

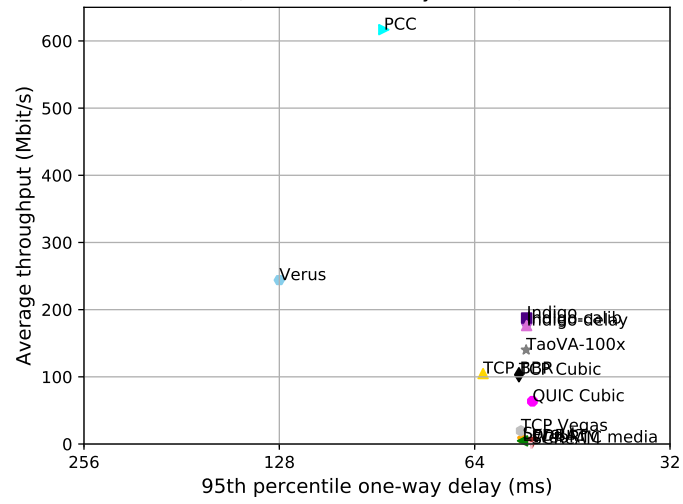
Pantheon Report

Generated at 2017-09-21 19:16:51 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

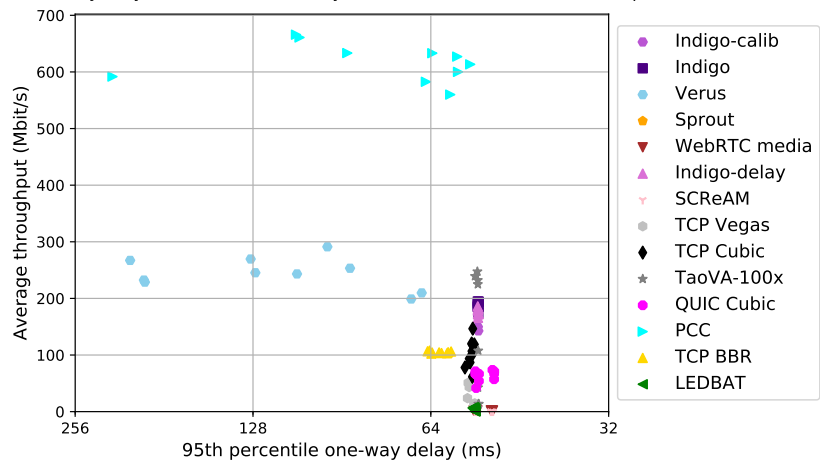
Git summary:

```
branch: indigos @ 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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	9	104.90	62.12	0.03
TCP Cubic	10	103.12	54.70	0.07
LEDBAT	10	4.66	54.01	0.46
PCC	10	616.80	88.33	0.91
QUIC Cubic	10	63.65	52.14	0.01
SCReAM	10	0.21	52.31	0.00
WebRTC media	10	2.26	52.18	0.00
Sprout	8	7.70	54.00	0.34
TaoVA-100x	8	140.13	53.32	0.02
TCP Vegas	10	19.59	54.31	0.14
Verus	10	243.95	128.02	1.14
Indigo	10	187.53	53.23	0.01
Indigo-calib	10	179.50	53.22	0.02
Indigo-delay	10	176.34	53.23	0.03

Run 1: Statistics of TCP BBR

Start at: 2017-09-21 16:09:23

End at: 2017-09-21 16:09:53

Below is generated by plot.py at 2017-09-21 18:36:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.17 Mbit/s

95th percentile per-packet one-way delay: 60.081 ms

Loss rate: 0.01%

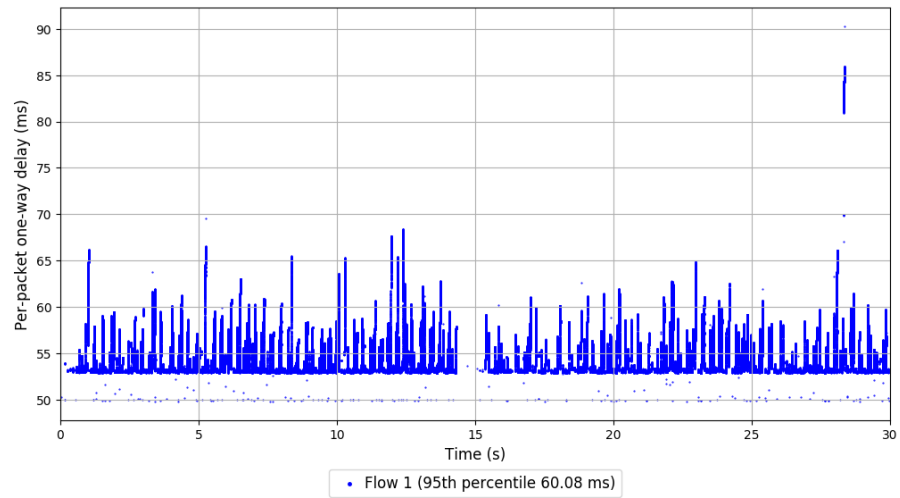
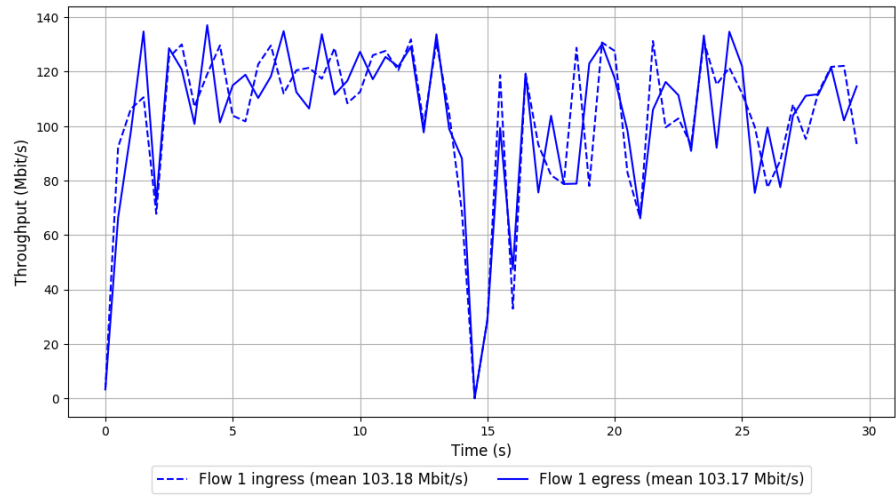
-- Flow 1:

Average throughput: 103.17 Mbit/s

95th percentile per-packet one-way delay: 60.081 ms

Loss rate: 0.01%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-21 16:19:48

End at: 2017-09-21 16:20:18

Below is generated by plot.py at 2017-09-21 18:36:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.68 Mbit/s

95th percentile per-packet one-way delay: 64.808 ms

Loss rate: 0.03%

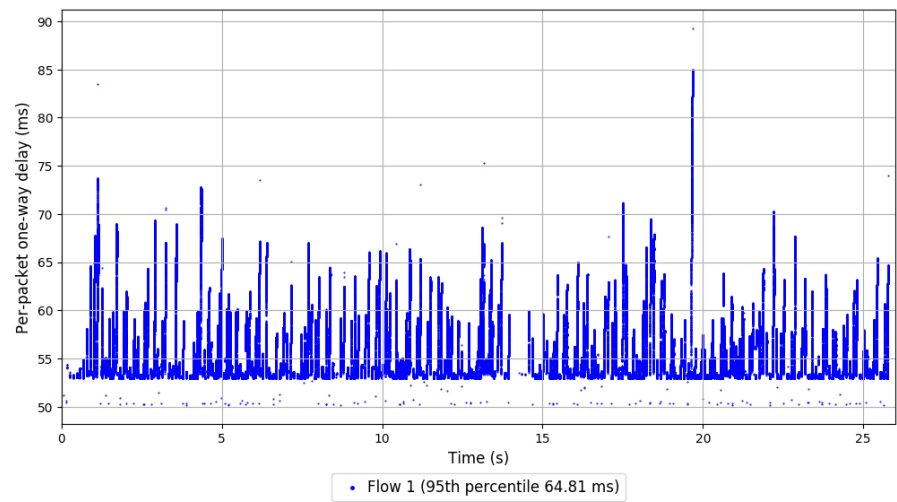
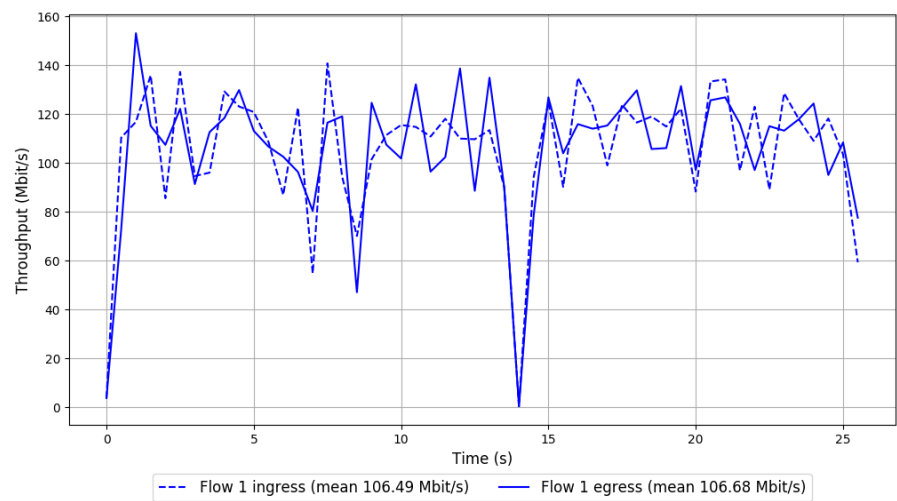
-- Flow 1:

Average throughput: 106.68 Mbit/s

95th percentile per-packet one-way delay: 64.808 ms

Loss rate: 0.03%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-21 16:30:09

End at: 2017-09-21 16:30:39

Below is generated by plot.py at 2017-09-21 18:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.84 Mbit/s

95th percentile per-packet one-way delay: 64.321 ms

Loss rate: 0.01%

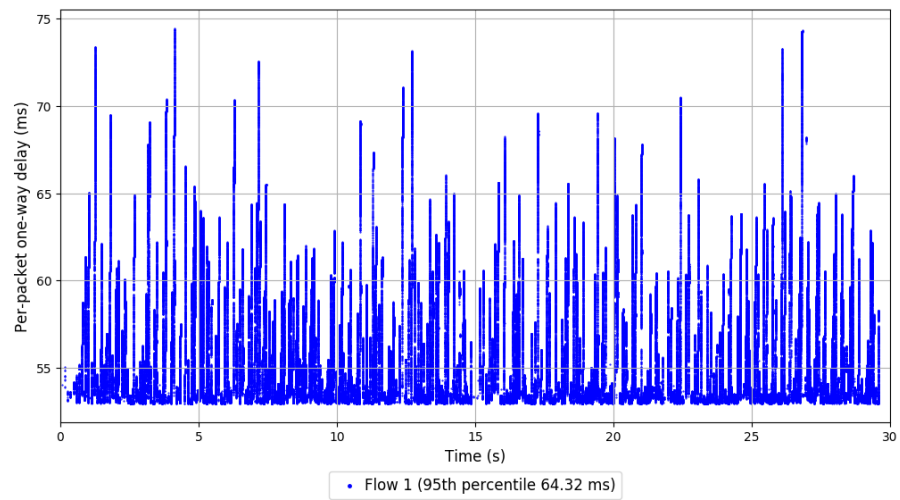
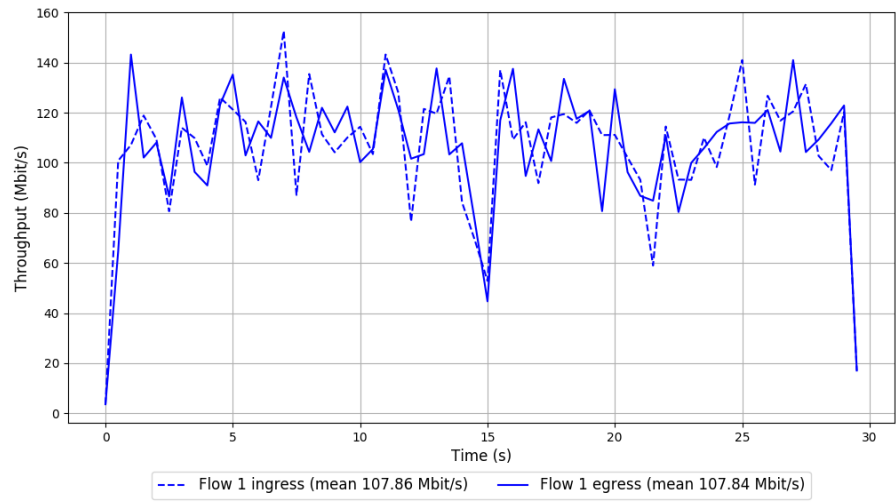
-- Flow 1:

Average throughput: 107.84 Mbit/s

95th percentile per-packet one-way delay: 64.321 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link

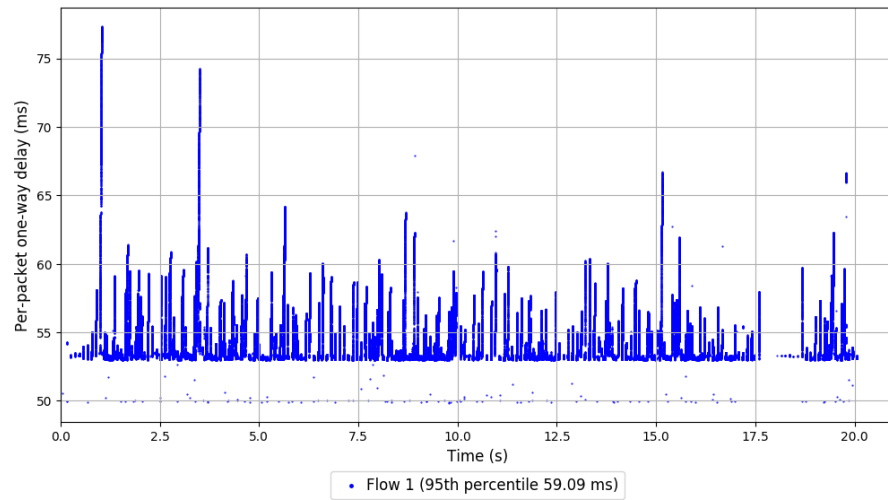
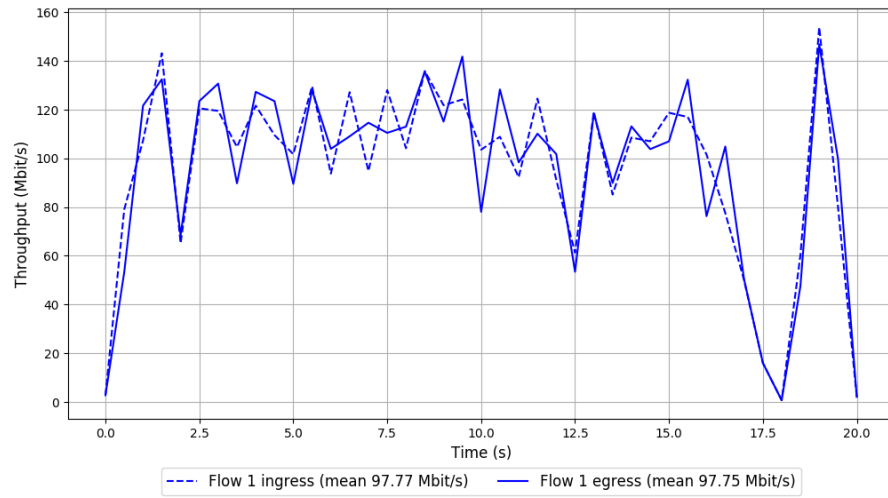


Run 4: Statistics of TCP BBR

Start at: 2017-09-21 16:40:42

End at: 2017-09-21 16:41:12

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

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

End at: 2017-09-21 16:51:31

Below is generated by plot.py at 2017-09-21 18:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.45 Mbit/s

95th percentile per-packet one-way delay: 63.688 ms

Loss rate: 0.03%

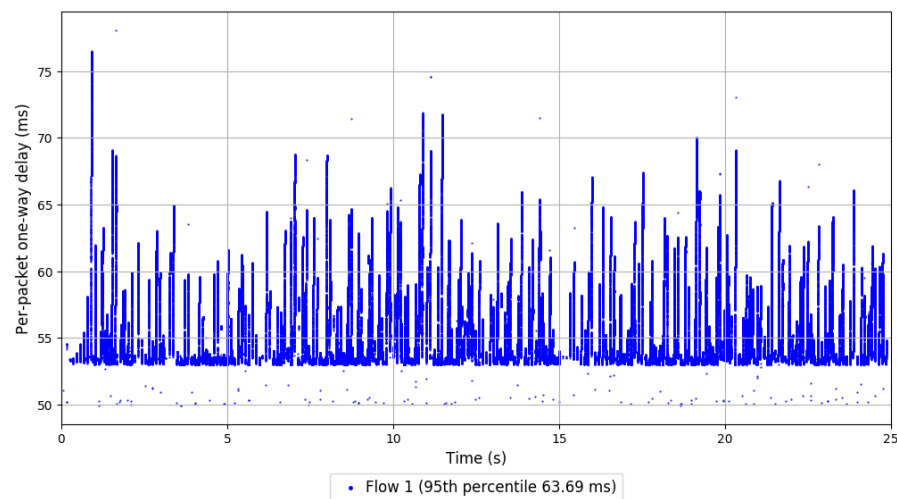
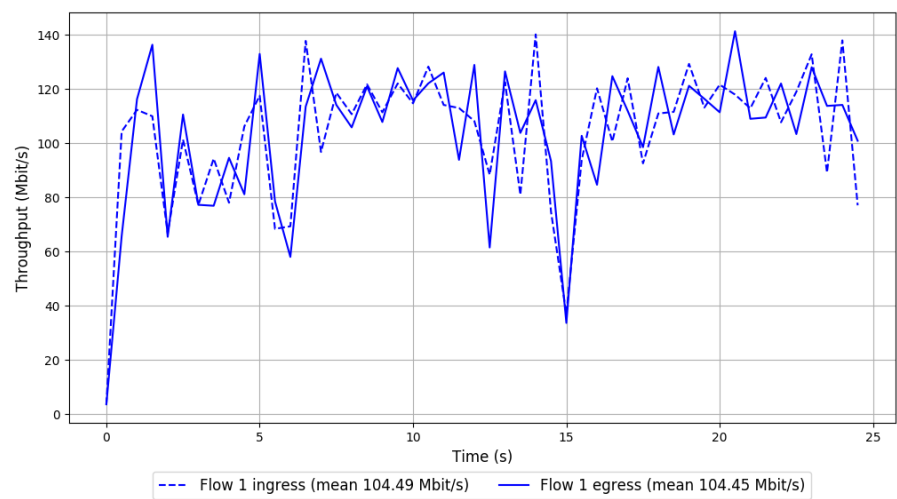
-- Flow 1:

Average throughput: 104.45 Mbit/s

95th percentile per-packet one-way delay: 63.688 ms

Loss rate: 0.03%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-21 17:01:32

End at: 2017-09-21 17:02:02

Below is generated by plot.py at 2017-09-21 18:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.56 Mbit/s

95th percentile per-packet one-way delay: 63.850 ms

Loss rate: 0.20%

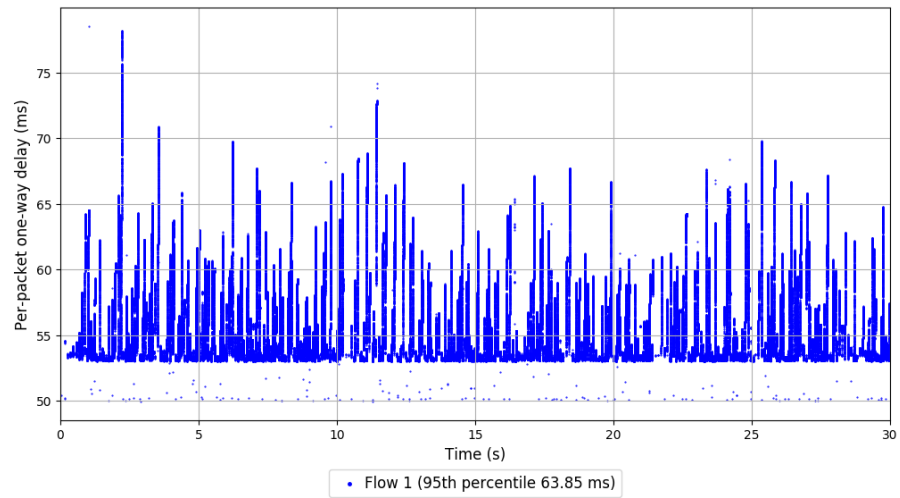
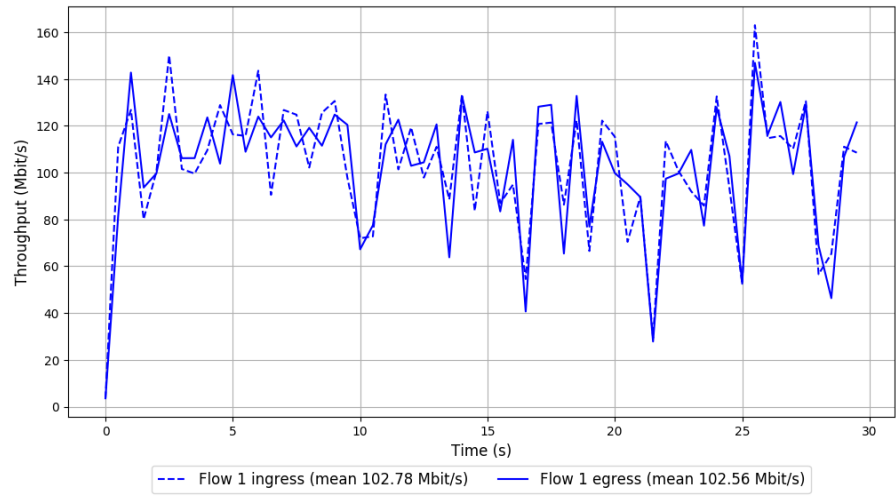
-- Flow 1:

Average throughput: 102.56 Mbit/s

95th percentile per-packet one-way delay: 63.850 ms

Loss rate: 0.20%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-21 17:12:11

End at: 2017-09-21 17:12:41

Below is generated by plot.py at 2017-09-21 18:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.64 Mbit/s

95th percentile per-packet one-way delay: 61.961 ms

Loss rate: 0.01%

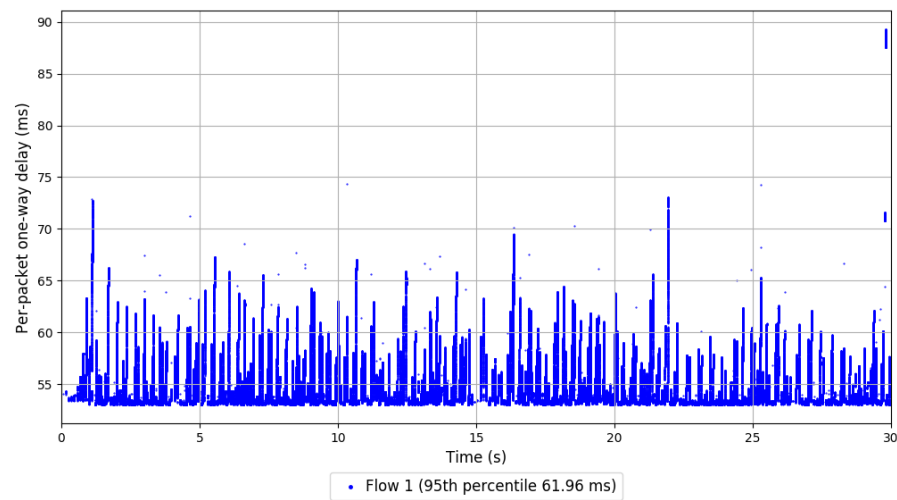
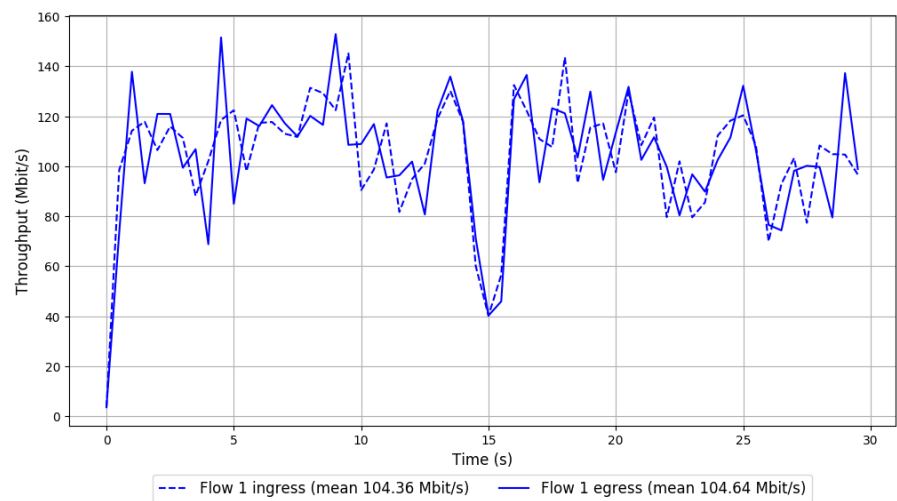
-- Flow 1:

Average throughput: 104.64 Mbit/s

95th percentile per-packet one-way delay: 61.961 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-21 17:22:30

End at: 2017-09-21 17:23:00

Below is generated by plot.py at 2017-09-21 18:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.99 Mbit/s

95th percentile per-packet one-way delay: 59.830 ms

Loss rate: 0.01%

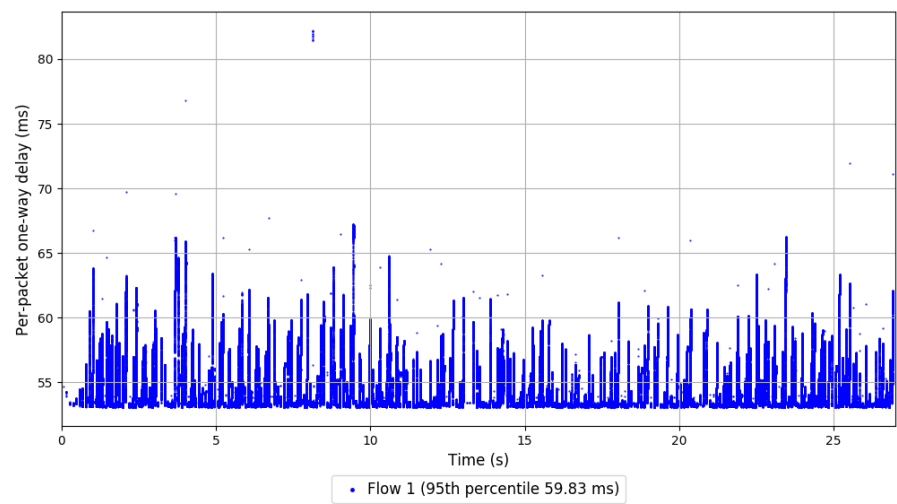
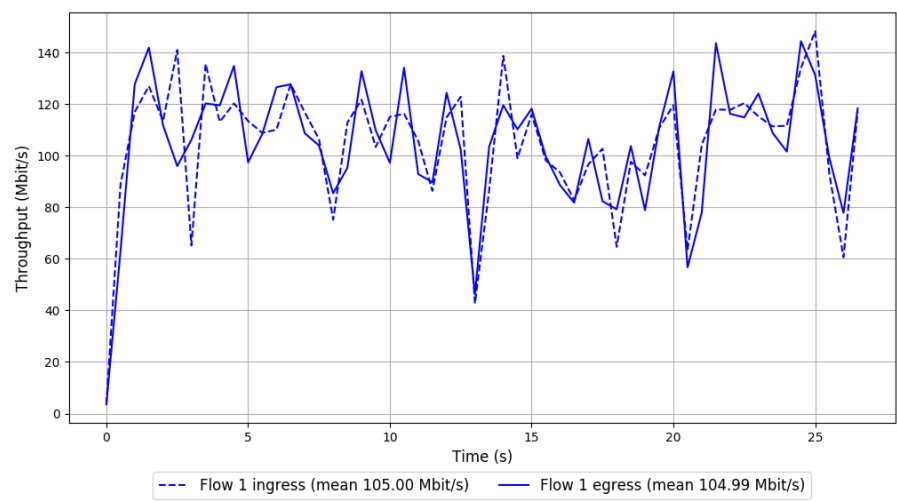
-- Flow 1:

Average throughput: 104.99 Mbit/s

95th percentile per-packet one-way delay: 59.830 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-21 17:32:59

End at: 2017-09-21 17:33:29

Below is generated by plot.py at 2017-09-21 18:38:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.27 Mbit/s

95th percentile per-packet one-way delay: 59.140 ms

Loss rate: 0.00%

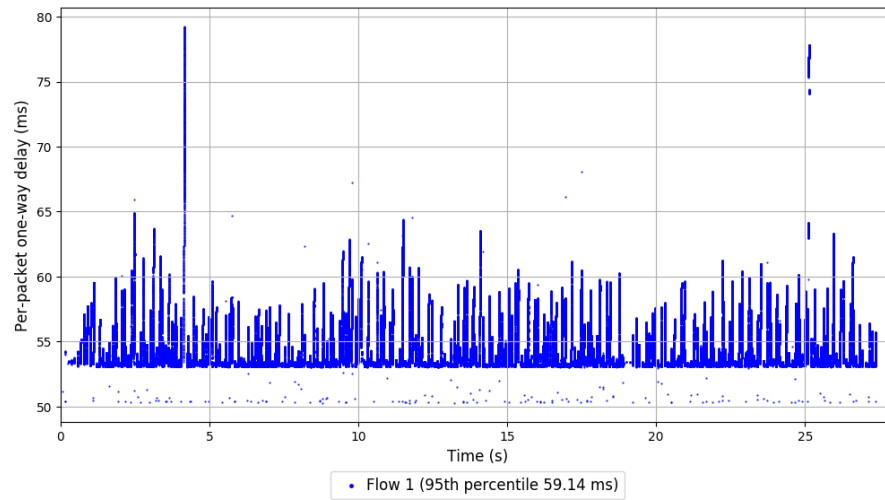
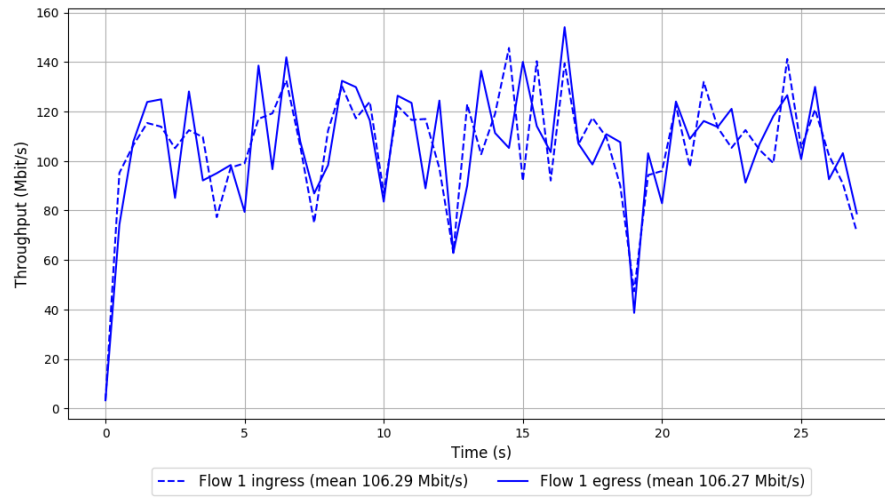
-- Flow 1:

Average throughput: 106.27 Mbit/s

95th percentile per-packet one-way delay: 59.140 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-21 17:43:46

End at: 2017-09-21 17:44:16

Below is generated by plot.py at 2017-09-21 18:38:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.47 Mbit/s

95th percentile per-packet one-way delay: 61.387 ms

Loss rate: 0.01%

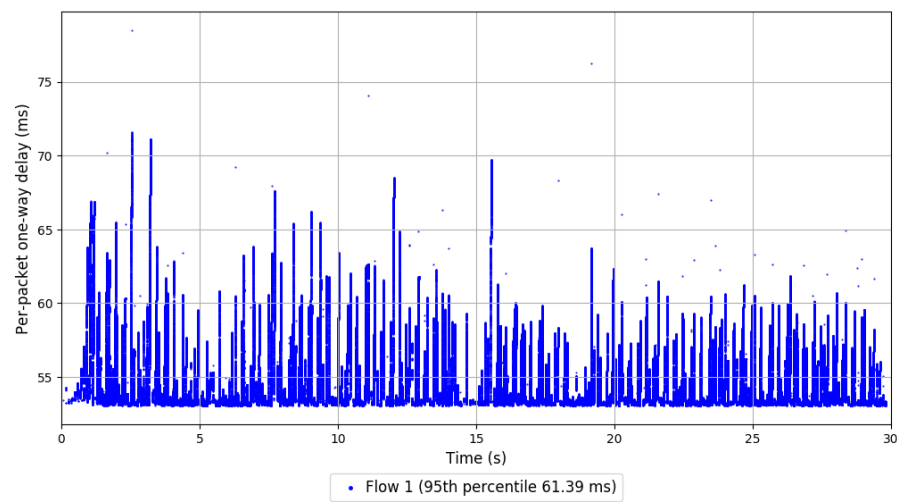
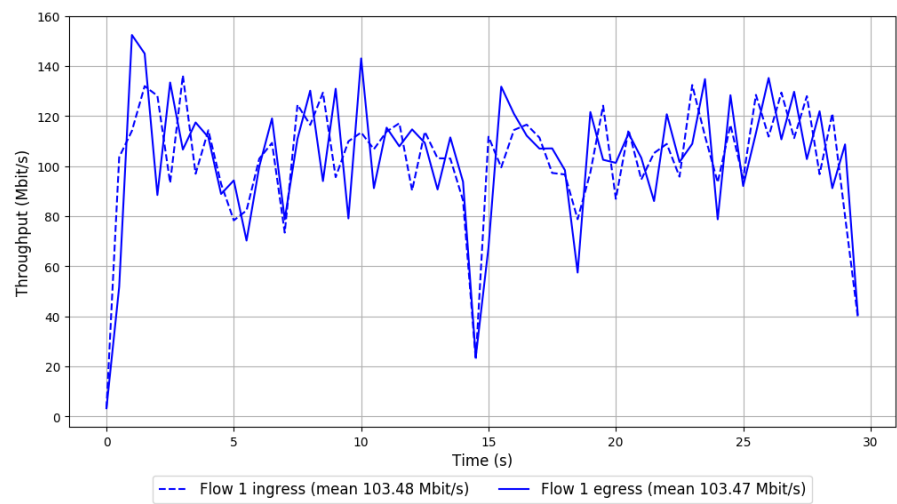
-- Flow 1:

Average throughput: 103.47 Mbit/s

95th percentile per-packet one-way delay: 61.387 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-21 16:12:28

End at: 2017-09-21 16:12:58

Below is generated by plot.py at 2017-09-21 18:38:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.29 Mbit/s

95th percentile per-packet one-way delay: 54.590 ms

Loss rate: 0.00%

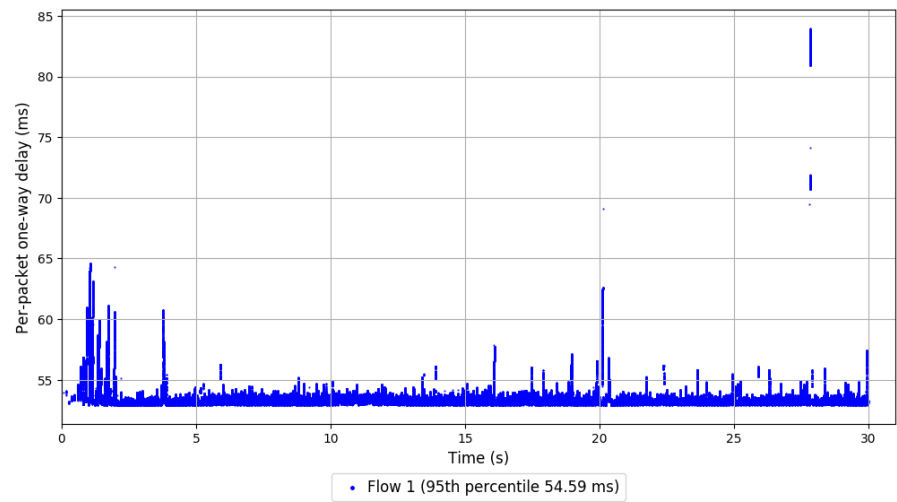
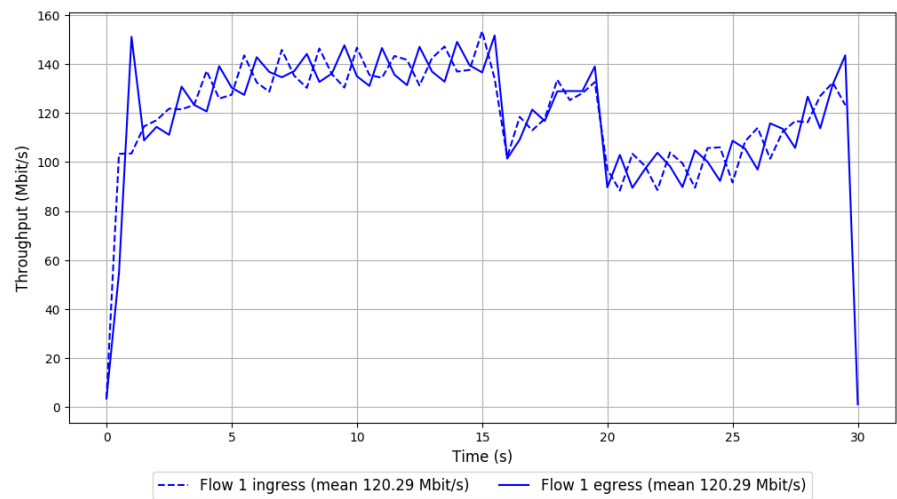
-- Flow 1:

Average throughput: 120.29 Mbit/s

95th percentile per-packet one-way delay: 54.590 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-21 16:22:50

End at: 2017-09-21 16:23:20

Below is generated by plot.py at 2017-09-21 18:38:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.97 Mbit/s

95th percentile per-packet one-way delay: 56.027 ms

Loss rate: 0.51%

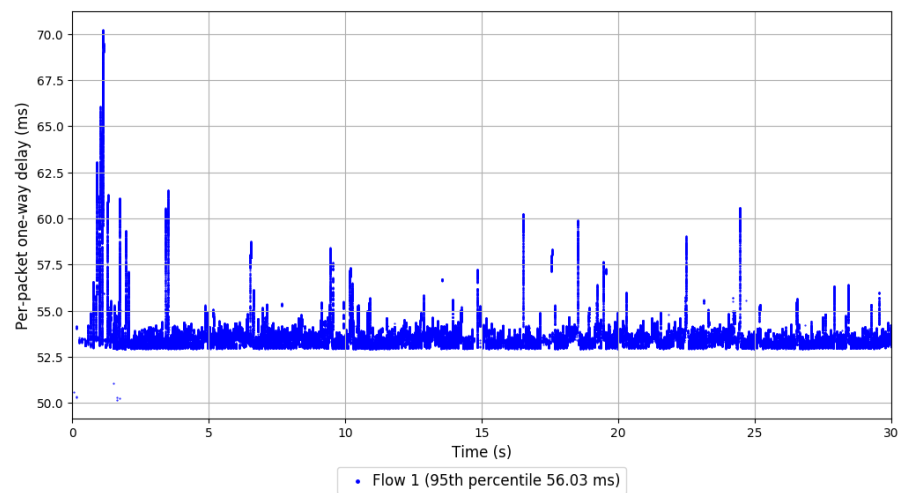
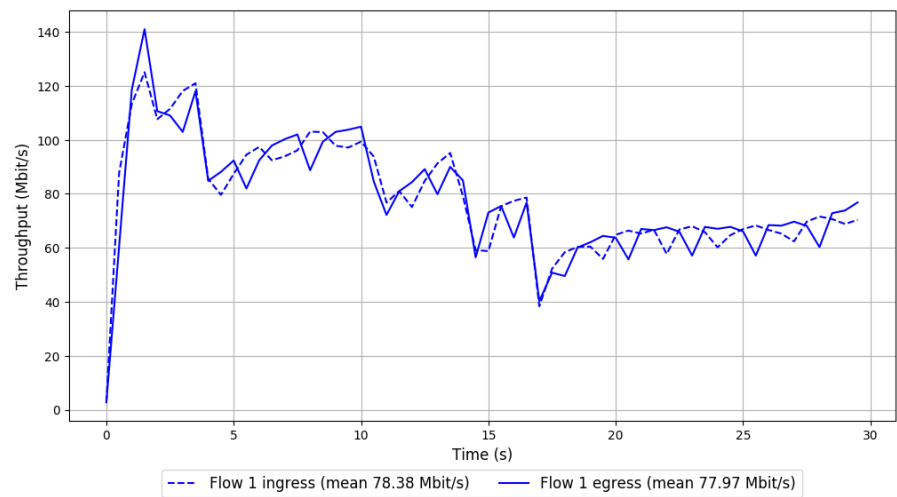
-- Flow 1:

Average throughput: 77.97 Mbit/s

95th percentile per-packet one-way delay: 56.027 ms

Loss rate: 0.51%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-21 16:33:13

End at: 2017-09-21 16:33:43

Below is generated by plot.py at 2017-09-21 18:38:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.59 Mbit/s

95th percentile per-packet one-way delay: 55.109 ms

Loss rate: 0.02%

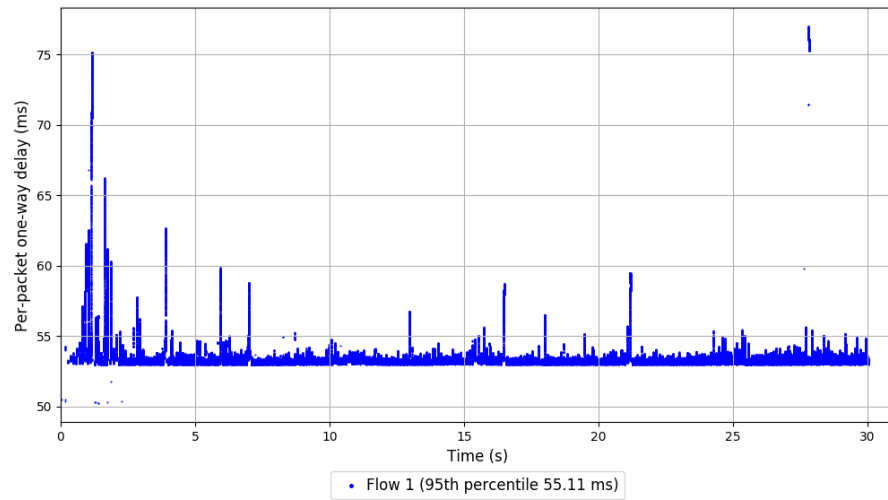
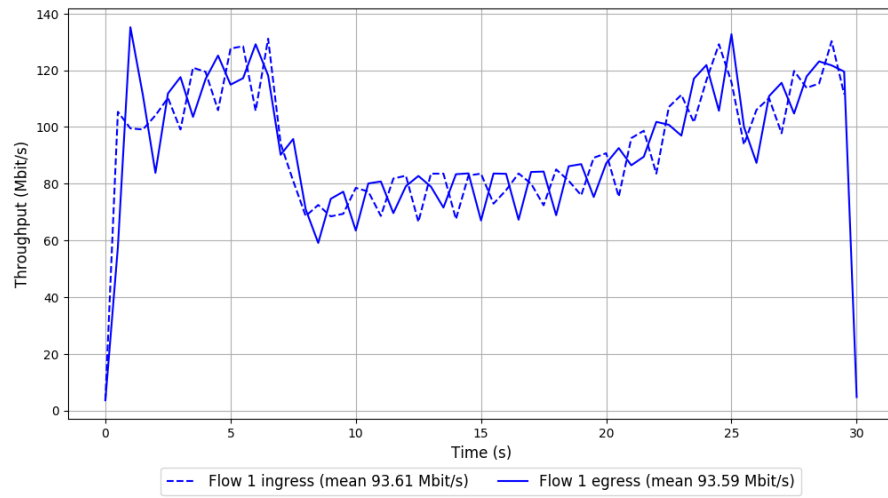
-- Flow 1:

Average throughput: 93.59 Mbit/s

95th percentile per-packet one-way delay: 55.109 ms

Loss rate: 0.02%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-21 16:43:44

End at: 2017-09-21 16:44:14

Below is generated by plot.py at 2017-09-21 18:38:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.56 Mbit/s

95th percentile per-packet one-way delay: 54.425 ms

Loss rate: 0.02%

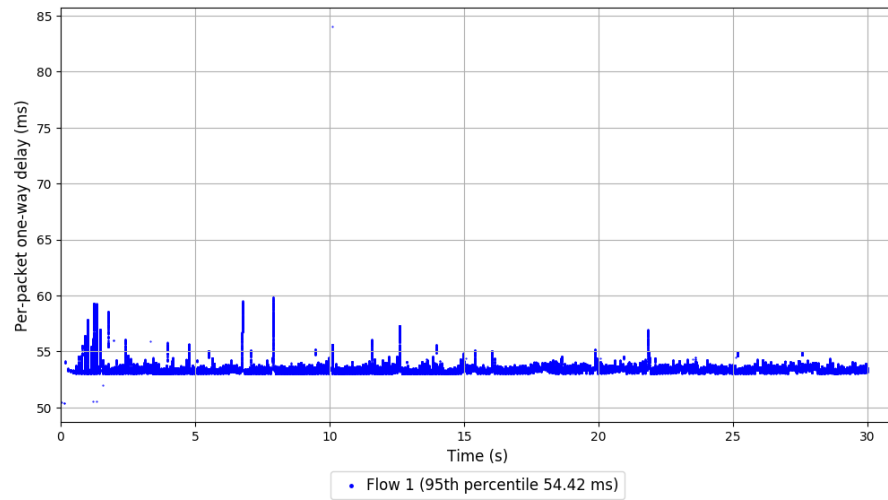
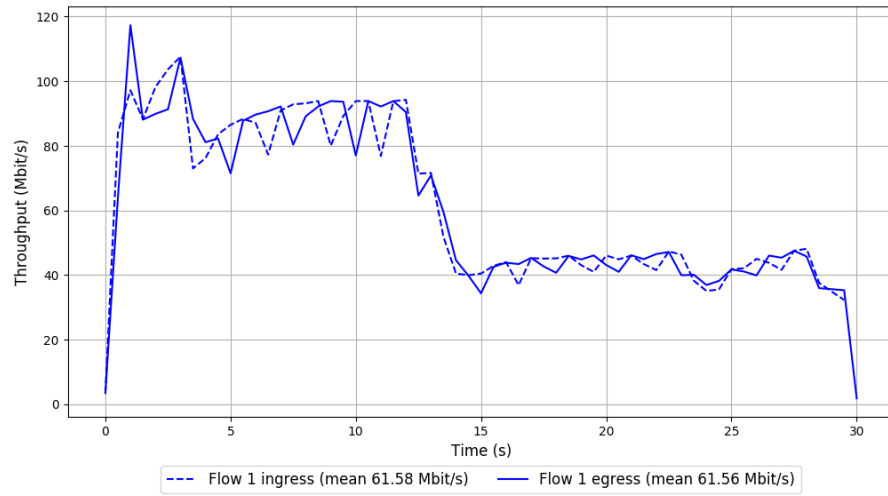
-- Flow 1:

Average throughput: 61.56 Mbit/s

95th percentile per-packet one-way delay: 54.425 ms

Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-21 16:54:05

End at: 2017-09-21 16:54:35

Below is generated by plot.py at 2017-09-21 18:38:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.92 Mbit/s

95th percentile per-packet one-way delay: 54.910 ms

Loss rate: 0.03%

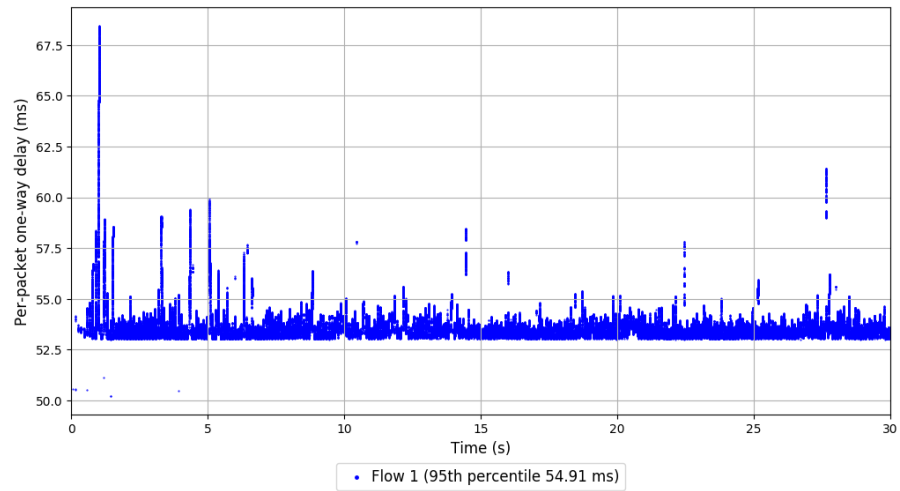
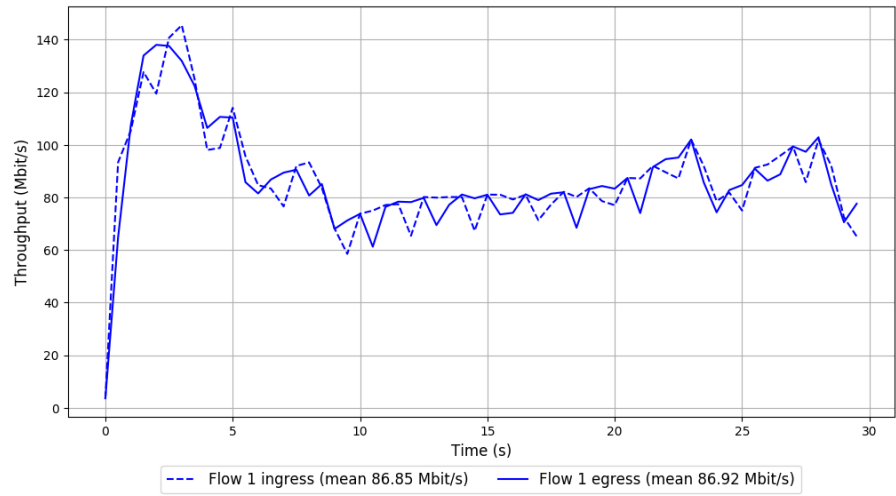
-- Flow 1:

Average throughput: 86.92 Mbit/s

95th percentile per-packet one-way delay: 54.910 ms

Loss rate: 0.03%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-21 17:04:36

End at: 2017-09-21 17:05:06

Below is generated by plot.py at 2017-09-21 18:38:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.05 Mbit/s

95th percentile per-packet one-way delay: 54.496 ms

Loss rate: 0.03%

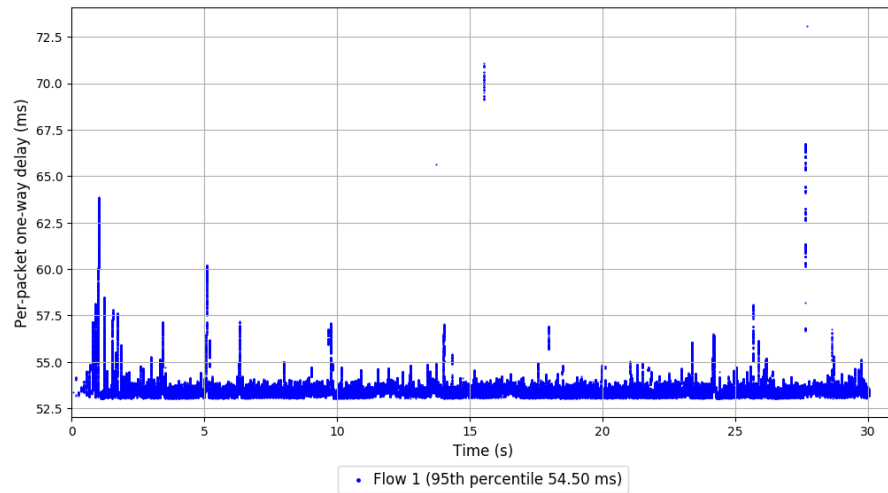
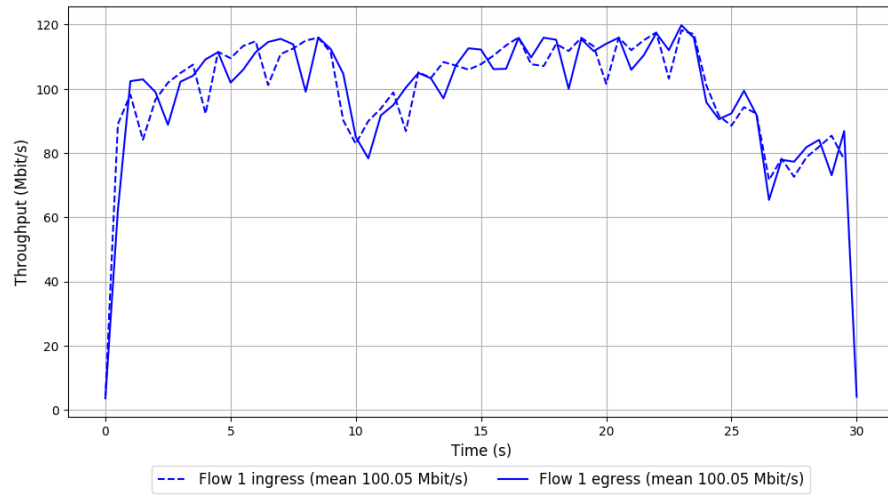
-- Flow 1:

Average throughput: 100.05 Mbit/s

95th percentile per-packet one-way delay: 54.496 ms

Loss rate: 0.03%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

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

End at: 2017-09-21 17:15:44

Below is generated by plot.py at 2017-09-21 18:39:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.78 Mbit/s

95th percentile per-packet one-way delay: 54.527 ms

Loss rate: 0.03%

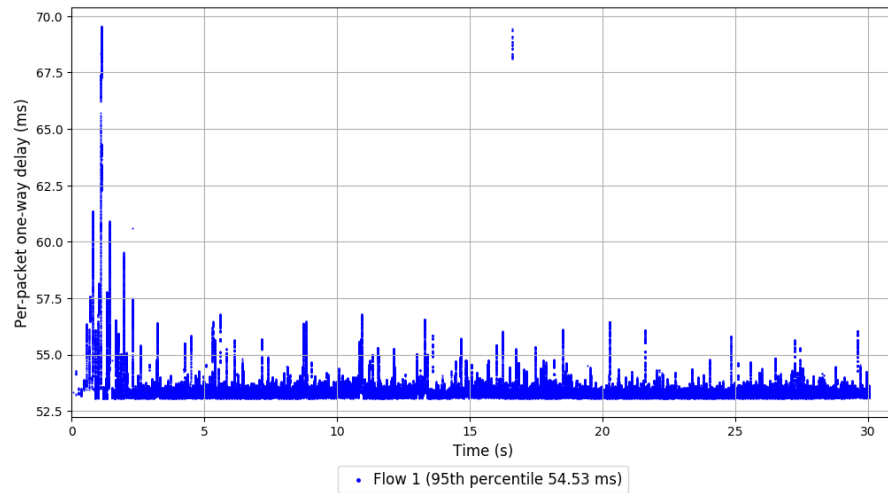
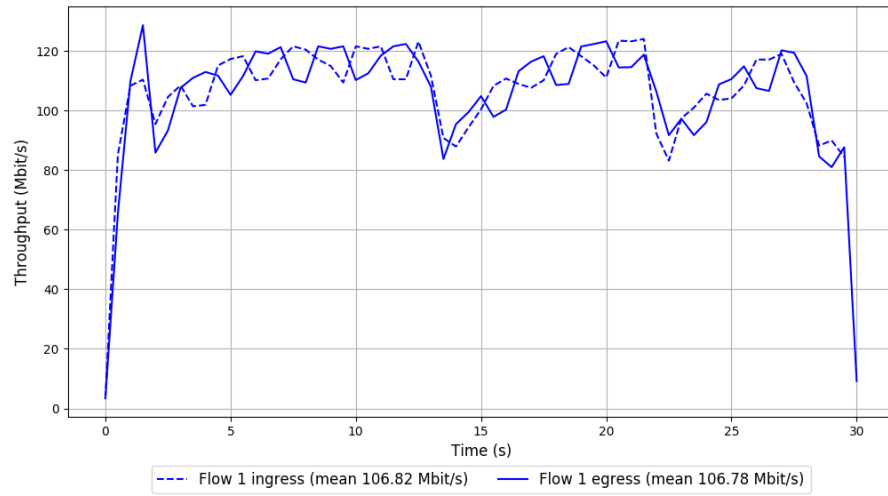
-- Flow 1:

Average throughput: 106.78 Mbit/s

95th percentile per-packet one-way delay: 54.527 ms

Loss rate: 0.03%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-21 17:25:34

End at: 2017-09-21 17:26:04

Below is generated by plot.py at 2017-09-21 18:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.58 Mbit/s

95th percentile per-packet one-way delay: 54.353 ms

Loss rate: 0.01%

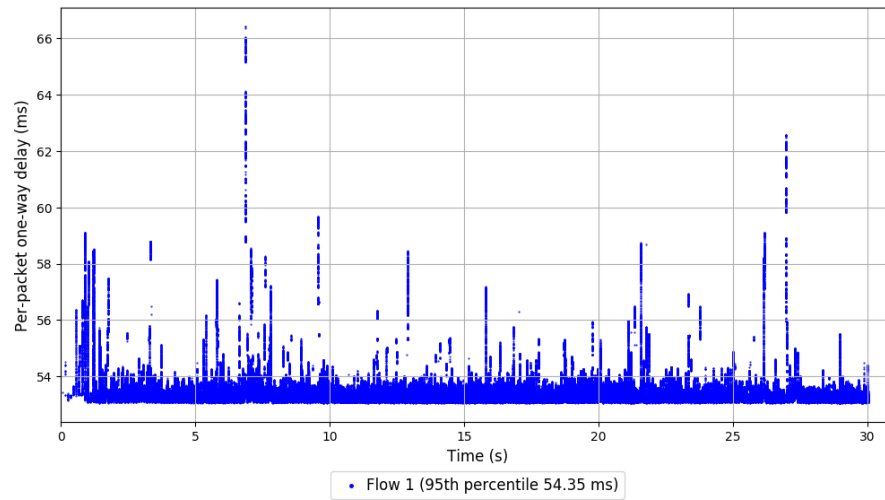
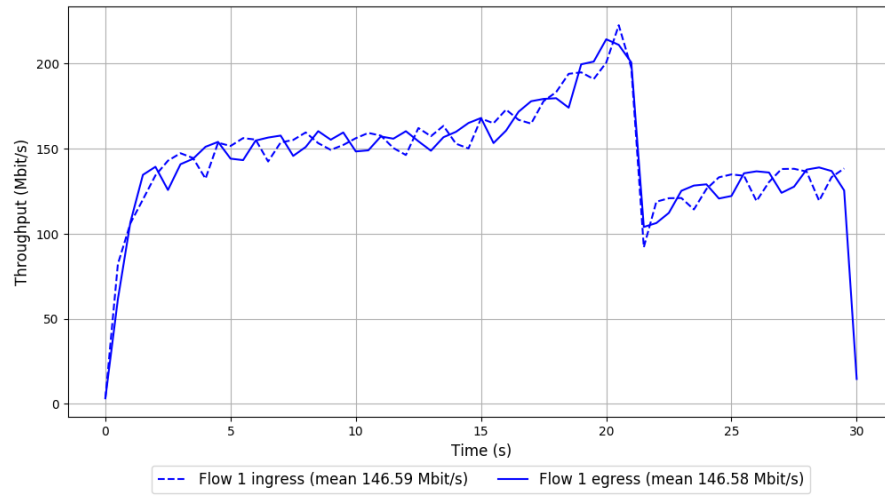
-- Flow 1:

Average throughput: 146.58 Mbit/s

95th percentile per-packet one-way delay: 54.353 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-21 17:36:05

End at: 2017-09-21 17:36:35

Below is generated by plot.py at 2017-09-21 18:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.78 Mbit/s

95th percentile per-packet one-way delay: 54.011 ms

Loss rate: 0.01%

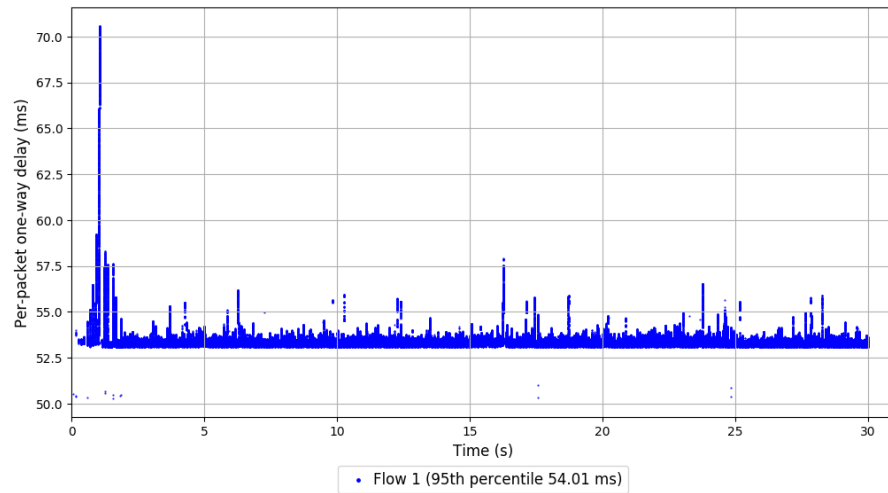
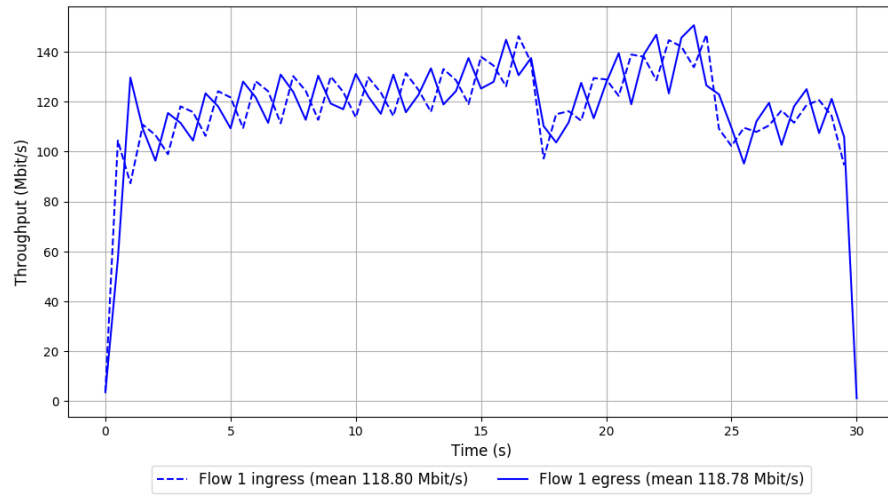
-- Flow 1:

Average throughput: 118.78 Mbit/s

95th percentile per-packet one-way delay: 54.011 ms

Loss rate: 0.01%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-21 17:46:51

End at: 2017-09-21 17:47:21

Below is generated by plot.py at 2017-09-21 18:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.65 Mbit/s

95th percentile per-packet one-way delay: 54.513 ms

Loss rate: 0.03%

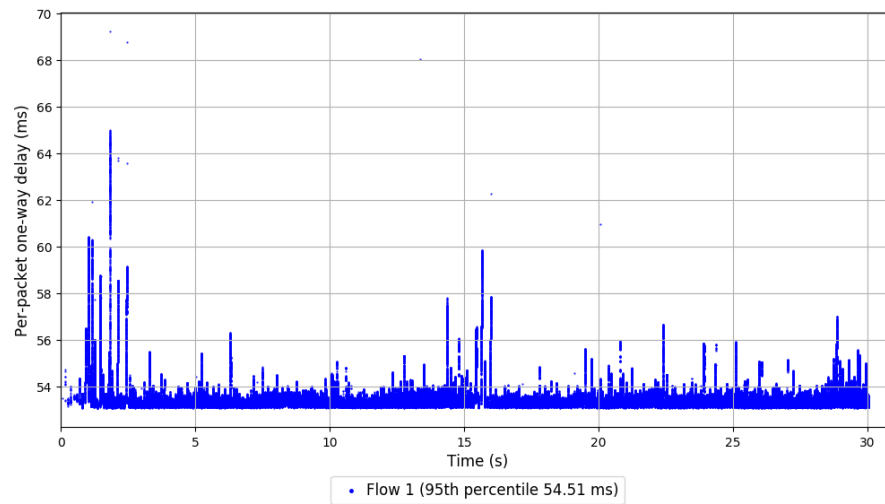
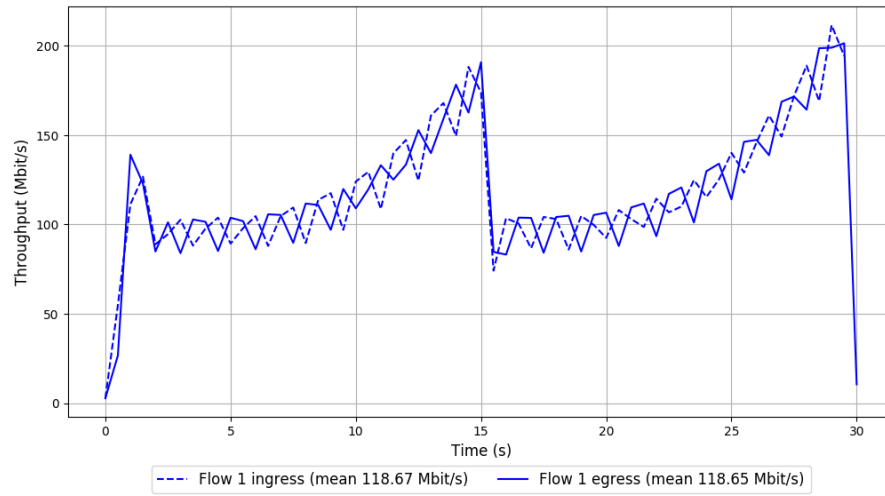
-- Flow 1:

Average throughput: 118.65 Mbit/s

95th percentile per-packet one-way delay: 54.513 ms

Loss rate: 0.03%

Run 10: Report of TCP Cubic — Data Link

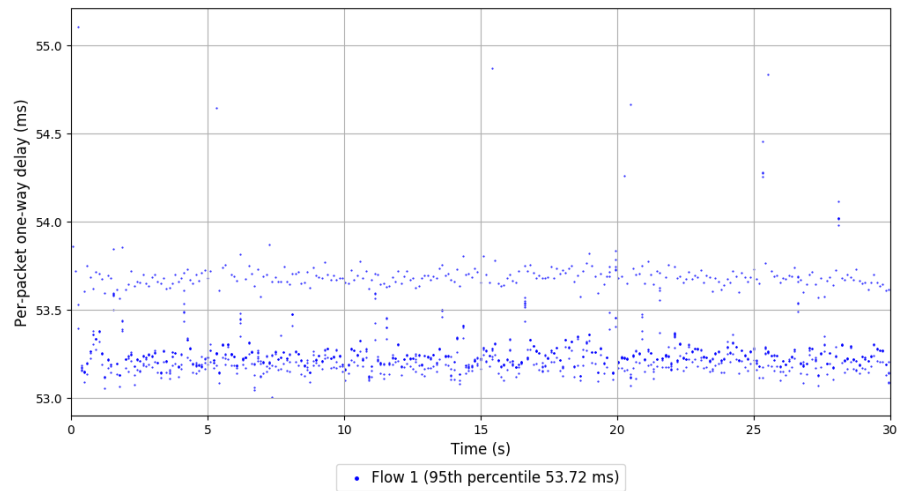
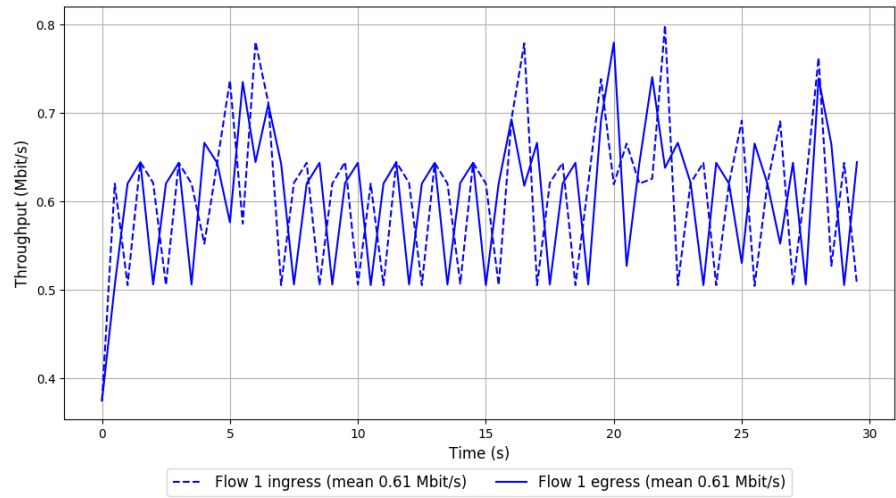


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-21 16:08:45
End at: 2017-09-21 16:09:16

# Below is generated by plot.py at 2017-09-21 18:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 53.718 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 53.718 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

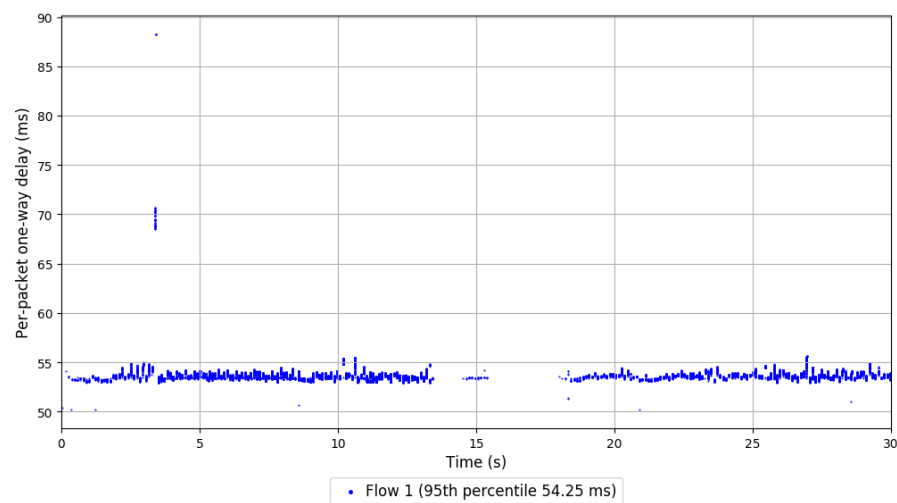
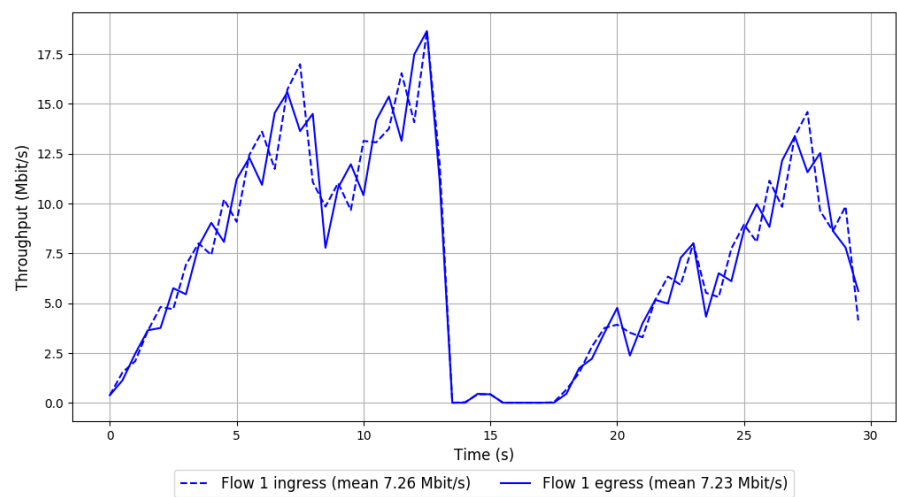


```
Run 2: Statistics of LEDBAT

Start at: 2017-09-21 16:19:10
End at: 2017-09-21 16:19:40

# Below is generated by plot.py at 2017-09-21 18:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 54.249 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 54.249 ms
Loss rate: 0.48%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-21 16:29:31

End at: 2017-09-21 16:30:01

Below is generated by plot.py at 2017-09-21 18:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 54.127 ms

Loss rate: 1.56%

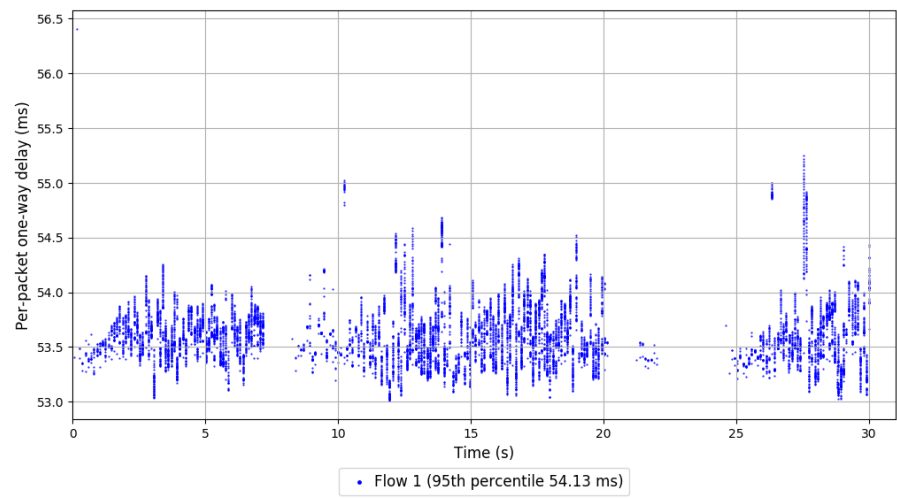
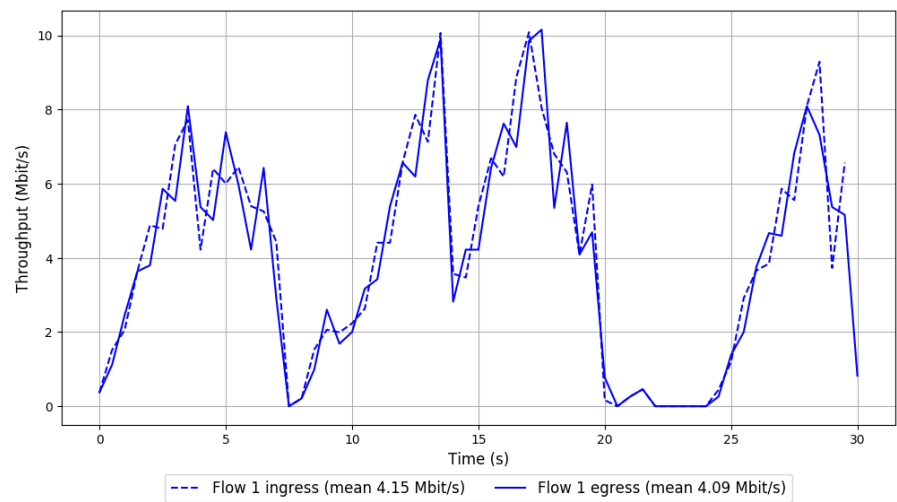
-- Flow 1:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 54.127 ms

Loss rate: 1.56%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-21 16:40:05

End at: 2017-09-21 16:40:35

Below is generated by plot.py at 2017-09-21 18:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.78 Mbit/s

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

Loss rate: 0.00%

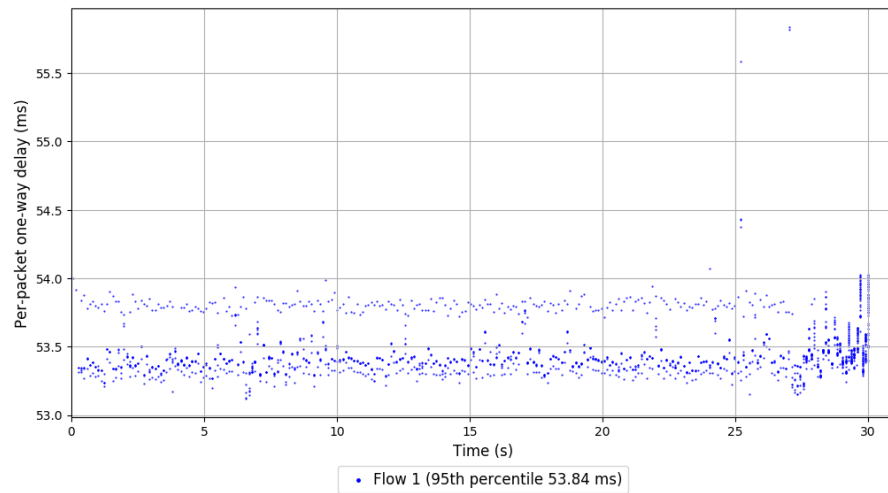
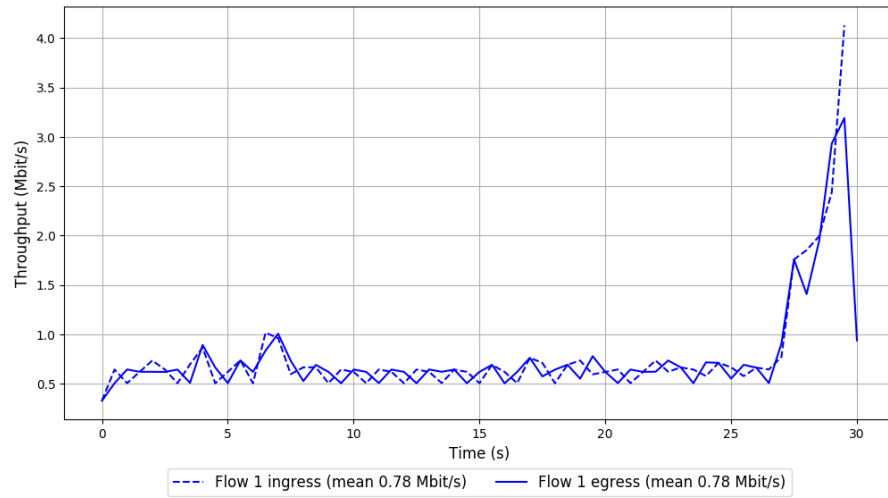
-- Flow 1:

Average throughput: 0.78 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-21 16:50:24

End at: 2017-09-21 16:50:54

Below is generated by plot.py at 2017-09-21 18:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 53.896 ms

Loss rate: 0.00%

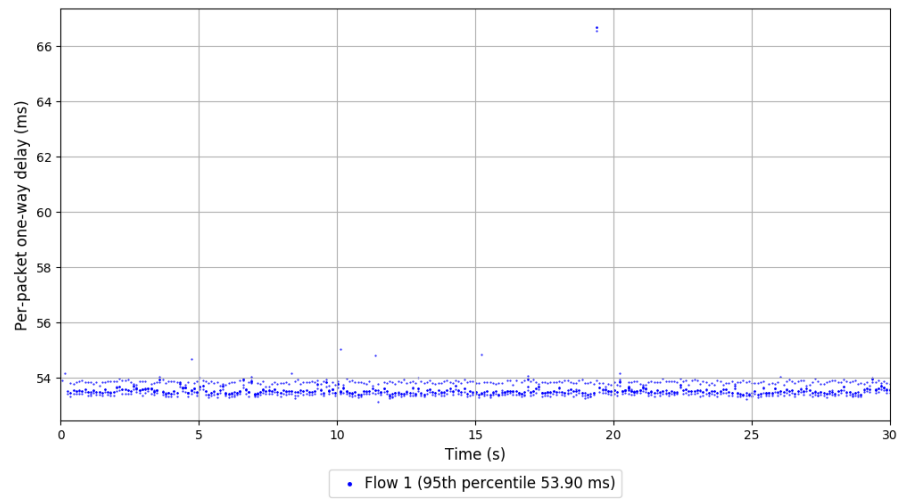
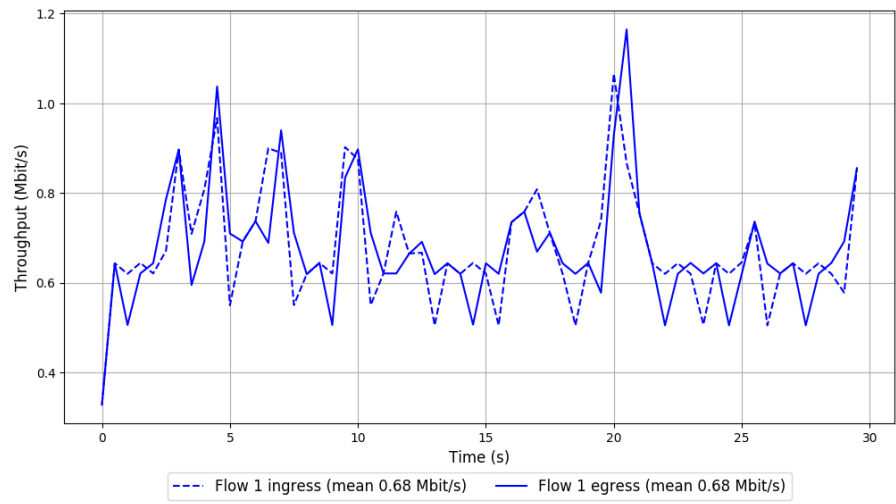
-- Flow 1:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 53.896 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-21 17:00:54

End at: 2017-09-21 17:01:24

Below is generated by plot.py at 2017-09-21 18:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 54.401 ms

Loss rate: 0.57%

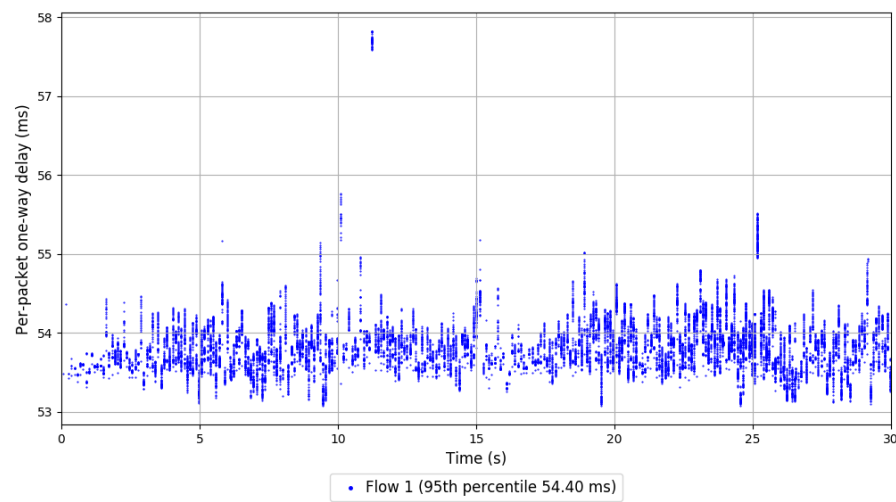
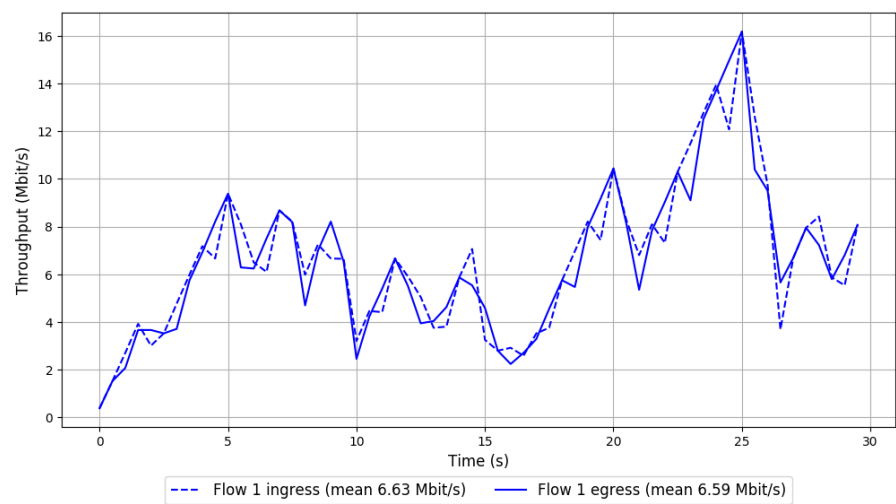
-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 54.401 ms

Loss rate: 0.57%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-21 17:11:32

End at: 2017-09-21 17:12:03

Below is generated by plot.py at 2017-09-21 18:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 54.030 ms

Loss rate: 0.45%

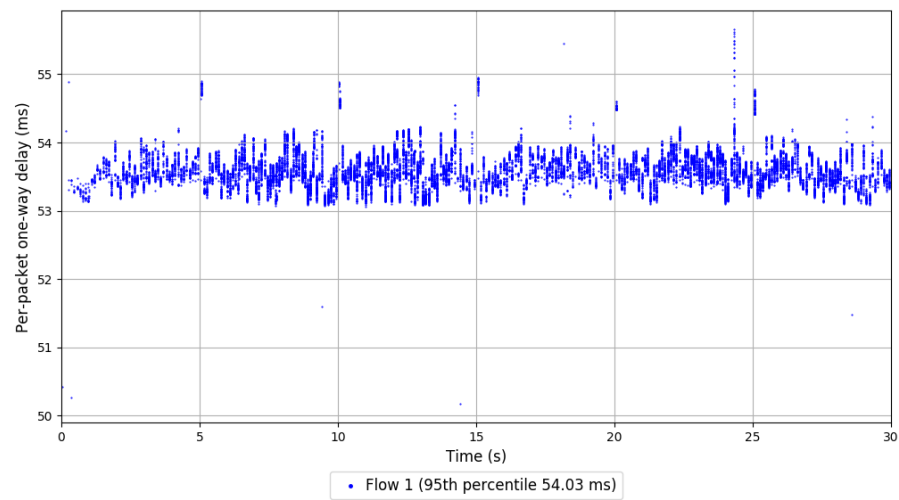
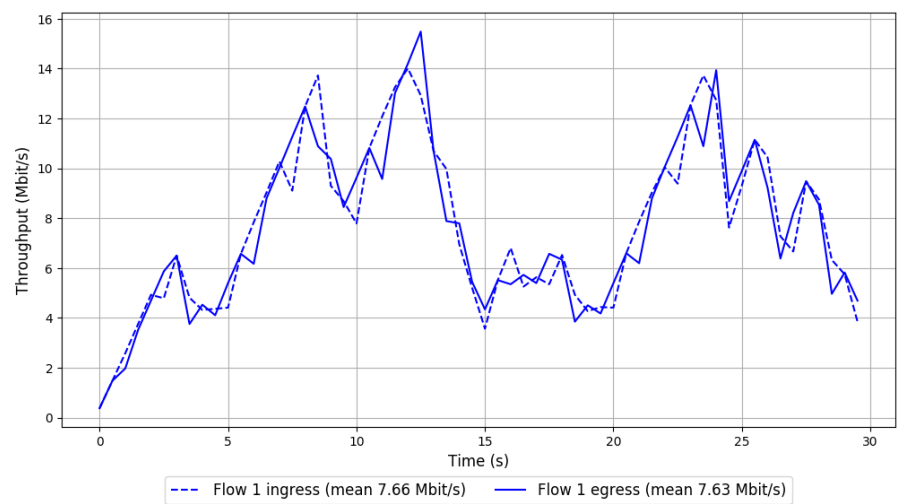
-- Flow 1:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 54.030 ms

Loss rate: 0.45%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-21 17:21:52

End at: 2017-09-21 17:22:22

Below is generated by plot.py at 2017-09-21 18:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.52 Mbit/s

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

Loss rate: 0.77%

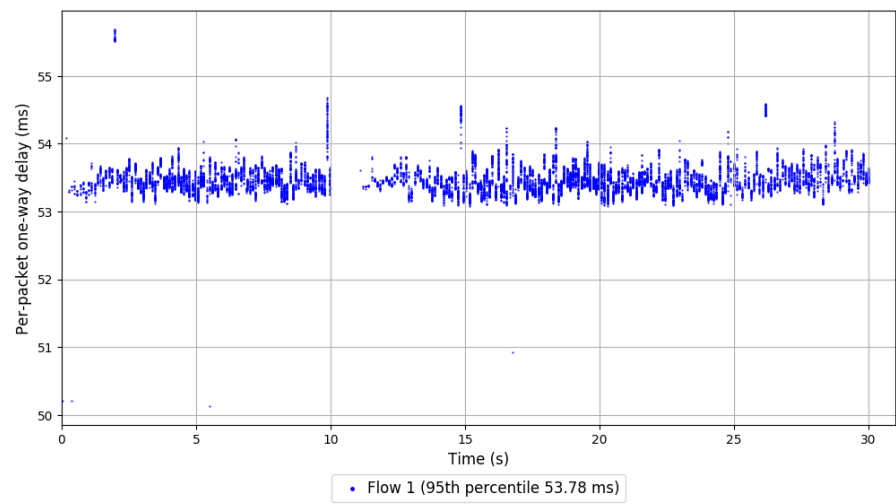
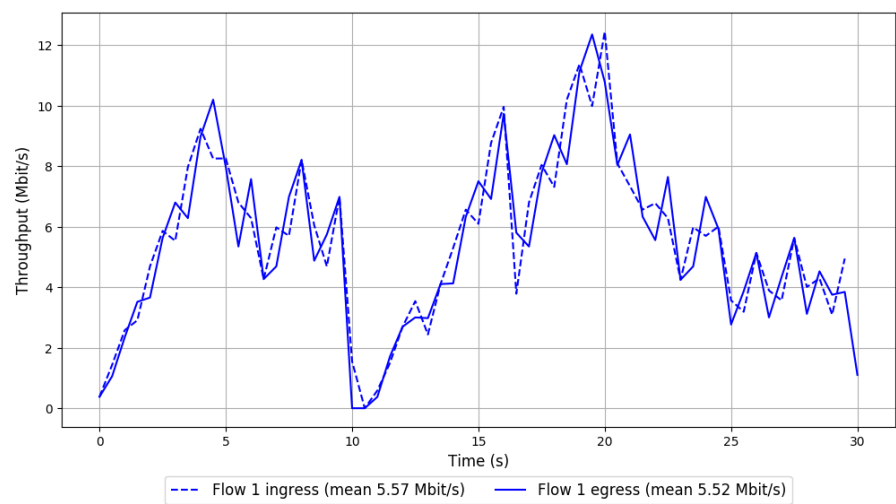
-- Flow 1:

Average throughput: 5.52 Mbit/s

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

Loss rate: 0.77%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-21 17:32:20

End at: 2017-09-21 17:32:50

Below is generated by plot.py at 2017-09-21 18:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.12 Mbit/s

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

Loss rate: 0.12%

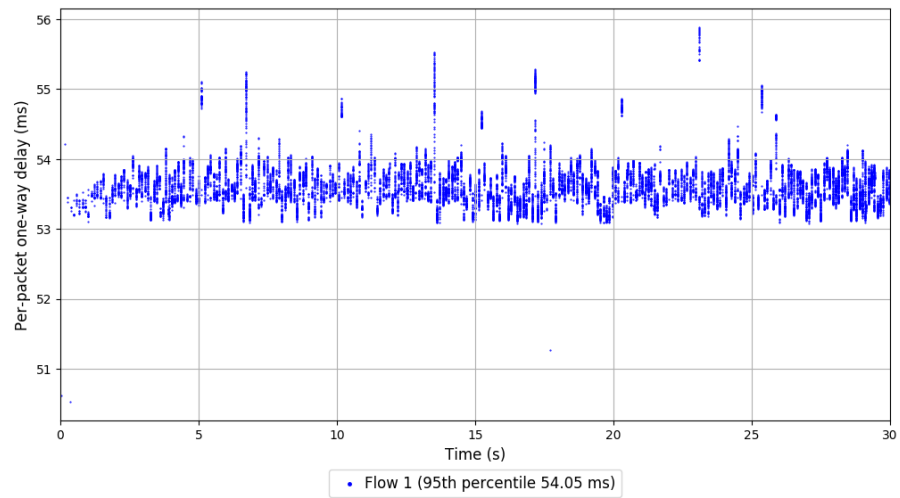
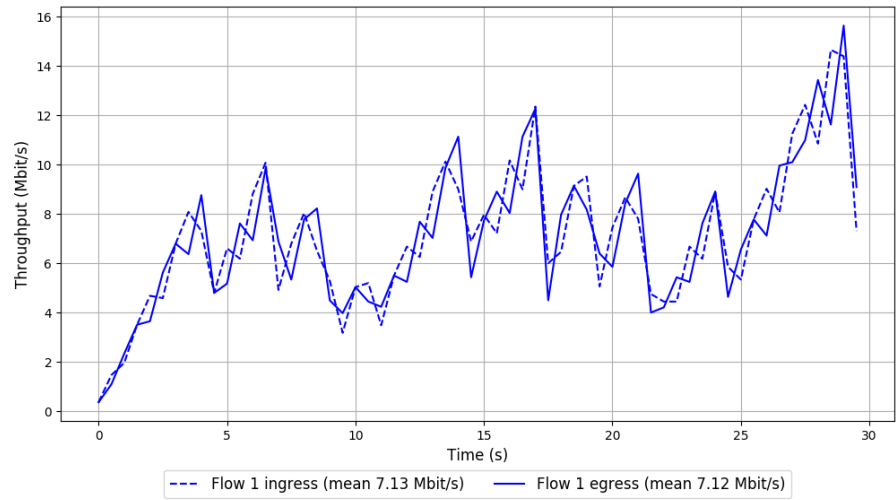
-- Flow 1:

Average throughput: 7.12 Mbit/s

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

Loss rate: 0.12%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

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

End at: 2017-09-21 17:43:39

Below is generated by plot.py at 2017-09-21 18:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 54.012 ms

Loss rate: 0.63%

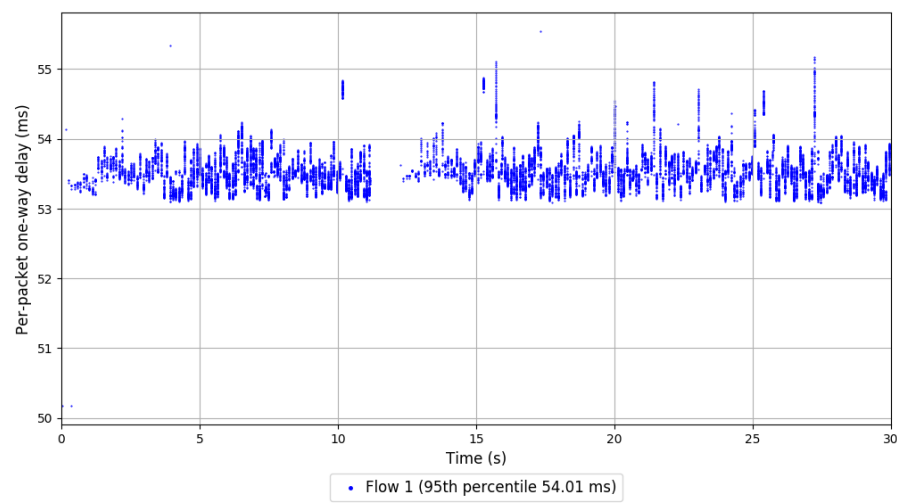
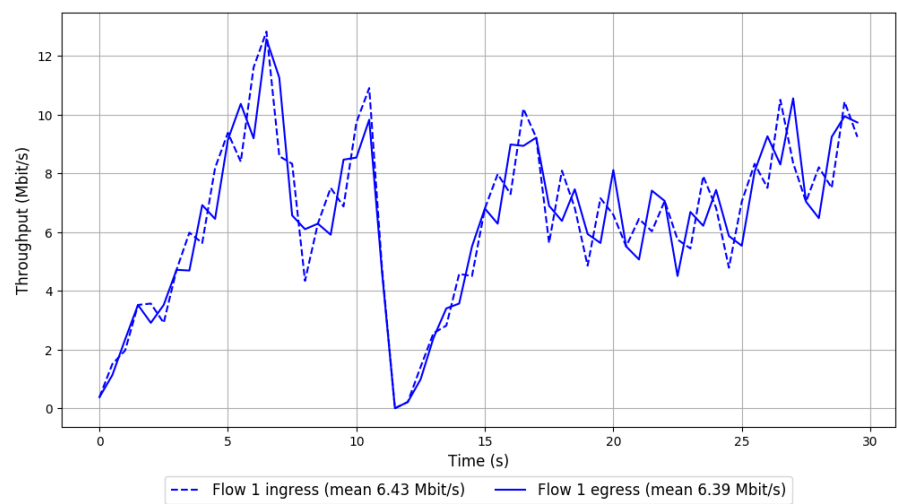
-- Flow 1:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 54.012 ms

Loss rate: 0.63%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2017-09-21 16:11:24

End at: 2017-09-21 16:11:54

Below is generated by plot.py at 2017-09-21 18:50:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 660.85 Mbit/s

95th percentile per-packet one-way delay: 106.749 ms

Loss rate: 0.15%

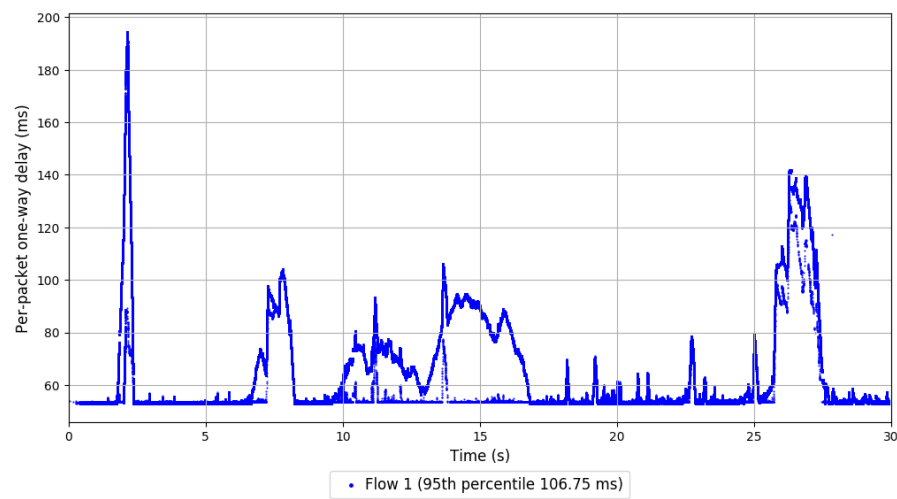
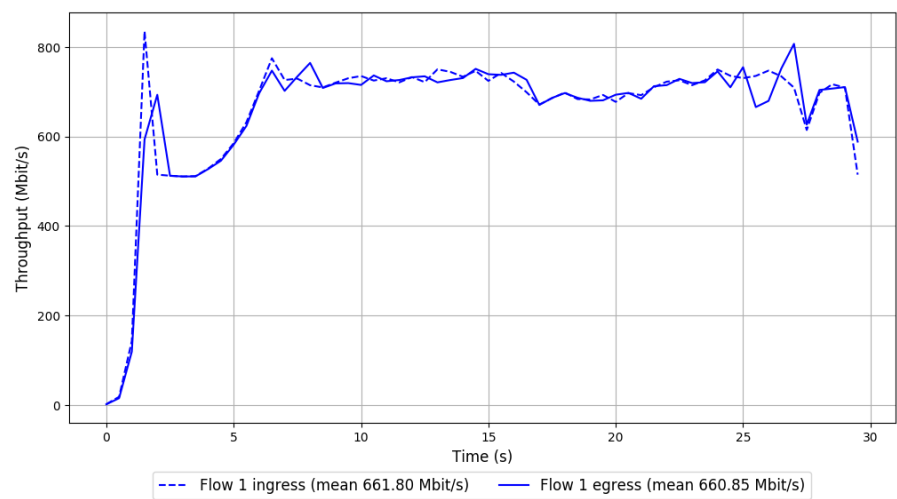
-- Flow 1:

Average throughput: 660.85 Mbit/s

95th percentile per-packet one-way delay: 106.749 ms

Loss rate: 0.15%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-21 16:21:50

End at: 2017-09-21 16:22:20

Below is generated by plot.py at 2017-09-21 18:50:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 559.97 Mbit/s

95th percentile per-packet one-way delay: 59.332 ms

Loss rate: 0.32%

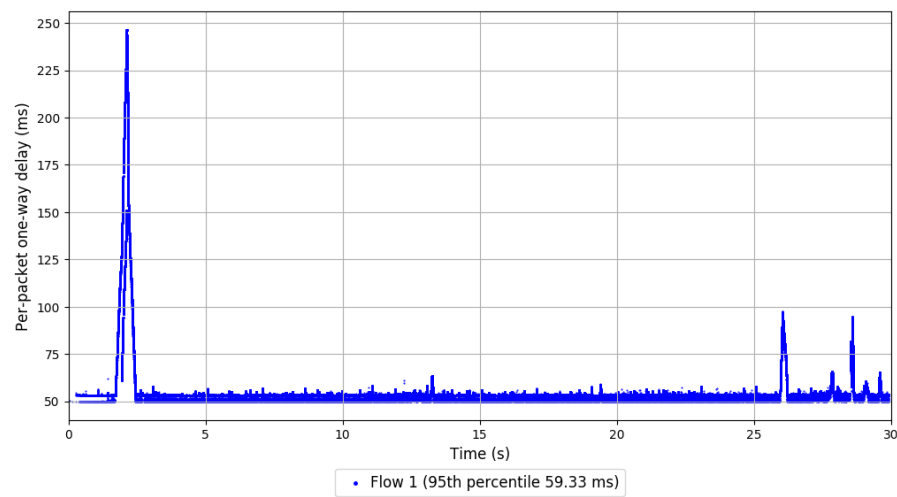
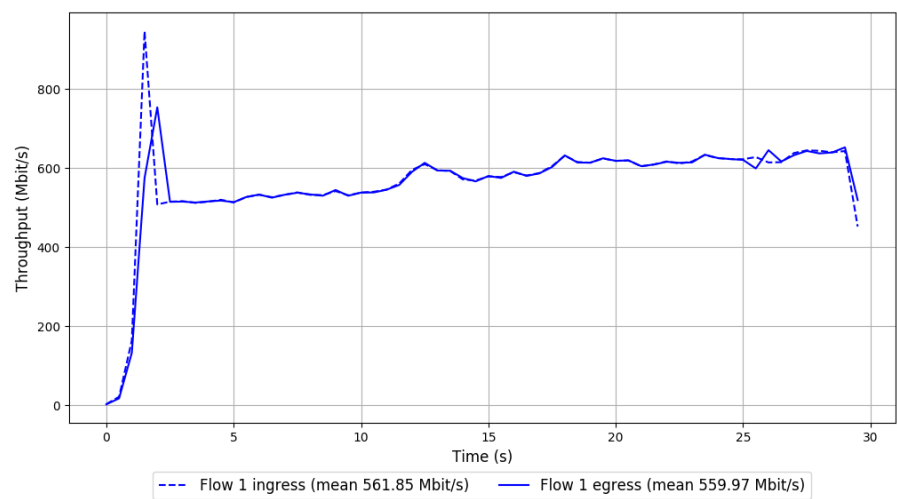
-- Flow 1:

Average throughput: 559.97 Mbit/s

95th percentile per-packet one-way delay: 59.332 ms

Loss rate: 0.32%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-21 16:32:11

End at: 2017-09-21 16:32:41

Below is generated by plot.py at 2017-09-21 18:50:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 627.08 Mbit/s

95th percentile per-packet one-way delay: 57.737 ms

Loss rate: 0.08%

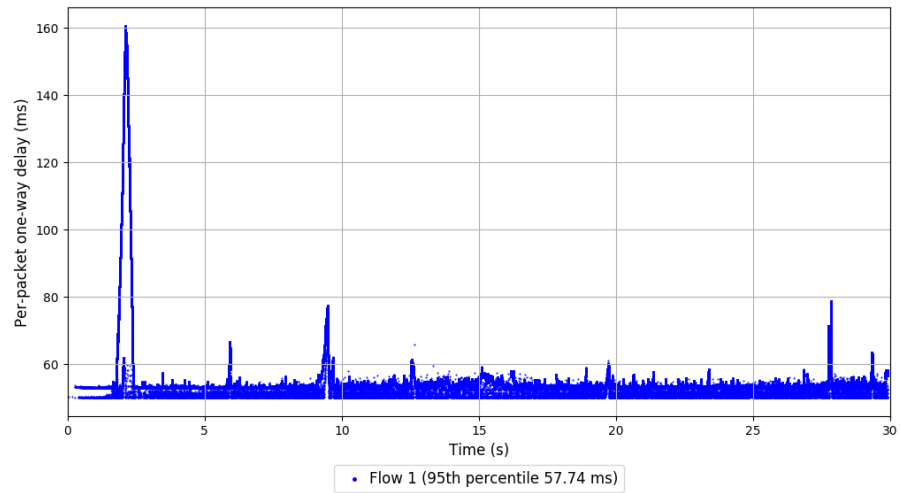
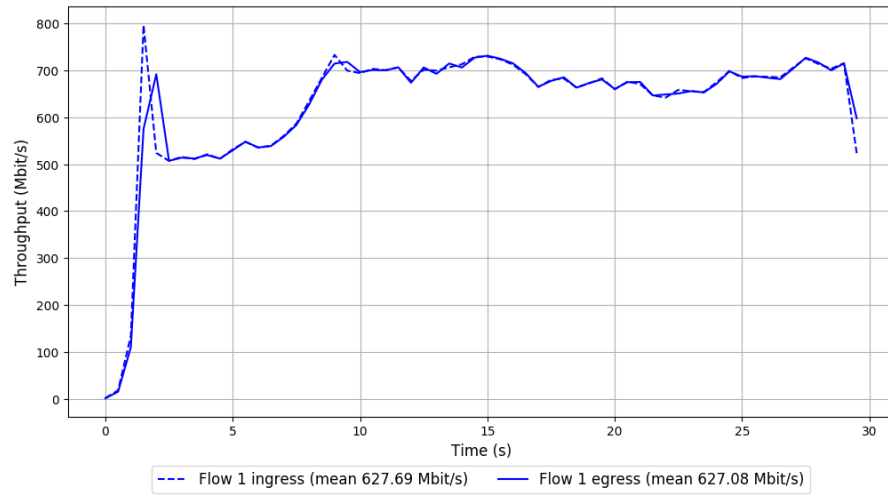
-- Flow 1:

Average throughput: 627.08 Mbit/s

95th percentile per-packet one-way delay: 57.737 ms

Loss rate: 0.08%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-21 16:42:42

End at: 2017-09-21 16:43:12

Below is generated by plot.py at 2017-09-21 18:50:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 591.78 Mbit/s

95th percentile per-packet one-way delay: 221.315 ms

Loss rate: 7.64%

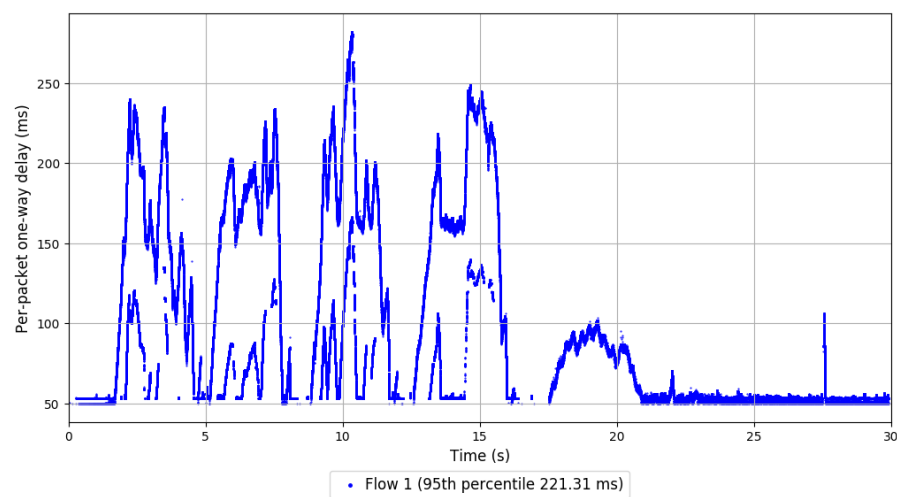
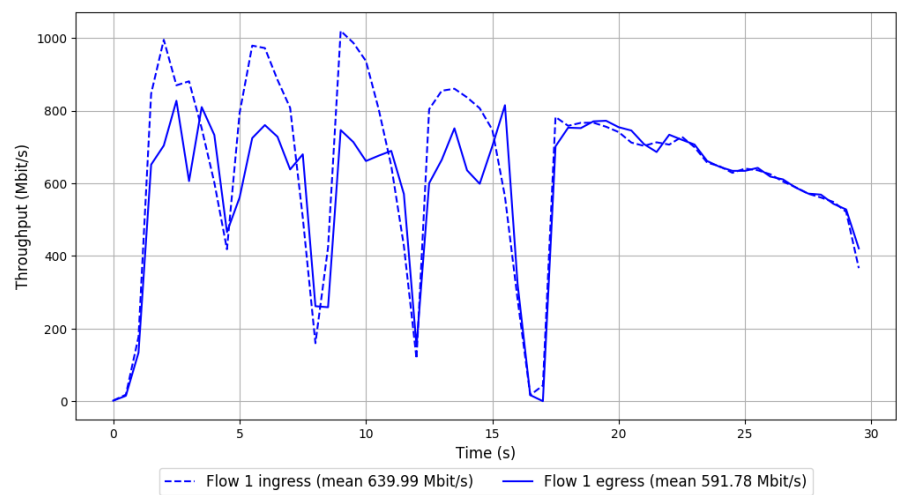
-- Flow 1:

Average throughput: 591.78 Mbit/s

95th percentile per-packet one-way delay: 221.315 ms

Loss rate: 7.64%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-21 16:53:03

End at: 2017-09-21 16:53:33

Below is generated by plot.py at 2017-09-21 18:50:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 633.34 Mbit/s

95th percentile per-packet one-way delay: 88.621 ms

Loss rate: 0.29%

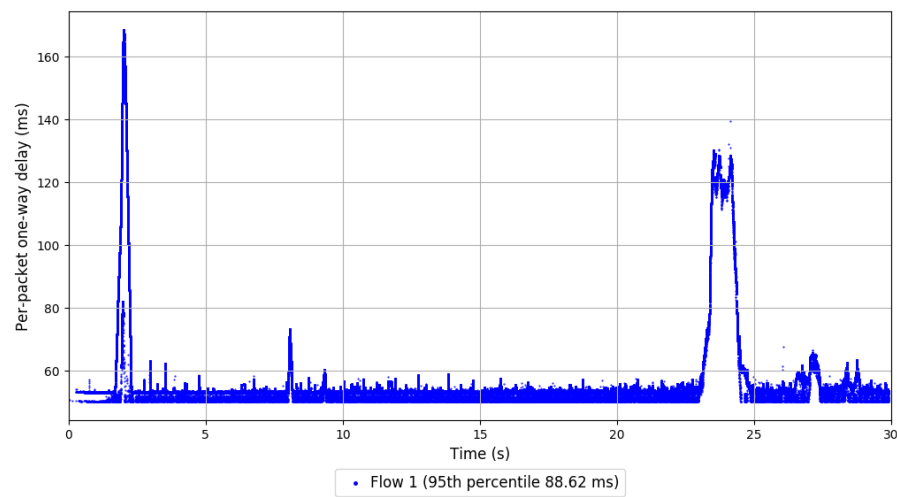
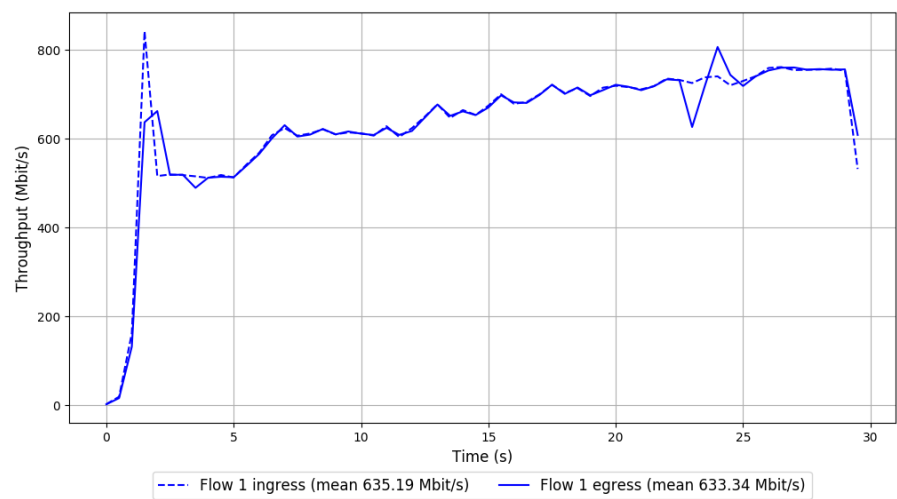
-- Flow 1:

Average throughput: 633.34 Mbit/s

95th percentile per-packet one-way delay: 88.621 ms

Loss rate: 0.29%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-21 17:03:35

End at: 2017-09-21 17:04:05

Below is generated by plot.py at 2017-09-21 18:50:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 582.61 Mbit/s

95th percentile per-packet one-way delay: 65.239 ms

Loss rate: 0.01%

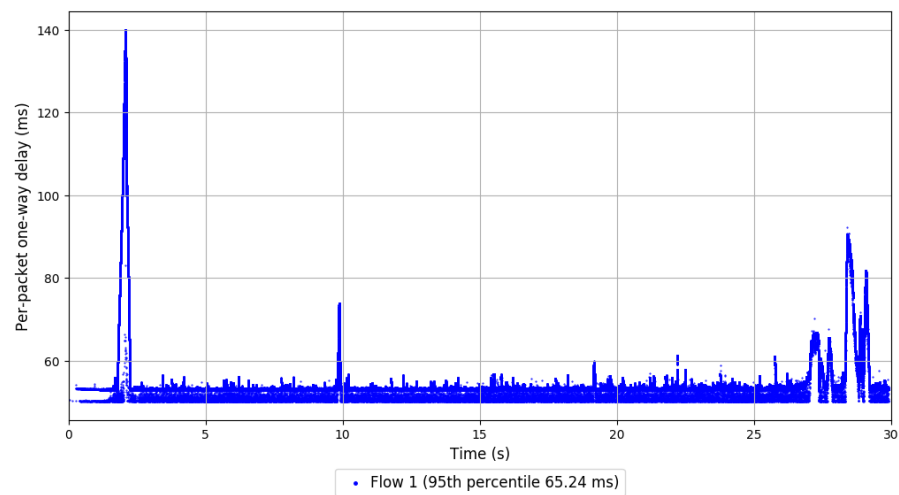
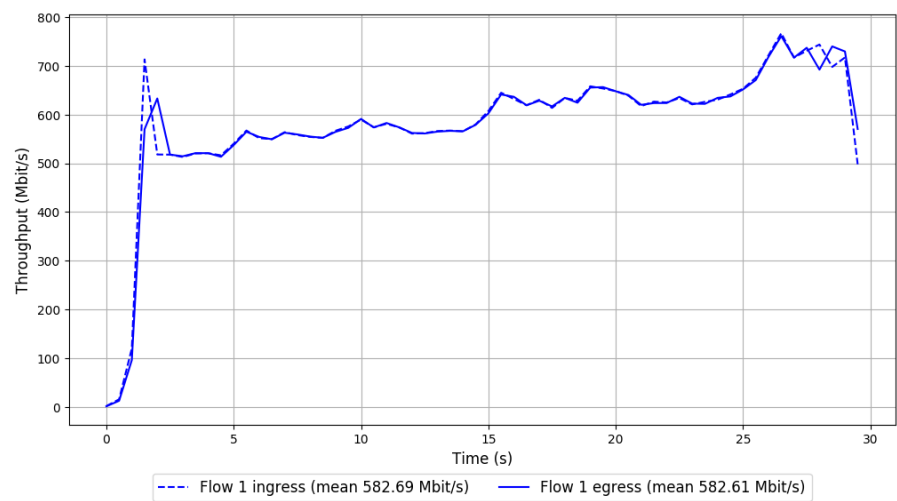
-- Flow 1:

Average throughput: 582.61 Mbit/s

95th percentile per-packet one-way delay: 65.239 ms

Loss rate: 0.01%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-21 17:14:13

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

Below is generated by plot.py at 2017-09-21 18:50:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 600.12 Mbit/s

95th percentile per-packet one-way delay: 57.561 ms

Loss rate: 0.05%

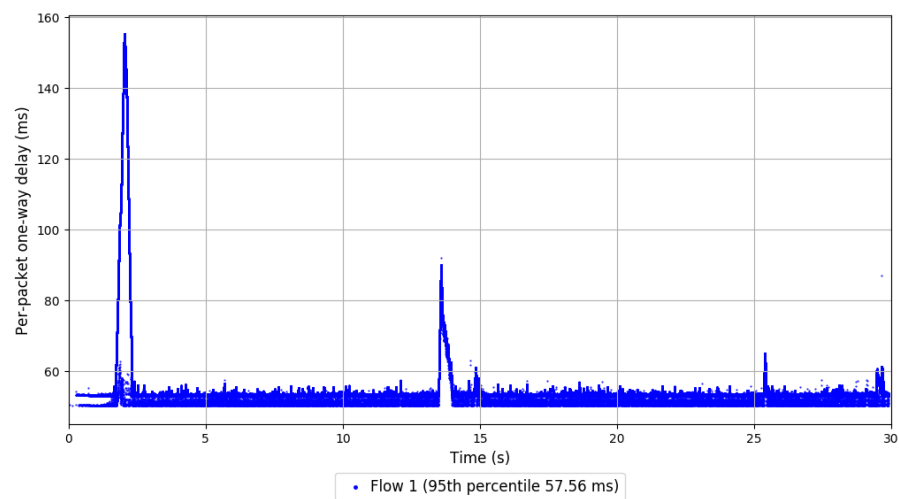
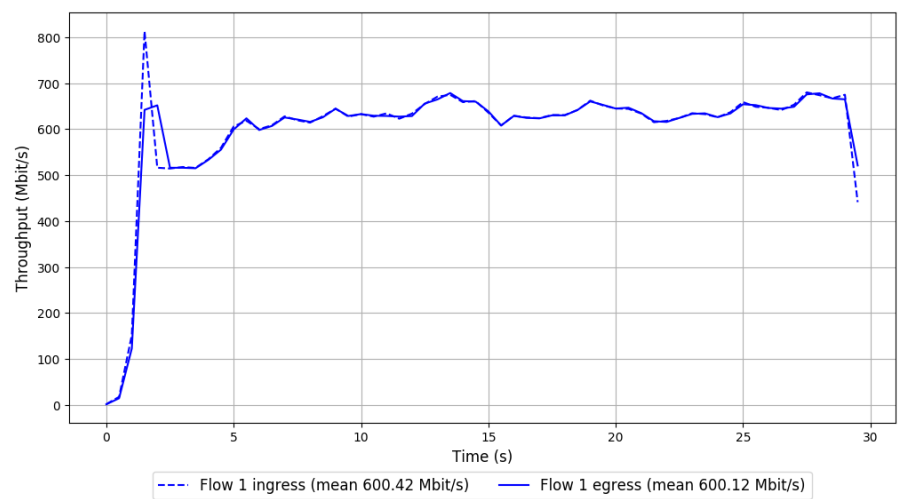
-- Flow 1:

Average throughput: 600.12 Mbit/s

95th percentile per-packet one-way delay: 57.561 ms

Loss rate: 0.05%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-21 17:24:32

End at: 2017-09-21 17:25:02

Below is generated by plot.py at 2017-09-21 18:51:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 633.08 Mbit/s

95th percentile per-packet one-way delay: 63.625 ms

Loss rate: 0.20%

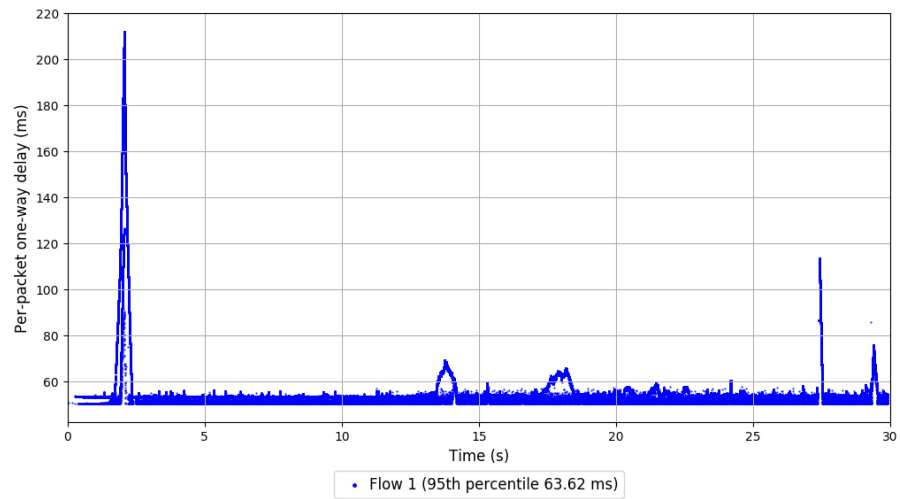
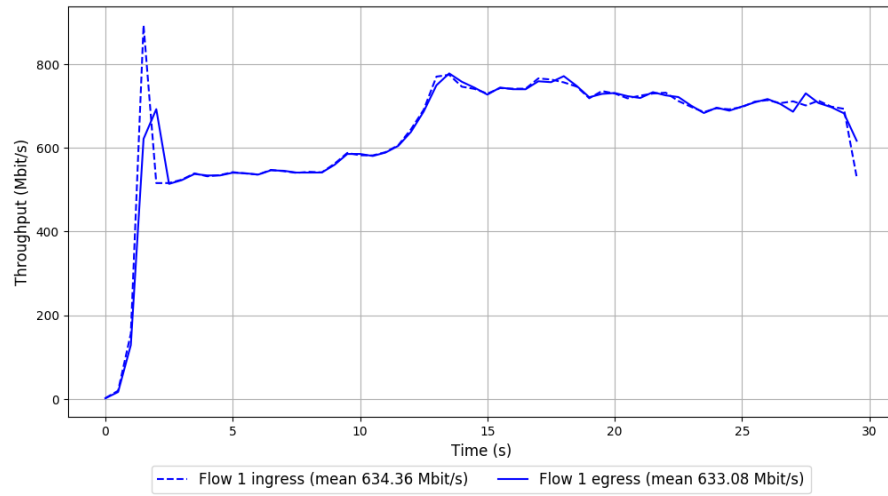
-- Flow 1:

Average throughput: 633.08 Mbit/s

95th percentile per-packet one-way delay: 63.625 ms

Loss rate: 0.20%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-21 17:35:01

End at: 2017-09-21 17:35:31

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 665.82 Mbit/s

95th percentile per-packet one-way delay: 108.244 ms

Loss rate: 0.25%

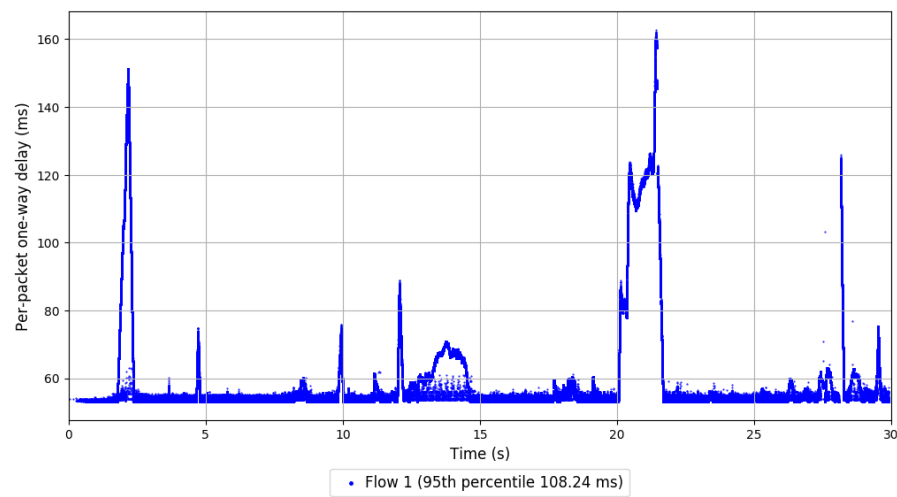
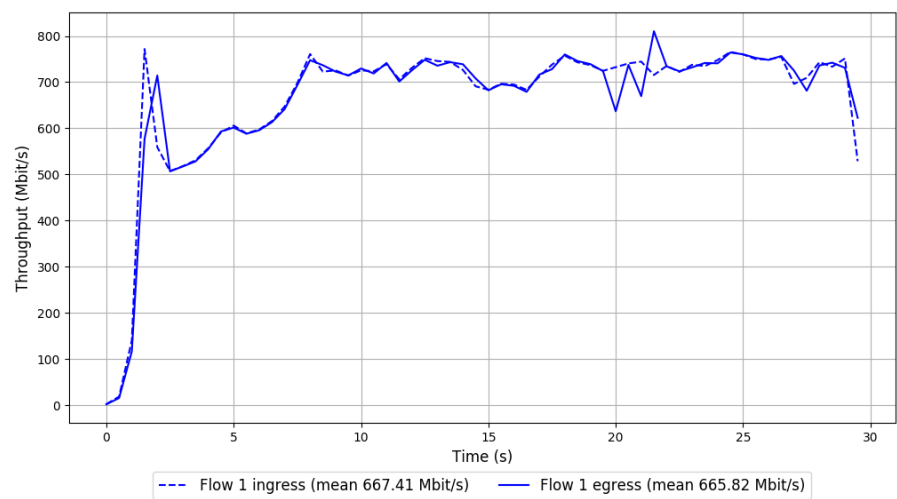
-- Flow 1:

Average throughput: 665.82 Mbit/s

95th percentile per-packet one-way delay: 108.244 ms

Loss rate: 0.25%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-21 17:45:49

End at: 2017-09-21 17:46:19

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 613.38 Mbit/s

95th percentile per-packet one-way delay: 54.887 ms

Loss rate: 0.12%

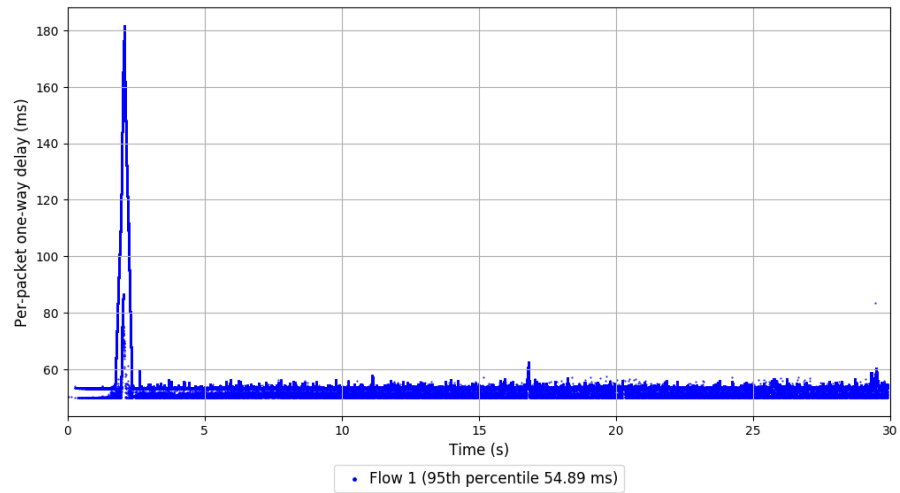
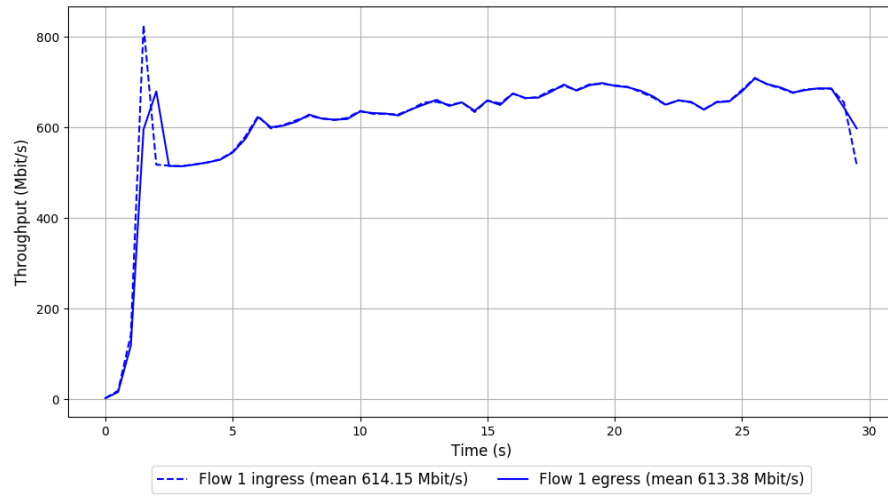
-- Flow 1:

Average throughput: 613.38 Mbit/s

95th percentile per-packet one-way delay: 54.887 ms

Loss rate: 0.12%

Run 10: Report of PCC — Data Link

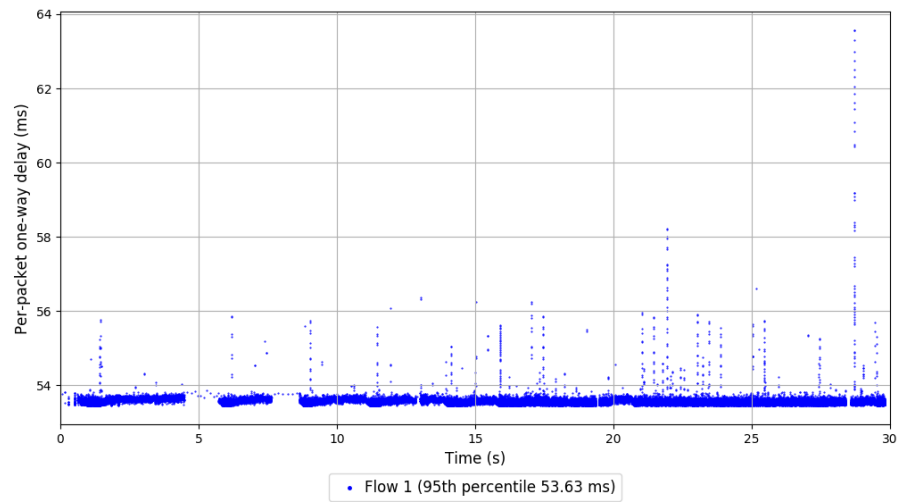
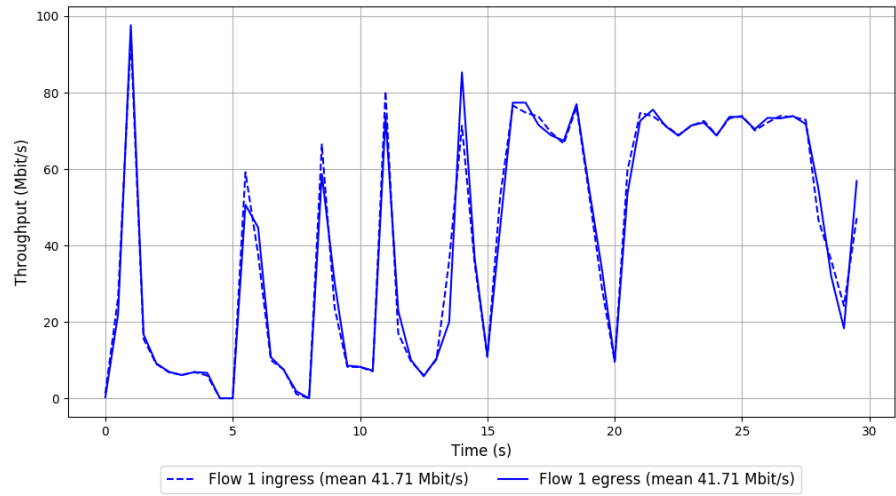


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-21 16:10:44
End at: 2017-09-21 16:11:14

# Below is generated by plot.py at 2017-09-21 19:01:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.71 Mbit/s
95th percentile per-packet one-way delay: 53.631 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 41.71 Mbit/s
95th percentile per-packet one-way delay: 53.631 ms
Loss rate: 0.01%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

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

End at: 2017-09-21 16:21:39

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.62 Mbit/s

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

Loss rate: 0.01%

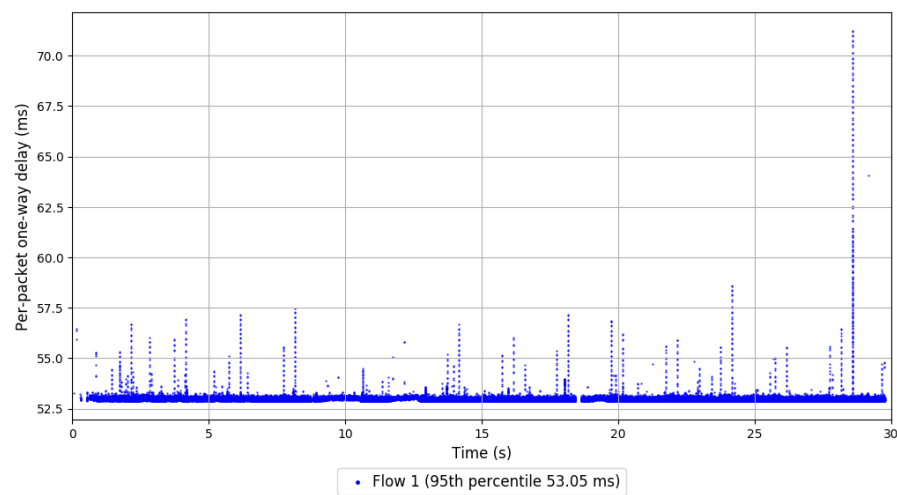
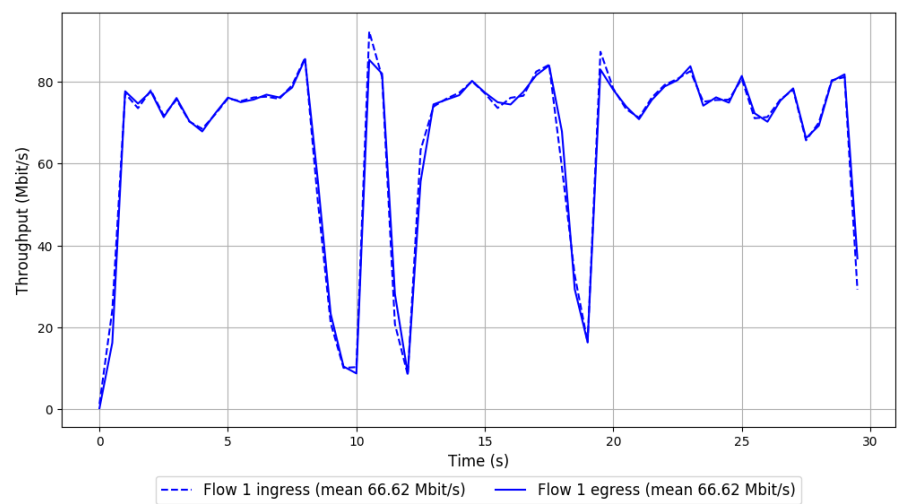
-- Flow 1:

Average throughput: 66.62 Mbit/s

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

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-21 16:31:31

End at: 2017-09-21 16:32:01

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.09 Mbit/s

95th percentile per-packet one-way delay: 53.063 ms

Loss rate: 0.01%

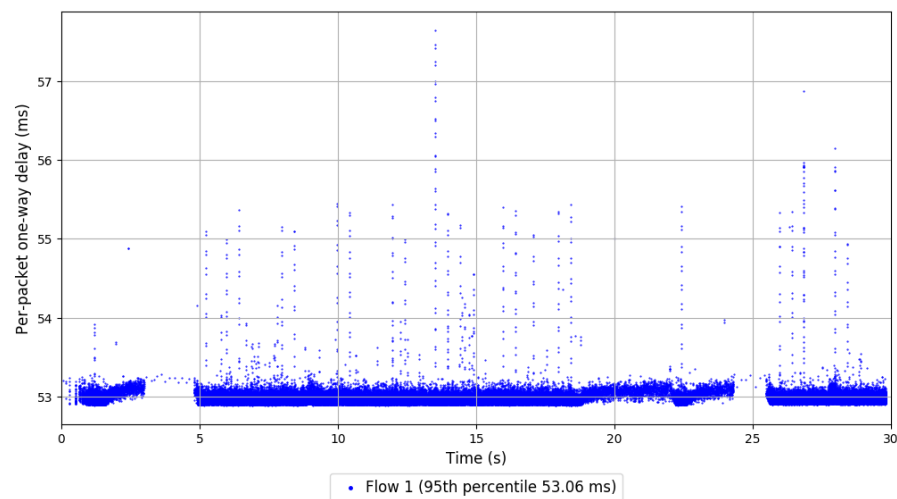
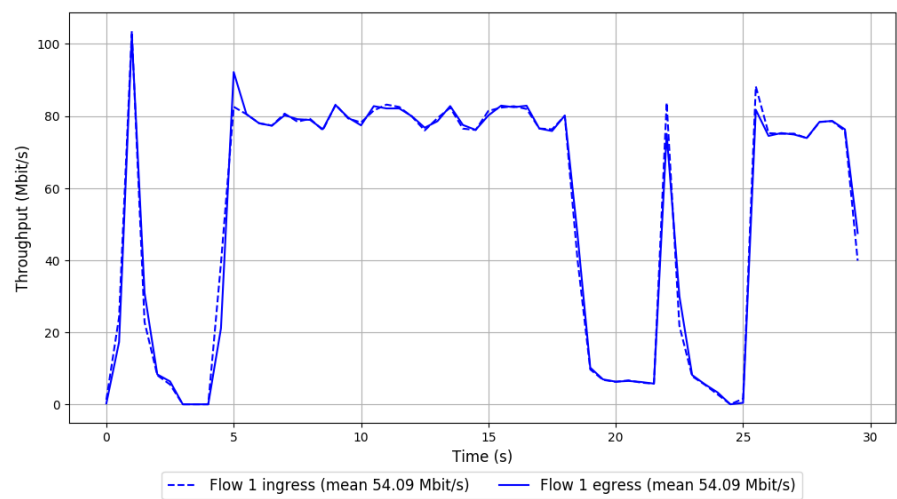
-- Flow 1:

Average throughput: 54.09 Mbit/s

95th percentile per-packet one-way delay: 53.063 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-21 16:42:01

End at: 2017-09-21 16:42:31

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.25 Mbit/s

95th percentile per-packet one-way delay: 50.016 ms

Loss rate: 0.00%

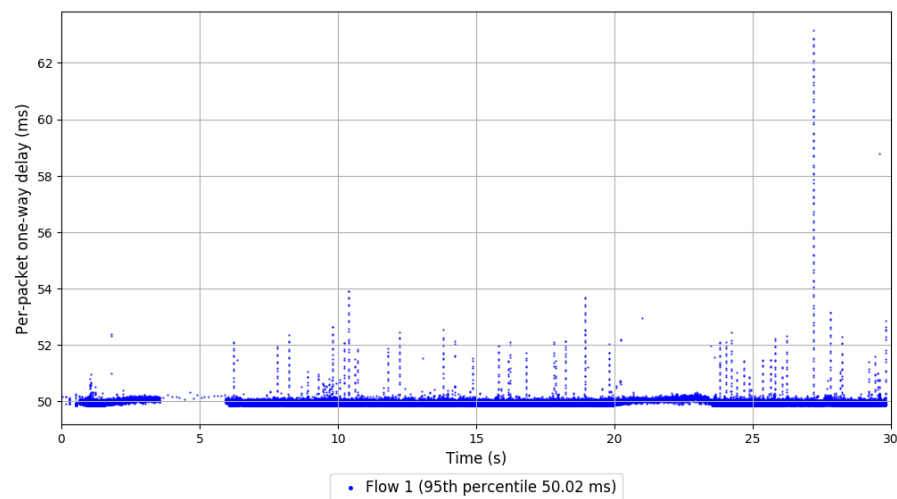
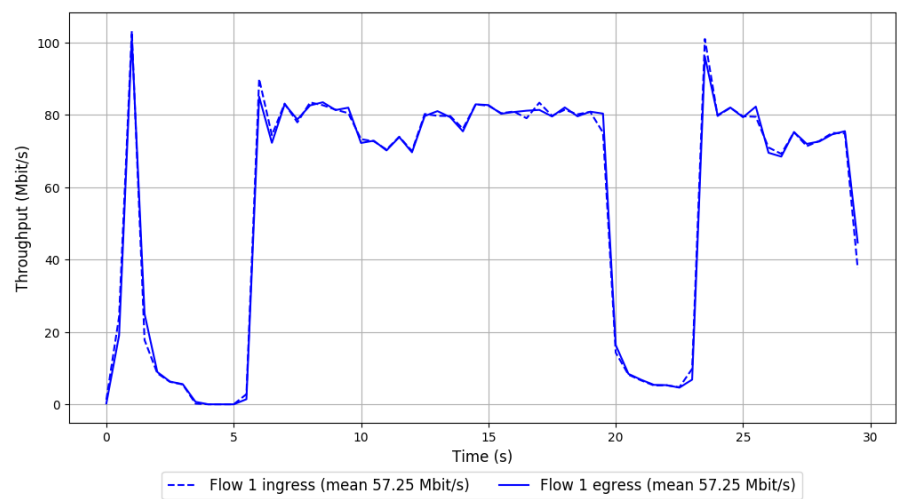
-- Flow 1:

Average throughput: 57.25 Mbit/s

95th percentile per-packet one-way delay: 50.016 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-21 16:52:22

End at: 2017-09-21 16:52:52

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.13 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.01%

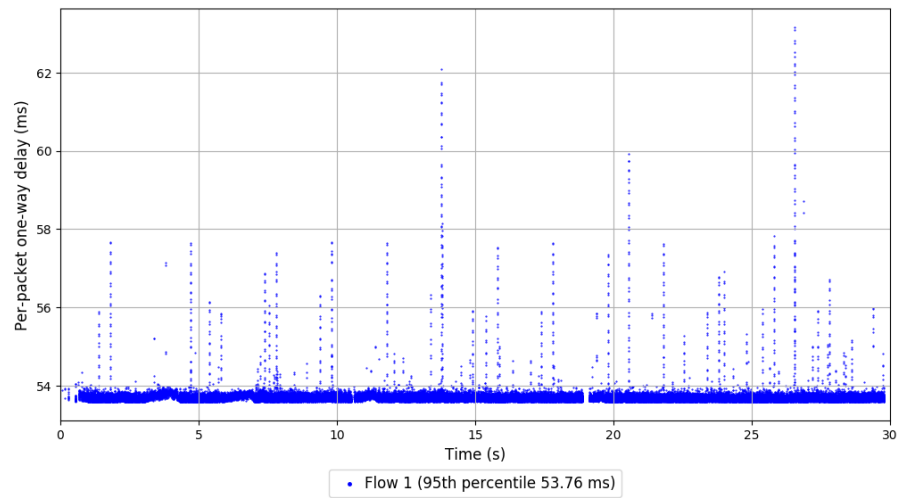
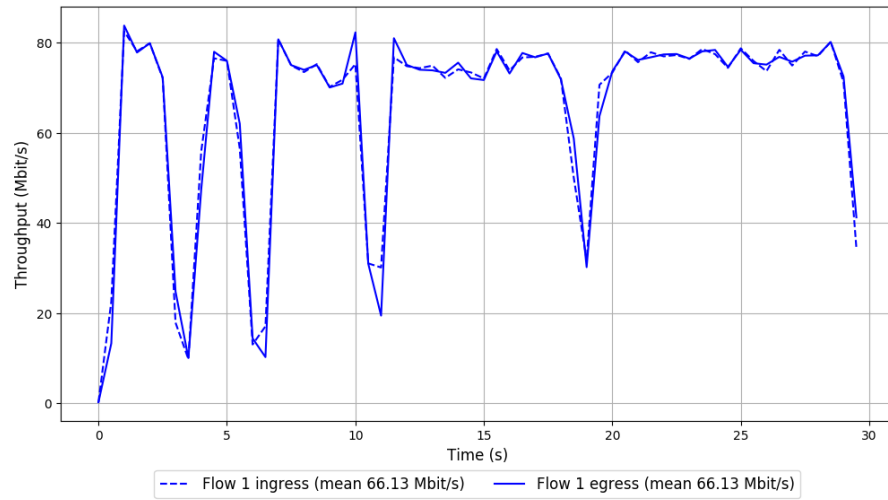
-- Flow 1:

Average throughput: 66.13 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-21 17:02:54

End at: 2017-09-21 17:03:24

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: 49.986 ms

Loss rate: 0.00%

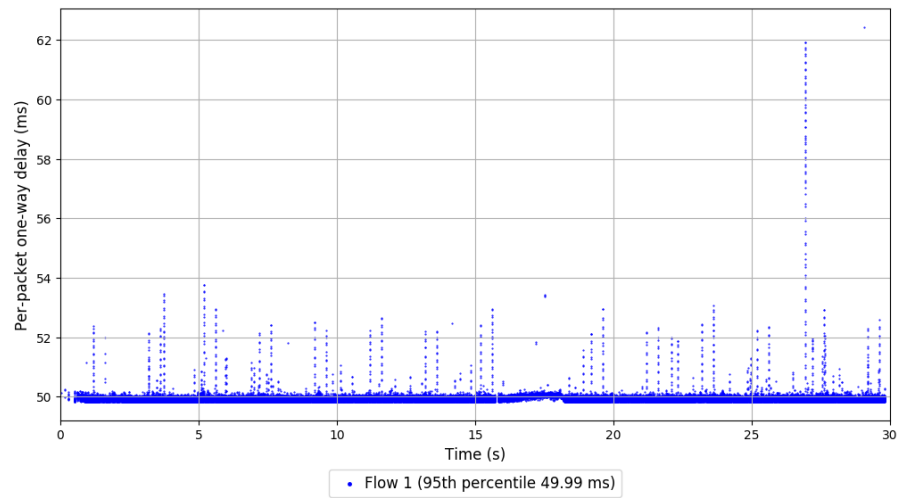
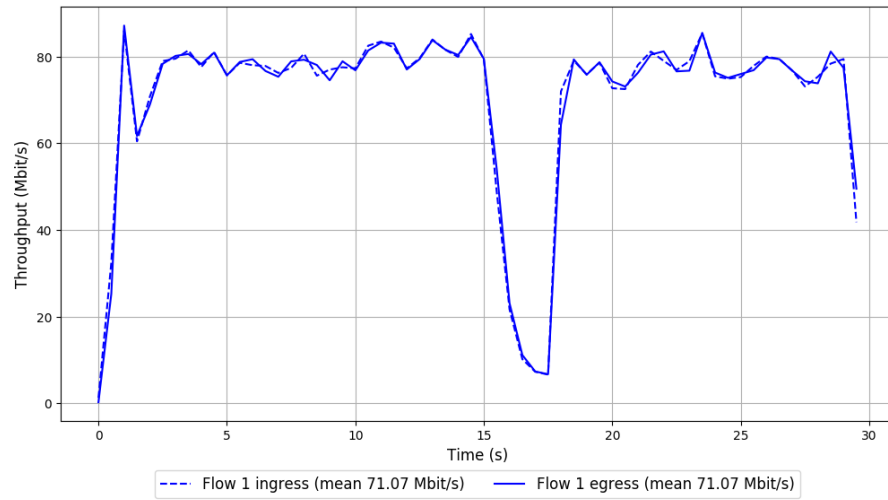
-- Flow 1:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: 49.986 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-21 17:13:32

End at: 2017-09-21 17:14:02

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.39 Mbit/s

95th percentile per-packet one-way delay: 50.005 ms

Loss rate: 0.00%

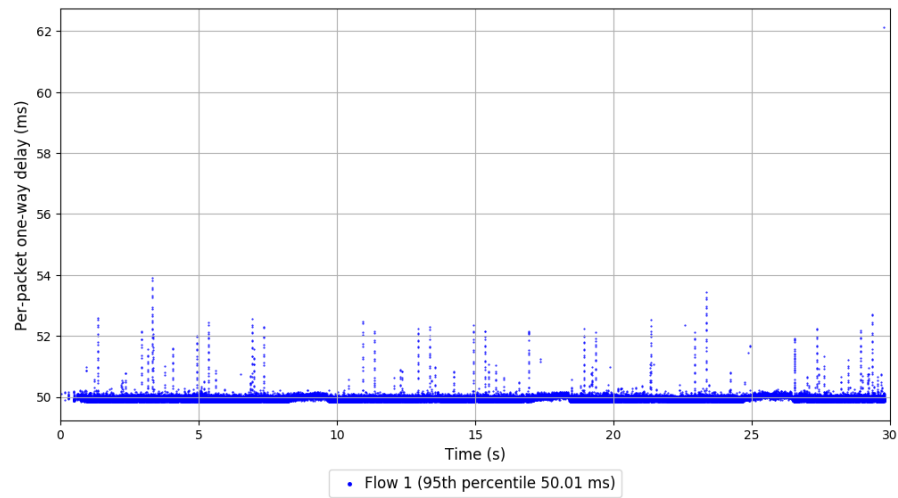
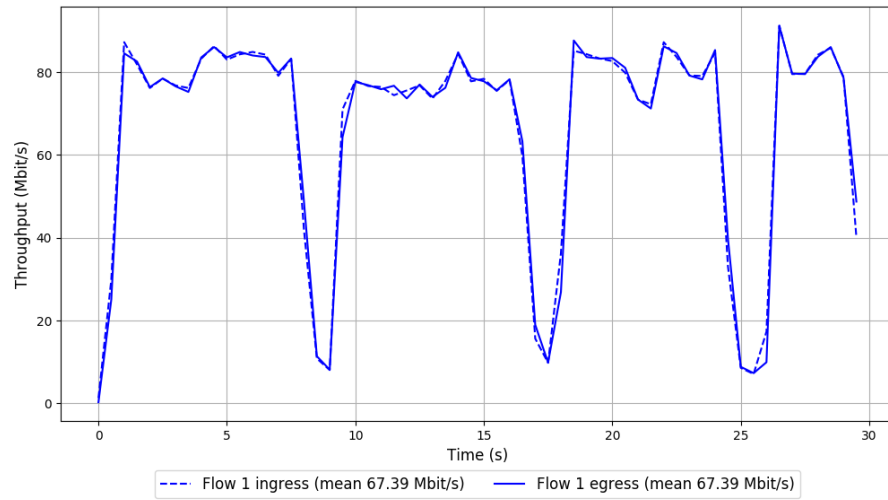
-- Flow 1:

Average throughput: 67.39 Mbit/s

95th percentile per-packet one-way delay: 50.005 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-21 17:23:51

End at: 2017-09-21 17:24:21

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.28 Mbit/s

95th percentile per-packet one-way delay: 53.800 ms

Loss rate: 0.00%

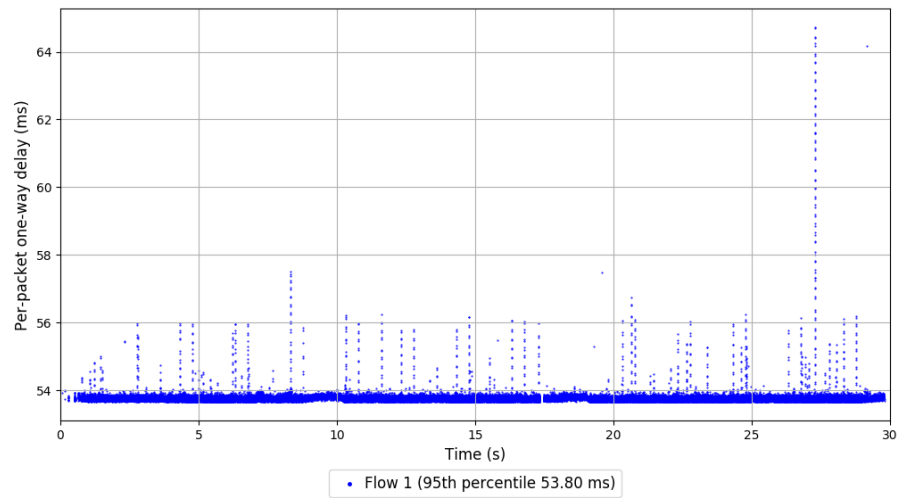
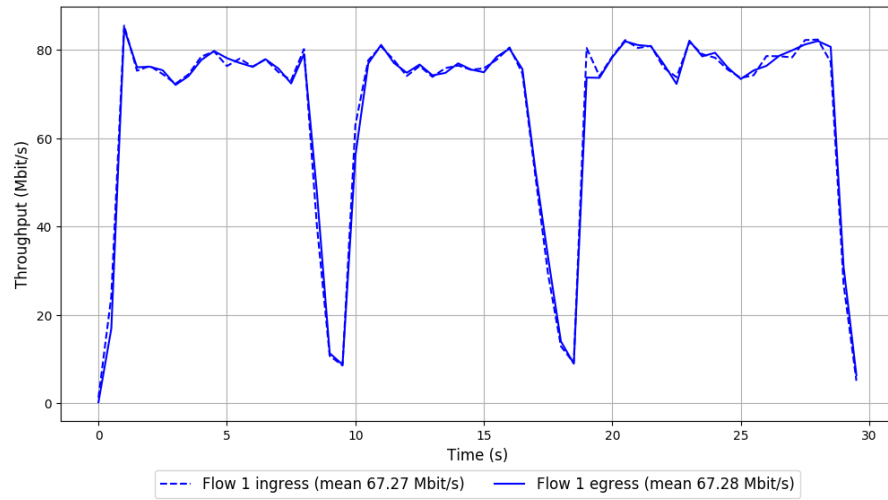
-- Flow 1:

Average throughput: 67.28 Mbit/s

95th percentile per-packet one-way delay: 53.800 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-21 17:34:20

End at: 2017-09-21 17:34:50

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.26 Mbit/s

95th percentile per-packet one-way delay: 53.785 ms

Loss rate: 0.01%

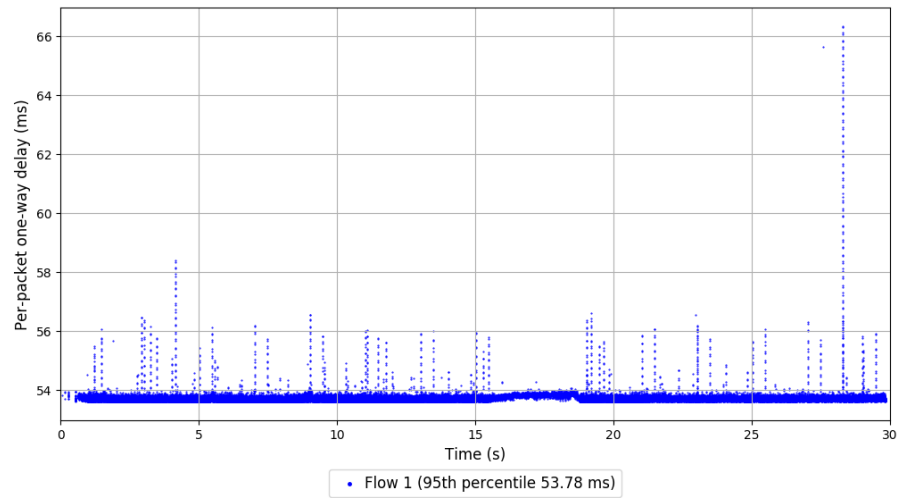
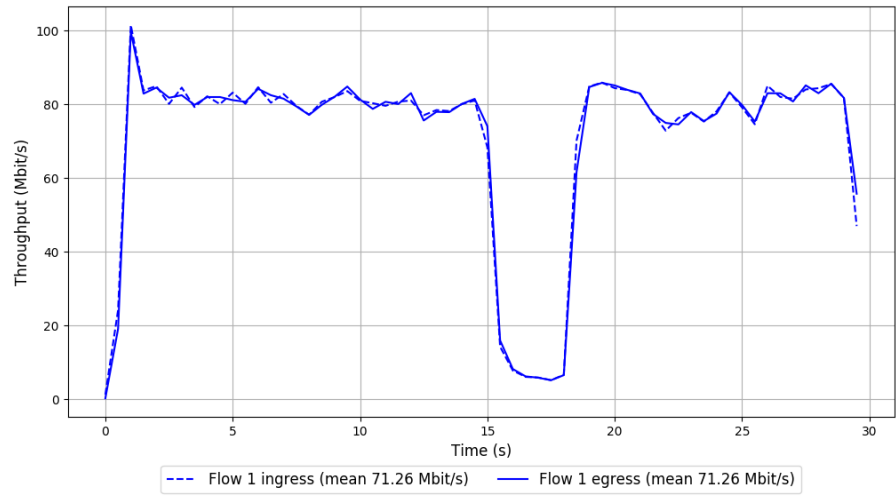
-- Flow 1:

Average throughput: 71.26 Mbit/s

95th percentile per-packet one-way delay: 53.785 ms

Loss rate: 0.01%

Run 9: Report of QUIC Cubic — Data Link

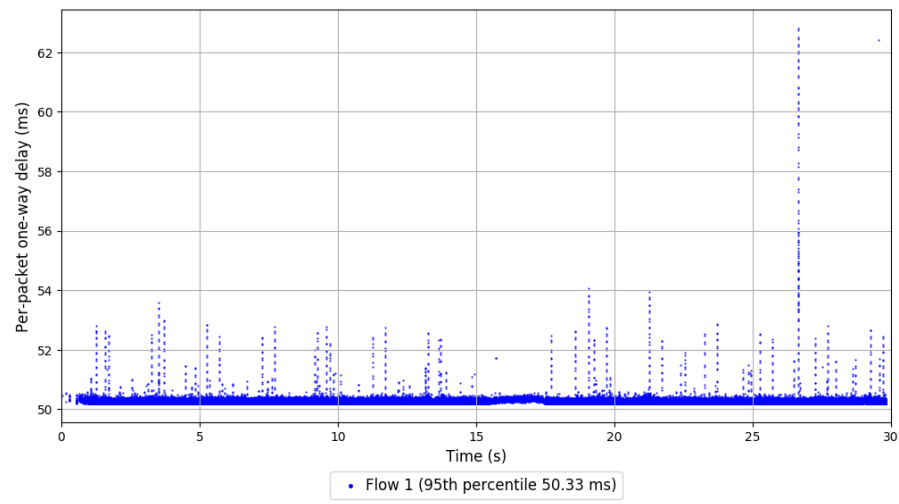
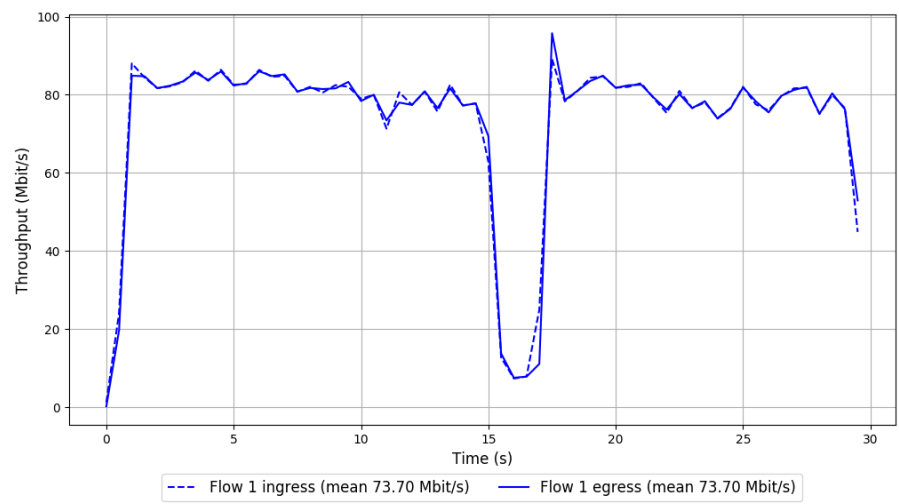


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-21 17:45:08
End at: 2017-09-21 17:45:38

# Below is generated by plot.py at 2017-09-21 19:01:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.70 Mbit/s
95th percentile per-packet one-way delay: 50.334 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.70 Mbit/s
95th percentile per-packet one-way delay: 50.334 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

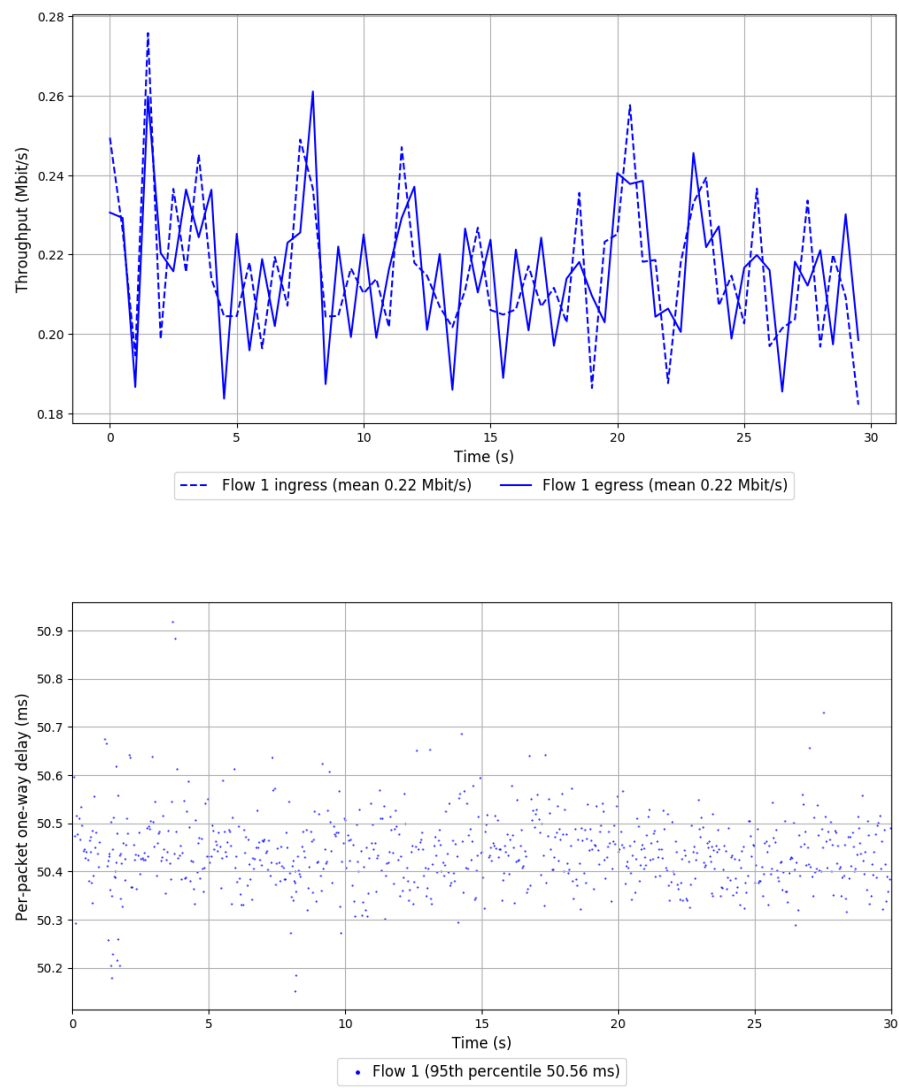


```
Run 1: Statistics of SCReAM

Start at: 2017-09-21 16:16:47
End at: 2017-09-21 16:17:17

# Below is generated by plot.py at 2017-09-21 19:01:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.557 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.557 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

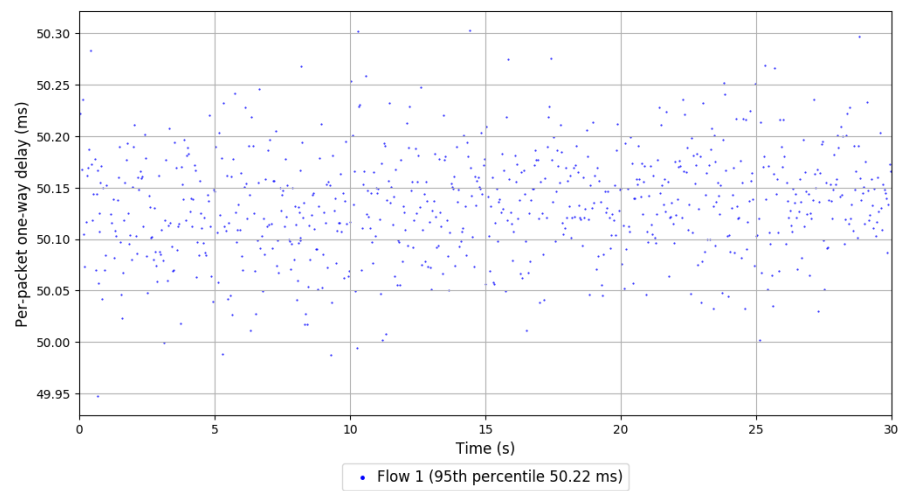
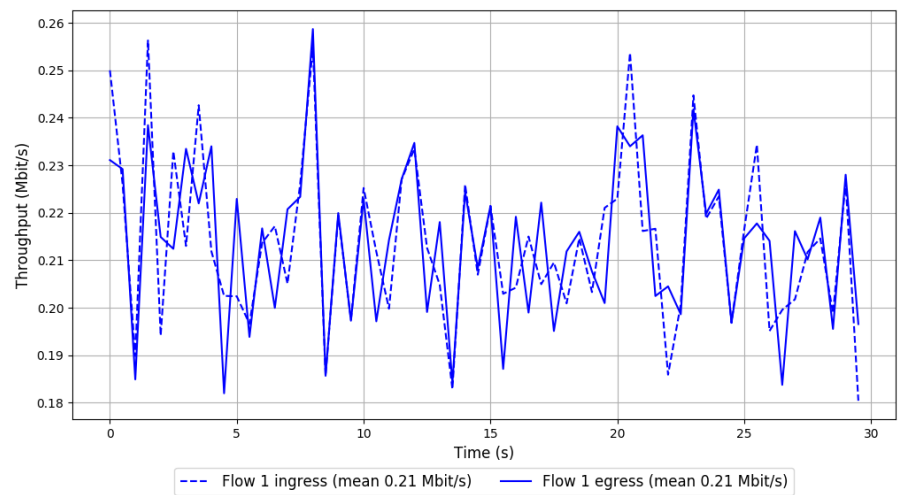


```
Run 2: Statistics of SCReAM

Start at: 2017-09-21 16:27:07
End at: 2017-09-21 16:27:37

# Below is generated by plot.py at 2017-09-21 19:01:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.219 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-21 16:37:48

End at: 2017-09-21 16:38:18

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.948 ms

Loss rate: 0.00%

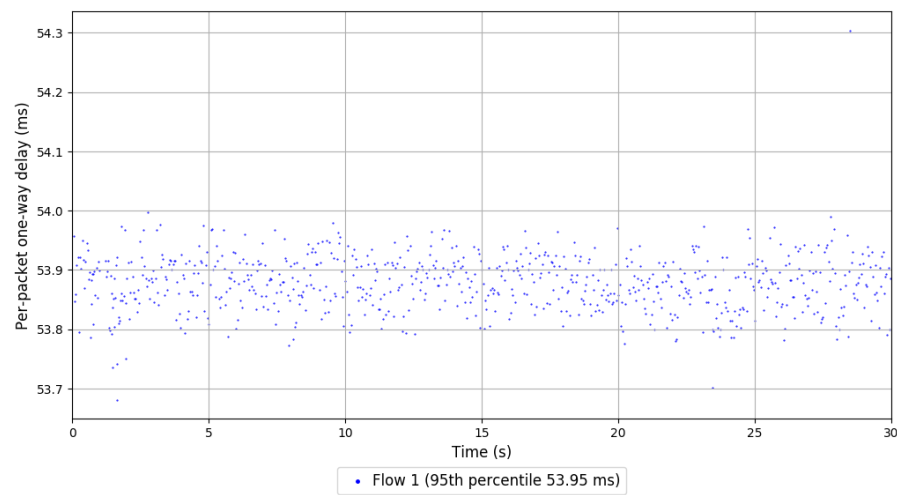
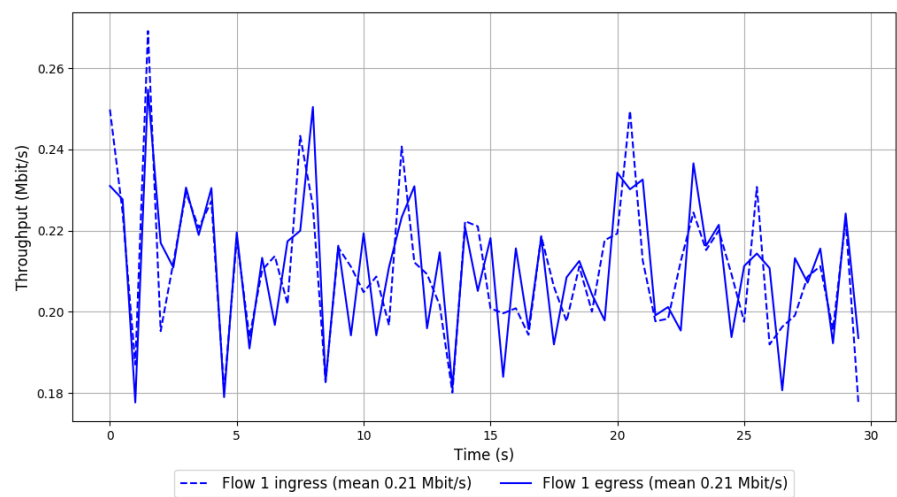
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.948 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-21 16:48:03

End at: 2017-09-21 16:48:33

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.00%

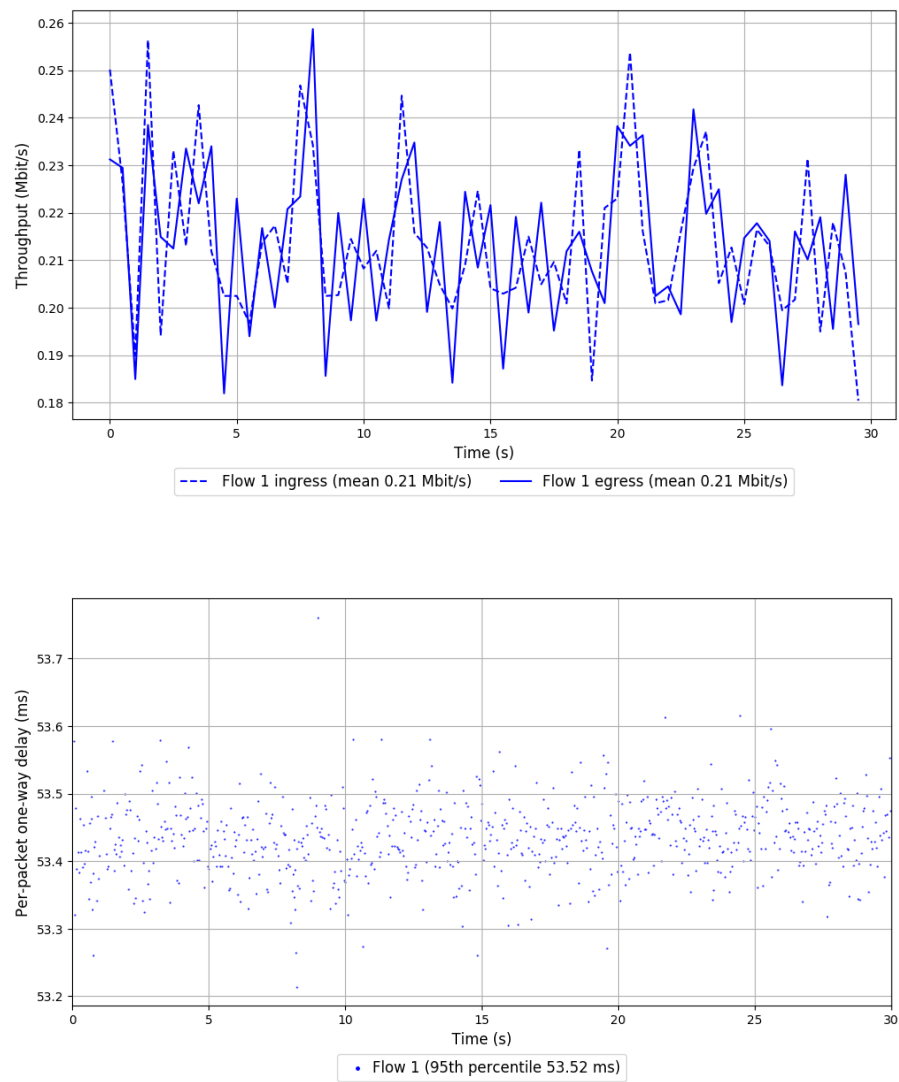
-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-21 16:58:29

End at: 2017-09-21 16:58:59

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.412 ms

Loss rate: 0.00%

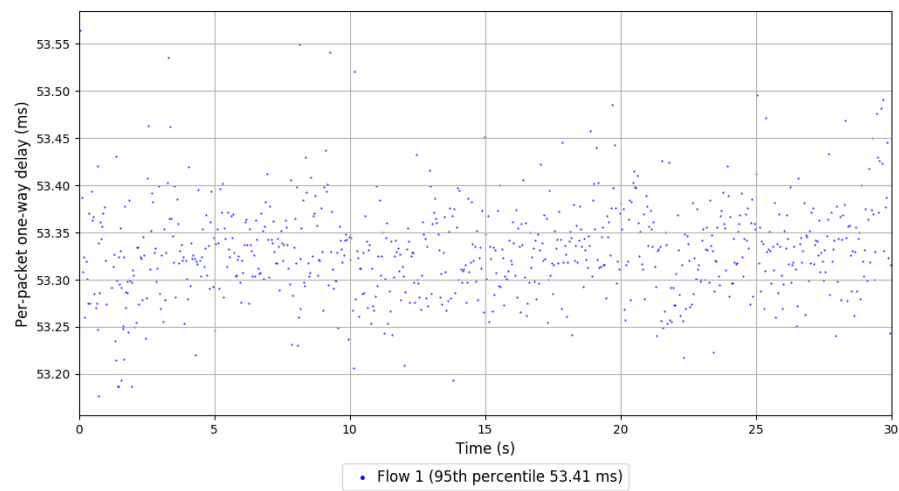
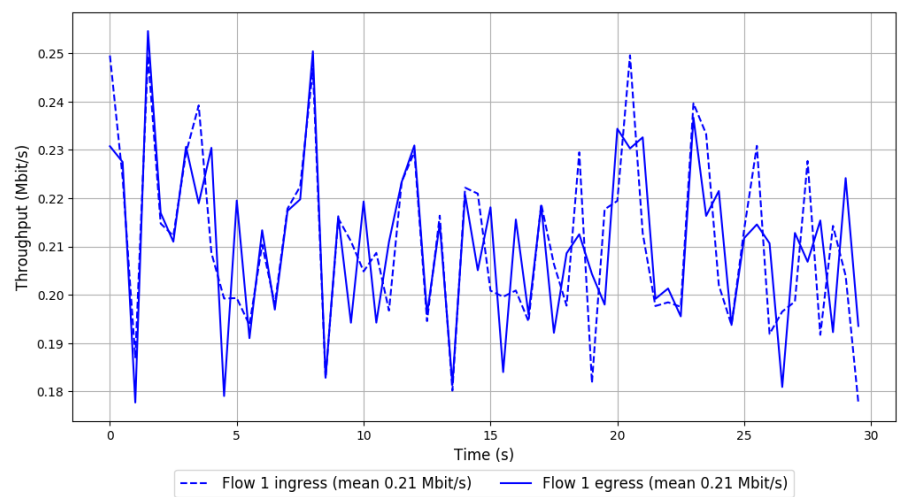
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.412 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-21 17:09:10

End at: 2017-09-21 17:09:40

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.644 ms

Loss rate: 0.00%

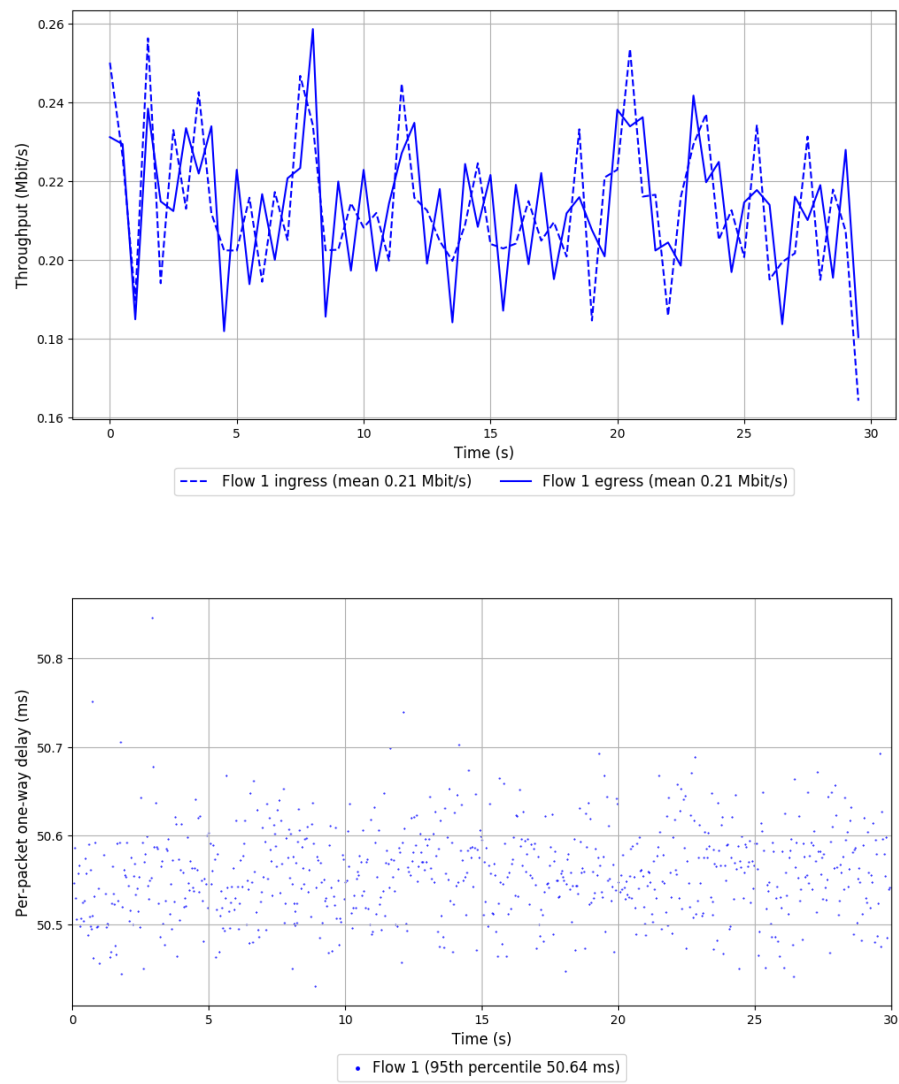
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.644 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-09-21 17:19:30

End at: 2017-09-21 17:20:00

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.435 ms

Loss rate: 0.00%

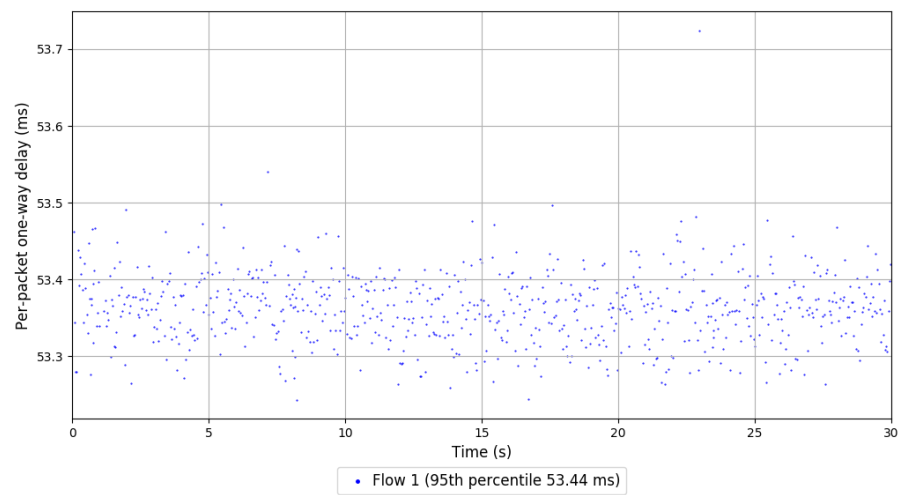
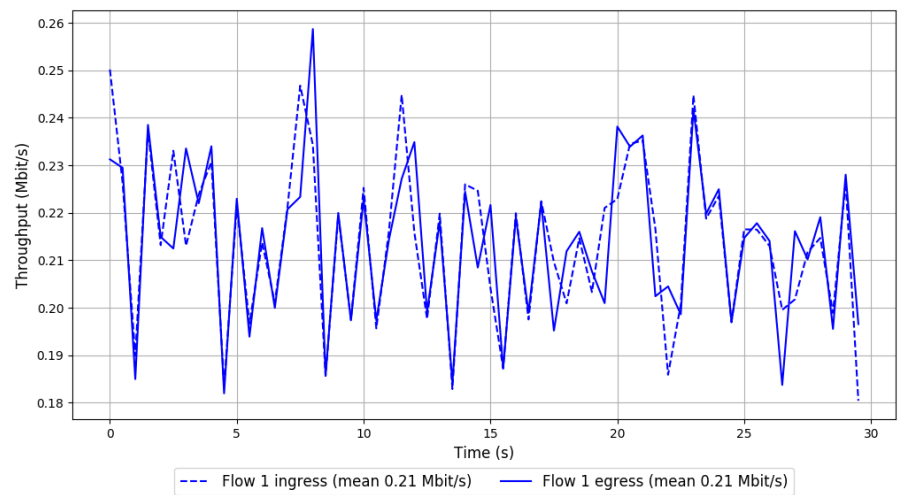
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.435 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-21 17:29:57

End at: 2017-09-21 17:30:27

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.566 ms

Loss rate: 0.00%

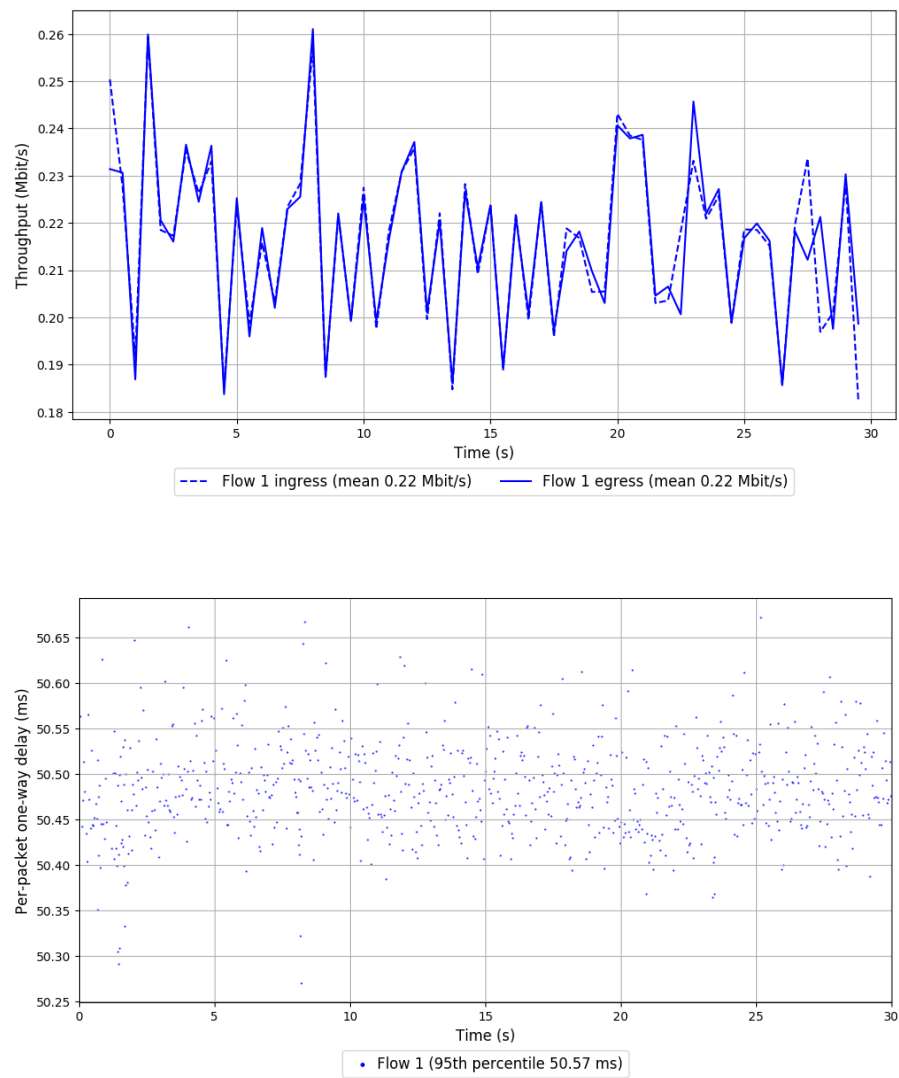
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.566 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-21 17:40:43

End at: 2017-09-21 17:41:13

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.434 ms

Loss rate: 0.00%

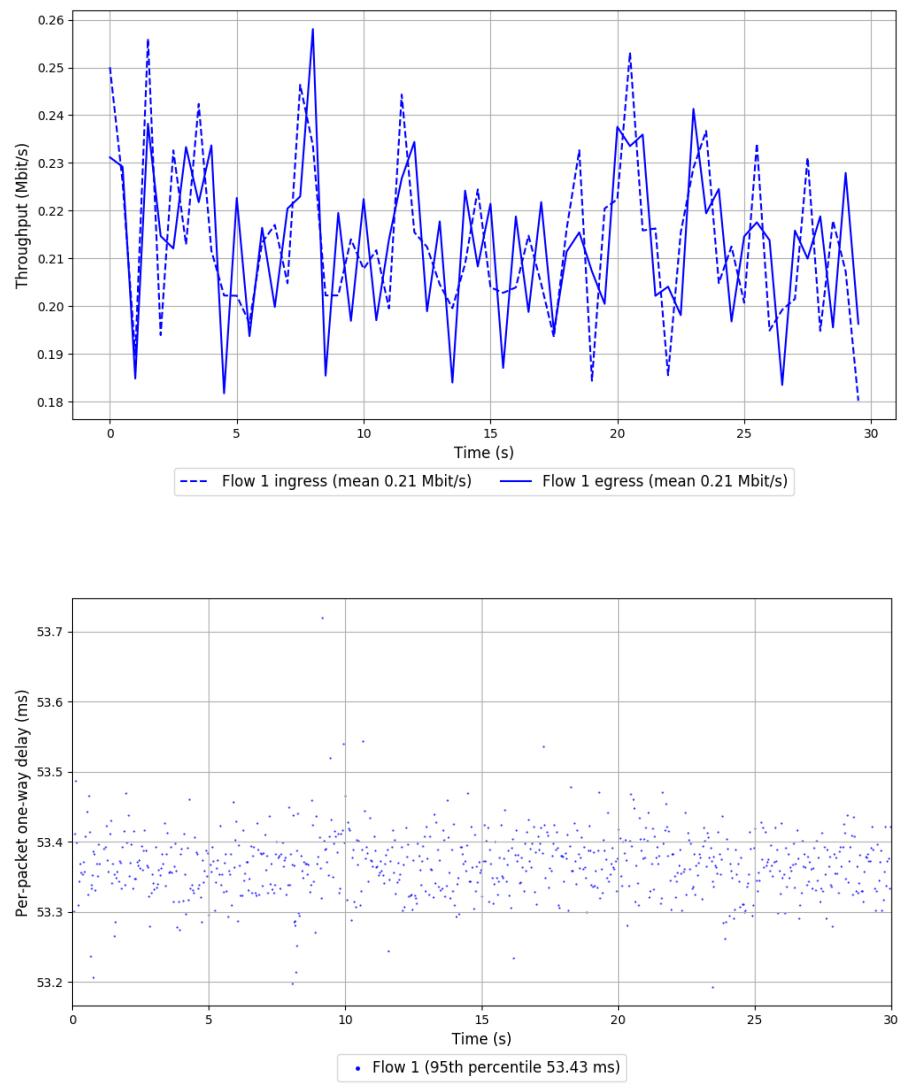
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.434 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

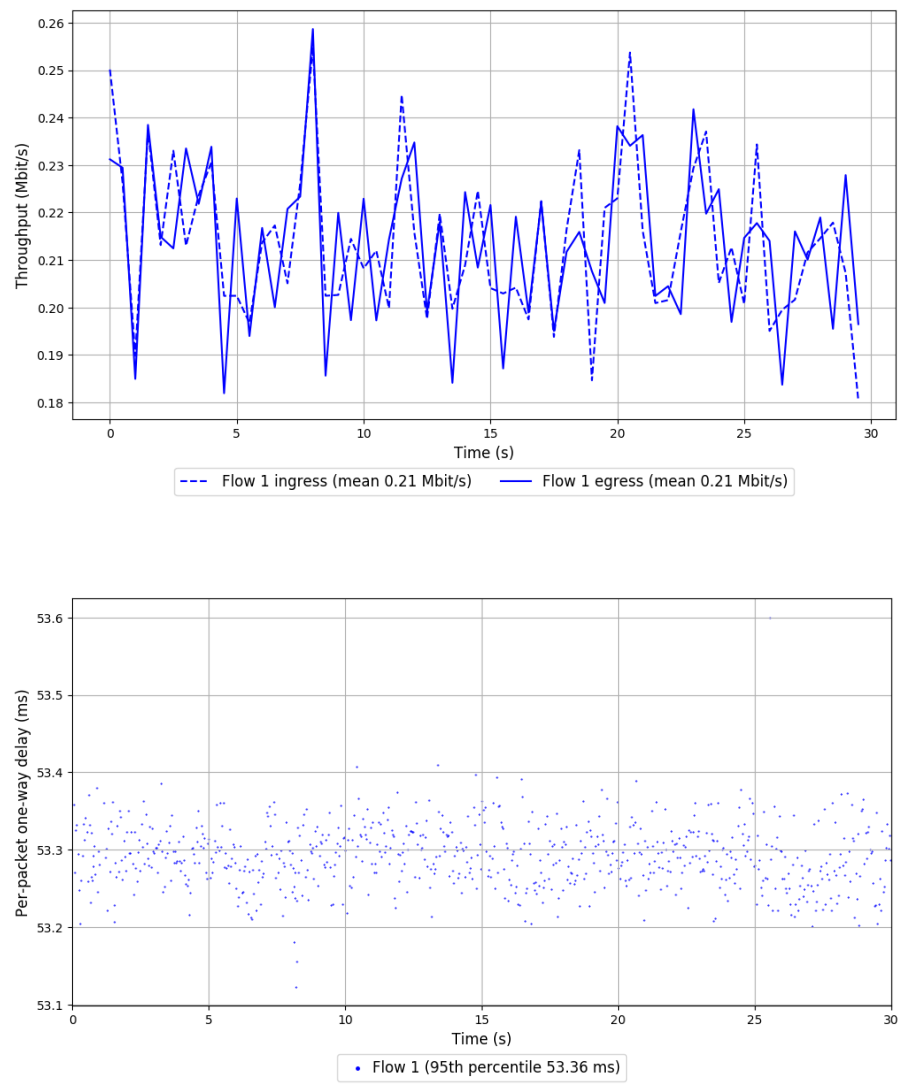


```
Run 10: Statistics of SReAM

Start at: 2017-09-21 17:51:34
End at: 2017-09-21 17:52:04

# Below is generated by plot.py at 2017-09-21 19:01:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.358 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.358 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

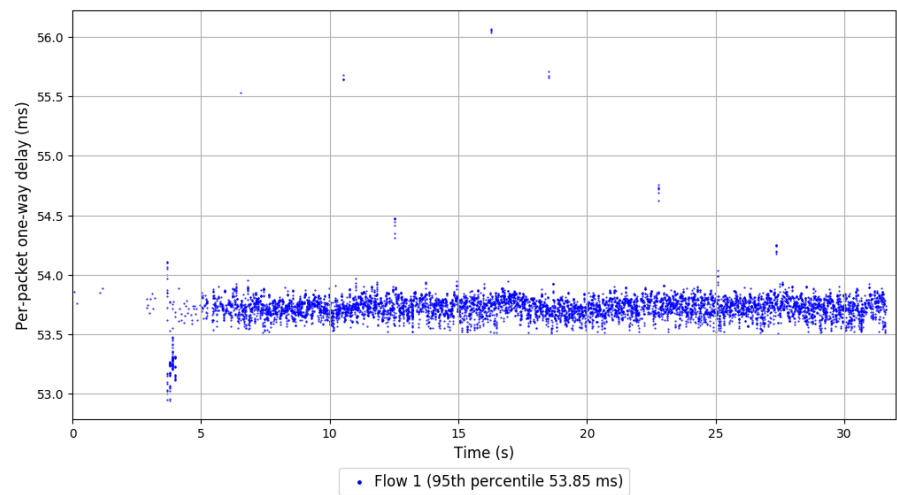
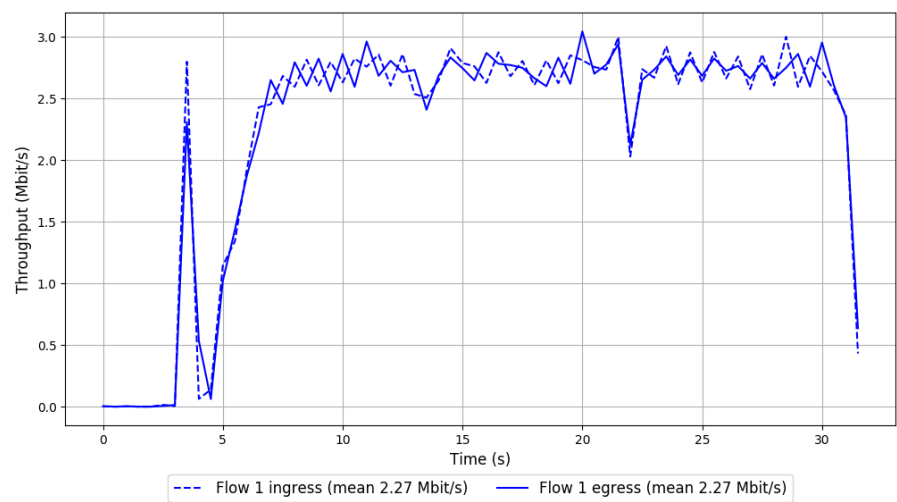


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-21 16:10:07
End at: 2017-09-21 16:10:37

# Below is generated by plot.py at 2017-09-21 19:01:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 53.849 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 53.849 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-21 16:20:32

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

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.348 ms

Loss rate: 0.00%

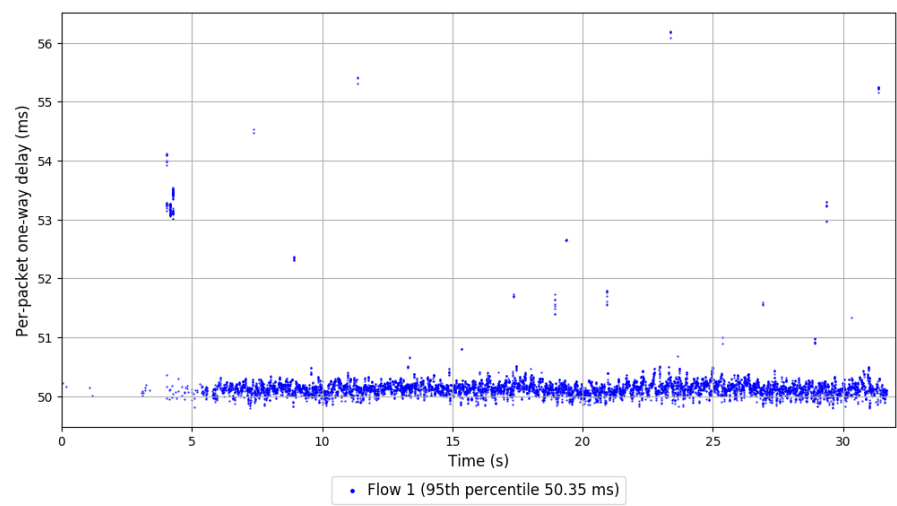
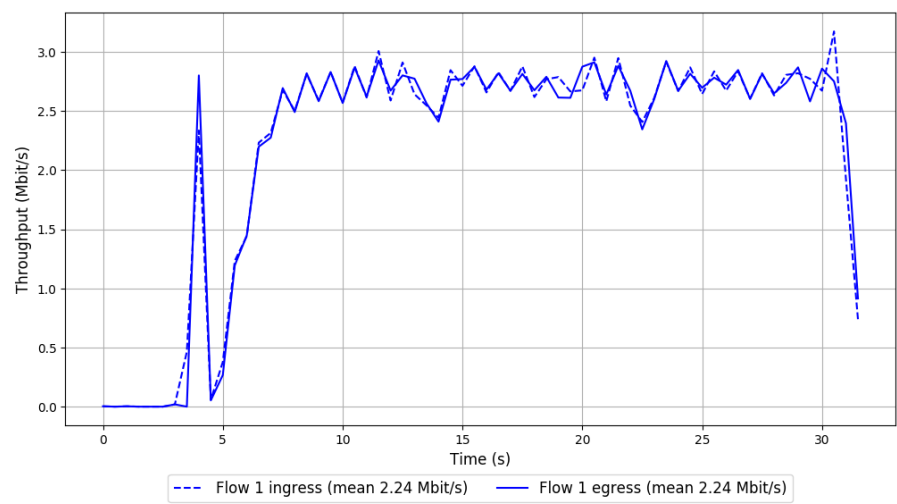
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.348 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-21 16:30:54

End at: 2017-09-21 16:31:24

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

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

Loss rate: 0.00%

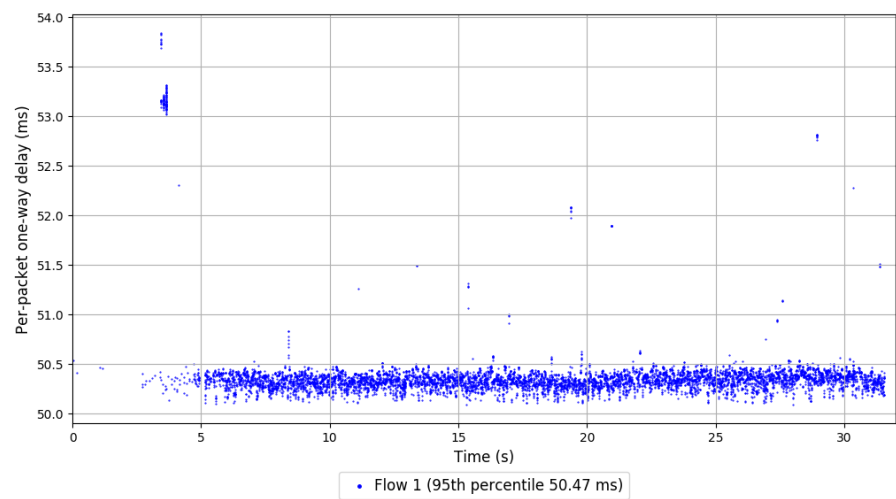
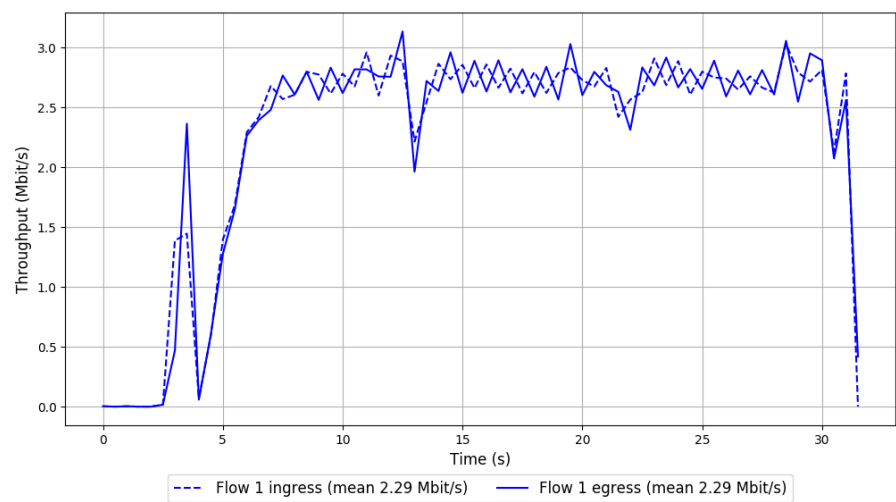
-- Flow 1:

Average throughput: 2.29 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-21 16:41:24

End at: 2017-09-21 16:41:54

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 54.061 ms

Loss rate: 0.00%

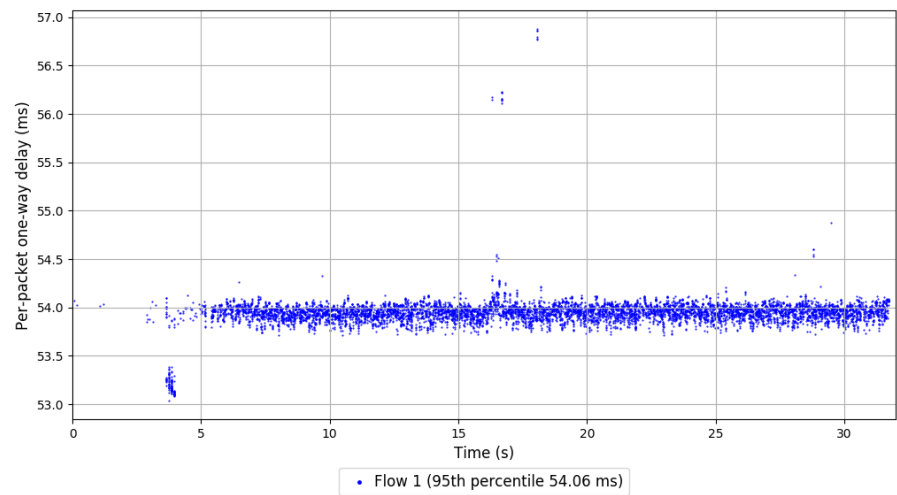
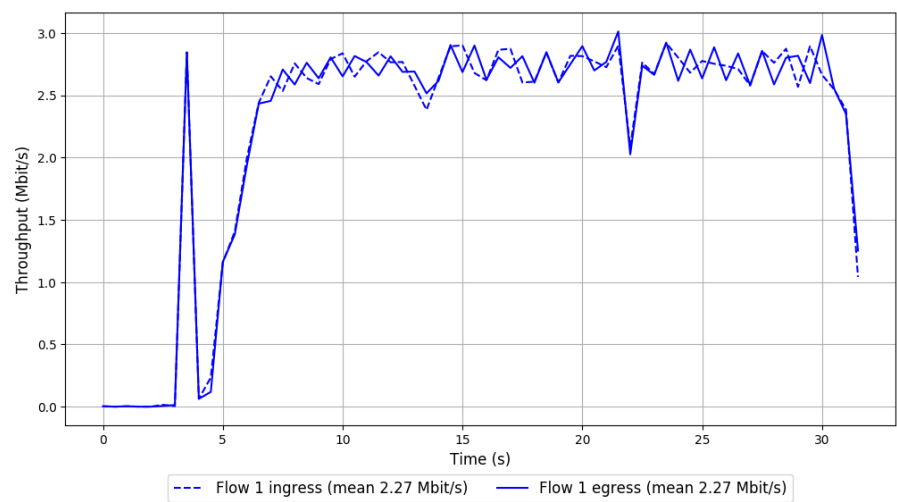
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 54.061 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-21 16:51:44

End at: 2017-09-21 16:52:14

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.649 ms

Loss rate: 0.00%

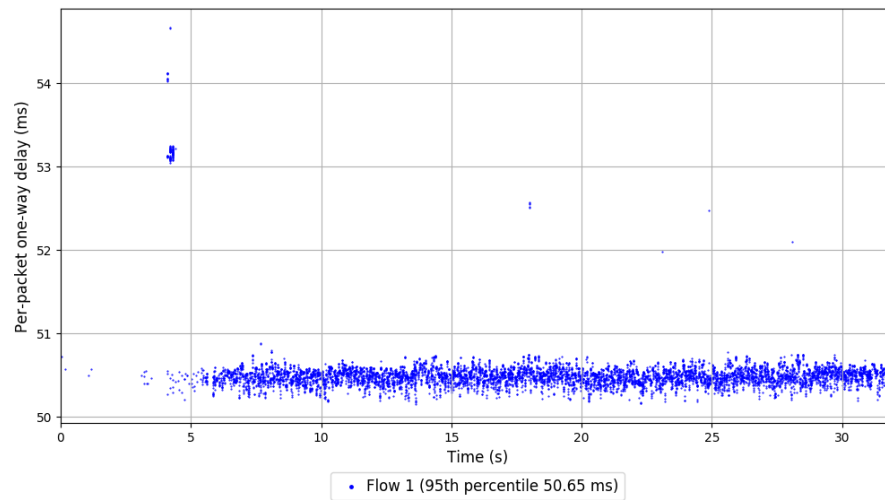
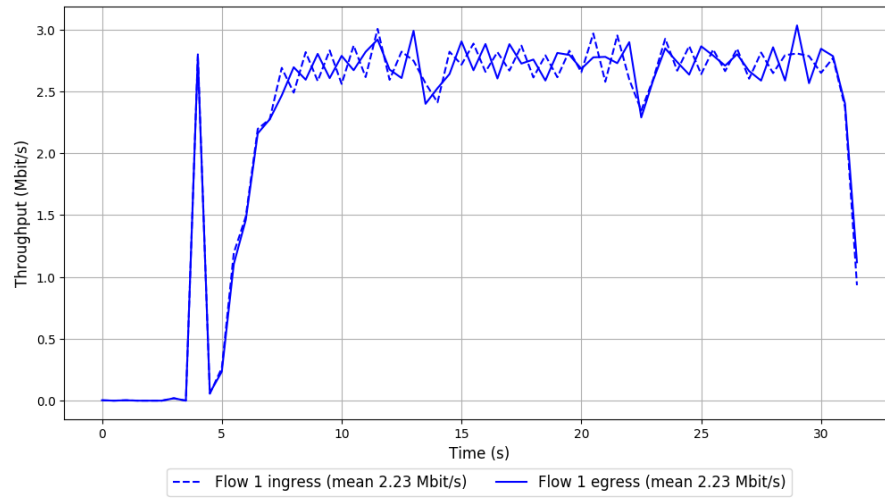
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.649 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-21 17:02:17

End at: 2017-09-21 17:02:47

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 54.175 ms

Loss rate: 0.00%

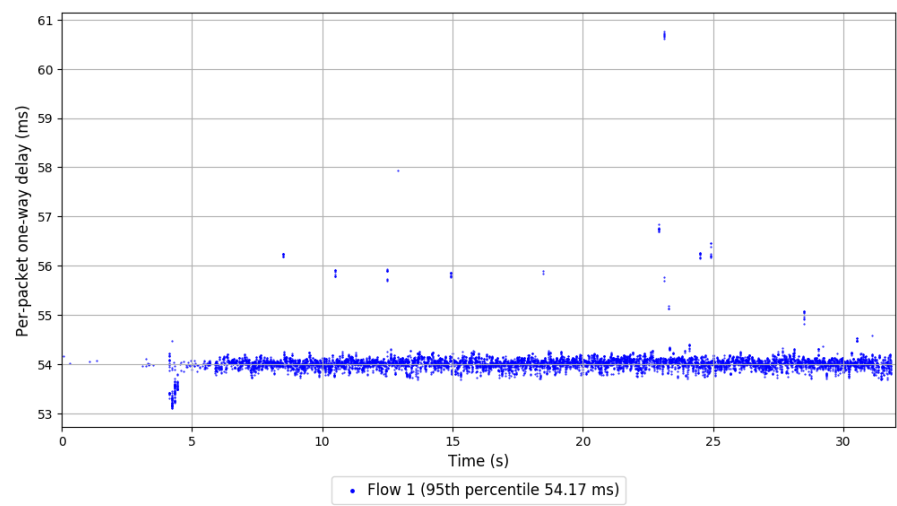
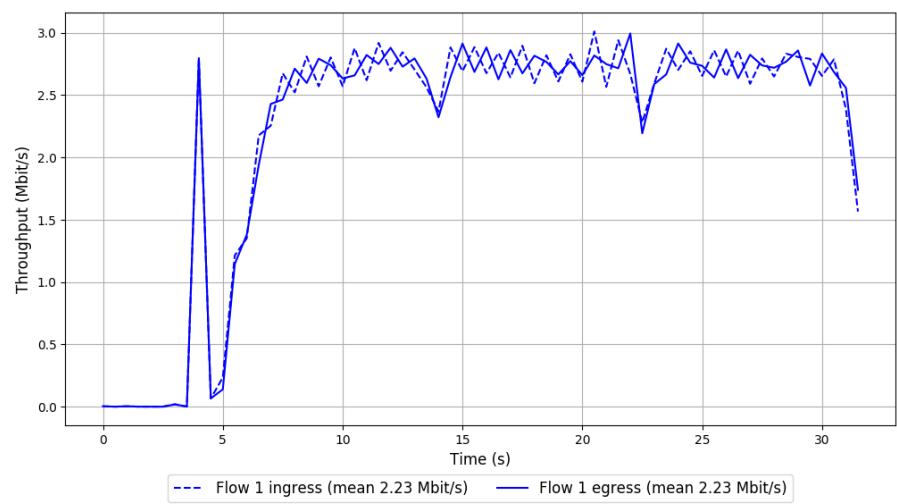
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 54.175 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-21 17:12:55

End at: 2017-09-21 17:13:25

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.374 ms

Loss rate: 0.02%

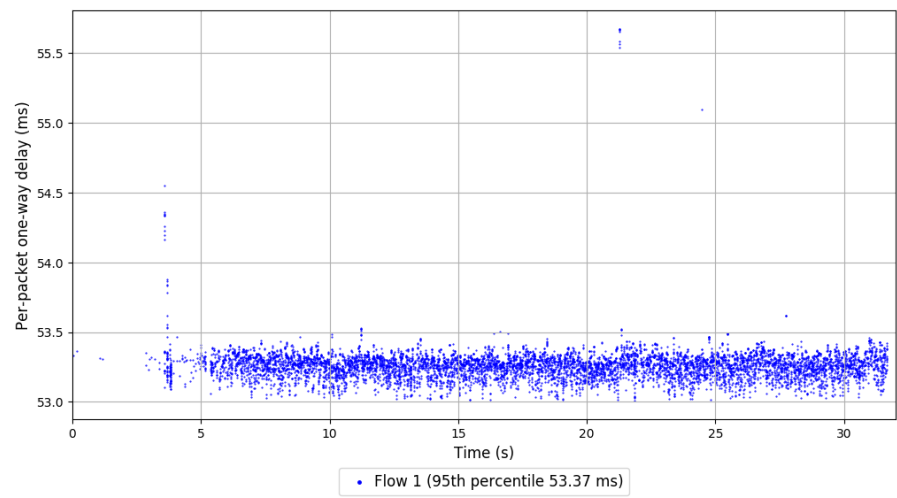
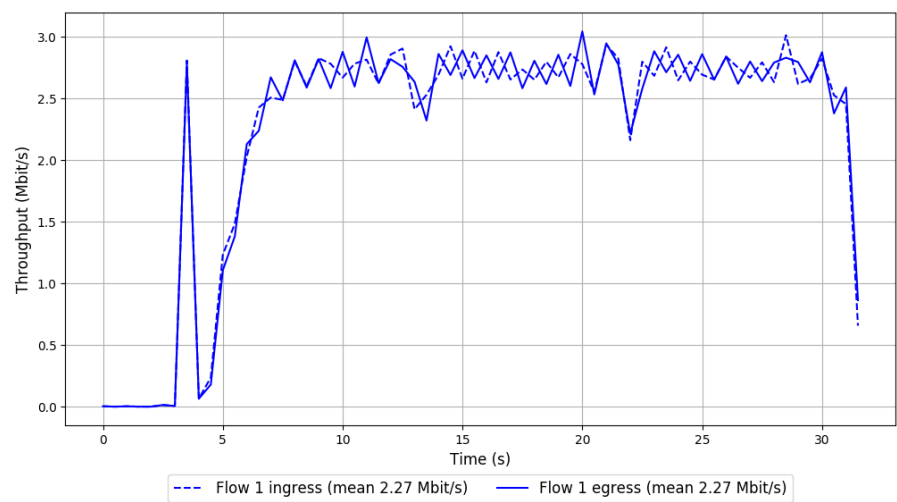
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.374 ms

Loss rate: 0.02%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-21 17:23:13

End at: 2017-09-21 17:23:43

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.611 ms

Loss rate: 0.00%

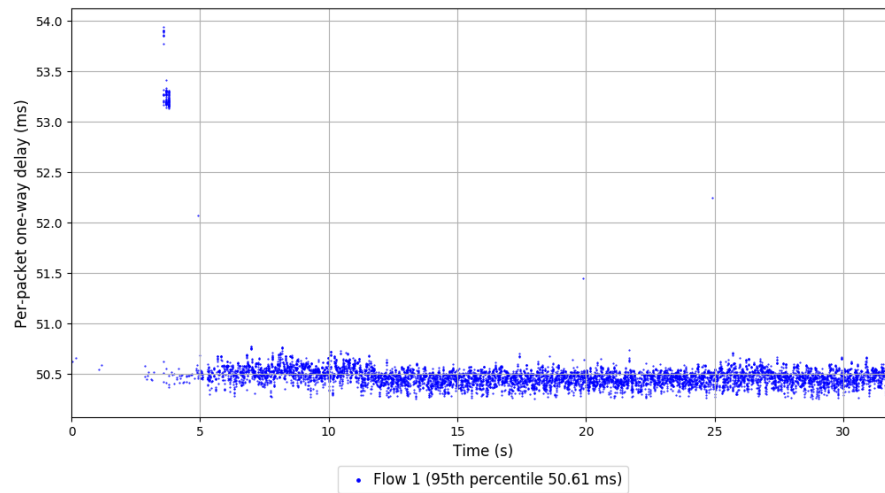
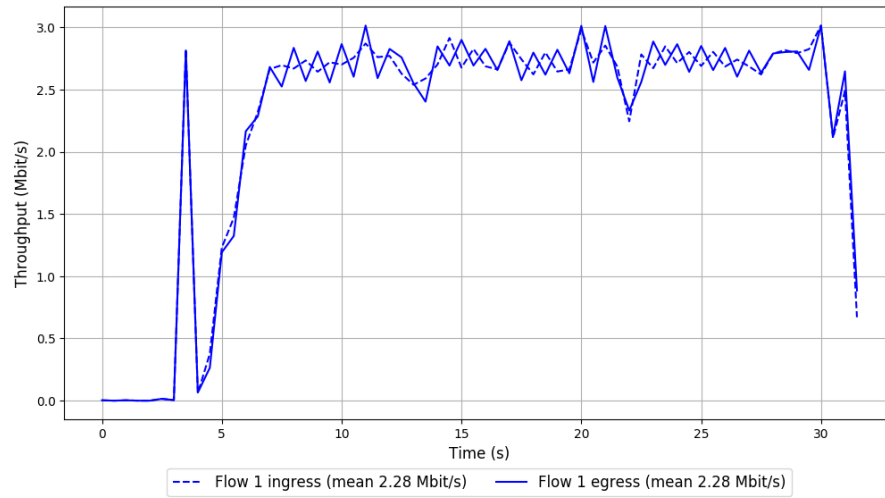
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.611 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-21 17:33:43

End at: 2017-09-21 17:34:13

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 54.039 ms

Loss rate: 0.00%

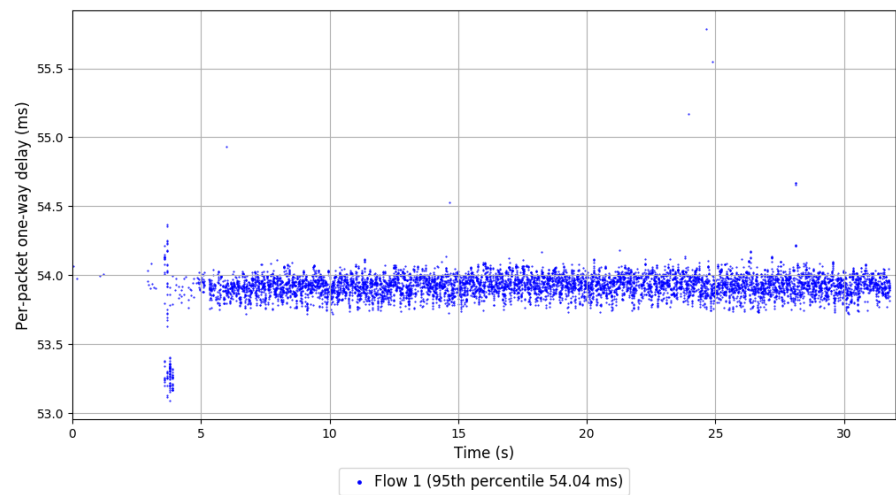
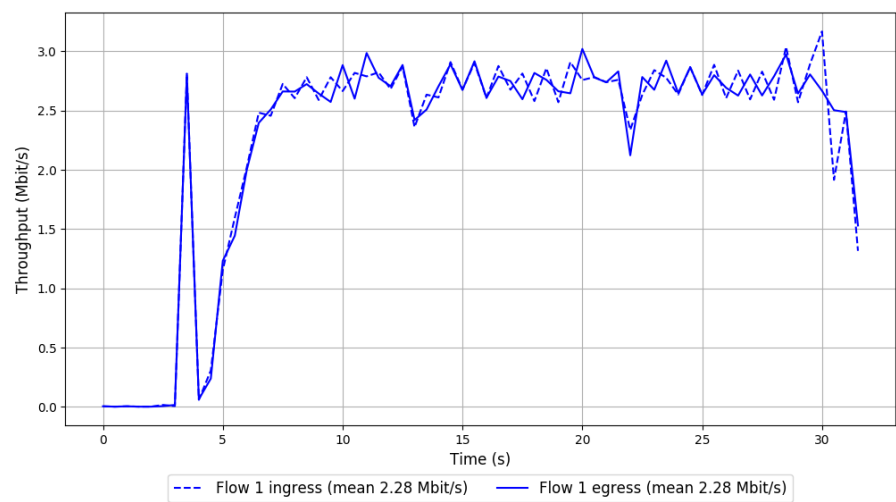
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 54.039 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-21 17:44:30

End at: 2017-09-21 17:45:00

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.225 ms

Loss rate: 0.00%

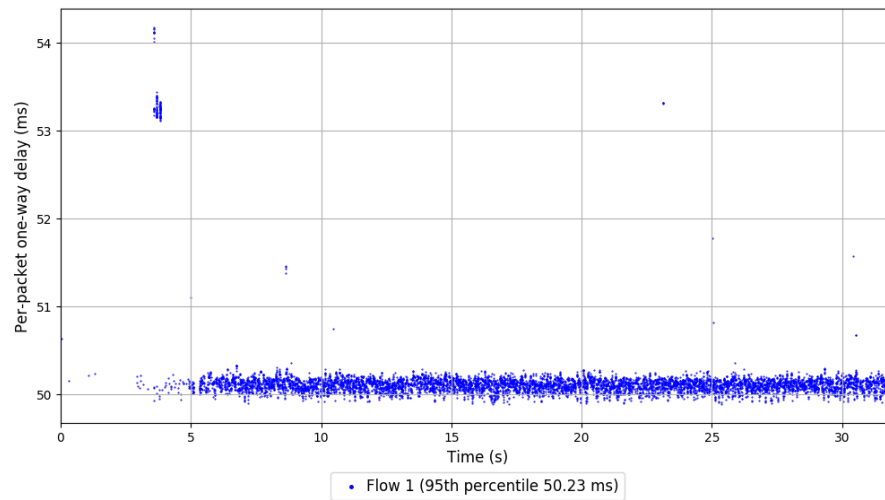
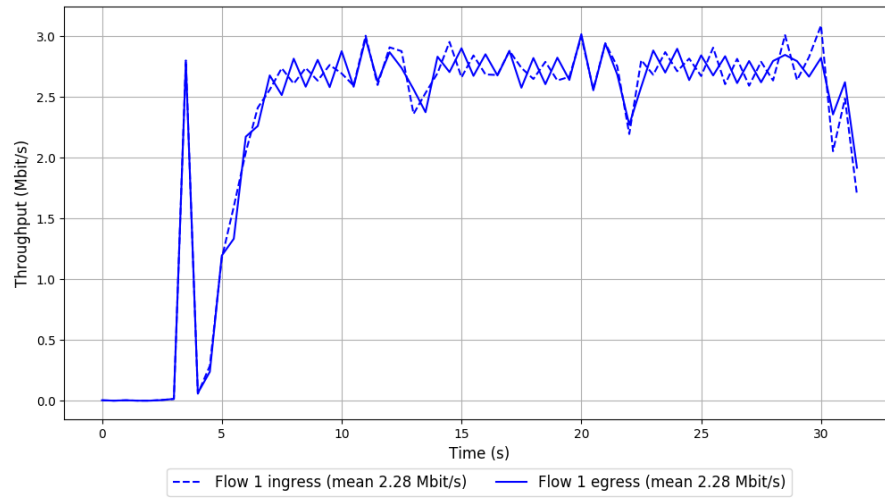
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.225 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-21 16:15:31

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

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 54.011 ms

Loss rate: 0.40%

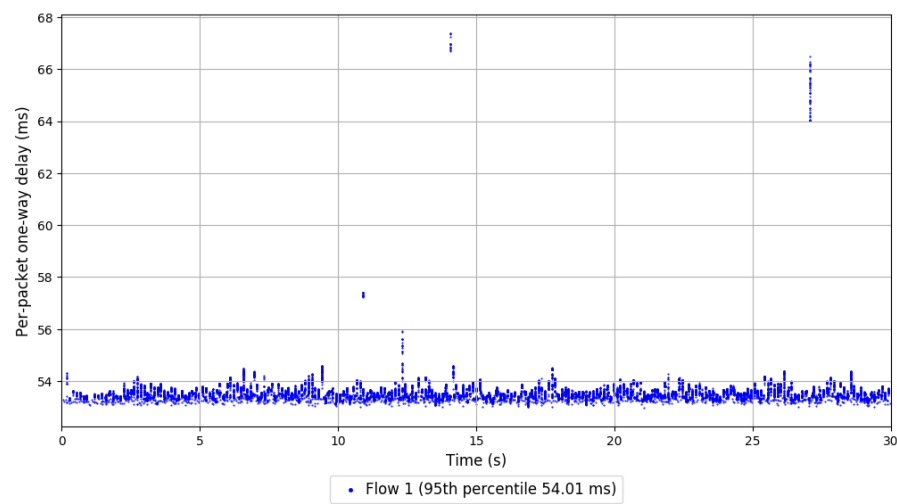
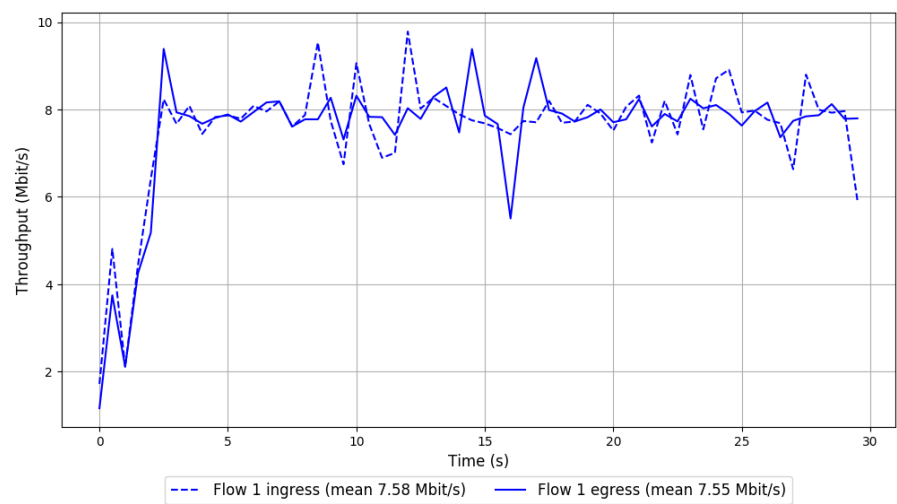
-- Flow 1:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 54.011 ms

Loss rate: 0.40%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-21 16:25:51

End at: 2017-09-21 16:26:21

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 53.981 ms

Loss rate: 0.51%

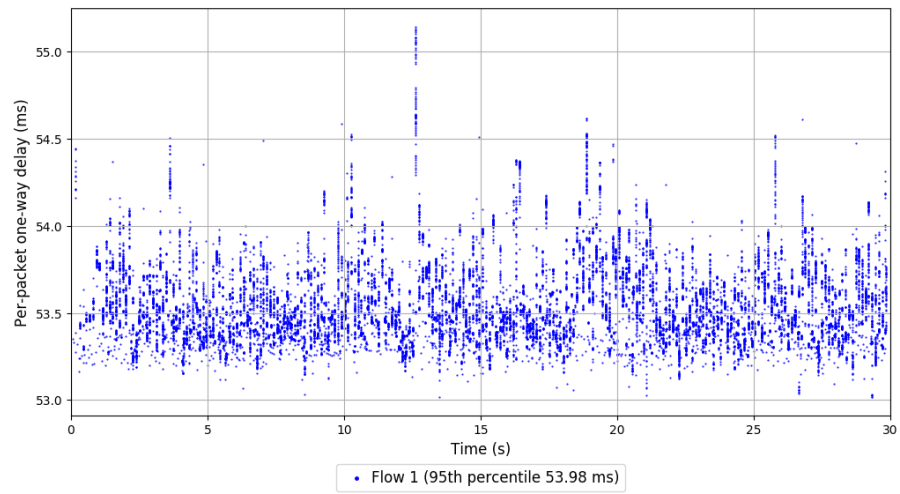
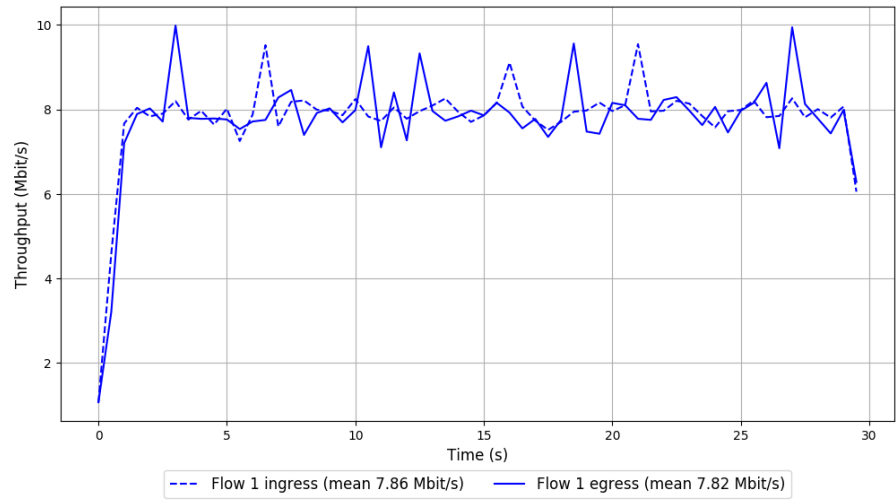
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 53.981 ms

Loss rate: 0.51%

Run 2: Report of Sprout — Data Link

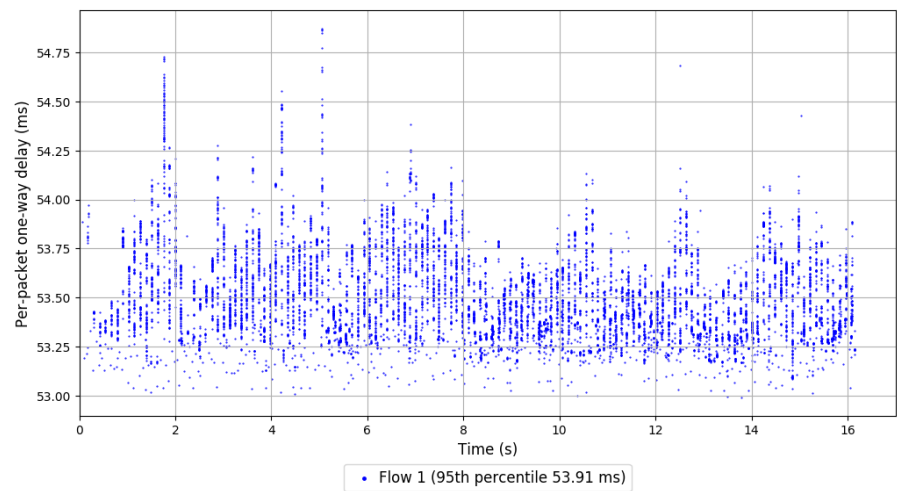
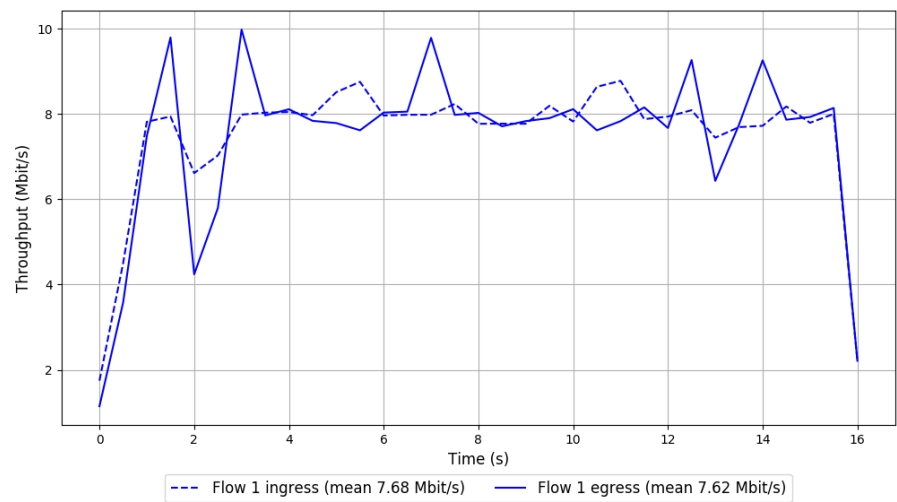


Run 3: Statistics of Sprout

Start at: 2017-09-21 16:36:33

End at: 2017-09-21 16:37:03

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-21 16:46:45

End at: 2017-09-21 16:47:15

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.67 Mbit/s

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

Loss rate: 0.66%

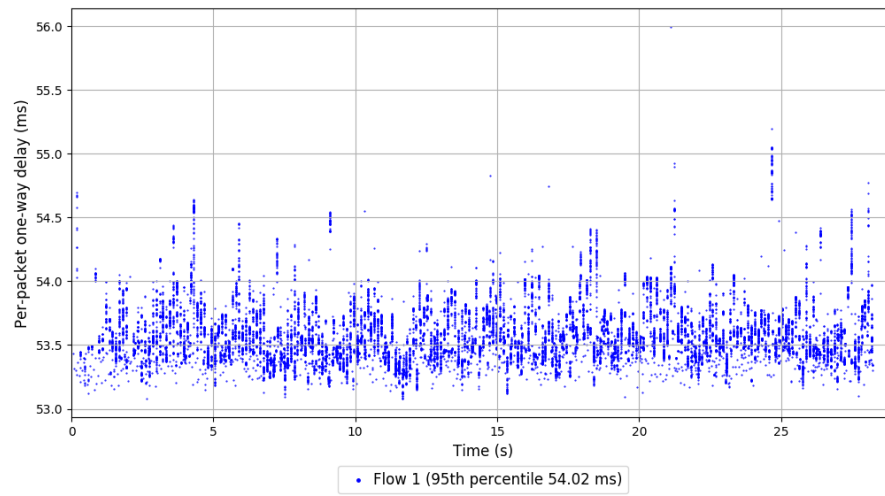
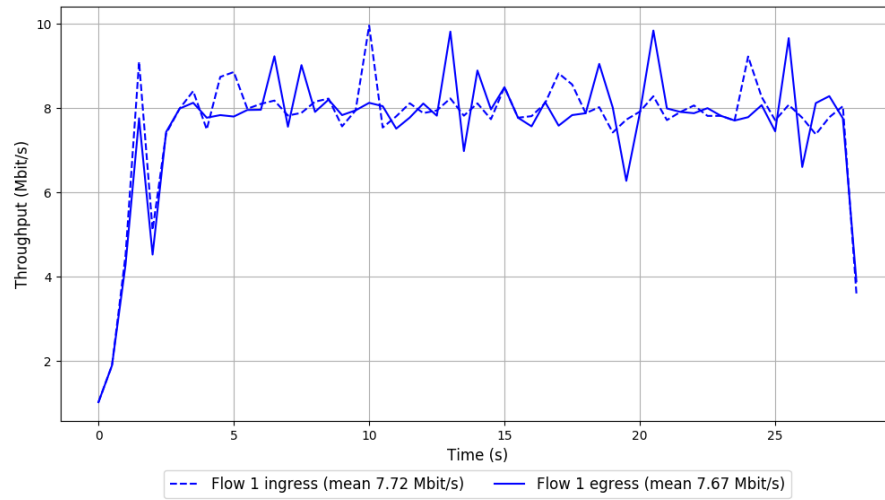
-- Flow 1:

Average throughput: 7.67 Mbit/s

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

Loss rate: 0.66%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-21 16:57:14

End at: 2017-09-21 16:57:44

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 54.040 ms

Loss rate: 0.14%

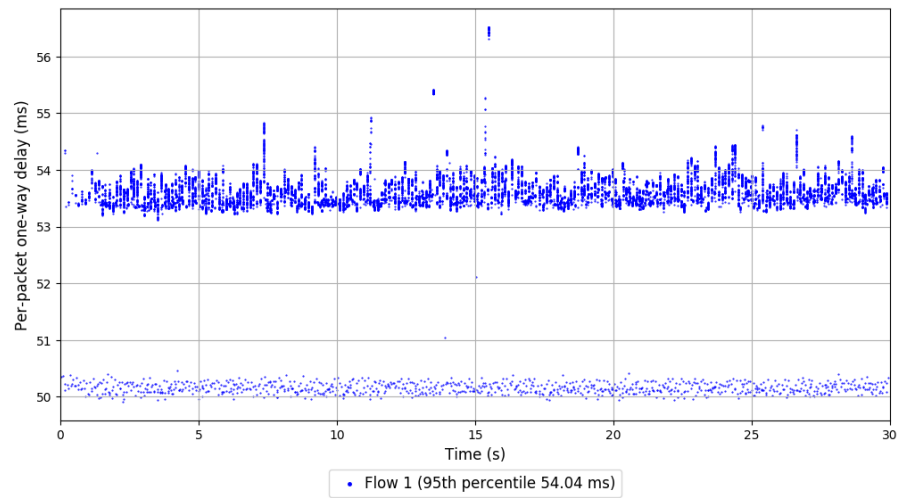
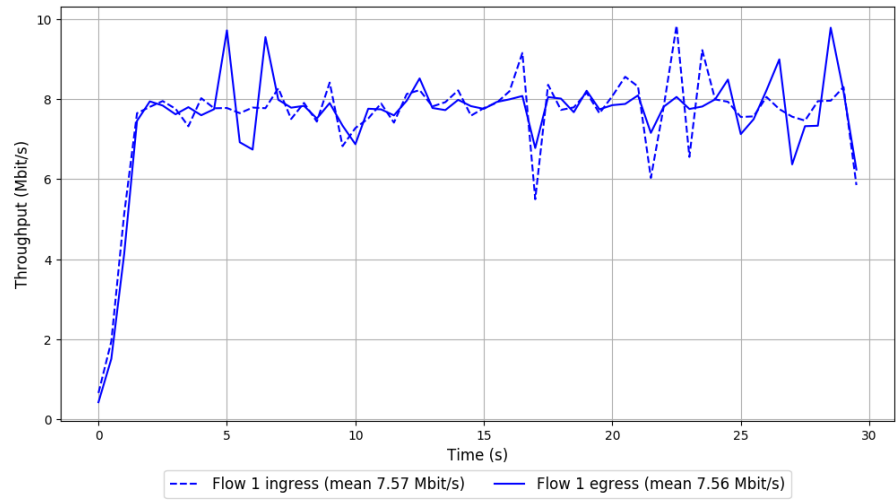
-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 54.040 ms

Loss rate: 0.14%

Run 5: Report of Sprout — Data Link

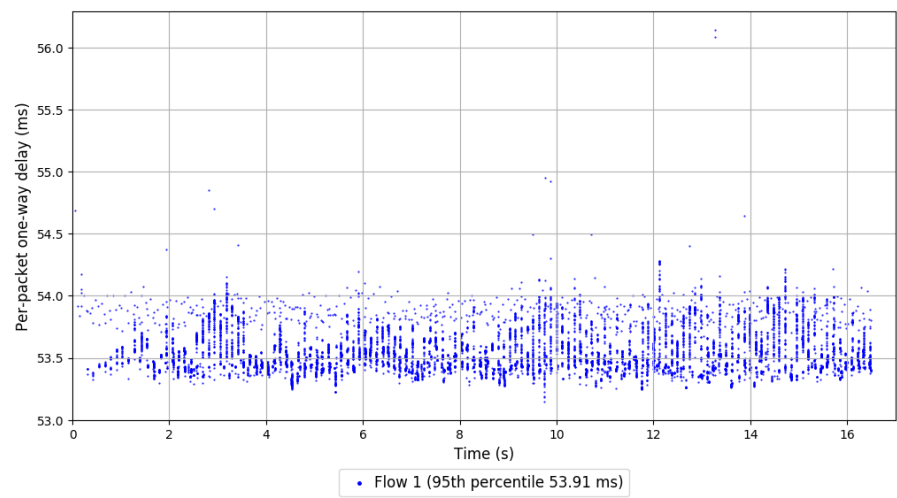
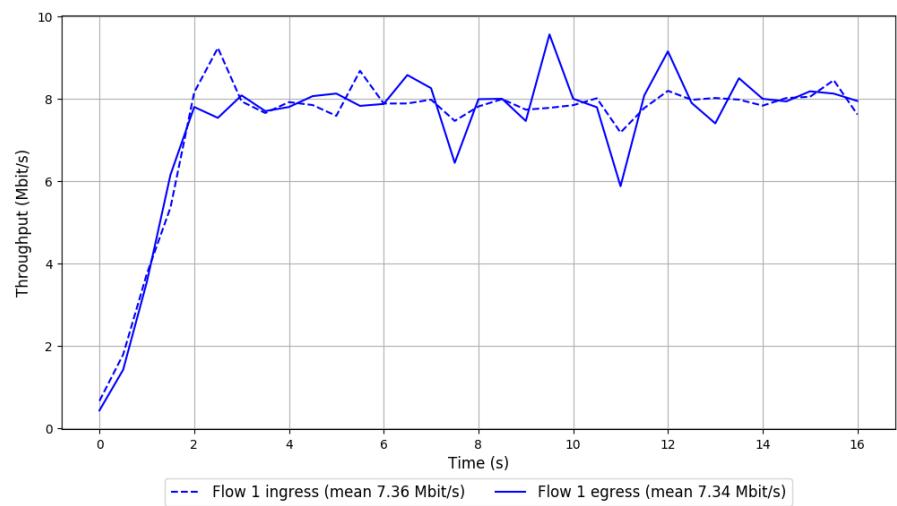


Run 6: Statistics of Sprout

Start at: 2017-09-21 17:07:55

End at: 2017-09-21 17:08:25

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-21 17:18:14

End at: 2017-09-21 17:18:44

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 53.957 ms

Loss rate: 0.08%

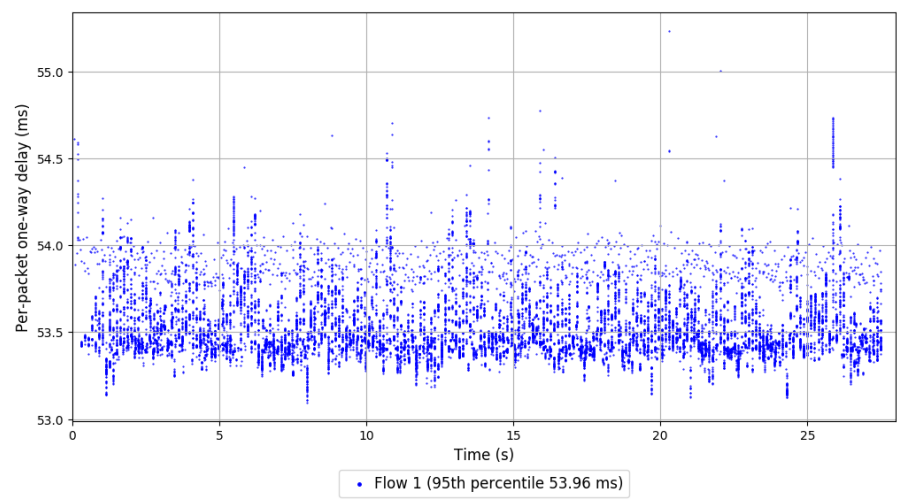
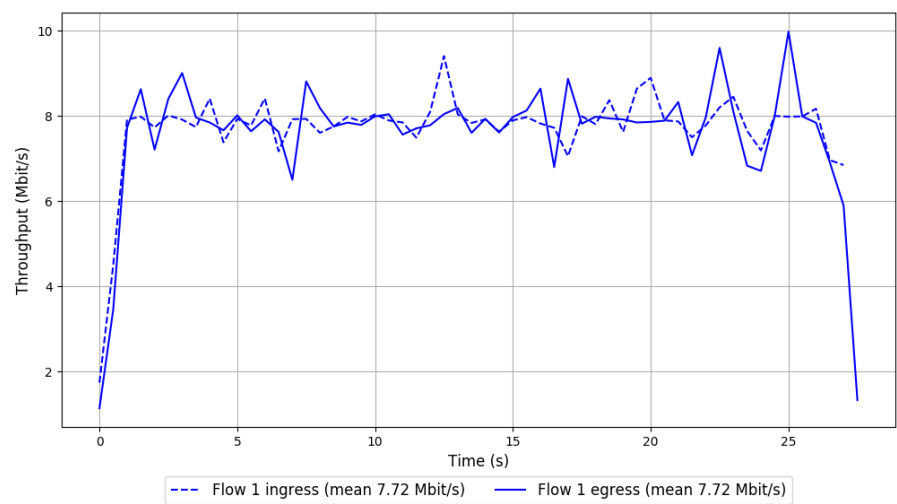
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 53.957 ms

Loss rate: 0.08%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-21 17:28:41

End at: 2017-09-21 17:29:11

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.68 Mbit/s

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

Loss rate: 0.72%

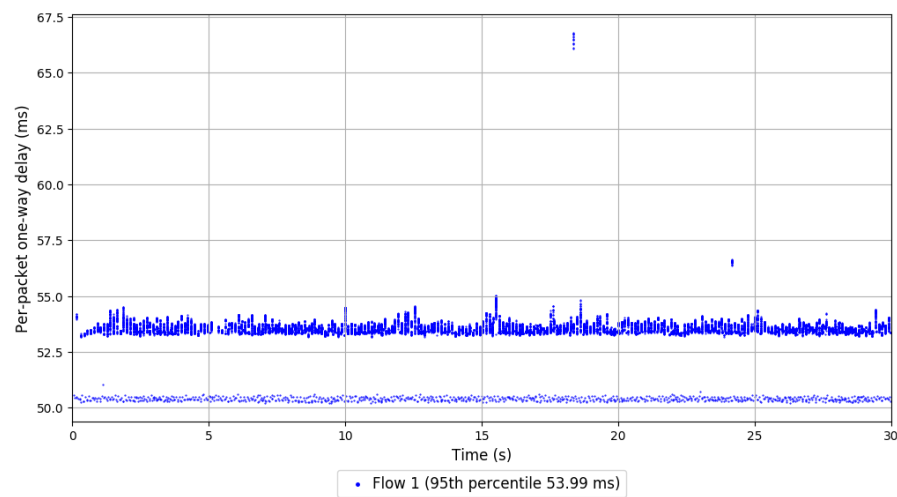
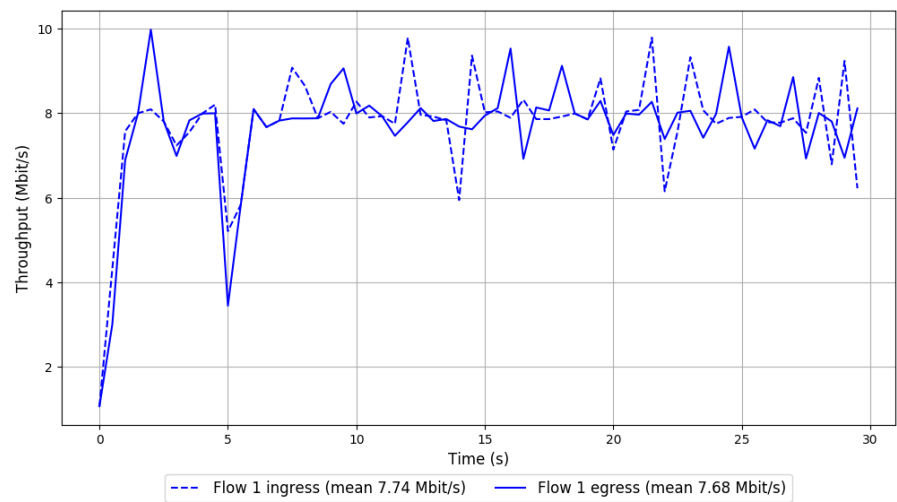
-- Flow 1:

Average throughput: 7.68 Mbit/s

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

Loss rate: 0.72%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-21 17:39:28

End at: 2017-09-21 17:39:58

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 53.957 ms

Loss rate: 0.14%

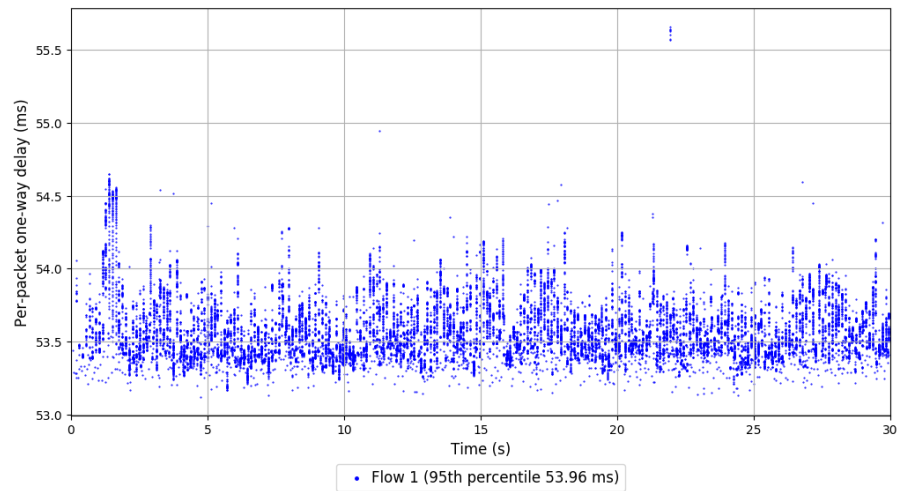
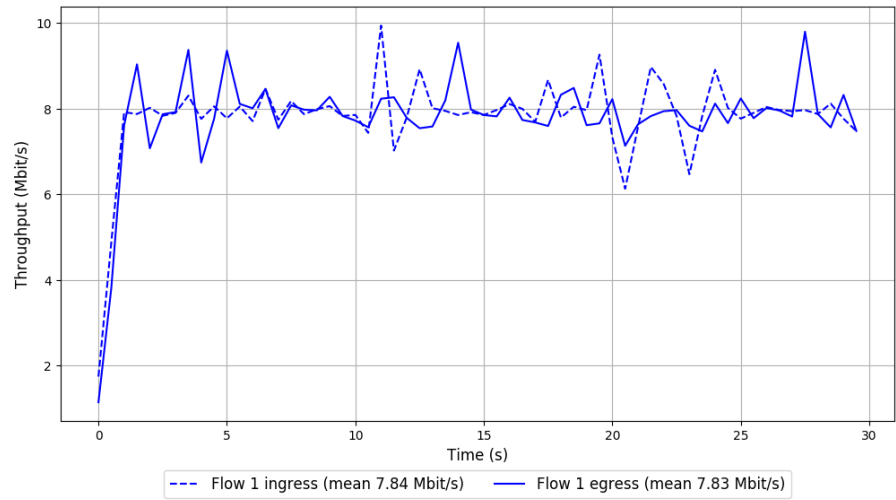
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 53.957 ms

Loss rate: 0.14%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-21 17:50:16

End at: 2017-09-21 17:50:46

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.026 ms

Loss rate: 0.09%

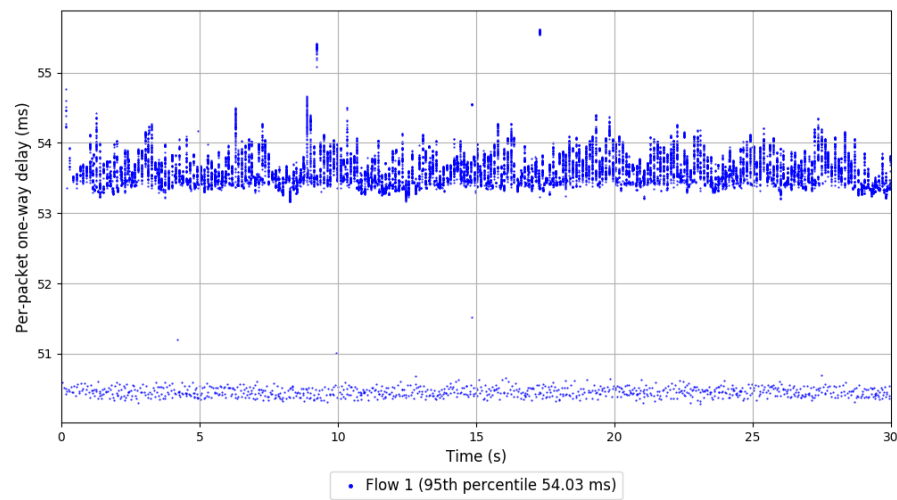
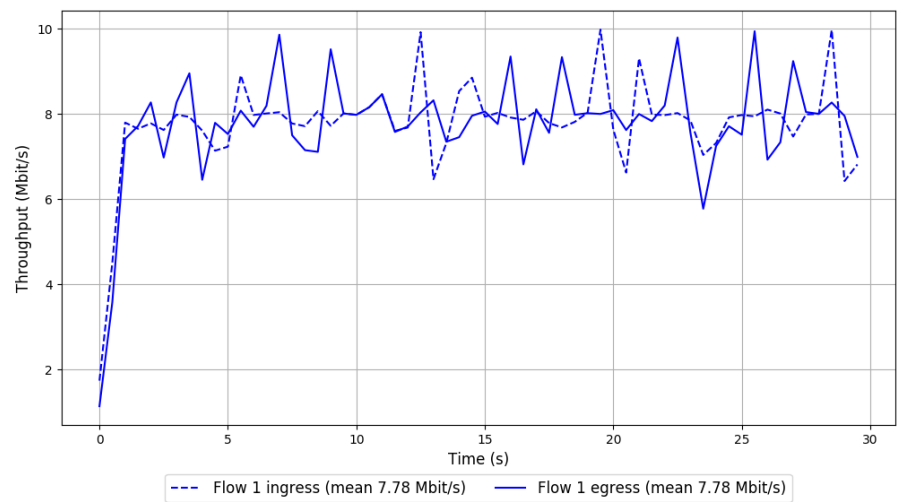
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.026 ms

Loss rate: 0.09%

Run 10: Report of Sprout — Data Link

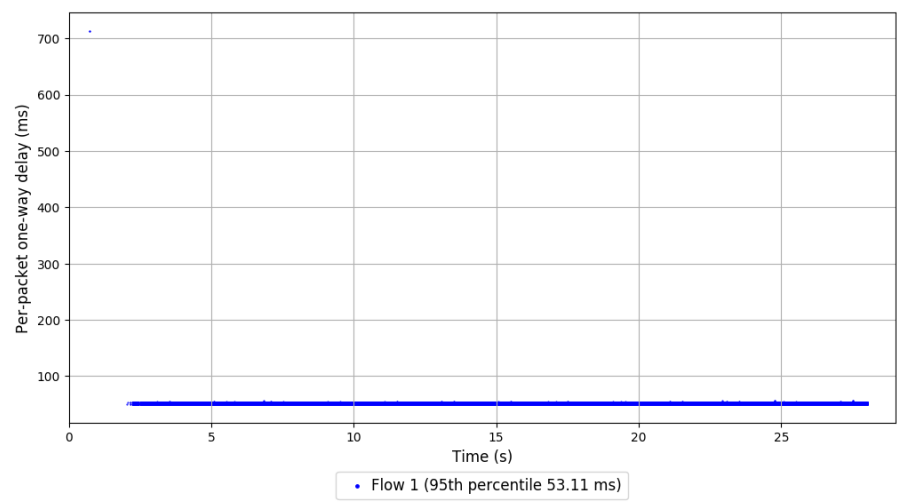
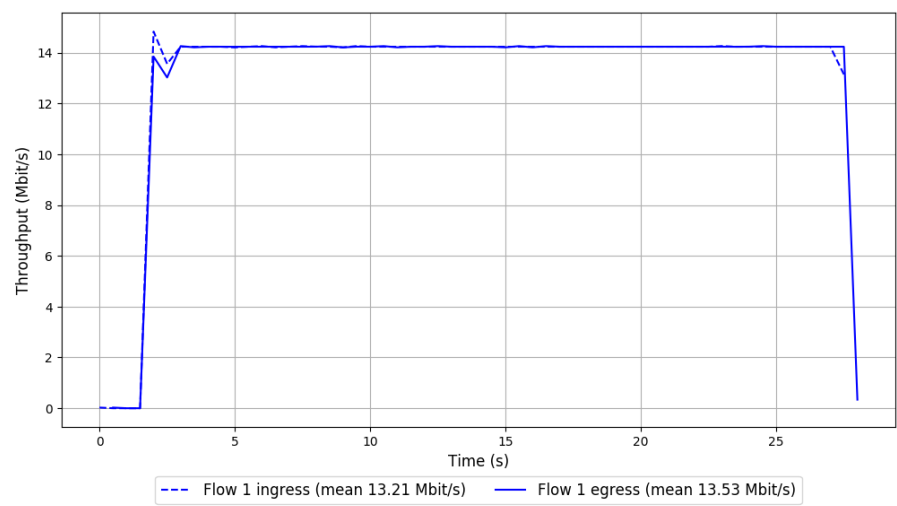


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-21 16:14:52
End at: 2017-09-21 16:15:22

# Below is generated by plot.py at 2017-09-21 19:01:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.53 Mbit/s
95th percentile per-packet one-way delay: 53.107 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 13.53 Mbit/s
95th percentile per-packet one-way delay: 53.107 ms
Loss rate: 0.01%
```

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

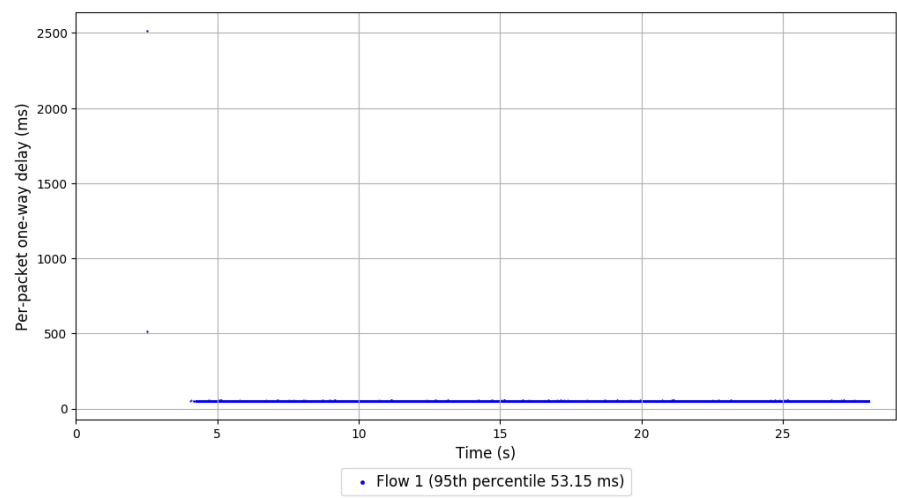
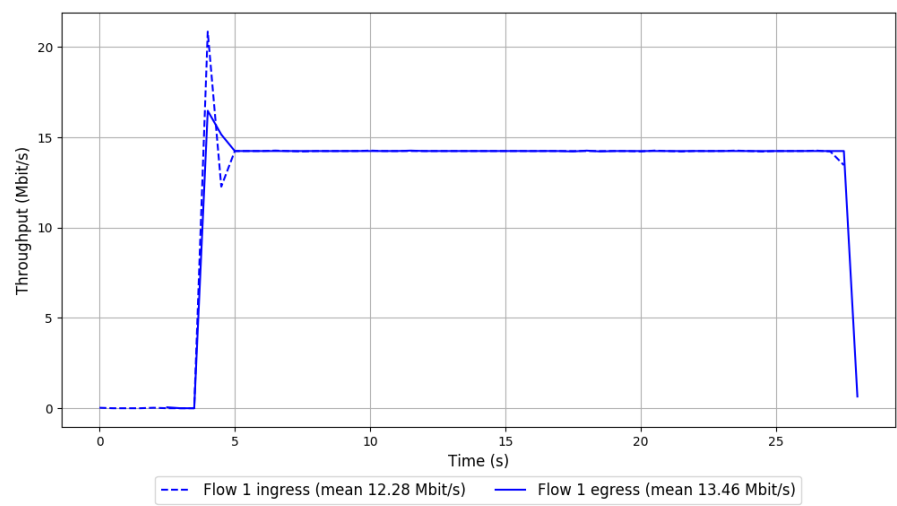


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-21 16:25:12
End at: 2017-09-21 16:25:43

# Below is generated by plot.py at 2017-09-21 19:01:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 53.151 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 53.151 ms
Loss rate: 0.01%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-21 16:35:36

End at: 2017-09-21 16:36:06

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.32 Mbit/s

95th percentile per-packet one-way delay: 53.873 ms

Loss rate: 0.01%

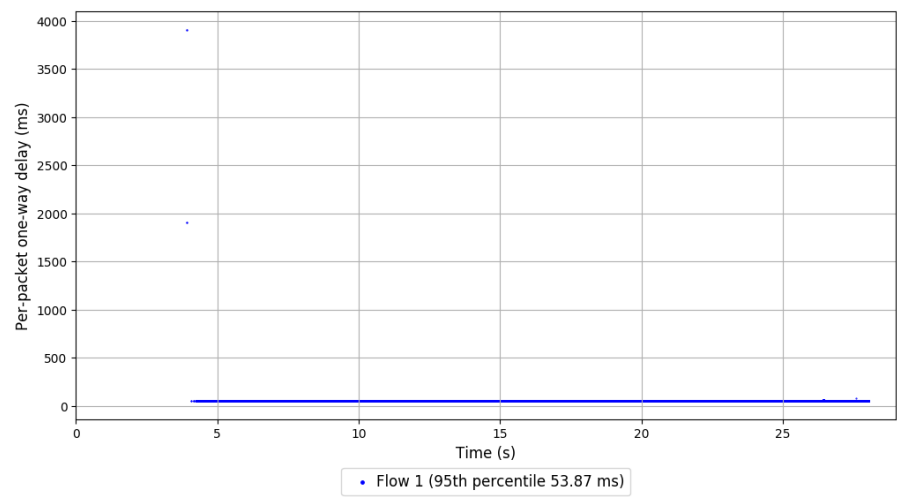
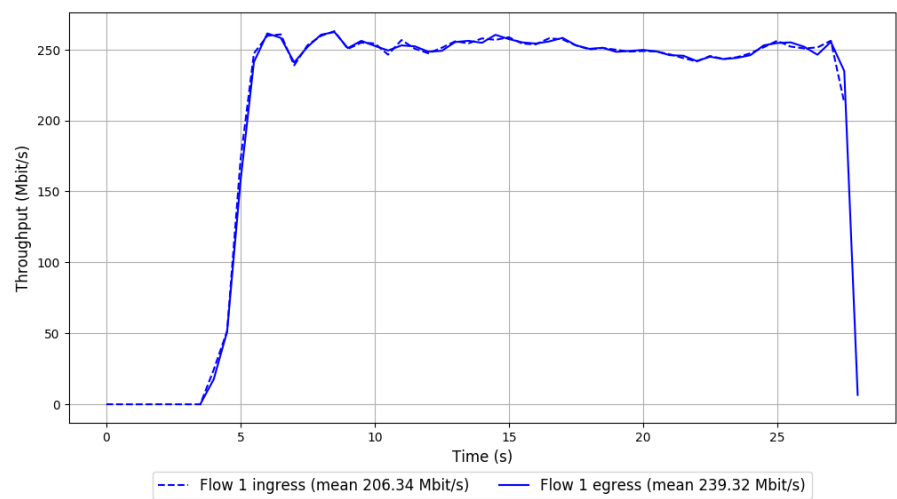
-- Flow 1:

Average throughput: 239.32 Mbit/s

95th percentile per-packet one-way delay: 53.873 ms

Loss rate: 0.01%

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

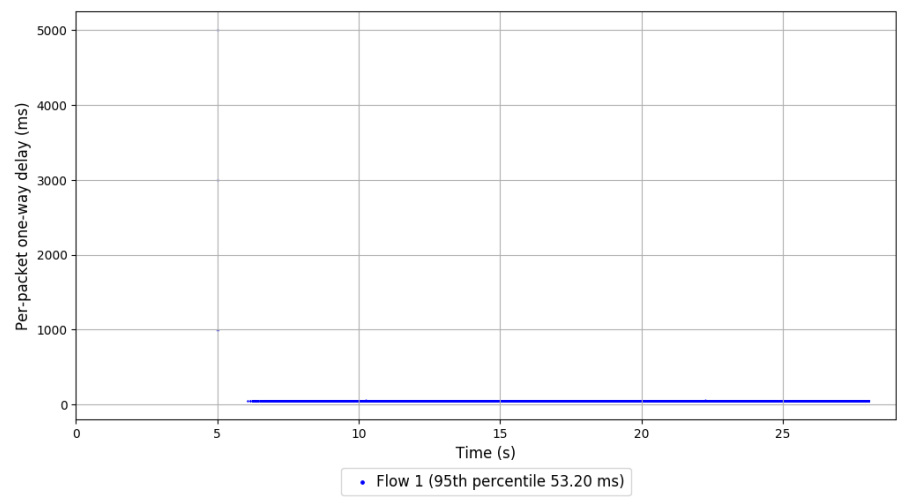
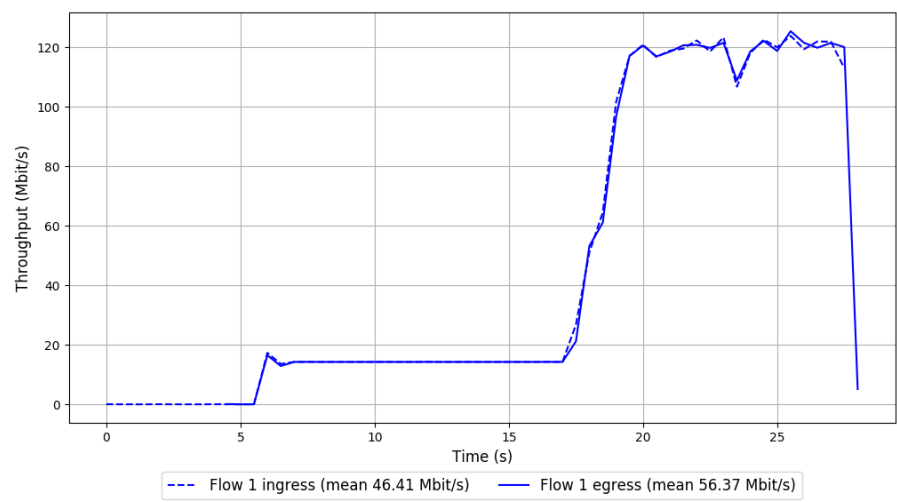


Run 4: Statistics of TaoVA-100x

Start at: 2017-09-21 16:46:03

End at: 2017-09-21 16:46:33

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-21 16:56:28

End at: 2017-09-21 16:56:58

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.62 Mbit/s

95th percentile per-packet one-way delay: 53.203 ms

Loss rate: 0.01%

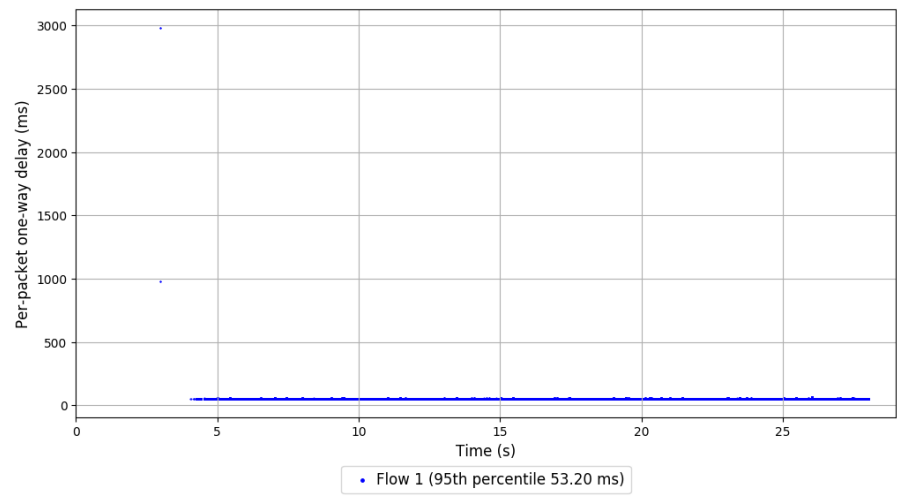
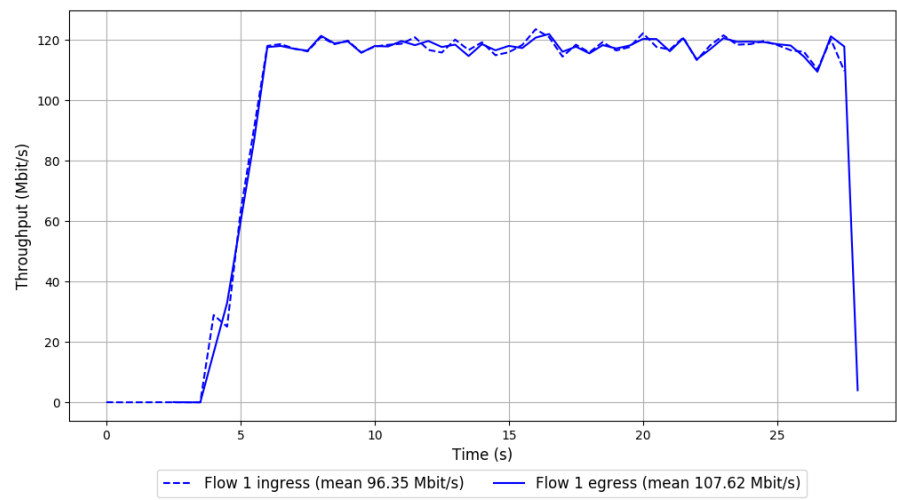
-- Flow 1:

Average throughput: 107.62 Mbit/s

95th percentile per-packet one-way delay: 53.203 ms

Loss rate: 0.01%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-21 17:06:58

End at: 2017-09-21 17:07:28

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.13 Mbit/s

95th percentile per-packet one-way delay: 53.290 ms

Loss rate: 0.01%

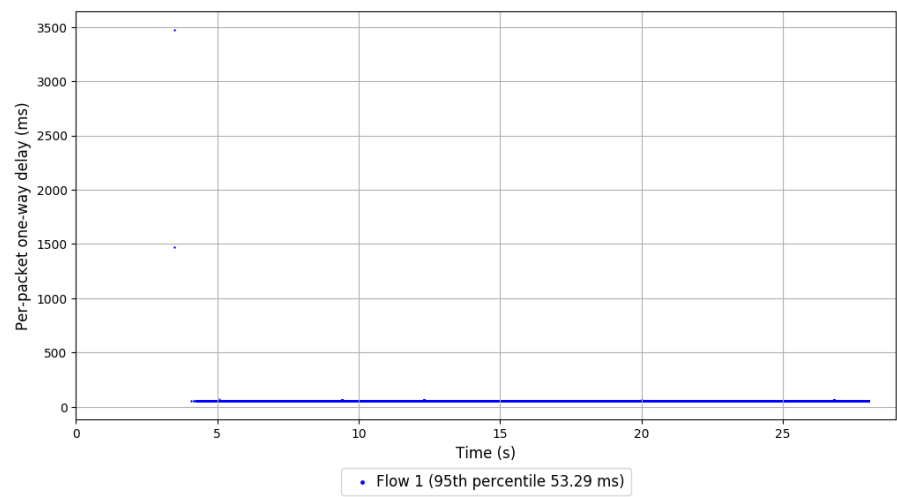
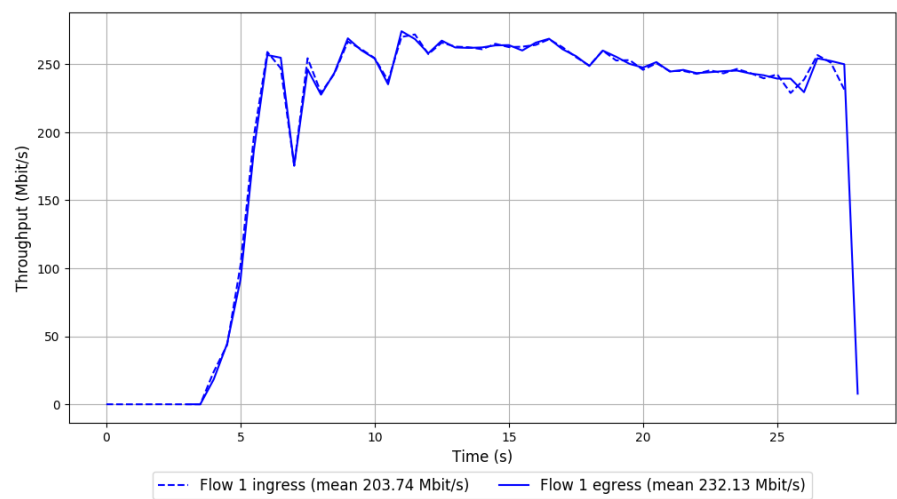
-- Flow 1:

Average throughput: 232.13 Mbit/s

95th percentile per-packet one-way delay: 53.290 ms

Loss rate: 0.01%

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

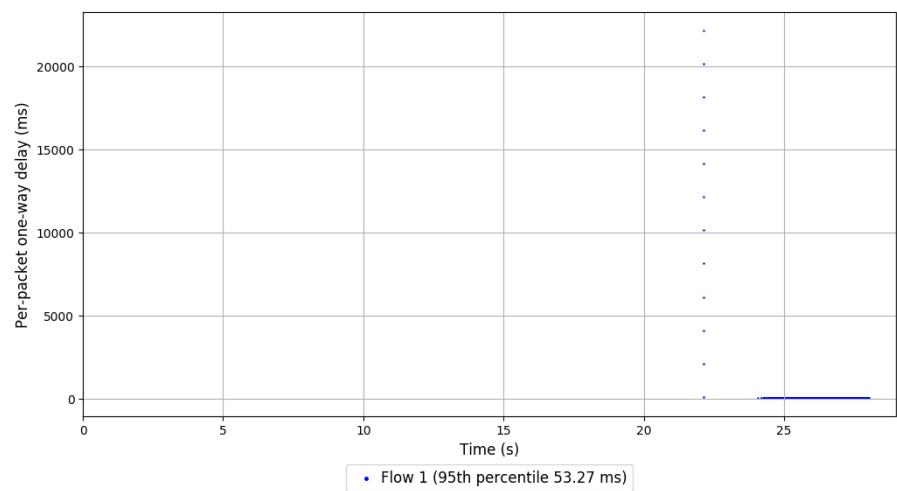
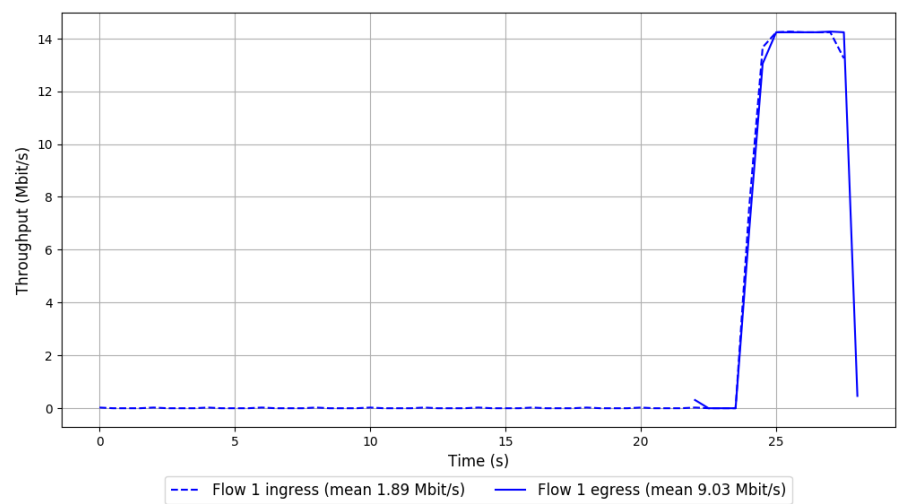


Run 7: Statistics of TaoVA-100x

Start at: 2017-09-21 17:17:37

End at: 2017-09-21 17:18:07

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-21 17:28:00

End at: 2017-09-21 17:28:30

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.58 Mbit/s

95th percentile per-packet one-way delay: 53.250 ms

Loss rate: 0.02%

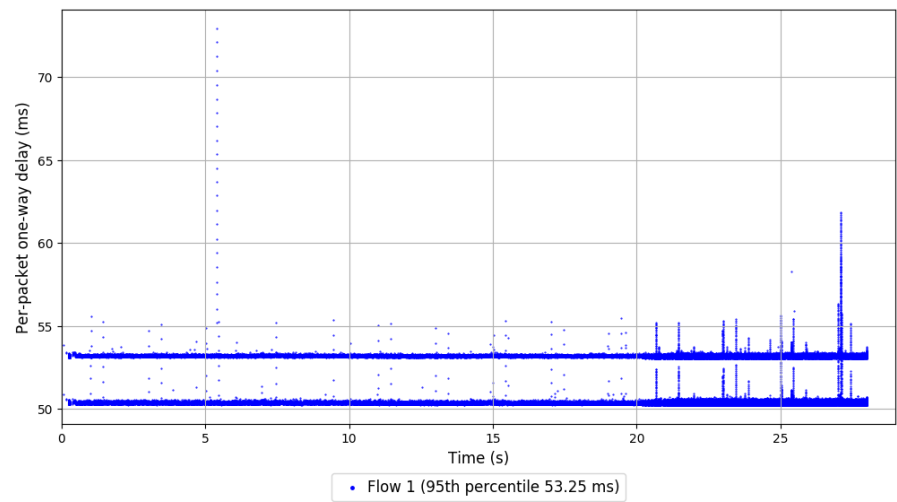
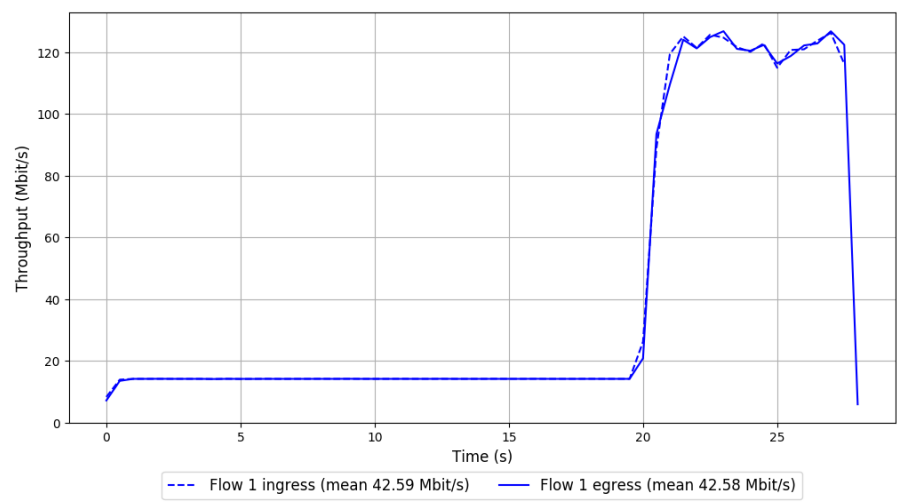
-- Flow 1:

Average throughput: 42.58 Mbit/s

95th percentile per-packet one-way delay: 53.250 ms

Loss rate: 0.02%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-21 17:38:30

End at: 2017-09-21 17:39:00

Below is generated by plot.py at 2017-09-21 19:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.98 Mbit/s

95th percentile per-packet one-way delay: 53.276 ms

Loss rate: 0.05%

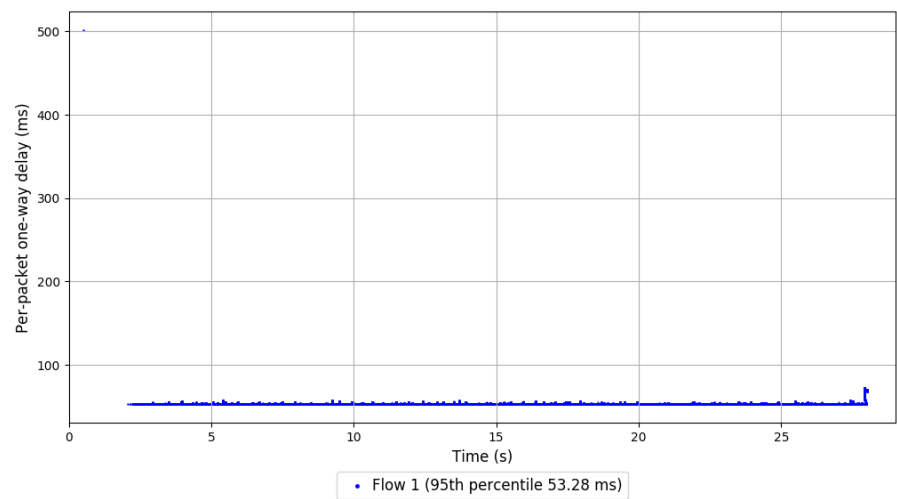
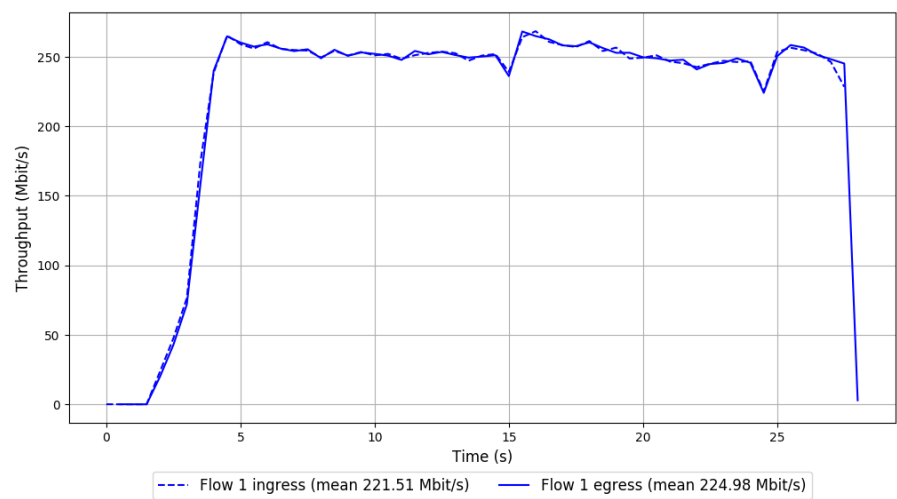
-- Flow 1:

Average throughput: 224.98 Mbit/s

95th percentile per-packet one-way delay: 53.276 ms

Loss rate: 0.05%

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

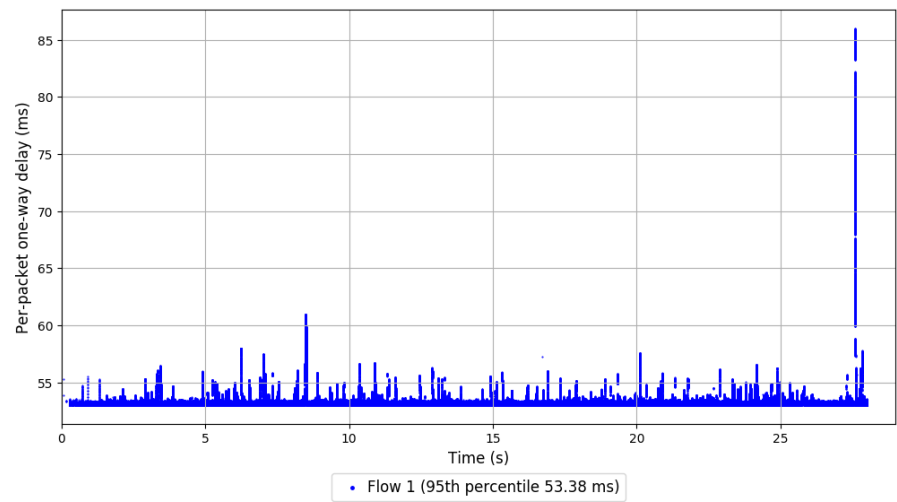
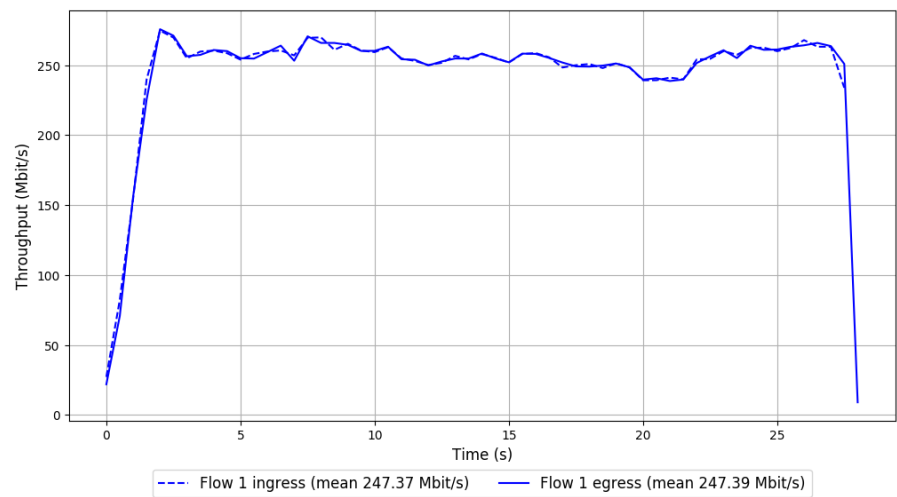


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-21 17:49:16
End at: 2017-09-21 17:49:46

# Below is generated by plot.py at 2017-09-21 19:02:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.39 Mbit/s
95th percentile per-packet one-way delay: 53.377 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 247.39 Mbit/s
95th percentile per-packet one-way delay: 53.377 ms
Loss rate: 0.01%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-21 16:16:08

End at: 2017-09-21 16:16:38

Below is generated by plot.py at 2017-09-21 19:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.79 Mbit/s

95th percentile per-packet one-way delay: 55.474 ms

Loss rate: 0.11%

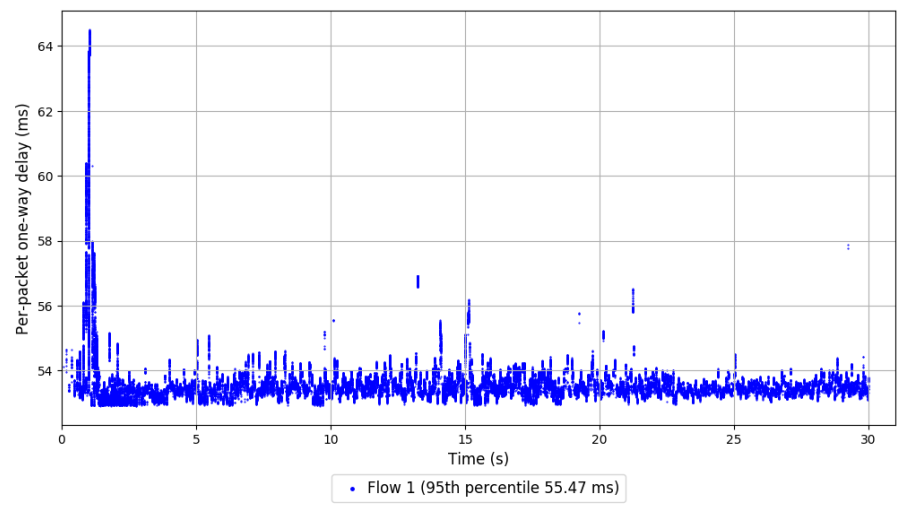
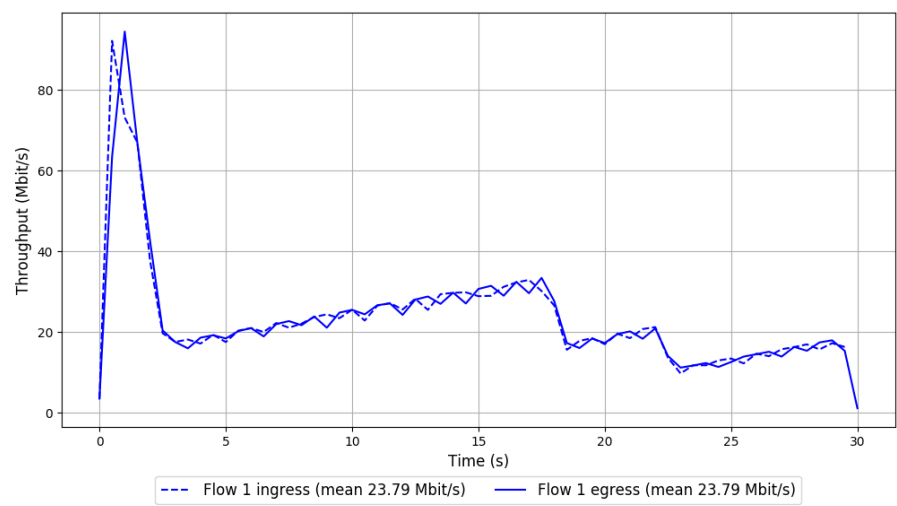
-- Flow 1:

Average throughput: 23.79 Mbit/s

95th percentile per-packet one-way delay: 55.474 ms

Loss rate: 0.11%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-21 16:26:29

End at: 2017-09-21 16:26:59

Below is generated by plot.py at 2017-09-21 19:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 54.060 ms

Loss rate: 0.23%

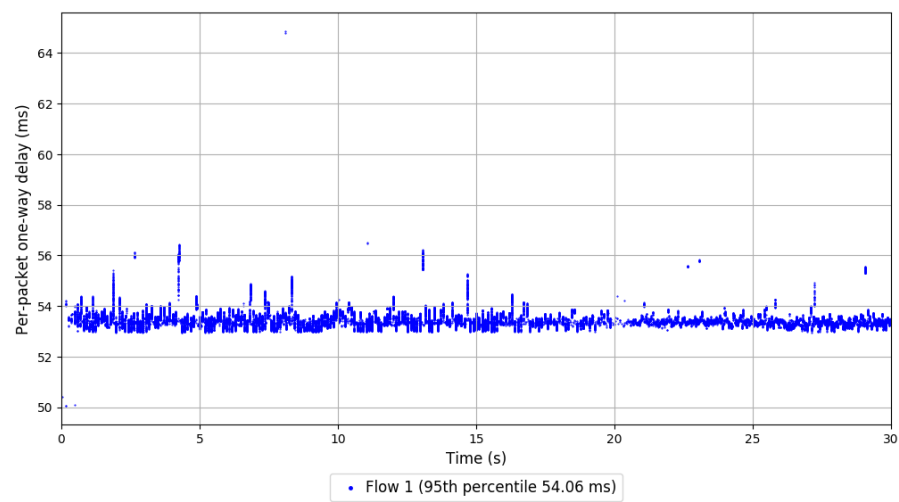
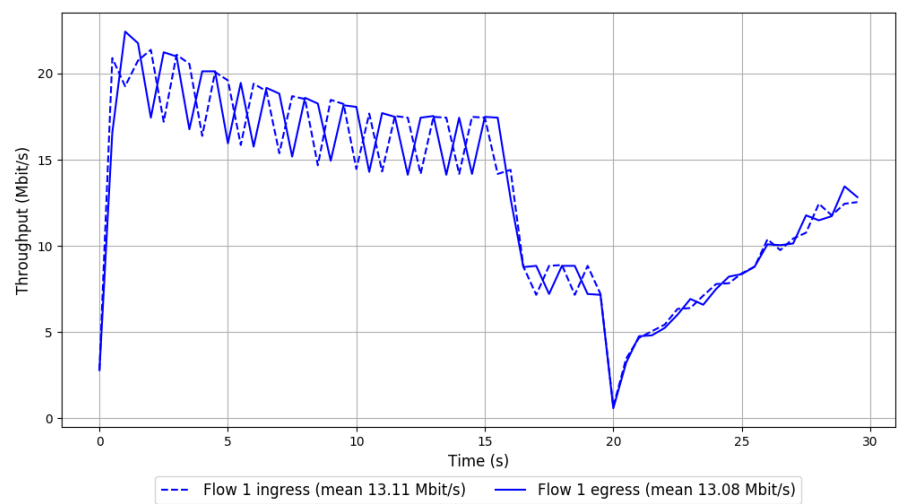
-- Flow 1:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 54.060 ms

Loss rate: 0.23%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-21 16:37:10

End at: 2017-09-21 16:37:40

Below is generated by plot.py at 2017-09-21 19:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.45 Mbit/s

95th percentile per-packet one-way delay: 53.678 ms

Loss rate: 0.51%

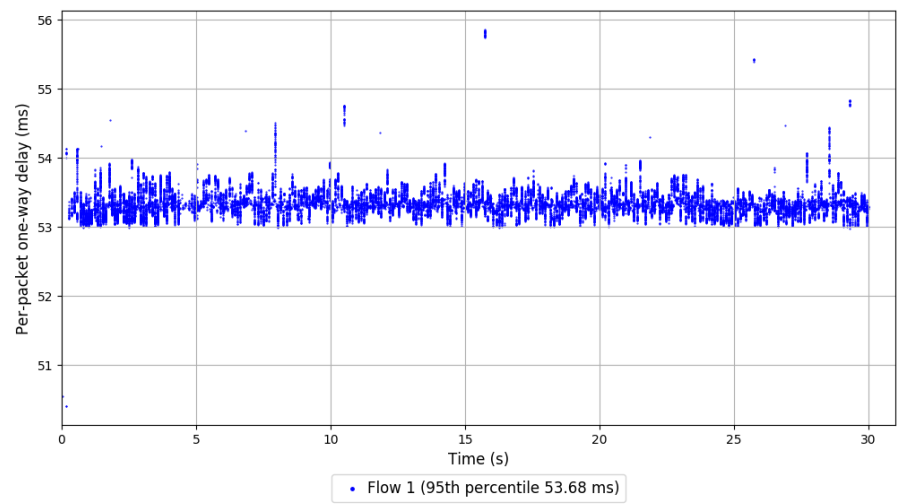
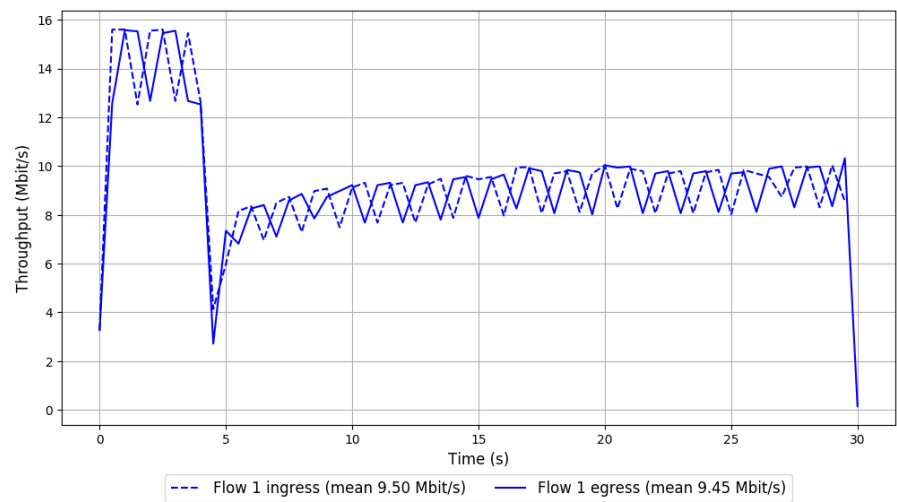
-- Flow 1:

Average throughput: 9.45 Mbit/s

95th percentile per-packet one-way delay: 53.678 ms

Loss rate: 0.51%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-21 16:47:22

End at: 2017-09-21 16:47:52

Below is generated by plot.py at 2017-09-21 19:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.89 Mbit/s

95th percentile per-packet one-way delay: 55.333 ms

Loss rate: 0.02%

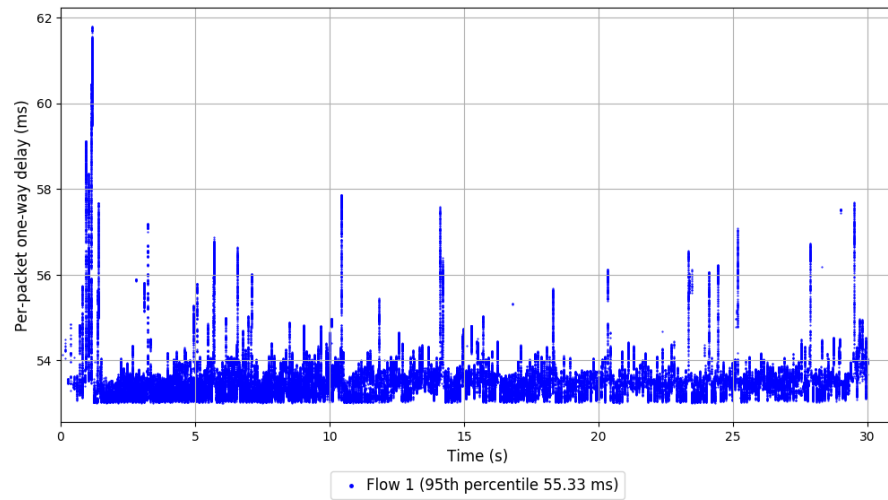
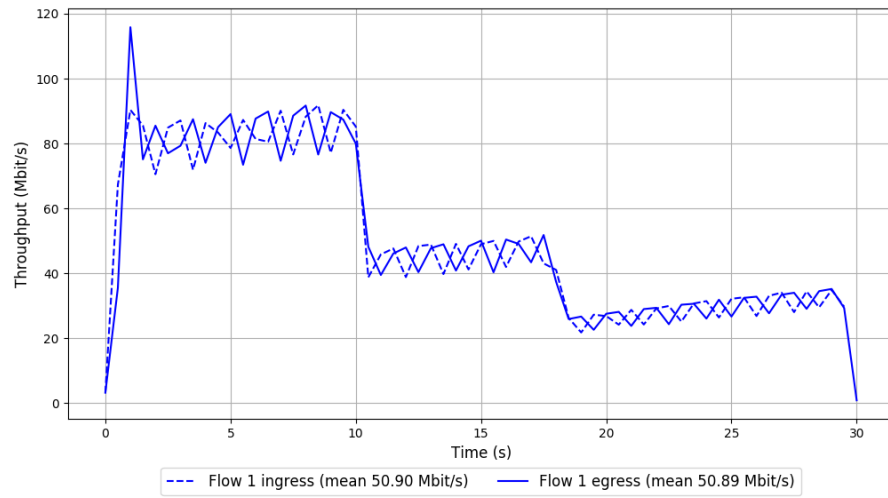
-- Flow 1:

Average throughput: 50.89 Mbit/s

95th percentile per-packet one-way delay: 55.333 ms

Loss rate: 0.02%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-21 16:57:52

End at: 2017-09-21 16:58:22

Below is generated by plot.py at 2017-09-21 19:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.46 Mbit/s

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

Loss rate: 0.24%

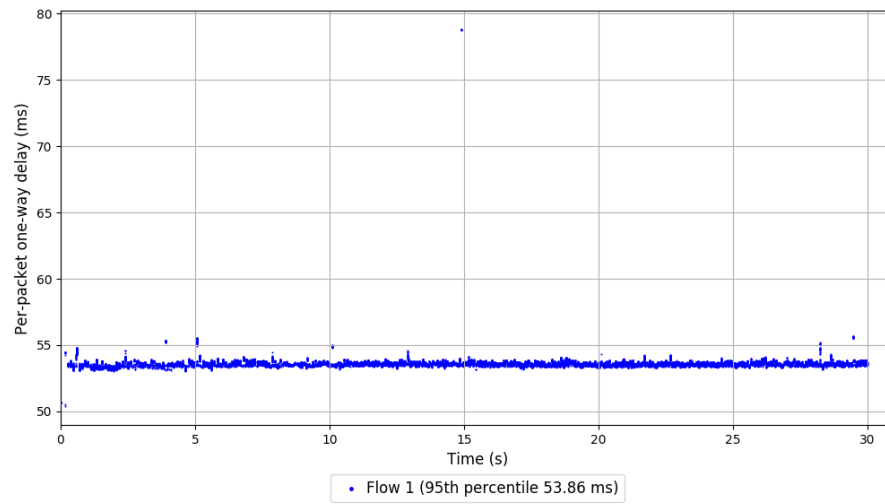
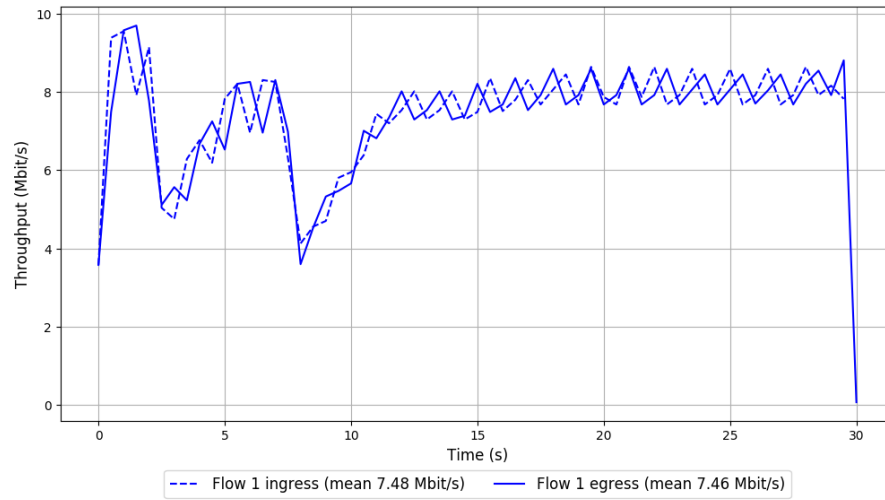
-- Flow 1:

Average throughput: 7.46 Mbit/s

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

Loss rate: 0.24%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-21 17:08:32

End at: 2017-09-21 17:09:02

Below is generated by plot.py at 2017-09-21 19:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.05 Mbit/s

95th percentile per-packet one-way delay: 53.804 ms

Loss rate: 0.00%

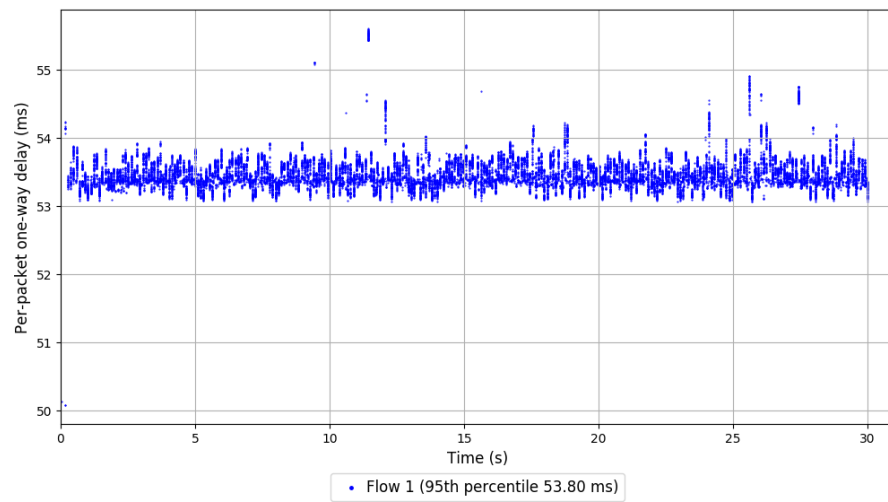
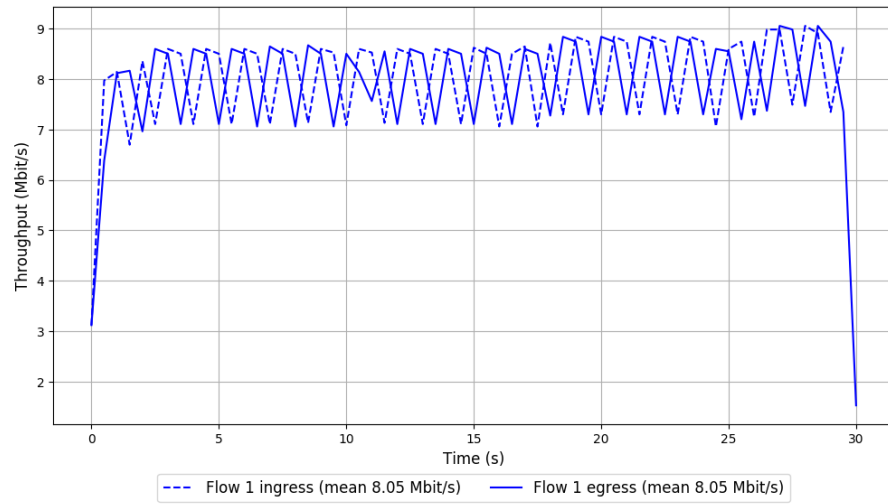
-- Flow 1:

Average throughput: 8.05 Mbit/s

95th percentile per-packet one-way delay: 53.804 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-21 17:18:52

End at: 2017-09-21 17:19:22

Below is generated by plot.py at 2017-09-21 19:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.61 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 0.09%

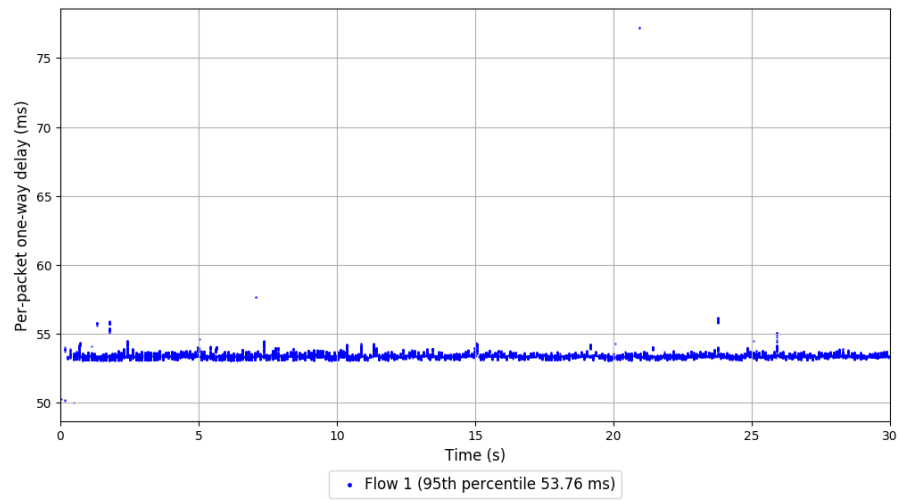
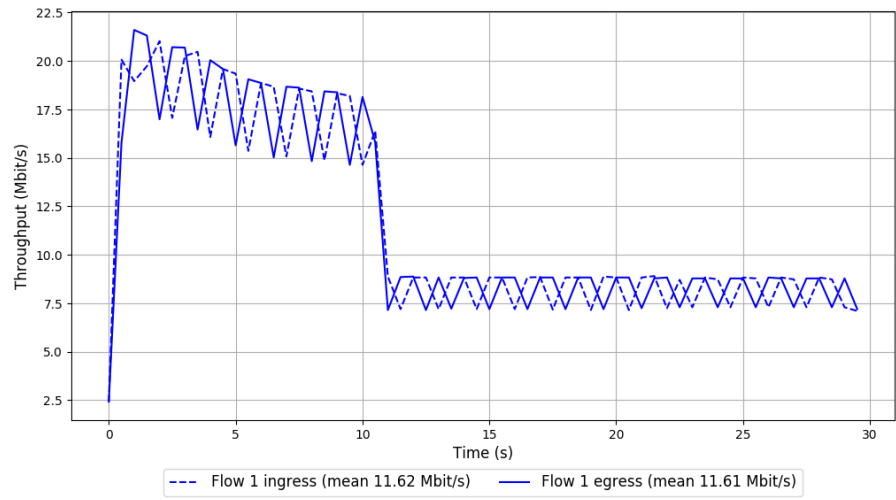
-- Flow 1:

Average throughput: 11.61 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 0.09%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-21 17:29:19

End at: 2017-09-21 17:29:49

Below is generated by plot.py at 2017-09-21 19:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.56 Mbit/s

95th percentile per-packet one-way delay: 54.113 ms

Loss rate: 0.05%

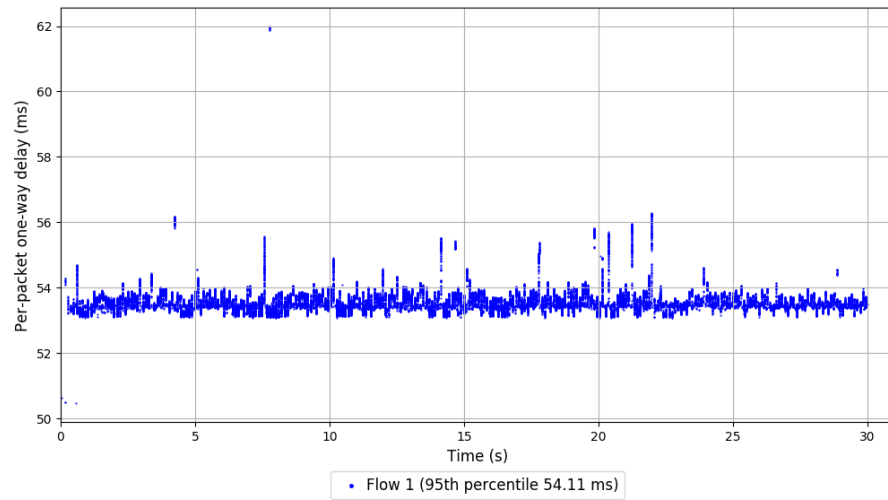
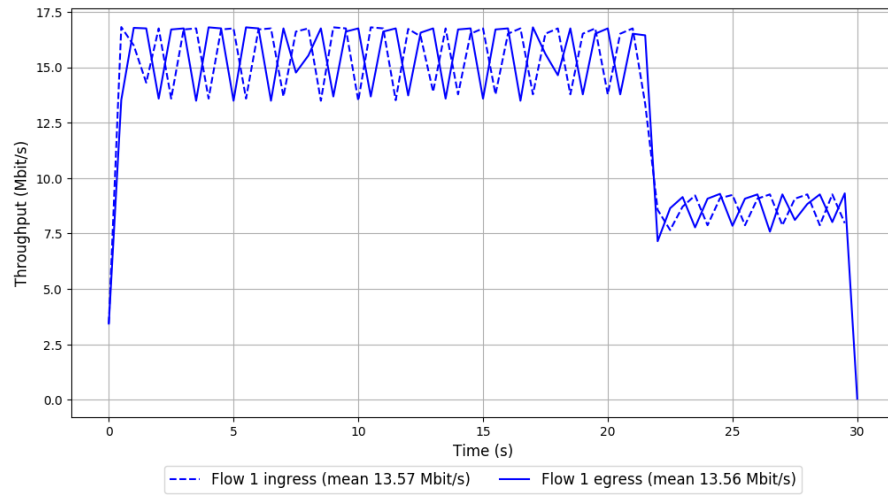
-- Flow 1:

Average throughput: 13.56 Mbit/s

95th percentile per-packet one-way delay: 54.113 ms

Loss rate: 0.05%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-21 17:40:05

End at: 2017-09-21 17:40:35

Below is generated by plot.py at 2017-09-21 19:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.53 Mbit/s

95th percentile per-packet one-way delay: 53.927 ms

Loss rate: 0.16%

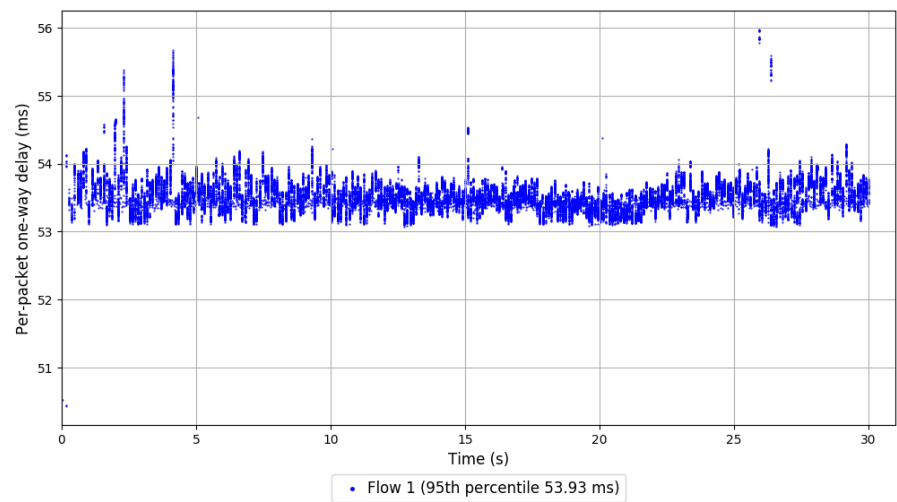
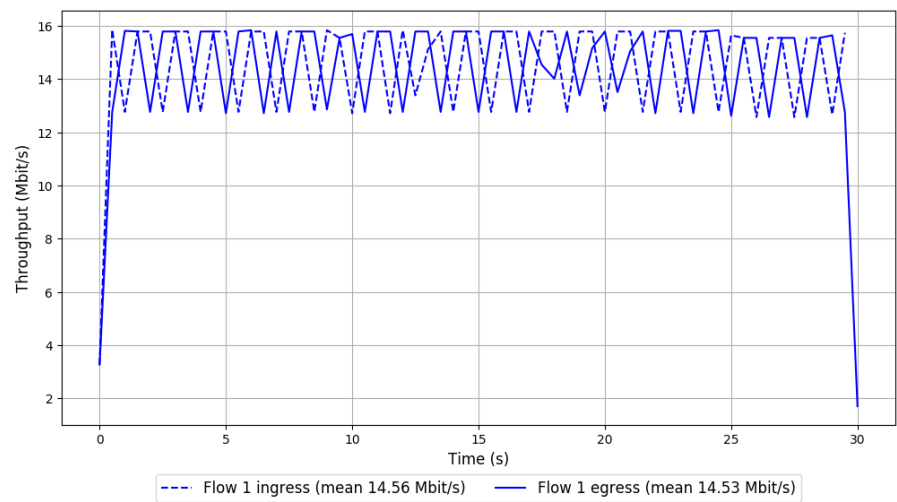
-- Flow 1:

Average throughput: 14.53 Mbit/s

95th percentile per-packet one-way delay: 53.927 ms

Loss rate: 0.16%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-21 17:50:54

End at: 2017-09-21 17:51:24

Below is generated by plot.py at 2017-09-21 19:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.45 Mbit/s

95th percentile per-packet one-way delay: 55.112 ms

Loss rate: 0.01%

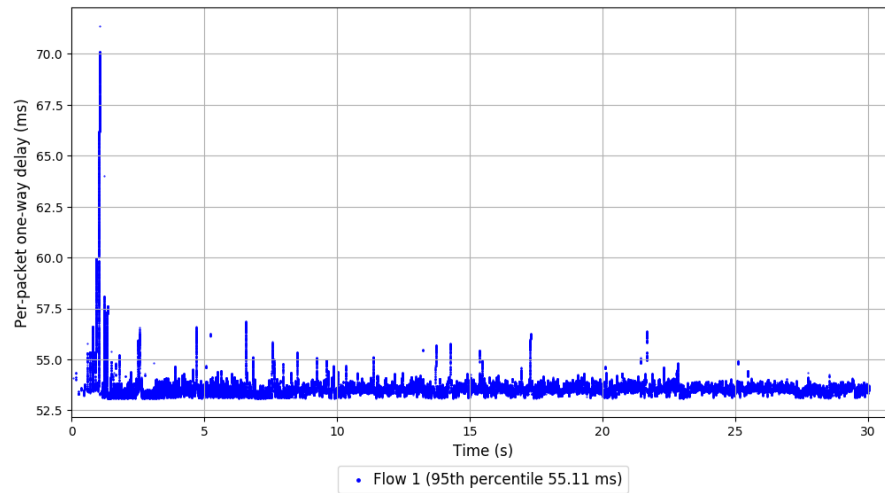
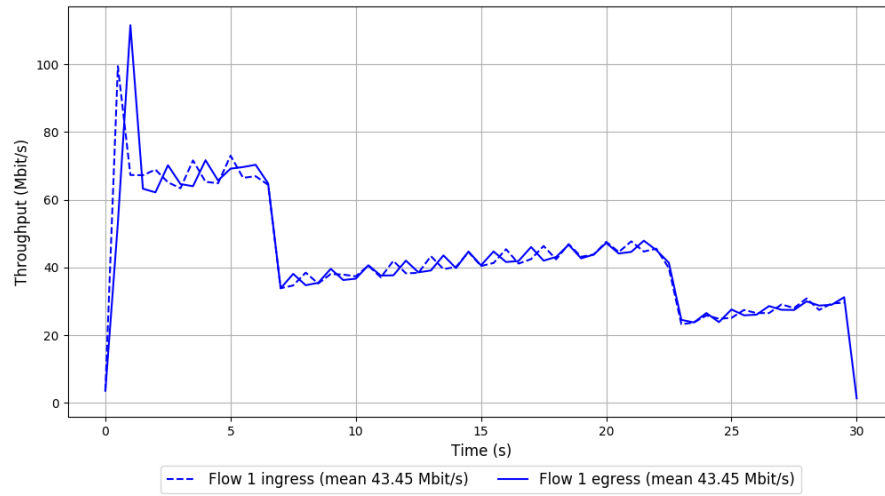
-- Flow 1:

Average throughput: 43.45 Mbit/s

95th percentile per-packet one-way delay: 55.112 ms

Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-21 16:07:03

End at: 2017-09-21 16:07:33

Below is generated by plot.py at 2017-09-21 19:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.97 Mbit/s

95th percentile per-packet one-way delay: 69.076 ms

Loss rate: 0.06%

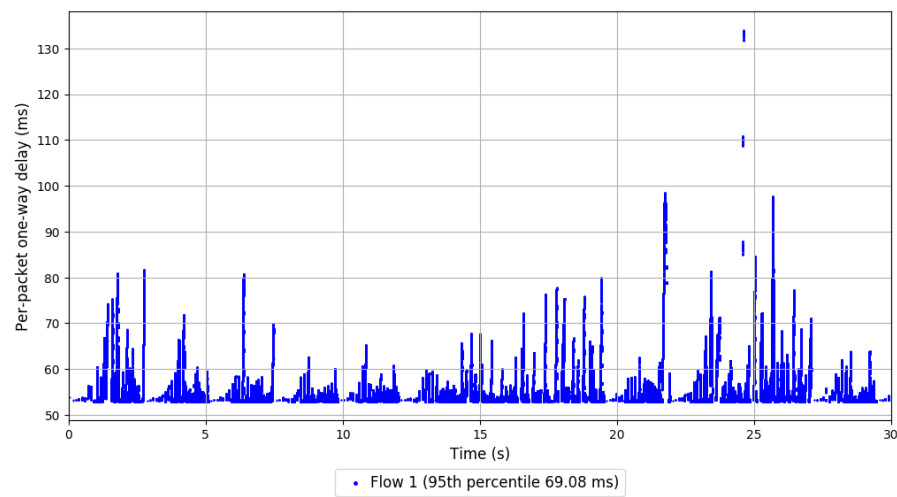
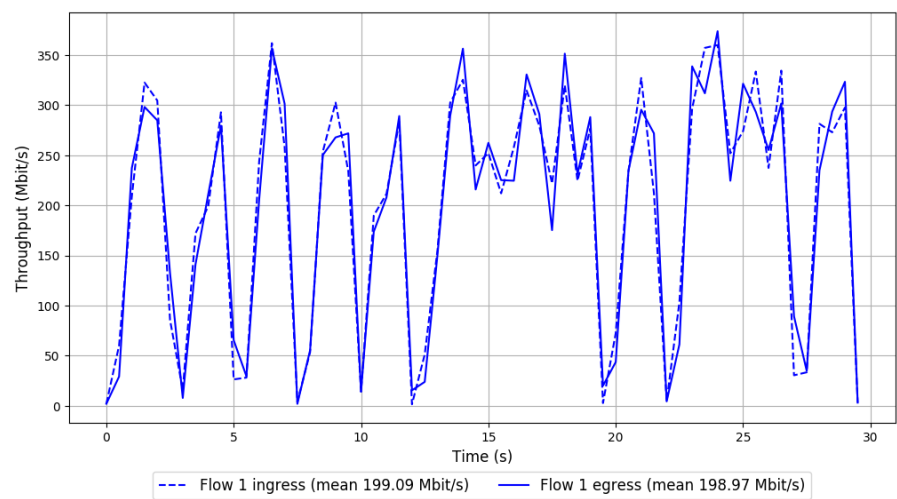
-- Flow 1:

Average throughput: 198.97 Mbit/s

95th percentile per-packet one-way delay: 69.076 ms

Loss rate: 0.06%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-21 16:17:24

End at: 2017-09-21 16:17:54

Below is generated by plot.py at 2017-09-21 19:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.22 Mbit/s

95th percentile per-packet one-way delay: 107.820 ms

Loss rate: 0.23%

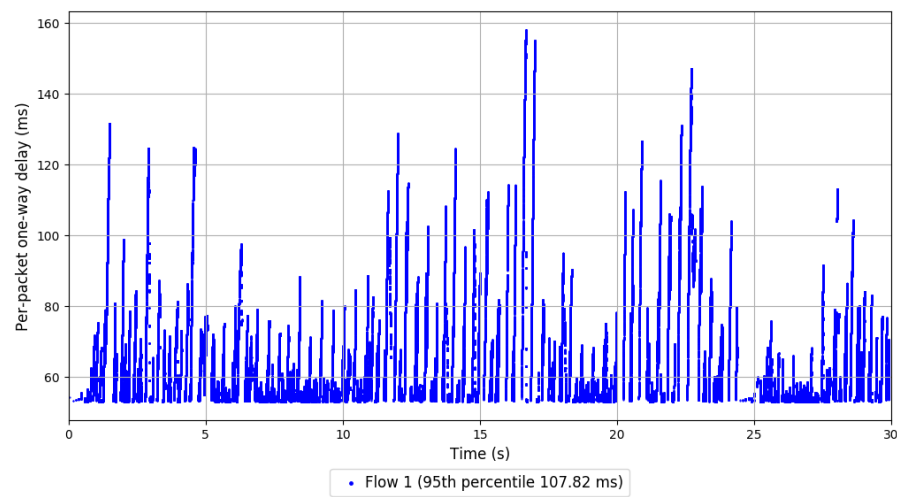
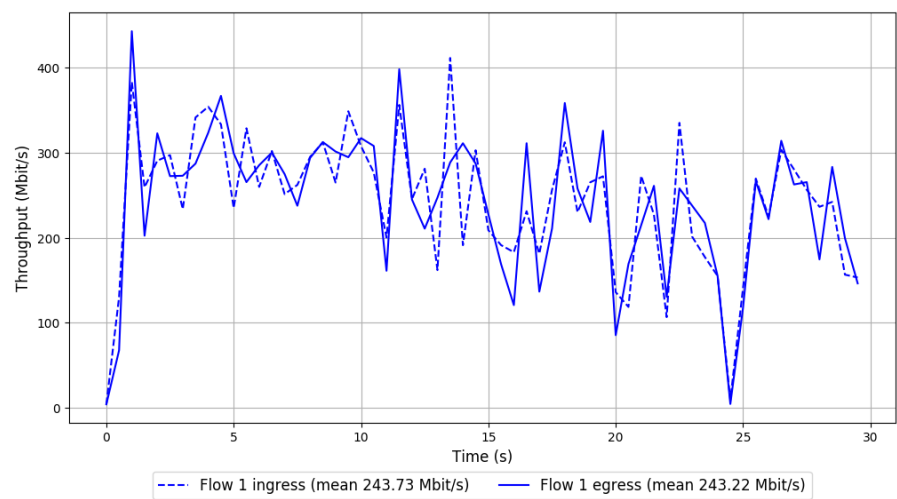
-- Flow 1:

Average throughput: 243.22 Mbit/s

95th percentile per-packet one-way delay: 107.820 ms

Loss rate: 0.23%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-21 16:27:44

End at: 2017-09-21 16:28:14

Below is generated by plot.py at 2017-09-21 19:04:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.28 Mbit/s

95th percentile per-packet one-way delay: 87.691 ms

Loss rate: 0.11%

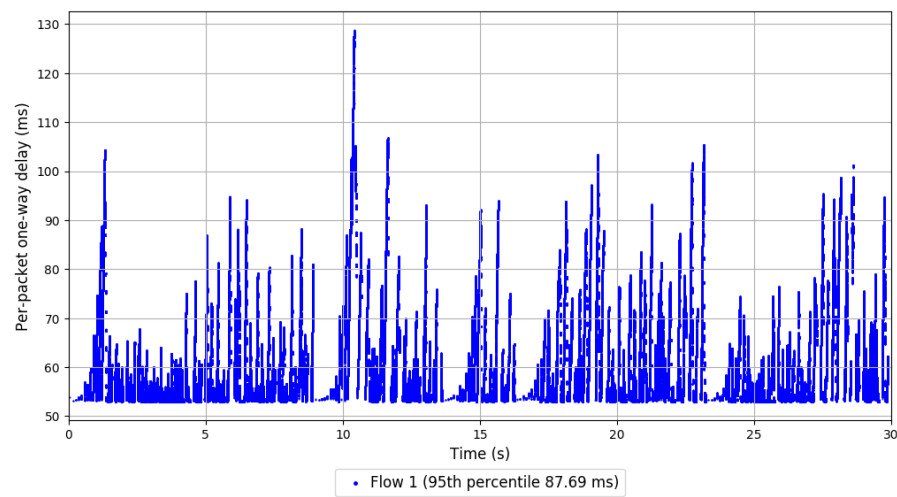
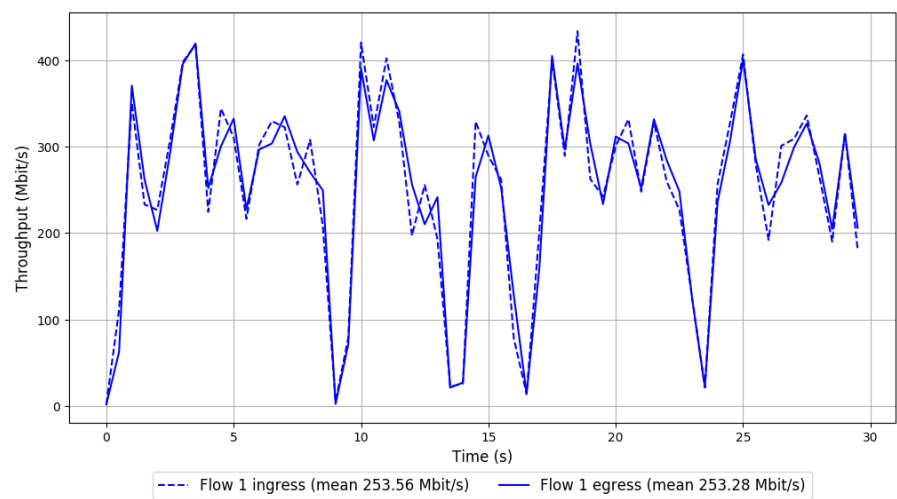
-- Flow 1:

Average throughput: 253.28 Mbit/s

95th percentile per-packet one-way delay: 87.691 ms

Loss rate: 0.11%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-21 16:38:25

End at: 2017-09-21 16:38:55

Below is generated by plot.py at 2017-09-21 19:04:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.71 Mbit/s

95th percentile per-packet one-way delay: 66.309 ms

Loss rate: 0.02%

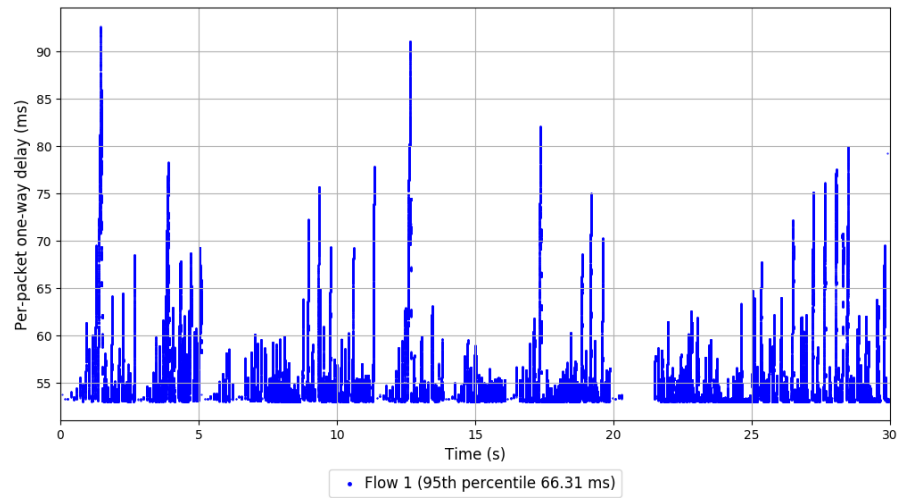
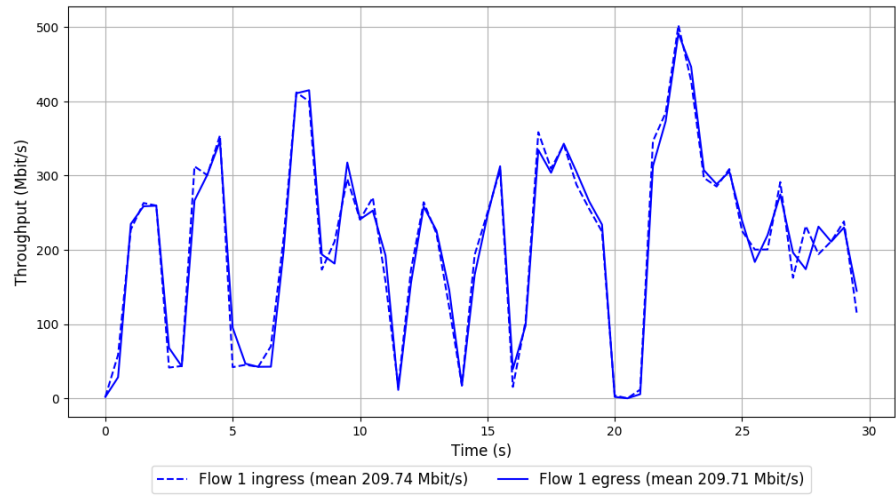
-- Flow 1:

Average throughput: 209.71 Mbit/s

95th percentile per-packet one-way delay: 66.309 ms

Loss rate: 0.02%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-21 16:48:40

End at: 2017-09-21 16:49:10

Below is generated by plot.py at 2017-09-21 19:04:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.37 Mbit/s

95th percentile per-packet one-way delay: 195.821 ms

Loss rate: 3.00%

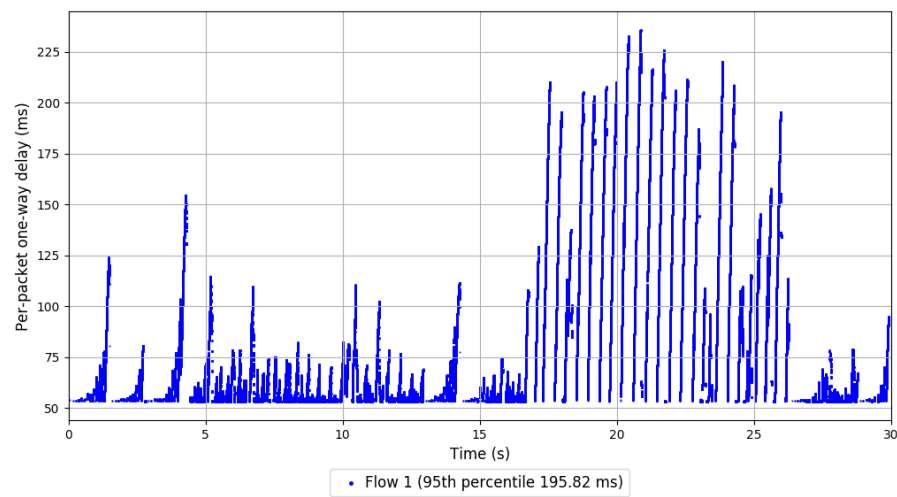
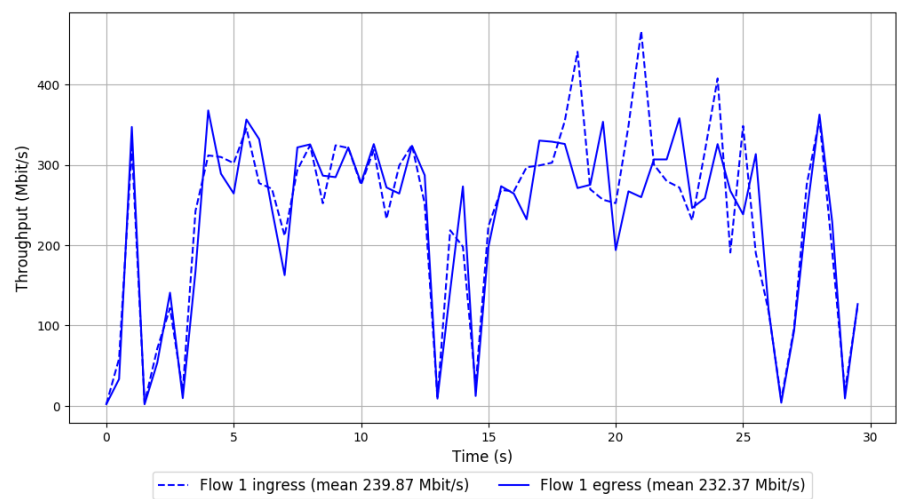
-- Flow 1:

Average throughput: 232.37 Mbit/s

95th percentile per-packet one-way delay: 195.821 ms

Loss rate: 3.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-21 16:59:07

End at: 2017-09-21 16:59:37

Below is generated by plot.py at 2017-09-21 19:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.14 Mbit/s

95th percentile per-packet one-way delay: 206.638 ms

Loss rate: 5.60%

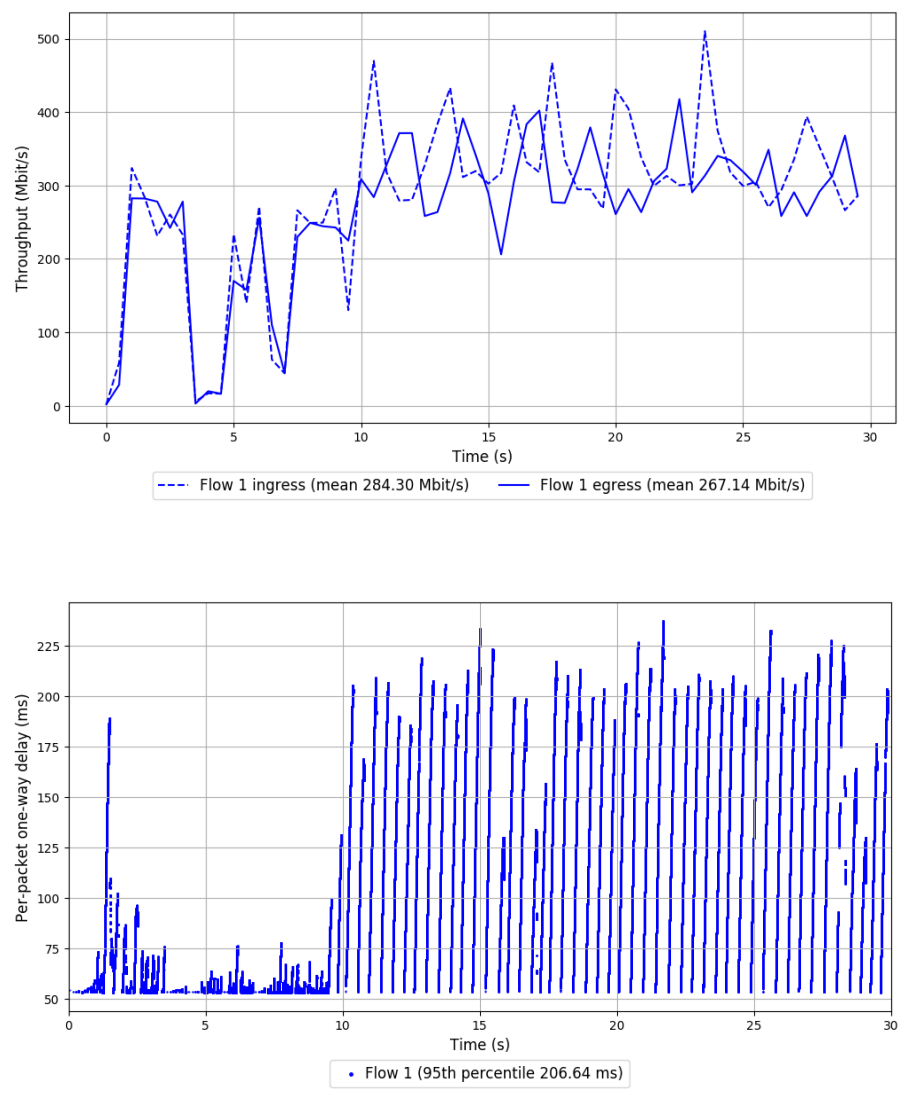
-- Flow 1:

Average throughput: 267.14 Mbit/s

95th percentile per-packet one-way delay: 206.638 ms

Loss rate: 5.60%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-21 17:09:47

End at: 2017-09-21 17:10:17

Below is generated by plot.py at 2017-09-21 19:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.34 Mbit/s

95th percentile per-packet one-way delay: 126.834 ms

Loss rate: 0.22%

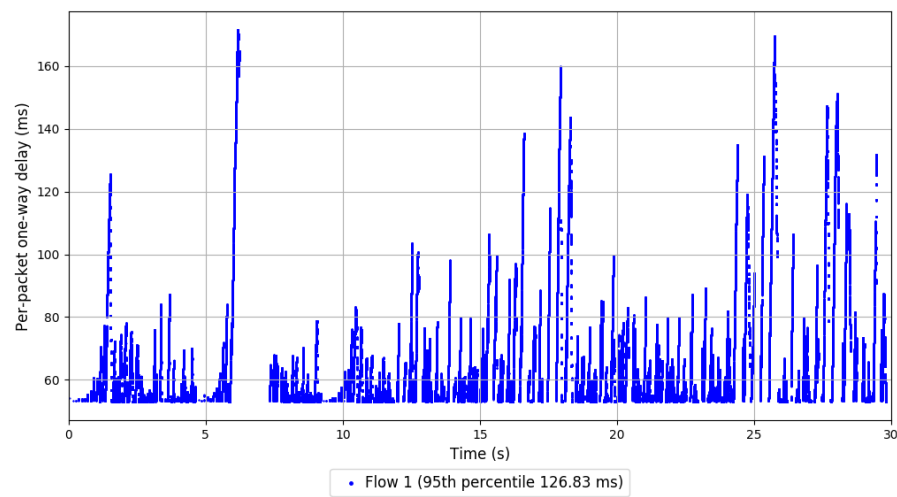
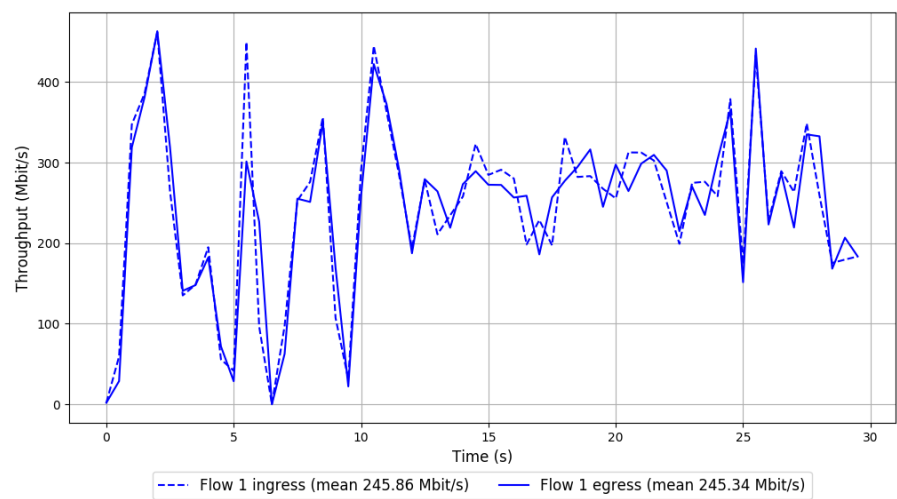
-- Flow 1:

Average throughput: 245.34 Mbit/s

95th percentile per-packet one-way delay: 126.834 ms

Loss rate: 0.22%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-21 17:20:07

End at: 2017-09-21 17:20:37

Below is generated by plot.py at 2017-09-21 19:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.74 Mbit/s

95th percentile per-packet one-way delay: 195.094 ms

Loss rate: 1.24%

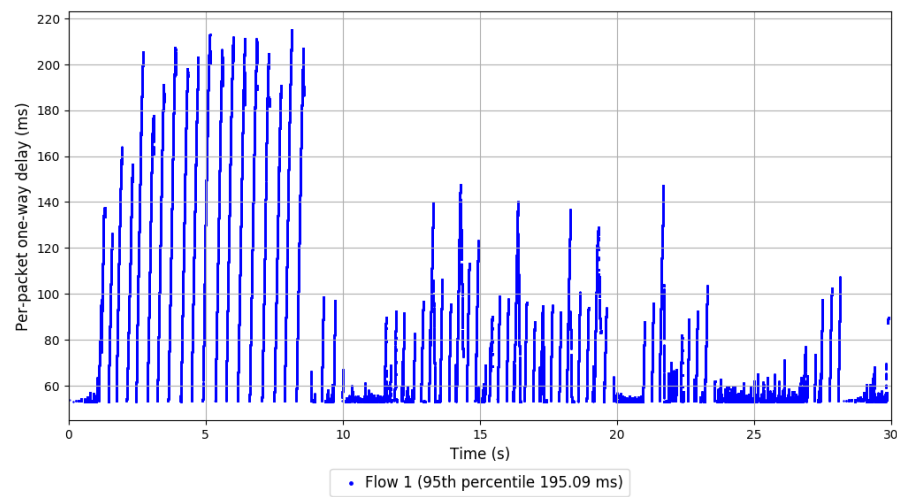
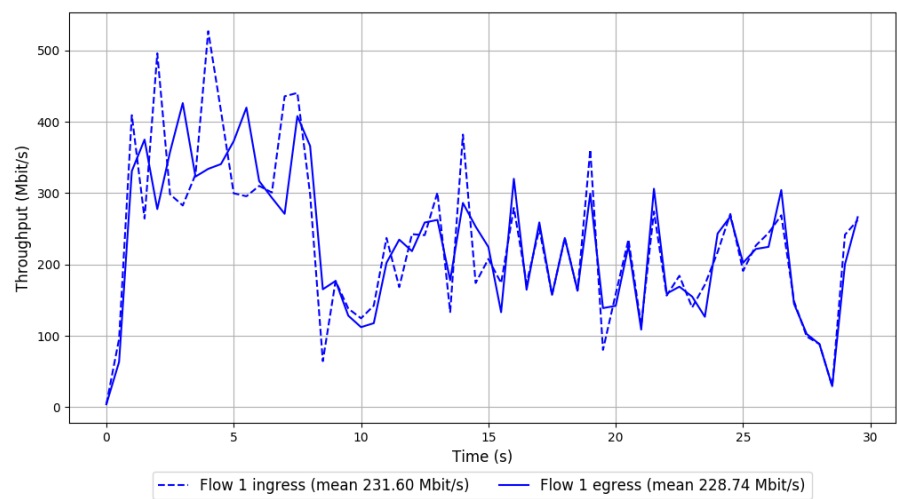
-- Flow 1:

Average throughput: 228.74 Mbit/s

95th percentile per-packet one-way delay: 195.094 ms

Loss rate: 1.24%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-21 17:30:34

End at: 2017-09-21 17:31:04

Below is generated by plot.py at 2017-09-21 19:07:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.17 Mbit/s

95th percentile per-packet one-way delay: 95.786 ms

Loss rate: 0.40%

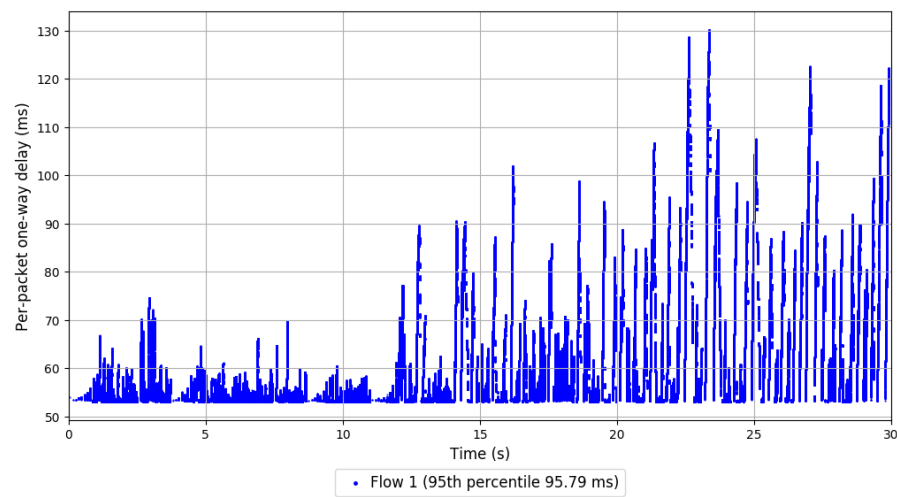
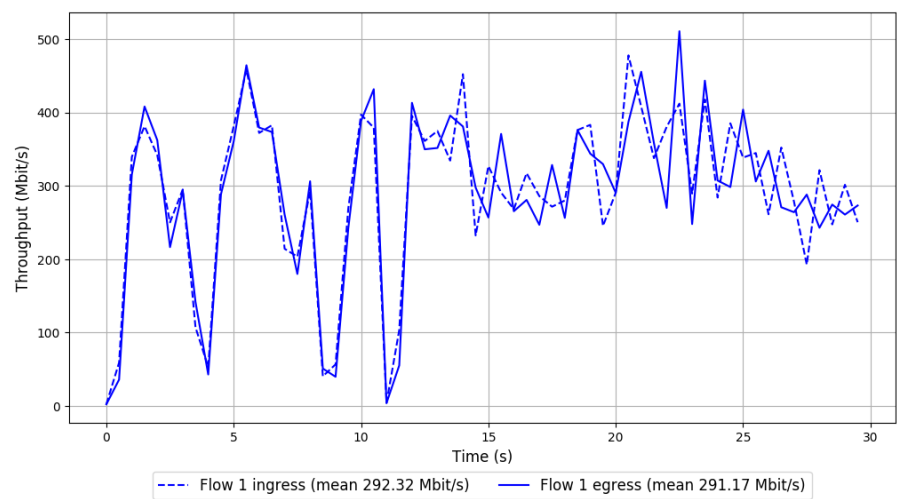
-- Flow 1:

Average throughput: 291.17 Mbit/s

95th percentile per-packet one-way delay: 95.786 ms

Loss rate: 0.40%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-21 17:41:21

End at: 2017-09-21 17:41:51

Below is generated by plot.py at 2017-09-21 19:07:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.58 Mbit/s

95th percentile per-packet one-way delay: 129.170 ms

Loss rate: 0.48%

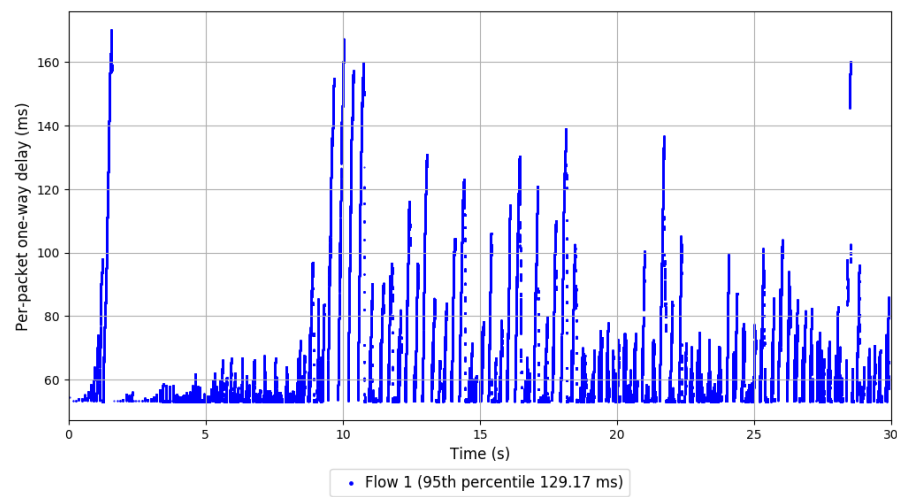
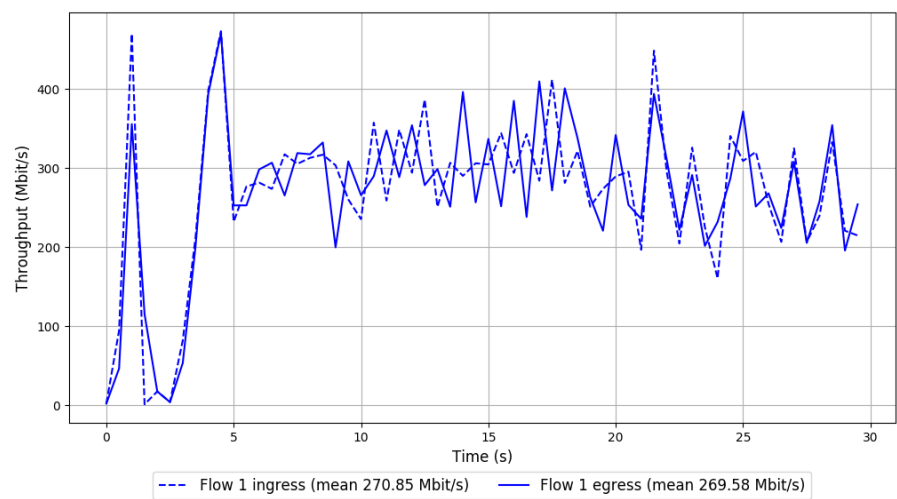
-- Flow 1:

Average throughput: 269.58 Mbit/s

95th percentile per-packet one-way delay: 129.170 ms

Loss rate: 0.48%

Run 10: Report of Verus — Data Link

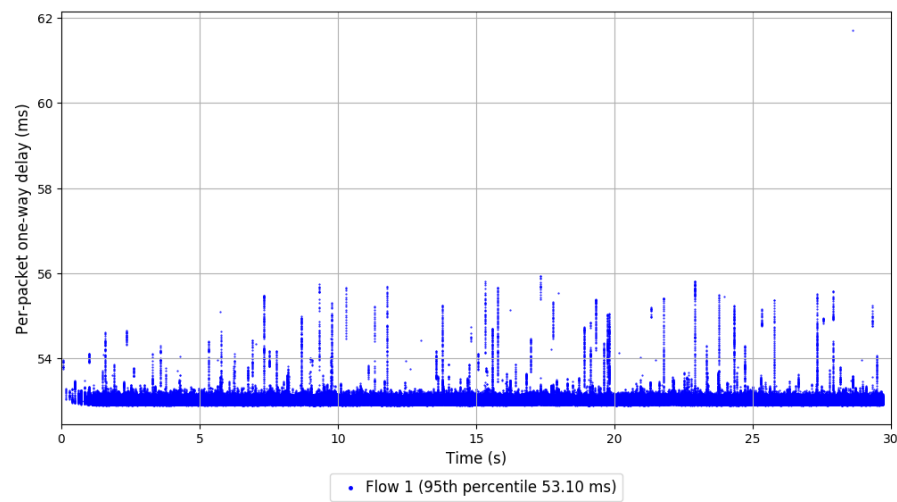
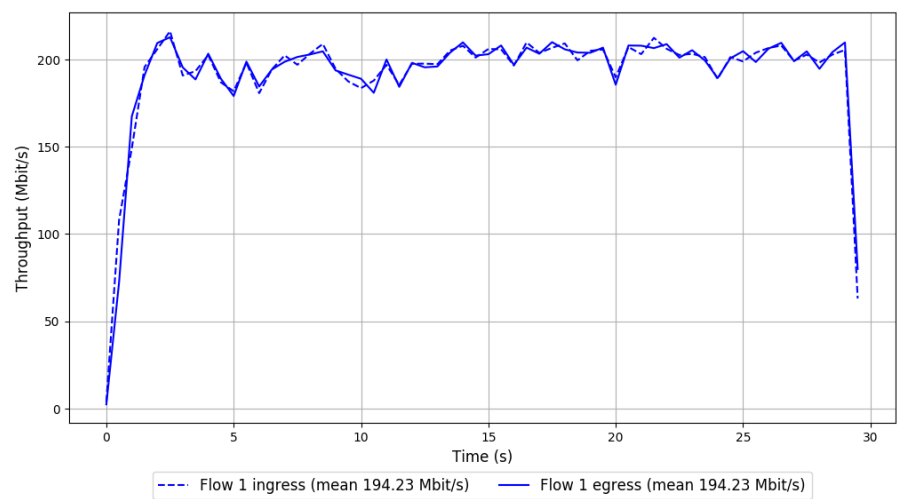


```
Run 1: Statistics of Indigo

Start at: 2017-09-21 16:13:12
End at: 2017-09-21 16:13:42

# Below is generated by plot.py at 2017-09-21 19:07:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.23 Mbit/s
95th percentile per-packet one-way delay: 53.102 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 194.23 Mbit/s
95th percentile per-packet one-way delay: 53.102 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-21 16:23:32

End at: 2017-09-21 16:24:02

Below is generated by plot.py at 2017-09-21 19:07:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.02 Mbit/s

95th percentile per-packet one-way delay: 53.189 ms

Loss rate: 0.06%

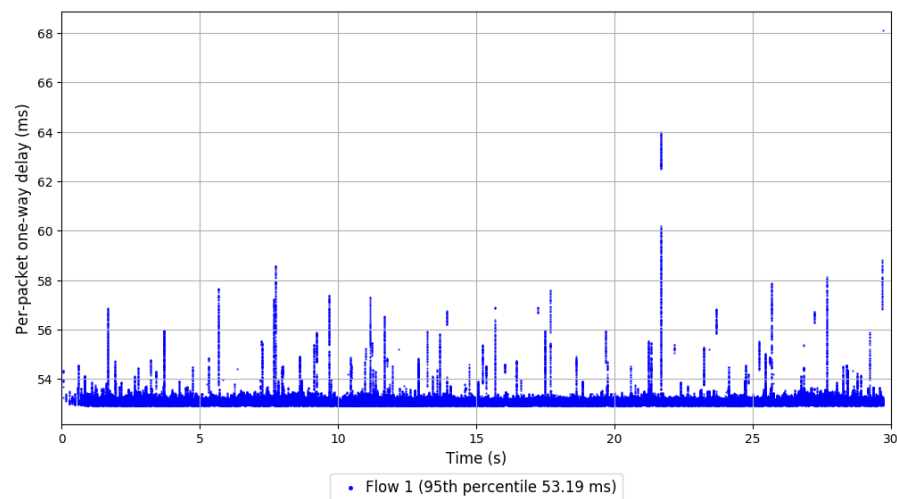
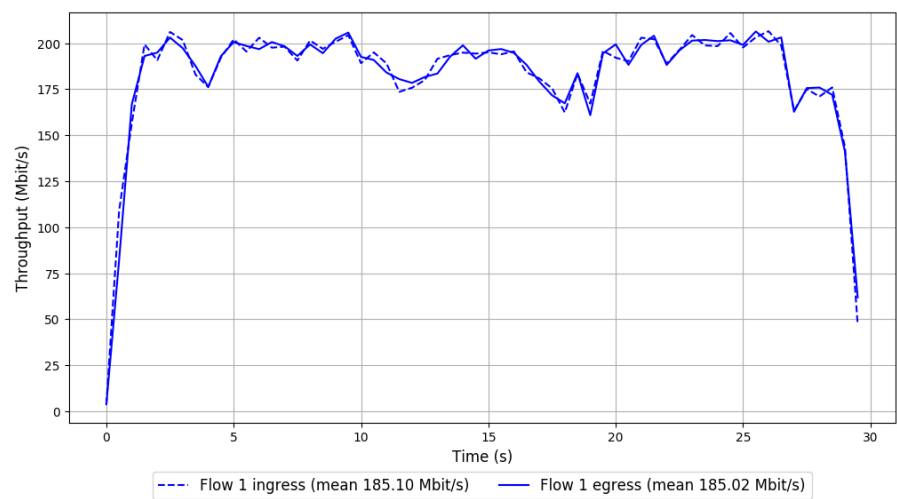
-- Flow 1:

Average throughput: 185.02 Mbit/s

95th percentile per-packet one-way delay: 53.189 ms

Loss rate: 0.06%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-21 16:33:55

End at: 2017-09-21 16:34:25

Below is generated by plot.py at 2017-09-21 19:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.03 Mbit/s

95th percentile per-packet one-way delay: 53.174 ms

Loss rate: 0.00%

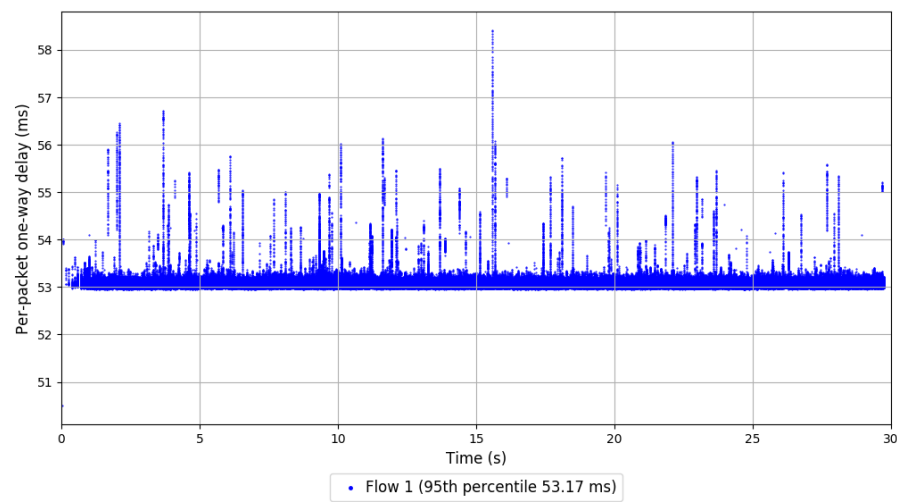
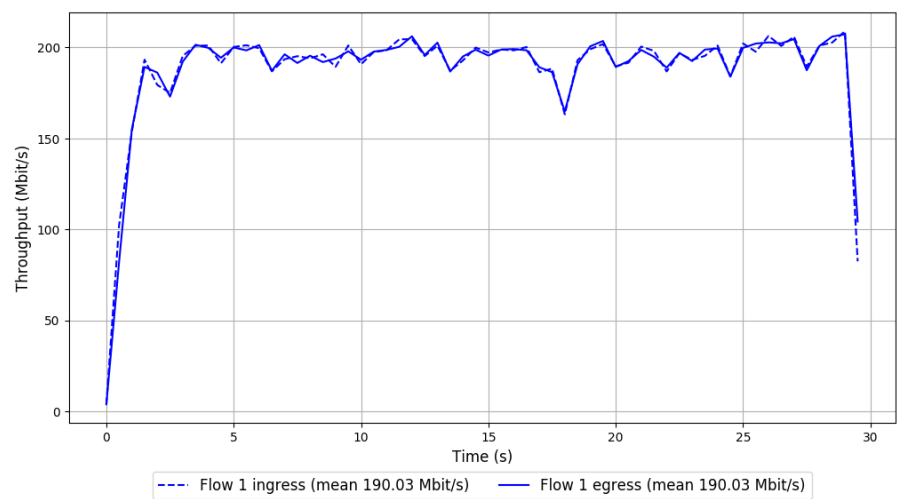
-- Flow 1:

Average throughput: 190.03 Mbit/s

95th percentile per-packet one-way delay: 53.174 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-21 16:44:24

End at: 2017-09-21 16:44:54

Below is generated by plot.py at 2017-09-21 19:07:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.05 Mbit/s

95th percentile per-packet one-way delay: 53.193 ms

Loss rate: 0.01%

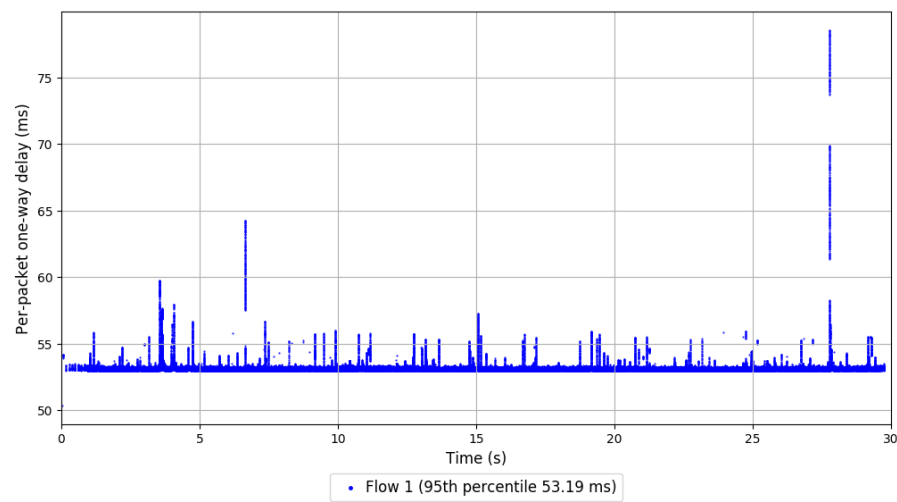
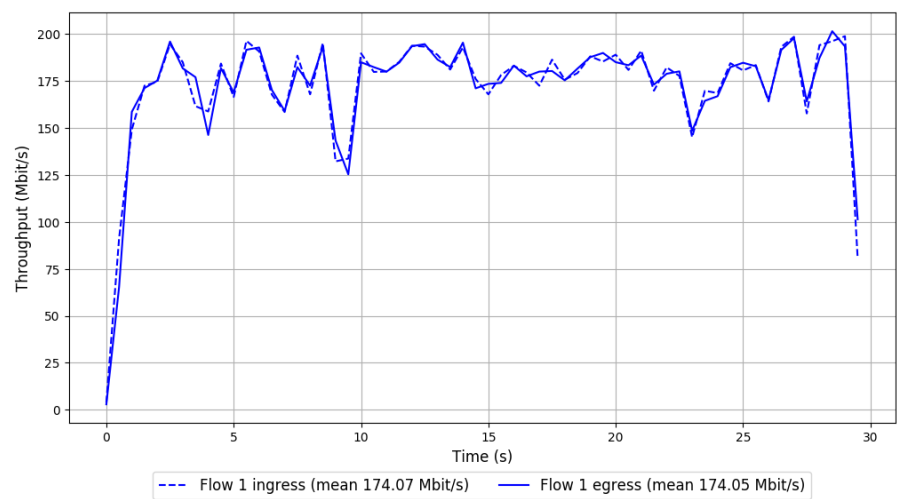
-- Flow 1:

Average throughput: 174.05 Mbit/s

95th percentile per-packet one-way delay: 53.193 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-21 16:54:47

End at: 2017-09-21 16:55:17

Below is generated by plot.py at 2017-09-21 19:08:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.20 Mbit/s

95th percentile per-packet one-way delay: 53.271 ms

Loss rate: 0.00%

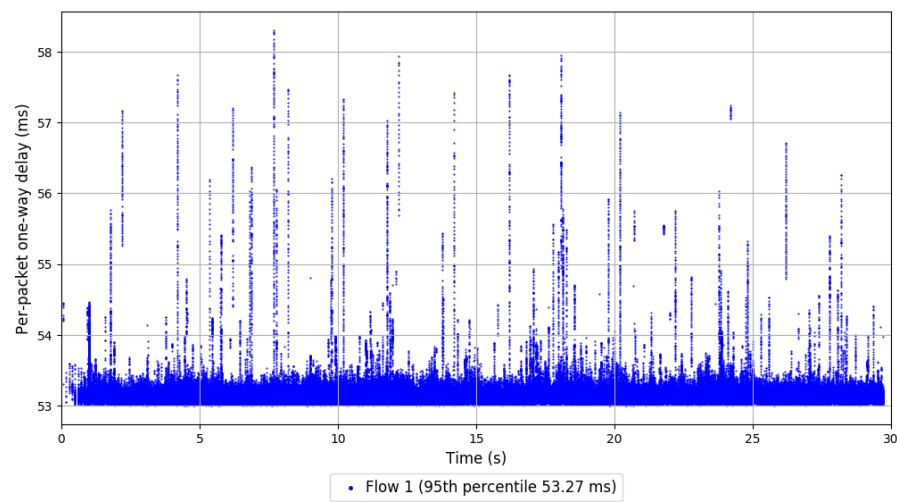
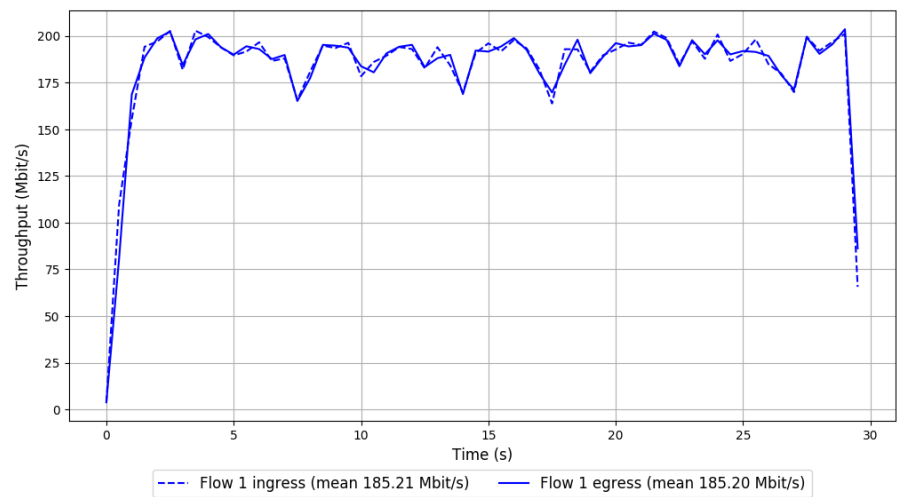
-- Flow 1:

Average throughput: 185.20 Mbit/s

95th percentile per-packet one-way delay: 53.271 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-21 17:05:19

End at: 2017-09-21 17:05:49

Below is generated by plot.py at 2017-09-21 19:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.28 Mbit/s

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

Loss rate: 0.01%

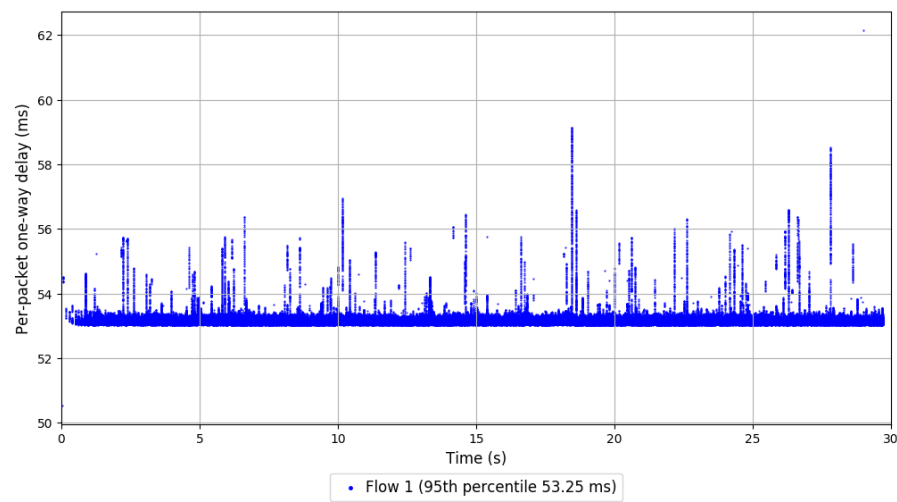
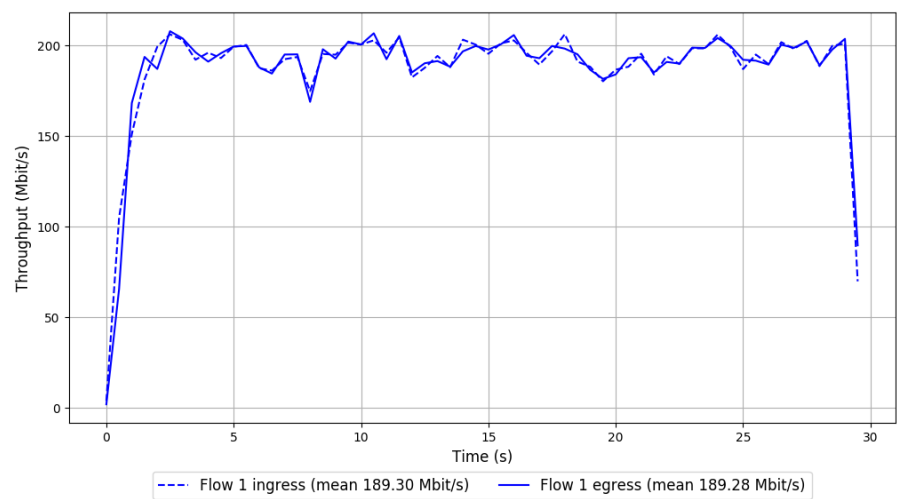
-- Flow 1:

Average throughput: 189.28 Mbit/s

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

Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

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

End at: 2017-09-21 17:16:27

Below is generated by plot.py at 2017-09-21 19:09:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.70 Mbit/s

95th percentile per-packet one-way delay: 53.273 ms

Loss rate: 0.01%

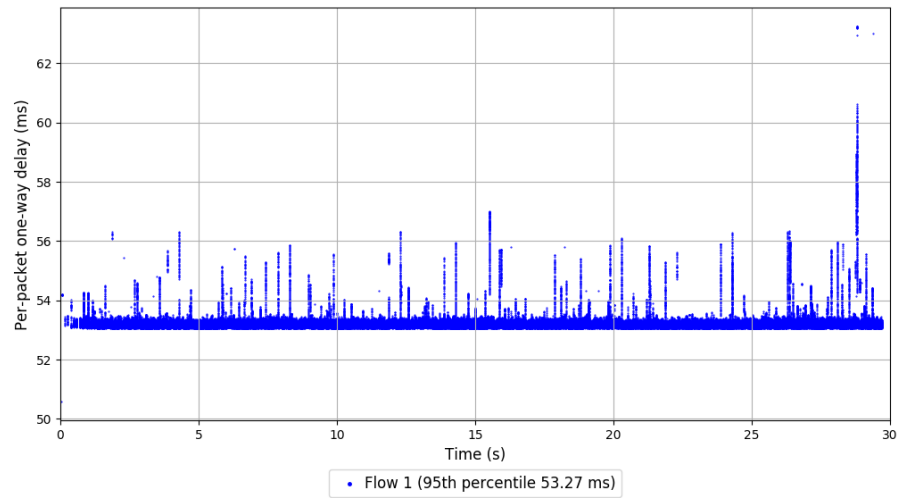
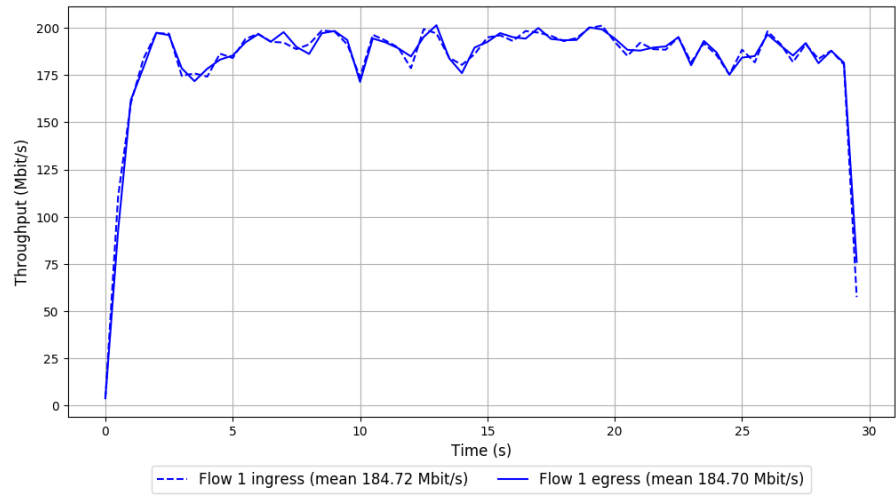
-- Flow 1:

Average throughput: 184.70 Mbit/s

95th percentile per-packet one-way delay: 53.273 ms

Loss rate: 0.01%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-21 17:26:19

End at: 2017-09-21 17:26:49

Below is generated by plot.py at 2017-09-21 19:10:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.70 Mbit/s

95th percentile per-packet one-way delay: 53.253 ms

Loss rate: 0.00%

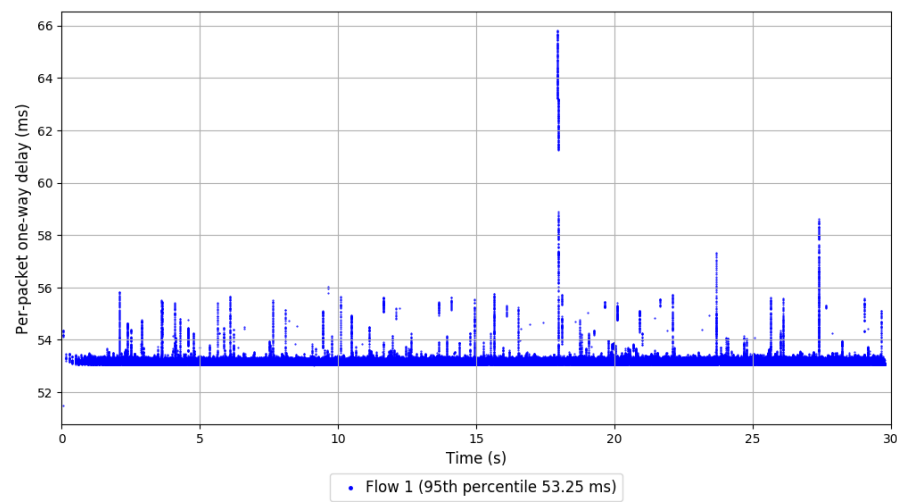
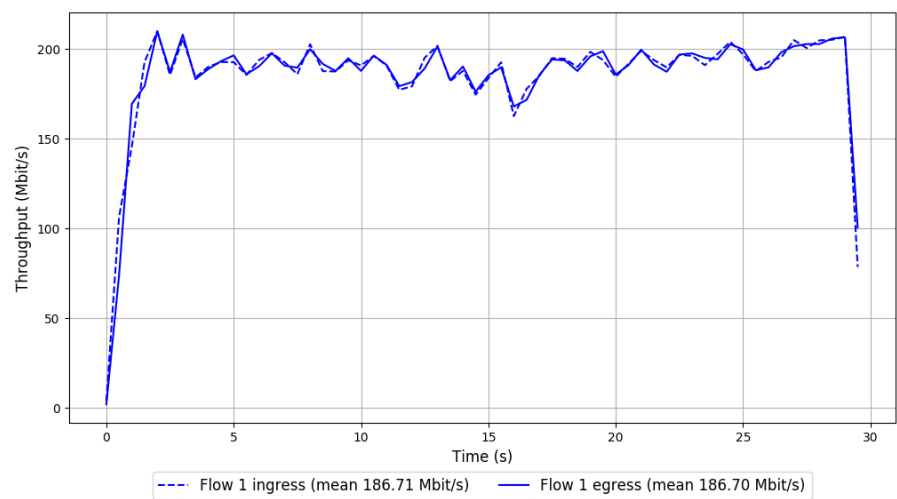
-- Flow 1:

Average throughput: 186.70 Mbit/s

95th percentile per-packet one-way delay: 53.253 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-21 17:36:49

End at: 2017-09-21 17:37:19

Below is generated by plot.py at 2017-09-21 19:10:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.45 Mbit/s

95th percentile per-packet one-way delay: 53.272 ms

Loss rate: 0.01%

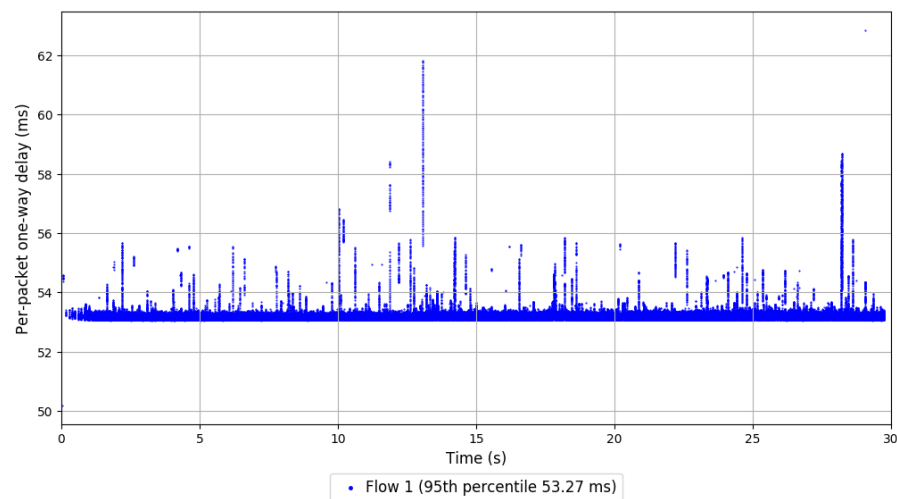
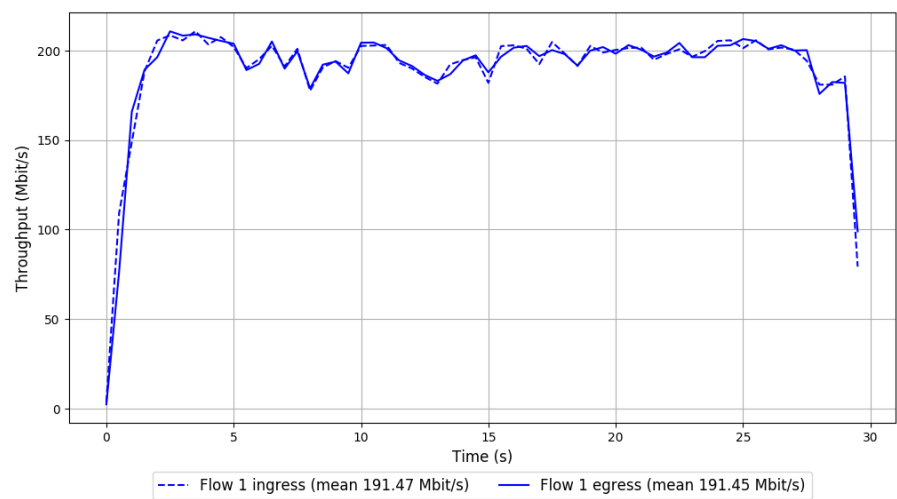
-- Flow 1:

Average throughput: 191.45 Mbit/s

95th percentile per-packet one-way delay: 53.272 ms

Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-21 17:47:34

End at: 2017-09-21 17:48:04

Below is generated by plot.py at 2017-09-21 19:10:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.62 Mbit/s

95th percentile per-packet one-way delay: 53.282 ms

Loss rate: 0.01%

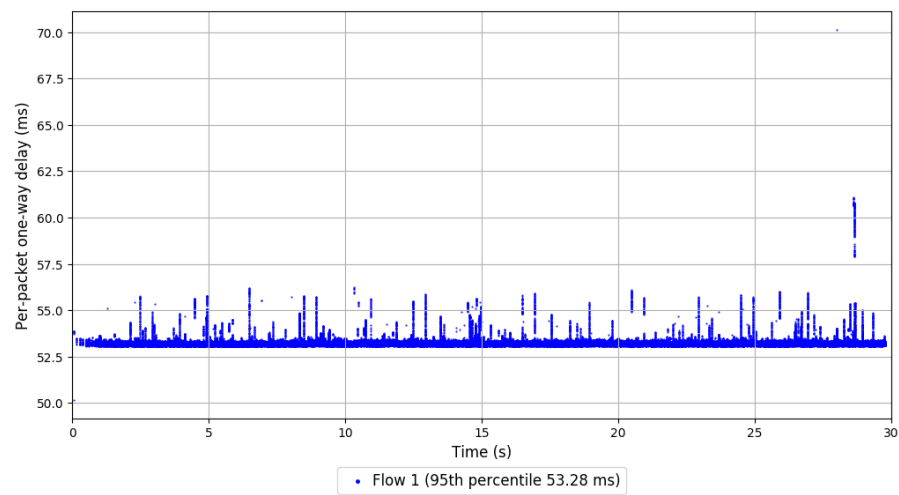
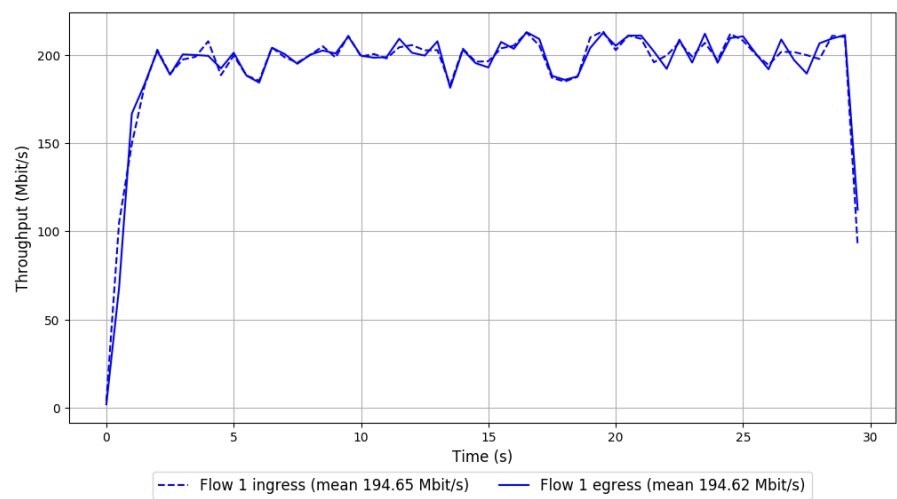
-- Flow 1:

Average throughput: 194.62 Mbit/s

95th percentile per-packet one-way delay: 53.282 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

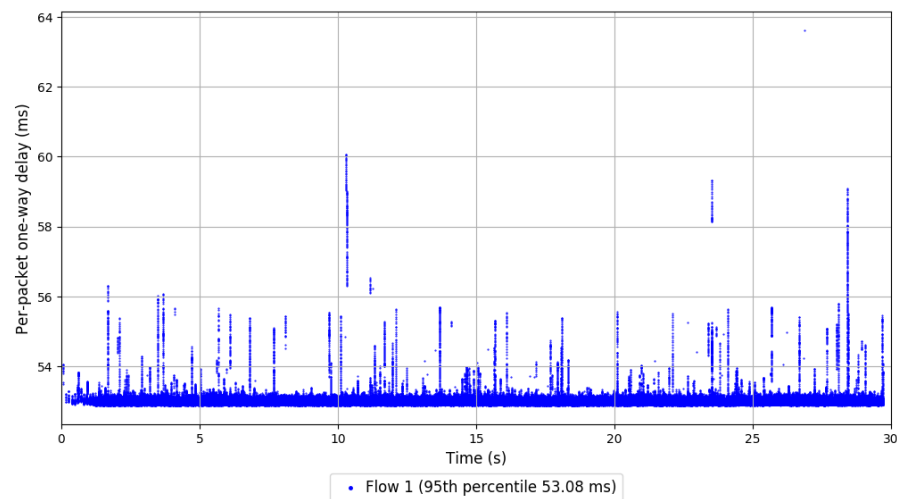
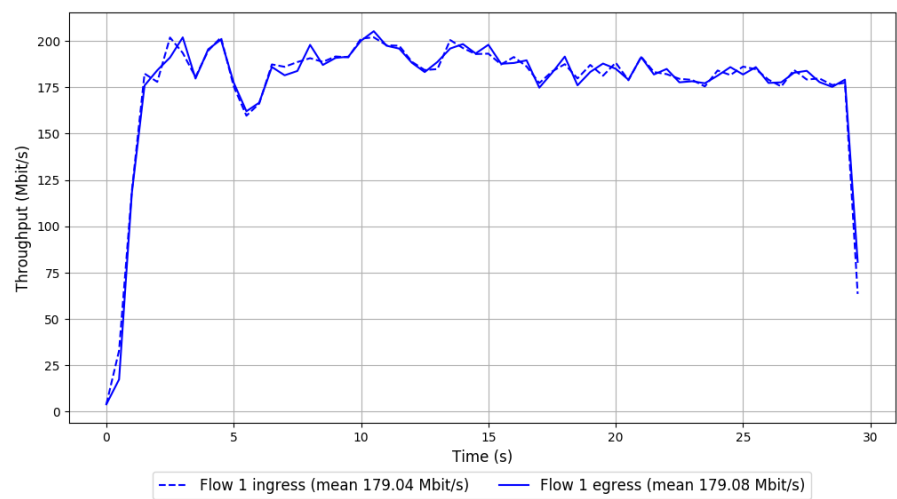


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-21 16:07:55
End at: 2017-09-21 16:08:25

# Below is generated by plot.py at 2017-09-21 19:10:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.08 Mbit/s
95th percentile per-packet one-way delay: 53.084 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.08 Mbit/s
95th percentile per-packet one-way delay: 53.084 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

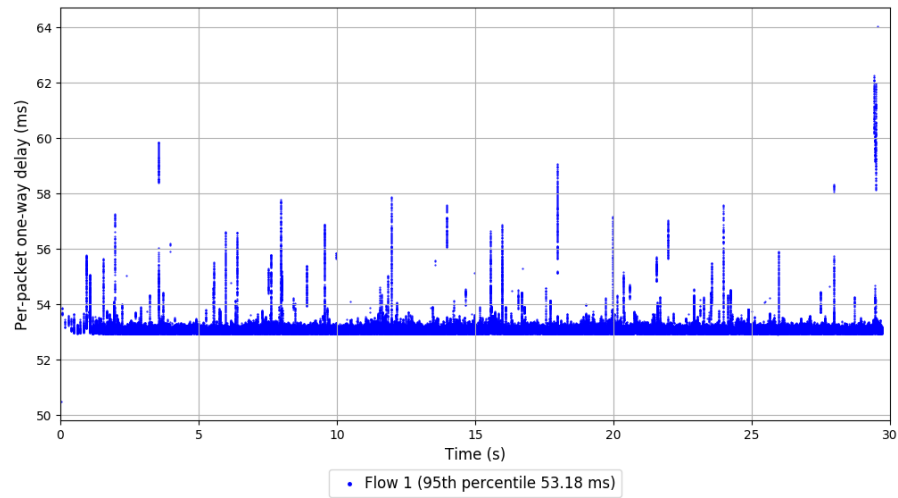
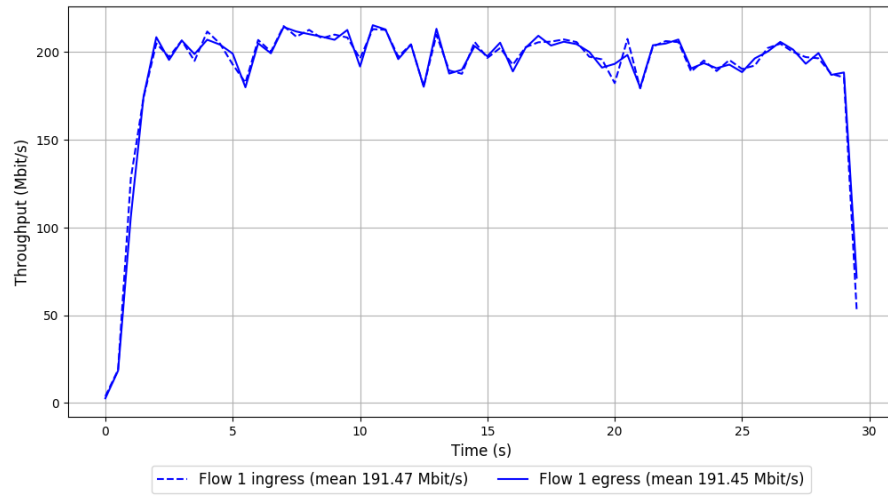


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-21 16:18:19
End at: 2017-09-21 16:18:49

# Below is generated by plot.py at 2017-09-21 19:11:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.45 Mbit/s
95th percentile per-packet one-way delay: 53.176 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 191.45 Mbit/s
95th percentile per-packet one-way delay: 53.176 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-09-21 16:28:40

End at: 2017-09-21 16:29:10

Below is generated by plot.py at 2017-09-21 19:11:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.63 Mbit/s

95th percentile per-packet one-way delay: 53.186 ms

Loss rate: 0.01%

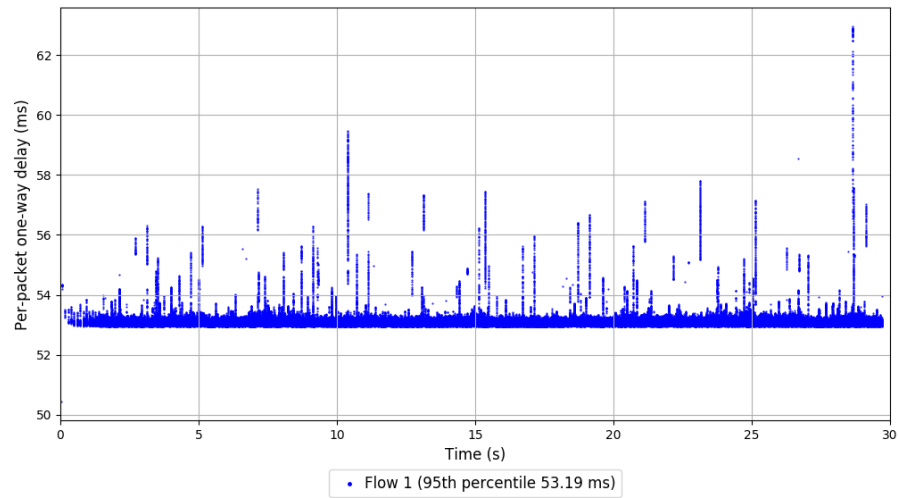
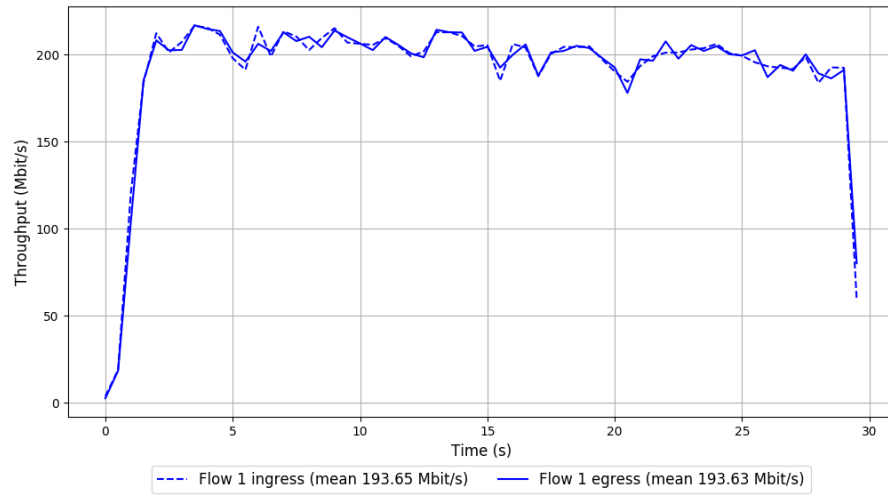
-- Flow 1:

Average throughput: 193.63 Mbit/s

95th percentile per-packet one-way delay: 53.186 ms

Loss rate: 0.01%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-09-21 16:39:17

End at: 2017-09-21 16:39:47

Below is generated by plot.py at 2017-09-21 19:11:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.70 Mbit/s

95th percentile per-packet one-way delay: 53.183 ms

Loss rate: 0.01%

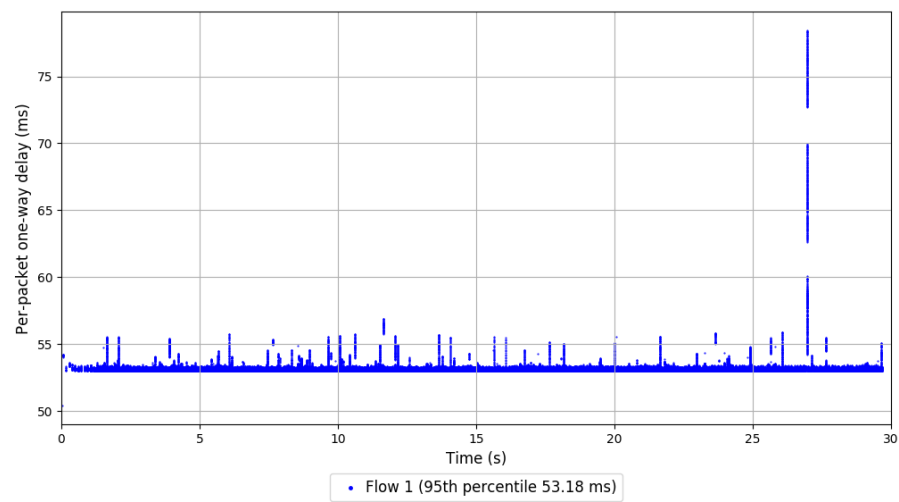
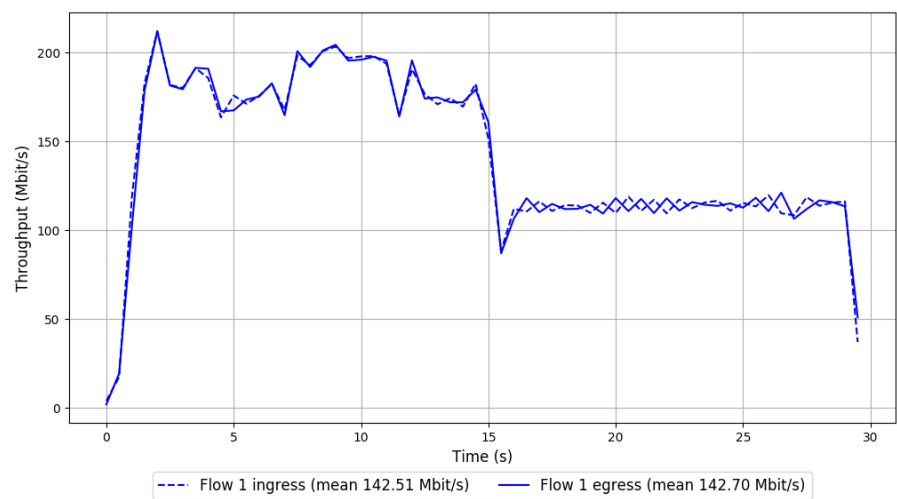
-- Flow 1:

Average throughput: 142.70 Mbit/s

95th percentile per-packet one-way delay: 53.183 ms

Loss rate: 0.01%

Run 4: Report of Indigo-calib — Data Link

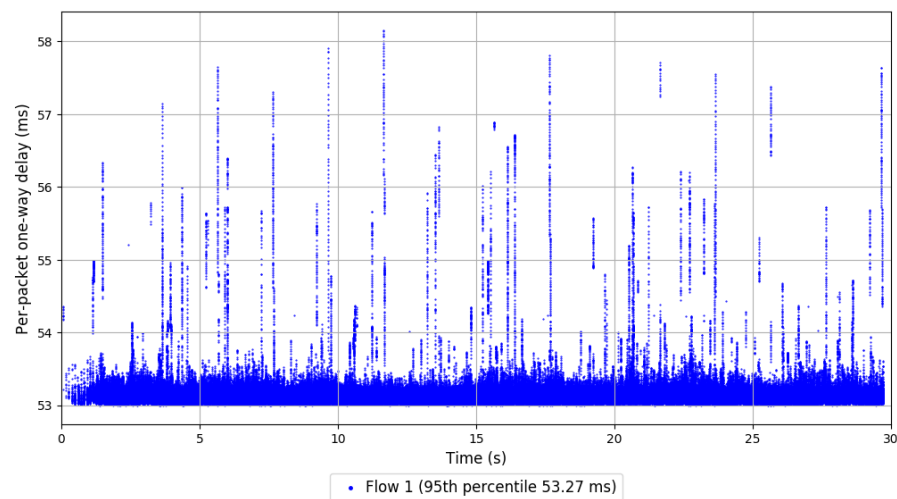
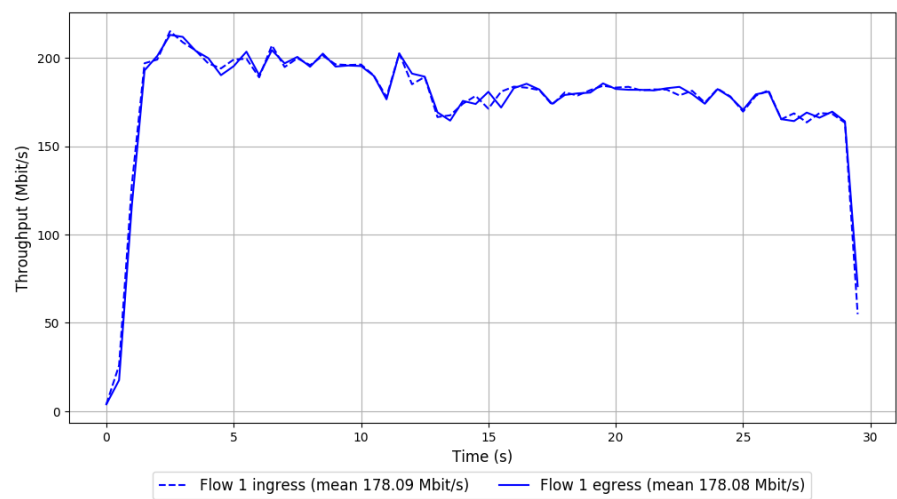


```
Run 5: Statistics of Indigo-calib

Start at: 2017-09-21 16:49:34
End at: 2017-09-21 16:50:04

# Below is generated by plot.py at 2017-09-21 19:13:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.08 Mbit/s
95th percentile per-packet one-way delay: 53.271 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 178.08 Mbit/s
95th percentile per-packet one-way delay: 53.271 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-21 17:00:03

End at: 2017-09-21 17:00:33

Below is generated by plot.py at 2017-09-21 19:13:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.91 Mbit/s

95th percentile per-packet one-way delay: 53.275 ms

Loss rate: 0.07%

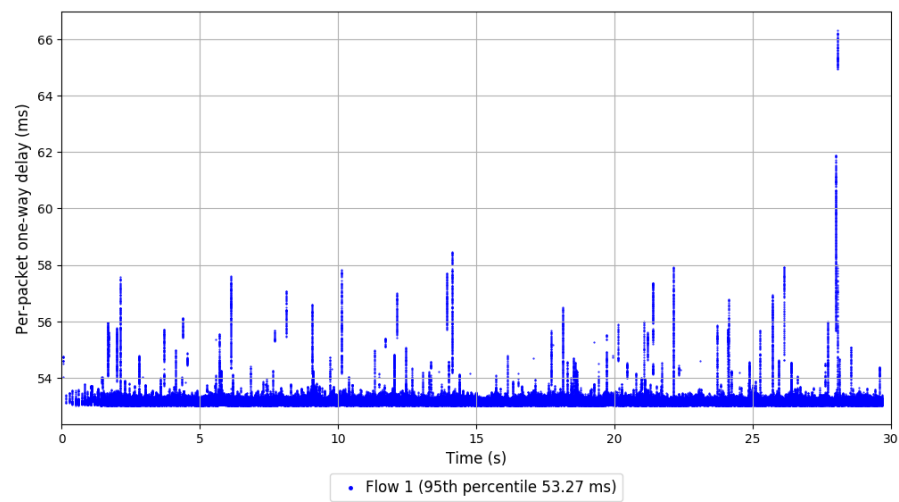
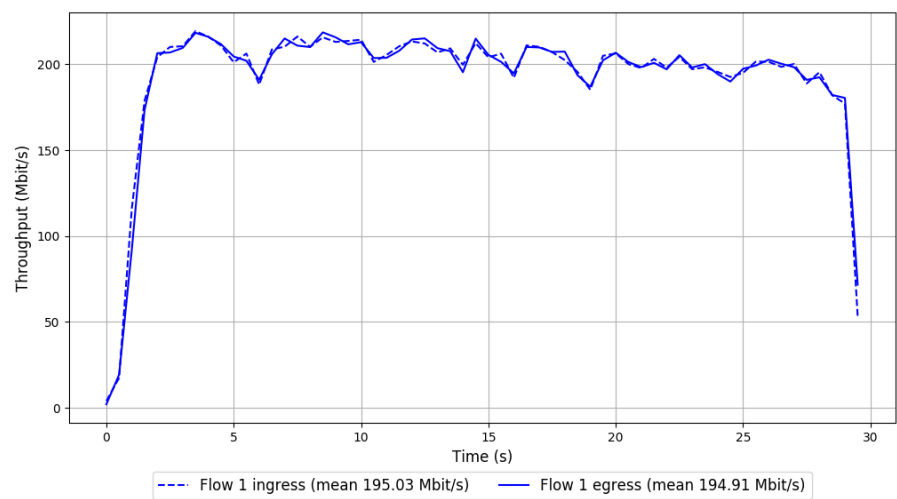
-- Flow 1:

Average throughput: 194.91 Mbit/s

95th percentile per-packet one-way delay: 53.275 ms

Loss rate: 0.07%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-21 17:10:42

End at: 2017-09-21 17:11:12

Below is generated by plot.py at 2017-09-21 19:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.53 Mbit/s

95th percentile per-packet one-way delay: 53.253 ms

Loss rate: 0.01%

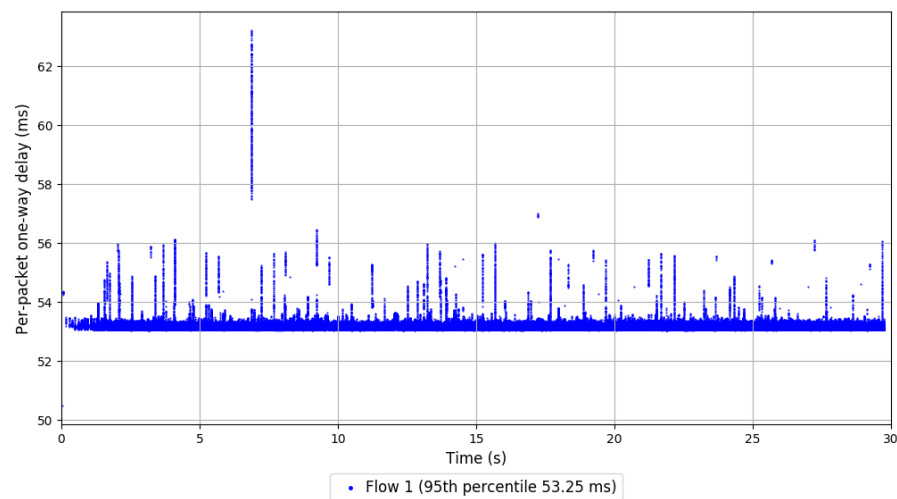
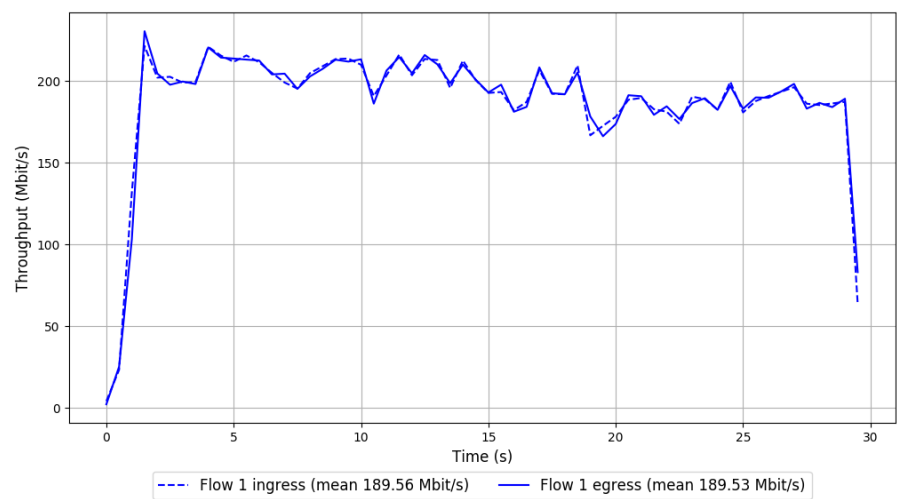
-- Flow 1:

Average throughput: 189.53 Mbit/s

95th percentile per-packet one-way delay: 53.253 ms

Loss rate: 0.01%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-09-21 17:21:01

End at: 2017-09-21 17:21:31

Below is generated by plot.py at 2017-09-21 19:13:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.26 Mbit/s

95th percentile per-packet one-way delay: 53.261 ms

Loss rate: 0.08%

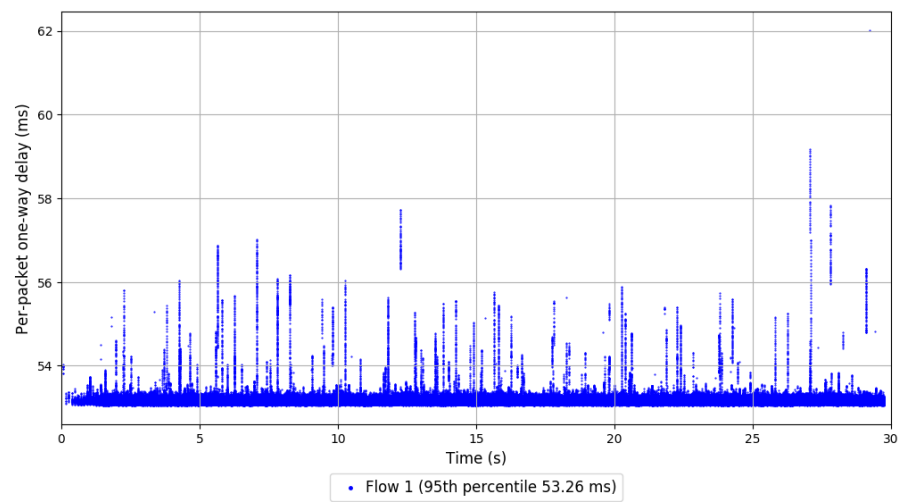
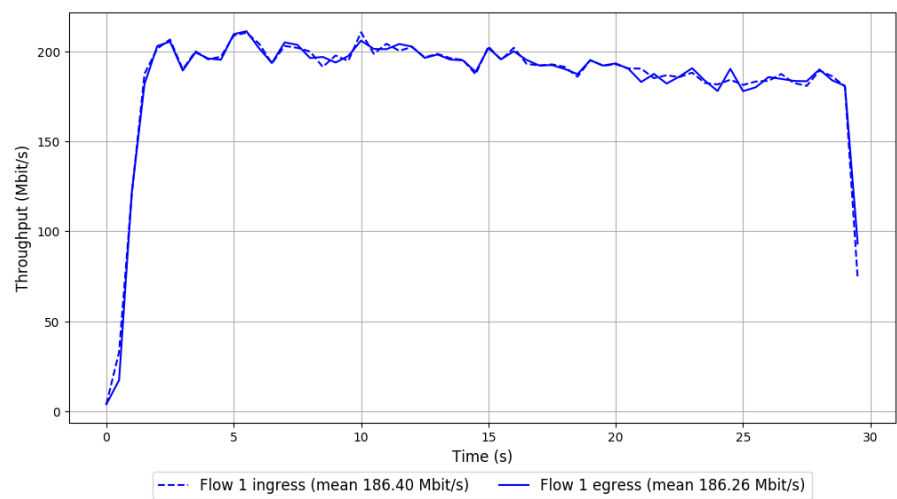
-- Flow 1:

Average throughput: 186.26 Mbit/s

95th percentile per-packet one-way delay: 53.261 ms

Loss rate: 0.08%

Run 8: Report of Indigo-calib — Data Link

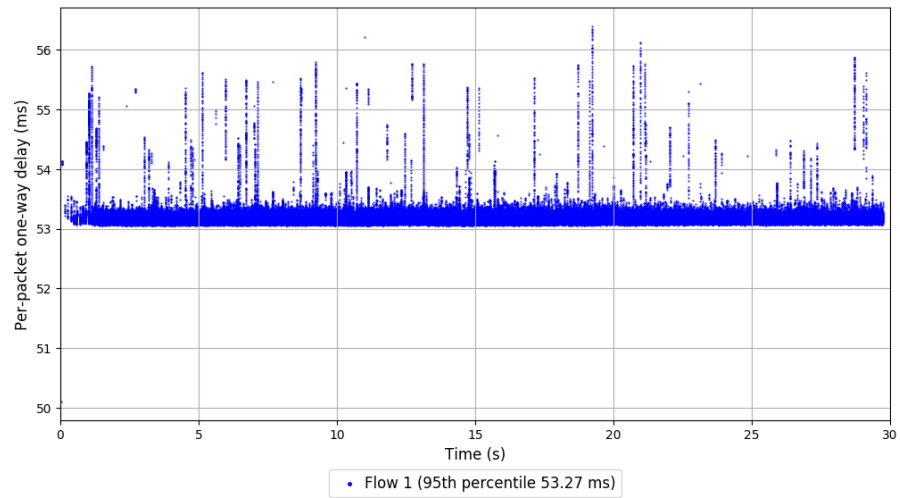
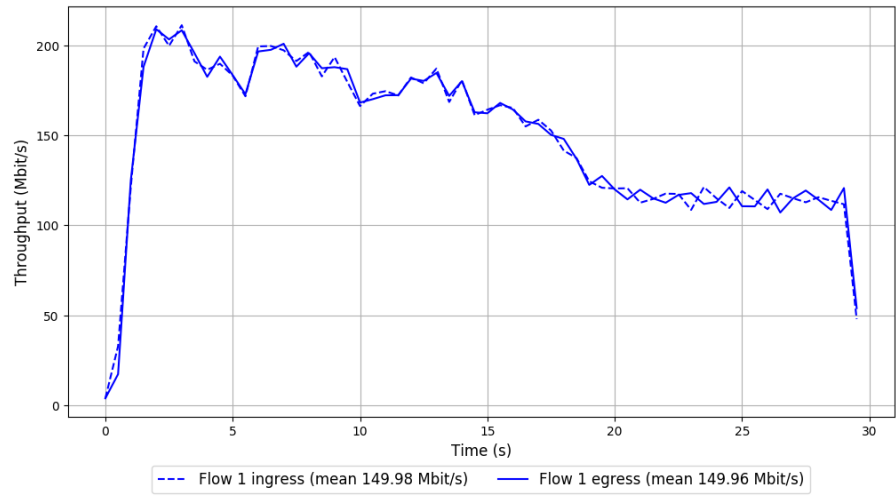


```
Run 9: Statistics of Indigo-calib

Start at: 2017-09-21 17:31:32
End at: 2017-09-21 17:32:02

# Below is generated by plot.py at 2017-09-21 19:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 149.96 Mbit/s
95th percentile per-packet one-way delay: 53.271 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 149.96 Mbit/s
95th percentile per-packet one-way delay: 53.271 ms
Loss rate: 0.01%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-09-21 17:42:17

End at: 2017-09-21 17:42:48

Below is generated by plot.py at 2017-09-21 19:14:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.44 Mbit/s

95th percentile per-packet one-way delay: 53.272 ms

Loss rate: 0.00%

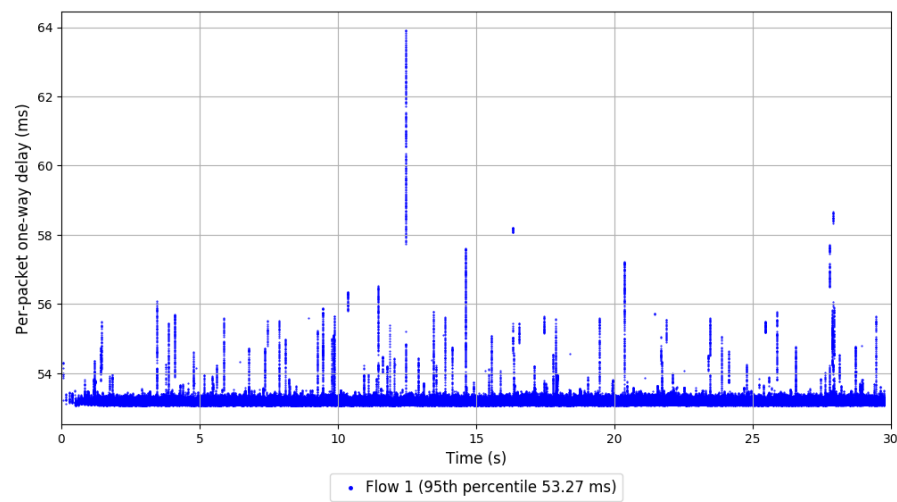
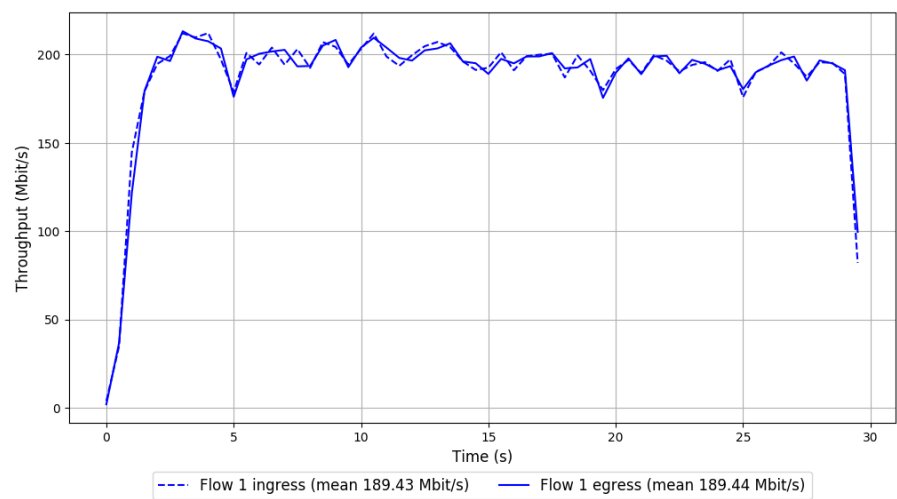
-- Flow 1:

Average throughput: 189.44 Mbit/s

95th percentile per-packet one-way delay: 53.272 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

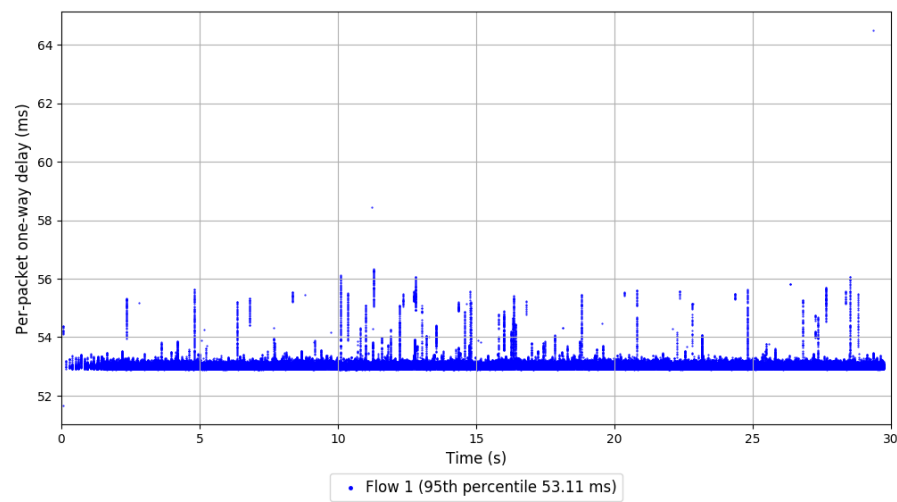
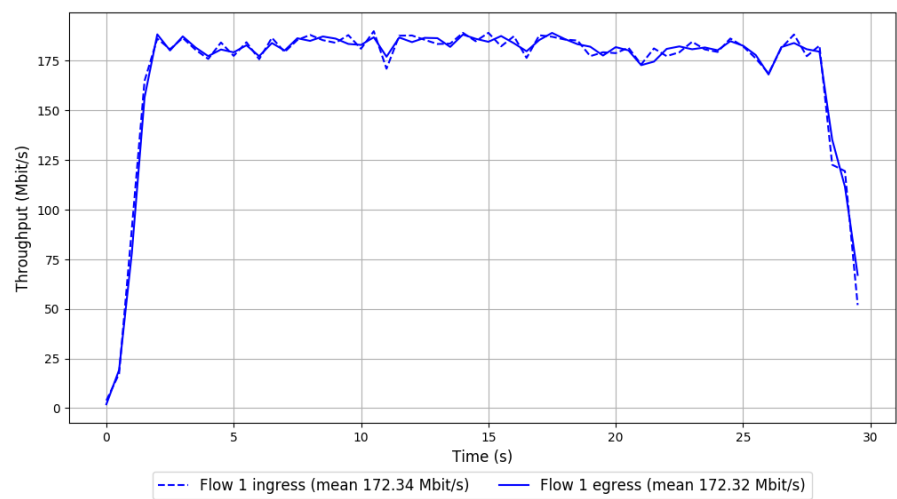


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-21 16:14:03
End at: 2017-09-21 16:14:33

# Below is generated by plot.py at 2017-09-21 19:14:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 172.32 Mbit/s
95th percentile per-packet one-way delay: 53.109 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 172.32 Mbit/s
95th percentile per-packet one-way delay: 53.109 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-delay — Data Link

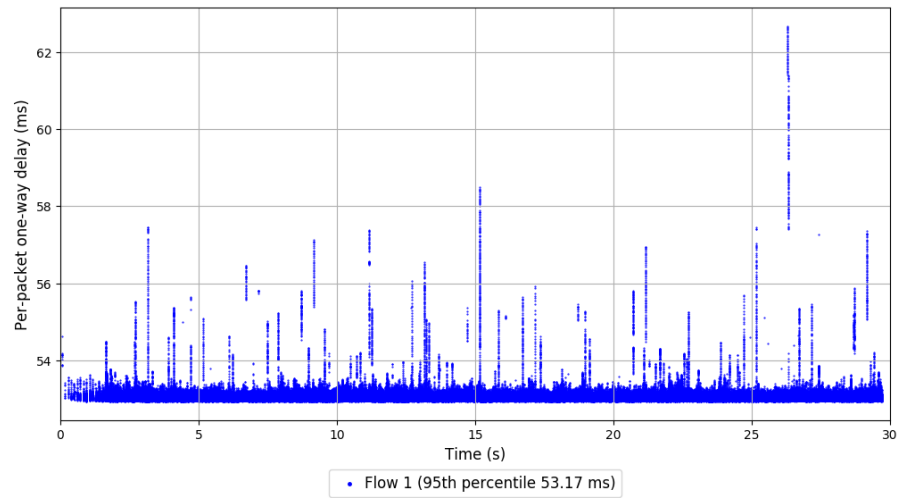
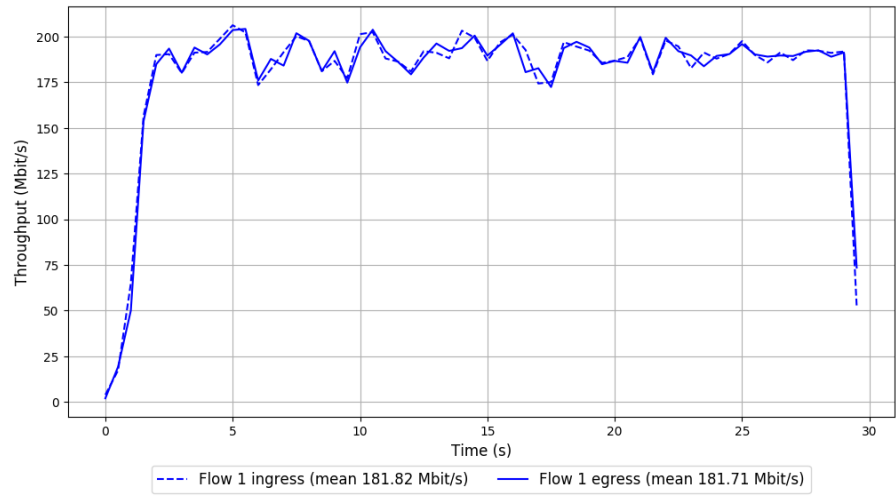


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-21 16:24:22
End at: 2017-09-21 16:24:52

# Below is generated by plot.py at 2017-09-21 19:15:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.71 Mbit/s
95th percentile per-packet one-way delay: 53.169 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 181.71 Mbit/s
95th percentile per-packet one-way delay: 53.169 ms
Loss rate: 0.08%
```

Run 2: Report of Indigo-delay — Data Link



Run 3: Statistics of Indigo-delay

Start at: 2017-09-21 16:34:46

End at: 2017-09-21 16:35:16

Below is generated by plot.py at 2017-09-21 19:16:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.22 Mbit/s

95th percentile per-packet one-way delay: 53.155 ms

Loss rate: 0.01%

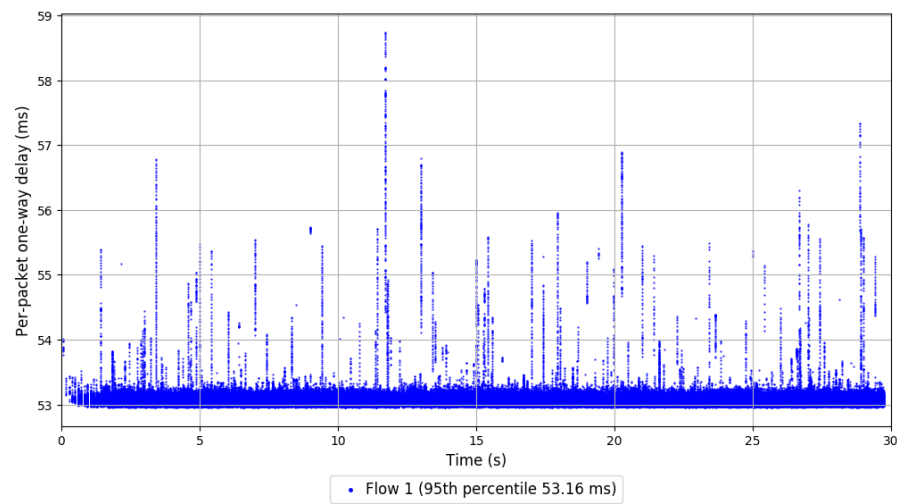
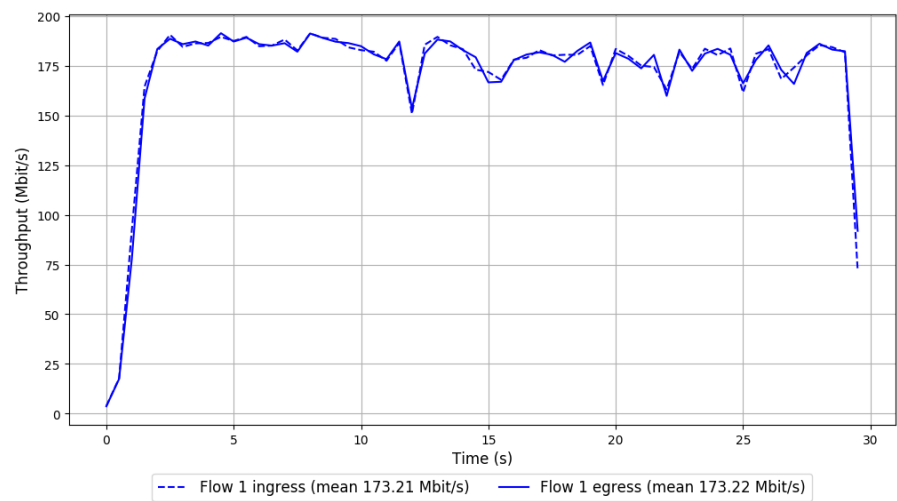
-- Flow 1:

Average throughput: 173.22 Mbit/s

95th percentile per-packet one-way delay: 53.155 ms

Loss rate: 0.01%

Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

Start at: 2017-09-21 16:45:14

End at: 2017-09-21 16:45:44

Below is generated by plot.py at 2017-09-21 19:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.01 Mbit/s

95th percentile per-packet one-way delay: 53.236 ms

Loss rate: 0.01%

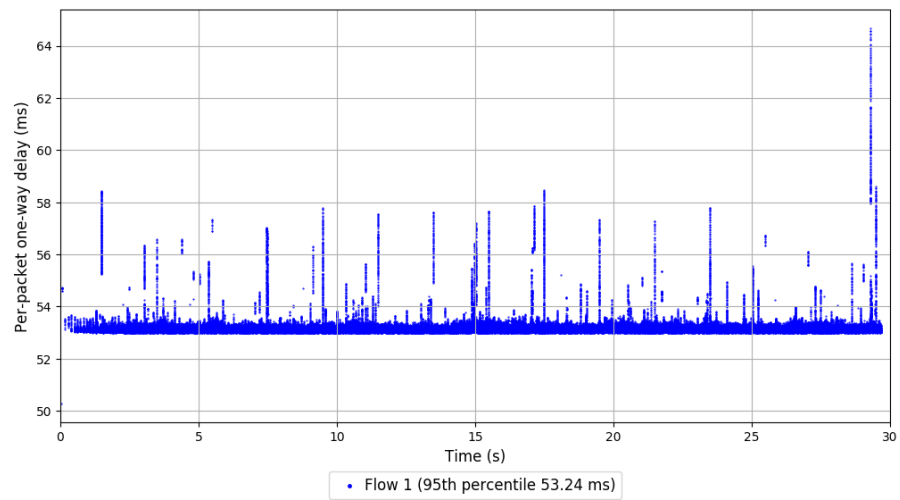
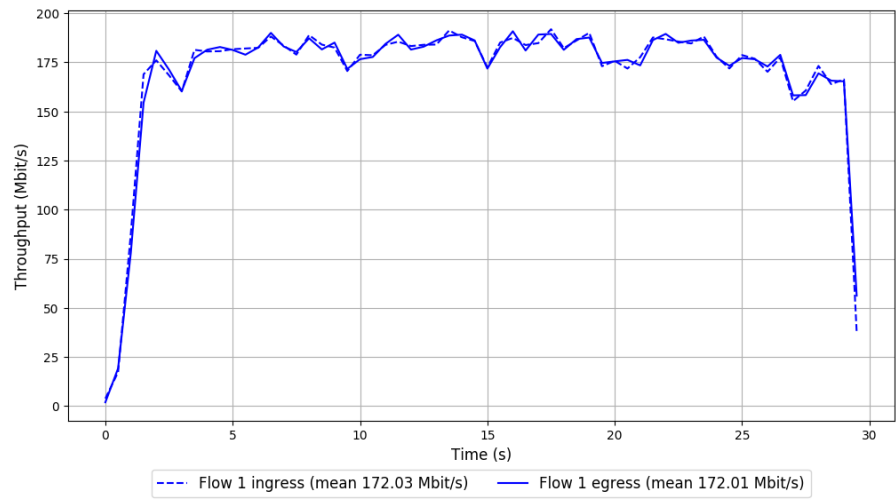
-- Flow 1:

Average throughput: 172.01 Mbit/s

95th percentile per-packet one-way delay: 53.236 ms

Loss rate: 0.01%

Run 4: Report of Indigo-delay — Data Link



Run 5: Statistics of Indigo-delay

Start at: 2017-09-21 16:55:38

End at: 2017-09-21 16:56:08

Below is generated by plot.py at 2017-09-21 19:16:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.95 Mbit/s

95th percentile per-packet one-way delay: 53.270 ms

Loss rate: 0.01%

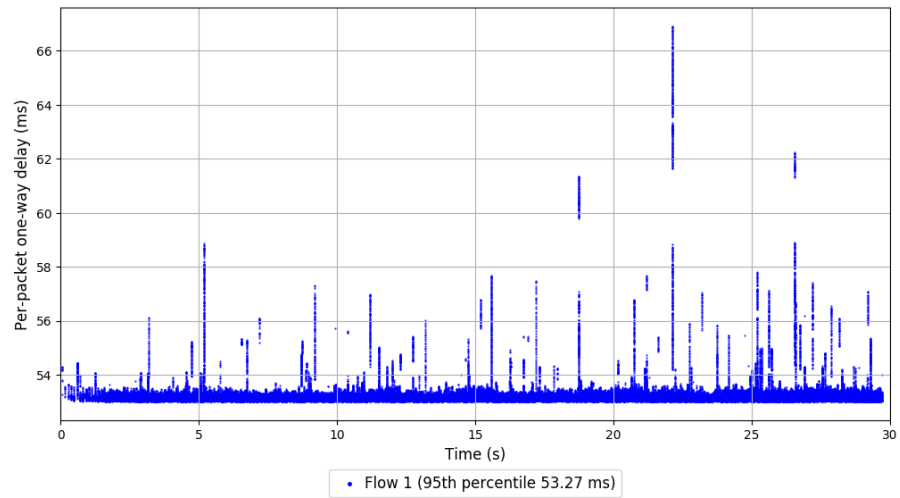
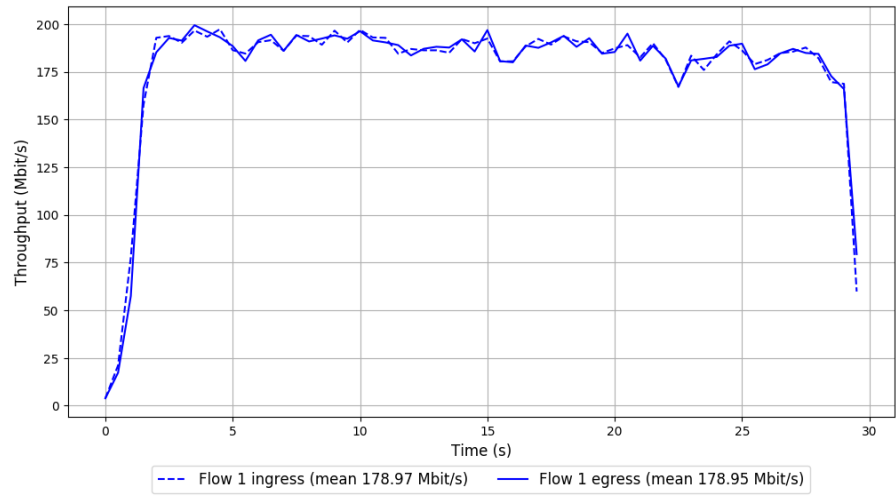
-- Flow 1:

Average throughput: 178.95 Mbit/s

95th percentile per-packet one-way delay: 53.270 ms

Loss rate: 0.01%

Run 5: Report of Indigo-delay — Data Link



Run 6: Statistics of Indigo-delay

Start at: 2017-09-21 17:06:09

End at: 2017-09-21 17:06:39

Below is generated by plot.py at 2017-09-21 19:16:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.76 Mbit/s

95th percentile per-packet one-way delay: 53.256 ms

Loss rate: 0.00%

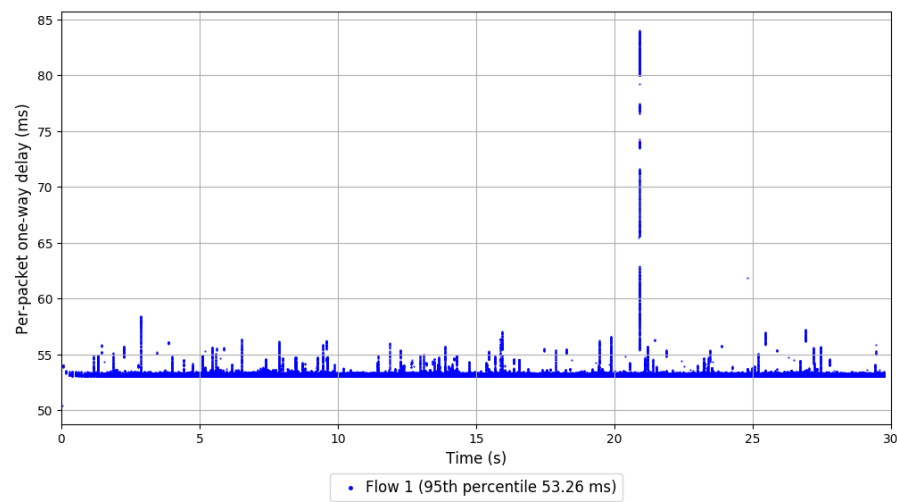
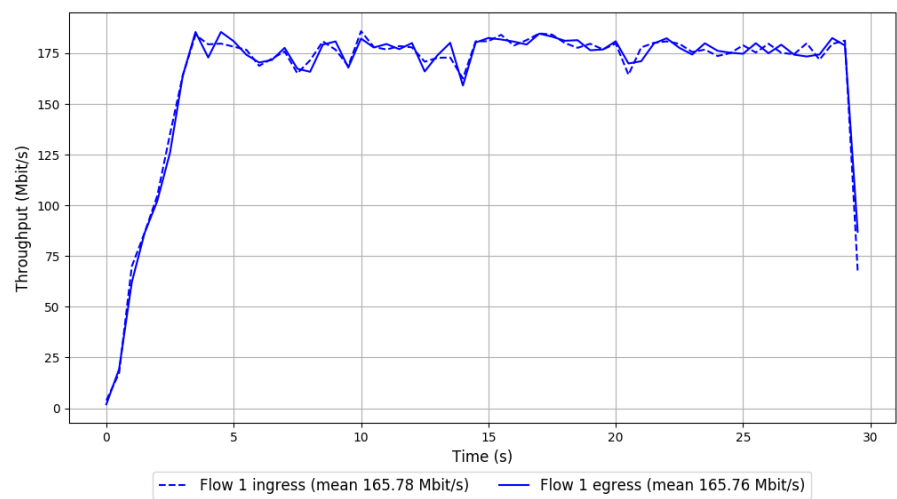
-- Flow 1:

Average throughput: 165.76 Mbit/s

95th percentile per-packet one-way delay: 53.256 ms

Loss rate: 0.00%

Run 6: Report of Indigo-delay — Data Link



Run 7: Statistics of Indigo-delay

Start at: 2017-09-21 17:16:47

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

Below is generated by plot.py at 2017-09-21 19:16:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.73 Mbit/s

95th percentile per-packet one-way delay: 53.270 ms

Loss rate: 0.12%

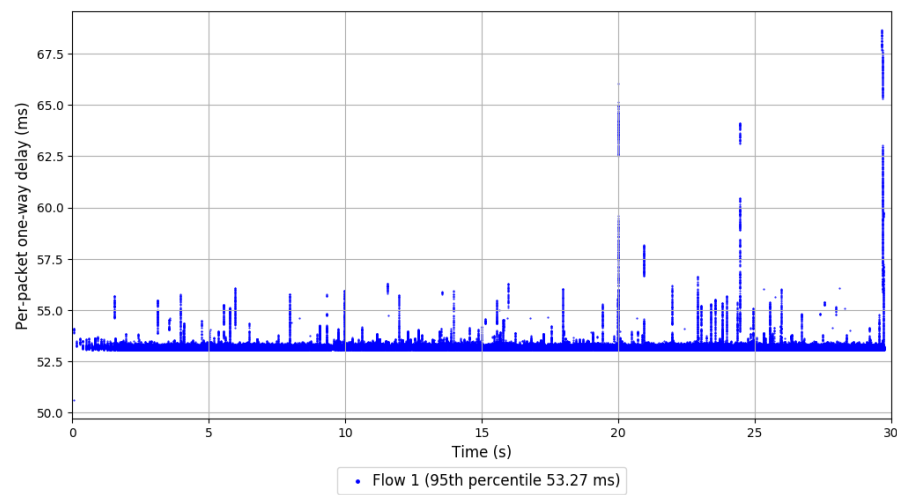
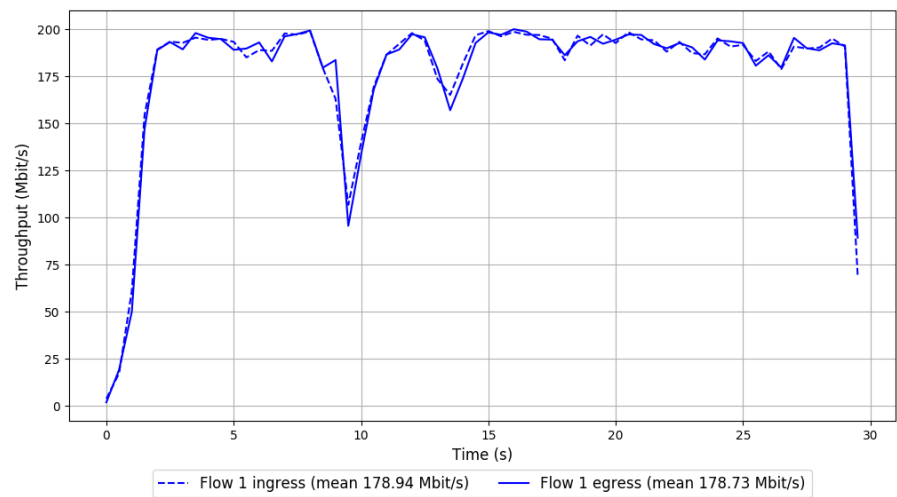
-- Flow 1:

Average throughput: 178.73 Mbit/s

95th percentile per-packet one-way delay: 53.270 ms

Loss rate: 0.12%

Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

Start at: 2017-09-21 17:27:10

End at: 2017-09-21 17:27:40

Below is generated by plot.py at 2017-09-21 19:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.20 Mbit/s

95th percentile per-packet one-way delay: 53.258 ms

Loss rate: 0.01%

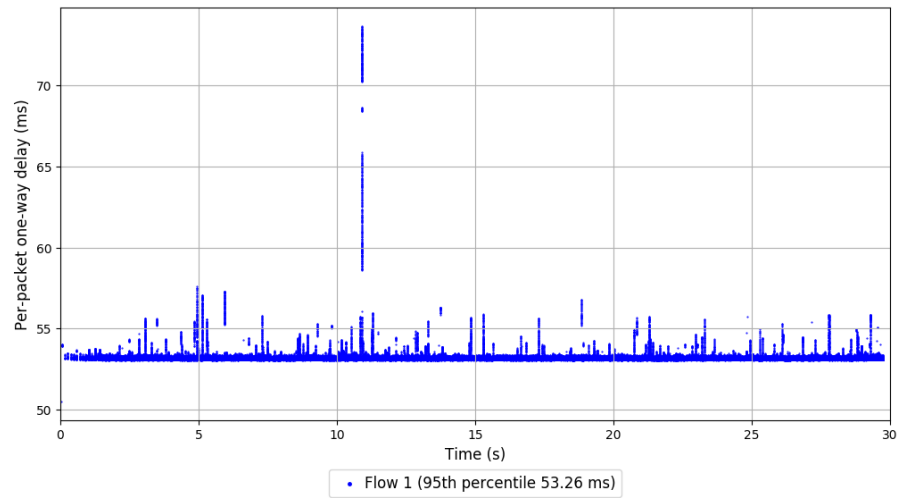
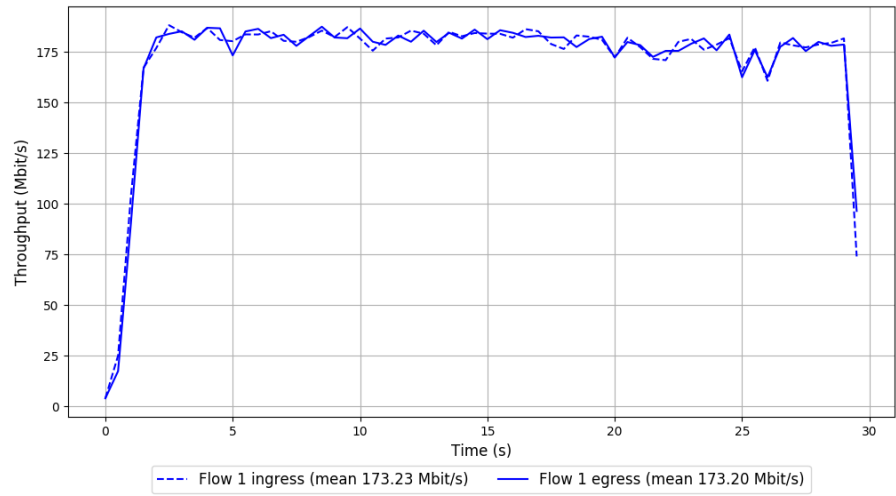
-- Flow 1:

Average throughput: 173.20 Mbit/s

95th percentile per-packet one-way delay: 53.258 ms

Loss rate: 0.01%

Run 8: Report of Indigo-delay — Data Link



Run 9: Statistics of Indigo-delay

Start at: 2017-09-21 17:37:40

End at: 2017-09-21 17:38:10

Below is generated by plot.py at 2017-09-21 19:16:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.50 Mbit/s

95th percentile per-packet one-way delay: 53.278 ms

Loss rate: 0.01%

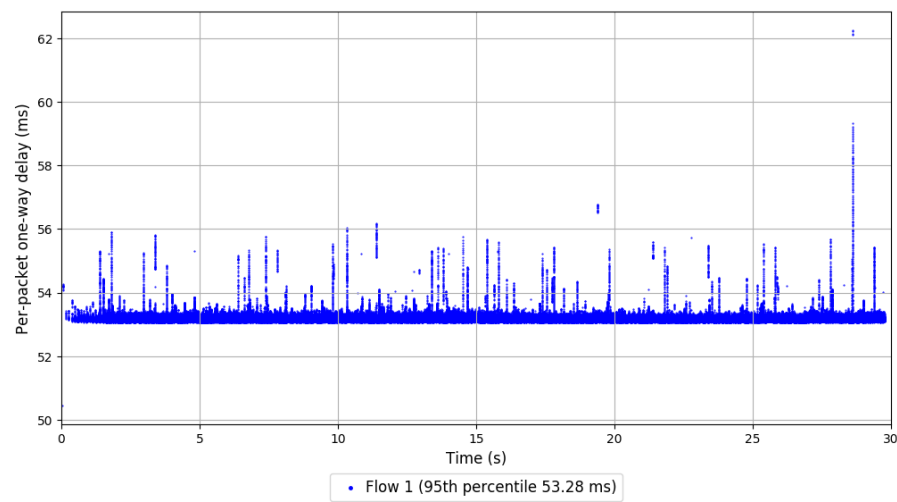
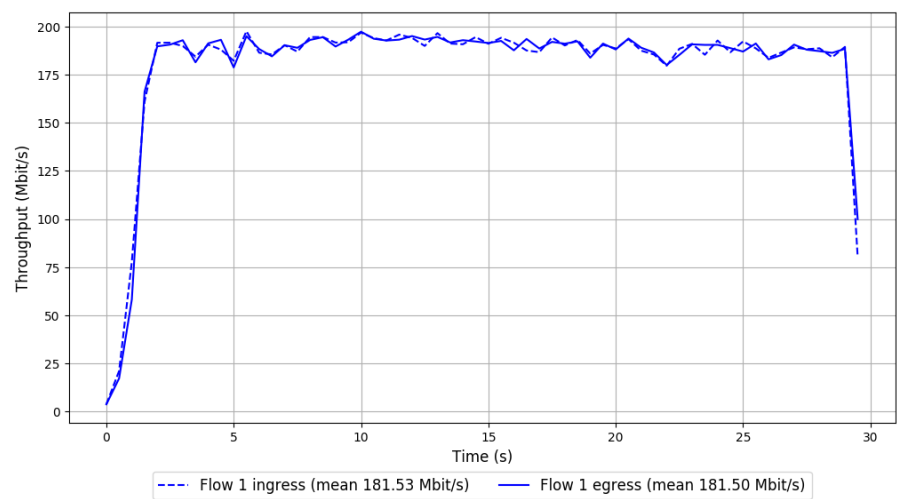
-- Flow 1:

Average throughput: 181.50 Mbit/s

95th percentile per-packet one-way delay: 53.278 ms

Loss rate: 0.01%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-21 17:48:26

End at: 2017-09-21 17:48:56

Below is generated by plot.py at 2017-09-21 19:16:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.03 Mbit/s

95th percentile per-packet one-way delay: 53.301 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 186.03 Mbit/s

95th percentile per-packet one-way delay: 53.301 ms

Loss rate: 0.01%

Run 10: Report of Indigo-delay — Data Link

