

Pantheon Report

Generated at 2017-10-11 03:57:49 (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.

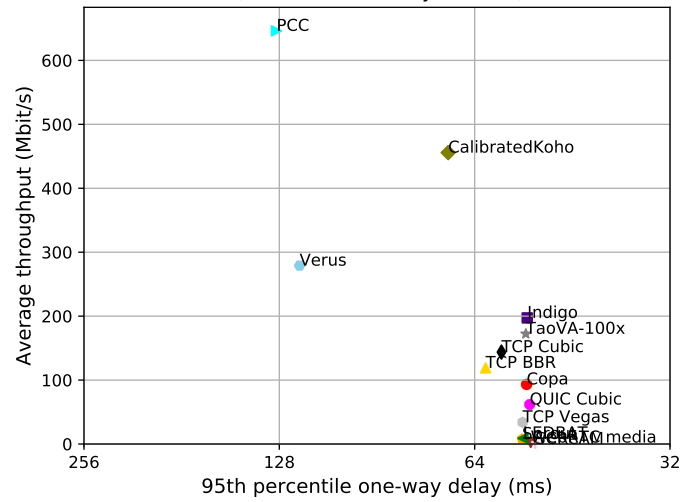
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

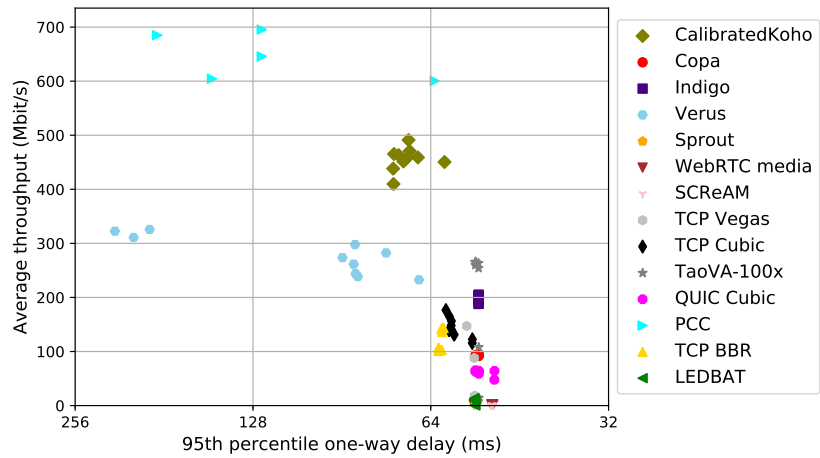
Git summary:

```
branch: indigos @ 45998d6404be7c5106956530acb9cfc43bd06e7d
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	119.04	61.56	0.01
TCP Cubic	9	143.74	58.20	0.01
LEDBAT	10	8.83	53.93	0.03
PCC	5	646.21	129.28	1.66
QUIC Cubic	10	61.76	52.66	0.01
SCReAM	10	0.21	51.64	0.01
WebRTC media	10	2.29	52.46	0.01
Sprout	10	7.78	54.09	0.04
TaoVA-100x	10	172.35	53.38	0.02
TCP Vegas	10	34.01	54.00	0.00
Verus	10	278.98	119.13	1.44
Copa	10	93.24	53.23	0.01
CalibratedKoho	10	455.75	70.31	0.02
Indigo	10	197.25	53.11	0.01

Run 1: Statistics of TCP BBR

Start at: 2017-10-11 00:39:01

End at: 2017-10-11 00:39:31

Below is generated by plot.py at 2017-10-11 03:13:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.80 Mbit/s

95th percentile per-packet one-way delay: 61.153 ms

Loss rate: 0.00%

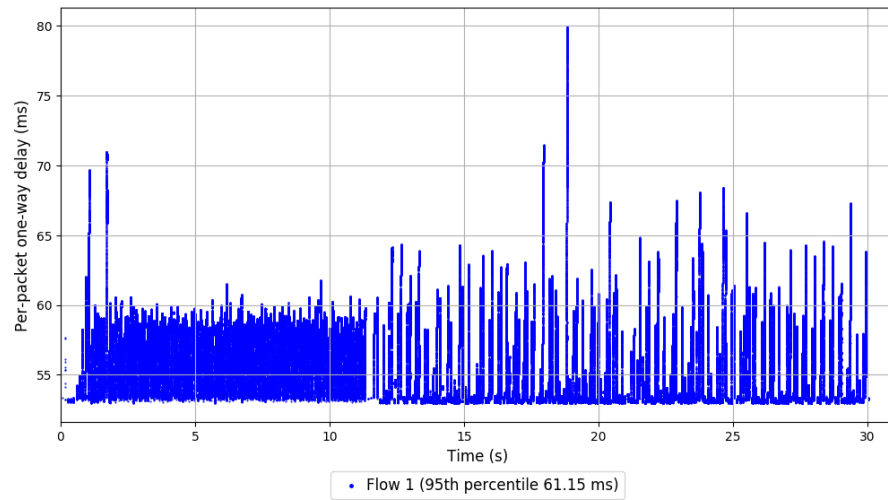
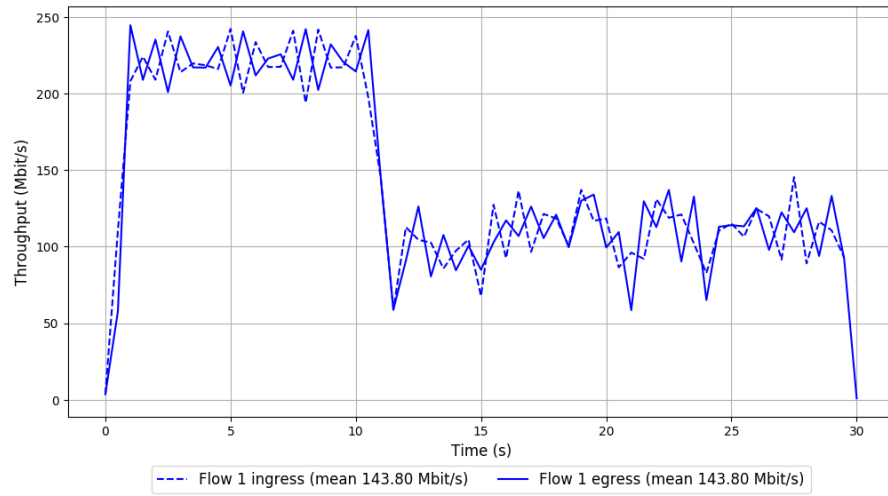
-- Flow 1:

Average throughput: 143.80 Mbit/s

95th percentile per-packet one-way delay: 61.153 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-10-11 00:49:13

End at: 2017-10-11 00:49:43

Below is generated by plot.py at 2017-10-11 03:13:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.92 Mbit/s

95th percentile per-packet one-way delay: 61.398 ms

Loss rate: 0.00%

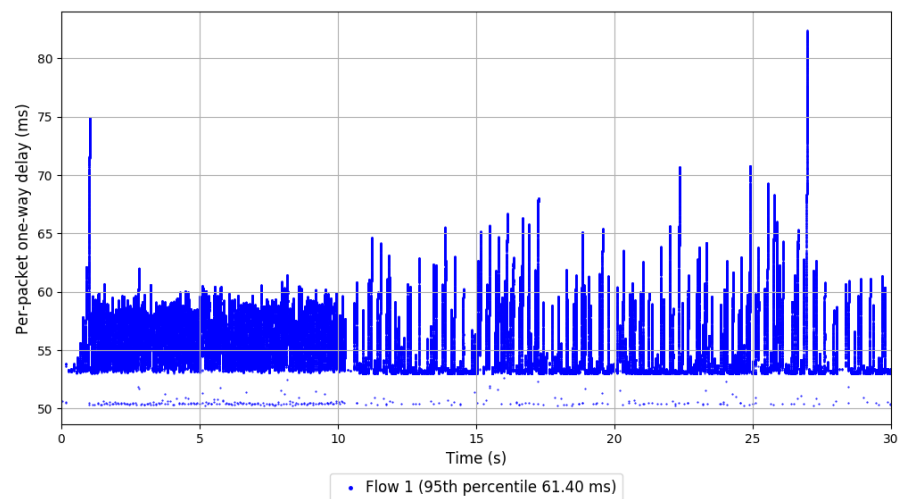
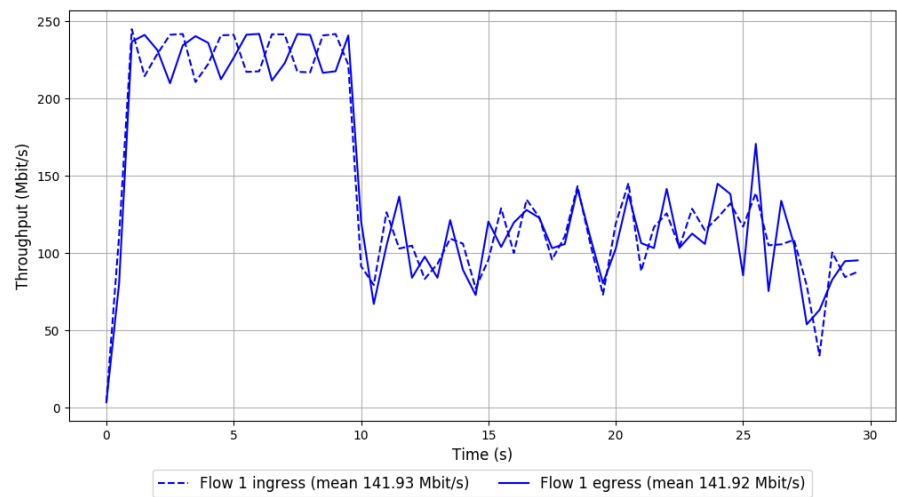
-- Flow 1:

Average throughput: 141.92 Mbit/s

95th percentile per-packet one-way delay: 61.398 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

End at: 2017-10-11 01:00:29

Below is generated by plot.py at 2017-10-11 03:13:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.59 Mbit/s

95th percentile per-packet one-way delay: 60.891 ms

Loss rate: 0.00%

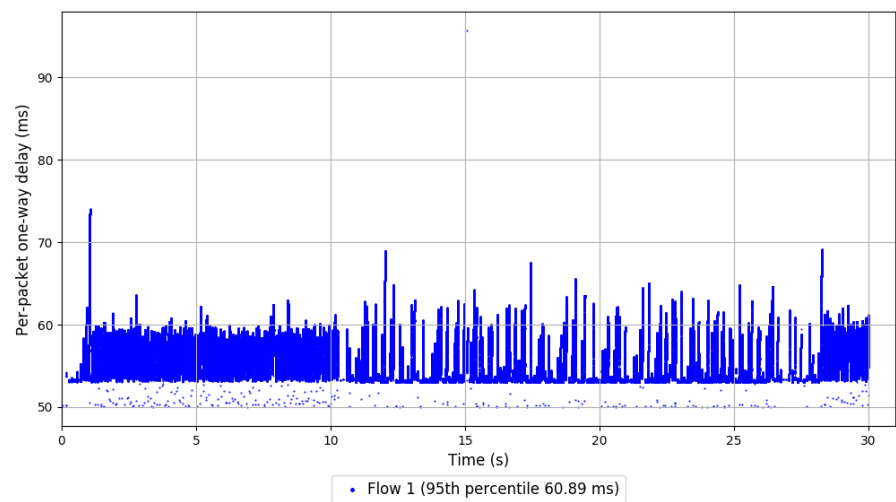
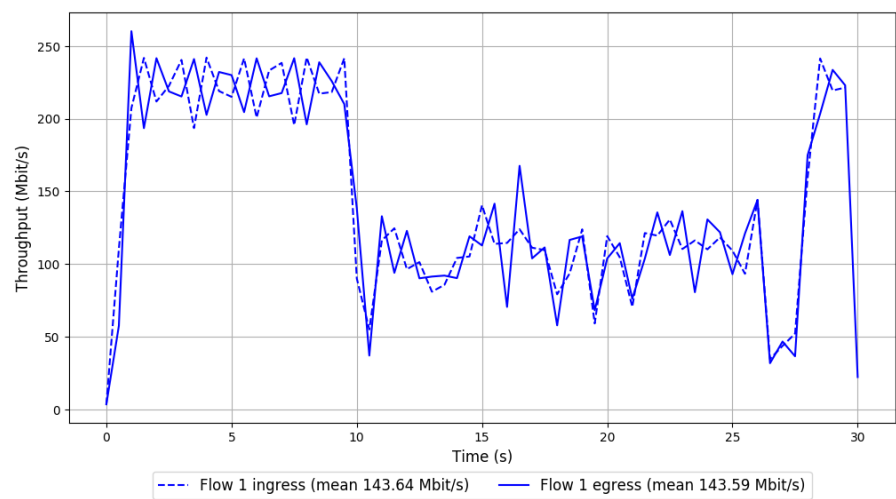
-- Flow 1:

Average throughput: 143.59 Mbit/s

95th percentile per-packet one-way delay: 60.891 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2017-10-11 03:13:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.94 Mbit/s

95th percentile per-packet one-way delay: 62.074 ms

Loss rate: 0.00%

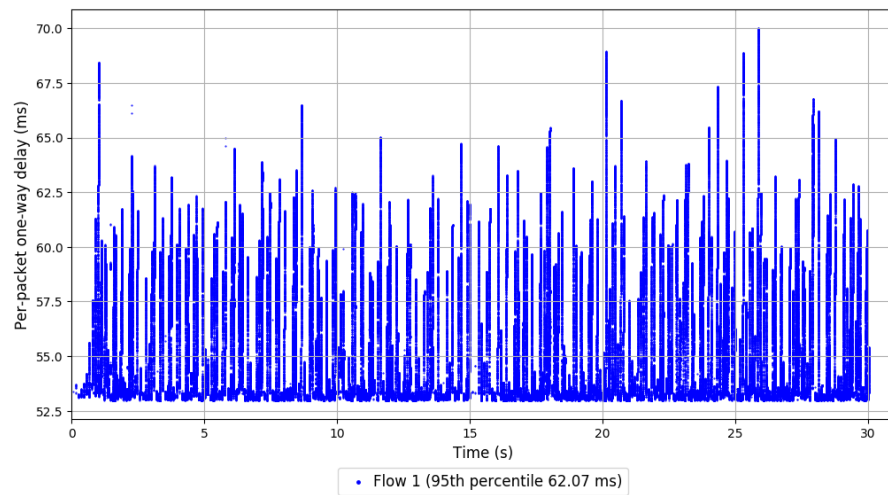
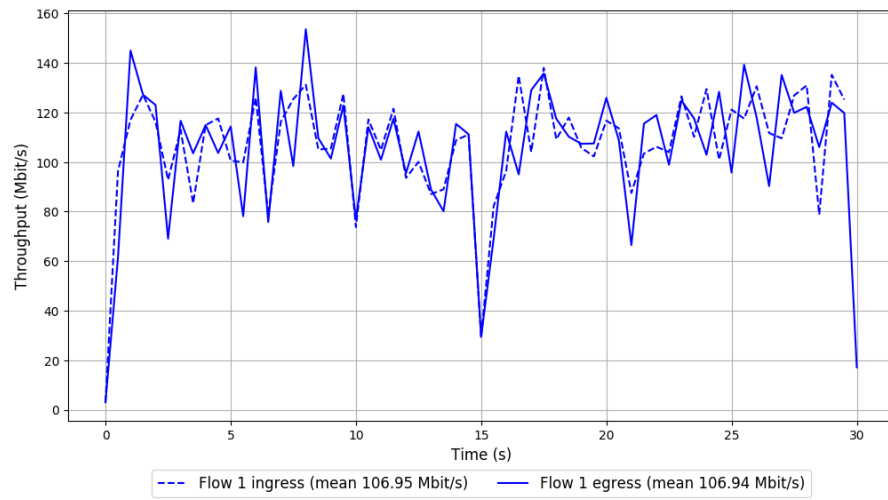
-- Flow 1:

Average throughput: 106.94 Mbit/s

95th percentile per-packet one-way delay: 62.074 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-10-11 01:21:36

End at: 2017-10-11 01:22:06

Below is generated by plot.py at 2017-10-11 03:13:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.23 Mbit/s

95th percentile per-packet one-way delay: 62.071 ms

Loss rate: 0.00%

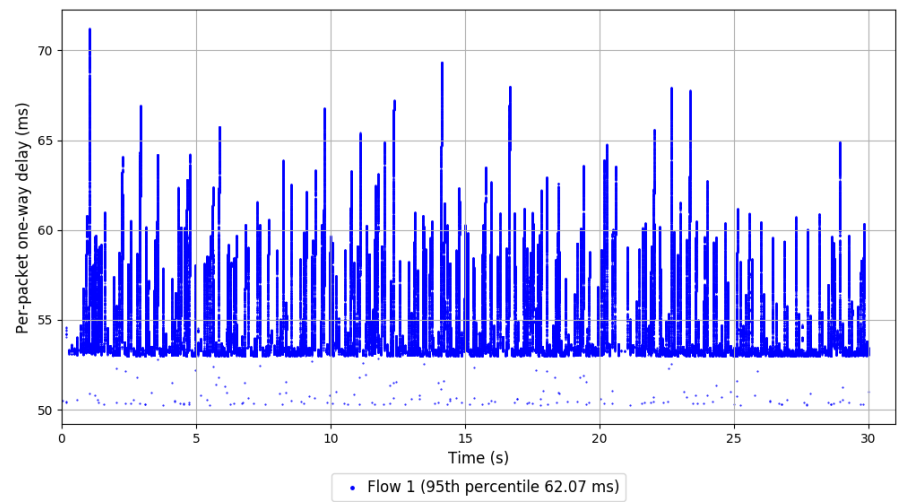
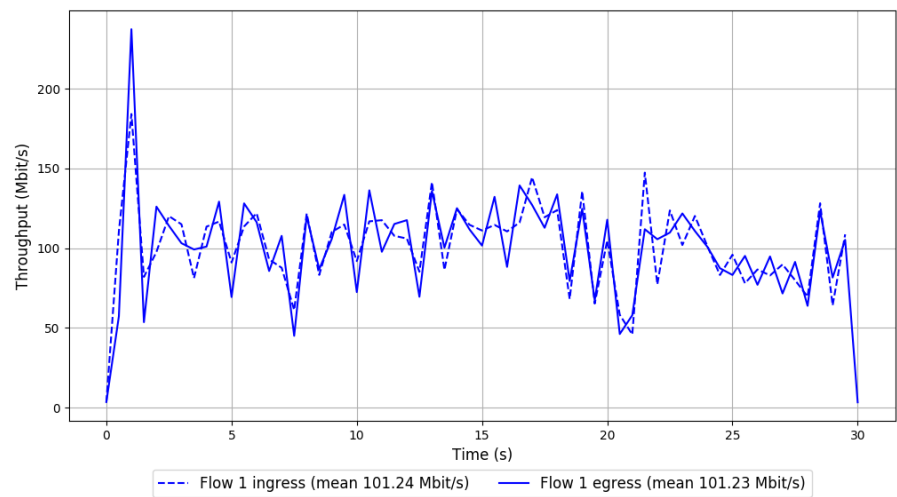
-- Flow 1:

Average throughput: 101.23 Mbit/s

95th percentile per-packet one-way delay: 62.071 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-10-11 01:32:13

End at: 2017-10-11 01:32:43

Below is generated by plot.py at 2017-10-11 03:13:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.47 Mbit/s

95th percentile per-packet one-way delay: 62.081 ms

Loss rate: 0.00%

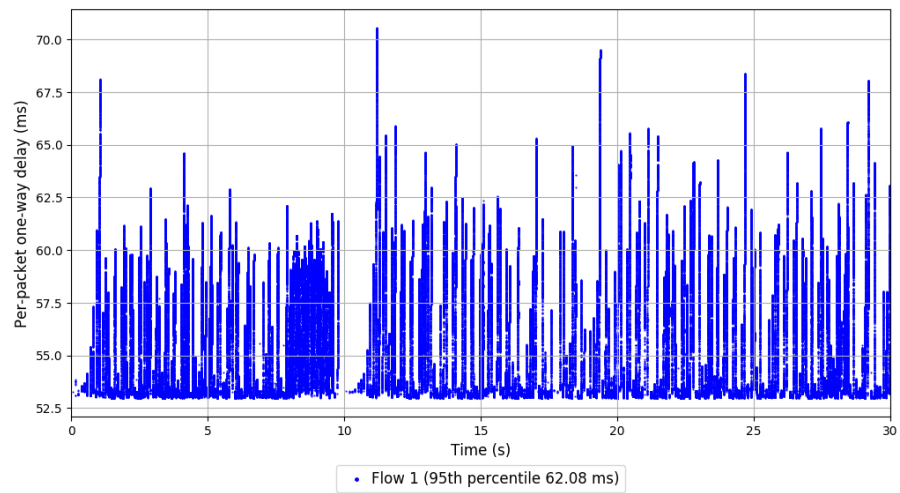
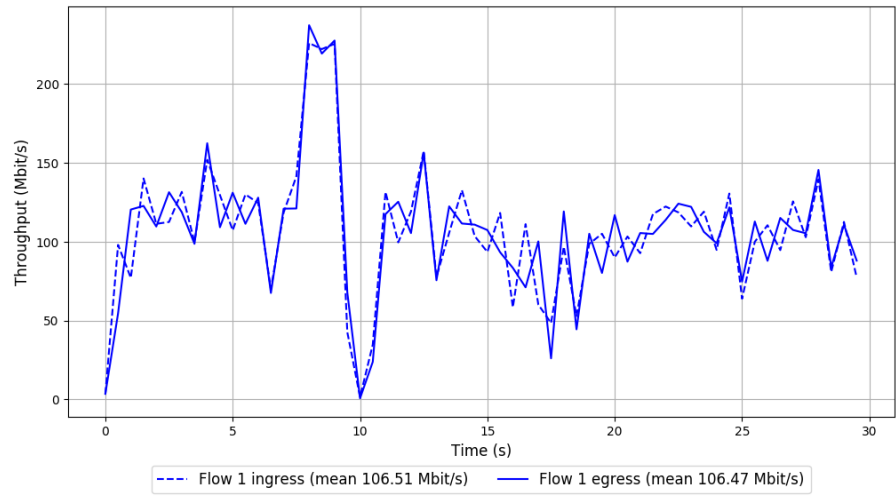
-- Flow 1:

Average throughput: 106.47 Mbit/s

95th percentile per-packet one-way delay: 62.081 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-10-11 01:42:16

End at: 2017-10-11 01:42:46

Below is generated by plot.py at 2017-10-11 03:13:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.74 Mbit/s

95th percentile per-packet one-way delay: 61.342 ms

Loss rate: 0.04%

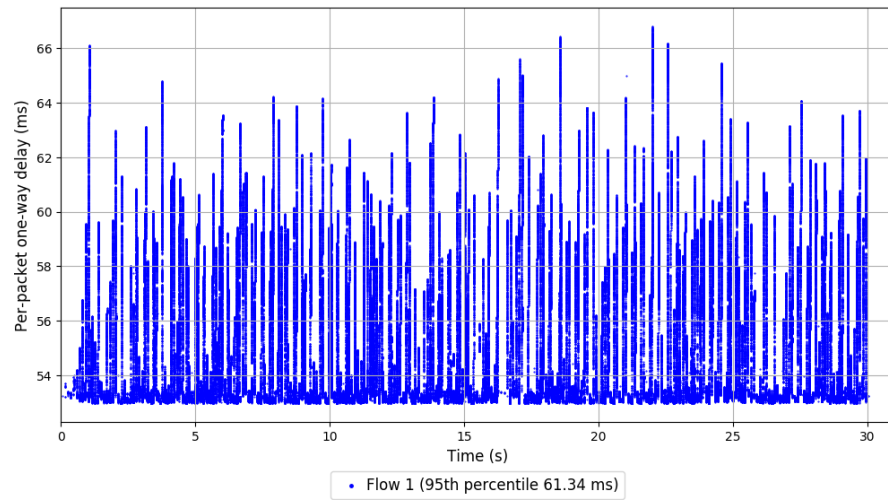
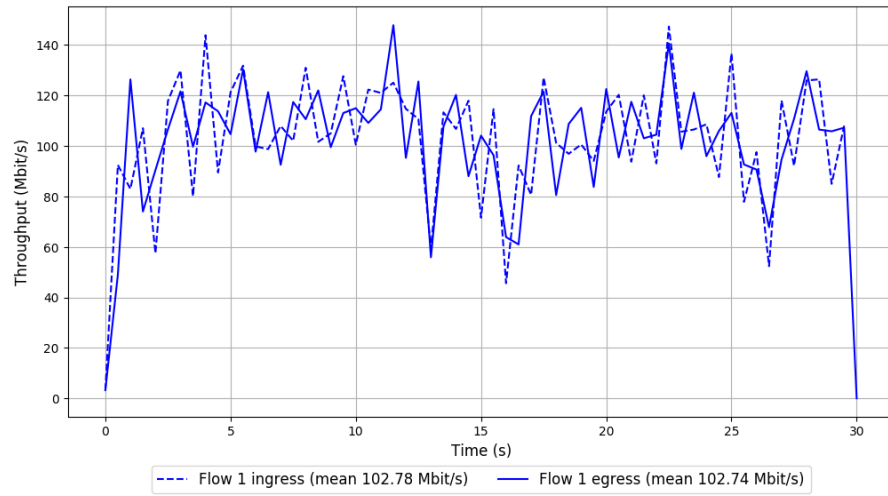
-- Flow 1:

Average throughput: 102.74 Mbit/s

95th percentile per-packet one-way delay: 61.342 ms

Loss rate: 0.04%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

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

End at: 2017-10-11 01:53:40

Below is generated by plot.py at 2017-10-11 03:13:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.33 Mbit/s

95th percentile per-packet one-way delay: 61.220 ms

Loss rate: 0.00%

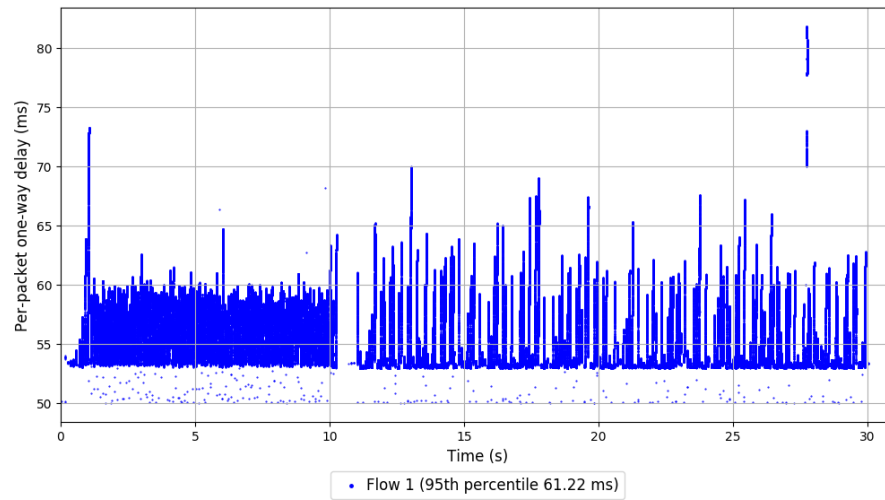
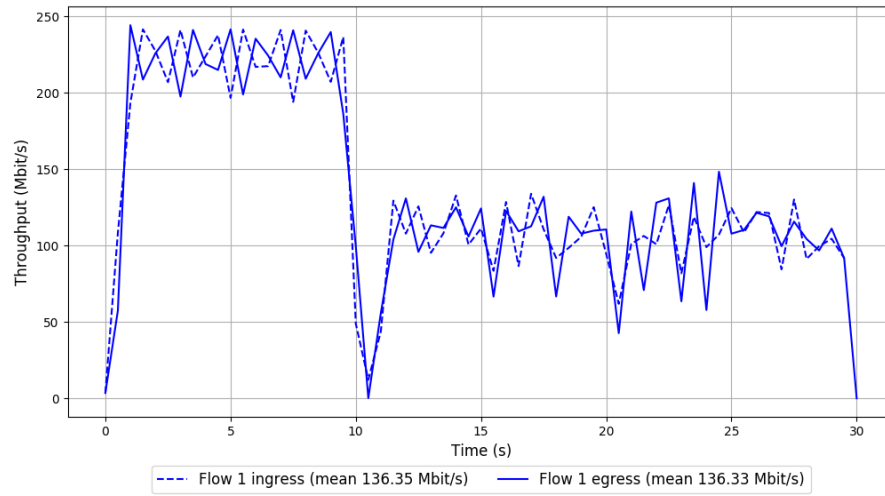
-- Flow 1:

Average throughput: 136.33 Mbit/s

95th percentile per-packet one-way delay: 61.220 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-10-11 02:03:24

End at: 2017-10-11 02:03:55

Below is generated by plot.py at 2017-10-11 03:14:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.25 Mbit/s

95th percentile per-packet one-way delay: 61.942 ms

Loss rate: 0.06%

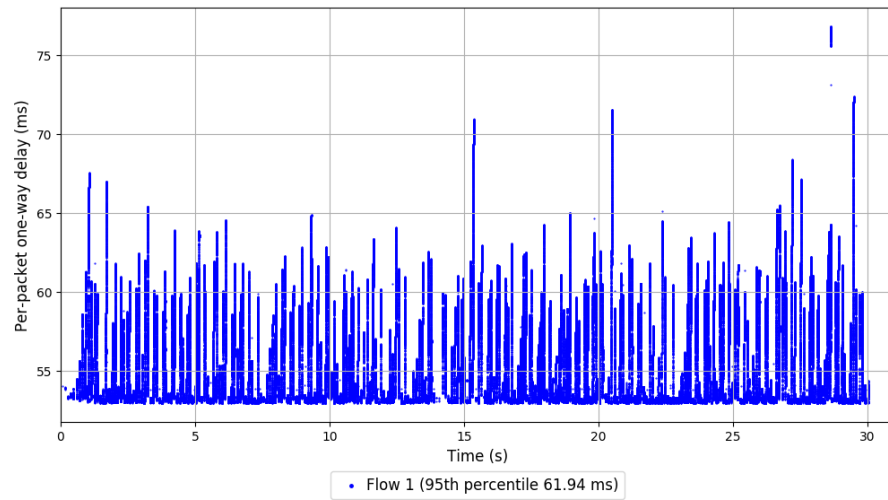
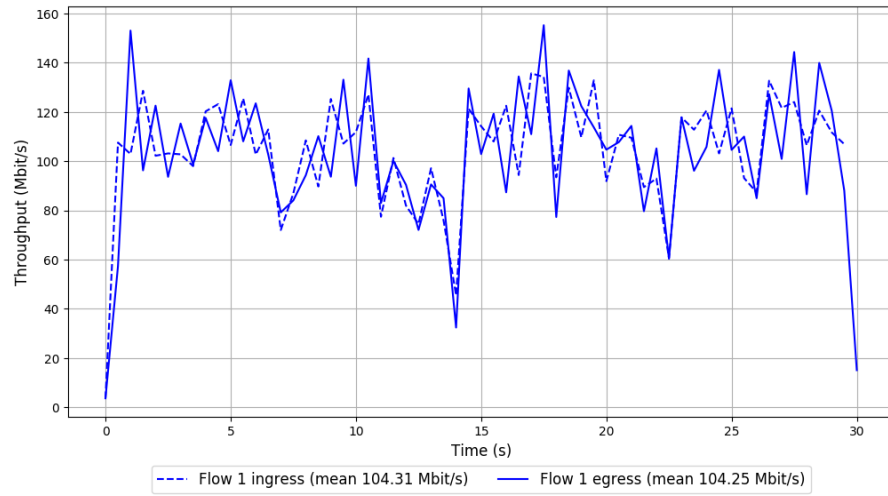
-- Flow 1:

Average throughput: 104.25 Mbit/s

95th percentile per-packet one-way delay: 61.942 ms

Loss rate: 0.06%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-10-11 02:14:08

End at: 2017-10-11 02:14:38

Below is generated by plot.py at 2017-10-11 03:14:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.15 Mbit/s

95th percentile per-packet one-way delay: 61.431 ms

Loss rate: 0.00%

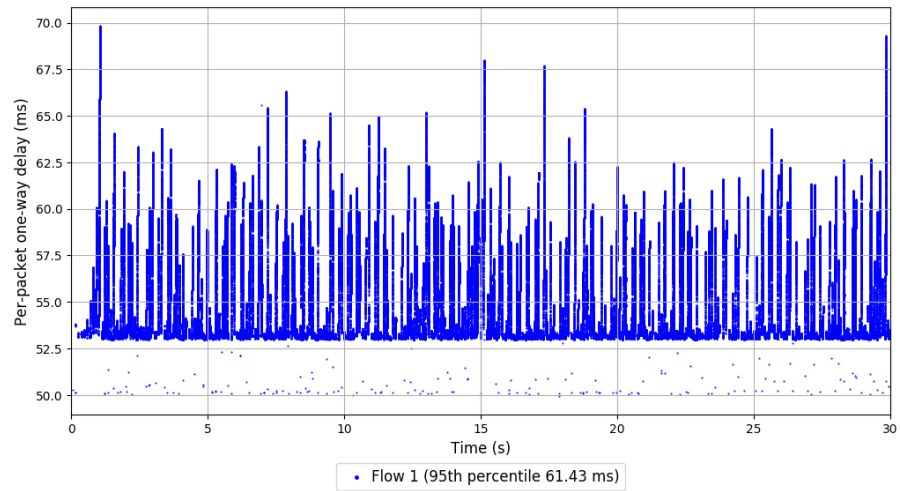
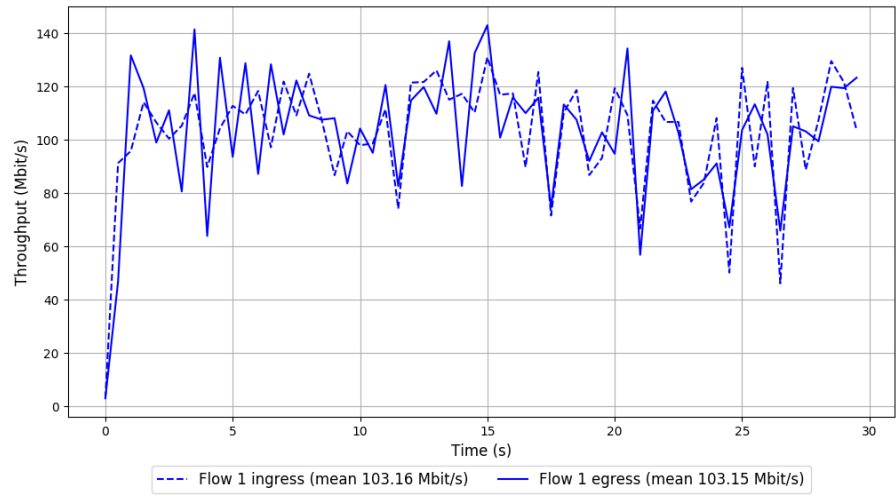
-- Flow 1:

Average throughput: 103.15 Mbit/s

95th percentile per-packet one-way delay: 61.431 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link

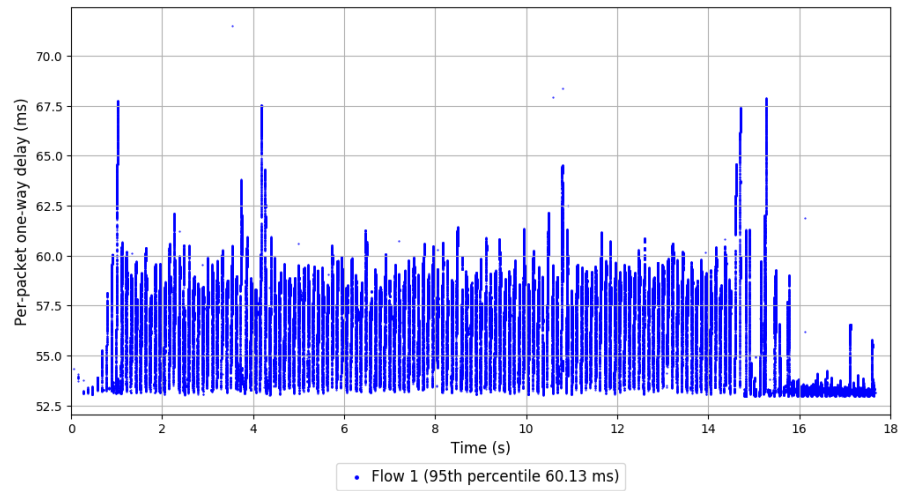
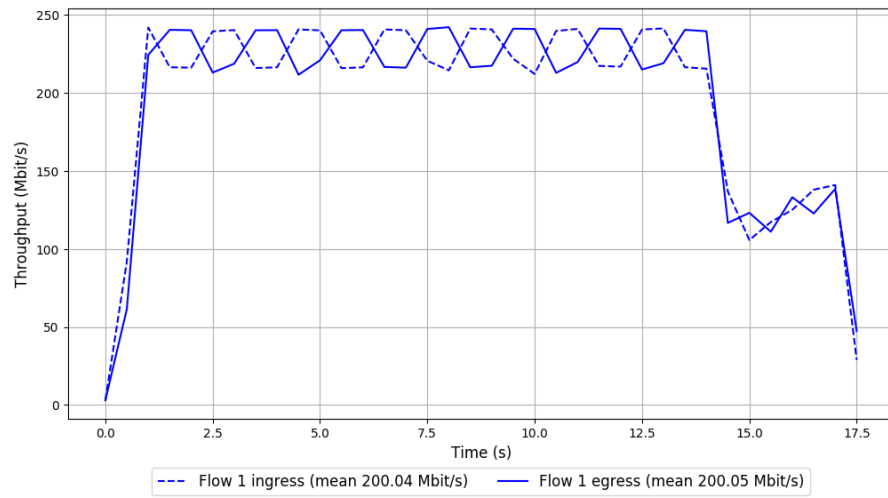


Run 1: Statistics of TCP Cubic

Start at: 2017-10-11 00:32:12

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

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-10-11 00:43:09

End at: 2017-10-11 00:43:39

Below is generated by plot.py at 2017-10-11 03:15:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.32 Mbit/s

95th percentile per-packet one-way delay: 59.566 ms

Loss rate: 0.02%

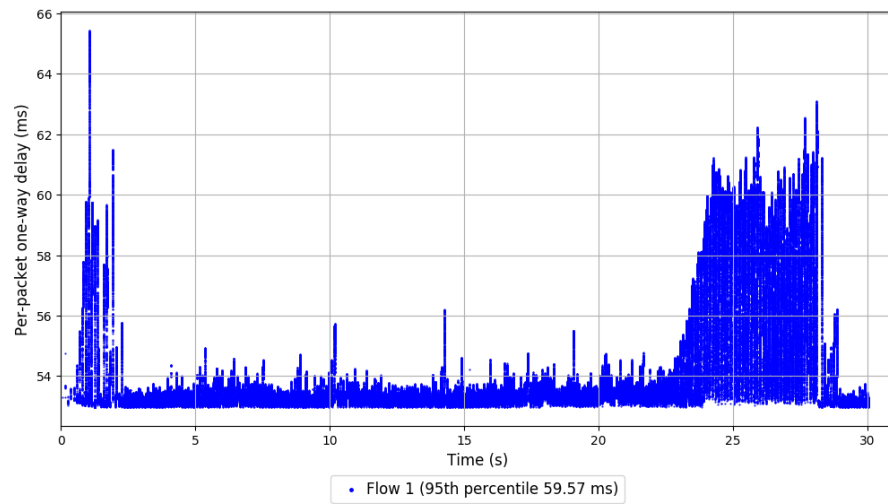
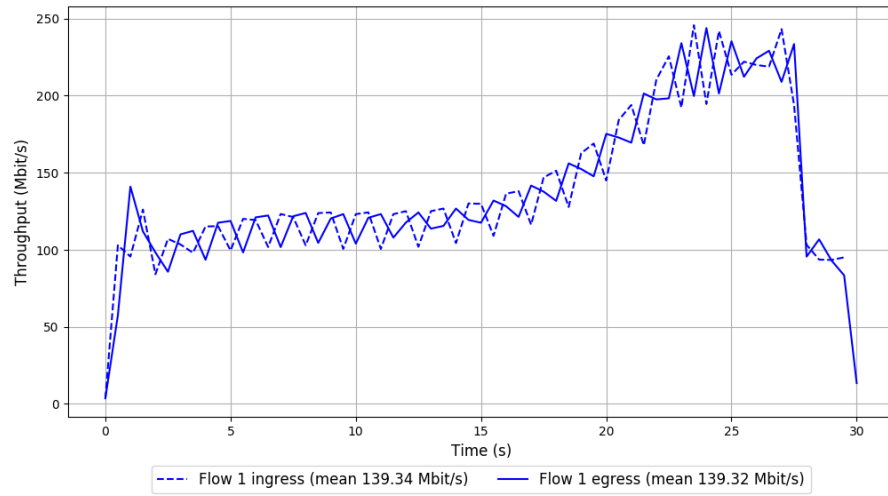
-- Flow 1:

Average throughput: 139.32 Mbit/s

95th percentile per-packet one-way delay: 59.566 ms

Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-10-11 00:53:20

End at: 2017-10-11 00:53:50

Below is generated by plot.py at 2017-10-11 03:16:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.62 Mbit/s

95th percentile per-packet one-way delay: 60.330 ms

Loss rate: 0.00%

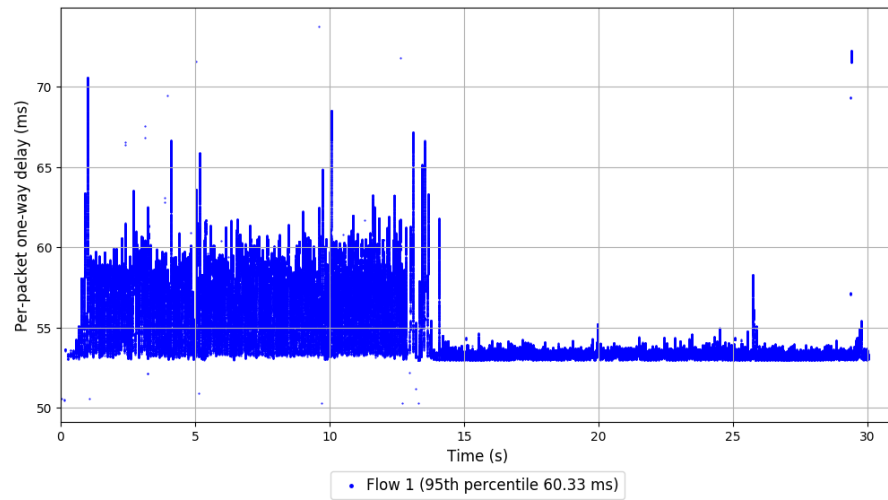
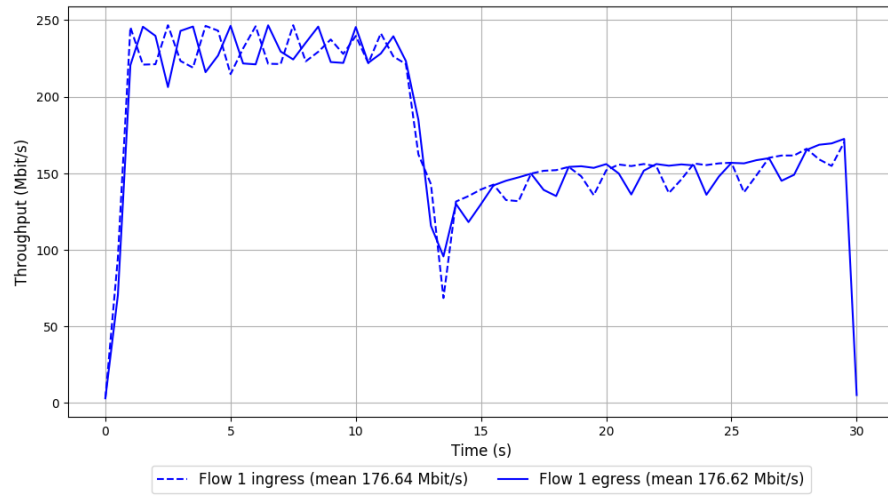
-- Flow 1:

Average throughput: 176.62 Mbit/s

95th percentile per-packet one-way delay: 60.330 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-10-11 01:04:07

End at: 2017-10-11 01:04:37

Below is generated by plot.py at 2017-10-11 03:16:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.35 Mbit/s

95th percentile per-packet one-way delay: 59.045 ms

Loss rate: 0.01%

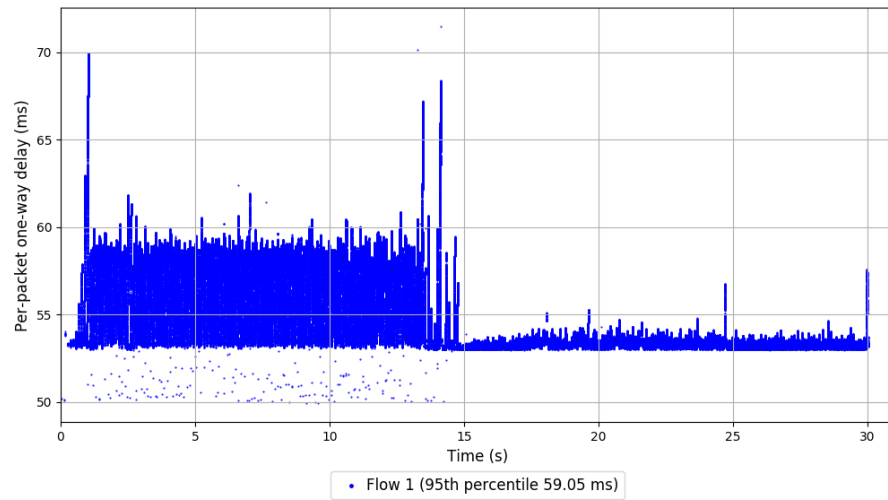
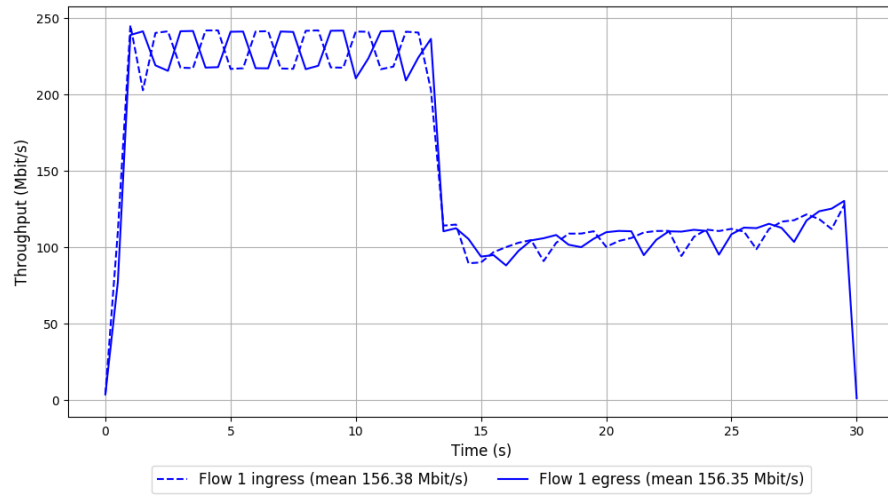
-- Flow 1:

Average throughput: 156.35 Mbit/s

95th percentile per-packet one-way delay: 59.045 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-10-11 01:14:45

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

Below is generated by plot.py at 2017-10-11 03:16:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.71 Mbit/s

95th percentile per-packet one-way delay: 59.514 ms

Loss rate: 0.00%

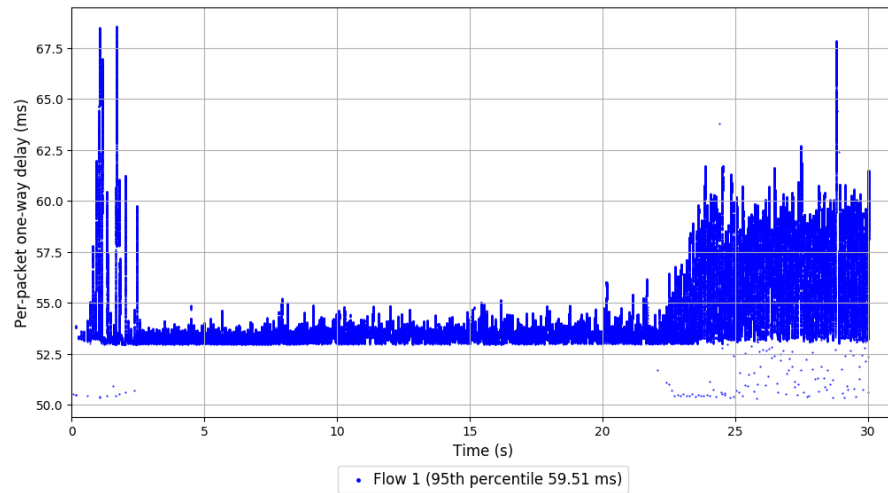
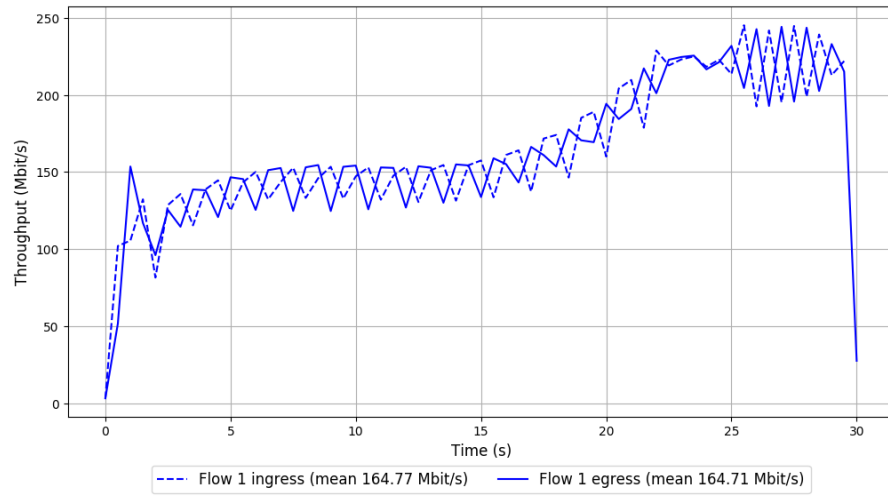
-- Flow 1:

Average throughput: 164.71 Mbit/s

95th percentile per-packet one-way delay: 59.514 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-10-11 01:25:41

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

Below is generated by plot.py at 2017-10-11 03:16:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.09 Mbit/s

95th percentile per-packet one-way delay: 58.414 ms

Loss rate: 0.00%

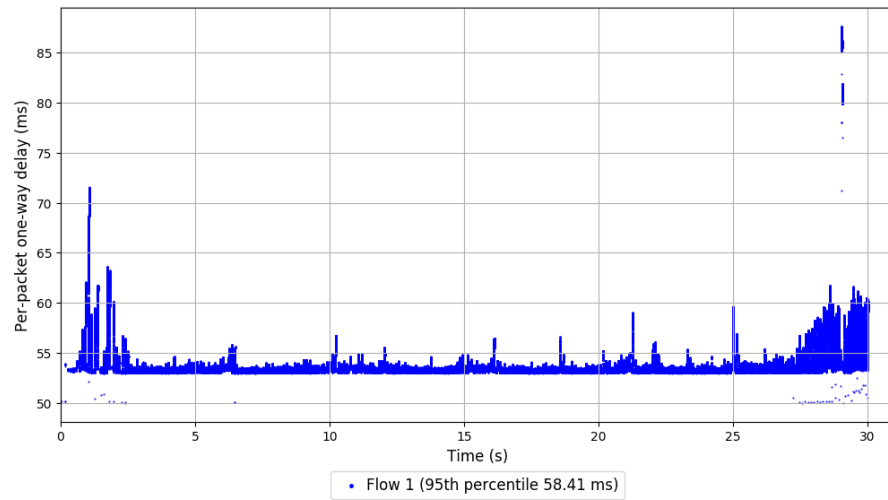
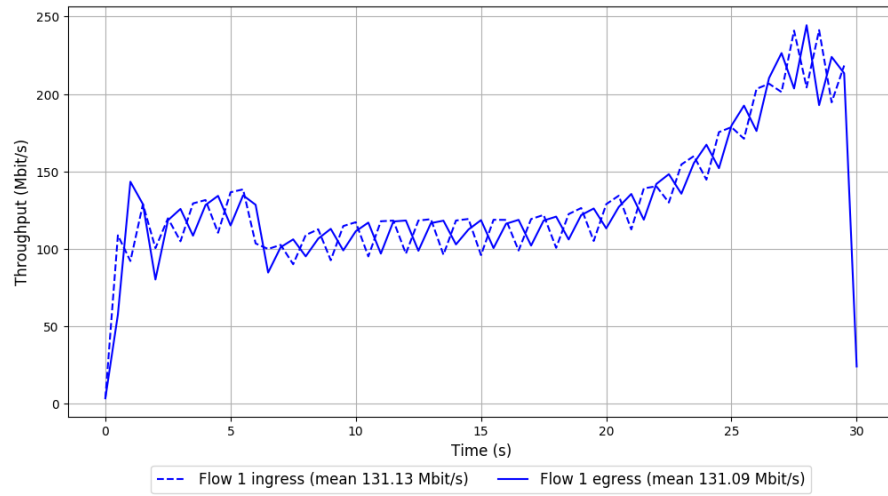
-- Flow 1:

Average throughput: 131.09 Mbit/s

95th percentile per-packet one-way delay: 58.414 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-10-11 01:36:19

End at: 2017-10-11 01:36:49

Below is generated by plot.py at 2017-10-11 03:16:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.48 Mbit/s

95th percentile per-packet one-way delay: 54.412 ms

Loss rate: 0.00%

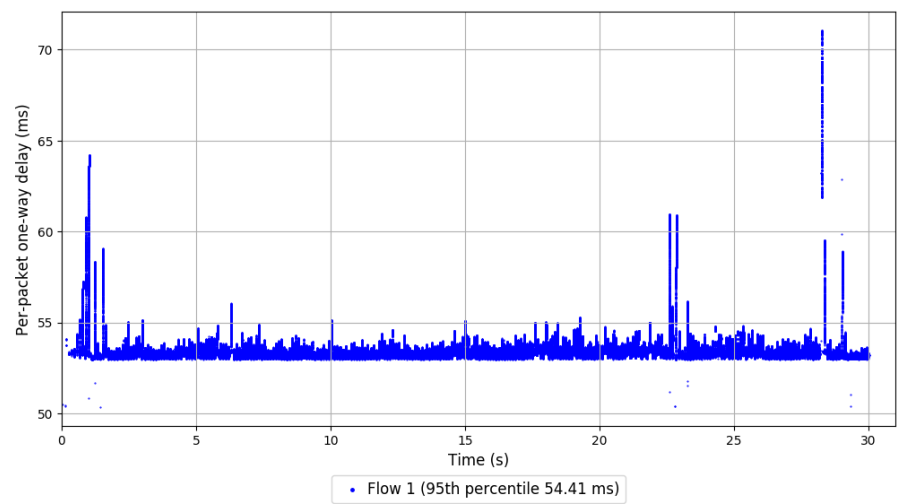
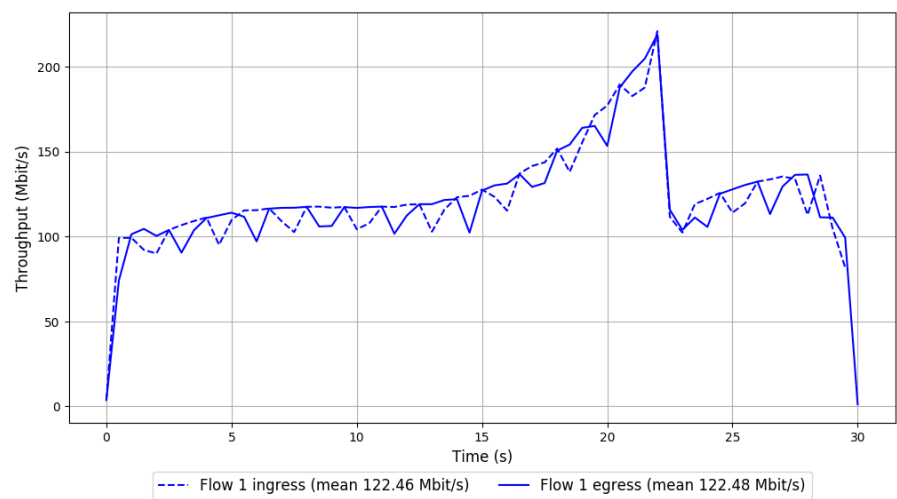
-- Flow 1:

Average throughput: 122.48 Mbit/s

95th percentile per-packet one-way delay: 54.412 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

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

End at: 2017-10-11 01:46:51

Below is generated by plot.py at 2017-10-11 03:16:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.16 Mbit/s

95th percentile per-packet one-way delay: 59.094 ms

Loss rate: 0.00%

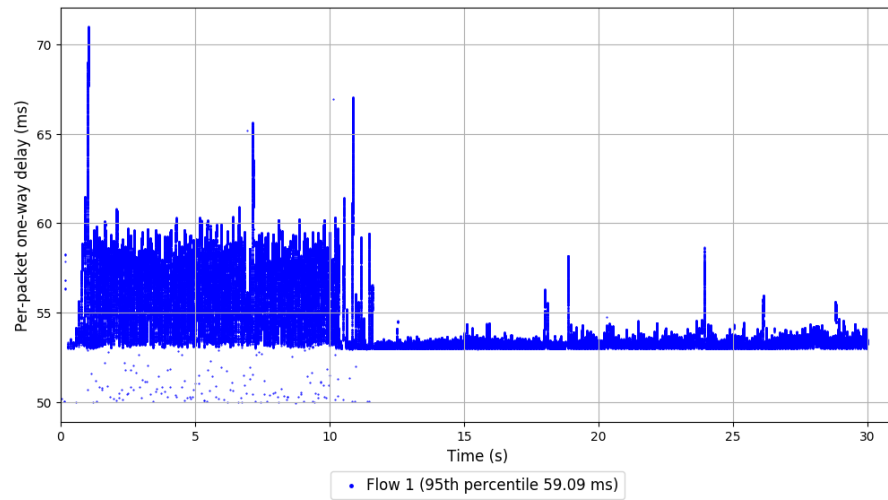
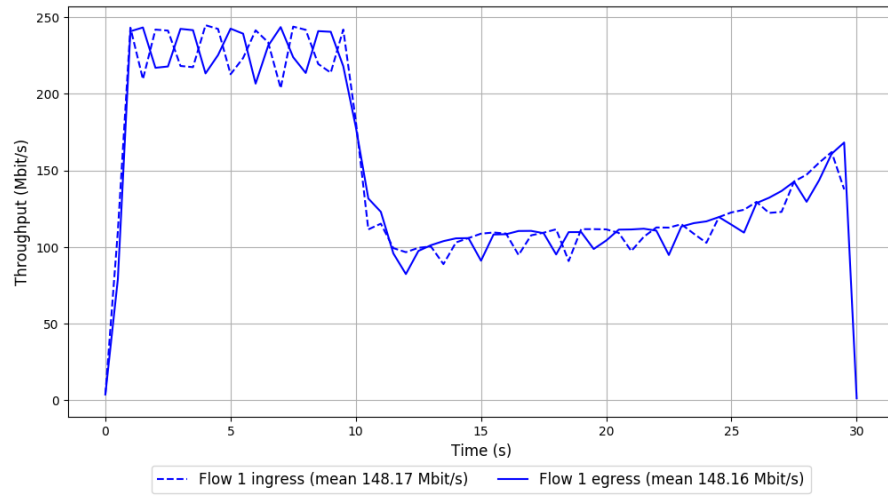
-- Flow 1:

Average throughput: 148.16 Mbit/s

95th percentile per-packet one-way delay: 59.094 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-10-11 01:57:16

End at: 2017-10-11 01:57:46

Below is generated by plot.py at 2017-10-11 03:16:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.20 Mbit/s

95th percentile per-packet one-way delay: 58.967 ms

Loss rate: 0.03%

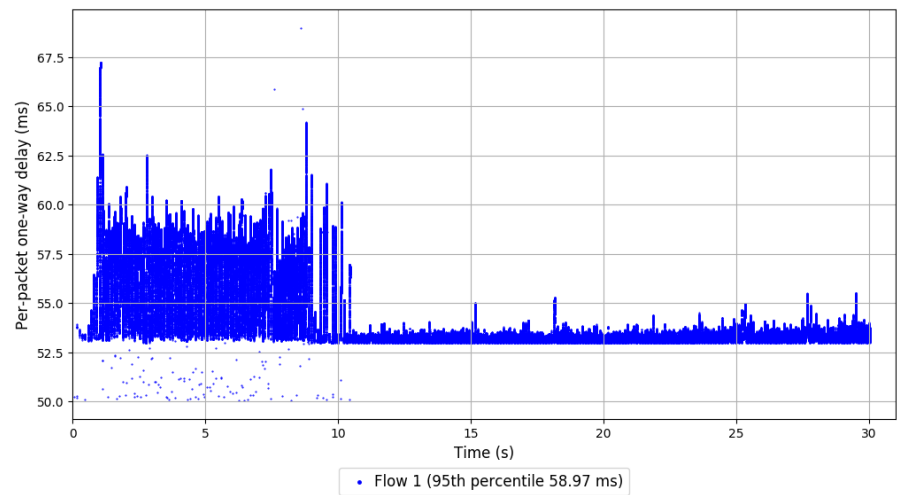
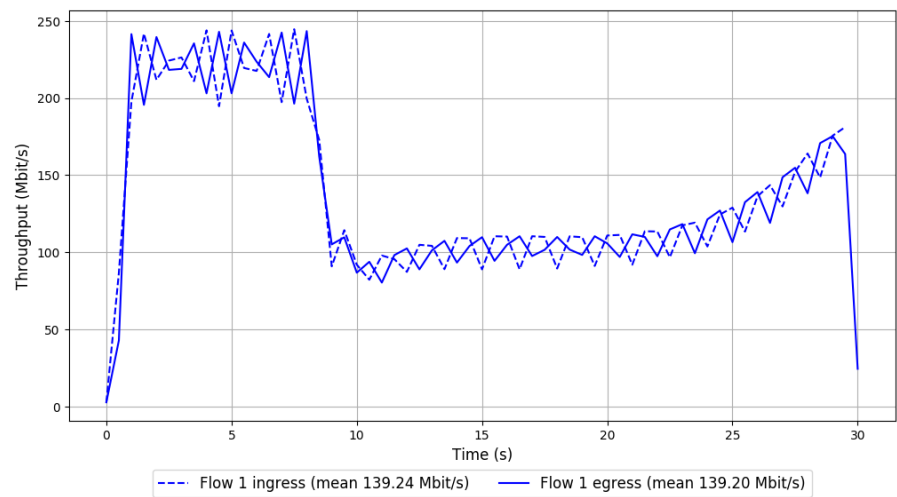
-- Flow 1:

Average throughput: 139.20 Mbit/s

95th percentile per-packet one-way delay: 58.967 ms

Loss rate: 0.03%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-10-11 02:07:31

End at: 2017-10-11 02:08:01

Below is generated by plot.py at 2017-10-11 03:17:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.76 Mbit/s

95th percentile per-packet one-way delay: 54.442 ms

Loss rate: 0.00%

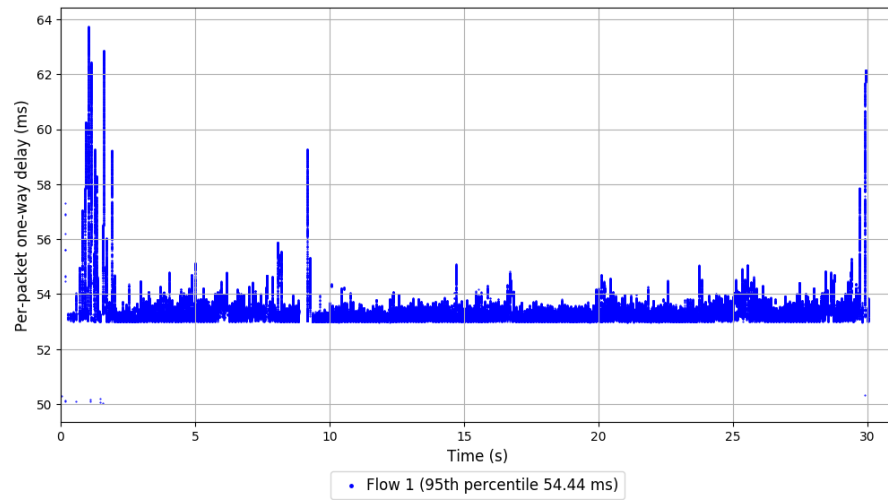
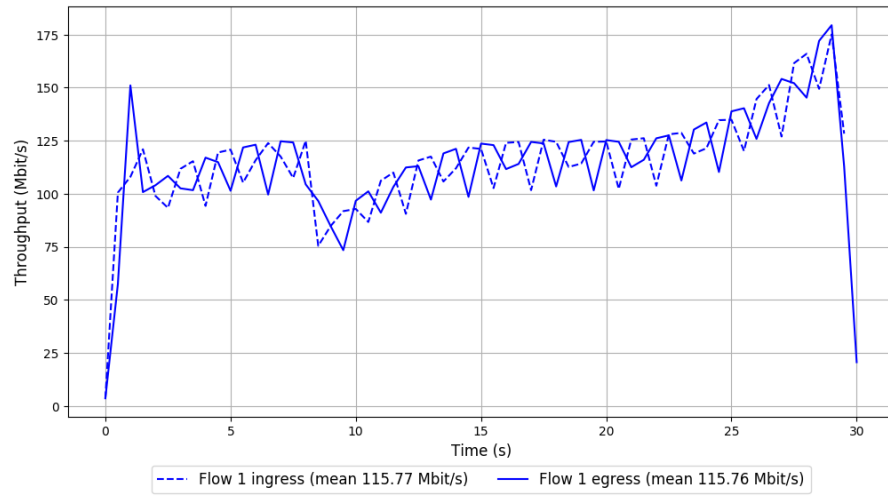
-- Flow 1:

Average throughput: 115.76 Mbit/s

95th percentile per-packet one-way delay: 54.442 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

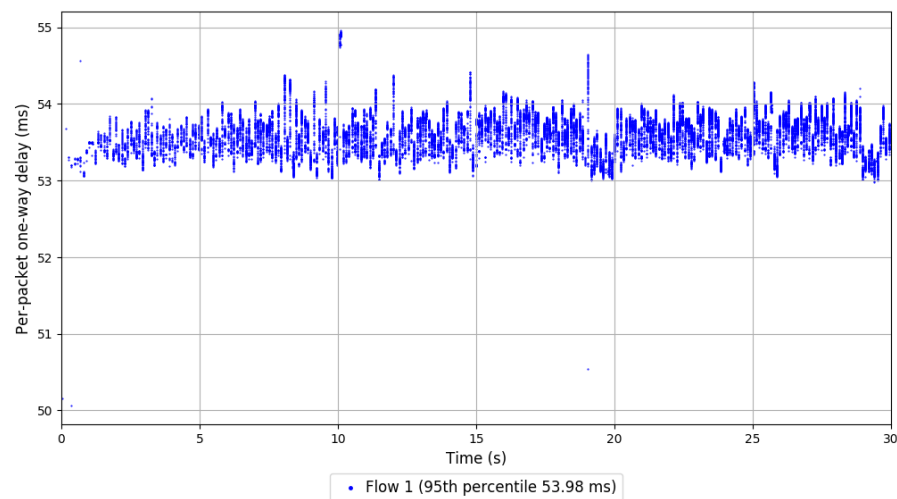
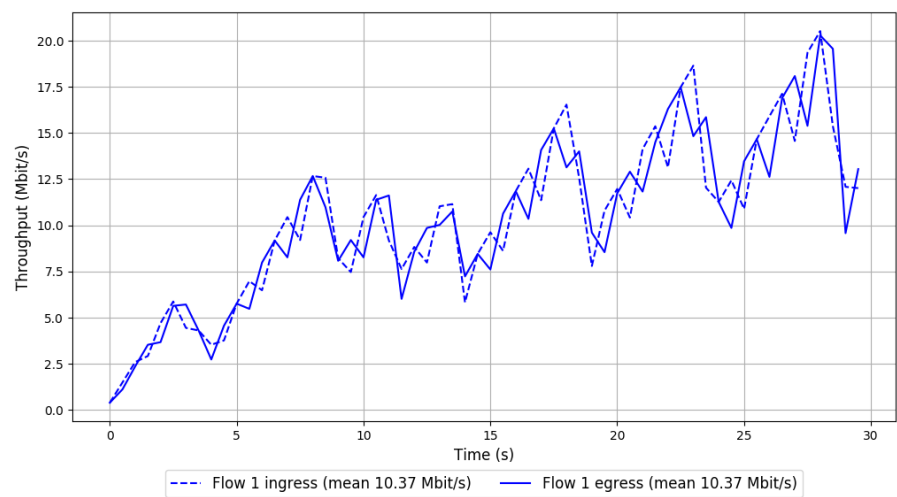


```
Run 1: Statistics of LEDBAT

Start at: 2017-10-11 00:39:46
End at: 2017-10-11 00:40:16

# Below is generated by plot.py at 2017-10-11 03:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.37 Mbit/s
95th percentile per-packet one-way delay: 53.981 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 10.37 Mbit/s
95th percentile per-packet one-way delay: 53.981 ms
Loss rate: 0.26%
```


Run 1: Report of LEDBAT — Data Link

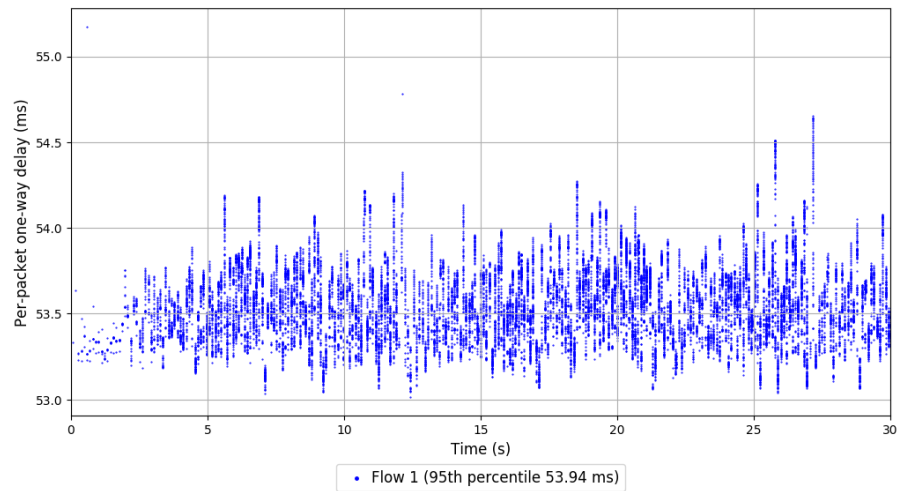
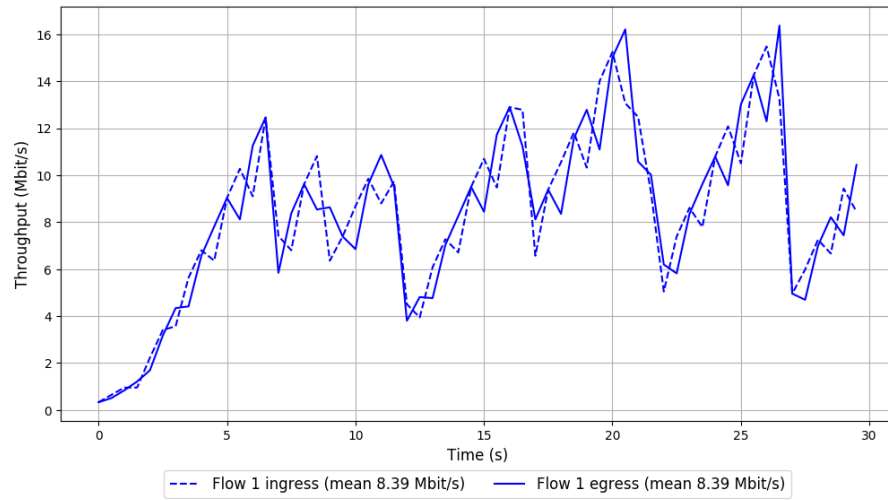


```
Run 2: Statistics of LEDBAT

Start at: 2017-10-11 00:49:58
End at: 2017-10-11 00:50:28

# Below is generated by plot.py at 2017-10-11 03:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 53.935 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 53.935 ms
Loss rate: 0.02%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-10-11 01:00:44

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

Below is generated by plot.py at 2017-10-11 03:17:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 54.057 ms

Loss rate: 0.00%

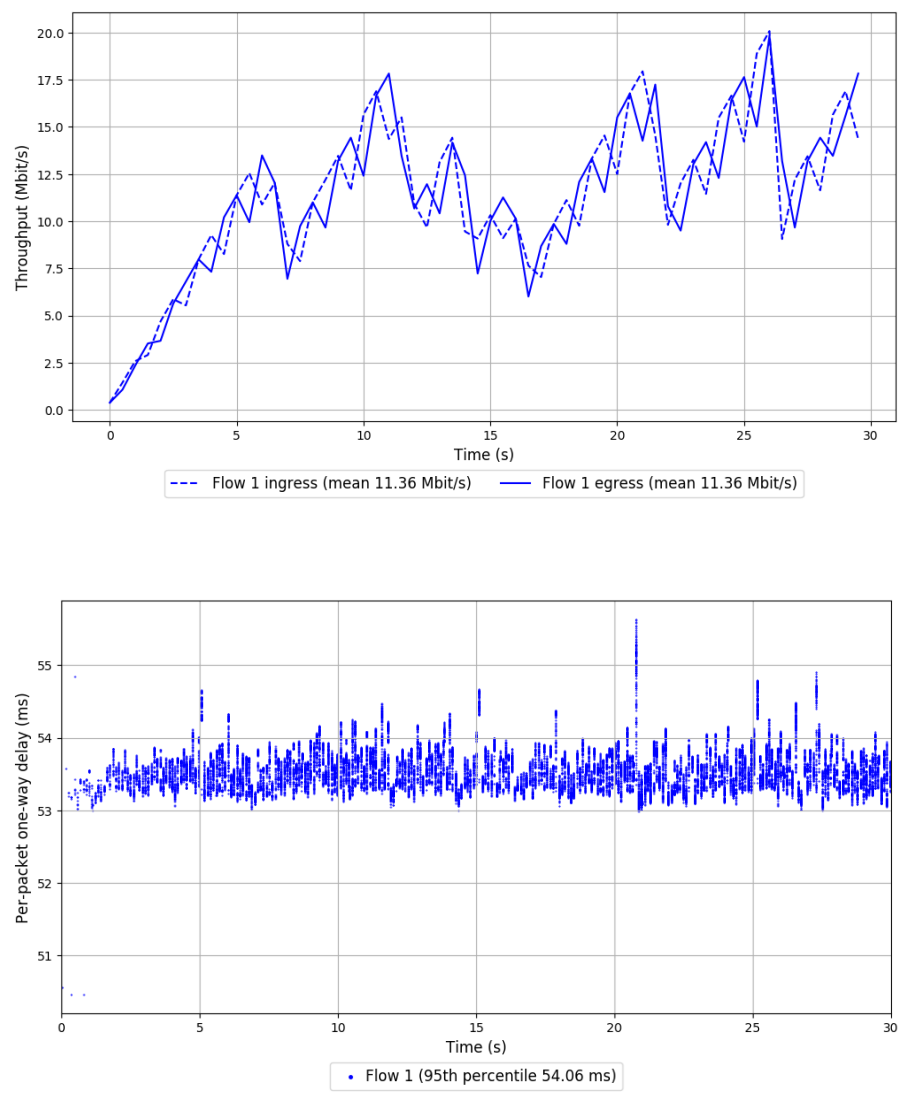
-- Flow 1:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 54.057 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

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

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

Below is generated by plot.py at 2017-10-11 03:17:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.30 Mbit/s

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

Loss rate: 0.02%

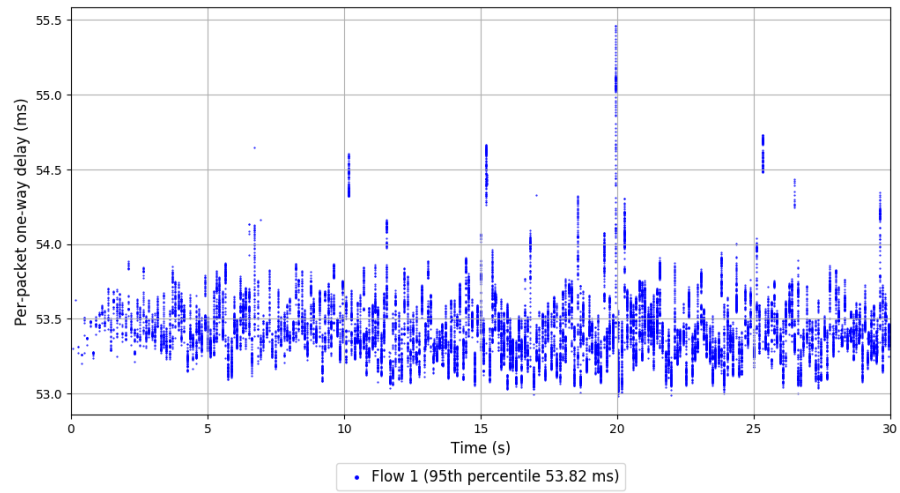
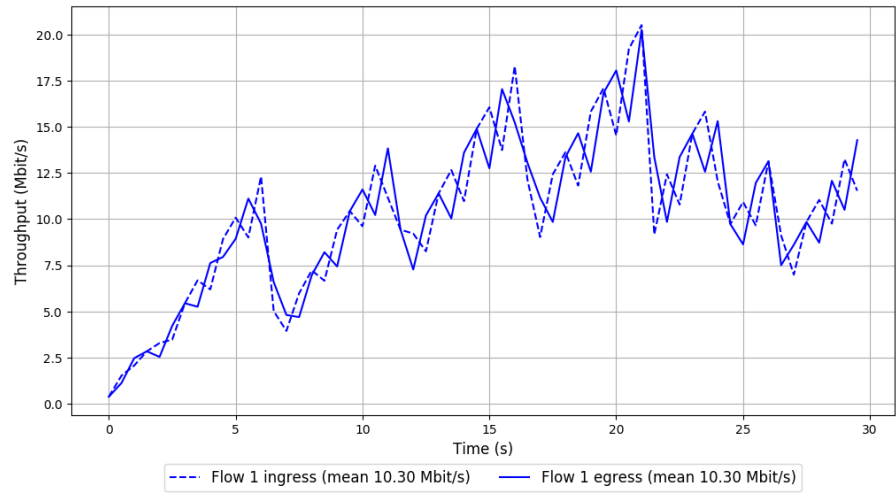
-- Flow 1:

Average throughput: 10.30 Mbit/s

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

Loss rate: 0.02%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-10-11 01:22:19

End at: 2017-10-11 01:22:49

Below is generated by plot.py at 2017-10-11 03:17:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 53.955 ms

Loss rate: 0.00%

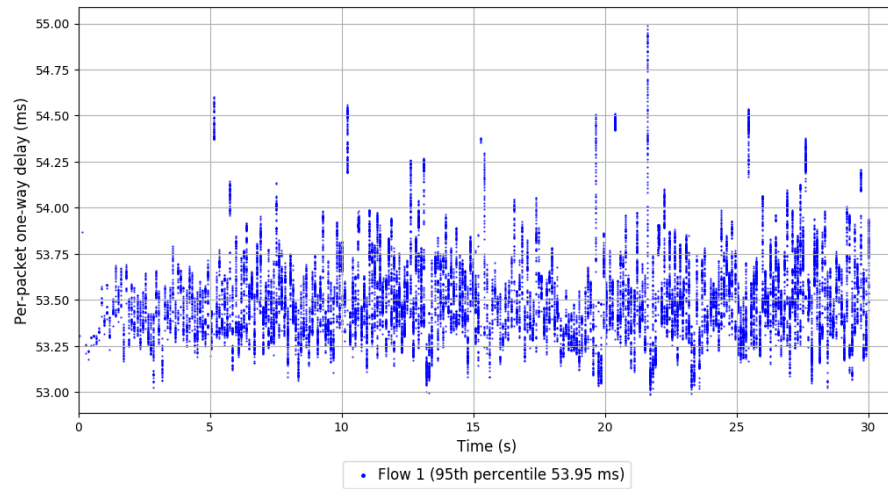
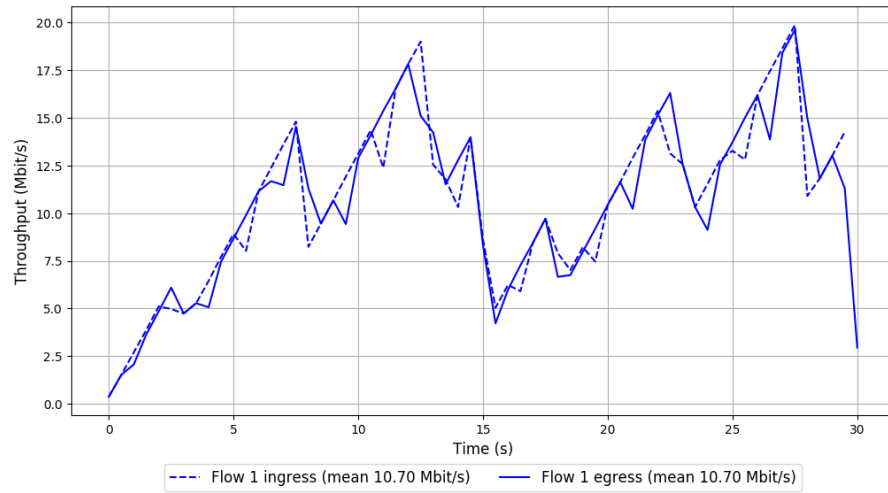
-- Flow 1:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 53.955 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-10-11 01:32:57

End at: 2017-10-11 01:33:27

Below is generated by plot.py at 2017-10-11 03:17:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 53.852 ms

Loss rate: 0.00%

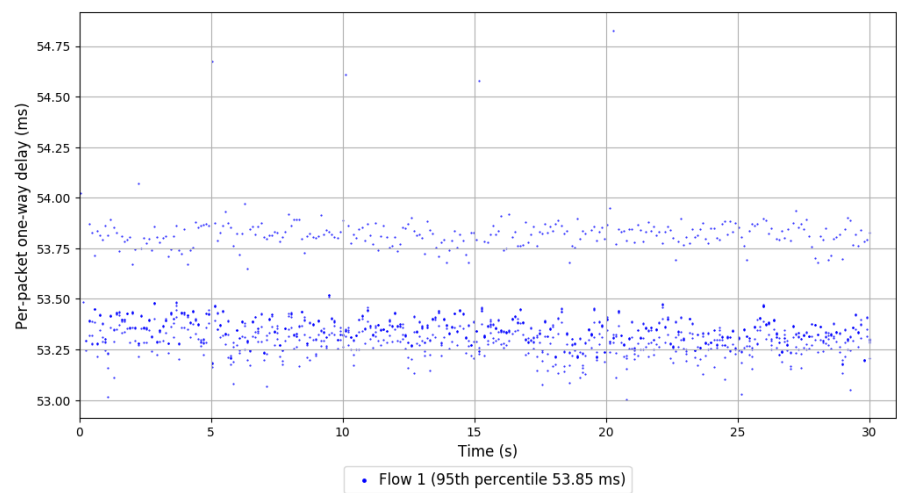
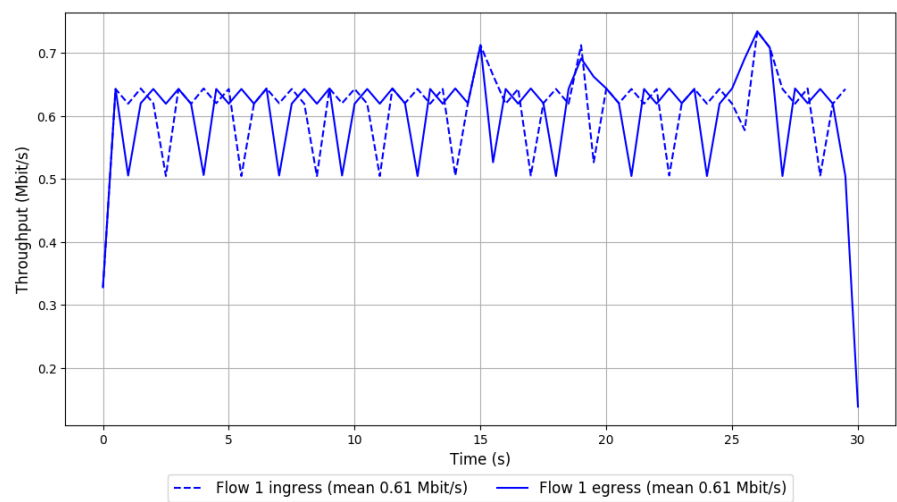
-- Flow 1:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 53.852 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-10-11 01:42:59

End at: 2017-10-11 01:43:29

Below is generated by plot.py at 2017-10-11 03:17:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.62 Mbit/s

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

Loss rate: 0.00%

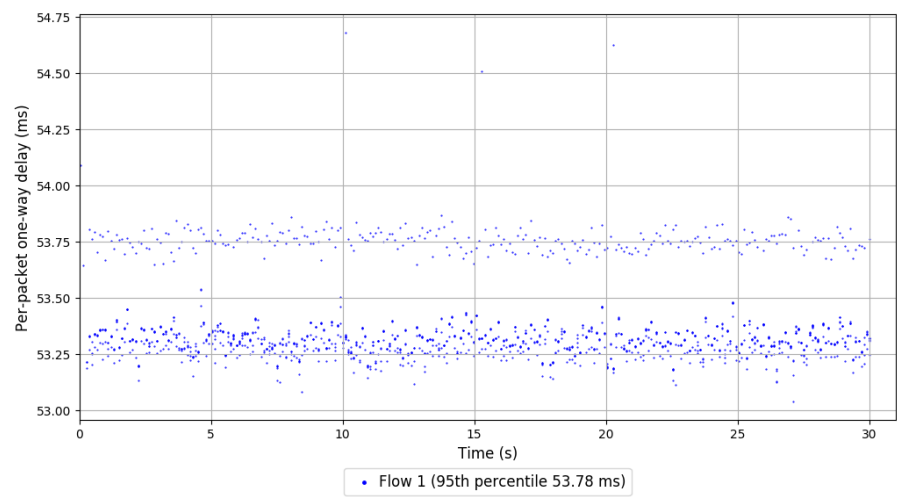
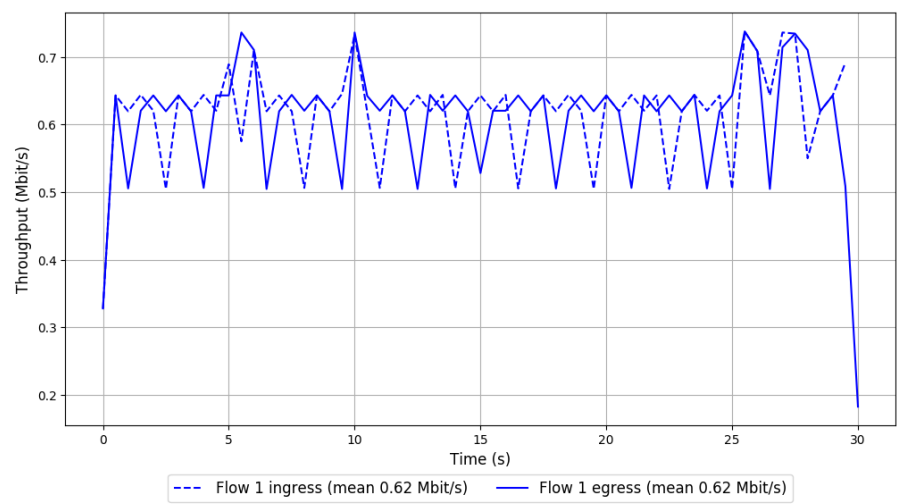
-- Flow 1:

Average throughput: 0.62 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-10-11 01:53:55

End at: 2017-10-11 01:54:25

Below is generated by plot.py at 2017-10-11 03:17:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.23 Mbit/s

95th percentile per-packet one-way delay: 54.046 ms

Loss rate: 0.00%

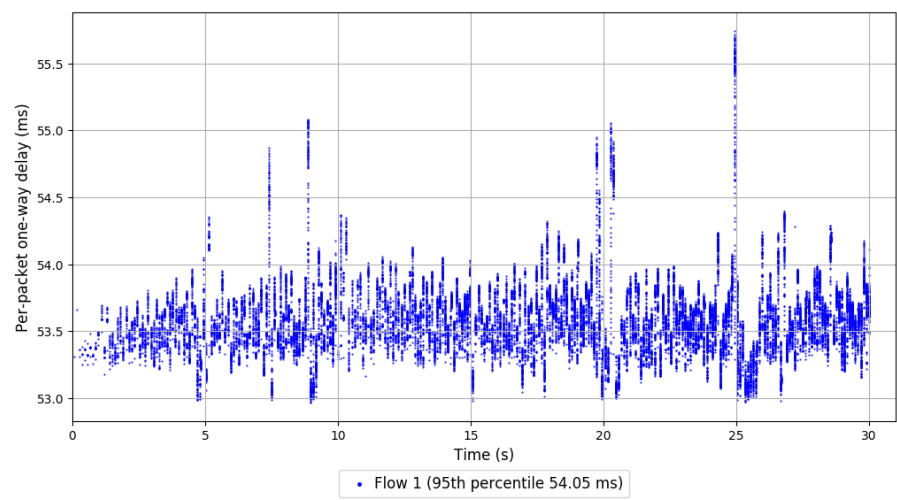
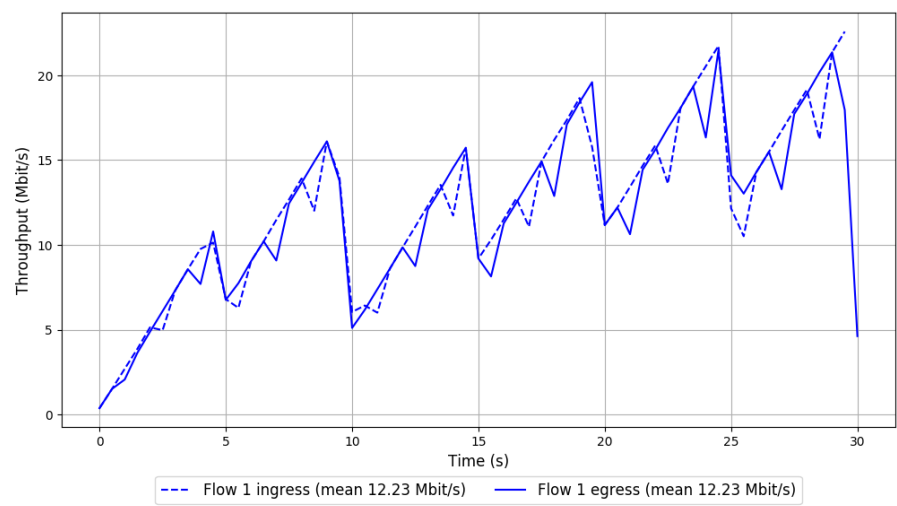
-- Flow 1:

Average throughput: 12.23 Mbit/s

95th percentile per-packet one-way delay: 54.046 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-10-11 02:04:08

End at: 2017-10-11 02:04:38

Below is generated by plot.py at 2017-10-11 03:17:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.28 Mbit/s

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

Loss rate: 0.00%

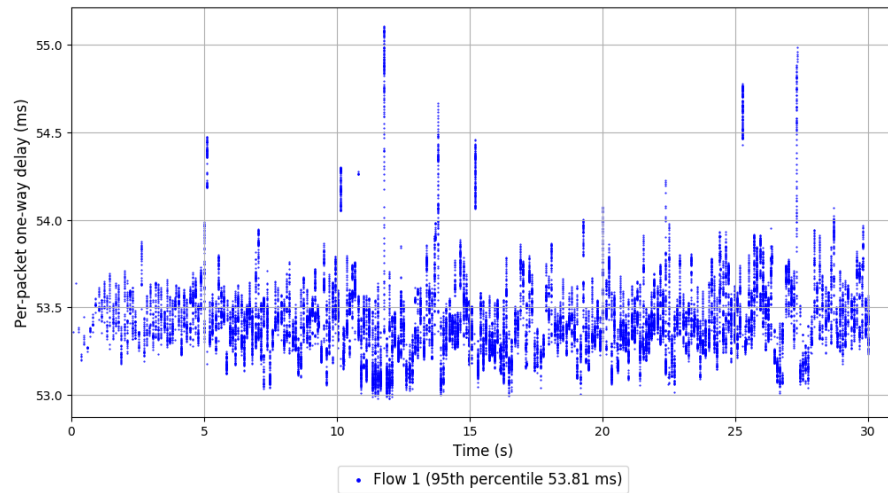
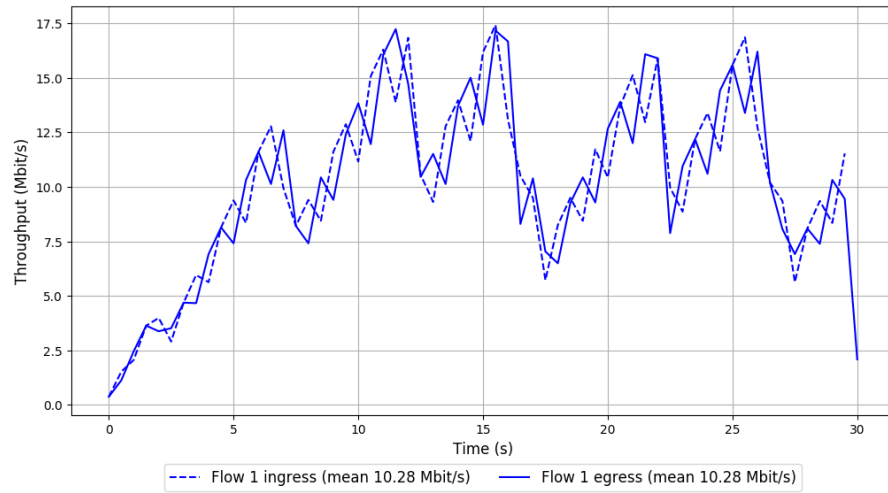
-- Flow 1:

Average throughput: 10.28 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-10-11 02:14:51

End at: 2017-10-11 02:15:21

Below is generated by plot.py at 2017-10-11 03:17:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.49 Mbit/s

95th percentile per-packet one-way delay: 54.016 ms

Loss rate: 0.00%

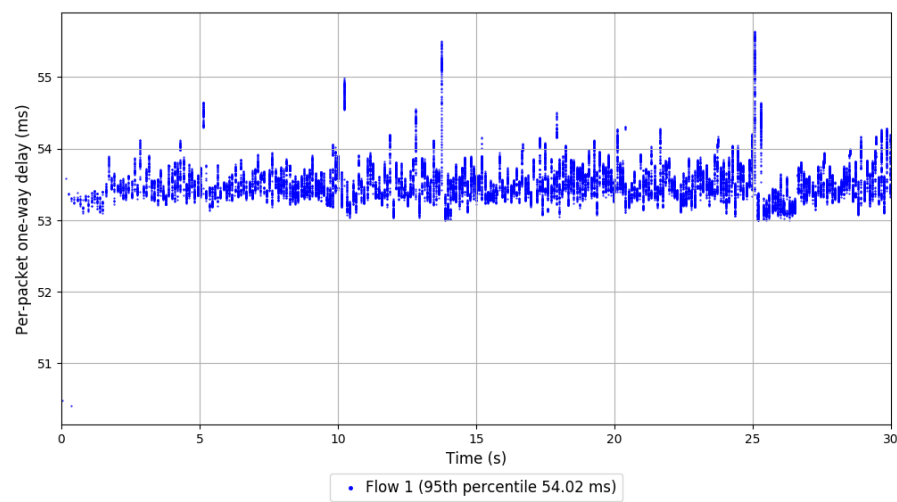
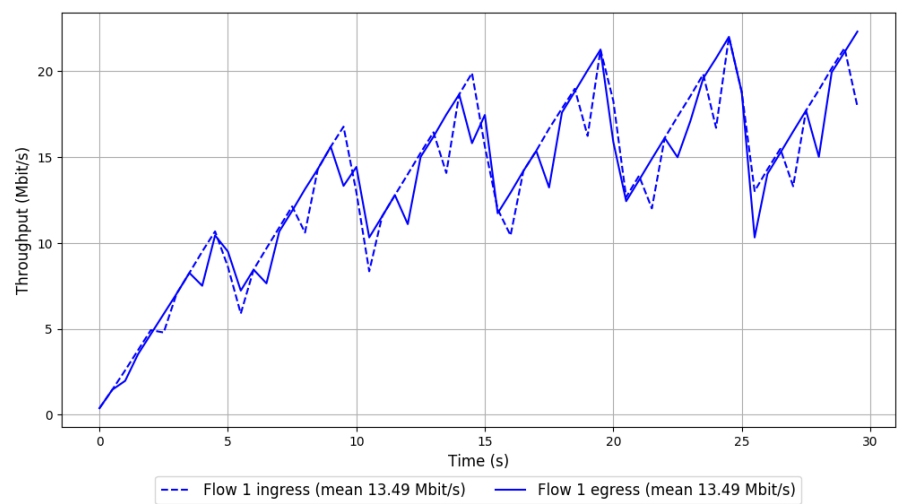
-- Flow 1:

Average throughput: 13.49 Mbit/s

95th percentile per-packet one-way delay: 54.016 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

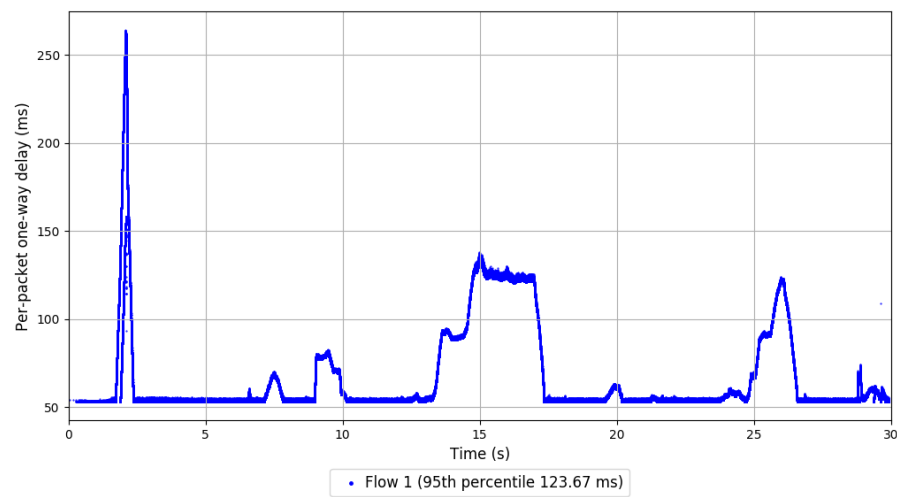
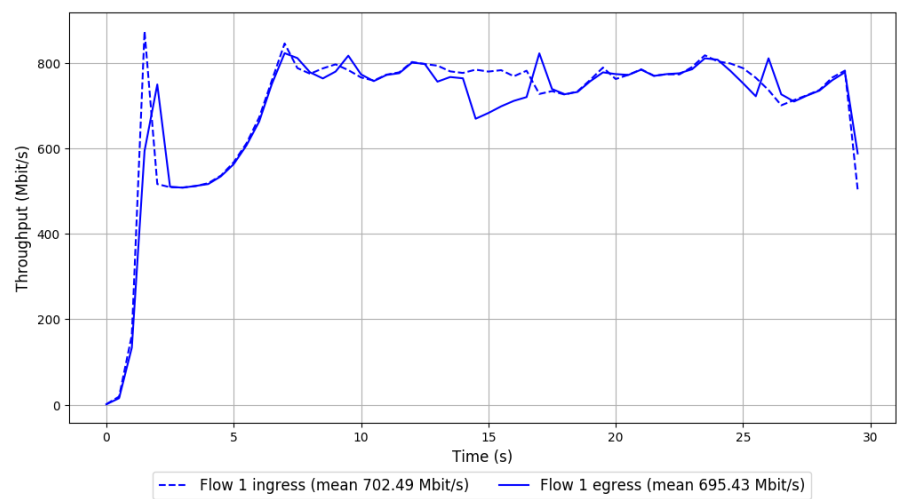


```
Run 1: Statistics of PCC

Start at: 2017-10-11 00:37:58
End at: 2017-10-11 00:38:28

# Below is generated by plot.py at 2017-10-11 03:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 695.43 Mbit/s
95th percentile per-packet one-way delay: 123.671 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 695.43 Mbit/s
95th percentile per-packet one-way delay: 123.671 ms
Loss rate: 1.02%
```

Run 1: Report of PCC — Data Link

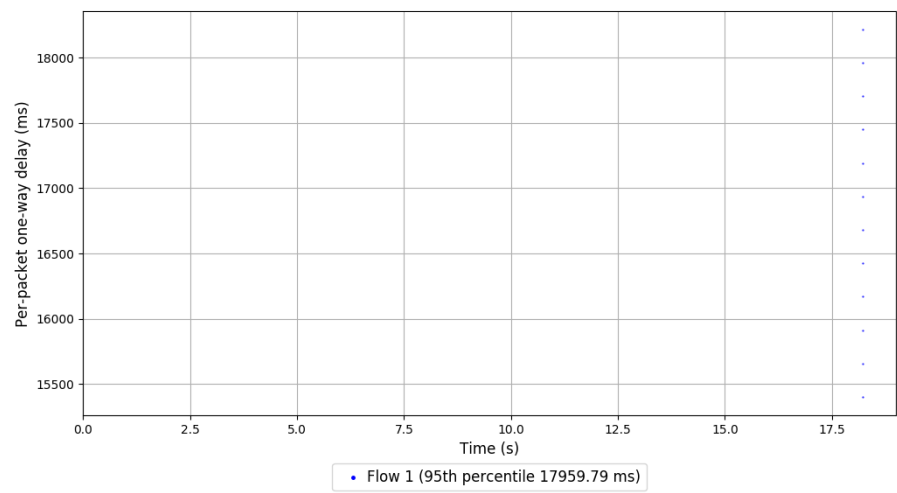
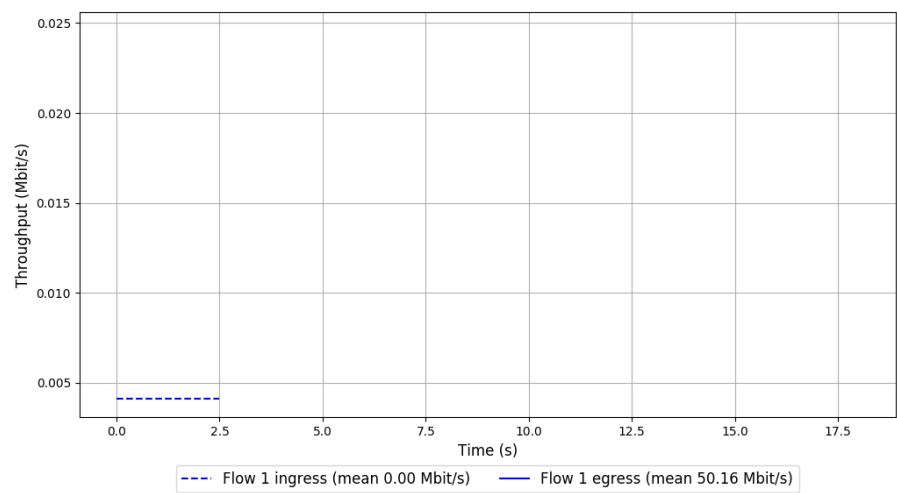


Run 2: Statistics of PCC

Start at: 2017-10-11 00:48:36

End at: 2017-10-11 00:49:06

Run 2: Report of PCC — Data Link

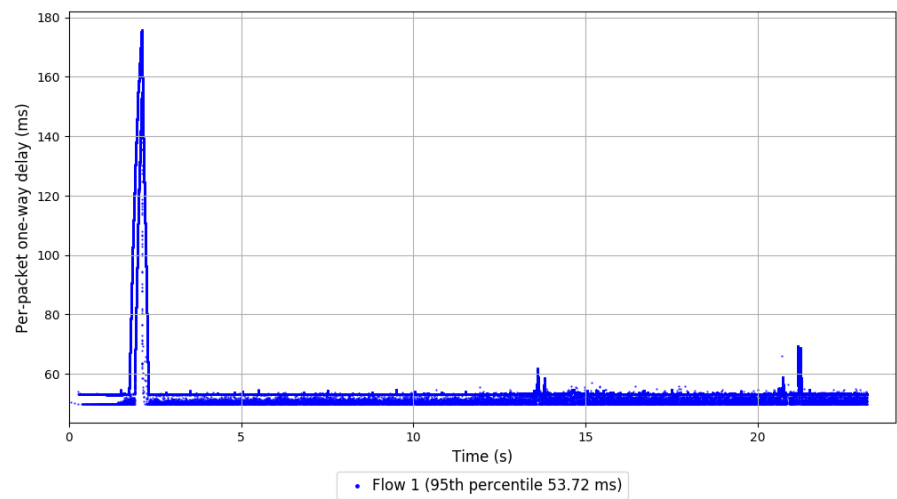
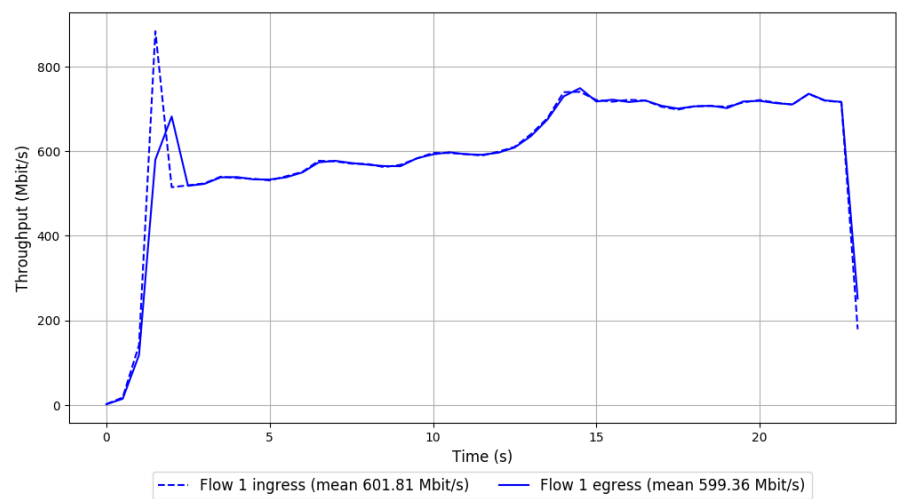


Run 3: Statistics of PCC

Start at: 2017-10-11 00:59:05

End at: 2017-10-11 00:59:35

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-10-11 01:09:33

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

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 600.46 Mbit/s

95th percentile per-packet one-way delay: 63.024 ms

Loss rate: 0.29%

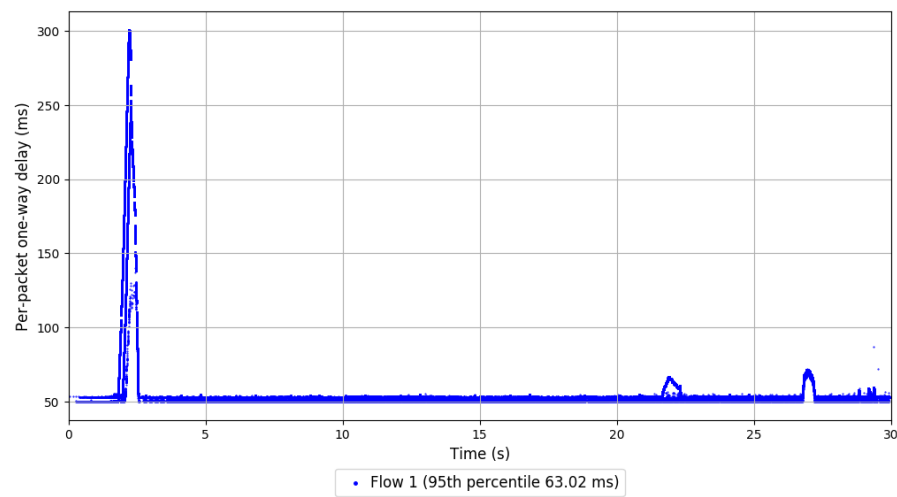
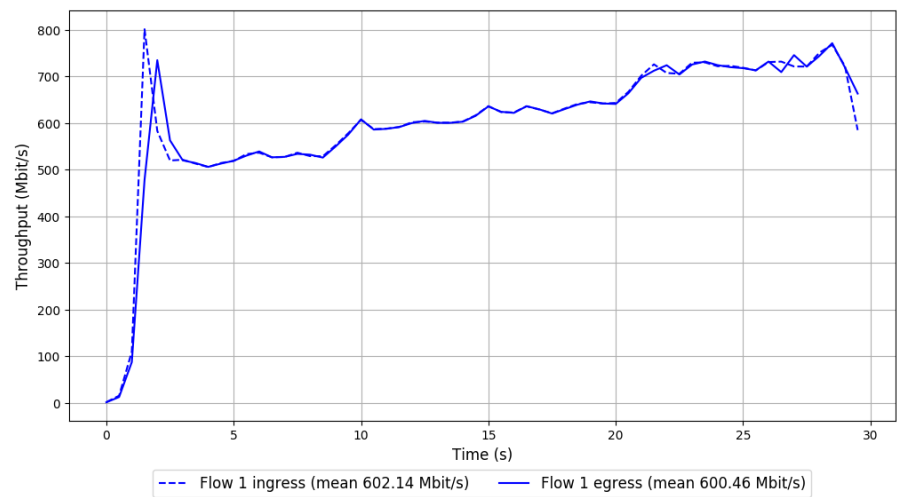
-- Flow 1:

Average throughput: 600.46 Mbit/s

95th percentile per-packet one-way delay: 63.024 ms

Loss rate: 0.29%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-10-11 01:20:34

End at: 2017-10-11 01:21:04

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 684.96 Mbit/s

95th percentile per-packet one-way delay: 185.877 ms

Loss rate: 3.23%

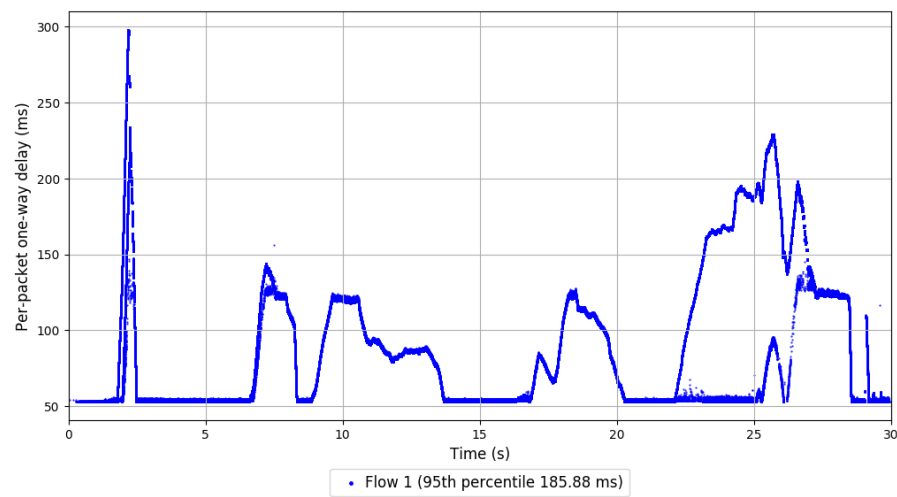
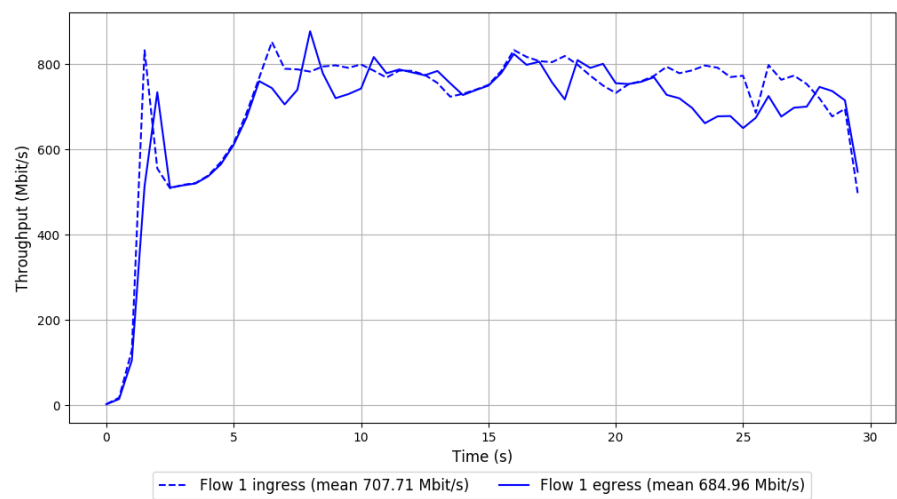
-- Flow 1:

Average throughput: 684.96 Mbit/s

95th percentile per-packet one-way delay: 185.877 ms

Loss rate: 3.23%

Run 5: Report of PCC — Data Link

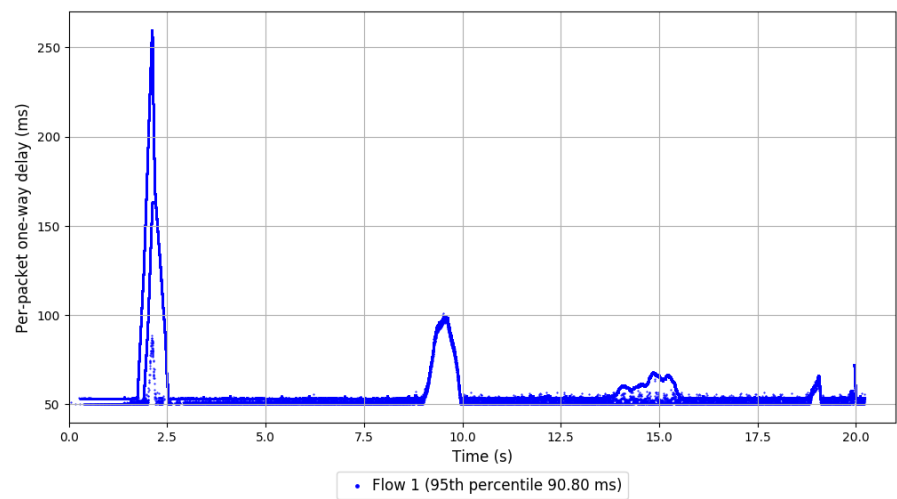
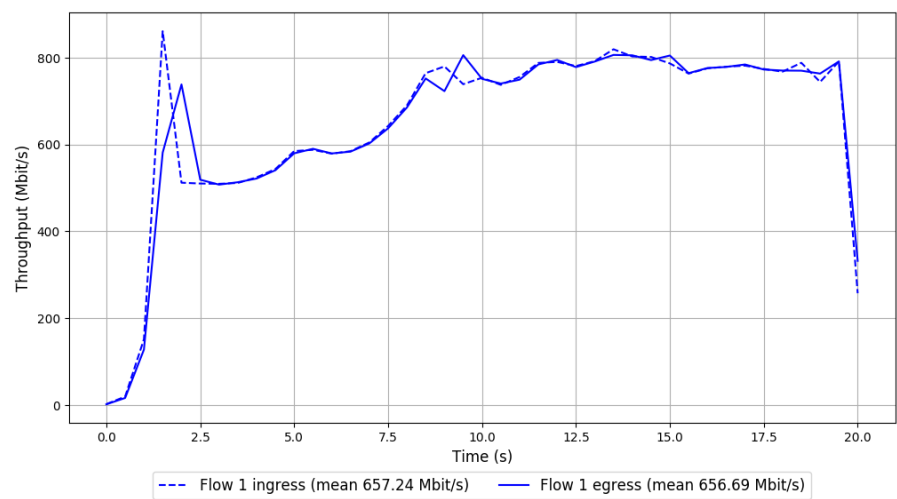


Run 6: Statistics of PCC

Start at: 2017-10-11 01:31:20

End at: 2017-10-11 01:31:50

Run 6: Report of PCC — Data Link

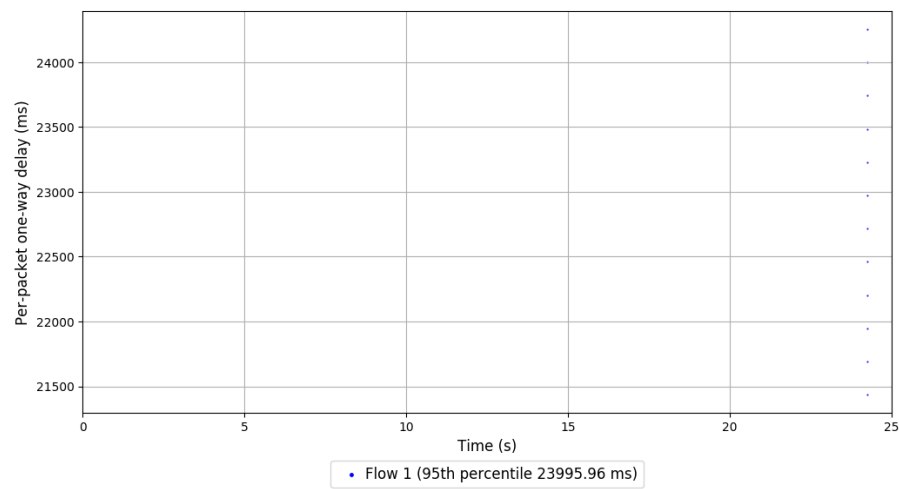
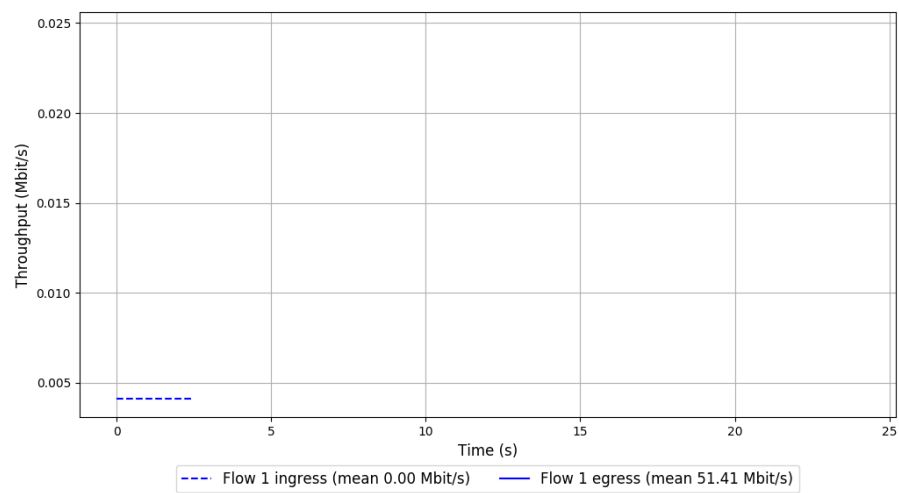


Run 7: Statistics of PCC

Start at: 2017-10-11 01:41:39

End at: 2017-10-11 01:42:09

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

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

End at: 2017-10-11 01:52:40

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 645.78 Mbit/s

95th percentile per-packet one-way delay: 123.656 ms

Loss rate: 1.42%

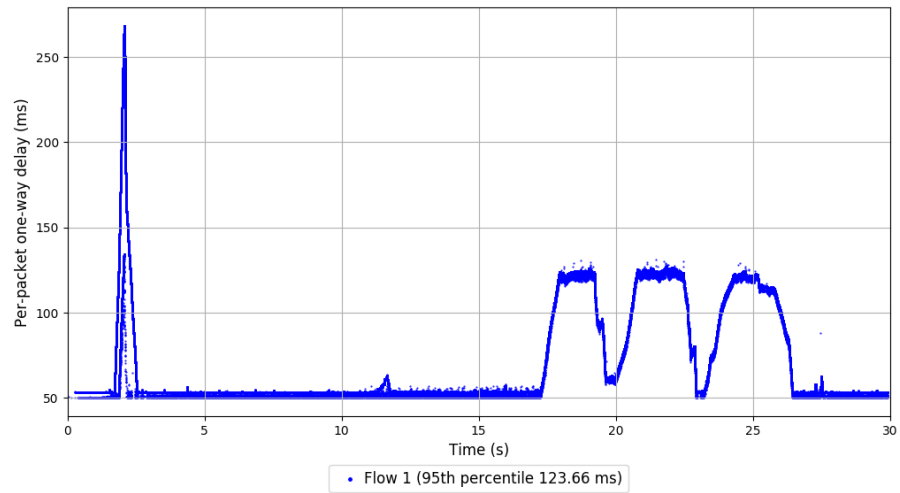
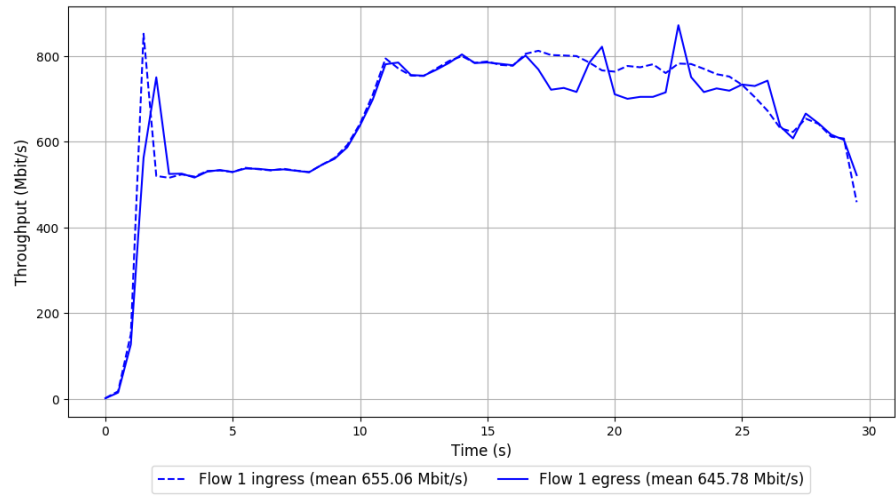
-- Flow 1:

Average throughput: 645.78 Mbit/s

95th percentile per-packet one-way delay: 123.656 ms

Loss rate: 1.42%

Run 8: Report of PCC — Data Link

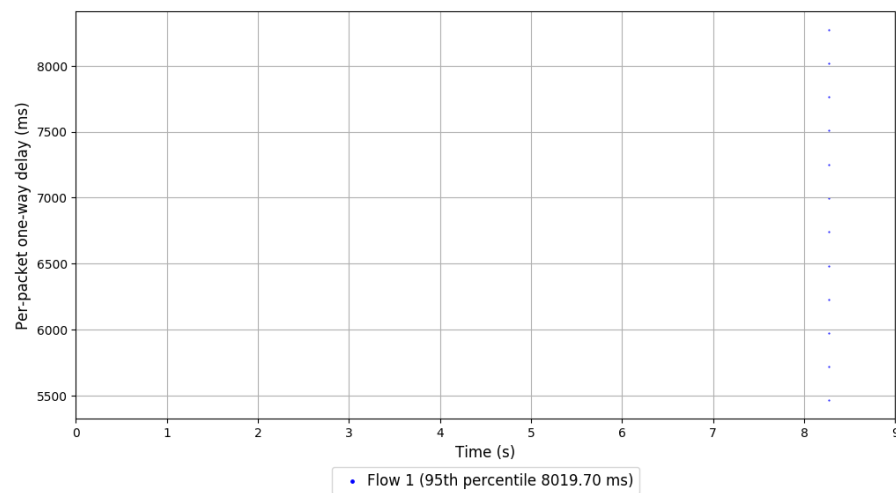
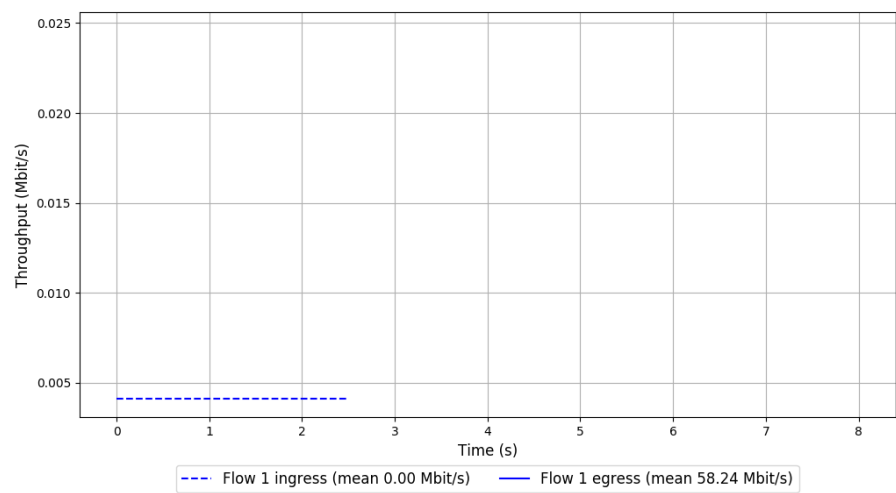


Run 9: Statistics of PCC

Start at: 2017-10-11 02:02:48

End at: 2017-10-11 02:03:18

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

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

End at: 2017-10-11 02:13:43

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 604.43 Mbit/s

95th percentile per-packet one-way delay: 150.164 ms

Loss rate: 2.32%

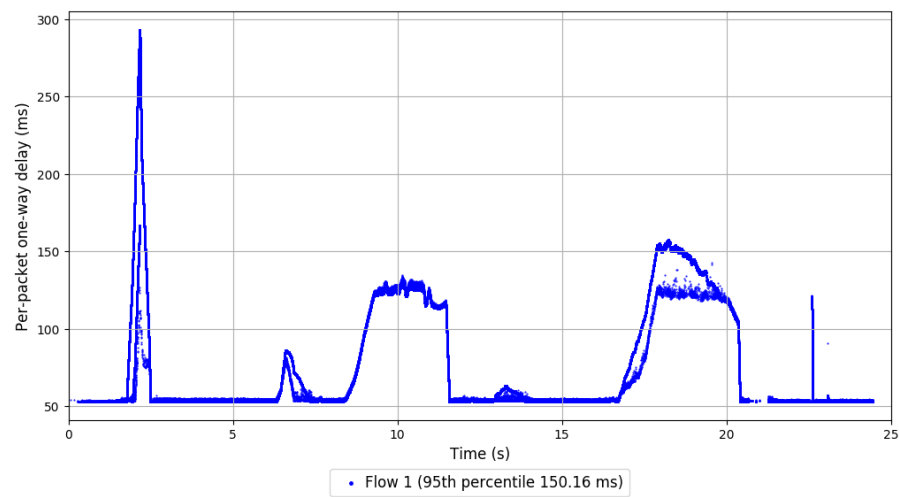
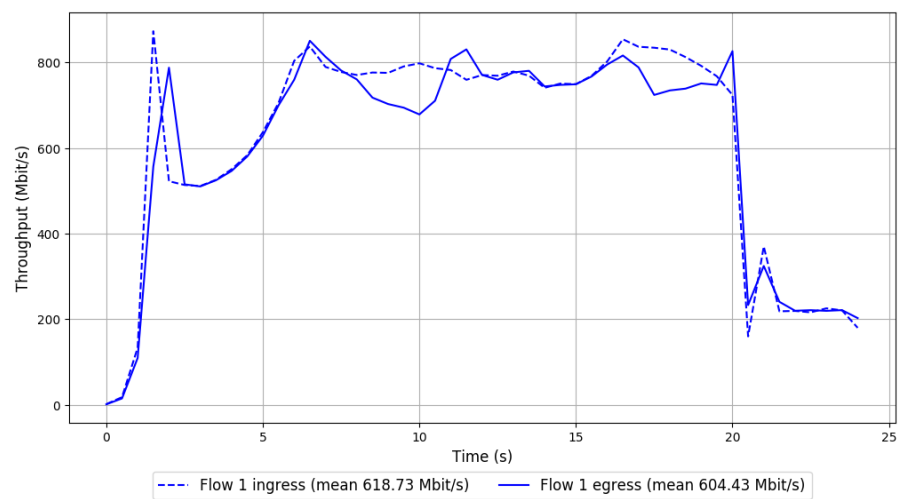
-- Flow 1:

Average throughput: 604.43 Mbit/s

95th percentile per-packet one-way delay: 150.164 ms

Loss rate: 2.32%

Run 10: Report of PCC — Data Link

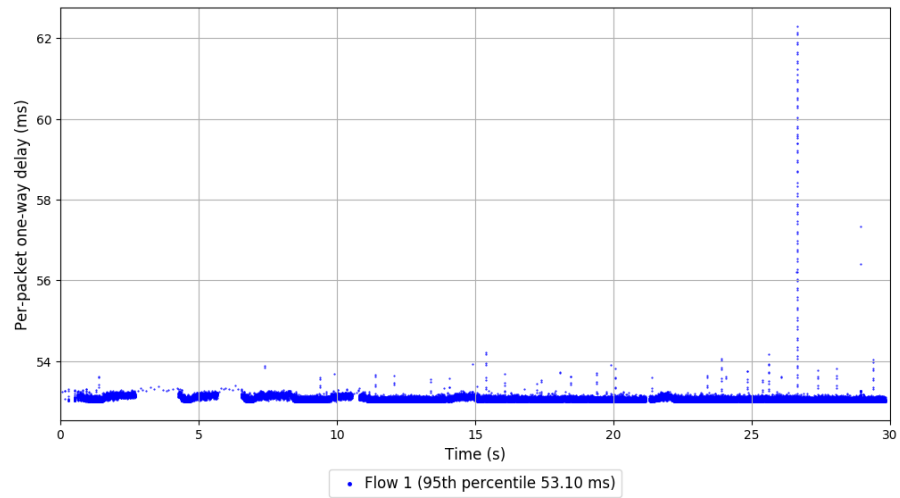
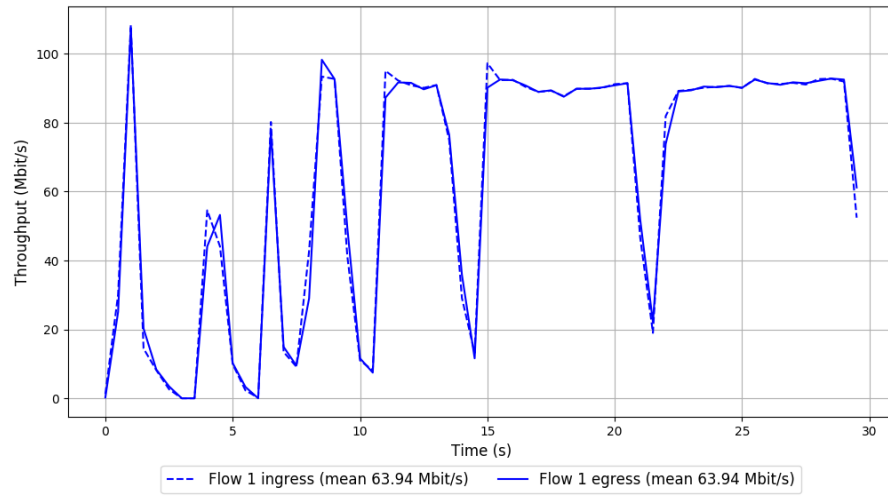


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-10-11 00:40:23
End at: 2017-10-11 00:40:53

# Below is generated by plot.py at 2017-10-11 03:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.94 Mbit/s
95th percentile per-packet one-way delay: 53.104 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 63.94 Mbit/s
95th percentile per-packet one-way delay: 53.104 ms
Loss rate: 0.01%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

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

End at: 2017-10-11 00:51:06

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.27 Mbit/s

95th percentile per-packet one-way delay: 53.782 ms

Loss rate: 0.01%

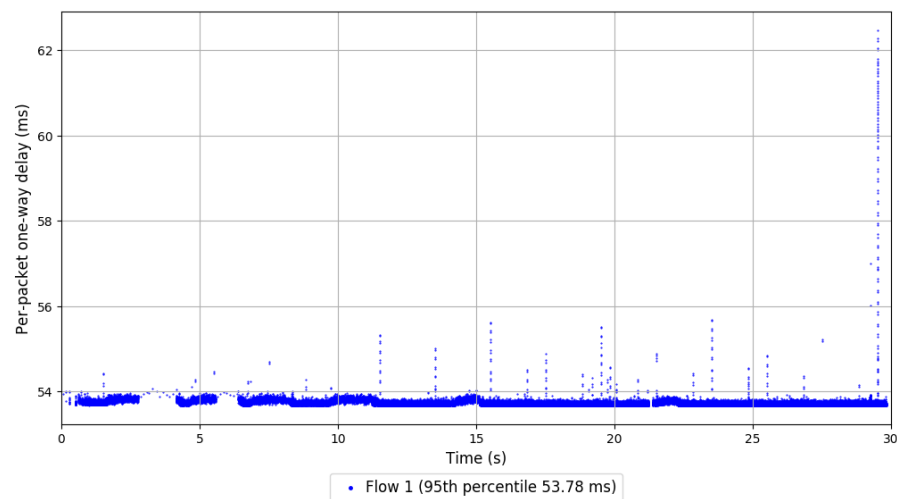
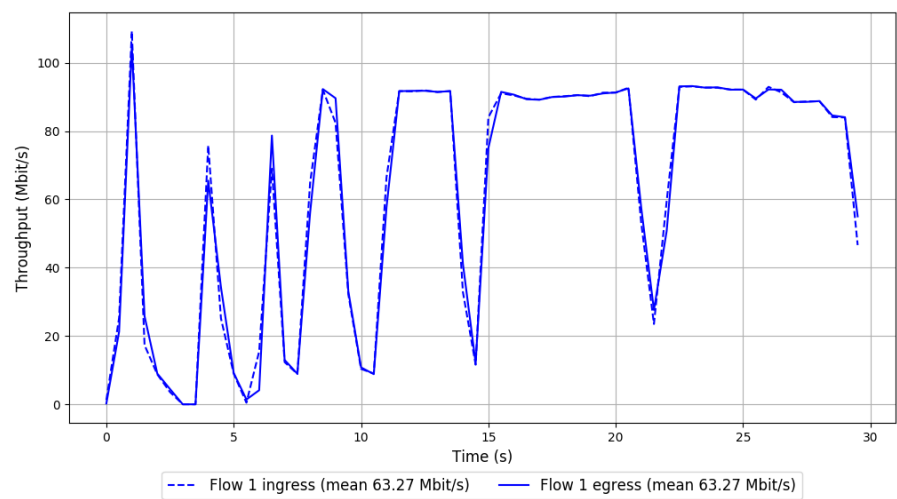
-- Flow 1:

Average throughput: 63.27 Mbit/s

95th percentile per-packet one-way delay: 53.782 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

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

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

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 53.131 ms

Loss rate: 0.01%

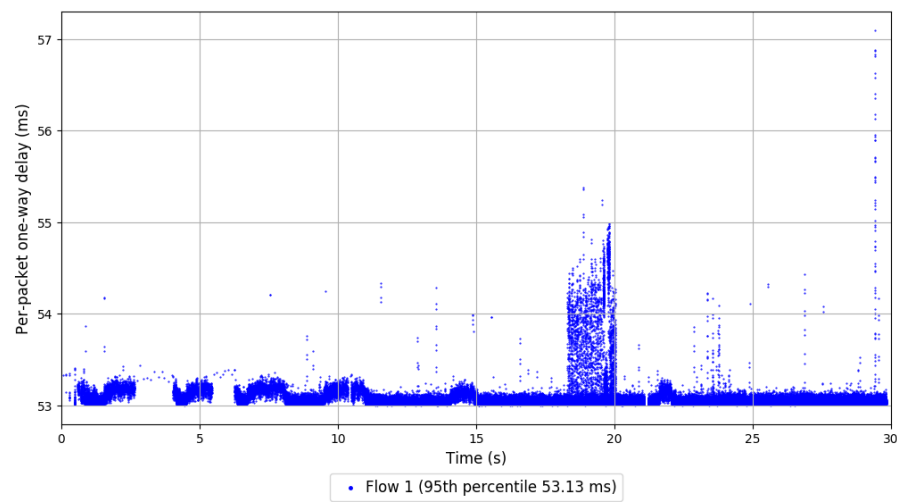
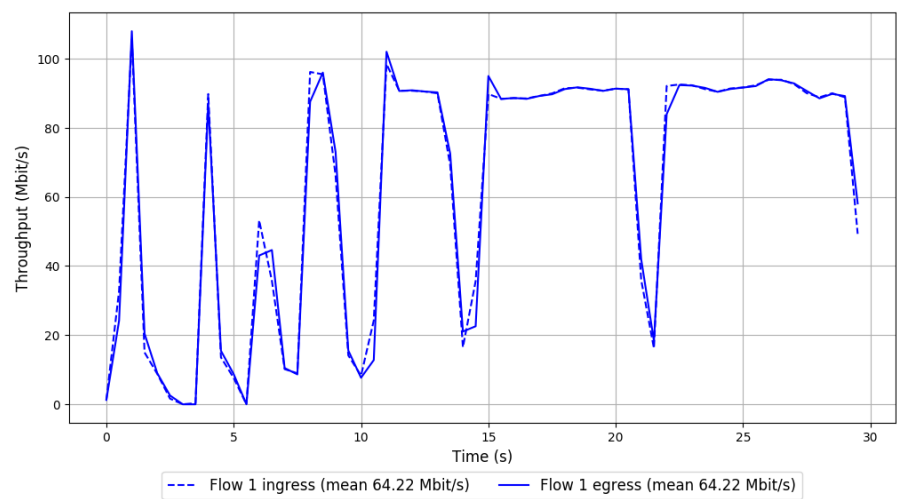
-- Flow 1:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 53.131 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

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

End at: 2017-10-11 01:12:23

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.83 Mbit/s

95th percentile per-packet one-way delay: 53.718 ms

Loss rate: 0.01%

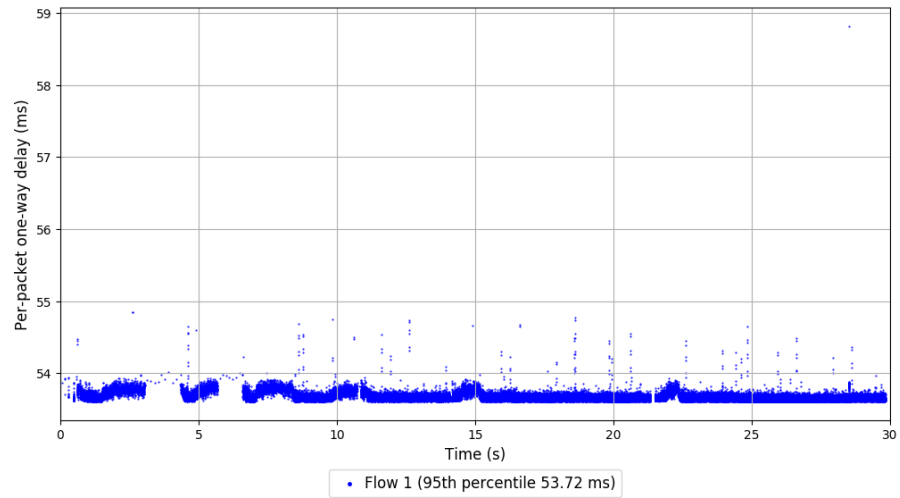
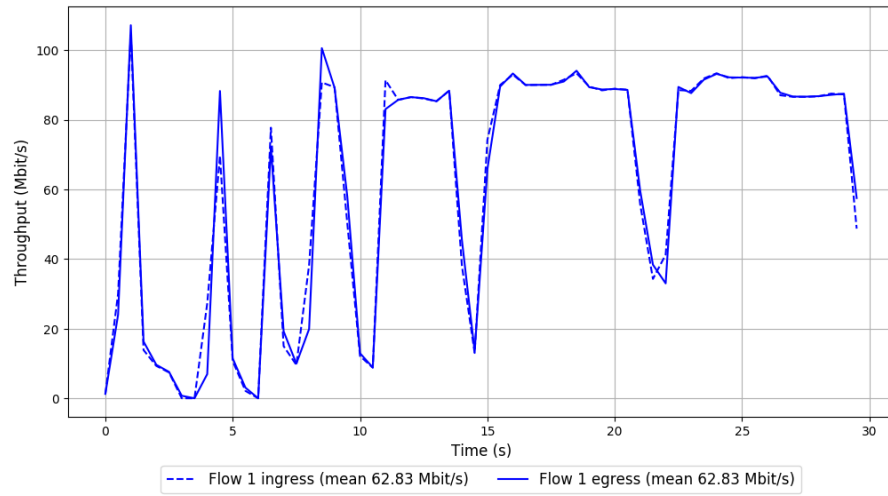
-- Flow 1:

Average throughput: 62.83 Mbit/s

95th percentile per-packet one-way delay: 53.718 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-10-11 01:22:57

End at: 2017-10-11 01:23:27

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.21 Mbit/s

95th percentile per-packet one-way delay: 53.052 ms

Loss rate: 0.01%

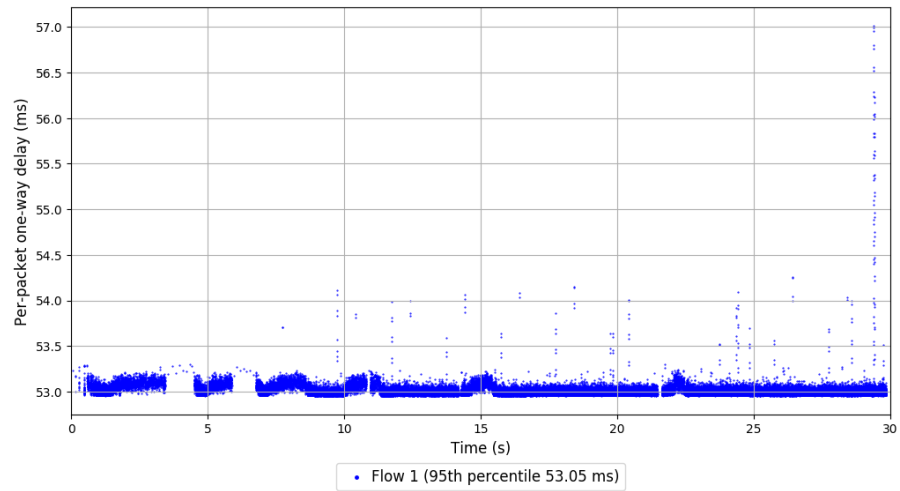
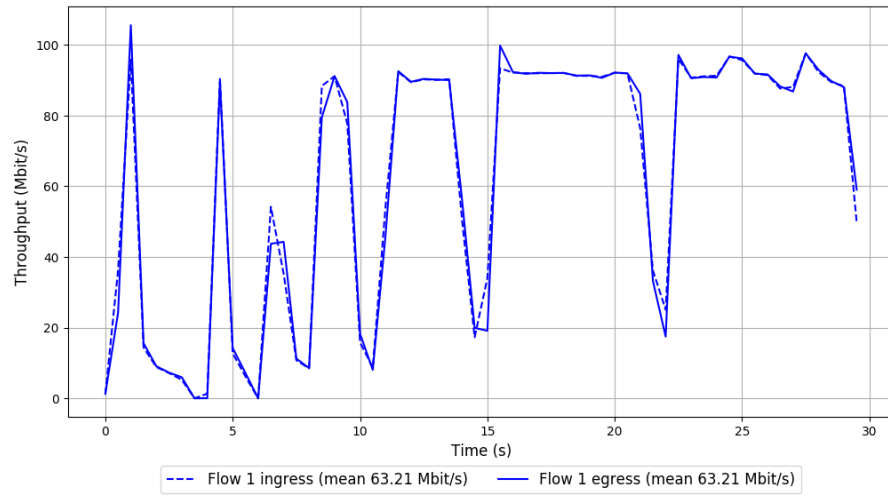
-- Flow 1:

Average throughput: 63.21 Mbit/s

95th percentile per-packet one-way delay: 53.052 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

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

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

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.20 Mbit/s

95th percentile per-packet one-way delay: 49.923 ms

Loss rate: 0.00%

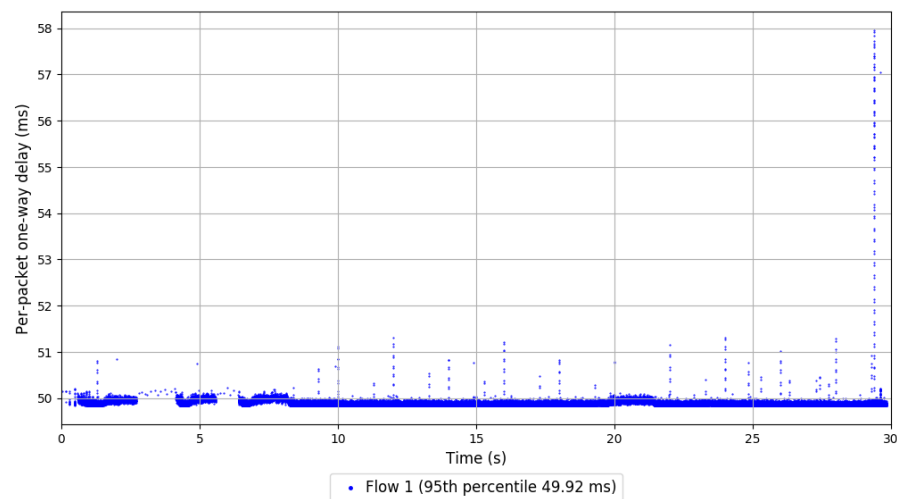
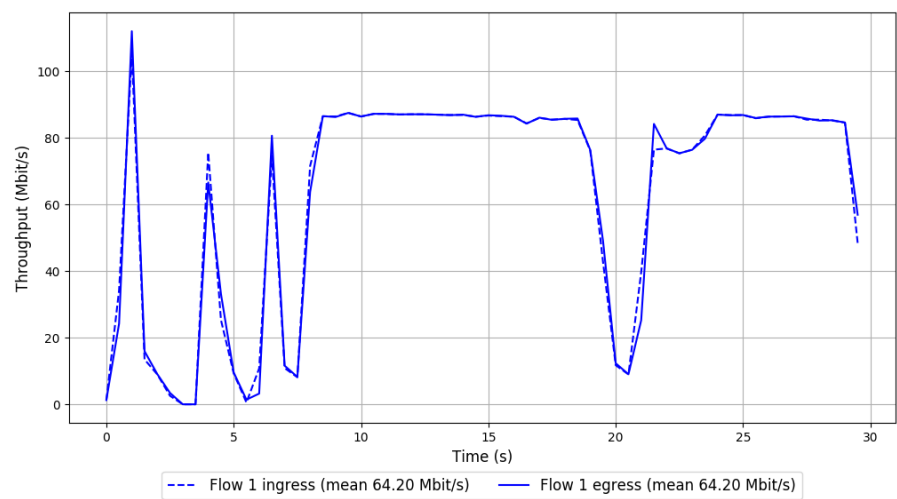
-- Flow 1:

Average throughput: 64.20 Mbit/s

95th percentile per-packet one-way delay: 49.923 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-10-11 01:43:36

End at: 2017-10-11 01:44:06

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.88 Mbit/s

95th percentile per-packet one-way delay: 53.070 ms

Loss rate: 0.01%

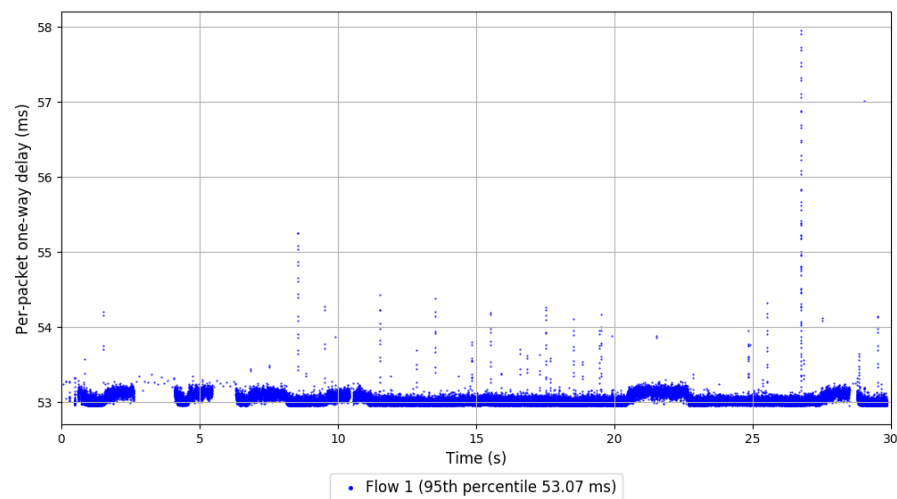
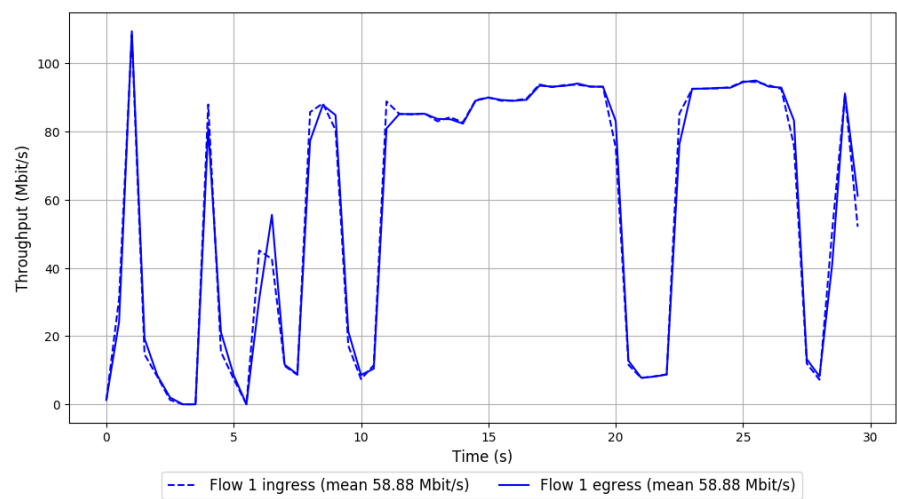
-- Flow 1:

Average throughput: 58.88 Mbit/s

95th percentile per-packet one-way delay: 53.070 ms

Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-10-11 01:54:33

End at: 2017-10-11 01:55:03

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.79 Mbit/s

95th percentile per-packet one-way delay: 49.944 ms

Loss rate: 0.00%

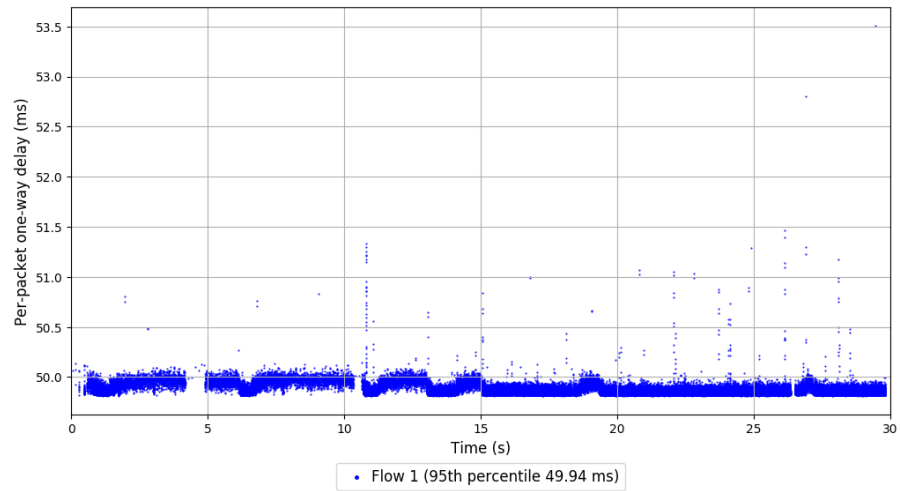
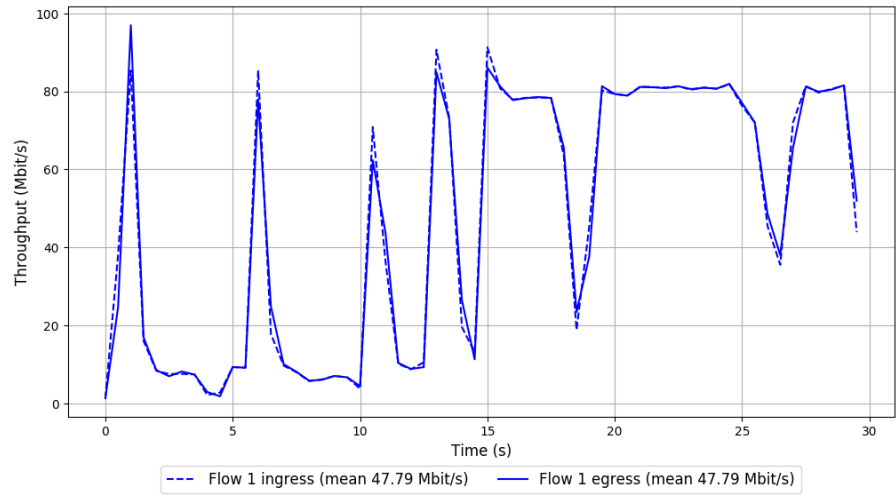
-- Flow 1:

Average throughput: 47.79 Mbit/s

95th percentile per-packet one-way delay: 49.944 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-10-11 02:04:46

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

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.87 Mbit/s

95th percentile per-packet one-way delay: 53.098 ms

Loss rate: 0.01%

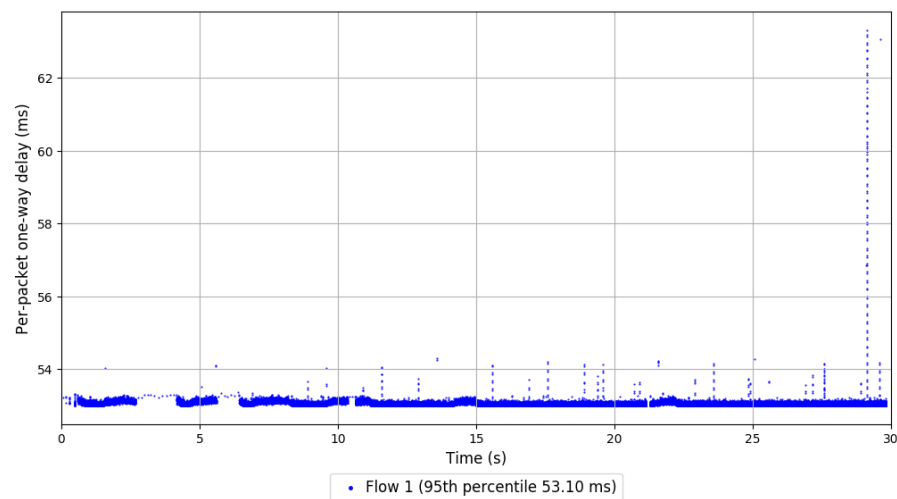
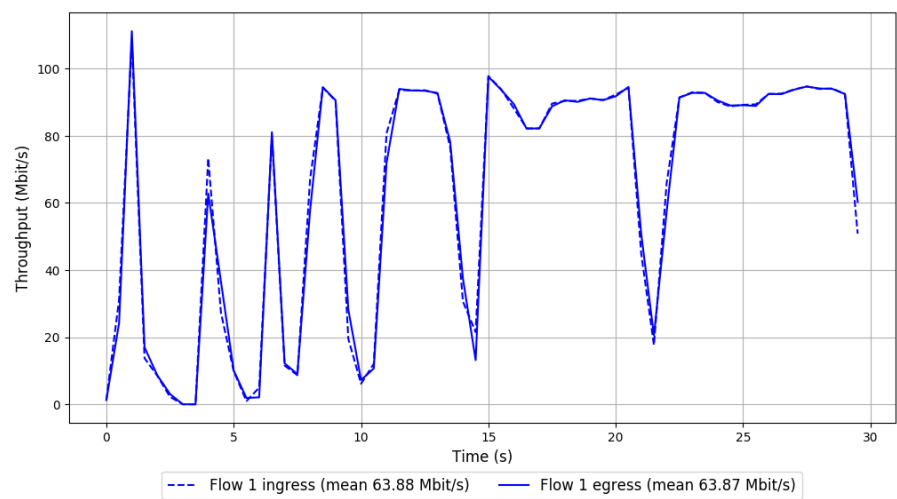
-- Flow 1:

Average throughput: 63.87 Mbit/s

95th percentile per-packet one-way delay: 53.098 ms

Loss rate: 0.01%

Run 9: Report of QUIC Cubic — Data Link

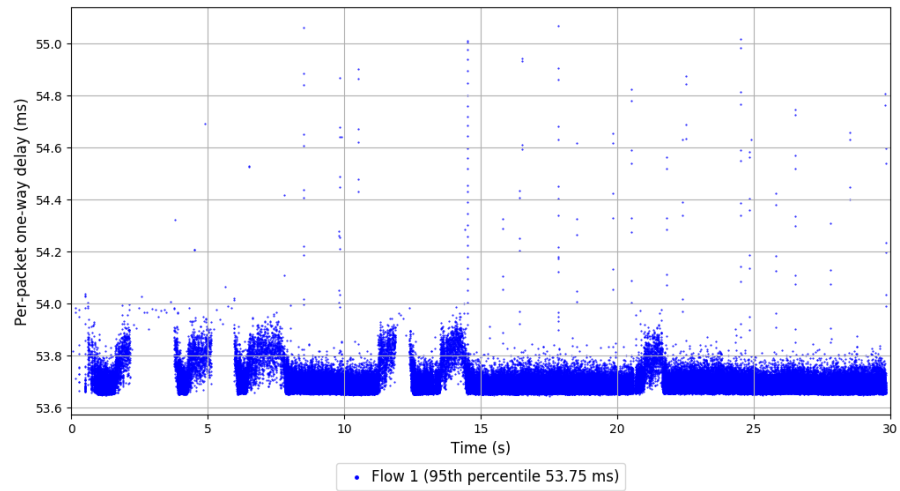
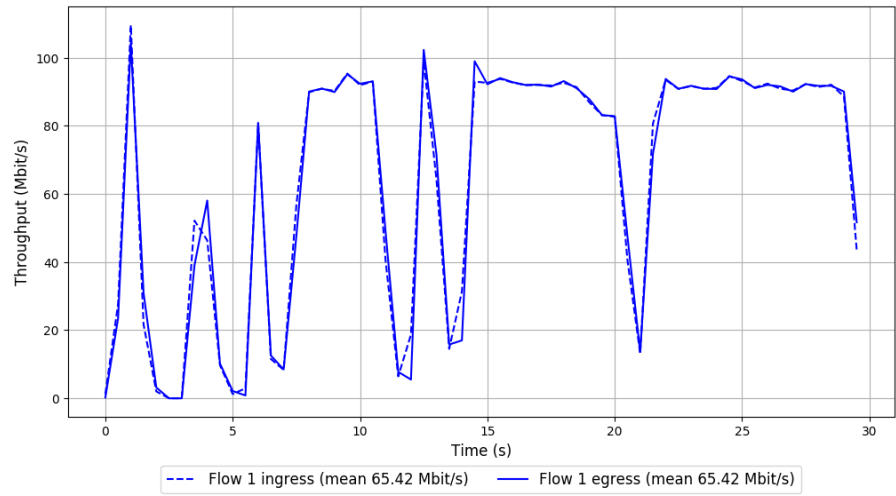


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-10-11 02:15:29
End at: 2017-10-11 02:15:59

# Below is generated by plot.py at 2017-10-11 03:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.42 Mbit/s
95th percentile per-packet one-way delay: 53.747 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 65.42 Mbit/s
95th percentile per-packet one-way delay: 53.747 ms
Loss rate: 0.01%
```

Run 10: Report of QUIC Cubic — Data Link

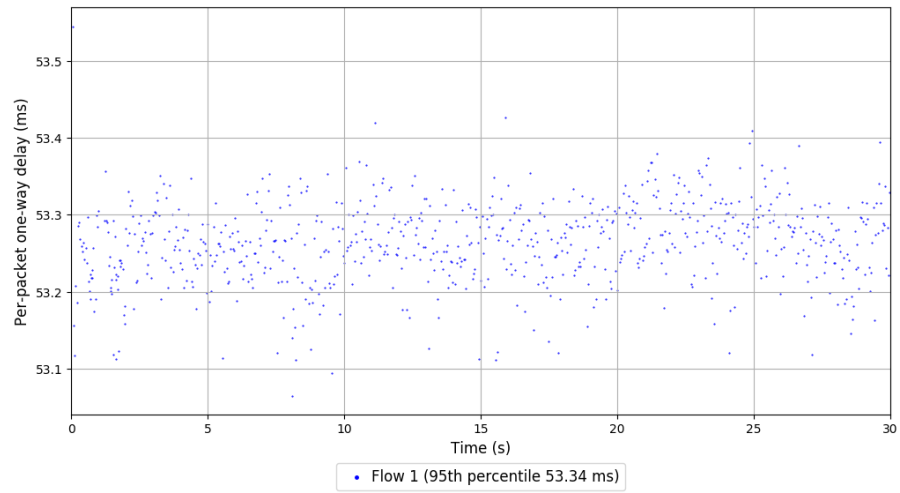
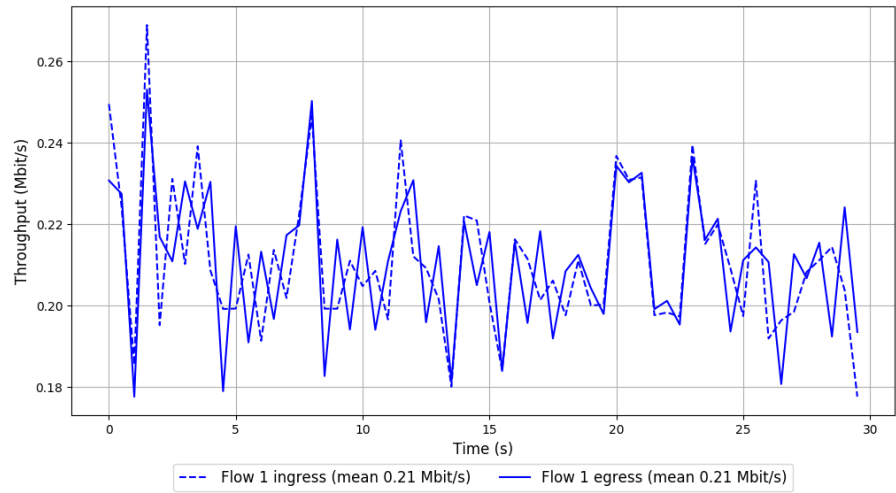


```
Run 1: Statistics of SCReAM

Start at: 2017-10-11 00:33:50
End at: 2017-10-11 00:34:20

# Below is generated by plot.py at 2017-10-11 03:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.344 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

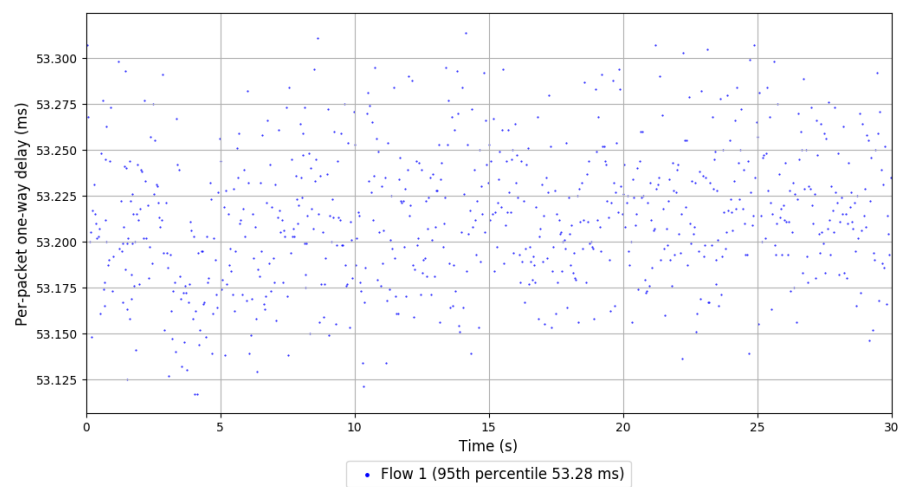
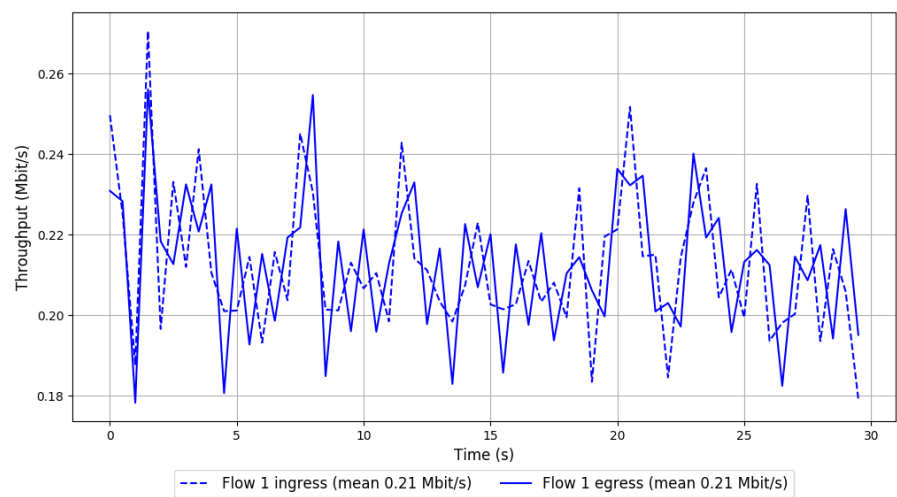


```
Run 2: Statistics of SCReAM

Start at: 2017-10-11 00:44:46
End at: 2017-10-11 00:45:16

# Below is generated by plot.py at 2017-10-11 03:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.280 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.280 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-10-11 00:55:04

End at: 2017-10-11 00:55:34

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.541 ms

Loss rate: 0.00%

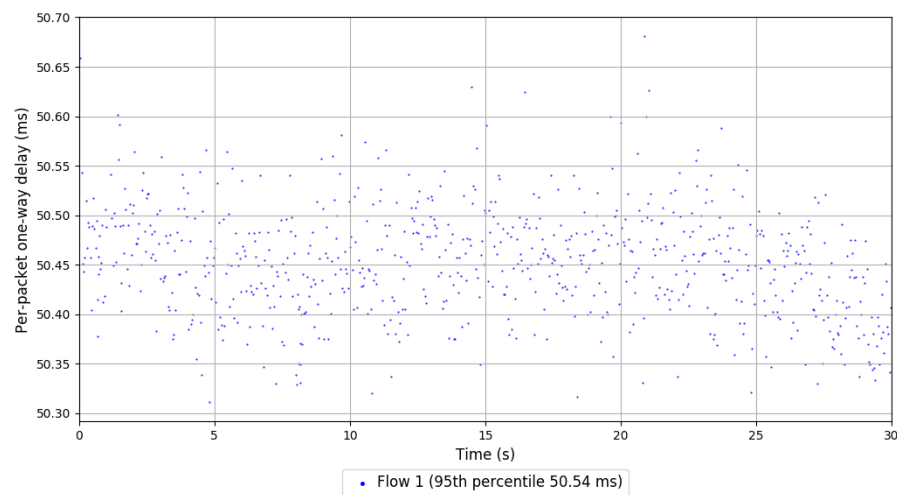
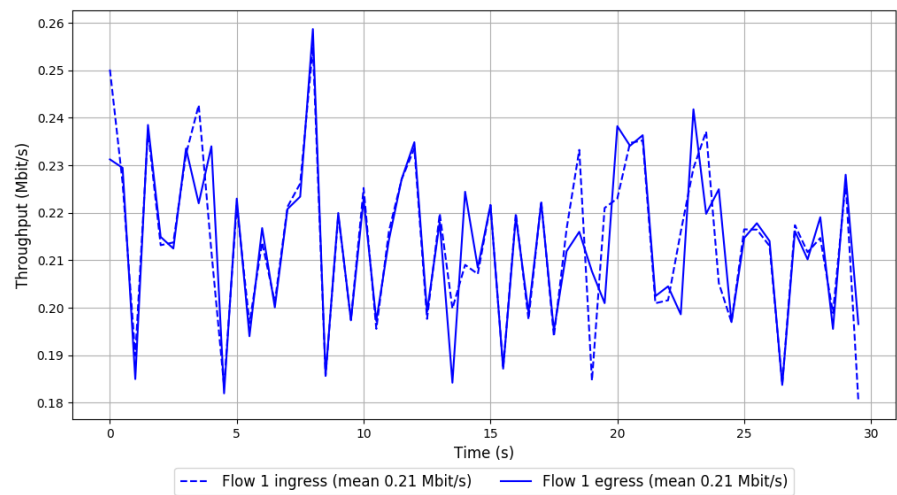
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.541 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

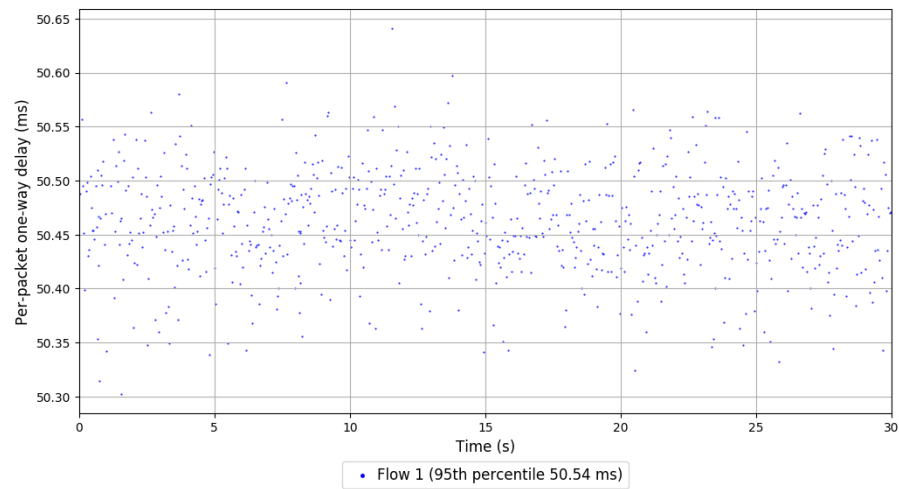
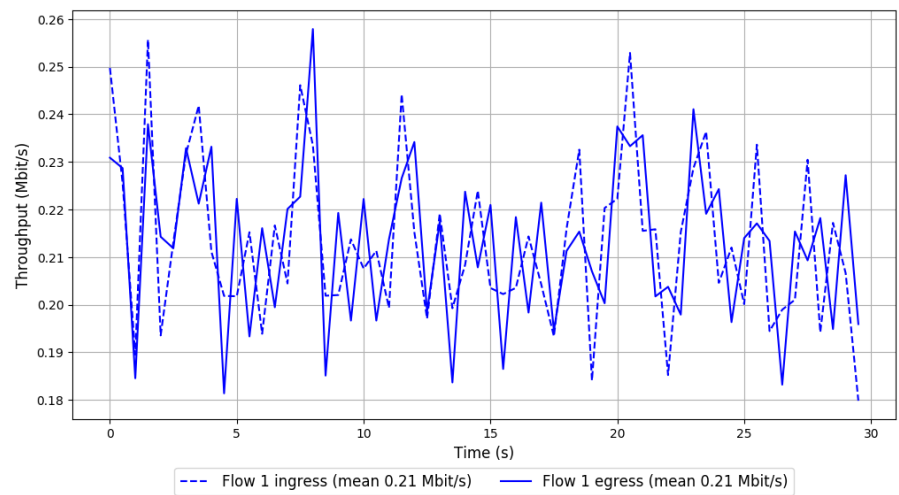


```
Run 4: Statistics of SCReAM

Start at: 2017-10-11 01:05:48
End at: 2017-10-11 01:06:18

# Below is generated by plot.py at 2017-10-11 03:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.538 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

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

End at: 2017-10-11 01:17:00

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.605 ms

Loss rate: 0.00%

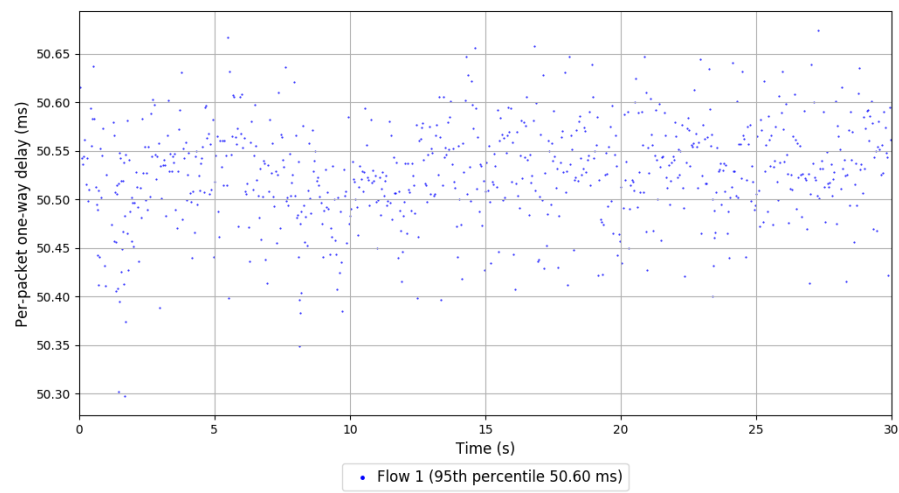
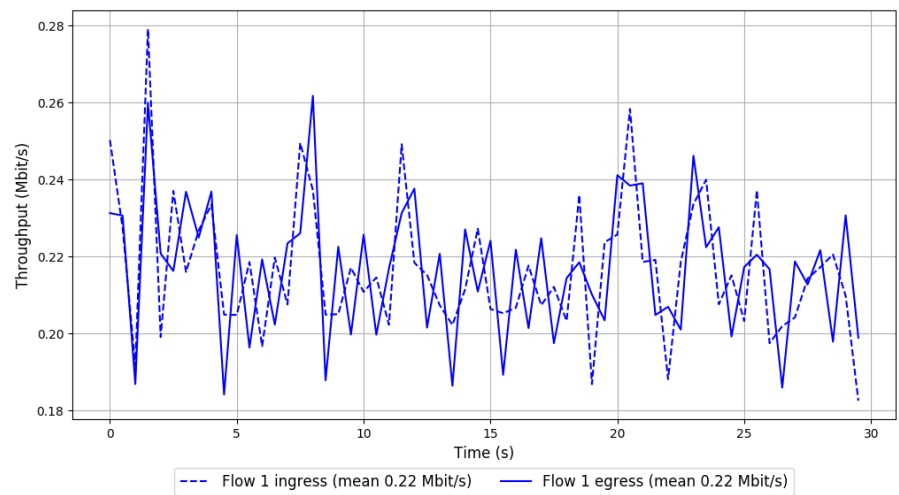
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.605 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-10-11 01:27:17

End at: 2017-10-11 01:27:47

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.951 ms

Loss rate: 0.13%

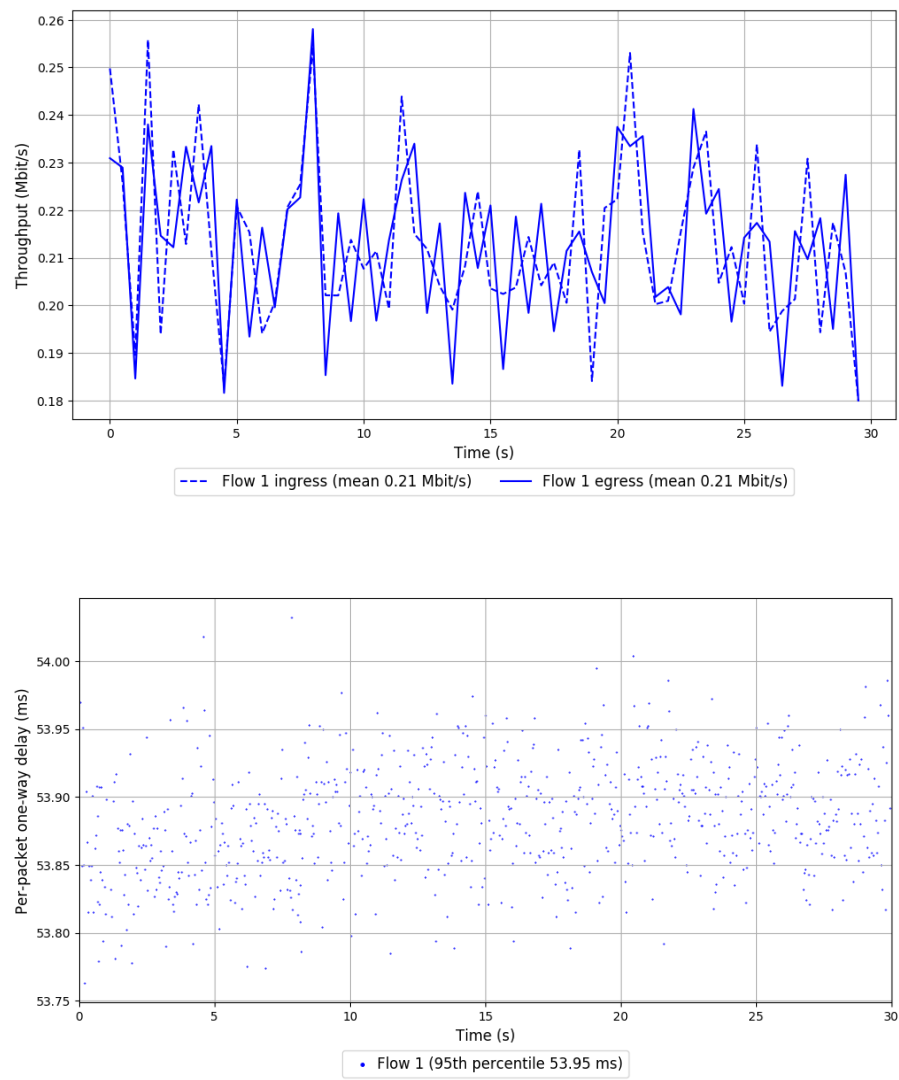
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.951 ms

Loss rate: 0.13%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-10-11 01:37:54

End at: 2017-10-11 01:38:24

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.193 ms

Loss rate: 0.00%

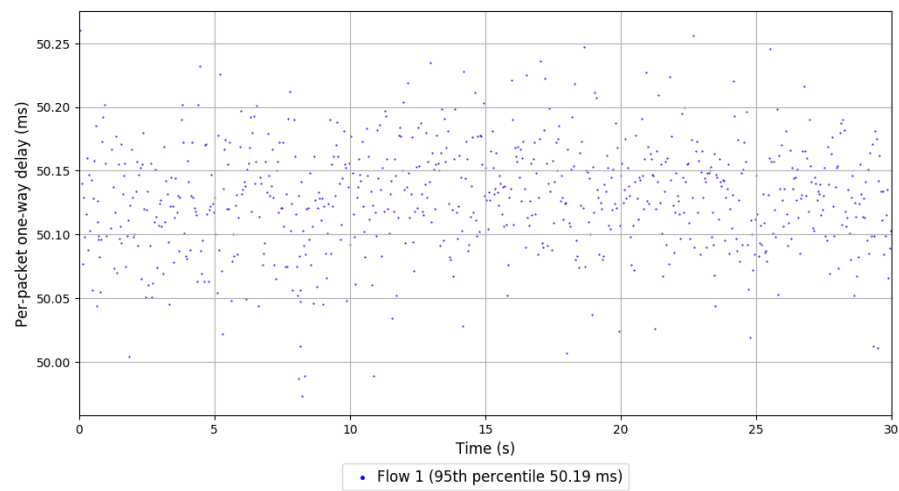
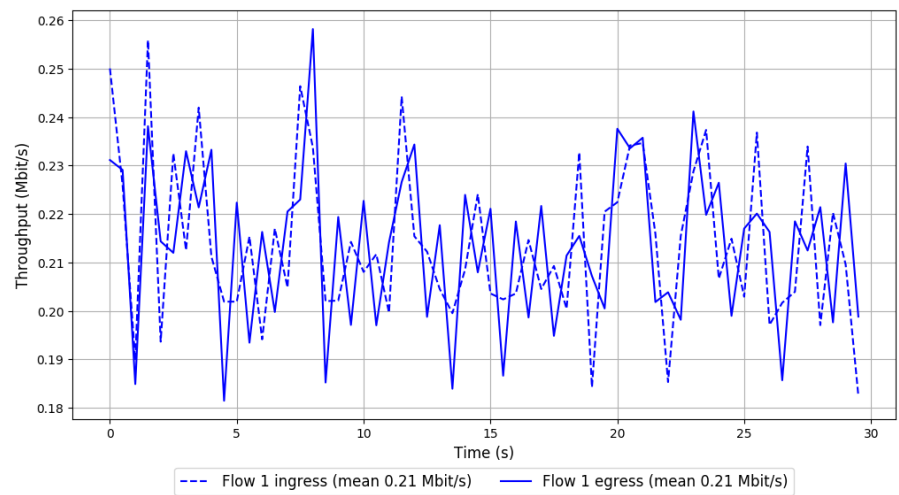
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.193 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-10-11 01:48:04

End at: 2017-10-11 01:48:34

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.194 ms

Loss rate: 0.00%

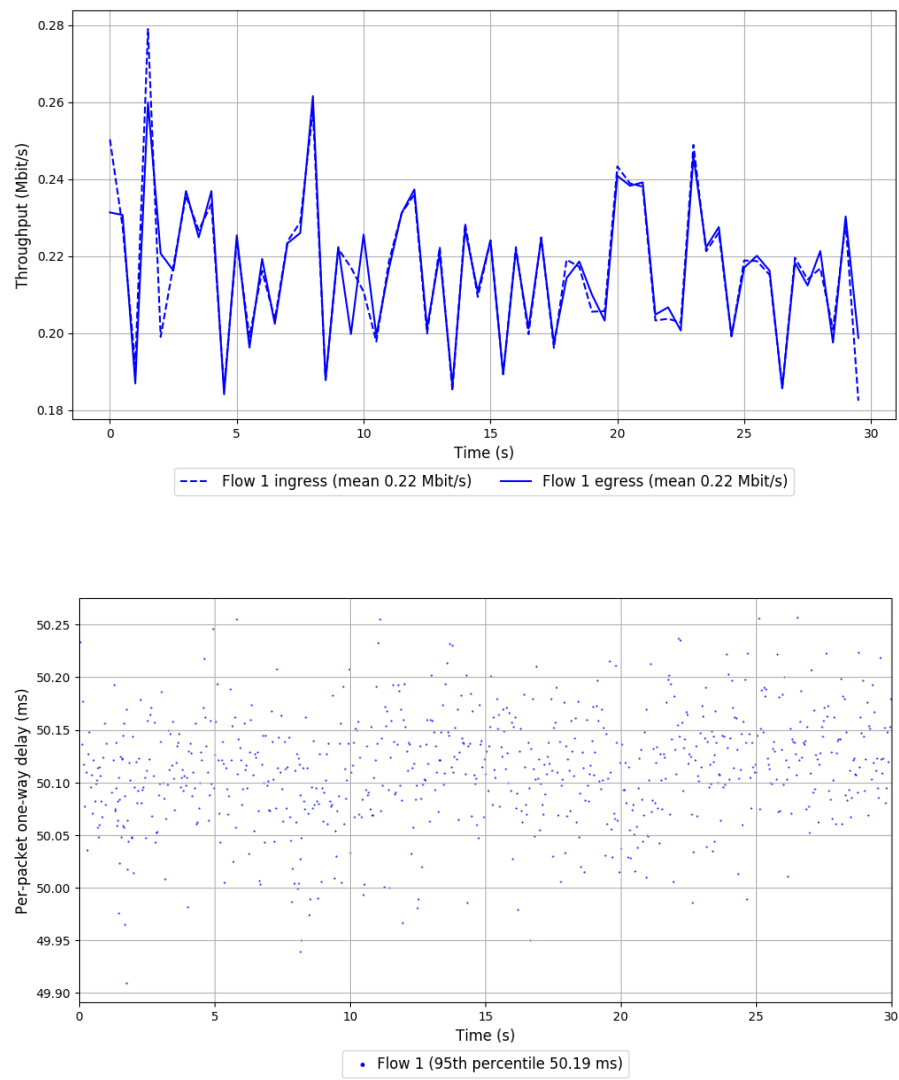
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.194 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-10-11 01:58:55

End at: 2017-10-11 01:59:25

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.469 ms

Loss rate: 0.00%

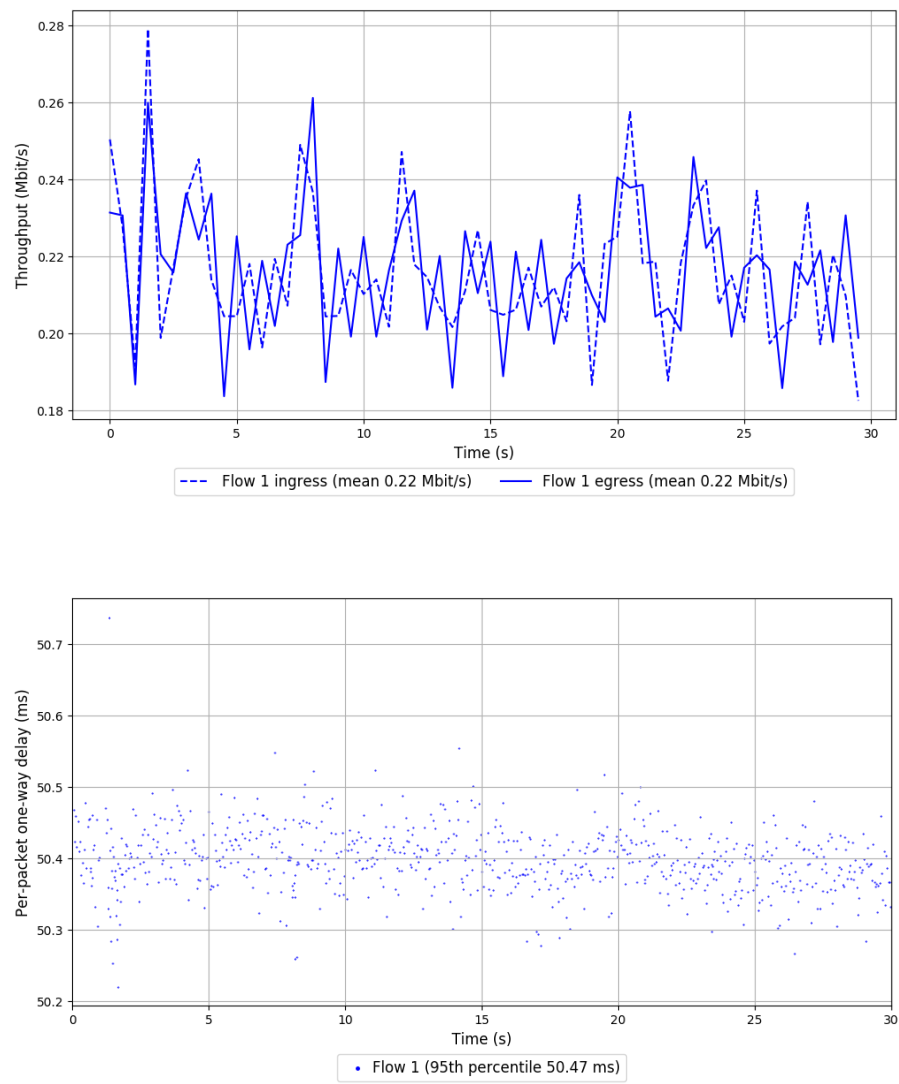
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.469 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

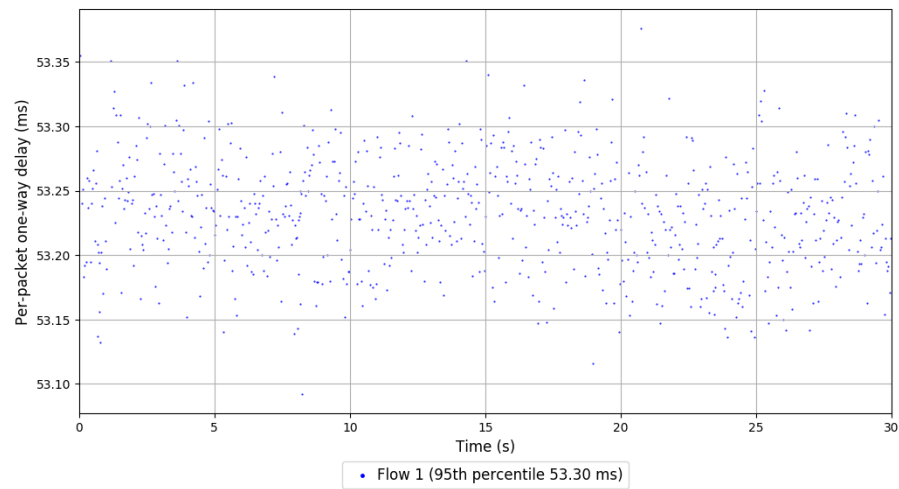
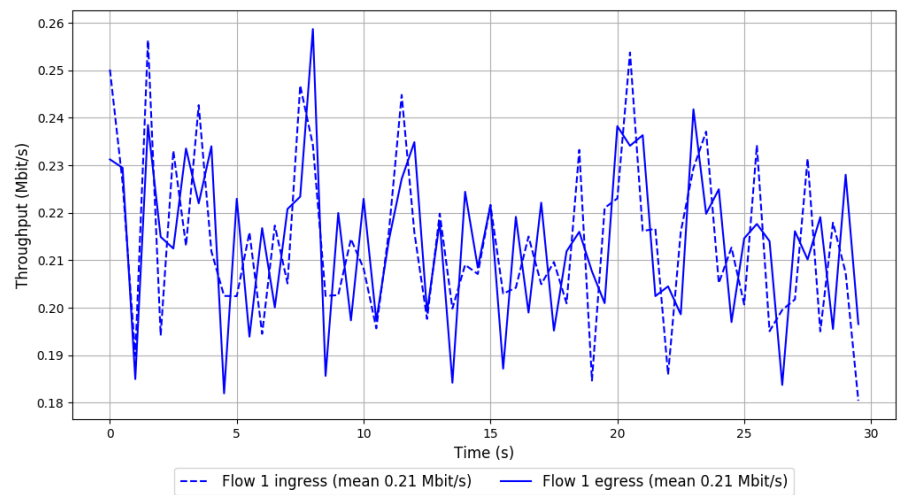


```
Run 10: Statistics of SReAM

Start at: 2017-10-11 02:09:08
End at: 2017-10-11 02:09:38

# Below is generated by plot.py at 2017-10-11 03:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.301 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.301 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

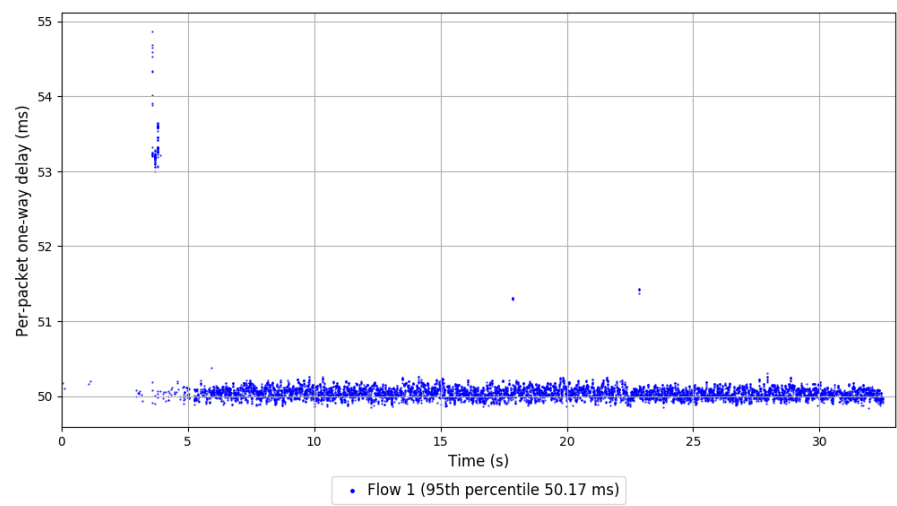
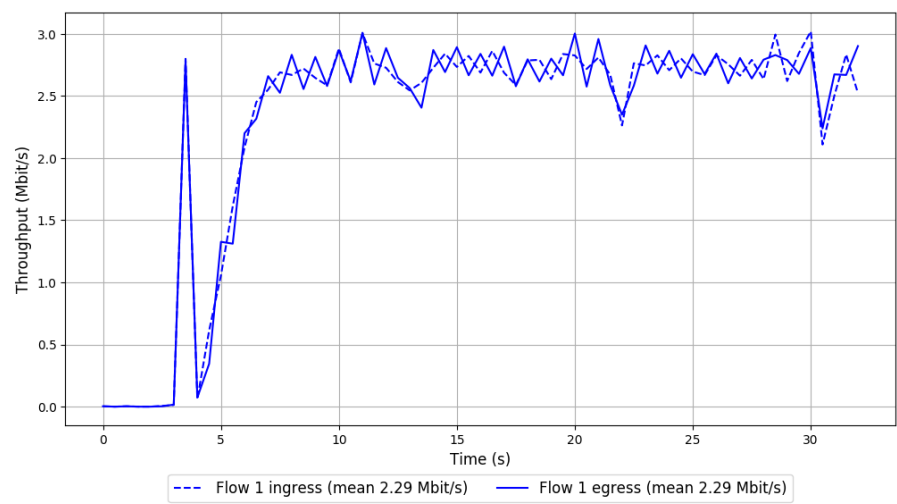


```
Run 1: Statistics of WebRTC media

Start at: 2017-10-11 00:41:04
End at: 2017-10-11 00:41:34

# Below is generated by plot.py at 2017-10-11 03:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 50.175 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 50.175 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

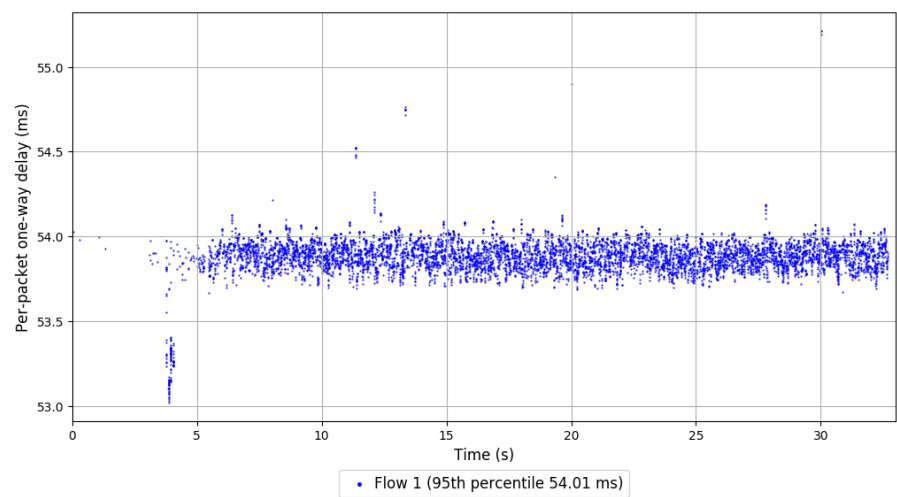
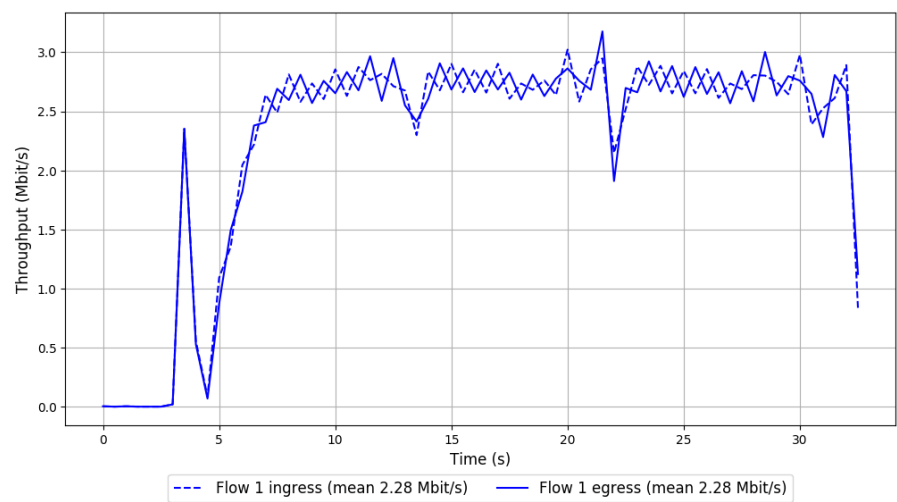


```
Run 2: Statistics of WebRTC media

Start at: 2017-10-11 00:51:16
End at: 2017-10-11 00:51:46

# Below is generated by plot.py at 2017-10-11 03:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.012 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.012 ms
Loss rate: 0.11%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

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

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

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 54.031 ms

Loss rate: 0.00%

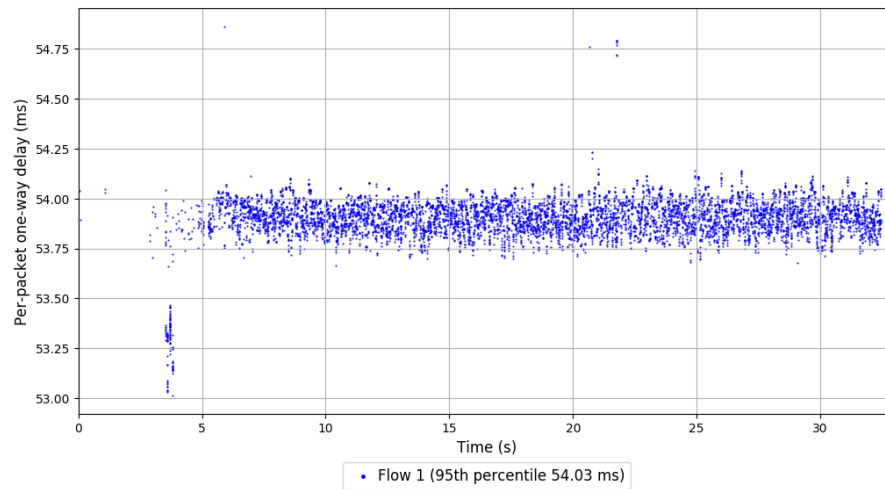
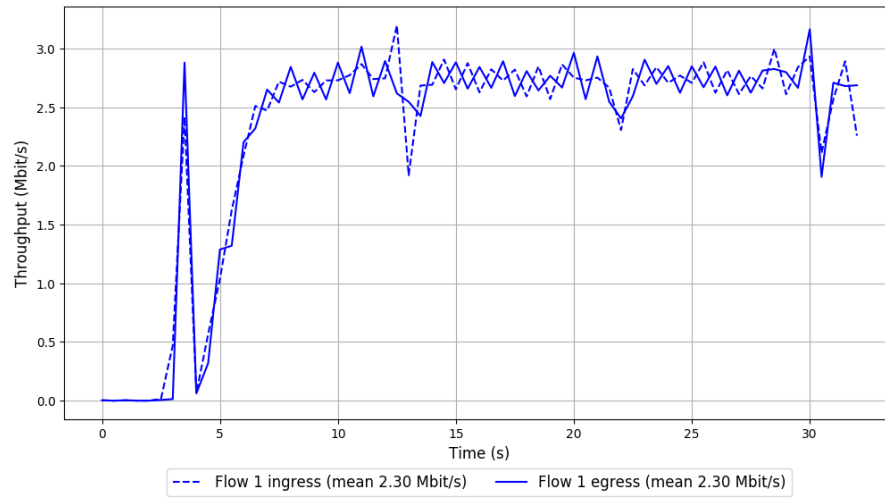
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 54.031 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-10-11 01:12:33

End at: 2017-10-11 01:13:03

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.990 ms

Loss rate: 0.00%

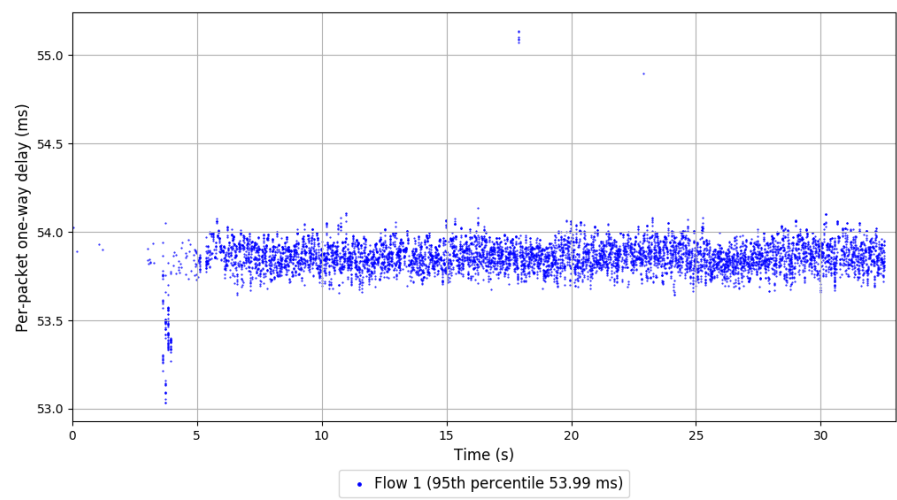
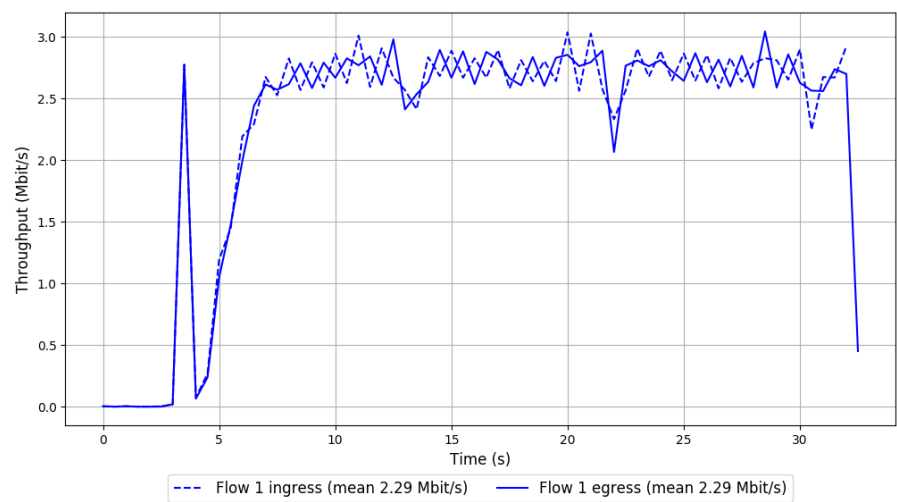
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.990 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-10-11 01:23:37

End at: 2017-10-11 01:24:07

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.513 ms

Loss rate: 0.00%

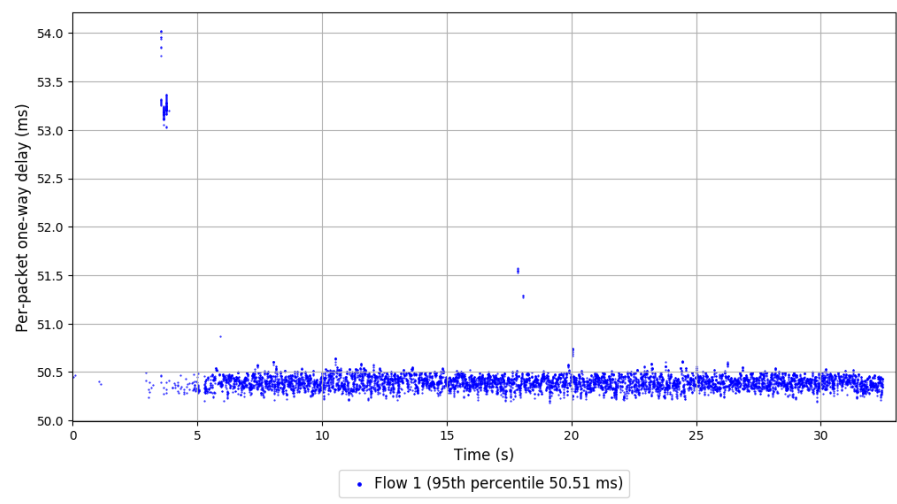
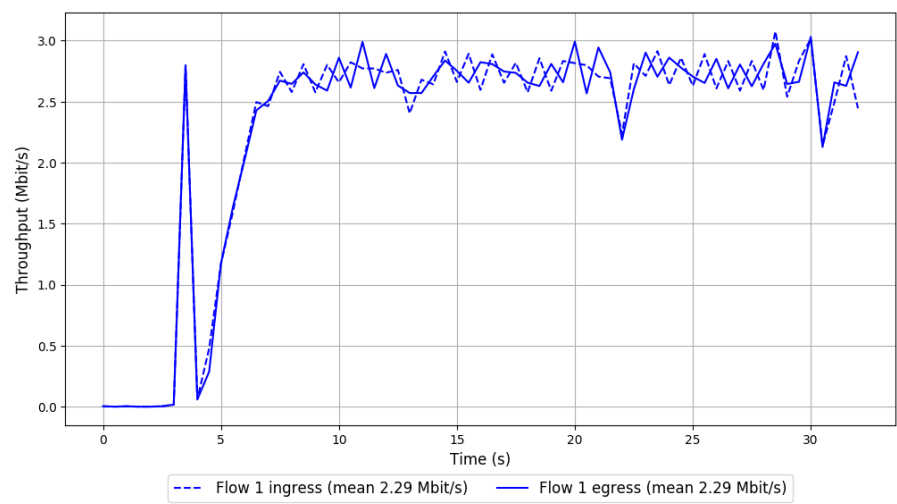
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.513 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-10-11 01:34:14

End at: 2017-10-11 01:34:44

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.958 ms

Loss rate: 0.00%

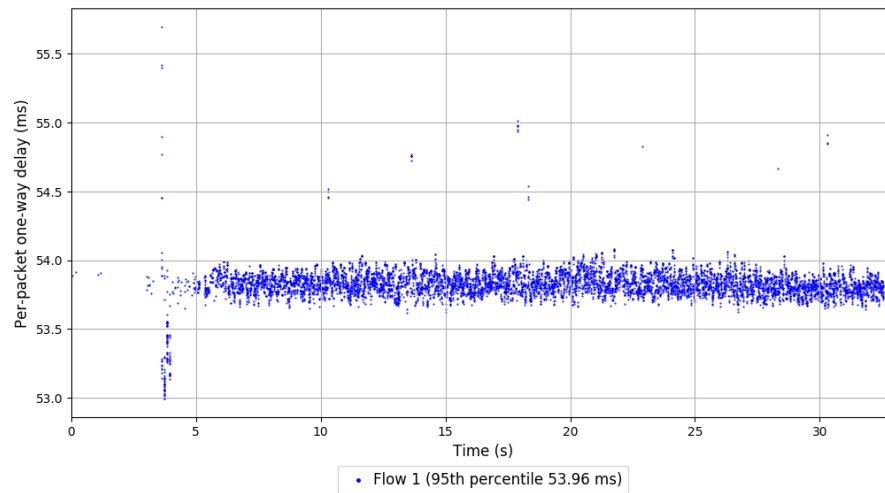
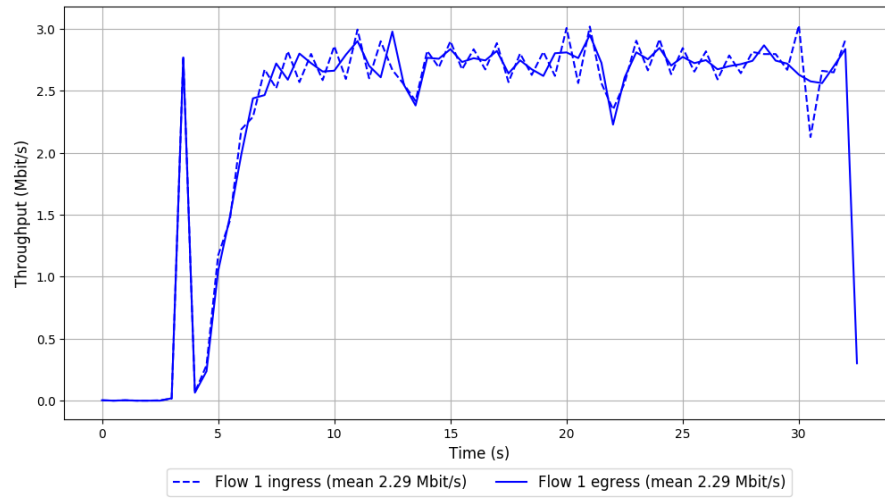
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.958 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-10-11 01:44:16

End at: 2017-10-11 01:44:46

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.308 ms

Loss rate: 0.01%

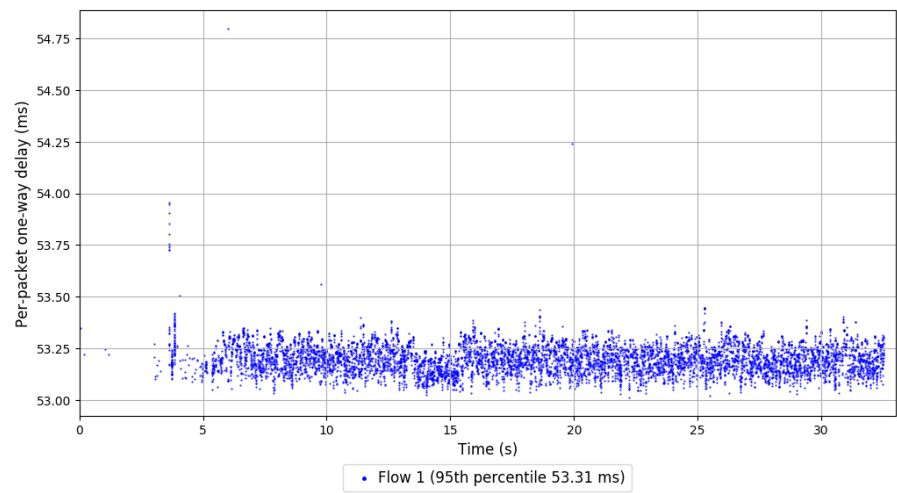
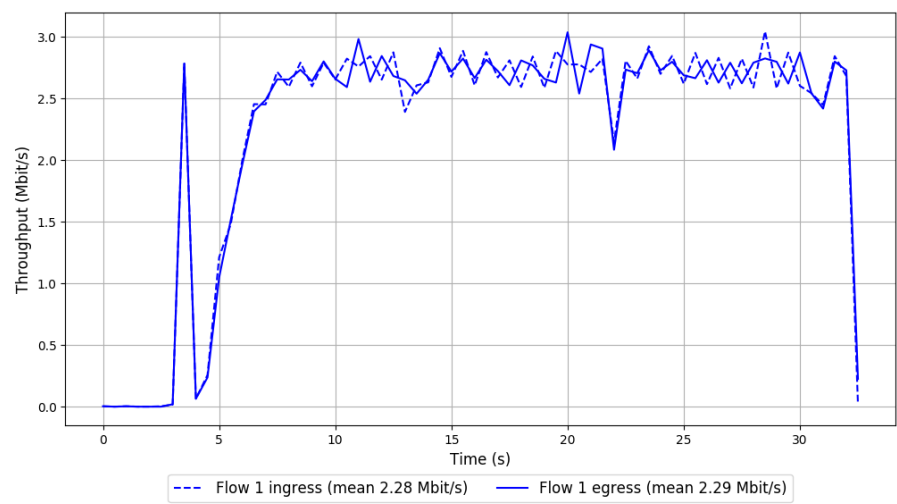
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.308 ms

Loss rate: 0.01%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-10-11 01:55:12

End at: 2017-10-11 01:55:42

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.942 ms

Loss rate: 0.00%

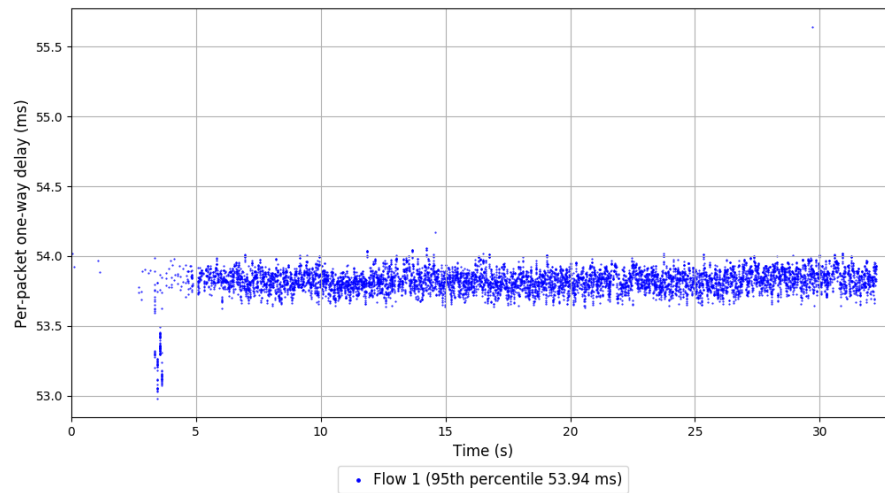
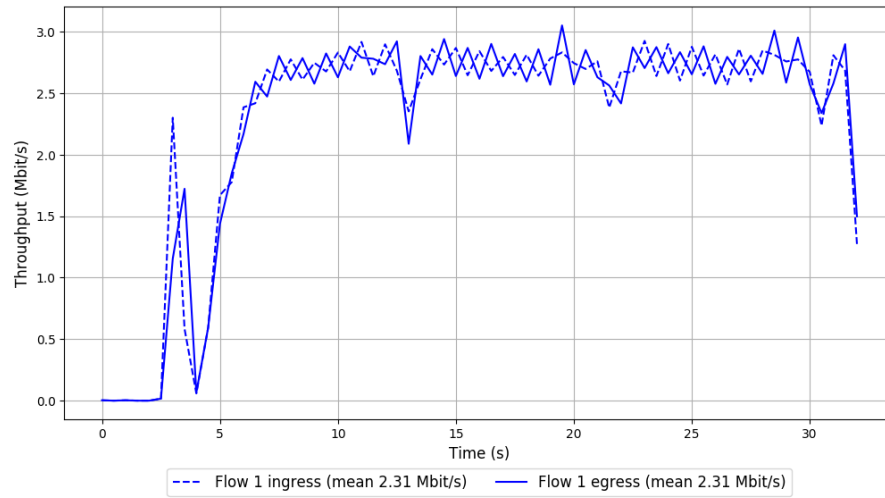
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.942 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-10-11 02:05:26

End at: 2017-10-11 02:05:56

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.533 ms

Loss rate: 0.00%

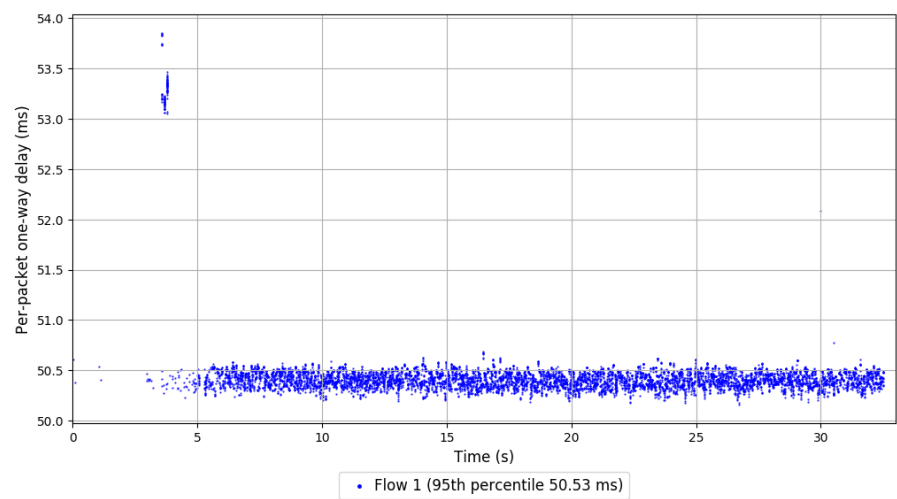
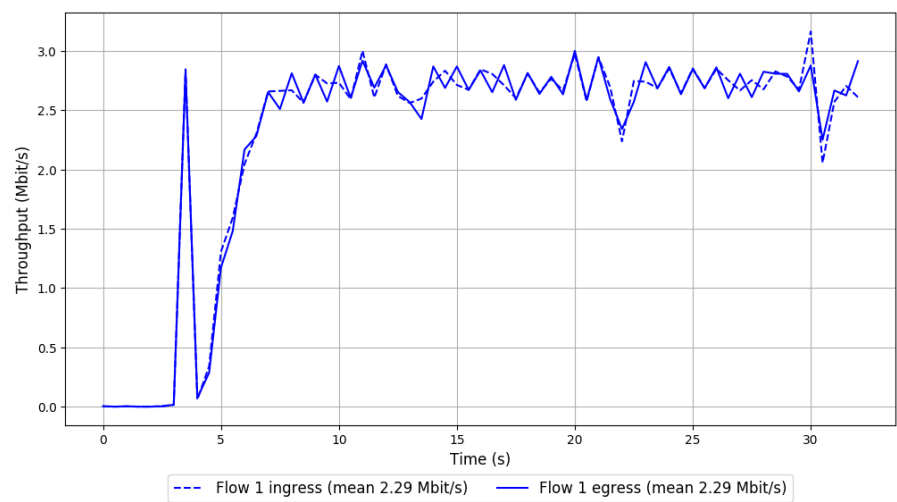
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.533 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-10-11 02:16:09

End at: 2017-10-11 02:16:39

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.177 ms

Loss rate: 0.00%

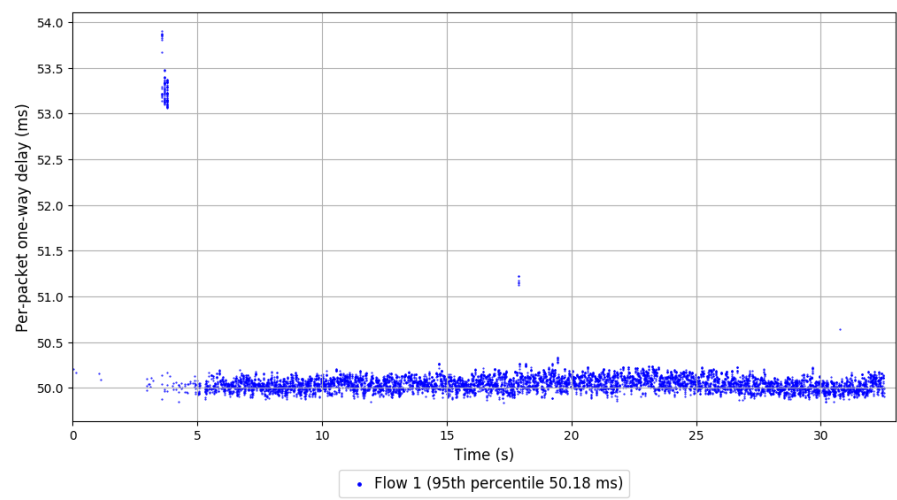
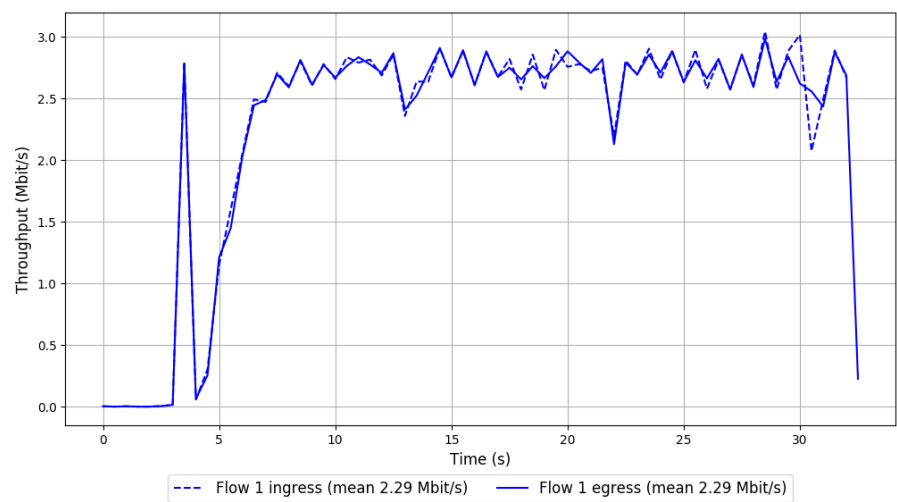
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.177 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

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

End at: 2017-10-11 00:42:11

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.160 ms

Loss rate: 0.36%

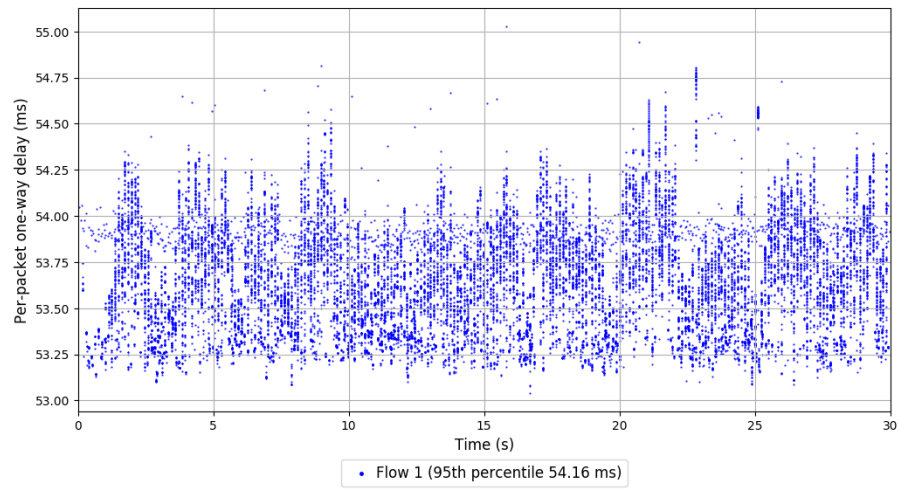
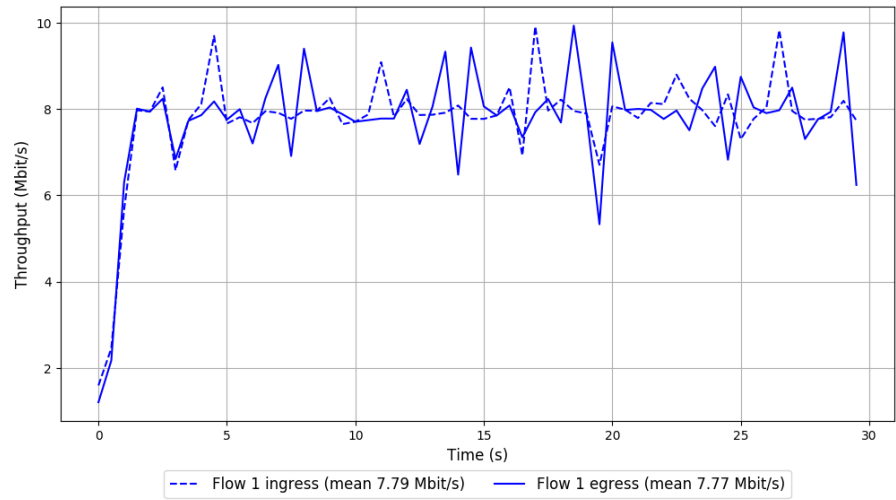
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.160 ms

Loss rate: 0.36%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-10-11 00:51:53

End at: 2017-10-11 00:52:23

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.072 ms

Loss rate: 0.00%

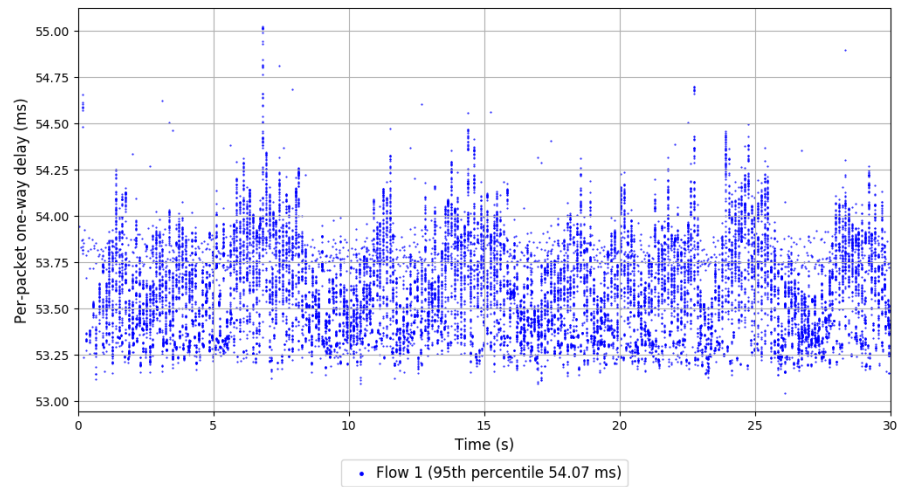
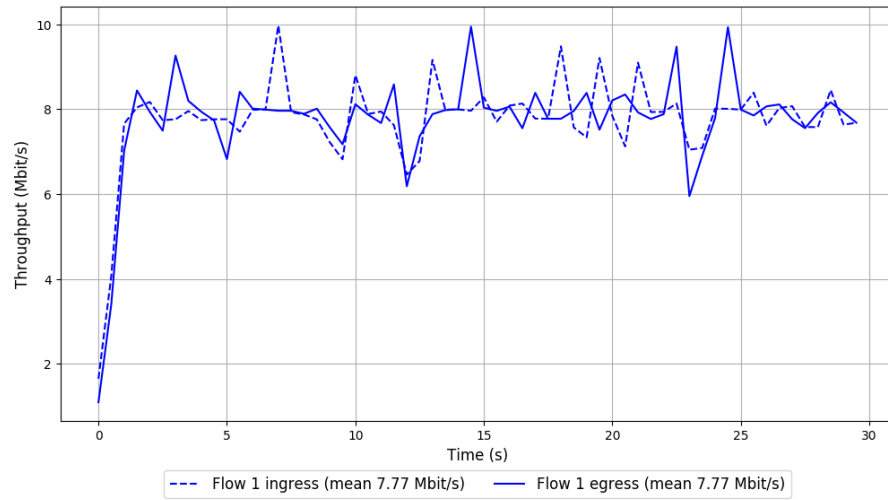
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.072 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-10-11 01:02:39

End at: 2017-10-11 01:03:09

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.079 ms

Loss rate: 0.00%

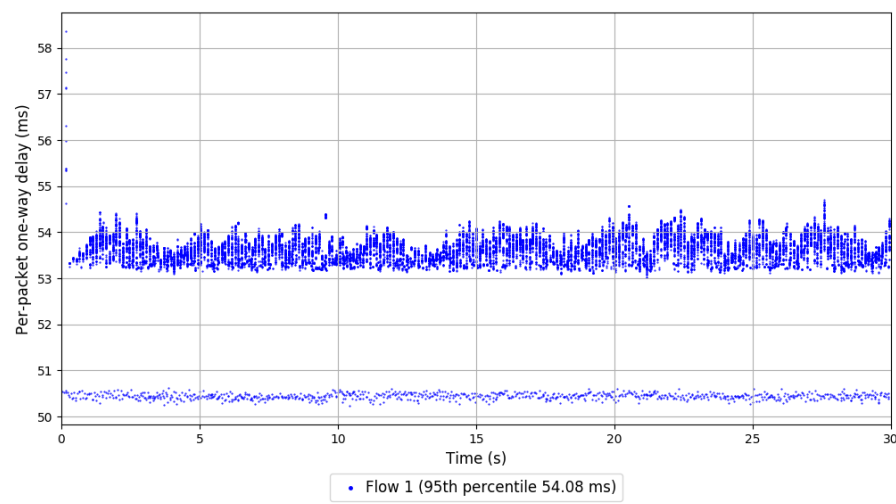
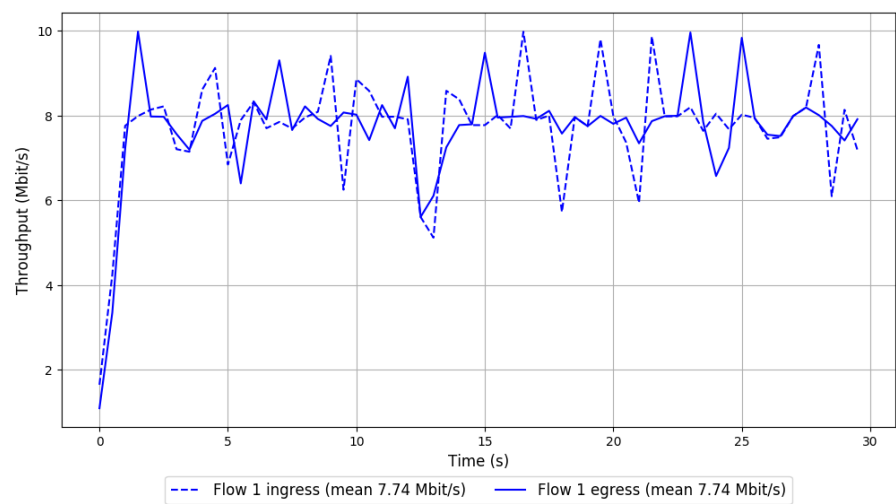
-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.079 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

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

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

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.019 ms

Loss rate: 0.00%

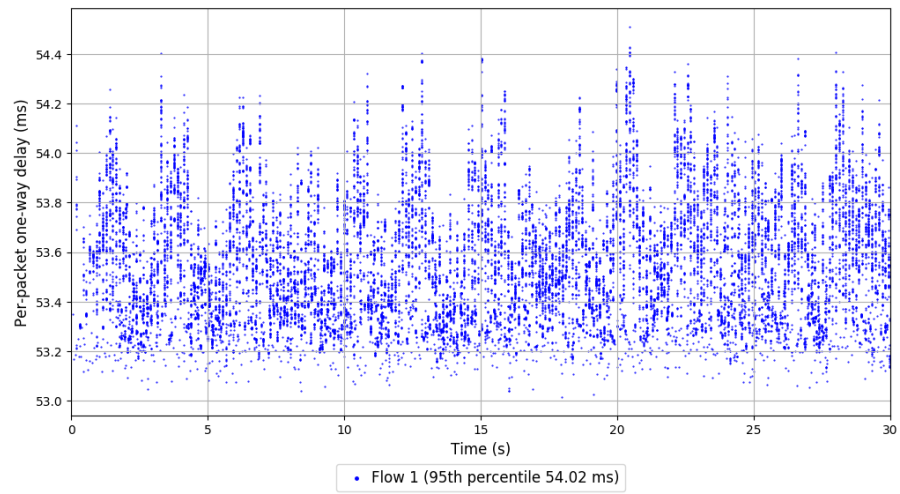
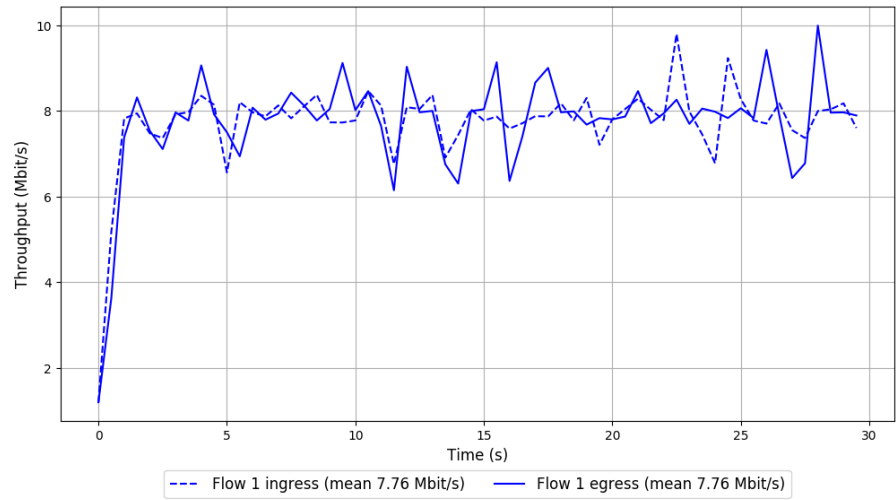
-- Flow 1:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.019 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-10-11 01:24:14

End at: 2017-10-11 01:24:44

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.071 ms

Loss rate: 0.00%

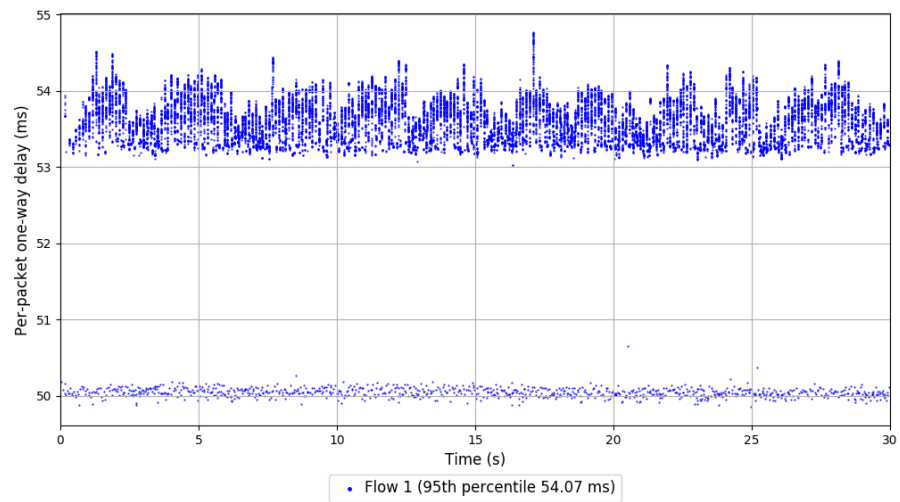
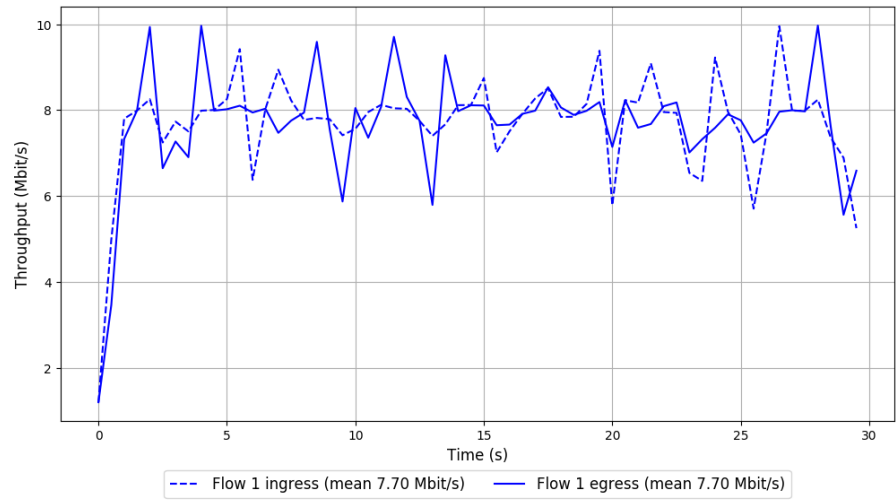
-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.071 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-10-11 01:34:51

End at: 2017-10-11 01:35:21

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.123 ms

Loss rate: 0.00%

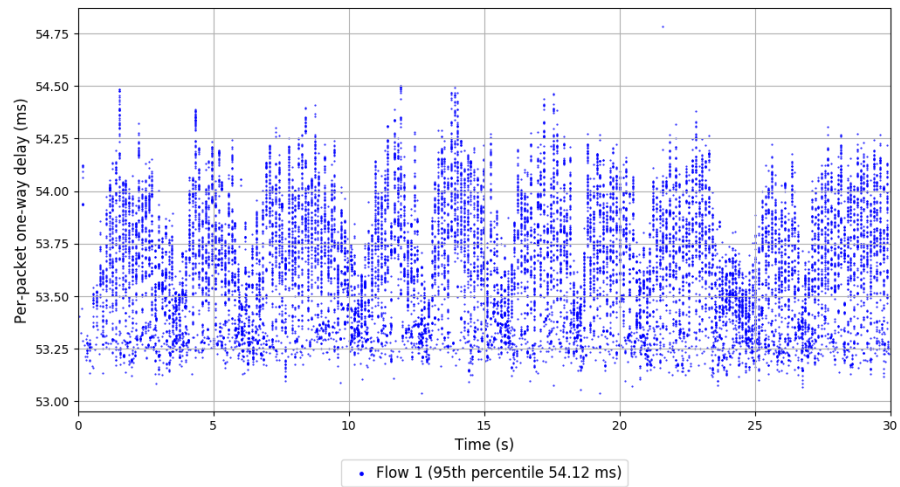
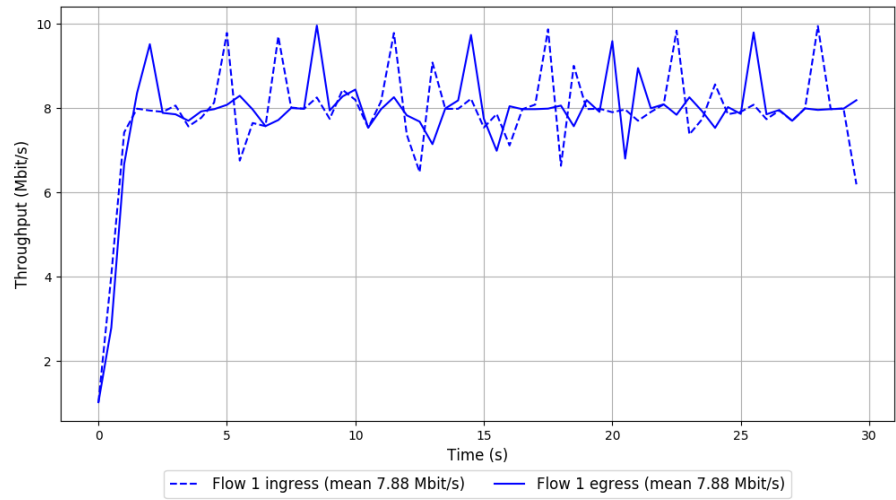
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.123 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-10-11 01:44:53

End at: 2017-10-11 01:45:23

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.125 ms

Loss rate: 0.00%

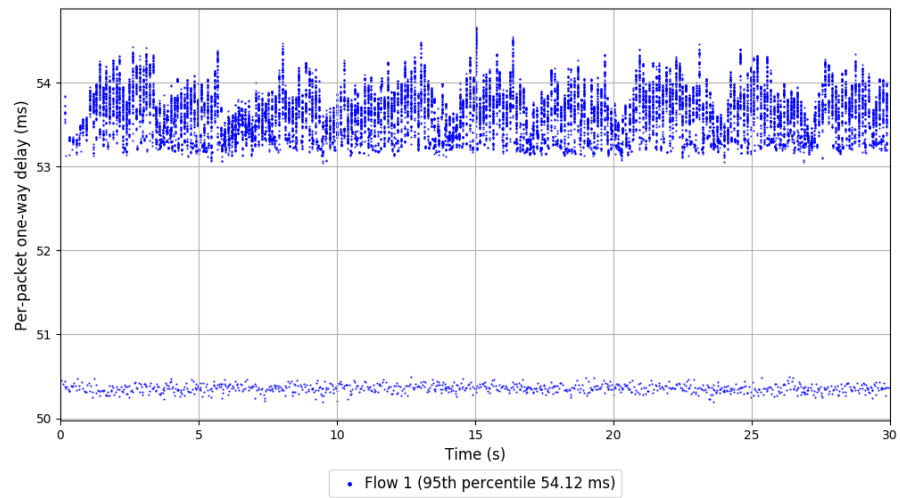
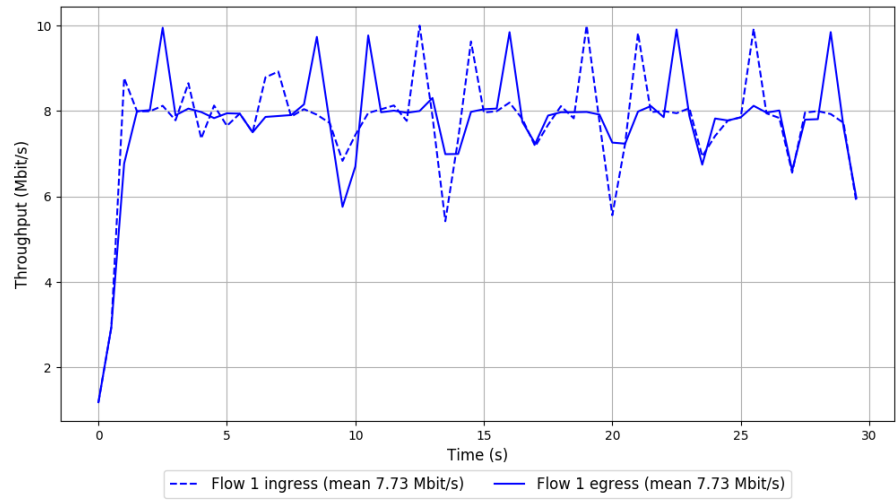
-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.125 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-10-11 01:55:49

End at: 2017-10-11 01:56:19

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.71 Mbit/s

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

Loss rate: 0.00%

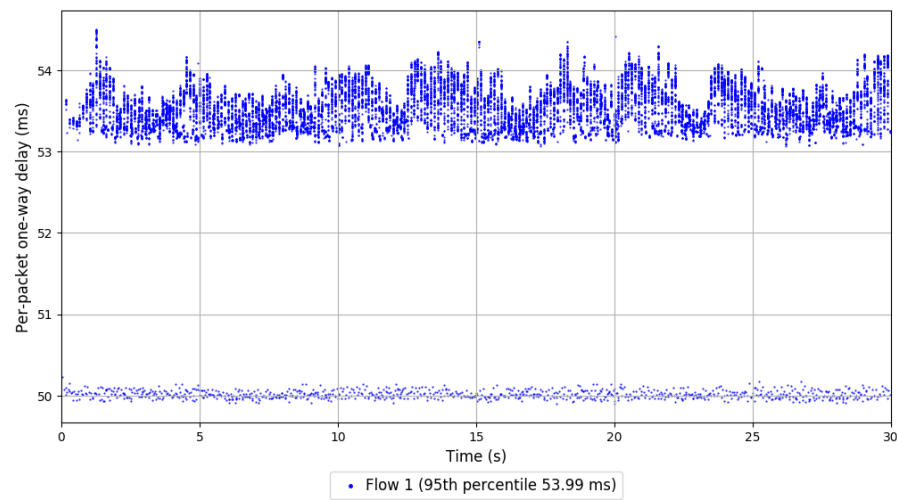
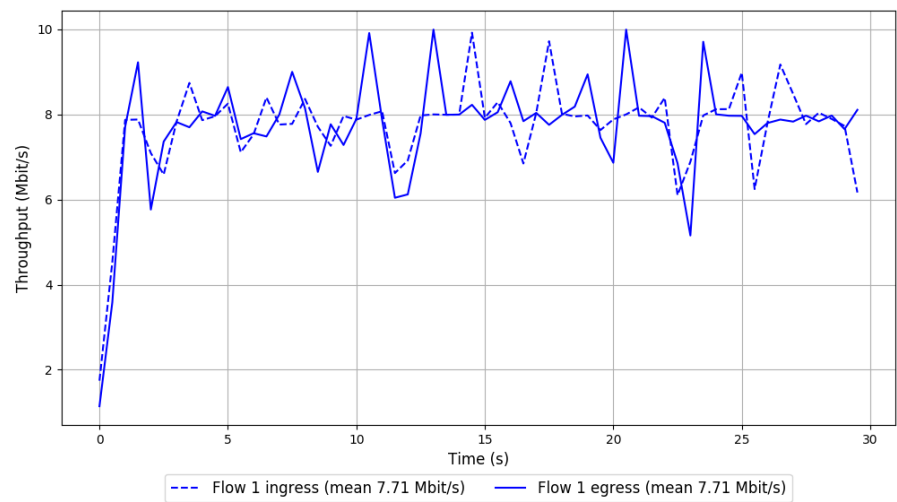
-- Flow 1:

Average throughput: 7.71 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-10-11 02:06:03

End at: 2017-10-11 02:06:33

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.036 ms

Loss rate: 0.00%

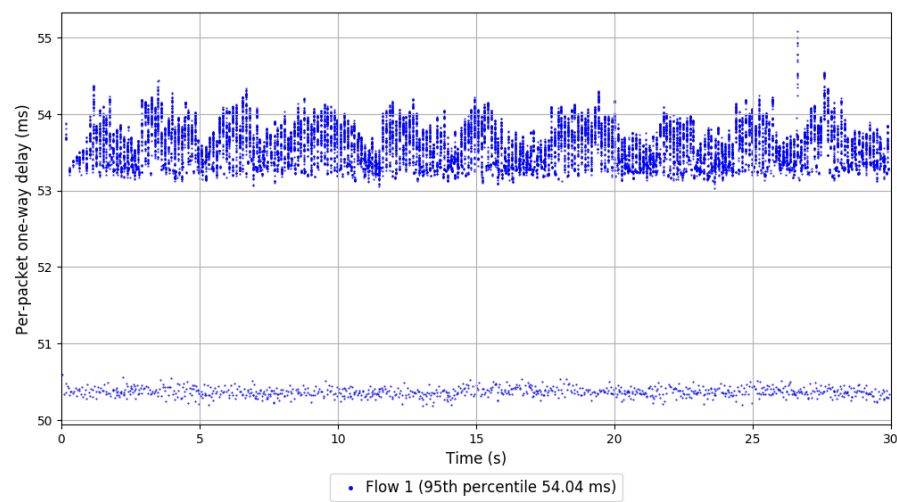
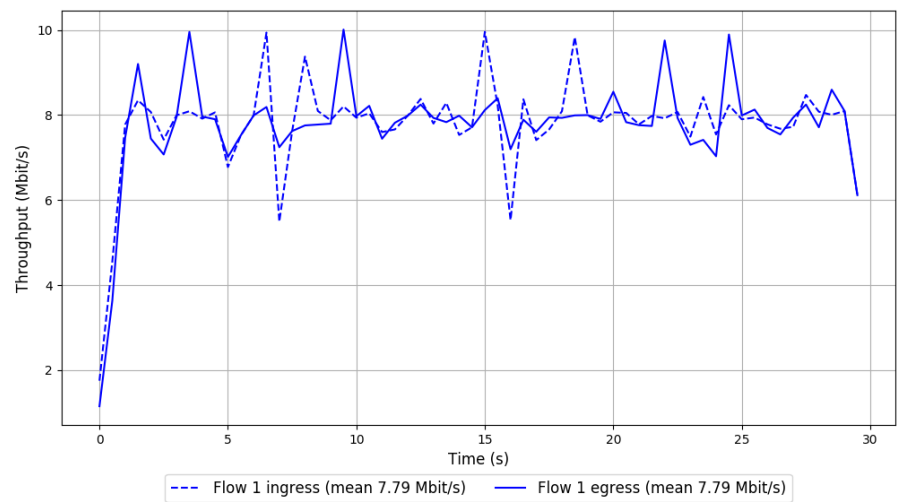
-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.036 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-10-11 02:16:46

End at: 2017-10-11 02:17:16

Below is generated by plot.py at 2017-10-11 03:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 54.180 ms

Loss rate: 0.00%

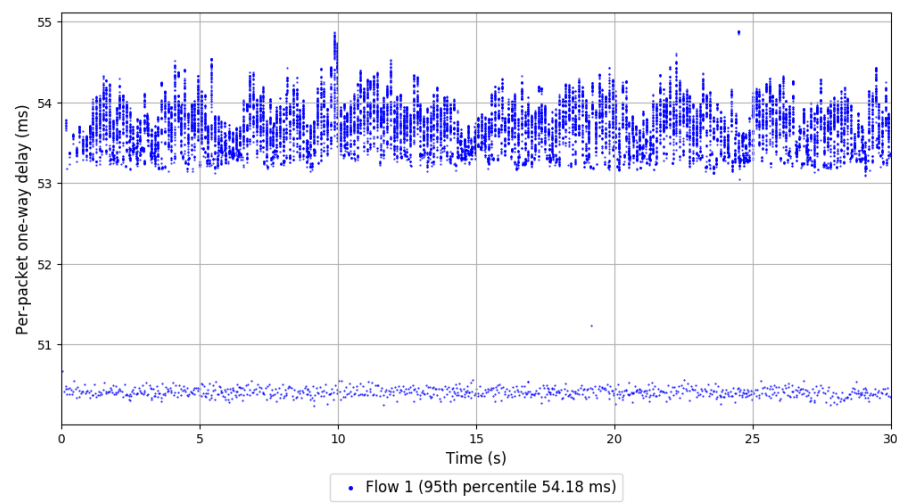
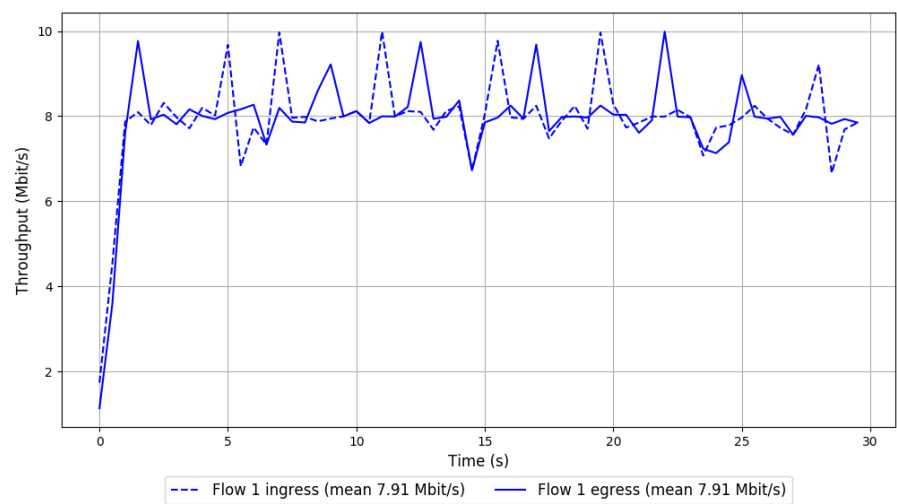
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 54.180 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

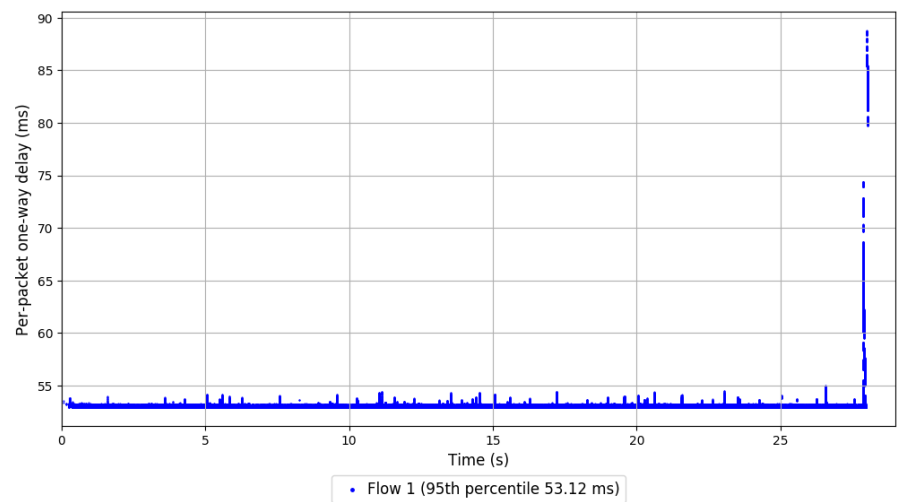
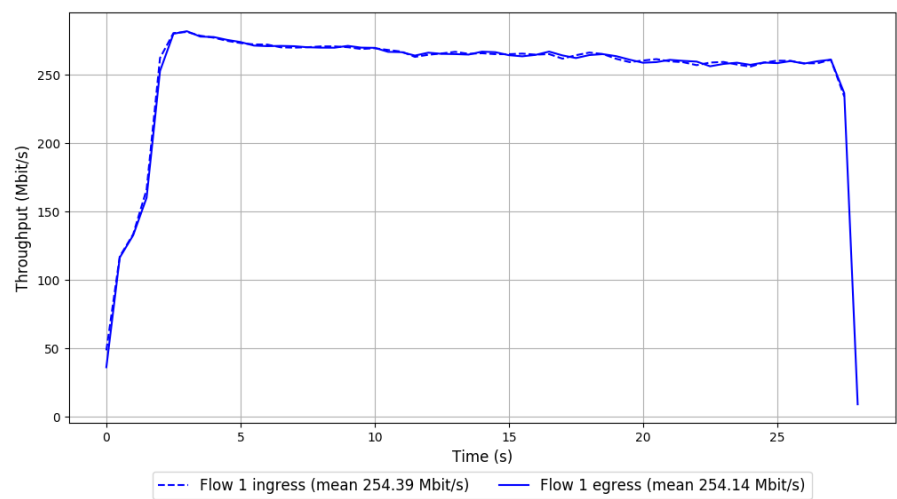


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-10-11 00:35:53
End at: 2017-10-11 00:36:23

# Below is generated by plot.py at 2017-10-11 03:34:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.14 Mbit/s
95th percentile per-packet one-way delay: 53.120 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 254.14 Mbit/s
95th percentile per-packet one-way delay: 53.120 ms
Loss rate: 0.11%
```


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

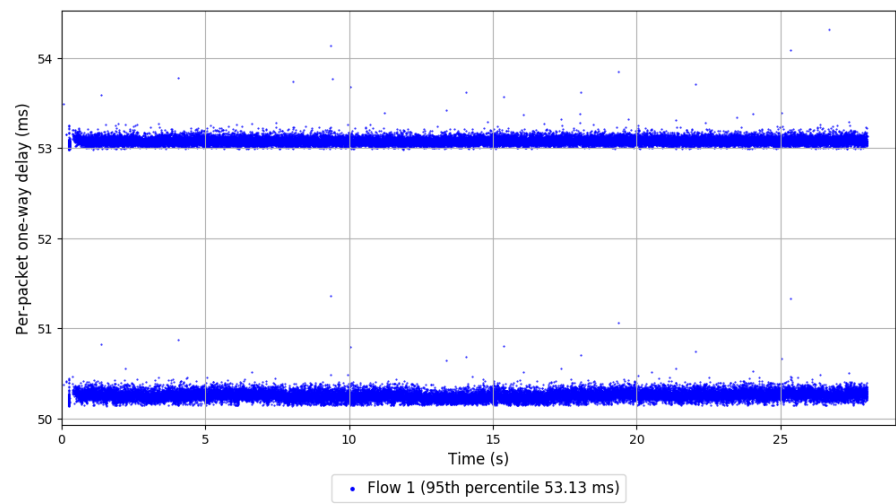
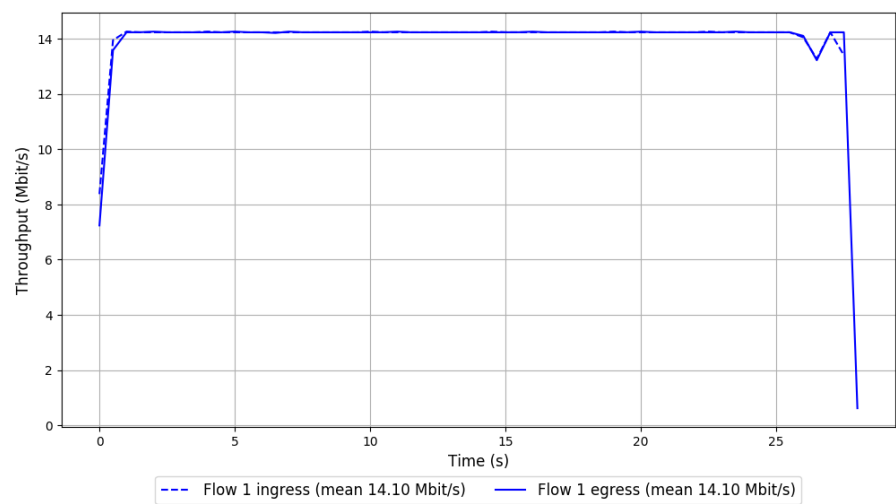


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-10-11 00:46:49
End at: 2017-10-11 00:47:19

# Below is generated by plot.py at 2017-10-11 03:34:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.10 Mbit/s
95th percentile per-packet one-way delay: 53.129 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 14.10 Mbit/s
95th percentile per-packet one-way delay: 53.129 ms
Loss rate: 0.01%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-10-11 00:57:03

End at: 2017-10-11 00:57:33

Below is generated by plot.py at 2017-10-11 03:34:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.91 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 0.01%

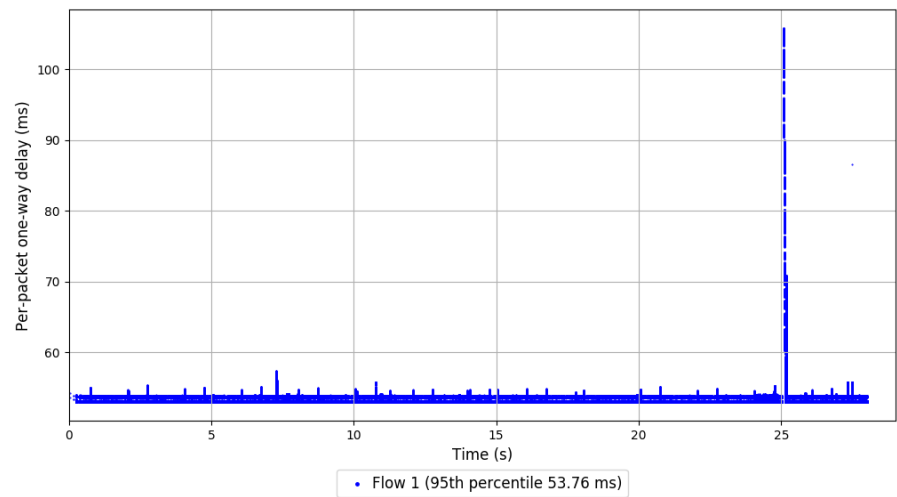
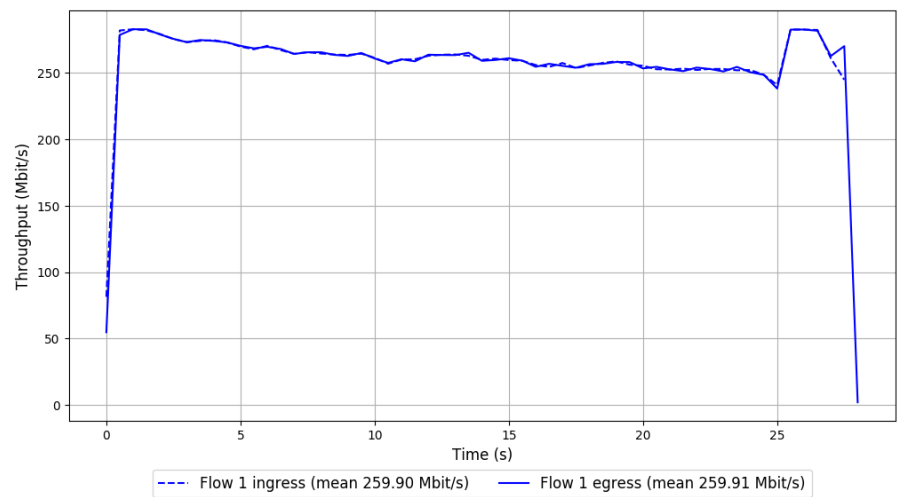
-- Flow 1:

Average throughput: 259.91 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-10-11 01:07:48

End at: 2017-10-11 01:08:18

Below is generated by plot.py at 2017-10-11 03:34:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.07 Mbit/s

95th percentile per-packet one-way delay: 53.144 ms

Loss rate: 0.01%

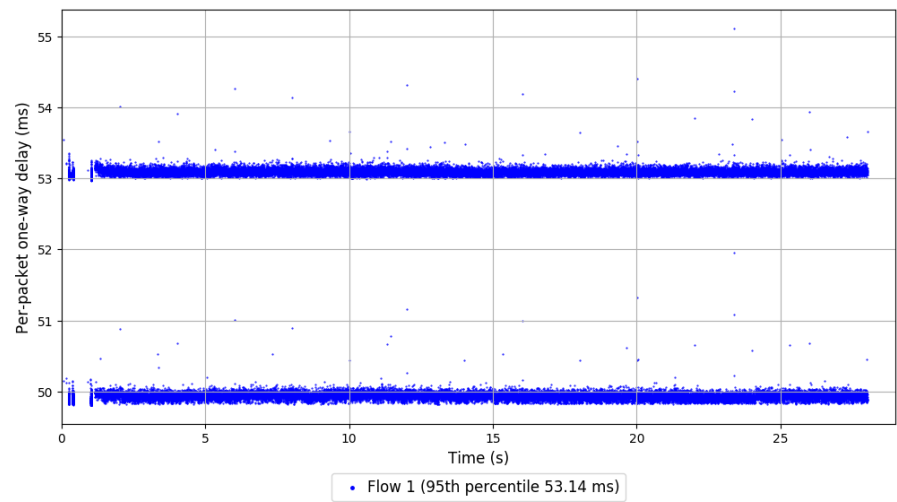
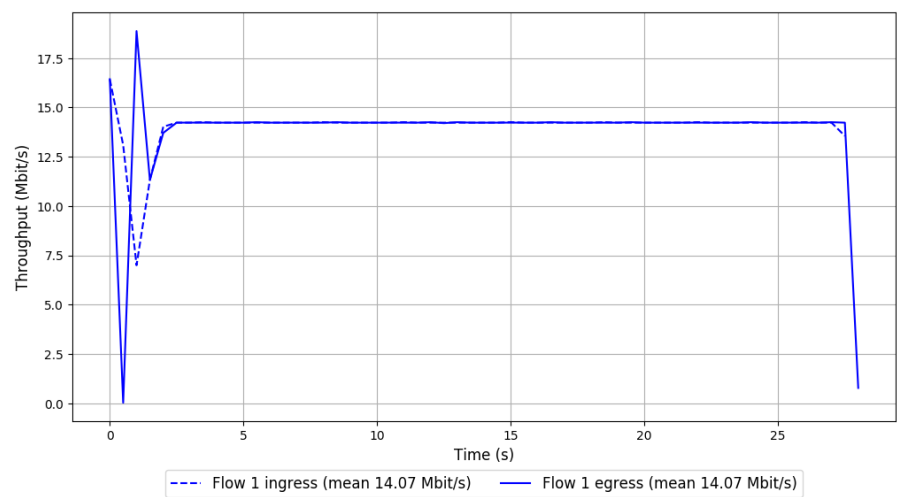
-- Flow 1:

Average throughput: 14.07 Mbit/s

95th percentile per-packet one-way delay: 53.144 ms

Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-10-11 01:18:27

End at: 2017-10-11 01:18:57

Below is generated by plot.py at 2017-10-11 03:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.48 Mbit/s

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

Loss rate: 0.01%

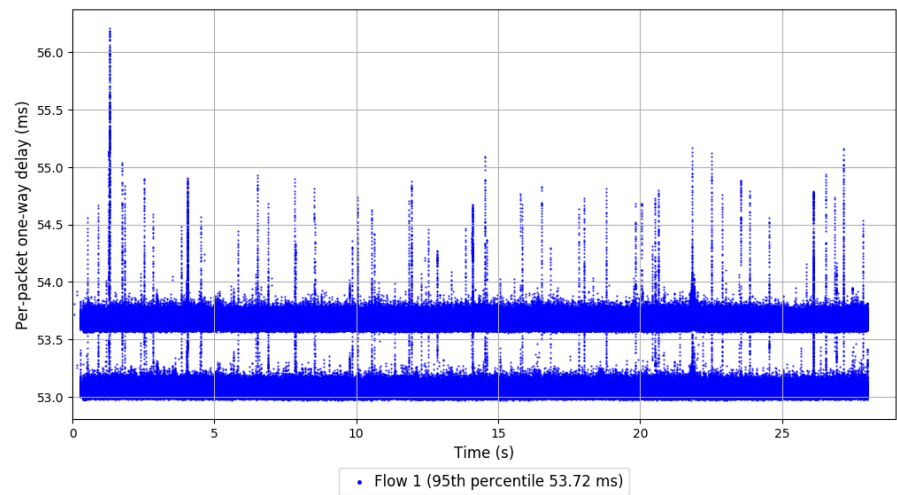
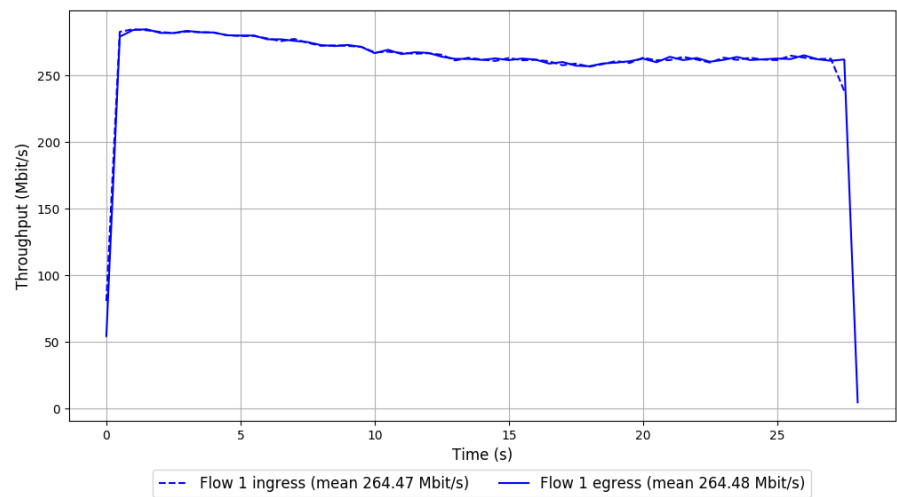
-- Flow 1:

Average throughput: 264.48 Mbit/s

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

Loss rate: 0.01%

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

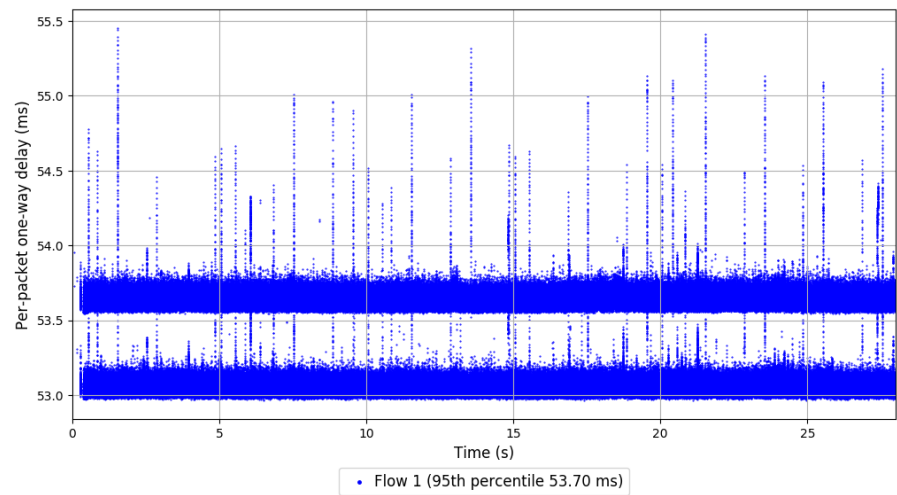
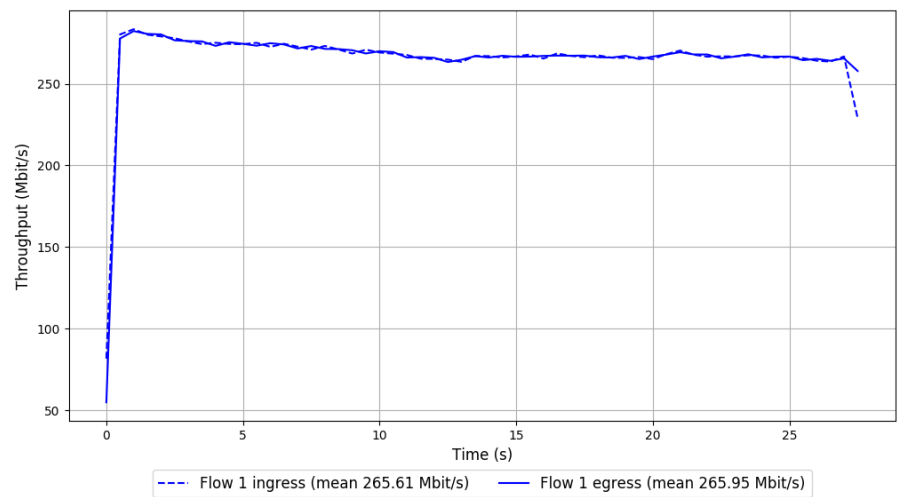


```
Run 6: Statistics of TaoVA-100x

Start at: 2017-10-11 01:29:14
End at: 2017-10-11 01:29:44

# Below is generated by plot.py at 2017-10-11 03:34:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.95 Mbit/s
95th percentile per-packet one-way delay: 53.698 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 265.95 Mbit/s
95th percentile per-packet one-way delay: 53.698 ms
Loss rate: 0.00%
```

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-10-11 01:39:54

End at: 2017-10-11 01:40:24

Below is generated by plot.py at 2017-10-11 03:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.12 Mbit/s

95th percentile per-packet one-way delay: 53.161 ms

Loss rate: 0.01%

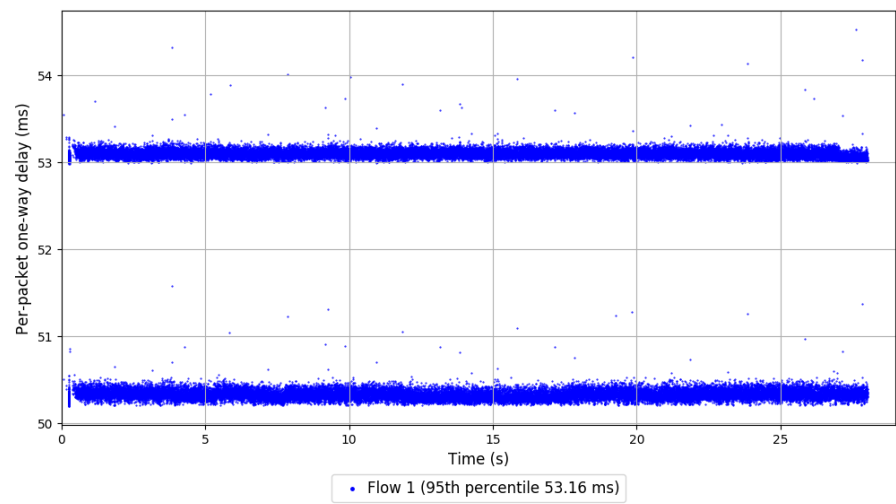
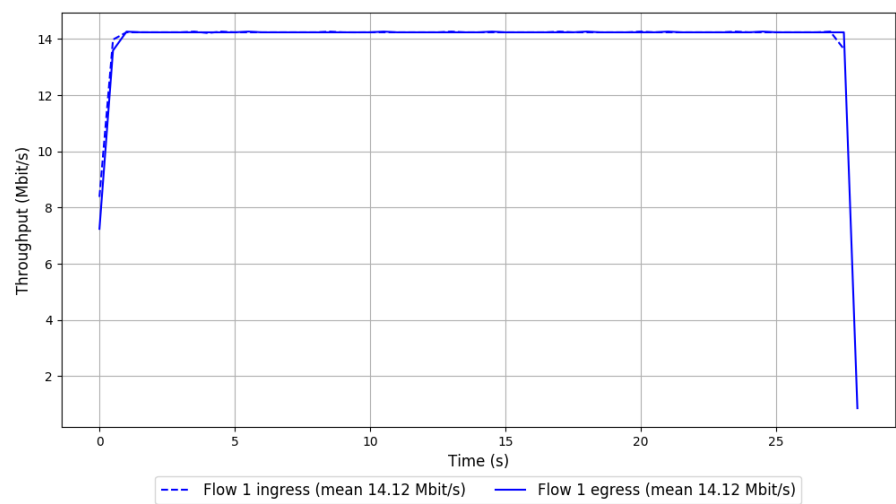
-- Flow 1:

Average throughput: 14.12 Mbit/s

95th percentile per-packet one-way delay: 53.161 ms

Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

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

End at: 2017-10-11 01:50:34

Below is generated by plot.py at 2017-10-11 03:35:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.04 Mbit/s

95th percentile per-packet one-way delay: 53.849 ms

Loss rate: 0.01%

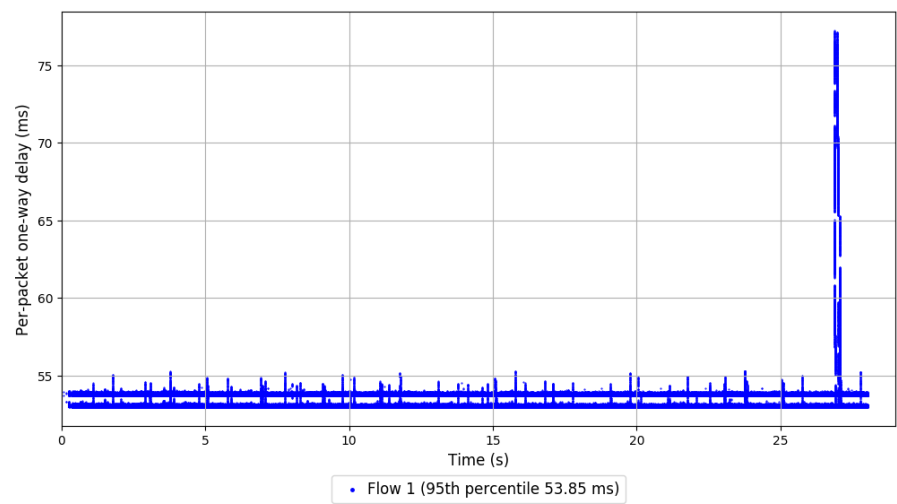
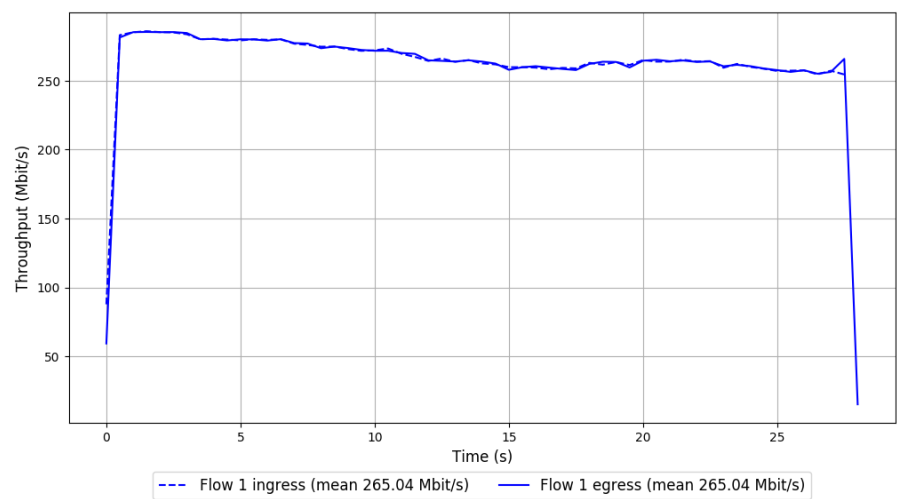
-- Flow 1:

Average throughput: 265.04 Mbit/s

95th percentile per-packet one-way delay: 53.849 ms

Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-10-11 02:00:55

End at: 2017-10-11 02:01:25

Below is generated by plot.py at 2017-10-11 03:35:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.17 Mbit/s

95th percentile per-packet one-way delay: 53.085 ms

Loss rate: 0.01%

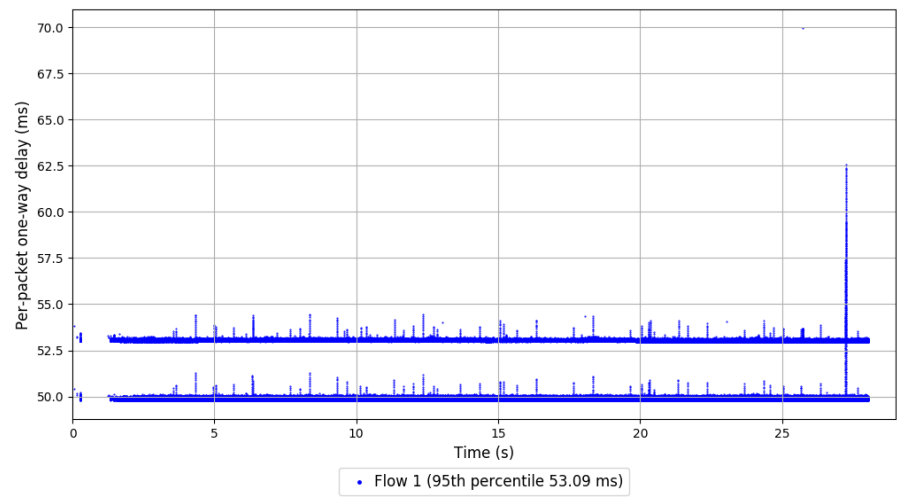
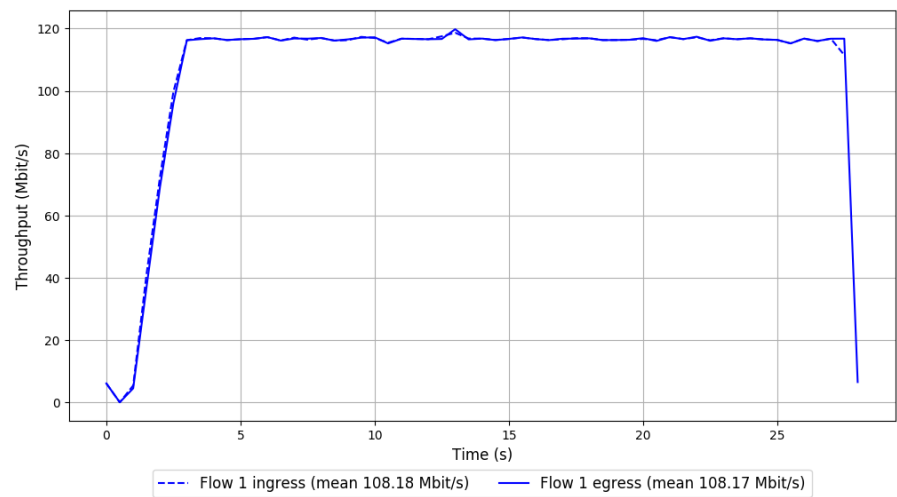
-- Flow 1:

Average throughput: 108.17 Mbit/s

95th percentile per-packet one-way delay: 53.085 ms

Loss rate: 0.01%

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

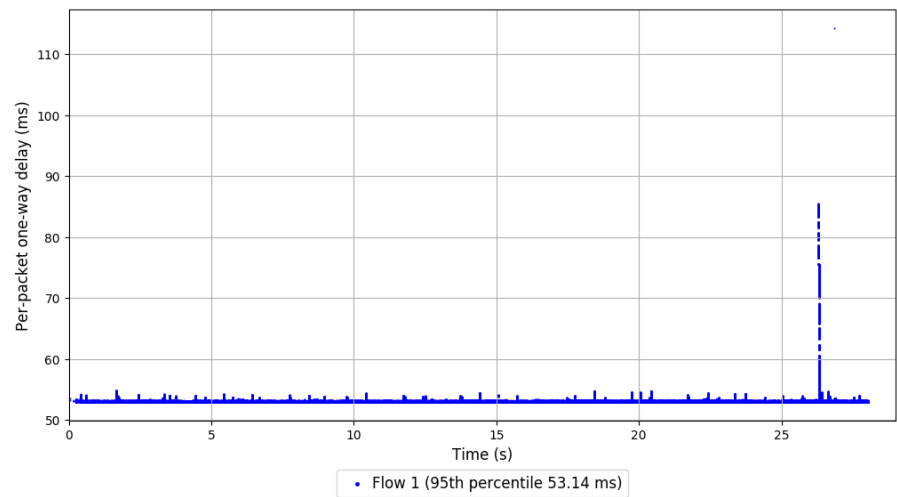
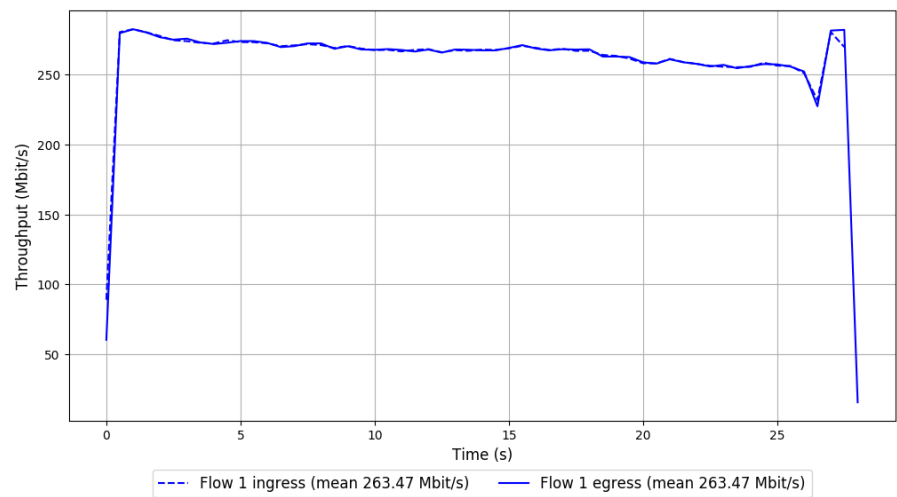


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-10-11 02:11:07
End at: 2017-10-11 02:11:37

# Below is generated by plot.py at 2017-10-11 03:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 263.47 Mbit/s
95th percentile per-packet one-way delay: 53.140 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 263.47 Mbit/s
95th percentile per-packet one-way delay: 53.140 ms
Loss rate: 0.01%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-10-11 00:34:27

End at: 2017-10-11 00:34:57

Below is generated by plot.py at 2017-10-11 03:36:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 54.027 ms

Loss rate: 0.00%

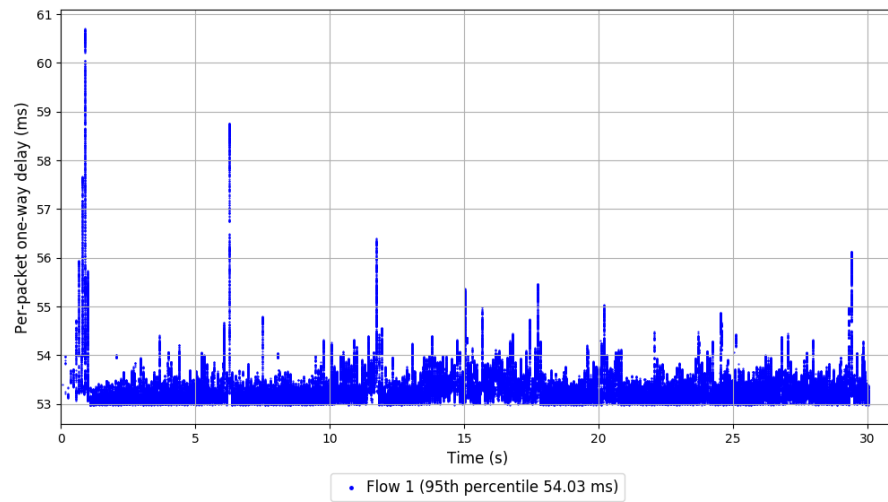
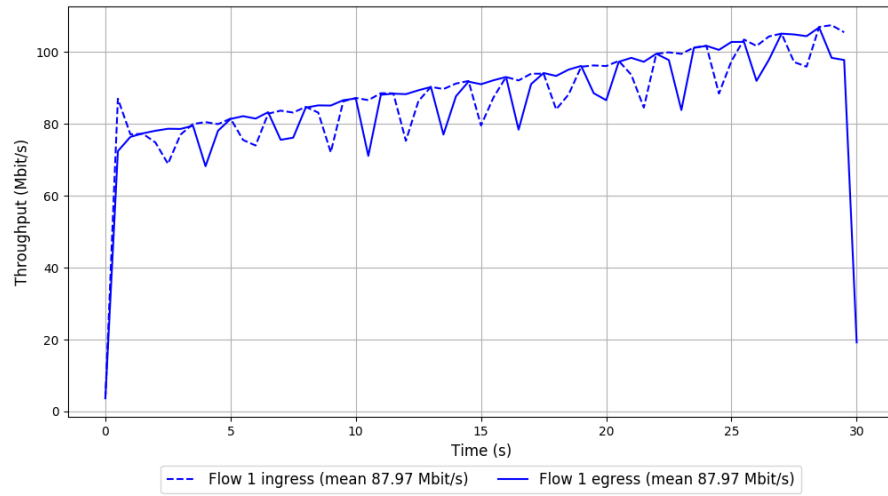
-- Flow 1:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 54.027 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-10-11 00:45:23

End at: 2017-10-11 00:45:53

Below is generated by plot.py at 2017-10-11 03:36:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.10 Mbit/s

95th percentile per-packet one-way delay: 55.629 ms

Loss rate: 0.00%

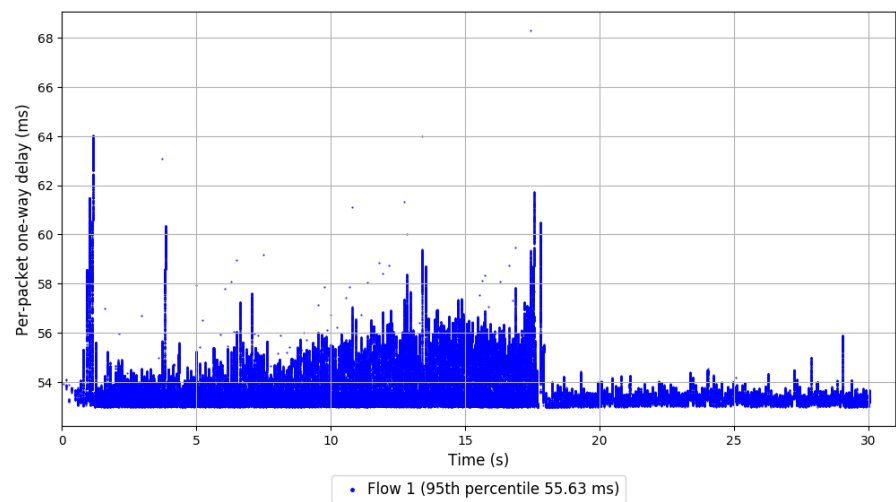
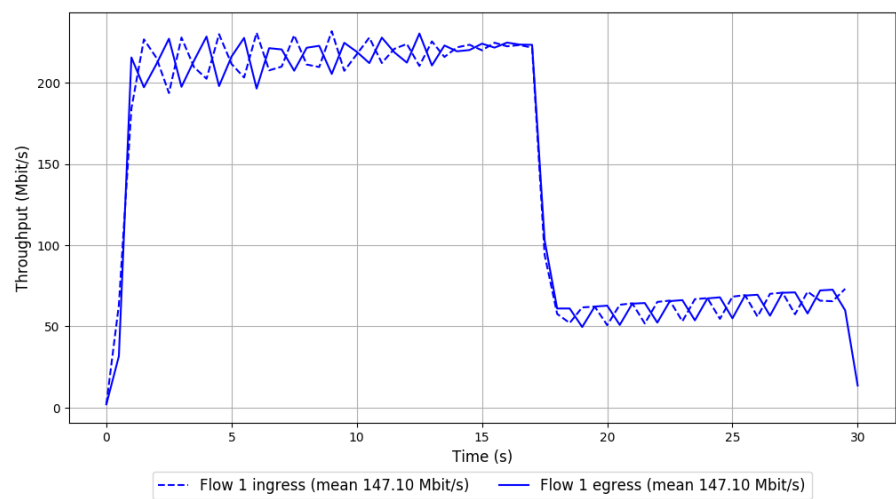
-- Flow 1:

Average throughput: 147.10 Mbit/s

95th percentile per-packet one-way delay: 55.629 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-10-11 00:55:40

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

Below is generated by plot.py at 2017-10-11 03:36:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 53.662 ms

Loss rate: 0.00%

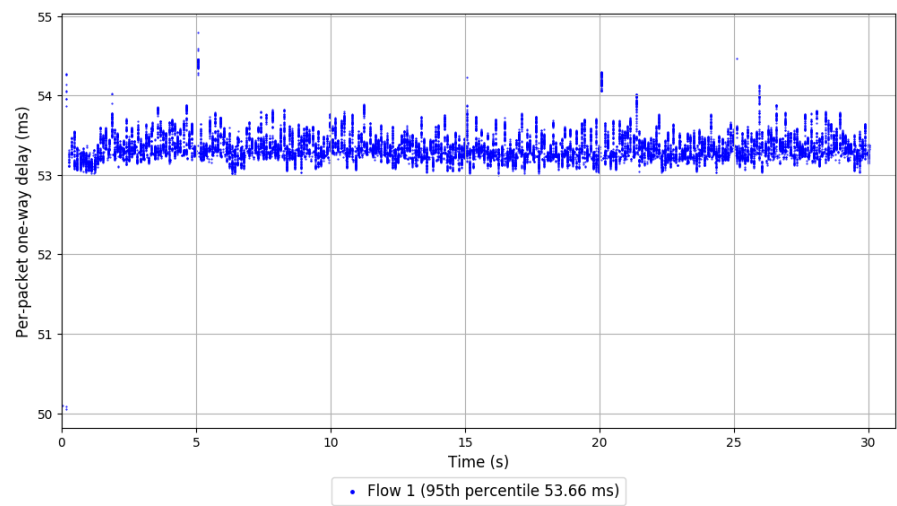
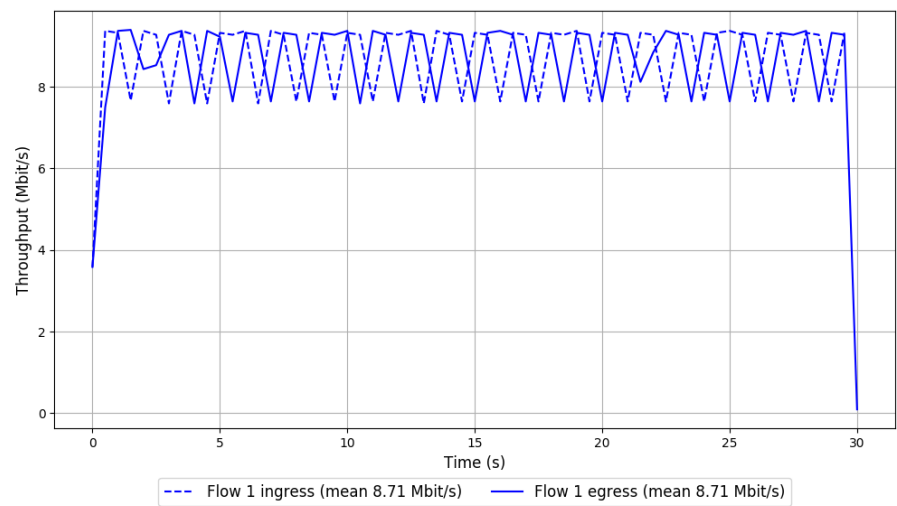
-- Flow 1:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 53.662 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-10-11 01:06:25

End at: 2017-10-11 01:06:55

Below is generated by plot.py at 2017-10-11 03:36:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.14 Mbit/s

95th percentile per-packet one-way delay: 53.951 ms

Loss rate: 0.00%

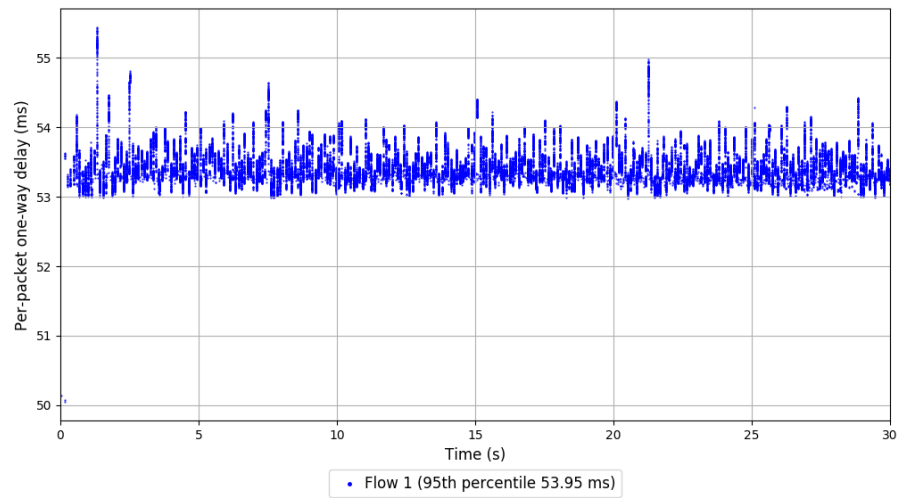
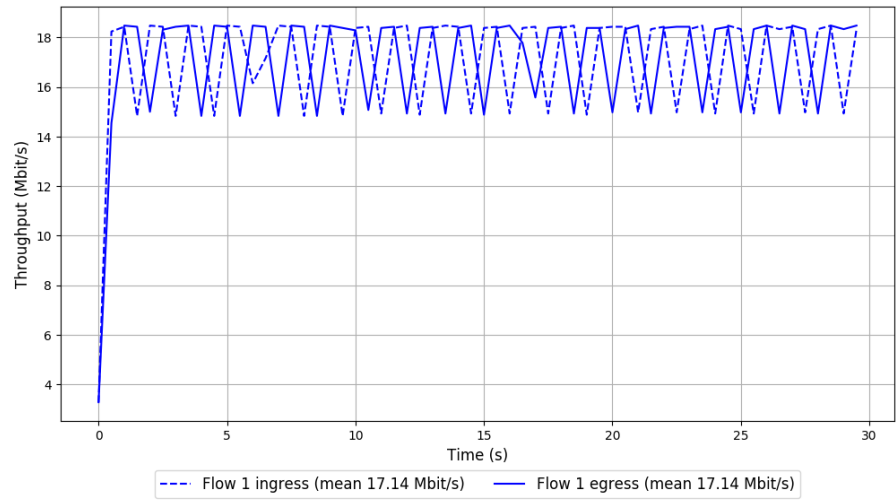
-- Flow 1:

Average throughput: 17.14 Mbit/s

95th percentile per-packet one-way delay: 53.951 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-10-11 01:17:07

End at: 2017-10-11 01:17:37

Below is generated by plot.py at 2017-10-11 03:36:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 53.665 ms

Loss rate: 0.02%

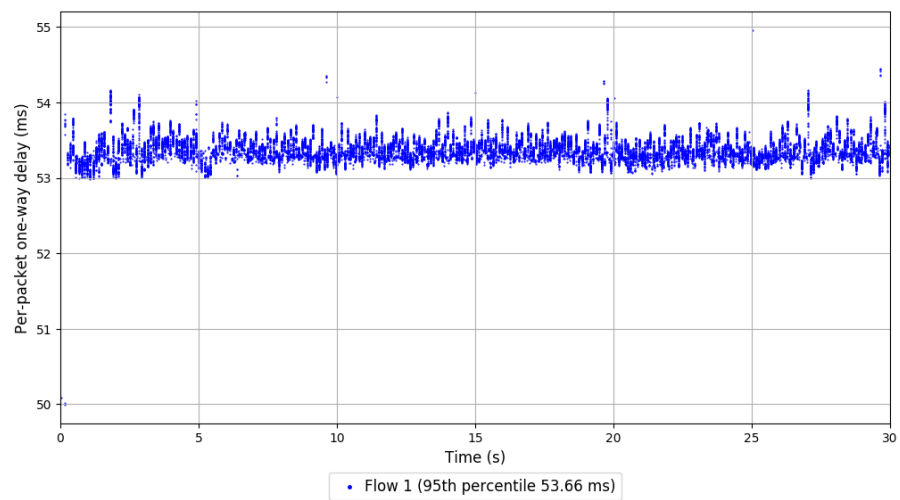
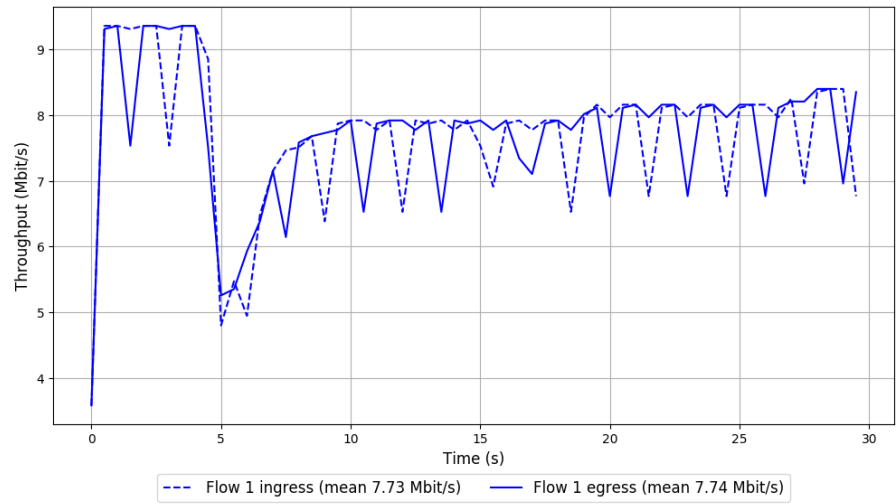
-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 53.665 ms

Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-10-11 01:27:54

End at: 2017-10-11 01:28:24

Below is generated by plot.py at 2017-10-11 03:36:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 53.698 ms

Loss rate: 0.00%

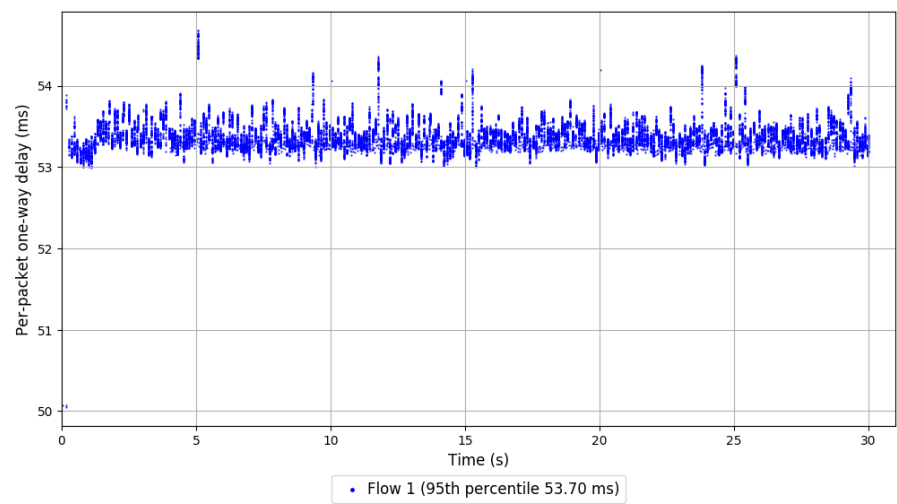
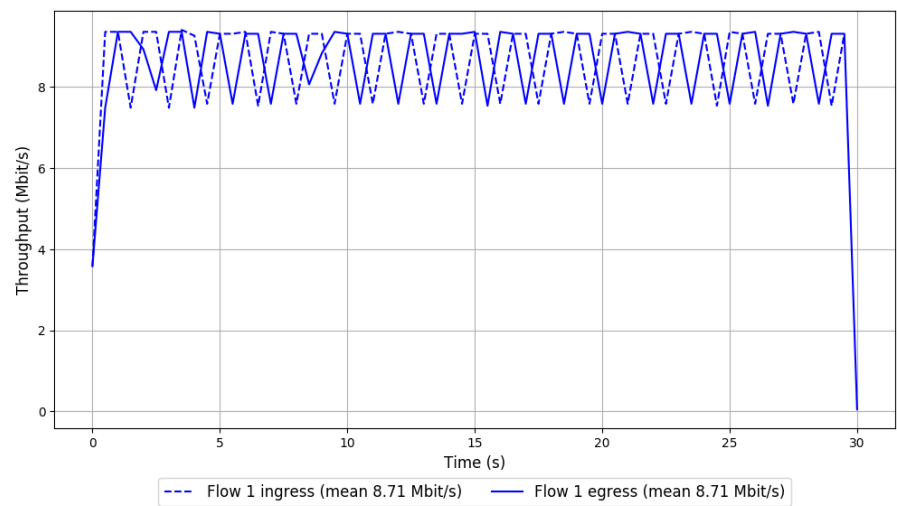
-- Flow 1:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 53.698 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-10-11 01:38:31

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

Below is generated by plot.py at 2017-10-11 03:36:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.46 Mbit/s

95th percentile per-packet one-way delay: 53.905 ms

Loss rate: 0.00%

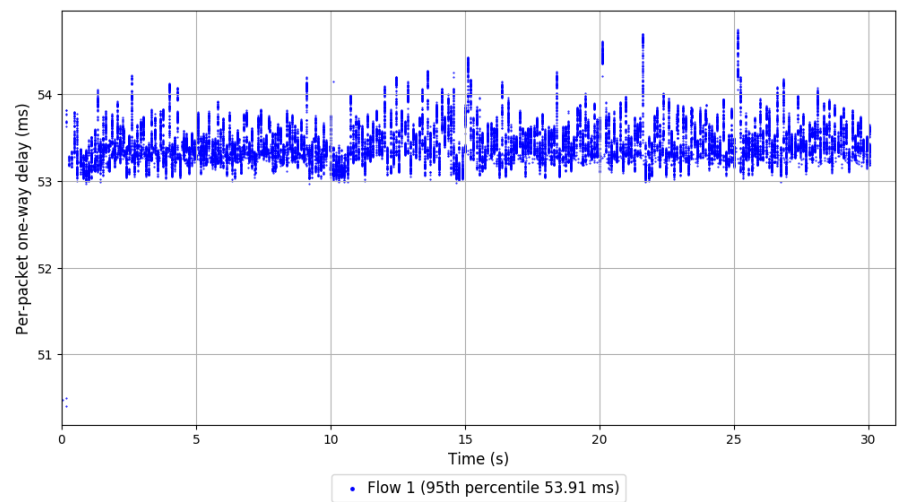
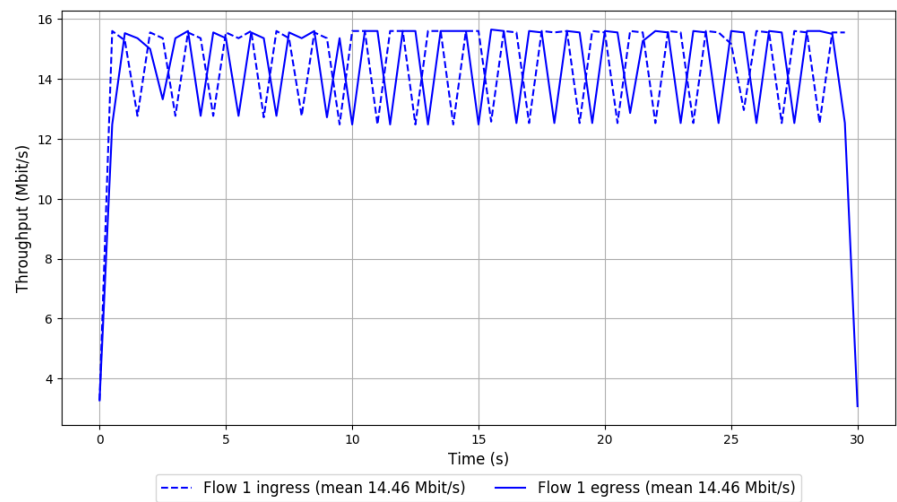
-- Flow 1:

Average throughput: 14.46 Mbit/s

95th percentile per-packet one-way delay: 53.905 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-10-11 01:48:41

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

Below is generated by plot.py at 2017-10-11 03:36:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.47 Mbit/s

95th percentile per-packet one-way delay: 53.805 ms

Loss rate: 0.00%

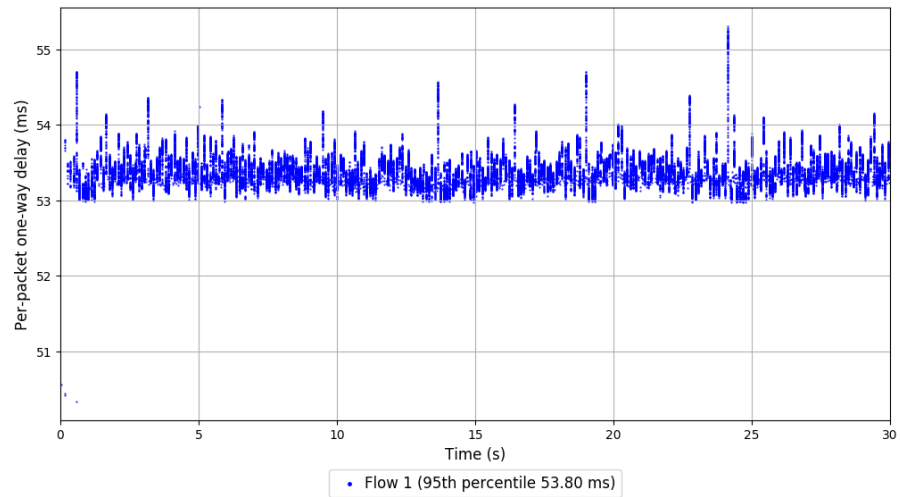
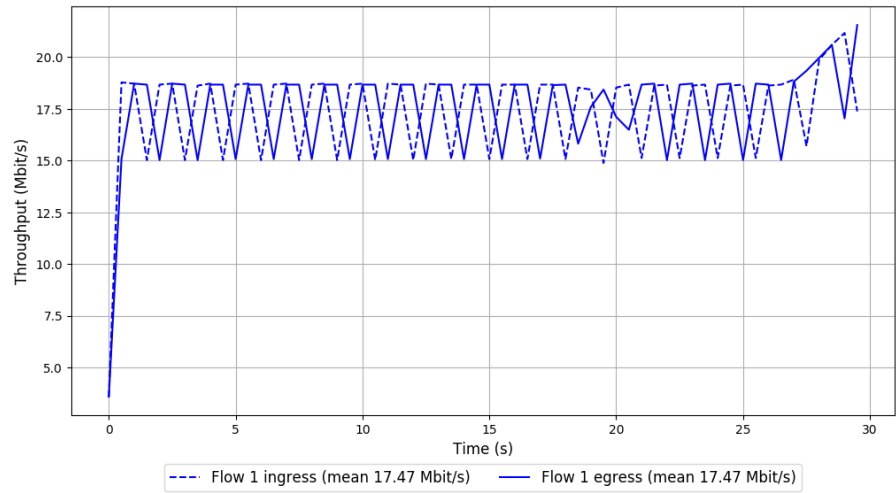
-- Flow 1:

Average throughput: 17.47 Mbit/s

95th percentile per-packet one-way delay: 53.805 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-10-11 01:59:32

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

Below is generated by plot.py at 2017-10-11 03:36:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.87 Mbit/s

95th percentile per-packet one-way delay: 53.713 ms

Loss rate: 0.00%

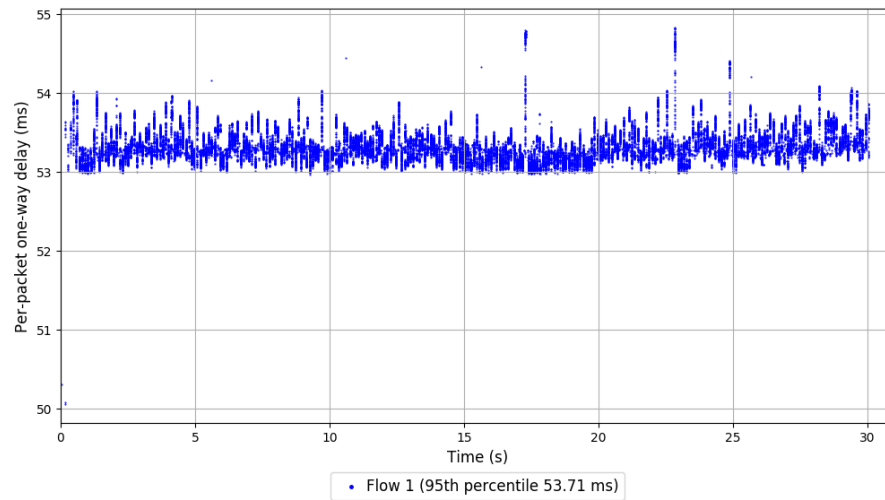
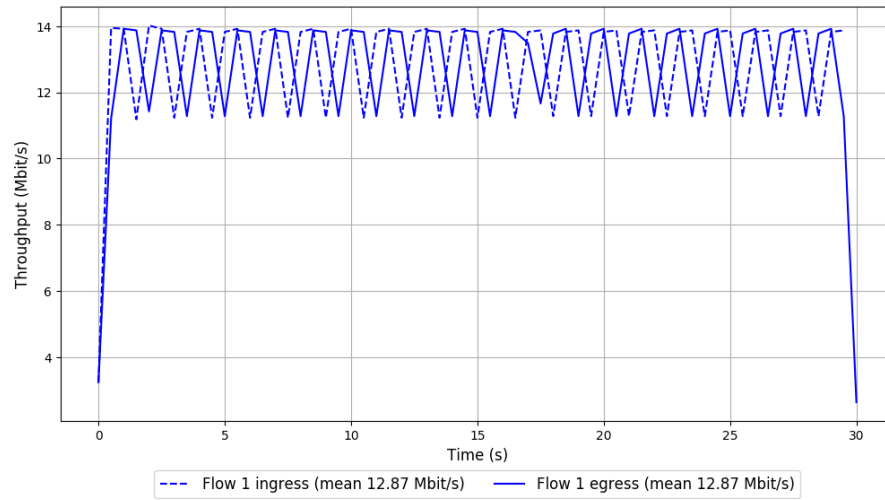
-- Flow 1:

Average throughput: 12.87 Mbit/s

95th percentile per-packet one-way delay: 53.713 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-10-11 02:09:44

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

Below is generated by plot.py at 2017-10-11 03:36:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.90 Mbit/s

95th percentile per-packet one-way delay: 53.953 ms

Loss rate: 0.00%

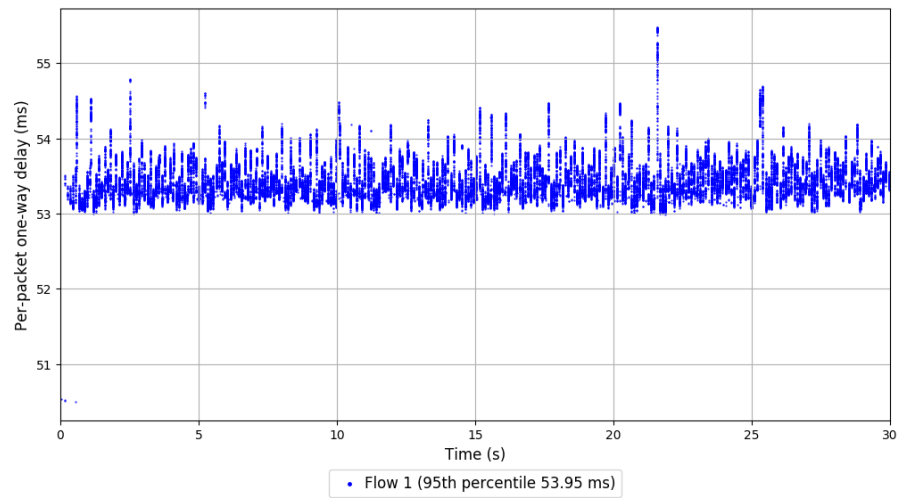
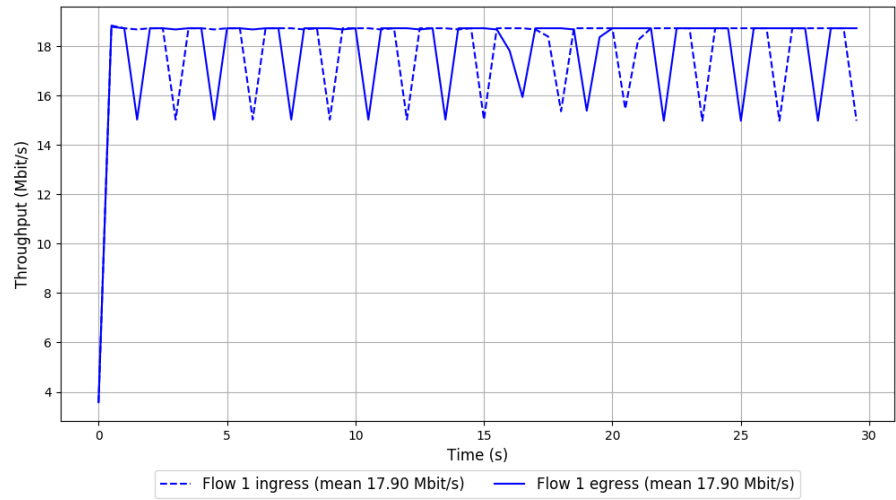
-- Flow 1:

Average throughput: 17.90 Mbit/s

95th percentile per-packet one-way delay: 53.953 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-10-11 00:32:55

End at: 2017-10-11 00:33:25

Below is generated by plot.py at 2017-10-11 03:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.37 Mbit/s

95th percentile per-packet one-way delay: 76.170 ms

Loss rate: 1.58%

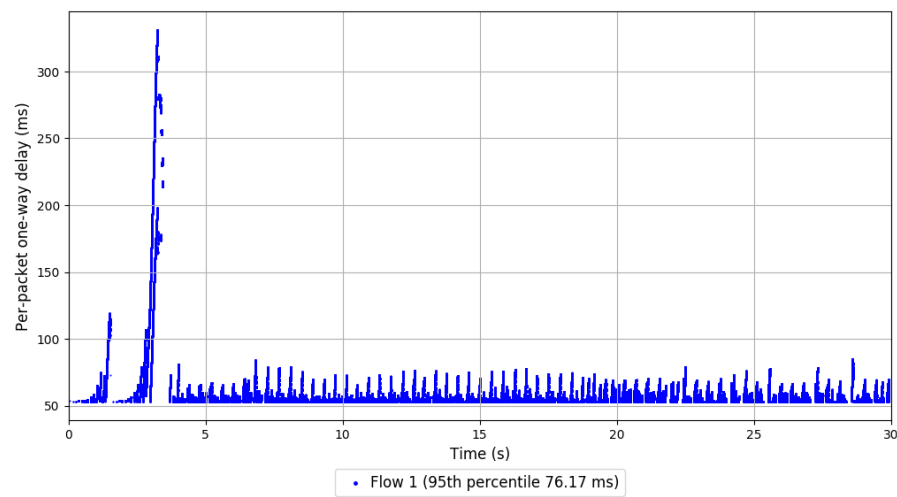
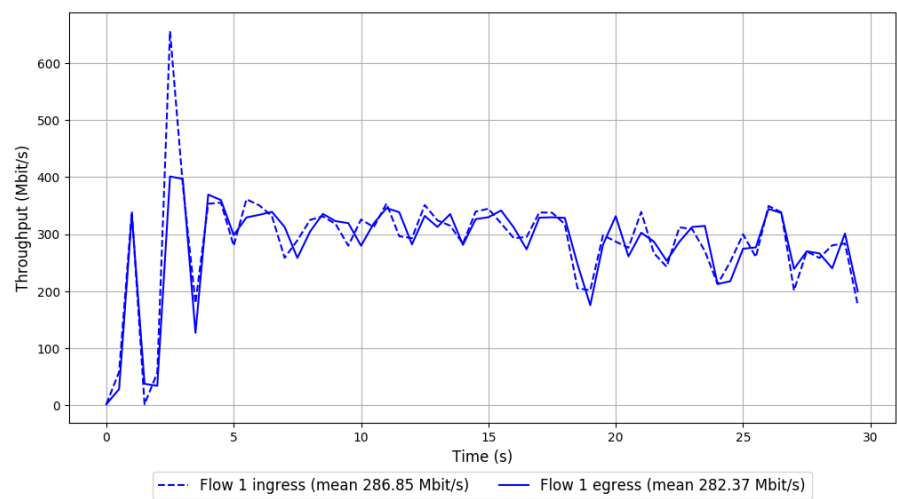
-- Flow 1:

Average throughput: 282.37 Mbit/s

95th percentile per-packet one-way delay: 76.170 ms

Loss rate: 1.58%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-10-11 00:43:53

End at: 2017-10-11 00:44:23

Below is generated by plot.py at 2017-10-11 03:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.96 Mbit/s

95th percentile per-packet one-way delay: 85.815 ms

Loss rate: 2.22%

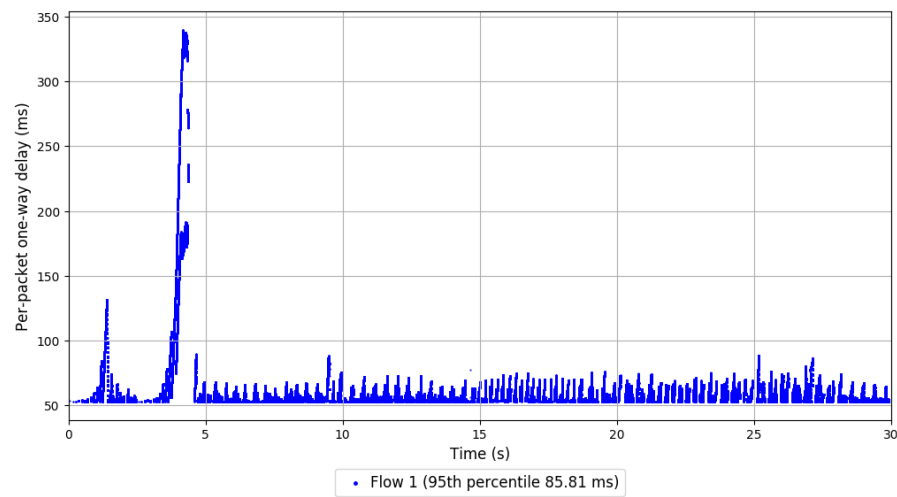
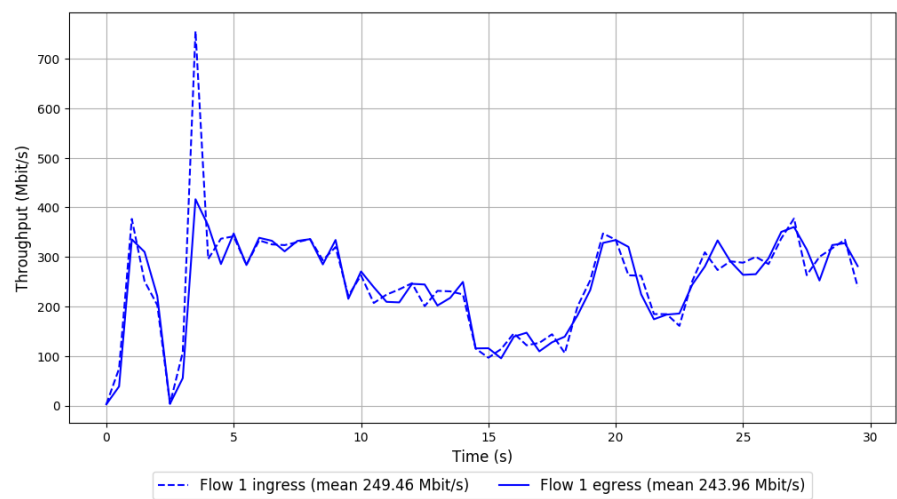
-- Flow 1:

Average throughput: 243.96 Mbit/s

95th percentile per-packet one-way delay: 85.815 ms

Loss rate: 2.22%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-10-11 00:54:06

End at: 2017-10-11 00:54:36

Below is generated by plot.py at 2017-10-11 03:39:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.96 Mbit/s

95th percentile per-packet one-way delay: 203.813 ms

Loss rate: 4.90%

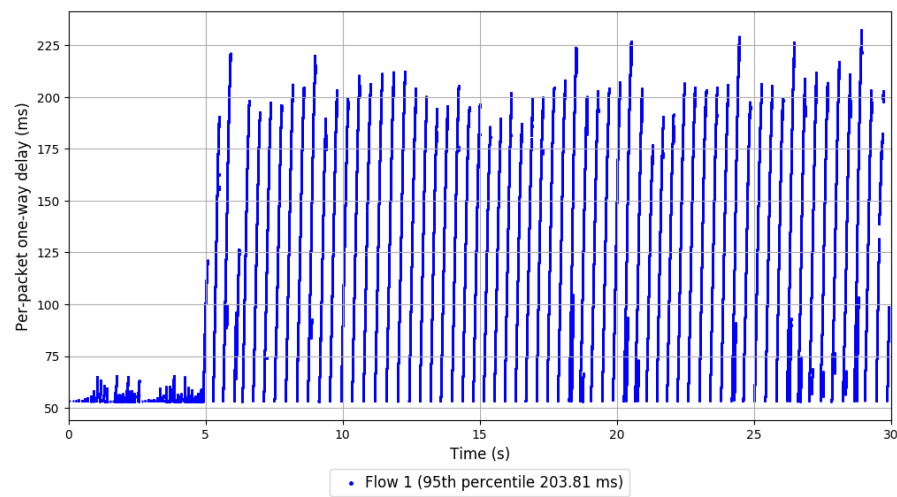
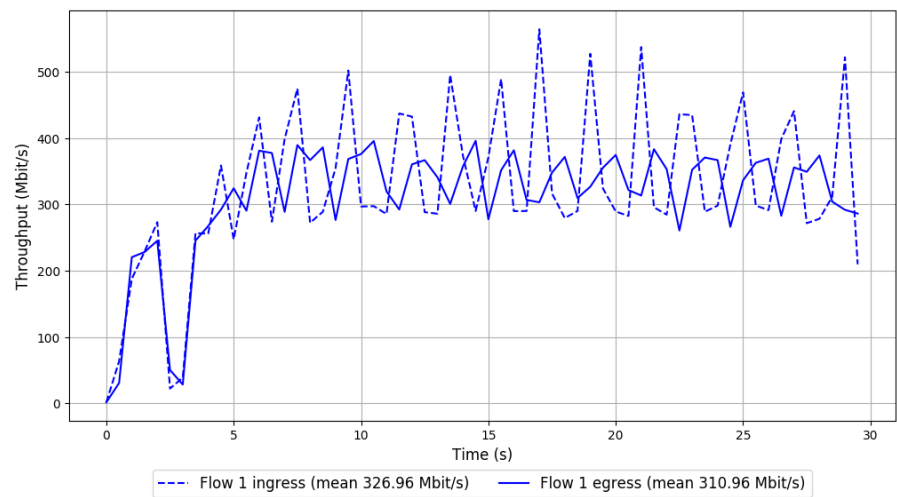
-- Flow 1:

Average throughput: 310.96 Mbit/s

95th percentile per-packet one-way delay: 203.813 ms

Loss rate: 4.90%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-10-11 01:04:52

End at: 2017-10-11 01:05:22

Below is generated by plot.py at 2017-10-11 03:39:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.74 Mbit/s

95th percentile per-packet one-way delay: 85.970 ms

Loss rate: 0.02%

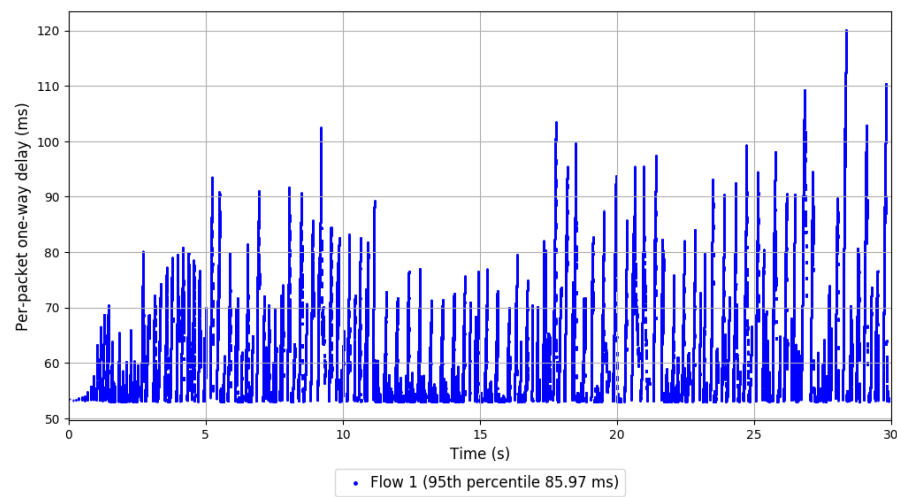
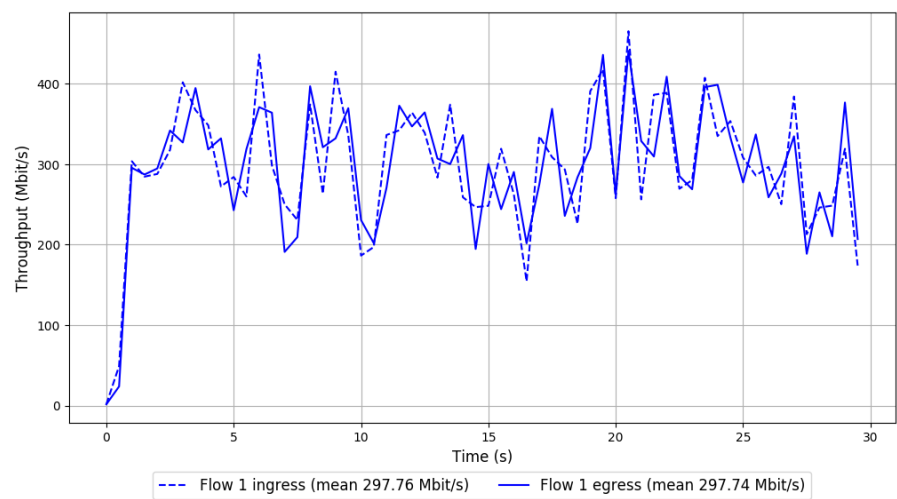
-- Flow 1:

Average throughput: 297.74 Mbit/s

95th percentile per-packet one-way delay: 85.970 ms

Loss rate: 0.02%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-10-11 01:15:31

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

Below is generated by plot.py at 2017-10-11 03:40:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.58 Mbit/s

95th percentile per-packet one-way delay: 219.270 ms

Loss rate: 4.45%

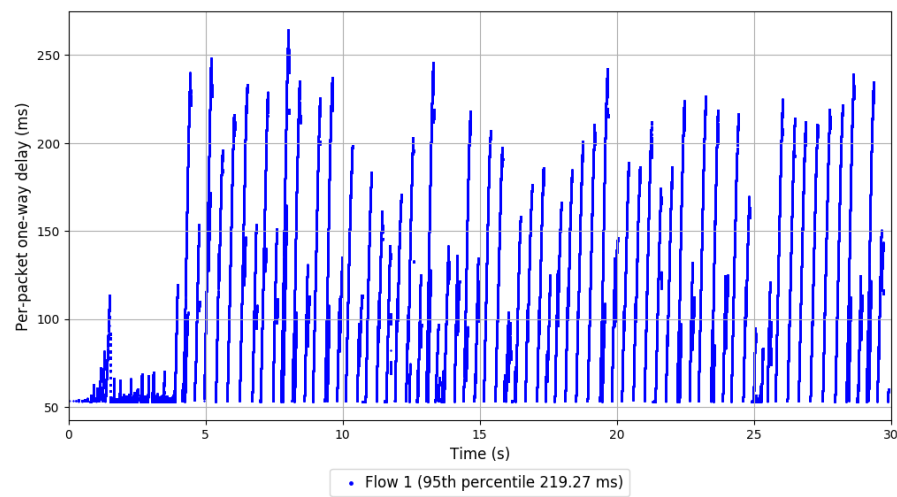
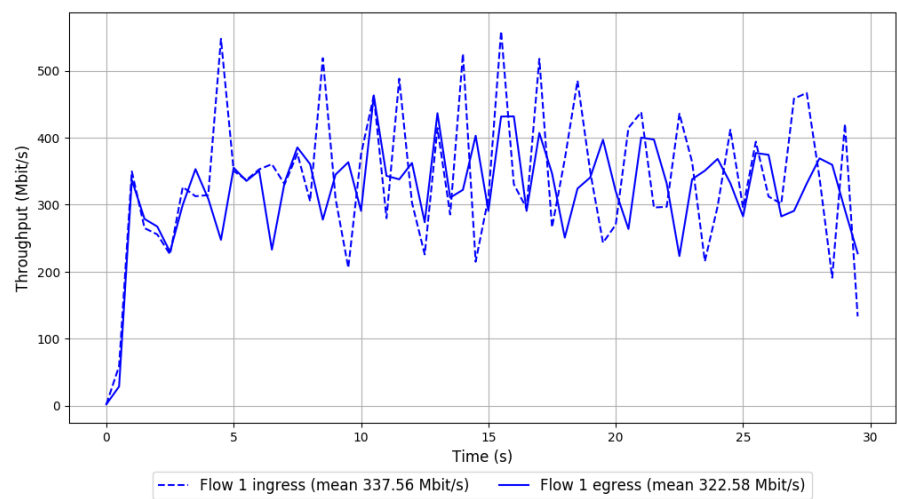
-- Flow 1:

Average throughput: 322.58 Mbit/s

95th percentile per-packet one-way delay: 219.270 ms

Loss rate: 4.45%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

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

End at: 2017-10-11 01:26:55

Below is generated by plot.py at 2017-10-11 03:40:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.68 Mbit/s

95th percentile per-packet one-way delay: 66.998 ms

Loss rate: 0.00%

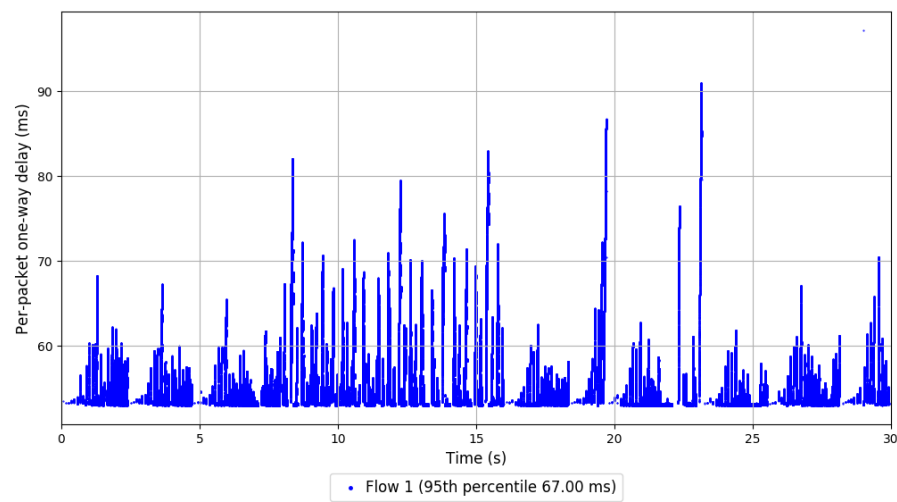
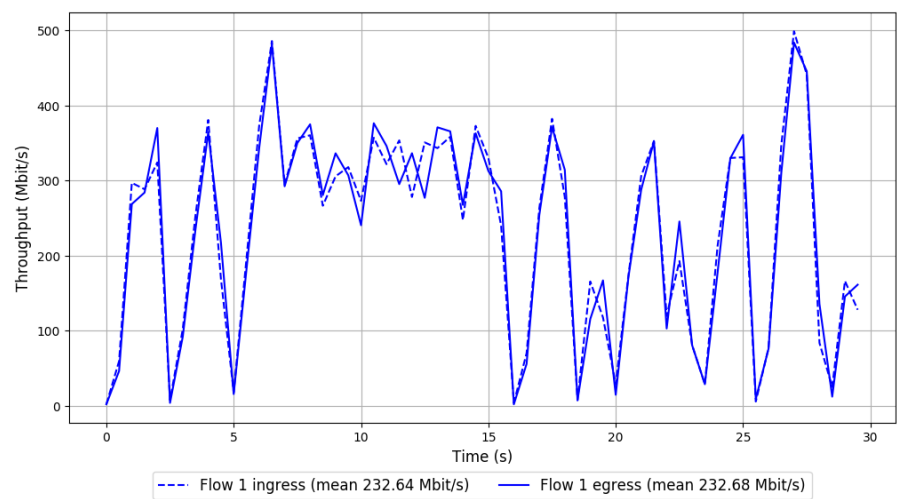
-- Flow 1:

Average throughput: 232.68 Mbit/s

95th percentile per-packet one-way delay: 66.998 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-10-11 01:37:02

End at: 2017-10-11 01:37:32

Below is generated by plot.py at 2017-10-11 03:40:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.61 Mbit/s

95th percentile per-packet one-way delay: 85.063 ms

Loss rate: 0.67%

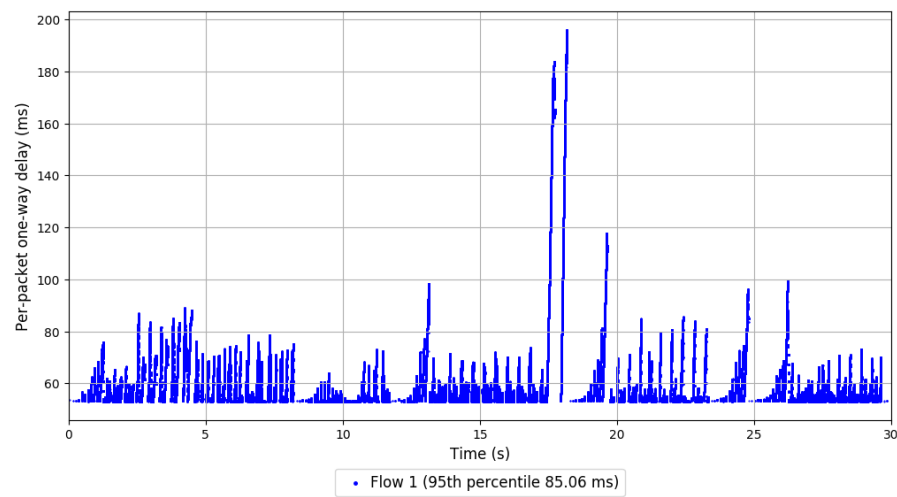
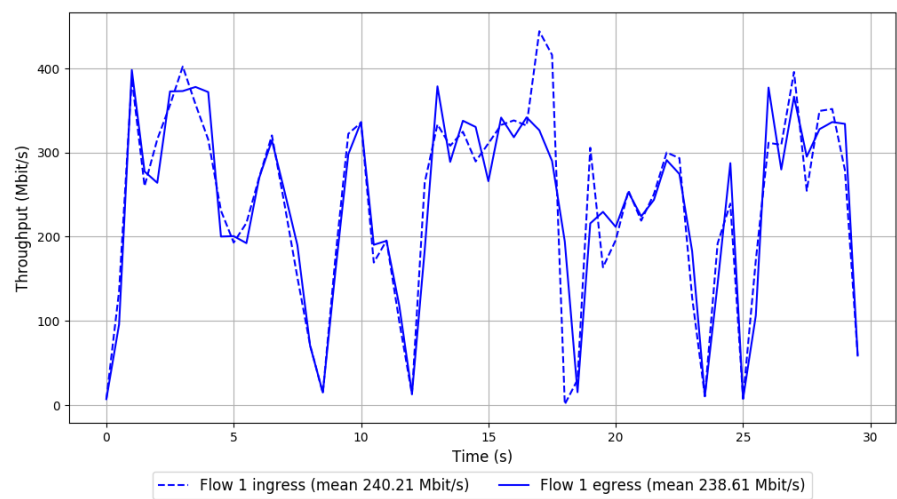
-- Flow 1:

Average throughput: 238.61 Mbit/s

95th percentile per-packet one-way delay: 85.063 ms

Loss rate: 0.67%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-10-11 01:47:06

End at: 2017-10-11 01:47:36

Below is generated by plot.py at 2017-10-11 03:42:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.73 Mbit/s

95th percentile per-packet one-way delay: 191.497 ms

Loss rate: 0.52%

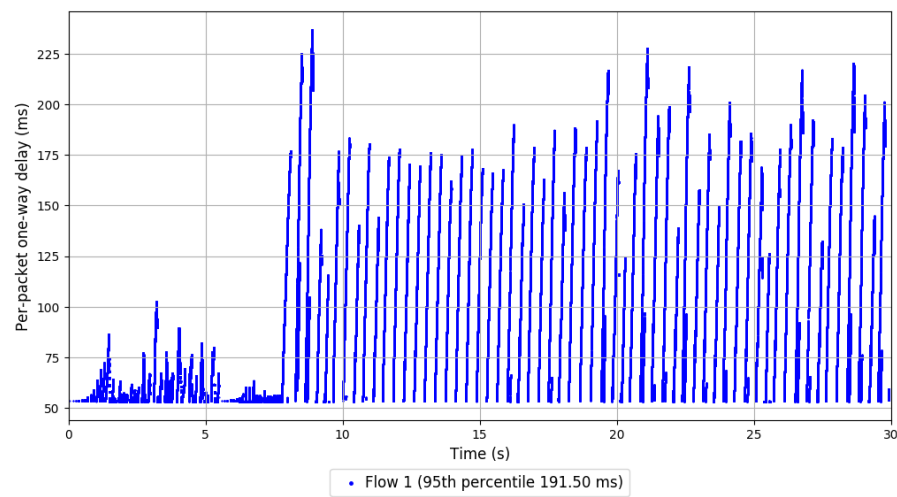
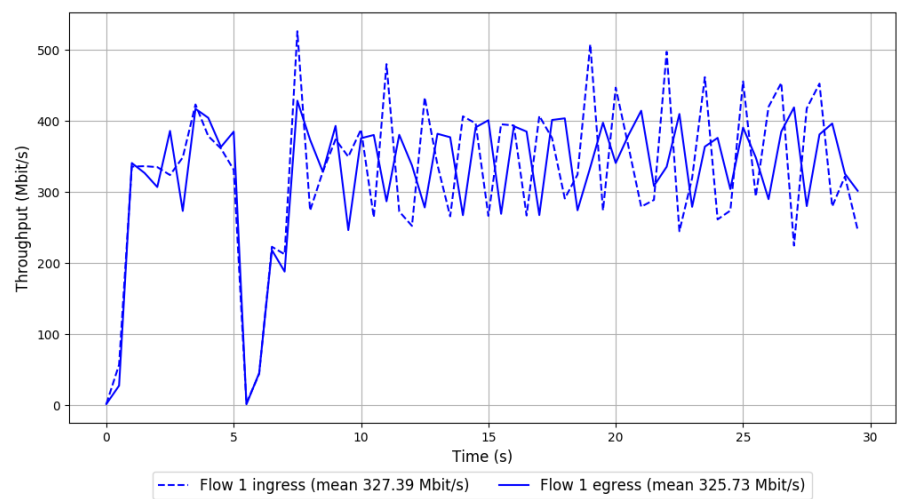
-- Flow 1:

Average throughput: 325.73 Mbit/s

95th percentile per-packet one-way delay: 191.497 ms

Loss rate: 0.52%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

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

End at: 2017-10-11 01:58:31

Below is generated by plot.py at 2017-10-11 03:42:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.62 Mbit/s

95th percentile per-packet one-way delay: 90.295 ms

Loss rate: 0.01%

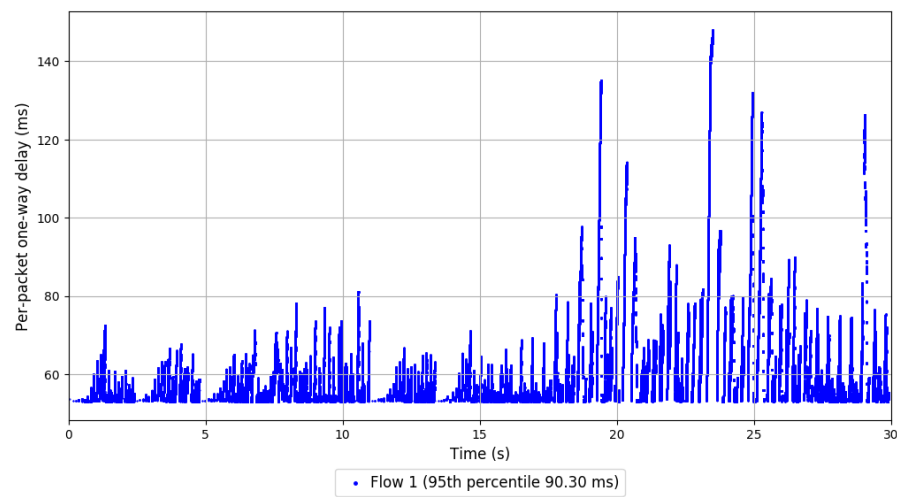
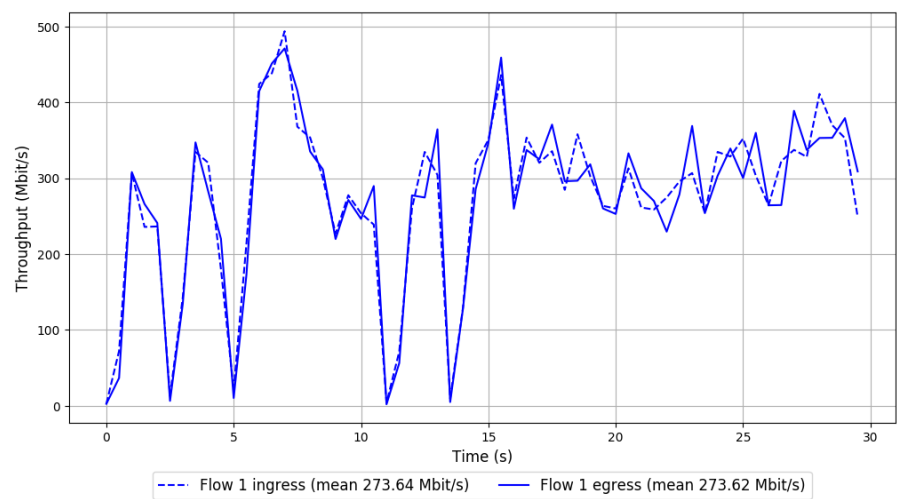
-- Flow 1:

Average throughput: 273.62 Mbit/s

95th percentile per-packet one-way delay: 90.295 ms

Loss rate: 0.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-10-11 02:08:14

End at: 2017-10-11 02:08:44

Below is generated by plot.py at 2017-10-11 03:42:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.50 Mbit/s

95th percentile per-packet one-way delay: 86.431 ms

Loss rate: 0.03%

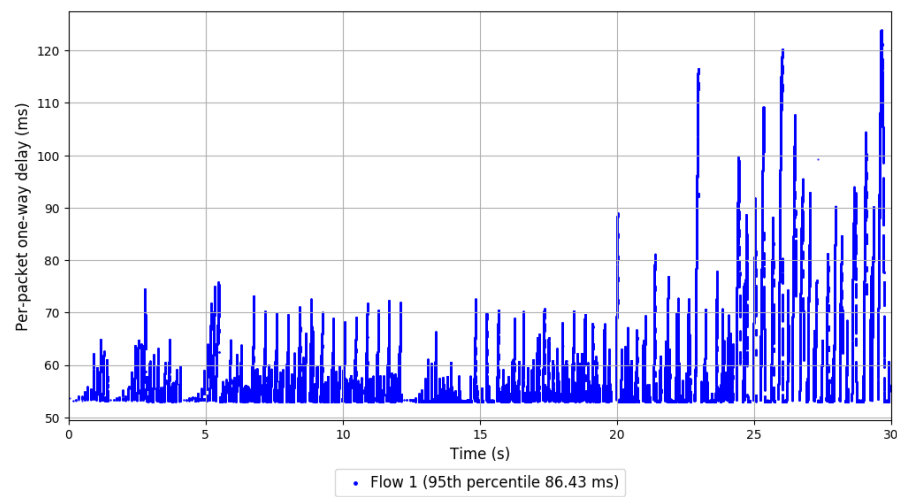
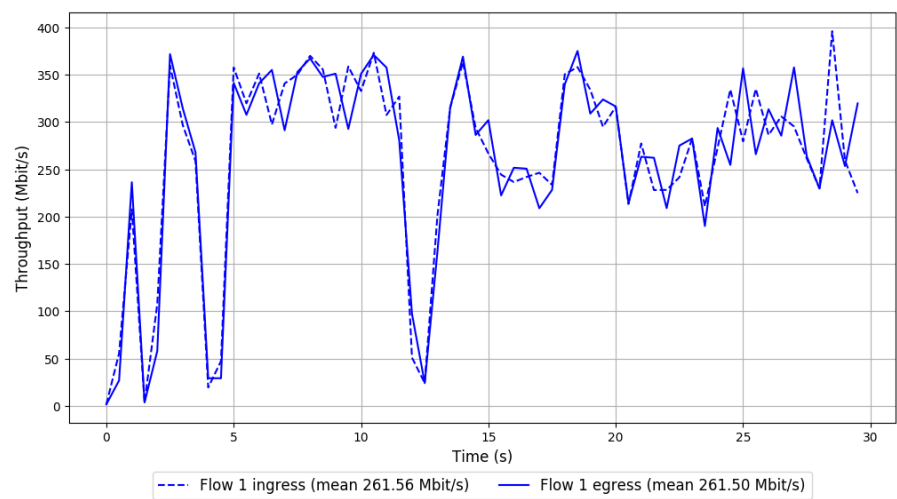
-- Flow 1:

Average throughput: 261.50 Mbit/s

95th percentile per-packet one-way delay: 86.431 ms

Loss rate: 0.03%

Run 10: Report of Verus — Data Link

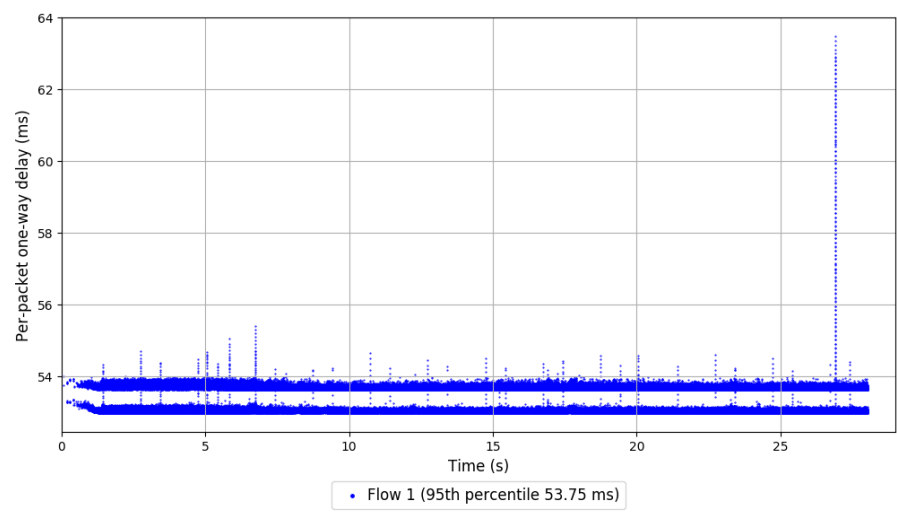
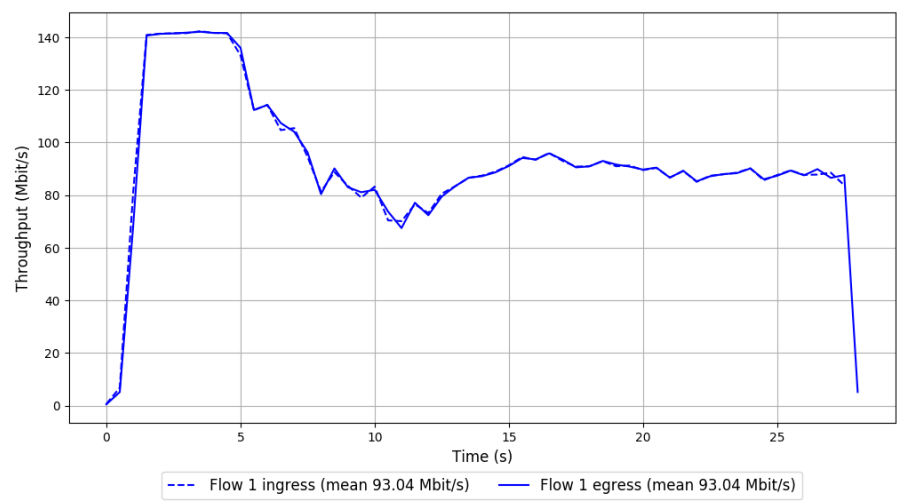


```
Run 1: Statistics of Copa

Start at: 2017-10-11 00:35:08
End at: 2017-10-11 00:35:38

# Below is generated by plot.py at 2017-10-11 03:42:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 53.753 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 53.753 ms
Loss rate: 0.01%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-10-11 00:46:07

End at: 2017-10-11 00:46:37

Below is generated by plot.py at 2017-10-11 03:42:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.99 Mbit/s

95th percentile per-packet one-way delay: 53.104 ms

Loss rate: 0.00%

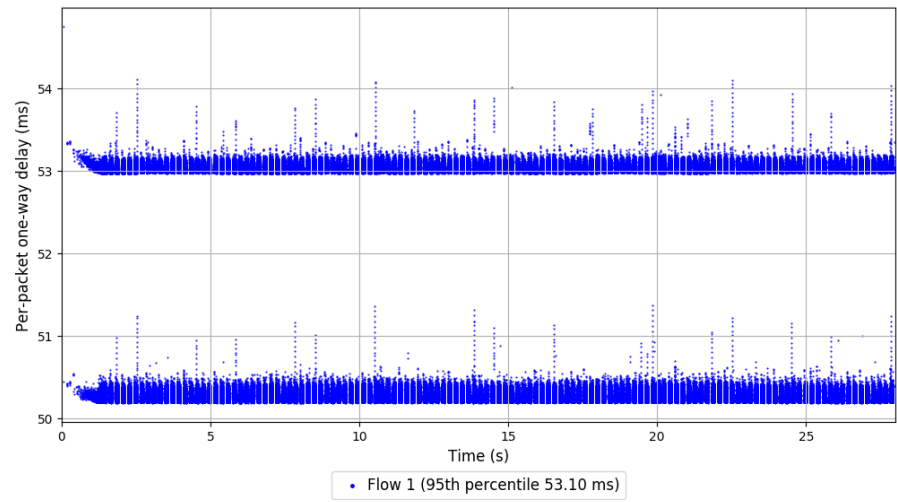
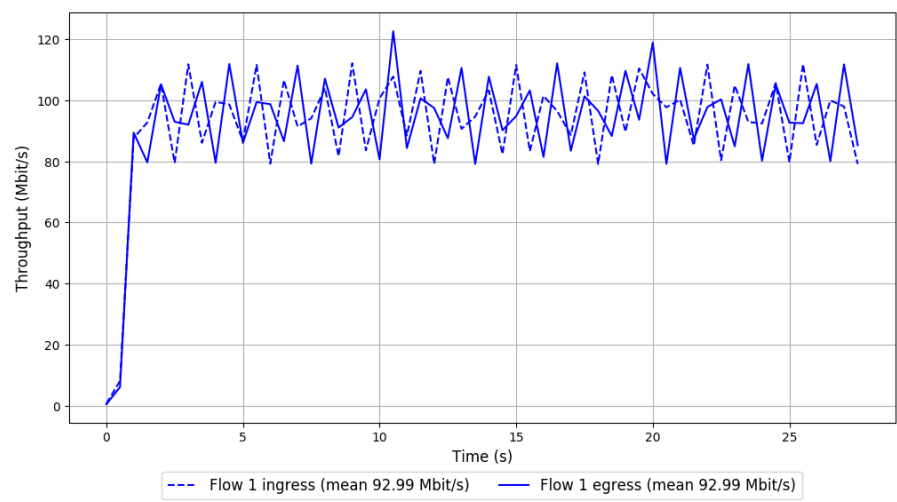
-- Flow 1:

Average throughput: 92.99 Mbit/s

95th percentile per-packet one-way delay: 53.104 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-10-11 00:56:18

End at: 2017-10-11 00:56:48

Below is generated by plot.py at 2017-10-11 03:42:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 53.104 ms

Loss rate: 0.01%

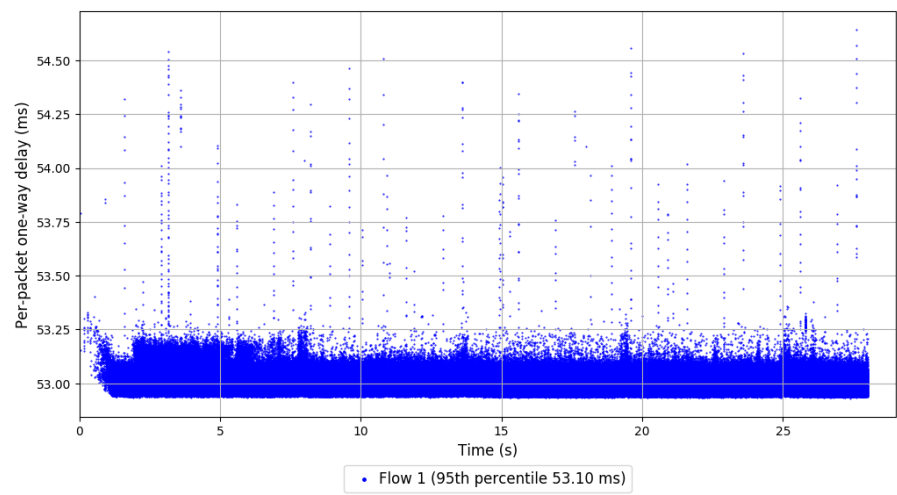
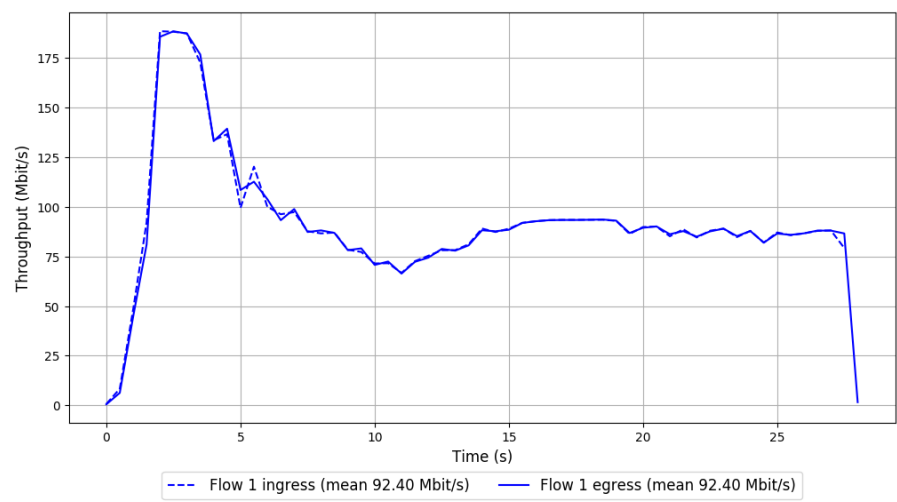
-- Flow 1:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 53.104 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-10-11 01:07:03

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

Below is generated by plot.py at 2017-10-11 03:42:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.53 Mbit/s

95th percentile per-packet one-way delay: 53.112 ms

Loss rate: 0.01%

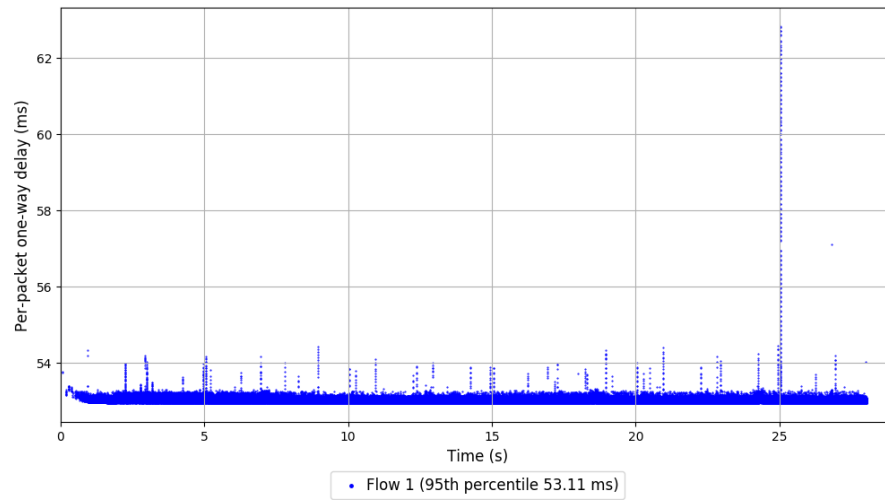
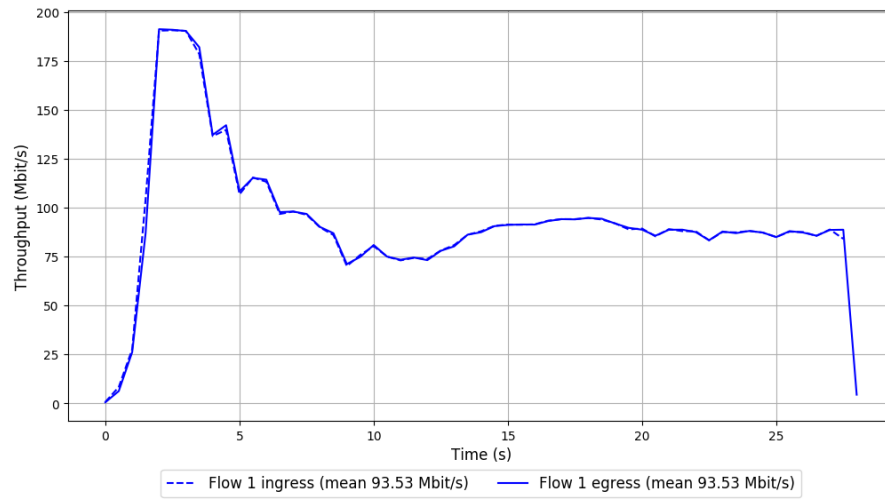
-- Flow 1:

Average throughput: 93.53 Mbit/s

95th percentile per-packet one-way delay: 53.112 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-10-11 01:17:44

End at: 2017-10-11 01:18:14

Below is generated by plot.py at 2017-10-11 03:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.83 Mbit/s

95th percentile per-packet one-way delay: 53.106 ms

Loss rate: 0.01%

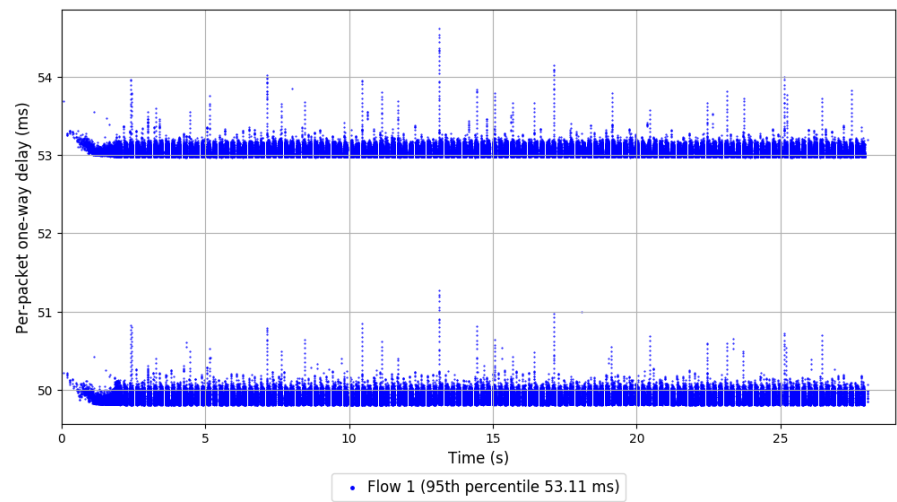
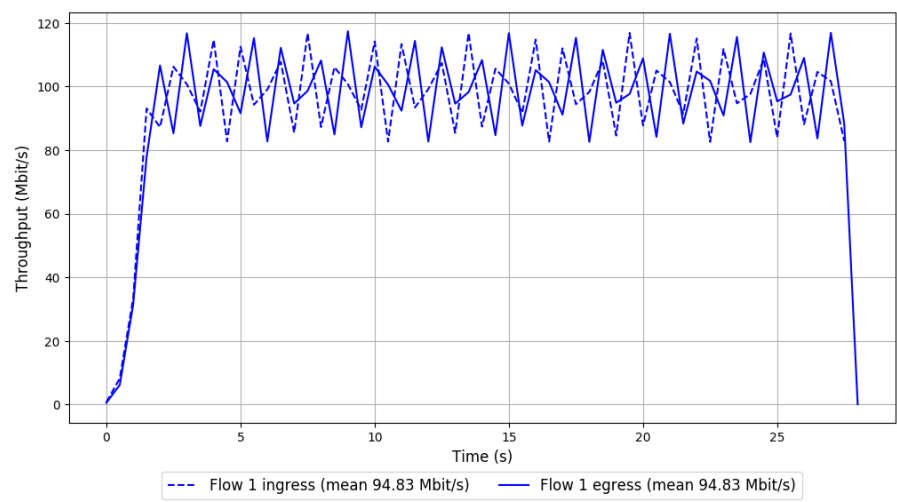
-- Flow 1:

Average throughput: 94.83 Mbit/s

95th percentile per-packet one-way delay: 53.106 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-10-11 01:28:31

End at: 2017-10-11 01:29:02

Below is generated by plot.py at 2017-10-11 03:44:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 53.102 ms

Loss rate: 0.02%

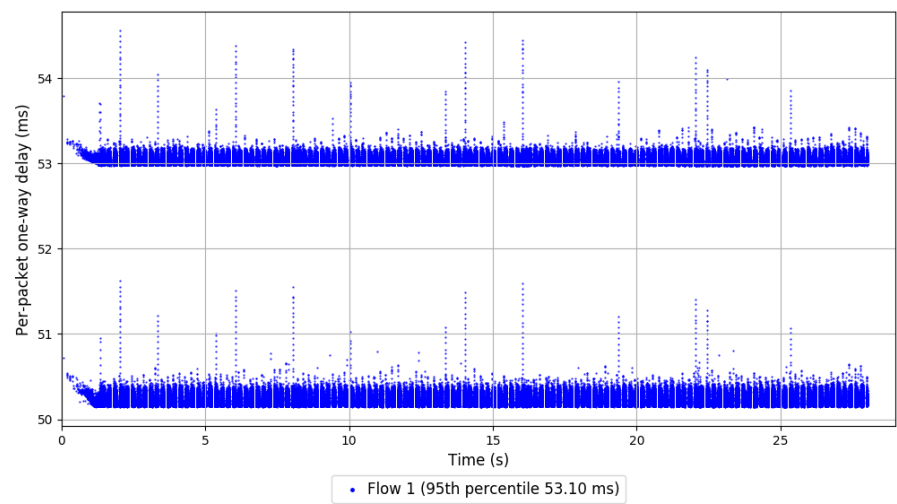
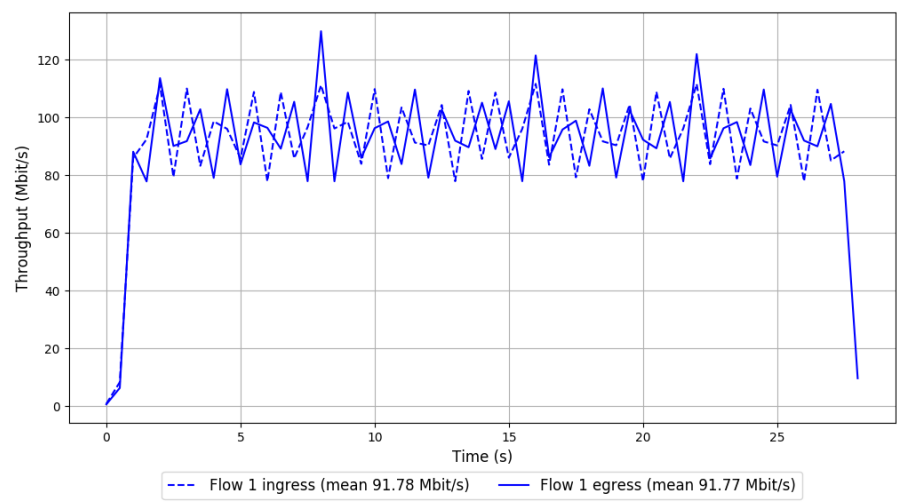
-- Flow 1:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 53.102 ms

Loss rate: 0.02%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-10-11 01:39:09

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

Below is generated by plot.py at 2017-10-11 03:44:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.21 Mbit/s

95th percentile per-packet one-way delay: 53.105 ms

Loss rate: 0.00%

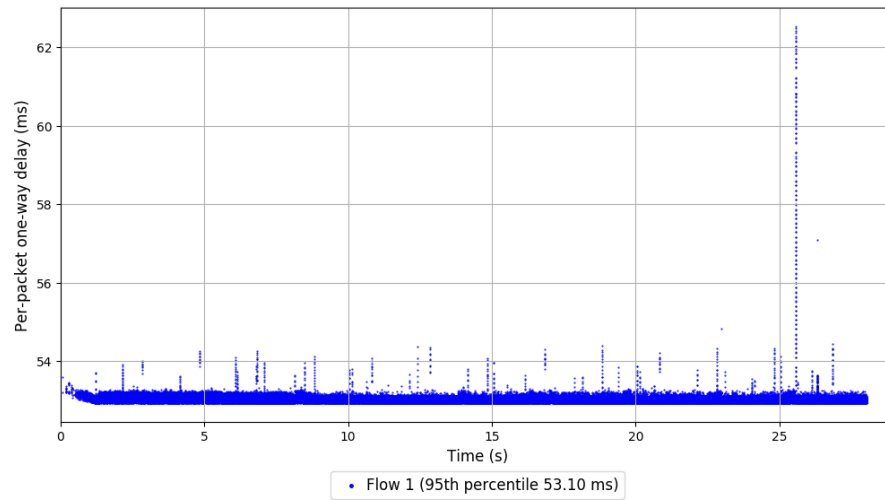
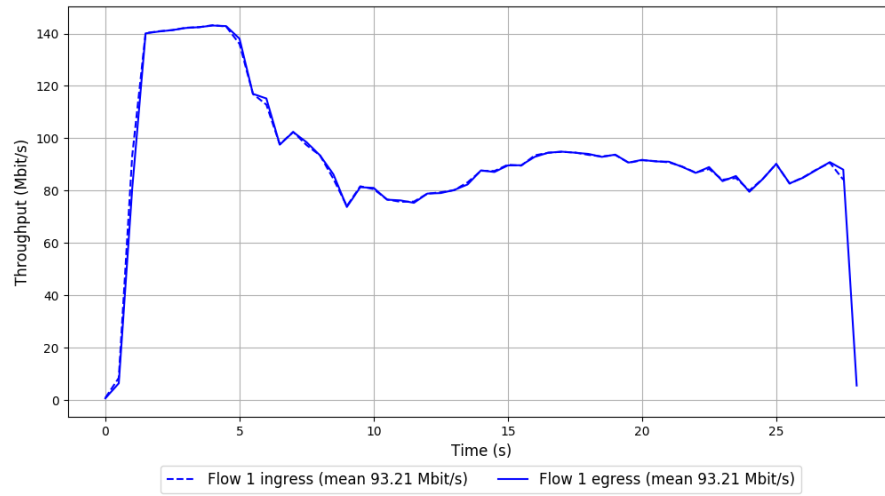
-- Flow 1:

Average throughput: 93.21 Mbit/s

95th percentile per-packet one-way delay: 53.105 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-10-11 01:49:19

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

Below is generated by plot.py at 2017-10-11 03:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 53.097 ms

Loss rate: 0.01%

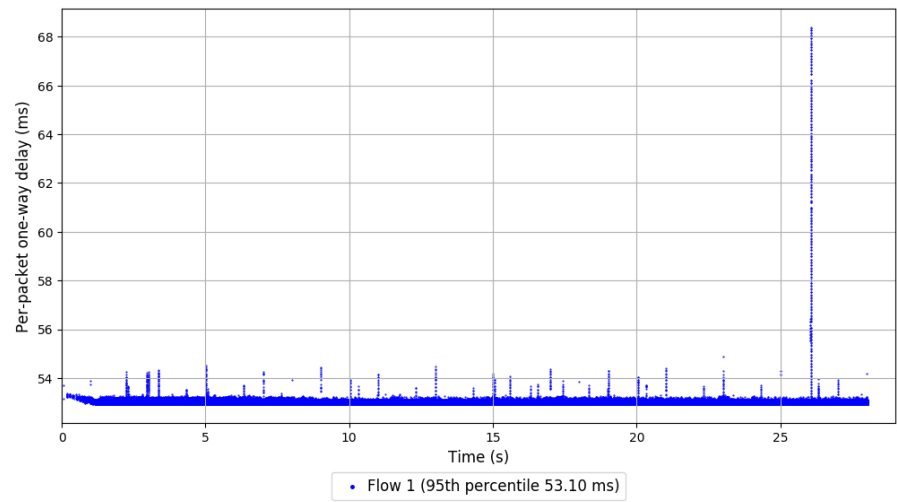
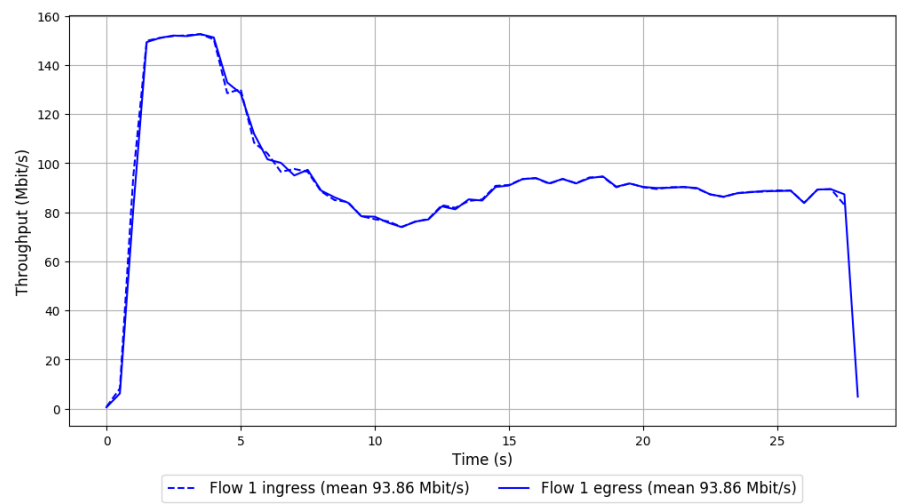
-- Flow 1:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 53.097 ms

Loss rate: 0.01%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

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

End at: 2017-10-11 02:00:40

Below is generated by plot.py at 2017-10-11 03:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 53.094 ms

Loss rate: 0.01%

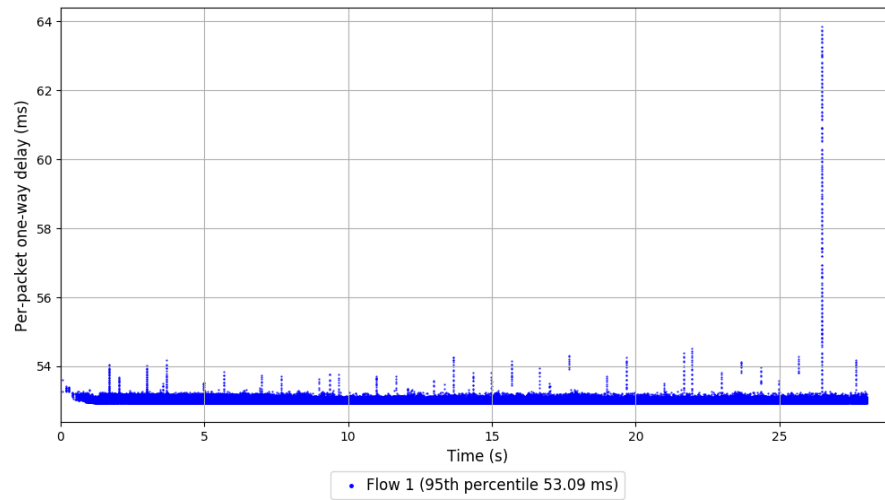
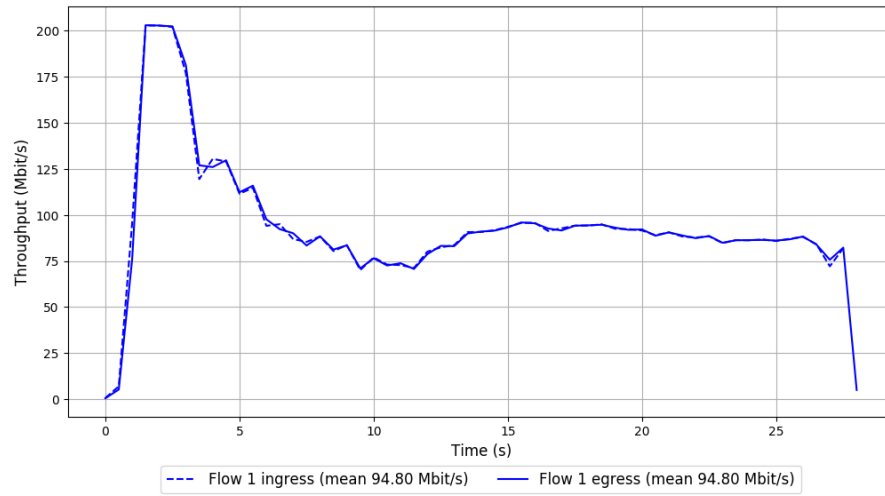
-- Flow 1:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 53.094 ms

Loss rate: 0.01%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

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

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

Below is generated by plot.py at 2017-10-11 03:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.94 Mbit/s

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

Loss rate: 0.01%

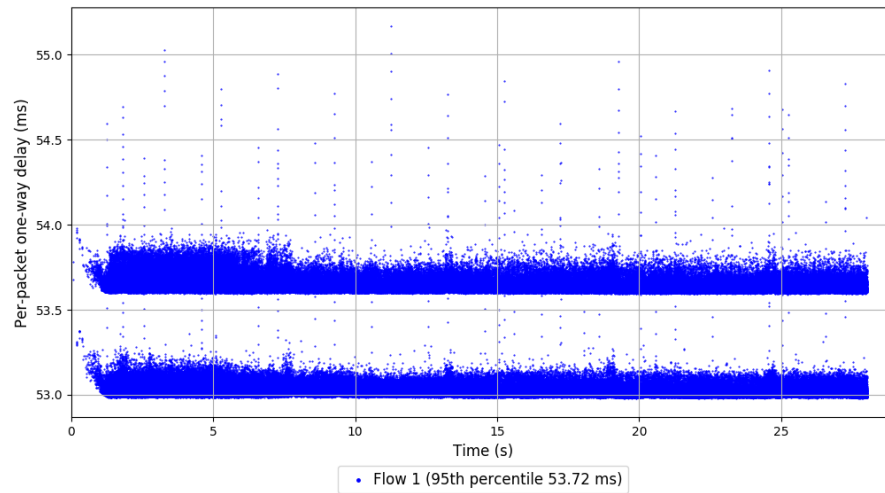
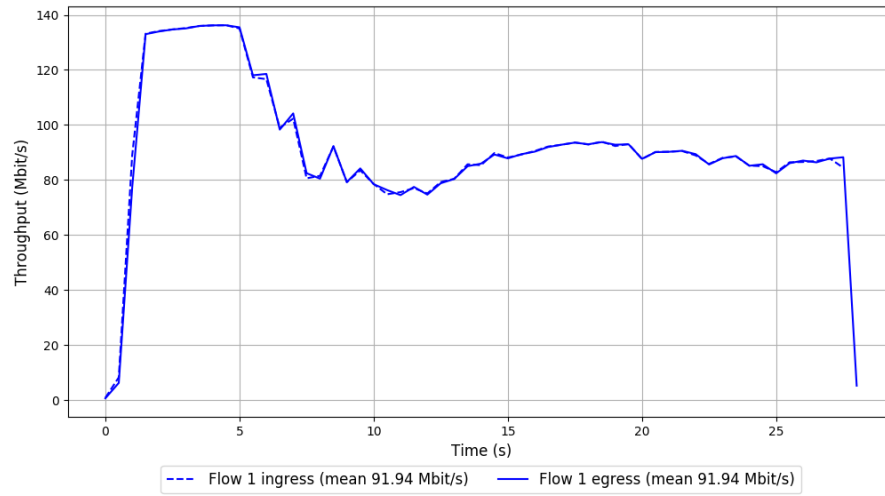
-- Flow 1:

Average throughput: 91.94 Mbit/s

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

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

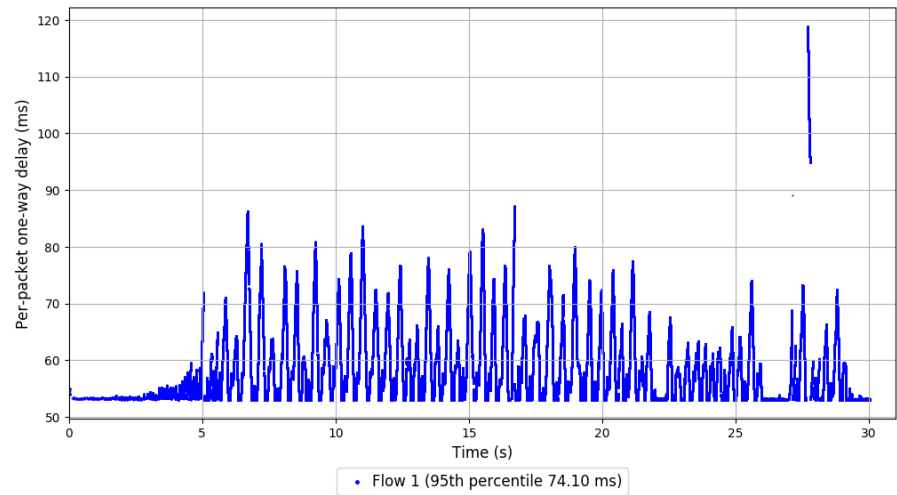
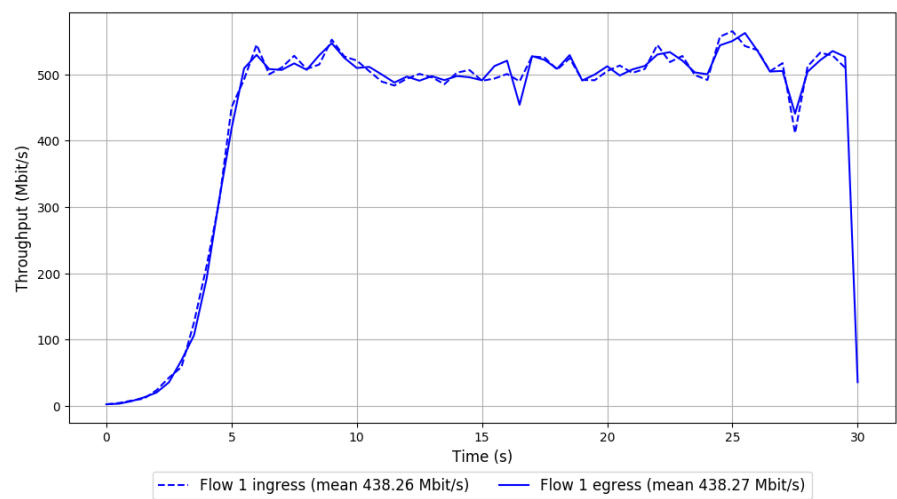


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-10-11 00:36:52
End at: 2017-10-11 00:37:22

# Below is generated by plot.py at 2017-10-11 03:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 438.27 Mbit/s
95th percentile per-packet one-way delay: 74.096 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 438.27 Mbit/s
95th percentile per-packet one-way delay: 74.096 ms
Loss rate: 0.01%
```


Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-10-11 00:47:28

End at: 2017-10-11 00:47:58

Below is generated by plot.py at 2017-10-11 03:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.11 Mbit/s

95th percentile per-packet one-way delay: 69.789 ms

Loss rate: 0.06%

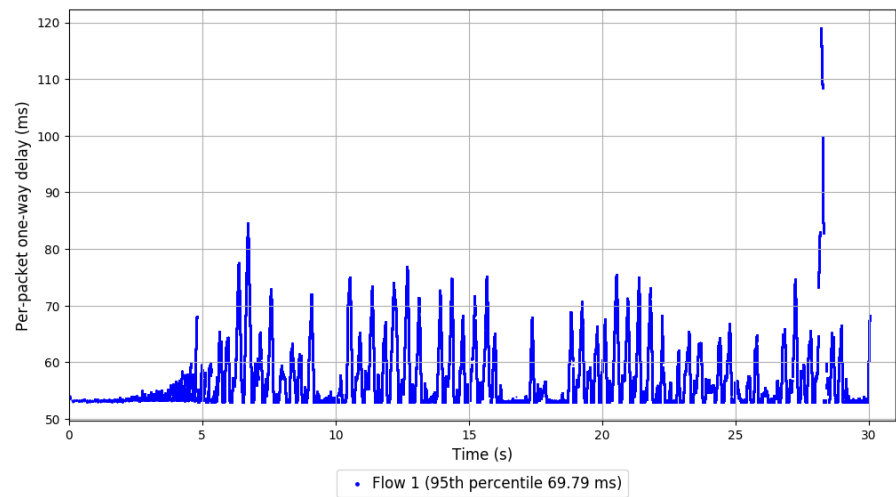
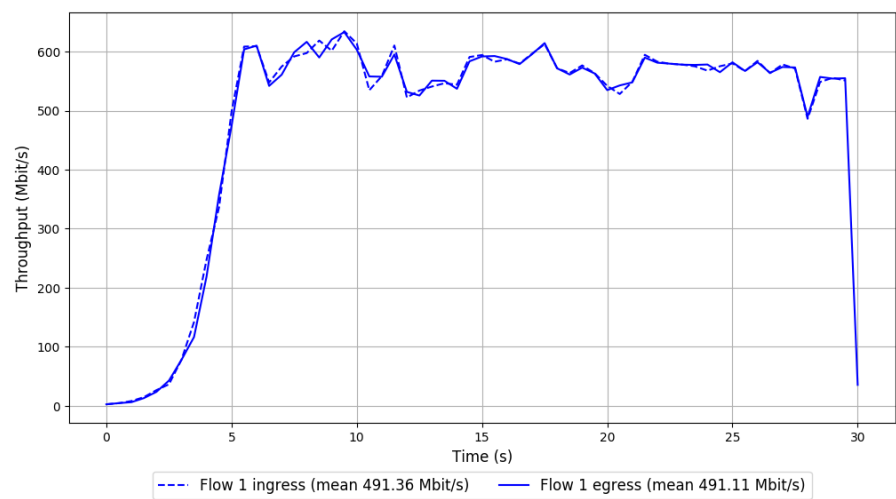
-- Flow 1:

Average throughput: 491.11 Mbit/s

95th percentile per-packet one-way delay: 69.789 ms

Loss rate: 0.06%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-10-11 00:58:02

End at: 2017-10-11 00:58:32

Below is generated by plot.py at 2017-10-11 03:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 409.78 Mbit/s

95th percentile per-packet one-way delay: 74.002 ms

Loss rate: 0.01%

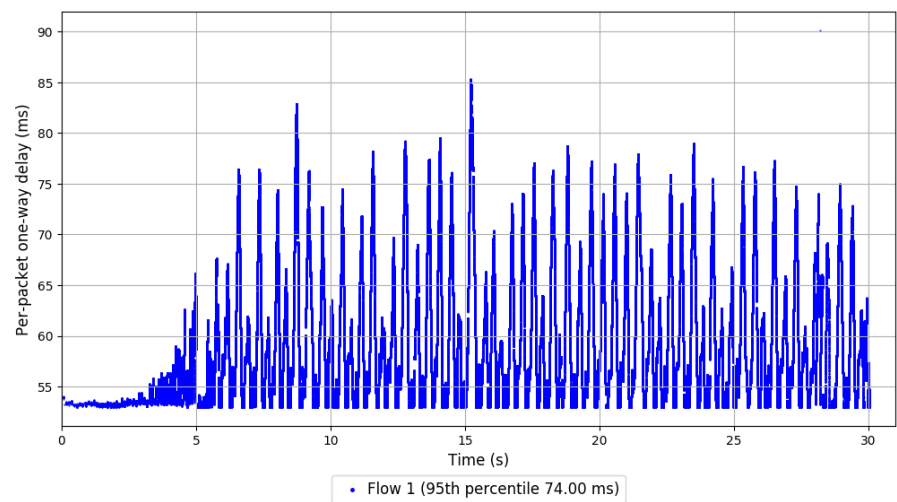
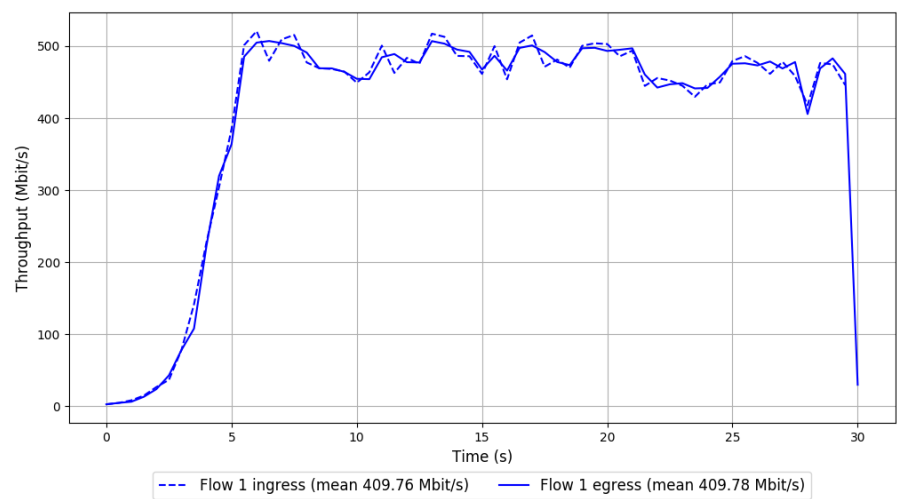
-- Flow 1:

Average throughput: 409.78 Mbit/s

95th percentile per-packet one-way delay: 74.002 ms

Loss rate: 0.01%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-10-11 01:08:26

End at: 2017-10-11 01:08:56

Below is generated by plot.py at 2017-10-11 03:52:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 458.23 Mbit/s

95th percentile per-packet one-way delay: 70.219 ms

Loss rate: 0.03%

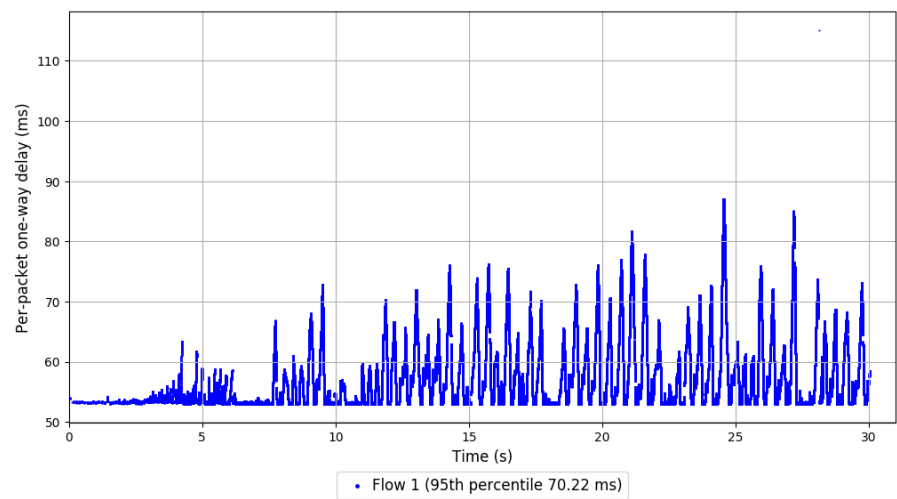
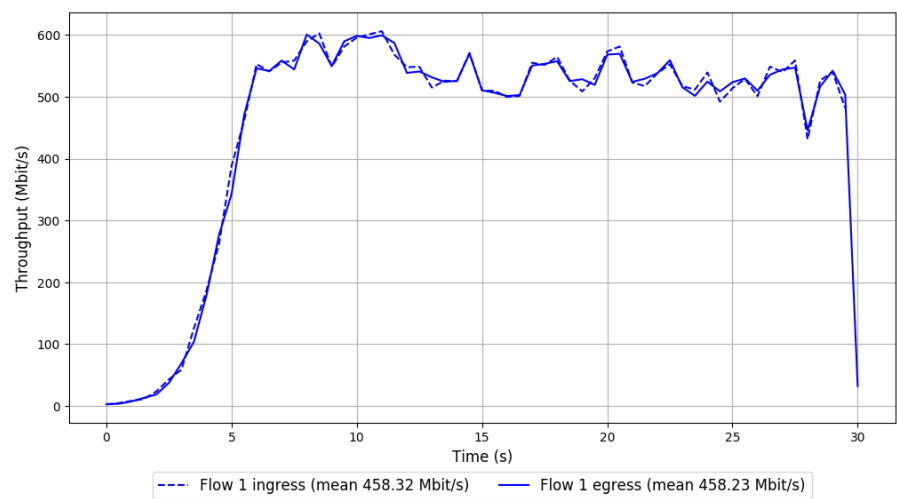
-- Flow 1:

Average throughput: 458.23 Mbit/s

95th percentile per-packet one-way delay: 70.219 ms

Loss rate: 0.03%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-10-11 01:19:26

End at: 2017-10-11 01:19:56

Below is generated by plot.py at 2017-10-11 03:52:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 470.69 Mbit/s

95th percentile per-packet one-way delay: 69.481 ms

Loss rate: 0.01%

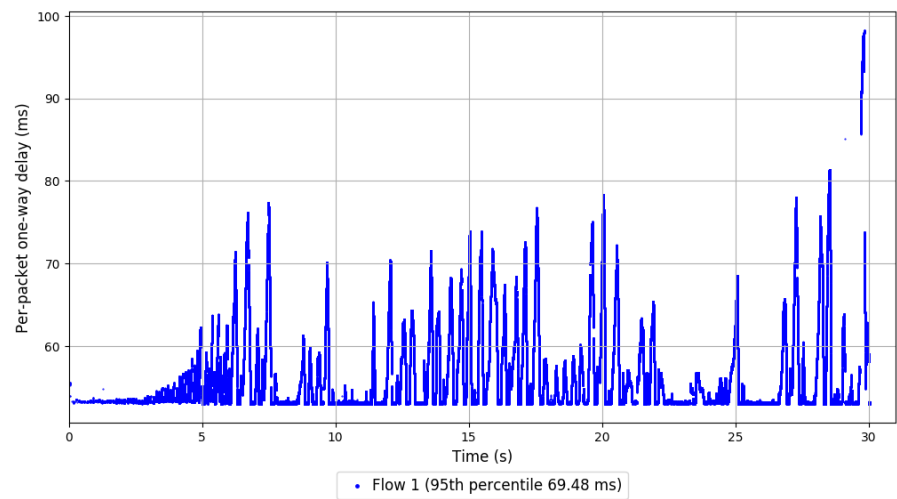
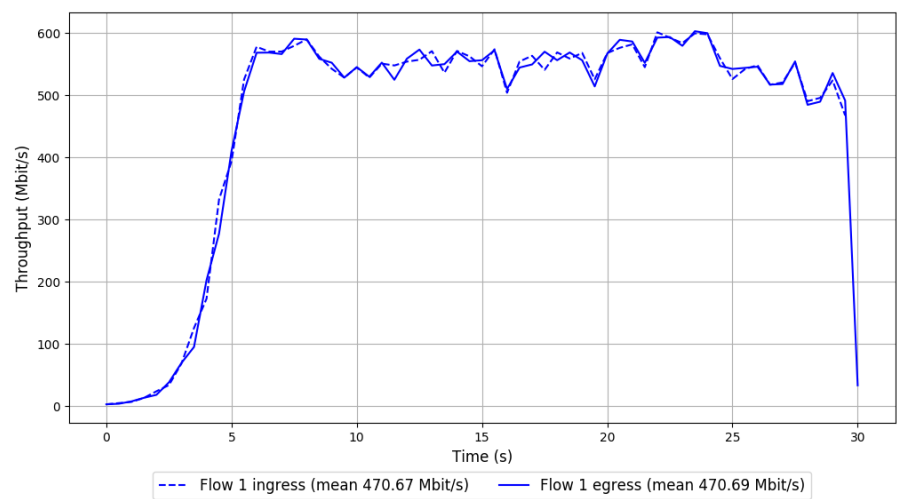
-- Flow 1:

Average throughput: 470.69 Mbit/s

95th percentile per-packet one-way delay: 69.481 ms

Loss rate: 0.01%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-10-11 01:30:14

End at: 2017-10-11 01:30:44

Below is generated by plot.py at 2017-10-11 03:52:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 451.56 Mbit/s

95th percentile per-packet one-way delay: 71.185 ms

Loss rate: 0.03%

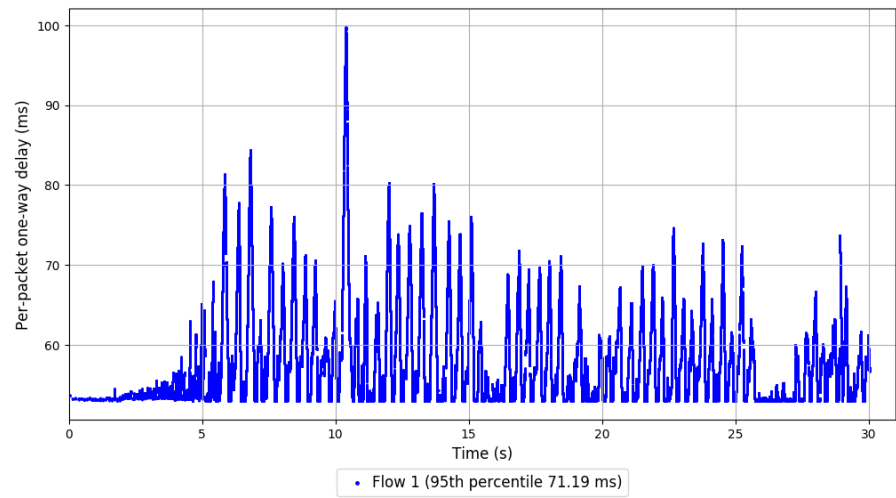
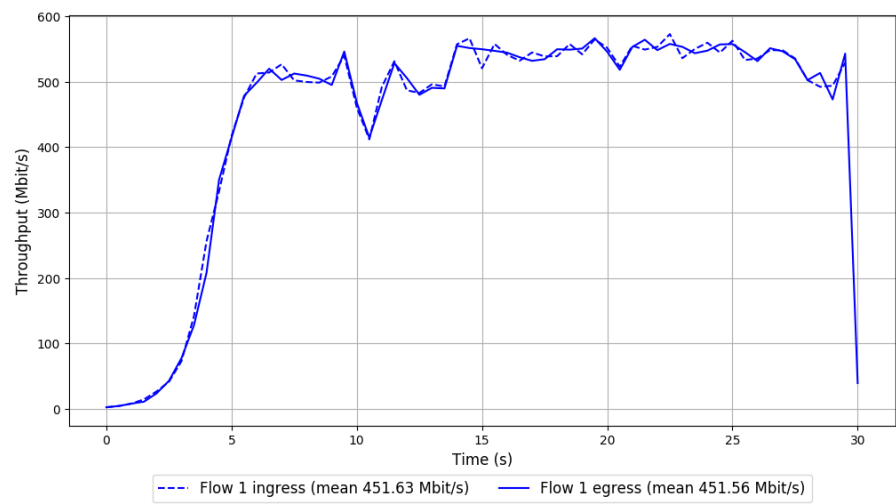
-- Flow 1:

Average throughput: 451.56 Mbit/s

95th percentile per-packet one-way delay: 71.185 ms

Loss rate: 0.03%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-10-11 01:40:32

End at: 2017-10-11 01:41:02

Below is generated by plot.py at 2017-10-11 03:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 465.33 Mbit/s

95th percentile per-packet one-way delay: 73.857 ms

Loss rate: 0.02%

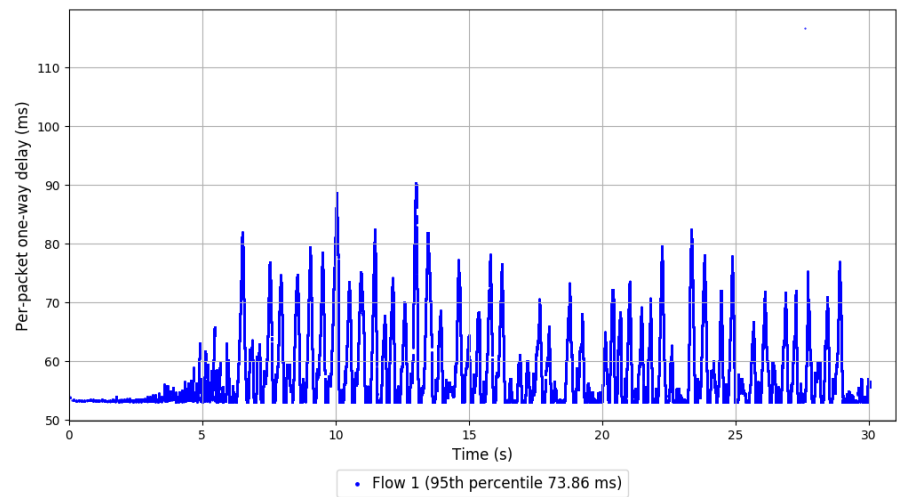
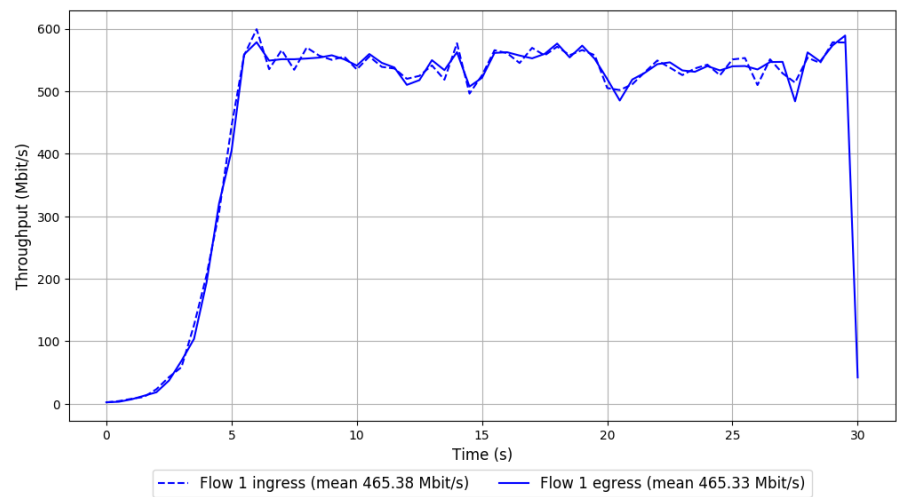
-- Flow 1:

Average throughput: 465.33 Mbit/s

95th percentile per-packet one-way delay: 73.857 ms

Loss rate: 0.02%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-10-11 01:51:03

End at: 2017-10-11 01:51:33

Below is generated by plot.py at 2017-10-11 03:52:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 458.94 Mbit/s

95th percentile per-packet one-way delay: 67.275 ms

Loss rate: 0.01%

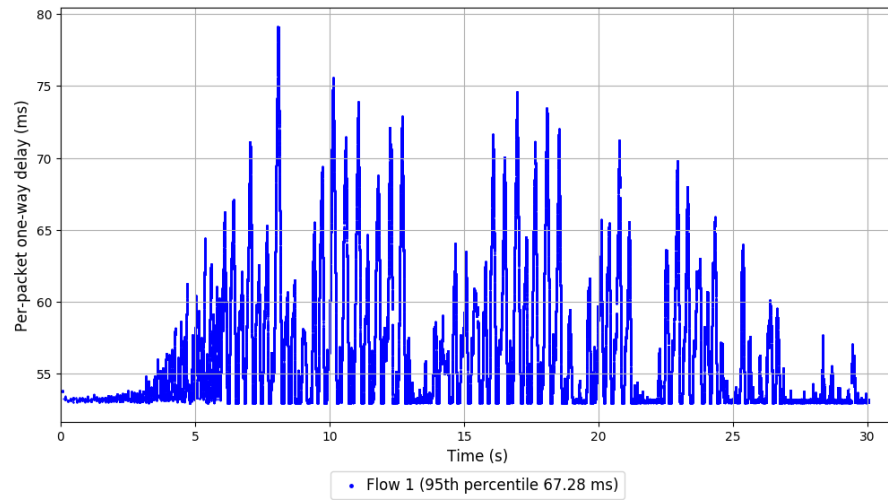
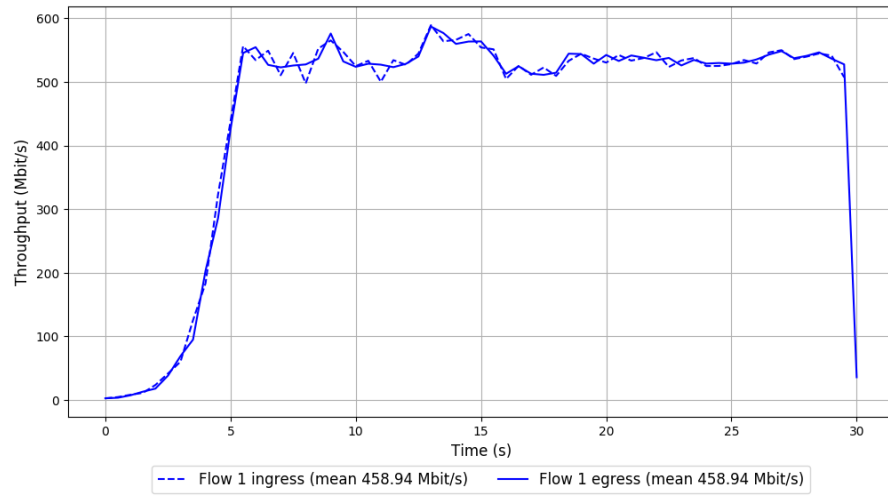
-- Flow 1:

Average throughput: 458.94 Mbit/s

95th percentile per-packet one-way delay: 67.275 ms

Loss rate: 0.01%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-10-11 02:01:41

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

Below is generated by plot.py at 2017-10-11 03:57:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 463.11 Mbit/s

95th percentile per-packet one-way delay: 72.511 ms

Loss rate: 0.01%

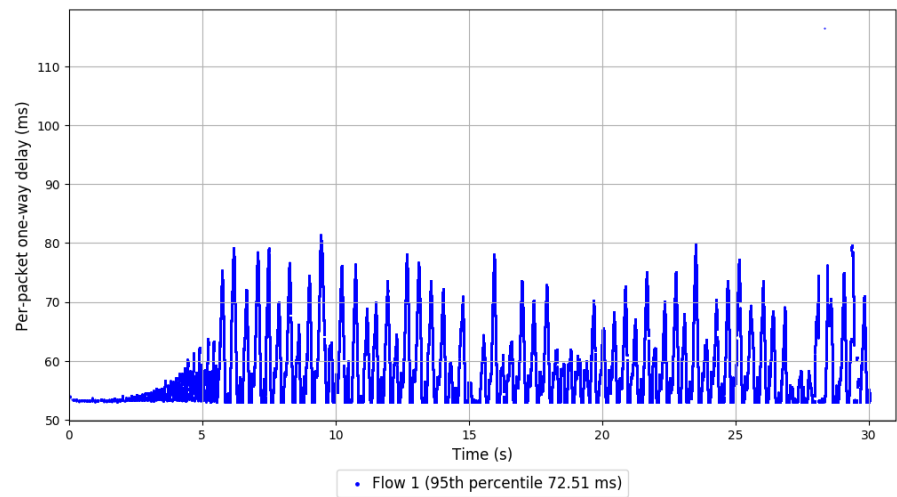
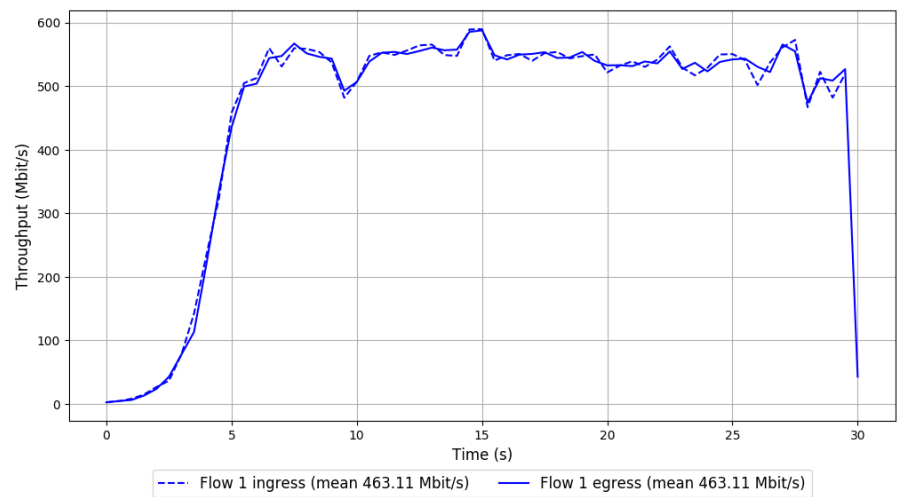
-- Flow 1:

Average throughput: 463.11 Mbit/s

95th percentile per-packet one-way delay: 72.511 ms

Loss rate: 0.01%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-10-11 02:12:06

End at: 2017-10-11 02:12:36

Below is generated by plot.py at 2017-10-11 03:57:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 450.51 Mbit/s

95th percentile per-packet one-way delay: 60.656 ms

Loss rate: 0.01%

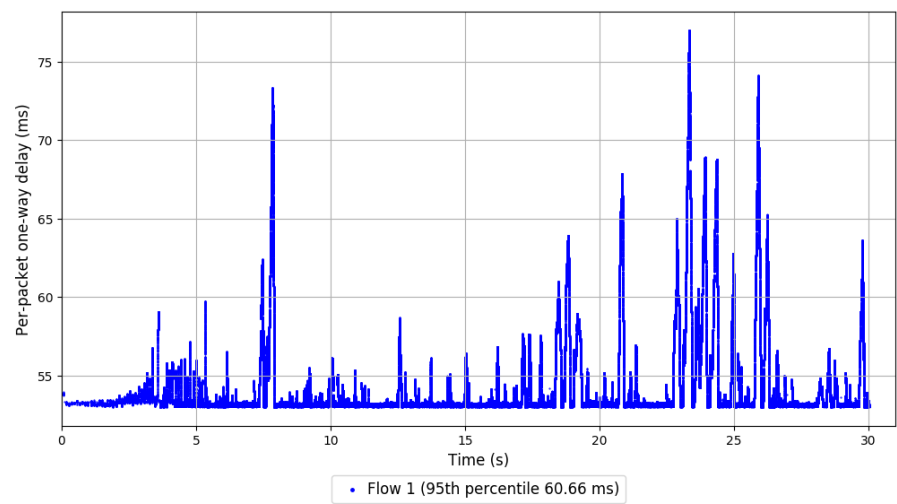
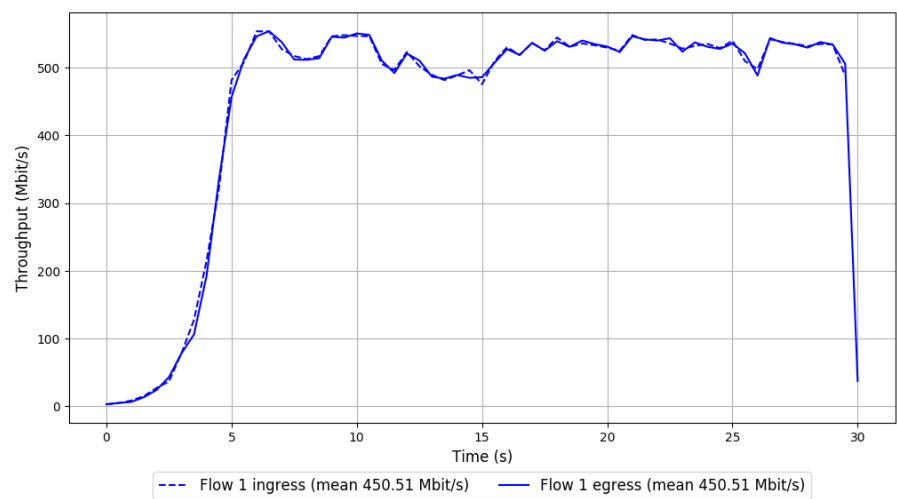
-- Flow 1:

Average throughput: 450.51 Mbit/s

95th percentile per-packet one-way delay: 60.656 ms

Loss rate: 0.01%

Run 10: Report of CalibratedKoho — Data Link

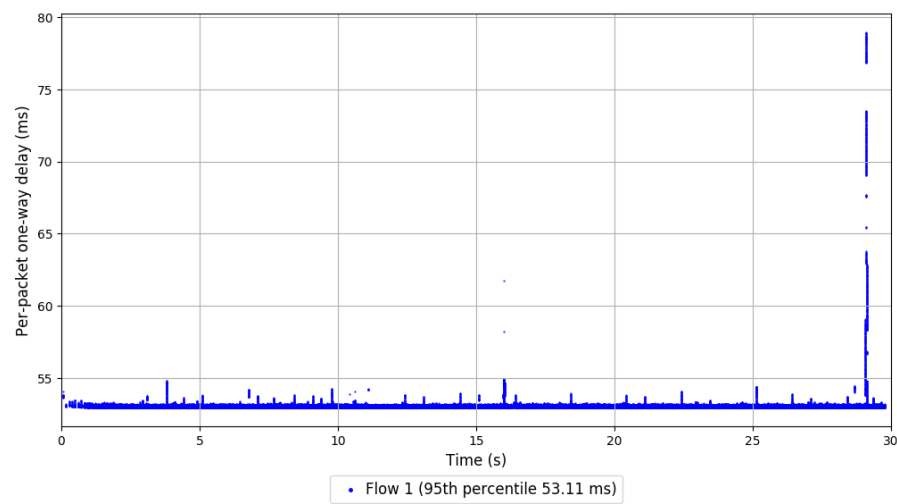
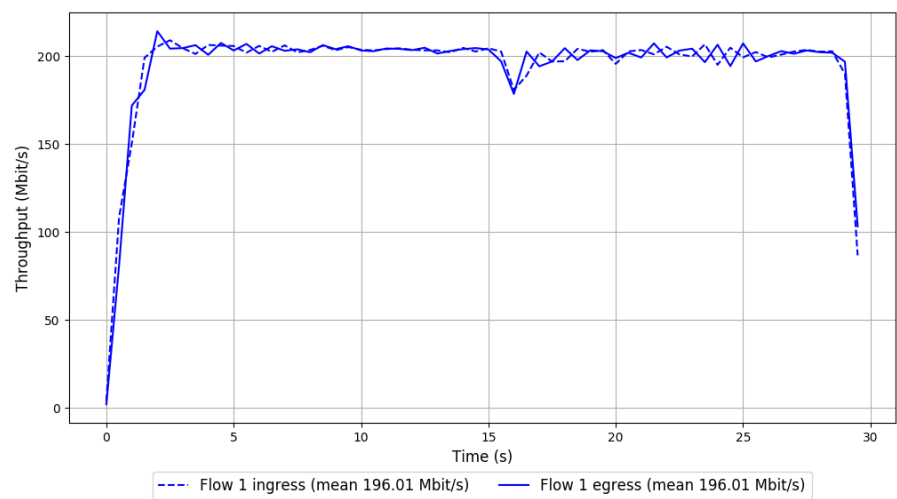


```
Run 1: Statistics of Indigo

Start at: 2017-10-11 00:31:22
End at: 2017-10-11 00:31:52

# Below is generated by plot.py at 2017-10-11 03:57:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.01 Mbit/s
95th percentile per-packet one-way delay: 53.108 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 196.01 Mbit/s
95th percentile per-packet one-way delay: 53.108 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

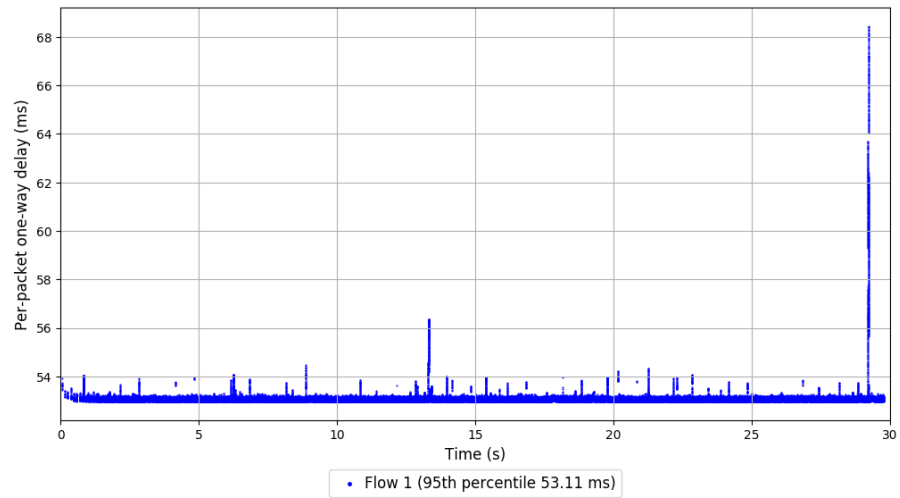
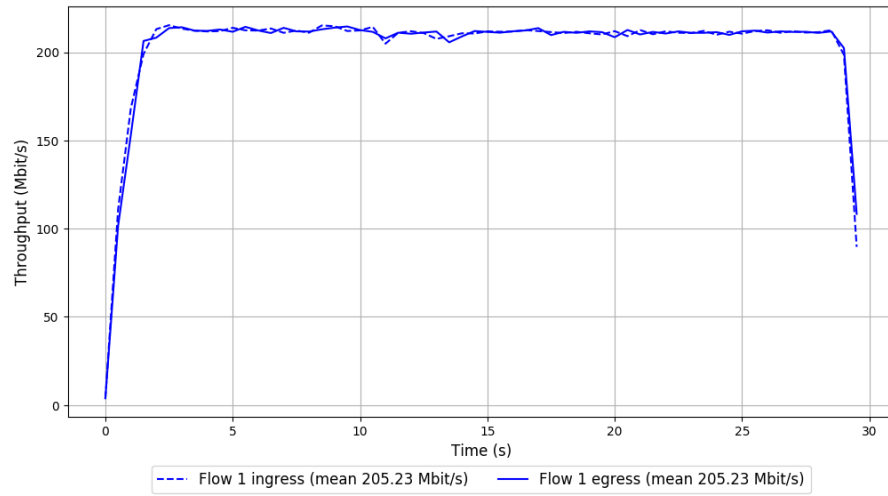


```
Run 2: Statistics of Indigo

Start at: 2017-10-11 00:42:18
End at: 2017-10-11 00:42:48

# Below is generated by plot.py at 2017-10-11 03:57:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.23 Mbit/s
95th percentile per-packet one-way delay: 53.112 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 205.23 Mbit/s
95th percentile per-packet one-way delay: 53.112 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-10-11 00:52:31

End at: 2017-10-11 00:53:01

Below is generated by plot.py at 2017-10-11 03:57:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.03 Mbit/s

95th percentile per-packet one-way delay: 53.107 ms

Loss rate: 0.00%

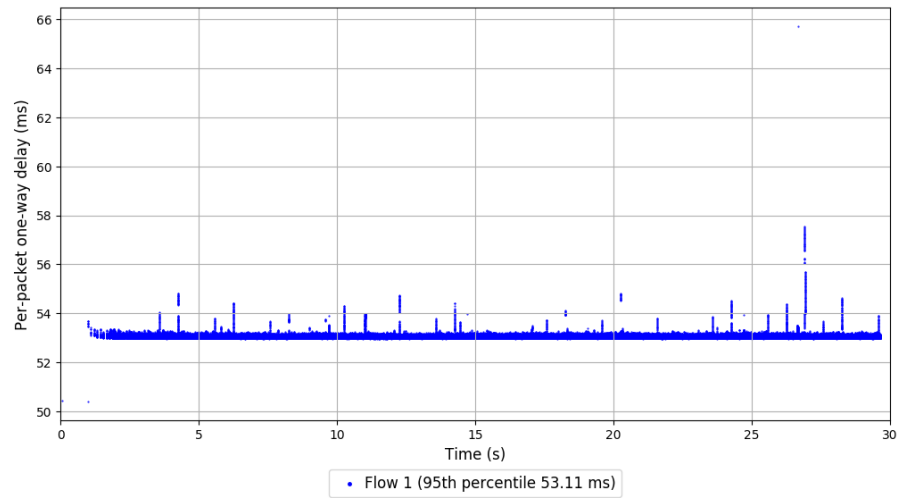
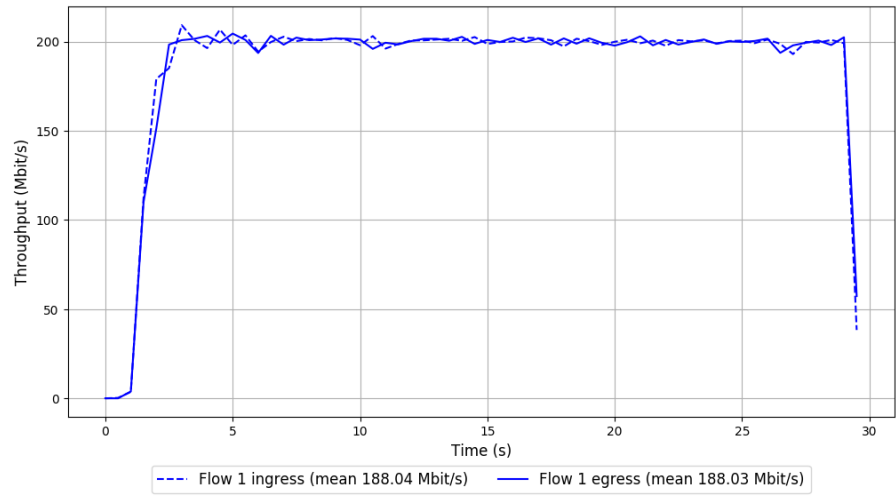
-- Flow 1:

Average throughput: 188.03 Mbit/s

95th percentile per-packet one-way delay: 53.107 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-10-11 01:03:17

End at: 2017-10-11 01:03:47

Below is generated by plot.py at 2017-10-11 03:57:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.32 Mbit/s

95th percentile per-packet one-way delay: 53.118 ms

Loss rate: 0.00%

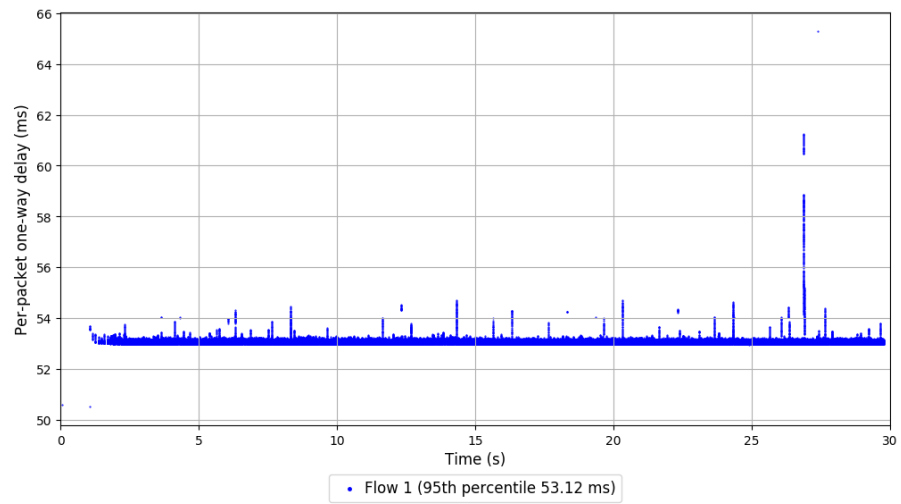
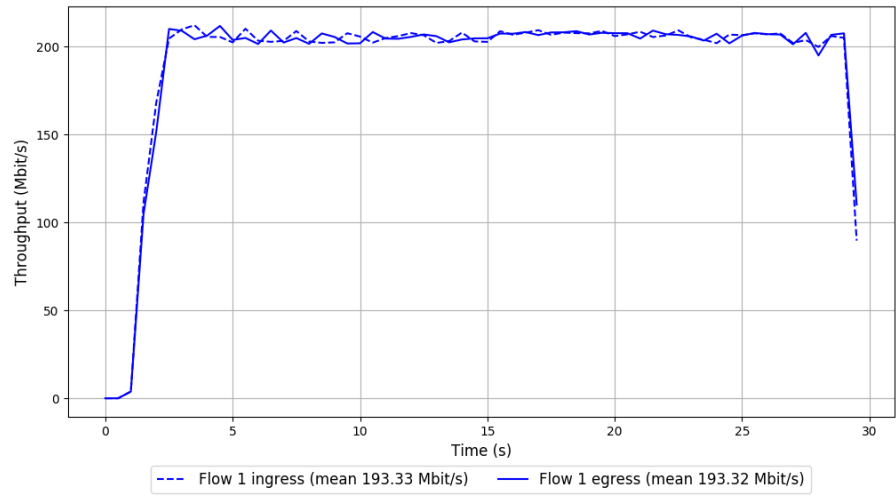
-- Flow 1:

Average throughput: 193.32 Mbit/s

95th percentile per-packet one-way delay: 53.118 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-10-11 01:13:48

End at: 2017-10-11 01:14:18

Below is generated by plot.py at 2017-10-11 03:57:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.62 Mbit/s

95th percentile per-packet one-way delay: 53.118 ms

Loss rate: 0.01%

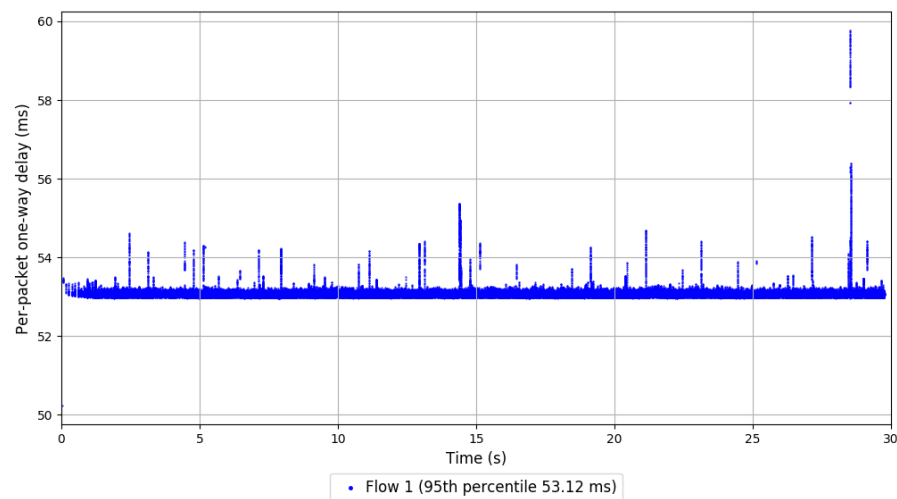
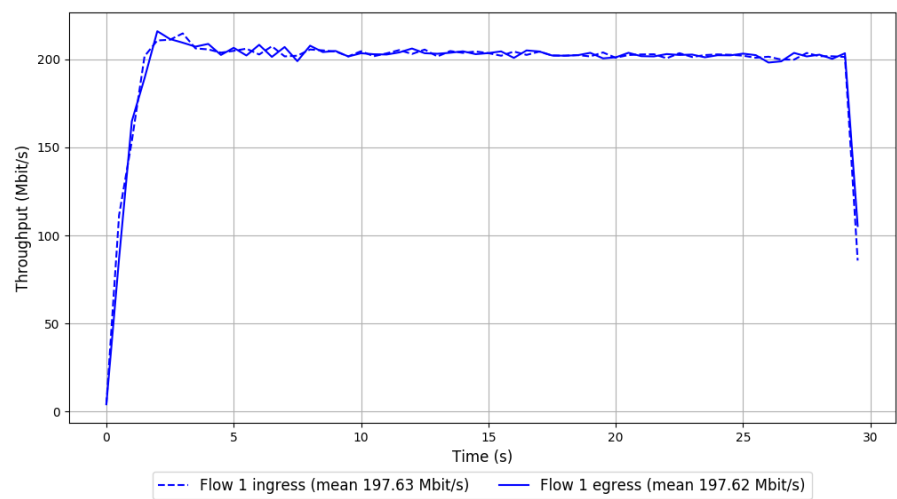
-- Flow 1:

Average throughput: 197.62 Mbit/s

95th percentile per-packet one-way delay: 53.118 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-10-11 01:24:52

End at: 2017-10-11 01:25:22

Below is generated by plot.py at 2017-10-11 03:57:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.87 Mbit/s

95th percentile per-packet one-way delay: 53.122 ms

Loss rate: 0.01%

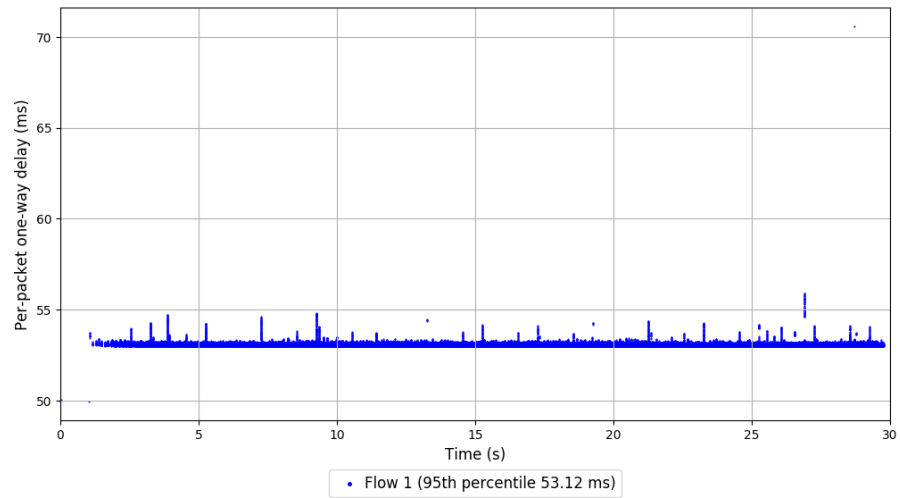
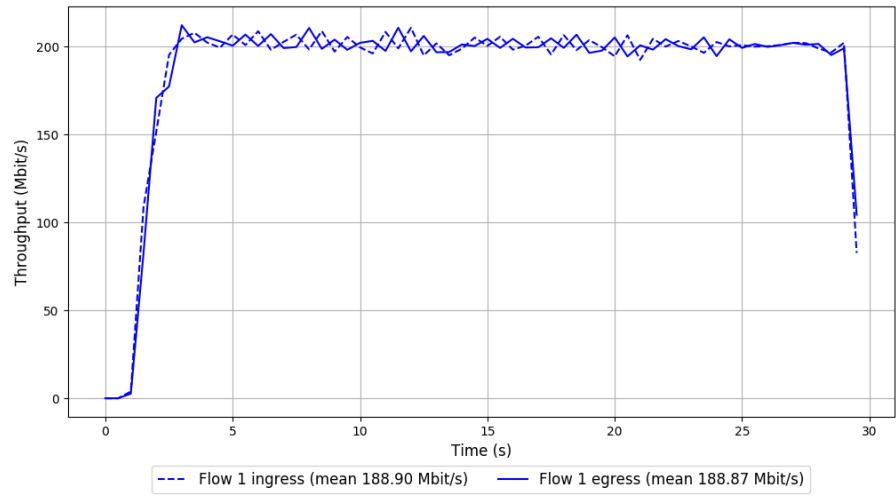
-- Flow 1:

Average throughput: 188.87 Mbit/s

95th percentile per-packet one-way delay: 53.122 ms

Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-10-11 01:35:28

End at: 2017-10-11 01:35:59

Below is generated by plot.py at 2017-10-11 03:57:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.29 Mbit/s

95th percentile per-packet one-way delay: 53.107 ms

Loss rate: 0.01%

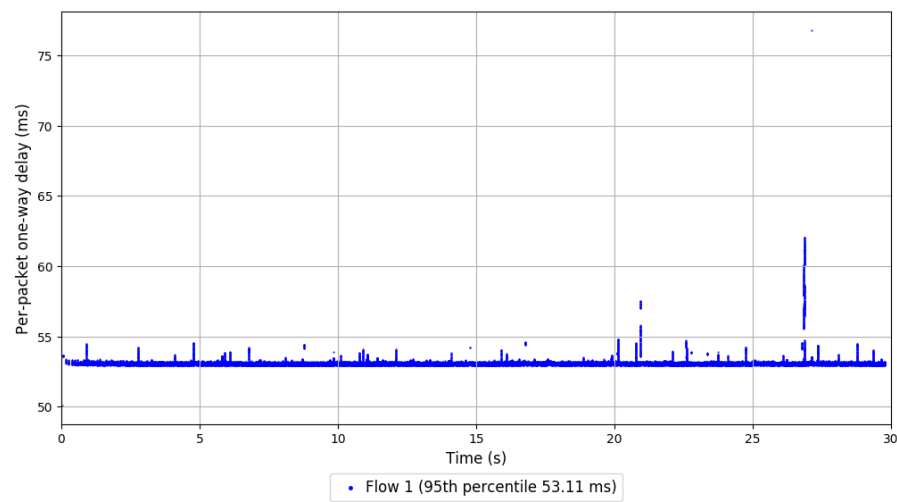
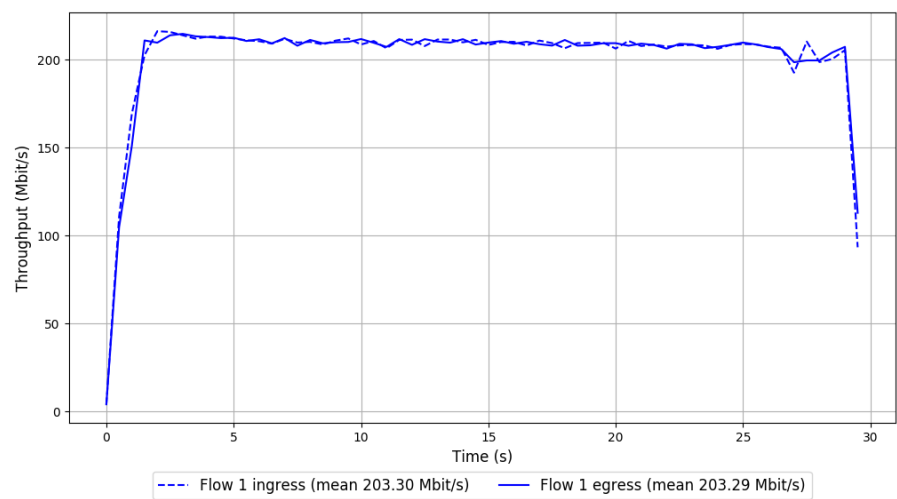
-- Flow 1:

Average throughput: 203.29 Mbit/s

95th percentile per-packet one-way delay: 53.107 ms

Loss rate: 0.01%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-10-11 01:45:31

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

Below is generated by plot.py at 2017-10-11 03:57:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.19 Mbit/s

95th percentile per-packet one-way delay: 53.106 ms

Loss rate: 0.00%

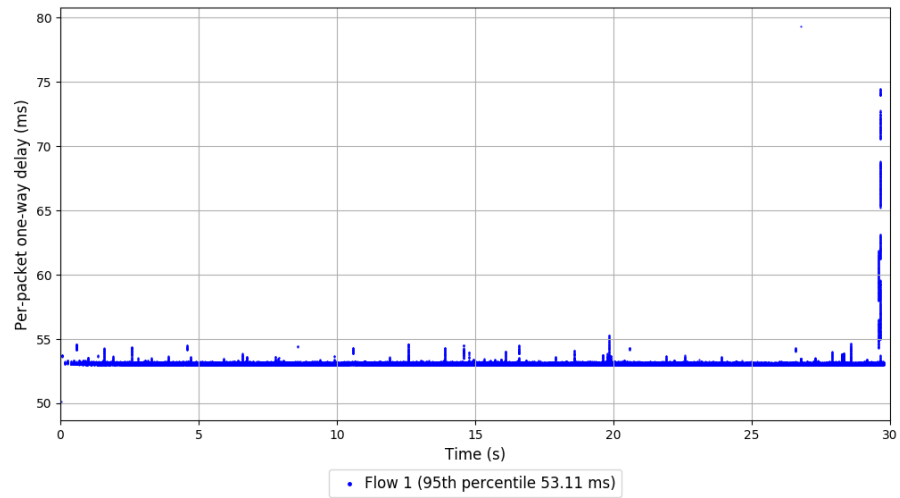
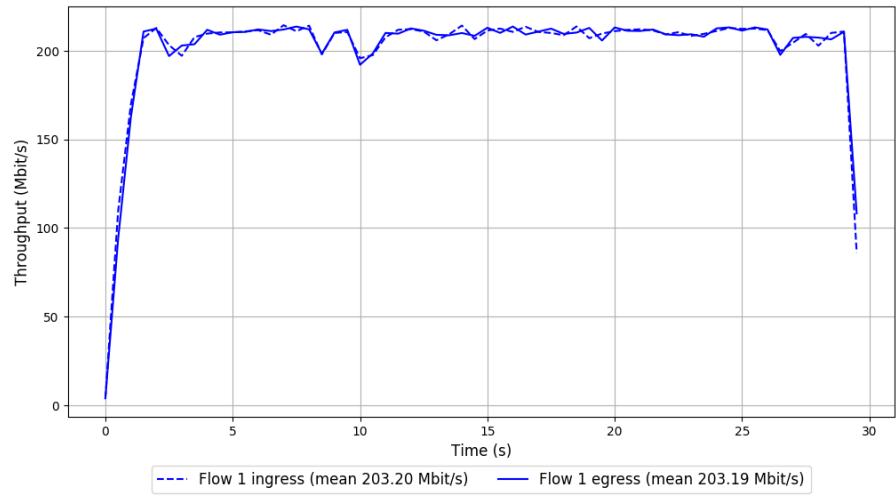
-- Flow 1:

Average throughput: 203.19 Mbit/s

95th percentile per-packet one-way delay: 53.106 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-10-11 01:56:27

End at: 2017-10-11 01:56:57

Below is generated by plot.py at 2017-10-11 03:57:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.94 Mbit/s

95th percentile per-packet one-way delay: 53.105 ms

Loss rate: 0.00%

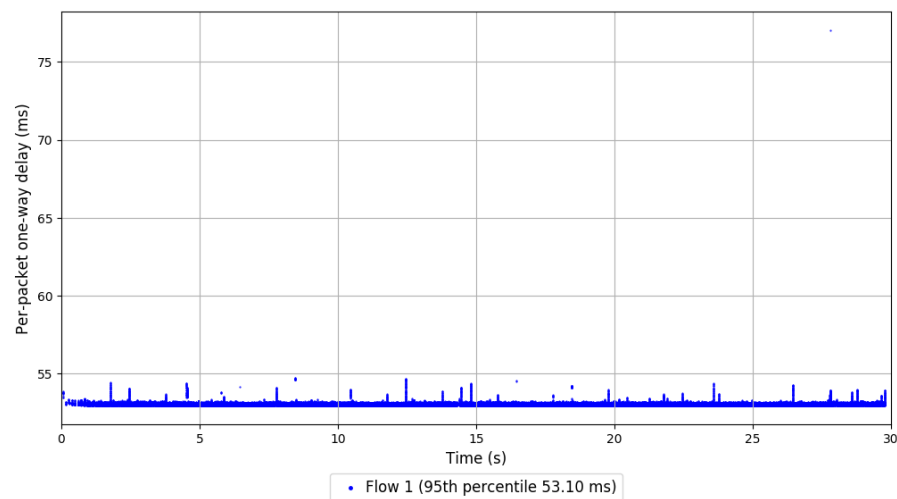
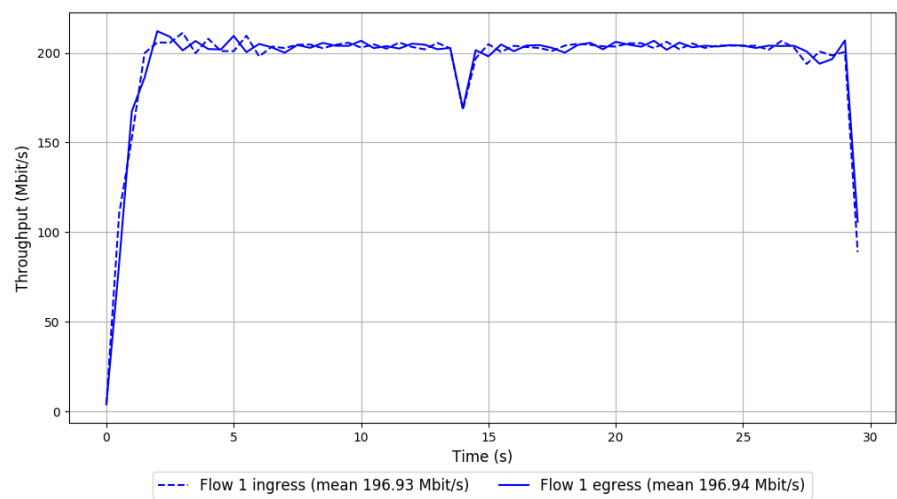
-- Flow 1:

Average throughput: 196.94 Mbit/s

95th percentile per-packet one-way delay: 53.105 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-10-11 02:06:41

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

Below is generated by plot.py at 2017-10-11 03:57:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.02 Mbit/s

95th percentile per-packet one-way delay: 53.116 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 200.02 Mbit/s

95th percentile per-packet one-way delay: 53.116 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

