

## Pantheon Report

Generated at 2017-11-21 02:37:43 (UTC).

Data path: GCE London 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.

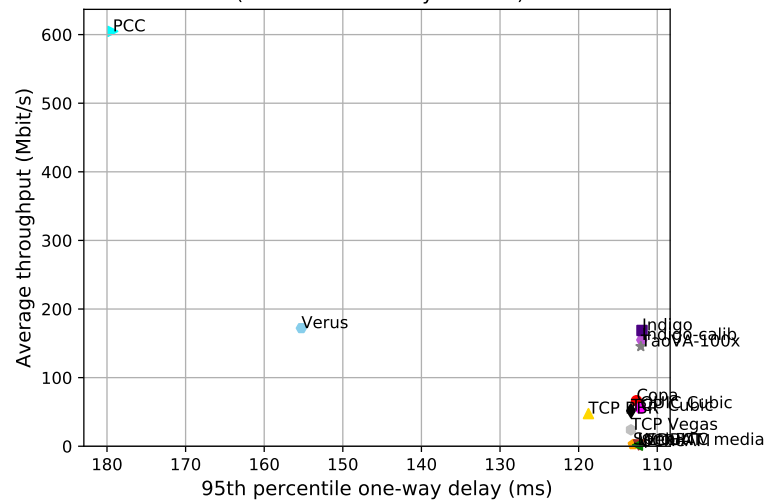
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

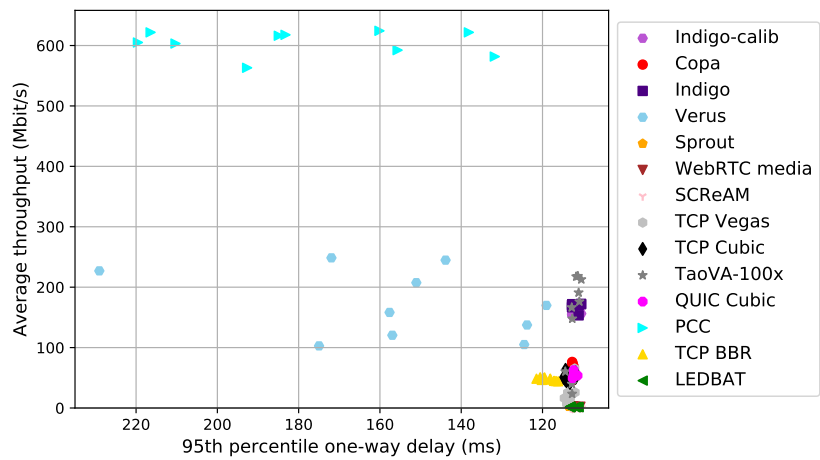
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE London 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	47.58	118.75	0.02
TCP Cubic	10	51.67	113.34	0.01
LEDBAT	10	1.57	112.52	0.47
PCC	10	604.74	179.26	0.98
QUIC Cubic	4	55.47	112.16	0.00
SCReAM	10	0.21	111.98	0.01
WebRTC media	10	1.94	112.36	0.00
Sprout	10	2.61	113.07	0.41
TaoVA-100x	10	145.41	112.09	0.00
TCP Vegas	10	23.94	113.35	0.03
Verus	10	172.15	155.28	0.74
Copa	10	66.33	112.64	0.00
Indigo	10	168.74	111.94	0.01
Indigo-calib	10	154.93	111.97	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-11-20 23:37:24

End at: 2017-11-20 23:37:54

# Below is generated by plot.py at 2017-11-21 02:01:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.62 Mbit/s

95th percentile per-packet one-way delay: 116.678 ms

Loss rate: 0.03%

-- Flow 1:

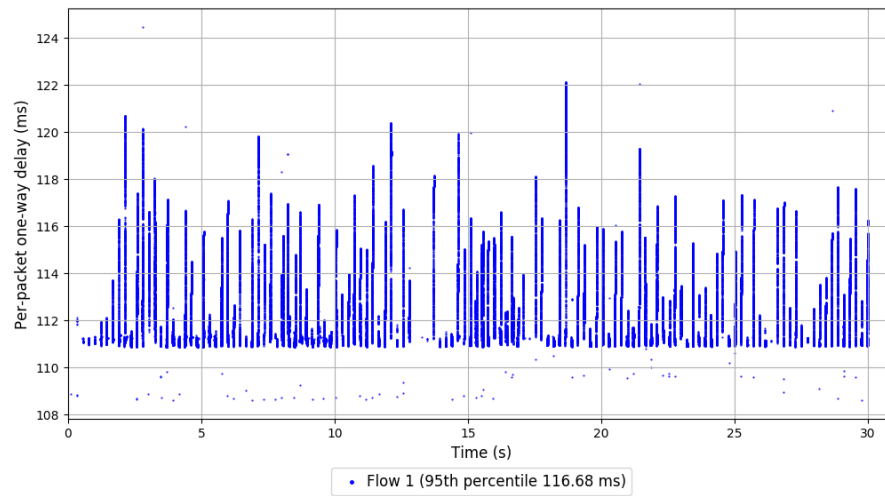
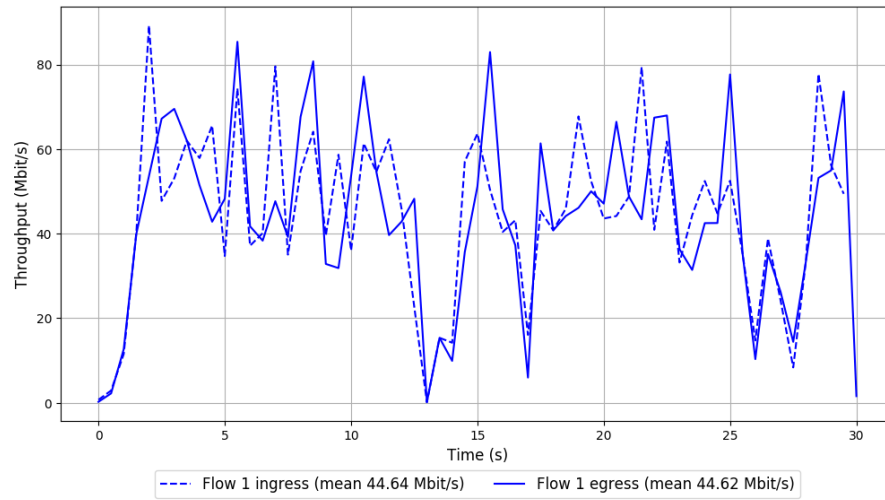
Average throughput: 44.62 Mbit/s

95th percentile per-packet one-way delay: 116.678 ms

Loss rate: 0.03%



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-20 23:48:35

End at: 2017-11-20 23:49:05

# Below is generated by plot.py at 2017-11-21 02:01:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.96 Mbit/s

95th percentile per-packet one-way delay: 117.163 ms

Loss rate: 0.01%

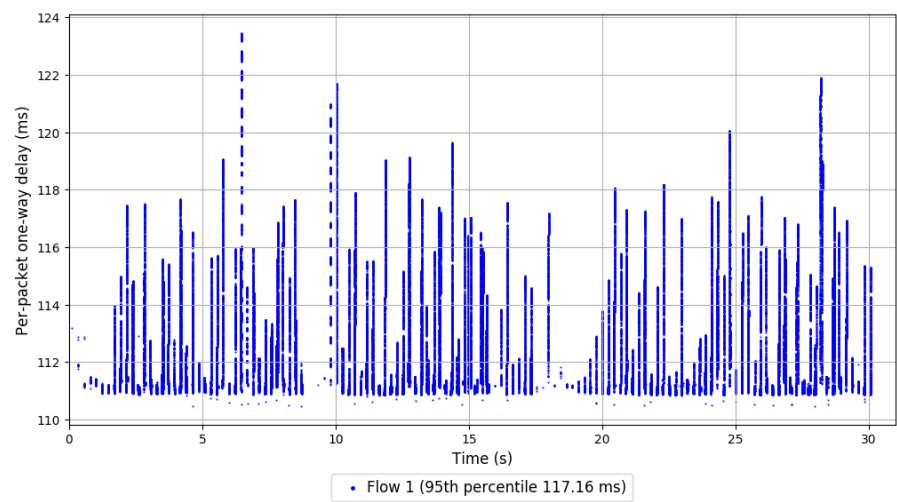
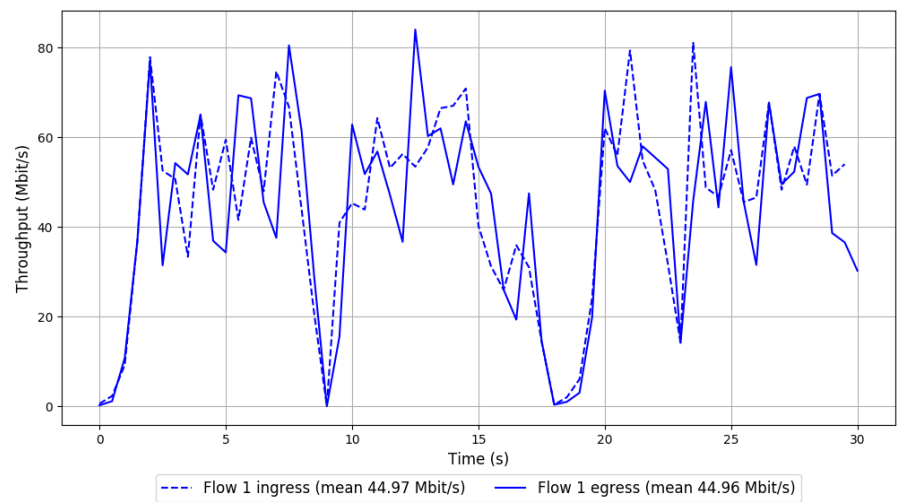
-- Flow 1:

Average throughput: 44.96 Mbit/s

95th percentile per-packet one-way delay: 117.163 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-20 23:59:51

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

# Below is generated by plot.py at 2017-11-21 02:01:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.53 Mbit/s

95th percentile per-packet one-way delay: 121.483 ms

Loss rate: 0.03%

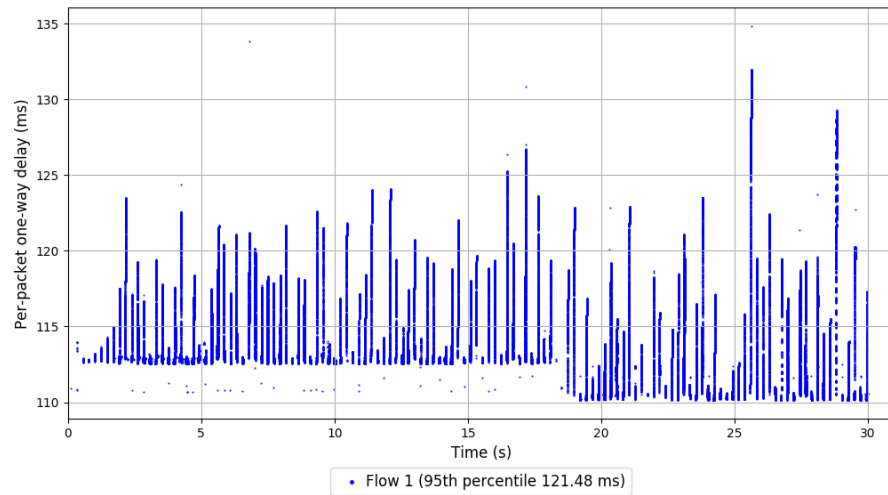
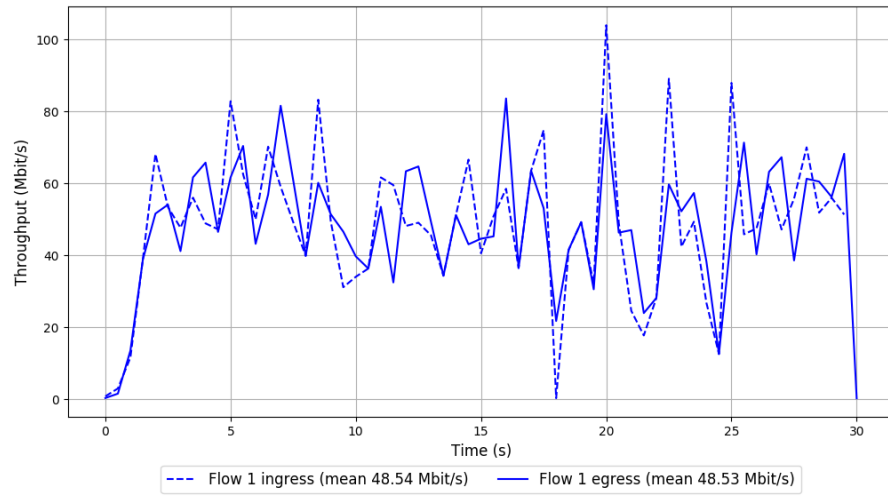
-- Flow 1:

Average throughput: 48.53 Mbit/s

95th percentile per-packet one-way delay: 121.483 ms

Loss rate: 0.03%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-21 00:11:12

End at: 2017-11-21 00:11:42

# Below is generated by plot.py at 2017-11-21 02:01:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 116.146 ms

Loss rate: 0.04%

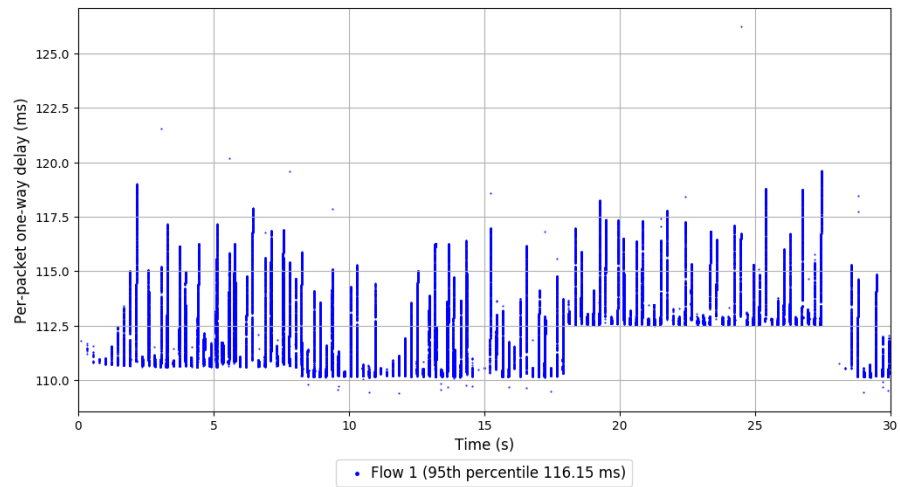
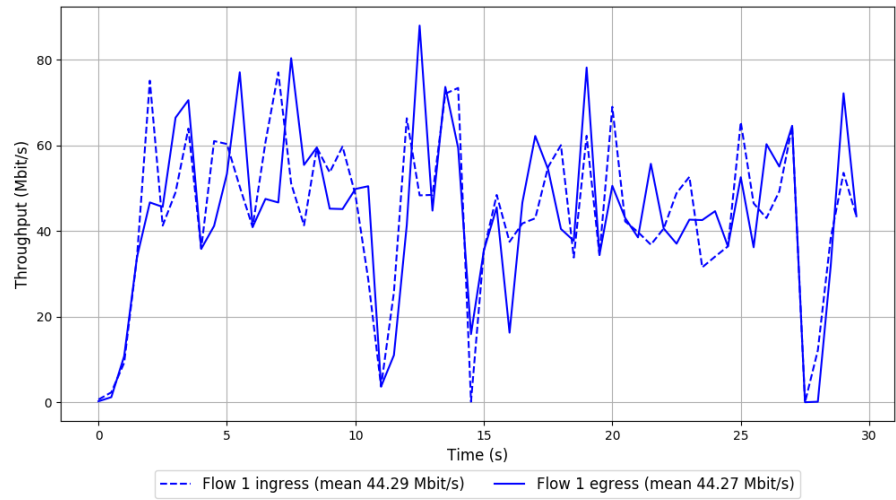
-- Flow 1:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 116.146 ms

Loss rate: 0.04%

#### Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-21 00:22:14

End at: 2017-11-21 00:22:44

# Below is generated by plot.py at 2017-11-21 02:01:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.04 Mbit/s

95th percentile per-packet one-way delay: 118.062 ms

Loss rate: 0.01%

-- Flow 1:

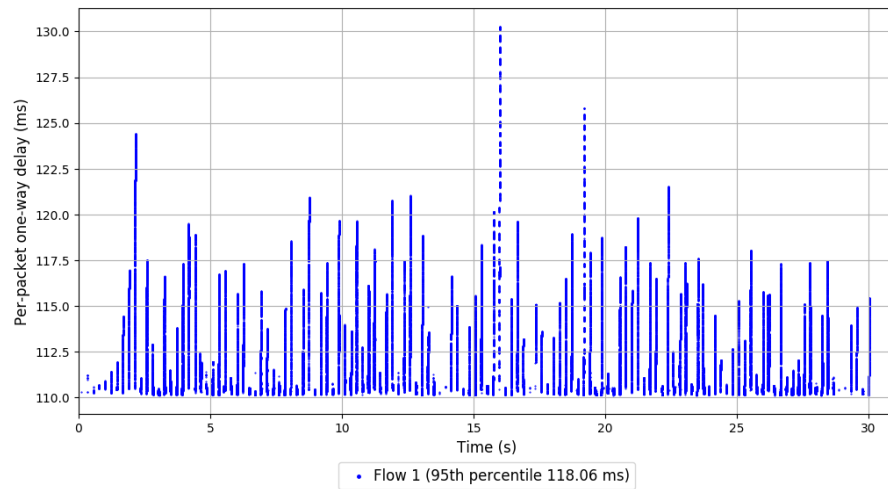
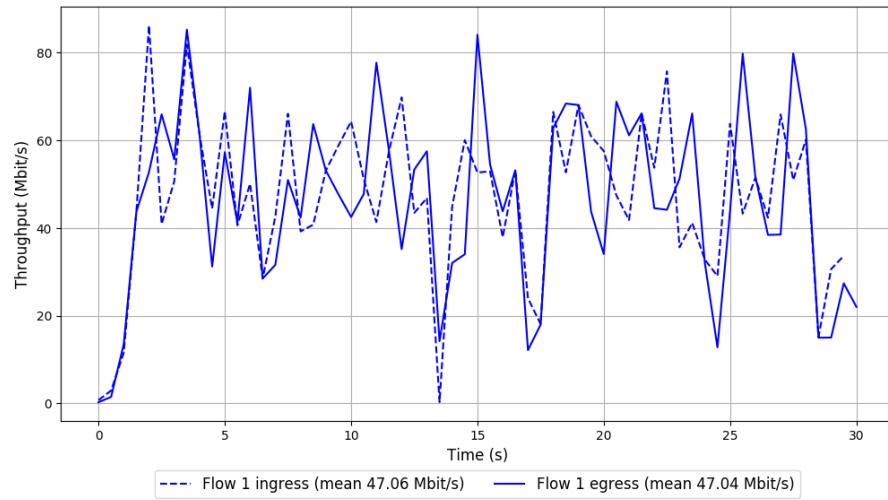
Average throughput: 47.04 Mbit/s

95th percentile per-packet one-way delay: 118.062 ms

Loss rate: 0.01%



### Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-21 00:33:33

End at: 2017-11-21 00:34:03

# Below is generated by plot.py at 2017-11-21 02:01:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.52 Mbit/s

95th percentile per-packet one-way delay: 120.177 ms

Loss rate: 0.02%

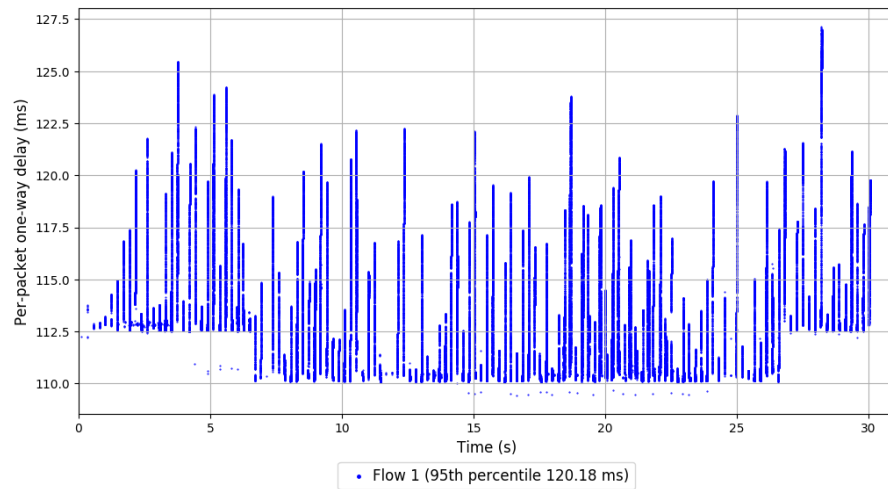
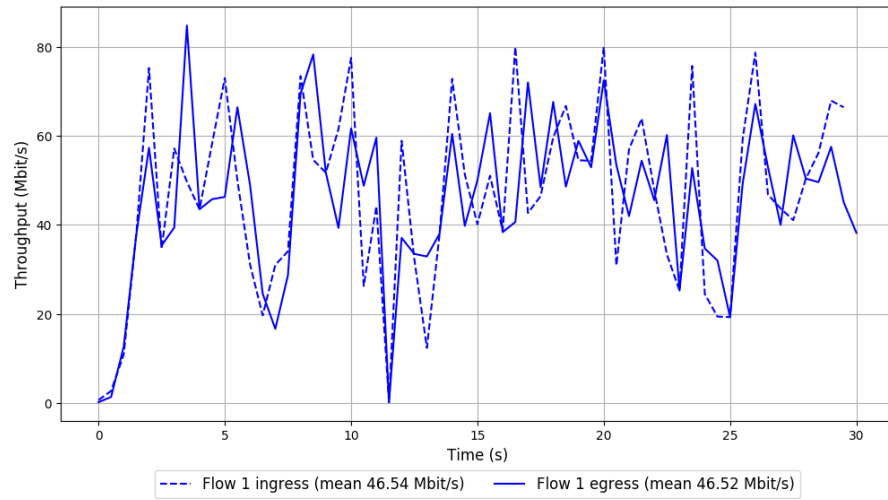
-- Flow 1:

Average throughput: 46.52 Mbit/s

95th percentile per-packet one-way delay: 120.177 ms

Loss rate: 0.02%

## Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-21 00:44:38

End at: 2017-11-21 00:45:08

# Below is generated by plot.py at 2017-11-21 02:01:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.62 Mbit/s

95th percentile per-packet one-way delay: 119.499 ms

Loss rate: 0.02%

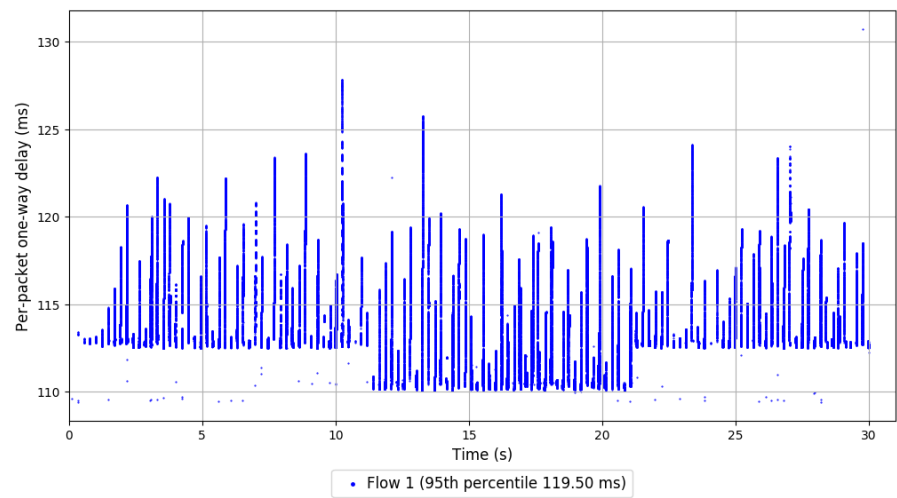
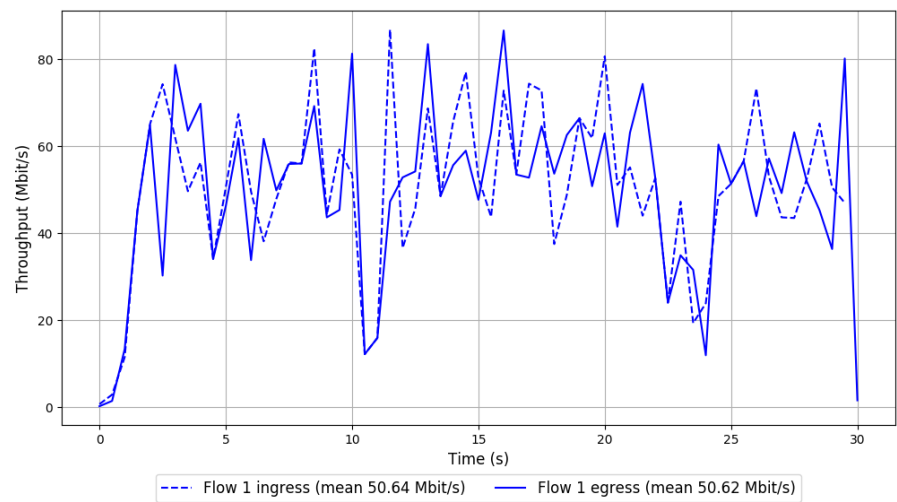
-- Flow 1:

Average throughput: 50.62 Mbit/s

95th percentile per-packet one-way delay: 119.499 ms

Loss rate: 0.02%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-21 00:55:41

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

# Below is generated by plot.py at 2017-11-21 02:01:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.76 Mbit/s

95th percentile per-packet one-way delay: 119.623 ms

Loss rate: 0.01%

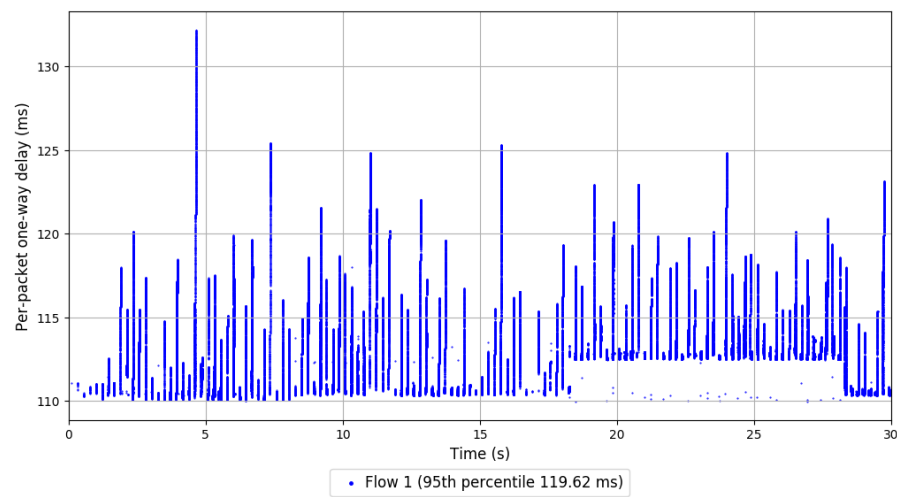
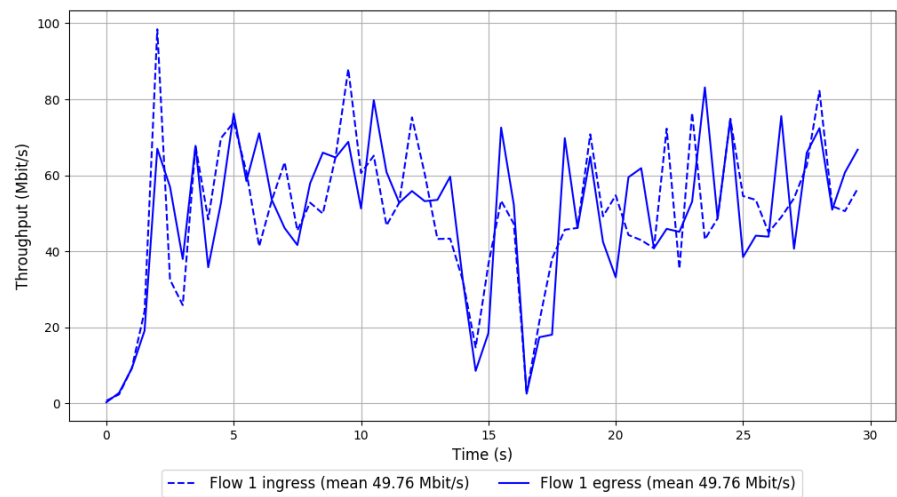
-- Flow 1:

Average throughput: 49.76 Mbit/s

95th percentile per-packet one-way delay: 119.623 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-21 01:06:53

End at: 2017-11-21 01:07:23

# Below is generated by plot.py at 2017-11-21 02:02:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 120.576 ms

Loss rate: 0.03%

-- Flow 1:

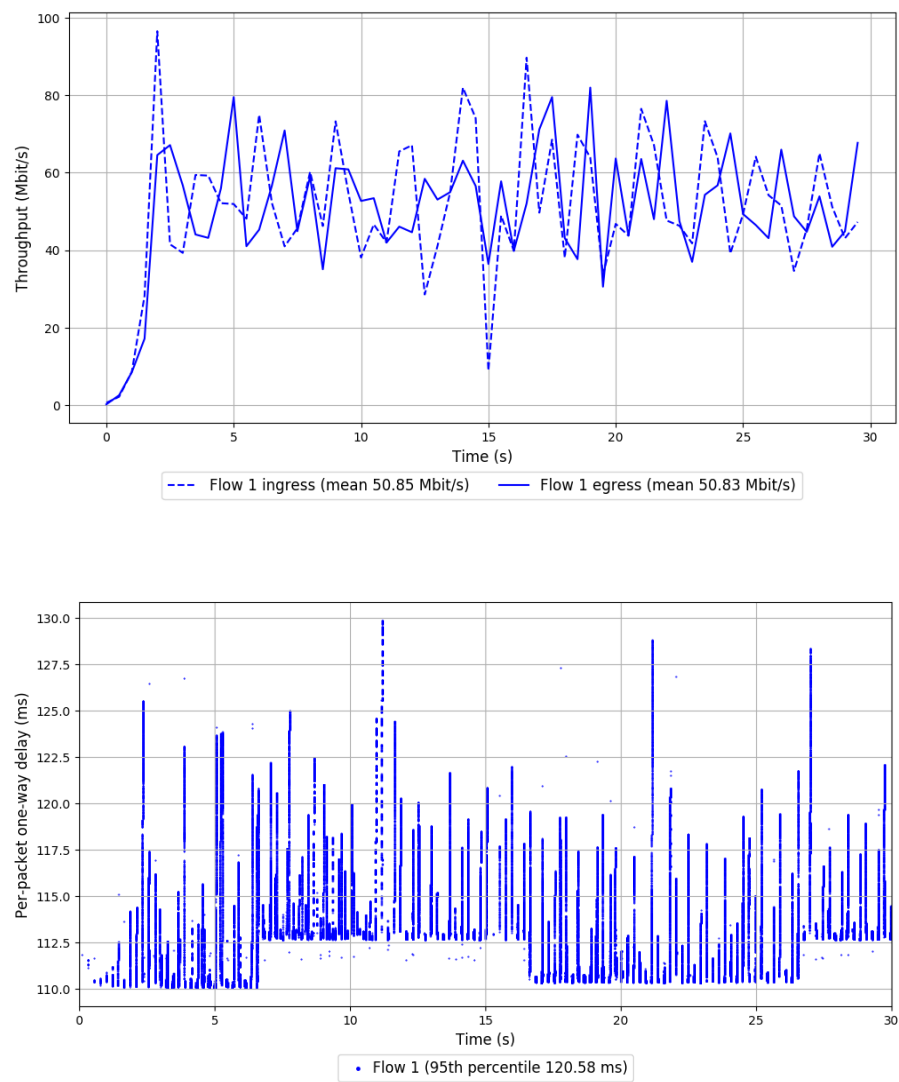
Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 120.576 ms

Loss rate: 0.03%



Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-21 01:17:52

End at: 2017-11-21 01:18:22

# Below is generated by plot.py at 2017-11-21 02:02:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 118.096 ms

Loss rate: 0.02%

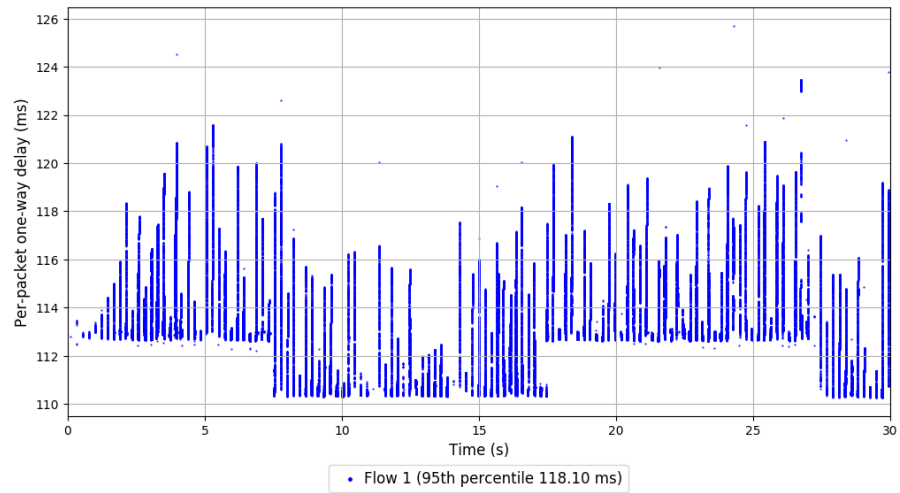
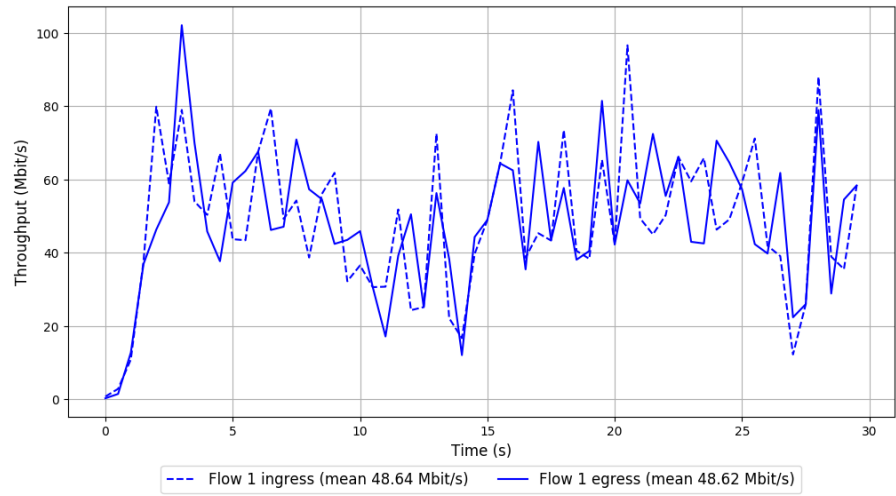
-- Flow 1:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 118.096 ms

Loss rate: 0.02%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-20 23:34:50

End at: 2017-11-20 23:35:20

# Below is generated by plot.py at 2017-11-21 02:02:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.00 Mbit/s

95th percentile per-packet one-way delay: 111.862 ms

Loss rate: 0.01%

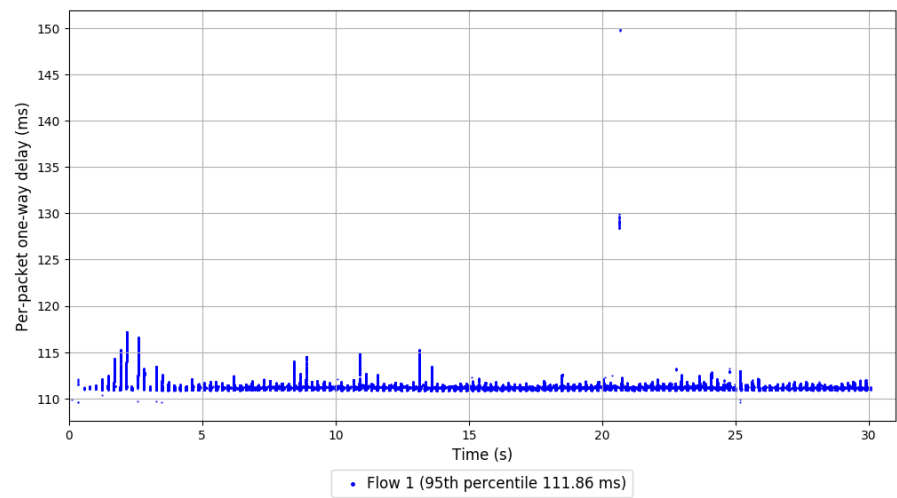
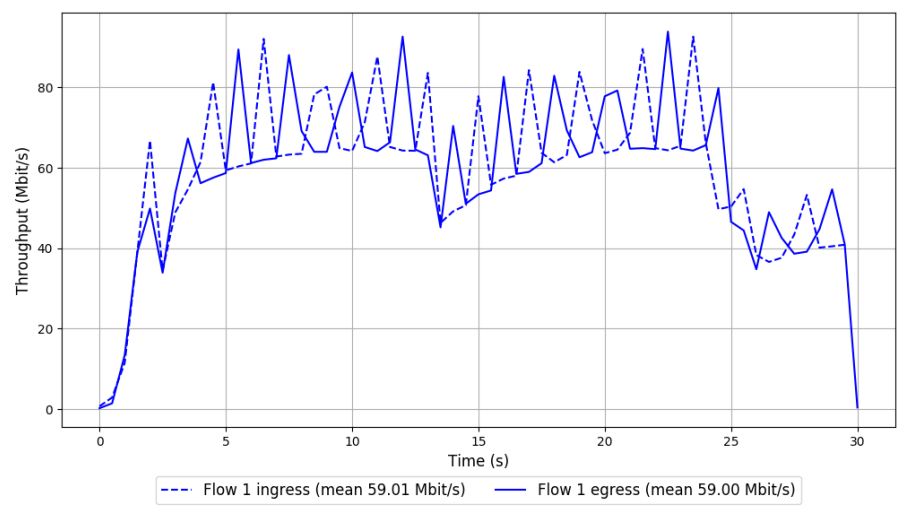
-- Flow 1:

Average throughput: 59.00 Mbit/s

95th percentile per-packet one-way delay: 111.862 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-20 23:46:12

End at: 2017-11-20 23:46:42

# Below is generated by plot.py at 2017-11-21 02:02:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 112.841 ms

Loss rate: 0.01%

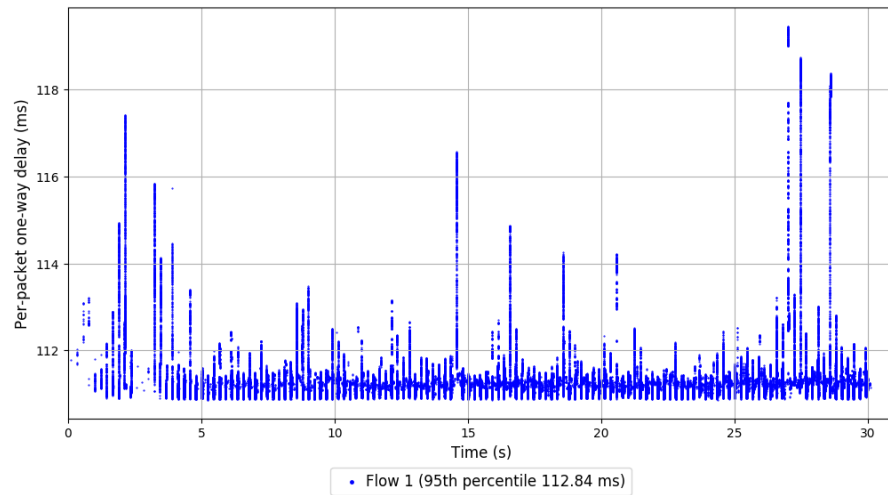
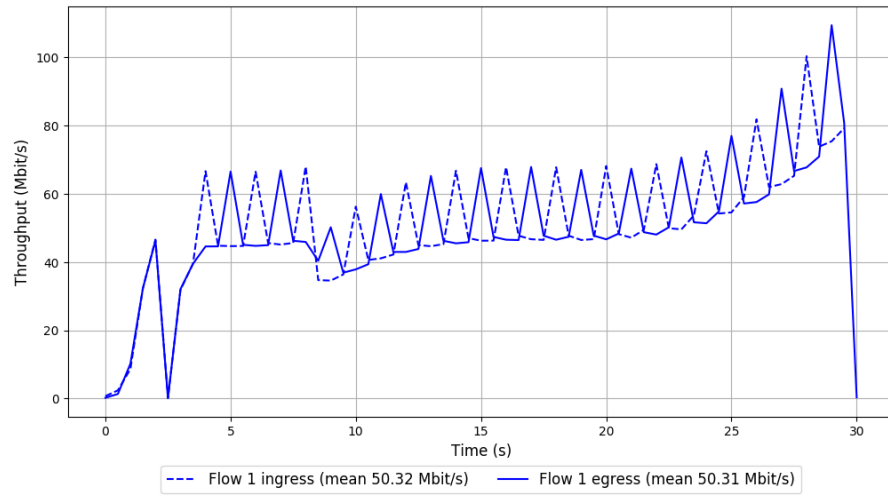
-- Flow 1:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 112.841 ms

Loss rate: 0.01%

## Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-20 23:57:24

End at: 2017-11-20 23:57:55

# Below is generated by plot.py at 2017-11-21 02:02:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.11 Mbit/s

95th percentile per-packet one-way delay: 113.509 ms

Loss rate: 0.00%

-- Flow 1:

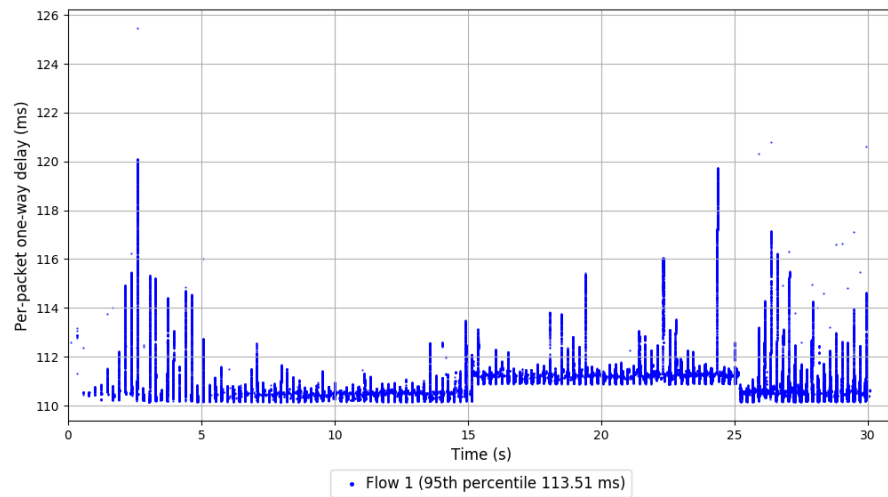
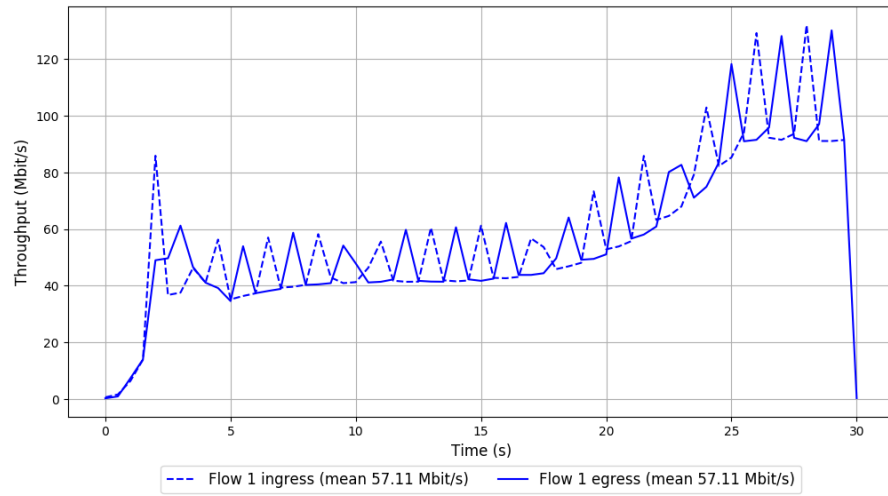
Average throughput: 57.11 Mbit/s

95th percentile per-packet one-way delay: 113.509 ms

Loss rate: 0.00%



### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-21 00:08:43

End at: 2017-11-21 00:09:13

# Below is generated by plot.py at 2017-11-21 02:02:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 41.62 Mbit/s

95th percentile per-packet one-way delay: 113.229 ms

Loss rate: 0.02%

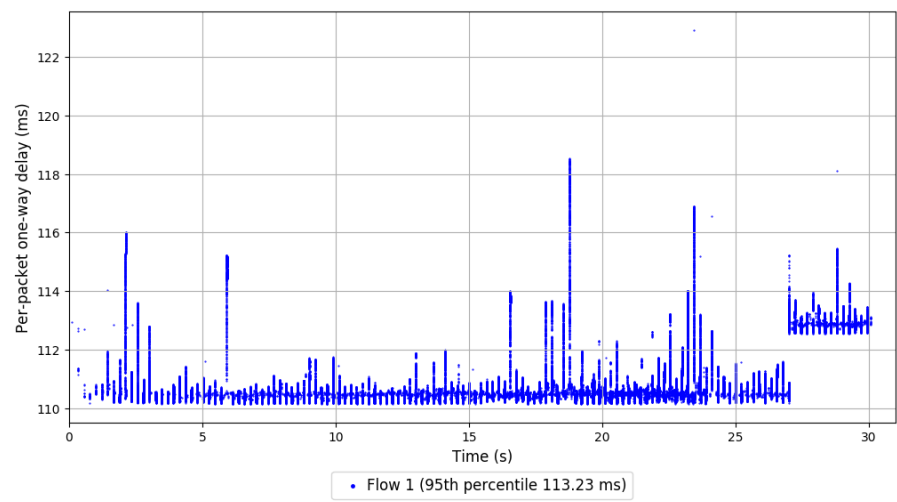
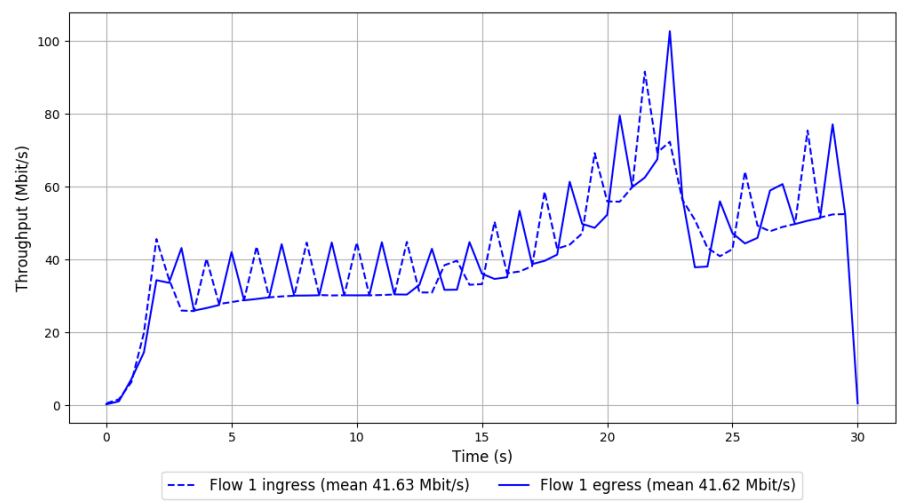
-- Flow 1:

Average throughput: 41.62 Mbit/s

95th percentile per-packet one-way delay: 113.229 ms

Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-21 00:19:52

End at: 2017-11-21 00:20:22

# Below is generated by plot.py at 2017-11-21 02:02:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.13 Mbit/s

95th percentile per-packet one-way delay: 114.324 ms

Loss rate: 0.00%

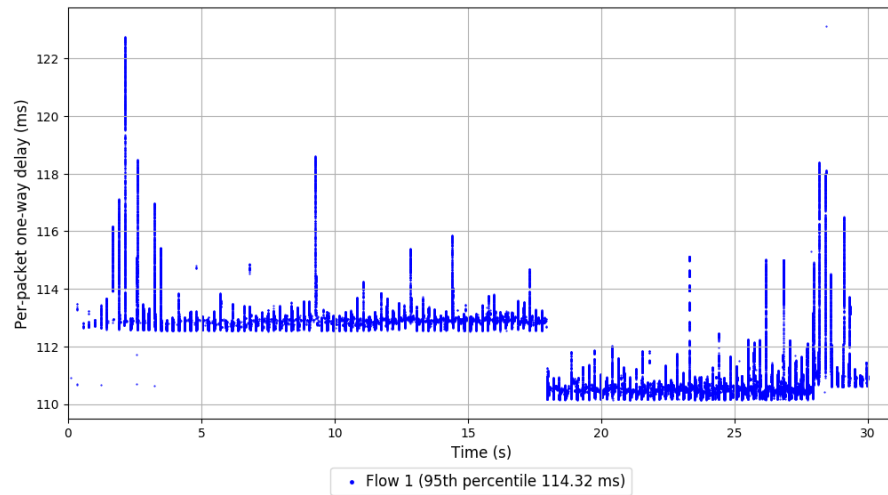
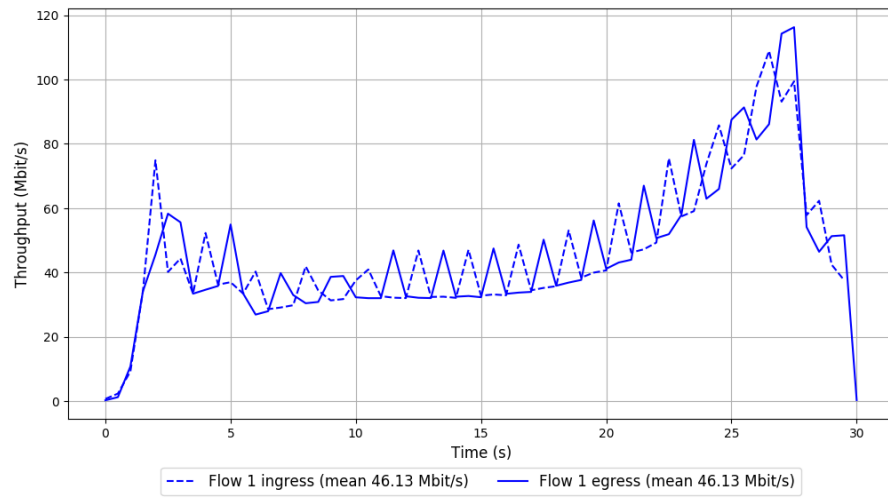
-- Flow 1:

Average throughput: 46.13 Mbit/s

95th percentile per-packet one-way delay: 114.324 ms

Loss rate: 0.00%

### Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-21 00:31:03

End at: 2017-11-21 00:31:33

# Below is generated by plot.py at 2017-11-21 02:02:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.67 Mbit/s

95th percentile per-packet one-way delay: 112.452 ms

Loss rate: 0.01%

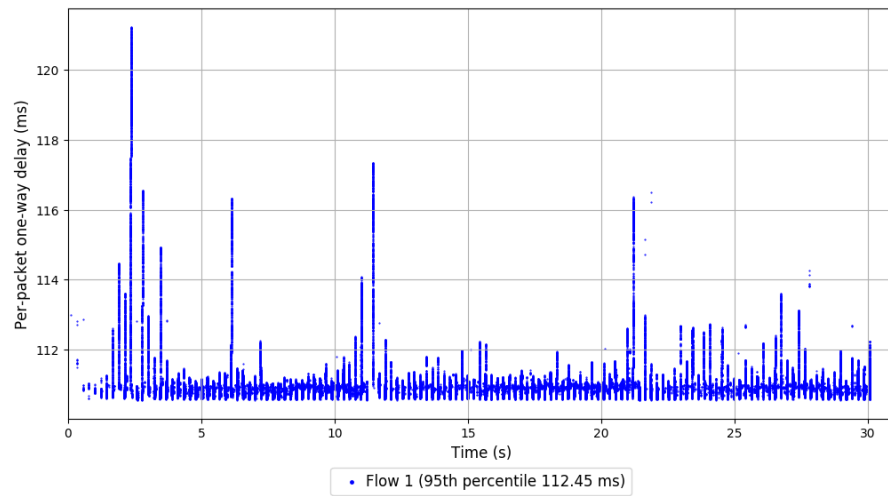
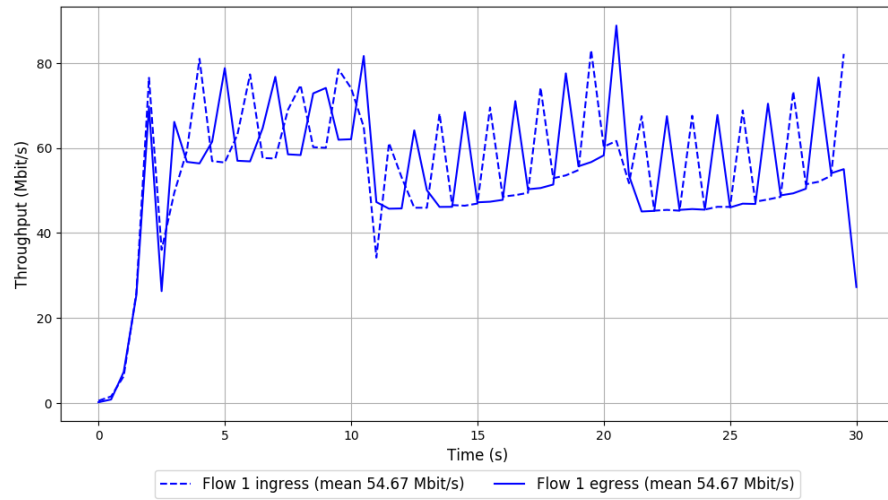
-- Flow 1:

Average throughput: 54.67 Mbit/s

95th percentile per-packet one-way delay: 112.452 ms

Loss rate: 0.01%

## Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-21 00:42:04

End at: 2017-11-21 00:42:34

# Below is generated by plot.py at 2017-11-21 02:03:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.14 Mbit/s

95th percentile per-packet one-way delay: 114.336 ms

Loss rate: 0.01%

-- Flow 1:

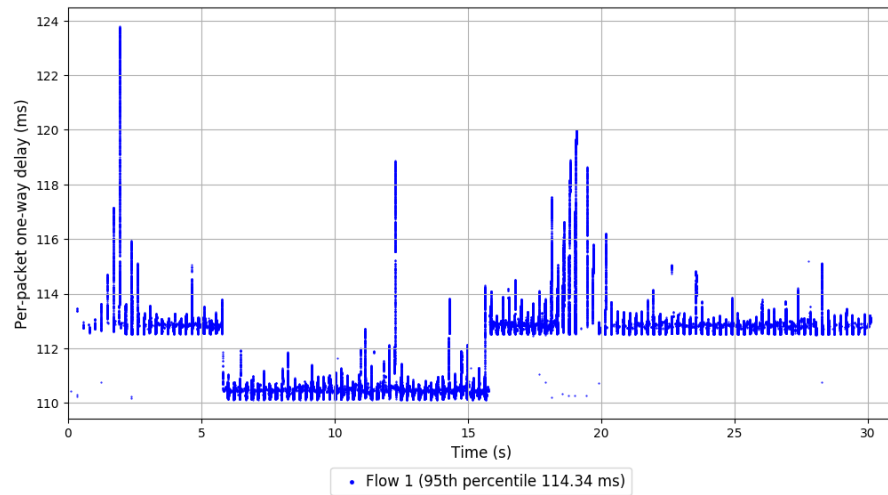
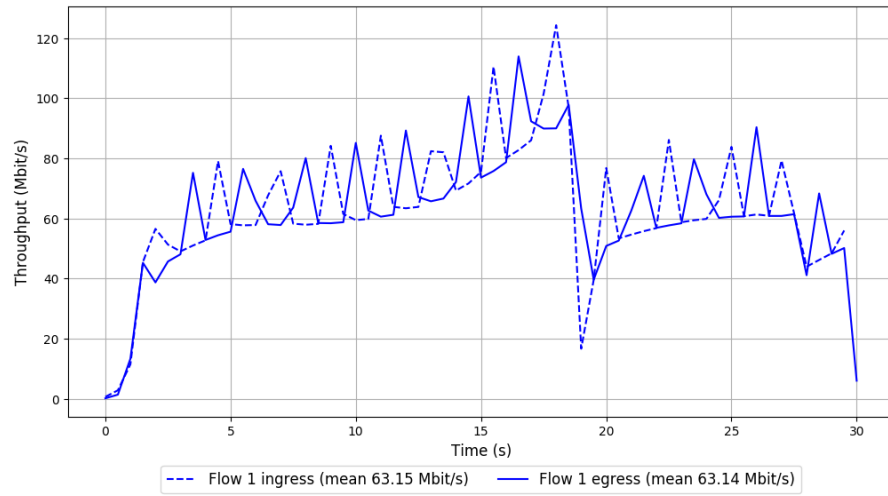
Average throughput: 63.14 Mbit/s

95th percentile per-packet one-way delay: 114.336 ms

Loss rate: 0.01%



### Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-21 00:53:16

End at: 2017-11-21 00:53:46

# Below is generated by plot.py at 2017-11-21 02:03:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 111.865 ms

Loss rate: 0.02%

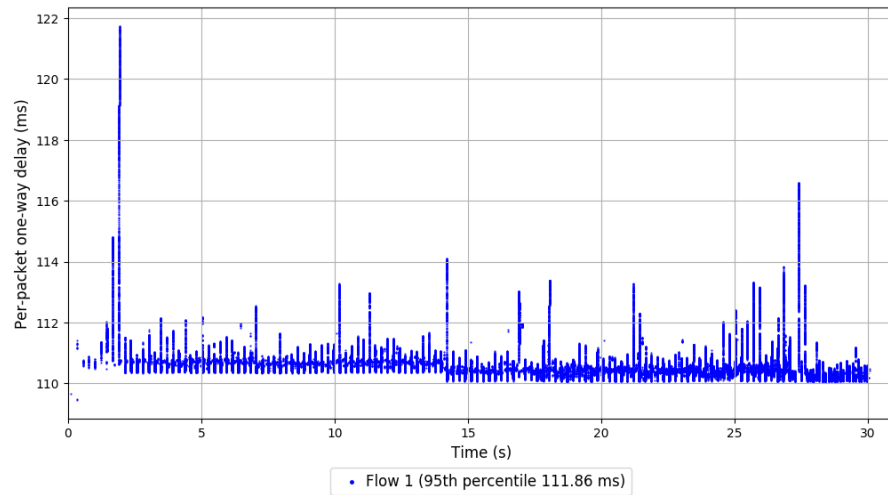
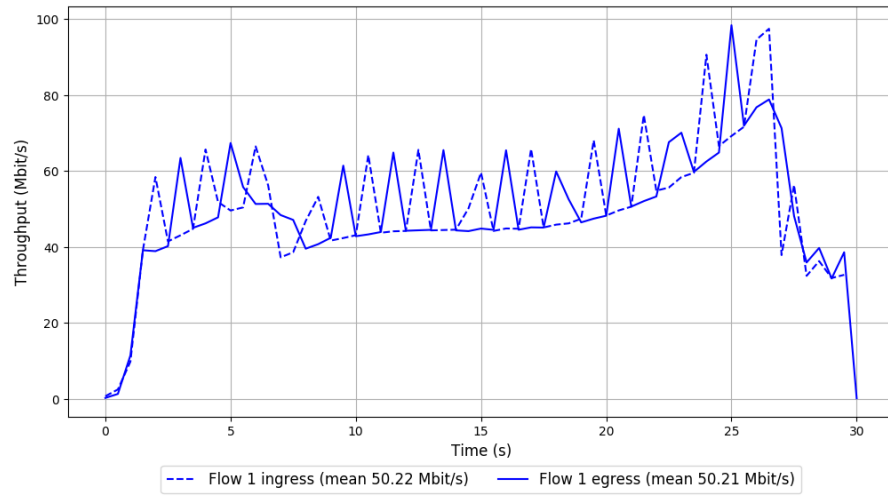
-- Flow 1:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 111.865 ms

Loss rate: 0.02%

## Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-21 01:04:31

End at: 2017-11-21 01:05:01

# Below is generated by plot.py at 2017-11-21 02:03:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.87 Mbit/s

95th percentile per-packet one-way delay: 114.883 ms

Loss rate: 0.01%

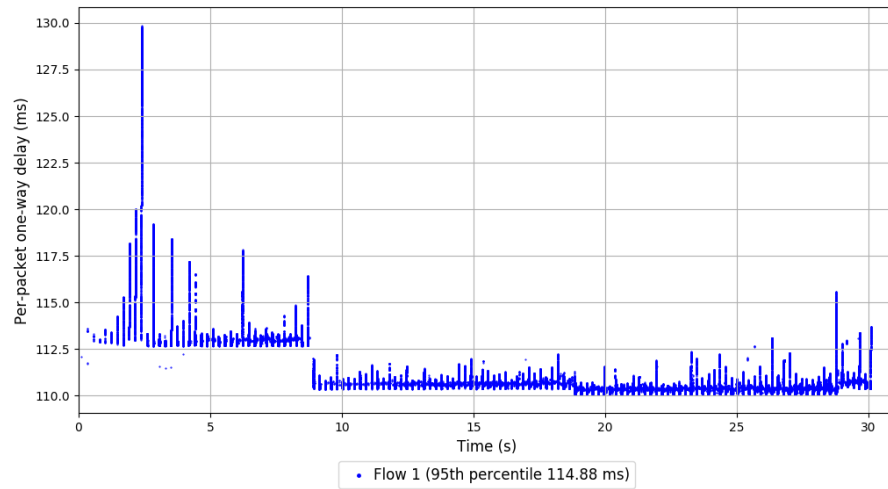
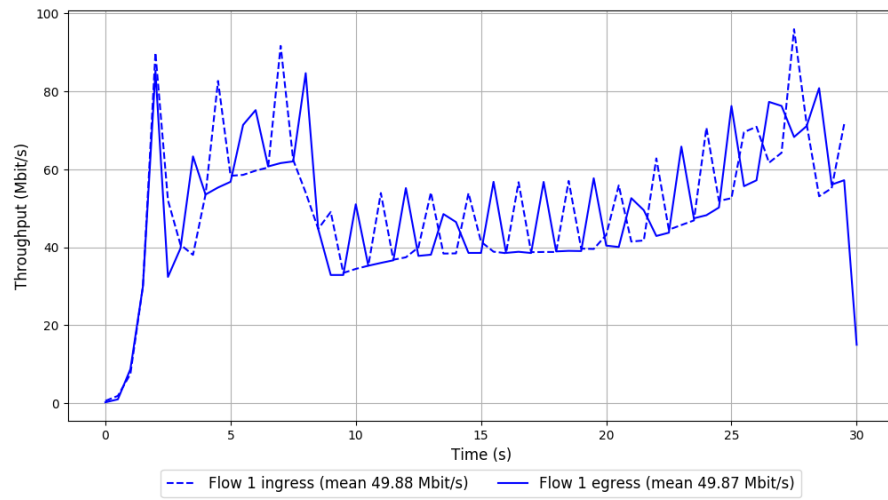
-- Flow 1:

Average throughput: 49.87 Mbit/s

95th percentile per-packet one-way delay: 114.883 ms

Loss rate: 0.01%

### Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-21 01:15:28

End at: 2017-11-21 01:15:58

# Below is generated by plot.py at 2017-11-21 02:03:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.61 Mbit/s

95th percentile per-packet one-way delay: 114.103 ms

Loss rate: 0.02%

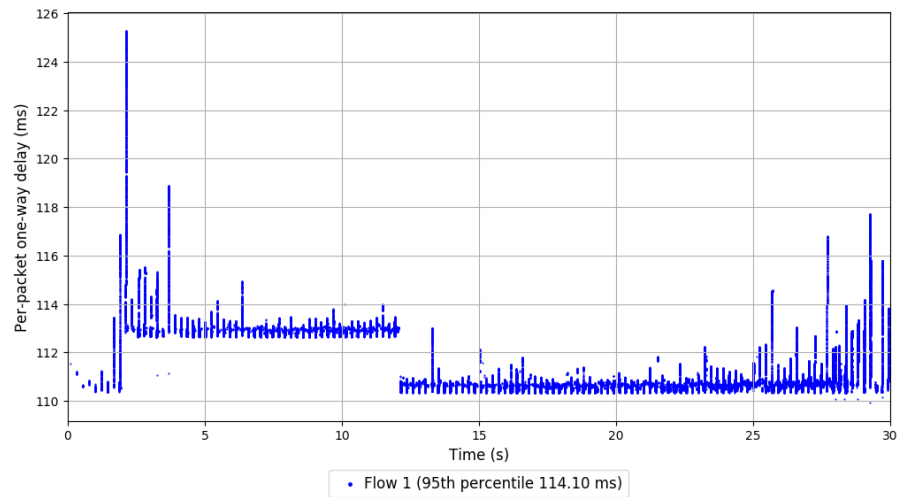
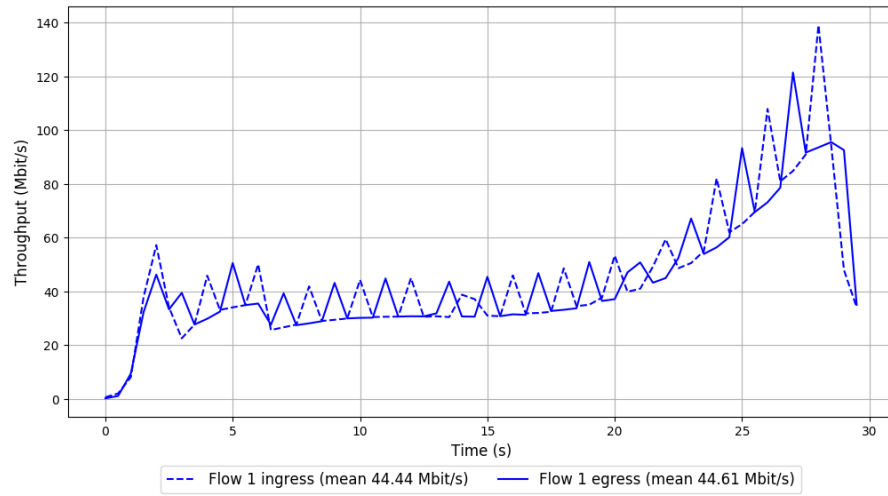
-- Flow 1:

Average throughput: 44.61 Mbit/s

95th percentile per-packet one-way delay: 114.103 ms

Loss rate: 0.02%

### Run 10: Report of TCP Cubic — Data Link



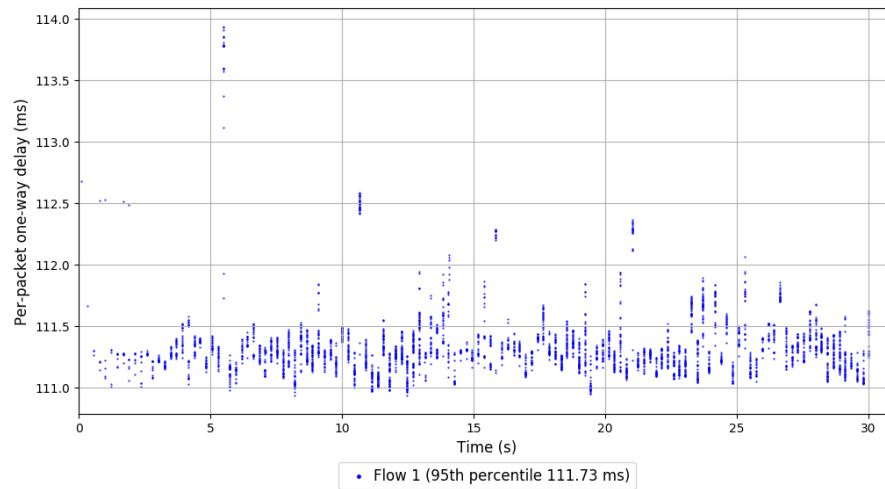
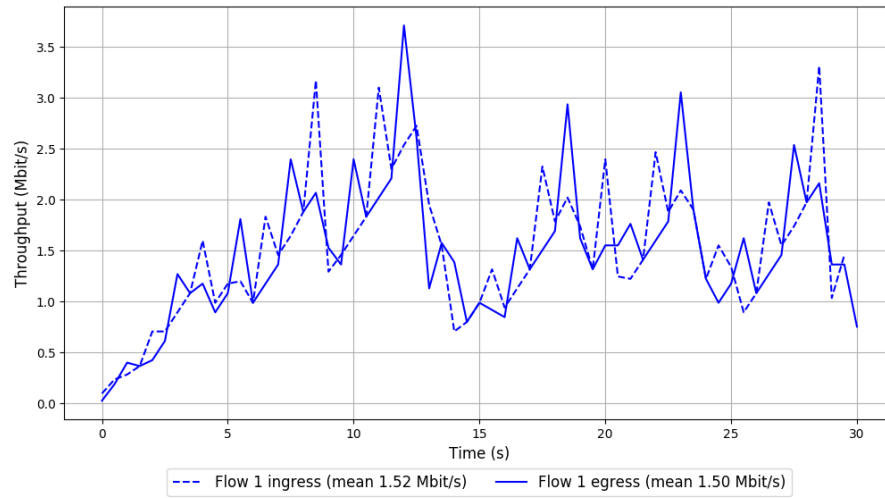
```
Run 1: Statistics of LEDBAT

Start at: 2017-11-20 23:33:26
End at: 2017-11-20 23:33:56

# Below is generated by plot.py at 2017-11-21 02:03:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 111.735 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 111.735 ms
Loss rate: 0.80%
```



# Run 1: Report of LEDBAT — Data Link

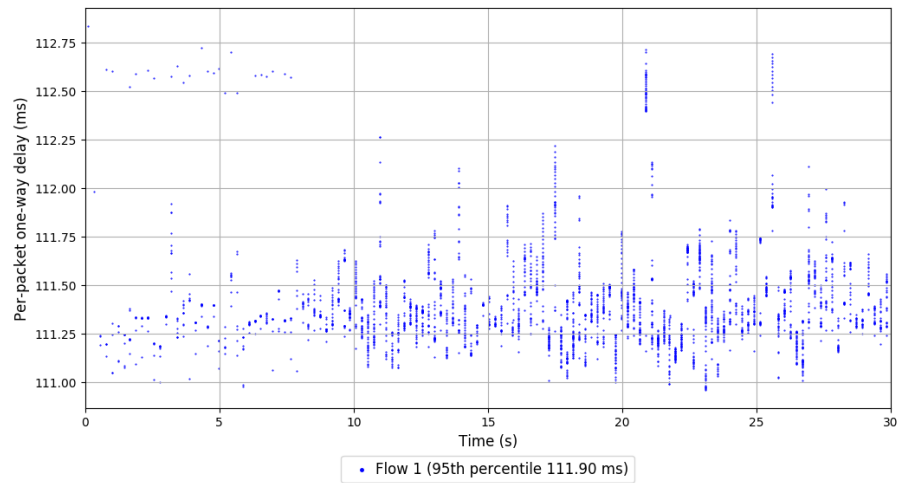
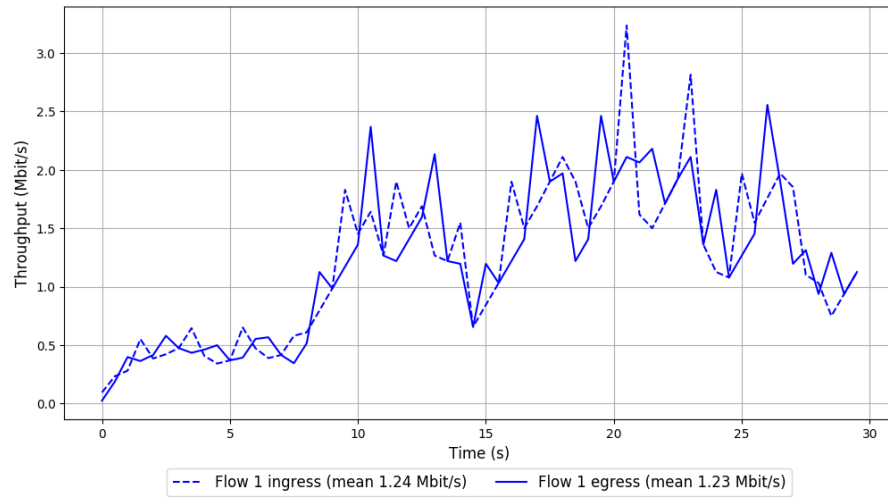


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-20 23:44:49
End at: 2017-11-20 23:45:19

# Below is generated by plot.py at 2017-11-21 02:03:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 111.899 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 111.899 ms
Loss rate: 0.32%
```

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-20 23:55:59

End at: 2017-11-20 23:56:29

# Below is generated by plot.py at 2017-11-21 02:03:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 111.109 ms

Loss rate: 0.65%

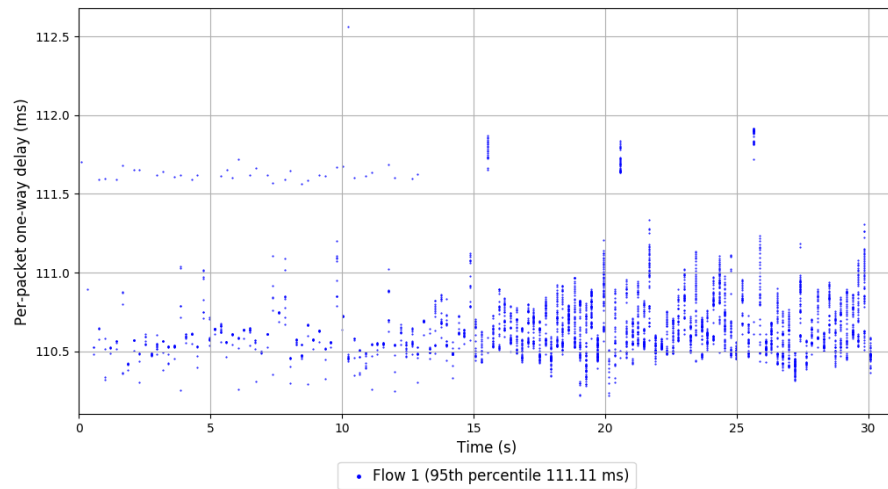
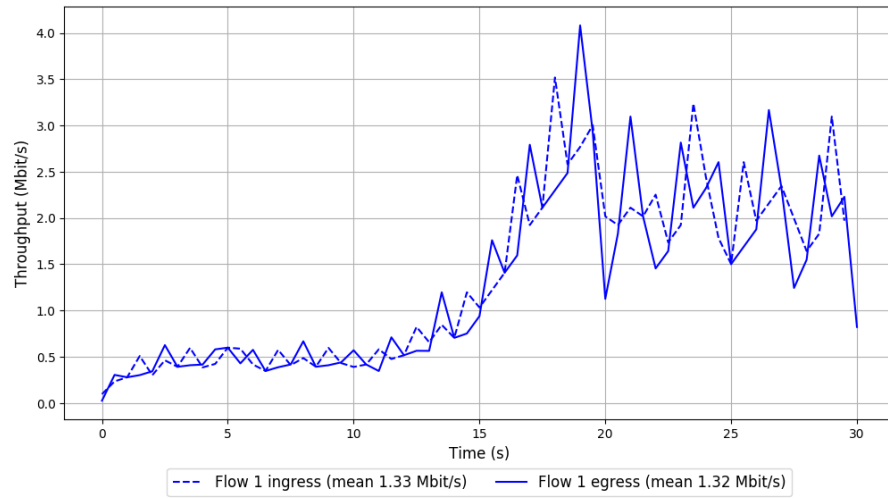
-- Flow 1:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 111.109 ms

Loss rate: 0.65%

### Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-21 00:07:19

End at: 2017-11-21 00:07:50

# Below is generated by plot.py at 2017-11-21 02:03:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 113.150 ms

Loss rate: 0.14%

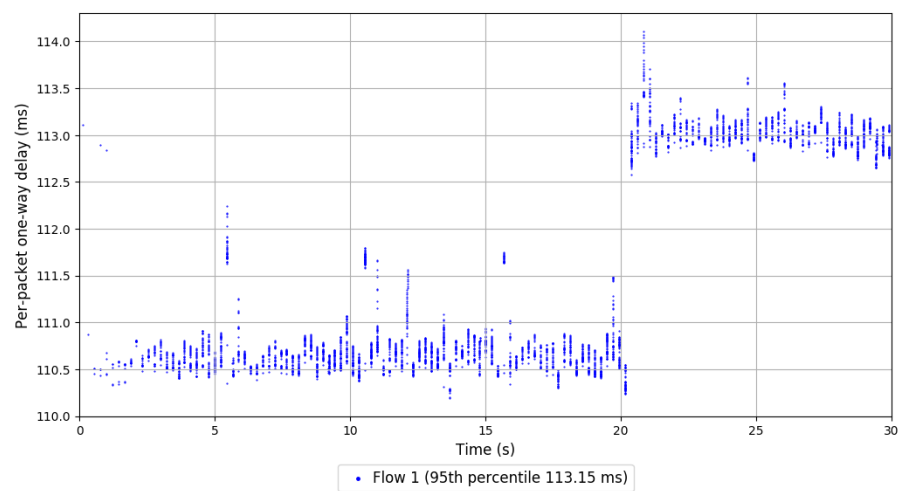
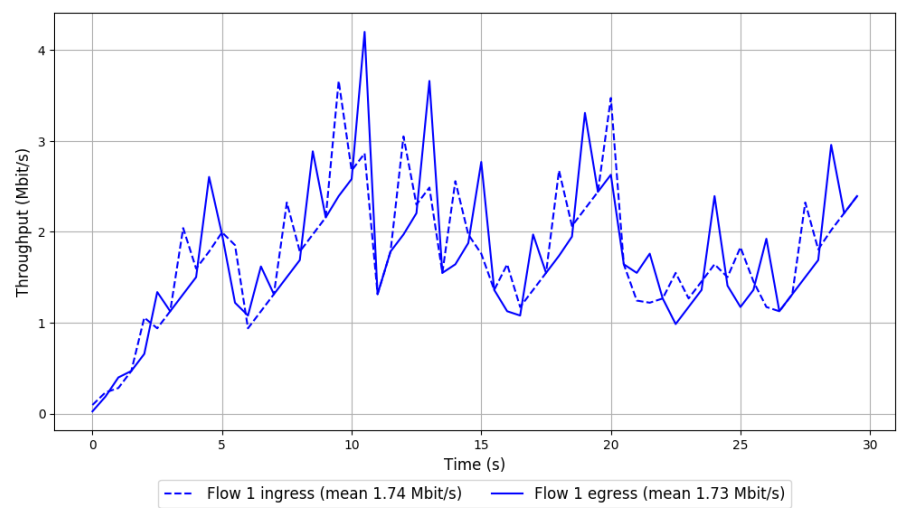
-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 113.150 ms

Loss rate: 0.14%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-21 00:18:29

End at: 2017-11-21 00:18:59

# Below is generated by plot.py at 2017-11-21 02:03:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 113.195 ms

Loss rate: 0.78%

-- Flow 1:

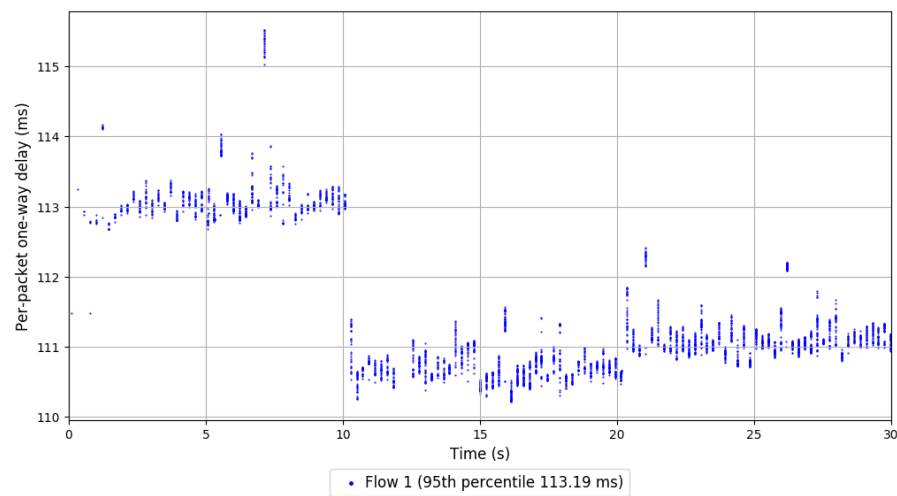
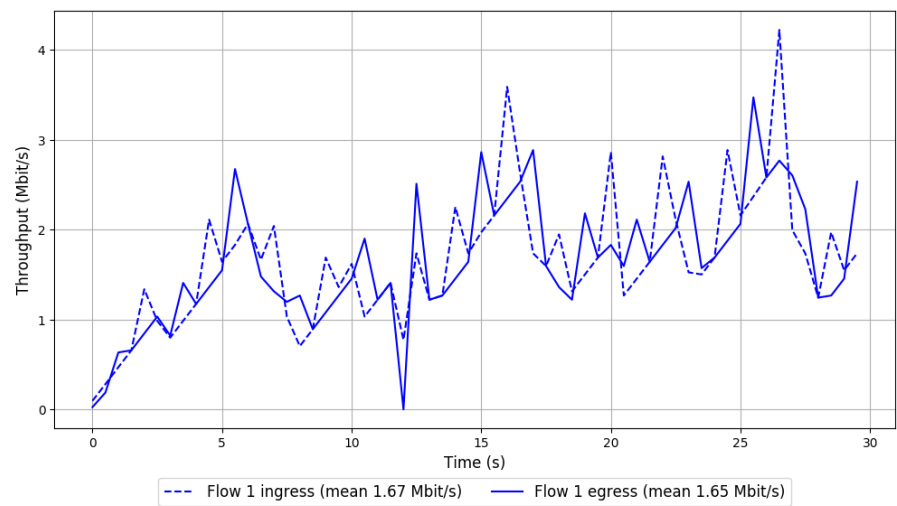
Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 113.195 ms

Loss rate: 0.78%



Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-21 00:29:39

End at: 2017-11-21 00:30:09

# Below is generated by plot.py at 2017-11-21 02:03:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 113.203 ms

Loss rate: 0.33%

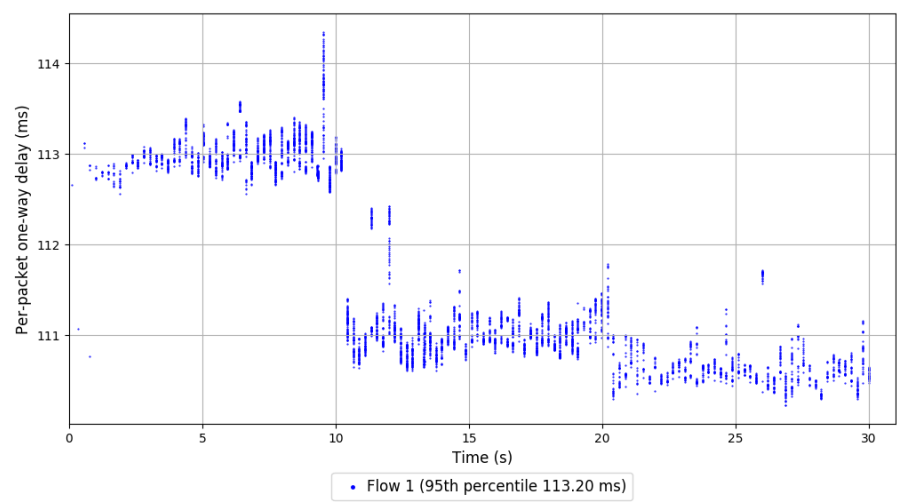
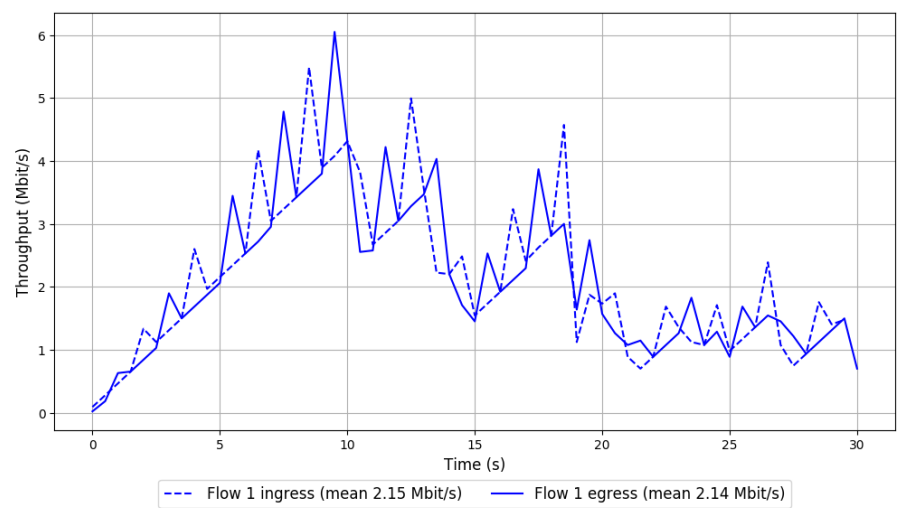
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 113.203 ms

Loss rate: 0.33%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-21 00:40:41

End at: 2017-11-21 00:41:11

# Below is generated by plot.py at 2017-11-21 02:03:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 113.240 ms

Loss rate: 0.58%

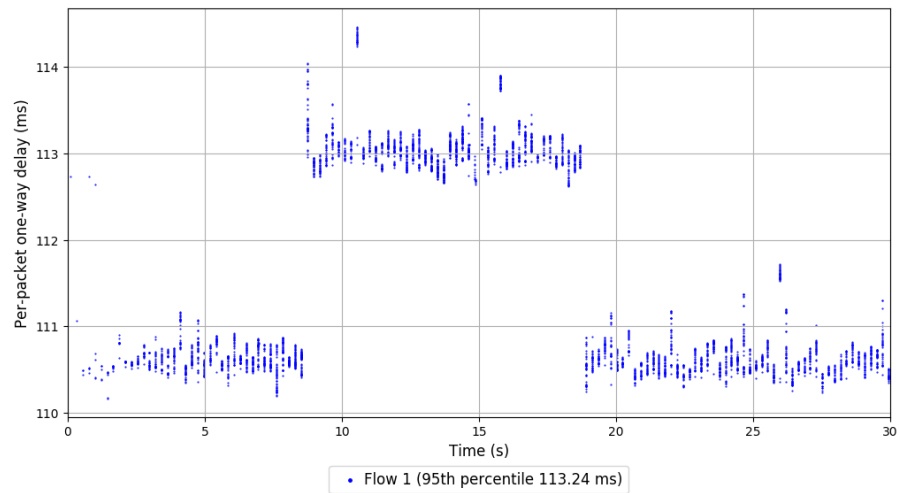
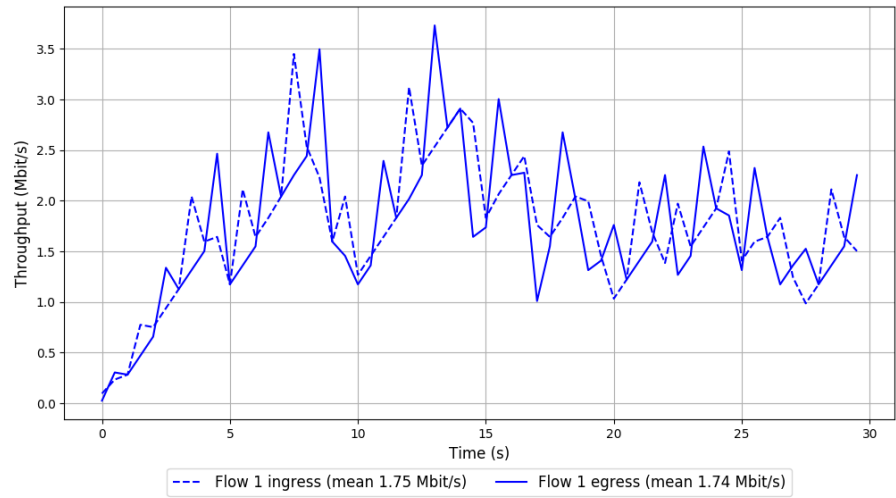
-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 113.240 ms

Loss rate: 0.58%

## Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-21 00:51:53

End at: 2017-11-21 00:52:23

# Below is generated by plot.py at 2017-11-21 02:03:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 111.316 ms

Loss rate: 0.09%

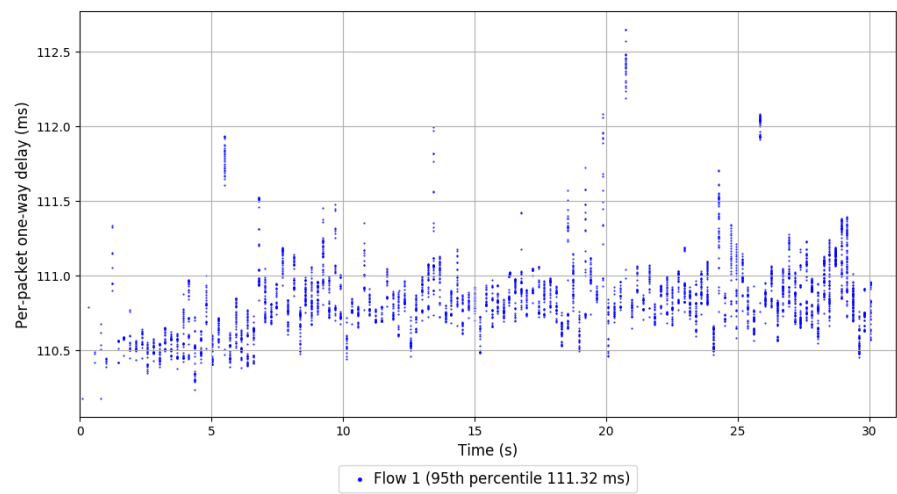
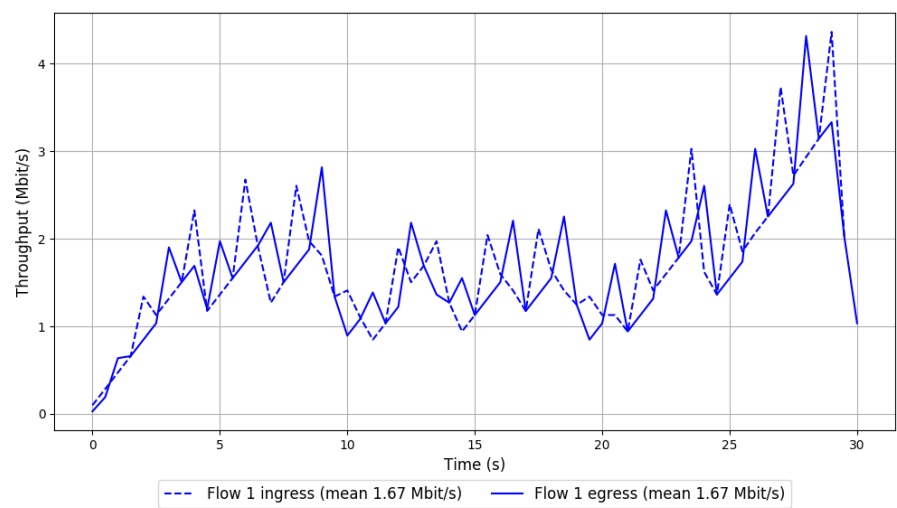
-- Flow 1:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 111.316 ms

Loss rate: 0.09%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-21 01:03:06

End at: 2017-11-21 01:03:36

# Below is generated by plot.py at 2017-11-21 02:03:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 113.293 ms

Loss rate: 0.37%

-- Flow 1:

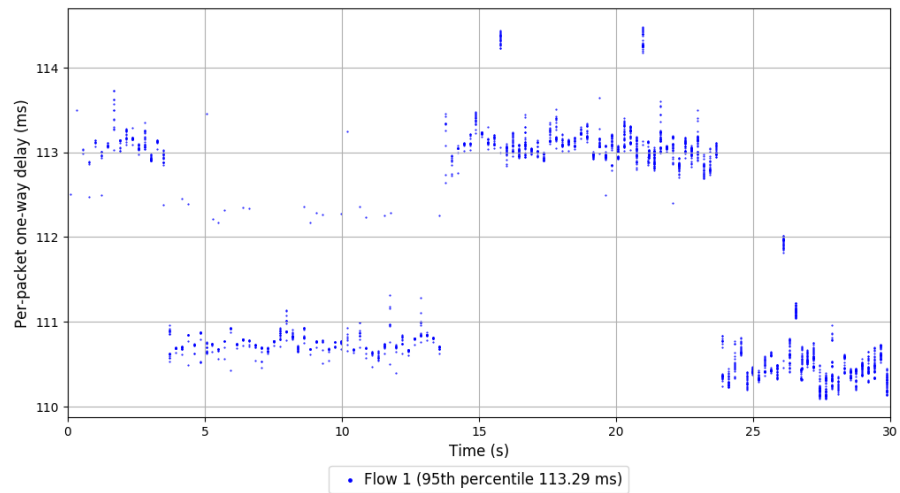
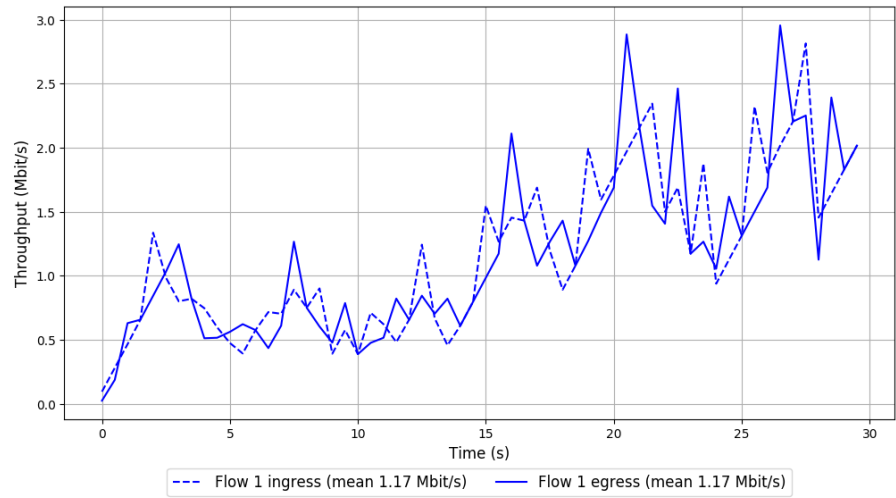
Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 113.293 ms

Loss rate: 0.37%



### Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-21 01:14:05

End at: 2017-11-21 01:14:35

# Below is generated by plot.py at 2017-11-21 02:03:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 113.079 ms

Loss rate: 0.61%

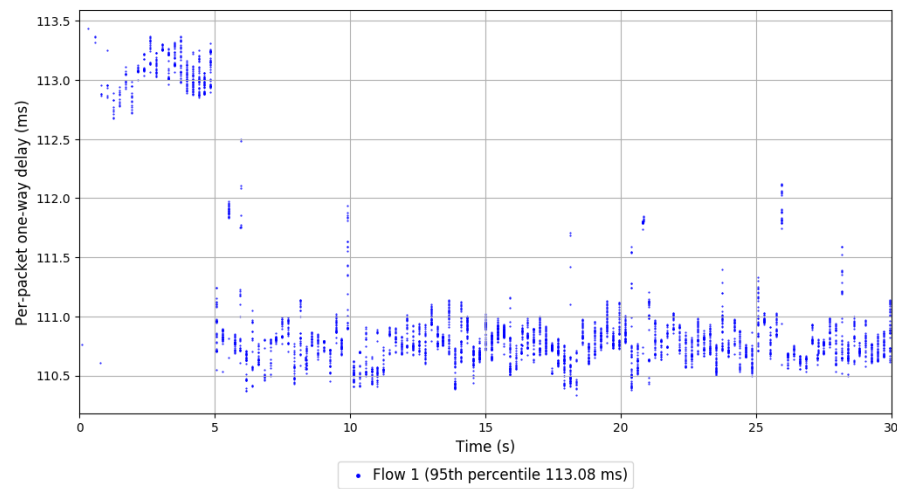
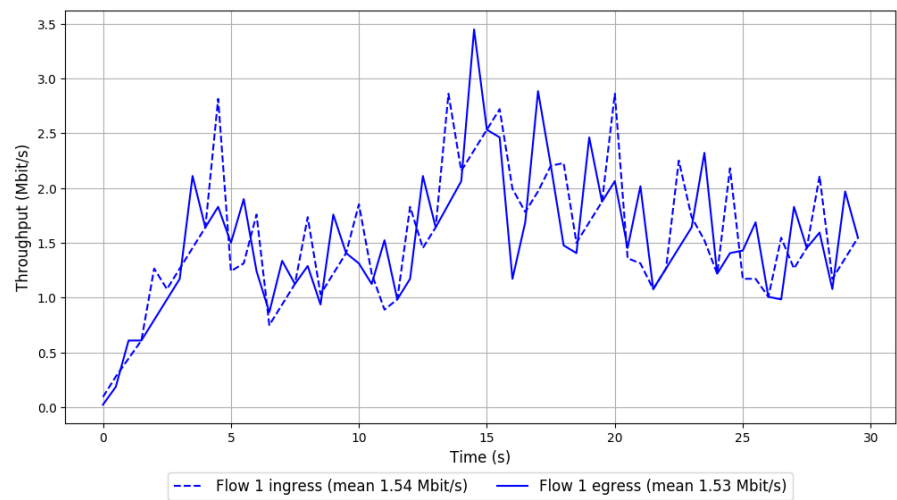
-- Flow 1:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 113.079 ms

Loss rate: 0.61%

Run 10: Report of LEDBAT — Data Link

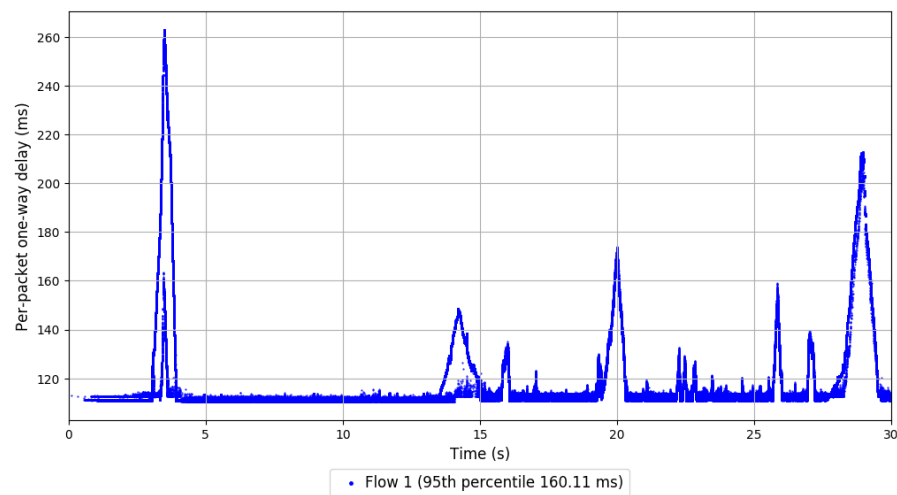
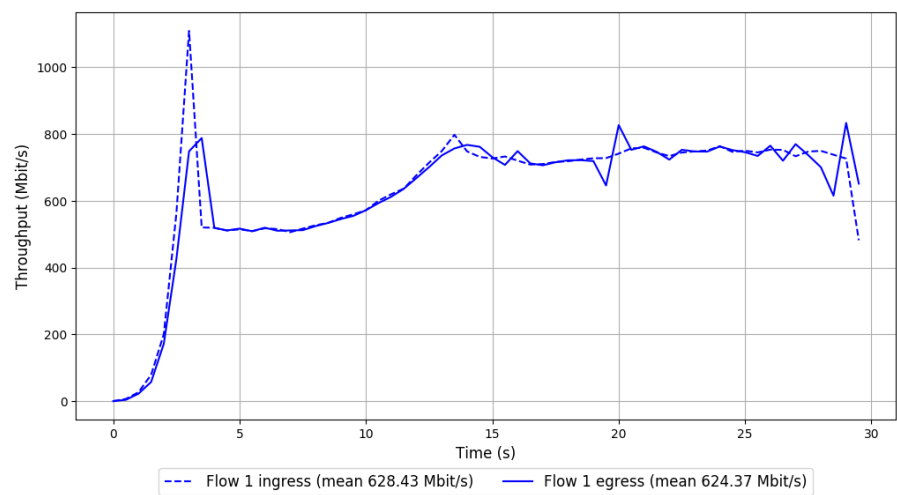


```
Run 1: Statistics of PCC

Start at: 2017-11-20 23:41:15
End at: 2017-11-20 23:41:45

# Below is generated by plot.py at 2017-11-21 02:13:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 624.37 Mbit/s
95th percentile per-packet one-way delay: 160.113 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 624.37 Mbit/s
95th percentile per-packet one-way delay: 160.113 ms
Loss rate: 0.65%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-20 23:52:28

End at: 2017-11-20 23:52:58

# Below is generated by plot.py at 2017-11-21 02:13:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 603.27 Mbit/s

95th percentile per-packet one-way delay: 210.292 ms

Loss rate: 0.94%

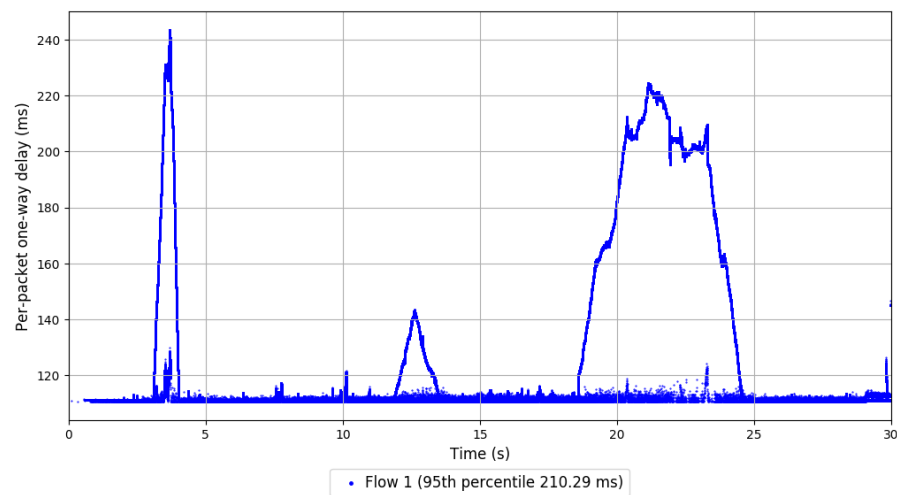
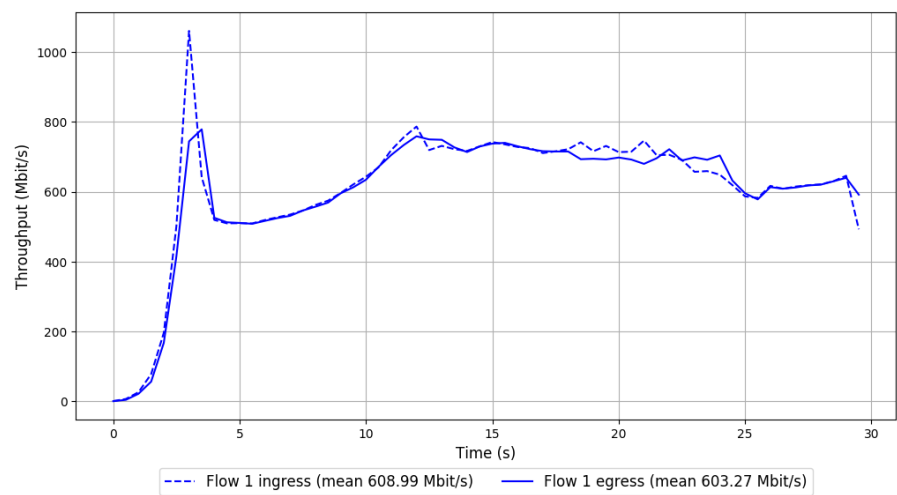
-- Flow 1:

Average throughput: 603.27 Mbit/s

95th percentile per-packet one-way delay: 210.292 ms

Loss rate: 0.94%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-21 00:03:48

End at: 2017-11-21 00:04:18

# Below is generated by plot.py at 2017-11-21 02:13:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 621.79 Mbit/s

95th percentile per-packet one-way delay: 216.419 ms

Loss rate: 0.94%

-- Flow 1:

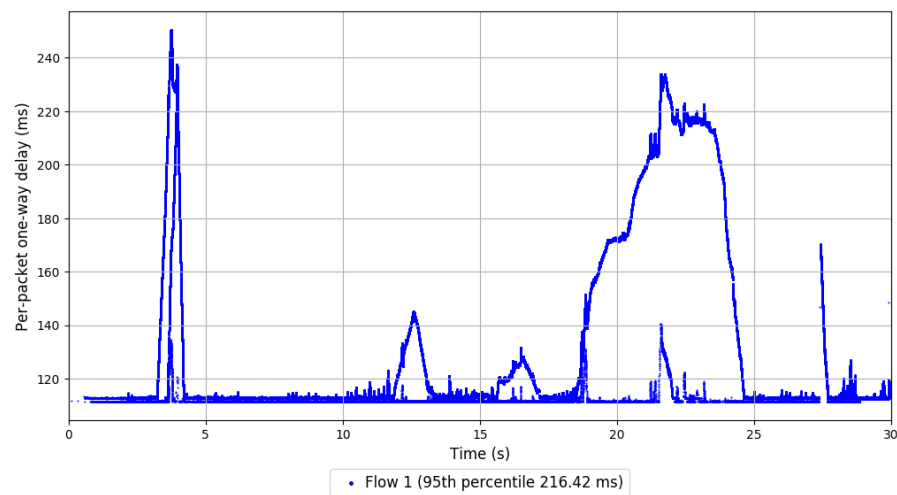
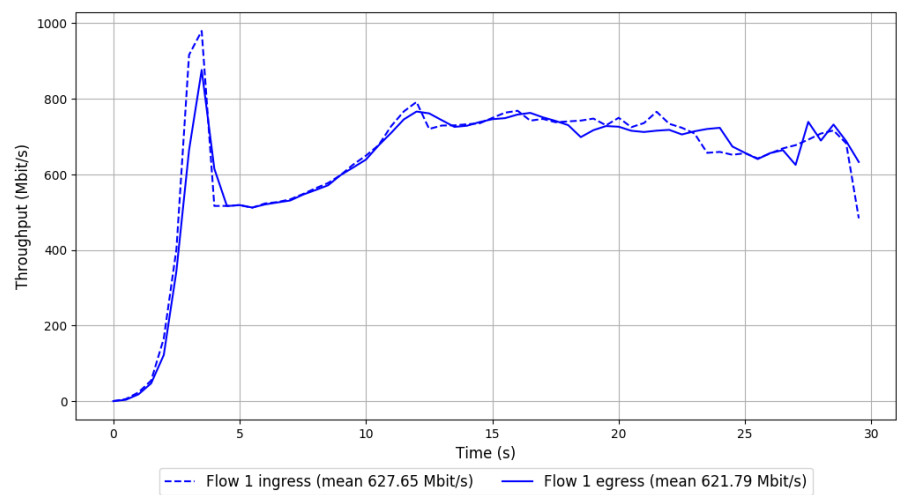
Average throughput: 621.79 Mbit/s

95th percentile per-packet one-way delay: 216.419 ms

Loss rate: 0.94%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-21 00:15:04

End at: 2017-11-21 00:15:34

# Below is generated by plot.py at 2017-11-21 02:13:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 616.21 Mbit/s

95th percentile per-packet one-way delay: 184.883 ms

Loss rate: 0.89%

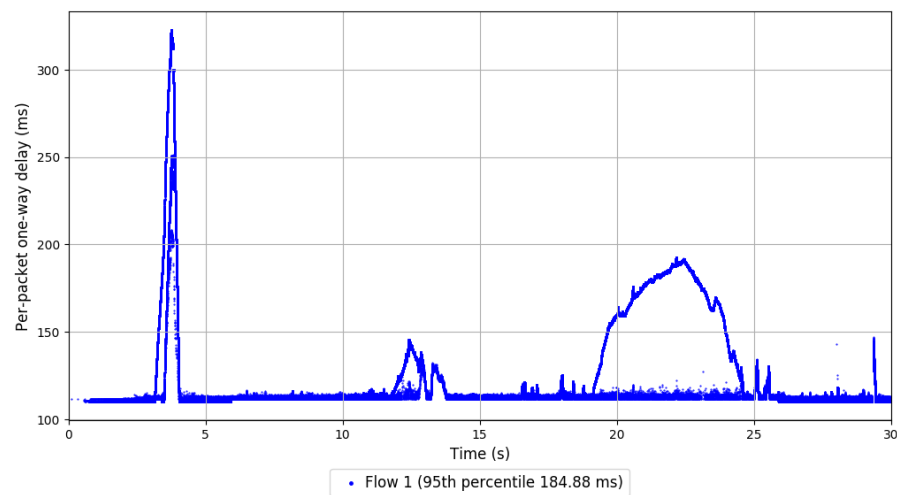
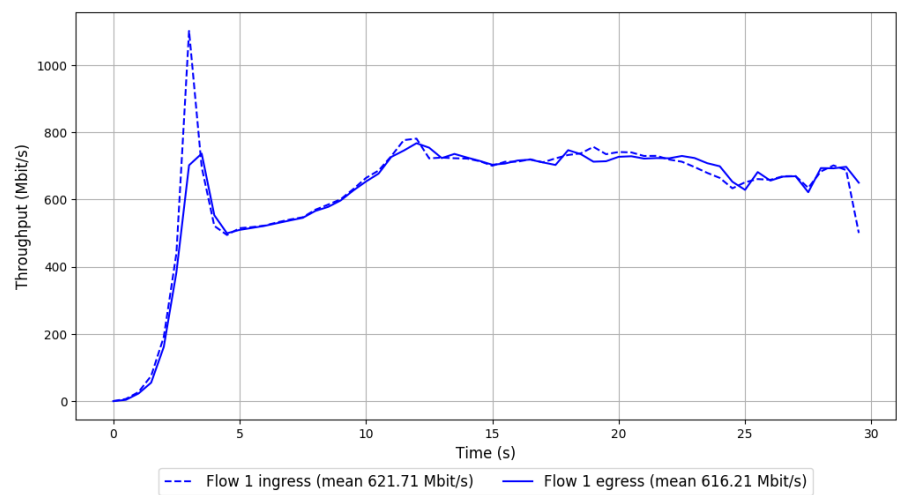
-- Flow 1:

Average throughput: 616.21 Mbit/s

95th percentile per-packet one-way delay: 184.883 ms

Loss rate: 0.89%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-21 00:26:11

End at: 2017-11-21 00:26:41

# Below is generated by plot.py at 2017-11-21 02:13:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 581.73 Mbit/s

95th percentile per-packet one-way delay: 131.736 ms

Loss rate: 0.77%

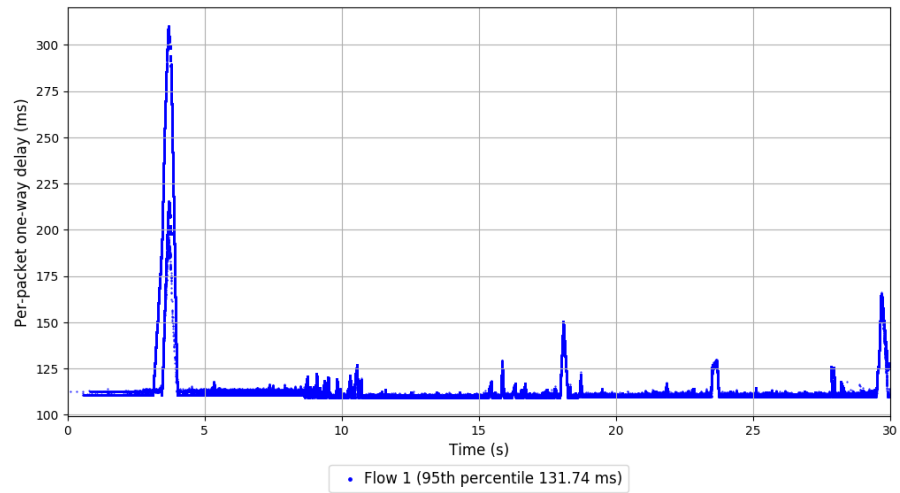
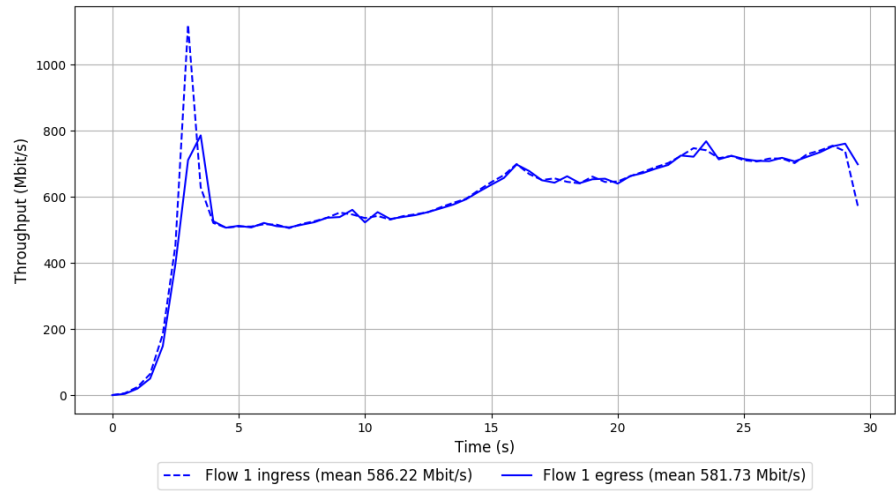
-- Flow 1:

Average throughput: 581.73 Mbit/s

95th percentile per-packet one-way delay: 131.736 ms

Loss rate: 0.77%

## Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-21 00:37:29

End at: 2017-11-21 00:37:59

# Below is generated by plot.py at 2017-11-21 02:13:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 592.35 Mbit/s

95th percentile per-packet one-way delay: 155.646 ms

Loss rate: 1.03%

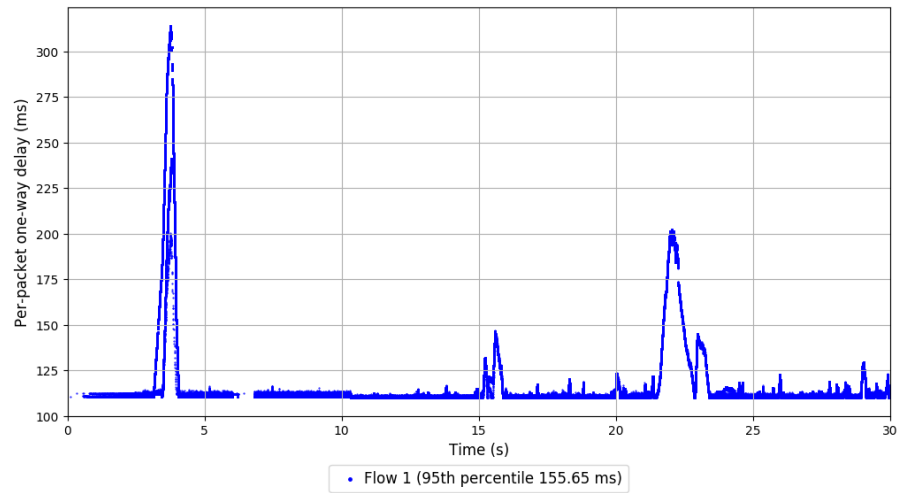
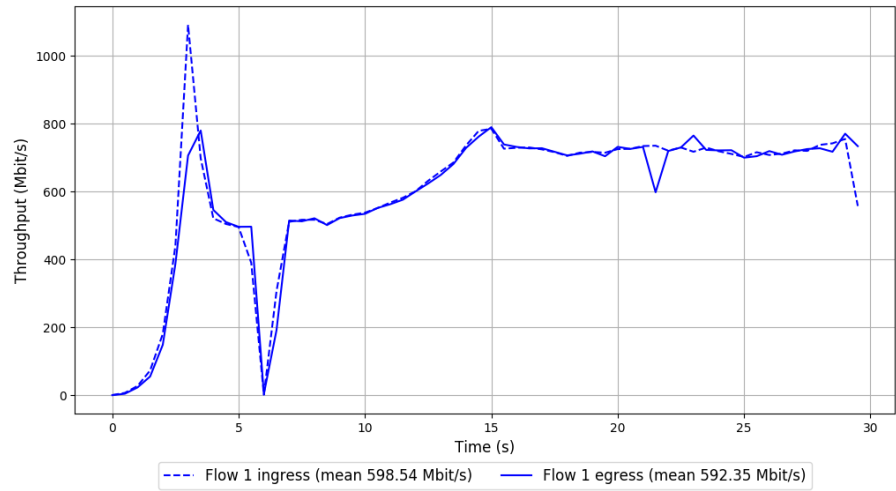
-- Flow 1:

Average throughput: 592.35 Mbit/s

95th percentile per-packet one-way delay: 155.646 ms

Loss rate: 1.03%

## Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-21 00:48:36

End at: 2017-11-21 00:49:06

# Below is generated by plot.py at 2017-11-21 02:14:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 621.78 Mbit/s

95th percentile per-packet one-way delay: 138.116 ms

Loss rate: 0.46%

-- Flow 1:

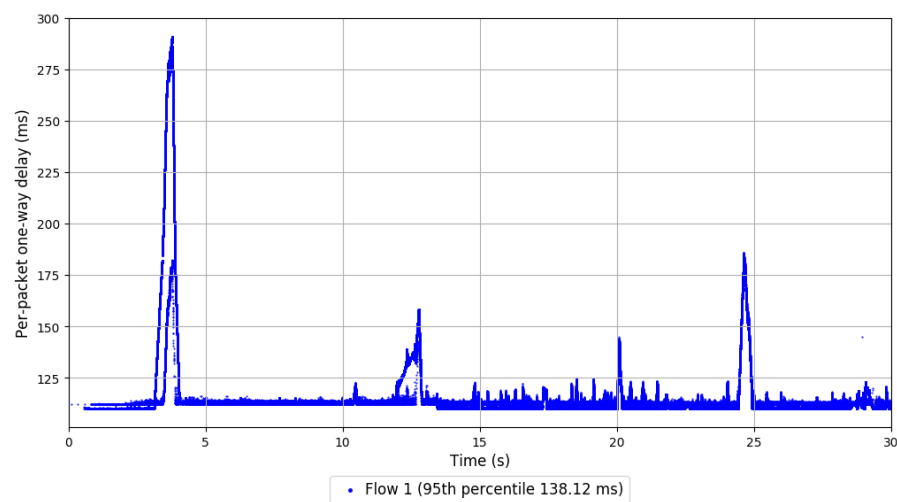
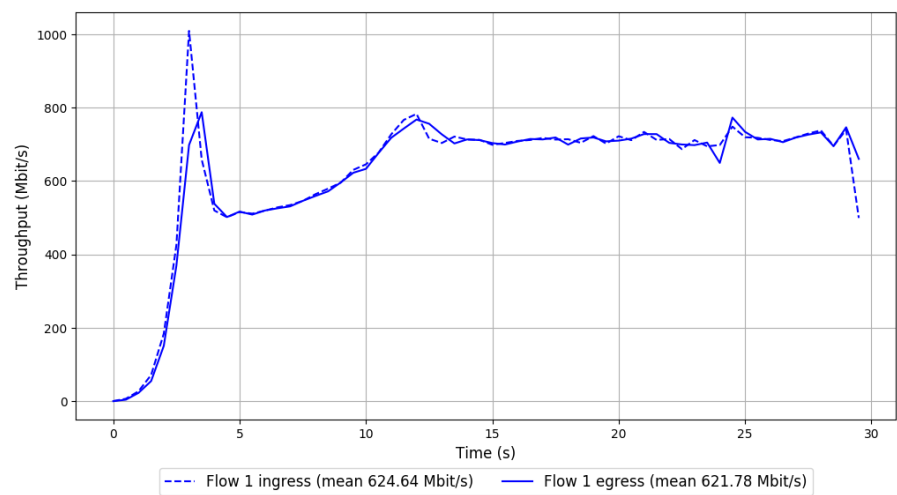
Average throughput: 621.78 Mbit/s

95th percentile per-packet one-way delay: 138.116 ms

Loss rate: 0.46%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-21 00:59:38

End at: 2017-11-21 01:00:08

# Below is generated by plot.py at 2017-11-21 02:14:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 605.02 Mbit/s

95th percentile per-packet one-way delay: 219.538 ms

Loss rate: 1.48%

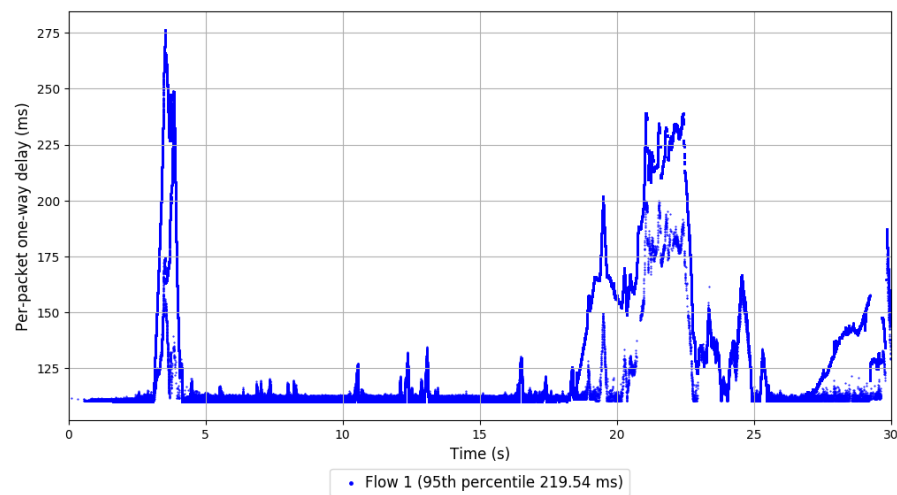
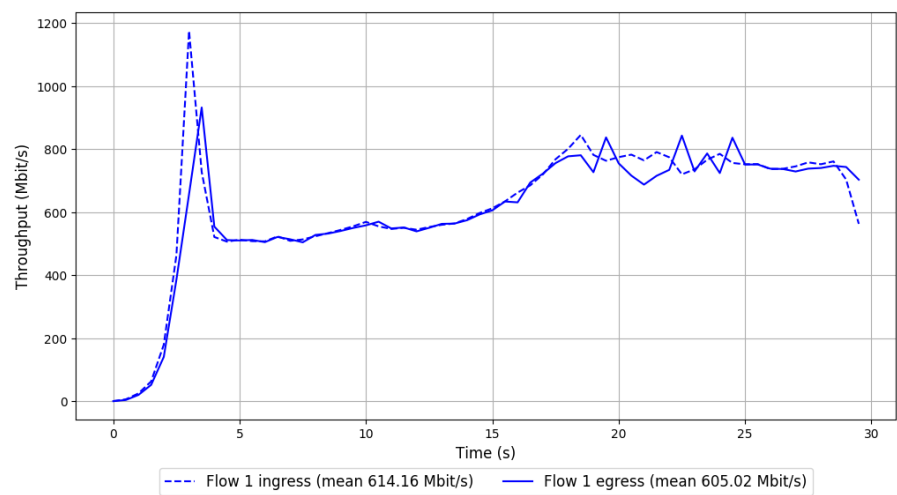
-- Flow 1:

Average throughput: 605.02 Mbit/s

95th percentile per-packet one-way delay: 219.538 ms

Loss rate: 1.48%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-21 01:10:50

End at: 2017-11-21 01:11:20

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 617.72 Mbit/s

95th percentile per-packet one-way delay: 183.224 ms

Loss rate: 0.65%

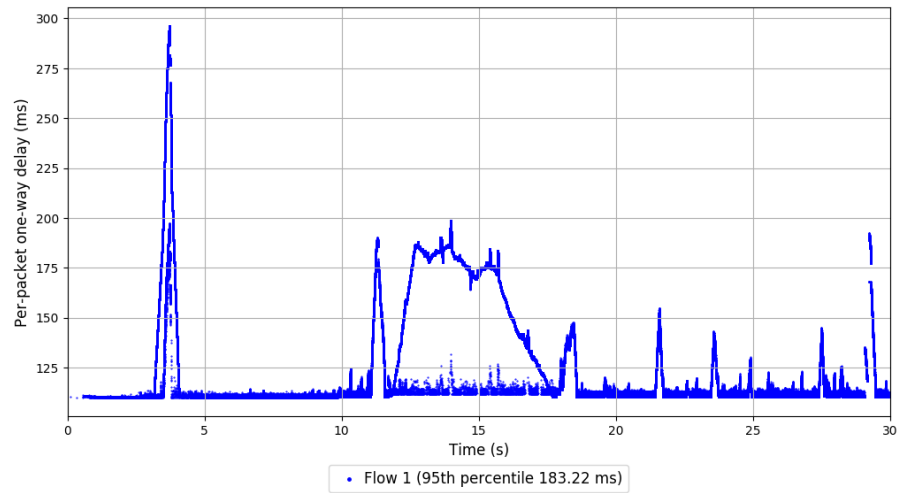
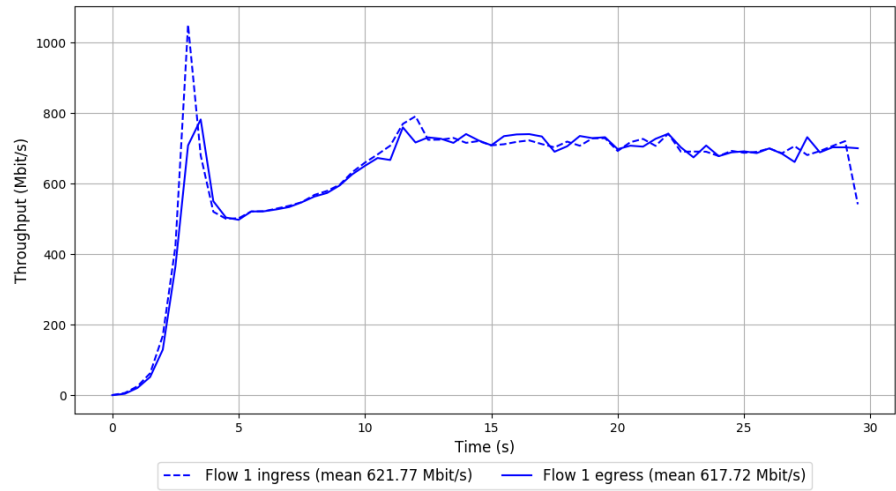
-- Flow 1:

Average throughput: 617.72 Mbit/s

95th percentile per-packet one-way delay: 183.224 ms

Loss rate: 0.65%

### Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-21 01:21:51

End at: 2017-11-21 01:22:21

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 563.17 Mbit/s

95th percentile per-packet one-way delay: 192.674 ms

Loss rate: 1.97%

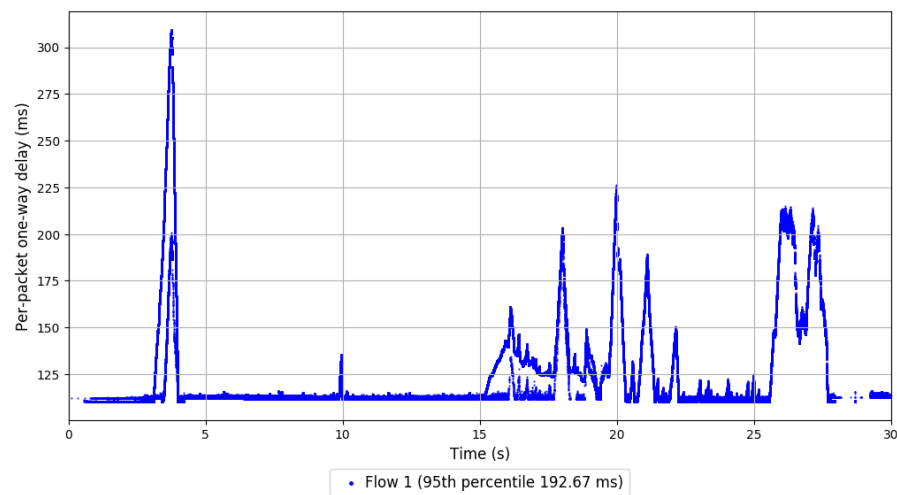
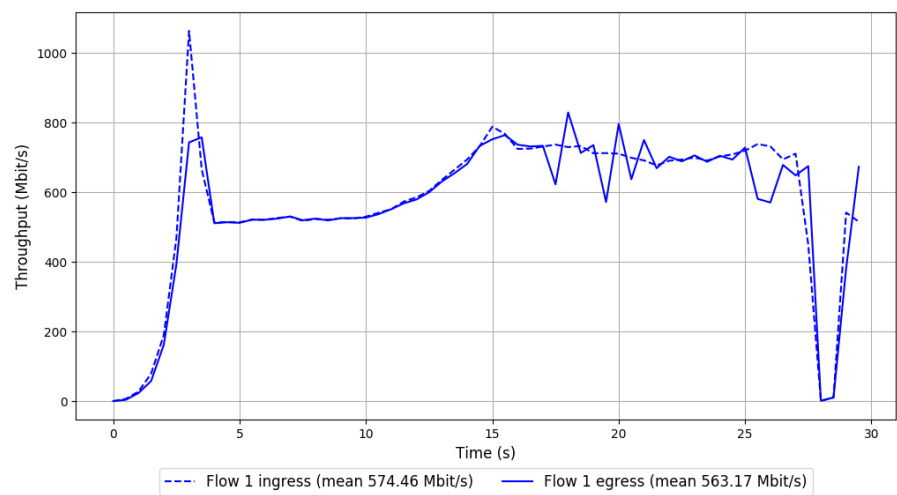
-- Flow 1:

Average throughput: 563.17 Mbit/s

95th percentile per-packet one-way delay: 192.674 ms

Loss rate: 1.97%

Run 10: Report of PCC — Data Link



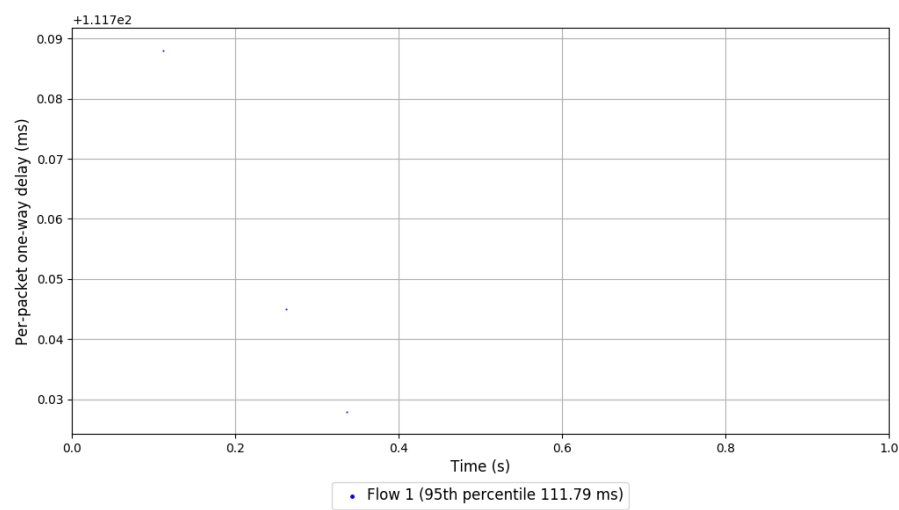
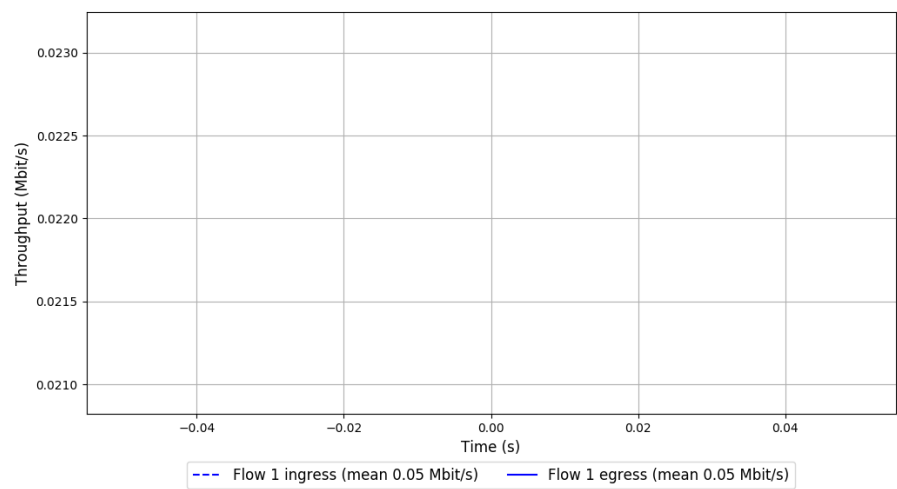
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-20 23:39:54

End at: 2017-11-20 23:40:24



Run 1: Report of QUIC Cubic — Data Link

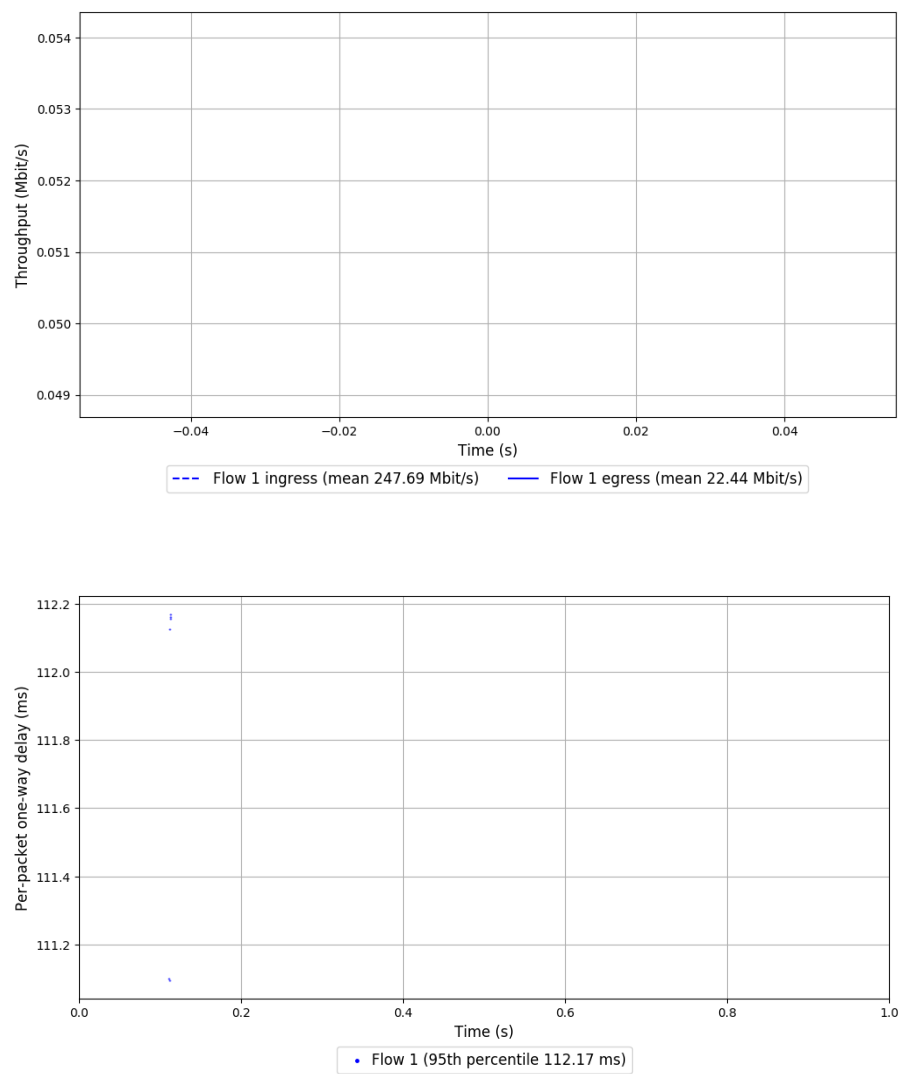


Run 2: Statistics of QUIC Cubic

Start at: 2017-11-20 23:51:07

End at: 2017-11-20 23:51:37

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-21 00:02:23

End at: 2017-11-21 00:02:53

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 53.71 Mbit/s

95th percentile per-packet one-way delay: 111.371 ms

Loss rate: 0.01%

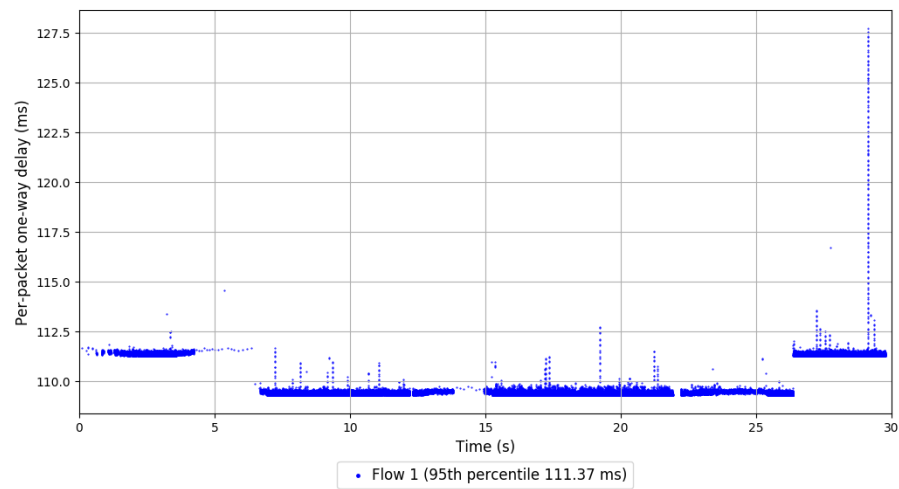
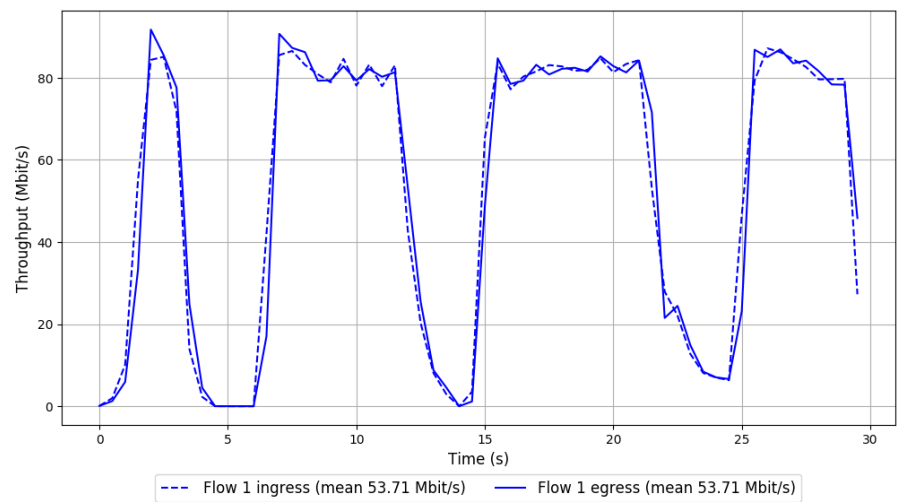
-- Flow 1:

Average throughput: 53.71 Mbit/s

95th percentile per-packet one-way delay: 111.371 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link

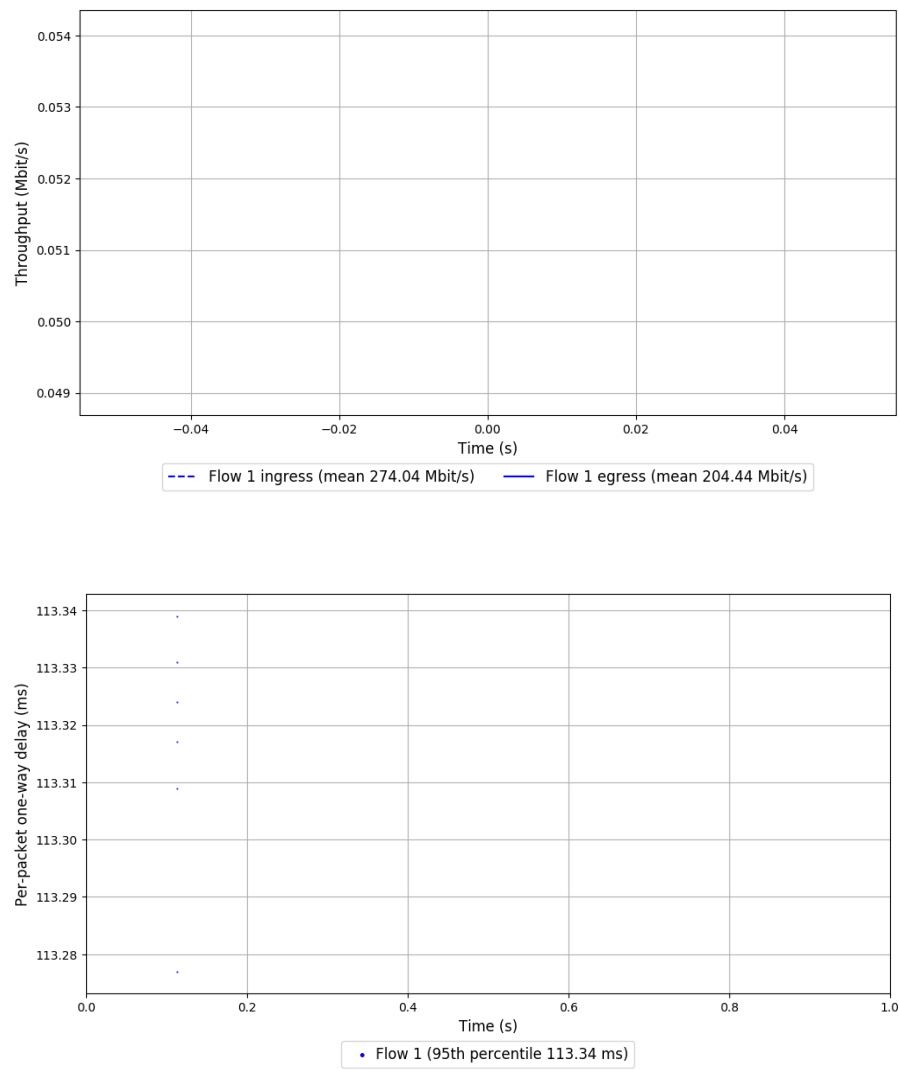


Run 4: Statistics of QUIC Cubic

Start at: 2017-11-21 00:13:43

End at: 2017-11-21 00:14:13

Run 4: Report of QUIC Cubic — Data Link



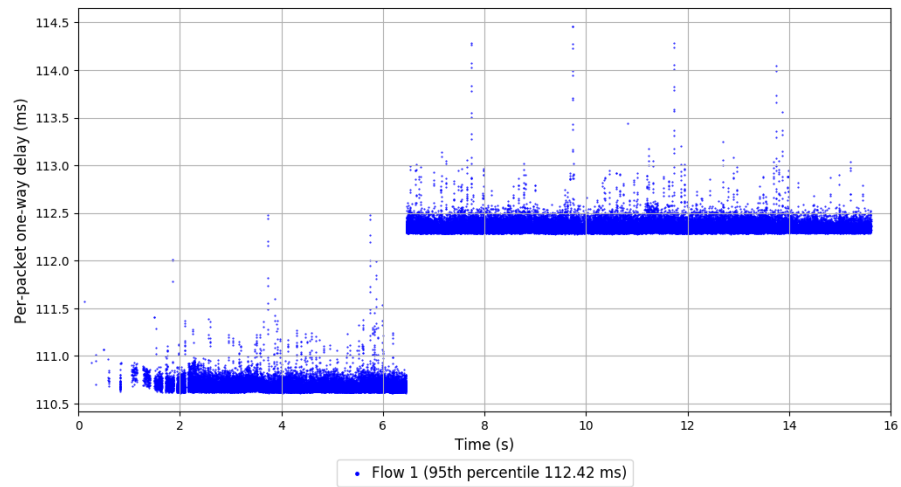
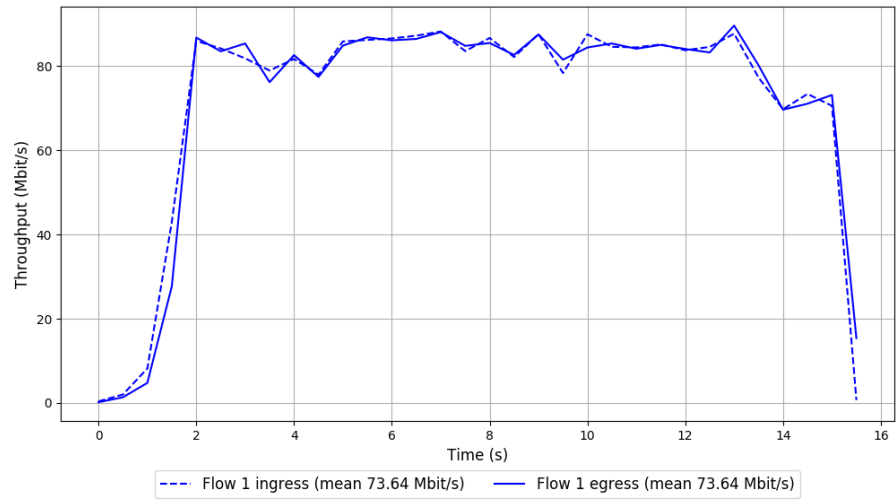
Run 5: Statistics of QUIC Cubic

Start at: 2017-11-21 00:24:46

End at: 2017-11-21 00:25:16



### Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-21 00:36:04

End at: 2017-11-21 00:36:34

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.36 Mbit/s

95th percentile per-packet one-way delay: 112.589 ms

Loss rate: 0.00%

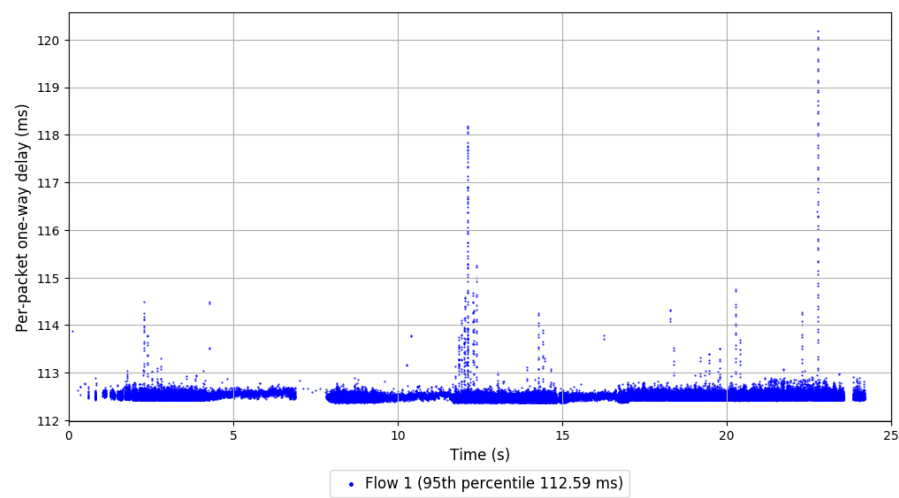
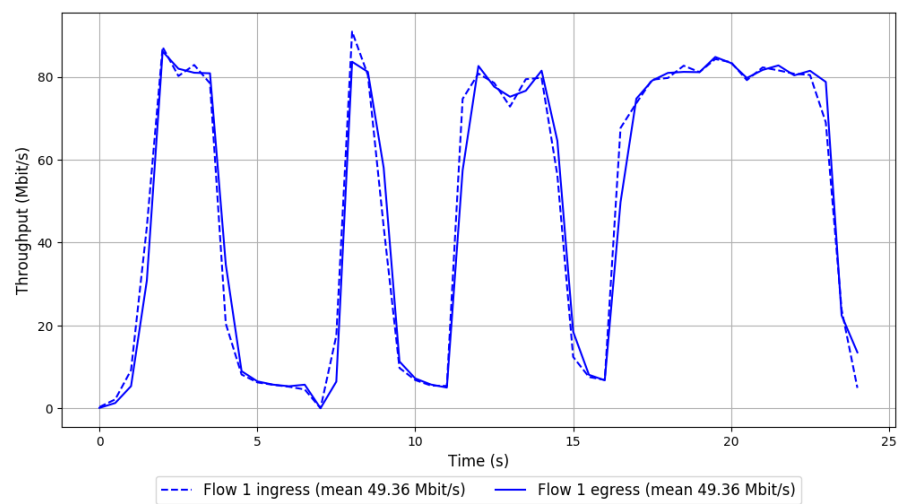
-- Flow 1:

Average throughput: 49.36 Mbit/s

95th percentile per-packet one-way delay: 112.589 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-21 00:47:11

End at: 2017-11-21 00:47:41

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.10 Mbit/s

95th percentile per-packet one-way delay: 112.332 ms

Loss rate: 0.00%

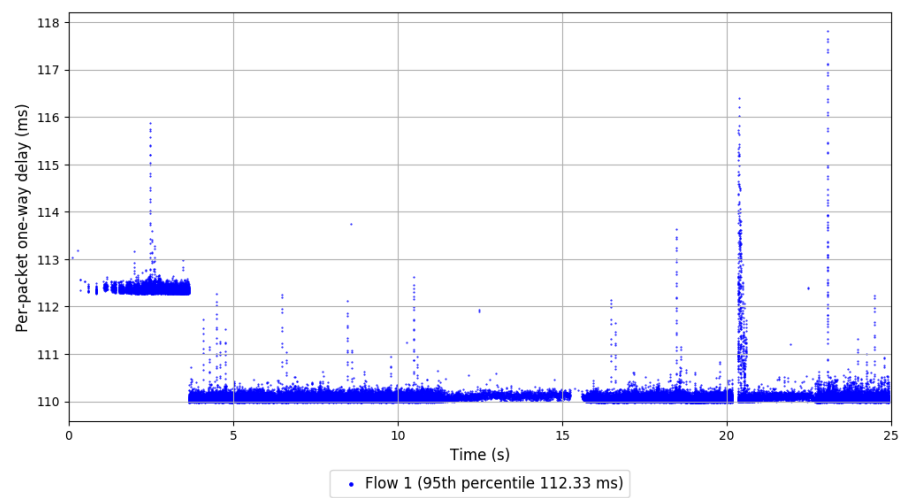
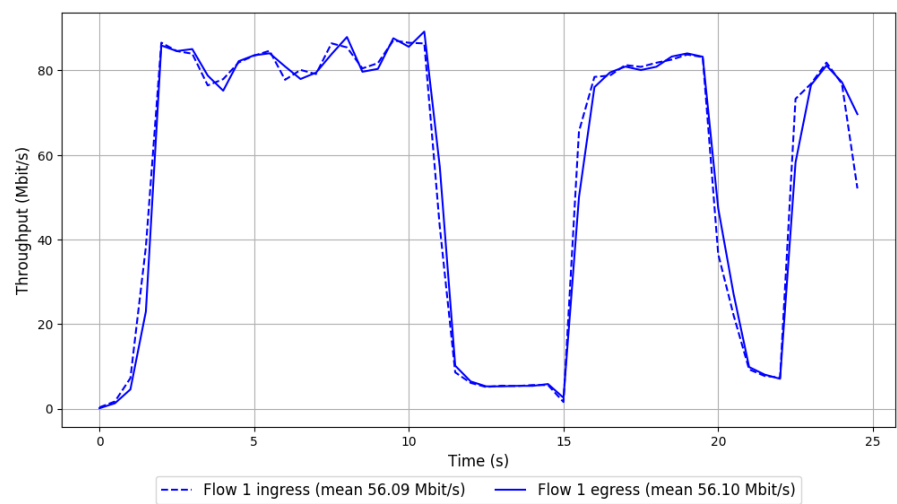
-- Flow 1:

Average throughput: 56.10 Mbit/s

95th percentile per-packet one-way delay: 112.332 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

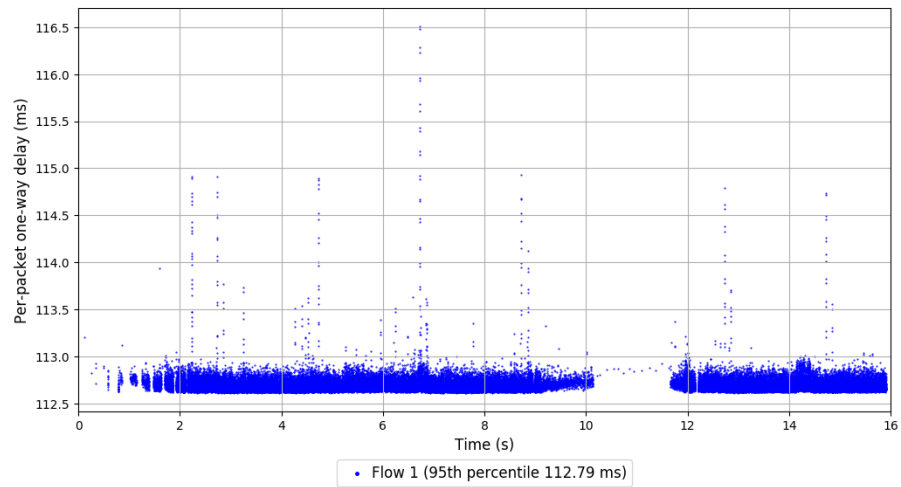
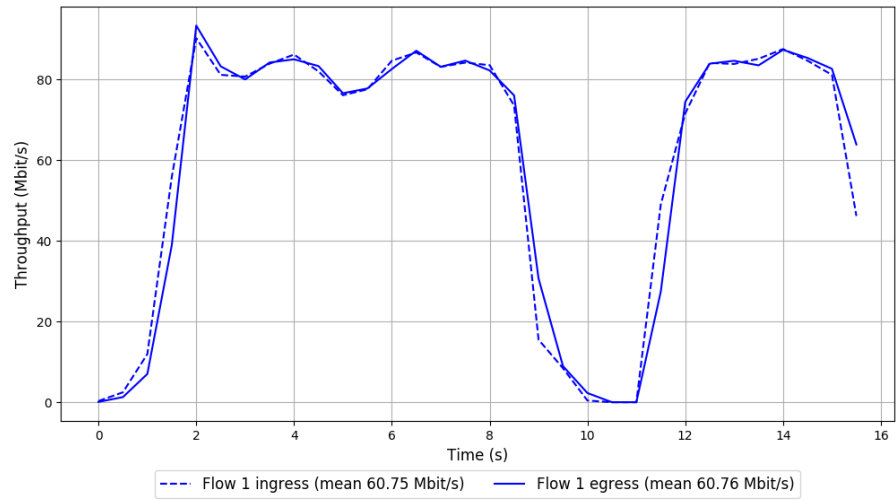


Run 8: Statistics of QUIC Cubic

Start at: 2017-11-21 00:58:14

End at: 2017-11-21 00:58:44

### Run 8: Report of QUIC Cubic — Data Link



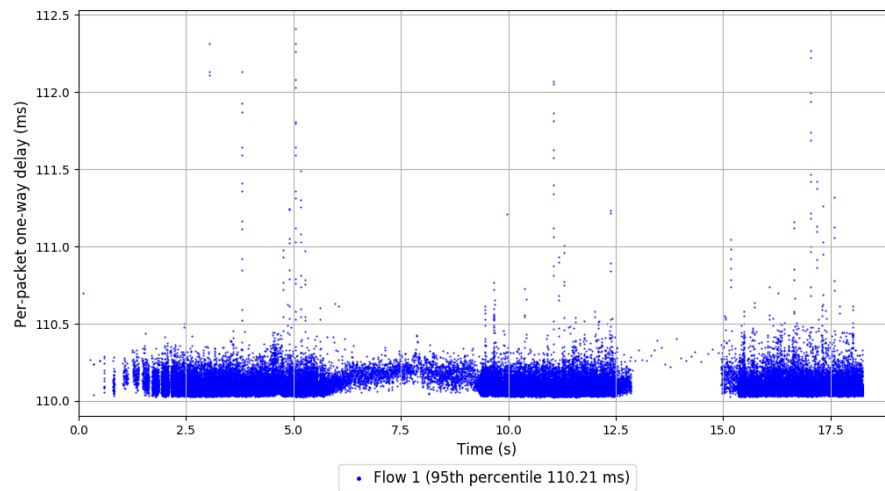
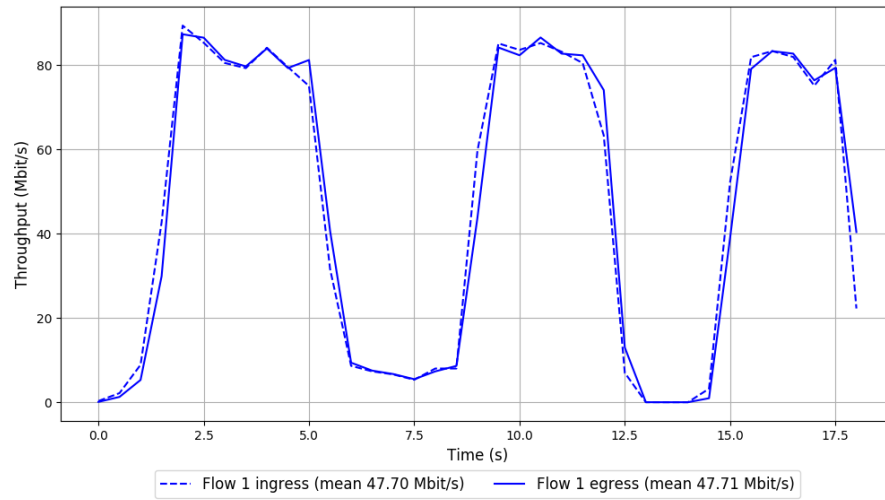
Run 9: Statistics of QUIC Cubic

Start at: 2017-11-21 01:09:26

End at: 2017-11-21 01:09:56



### Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-21 01:20:25

End at: 2017-11-21 01:20:55

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 62.71 Mbit/s

95th percentile per-packet one-way delay: 112.336 ms

Loss rate: 0.00%

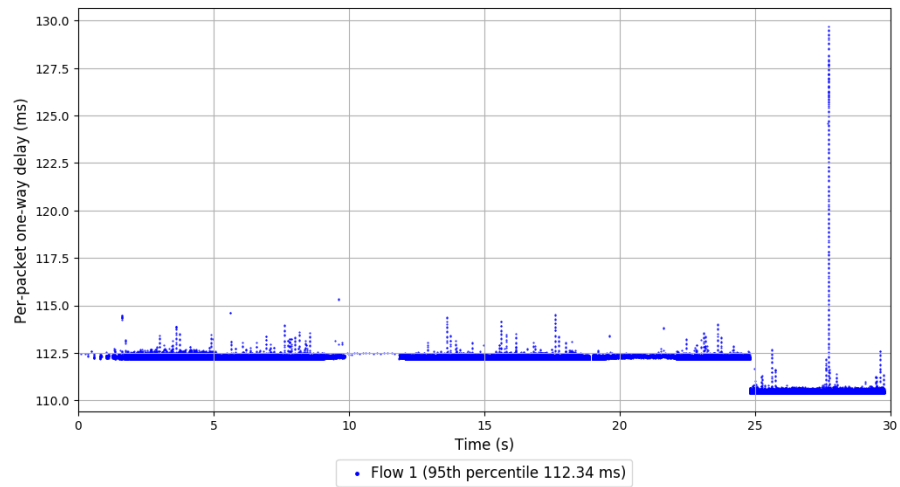
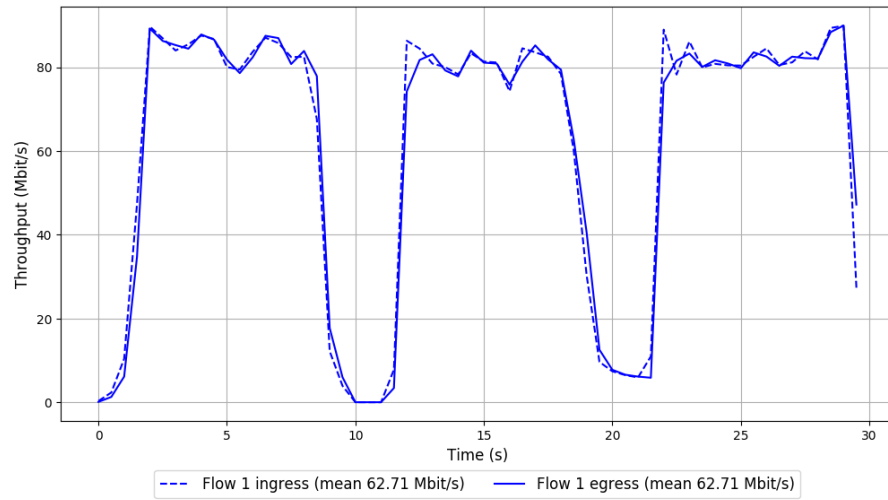
-- Flow 1:

Average throughput: 62.71 Mbit/s

95th percentile per-packet one-way delay: 112.336 ms

Loss rate: 0.00%

# Run 10: Report of QUIC Cubic — Data Link

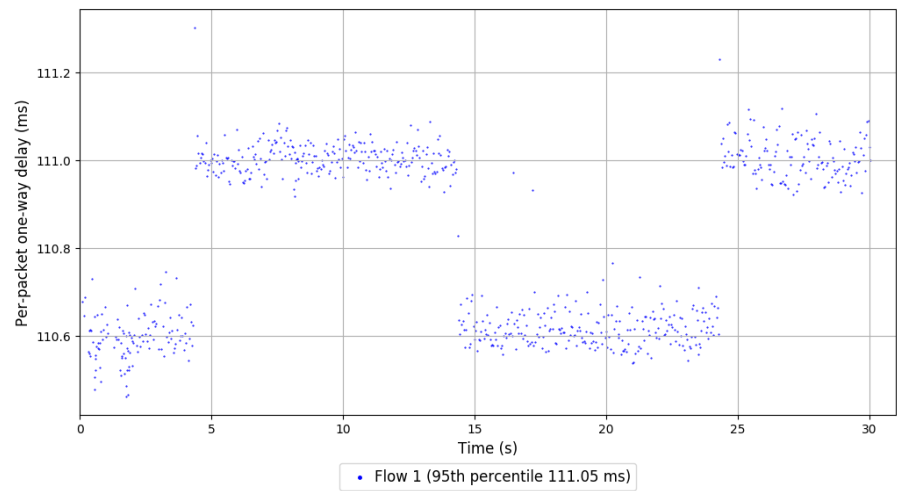
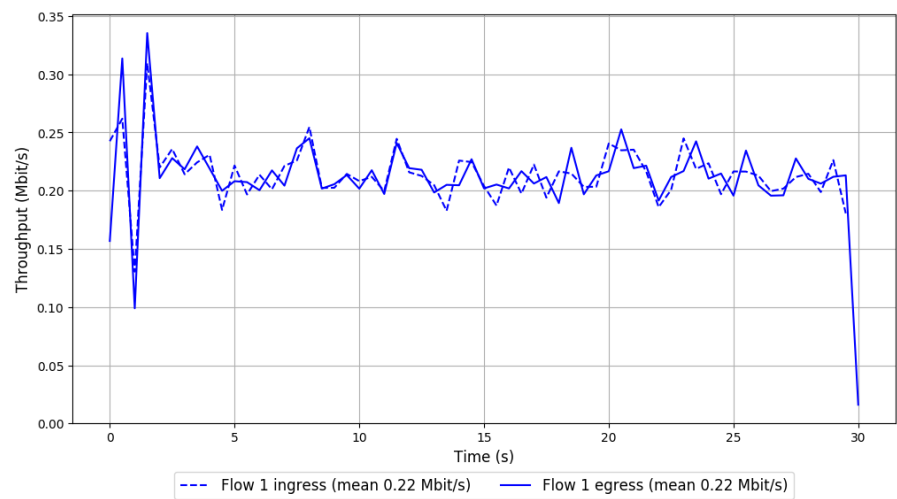


```
Run 1: Statistics of SCReAM

Start at: 2017-11-20 23:32:05
End at: 2017-11-20 23:32:35

# Below is generated by plot.py at 2017-11-21 02:25:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.051 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.051 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

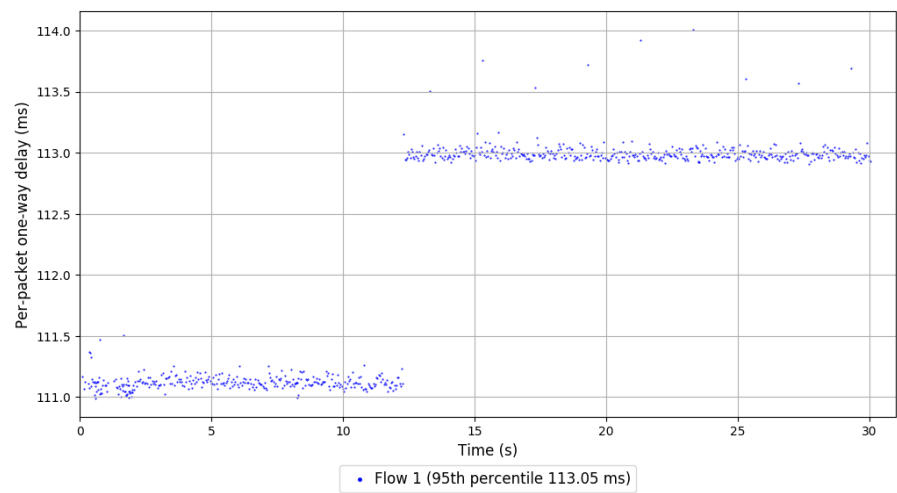
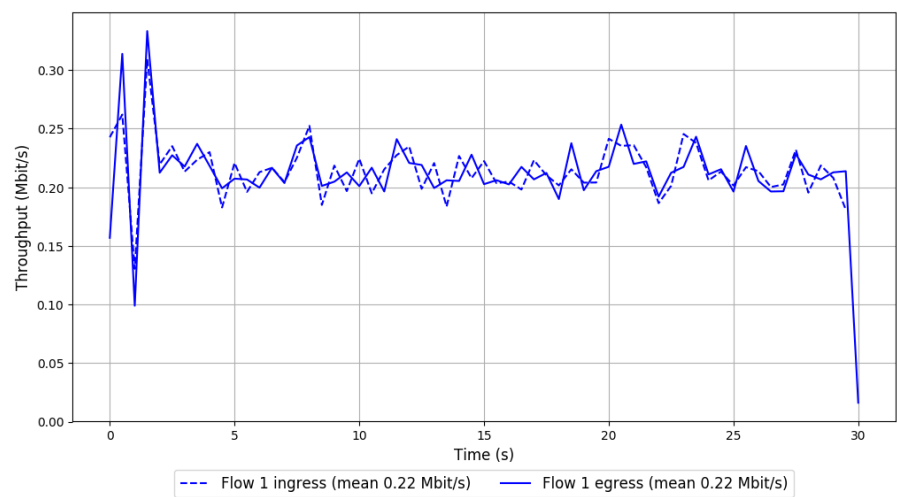


```
Run 2: Statistics of SCReAM

Start at: 2017-11-20 23:43:27
End at: 2017-11-20 23:43:57

# Below is generated by plot.py at 2017-11-21 02:25:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.054 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.054 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-20 23:54:37

End at: 2017-11-20 23:55:07

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 112.590 ms

Loss rate: 0.00%

-- Flow 1:

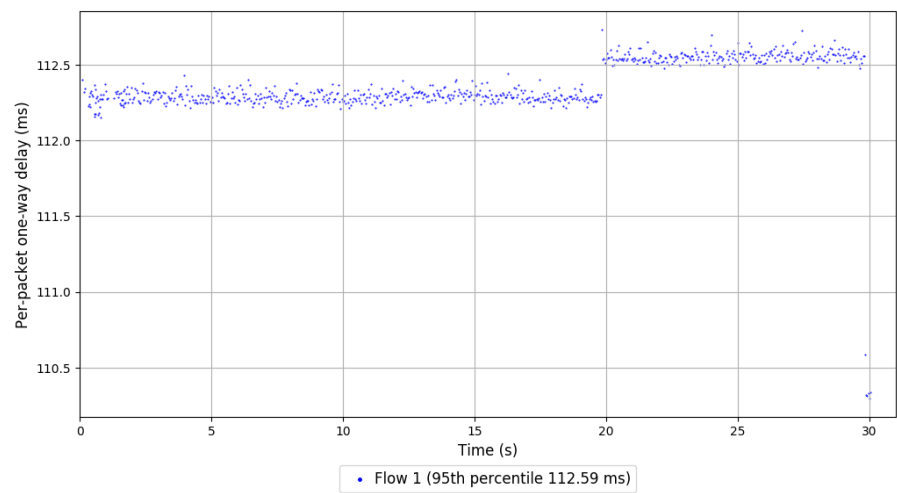
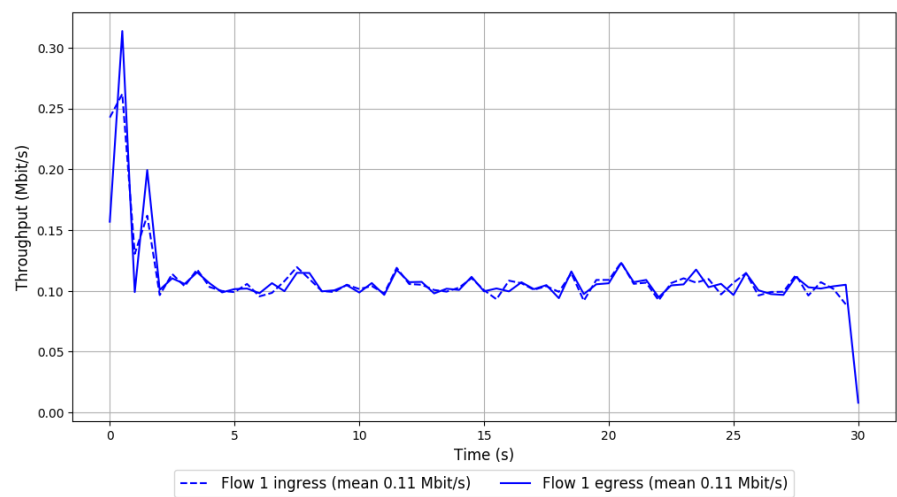
Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 112.590 ms

Loss rate: 0.00%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-21 00:05:58

End at: 2017-11-21 00:06:28

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.936 ms

Loss rate: 0.12%

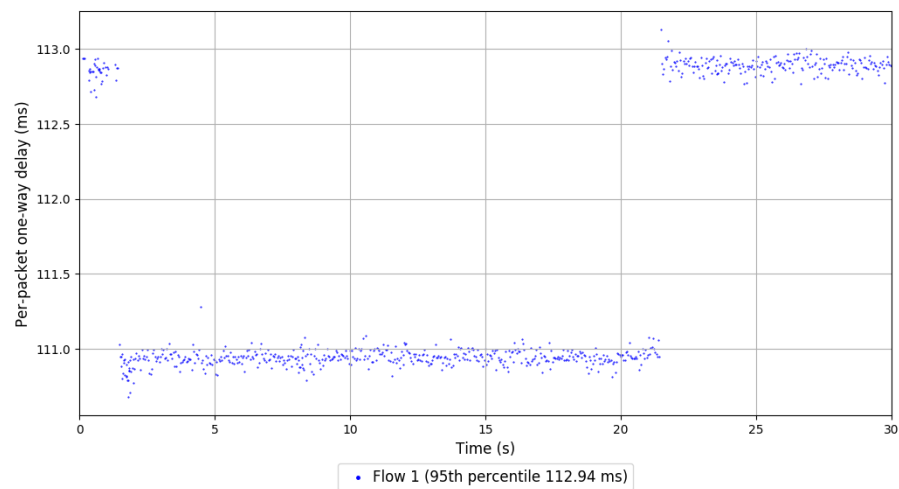
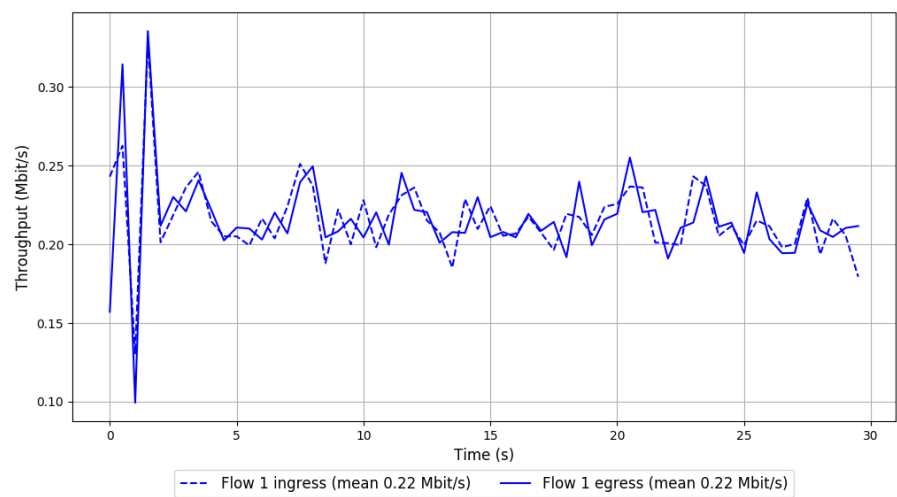
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.936 ms

Loss rate: 0.12%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-21 00:17:08

End at: 2017-11-21 00:17:38

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.339 ms

Loss rate: 0.00%

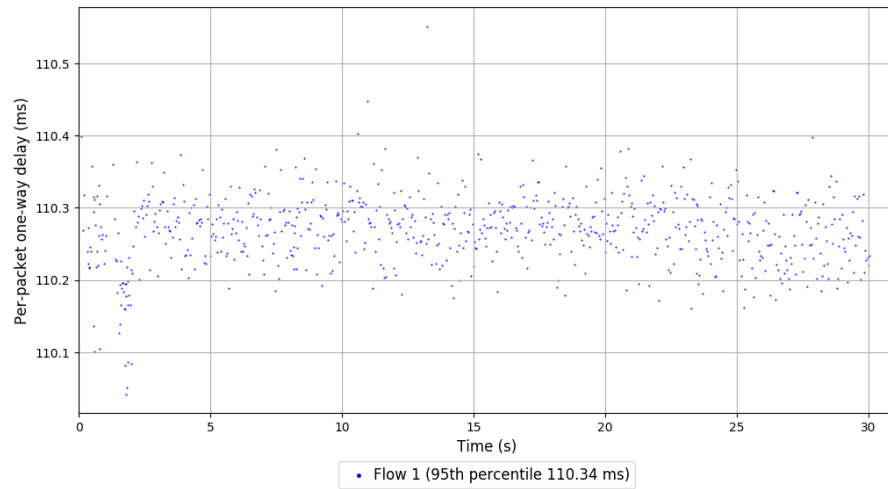
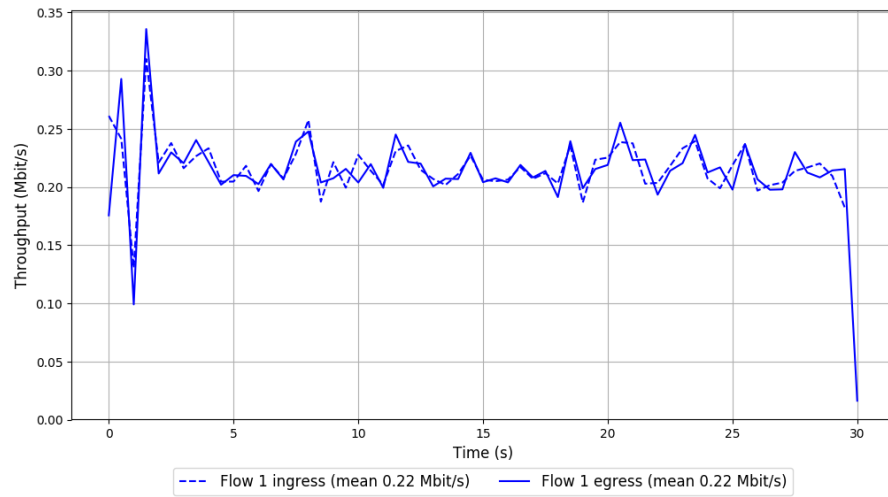
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.339 ms

Loss rate: 0.00%

### Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-21 00:28:18

End at: 2017-11-21 00:28:48

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.571 ms

Loss rate: 0.00%

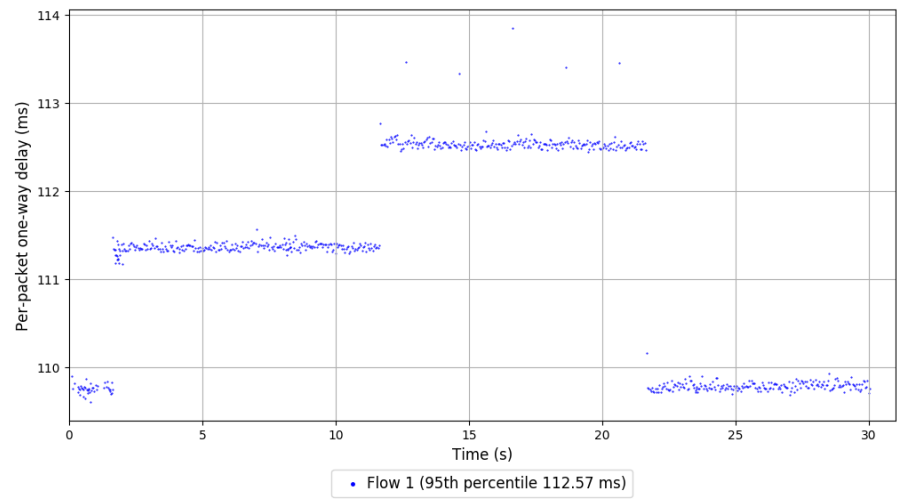
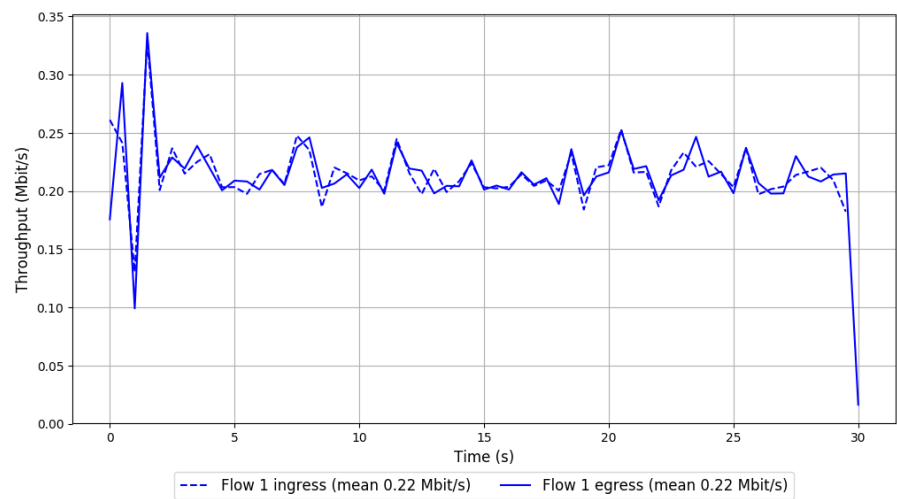
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.571 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-11-21 00:39:19

End at: 2017-11-21 00:39:49

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.500 ms

Loss rate: 0.00%

-- Flow 1:

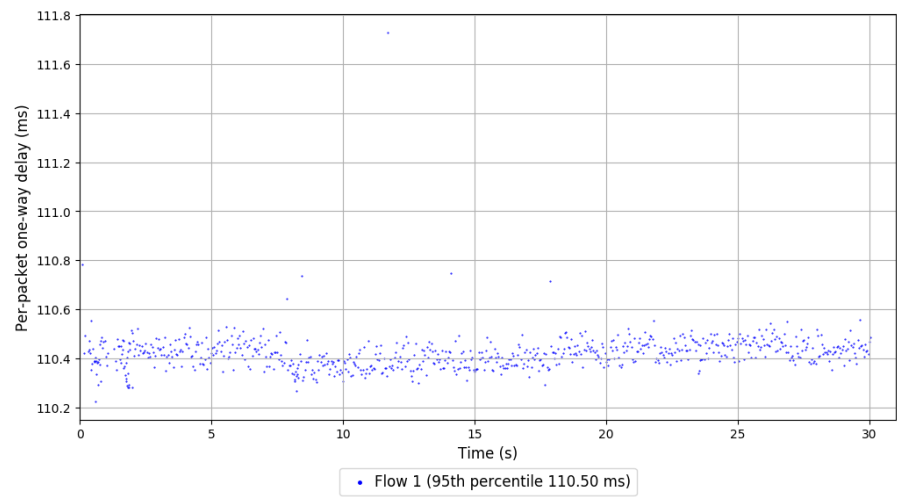
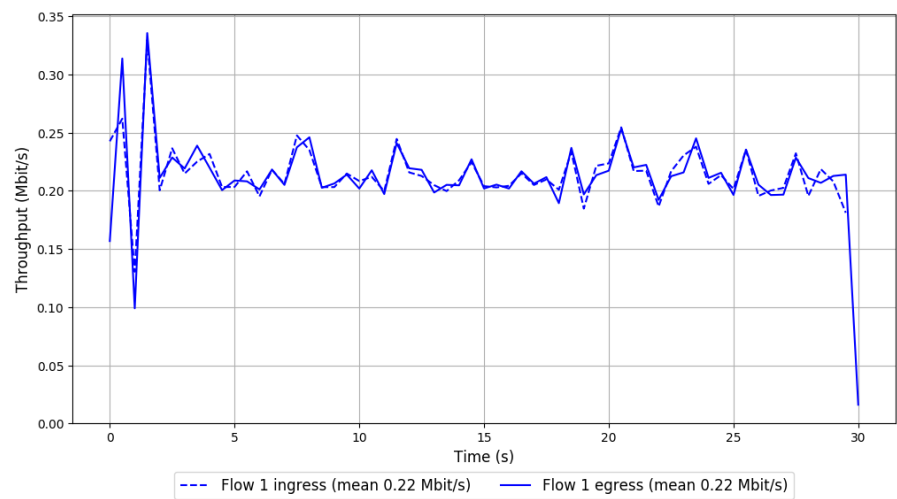
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.500 ms

Loss rate: 0.00%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-21 00:50:31

End at: 2017-11-21 00:51:02

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.931 ms

Loss rate: 0.00%

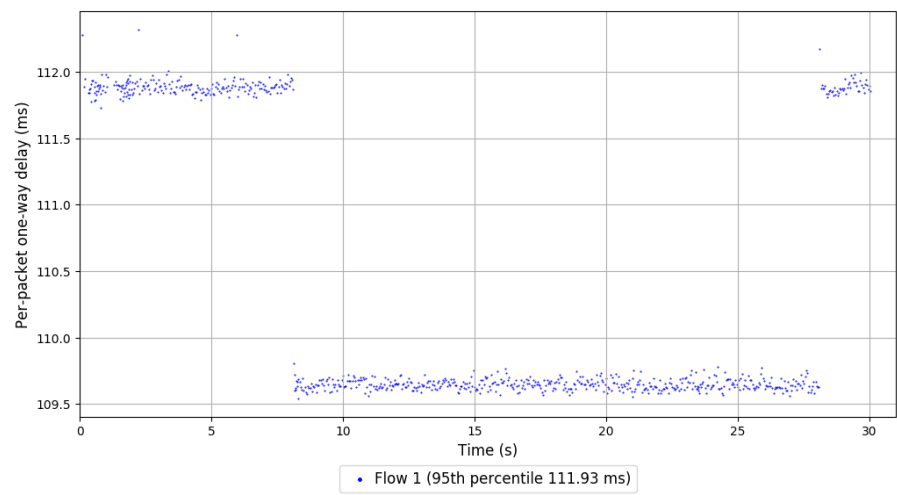
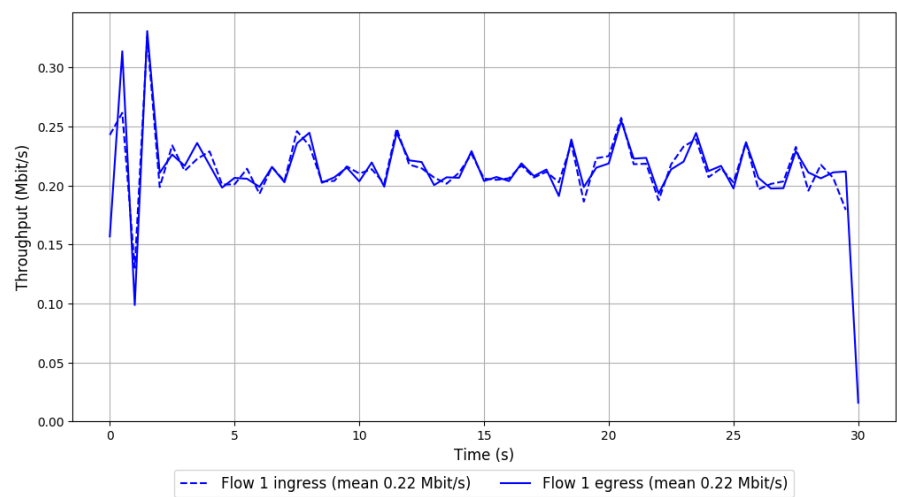
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.931 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-21 01:01:45

End at: 2017-11-21 01:02:15

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.389 ms

Loss rate: 0.00%

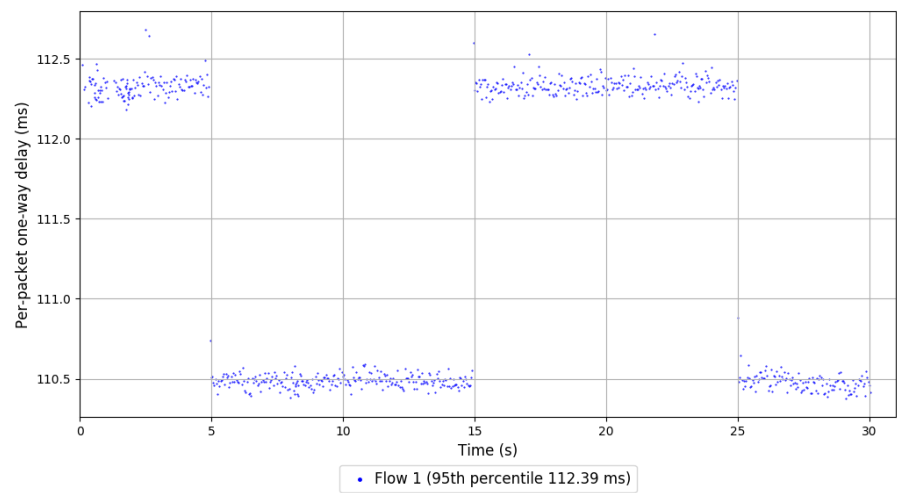
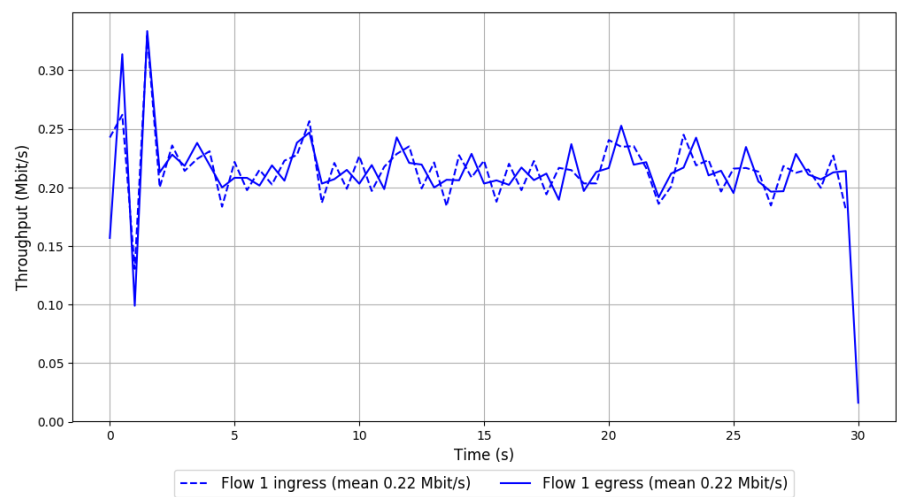
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.389 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-11-21 01:12:43

End at: 2017-11-21 01:13:13

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.430 ms

Loss rate: 0.00%

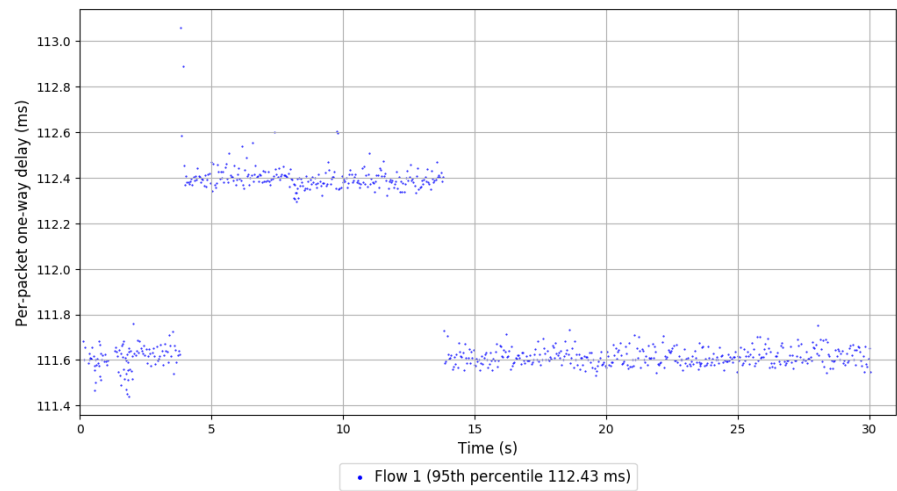
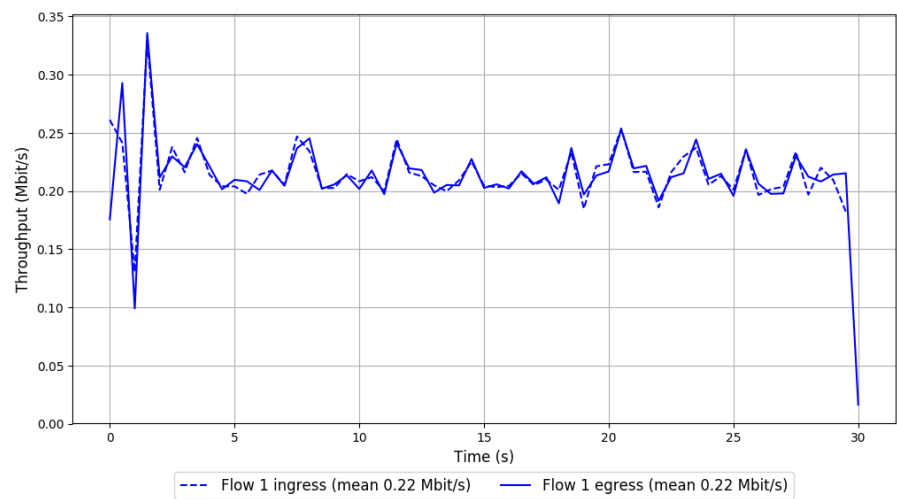
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.430 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



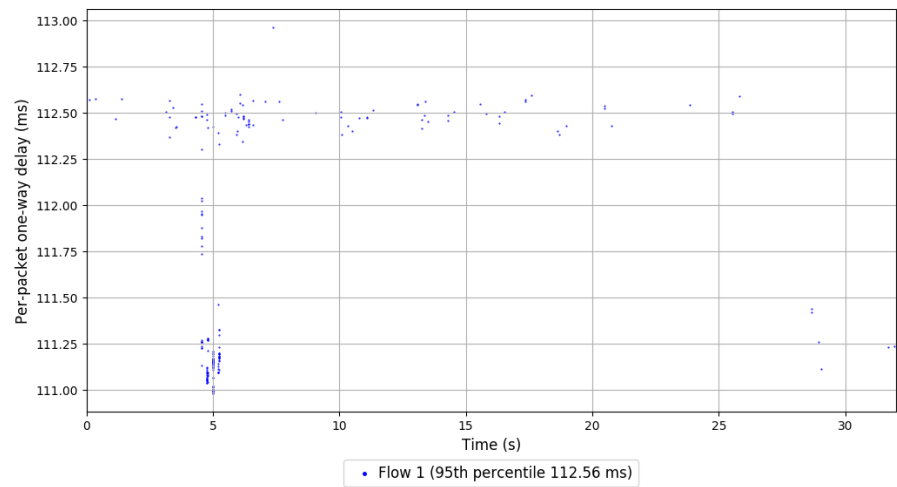
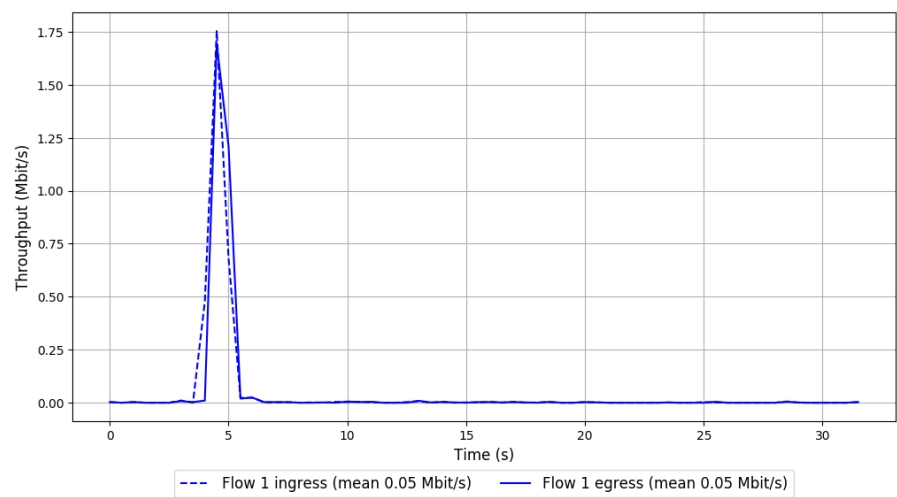
```
Run 1: Statistics of WebRTC media

Start at: 2017-11-20 23:32:46
End at: 2017-11-20 23:33:16

# Below is generated by plot.py at 2017-11-21 02:25:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 112.563 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 112.563 ms
Loss rate: 0.00%
```



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-20 23:44:08

End at: 2017-11-20 23:44:38

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.895 ms

Loss rate: 0.00%

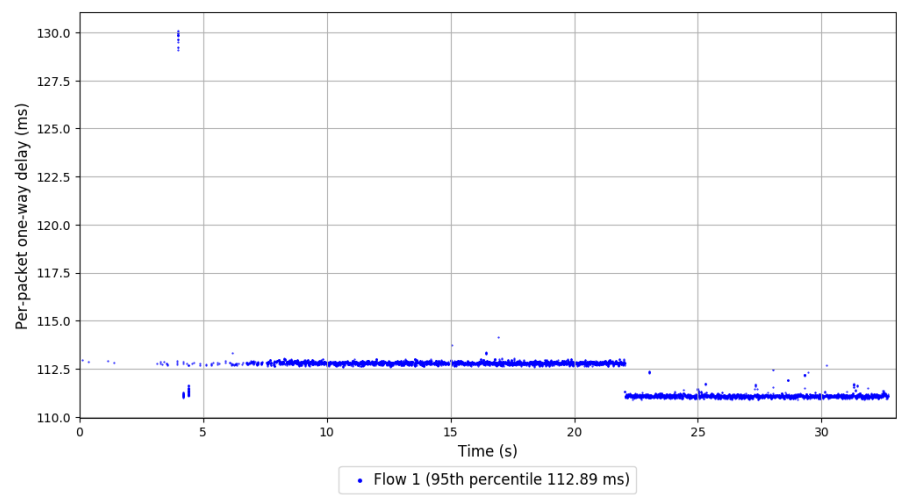
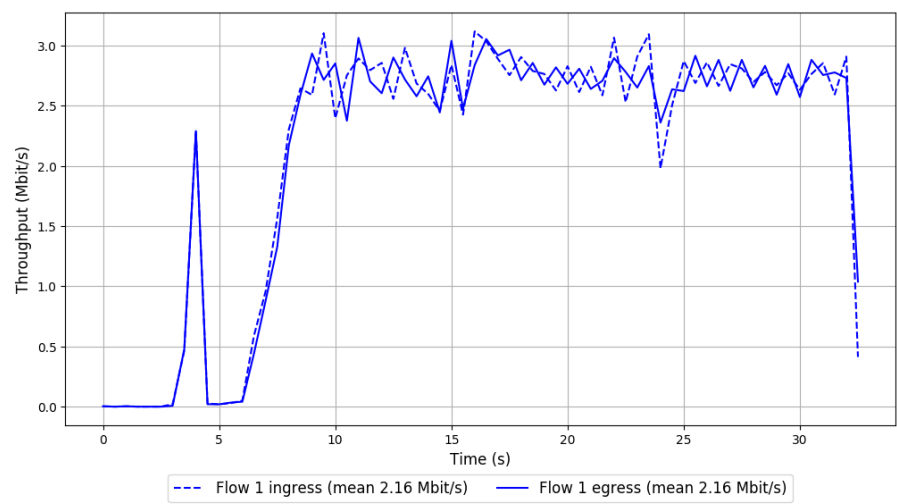
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.895 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-20 23:55:18

End at: 2017-11-20 23:55:48

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 111.904 ms

Loss rate: 0.00%

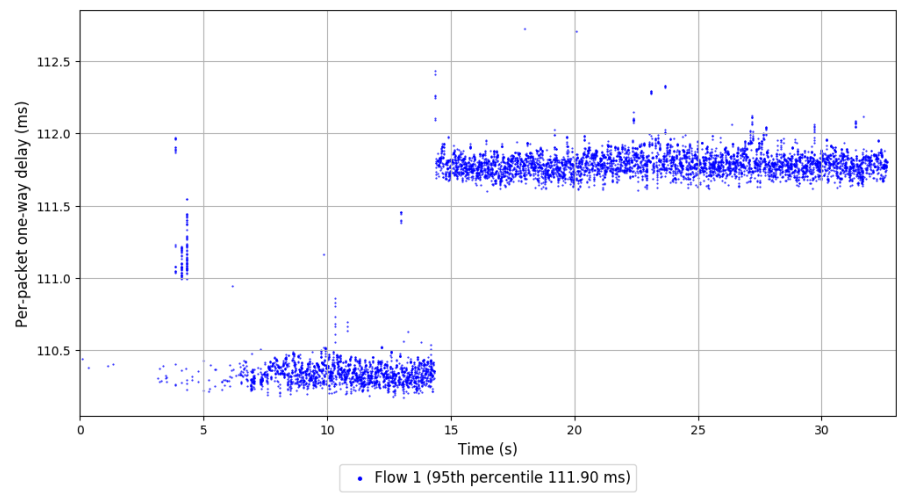
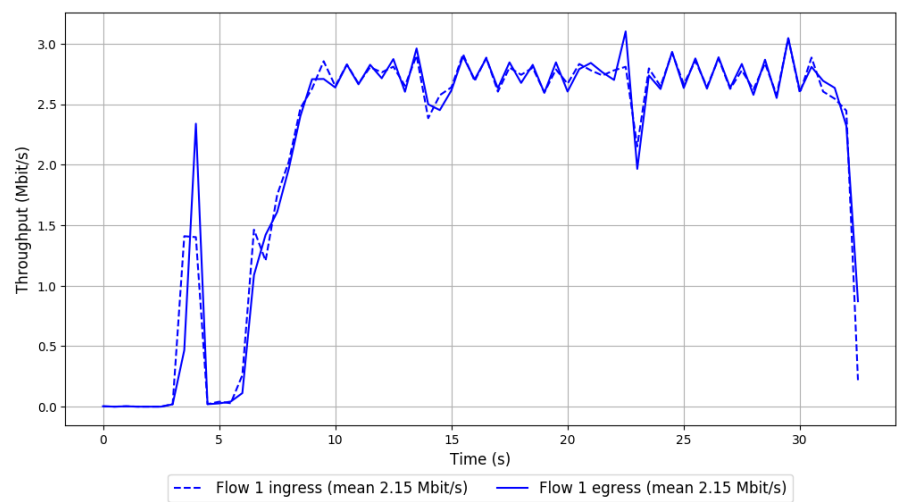
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 111.904 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-21 00:06:39

End at: 2017-11-21 00:07:09

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 110.676 ms

Loss rate: 0.00%

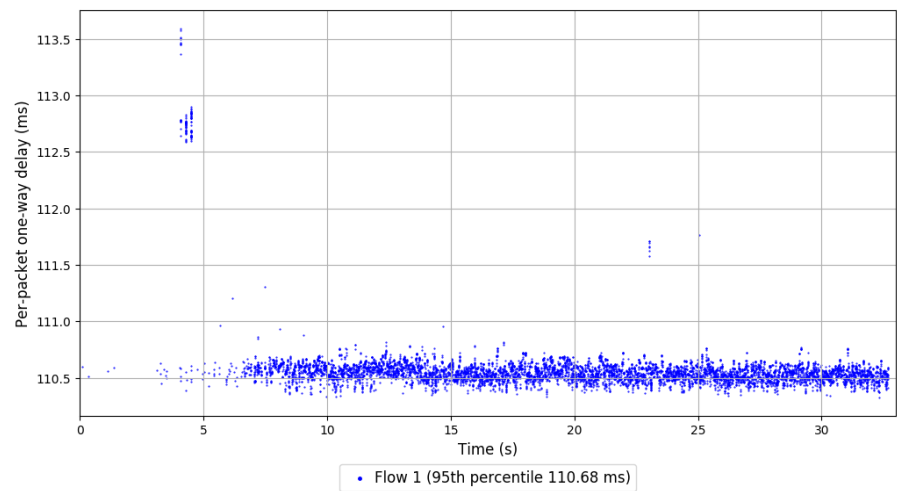
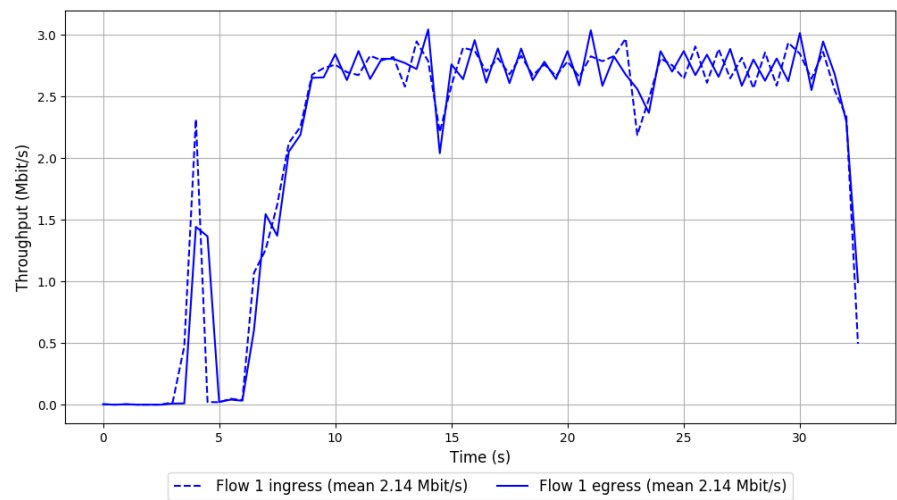
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 110.676 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-21 00:17:48

End at: 2017-11-21 00:18:18

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 112.930 ms

Loss rate: 0.00%

-- Flow 1:

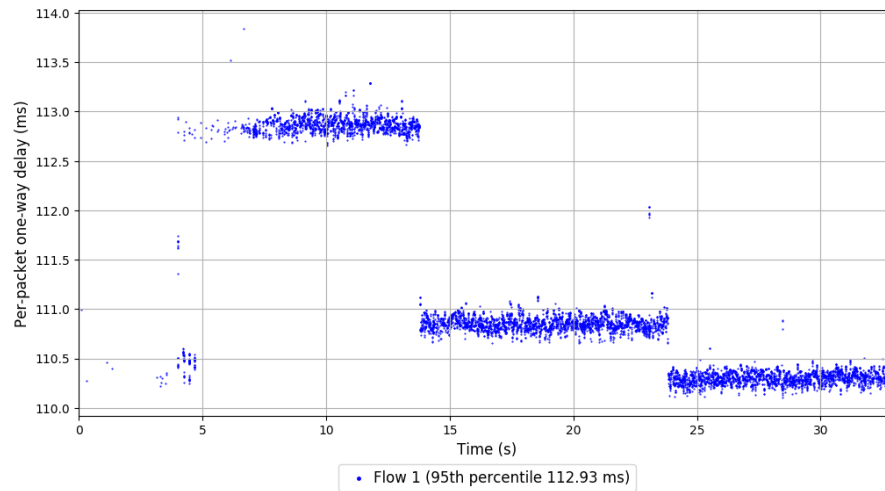
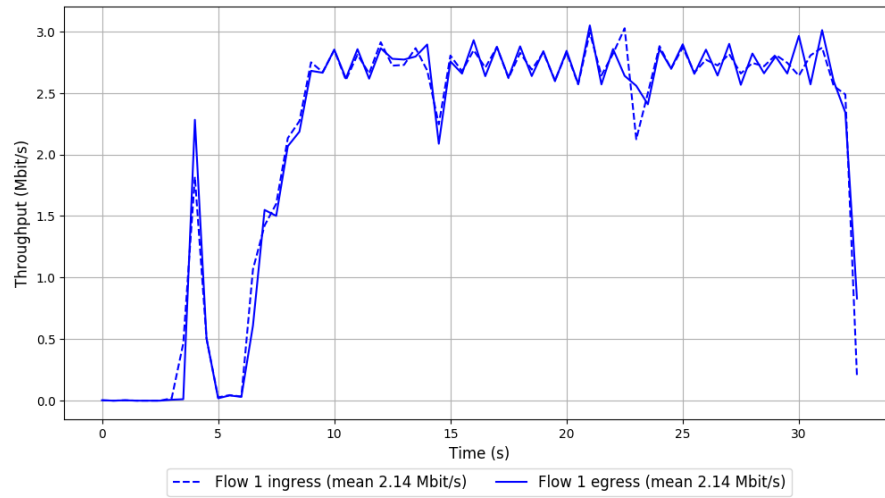
Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 112.930 ms

Loss rate: 0.00%



### Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-21 00:28:58

End at: 2017-11-21 00:29:28

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 112.535 ms

Loss rate: 0.00%

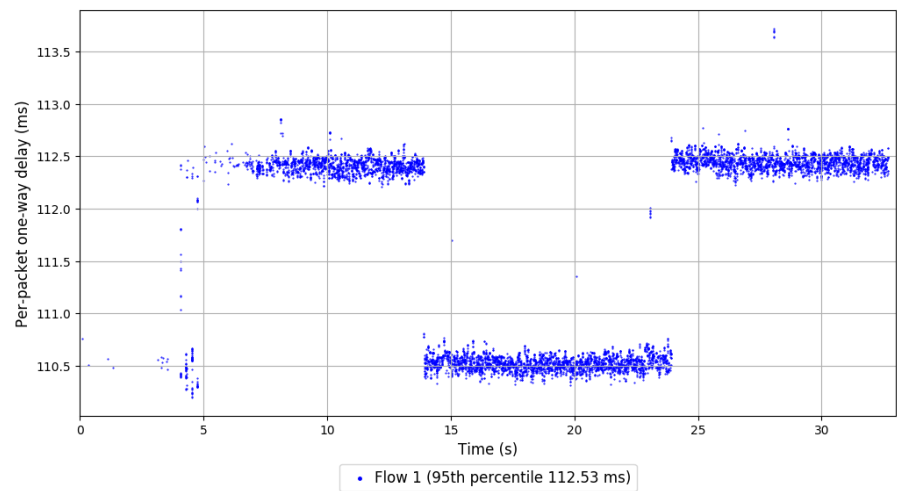
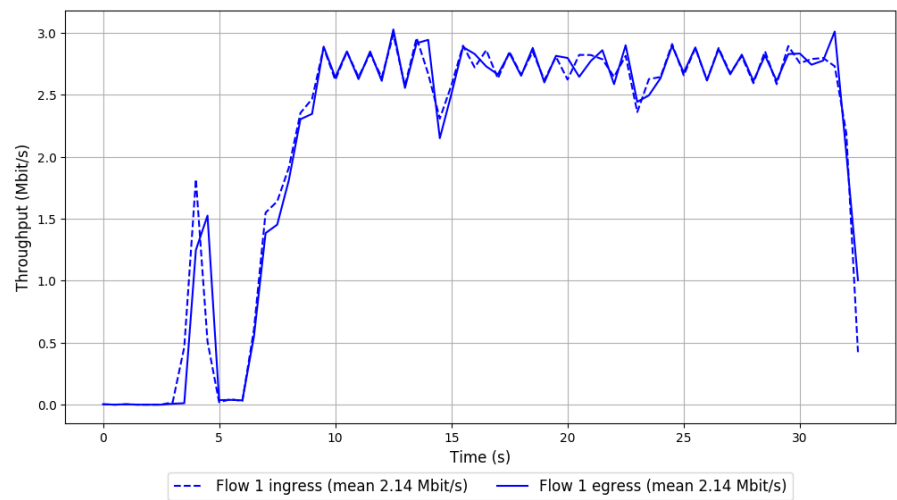
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 112.535 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-21 00:40:00

End at: 2017-11-21 00:40:30

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.503 ms

Loss rate: 0.00%

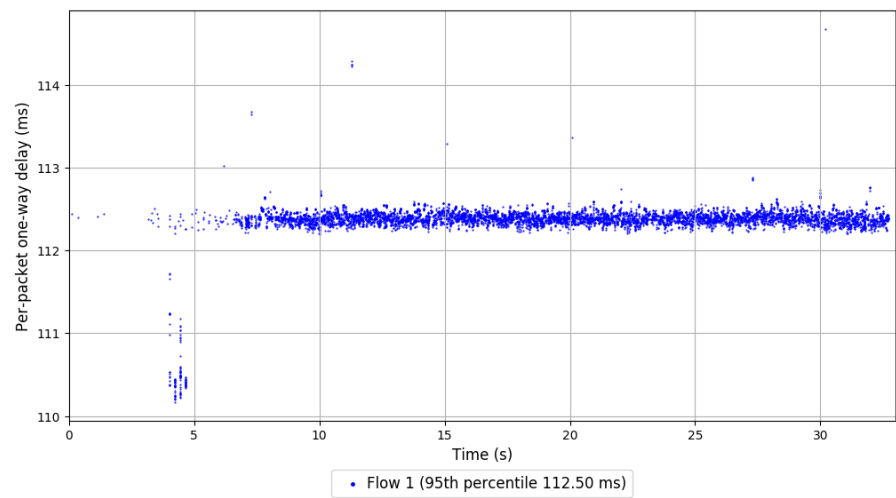
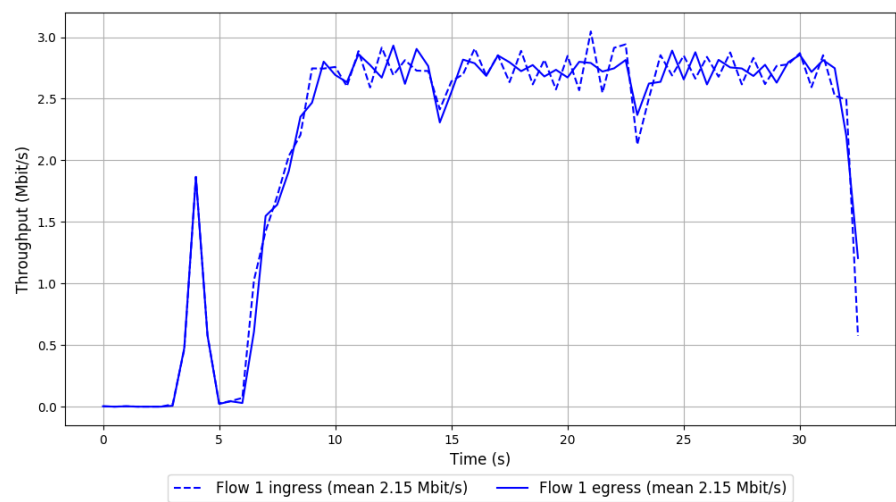
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.503 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-21 00:51:12

End at: 2017-11-21 00:51:42

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.751 ms

Loss rate: 0.00%

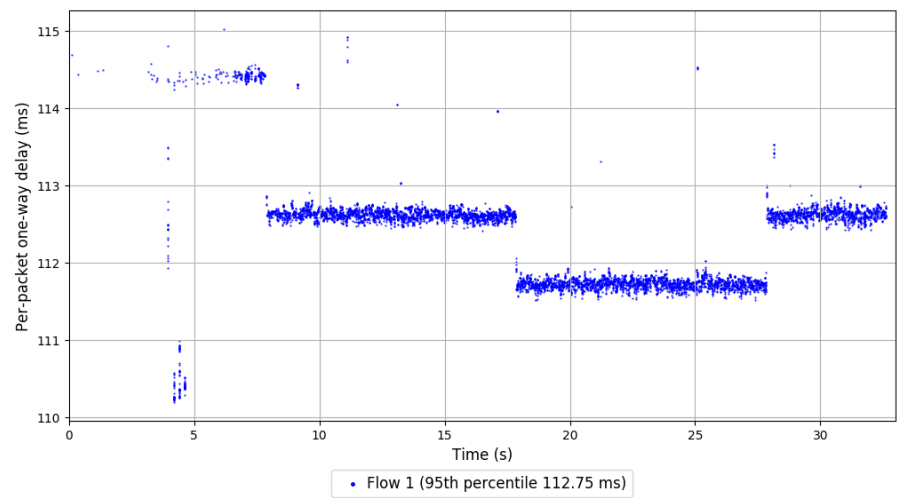
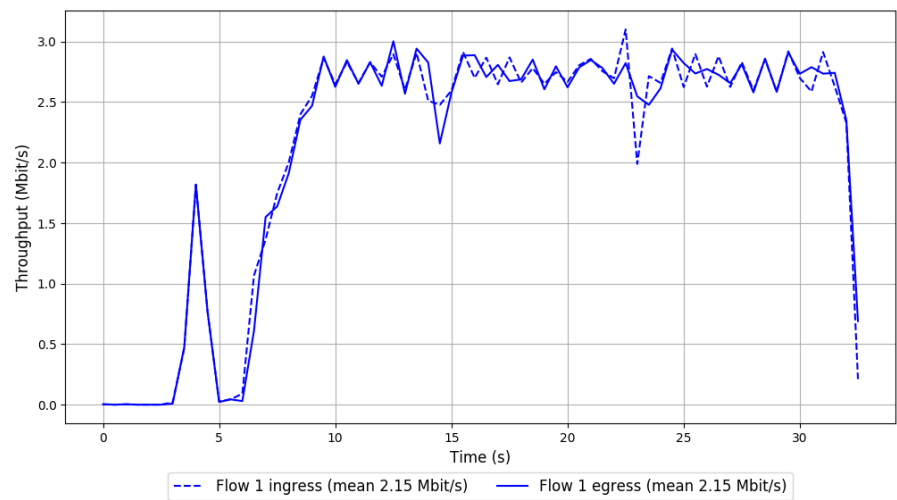
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.751 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-21 01:02:25

End at: 2017-11-21 01:02:55

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.307 ms

Loss rate: 0.00%

-- Flow 1:

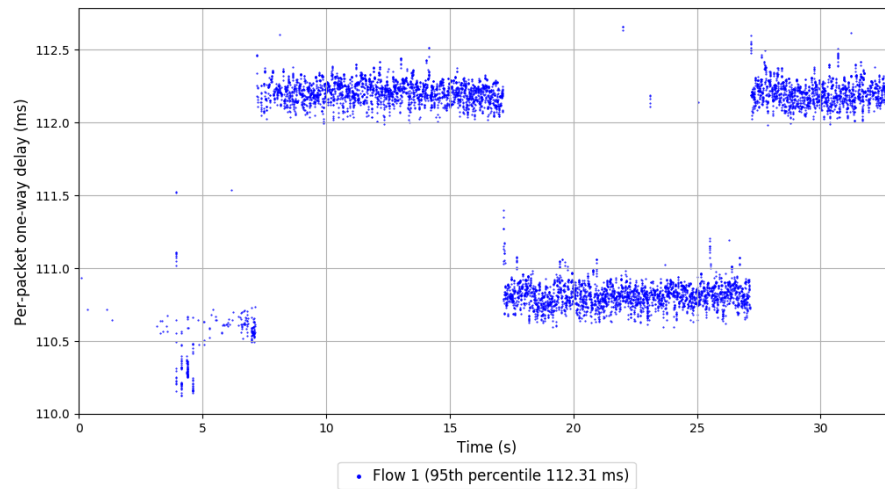
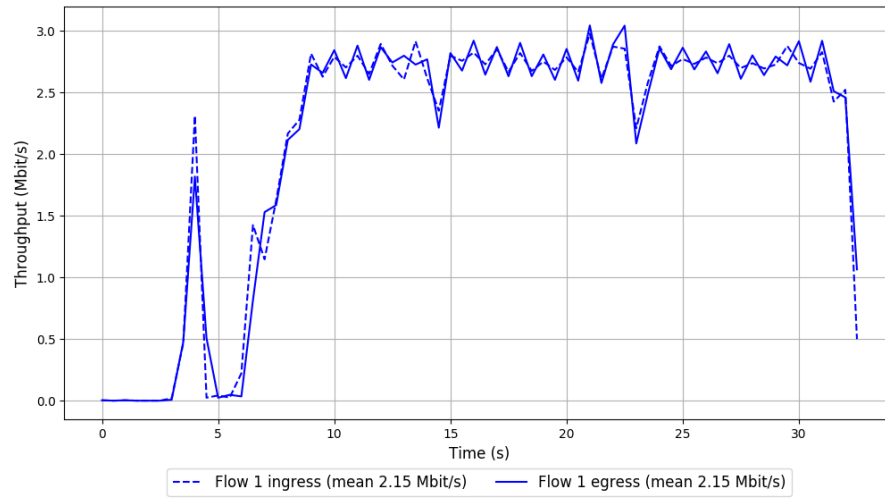
Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.307 ms

Loss rate: 0.00%



### Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-21 01:13:24

End at: 2017-11-21 01:13:54

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.580 ms

Loss rate: 0.00%

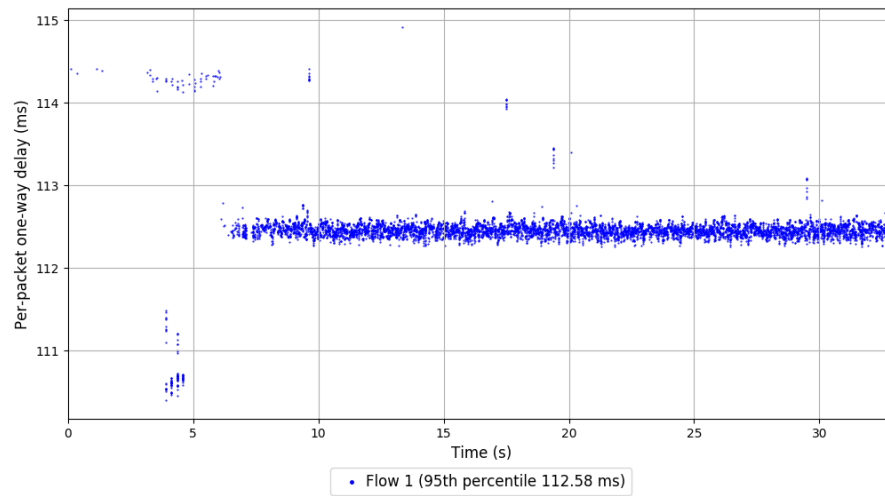
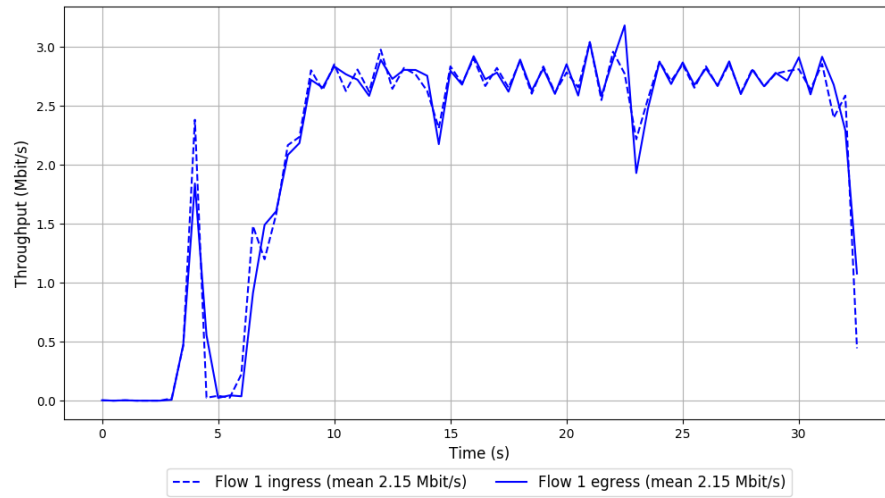
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.580 ms

Loss rate: 0.00%

## Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-20 23:40:34

End at: 2017-11-20 23:41:04

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 112.466 ms

Loss rate: 0.30%

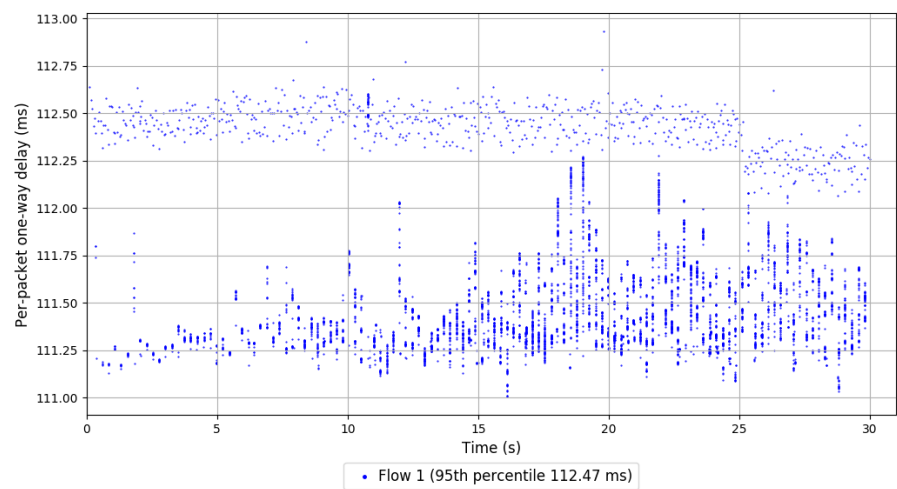
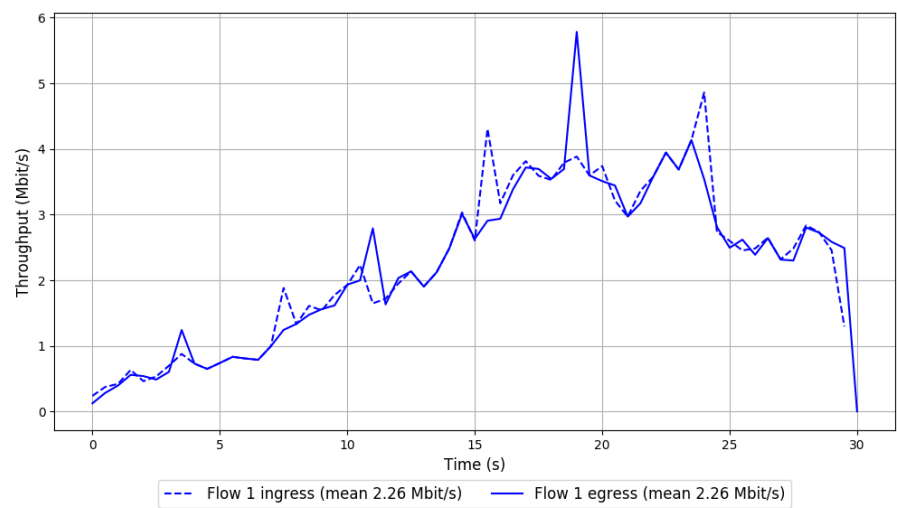
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 112.466 ms

Loss rate: 0.30%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-20 23:51:47

End at: 2017-11-20 23:52:17

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 111.615 ms

Loss rate: 0.78%

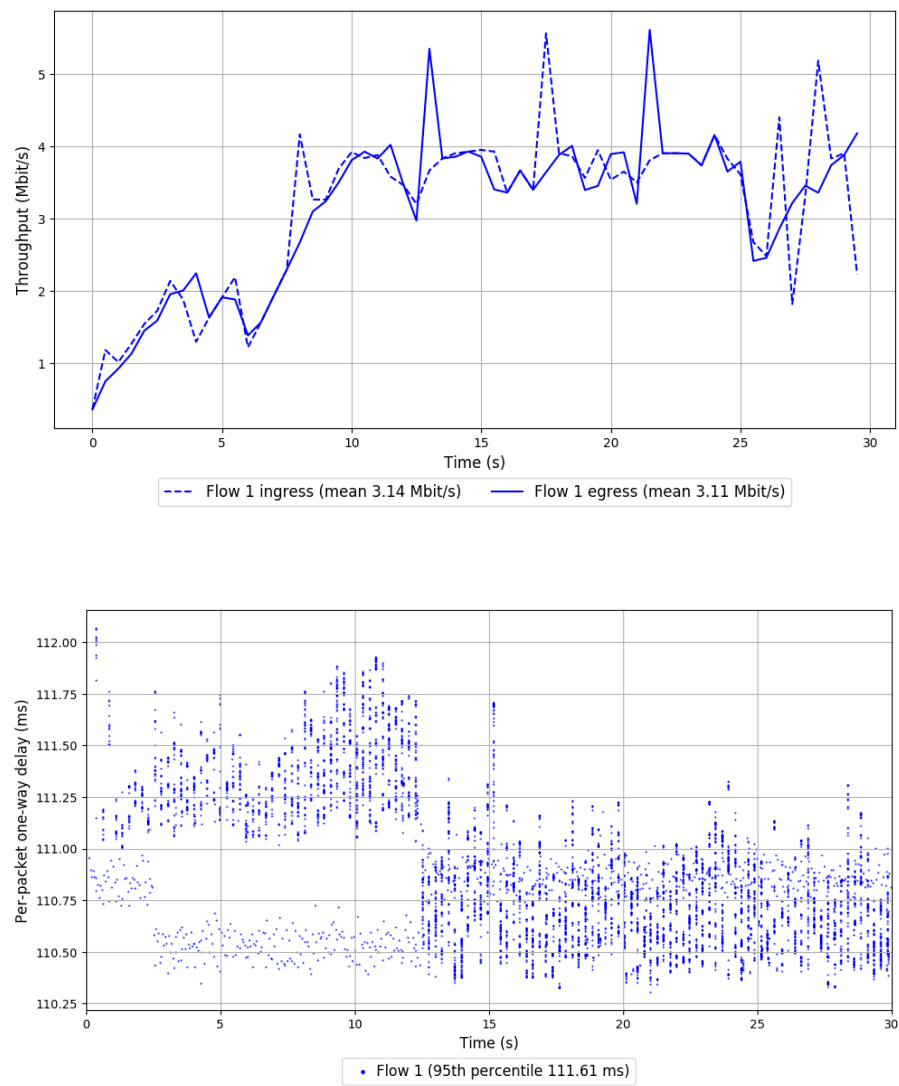
-- Flow 1:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 111.615 ms

Loss rate: 0.78%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-21 00:03:07

End at: 2017-11-21 00:03:37

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 113.369 ms

Loss rate: 0.01%

-- Flow 1:

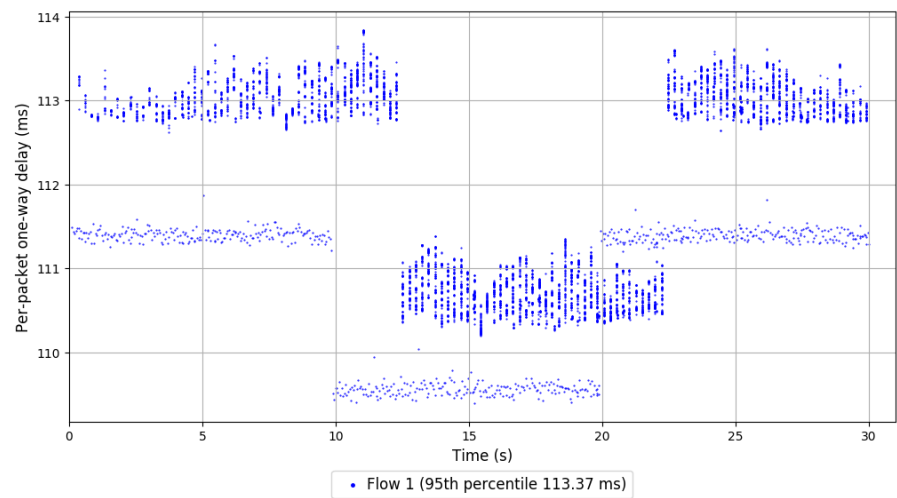
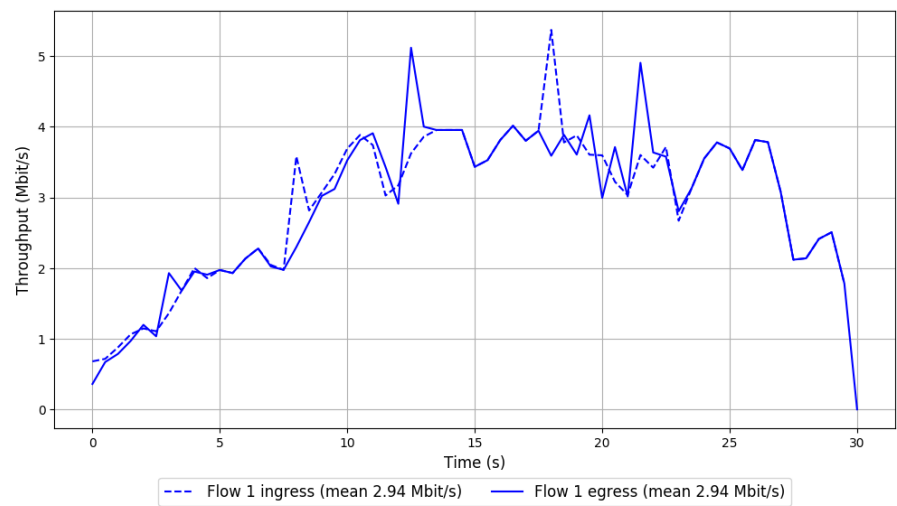
Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 113.369 ms

Loss rate: 0.01%



Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-21 00:14:23

End at: 2017-11-21 00:14:53

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 113.368 ms

Loss rate: 0.28%

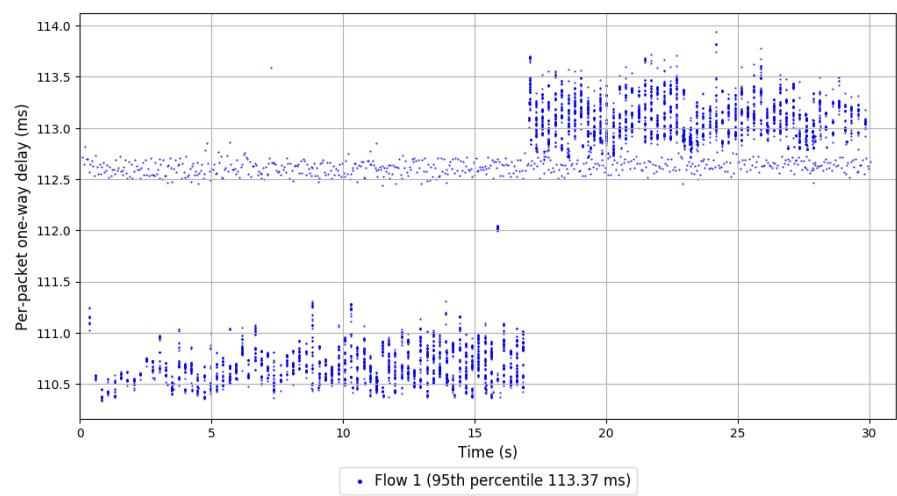
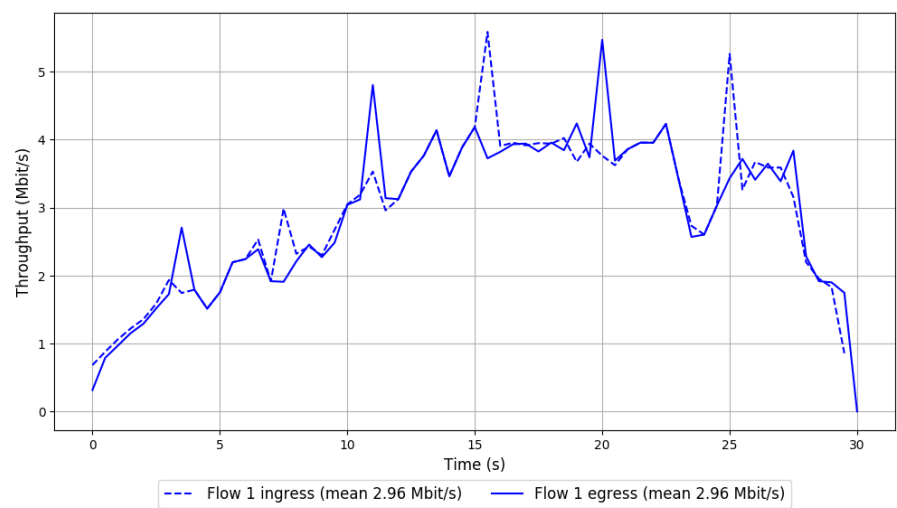
-- Flow 1:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 113.368 ms

Loss rate: 0.28%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-21 00:25:30

End at: 2017-11-21 00:26:00

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 113.401 ms

Loss rate: 0.21%

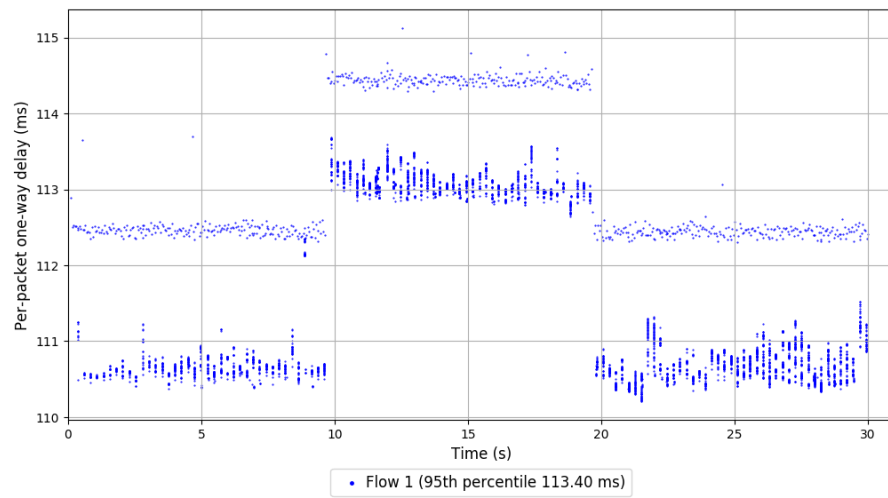
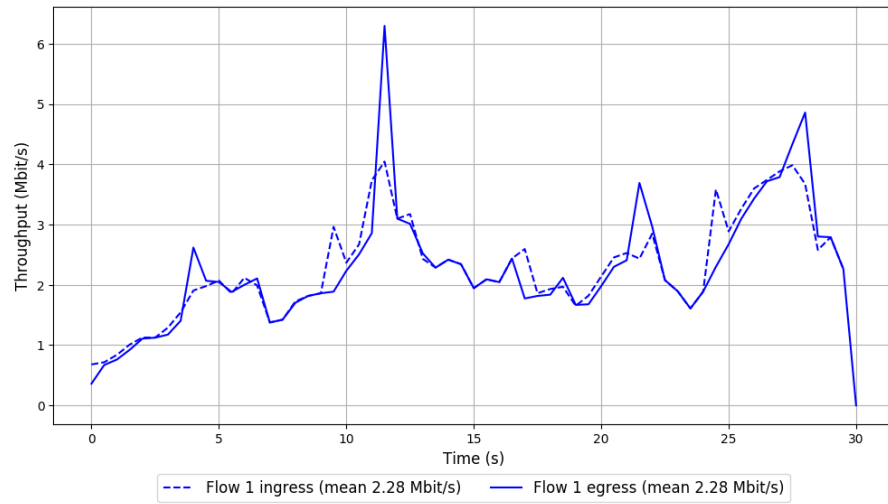
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 113.401 ms

Loss rate: 0.21%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-21 00:36:48

End at: 2017-11-21 00:37:18

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 113.398 ms

Loss rate: 0.40%

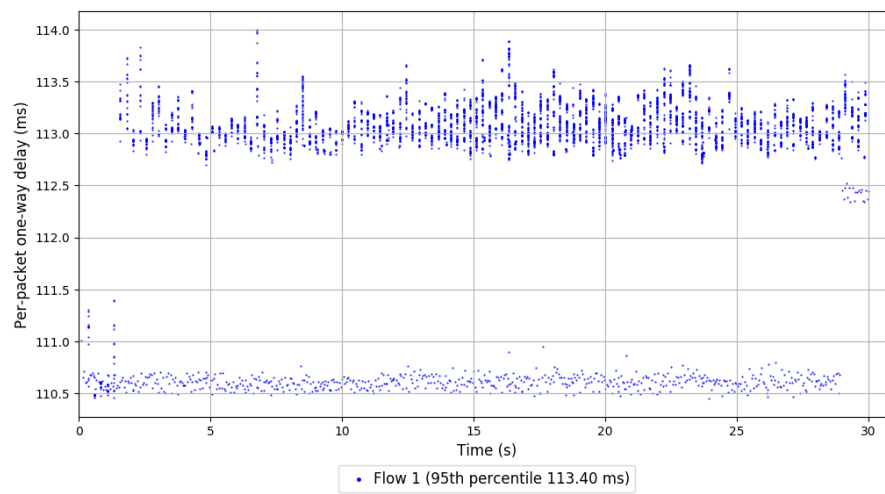
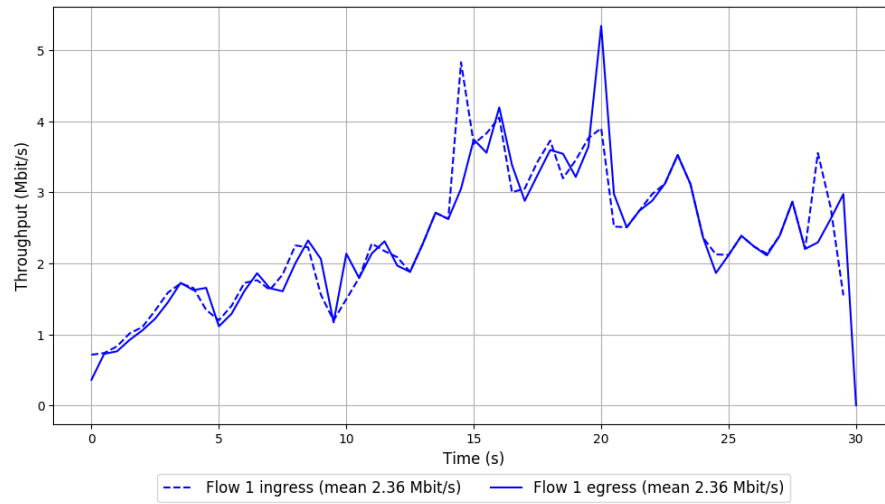
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 113.398 ms

Loss rate: 0.40%

## Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-21 00:47:55

End at: 2017-11-21 00:48:25

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 113.230 ms

Loss rate: 0.24%

-- Flow 1:

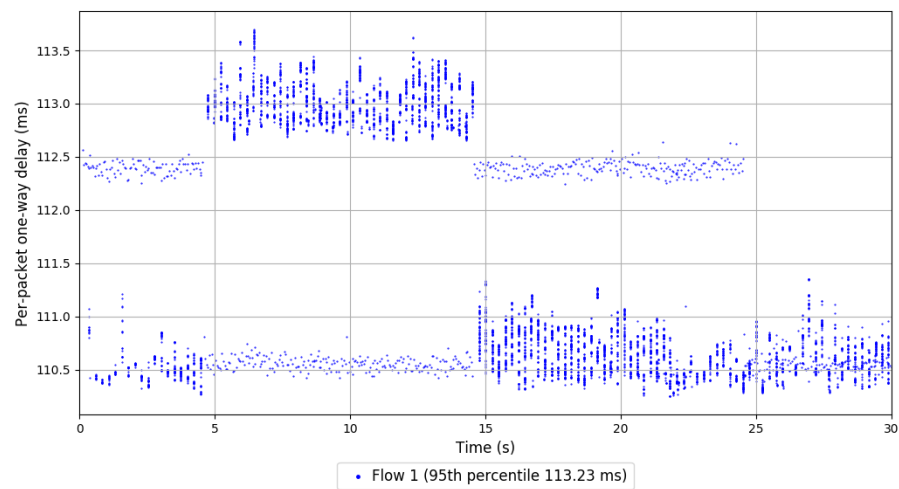
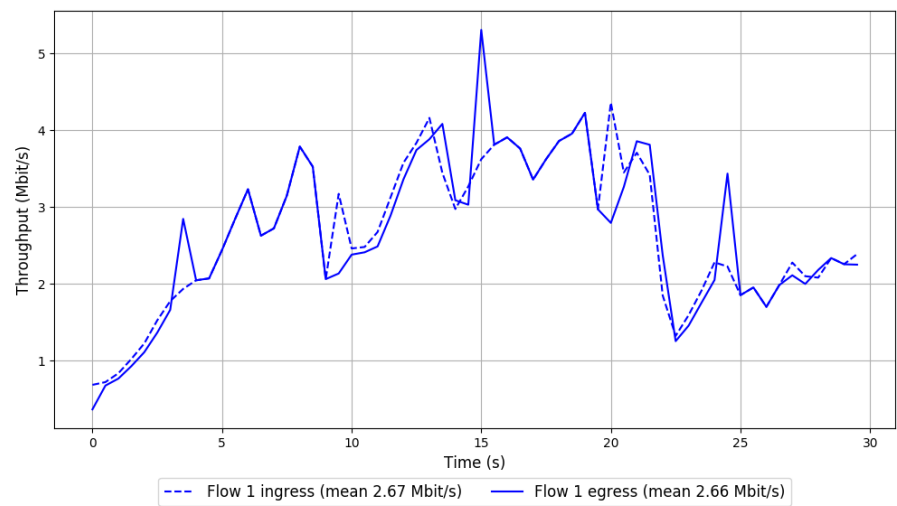
Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 113.230 ms

Loss rate: 0.24%



Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-21 00:58:57

End at: 2017-11-21 00:59:27

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 113.361 ms

Loss rate: 0.72%

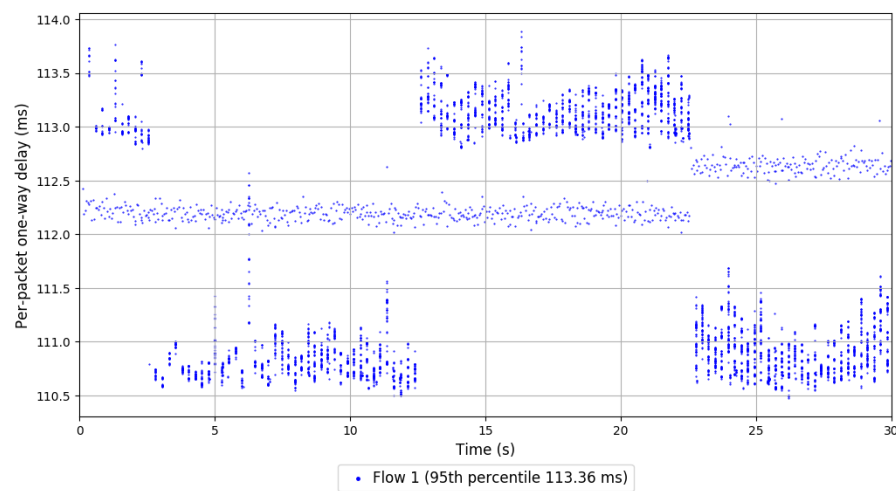
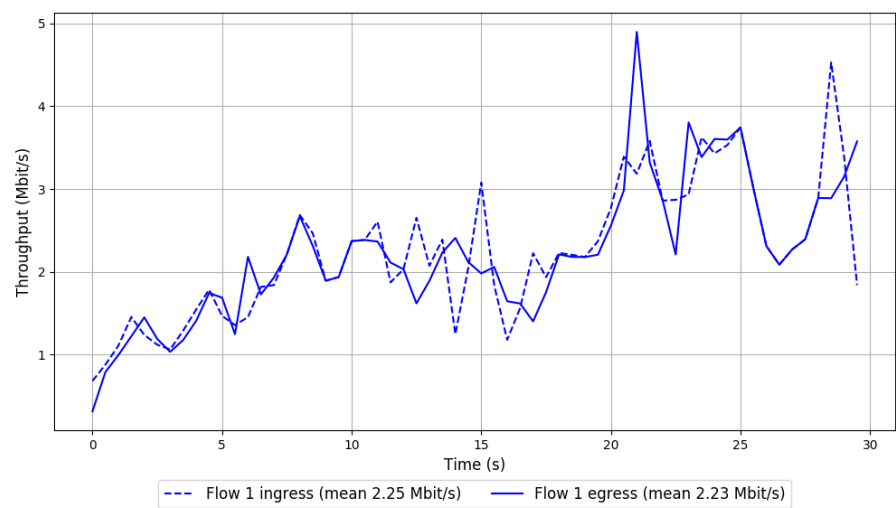
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 113.361 ms

Loss rate: 0.72%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-21 01:10:09

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

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 113.067 ms

Loss rate: 0.92%

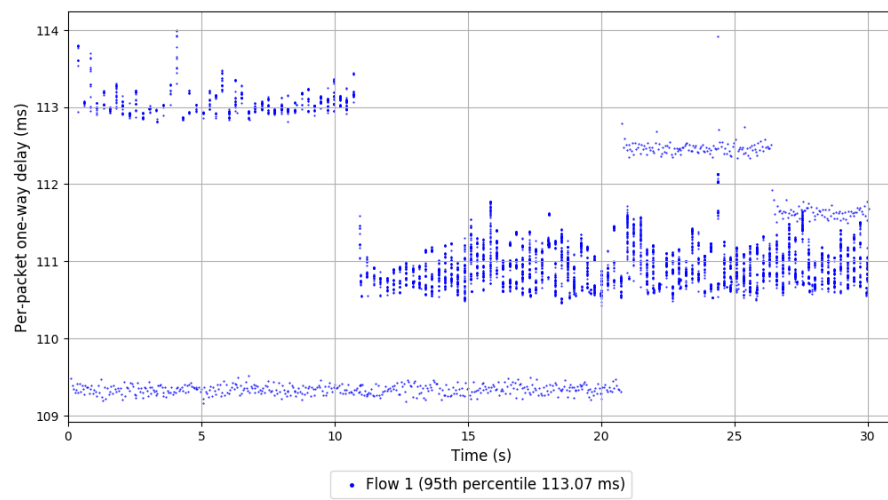
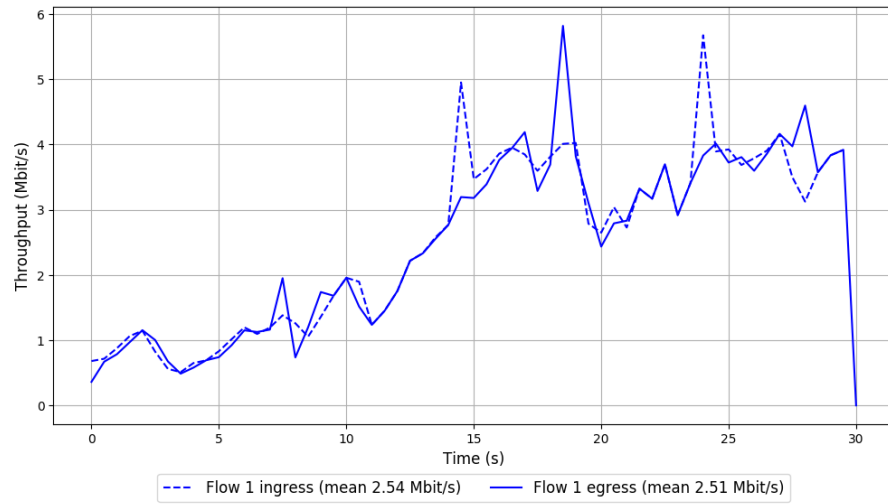
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 113.067 ms

Loss rate: 0.92%

### Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

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

End at: 2017-11-21 01:21:40

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.83 Mbit/s

95th percentile per-packet one-way delay: 113.465 ms

Loss rate: 0.27%

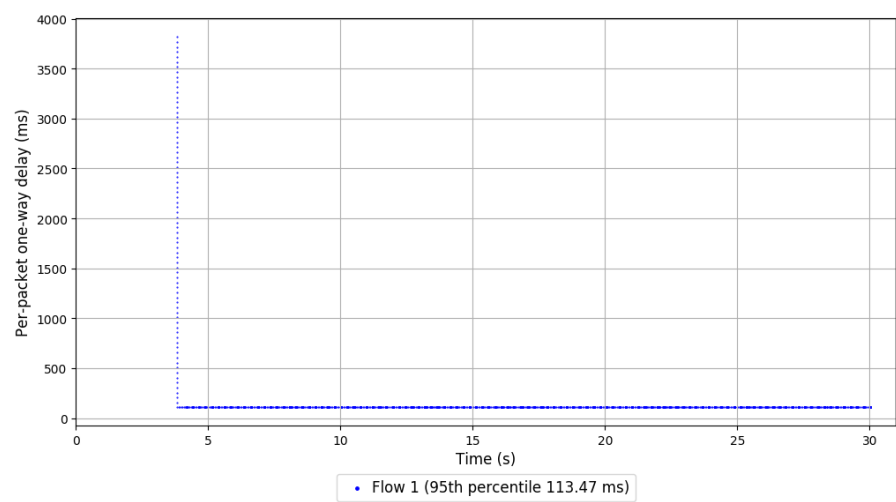
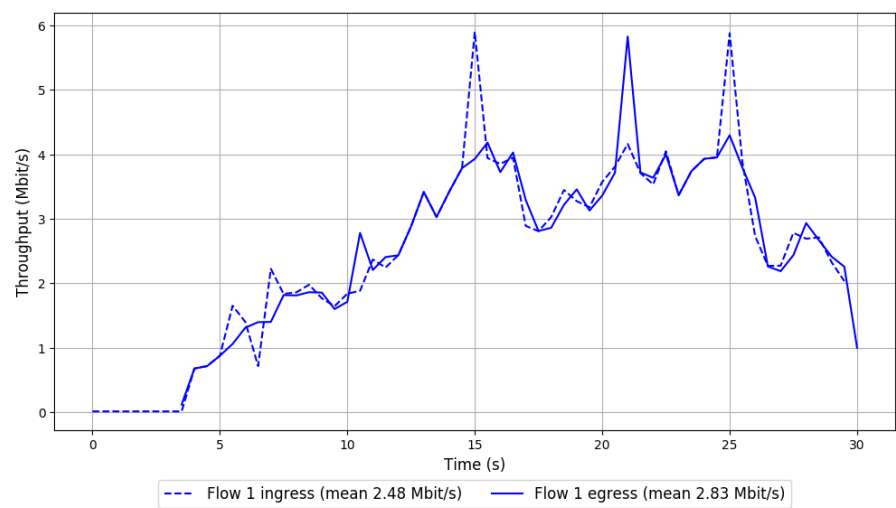
-- Flow 1:

Average throughput: 2.83 Mbit/s

95th percentile per-packet one-way delay: 113.465 ms

Loss rate: 0.27%

Run 10: Report of Sprout — Data Link



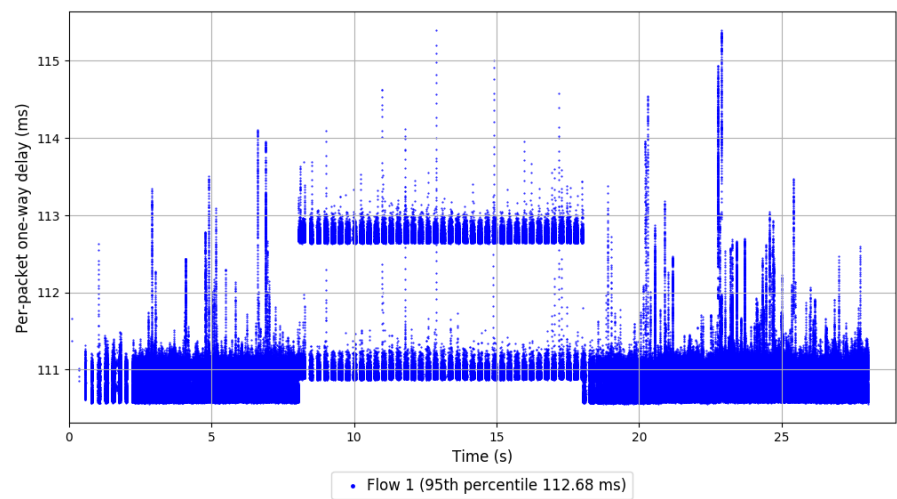
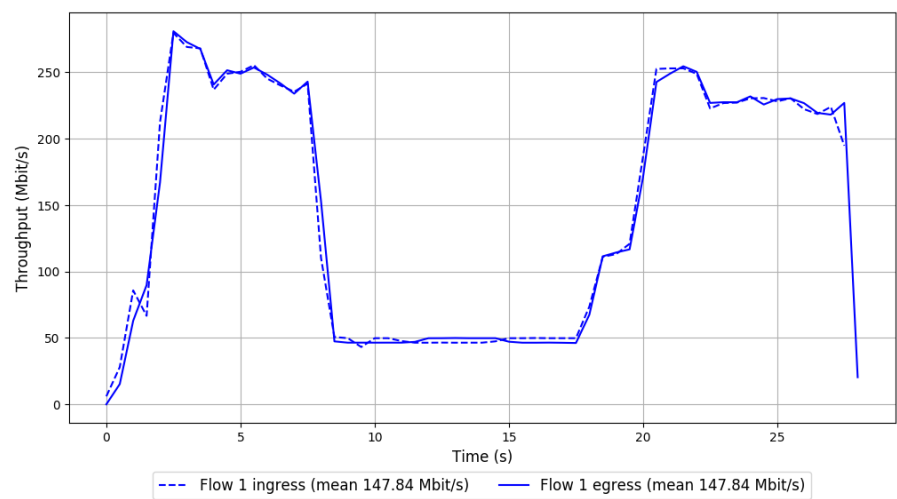
```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-20 23:31:10
End at: 2017-11-20 23:31:40

# Below is generated by plot.py at 2017-11-21 02:25:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.84 Mbit/s
95th percentile per-packet one-way delay: 112.683 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.84 Mbit/s
95th percentile per-packet one-way delay: 112.683 ms
Loss rate: 0.00%
```



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

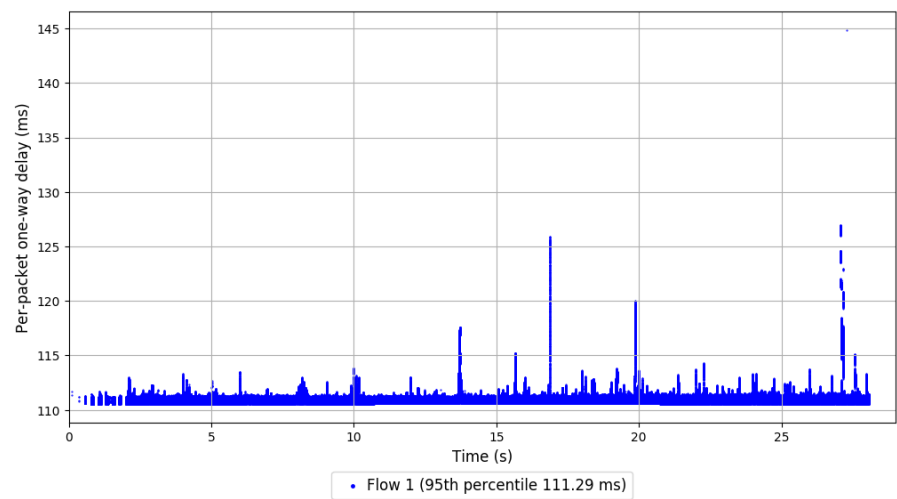
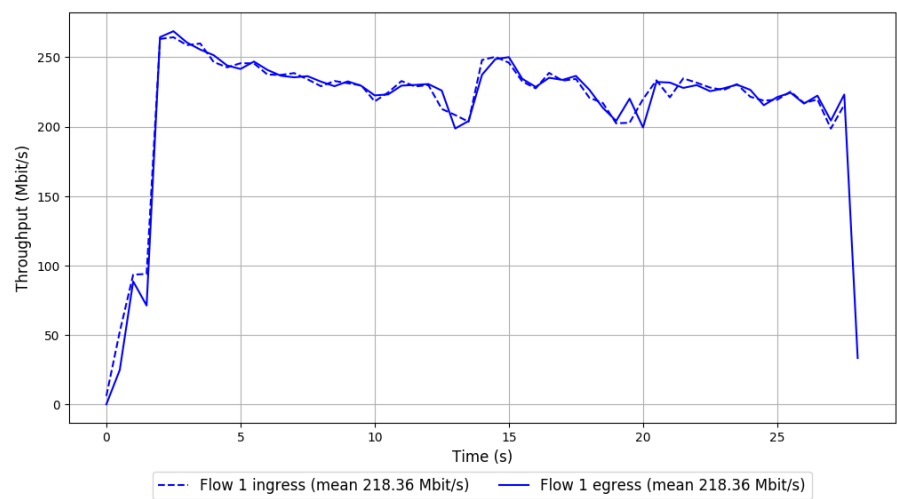


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-20 23:42:25
End at: 2017-11-20 23:42:55

# Below is generated by plot.py at 2017-11-21 02:25:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.36 Mbit/s
95th percentile per-packet one-way delay: 111.292 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 218.36 Mbit/s
95th percentile per-packet one-way delay: 111.292 ms
Loss rate: 0.01%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-20 23:53:35

End at: 2017-11-20 23:54:05

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.55 Mbit/s

95th percentile per-packet one-way delay: 111.709 ms

Loss rate: 0.00%

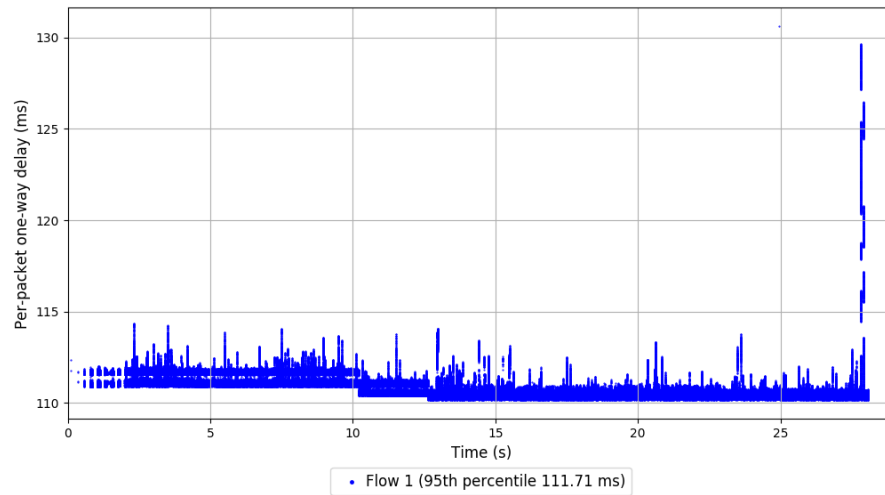
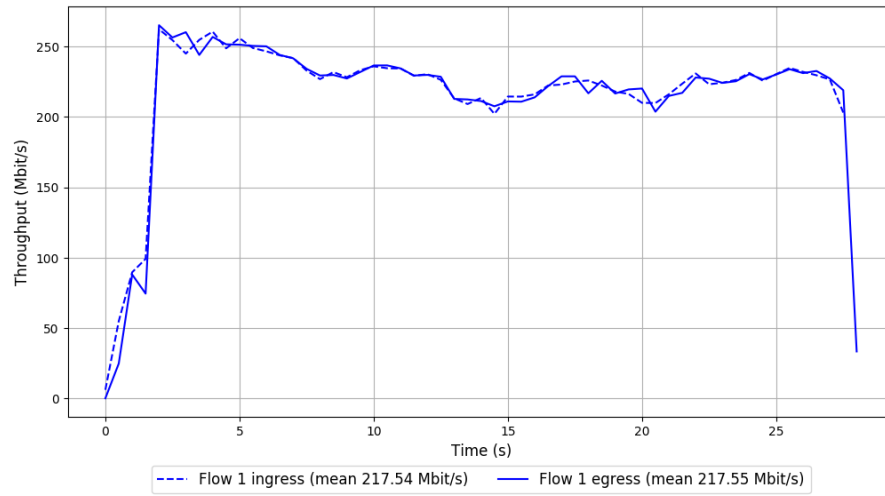
-- Flow 1:

Average throughput: 217.55 Mbit/s

95th percentile per-packet one-way delay: 111.709 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-21 00:04:56

End at: 2017-11-21 00:05:26

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 212.81 Mbit/s

95th percentile per-packet one-way delay: 110.459 ms

Loss rate: 0.00%

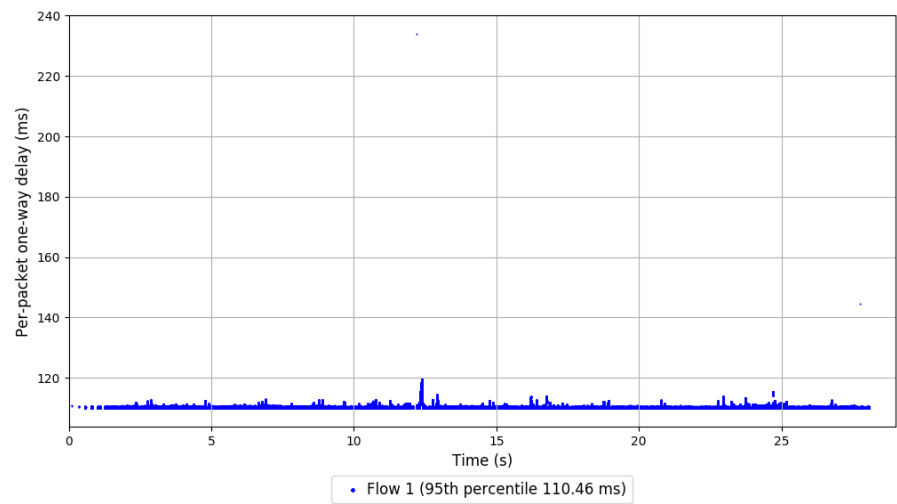
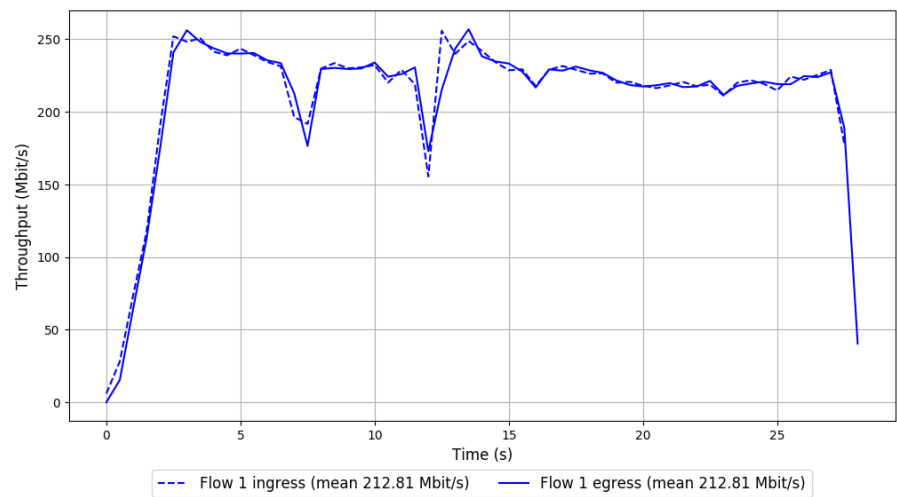
-- Flow 1:

Average throughput: 212.81 Mbit/s

95th percentile per-packet one-way delay: 110.459 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-21 00:16:11

End at: 2017-11-21 00:16:41

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 166.48 Mbit/s

95th percentile per-packet one-way delay: 112.817 ms

Loss rate: 0.01%

-- Flow 1:

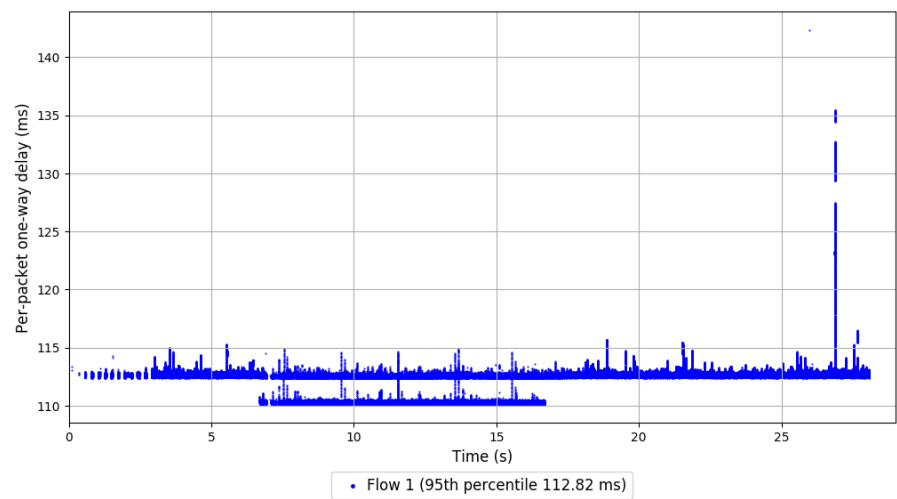
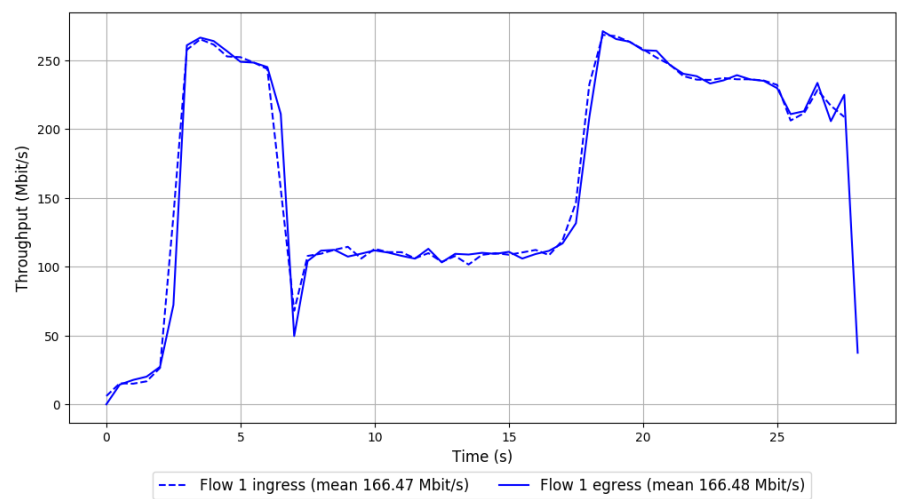
Average throughput: 166.48 Mbit/s

95th percentile per-packet one-way delay: 112.817 ms

Loss rate: 0.01%



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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-21 00:27:18

End at: 2017-11-21 00:27:48

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 191.04 Mbit/s

95th percentile per-packet one-way delay: 111.121 ms

Loss rate: 0.00%

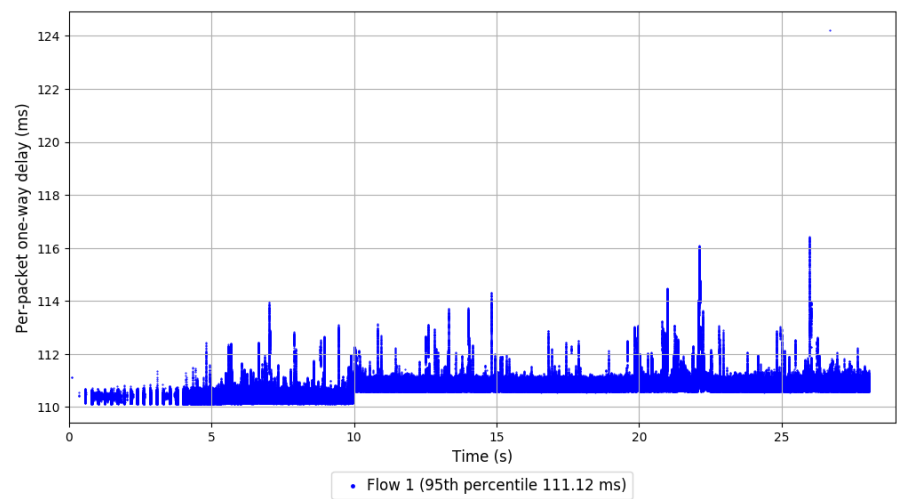
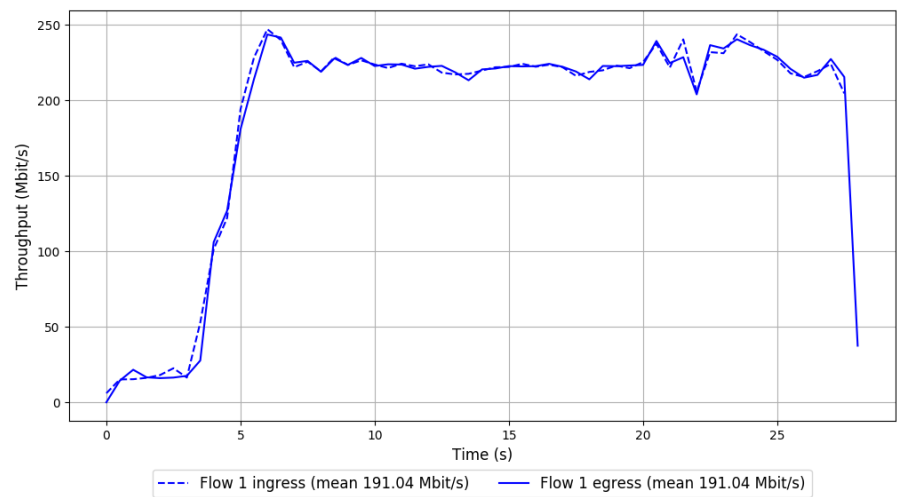
-- Flow 1:

Average throughput: 191.04 Mbit/s

95th percentile per-packet one-way delay: 111.121 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-21 00:38:36

End at: 2017-11-21 00:39:06

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 23.48 Mbit/s

95th percentile per-packet one-way delay: 112.721 ms

Loss rate: 0.00%

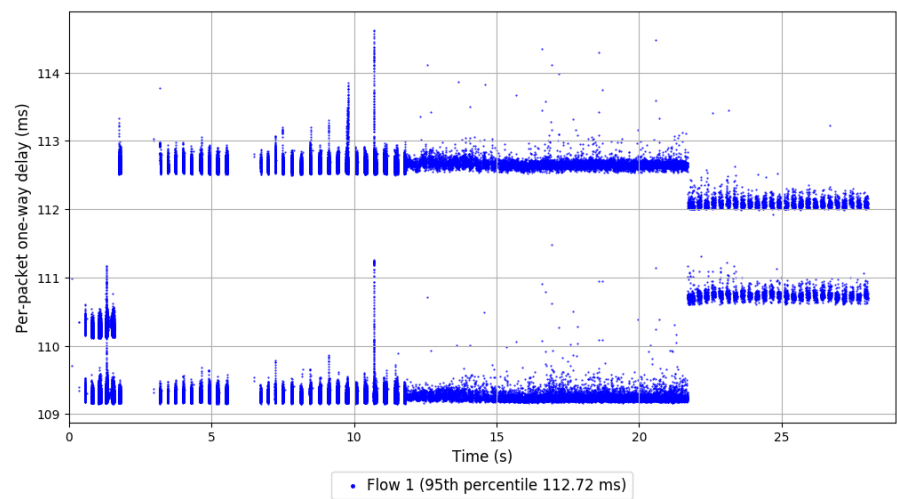
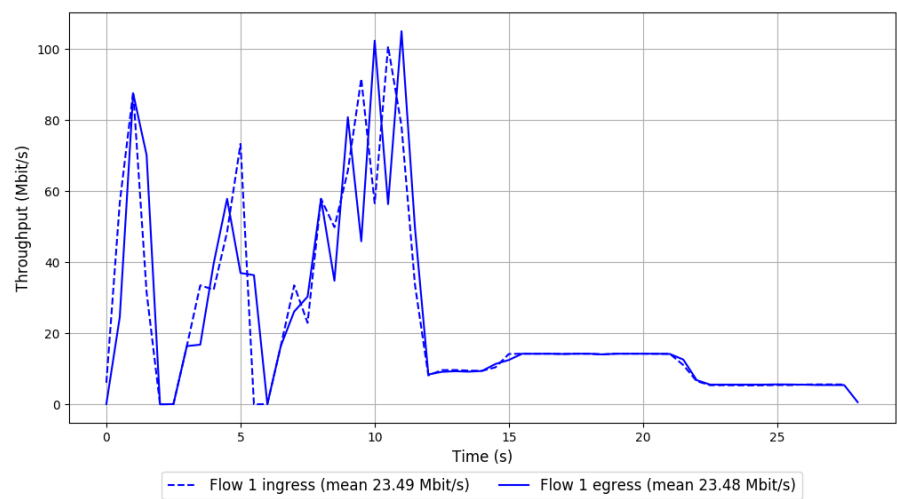
-- Flow 1:

Average throughput: 23.48 Mbit/s

95th percentile per-packet one-way delay: 112.721 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-21 00:49:44

End at: 2017-11-21 00:50:14

# Below is generated by plot.py at 2017-11-21 02:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.39 Mbit/s

95th percentile per-packet one-way delay: 114.386 ms

Loss rate: 0.00%

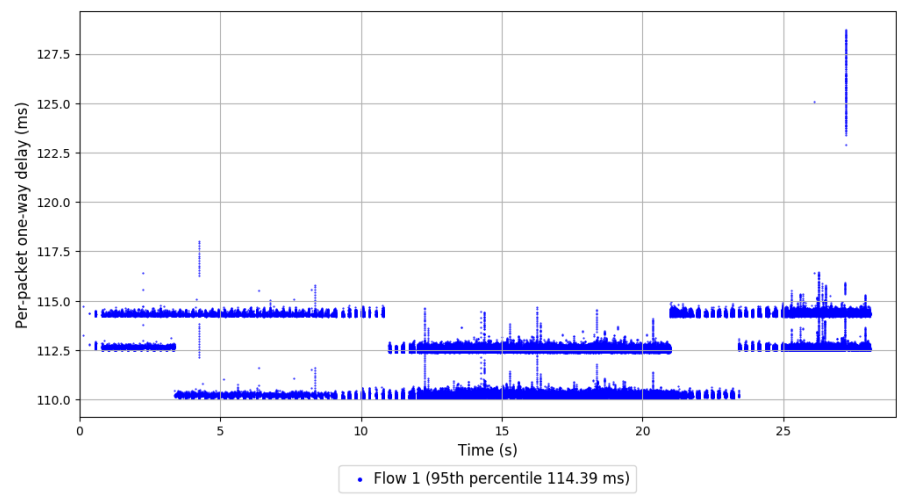
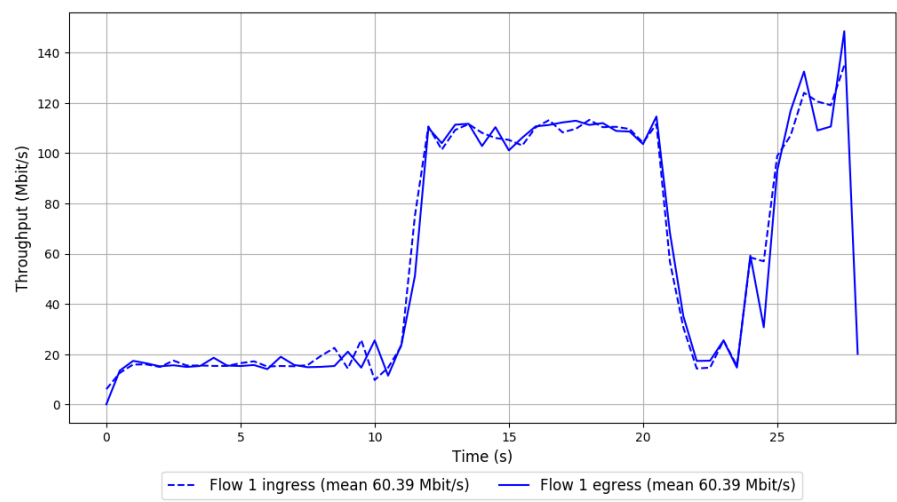
-- Flow 1:

Average throughput: 60.39 Mbit/s

95th percentile per-packet one-way delay: 114.386 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-21 01:00:46

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

# Below is generated by plot.py at 2017-11-21 02:26:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 176.20 Mbit/s

95th percentile per-packet one-way delay: 110.934 ms

Loss rate: 0.00%

-- Flow 1:

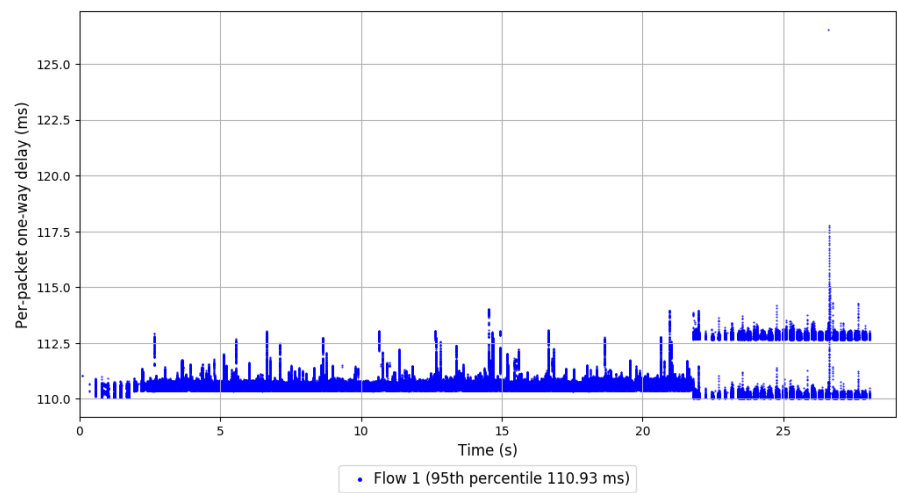
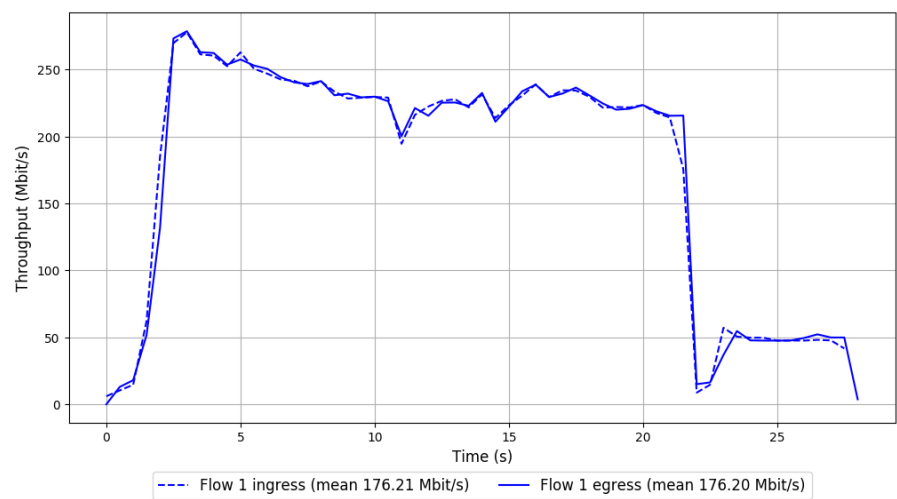
Average throughput: 176.20 Mbit/s

95th percentile per-packet one-way delay: 110.934 ms

Loss rate: 0.00%



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

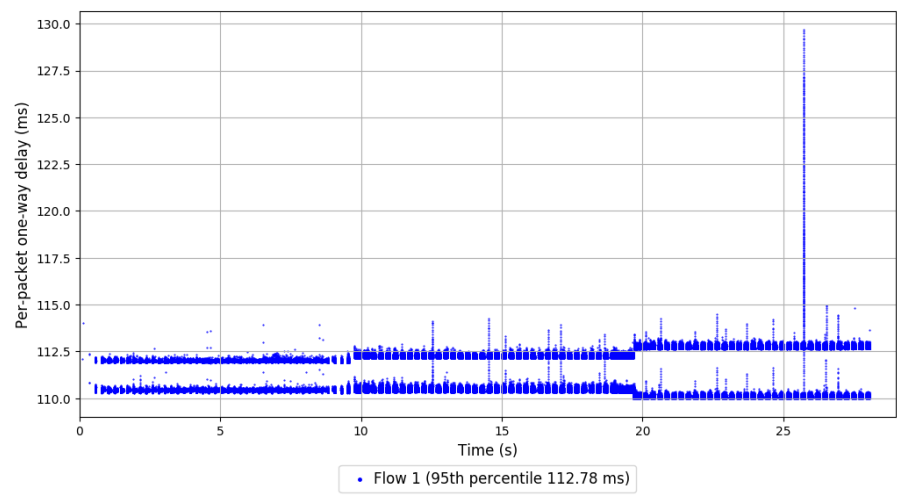
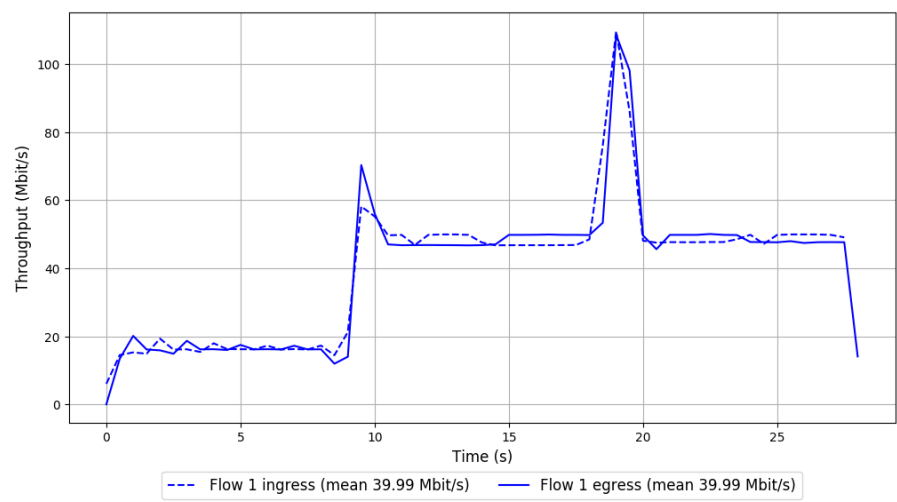


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-21 01:11:58
End at: 2017-11-21 01:12:28

# Below is generated by plot.py at 2017-11-21 02:26:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.99 Mbit/s
95th percentile per-packet one-way delay: 112.785 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.99 Mbit/s
95th percentile per-packet one-way delay: 112.785 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-20 23:34:07

End at: 2017-11-20 23:34:37

# Below is generated by plot.py at 2017-11-21 02:26:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 25.76 Mbit/s

95th percentile per-packet one-way delay: 112.000 ms

Loss rate: 0.03%

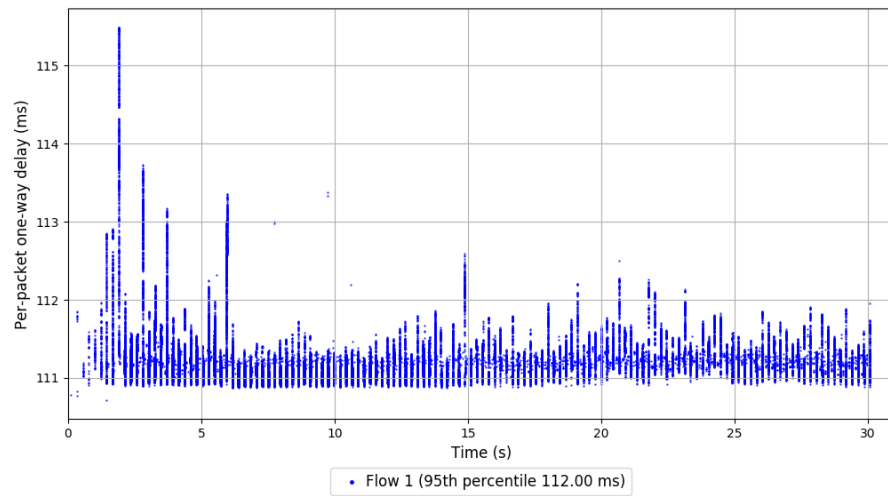
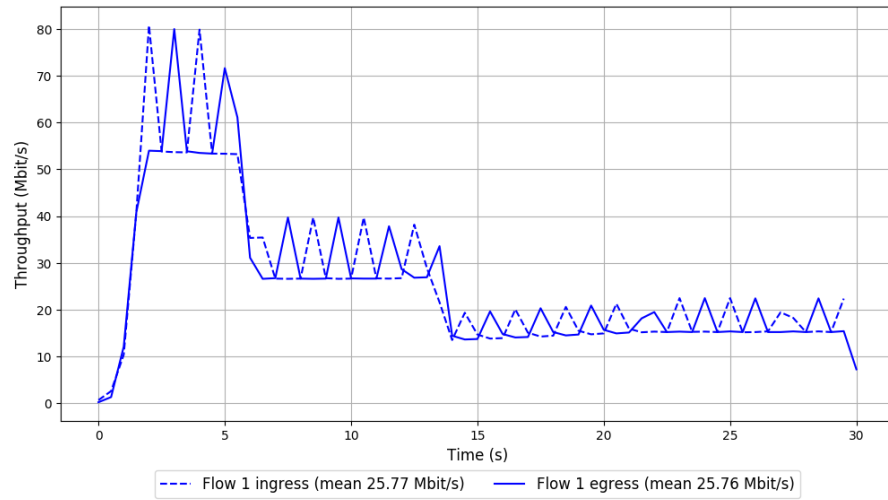
-- Flow 1:

Average throughput: 25.76 Mbit/s

95th percentile per-packet one-way delay: 112.000 ms

Loss rate: 0.03%

### Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-20 23:45:29

End at: 2017-11-20 23:45:59

# Below is generated by plot.py at 2017-11-21 02:26:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.59 Mbit/s

95th percentile per-packet one-way delay: 112.969 ms

Loss rate: 0.03%

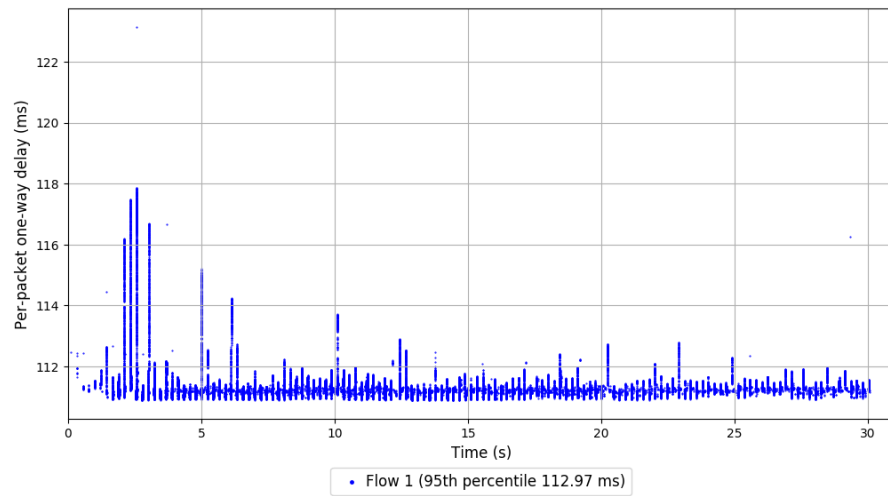
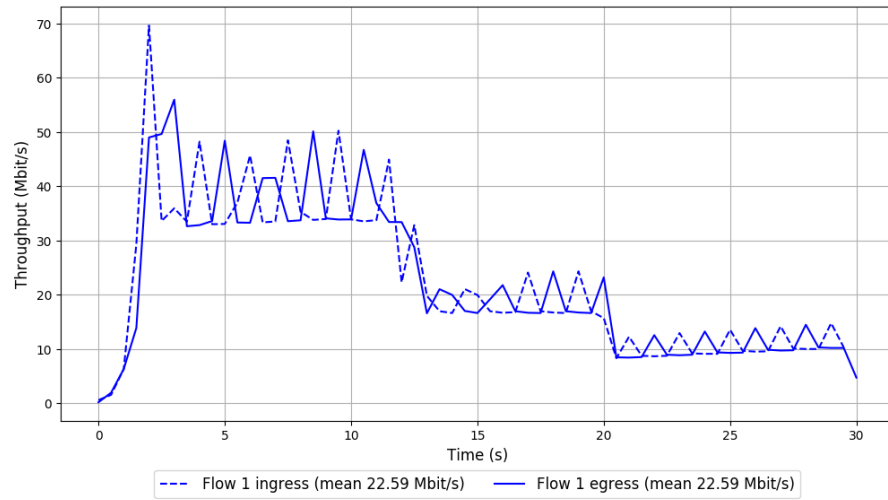
-- Flow 1:

Average throughput: 22.59 Mbit/s

95th percentile per-packet one-way delay: 112.969 ms

Loss rate: 0.03%

## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-20 23:56:40

End at: 2017-11-20 23:57:10

# Below is generated by plot.py at 2017-11-21 02:26:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 65.36 Mbit/s

95th percentile per-packet one-way delay: 112.083 ms

Loss rate: 0.00%

-- Flow 1:

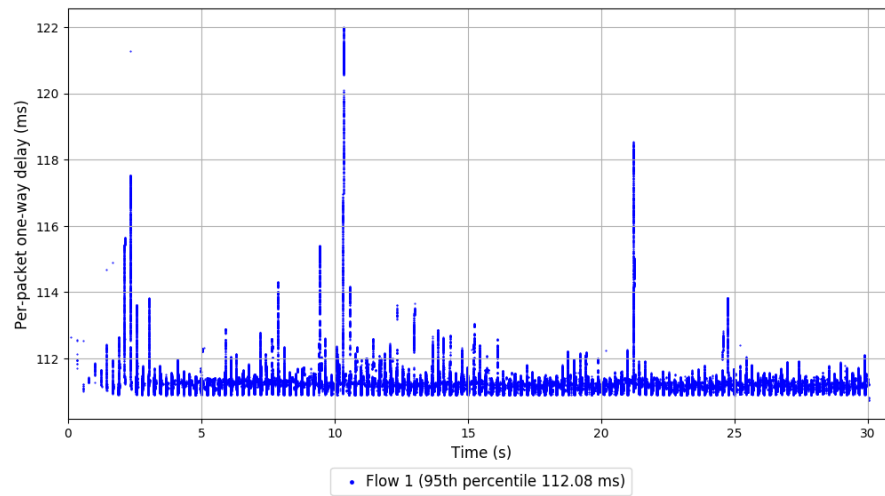
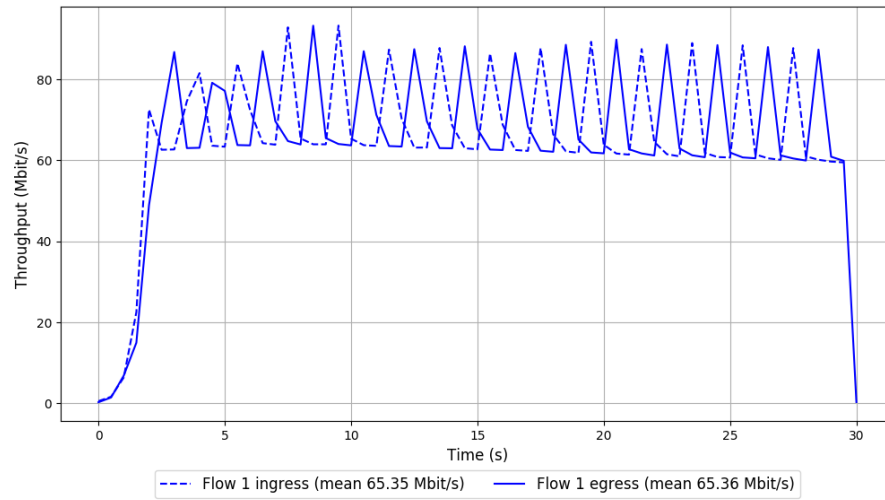
Average throughput: 65.36 Mbit/s

95th percentile per-packet one-way delay: 112.083 ms

Loss rate: 0.00%



### Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-21 00:08:00

End at: 2017-11-21 00:08:30

# Below is generated by plot.py at 2017-11-21 02:26:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 16.24 Mbit/s

95th percentile per-packet one-way delay: 114.625 ms

Loss rate: 0.02%

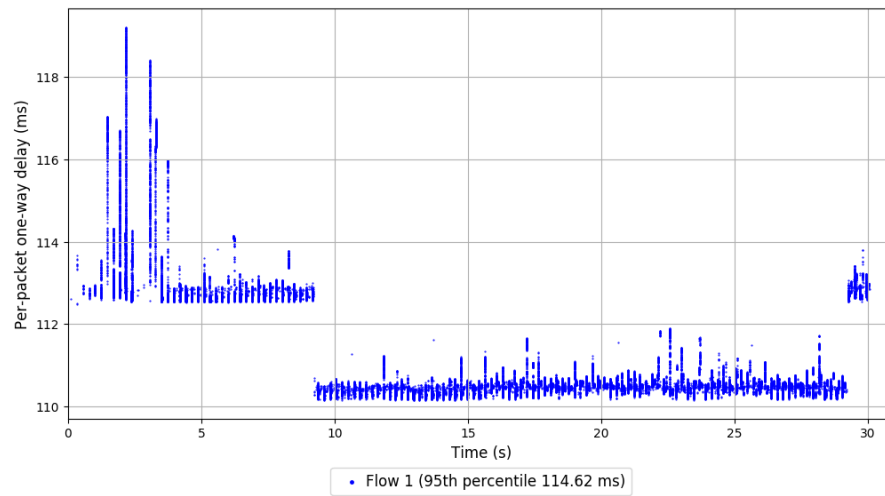
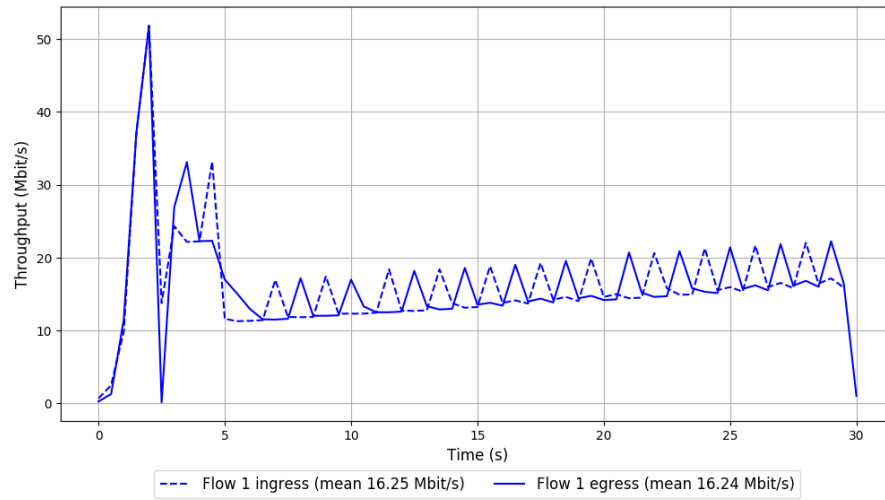
-- Flow 1:

Average throughput: 16.24 Mbit/s

95th percentile per-packet one-way delay: 114.625 ms

Loss rate: 0.02%

#### Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-21 00:19:10

End at: 2017-11-21 00:19:40

# Below is generated by plot.py at 2017-11-21 02:26:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 113.130 ms

Loss rate: 0.05%

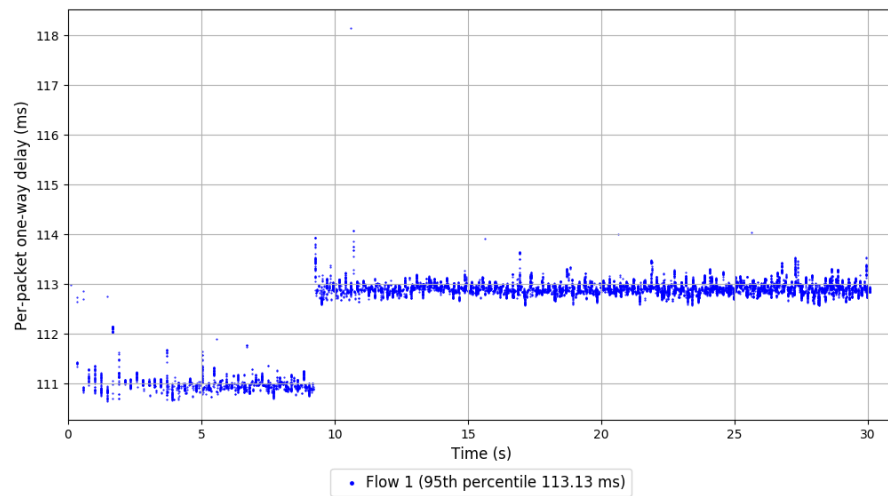
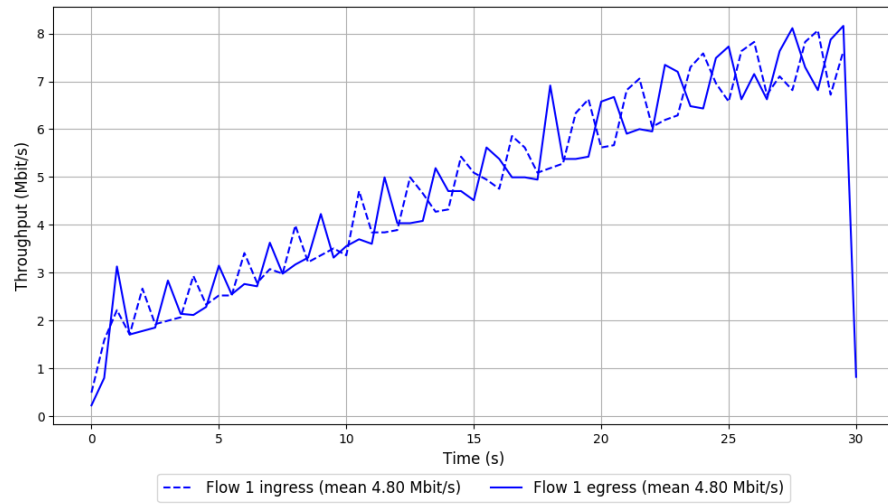
-- Flow 1:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 113.130 ms

Loss rate: 0.05%

### Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-21 00:30:20

End at: 2017-11-21 00:30:50

# Below is generated by plot.py at 2017-11-21 02:26:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 25.36 Mbit/s

95th percentile per-packet one-way delay: 113.818 ms

Loss rate: 0.03%

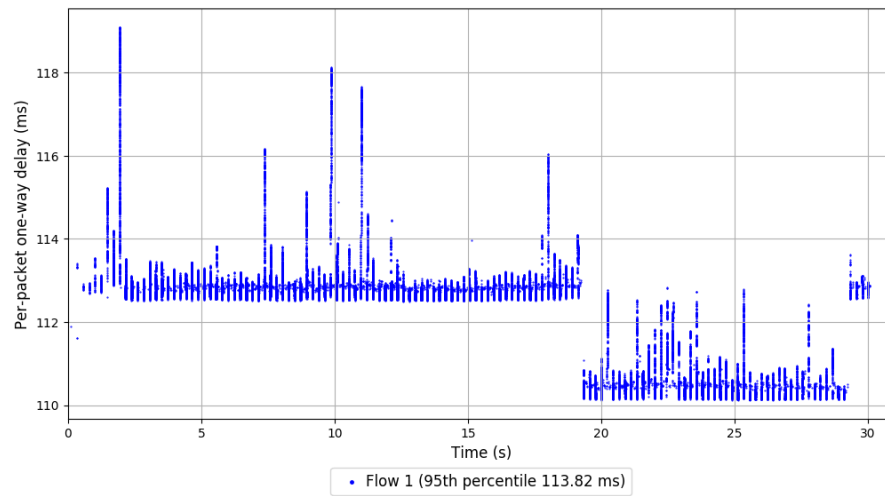
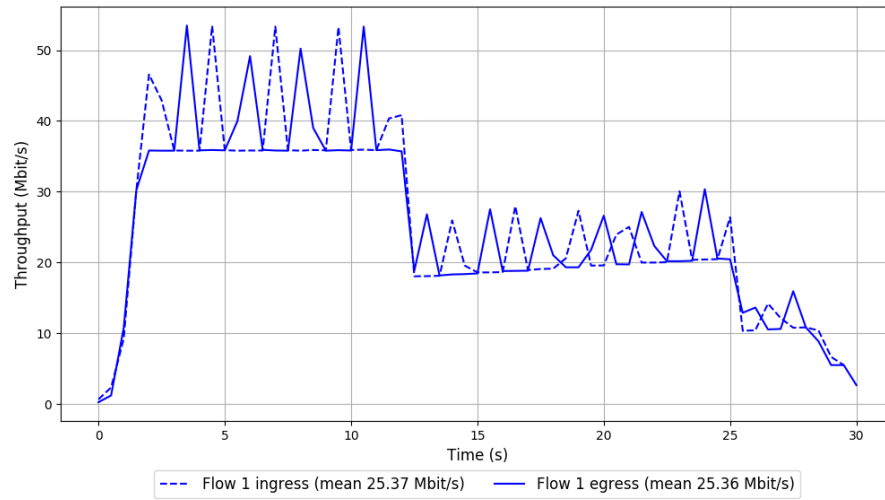
-- Flow 1:

Average throughput: 25.36 Mbit/s

95th percentile per-packet one-way delay: 113.818 ms

Loss rate: 0.03%

## Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-21 00:41:22

End at: 2017-11-21 00:41:52

# Below is generated by plot.py at 2017-11-21 02:26:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.98 Mbit/s

95th percentile per-packet one-way delay: 113.990 ms

Loss rate: 0.07%

-- Flow 1:

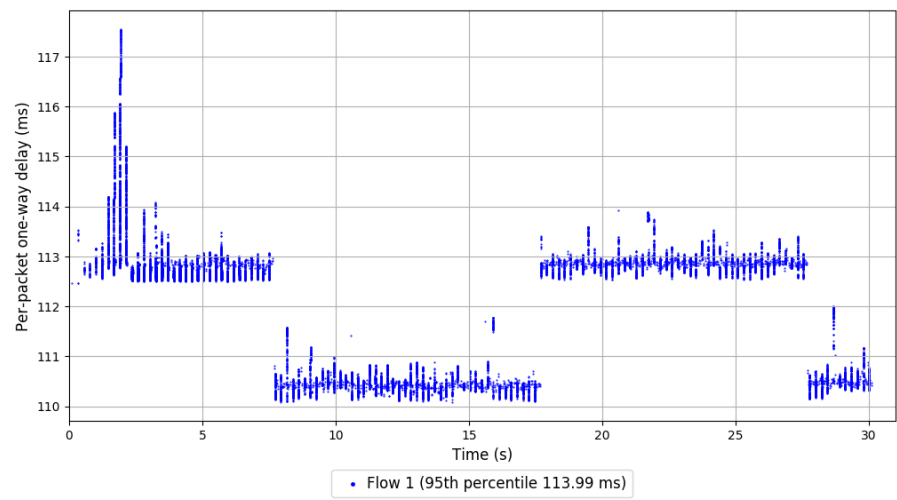
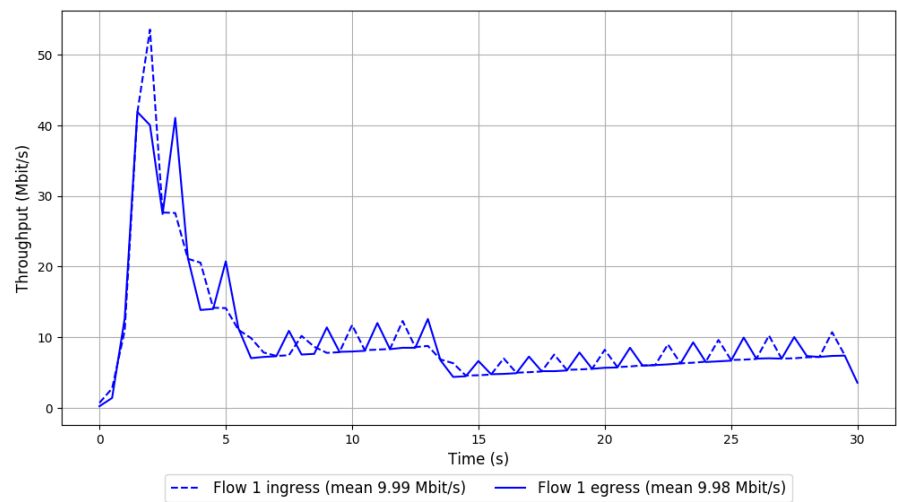
Average throughput: 9.98 Mbit/s

95th percentile per-packet one-way delay: 113.990 ms

Loss rate: 0.07%



Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-21 00:52:34

End at: 2017-11-21 00:53:04

# Below is generated by plot.py at 2017-11-21 02:26:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 114.037 ms

Loss rate: 0.07%

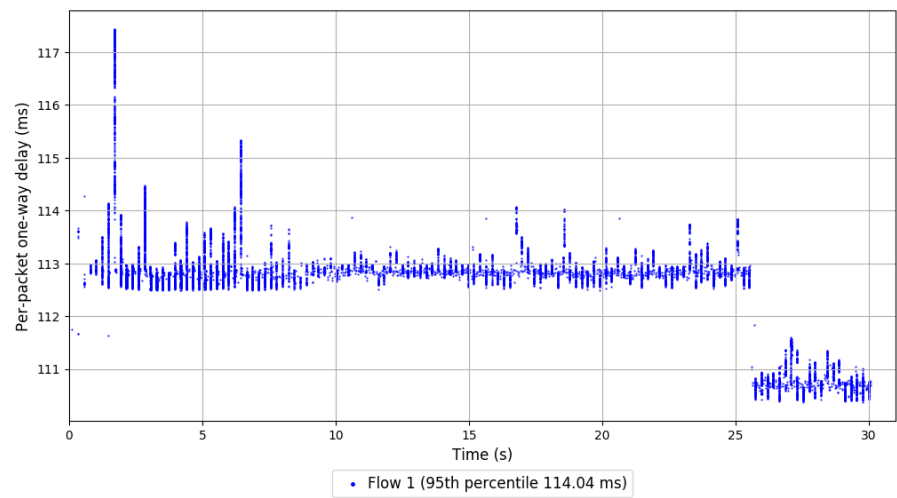
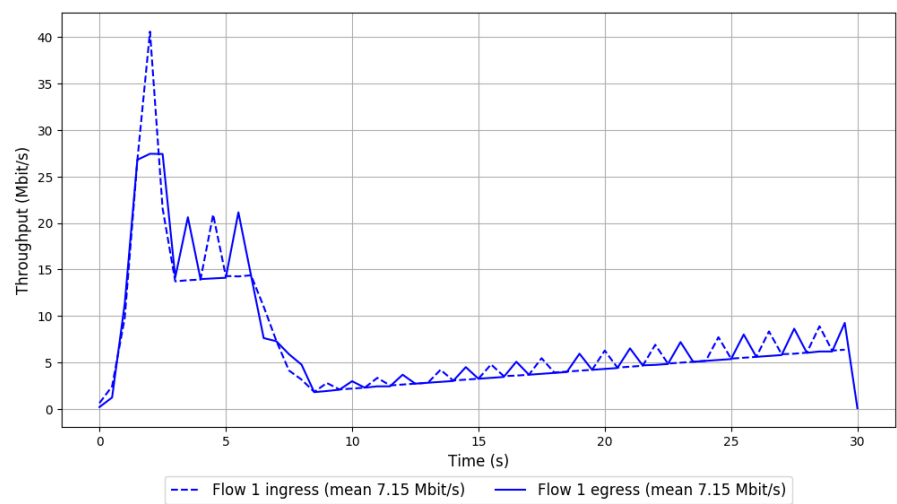
-- Flow 1:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 114.037 ms

Loss rate: 0.07%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-21 01:03:47

End at: 2017-11-21 01:04:17

# Below is generated by plot.py at 2017-11-21 02:26:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.01 Mbit/s

95th percentile per-packet one-way delay: 113.644 ms

Loss rate: 0.00%

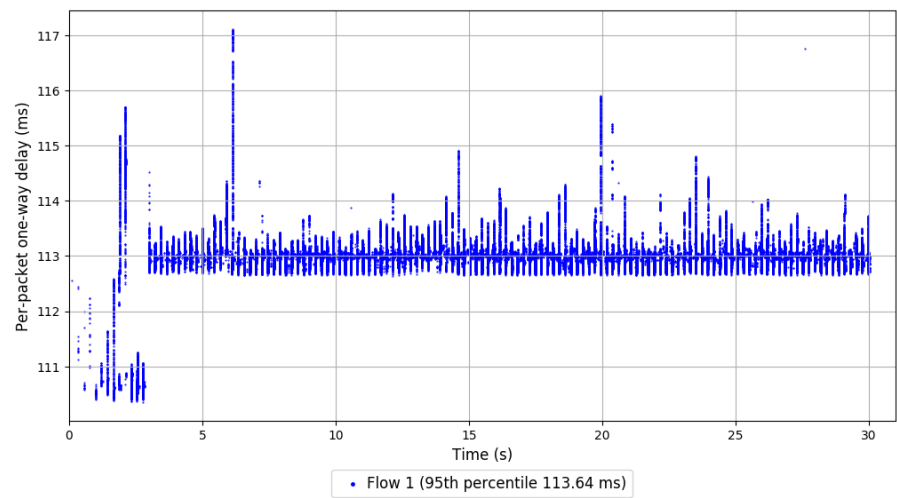
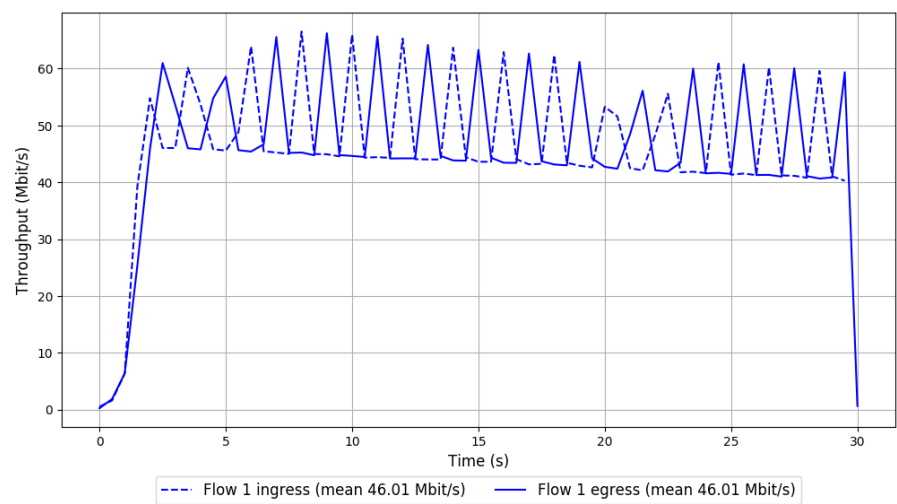
-- Flow 1:

Average throughput: 46.01 Mbit/s

95th percentile per-packet one-way delay: 113.644 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-21 01:14:45

End at: 2017-11-21 01:15:15

# Below is generated by plot.py at 2017-11-21 02:26:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 16.19 Mbit/s

95th percentile per-packet one-way delay: 113.176 ms

Loss rate: 0.03%

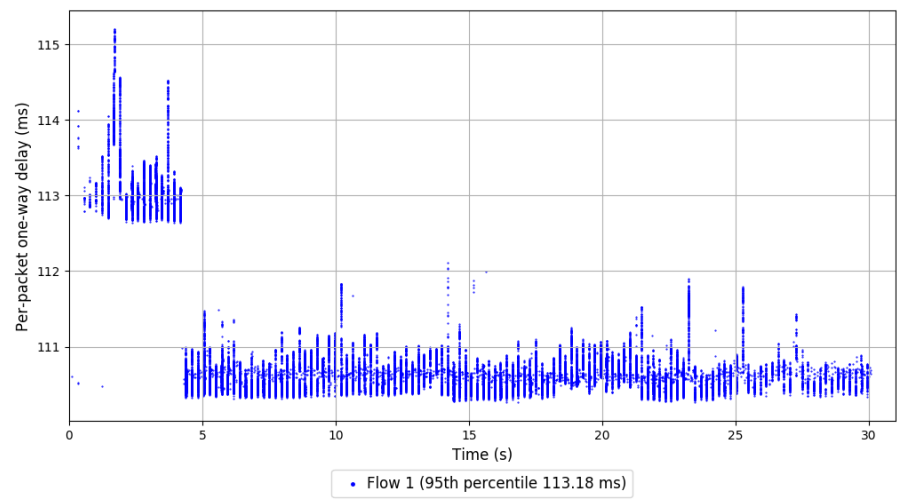
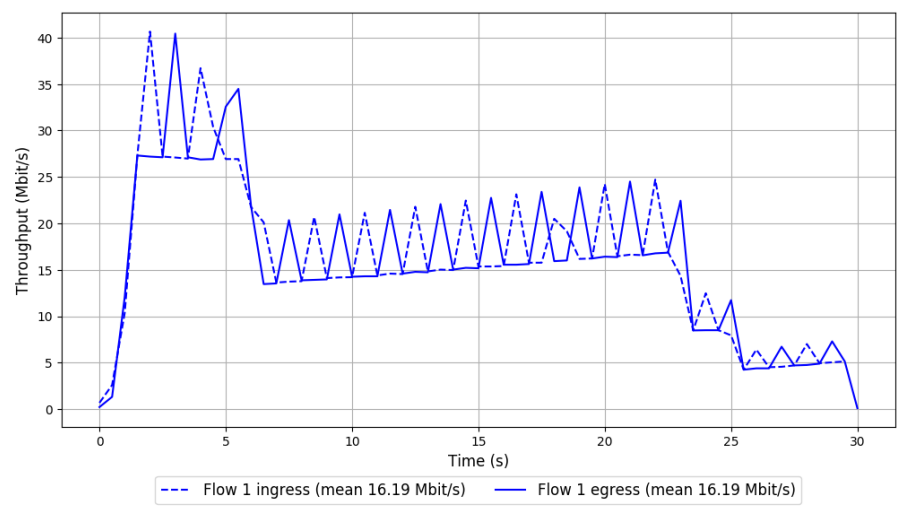
-- Flow 1:

Average throughput: 16.19 Mbit/s

95th percentile per-packet one-way delay: 113.176 ms

Loss rate: 0.03%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-20 23:36:23

End at: 2017-11-20 23:36:53

# Below is generated by plot.py at 2017-11-21 02:27:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 244.76 Mbit/s

95th percentile per-packet one-way delay: 143.847 ms

Loss rate: 0.32%

-- Flow 1:

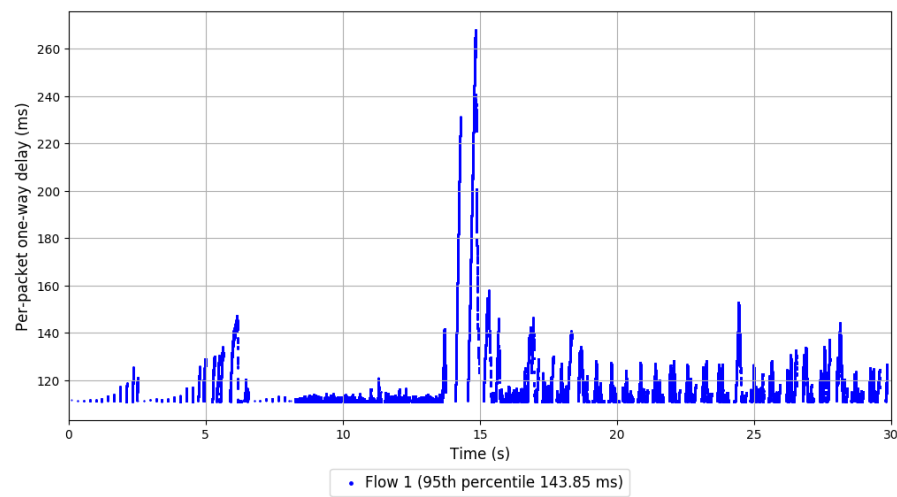
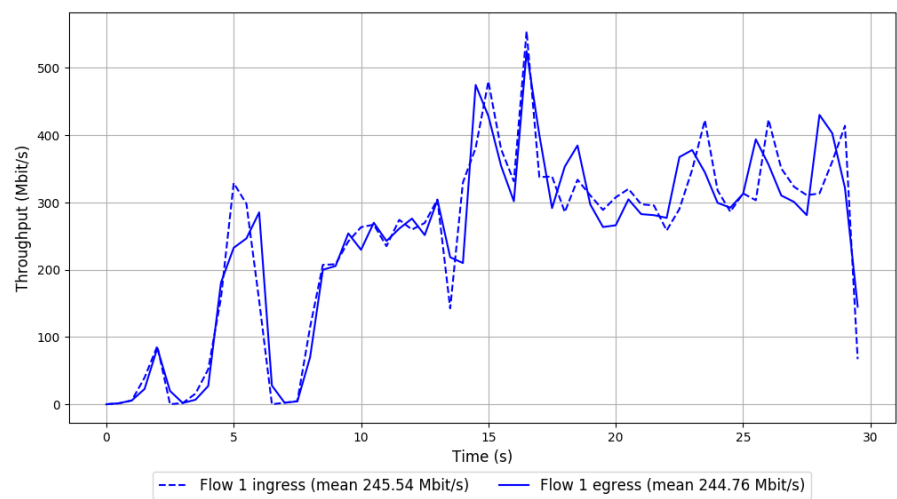
Average throughput: 244.76 Mbit/s

95th percentile per-packet one-way delay: 143.847 ms

Loss rate: 0.32%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-20 23:47:44

End at: 2017-11-20 23:48:14

# Below is generated by plot.py at 2017-11-21 02:27:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 120.43 Mbit/s

95th percentile per-packet one-way delay: 156.950 ms

Loss rate: 0.18%

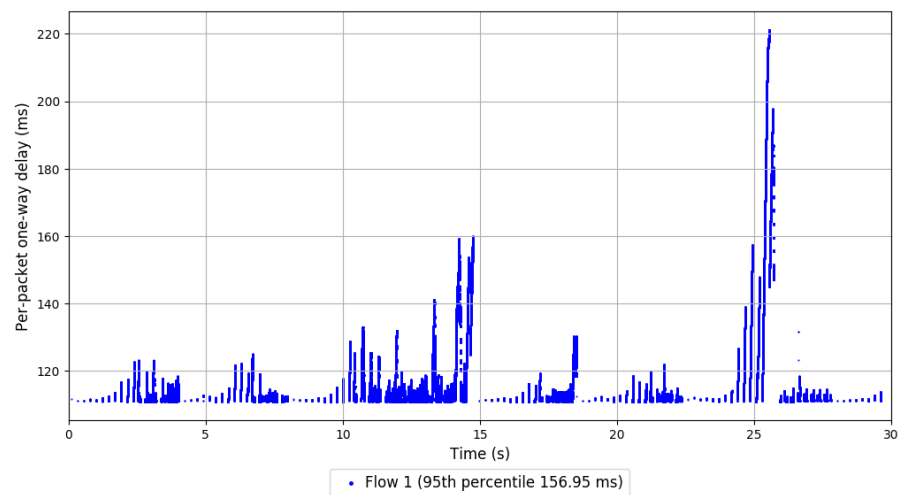
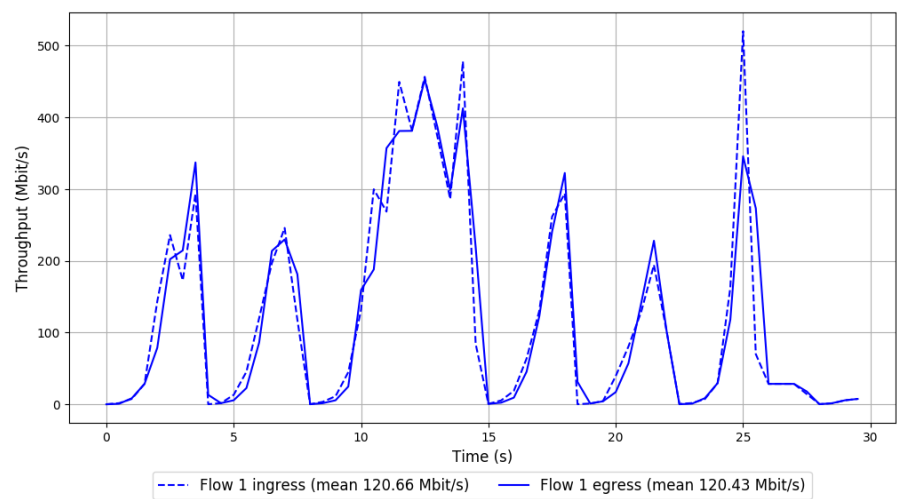
-- Flow 1:

Average throughput: 120.43 Mbit/s

95th percentile per-packet one-way delay: 156.950 ms

Loss rate: 0.18%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-20 23:58:58

End at: 2017-11-20 23:59:28

# Below is generated by plot.py at 2017-11-21 02:27:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 158.21 Mbit/s

95th percentile per-packet one-way delay: 157.633 ms

Loss rate: 0.47%

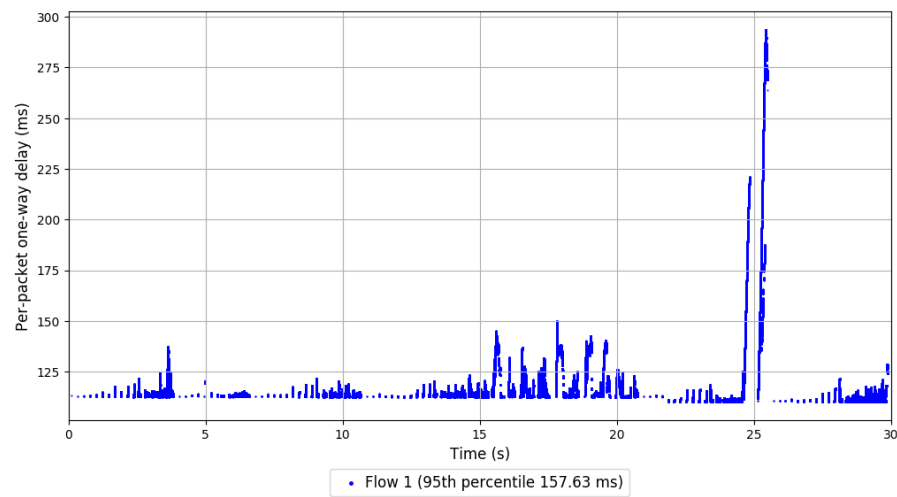
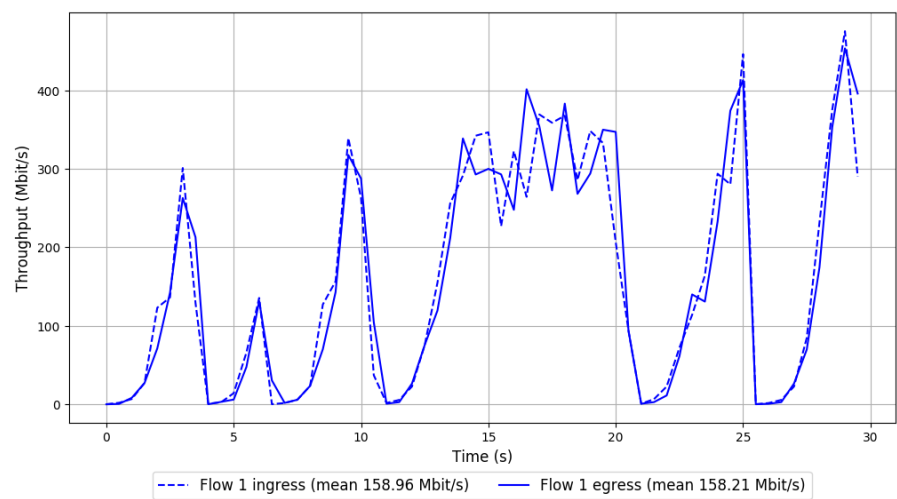
-- Flow 1:

Average throughput: 158.21 Mbit/s

95th percentile per-packet one-way delay: 157.633 ms

Loss rate: 0.47%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-21 00:10:14

End at: 2017-11-21 00:10:44

# Below is generated by plot.py at 2017-11-21 02:27:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 207.44 Mbit/s

95th percentile per-packet one-way delay: 151.047 ms

Loss rate: 0.01%

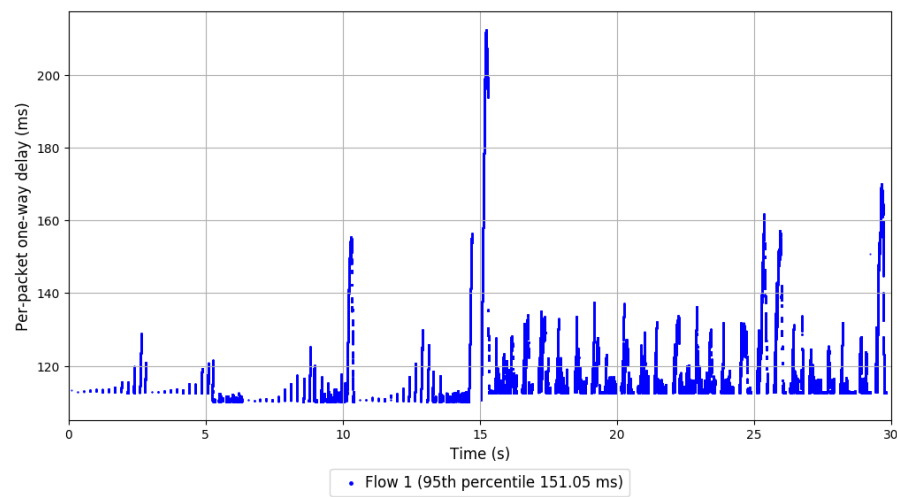
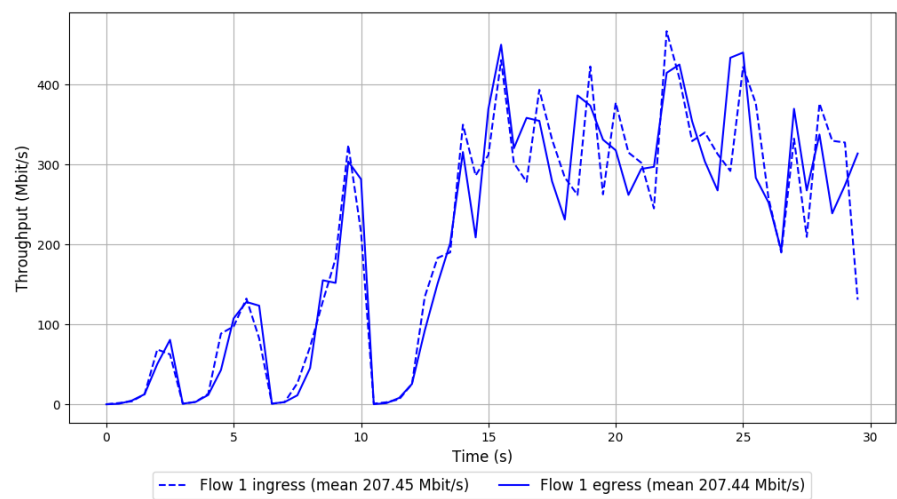
-- Flow 1:

Average throughput: 207.44 Mbit/s

95th percentile per-packet one-way delay: 151.047 ms

Loss rate: 0.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-21 00:21:25

End at: 2017-11-21 00:21:55

# Below is generated by plot.py at 2017-11-21 02:27:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 105.03 Mbit/s

95th percentile per-packet one-way delay: 124.497 ms

Loss rate: 0.01%

-- Flow 1:

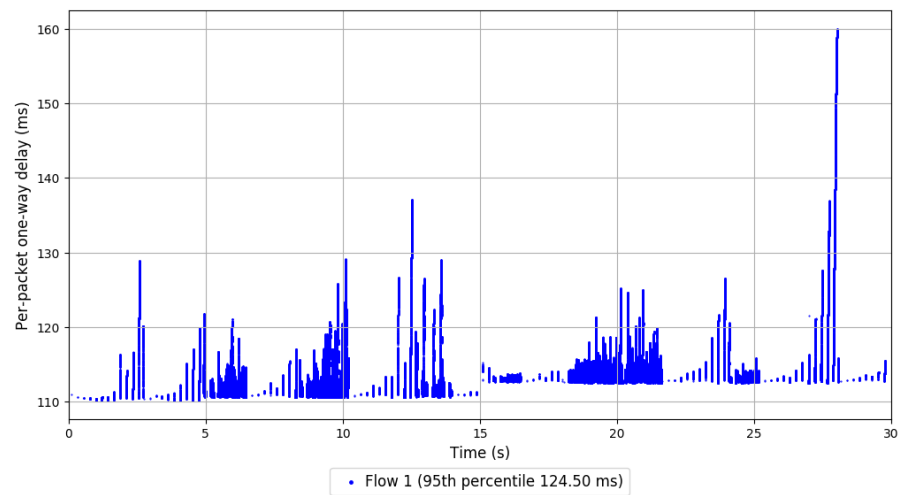
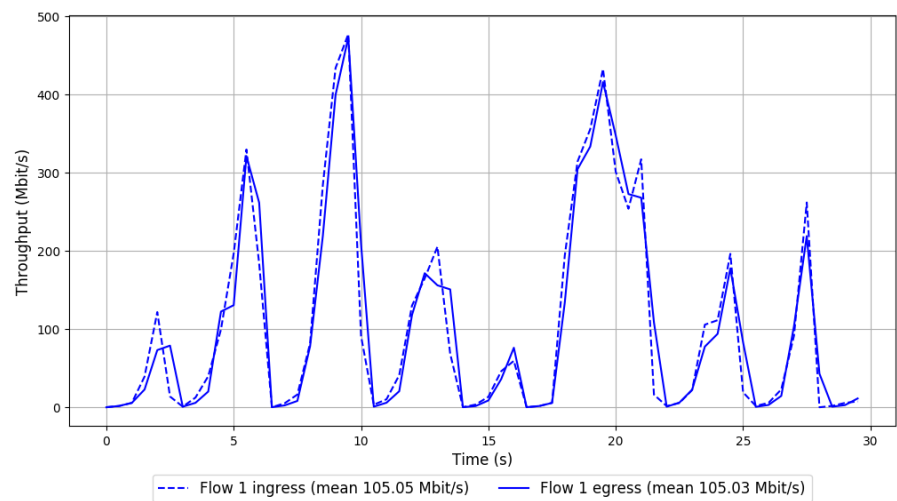
Average throughput: 105.03 Mbit/s

95th percentile per-packet one-way delay: 124.497 ms

Loss rate: 0.01%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-21 00:32:34

End at: 2017-11-21 00:33:04

# Below is generated by plot.py at 2017-11-21 02:28:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 227.01 Mbit/s

95th percentile per-packet one-way delay: 229.040 ms

Loss rate: 4.92%

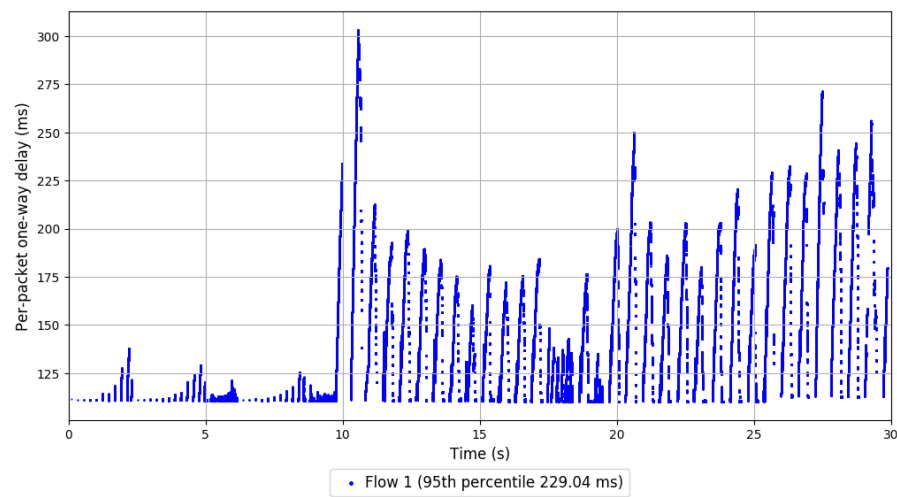
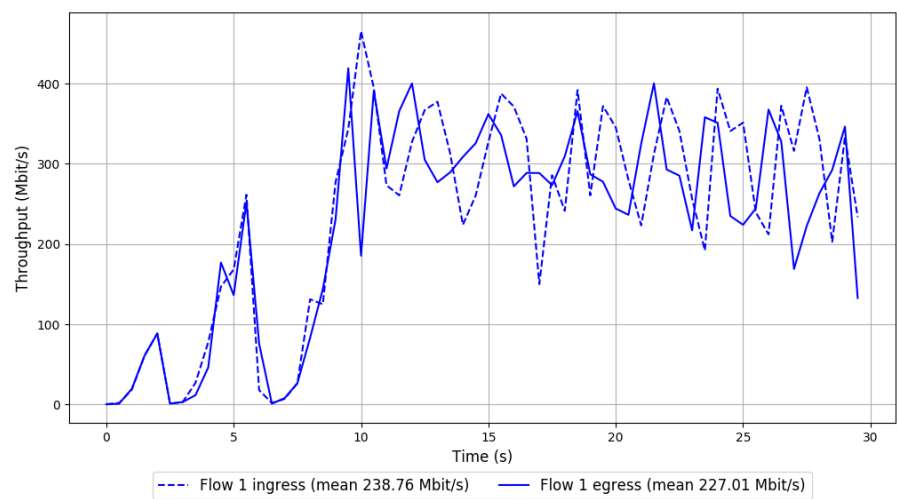
-- Flow 1:

Average throughput: 227.01 Mbit/s

95th percentile per-packet one-way delay: 229.040 ms

Loss rate: 4.92%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-21 00:43:37

End at: 2017-11-21 00:44:07

# Below is generated by plot.py at 2017-11-21 02:29:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 248.56 Mbit/s

95th percentile per-packet one-way delay: 171.934 ms

Loss rate: 0.10%

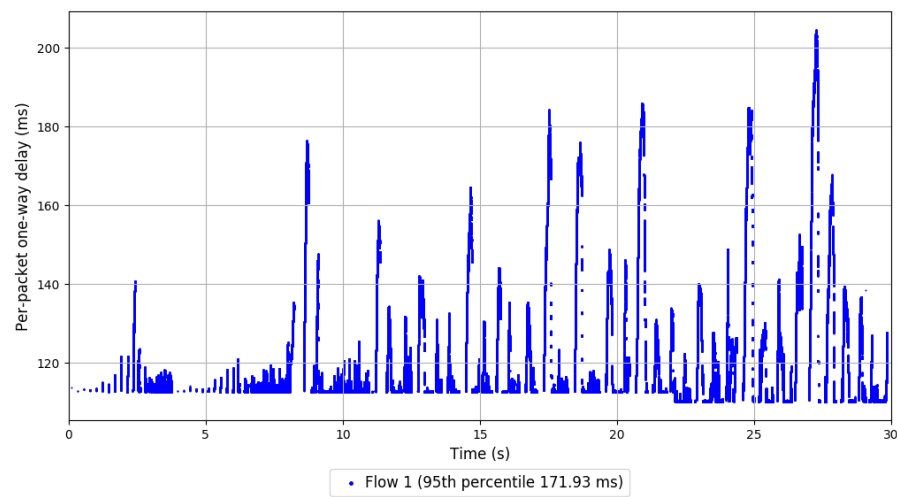
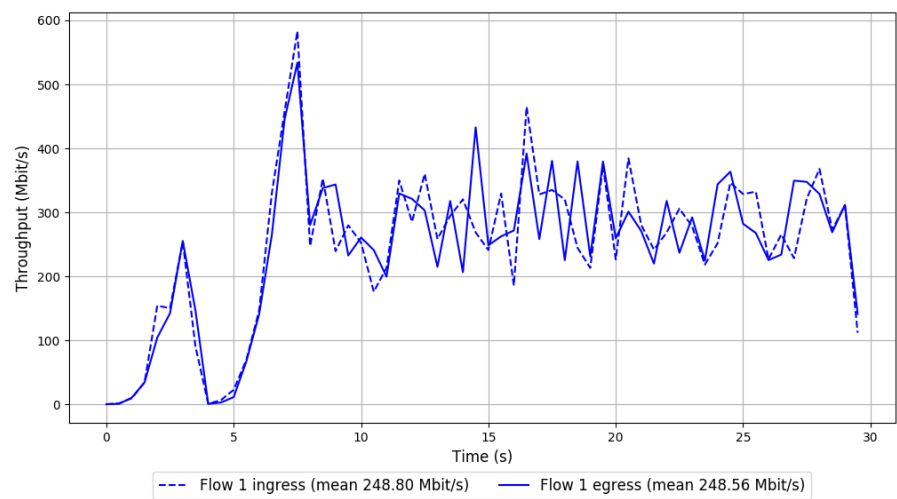
-- Flow 1:

Average throughput: 248.56 Mbit/s

95th percentile per-packet one-way delay: 171.934 ms

Loss rate: 0.10%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-21 00:54:49

End at: 2017-11-21 00:55:19

# Below is generated by plot.py at 2017-11-21 02:29:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 137.41 Mbit/s

95th percentile per-packet one-way delay: 123.805 ms

Loss rate: 0.06%

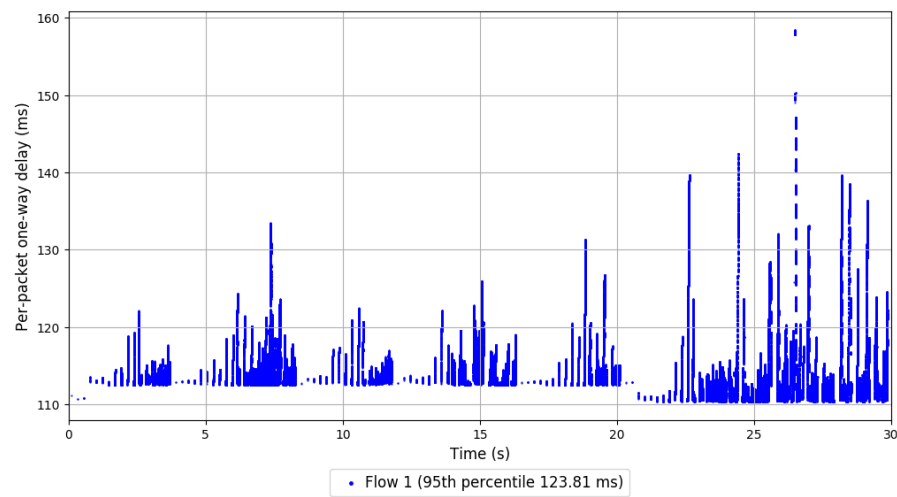
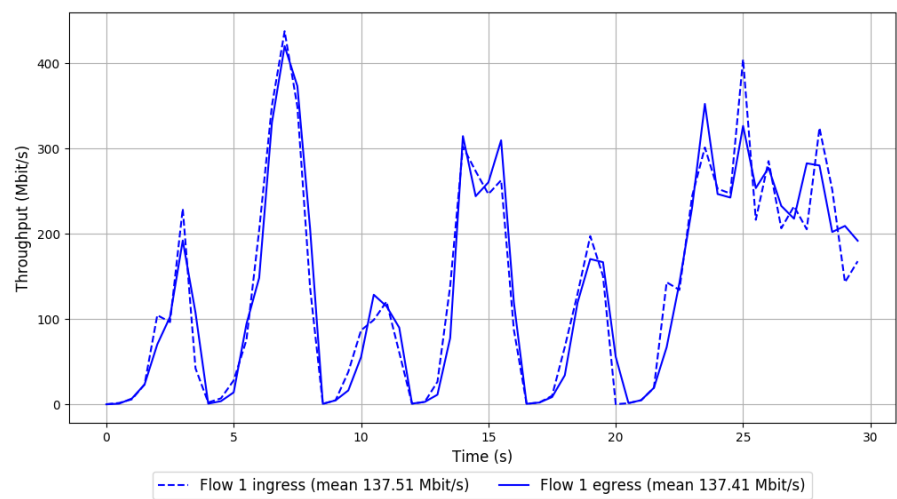
-- Flow 1:

Average throughput: 137.41 Mbit/s

95th percentile per-packet one-way delay: 123.805 ms

Loss rate: 0.06%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-21 01:06:03

End at: 2017-11-21 01:06:33

# Below is generated by plot.py at 2017-11-21 02:29:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 102.84 Mbit/s

95th percentile per-packet one-way delay: 174.979 ms

Loss rate: 1.30%

-- Flow 1:

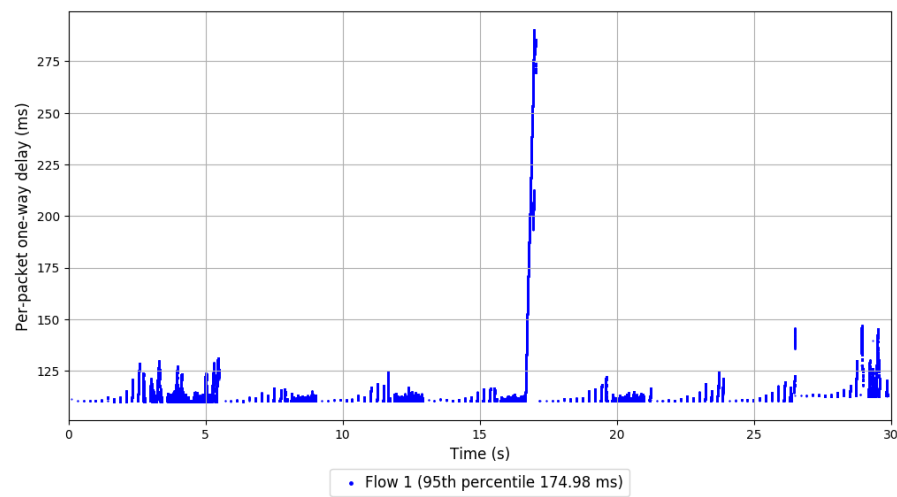
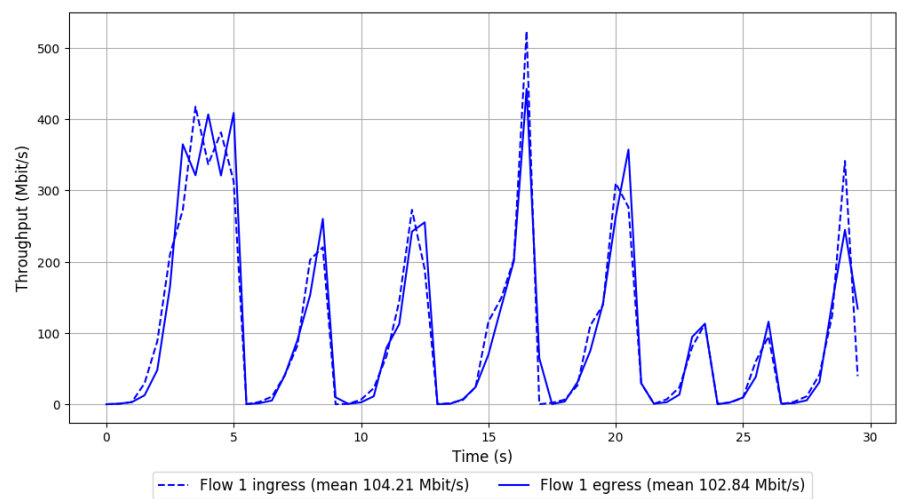
Average throughput: 102.84 Mbit/s

95th percentile per-packet one-way delay: 174.979 ms

Loss rate: 1.30%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-21 01:16:57

End at: 2017-11-21 01:17:27

# Below is generated by plot.py at 2017-11-21 02:29:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 169.84 Mbit/s

95th percentile per-packet one-way delay: 119.036 ms

Loss rate: 0.01%

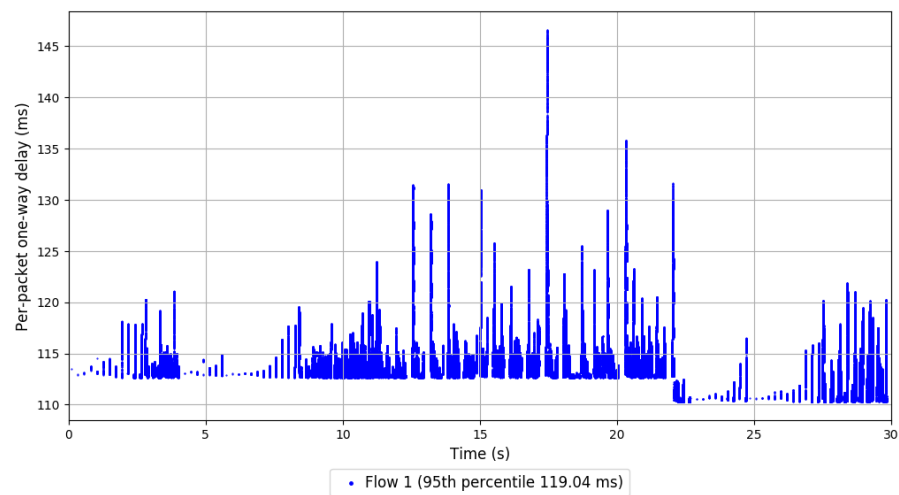
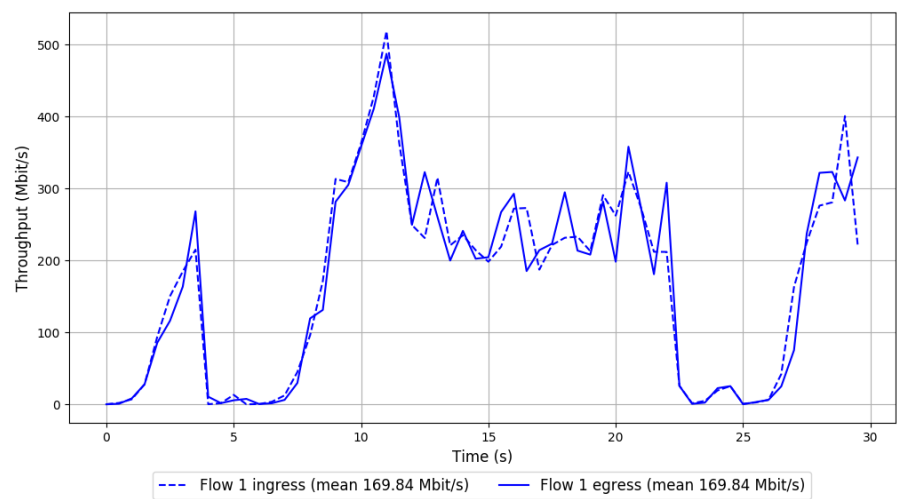
-- Flow 1:

Average throughput: 169.84 Mbit/s

95th percentile per-packet one-way delay: 119.036 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-20 23:35:34

End at: 2017-11-20 23:36:04

# Below is generated by plot.py at 2017-11-21 02:29:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.00 Mbit/s

95th percentile per-packet one-way delay: 112.477 ms

Loss rate: 0.00%

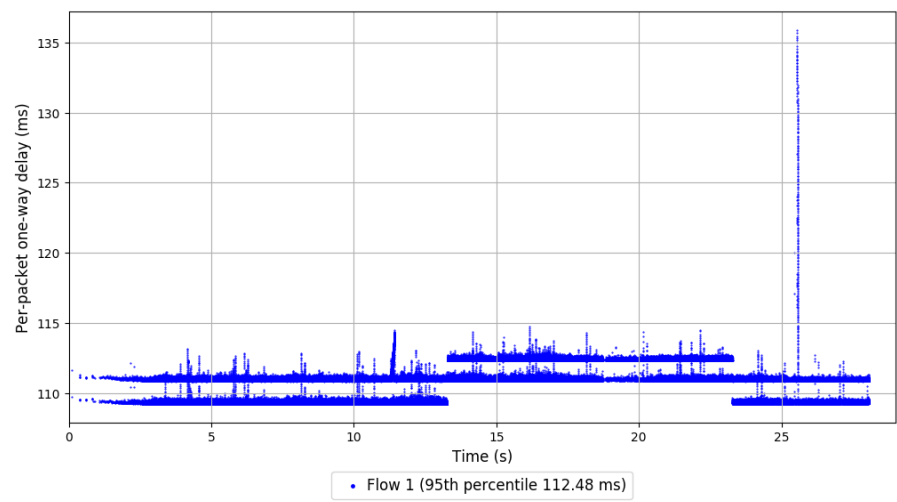
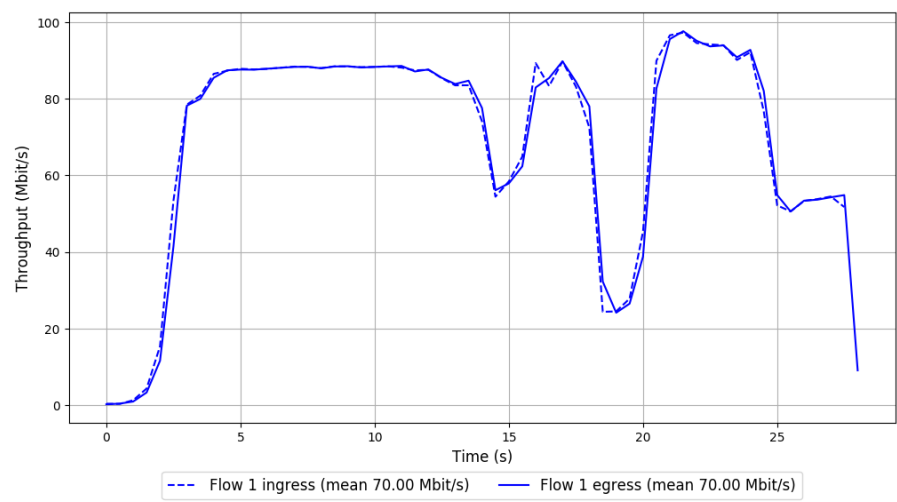
-- Flow 1:

Average throughput: 70.00 Mbit/s

95th percentile per-packet one-way delay: 112.477 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-20 23:46:56

End at: 2017-11-20 23:47:26

# Below is generated by plot.py at 2017-11-21 02:29:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.50 Mbit/s

95th percentile per-packet one-way delay: 112.382 ms

Loss rate: 0.01%

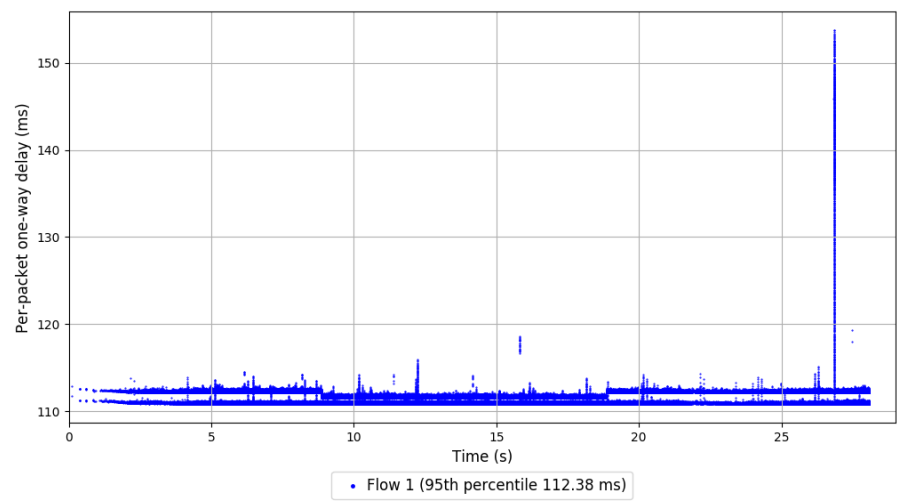
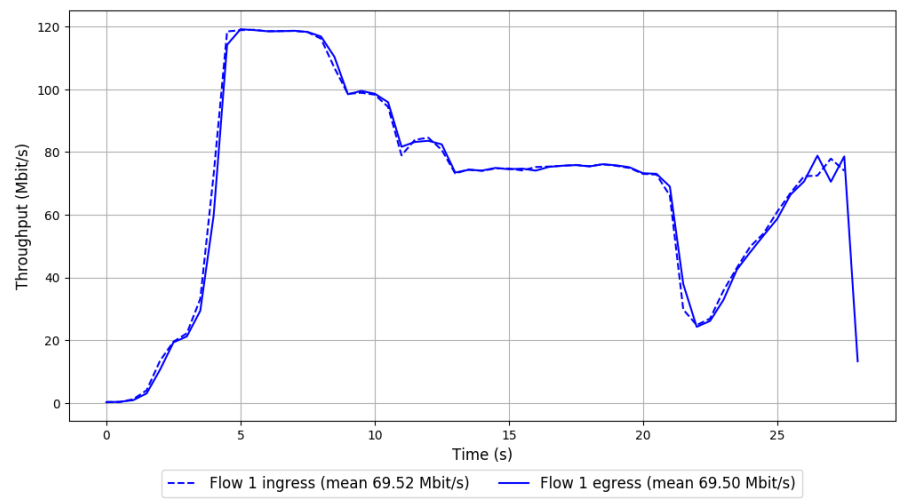
-- Flow 1:

Average throughput: 69.50 Mbit/s

95th percentile per-packet one-way delay: 112.382 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-20 23:58:09

End at: 2017-11-20 23:58:39

# Below is generated by plot.py at 2017-11-21 02:29:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.08 Mbit/s

95th percentile per-packet one-way delay: 112.646 ms

Loss rate: 0.00%

-- Flow 1:

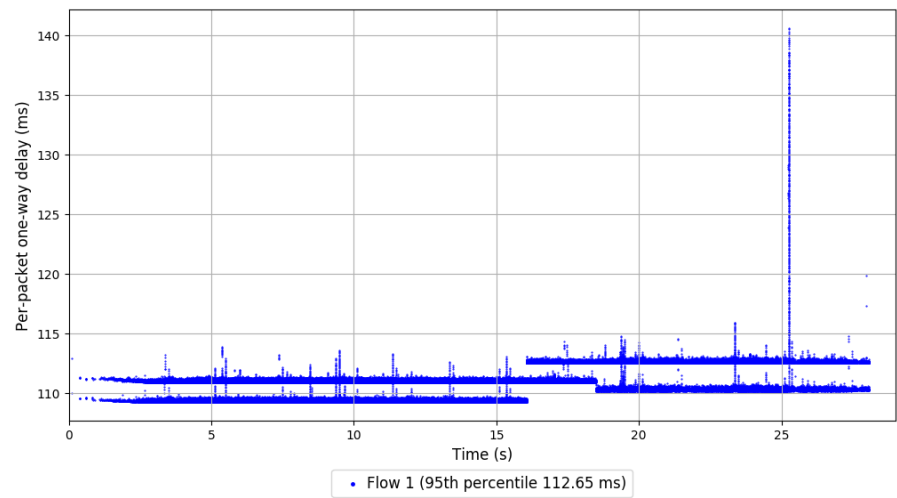
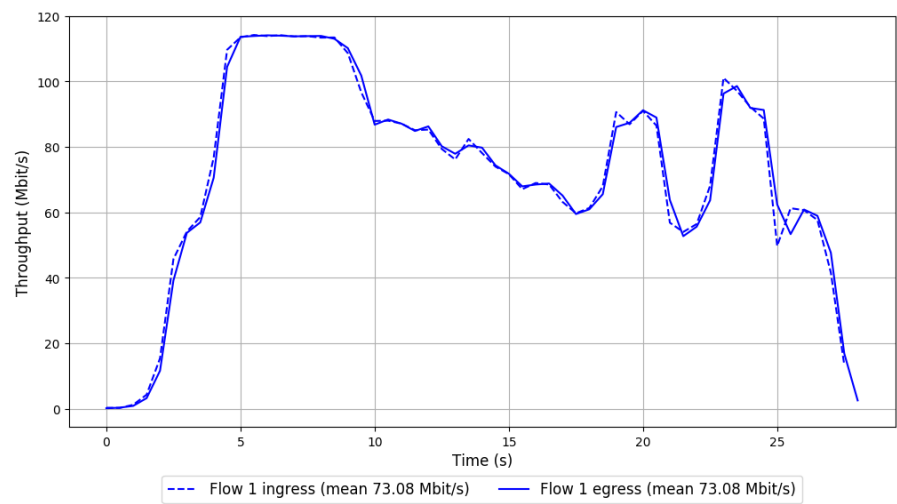
Average throughput: 73.08 Mbit/s

95th percentile per-packet one-way delay: 112.646 ms

Loss rate: 0.00%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-21 00:09:26

End at: 2017-11-21 00:09:56

# Below is generated by plot.py at 2017-11-21 02:29:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 64.00 Mbit/s

95th percentile per-packet one-way delay: 112.693 ms

Loss rate: 0.00%

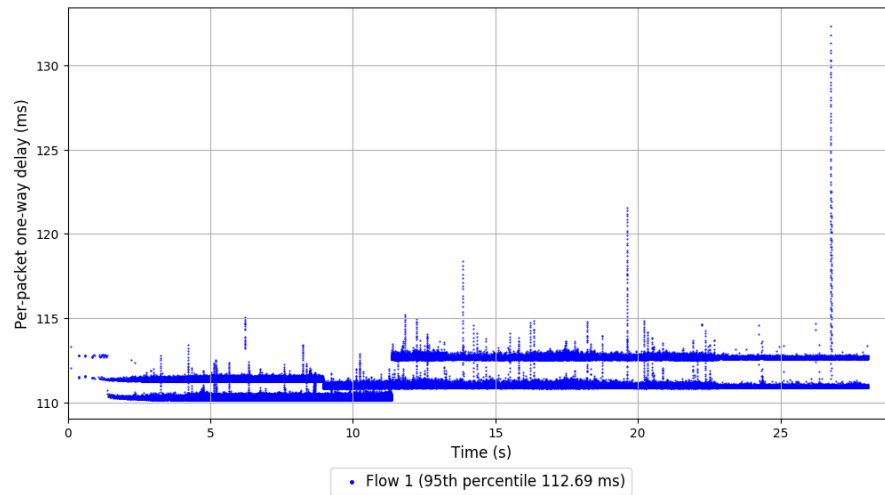
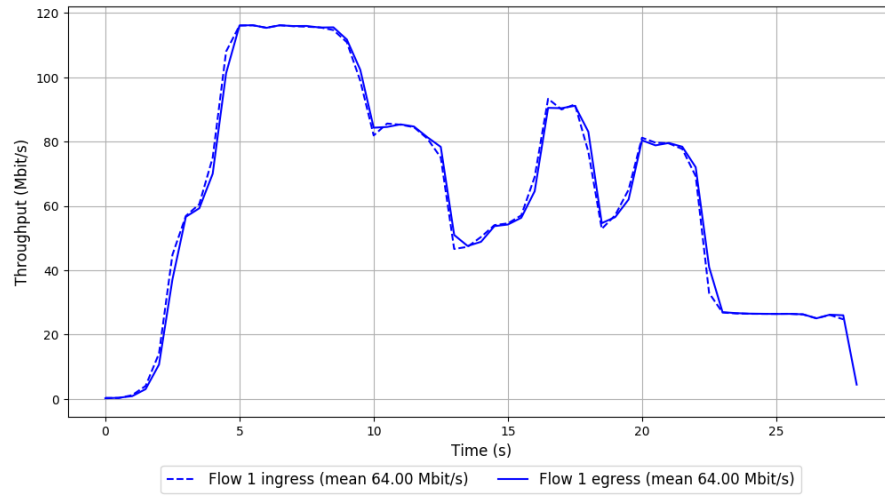
-- Flow 1:

Average throughput: 64.00 Mbit/s

95th percentile per-packet one-way delay: 112.693 ms

Loss rate: 0.00%

#### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-21 00:20:36

End at: 2017-11-21 00:21:06

# Below is generated by plot.py at 2017-11-21 02:30:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 112.678 ms

Loss rate: 0.00%

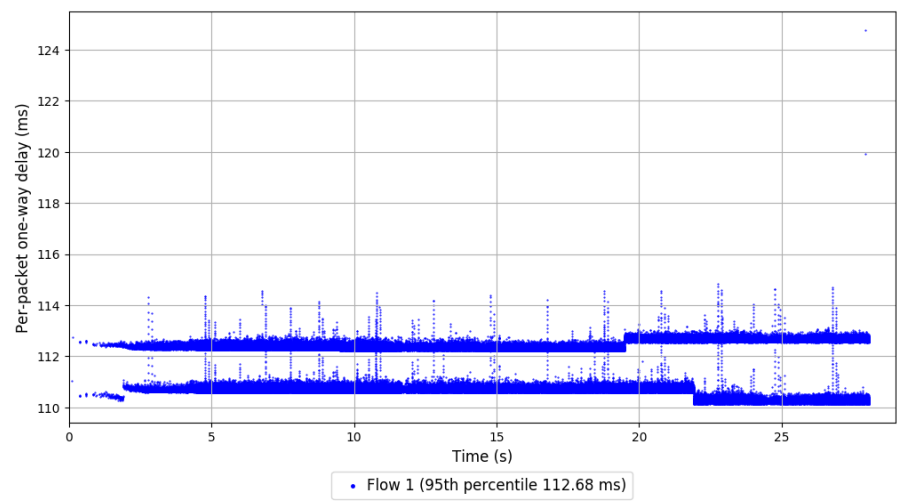
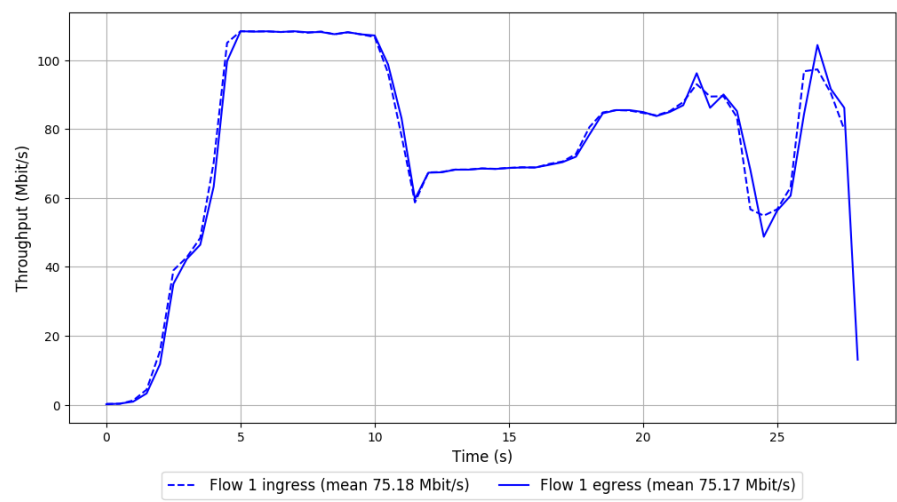
-- Flow 1:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 112.678 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-21 00:31:48

End at: 2017-11-21 00:32:18

# Below is generated by plot.py at 2017-11-21 02:30:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.86 Mbit/s

95th percentile per-packet one-way delay: 112.627 ms

Loss rate: 0.00%

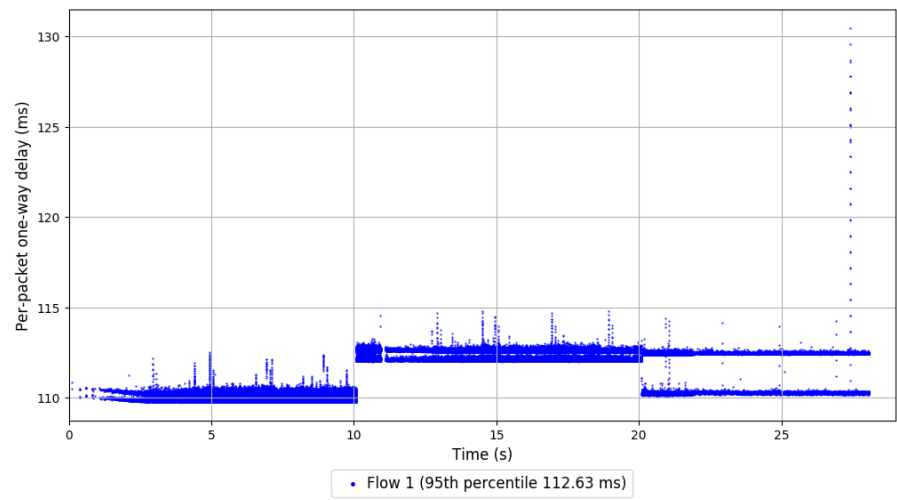
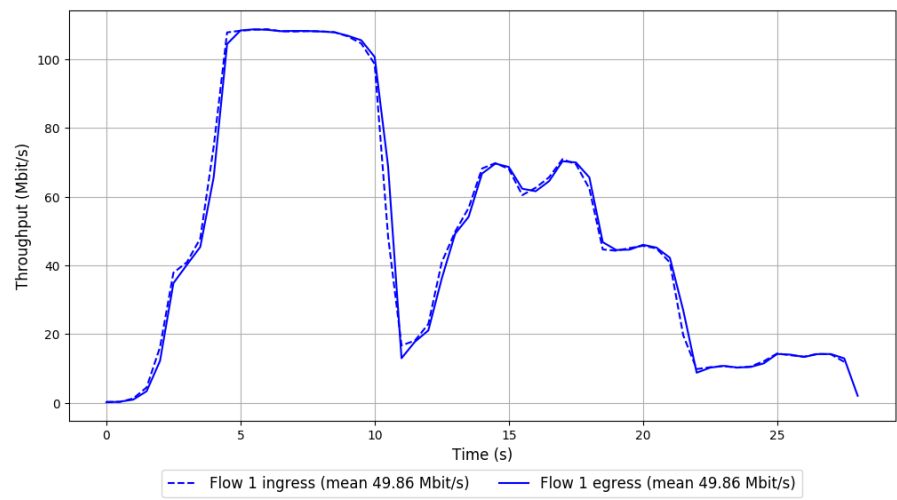
-- Flow 1:

Average throughput: 49.86 Mbit/s

95th percentile per-packet one-way delay: 112.627 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-21 00:42:49

End at: 2017-11-21 00:43:19

# Below is generated by plot.py at 2017-11-21 02:30:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.55 Mbit/s

95th percentile per-packet one-way delay: 112.691 ms

Loss rate: 0.00%

-- Flow 1:

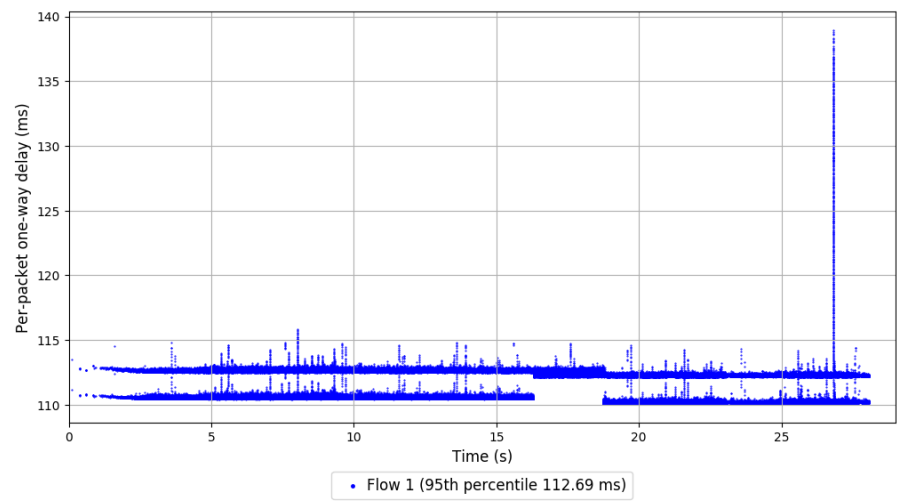
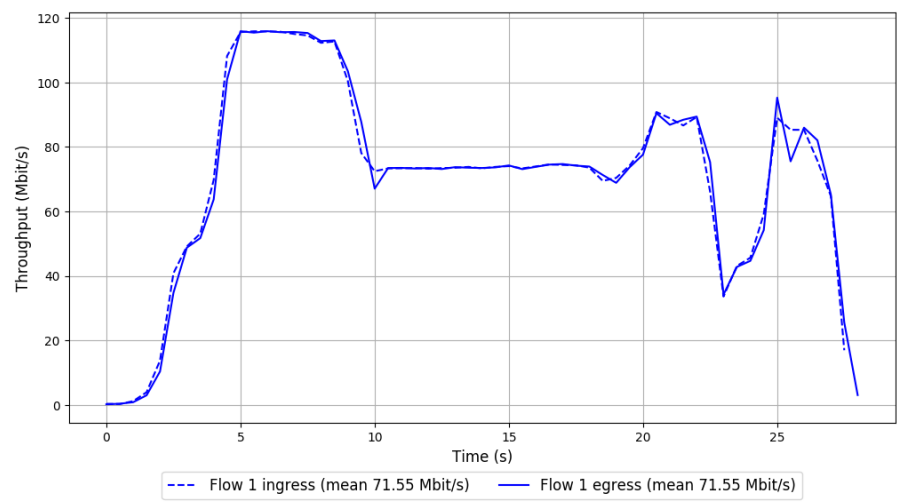
Average throughput: 71.55 Mbit/s

95th percentile per-packet one-way delay: 112.691 ms

Loss rate: 0.00%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-21 00:54:00

End at: 2017-11-21 00:54:30

# Below is generated by plot.py at 2017-11-21 02:31:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.22 Mbit/s

95th percentile per-packet one-way delay: 112.698 ms

Loss rate: 0.00%

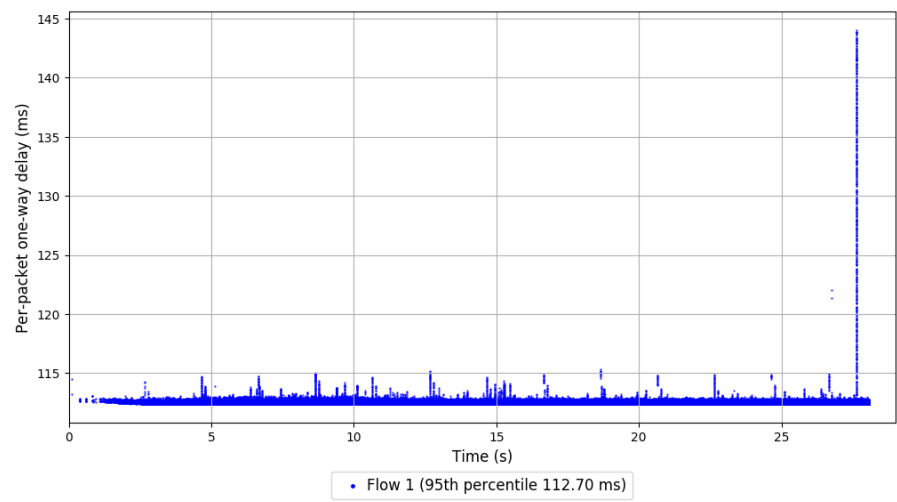
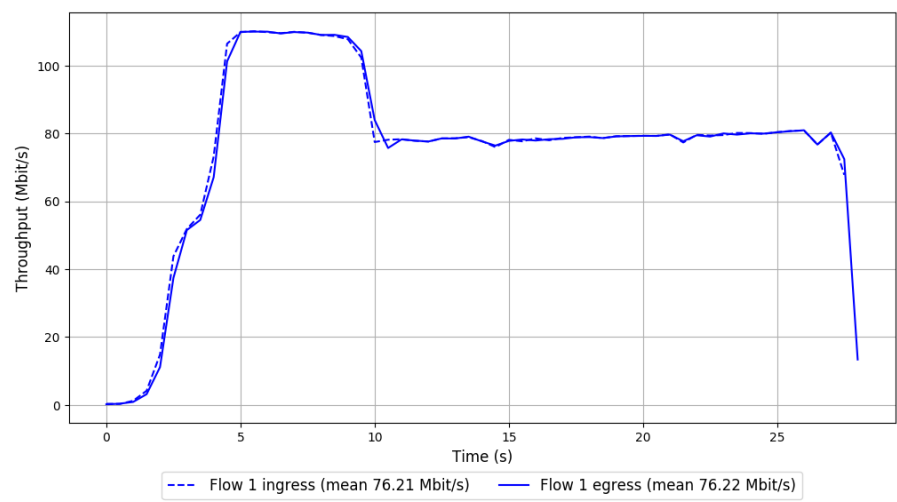
-- Flow 1:

Average throughput: 76.22 Mbit/s

95th percentile per-packet one-way delay: 112.698 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-21 01:05:15

End at: 2017-11-21 01:05:45

# Below is generated by plot.py at 2017-11-21 02:31:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.00 Mbit/s

95th percentile per-packet one-way delay: 112.683 ms

Loss rate: 0.00%

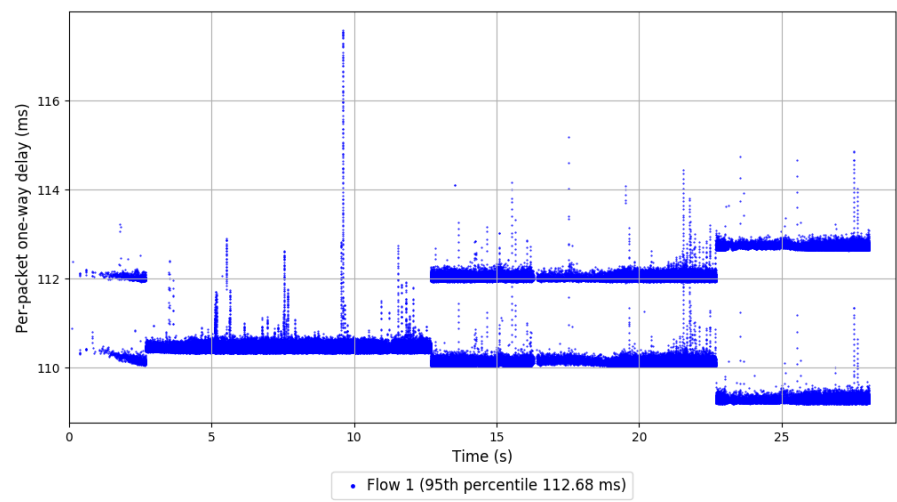
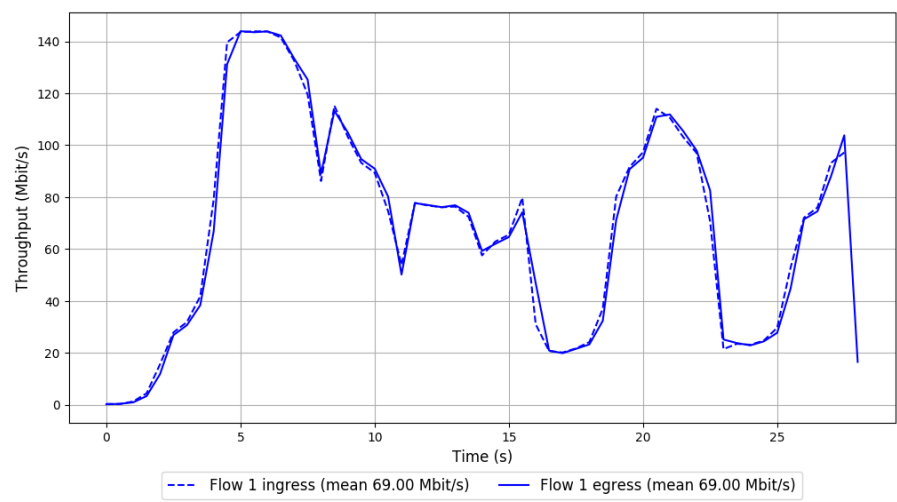
-- Flow 1:

Average throughput: 69.00 Mbit/s

95th percentile per-packet one-way delay: 112.683 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-21 01:16:12

End at: 2017-11-21 01:16:42

# Below is generated by plot.py at 2017-11-21 02:31:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.91 Mbit/s

95th percentile per-packet one-way delay: 112.789 ms

Loss rate: 0.00%

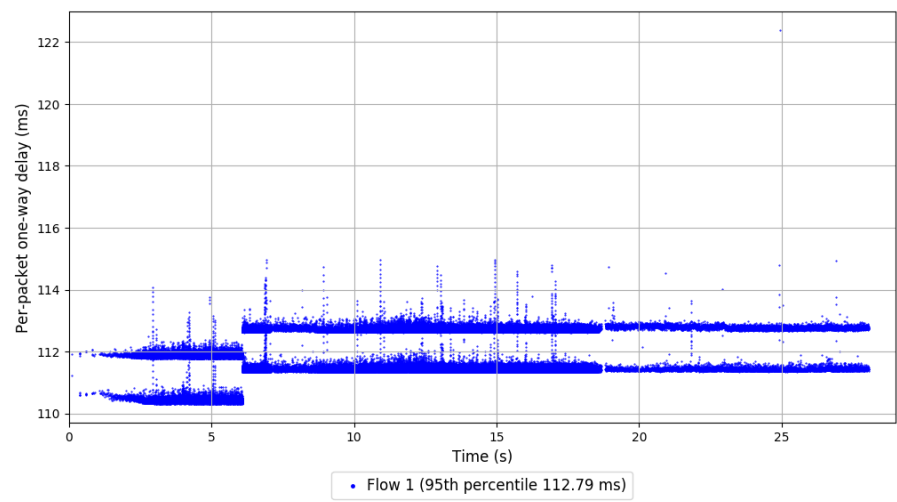
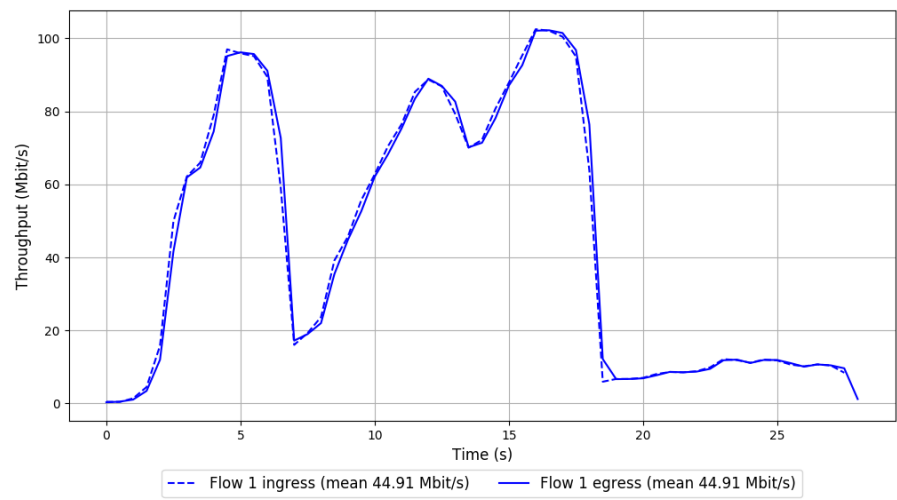
-- Flow 1:

Average throughput: 44.91 Mbit/s

95th percentile per-packet one-way delay: 112.789 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



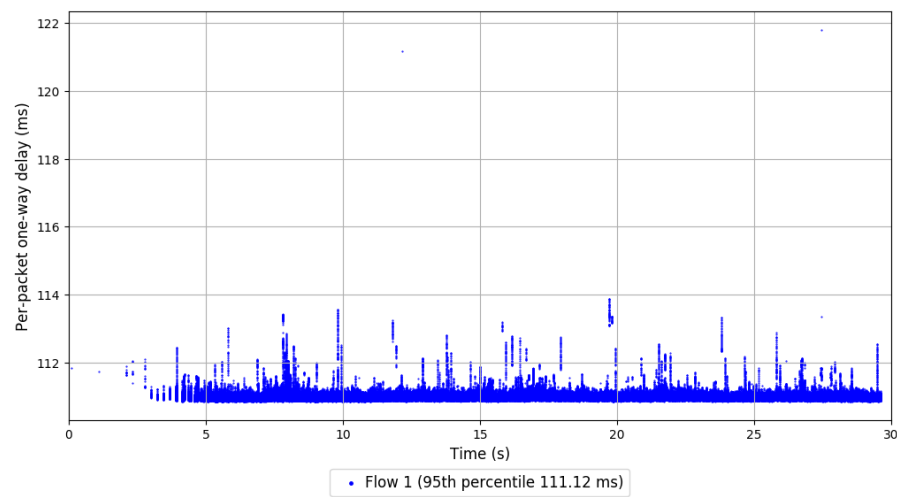
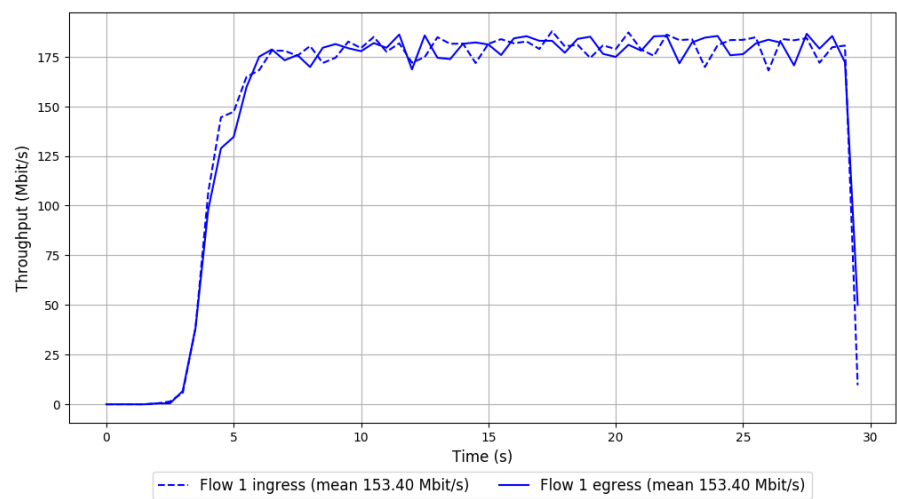
```
Run 1: Statistics of Indigo

Start at: 2017-11-20 23:38:08
End at: 2017-11-20 23:38:38

# Below is generated by plot.py at 2017-11-21 02:32:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.40 Mbit/s
95th percentile per-packet one-way delay: 111.116 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.40 Mbit/s
95th percentile per-packet one-way delay: 111.116 ms
Loss rate: 0.00%
```



Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-20 23:49:20

End at: 2017-11-20 23:49:50

# Below is generated by plot.py at 2017-11-21 02:32:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 170.59 Mbit/s

95th percentile per-packet one-way delay: 111.106 ms

Loss rate: 0.01%

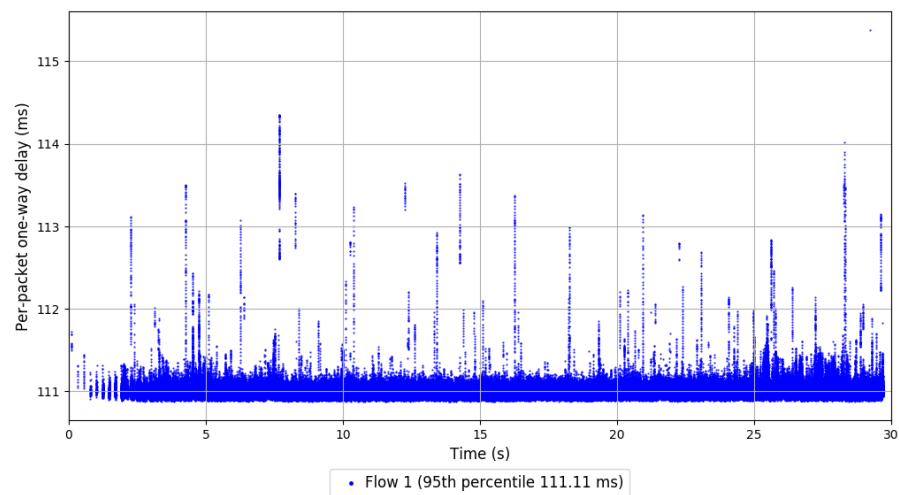
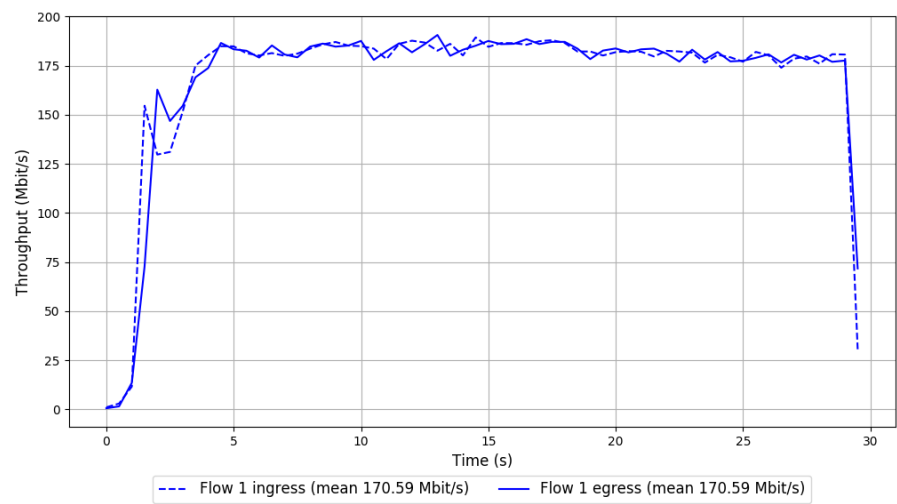
-- Flow 1:

Average throughput: 170.59 Mbit/s

95th percentile per-packet one-way delay: 111.106 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-21 00:00:36

End at: 2017-11-21 00:01:06

# Below is generated by plot.py at 2017-11-21 02:33:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 170.46 Mbit/s

95th percentile per-packet one-way delay: 112.754 ms

Loss rate: 0.01%

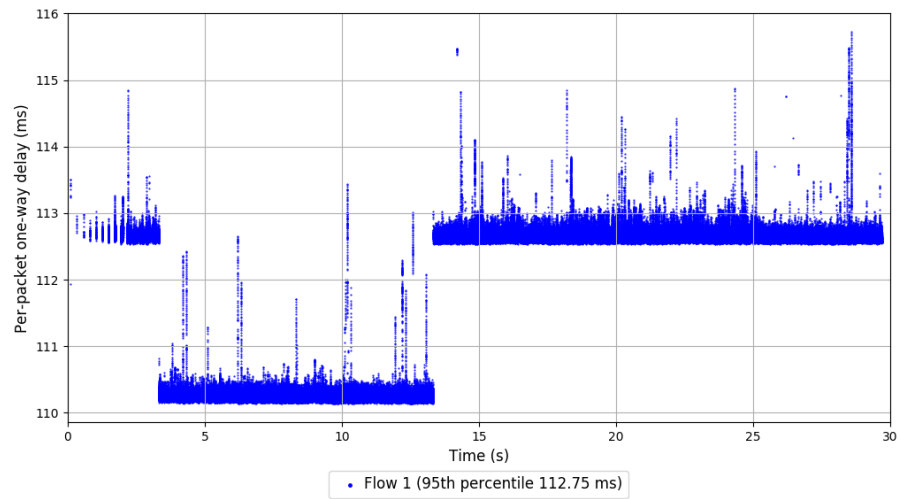
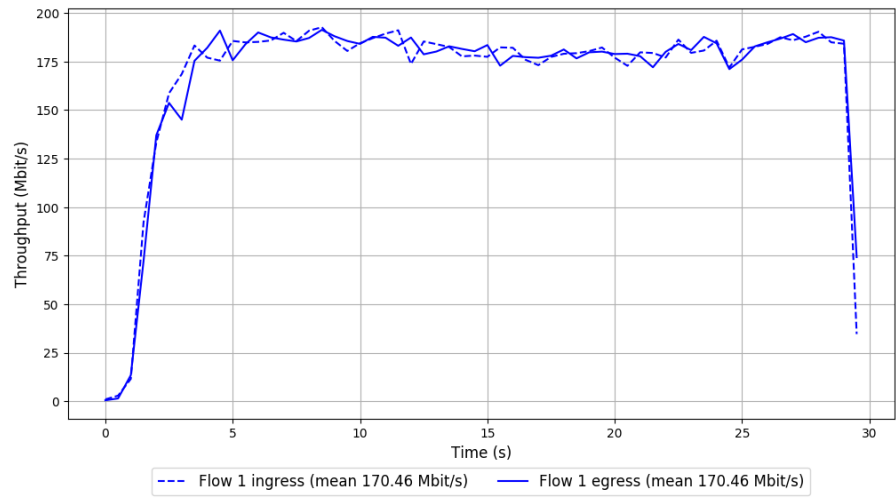
-- Flow 1:

Average throughput: 170.46 Mbit/s

95th percentile per-packet one-way delay: 112.754 ms

Loss rate: 0.01%

### Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-21 00:11:56

End at: 2017-11-21 00:12:26

# Below is generated by plot.py at 2017-11-21 02:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 166.78 Mbit/s

95th percentile per-packet one-way delay: 112.745 ms

Loss rate: 0.01%

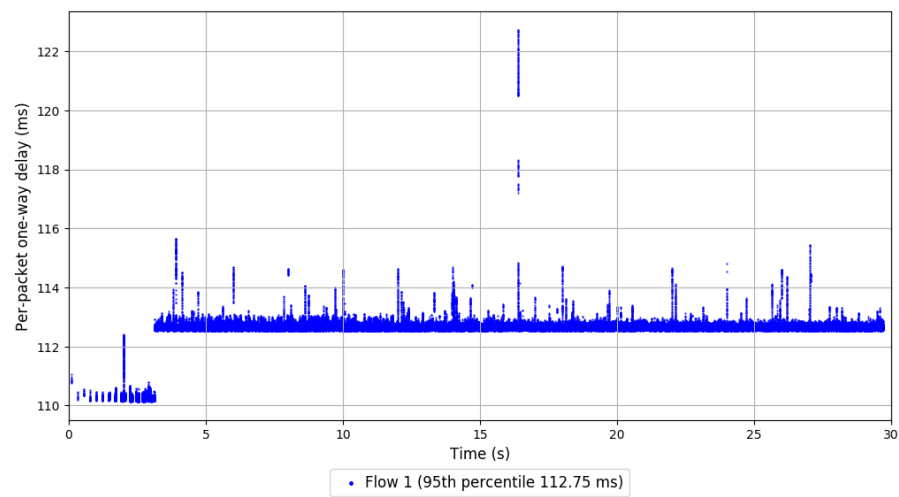
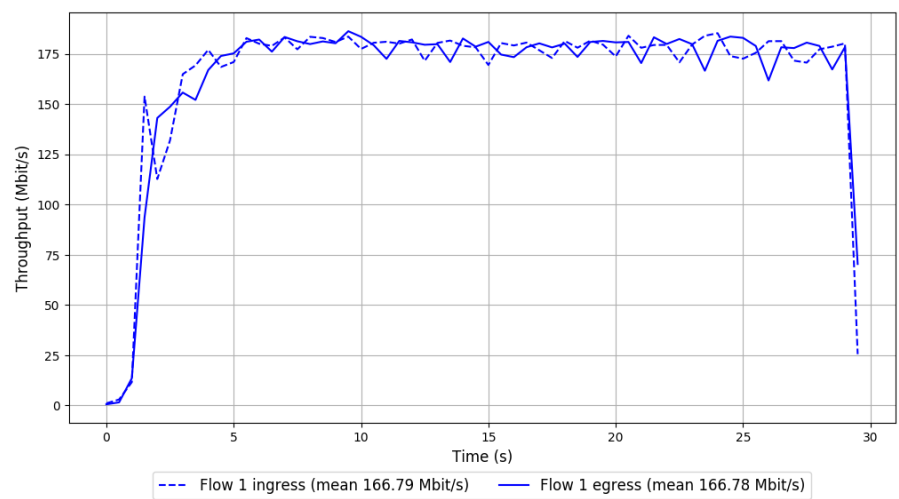
-- Flow 1:

Average throughput: 166.78 Mbit/s

95th percentile per-packet one-way delay: 112.745 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-21 00:22:59

End at: 2017-11-21 00:23:29

# Below is generated by plot.py at 2017-11-21 02:33:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 171.86 Mbit/s

95th percentile per-packet one-way delay: 112.693 ms

Loss rate: 0.00%

-- Flow 1:

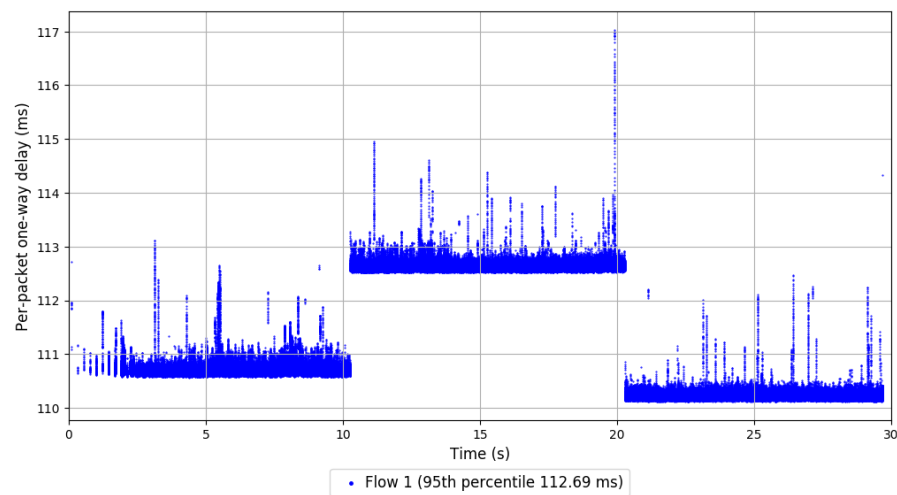
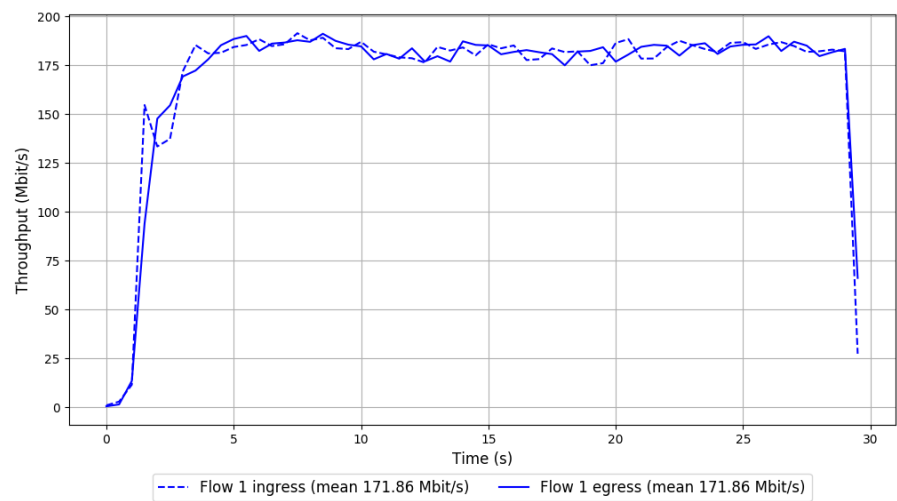
Average throughput: 171.86 Mbit/s

95th percentile per-packet one-way delay: 112.693 ms

Loss rate: 0.00%



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-21 00:34:18

End at: 2017-11-21 00:34:48

# Below is generated by plot.py at 2017-11-21 02:33:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 168.01 Mbit/s

95th percentile per-packet one-way delay: 112.670 ms

Loss rate: 0.00%

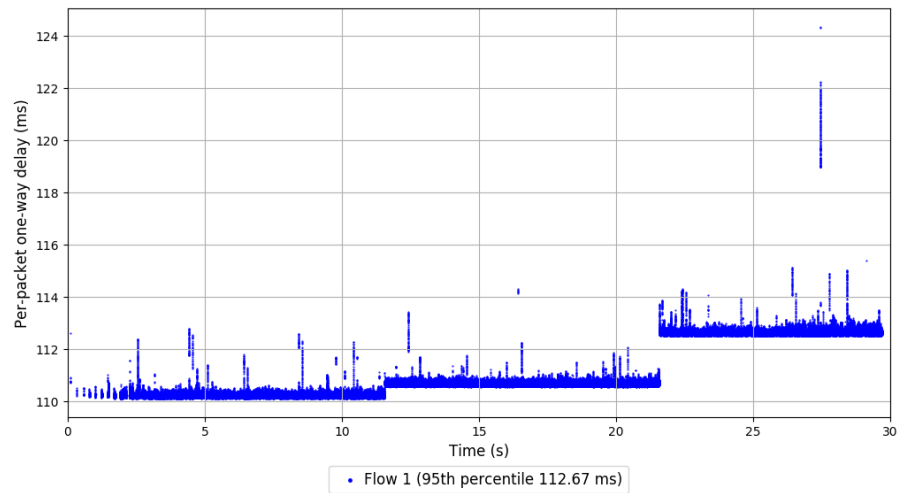
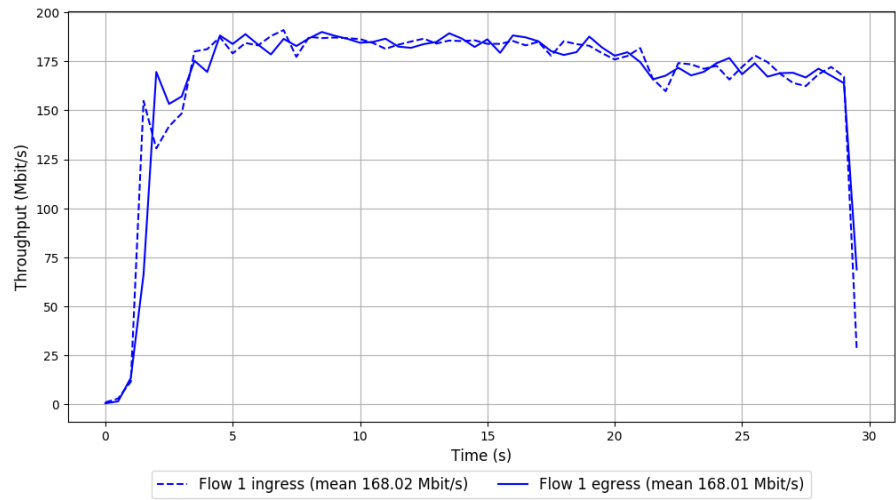
-- Flow 1:

Average throughput: 168.01 Mbit/s

95th percentile per-packet one-way delay: 112.670 ms

Loss rate: 0.00%

## Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-21 00:45:24

End at: 2017-11-21 00:45:54

# Below is generated by plot.py at 2017-11-21 02:34:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 171.44 Mbit/s

95th percentile per-packet one-way delay: 112.646 ms

Loss rate: 0.00%

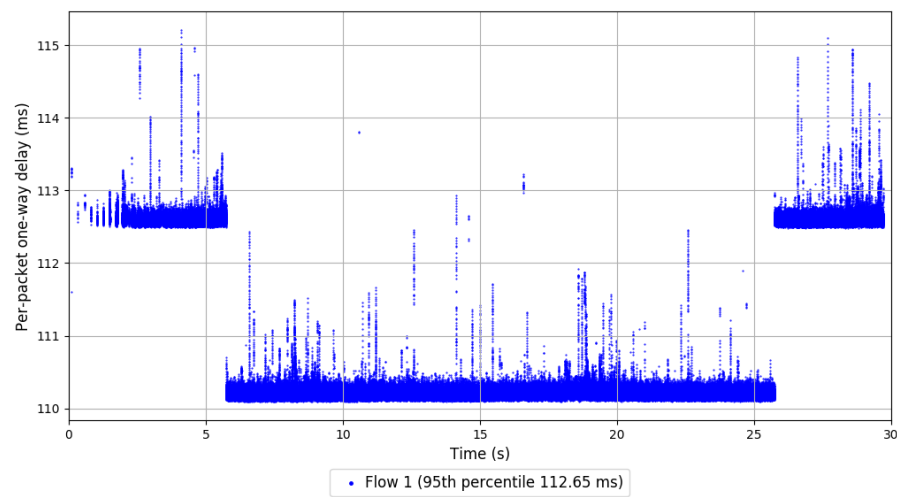
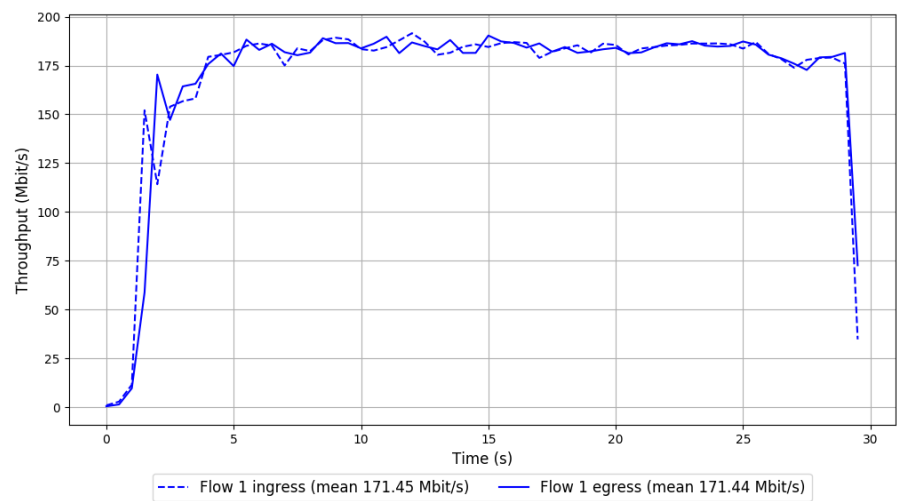
-- Flow 1:

Average throughput: 171.44 Mbit/s

95th percentile per-packet one-way delay: 112.646 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-21 00:56:26

End at: 2017-11-21 00:56:57

# Below is generated by plot.py at 2017-11-21 02:34:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 170.67 Mbit/s

95th percentile per-packet one-way delay: 112.639 ms

Loss rate: 0.00%

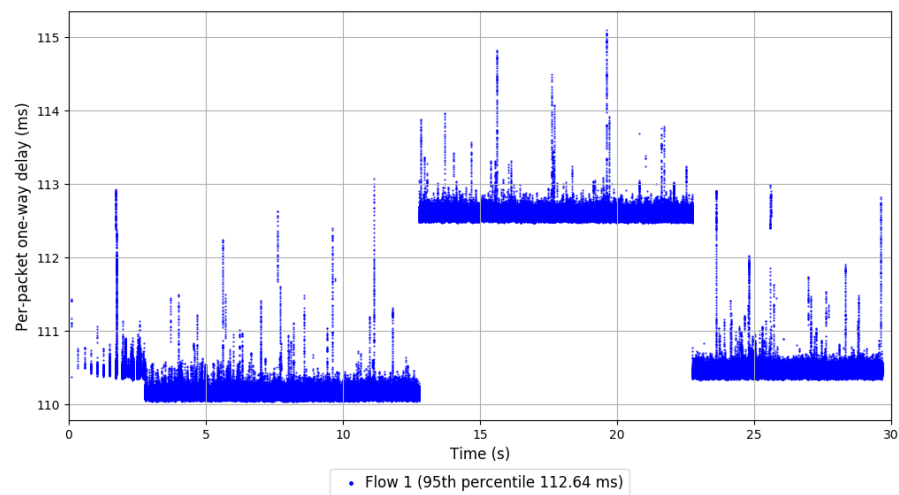
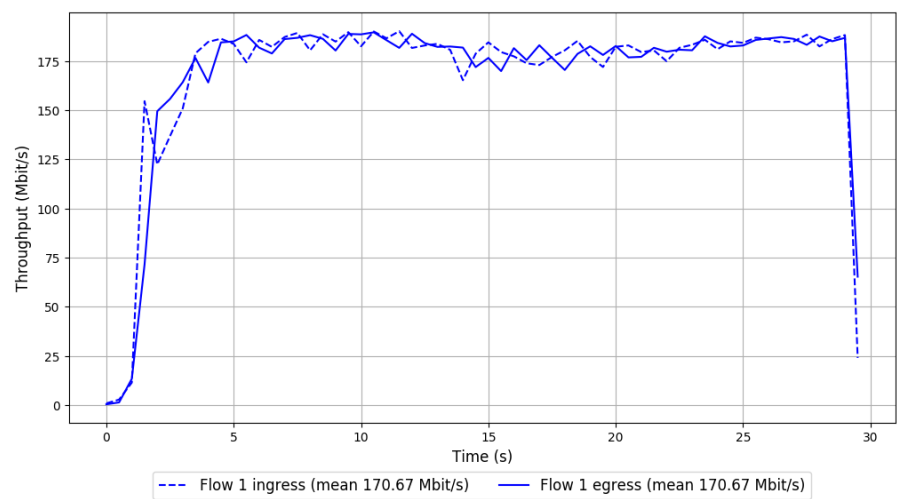
-- Flow 1:

Average throughput: 170.67 Mbit/s

95th percentile per-packet one-way delay: 112.639 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-21 01:07:38

End at: 2017-11-21 01:08:08

# Below is generated by plot.py at 2017-11-21 02:35:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 172.43 Mbit/s

95th percentile per-packet one-way delay: 110.503 ms

Loss rate: 0.01%

-- Flow 1:

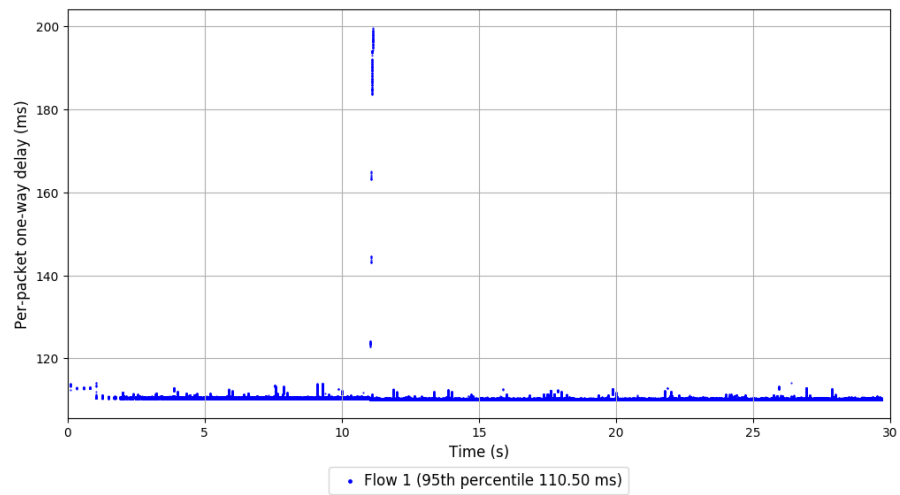
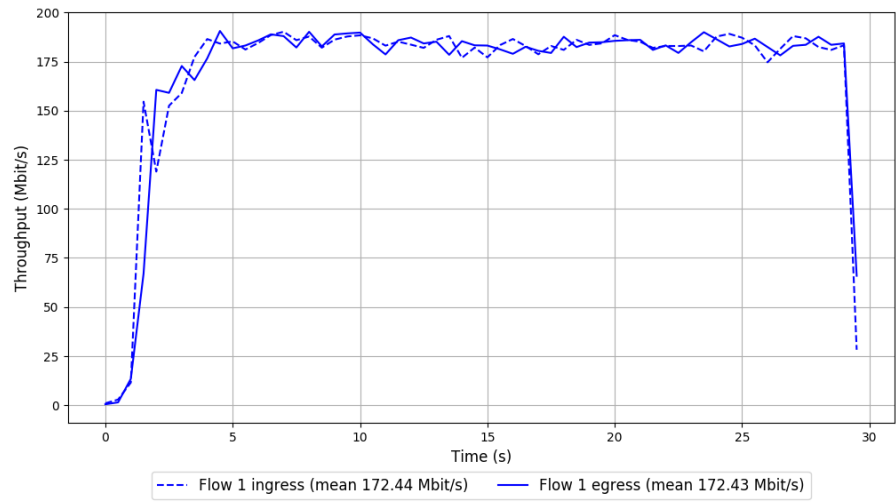
Average throughput: 172.43 Mbit/s

95th percentile per-packet one-way delay: 110.503 ms

Loss rate: 0.01%



### Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-21 01:18:37

End at: 2017-11-21 01:19:07

# Below is generated by plot.py at 2017-11-21 02:35:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 171.78 Mbit/s

95th percentile per-packet one-way delay: 110.517 ms

Loss rate: 0.01%

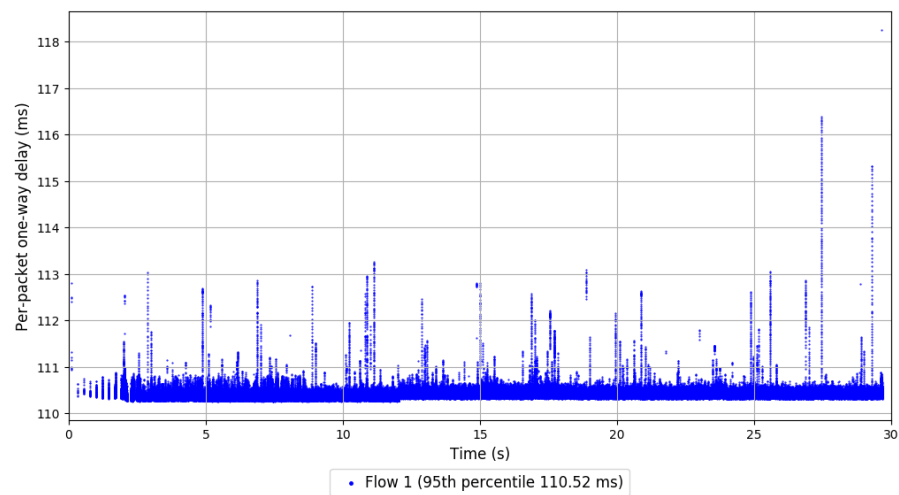
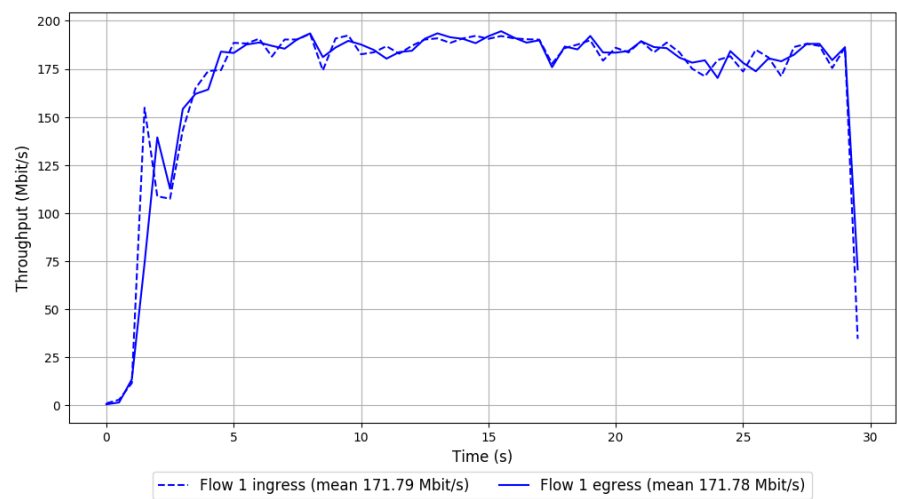
-- Flow 1:

Average throughput: 171.78 Mbit/s

95th percentile per-packet one-way delay: 110.517 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

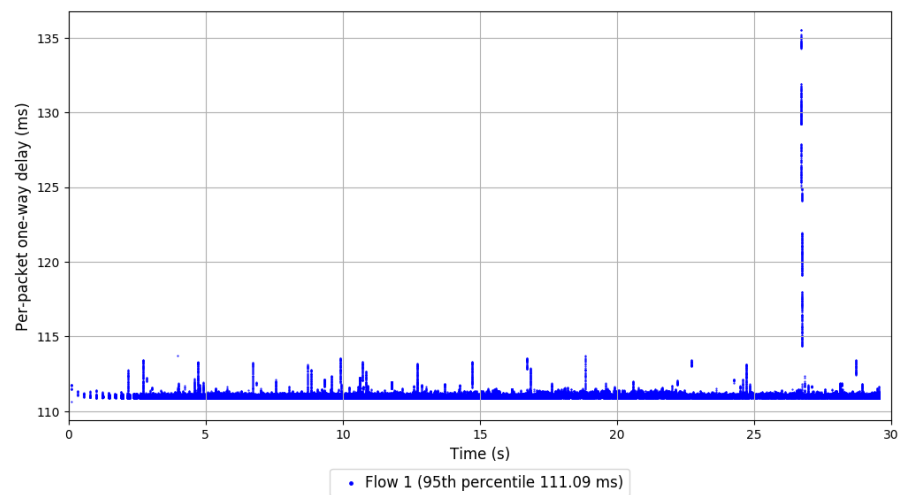
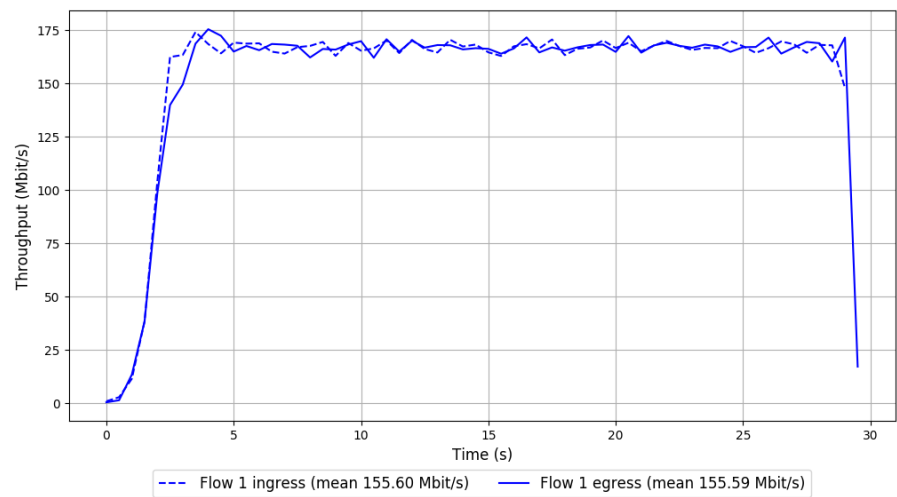


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-20 23:39:01
End at: 2017-11-20 23:39:31

# Below is generated by plot.py at 2017-11-21 02:35:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.59 Mbit/s
95th percentile per-packet one-way delay: 111.092 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 155.59 Mbit/s
95th percentile per-packet one-way delay: 111.092 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

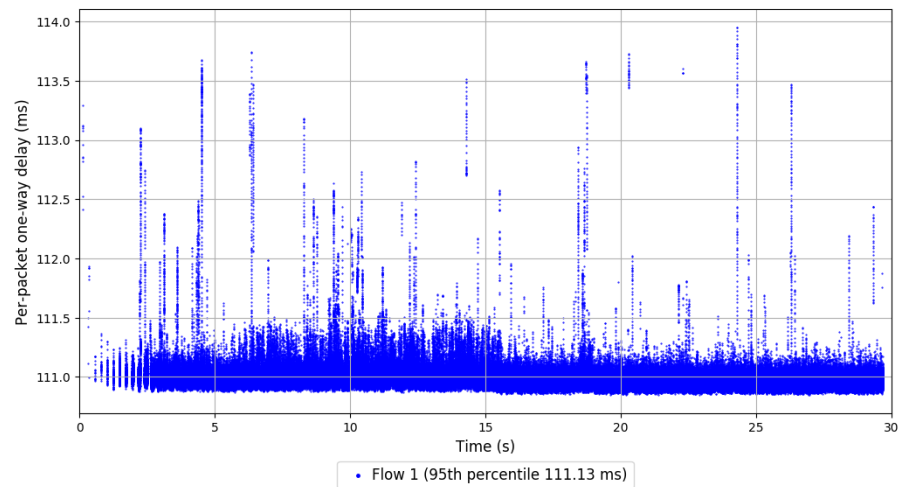
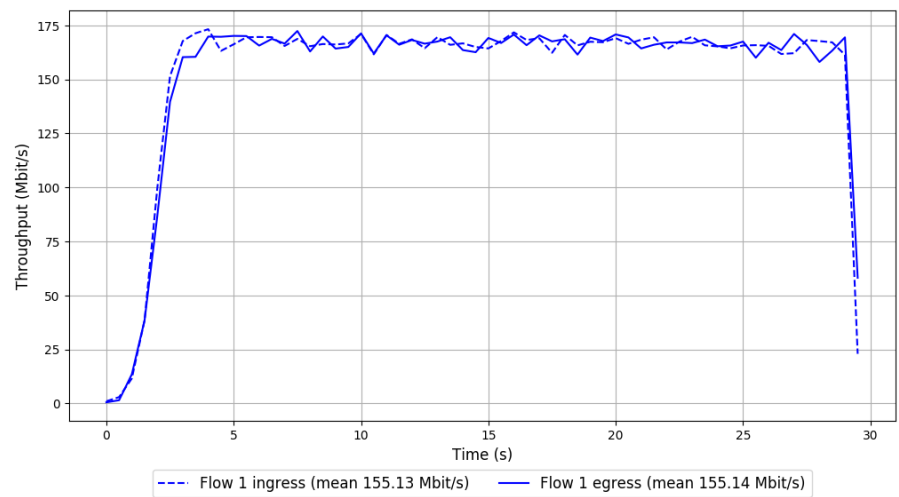


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-20 23:50:14
End at: 2017-11-20 23:50:44

# Below is generated by plot.py at 2017-11-21 02:36:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.14 Mbit/s
95th percentile per-packet one-way delay: 111.127 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 155.14 Mbit/s
95th percentile per-packet one-way delay: 111.127 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link



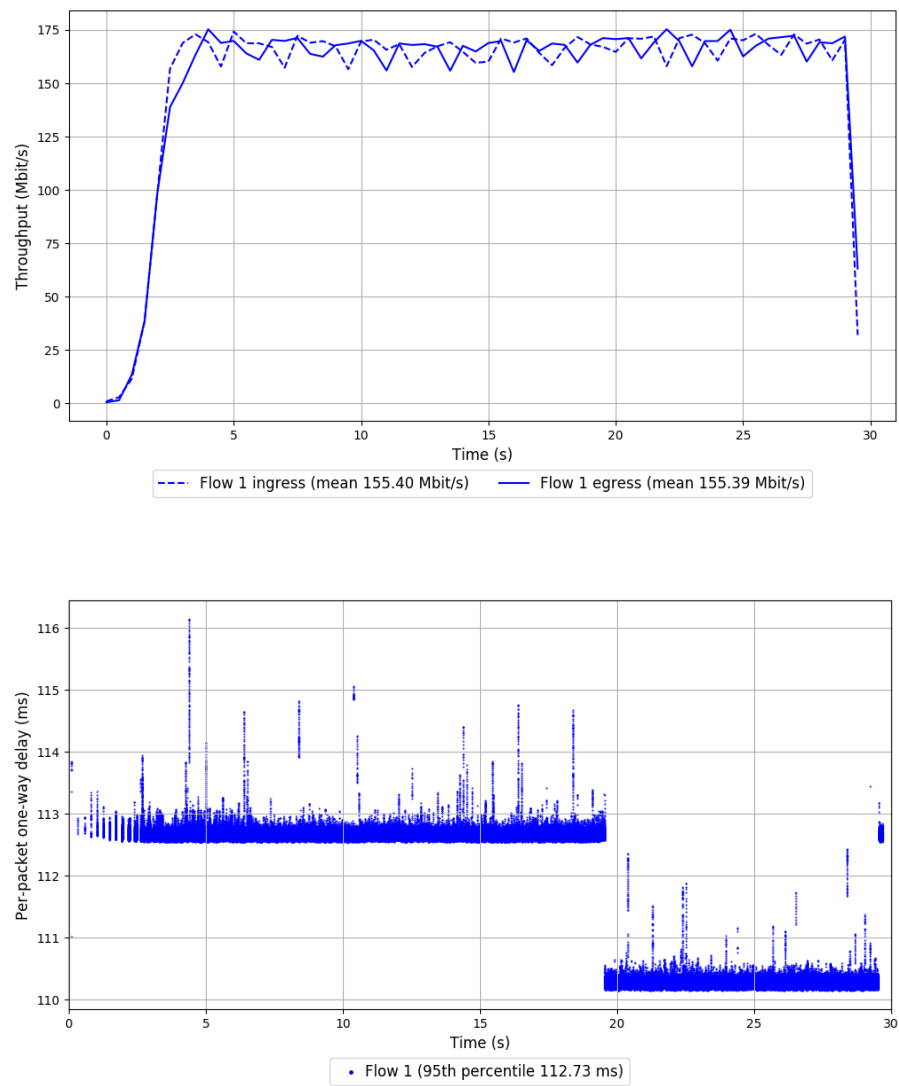
```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-21 00:01:30
End at: 2017-11-21 00:02:00

# Below is generated by plot.py at 2017-11-21 02:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.39 Mbit/s
95th percentile per-packet one-way delay: 112.731 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 155.39 Mbit/s
95th percentile per-packet one-way delay: 112.731 ms
Loss rate: 0.02%
```



Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-21 00:12:50

End at: 2017-11-21 00:13:20

# Below is generated by plot.py at 2017-11-21 02:36:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 155.35 Mbit/s

95th percentile per-packet one-way delay: 112.741 ms

Loss rate: 0.00%

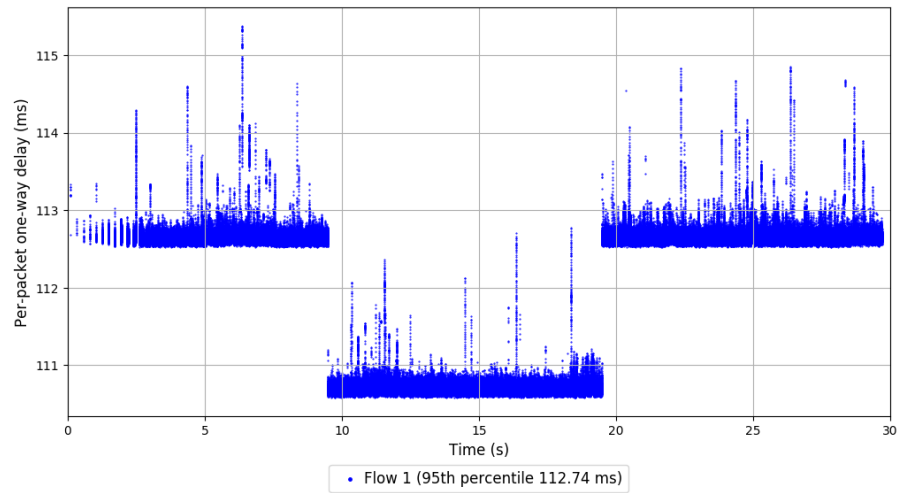
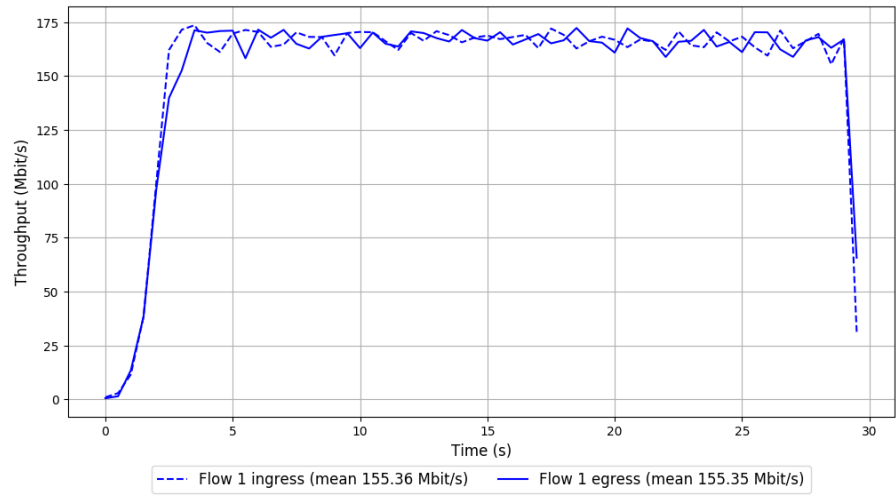
-- Flow 1:

Average throughput: 155.35 Mbit/s

95th percentile per-packet one-way delay: 112.741 ms

Loss rate: 0.00%

#### Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-21 00:23:53

End at: 2017-11-21 00:24:24

# Below is generated by plot.py at 2017-11-21 02:36:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 152.90 Mbit/s

95th percentile per-packet one-way delay: 112.704 ms

Loss rate: 0.00%

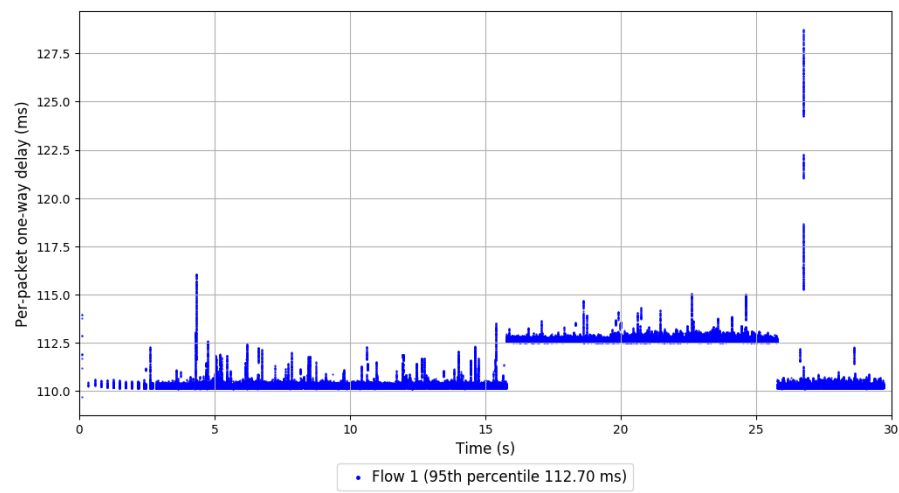
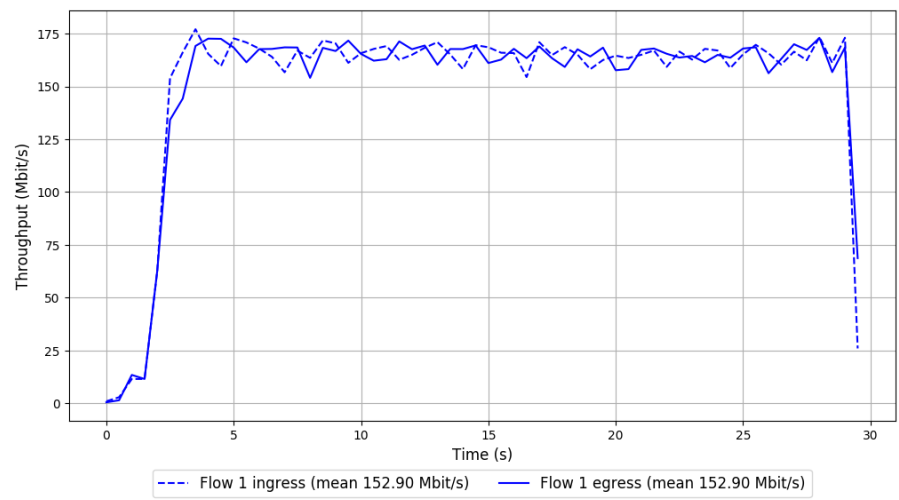
-- Flow 1:

Average throughput: 152.90 Mbit/s

95th percentile per-packet one-way delay: 112.704 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-21 00:35:11

End at: 2017-11-21 00:35:41

# Below is generated by plot.py at 2017-11-21 02:36:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 154.35 Mbit/s

95th percentile per-packet one-way delay: 110.775 ms

Loss rate: 0.00%

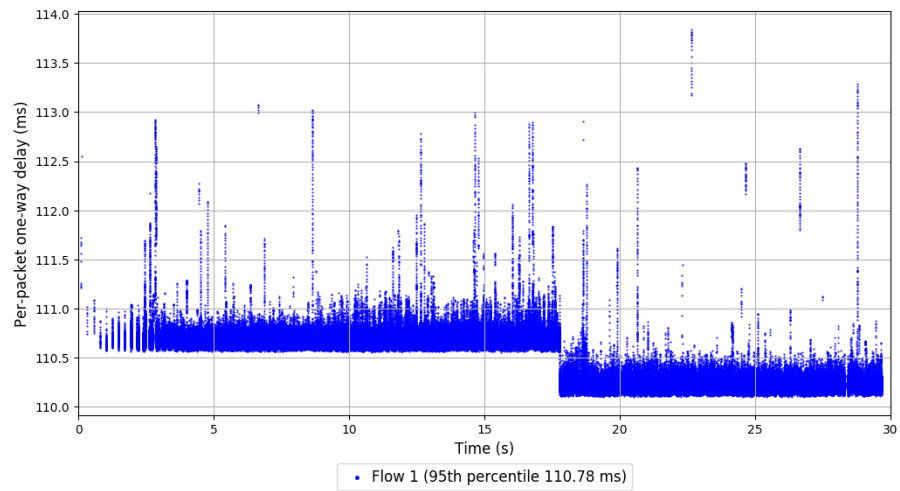
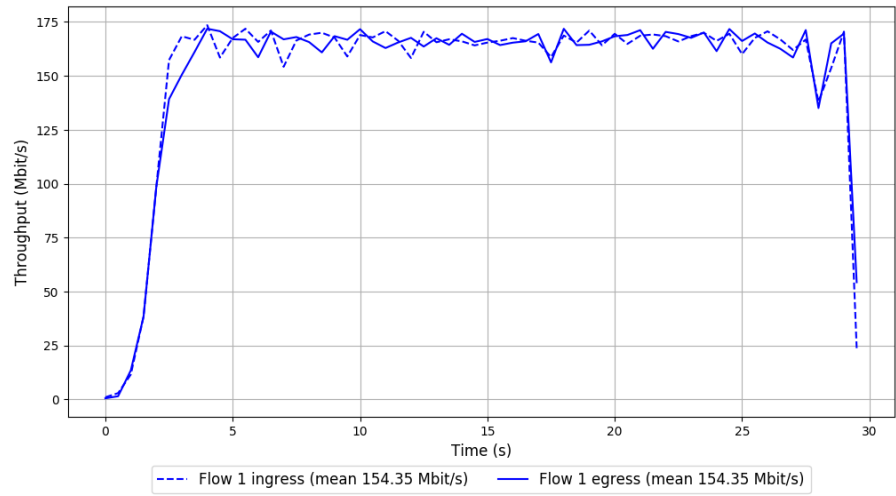
-- Flow 1:

Average throughput: 154.35 Mbit/s

95th percentile per-packet one-way delay: 110.775 ms

Loss rate: 0.00%

## Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-21 00:46:18

End at: 2017-11-21 00:46:48

# Below is generated by plot.py at 2017-11-21 02:37:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 153.25 Mbit/s

95th percentile per-packet one-way delay: 112.696 ms

Loss rate: 0.00%

-- Flow 1:

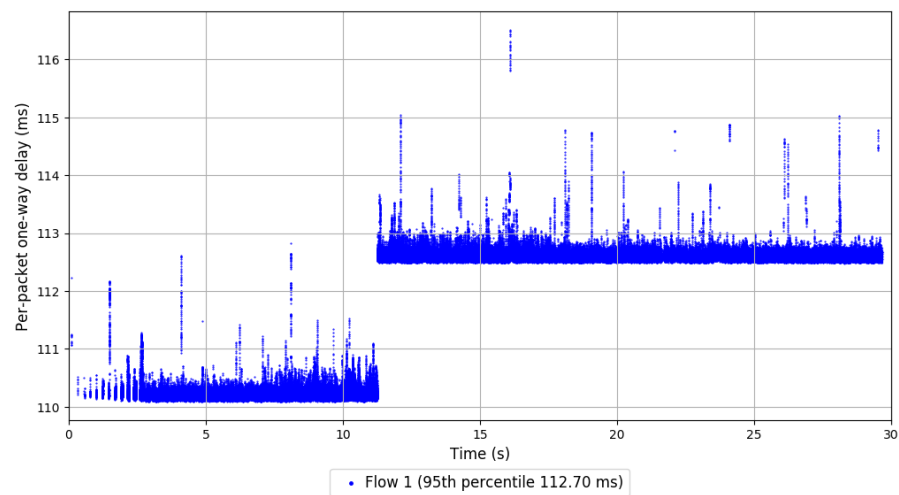
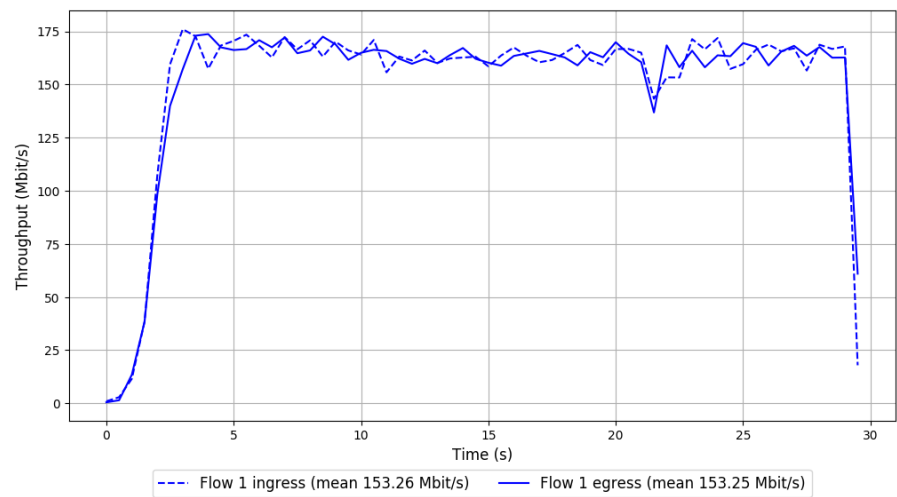
Average throughput: 153.25 Mbit/s

95th percentile per-packet one-way delay: 112.696 ms

Loss rate: 0.00%



Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-21 00:57:20

End at: 2017-11-21 00:57:50

# Below is generated by plot.py at 2017-11-21 02:37:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 155.20 Mbit/s

95th percentile per-packet one-way delay: 112.657 ms

Loss rate: 0.00%

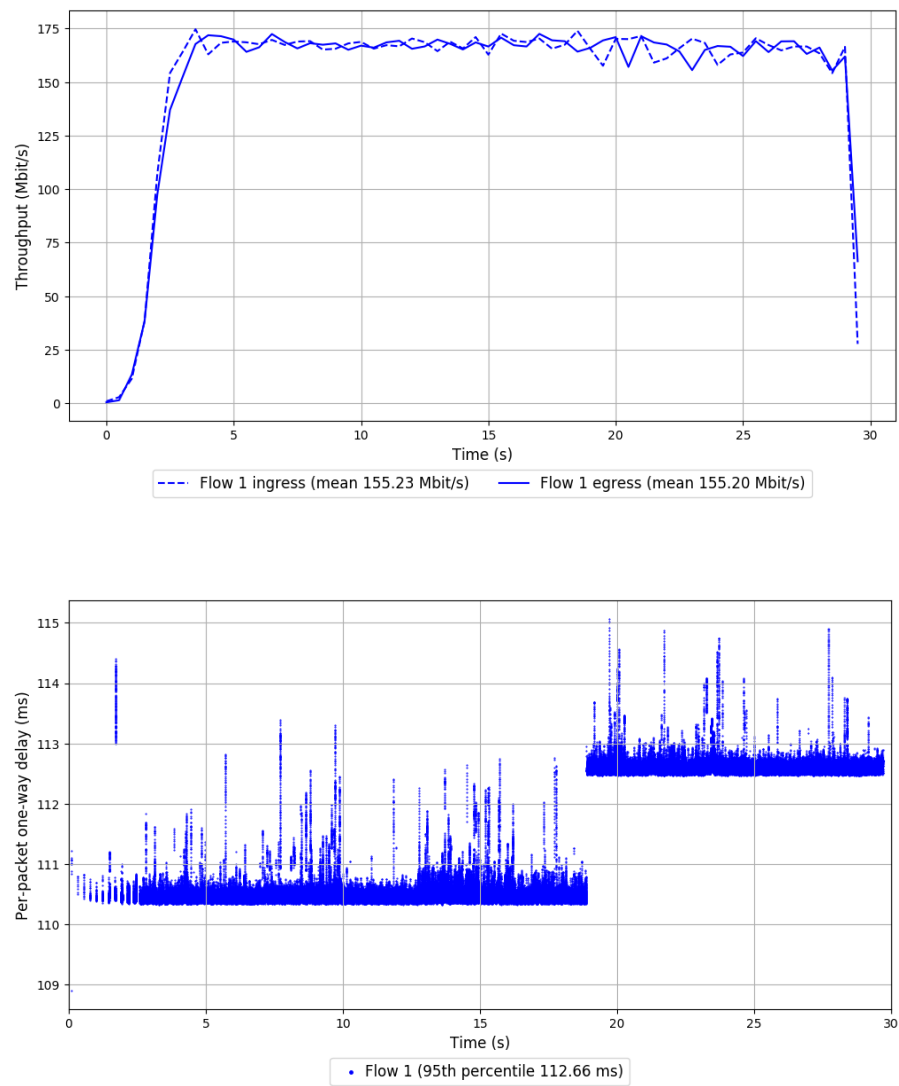
-- Flow 1:

Average throughput: 155.20 Mbit/s

95th percentile per-packet one-way delay: 112.657 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-21 01:08:32

End at: 2017-11-21 01:09:02

# Below is generated by plot.py at 2017-11-21 02:37:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 156.30 Mbit/s

95th percentile per-packet one-way delay: 110.470 ms

Loss rate: 0.00%

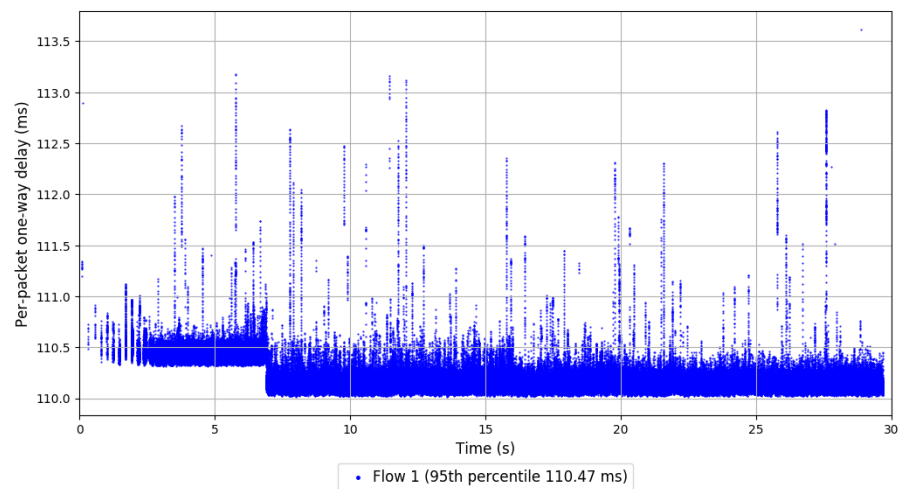
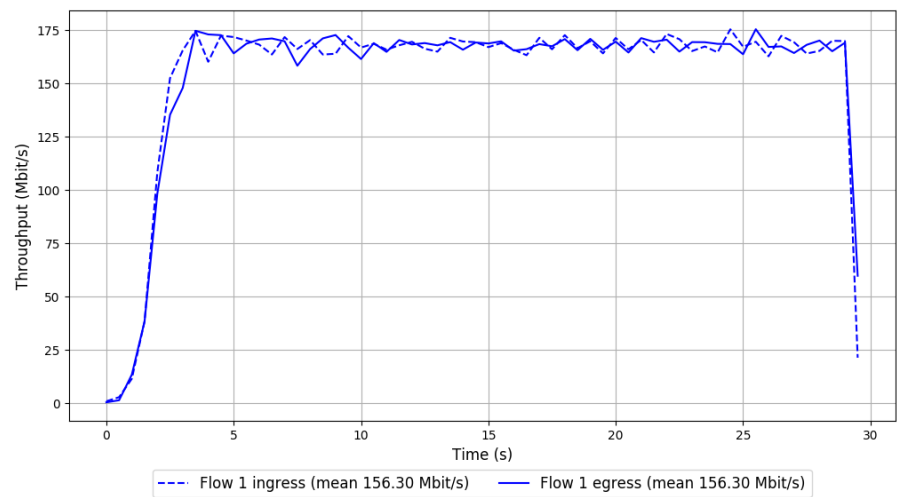
-- Flow 1:

Average throughput: 156.30 Mbit/s

95th percentile per-packet one-way delay: 110.470 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-21 01:19:32

End at: 2017-11-21 01:20:02

# Below is generated by plot.py at 2017-11-21 02:37:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 155.83 Mbit/s

95th percentile per-packet one-way delay: 112.707 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 155.83 Mbit/s

95th percentile per-packet one-way delay: 112.707 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

