

## Pantheon Report

Generated at 2018-02-20 00:46:00 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

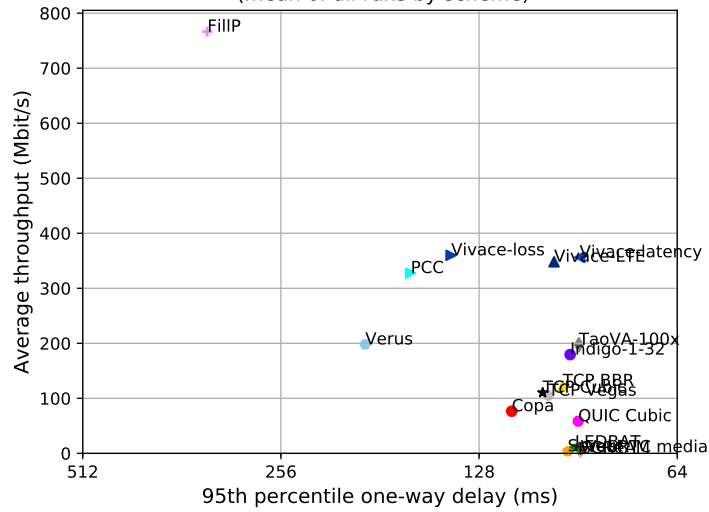
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

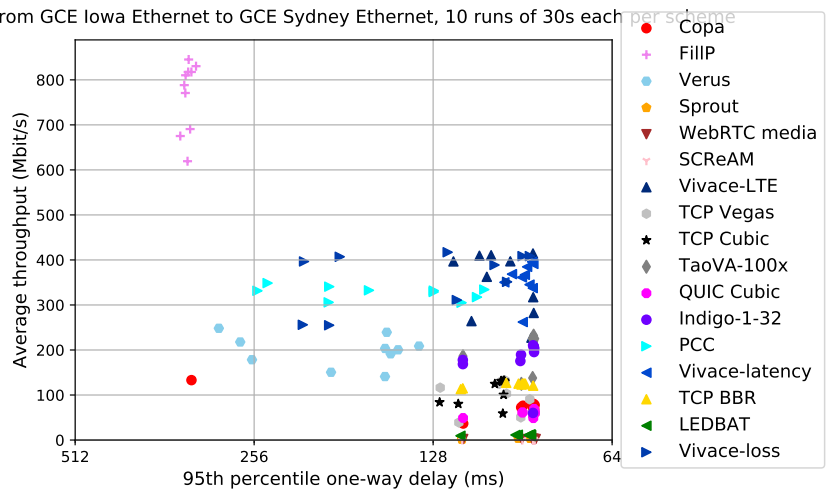
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
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 @ f1a14bffe749737437f61b1eae30b267cde681
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/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Iowa Ethernet to GCE Sydney Ethernet, 10 runs of 30s each



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	122.47	95.54	0.01
TCP Cubic	10	110.25	102.48	0.03
LEDBAT	10	11.00	91.55	0.00
PCC	10	327.66	162.59	0.48
QUIC Cubic	9	58.46	90.50	0.00
SCReAM	10	0.22	89.82	0.01
WebRTC media	10	2.19	89.82	0.00
Sprout	10	3.60	93.91	0.03
TaoVA-100x	9	197.27	90.30	0.00
TCP Vegas	10	104.85	100.45	0.01
Verus	10	197.94	190.61	1.15
Copa	10	76.58	114.19	2.92
FillP	10	766.49	331.10	6.96
Indigo-1-32	10	179.48	93.08	0.01
Vivace-latency	10	356.32	90.07	0.02
Vivace-loss	10	359.99	141.15	0.29
Vivace-LTE	10	348.20	98.48	0.10

Run 1: Statistics of TCP BBR

Start at: 2018-02-19 19:23:11

End at: 2018-02-19 19:23:41

# Below is generated by plot.py at 2018-02-19 23:31:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 125.35 Mbit/s

95th percentile per-packet one-way delay: 91.962 ms

Loss rate: 0.00%

-- Flow 1:

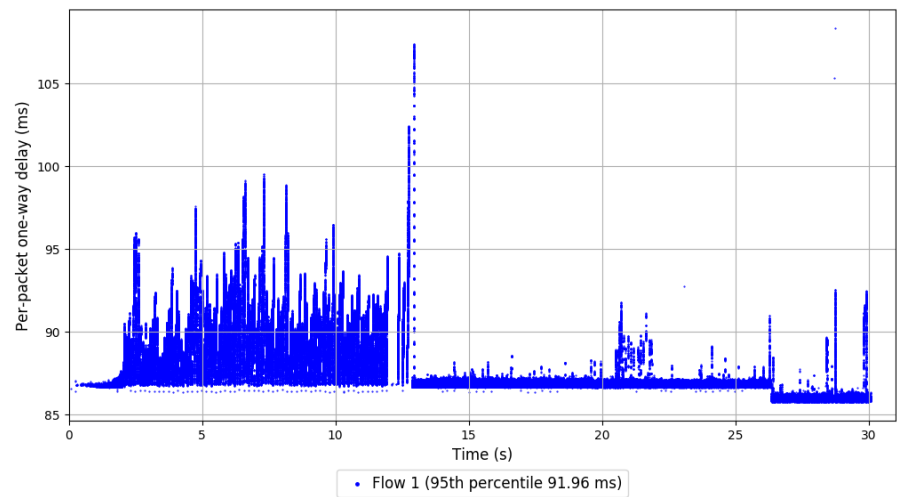
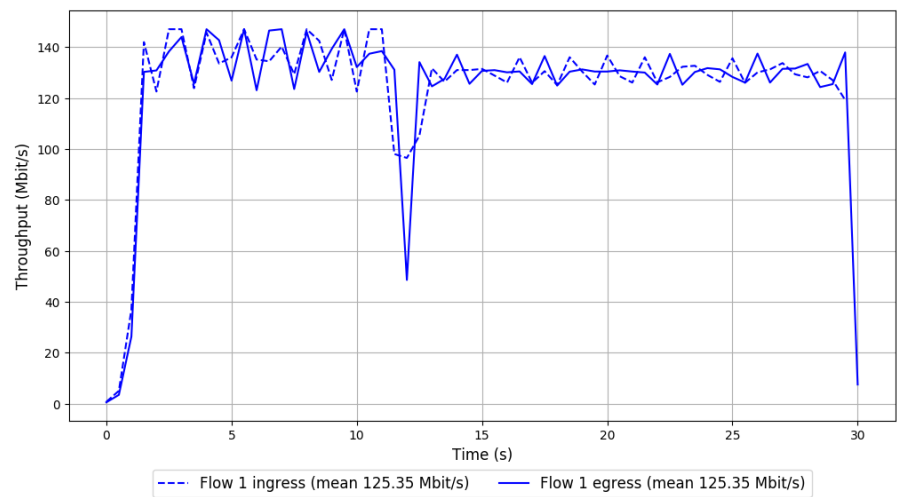
Average throughput: 125.35 Mbit/s

95th percentile per-packet one-way delay: 91.962 ms

Loss rate: 0.00%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-19 19:38:02

End at: 2018-02-19 19:38:32

# Below is generated by plot.py at 2018-02-19 23:31:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 124.12 Mbit/s

95th percentile per-packet one-way delay: 89.868 ms

Loss rate: 0.00%

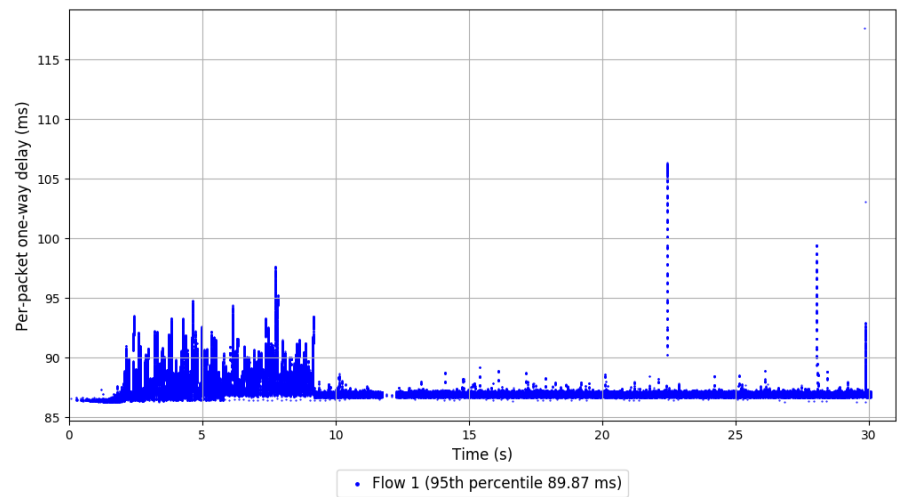
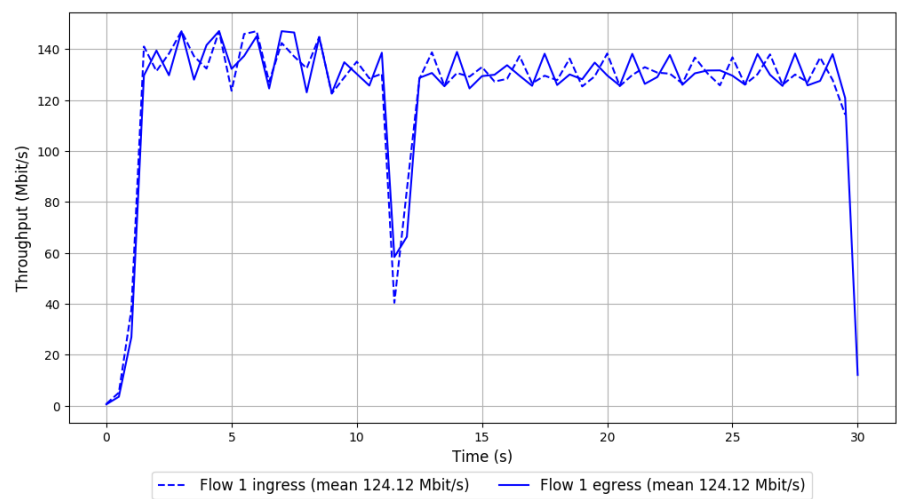
-- Flow 1:

Average throughput: 124.12 Mbit/s

95th percentile per-packet one-way delay: 89.868 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-19 19:53:16

End at: 2018-02-19 19:53:46

# Below is generated by plot.py at 2018-02-19 23:31:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 123.34 Mbit/s

95th percentile per-packet one-way delay: 90.900 ms

Loss rate: 0.00%

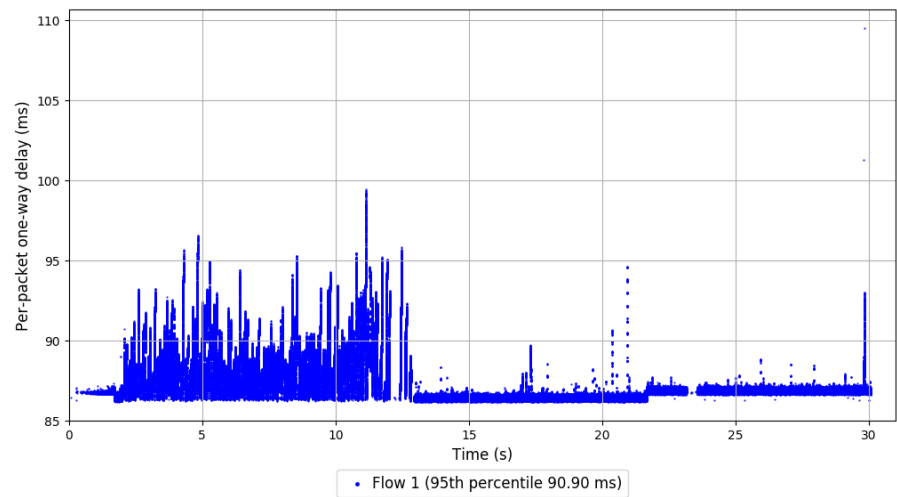
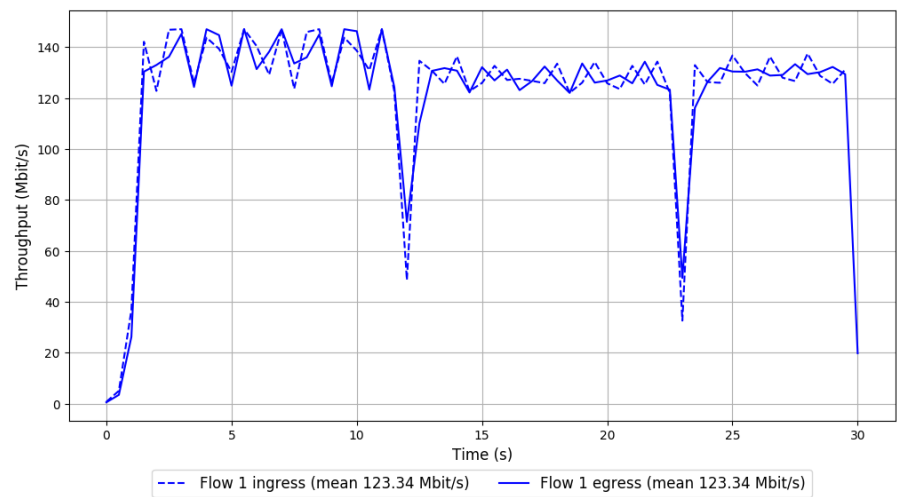
-- Flow 1:

Average throughput: 123.34 Mbit/s

95th percentile per-packet one-way delay: 90.900 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-19 20:08:31

End at: 2018-02-19 20:09:01

# Below is generated by plot.py at 2018-02-19 23:31:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 125.76 Mbit/s

95th percentile per-packet one-way delay: 90.055 ms

Loss rate: 0.00%

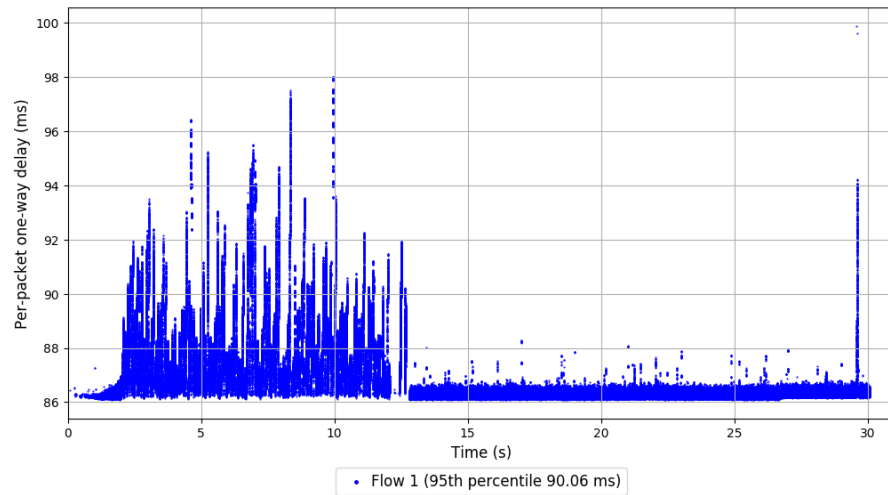
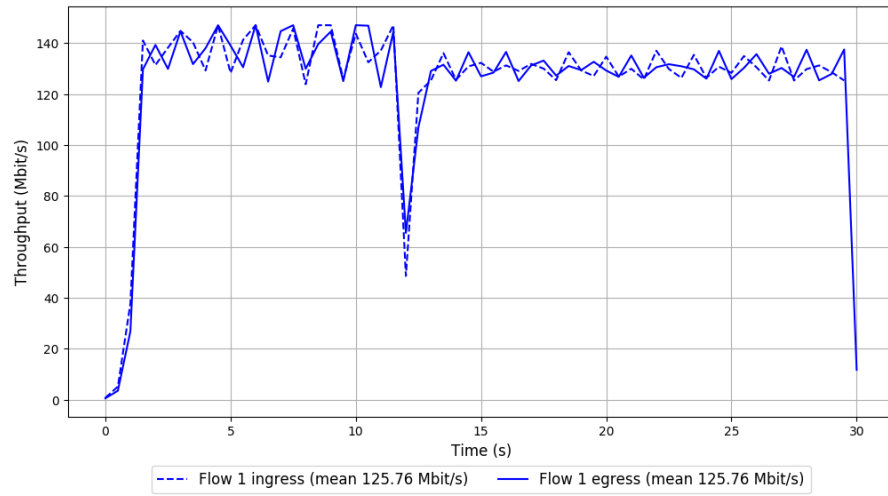
-- Flow 1:

Average throughput: 125.76 Mbit/s

95th percentile per-packet one-way delay: 90.055 ms

Loss rate: 0.00%

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



Run 5: Statistics of TCP BBR

Start at: 2018-02-19 20:23:57

End at: 2018-02-19 20:24:27

# Below is generated by plot.py at 2018-02-19 23:31:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 120.75 Mbit/s

95th percentile per-packet one-way delay: 86.885 ms

Loss rate: 0.00%

-- Flow 1:

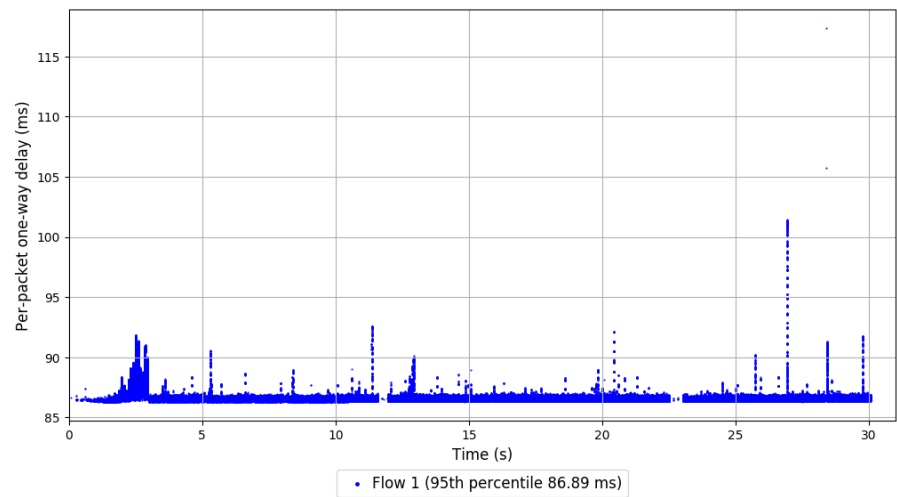
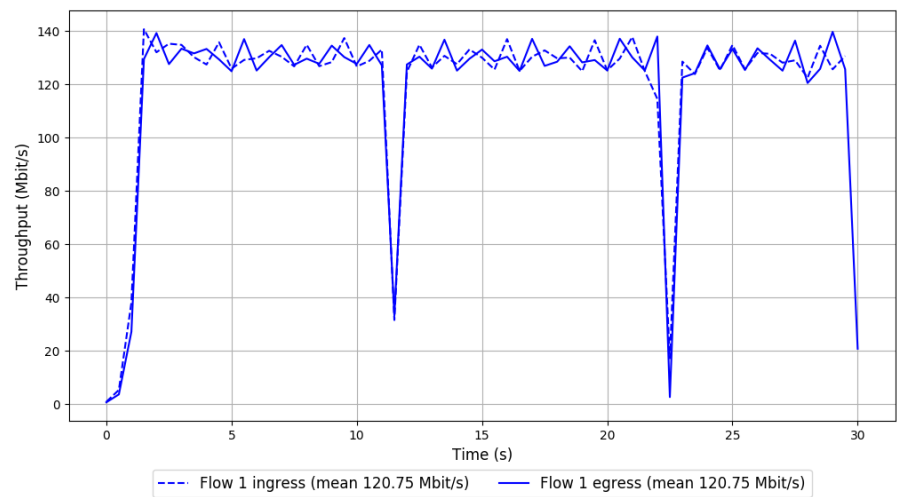
Average throughput: 120.75 Mbit/s

95th percentile per-packet one-way delay: 86.885 ms

Loss rate: 0.00%



Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-19 20:39:26

End at: 2018-02-19 20:39:56

# Below is generated by plot.py at 2018-02-19 23:31:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 125.26 Mbit/s

95th percentile per-packet one-way delay: 90.574 ms

Loss rate: 0.00%

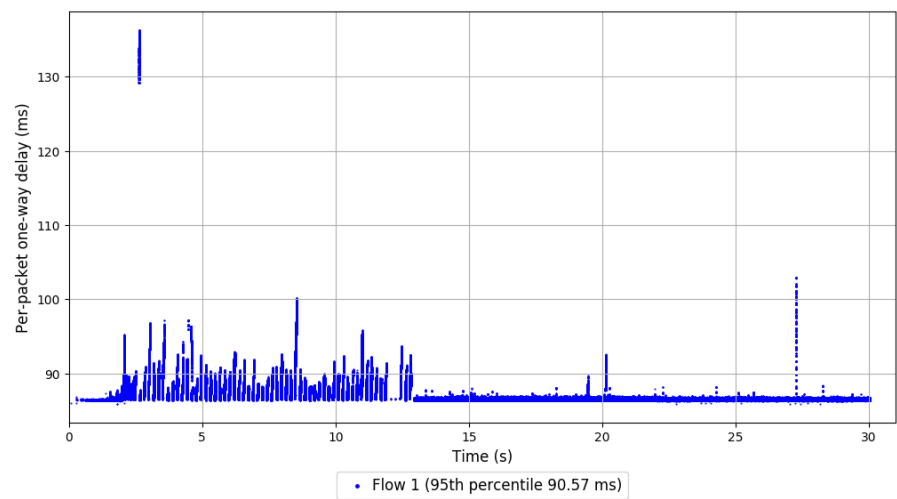
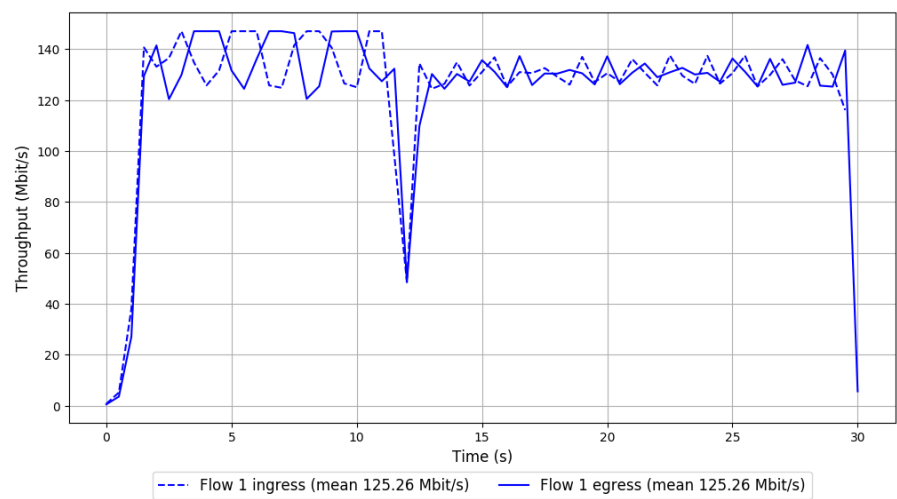
-- Flow 1:

Average throughput: 125.26 Mbit/s

95th percentile per-packet one-way delay: 90.574 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-19 20:54:37

End at: 2018-02-19 20:55:07

# Below is generated by plot.py at 2018-02-19 23:31:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 125.27 Mbit/s

95th percentile per-packet one-way delay: 89.605 ms

Loss rate: 0.00%

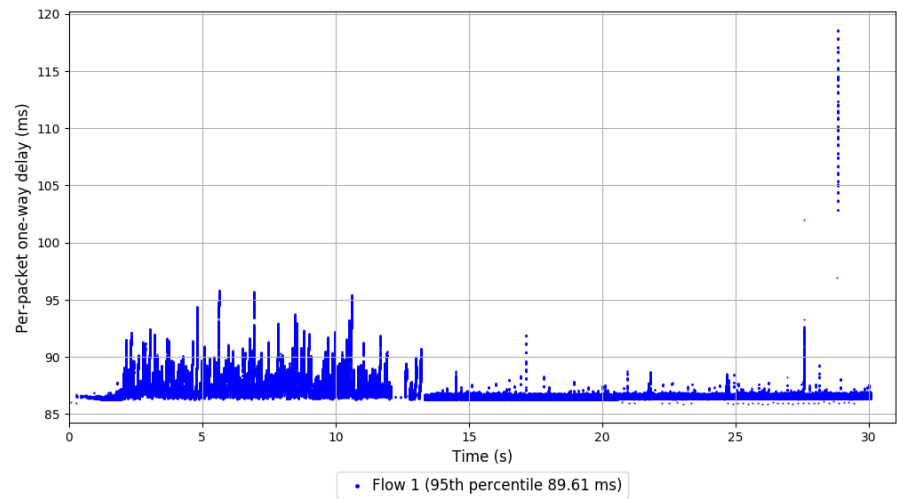
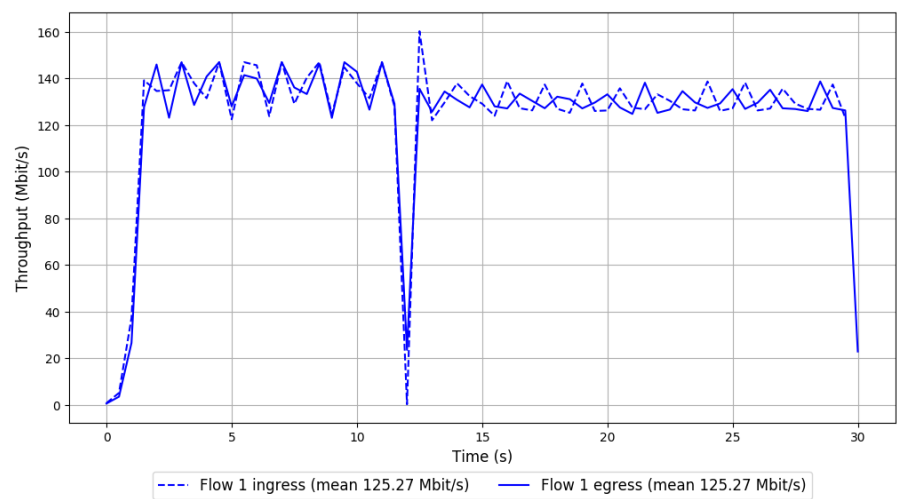
-- Flow 1:

Average throughput: 125.27 Mbit/s

95th percentile per-packet one-way delay: 89.605 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-19 21:09:37

End at: 2018-02-19 21:10:07

# Below is generated by plot.py at 2018-02-19 23:31:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 114.88 Mbit/s

95th percentile per-packet one-way delay: 114.135 ms

Loss rate: 0.10%

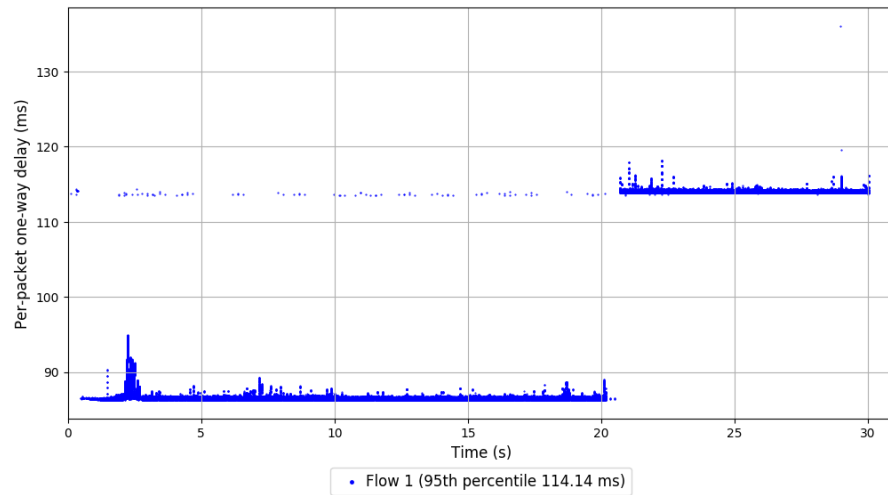
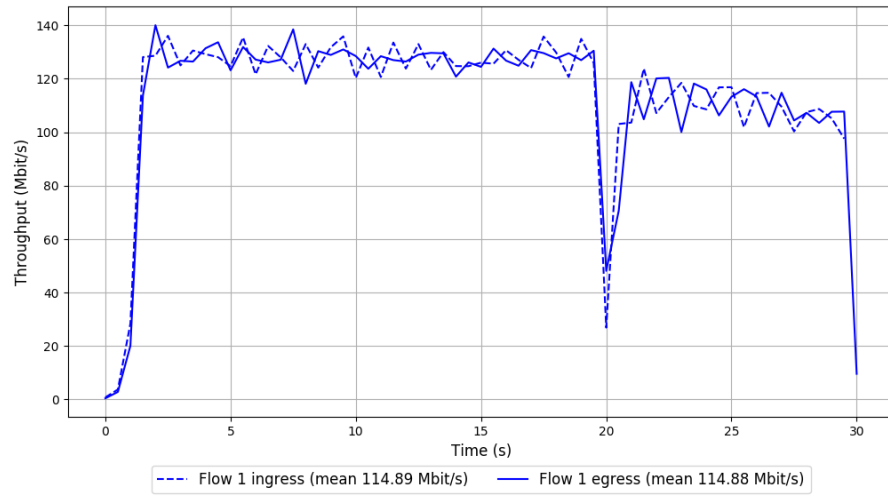
-- Flow 1:

Average throughput: 114.88 Mbit/s

95th percentile per-packet one-way delay: 114.135 ms

Loss rate: 0.10%

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



Run 9: Statistics of TCP BBR

Start at: 2018-02-19 21:24:49

End at: 2018-02-19 21:25:19

# Below is generated by plot.py at 2018-02-19 23:33:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 112.93 Mbit/s

95th percentile per-packet one-way delay: 115.010 ms

Loss rate: 0.00%

-- Flow 1:

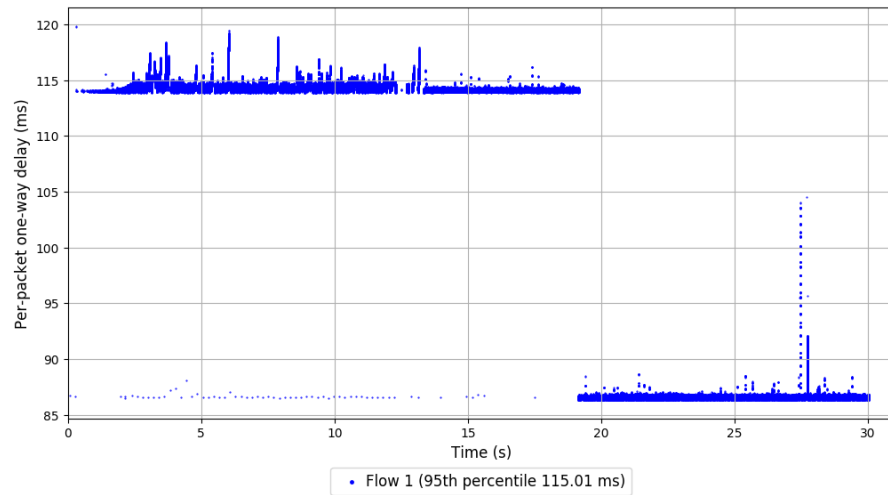
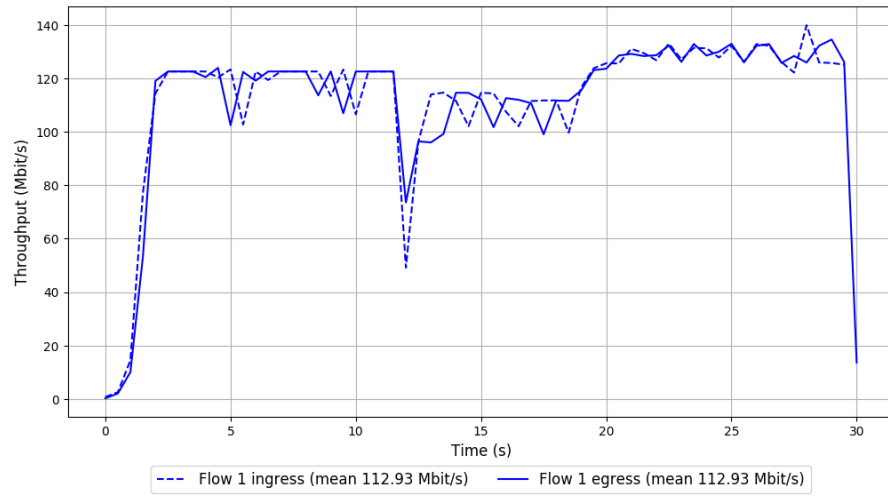
Average throughput: 112.93 Mbit/s

95th percentile per-packet one-way delay: 115.010 ms

Loss rate: 0.00%



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



Run 10: Statistics of TCP BBR

Start at: 2018-02-19 21:39:47

End at: 2018-02-19 21:40:17

# Below is generated by plot.py at 2018-02-19 23:33:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 127.04 Mbit/s

95th percentile per-packet one-way delay: 96.442 ms

Loss rate: 0.01%

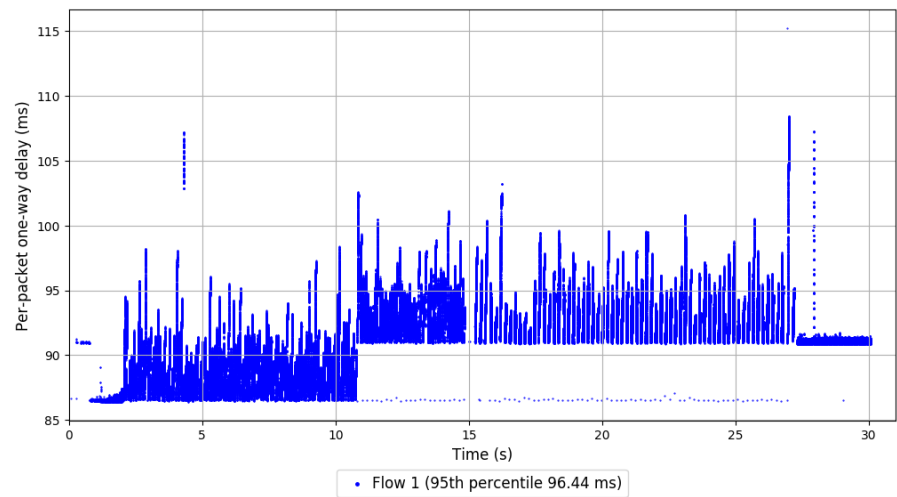
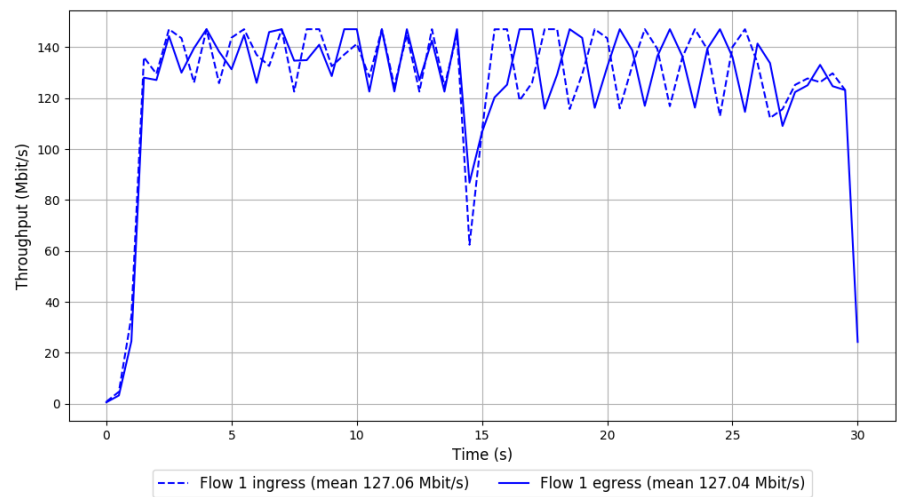
-- Flow 1:

Average throughput: 127.04 Mbit/s

95th percentile per-packet one-way delay: 96.442 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-19 19:23:57

End at: 2018-02-19 19:24:27

# Below is generated by plot.py at 2018-02-19 23:33:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 58.94 Mbit/s

95th percentile per-packet one-way delay: 97.725 ms

Loss rate: 0.00%

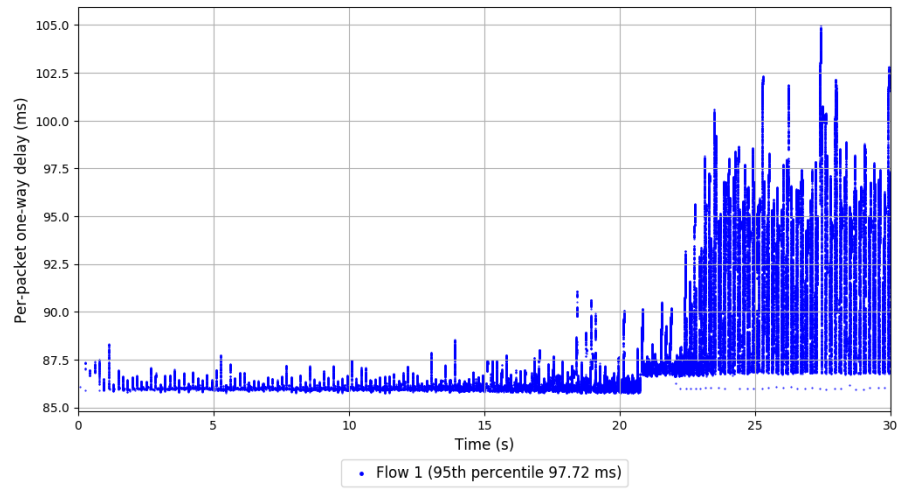
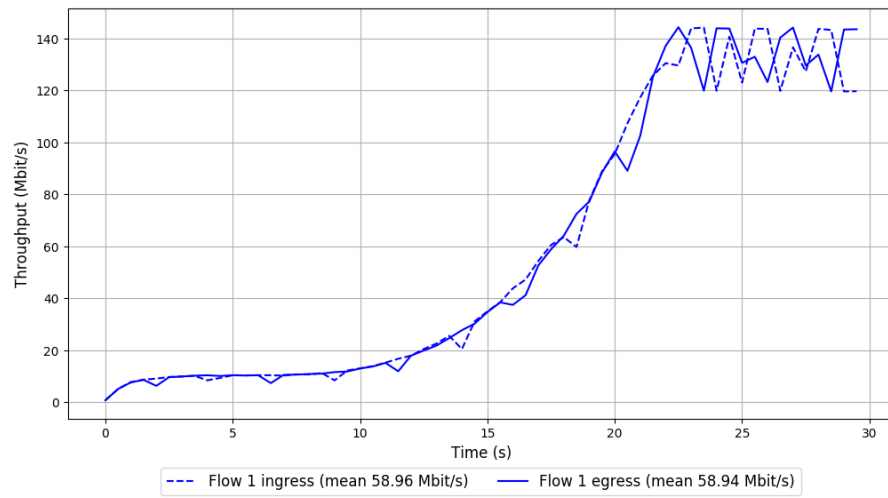
-- Flow 1:

Average throughput: 58.94 Mbit/s

95th percentile per-packet one-way delay: 97.725 ms

Loss rate: 0.00%

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



Run 2: Statistics of TCP Cubic

Start at: 2018-02-19 19:38:47

End at: 2018-02-19 19:39:17

# Below is generated by plot.py at 2018-02-19 23:33:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 129.71 Mbit/s

95th percentile per-packet one-way delay: 97.972 ms

Loss rate: 0.00%

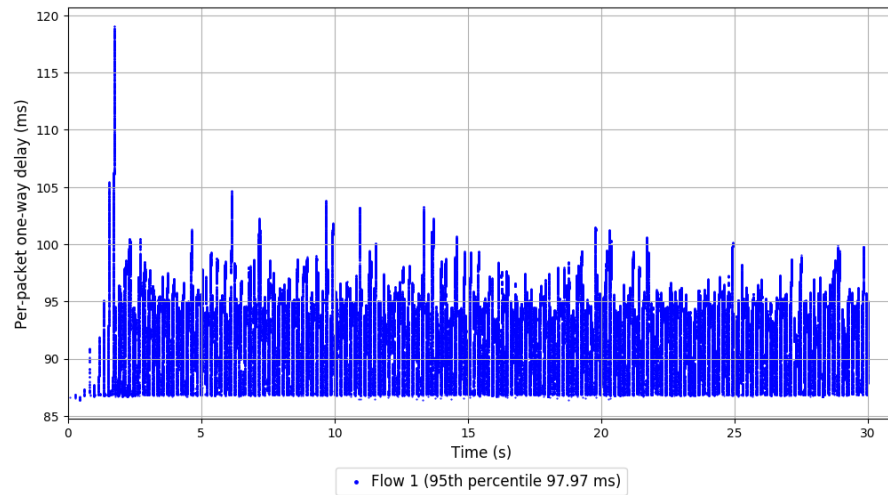
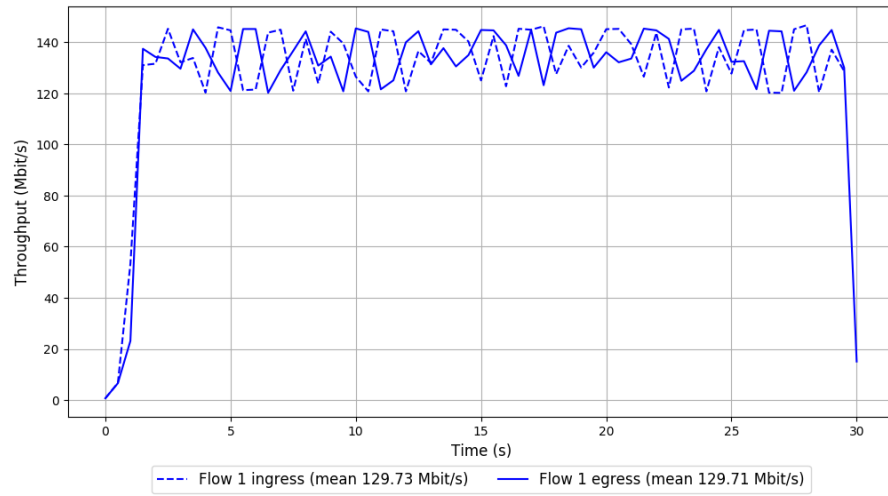
-- Flow 1:

Average throughput: 129.71 Mbit/s

95th percentile per-packet one-way delay: 97.972 ms

Loss rate: 0.00%

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



Run 3: Statistics of TCP Cubic

Start at: 2018-02-19 19:54:02

End at: 2018-02-19 19:54:32

# Below is generated by plot.py at 2018-02-19 23:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 131.29 Mbit/s

95th percentile per-packet one-way delay: 98.373 ms

Loss rate: 0.00%

-- Flow 1:

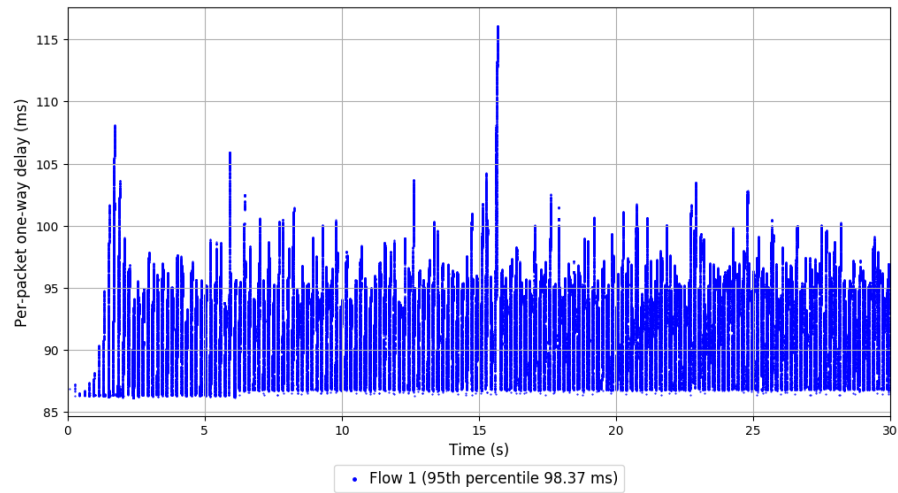
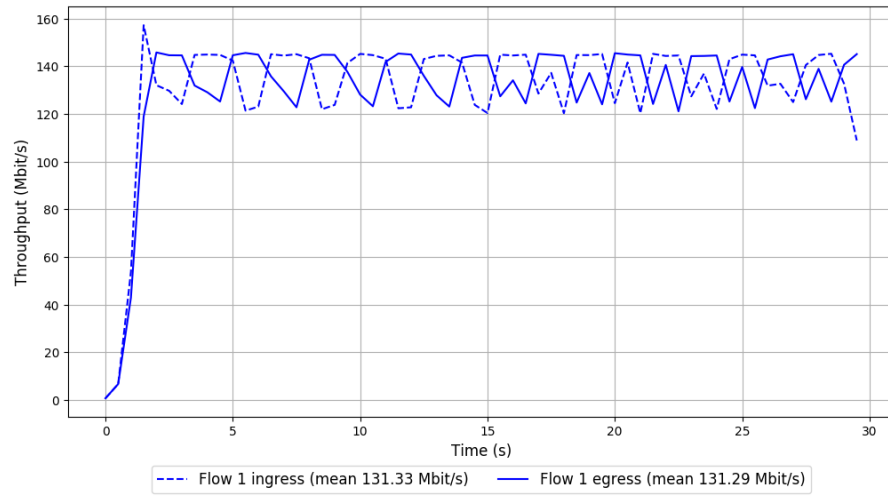
Average throughput: 131.29 Mbit/s

95th percentile per-packet one-way delay: 98.373 ms

Loss rate: 0.00%



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



Run 4: Statistics of TCP Cubic

Start at: 2018-02-19 20:09:16

End at: 2018-02-19 20:09:46

# Below is generated by plot.py at 2018-02-19 23:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 129.70 Mbit/s

95th percentile per-packet one-way delay: 96.989 ms

Loss rate: 0.00%

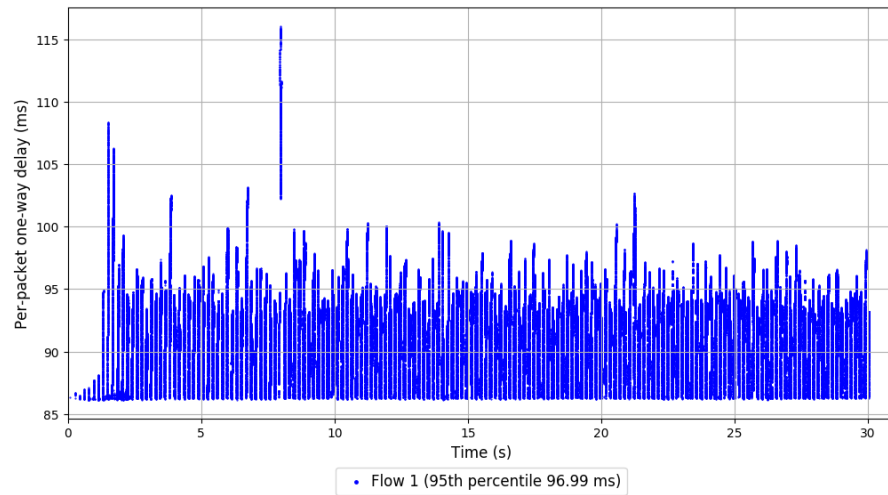
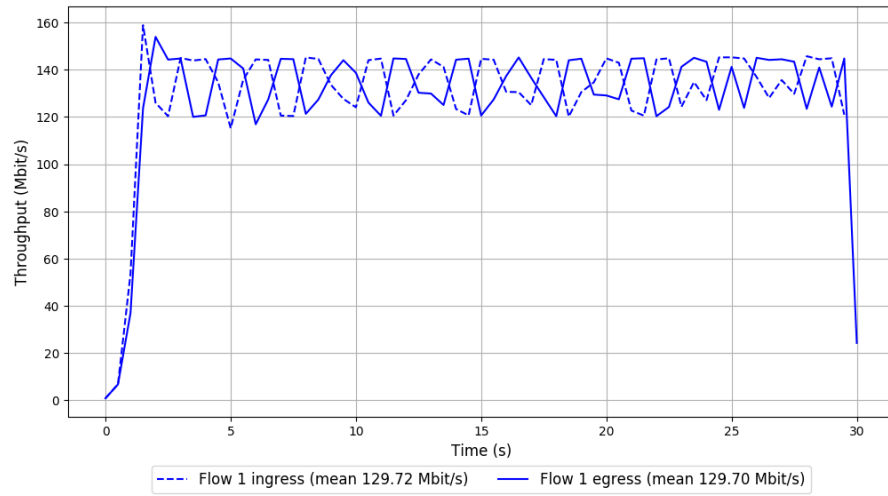
-- Flow 1:

Average throughput: 129.70 Mbit/s

95th percentile per-packet one-way delay: 96.989 ms

Loss rate: 0.00%

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



Run 5: Statistics of TCP Cubic

Start at: 2018-02-19 20:24:43

End at: 2018-02-19 20:25:13

# Below is generated by plot.py at 2018-02-19 23:33:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 131.66 Mbit/s

95th percentile per-packet one-way delay: 97.383 ms

Loss rate: 0.00%

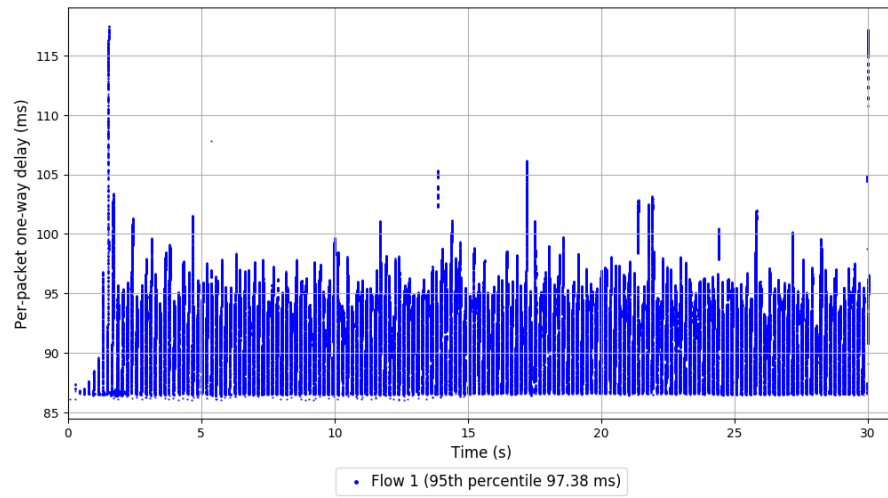
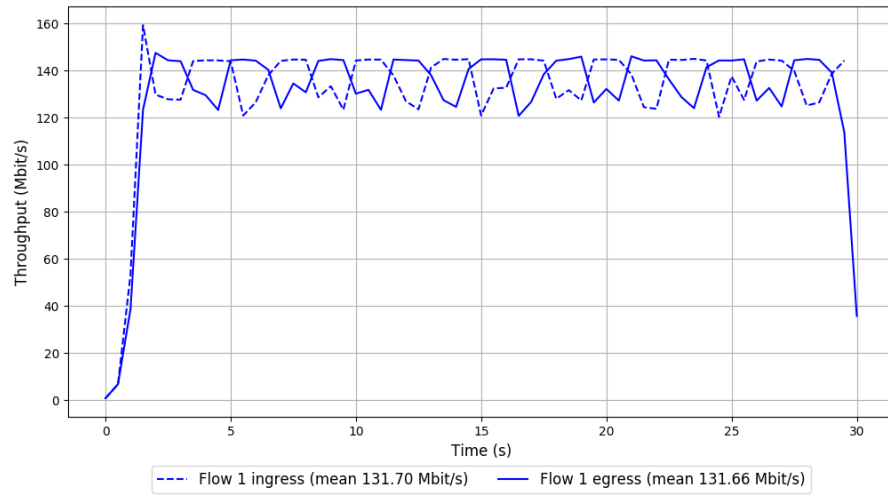
-- Flow 1:

Average throughput: 131.66 Mbit/s

95th percentile per-packet one-way delay: 97.383 ms

Loss rate: 0.00%

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



Run 6: Statistics of TCP Cubic

Start at: 2018-02-19 20:40:11

End at: 2018-02-19 20:40:41

# Below is generated by plot.py at 2018-02-19 23:33:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 131.81 Mbit/s

95th percentile per-packet one-way delay: 97.190 ms

Loss rate: 0.00%

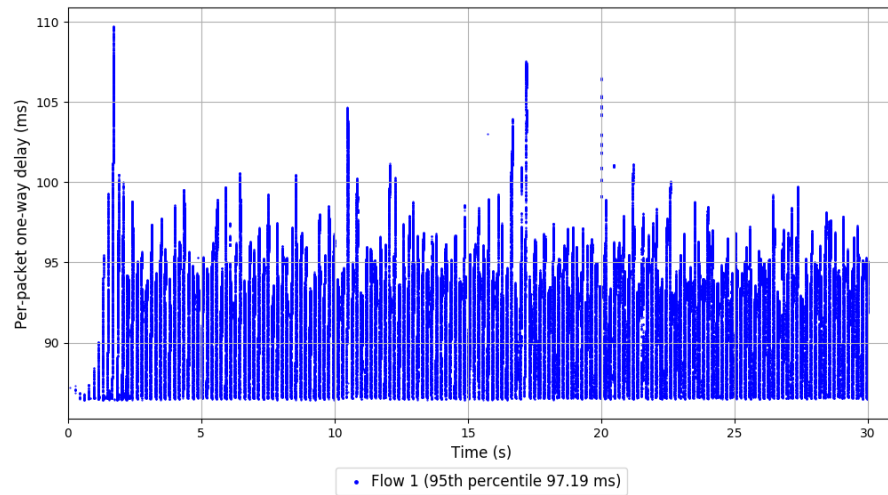
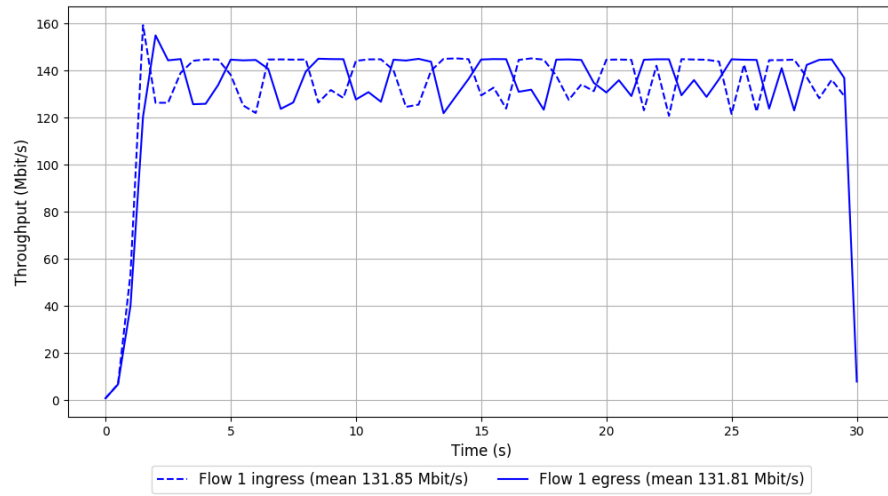
-- Flow 1:

Average throughput: 131.81 Mbit/s

95th percentile per-packet one-way delay: 97.190 ms

Loss rate: 0.00%

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



Run 7: Statistics of TCP Cubic

Start at: 2018-02-19 20:55:23

End at: 2018-02-19 20:55:53

# Below is generated by plot.py at 2018-02-19 23:34:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 100.50 Mbit/s

95th percentile per-packet one-way delay: 97.442 ms

Loss rate: 0.00%

-- Flow 1:

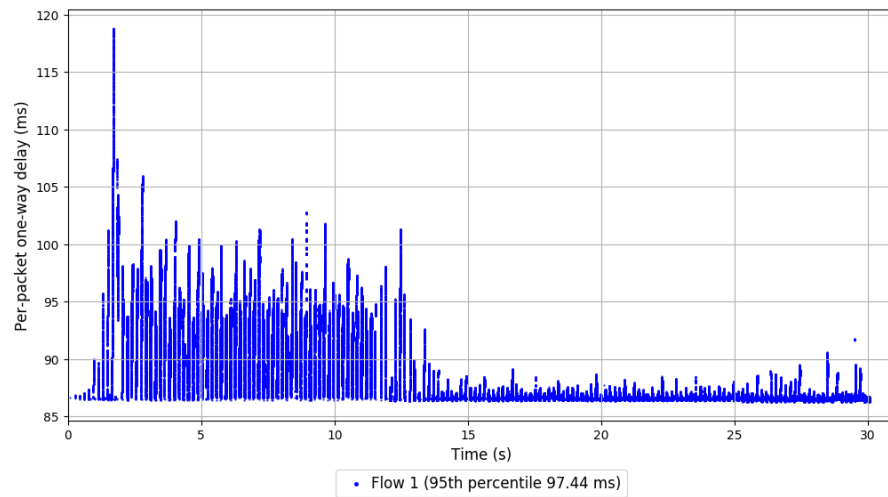
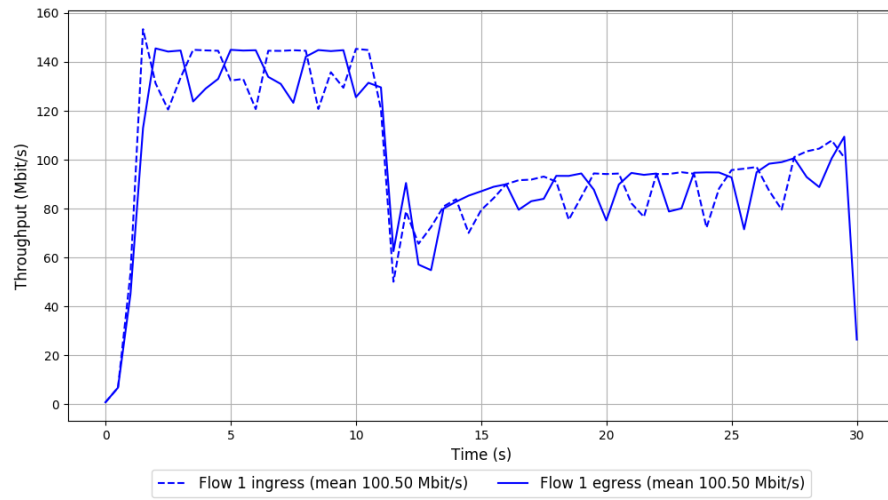
Average throughput: 100.50 Mbit/s

95th percentile per-packet one-way delay: 97.442 ms

Loss rate: 0.00%



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



Run 8: Statistics of TCP Cubic

Start at: 2018-02-19 21:10:22

End at: 2018-02-19 21:10:52

# Below is generated by plot.py at 2018-02-19 23:34:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.26 Mbit/s

95th percentile per-packet one-way delay: 116.117 ms

Loss rate: 0.13%

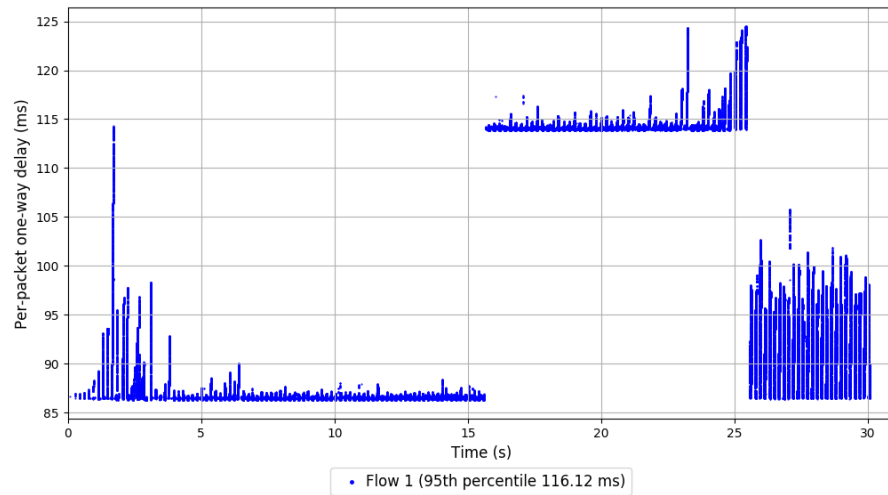
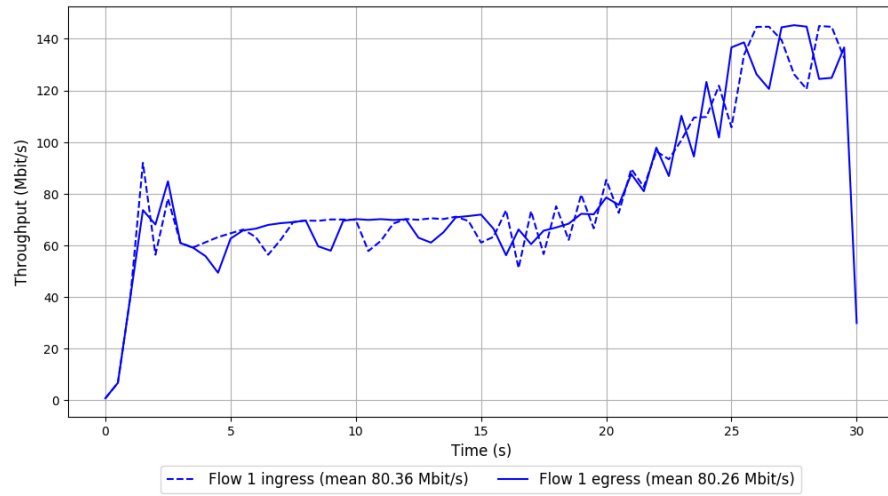
-- Flow 1:

Average throughput: 80.26 Mbit/s

95th percentile per-packet one-way delay: 116.117 ms

Loss rate: 0.13%

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



Run 9: Statistics of TCP Cubic

Start at: 2018-02-19 21:25:34

End at: 2018-02-19 21:26:04

# Below is generated by plot.py at 2018-02-19 23:34:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.92 Mbit/s

95th percentile per-packet one-way delay: 124.829 ms

Loss rate: 0.15%

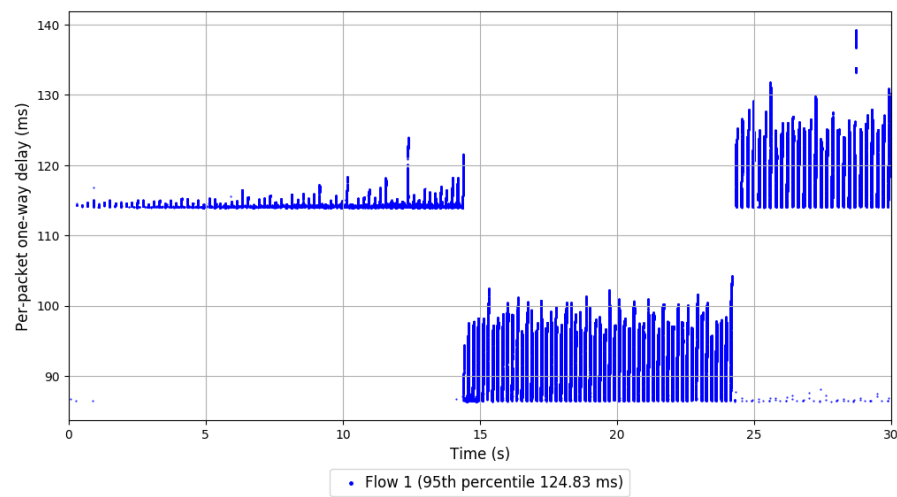
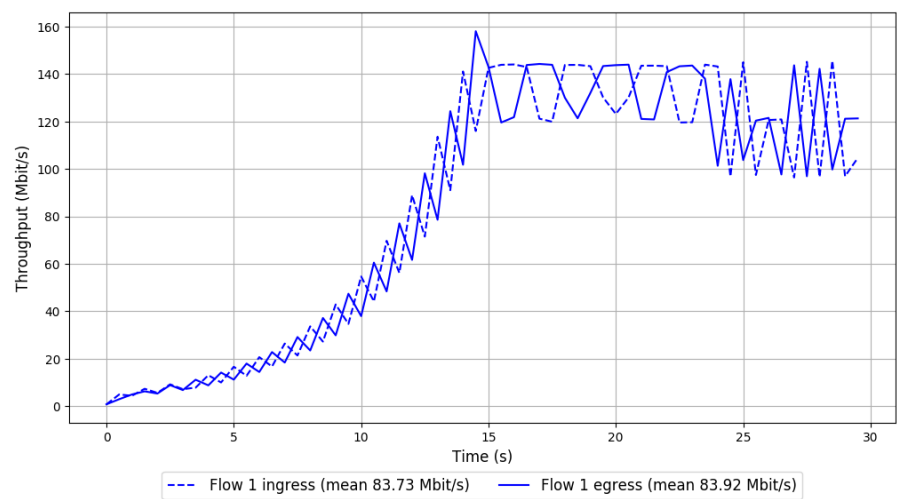
-- Flow 1:

Average throughput: 83.92 Mbit/s

95th percentile per-packet one-way delay: 124.829 ms

Loss rate: 0.15%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-19 21:40:33

End at: 2018-02-19 21:41:03

# Below is generated by plot.py at 2018-02-19 23:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 124.66 Mbit/s

95th percentile per-packet one-way delay: 100.794 ms

Loss rate: 0.00%

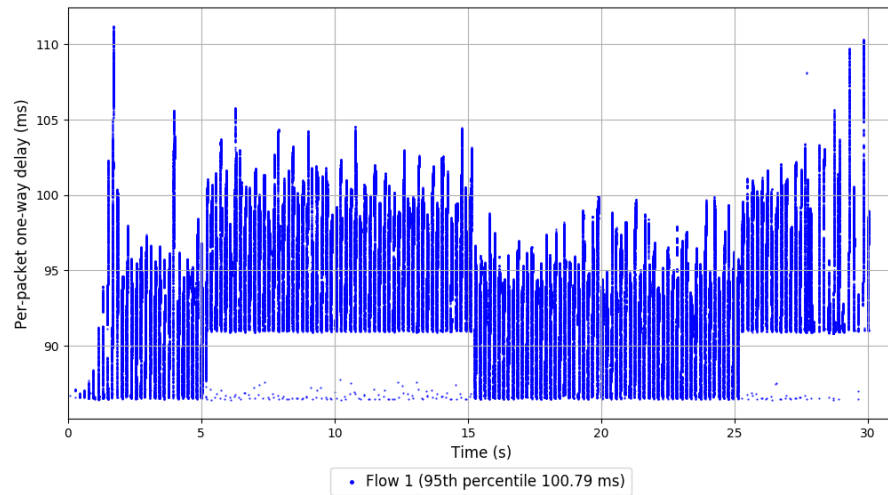
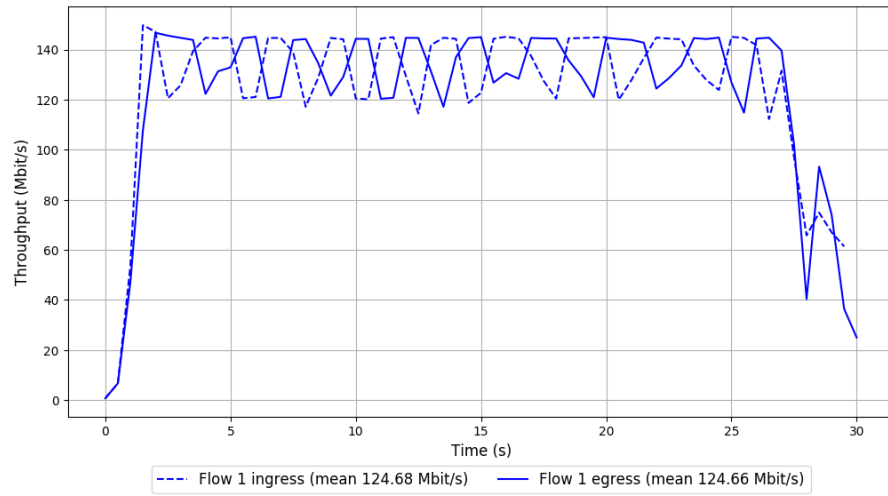
-- Flow 1:

Average throughput: 124.66 Mbit/s

95th percentile per-packet one-way delay: 100.794 ms

Loss rate: 0.00%

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



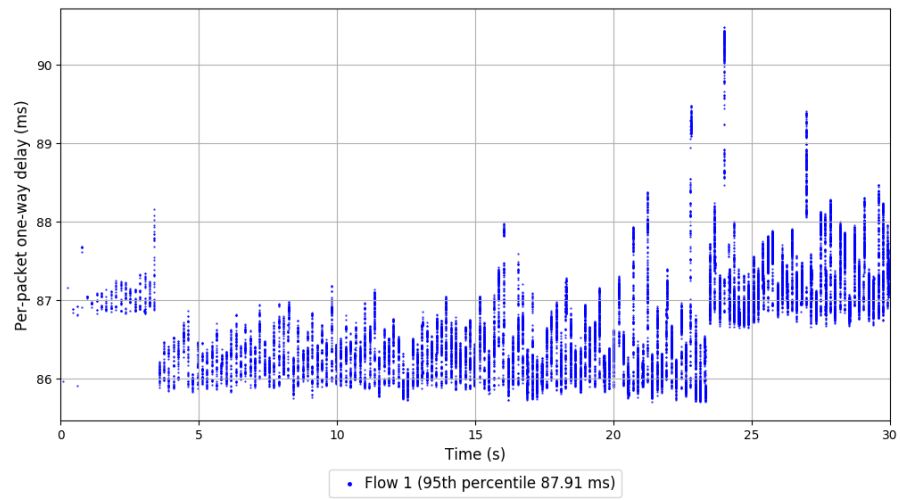
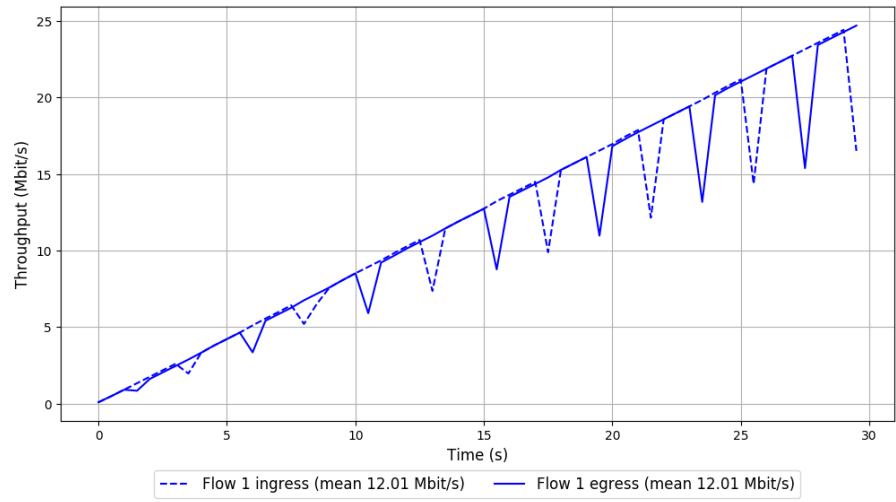
```
Run 1: Statistics of LEDBAT

Start at: 2018-02-19 19:31:14
End at: 2018-02-19 19:31:44

# Below is generated by plot.py at 2018-02-19 23:35:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.01 Mbit/s
95th percentile per-packet one-way delay: 87.912 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.01 Mbit/s
95th percentile per-packet one-way delay: 87.912 ms
Loss rate: 0.00%
```



# Run 1: Report of LEDBAT — Data Link

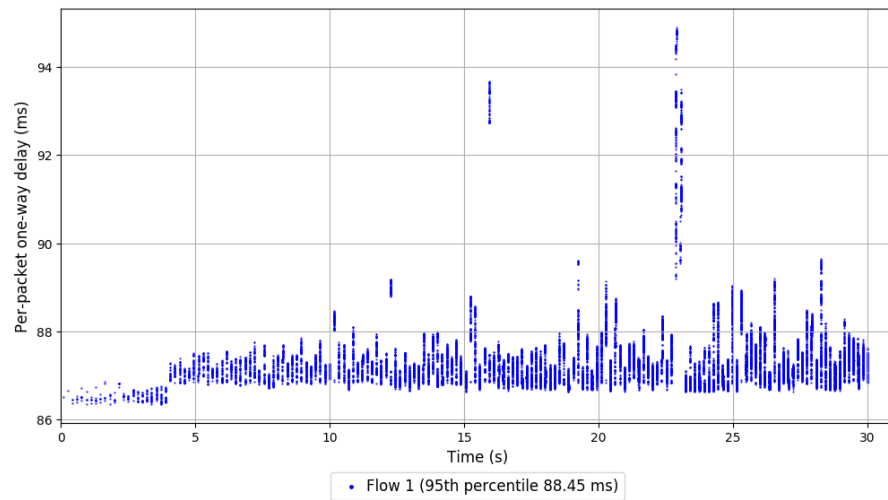
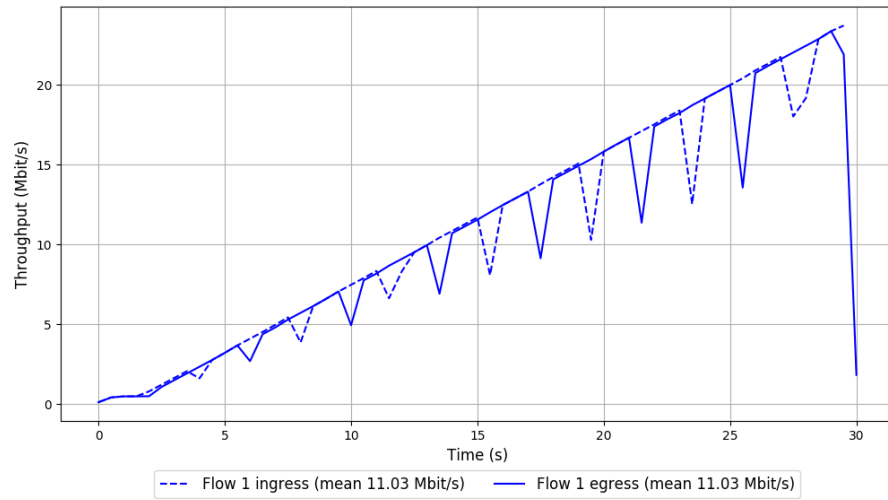


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-19 19:46:34
End at: 2018-02-19 19:47:04

# Below is generated by plot.py at 2018-02-19 23:35:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.03 Mbit/s
95th percentile per-packet one-way delay: 88.449 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.03 Mbit/s
95th percentile per-packet one-way delay: 88.449 ms
Loss rate: 0.00%
```

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-19 20:01:50

End at: 2018-02-19 20:02:20

# Below is generated by plot.py at 2018-02-19 23:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.47 Mbit/s

95th percentile per-packet one-way delay: 87.604 ms

Loss rate: 0.00%

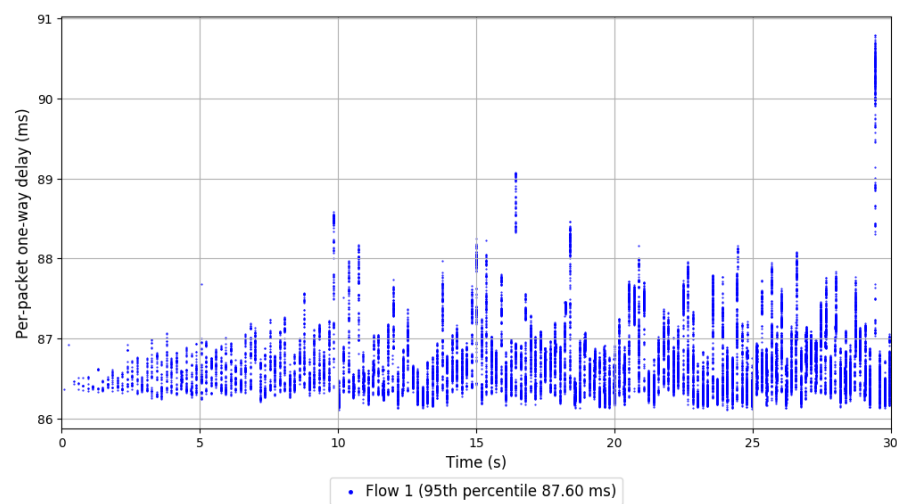
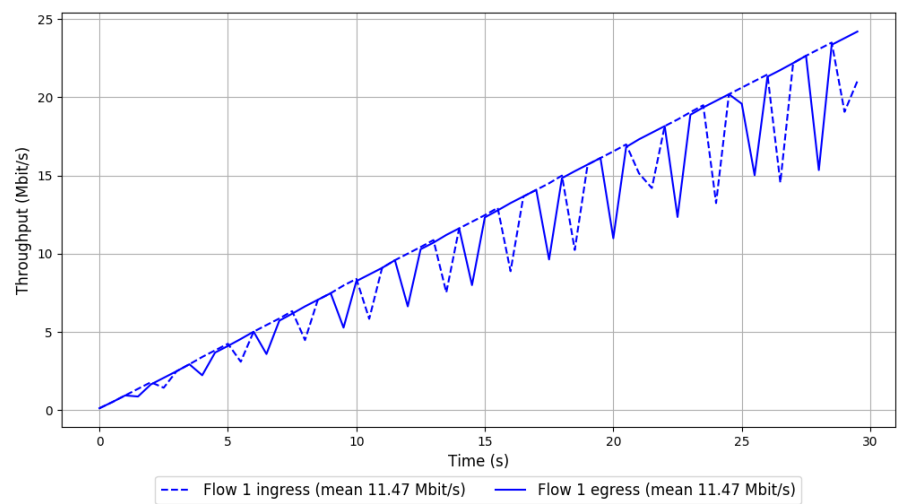
-- Flow 1:

Average throughput: 11.47 Mbit/s

95th percentile per-packet one-way delay: 87.604 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-19 20:17:00

End at: 2018-02-19 20:17:30

# Below is generated by plot.py at 2018-02-19 23:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.84 Mbit/s

95th percentile per-packet one-way delay: 87.663 ms

Loss rate: 0.00%

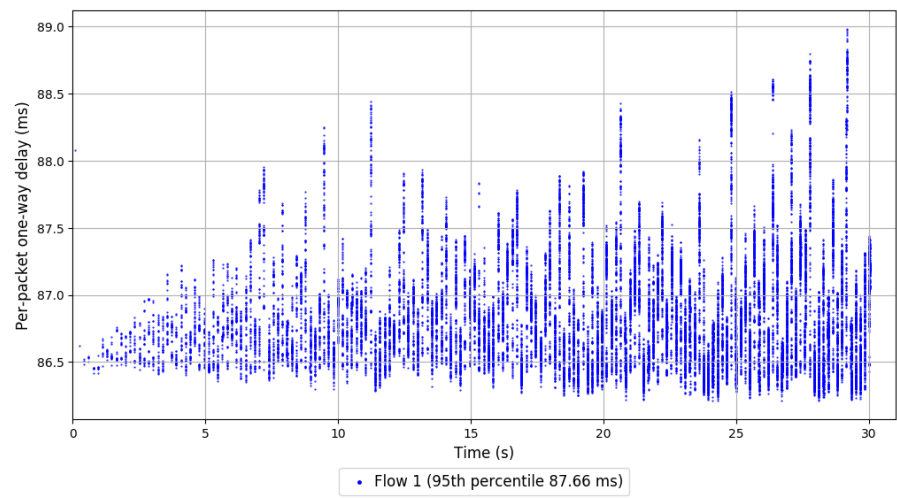
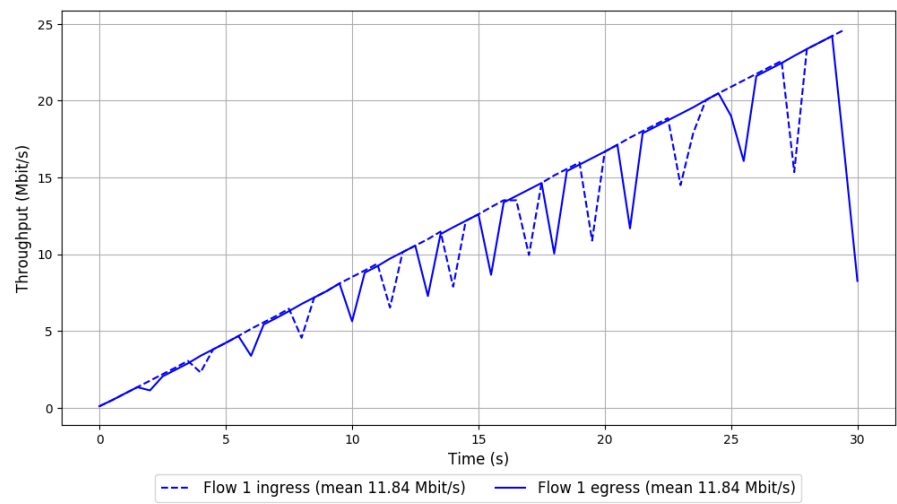
-- Flow 1:

Average throughput: 11.84 Mbit/s

95th percentile per-packet one-way delay: 87.663 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-19 20:32:35

End at: 2018-02-19 20:33:05

# Below is generated by plot.py at 2018-02-19 23:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.44 Mbit/s

95th percentile per-packet one-way delay: 87.690 ms

Loss rate: 0.00%

-- Flow 1:

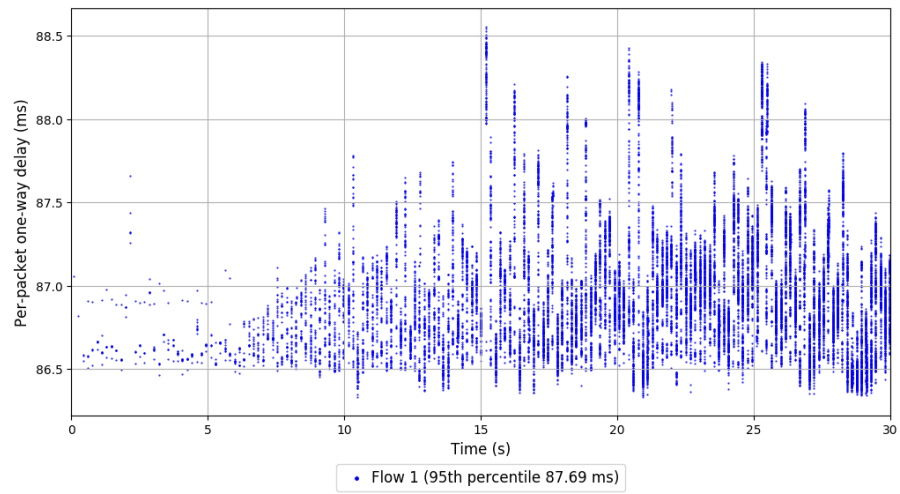
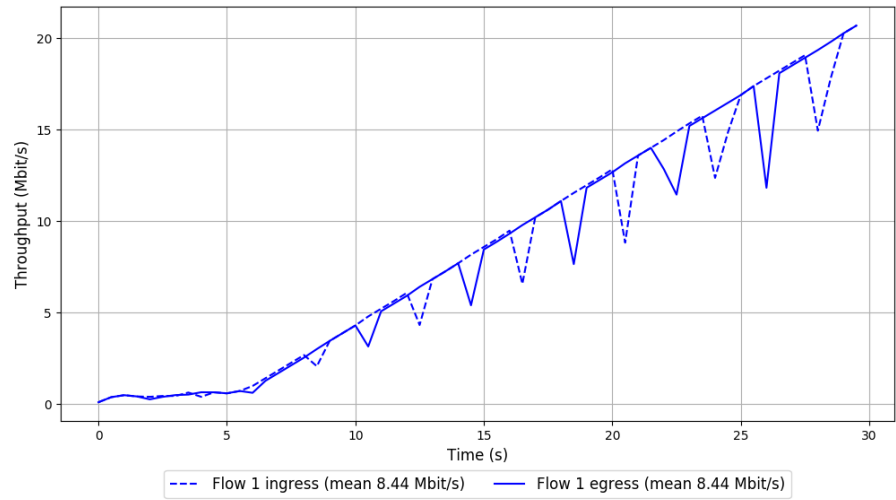
Average throughput: 8.44 Mbit/s

95th percentile per-packet one-way delay: 87.690 ms

Loss rate: 0.00%



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



Run 6: Statistics of LEDBAT

Start at: 2018-02-19 20:47:45

End at: 2018-02-19 20:48:15

# Below is generated by plot.py at 2018-02-19 23:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.99 Mbit/s

95th percentile per-packet one-way delay: 87.935 ms

Loss rate: 0.00%

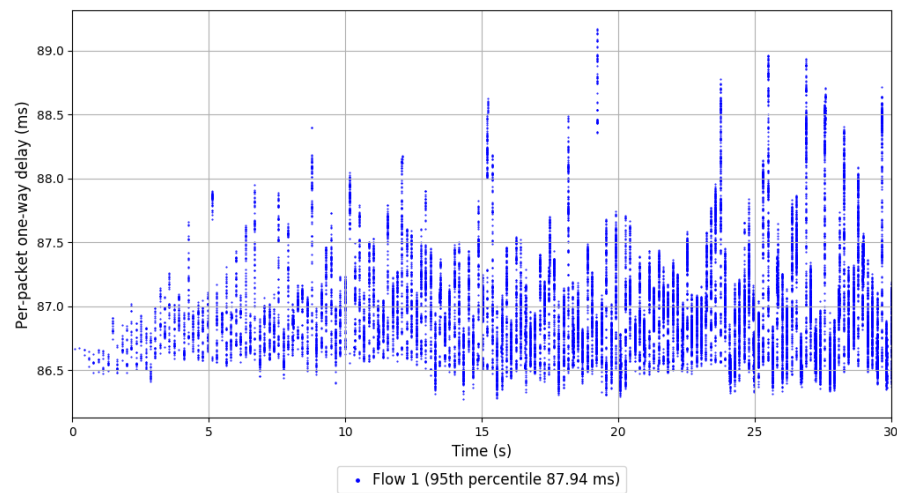
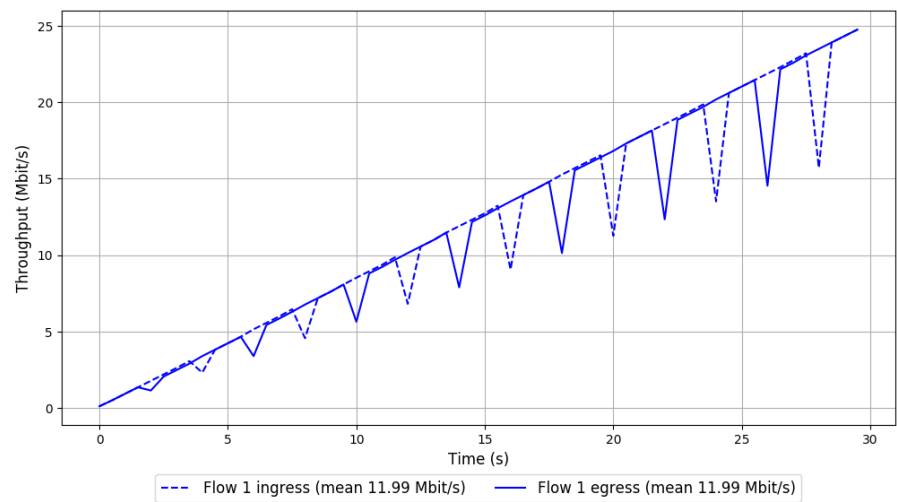
-- Flow 1:

Average throughput: 11.99 Mbit/s

95th percentile per-packet one-way delay: 87.935 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-19 21:03:04

End at: 2018-02-19 21:03:34

# Below is generated by plot.py at 2018-02-19 23:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.51 Mbit/s

95th percentile per-packet one-way delay: 115.158 ms

Loss rate: 0.00%

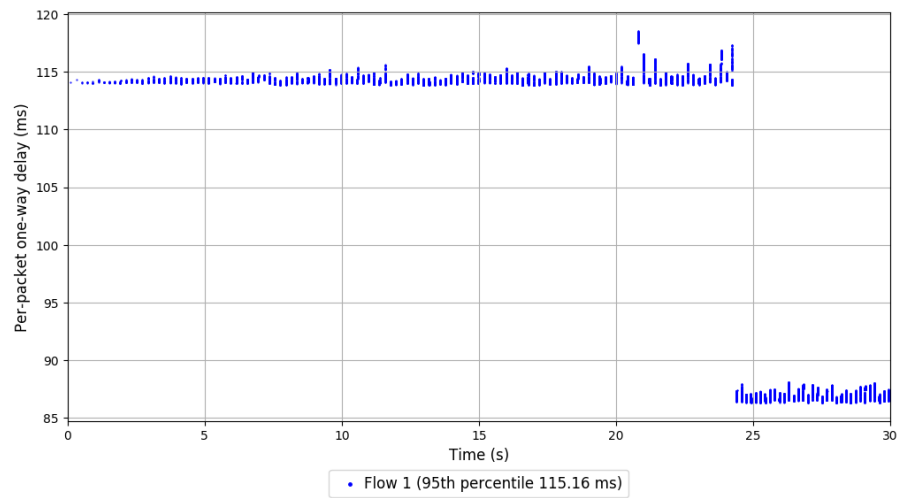
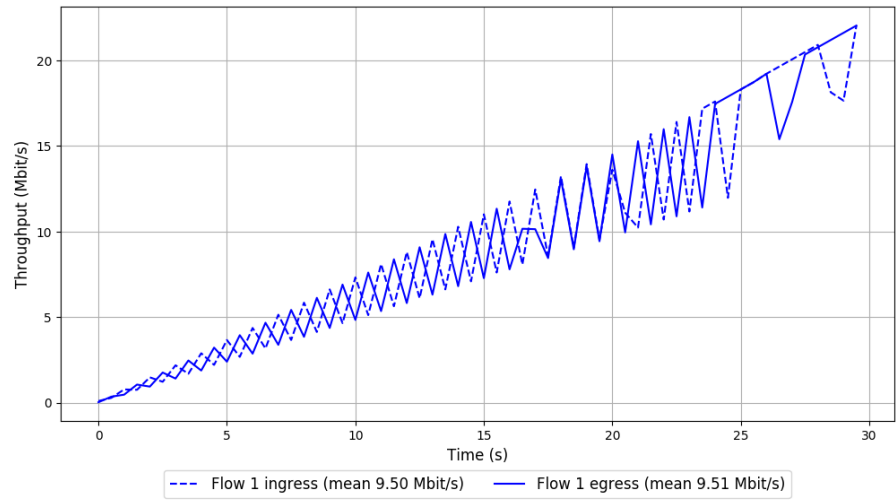
-- Flow 1:

Average throughput: 9.51 Mbit/s

95th percentile per-packet one-way delay: 115.158 ms

Loss rate: 0.00%

## Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-19 21:18:02

End at: 2018-02-19 21:18:32

# Below is generated by plot.py at 2018-02-19 23:35:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 87.772 ms

Loss rate: 0.00%

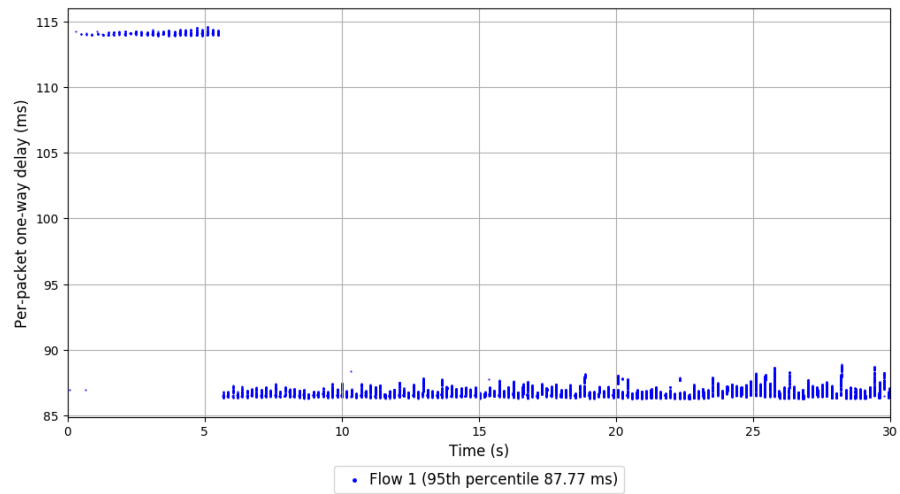
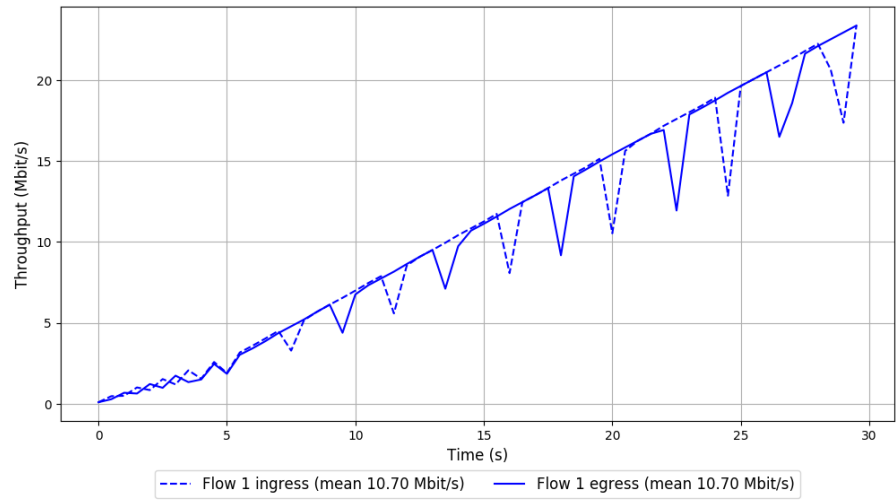
-- Flow 1:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 87.772 ms

Loss rate: 0.00%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-19 21:32:56

End at: 2018-02-19 21:33:26

# Below is generated by plot.py at 2018-02-19 23:35:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 93.082 ms

Loss rate: 0.00%

-- Flow 1:

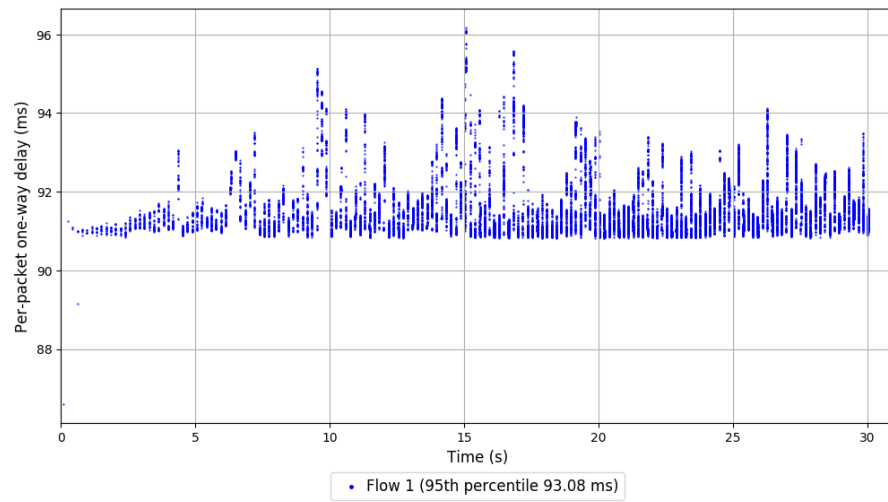
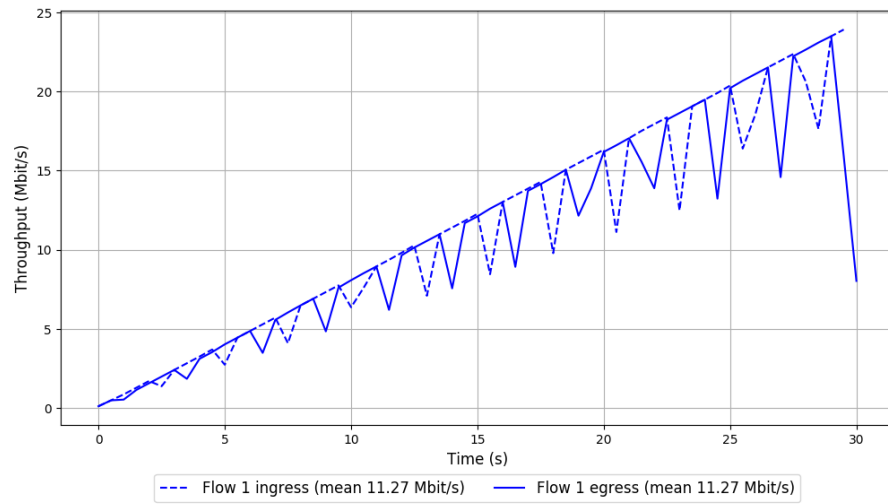
Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 93.082 ms

Loss rate: 0.00%



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



Run 10: Statistics of LEDBAT

Start at: 2018-02-19 21:48:07

End at: 2018-02-19 21:48:37

# Below is generated by plot.py at 2018-02-19 23:35:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.77 Mbit/s

95th percentile per-packet one-way delay: 92.194 ms

Loss rate: 0.00%

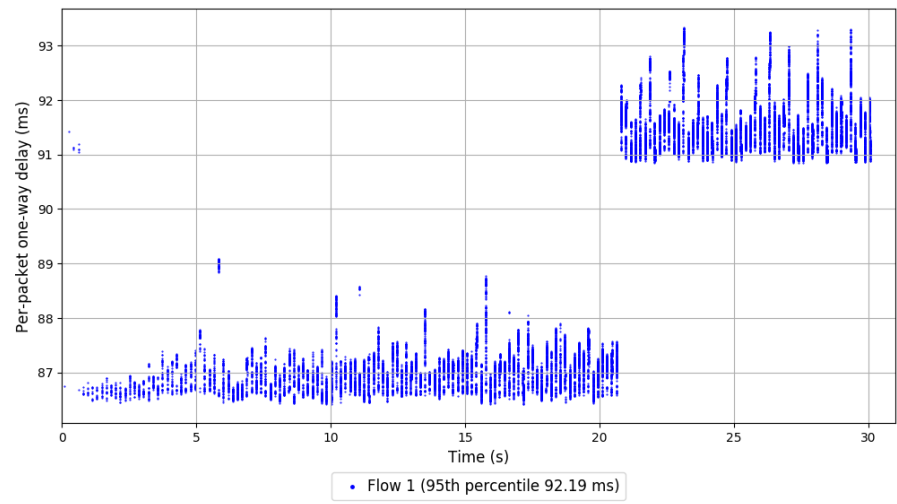
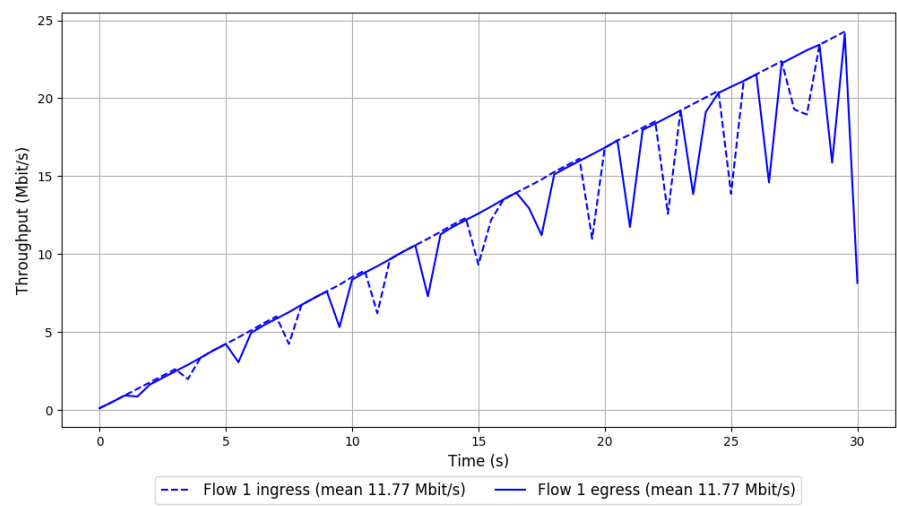
-- Flow 1:

Average throughput: 11.77 Mbit/s

95th percentile per-packet one-way delay: 92.194 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

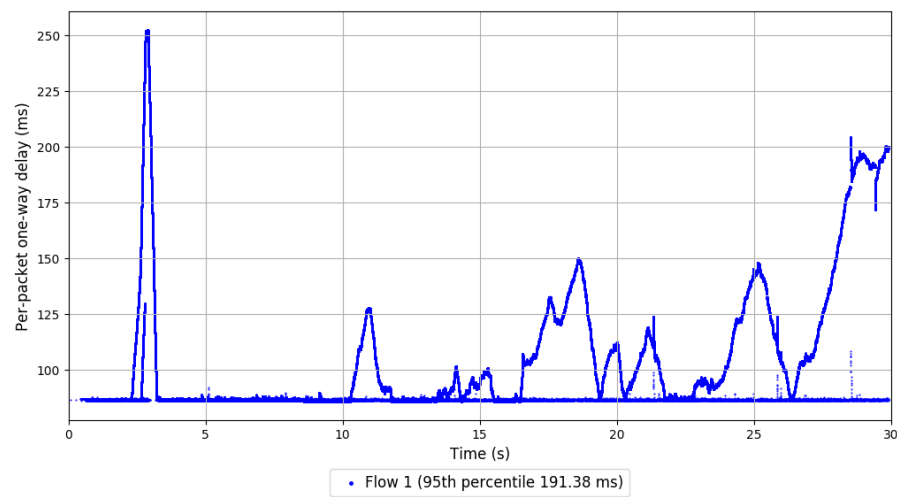
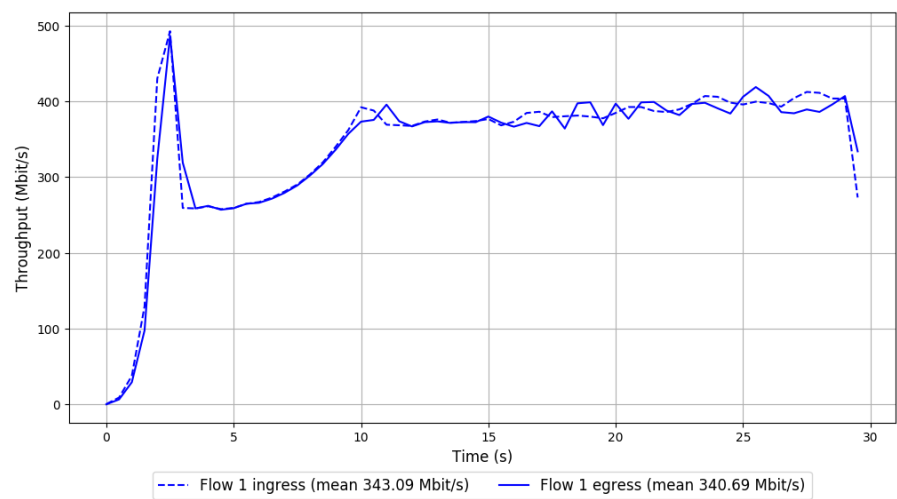


```
Run 1: Statistics of PCC

Start at: 2018-02-19 19:29:39
End at: 2018-02-19 19:30:09

# Below is generated by plot.py at 2018-02-19 23:39:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.69 Mbit/s
95th percentile per-packet one-way delay: 191.376 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 340.69 Mbit/s
95th percentile per-packet one-way delay: 191.376 ms
Loss rate: 0.70%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-19 19:44:49

End at: 2018-02-19 19:45:19

# Below is generated by plot.py at 2018-02-19 23:39:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 328.88 Mbit/s

95th percentile per-packet one-way delay: 127.706 ms

Loss rate: 0.60%

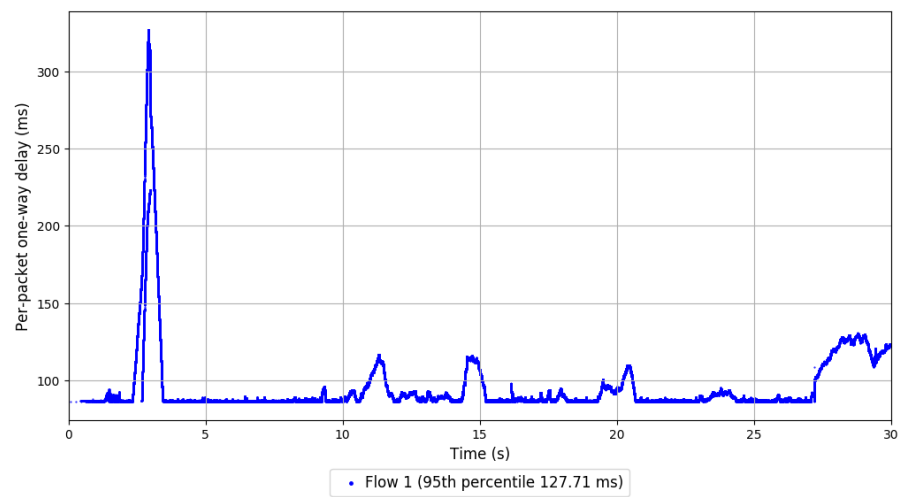
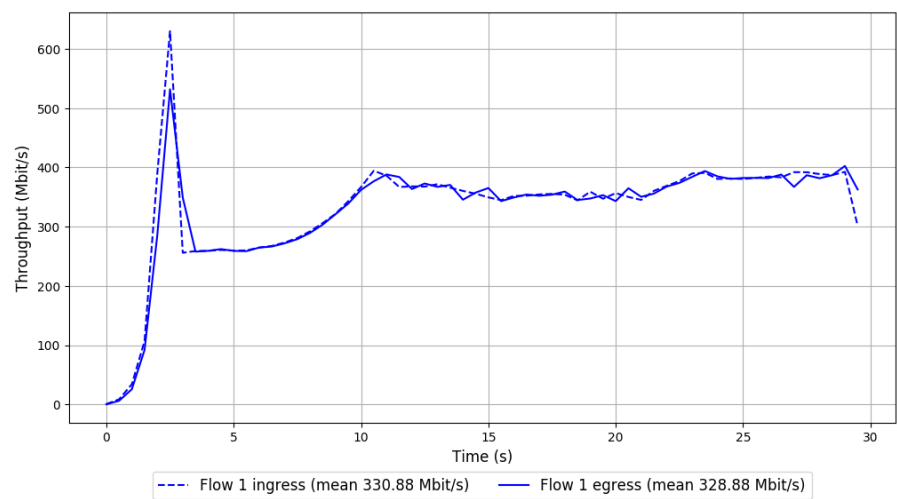
-- Flow 1:

Average throughput: 328.88 Mbit/s

95th percentile per-packet one-way delay: 127.706 ms

Loss rate: 0.60%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-19 20:00:06

End at: 2018-02-19 20:00:36

# Below is generated by plot.py at 2018-02-19 23:39:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 348.61 Mbit/s

95th percentile per-packet one-way delay: 242.949 ms

Loss rate: 0.60%

-- Flow 1:

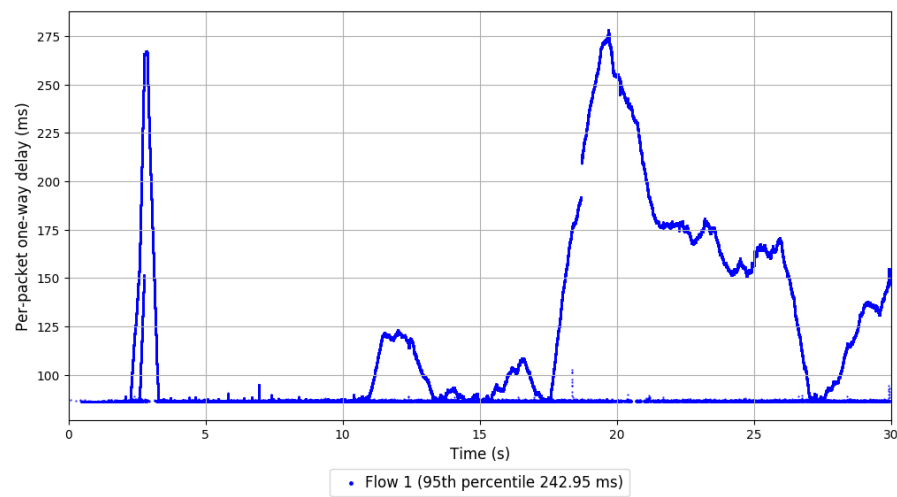
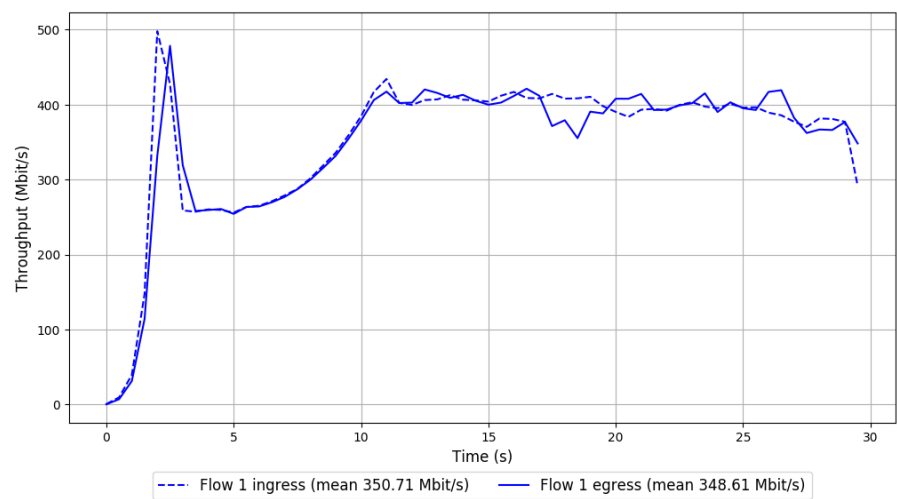
Average throughput: 348.61 Mbit/s

95th percentile per-packet one-way delay: 242.949 ms

Loss rate: 0.60%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-19 20:15:16

End at: 2018-02-19 20:15:46

# Below is generated by plot.py at 2018-02-19 23:39:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 334.20 Mbit/s

95th percentile per-packet one-way delay: 104.983 ms

Loss rate: 0.37%

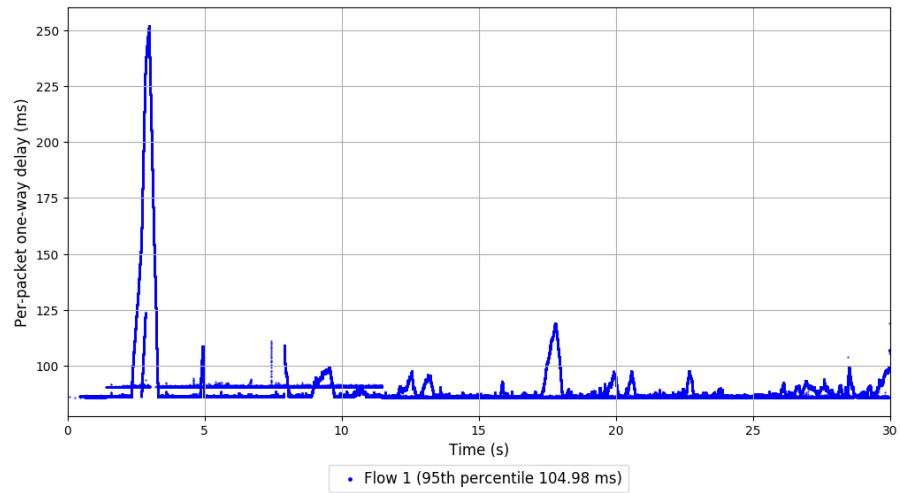
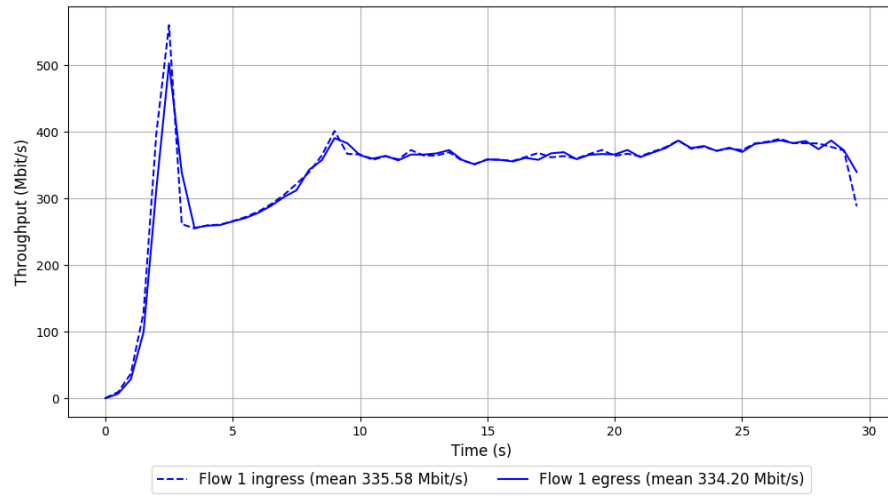
-- Flow 1:

Average throughput: 334.20 Mbit/s

95th percentile per-packet one-way delay: 104.983 ms

Loss rate: 0.37%

#### Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-19 20:30:51

End at: 2018-02-19 20:31:21

# Below is generated by plot.py at 2018-02-19 23:39:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 331.83 Mbit/s

95th percentile per-packet one-way delay: 127.661 ms

Loss rate: 0.31%

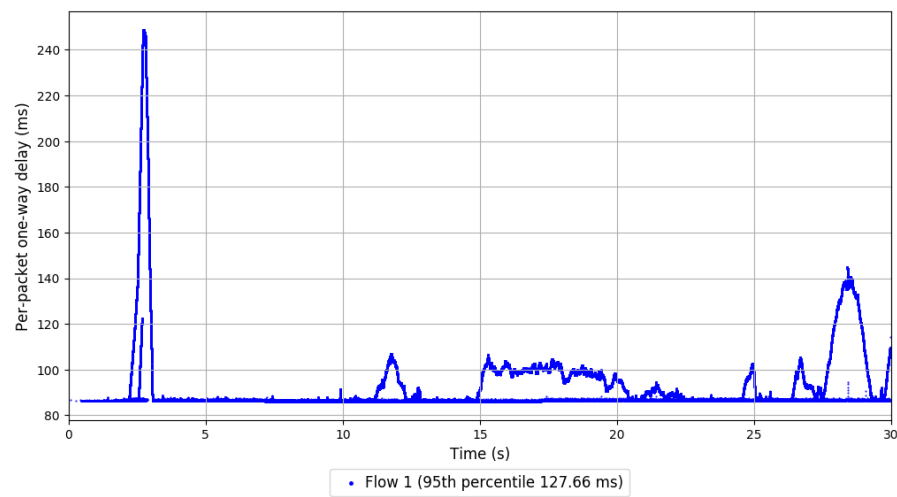
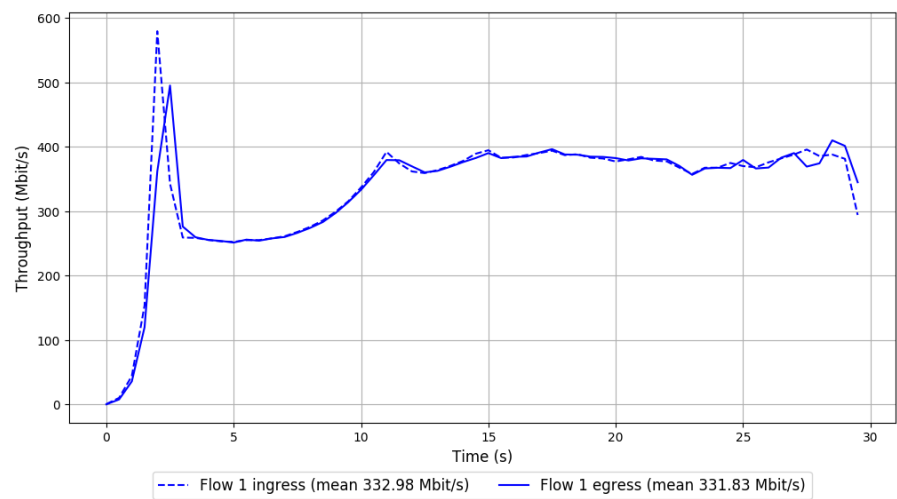
-- Flow 1:

Average throughput: 331.83 Mbit/s

95th percentile per-packet one-way delay: 127.661 ms

Loss rate: 0.31%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-19 20:46:01

End at: 2018-02-19 20:46:31

# Below is generated by plot.py at 2018-02-19 23:40:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 331.52 Mbit/s

95th percentile per-packet one-way delay: 252.712 ms

Loss rate: 0.64%

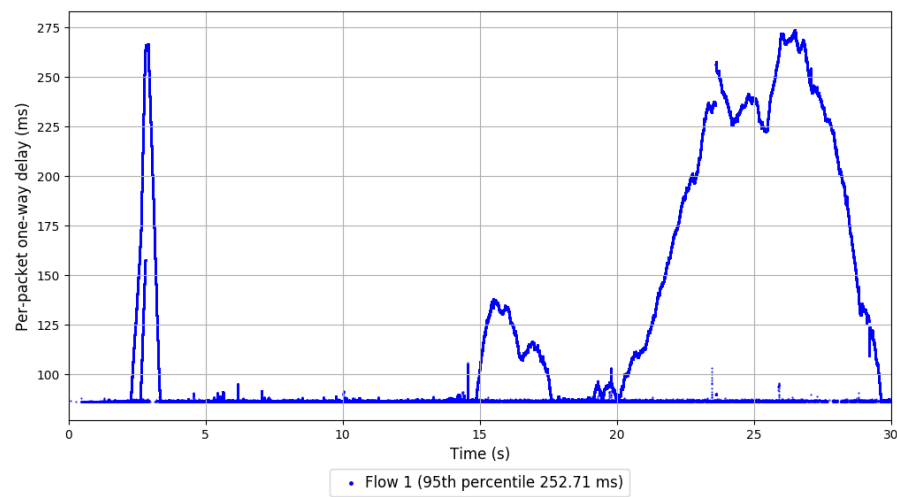
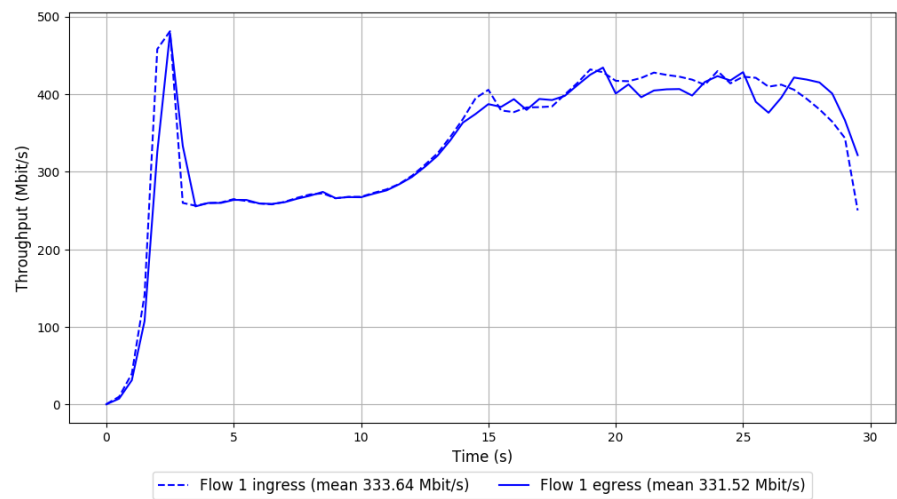
-- Flow 1:

Average throughput: 331.52 Mbit/s

95th percentile per-packet one-way delay: 252.712 ms

Loss rate: 0.64%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-19 21:01:23

End at: 2018-02-19 21:01:53

# Below is generated by plot.py at 2018-02-19 23:40:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 305.81 Mbit/s

95th percentile per-packet one-way delay: 191.789 ms

Loss rate: 0.58%

-- Flow 1:

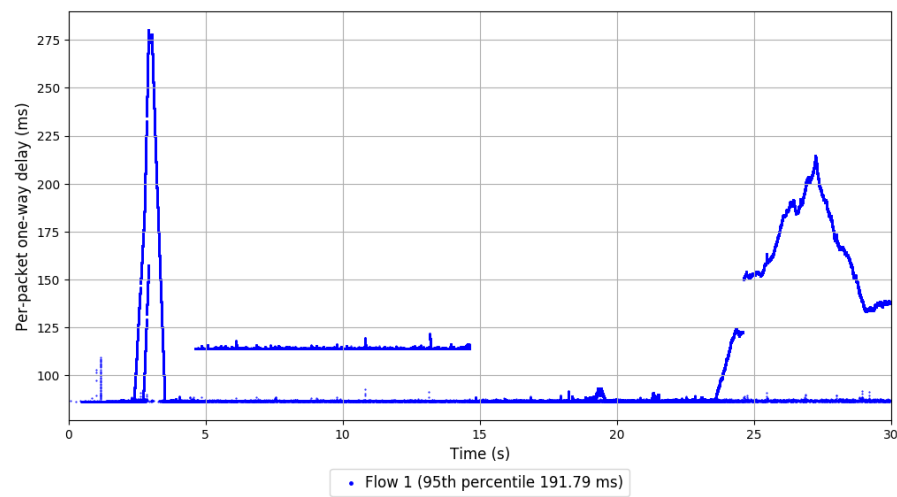
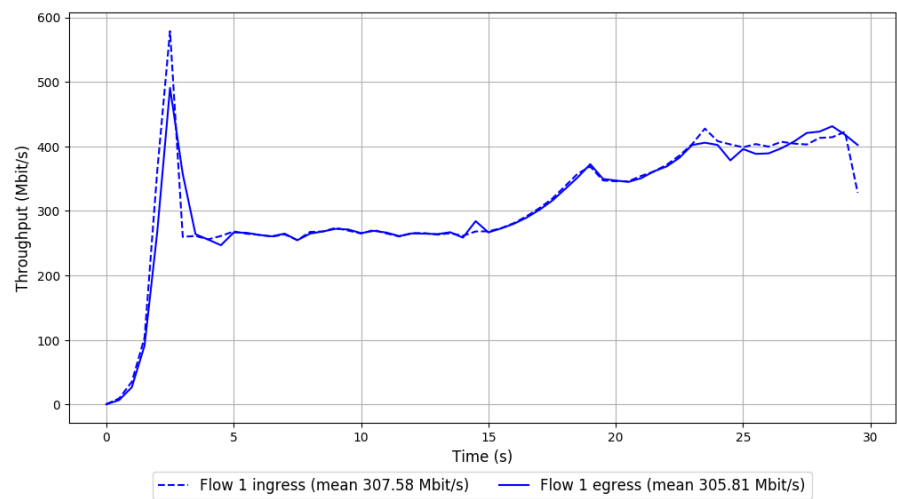
Average throughput: 305.81 Mbit/s

95th percentile per-packet one-way delay: 191.789 ms

Loss rate: 0.58%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-19 21:16:20

End at: 2018-02-19 21:16:50

# Below is generated by plot.py at 2018-02-19 23:41:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 332.54 Mbit/s

95th percentile per-packet one-way delay: 164.086 ms

Loss rate: 0.36%

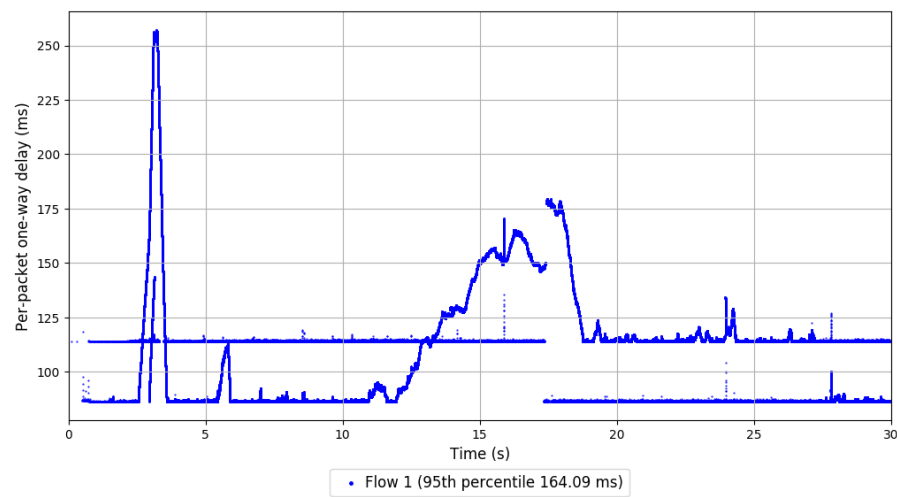
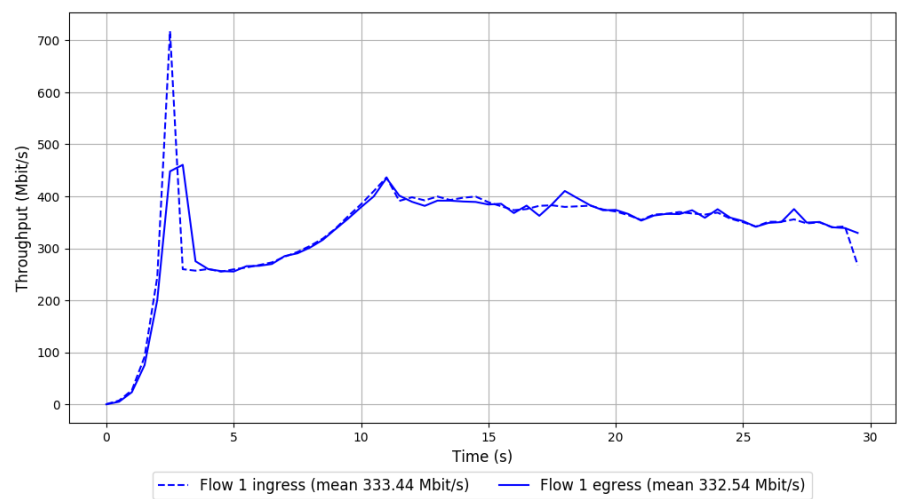
-- Flow 1:

Average throughput: 332.54 Mbit/s

95th percentile per-packet one-way delay: 164.086 ms

Loss rate: 0.36%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-19 21:31:15

End at: 2018-02-19 21:31:45

# Below is generated by plot.py at 2018-02-19 23:44:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 305.01 Mbit/s

95th percentile per-packet one-way delay: 114.630 ms

Loss rate: 0.29%

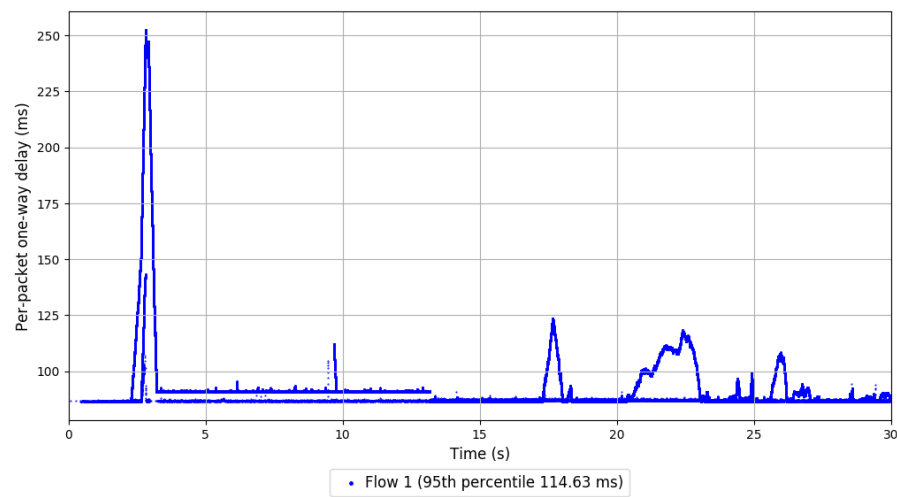
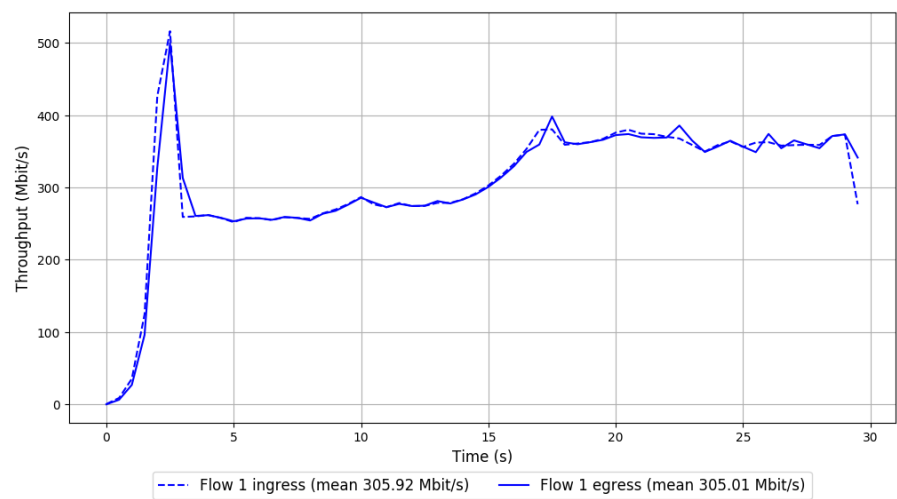
-- Flow 1:

Average throughput: 305.01 Mbit/s

95th percentile per-packet one-way delay: 114.630 ms

Loss rate: 0.29%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-19 21:46:25

End at: 2018-02-19 21:46:55

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 317.47 Mbit/s

95th percentile per-packet one-way delay: 108.003 ms

Loss rate: 0.37%

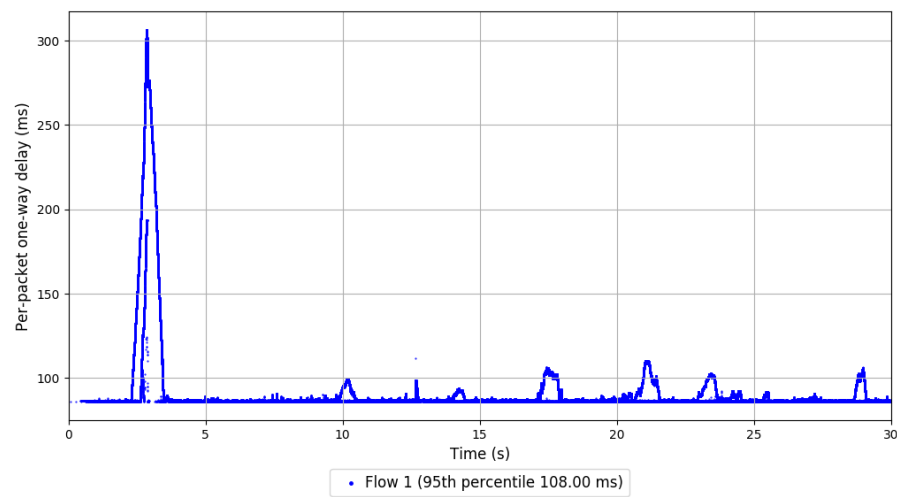
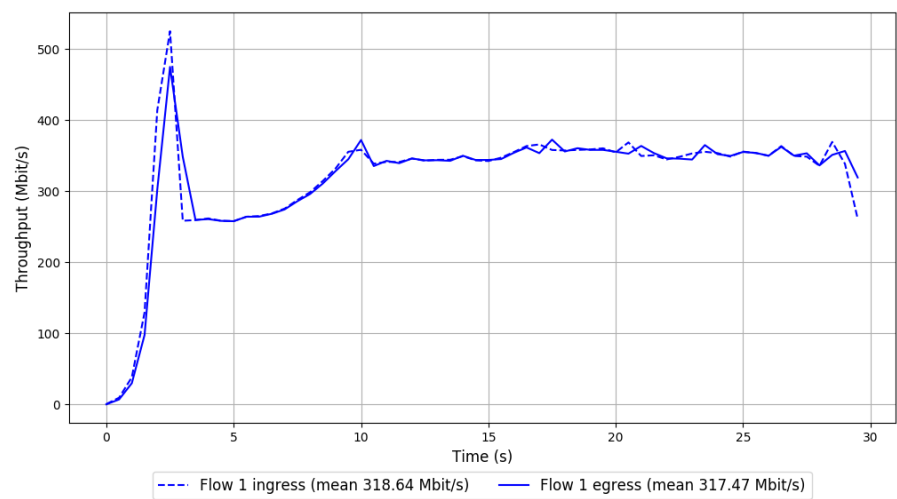
-- Flow 1:

Average throughput: 317.47 Mbit/s

95th percentile per-packet one-way delay: 108.003 ms

Loss rate: 0.37%

Run 10: Report of PCC — Data Link



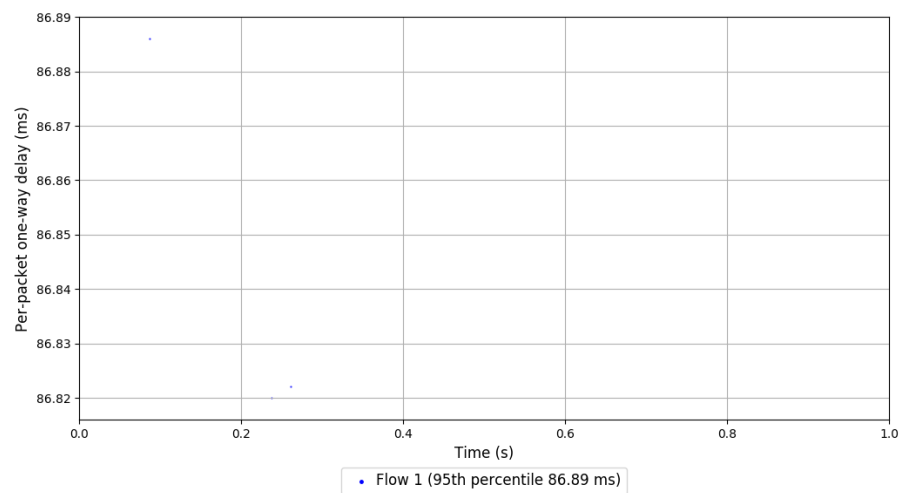
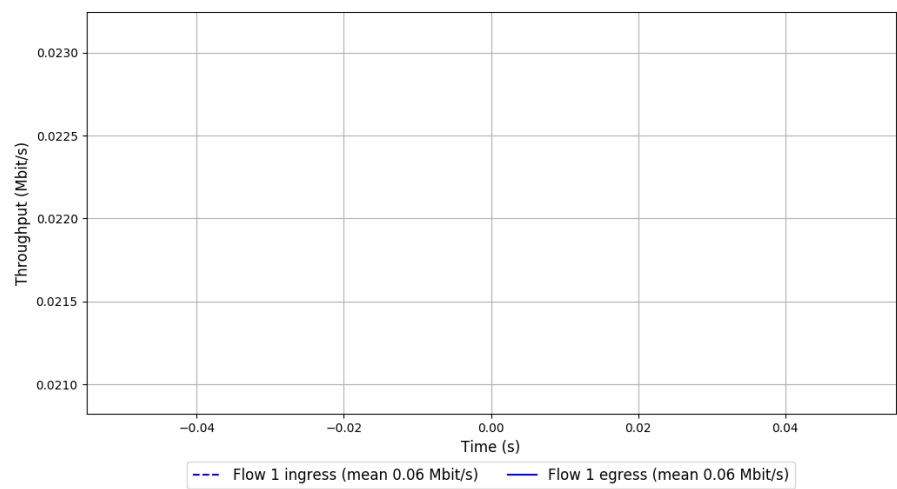
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-19 19:24:39

End at: 2018-02-19 19:25:09



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-19 19:39:33

End at: 2018-02-19 19:40:03

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.64 Mbit/s

95th percentile per-packet one-way delay: 86.834 ms

Loss rate: 0.00%

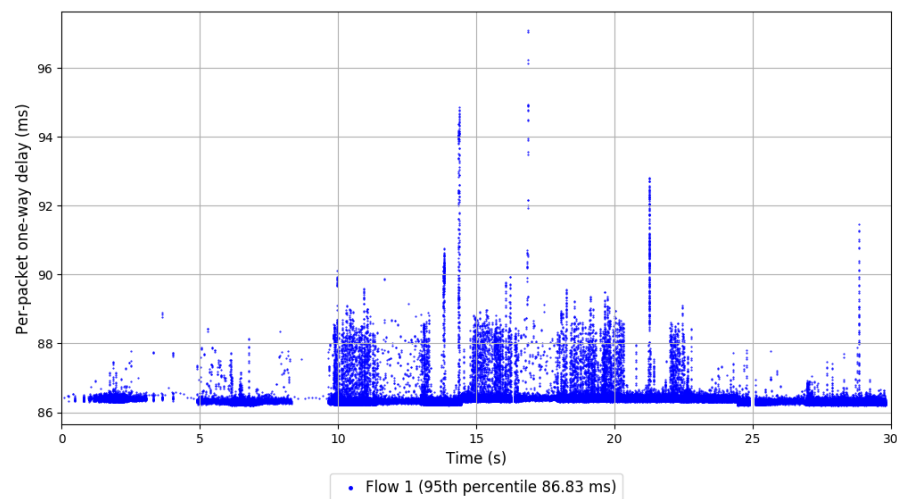
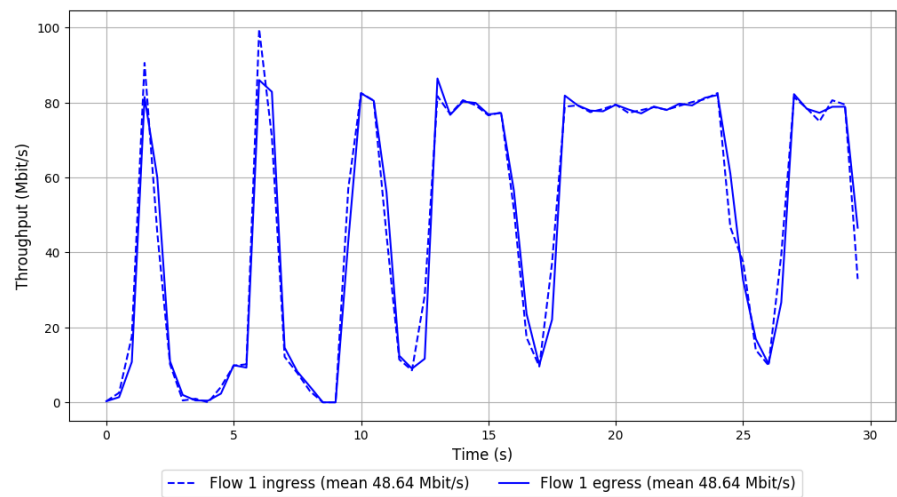
-- Flow 1:

Average throughput: 48.64 Mbit/s

95th percentile per-packet one-way delay: 86.834 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-19 19:54:48

End at: 2018-02-19 19:55:18

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.10 Mbit/s

95th percentile per-packet one-way delay: 86.364 ms

Loss rate: 0.00%

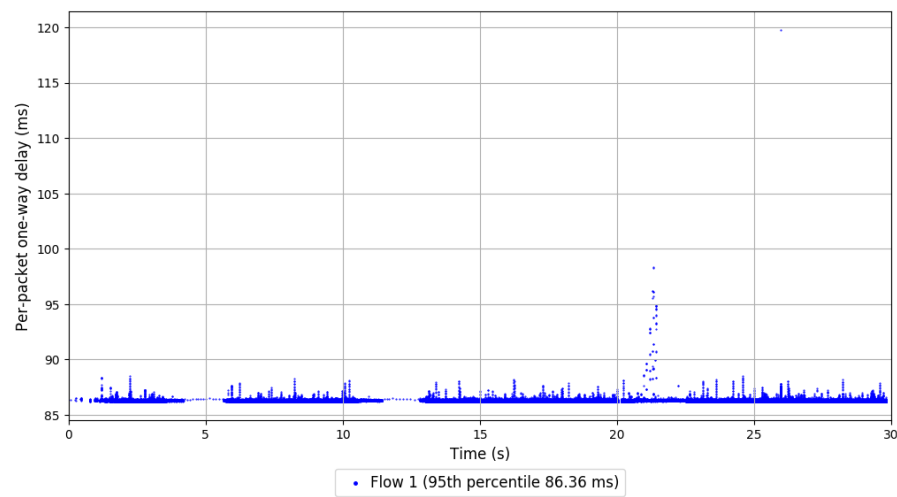
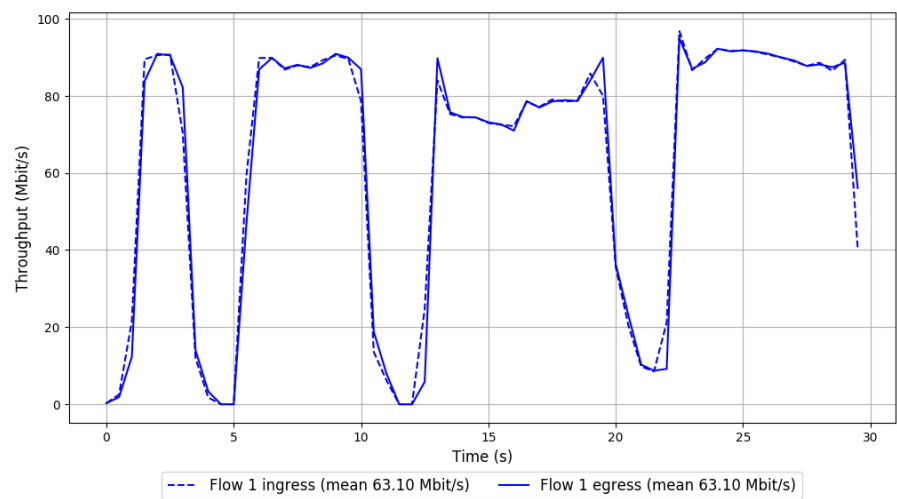
-- Flow 1:

Average throughput: 63.10 Mbit/s

95th percentile per-packet one-way delay: 86.364 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-19 20:10:02

End at: 2018-02-19 20:10:32

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.41 Mbit/s

95th percentile per-packet one-way delay: 86.306 ms

Loss rate: 0.00%

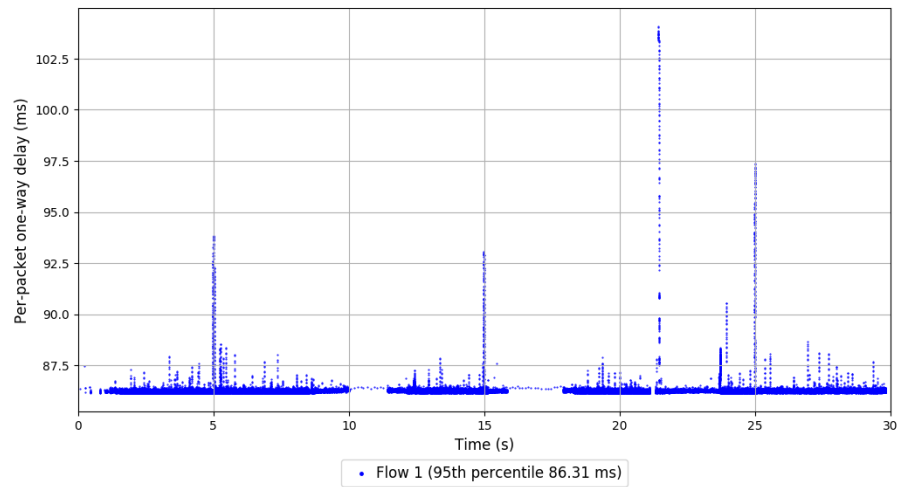
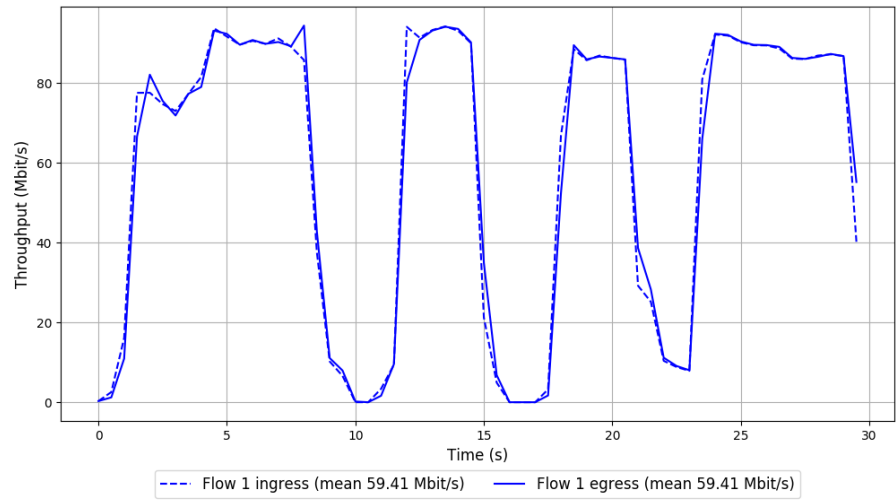
-- Flow 1:

Average throughput: 59.41 Mbit/s

95th percentile per-packet one-way delay: 86.306 ms

Loss rate: 0.00%

#### Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-19 20:25:29

End at: 2018-02-19 20:25:59

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.26 Mbit/s

95th percentile per-packet one-way delay: 90.499 ms

Loss rate: 0.00%

-- Flow 1:

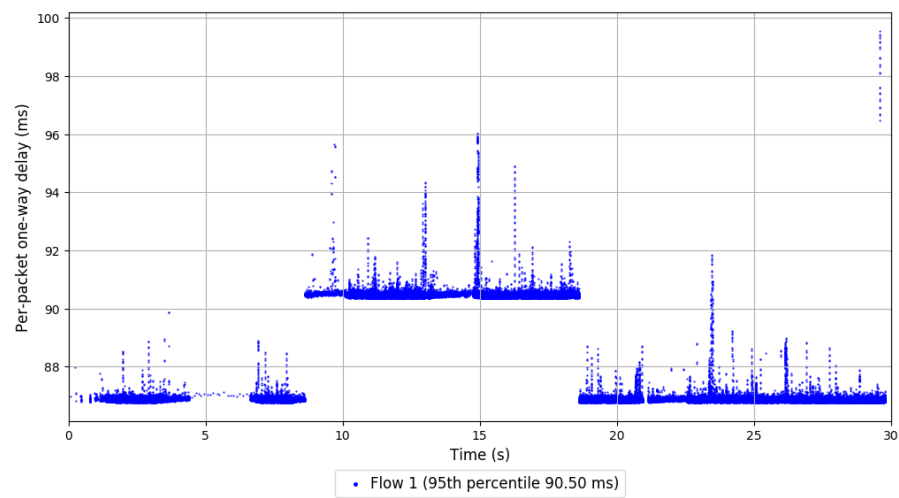
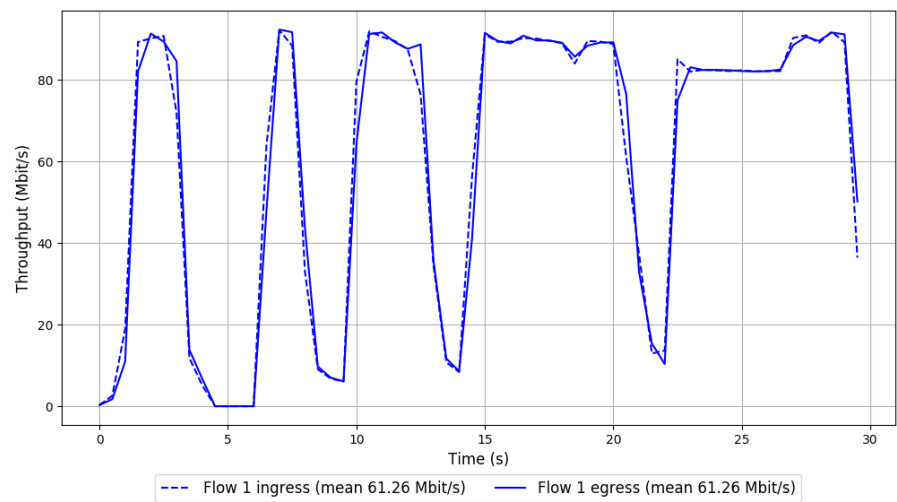
Average throughput: 61.26 Mbit/s

95th percentile per-packet one-way delay: 90.499 ms

Loss rate: 0.00%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-19 20:40:58

End at: 2018-02-19 20:41:28

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.29 Mbit/s

95th percentile per-packet one-way delay: 90.612 ms

Loss rate: 0.00%

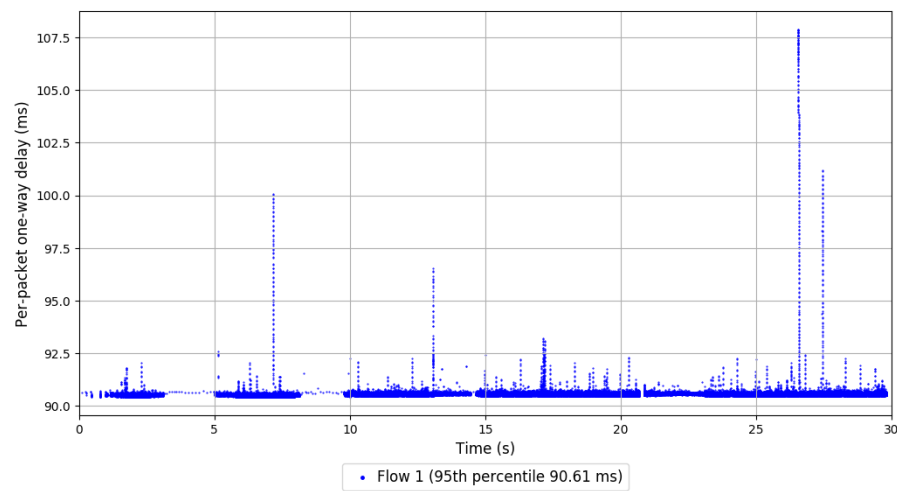
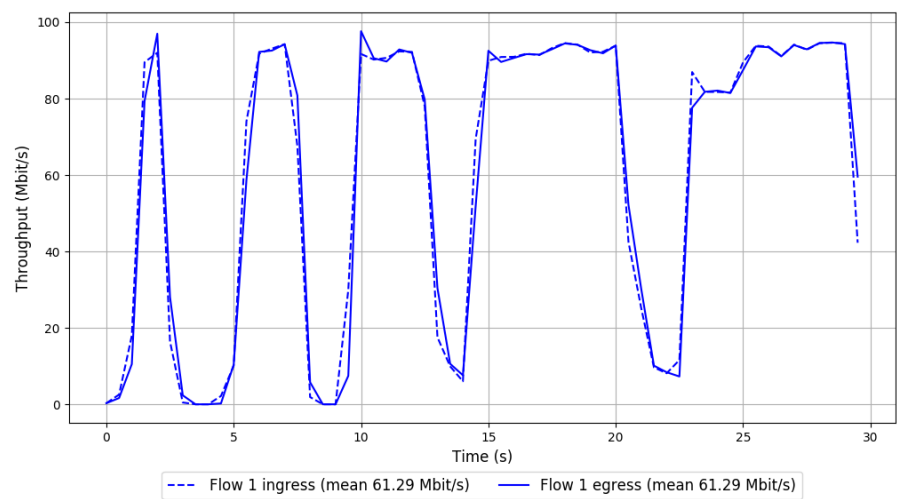
-- Flow 1:

Average throughput: 61.29 Mbit/s

95th percentile per-packet one-way delay: 90.612 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-19 20:56:07

End at: 2018-02-19 20:56:37

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 53.65 Mbit/s

95th percentile per-packet one-way delay: 86.924 ms

Loss rate: 0.00%

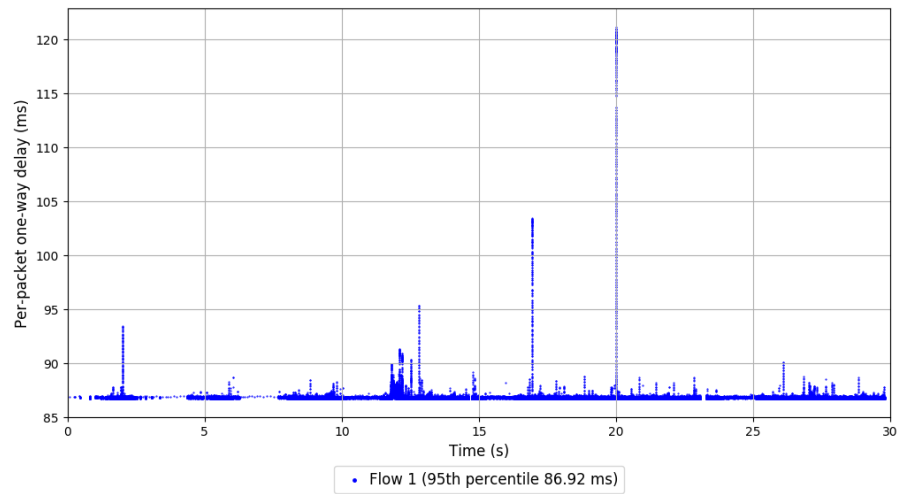
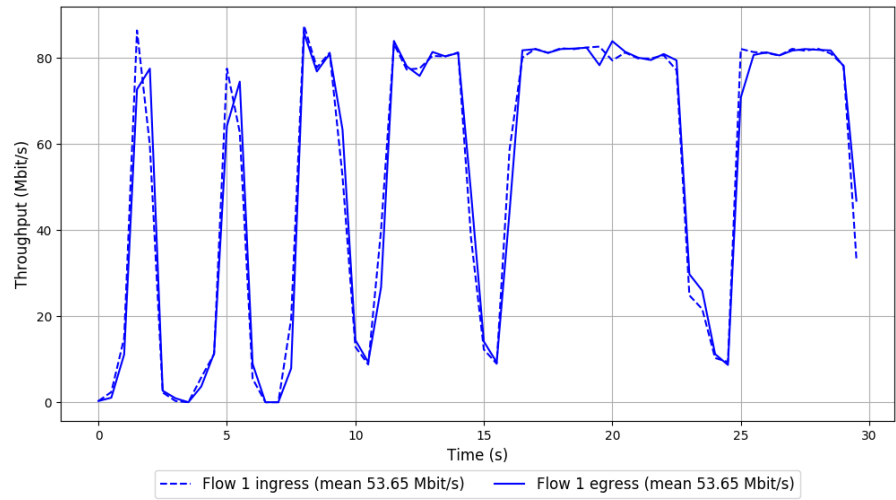
-- Flow 1:

Average throughput: 53.65 Mbit/s

95th percentile per-packet one-way delay: 86.924 ms

Loss rate: 0.00%

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



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-19 21:11:06

End at: 2018-02-19 21:11:36

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 86.432 ms

Loss rate: 0.00%

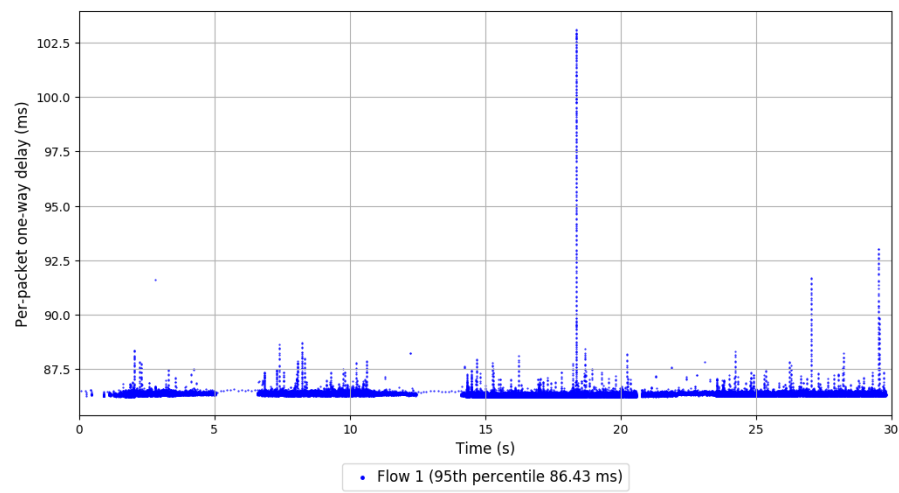
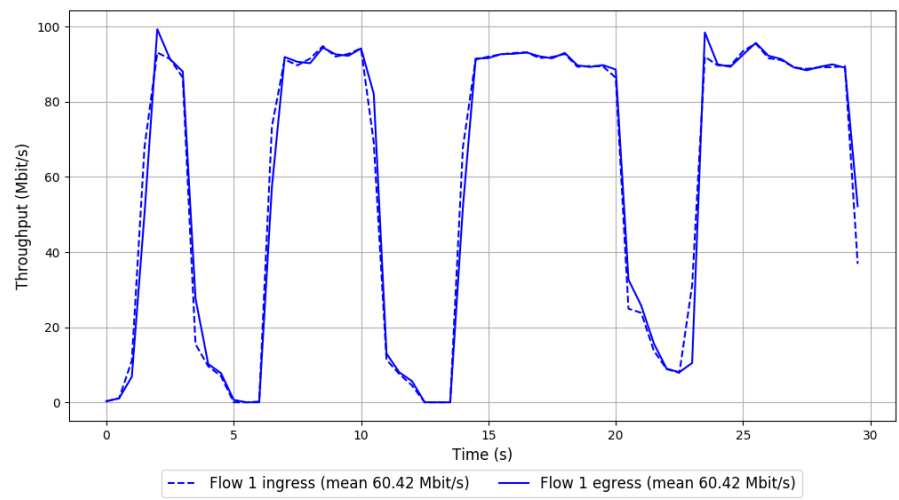
-- Flow 1:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 86.432 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-19 21:26:17

End at: 2018-02-19 21:26:47

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.04 Mbit/s

95th percentile per-packet one-way delay: 113.992 ms

Loss rate: 0.00%

-- Flow 1:

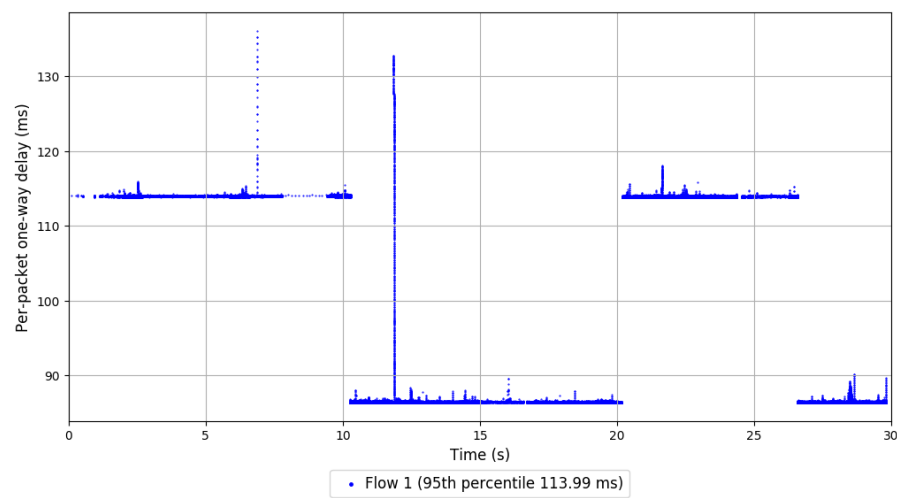
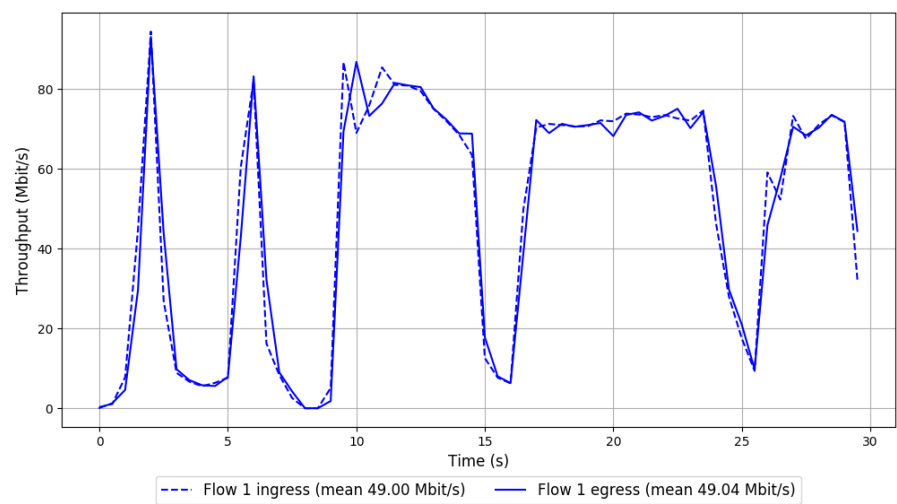
Average throughput: 49.04 Mbit/s

95th percentile per-packet one-way delay: 113.992 ms

Loss rate: 0.00%



Run 9: Report of QUIC Cubic — Data Link

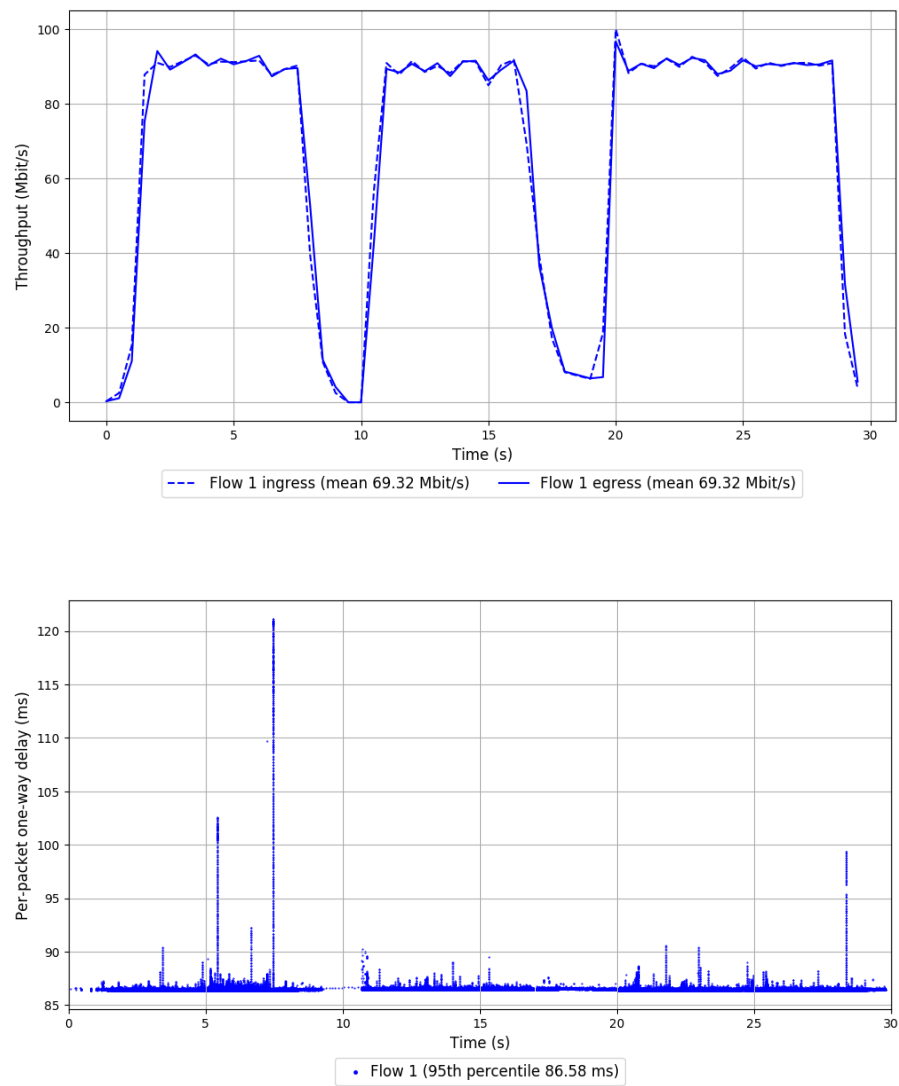


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-19 21:41:18
End at: 2018-02-19 21:41:48

# Below is generated by plot.py at 2018-02-19 23:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.32 Mbit/s
95th percentile per-packet one-way delay: 86.578 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.32 Mbit/s
95th percentile per-packet one-way delay: 86.578 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

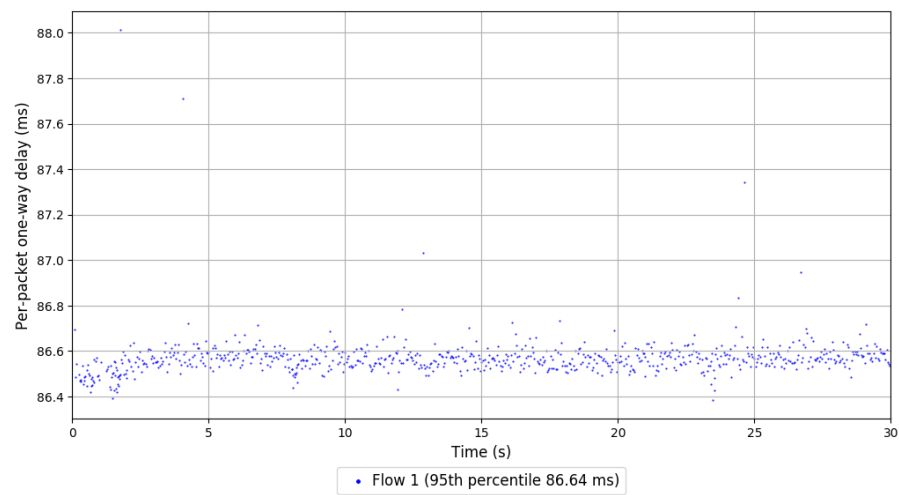
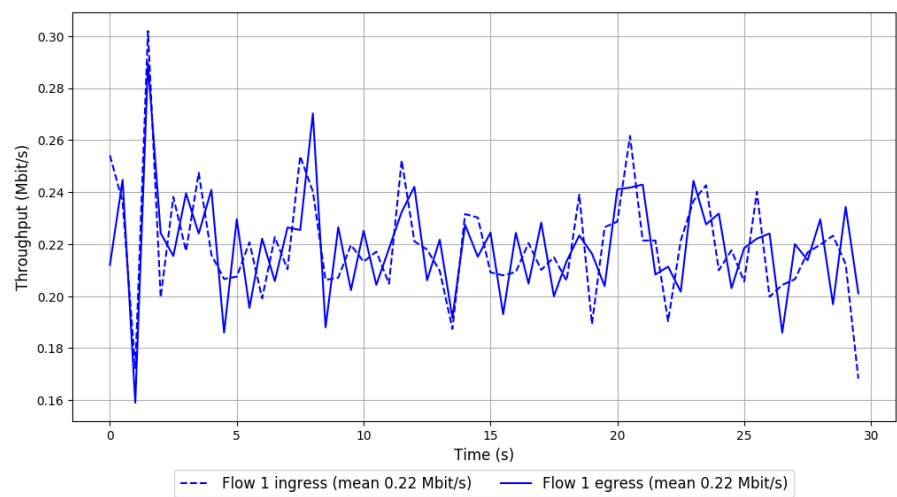


```
Run 1: Statistics of SCReAM

Start at: 2018-02-19 19:20:36
End at: 2018-02-19 19:21:06

# Below is generated by plot.py at 2018-02-19 23:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.642 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.642 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

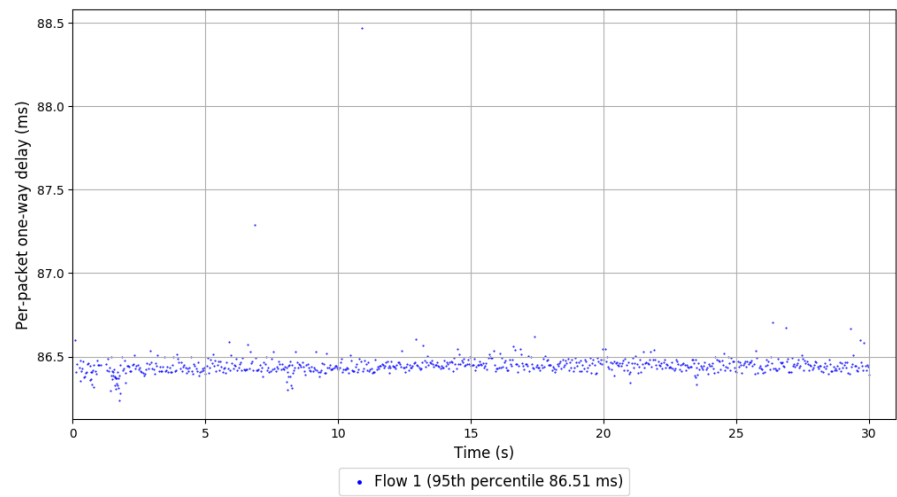
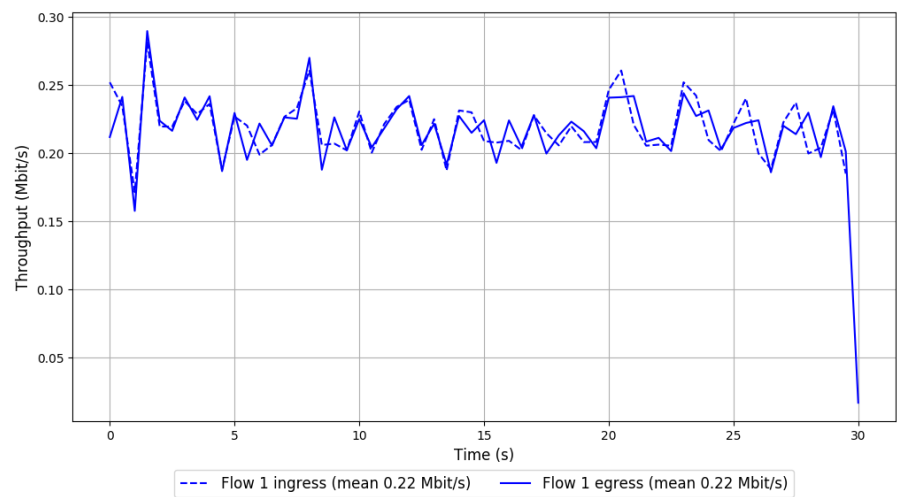


```
Run 2: Statistics of SCReAM

Start at: 2018-02-19 19:35:26
End at: 2018-02-19 19:35:56

# Below is generated by plot.py at 2018-02-19 23:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.510 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.510 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-19 19:50:35

End at: 2018-02-19 19:51:05

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.487 ms

Loss rate: 0.00%

-- Flow 1:

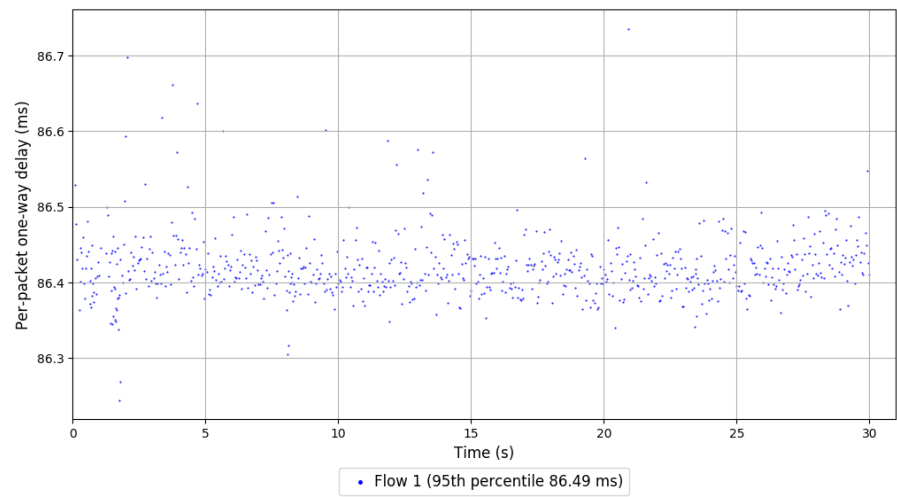
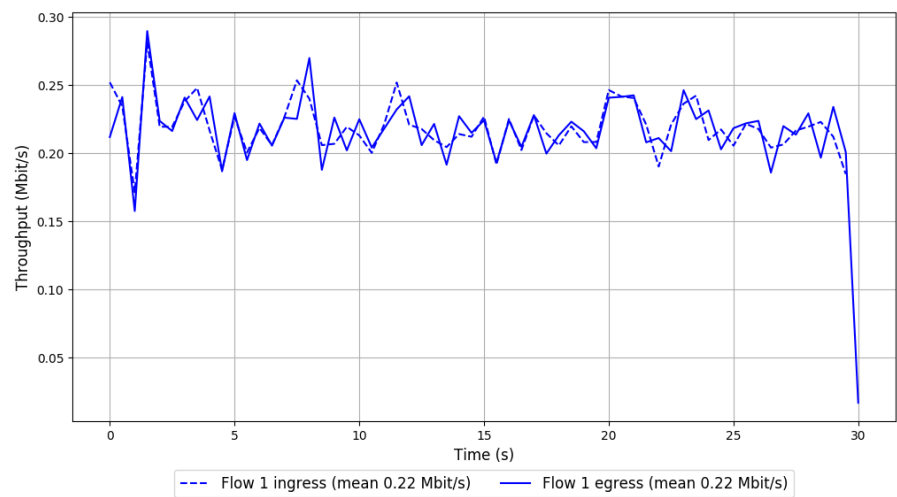
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.487 ms

Loss rate: 0.00%



Run 3: Report of SReAM — Data Link

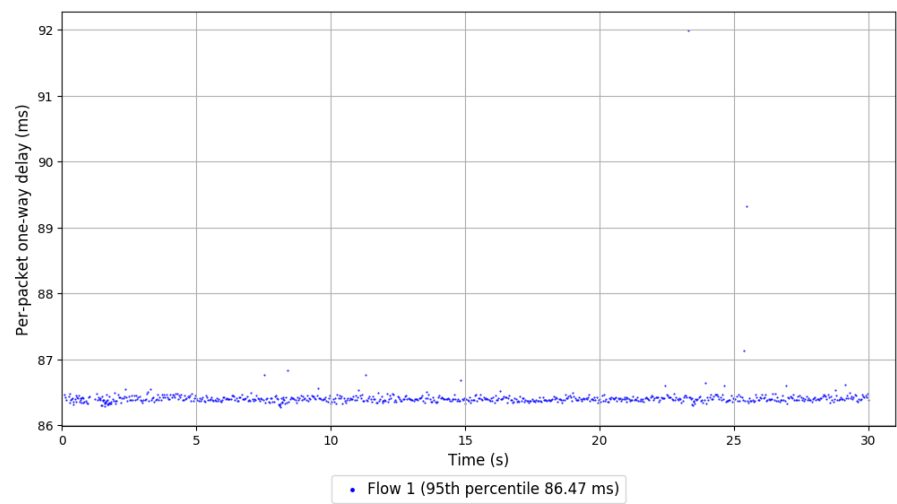
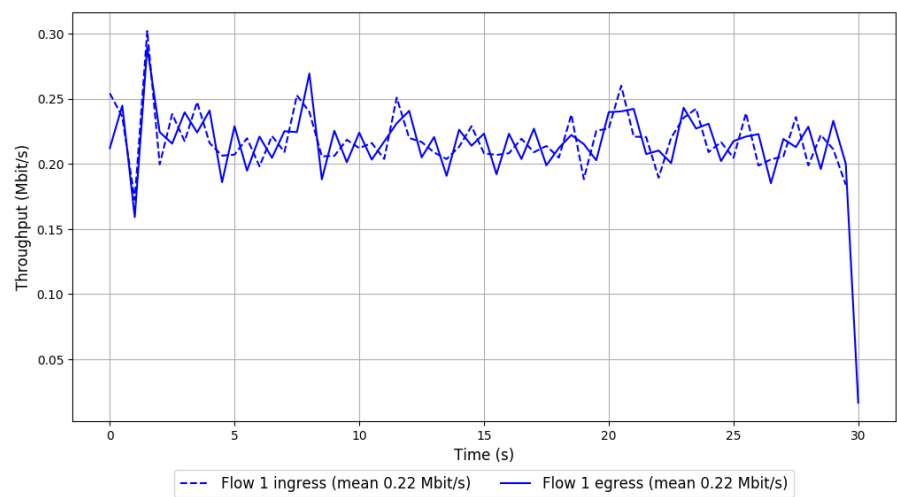


```
Run 4: Statistics of SCReAM

Start at: 2018-02-19 20:06:01
End at: 2018-02-19 20:06:31

# Below is generated by plot.py at 2018-02-19 23:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.475 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.475 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-19 20:21:14

End at: 2018-02-19 20:21:44

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.869 ms

Loss rate: 0.00%

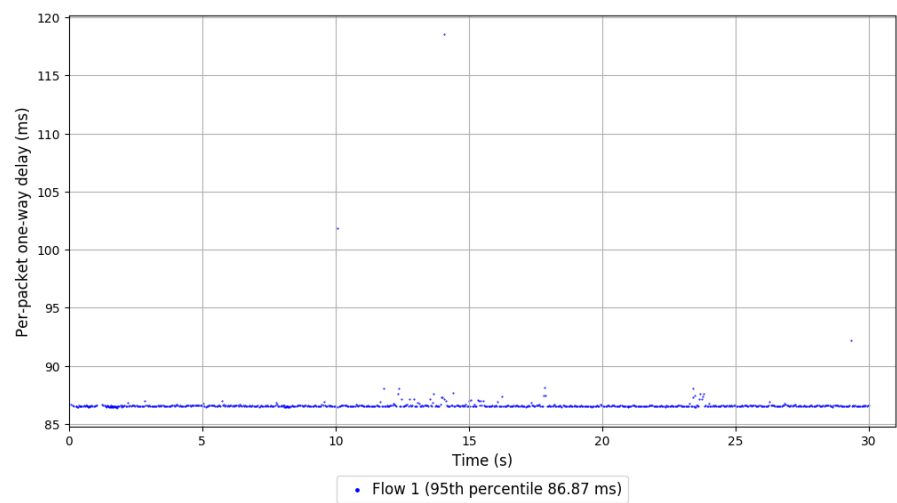
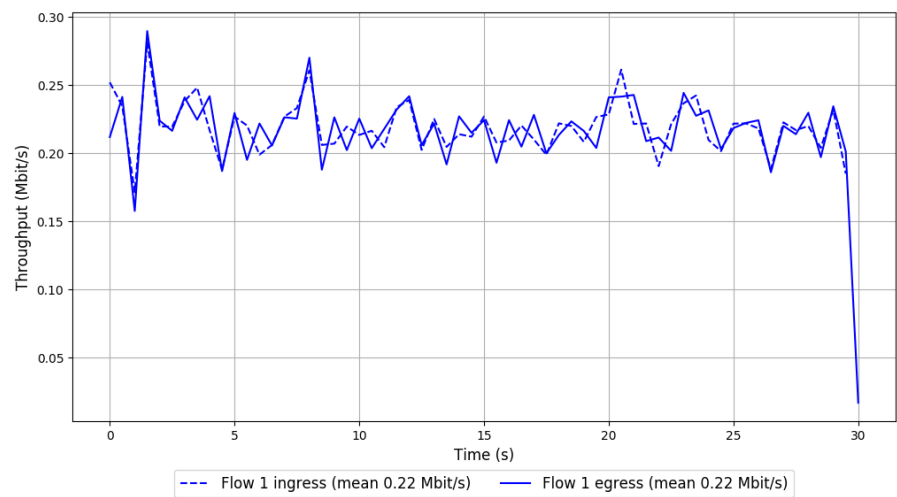
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.869 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-19 20:36:45

End at: 2018-02-19 20:37:15

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.591 ms

Loss rate: 0.00%

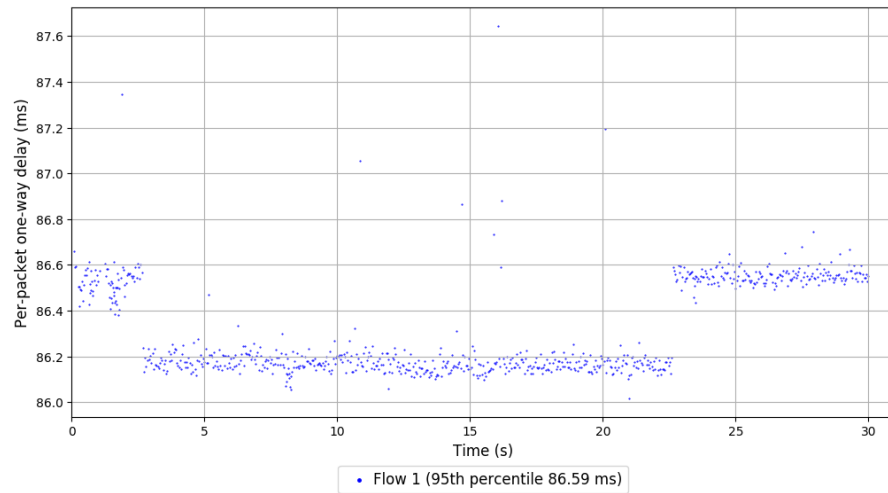
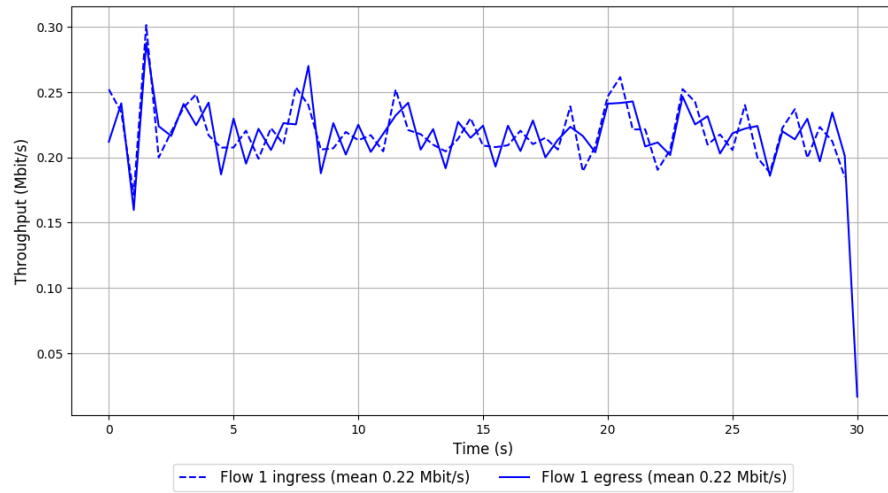
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.591 ms

Loss rate: 0.00%

## Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-19 20:51:58

End at: 2018-02-19 20:52:28

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.954 ms

Loss rate: 0.00%

-- Flow 1:

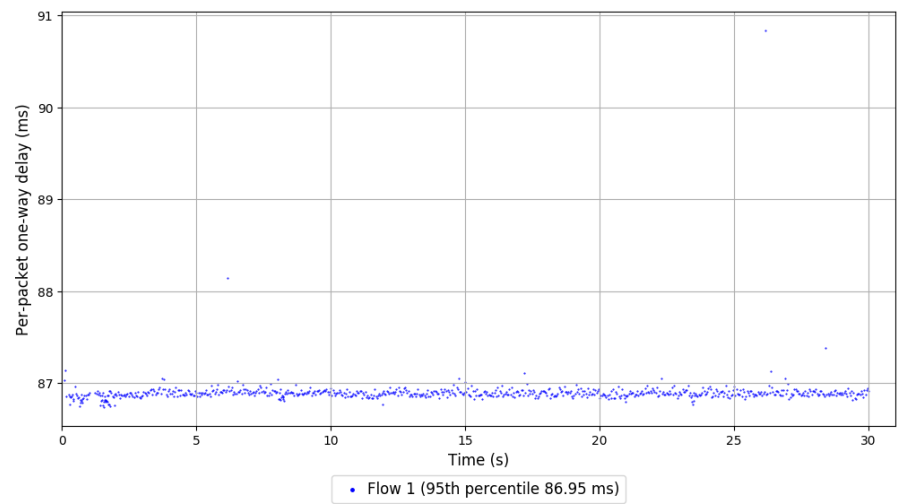
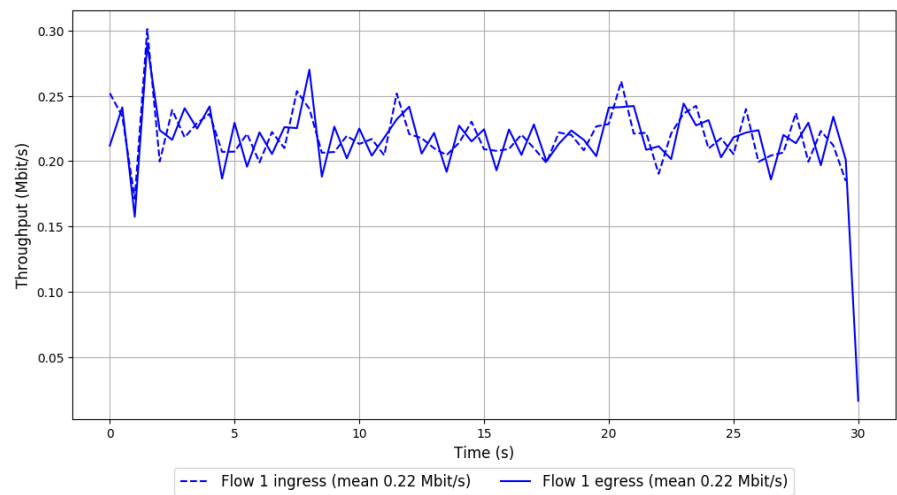
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.954 ms

Loss rate: 0.00%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-19 21:07:01

End at: 2018-02-19 21:07:31

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.613 ms

Loss rate: 0.00%

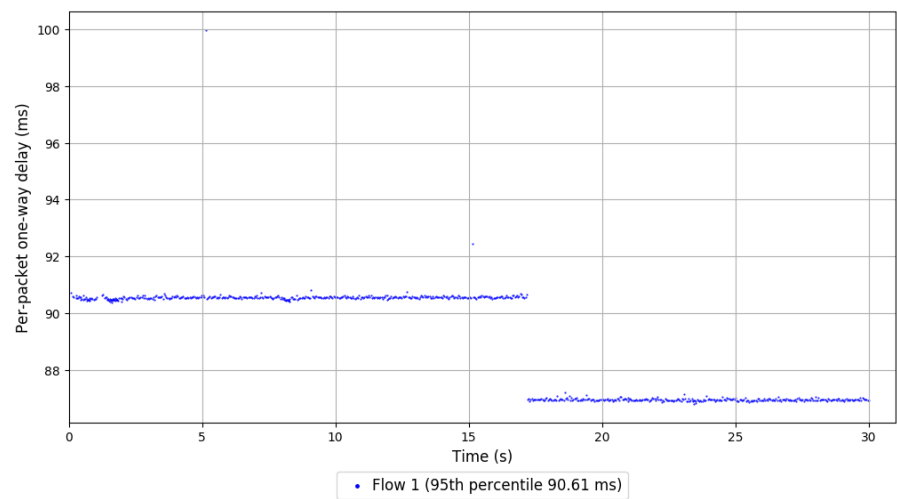
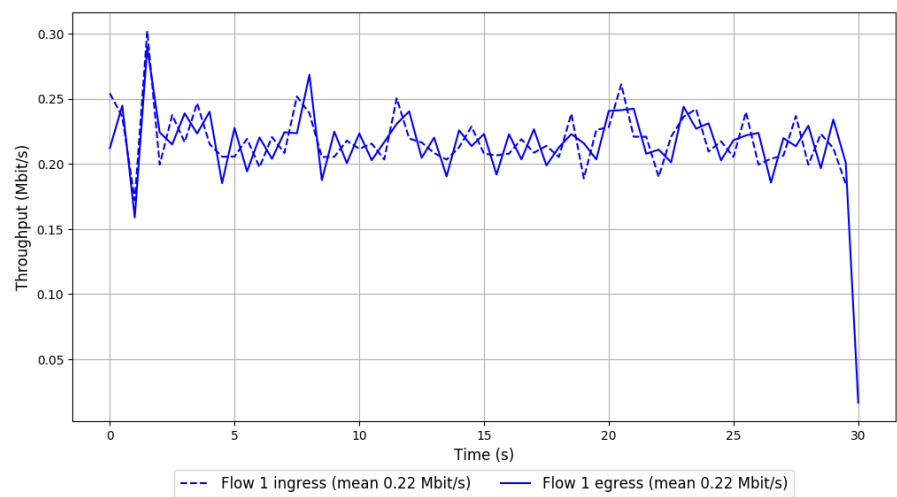
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.613 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-19 21:22:06

End at: 2018-02-19 21:22:36

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.360 ms

Loss rate: 0.13%

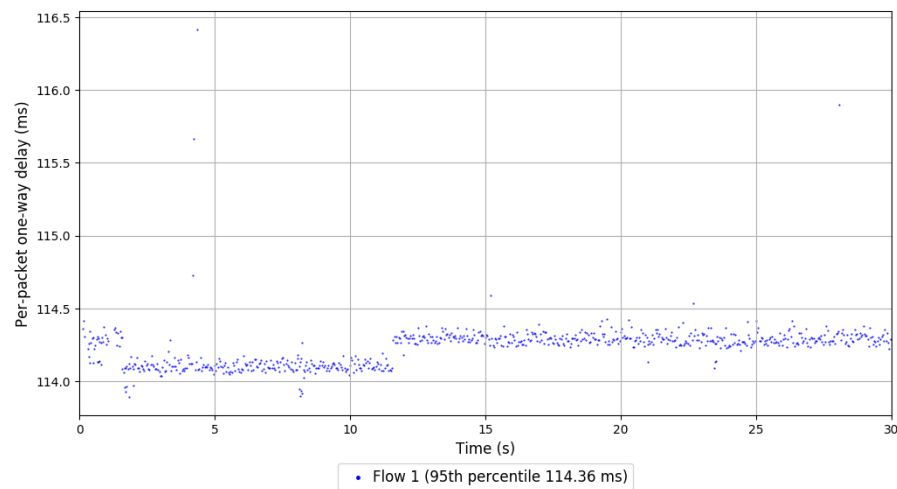
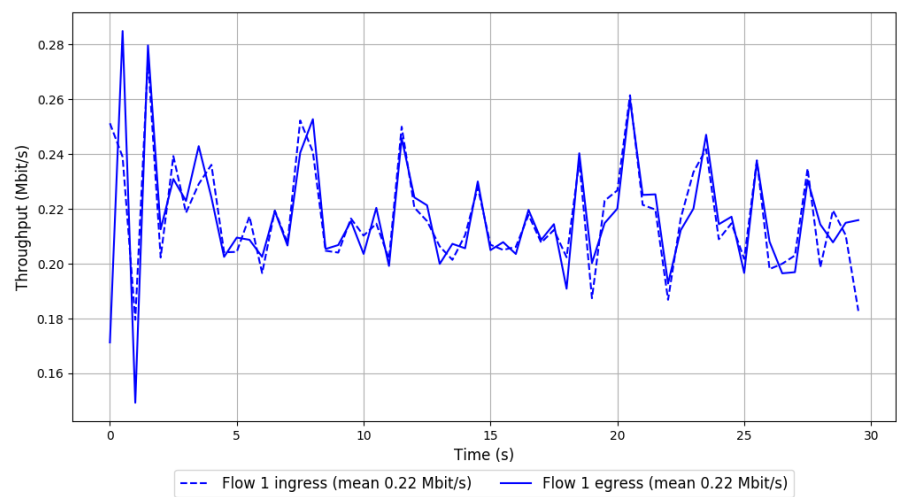
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.360 ms

Loss rate: 0.13%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-19 21:37:11

End at: 2018-02-19 21:37:41

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.688 ms

Loss rate: 0.00%

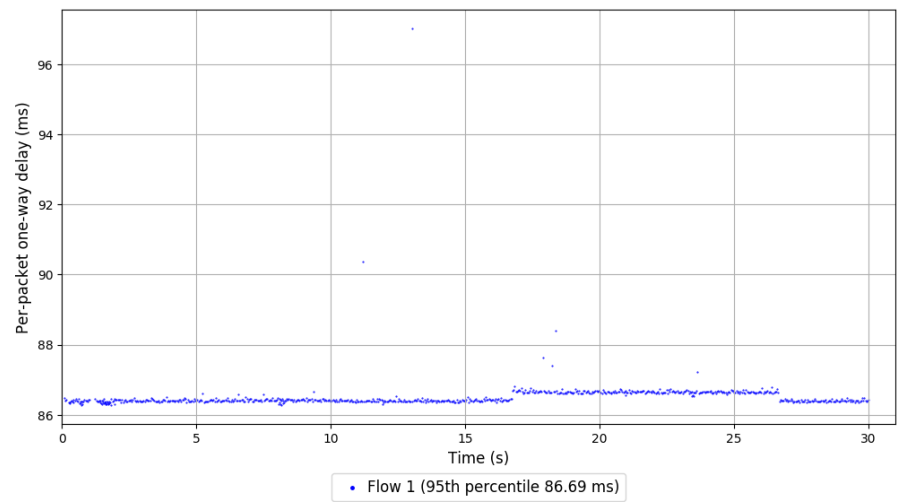
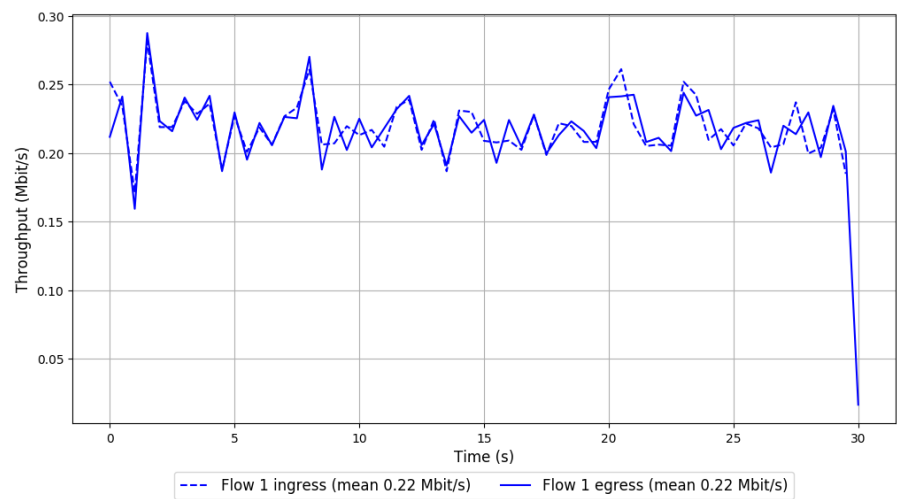
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.688 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



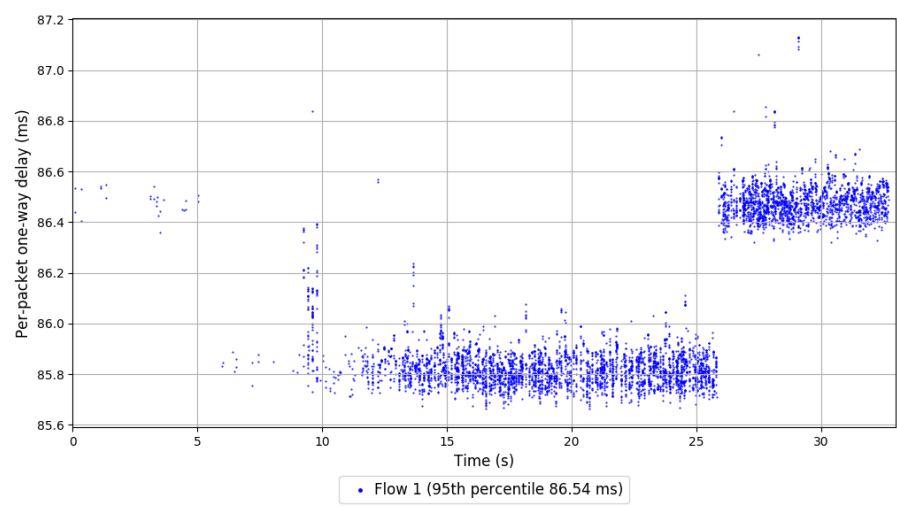
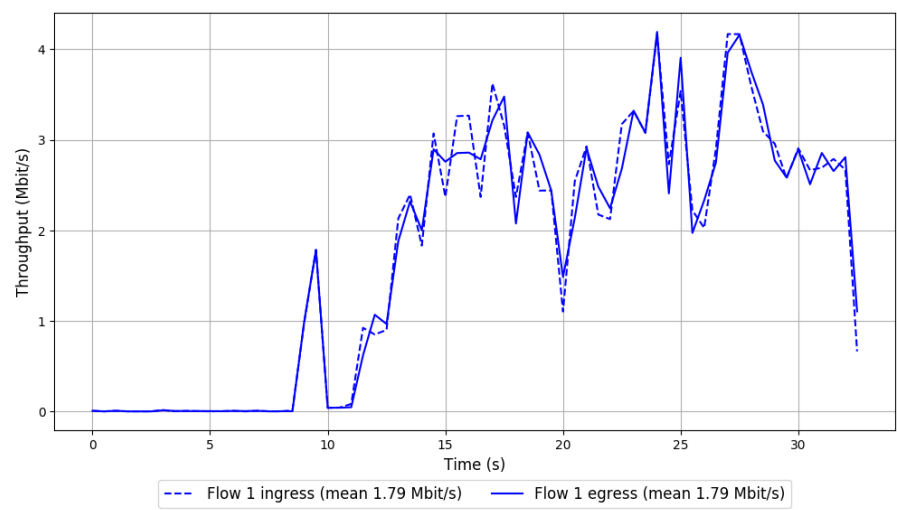
```
Run 1: Statistics of WebRTC media

Start at: 2018-02-19 19:31:55
End at: 2018-02-19 19:32:25

# Below is generated by plot.py at 2018-02-19 23:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 86.541 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 86.541 ms
Loss rate: 0.00%
```



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-19 19:47:14

End at: 2018-02-19 19:47:44

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 86.616 ms

Loss rate: 0.00%

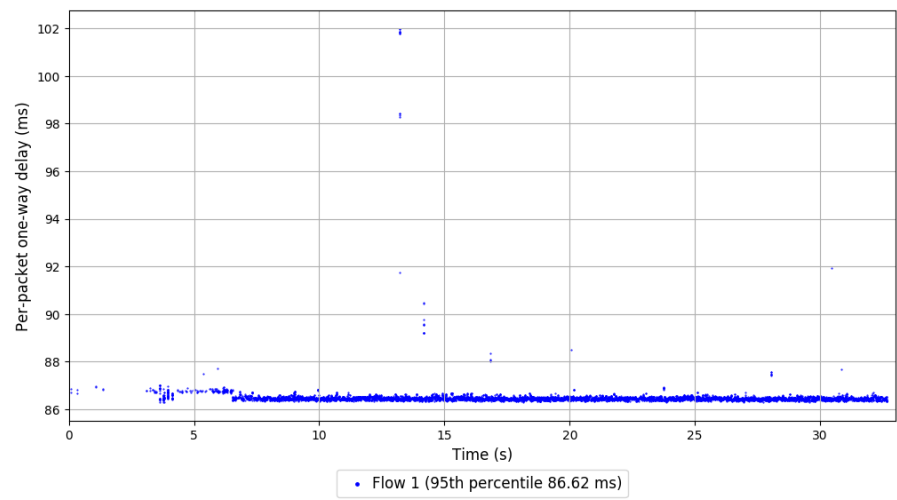
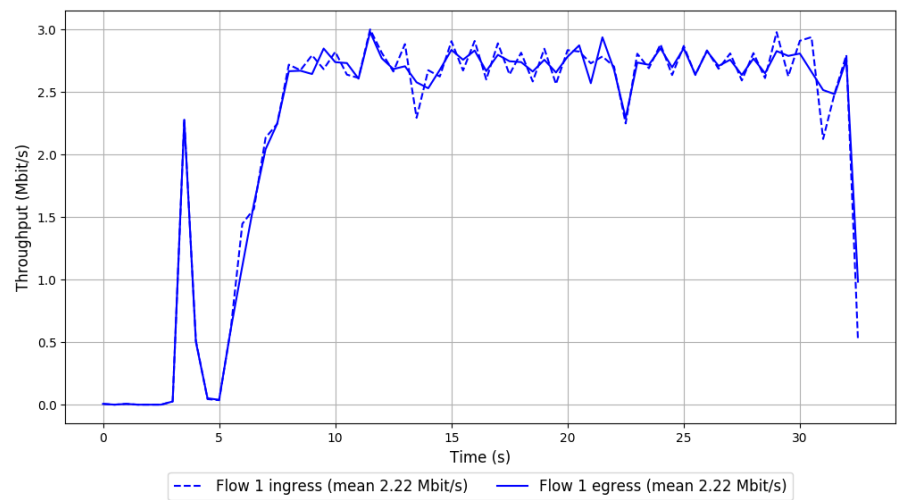
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 86.616 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-19 20:02:30

End at: 2018-02-19 20:03:00

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 86.039 ms

Loss rate: 0.00%

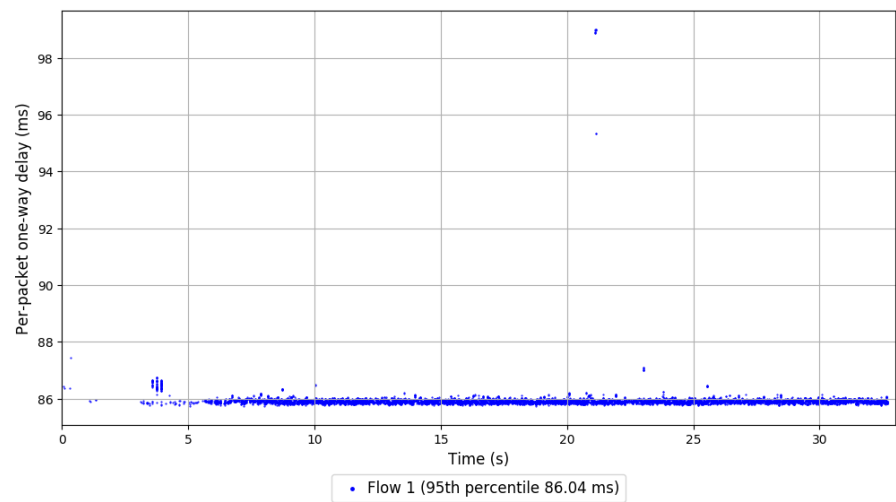
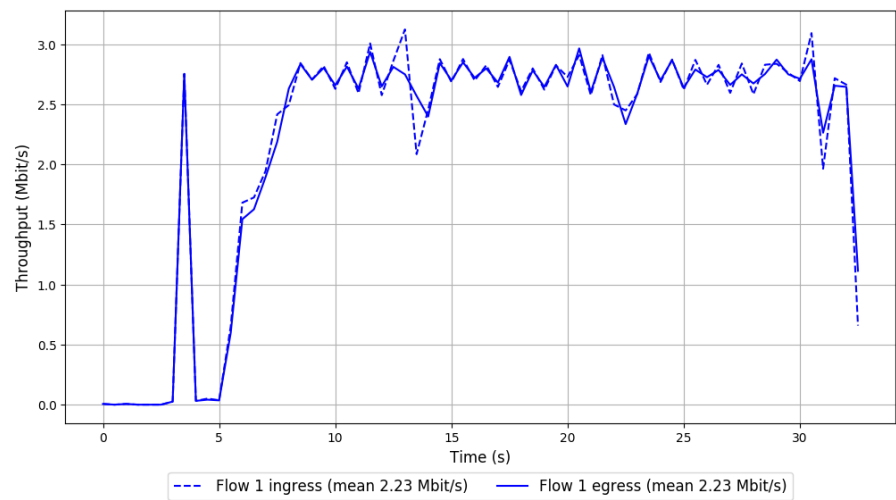
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 86.039 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-19 20:17:40

End at: 2018-02-19 20:18:10

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 86.929 ms

Loss rate: 0.00%

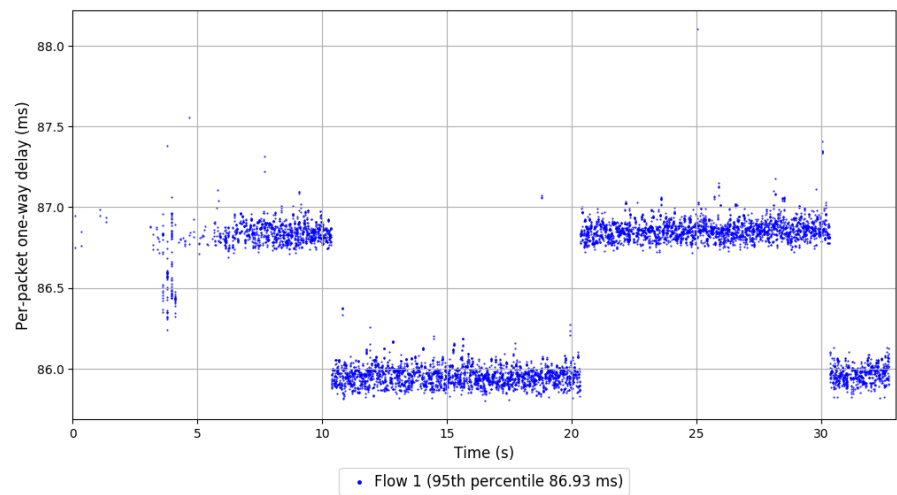
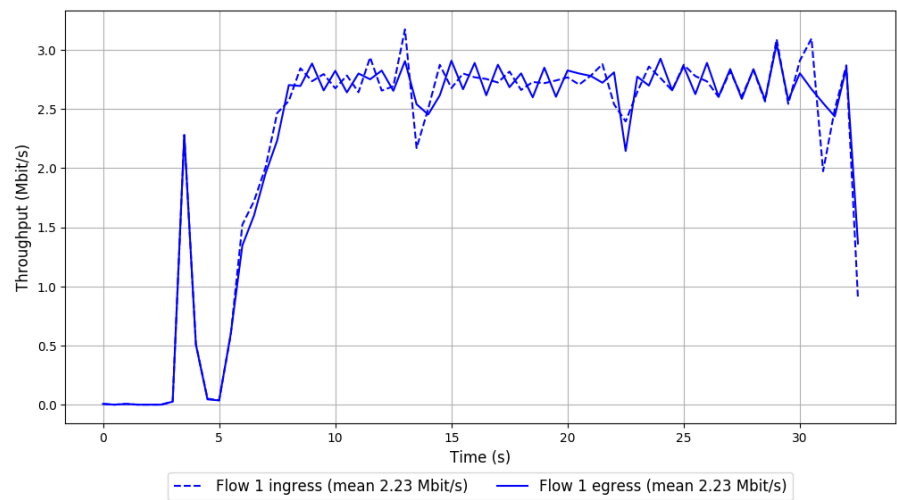
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 86.929 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-19 20:33:15

End at: 2018-02-19 20:33:45

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 86.683 ms

Loss rate: 0.00%

-- Flow 1:

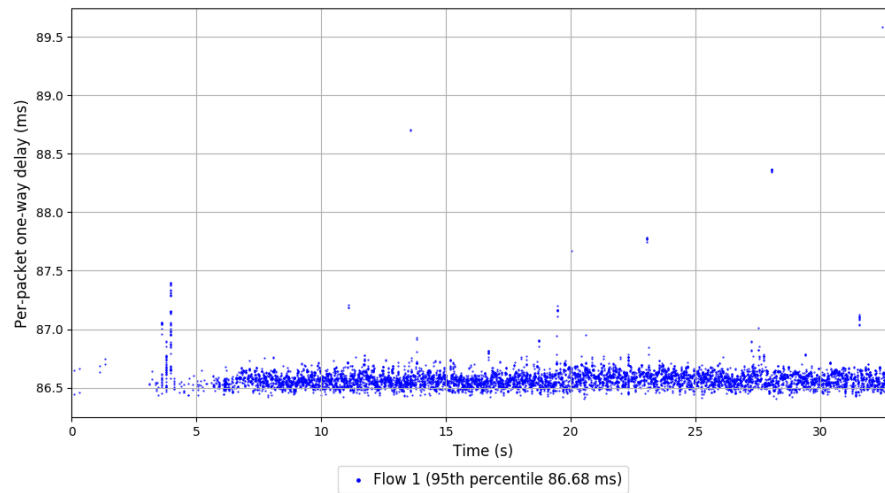
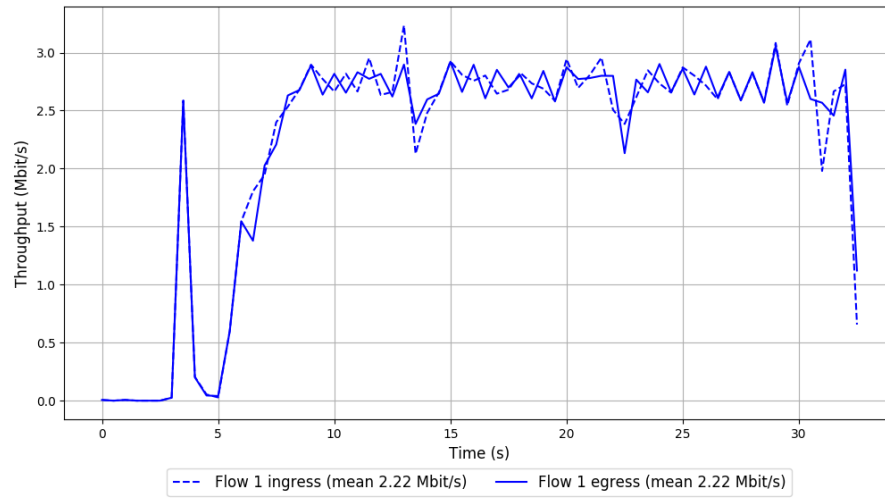
Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 86.683 ms

Loss rate: 0.00%



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



Run 6: Statistics of WebRTC media

Start at: 2018-02-19 20:48:25

End at: 2018-02-19 20:48:55

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 86.939 ms

Loss rate: 0.00%

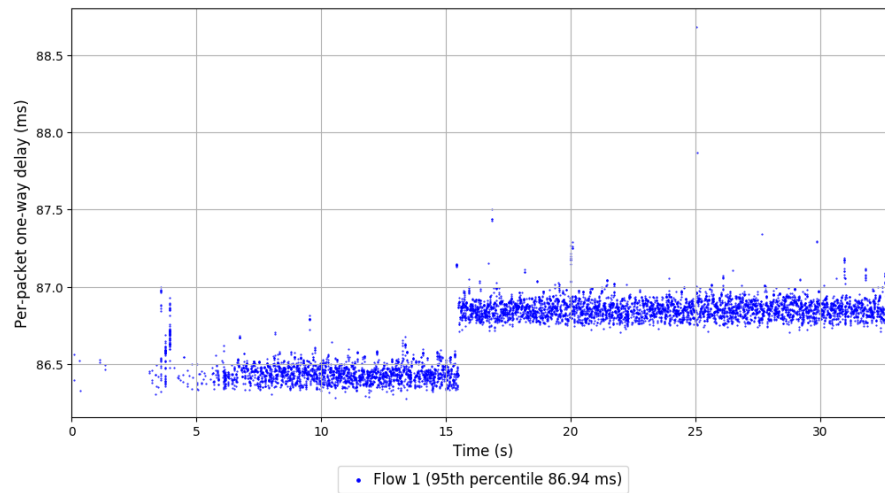
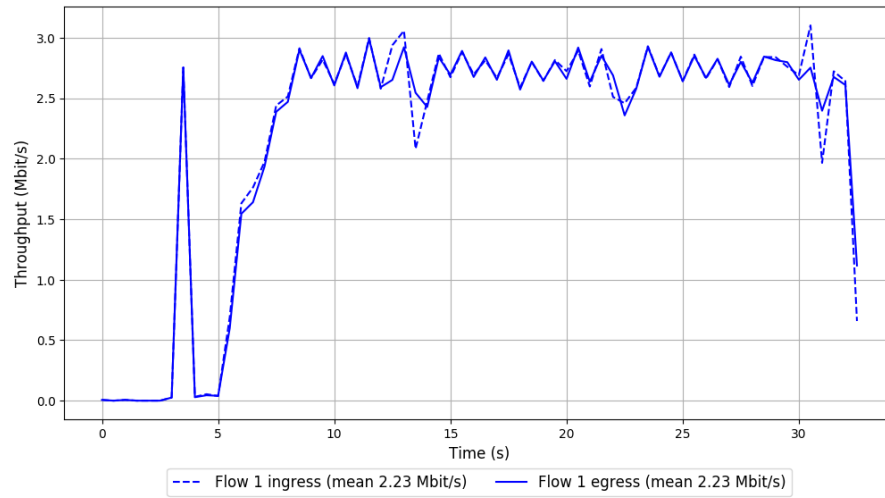
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 86.939 ms

Loss rate: 0.00%

# Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-19 21:03:44

End at: 2018-02-19 21:04:14

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 113.921 ms

Loss rate: 0.00%

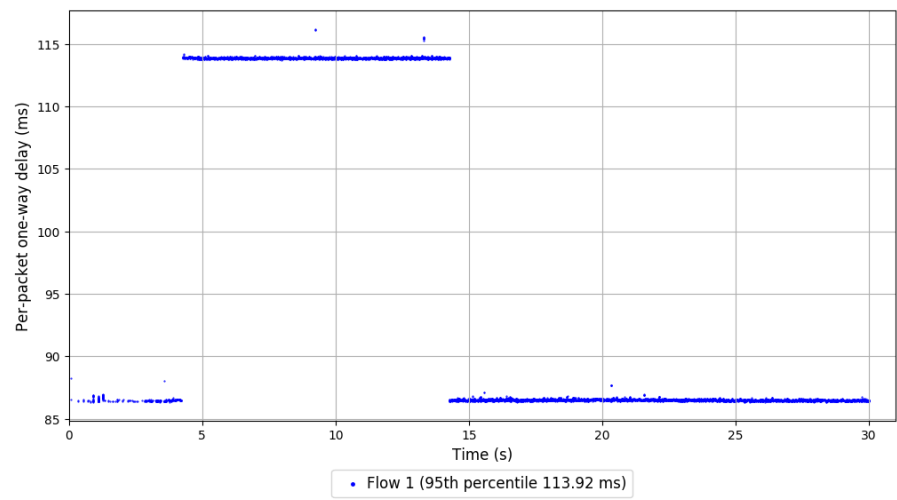
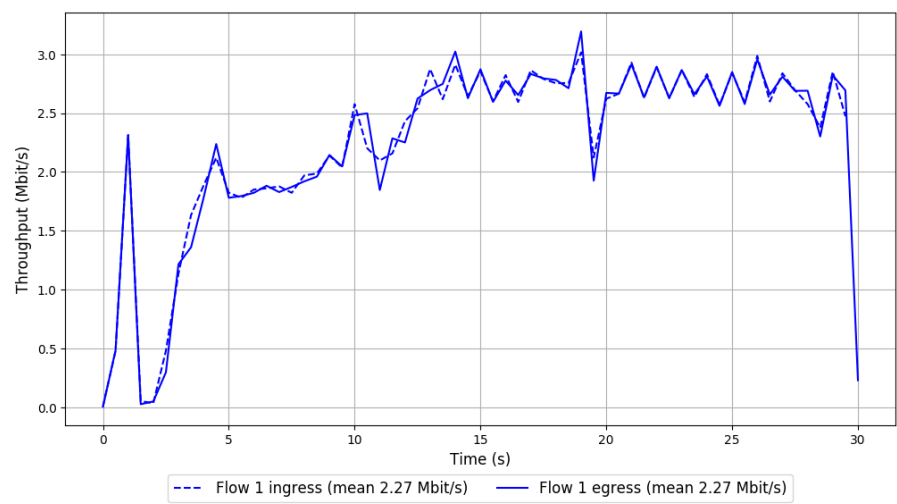
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 113.921 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-19 21:18:42

End at: 2018-02-19 21:19:12

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 86.633 ms

Loss rate: 0.00%

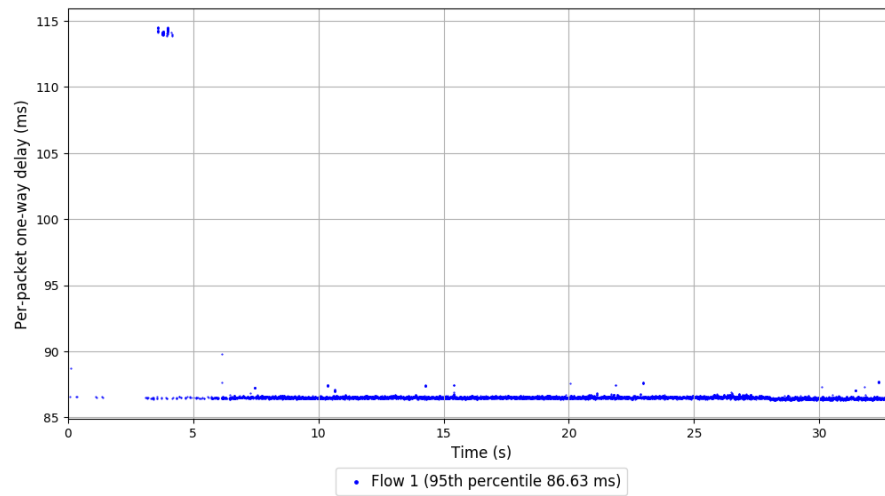
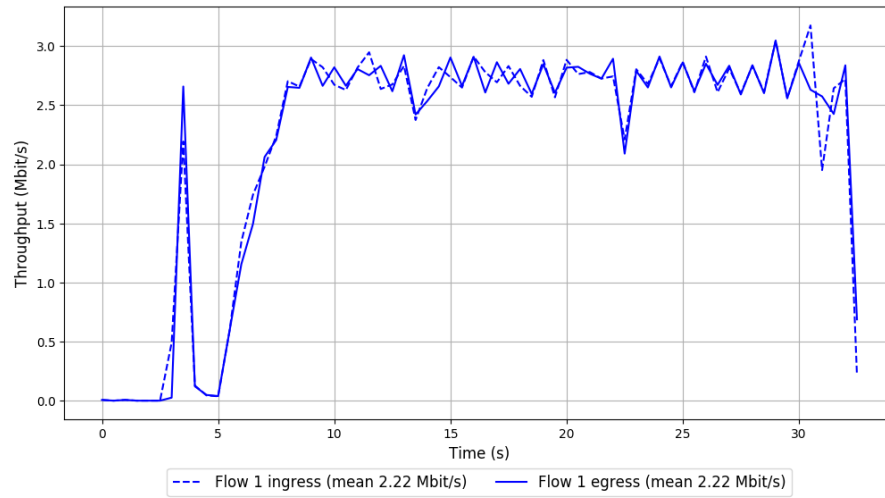
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 86.633 ms

Loss rate: 0.00%

## Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-19 21:33:36

End at: 2018-02-19 21:34:06

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 87.121 ms

Loss rate: 0.00%

-- Flow 1:

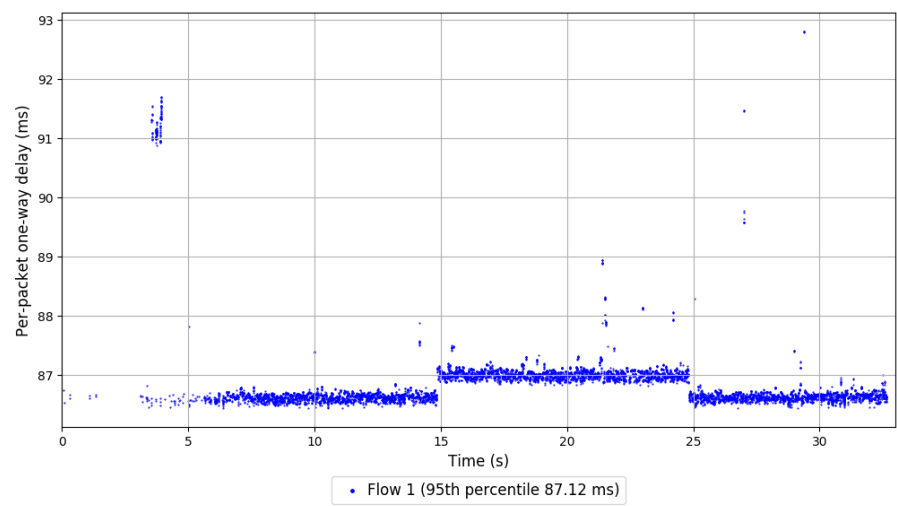
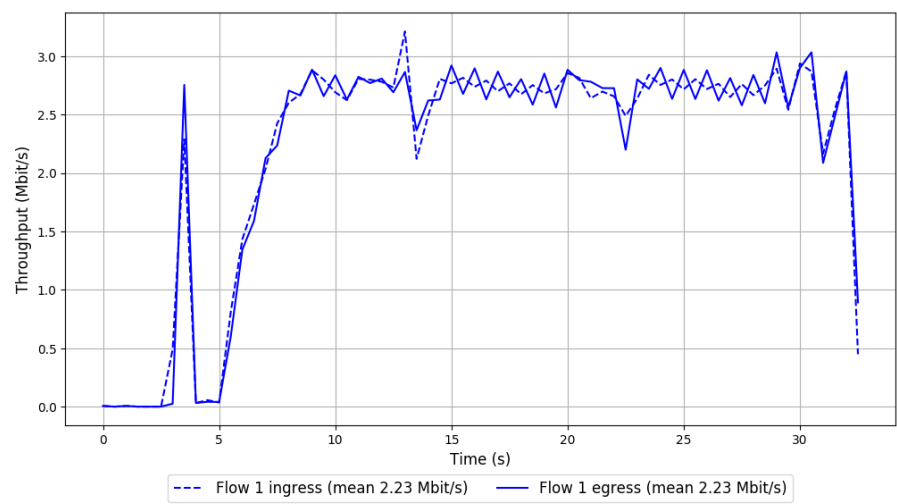
Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 87.121 ms

Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-19 21:48:47

End at: 2018-02-19 21:49:17

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 90.756 ms

Loss rate: 0.00%

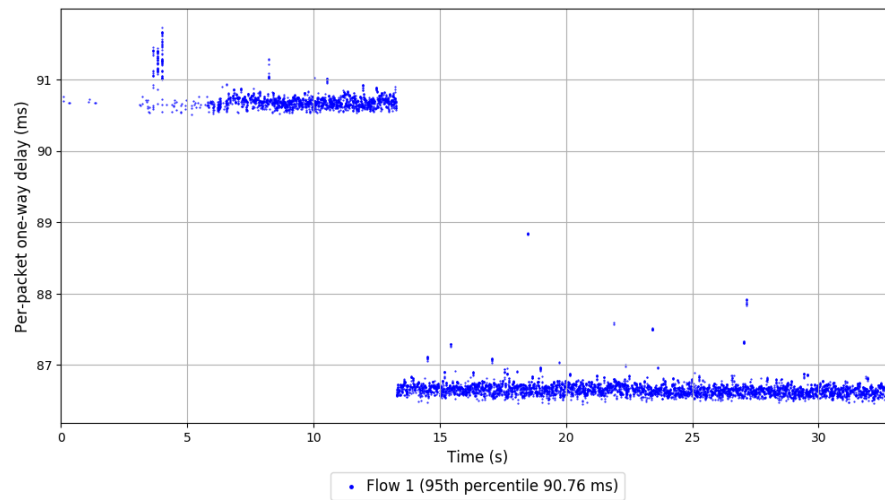
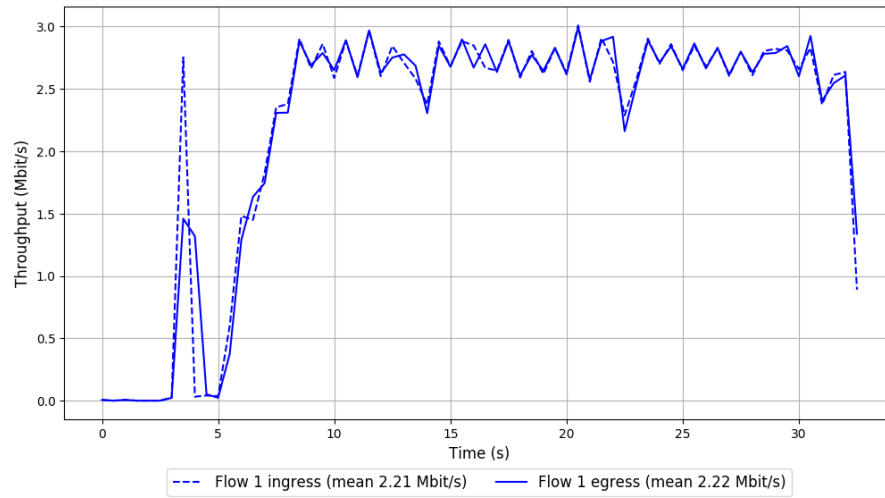
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 90.756 ms

Loss rate: 0.00%

# Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-19 19:27:10

End at: 2018-02-19 19:27:40

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 87.874 ms

Loss rate: 0.00%

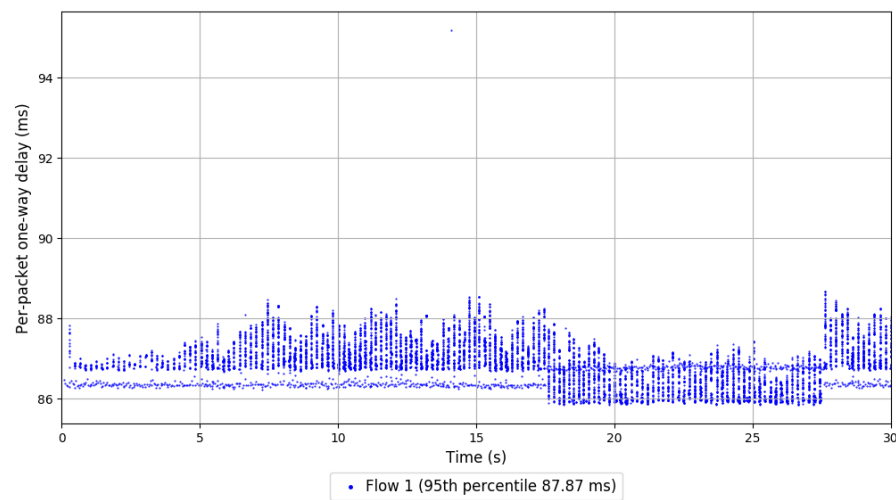
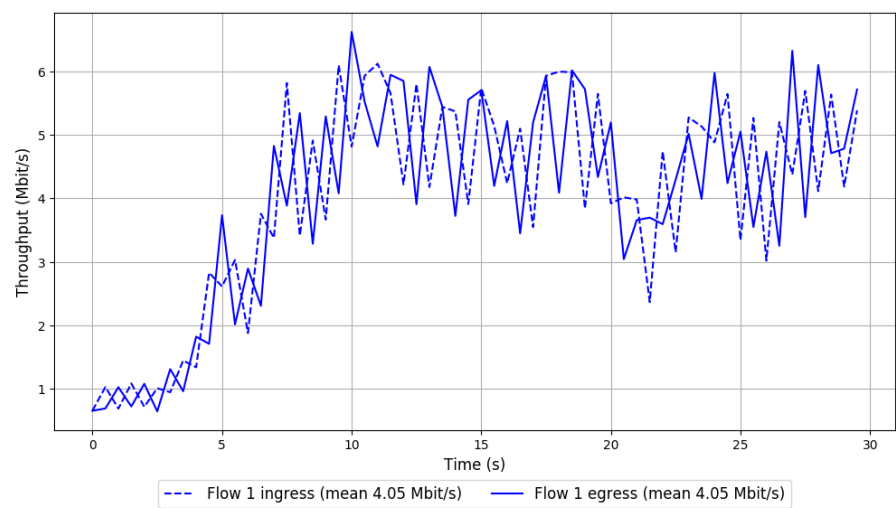
-- Flow 1:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 87.874 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-19 19:42:21

End at: 2018-02-19 19:42:51

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 87.855 ms

Loss rate: 0.00%

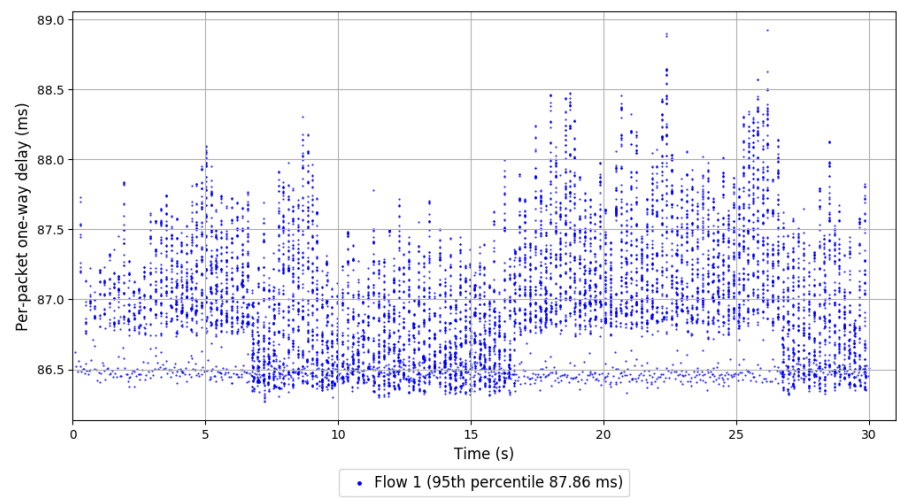
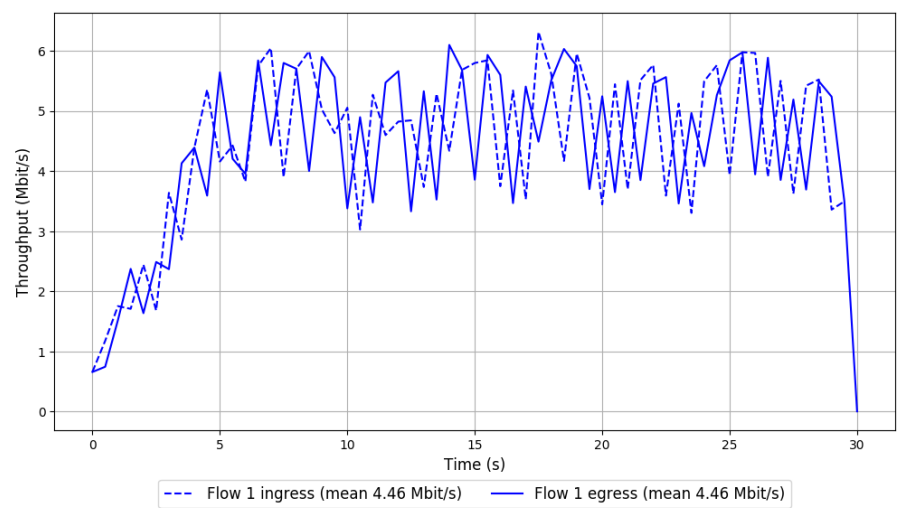
-- Flow 1:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 87.855 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-19 19:57:35

End at: 2018-02-19 19:58:05

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 87.593 ms

Loss rate: 0.00%

-- Flow 1:

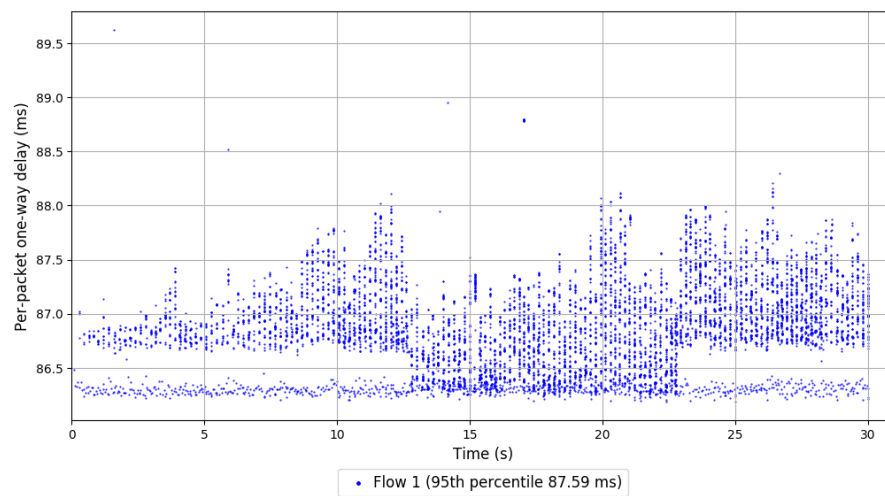
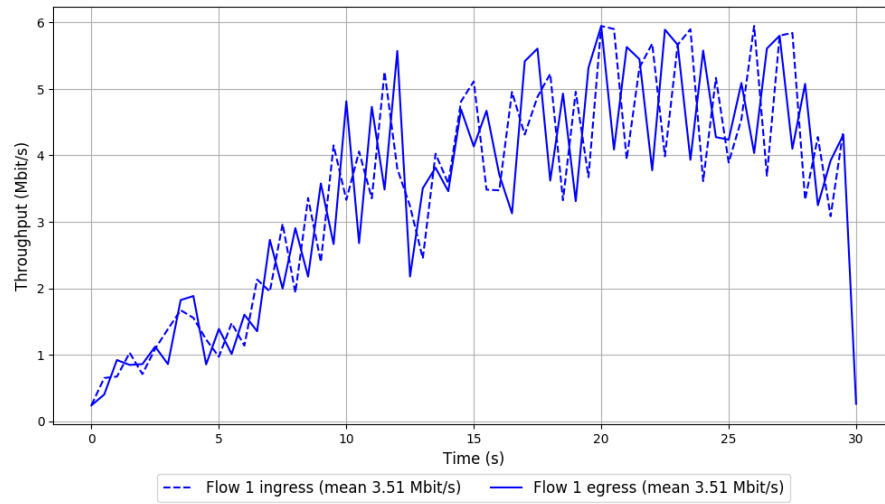
Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 87.593 ms

Loss rate: 0.00%



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



Run 4: Statistics of Sprout

Start at: 2018-02-19 20:12:53

End at: 2018-02-19 20:13:23

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 87.488 ms

Loss rate: 0.00%

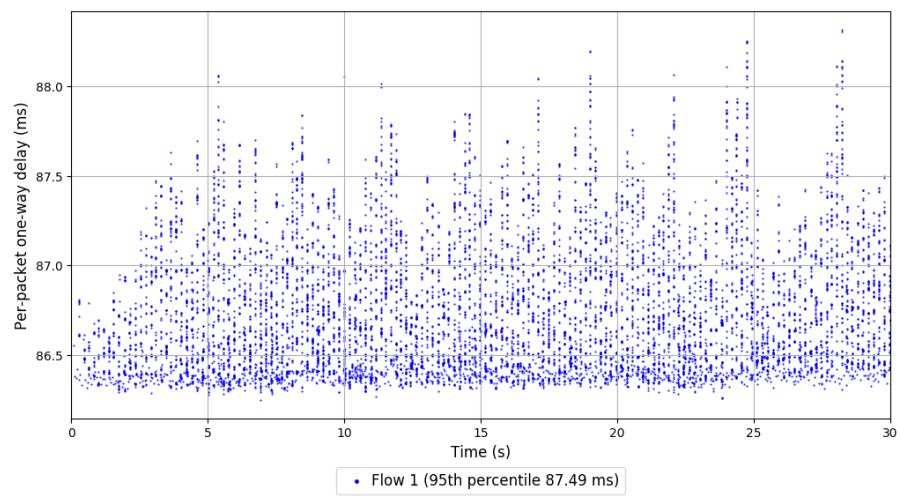
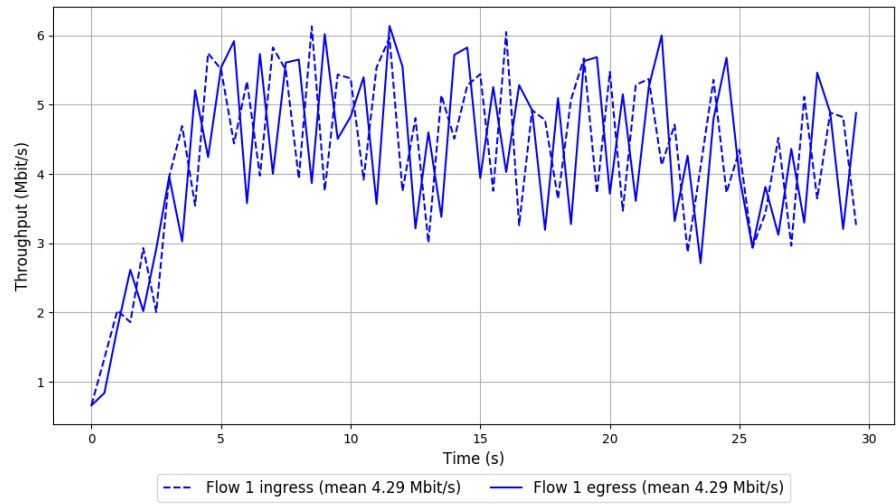
-- Flow 1:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 87.488 ms

Loss rate: 0.00%

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



Run 5: Statistics of Sprout

Start at: 2018-02-19 20:28:19

End at: 2018-02-19 20:28:49

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 87.761 ms

Loss rate: 0.00%

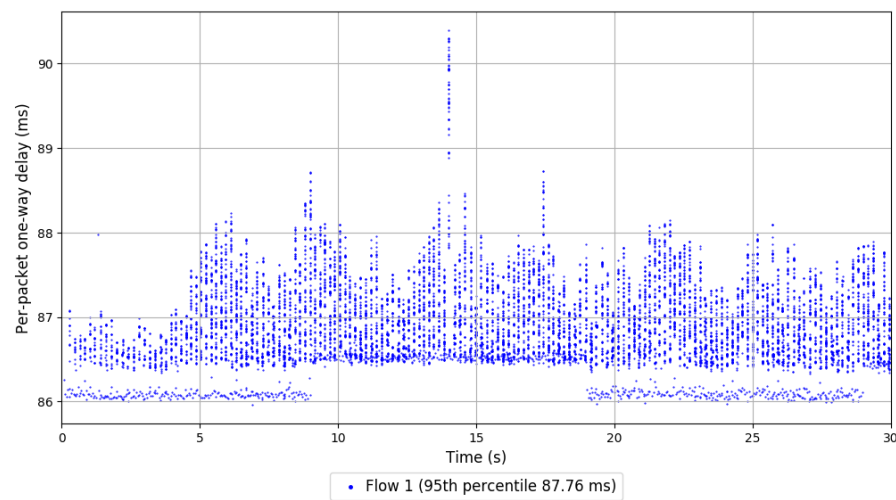
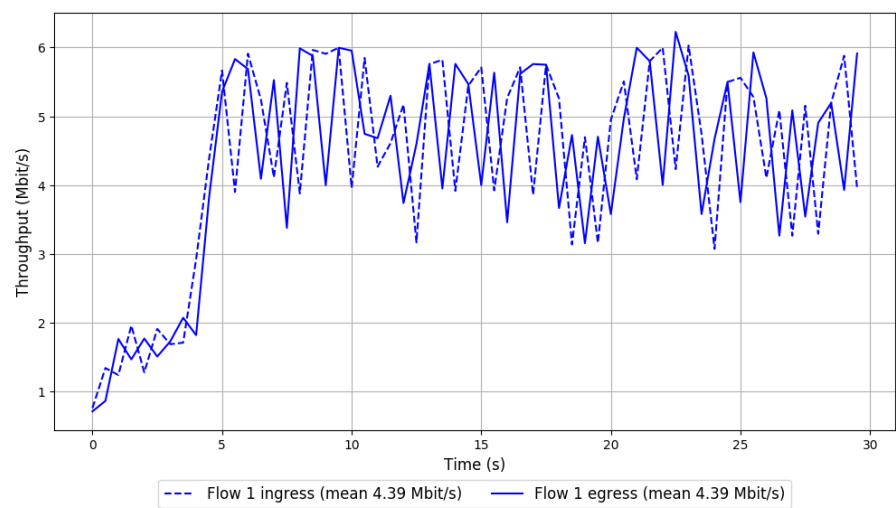
-- Flow 1:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 87.761 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-19 20:43:31

End at: 2018-02-19 20:44:01

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 87.746 ms

Loss rate: 0.00%

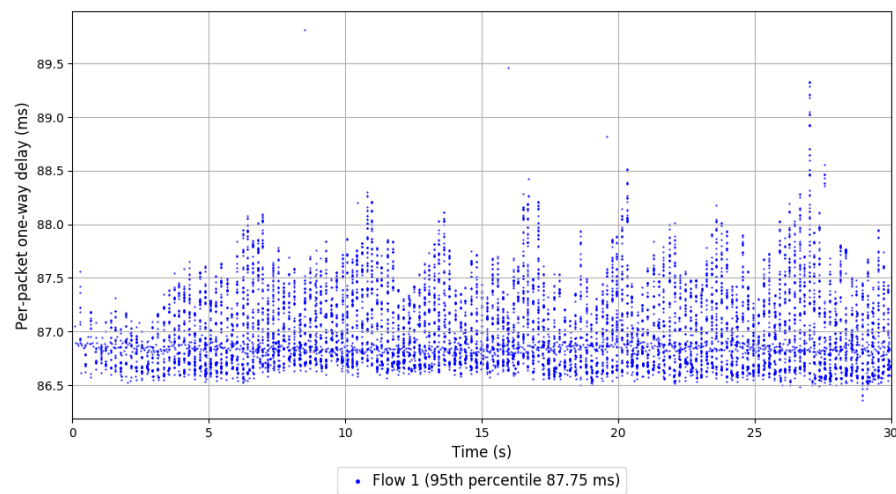
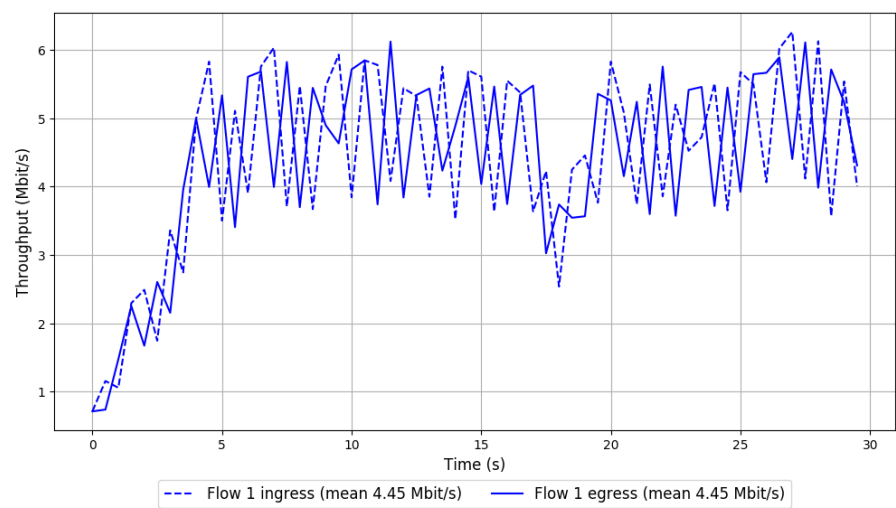
-- Flow 1:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 87.746 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-19 20:58:55

End at: 2018-02-19 20:59:25

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 114.537 ms

Loss rate: 0.00%

-- Flow 1:

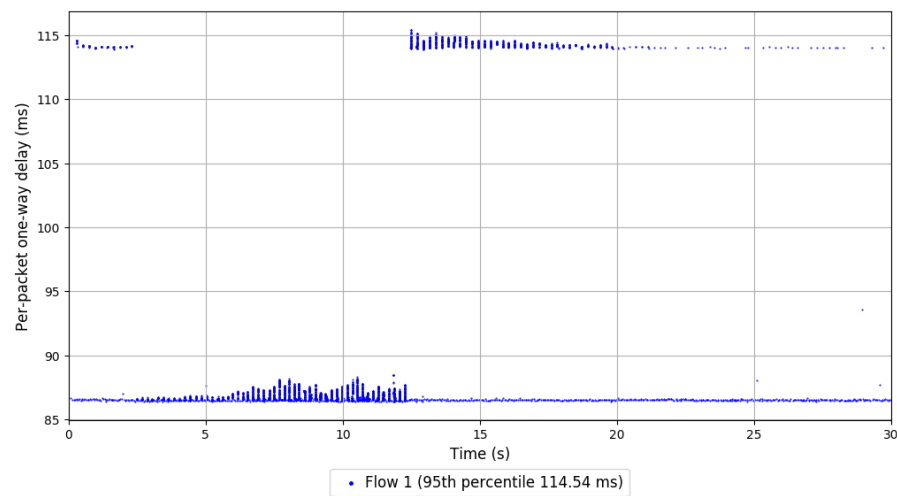
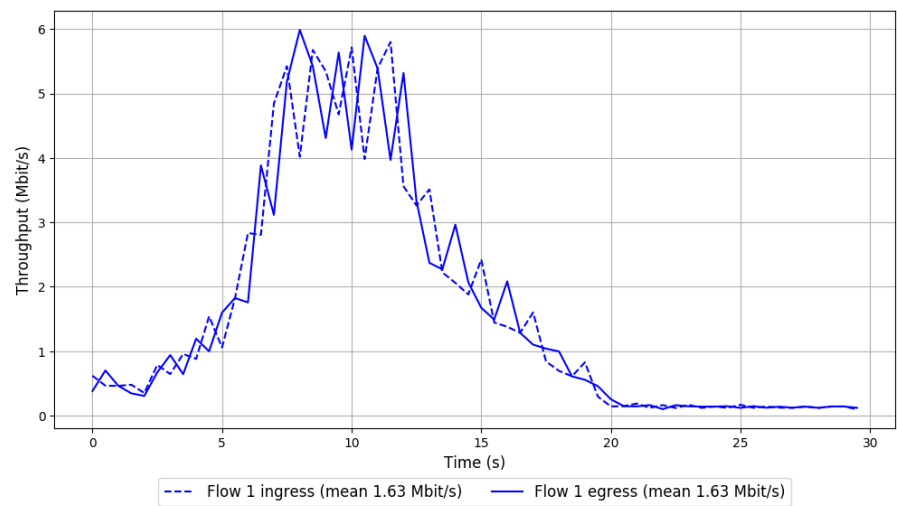
Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 114.537 ms

Loss rate: 0.00%



Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-19 21:13:51

End at: 2018-02-19 21:14:21

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 114.421 ms

Loss rate: 0.33%

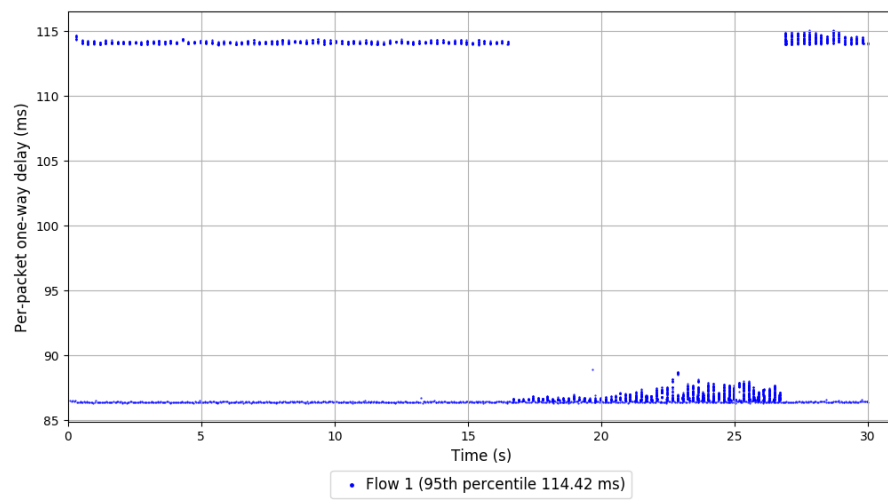
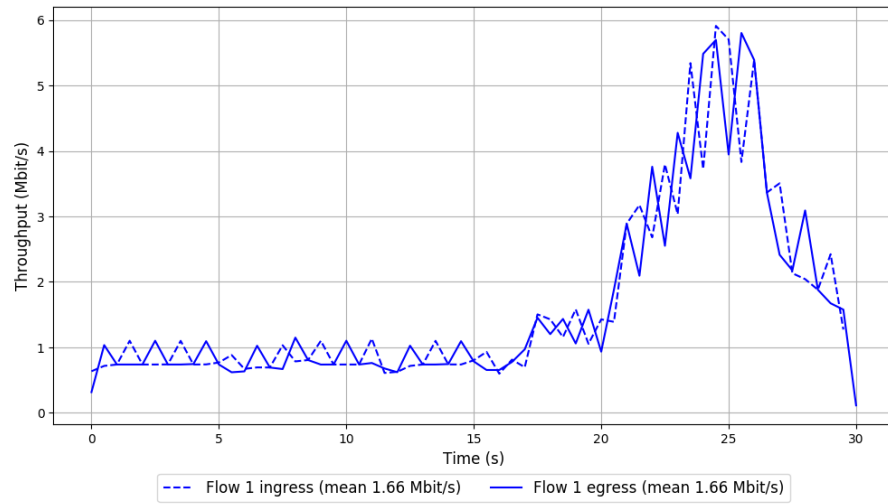
-- Flow 1:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 114.421 ms

Loss rate: 0.33%

## Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-19 21:28:47

End at: 2018-02-19 21:29:17

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 91.800 ms

Loss rate: 0.00%

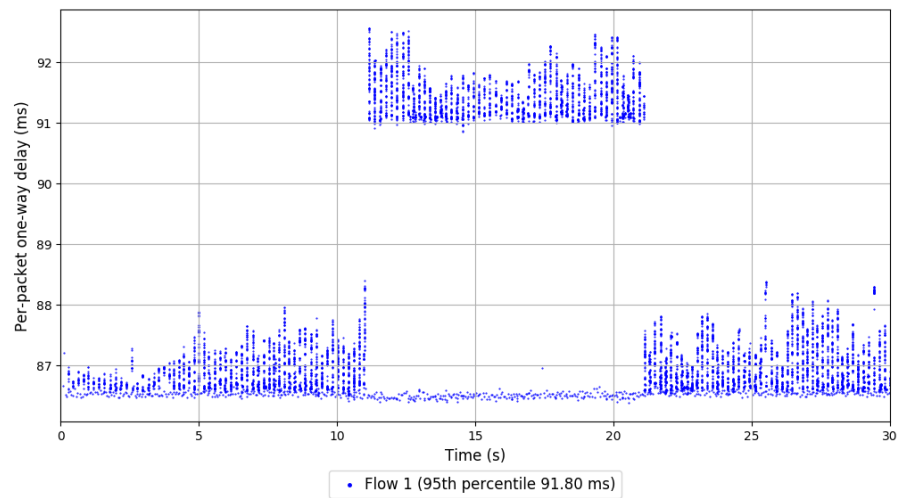
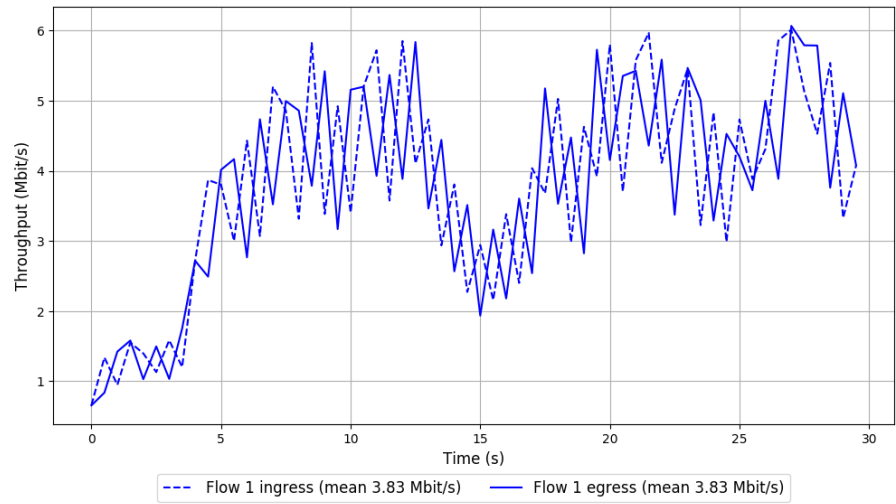
-- Flow 1:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 91.800 ms

Loss rate: 0.00%

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



Run 10: Statistics of Sprout

Start at: 2018-02-19 21:43:49

End at: 2018-02-19 21:44:19

# Below is generated by plot.py at 2018-02-19 23:44:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 92.041 ms

Loss rate: 0.00%

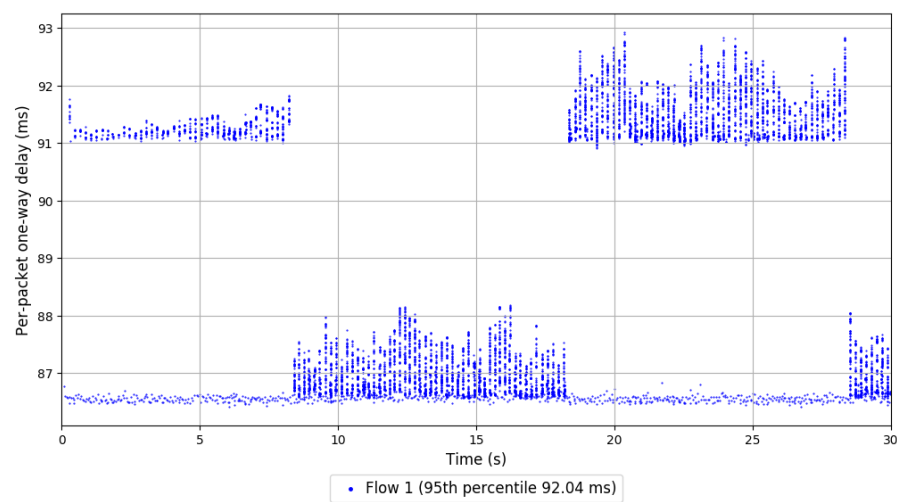
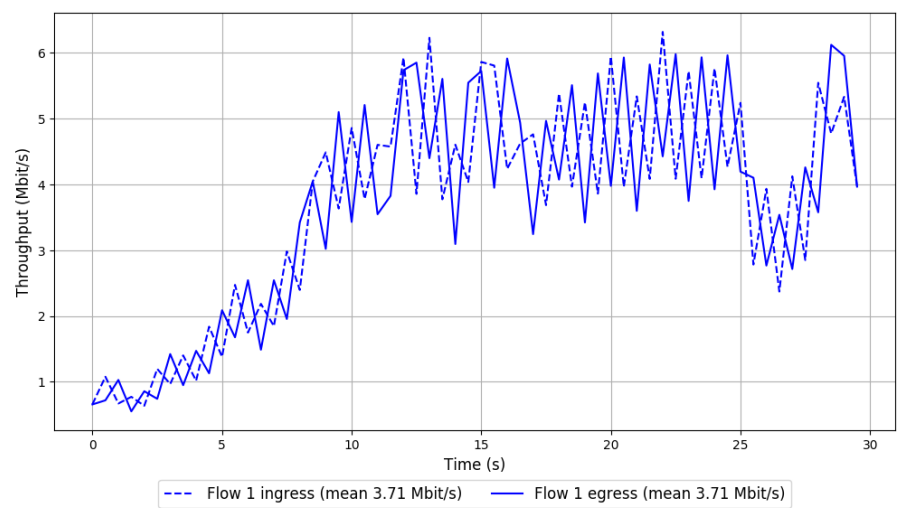
-- Flow 1:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 92.041 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



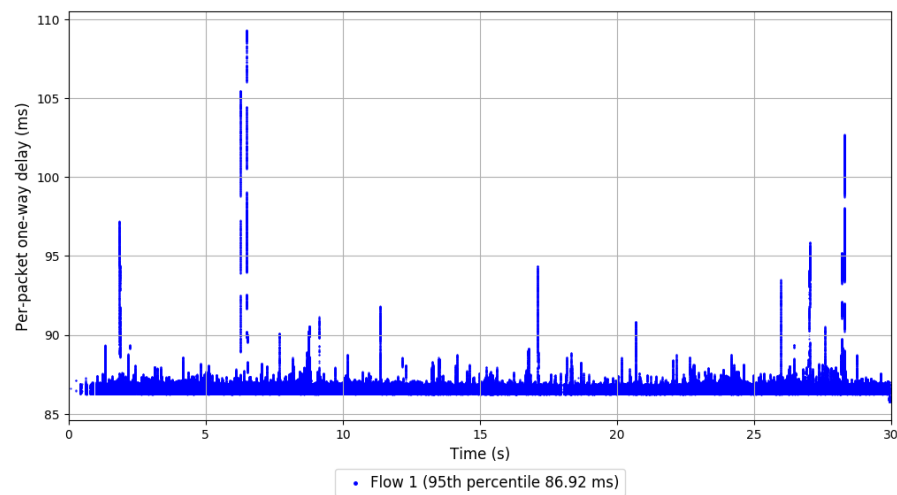
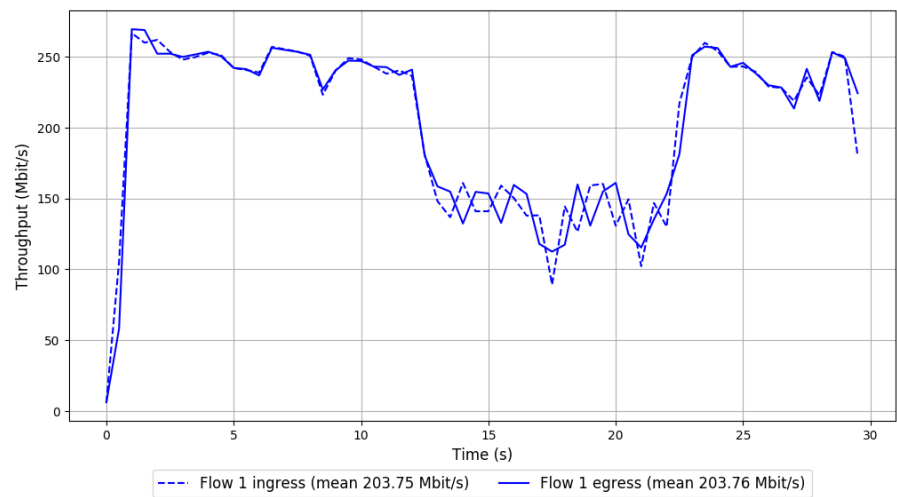
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-19 19:25:18
End at: 2018-02-19 19:25:48

# Below is generated by plot.py at 2018-02-19 23:48:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.76 Mbit/s
95th percentile per-packet one-way delay: 86.918 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 203.76 Mbit/s
95th percentile per-packet one-way delay: 86.918 ms
Loss rate: 0.00%
```



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

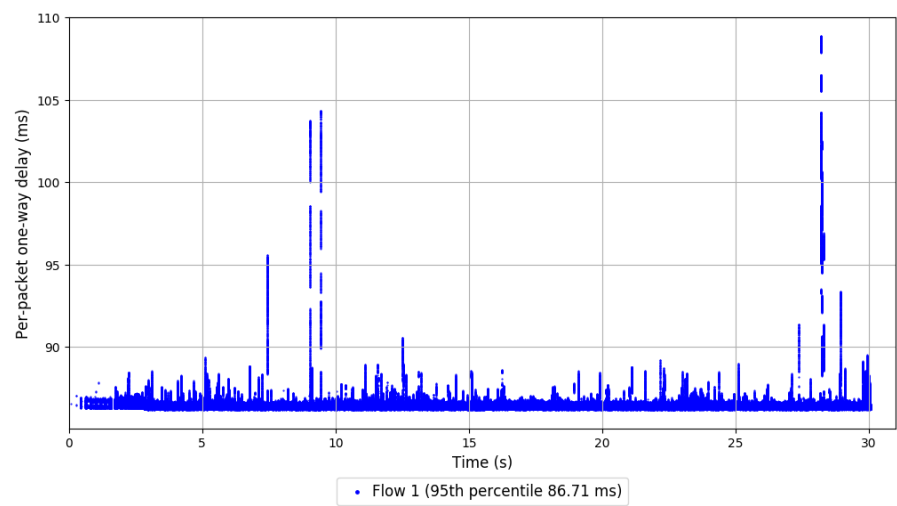
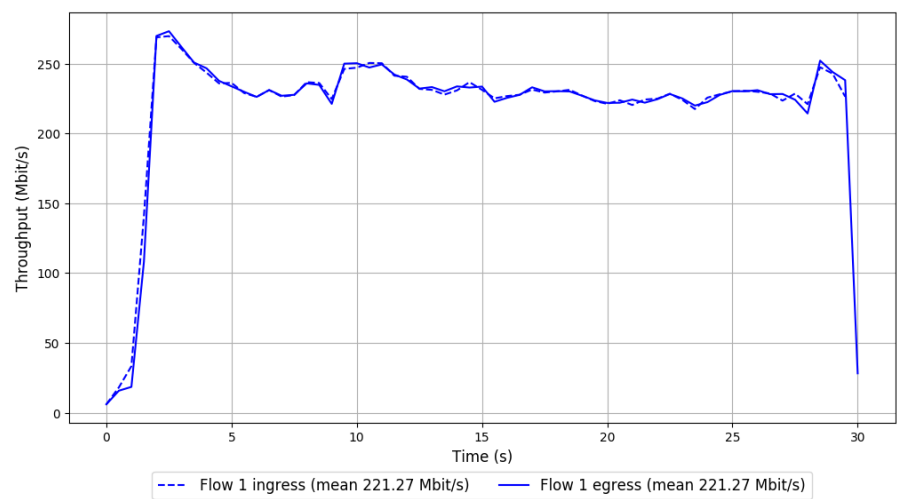


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-19 19:40:15
End at: 2018-02-19 19:40:45

# Below is generated by plot.py at 2018-02-19 23:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.27 Mbit/s
95th percentile per-packet one-way delay: 86.710 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.27 Mbit/s
95th percentile per-packet one-way delay: 86.710 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-19 19:55:30

End at: 2018-02-19 19:56:00

# Below is generated by plot.py at 2018-02-19 23:49:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 231.81 Mbit/s

95th percentile per-packet one-way delay: 86.741 ms

Loss rate: 0.00%

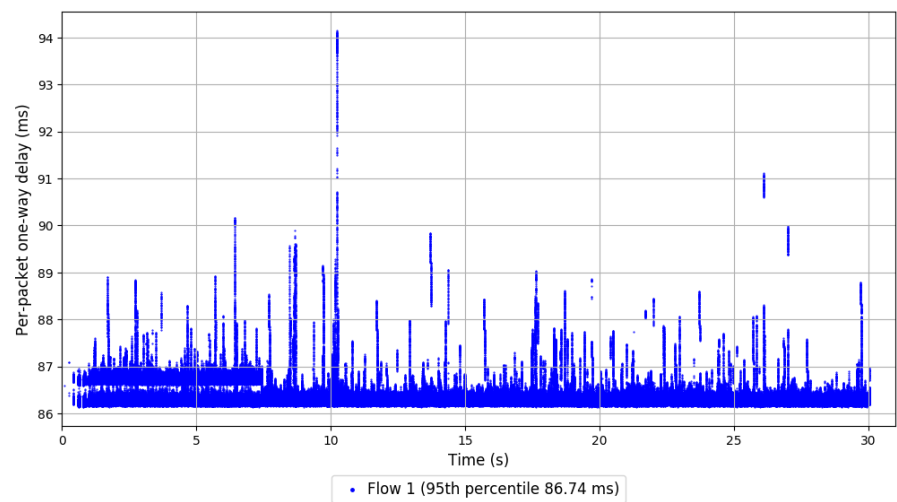
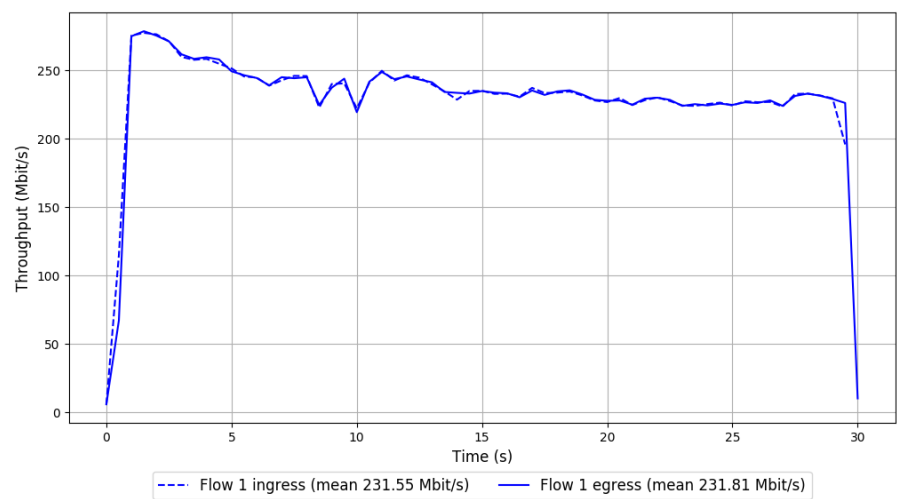
-- Flow 1:

Average throughput: 231.81 Mbit/s

95th percentile per-packet one-way delay: 86.741 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-19 20:10:45

End at: 2018-02-19 20:11:15

# Below is generated by plot.py at 2018-02-19 23:49:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 225.27 Mbit/s

95th percentile per-packet one-way delay: 86.369 ms

Loss rate: 0.00%

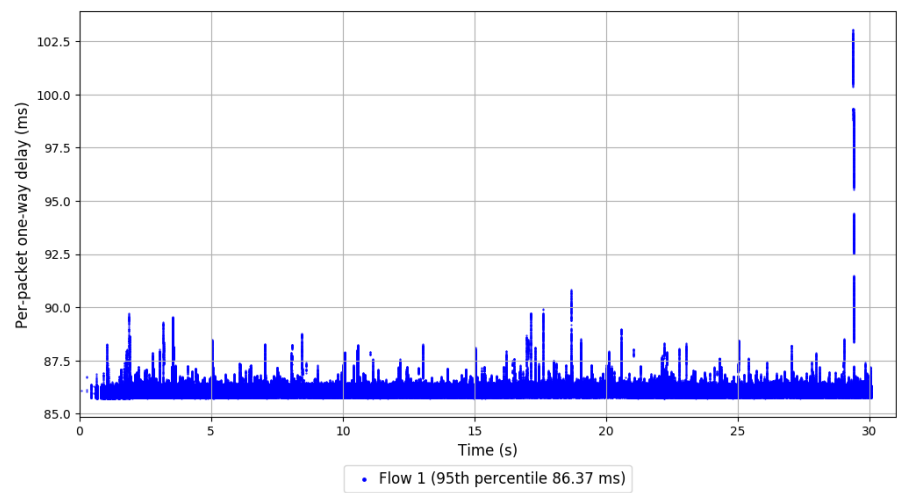
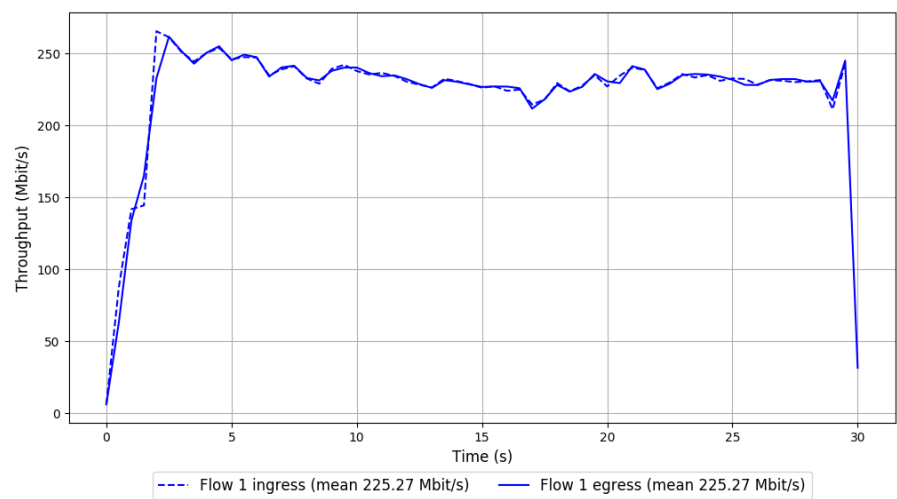
-- Flow 1:

Average throughput: 225.27 Mbit/s

95th percentile per-packet one-way delay: 86.369 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-19 20:26:12

End at: 2018-02-19 20:26:42

# Below is generated by plot.py at 2018-02-19 23:49:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 219.12 Mbit/s

95th percentile per-packet one-way delay: 86.727 ms

Loss rate: 0.04%

-- Flow 1:

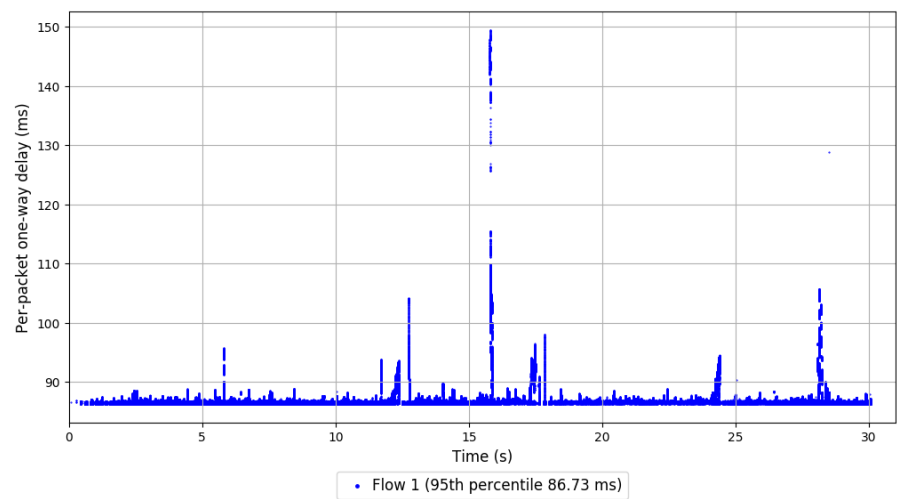
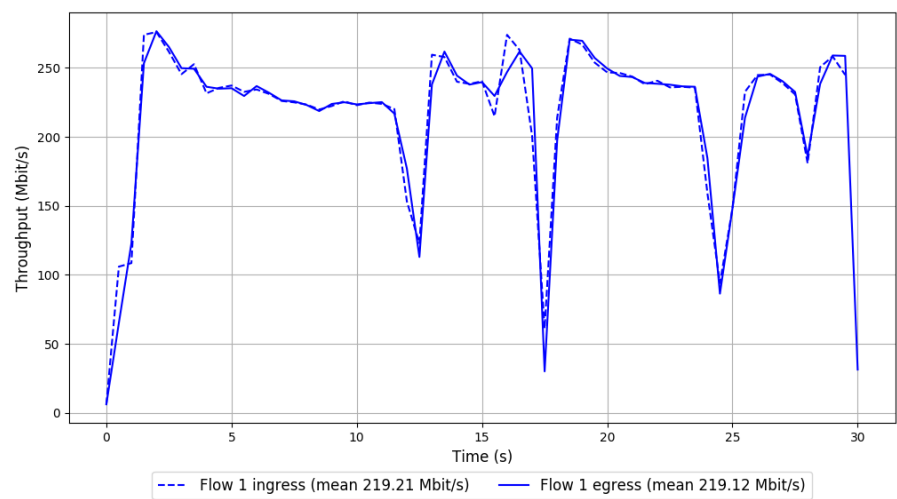
Average throughput: 219.12 Mbit/s

95th percentile per-packet one-way delay: 86.727 ms

Loss rate: 0.04%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-19 20:41:40

End at: 2018-02-19 20:42:10

# Below is generated by plot.py at 2018-02-19 23:49:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 137.77 Mbit/s

95th percentile per-packet one-way delay: 87.064 ms

Loss rate: 0.00%

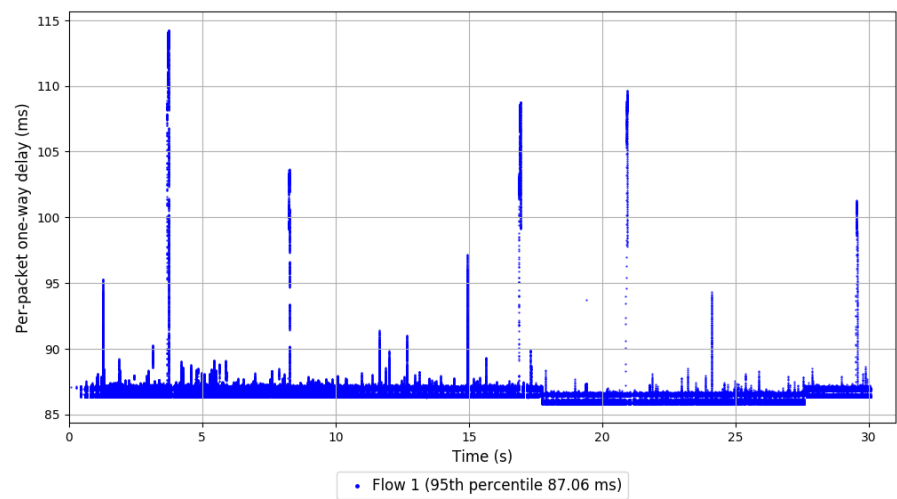
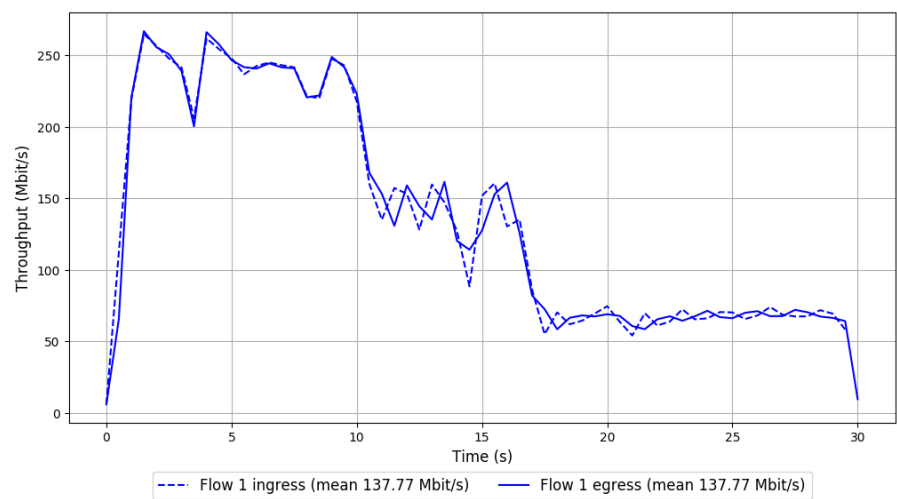
-- Flow 1:

Average throughput: 137.77 Mbit/s

95th percentile per-packet one-way delay: 87.064 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-19 20:56:49

End at: 2018-02-19 20:57:19

# Below is generated by plot.py at 2018-02-19 23:52:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 225.35 Mbit/s

95th percentile per-packet one-way delay: 87.177 ms

Loss rate: 0.00%

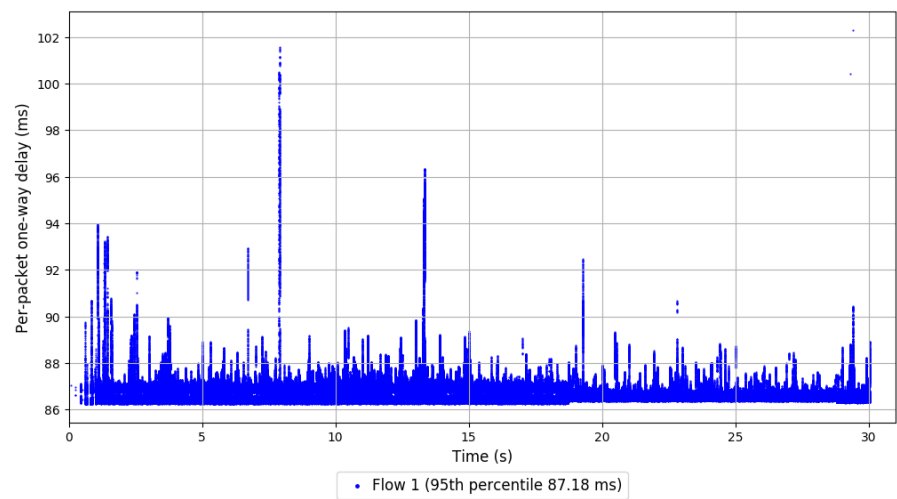
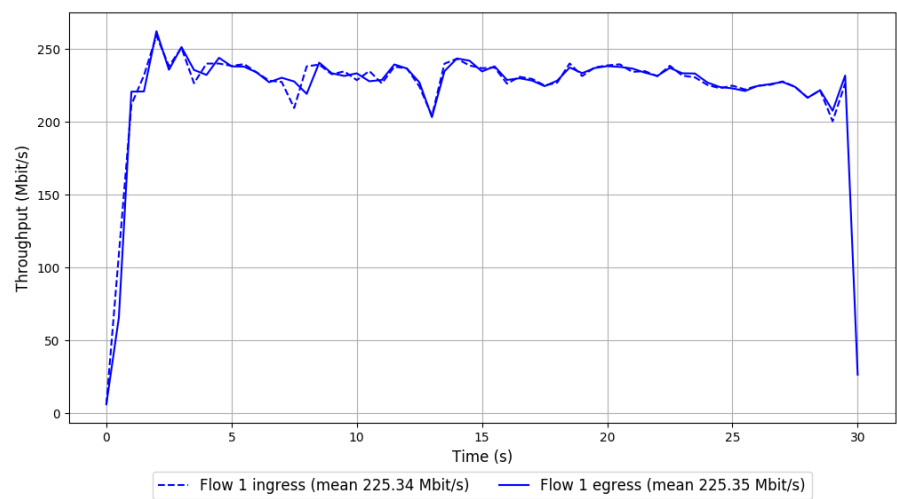
-- Flow 1:

Average throughput: 225.35 Mbit/s

95th percentile per-packet one-way delay: 87.177 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-19 21:11:48

End at: 2018-02-19 21:12:18

# Below is generated by plot.py at 2018-02-19 23:52:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 186.25 Mbit/s

95th percentile per-packet one-way delay: 114.027 ms

Loss rate: 0.00%

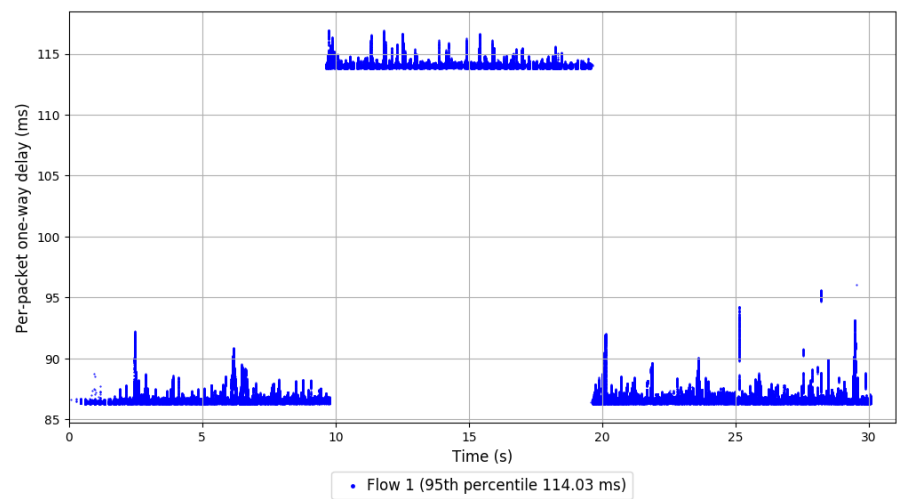
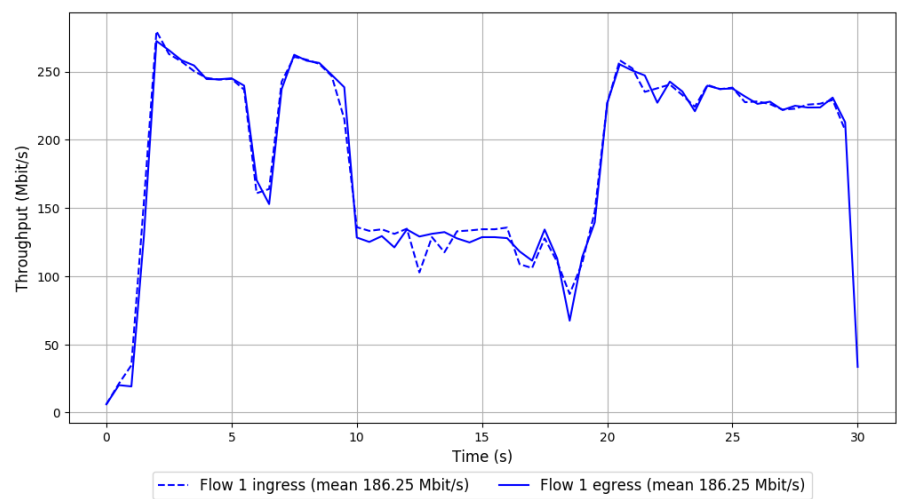
-- Flow 1:

Average throughput: 186.25 Mbit/s

95th percentile per-packet one-way delay: 114.027 ms

Loss rate: 0.00%

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



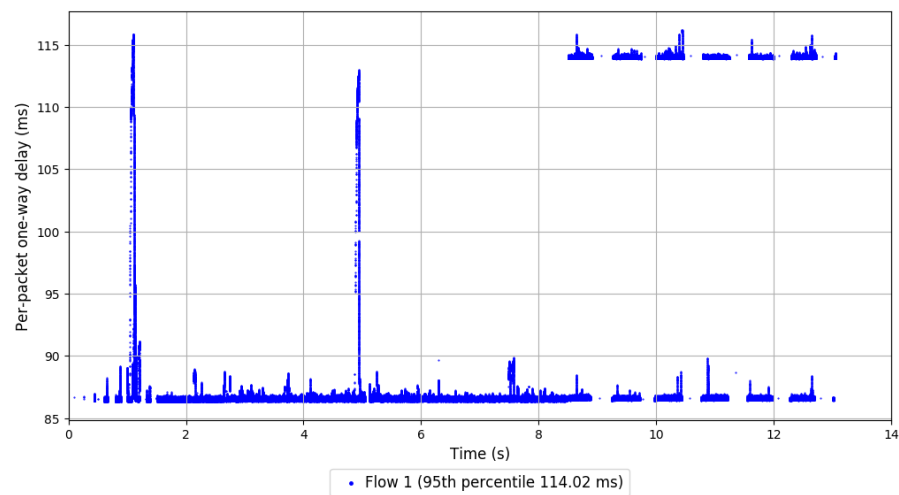
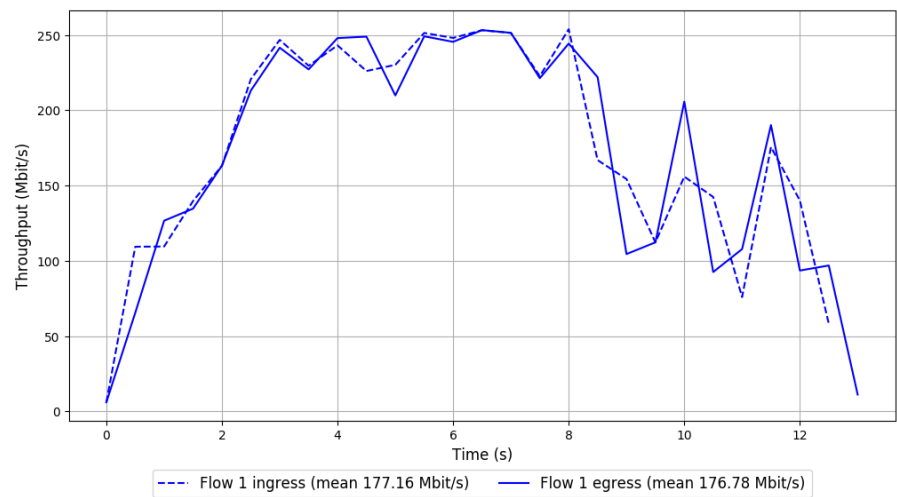
Run 9: Statistics of TaoVA-100x

Start at: 2018-02-19 21:26:59

End at: 2018-02-19 21:27:29



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

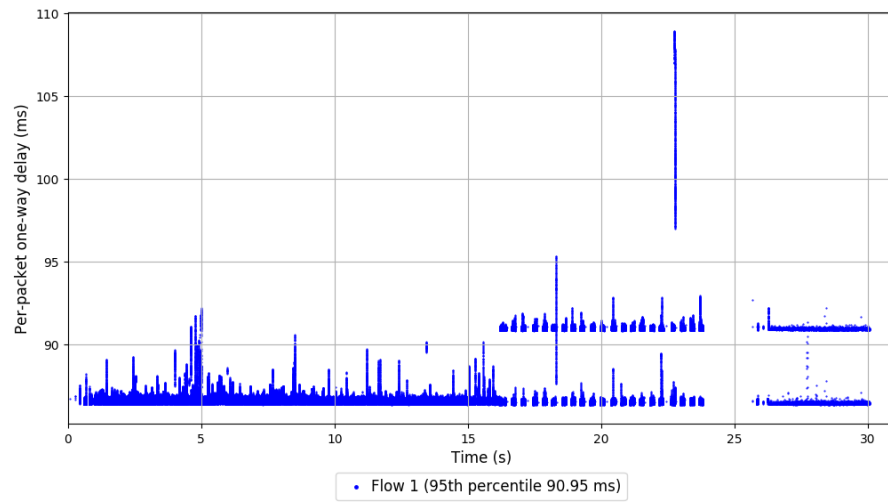
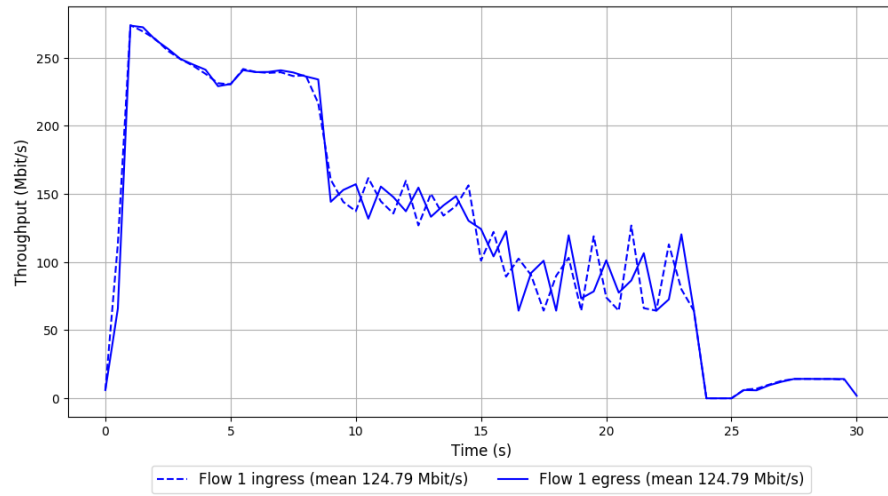


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-19 21:42:02
End at: 2018-02-19 21:42:32

# Below is generated by plot.py at 2018-02-19 23:52:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.79 Mbit/s
95th percentile per-packet one-way delay: 90.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 124.79 Mbit/s
95th percentile per-packet one-way delay: 90.950 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-19 19:22:25

End at: 2018-02-19 19:22:55

# Below is generated by plot.py at 2018-02-19 23:52:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 131.42 Mbit/s

95th percentile per-packet one-way delay: 97.959 ms

Loss rate: 0.00%

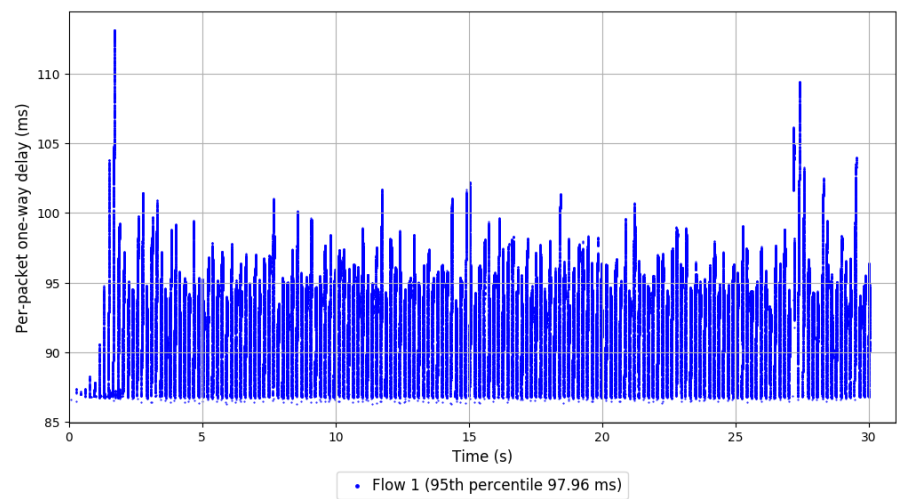
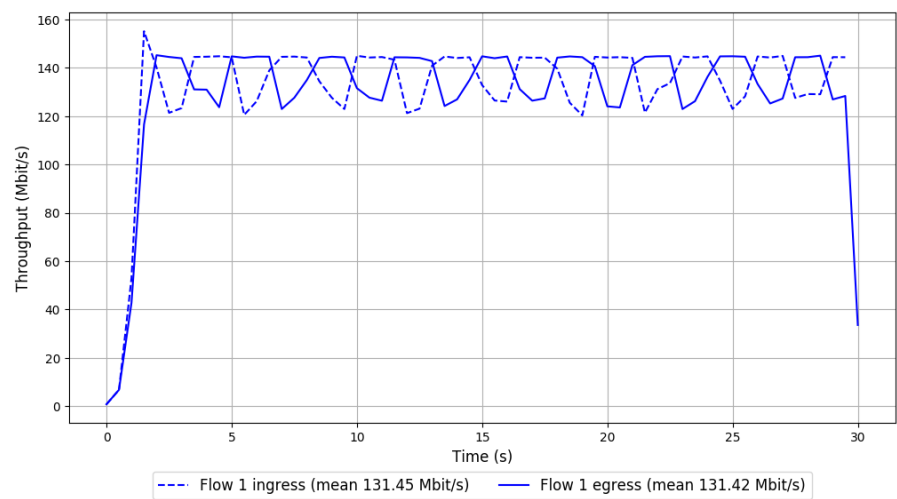
-- Flow 1:

Average throughput: 131.42 Mbit/s

95th percentile per-packet one-way delay: 97.959 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-19 19:37:16

End at: 2018-02-19 19:37:46

# Below is generated by plot.py at 2018-02-19 23:52:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 129.27 Mbit/s

95th percentile per-packet one-way delay: 97.593 ms

Loss rate: 0.07%

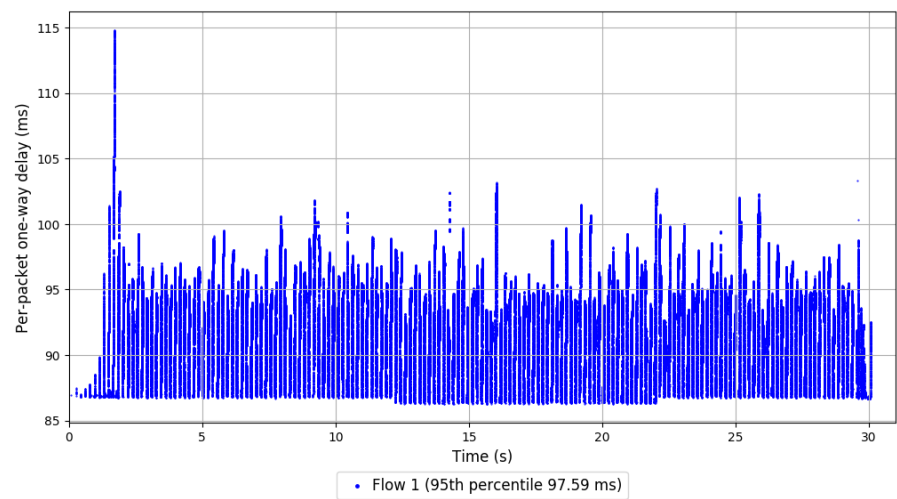
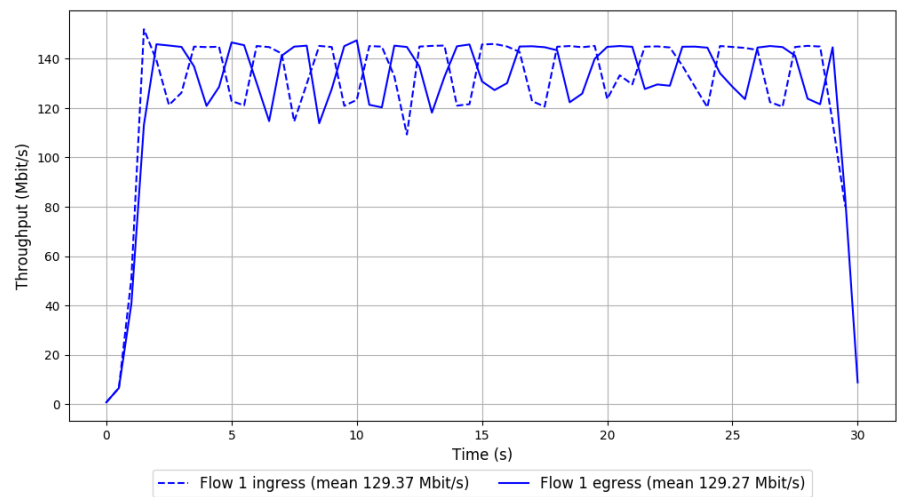
-- Flow 1:

Average throughput: 129.27 Mbit/s

95th percentile per-packet one-way delay: 97.593 ms

Loss rate: 0.07%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-19 19:52:30

End at: 2018-02-19 19:53:00

# Below is generated by plot.py at 2018-02-19 23:52:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 132.03 Mbit/s

95th percentile per-packet one-way delay: 97.048 ms

Loss rate: 0.00%

-- Flow 1:

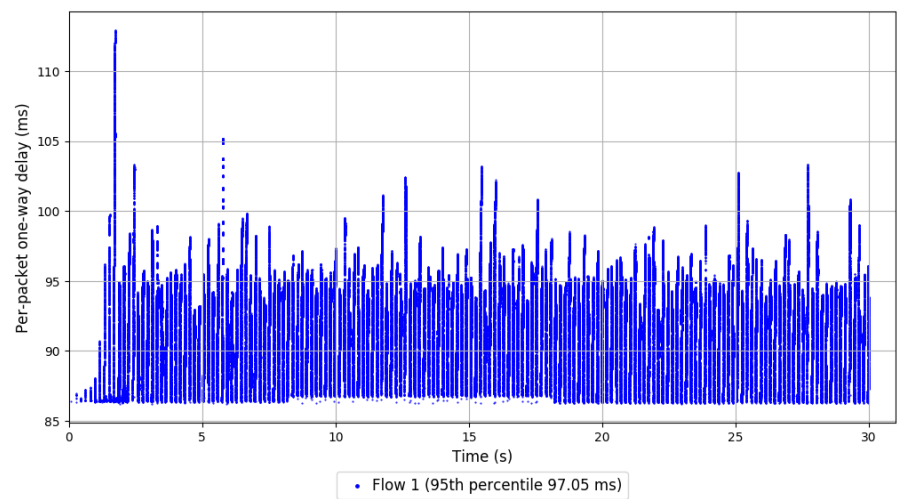
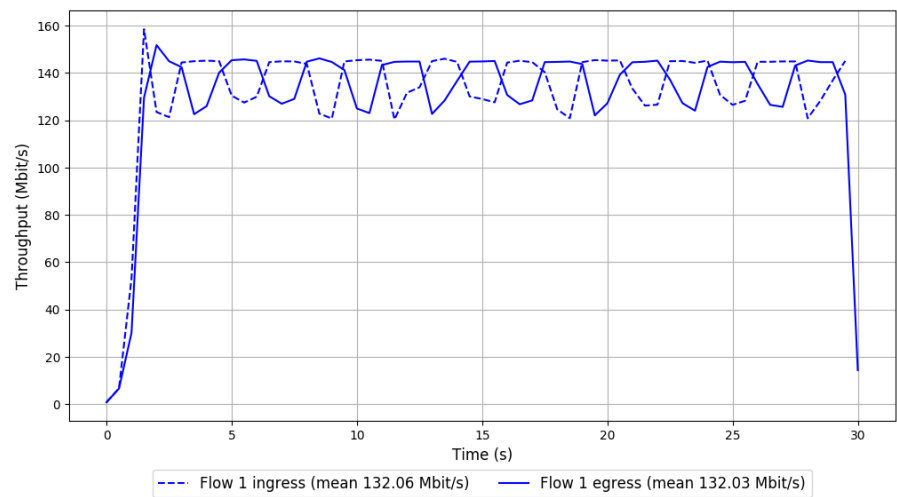
Average throughput: 132.03 Mbit/s

95th percentile per-packet one-way delay: 97.048 ms

Loss rate: 0.00%



Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-19 20:07:46

End at: 2018-02-19 20:08:16

# Below is generated by plot.py at 2018-02-19 23:52:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 103.03 Mbit/s

95th percentile per-packet one-way delay: 96.349 ms

Loss rate: 0.00%

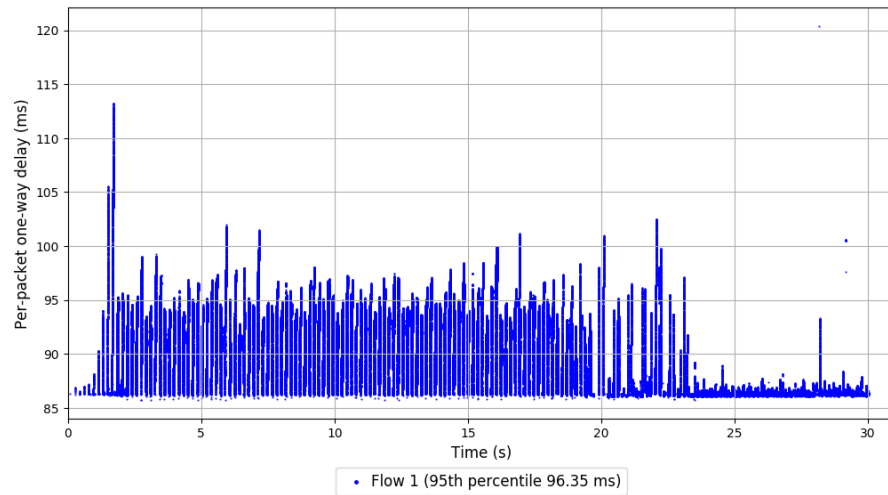
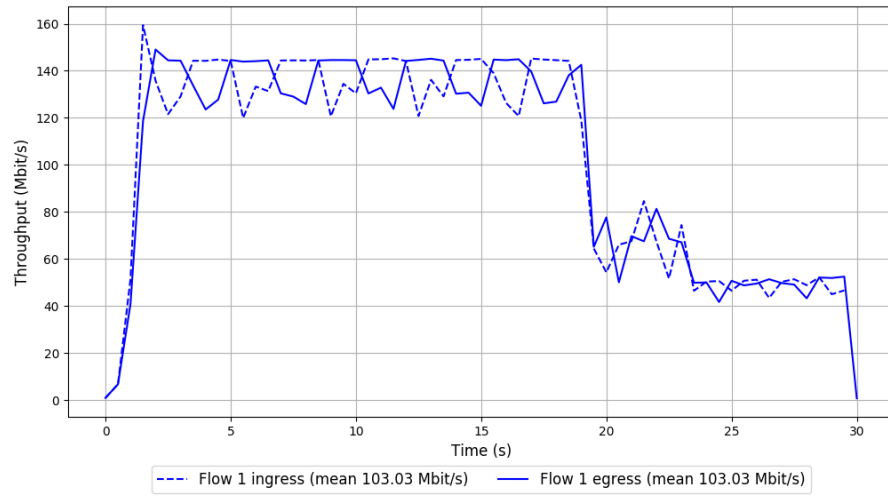
-- Flow 1:

Average throughput: 103.03 Mbit/s

95th percentile per-packet one-way delay: 96.349 ms

Loss rate: 0.00%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-02-19 20:23:11

End at: 2018-02-19 20:23:41

# Below is generated by plot.py at 2018-02-19 23:52:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 124.67 Mbit/s

95th percentile per-packet one-way delay: 99.090 ms

Loss rate: 0.00%

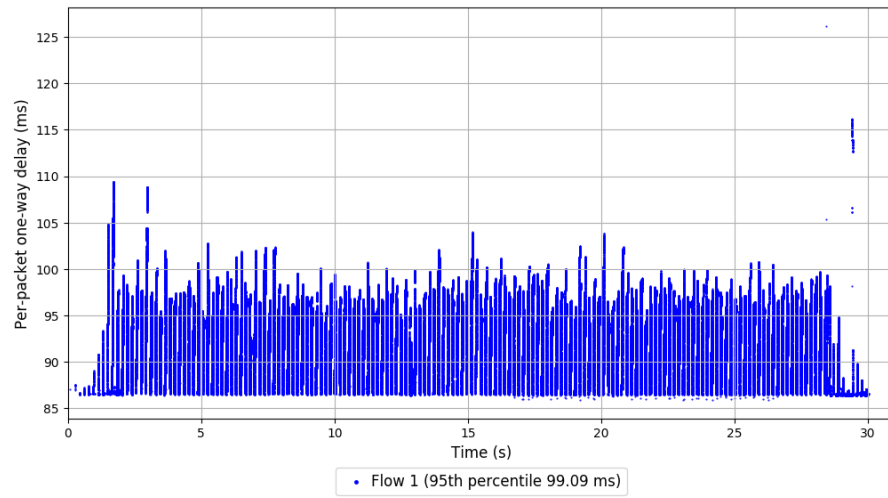
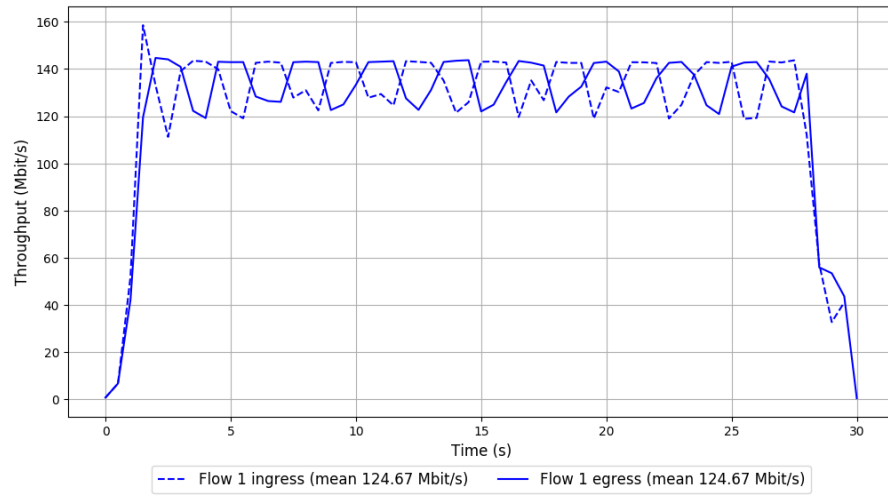
-- Flow 1:

Average throughput: 124.67 Mbit/s

95th percentile per-packet one-way delay: 99.090 ms

Loss rate: 0.00%

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



Run 6: Statistics of TCP Vegas

Start at: 2018-02-19 20:38:39

End at: 2018-02-19 20:39:09

# Below is generated by plot.py at 2018-02-19 23:53:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 132.10 Mbit/s

95th percentile per-packet one-way delay: 96.858 ms

Loss rate: 0.00%

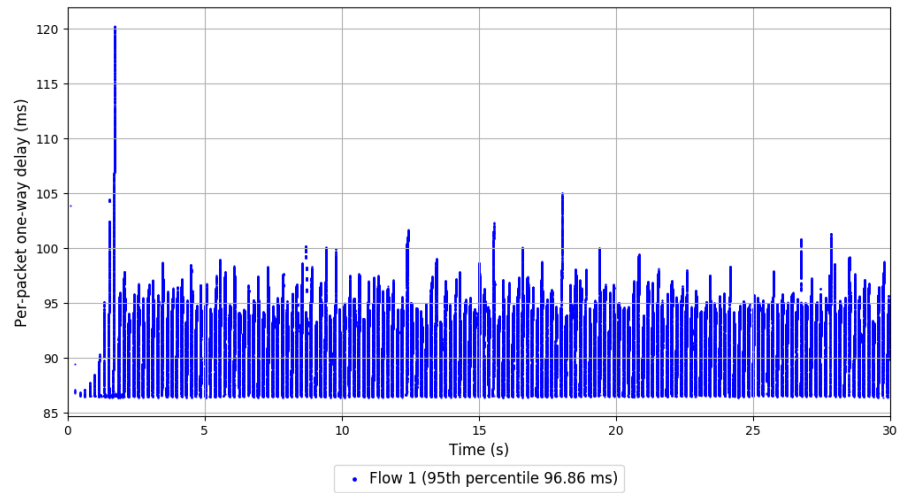
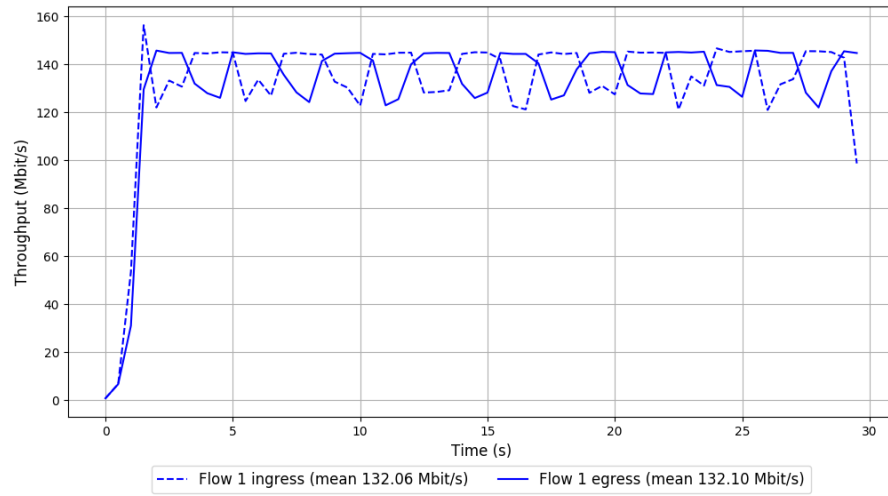
-- Flow 1:

Average throughput: 132.10 Mbit/s

95th percentile per-packet one-way delay: 96.858 ms

Loss rate: 0.00%

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



Run 7: Statistics of TCP Vegas

Start at: 2018-02-19 20:53:53

End at: 2018-02-19 20:54:23

# Below is generated by plot.py at 2018-02-19 23:53:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.49 Mbit/s

95th percentile per-packet one-way delay: 88.040 ms

Loss rate: 0.00%

-- Flow 1:

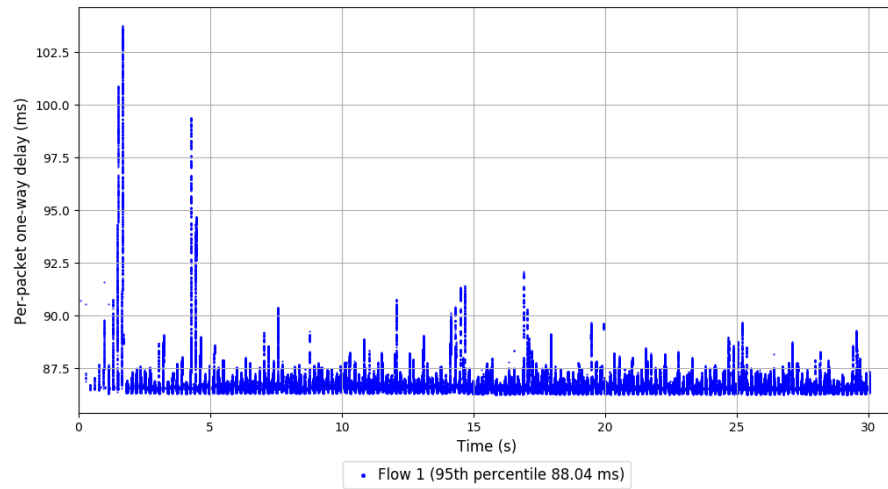
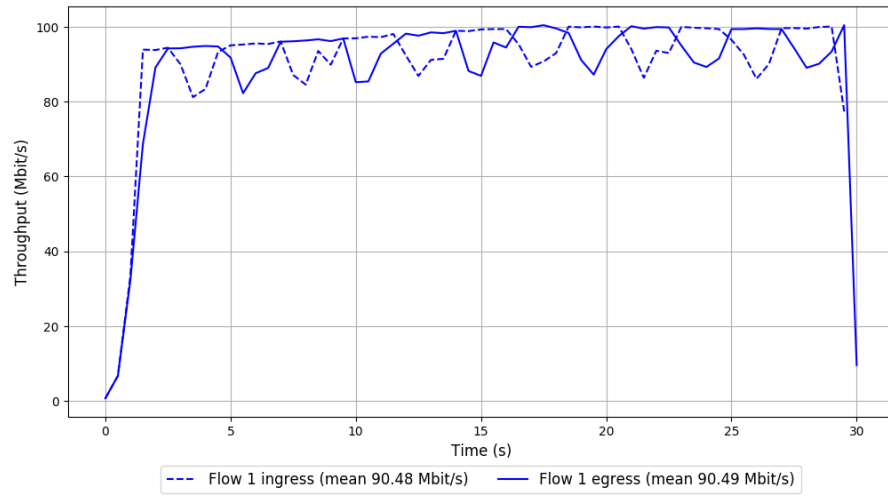
Average throughput: 90.49 Mbit/s

95th percentile per-packet one-way delay: 88.040 ms

Loss rate: 0.00%



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



Run 8: Statistics of TCP Vegas

Start at: 2018-02-19 21:08:56

End at: 2018-02-19 21:09:26

# Below is generated by plot.py at 2018-02-19 23:53:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 39.00 Mbit/s

95th percentile per-packet one-way delay: 115.870 ms

Loss rate: 0.00%

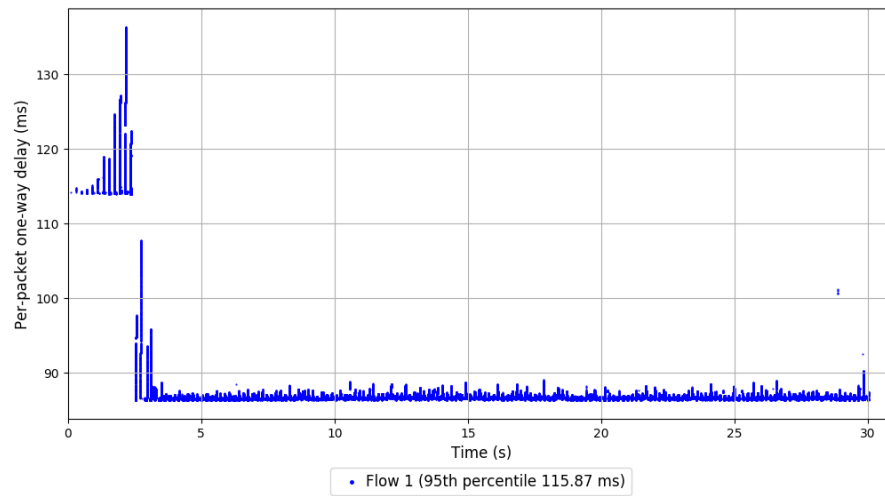
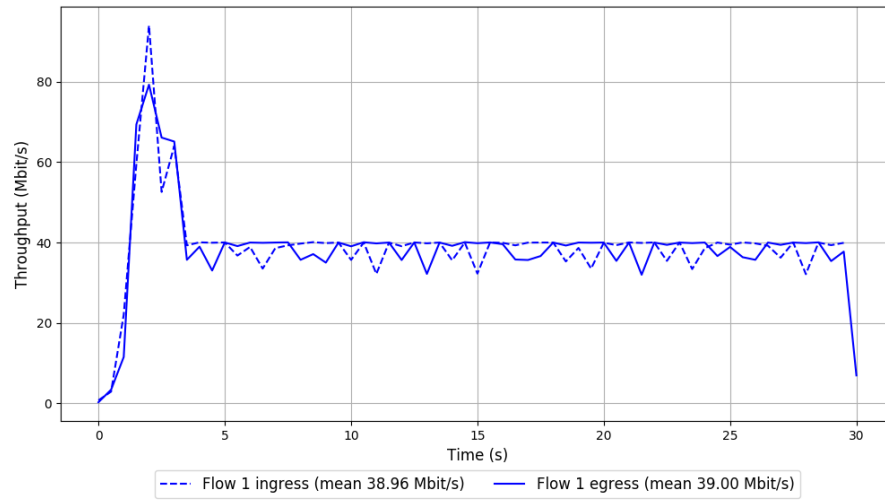
-- Flow 1:

Average throughput: 39.00 Mbit/s

95th percentile per-packet one-way delay: 115.870 ms

Loss rate: 0.00%

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



Run 9: Statistics of TCP Vegas

Start at: 2018-02-19 21:24:02

End at: 2018-02-19 21:24:32

# Below is generated by plot.py at 2018-02-19 23:53:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 116.30 Mbit/s

95th percentile per-packet one-way delay: 124.542 ms

Loss rate: 0.00%

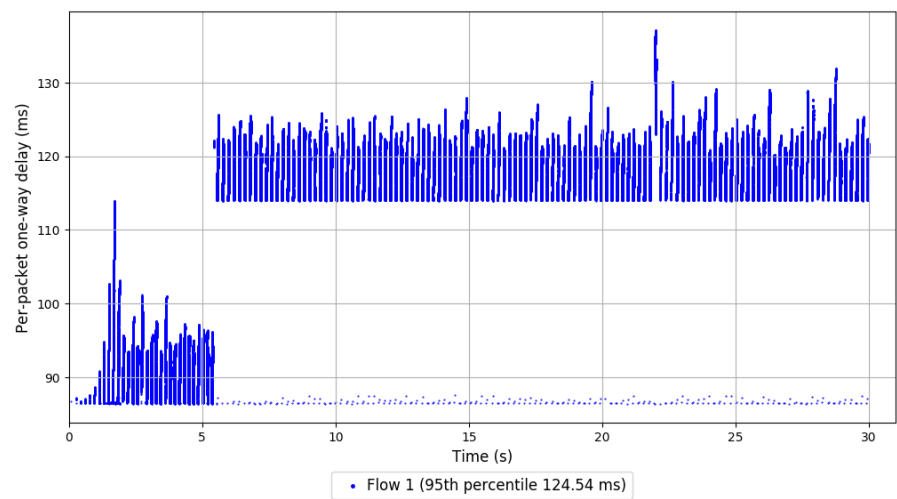
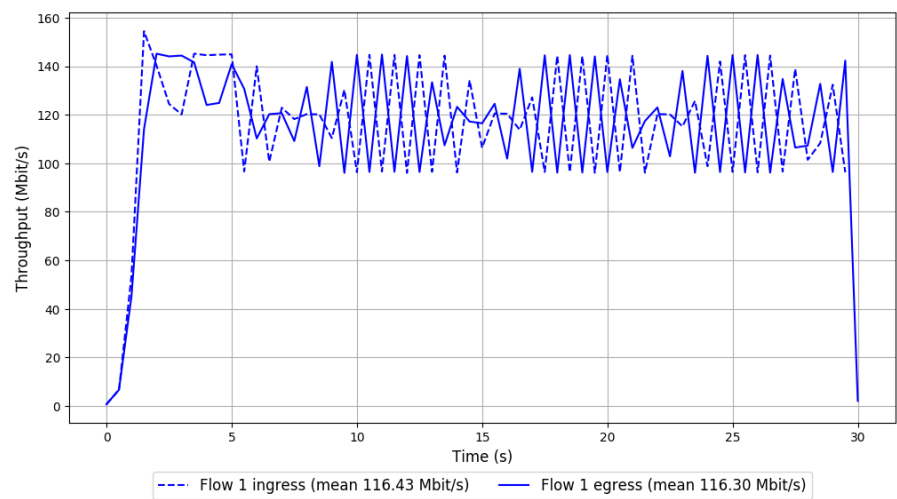
-- Flow 1:

Average throughput: 116.30 Mbit/s

95th percentile per-packet one-way delay: 124.542 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-19 21:39:05

End at: 2018-02-19 21:39:35

# Below is generated by plot.py at 2018-02-19 23:53:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 91.157 ms

Loss rate: 0.00%

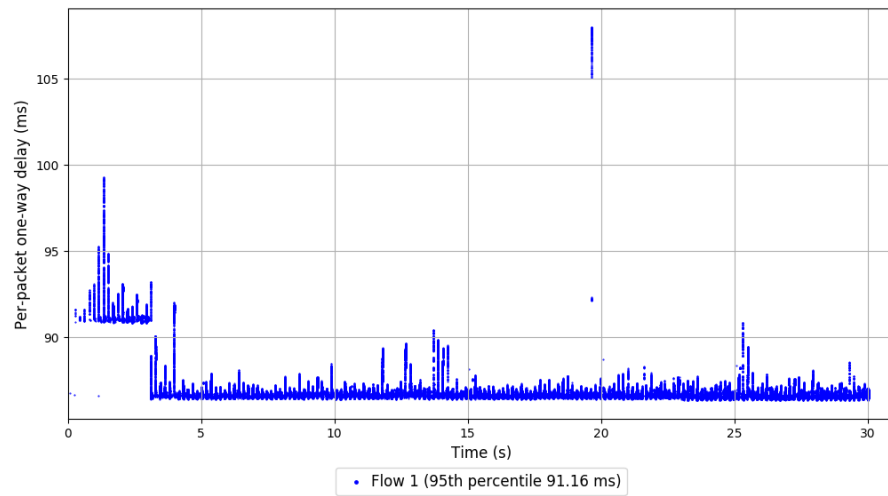
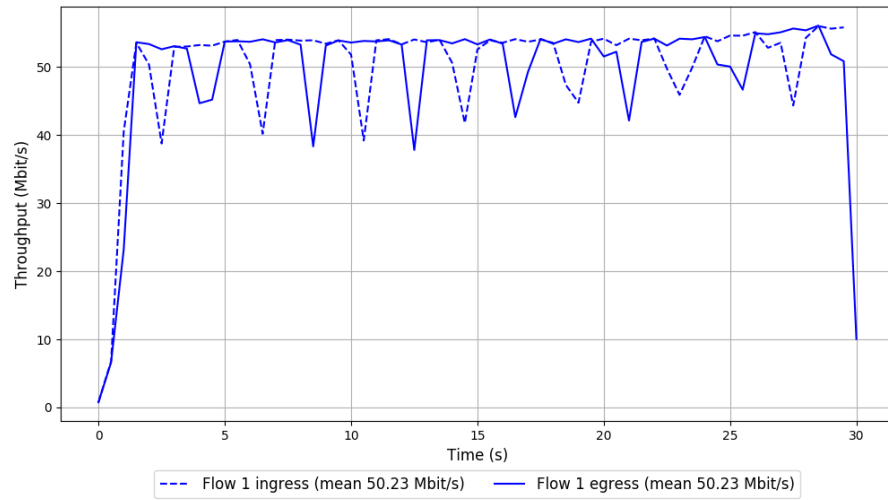
-- Flow 1:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 91.157 ms

Loss rate: 0.00%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-19 19:34:34

End at: 2018-02-19 19:35:04

# Below is generated by plot.py at 2018-02-19 23:55:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 191.55 Mbit/s

95th percentile per-packet one-way delay: 150.894 ms

Loss rate: 0.71%

-- Flow 1:

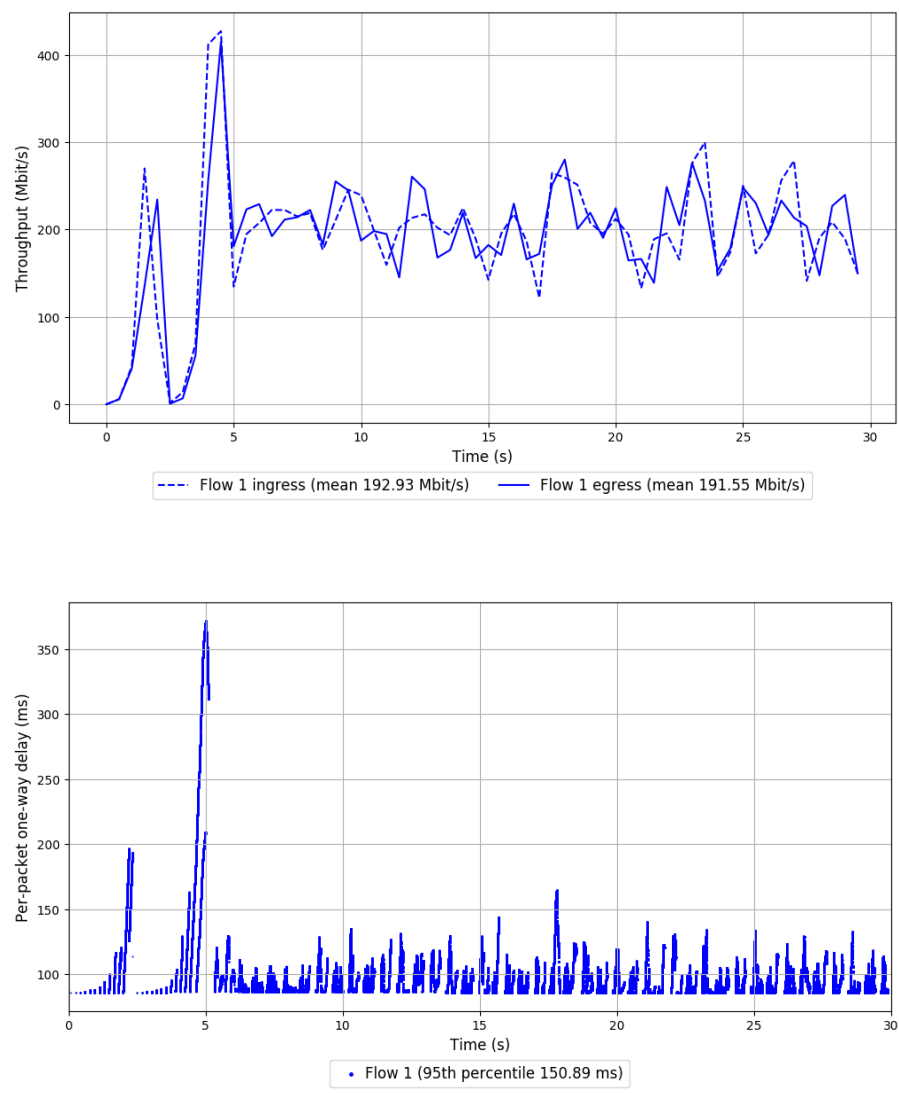
Average throughput: 191.55 Mbit/s

95th percentile per-packet one-way delay: 150.894 ms

Loss rate: 0.71%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-19 19:49:42

End at: 2018-02-19 19:50:12

# Below is generated by plot.py at 2018-02-19 23:55:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 203.39 Mbit/s

95th percentile per-packet one-way delay: 154.169 ms

Loss rate: 1.89%

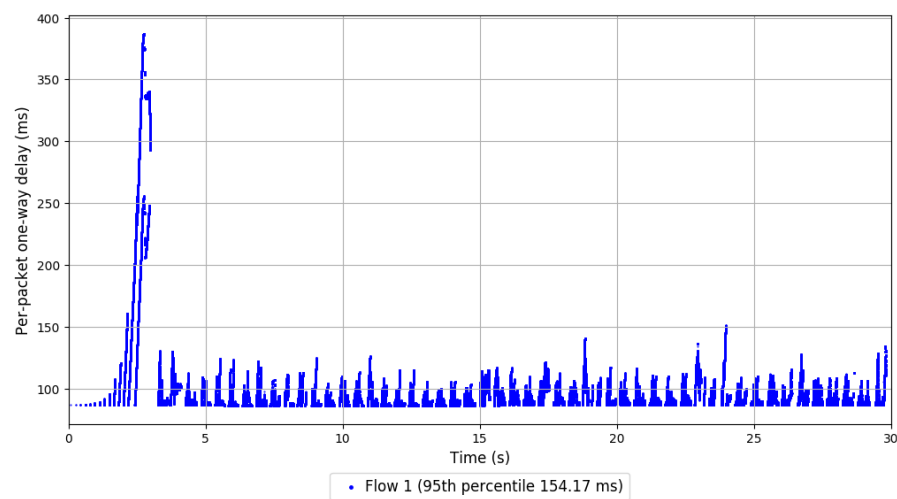
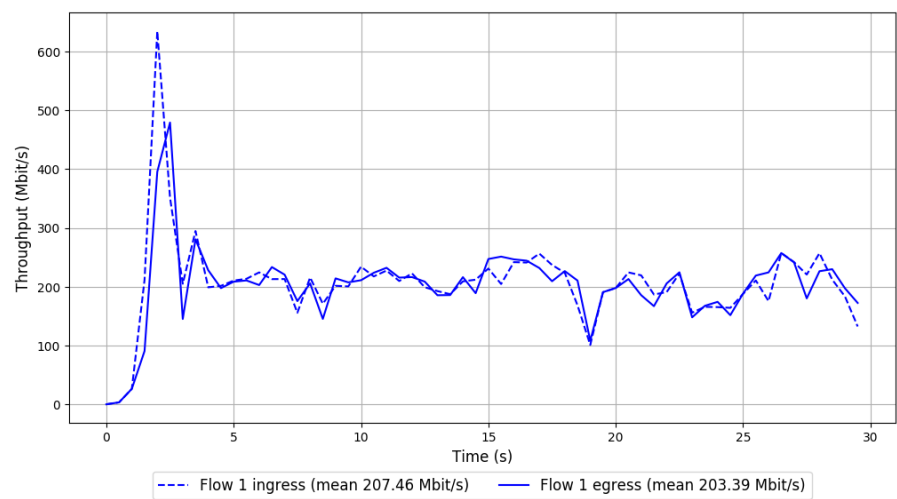
-- Flow 1:

Average throughput: 203.39 Mbit/s

95th percentile per-packet one-way delay: 154.169 ms

Loss rate: 1.89%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-19 20:05:08

End at: 2018-02-19 20:05:38

# Below is generated by plot.py at 2018-02-19 23:55:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 200.45 Mbit/s

95th percentile per-packet one-way delay: 146.572 ms

Loss rate: 0.00%

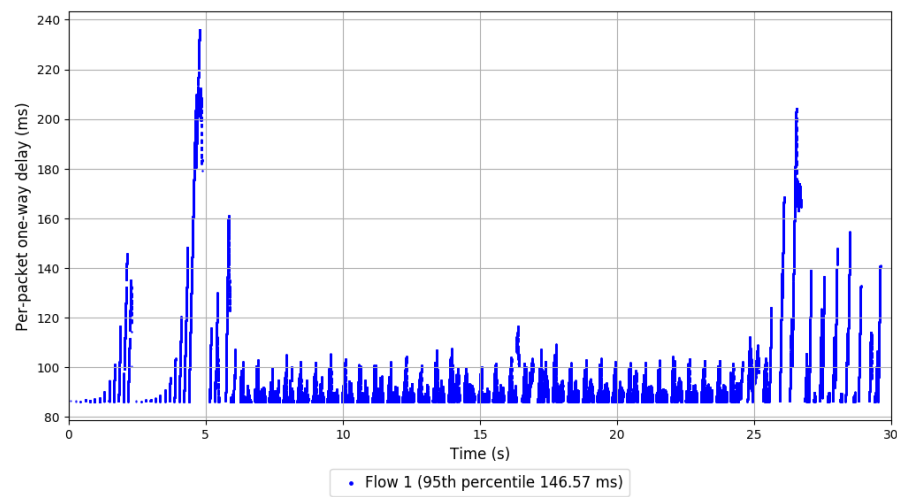
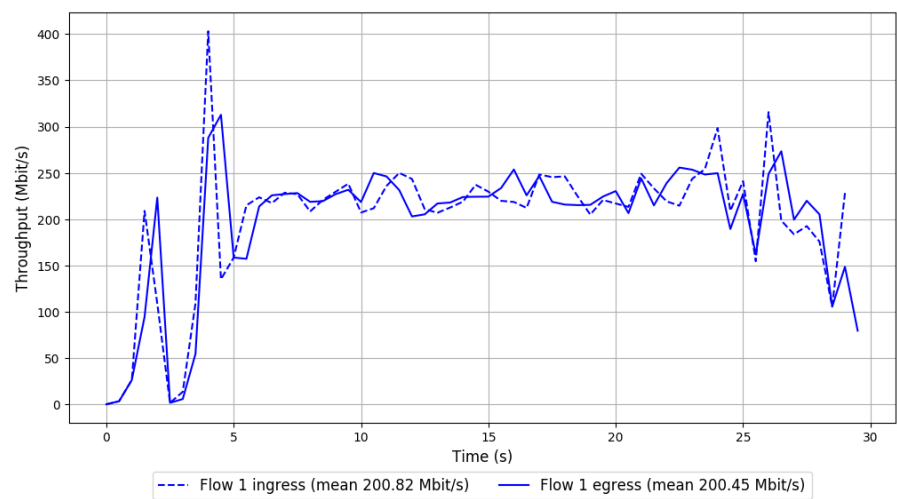
-- Flow 1:

Average throughput: 200.45 Mbit/s

95th percentile per-packet one-way delay: 146.572 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-19 20:20:19

End at: 2018-02-19 20:20:49

# Below is generated by plot.py at 2018-02-19 23:56:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.77 Mbit/s

95th percentile per-packet one-way delay: 270.173 ms

Loss rate: 1.80%

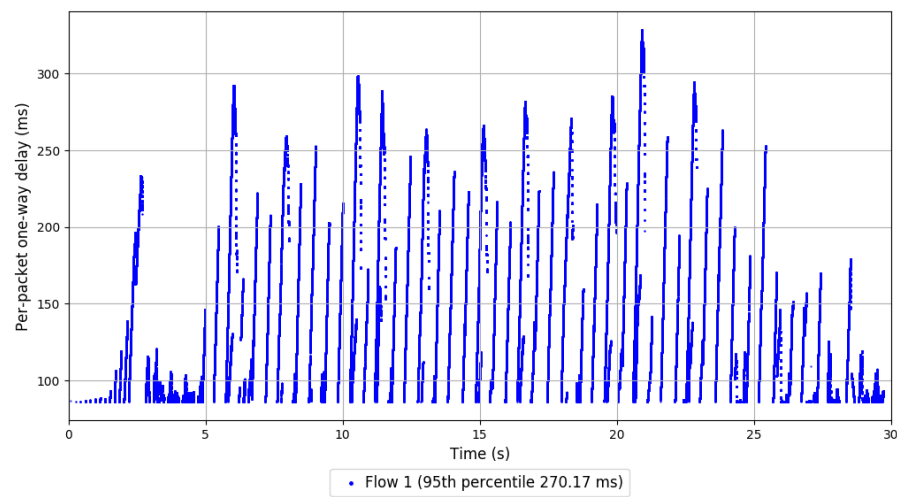
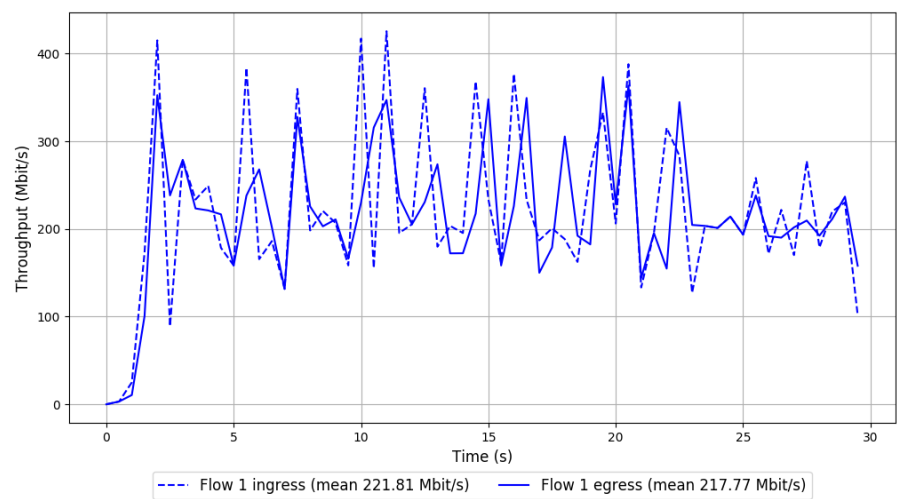
-- Flow 1:

Average throughput: 217.77 Mbit/s

95th percentile per-packet one-way delay: 270.173 ms

Loss rate: 1.80%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-19 20:35:53

End at: 2018-02-19 20:36:23

# Below is generated by plot.py at 2018-02-19 23:56:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 178.40 Mbit/s

95th percentile per-packet one-way delay: 258.140 ms

Loss rate: 1.33%

-- Flow 1:

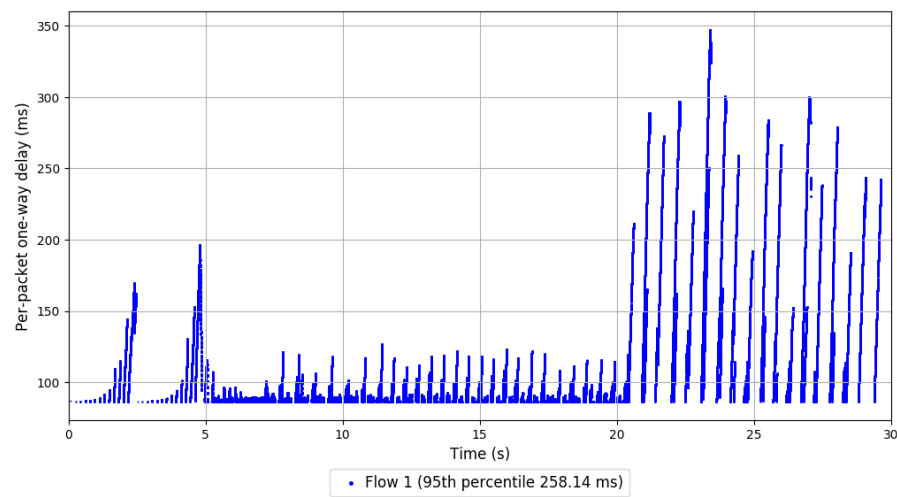
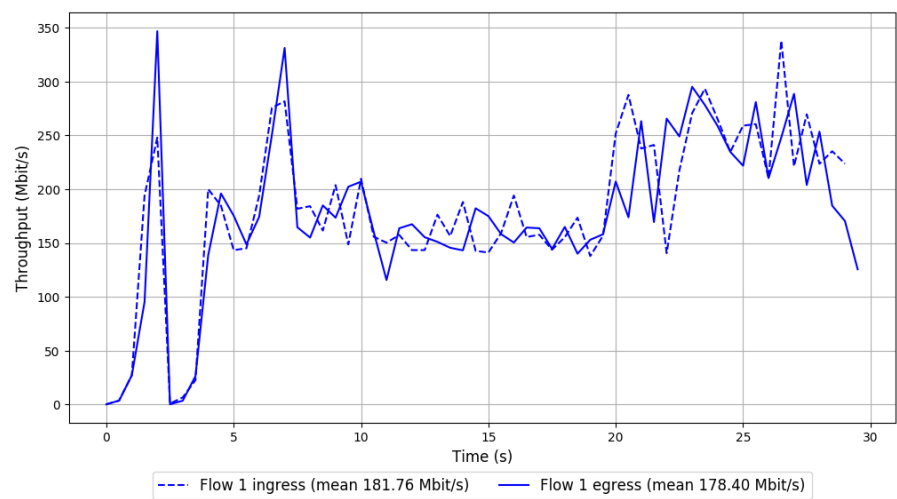
Average throughput: 178.40 Mbit/s

95th percentile per-packet one-way delay: 258.140 ms

Loss rate: 1.33%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-19 20:51:04

End at: 2018-02-19 20:51:34

# Below is generated by plot.py at 2018-02-19 23:56:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 208.69 Mbit/s

95th percentile per-packet one-way delay: 135.185 ms

Loss rate: 0.12%

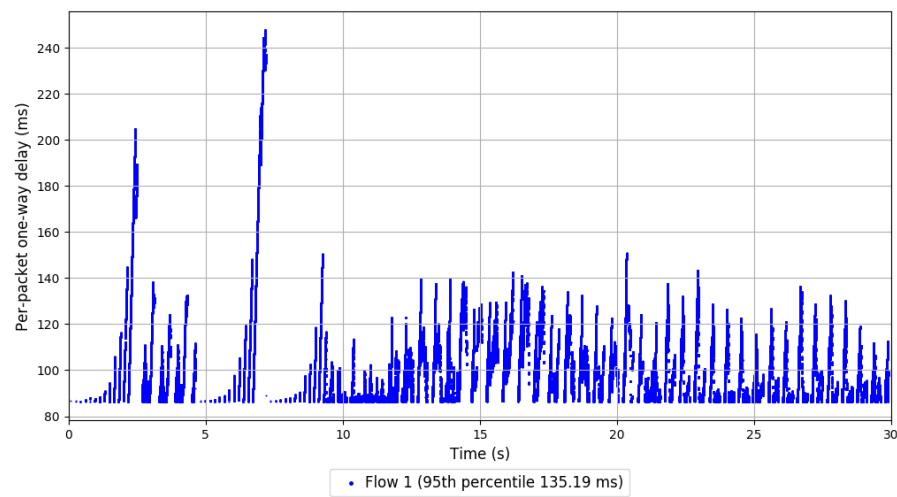
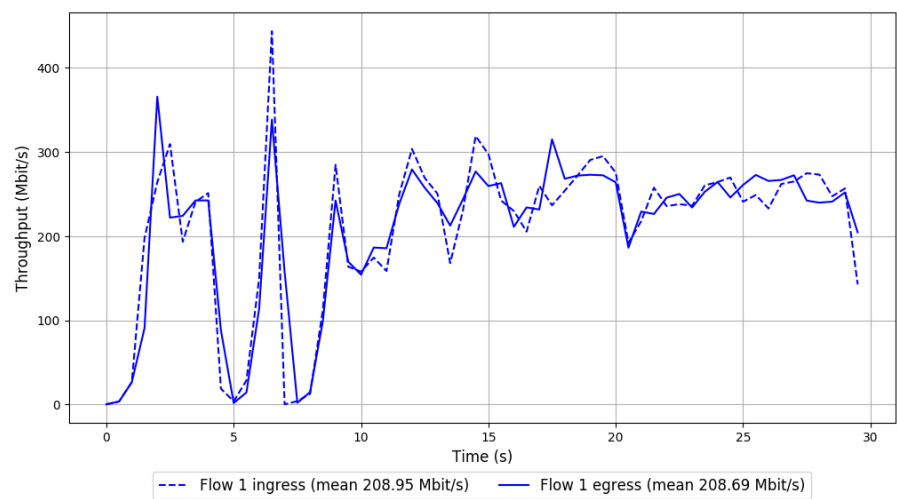
-- Flow 1:

Average throughput: 208.69 Mbit/s

95th percentile per-packet one-way delay: 135.185 ms

Loss rate: 0.12%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-19 21:06:11

End at: 2018-02-19 21:06:41

# Below is generated by plot.py at 2018-02-19 23:56:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 150.53 Mbit/s

95th percentile per-packet one-way delay: 190.056 ms

Loss rate: 0.47%

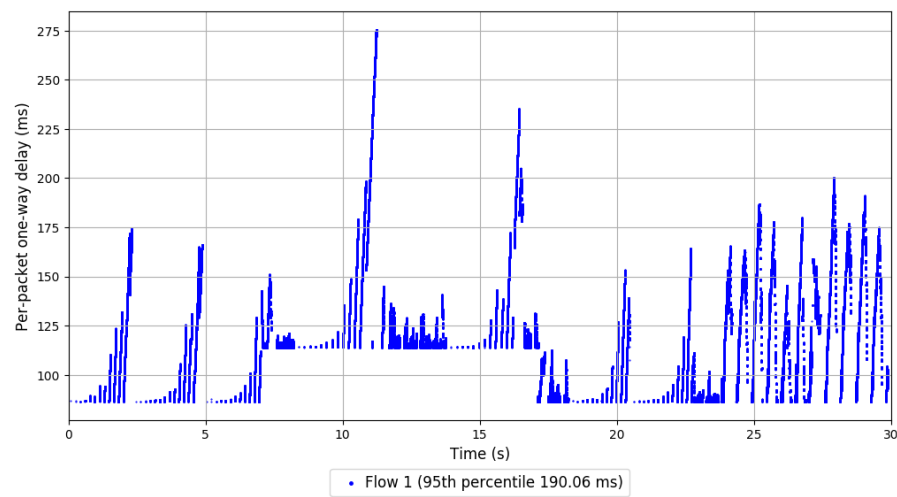
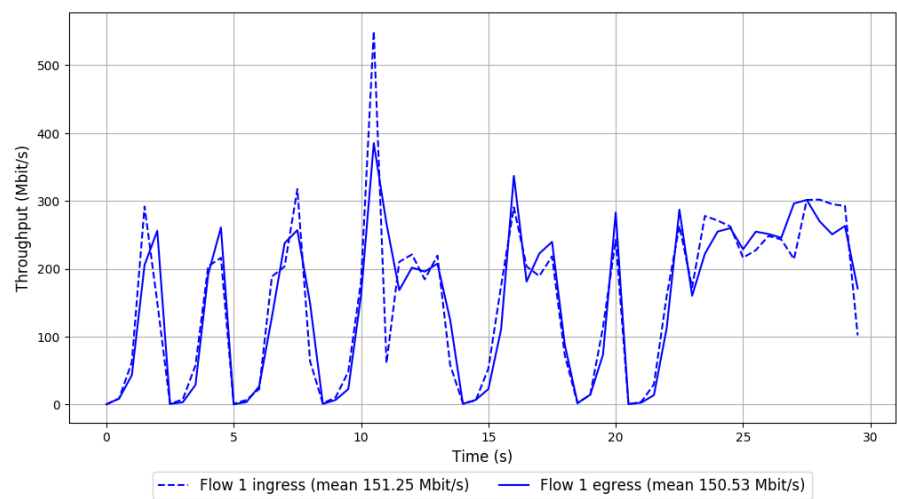
-- Flow 1:

Average throughput: 150.53 Mbit/s

95th percentile per-packet one-way delay: 190.056 ms

Loss rate: 0.47%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-19 21:21:17

End at: 2018-02-19 21:21:47

# Below is generated by plot.py at 2018-02-19 23:56:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 141.01 Mbit/s

95th percentile per-packet one-way delay: 154.230 ms

Loss rate: 0.23%

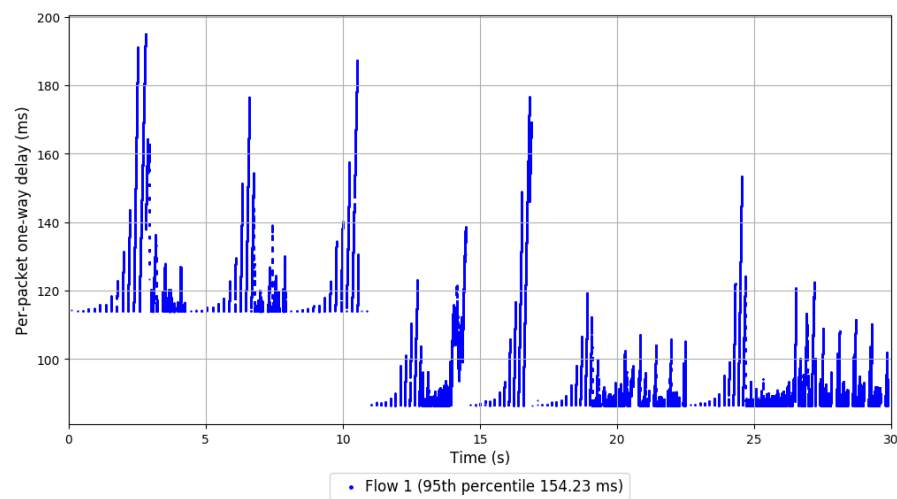
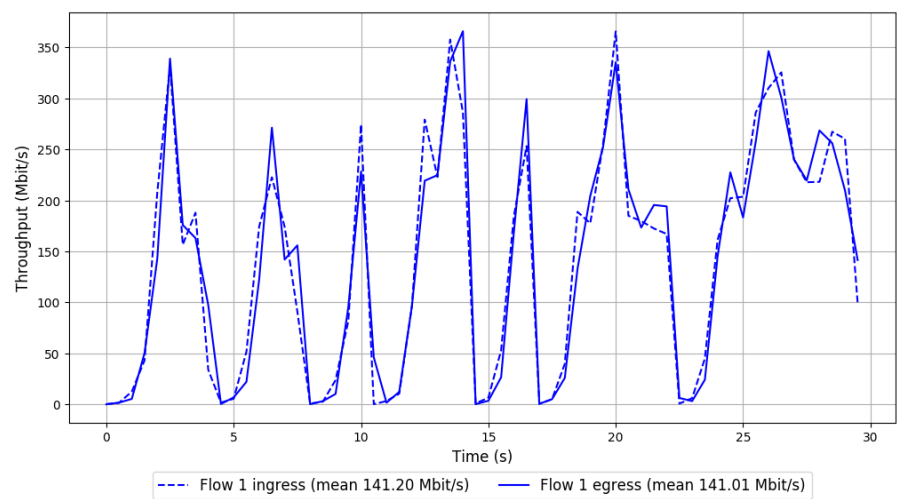
-- Flow 1:

Average throughput: 141.01 Mbit/s

95th percentile per-packet one-way delay: 154.230 ms

Loss rate: 0.23%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-19 21:36:14

End at: 2018-02-19 21:36:44

# Below is generated by plot.py at 2018-02-19 23:59:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 248.23 Mbit/s

95th percentile per-packet one-way delay: 293.498 ms

Loss rate: 3.64%

-- Flow 1:

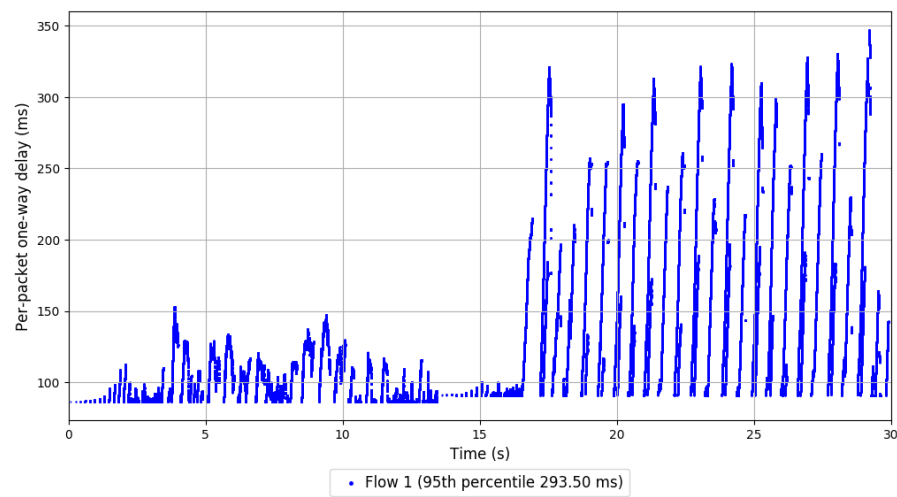
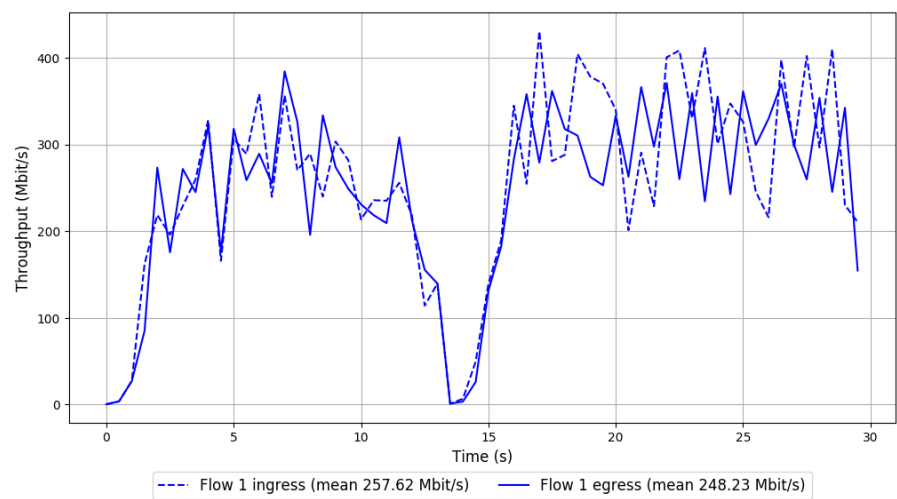
Average throughput: 248.23 Mbit/s

95th percentile per-packet one-way delay: 293.498 ms

Loss rate: 3.64%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-19 21:51:20

End at: 2018-02-19 21:51:50

# Below is generated by plot.py at 2018-02-19 23:59:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 239.33 Mbit/s

95th percentile per-packet one-way delay: 153.175 ms

Loss rate: 1.30%

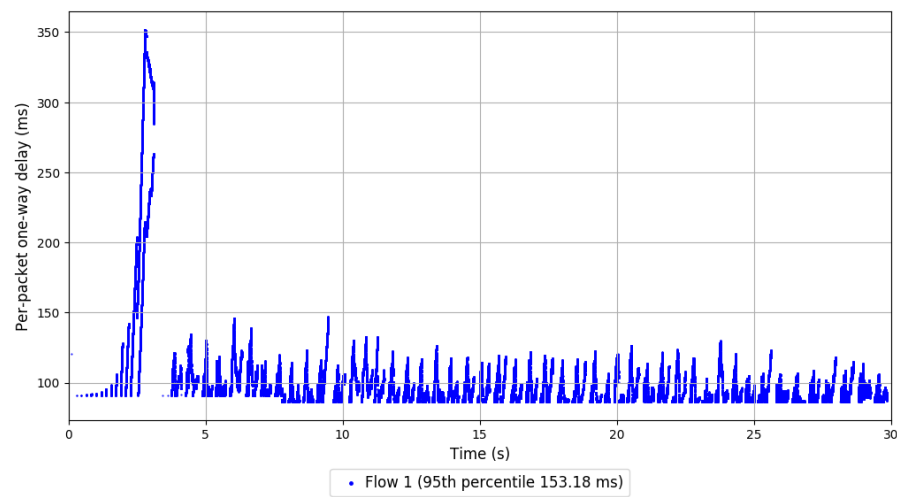
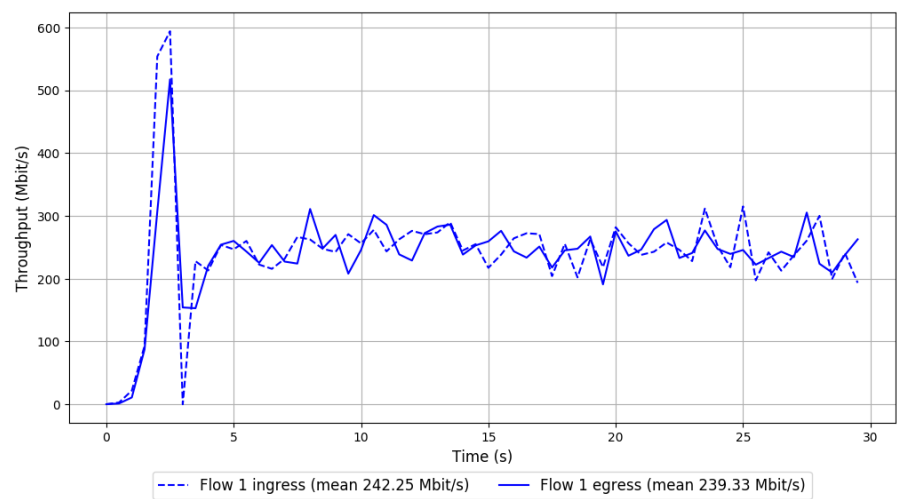
-- Flow 1:

Average throughput: 239.33 Mbit/s

95th percentile per-packet one-way delay: 153.175 ms

Loss rate: 1.30%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-19 19:28:53

End at: 2018-02-19 19:29:23

# Below is generated by plot.py at 2018-02-19 23:59:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.20 Mbit/s

95th percentile per-packet one-way delay: 90.373 ms

Loss rate: 0.00%

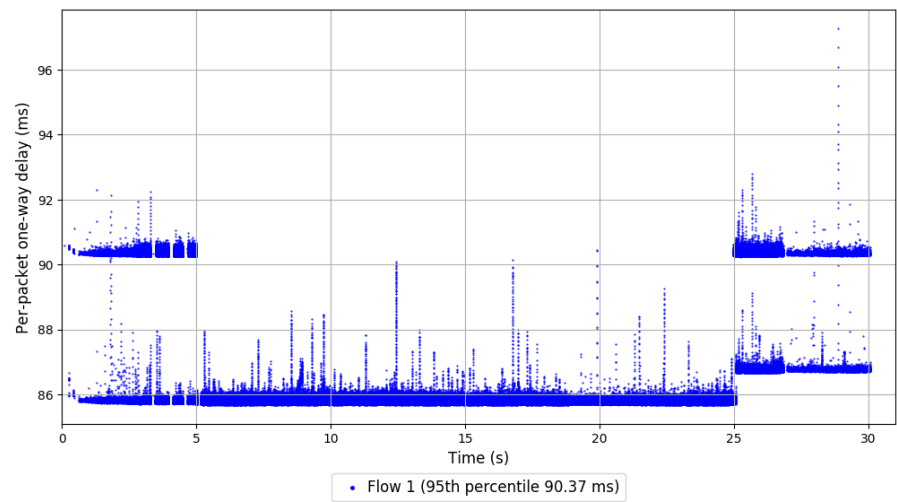
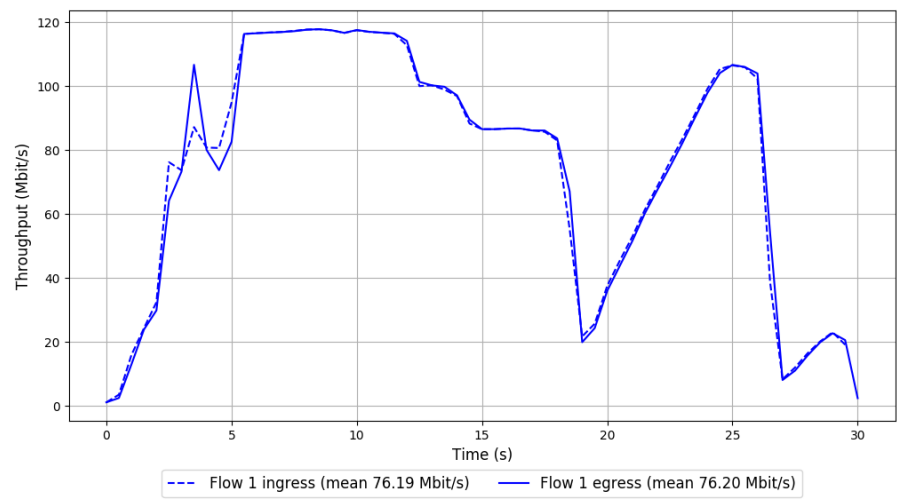
-- Flow 1:

Average throughput: 76.20 Mbit/s

95th percentile per-packet one-way delay: 90.373 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-19 19:44:03

End at: 2018-02-19 19:44:33

# Below is generated by plot.py at 2018-02-19 23:59:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.51 Mbit/s

95th percentile per-packet one-way delay: 86.796 ms

Loss rate: 0.00%

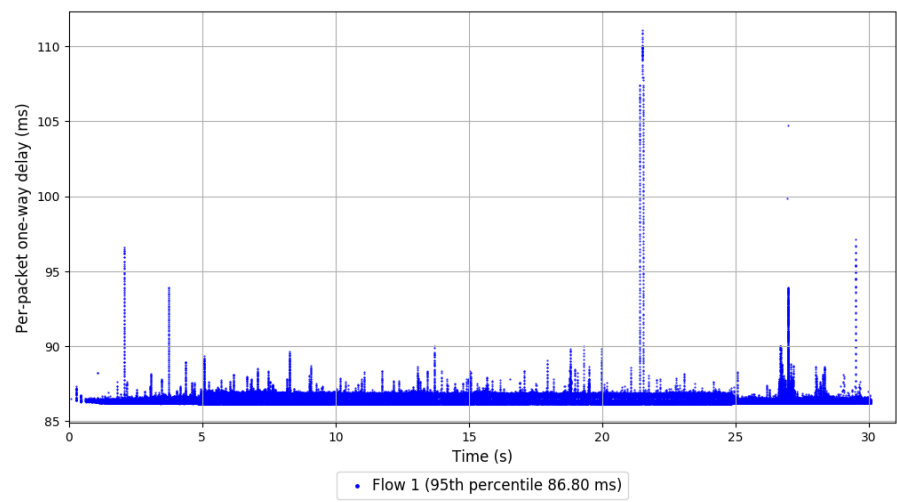
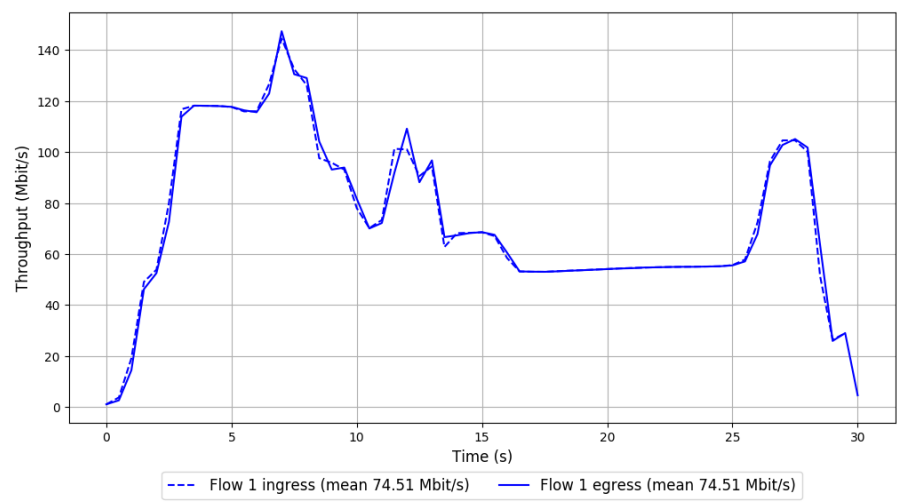
-- Flow 1:

Average throughput: 74.51 Mbit/s

95th percentile per-packet one-way delay: 86.796 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-19 19:59:19

End at: 2018-02-19 19:59:49

# Below is generated by plot.py at 2018-02-19 23:59:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.77 Mbit/s

95th percentile per-packet one-way delay: 86.401 ms

Loss rate: 0.02%

-- Flow 1:

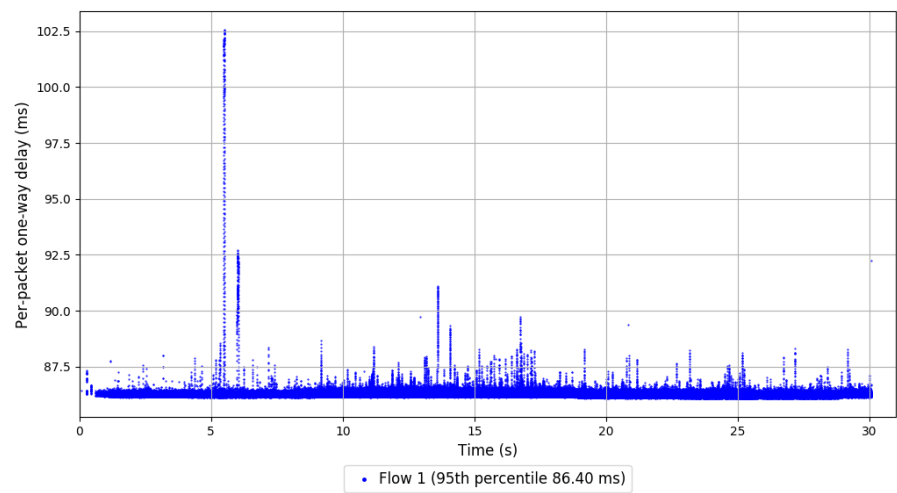
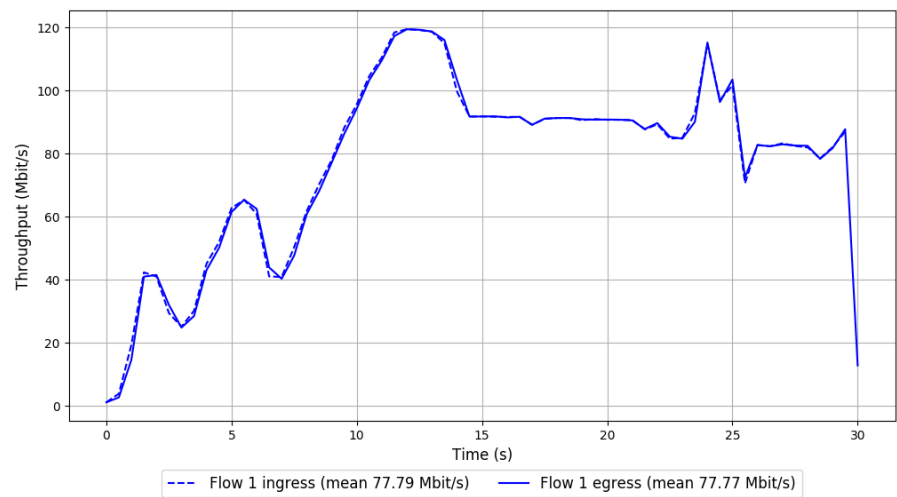
Average throughput: 77.77 Mbit/s

95th percentile per-packet one-way delay: 86.401 ms

Loss rate: 0.02%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-19 20:14:29

End at: 2018-02-19 20:14:59

# Below is generated by plot.py at 2018-02-19 23:59:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.40 Mbit/s

95th percentile per-packet one-way delay: 86.786 ms

Loss rate: 0.00%

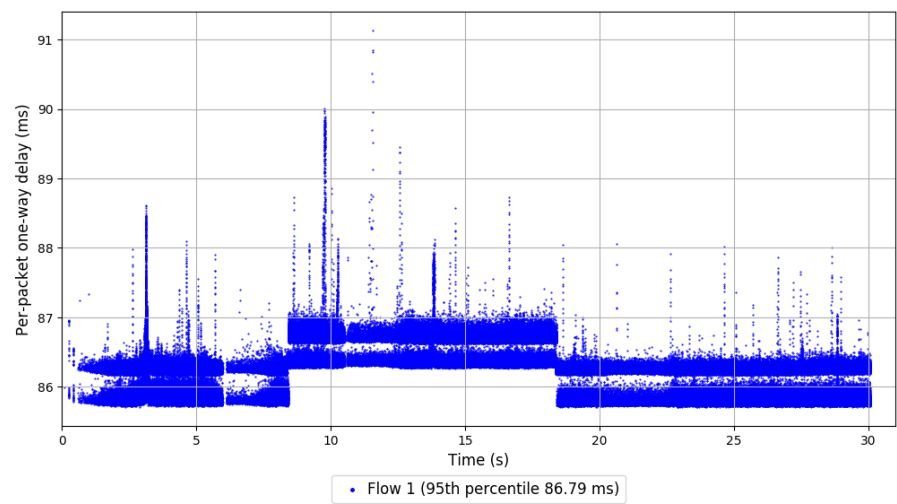
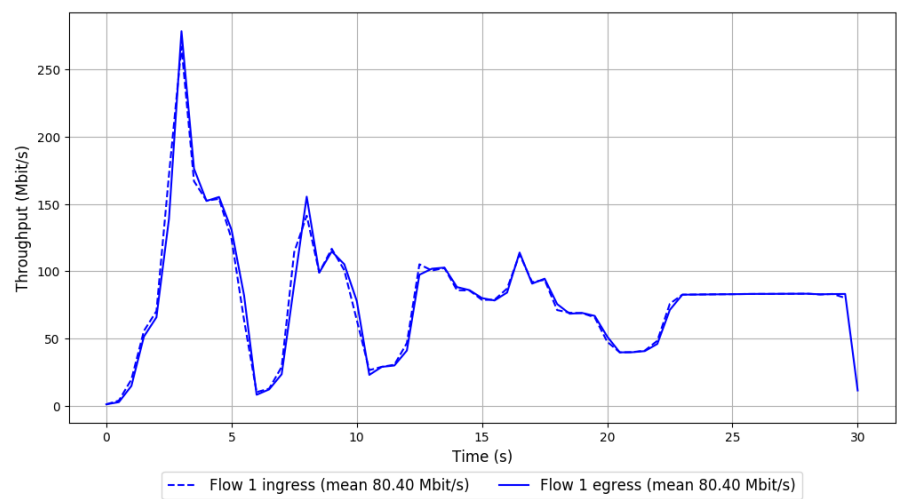
-- Flow 1:

Average throughput: 80.40 Mbit/s

95th percentile per-packet one-way delay: 86.786 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-19 20:30:05

End at: 2018-02-19 20:30:35

# Below is generated by plot.py at 2018-02-19 23:59:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.65 Mbit/s

95th percentile per-packet one-way delay: 86.531 ms

Loss rate: 0.00%

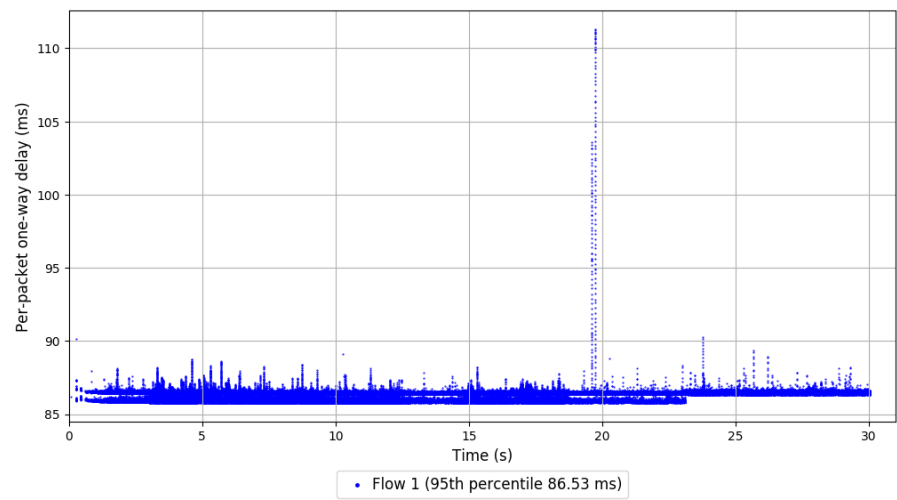
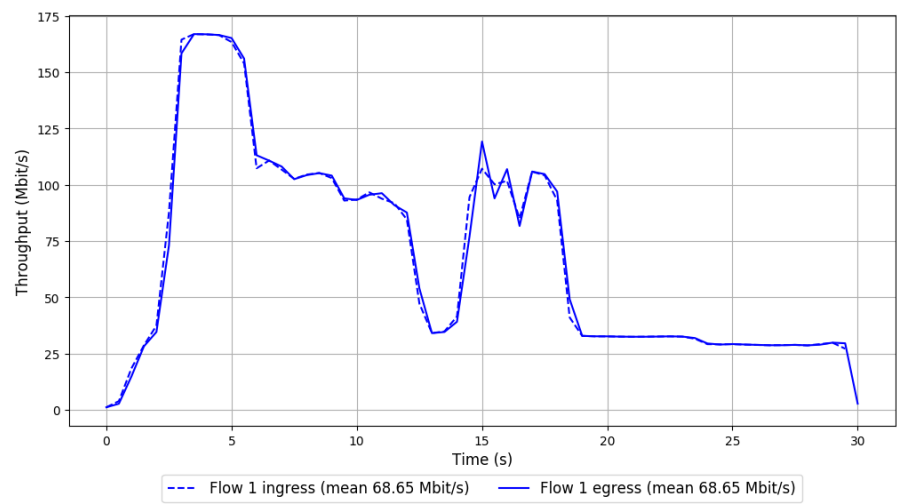
-- Flow 1:

Average throughput: 68.65 Mbit/s

95th percentile per-packet one-way delay: 86.531 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-19 20:45:15

End at: 2018-02-19 20:45:45

# Below is generated by plot.py at 2018-02-19 23:59:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.89 Mbit/s

95th percentile per-packet one-way delay: 86.922 ms

Loss rate: 0.00%

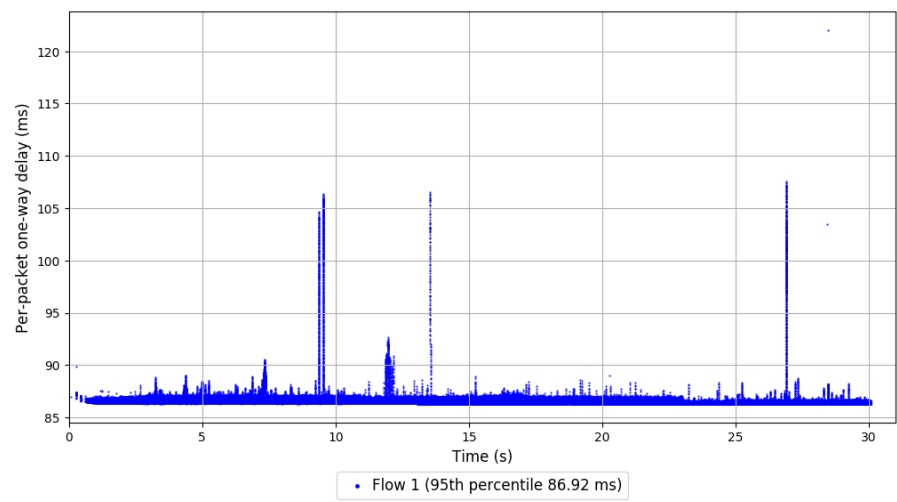
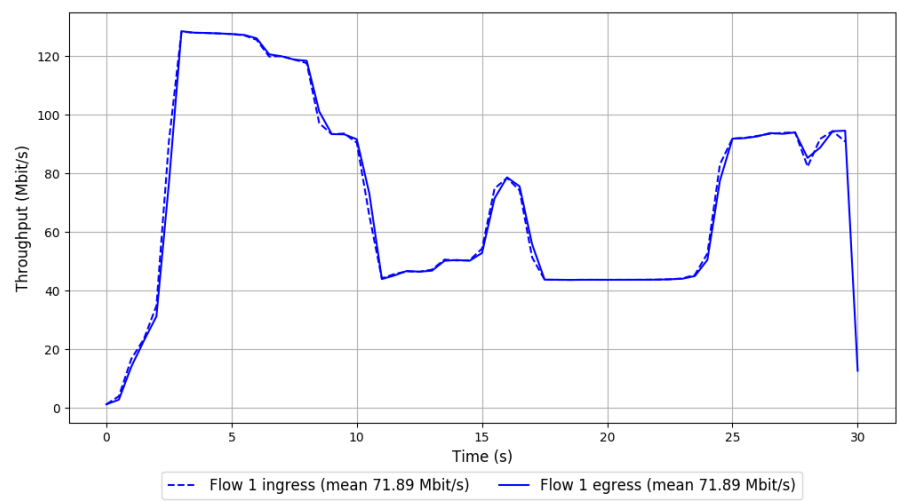
-- Flow 1:

Average throughput: 71.89 Mbit/s

95th percentile per-packet one-way delay: 86.922 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-19 21:00:41

End at: 2018-02-19 21:01:11

# Below is generated by plot.py at 2018-02-19 23:59:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 36.64 Mbit/s

95th percentile per-packet one-way delay: 113.925 ms

Loss rate: 0.00%

-- Flow 1:

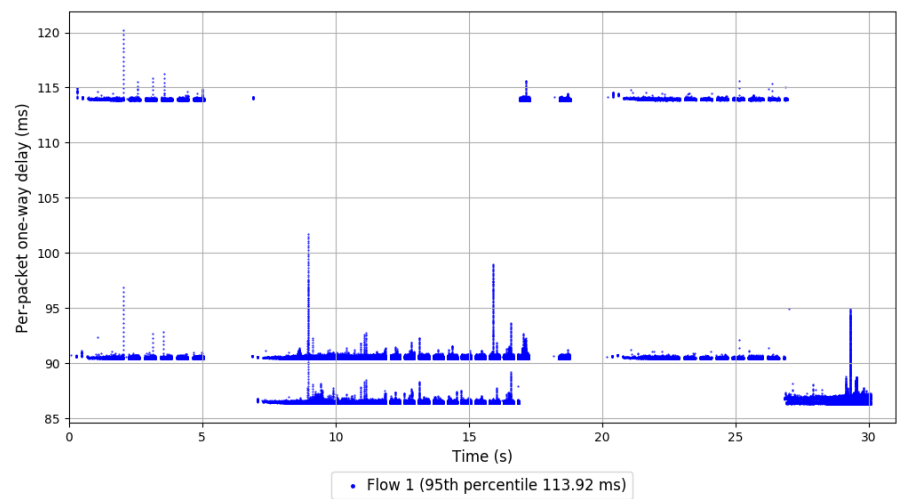
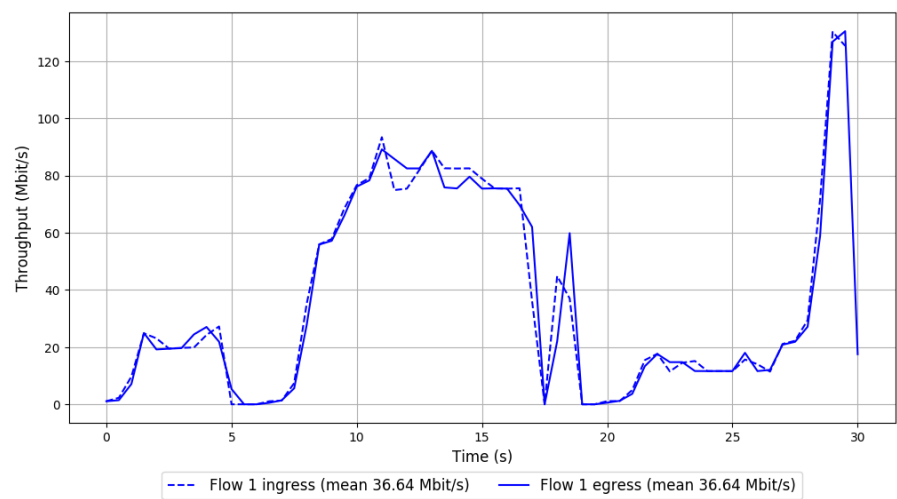
Average throughput: 36.64 Mbit/s

95th percentile per-packet one-way delay: 113.925 ms

Loss rate: 0.00%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-19 21:15:34

End at: 2018-02-19 21:16:04

# Below is generated by plot.py at 2018-02-20 00:00:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 86.795 ms

Loss rate: 0.00%

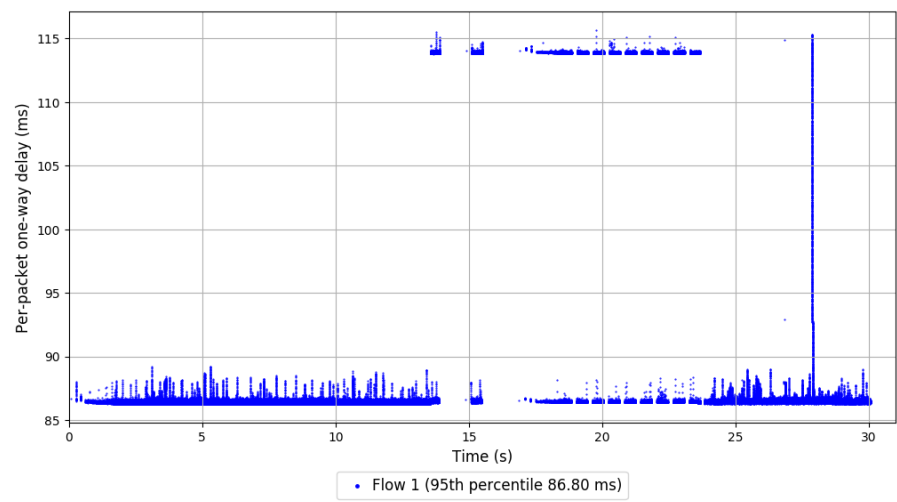
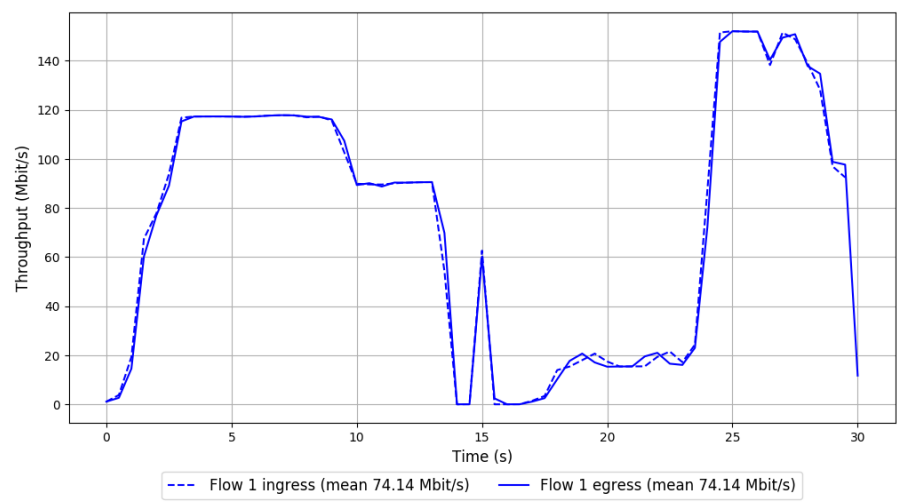
-- Flow 1:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 86.795 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-19 21:30:30

End at: 2018-02-19 21:31:00

# Below is generated by plot.py at 2018-02-20 00:00:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.56 Mbit/s

95th percentile per-packet one-way delay: 91.017 ms

Loss rate: 0.00%

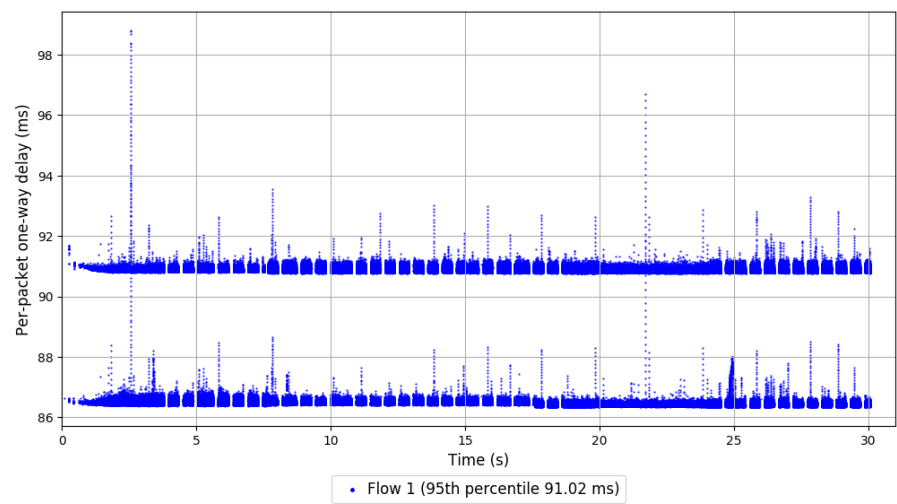
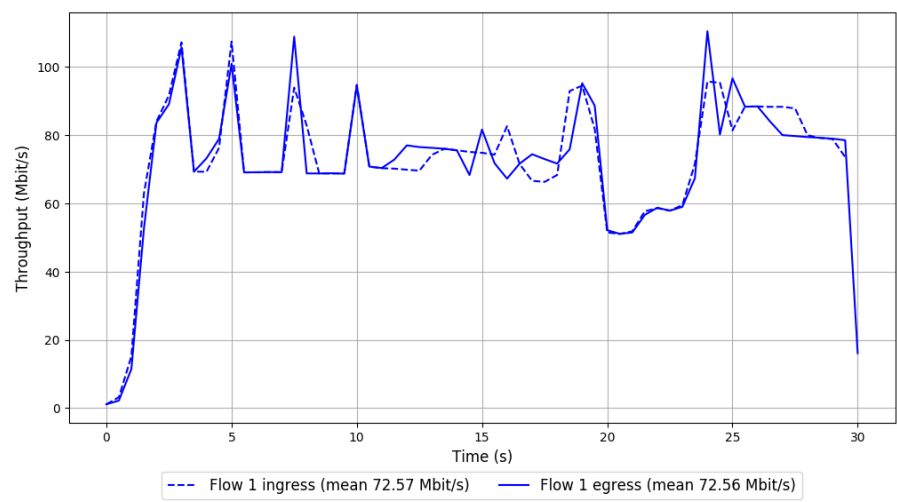
-- Flow 1:

Average throughput: 72.56 Mbit/s

95th percentile per-packet one-way delay: 91.017 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-19 21:45:35

End at: 2018-02-19 21:46:05

# Below is generated by plot.py at 2018-02-20 00:02:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 133.05 Mbit/s

95th percentile per-packet one-way delay: 326.333 ms

Loss rate: 29.14%

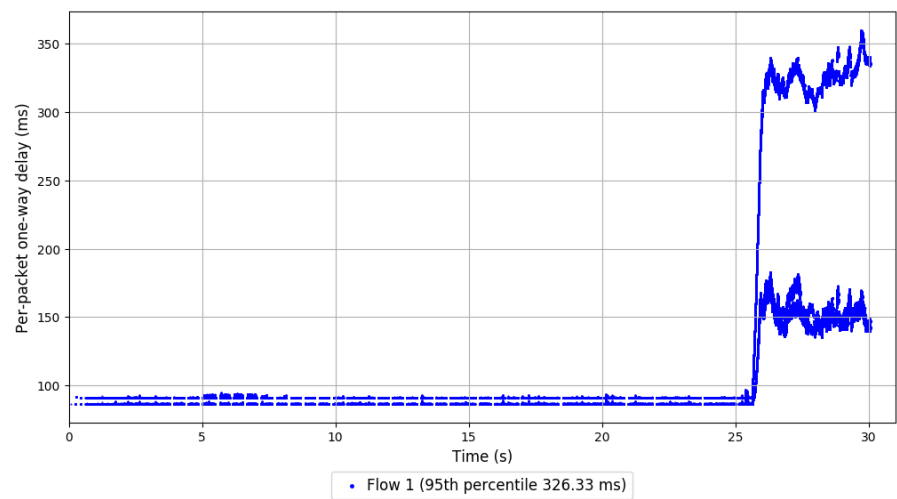
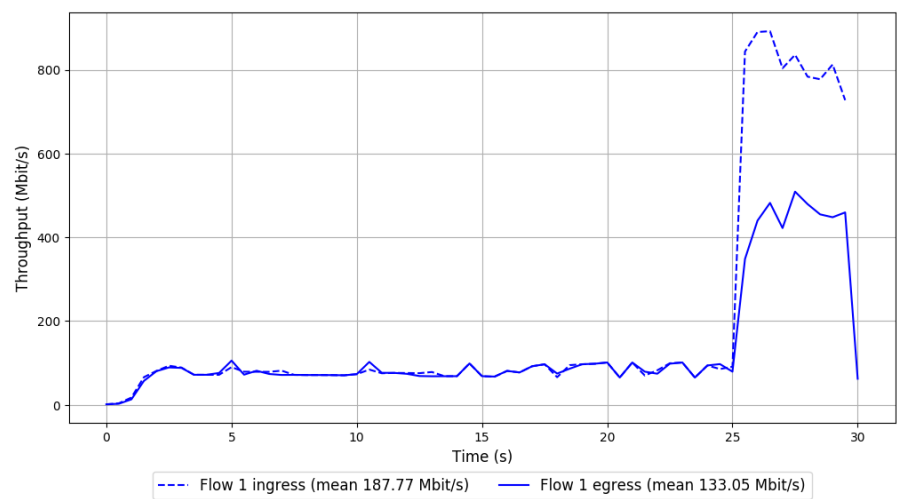
-- Flow 1:

Average throughput: 133.05 Mbit/s

95th percentile per-packet one-way delay: 326.333 ms

Loss rate: 29.14%

Run 10: Report of Copa — Data Link



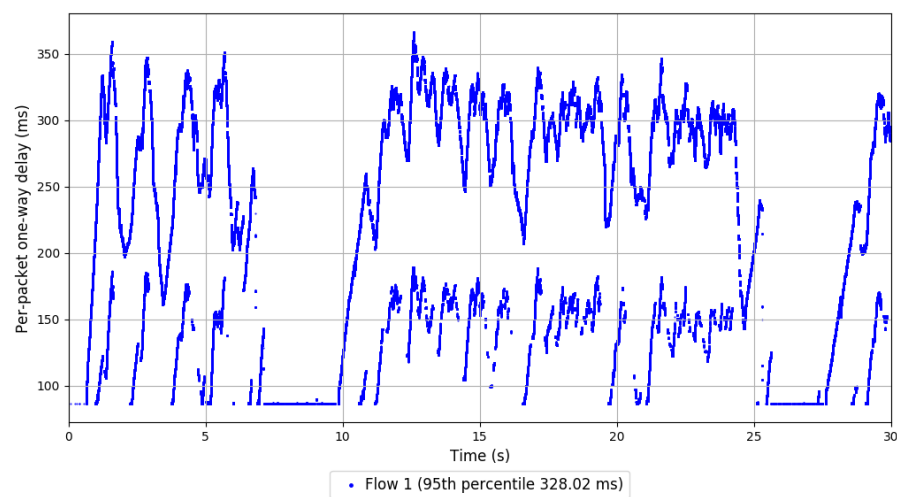
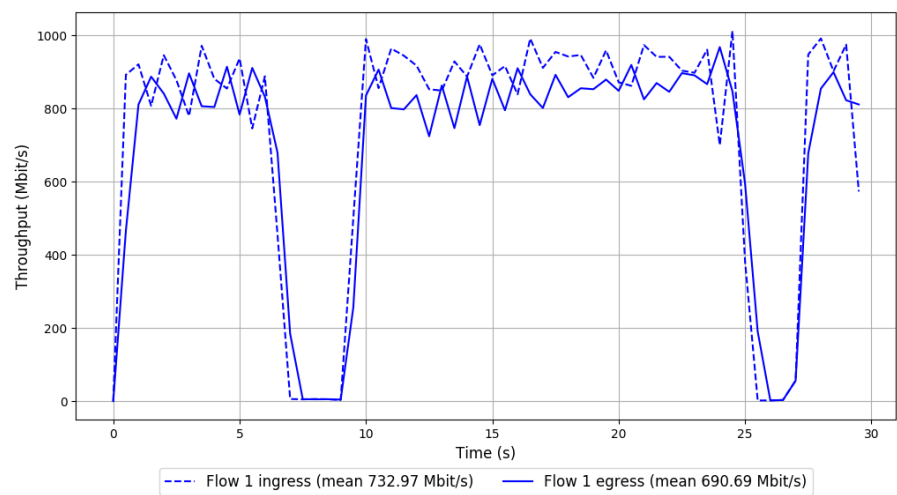
```
Run 1: Statistics of FillP

Start at: 2018-02-19 19:21:15
End at: 2018-02-19 19:21:45

# Below is generated by plot.py at 2018-02-20 00:10:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 690.69 Mbit/s
95th percentile per-packet one-way delay: 328.020 ms
Loss rate: 5.79%
-- Flow 1:
Average throughput: 690.69 Mbit/s
95th percentile per-packet one-way delay: 328.020 ms
Loss rate: 5.79%
```



Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-19 19:36:05

End at: 2018-02-19 19:36:35

# Below is generated by plot.py at 2018-02-20 00:11:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 675.23 Mbit/s

95th percentile per-packet one-way delay: 340.775 ms

Loss rate: 11.72%

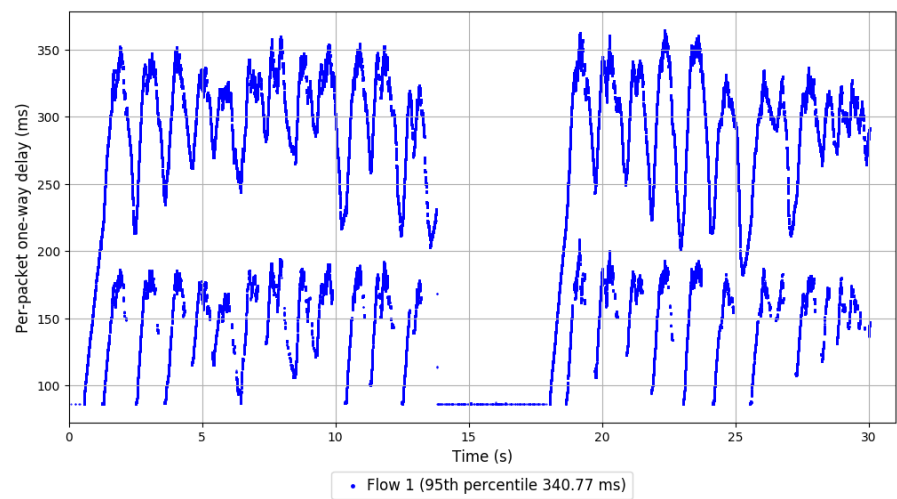
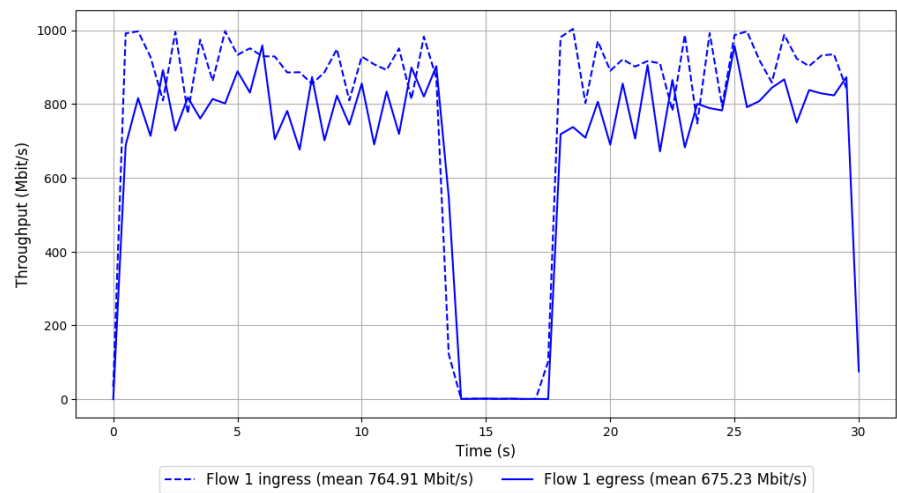
-- Flow 1:

Average throughput: 675.23 Mbit/s

95th percentile per-packet one-way delay: 340.775 ms

Loss rate: 11.72%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-19 19:51:14

End at: 2018-02-19 19:51:44

# Below is generated by plot.py at 2018-02-20 00:13:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 770.80 Mbit/s

95th percentile per-packet one-way delay: 334.159 ms

Loss rate: 7.85%

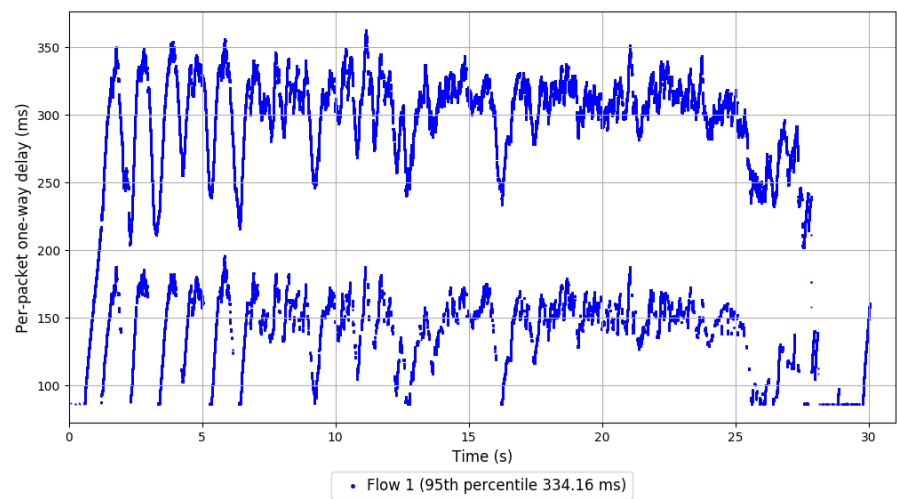
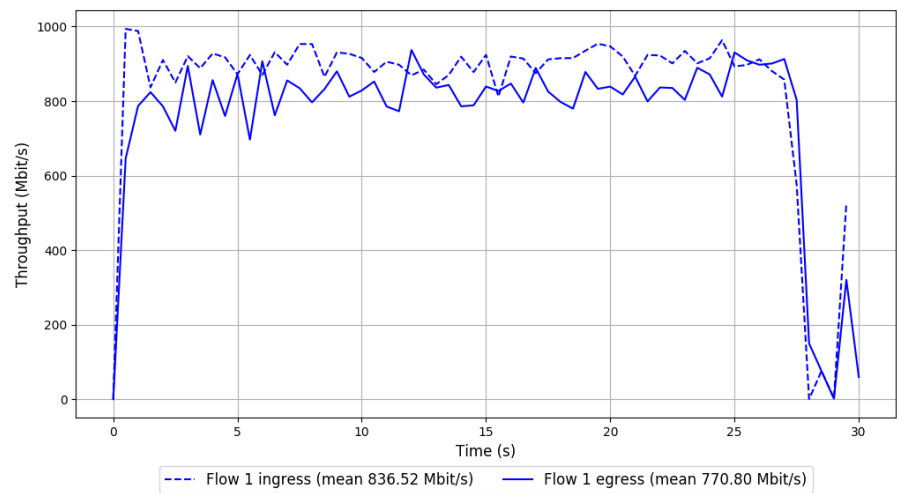
-- Flow 1:

Average throughput: 770.80 Mbit/s

95th percentile per-packet one-way delay: 334.159 ms

Loss rate: 7.85%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-19 20:06:40

End at: 2018-02-19 20:07:10

# Below is generated by plot.py at 2018-02-20 00:13:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 619.28 Mbit/s

95th percentile per-packet one-way delay: 331.321 ms

Loss rate: 4.41%

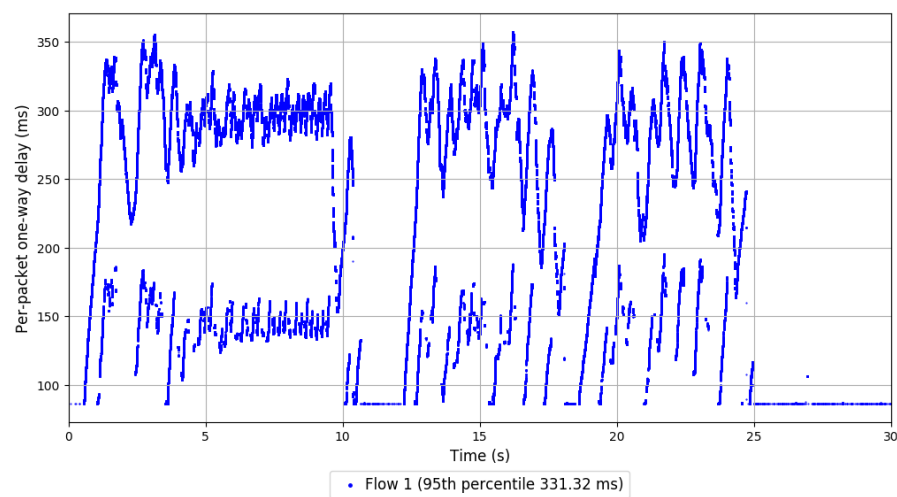
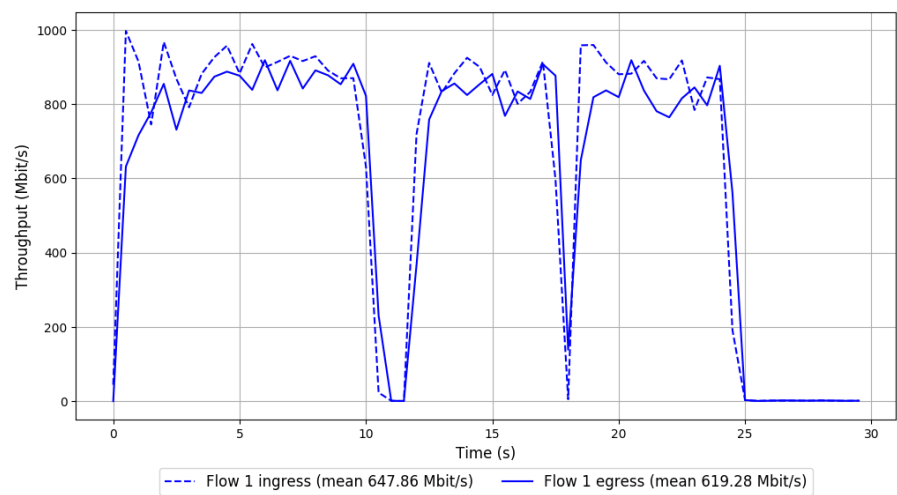
-- Flow 1:

Average throughput: 619.28 Mbit/s

95th percentile per-packet one-way delay: 331.321 ms

Loss rate: 4.41%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-19 20:21:53

End at: 2018-02-19 20:22:23

# Below is generated by plot.py at 2018-02-20 00:15:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 845.19 Mbit/s

95th percentile per-packet one-way delay: 329.880 ms

Loss rate: 3.95%

-- Flow 1:

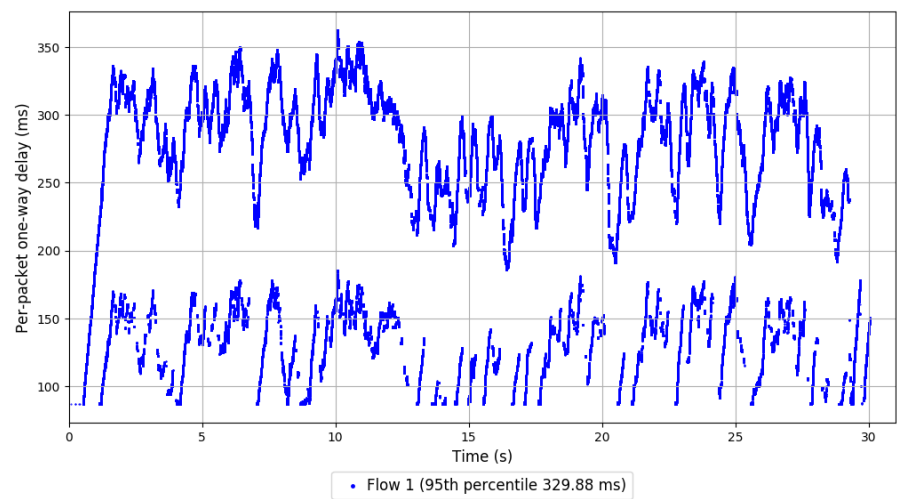
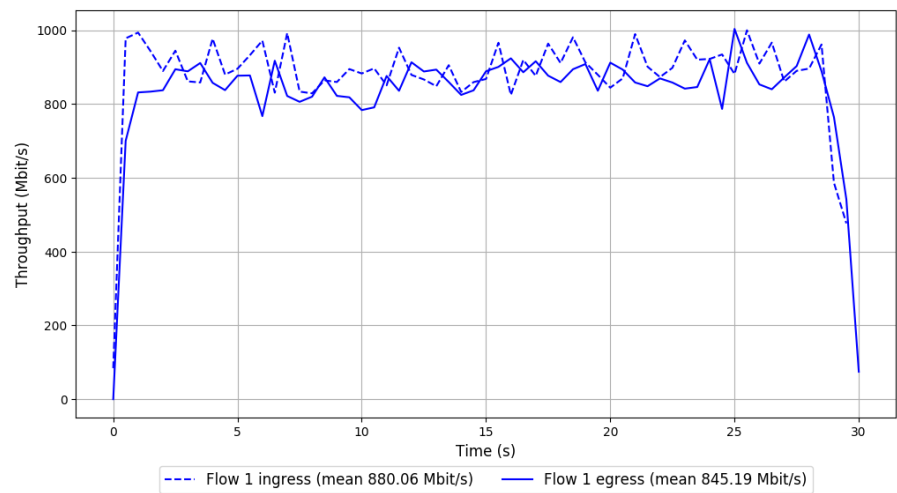
Average throughput: 845.19 Mbit/s

95th percentile per-packet one-way delay: 329.880 ms

Loss rate: 3.95%



Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-19 20:37:24

End at: 2018-02-19 20:37:54

# Below is generated by plot.py at 2018-02-20 00:15:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 817.41 Mbit/s

95th percentile per-packet one-way delay: 330.496 ms

Loss rate: 8.91%

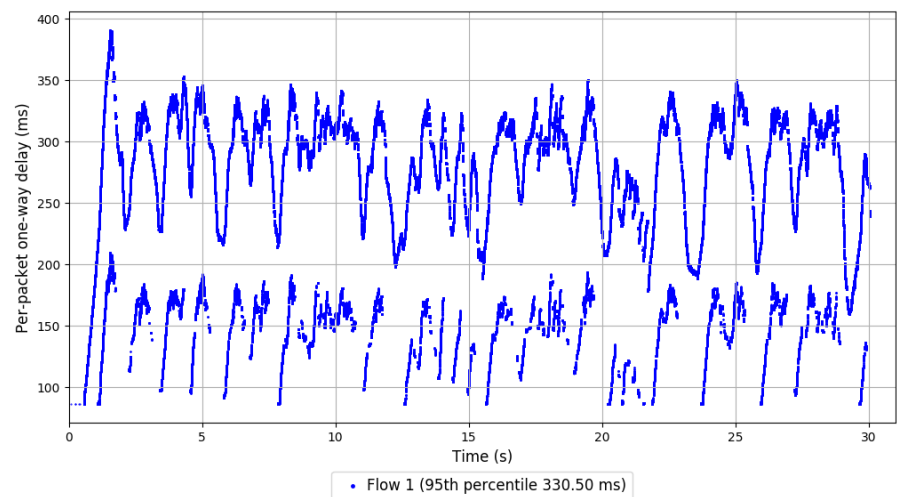
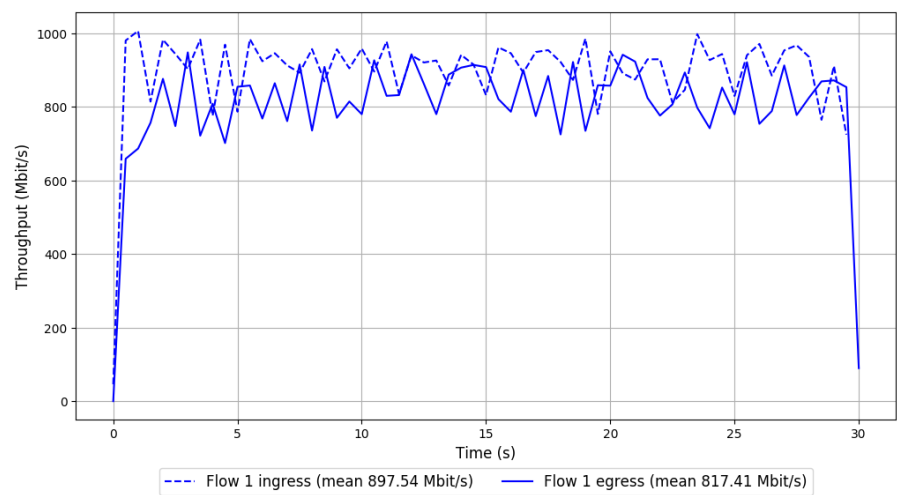
-- Flow 1:

Average throughput: 817.41 Mbit/s

95th percentile per-packet one-way delay: 330.496 ms

Loss rate: 8.91%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-19 20:52:37

End at: 2018-02-19 20:53:07

# Below is generated by plot.py at 2018-02-20 00:16:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 817.47 Mbit/s

95th percentile per-packet one-way delay: 326.409 ms

Loss rate: 9.84%

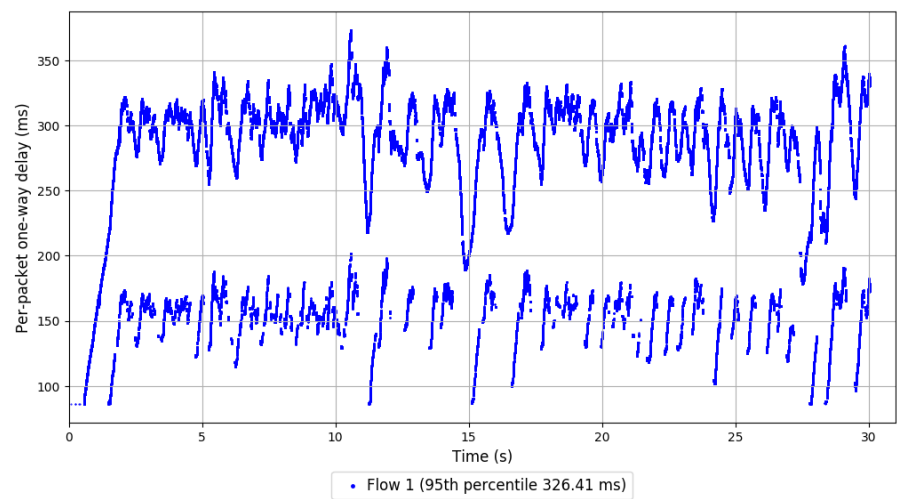
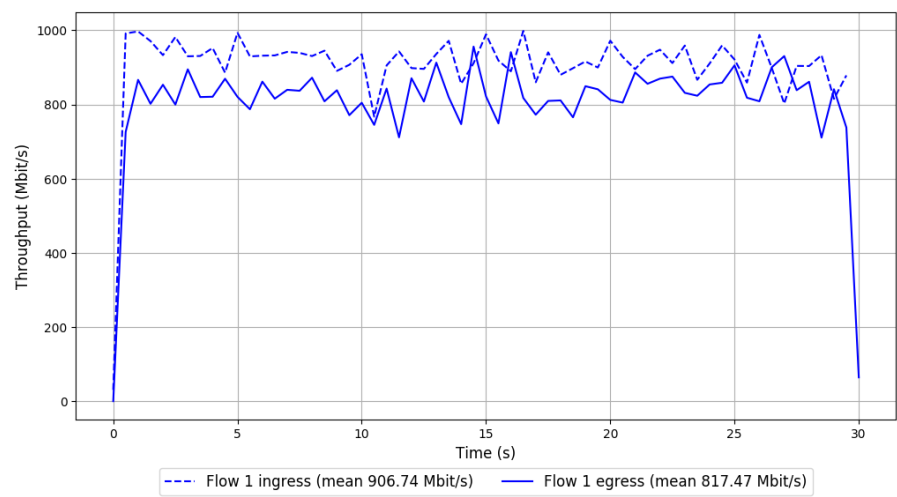
-- Flow 1:

Average throughput: 817.47 Mbit/s

95th percentile per-packet one-way delay: 326.409 ms

Loss rate: 9.84%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-19 21:07:39

End at: 2018-02-19 21:08:09

# Below is generated by plot.py at 2018-02-20 00:18:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 810.19 Mbit/s

95th percentile per-packet one-way delay: 333.791 ms

Loss rate: 4.17%

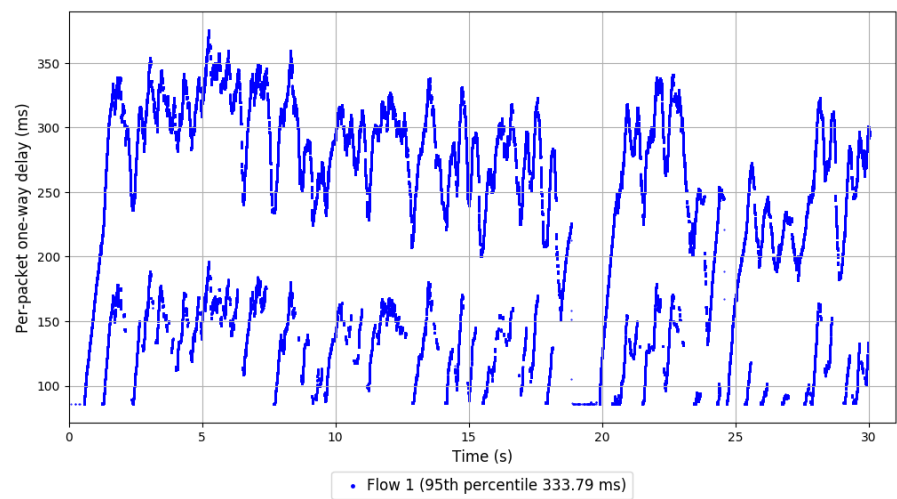
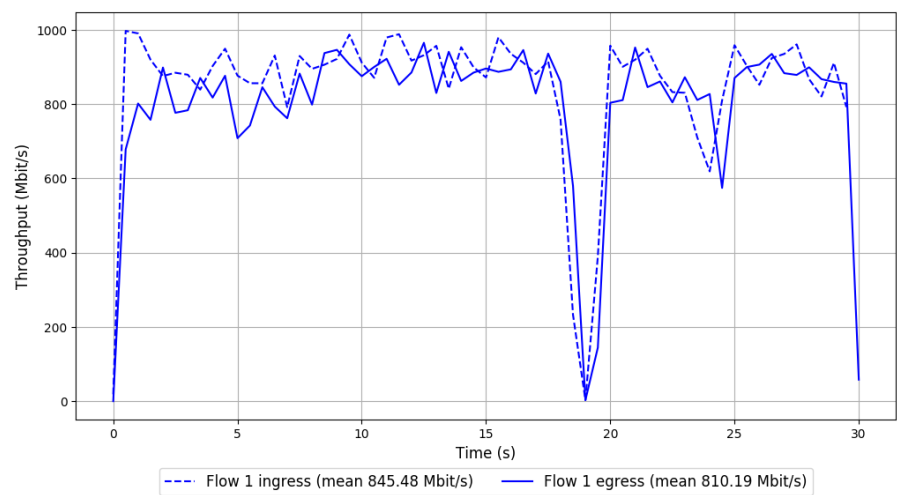
-- Flow 1:

Average throughput: 810.19 Mbit/s

95th percentile per-packet one-way delay: 333.791 ms

Loss rate: 4.17%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-19 21:22:45

End at: 2018-02-19 21:23:15

# Below is generated by plot.py at 2018-02-20 00:27:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 830.37 Mbit/s

95th percentile per-packet one-way delay: 320.601 ms

Loss rate: 4.39%

-- Flow 1:

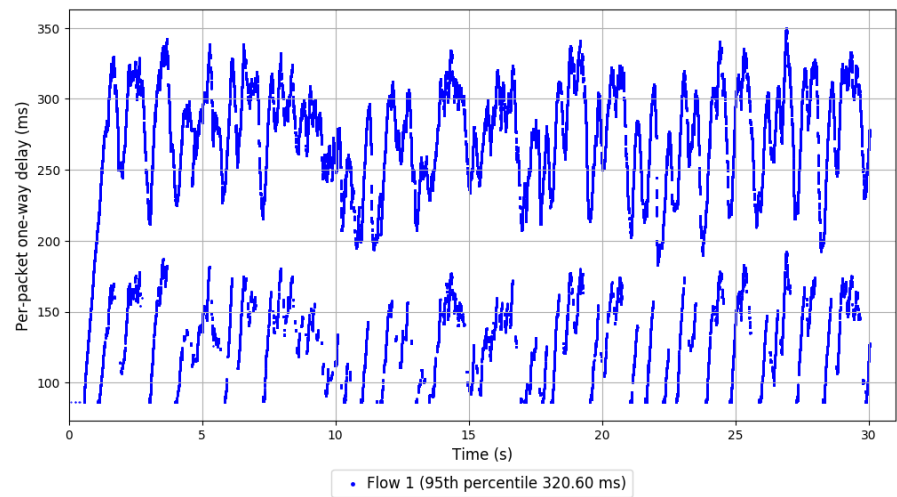
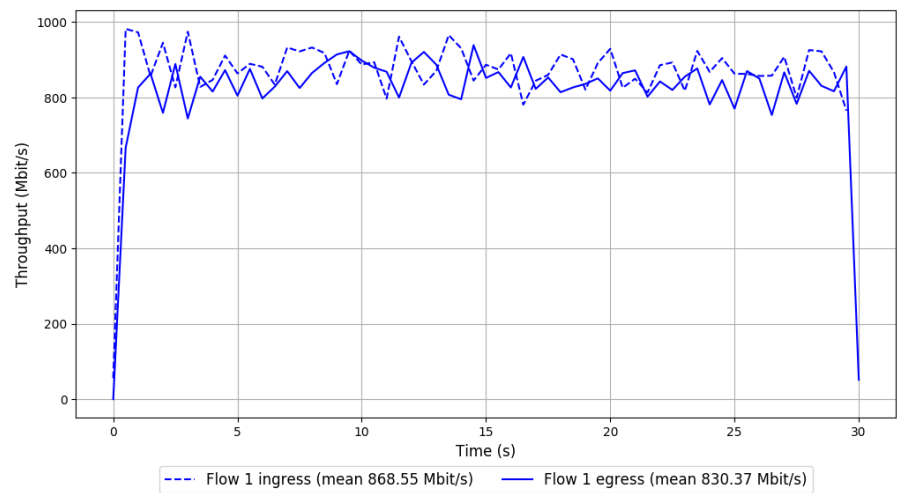
Average throughput: 830.37 Mbit/s

95th percentile per-packet one-way delay: 320.601 ms

Loss rate: 4.39%



Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-19 21:37:50

End at: 2018-02-19 21:38:20

# Below is generated by plot.py at 2018-02-20 00:27:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 788.26 Mbit/s

95th percentile per-packet one-way delay: 335.533 ms

Loss rate: 8.53%

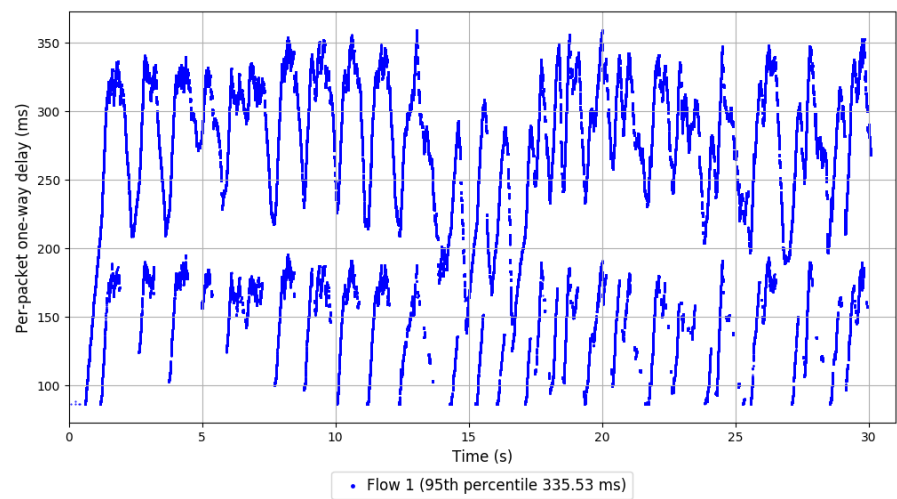
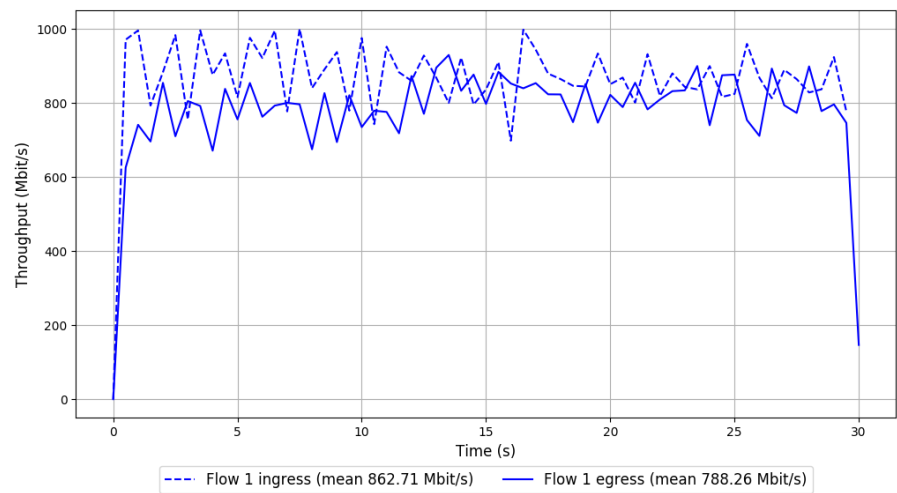
-- Flow 1:

Average throughput: 788.26 Mbit/s

95th percentile per-packet one-way delay: 335.533 ms

Loss rate: 8.53%

Run 10: Report of FillP — Data Link

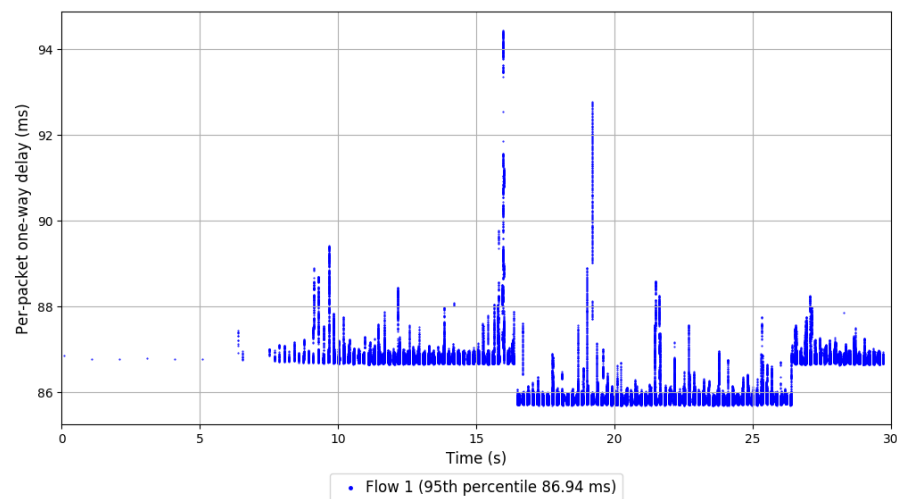
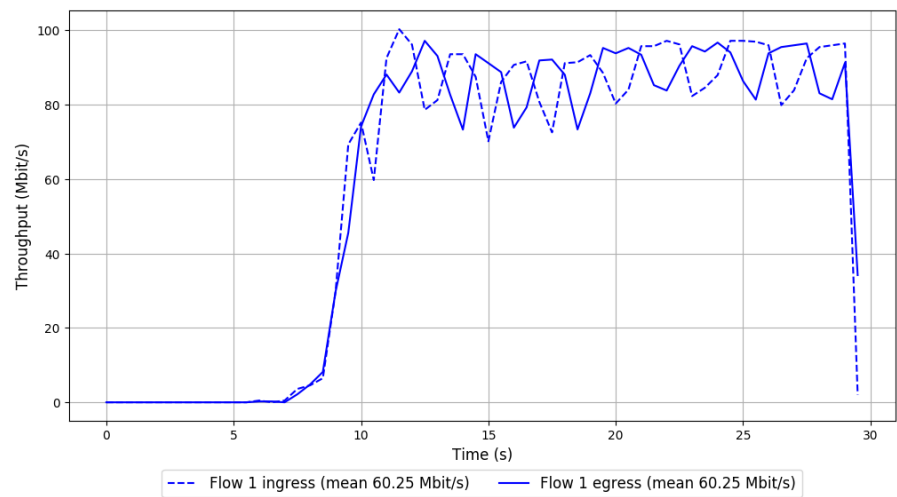


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-19 19:30:31
End at: 2018-02-19 19:31:01

# Below is generated by plot.py at 2018-02-20 00:27:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.25 Mbit/s
95th percentile per-packet one-way delay: 86.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.25 Mbit/s
95th percentile per-packet one-way delay: 86.938 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-19 19:45:41

End at: 2018-02-19 19:46:11

# Below is generated by plot.py at 2018-02-20 00:27:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 210.49 Mbit/s

95th percentile per-packet one-way delay: 86.925 ms

Loss rate: 0.00%

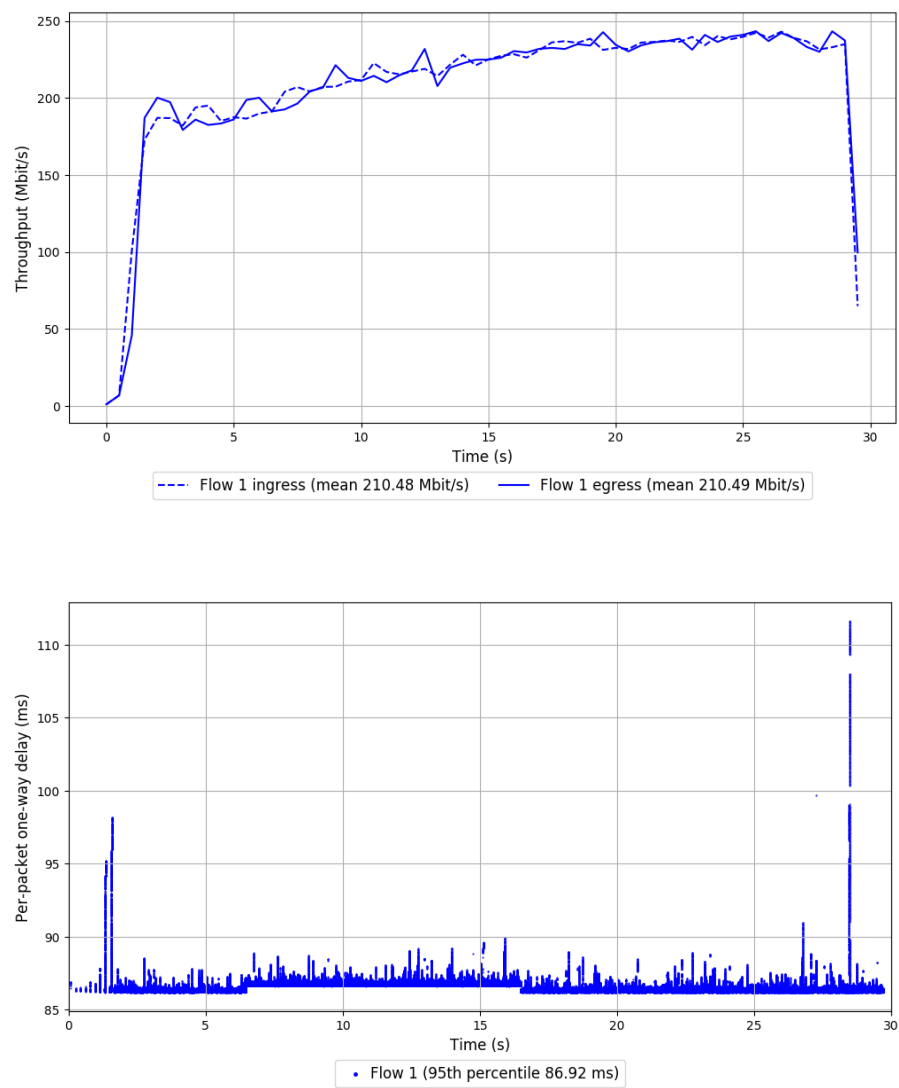
-- Flow 1:

Average throughput: 210.49 Mbit/s

95th percentile per-packet one-way delay: 86.925 ms

Loss rate: 0.00%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-19 20:00:57

End at: 2018-02-19 20:01:28

# Below is generated by plot.py at 2018-02-20 00:27:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 202.77 Mbit/s

95th percentile per-packet one-way delay: 86.531 ms

Loss rate: 0.00%

-- Flow 1:

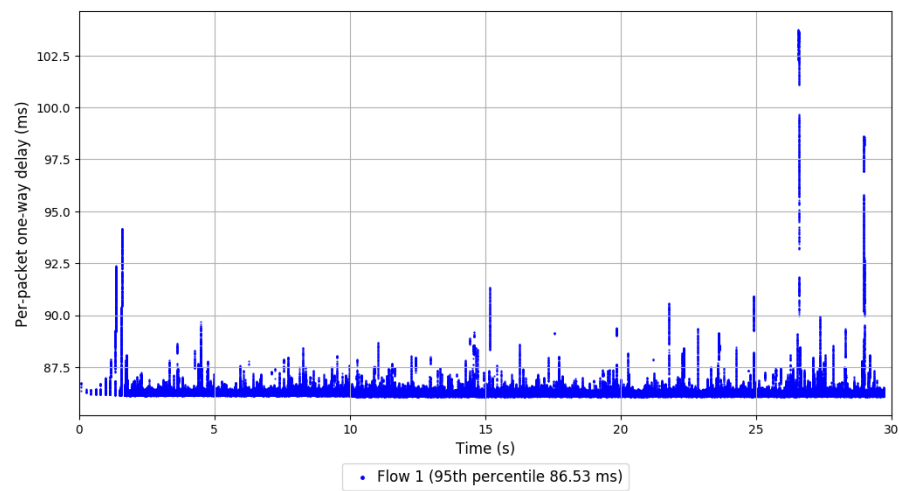
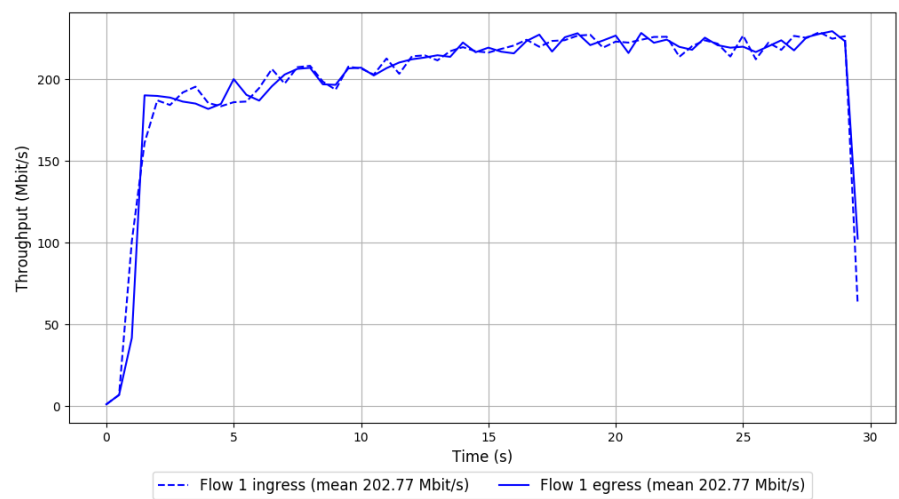
Average throughput: 202.77 Mbit/s

95th percentile per-packet one-way delay: 86.531 ms

Loss rate: 0.00%



Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-19 20:16:08

End at: 2018-02-19 20:16:38

# Below is generated by plot.py at 2018-02-20 00:27:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 195.38 Mbit/s

95th percentile per-packet one-way delay: 86.589 ms

Loss rate: 0.00%

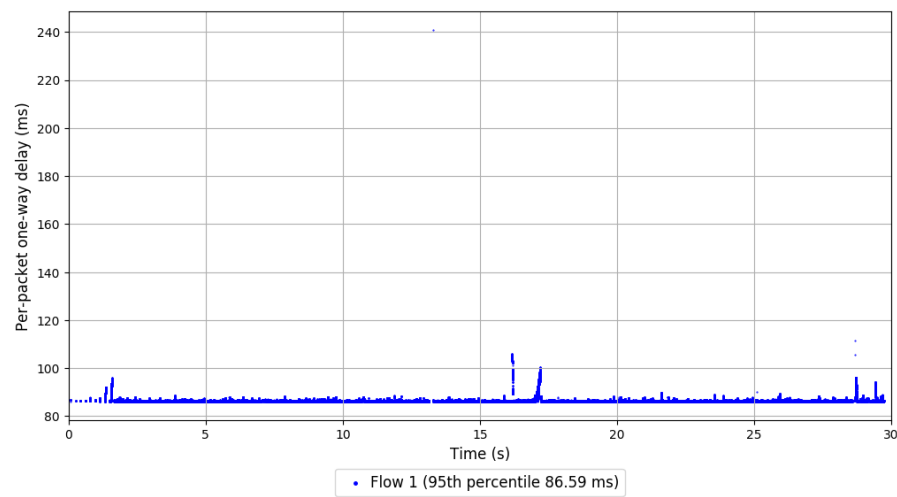
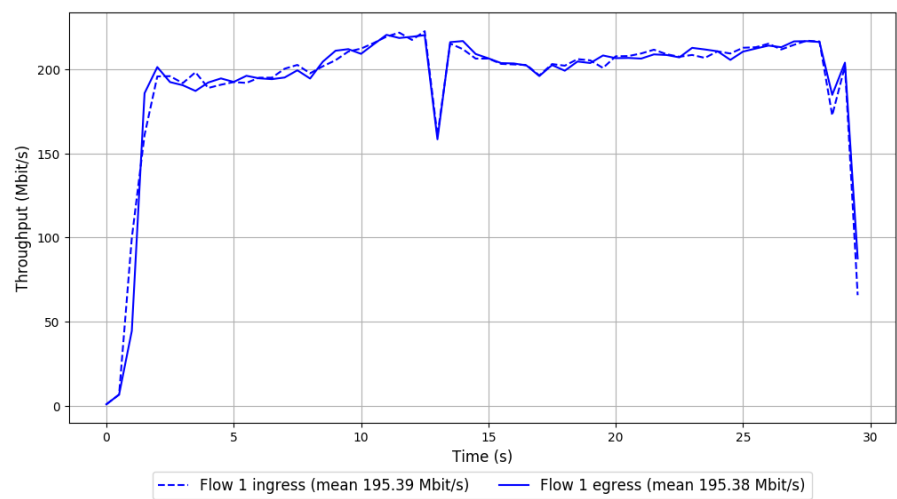
-- Flow 1:

Average throughput: 195.38 Mbit/s

95th percentile per-packet one-way delay: 86.589 ms

Loss rate: 0.00%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-19 20:31:42

End at: 2018-02-19 20:32:12

# Below is generated by plot.py at 2018-02-20 00:27:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 206.25 Mbit/s

95th percentile per-packet one-way delay: 86.624 ms

Loss rate: 0.00%

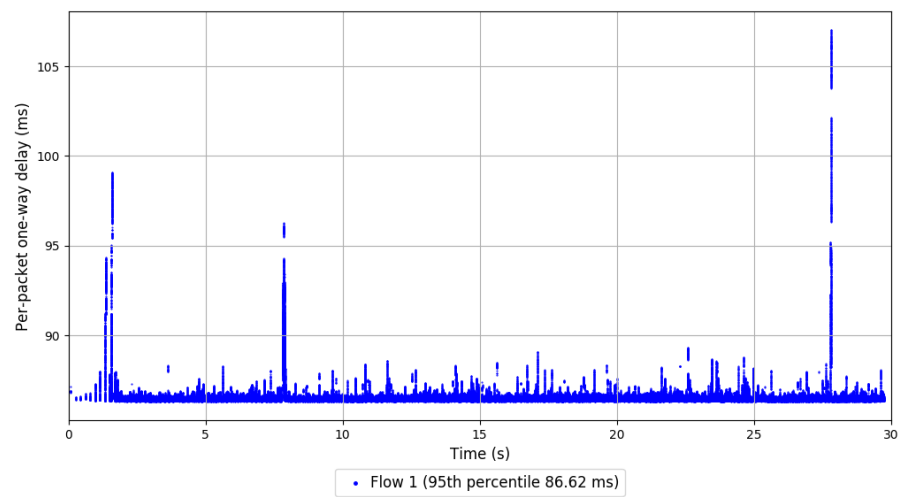
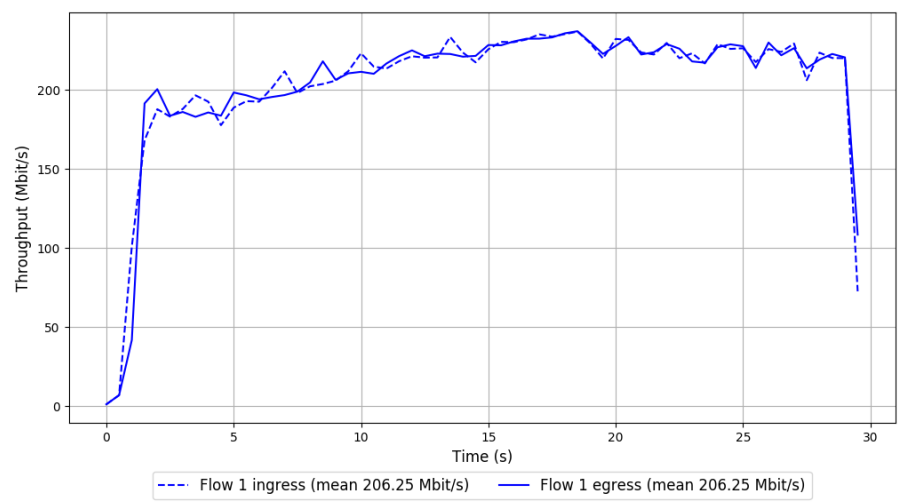
-- Flow 1:

Average throughput: 206.25 Mbit/s

95th percentile per-packet one-way delay: 86.624 ms

Loss rate: 0.00%

Run 5: Report of Indigo-1-32 — Data Link

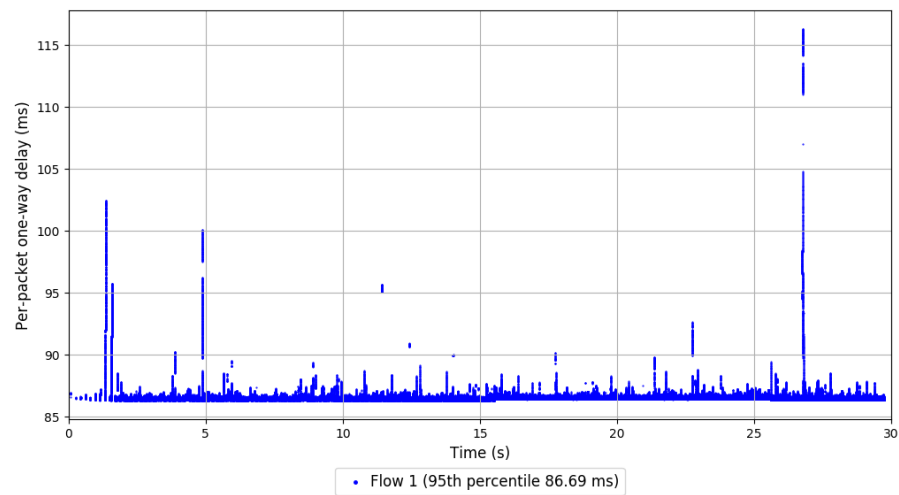
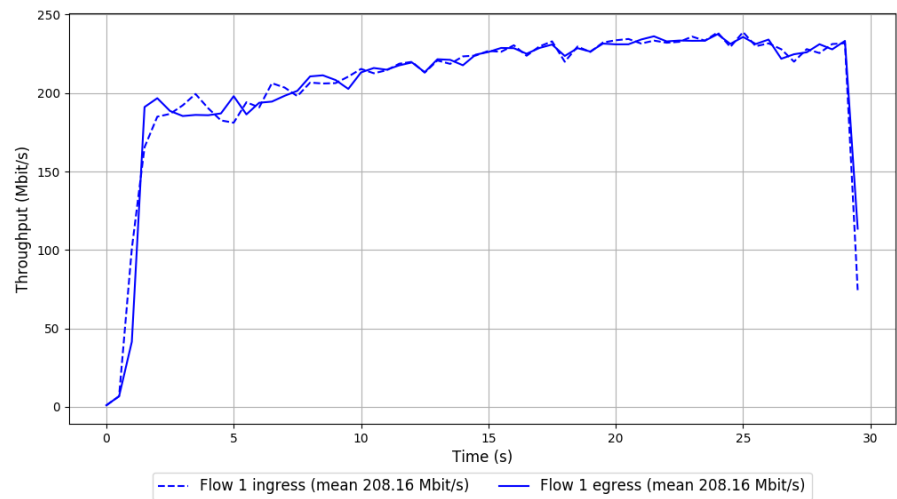


```
Run 6: Statistics of Indigo-1-32

Start at: 2018-02-19 20:46:52
End at: 2018-02-19 20:47:22

# Below is generated by plot.py at 2018-02-20 00:27:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.16 Mbit/s
95th percentile per-packet one-way delay: 86.695 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.16 Mbit/s
95th percentile per-packet one-way delay: 86.695 ms
Loss rate: 0.00%
```

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-19 21:02:14

End at: 2018-02-19 21:02:44

# Below is generated by plot.py at 2018-02-20 00:27:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 168.58 Mbit/s

95th percentile per-packet one-way delay: 114.069 ms

Loss rate: 0.00%

-- Flow 1:

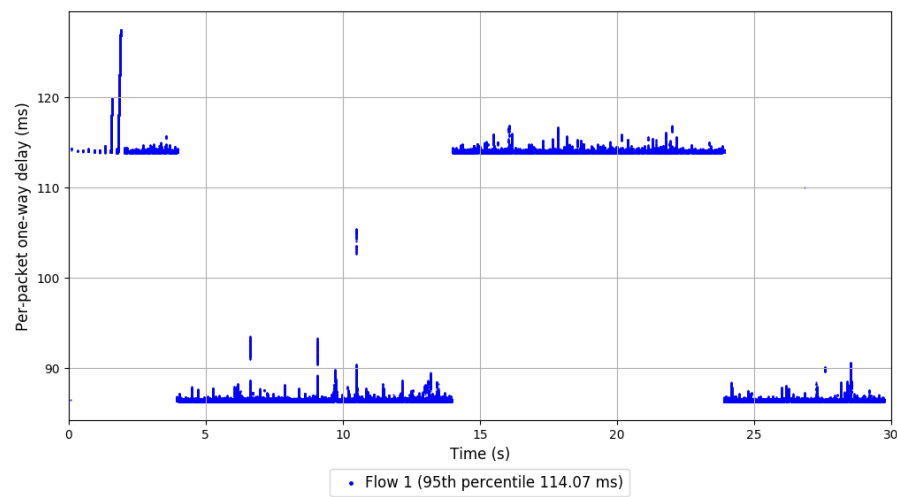
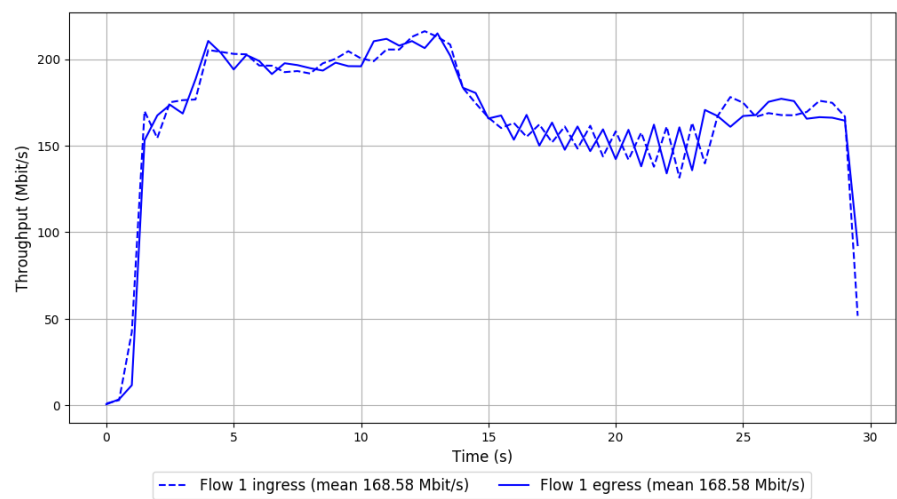
Average throughput: 168.58 Mbit/s

95th percentile per-packet one-way delay: 114.069 ms

Loss rate: 0.00%



Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-19 21:17:12

End at: 2018-02-19 21:17:42

# Below is generated by plot.py at 2018-02-20 00:27:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 177.87 Mbit/s

95th percentile per-packet one-way delay: 114.095 ms

Loss rate: 0.06%

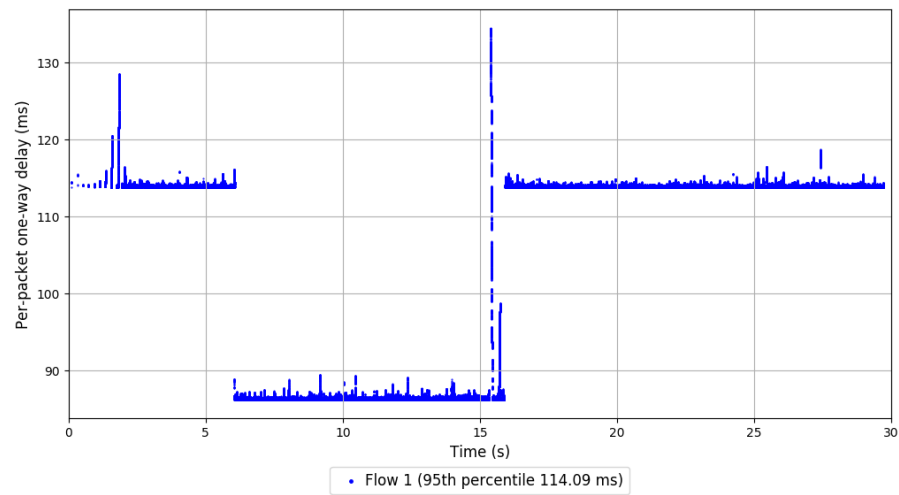
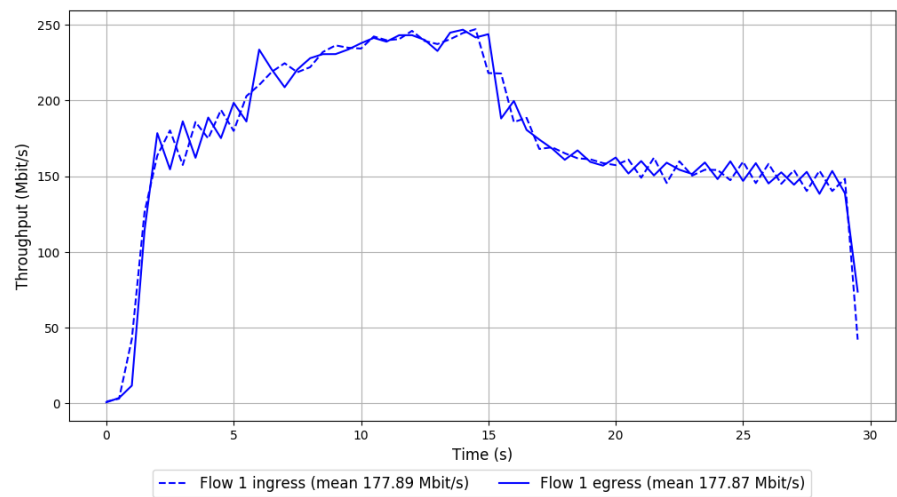
-- Flow 1:

Average throughput: 177.87 Mbit/s

95th percentile per-packet one-way delay: 114.095 ms

Loss rate: 0.06%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-19 21:32:05

End at: 2018-02-19 21:32:35

# Below is generated by plot.py at 2018-02-20 00:27:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 175.51 Mbit/s

95th percentile per-packet one-way delay: 91.305 ms

Loss rate: 0.02%

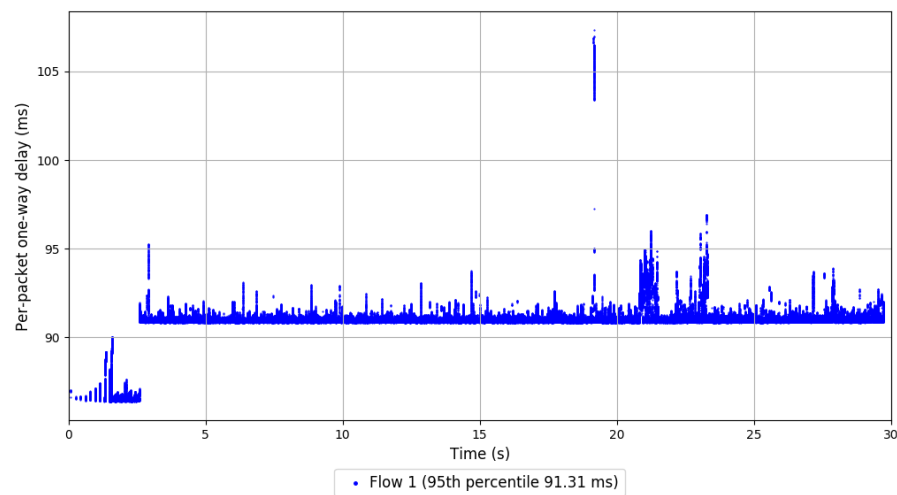
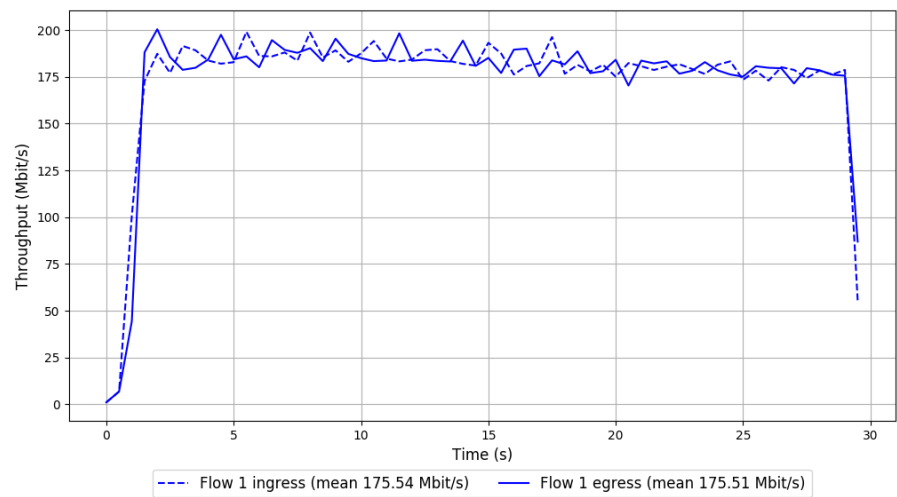
-- Flow 1:

Average throughput: 175.51 Mbit/s

95th percentile per-packet one-way delay: 91.305 ms

Loss rate: 0.02%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-19 21:47:16

End at: 2018-02-19 21:47:46

# Below is generated by plot.py at 2018-02-20 00:27:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 189.53 Mbit/s

95th percentile per-packet one-way delay: 91.074 ms

Loss rate: 0.00%

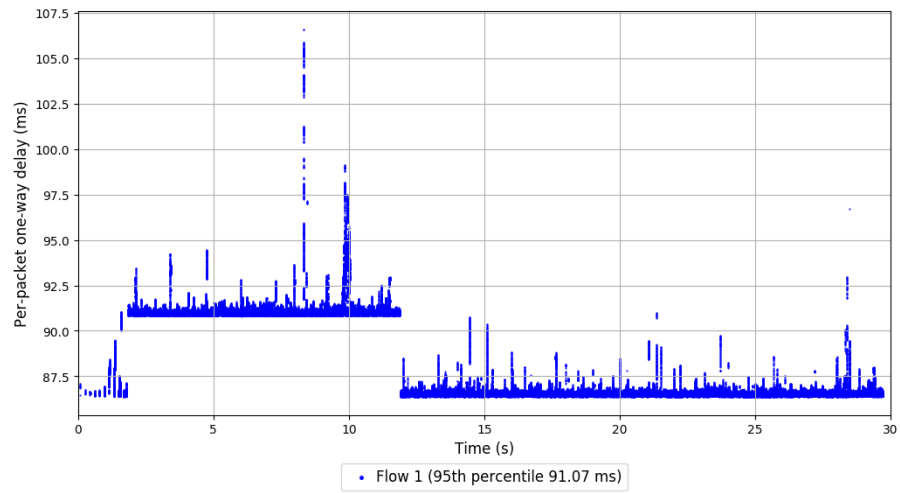
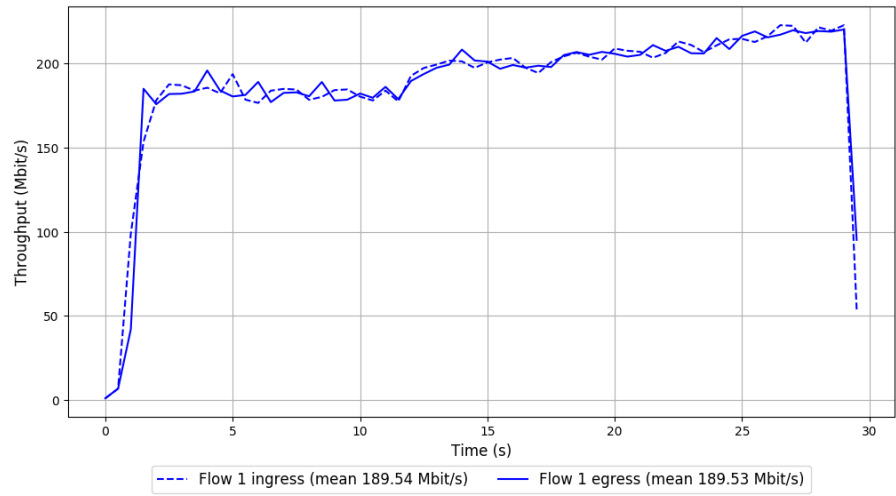
-- Flow 1:

Average throughput: 189.53 Mbit/s

95th percentile per-packet one-way delay: 91.074 ms

Loss rate: 0.00%

# Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-02-19 19:27:50

End at: 2018-02-19 19:28:20

# Below is generated by plot.py at 2018-02-20 00:27:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 345.22 Mbit/s

95th percentile per-packet one-way delay: 88.141 ms

Loss rate: 0.01%

-- Flow 1:

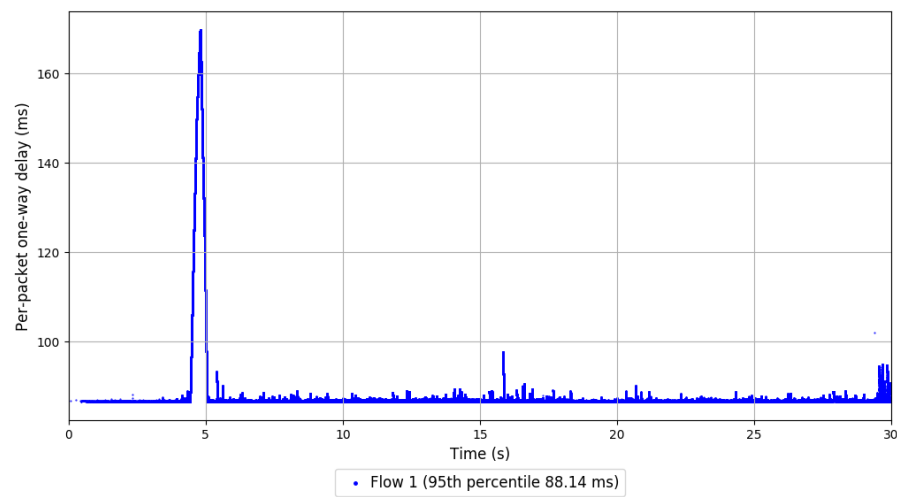
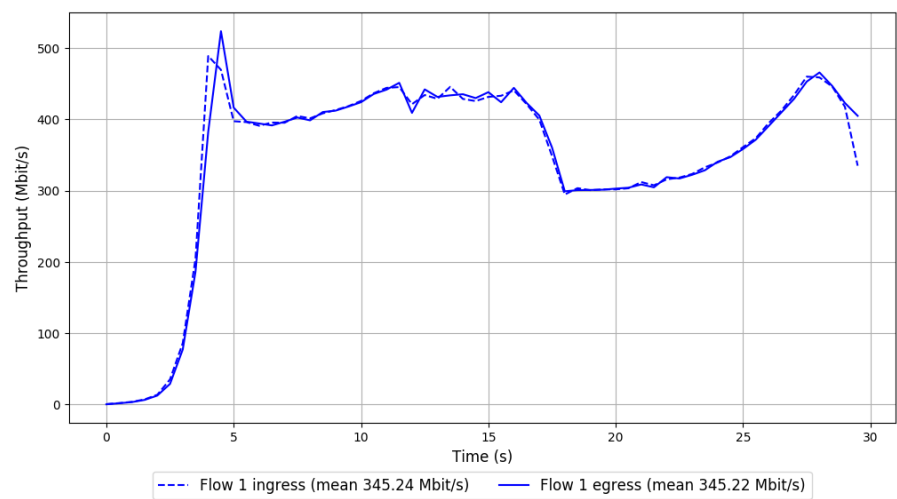
Average throughput: 345.22 Mbit/s

95th percentile per-packet one-way delay: 88.141 ms

Loss rate: 0.01%



Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-19 19:43:01

End at: 2018-02-19 19:43:31

# Below is generated by plot.py at 2018-02-20 00:27:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 337.44 Mbit/s

95th percentile per-packet one-way delay: 87.035 ms

Loss rate: 0.00%

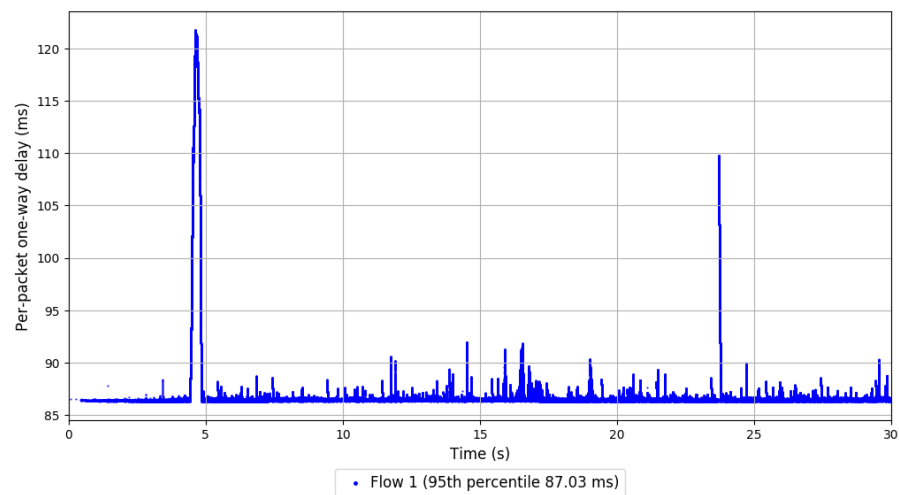
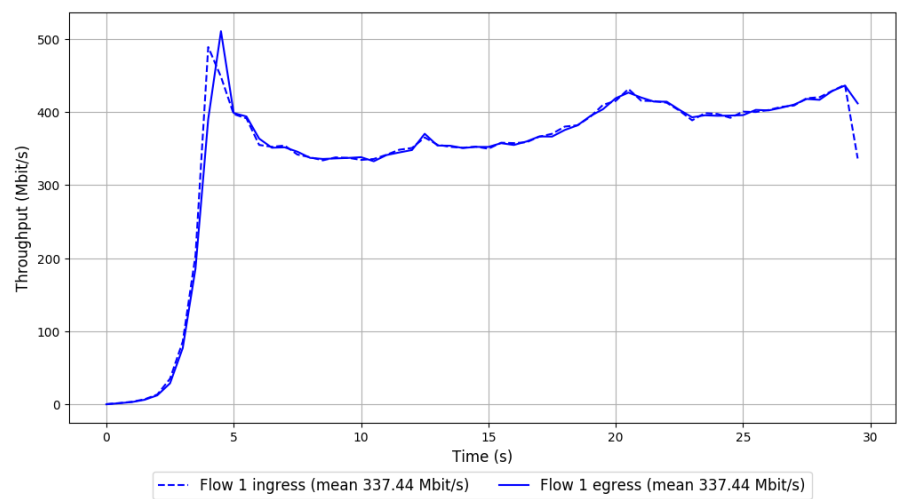
-- Flow 1:

Average throughput: 337.44 Mbit/s

95th percentile per-packet one-way delay: 87.035 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-19 19:58:14

End at: 2018-02-19 19:58:44

# Below is generated by plot.py at 2018-02-20 00:27:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 368.51 Mbit/s

95th percentile per-packet one-way delay: 94.327 ms

Loss rate: 0.00%

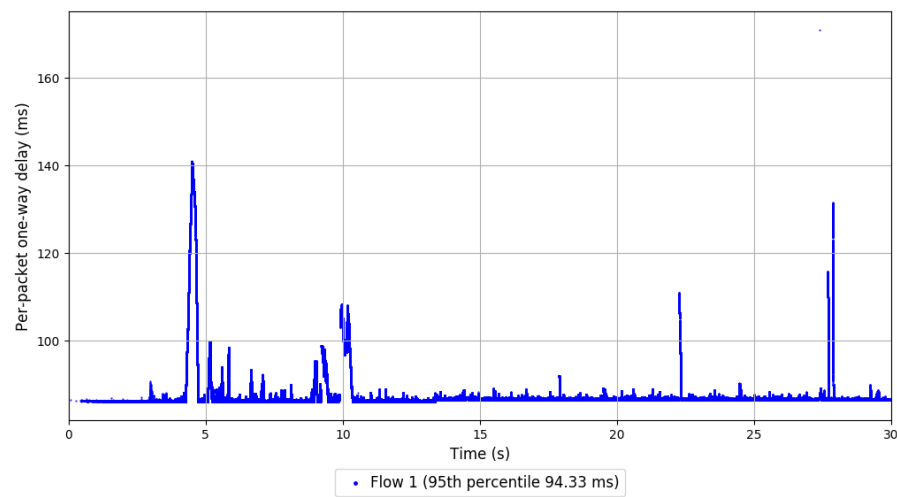
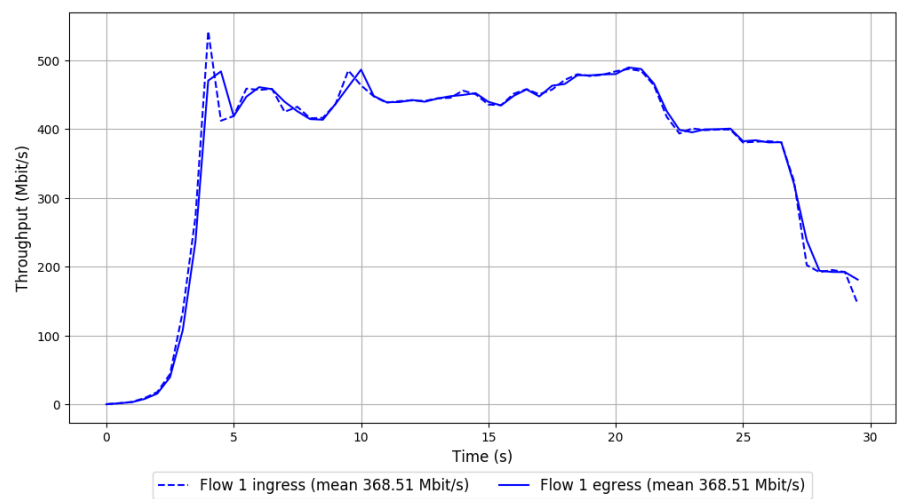
-- Flow 1:

Average throughput: 368.51 Mbit/s

95th percentile per-packet one-way delay: 94.327 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-19 20:13:32

End at: 2018-02-19 20:14:02

# Below is generated by plot.py at 2018-02-20 00:27:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 262.06 Mbit/s

95th percentile per-packet one-way delay: 90.473 ms

Loss rate: 0.00%

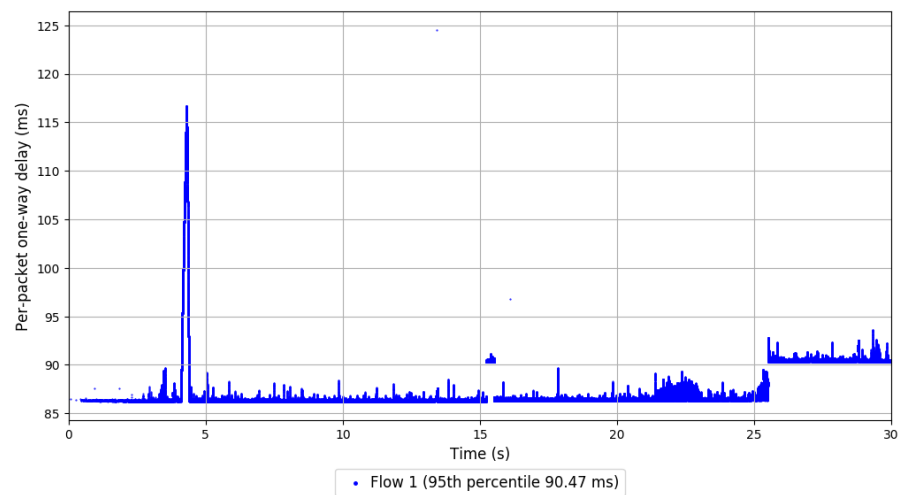
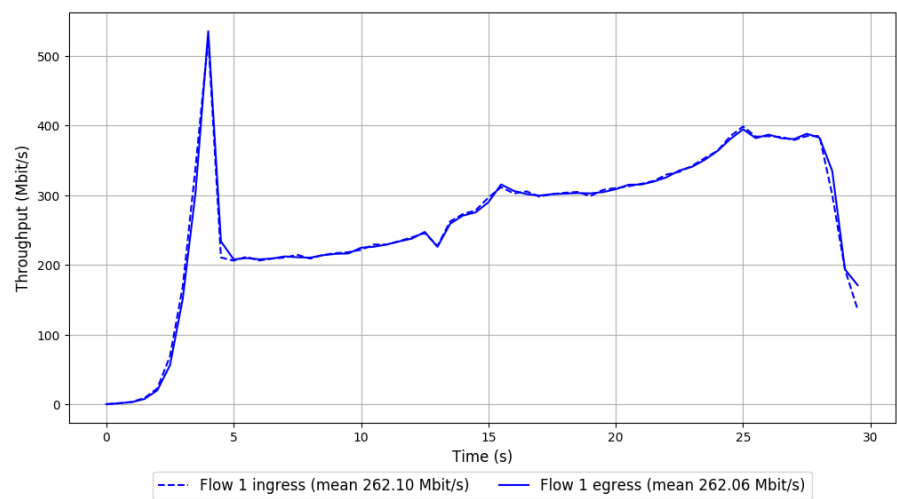
-- Flow 1:

Average throughput: 262.06 Mbit/s

95th percentile per-packet one-way delay: 90.473 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-19 20:28:58

End at: 2018-02-19 20:29:28

# Below is generated by plot.py at 2018-02-20 00:28:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 395.76 Mbit/s

95th percentile per-packet one-way delay: 87.271 ms

Loss rate: 0.00%

-- Flow 1:

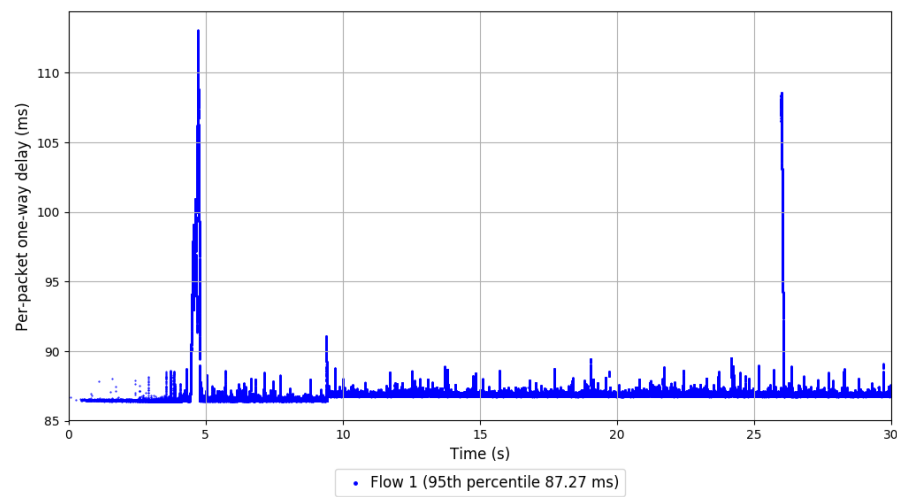
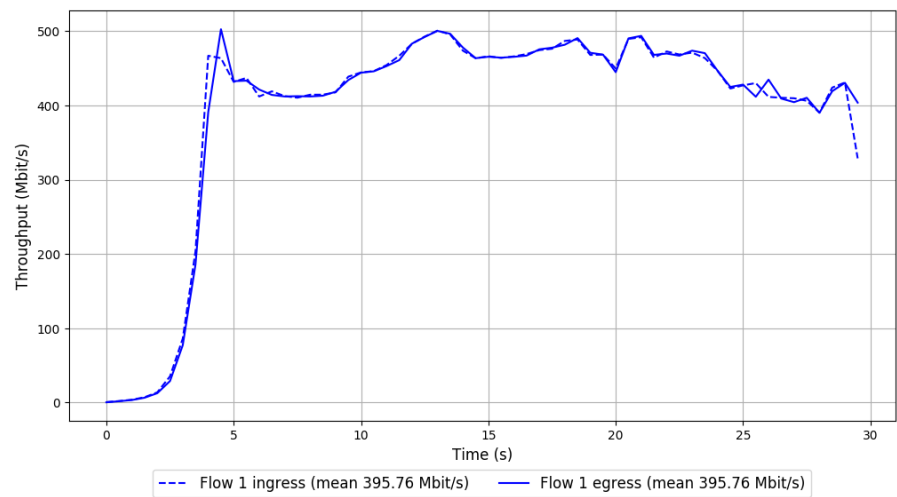
Average throughput: 395.76 Mbit/s

95th percentile per-packet one-way delay: 87.271 ms

Loss rate: 0.00%



Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-19 20:44:10

End at: 2018-02-19 20:44:41

# Below is generated by plot.py at 2018-02-20 00:28:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 366.97 Mbit/s

95th percentile per-packet one-way delay: 89.737 ms

Loss rate: 0.11%

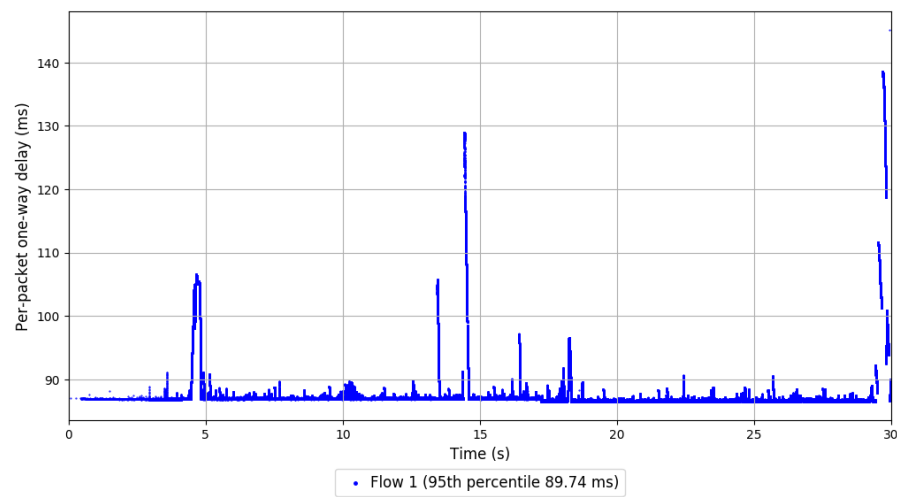
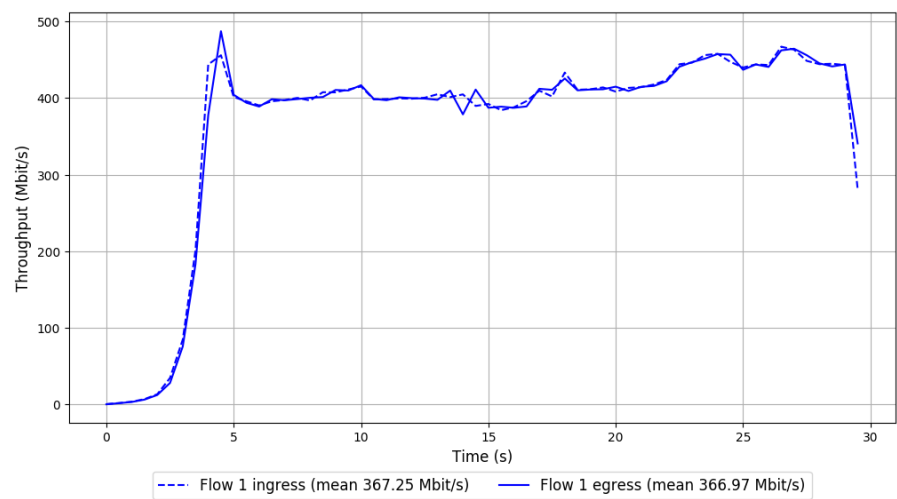
-- Flow 1:

Average throughput: 366.97 Mbit/s

95th percentile per-packet one-way delay: 89.737 ms

Loss rate: 0.11%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-19 20:59:35

End at: 2018-02-19 21:00:05

# Below is generated by plot.py at 2018-02-20 00:32:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 391.16 Mbit/s

95th percentile per-packet one-way delay: 86.820 ms

Loss rate: 0.00%

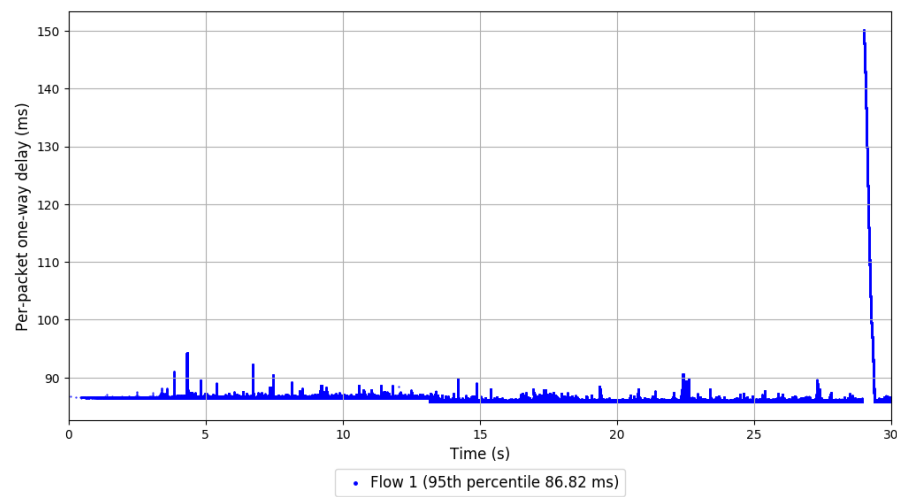
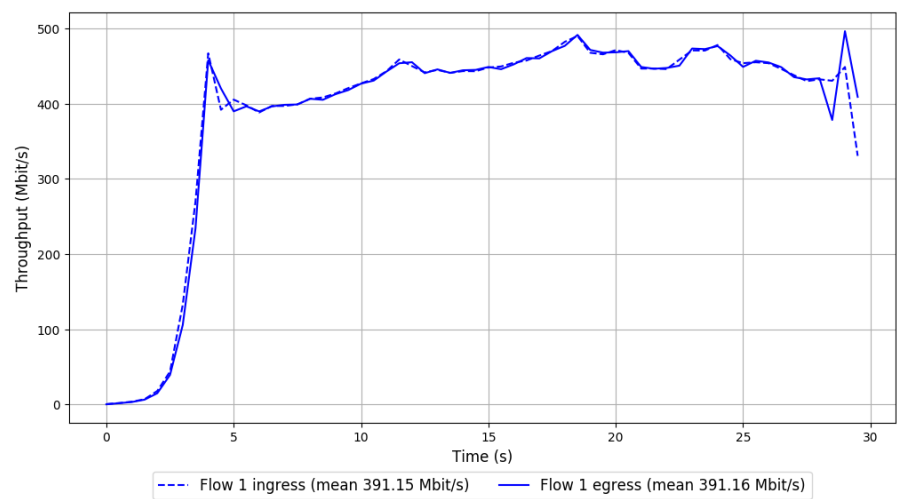
-- Flow 1:

Average throughput: 391.16 Mbit/s

95th percentile per-packet one-way delay: 86.820 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-19 21:14:30

End at: 2018-02-19 21:15:00

# Below is generated by plot.py at 2018-02-20 00:32:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 350.25 Mbit/s

95th percentile per-packet one-way delay: 97.147 ms

Loss rate: 0.05%

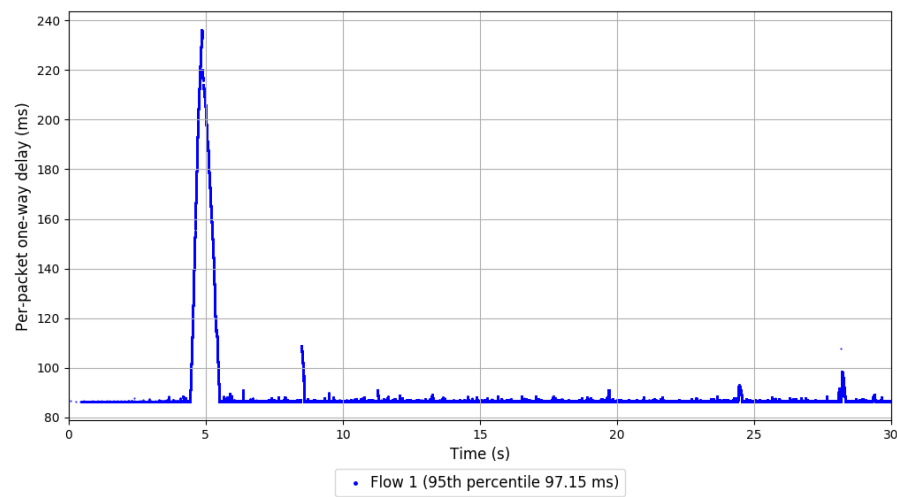
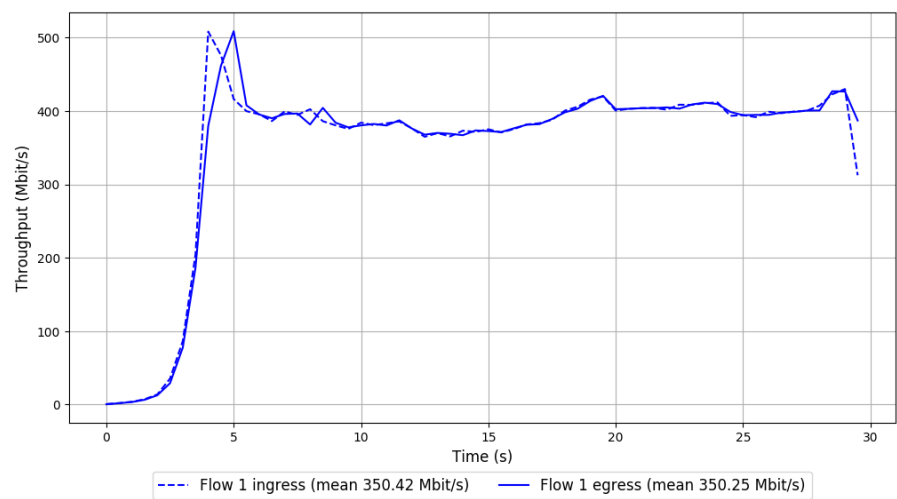
-- Flow 1:

Average throughput: 350.25 Mbit/s

95th percentile per-packet one-way delay: 97.147 ms

Loss rate: 0.05%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-19 21:29:26

End at: 2018-02-19 21:29:56

# Below is generated by plot.py at 2018-02-20 00:32:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 361.22 Mbit/s

95th percentile per-packet one-way delay: 90.767 ms

Loss rate: 0.00%

-- Flow 1:

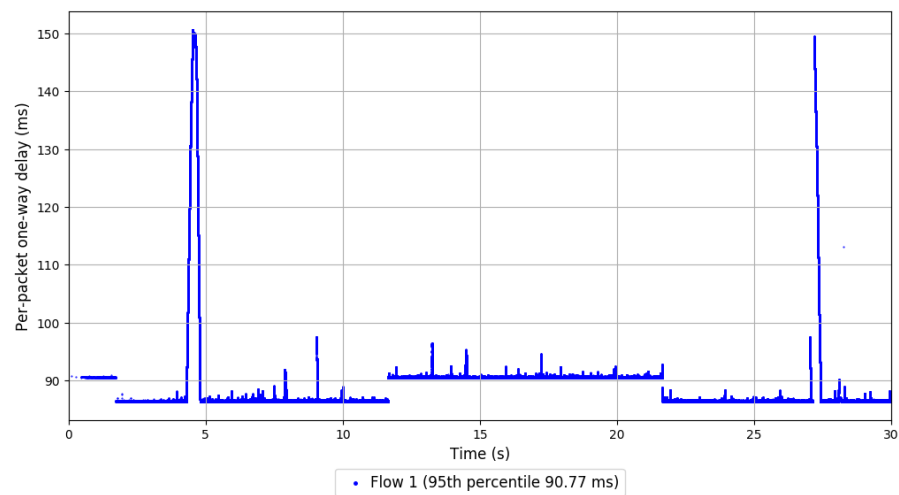
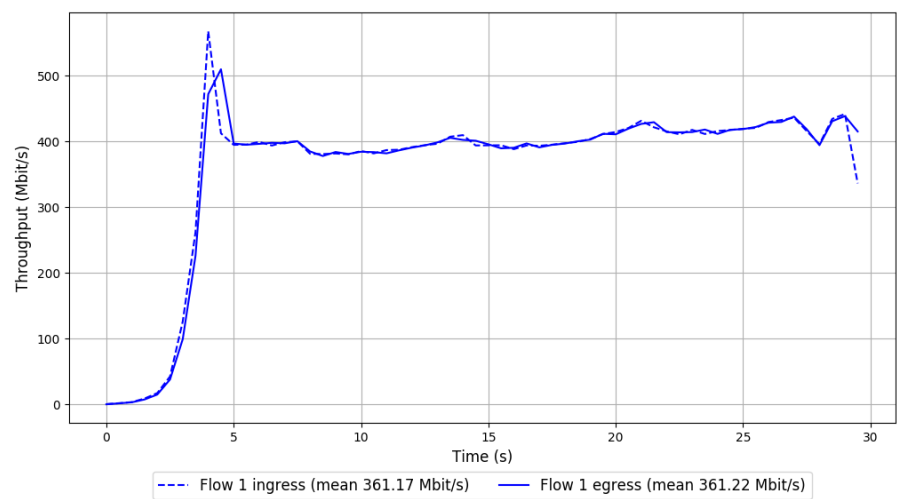
Average throughput: 361.22 Mbit/s

95th percentile per-packet one-way delay: 90.767 ms

Loss rate: 0.00%



Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-19 21:44:29

End at: 2018-02-19 21:44:59

# Below is generated by plot.py at 2018-02-20 00:32:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 384.64 Mbit/s

95th percentile per-packet one-way delay: 88.953 ms

Loss rate: 0.00%

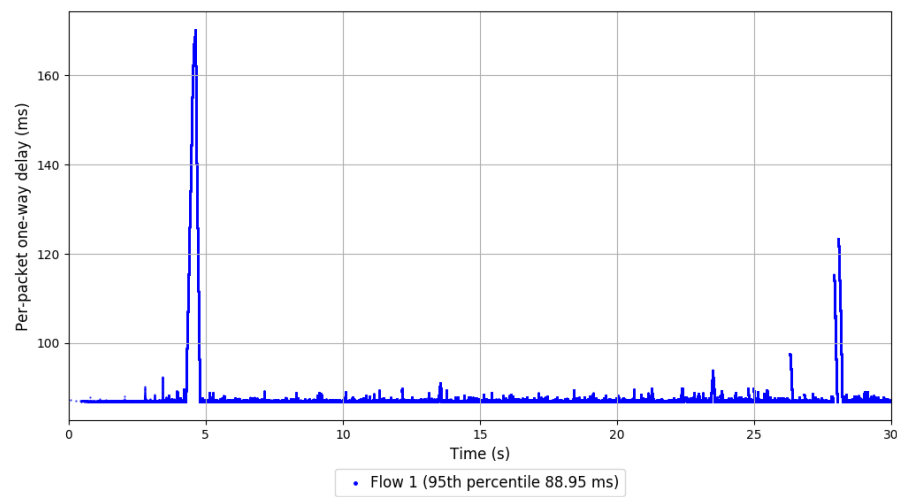
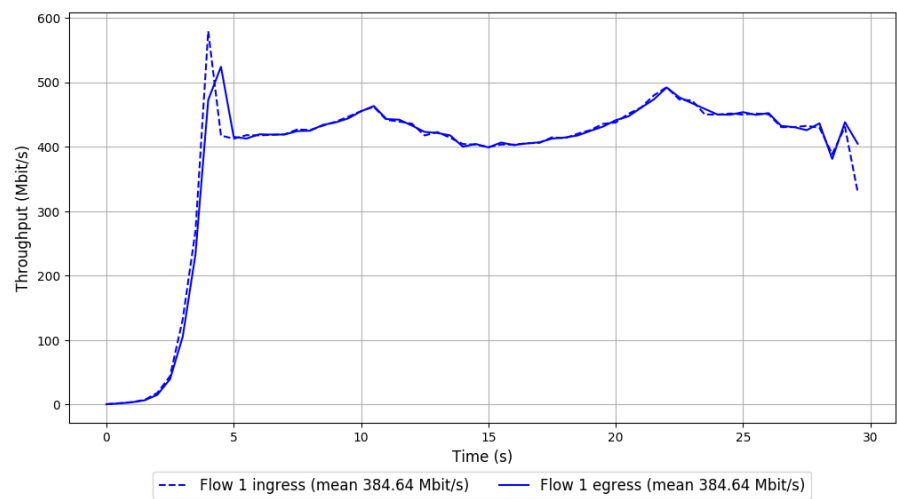
-- Flow 1:

Average throughput: 384.64 Mbit/s

95th percentile per-packet one-way delay: 88.953 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

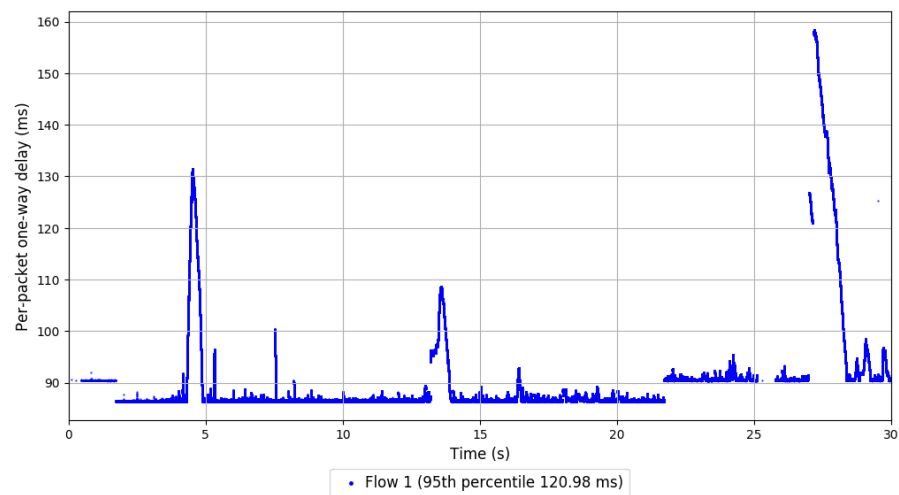
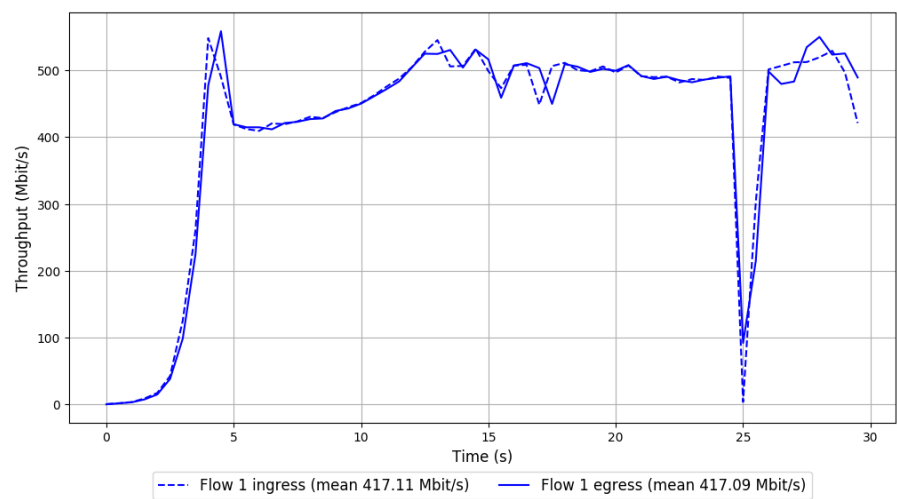


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-19 19:33:26
End at: 2018-02-19 19:33:56

# Below is generated by plot.py at 2018-02-20 00:34:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 417.09 Mbit/s
95th percentile per-packet one-way delay: 120.978 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 417.09 Mbit/s
95th percentile per-packet one-way delay: 120.978 ms
Loss rate: 0.02%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-19 19:48:45

End at: 2018-02-19 19:49:15

# Below is generated by plot.py at 2018-02-20 00:34:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 255.99 Mbit/s

95th percentile per-packet one-way delay: 212.000 ms

Loss rate: 1.45%

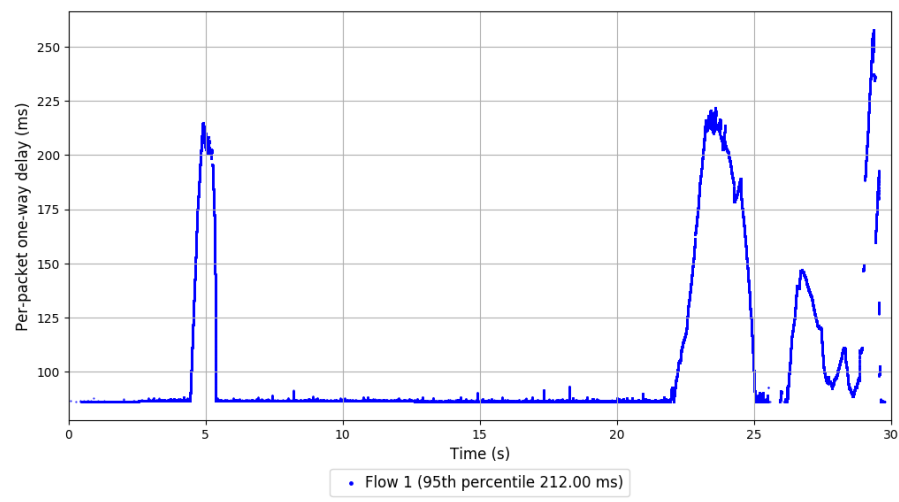
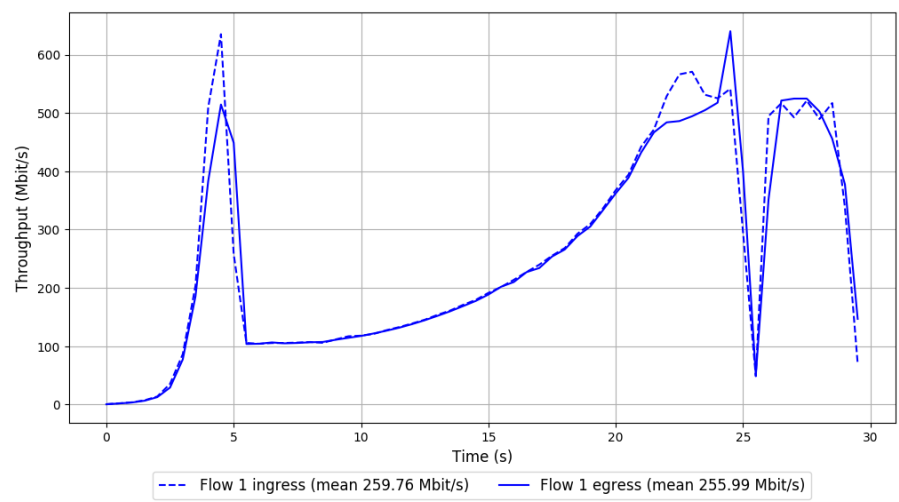
-- Flow 1:

Average throughput: 255.99 Mbit/s

95th percentile per-packet one-way delay: 212.000 ms

Loss rate: 1.45%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-19 20:04:01

End at: 2018-02-19 20:04:31

# Below is generated by plot.py at 2018-02-20 00:37:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 408.57 Mbit/s

95th percentile per-packet one-way delay: 88.007 ms

Loss rate: 0.00%

-- Flow 1:

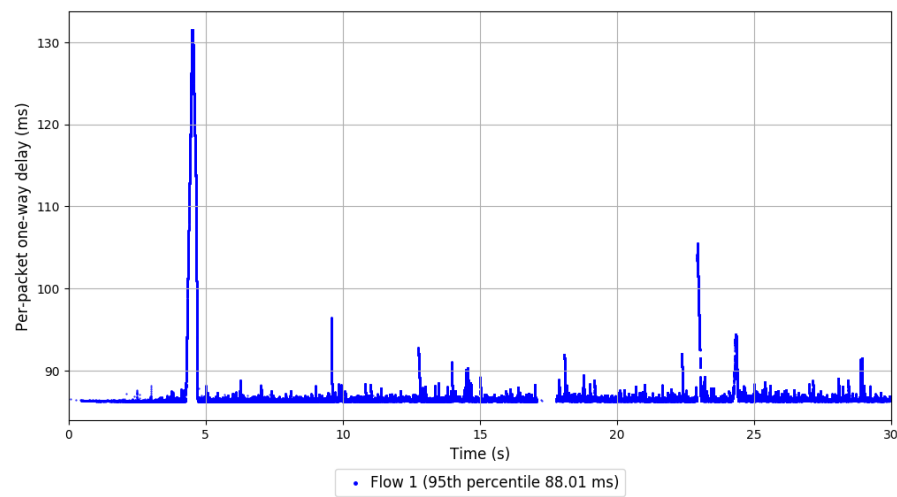
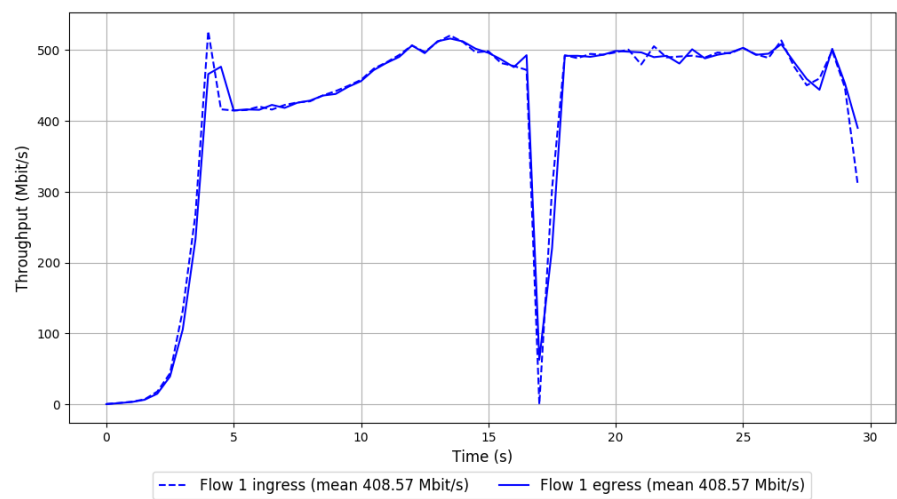
Average throughput: 408.57 Mbit/s

95th percentile per-packet one-way delay: 88.007 ms

Loss rate: 0.00%



Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-19 20:19:12

End at: 2018-02-19 20:19:42

# Below is generated by plot.py at 2018-02-20 00:37:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 407.05 Mbit/s

95th percentile per-packet one-way delay: 183.755 ms

Loss rate: 0.27%

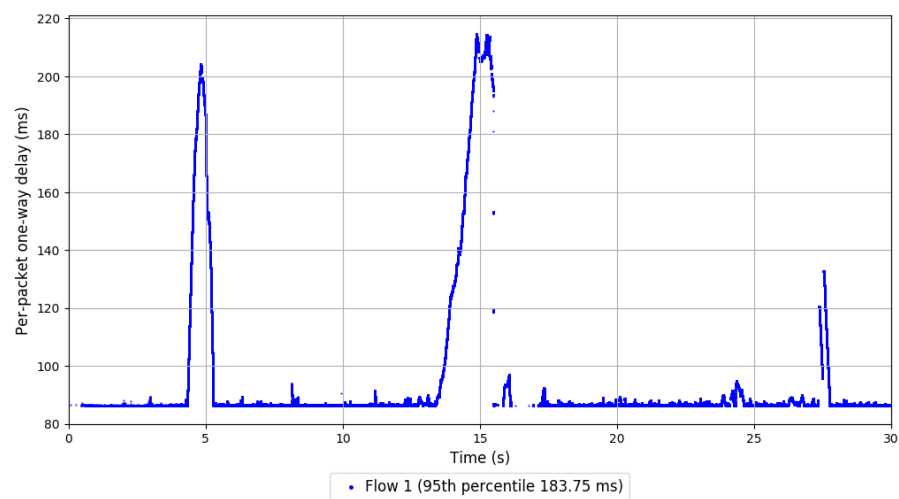
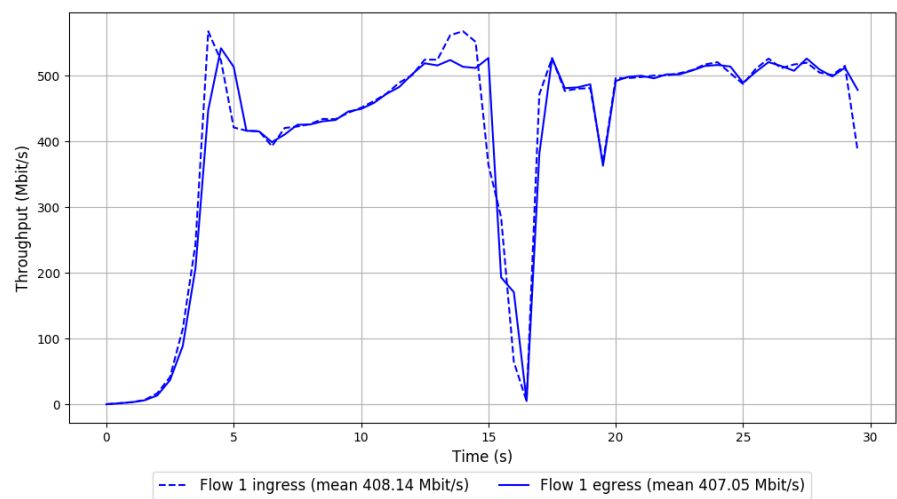
-- Flow 1:

Average throughput: 407.05 Mbit/s

95th percentile per-packet one-way delay: 183.755 ms

Loss rate: 0.27%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-19 20:34:46

End at: 2018-02-19 20:35:16

# Below is generated by plot.py at 2018-02-20 00:38:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 396.66 Mbit/s

95th percentile per-packet one-way delay: 211.004 ms

Loss rate: 0.89%

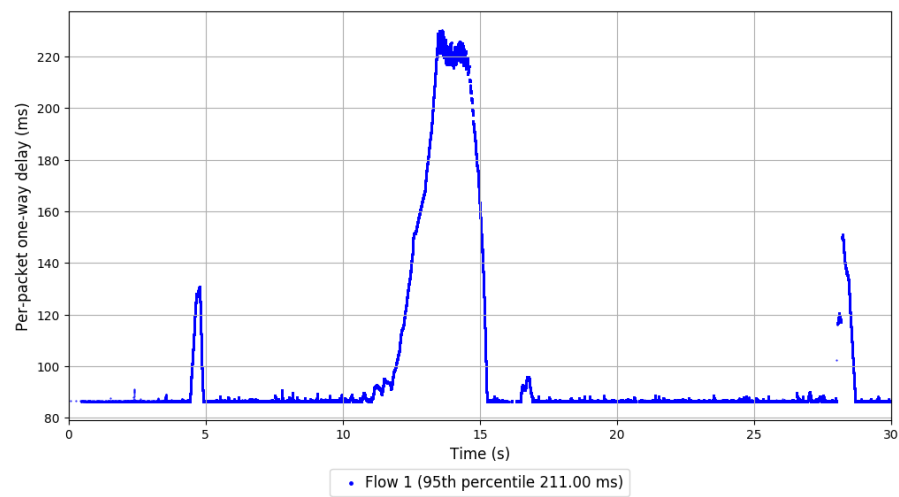
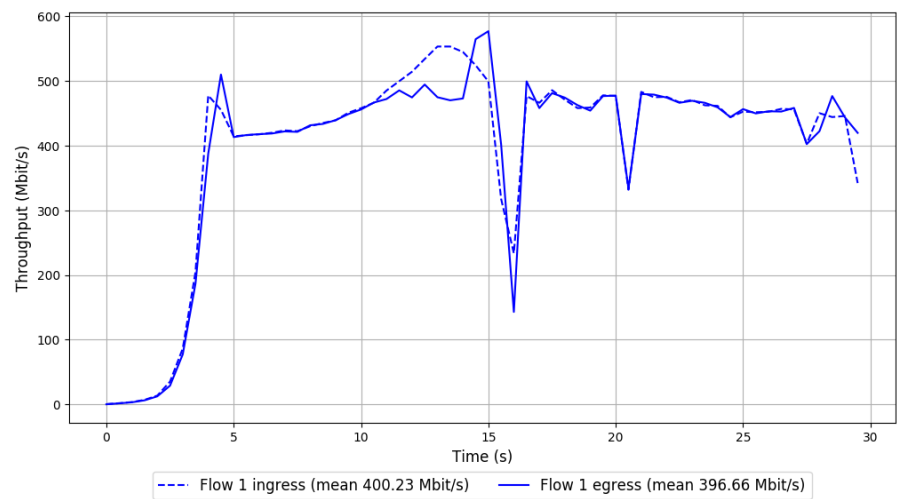
-- Flow 1:

Average throughput: 396.66 Mbit/s

95th percentile per-packet one-way delay: 211.004 ms

Loss rate: 0.89%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-19 20:49:56

End at: 2018-02-19 20:50:26

# Below is generated by plot.py at 2018-02-20 00:38:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 408.50 Mbit/s

95th percentile per-packet one-way delay: 90.528 ms

Loss rate: 0.00%

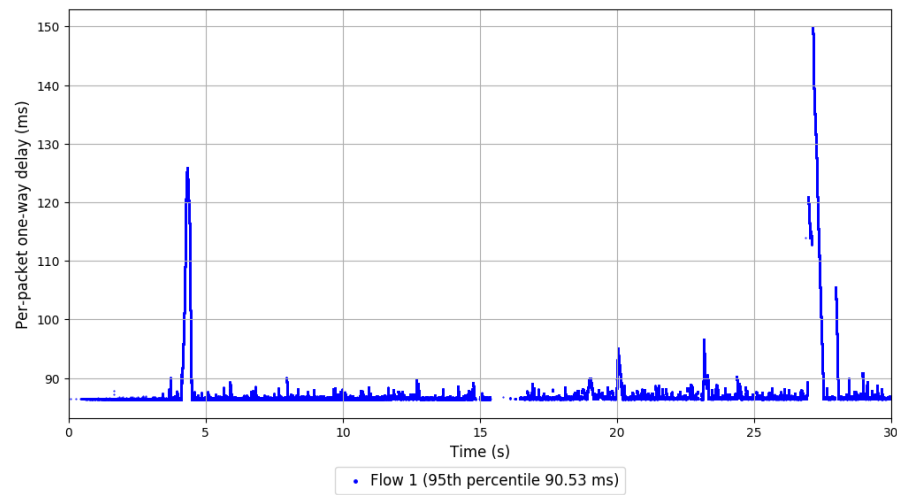
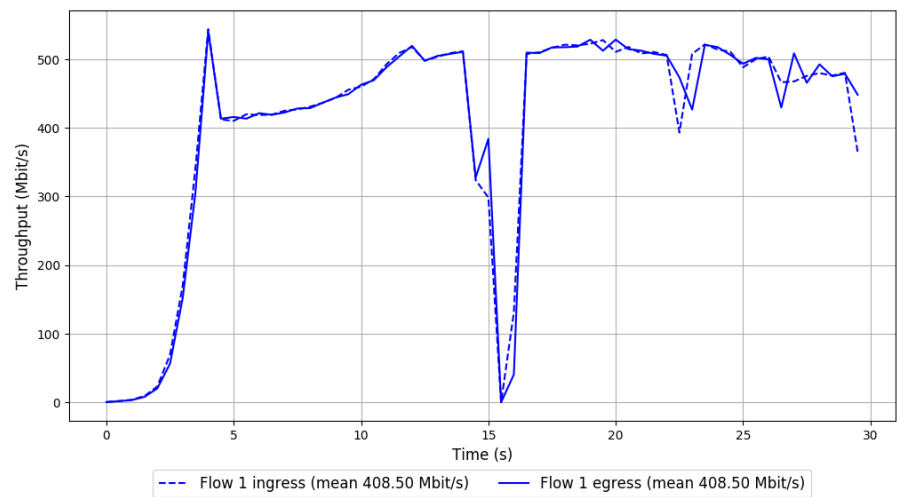
-- Flow 1:

Average throughput: 408.50 Mbit/s

95th percentile per-packet one-way delay: 90.528 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-19 21:05:14

End at: 2018-02-19 21:05:44

# Below is generated by plot.py at 2018-02-20 00:38:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 254.94 Mbit/s

95th percentile per-packet one-way delay: 191.437 ms

Loss rate: 0.00%

-- Flow 1:

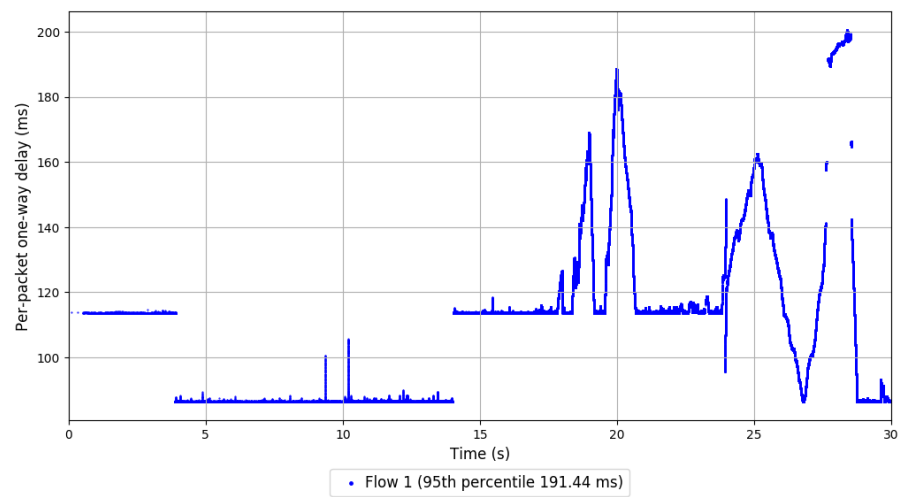
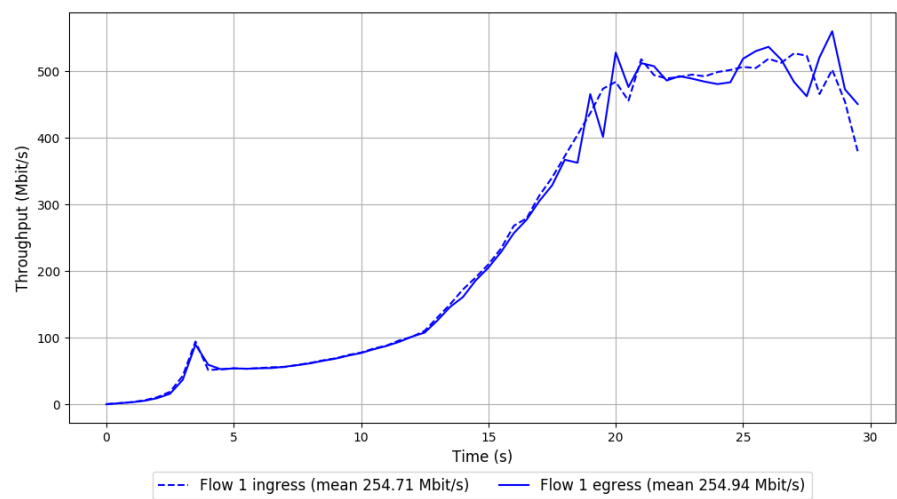
Average throughput: 254.94 Mbit/s

95th percentile per-packet one-way delay: 191.437 ms

Loss rate: 0.00%



Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-19 21:20:13

End at: 2018-02-19 21:20:43

# Below is generated by plot.py at 2018-02-20 00:38:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 351.36 Mbit/s

95th percentile per-packet one-way delay: 96.121 ms

Loss rate: 0.00%

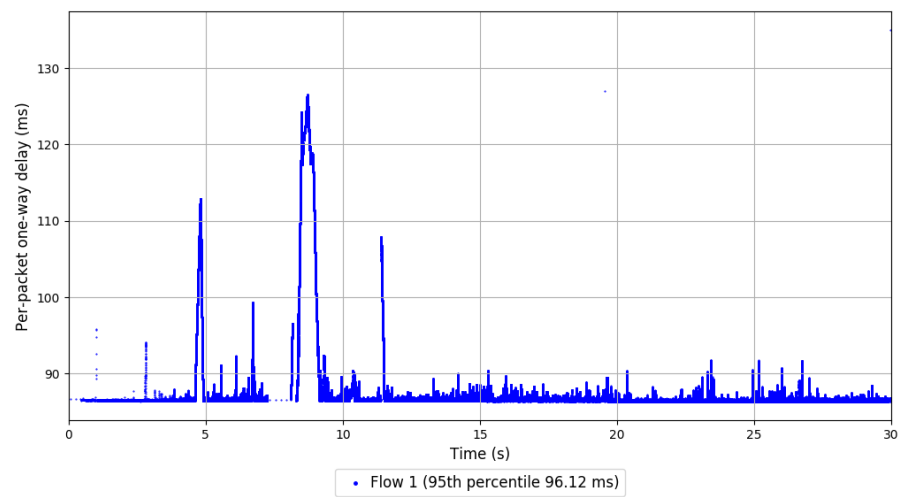
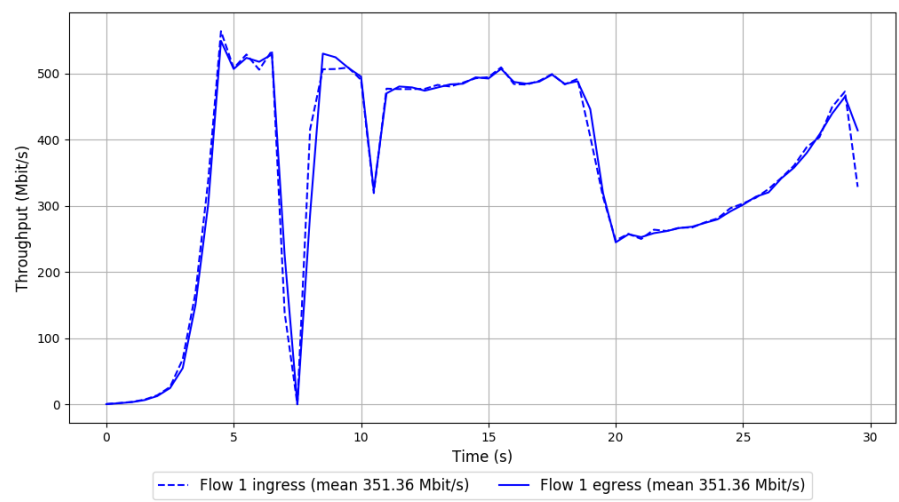
-- Flow 1:

Average throughput: 351.36 Mbit/s

95th percentile per-packet one-way delay: 96.121 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-19 21:35:07

End at: 2018-02-19 21:35:37

# Below is generated by plot.py at 2018-02-20 00:39:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 388.81 Mbit/s

95th percentile per-packet one-way delay: 100.895 ms

Loss rate: 0.25%

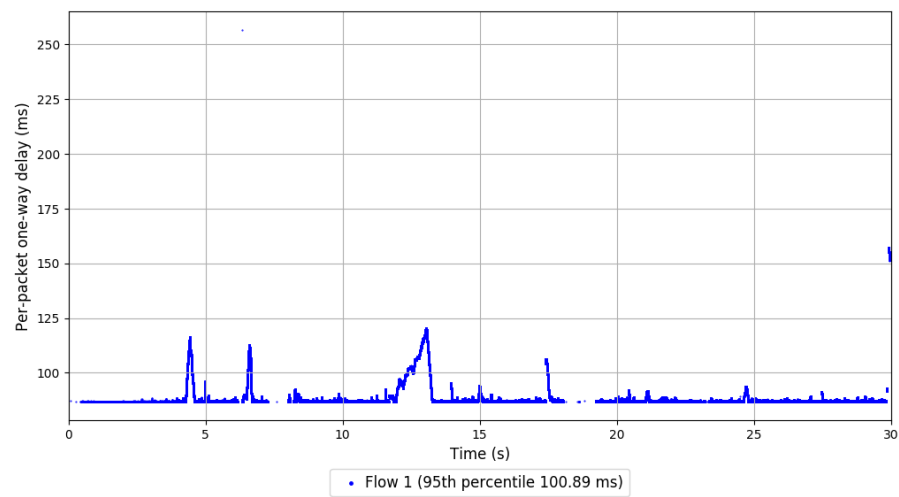
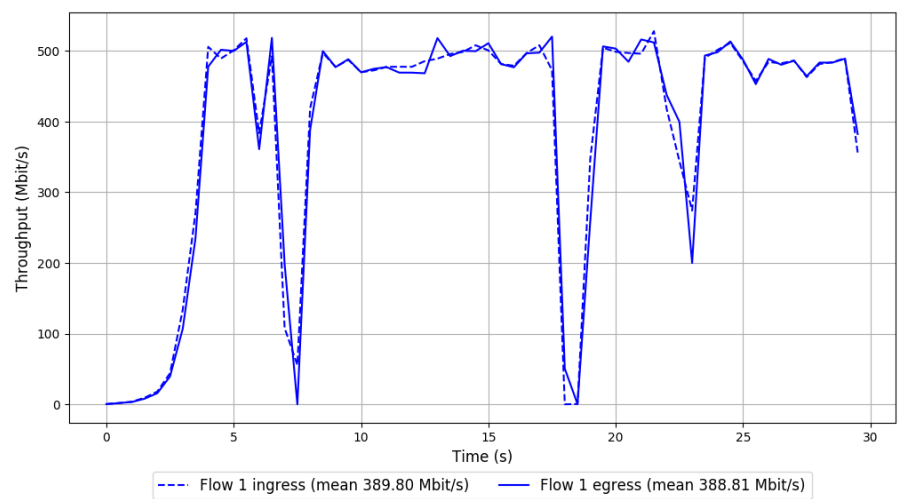
-- Flow 1:

Average throughput: 388.81 Mbit/s

95th percentile per-packet one-way delay: 100.895 ms

Loss rate: 0.25%

Run 9: Report of Vivace-loss — Data Link

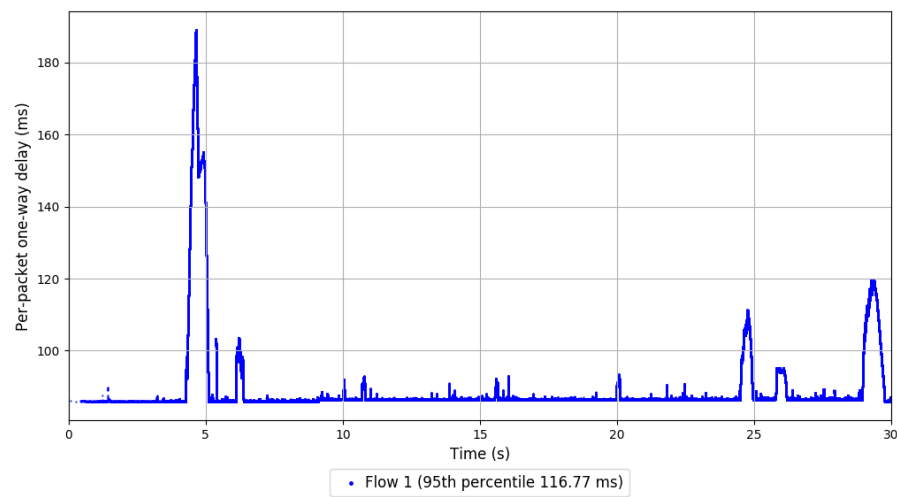
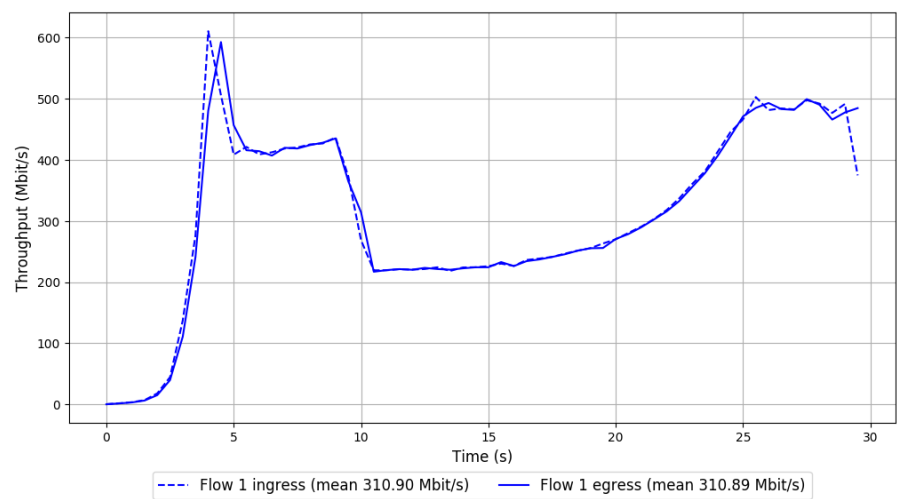


```
Run 10: Statistics of Vivace-loss

Start at: 2018-02-19 21:50:19
End at: 2018-02-19 21:50:49

# Below is generated by plot.py at 2018-02-20 00:39:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.89 Mbit/s
95th percentile per-packet one-way delay: 116.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 310.89 Mbit/s
95th percentile per-packet one-way delay: 116.765 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-loss — Data Link



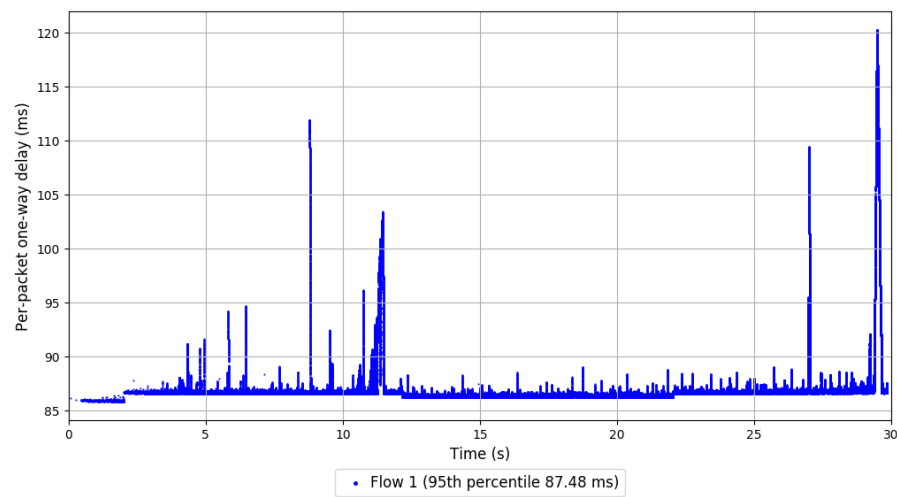
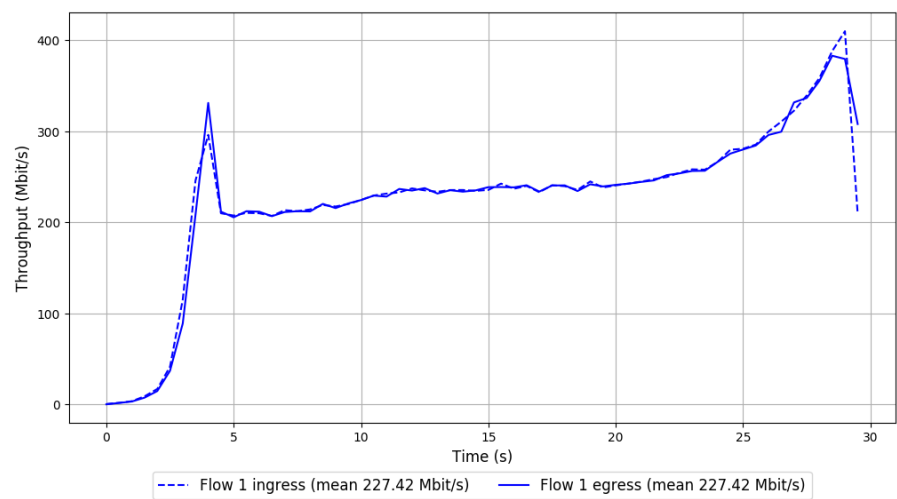
```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-19 19:26:15
End at: 2018-02-19 19:26:46

# Below is generated by plot.py at 2018-02-20 00:40:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.42 Mbit/s
95th percentile per-packet one-way delay: 87.482 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.42 Mbit/s
95th percentile per-packet one-way delay: 87.482 ms
Loss rate: 0.00%
```



Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-19 19:41:14

End at: 2018-02-19 19:41:44

# Below is generated by plot.py at 2018-02-20 00:44:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 410.56 Mbit/s

95th percentile per-packet one-way delay: 102.253 ms

Loss rate: 0.10%

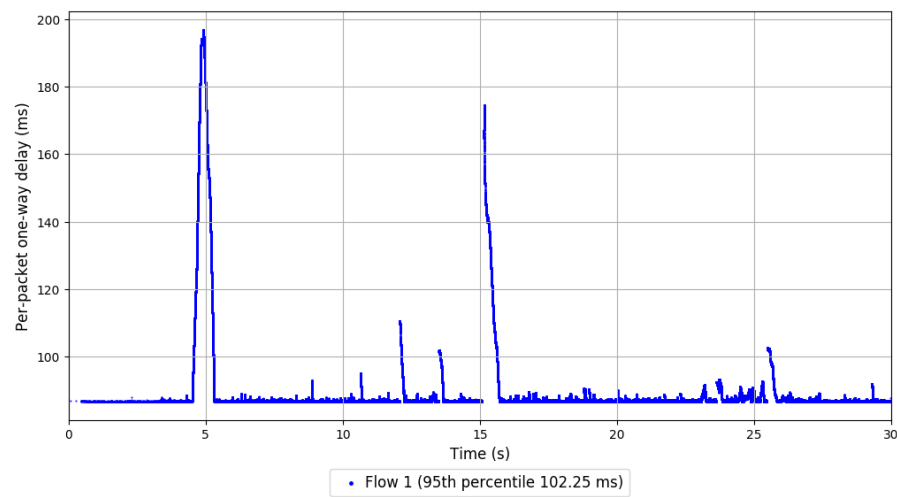
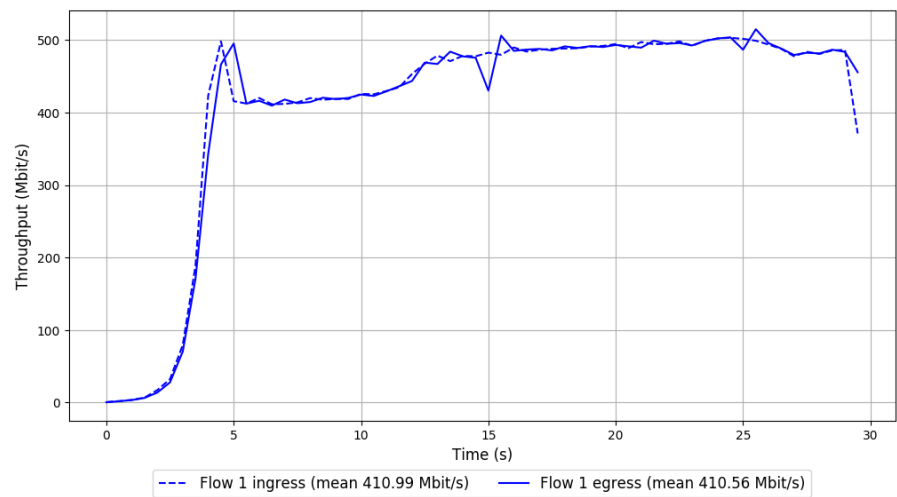
-- Flow 1:

Average throughput: 410.56 Mbit/s

95th percentile per-packet one-way delay: 102.253 ms

Loss rate: 0.10%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-19 19:56:30

End at: 2018-02-19 19:57:00

# Below is generated by plot.py at 2018-02-20 00:44:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 362.58 Mbit/s

95th percentile per-packet one-way delay: 103.983 ms

Loss rate: 0.01%

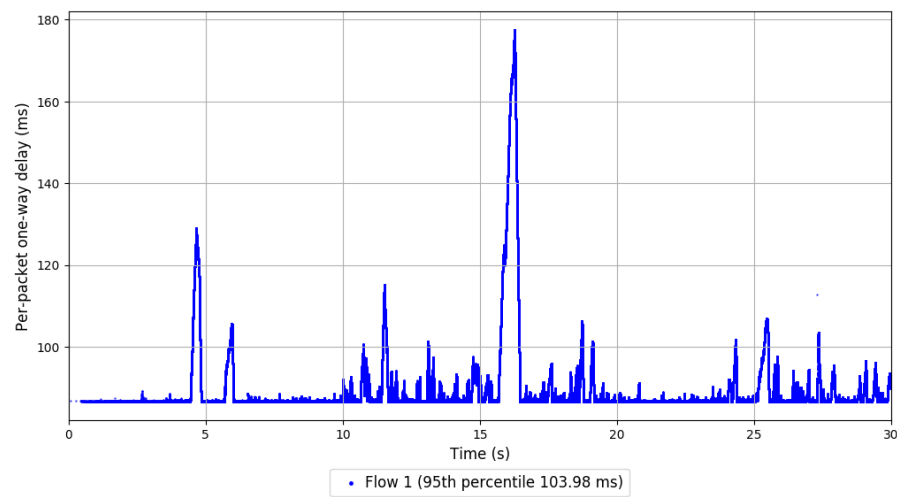
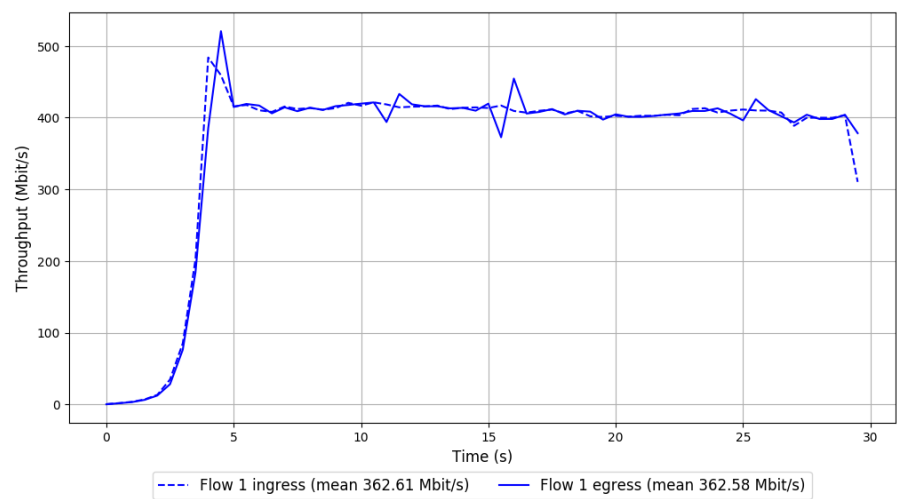
-- Flow 1:

Average throughput: 362.58 Mbit/s

95th percentile per-packet one-way delay: 103.983 ms

Loss rate: 0.01%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-19 20:11:45

End at: 2018-02-19 20:12:15

# Below is generated by plot.py at 2018-02-20 00:45:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 414.46 Mbit/s

95th percentile per-packet one-way delay: 86.950 ms

Loss rate: 0.00%

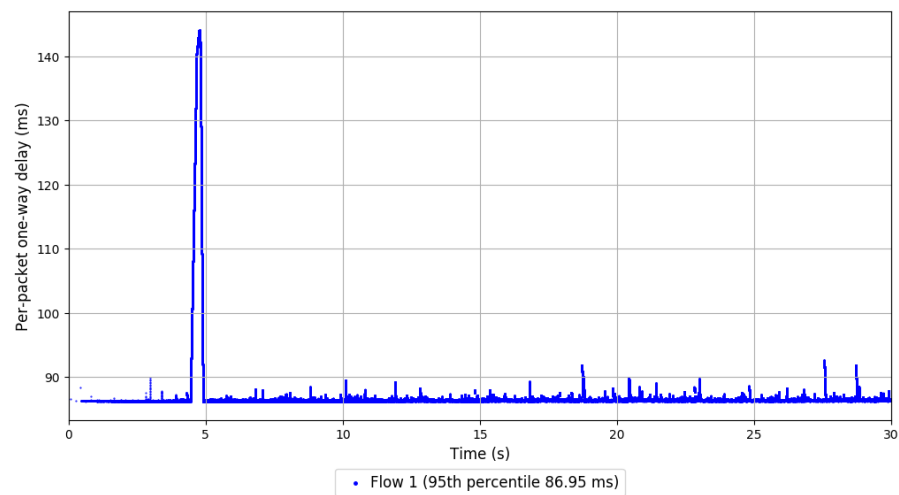
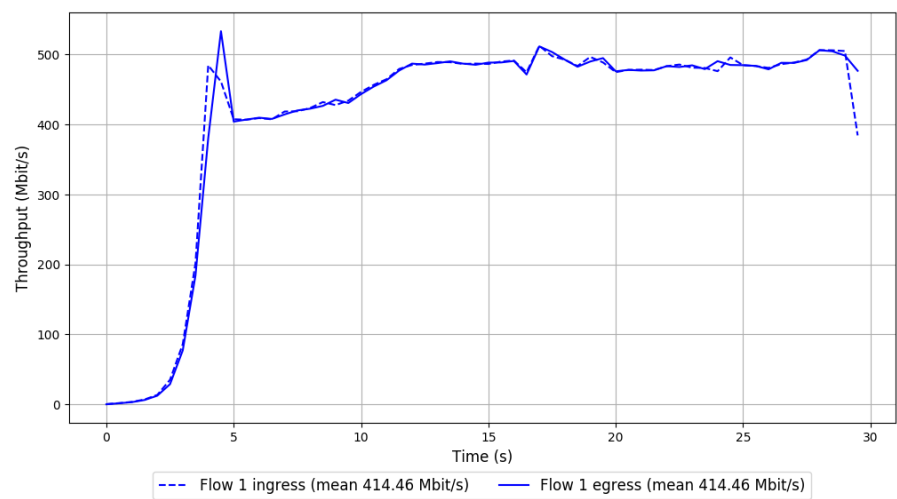
-- Flow 1:

Average throughput: 414.46 Mbit/s

95th percentile per-packet one-way delay: 86.950 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-19 20:27:11

End at: 2018-02-19 20:27:41

# Below is generated by plot.py at 2018-02-20 00:45:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 397.01 Mbit/s

95th percentile per-packet one-way delay: 94.924 ms

Loss rate: 0.00%

-- Flow 1:

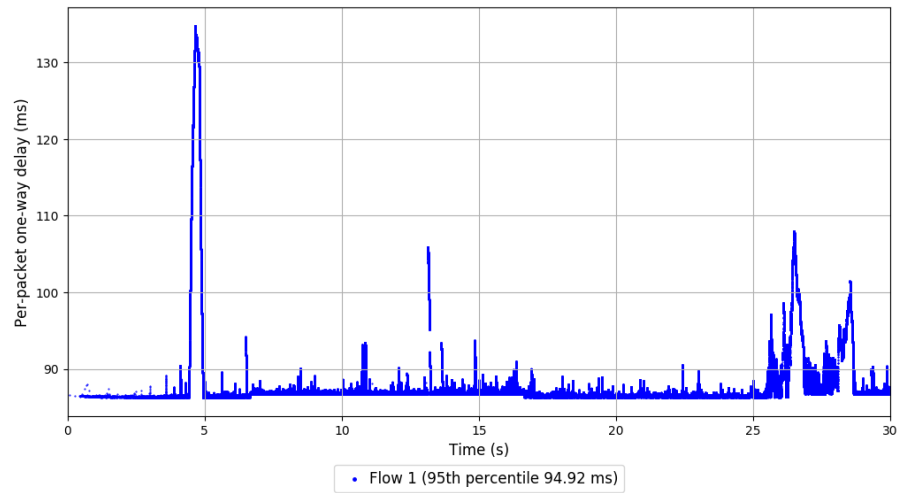
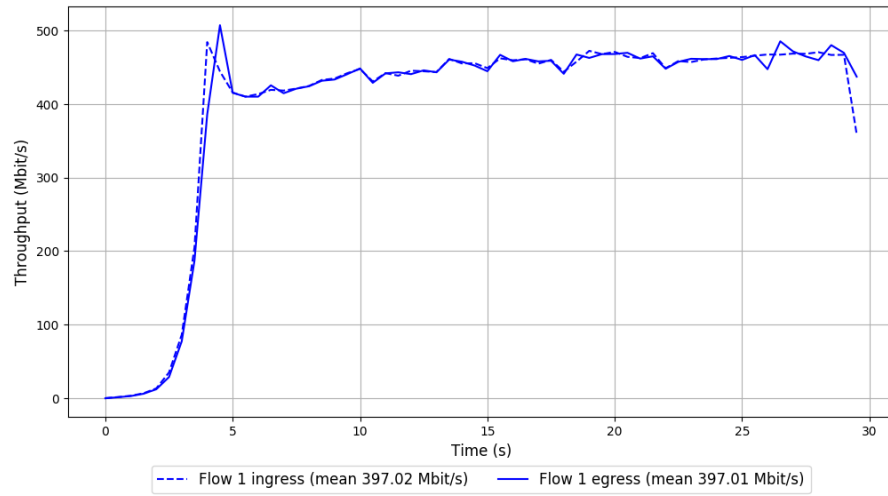
Average throughput: 397.01 Mbit/s

95th percentile per-packet one-way delay: 94.924 ms

Loss rate: 0.00%



### Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-19 20:42:32

End at: 2018-02-19 20:43:02

# Below is generated by plot.py at 2018-02-20 00:45:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 282.30 Mbit/s

95th percentile per-packet one-way delay: 86.715 ms

Loss rate: 0.00%

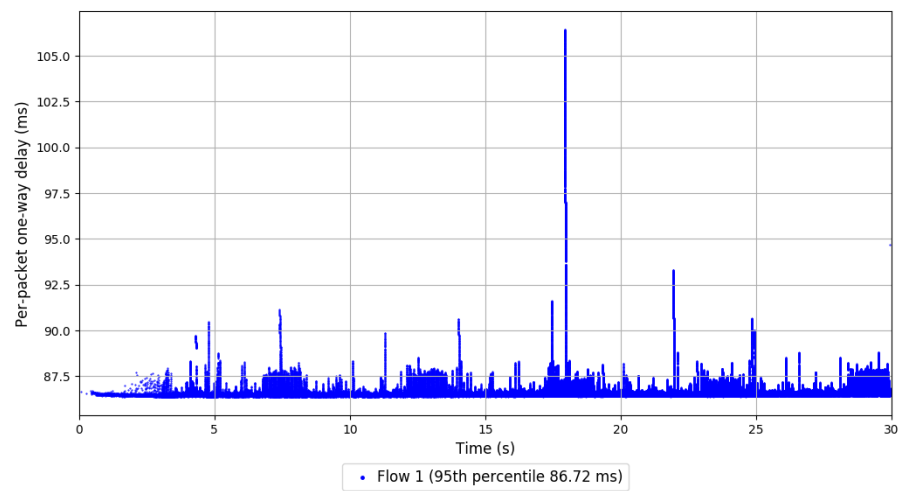
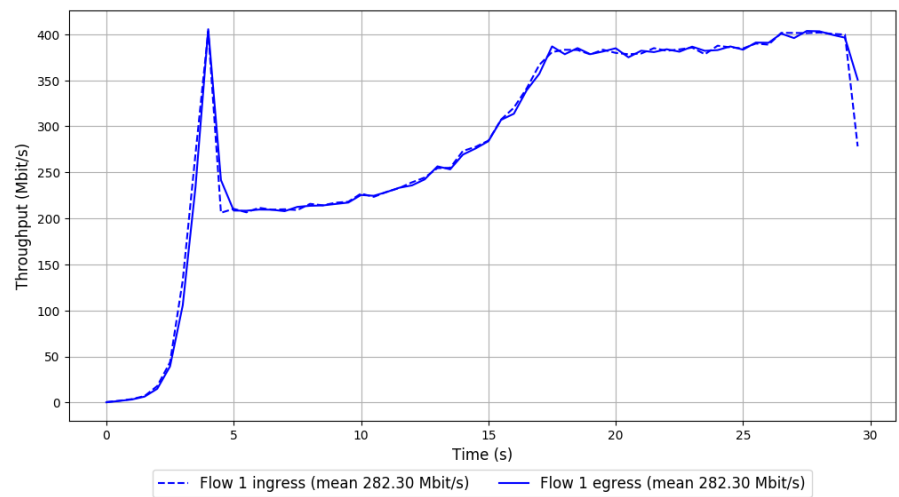
-- Flow 1:

Average throughput: 282.30 Mbit/s

95th percentile per-packet one-way delay: 86.715 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-19 20:57:49

End at: 2018-02-19 20:58:19

# Below is generated by plot.py at 2018-02-20 00:45:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 396.77 Mbit/s

95th percentile per-packet one-way delay: 118.322 ms

Loss rate: 0.00%

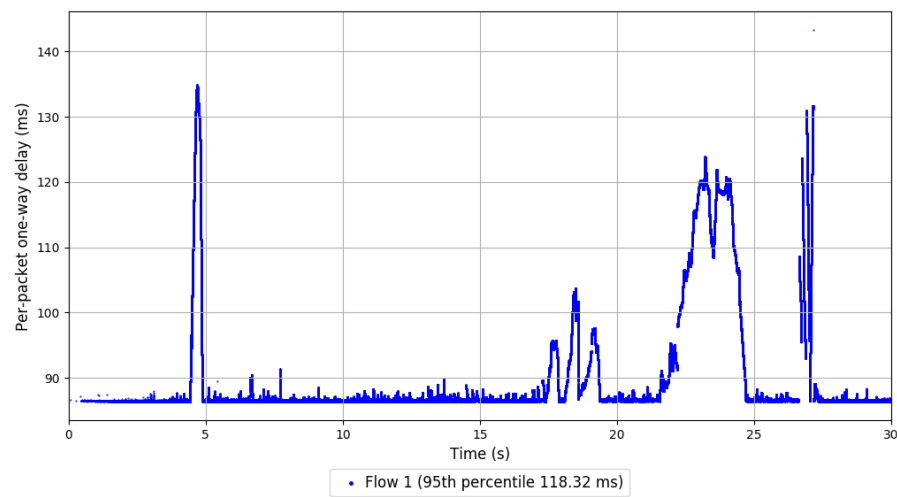
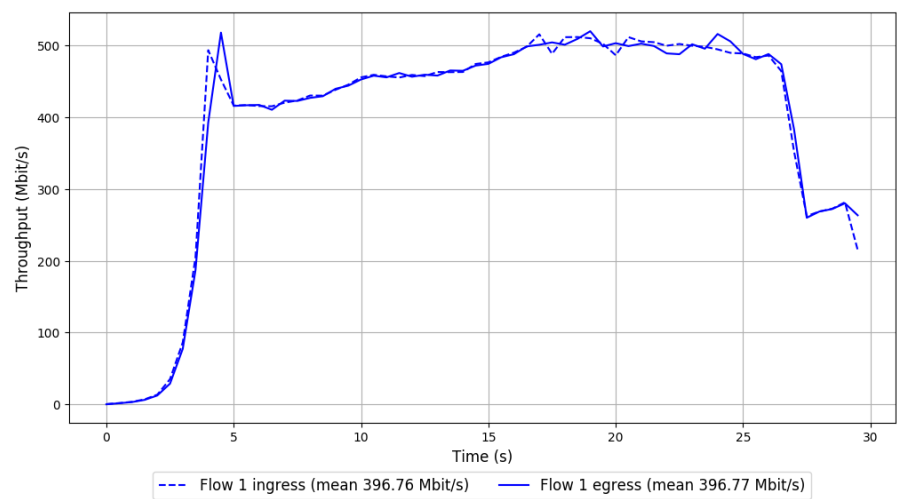
-- Flow 1:

Average throughput: 396.77 Mbit/s

95th percentile per-packet one-way delay: 118.322 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-19 21:12:44

End at: 2018-02-19 21:13:14

# Below is generated by plot.py at 2018-02-20 00:45:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 409.45 Mbit/s

95th percentile per-packet one-way delay: 106.987 ms

Loss rate: 0.00%

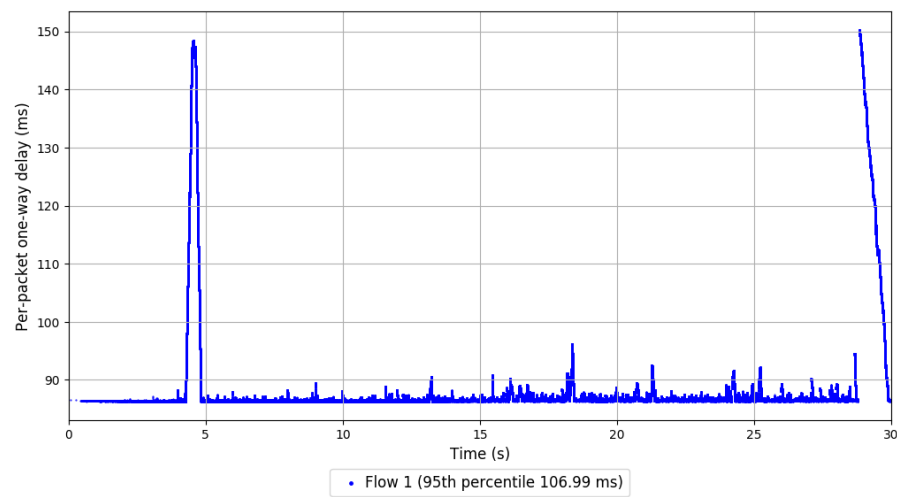
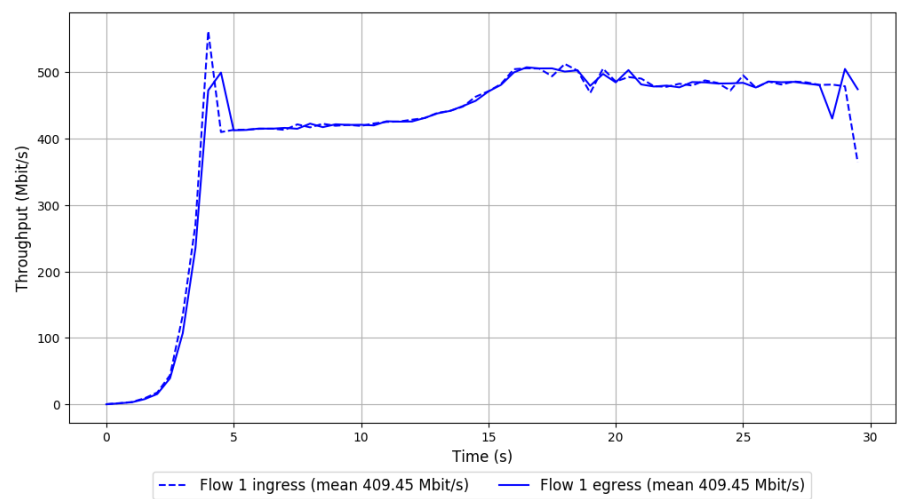
-- Flow 1:

Average throughput: 409.45 Mbit/s

95th percentile per-packet one-way delay: 106.987 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-19 21:27:45

End at: 2018-02-19 21:28:15

# Below is generated by plot.py at 2018-02-20 00:45:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 317.30 Mbit/s

95th percentile per-packet one-way delay: 86.872 ms

Loss rate: 0.00%

-- Flow 1:

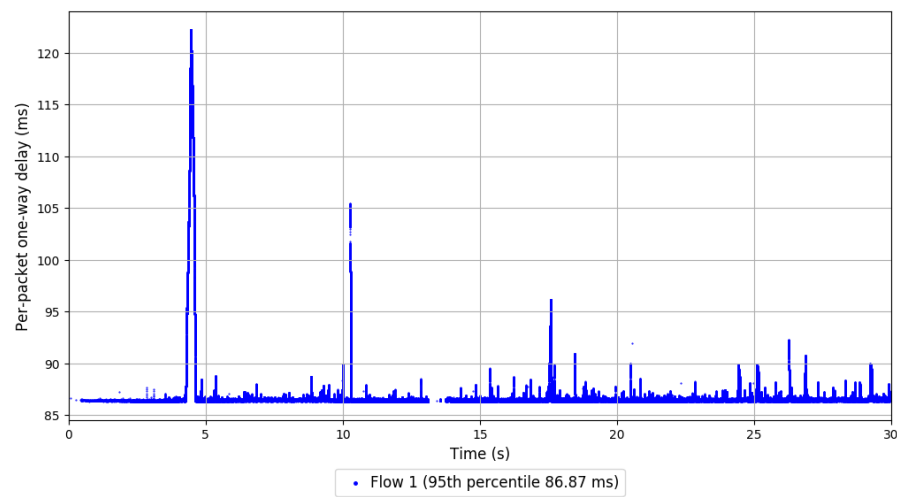
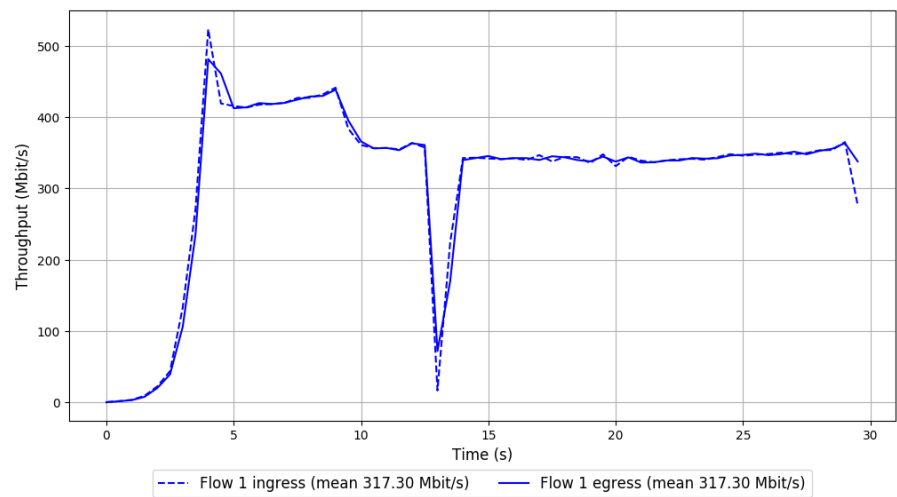
Average throughput: 317.30 Mbit/s

95th percentile per-packet one-way delay: 86.872 ms

Loss rate: 0.00%



Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-19 21:42:52

End at: 2018-02-19 21:43:22

# Below is generated by plot.py at 2018-02-20 00:45:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 264.16 Mbit/s

95th percentile per-packet one-way delay: 110.336 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 264.16 Mbit/s

95th percentile per-packet one-way delay: 110.336 ms

Loss rate: 0.92%

Run 10: Report of Vivace-LTE — Data Link

