

## Pantheon Report

Generated at 2018-02-20 07:32:31 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

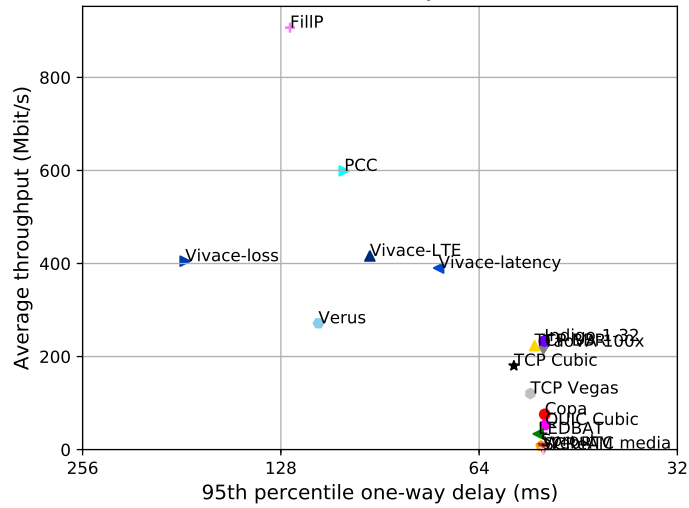
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

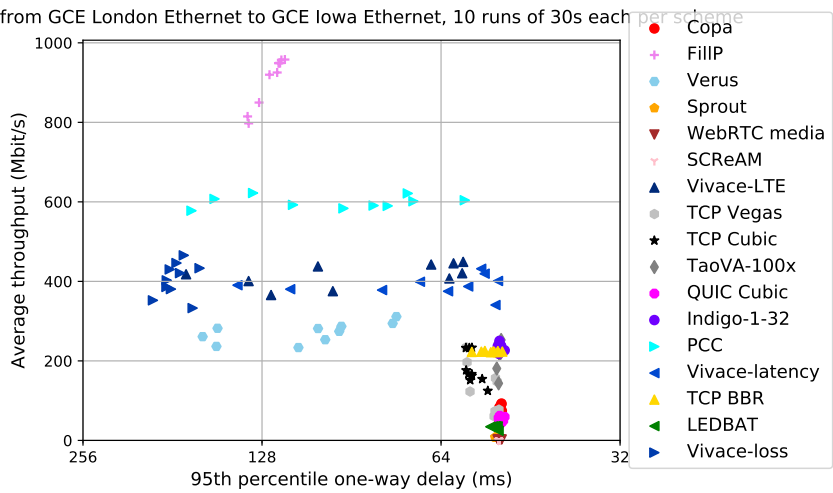
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5ceec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 @ f1a14bffe749737437f61b1eaeab30b267cde681
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 London Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



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



| scheme         | # runs | mean avg tput (Mbit/s)<br>flow 1 | mean 95th-%ile delay (ms)<br>flow 1 | mean loss rate (%)<br>flow 1 |
|----------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR        | 10     | 223.32                           | 52.72                               | 0.32                         |
| TCP Cubic      | 10     | 180.19                           | 56.67                               | 0.41                         |
| LEDBAT         | 10     | 33.74                            | 52.07                               | 0.68                         |
| PCC            | 10     | 599.09                           | 102.55                              | 0.64                         |
| QUIC Cubic     | 10     | 53.08                            | 50.81                               | 0.47                         |
| SCReAM         | 10     | 0.22                             | 51.15                               | 0.38                         |
| WebRTC media   | 10     | 2.21                             | 51.13                               | 0.44                         |
| Sprout         | 10     | 7.98                             | 51.57                               | 0.39                         |
| TaoVA-100x     | 10     | 221.16                           | 51.11                               | 0.33                         |
| TCP Vegas      | 10     | 120.51                           | 53.50                               | 0.31                         |
| Verus          | 10     | 271.47                           | 112.26                              | 0.92                         |
| Copa           | 10     | 75.79                            | 50.88                               | 0.20                         |
| FillP          | 10     | 906.96                           | 123.97                              | 4.85                         |
| Indigo-1-32    | 10     | 233.26                           | 50.96                               | 0.35                         |
| Vivace-latency | 10     | 390.30                           | 73.74                               | 0.57                         |
| Vivace-loss    | 10     | 404.99                           | 178.84                              | 4.49                         |
| Vivace-LTE     | 10     | 416.26                           | 93.77                               | 0.58                         |

Run 1: Statistics of TCP BBR

Start at: 2018-02-20 00:48:11

End at: 2018-02-20 00:48:41

# Below is generated by plot.py at 2018-02-20 06:00:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 222.79 Mbit/s

95th percentile per-packet one-way delay: 52.064 ms

Loss rate: 0.37%

-- Flow 1:

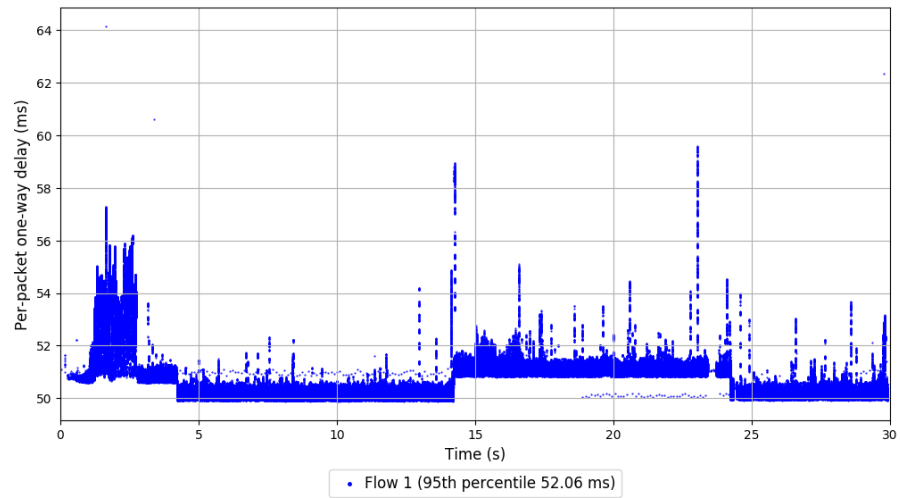
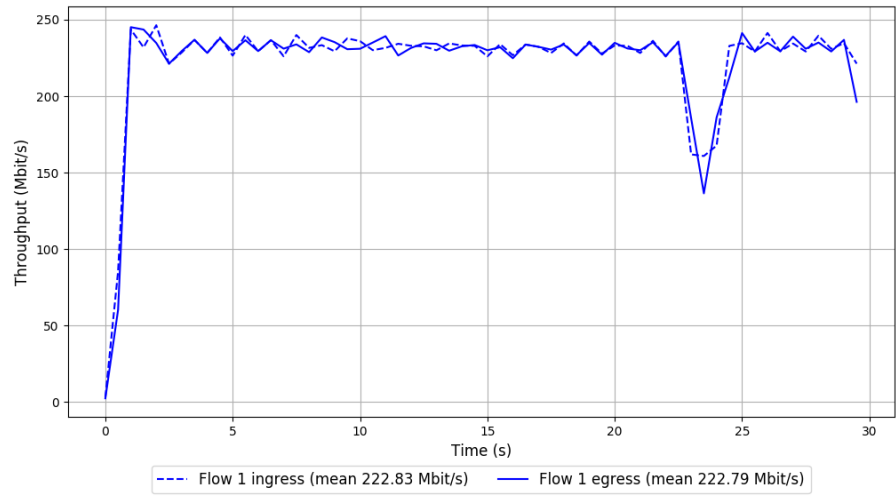
Average throughput: 222.79 Mbit/s

95th percentile per-packet one-way delay: 52.064 ms

Loss rate: 0.37%



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-20 01:03:03

End at: 2018-02-20 01:03:33

# Below is generated by plot.py at 2018-02-20 06:00:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 222.59 Mbit/s

95th percentile per-packet one-way delay: 56.805 ms

Loss rate: 0.35%

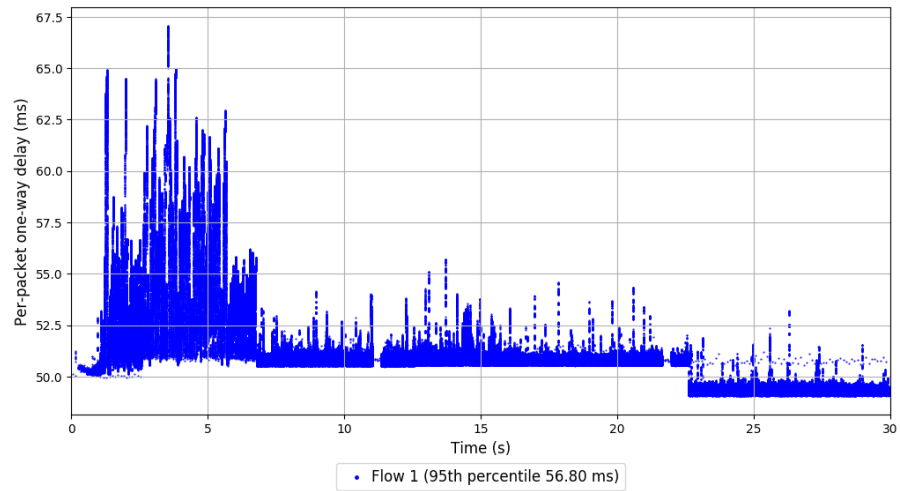
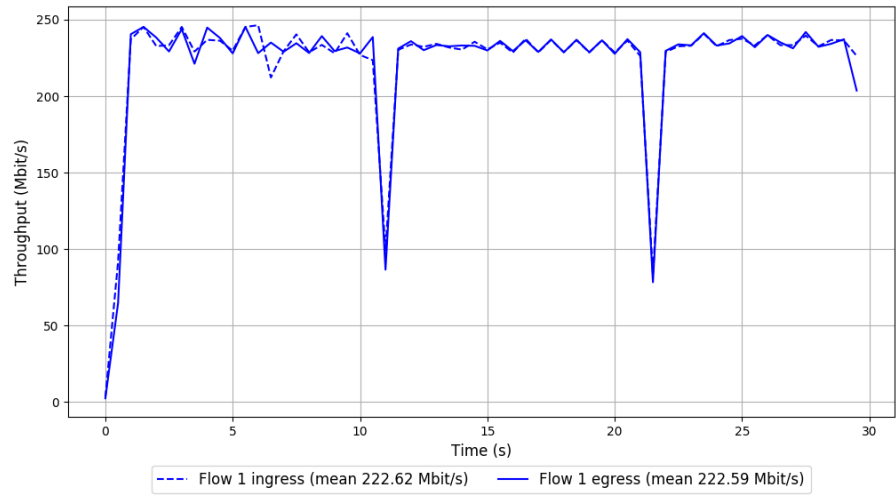
-- Flow 1:

Average throughput: 222.59 Mbit/s

95th percentile per-packet one-way delay: 56.805 ms

Loss rate: 0.35%

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



Run 3: Statistics of TCP BBR

Start at: 2018-02-20 01:18:00

End at: 2018-02-20 01:18:30

# Below is generated by plot.py at 2018-02-20 06:00:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 224.45 Mbit/s

95th percentile per-packet one-way delay: 51.354 ms

Loss rate: 0.35%

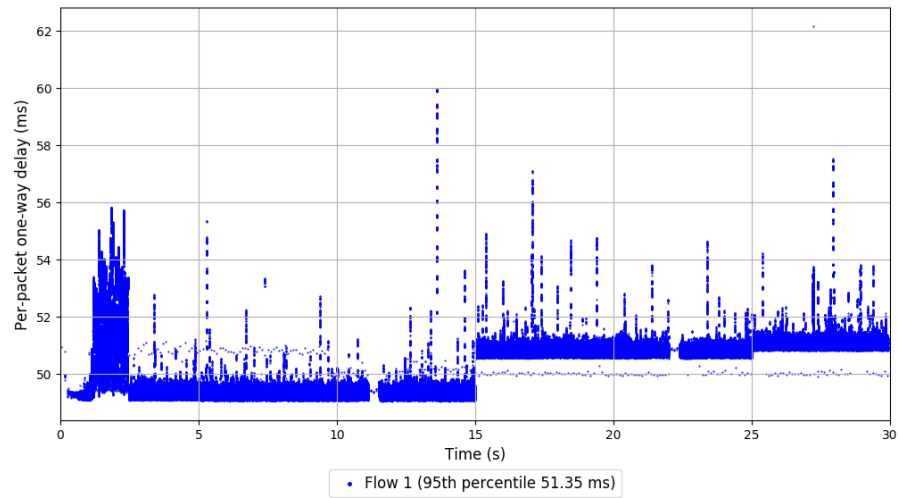
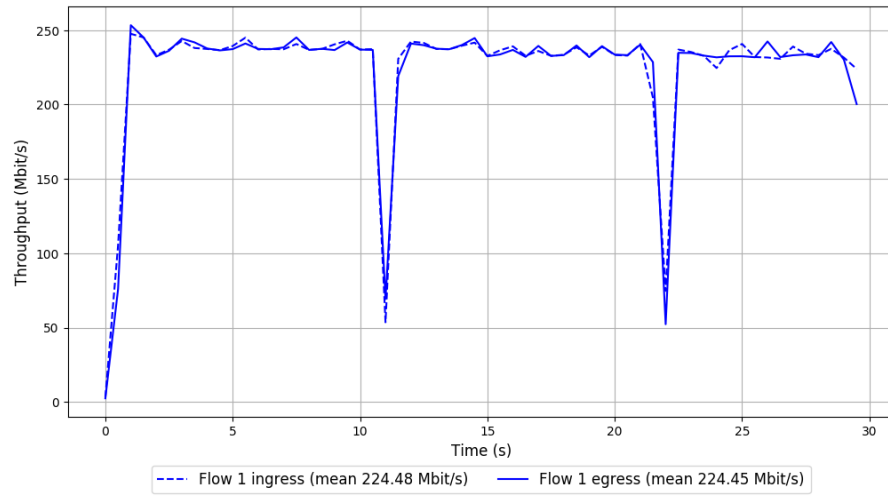
-- Flow 1:

Average throughput: 224.45 Mbit/s

95th percentile per-packet one-way delay: 51.354 ms

Loss rate: 0.35%

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



Run 4: Statistics of TCP BBR

Start at: 2018-02-20 01:32:46

End at: 2018-02-20 01:33:16

# Below is generated by plot.py at 2018-02-20 06:00:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.18 Mbit/s

95th percentile per-packet one-way delay: 54.753 ms

Loss rate: 0.35%

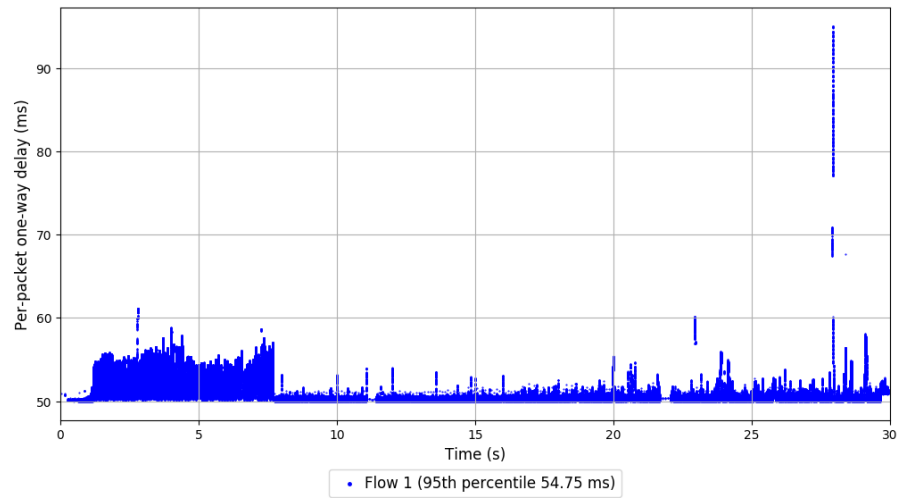
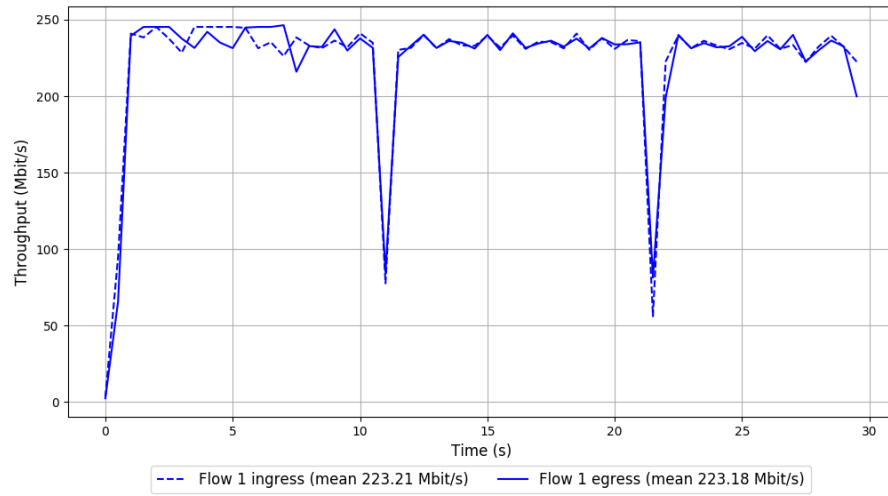
-- Flow 1:

Average throughput: 223.18 Mbit/s

95th percentile per-packet one-way delay: 54.753 ms

Loss rate: 0.35%

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



Run 5: Statistics of TCP BBR

Start at: 2018-02-20 01:47:27

End at: 2018-02-20 01:47:57

# Below is generated by plot.py at 2018-02-20 06:00:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 225.05 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

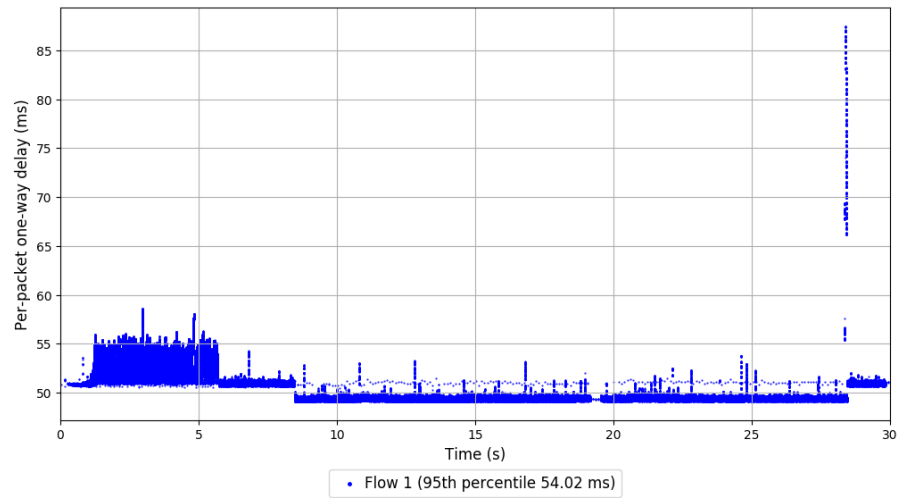
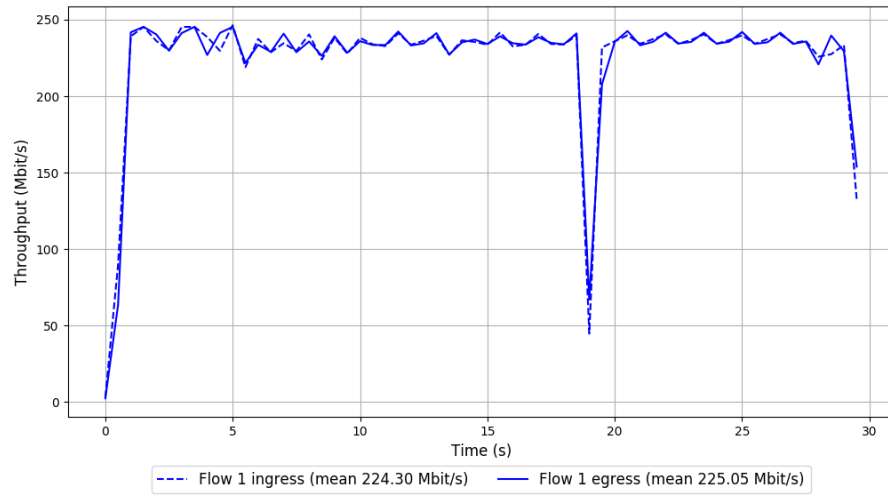
Average throughput: 225.05 Mbit/s

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

Loss rate: 0.00%



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



Run 6: Statistics of TCP BBR

Start at: 2018-02-20 02:02:18

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

# Below is generated by plot.py at 2018-02-20 06:00:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 221.98 Mbit/s

95th percentile per-packet one-way delay: 51.313 ms

Loss rate: 0.35%

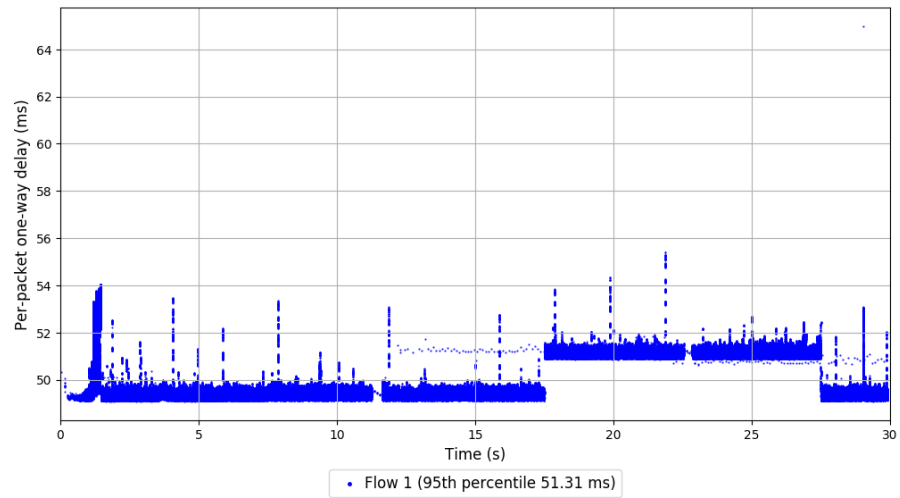
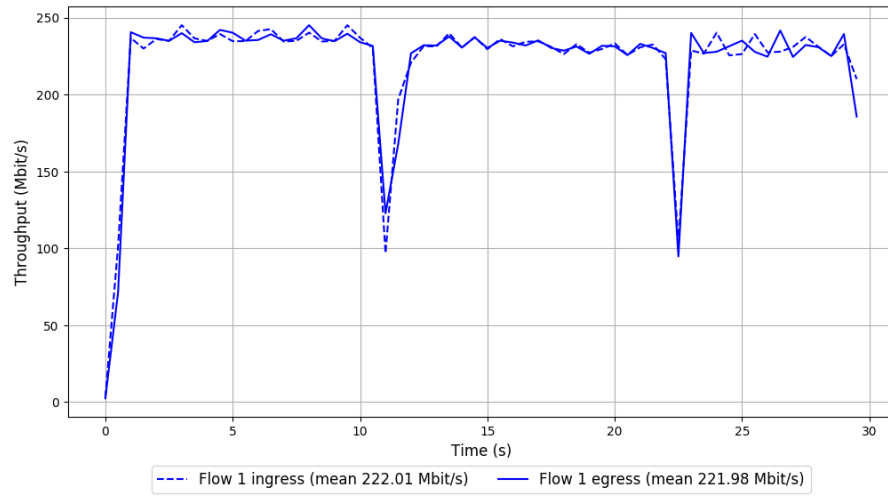
-- Flow 1:

Average throughput: 221.98 Mbit/s

95th percentile per-packet one-way delay: 51.313 ms

Loss rate: 0.35%

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



Run 7: Statistics of TCP BBR

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

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

# Below is generated by plot.py at 2018-02-20 06:00:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.97 Mbit/s

95th percentile per-packet one-way delay: 52.285 ms

Loss rate: 0.36%

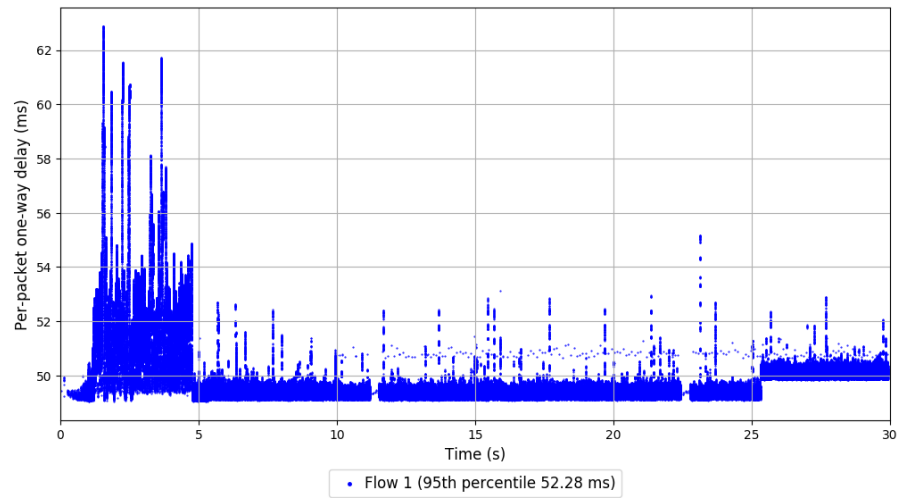
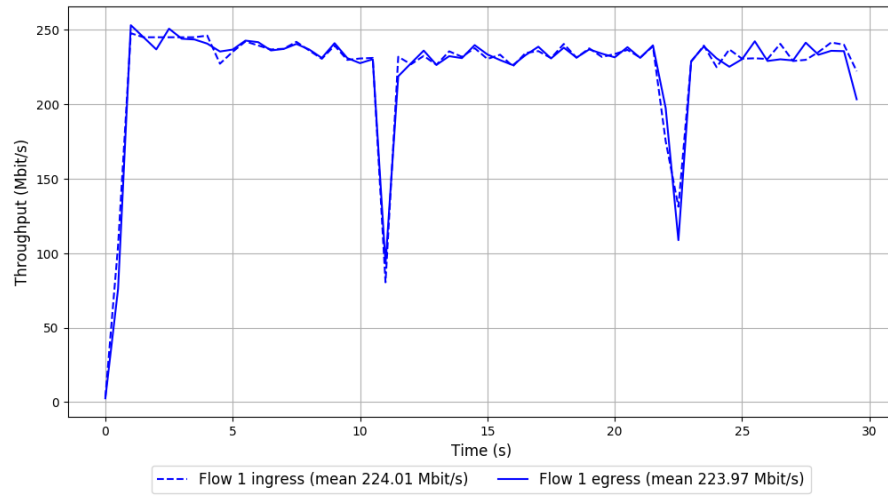
-- Flow 1:

Average throughput: 223.97 Mbit/s

95th percentile per-packet one-way delay: 52.285 ms

Loss rate: 0.36%

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



Run 8: Statistics of TCP BBR

Start at: 2018-02-20 02:31:45

End at: 2018-02-20 02:32:15

# Below is generated by plot.py at 2018-02-20 06:00:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.53 Mbit/s

95th percentile per-packet one-way delay: 50.480 ms

Loss rate: 0.37%

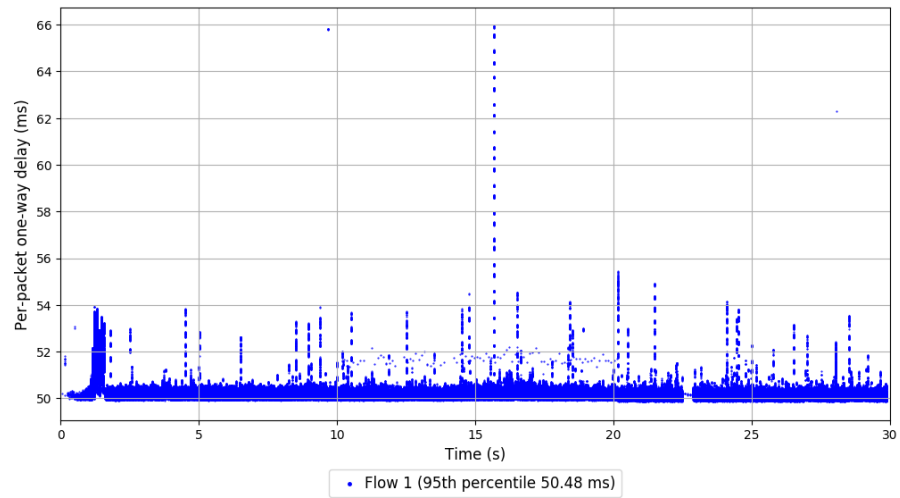
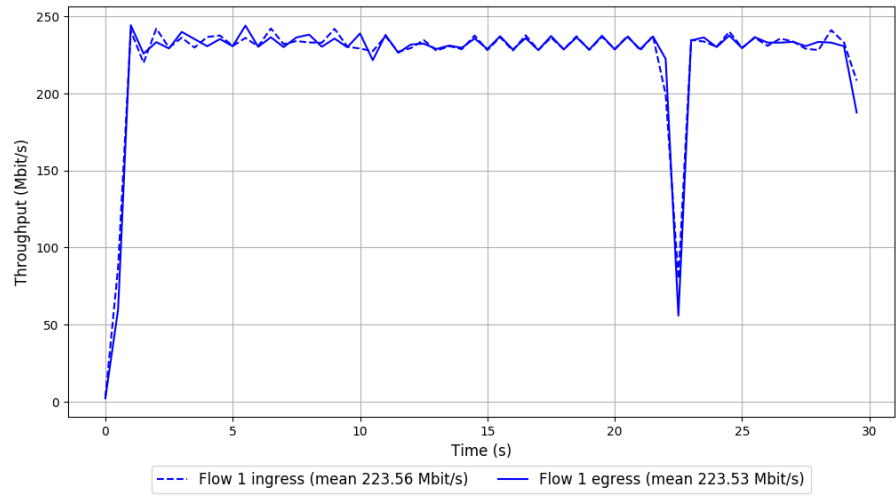
-- Flow 1:

Average throughput: 223.53 Mbit/s

95th percentile per-packet one-way delay: 50.480 ms

Loss rate: 0.37%

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



Run 9: Statistics of TCP BBR

Start at: 2018-02-20 02:46:21

End at: 2018-02-20 02:46:52

# Below is generated by plot.py at 2018-02-20 06:04:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.77 Mbit/s

95th percentile per-packet one-way delay: 51.383 ms

Loss rate: 0.37%

-- Flow 1:

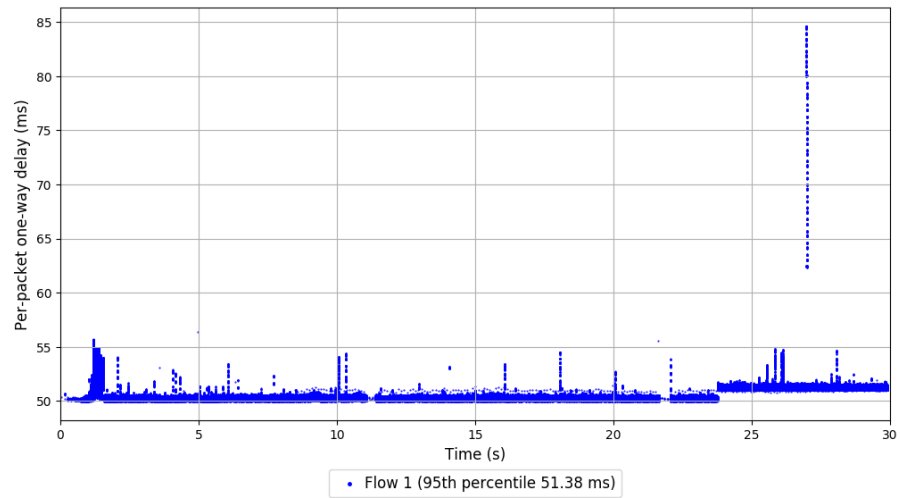
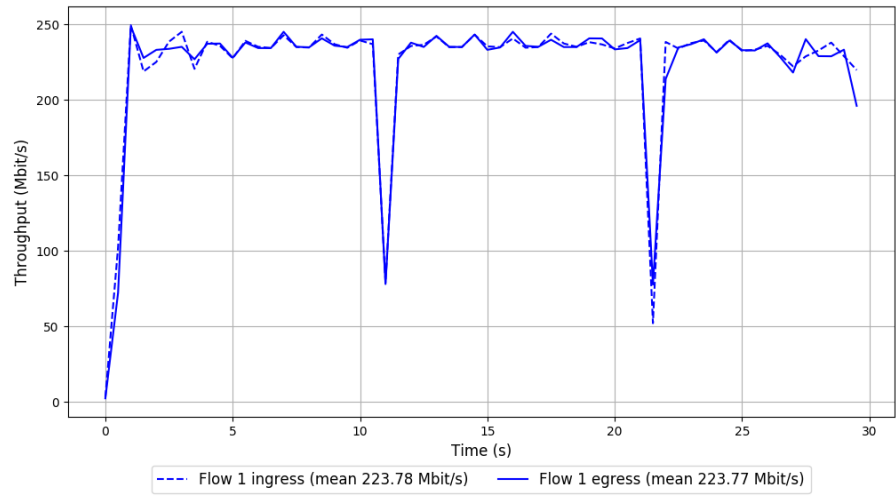
Average throughput: 223.77 Mbit/s

95th percentile per-packet one-way delay: 51.383 ms

Loss rate: 0.37%



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



Run 10: Statistics of TCP BBR

Start at: 2018-02-20 03:01:09

End at: 2018-02-20 03:01:39

# Below is generated by plot.py at 2018-02-20 06:04:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 221.86 Mbit/s

95th percentile per-packet one-way delay: 52.775 ms

Loss rate: 0.35%

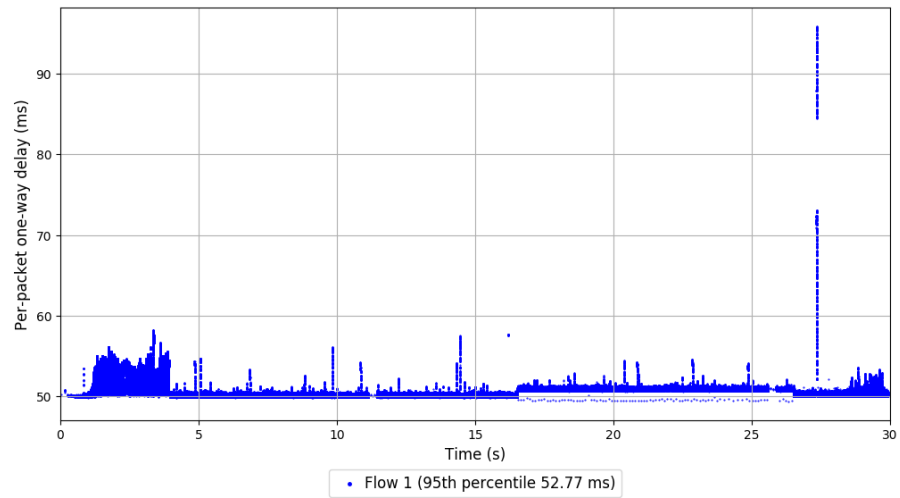
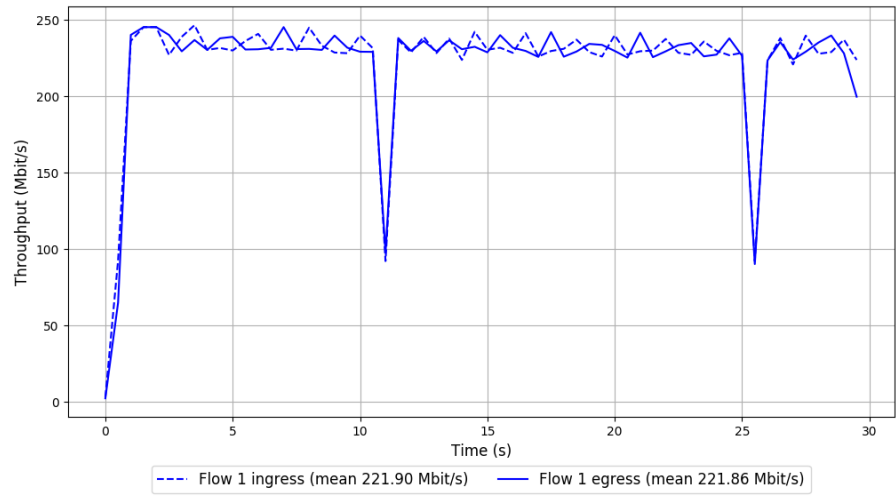
-- Flow 1:

Average throughput: 221.86 Mbit/s

95th percentile per-packet one-way delay: 52.775 ms

Loss rate: 0.35%

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



Run 1: Statistics of TCP Cubic

Start at: 2018-02-20 00:59:52

End at: 2018-02-20 01:00:22

# Below is generated by plot.py at 2018-02-20 06:04:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 166.94 Mbit/s

95th percentile per-packet one-way delay: 56.839 ms

Loss rate: 0.53%

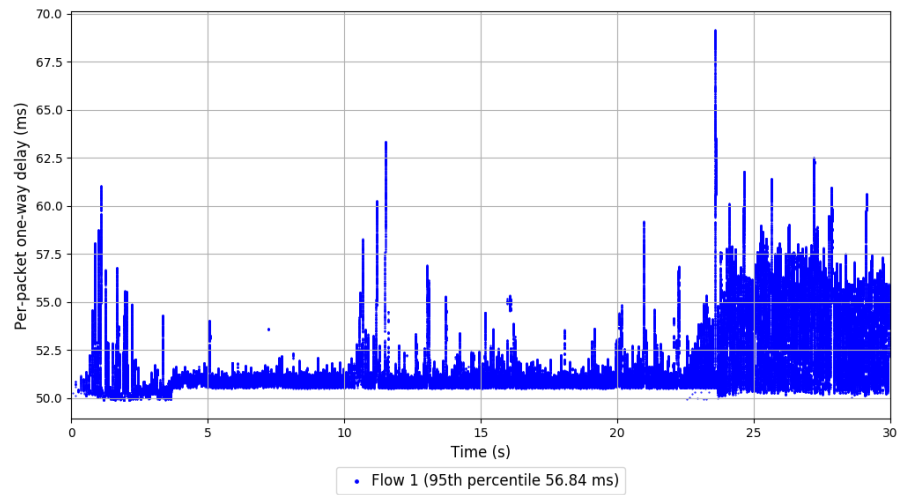
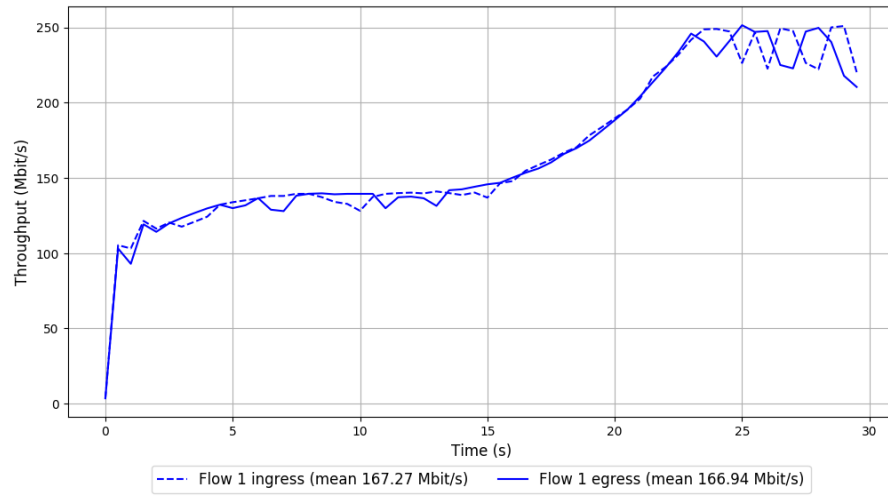
-- Flow 1:

Average throughput: 166.94 Mbit/s

95th percentile per-packet one-way delay: 56.839 ms

Loss rate: 0.53%

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



Run 2: Statistics of TCP Cubic

Start at: 2018-02-20 01:14:47

End at: 2018-02-20 01:15:18

# Below is generated by plot.py at 2018-02-20 06:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 233.18 Mbit/s

95th percentile per-packet one-way delay: 56.788 ms

Loss rate: 0.36%

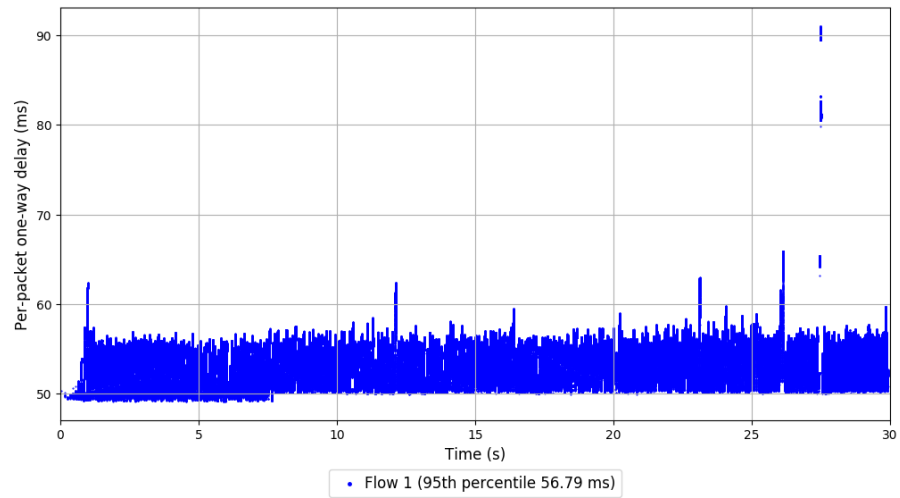
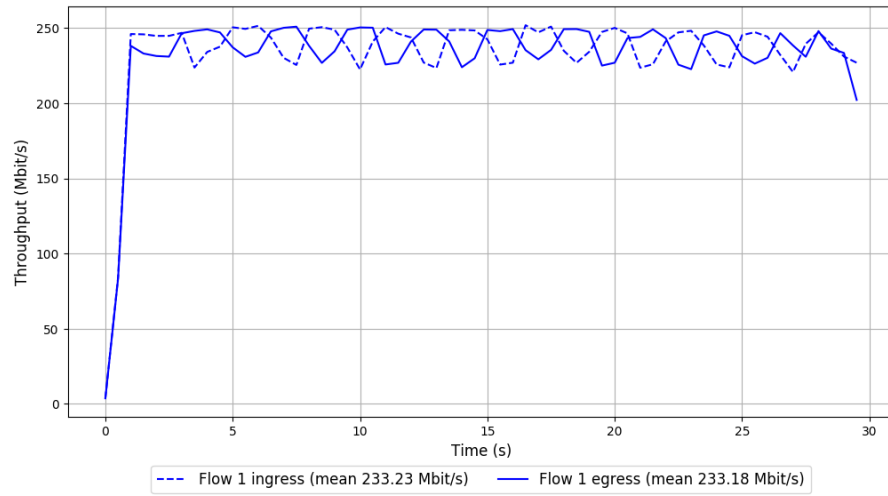
-- Flow 1:

Average throughput: 233.18 Mbit/s

95th percentile per-packet one-way delay: 56.788 ms

Loss rate: 0.36%

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



Run 3: Statistics of TCP Cubic

Start at: 2018-02-20 01:29:36

End at: 2018-02-20 01:30:06

# Below is generated by plot.py at 2018-02-20 06:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 176.34 Mbit/s

95th percentile per-packet one-way delay: 58.072 ms

Loss rate: 0.47%

-- Flow 1:

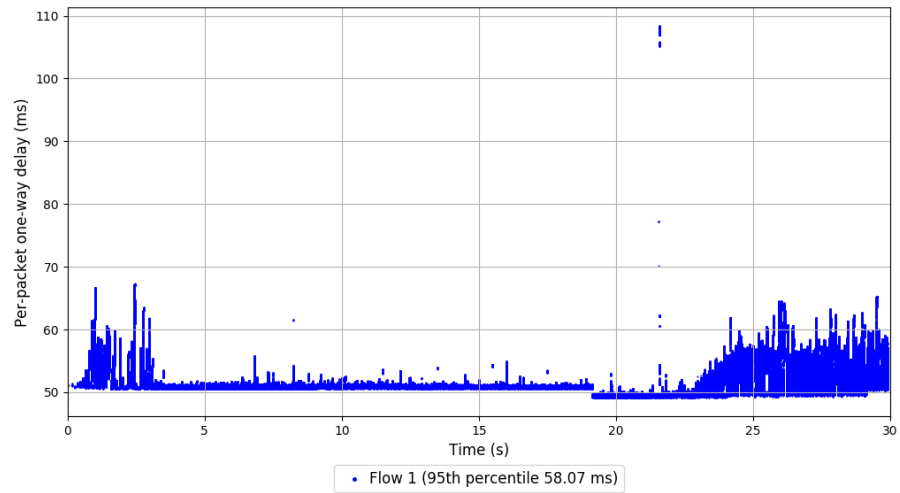
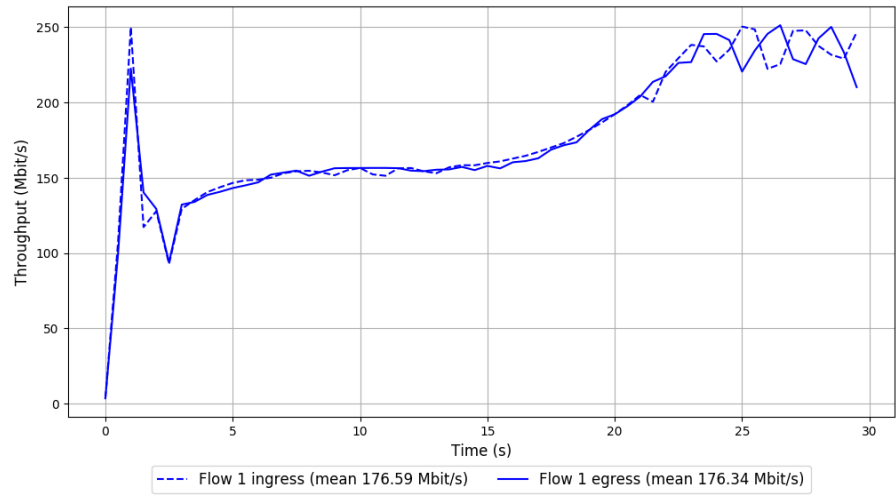
Average throughput: 176.34 Mbit/s

95th percentile per-packet one-way delay: 58.072 ms

Loss rate: 0.47%



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



Run 4: Statistics of TCP Cubic

Start at: 2018-02-20 01:44:16

End at: 2018-02-20 01:44:46

# Below is generated by plot.py at 2018-02-20 06:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 166.88 Mbit/s

95th percentile per-packet one-way delay: 57.581 ms

Loss rate: 0.50%

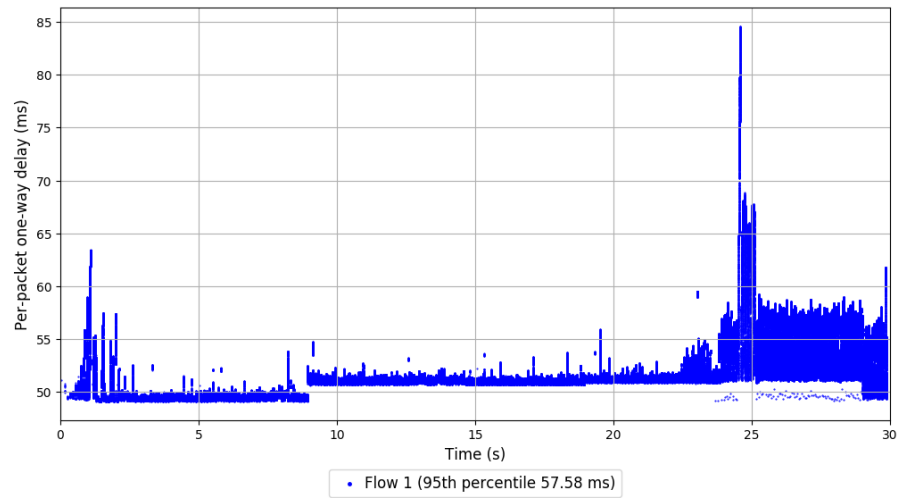
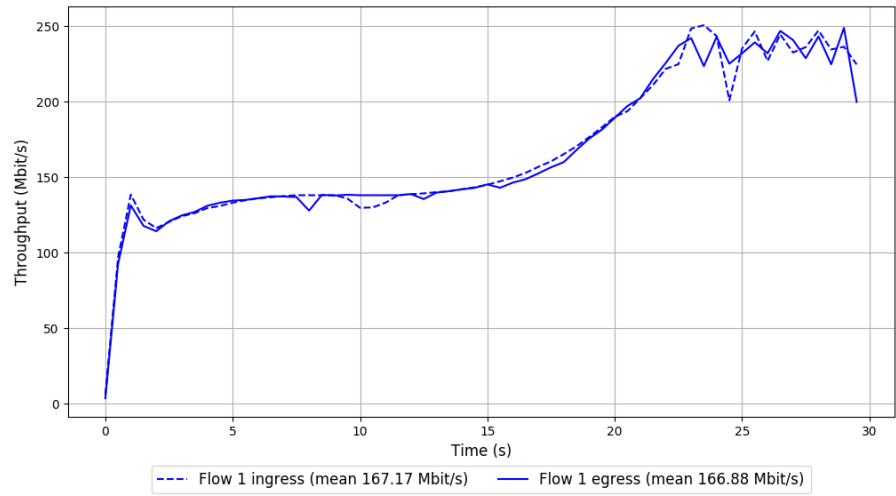
-- Flow 1:

Average throughput: 166.88 Mbit/s

95th percentile per-packet one-way delay: 57.581 ms

Loss rate: 0.50%

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



Run 5: Statistics of TCP Cubic

Start at: 2018-02-20 01:59:06

End at: 2018-02-20 01:59:36

# Below is generated by plot.py at 2018-02-20 06:04:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 232.58 Mbit/s

95th percentile per-packet one-way delay: 58.124 ms

Loss rate: 0.35%

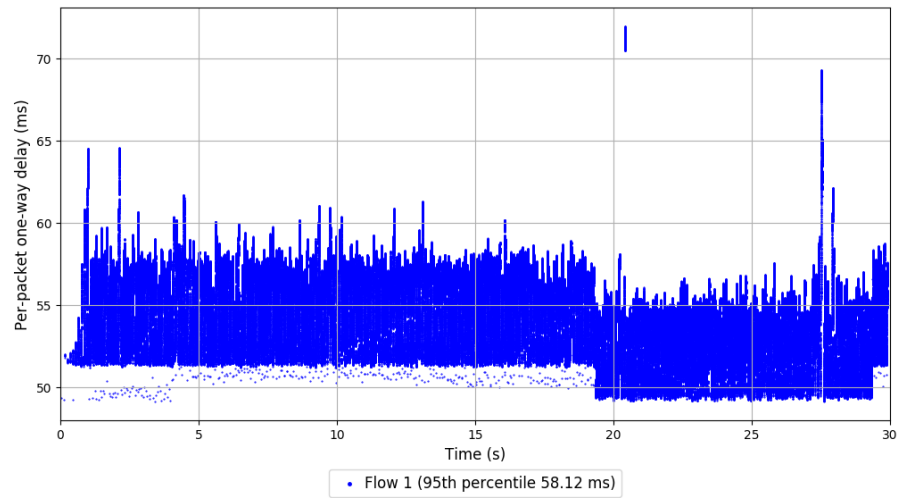
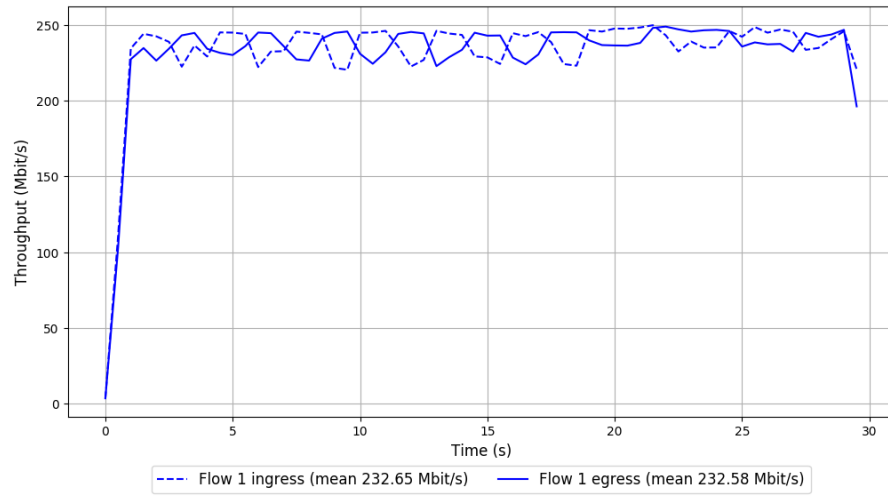
-- Flow 1:

Average throughput: 232.58 Mbit/s

95th percentile per-packet one-way delay: 58.124 ms

Loss rate: 0.35%

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



Run 6: Statistics of TCP Cubic

Start at: 2018-02-20 02:13:48

End at: 2018-02-20 02:14:18

# Below is generated by plot.py at 2018-02-20 06:04:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 232.56 Mbit/s

95th percentile per-packet one-way delay: 57.355 ms

Loss rate: 0.35%

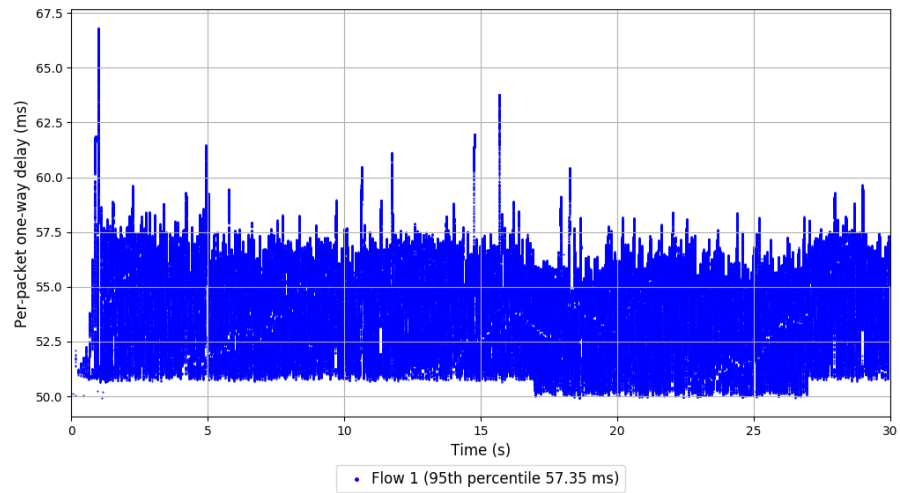
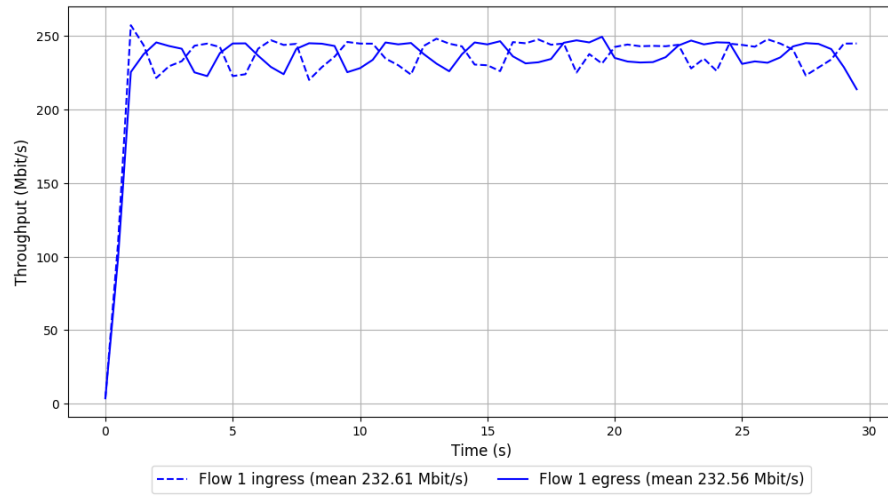
-- Flow 1:

Average throughput: 232.56 Mbit/s

95th percentile per-packet one-way delay: 57.355 ms

Loss rate: 0.35%

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



Run 7: Statistics of TCP Cubic

Start at: 2018-02-20 02:28:36

End at: 2018-02-20 02:29:06

# Below is generated by plot.py at 2018-02-20 06:06:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 154.39 Mbit/s

95th percentile per-packet one-way delay: 54.579 ms

Loss rate: 0.33%

-- Flow 1:

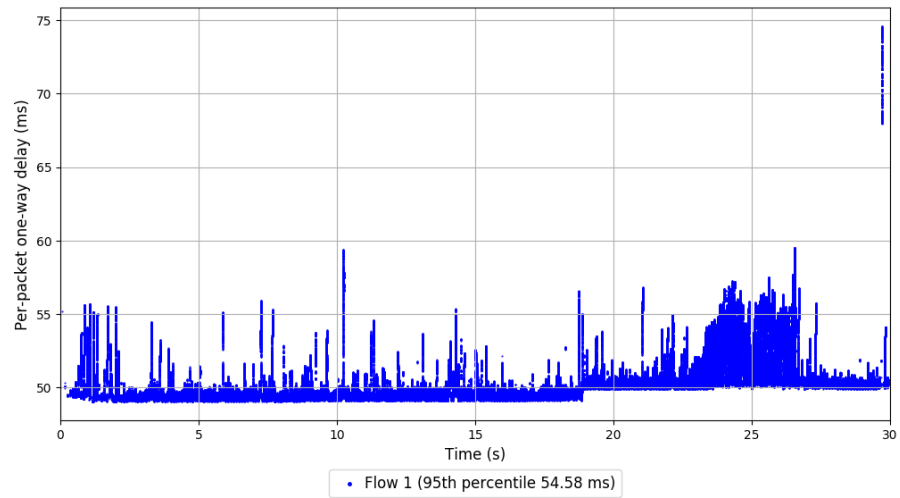
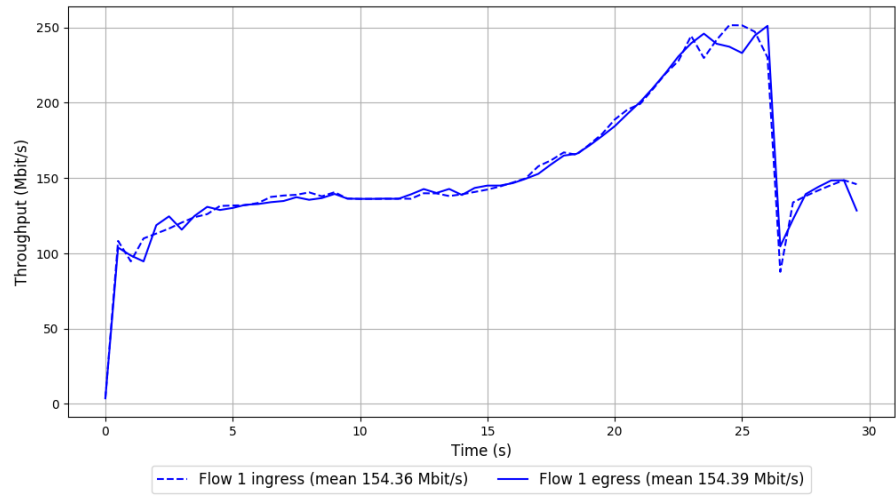
Average throughput: 154.39 Mbit/s

95th percentile per-packet one-way delay: 54.579 ms

Loss rate: 0.33%



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



Run 8: Statistics of TCP Cubic

Start at: 2018-02-20 02:43:18

End at: 2018-02-20 02:43:48

# Below is generated by plot.py at 2018-02-20 06:06:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 162.65 Mbit/s

95th percentile per-packet one-way delay: 56.797 ms

Loss rate: 0.26%

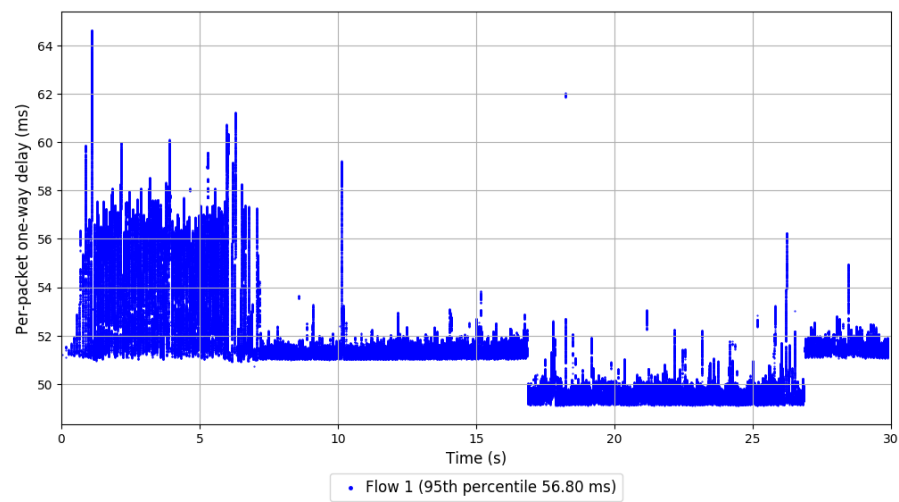
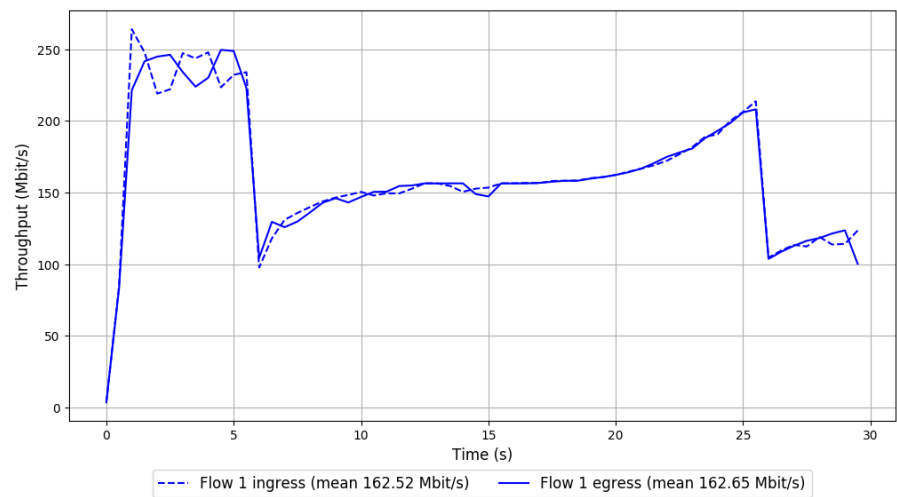
-- Flow 1:

Average throughput: 162.65 Mbit/s

95th percentile per-packet one-way delay: 56.797 ms

Loss rate: 0.26%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-20 02:58:05

End at: 2018-02-20 02:58:35

# Below is generated by plot.py at 2018-02-20 06:06:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 124.82 Mbit/s

95th percentile per-packet one-way delay: 53.405 ms

Loss rate: 0.39%

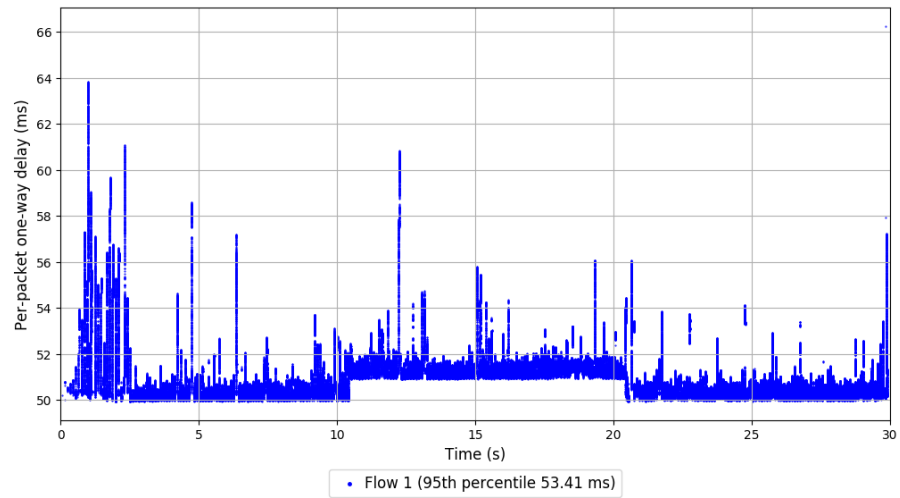
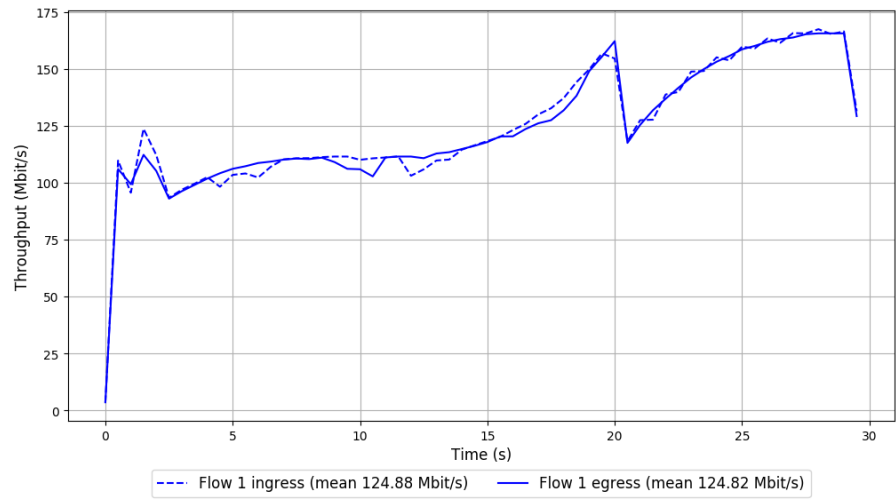
-- Flow 1:

Average throughput: 124.82 Mbit/s

95th percentile per-packet one-way delay: 53.405 ms

Loss rate: 0.39%

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



Run 10: Statistics of TCP Cubic

Start at: 2018-02-20 03:12:51

End at: 2018-02-20 03:13:21

# Below is generated by plot.py at 2018-02-20 06:06:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 151.59 Mbit/s

95th percentile per-packet one-way delay: 57.171 ms

Loss rate: 0.55%

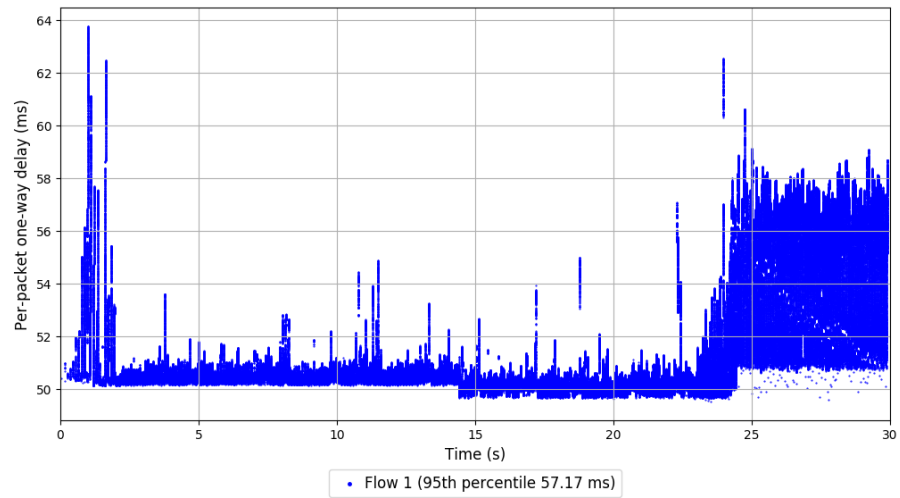
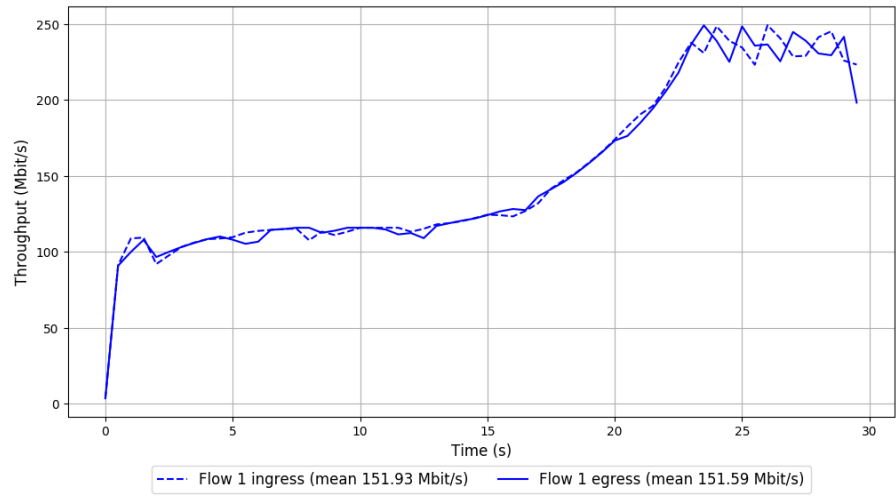
-- Flow 1:

Average throughput: 151.59 Mbit/s

95th percentile per-packet one-way delay: 57.171 ms

Loss rate: 0.55%

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



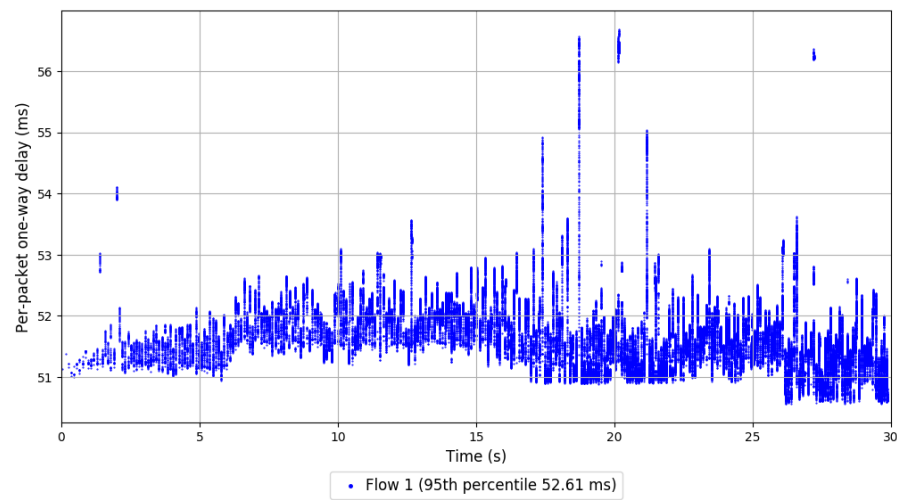
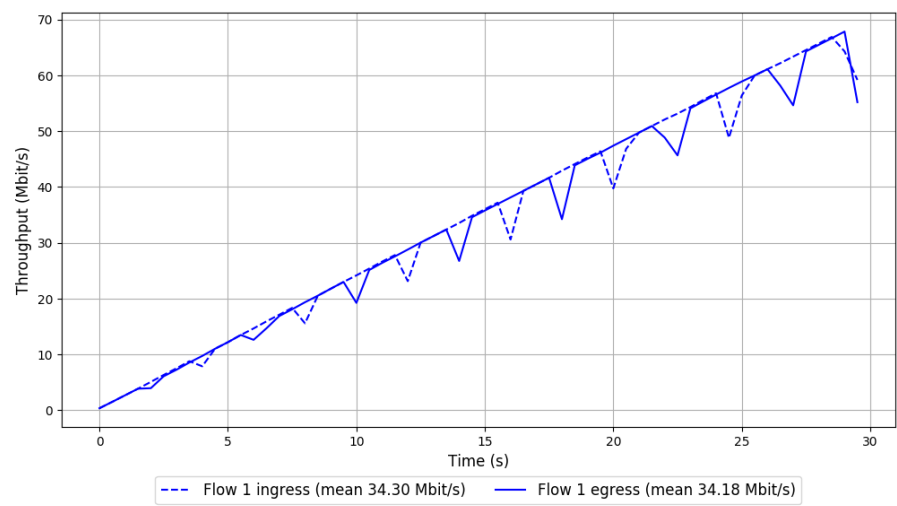
```
Run 1: Statistics of LEDBAT

Start at: 2018-02-20 00:52:29
End at: 2018-02-20 00:52:59

# Below is generated by plot.py at 2018-02-20 06:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.18 Mbit/s
95th percentile per-packet one-way delay: 52.613 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 34.18 Mbit/s
95th percentile per-packet one-way delay: 52.613 ms
Loss rate: 0.68%
```



Run 1: Report of LEDBAT — Data Link

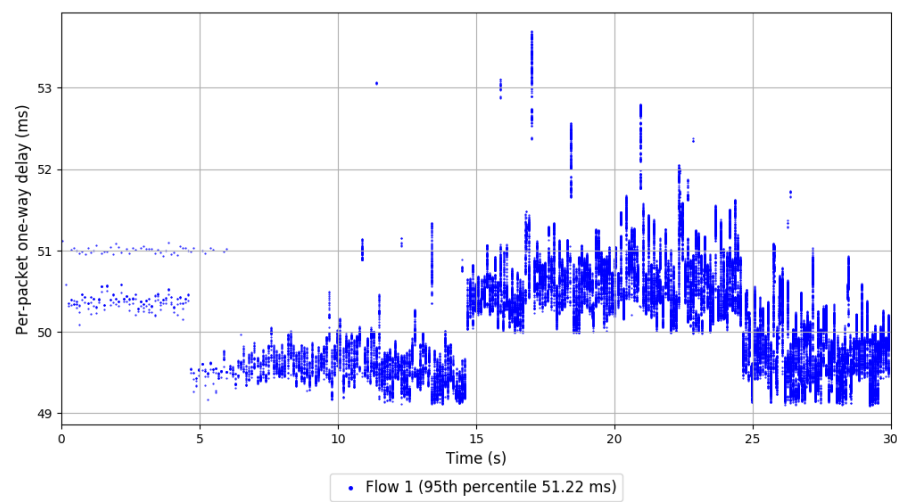
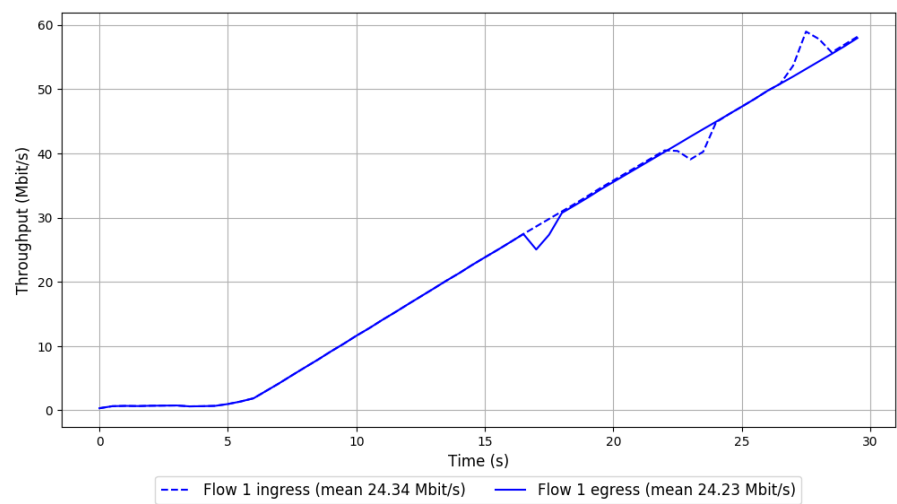


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-20 01:07:21
End at: 2018-02-20 01:07:51

# Below is generated by plot.py at 2018-02-20 06:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: 51.222 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: 51.222 ms
Loss rate: 0.80%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-20 01:22:20

End at: 2018-02-20 01:22:50

# Below is generated by plot.py at 2018-02-20 06:06:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 34.68 Mbit/s

95th percentile per-packet one-way delay: 52.386 ms

Loss rate: 0.67%

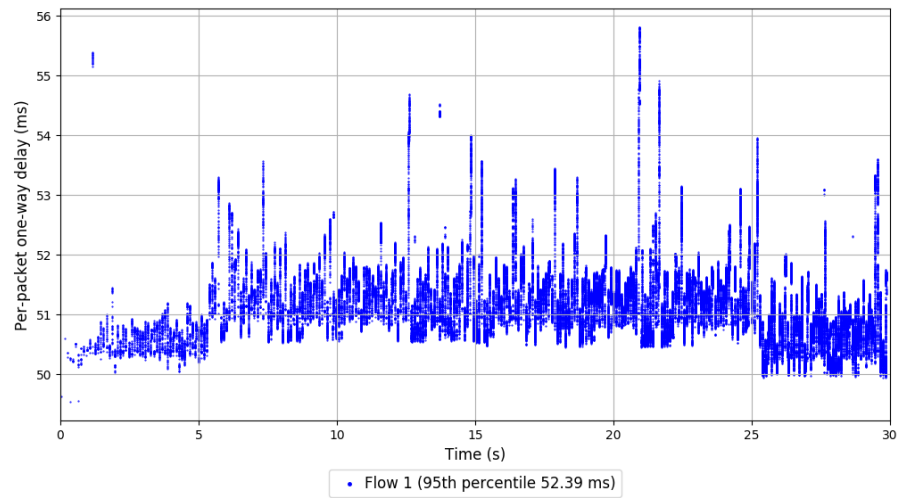
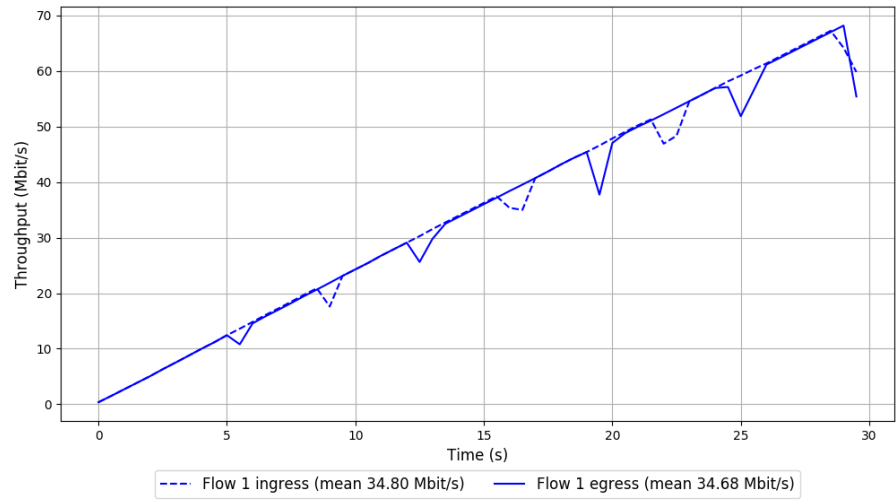
-- Flow 1:

Average throughput: 34.68 Mbit/s

95th percentile per-packet one-way delay: 52.386 ms

Loss rate: 0.67%

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



Run 4: Statistics of LEDBAT

Start at: 2018-02-20 01:37:03

End at: 2018-02-20 01:37:33

# Below is generated by plot.py at 2018-02-20 06:06:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.56 Mbit/s

95th percentile per-packet one-way delay: 51.869 ms

Loss rate: 0.66%

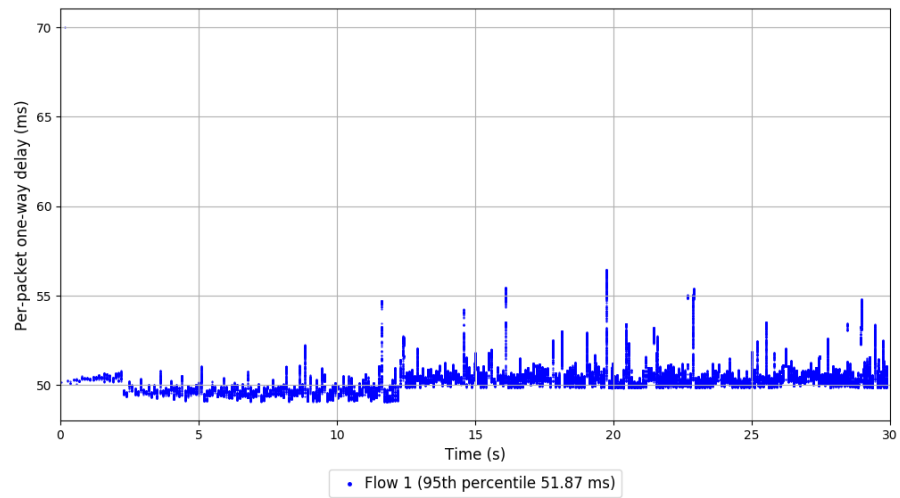
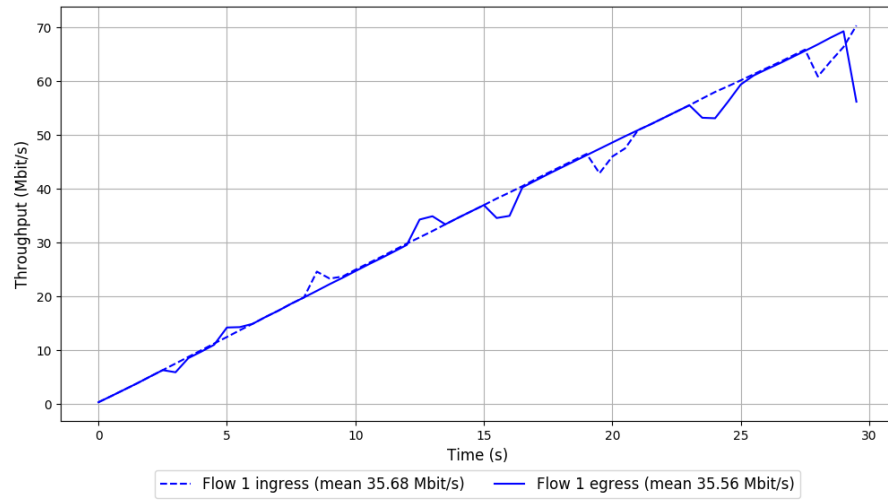
-- Flow 1:

Average throughput: 35.56 Mbit/s

95th percentile per-packet one-way delay: 51.869 ms

Loss rate: 0.66%

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



Run 5: Statistics of LEDBAT

Start at: 2018-02-20 01:51:46

End at: 2018-02-20 01:52:16

# Below is generated by plot.py at 2018-02-20 06:06:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.11 Mbit/s

95th percentile per-packet one-way delay: 52.296 ms

Loss rate: 0.67%

-- Flow 1:

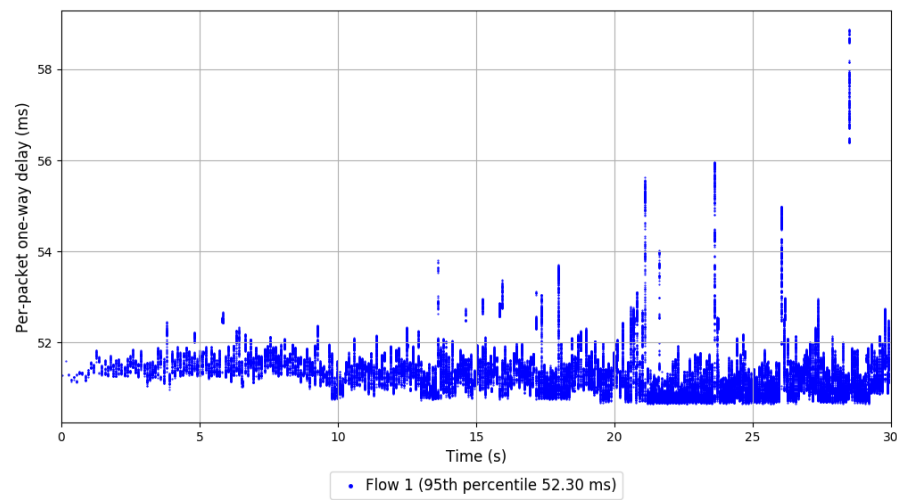
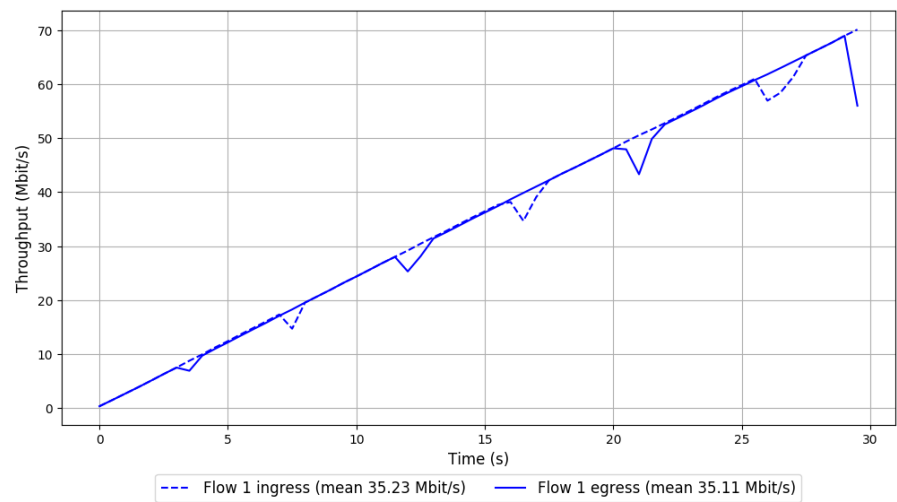
Average throughput: 35.11 Mbit/s

95th percentile per-packet one-way delay: 52.296 ms

Loss rate: 0.67%



Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-20 02:06:35

End at: 2018-02-20 02:07:05

# Below is generated by plot.py at 2018-02-20 06:06:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 51.417 ms

Loss rate: 0.66%

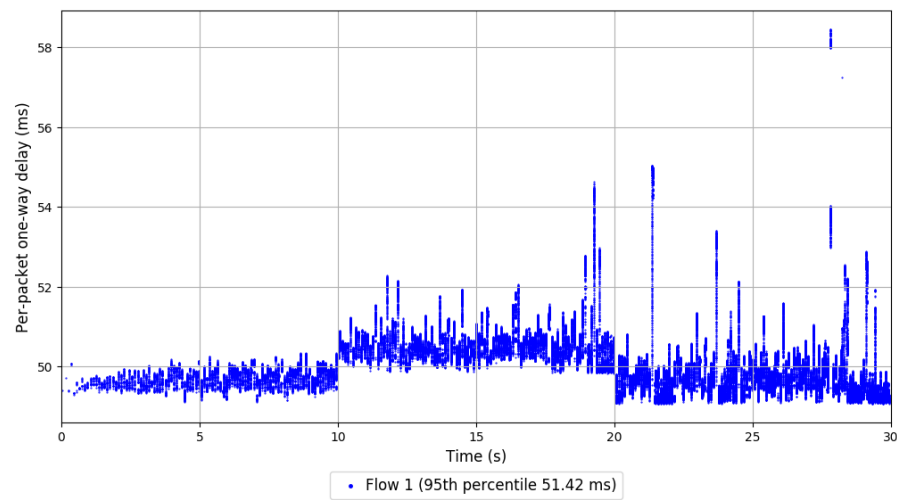
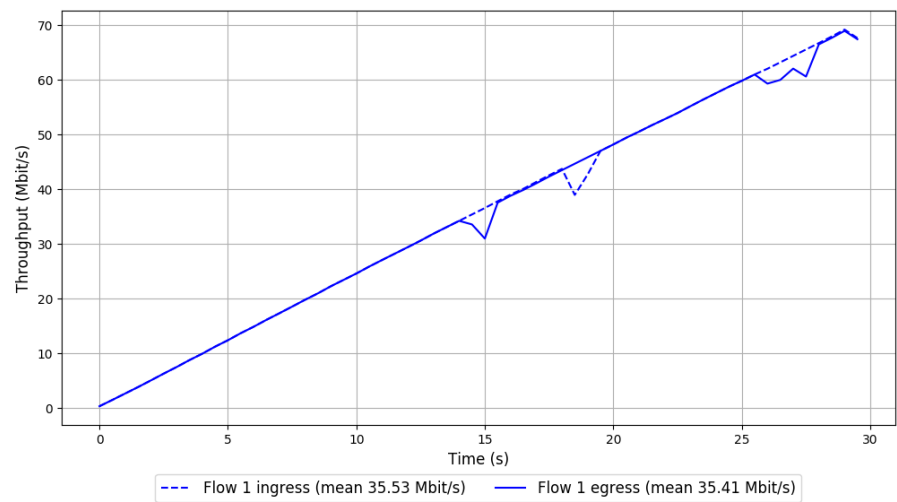
-- Flow 1:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 51.417 ms

Loss rate: 0.66%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-20 02:21:17

End at: 2018-02-20 02:21:47

# Below is generated by plot.py at 2018-02-20 06:06:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.61 Mbit/s

95th percentile per-packet one-way delay: 51.759 ms

Loss rate: 0.66%

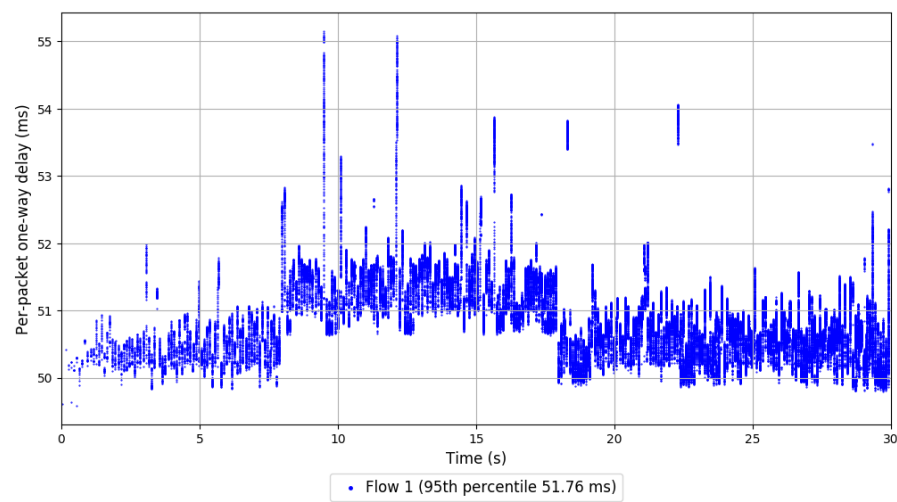
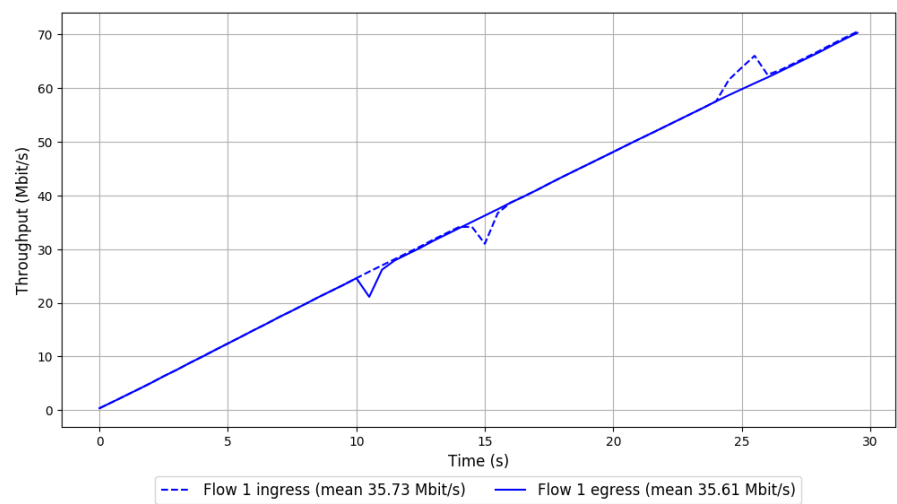
-- Flow 1:

Average throughput: 35.61 Mbit/s

95th percentile per-packet one-way delay: 51.759 ms

Loss rate: 0.66%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

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

End at: 2018-02-20 02:36:29

# Below is generated by plot.py at 2018-02-20 06:06:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 33.86 Mbit/s

95th percentile per-packet one-way delay: 52.247 ms

Loss rate: 0.68%

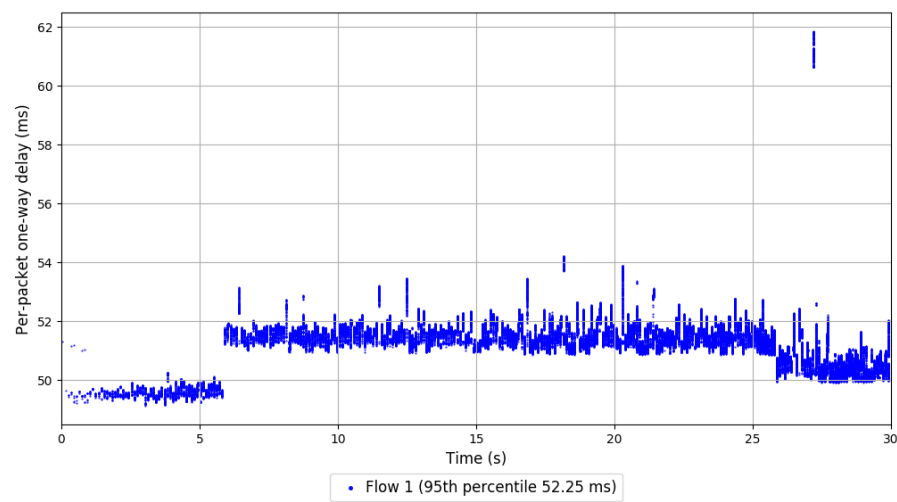
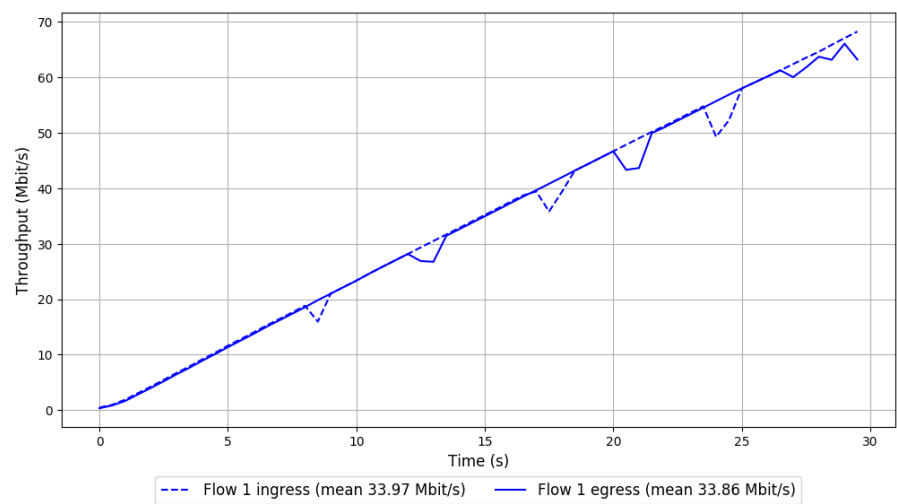
-- Flow 1:

Average throughput: 33.86 Mbit/s

95th percentile per-packet one-way delay: 52.247 ms

Loss rate: 0.68%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-20 02:50:41

End at: 2018-02-20 02:51:11

# Below is generated by plot.py at 2018-02-20 06:06:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 34.36 Mbit/s

95th percentile per-packet one-way delay: 52.892 ms

Loss rate: 0.67%

-- Flow 1:

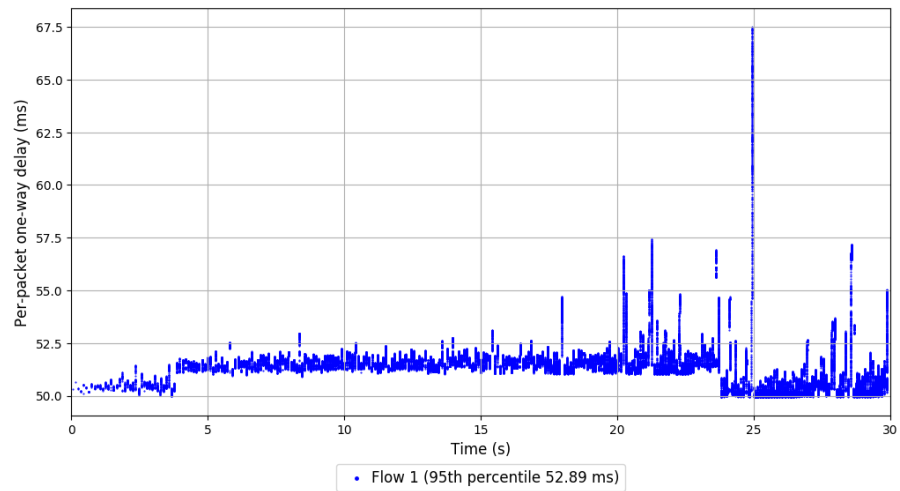
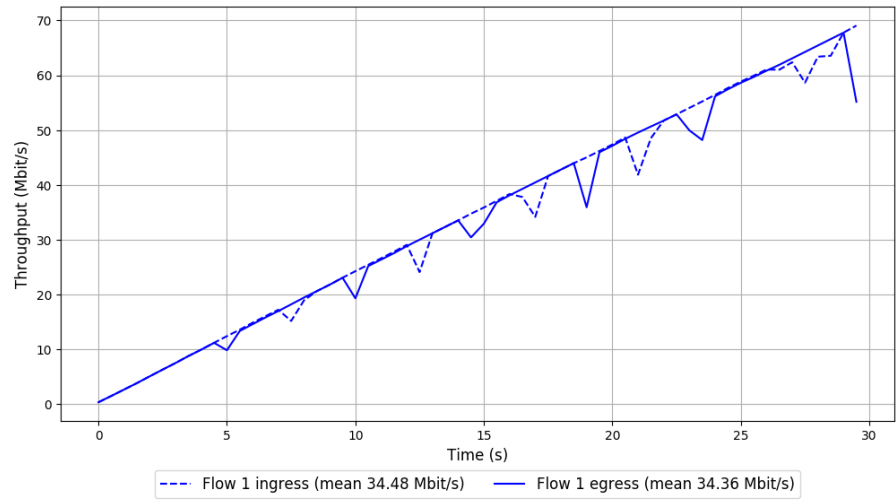
Average throughput: 34.36 Mbit/s

95th percentile per-packet one-way delay: 52.892 ms

Loss rate: 0.67%



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



Run 10: Statistics of LEDBAT

Start at: 2018-02-20 03:05:27

End at: 2018-02-20 03:05:57

# Below is generated by plot.py at 2018-02-20 06:06:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 34.36 Mbit/s

95th percentile per-packet one-way delay: 52.017 ms

Loss rate: 0.67%

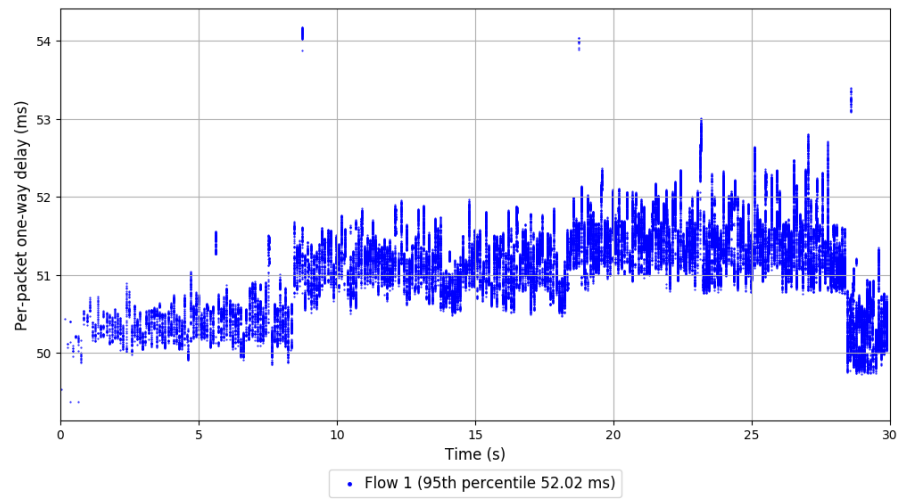
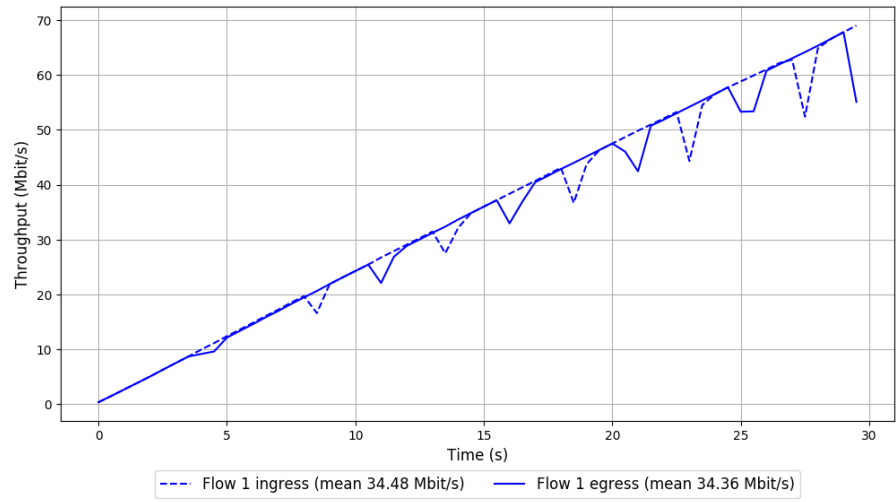
-- Flow 1:

Average throughput: 34.36 Mbit/s

95th percentile per-packet one-way delay: 52.017 ms

Loss rate: 0.67%

# Run 10: Report of LEDBAT — Data Link

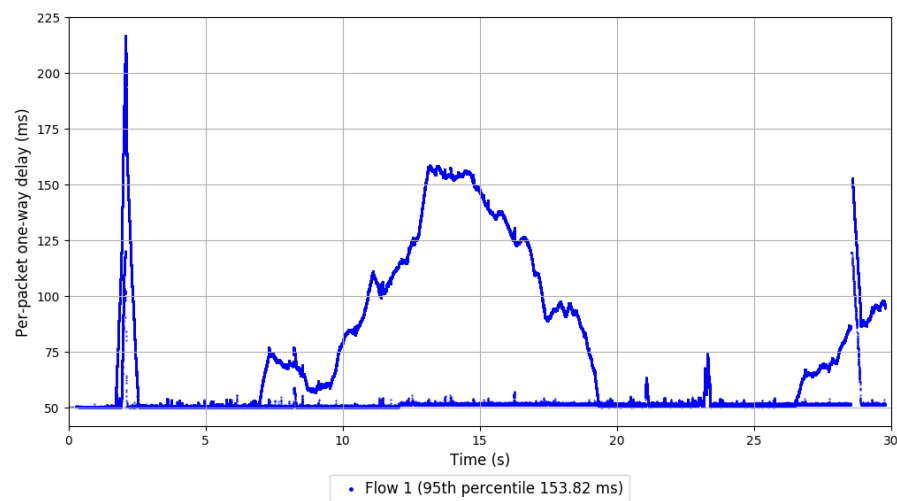
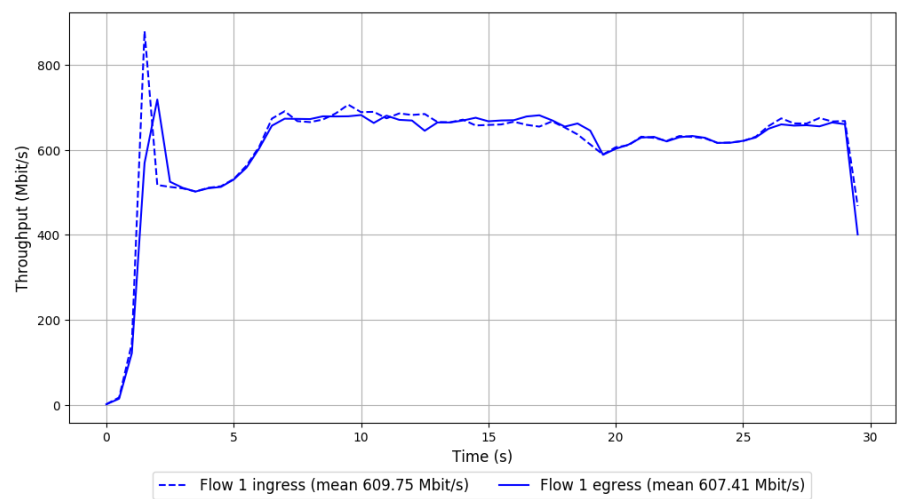


```
Run 1: Statistics of PCC

Start at: 2018-02-20 00:50:08
End at: 2018-02-20 00:50:38

# Below is generated by plot.py at 2018-02-20 06:15:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.41 Mbit/s
95th percentile per-packet one-way delay: 153.823 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 607.41 Mbit/s
95th percentile per-packet one-way delay: 153.823 ms
Loss rate: 0.72%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-20 01:04:58

End at: 2018-02-20 01:05:28

# Below is generated by plot.py at 2018-02-20 06:15:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 589.83 Mbit/s

95th percentile per-packet one-way delay: 78.667 ms

Loss rate: 0.56%

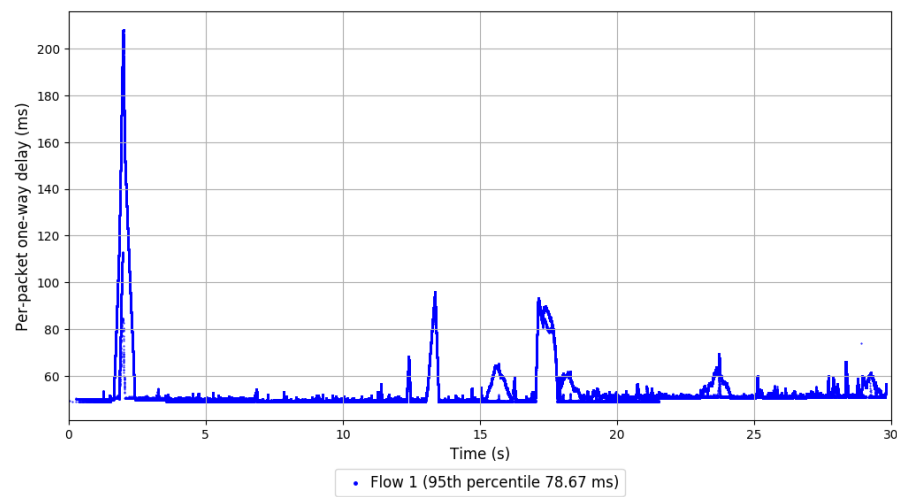
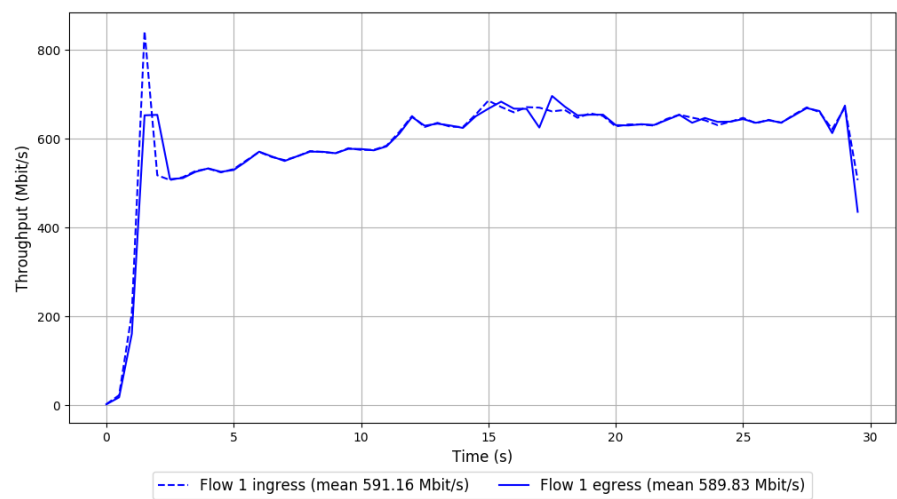
-- Flow 1:

Average throughput: 589.83 Mbit/s

95th percentile per-packet one-way delay: 78.667 ms

Loss rate: 0.56%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-20 01:19:56

End at: 2018-02-20 01:20:26

# Below is generated by plot.py at 2018-02-20 06:16:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 604.11 Mbit/s

95th percentile per-packet one-way delay: 58.369 ms

Loss rate: 0.56%

-- Flow 1:

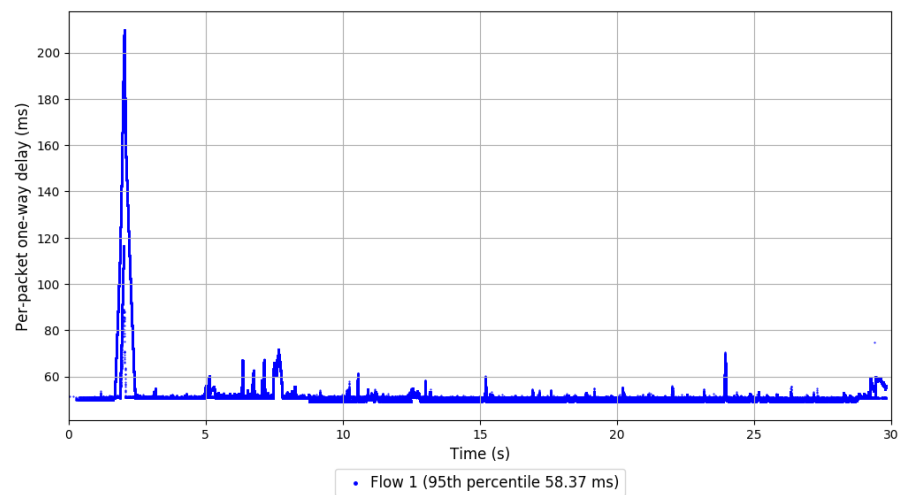
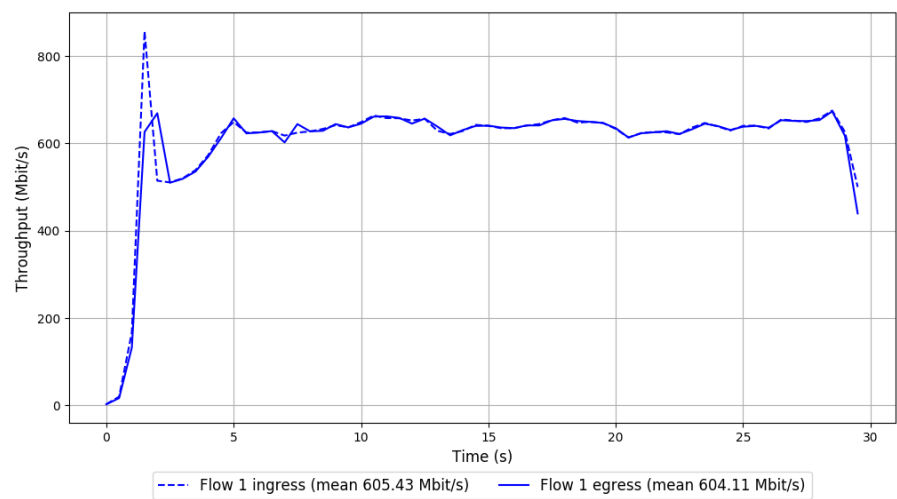
Average throughput: 604.11 Mbit/s

95th percentile per-packet one-way delay: 58.369 ms

Loss rate: 0.56%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-20 01:34:40

End at: 2018-02-20 01:35:10

# Below is generated by plot.py at 2018-02-20 06:16:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 622.22 Mbit/s

95th percentile per-packet one-way delay: 132.509 ms

Loss rate: 0.54%

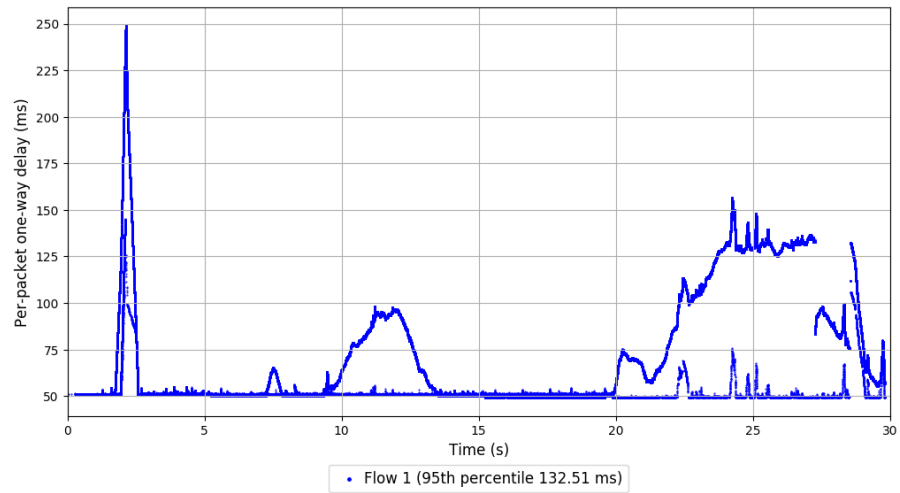
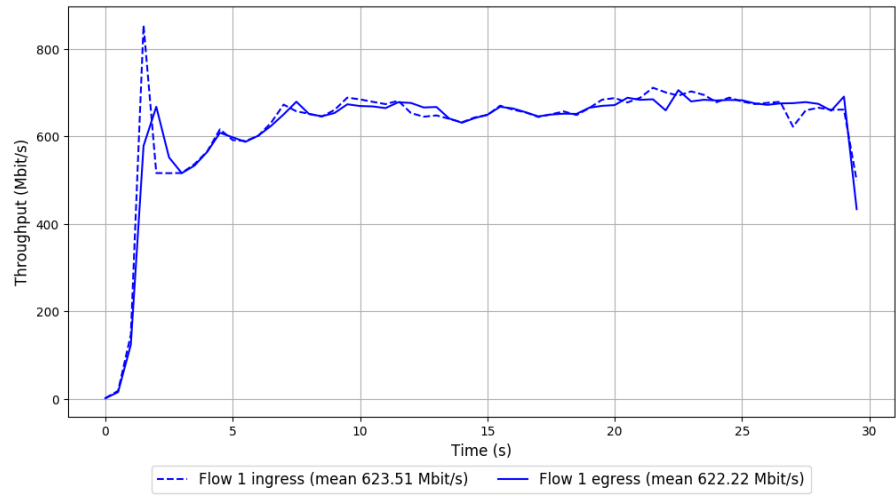
-- Flow 1:

Average throughput: 622.22 Mbit/s

95th percentile per-packet one-way delay: 132.509 ms

Loss rate: 0.54%

#### Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-20 01:49:24

End at: 2018-02-20 01:49:54

# Below is generated by plot.py at 2018-02-20 06:16:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 577.79 Mbit/s

95th percentile per-packet one-way delay: 168.184 ms

Loss rate: 1.48%

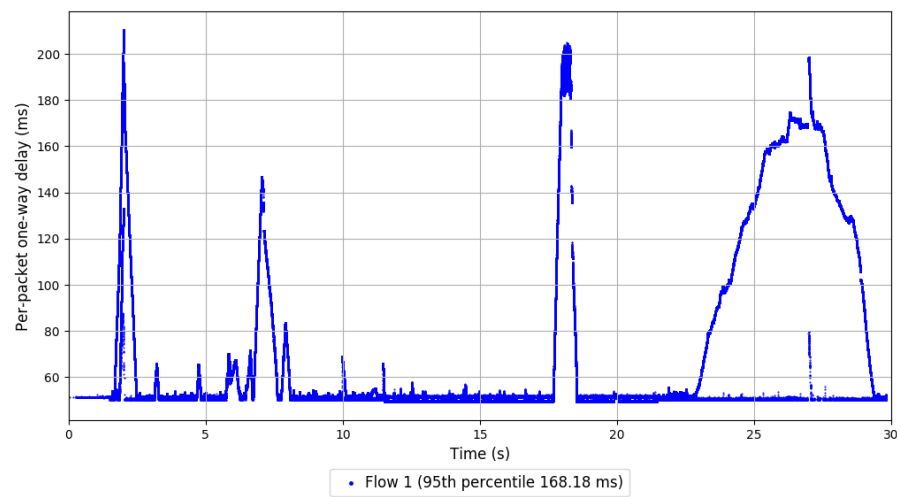
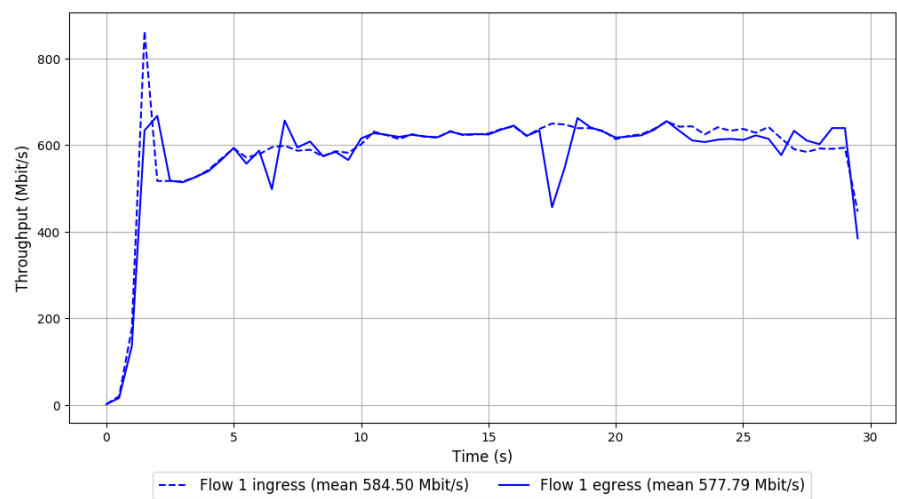
-- Flow 1:

Average throughput: 577.79 Mbit/s

95th percentile per-packet one-way delay: 168.184 ms

Loss rate: 1.48%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-20 02:04:13

End at: 2018-02-20 02:04:43

# Below is generated by plot.py at 2018-02-20 06:16:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 583.64 Mbit/s

95th percentile per-packet one-way delay: 93.377 ms

Loss rate: 0.48%

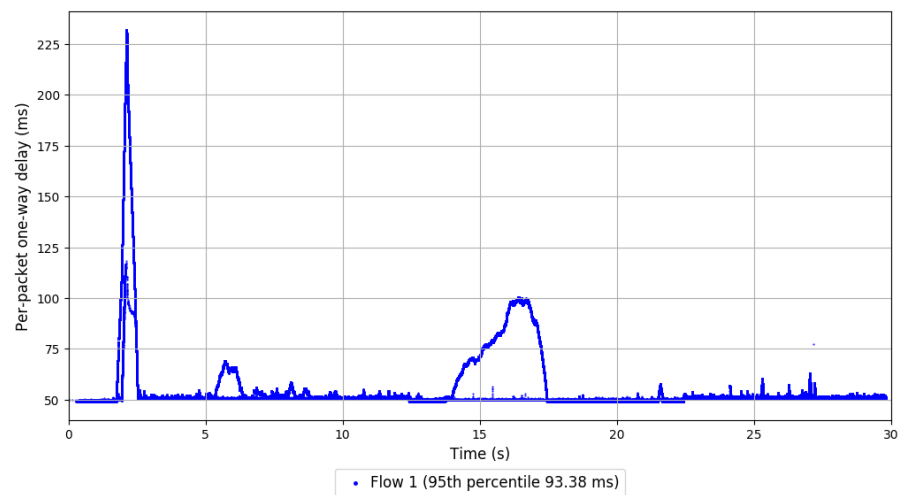
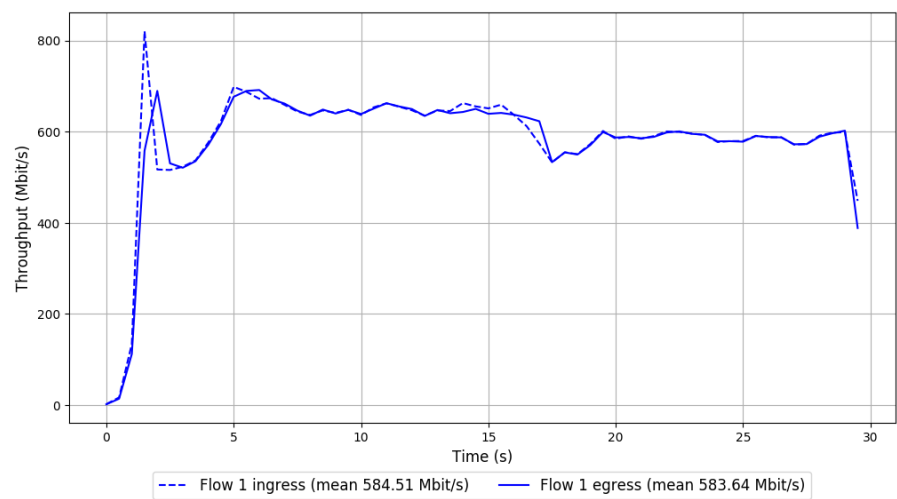
-- Flow 1:

Average throughput: 583.64 Mbit/s

95th percentile per-packet one-way delay: 93.377 ms

Loss rate: 0.48%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-20 02:18:53

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

# Below is generated by plot.py at 2018-02-20 06:16:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 621.26 Mbit/s

95th percentile per-packet one-way delay: 72.787 ms

Loss rate: 0.52%

-- Flow 1:

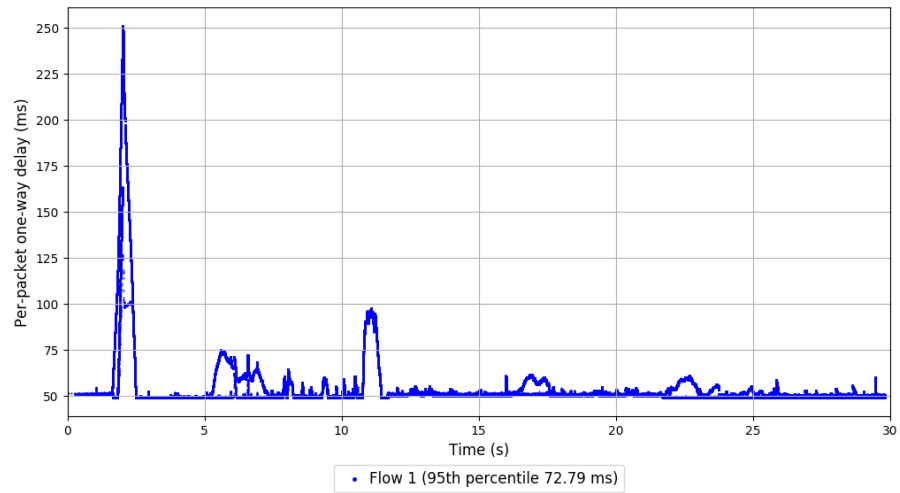
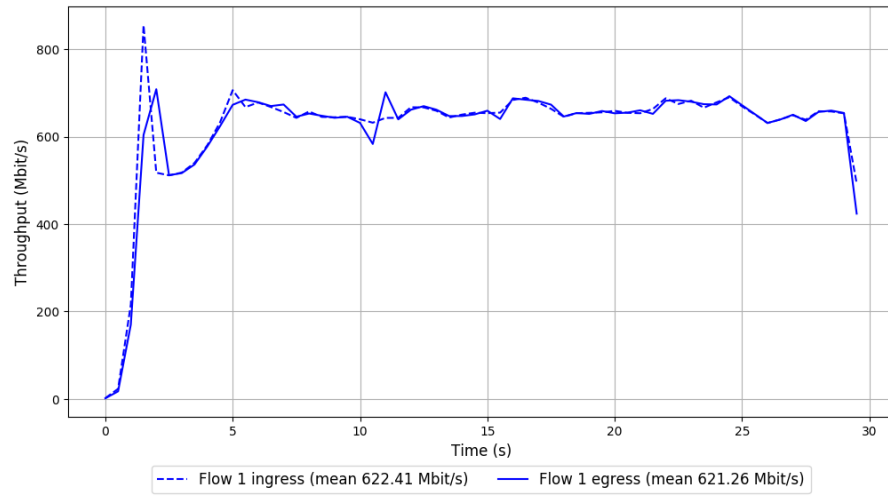
Average throughput: 621.26 Mbit/s

95th percentile per-packet one-way delay: 72.787 ms

Loss rate: 0.52%



## Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-20 02:33:38

End at: 2018-02-20 02:34:08

# Below is generated by plot.py at 2018-02-20 06:17:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 601.47 Mbit/s

95th percentile per-packet one-way delay: 71.204 ms

Loss rate: 0.38%

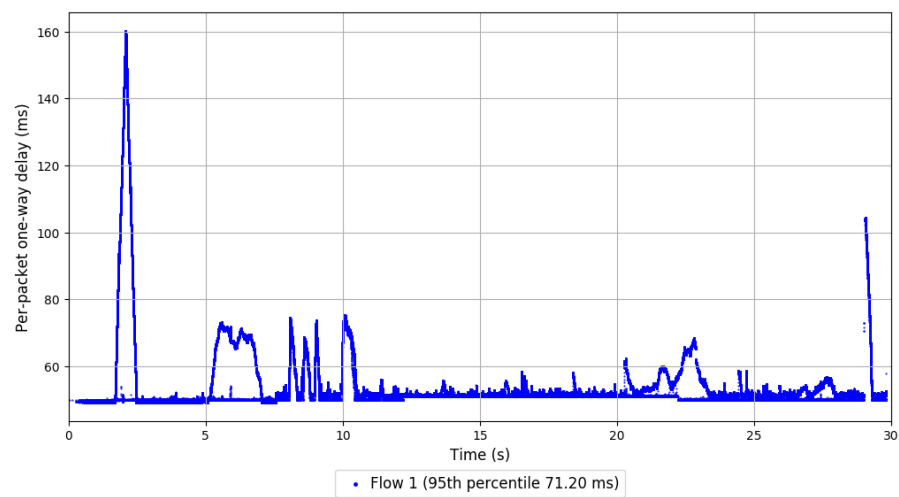
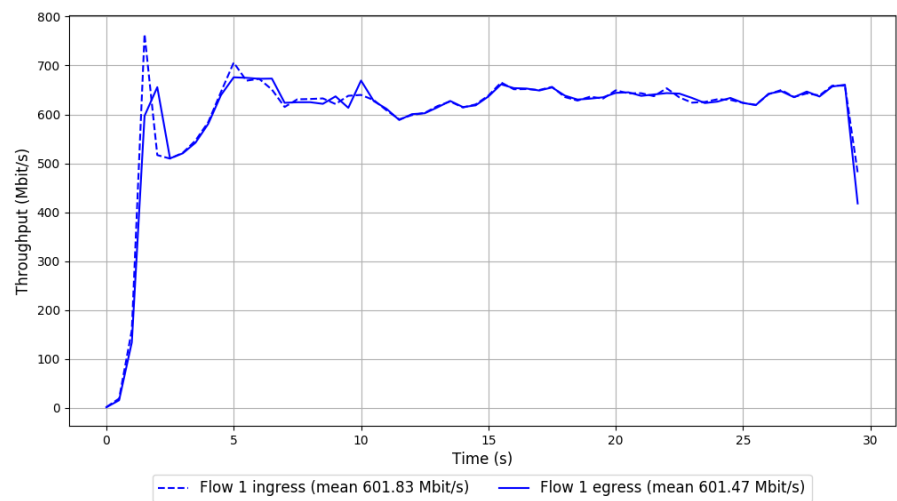
-- Flow 1:

Average throughput: 601.47 Mbit/s

95th percentile per-packet one-way delay: 71.204 ms

Loss rate: 0.38%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-20 02:48:18

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

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 592.47 Mbit/s

95th percentile per-packet one-way delay: 113.531 ms

Loss rate: 0.66%

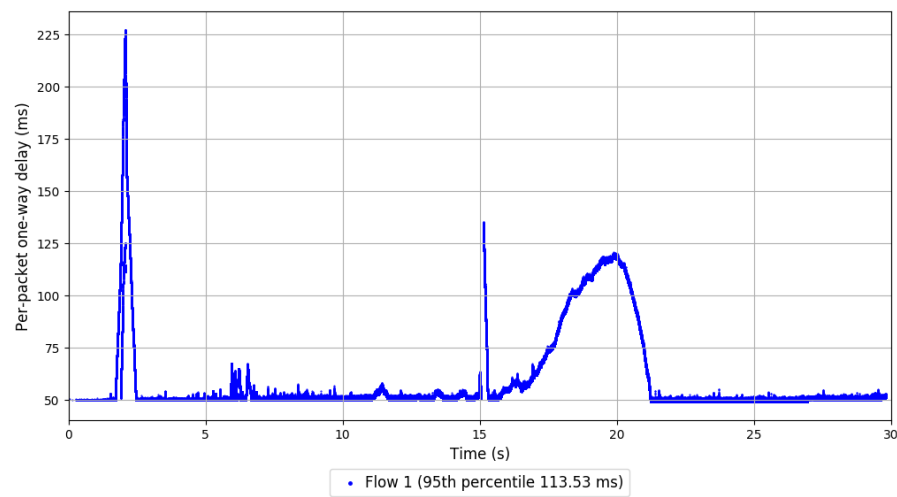
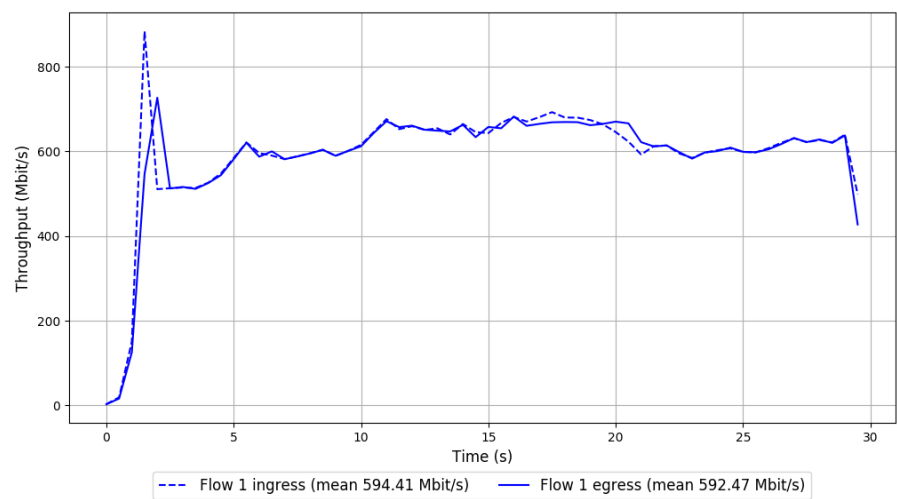
-- Flow 1:

Average throughput: 592.47 Mbit/s

95th percentile per-packet one-way delay: 113.531 ms

Loss rate: 0.66%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-20 03:03:05

End at: 2018-02-20 03:03:35

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 590.73 Mbit/s

95th percentile per-packet one-way delay: 83.087 ms

Loss rate: 0.52%

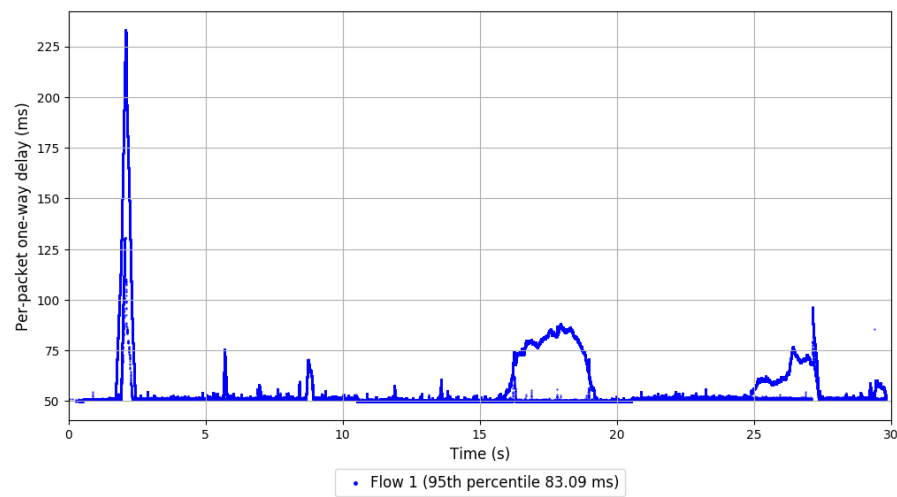
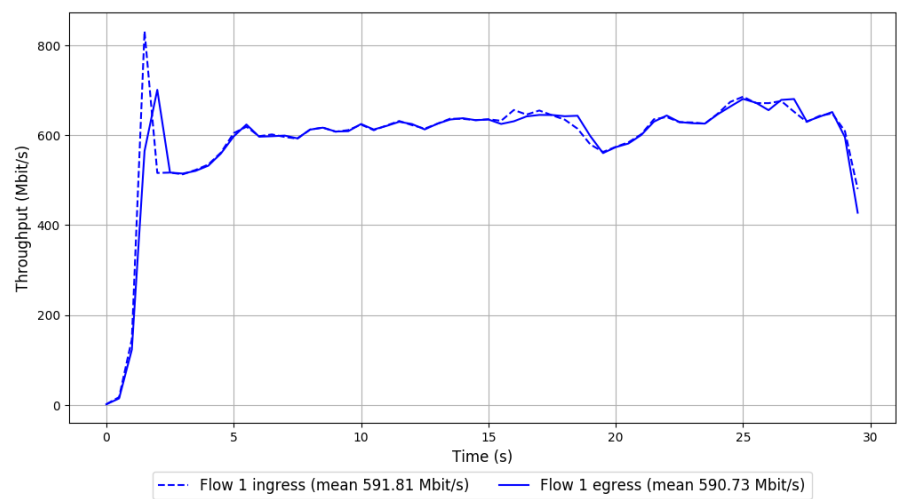
-- Flow 1:

Average throughput: 590.73 Mbit/s

95th percentile per-packet one-way delay: 83.087 ms

Loss rate: 0.52%

Run 10: Report of PCC — Data Link



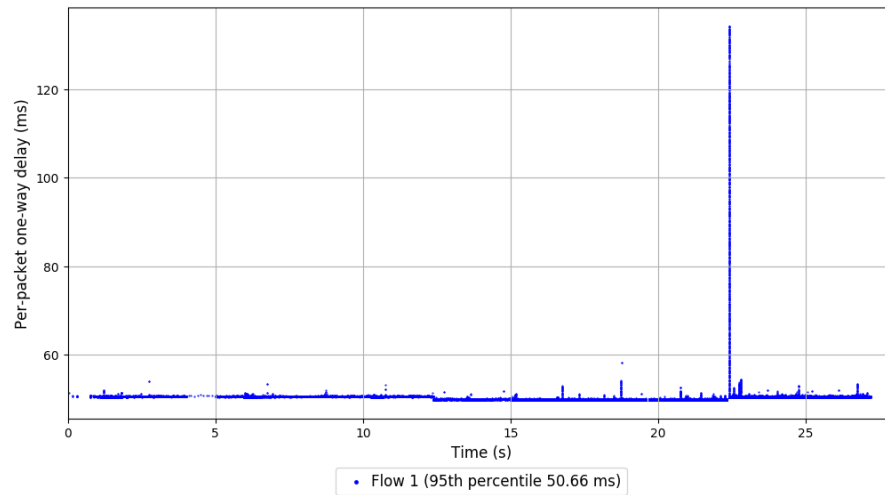
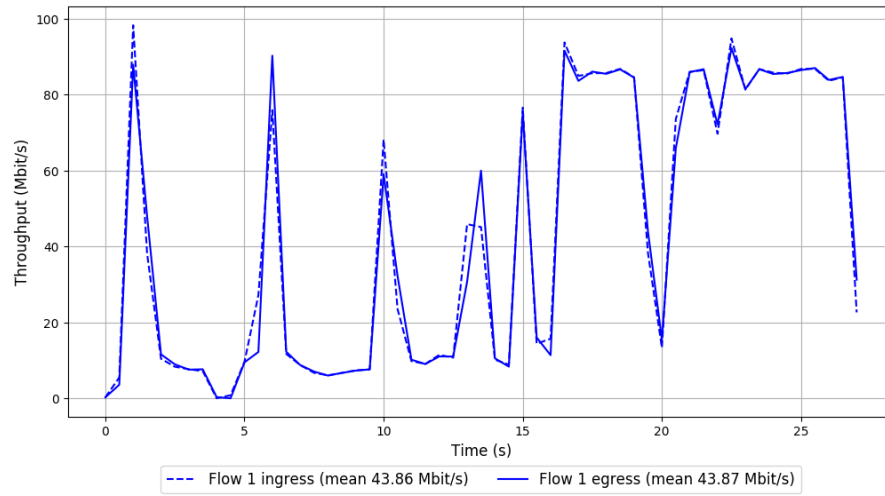
```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-20 00:51:50
End at: 2018-02-20 00:52:20

# Below is generated by plot.py at 2018-02-20 06:26:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.87 Mbit/s
95th percentile per-packet one-way delay: 50.665 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.87 Mbit/s
95th percentile per-packet one-way delay: 50.665 ms
Loss rate: 0.00%
```



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



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-20 01:06:41

End at: 2018-02-20 01:07:11

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.38 Mbit/s

95th percentile per-packet one-way delay: 50.030 ms

Loss rate: 0.51%

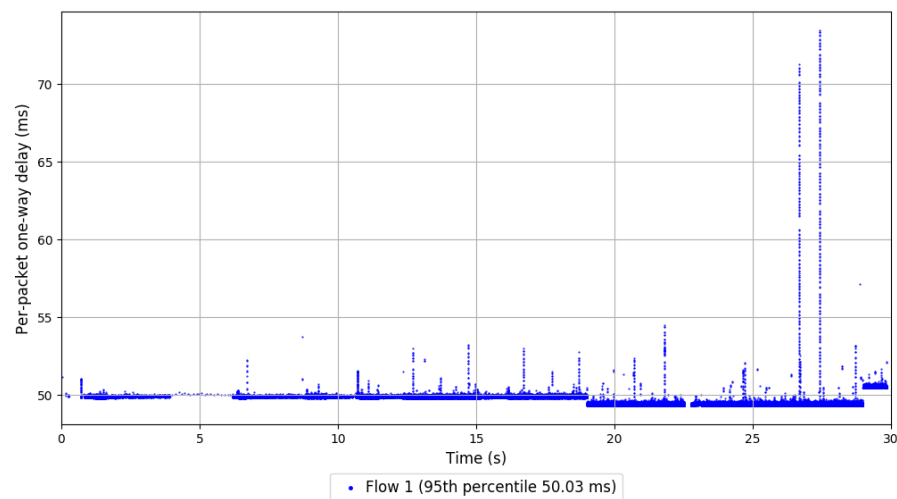
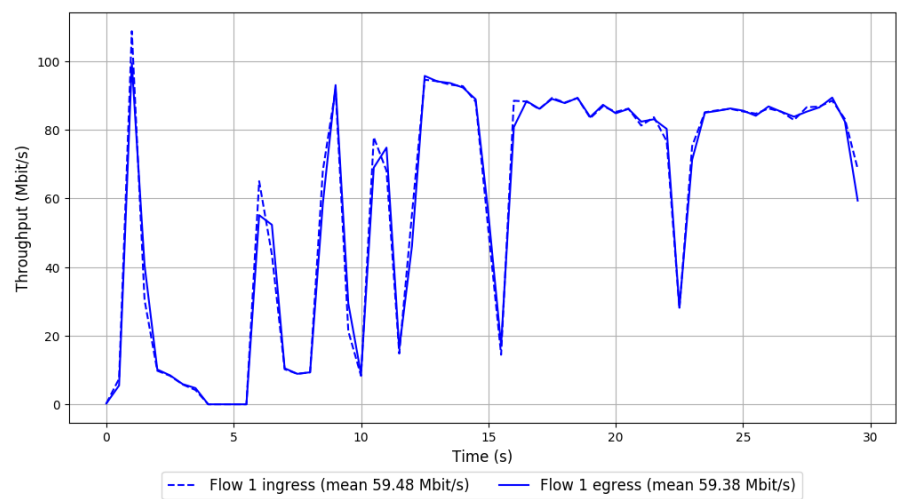
-- Flow 1:

Average throughput: 59.38 Mbit/s

95th percentile per-packet one-way delay: 50.030 ms

Loss rate: 0.51%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-20 01:21:41

End at: 2018-02-20 01:22:11

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.43 Mbit/s

95th percentile per-packet one-way delay: 50.301 ms

Loss rate: 0.47%

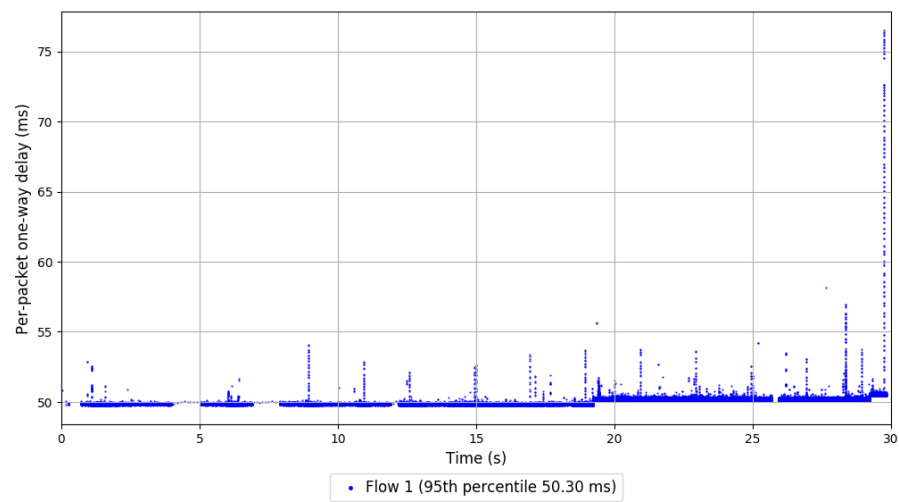
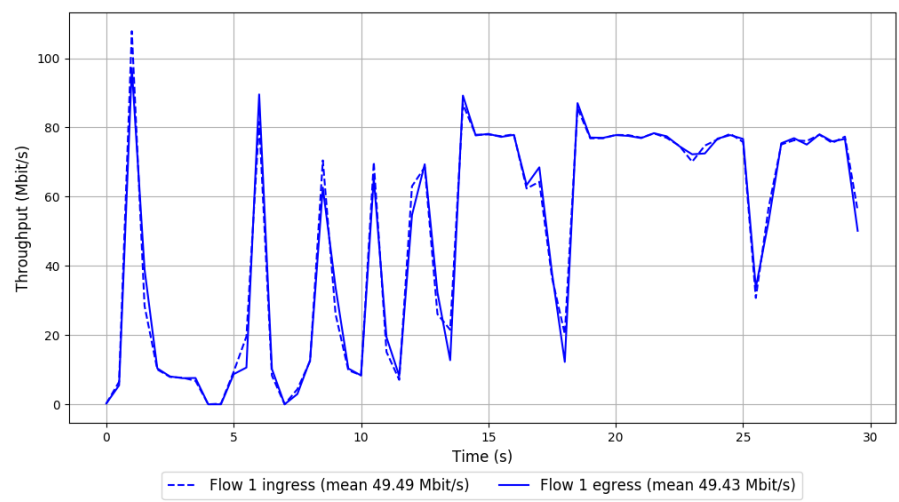
-- Flow 1:

Average throughput: 49.43 Mbit/s

95th percentile per-packet one-way delay: 50.301 ms

Loss rate: 0.47%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-20 01:36:24

End at: 2018-02-20 01:36:54

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 51.23 Mbit/s

95th percentile per-packet one-way delay: 50.847 ms

Loss rate: 0.48%

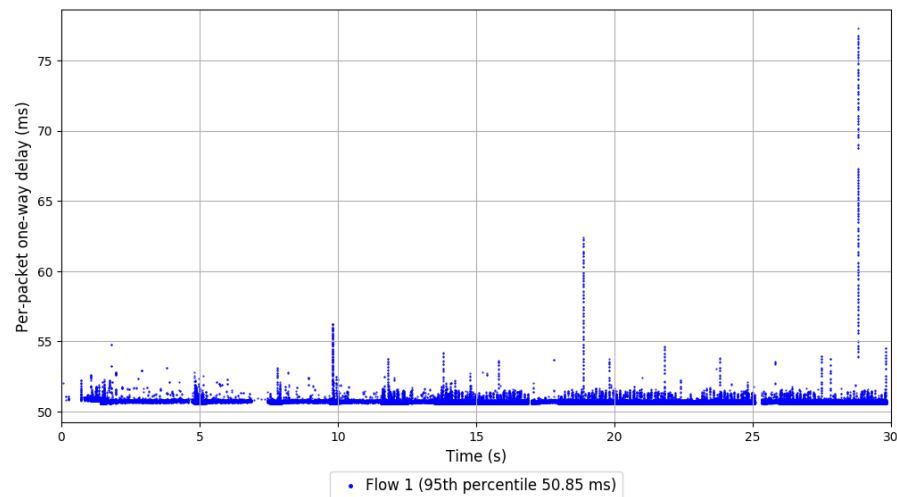
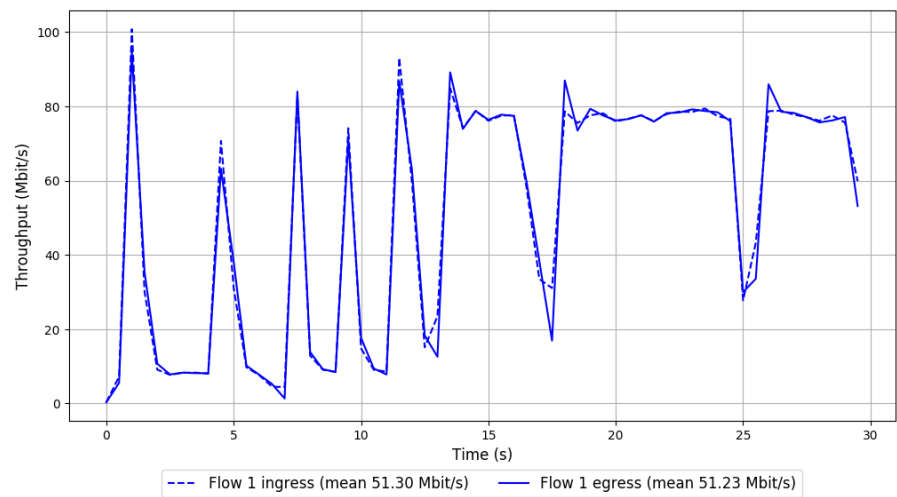
-- Flow 1:

Average throughput: 51.23 Mbit/s

95th percentile per-packet one-way delay: 50.847 ms

Loss rate: 0.48%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-20 01:51:06

End at: 2018-02-20 01:51:36

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 55.73 Mbit/s

95th percentile per-packet one-way delay: 51.151 ms

Loss rate: 0.49%

-- Flow 1:

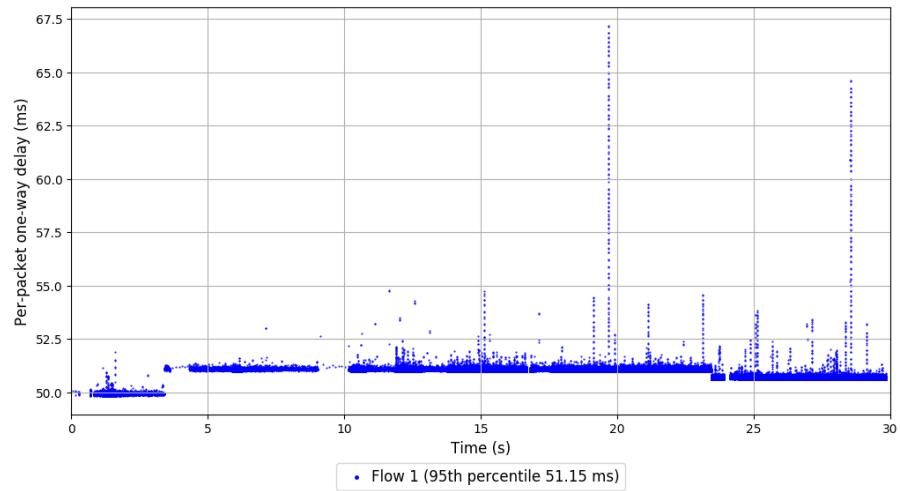
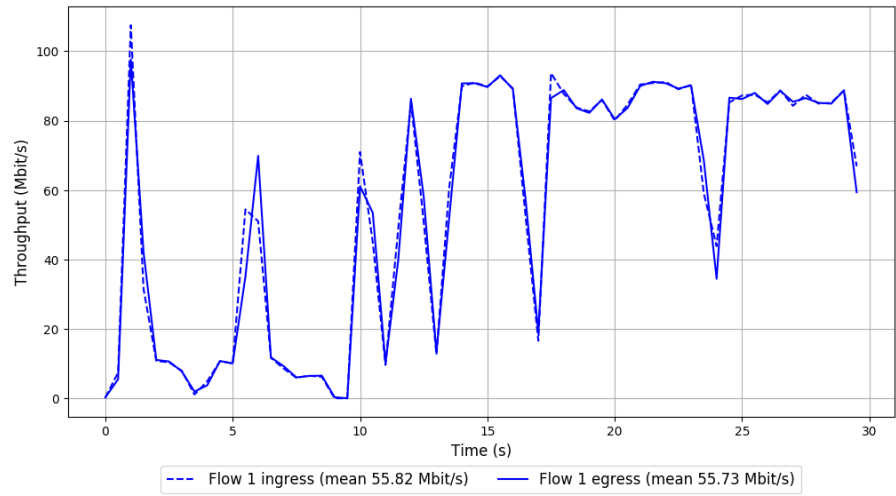
Average throughput: 55.73 Mbit/s

95th percentile per-packet one-way delay: 51.151 ms

Loss rate: 0.49%



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



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-20 02:05:56

End at: 2018-02-20 02:06:26

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.45 Mbit/s

95th percentile per-packet one-way delay: 50.910 ms

Loss rate: 0.61%

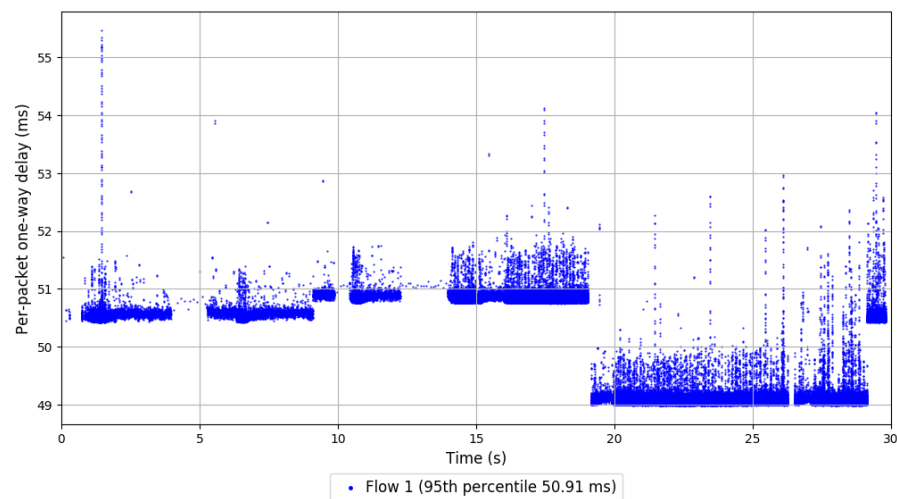
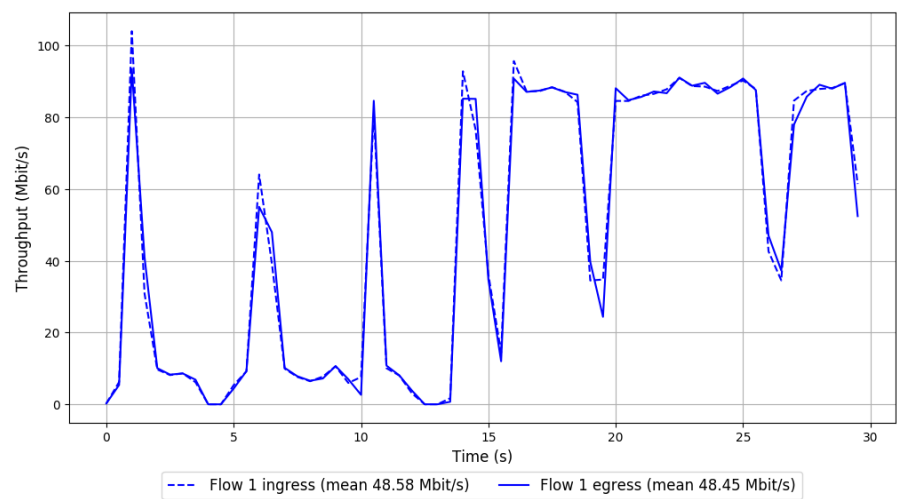
-- Flow 1:

Average throughput: 48.45 Mbit/s

95th percentile per-packet one-way delay: 50.910 ms

Loss rate: 0.61%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

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

End at: 2018-02-20 02:21:08

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.39 Mbit/s

95th percentile per-packet one-way delay: 51.224 ms

Loss rate: 0.51%

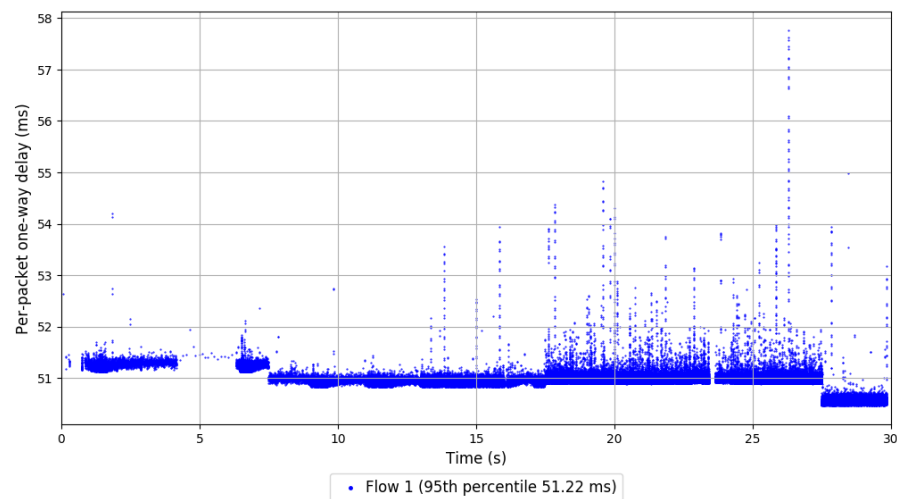
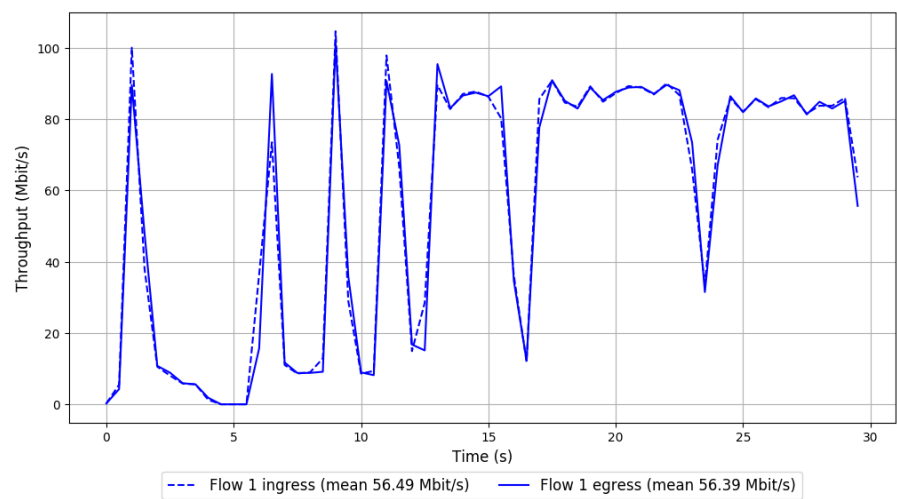
-- Flow 1:

Average throughput: 56.39 Mbit/s

95th percentile per-packet one-way delay: 51.224 ms

Loss rate: 0.51%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

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

End at: 2018-02-20 02:35:50

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.88 Mbit/s

95th percentile per-packet one-way delay: 51.107 ms

Loss rate: 0.63%

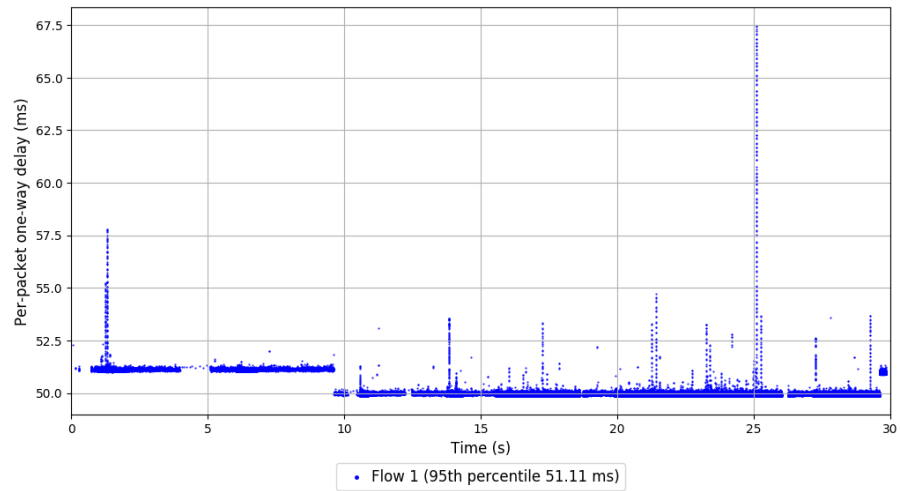
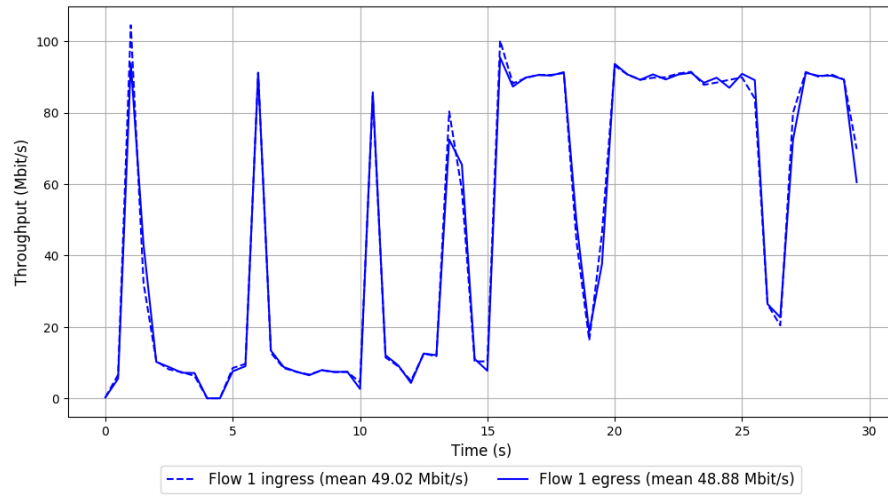
-- Flow 1:

Average throughput: 48.88 Mbit/s

95th percentile per-packet one-way delay: 51.107 ms

Loss rate: 0.63%

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



Run 9: Statistics of QUIC Cubic

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

End at: 2018-02-20 02:50:32

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 62.14 Mbit/s

95th percentile per-packet one-way delay: 50.993 ms

Loss rate: 0.49%

-- Flow 1:

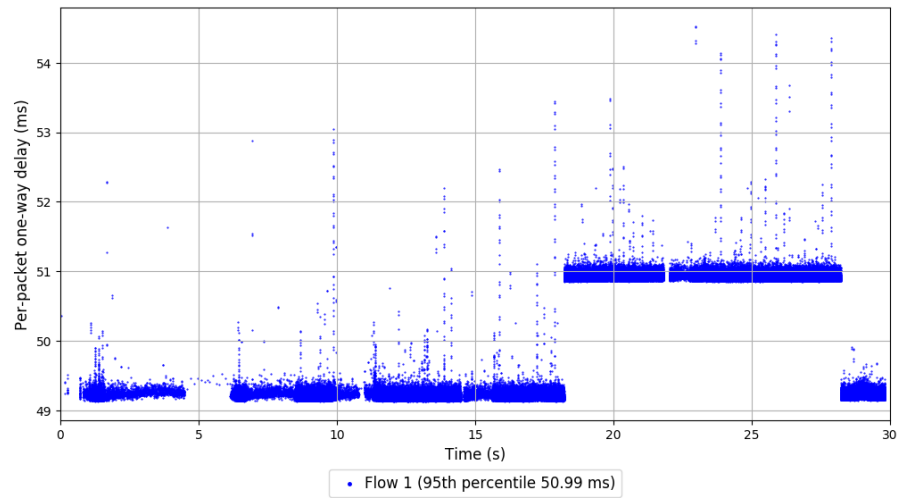
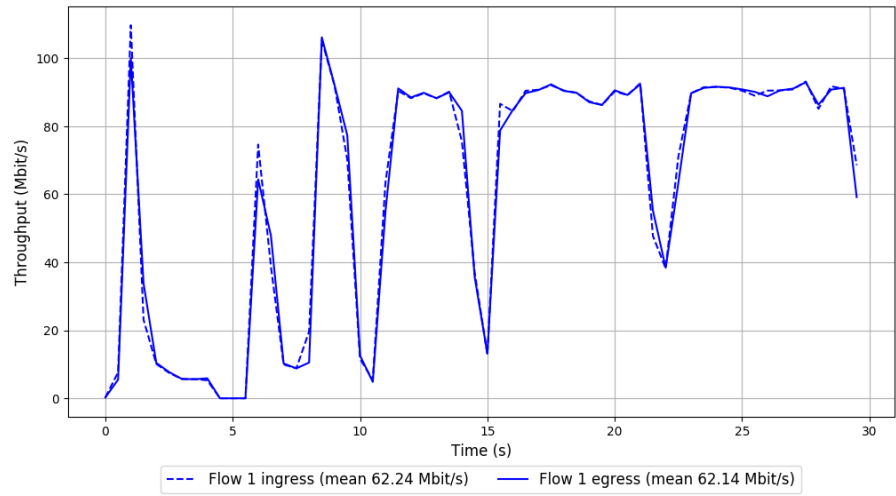
Average throughput: 62.14 Mbit/s

95th percentile per-packet one-way delay: 50.993 ms

Loss rate: 0.49%



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



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-20 03:04:47

End at: 2018-02-20 03:05:17

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 55.31 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 0.49%

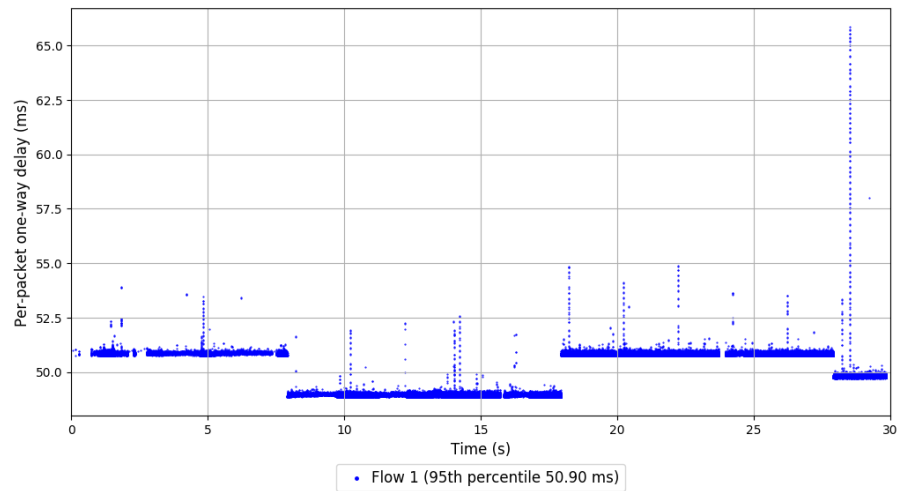
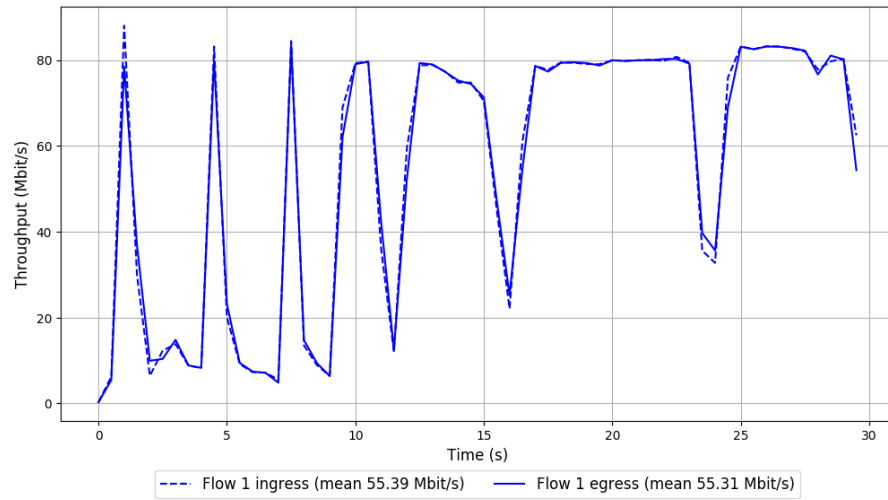
-- Flow 1:

Average throughput: 55.31 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 0.49%

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

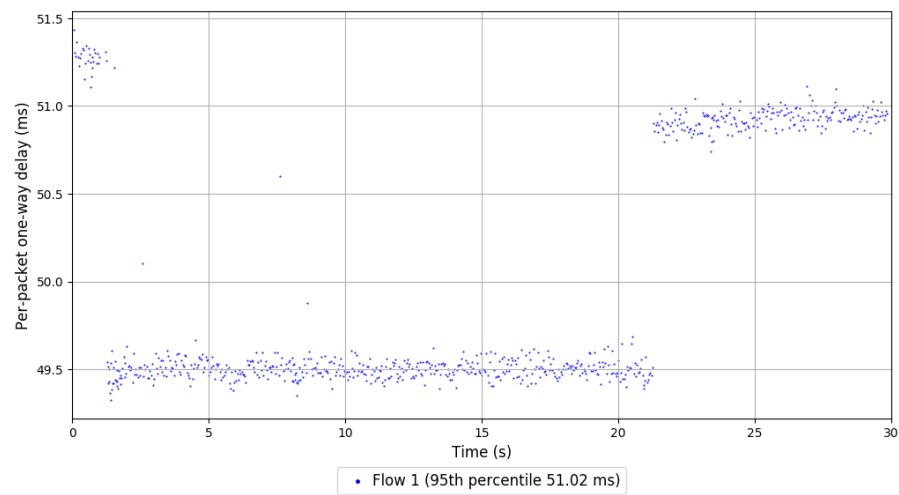
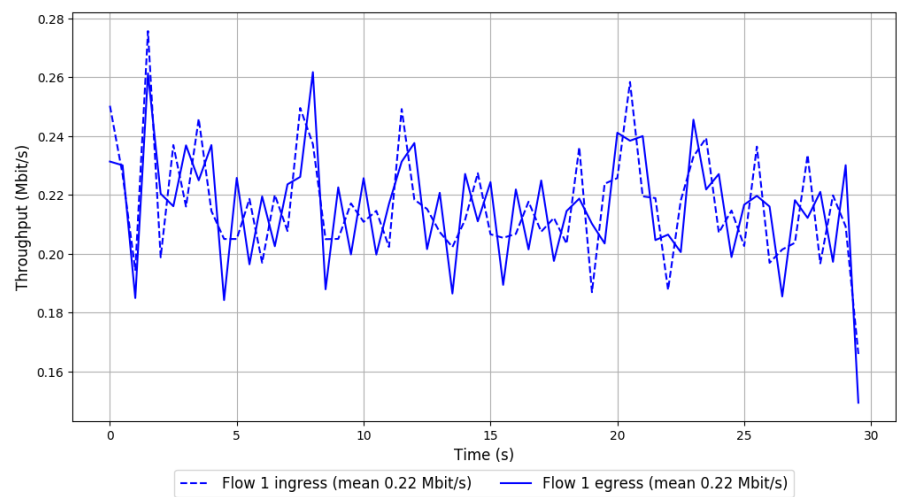


```
Run 1: Statistics of SCReAM

Start at: 2018-02-20 00:47:34
End at: 2018-02-20 00:48:04

# Below is generated by plot.py at 2018-02-20 06:26:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.024 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.024 ms
Loss rate: 0.25%
```

Run 1: Report of SReAM — Data Link

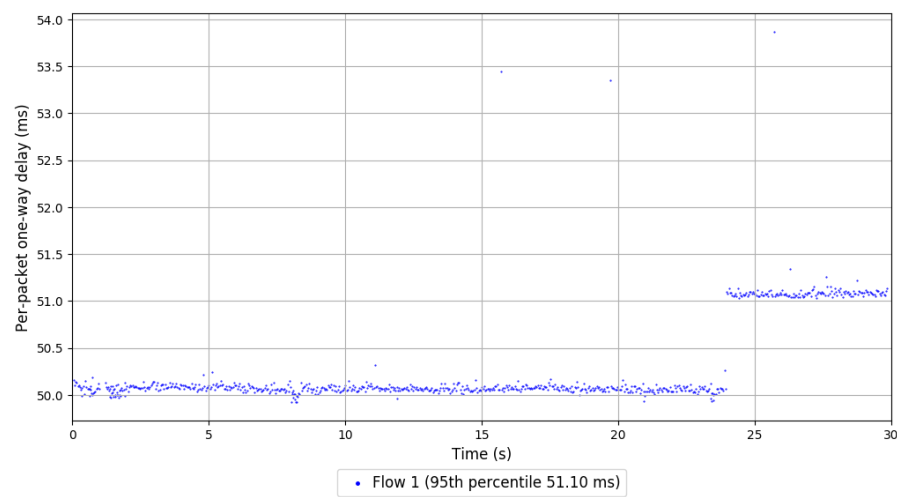
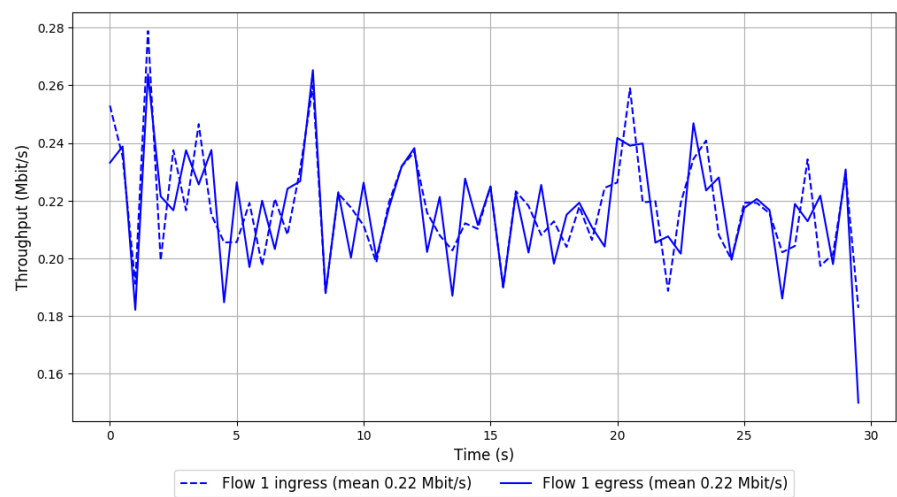


```
Run 2: Statistics of SCReAM

Start at: 2018-02-20 01:02:26
End at: 2018-02-20 01:02:56

# Below is generated by plot.py at 2018-02-20 06:26:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.097 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.097 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-20 01:17:23

End at: 2018-02-20 01:17:53

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.240 ms

Loss rate: 0.38%

-- Flow 1:

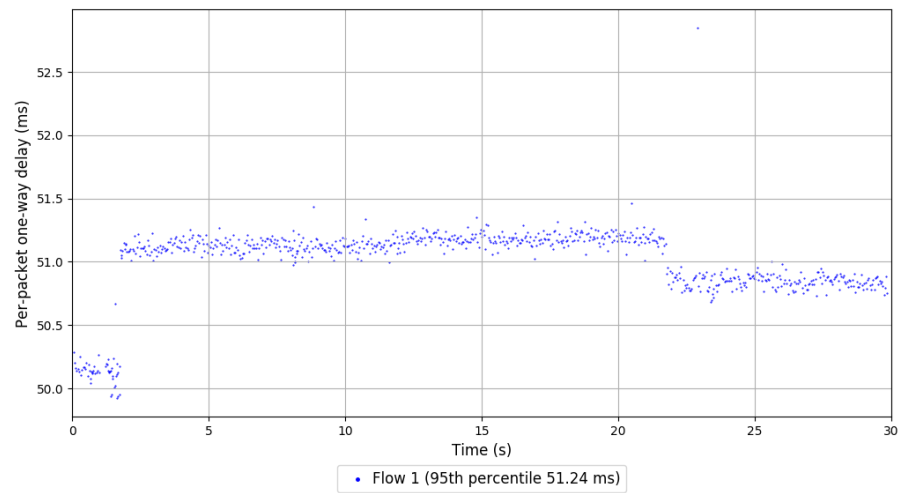
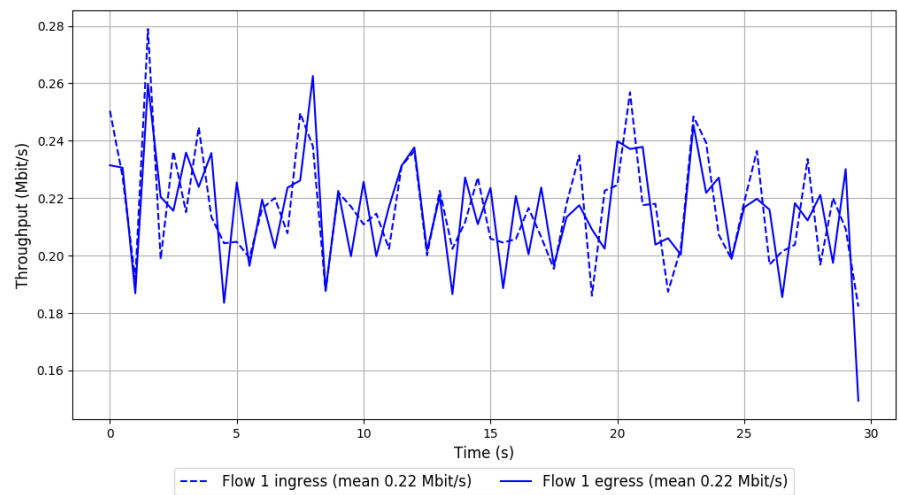
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.240 ms

Loss rate: 0.38%



Run 3: Report of SReAM — Data Link

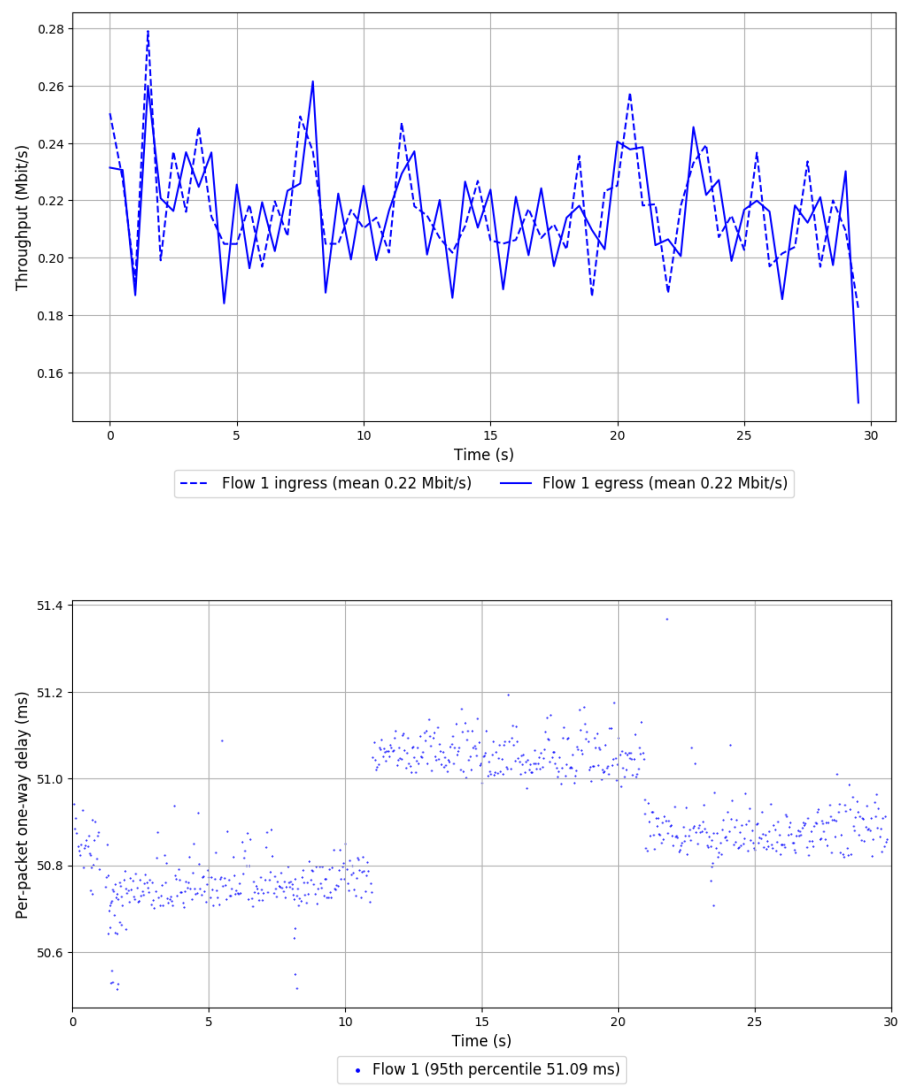


```
Run 4: Statistics of SCReAM

Start at: 2018-02-20 01:32:09
End at: 2018-02-20 01:32:39

# Below is generated by plot.py at 2018-02-20 06:26:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.094 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.094 ms
Loss rate: 0.38%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-20 01:46:50

End at: 2018-02-20 01:47:20

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.266 ms

Loss rate: 0.51%

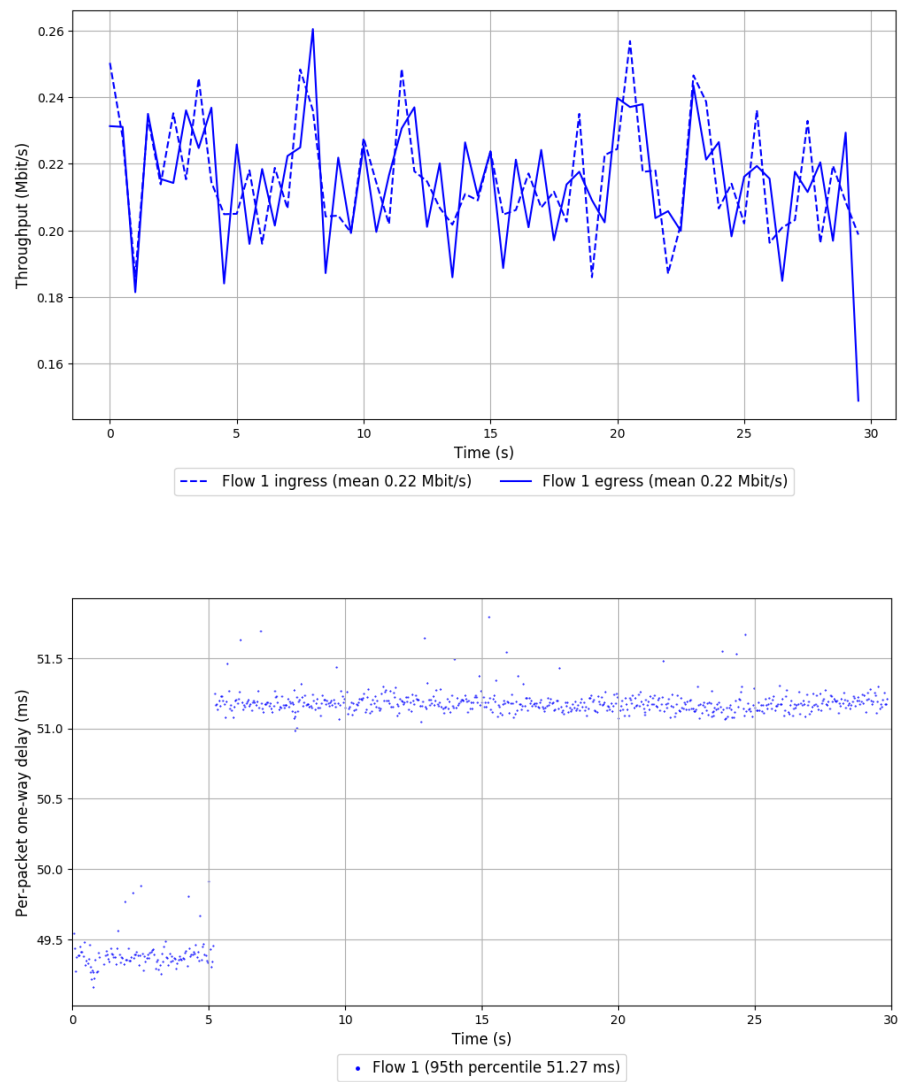
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.266 ms

Loss rate: 0.51%

Run 5: Report of SCRaM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-20 02:01:41

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

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.313 ms

Loss rate: 0.38%

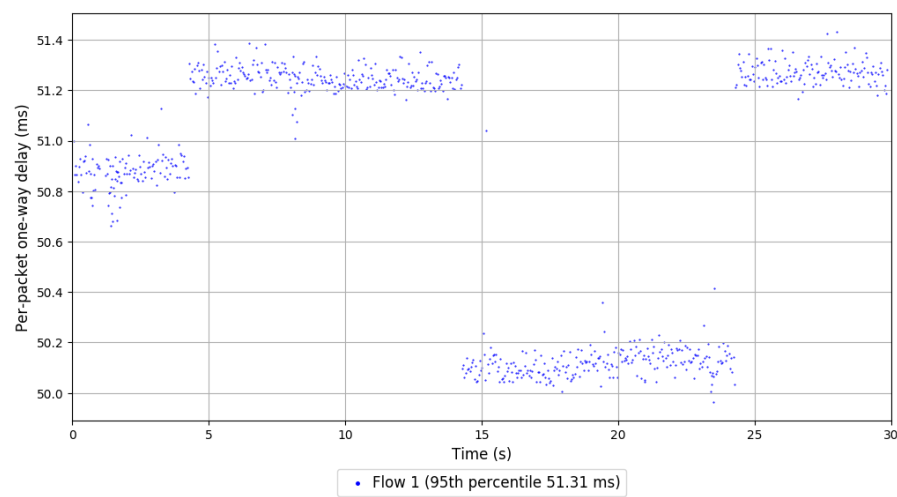
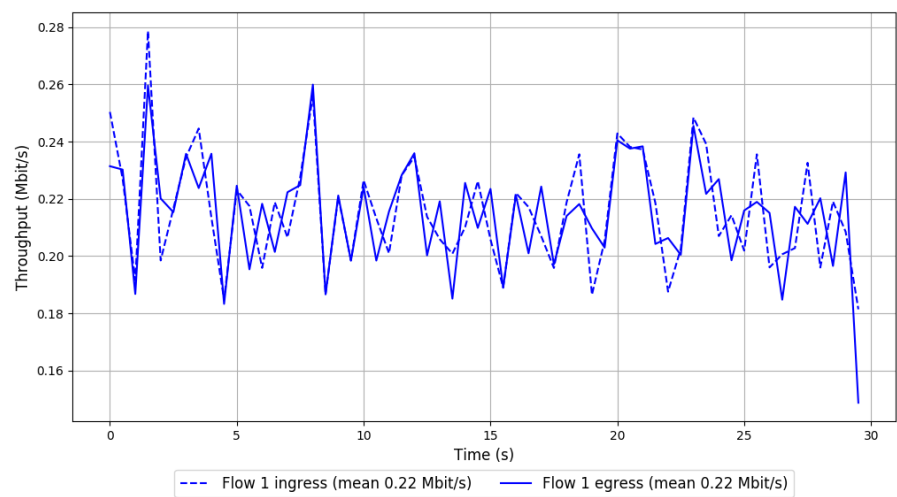
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.313 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-20 02:16:23

End at: 2018-02-20 02:16:53

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.161 ms

Loss rate: 0.38%

-- Flow 1:

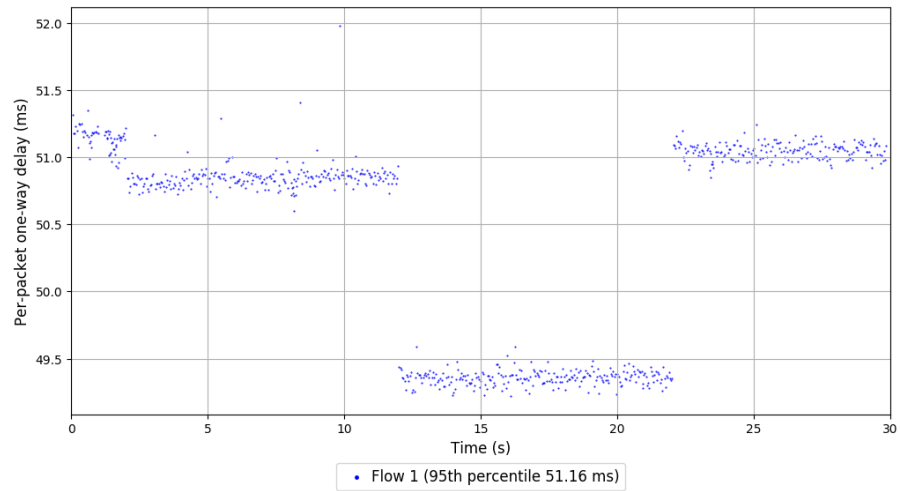
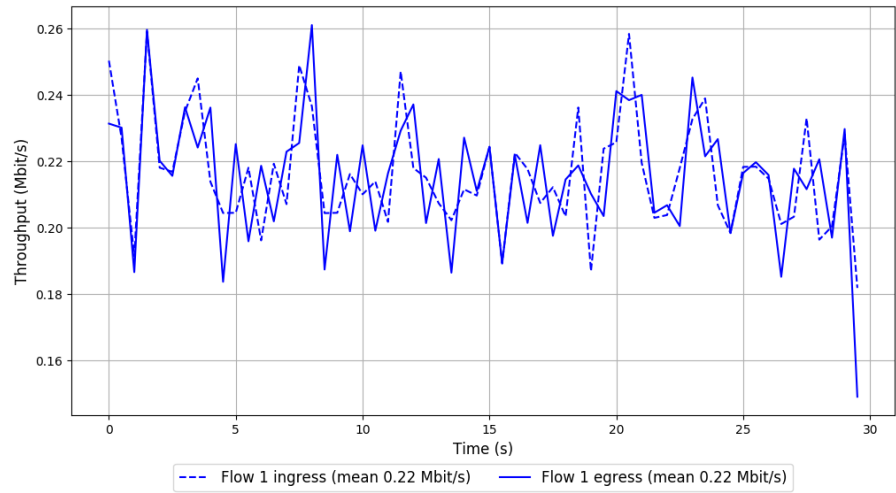
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.161 ms

Loss rate: 0.38%



## Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

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

End at: 2018-02-20 02:31:38

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.001 ms

Loss rate: 0.38%

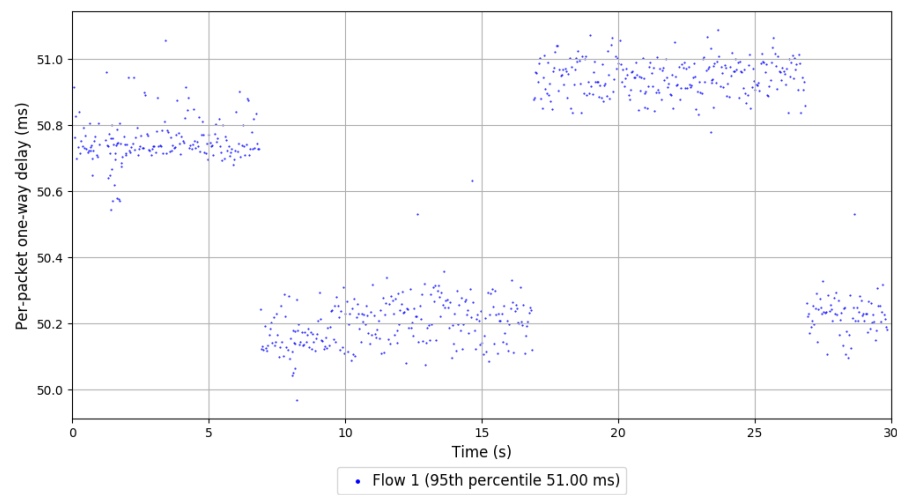
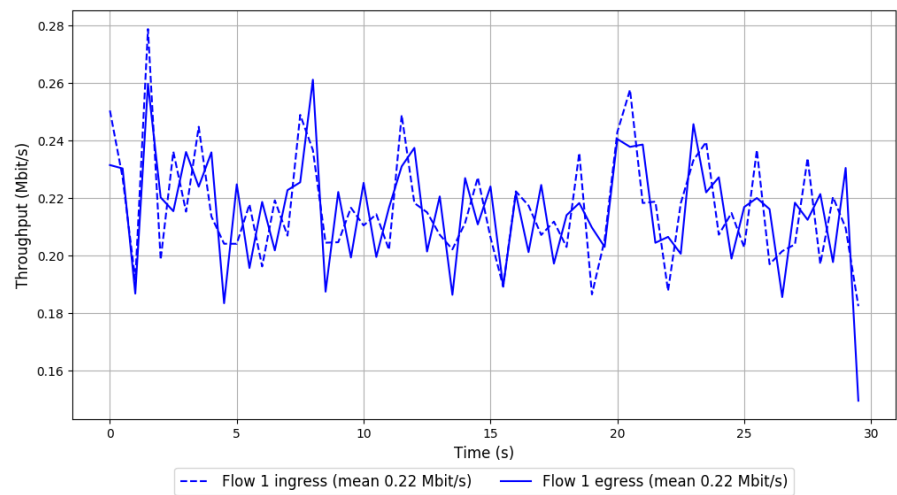
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.001 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

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

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

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.198 ms

Loss rate: 0.38%

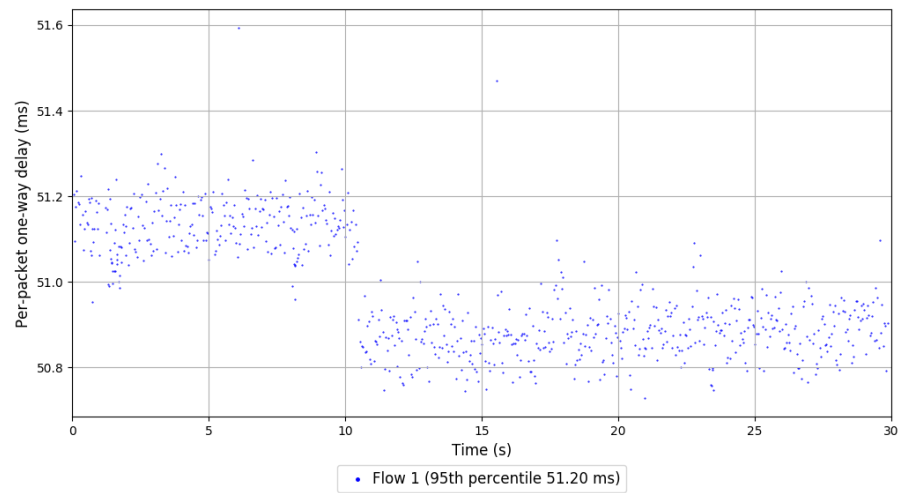
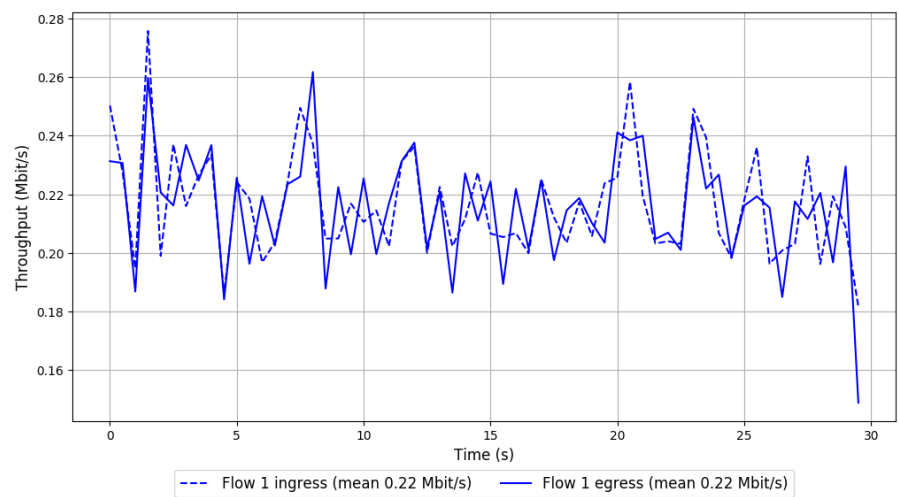
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.198 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-20 03:00:32

End at: 2018-02-20 03:01:02

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.122 ms

Loss rate: 0.38%

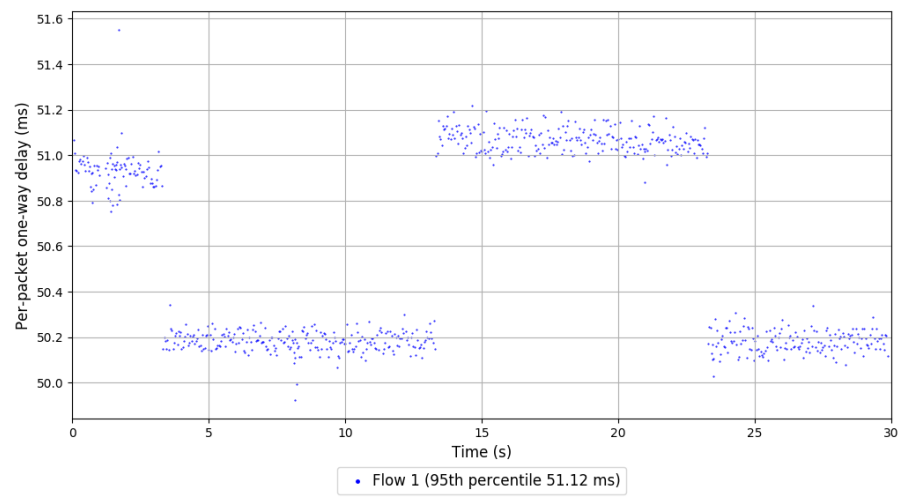
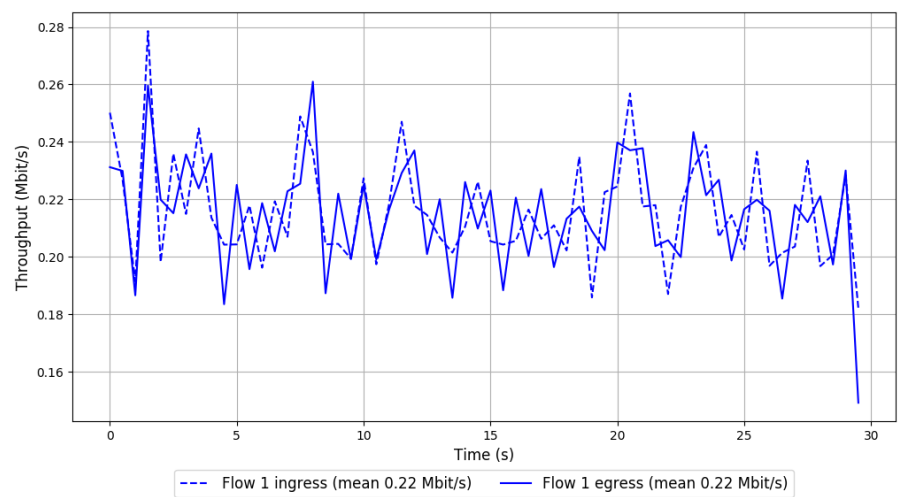
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.122 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link



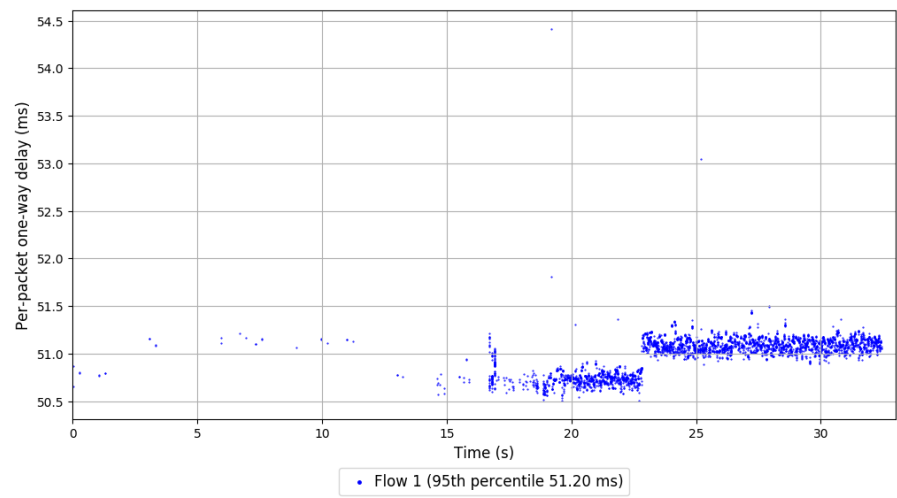
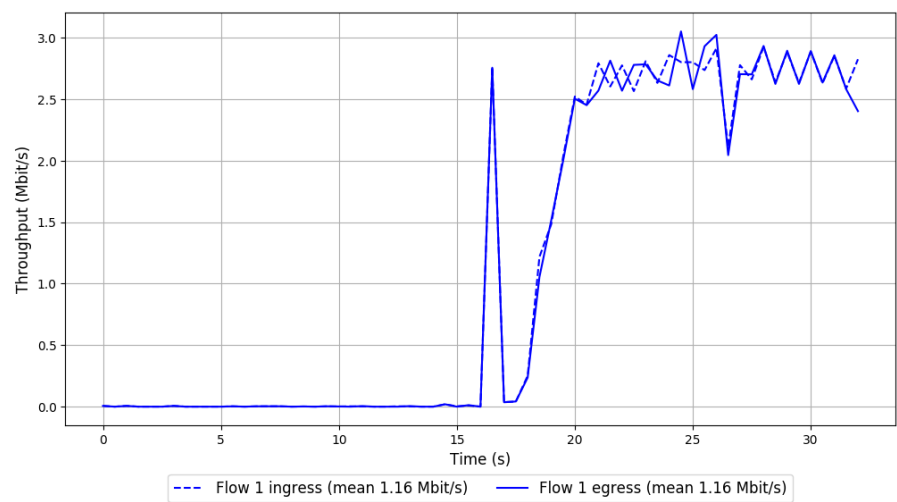
```
Run 1: Statistics of WebRTC media

Start at: 2018-02-20 00:59:15
End at: 2018-02-20 00:59:45

# Below is generated by plot.py at 2018-02-20 06:26:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 51.198 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 51.198 ms
Loss rate: 0.84%
```



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-20 01:14:11

End at: 2018-02-20 01:14:41

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 51.378 ms

Loss rate: 0.43%

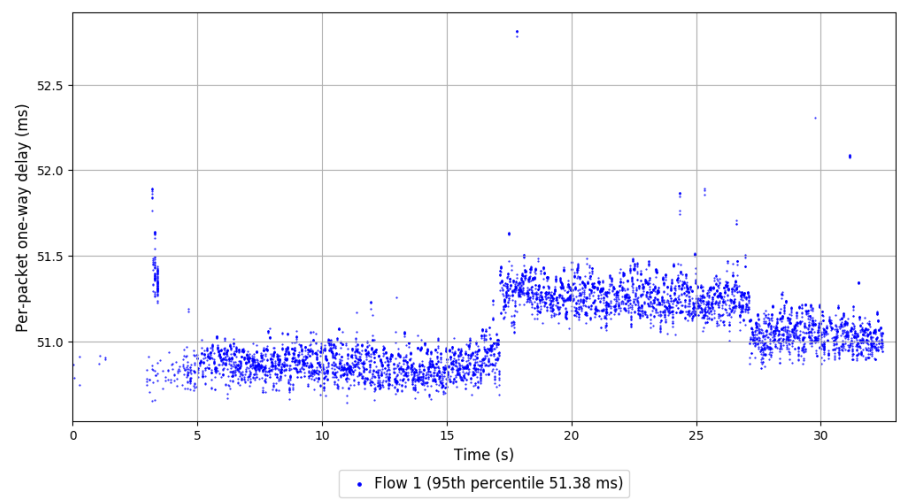
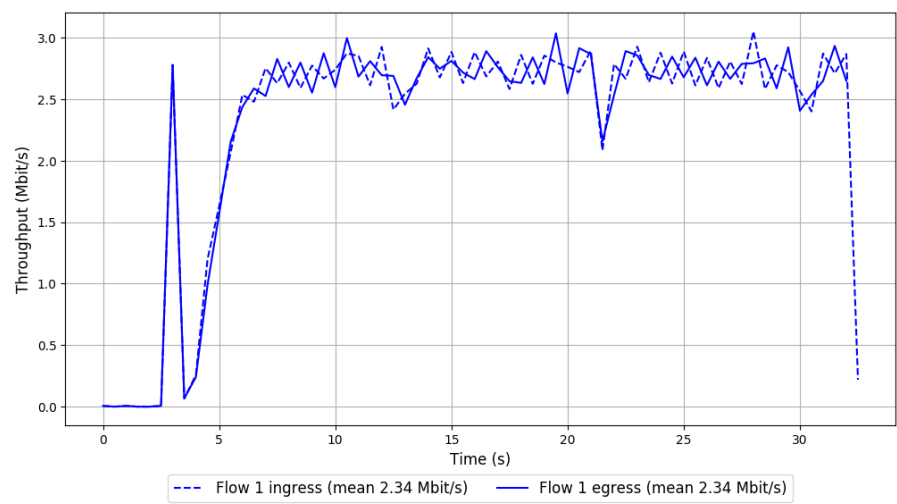
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 51.378 ms

Loss rate: 0.43%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-20 01:28:59

End at: 2018-02-20 01:29:29

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 51.267 ms

Loss rate: 0.43%

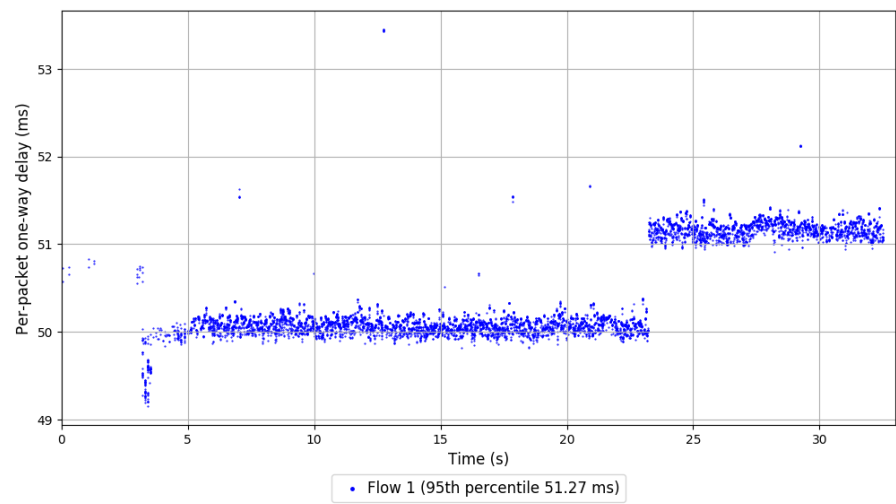
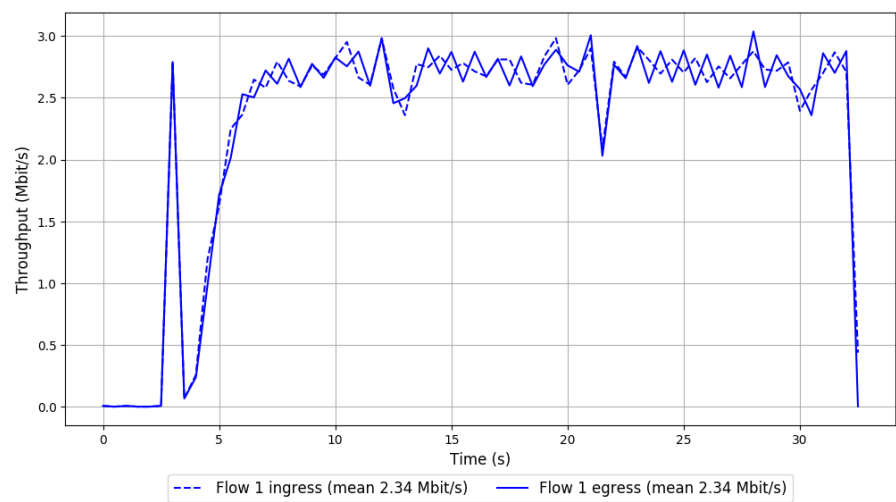
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 51.267 ms

Loss rate: 0.43%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-20 01:43:39

End at: 2018-02-20 01:44:09

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.924 ms

Loss rate: 0.43%

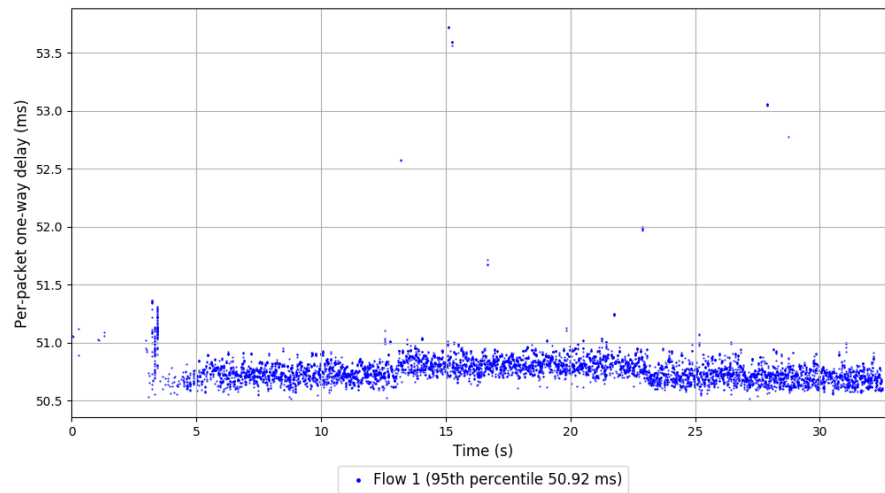
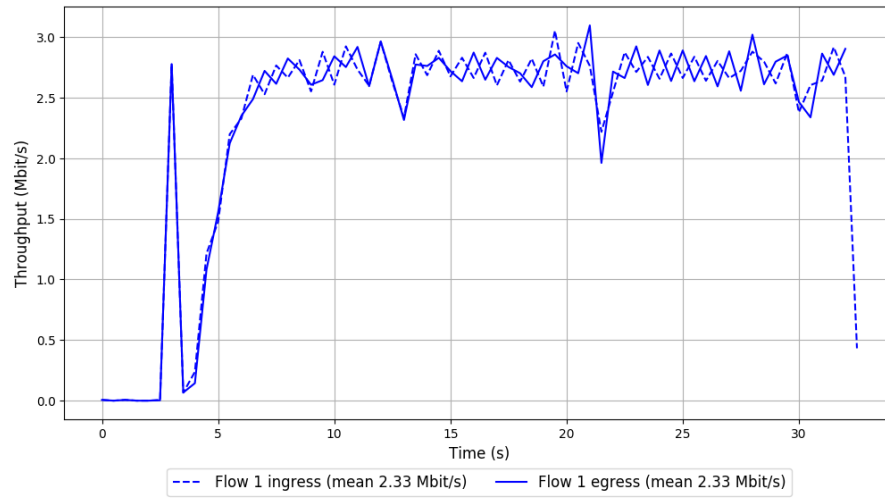
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.924 ms

Loss rate: 0.43%

#### Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-20 01:58:29

End at: 2018-02-20 01:58:59

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.607 ms

Loss rate: 0.38%

-- Flow 1:

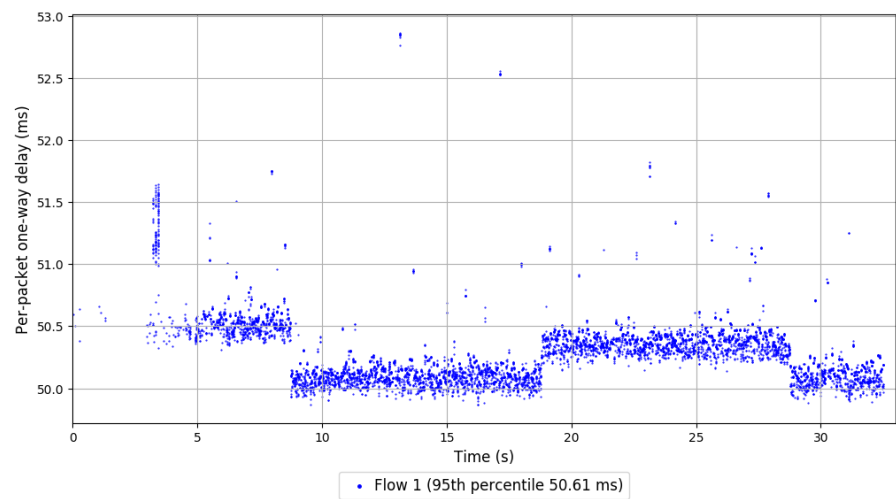
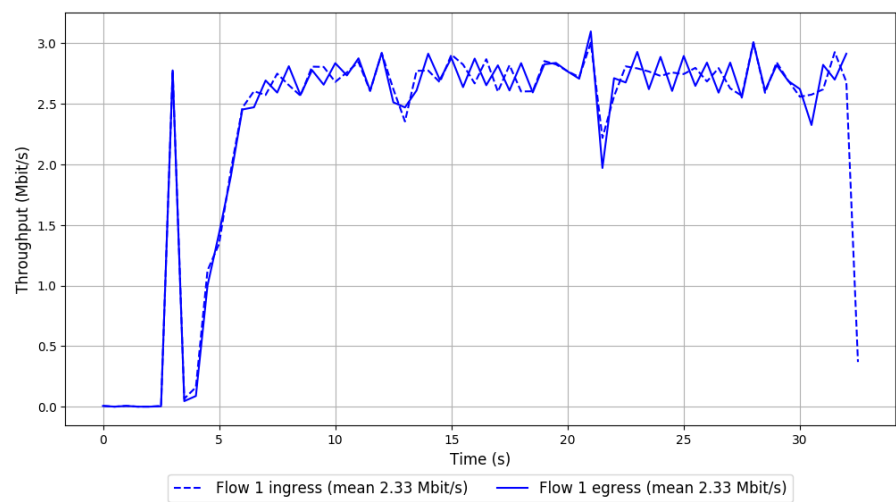
Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.607 ms

Loss rate: 0.38%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-20 02:13:11

End at: 2018-02-20 02:13:41

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 51.224 ms

Loss rate: 0.44%

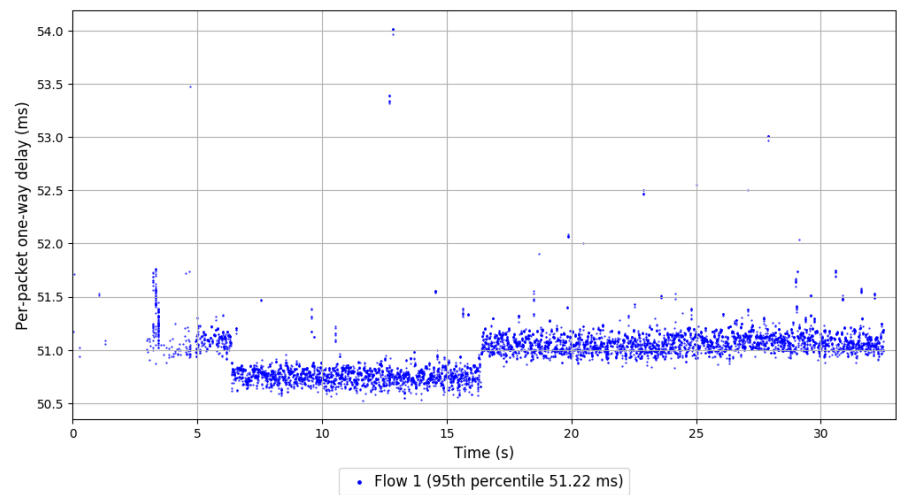
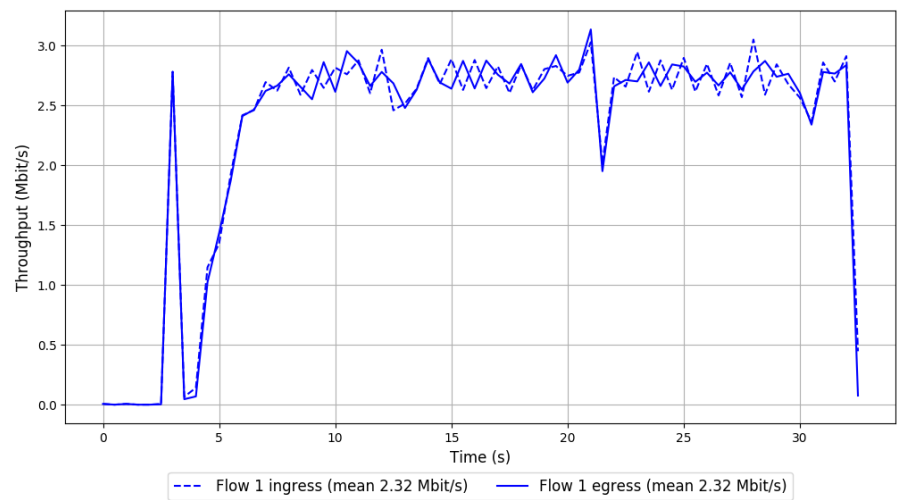
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 51.224 ms

Loss rate: 0.44%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-20 02:28:00

End at: 2018-02-20 02:28:30

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 51.129 ms

Loss rate: 0.39%

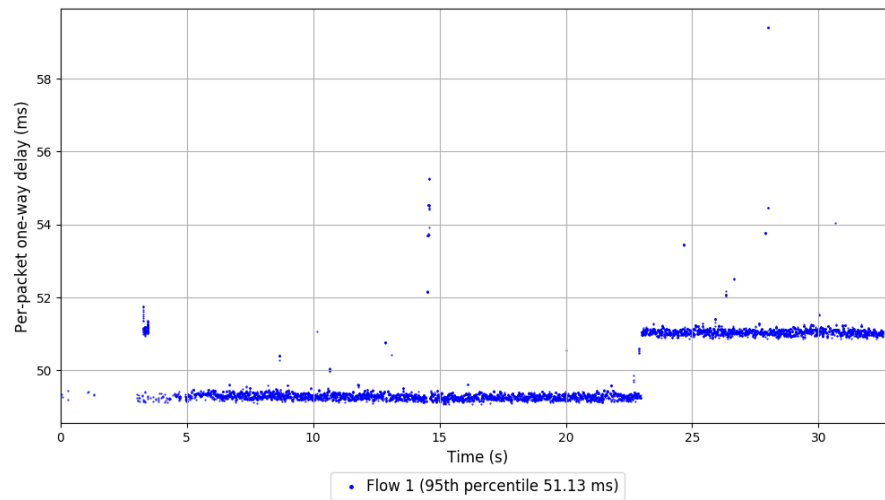
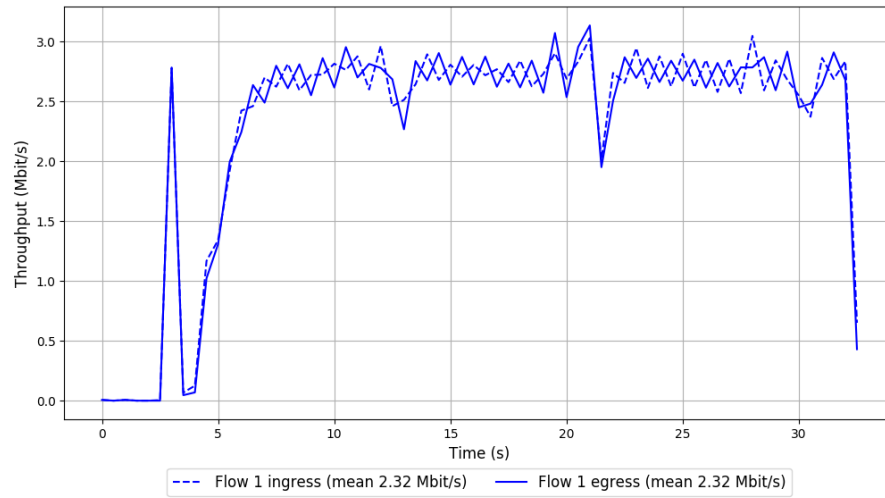
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 51.129 ms

Loss rate: 0.39%

## Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

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

End at: 2018-02-20 02:43:12

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 51.341 ms

Loss rate: 0.42%

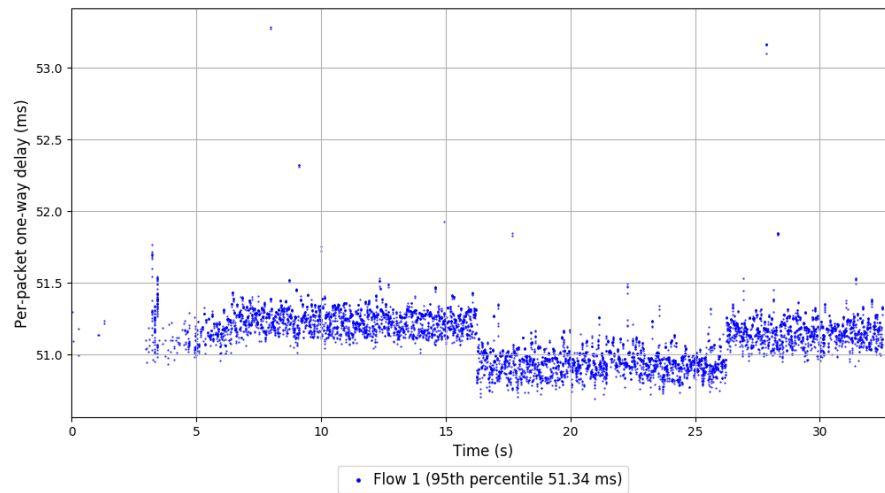
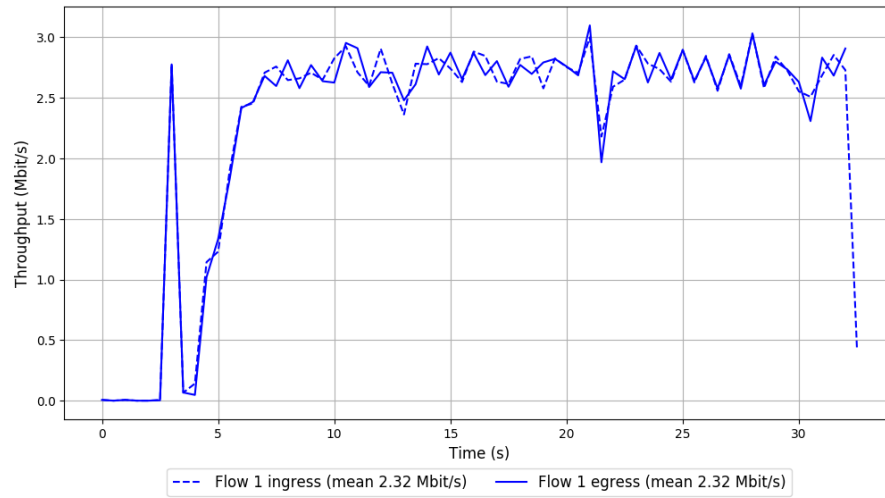
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 51.341 ms

Loss rate: 0.42%

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



Run 9: Statistics of WebRTC media

Start at: 2018-02-20 02:57:28

End at: 2018-02-20 02:57:58

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 51.349 ms

Loss rate: 0.29%

-- Flow 1:

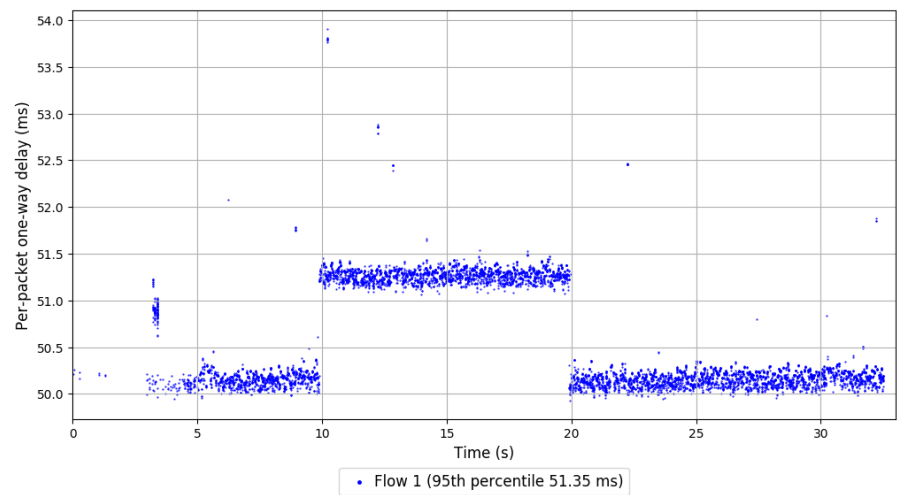
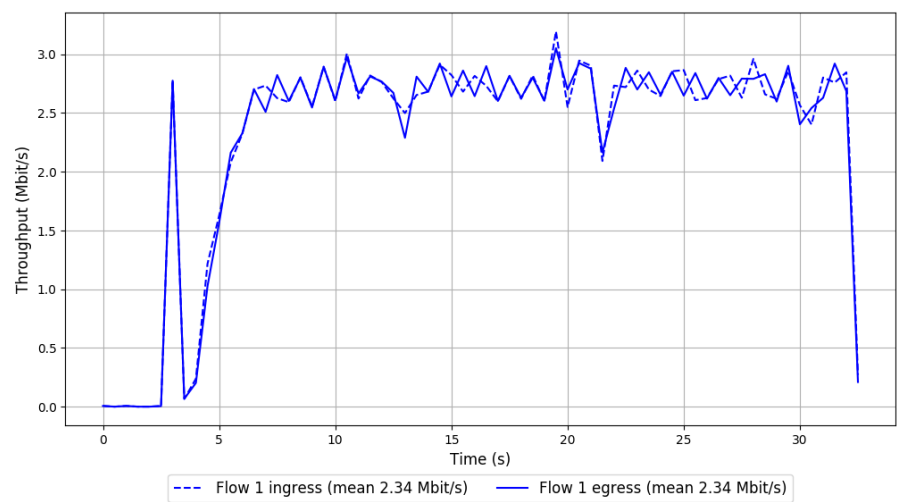
Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 51.349 ms

Loss rate: 0.29%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-20 03:12:14

End at: 2018-02-20 03:12:44

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.862 ms

Loss rate: 0.33%

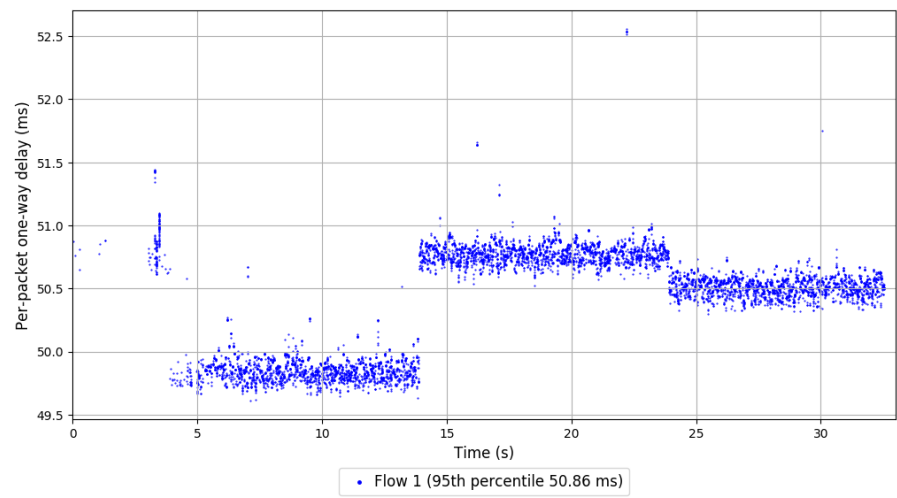
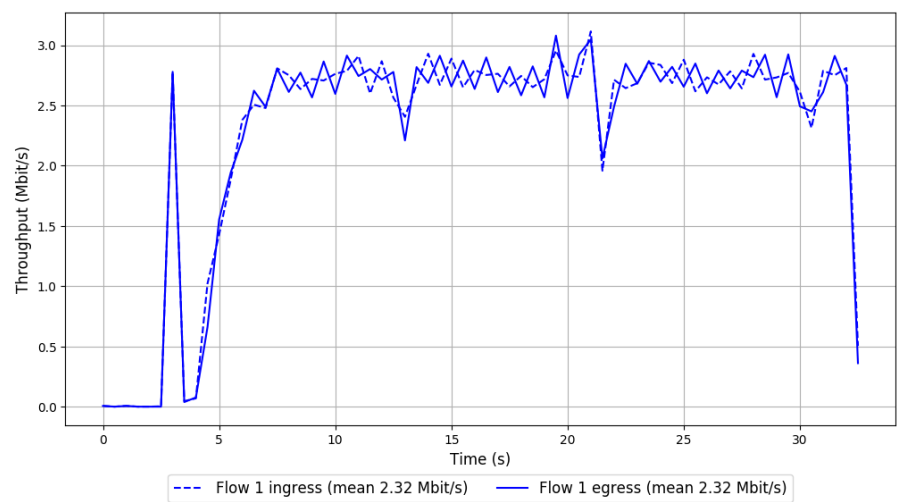
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.862 ms

Loss rate: 0.33%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-20 00:53:08

End at: 2018-02-20 00:53:38

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 51.666 ms

Loss rate: 0.22%

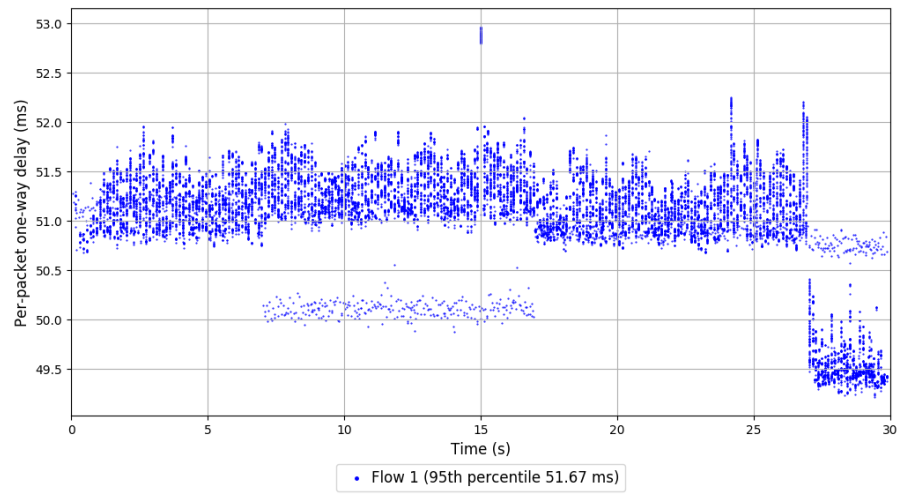
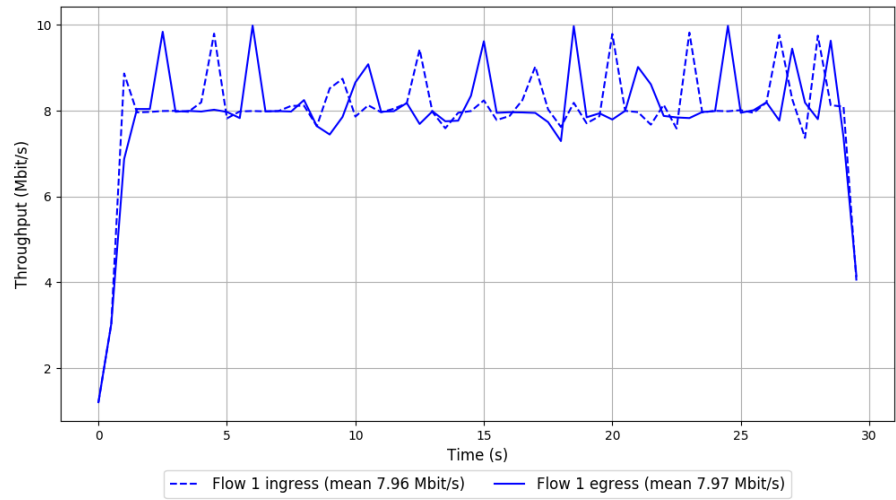
-- Flow 1:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 51.666 ms

Loss rate: 0.22%

# Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-20 01:07:59

End at: 2018-02-20 01:08:29

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.545 ms

Loss rate: 0.41%

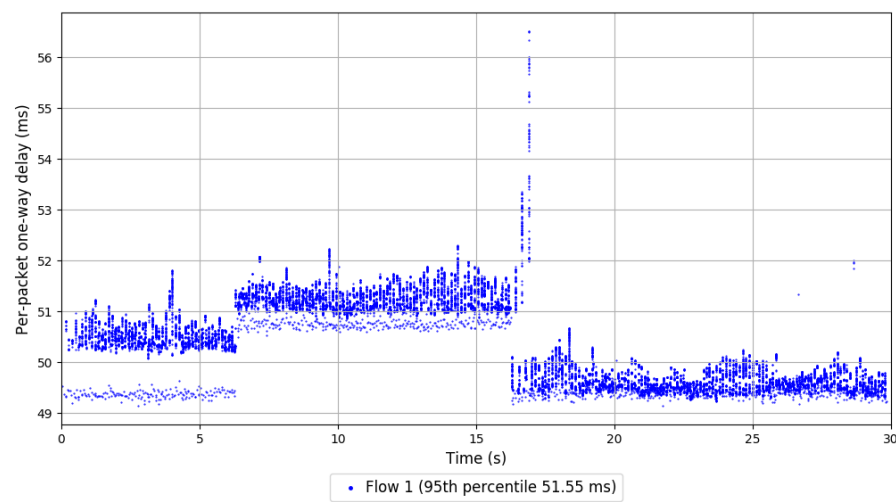
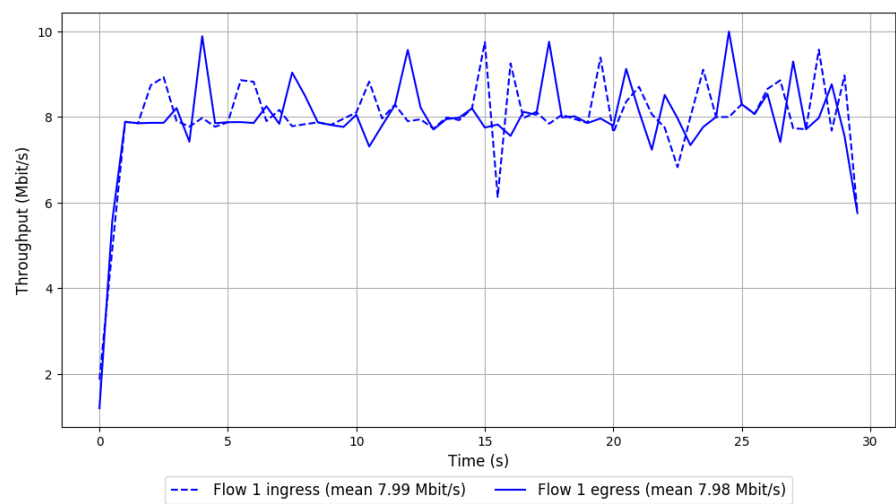
-- Flow 1:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.545 ms

Loss rate: 0.41%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-20 01:22:59

End at: 2018-02-20 01:23:29

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 51.756 ms

Loss rate: 0.40%

-- Flow 1:

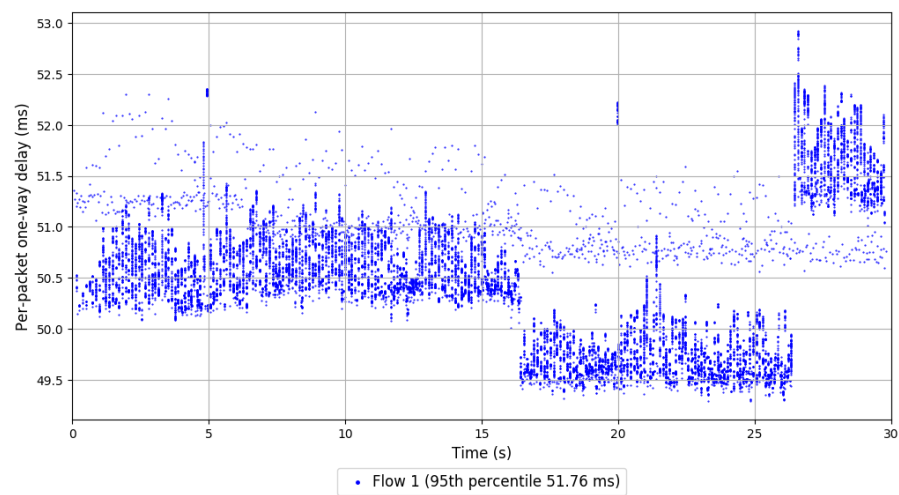
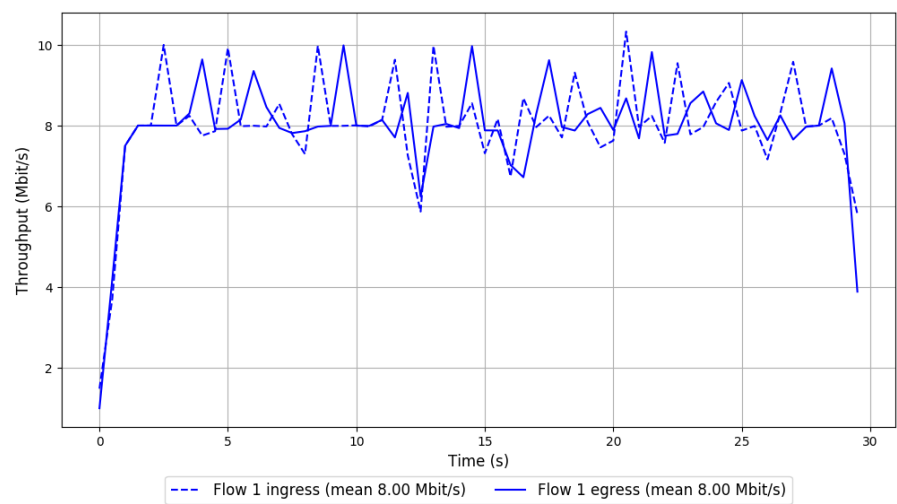
Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 51.756 ms

Loss rate: 0.40%



Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-20 01:37:42

End at: 2018-02-20 01:38:12

# Below is generated by plot.py at 2018-02-20 06:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.673 ms

Loss rate: 0.34%

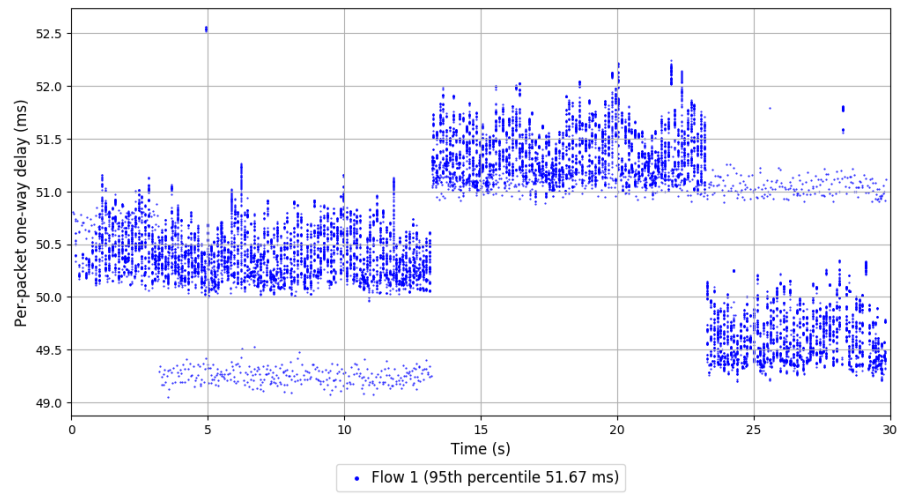
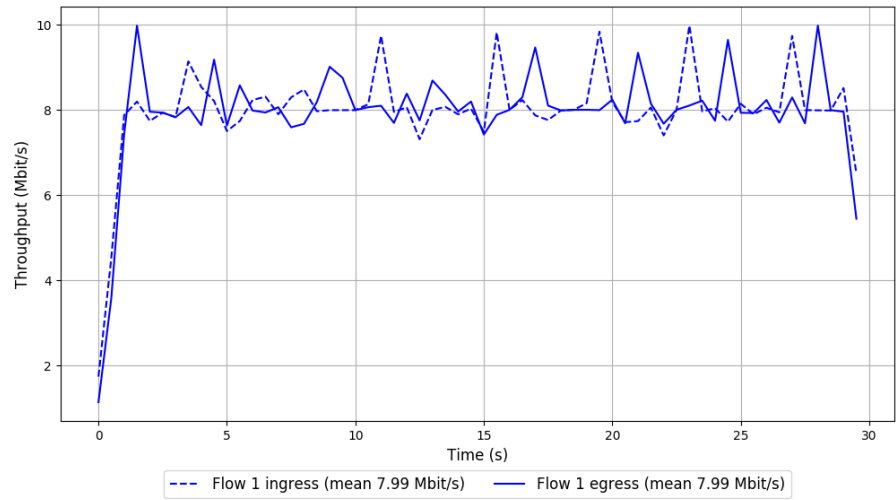
-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.673 ms

Loss rate: 0.34%

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



Run 5: Statistics of Sprout

Start at: 2018-02-20 01:52:25

End at: 2018-02-20 01:52:55

# Below is generated by plot.py at 2018-02-20 06:26:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 0.42%

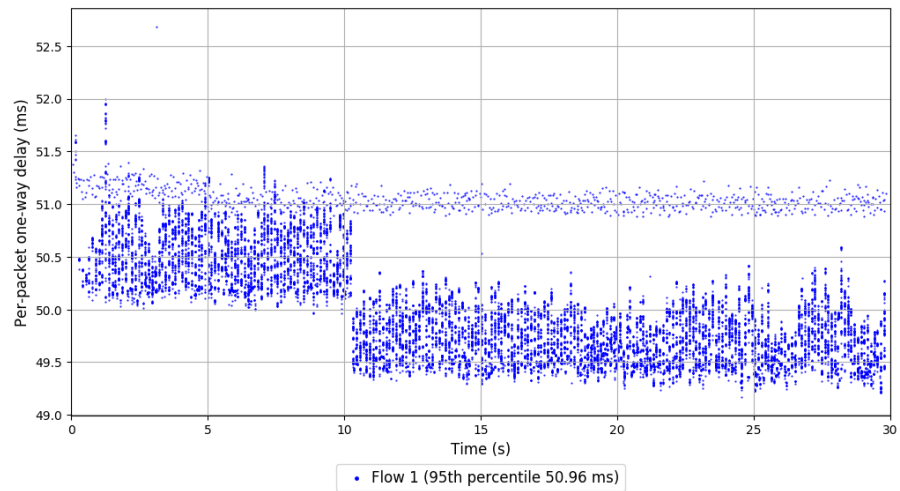
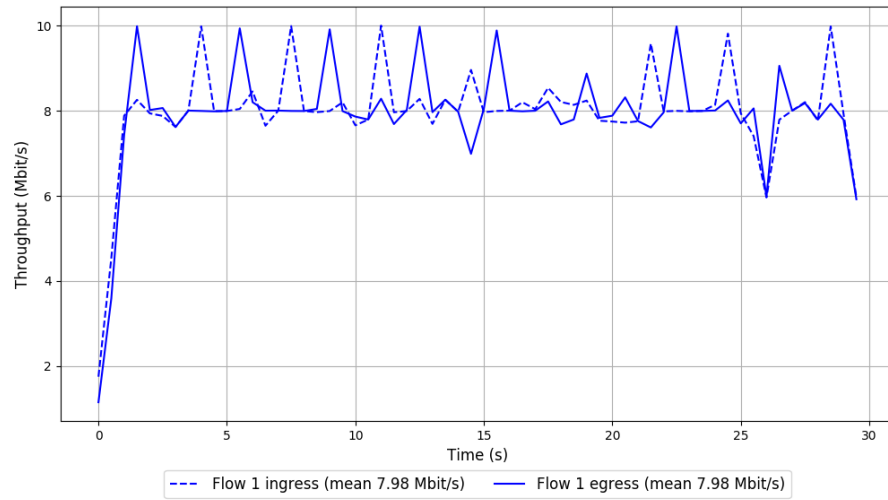
-- Flow 1:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 0.42%

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



Run 6: Statistics of Sprout

Start at: 2018-02-20 02:07:14

End at: 2018-02-20 02:07:44

# Below is generated by plot.py at 2018-02-20 06:26:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.773 ms

Loss rate: 0.42%

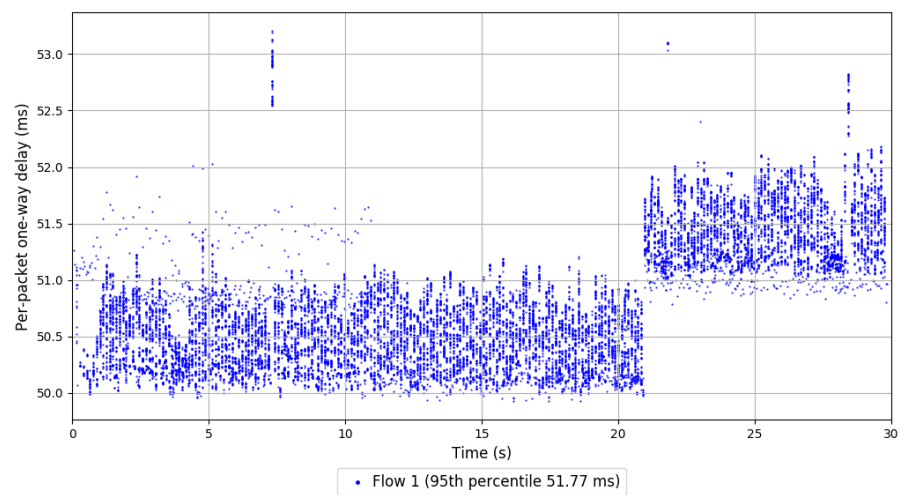
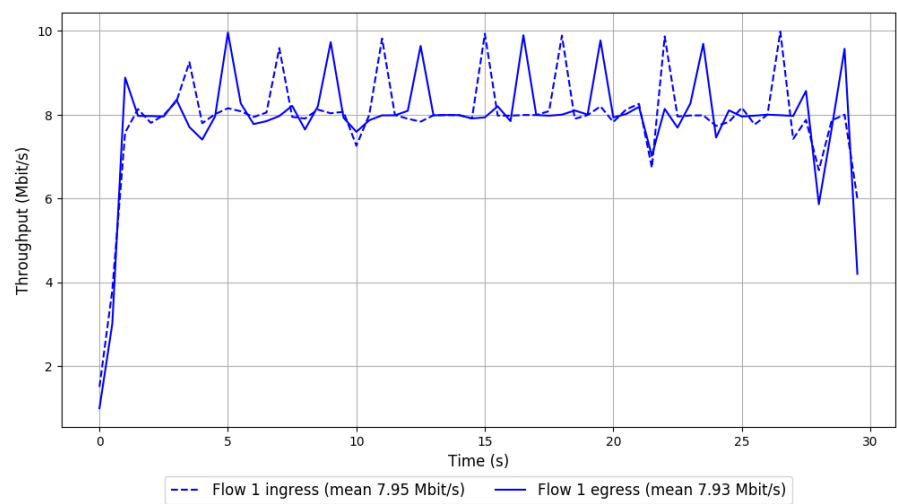
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.773 ms

Loss rate: 0.42%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-20 02:21:56

End at: 2018-02-20 02:22:26

# Below is generated by plot.py at 2018-02-20 06:26:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 50.918 ms

Loss rate: 0.42%

-- Flow 1:

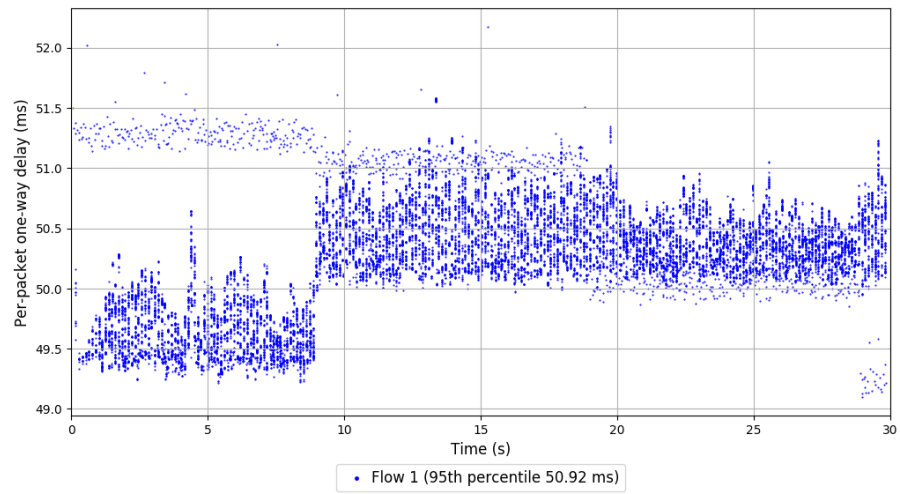
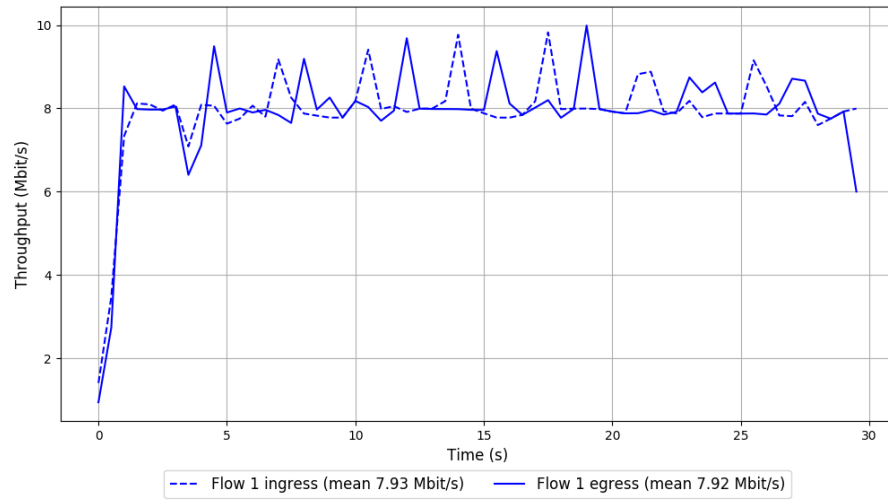
Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 50.918 ms

Loss rate: 0.42%



## Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-20 02:36:38

End at: 2018-02-20 02:37:08

# Below is generated by plot.py at 2018-02-20 06:26:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 51.952 ms

Loss rate: 0.46%

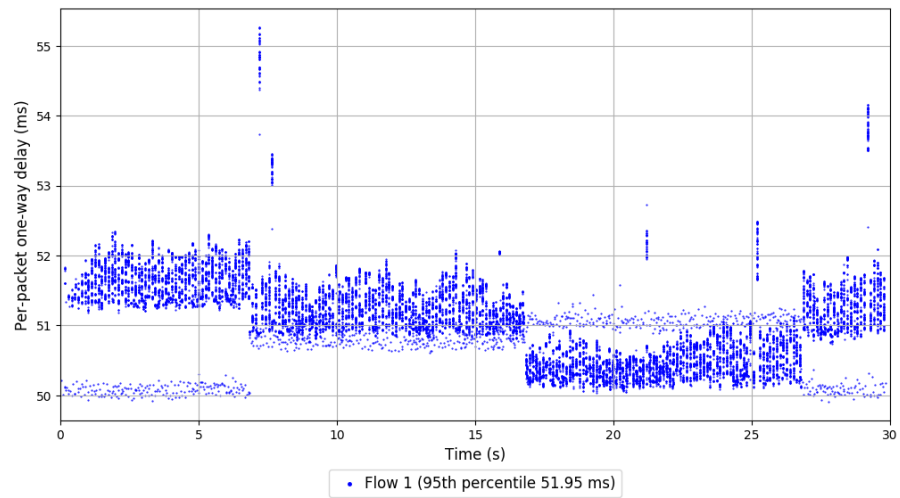
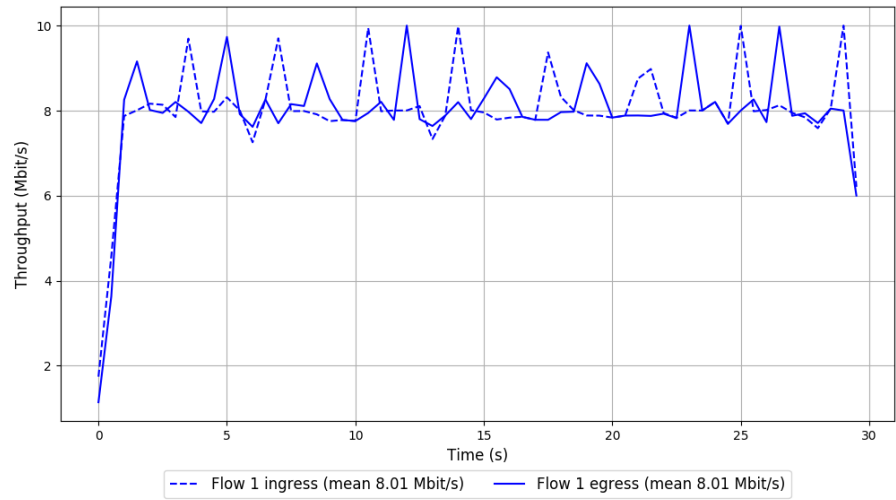
-- Flow 1:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 51.952 ms

Loss rate: 0.46%

## Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

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

End at: 2018-02-20 02:51:50

# Below is generated by plot.py at 2018-02-20 06:26:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 51.730 ms

Loss rate: 0.36%

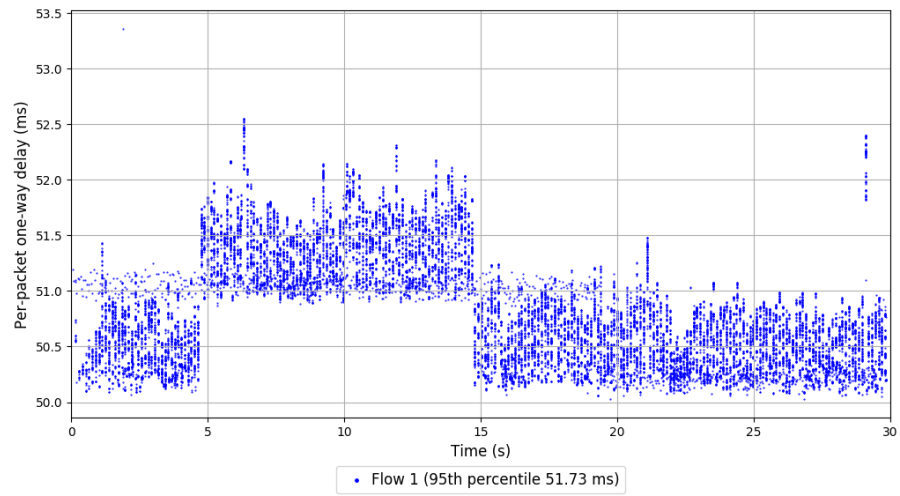
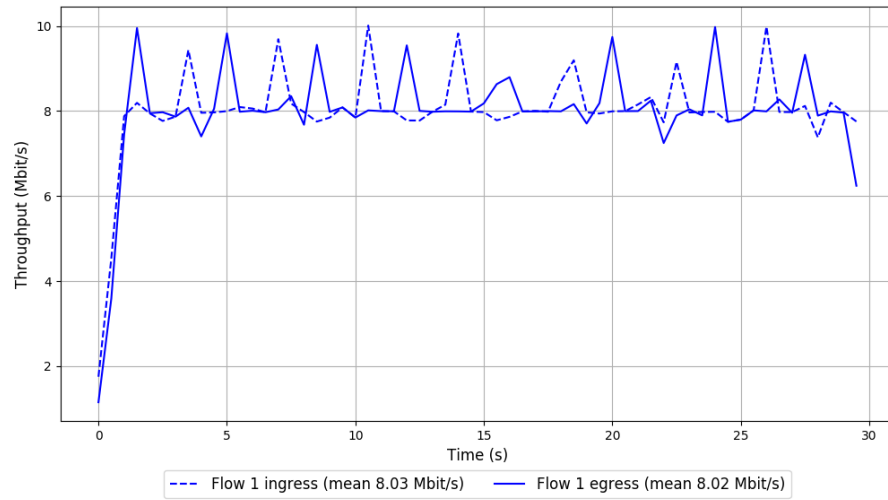
-- Flow 1:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 51.730 ms

Loss rate: 0.36%

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



Run 10: Statistics of Sprout

Start at: 2018-02-20 03:06:06

End at: 2018-02-20 03:06:36

# Below is generated by plot.py at 2018-02-20 06:26:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.699 ms

Loss rate: 0.42%

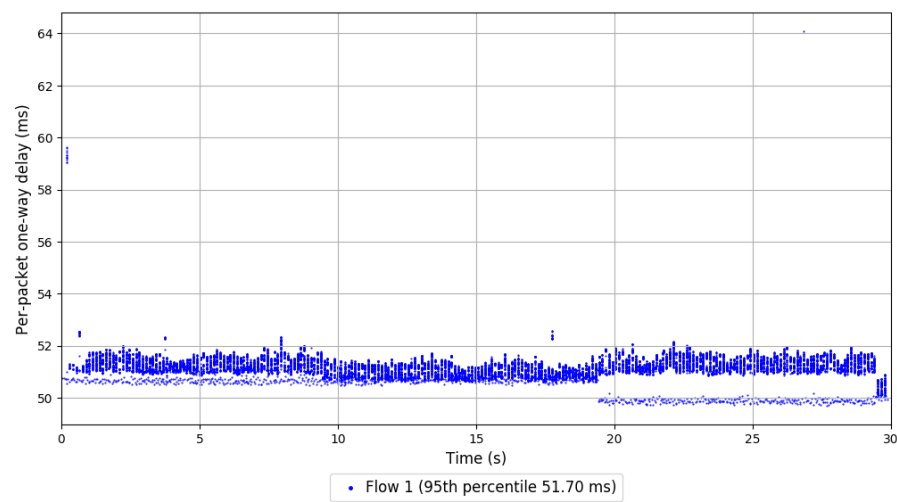
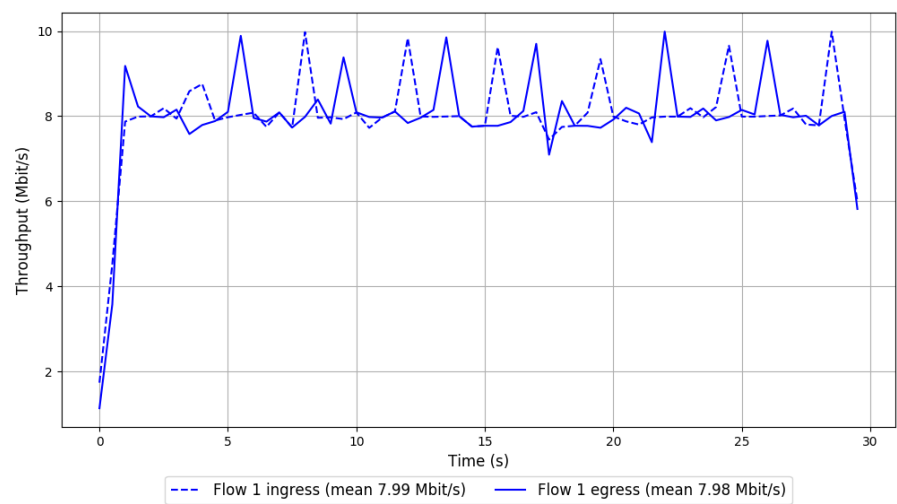
-- Flow 1:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.699 ms

Loss rate: 0.42%

Run 10: Report of Sprout — Data Link



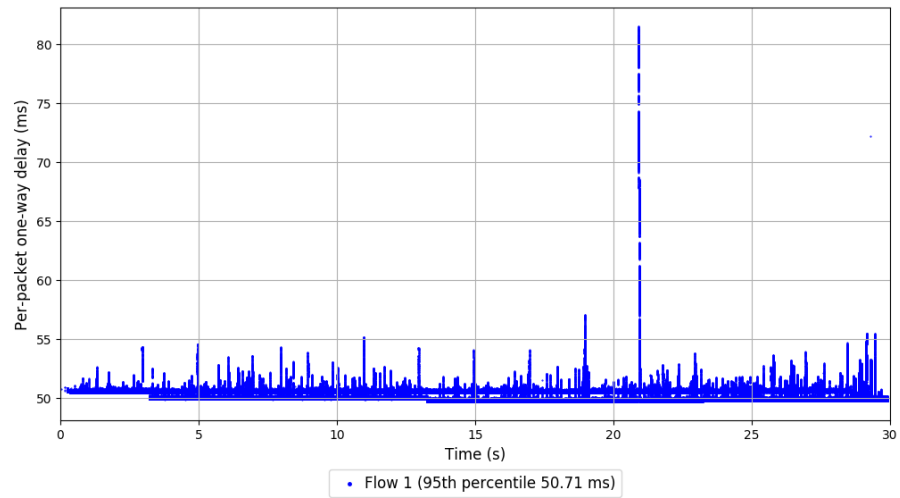
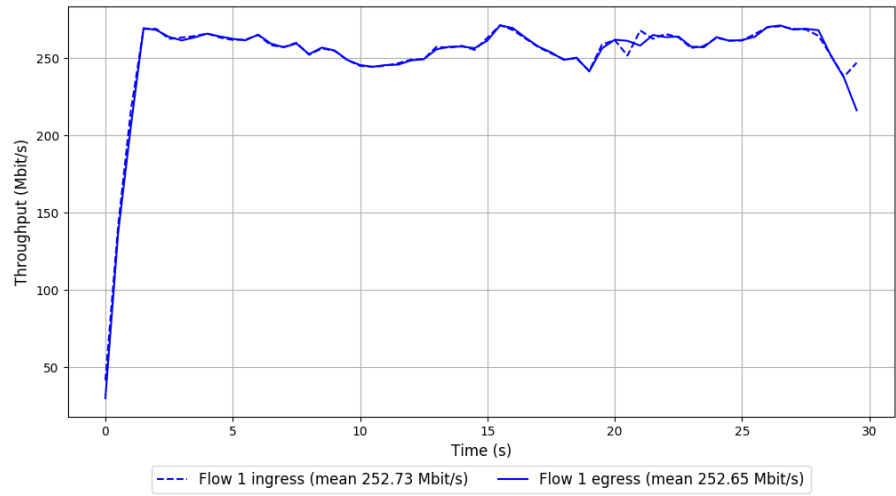
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-20 00:57:37
End at: 2018-02-20 00:58:07

# Below is generated by plot.py at 2018-02-20 06:26:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 252.65 Mbit/s
95th percentile per-packet one-way delay: 50.710 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 252.65 Mbit/s
95th percentile per-packet one-way delay: 50.710 ms
Loss rate: 0.36%
```



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

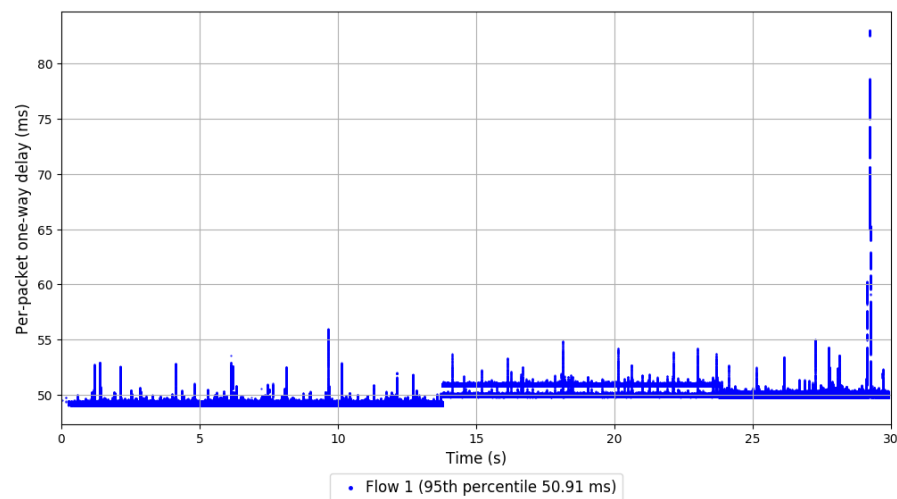
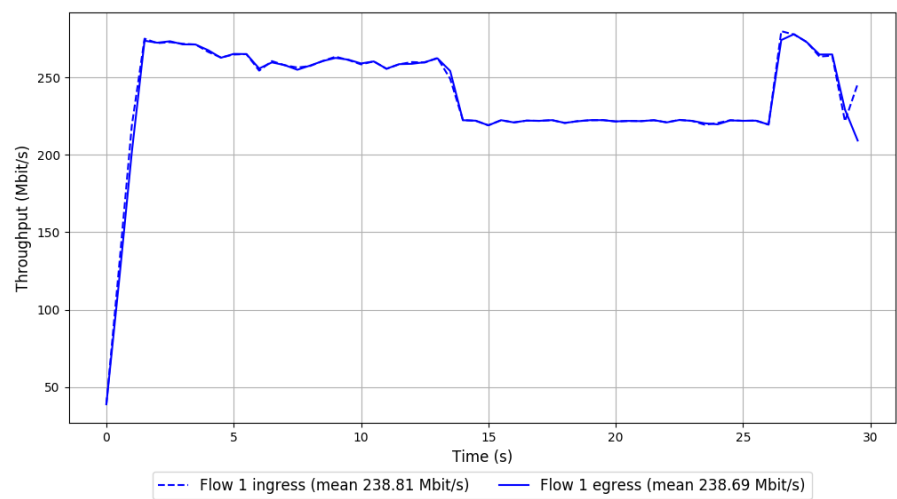


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-20 01:12:31
End at: 2018-02-20 01:13:01

# Below is generated by plot.py at 2018-02-20 06:26:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.69 Mbit/s
95th percentile per-packet one-way delay: 50.912 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 238.69 Mbit/s
95th percentile per-packet one-way delay: 50.912 ms
Loss rate: 0.38%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-20 01:27:24

End at: 2018-02-20 01:27:54

# Below is generated by plot.py at 2018-02-20 06:26:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 219.09 Mbit/s

95th percentile per-packet one-way delay: 51.134 ms

Loss rate: 0.41%

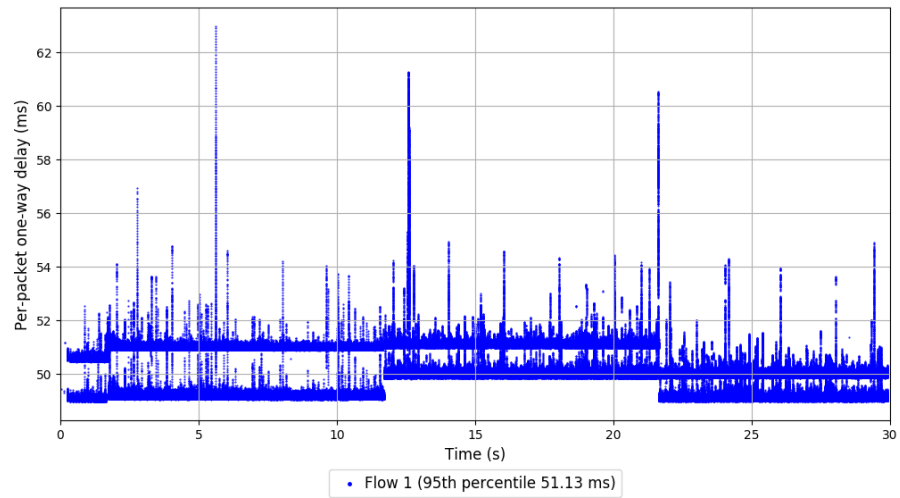
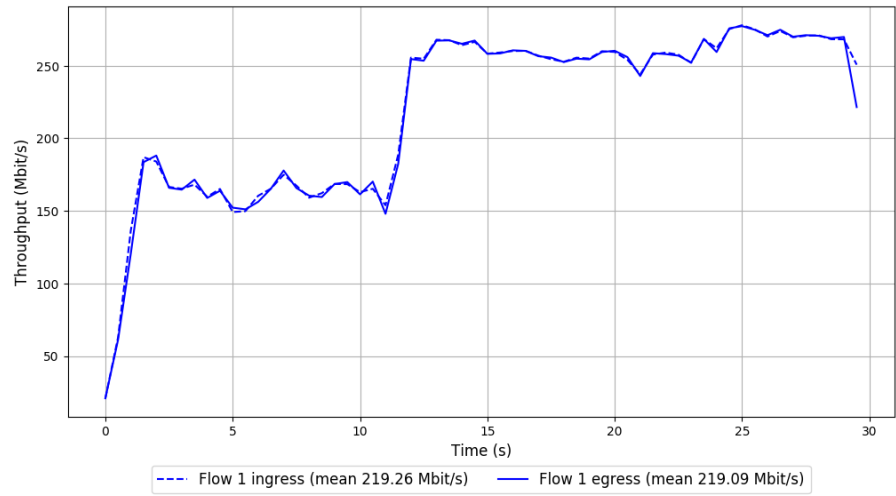
-- Flow 1:

Average throughput: 219.09 Mbit/s

95th percentile per-packet one-way delay: 51.134 ms

Loss rate: 0.41%

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

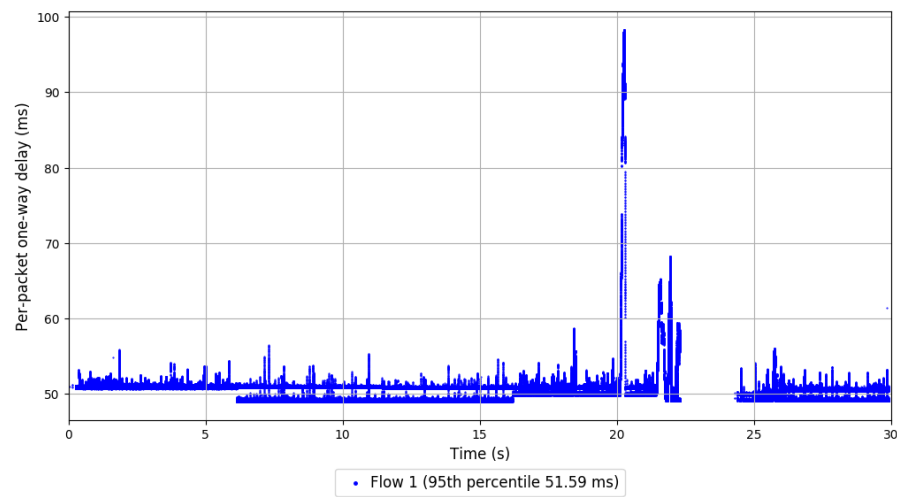
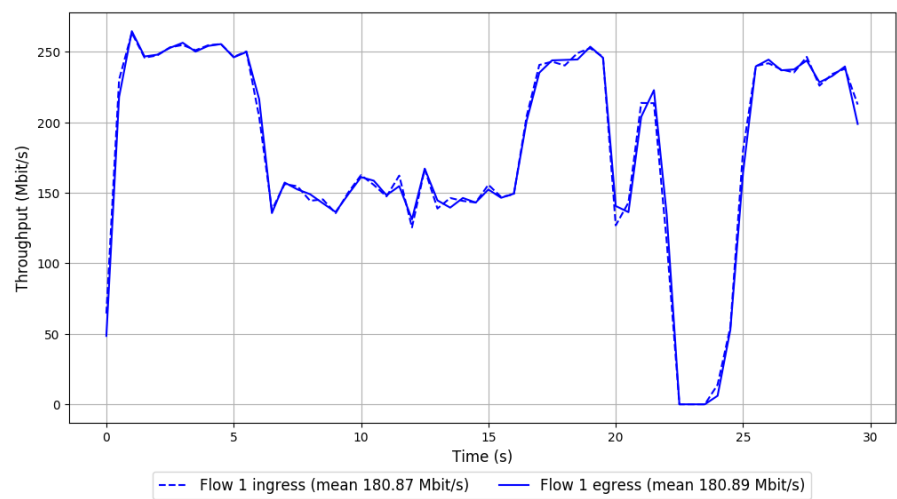


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-20 01:42:04
End at: 2018-02-20 01:42:34

# Below is generated by plot.py at 2018-02-20 06:26:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.89 Mbit/s
95th percentile per-packet one-way delay: 51.585 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 180.89 Mbit/s
95th percentile per-packet one-way delay: 51.585 ms
Loss rate: 0.33%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-20 01:56:53

End at: 2018-02-20 01:57:23

# Below is generated by plot.py at 2018-02-20 06:26:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 240.18 Mbit/s

95th percentile per-packet one-way delay: 51.010 ms

Loss rate: 0.25%

-- Flow 1:

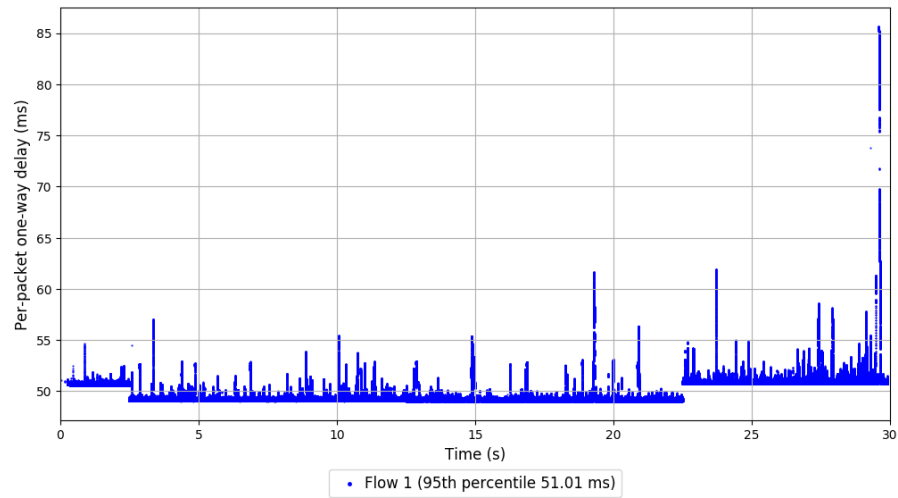
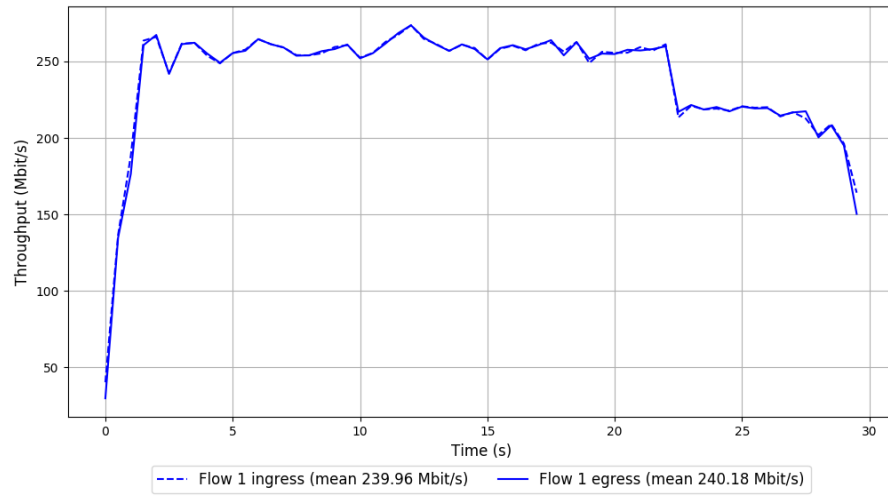
Average throughput: 240.18 Mbit/s

95th percentile per-packet one-way delay: 51.010 ms

Loss rate: 0.25%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-20 02:11:35

End at: 2018-02-20 02:12:05

# Below is generated by plot.py at 2018-02-20 06:26:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 228.45 Mbit/s

95th percentile per-packet one-way delay: 51.198 ms

Loss rate: 0.32%

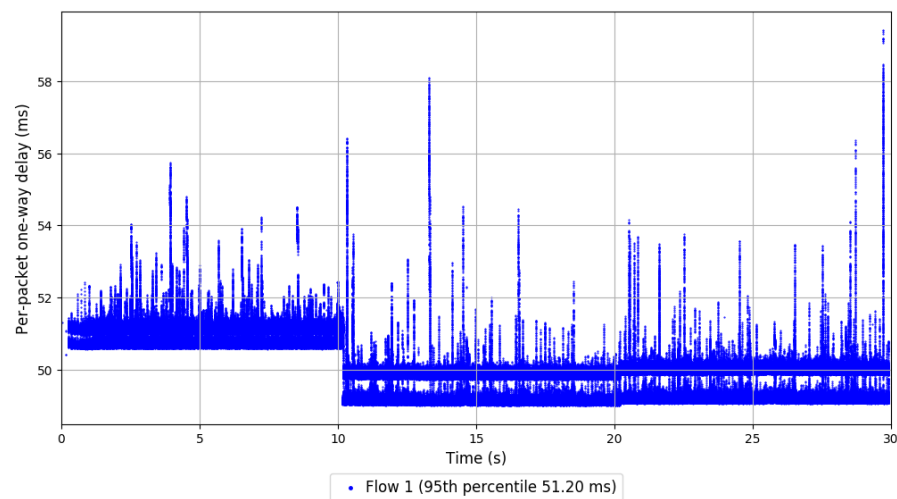
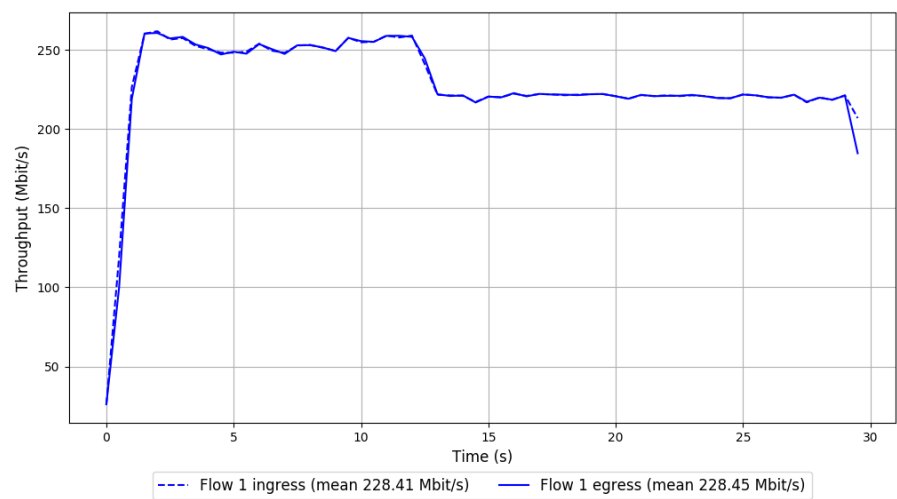
-- Flow 1:

Average throughput: 228.45 Mbit/s

95th percentile per-packet one-way delay: 51.198 ms

Loss rate: 0.32%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-20 02:26:27

End at: 2018-02-20 02:26:57

# Below is generated by plot.py at 2018-02-20 06:28:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 143.50 Mbit/s

95th percentile per-packet one-way delay: 51.212 ms

Loss rate: 0.21%

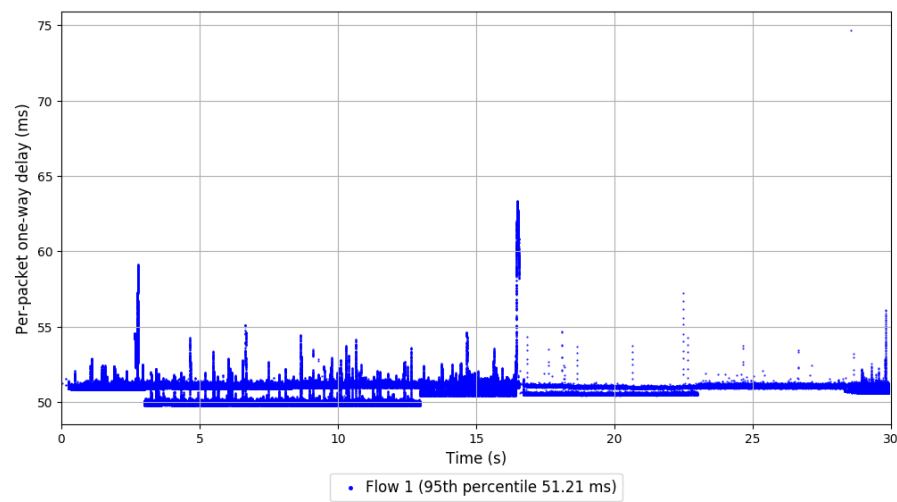
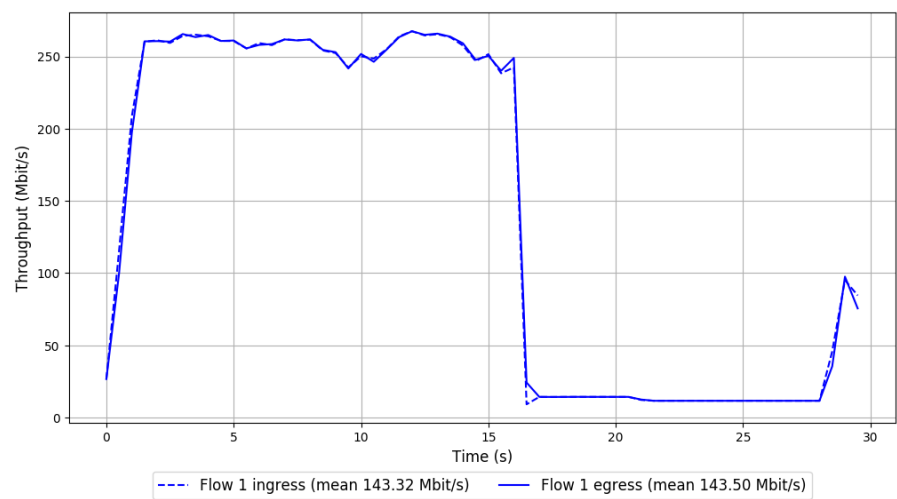
-- Flow 1:

Average throughput: 143.50 Mbit/s

95th percentile per-packet one-way delay: 51.212 ms

Loss rate: 0.21%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-20 02:41:04

End at: 2018-02-20 02:41:34

# Below is generated by plot.py at 2018-02-20 06:32:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 242.71 Mbit/s

95th percentile per-packet one-way delay: 51.191 ms

Loss rate: 0.31%

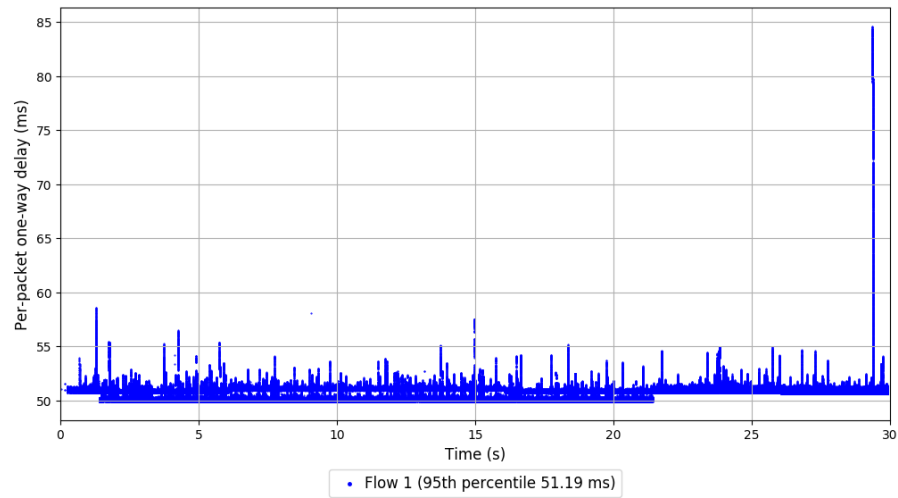
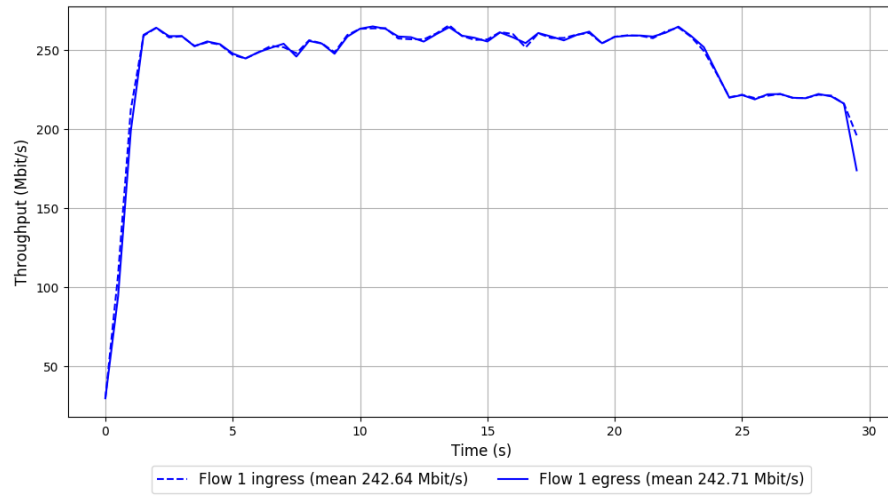
-- Flow 1:

Average throughput: 242.71 Mbit/s

95th percentile per-packet one-way delay: 51.191 ms

Loss rate: 0.31%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-20 02:55:44

End at: 2018-02-20 02:56:14

# Below is generated by plot.py at 2018-02-20 06:33:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 245.59 Mbit/s

95th percentile per-packet one-way delay: 51.302 ms

Loss rate: 0.34%

-- Flow 1:

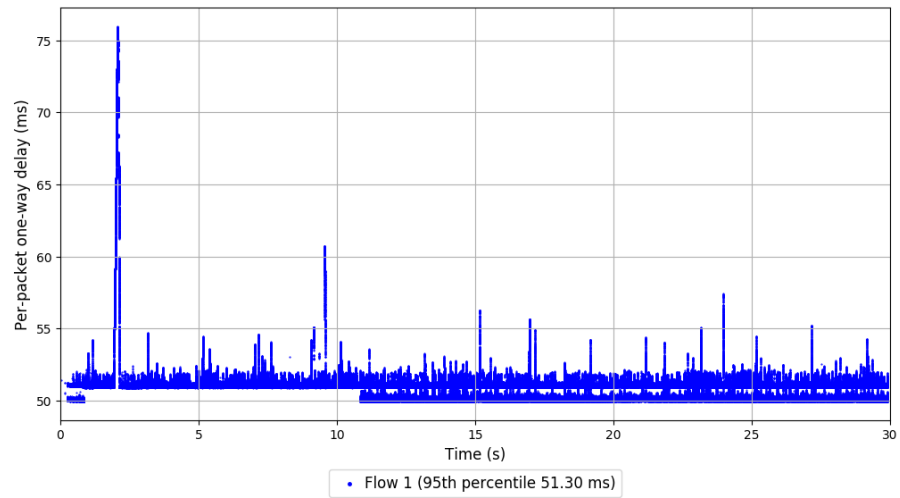
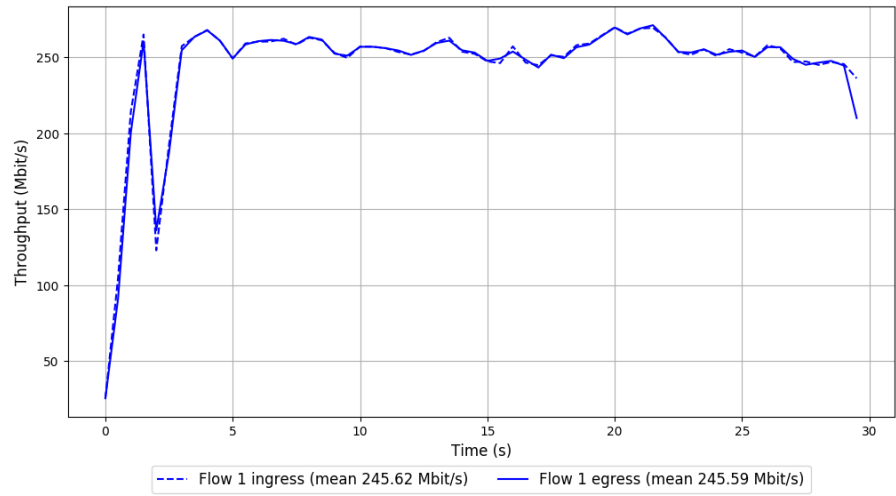
Average throughput: 245.59 Mbit/s

95th percentile per-packet one-way delay: 51.302 ms

Loss rate: 0.34%



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

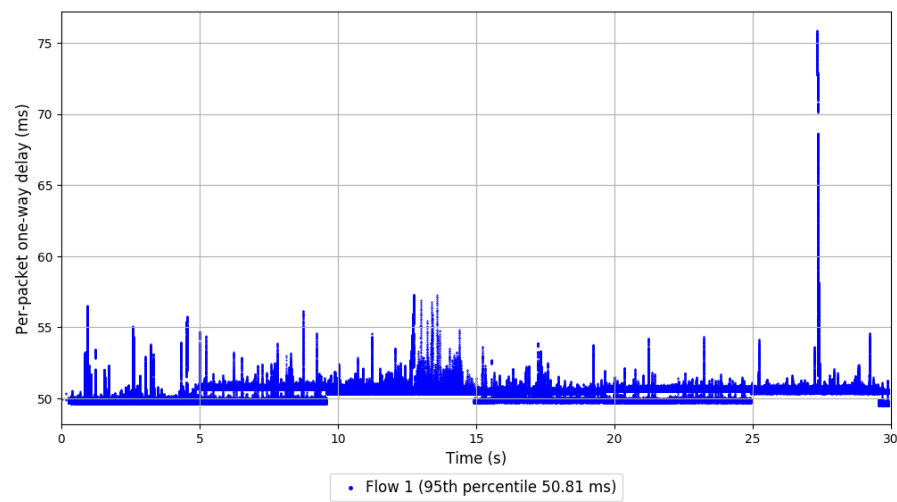
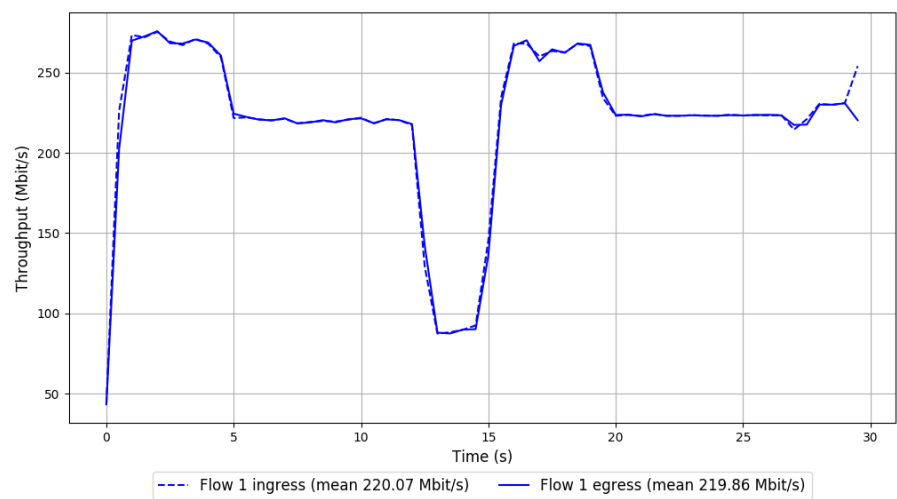


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-20 03:10:30
End at: 2018-02-20 03:11:00

# Below is generated by plot.py at 2018-02-20 06:33:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.86 Mbit/s
95th percentile per-packet one-way delay: 50.813 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 219.86 Mbit/s
95th percentile per-packet one-way delay: 50.813 ms
Loss rate: 0.43%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-20 00:58:35

End at: 2018-02-20 00:59:05

# Below is generated by plot.py at 2018-02-20 06:33:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.57 Mbit/s

95th percentile per-packet one-way delay: 51.670 ms

Loss rate: 0.43%

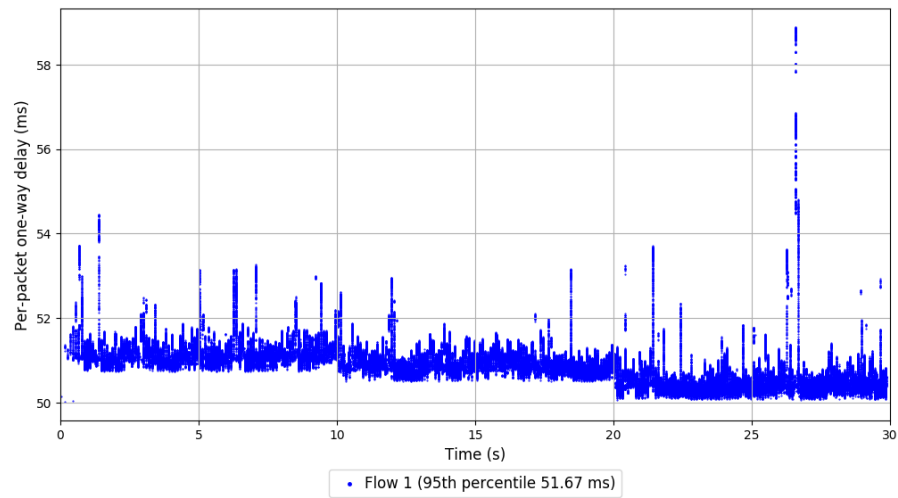
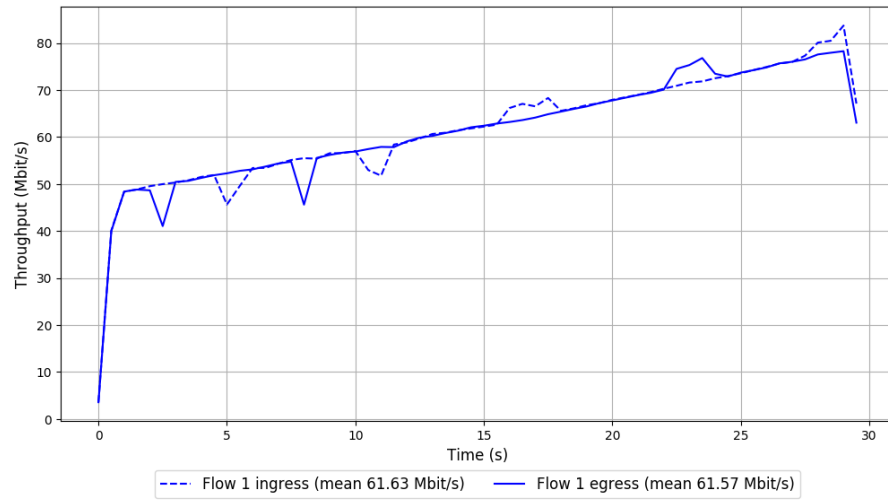
-- Flow 1:

Average throughput: 61.57 Mbit/s

95th percentile per-packet one-way delay: 51.670 ms

Loss rate: 0.43%

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



Run 2: Statistics of TCP Vegas

Start at: 2018-02-20 01:13:28

End at: 2018-02-20 01:13:58

# Below is generated by plot.py at 2018-02-20 06:33:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 122.94 Mbit/s

95th percentile per-packet one-way delay: 57.207 ms

Loss rate: 0.31%

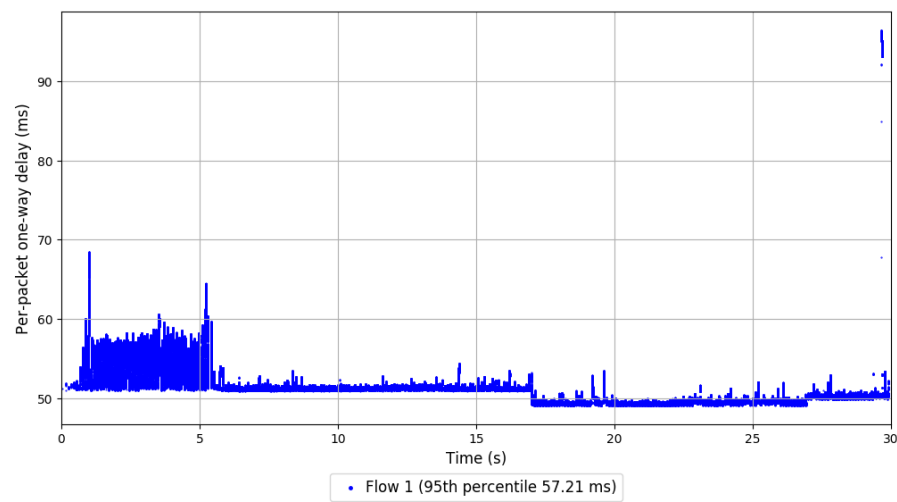
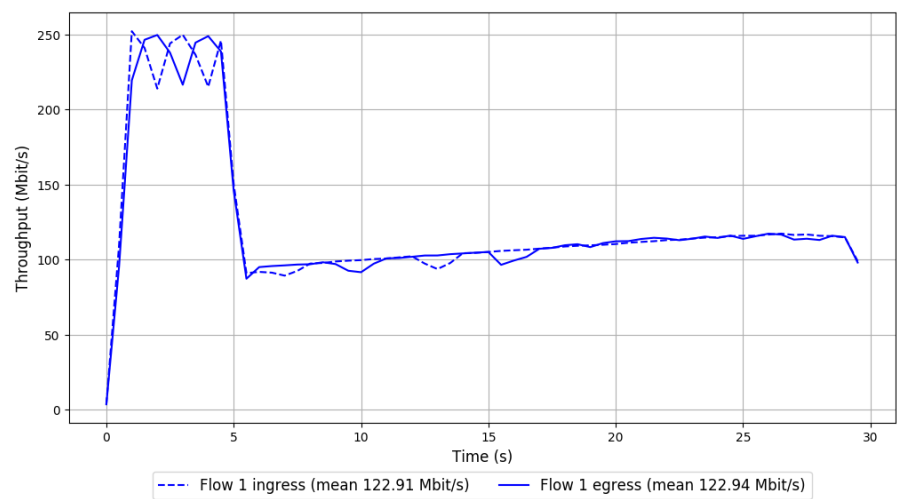
-- Flow 1:

Average throughput: 122.94 Mbit/s

95th percentile per-packet one-way delay: 57.207 ms

Loss rate: 0.31%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

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

End at: 2018-02-20 01:28:49

# Below is generated by plot.py at 2018-02-20 06:33:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.46 Mbit/s

95th percentile per-packet one-way delay: 51.147 ms

Loss rate: 0.27%

-- Flow 1:

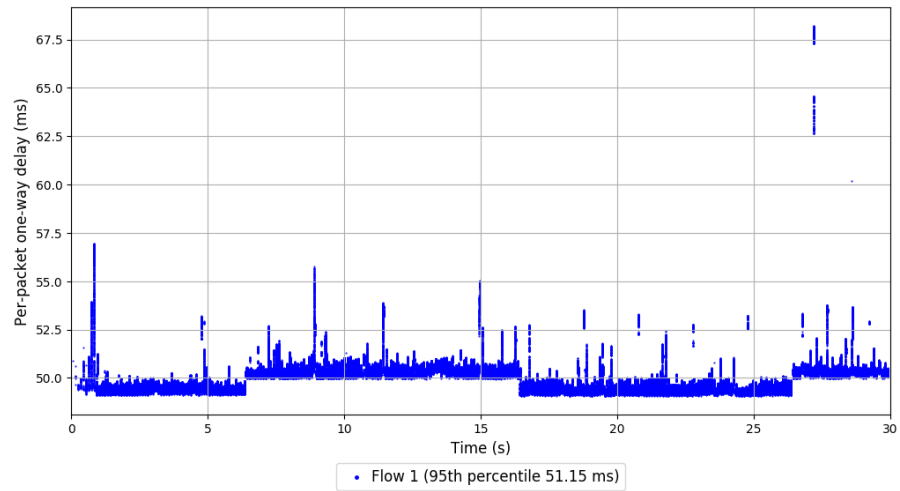
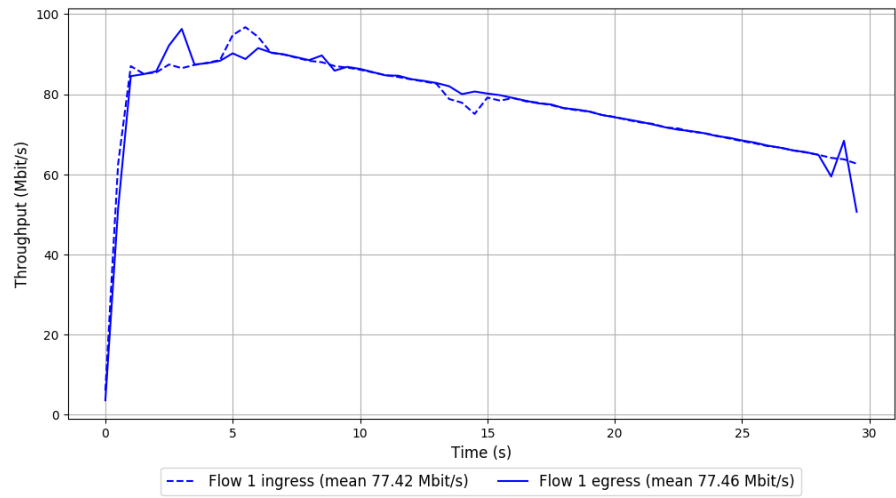
Average throughput: 77.46 Mbit/s

95th percentile per-packet one-way delay: 51.147 ms

Loss rate: 0.27%



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



Run 4: Statistics of TCP Vegas

Start at: 2018-02-20 01:42:55

End at: 2018-02-20 01:43:25

# Below is generated by plot.py at 2018-02-20 06:33:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 156.77 Mbit/s

95th percentile per-packet one-way delay: 51.841 ms

Loss rate: 0.38%

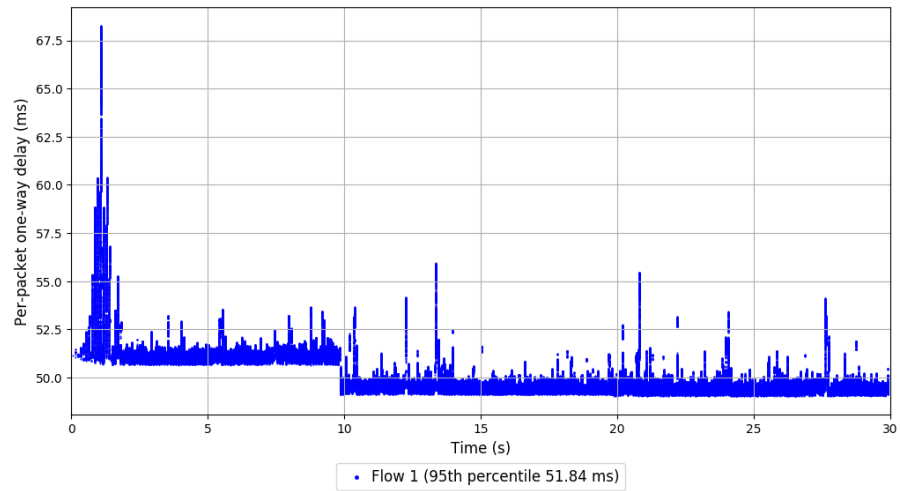
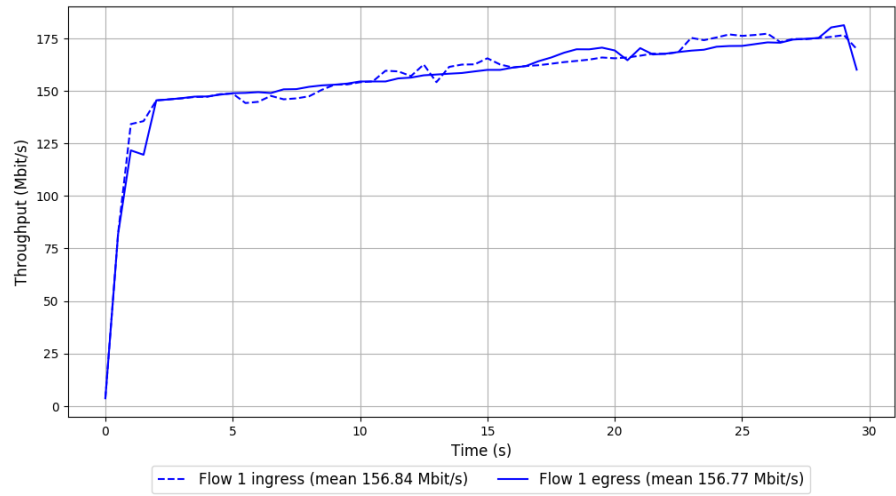
-- Flow 1:

Average throughput: 156.77 Mbit/s

95th percentile per-packet one-way delay: 51.841 ms

Loss rate: 0.38%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-02-20 01:57:49

End at: 2018-02-20 01:58:19

# Below is generated by plot.py at 2018-02-20 06:33:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.59 Mbit/s

95th percentile per-packet one-way delay: 52.113 ms

Loss rate: 0.38%

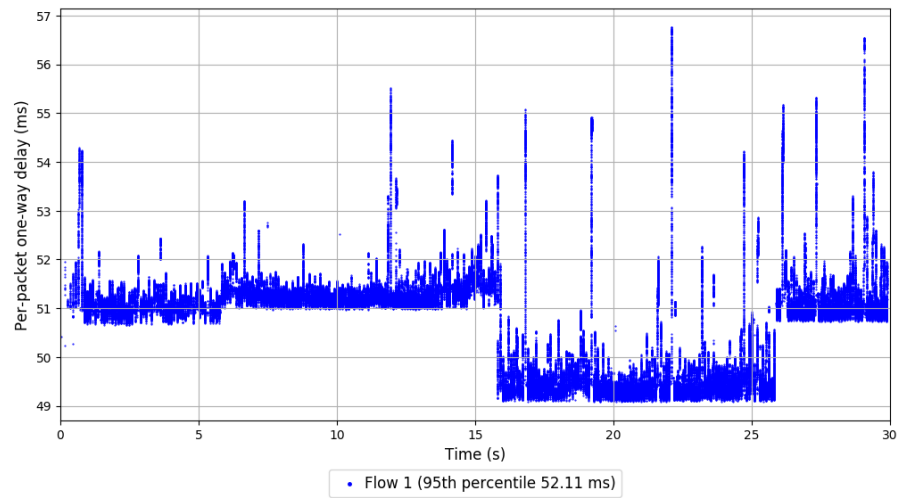
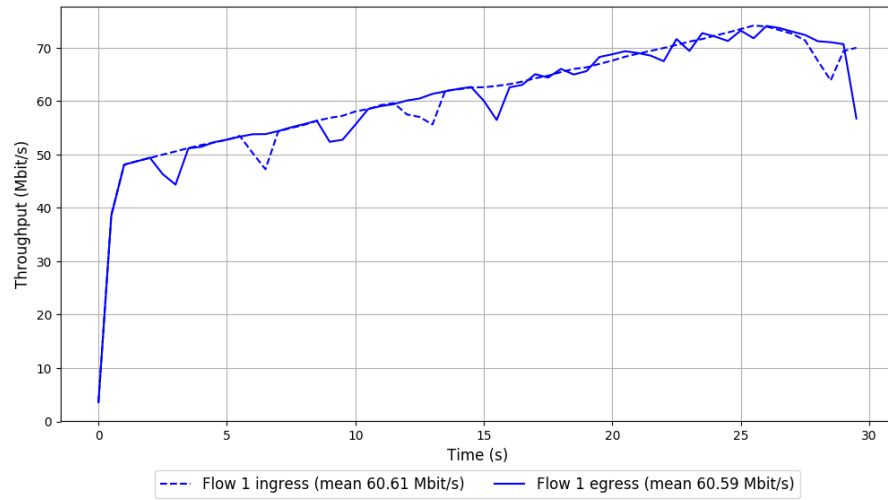
-- Flow 1:

Average throughput: 60.59 Mbit/s

95th percentile per-packet one-way delay: 52.113 ms

Loss rate: 0.38%

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



Run 6: Statistics of TCP Vegas

Start at: 2018-02-20 02:12:31

End at: 2018-02-20 02:13:01

# Below is generated by plot.py at 2018-02-20 06:33:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.38 Mbit/s

95th percentile per-packet one-way delay: 51.938 ms

Loss rate: 0.25%

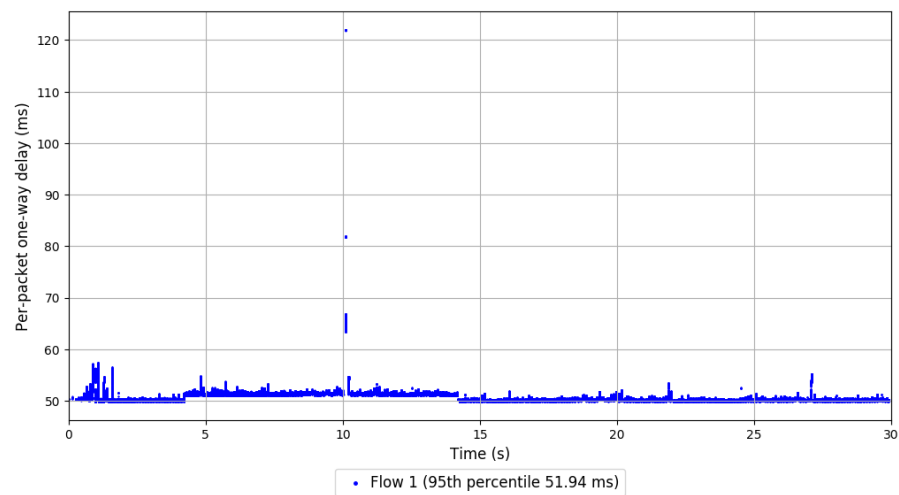
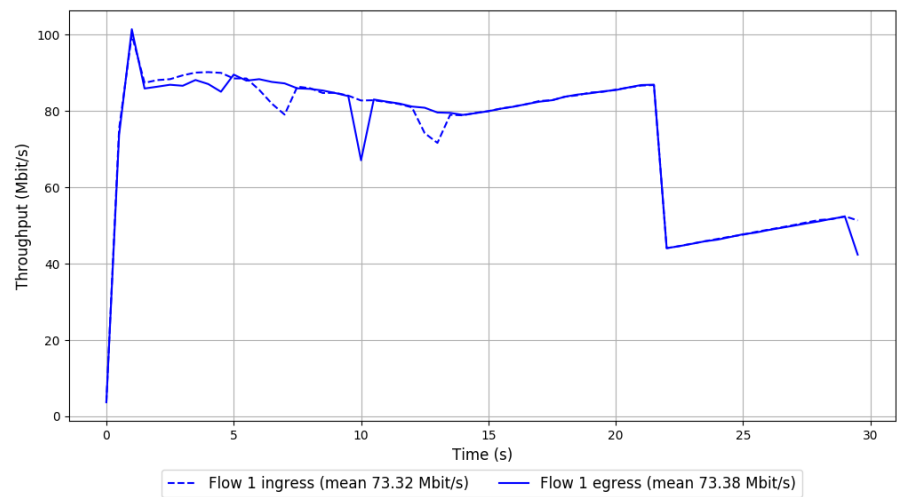
-- Flow 1:

Average throughput: 73.38 Mbit/s

95th percentile per-packet one-way delay: 51.938 ms

Loss rate: 0.25%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-20 02:27:16

End at: 2018-02-20 02:27:46

# Below is generated by plot.py at 2018-02-20 06:33:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 147.70 Mbit/s

95th percentile per-packet one-way delay: 51.503 ms

Loss rate: 0.30%

-- Flow 1:

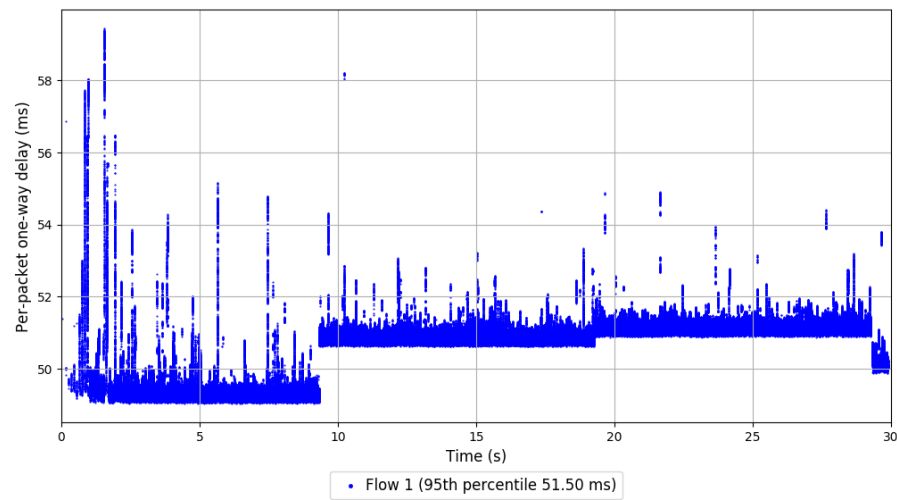
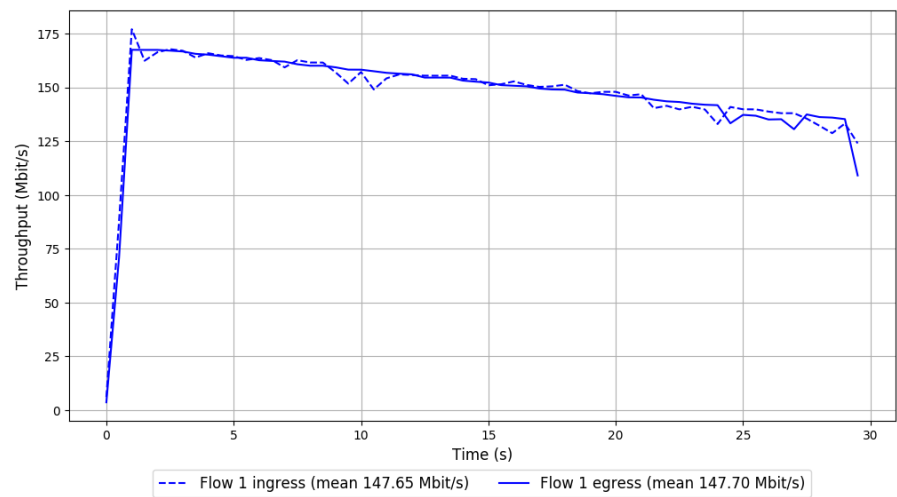
Average throughput: 147.70 Mbit/s

95th percentile per-packet one-way delay: 51.503 ms

Loss rate: 0.30%



Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-20 02:42:01

End at: 2018-02-20 02:42:31

# Below is generated by plot.py at 2018-02-20 06:33:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.79 Mbit/s

95th percentile per-packet one-way delay: 51.681 ms

Loss rate: 0.26%

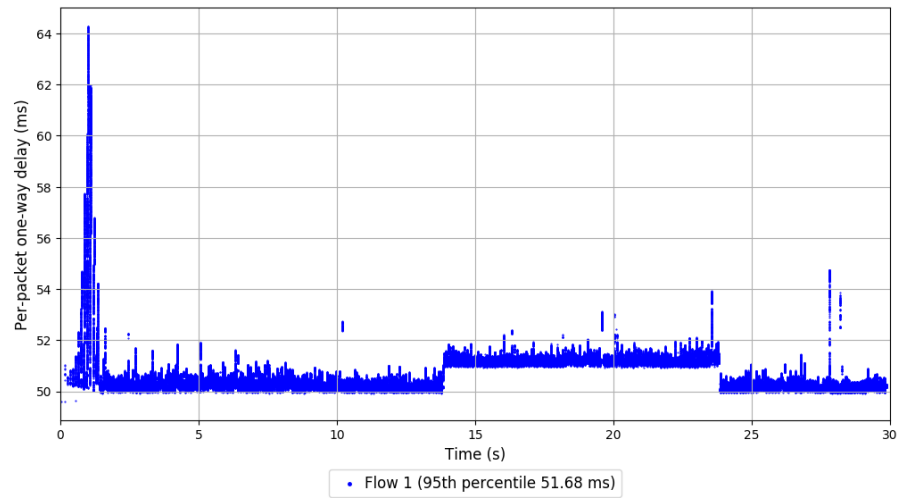
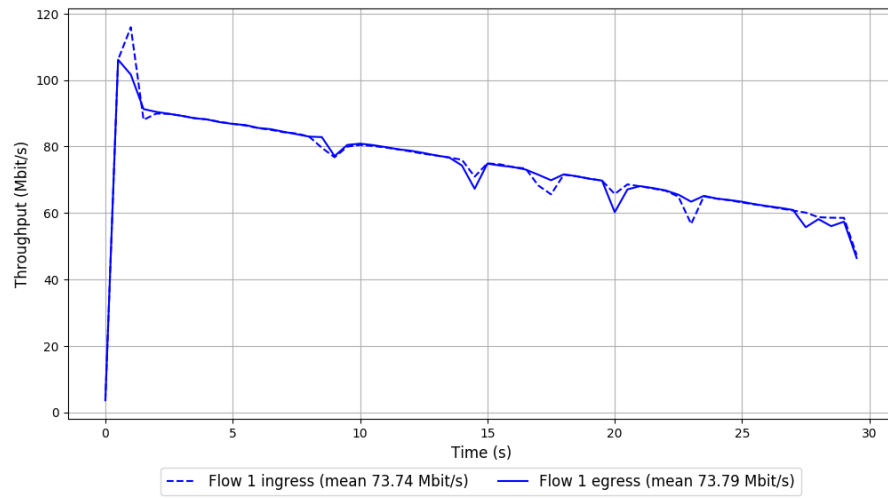
-- Flow 1:

Average throughput: 73.79 Mbit/s

95th percentile per-packet one-way delay: 51.681 ms

Loss rate: 0.26%

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



Run 9: Statistics of TCP Vegas

Start at: 2018-02-20 02:56:42

End at: 2018-02-20 02:57:12

# Below is generated by plot.py at 2018-02-20 06:33:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 196.64 Mbit/s

95th percentile per-packet one-way delay: 57.869 ms

Loss rate: 0.17%

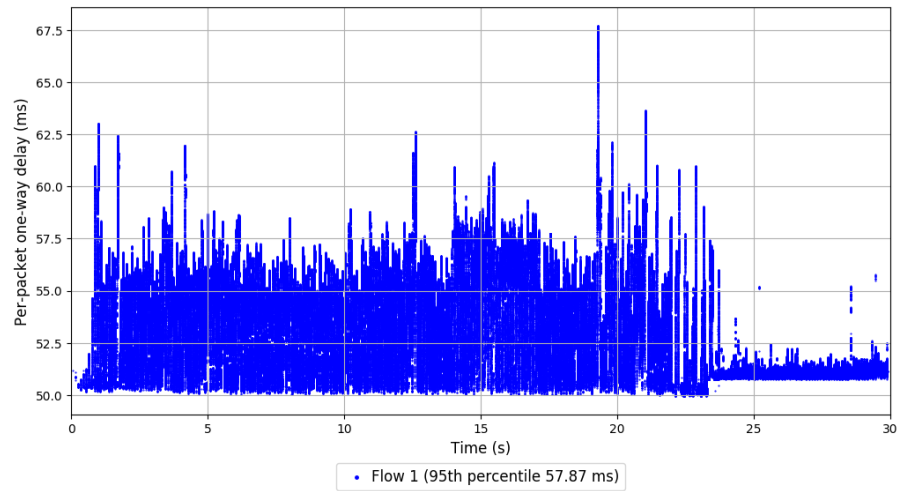
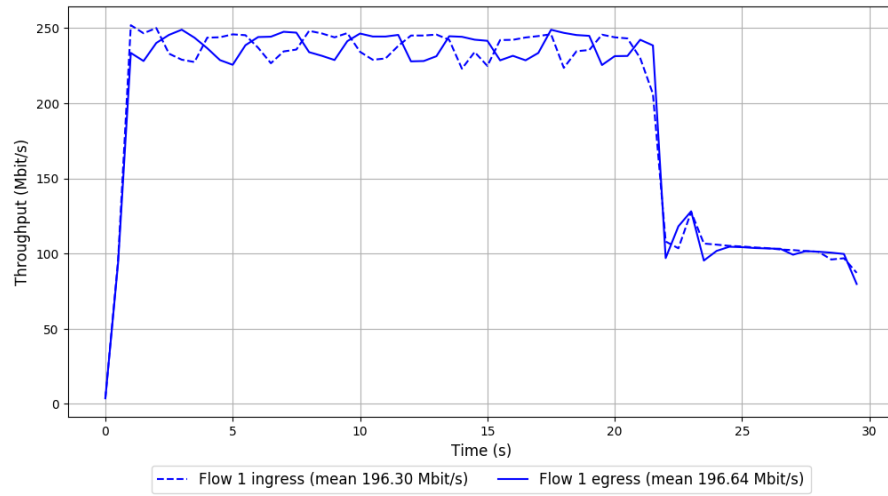
-- Flow 1:

Average throughput: 196.64 Mbit/s

95th percentile per-packet one-way delay: 57.869 ms

Loss rate: 0.17%

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



Run 10: Statistics of TCP Vegas

Start at: 2018-02-20 03:11:26

End at: 2018-02-20 03:11:56

# Below is generated by plot.py at 2018-02-20 06:33:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 234.24 Mbit/s

95th percentile per-packet one-way delay: 58.026 ms

Loss rate: 0.34%

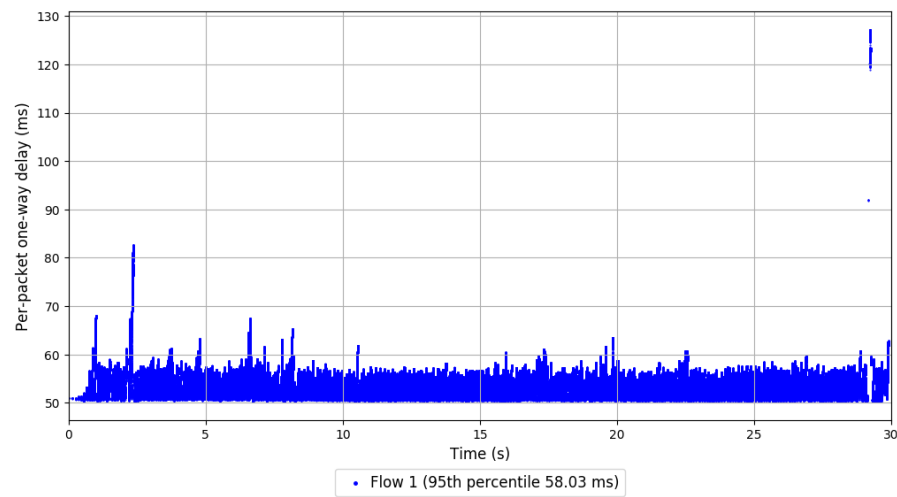
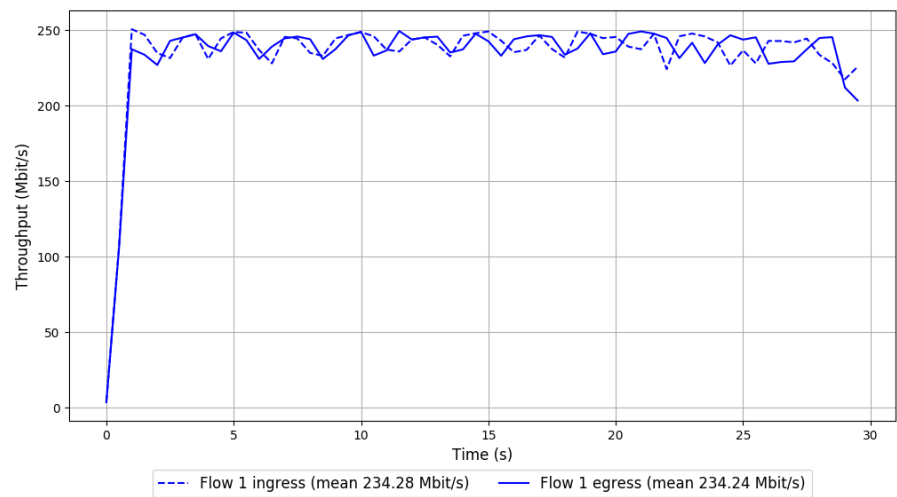
-- Flow 1:

Average throughput: 234.24 Mbit/s

95th percentile per-packet one-way delay: 58.026 ms

Loss rate: 0.34%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-20 00:55:41

End at: 2018-02-20 00:56:11

# Below is generated by plot.py at 2018-02-20 06:34:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 286.91 Mbit/s

95th percentile per-packet one-way delay: 94.131 ms

Loss rate: 1.30%

-- Flow 1:

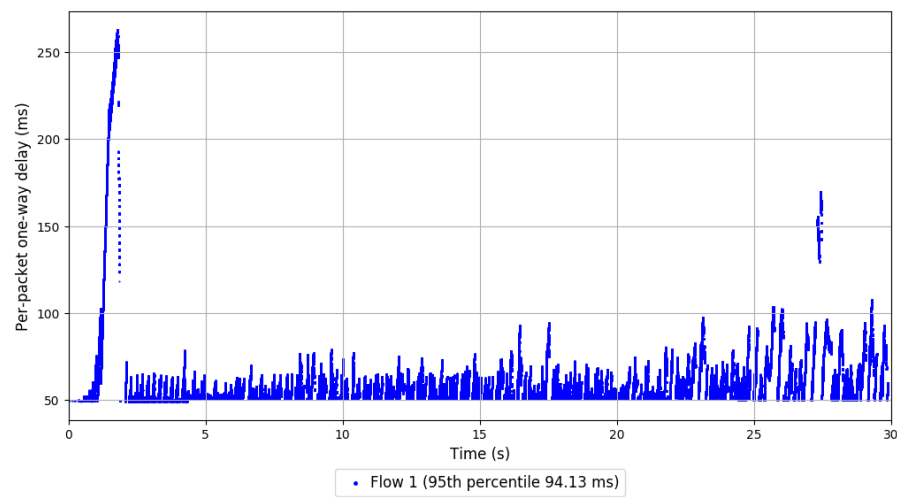
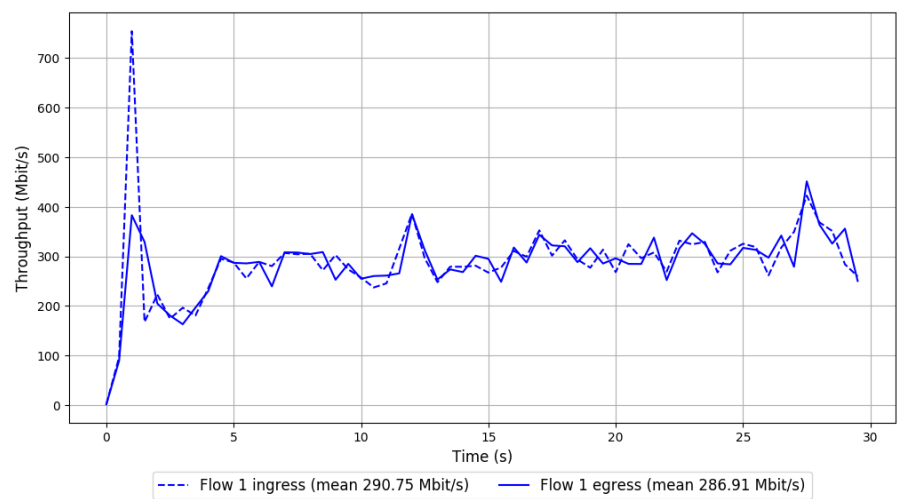
Average throughput: 286.91 Mbit/s

95th percentile per-packet one-way delay: 94.131 ms

Loss rate: 1.30%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-20 01:10:31

End at: 2018-02-20 01:11:01

# Below is generated by plot.py at 2018-02-20 06:34:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 311.37 Mbit/s

95th percentile per-packet one-way delay: 76.074 ms

Loss rate: 0.59%

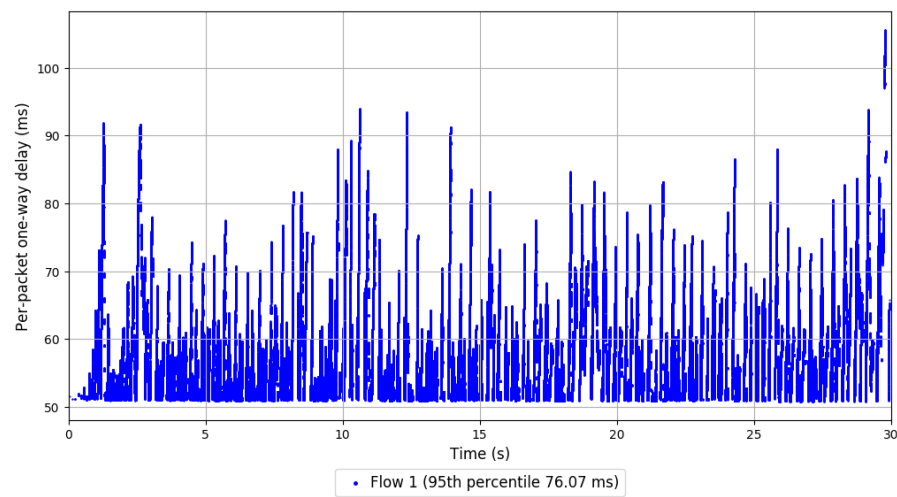
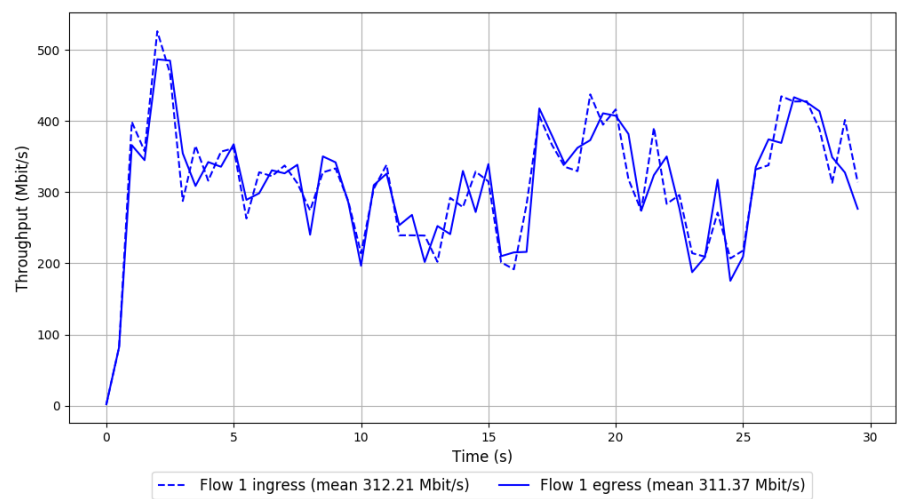
-- Flow 1:

Average throughput: 311.37 Mbit/s

95th percentile per-packet one-way delay: 76.074 ms

Loss rate: 0.59%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-20 01:25:26

End at: 2018-02-20 01:25:57

# Below is generated by plot.py at 2018-02-20 06:35:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 281.43 Mbit/s

95th percentile per-packet one-way delay: 103.046 ms

Loss rate: 0.87%

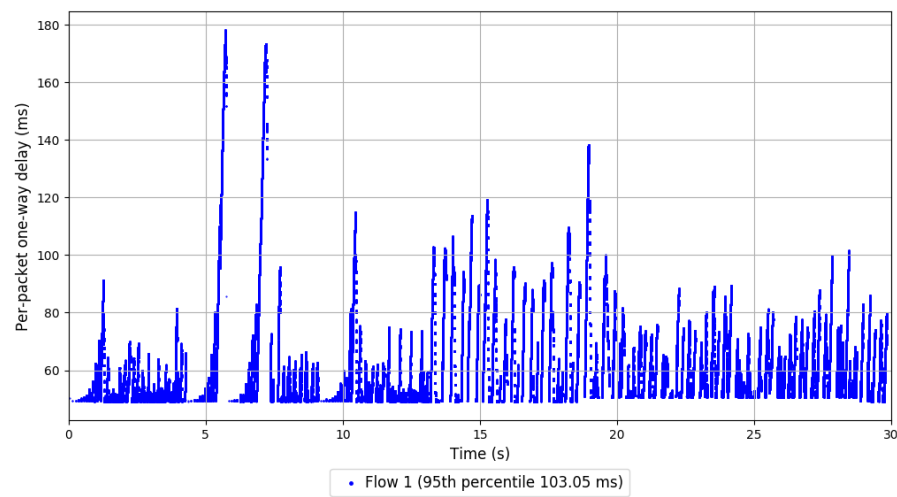
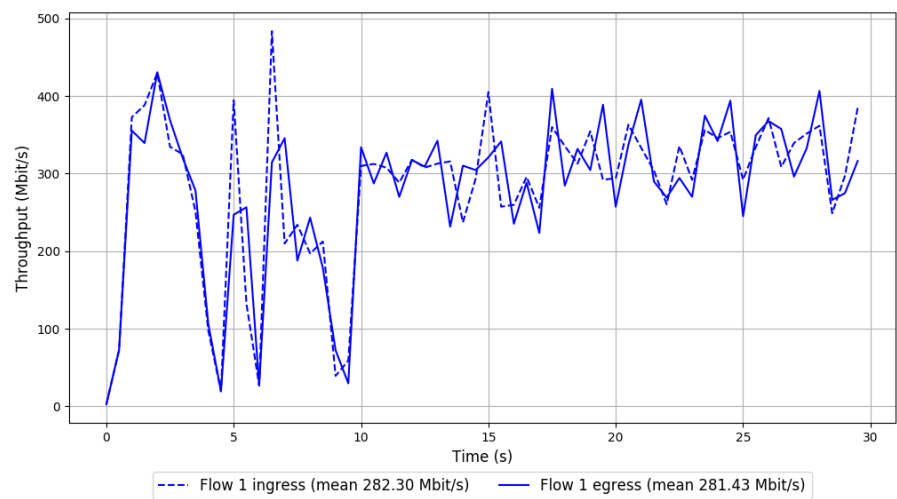
-- Flow 1:

Average throughput: 281.43 Mbit/s

95th percentile per-packet one-way delay: 103.046 ms

Loss rate: 0.87%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-20 01:40:08

End at: 2018-02-20 01:40:38

# Below is generated by plot.py at 2018-02-20 06:36:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 274.34 Mbit/s

95th percentile per-packet one-way delay: 94.926 ms

Loss rate: 0.62%

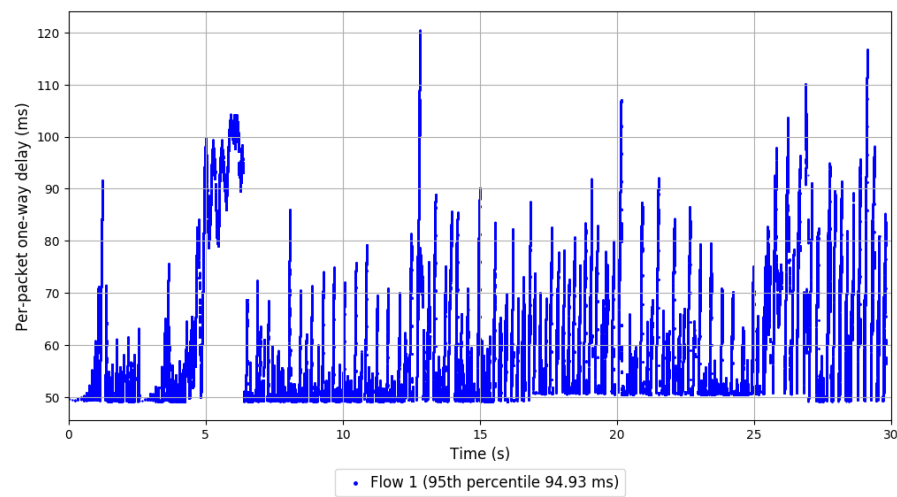
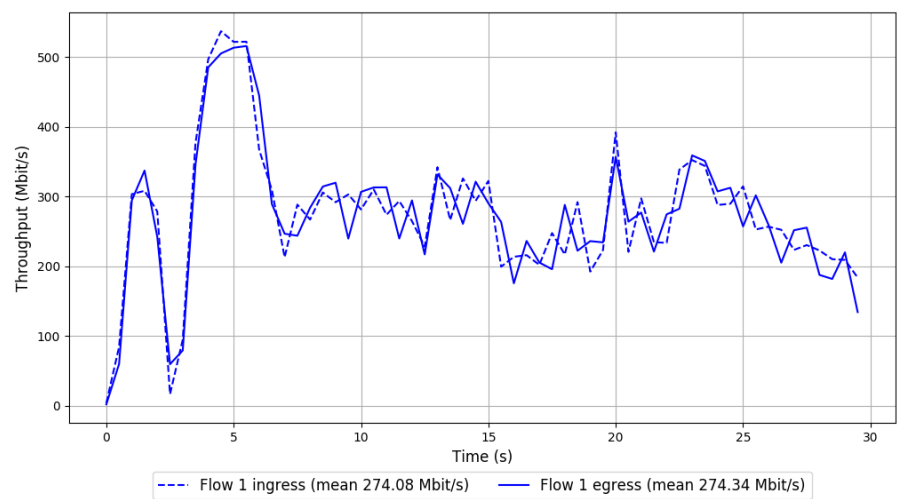
-- Flow 1:

Average throughput: 274.34 Mbit/s

95th percentile per-packet one-way delay: 94.926 ms

Loss rate: 0.62%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-20 01:54:57

End at: 2018-02-20 01:55:27

# Below is generated by plot.py at 2018-02-20 06:36:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 260.99 Mbit/s

95th percentile per-packet one-way delay: 161.084 ms

Loss rate: 1.45%

-- Flow 1:

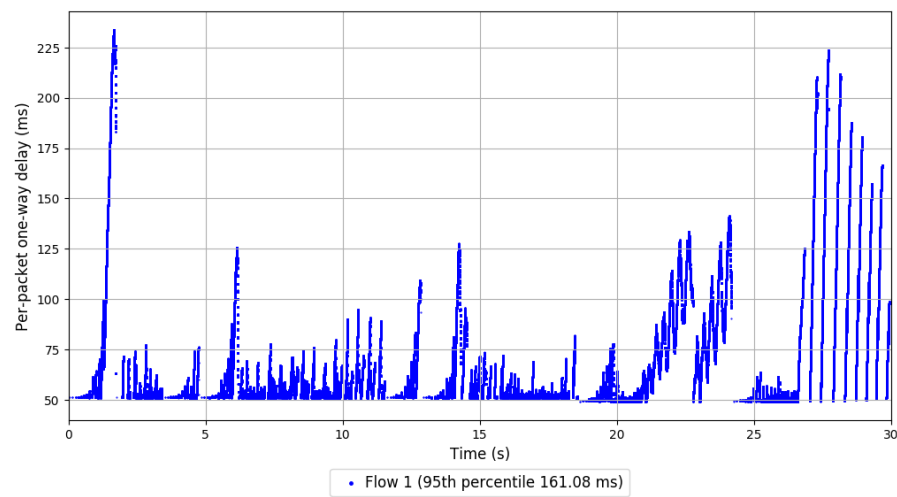
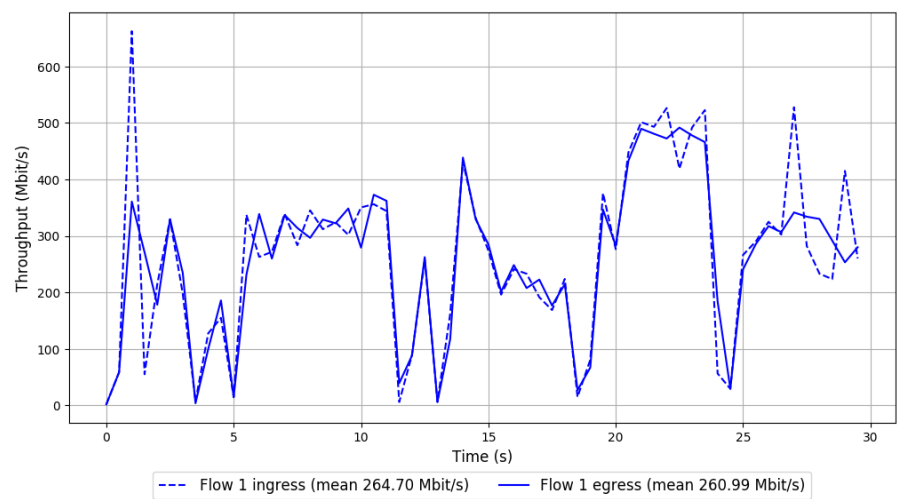
Average throughput: 260.99 Mbit/s

95th percentile per-packet one-way delay: 161.084 ms

Loss rate: 1.45%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-20 02:09:45

End at: 2018-02-20 02:10:15

# Below is generated by plot.py at 2018-02-20 06:36:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 233.56 Mbit/s

95th percentile per-packet one-way delay: 111.165 ms

Loss rate: 0.16%

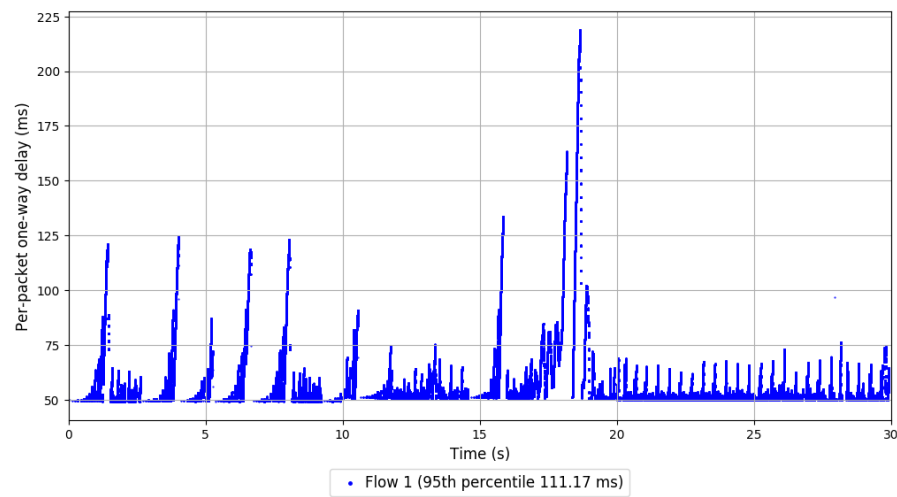
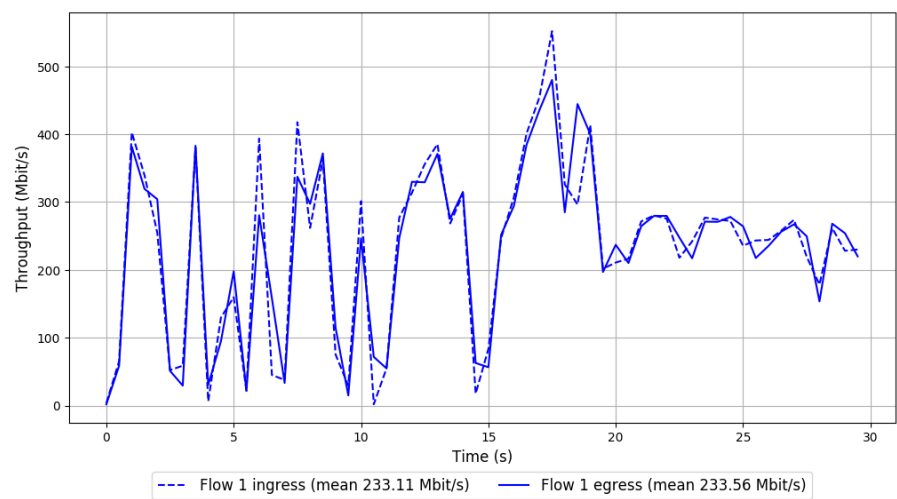
-- Flow 1:

Average throughput: 233.56 Mbit/s

95th percentile per-packet one-way delay: 111.165 ms

Loss rate: 0.16%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-20 02:24:32

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

# Below is generated by plot.py at 2018-02-20 06:37:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 253.34 Mbit/s

95th percentile per-packet one-way delay: 100.210 ms

Loss rate: 2.77%

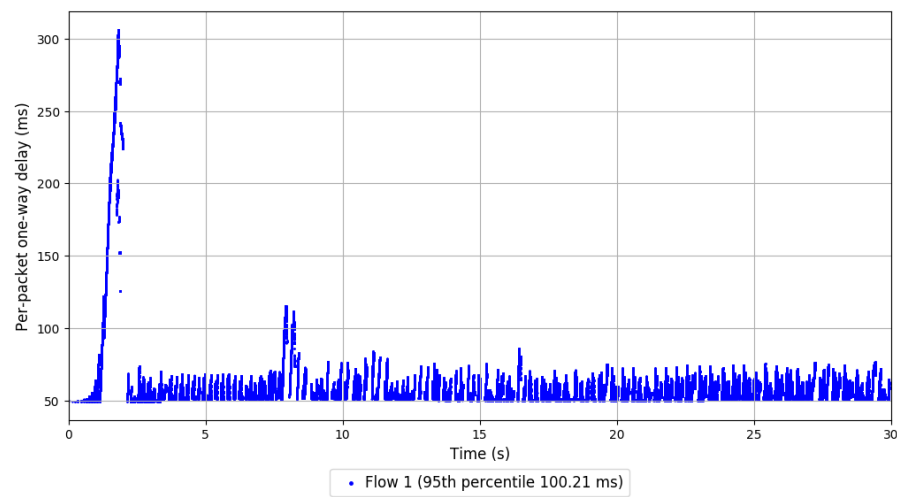
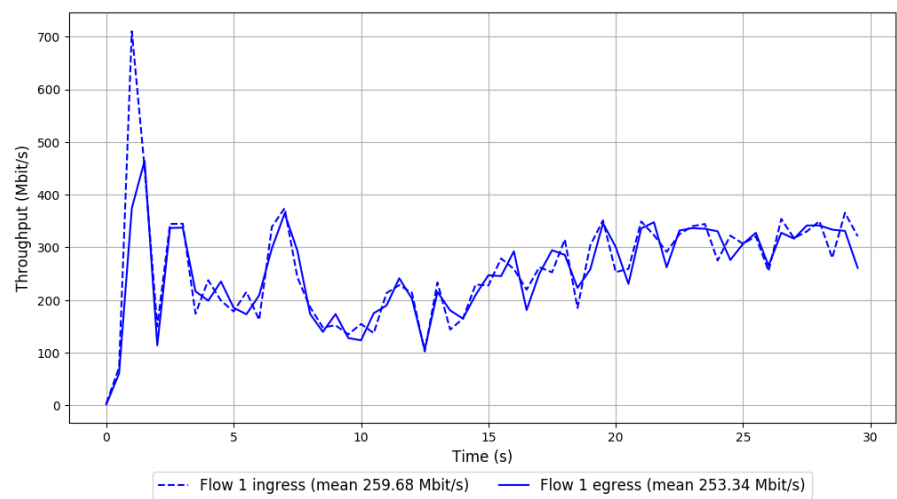
-- Flow 1:

Average throughput: 253.34 Mbit/s

95th percentile per-packet one-way delay: 100.210 ms

Loss rate: 2.77%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-20 02:39:07

End at: 2018-02-20 02:39:37

# Below is generated by plot.py at 2018-02-20 06:38:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 282.04 Mbit/s

95th percentile per-packet one-way delay: 152.060 ms

Loss rate: 0.80%

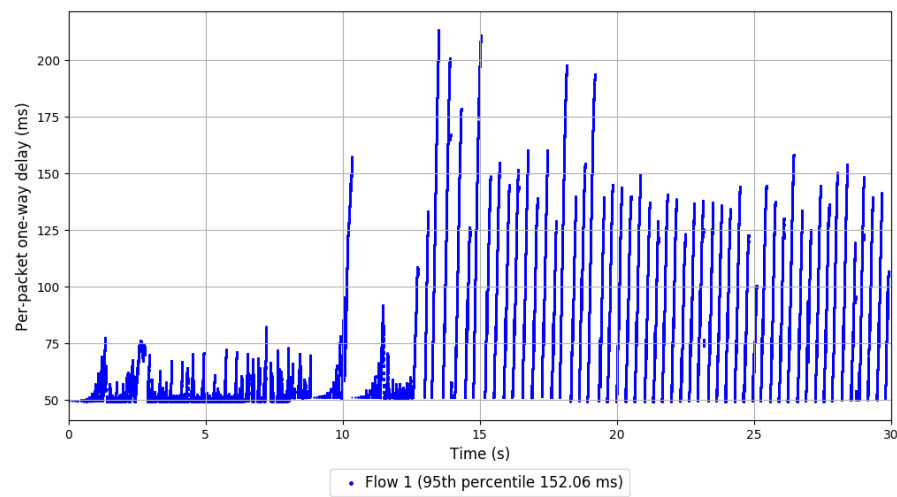
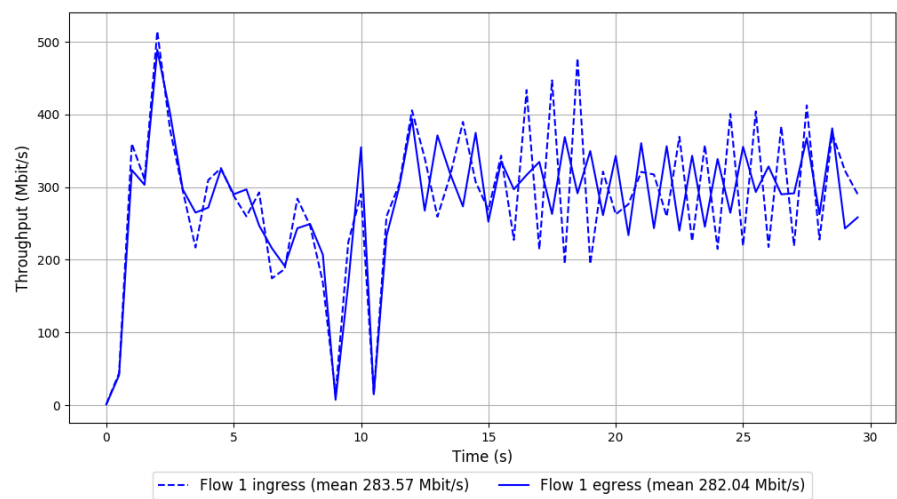
-- Flow 1:

Average throughput: 282.04 Mbit/s

95th percentile per-packet one-way delay: 152.060 ms

Loss rate: 0.80%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-20 02:53:49

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

# Below is generated by plot.py at 2018-02-20 06:39:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 294.25 Mbit/s

95th percentile per-packet one-way delay: 77.191 ms

Loss rate: 0.21%

-- Flow 1:

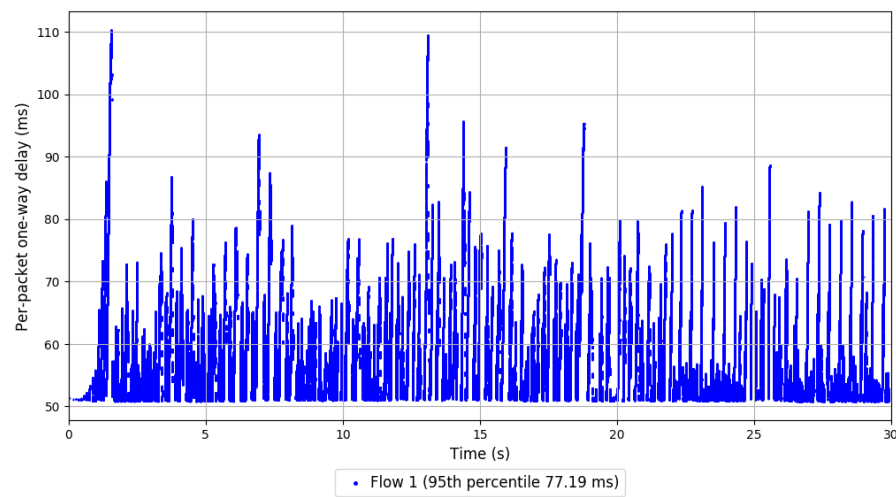
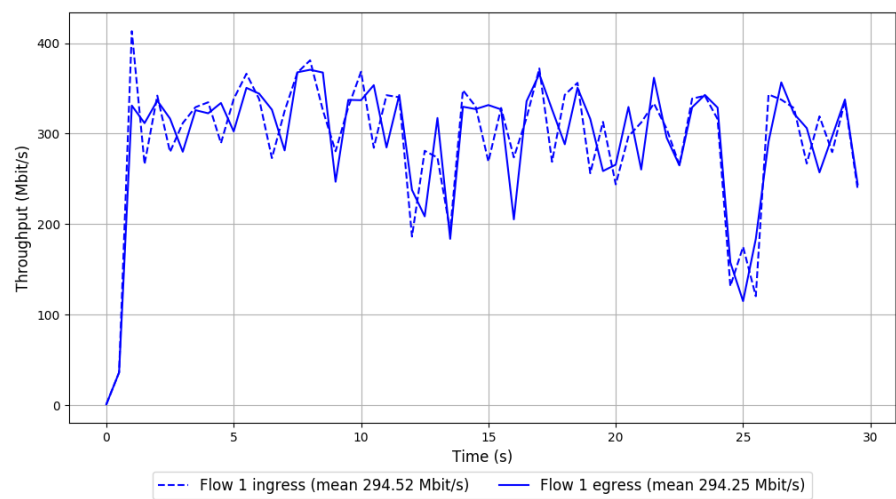
Average throughput: 294.25 Mbit/s

95th percentile per-packet one-way delay: 77.191 ms

Loss rate: 0.21%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-20 03:08:37

End at: 2018-02-20 03:09:07

# Below is generated by plot.py at 2018-02-20 06:39:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 236.44 Mbit/s

95th percentile per-packet one-way delay: 152.703 ms

Loss rate: 0.46%

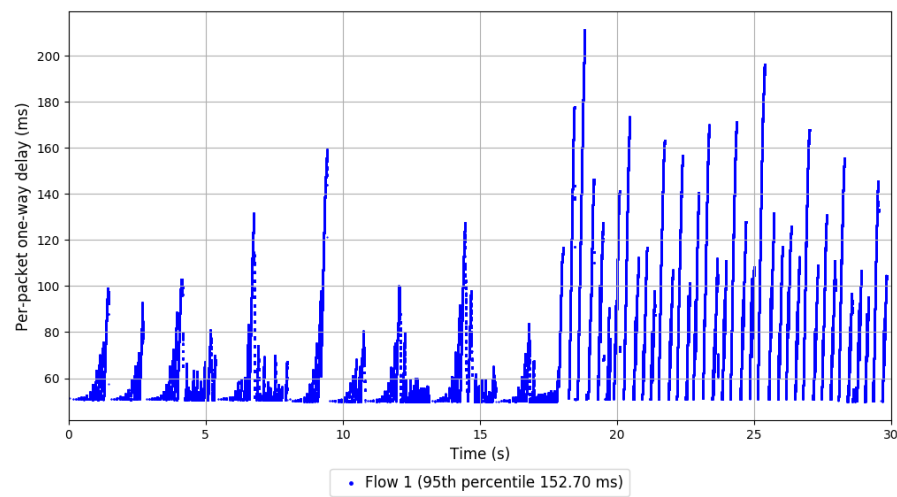
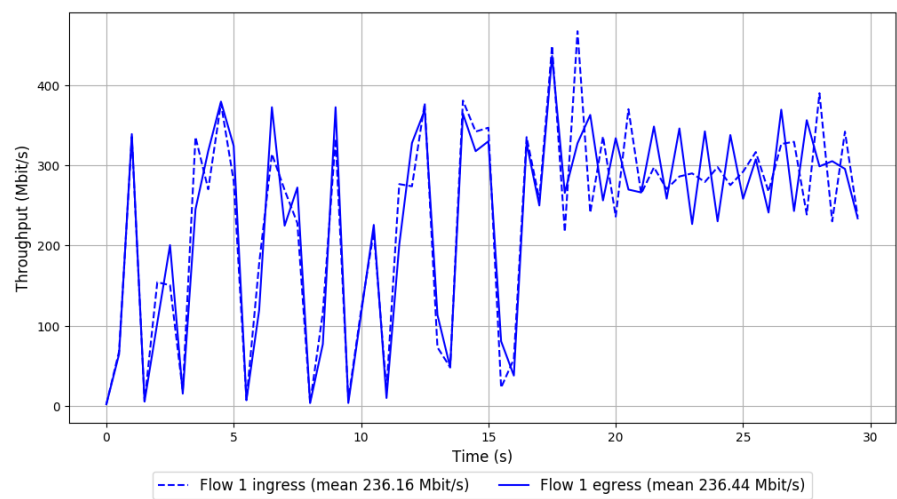
-- Flow 1:

Average throughput: 236.44 Mbit/s

95th percentile per-packet one-way delay: 152.703 ms

Loss rate: 0.46%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-20 01:00:36

End at: 2018-02-20 01:01:06

# Below is generated by plot.py at 2018-02-20 06:39:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.74 Mbit/s

95th percentile per-packet one-way delay: 50.582 ms

Loss rate: 0.20%

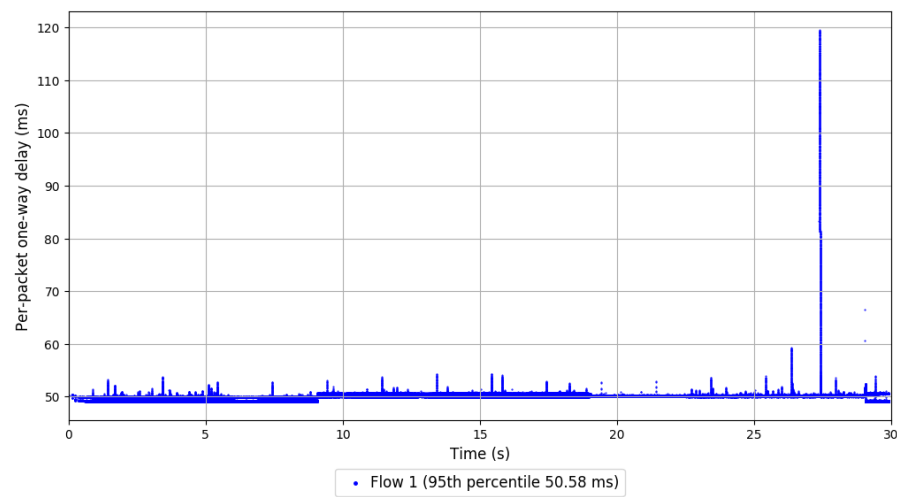
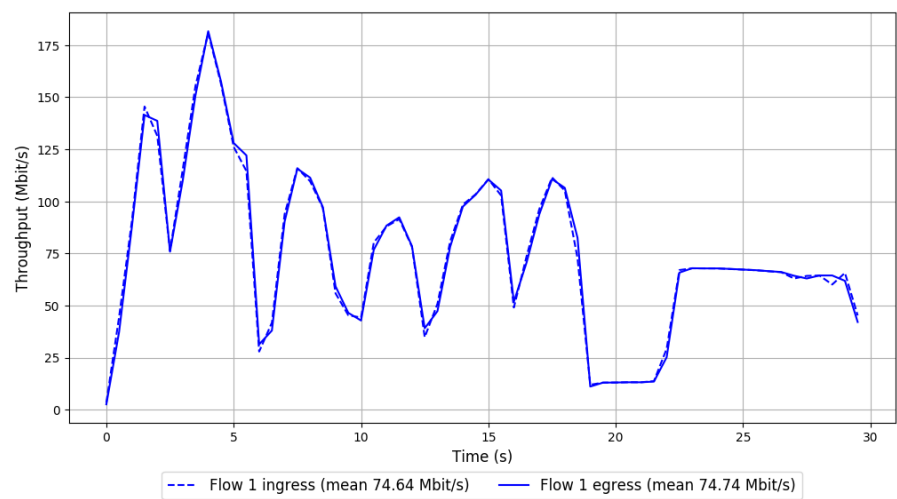
-- Flow 1:

Average throughput: 74.74 Mbit/s

95th percentile per-packet one-way delay: 50.582 ms

Loss rate: 0.20%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-20 01:15:35

End at: 2018-02-20 01:16:05

# Below is generated by plot.py at 2018-02-20 06:39:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.31 Mbit/s

95th percentile per-packet one-way delay: 50.893 ms

Loss rate: 0.10%

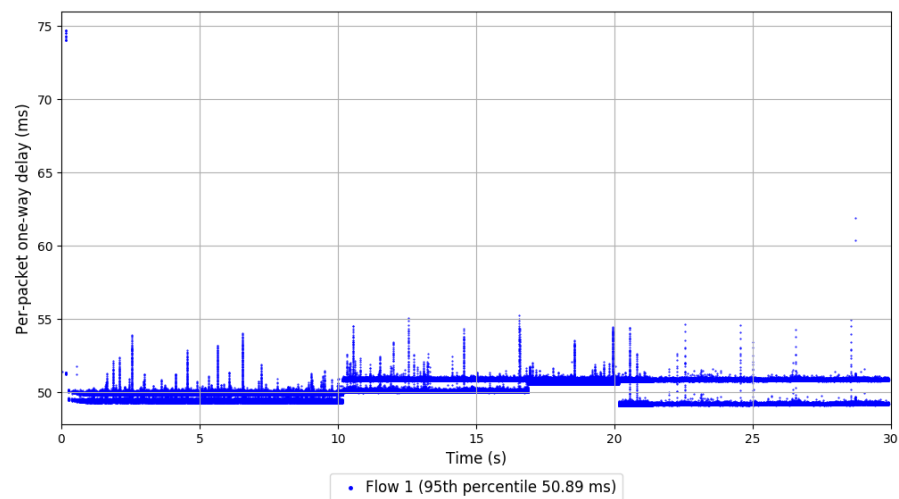
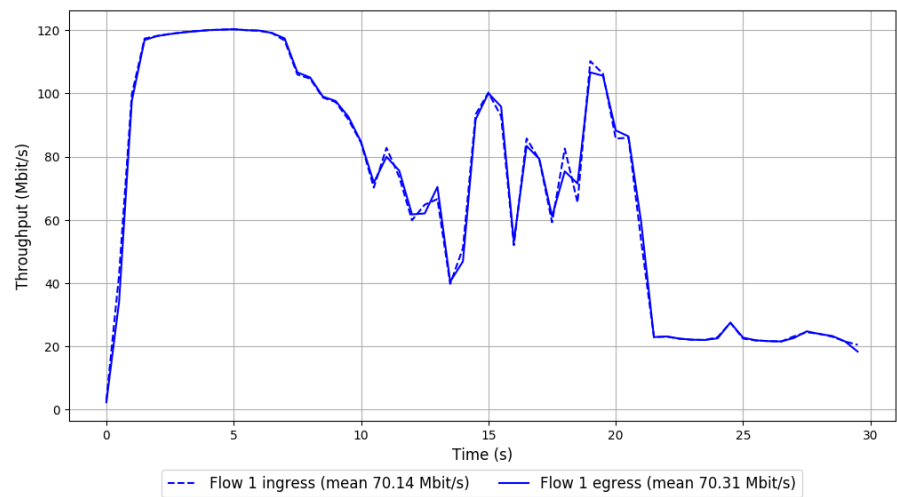
-- Flow 1:

Average throughput: 70.31 Mbit/s

95th percentile per-packet one-way delay: 50.893 ms

Loss rate: 0.10%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-20 01:30:21

End at: 2018-02-20 01:30:51

# Below is generated by plot.py at 2018-02-20 06:39:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.75 Mbit/s

95th percentile per-packet one-way delay: 51.041 ms

Loss rate: 0.12%

-- Flow 1:

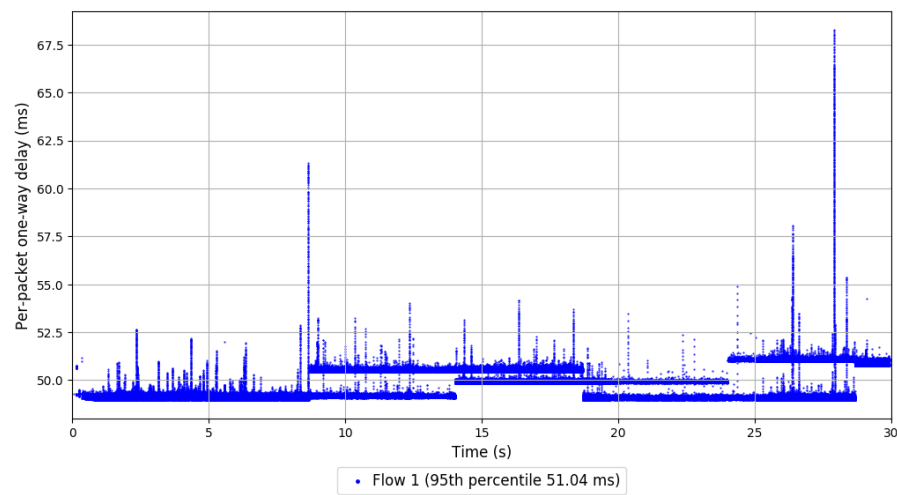
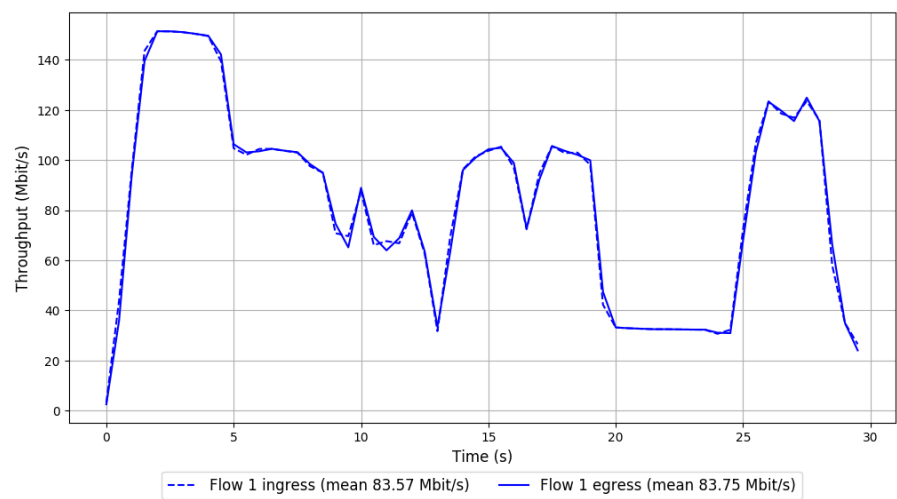
Average throughput: 83.75 Mbit/s

95th percentile per-packet one-way delay: 51.041 ms

Loss rate: 0.12%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-20 01:45:01

End at: 2018-02-20 01:45:31

# Below is generated by plot.py at 2018-02-20 06:39:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.02 Mbit/s

95th percentile per-packet one-way delay: 50.693 ms

Loss rate: 0.19%

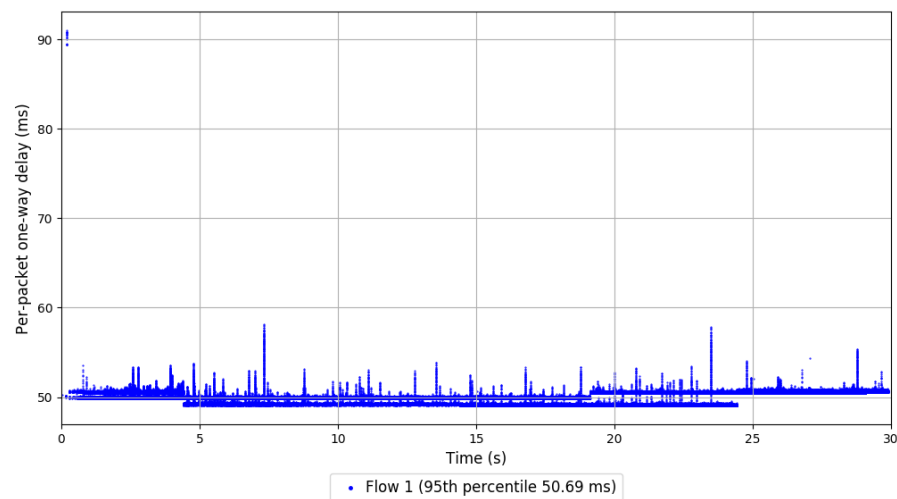
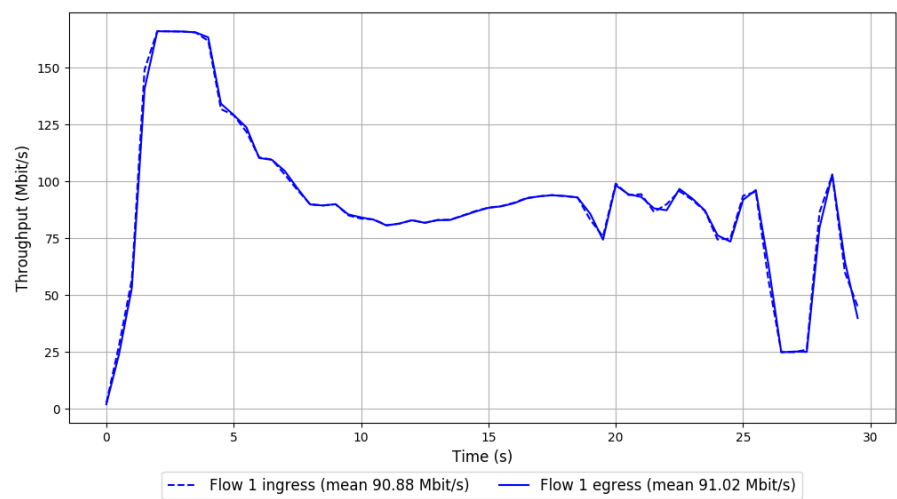
-- Flow 1:

Average throughput: 91.02 Mbit/s

95th percentile per-packet one-way delay: 50.693 ms

Loss rate: 0.19%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-20 01:59:54

End at: 2018-02-20 02:00:24

# Below is generated by plot.py at 2018-02-20 06:39:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.11 Mbit/s

95th percentile per-packet one-way delay: 50.973 ms

Loss rate: 0.48%

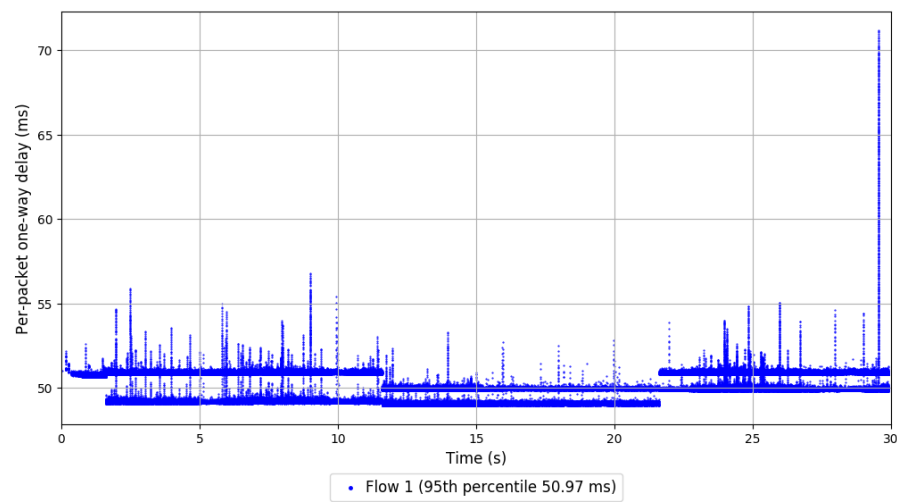
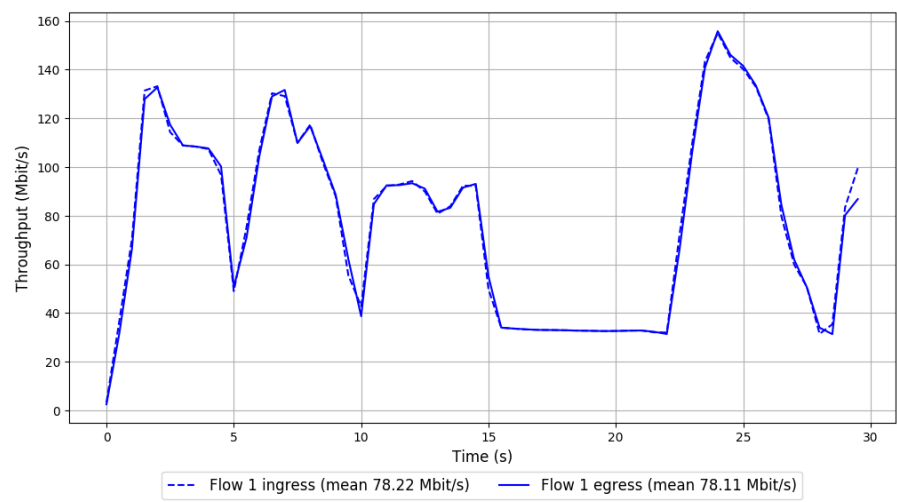
-- Flow 1:

Average throughput: 78.11 Mbit/s

95th percentile per-packet one-way delay: 50.973 ms

Loss rate: 0.48%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-20 02:14:35

End at: 2018-02-20 02:15:05

# Below is generated by plot.py at 2018-02-20 06:40:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 65.84 Mbit/s

95th percentile per-packet one-way delay: 50.712 ms

Loss rate: 0.17%

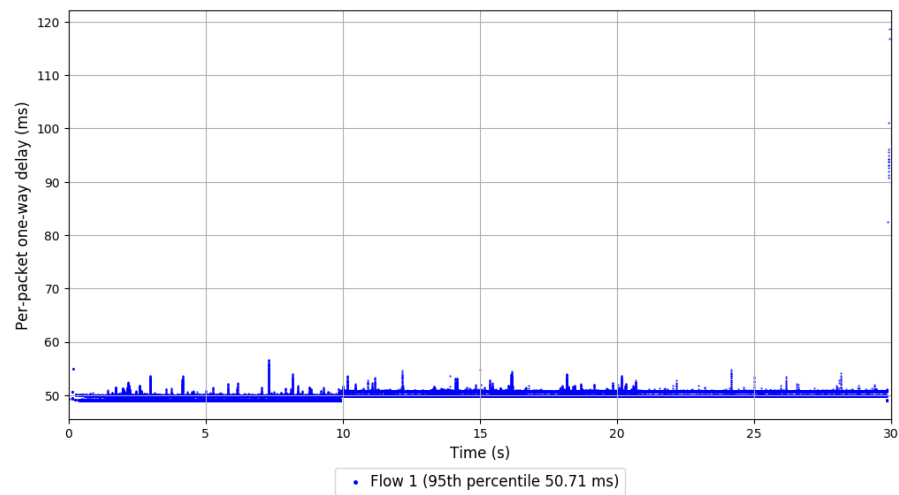
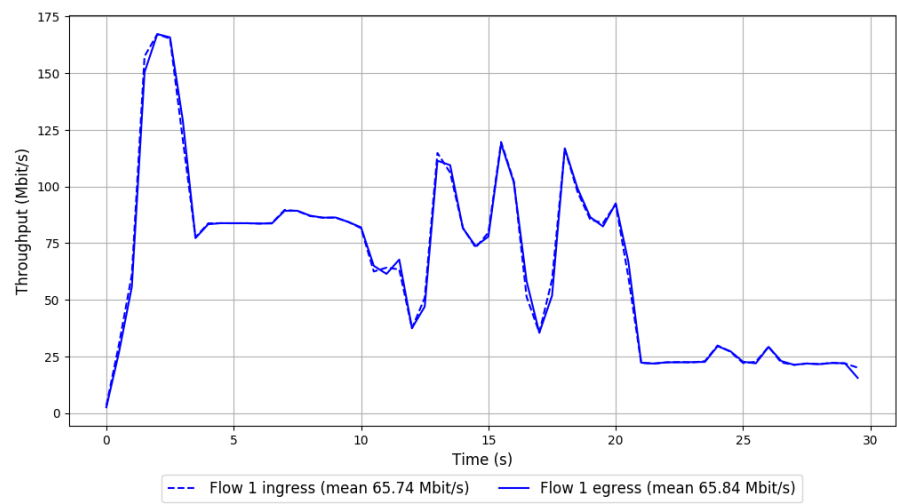
-- Flow 1:

Average throughput: 65.84 Mbit/s

95th percentile per-packet one-way delay: 50.712 ms

Loss rate: 0.17%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

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

End at: 2018-02-20 02:29:50

# Below is generated by plot.py at 2018-02-20 06:40:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.34 Mbit/s

95th percentile per-packet one-way delay: 51.051 ms

Loss rate: 0.06%

-- Flow 1:

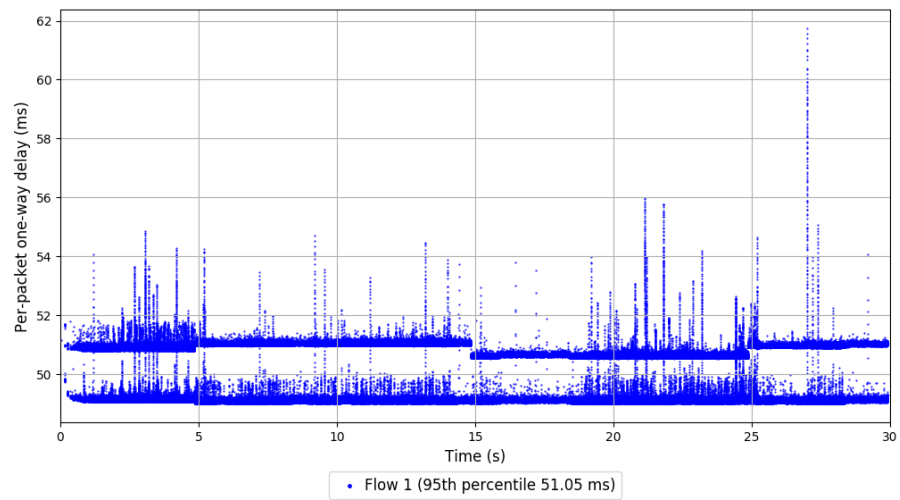
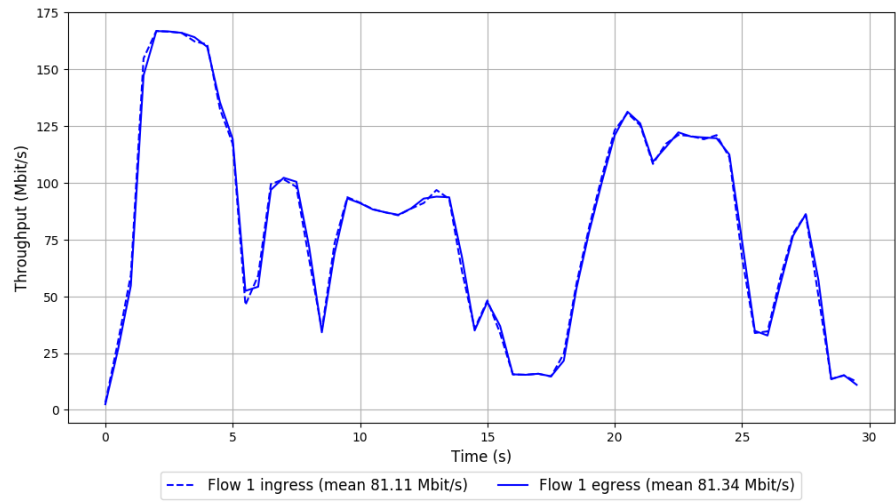
Average throughput: 81.34 Mbit/s

95th percentile per-packet one-way delay: 51.051 ms

Loss rate: 0.06%



### Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-20 02:44:03

End at: 2018-02-20 02:44:33

# Below is generated by plot.py at 2018-02-20 06:40:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 53.39 Mbit/s

95th percentile per-packet one-way delay: 51.155 ms

Loss rate: 0.12%

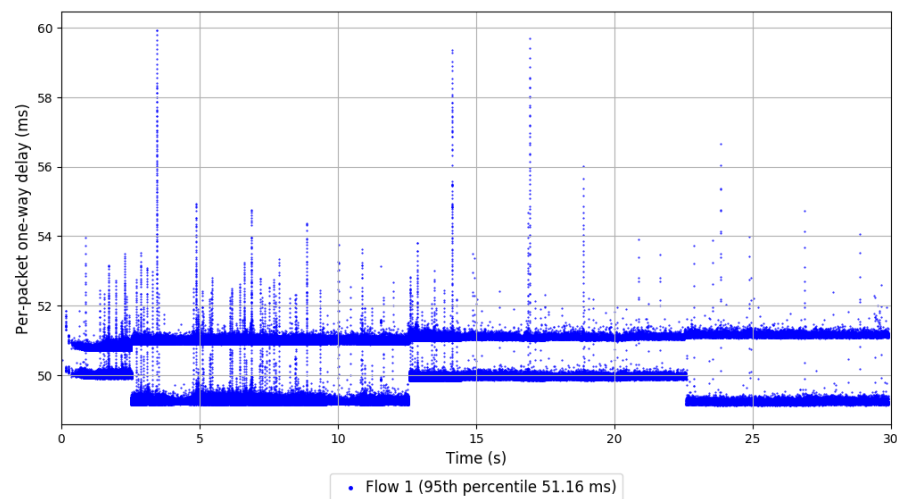
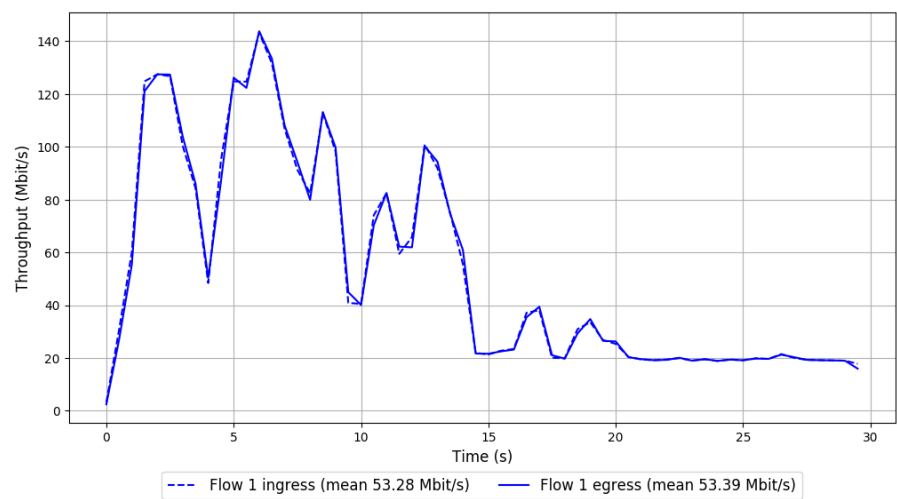
-- Flow 1:

Average throughput: 53.39 Mbit/s

95th percentile per-packet one-way delay: 51.155 ms

Loss rate: 0.12%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-20 02:58:47

End at: 2018-02-20 02:59:17

# Below is generated by plot.py at 2018-02-20 06:40:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 66.67 Mbit/s

95th percentile per-packet one-way delay: 51.081 ms

Loss rate: 0.22%

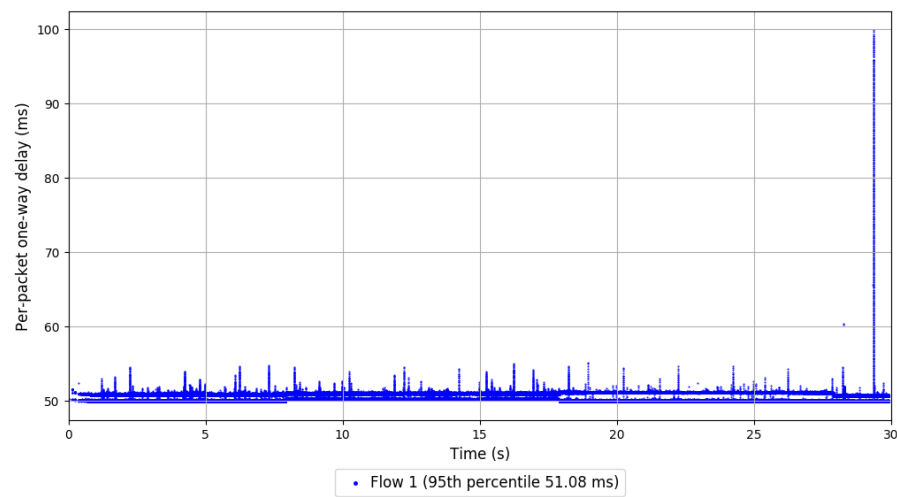
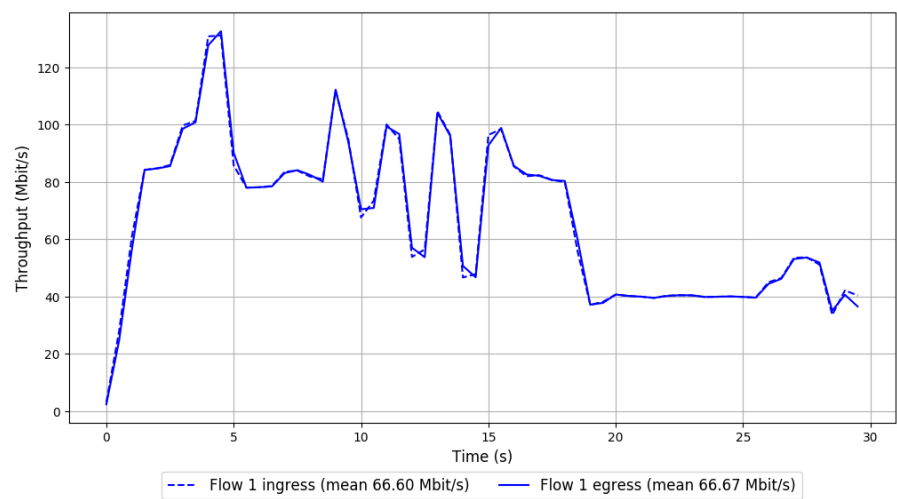
-- Flow 1:

Average throughput: 66.67 Mbit/s

95th percentile per-packet one-way delay: 51.081 ms

Loss rate: 0.22%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-20 03:13:35

End at: 2018-02-20 03:14:05

# Below is generated by plot.py at 2018-02-20 06:41:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.75 Mbit/s

95th percentile per-packet one-way delay: 50.645 ms

Loss rate: 0.31%

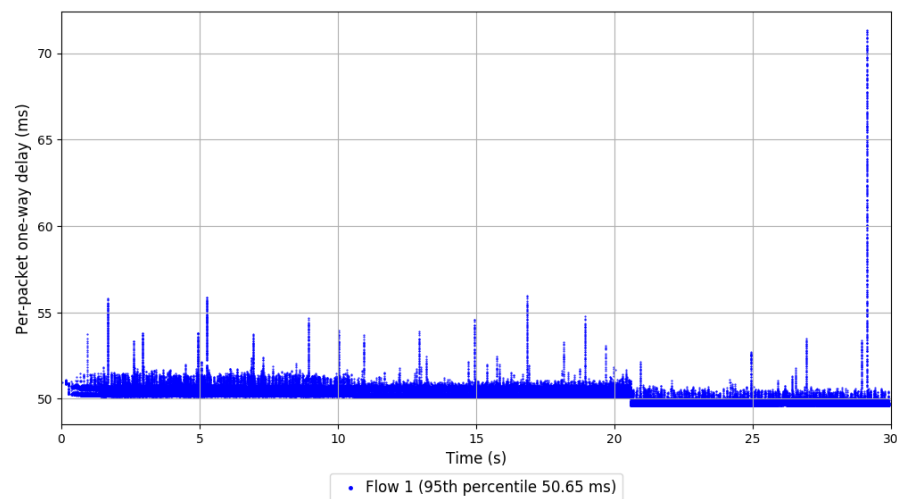
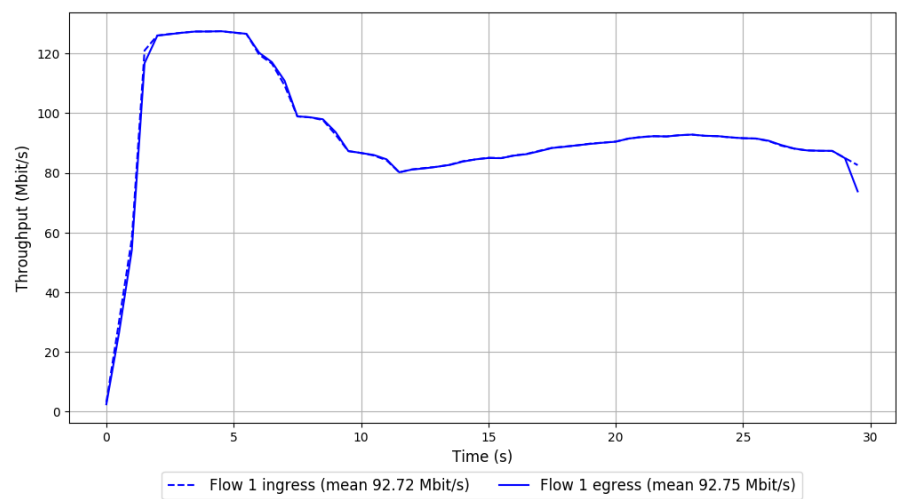
-- Flow 1:

Average throughput: 92.75 Mbit/s

95th percentile per-packet one-way delay: 50.645 ms

Loss rate: 0.31%

Run 10: Report of Copa — Data Link



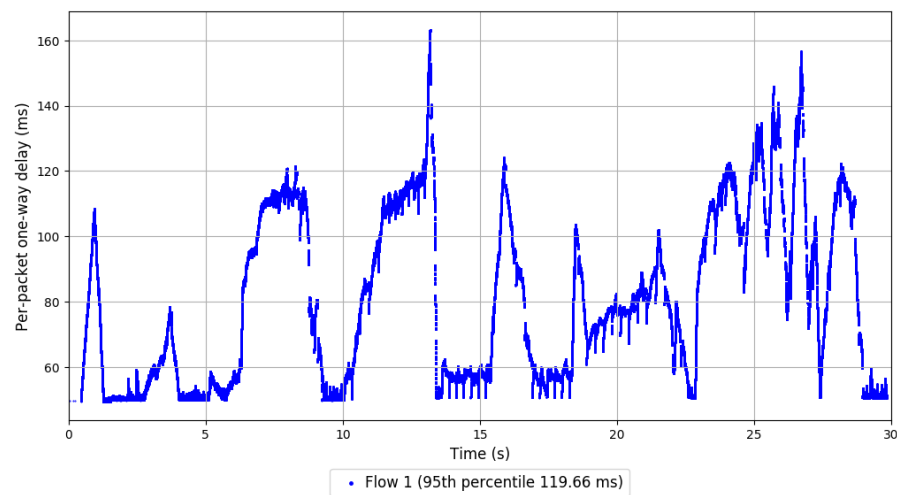
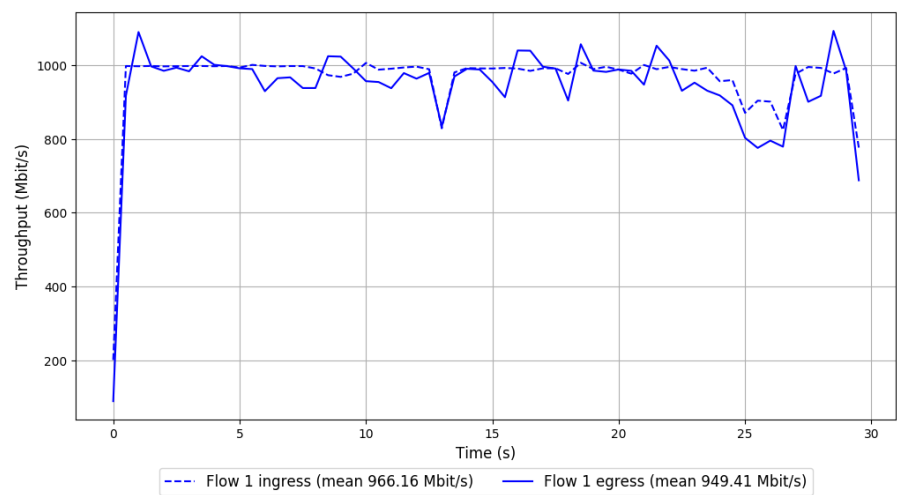
```
Run 1: Statistics of FillP

Start at: 2018-02-20 00:48:58
End at: 2018-02-20 00:49:28

# Below is generated by plot.py at 2018-02-20 06:56:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 949.41 Mbit/s
95th percentile per-packet one-way delay: 119.664 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 949.41 Mbit/s
95th percentile per-packet one-way delay: 119.664 ms
Loss rate: 2.06%
```



Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-20 01:03:50

End at: 2018-02-20 01:04:20

# Below is generated by plot.py at 2018-02-20 06:56:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 925.38 Mbit/s

95th percentile per-packet one-way delay: 120.707 ms

Loss rate: 3.84%

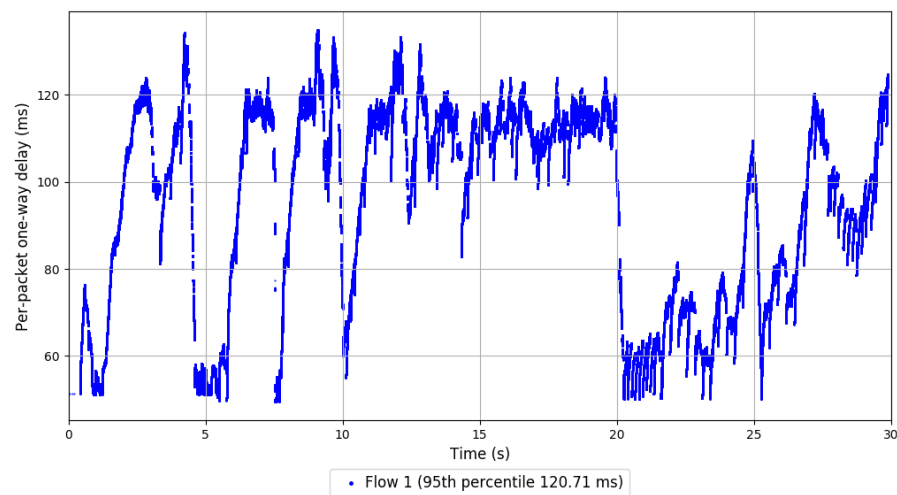
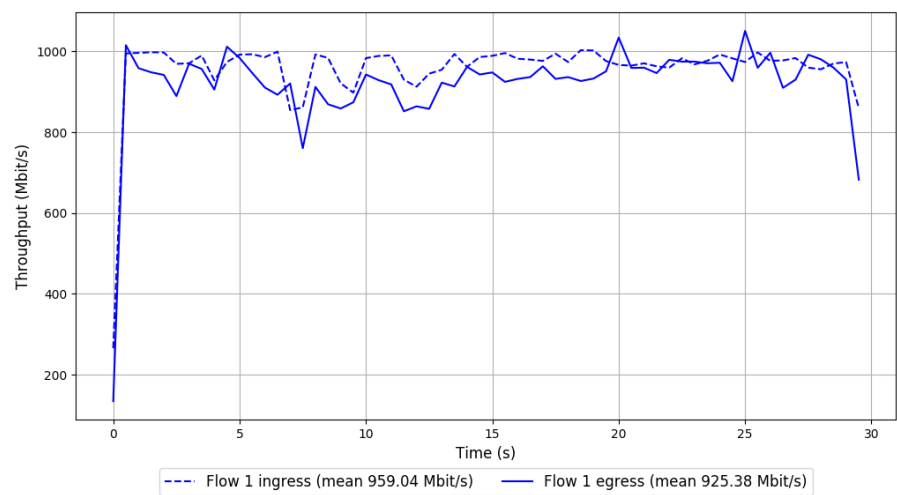
-- Flow 1:

Average throughput: 925.38 Mbit/s

95th percentile per-packet one-way delay: 120.707 ms

Loss rate: 3.84%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-20 01:18:47

End at: 2018-02-20 01:19:17

# Below is generated by plot.py at 2018-02-20 06:56:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 949.21 Mbit/s

95th percentile per-packet one-way delay: 119.361 ms

Loss rate: 2.33%

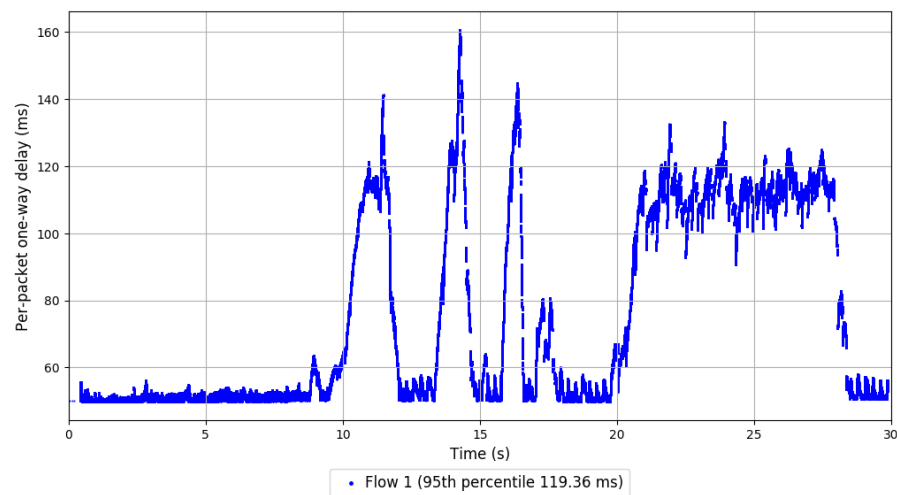
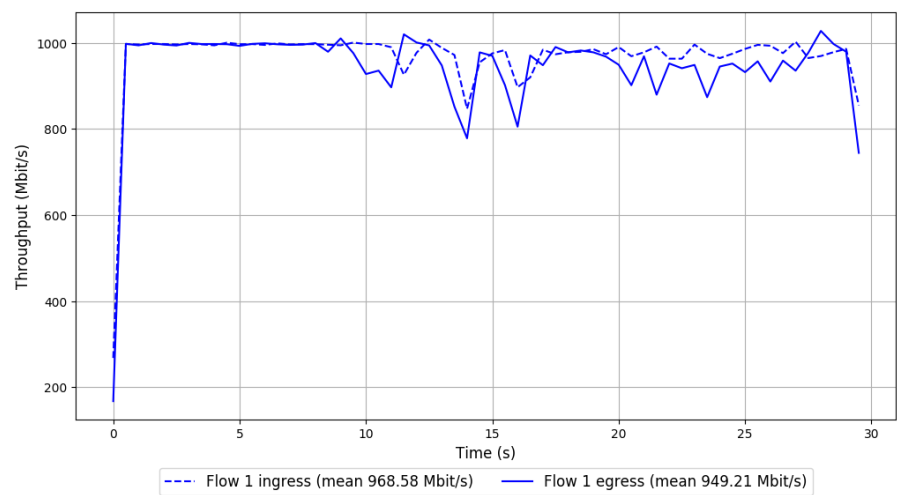
-- Flow 1:

Average throughput: 949.21 Mbit/s

95th percentile per-packet one-way delay: 119.361 ms

Loss rate: 2.33%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-20 01:33:33

End at: 2018-02-20 01:34:03

# Below is generated by plot.py at 2018-02-20 06:56:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 849.80 Mbit/s

95th percentile per-packet one-way delay: 129.478 ms

Loss rate: 8.24%

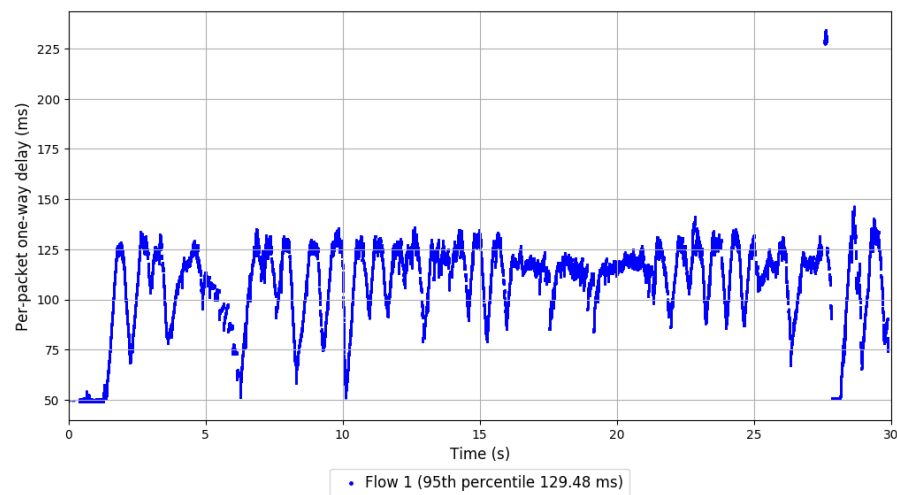
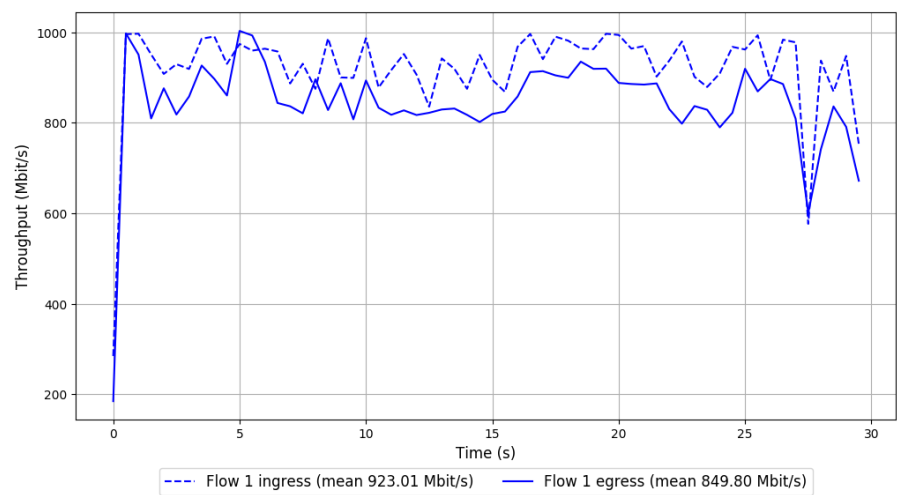
-- Flow 1:

Average throughput: 849.80 Mbit/s

95th percentile per-packet one-way delay: 129.478 ms

Loss rate: 8.24%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-20 01:48:14

End at: 2018-02-20 01:48:44

# Below is generated by plot.py at 2018-02-20 06:57:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 957.95 Mbit/s

95th percentile per-packet one-way delay: 117.156 ms

Loss rate: 1.63%

-- Flow 1:

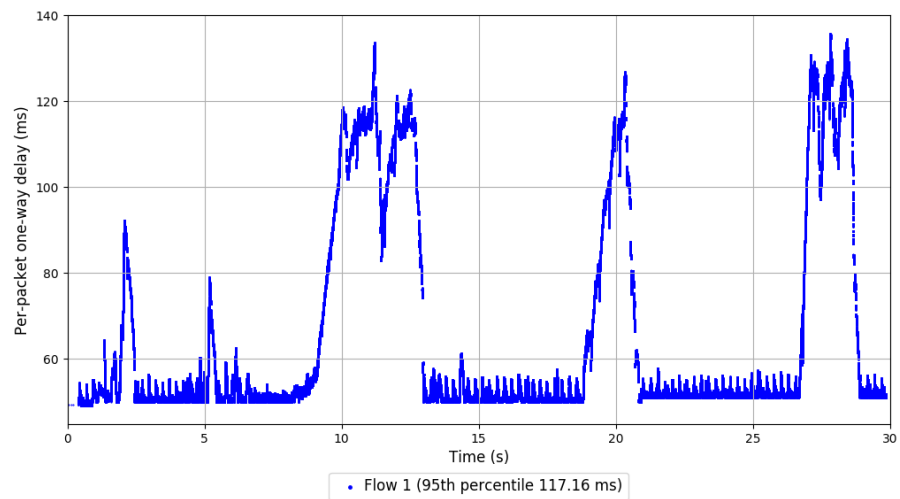
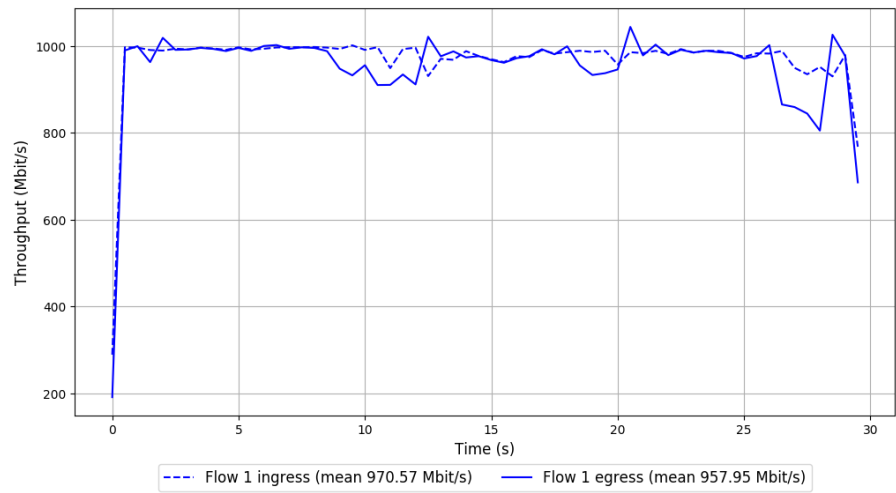
Average throughput: 957.95 Mbit/s

95th percentile per-packet one-way delay: 117.156 ms

Loss rate: 1.63%



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



Run 6: Statistics of FillP

Start at: 2018-02-20 02:03:05

End at: 2018-02-20 02:03:35

# Below is generated by plot.py at 2018-02-20 06:57:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 919.80 Mbit/s

95th percentile per-packet one-way delay: 124.346 ms

Loss rate: 4.13%

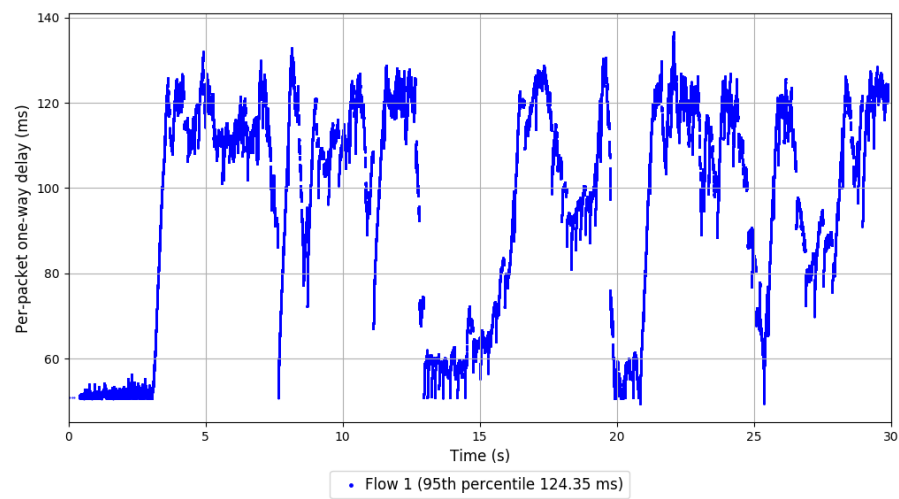
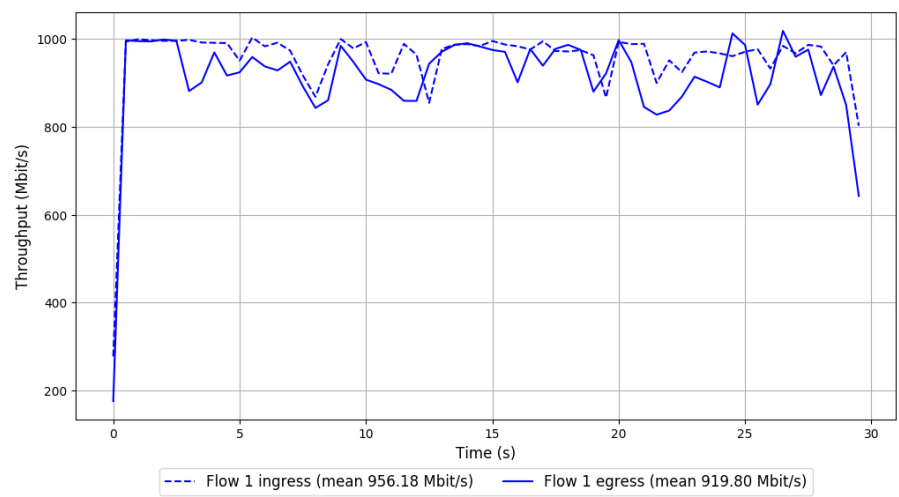
-- Flow 1:

Average throughput: 919.80 Mbit/s

95th percentile per-packet one-way delay: 124.346 ms

Loss rate: 4.13%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-20 02:17:47

End at: 2018-02-20 02:18:17

# Below is generated by plot.py at 2018-02-20 06:57:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 814.86 Mbit/s

95th percentile per-packet one-way delay: 135.356 ms

Loss rate: 10.73%

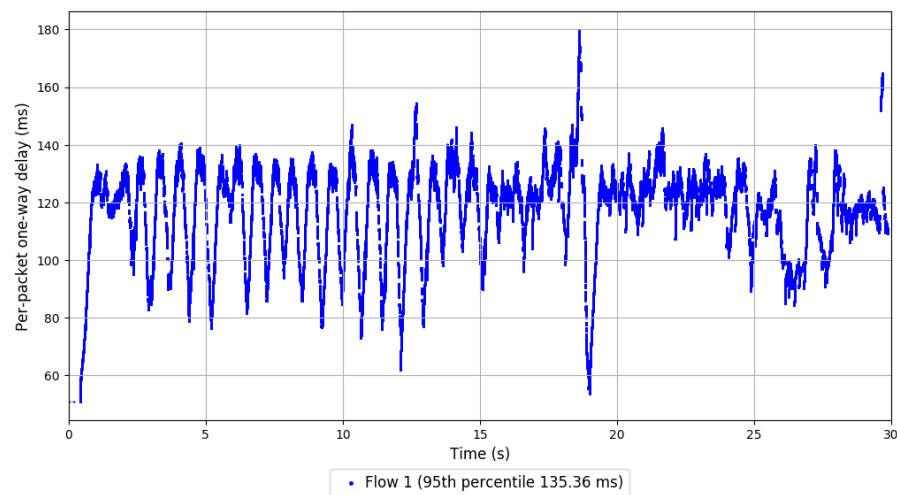
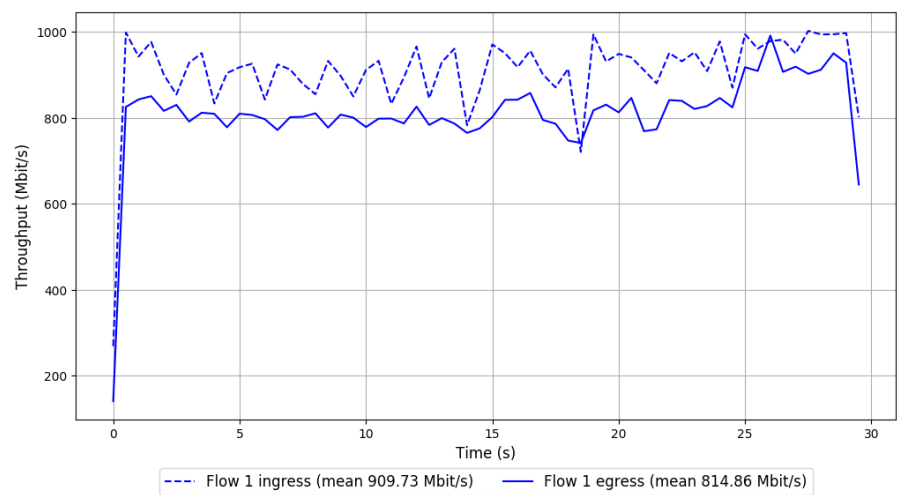
-- Flow 1:

Average throughput: 814.86 Mbit/s

95th percentile per-packet one-way delay: 135.356 ms

Loss rate: 10.73%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

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

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

# Below is generated by plot.py at 2018-02-20 06:57:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 797.47 Mbit/s

95th percentile per-packet one-way delay: 134.796 ms

Loss rate: 11.02%

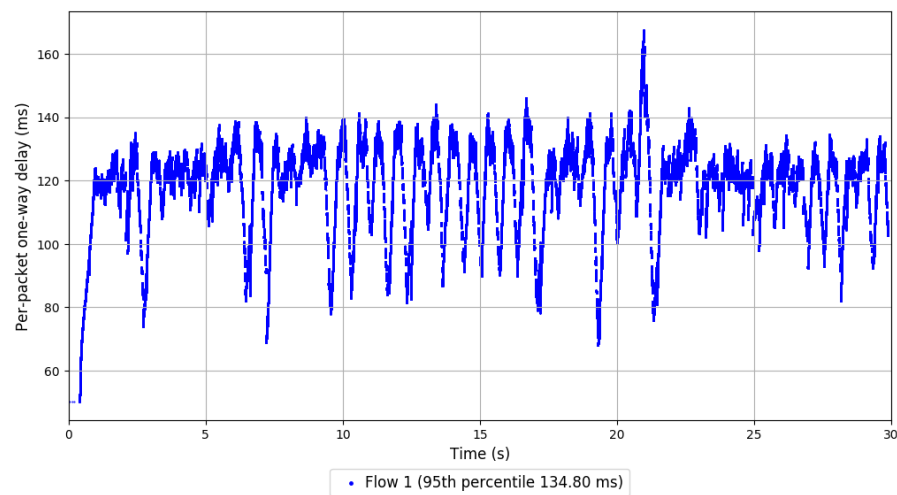
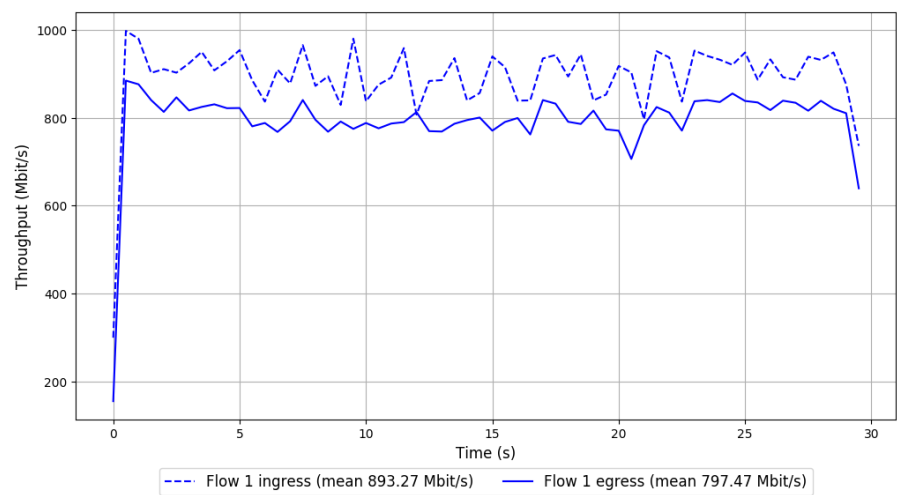
-- Flow 1:

Average throughput: 797.47 Mbit/s

95th percentile per-packet one-way delay: 134.796 ms

Loss rate: 11.02%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-20 02:47:09

End at: 2018-02-20 02:47:39

# Below is generated by plot.py at 2018-02-20 07:12:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 948.83 Mbit/s

95th percentile per-packet one-way delay: 120.073 ms

Loss rate: 2.78%

-- Flow 1:

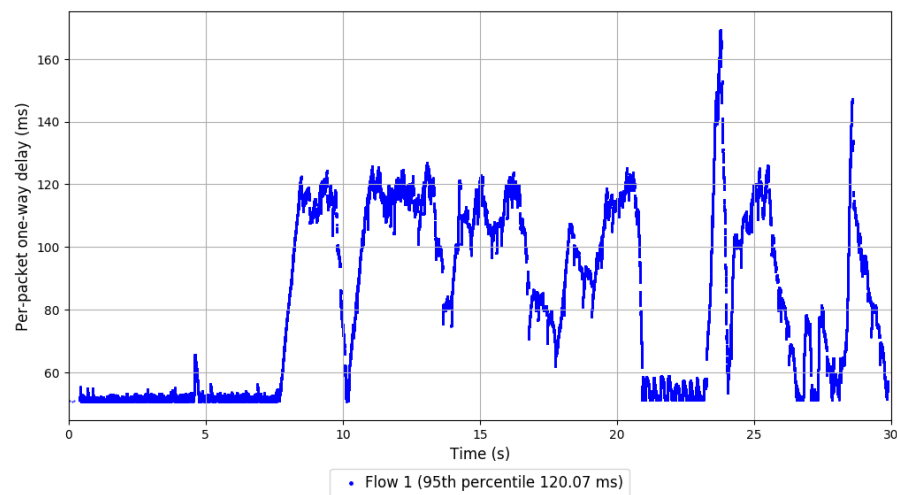
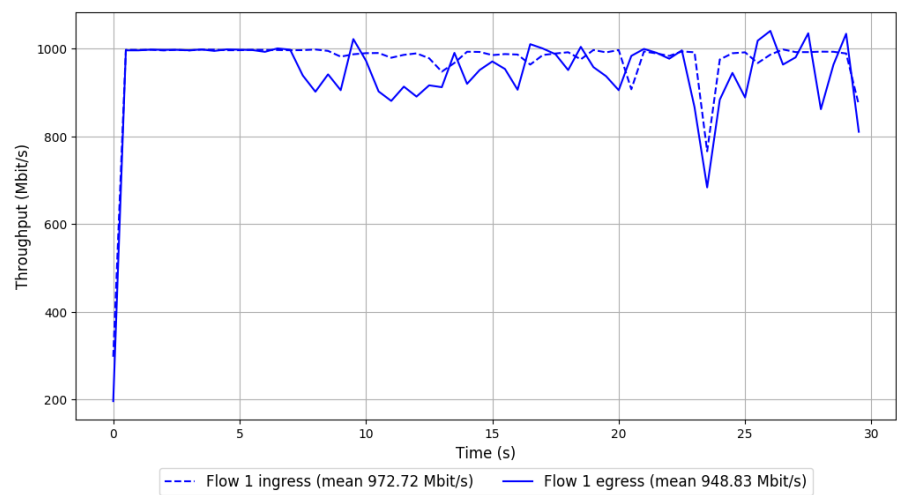
Average throughput: 948.83 Mbit/s

95th percentile per-packet one-way delay: 120.073 ms

Loss rate: 2.78%



Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-20 03:01:56

End at: 2018-02-20 03:02:26

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 956.85 Mbit/s

95th percentile per-packet one-way delay: 118.757 ms

Loss rate: 1.75%

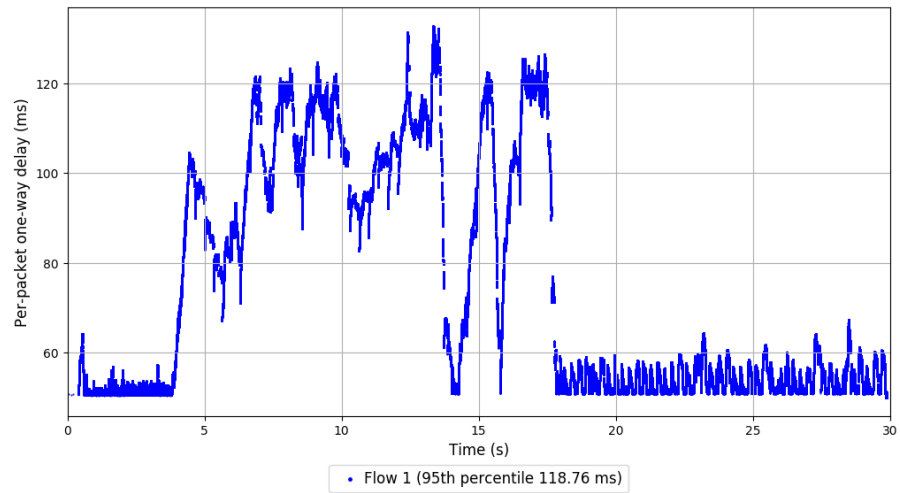
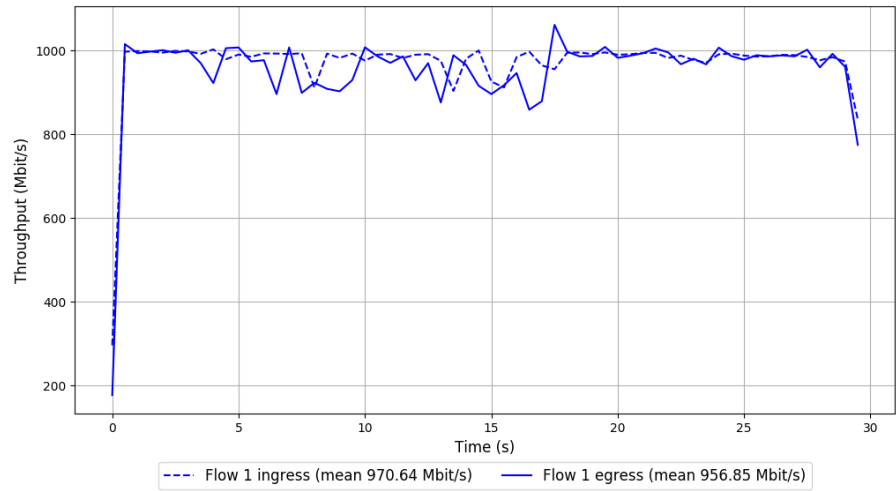
-- Flow 1:

Average throughput: 956.85 Mbit/s

95th percentile per-packet one-way delay: 118.757 ms

Loss rate: 1.75%

# Run 10: Report of FillP — Data Link

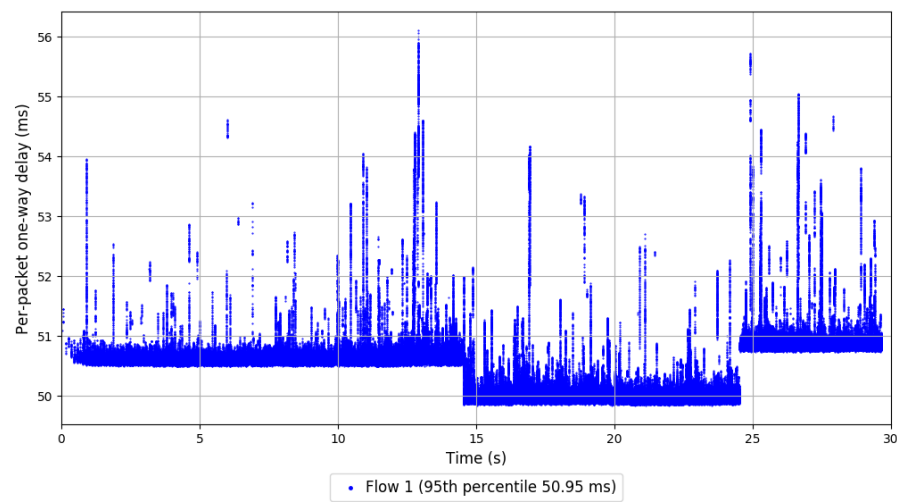
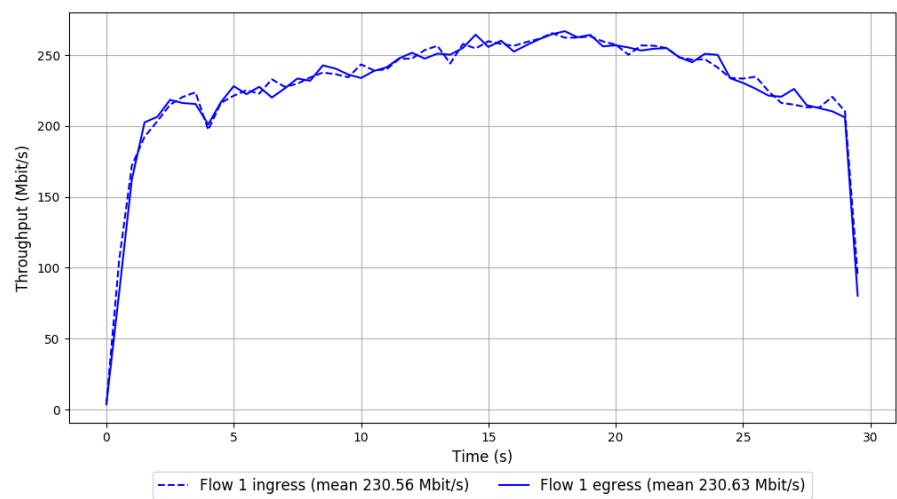


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-20 00:54:50
End at: 2018-02-20 00:55:20

# Below is generated by plot.py at 2018-02-20 07:13:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.63 Mbit/s
95th percentile per-packet one-way delay: 50.950 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 230.63 Mbit/s
95th percentile per-packet one-way delay: 50.950 ms
Loss rate: 0.32%
```

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

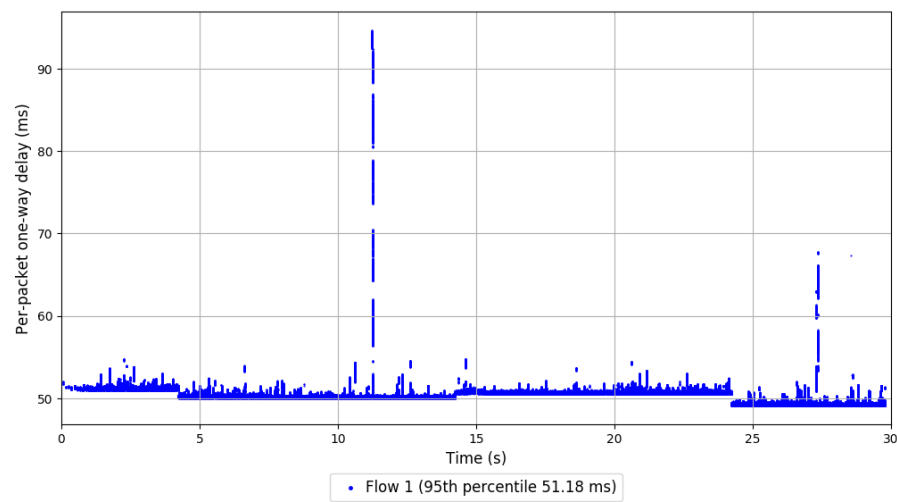
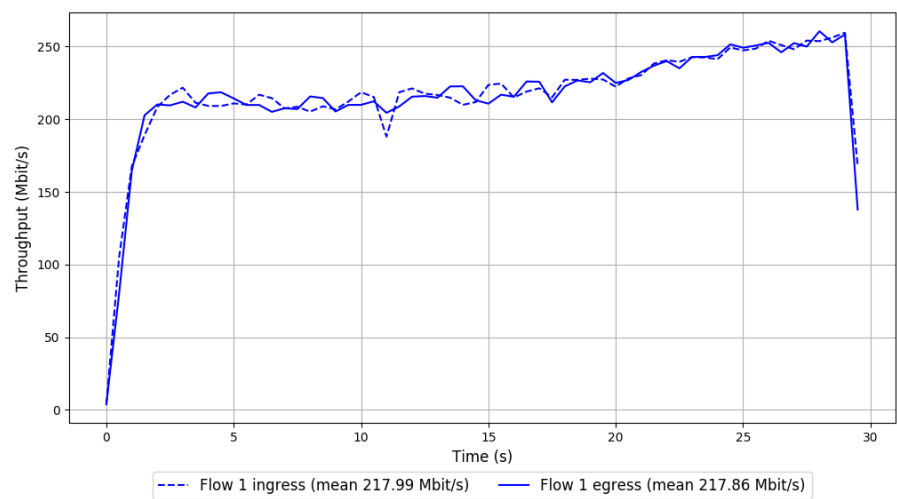


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-20 01:09:41
End at: 2018-02-20 01:10:11

# Below is generated by plot.py at 2018-02-20 07:13:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.86 Mbit/s
95th percentile per-packet one-way delay: 51.179 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 217.86 Mbit/s
95th percentile per-packet one-way delay: 51.179 ms
Loss rate: 0.40%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-20 01:24:36

End at: 2018-02-20 01:25:06

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 237.41 Mbit/s

95th percentile per-packet one-way delay: 51.371 ms

Loss rate: 0.31%

-- Flow 1:

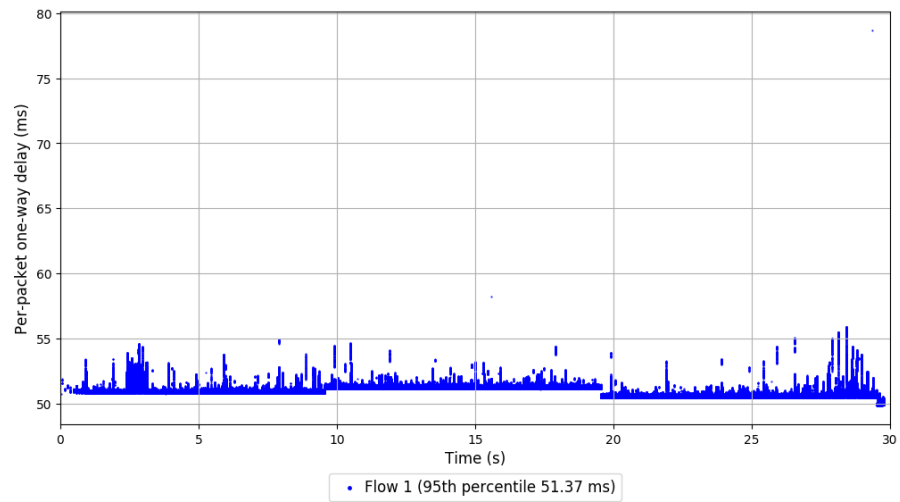
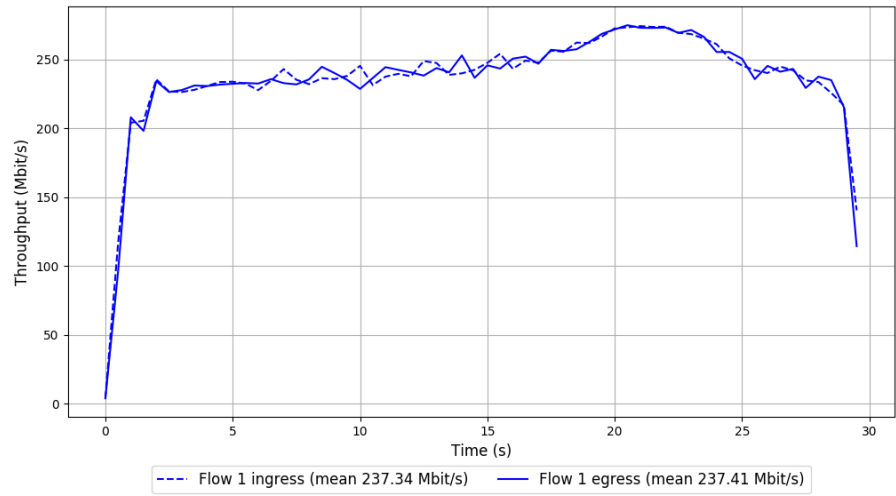
Average throughput: 237.41 Mbit/s

95th percentile per-packet one-way delay: 51.371 ms

Loss rate: 0.31%



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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-20 01:39:18

End at: 2018-02-20 01:39:48

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 231.08 Mbit/s

95th percentile per-packet one-way delay: 51.227 ms

Loss rate: 0.34%

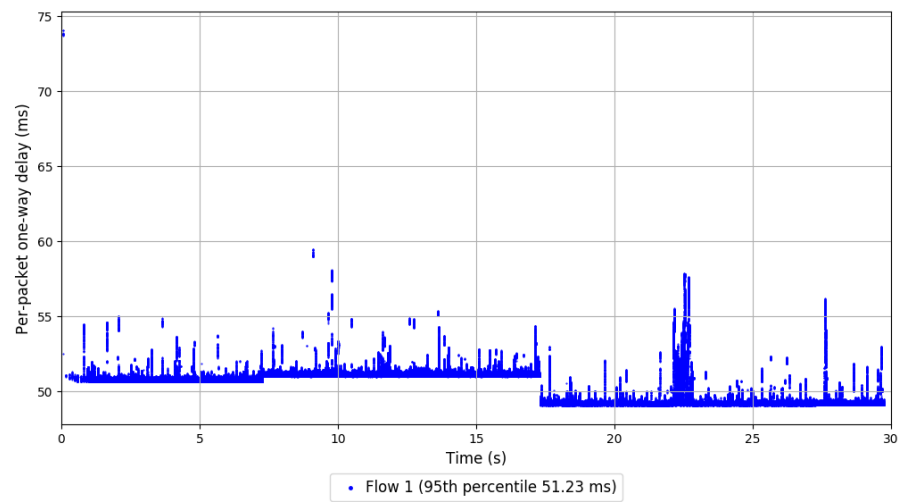
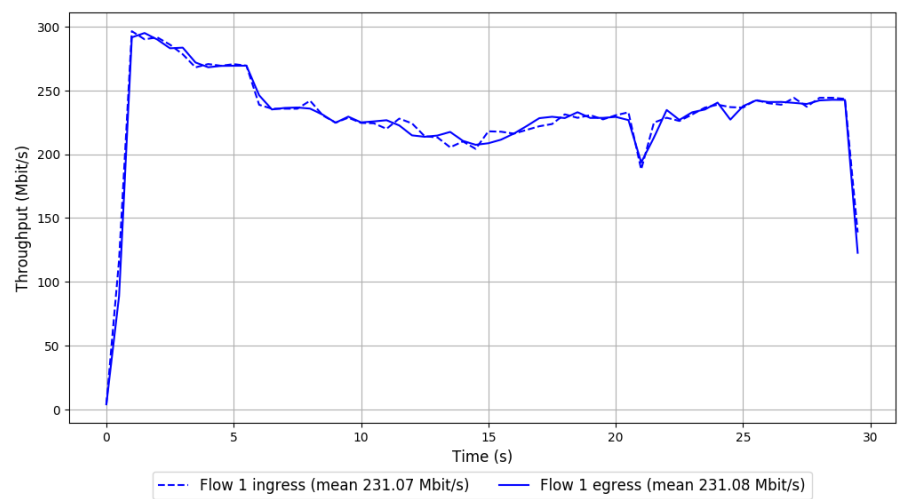
-- Flow 1:

Average throughput: 231.08 Mbit/s

95th percentile per-packet one-way delay: 51.227 ms

Loss rate: 0.34%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-20 01:54:06

End at: 2018-02-20 01:54:36

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 233.76 Mbit/s

95th percentile per-packet one-way delay: 51.044 ms

Loss rate: 0.35%

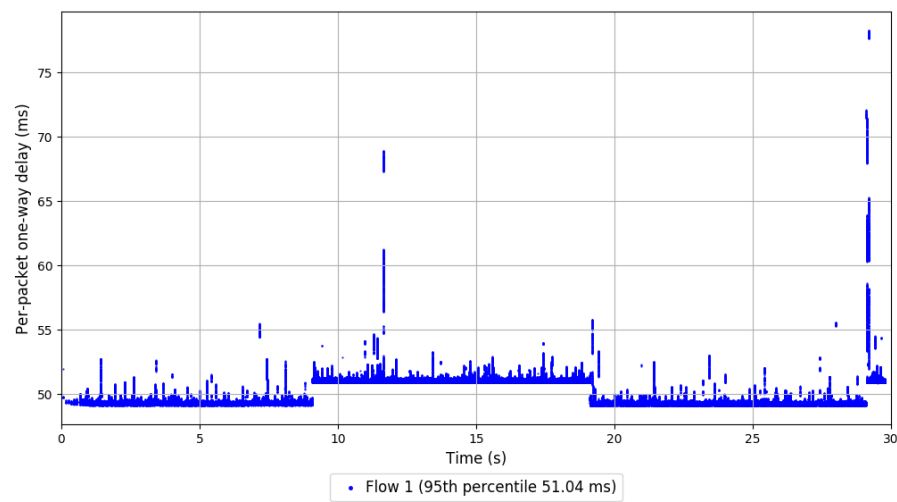
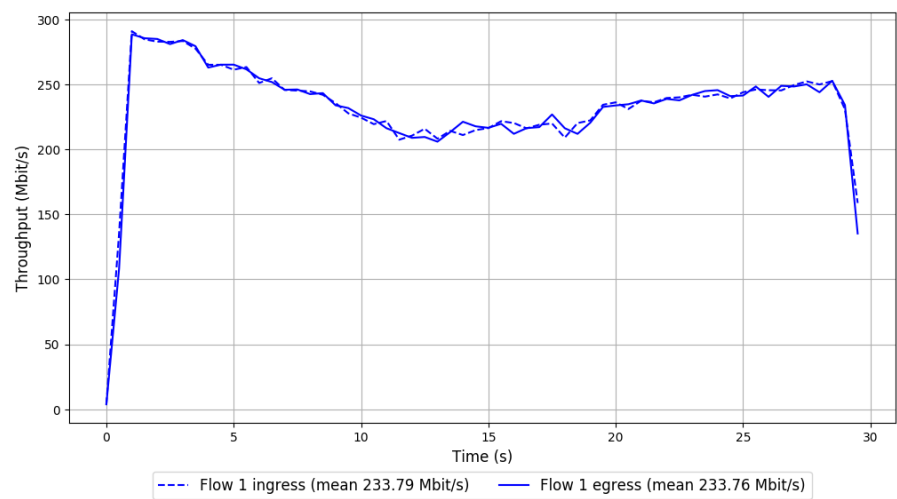
-- Flow 1:

Average throughput: 233.76 Mbit/s

95th percentile per-packet one-way delay: 51.044 ms

Loss rate: 0.35%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-20 02:08:54

End at: 2018-02-20 02:09:24

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 239.37 Mbit/s

95th percentile per-packet one-way delay: 50.844 ms

Loss rate: 0.36%

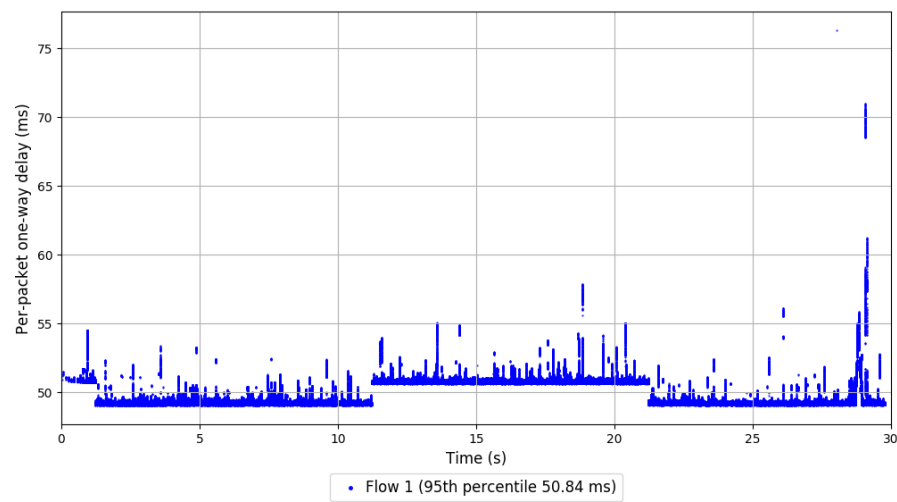
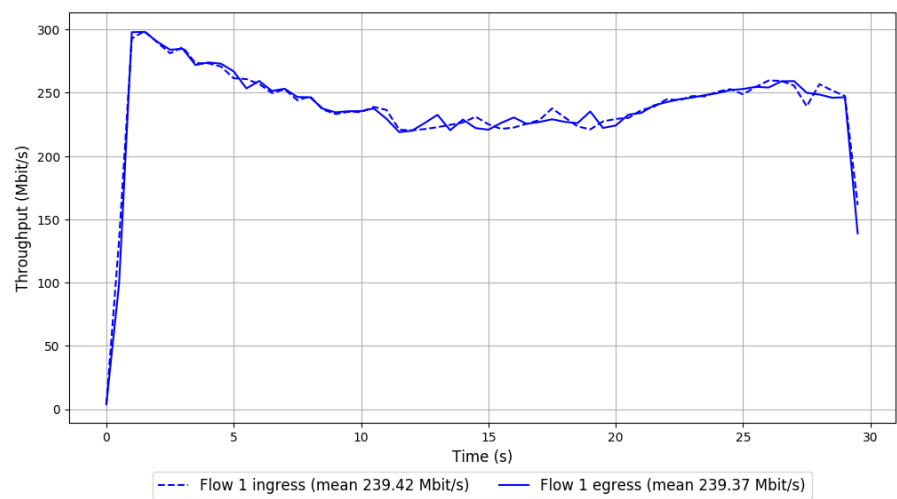
-- Flow 1:

Average throughput: 239.37 Mbit/s

95th percentile per-packet one-way delay: 50.844 ms

Loss rate: 0.36%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-20 02:23:40

End at: 2018-02-20 02:24:10

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 250.24 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 0.35%

-- Flow 1:

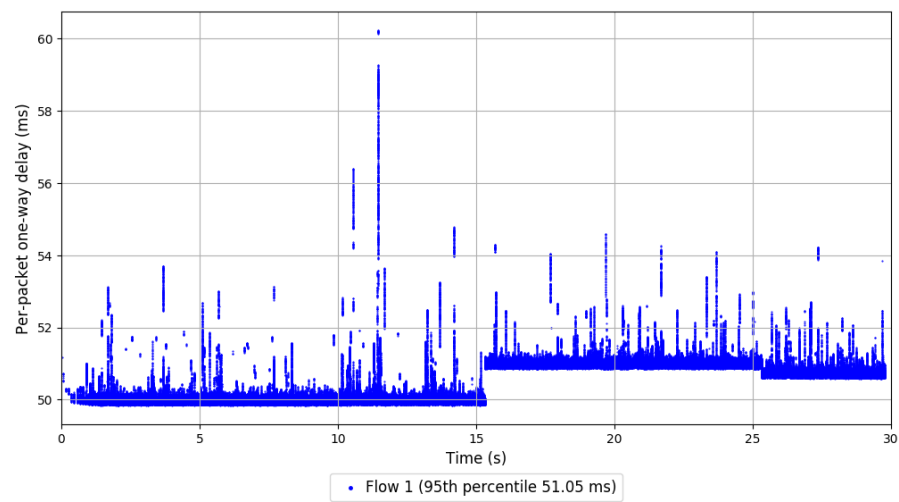
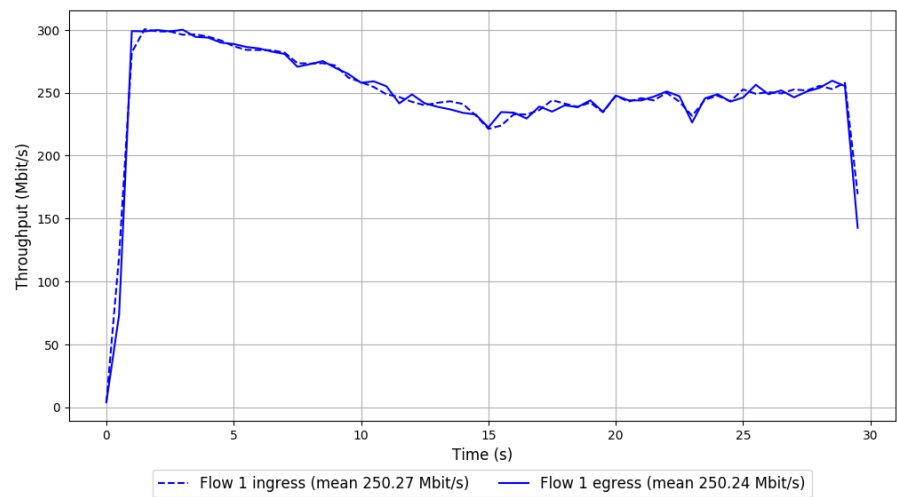
Average throughput: 250.24 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 0.35%



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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-20 02:38:17

End at: 2018-02-20 02:38:47

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 226.60 Mbit/s

95th percentile per-packet one-way delay: 50.024 ms

Loss rate: 0.38%

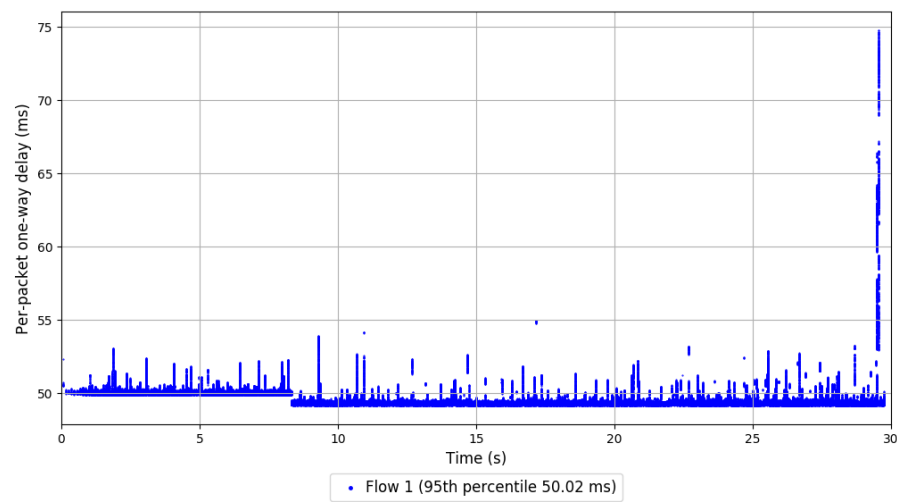
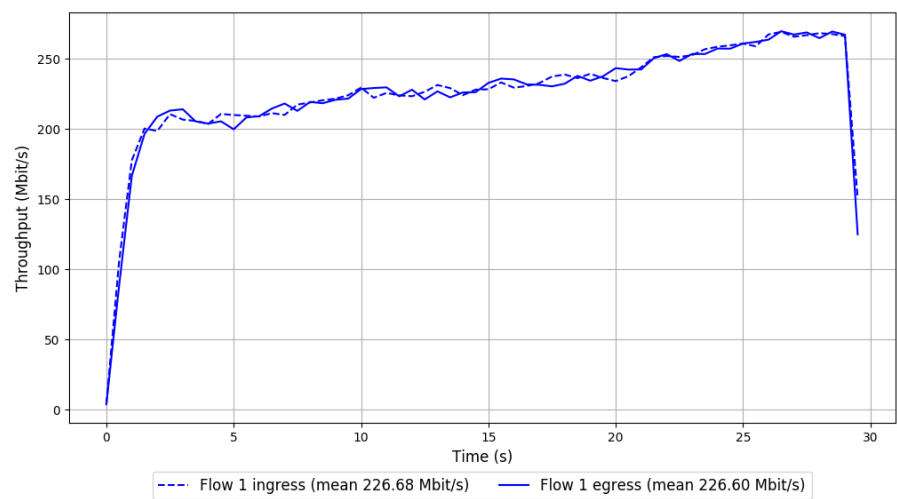
-- Flow 1:

Average throughput: 226.60 Mbit/s

95th percentile per-packet one-way delay: 50.024 ms

Loss rate: 0.38%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-20 02:52:58

End at: 2018-02-20 02:53:28

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 228.20 Mbit/s

95th percentile per-packet one-way delay: 51.203 ms

Loss rate: 0.36%

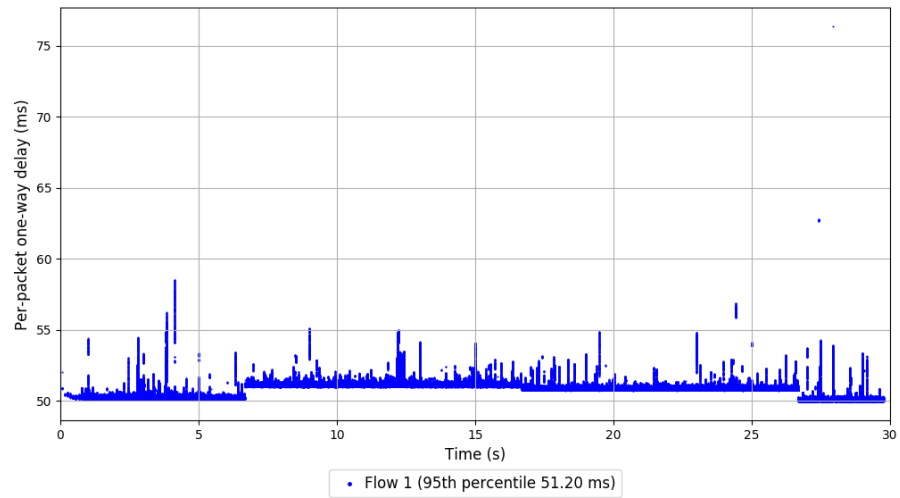
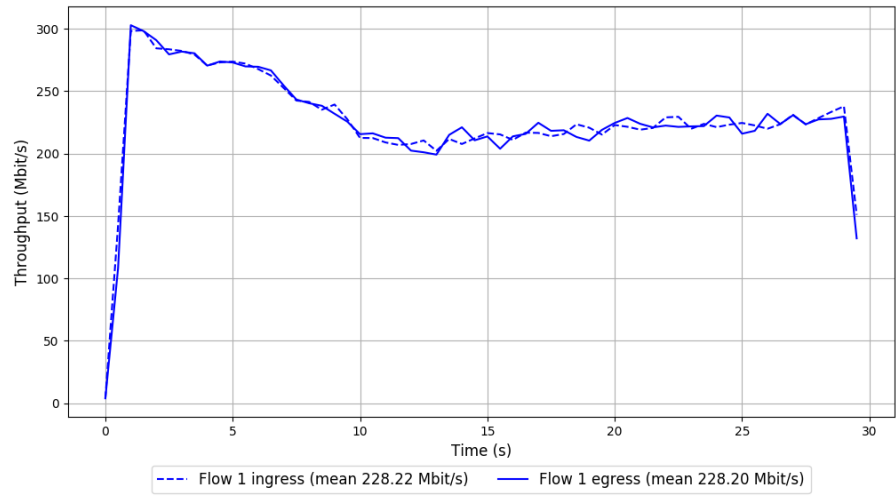
-- Flow 1:

Average throughput: 228.20 Mbit/s

95th percentile per-packet one-way delay: 51.203 ms

Loss rate: 0.36%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-20 03:07:46

End at: 2018-02-20 03:08:16

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 237.40 Mbit/s

95th percentile per-packet one-way delay: 50.702 ms

Loss rate: 0.32%

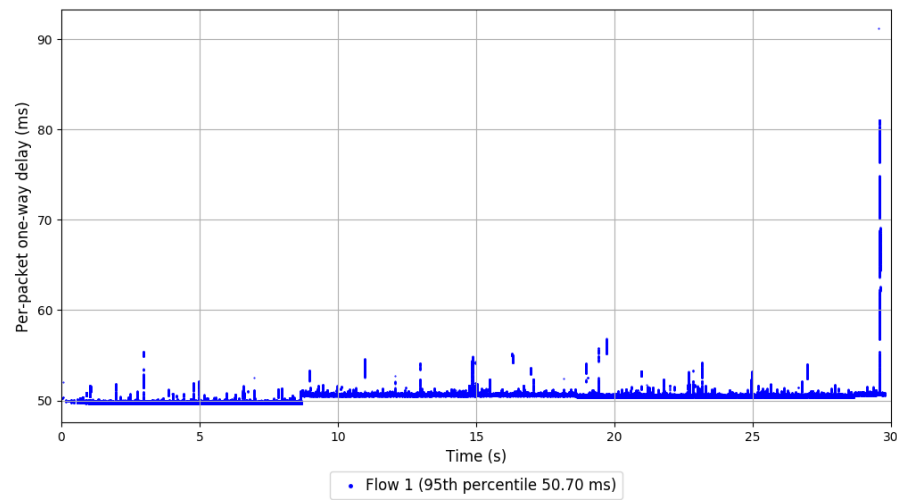
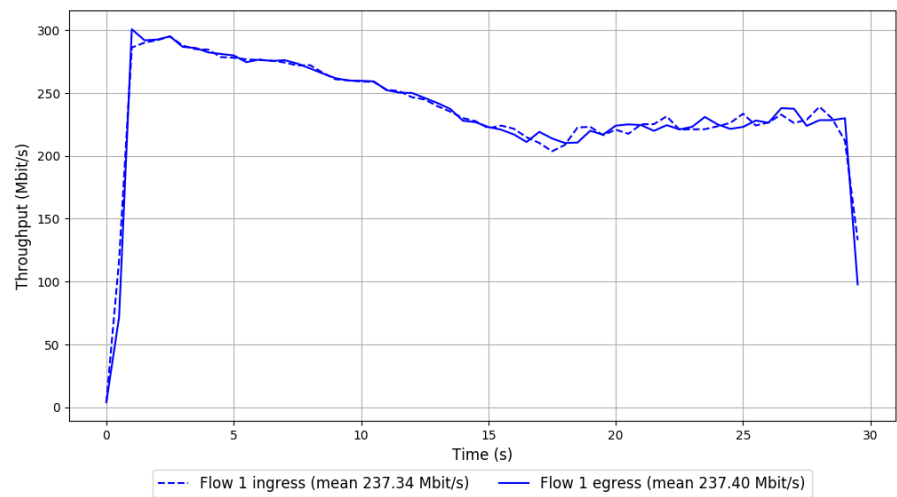
-- Flow 1:

Average throughput: 237.40 Mbit/s

95th percentile per-packet one-way delay: 50.702 ms

Loss rate: 0.32%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-20 00:56:35

End at: 2018-02-20 00:57:05

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 375.13 Mbit/s

95th percentile per-packet one-way delay: 62.289 ms

Loss rate: 0.41%

-- Flow 1:

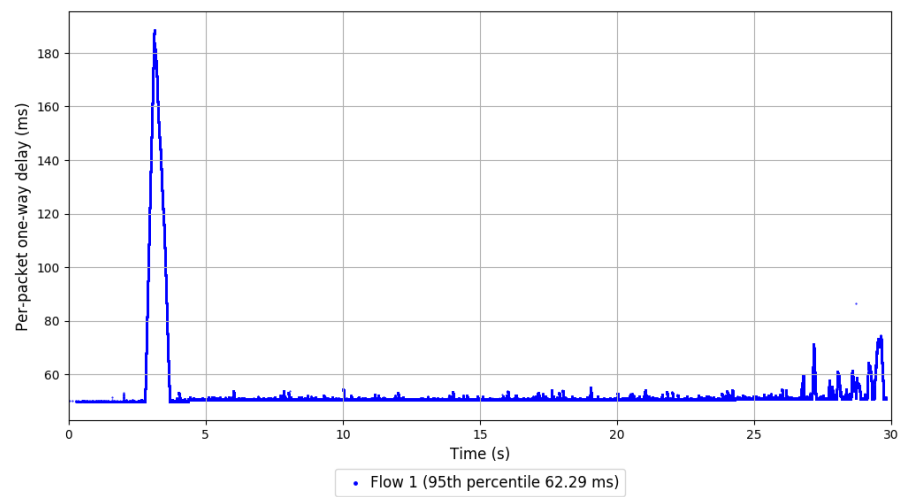
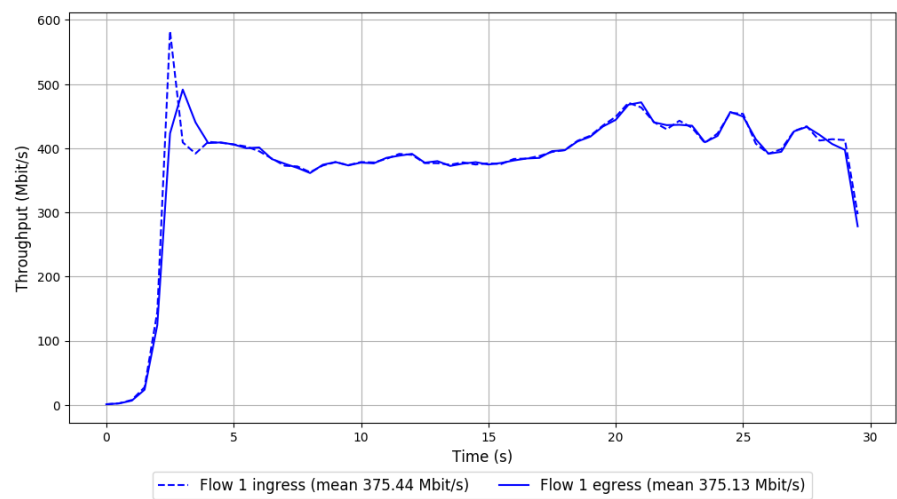
Average throughput: 375.13 Mbit/s

95th percentile per-packet one-way delay: 62.289 ms

Loss rate: 0.41%



Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-20 01:11:27

End at: 2018-02-20 01:11:57

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 431.70 Mbit/s

95th percentile per-packet one-way delay: 54.789 ms

Loss rate: 0.35%

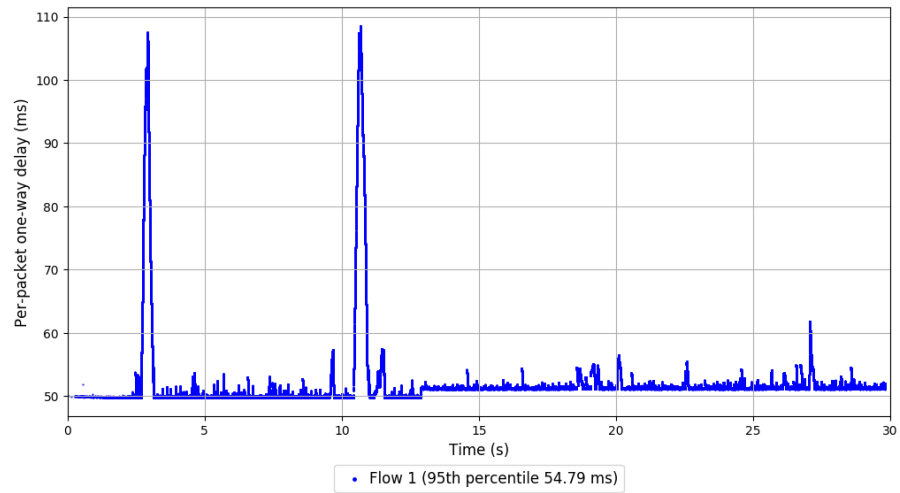
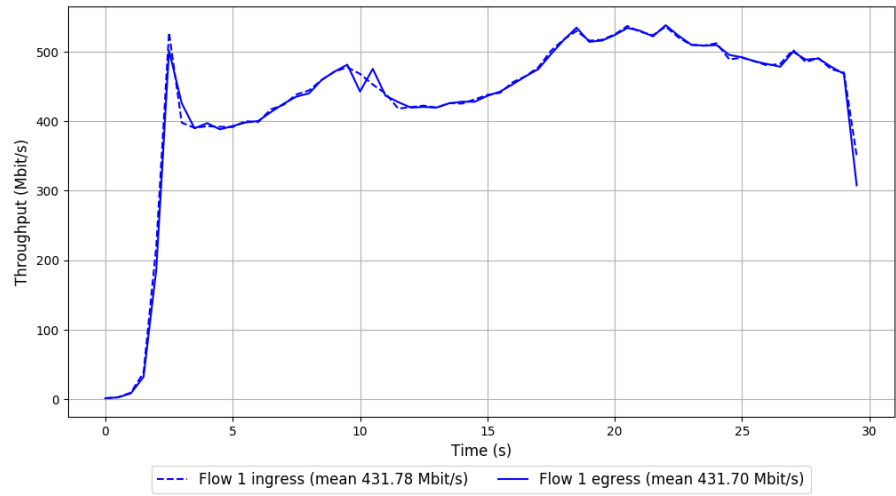
-- Flow 1:

Average throughput: 431.70 Mbit/s

95th percentile per-packet one-way delay: 54.789 ms

Loss rate: 0.35%

## Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-20 01:26:21

End at: 2018-02-20 01:26:51

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 399.06 Mbit/s

95th percentile per-packet one-way delay: 69.454 ms

Loss rate: 0.38%

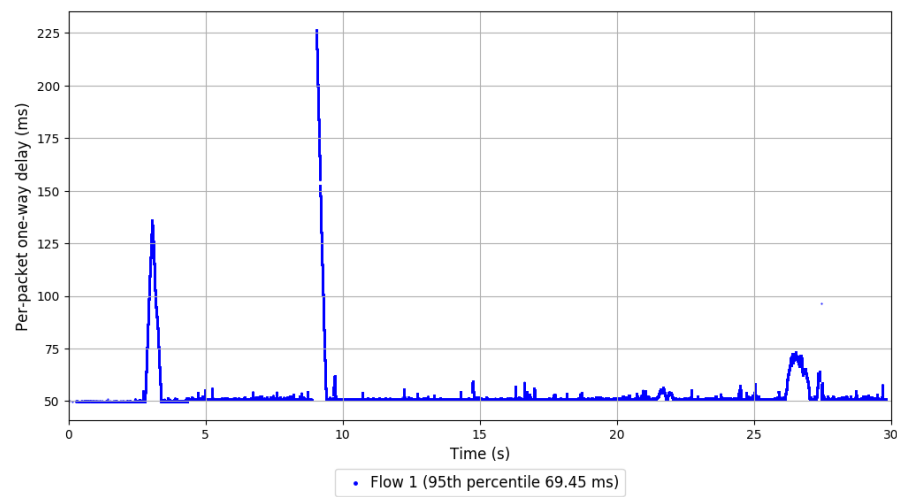
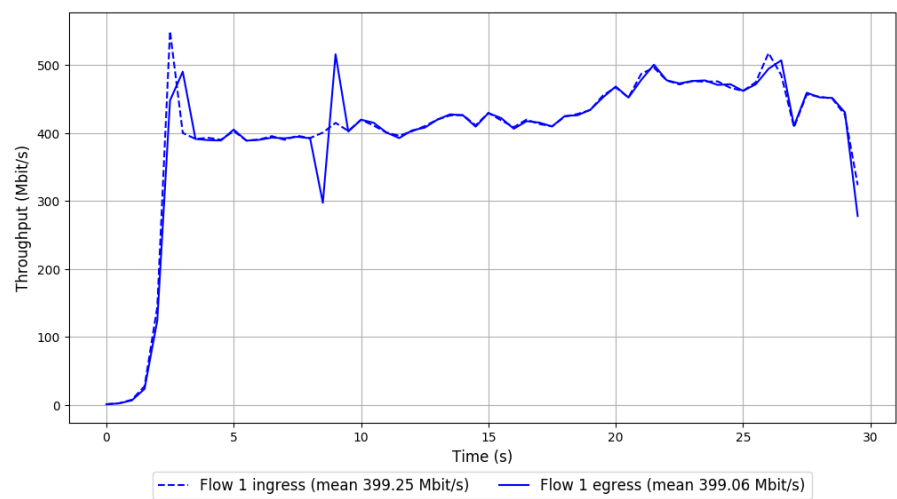
-- Flow 1:

Average throughput: 399.06 Mbit/s

95th percentile per-packet one-way delay: 69.454 ms

Loss rate: 0.38%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-20 01:41:02

End at: 2018-02-20 01:41:32

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 380.38 Mbit/s

95th percentile per-packet one-way delay: 114.781 ms

Loss rate: 1.27%

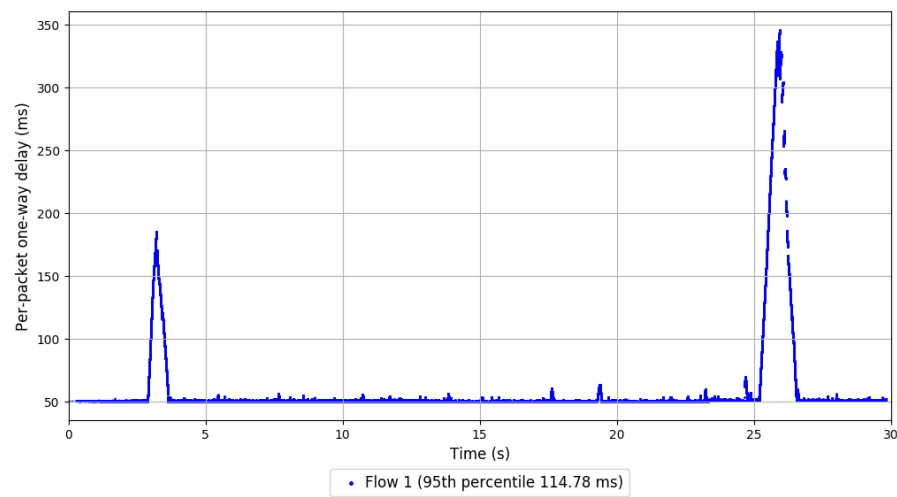
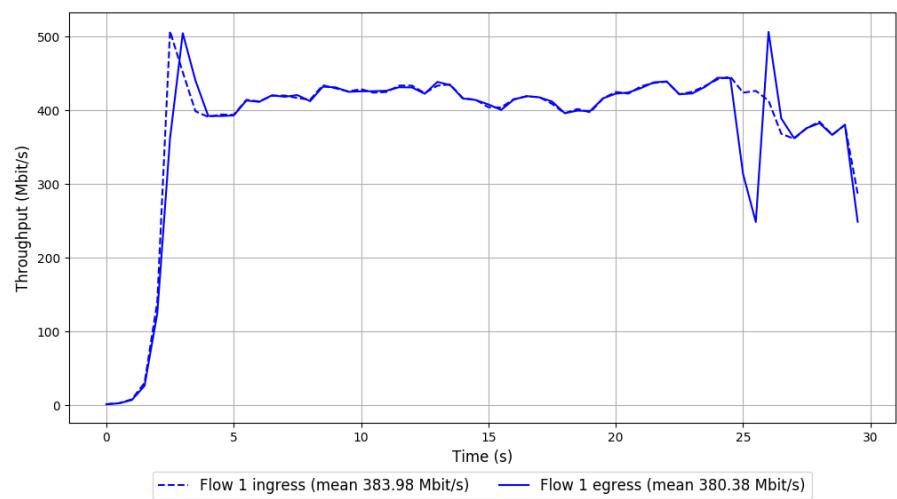
-- Flow 1:

Average throughput: 380.38 Mbit/s

95th percentile per-packet one-way delay: 114.781 ms

Loss rate: 1.27%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-20 01:55:49

End at: 2018-02-20 01:56:19

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 419.39 Mbit/s

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

Loss rate: 0.33%

-- Flow 1:

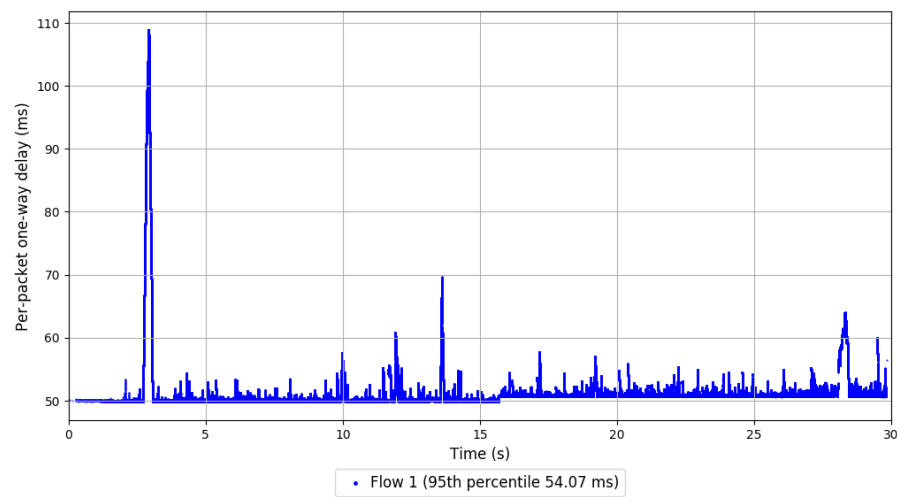
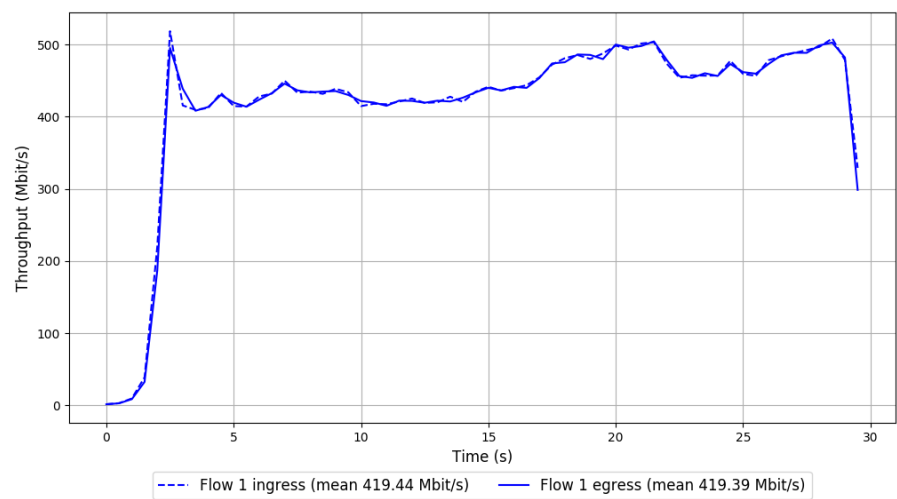
Average throughput: 419.39 Mbit/s

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

Loss rate: 0.33%



Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-20 02:10:36

End at: 2018-02-20 02:11:06

# Below is generated by plot.py at 2018-02-20 07:13:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 340.57 Mbit/s

95th percentile per-packet one-way delay: 51.851 ms

Loss rate: 0.40%

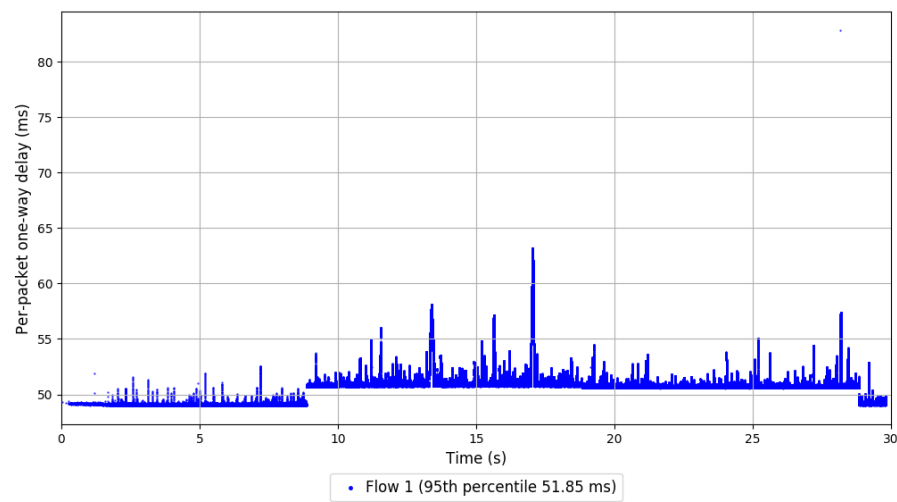
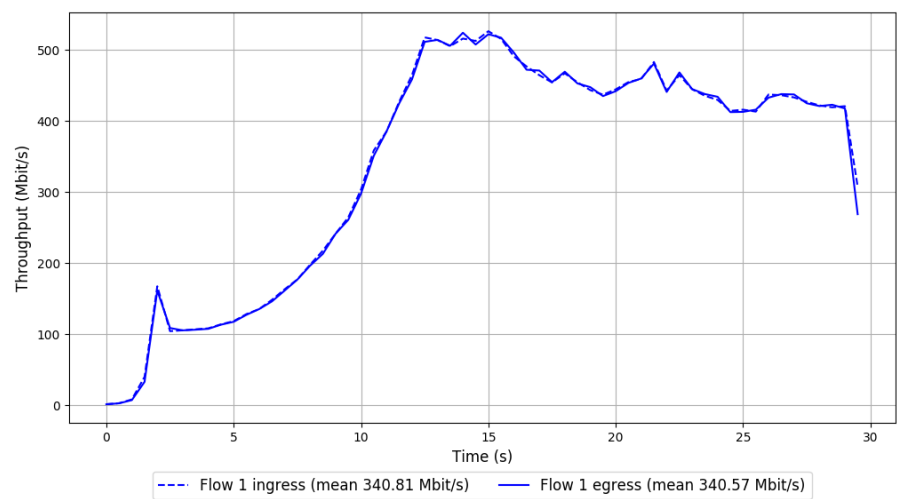
-- Flow 1:

Average throughput: 340.57 Mbit/s

95th percentile per-packet one-way delay: 51.851 ms

Loss rate: 0.40%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-20 02:25:24

End at: 2018-02-20 02:25:54

# Below is generated by plot.py at 2018-02-20 07:15:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 401.03 Mbit/s

95th percentile per-packet one-way delay: 51.336 ms

Loss rate: 0.39%

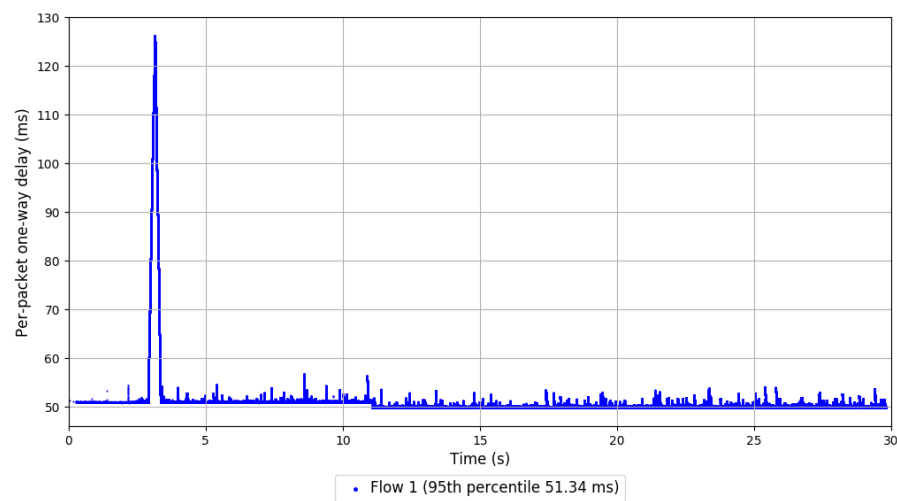
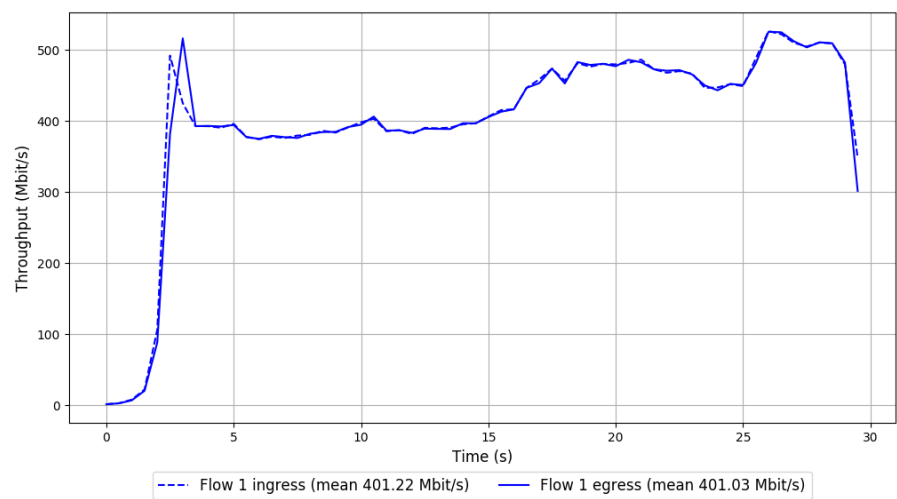
-- Flow 1:

Average throughput: 401.03 Mbit/s

95th percentile per-packet one-way delay: 51.336 ms

Loss rate: 0.39%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

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

End at: 2018-02-20 02:40:32

# Below is generated by plot.py at 2018-02-20 07:15:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 390.37 Mbit/s

95th percentile per-packet one-way delay: 140.773 ms

Loss rate: 1.08%

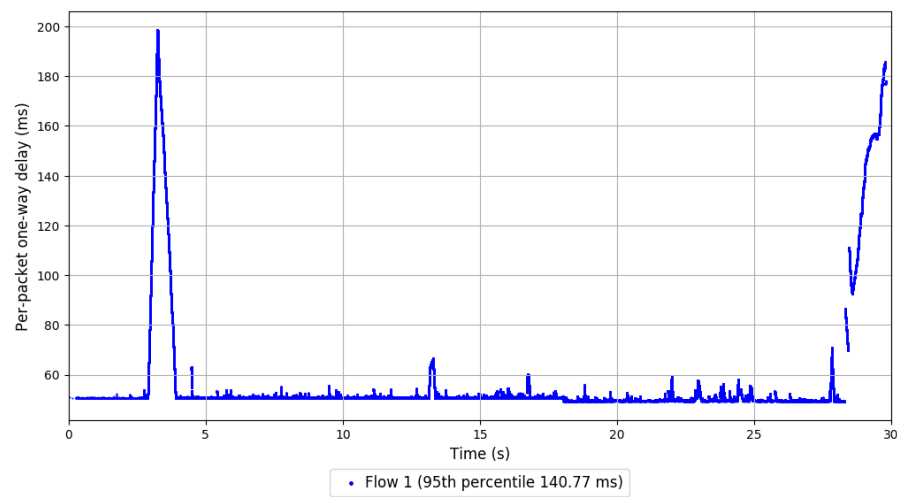
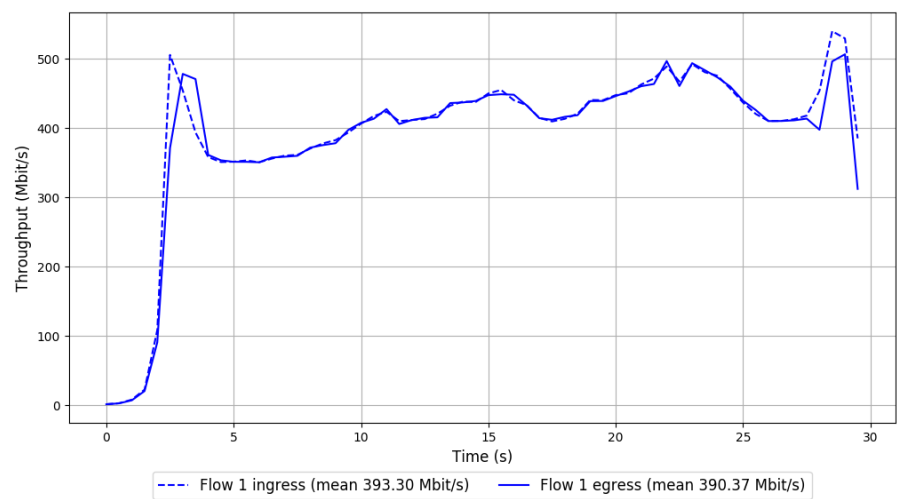
-- Flow 1:

Average throughput: 390.37 Mbit/s

95th percentile per-packet one-way delay: 140.773 ms

Loss rate: 1.08%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-20 02:54:43

End at: 2018-02-20 02:55:13

# Below is generated by plot.py at 2018-02-20 07:17:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 378.18 Mbit/s

95th percentile per-packet one-way delay: 80.420 ms

Loss rate: 0.68%

-- Flow 1:

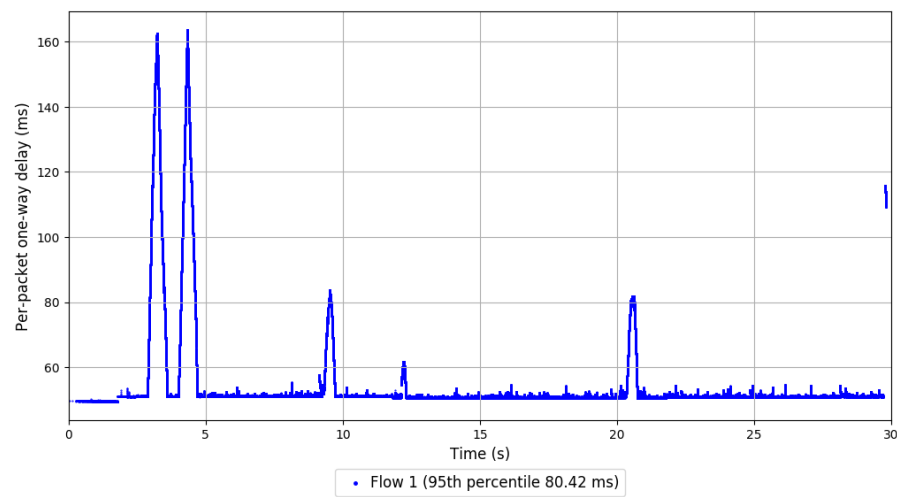
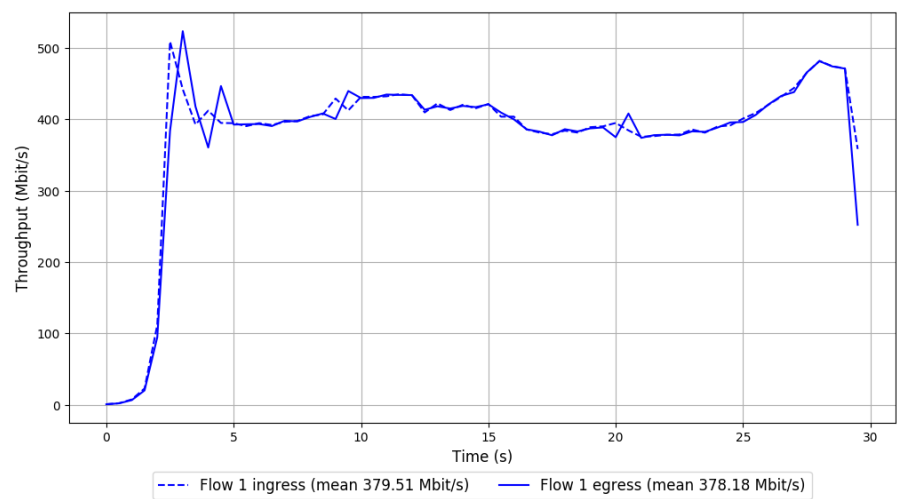
Average throughput: 378.18 Mbit/s

95th percentile per-packet one-way delay: 80.420 ms

Loss rate: 0.68%



Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-20 03:09:28

End at: 2018-02-20 03:09:58

# Below is generated by plot.py at 2018-02-20 07:17:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 387.21 Mbit/s

95th percentile per-packet one-way delay: 57.617 ms

Loss rate: 0.40%

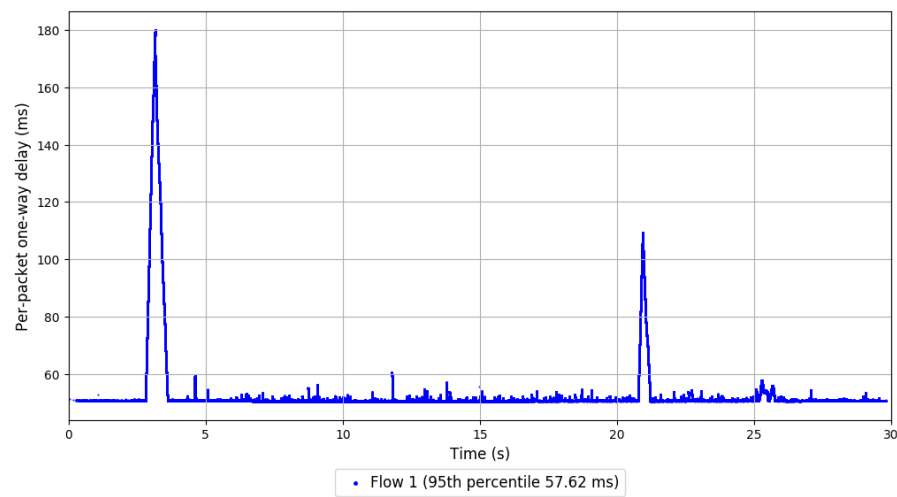
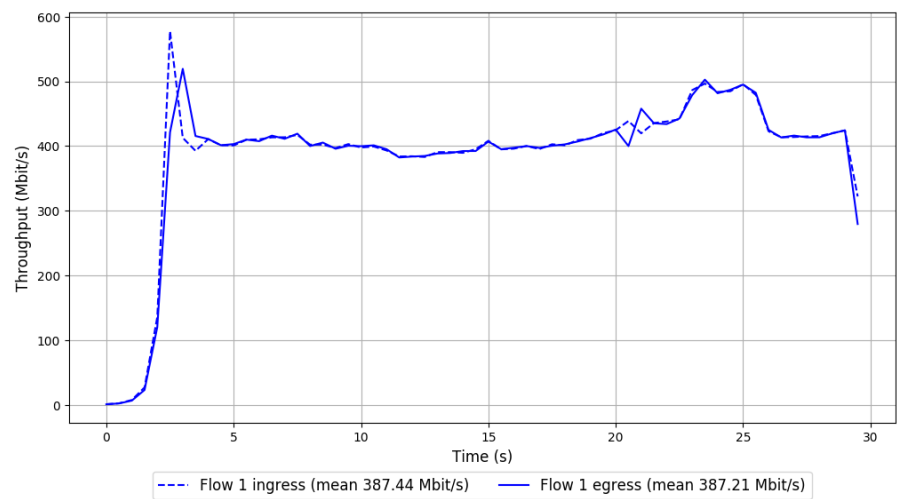
-- Flow 1:

Average throughput: 387.21 Mbit/s

95th percentile per-packet one-way delay: 57.617 ms

Loss rate: 0.40%

Run 10: Report of Vivace-latency — Data Link

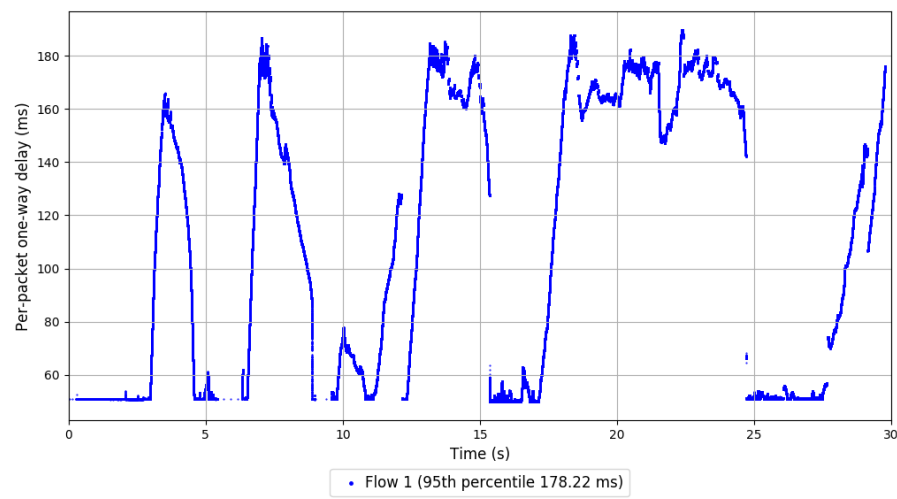
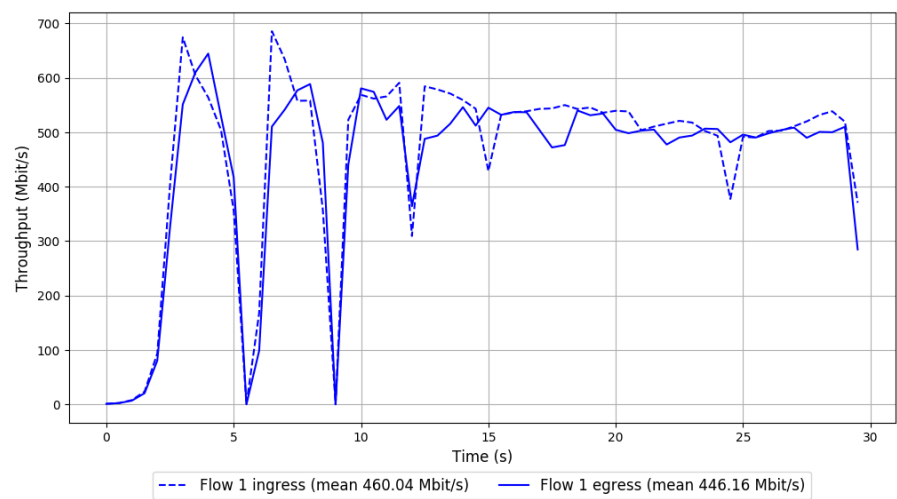


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-20 00:53:45
End at: 2018-02-20 00:54:15

# Below is generated by plot.py at 2018-02-20 07:18:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 446.16 Mbit/s
95th percentile per-packet one-way delay: 178.225 ms
Loss rate: 3.34%
-- Flow 1:
Average throughput: 446.16 Mbit/s
95th percentile per-packet one-way delay: 178.225 ms
Loss rate: 3.34%
```

Run 1: Report of Vivace-loss — Data Link

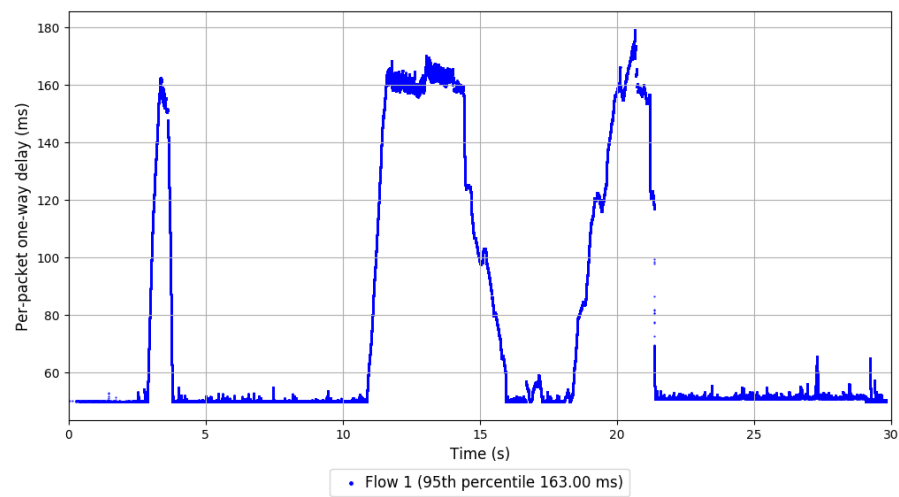
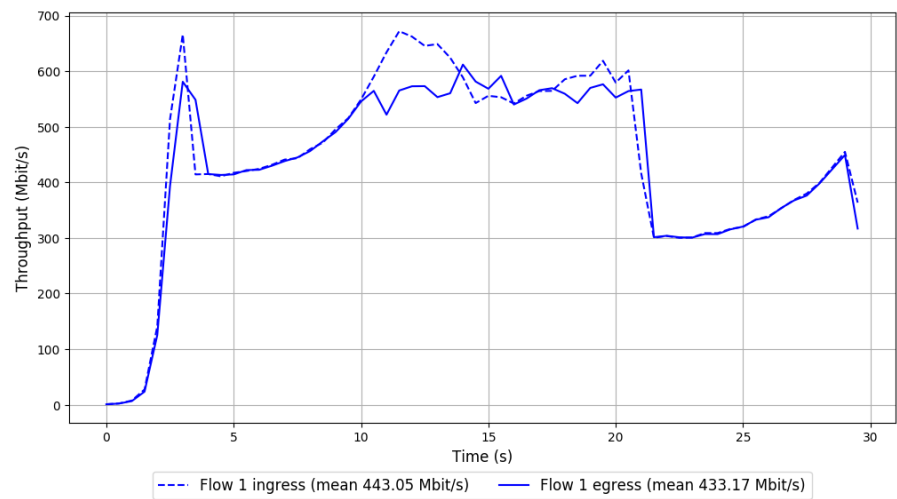


```
Run 2: Statistics of Vivace-loss

Start at: 2018-02-20 01:08:36
End at: 2018-02-20 01:09:06

# Below is generated by plot.py at 2018-02-20 07:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 433.17 Mbit/s
95th percentile per-packet one-way delay: 162.995 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 433.17 Mbit/s
95th percentile per-packet one-way delay: 162.995 ms
Loss rate: 2.56%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-20 01:23:36

End at: 2018-02-20 01:24:06

# Below is generated by plot.py at 2018-02-20 07:19:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 352.30 Mbit/s

95th percentile per-packet one-way delay: 195.263 ms

Loss rate: 9.81%

-- Flow 1:

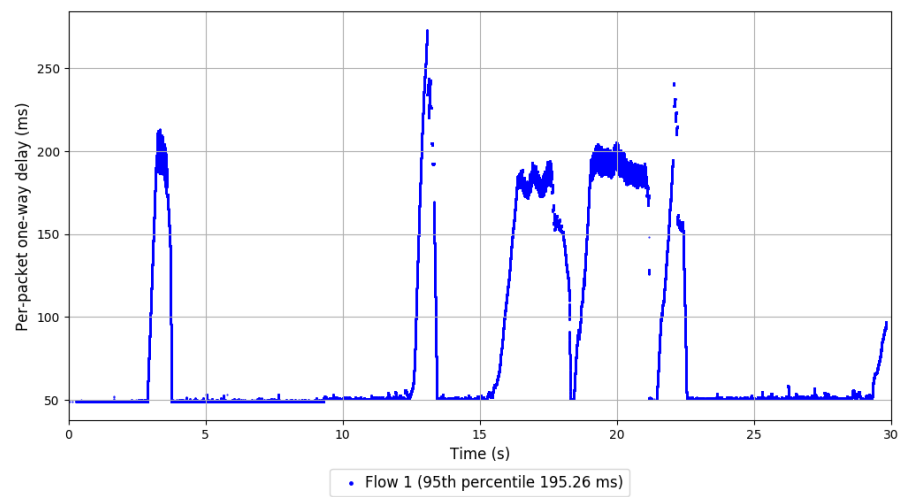
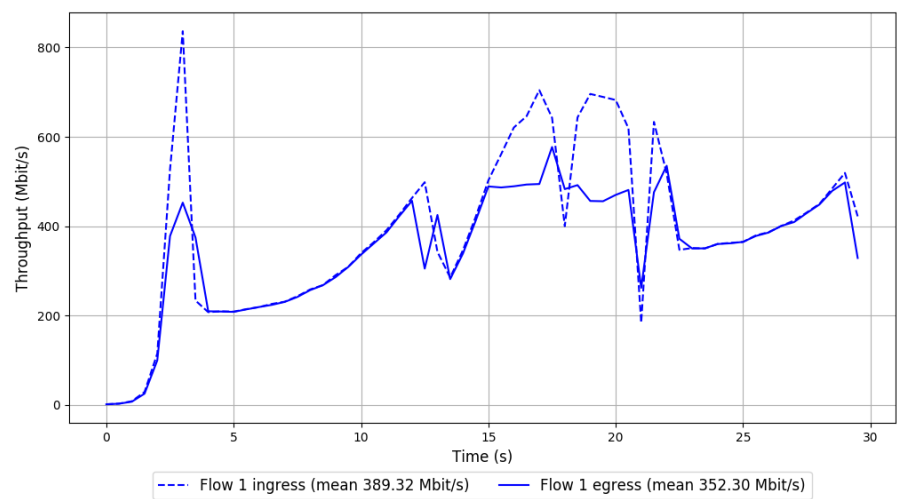
Average throughput: 352.30 Mbit/s

95th percentile per-packet one-way delay: 195.263 ms

Loss rate: 9.81%



Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-20 01:38:19

End at: 2018-02-20 01:38:49

# Below is generated by plot.py at 2018-02-20 07:19:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 332.82 Mbit/s

95th percentile per-packet one-way delay: 167.431 ms

Loss rate: 2.16%

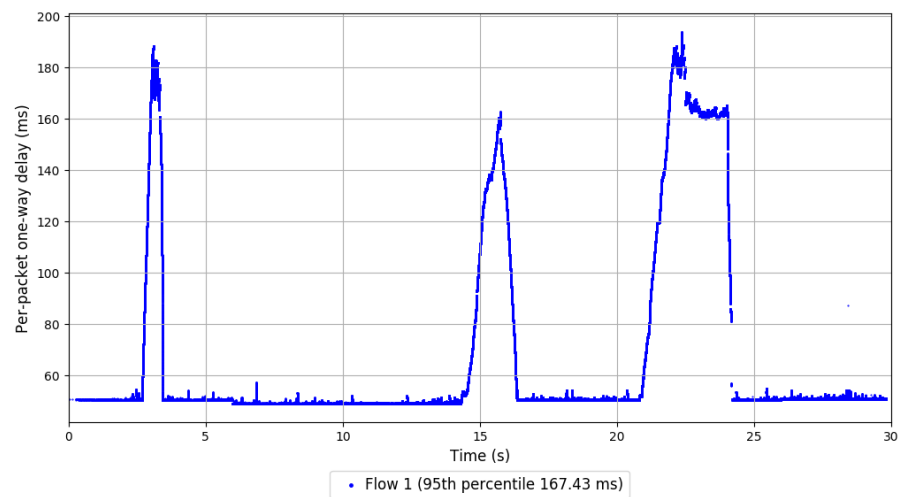
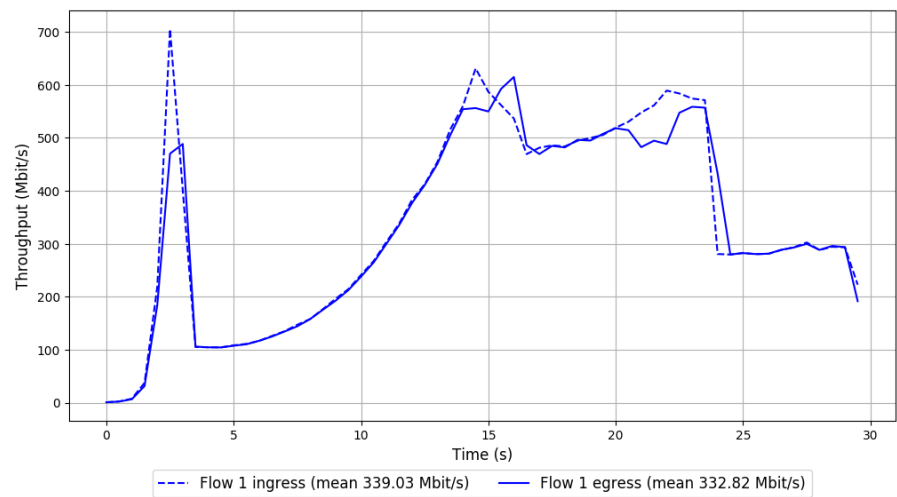
-- Flow 1:

Average throughput: 332.82 Mbit/s

95th percentile per-packet one-way delay: 167.431 ms

Loss rate: 2.16%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-20 01:53:02

End at: 2018-02-20 01:53:32

# Below is generated by plot.py at 2018-02-20 07:22:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 430.06 Mbit/s

95th percentile per-packet one-way delay: 182.956 ms

Loss rate: 3.38%

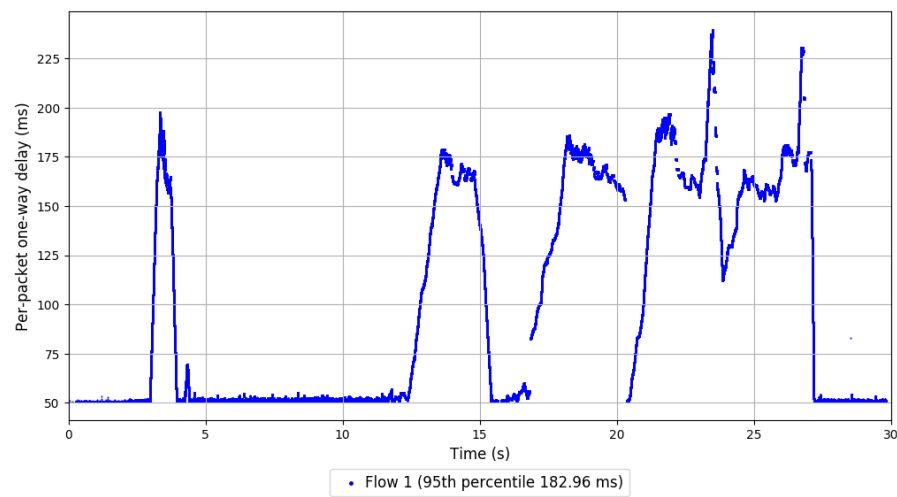
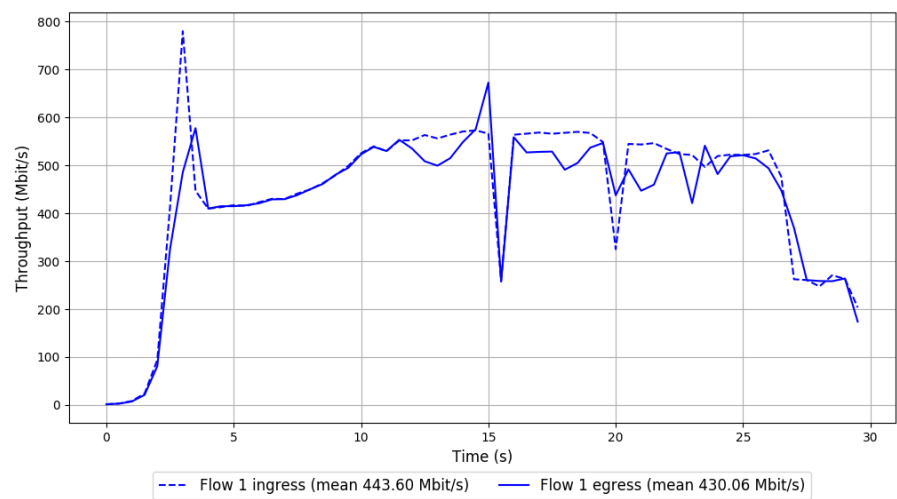
-- Flow 1:

Average throughput: 430.06 Mbit/s

95th percentile per-packet one-way delay: 182.956 ms

Loss rate: 3.38%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-20 02:07:51

End at: 2018-02-20 02:08:21

# Below is generated by plot.py at 2018-02-20 07:23:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 402.57 Mbit/s

95th percentile per-packet one-way delay: 185.065 ms

Loss rate: 6.42%

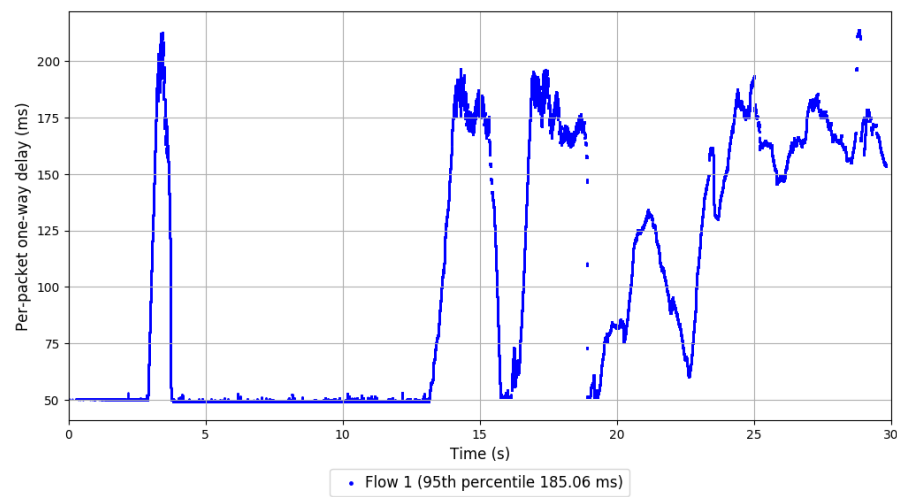
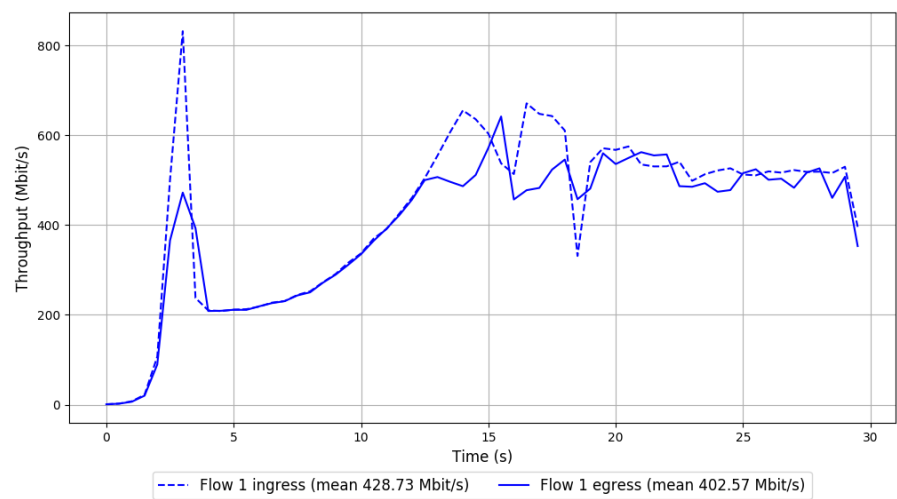
-- Flow 1:

Average throughput: 402.57 Mbit/s

95th percentile per-packet one-way delay: 185.065 ms

Loss rate: 6.42%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-20 02:22:33

End at: 2018-02-20 02:23:03

# Below is generated by plot.py at 2018-02-20 07:25:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 465.48 Mbit/s

95th percentile per-packet one-way delay: 173.260 ms

Loss rate: 3.21%

-- Flow 1:

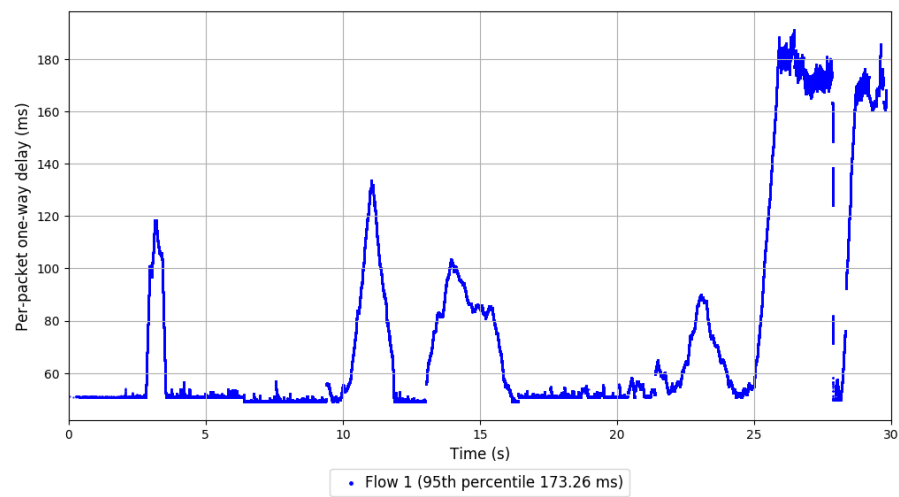
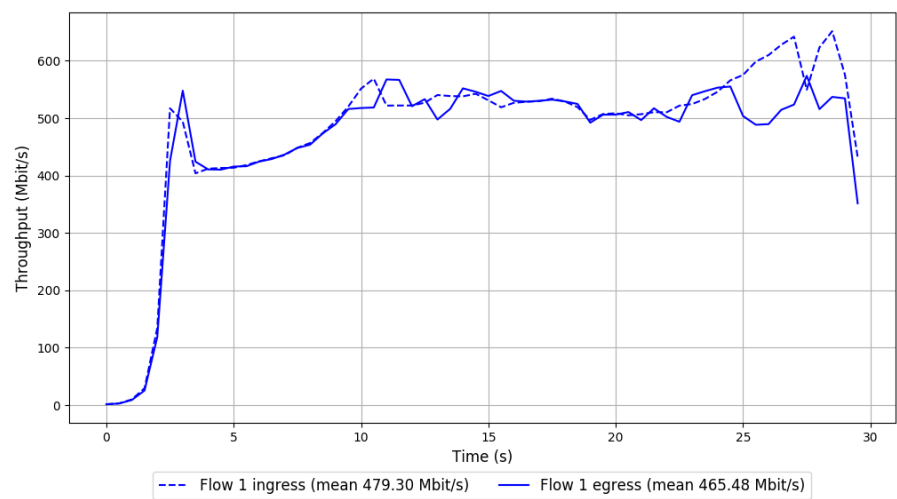
Average throughput: 465.48 Mbit/s

95th percentile per-packet one-way delay: 173.260 ms

Loss rate: 3.21%



Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-20 02:37:15

End at: 2018-02-20 02:37:45

# Below is generated by plot.py at 2018-02-20 07:25:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 385.95 Mbit/s

95th percentile per-packet one-way delay: 185.291 ms

Loss rate: 3.81%

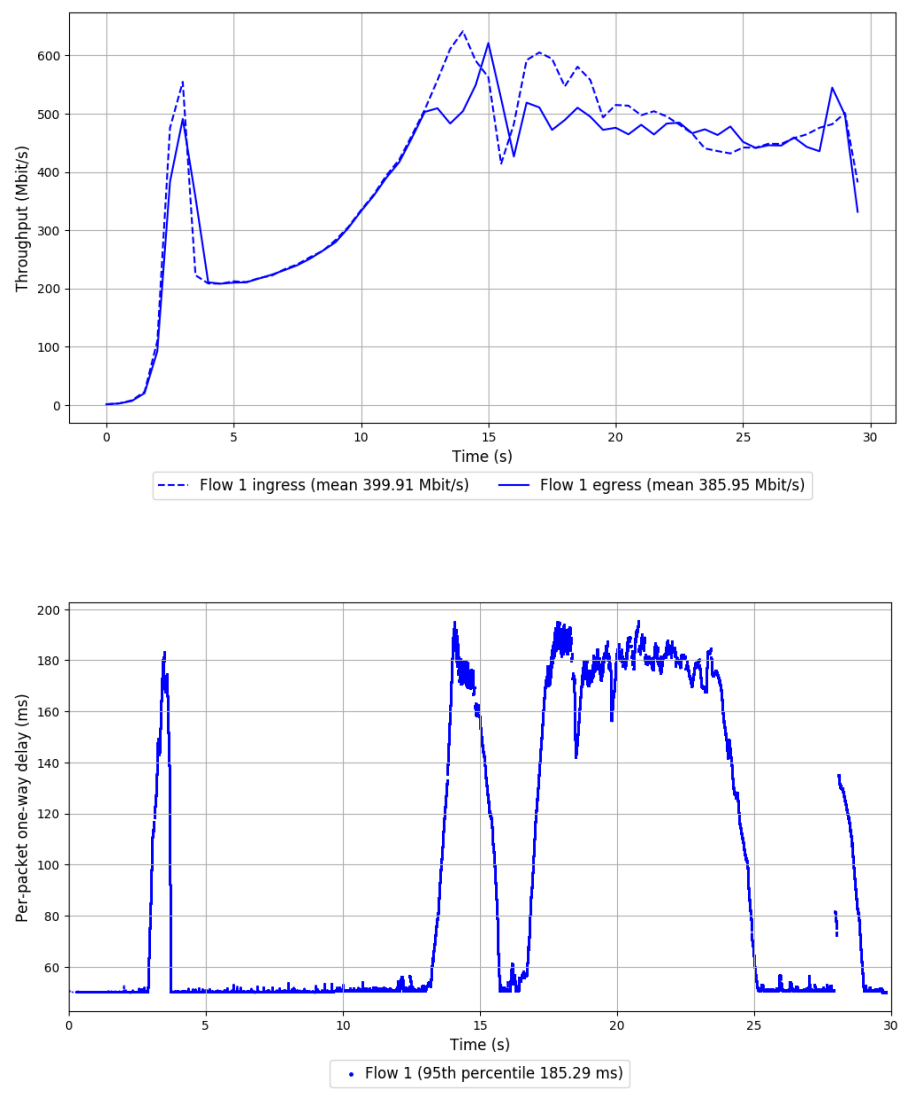
-- Flow 1:

Average throughput: 385.95 Mbit/s

95th percentile per-packet one-way delay: 185.291 ms

Loss rate: 3.81%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

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

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

# Below is generated by plot.py at 2018-02-20 07:25:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 380.63 Mbit/s

95th percentile per-packet one-way delay: 182.135 ms

Loss rate: 6.55%

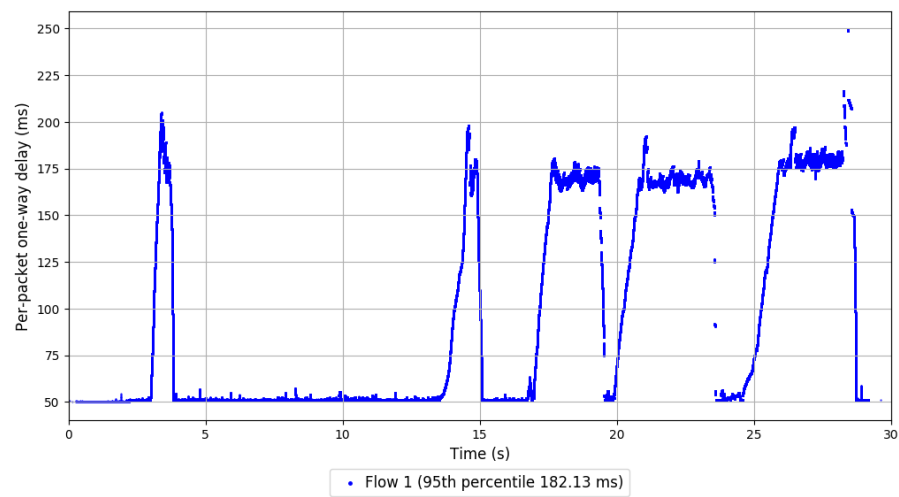
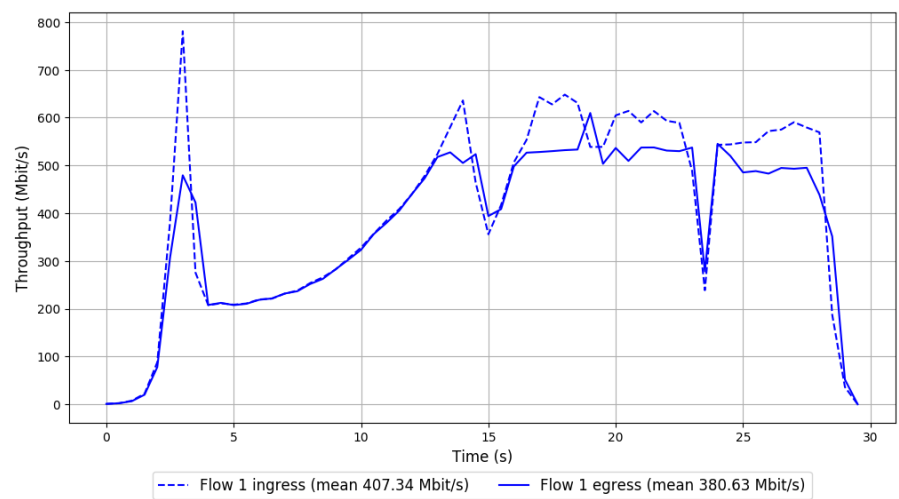
-- Flow 1:

Average throughput: 380.63 Mbit/s

95th percentile per-packet one-way delay: 182.135 ms

Loss rate: 6.55%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-20 03:06:43

End at: 2018-02-20 03:07:13

# Below is generated by plot.py at 2018-02-20 07:26:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 420.76 Mbit/s

95th percentile per-packet one-way delay: 175.819 ms

Loss rate: 3.71%

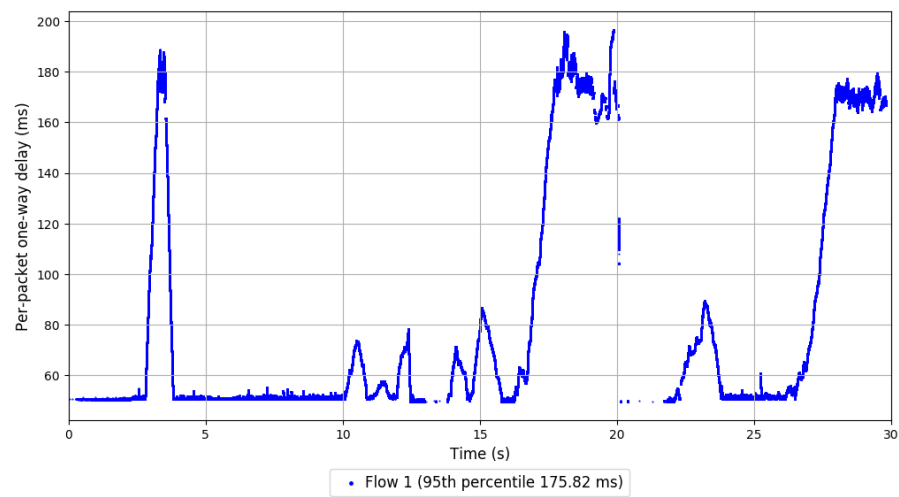
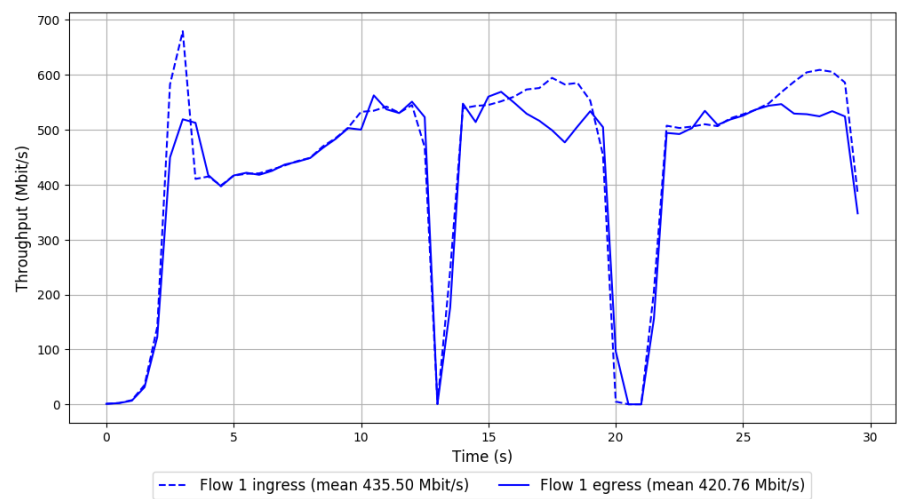
-- Flow 1:

Average throughput: 420.76 Mbit/s

95th percentile per-packet one-way delay: 175.819 ms

Loss rate: 3.71%

Run 10: Report of Vivace-loss — Data Link



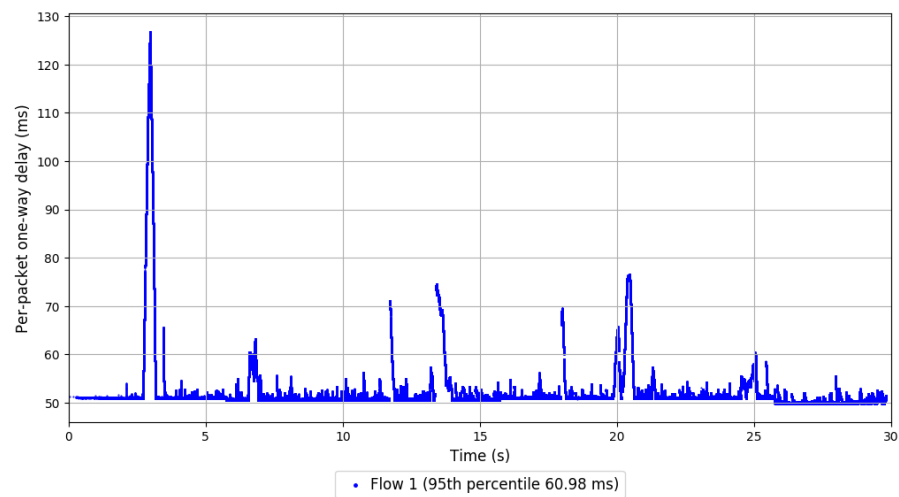
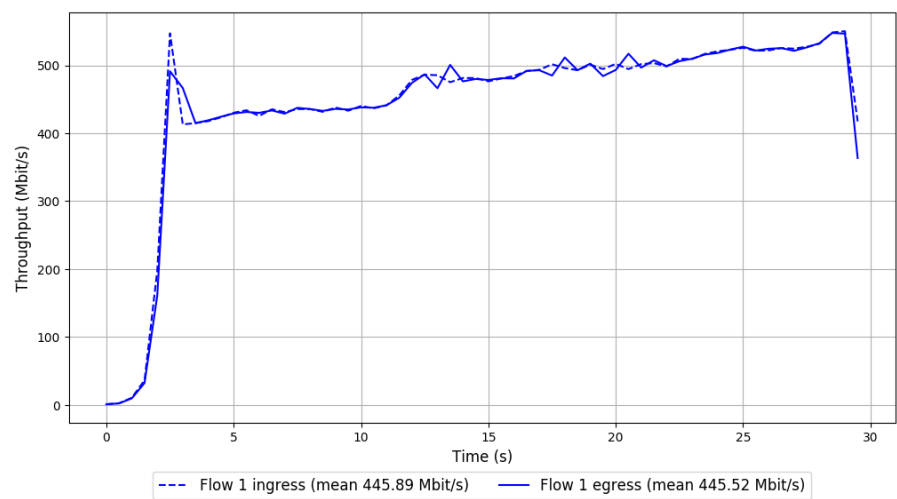
```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-20 01:01:19
End at: 2018-02-20 01:01:49

# Below is generated by plot.py at 2018-02-20 07:26:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 445.52 Mbit/s
95th percentile per-packet one-way delay: 60.982 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 445.52 Mbit/s
95th percentile per-packet one-way delay: 60.982 ms
Loss rate: 0.42%
```



Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-20 01:16:18

End at: 2018-02-20 01:16:48

# Below is generated by plot.py at 2018-02-20 07:27:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 442.47 Mbit/s

95th percentile per-packet one-way delay: 66.492 ms

Loss rate: 0.48%

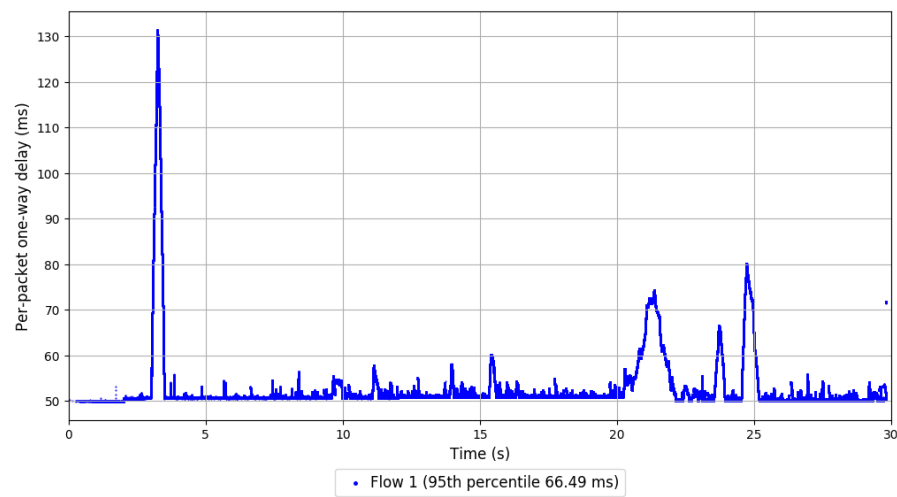
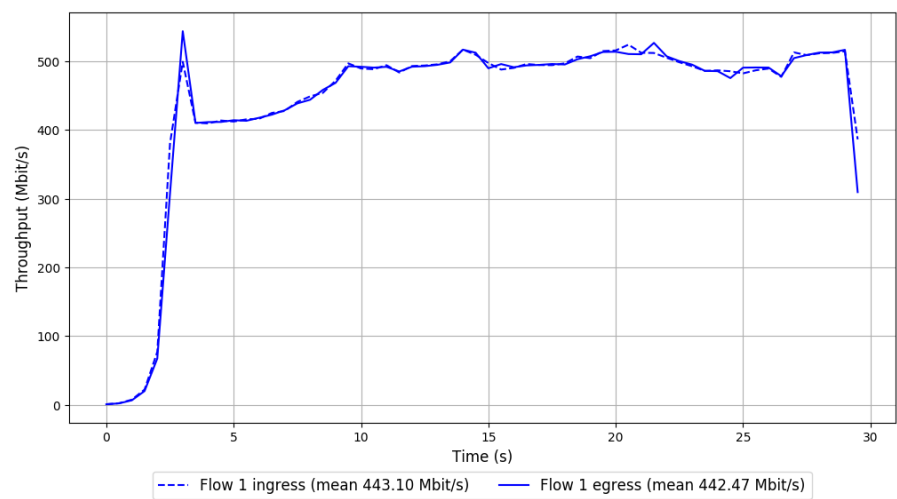
-- Flow 1:

Average throughput: 442.47 Mbit/s

95th percentile per-packet one-way delay: 66.492 ms

Loss rate: 0.48%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-20 01:31:05

End at: 2018-02-20 01:31:35

# Below is generated by plot.py at 2018-02-20 07:30:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 400.80 Mbit/s

95th percentile per-packet one-way delay: 134.826 ms

Loss rate: 0.41%

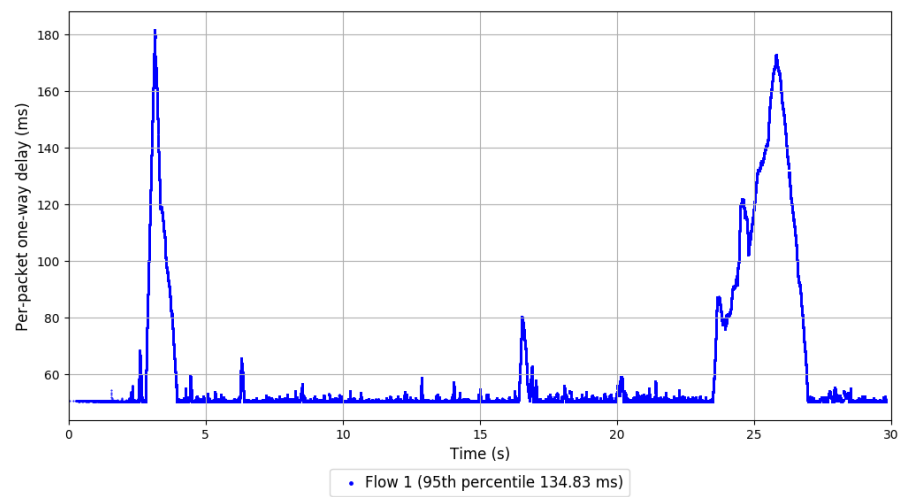
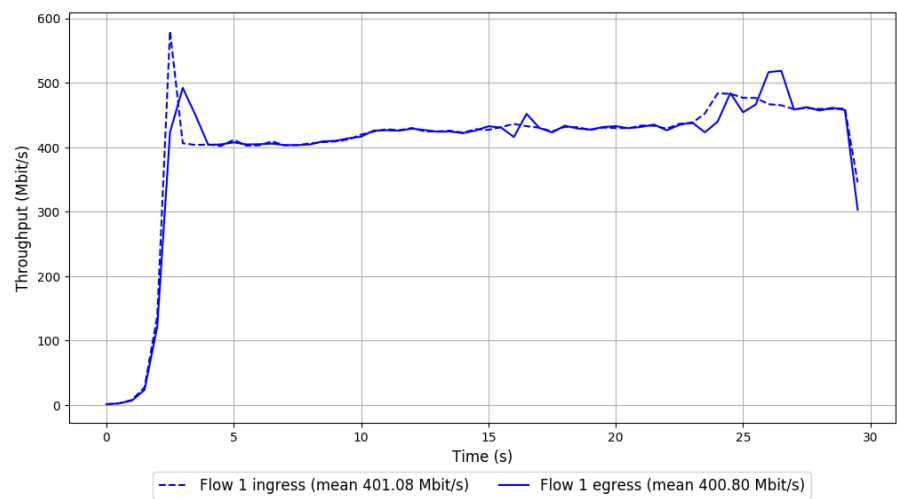
-- Flow 1:

Average throughput: 400.80 Mbit/s

95th percentile per-packet one-way delay: 134.826 ms

Loss rate: 0.41%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-20 01:45:45

End at: 2018-02-20 01:46:15

# Below is generated by plot.py at 2018-02-20 07:30:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 420.53 Mbit/s

95th percentile per-packet one-way delay: 58.977 ms

Loss rate: 0.45%

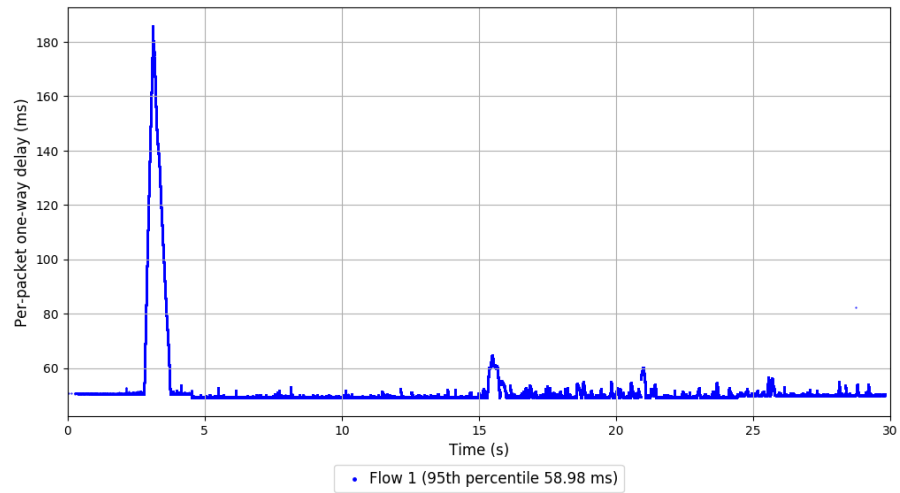
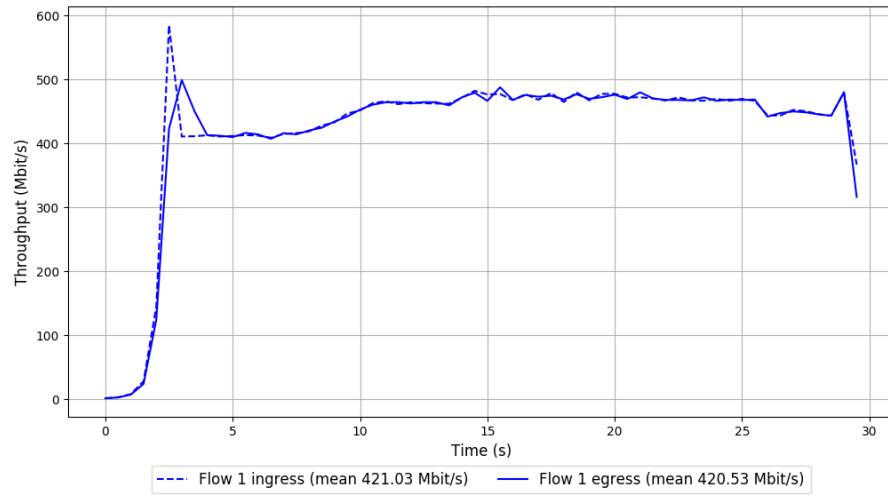
-- Flow 1:

Average throughput: 420.53 Mbit/s

95th percentile per-packet one-way delay: 58.977 ms

Loss rate: 0.45%

#### Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-20 02:00:37

End at: 2018-02-20 02:01:07

# Below is generated by plot.py at 2018-02-20 07:31:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 407.41 Mbit/s

95th percentile per-packet one-way delay: 61.969 ms

Loss rate: 0.42%

-- Flow 1:

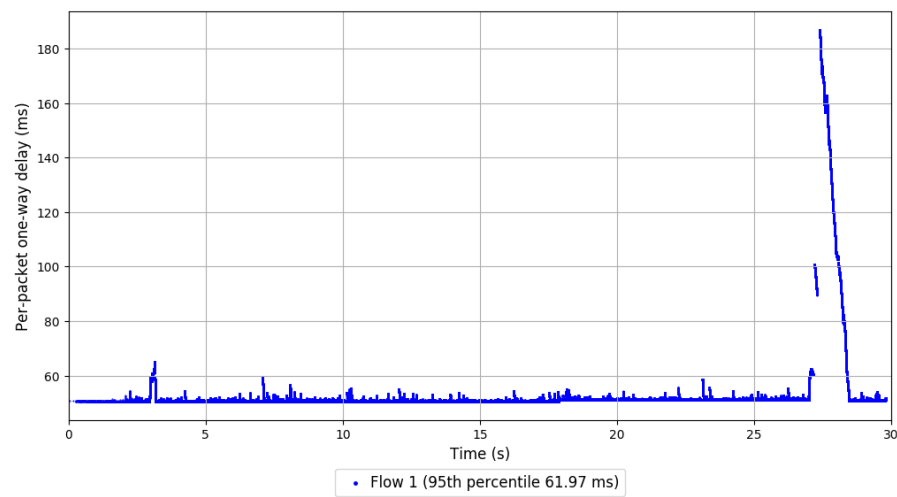
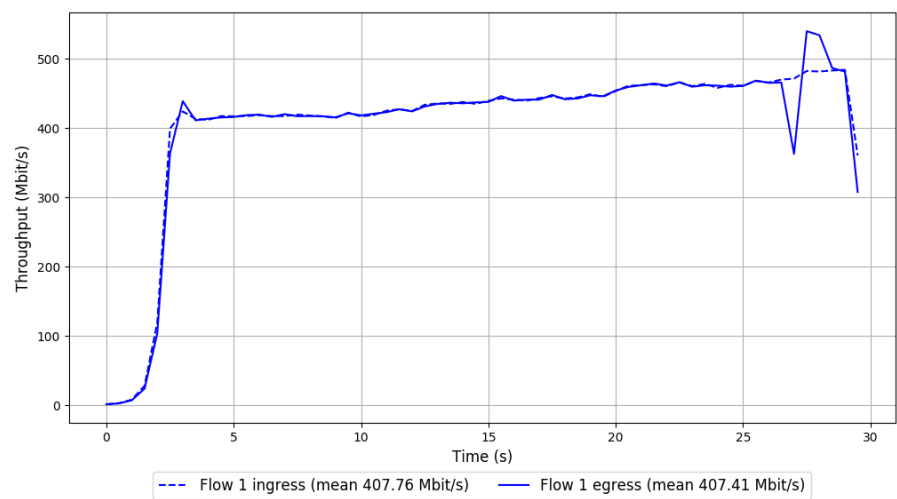
Average throughput: 407.41 Mbit/s

95th percentile per-packet one-way delay: 61.969 ms

Loss rate: 0.42%



Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-20 02:15:18

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

# Below is generated by plot.py at 2018-02-20 07:32:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 437.67 Mbit/s

95th percentile per-packet one-way delay: 103.088 ms

Loss rate: 0.51%

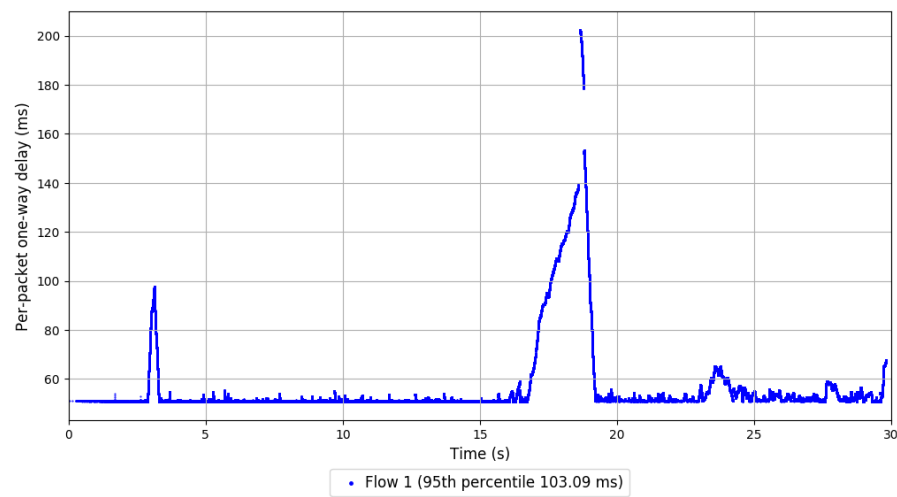
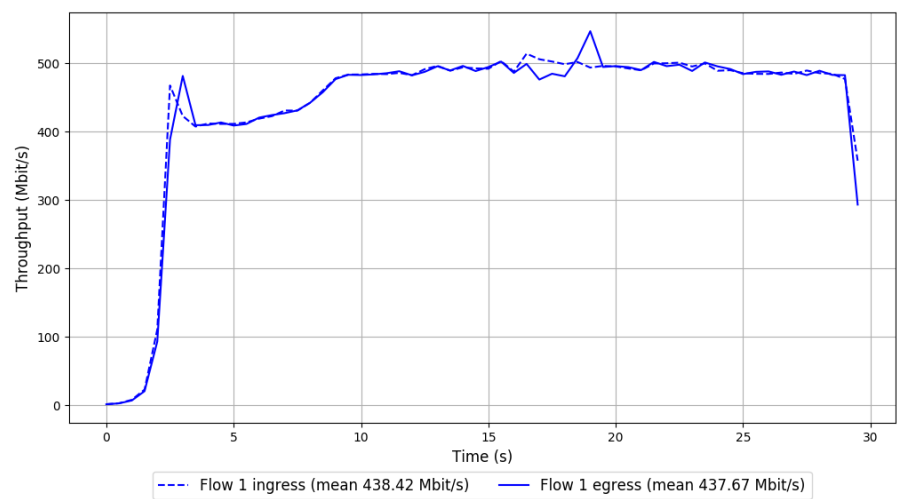
-- Flow 1:

Average throughput: 437.67 Mbit/s

95th percentile per-packet one-way delay: 103.088 ms

Loss rate: 0.51%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-20 02:30:04

End at: 2018-02-20 02:30:34

# Below is generated by plot.py at 2018-02-20 07:32:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 417.99 Mbit/s

95th percentile per-packet one-way delay: 171.754 ms

Loss rate: 0.85%

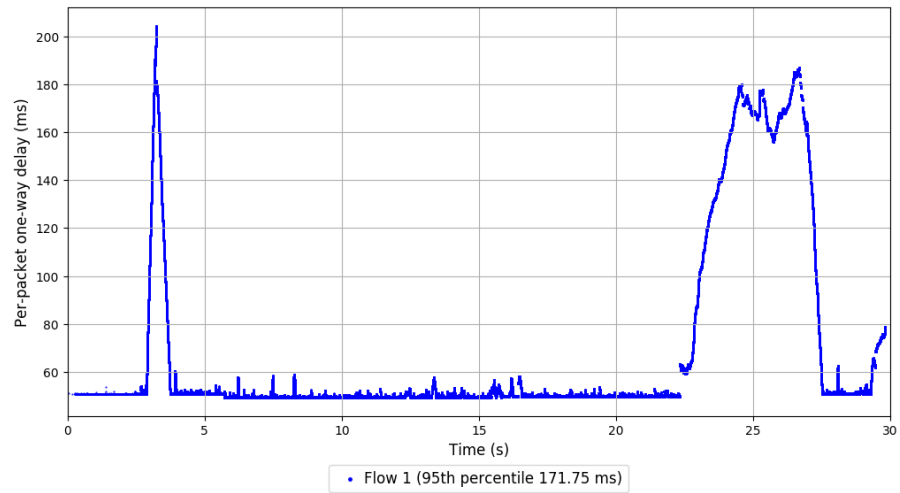
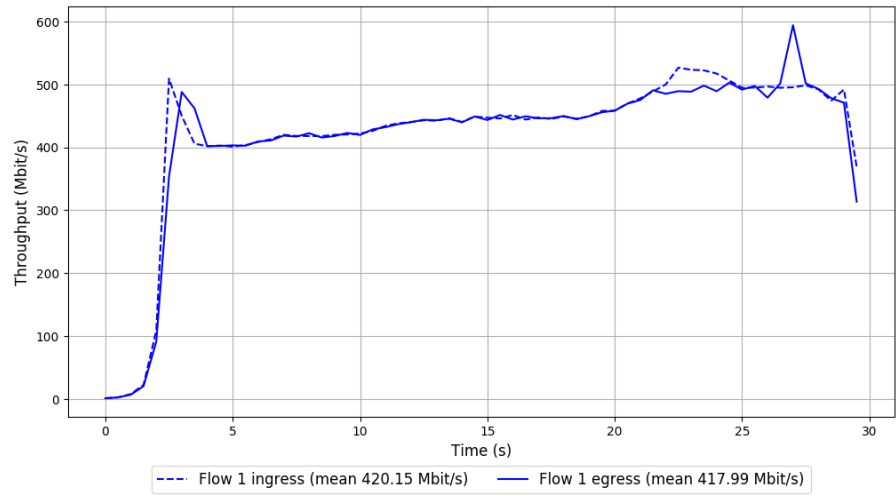
-- Flow 1:

Average throughput: 417.99 Mbit/s

95th percentile per-packet one-way delay: 171.754 ms

Loss rate: 0.85%

## Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

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

End at: 2018-02-20 02:45:14

# Below is generated by plot.py at 2018-02-20 07:32:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 365.70 Mbit/s

95th percentile per-packet one-way delay: 123.587 ms

Loss rate: 0.50%

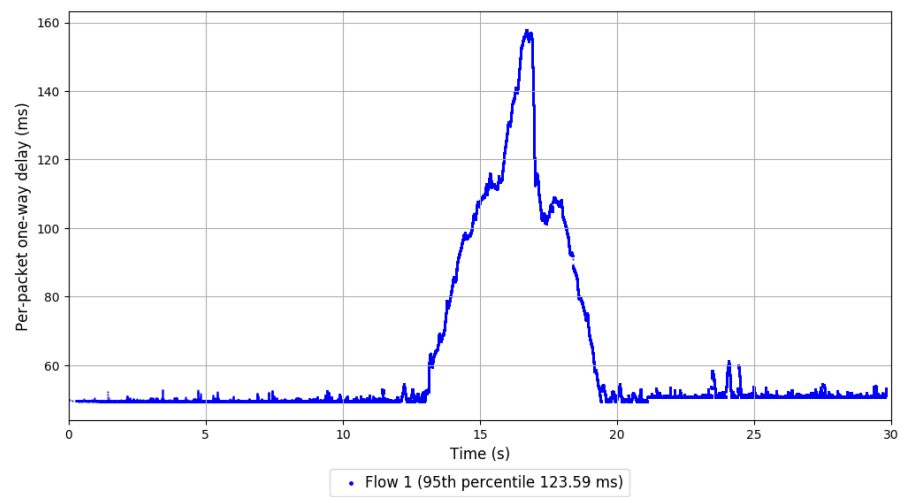
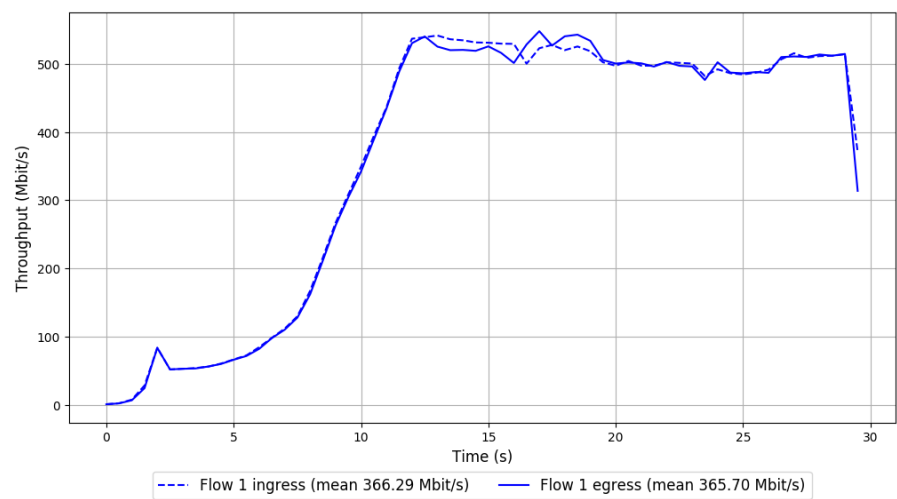
-- Flow 1:

Average throughput: 365.70 Mbit/s

95th percentile per-packet one-way delay: 123.587 ms

Loss rate: 0.50%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-20 02:59:30

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

# Below is generated by plot.py at 2018-02-20 07:32:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 375.39 Mbit/s

95th percentile per-packet one-way delay: 97.302 ms

Loss rate: 1.37%

-- Flow 1:

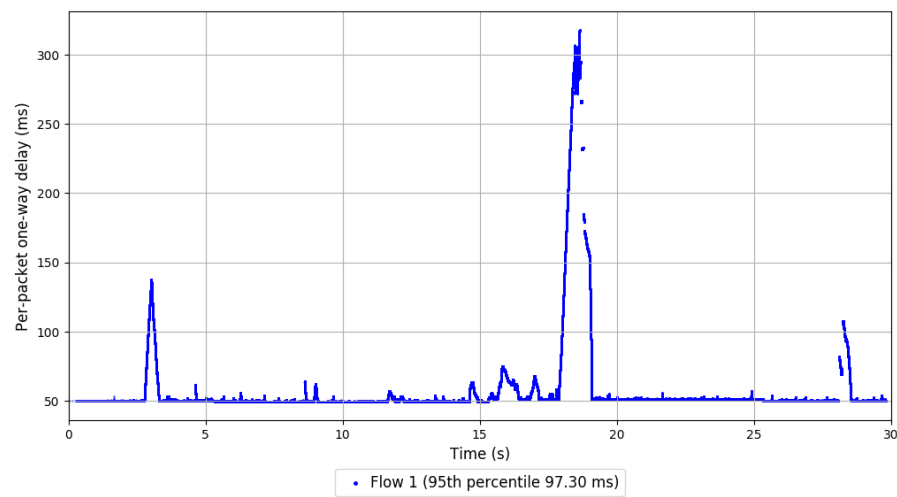
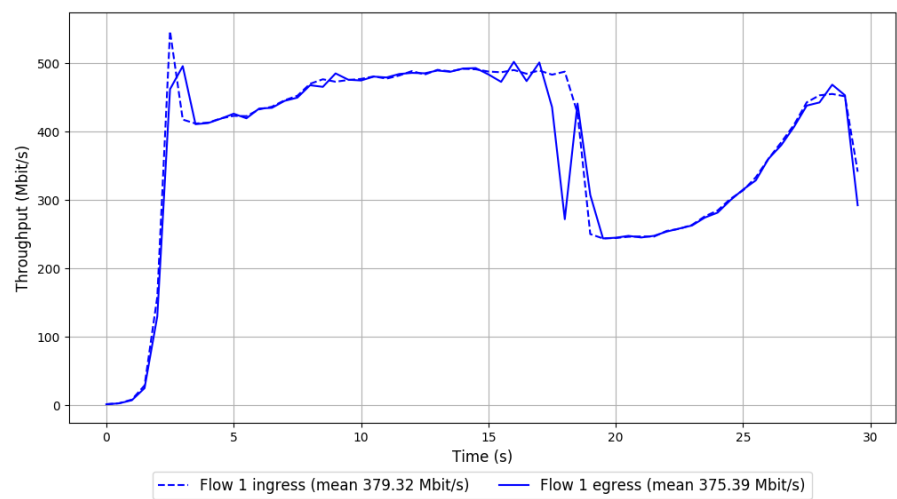
Average throughput: 375.39 Mbit/s

95th percentile per-packet one-way delay: 97.302 ms

Loss rate: 1.37%



Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-20 03:14:19

End at: 2018-02-20 03:14:49

# Below is generated by plot.py at 2018-02-20 07:32:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 449.13 Mbit/s

95th percentile per-packet one-way delay: 58.744 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 449.13 Mbit/s

95th percentile per-packet one-way delay: 58.744 ms

Loss rate: 0.41%

Run 10: Report of Vivace-LTE — Data Link

