

## Pantheon Report

Generated at 2017-10-11 09:31:56 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

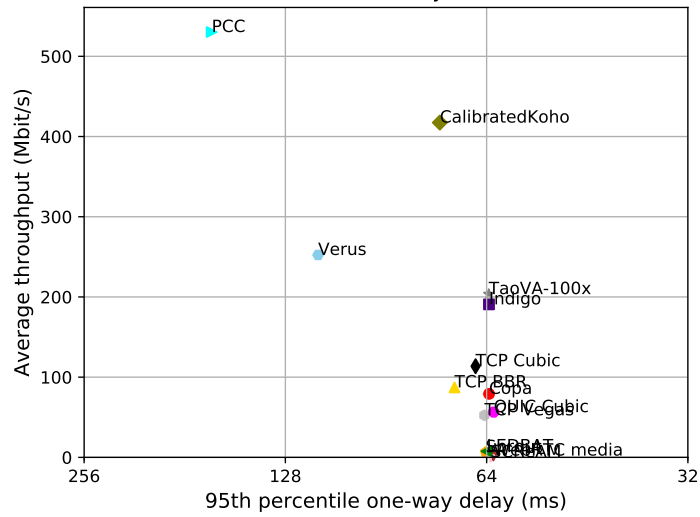
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

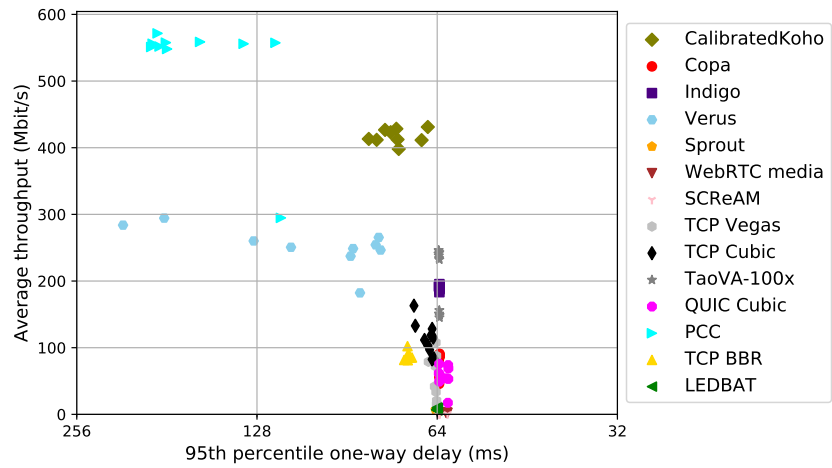
Git summary:

```
branch: indigos @ 45998d6404be7c5106956530acb9cfc43bd06e7d
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



| 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     | 87.21                            | 71.49                               | 0.04                         |
| TCP Cubic      | 10     | 113.64                           | 66.49                               | 0.00                         |
| LEDBAT         | 10     | 7.56                             | 64.02                               | 0.03                         |
| PCC            | 10     | 530.29                           | 164.99                              | 0.89                         |
| QUIC Cubic     | 10     | 56.38                            | 62.45                               | 0.00                         |
| SCReAM         | 5      | 0.22                             | 63.14                               | 0.00                         |
| WebRTC media   | 9      | 2.24                             | 62.53                               | 0.00                         |
| Sprout         | 10     | 6.53                             | 64.24                               | 0.06                         |
| TaoVA-100x     | 10     | 203.54                           | 63.53                               | 0.00                         |
| TCP Vegas      | 9      | 52.44                            | 64.49                               | 0.00                         |
| Verus          | 10     | 252.33                           | 114.37                              | 0.13                         |
| Copa           | 9      | 79.18                            | 63.47                               | 0.00                         |
| CalibratedKoho | 9      | 417.36                           | 75.19                               | 0.01                         |
| Indigo         | 10     | 190.75                           | 63.48                               | 0.00                         |

Run 1: Statistics of TCP BBR

Start at: 2017-10-11 06:12:33

End at: 2017-10-11 06:13:03

# Below is generated by plot.py at 2017-10-11 08:44:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.81 Mbit/s

95th percentile per-packet one-way delay: 70.987 ms

Loss rate: 0.12%

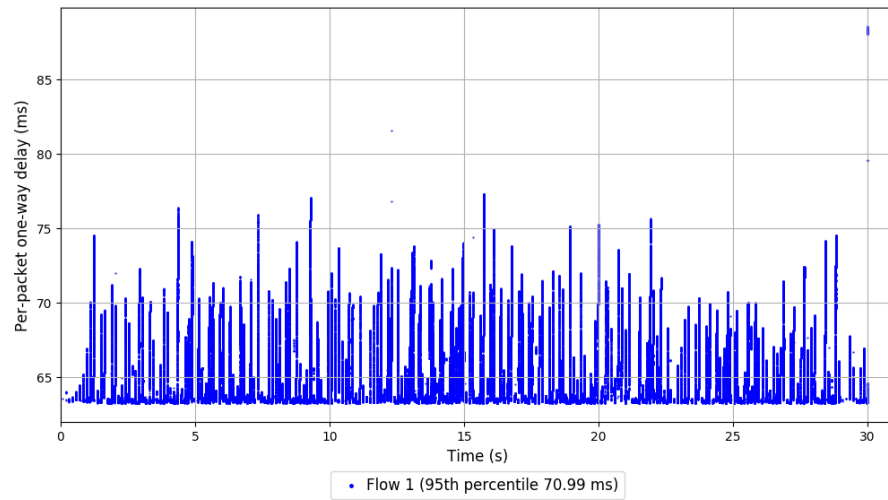
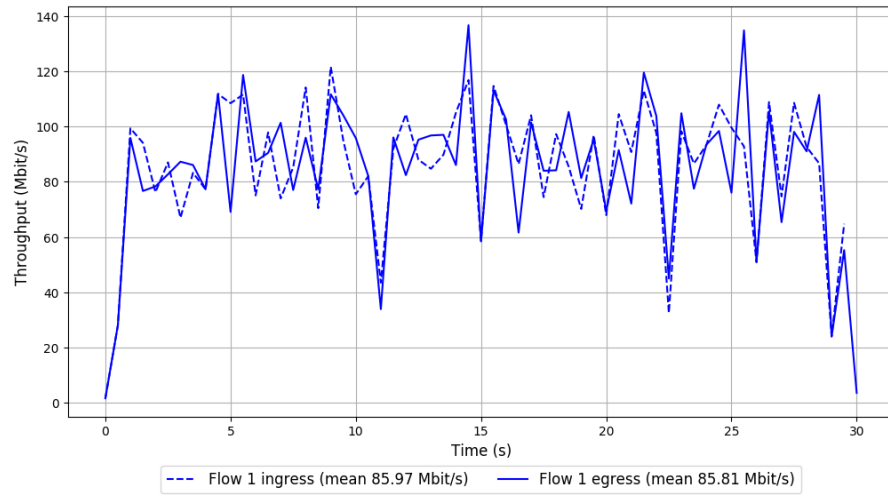
-- Flow 1:

Average throughput: 85.81 Mbit/s

95th percentile per-packet one-way delay: 70.987 ms

Loss rate: 0.12%

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



Run 2: Statistics of TCP BBR

Start at: 2017-10-11 06:23:25

End at: 2017-10-11 06:23:55

# Below is generated by plot.py at 2017-10-11 08:45:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 102.28 Mbit/s

95th percentile per-packet one-way delay: 71.739 ms

Loss rate: 0.29%

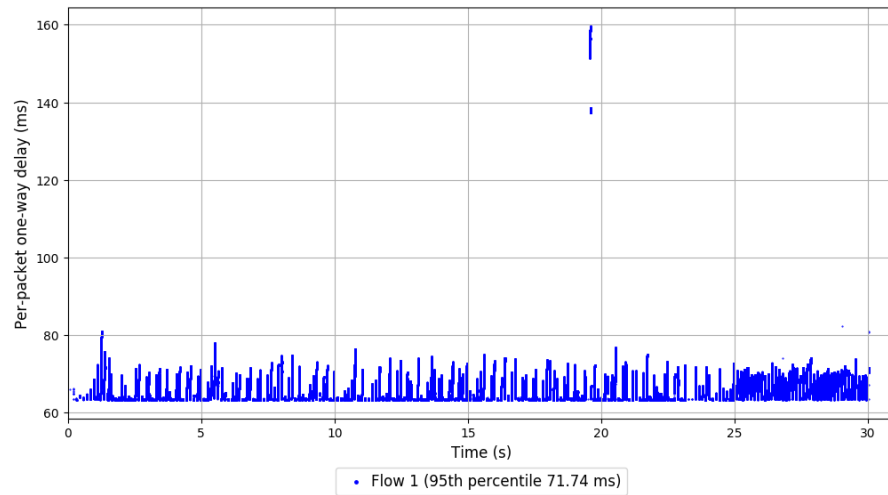
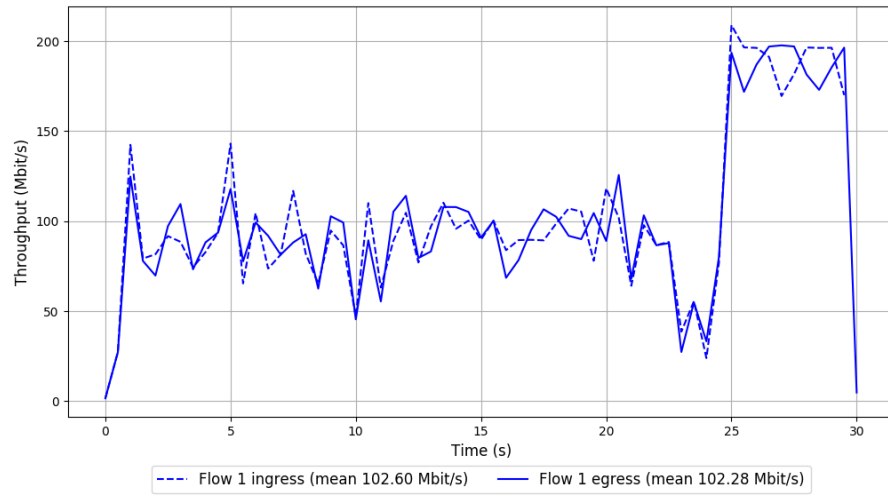
-- Flow 1:

Average throughput: 102.28 Mbit/s

95th percentile per-packet one-way delay: 71.739 ms

Loss rate: 0.29%

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



Run 3: Statistics of TCP BBR

Start at: 2017-10-11 06:34:15

End at: 2017-10-11 06:34:45

# Below is generated by plot.py at 2017-10-11 08:45:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.75 Mbit/s

95th percentile per-packet one-way delay: 71.431 ms

Loss rate: 0.00%

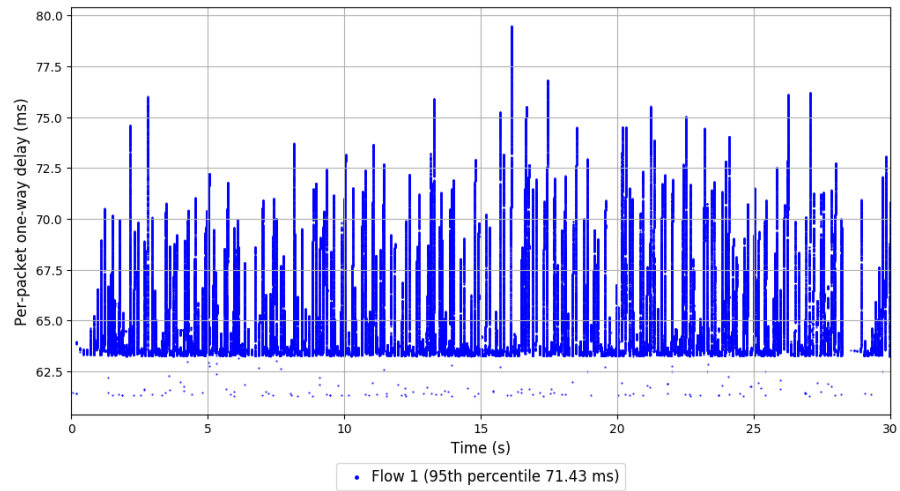
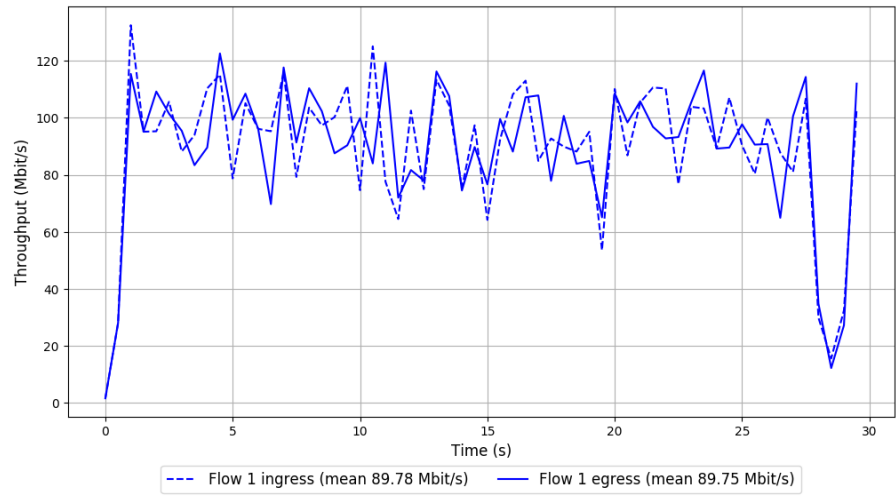
-- Flow 1:

Average throughput: 89.75 Mbit/s

95th percentile per-packet one-way delay: 71.431 ms

Loss rate: 0.00%

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



Run 4: Statistics of TCP BBR

Start at: 2017-10-11 06:45:03

End at: 2017-10-11 06:45:33

# Below is generated by plot.py at 2017-10-11 08:45:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.15 Mbit/s

95th percentile per-packet one-way delay: 72.196 ms

Loss rate: 0.00%

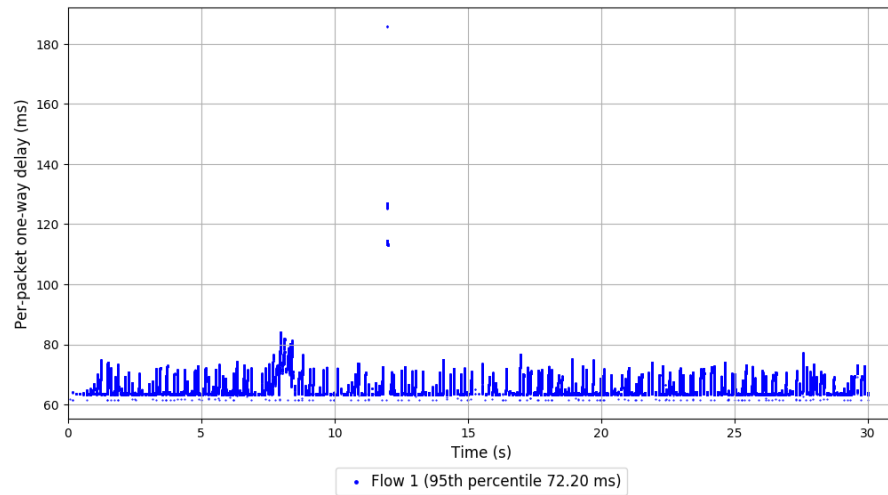
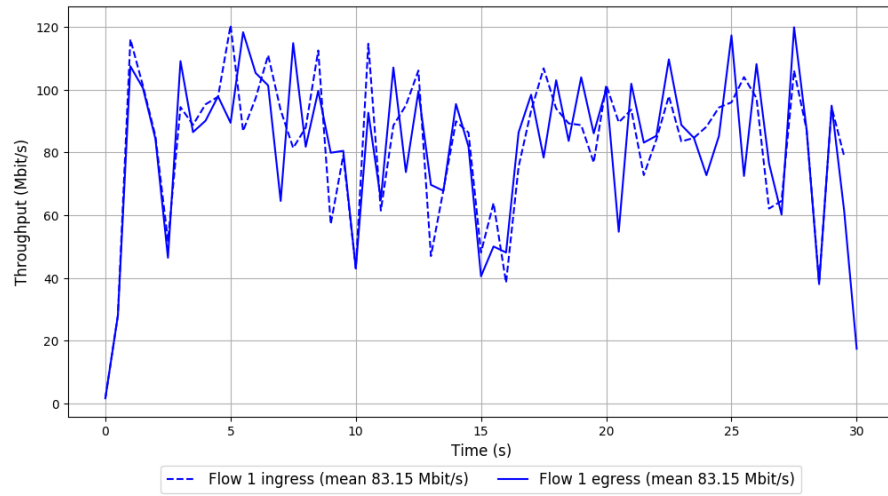
-- Flow 1:

Average throughput: 83.15 Mbit/s

95th percentile per-packet one-way delay: 72.196 ms

Loss rate: 0.00%

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



Run 5: Statistics of TCP BBR

Start at: 2017-10-11 06:55:30

End at: 2017-10-11 06:56:00

# Below is generated by plot.py at 2017-10-11 08:45:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.56 Mbit/s

95th percentile per-packet one-way delay: 71.193 ms

Loss rate: 0.00%

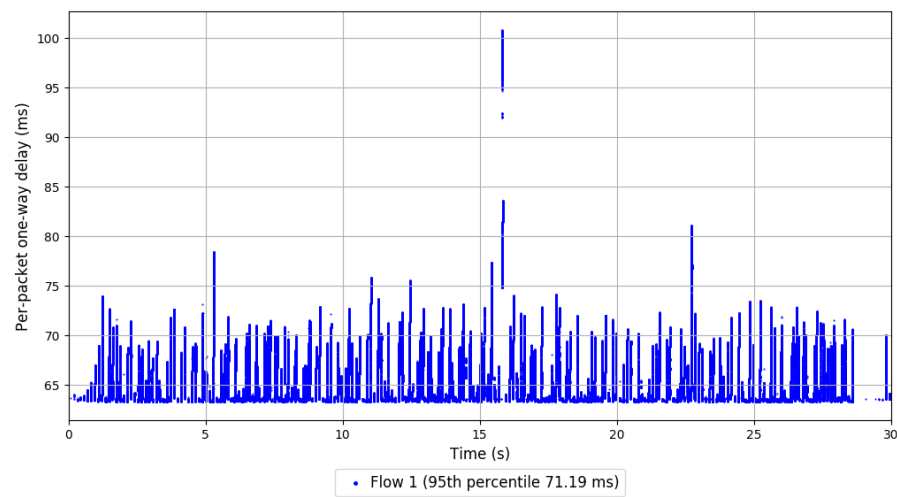
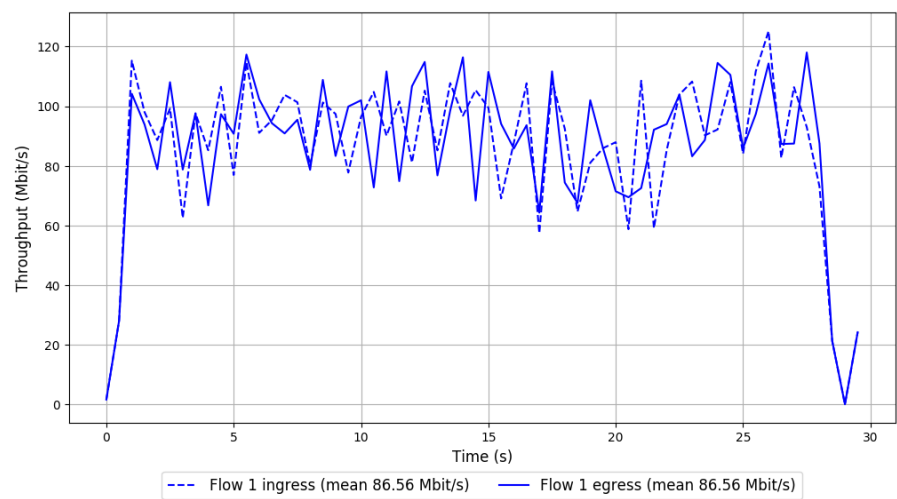
-- Flow 1:

Average throughput: 86.56 Mbit/s

95th percentile per-packet one-way delay: 71.193 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-10-11 07:06:18

End at: 2017-10-11 07:06:48

# Below is generated by plot.py at 2017-10-11 08:45:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.25 Mbit/s

95th percentile per-packet one-way delay: 71.677 ms

Loss rate: 0.00%

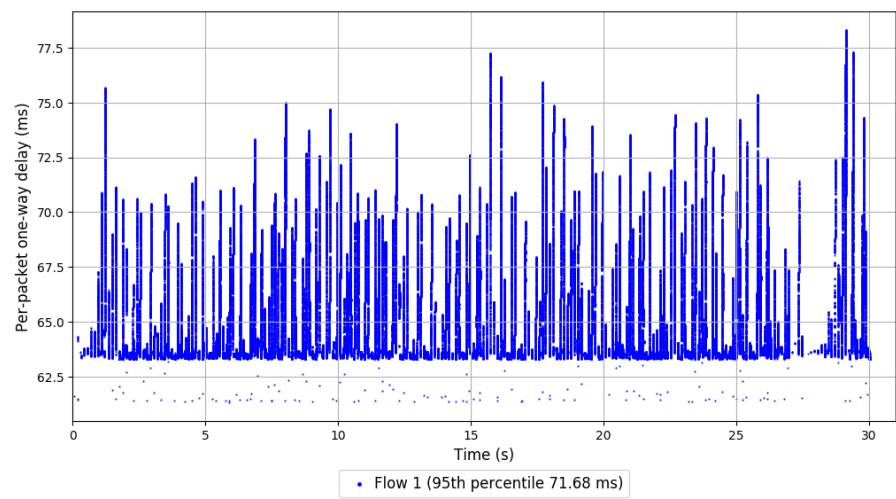
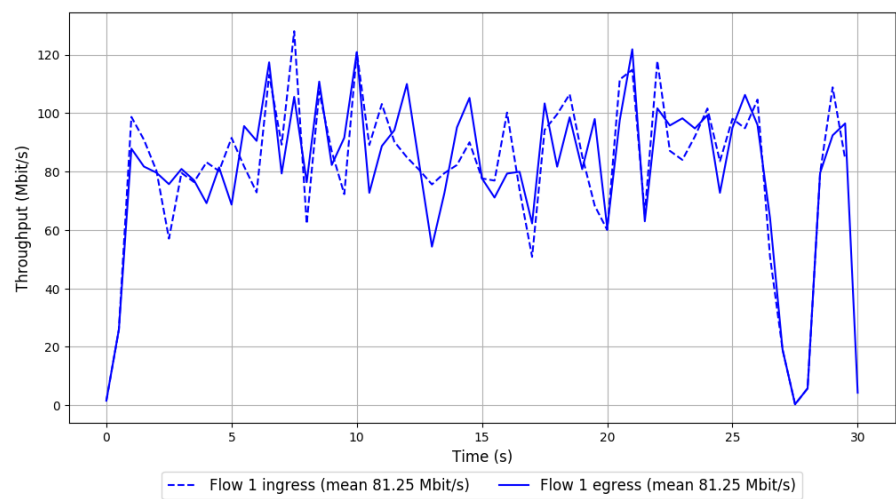
-- Flow 1:

Average throughput: 81.25 Mbit/s

95th percentile per-packet one-way delay: 71.677 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-10-11 07:17:13

End at: 2017-10-11 07:17:43

# Below is generated by plot.py at 2017-10-11 08:45:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.28 Mbit/s

95th percentile per-packet one-way delay: 70.520 ms

Loss rate: 0.00%

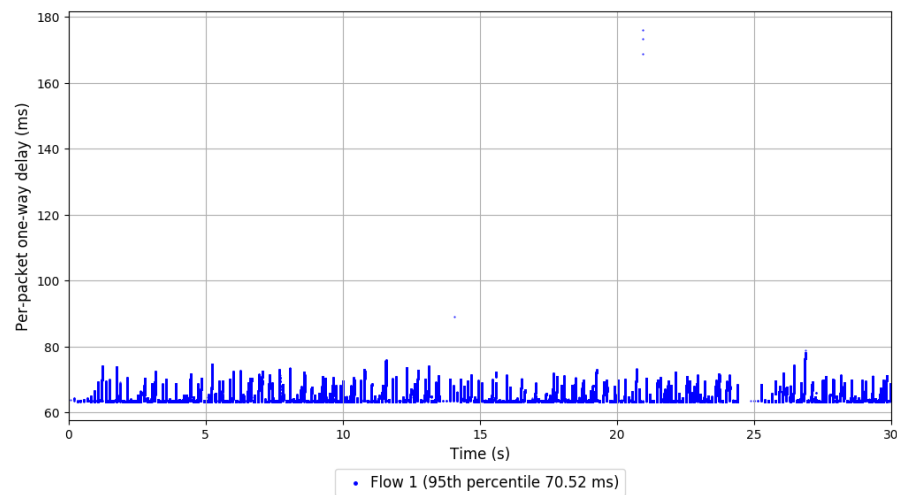
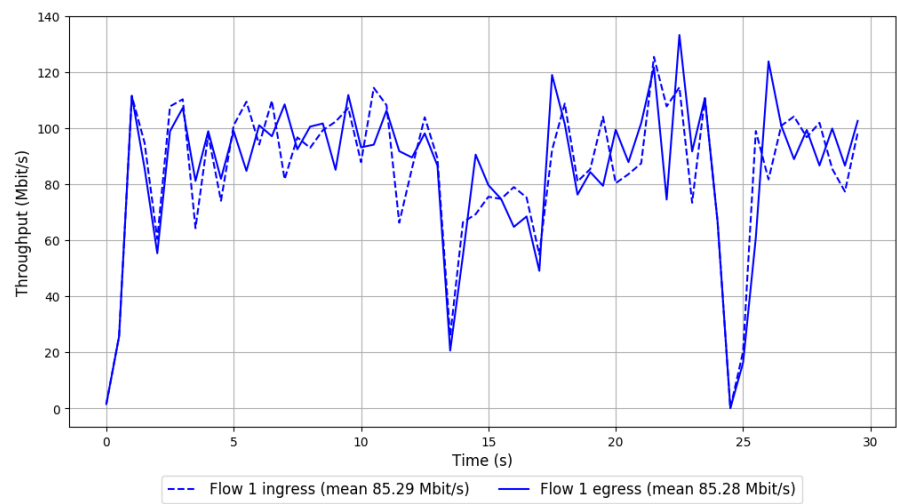
-- Flow 1:

Average throughput: 85.28 Mbit/s

95th percentile per-packet one-way delay: 70.520 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-10-11 07:27:50

End at: 2017-10-11 07:28:20

# Below is generated by plot.py at 2017-10-11 08:45:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 71.500 ms

Loss rate: 0.00%

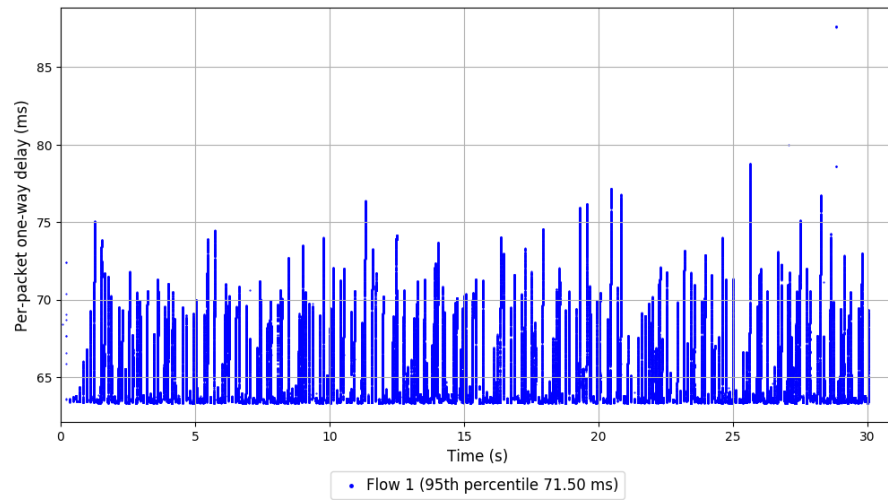
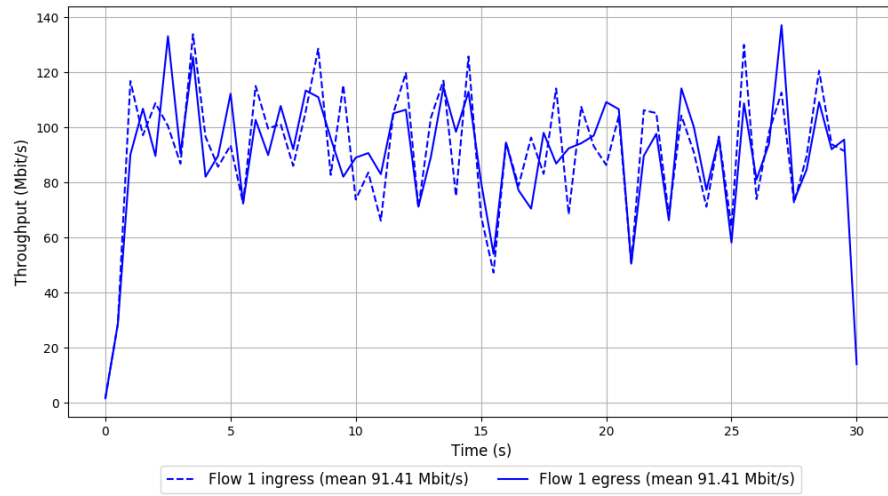
-- Flow 1:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 71.500 ms

Loss rate: 0.00%

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



Run 9: Statistics of TCP BBR

Start at: 2017-10-11 07:38:41

End at: 2017-10-11 07:39:11

# Below is generated by plot.py at 2017-10-11 08:46:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.61 Mbit/s

95th percentile per-packet one-way delay: 72.669 ms

Loss rate: 0.03%

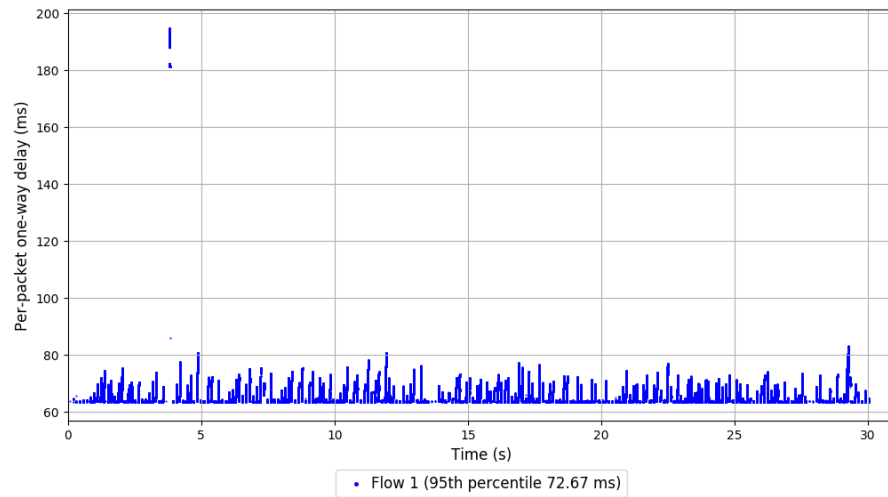
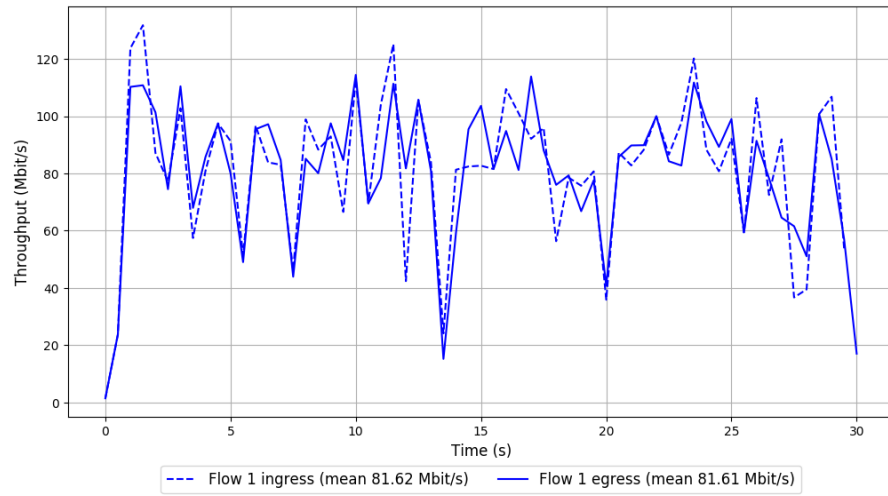
-- Flow 1:

Average throughput: 81.61 Mbit/s

95th percentile per-packet one-way delay: 72.669 ms

Loss rate: 0.03%

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



Run 10: Statistics of TCP BBR

Start at: 2017-10-11 07:49:17

End at: 2017-10-11 07:49:47

# Below is generated by plot.py at 2017-10-11 08:46:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.03 Mbit/s

95th percentile per-packet one-way delay: 70.983 ms

Loss rate: 0.00%

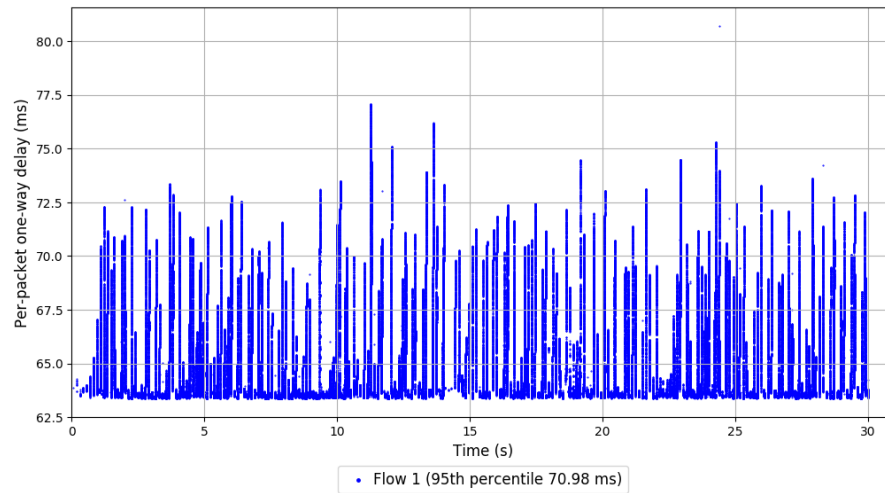
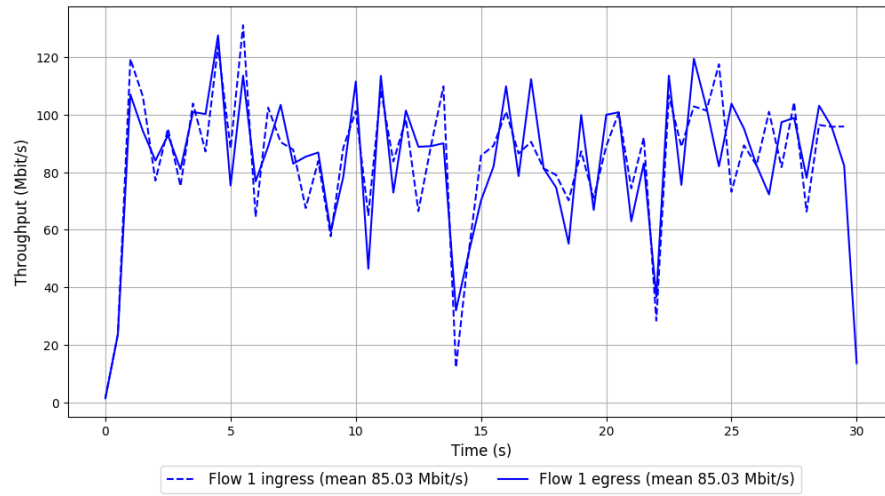
-- Flow 1:

Average throughput: 85.03 Mbit/s

95th percentile per-packet one-way delay: 70.983 ms

Loss rate: 0.00%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-10-11 06:14:07

End at: 2017-10-11 06:14:37

# Below is generated by plot.py at 2017-10-11 08:46:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 103.31 Mbit/s

95th percentile per-packet one-way delay: 66.345 ms

Loss rate: 0.00%

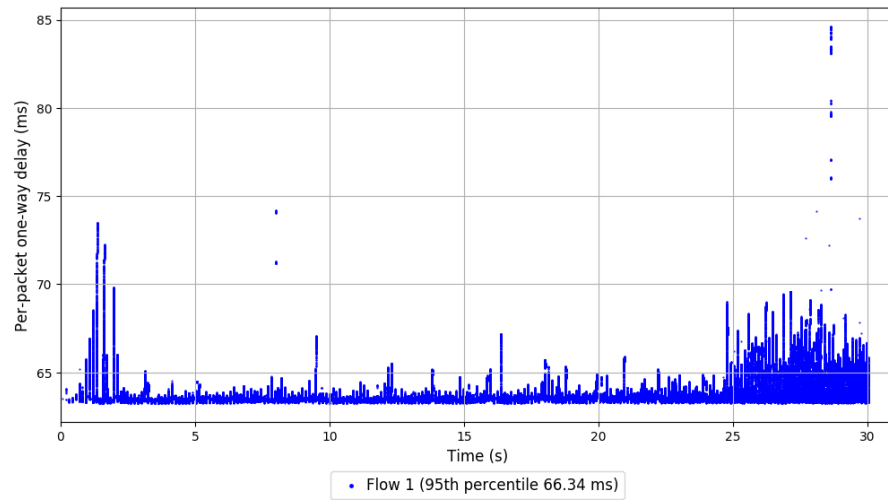
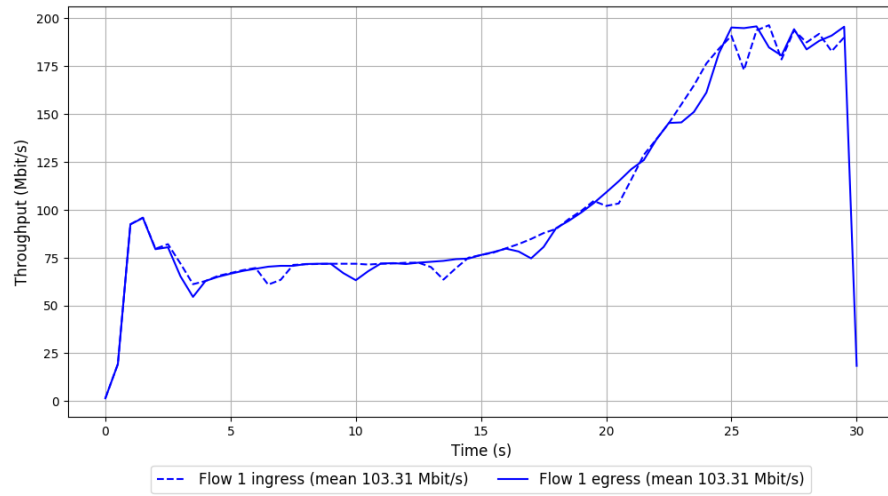
-- Flow 1:

Average throughput: 103.31 Mbit/s

95th percentile per-packet one-way delay: 66.345 ms

Loss rate: 0.00%

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



Run 2: Statistics of TCP Cubic

Start at: 2017-10-11 06:25:00

End at: 2017-10-11 06:25:30

# Below is generated by plot.py at 2017-10-11 08:47:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 132.89 Mbit/s

95th percentile per-packet one-way delay: 69.615 ms

Loss rate: 0.00%

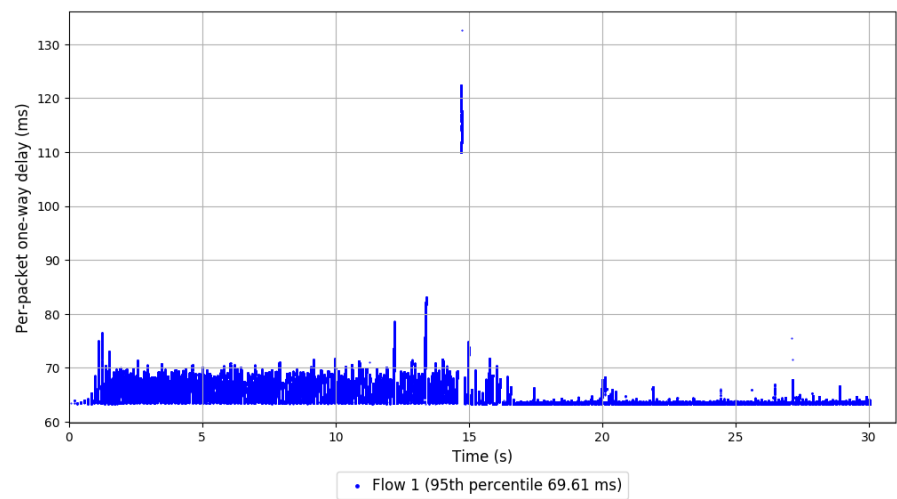
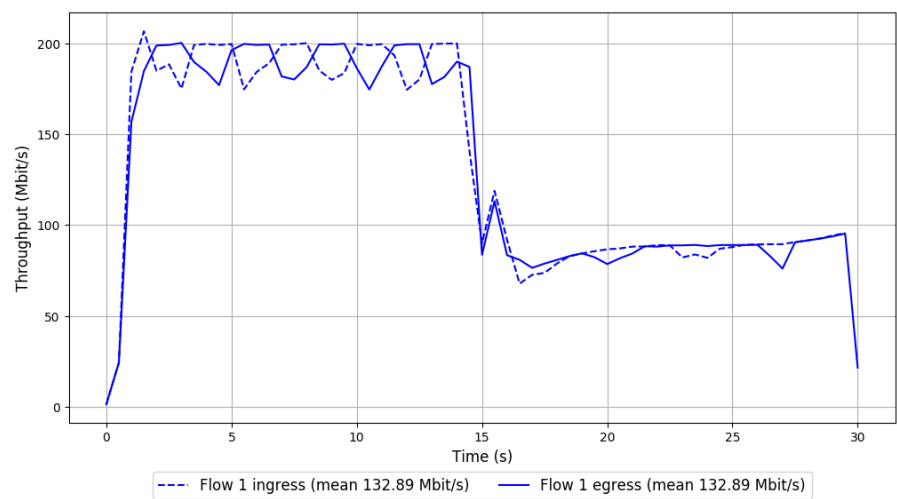
-- Flow 1:

Average throughput: 132.89 Mbit/s

95th percentile per-packet one-way delay: 69.615 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-10-11 06:35:49

End at: 2017-10-11 06:36:19

# Below is generated by plot.py at 2017-10-11 08:47:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 163.03 Mbit/s

95th percentile per-packet one-way delay: 69.985 ms

Loss rate: 0.00%

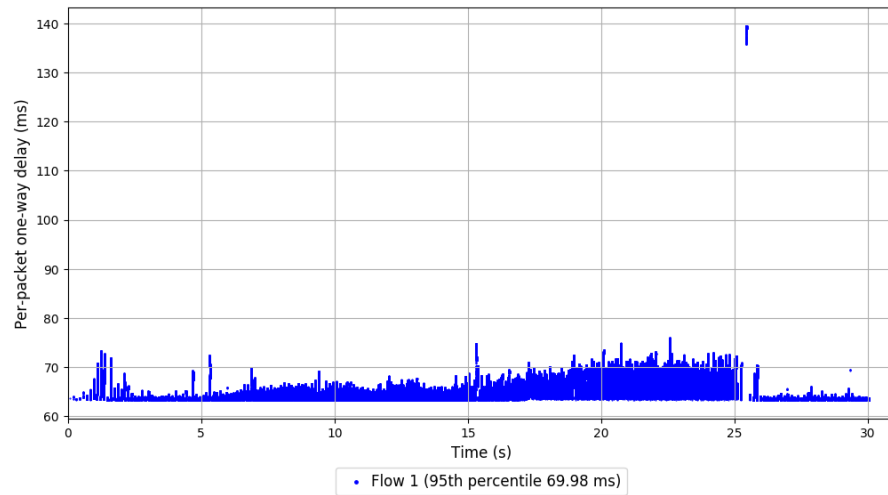
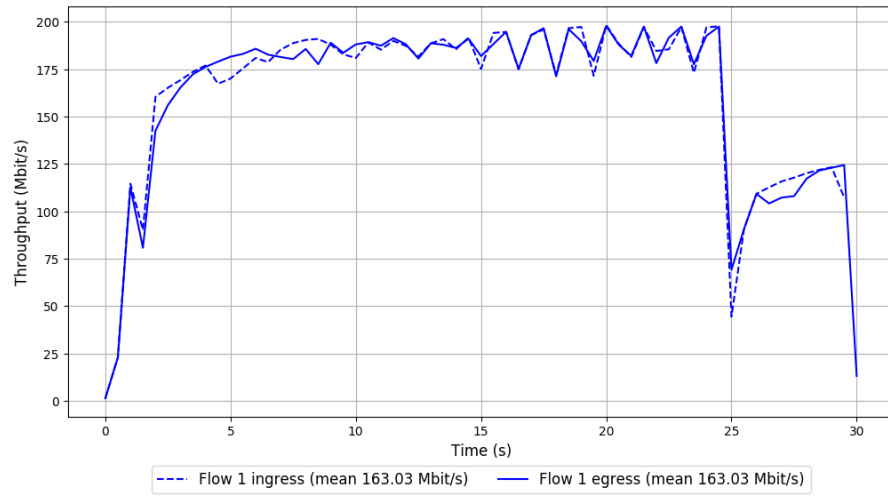
-- Flow 1:

Average throughput: 163.03 Mbit/s

95th percentile per-packet one-way delay: 69.985 ms

Loss rate: 0.00%

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



Run 4: Statistics of TCP Cubic

Start at: 2017-10-11 06:46:37

End at: 2017-10-11 06:47:07

# Below is generated by plot.py at 2017-10-11 08:47:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.85 Mbit/s

95th percentile per-packet one-way delay: 65.888 ms

Loss rate: 0.00%

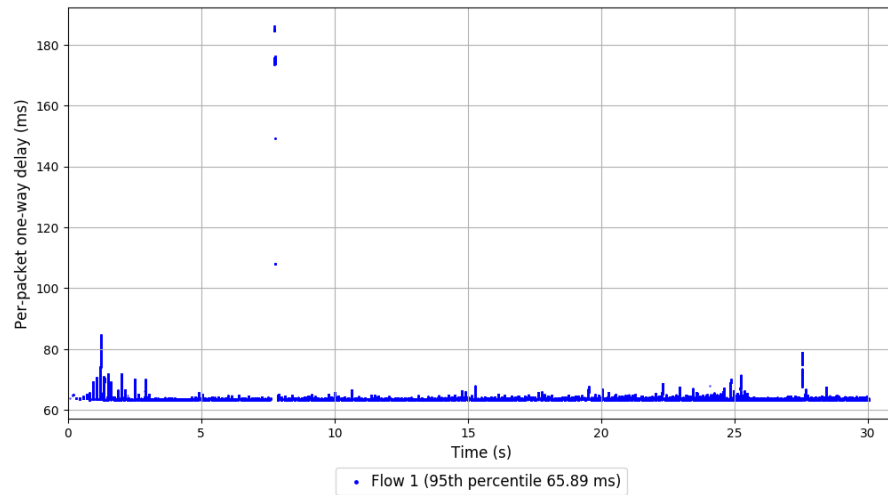
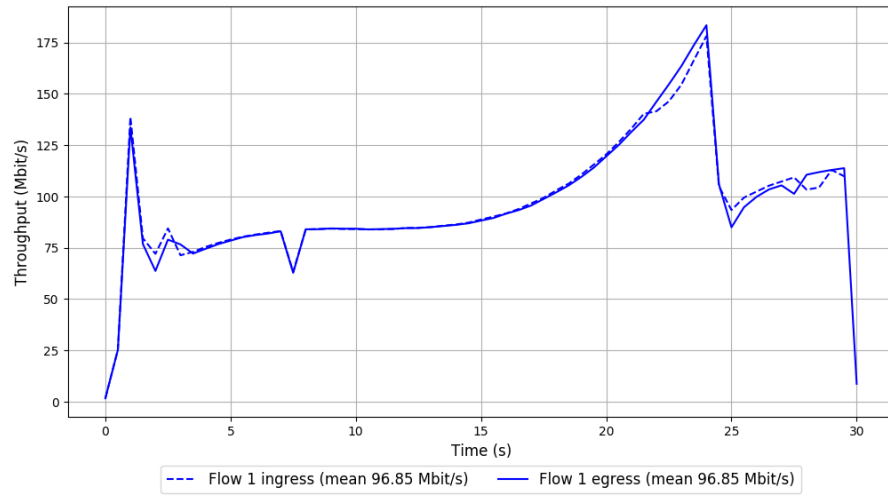
-- Flow 1:

Average throughput: 96.85 Mbit/s

95th percentile per-packet one-way delay: 65.888 ms

Loss rate: 0.00%

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



Run 5: Statistics of TCP Cubic

Start at: 2017-10-11 06:57:04

End at: 2017-10-11 06:57:34

# Below is generated by plot.py at 2017-10-11 08:47:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 118.71 Mbit/s

95th percentile per-packet one-way delay: 65.513 ms

Loss rate: 0.00%

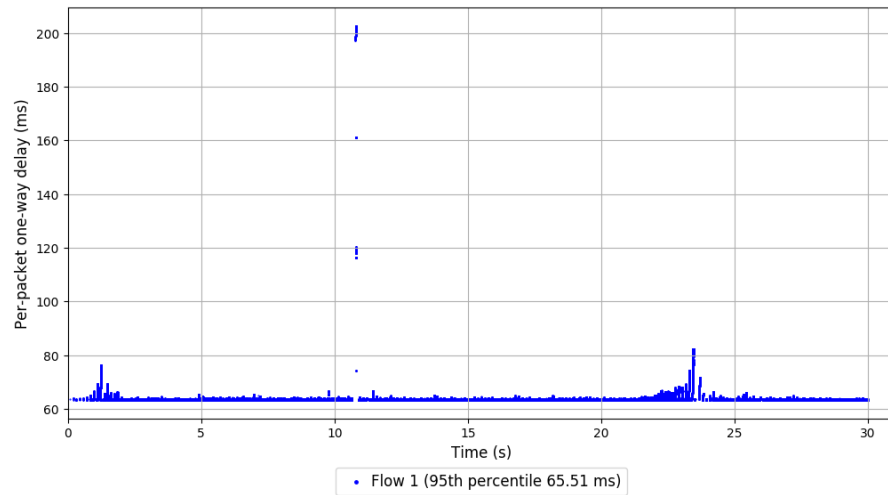
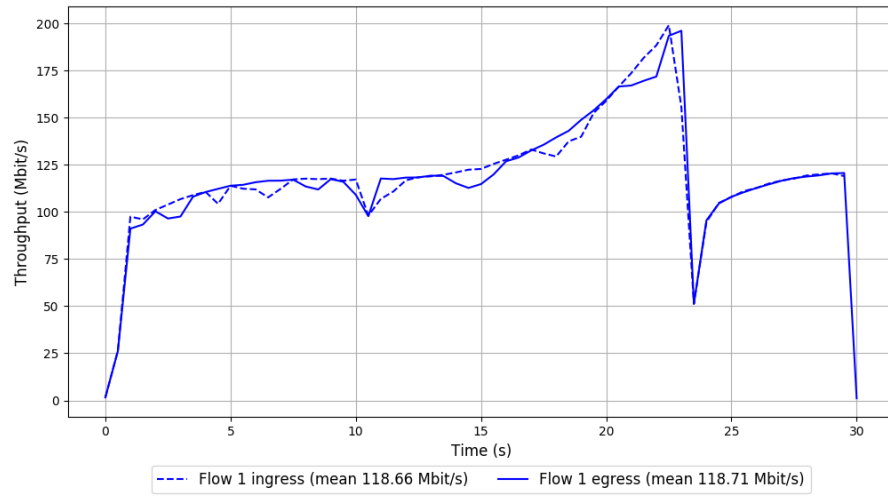
-- Flow 1:

Average throughput: 118.71 Mbit/s

95th percentile per-packet one-way delay: 65.513 ms

Loss rate: 0.00%

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



Run 6: Statistics of TCP Cubic

Start at: 2017-10-11 07:07:51

End at: 2017-10-11 07:08:21

# Below is generated by plot.py at 2017-10-11 08:47:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 115.17 Mbit/s

95th percentile per-packet one-way delay: 64.958 ms

Loss rate: 0.01%

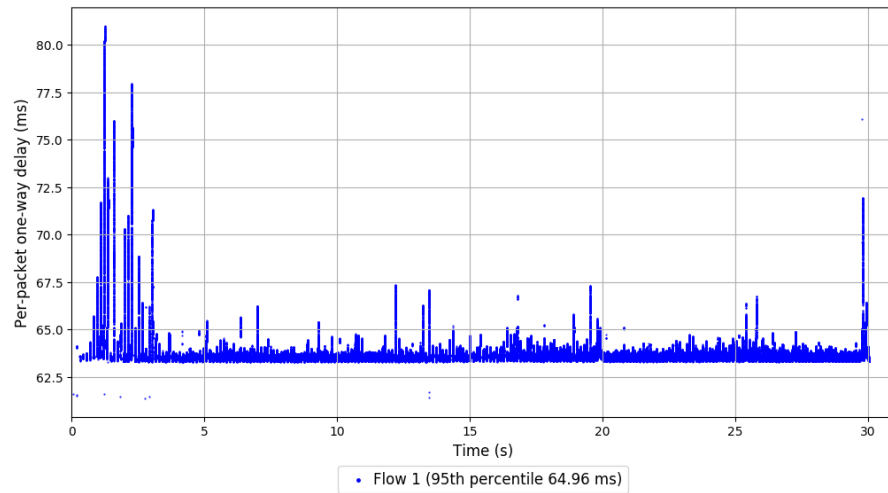
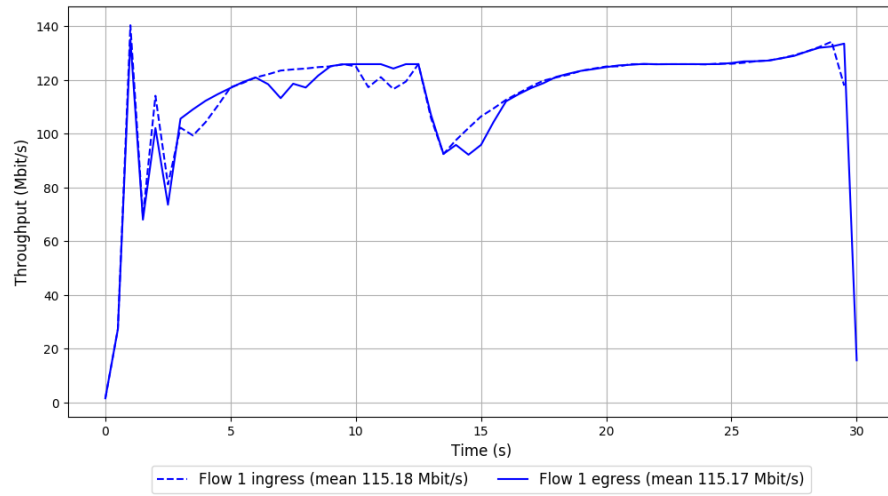
-- Flow 1:

Average throughput: 115.17 Mbit/s

95th percentile per-packet one-way delay: 64.958 ms

Loss rate: 0.01%

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



Run 7: Statistics of TCP Cubic

Start at: 2017-10-11 07:18:47

End at: 2017-10-11 07:19:17

# Below is generated by plot.py at 2017-10-11 08:48:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 111.60 Mbit/s

95th percentile per-packet one-way delay: 67.200 ms

Loss rate: 0.00%

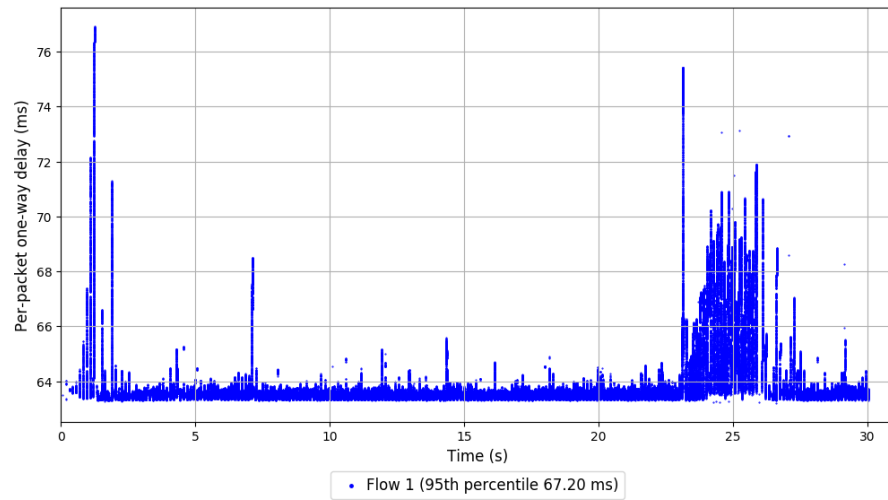
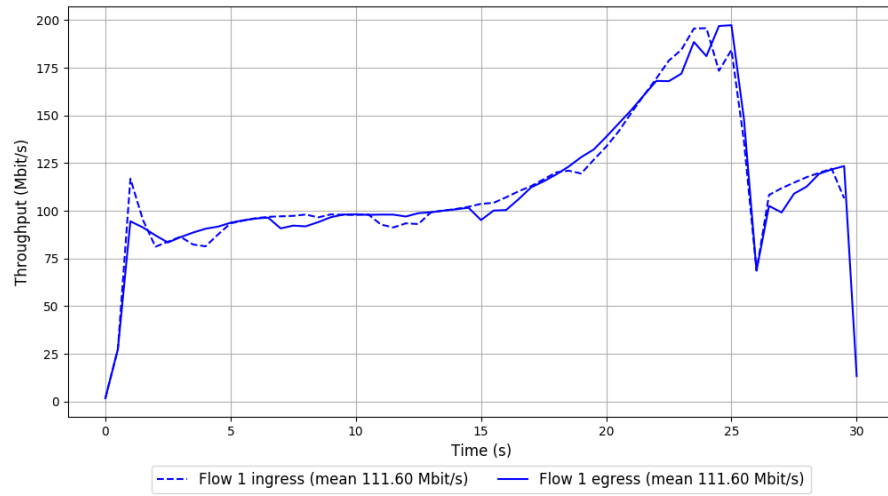
-- Flow 1:

Average throughput: 111.60 Mbit/s

95th percentile per-packet one-way delay: 67.200 ms

Loss rate: 0.00%

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



Run 8: Statistics of TCP Cubic

Start at: 2017-10-11 07:29:24

End at: 2017-10-11 07:29:54

# Below is generated by plot.py at 2017-10-11 08:48:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.52 Mbit/s

95th percentile per-packet one-way delay: 65.271 ms

Loss rate: 0.00%

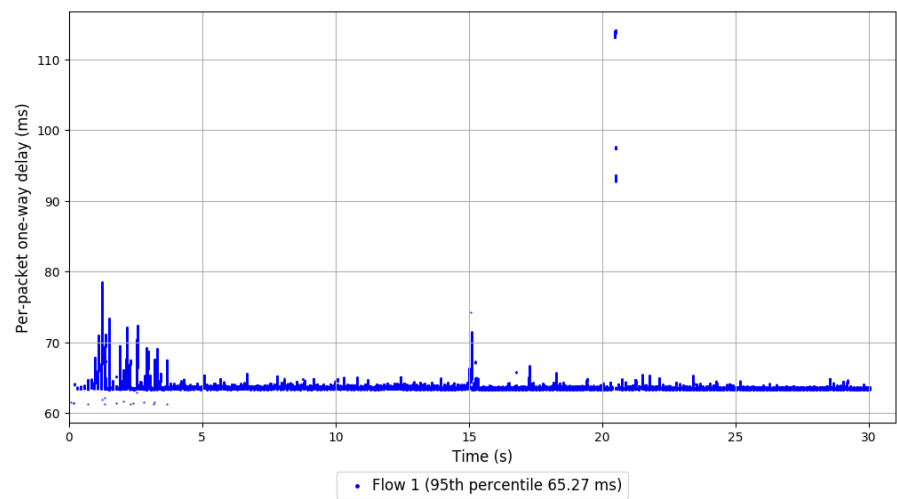
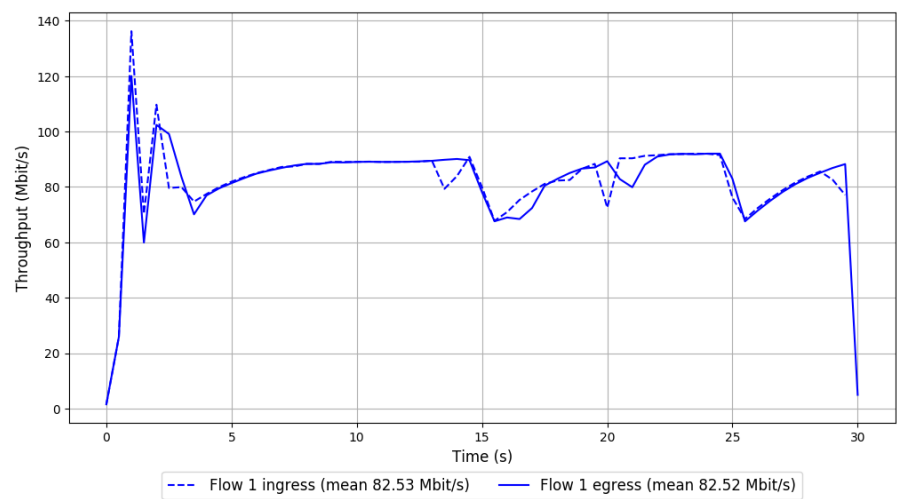
-- Flow 1:

Average throughput: 82.52 Mbit/s

95th percentile per-packet one-way delay: 65.271 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-10-11 07:40:14

End at: 2017-10-11 07:40:45

# Below is generated by plot.py at 2017-10-11 08:48:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 128.19 Mbit/s

95th percentile per-packet one-way delay: 65.246 ms

Loss rate: 0.01%

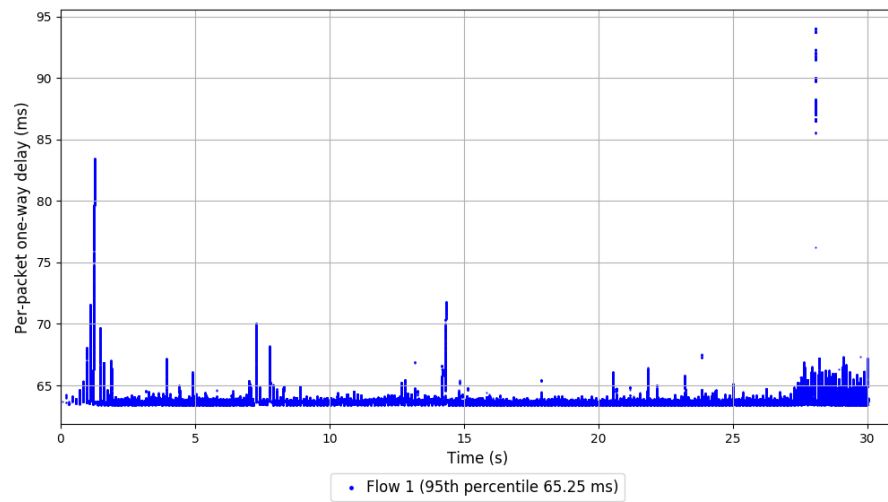
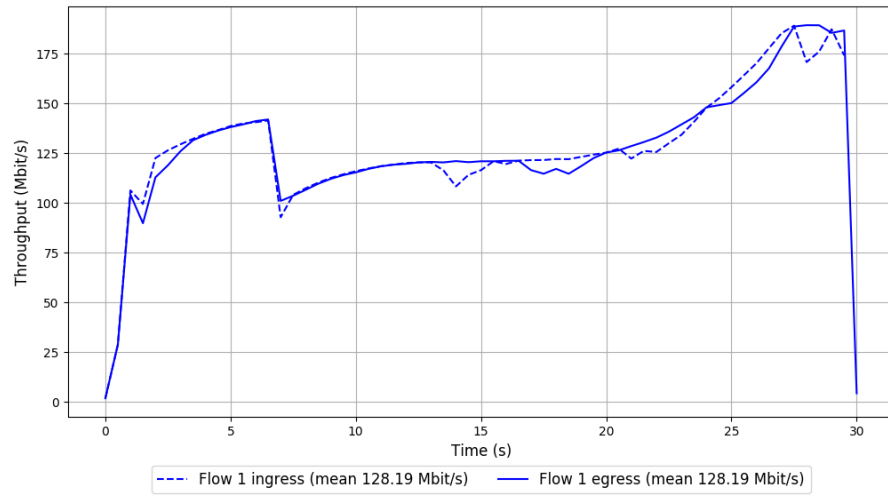
-- Flow 1:

Average throughput: 128.19 Mbit/s

95th percentile per-packet one-way delay: 65.246 ms

Loss rate: 0.01%

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



Run 10: Statistics of TCP Cubic

Start at: 2017-10-11 07:50:50

End at: 2017-10-11 07:51:20

# Below is generated by plot.py at 2017-10-11 08:48:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.13 Mbit/s

95th percentile per-packet one-way delay: 64.846 ms

Loss rate: 0.00%

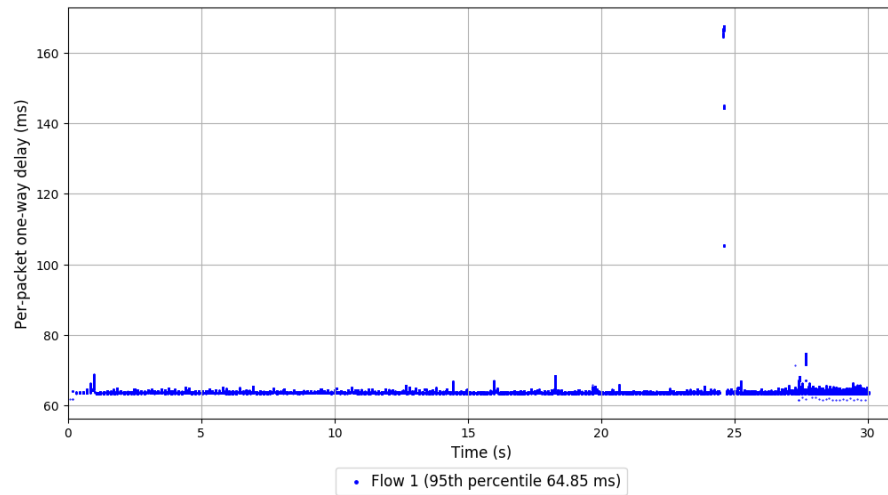
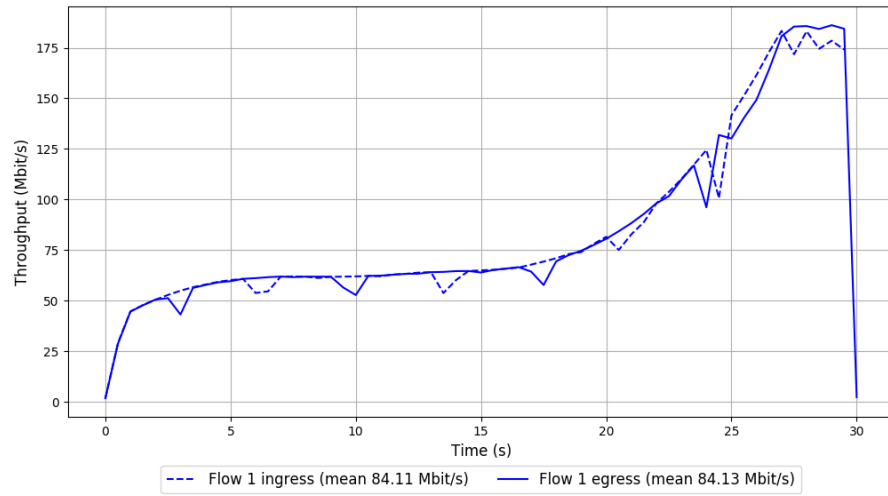
-- Flow 1:

Average throughput: 84.13 Mbit/s

95th percentile per-packet one-way delay: 64.846 ms

Loss rate: 0.00%

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

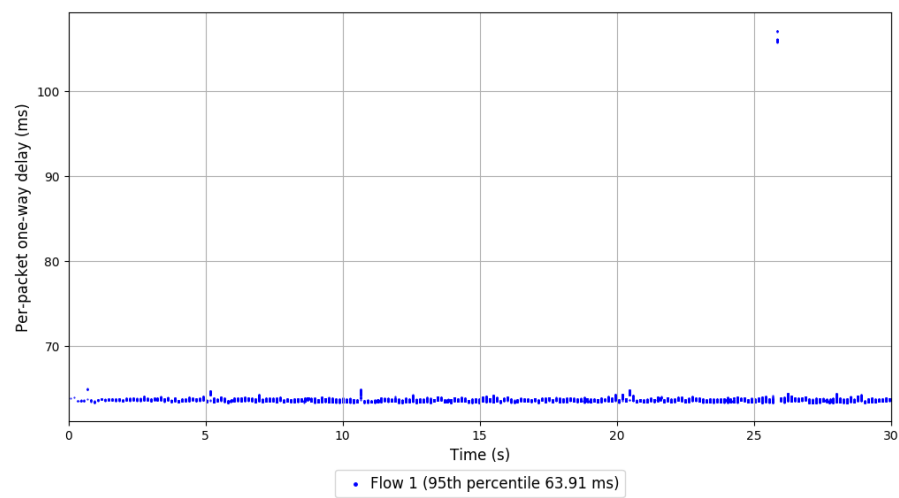
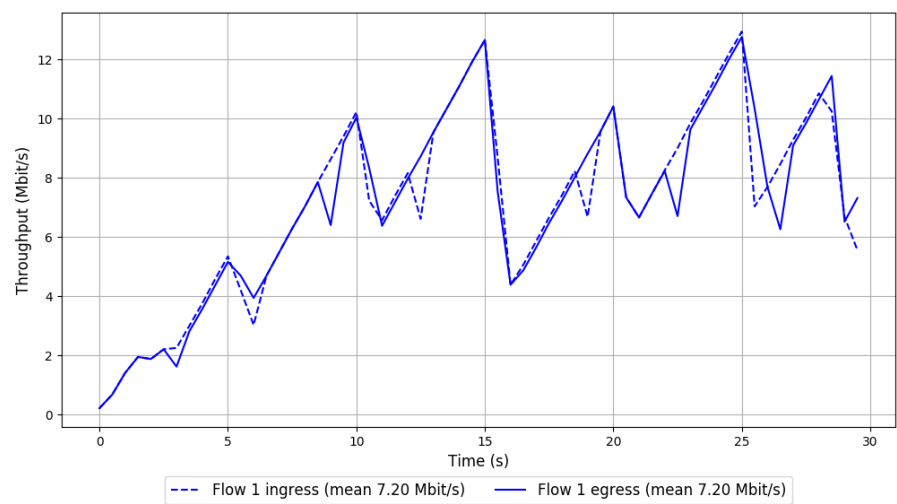


```
Run 1: Statistics of LEDBAT

Start at: 2017-10-11 06:08:19
End at: 2017-10-11 06:08:49

# Below is generated by plot.py at 2017-10-11 08:48:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 63.914 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 63.914 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-10-11 06:19:20

End at: 2017-10-11 06:19:50

# Below is generated by plot.py at 2017-10-11 08:48:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 64.013 ms

Loss rate: 0.08%

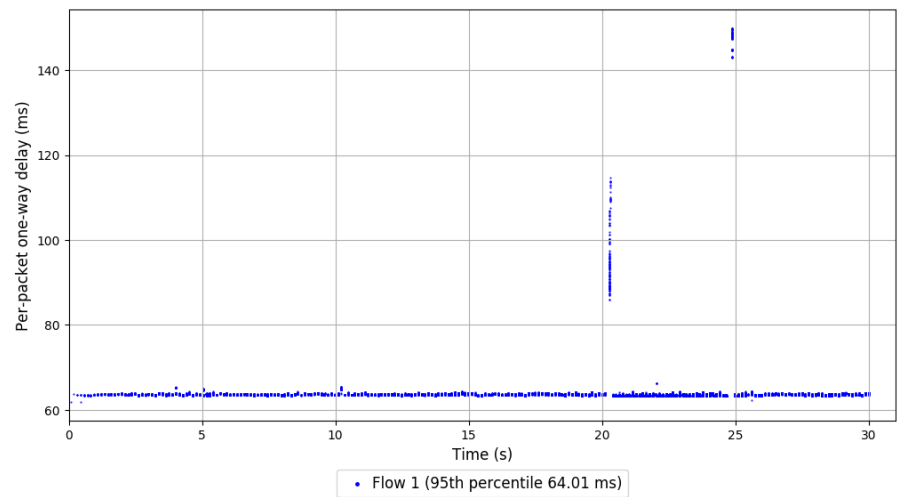
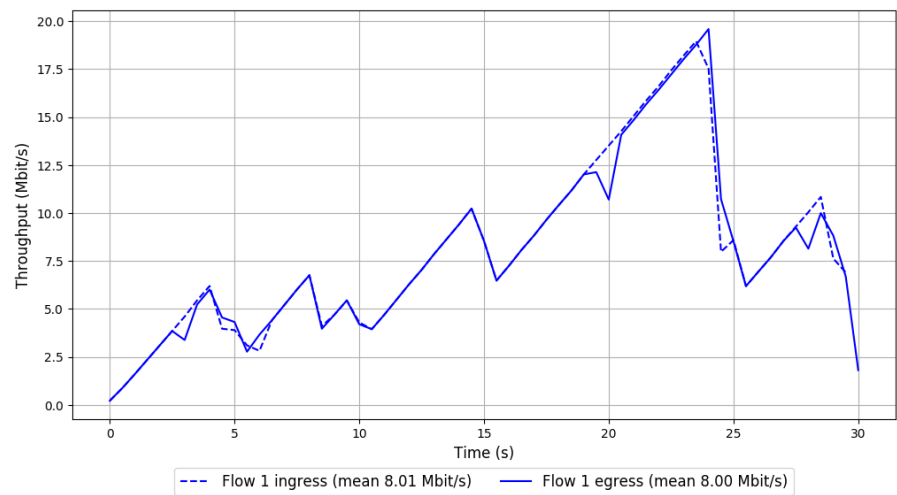
-- Flow 1:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 64.013 ms

Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-10-11 06:30:17

End at: 2017-10-11 06:30:47

# Below is generated by plot.py at 2017-10-11 08:48:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 64.095 ms

Loss rate: 0.01%

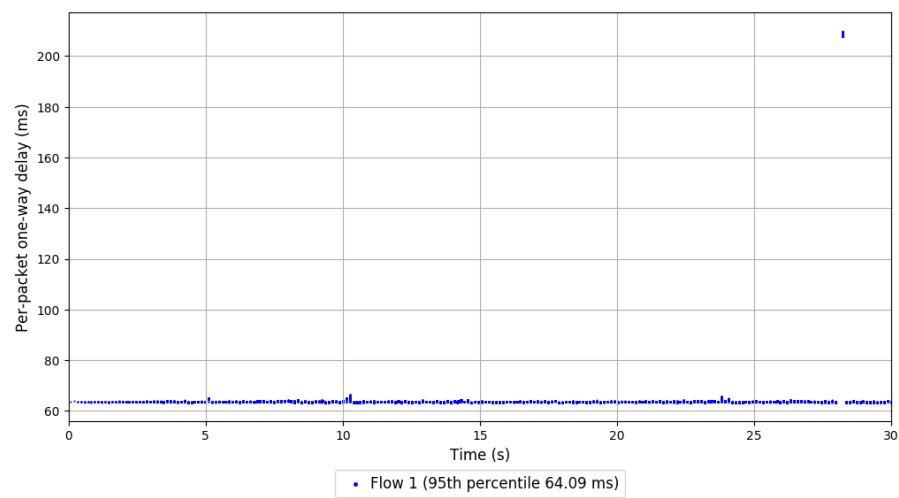
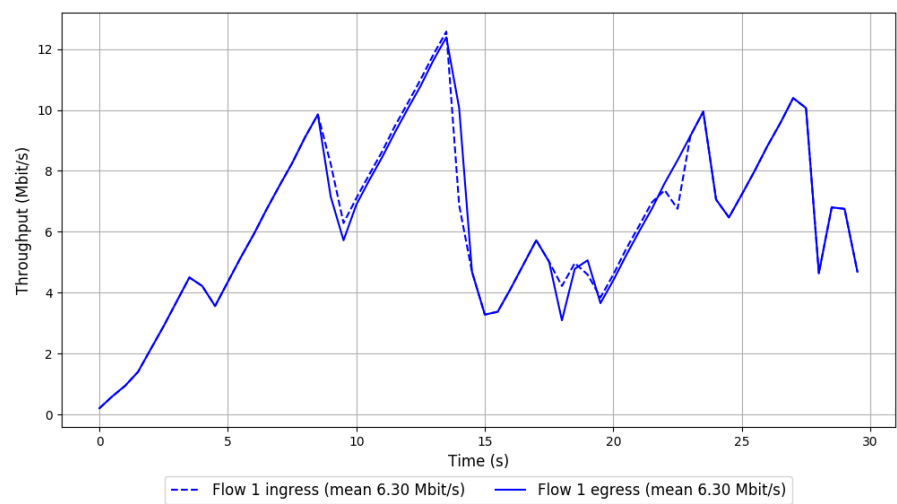
-- Flow 1:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 64.095 ms

Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-10-11 06:41:03

End at: 2017-10-11 06:41:33

# Below is generated by plot.py at 2017-10-11 08:48:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 63.998 ms

Loss rate: 0.05%

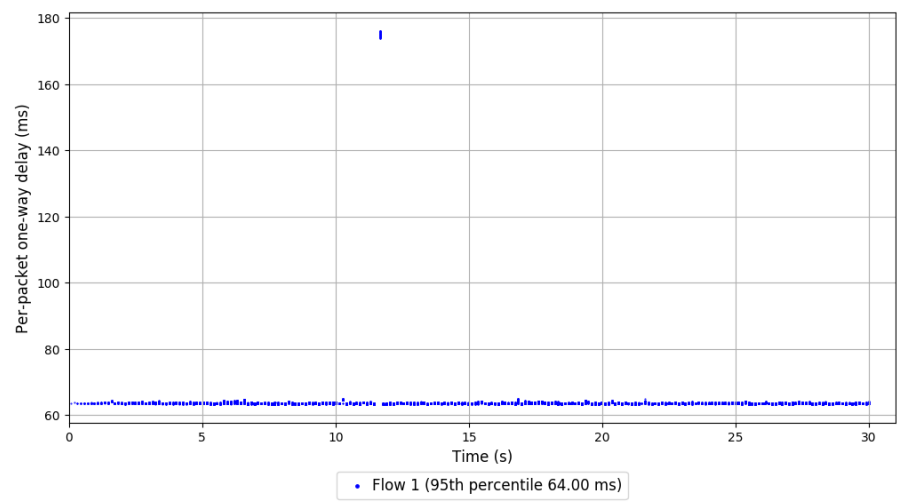
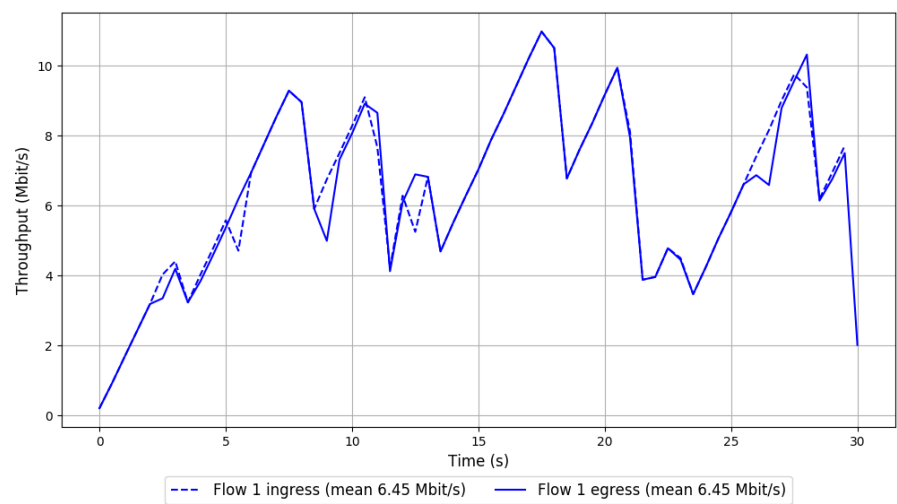
-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 63.998 ms

Loss rate: 0.05%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-10-11 06:51:51

End at: 2017-10-11 06:52:21

# Below is generated by plot.py at 2017-10-11 08:48:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.29 Mbit/s

95th percentile per-packet one-way delay: 63.855 ms

Loss rate: 0.07%

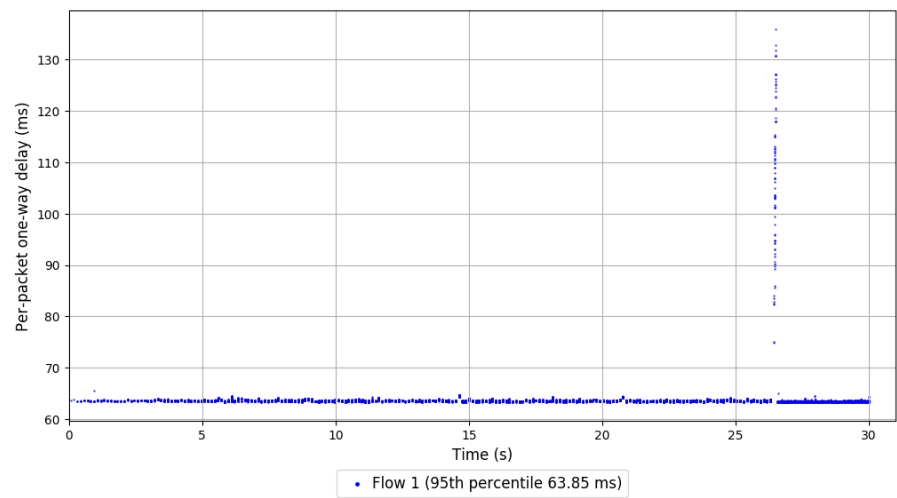
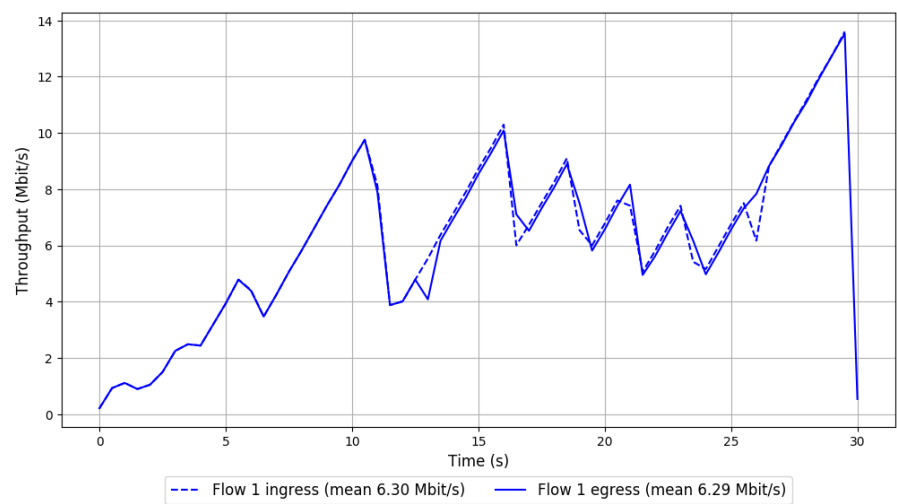
-- Flow 1:

Average throughput: 6.29 Mbit/s

95th percentile per-packet one-way delay: 63.855 ms

Loss rate: 0.07%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-10-11 07:02:14

End at: 2017-10-11 07:02:44

# Below is generated by plot.py at 2017-10-11 08:48:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.22 Mbit/s

95th percentile per-packet one-way delay: 64.078 ms

Loss rate: 0.00%

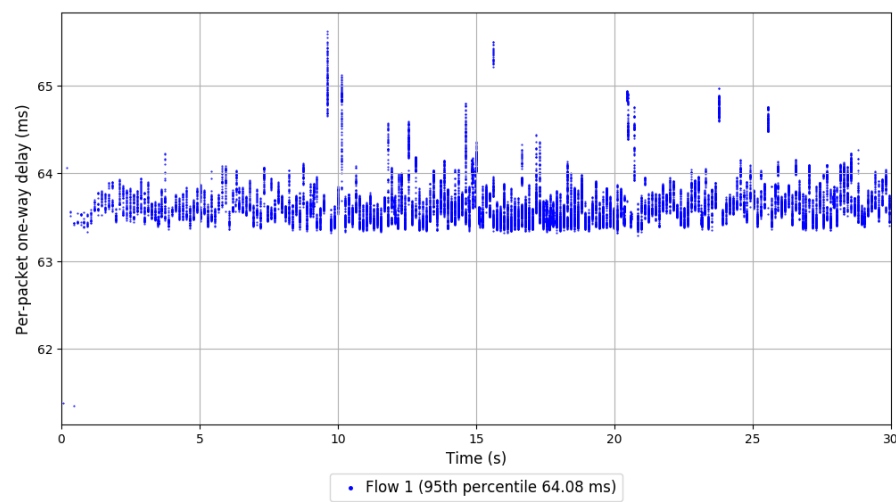
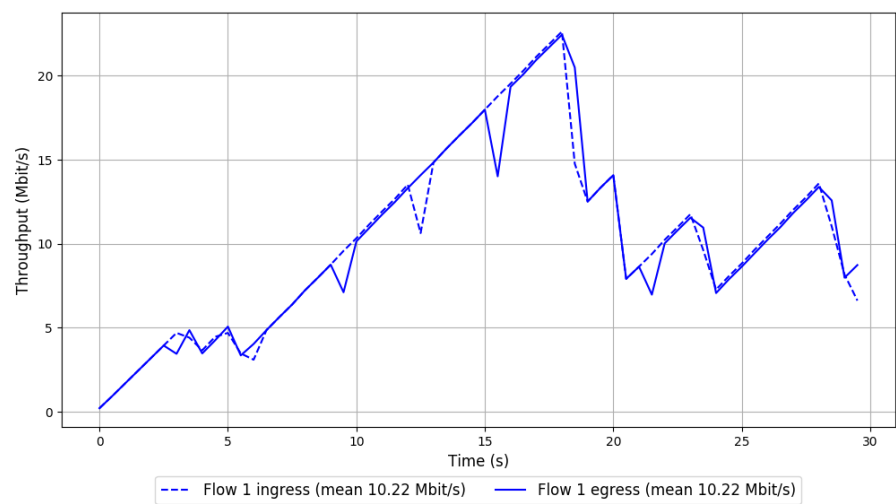
-- Flow 1:

Average throughput: 10.22 Mbit/s

95th percentile per-packet one-way delay: 64.078 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-10-11 07:13:05

End at: 2017-10-11 07:13:35

# Below is generated by plot.py at 2017-10-11 08:48:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.75 Mbit/s

95th percentile per-packet one-way delay: 63.832 ms

Loss rate: 0.02%

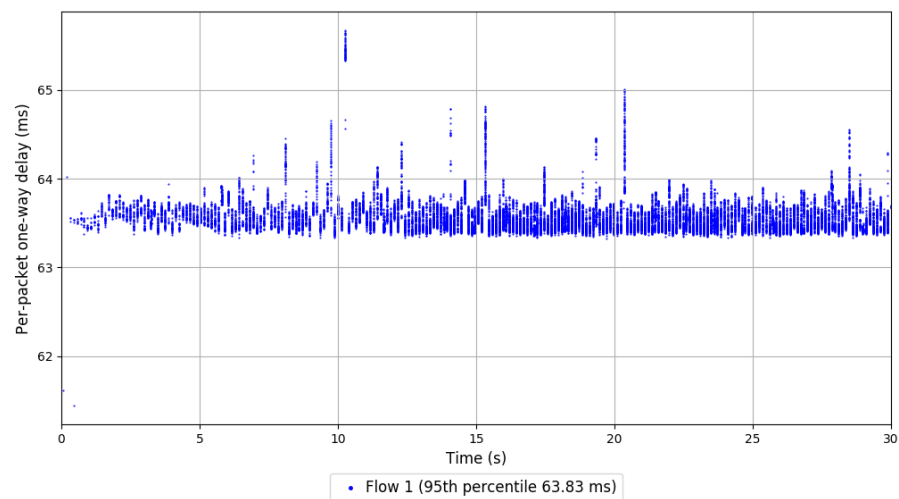
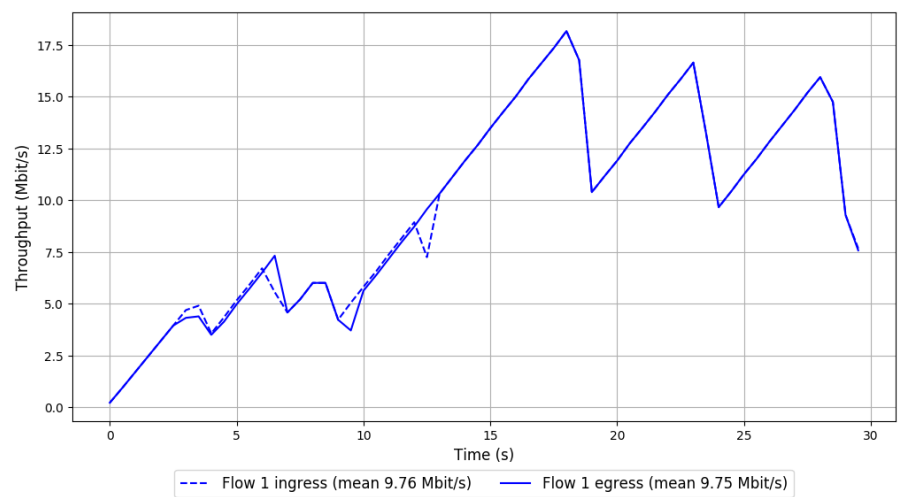
-- Flow 1:

Average throughput: 9.75 Mbit/s

95th percentile per-packet one-way delay: 63.832 ms

Loss rate: 0.02%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-10-11 07:23:48

End at: 2017-10-11 07:24:18

# Below is generated by plot.py at 2017-10-11 08:48:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 64.246 ms

Loss rate: 0.02%

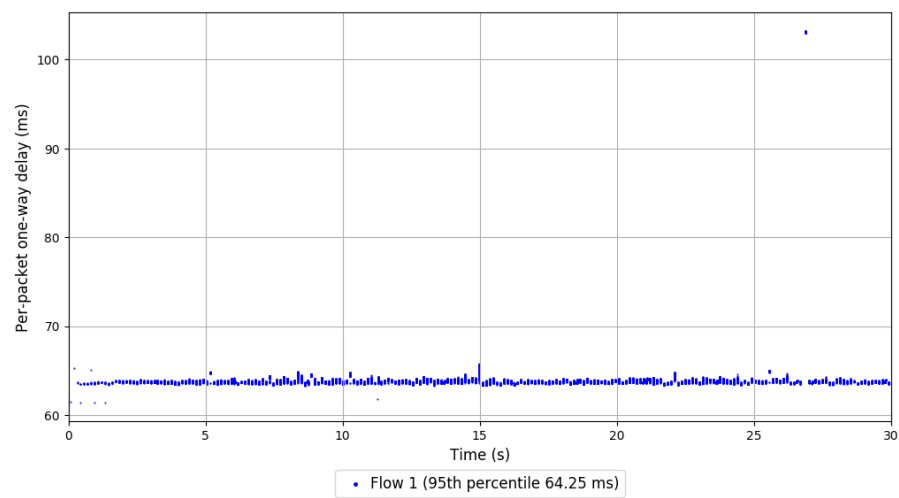
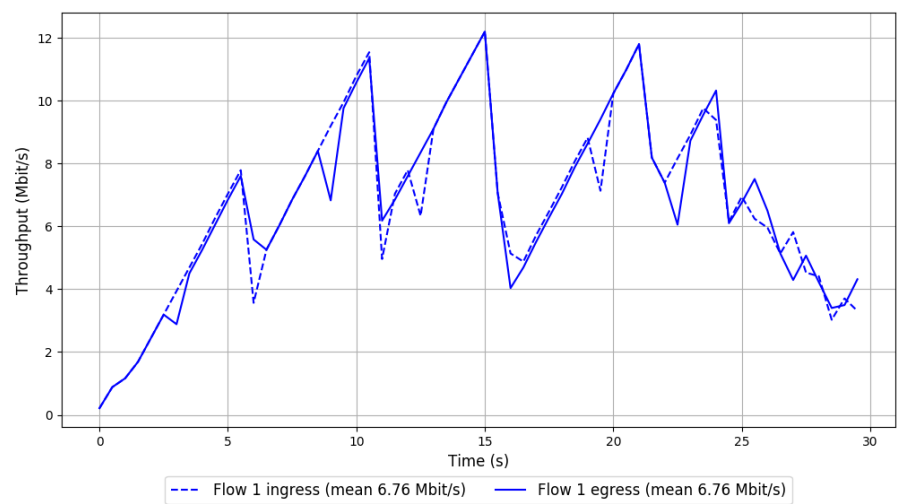
-- Flow 1:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 64.246 ms

Loss rate: 0.02%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-10-11 07:34:34

End at: 2017-10-11 07:35:04

# Below is generated by plot.py at 2017-10-11 08:48:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 64.158 ms

Loss rate: 0.01%

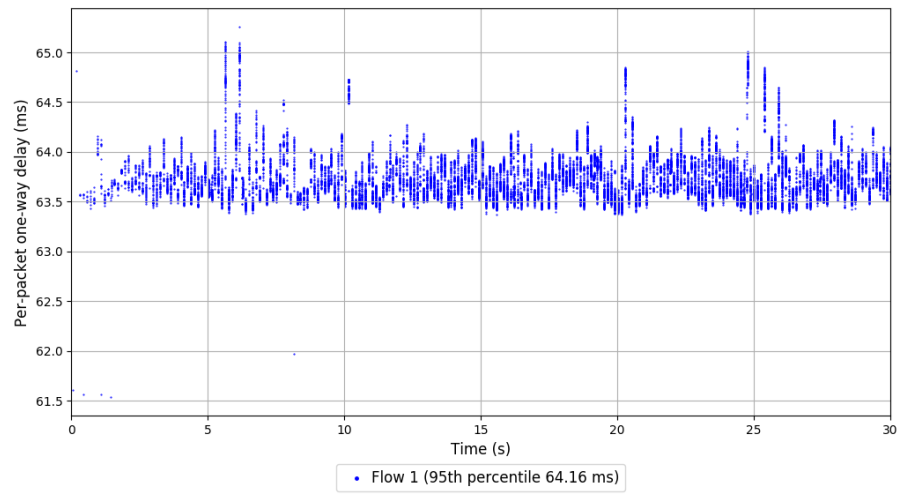
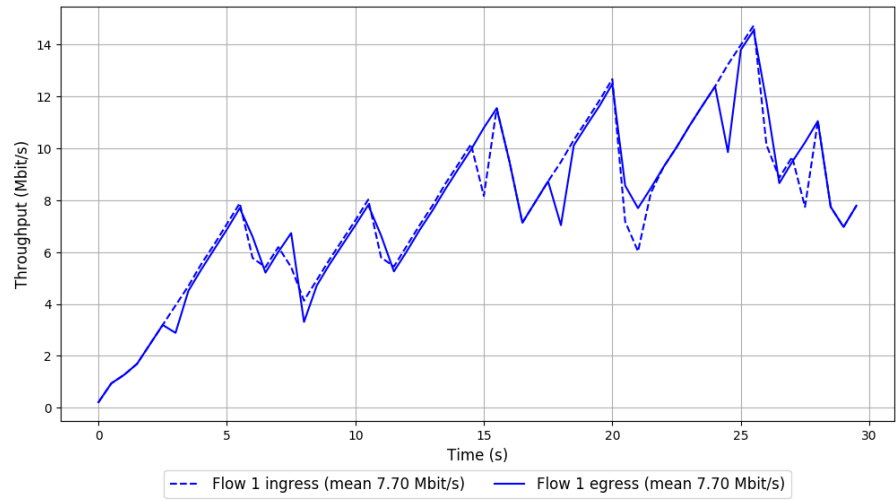
-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 64.158 ms

Loss rate: 0.01%

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



Run 10: Statistics of LEDBAT

Start at: 2017-10-11 07:45:21

End at: 2017-10-11 07:45:51

# Below is generated by plot.py at 2017-10-11 08:48:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 63.969 ms

Loss rate: 0.00%

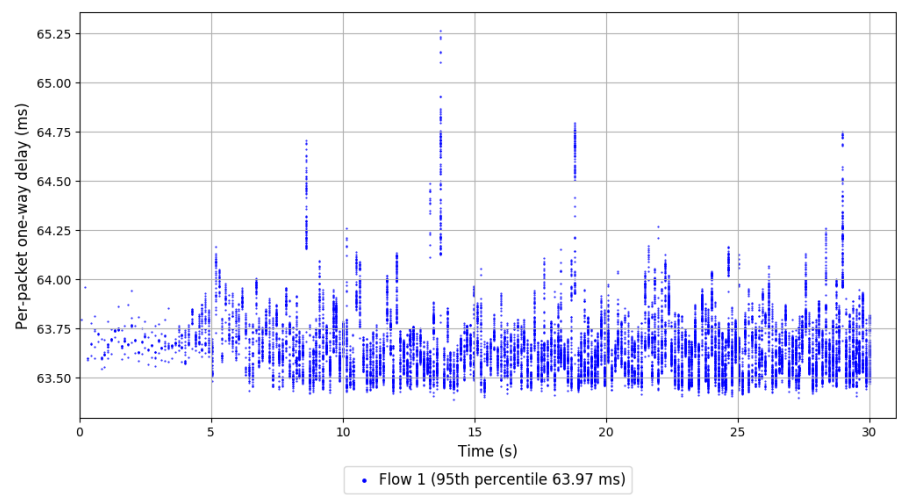
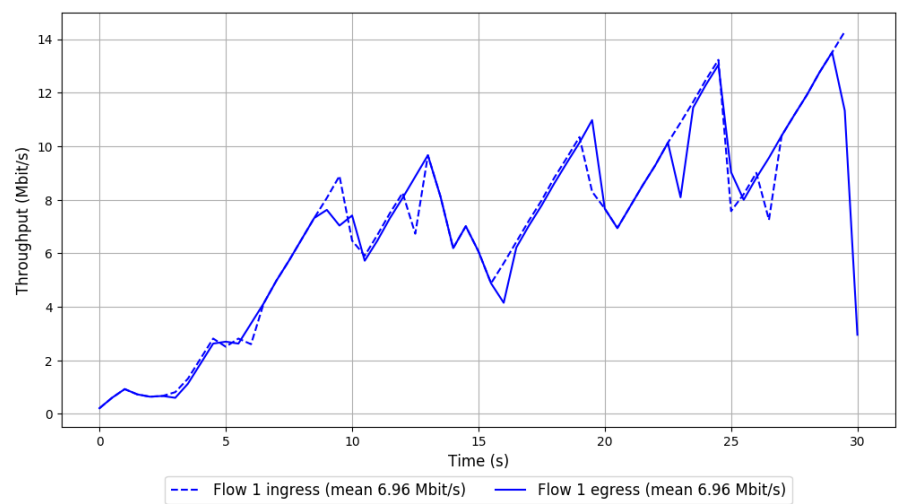
-- Flow 1:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 63.969 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

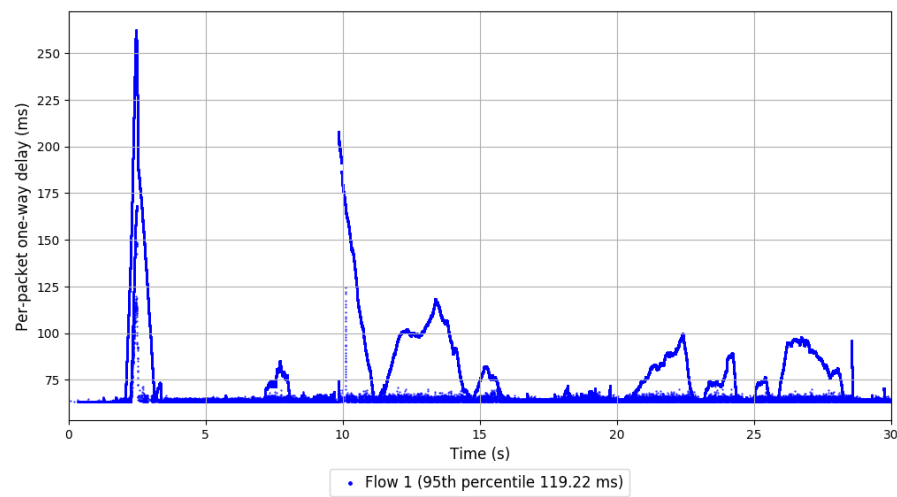
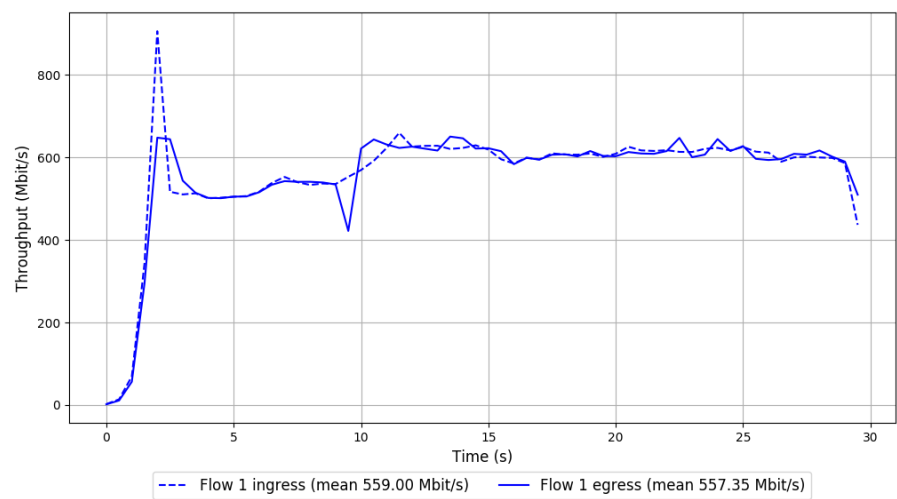


```
Run 1: Statistics of PCC

Start at: 2017-10-11 06:06:05
End at: 2017-10-11 06:06:35

# Below is generated by plot.py at 2017-10-11 08:57:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.35 Mbit/s
95th percentile per-packet one-way delay: 119.216 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 557.35 Mbit/s
95th percentile per-packet one-way delay: 119.216 ms
Loss rate: 0.30%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-10-11 06:17:05

End at: 2017-10-11 06:17:35

# Below is generated by plot.py at 2017-10-11 08:57:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 571.53 Mbit/s

95th percentile per-packet one-way delay: 187.600 ms

Loss rate: 1.42%

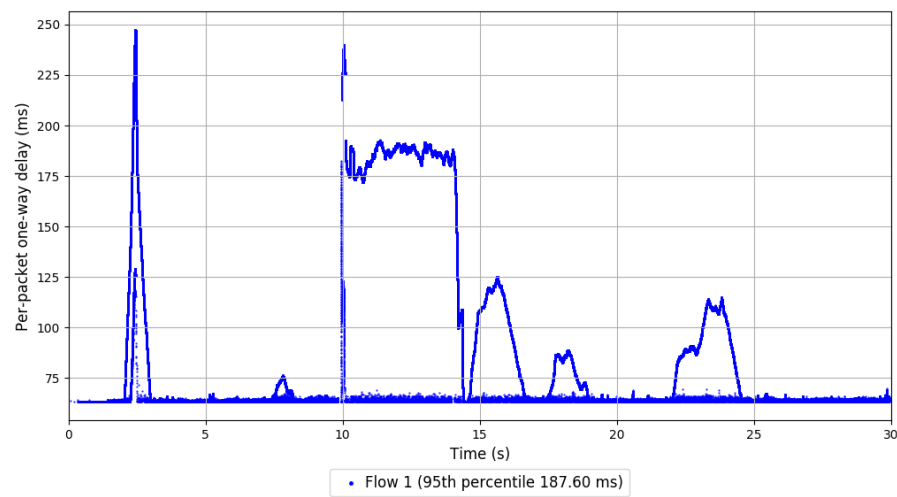
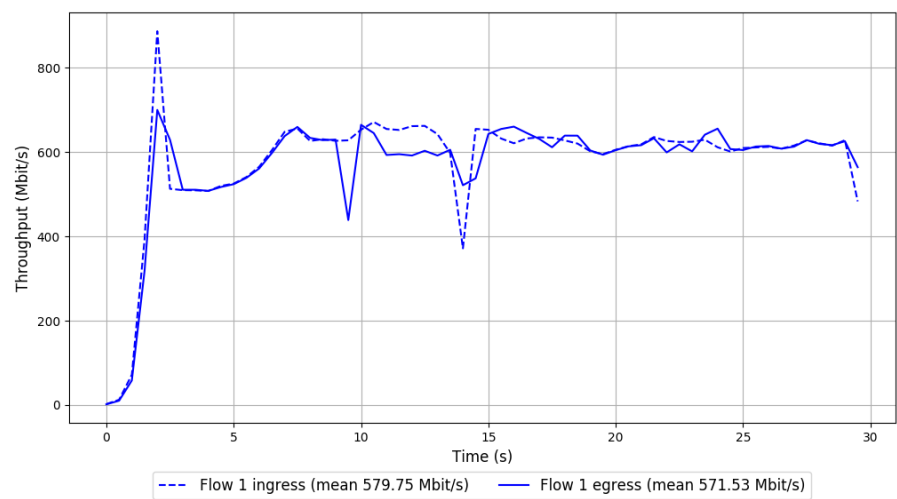
-- Flow 1:

Average throughput: 571.53 Mbit/s

95th percentile per-packet one-way delay: 187.600 ms

Loss rate: 1.42%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-10-11 06:28:02

End at: 2017-10-11 06:28:32

# Below is generated by plot.py at 2017-10-11 08:57:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 555.87 Mbit/s

95th percentile per-packet one-way delay: 134.751 ms

Loss rate: 0.42%

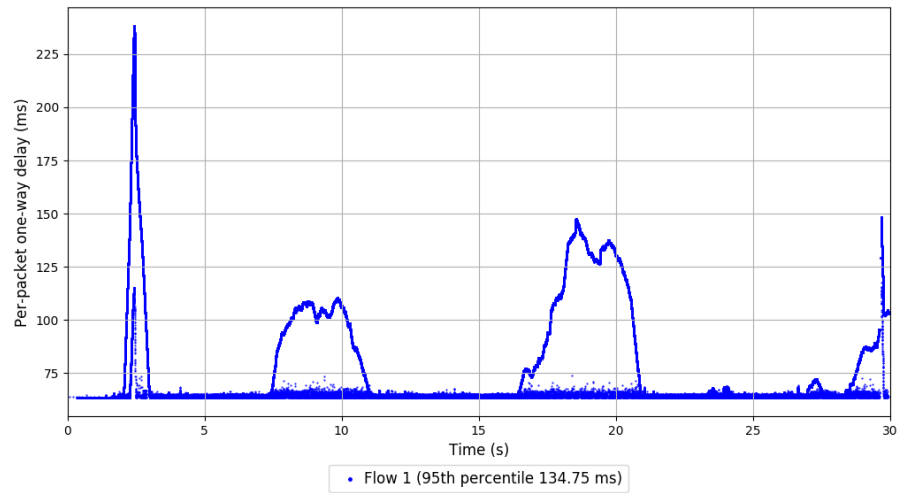
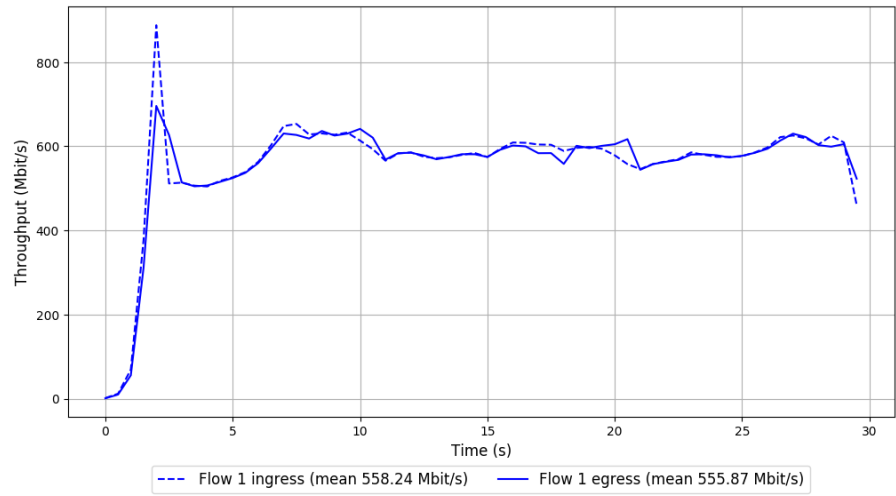
-- Flow 1:

Average throughput: 555.87 Mbit/s

95th percentile per-packet one-way delay: 134.751 ms

Loss rate: 0.42%

### Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-10-11 06:38:49

End at: 2017-10-11 06:39:19

# Below is generated by plot.py at 2017-10-11 08:57:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 557.66 Mbit/s

95th percentile per-packet one-way delay: 181.717 ms

Loss rate: 0.89%

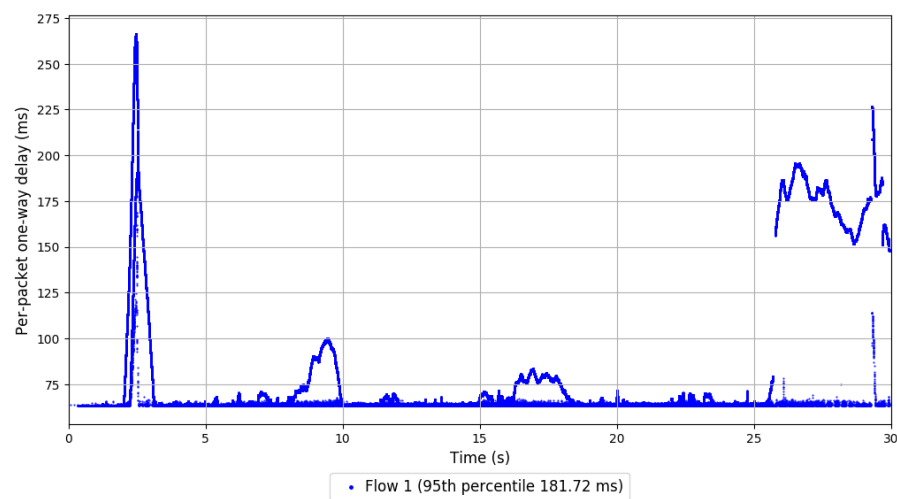
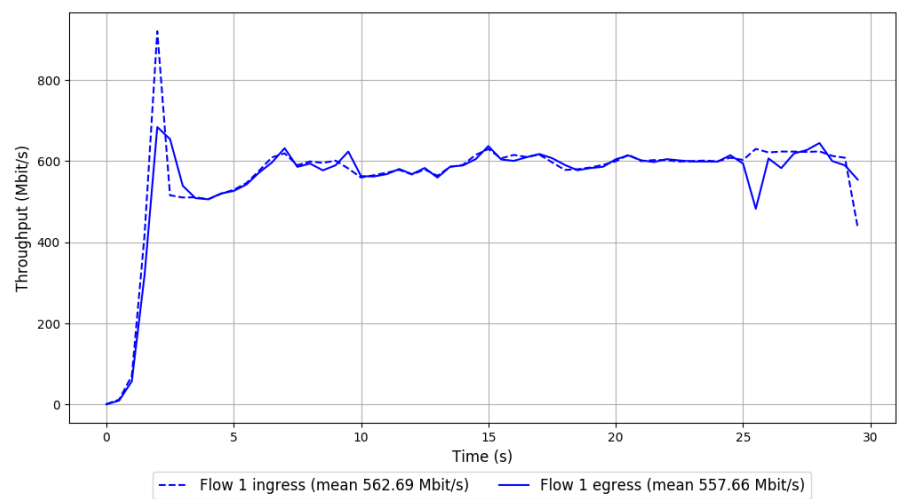
-- Flow 1:

Average throughput: 557.66 Mbit/s

95th percentile per-packet one-way delay: 181.717 ms

Loss rate: 0.89%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-10-11 06:49:37

End at: 2017-10-11 06:50:07

# Below is generated by plot.py at 2017-10-11 08:57:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 556.03 Mbit/s

95th percentile per-packet one-way delay: 191.210 ms

Loss rate: 2.17%

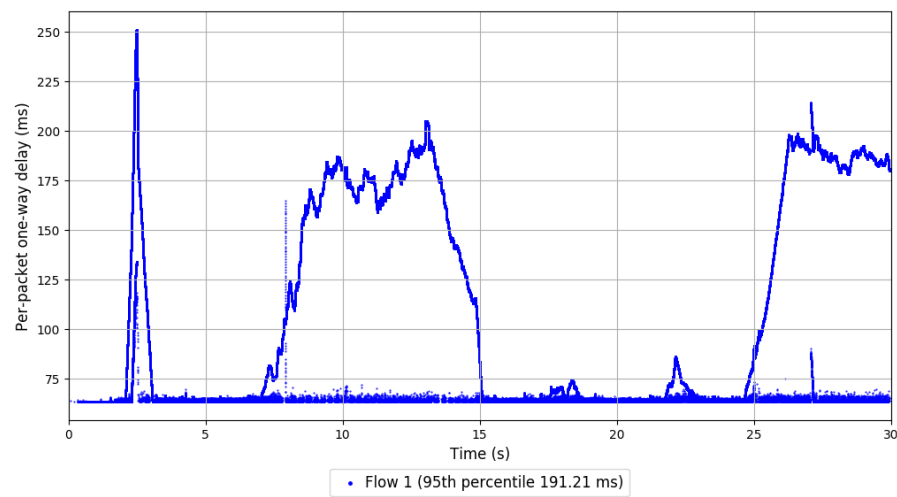
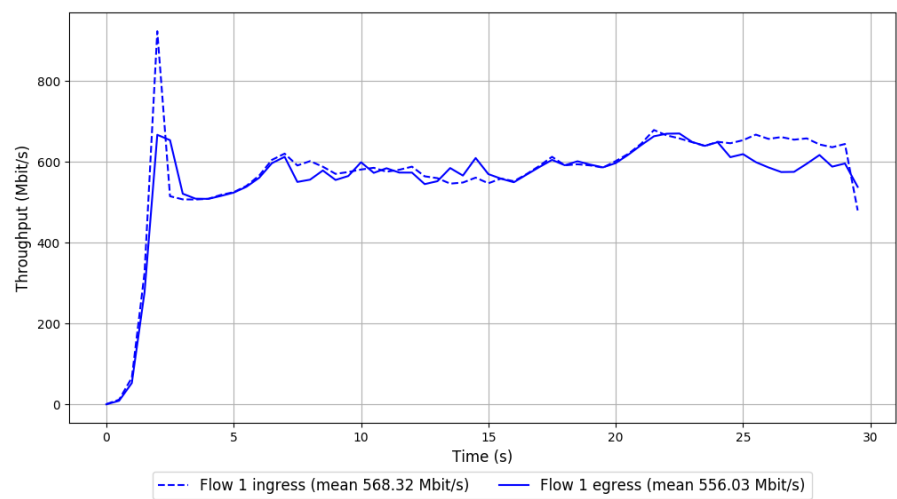
-- Flow 1:

Average throughput: 556.03 Mbit/s

95th percentile per-packet one-way delay: 191.210 ms

Loss rate: 2.17%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

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

End at: 2017-10-11 07:00:30

# Below is generated by plot.py at 2017-10-11 08:57:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 548.11 Mbit/s

95th percentile per-packet one-way delay: 180.856 ms

Loss rate: 0.86%

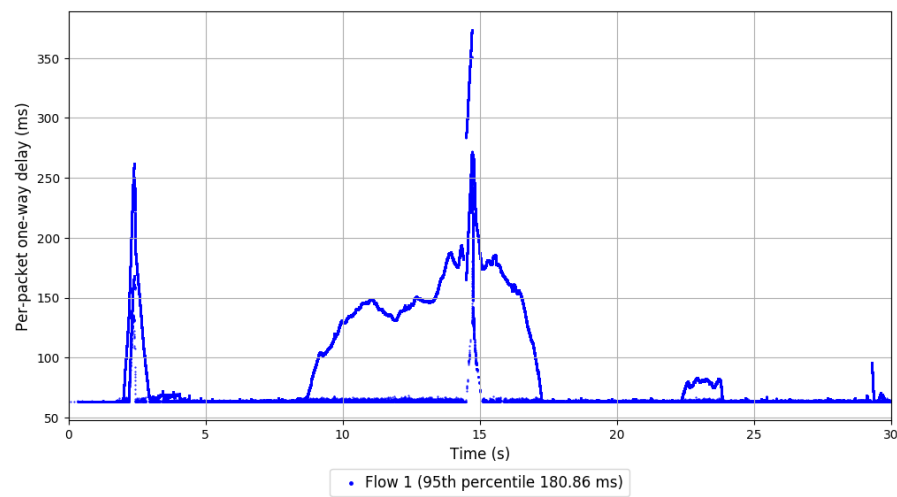
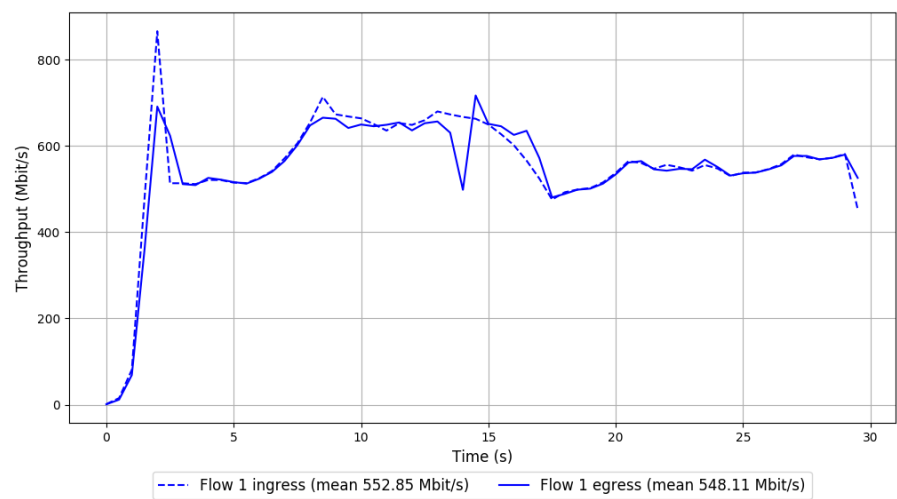
-- Flow 1:

Average throughput: 548.11 Mbit/s

95th percentile per-packet one-way delay: 180.856 ms

Loss rate: 0.86%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-10-11 07:10:50

End at: 2017-10-11 07:11:20

# Below is generated by plot.py at 2017-10-11 08:57:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 551.82 Mbit/s

95th percentile per-packet one-way delay: 186.180 ms

Loss rate: 0.74%

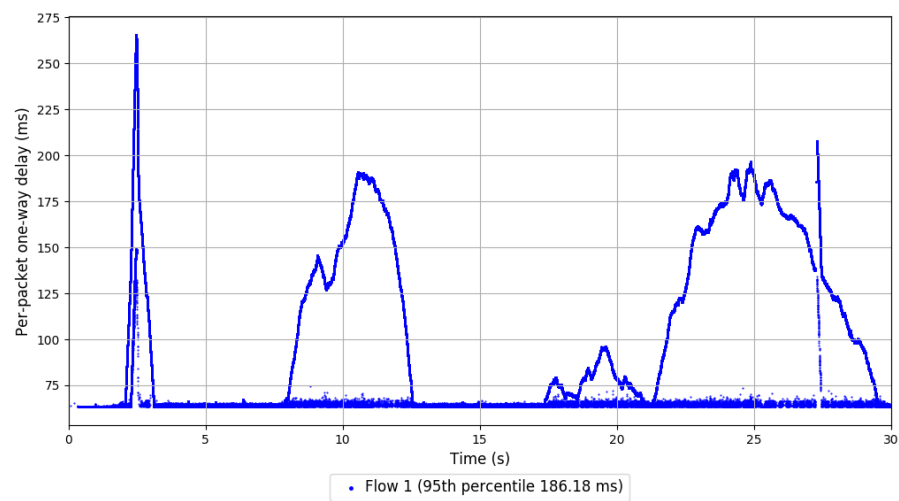
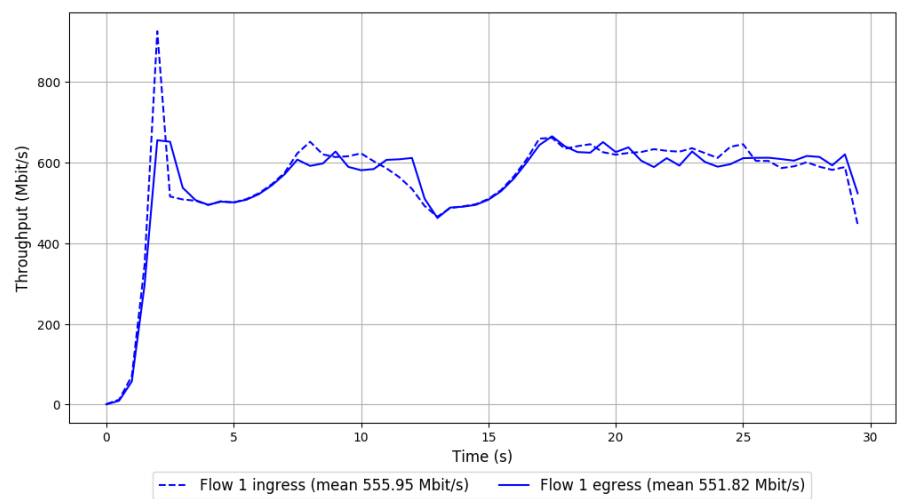
-- Flow 1:

Average throughput: 551.82 Mbit/s

95th percentile per-packet one-way delay: 186.180 ms

Loss rate: 0.74%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-10-11 07:21:44

End at: 2017-10-11 07:22:14

# Below is generated by plot.py at 2017-10-11 08:57:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 294.73 Mbit/s

95th percentile per-packet one-way delay: 116.748 ms

Loss rate: 0.12%

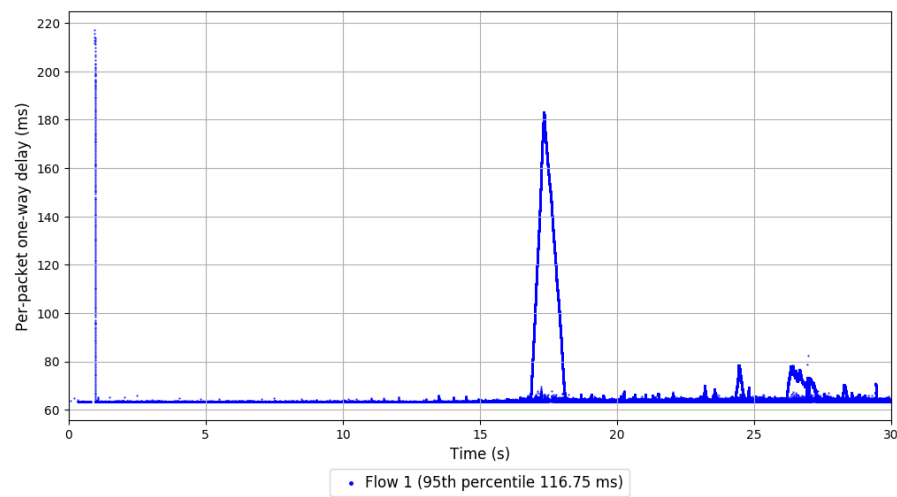
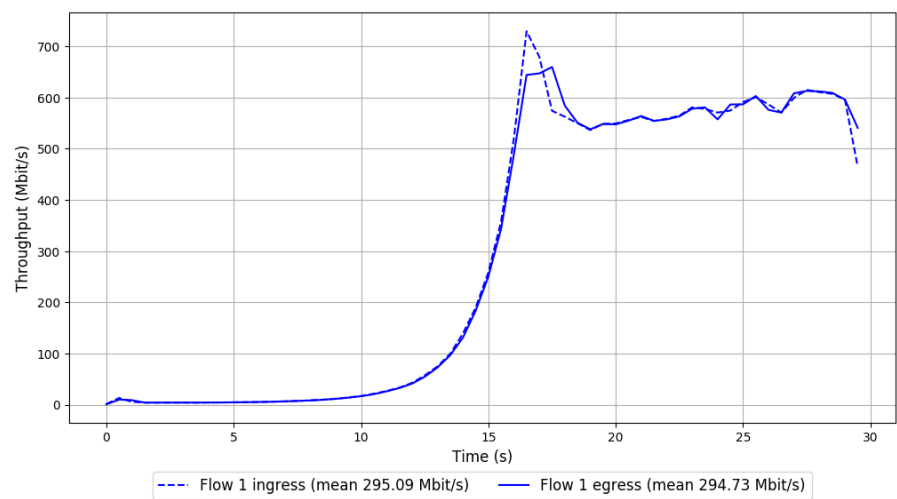
-- Flow 1:

Average throughput: 294.73 Mbit/s

95th percentile per-packet one-way delay: 116.748 ms

Loss rate: 0.12%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-10-11 07:32:21

End at: 2017-10-11 07:32:51

# Below is generated by plot.py at 2017-10-11 09:05:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 551.04 Mbit/s

95th percentile per-packet one-way delay: 192.270 ms

Loss rate: 1.52%

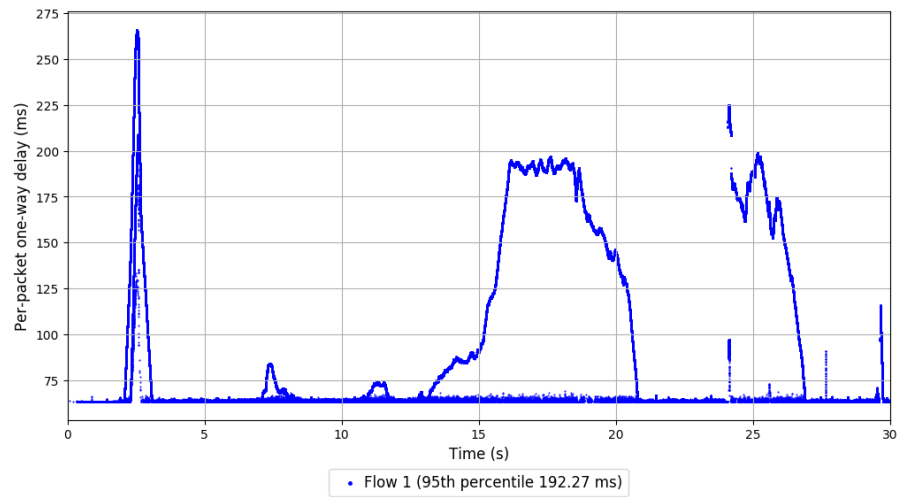
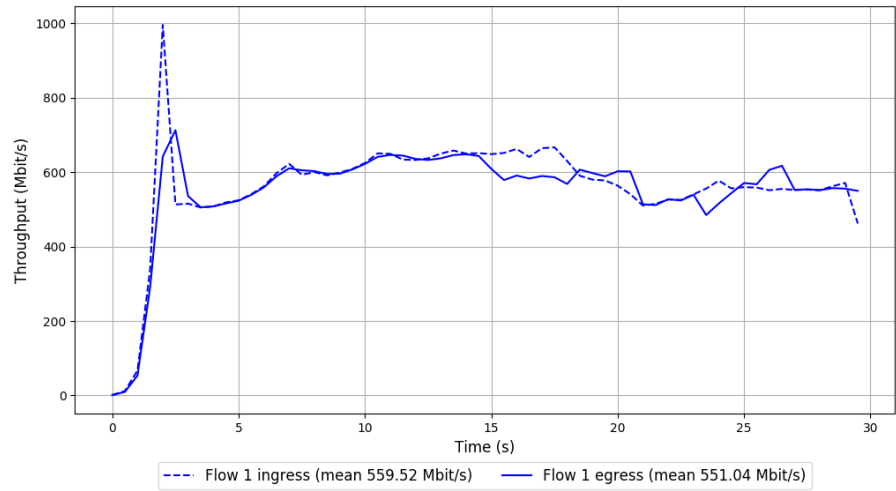
-- Flow 1:

Average throughput: 551.04 Mbit/s

95th percentile per-packet one-way delay: 192.270 ms

Loss rate: 1.52%

### Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-10-11 07:43:07

End at: 2017-10-11 07:43:37

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 558.71 Mbit/s

95th percentile per-packet one-way delay: 159.333 ms

Loss rate: 0.46%

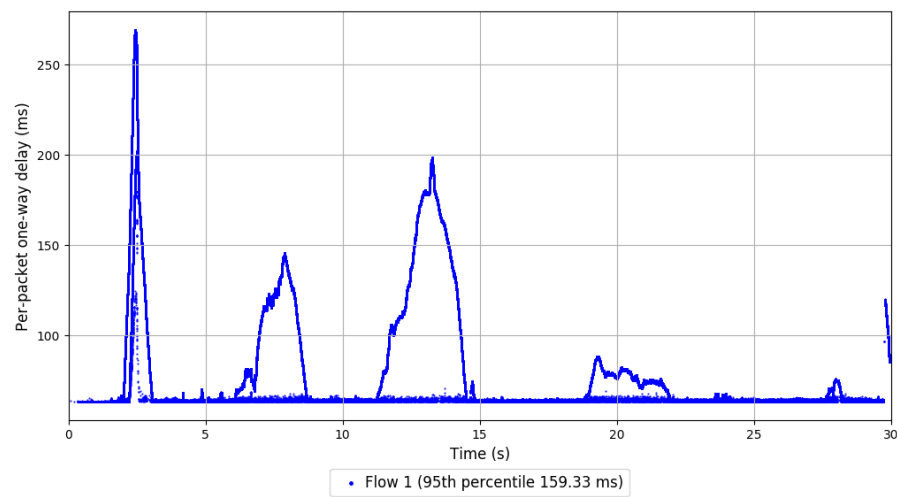
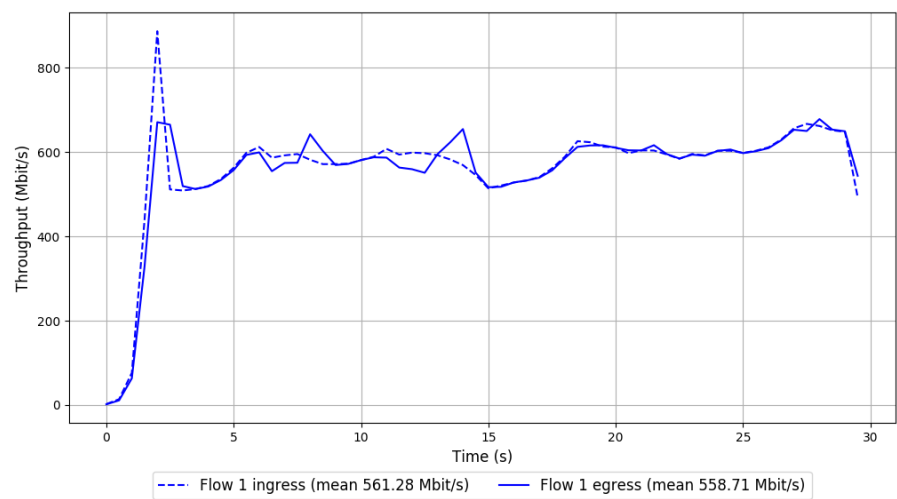
-- Flow 1:

Average throughput: 558.71 Mbit/s

95th percentile per-packet one-way delay: 159.333 ms

Loss rate: 0.46%

Run 10: Report of PCC — Data Link

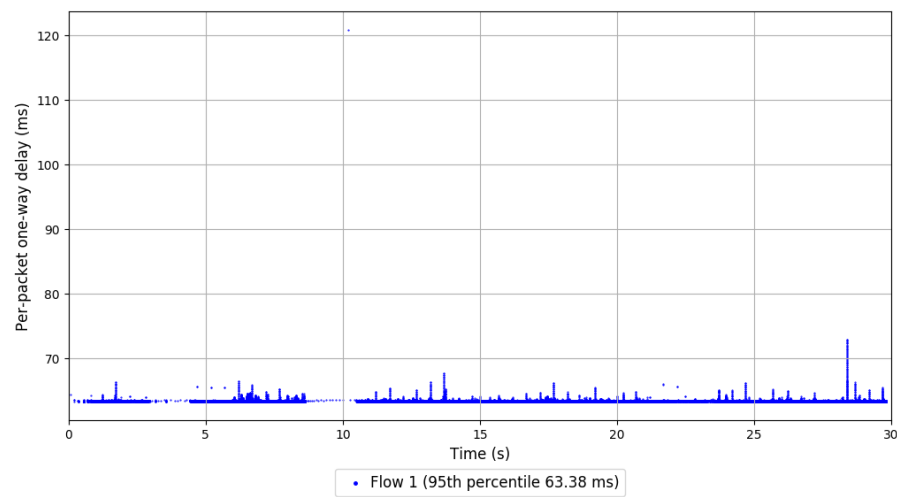
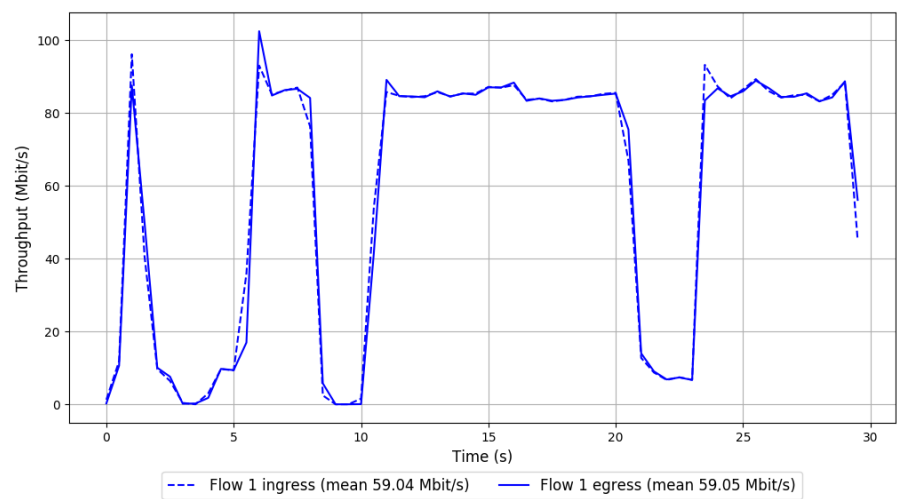


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-10-11 06:05:24
End at: 2017-10-11 06:05:54

# Below is generated by plot.py at 2017-10-11 09:07:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.05 Mbit/s
95th percentile per-packet one-way delay: 63.376 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.05 Mbit/s
95th percentile per-packet one-way delay: 63.376 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-10-11 06:16:24

End at: 2017-10-11 06:16:54

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 63.365 ms

Loss rate: 0.00%

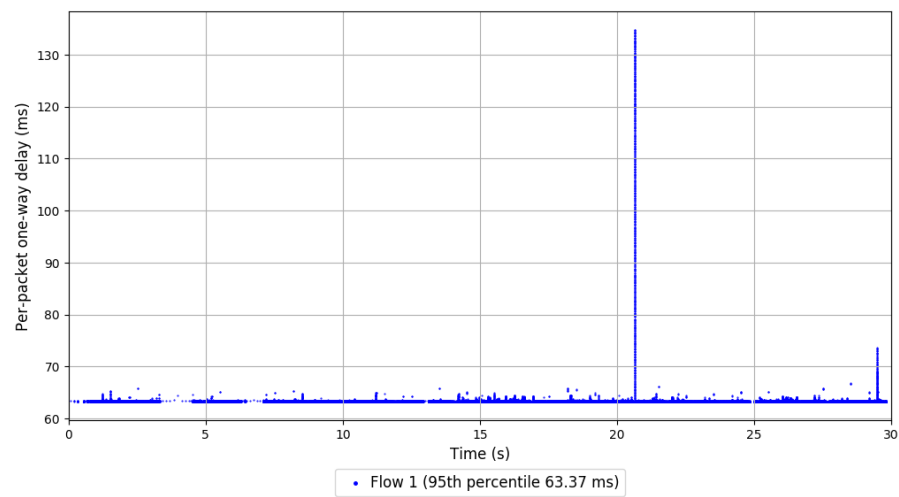
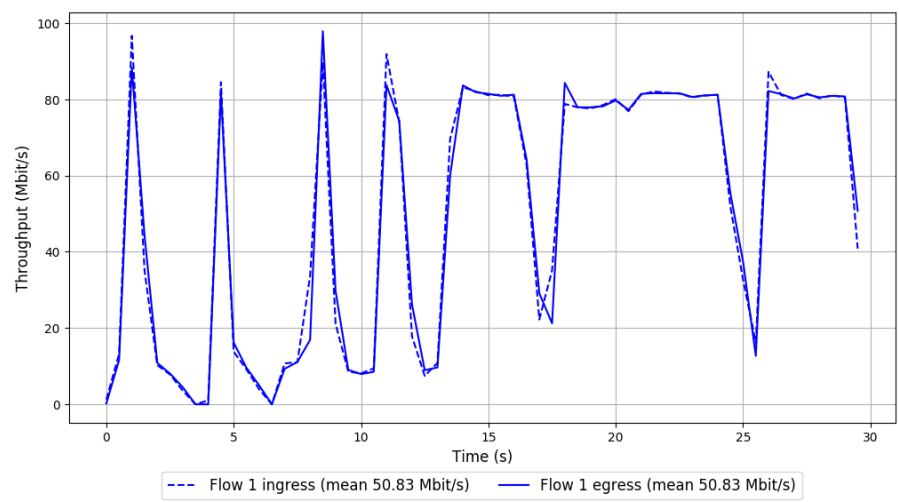
-- Flow 1:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 63.365 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-10-11 06:27:21

End at: 2017-10-11 06:27:51

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.84 Mbit/s

95th percentile per-packet one-way delay: 61.304 ms

Loss rate: 0.00%

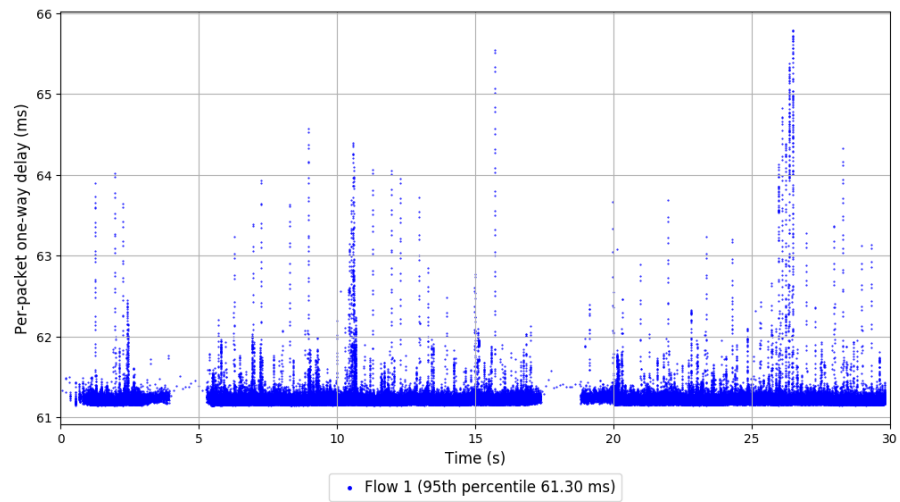
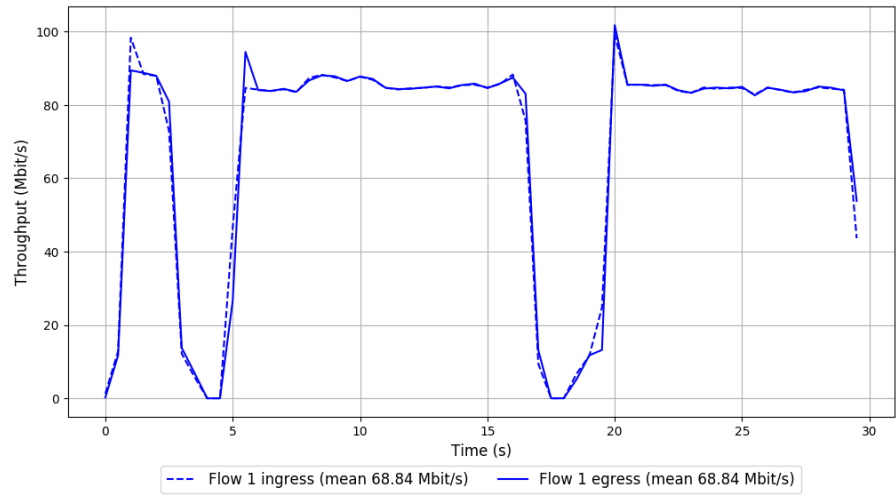
-- Flow 1:

Average throughput: 68.84 Mbit/s

95th percentile per-packet one-way delay: 61.304 ms

Loss rate: 0.00%

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



Run 4: Statistics of QUIC Cubic

Start at: 2017-10-11 06:38:08

End at: 2017-10-11 06:38:38

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.08 Mbit/s

95th percentile per-packet one-way delay: 61.710 ms

Loss rate: 0.00%

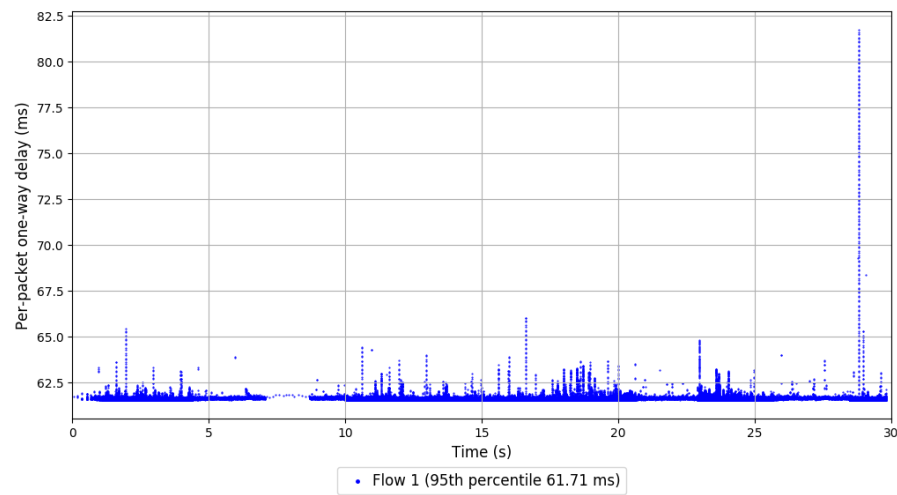
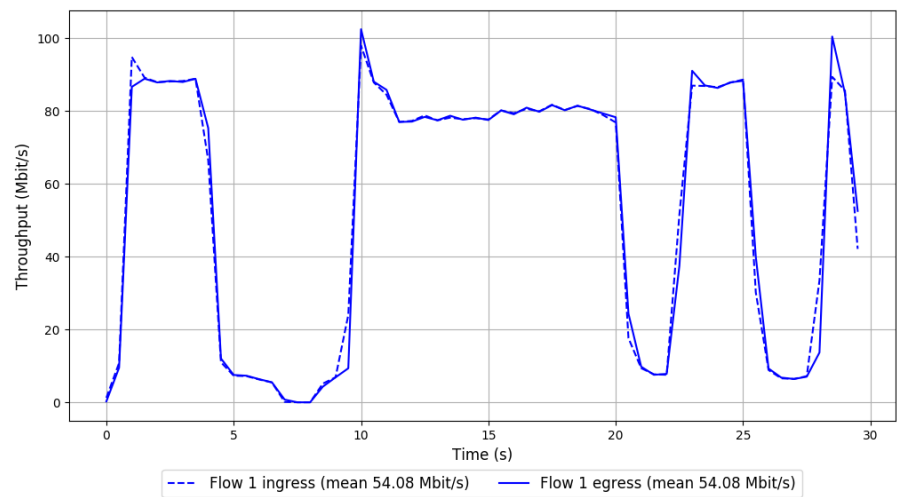
-- Flow 1:

Average throughput: 54.08 Mbit/s

95th percentile per-packet one-way delay: 61.710 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-10-11 06:48:55

End at: 2017-10-11 06:49:25

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.70 Mbit/s

95th percentile per-packet one-way delay: 63.530 ms

Loss rate: 0.01%

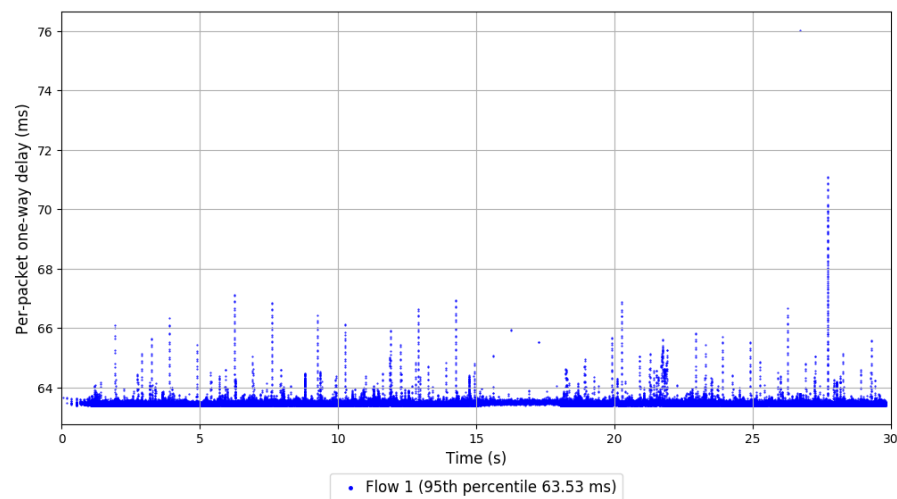
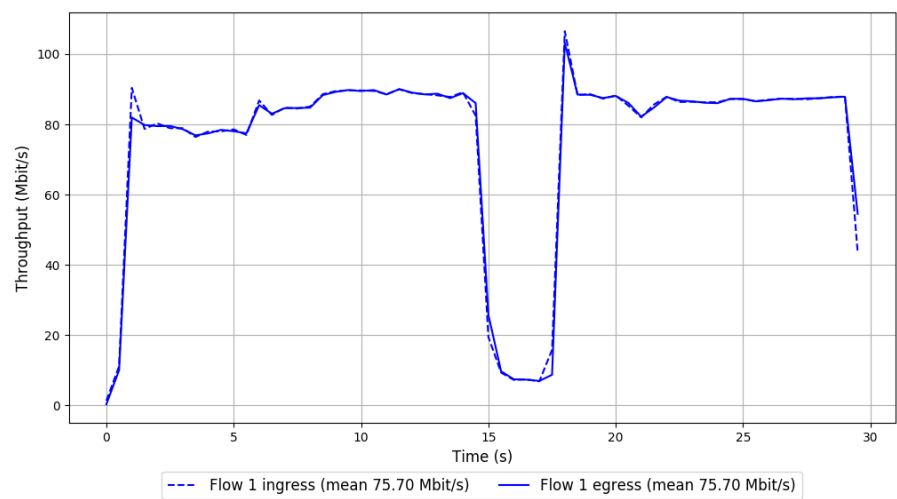
-- Flow 1:

Average throughput: 75.70 Mbit/s

95th percentile per-packet one-way delay: 63.530 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-10-11 06:59:21

End at: 2017-10-11 06:59:51

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 17.33 Mbit/s

95th percentile per-packet one-way delay: 61.432 ms

Loss rate: 0.00%

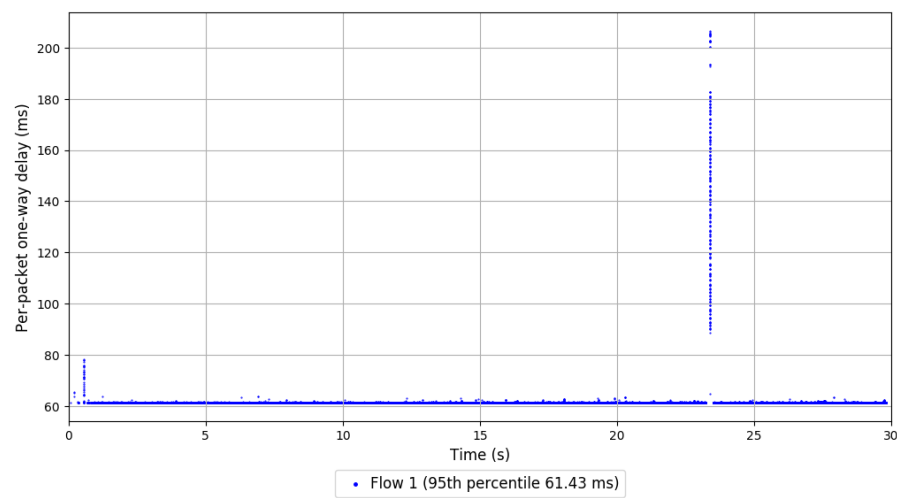
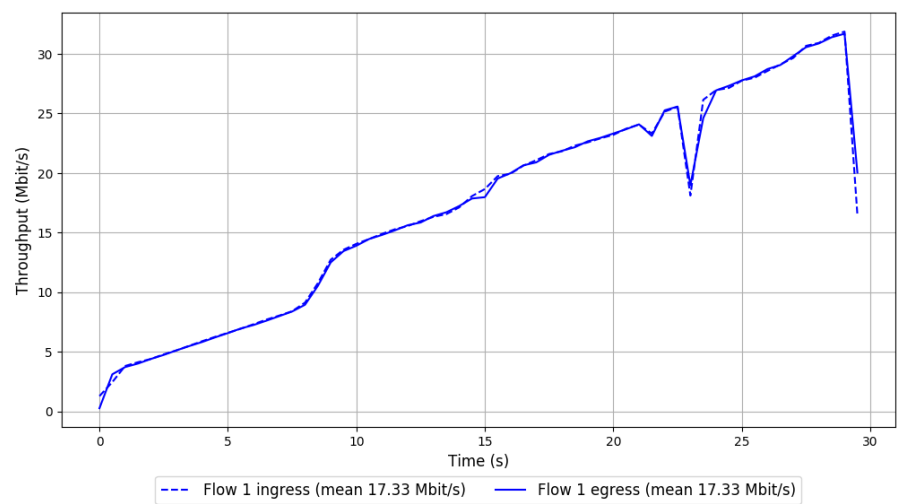
-- Flow 1:

Average throughput: 17.33 Mbit/s

95th percentile per-packet one-way delay: 61.432 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-10-11 07:10:09

End at: 2017-10-11 07:10:39

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 53.18 Mbit/s

95th percentile per-packet one-way delay: 61.327 ms

Loss rate: 0.00%

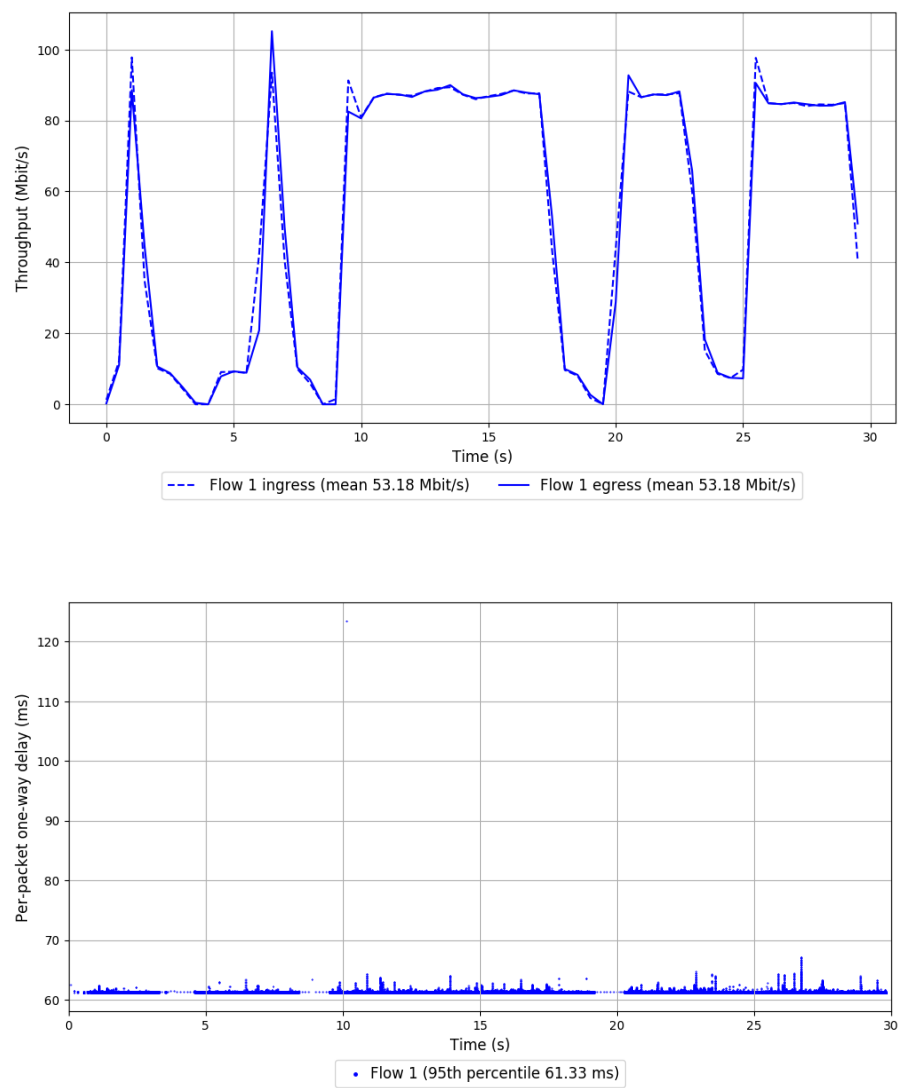
-- Flow 1:

Average throughput: 53.18 Mbit/s

95th percentile per-packet one-way delay: 61.327 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-10-11 07:21:03

End at: 2017-10-11 07:21:33

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.80 Mbit/s

95th percentile per-packet one-way delay: 63.611 ms

Loss rate: 0.00%

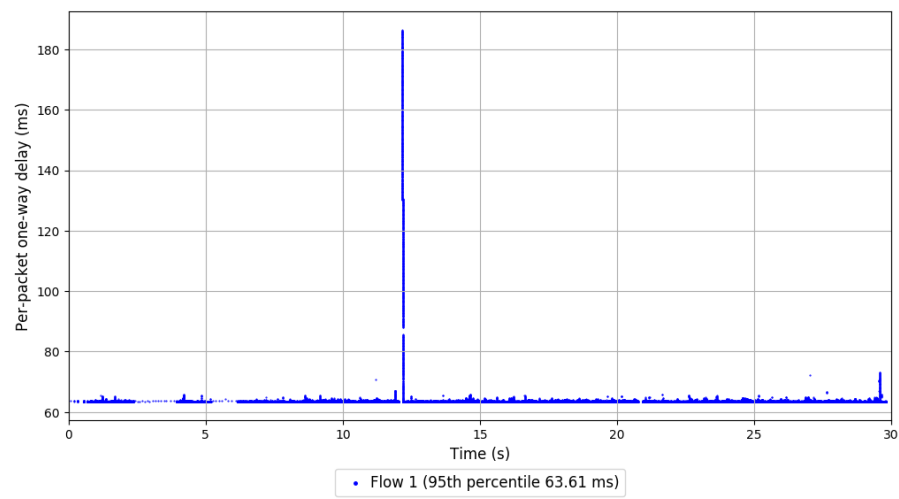
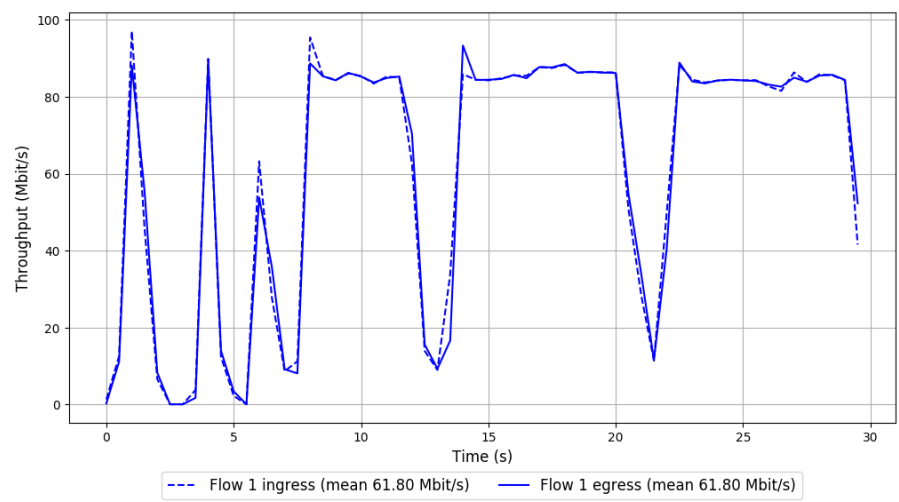
-- Flow 1:

Average throughput: 61.80 Mbit/s

95th percentile per-packet one-way delay: 63.611 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-10-11 07:31:39

End at: 2017-10-11 07:32:09

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.87 Mbit/s

95th percentile per-packet one-way delay: 61.363 ms

Loss rate: 0.00%

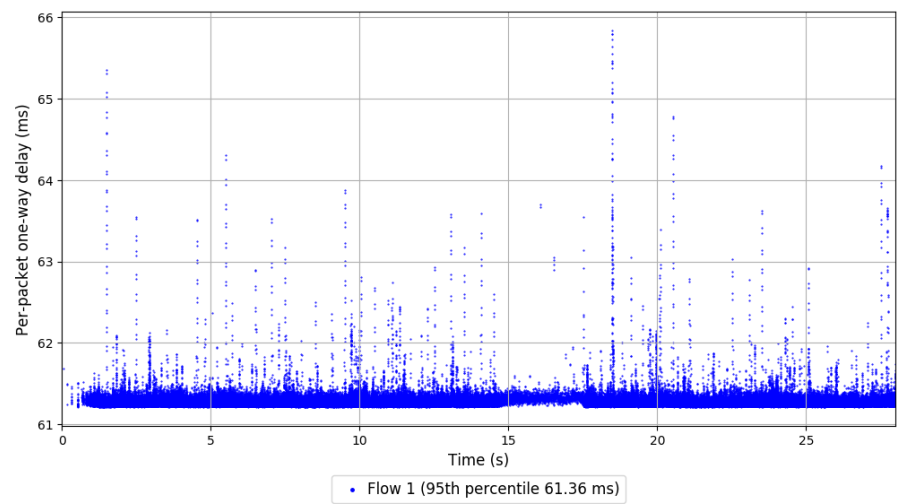
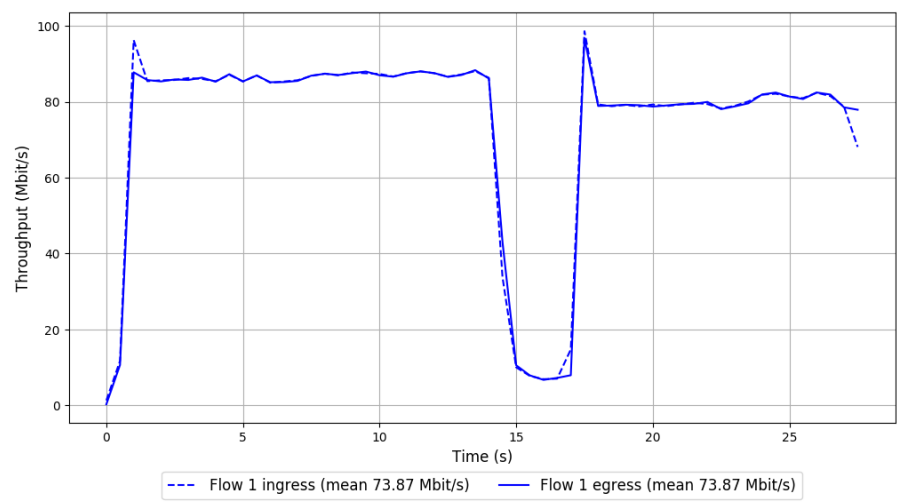
-- Flow 1:

Average throughput: 73.87 Mbit/s

95th percentile per-packet one-way delay: 61.363 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

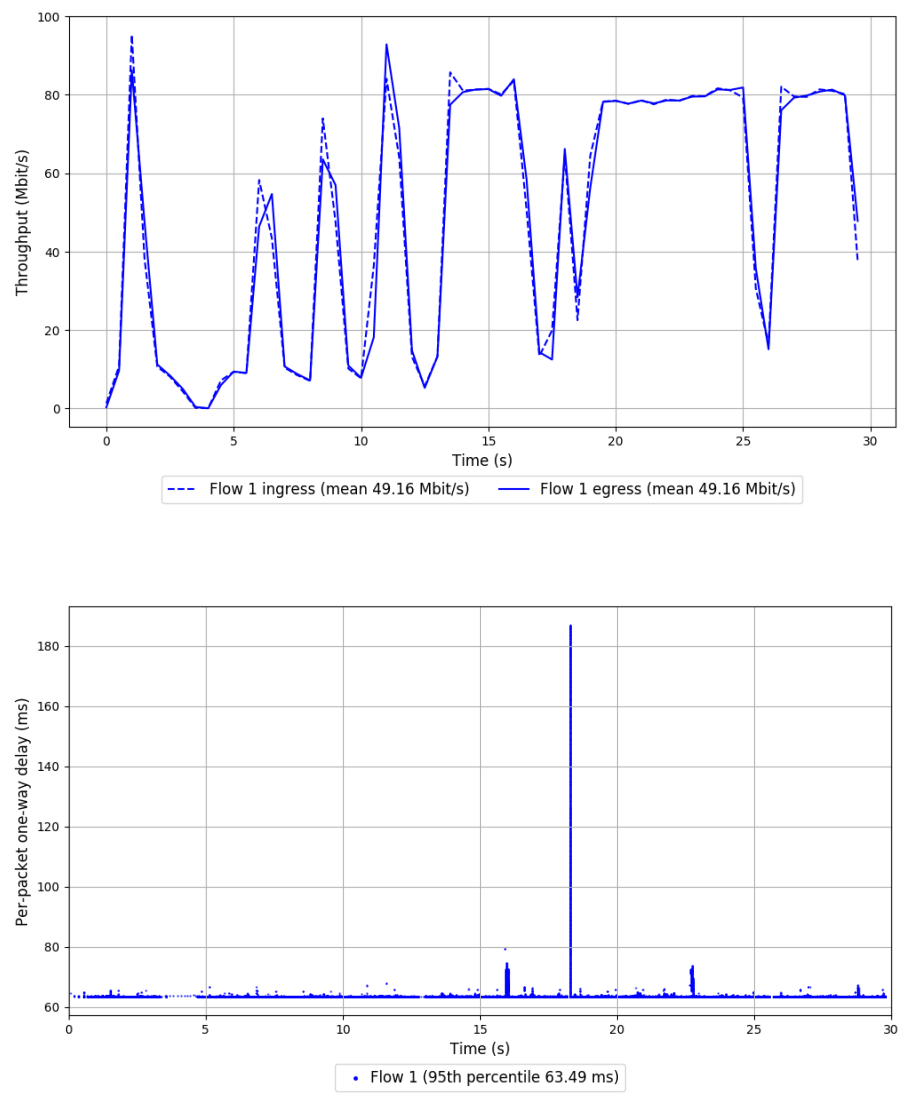


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-10-11 07:42:27
End at: 2017-10-11 07:42:57

# Below is generated by plot.py at 2017-10-11 09:07:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.16 Mbit/s
95th percentile per-packet one-way delay: 63.491 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 49.16 Mbit/s
95th percentile per-packet one-way delay: 63.491 ms
Loss rate: 0.01%
```

Run 10: Report of QUIC Cubic — Data Link

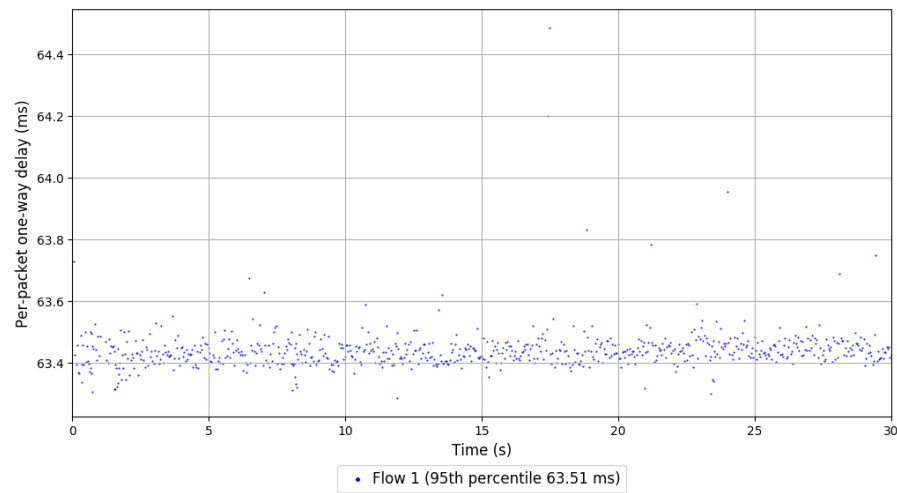
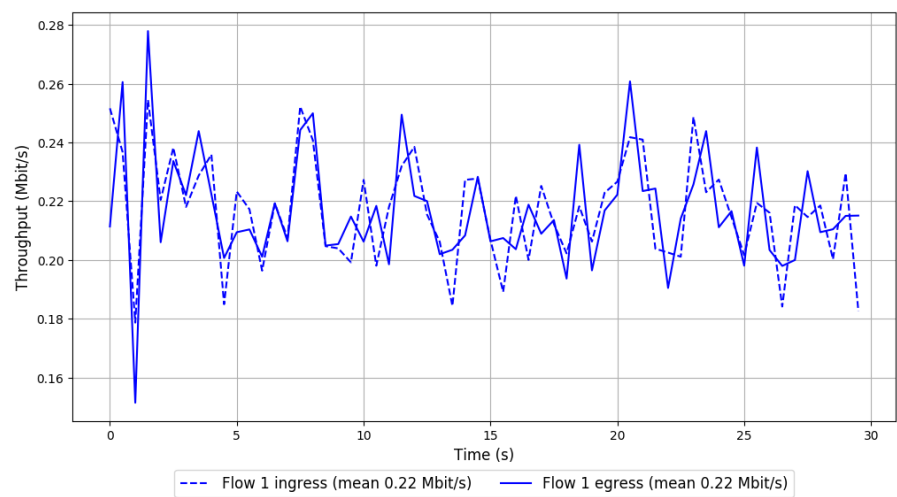


```
Run 1: Statistics of SCReAM

Start at: 2017-10-11 06:07:42
End at: 2017-10-11 06:08:12

# Below is generated by plot.py at 2017-10-11 09:07:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.510 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.510 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

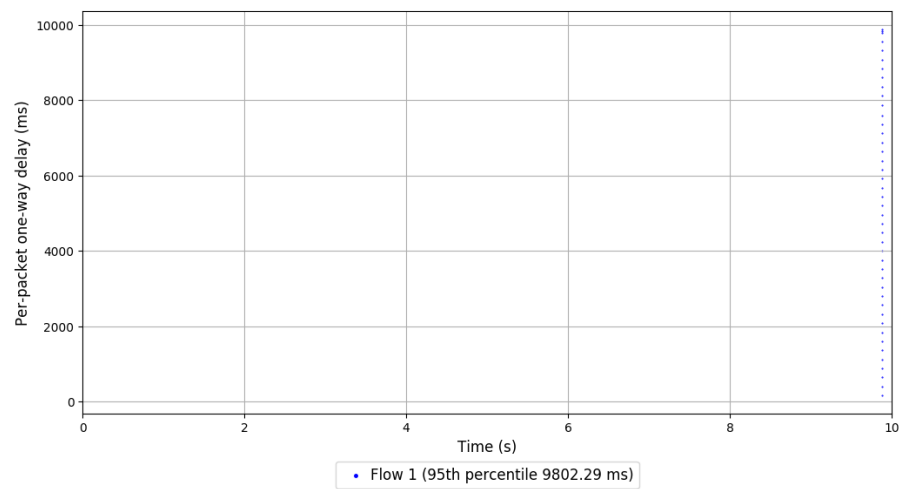
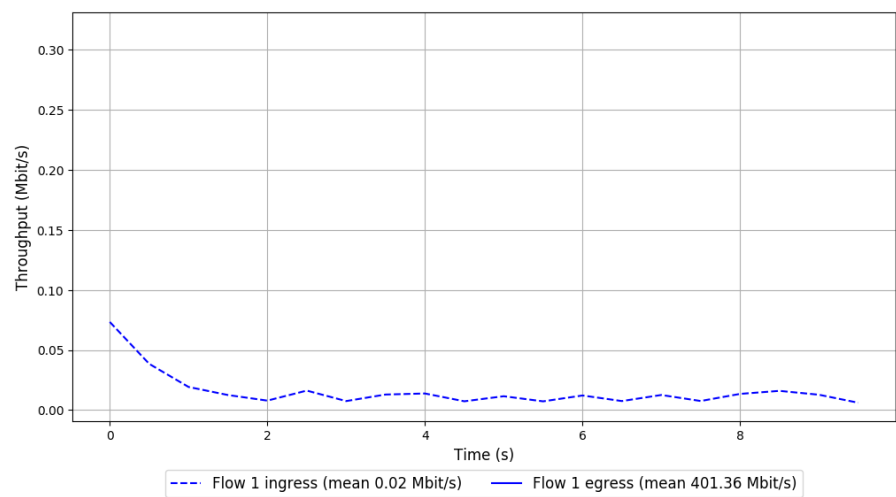


Run 2: Statistics of SReAM

Start at: 2017-10-11 06:18:43

End at: 2017-10-11 06:19:13

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-10-11 06:29:39

End at: 2017-10-11 06:30:09

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.592 ms

Loss rate: 0.00%

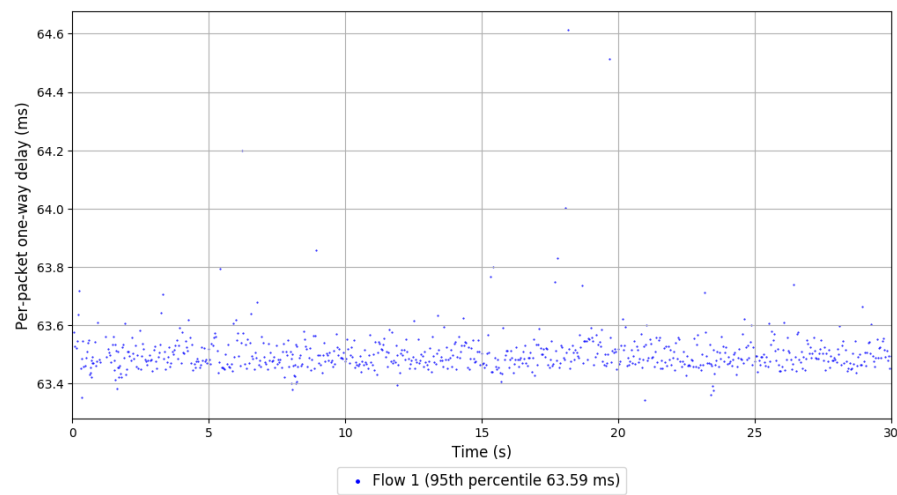
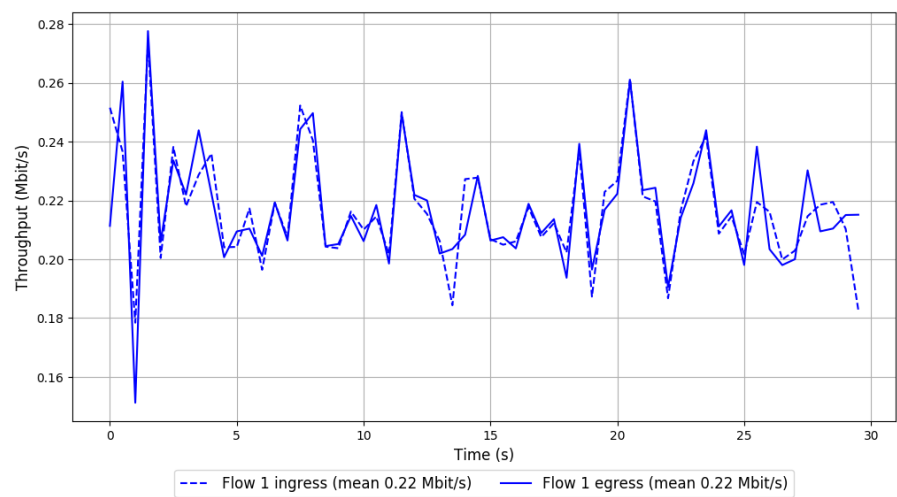
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.592 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-10-11 06:40:26

End at: 2017-10-11 06:40:56

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.731 ms

Loss rate: 0.00%

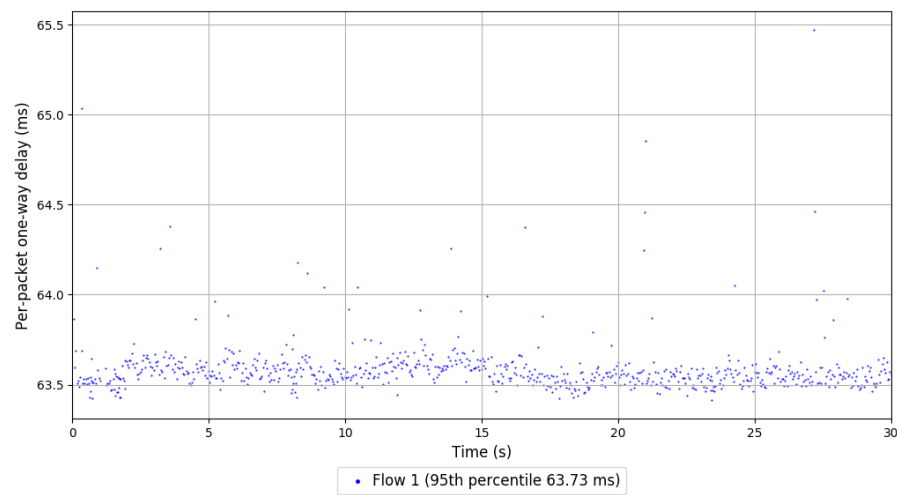
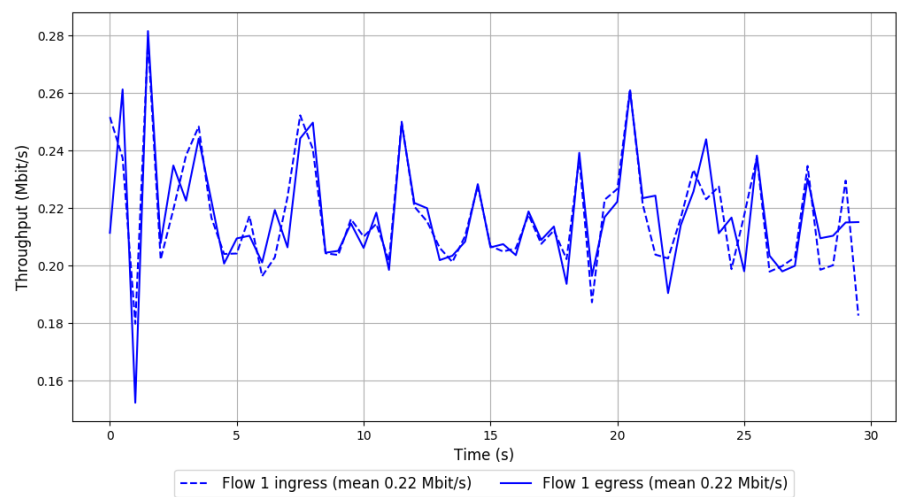
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.731 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

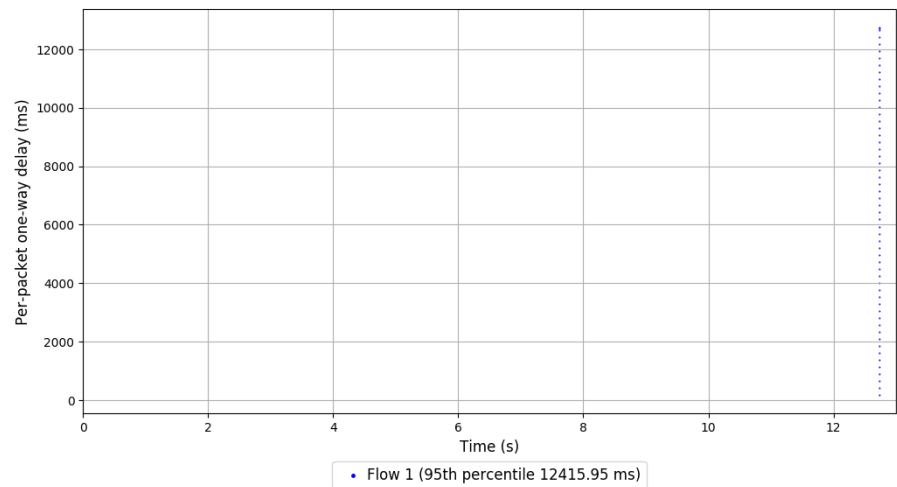
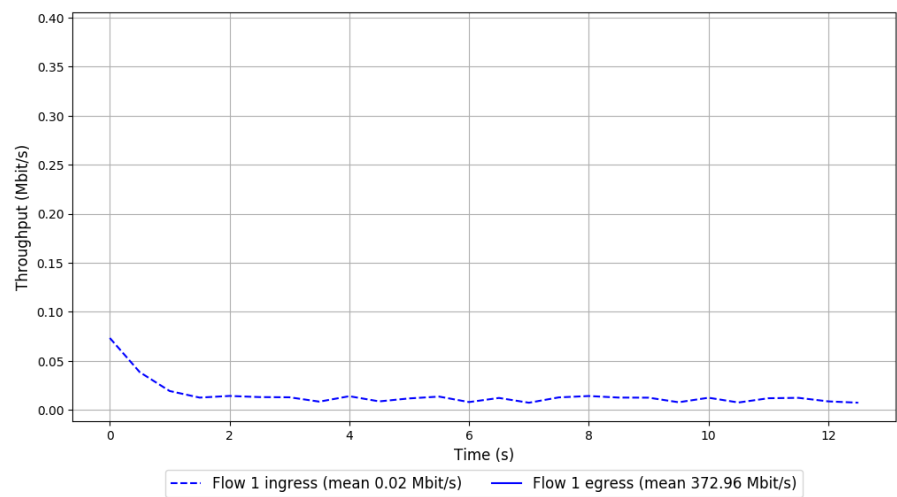


Run 5: Statistics of SReAM

Start at: 2017-10-11 06:51:14

End at: 2017-10-11 06:51:44

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-10-11 07:01:37

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

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.510 ms

Loss rate: 0.00%

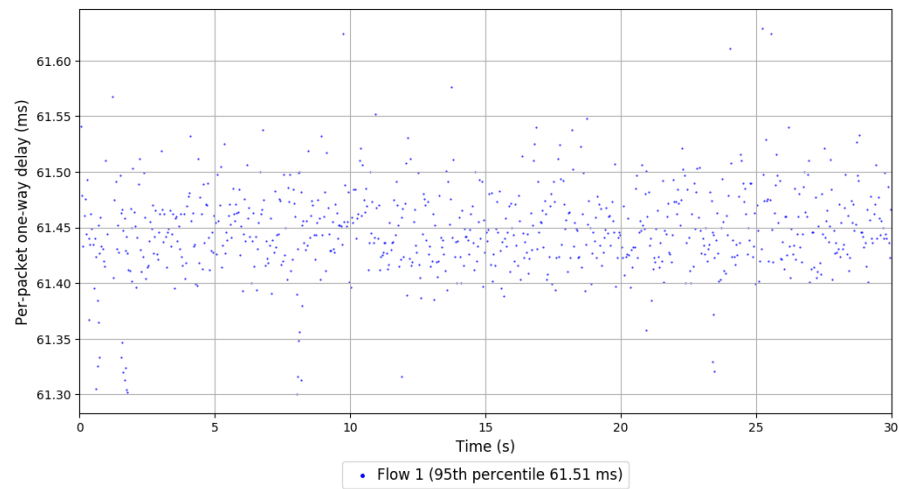
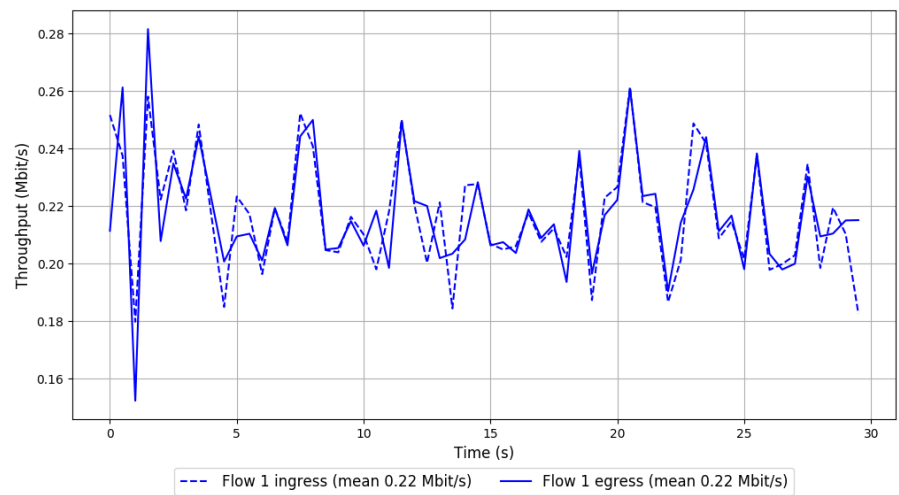
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.510 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

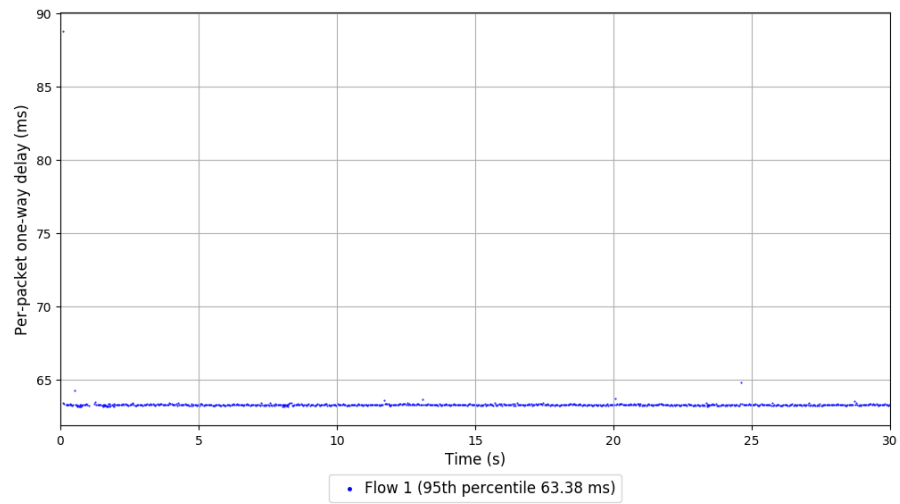
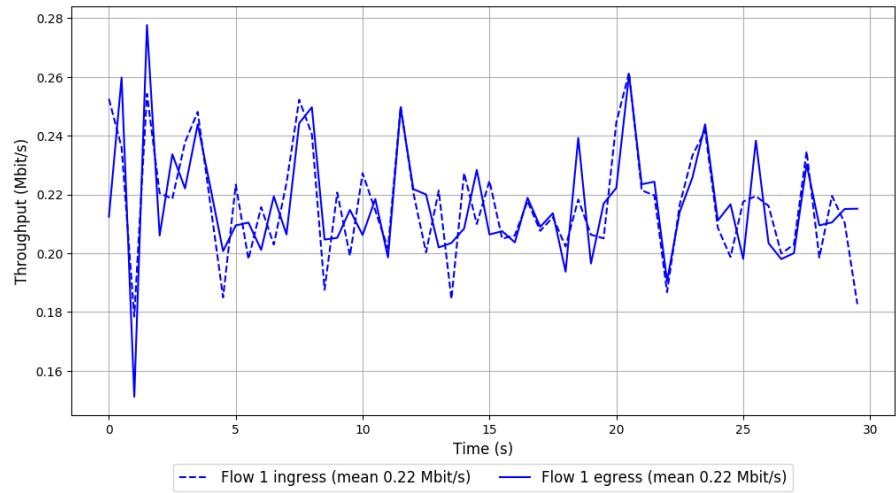


```
Run 7: Statistics of SCReAM

Start at: 2017-10-11 07:12:27
End at: 2017-10-11 07:12:57

# Below is generated by plot.py at 2017-10-11 09:07:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.378 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.378 ms
Loss rate: 0.00%
```

## Run 7: Report of SReAM — Data Link

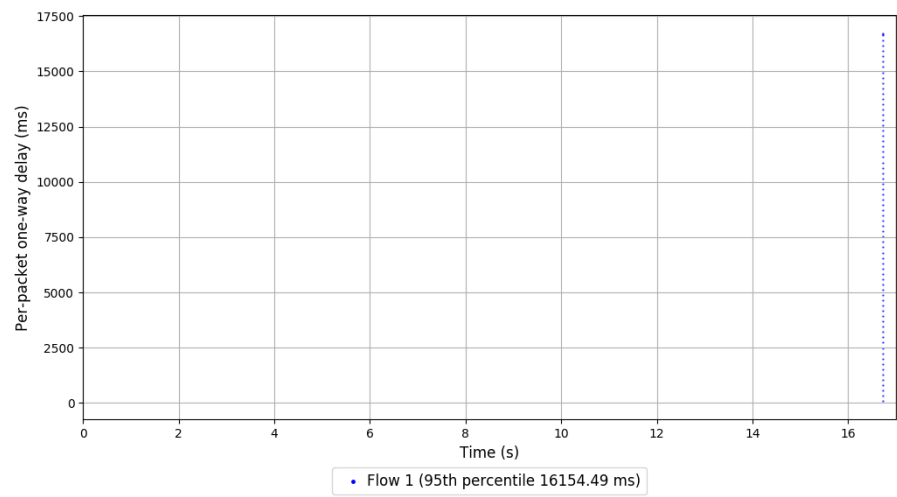
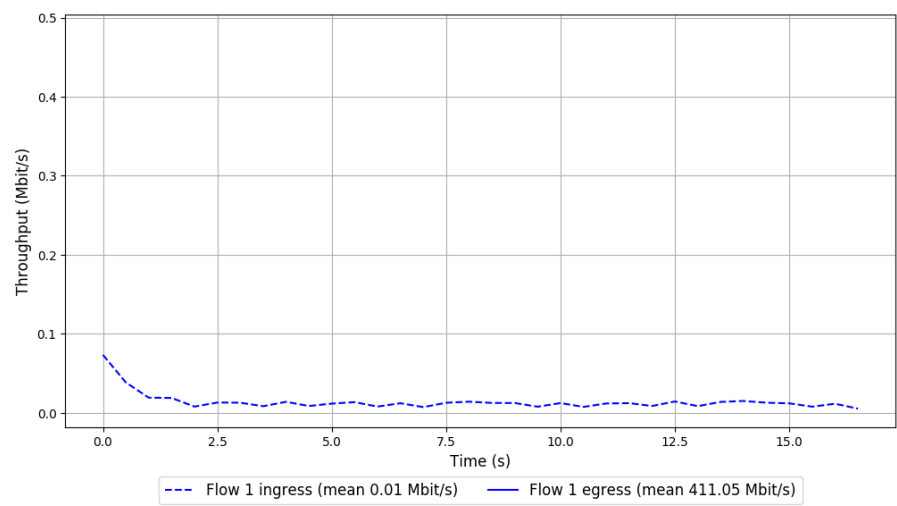


Run 8: Statistics of SReAM

Start at: 2017-10-11 07:23:11

End at: 2017-10-11 07:23:41

Run 8: Report of SReAM — Data Link

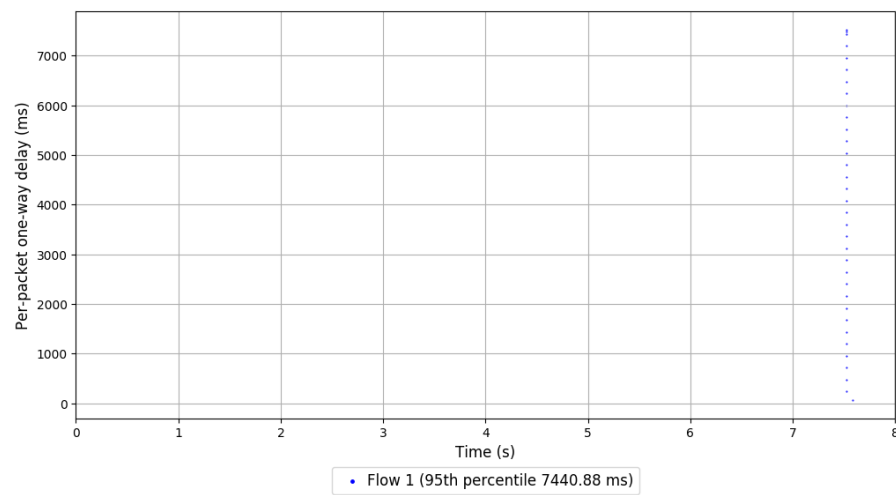
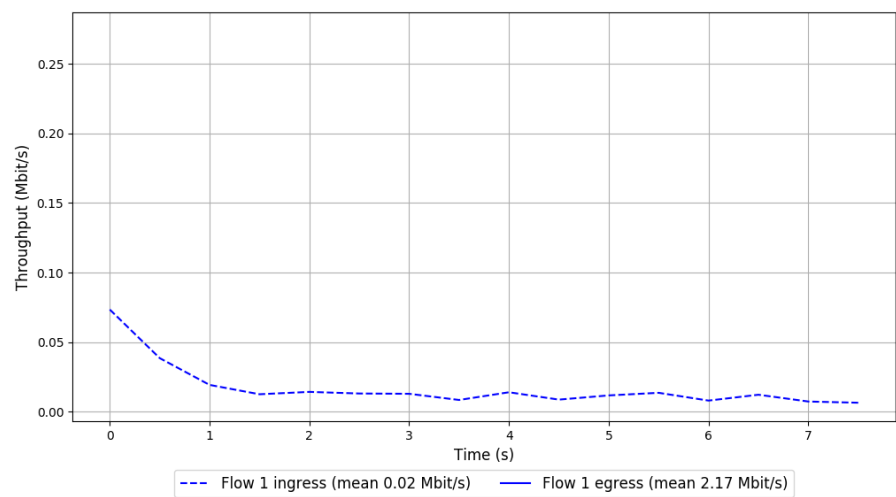


Run 9: Statistics of SCReAM

Start at: 2017-10-11 07:33:57

End at: 2017-10-11 07:34:27

Run 9: Report of SReAM — Data Link

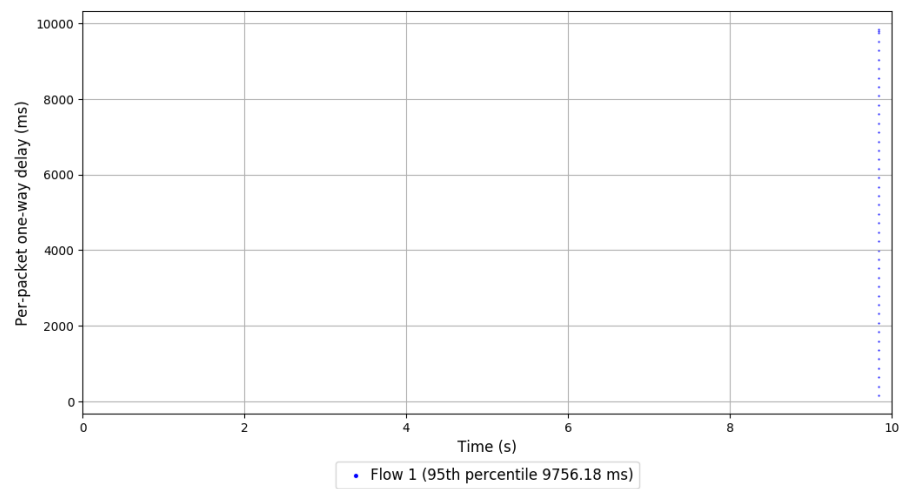
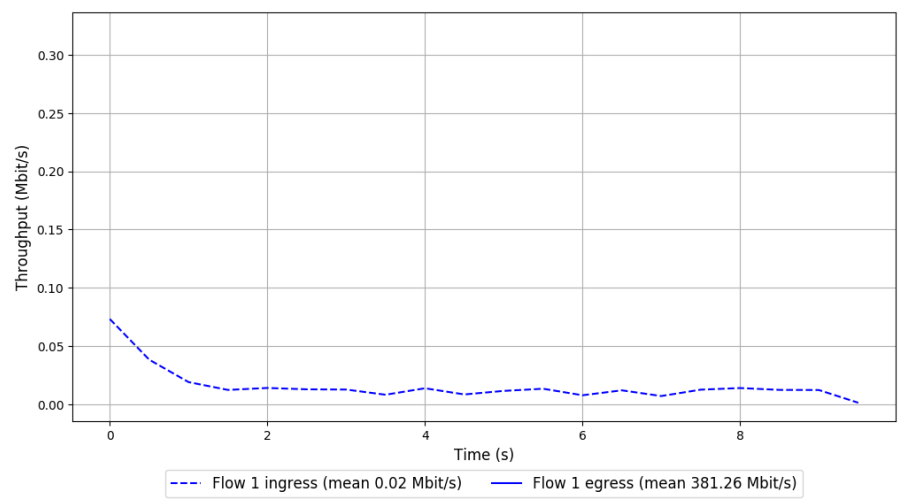


Run 10: Statistics of SCReAM

Start at: 2017-10-11 07:44:44

End at: 2017-10-11 07:45:14

Run 10: Report of SCReAM — Data Link

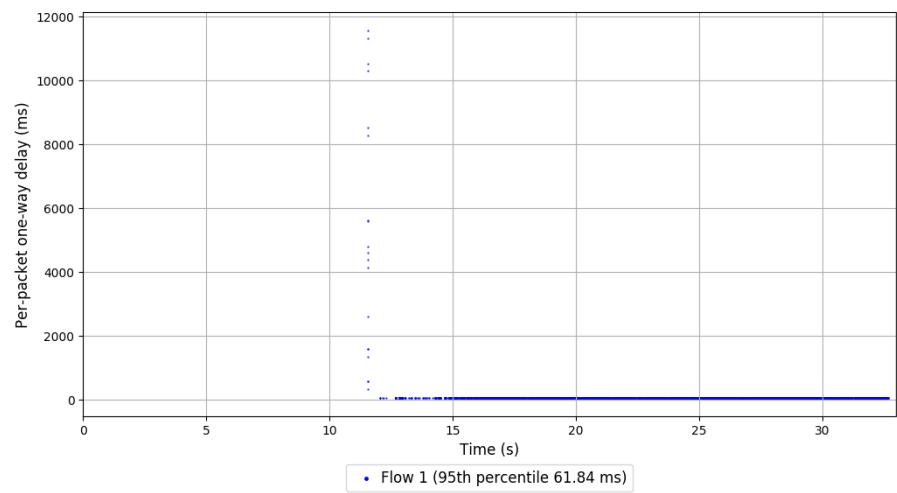
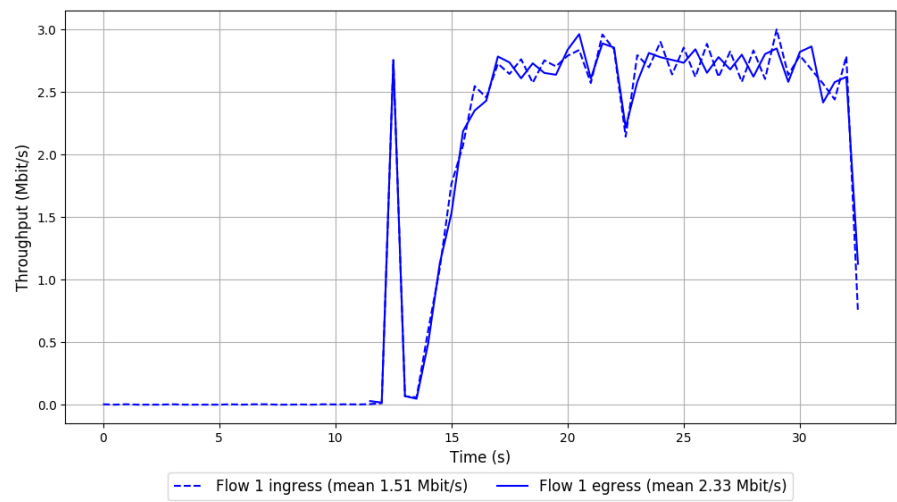


Run 1: Statistics of WebRTC media

Start at: 2017-10-11 06:03:51

End at: 2017-10-11 06:04:21

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-10-11 06:14:51

End at: 2017-10-11 06:15:21

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 61.756 ms

Loss rate: 0.00%

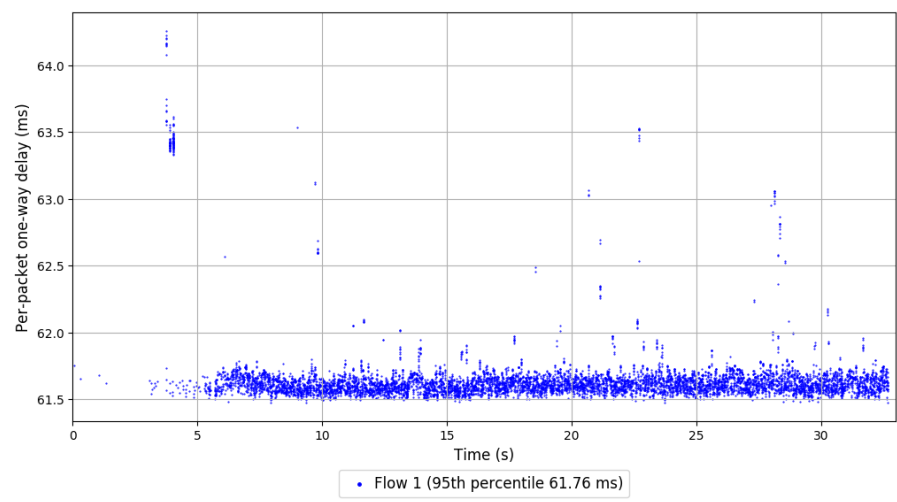
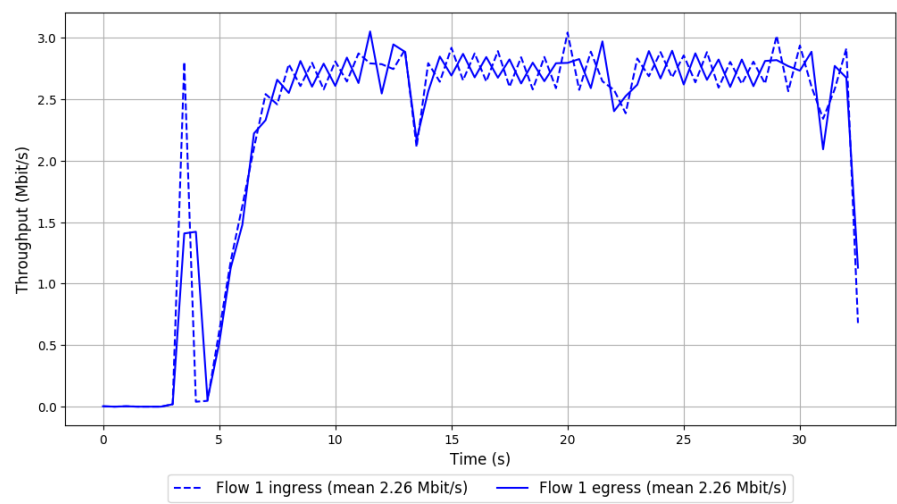
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 61.756 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-10-11 06:25:46

End at: 2017-10-11 06:26:16

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 63.555 ms

Loss rate: 0.00%

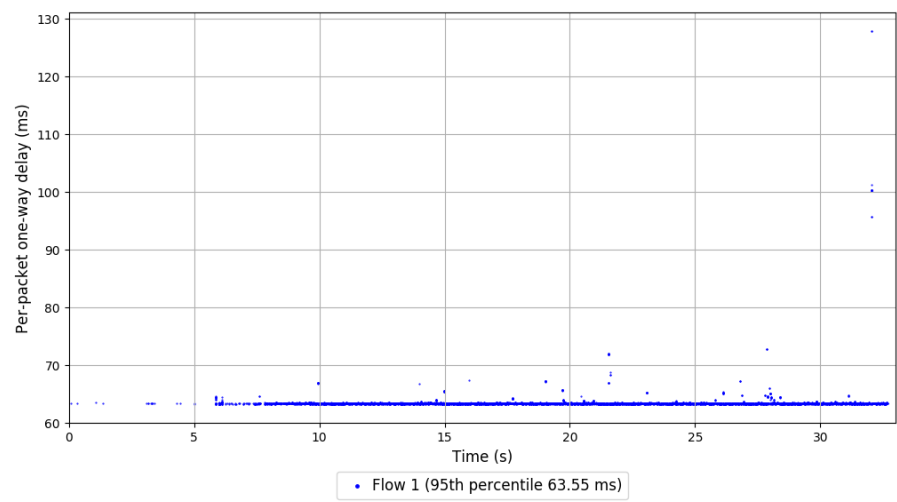
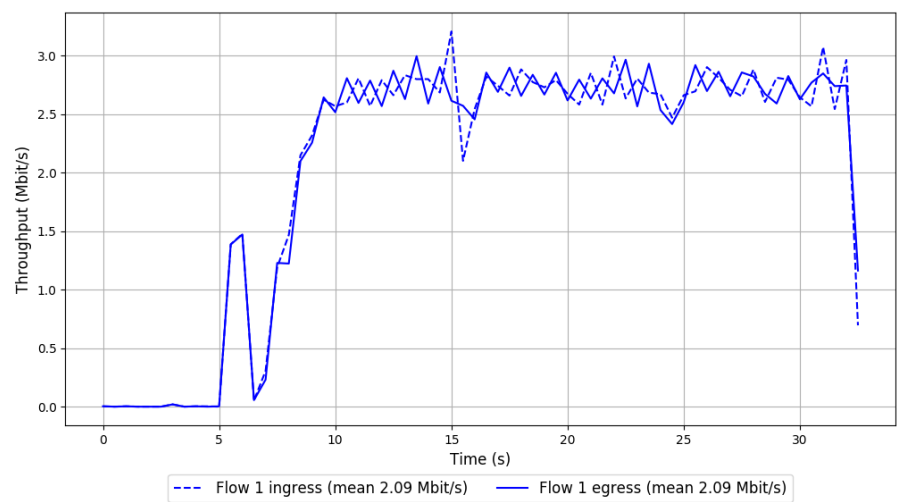
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 63.555 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-10-11 06:36:36

End at: 2017-10-11 06:37:06

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.717 ms

Loss rate: 0.00%

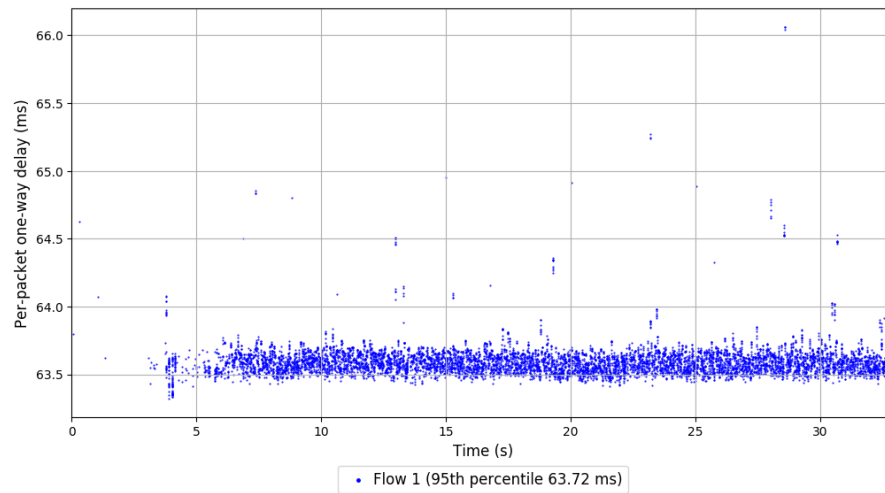
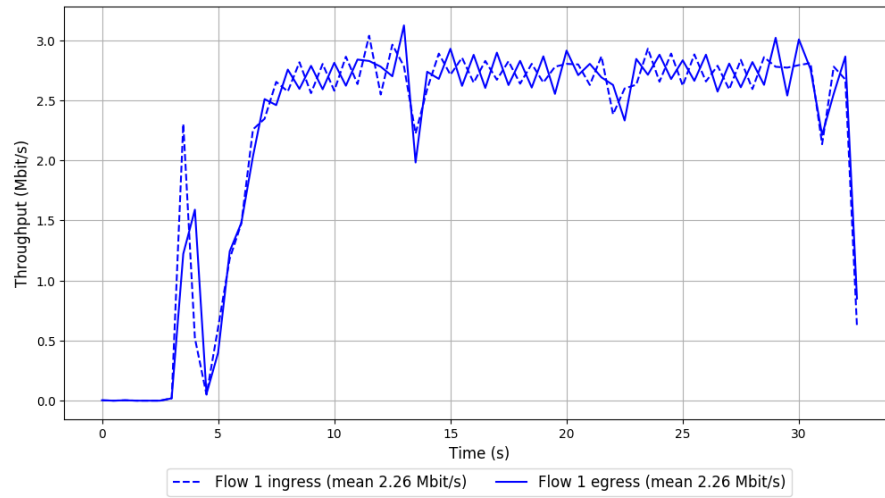
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.717 ms

Loss rate: 0.00%

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



Run 5: Statistics of WebRTC media

Start at: 2017-10-11 06:47:20

End at: 2017-10-11 06:47:50

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 61.820 ms

Loss rate: 0.00%

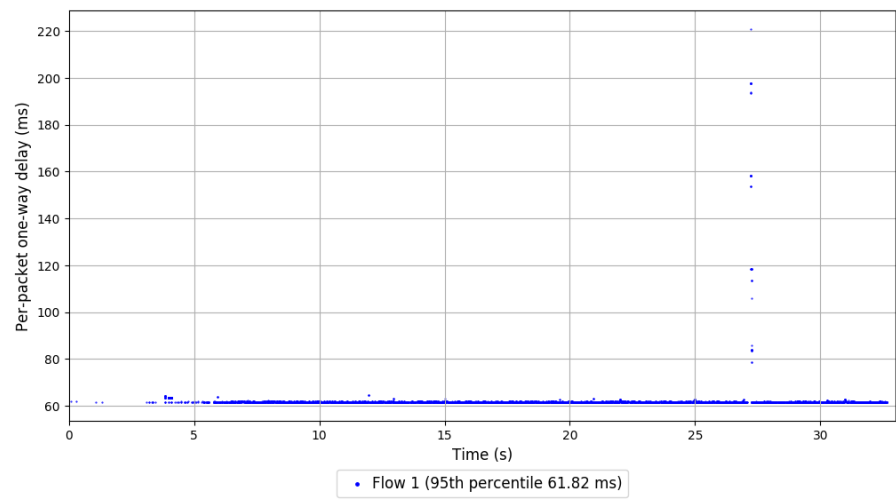
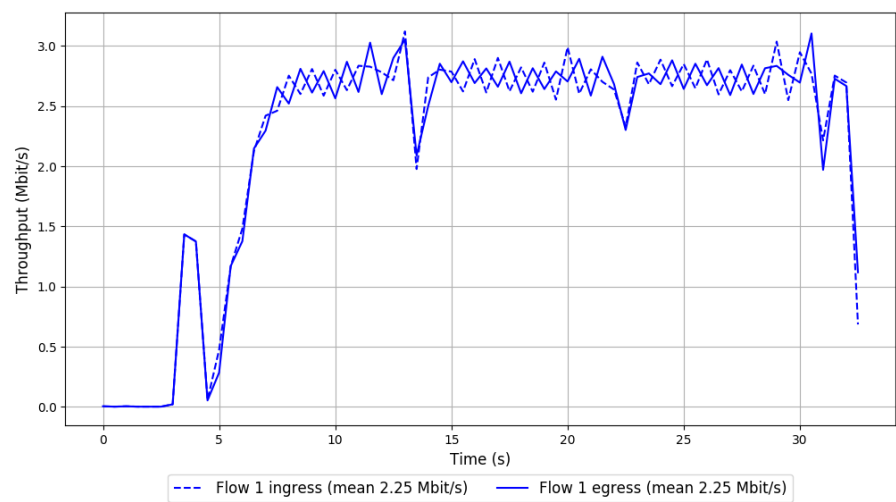
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 61.820 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-10-11 06:57:48

End at: 2017-10-11 06:58:18

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.687 ms

Loss rate: 0.00%

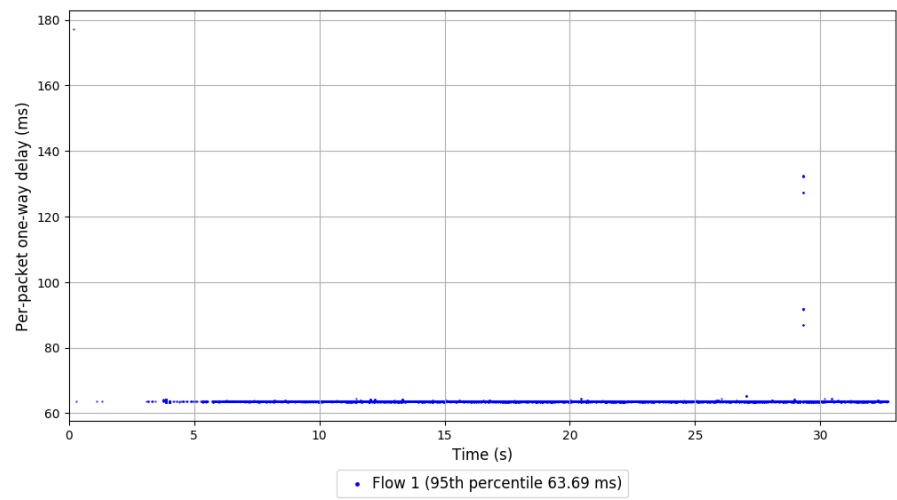
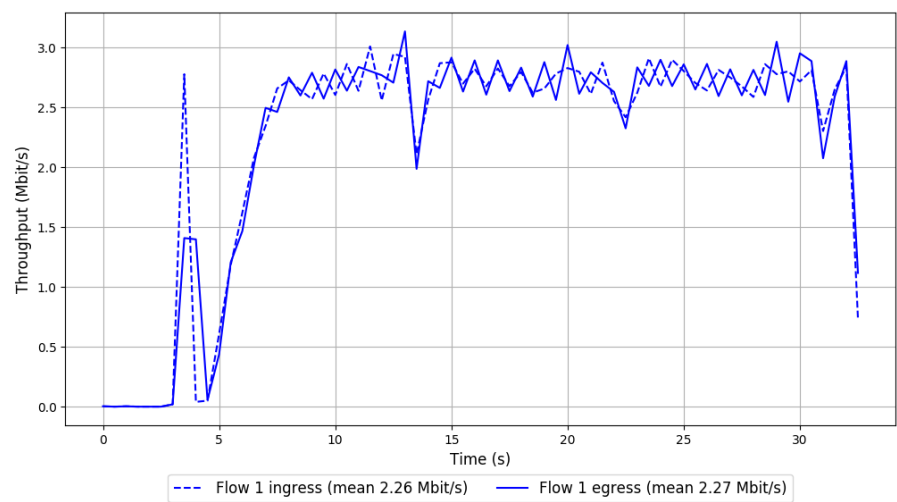
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.687 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-10-11 07:08:36

End at: 2017-10-11 07:09:06

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.416 ms

Loss rate: 0.00%

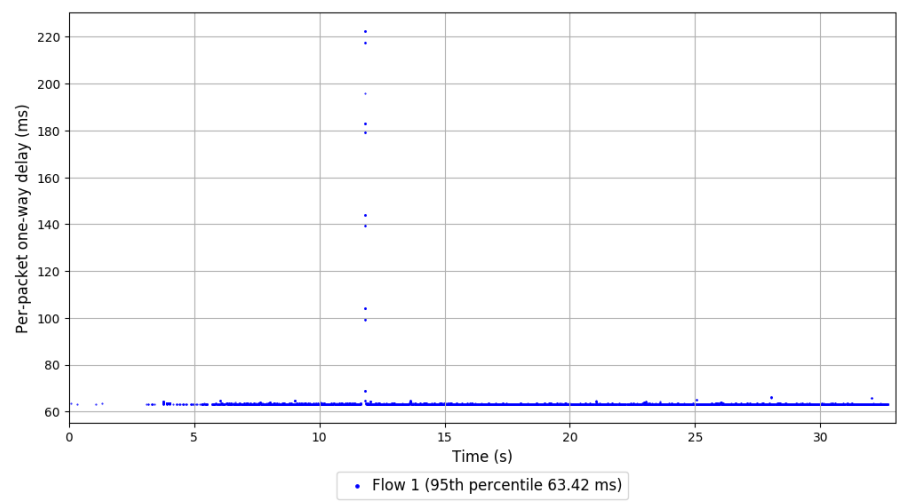
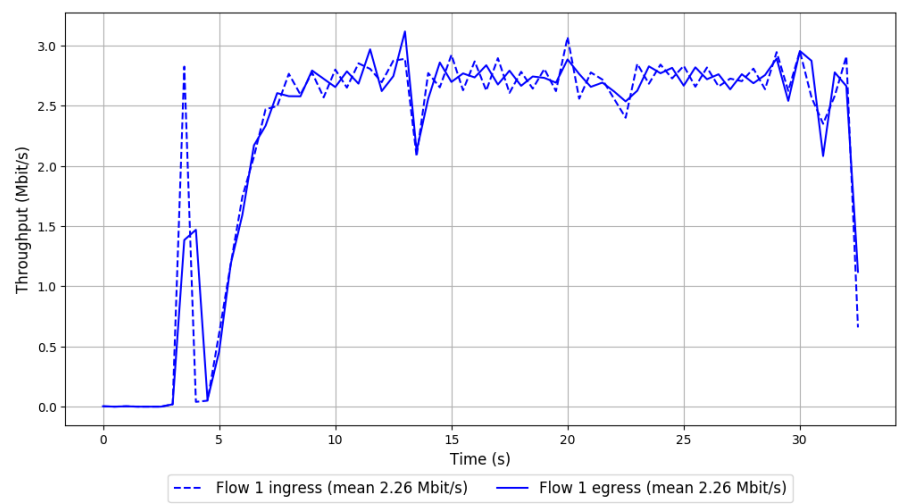
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.416 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-10-11 07:19:31

End at: 2017-10-11 07:20:01

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 61.686 ms

Loss rate: 0.00%

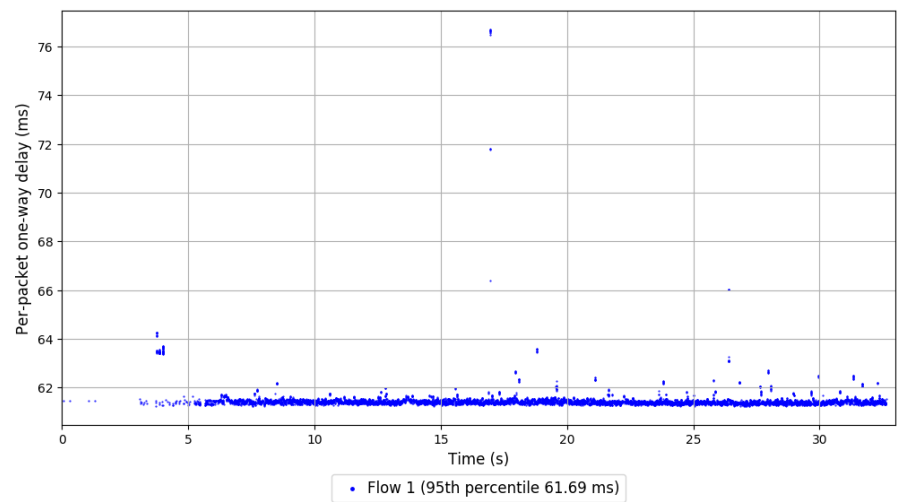
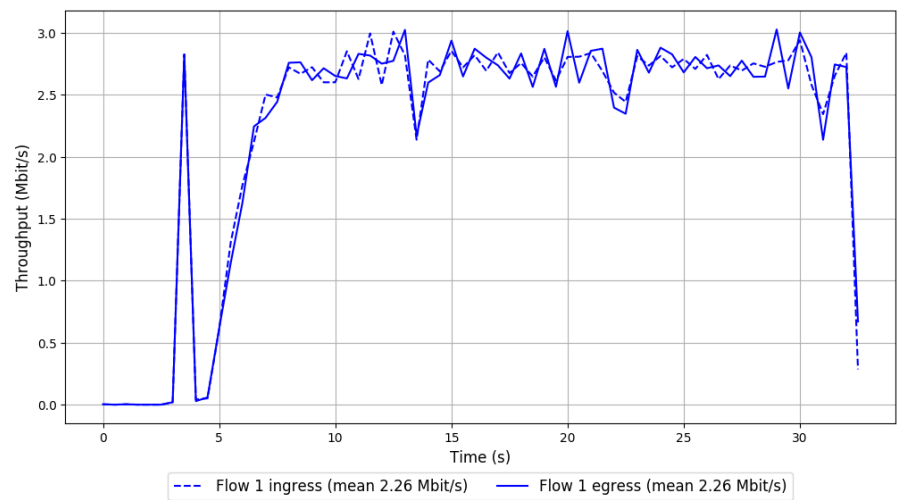
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 61.686 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-10-11 07:30:07

End at: 2017-10-11 07:30:37

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 61.554 ms

Loss rate: 0.00%

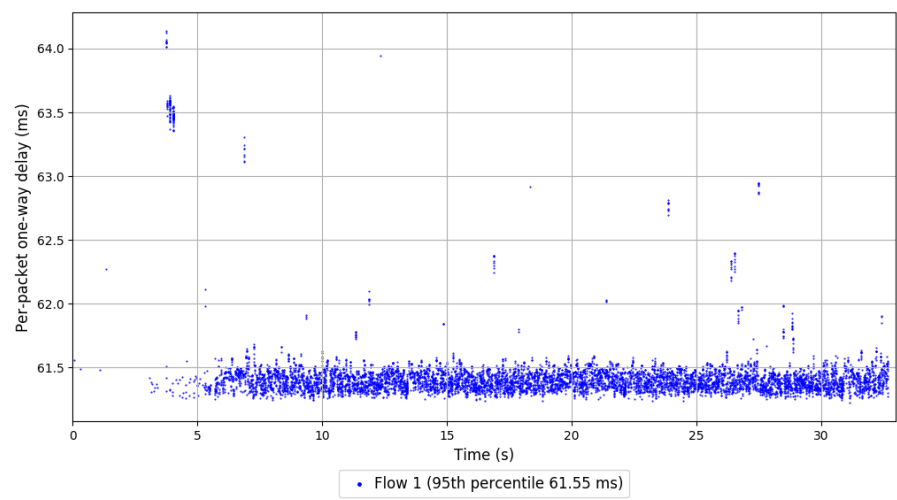
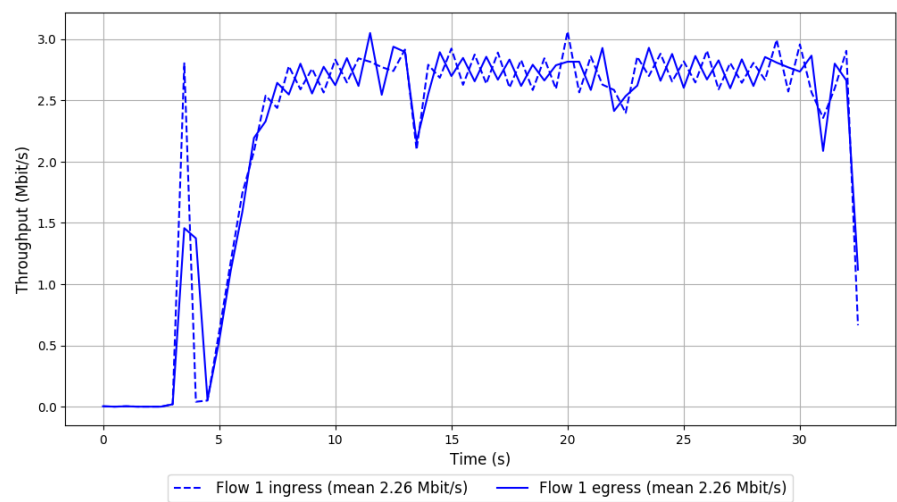
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 61.554 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-10-11 07:40:59

End at: 2017-10-11 07:41:29

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 61.573 ms

Loss rate: 0.00%

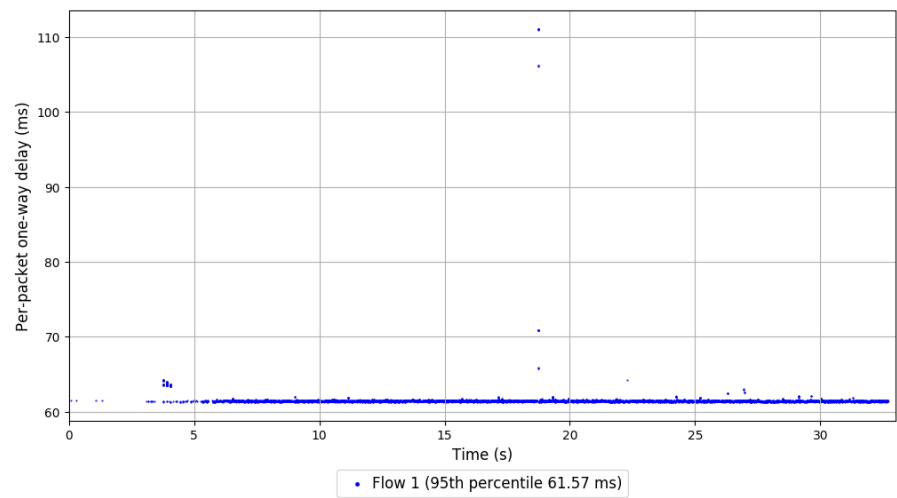
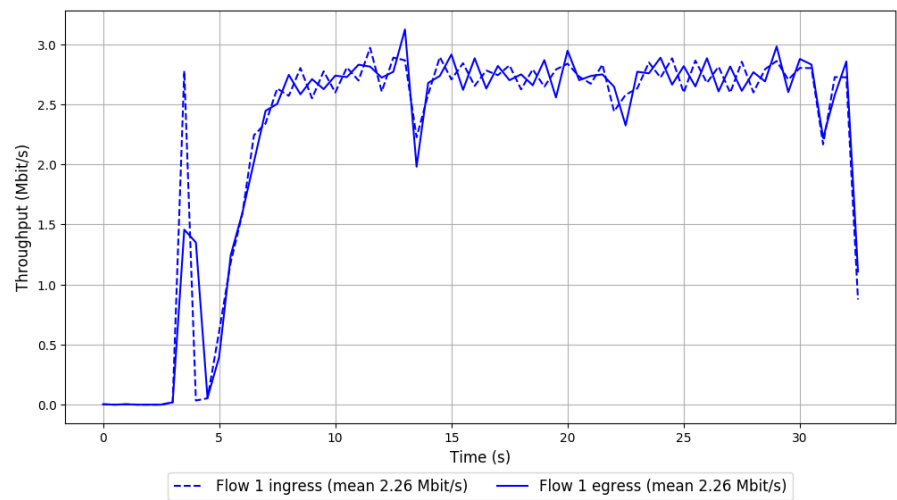
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 61.573 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-10-11 06:07:04

End at: 2017-10-11 06:07:34

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 64.164 ms

Loss rate: 0.01%

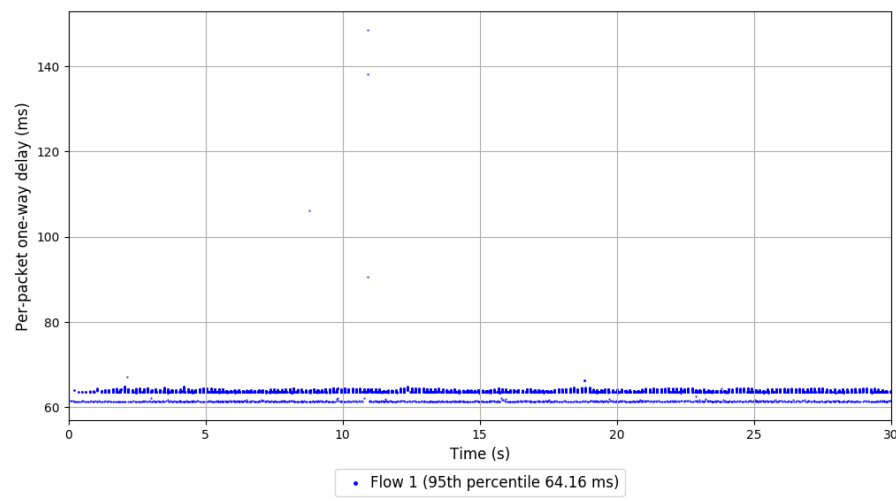
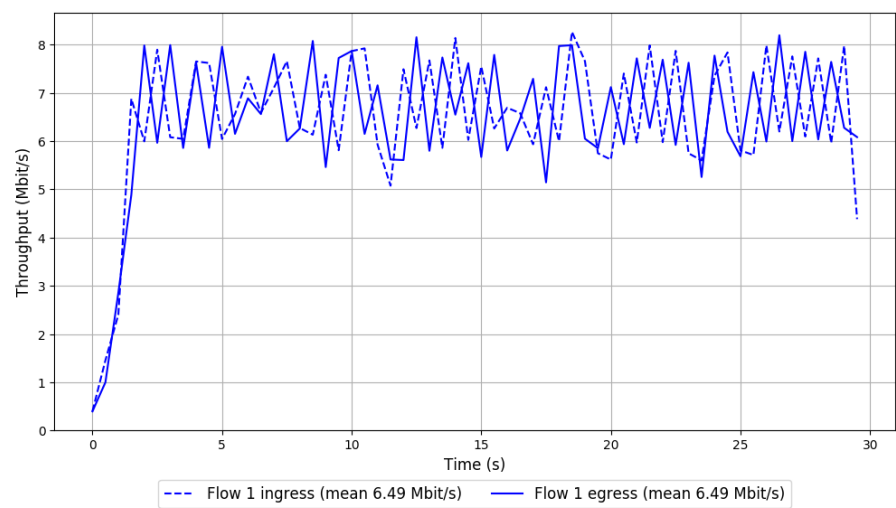
-- Flow 1:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 64.164 ms

Loss rate: 0.01%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-10-11 06:18:05

End at: 2017-10-11 06:18:35

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 64.261 ms

Loss rate: 0.01%

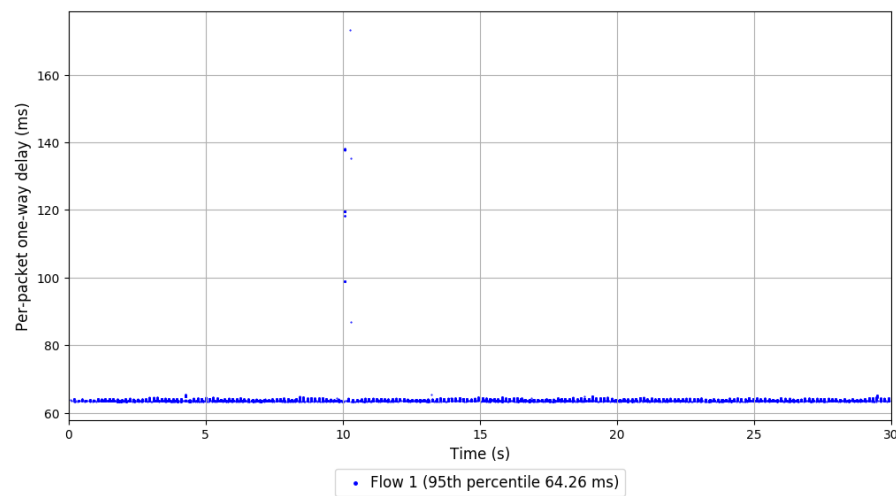
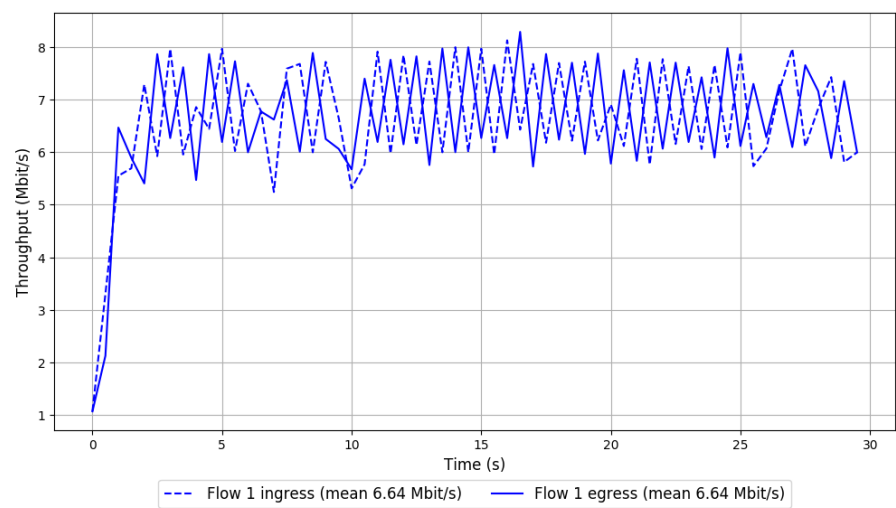
-- Flow 1:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 64.261 ms

Loss rate: 0.01%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-10-11 06:29:01

End at: 2017-10-11 06:29:31

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 64.184 ms

Loss rate: 0.00%

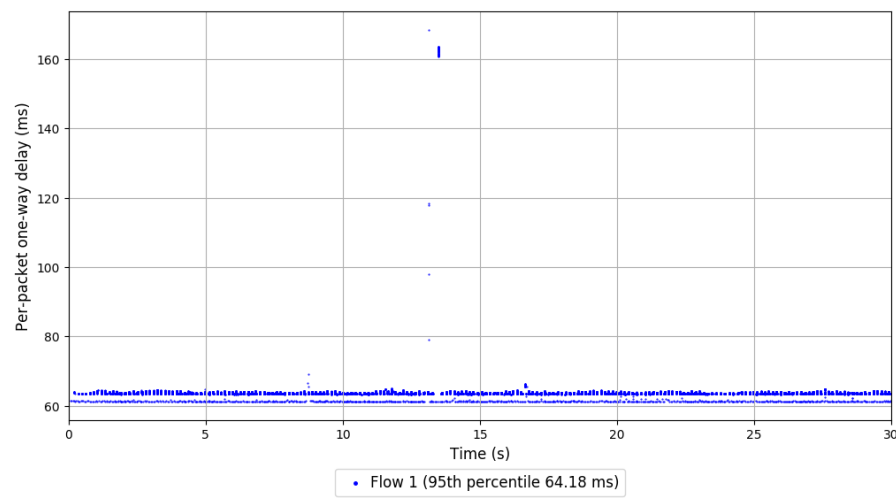
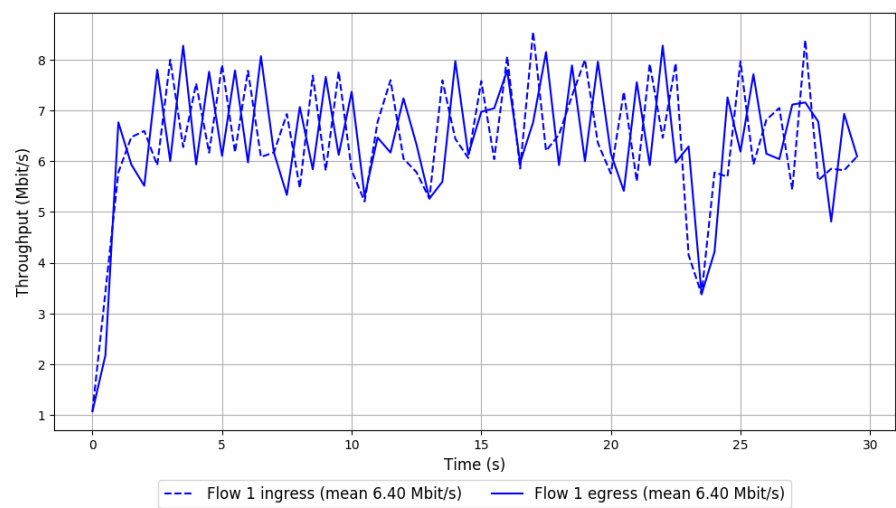
-- Flow 1:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 64.184 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-10-11 06:39:48

End at: 2017-10-11 06:40:18

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.163 ms

Loss rate: 0.10%

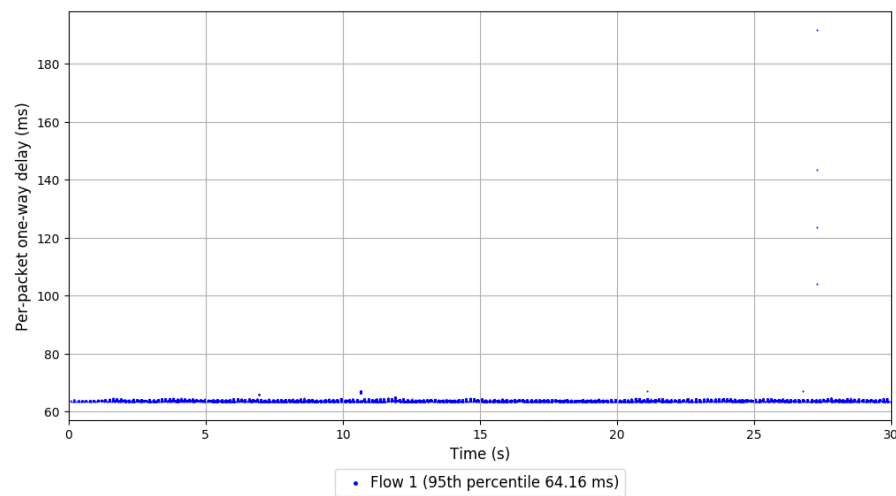
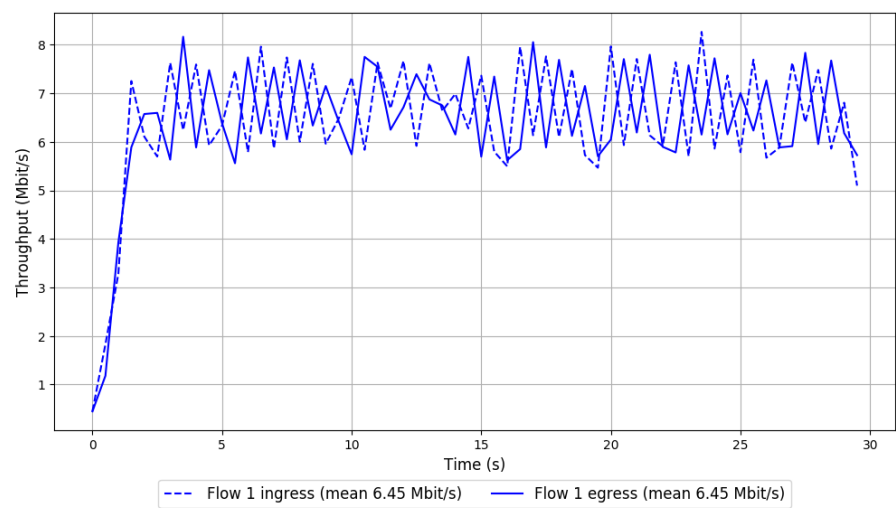
-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.163 ms

Loss rate: 0.10%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-10-11 06:50:36

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

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 64.262 ms

Loss rate: 0.01%

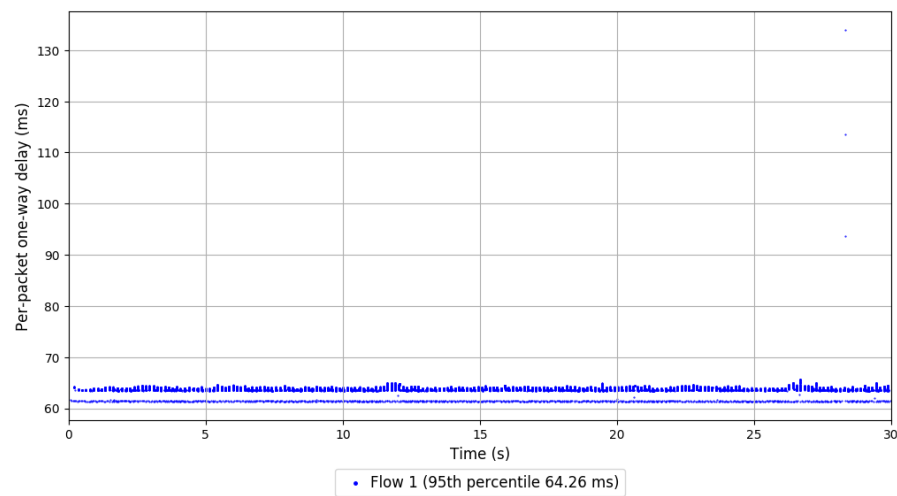
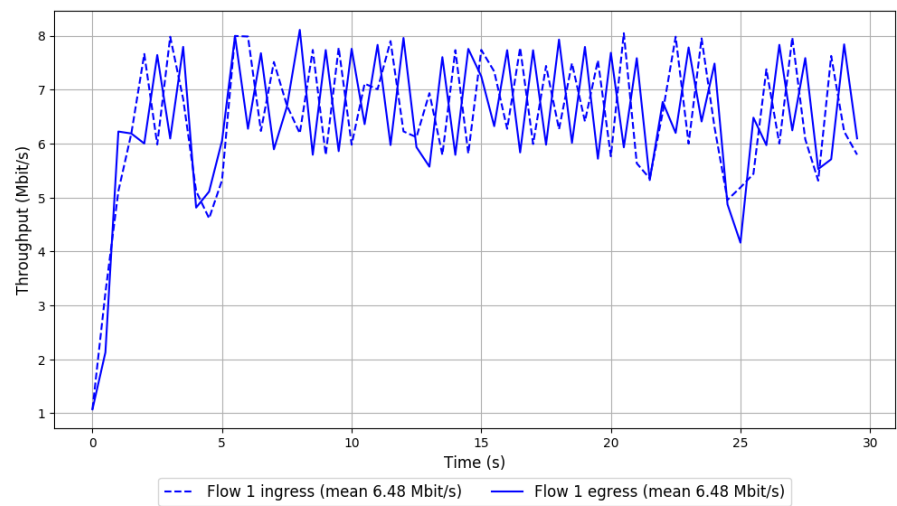
-- Flow 1:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 64.262 ms

Loss rate: 0.01%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-10-11 07:00:59

End at: 2017-10-11 07:01:29

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.222 ms

Loss rate: 0.23%

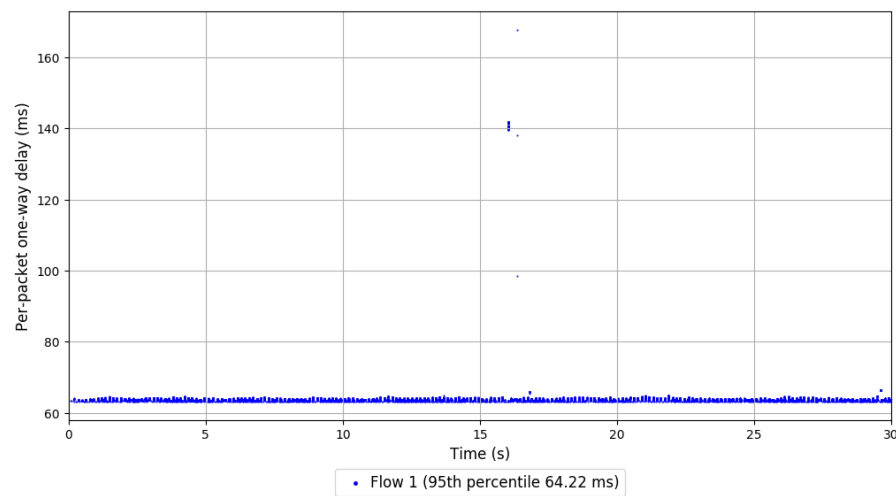
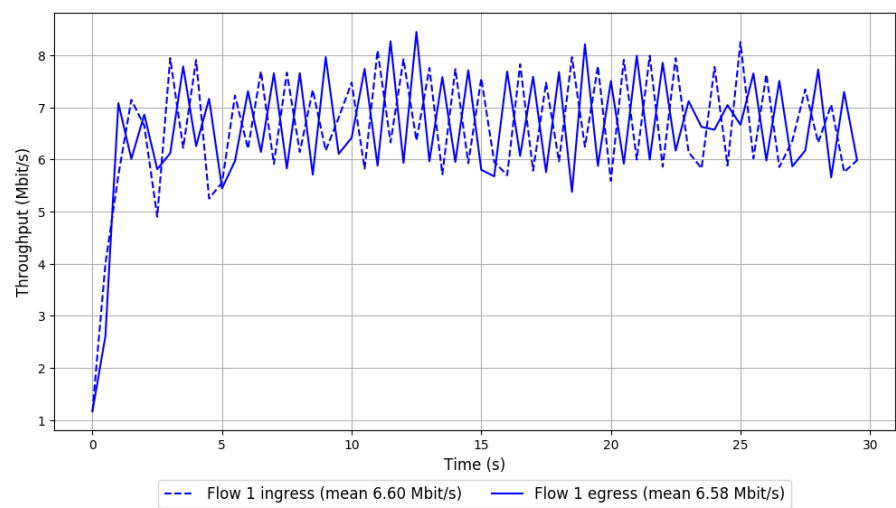
-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.222 ms

Loss rate: 0.23%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-10-11 07:11:49

End at: 2017-10-11 07:12:19

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 64.161 ms

Loss rate: 0.01%

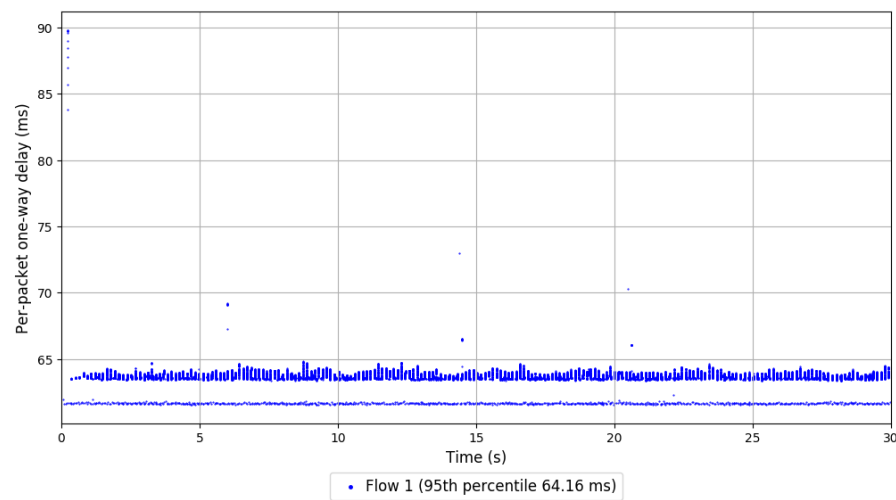
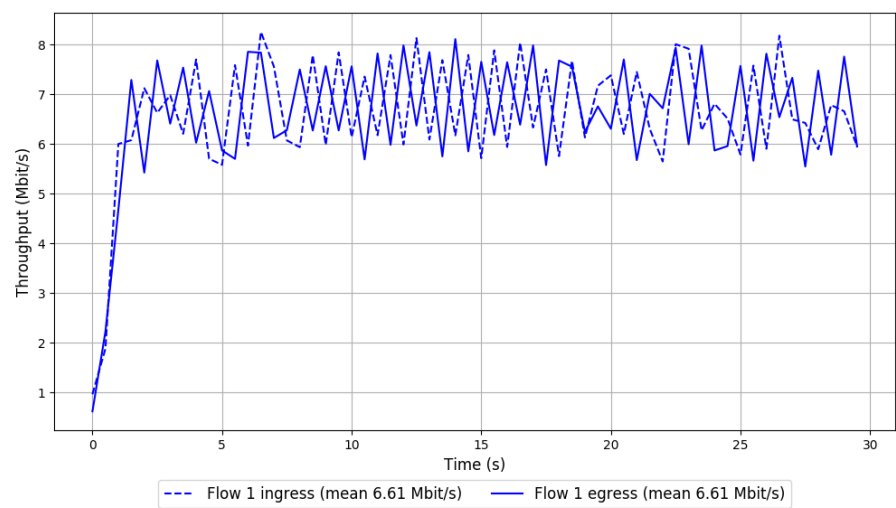
-- Flow 1:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 64.161 ms

Loss rate: 0.01%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-10-11 07:22:33

End at: 2017-10-11 07:23:03

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 64.409 ms

Loss rate: 0.02%

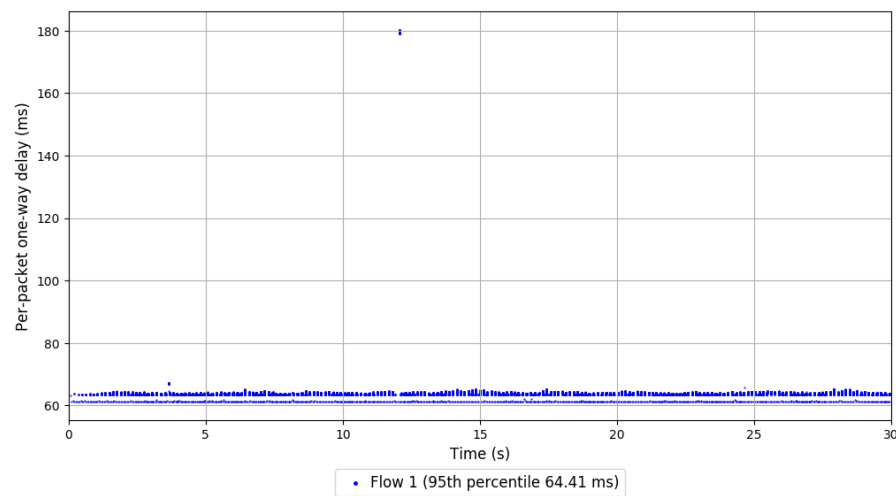
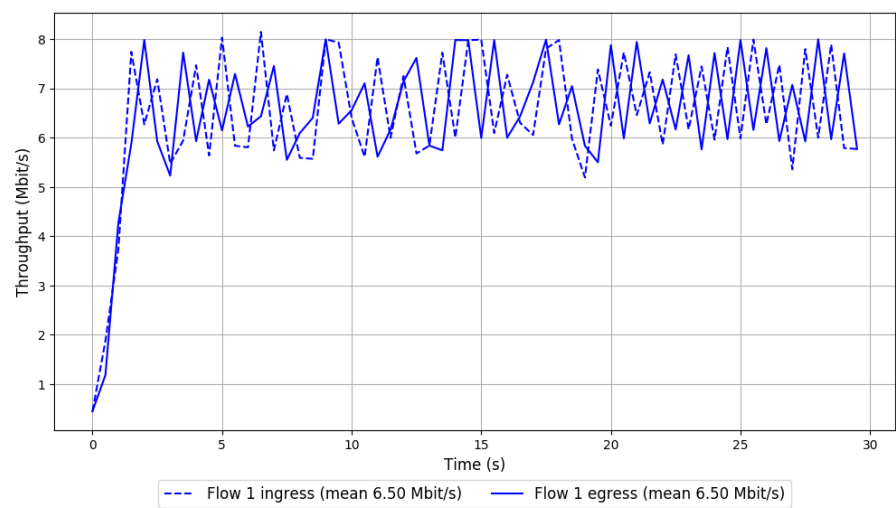
-- Flow 1:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 64.409 ms

Loss rate: 0.02%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-10-11 07:33:19

End at: 2017-10-11 07:33:49

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 64.255 ms

Loss rate: 0.15%

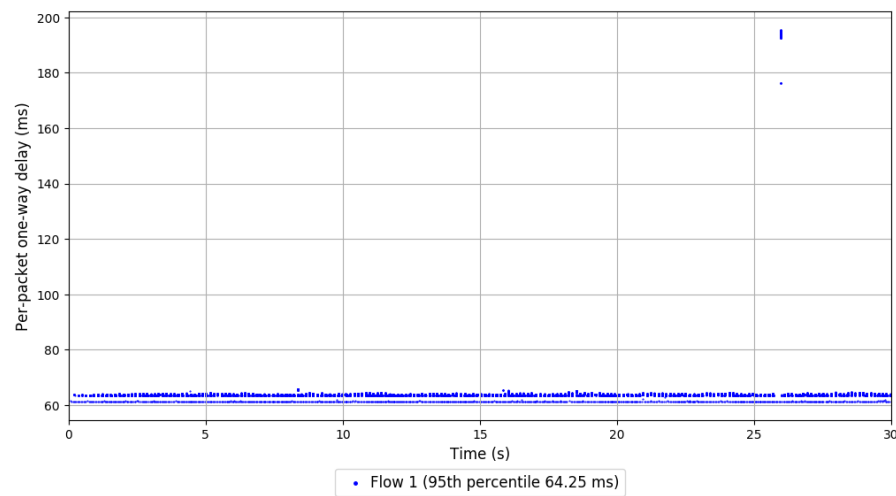
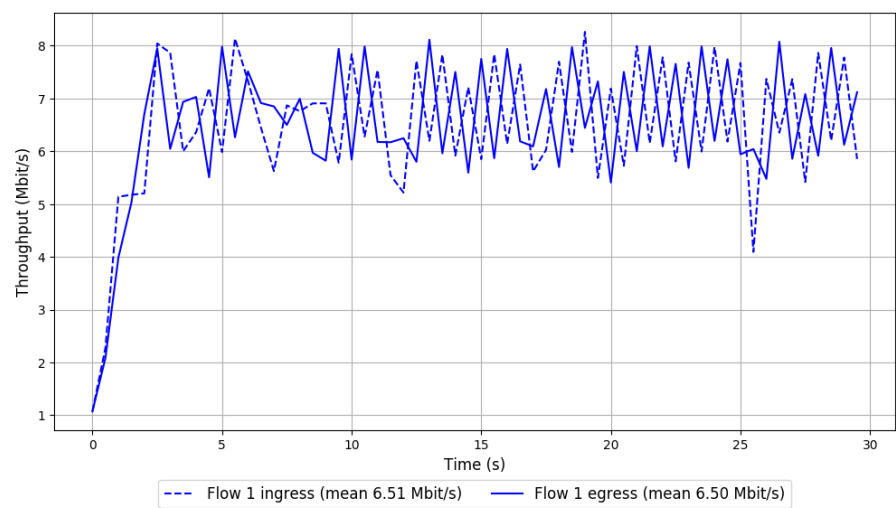
-- Flow 1:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 64.255 ms

Loss rate: 0.15%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-10-11 07:44:05

End at: 2017-10-11 07:44:35

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.298 ms

Loss rate: 0.03%

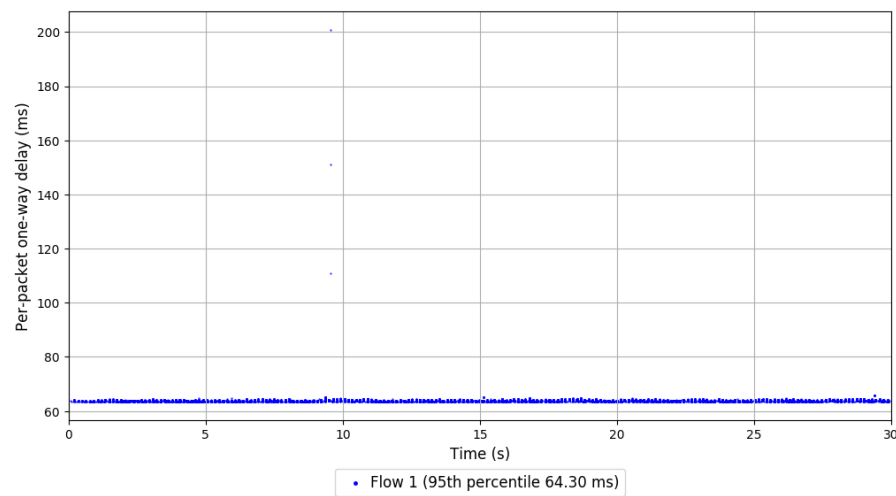
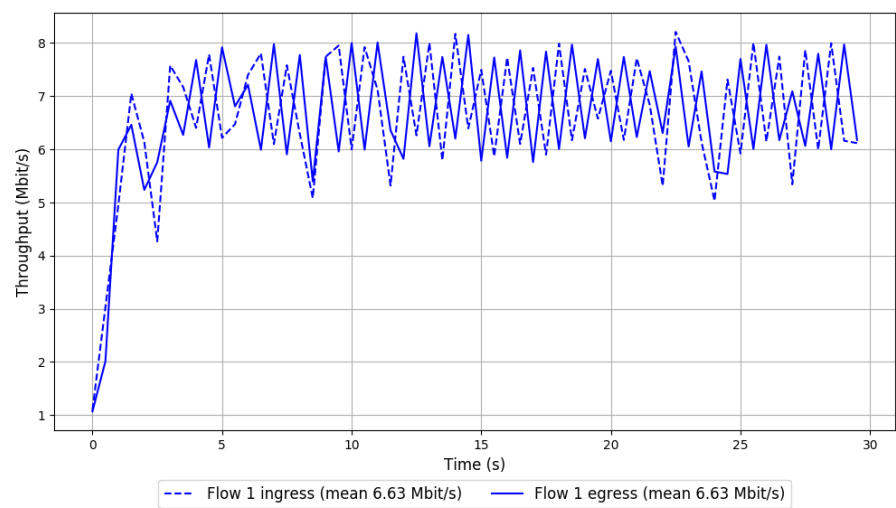
-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.298 ms

Loss rate: 0.03%

Run 10: Report of Sprout — Data Link

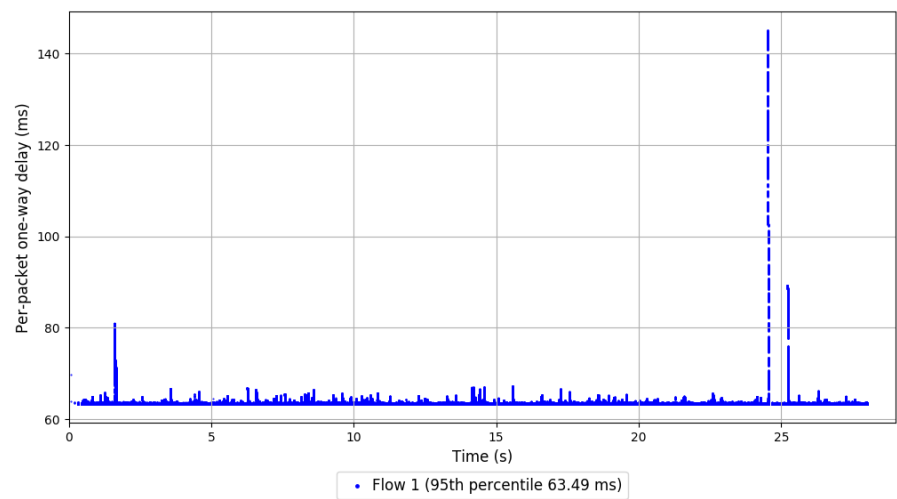
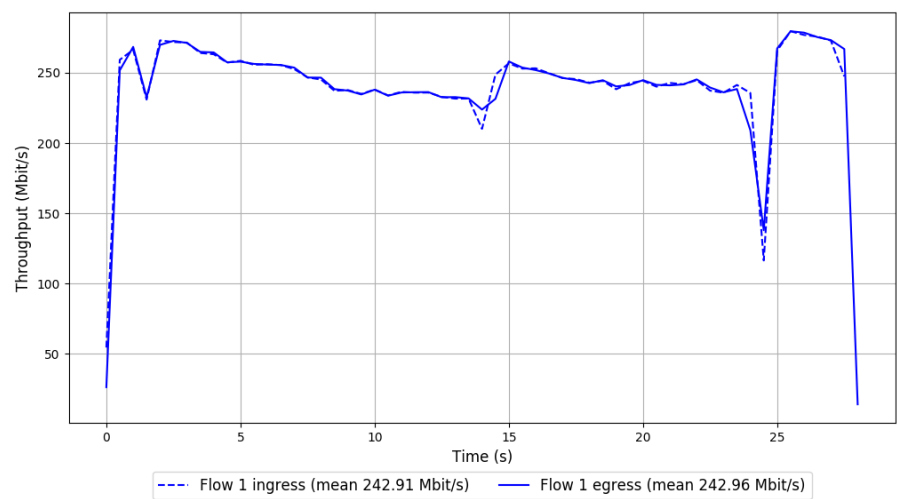


```
Run 1: Statistics of TaoVA-100x

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

# Below is generated by plot.py at 2017-10-11 09:07:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 242.96 Mbit/s
95th percentile per-packet one-way delay: 63.493 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 242.96 Mbit/s
95th percentile per-packet one-way delay: 63.493 ms
Loss rate: 0.00%
```

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

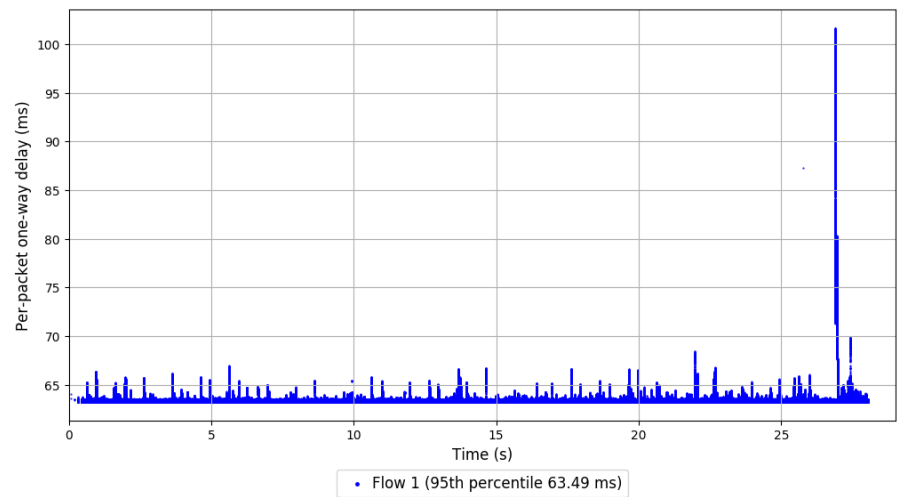
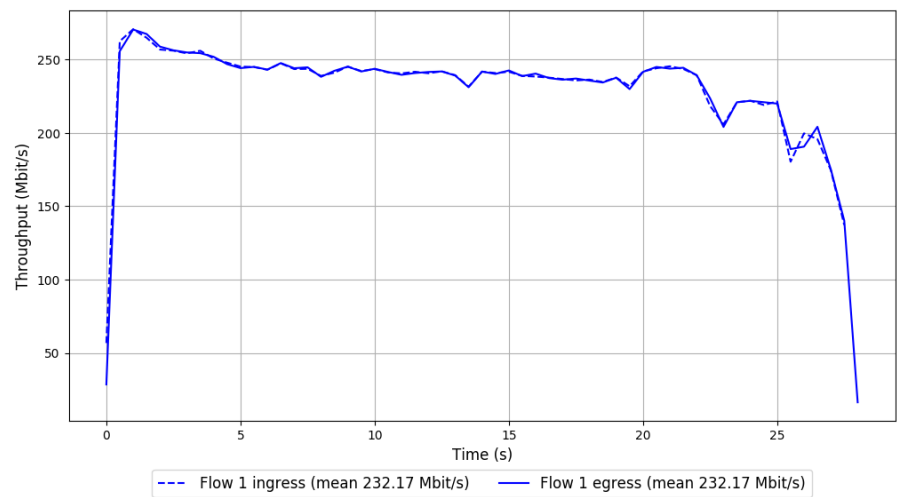


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-10-11 06:21:43
End at: 2017-10-11 06:22:13

# Below is generated by plot.py at 2017-10-11 09:07:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.17 Mbit/s
95th percentile per-packet one-way delay: 63.489 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 232.17 Mbit/s
95th percentile per-packet one-way delay: 63.489 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-10-11 06:32:39

End at: 2017-10-11 06:33:09

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 148.76 Mbit/s

95th percentile per-packet one-way delay: 63.424 ms

Loss rate: 0.00%

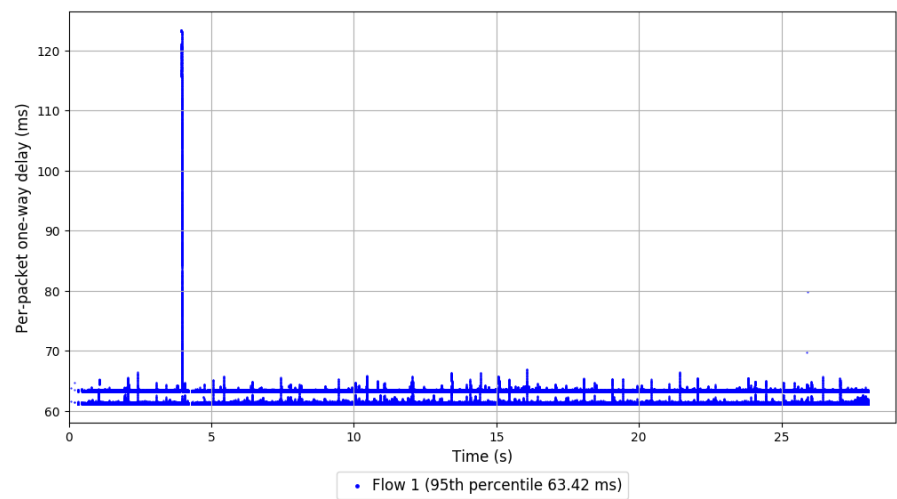
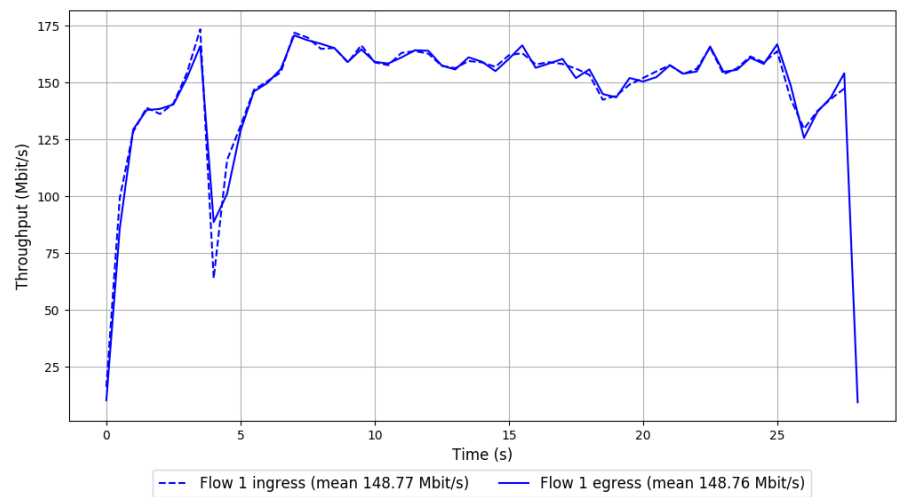
-- Flow 1:

Average throughput: 148.76 Mbit/s

95th percentile per-packet one-way delay: 63.424 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-10-11 06:43:27

End at: 2017-10-11 06:43:57

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 145.24 Mbit/s

95th percentile per-packet one-way delay: 63.457 ms

Loss rate: 0.00%

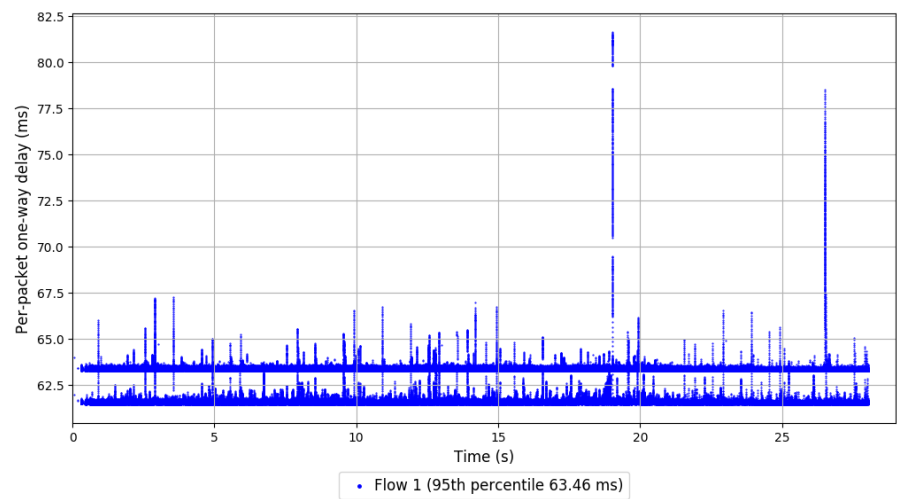
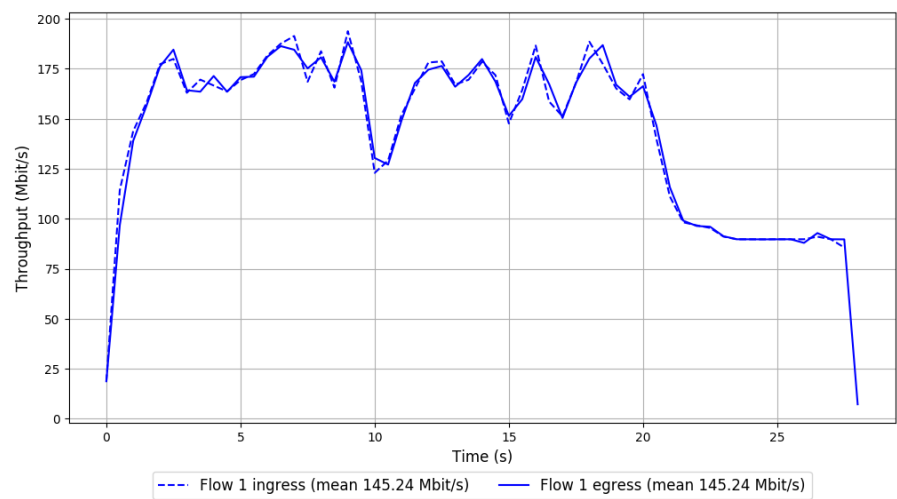
-- Flow 1:

Average throughput: 145.24 Mbit/s

95th percentile per-packet one-way delay: 63.457 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-10-11 06:53:45

End at: 2017-10-11 06:54:15

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 238.07 Mbit/s

95th percentile per-packet one-way delay: 63.602 ms

Loss rate: 0.00%

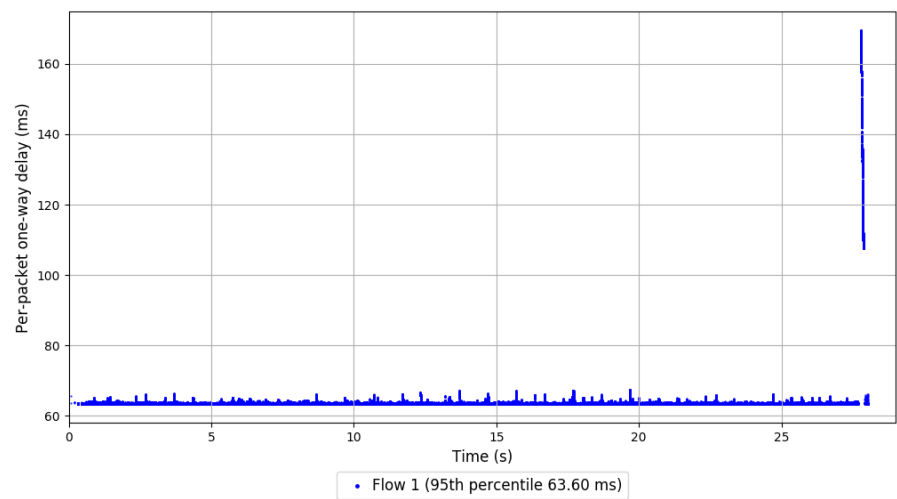
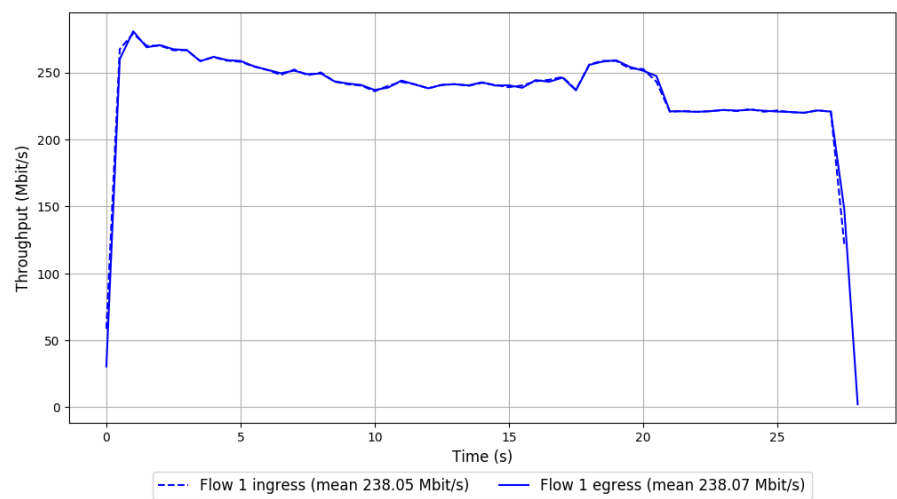
-- Flow 1:

Average throughput: 238.07 Mbit/s

95th percentile per-packet one-way delay: 63.602 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-10-11 07:04:42

End at: 2017-10-11 07:05:12

# Below is generated by plot.py at 2017-10-11 09:07:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 156.12 Mbit/s

95th percentile per-packet one-way delay: 63.480 ms

Loss rate: 0.00%

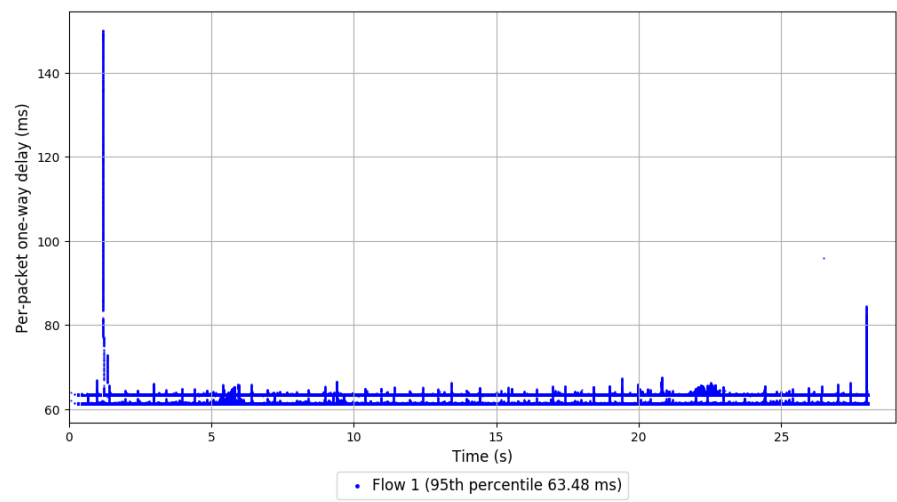
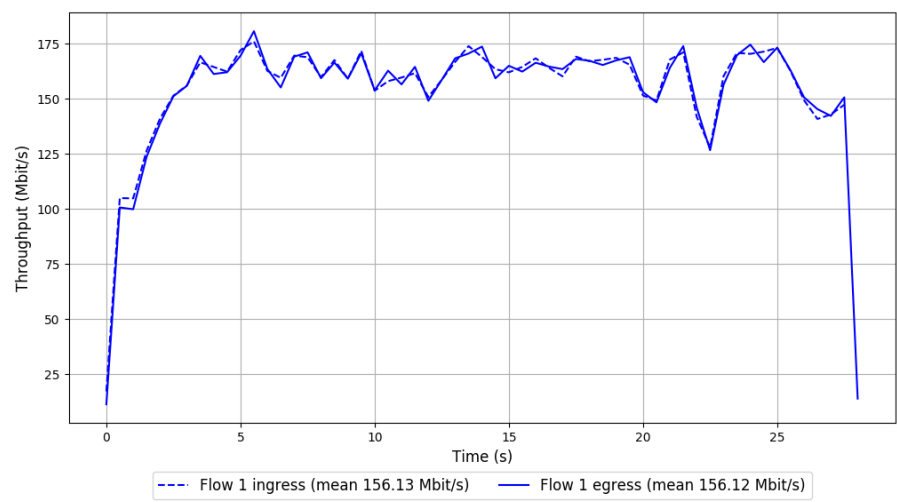
-- Flow 1:

Average throughput: 156.12 Mbit/s

95th percentile per-packet one-way delay: 63.480 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-10-11 07:15:29

End at: 2017-10-11 07:15:59

# Below is generated by plot.py at 2017-10-11 09:12:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 246.17 Mbit/s

95th percentile per-packet one-way delay: 63.633 ms

Loss rate: 0.00%

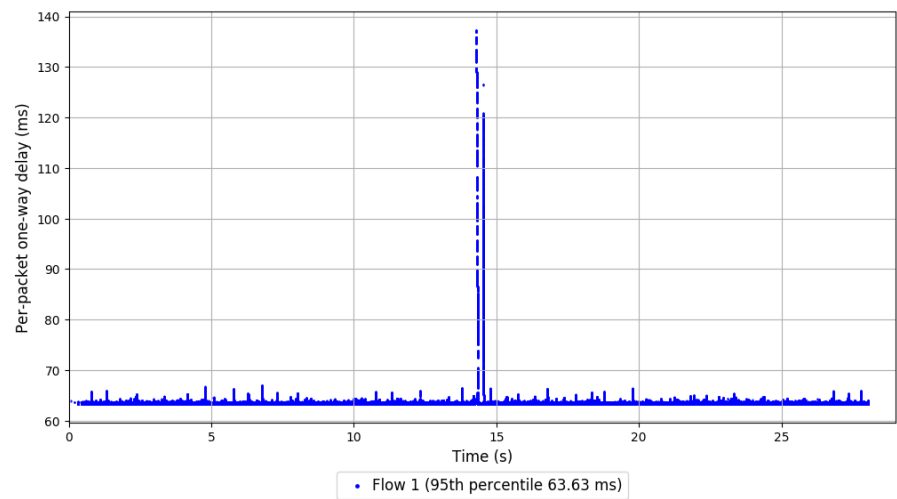
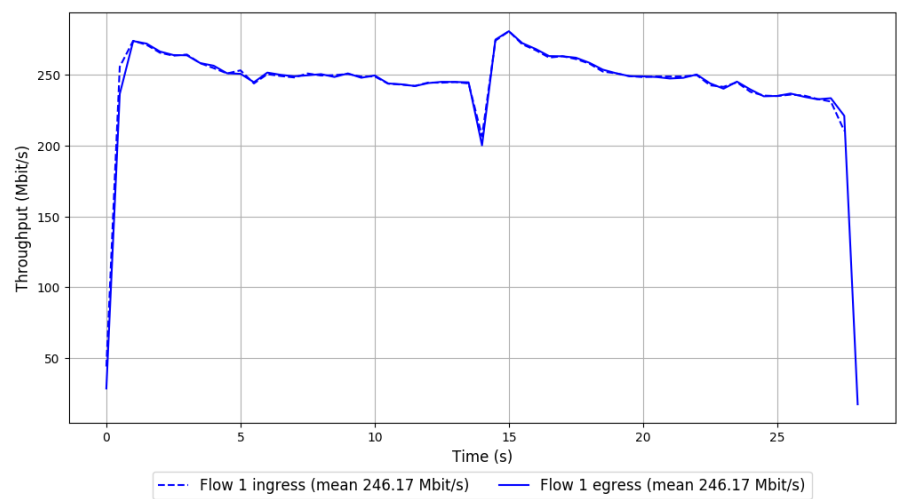
-- Flow 1:

Average throughput: 246.17 Mbit/s

95th percentile per-packet one-way delay: 63.633 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-10-11 07:26:14

End at: 2017-10-11 07:26:44

# Below is generated by plot.py at 2017-10-11 09:12:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 240.86 Mbit/s

95th percentile per-packet one-way delay: 63.672 ms

Loss rate: 0.00%

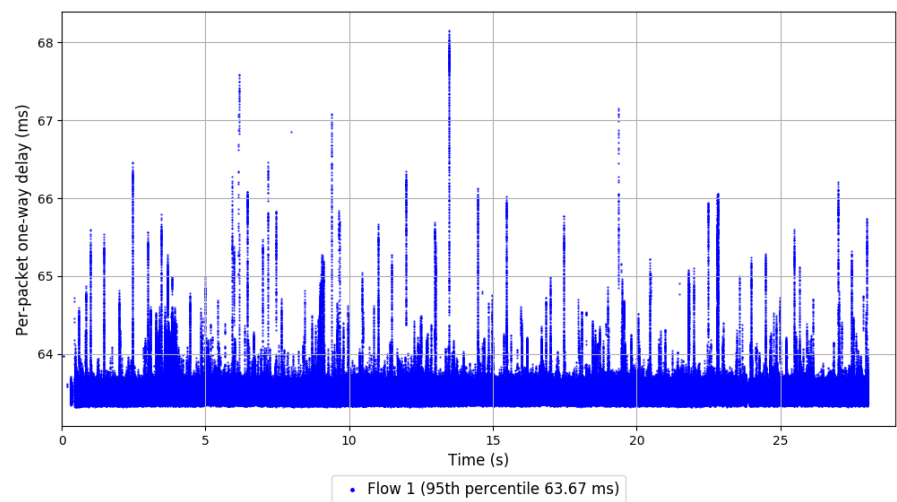
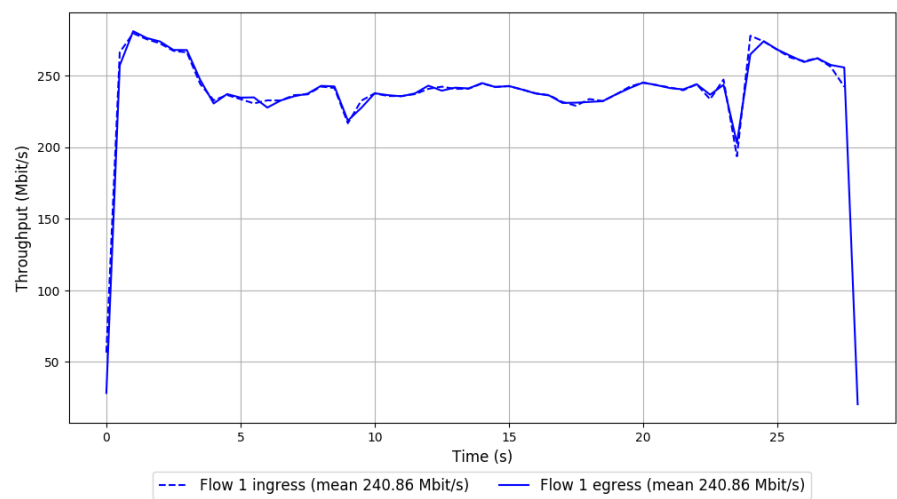
-- Flow 1:

Average throughput: 240.86 Mbit/s

95th percentile per-packet one-way delay: 63.672 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-10-11 07:36:57

End at: 2017-10-11 07:37:27

# Below is generated by plot.py at 2017-10-11 09:12:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 234.15 Mbit/s

95th percentile per-packet one-way delay: 63.552 ms

Loss rate: 0.00%

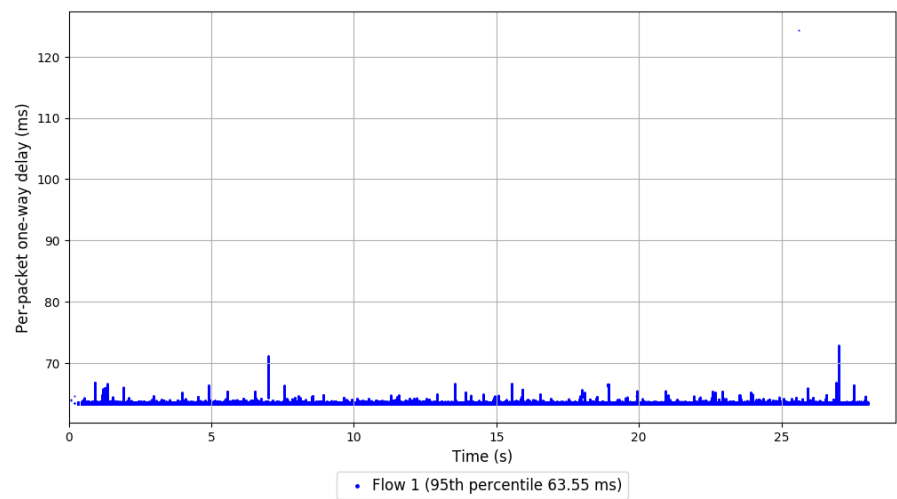
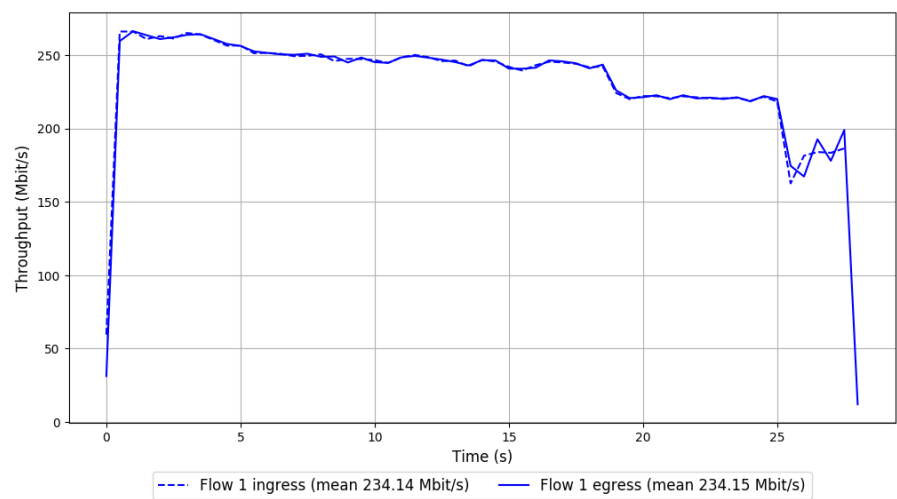
-- Flow 1:

Average throughput: 234.15 Mbit/s

95th percentile per-packet one-way delay: 63.552 ms

Loss rate: 0.00%

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

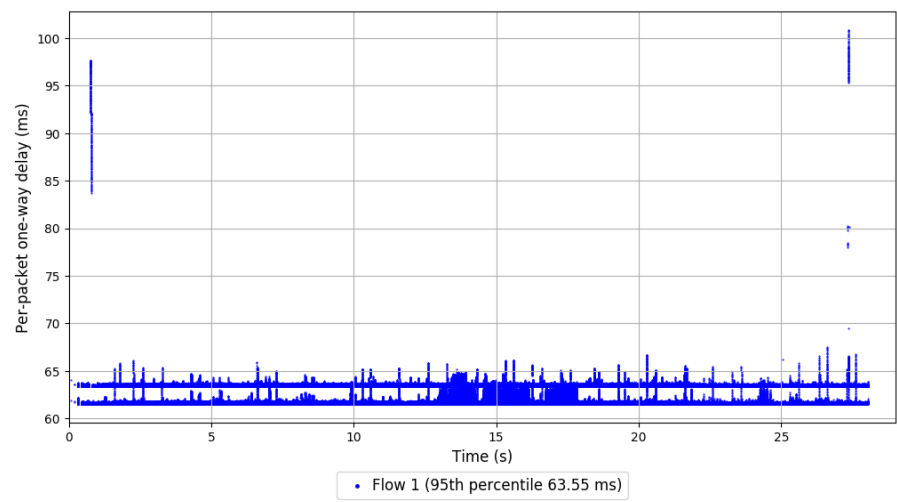
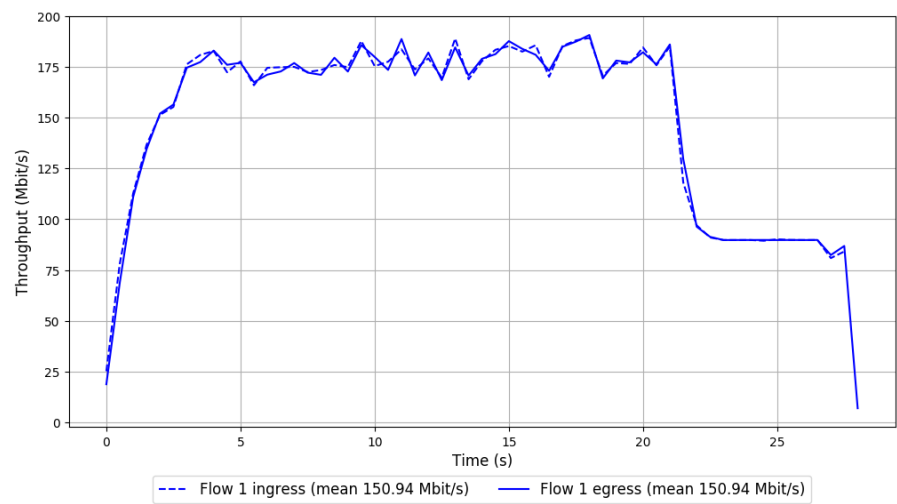


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-10-11 07:47:44
End at: 2017-10-11 07:48:14

# Below is generated by plot.py at 2017-10-11 09:12:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 150.94 Mbit/s
95th percentile per-packet one-way delay: 63.547 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 150.94 Mbit/s
95th percentile per-packet one-way delay: 63.547 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-10-11 06:10:05

End at: 2017-10-11 06:10:35

# Below is generated by plot.py at 2017-10-11 09:12:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 107.66 Mbit/s

95th percentile per-packet one-way delay: 64.311 ms

Loss rate: 0.00%

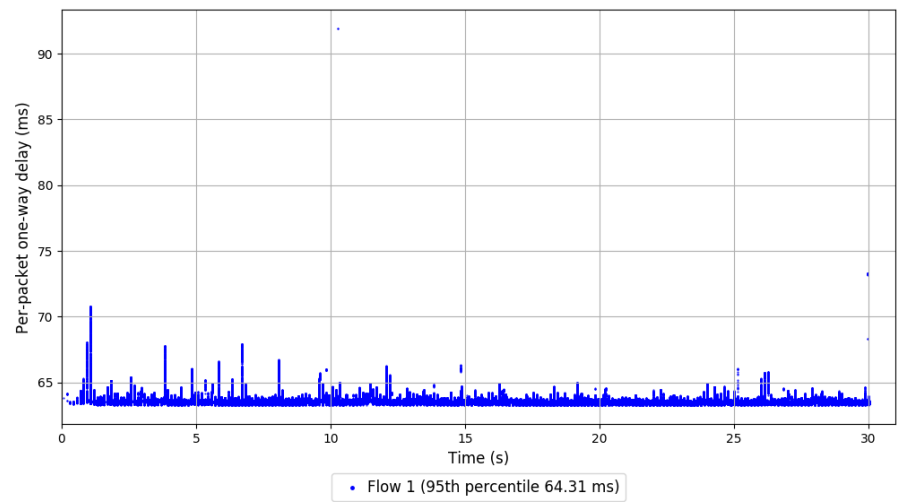
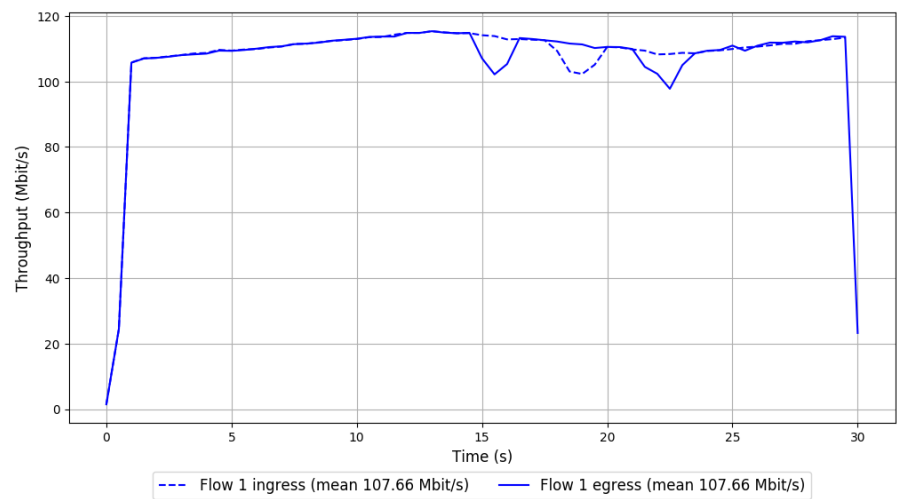
-- Flow 1:

Average throughput: 107.66 Mbit/s

95th percentile per-packet one-way delay: 64.311 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-10-11 06:21:04

End at: 2017-10-11 06:21:34

# Below is generated by plot.py at 2017-10-11 09:12:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.59 Mbit/s

95th percentile per-packet one-way delay: 64.138 ms

Loss rate: 0.00%

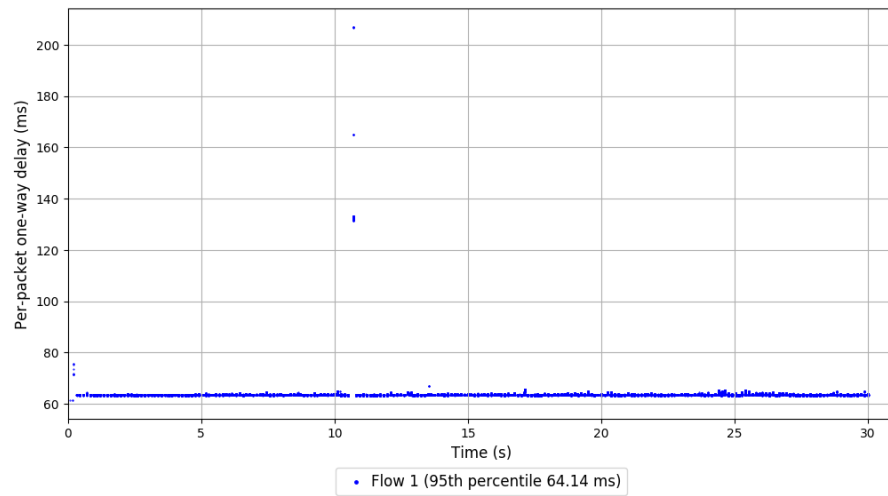
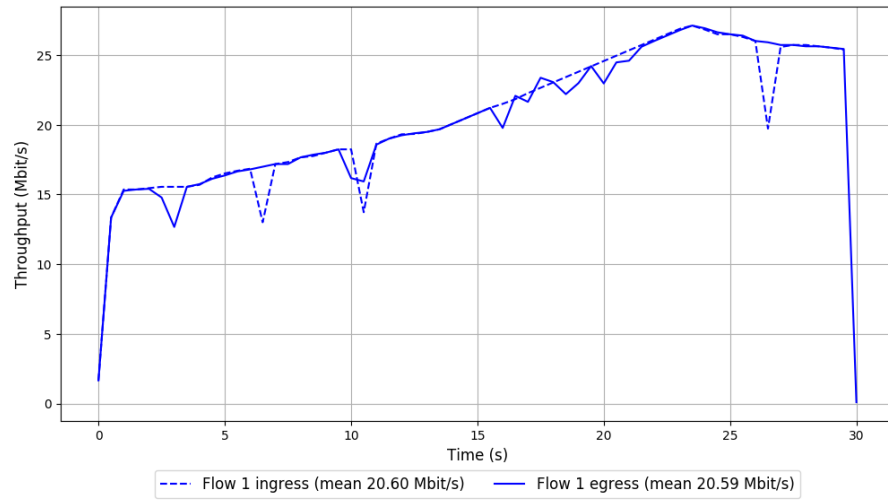
-- Flow 1:

Average throughput: 20.59 Mbit/s

95th percentile per-packet one-way delay: 64.138 ms

Loss rate: 0.00%

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



Run 3: Statistics of TCP Vegas

Start at: 2017-10-11 06:32:00

End at: 2017-10-11 06:32:30

# Below is generated by plot.py at 2017-10-11 09:12:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 64.019 ms

Loss rate: 0.00%

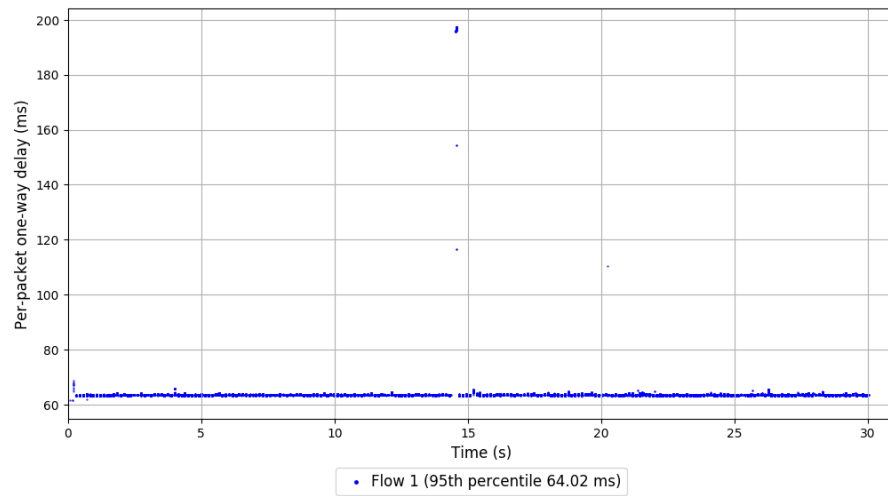
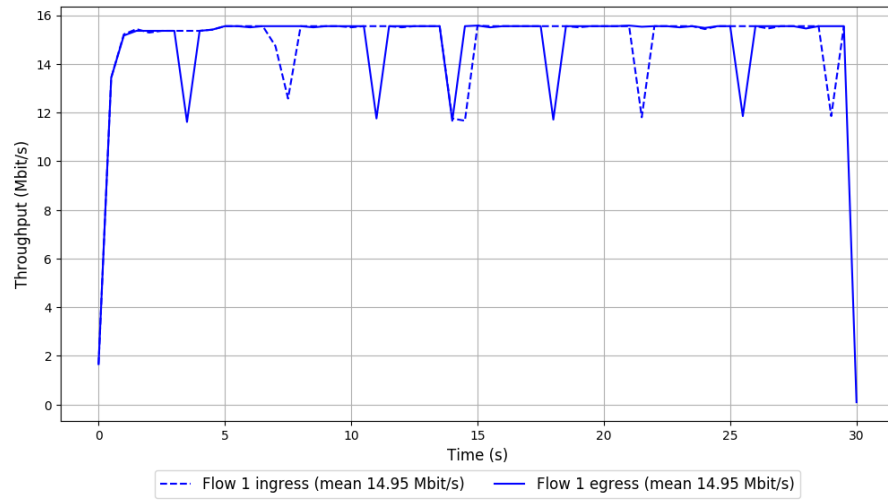
-- Flow 1:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 64.019 ms

Loss rate: 0.00%

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



Run 4: Statistics of TCP Vegas

Start at: 2017-10-11 06:42:47

End at: 2017-10-11 06:43:17

# Below is generated by plot.py at 2017-10-11 09:12:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 33.63 Mbit/s

95th percentile per-packet one-way delay: 64.291 ms

Loss rate: 0.00%

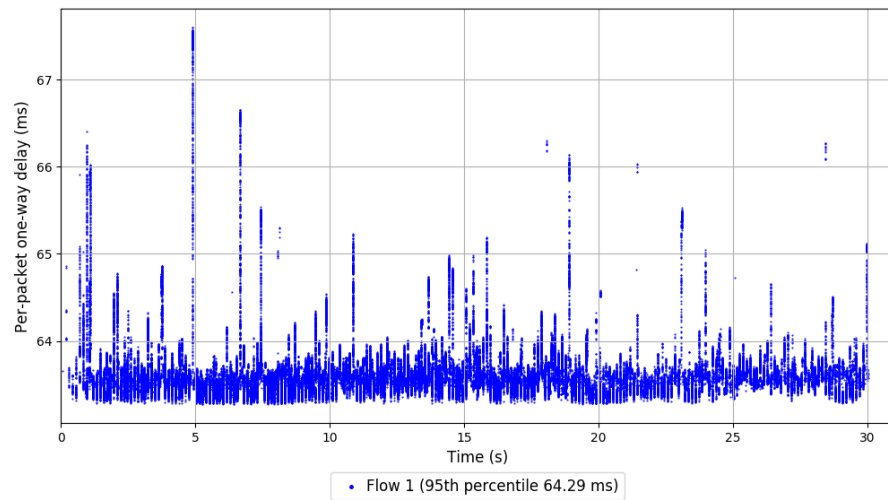
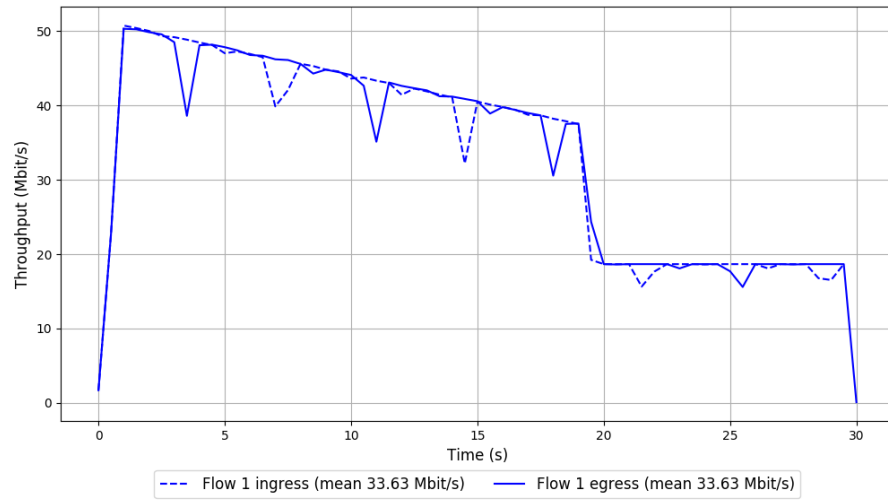
-- Flow 1:

Average throughput: 33.63 Mbit/s

95th percentile per-packet one-way delay: 64.291 ms

Loss rate: 0.00%

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

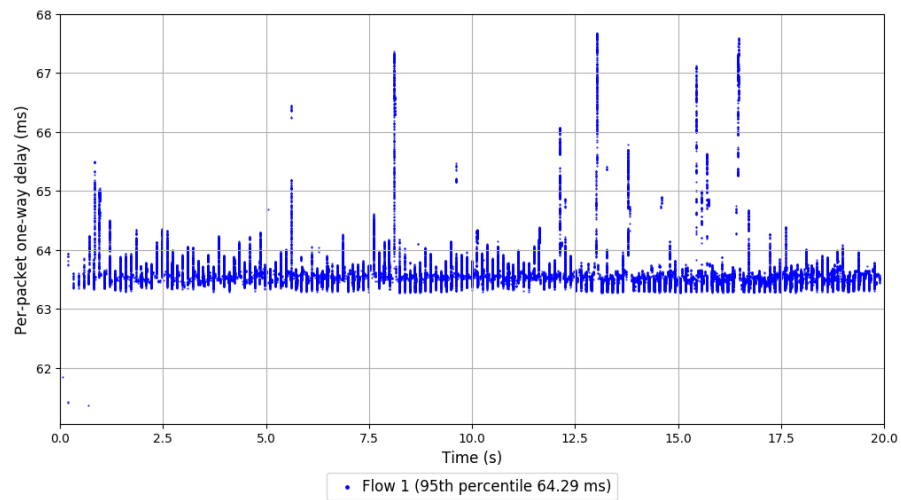
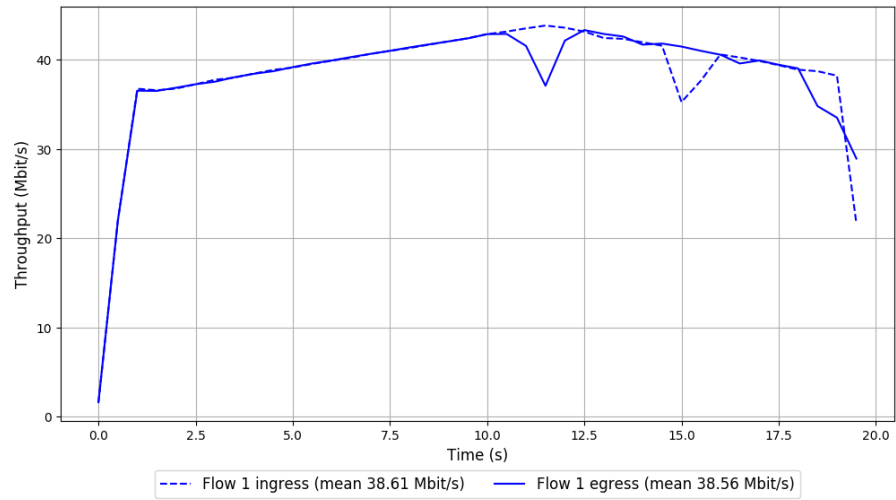


Run 5: Statistics of TCP Vegas

Start at: 2017-10-11 06:53:06

End at: 2017-10-11 06:53:36

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



Run 6: Statistics of TCP Vegas

Start at: 2017-10-11 07:03:59

End at: 2017-10-11 07:04:29

# Below is generated by plot.py at 2017-10-11 09:12:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.73 Mbit/s

95th percentile per-packet one-way delay: 64.162 ms

Loss rate: 0.00%

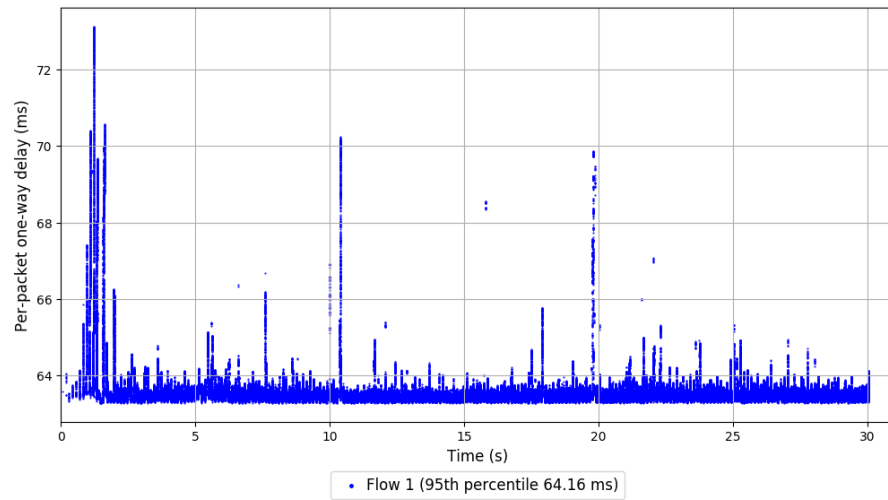
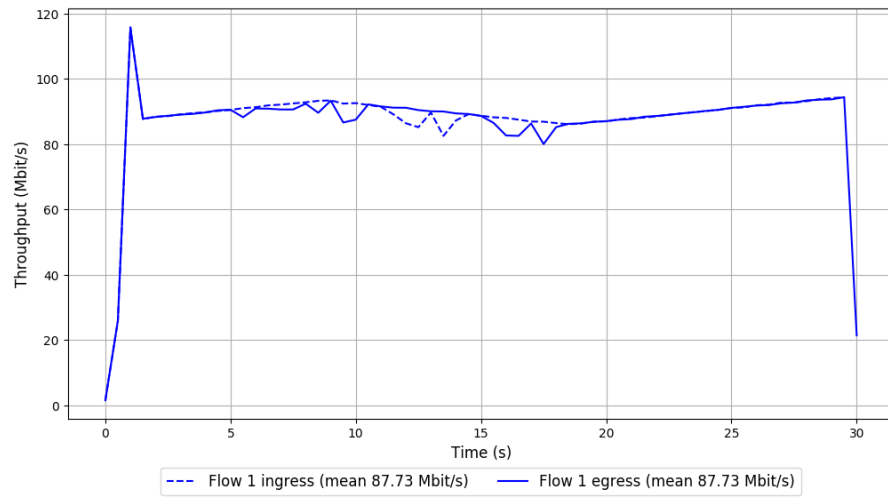
-- Flow 1:

Average throughput: 87.73 Mbit/s

95th percentile per-packet one-way delay: 64.162 ms

Loss rate: 0.00%

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



Run 7: Statistics of TCP Vegas

Start at: 2017-10-11 07:14:47

End at: 2017-10-11 07:15:17

# Below is generated by plot.py at 2017-10-11 09:12:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.17 Mbit/s

95th percentile per-packet one-way delay: 64.443 ms

Loss rate: 0.00%

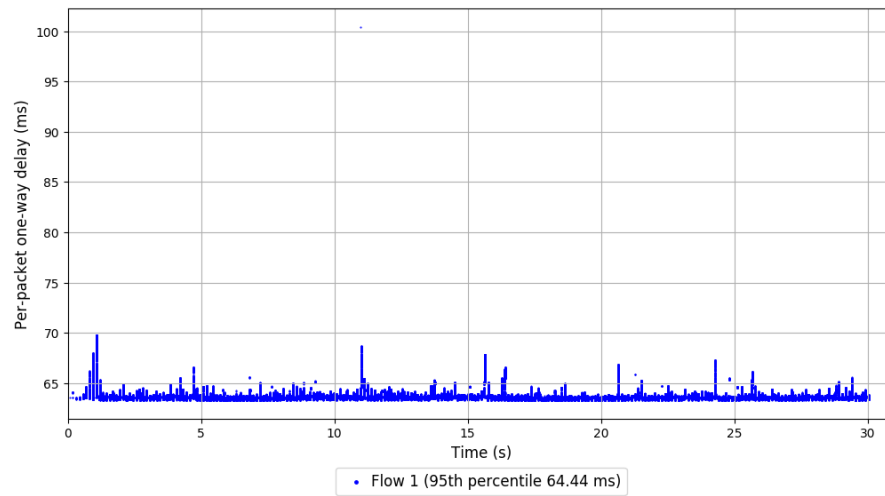
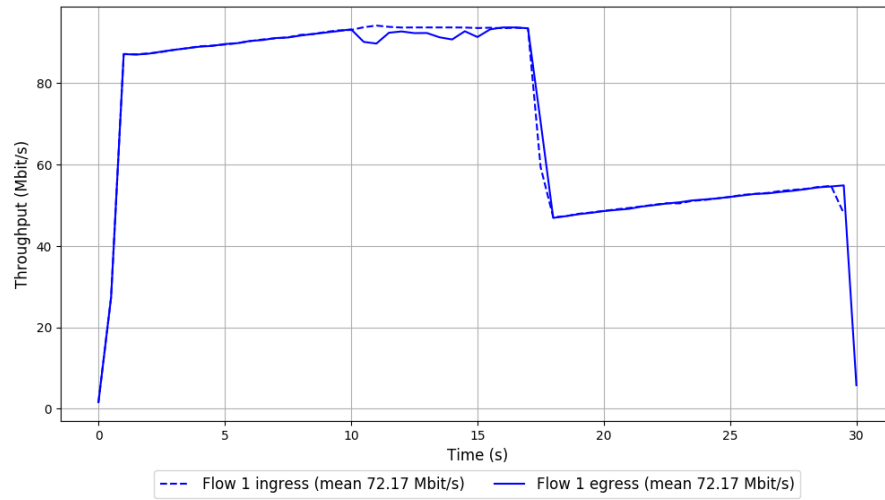
-- Flow 1:

Average throughput: 72.17 Mbit/s

95th percentile per-packet one-way delay: 64.443 ms

Loss rate: 0.00%

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



Run 8: Statistics of TCP Vegas

Start at: 2017-10-11 07:25:32

End at: 2017-10-11 07:26:02

# Below is generated by plot.py at 2017-10-11 09:12:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.92 Mbit/s

95th percentile per-packet one-way delay: 66.192 ms

Loss rate: 0.00%

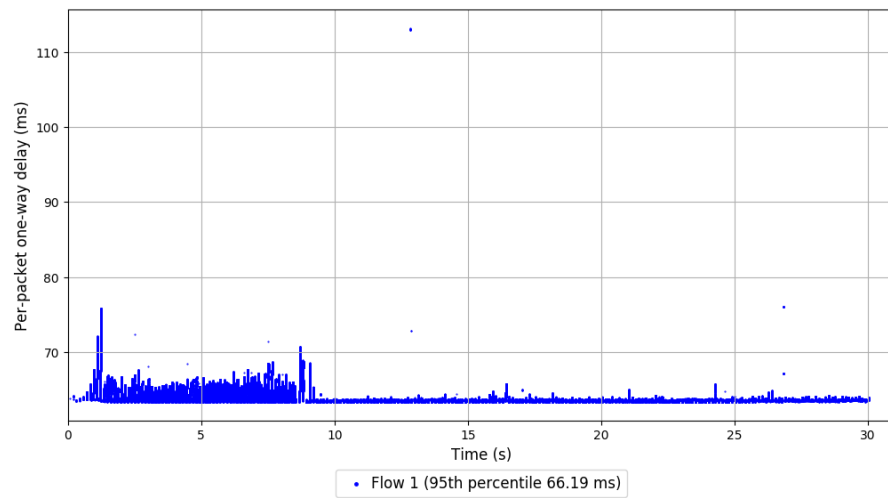
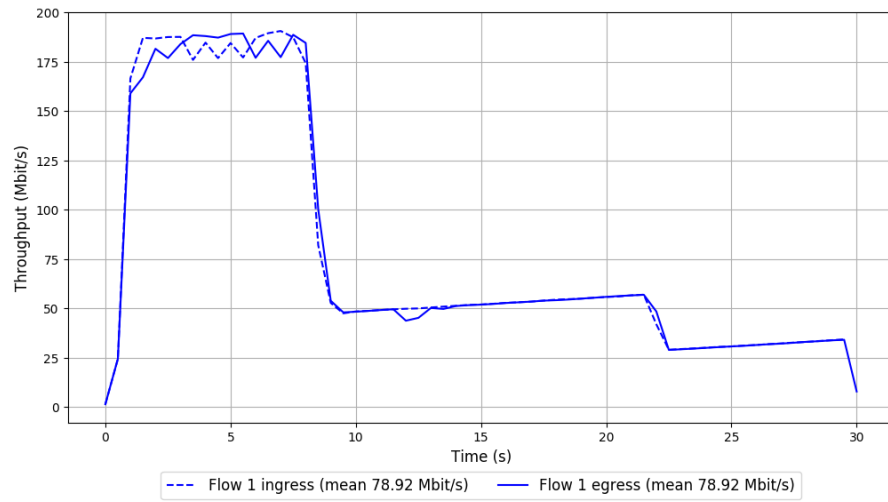
-- Flow 1:

Average throughput: 78.92 Mbit/s

95th percentile per-packet one-way delay: 66.192 ms

Loss rate: 0.00%

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



Run 9: Statistics of TCP Vegas

Start at: 2017-10-11 07:36:18

End at: 2017-10-11 07:36:48

# Below is generated by plot.py at 2017-10-11 09:12:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 14.51 Mbit/s

95th percentile per-packet one-way delay: 64.174 ms

Loss rate: 0.00%

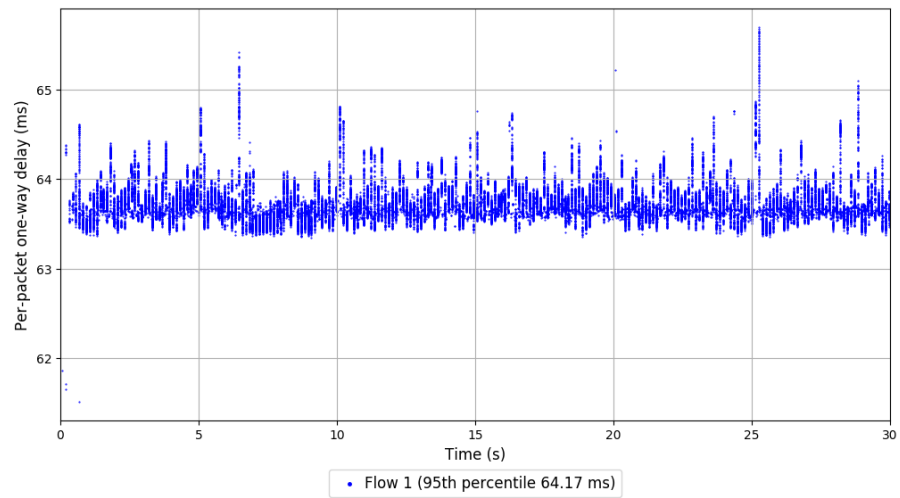
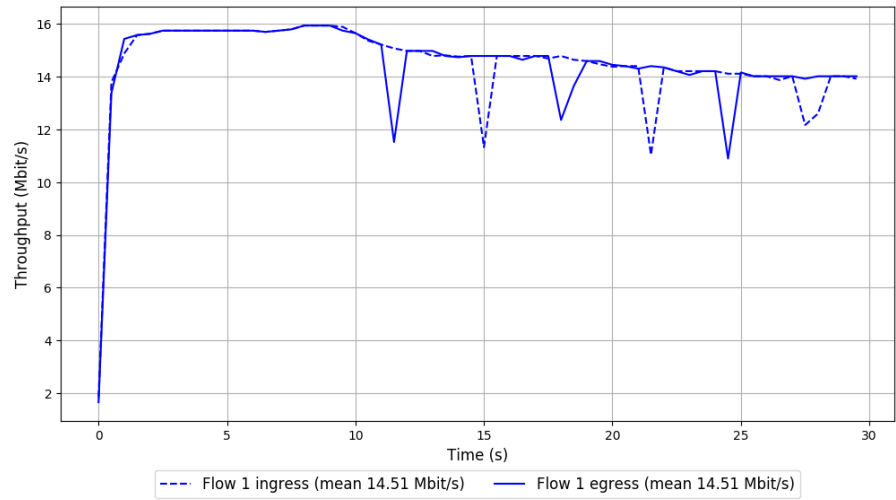
-- Flow 1:

Average throughput: 14.51 Mbit/s

95th percentile per-packet one-way delay: 64.174 ms

Loss rate: 0.00%

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



Run 10: Statistics of TCP Vegas

Start at: 2017-10-11 07:47:04

End at: 2017-10-11 07:47:34

# Below is generated by plot.py at 2017-10-11 09:12:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 41.80 Mbit/s

95th percentile per-packet one-way delay: 64.653 ms

Loss rate: 0.00%

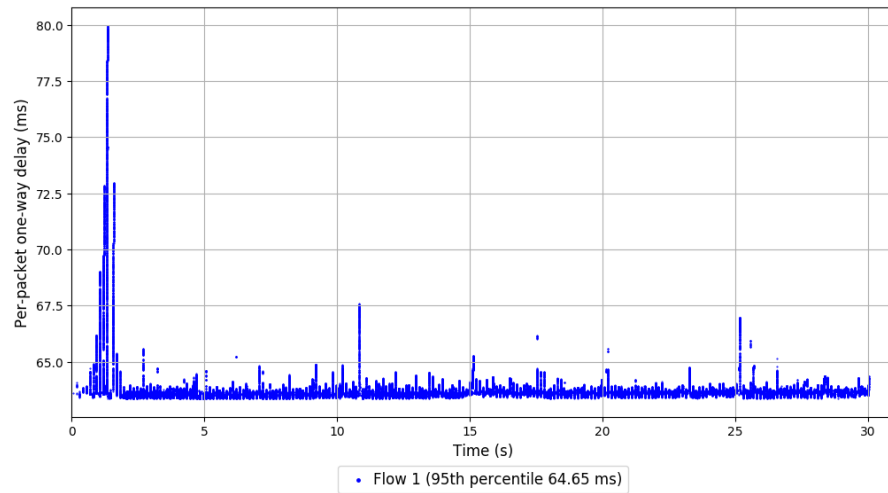
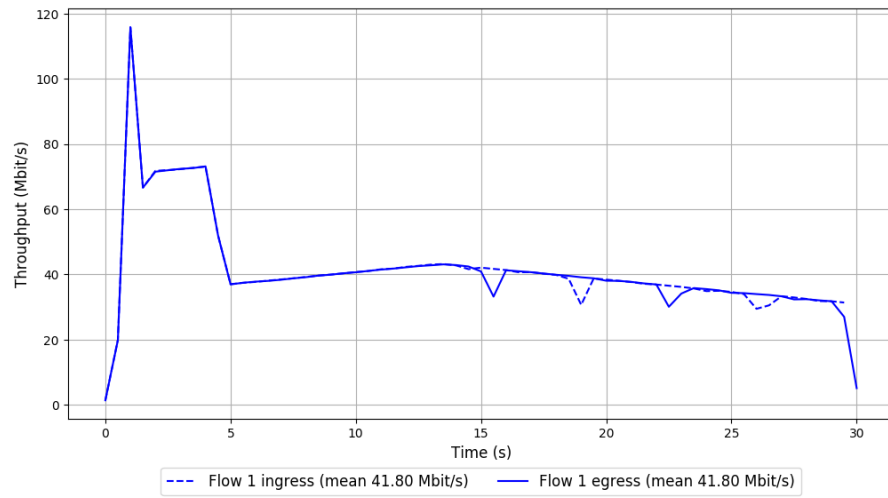
-- Flow 1:

Average throughput: 41.80 Mbit/s

95th percentile per-packet one-way delay: 64.653 ms

Loss rate: 0.00%

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



Run 1: Statistics of Verus

Start at: 2017-10-11 06:04:29

End at: 2017-10-11 06:04:59

# Below is generated by plot.py at 2017-10-11 09:14:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 248.67 Mbit/s

95th percentile per-packet one-way delay: 88.447 ms

Loss rate: 0.00%

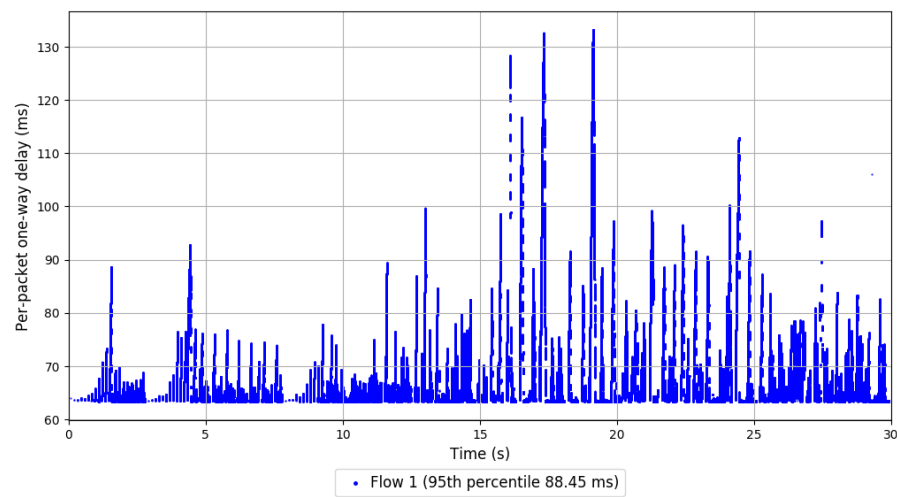
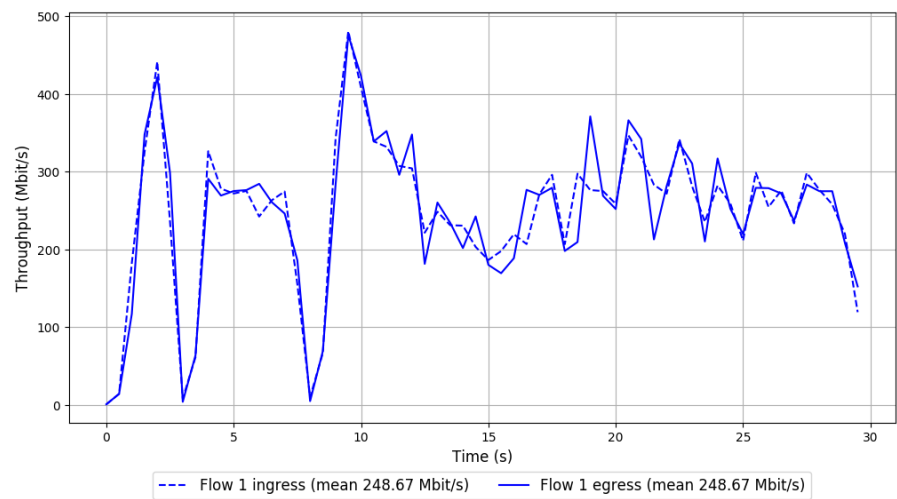
-- Flow 1:

Average throughput: 248.67 Mbit/s

95th percentile per-packet one-way delay: 88.447 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-10-11 06:15:29

End at: 2017-10-11 06:15:59

# Below is generated by plot.py at 2017-10-11 09:14:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 254.27 Mbit/s

95th percentile per-packet one-way delay: 81.086 ms

Loss rate: 0.00%

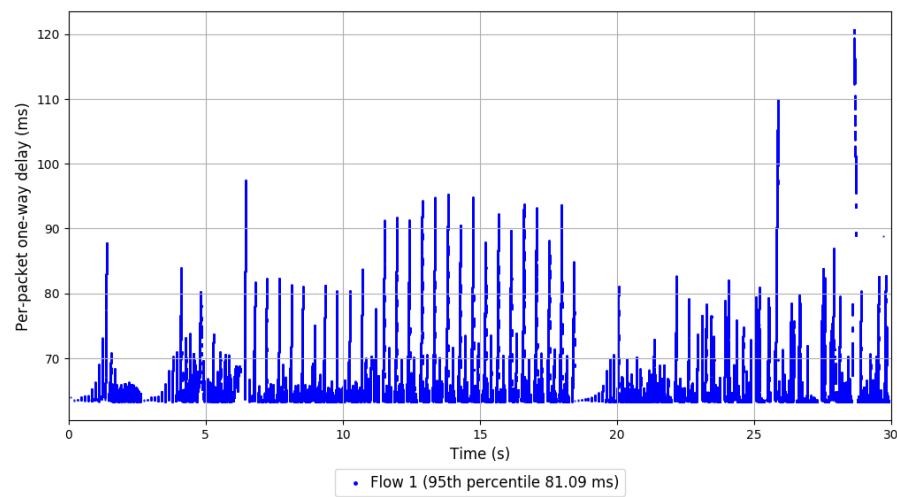
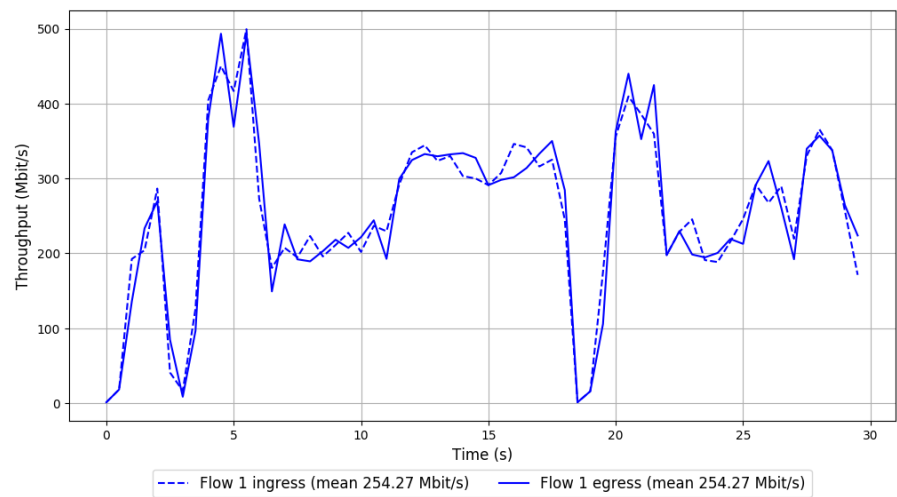
-- Flow 1:

Average throughput: 254.27 Mbit/s

95th percentile per-packet one-way delay: 81.086 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-10-11 06:26:24

End at: 2017-10-11 06:26:54

# Below is generated by plot.py at 2017-10-11 09:14:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 283.85 Mbit/s

95th percentile per-packet one-way delay: 214.248 ms

Loss rate: 1.09%

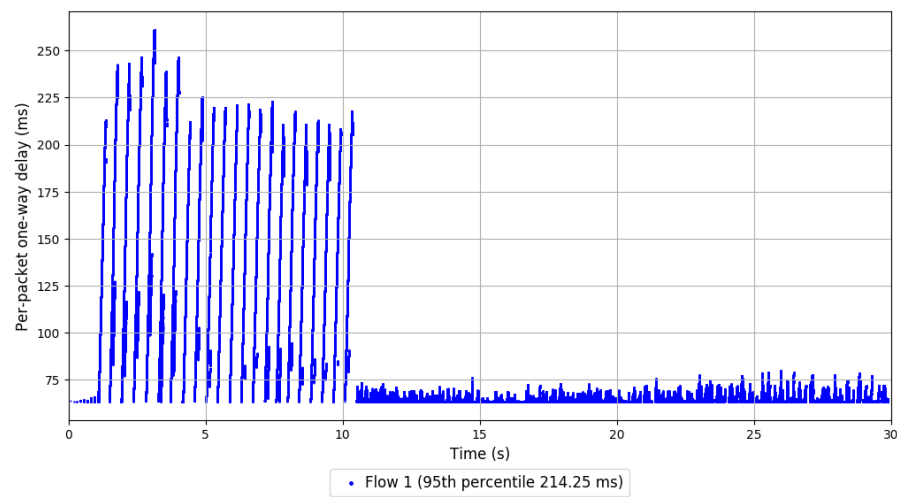
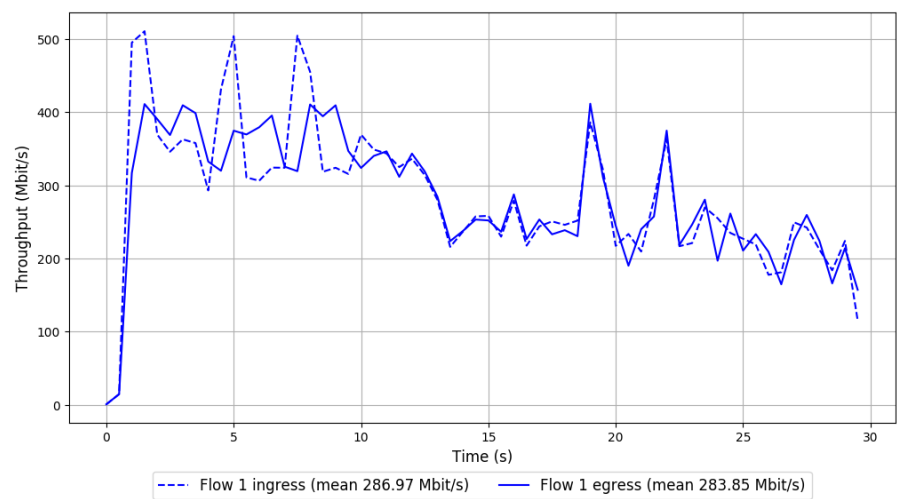
-- Flow 1:

Average throughput: 283.85 Mbit/s

95th percentile per-packet one-way delay: 214.248 ms

Loss rate: 1.09%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-10-11 06:37:14

End at: 2017-10-11 06:37:44

# Below is generated by plot.py at 2017-10-11 09:14:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 237.27 Mbit/s

95th percentile per-packet one-way delay: 89.293 ms

Loss rate: 0.04%

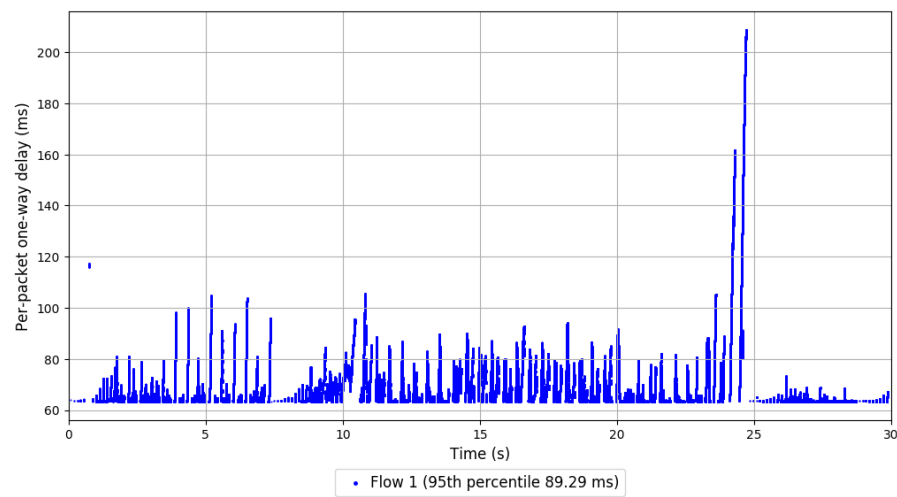
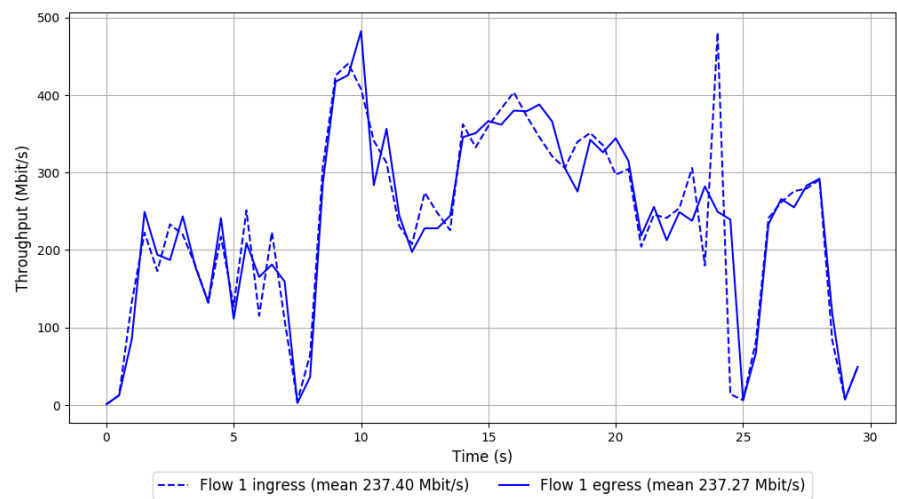
-- Flow 1:

Average throughput: 237.27 Mbit/s

95th percentile per-packet one-way delay: 89.293 ms

Loss rate: 0.04%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-10-11 06:47:58

End at: 2017-10-11 06:48:28

# Below is generated by plot.py at 2017-10-11 09:15:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 294.39 Mbit/s

95th percentile per-packet one-way delay: 182.893 ms

Loss rate: 0.09%

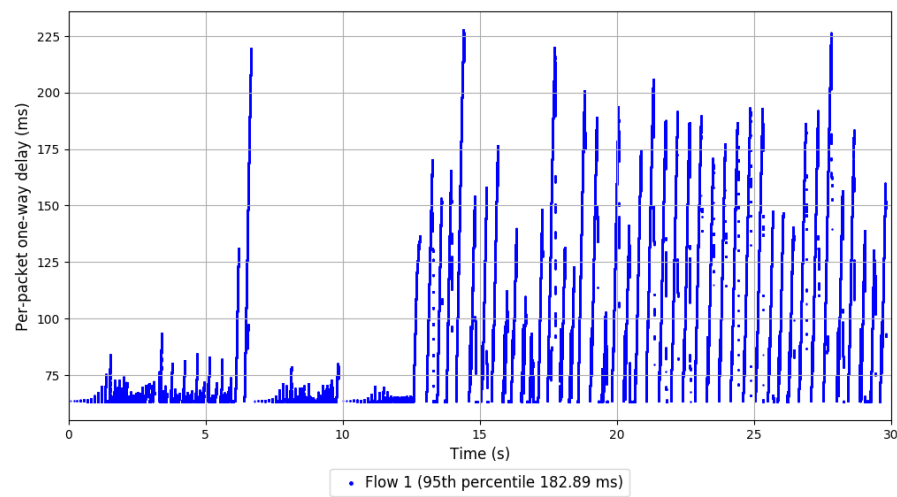
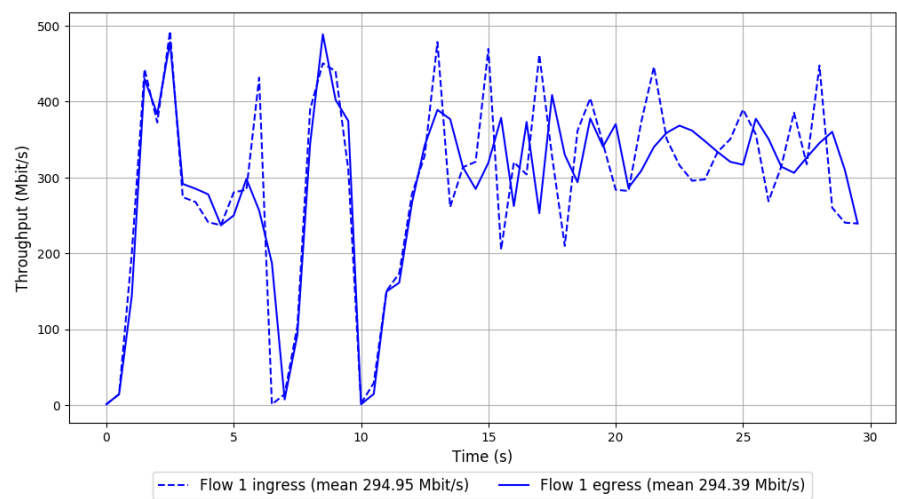
-- Flow 1:

Average throughput: 294.39 Mbit/s

95th percentile per-packet one-way delay: 182.893 ms

Loss rate: 0.09%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-10-11 06:58:26

End at: 2017-10-11 06:58:56

# Below is generated by plot.py at 2017-10-11 09:17:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 265.41 Mbit/s

95th percentile per-packet one-way delay: 80.142 ms

Loss rate: 0.01%

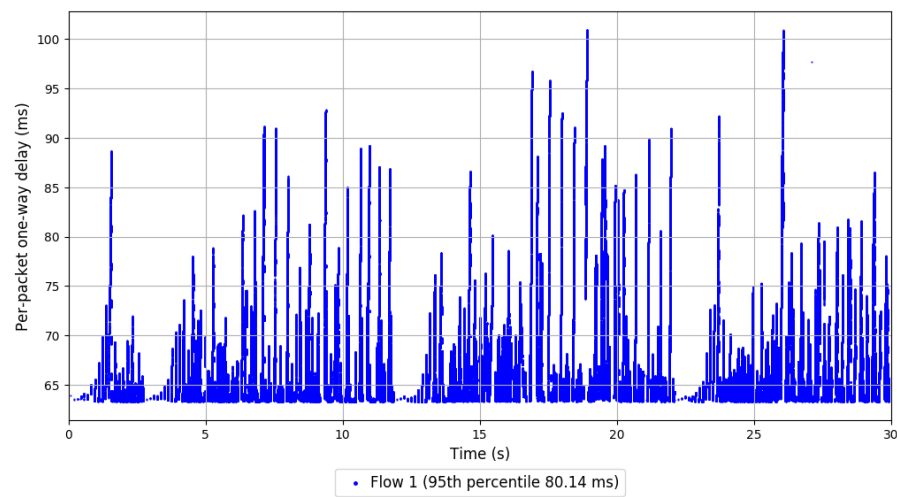
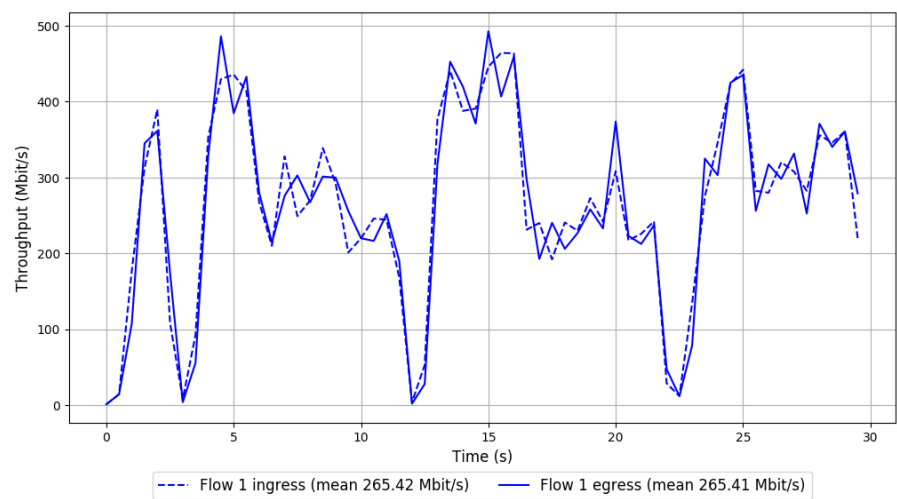
-- Flow 1:

Average throughput: 265.41 Mbit/s

95th percentile per-packet one-way delay: 80.142 ms

Loss rate: 0.01%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-10-11 07:09:13

End at: 2017-10-11 07:09:43

# Below is generated by plot.py at 2017-10-11 09:17:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 260.13 Mbit/s

95th percentile per-packet one-way delay: 129.642 ms

Loss rate: 0.05%

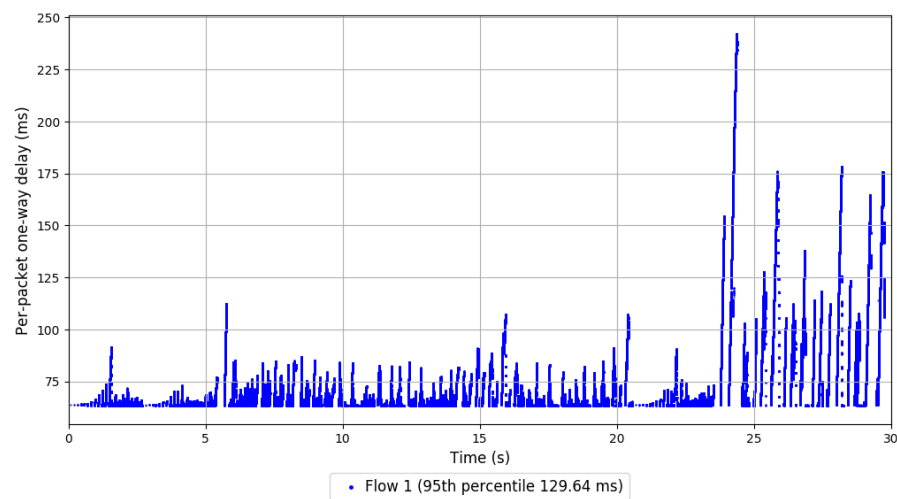
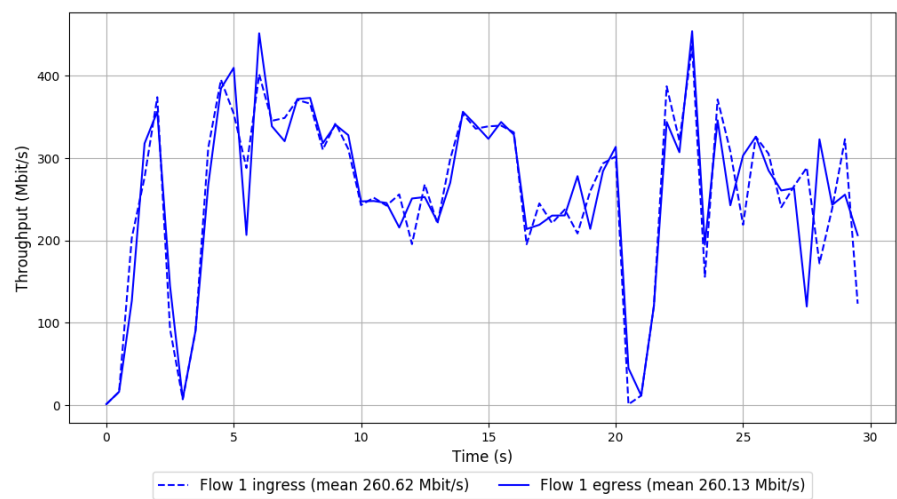
-- Flow 1:

Average throughput: 260.13 Mbit/s

95th percentile per-packet one-way delay: 129.642 ms

Loss rate: 0.05%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-10-11 07:20:08

End at: 2017-10-11 07:20:39

# Below is generated by plot.py at 2017-10-11 09:17:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 246.47 Mbit/s

95th percentile per-packet one-way delay: 79.567 ms

Loss rate: 0.00%

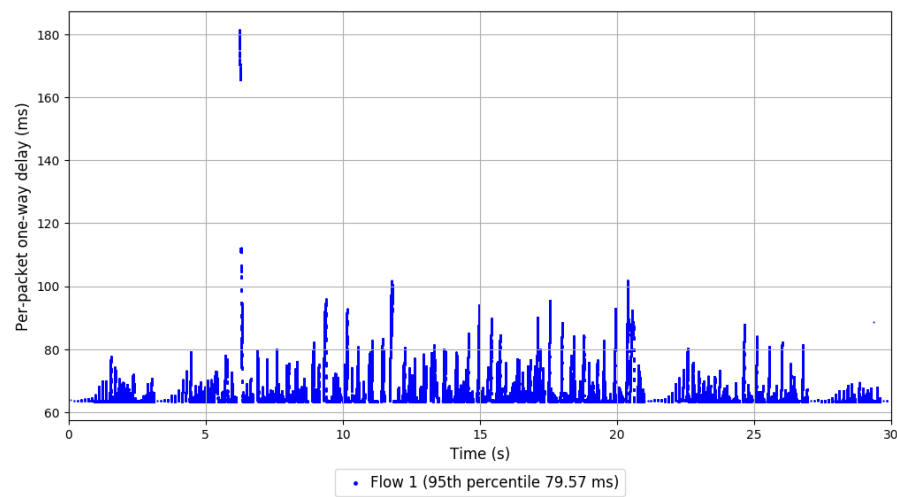
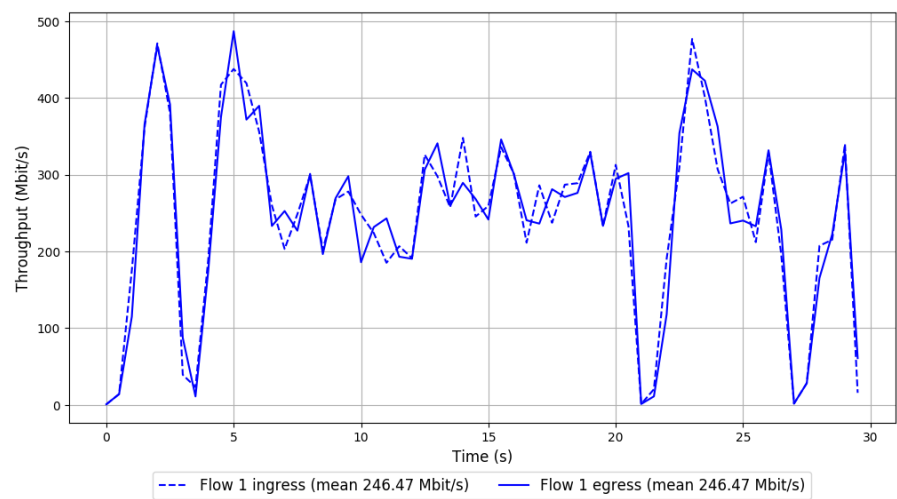
-- Flow 1:

Average throughput: 246.47 Mbit/s

95th percentile per-packet one-way delay: 79.567 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-10-11 07:30:45

End at: 2017-10-11 07:31:15

# Below is generated by plot.py at 2017-10-11 09:18:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 250.66 Mbit/s

95th percentile per-packet one-way delay: 112.299 ms

Loss rate: 0.01%

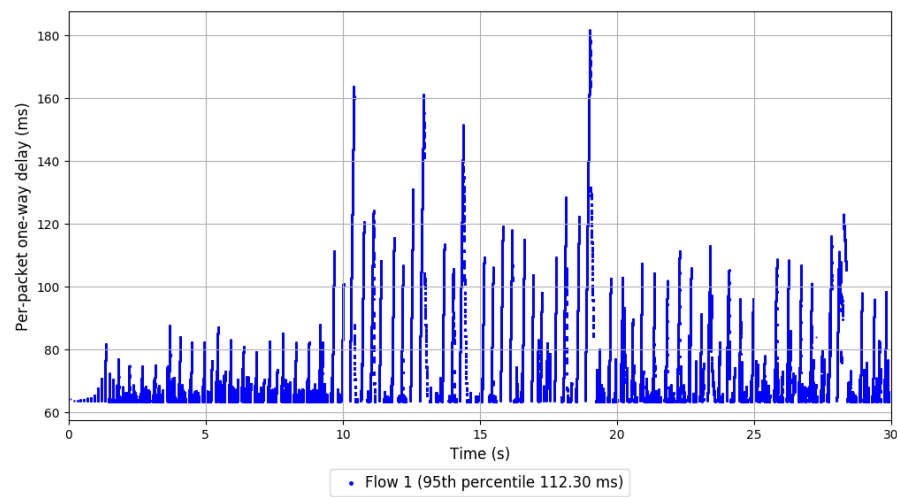
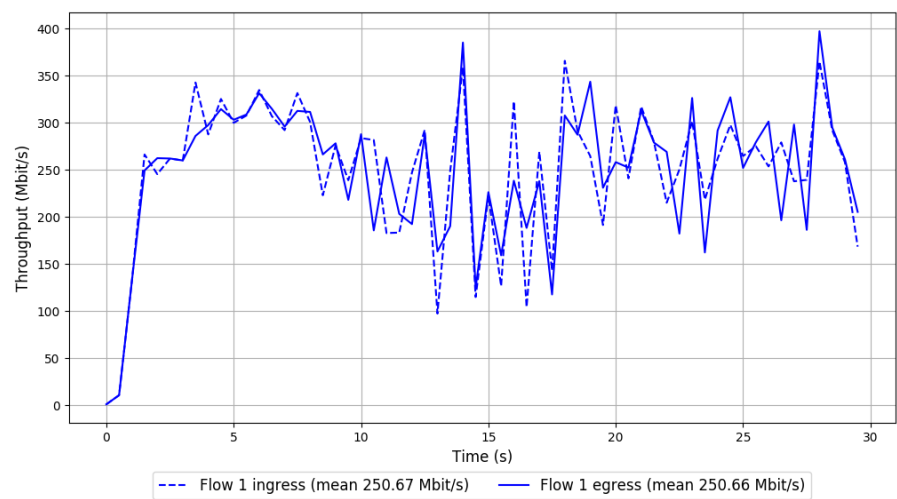
-- Flow 1:

Average throughput: 250.66 Mbit/s

95th percentile per-packet one-way delay: 112.299 ms

Loss rate: 0.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-10-11 07:41:37

End at: 2017-10-11 07:42:07

# Below is generated by plot.py at 2017-10-11 09:18:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 182.22 Mbit/s

95th percentile per-packet one-way delay: 86.126 ms

Loss rate: 0.03%

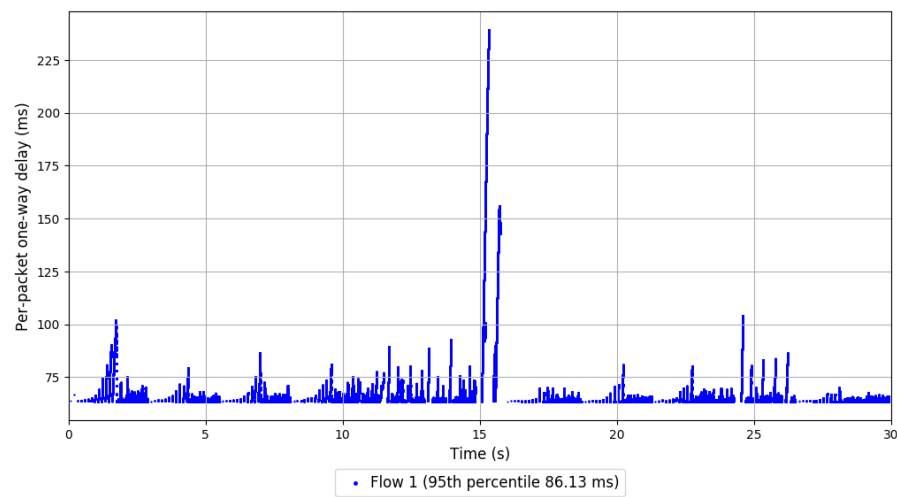
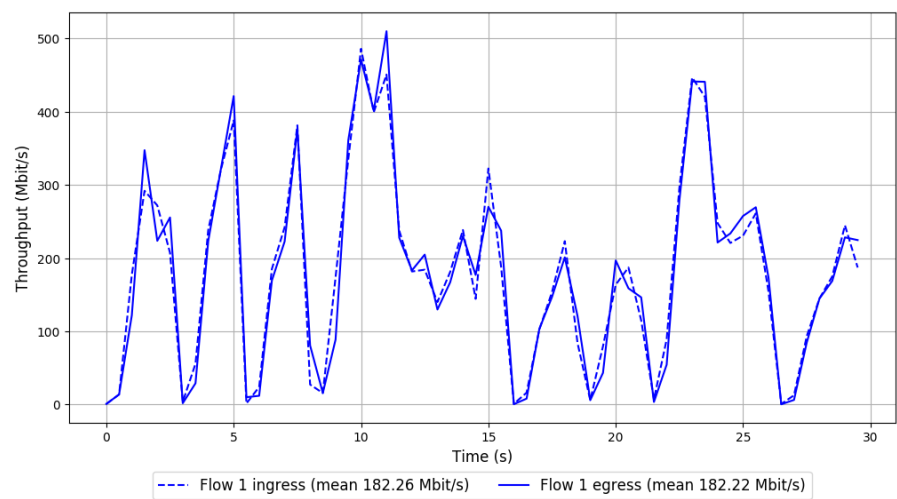
-- Flow 1:

Average throughput: 182.22 Mbit/s

95th percentile per-packet one-way delay: 86.126 ms

Loss rate: 0.03%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

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

End at: 2017-10-11 06:12:17

# Below is generated by plot.py at 2017-10-11 09:18:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 63.424 ms

Loss rate: 0.00%

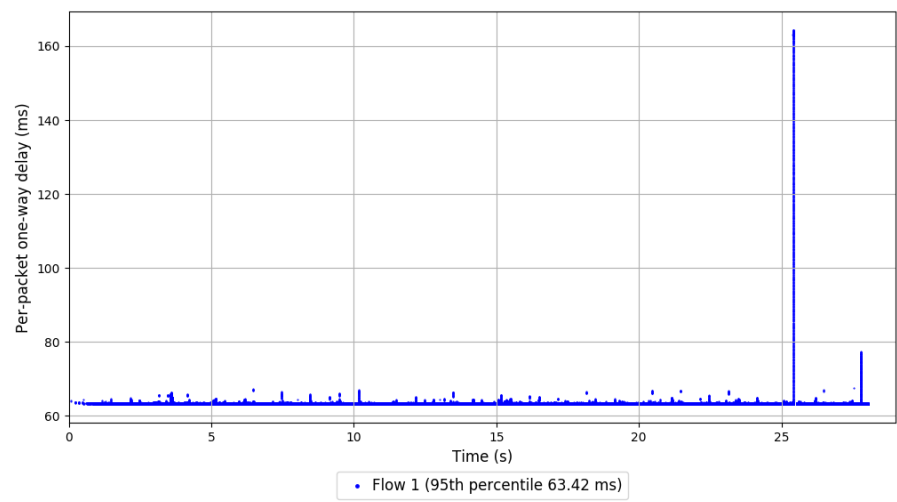
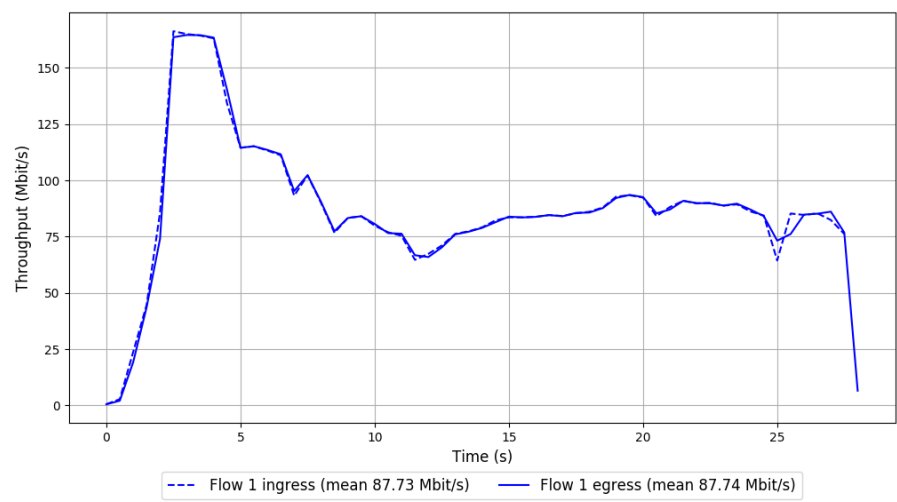
-- Flow 1:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 63.424 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-10-11 06:22:42

End at: 2017-10-11 06:23:12

# Below is generated by plot.py at 2017-10-11 09:18:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 55.84 Mbit/s

95th percentile per-packet one-way delay: 63.466 ms

Loss rate: 0.00%

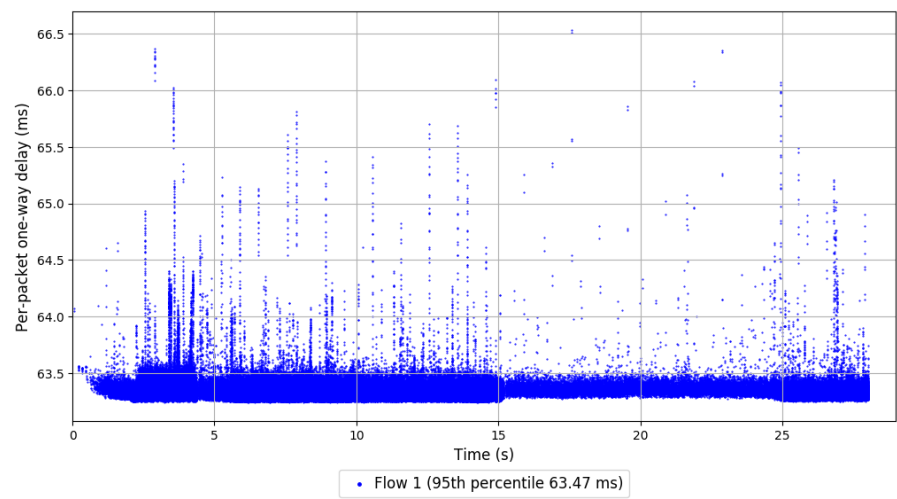
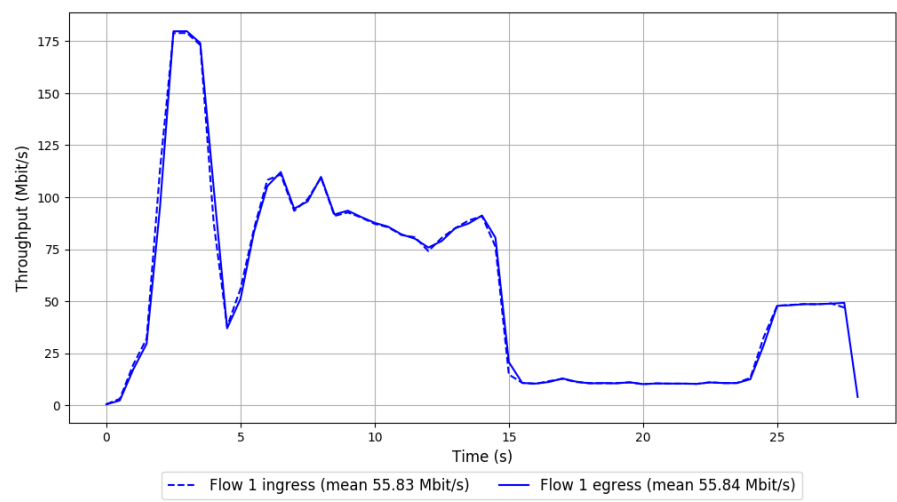
-- Flow 1:

Average throughput: 55.84 Mbit/s

95th percentile per-packet one-way delay: 63.466 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-10-11 06:33:29

End at: 2017-10-11 06:33:59

# Below is generated by plot.py at 2017-10-11 09:18:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.70 Mbit/s

95th percentile per-packet one-way delay: 63.485 ms

Loss rate: 0.00%

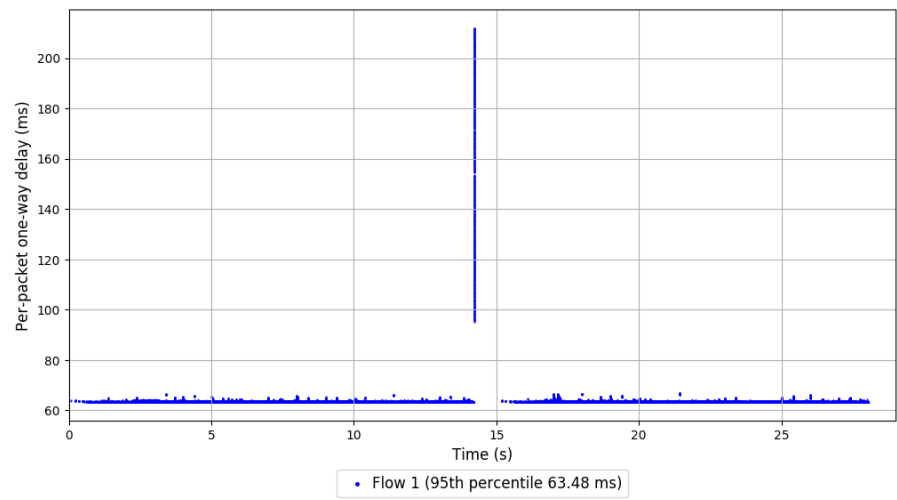
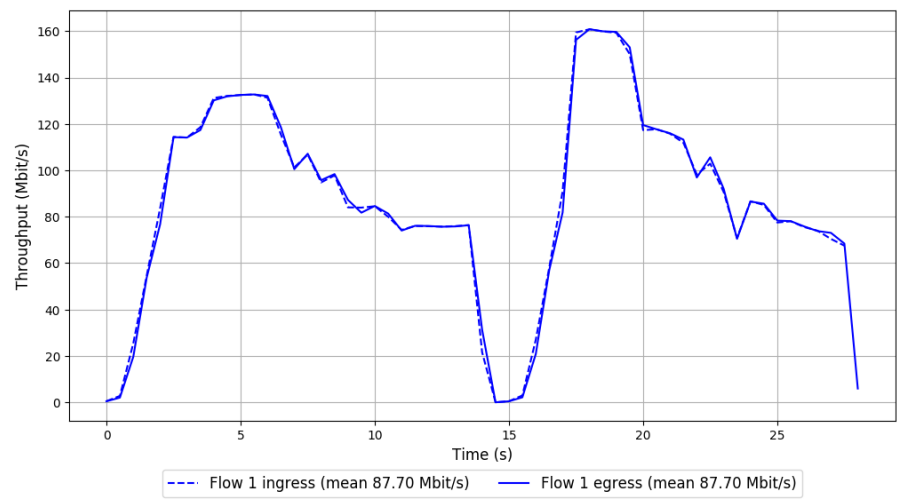
-- Flow 1:

Average throughput: 87.70 Mbit/s

95th percentile per-packet one-way delay: 63.485 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-10-11 06:44:17

End at: 2017-10-11 06:44:47

# Below is generated by plot.py at 2017-10-11 09:19:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 63.403 ms

Loss rate: 0.00%

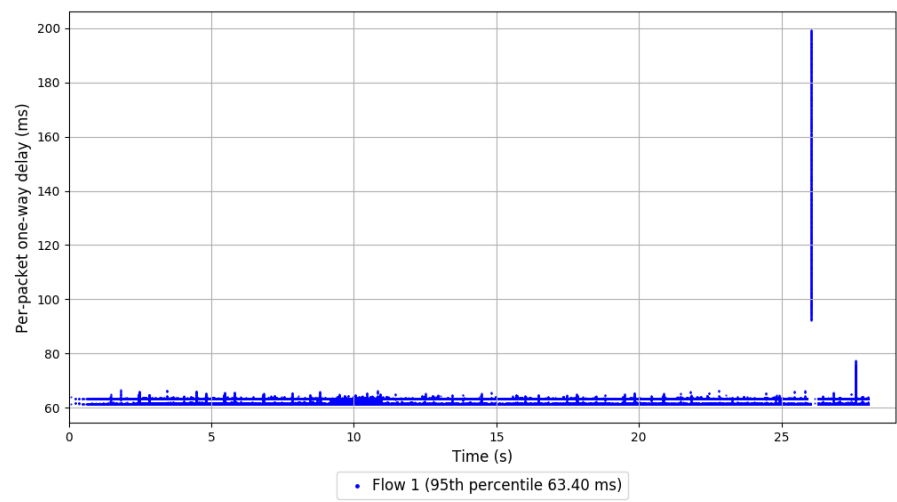
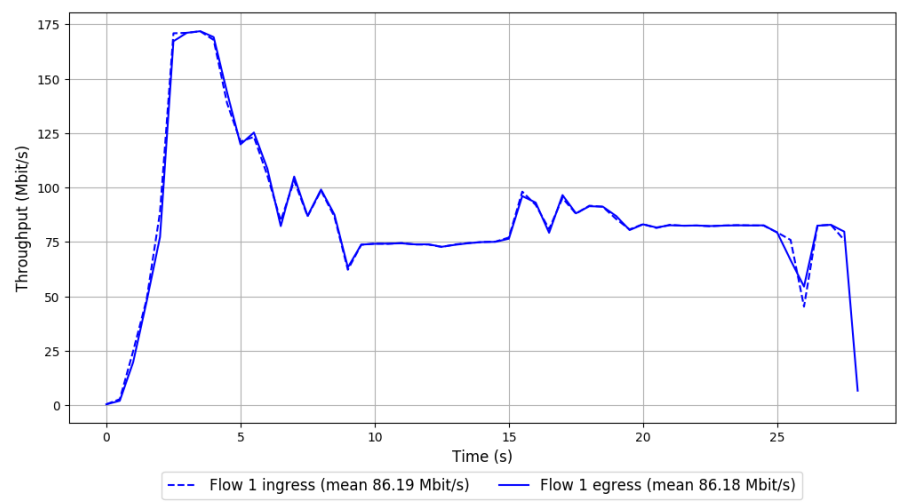
-- Flow 1:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 63.403 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-10-11 06:54:44

End at: 2017-10-11 06:55:14

# Below is generated by plot.py at 2017-10-11 09:19:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.00 Mbit/s

95th percentile per-packet one-way delay: 63.398 ms

Loss rate: 0.00%

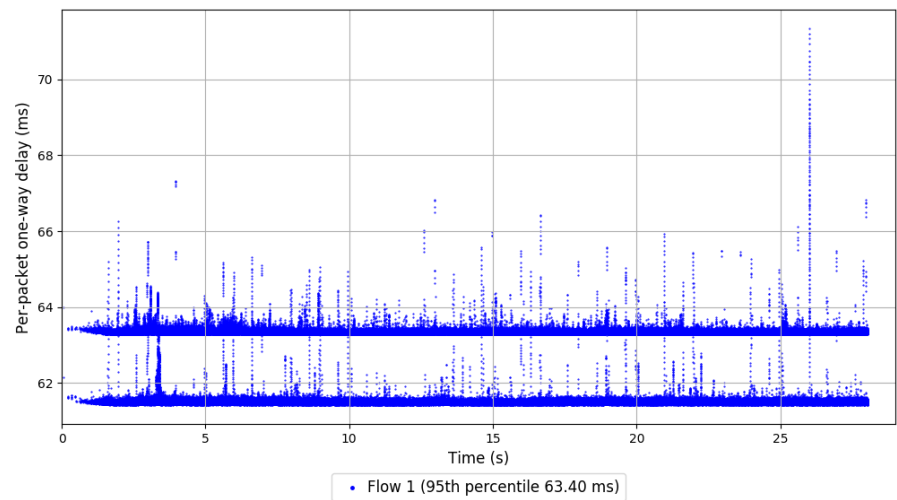
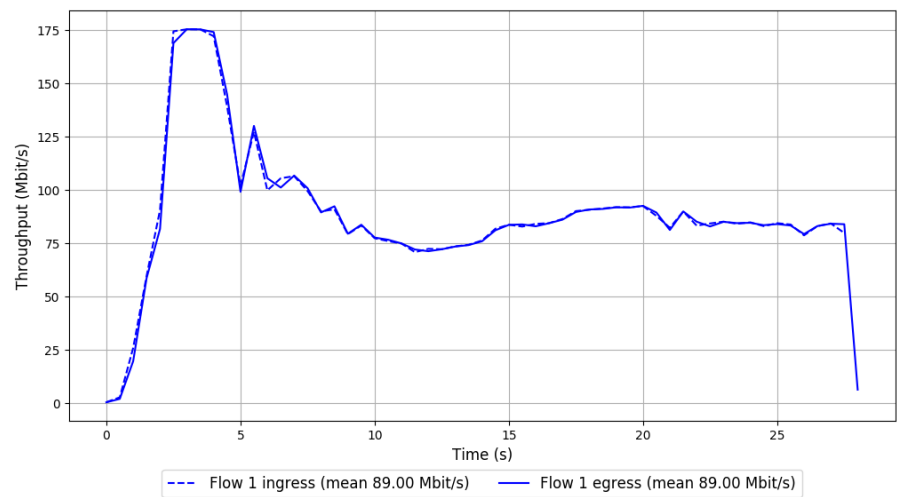
-- Flow 1:

Average throughput: 89.00 Mbit/s

95th percentile per-packet one-way delay: 63.398 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-10-11 07:05:32

End at: 2017-10-11 07:06:02

# Below is generated by plot.py at 2017-10-11 09:19:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.93 Mbit/s

95th percentile per-packet one-way delay: 63.436 ms

Loss rate: 0.00%

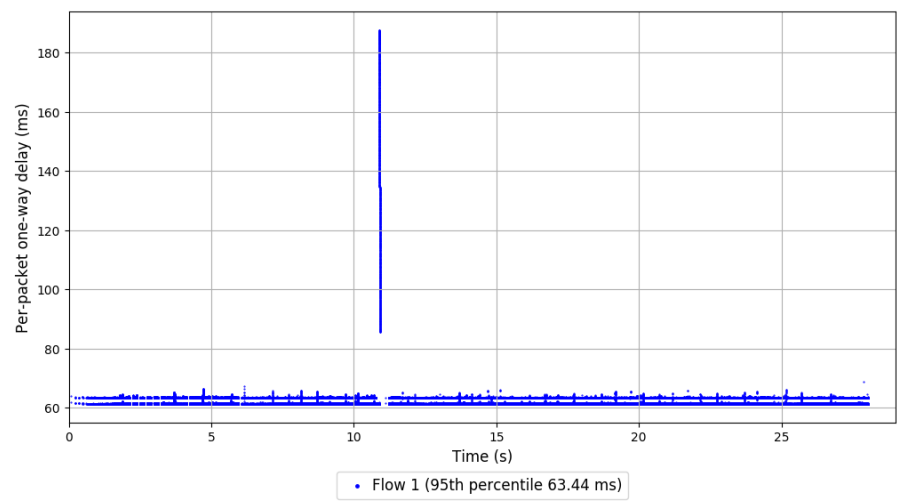
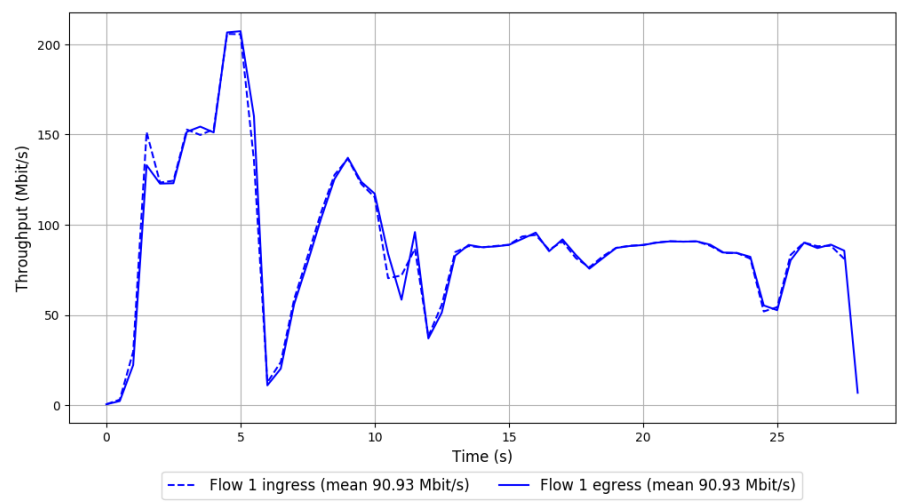
-- Flow 1:

Average throughput: 90.93 Mbit/s

95th percentile per-packet one-way delay: 63.436 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-10-11 07:16:28

End at: 2017-10-11 07:16:58

# Below is generated by plot.py at 2017-10-11 09:19:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 63.617 ms

Loss rate: 0.00%

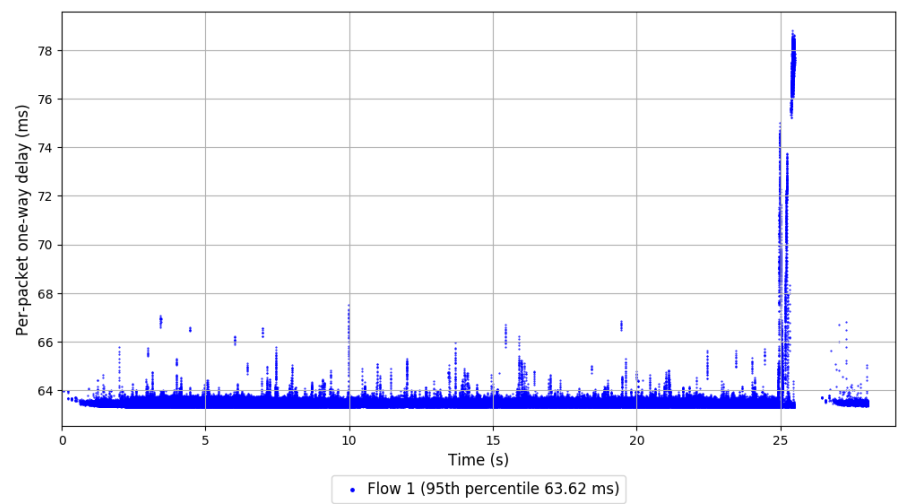
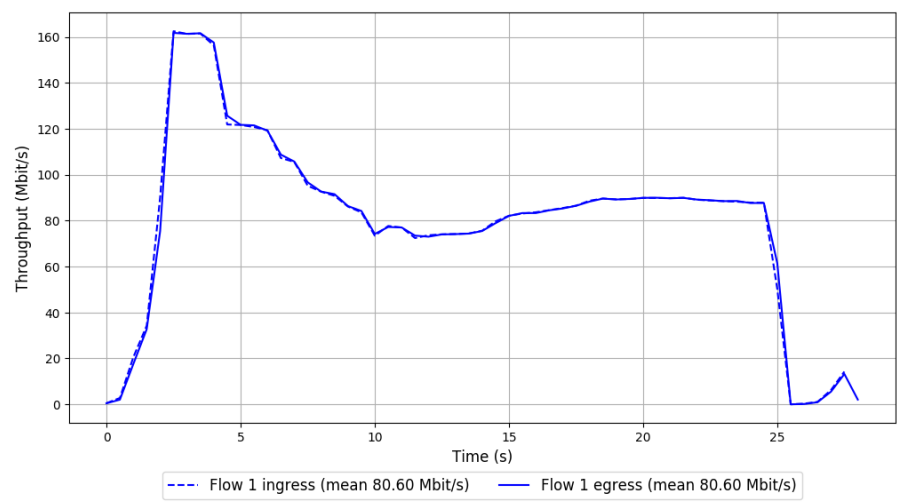
-- Flow 1:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 63.617 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link

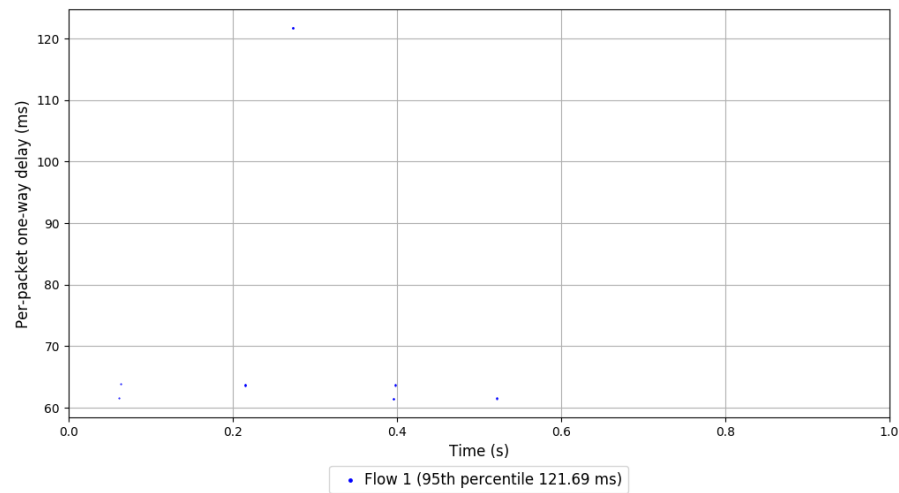
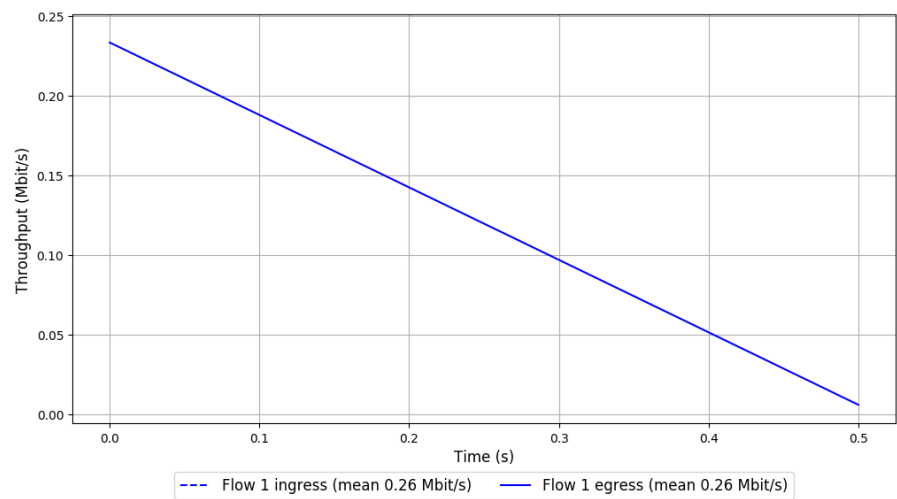


Run 8: Statistics of Copa

Start at: 2017-10-11 07:27:13

End at: 2017-10-11 07:27:43

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-10-11 07:37:55

End at: 2017-10-11 07:38:25

# Below is generated by plot.py at 2017-10-11 09:20:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.76 Mbit/s

95th percentile per-packet one-way delay: 63.482 ms

Loss rate: 0.00%

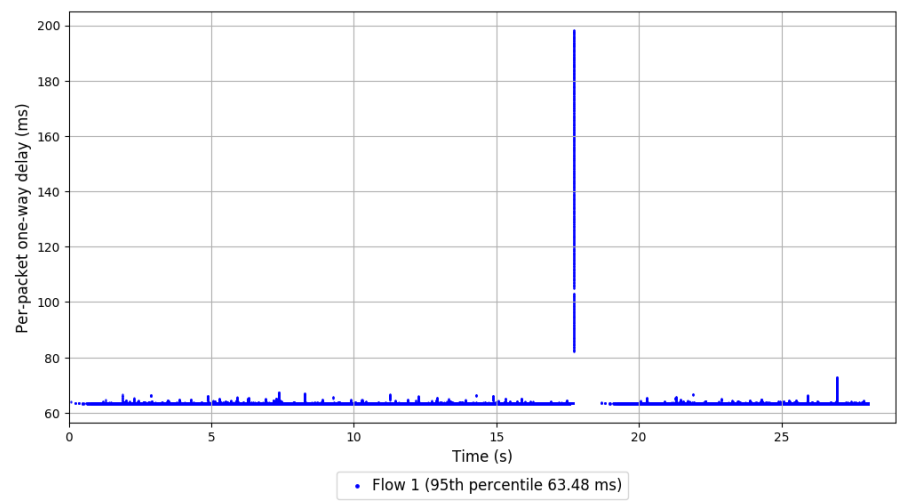
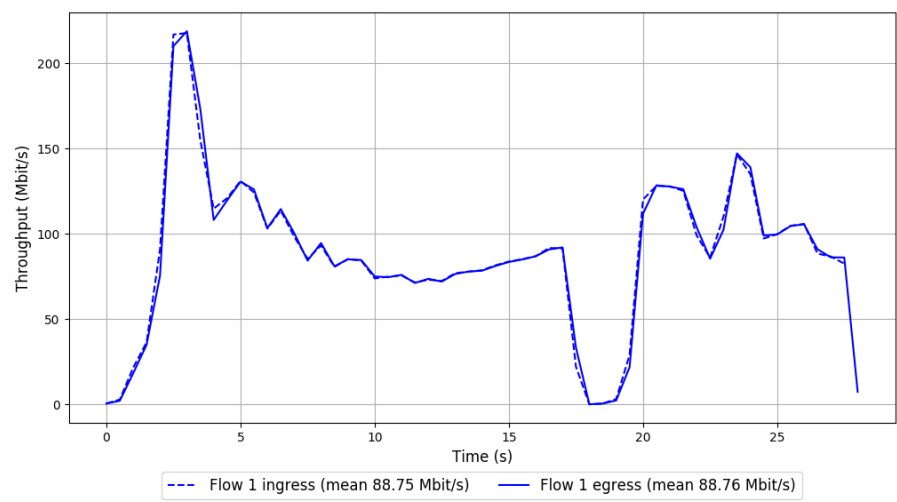
-- Flow 1:

Average throughput: 88.76 Mbit/s

95th percentile per-packet one-way delay: 63.482 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-10-11 07:48:35

End at: 2017-10-11 07:49:05

# Below is generated by plot.py at 2017-10-11 09:20:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.83 Mbit/s

95th percentile per-packet one-way delay: 63.532 ms

Loss rate: 0.00%

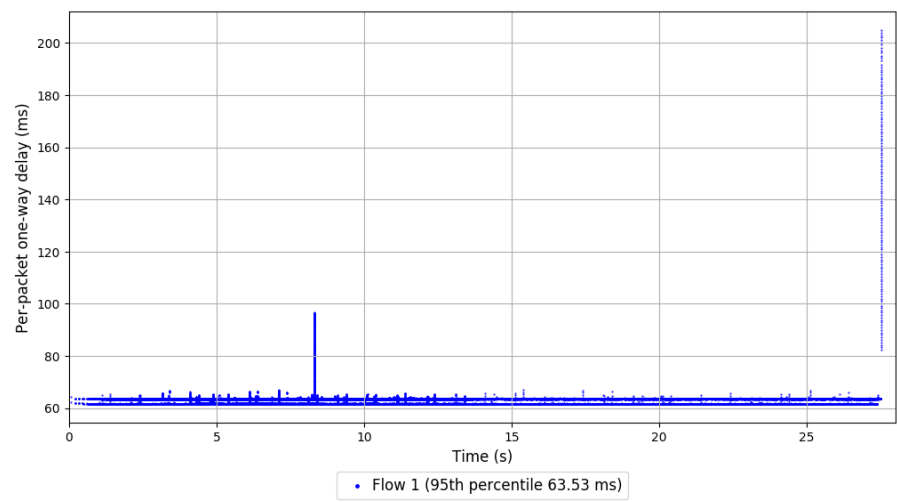
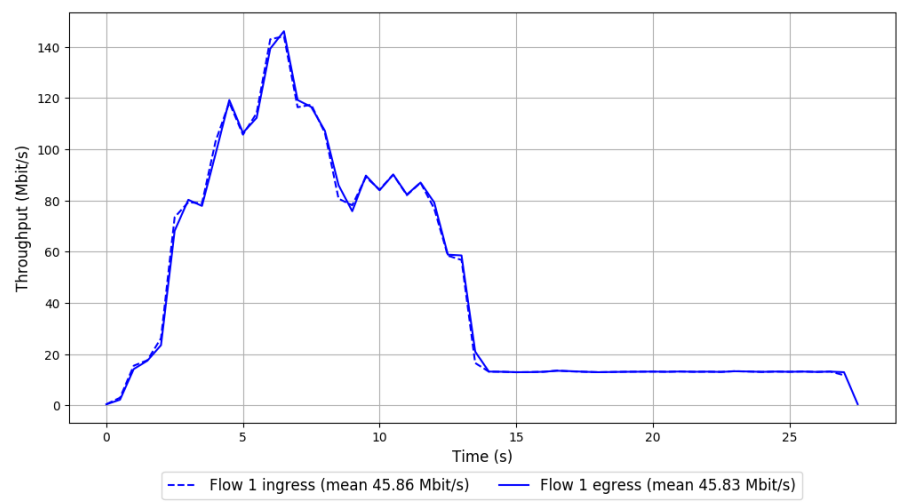
-- Flow 1:

Average throughput: 45.83 Mbit/s

95th percentile per-packet one-way delay: 63.532 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

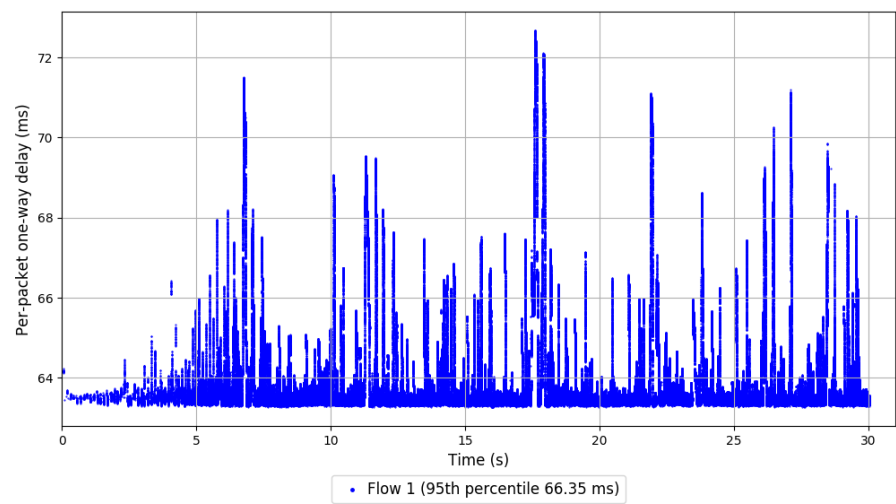
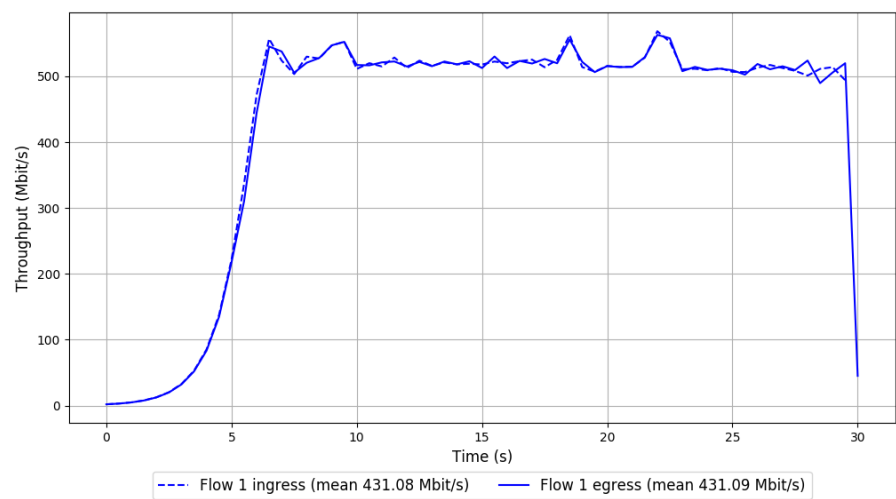


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-10-11 06:08:57
End at: 2017-10-11 06:09:27

# Below is generated by plot.py at 2017-10-11 09:26:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 431.09 Mbit/s
95th percentile per-packet one-way delay: 66.351 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 431.09 Mbit/s
95th percentile per-packet one-way delay: 66.351 ms
Loss rate: 0.00%
```

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-10-11 06:19:58

End at: 2017-10-11 06:20:28

# Below is generated by plot.py at 2017-10-11 09:26:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 413.17 Mbit/s

95th percentile per-packet one-way delay: 83.262 ms

Loss rate: 0.01%

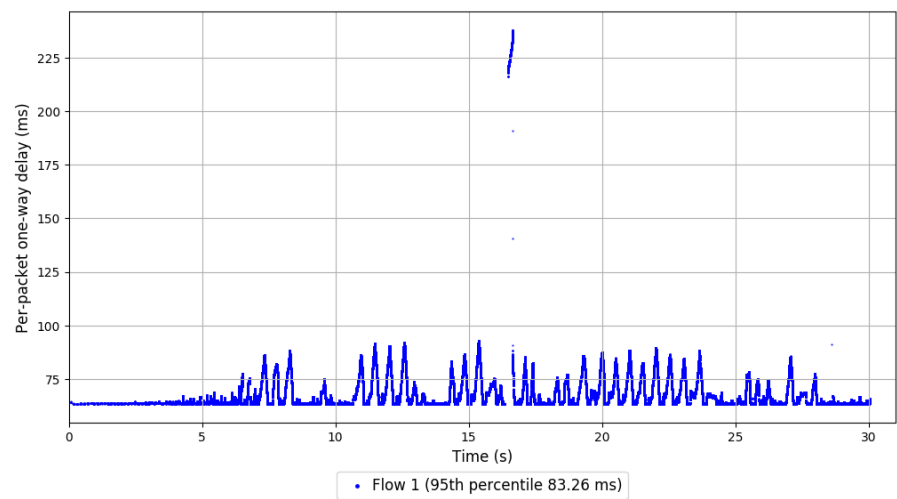
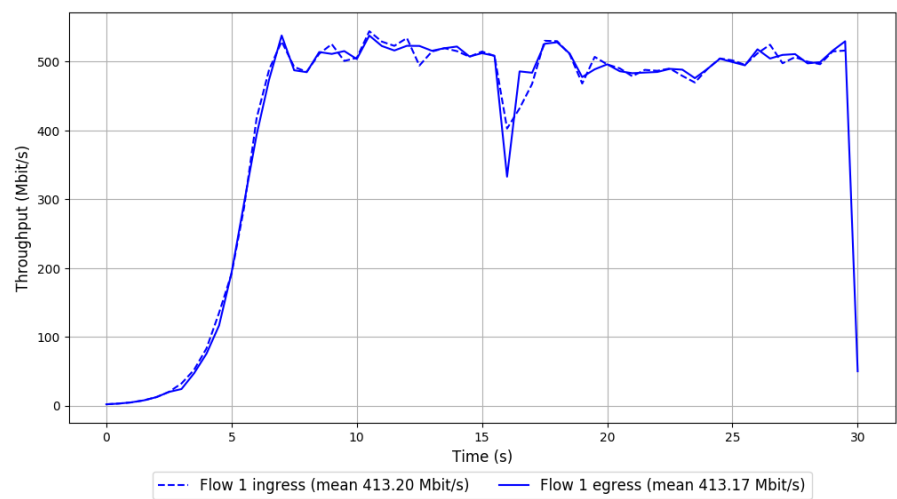
-- Flow 1:

Average throughput: 413.17 Mbit/s

95th percentile per-packet one-way delay: 83.262 ms

Loss rate: 0.01%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-10-11 06:30:55

End at: 2017-10-11 06:31:25

# Below is generated by plot.py at 2017-10-11 09:26:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 412.30 Mbit/s

95th percentile per-packet one-way delay: 74.544 ms

Loss rate: 0.00%

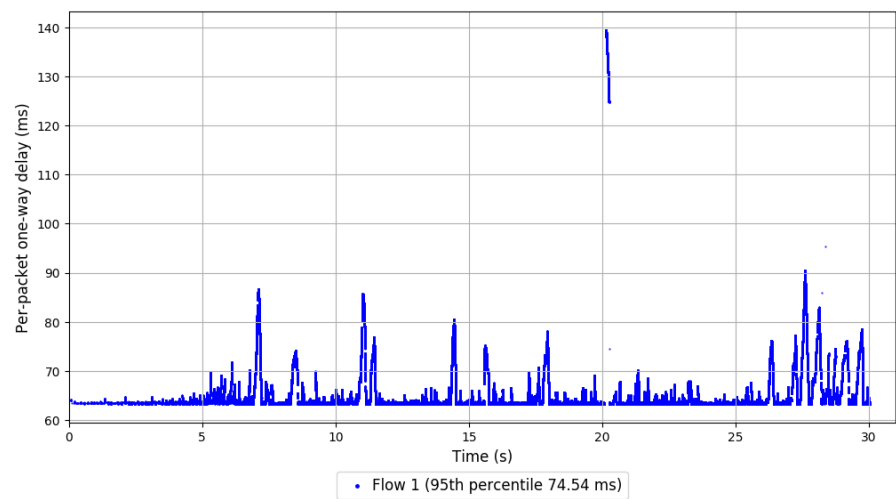
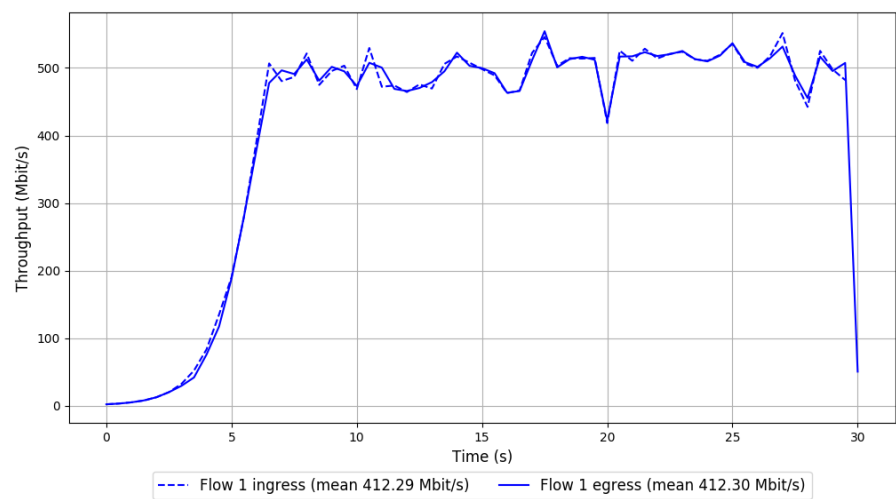
-- Flow 1:

Average throughput: 412.30 Mbit/s

95th percentile per-packet one-way delay: 74.544 ms

Loss rate: 0.00%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

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

End at: 2017-10-11 06:42:11

# Below is generated by plot.py at 2017-10-11 09:27:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 411.36 Mbit/s

95th percentile per-packet one-way delay: 67.954 ms

Loss rate: 0.00%

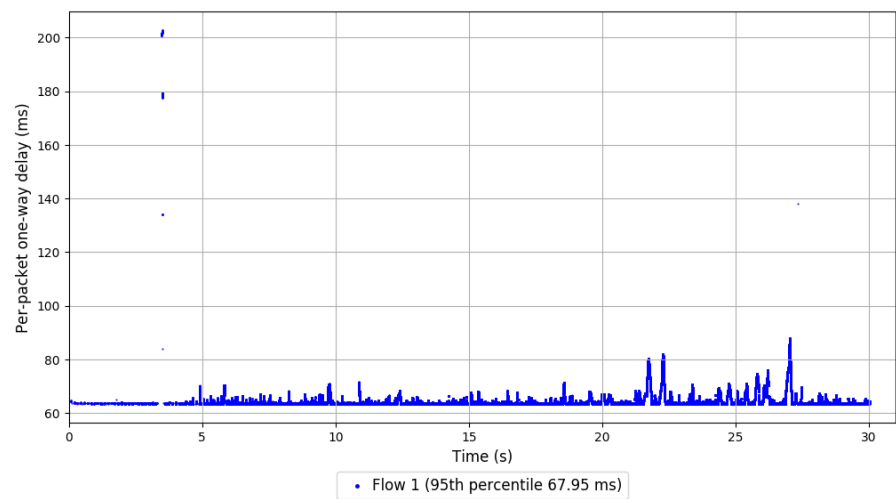
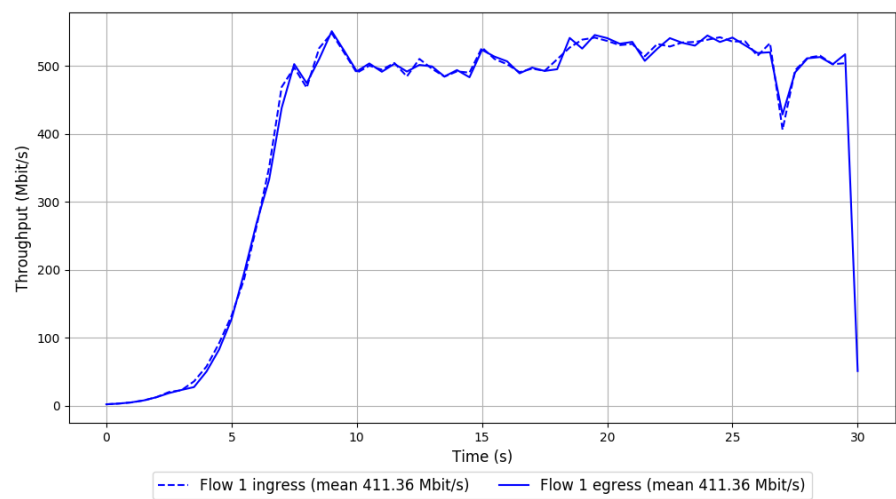
-- Flow 1:

Average throughput: 411.36 Mbit/s

95th percentile per-packet one-way delay: 67.954 ms

Loss rate: 0.00%

Run 4: Report of CalibratedKoho — Data Link

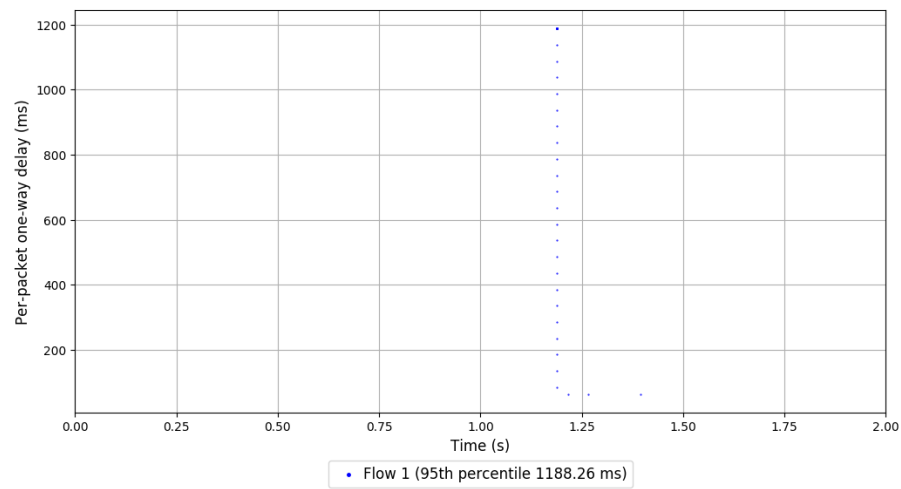
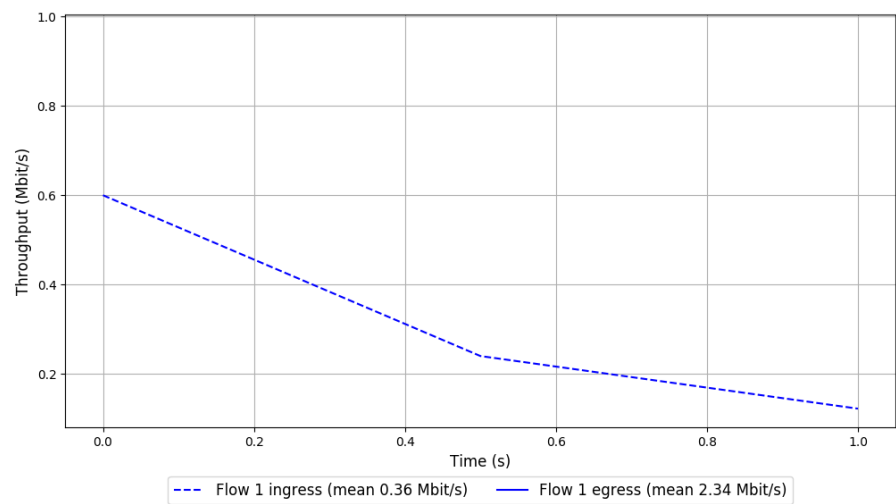


Run 5: Statistics of CalibratedKoho

Start at: 2017-10-11 06:52:29

End at: 2017-10-11 06:52:59

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-10-11 07:02:52

End at: 2017-10-11 07:03:22

# Below is generated by plot.py at 2017-10-11 09:27:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 426.73 Mbit/s

95th percentile per-packet one-way delay: 78.213 ms

Loss rate: 0.00%

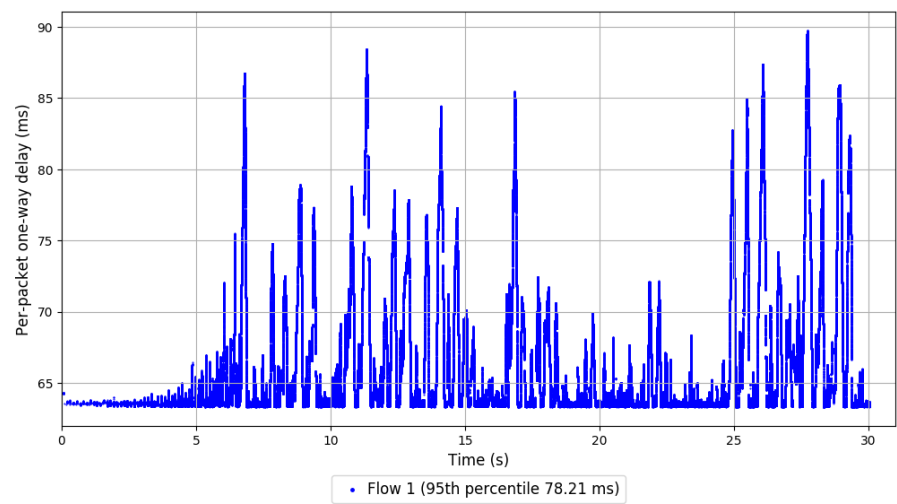
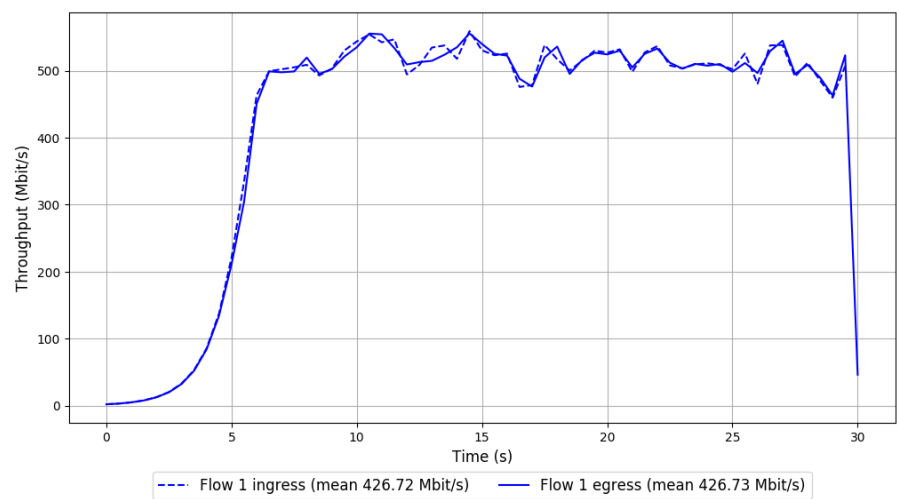
-- Flow 1:

Average throughput: 426.73 Mbit/s

95th percentile per-packet one-way delay: 78.213 ms

Loss rate: 0.00%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-10-11 07:13:43

End at: 2017-10-11 07:14:13

# Below is generated by plot.py at 2017-10-11 09:27:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 398.12 Mbit/s

95th percentile per-packet one-way delay: 74.203 ms

Loss rate: 0.05%

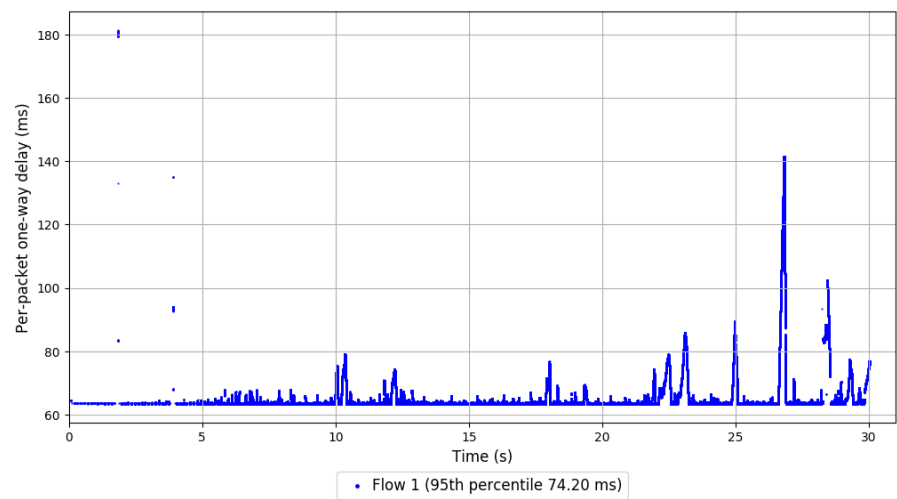
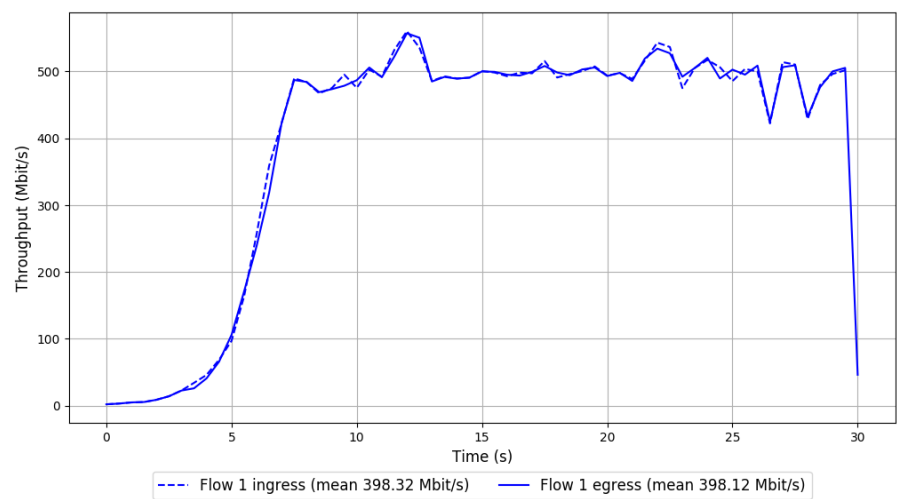
-- Flow 1:

Average throughput: 398.12 Mbit/s

95th percentile per-packet one-way delay: 74.203 ms

Loss rate: 0.05%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-10-11 07:24:26

End at: 2017-10-11 07:24:56

# Below is generated by plot.py at 2017-10-11 09:27:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 428.43 Mbit/s

95th percentile per-packet one-way delay: 74.889 ms

Loss rate: 0.00%

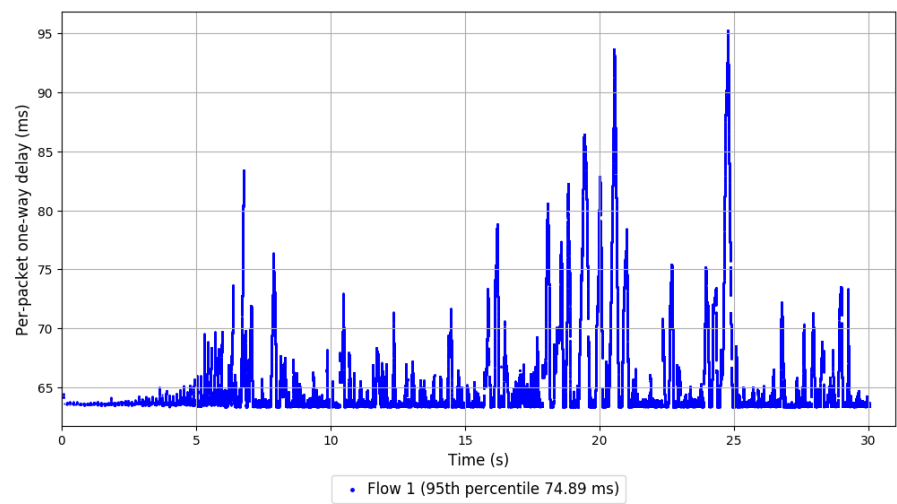
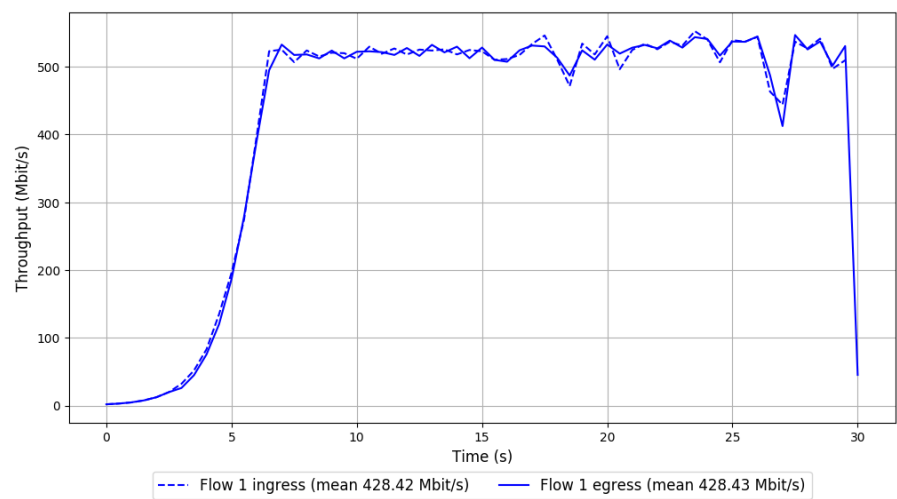
-- Flow 1:

Average throughput: 428.43 Mbit/s

95th percentile per-packet one-way delay: 74.889 ms

Loss rate: 0.00%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-10-11 07:35:12

End at: 2017-10-11 07:35:42

# Below is generated by plot.py at 2017-10-11 09:27:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 423.25 Mbit/s

95th percentile per-packet one-way delay: 76.543 ms

Loss rate: 0.01%

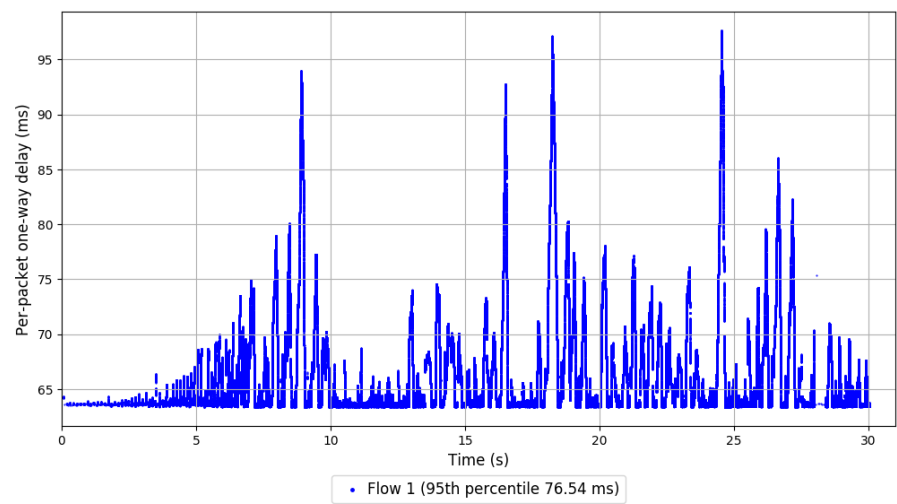
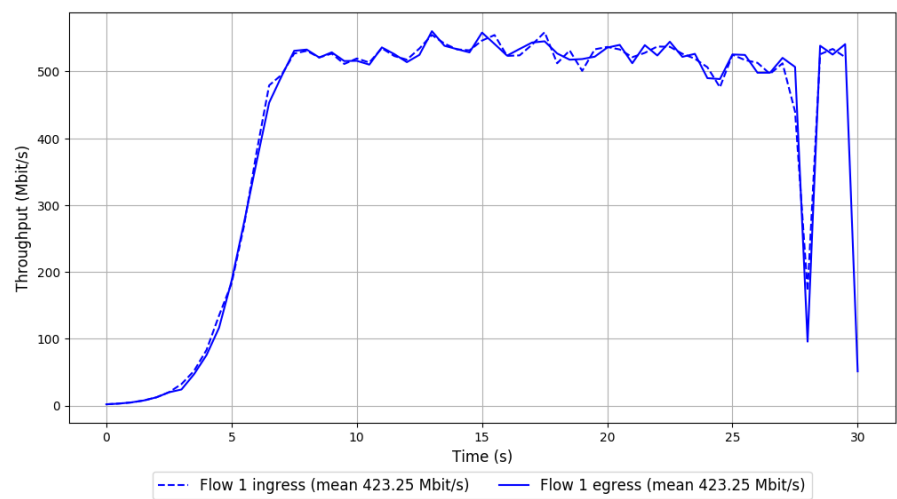
-- Flow 1:

Average throughput: 423.25 Mbit/s

95th percentile per-packet one-way delay: 76.543 ms

Loss rate: 0.01%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-10-11 07:45:59

End at: 2017-10-11 07:46:29

# Below is generated by plot.py at 2017-10-11 09:31:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 411.80 Mbit/s

95th percentile per-packet one-way delay: 80.778 ms

Loss rate: 0.01%

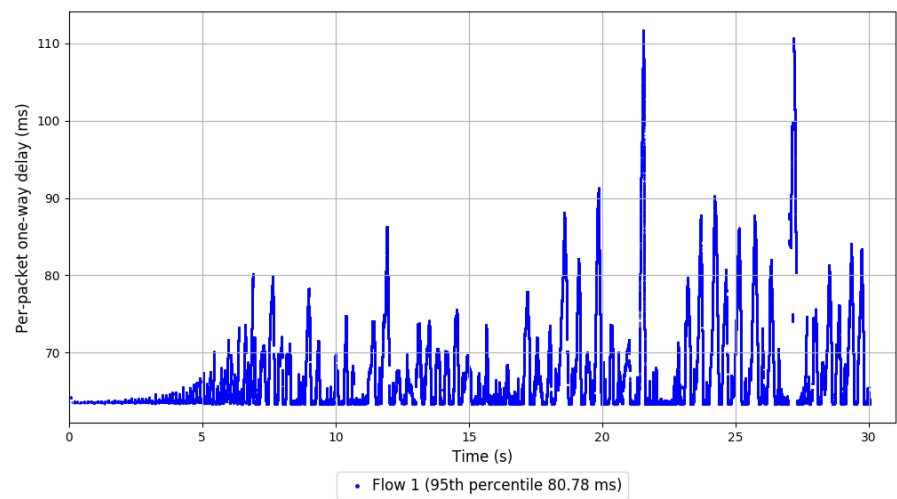
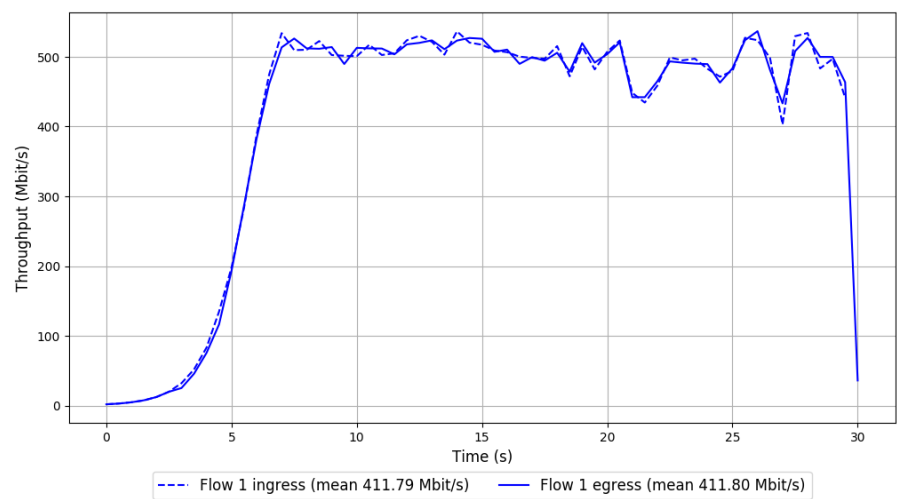
-- Flow 1:

Average throughput: 411.80 Mbit/s

95th percentile per-packet one-way delay: 80.778 ms

Loss rate: 0.01%

Run 10: Report of CalibratedKoho — Data Link

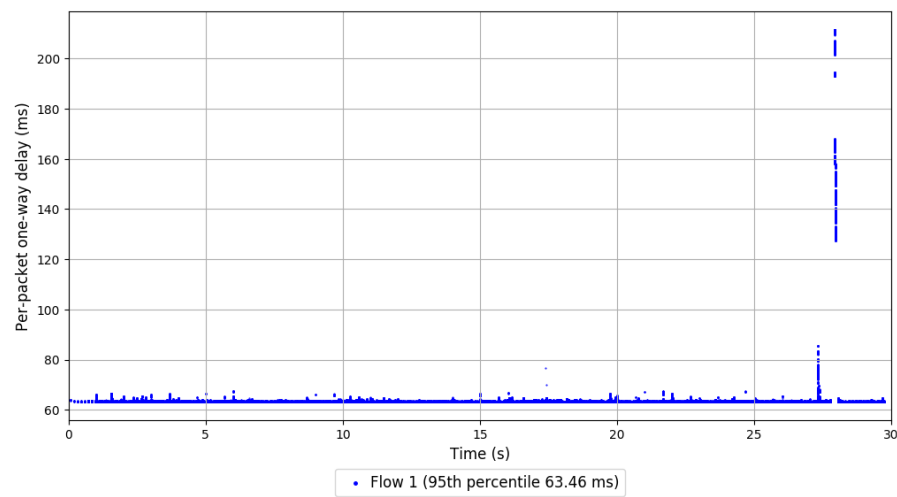
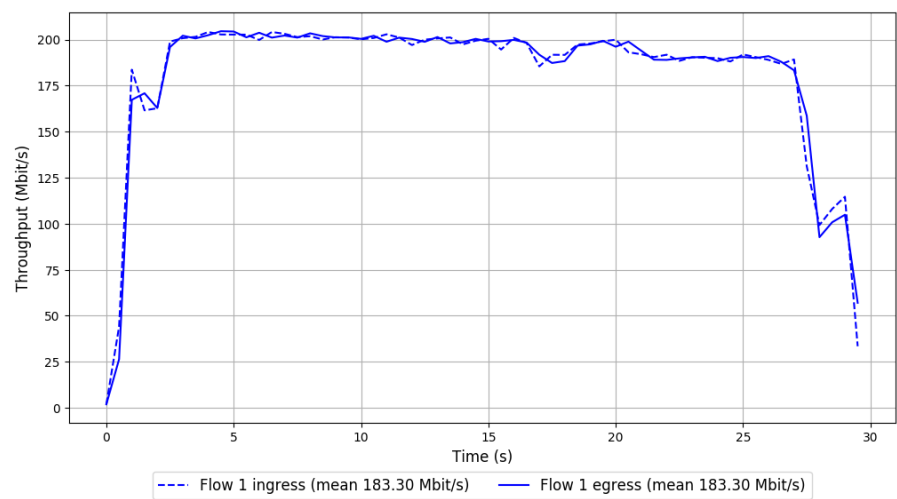


```
Run 1: Statistics of Indigo

Start at: 2017-10-11 06:13:17
End at: 2017-10-11 06:13:47

# Below is generated by plot.py at 2017-10-11 09:31:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.30 Mbit/s
95th percentile per-packet one-way delay: 63.463 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 183.30 Mbit/s
95th percentile per-packet one-way delay: 63.463 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-10-11 06:24:09

End at: 2017-10-11 06:24:39

# Below is generated by plot.py at 2017-10-11 09:31:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 193.40 Mbit/s

95th percentile per-packet one-way delay: 63.430 ms

Loss rate: 0.00%

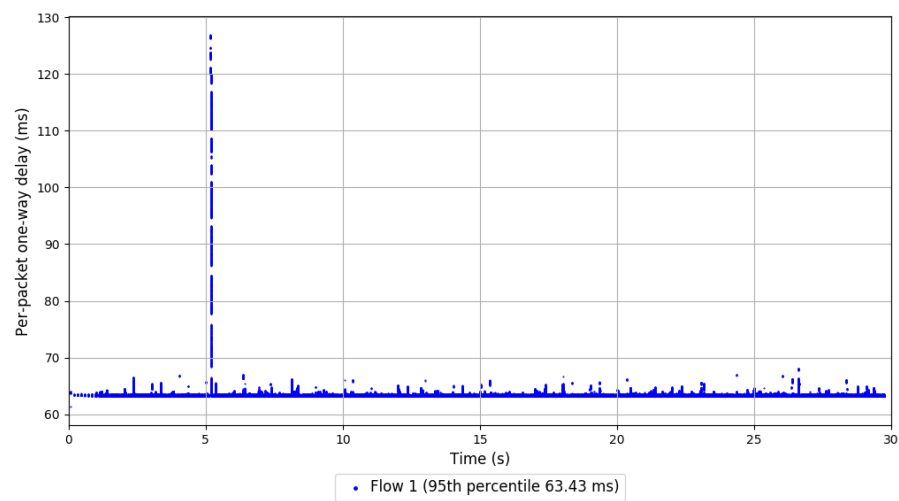
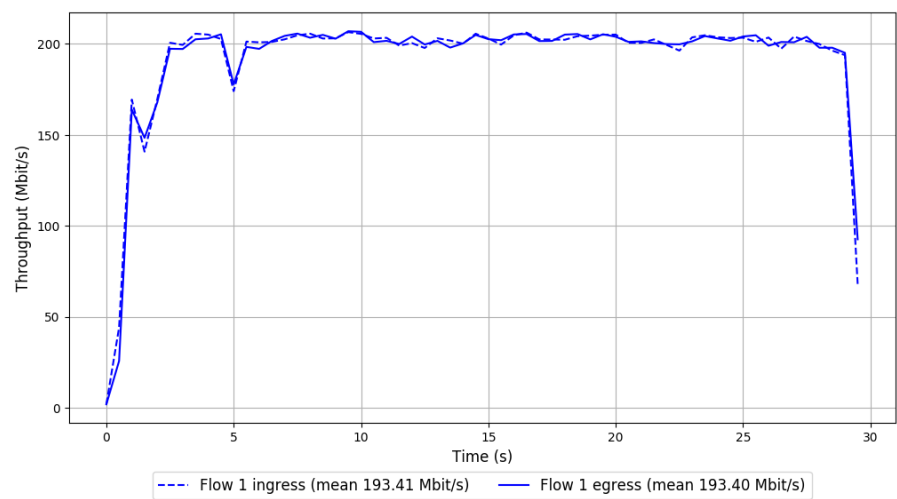
-- Flow 1:

Average throughput: 193.40 Mbit/s

95th percentile per-packet one-way delay: 63.430 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-10-11 06:34:59

End at: 2017-10-11 06:35:29

# Below is generated by plot.py at 2017-10-11 09:31:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.94 Mbit/s

95th percentile per-packet one-way delay: 63.454 ms

Loss rate: 0.00%

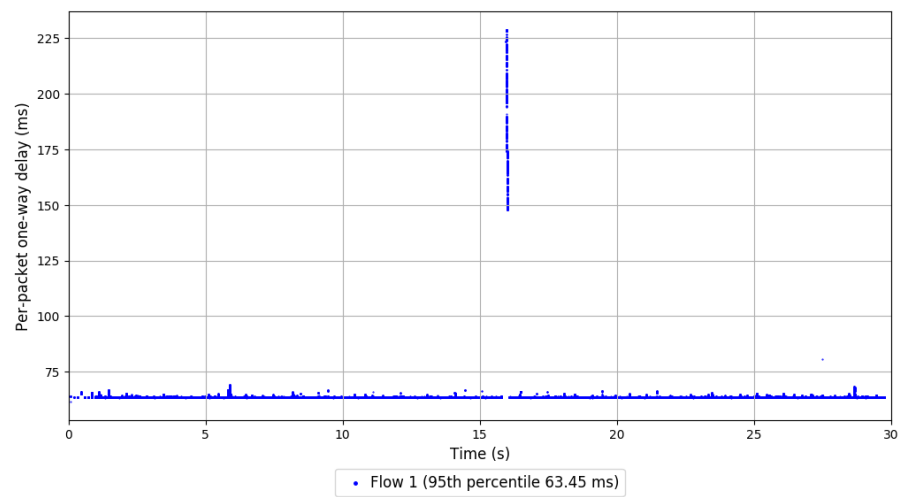
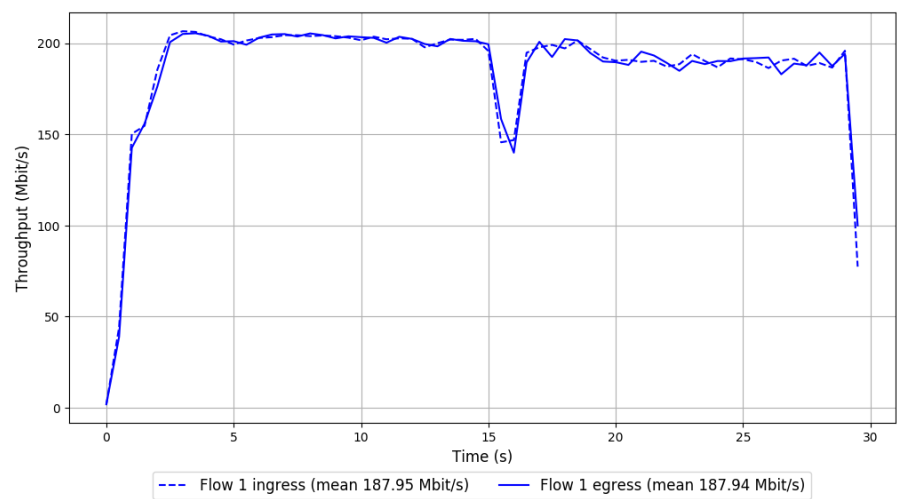
-- Flow 1:

Average throughput: 187.94 Mbit/s

95th percentile per-packet one-way delay: 63.454 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-10-11 06:45:46

End at: 2017-10-11 06:46:16

# Below is generated by plot.py at 2017-10-11 09:31:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 193.04 Mbit/s

95th percentile per-packet one-way delay: 63.465 ms

Loss rate: 0.00%

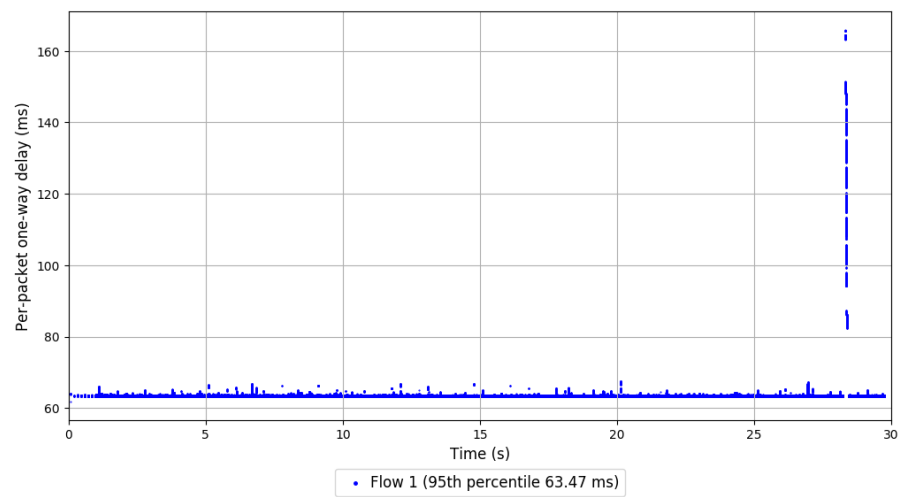
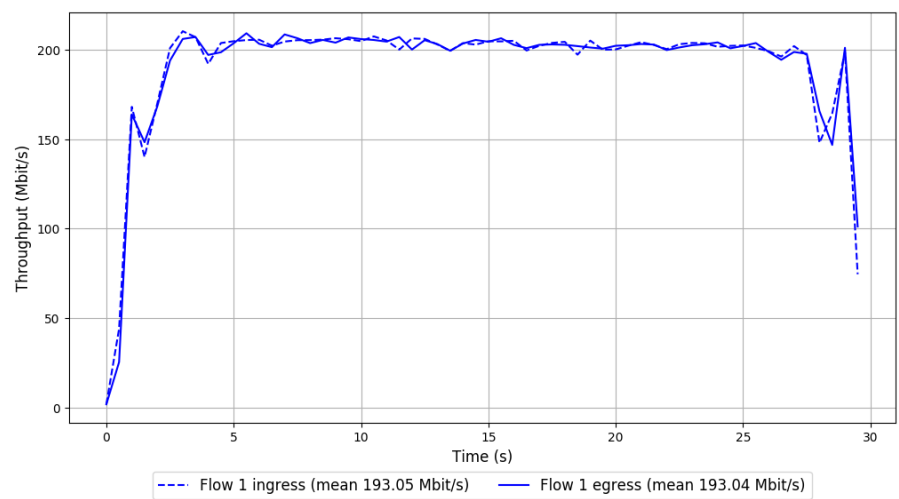
-- Flow 1:

Average throughput: 193.04 Mbit/s

95th percentile per-packet one-way delay: 63.465 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-10-11 06:56:13

End at: 2017-10-11 06:56:43

# Below is generated by plot.py at 2017-10-11 09:31:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 195.38 Mbit/s

95th percentile per-packet one-way delay: 63.465 ms

Loss rate: 0.01%

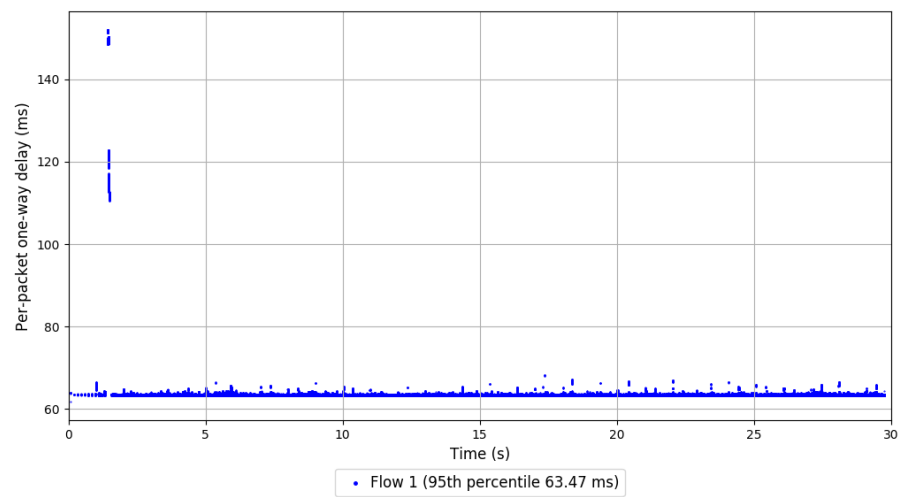
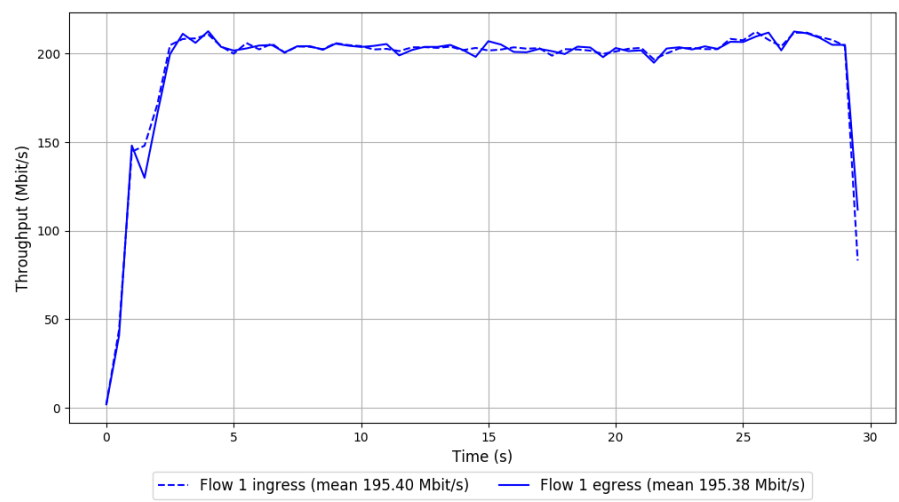
-- Flow 1:

Average throughput: 195.38 Mbit/s

95th percentile per-packet one-way delay: 63.465 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

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

End at: 2017-10-11 07:07:31

# Below is generated by plot.py at 2017-10-11 09:31:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 189.78 Mbit/s

95th percentile per-packet one-way delay: 63.489 ms

Loss rate: 0.00%

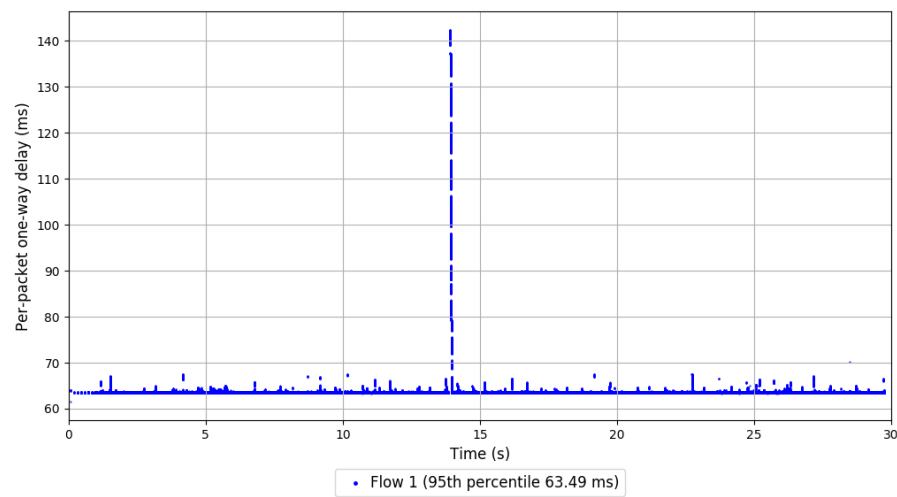
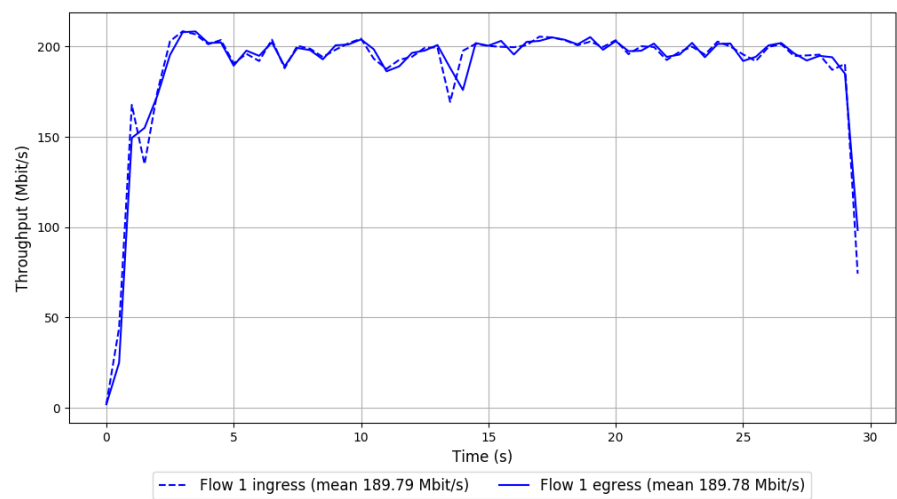
-- Flow 1:

Average throughput: 189.78 Mbit/s

95th percentile per-packet one-way delay: 63.489 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-10-11 07:17:56

End at: 2017-10-11 07:18:26

# Below is generated by plot.py at 2017-10-11 09:31:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.73 Mbit/s

95th percentile per-packet one-way delay: 63.485 ms

Loss rate: 0.00%

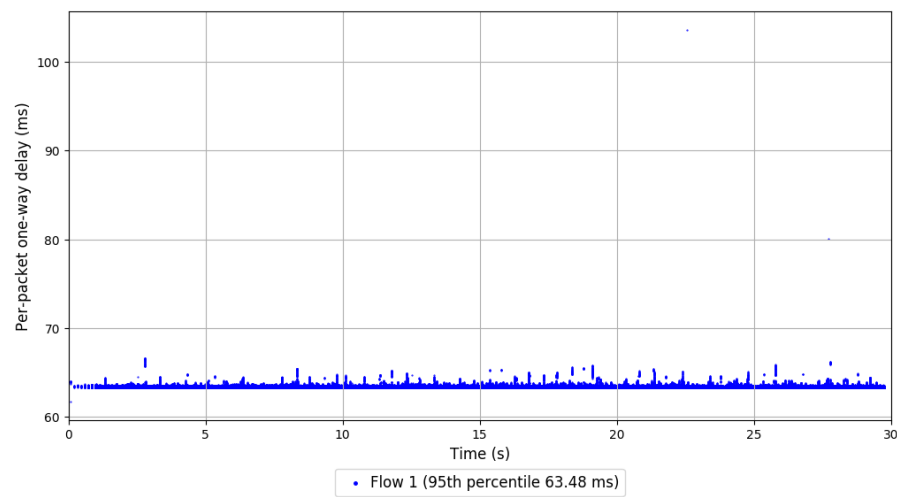
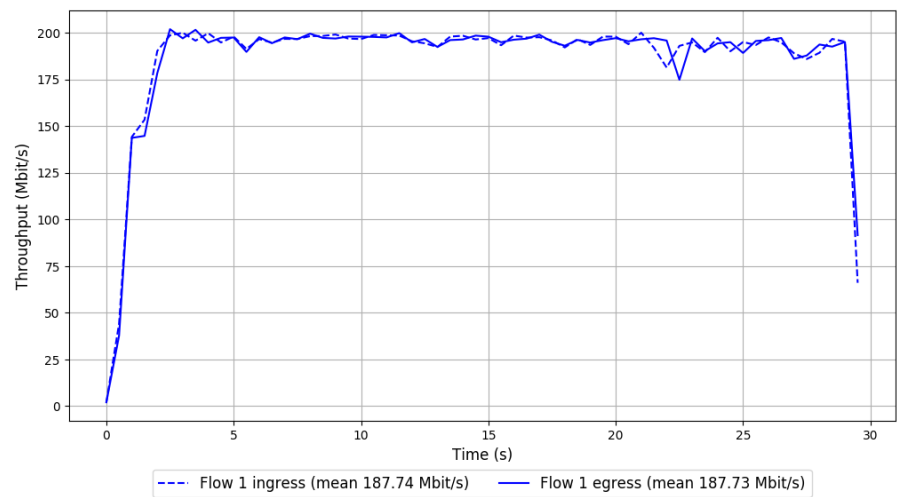
-- Flow 1:

Average throughput: 187.73 Mbit/s

95th percentile per-packet one-way delay: 63.485 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-10-11 07:28:33

End at: 2017-10-11 07:29:04

# Below is generated by plot.py at 2017-10-11 09:31:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 193.99 Mbit/s

95th percentile per-packet one-way delay: 63.501 ms

Loss rate: 0.00%

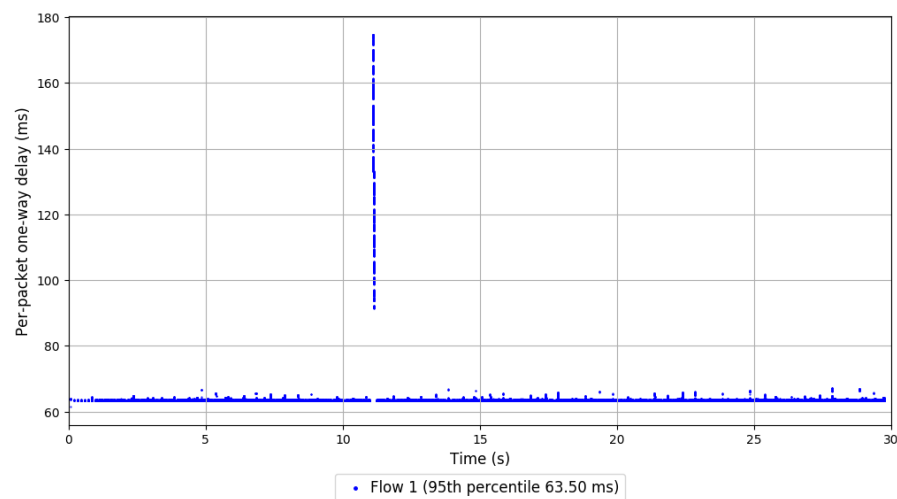
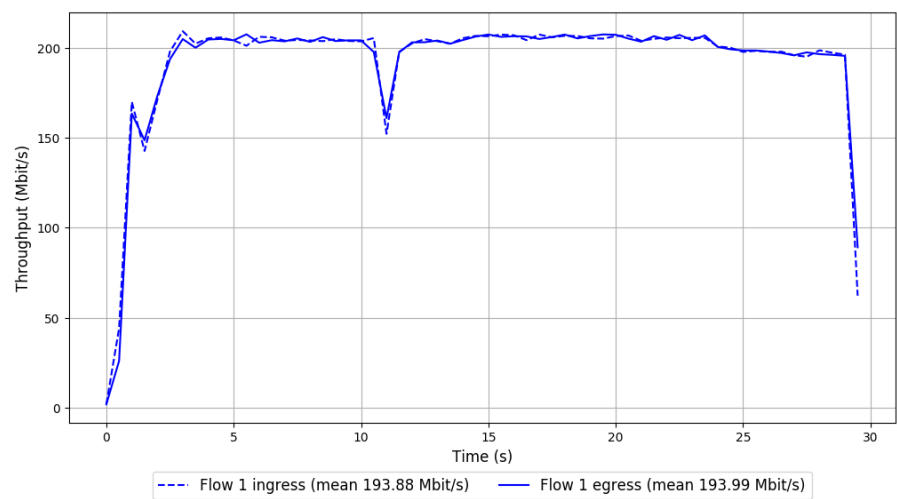
-- Flow 1:

Average throughput: 193.99 Mbit/s

95th percentile per-packet one-way delay: 63.501 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-10-11 07:39:24

End at: 2017-10-11 07:39:54

# Below is generated by plot.py at 2017-10-11 09:31:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 191.15 Mbit/s

95th percentile per-packet one-way delay: 63.531 ms

Loss rate: 0.00%

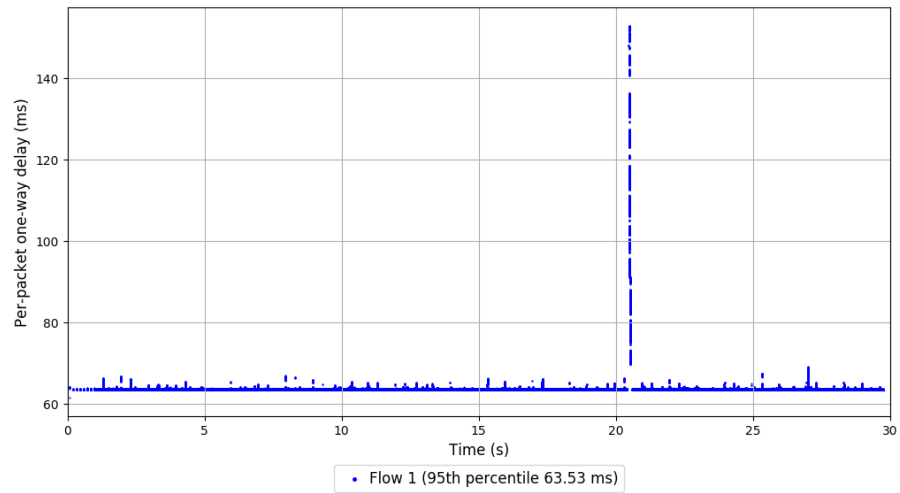
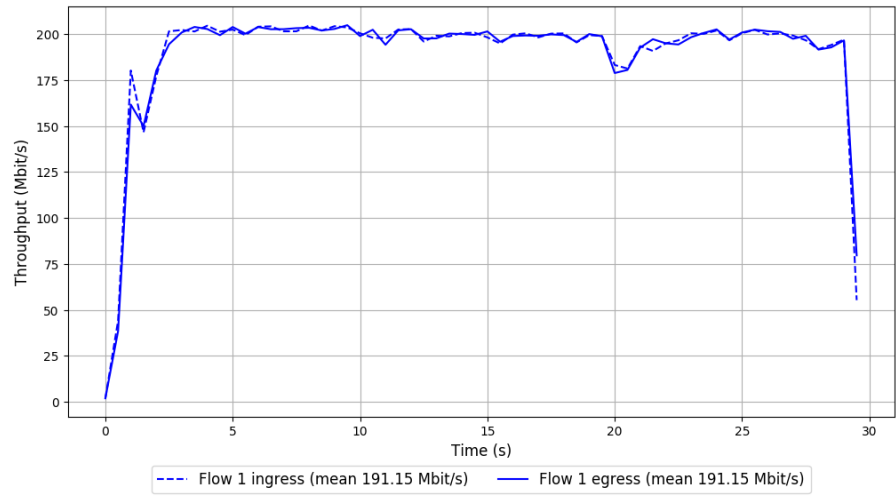
-- Flow 1:

Average throughput: 191.15 Mbit/s

95th percentile per-packet one-way delay: 63.531 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo

Start at: 2017-10-11 07:50:00

End at: 2017-10-11 07:50:30

# Below is generated by plot.py at 2017-10-11 09:31:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 191.84 Mbit/s

95th percentile per-packet one-way delay: 63.548 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 191.84 Mbit/s

95th percentile per-packet one-way delay: 63.548 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

