

## Pantheon Report

Generated at 2018-04-24 17:33:10 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

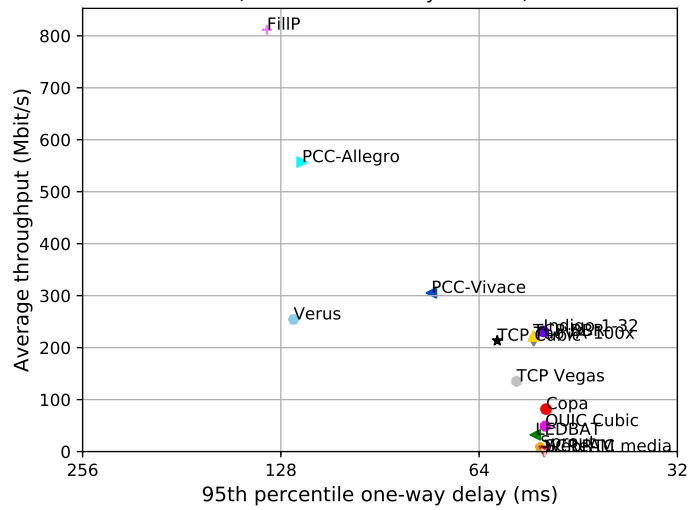
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

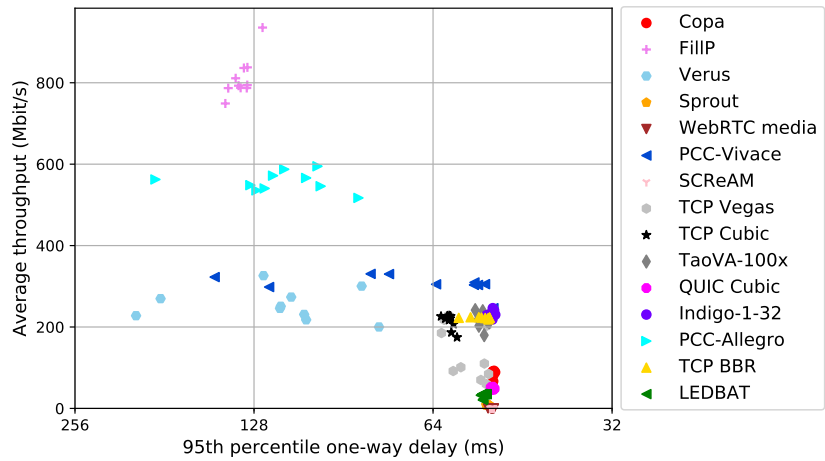
Git summary:

```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webRTC @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



test from GCE London Ethernet to GCE Iowa Ethernet, 10 runs of 30s each 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     | 222.41                           | 52.99                               | 0.32                         |
| TCP Cubic    | 10     | 213.37                           | 60.07                               | 0.28                         |
| LEDBAT       | 10     | 32.22                            | 52.60                               | 0.70                         |
| PCC-Allegro  | 10     | 557.00                           | 118.86                              | 0.93                         |
| QUIC Cubic   | 10     | 48.97                            | 50.80                               | 0.55                         |
| SCReAM       | 10     | 0.22                             | 50.88                               | 0.31                         |
| WebRTC media | 10     | 0.06                             | 50.98                               | 0.00                         |
| Sprout       | 10     | 7.94                             | 51.69                               | 0.30                         |
| TaoVA-100x   | 10     | 217.20                           | 52.88                               | 0.32                         |
| TCP Vegas    | 10     | 135.16                           | 56.15                               | 0.29                         |
| Verus        | 10     | 254.29                           | 122.46                              | 1.64                         |
| Copa         | 10     | 81.72                            | 50.66                               | 0.29                         |
| FillP        | 10     | 811.83                           | 134.39                              | 6.65                         |
| Indigo-1-32  | 10     | 231.22                           | 51.11                               | 0.33                         |
| PCC-Vivace   | 10     | 305.37                           | 75.65                               | 0.51                         |
| PCC-Expr     | 0      | N/A                              | N/A                                 | N/A                          |

Run 1: Statistics of TCP BBR

Start at: 2018-04-24 11:54:16

End at: 2018-04-24 11:54:46

# Below is generated by plot.py at 2018-04-24 16:20:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.96 Mbit/s

95th percentile per-packet one-way delay: 55.349 ms

Loss rate: 0.00%

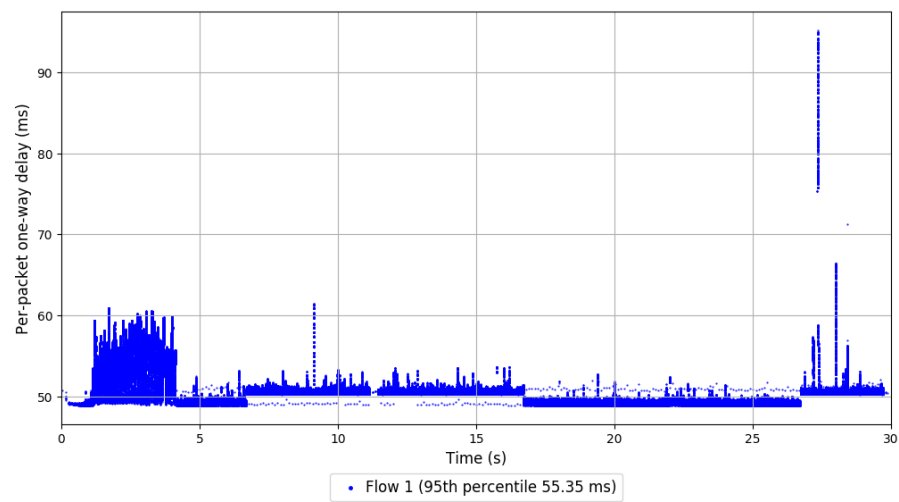
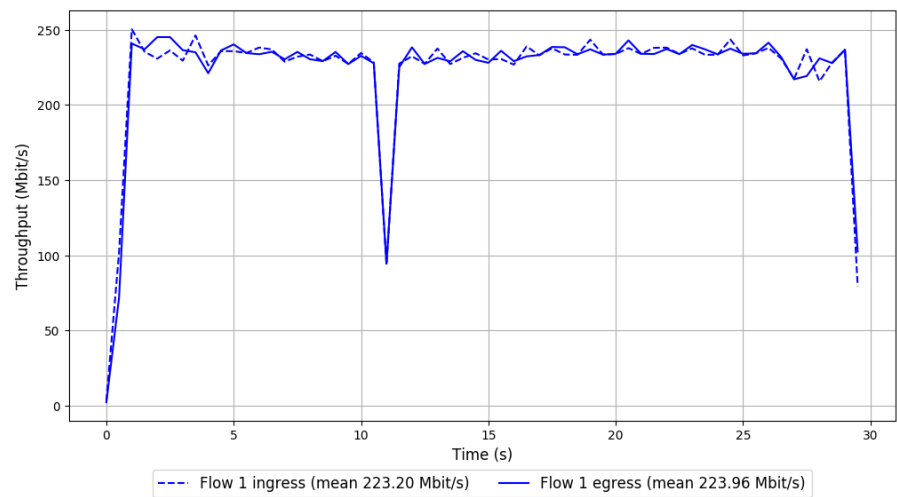
-- Flow 1:

Average throughput: 223.96 Mbit/s

95th percentile per-packet one-way delay: 55.349 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-24 12:07:22

End at: 2018-04-24 12:07:52

# Below is generated by plot.py at 2018-04-24 16:20:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.24 Mbit/s

95th percentile per-packet one-way delay: 53.048 ms

Loss rate: 0.35%

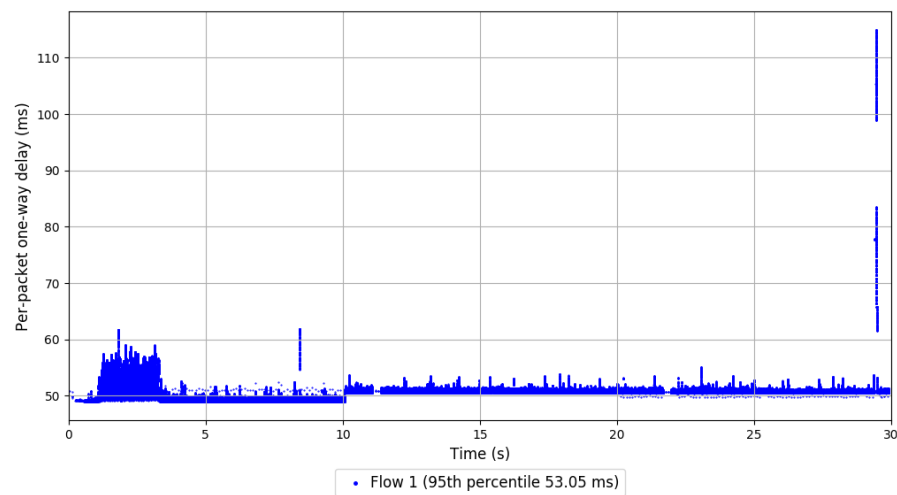
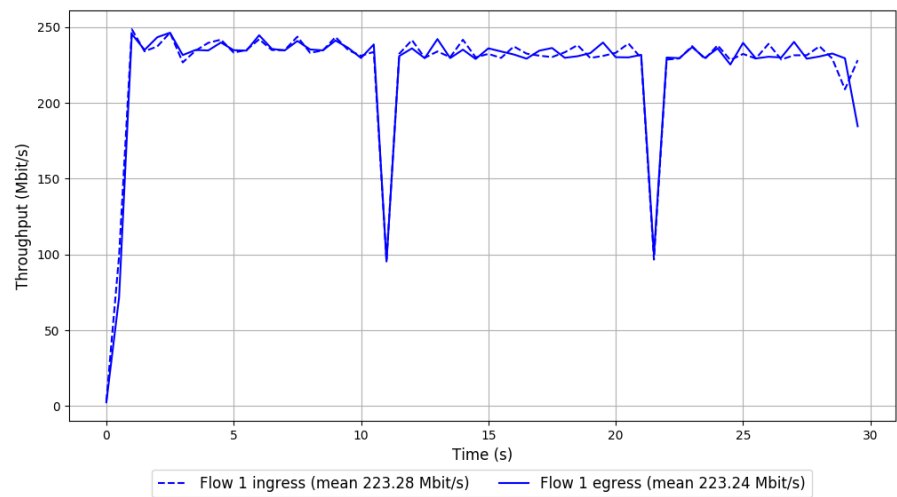
-- Flow 1:

Average throughput: 223.24 Mbit/s

95th percentile per-packet one-way delay: 53.048 ms

Loss rate: 0.35%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-24 12:20:34

End at: 2018-04-24 12:21:04

# Below is generated by plot.py at 2018-04-24 16:20:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.09 Mbit/s

95th percentile per-packet one-way delay: 51.416 ms

Loss rate: 0.35%

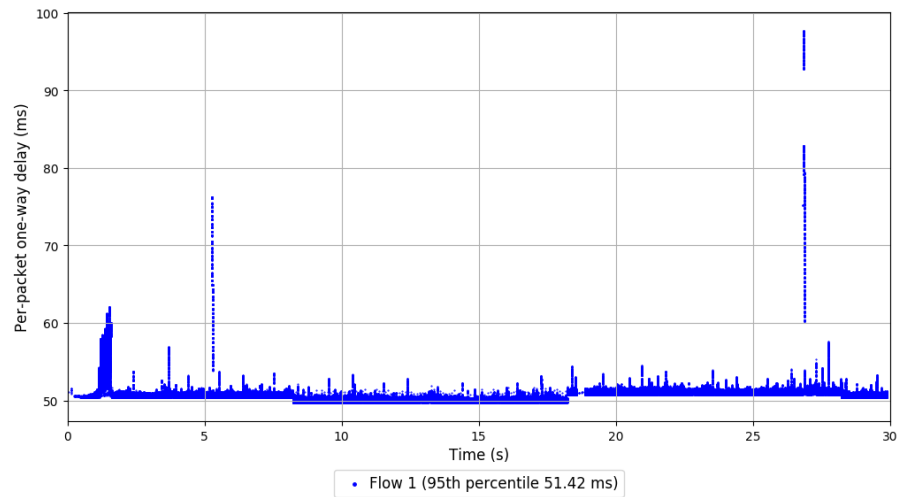
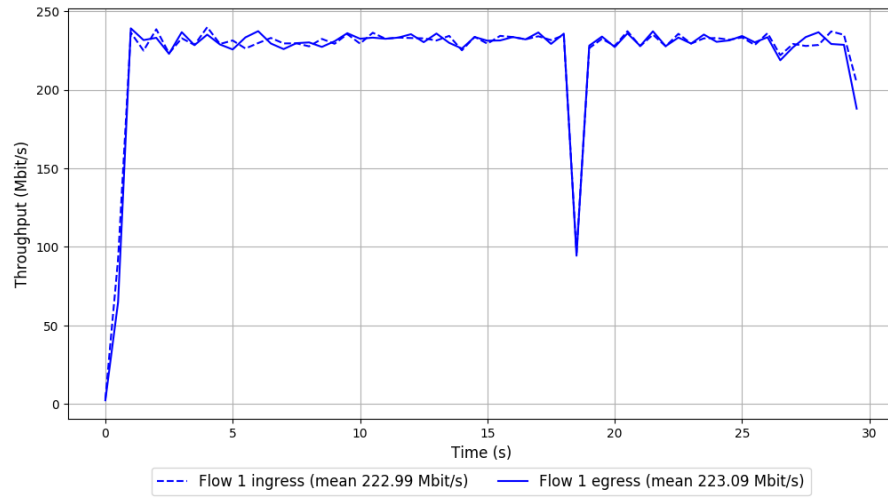
-- Flow 1:

Average throughput: 223.09 Mbit/s

95th percentile per-packet one-way delay: 51.416 ms

Loss rate: 0.35%

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



Run 4: Statistics of TCP BBR

Start at: 2018-04-24 12:33:53

End at: 2018-04-24 12:34:23

# Below is generated by plot.py at 2018-04-24 16:20:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 221.96 Mbit/s

95th percentile per-packet one-way delay: 52.299 ms

Loss rate: 0.34%

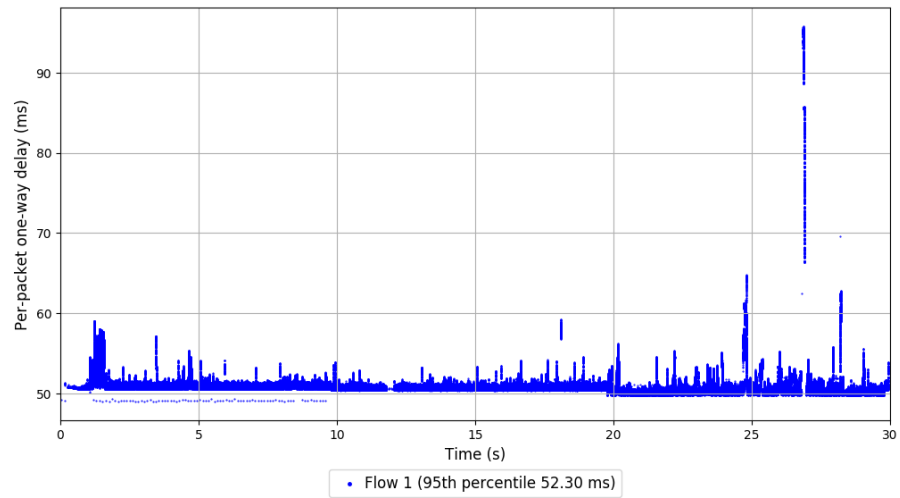
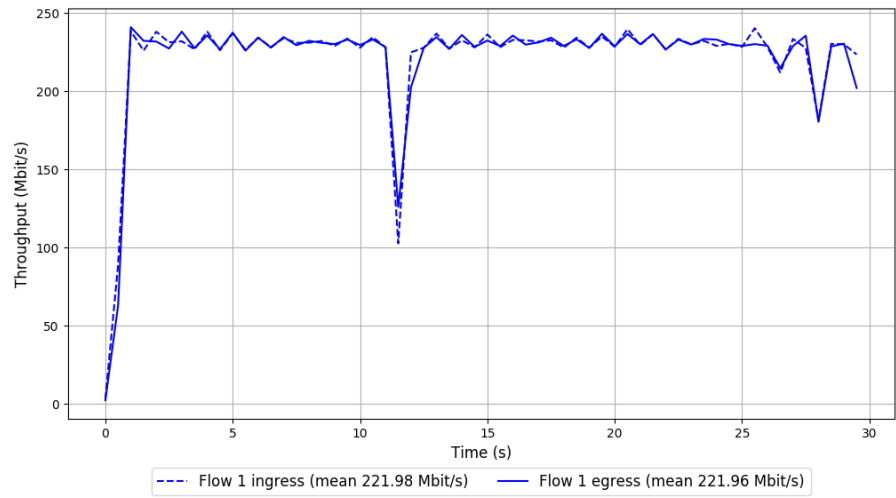
-- Flow 1:

Average throughput: 221.96 Mbit/s

95th percentile per-packet one-way delay: 52.299 ms

Loss rate: 0.34%

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



Run 5: Statistics of TCP BBR

Start at: 2018-04-24 12:47:03

End at: 2018-04-24 12:47:33

# Below is generated by plot.py at 2018-04-24 16:20:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 221.44 Mbit/s

95th percentile per-packet one-way delay: 51.753 ms

Loss rate: 0.35%

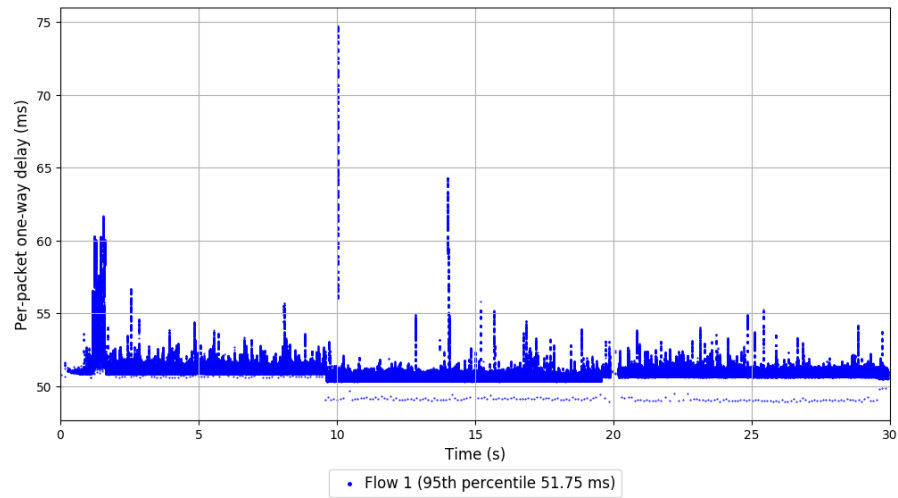
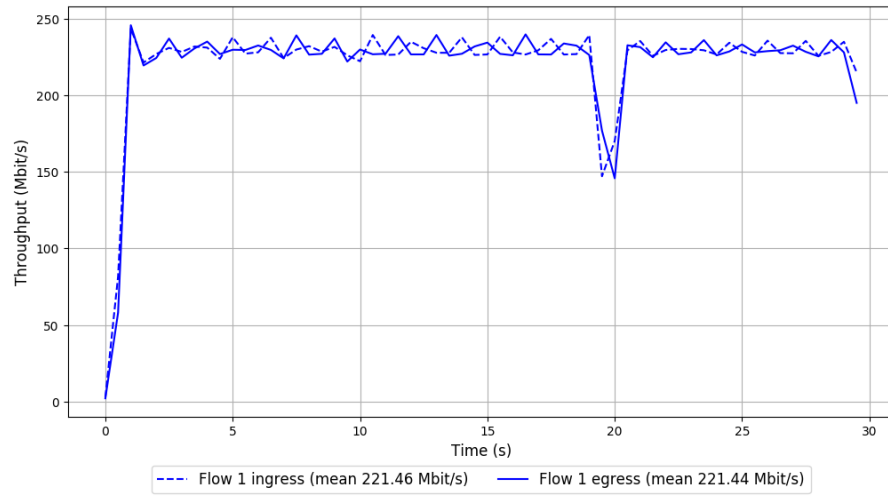
-- Flow 1:

Average throughput: 221.44 Mbit/s

95th percentile per-packet one-way delay: 51.753 ms

Loss rate: 0.35%

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



Run 6: Statistics of TCP BBR

Start at: 2018-04-24 13:00:15

End at: 2018-04-24 13:00:45

# Below is generated by plot.py at 2018-04-24 16:20:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 224.14 Mbit/s

95th percentile per-packet one-way delay: 53.609 ms

Loss rate: 0.34%

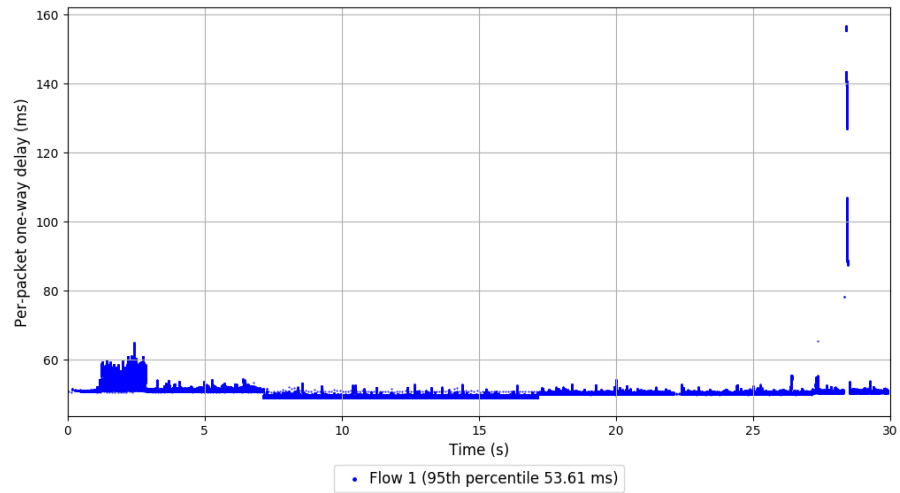
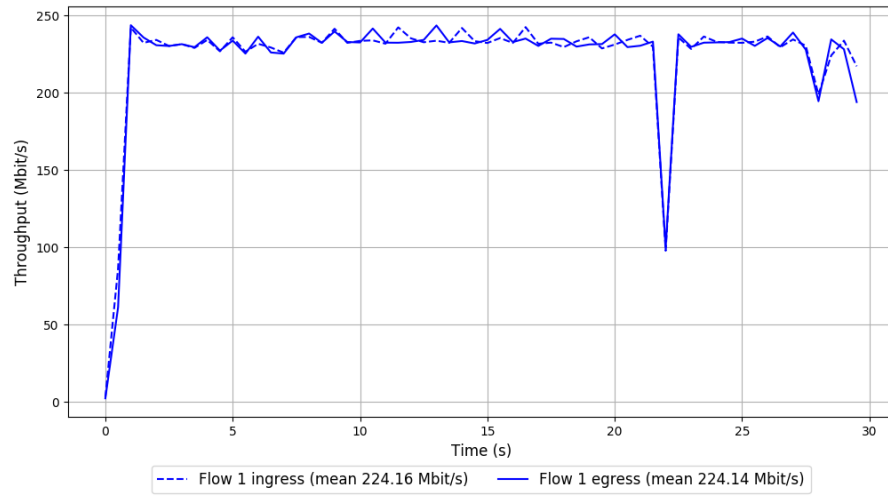
-- Flow 1:

Average throughput: 224.14 Mbit/s

95th percentile per-packet one-way delay: 53.609 ms

Loss rate: 0.34%

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



Run 7: Statistics of TCP BBR

Start at: 2018-04-24 13:13:31

End at: 2018-04-24 13:14:01

# Below is generated by plot.py at 2018-04-24 16:20:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 218.60 Mbit/s

95th percentile per-packet one-way delay: 51.625 ms

Loss rate: 0.35%

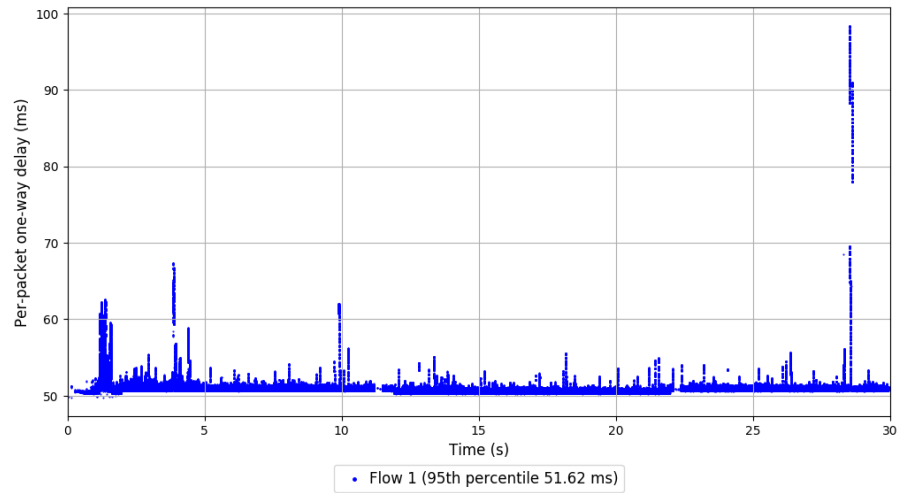
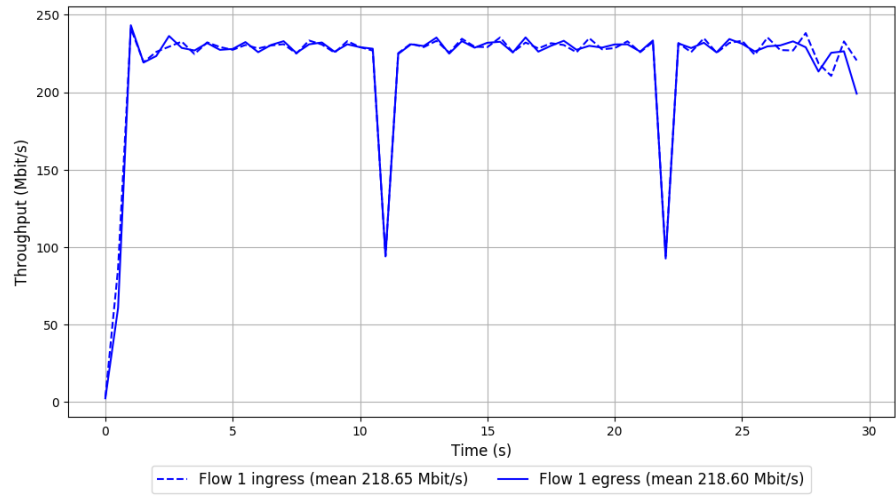
-- Flow 1:

Average throughput: 218.60 Mbit/s

95th percentile per-packet one-way delay: 51.625 ms

Loss rate: 0.35%

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



Run 8: Statistics of TCP BBR

Start at: 2018-04-24 13:26:50

End at: 2018-04-24 13:27:20

# Below is generated by plot.py at 2018-04-24 16:20:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.06 Mbit/s

95th percentile per-packet one-way delay: 51.462 ms

Loss rate: 0.36%

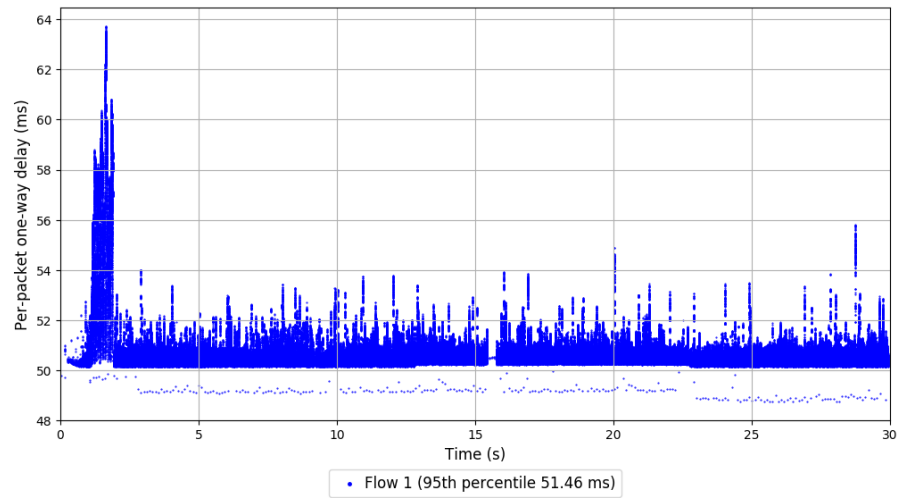
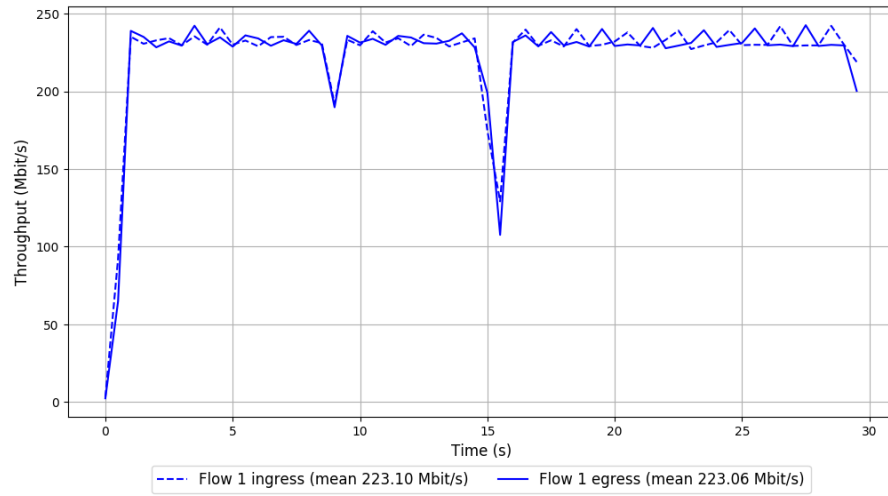
-- Flow 1:

Average throughput: 223.06 Mbit/s

95th percentile per-packet one-way delay: 51.462 ms

Loss rate: 0.36%

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



Run 9: Statistics of TCP BBR

Start at: 2018-04-24 13:40:05

End at: 2018-04-24 13:40:35

# Below is generated by plot.py at 2018-04-24 16:24:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 222.07 Mbit/s

95th percentile per-packet one-way delay: 51.425 ms

Loss rate: 0.34%

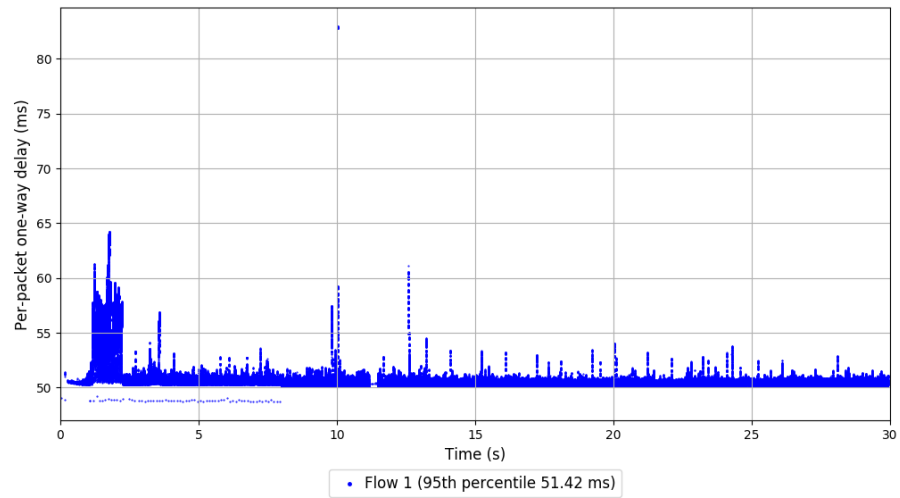
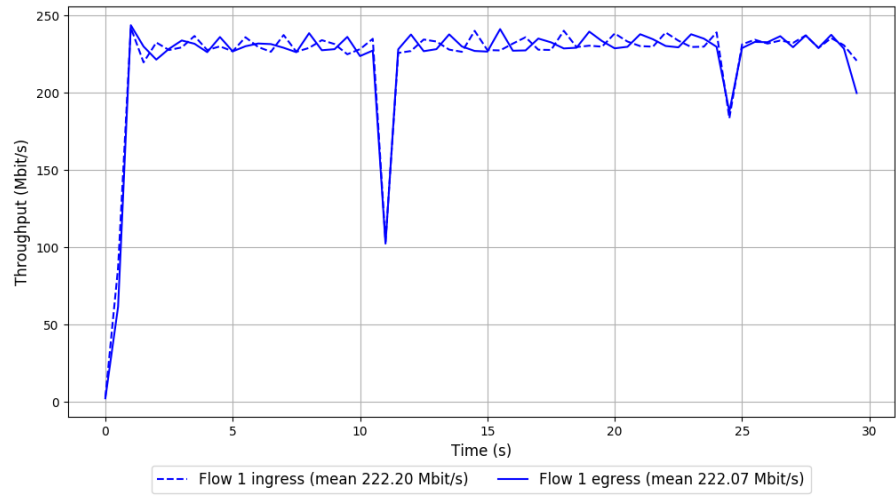
-- Flow 1:

Average throughput: 222.07 Mbit/s

95th percentile per-packet one-way delay: 51.425 ms

Loss rate: 0.34%

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



Run 10: Statistics of TCP BBR

Start at: 2018-04-24 13:53:19

End at: 2018-04-24 13:53:49

# Below is generated by plot.py at 2018-04-24 16:24:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 222.51 Mbit/s

95th percentile per-packet one-way delay: 57.944 ms

Loss rate: 0.37%

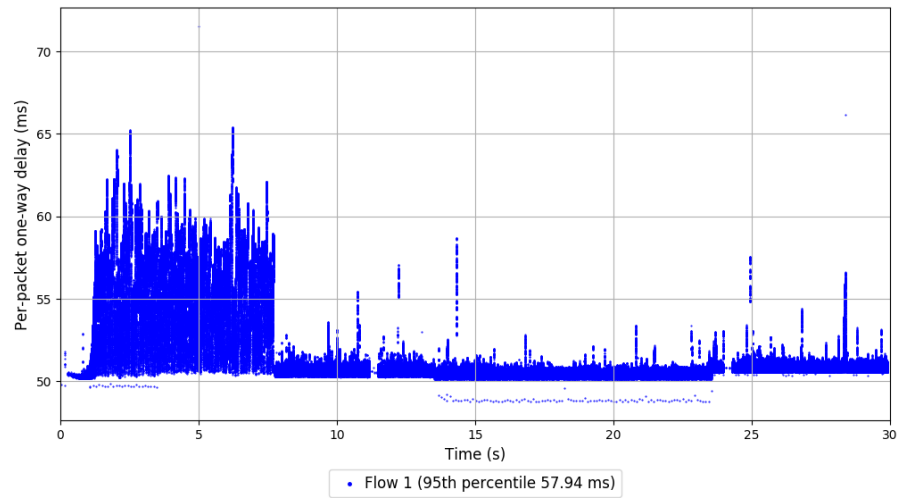
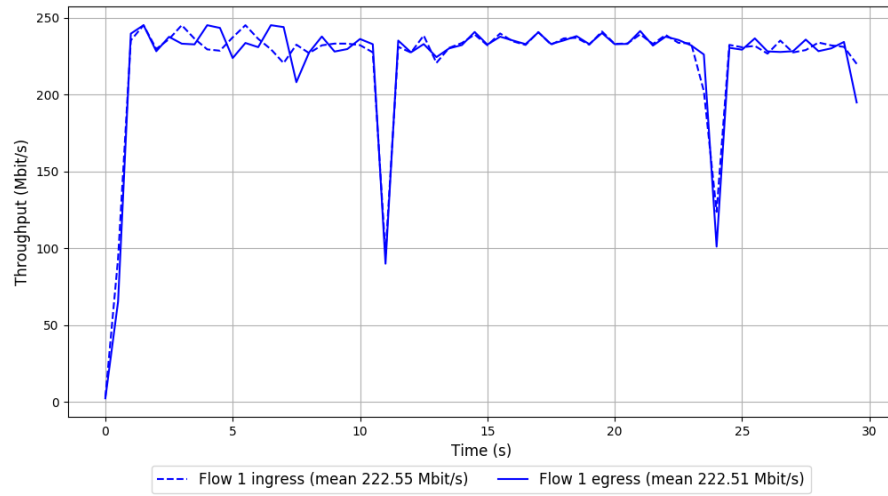
-- Flow 1:

Average throughput: 222.51 Mbit/s

95th percentile per-packet one-way delay: 57.944 ms

Loss rate: 0.37%

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



Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 11:49:06

End at: 2018-04-24 11:49:36

# Below is generated by plot.py at 2018-04-24 16:24:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 174.64 Mbit/s

95th percentile per-packet one-way delay: 58.318 ms

Loss rate: 0.39%

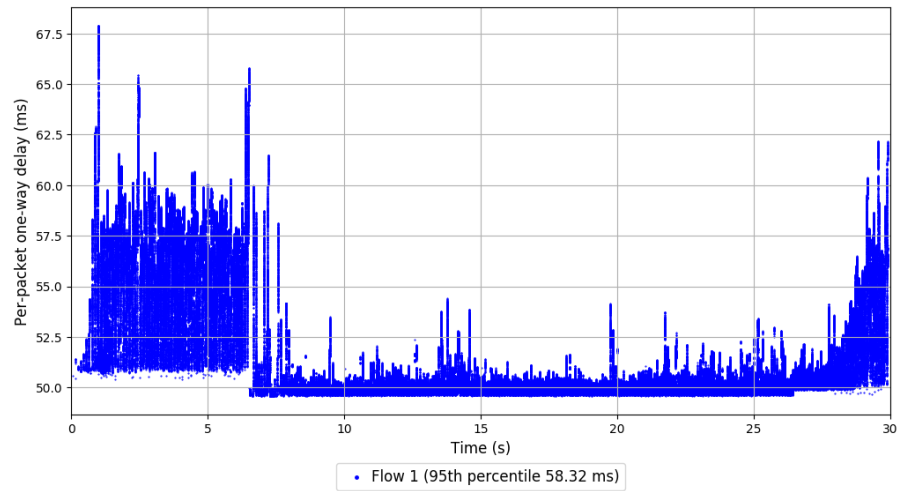
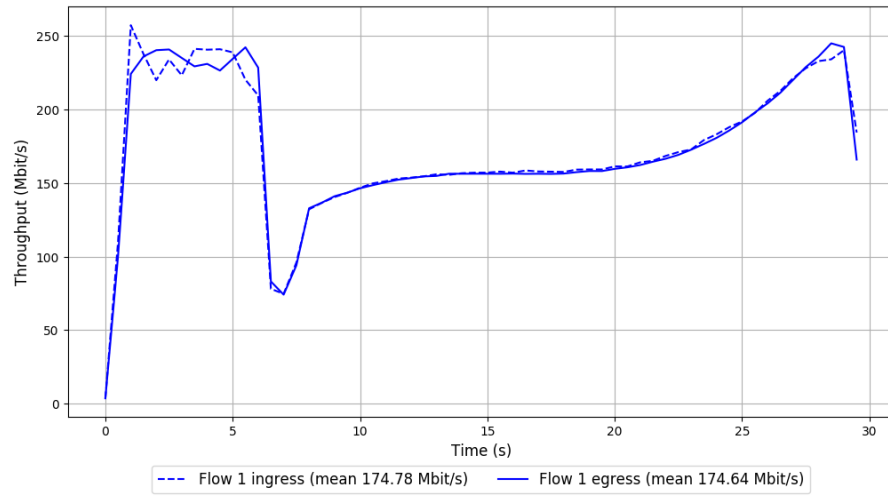
-- Flow 1:

Average throughput: 174.64 Mbit/s

95th percentile per-packet one-way delay: 58.318 ms

Loss rate: 0.39%

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



Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 12:02:14

End at: 2018-04-24 12:02:44

# Below is generated by plot.py at 2018-04-24 16:24:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 207.00 Mbit/s

95th percentile per-packet one-way delay: 59.136 ms

Loss rate: 0.25%

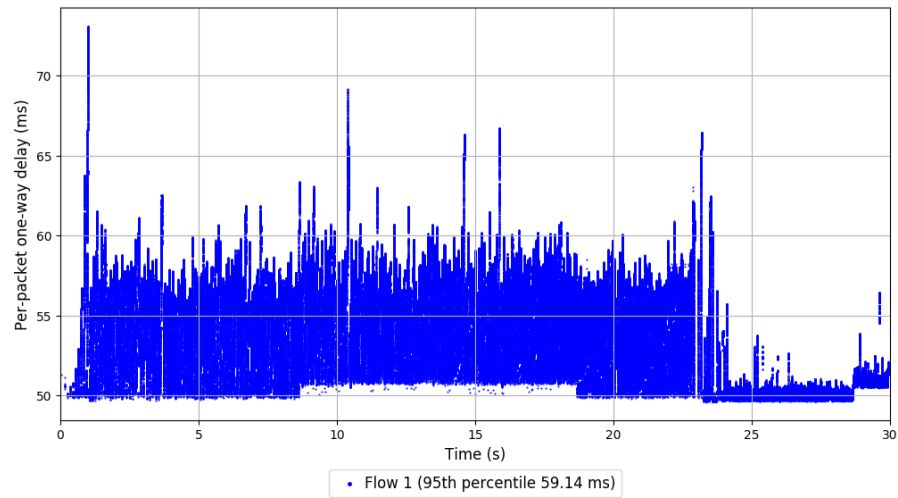
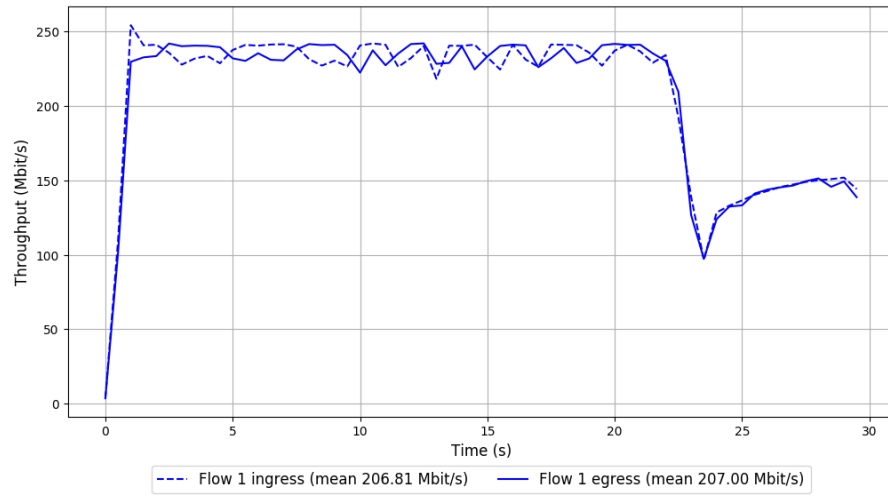
-- Flow 1:

Average throughput: 207.00 Mbit/s

95th percentile per-packet one-way delay: 59.136 ms

Loss rate: 0.25%

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



Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 12:15:27

End at: 2018-04-24 12:15:57

# Below is generated by plot.py at 2018-04-24 16:24:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 227.38 Mbit/s

95th percentile per-packet one-way delay: 60.089 ms

Loss rate: 0.18%

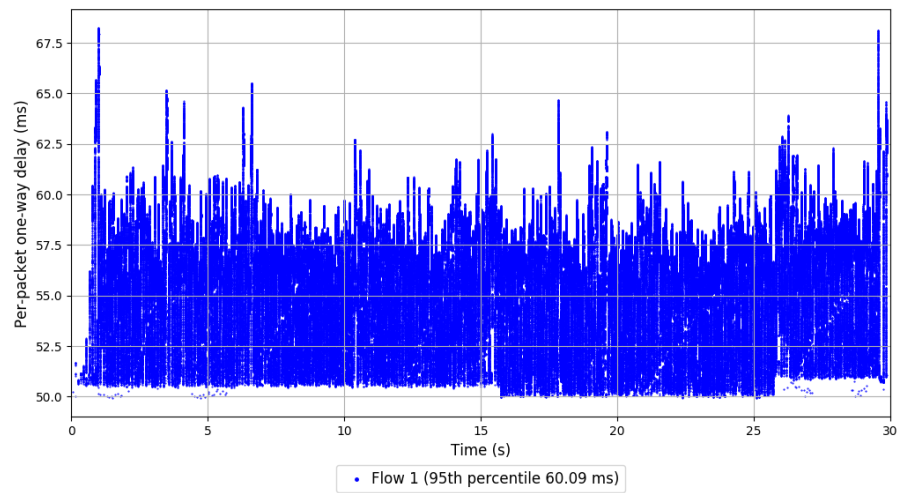
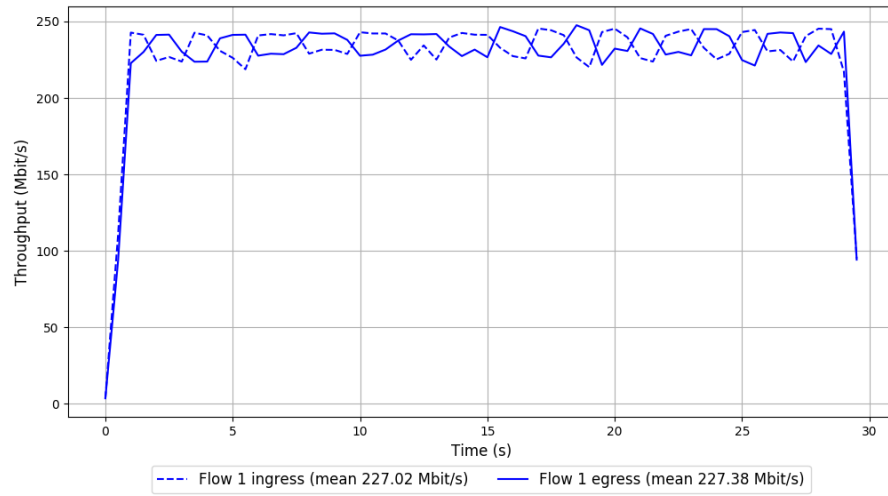
-- Flow 1:

Average throughput: 227.38 Mbit/s

95th percentile per-packet one-way delay: 60.089 ms

Loss rate: 0.18%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 12:28:44

End at: 2018-04-24 12:29:14

# Below is generated by plot.py at 2018-04-24 16:24:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.03 Mbit/s

95th percentile per-packet one-way delay: 60.149 ms

Loss rate: 0.22%

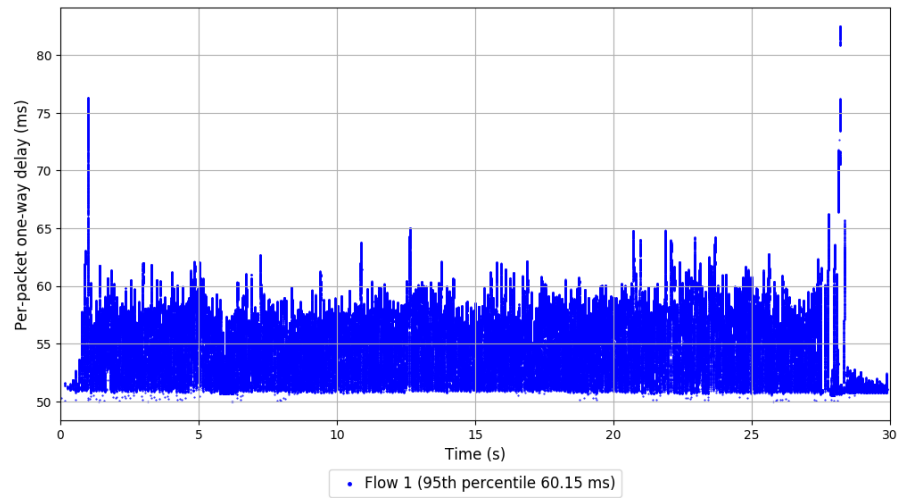
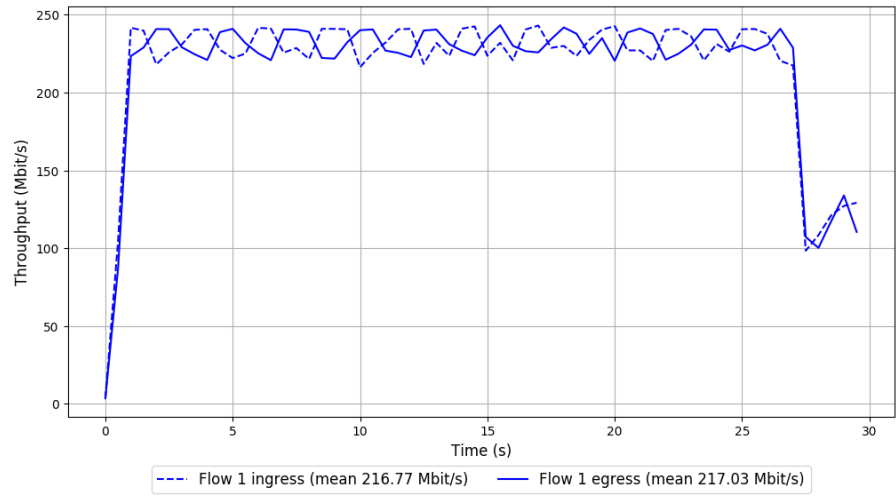
-- Flow 1:

Average throughput: 217.03 Mbit/s

95th percentile per-packet one-way delay: 60.149 ms

Loss rate: 0.22%

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



Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 12:41:53

End at: 2018-04-24 12:42:23

# Below is generated by plot.py at 2018-04-24 16:24:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 220.74 Mbit/s

95th percentile per-packet one-way delay: 61.035 ms

Loss rate: 0.31%

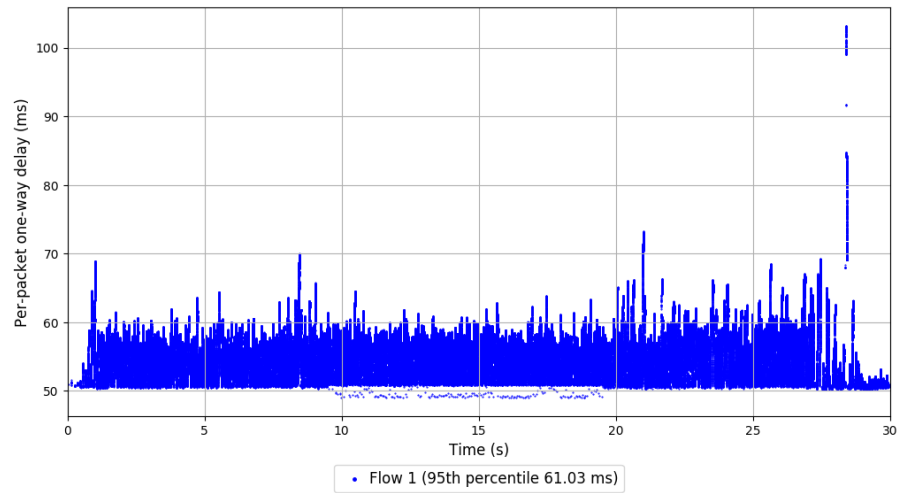
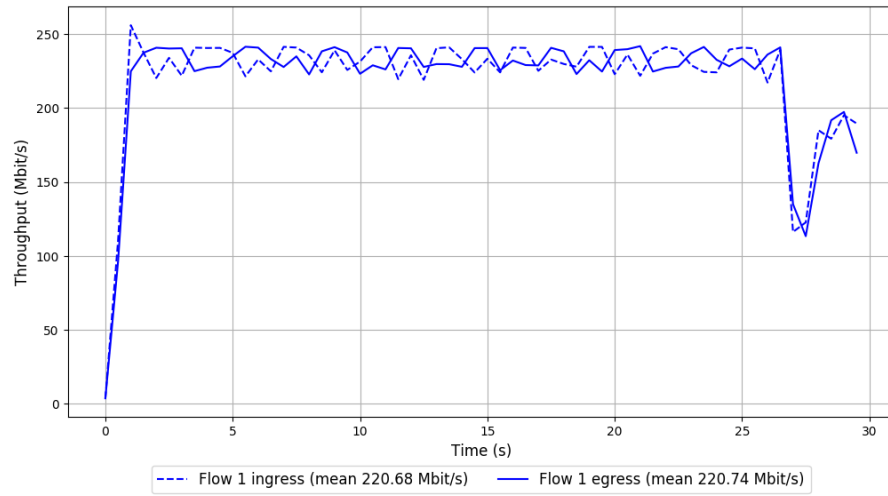
-- Flow 1:

Average throughput: 220.74 Mbit/s

95th percentile per-packet one-way delay: 61.035 ms

Loss rate: 0.31%

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



Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 12:55:06

End at: 2018-04-24 12:55:36

# Below is generated by plot.py at 2018-04-24 16:24:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 226.16 Mbit/s

95th percentile per-packet one-way delay: 62.053 ms

Loss rate: 0.12%

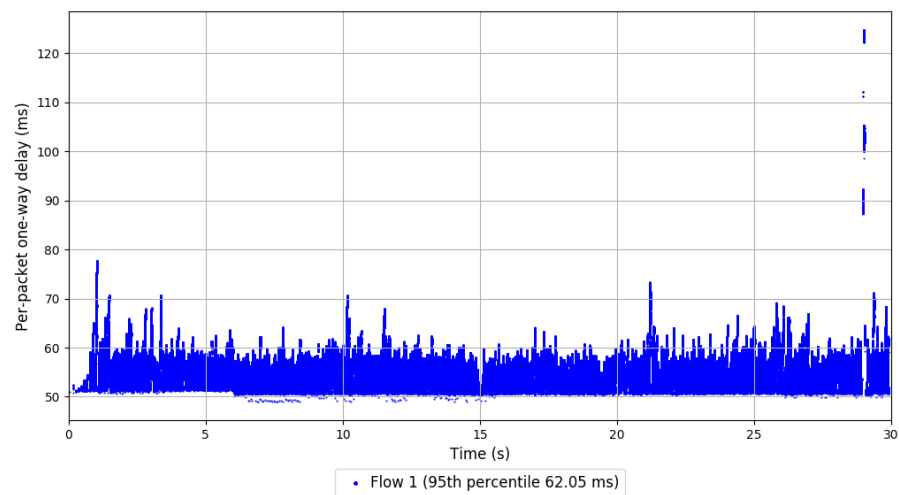
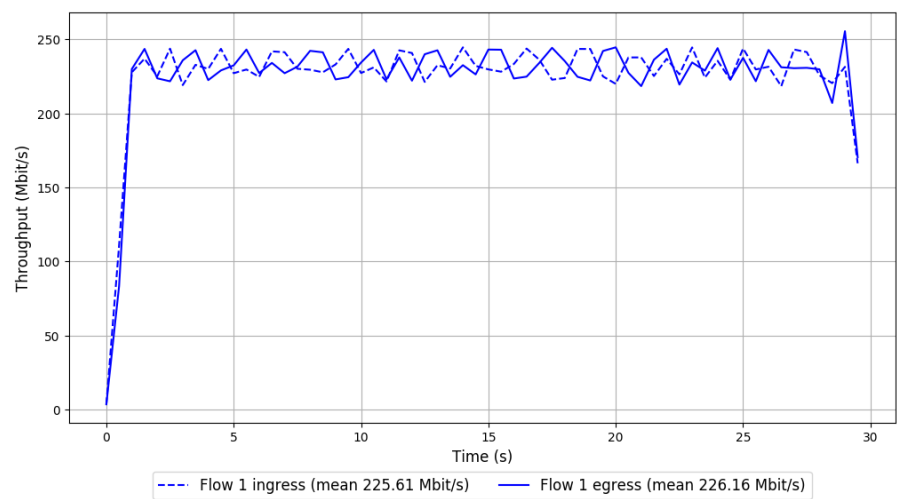
-- Flow 1:

Average throughput: 226.16 Mbit/s

95th percentile per-packet one-way delay: 62.053 ms

Loss rate: 0.12%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 13:08:23

End at: 2018-04-24 13:08:53

# Below is generated by plot.py at 2018-04-24 16:27:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 220.86 Mbit/s

95th percentile per-packet one-way delay: 59.904 ms

Loss rate: 0.30%

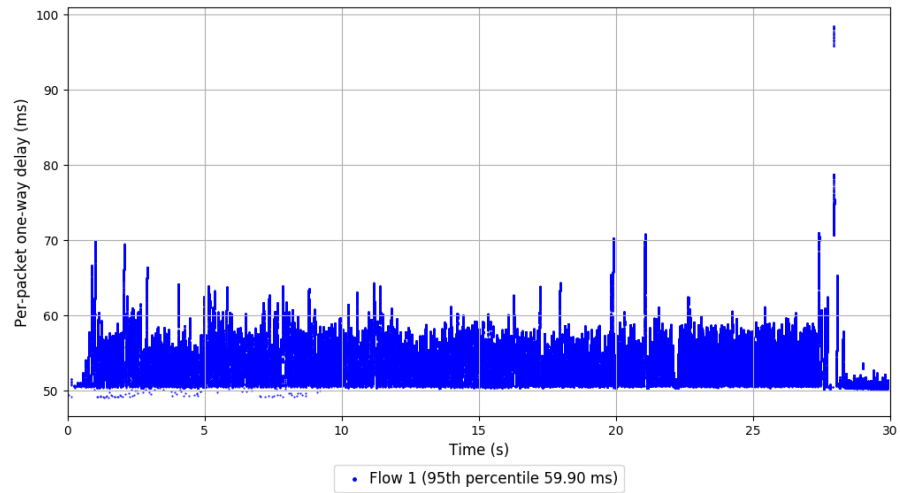
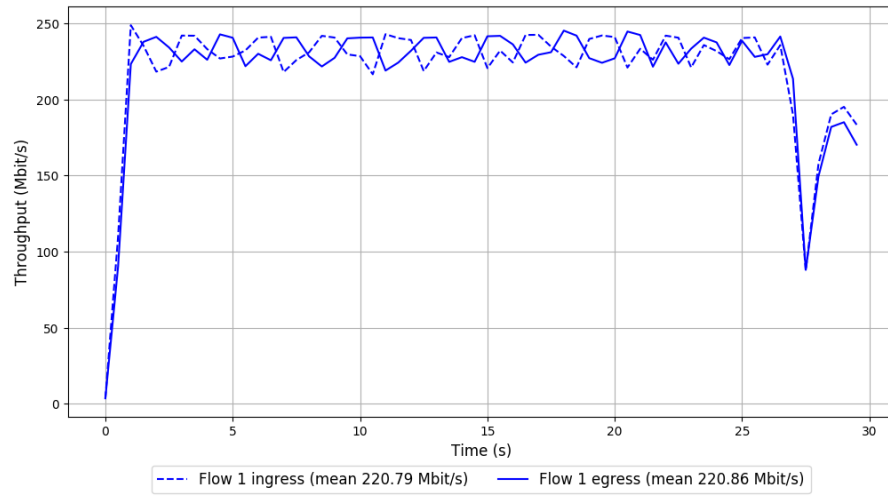
-- Flow 1:

Average throughput: 220.86 Mbit/s

95th percentile per-packet one-way delay: 59.904 ms

Loss rate: 0.30%

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



Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 13:21:39

End at: 2018-04-24 13:22:09

# Below is generated by plot.py at 2018-04-24 16:28:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 226.52 Mbit/s

95th percentile per-packet one-way delay: 59.808 ms

Loss rate: 0.36%

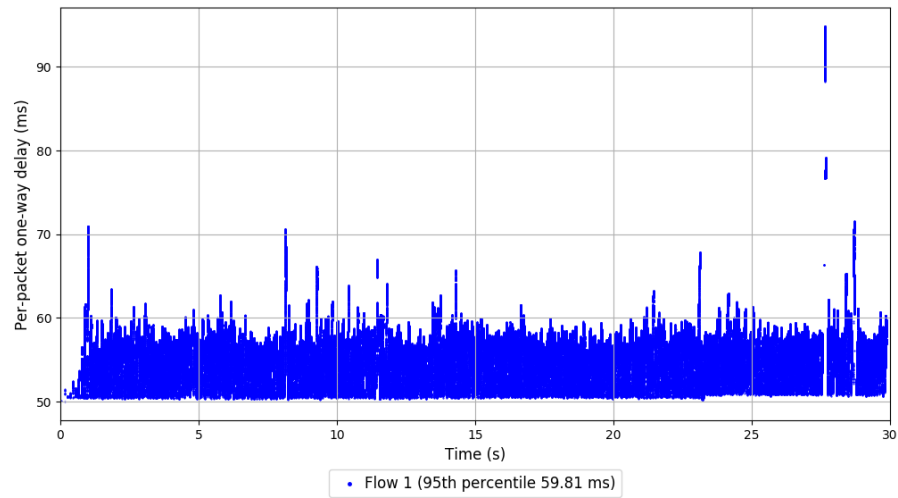
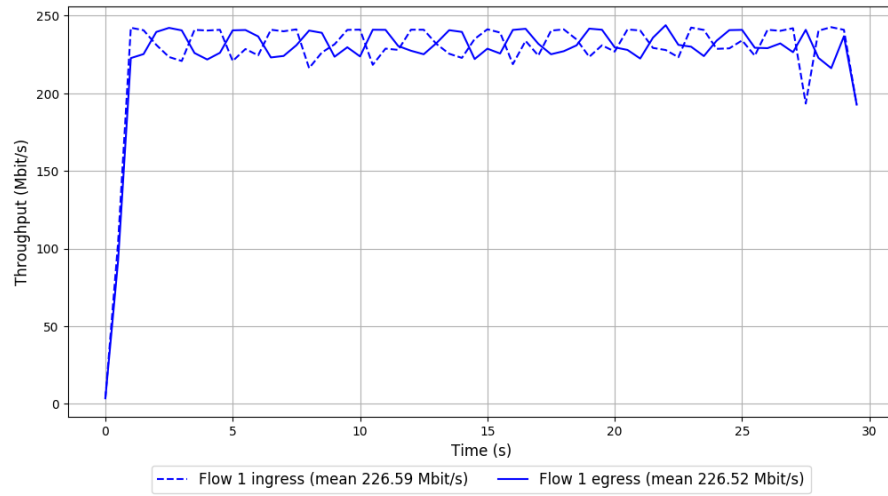
-- Flow 1:

Average throughput: 226.52 Mbit/s

95th percentile per-packet one-way delay: 59.808 ms

Loss rate: 0.36%

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



Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 13:34:58

End at: 2018-04-24 13:35:28

# Below is generated by plot.py at 2018-04-24 16:28:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 186.63 Mbit/s

95th percentile per-packet one-way delay: 59.616 ms

Loss rate: 0.29%

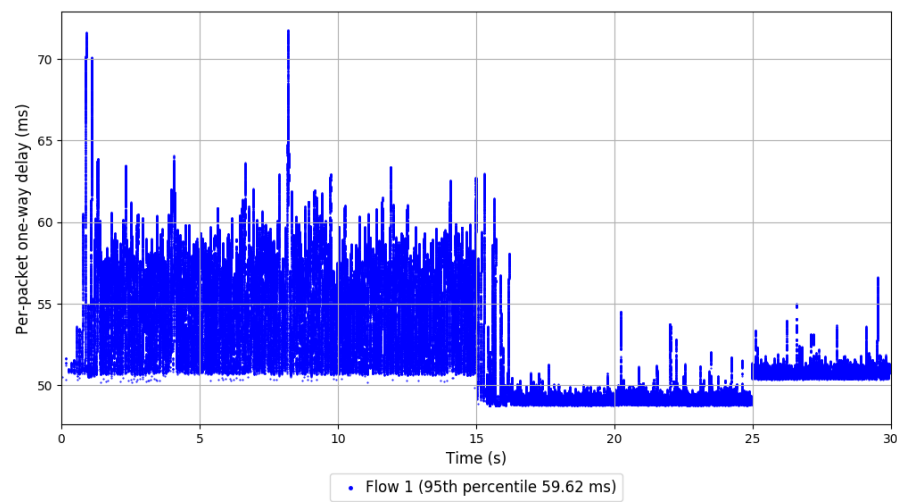
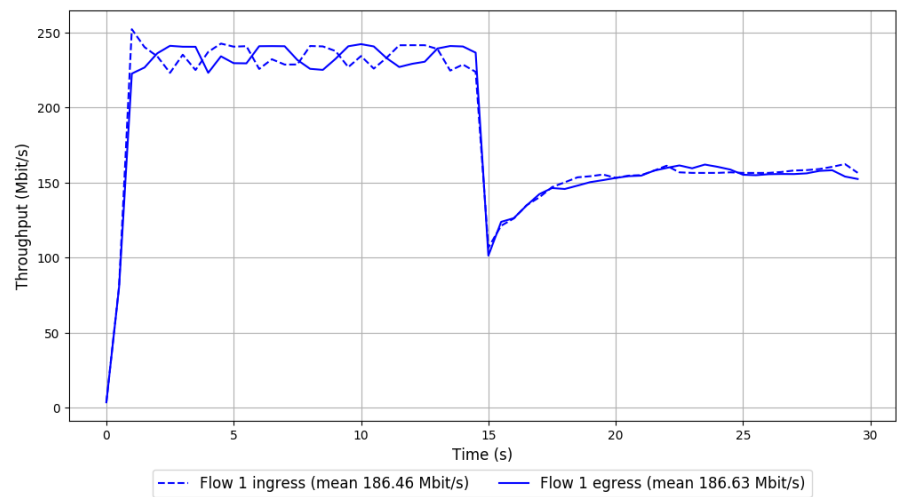
-- Flow 1:

Average throughput: 186.63 Mbit/s

95th percentile per-packet one-way delay: 59.616 ms

Loss rate: 0.29%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-24 13:48:09

End at: 2018-04-24 13:48:39

# Below is generated by plot.py at 2018-04-24 16:28:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 226.74 Mbit/s

95th percentile per-packet one-way delay: 60.562 ms

Loss rate: 0.36%

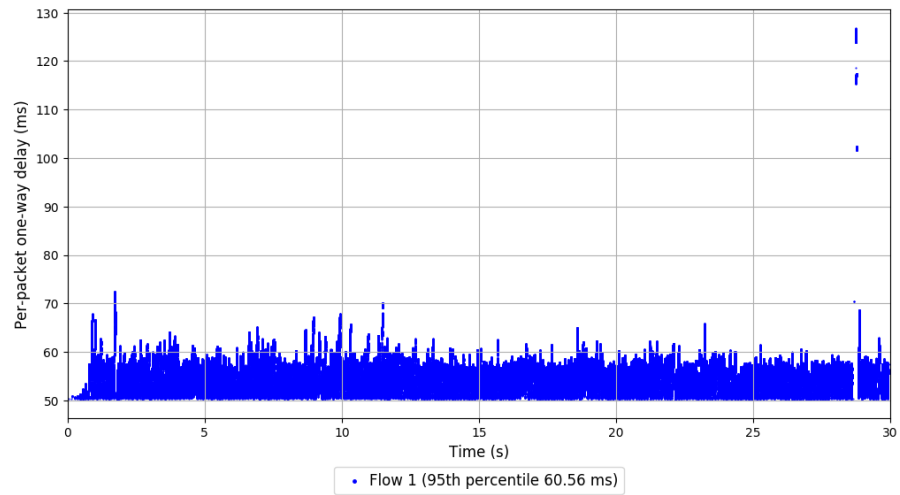
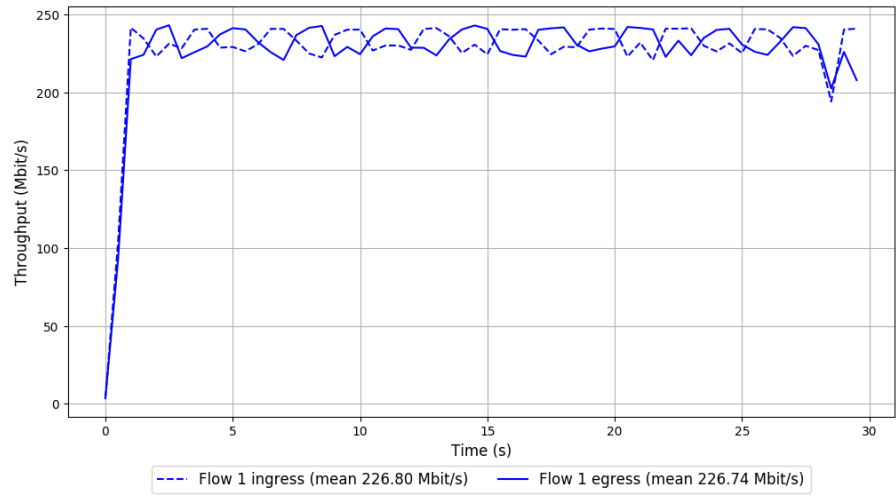
-- Flow 1:

Average throughput: 226.74 Mbit/s

95th percentile per-packet one-way delay: 60.562 ms

Loss rate: 0.36%

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

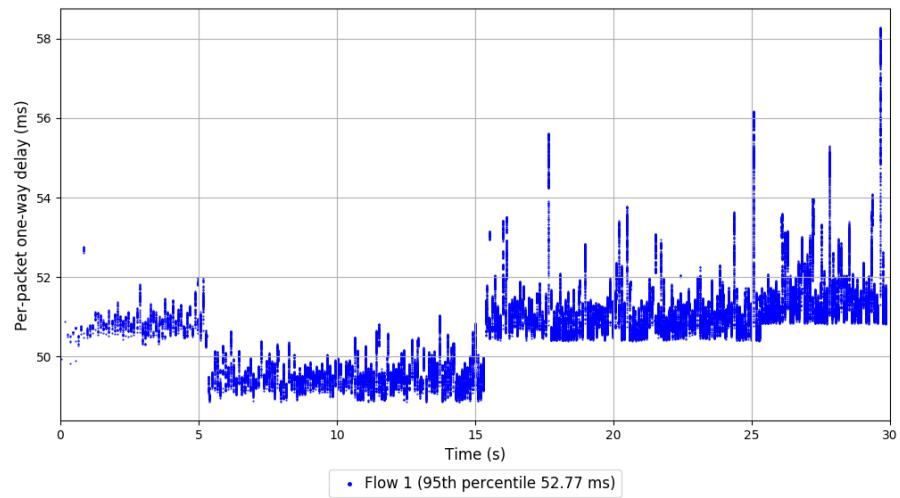
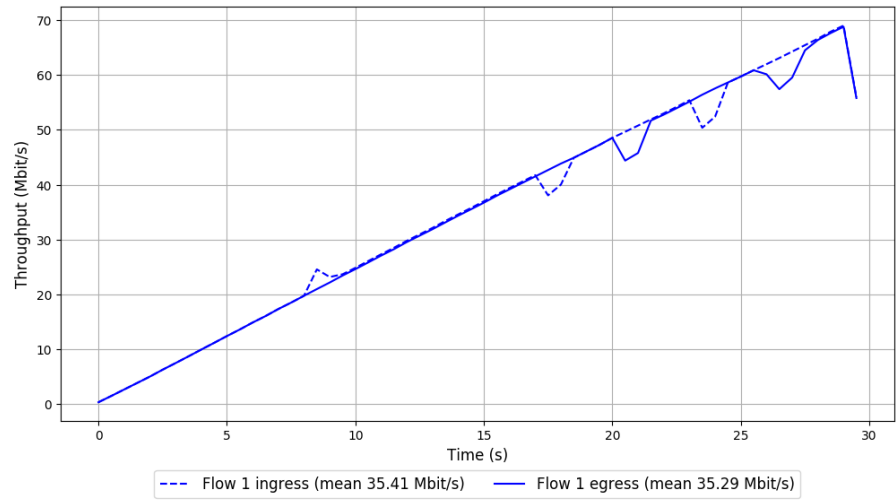


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 11:48:27
End at: 2018-04-24 11:48:57

# Below is generated by plot.py at 2018-04-24 16:28:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.29 Mbit/s
95th percentile per-packet one-way delay: 52.771 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 35.29 Mbit/s
95th percentile per-packet one-way delay: 52.771 ms
Loss rate: 0.66%
```

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-24 12:01:35

End at: 2018-04-24 12:02:05

# Below is generated by plot.py at 2018-04-24 16:28:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 23.48 Mbit/s

95th percentile per-packet one-way delay: 52.654 ms

Loss rate: 0.82%

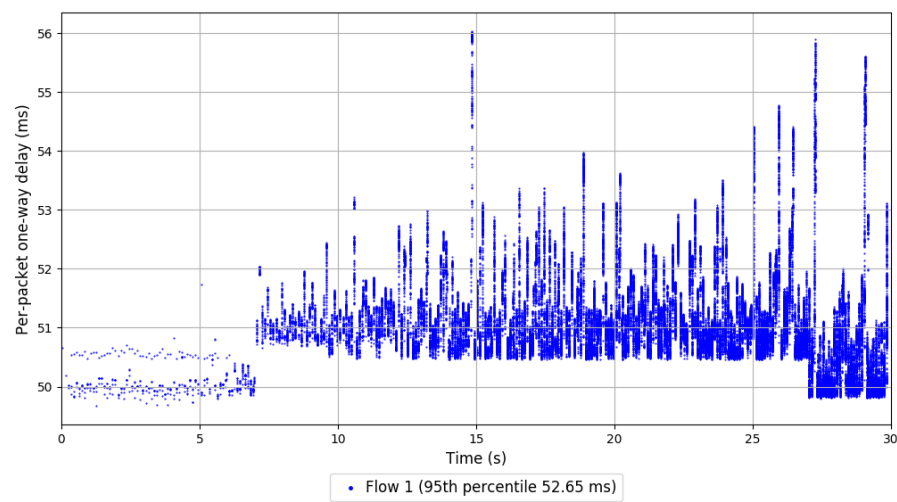
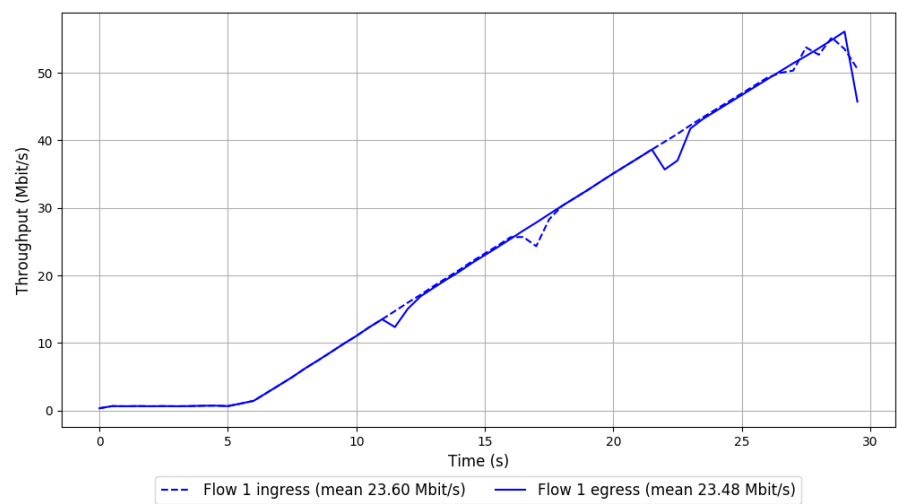
-- Flow 1:

Average throughput: 23.48 Mbit/s

95th percentile per-packet one-way delay: 52.654 ms

Loss rate: 0.82%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-24 12:14:48

End at: 2018-04-24 12:15:18

# Below is generated by plot.py at 2018-04-24 16:28:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.37 Mbit/s

95th percentile per-packet one-way delay: 52.931 ms

Loss rate: 0.67%

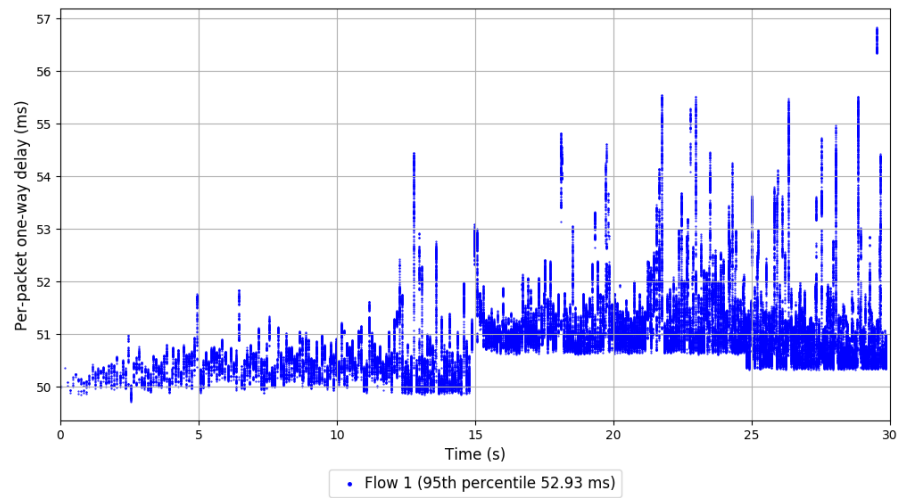
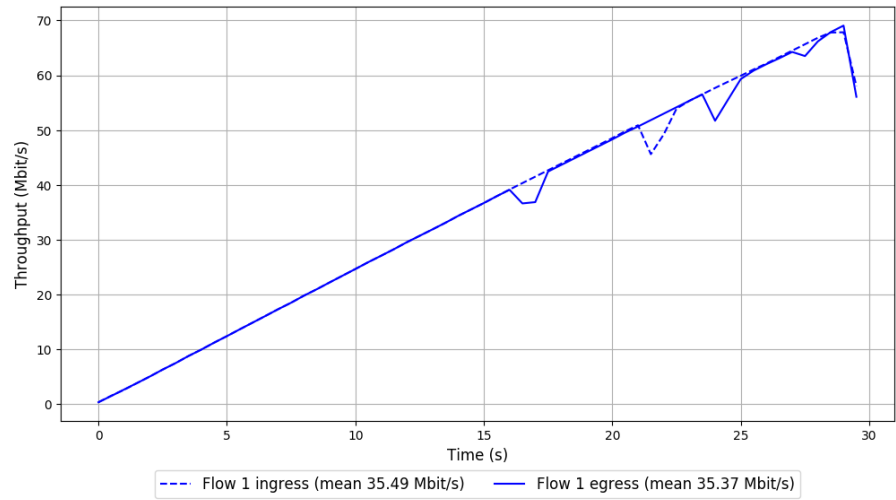
-- Flow 1:

Average throughput: 35.37 Mbit/s

95th percentile per-packet one-way delay: 52.931 ms

Loss rate: 0.67%

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



Run 4: Statistics of LEDBAT

Start at: 2018-04-24 12:28:05

End at: 2018-04-24 12:28:35

# Below is generated by plot.py at 2018-04-24 16:28:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 32.35 Mbit/s

95th percentile per-packet one-way delay: 53.206 ms

Loss rate: 0.68%

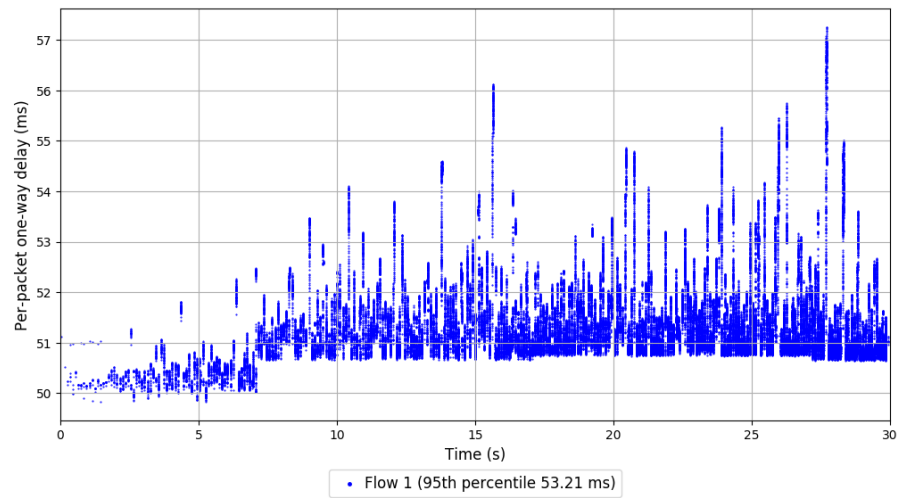
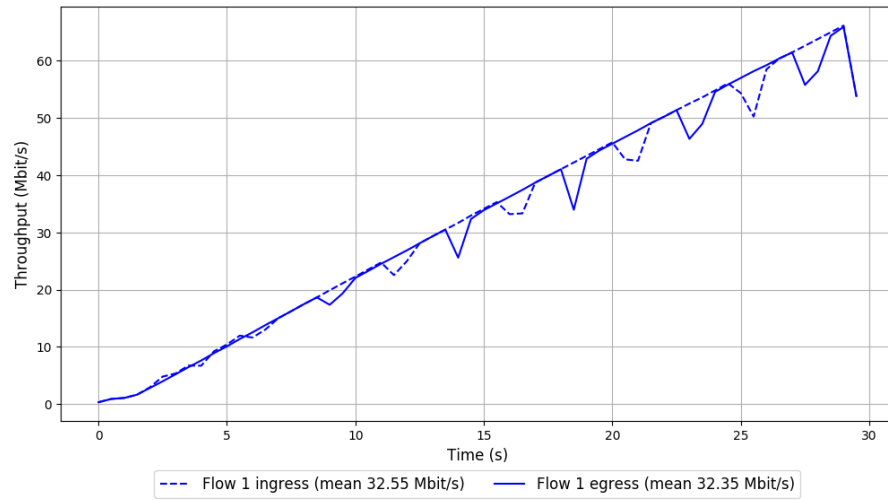
-- Flow 1:

Average throughput: 32.35 Mbit/s

95th percentile per-packet one-way delay: 53.206 ms

Loss rate: 0.68%

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



Run 5: Statistics of LEDBAT

Start at: 2018-04-24 12:41:14

End at: 2018-04-24 12:41:44

# Below is generated by plot.py at 2018-04-24 16:28:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 34.59 Mbit/s

95th percentile per-packet one-way delay: 52.348 ms

Loss rate: 0.68%

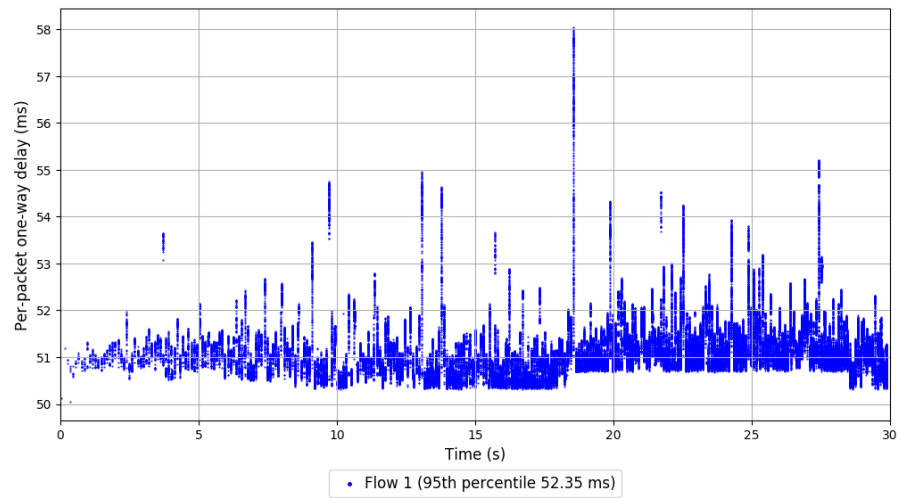
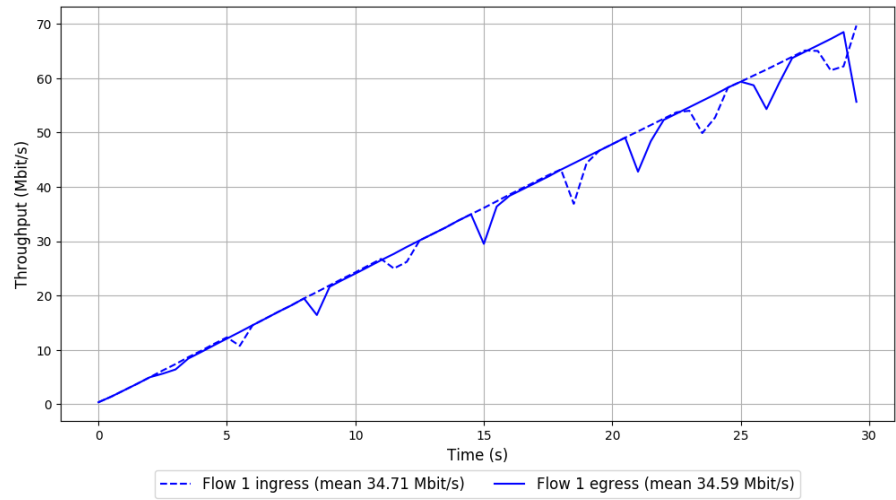
-- Flow 1:

Average throughput: 34.59 Mbit/s

95th percentile per-packet one-way delay: 52.348 ms

Loss rate: 0.68%

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



Run 6: Statistics of LEDBAT

Start at: 2018-04-24 12:54:27

End at: 2018-04-24 12:54:57

# Below is generated by plot.py at 2018-04-24 16:28:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.18 Mbit/s

95th percentile per-packet one-way delay: 52.825 ms

Loss rate: 0.67%

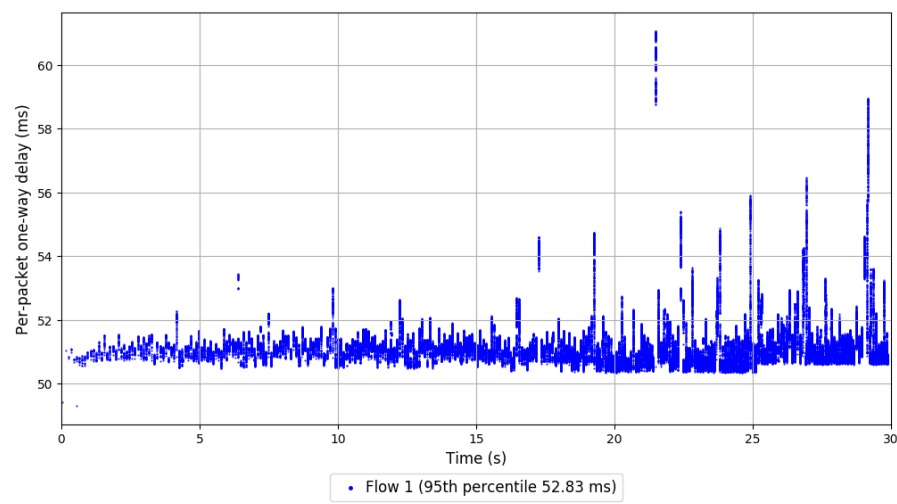
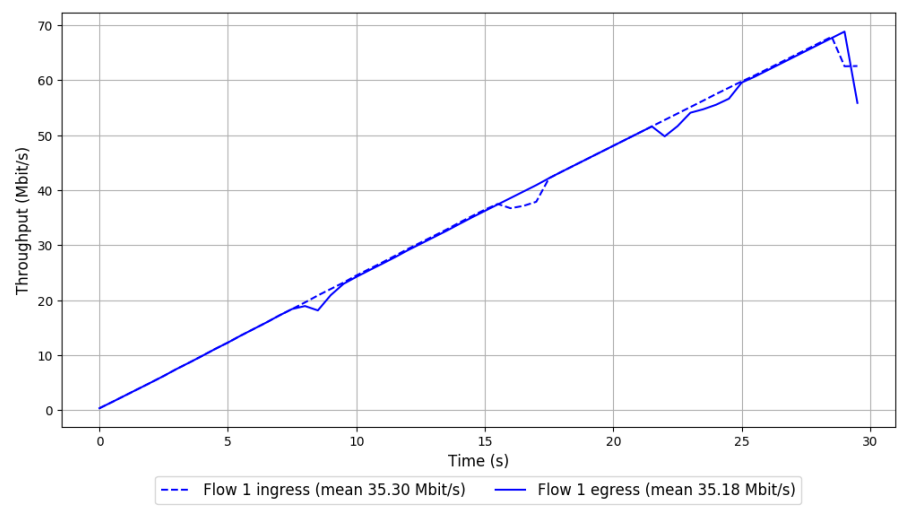
-- Flow 1:

Average throughput: 35.18 Mbit/s

95th percentile per-packet one-way delay: 52.825 ms

Loss rate: 0.67%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-24 13:07:45

End at: 2018-04-24 13:08:15

# Below is generated by plot.py at 2018-04-24 16:28:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 52.810 ms

Loss rate: 0.83%

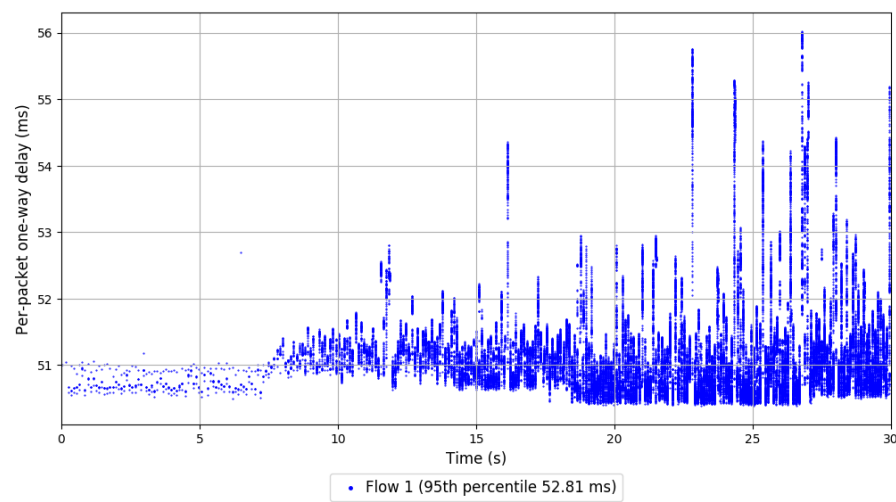
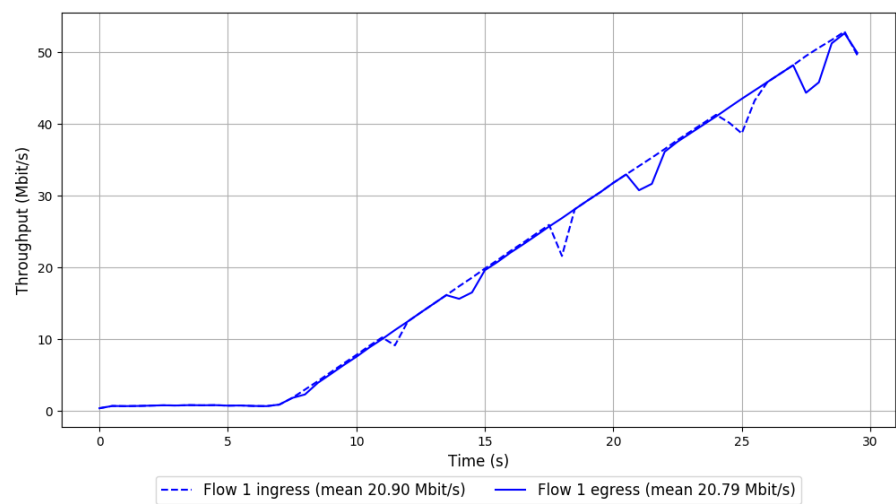
-- Flow 1:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 52.810 ms

Loss rate: 0.83%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-24 13:21:00

End at: 2018-04-24 13:21:30

# Below is generated by plot.py at 2018-04-24 16:28:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 51.988 ms

Loss rate: 0.67%

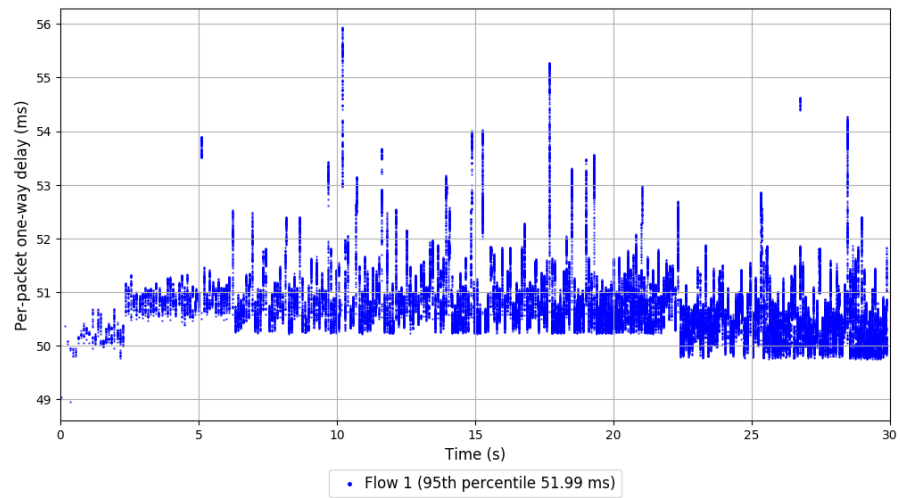
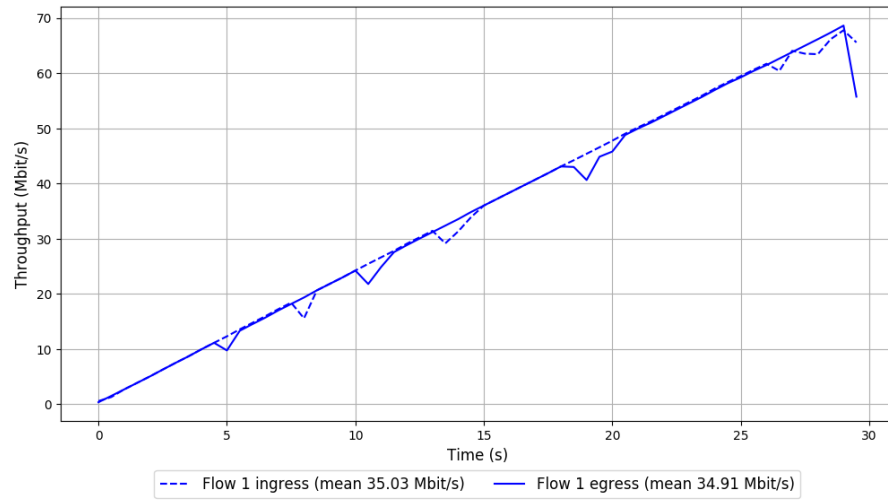
-- Flow 1:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 51.988 ms

Loss rate: 0.67%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-24 13:34:18

End at: 2018-04-24 13:34:49

# Below is generated by plot.py at 2018-04-24 16:28:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 52.421 ms

Loss rate: 0.67%

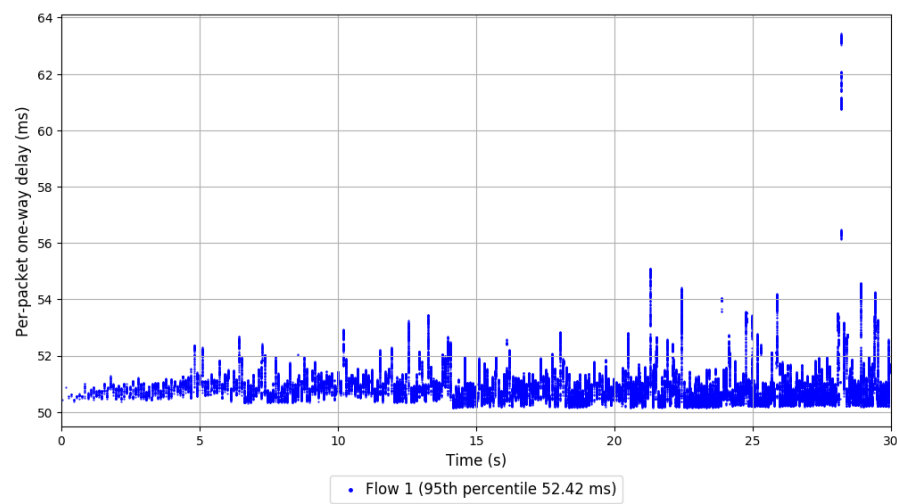
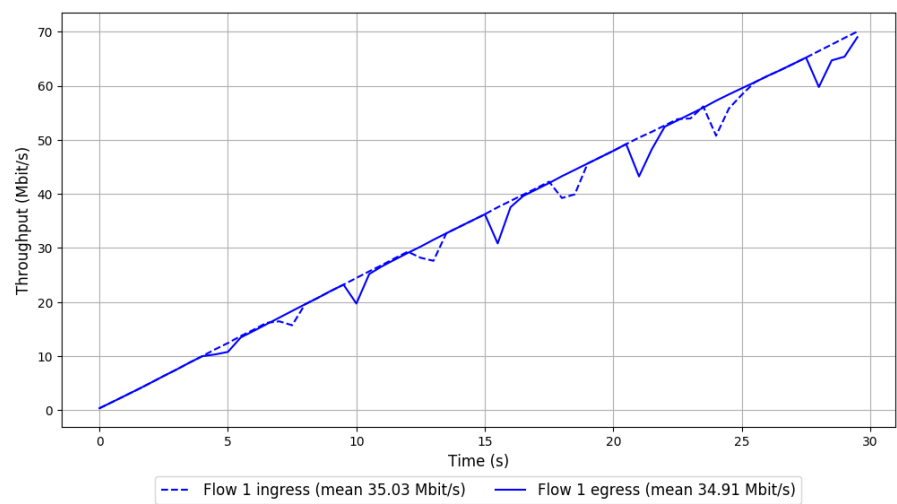
-- Flow 1:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 52.421 ms

Loss rate: 0.67%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-24 13:47:30

End at: 2018-04-24 13:48:00

# Below is generated by plot.py at 2018-04-24 16:28:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.33 Mbit/s

95th percentile per-packet one-way delay: 52.070 ms

Loss rate: 0.67%

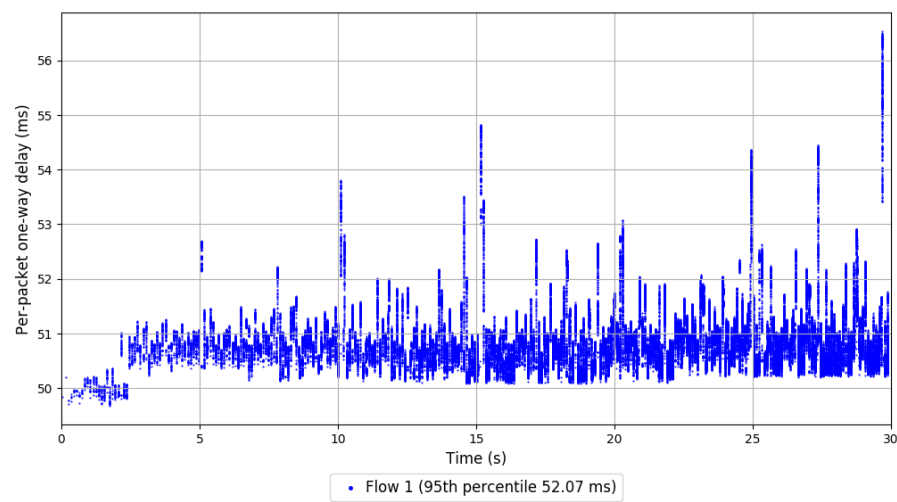
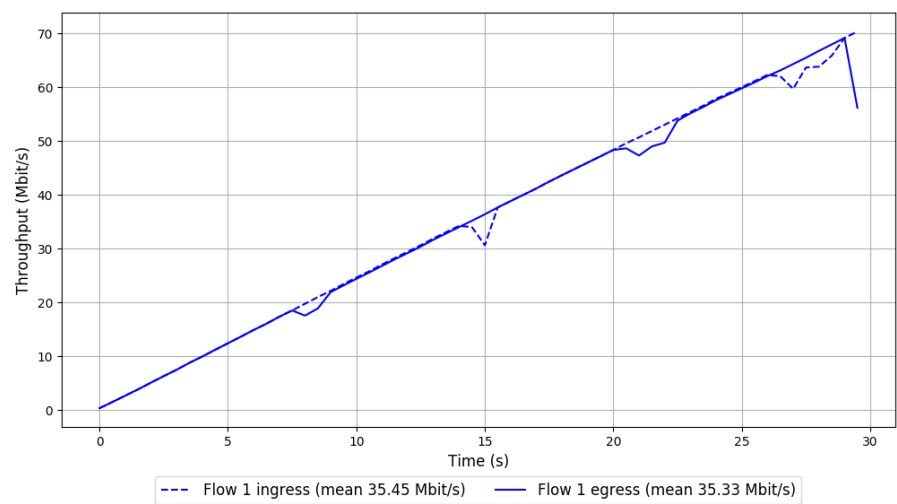
-- Flow 1:

Average throughput: 35.33 Mbit/s

95th percentile per-packet one-way delay: 52.070 ms

Loss rate: 0.67%

Run 10: Report of LEDBAT — Data Link

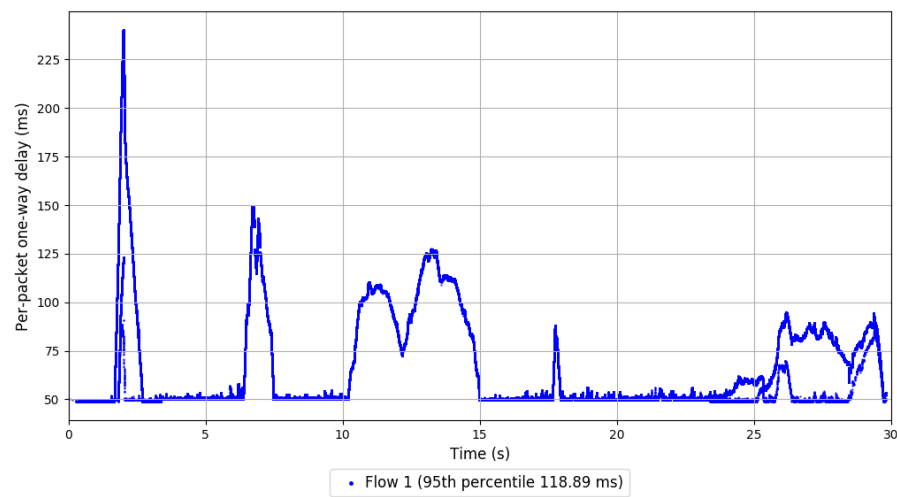
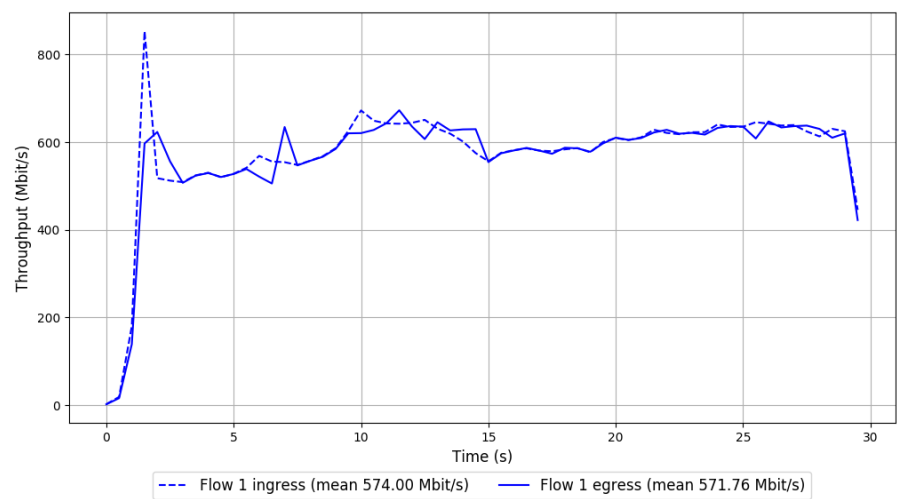


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 11:53:19
End at: 2018-04-24 11:53:49

# Below is generated by plot.py at 2018-04-24 16:36:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 571.76 Mbit/s
95th percentile per-packet one-way delay: 118.893 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 571.76 Mbit/s
95th percentile per-packet one-way delay: 118.893 ms
Loss rate: 0.72%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 12:06:25

End at: 2018-04-24 12:06:55

# Below is generated by plot.py at 2018-04-24 16:36:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 594.78 Mbit/s

95th percentile per-packet one-way delay: 100.099 ms

Loss rate: 0.53%

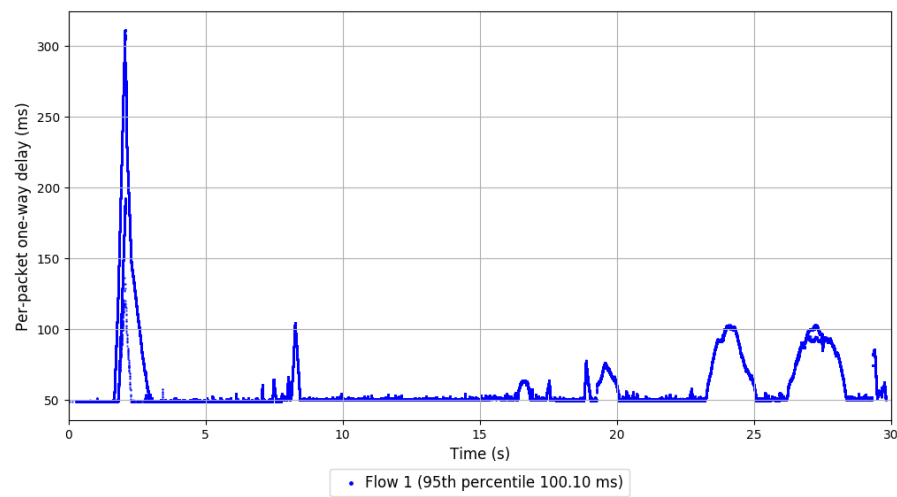
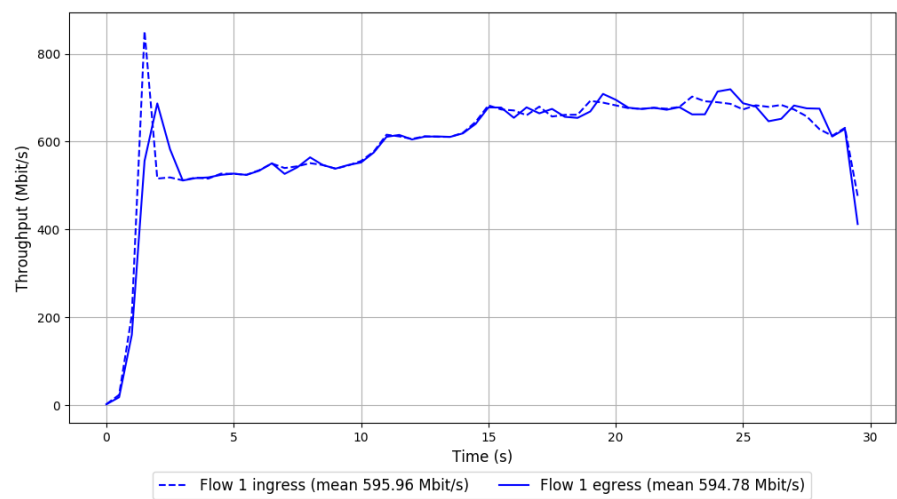
-- Flow 1:

Average throughput: 594.78 Mbit/s

95th percentile per-packet one-way delay: 100.099 ms

Loss rate: 0.53%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 12:19:39

End at: 2018-04-24 12:20:09

# Below is generated by plot.py at 2018-04-24 16:36:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 540.40 Mbit/s

95th percentile per-packet one-way delay: 122.809 ms

Loss rate: 0.91%

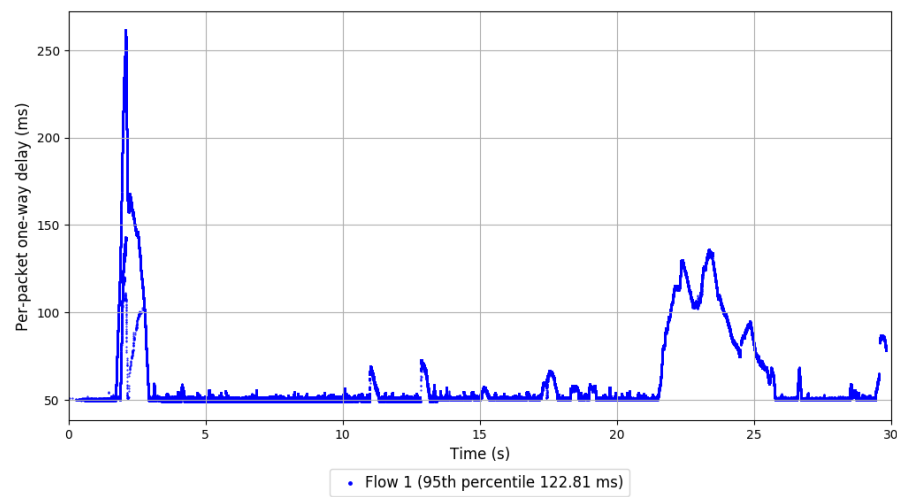
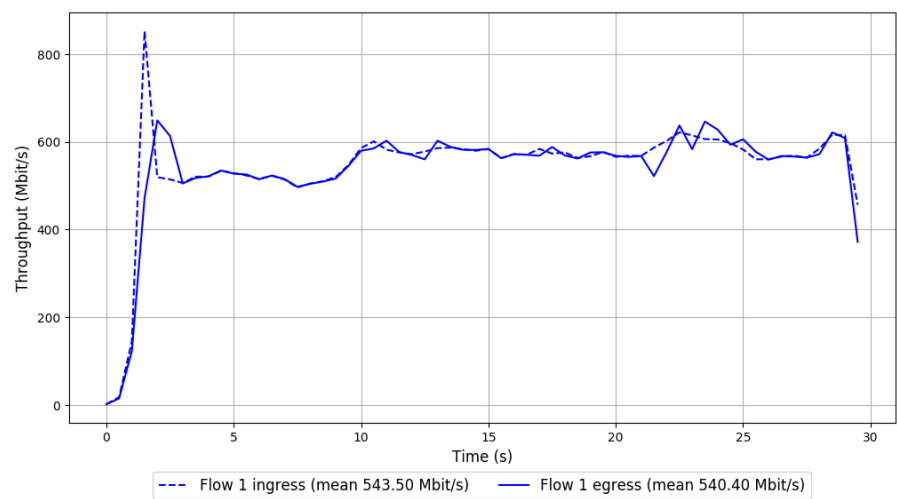
-- Flow 1:

Average throughput: 540.40 Mbit/s

95th percentile per-packet one-way delay: 122.809 ms

Loss rate: 0.91%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 12:32:56

End at: 2018-04-24 12:33:27

# Below is generated by plot.py at 2018-04-24 16:36:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 535.67 Mbit/s

95th percentile per-packet one-way delay: 126.790 ms

Loss rate: 1.03%

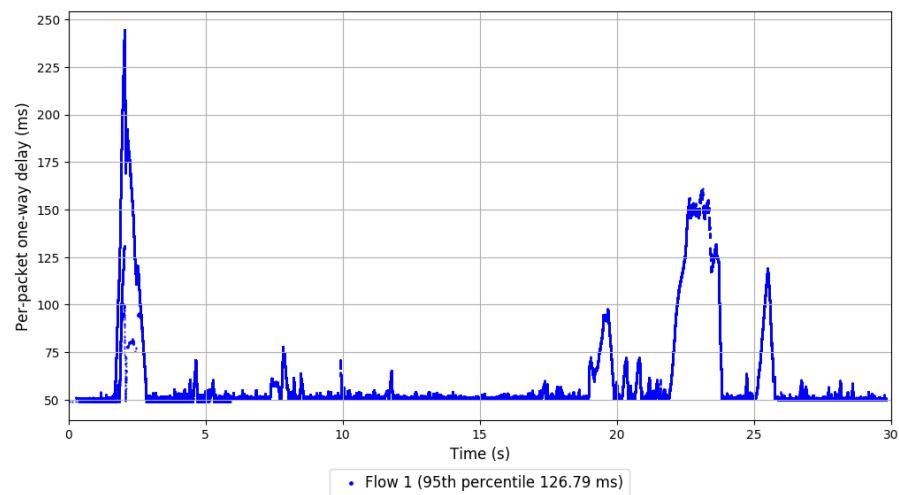
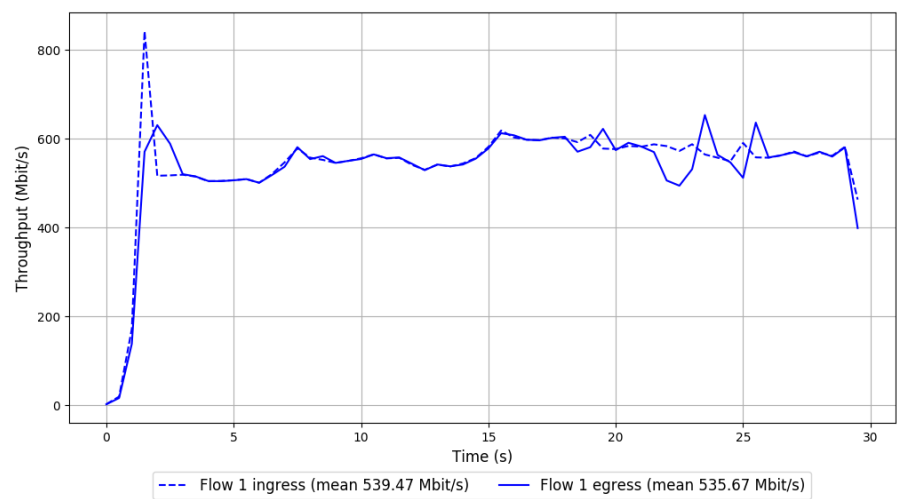
-- Flow 1:

Average throughput: 535.67 Mbit/s

95th percentile per-packet one-way delay: 126.790 ms

Loss rate: 1.03%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 12:46:07

End at: 2018-04-24 12:46:37

# Below is generated by plot.py at 2018-04-24 16:37:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 562.43 Mbit/s

95th percentile per-packet one-way delay: 187.455 ms

Loss rate: 1.92%

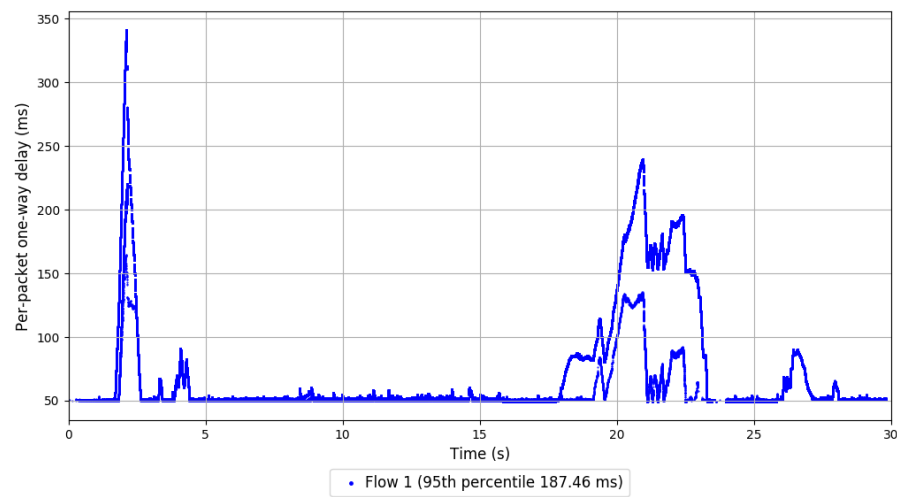
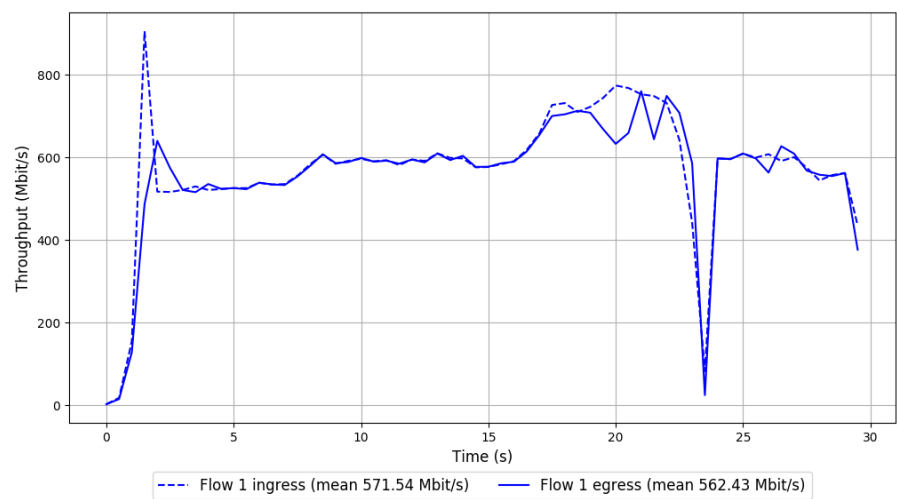
-- Flow 1:

Average throughput: 562.43 Mbit/s

95th percentile per-packet one-way delay: 187.455 ms

Loss rate: 1.92%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 12:59:19

End at: 2018-04-24 12:59:49

# Below is generated by plot.py at 2018-04-24 16:37:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 545.82 Mbit/s

95th percentile per-packet one-way delay: 98.883 ms

Loss rate: 0.93%

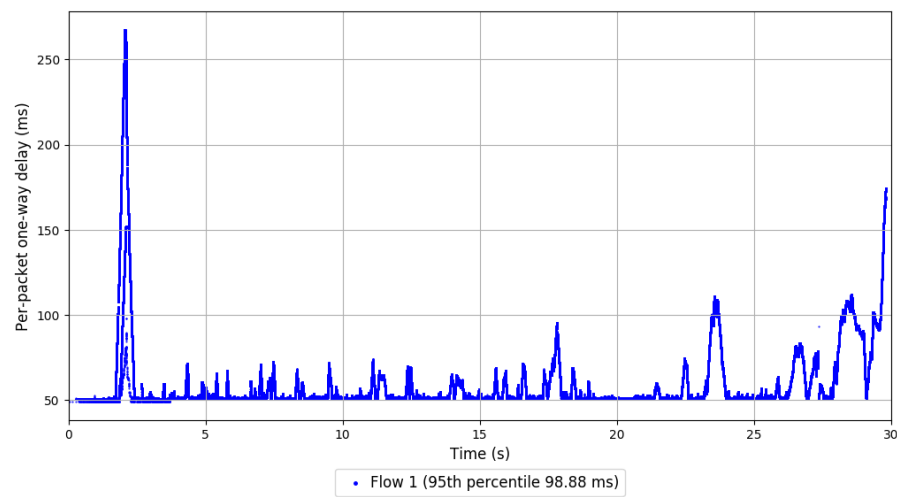
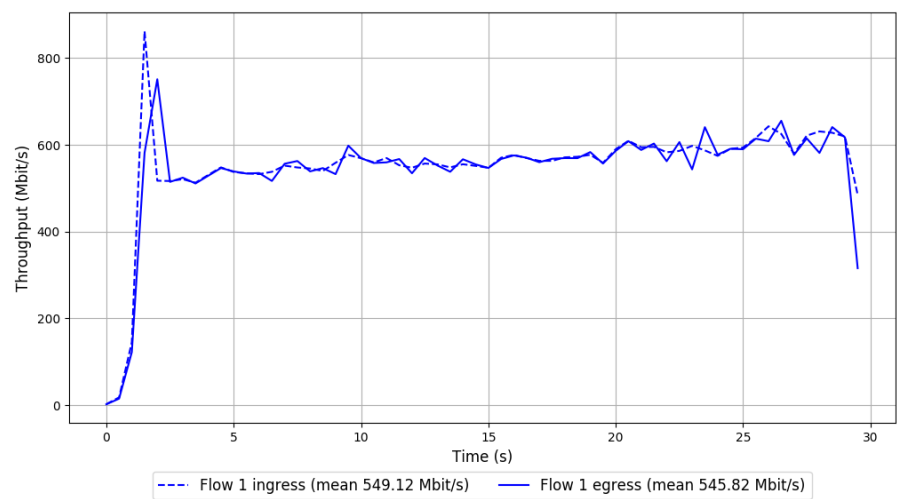
-- Flow 1:

Average throughput: 545.82 Mbit/s

95th percentile per-packet one-way delay: 98.883 ms

Loss rate: 0.93%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 13:12:34

End at: 2018-04-24 13:13:04

# Below is generated by plot.py at 2018-04-24 16:37:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 517.12 Mbit/s

95th percentile per-packet one-way delay: 85.418 ms

Loss rate: 0.46%

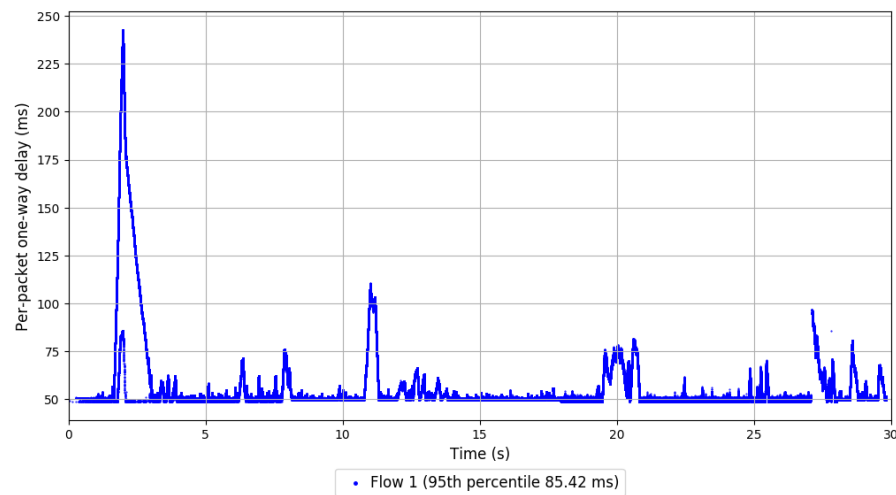
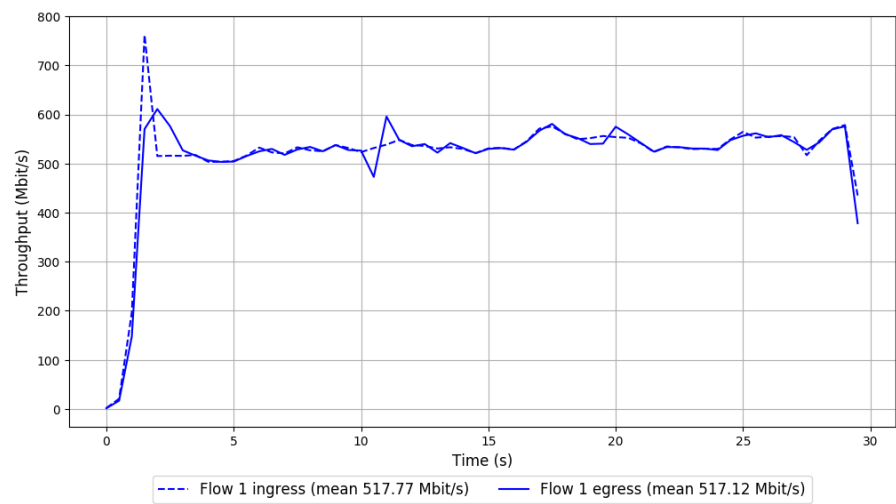
-- Flow 1:

Average throughput: 517.12 Mbit/s

95th percentile per-packet one-way delay: 85.418 ms

Loss rate: 0.46%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 13:25:53

End at: 2018-04-24 13:26:23

# Below is generated by plot.py at 2018-04-24 16:38:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 566.19 Mbit/s

95th percentile per-packet one-way delay: 104.602 ms

Loss rate: 0.99%

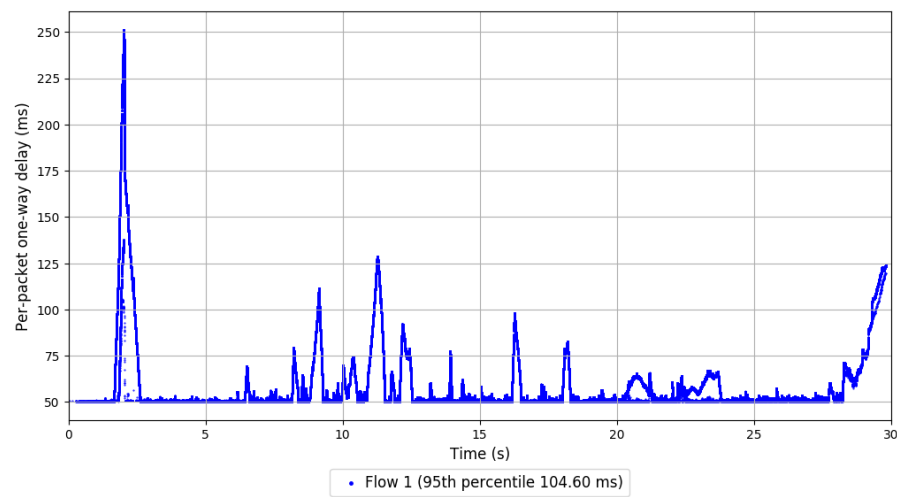
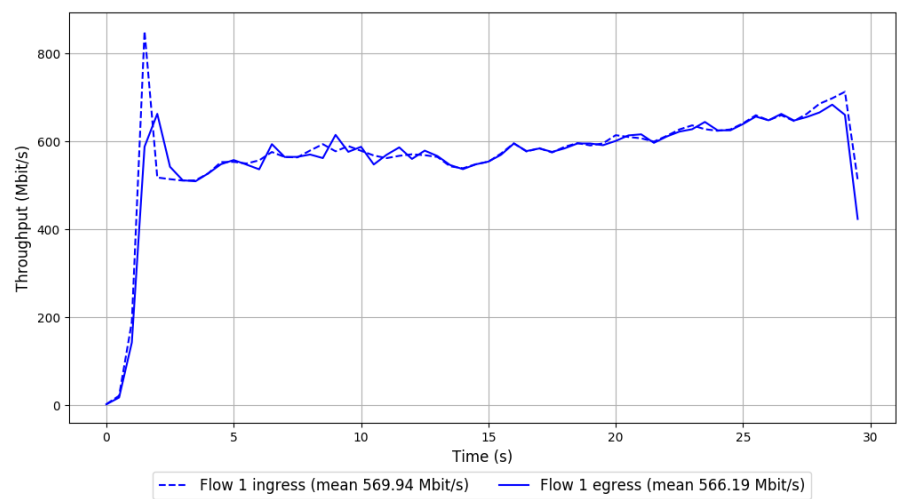
-- Flow 1:

Average throughput: 566.19 Mbit/s

95th percentile per-packet one-way delay: 104.602 ms

Loss rate: 0.99%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 13:39:06

End at: 2018-04-24 13:39:36

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 587.38 Mbit/s

95th percentile per-packet one-way delay: 113.842 ms

Loss rate: 0.51%

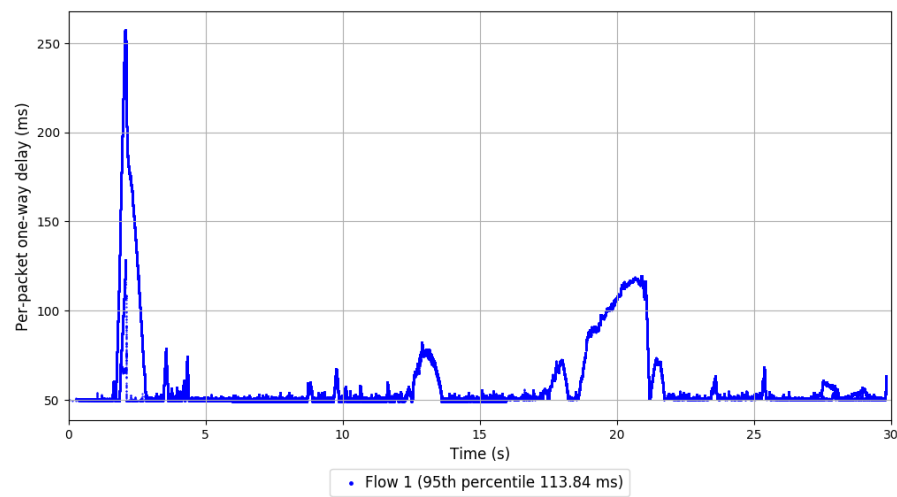
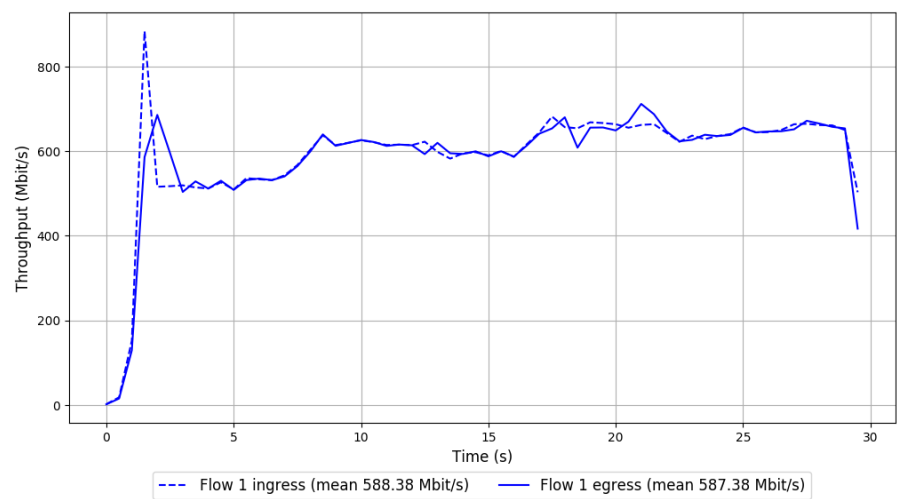
-- Flow 1:

Average throughput: 587.38 Mbit/s

95th percentile per-packet one-way delay: 113.842 ms

Loss rate: 0.51%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-24 13:52:23

End at: 2018-04-24 13:52:53

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 548.44 Mbit/s

95th percentile per-packet one-way delay: 129.803 ms

Loss rate: 1.32%

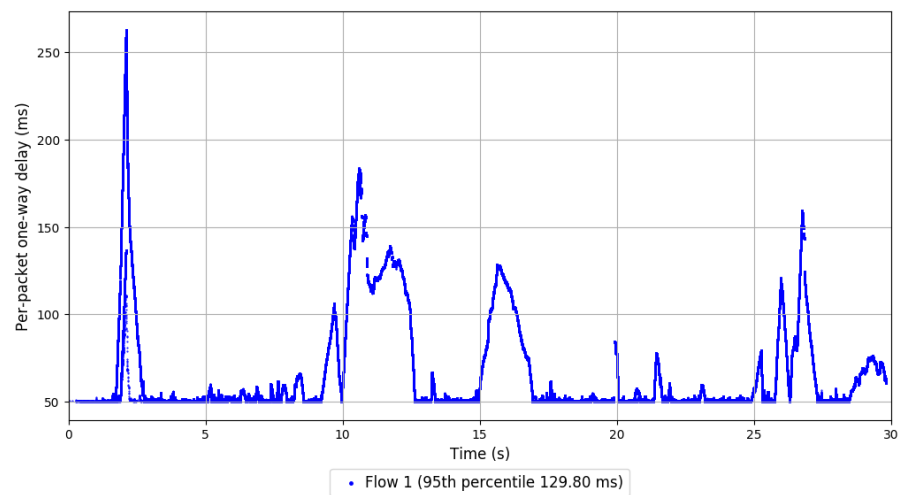
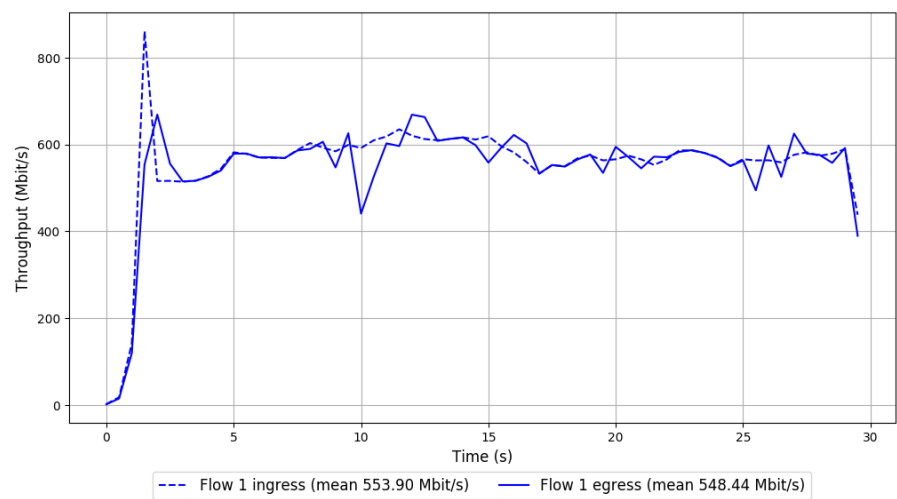
-- Flow 1:

Average throughput: 548.44 Mbit/s

95th percentile per-packet one-way delay: 129.803 ms

Loss rate: 1.32%

Run 10: Report of PCC-Allegro — Data Link

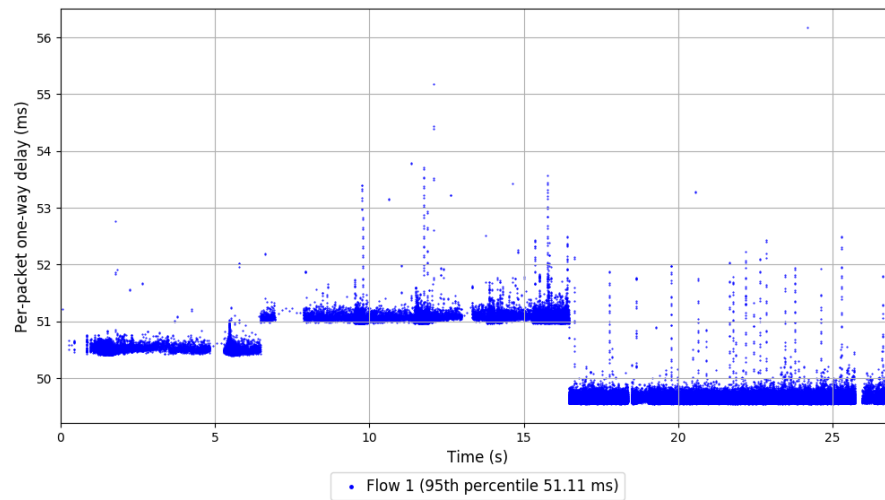
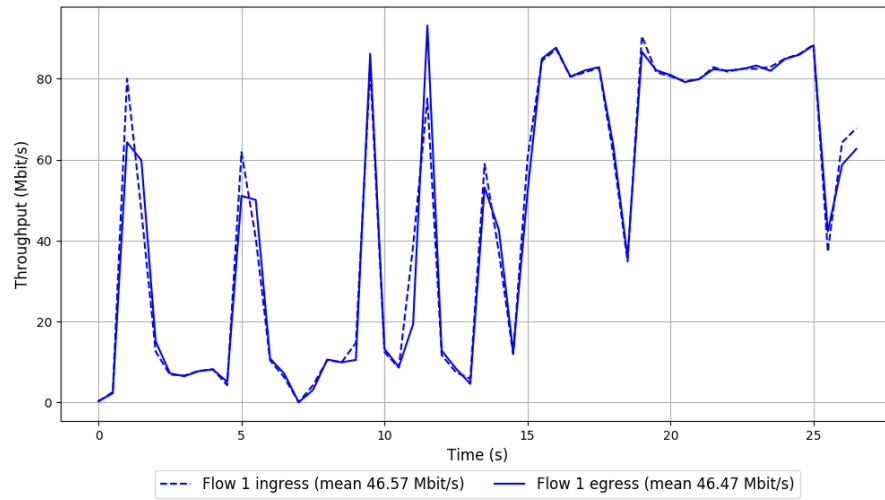


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 11:55:03
End at: 2018-04-24 11:55:33

# Below is generated by plot.py at 2018-04-24 16:46:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.47 Mbit/s
95th percentile per-packet one-way delay: 51.112 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 46.47 Mbit/s
95th percentile per-packet one-way delay: 51.112 ms
Loss rate: 0.58%
```

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



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 12:08:10

End at: 2018-04-24 12:08:40

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 50.759 ms

Loss rate: 0.50%

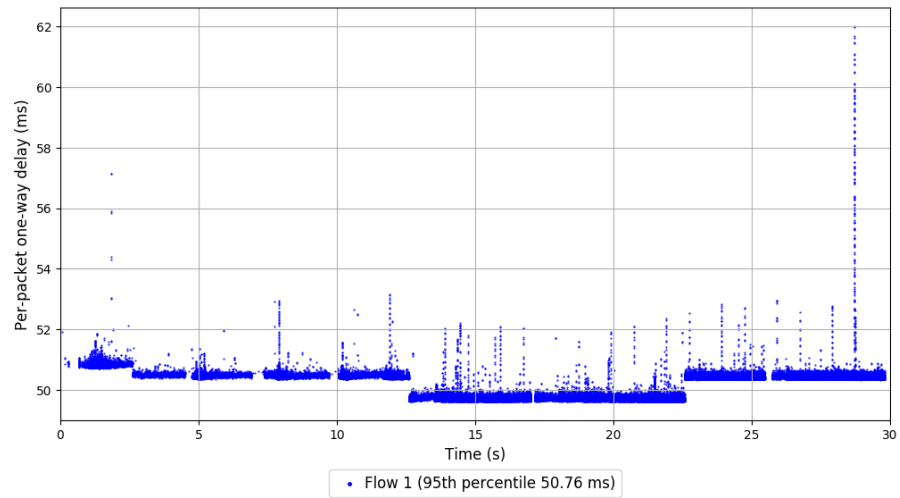
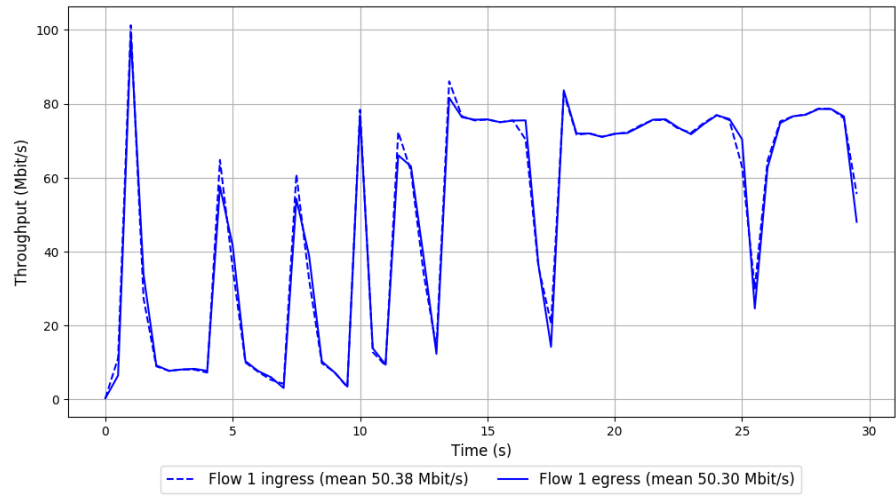
-- Flow 1:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 50.759 ms

Loss rate: 0.50%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 12:21:22

End at: 2018-04-24 12:21:52

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 52.33 Mbit/s

95th percentile per-packet one-way delay: 51.130 ms

Loss rate: 0.58%

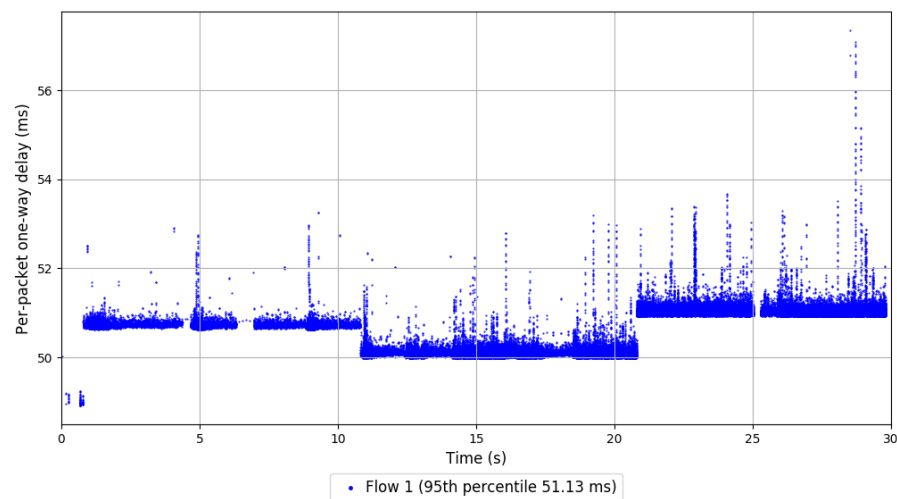
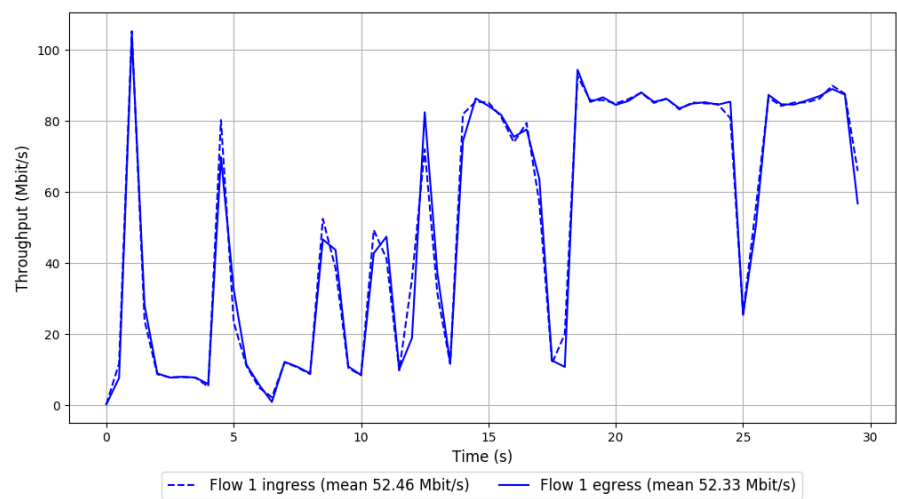
-- Flow 1:

Average throughput: 52.33 Mbit/s

95th percentile per-packet one-way delay: 51.130 ms

Loss rate: 0.58%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 12:34:41

End at: 2018-04-24 12:35:11

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 51.37 Mbit/s

95th percentile per-packet one-way delay: 51.211 ms

Loss rate: 0.53%

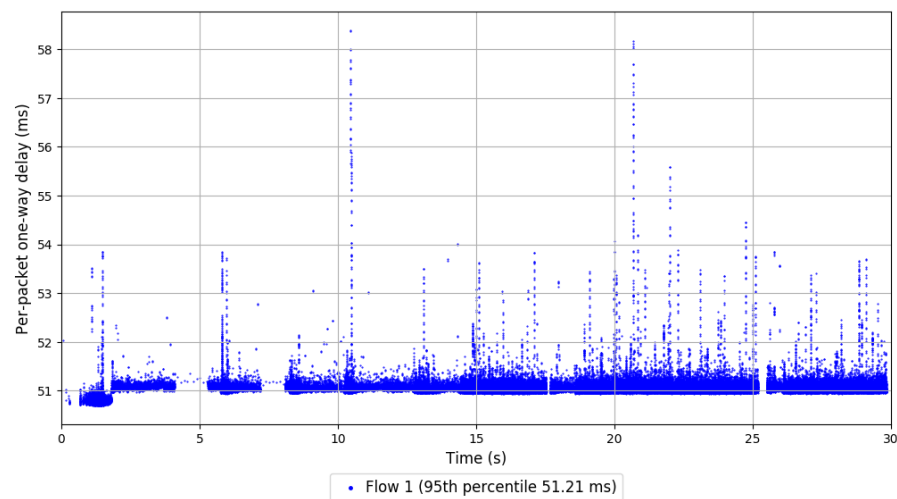
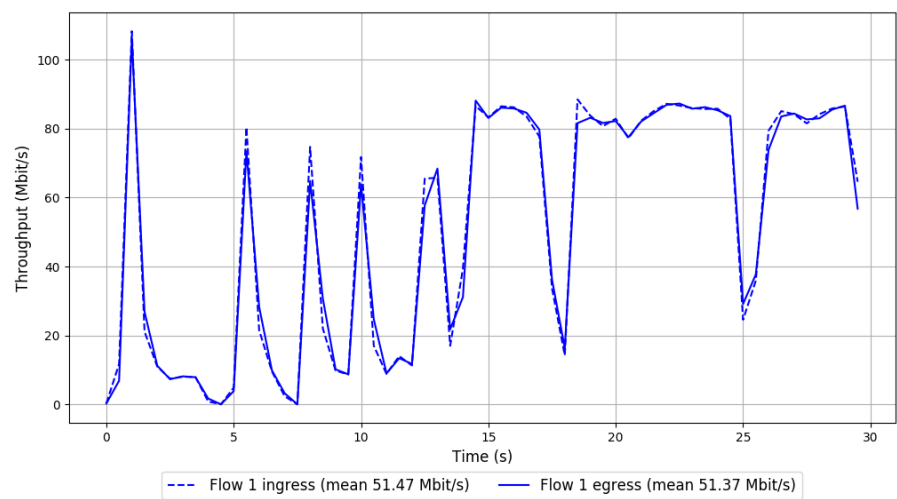
-- Flow 1:

Average throughput: 51.37 Mbit/s

95th percentile per-packet one-way delay: 51.211 ms

Loss rate: 0.53%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 12:47:50

End at: 2018-04-24 12:48:20

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.51 Mbit/s

95th percentile per-packet one-way delay: 50.942 ms

Loss rate: 0.65%

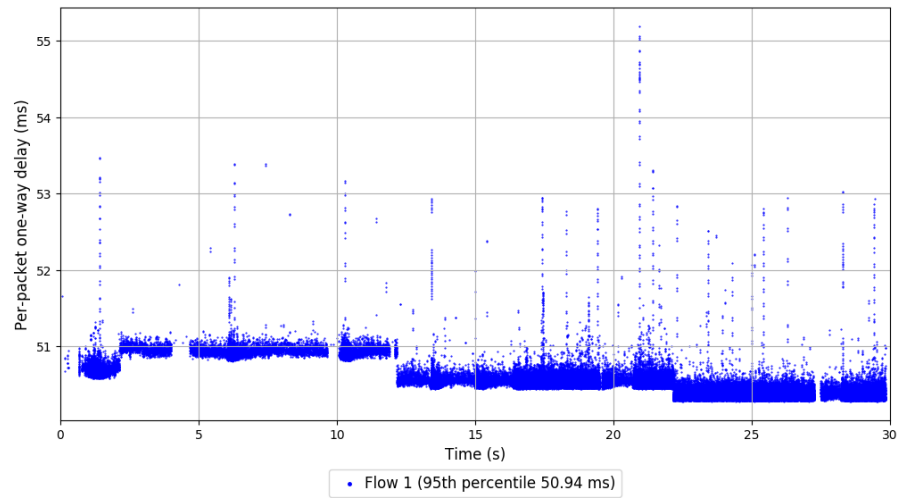
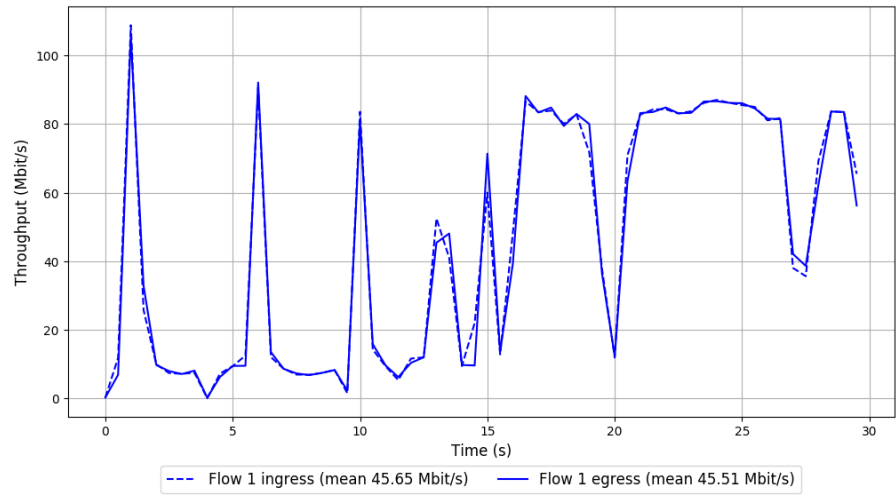
-- Flow 1:

Average throughput: 45.51 Mbit/s

95th percentile per-packet one-way delay: 50.942 ms

Loss rate: 0.65%

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



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 13:01:03

End at: 2018-04-24 13:01:33

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.06 Mbit/s

95th percentile per-packet one-way delay: 50.525 ms

Loss rate: 0.55%

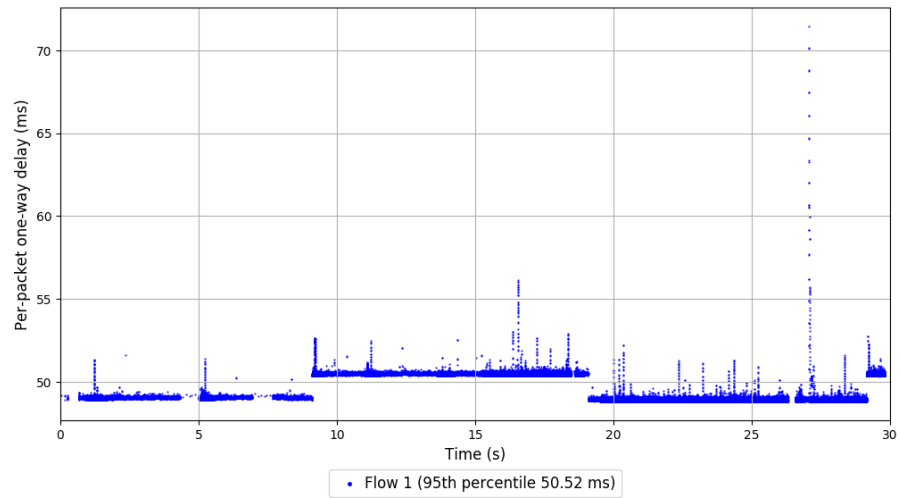
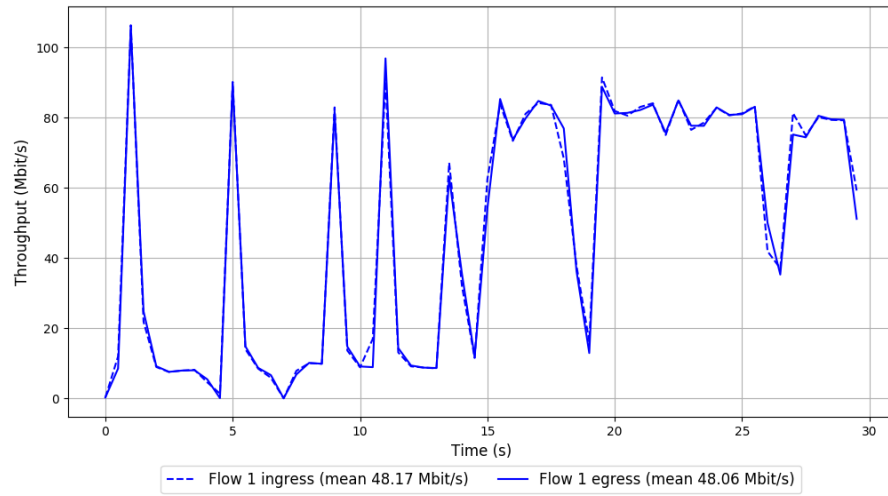
-- Flow 1:

Average throughput: 48.06 Mbit/s

95th percentile per-packet one-way delay: 50.525 ms

Loss rate: 0.55%

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



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 13:14:18

End at: 2018-04-24 13:14:48

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.16 Mbit/s

95th percentile per-packet one-way delay: 50.647 ms

Loss rate: 0.55%

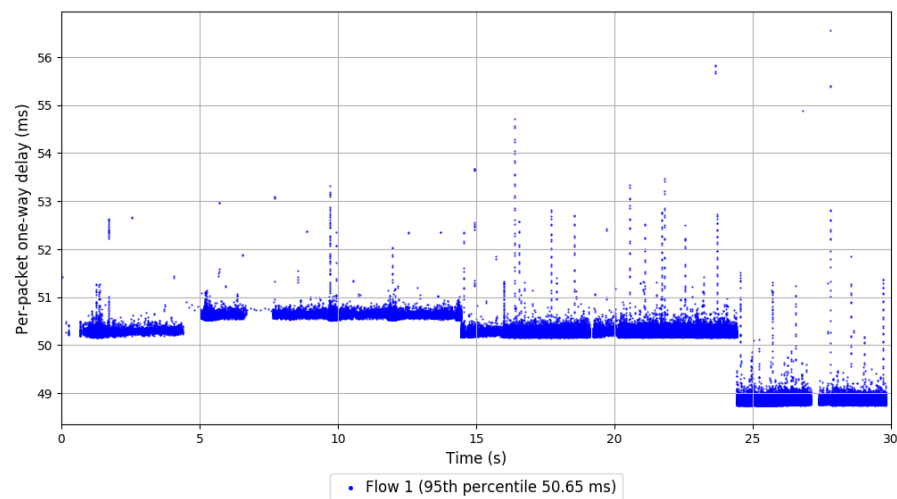
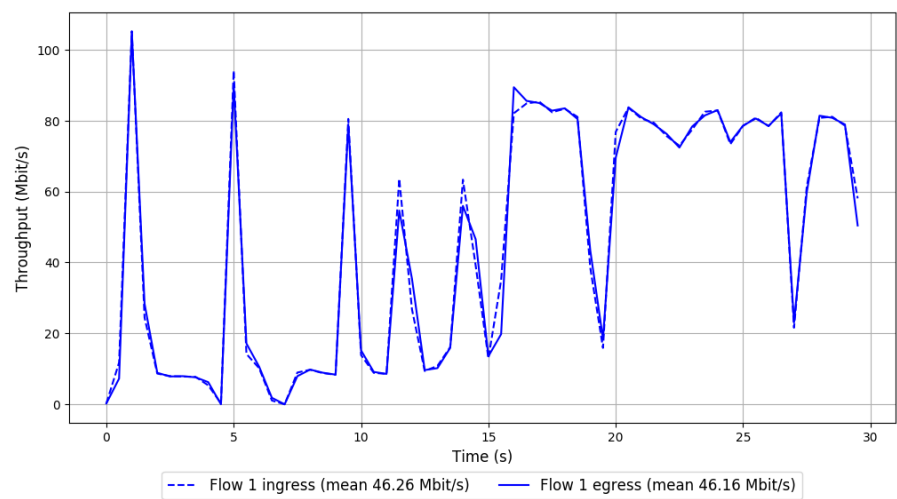
-- Flow 1:

Average throughput: 46.16 Mbit/s

95th percentile per-packet one-way delay: 50.647 ms

Loss rate: 0.55%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 13:27:37

End at: 2018-04-24 13:28:07

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 53.34 Mbit/s

95th percentile per-packet one-way delay: 50.740 ms

Loss rate: 0.51%

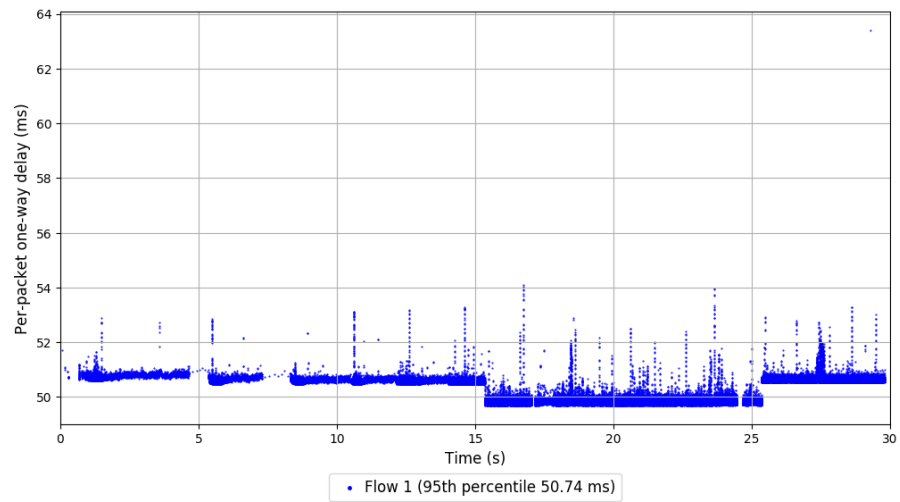
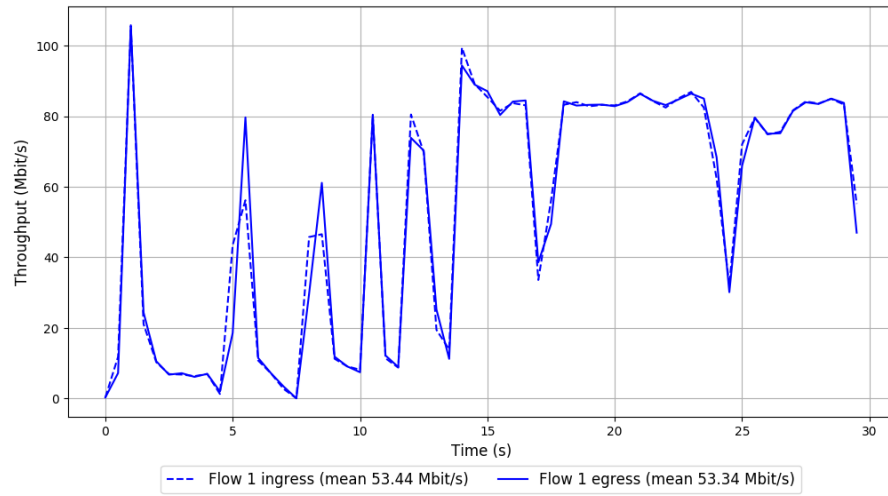
-- Flow 1:

Average throughput: 53.34 Mbit/s

95th percentile per-packet one-way delay: 50.740 ms

Loss rate: 0.51%

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



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-24 13:40:52

End at: 2018-04-24 13:41:22

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.23 Mbit/s

95th percentile per-packet one-way delay: 50.452 ms

Loss rate: 0.56%

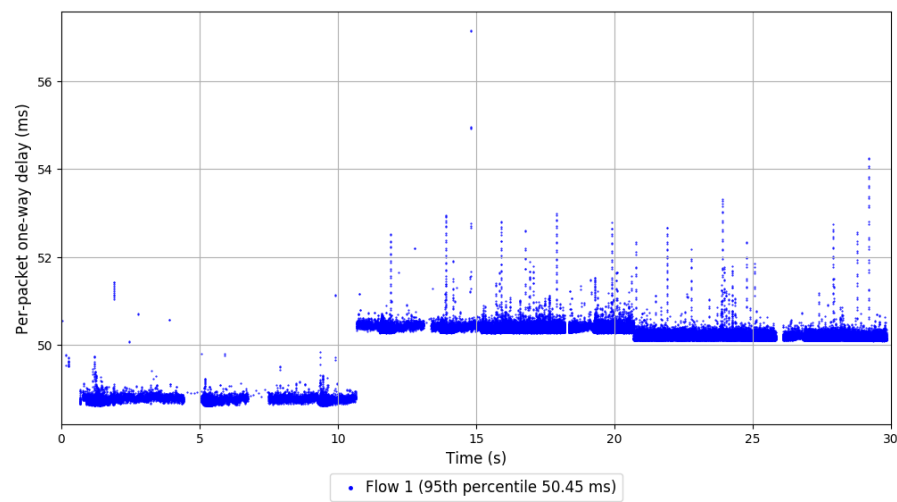
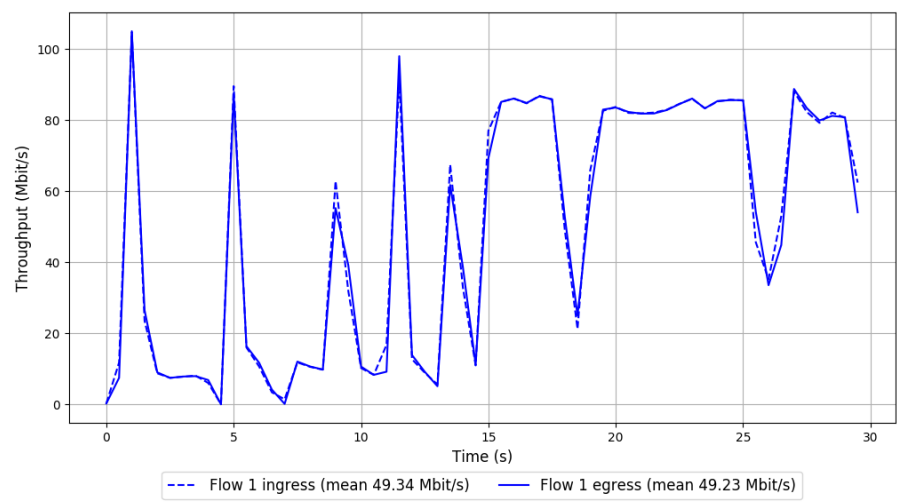
-- Flow 1:

Average throughput: 49.23 Mbit/s

95th percentile per-packet one-way delay: 50.452 ms

Loss rate: 0.56%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-24 13:54:06

End at: 2018-04-24 13:54:36

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.93 Mbit/s

95th percentile per-packet one-way delay: 50.486 ms

Loss rate: 0.51%

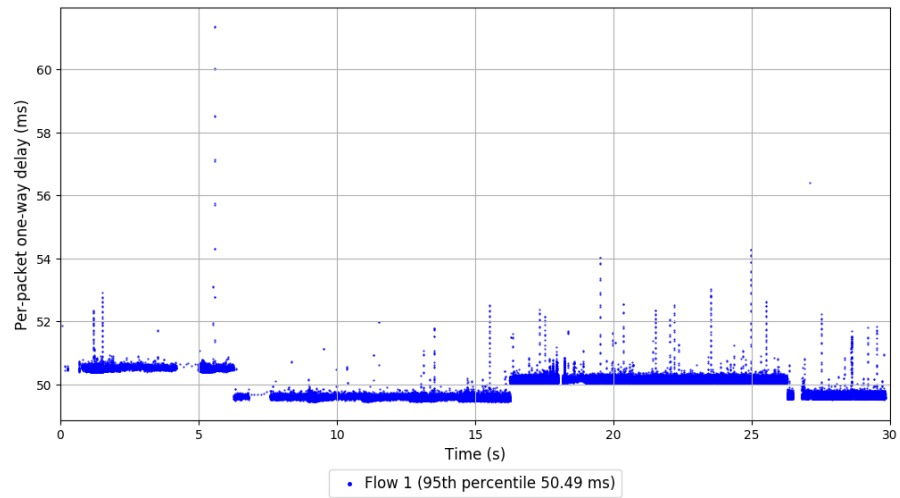
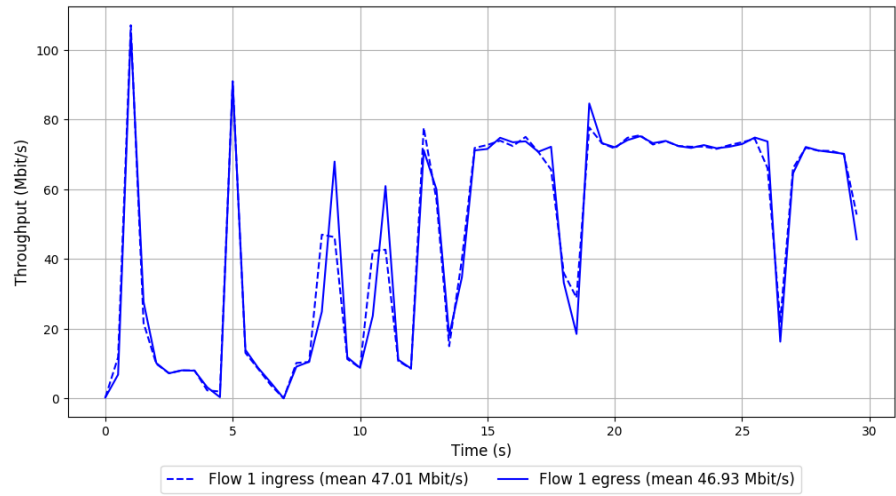
-- Flow 1:

Average throughput: 46.93 Mbit/s

95th percentile per-packet one-way delay: 50.486 ms

Loss rate: 0.51%

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

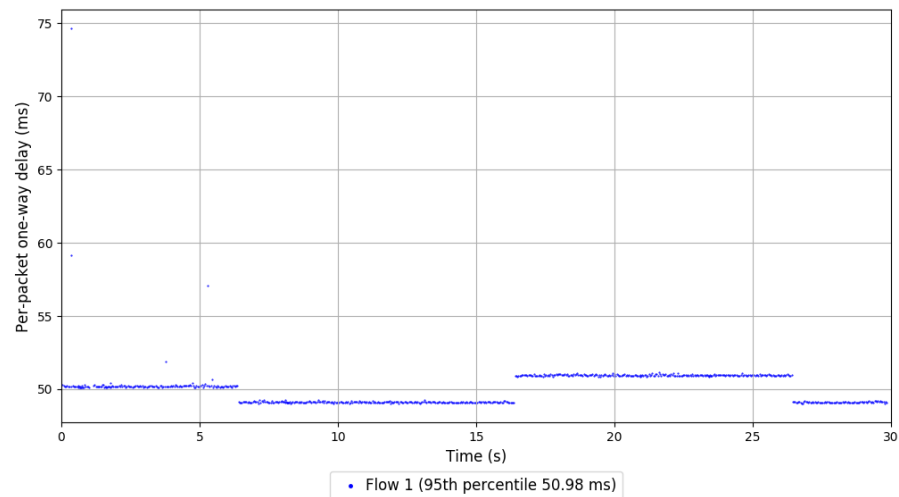
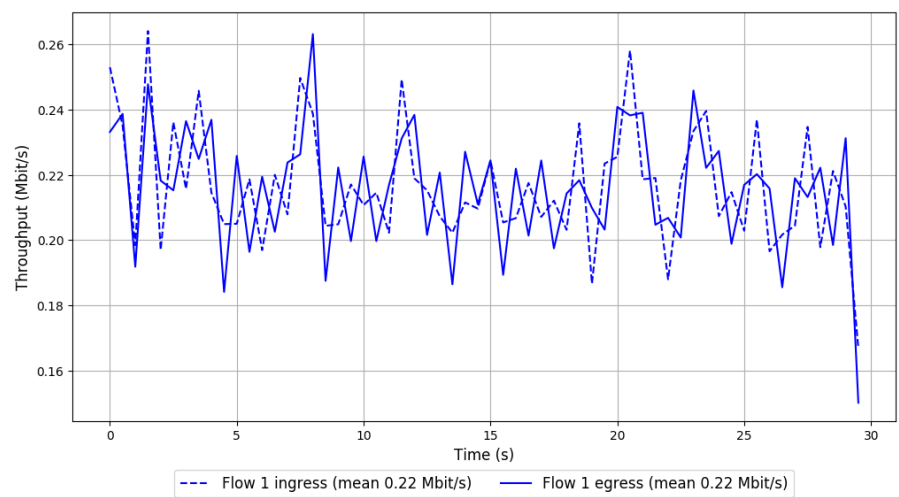


```
Run 1: Statistics of SCReAM

Start at: 2018-04-24 11:58:46
End at: 2018-04-24 11:59:16

# Below is generated by plot.py at 2018-04-24 16:46:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.983 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.983 ms
Loss rate: 0.25%
```

Run 1: Report of SReAM — Data Link

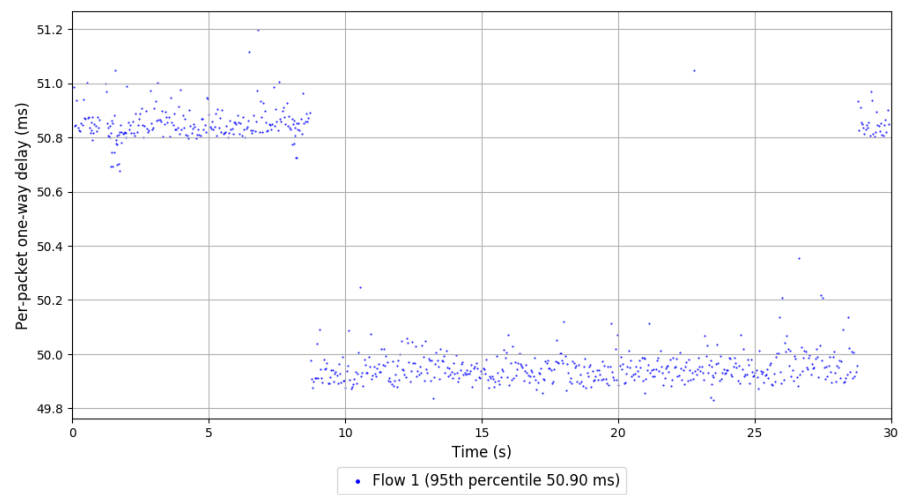
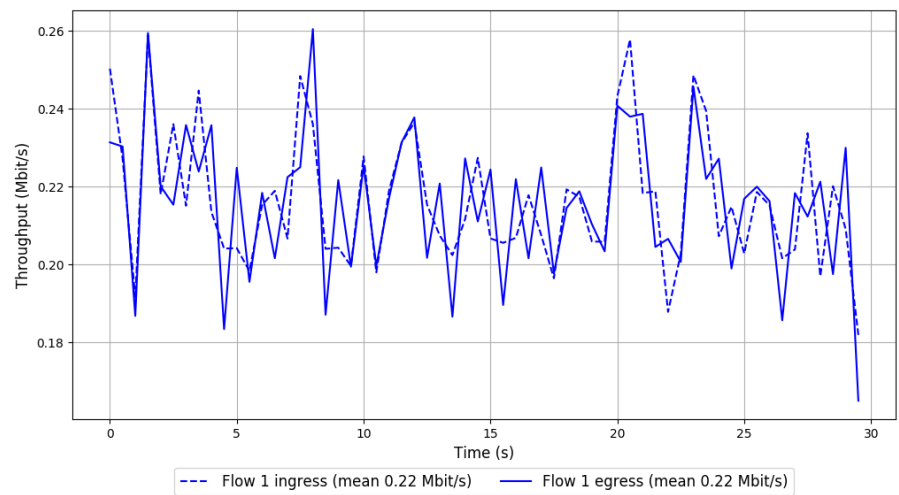


```
Run 2: Statistics of SCReAM

Start at: 2018-04-24 12:11:54
End at: 2018-04-24 12:12:24

# Below is generated by plot.py at 2018-04-24 16:46:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.898 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.898 ms
Loss rate: 0.26%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-24 12:25:15

End at: 2018-04-24 12:25:45

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.26%

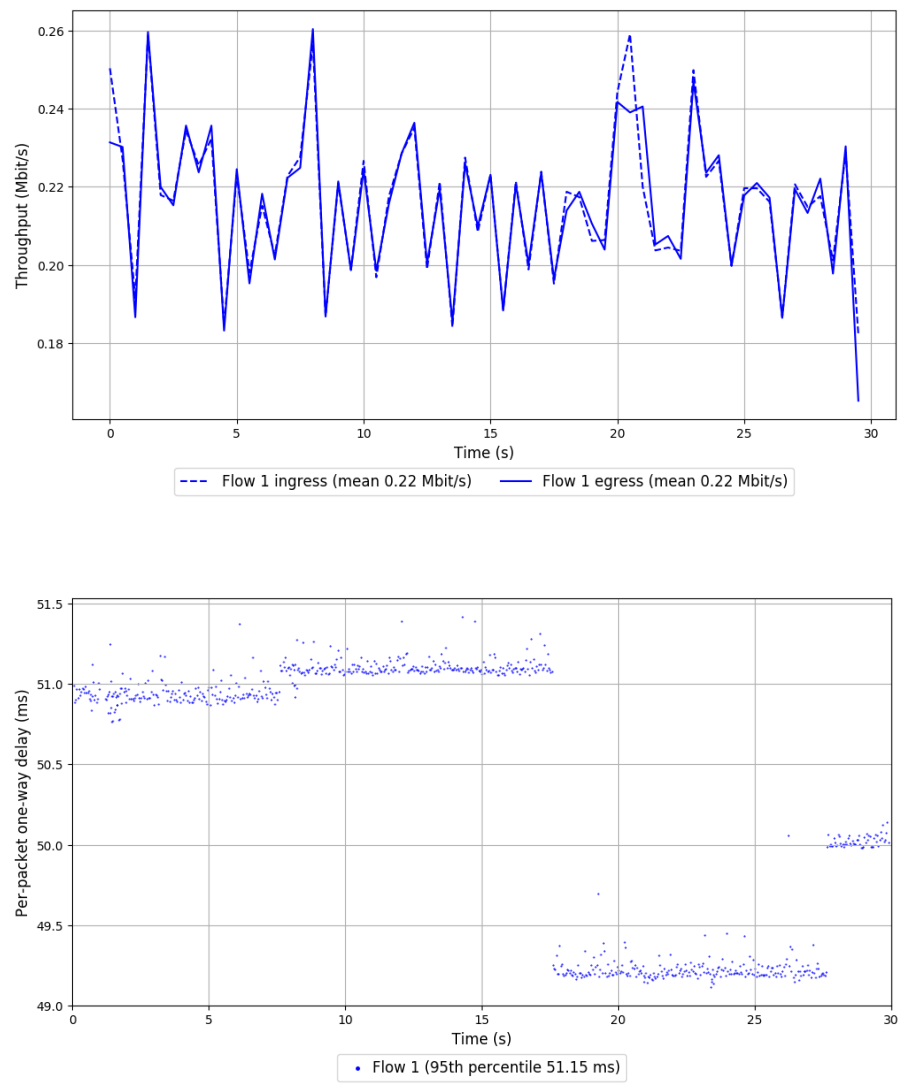
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.26%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-24 12:38:25

End at: 2018-04-24 12:38:55

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.325 ms

Loss rate: 0.38%

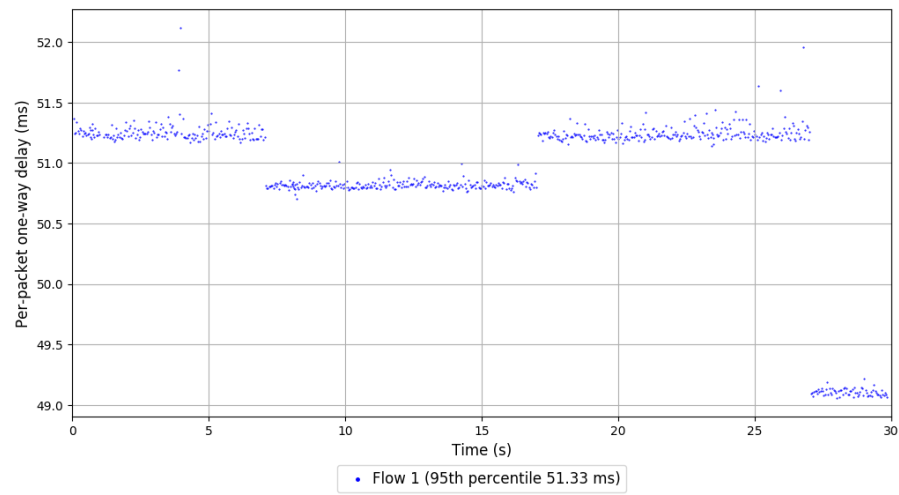
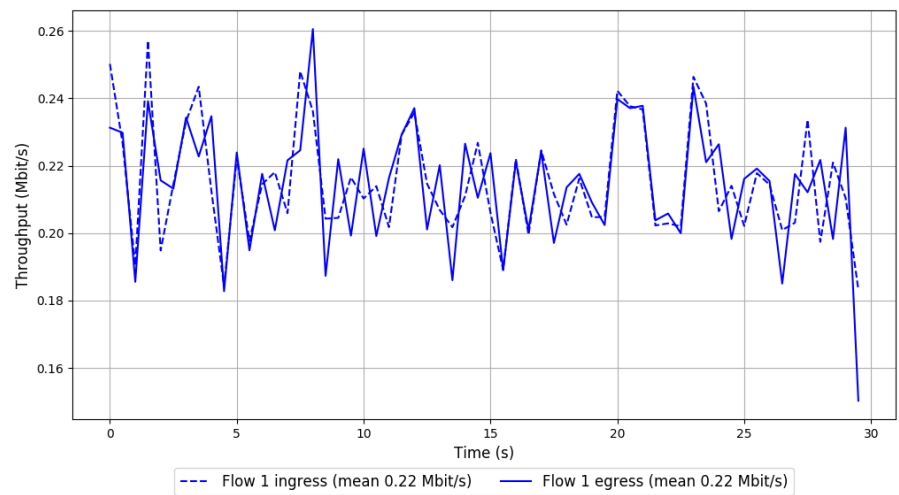
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.325 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-24 12:51:36

End at: 2018-04-24 12:52:06

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.665 ms

Loss rate: 0.26%

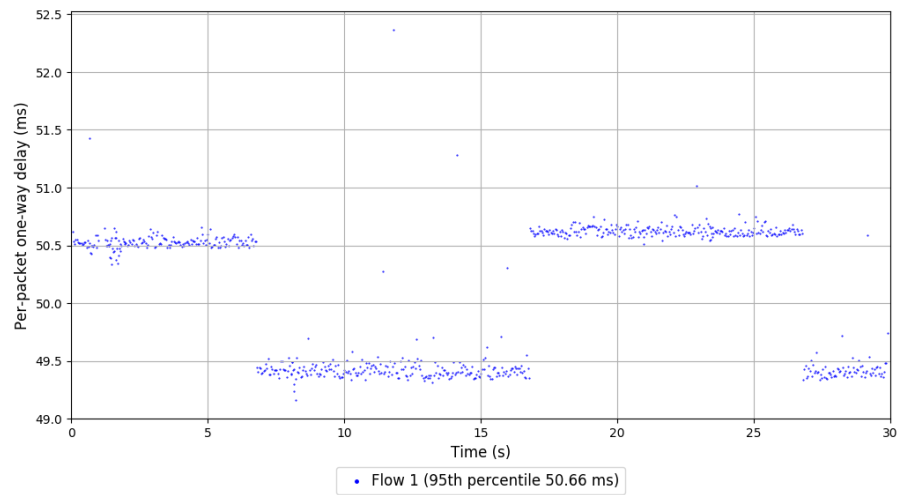
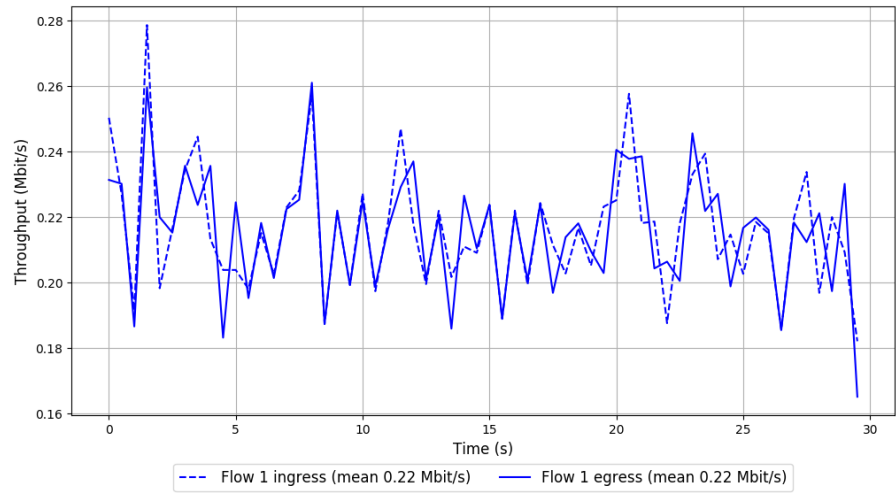
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.665 ms

Loss rate: 0.26%

## Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-24 13:04:54

End at: 2018-04-24 13:05:24

# Below is generated by plot.py at 2018-04-24 16:46:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.848 ms

Loss rate: 0.38%

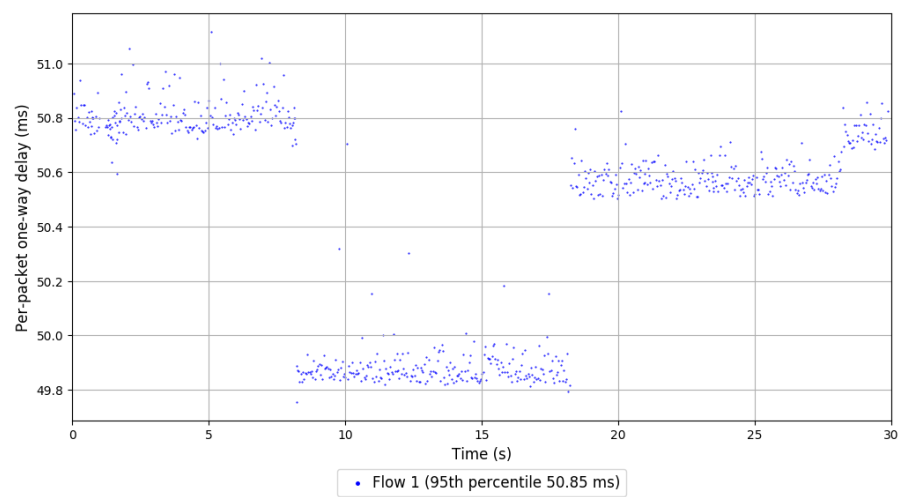
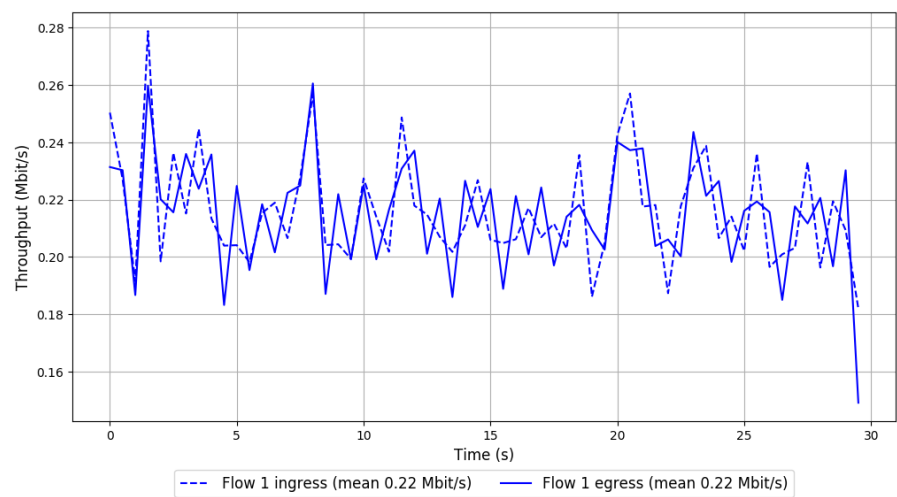
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.848 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-24 13:18:11

End at: 2018-04-24 13:18:41

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.781 ms

Loss rate: 0.38%

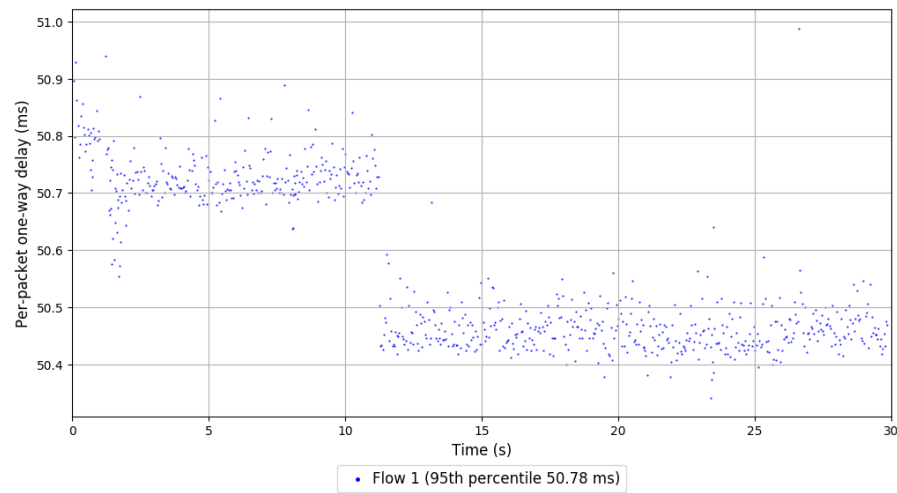
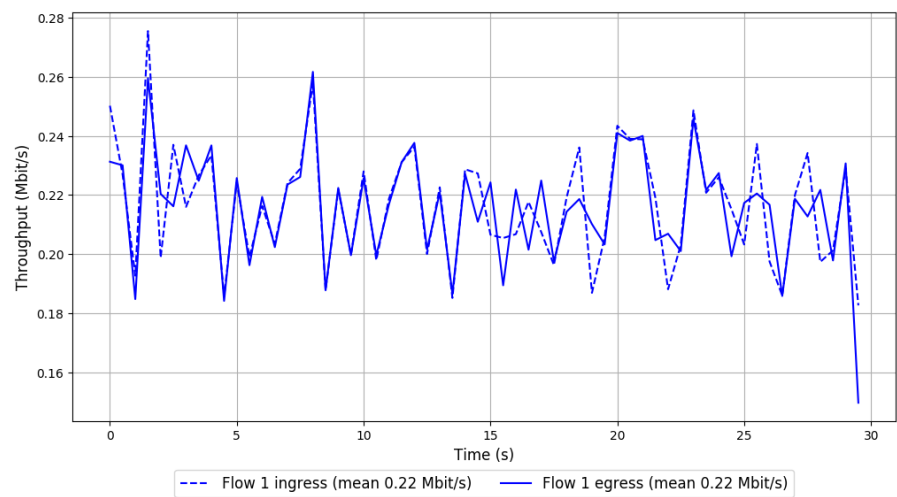
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.781 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-24 13:31:23

End at: 2018-04-24 13:31:53

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.563 ms

Loss rate: 0.26%

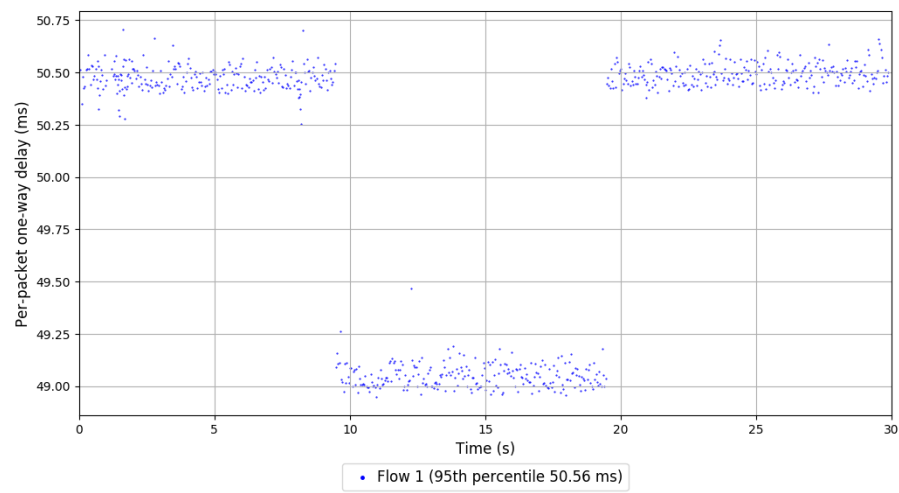
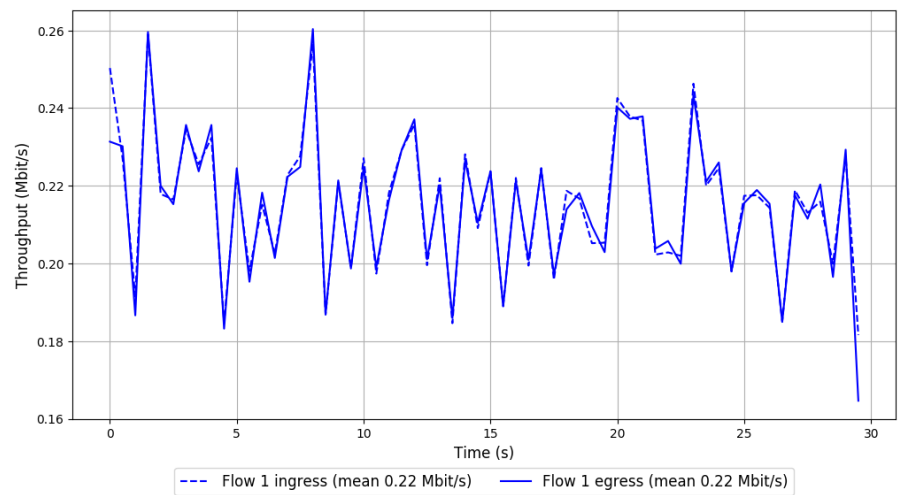
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.563 ms

Loss rate: 0.26%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-24 13:44:43

End at: 2018-04-24 13:45:13

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.622 ms

Loss rate: 0.38%

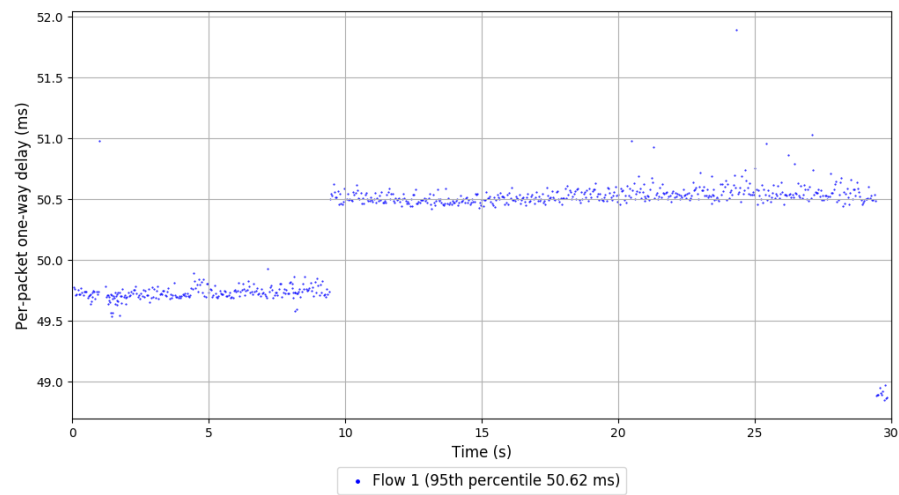
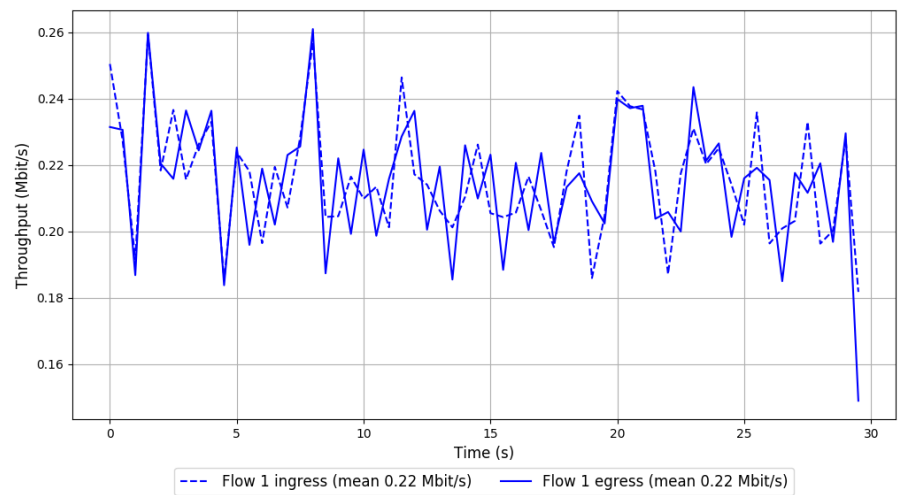
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.622 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-24 13:57:47

End at: 2018-04-24 13:58:17

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.972 ms

Loss rate: 0.26%

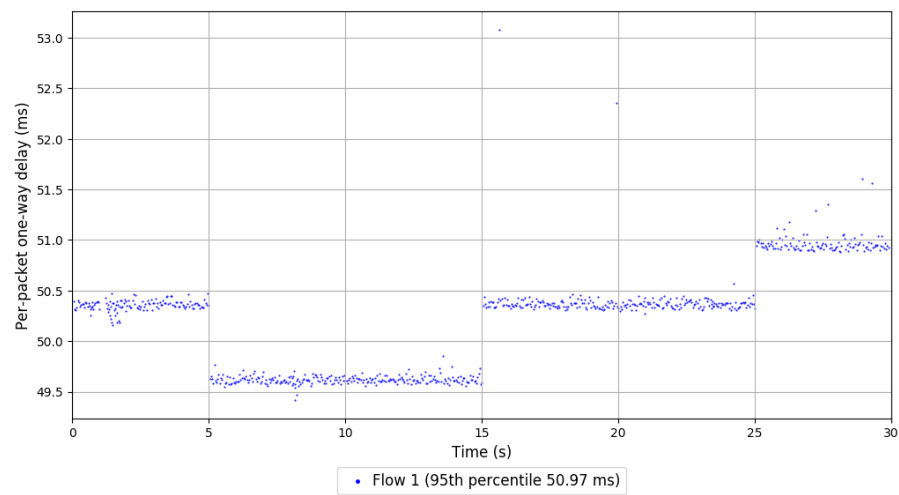
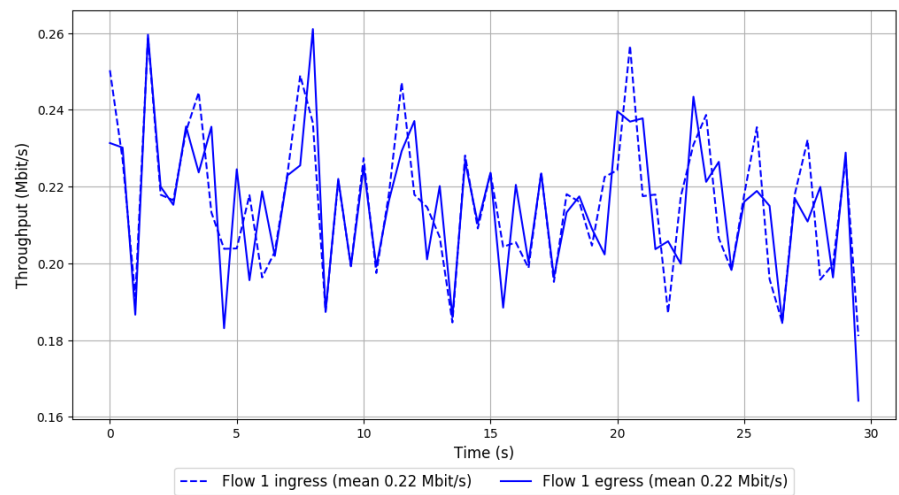
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.972 ms

Loss rate: 0.26%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-04-24 11:57:30

End at: 2018-04-24 11:58:00

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.038 ms

Loss rate: 0.00%

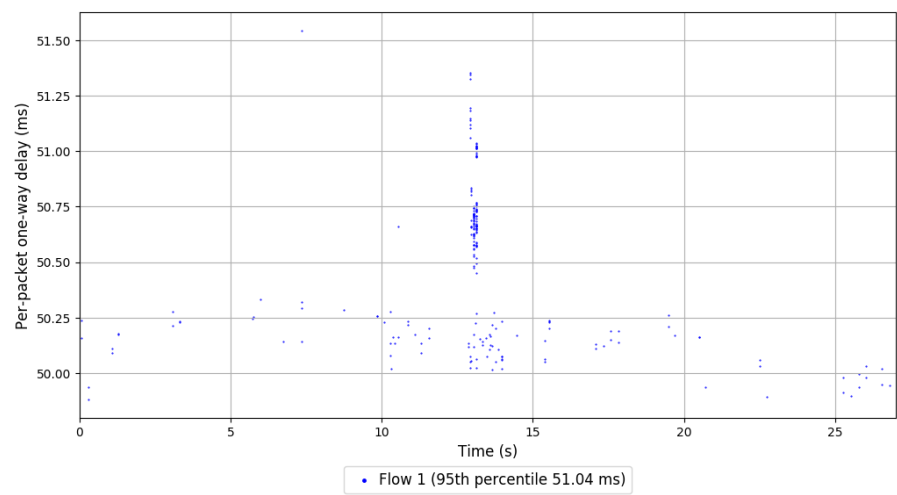
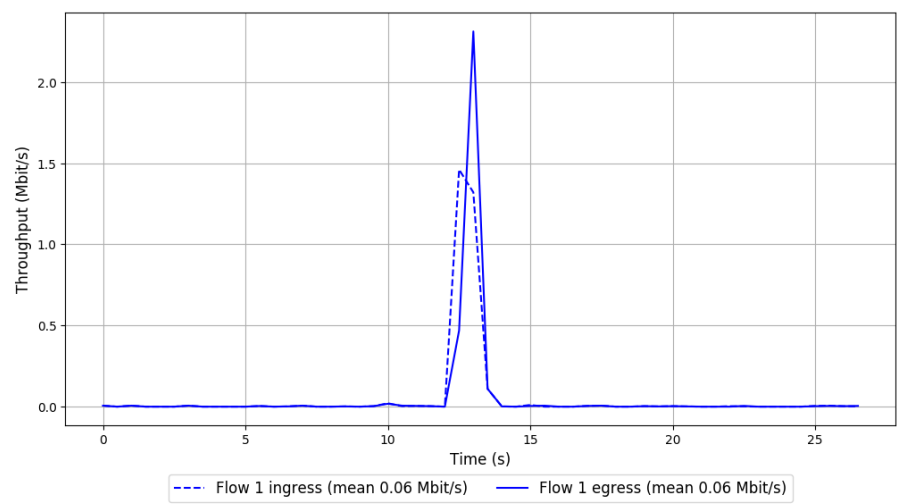
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.038 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-24 12:10:36

End at: 2018-04-24 12:11:06

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.851 ms

Loss rate: 0.00%

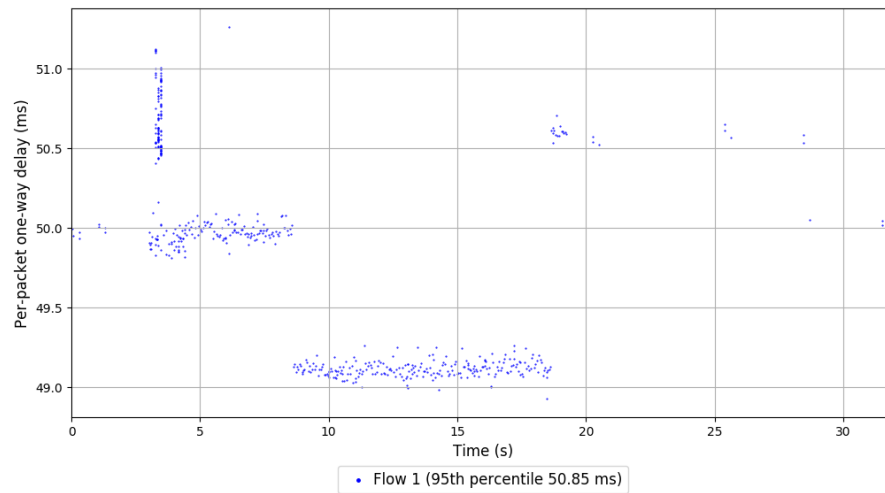
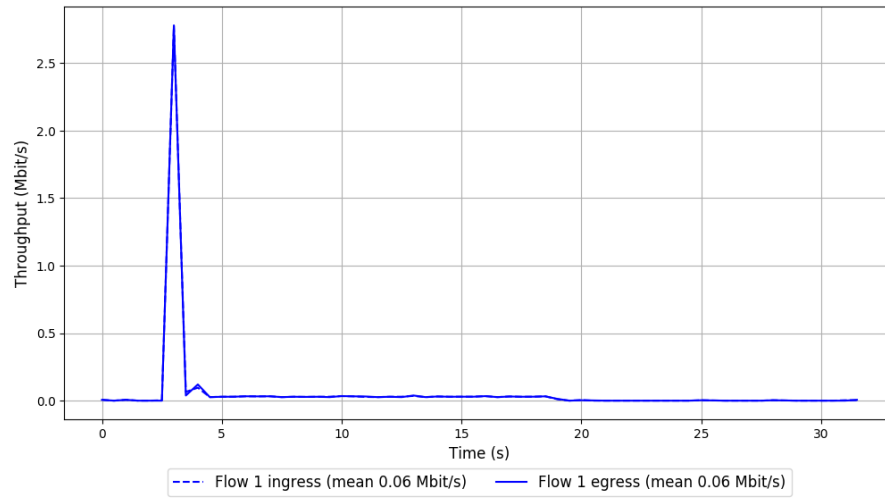
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.851 ms

Loss rate: 0.00%

## Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-24 12:23:51

End at: 2018-04-24 12:24:21

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.617 ms

Loss rate: 0.00%

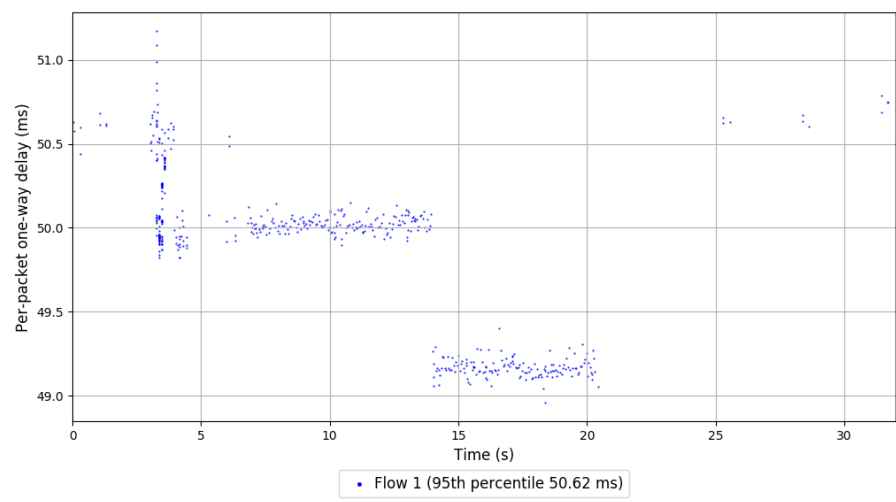
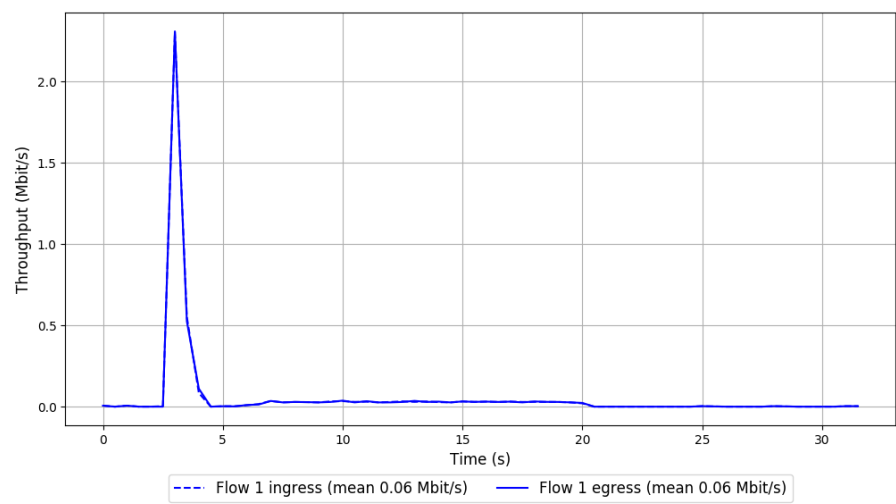
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.617 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-24 12:37:09

End at: 2018-04-24 12:37:39

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.711 ms

Loss rate: 0.00%

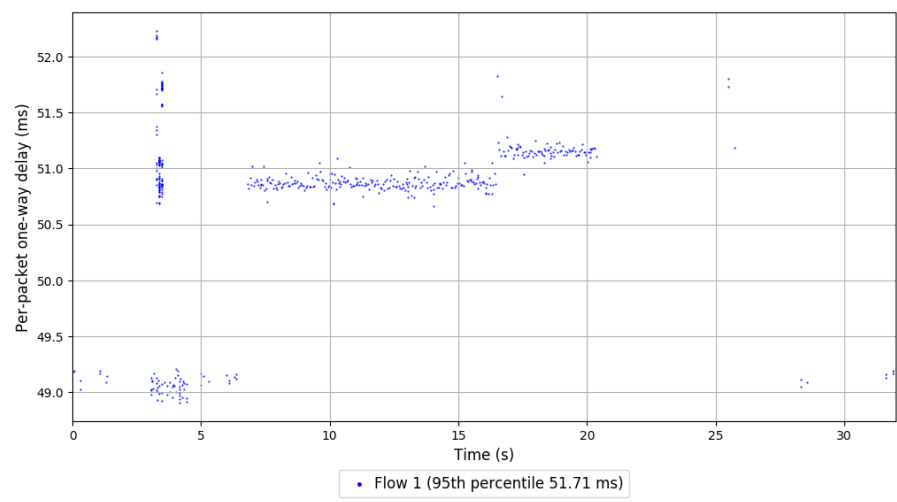
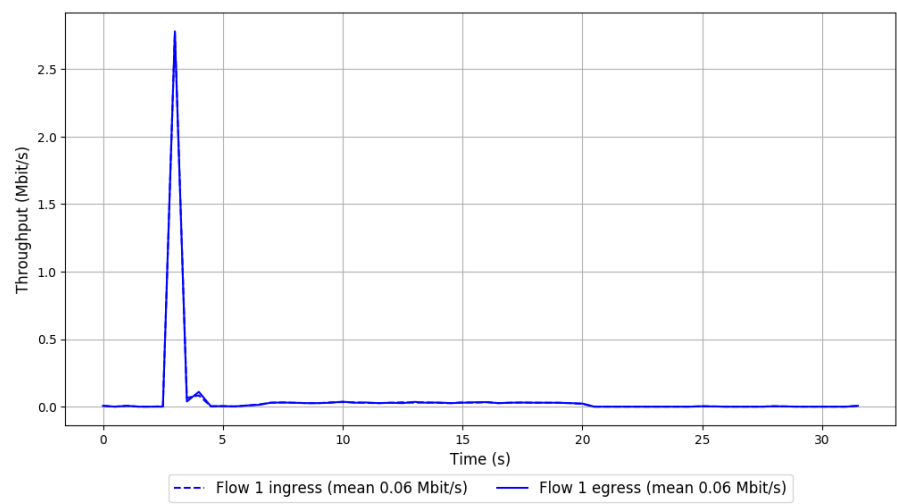
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.711 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-24 12:50:17

End at: 2018-04-24 12:50:47

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.192 ms

Loss rate: 0.00%

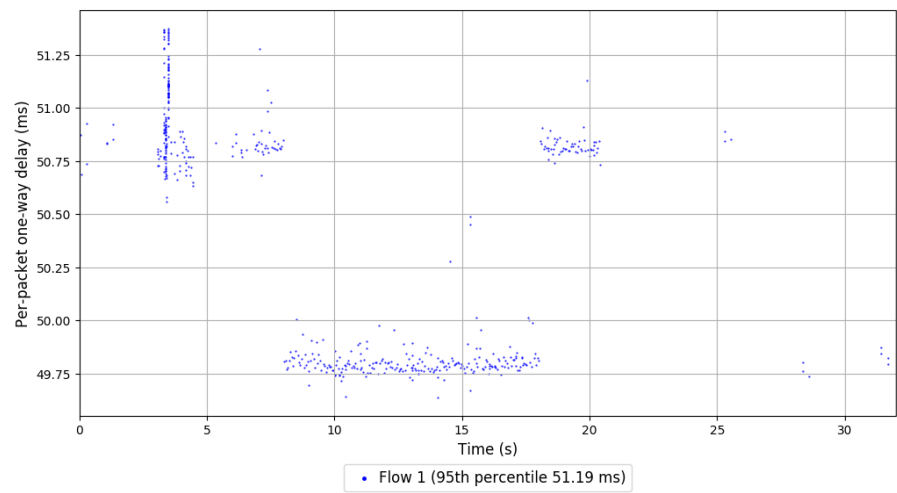
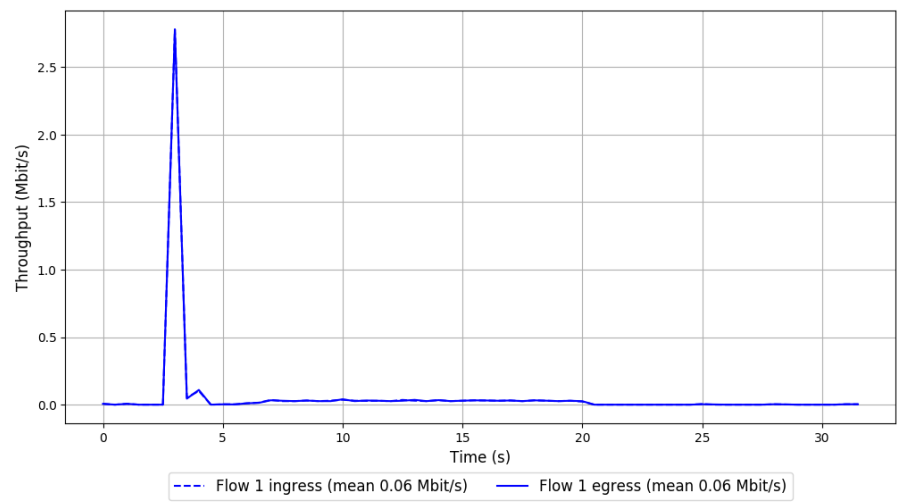
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.192 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-24 13:03:32

End at: 2018-04-24 13:04:02

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.818 ms

Loss rate: 0.00%

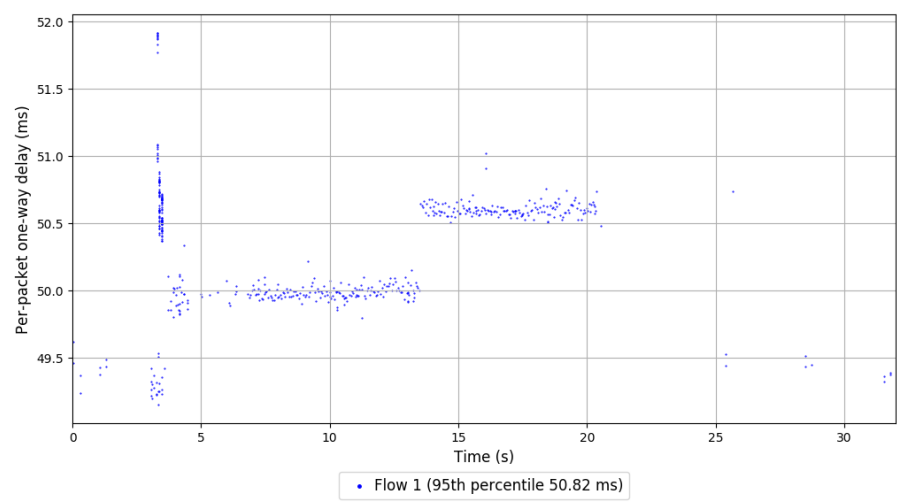
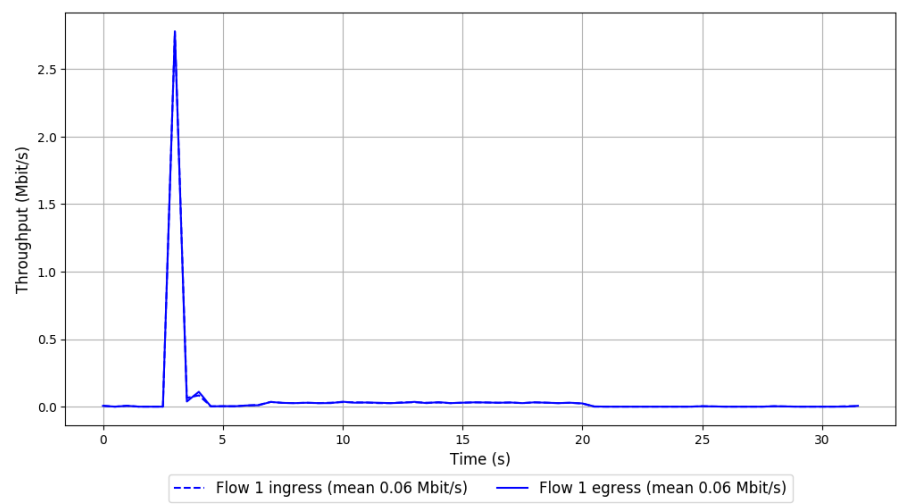
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.818 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-24 13:16:47

End at: 2018-04-24 13:17:17

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.829 ms

Loss rate: 0.00%

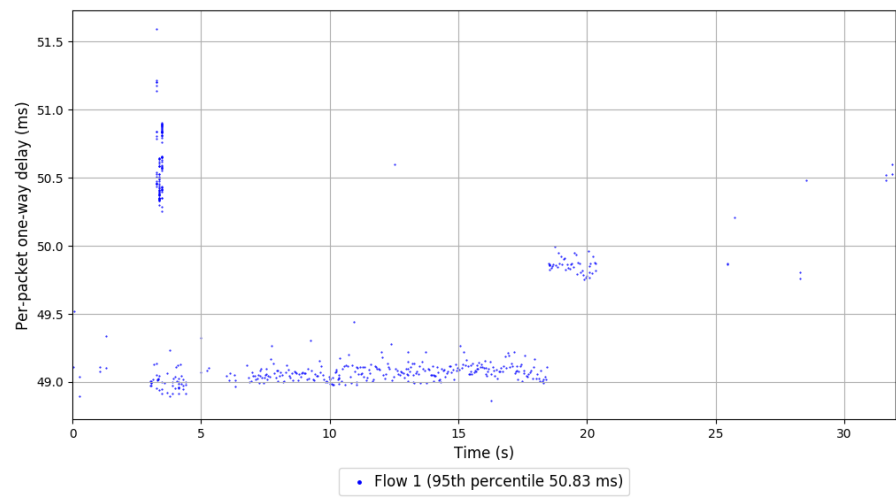
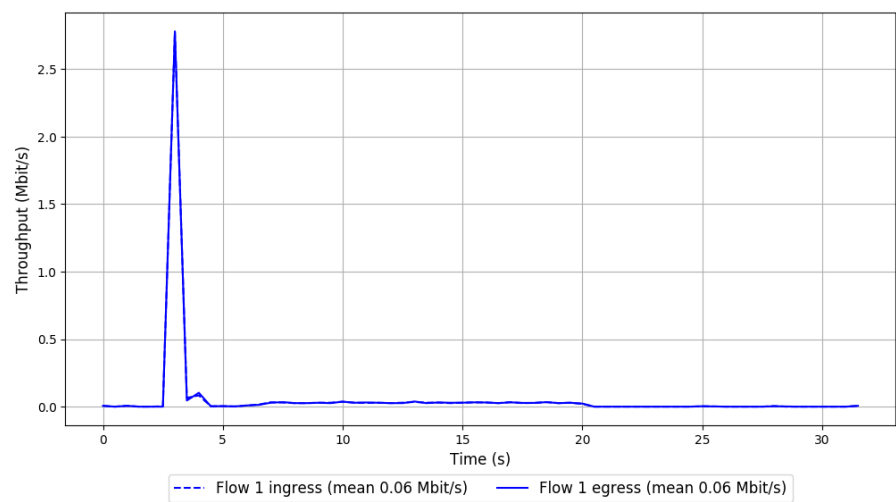
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.829 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-24 13:30:05

End at: 2018-04-24 13:30:35

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.078 ms

Loss rate: 0.00%

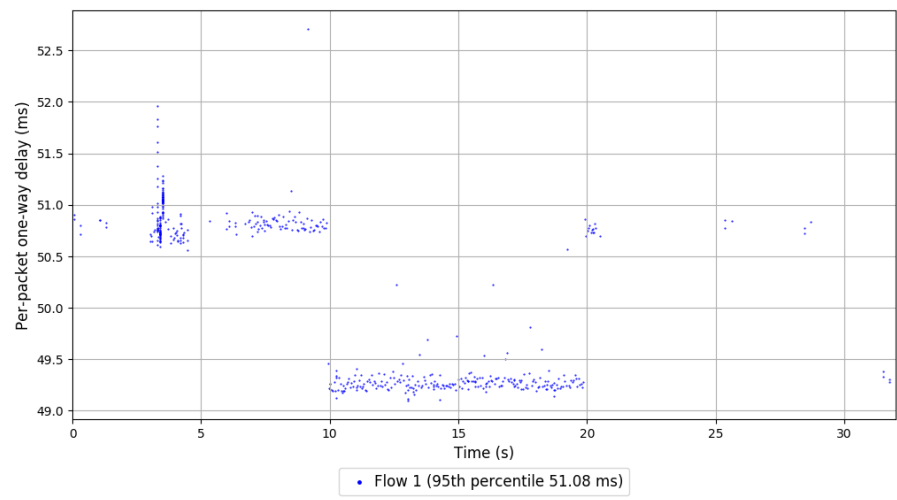
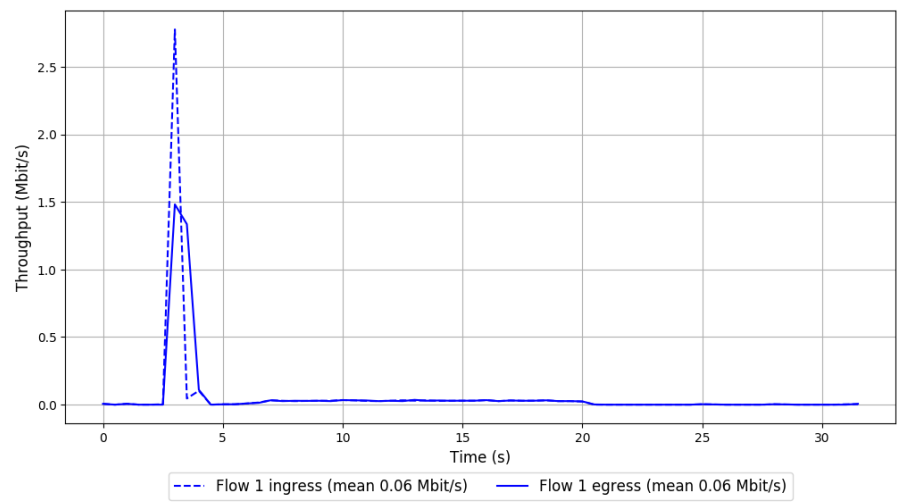
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.078 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-24 13:43:20

End at: 2018-04-24 13:43:50

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.572 ms

Loss rate: 0.00%

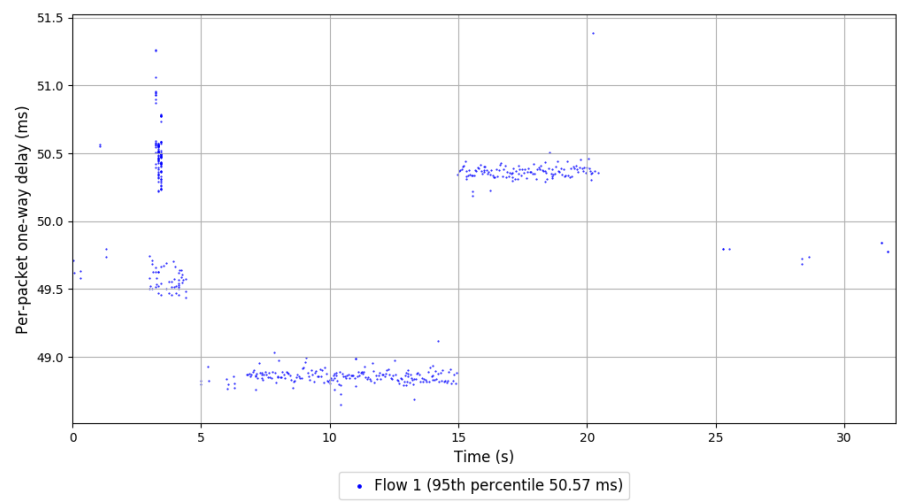
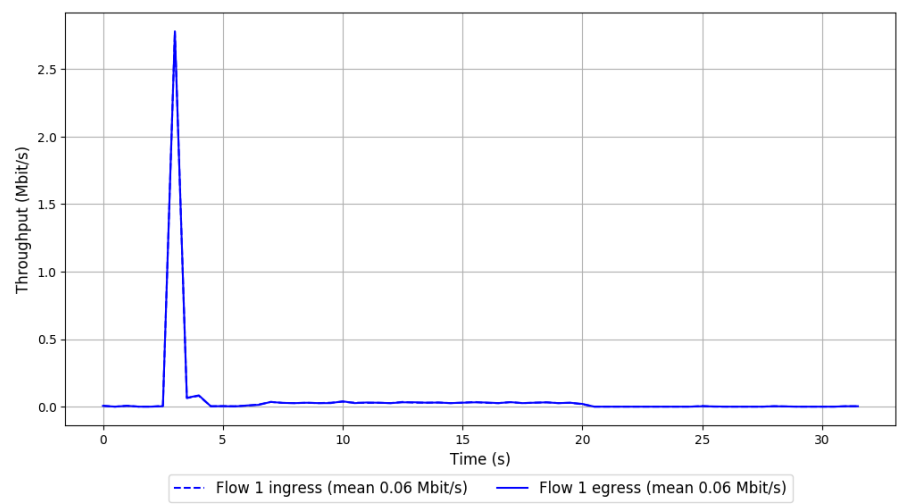
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.572 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-24 13:56:29

End at: 2018-04-24 13:56:59

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.058 ms

Loss rate: 0.00%

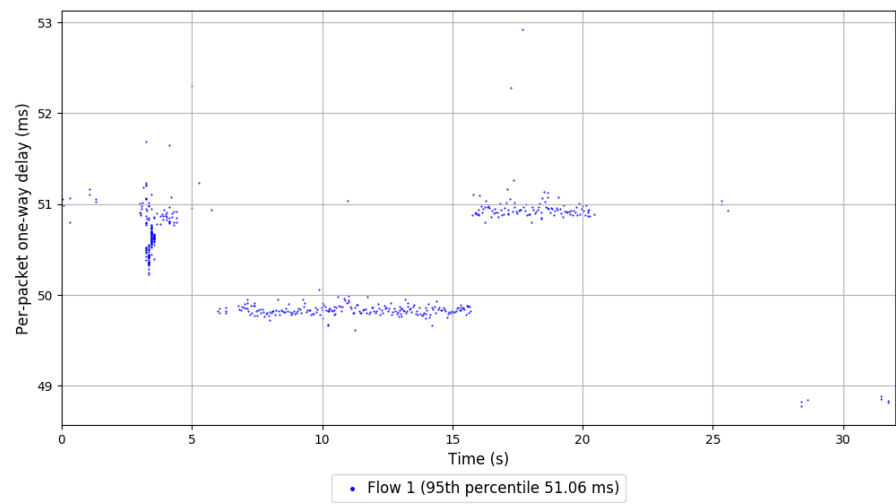
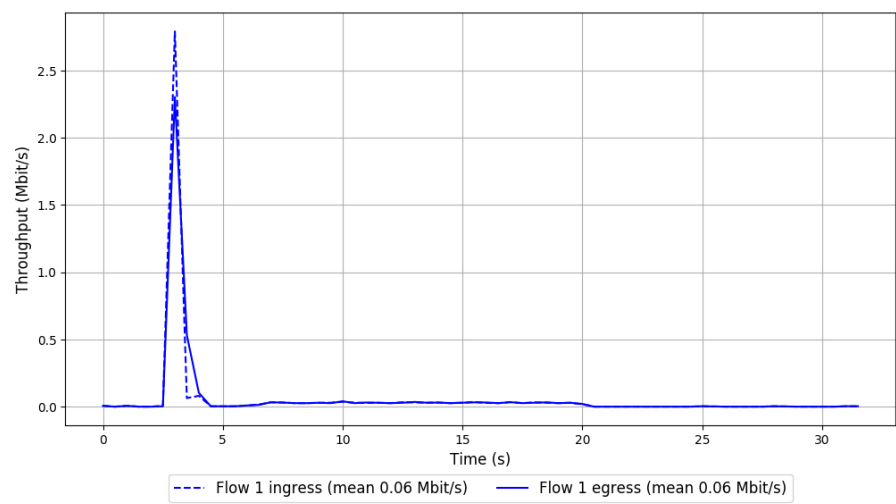
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.058 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-24 11:51:46

End at: 2018-04-24 11:52:16

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 51.555 ms

Loss rate: 0.43%

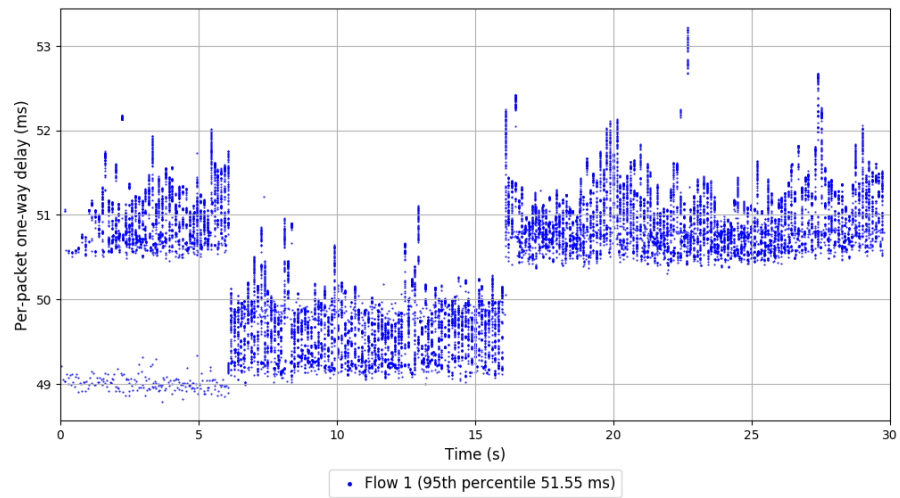
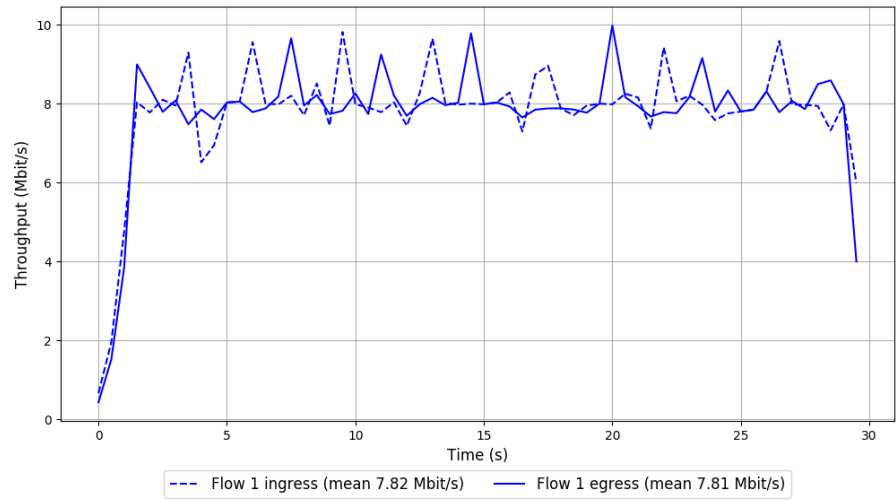
-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 51.555 ms

Loss rate: 0.43%

# Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-24 12:04:53

End at: 2018-04-24 12:05:23

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.665 ms

Loss rate: 0.37%

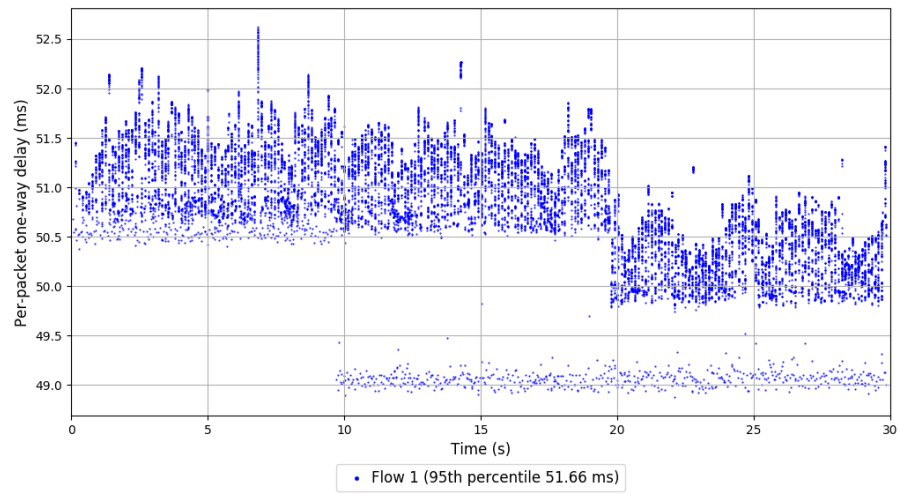
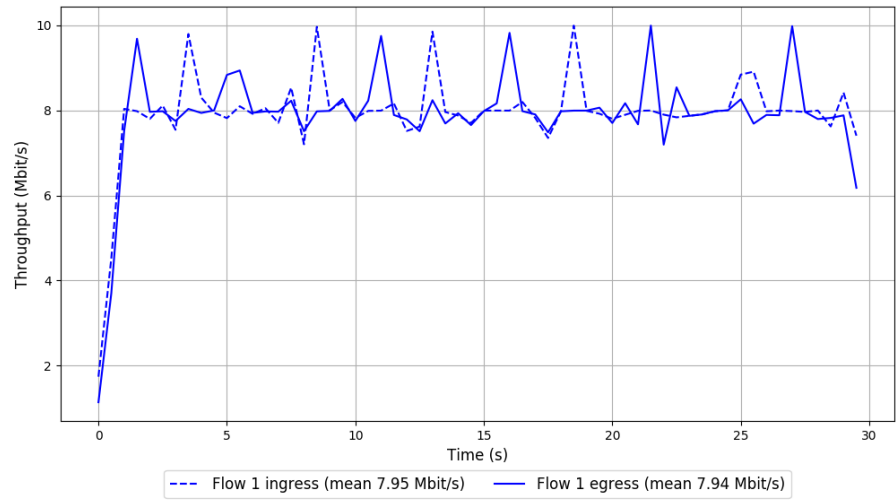
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.665 ms

Loss rate: 0.37%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-24 12:18:05

End at: 2018-04-24 12:18:35

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 51.740 ms

Loss rate: 0.41%

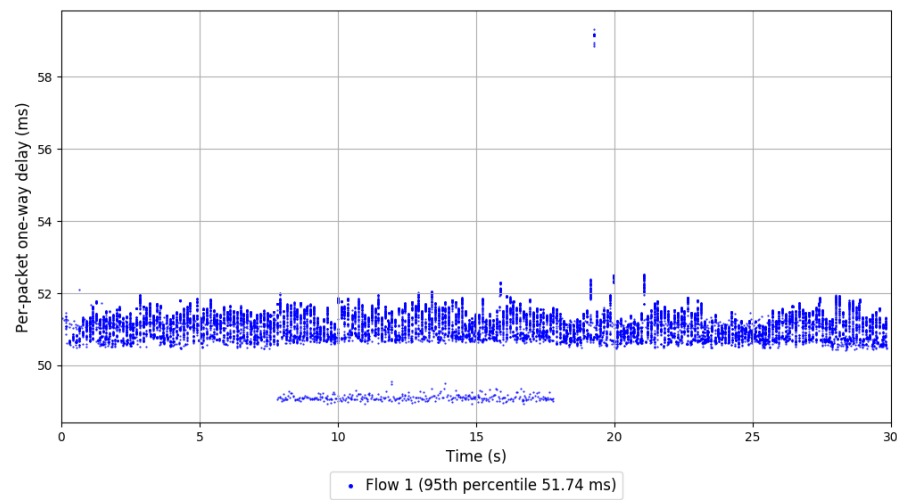
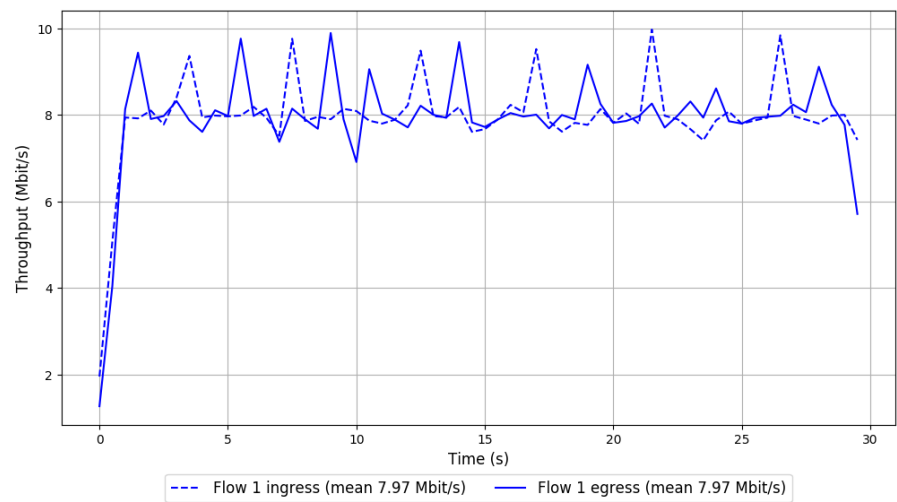
-- Flow 1:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 51.740 ms

Loss rate: 0.41%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-24 12:31:23

End at: 2018-04-24 12:31:53

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 52.024 ms

Loss rate: 0.42%

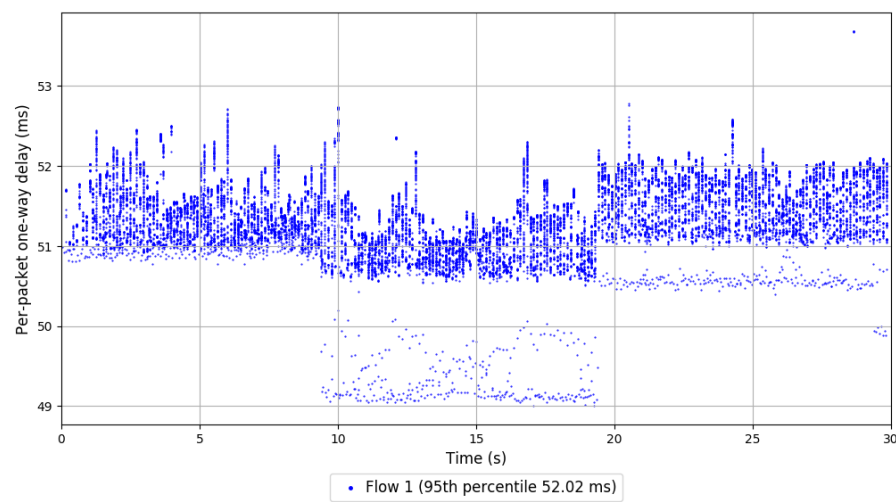
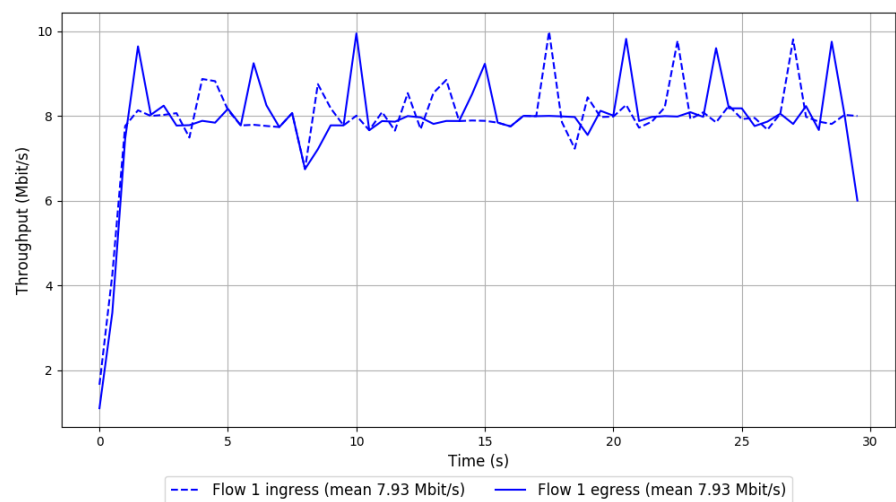
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 52.024 ms

Loss rate: 0.42%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-24 12:44:34

End at: 2018-04-24 12:45:04

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 52.114 ms

Loss rate: 0.05%

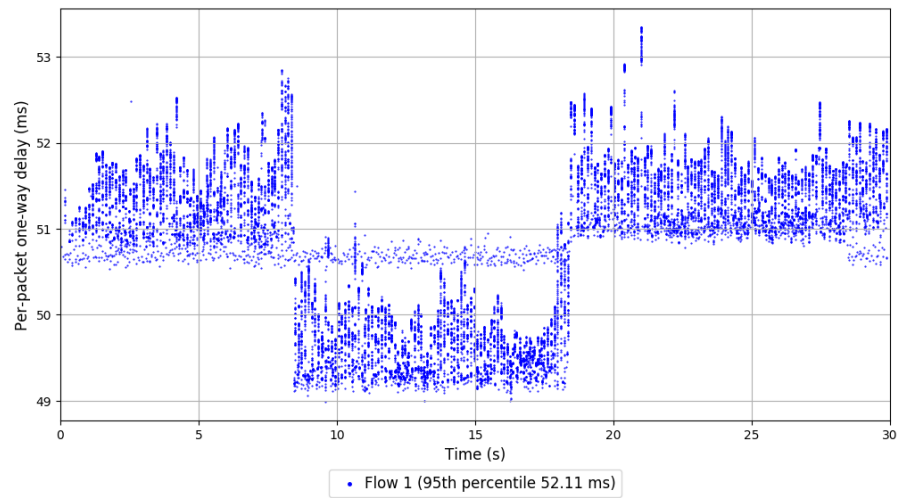
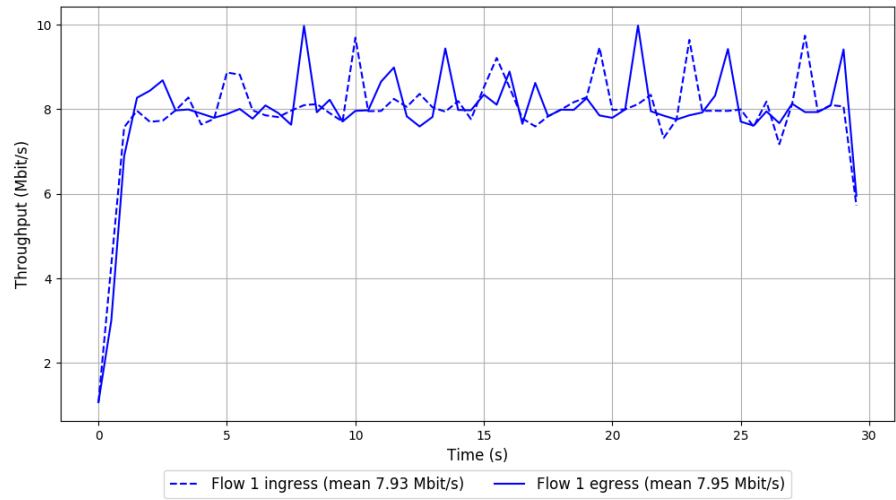
-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 52.114 ms

Loss rate: 0.05%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-24 12:57:45

End at: 2018-04-24 12:58:15

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 51.535 ms

Loss rate: 0.41%

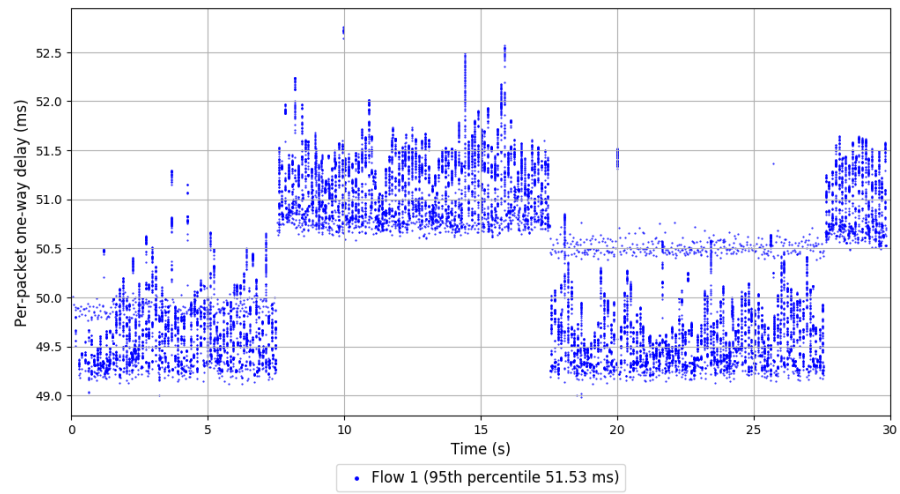
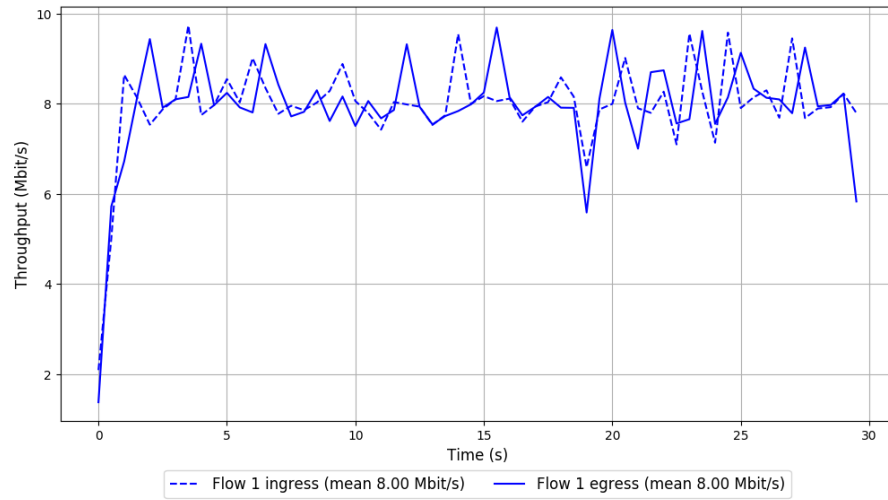
-- Flow 1:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 51.535 ms

Loss rate: 0.41%

## Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-24 13:11:04

End at: 2018-04-24 13:11:34

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.771 ms

Loss rate: 0.37%

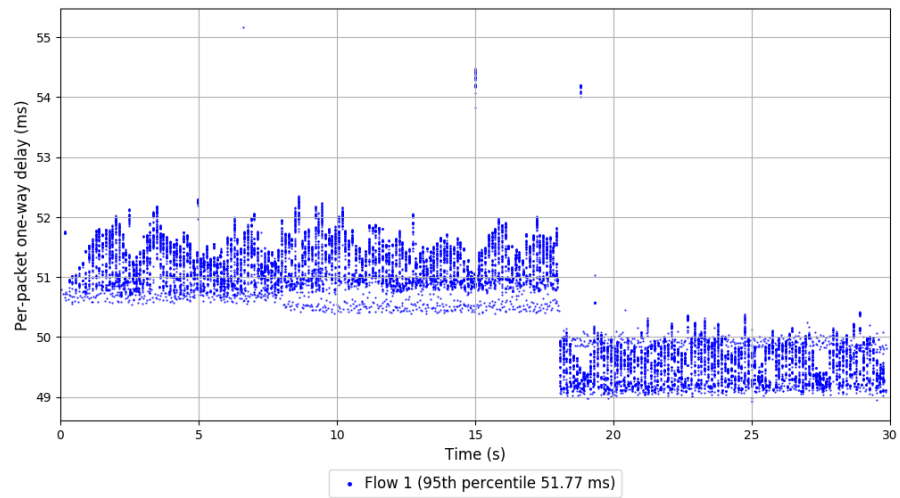
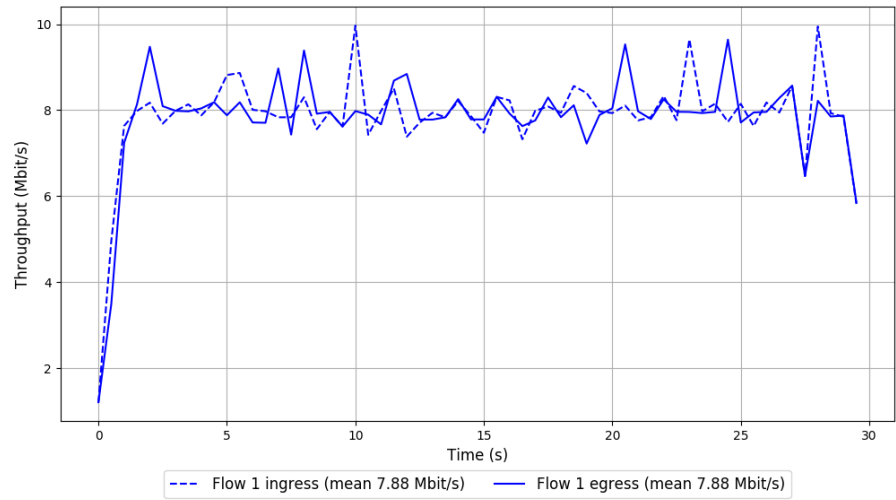
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.771 ms

Loss rate: 0.37%

### Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-24 13:24:21

End at: 2018-04-24 13:24:51

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.481 ms

Loss rate: 0.17%

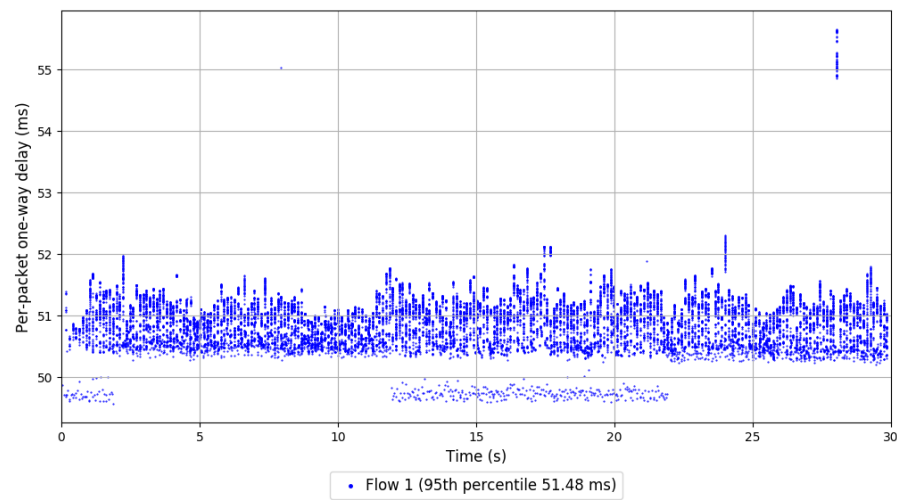
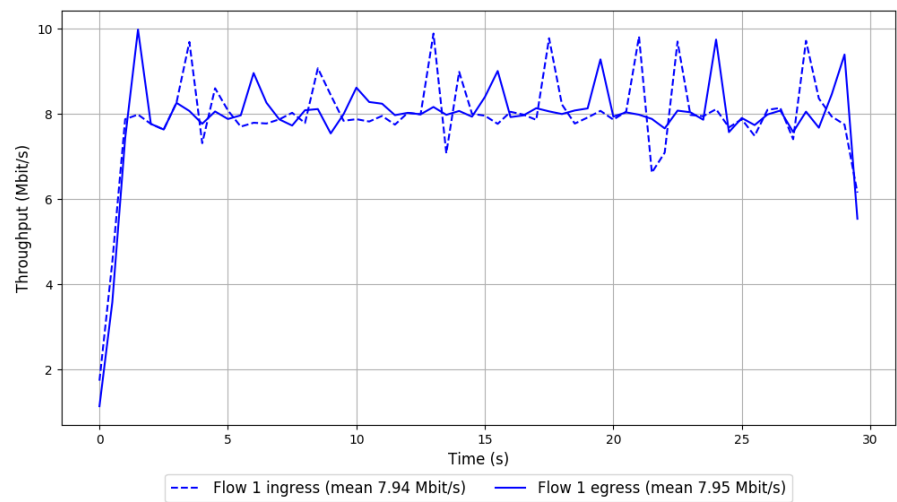
-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.481 ms

Loss rate: 0.17%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-24 13:37:35

End at: 2018-04-24 13:38:05

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 51.529 ms

Loss rate: 0.41%

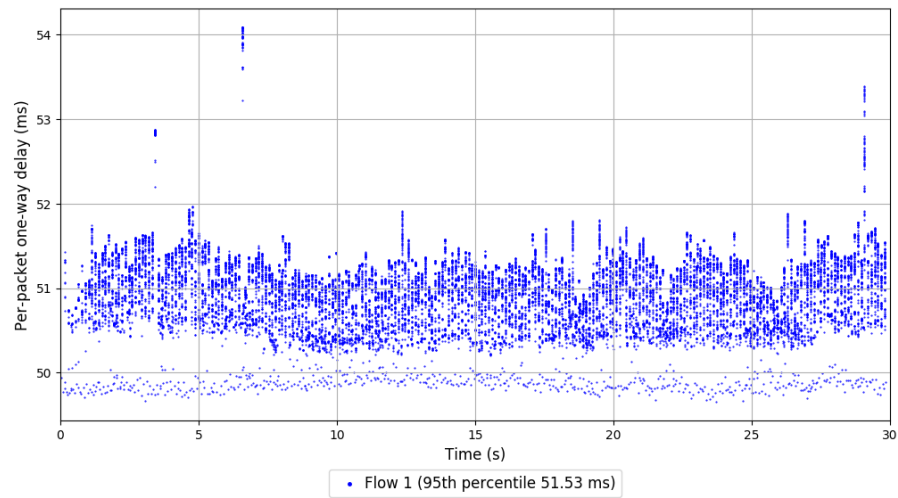
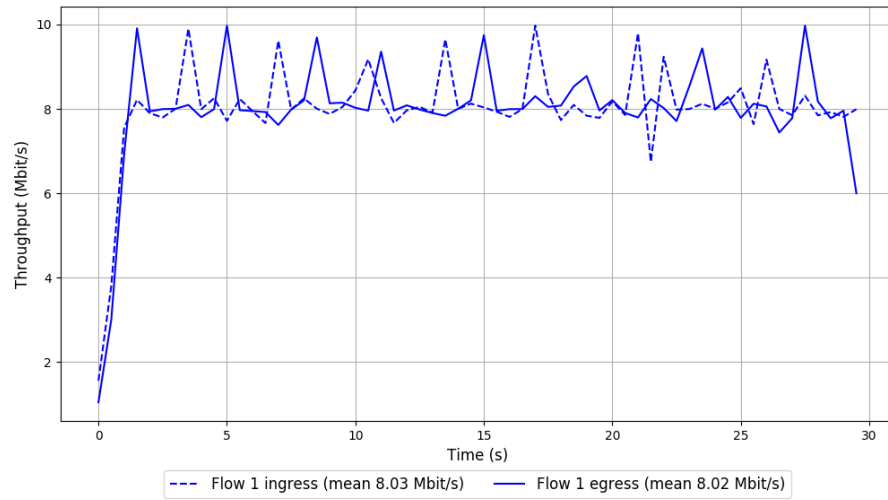
-- Flow 1:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 51.529 ms

Loss rate: 0.41%

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



Run 10: Statistics of Sprout

Start at: 2018-04-24 13:50:47

End at: 2018-04-24 13:51:17

# Below is generated by plot.py at 2018-04-24 16:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.452 ms

Loss rate: 0.01%

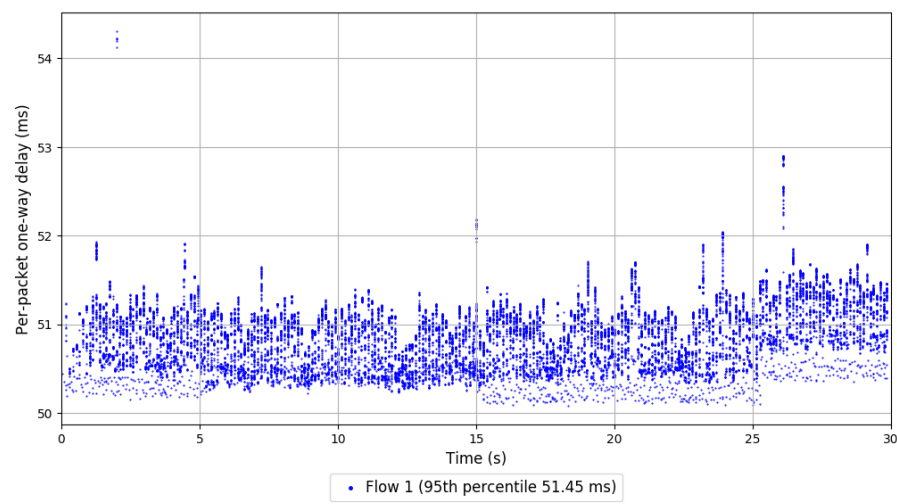
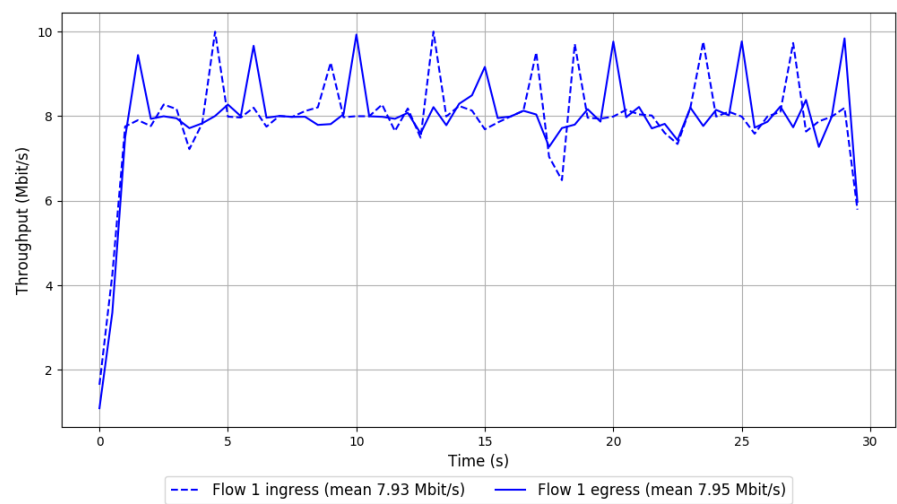
-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.452 ms

Loss rate: 0.01%

Run 10: Report of Sprout — Data Link

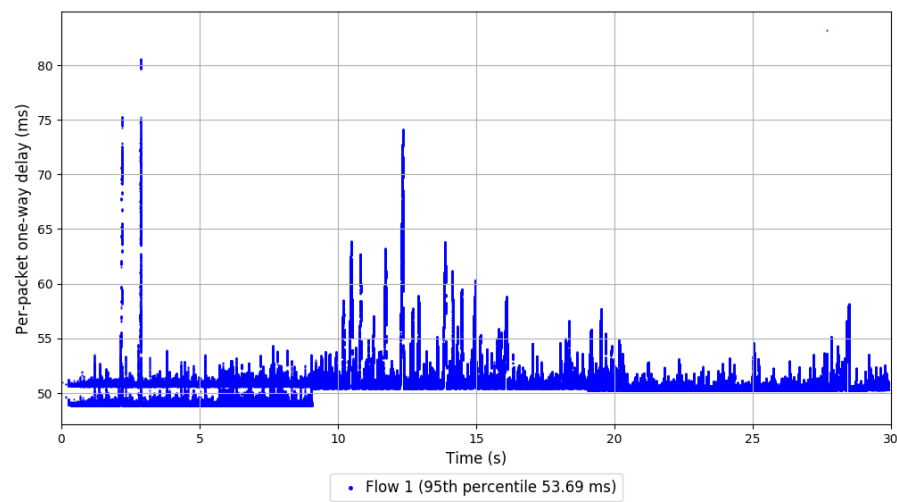
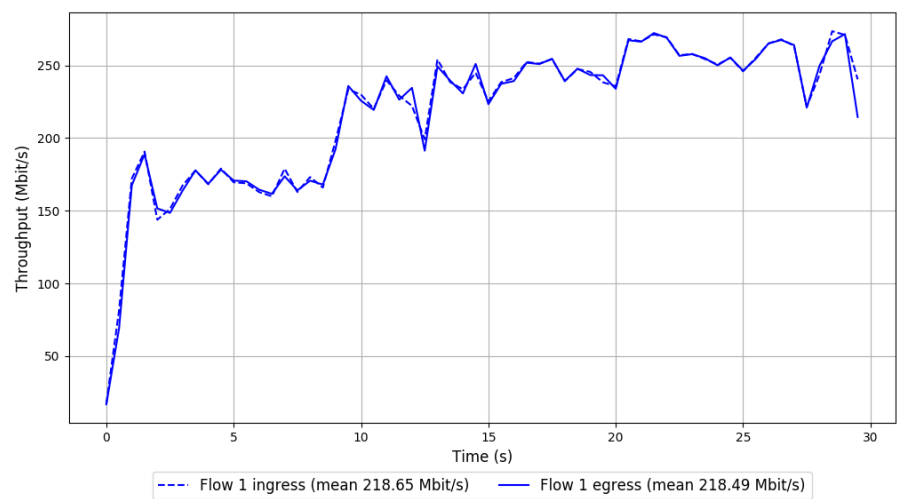


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 11:52:23
End at: 2018-04-24 11:52:53

# Below is generated by plot.py at 2018-04-24 16:46:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.49 Mbit/s
95th percentile per-packet one-way delay: 53.689 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 218.49 Mbit/s
95th percentile per-packet one-way delay: 53.689 ms
Loss rate: 0.41%
```

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

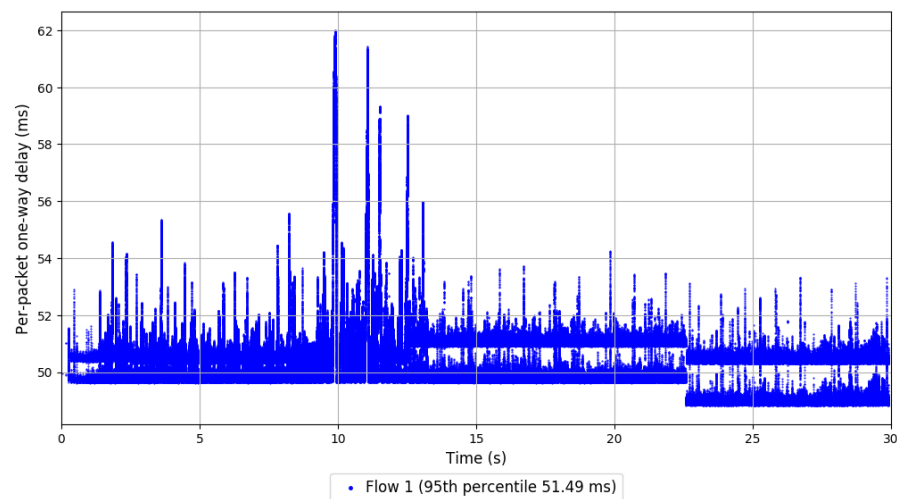
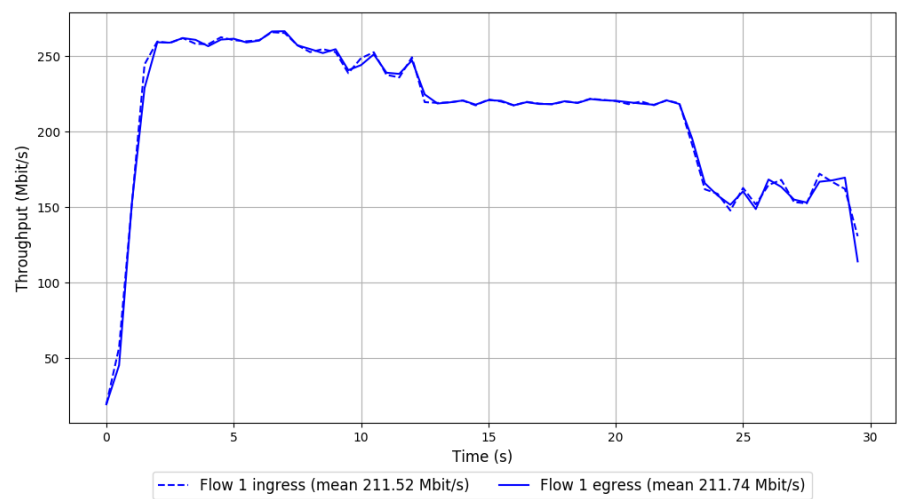


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-24 12:05:30
End at: 2018-04-24 12:06:00

# Below is generated by plot.py at 2018-04-24 16:46:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.74 Mbit/s
95th percentile per-packet one-way delay: 51.490 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 211.74 Mbit/s
95th percentile per-packet one-way delay: 51.490 ms
Loss rate: 0.23%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-24 12:18:42

End at: 2018-04-24 12:19:12

# Below is generated by plot.py at 2018-04-24 16:47:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 241.47 Mbit/s

95th percentile per-packet one-way delay: 54.355 ms

Loss rate: 0.38%

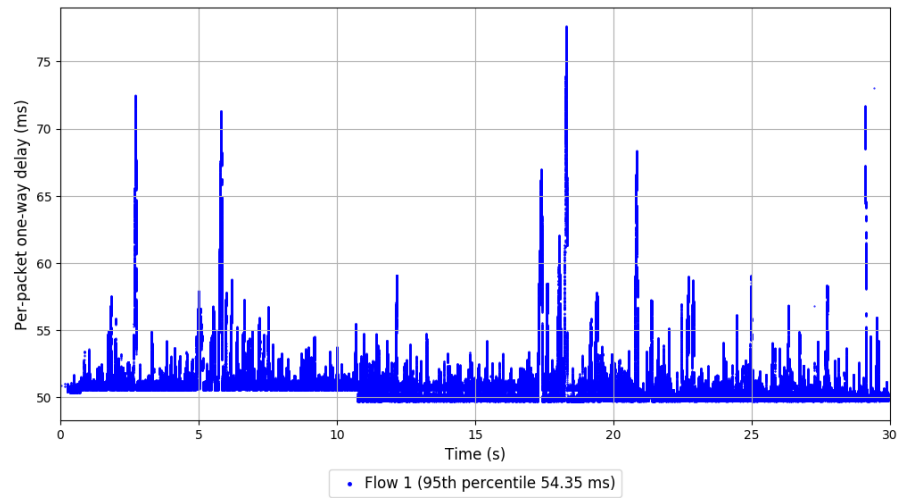
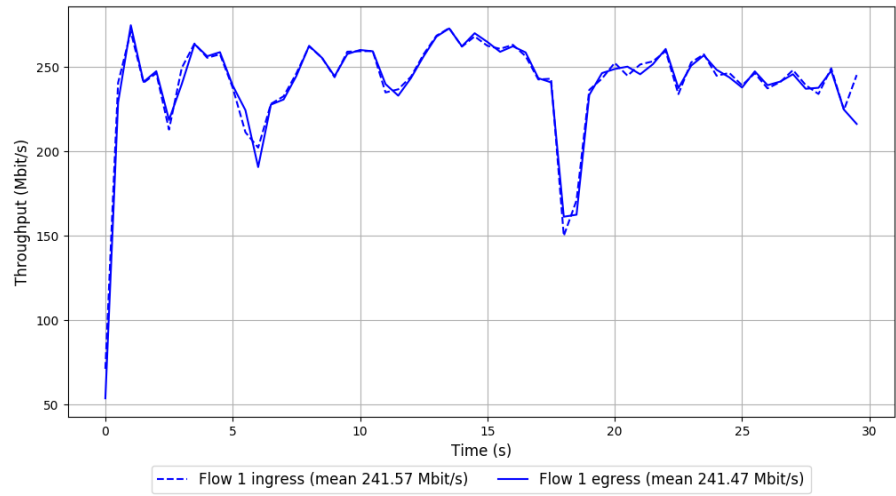
-- Flow 1:

Average throughput: 241.47 Mbit/s

95th percentile per-packet one-way delay: 54.355 ms

Loss rate: 0.38%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-24 12:32:00

End at: 2018-04-24 12:32:30

# Below is generated by plot.py at 2018-04-24 16:47:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 225.84 Mbit/s

95th percentile per-packet one-way delay: 51.848 ms

Loss rate: 0.36%

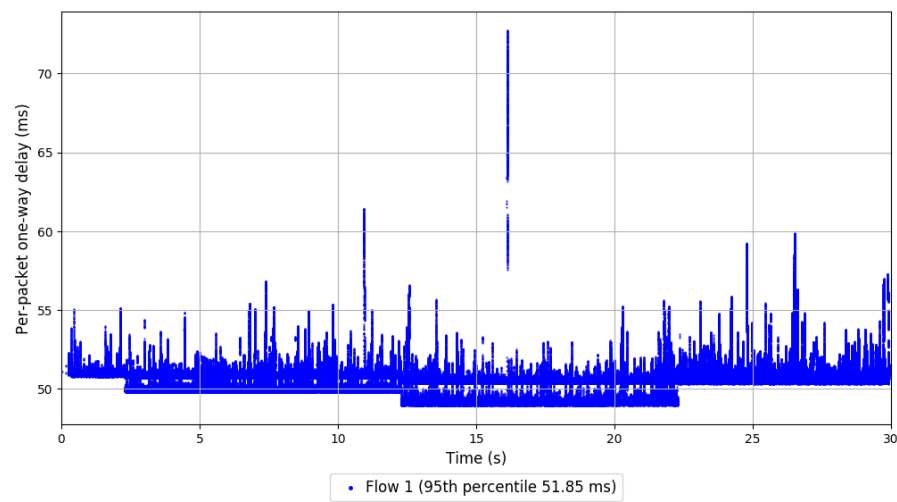
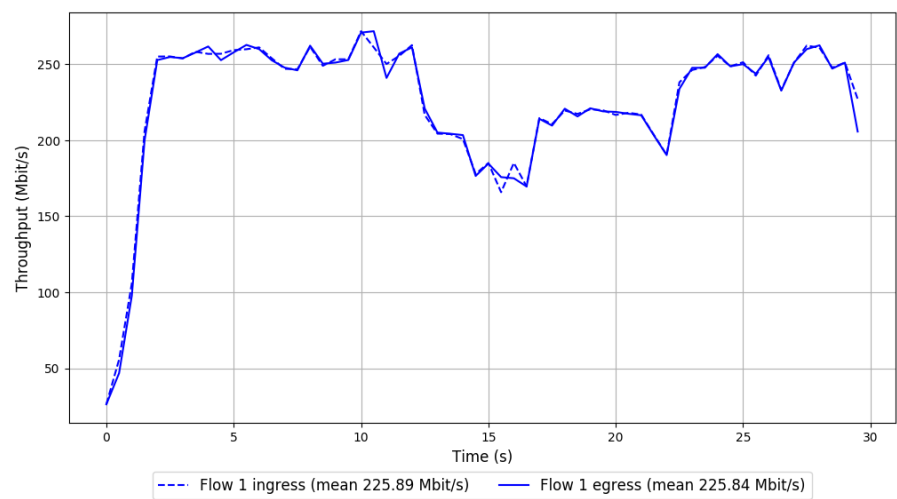
-- Flow 1:

Average throughput: 225.84 Mbit/s

95th percentile per-packet one-way delay: 51.848 ms

Loss rate: 0.36%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 12:45:11

End at: 2018-04-24 12:45:41

# Below is generated by plot.py at 2018-04-24 16:47:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 214.71 Mbit/s

95th percentile per-packet one-way delay: 51.885 ms

Loss rate: 0.14%

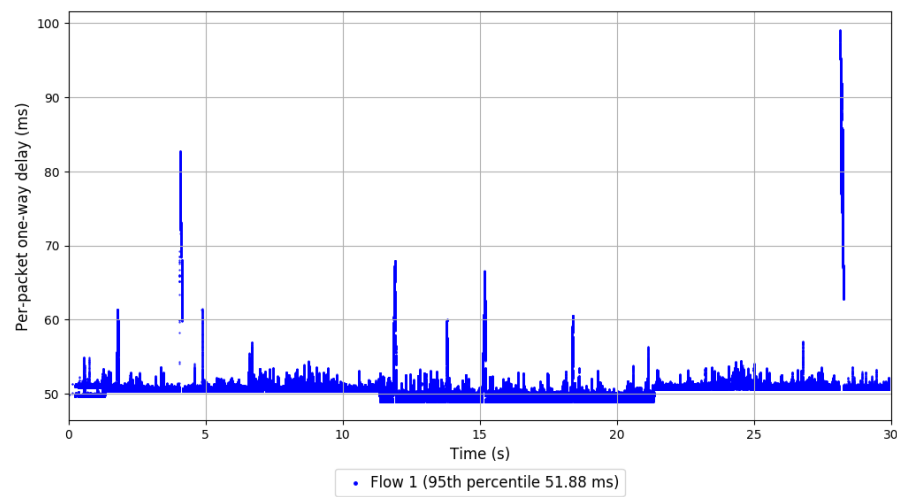
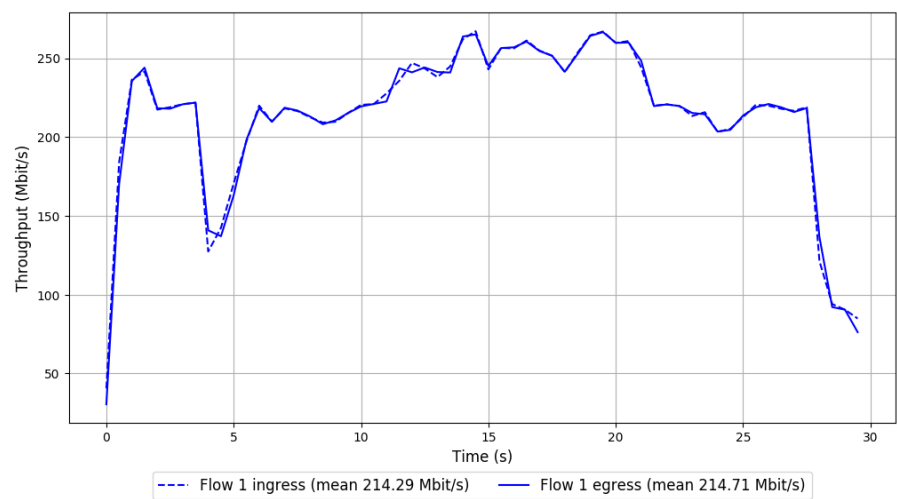
-- Flow 1:

Average throughput: 214.71 Mbit/s

95th percentile per-packet one-way delay: 51.885 ms

Loss rate: 0.14%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-24 12:58:22

End at: 2018-04-24 12:58:52

# Below is generated by plot.py at 2018-04-24 16:47:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.93 Mbit/s

95th percentile per-packet one-way delay: 53.005 ms

Loss rate: 0.39%

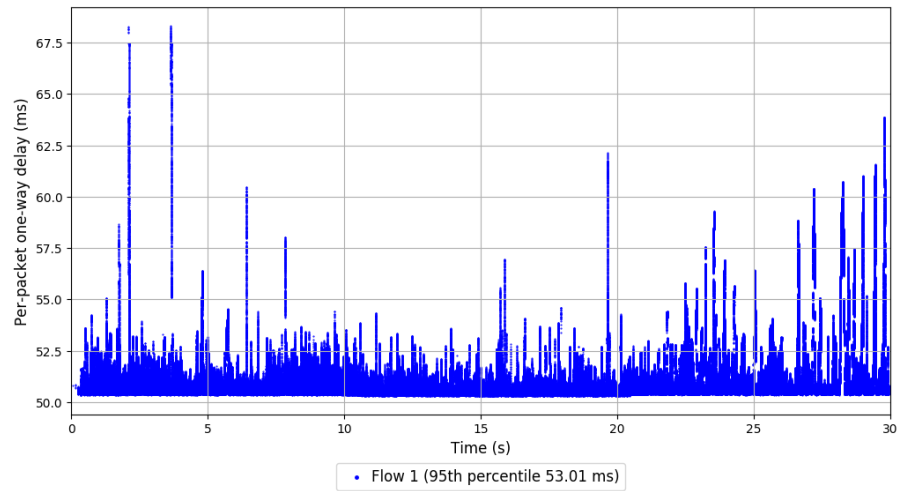
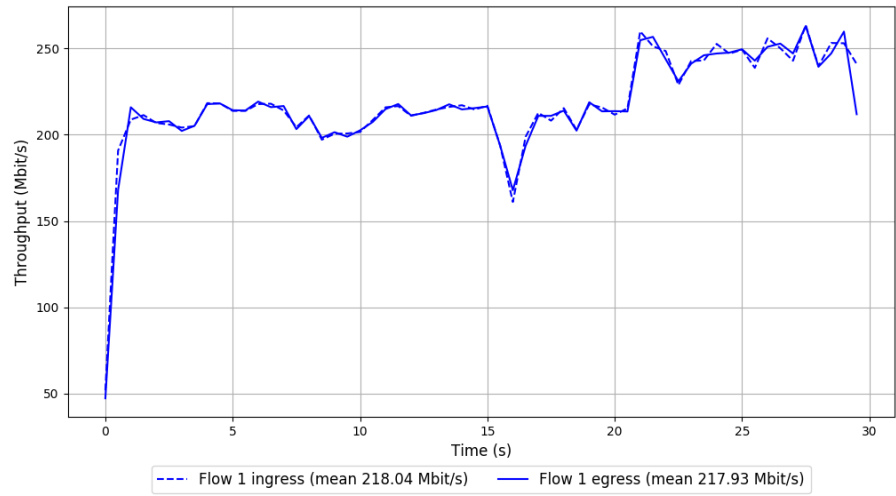
-- Flow 1:

Average throughput: 217.93 Mbit/s

95th percentile per-packet one-way delay: 53.005 ms

Loss rate: 0.39%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 13:11:42

End at: 2018-04-24 13:12:12

# Below is generated by plot.py at 2018-04-24 16:52:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 179.89 Mbit/s

95th percentile per-packet one-way delay: 52.495 ms

Loss rate: 0.17%

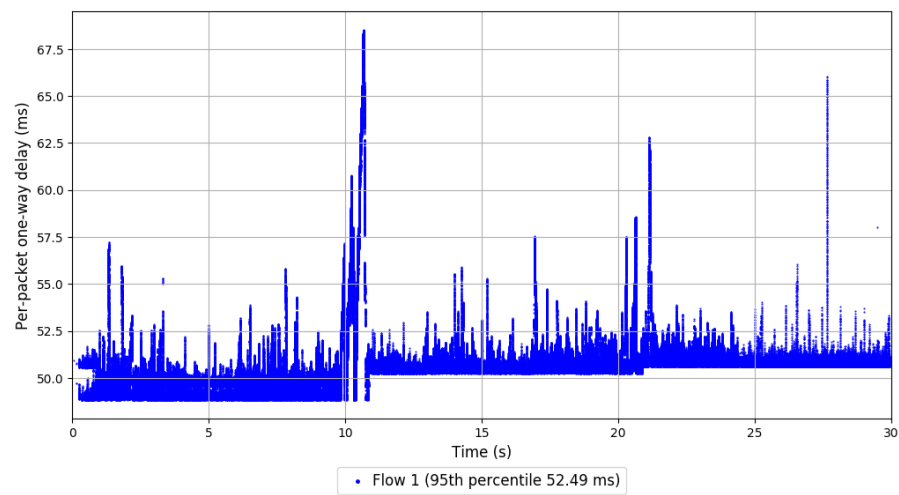
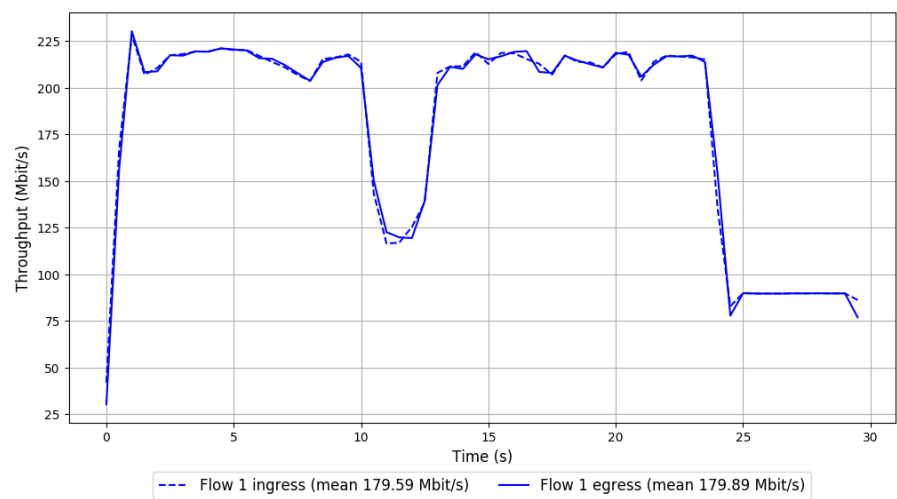
-- Flow 1:

Average throughput: 179.89 Mbit/s

95th percentile per-packet one-way delay: 52.495 ms

Loss rate: 0.17%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 13:24:58

End at: 2018-04-24 13:25:28

# Below is generated by plot.py at 2018-04-24 16:53:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 220.04 Mbit/s

95th percentile per-packet one-way delay: 53.640 ms

Loss rate: 0.35%

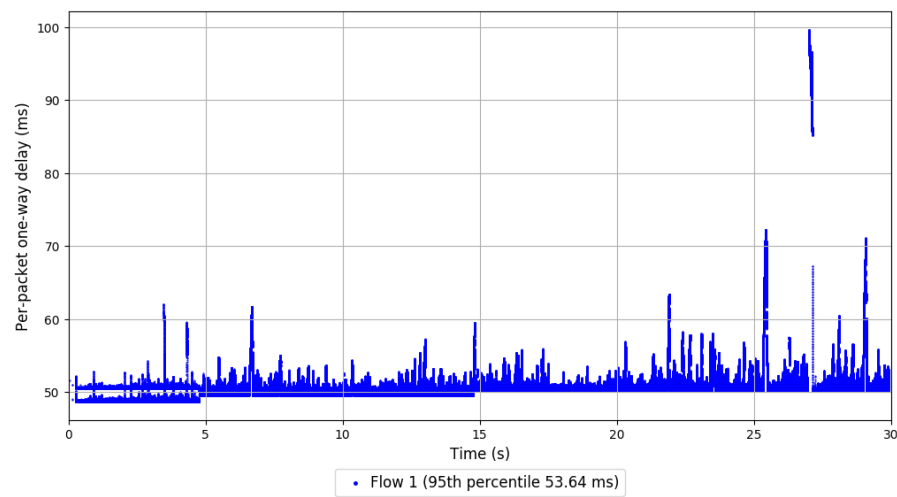
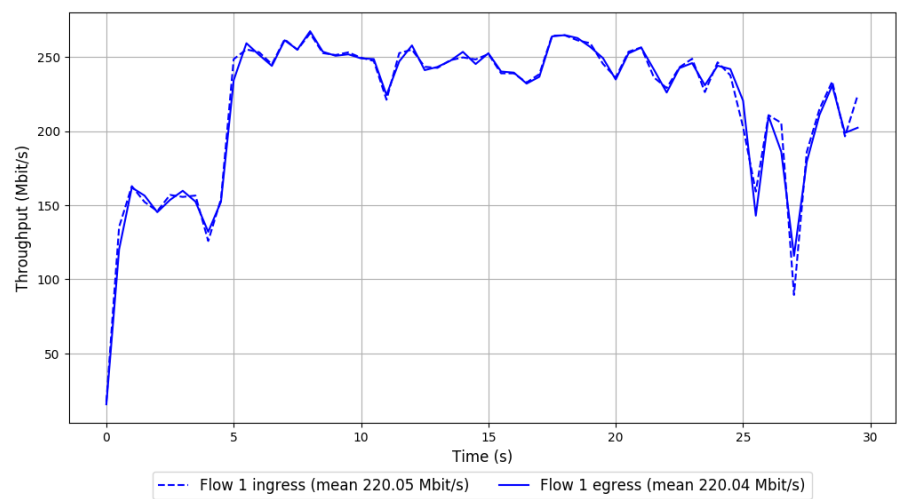
-- Flow 1:

Average throughput: 220.04 Mbit/s

95th percentile per-packet one-way delay: 53.640 ms

Loss rate: 0.35%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-24 13:38:12

End at: 2018-04-24 13:38:42

# Below is generated by plot.py at 2018-04-24 16:53:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 202.96 Mbit/s

95th percentile per-packet one-way delay: 53.592 ms

Loss rate: 0.42%

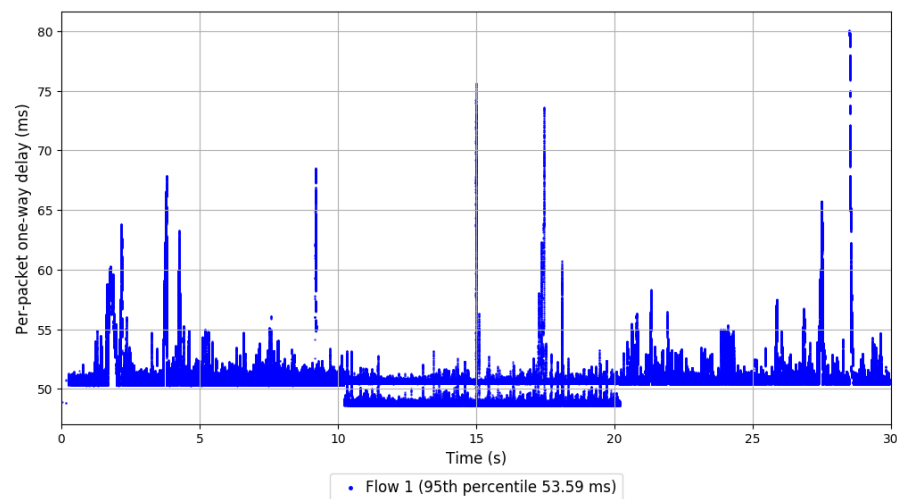
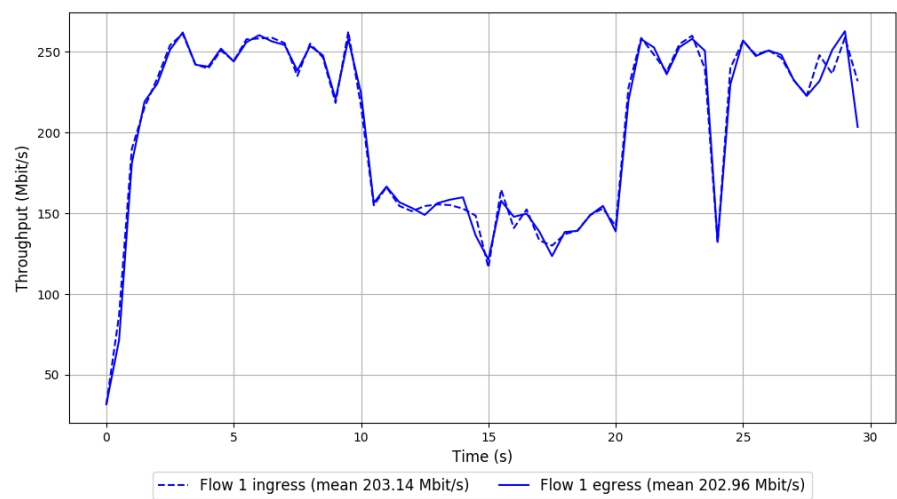
-- Flow 1:

Average throughput: 202.96 Mbit/s

95th percentile per-packet one-way delay: 53.592 ms

Loss rate: 0.42%

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

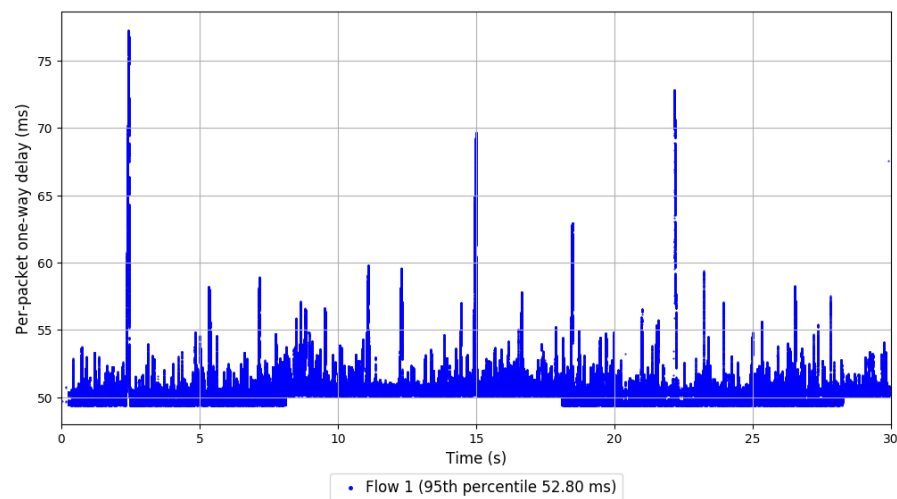
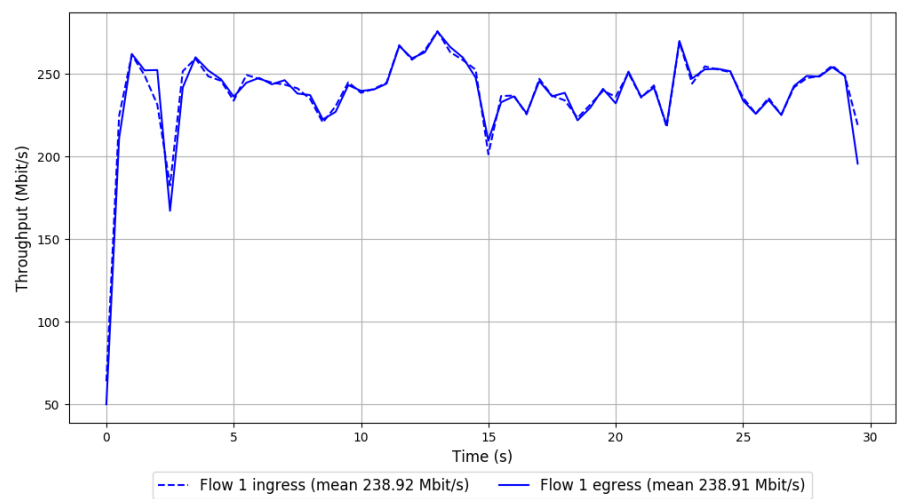


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-24 13:51:24
End at: 2018-04-24 13:51:54

# Below is generated by plot.py at 2018-04-24 16:54:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.91 Mbit/s
95th percentile per-packet one-way delay: 52.797 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 238.91 Mbit/s
95th percentile per-packet one-way delay: 52.797 ms
Loss rate: 0.34%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 11:58:06

End at: 2018-04-24 11:58:36

# Below is generated by plot.py at 2018-04-24 16:54:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.85 Mbit/s

95th percentile per-packet one-way delay: 52.066 ms

Loss rate: 0.37%

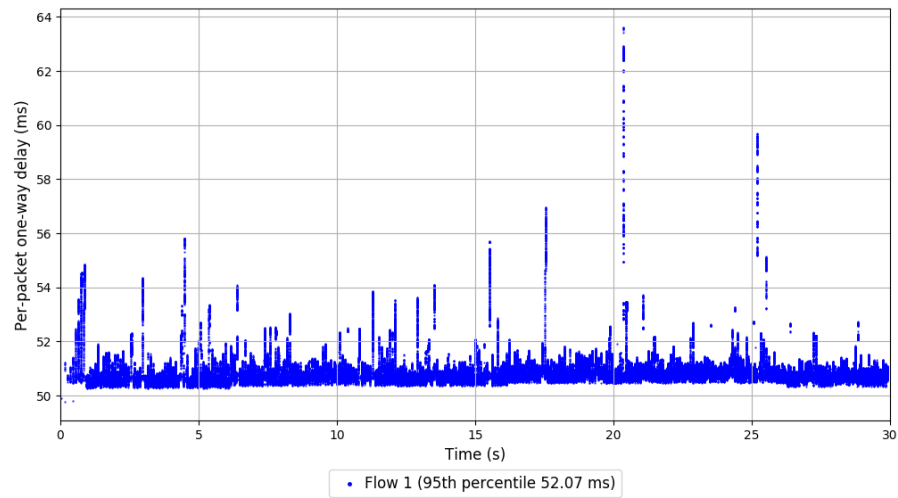
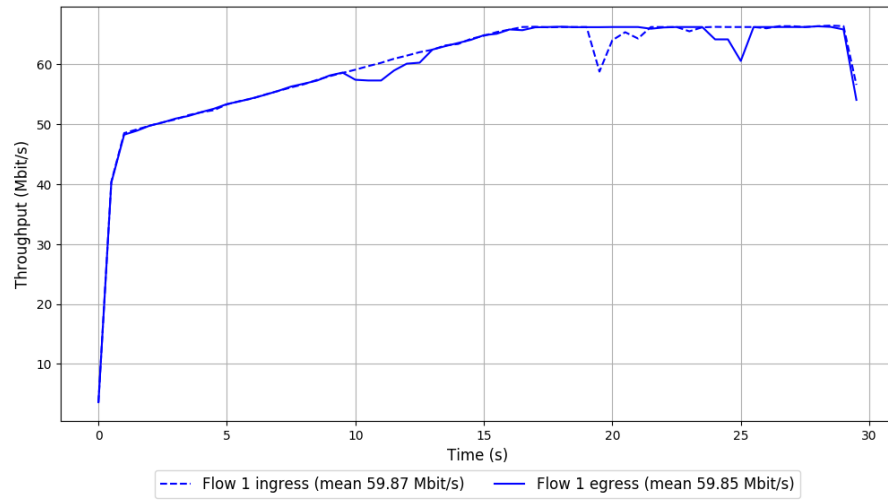
-- Flow 1:

Average throughput: 59.85 Mbit/s

95th percentile per-packet one-way delay: 52.066 ms

Loss rate: 0.37%

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



Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 12:11:13

End at: 2018-04-24 12:11:43

# Below is generated by plot.py at 2018-04-24 16:54:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.58 Mbit/s

95th percentile per-packet one-way delay: 51.623 ms

Loss rate: 0.36%

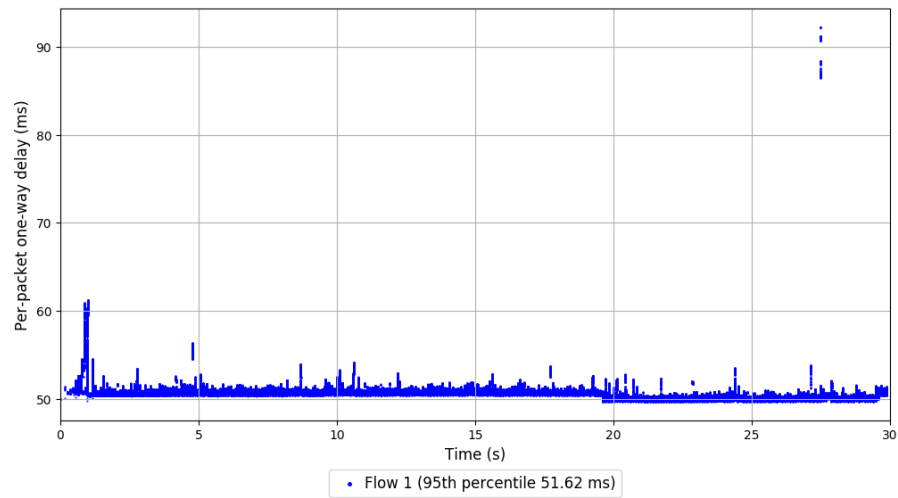
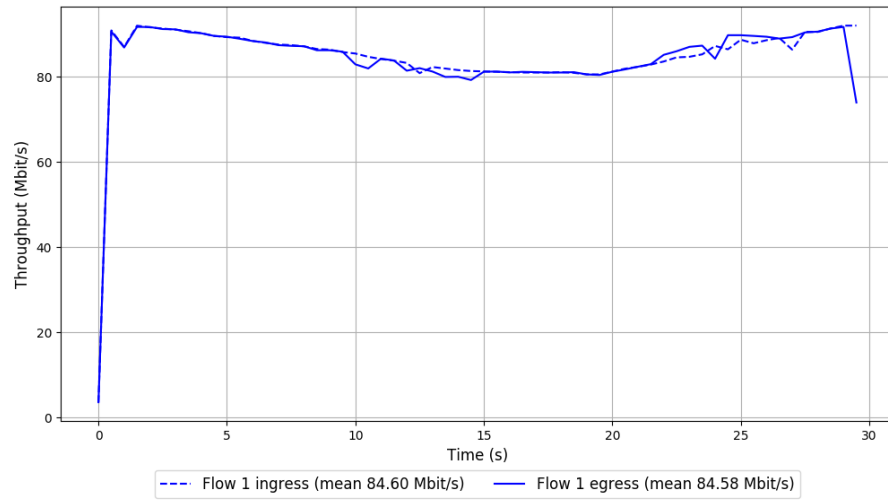
-- Flow 1:

Average throughput: 84.58 Mbit/s

95th percentile per-packet one-way delay: 51.623 ms

Loss rate: 0.36%

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



Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 12:24:28

End at: 2018-04-24 12:24:58

# Below is generated by plot.py at 2018-04-24 16:54:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.66 Mbit/s

95th percentile per-packet one-way delay: 61.294 ms

Loss rate: 0.13%

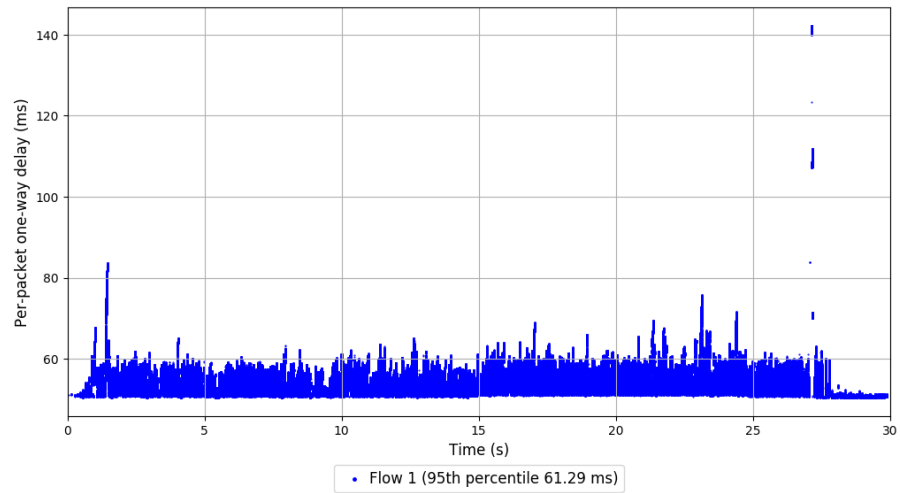
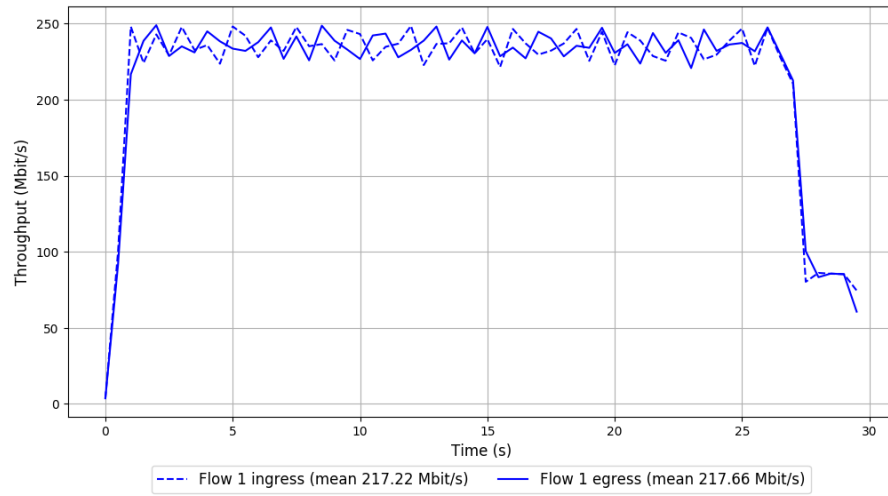
-- Flow 1:

Average throughput: 217.66 Mbit/s

95th percentile per-packet one-way delay: 61.294 ms

Loss rate: 0.13%

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



Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 12:37:45

End at: 2018-04-24 12:38:15

# Below is generated by plot.py at 2018-04-24 16:54:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.92 Mbit/s

95th percentile per-packet one-way delay: 53.183 ms

Loss rate: 0.36%

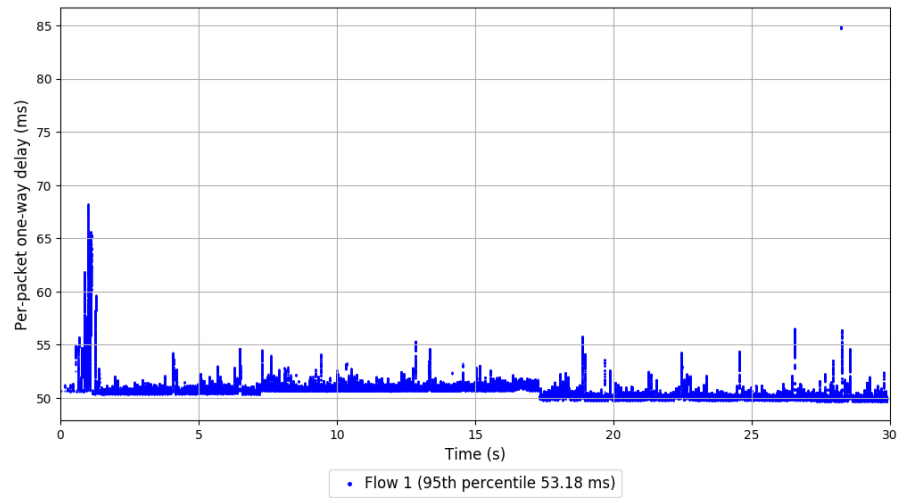
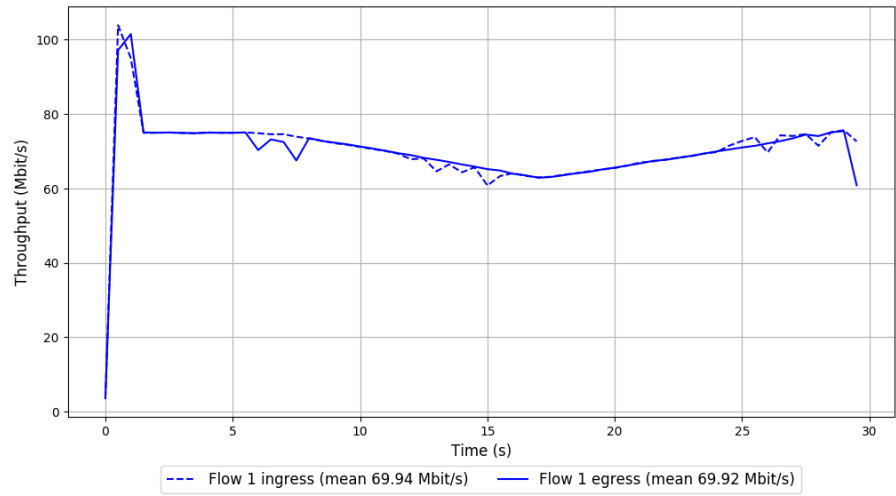
-- Flow 1:

Average throughput: 69.92 Mbit/s

95th percentile per-packet one-way delay: 53.183 ms

Loss rate: 0.36%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 12:50:54

End at: 2018-04-24 12:51:24

# Below is generated by plot.py at 2018-04-24 16:54:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 110.17 Mbit/s

95th percentile per-packet one-way delay: 52.468 ms

Loss rate: 0.39%

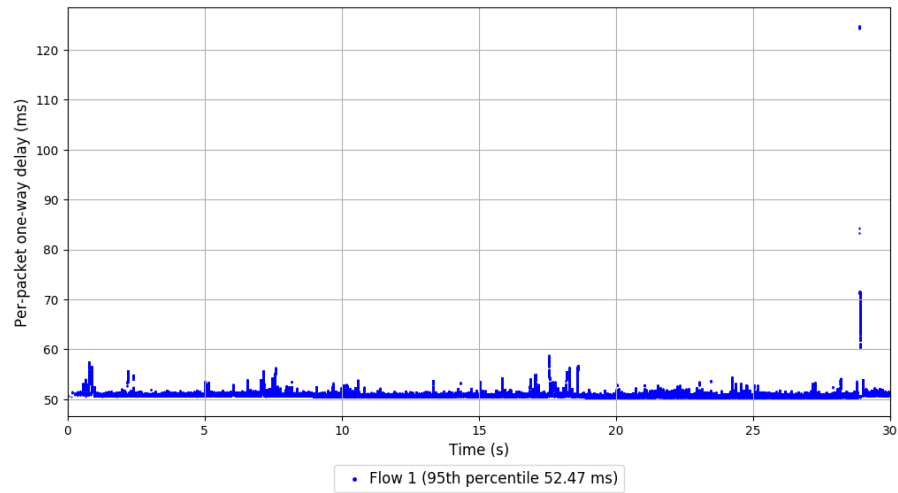
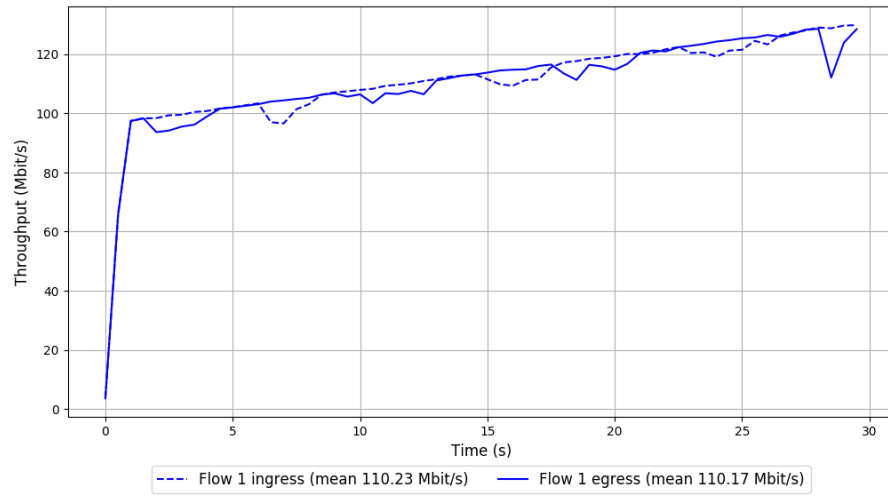
-- Flow 1:

Average throughput: 110.17 Mbit/s

95th percentile per-packet one-way delay: 52.468 ms

Loss rate: 0.39%

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



Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 13:04:08

End at: 2018-04-24 13:04:38

# Below is generated by plot.py at 2018-04-24 16:54:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 185.19 Mbit/s

95th percentile per-packet one-way delay: 61.948 ms

Loss rate: 0.16%

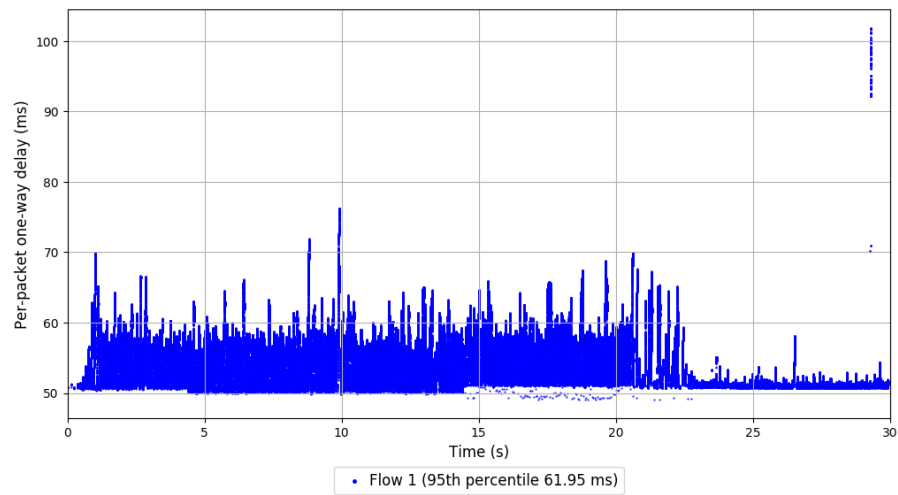
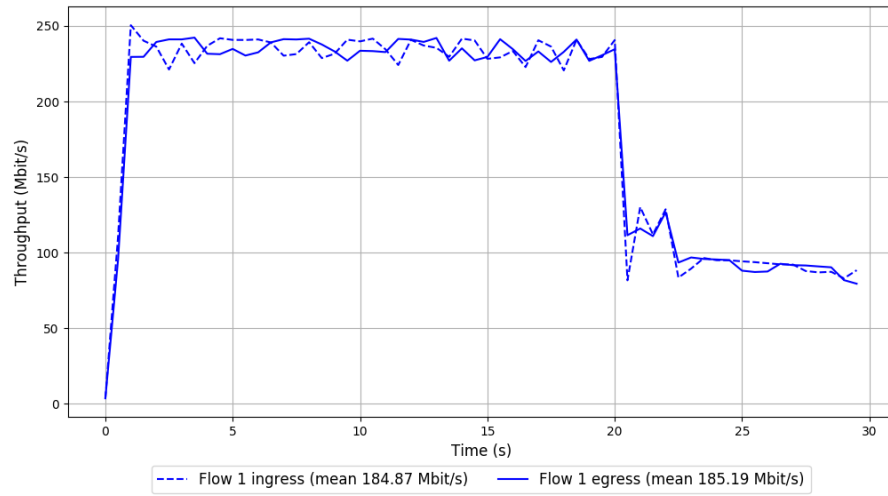
-- Flow 1:

Average throughput: 185.19 Mbit/s

95th percentile per-packet one-way delay: 61.948 ms

Loss rate: 0.16%

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



Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 13:17:23

End at: 2018-04-24 13:17:53

# Below is generated by plot.py at 2018-04-24 16:54:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 228.16 Mbit/s

95th percentile per-packet one-way delay: 60.307 ms

Loss rate: 0.39%

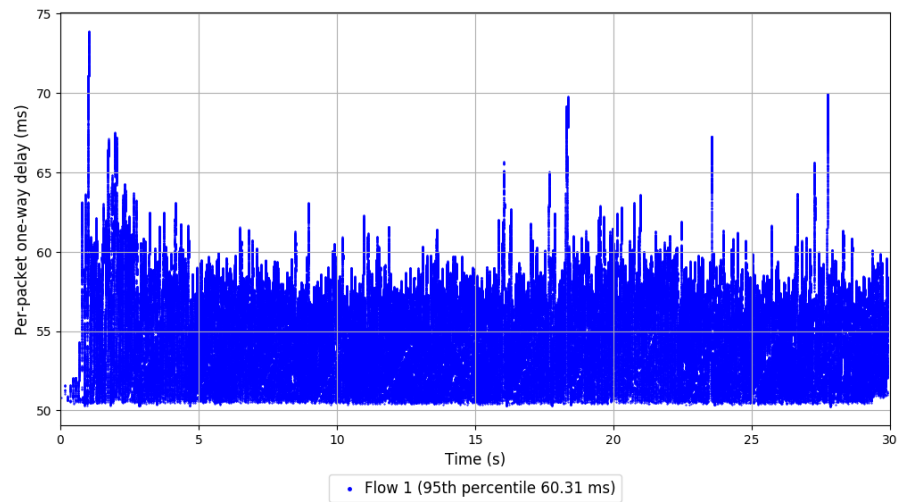
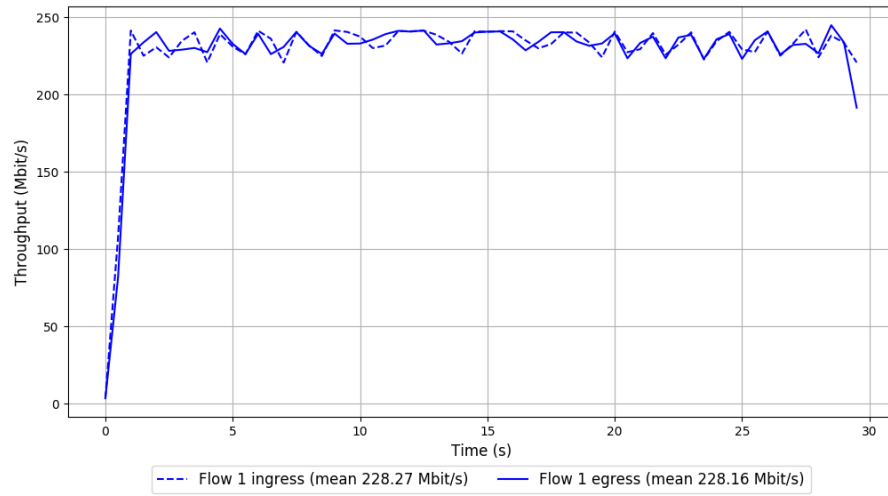
-- Flow 1:

Average throughput: 228.16 Mbit/s

95th percentile per-packet one-way delay: 60.307 ms

Loss rate: 0.39%

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



Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 13:30:42

End at: 2018-04-24 13:31:12

# Below is generated by plot.py at 2018-04-24 16:54:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.88 Mbit/s

95th percentile per-packet one-way delay: 59.194 ms

Loss rate: 0.25%

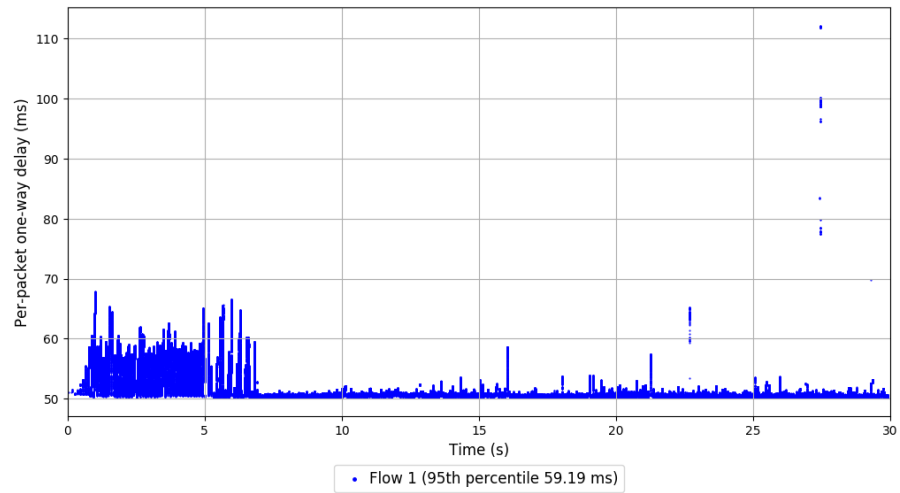
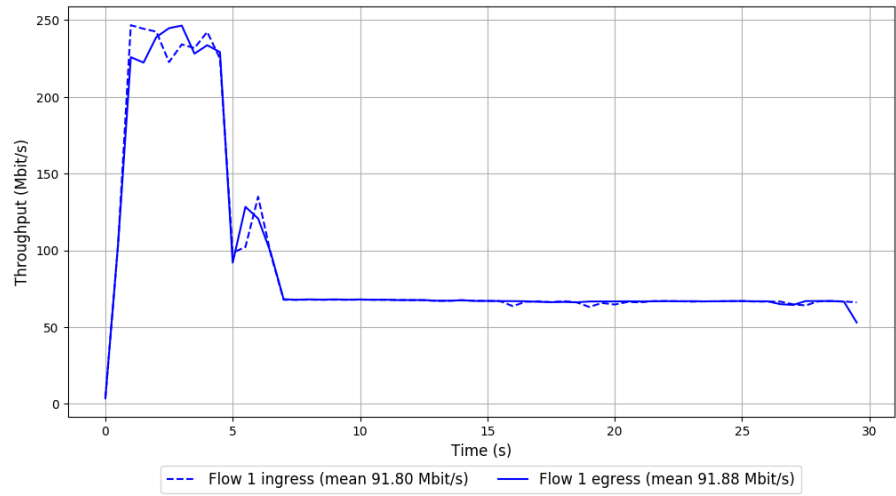
-- Flow 1:

Average throughput: 91.88 Mbit/s

95th percentile per-packet one-way delay: 59.194 ms

Loss rate: 0.25%

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



Run 9: Statistics of TCP Vegas

Start at: 2018-04-24 13:43:57

End at: 2018-04-24 13:44:27

# Below is generated by plot.py at 2018-04-24 16:54:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 203.16 Mbit/s

95th percentile per-packet one-way delay: 51.979 ms

Loss rate: 0.34%

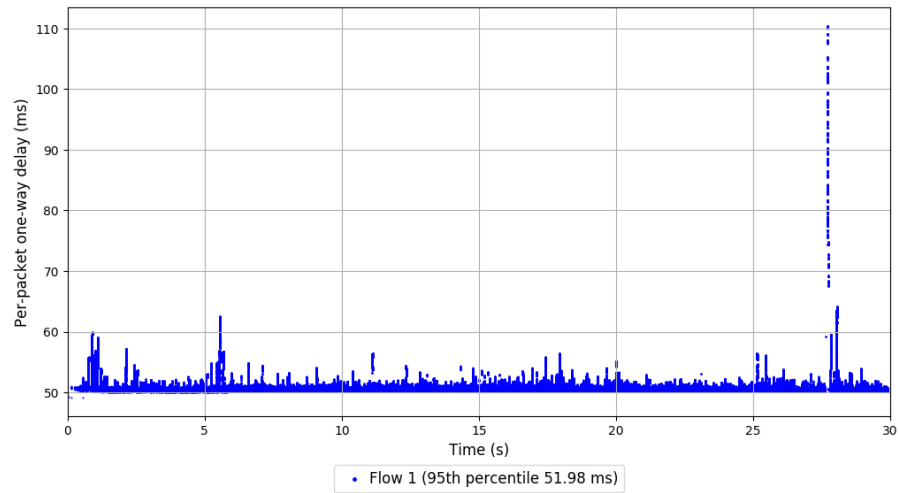
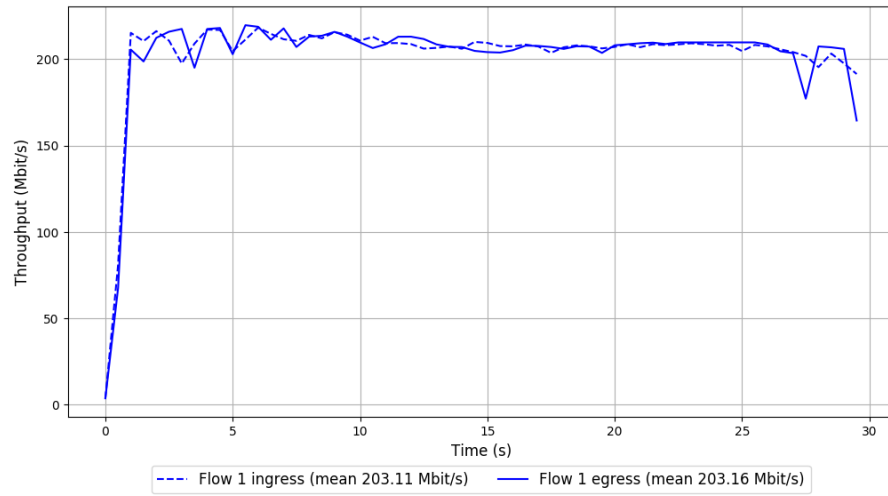
-- Flow 1:

Average throughput: 203.16 Mbit/s

95th percentile per-packet one-way delay: 51.979 ms

Loss rate: 0.34%

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



Run 10: Statistics of TCP Vegas

Start at: 2018-04-24 13:57:06

End at: 2018-04-24 13:57:36

# Below is generated by plot.py at 2018-04-24 16:54:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 101.07 Mbit/s

95th percentile per-packet one-way delay: 57.473 ms

Loss rate: 0.19%

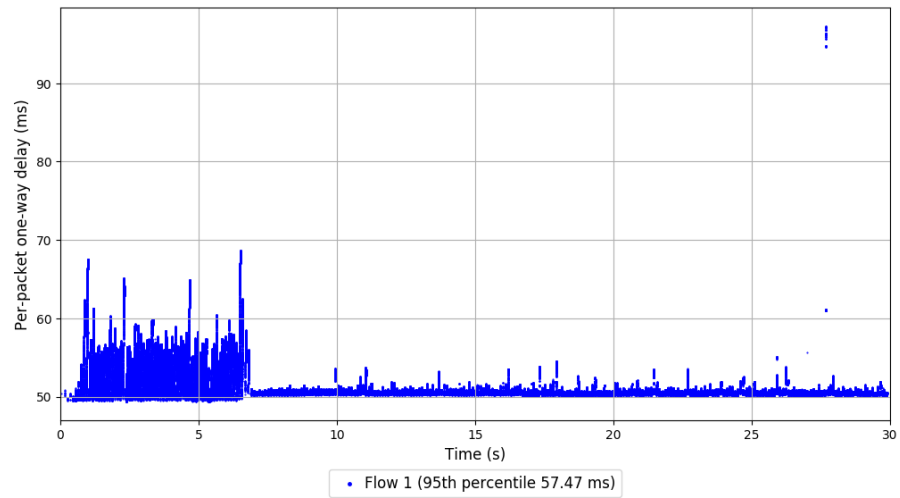
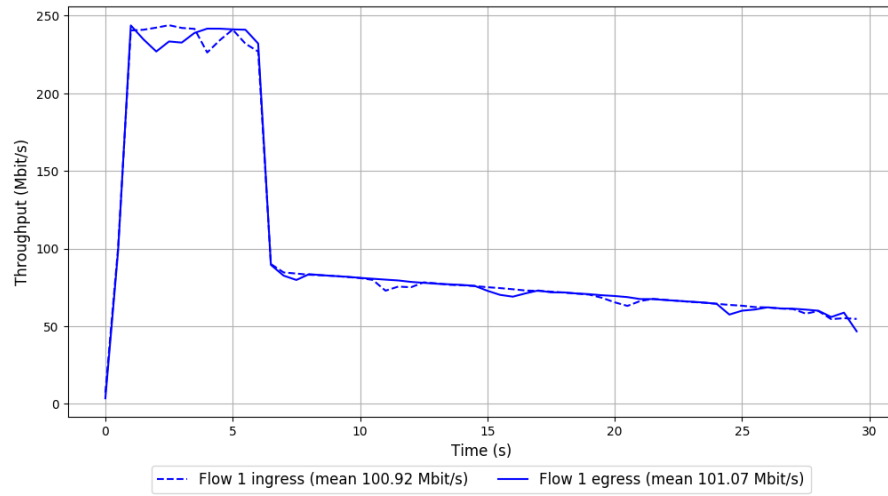
-- Flow 1:

Average throughput: 101.07 Mbit/s

95th percentile per-packet one-way delay: 57.473 ms

Loss rate: 0.19%

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



Run 1: Statistics of Verus

Start at: 2018-04-24 11:47:37

End at: 2018-04-24 11:48:08

# Below is generated by plot.py at 2018-04-24 16:54:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 200.11 Mbit/s

95th percentile per-packet one-way delay: 78.895 ms

Loss rate: 1.35%

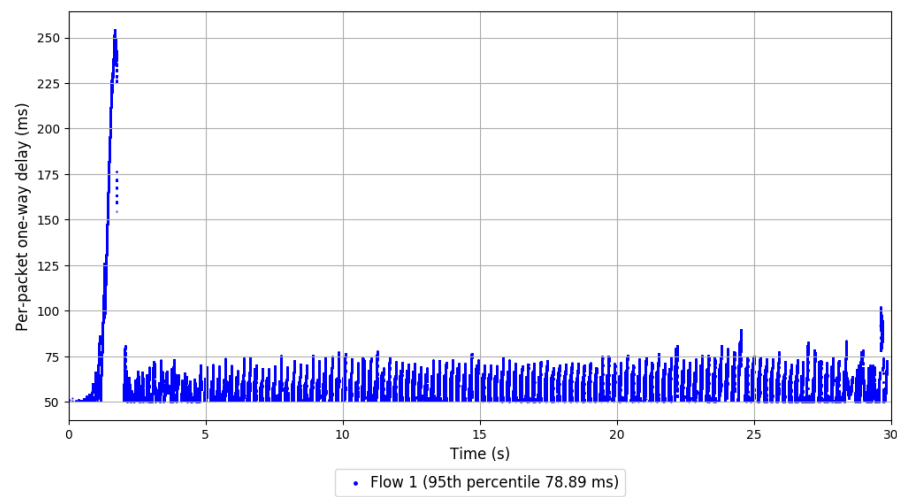
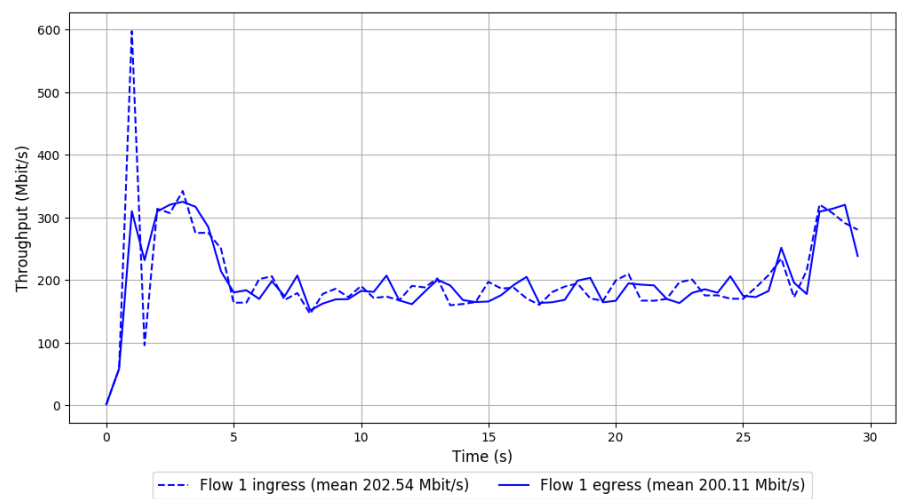
-- Flow 1:

Average throughput: 200.11 Mbit/s

95th percentile per-packet one-way delay: 78.895 ms

Loss rate: 1.35%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-24 12:00:44

End at: 2018-04-24 12:01:14

# Below is generated by plot.py at 2018-04-24 16:55:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 230.91 Mbit/s

95th percentile per-packet one-way delay: 105.423 ms

Loss rate: 2.68%

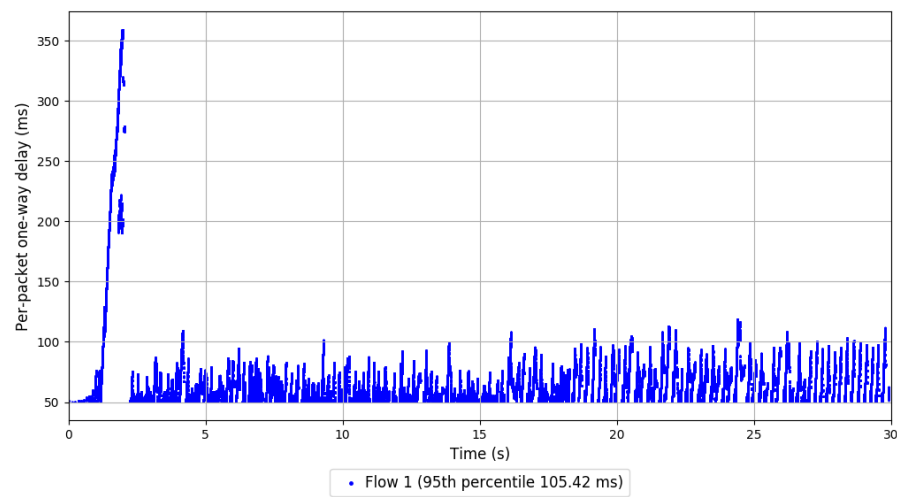
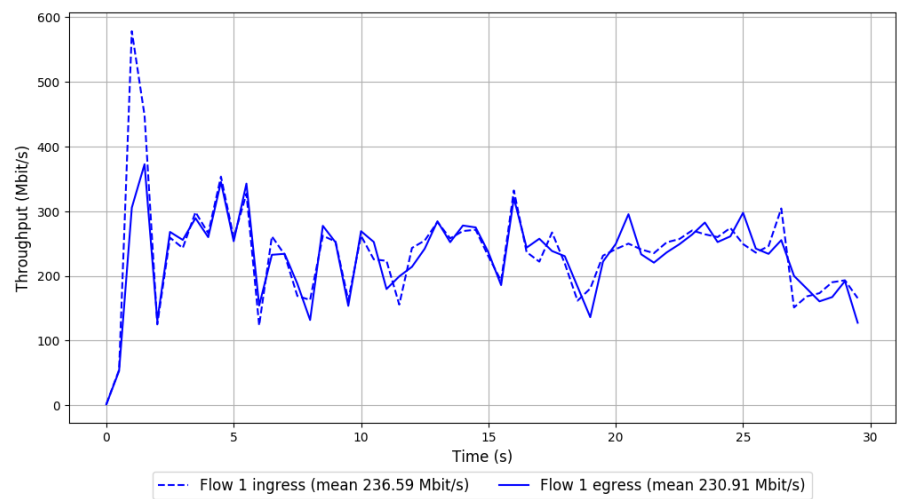
-- Flow 1:

Average throughput: 230.91 Mbit/s

95th percentile per-packet one-way delay: 105.423 ms

Loss rate: 2.68%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-24 12:13:52

End at: 2018-04-24 12:14:22

# Below is generated by plot.py at 2018-04-24 16:57:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 300.41 Mbit/s

95th percentile per-packet one-way delay: 84.372 ms

Loss rate: 1.19%

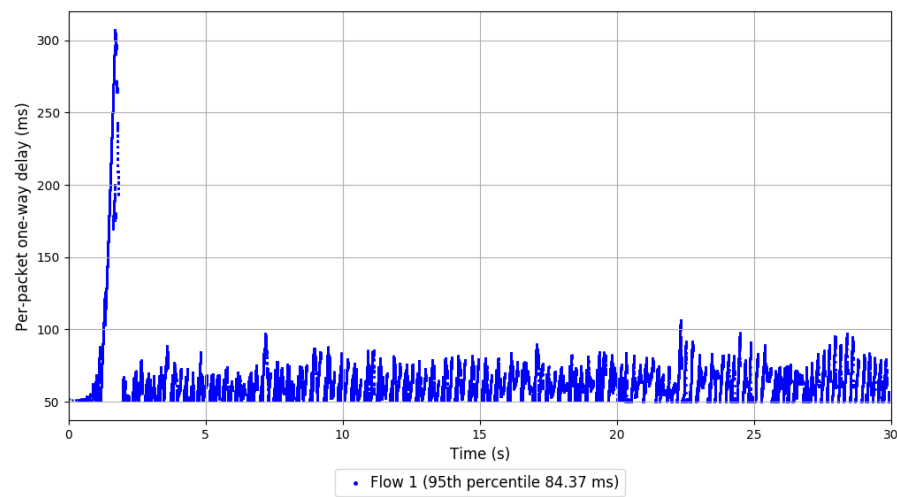
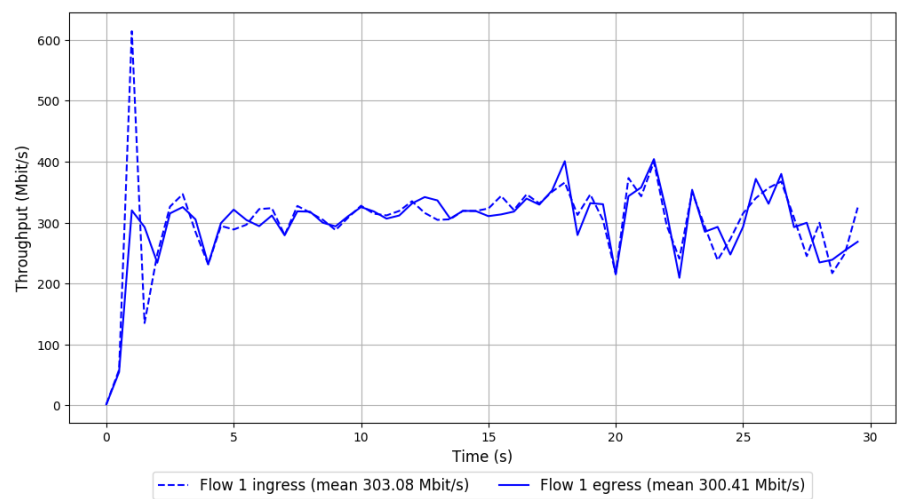
-- Flow 1:

Average throughput: 300.41 Mbit/s

95th percentile per-packet one-way delay: 84.372 ms

Loss rate: 1.19%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-24 12:27:13

End at: 2018-04-24 12:27:43

# Below is generated by plot.py at 2018-04-24 16:57:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 250.96 Mbit/s

95th percentile per-packet one-way delay: 115.414 ms

Loss rate: 2.82%

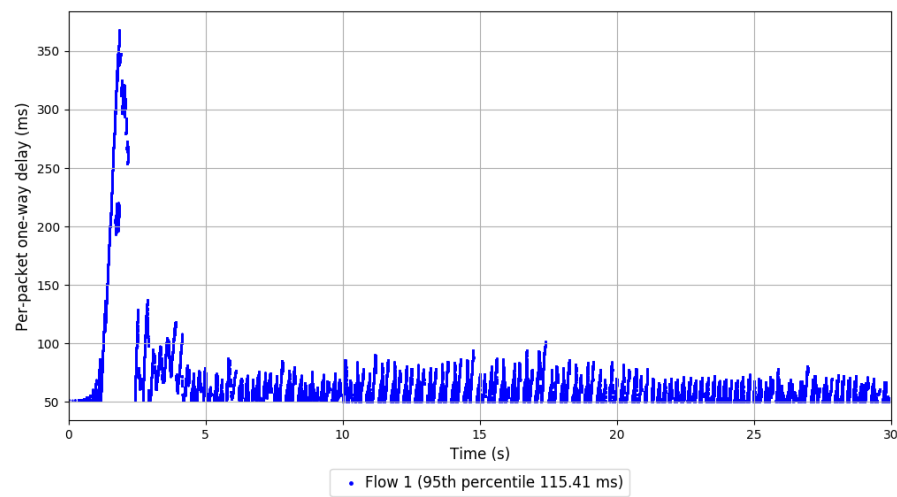
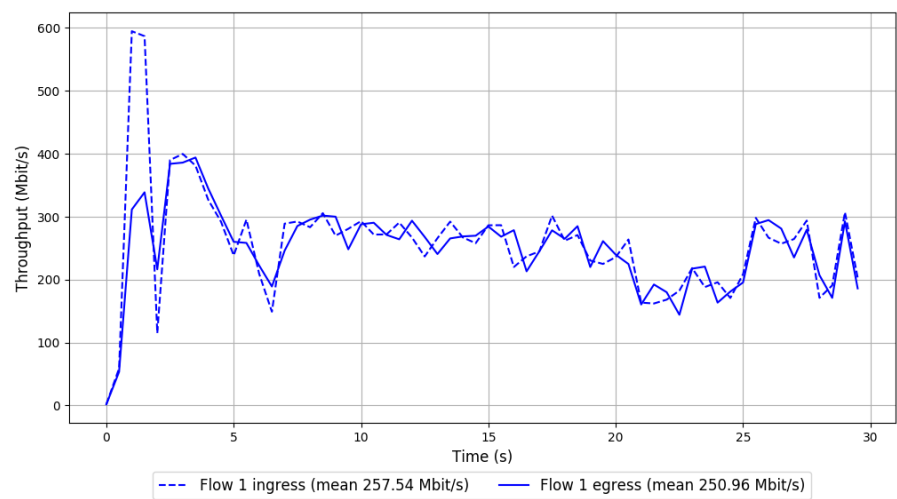
-- Flow 1:

Average throughput: 250.96 Mbit/s

95th percentile per-packet one-way delay: 115.414 ms

Loss rate: 2.82%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-24 12:40:23

End at: 2018-04-24 12:40:53

# Below is generated by plot.py at 2018-04-24 16:57:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 227.77 Mbit/s

95th percentile per-packet one-way delay: 202.097 ms

Loss rate: 1.39%

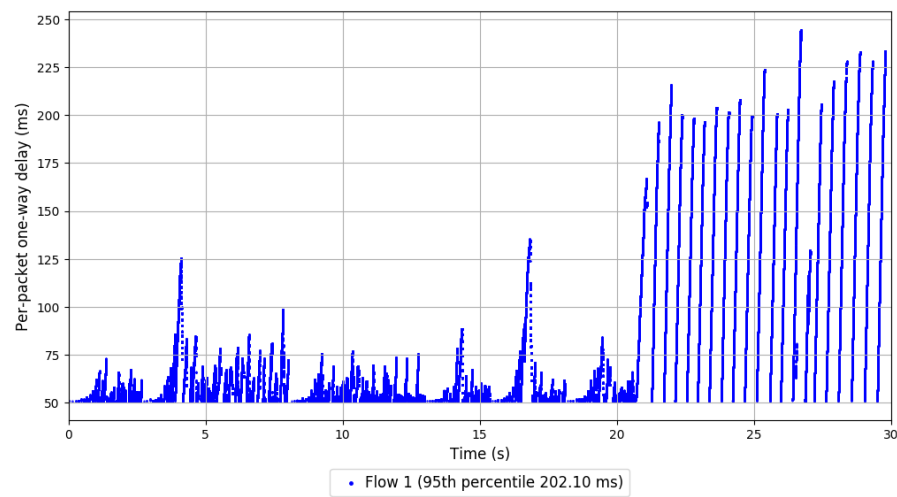
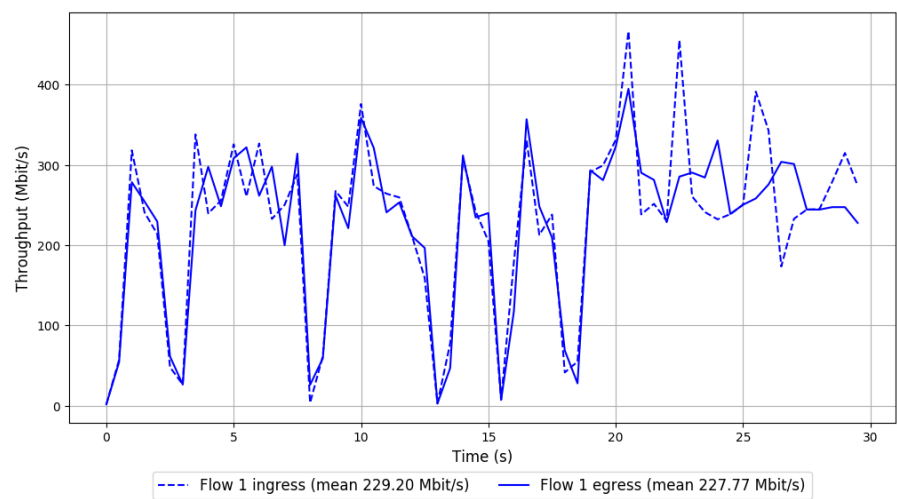
-- Flow 1:

Average throughput: 227.77 Mbit/s

95th percentile per-packet one-way delay: 202.097 ms

Loss rate: 1.39%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-24 12:53:33

End at: 2018-04-24 12:54:03

# Below is generated by plot.py at 2018-04-24 16:57:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 269.64 Mbit/s

95th percentile per-packet one-way delay: 183.798 ms

Loss rate: 1.57%

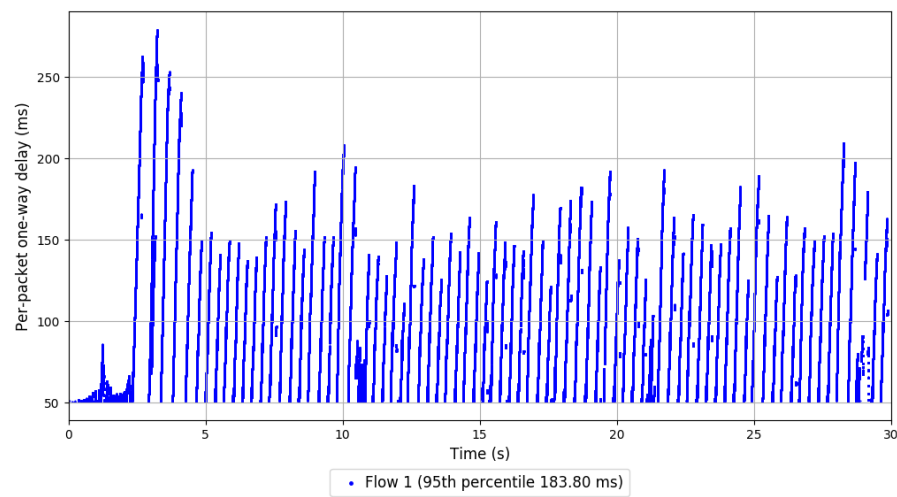
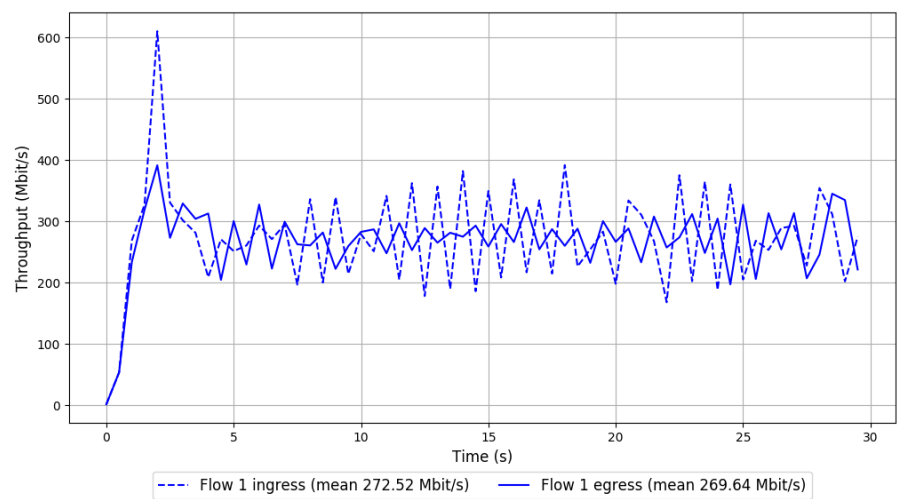
-- Flow 1:

Average throughput: 269.64 Mbit/s

95th percentile per-packet one-way delay: 183.798 ms

Loss rate: 1.57%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-24 13:06:50

End at: 2018-04-24 13:07:20

# Below is generated by plot.py at 2018-04-24 16:59:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 273.52 Mbit/s

95th percentile per-packet one-way delay: 110.833 ms

Loss rate: 2.44%

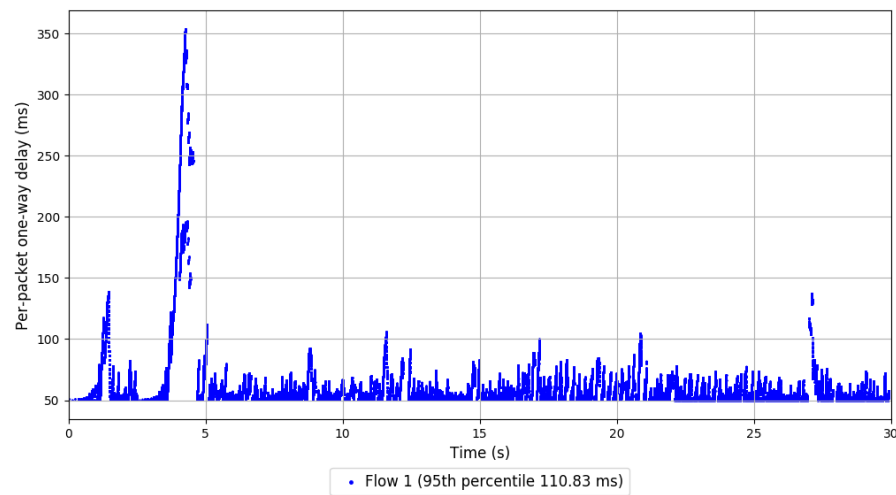
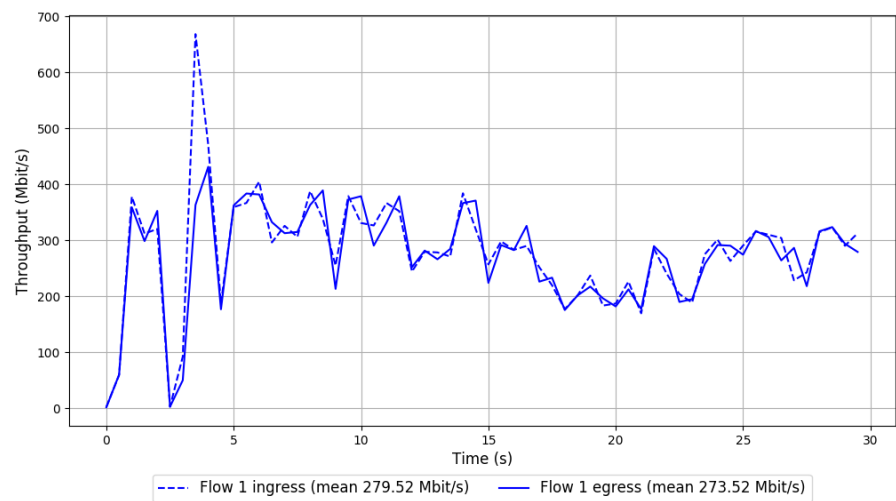
-- Flow 1:

Average throughput: 273.52 Mbit/s

95th percentile per-packet one-way delay: 110.833 ms

Loss rate: 2.44%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-24 13:20:09

End at: 2018-04-24 13:20:39

# Below is generated by plot.py at 2018-04-24 16:59:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.65 Mbit/s

95th percentile per-packet one-way delay: 104.598 ms

Loss rate: 1.68%

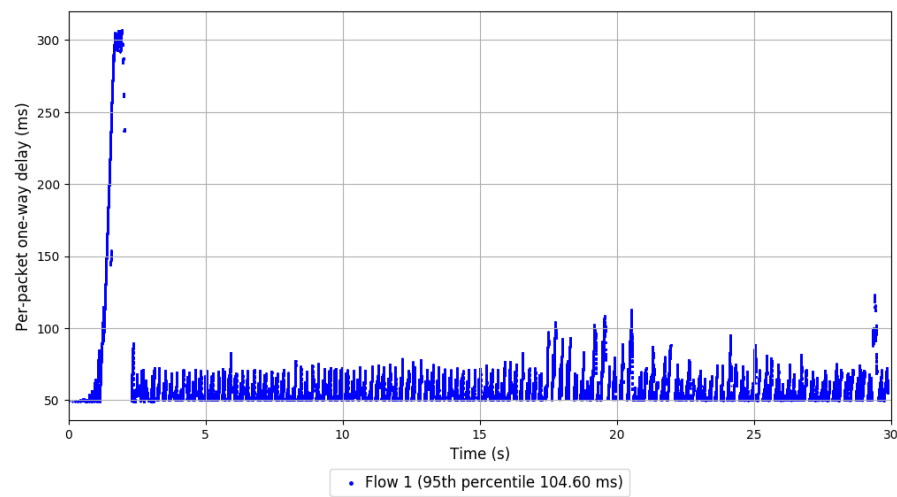
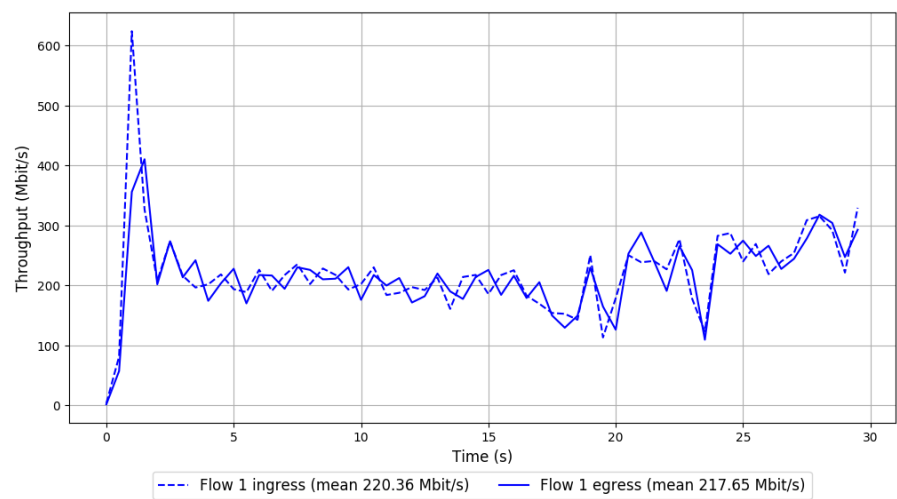
-- Flow 1:

Average throughput: 217.65 Mbit/s

95th percentile per-packet one-way delay: 104.598 ms

Loss rate: 1.68%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-24 13:33:21

End at: 2018-04-24 13:33:51

# Below is generated by plot.py at 2018-04-24 17:01:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 326.15 Mbit/s

95th percentile per-packet one-way delay: 123.379 ms

Loss rate: 0.71%

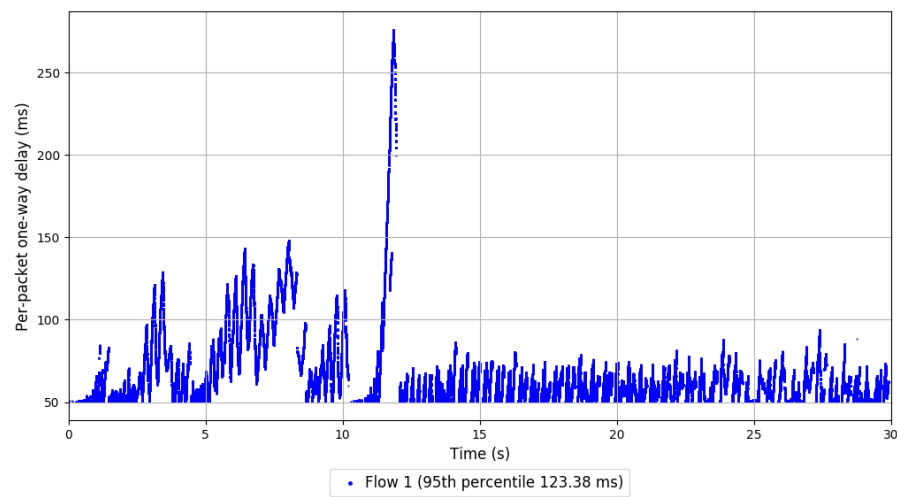
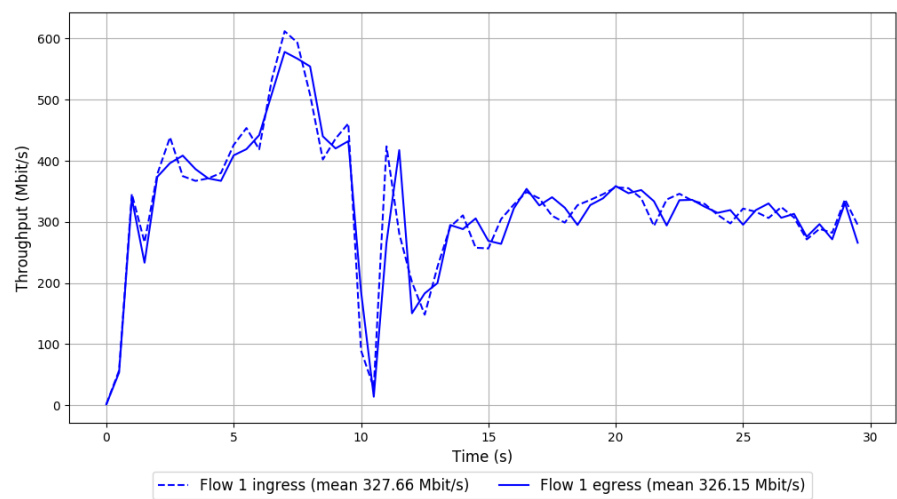
-- Flow 1:

Average throughput: 326.15 Mbit/s

95th percentile per-packet one-way delay: 123.379 ms

Loss rate: 0.71%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-24 13:46:38

End at: 2018-04-24 13:47:08

# Below is generated by plot.py at 2018-04-24 17:01:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 245.80 Mbit/s

95th percentile per-packet one-way delay: 115.750 ms

Loss rate: 0.55%

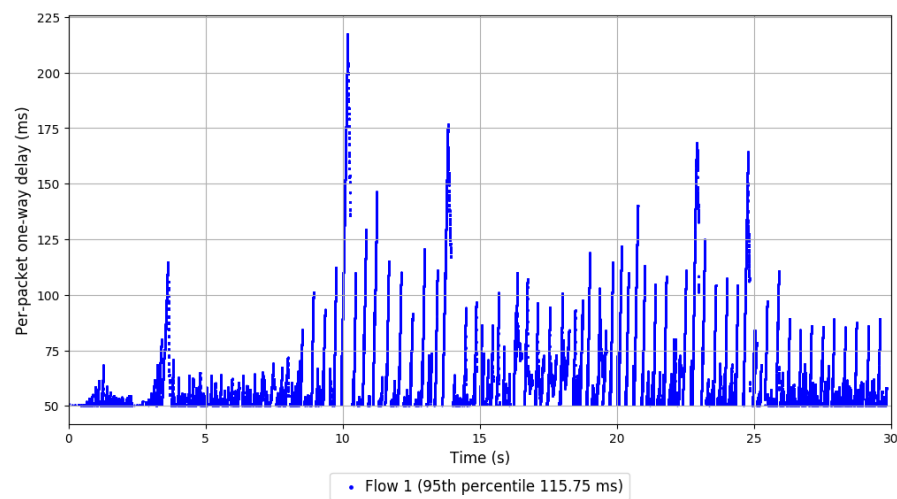
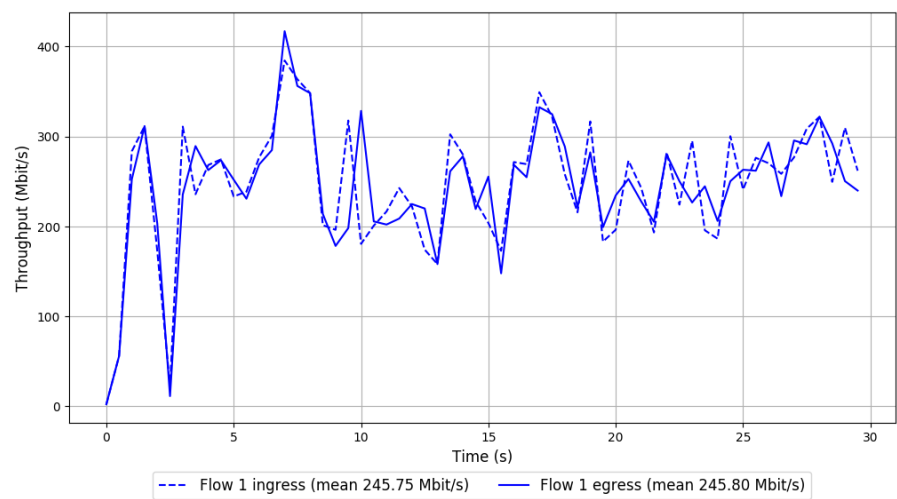
-- Flow 1:

Average throughput: 245.80 Mbit/s

95th percentile per-packet one-way delay: 115.750 ms

Loss rate: 0.55%

Run 10: Report of Verus — Data Link

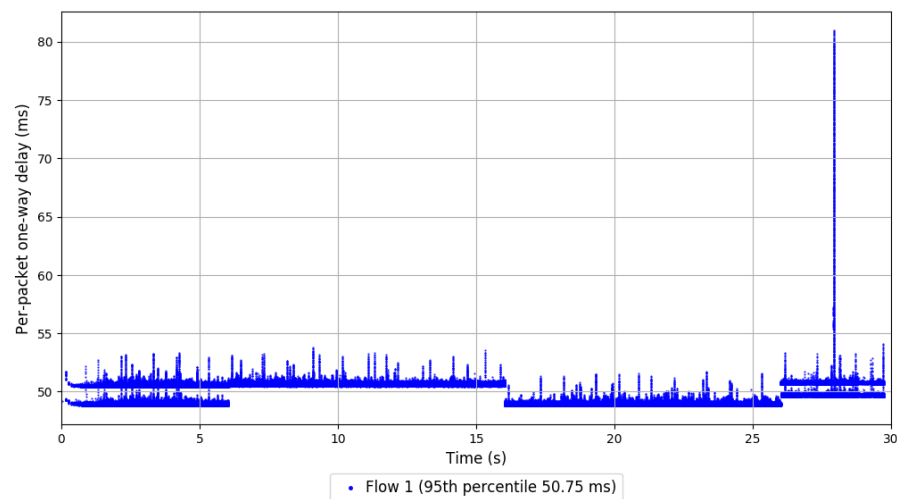
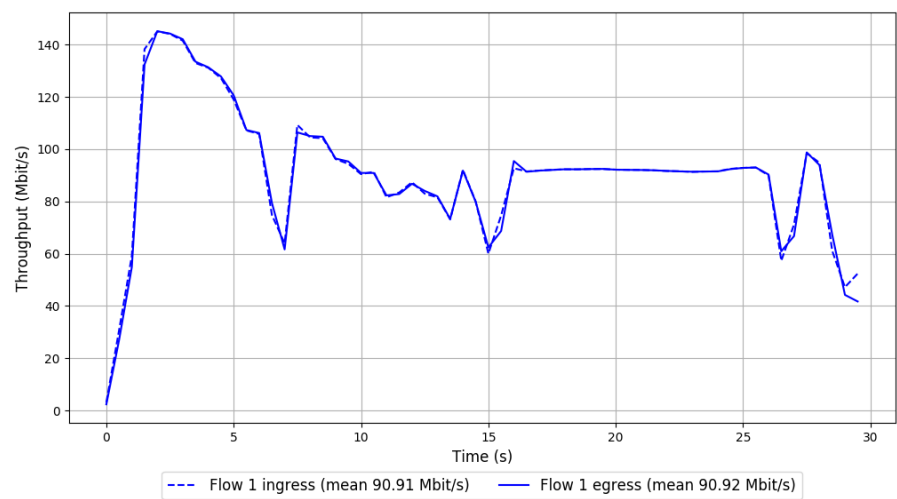


```
Run 1: Statistics of Copa

Start at: 2018-04-24 11:46:16
End at: 2018-04-24 11:46:46

# Below is generated by plot.py at 2018-04-24 17:01:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.92 Mbit/s
95th percentile per-packet one-way delay: 50.752 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 90.92 Mbit/s
95th percentile per-packet one-way delay: 50.752 ms
Loss rate: 0.32%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-24 11:59:23

End at: 2018-04-24 11:59:53

# Below is generated by plot.py at 2018-04-24 17:01:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.46 Mbit/s

95th percentile per-packet one-way delay: 50.818 ms

Loss rate: 0.29%

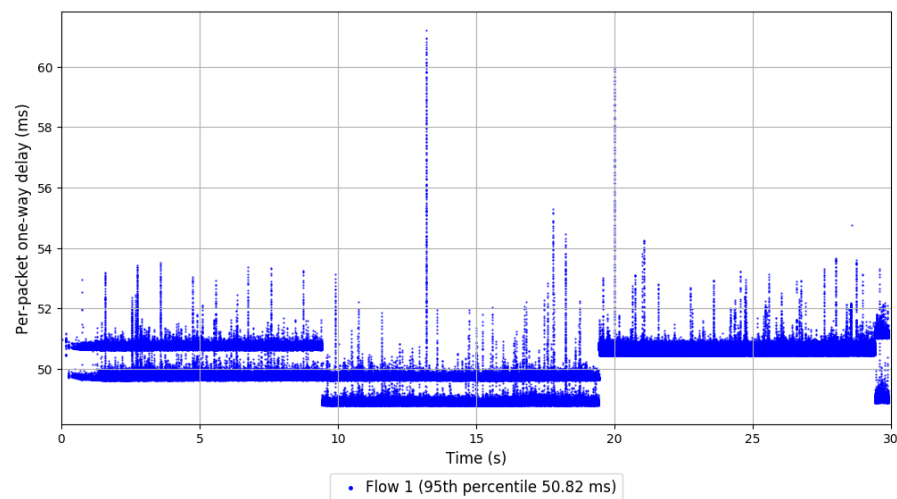
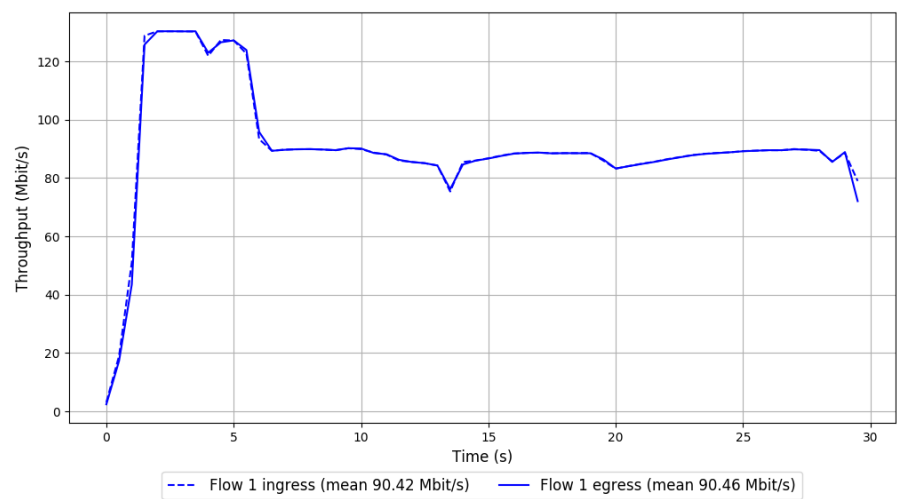
-- Flow 1:

Average throughput: 90.46 Mbit/s

95th percentile per-packet one-way delay: 50.818 ms

Loss rate: 0.29%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-24 12:12:31

End at: 2018-04-24 12:13:01

# Below is generated by plot.py at 2018-04-24 17:01:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 50.534 ms

Loss rate: 0.38%

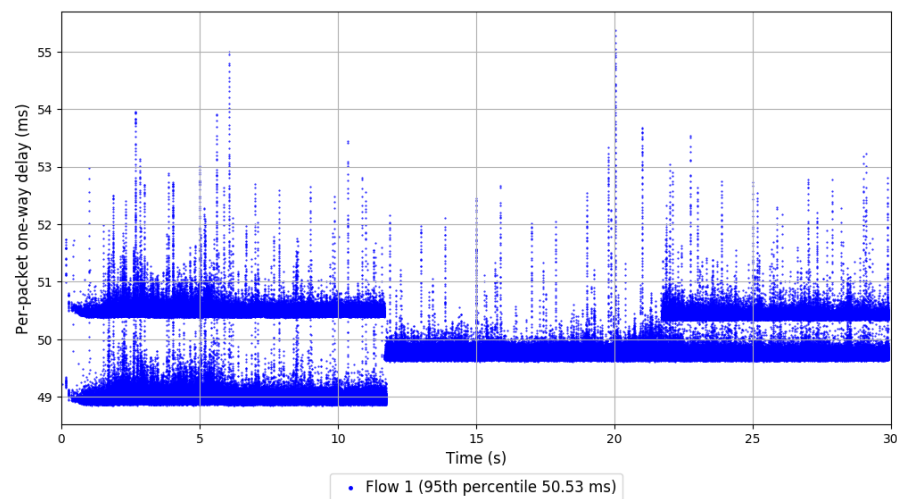
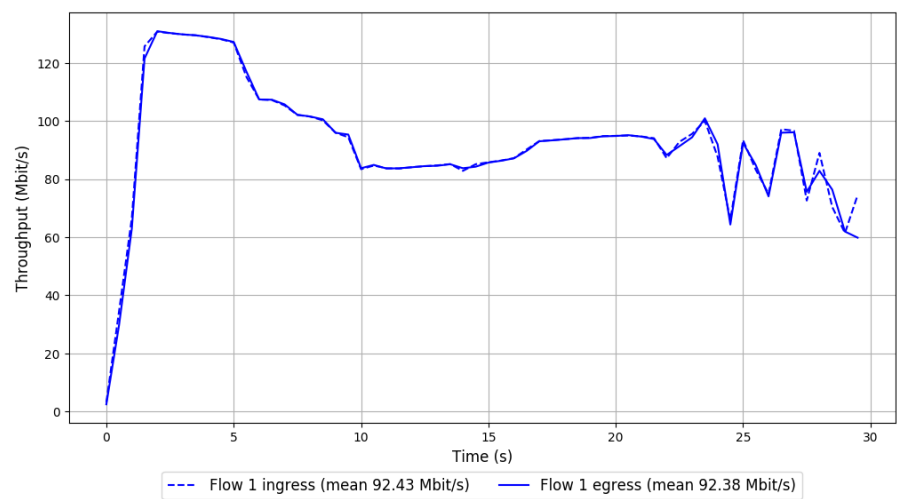
-- Flow 1:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 50.534 ms

Loss rate: 0.38%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-24 12:25:52

End at: 2018-04-24 12:26:22

# Below is generated by plot.py at 2018-04-24 17:01:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.26 Mbit/s

95th percentile per-packet one-way delay: 50.919 ms

Loss rate: 0.35%

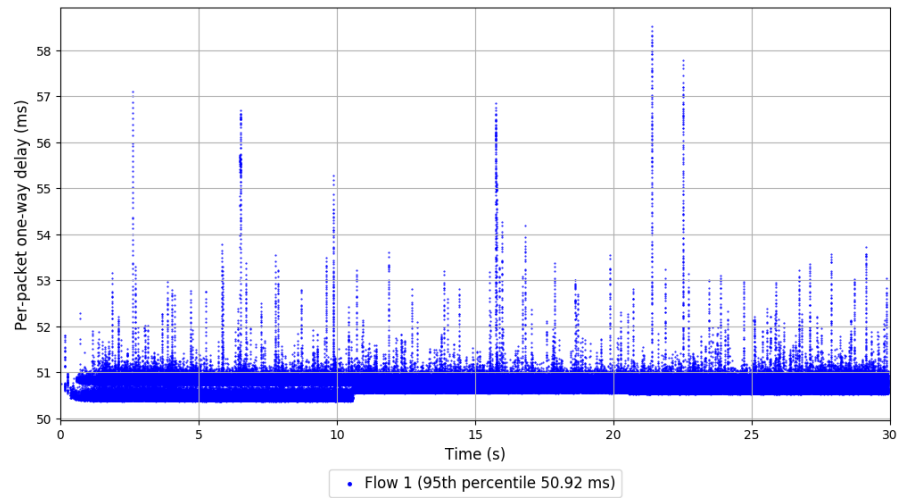
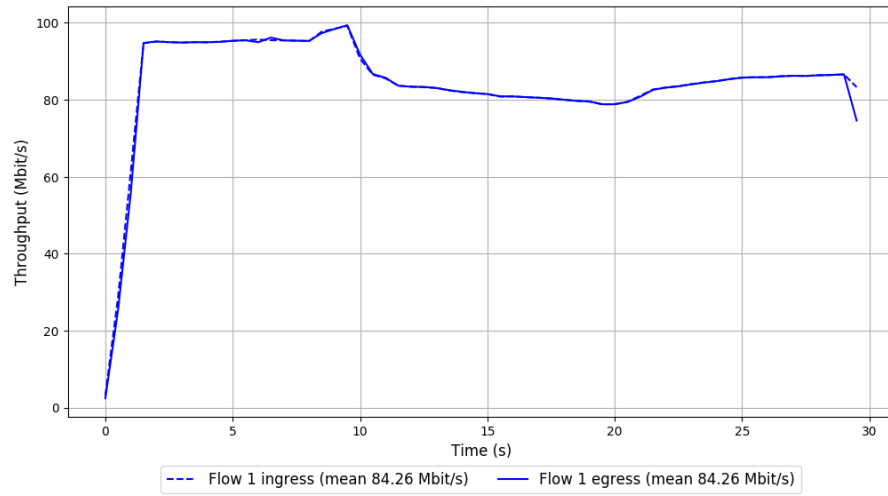
-- Flow 1:

Average throughput: 84.26 Mbit/s

95th percentile per-packet one-way delay: 50.919 ms

Loss rate: 0.35%

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



Run 5: Statistics of Copa

Start at: 2018-04-24 12:39:02

End at: 2018-04-24 12:39:32

# Below is generated by plot.py at 2018-04-24 17:01:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.68 Mbit/s

95th percentile per-packet one-way delay: 50.634 ms

Loss rate: 0.43%

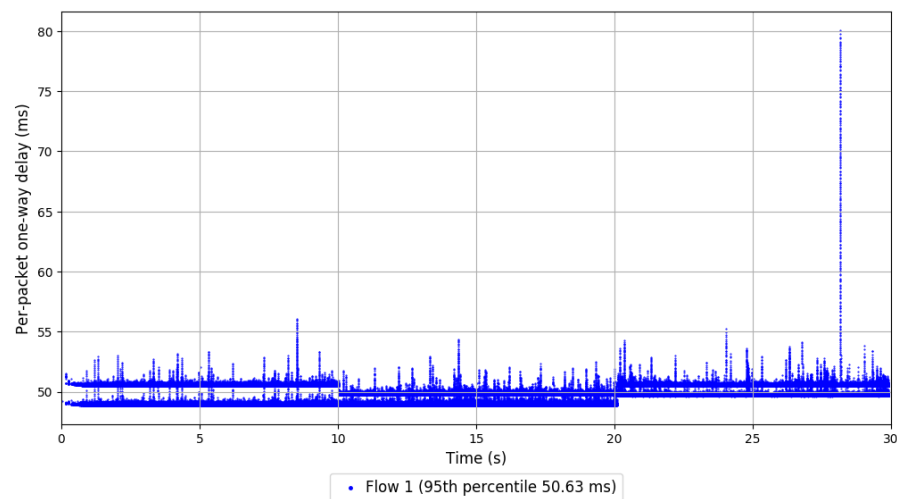
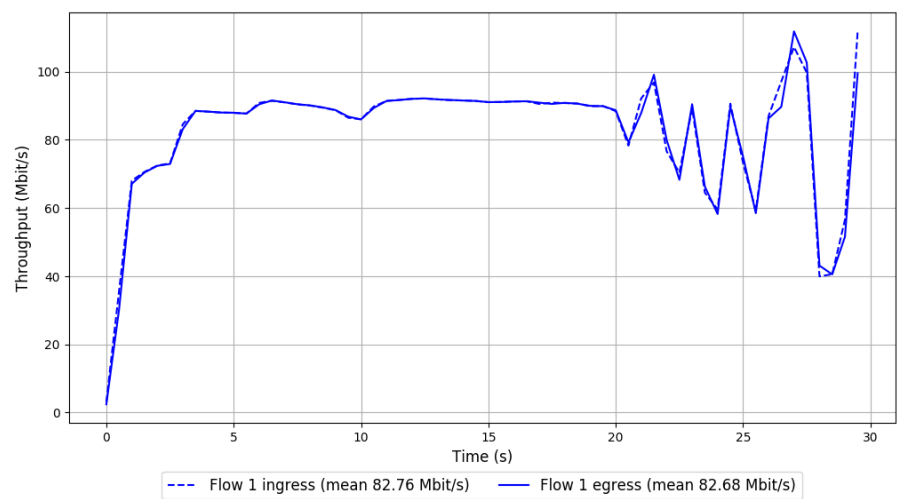
-- Flow 1:

Average throughput: 82.68 Mbit/s

95th percentile per-packet one-way delay: 50.634 ms

Loss rate: 0.43%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-24 12:52:13

End at: 2018-04-24 12:52:43

# Below is generated by plot.py at 2018-04-24 17:02:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.49 Mbit/s

95th percentile per-packet one-way delay: 50.815 ms

Loss rate: 0.32%

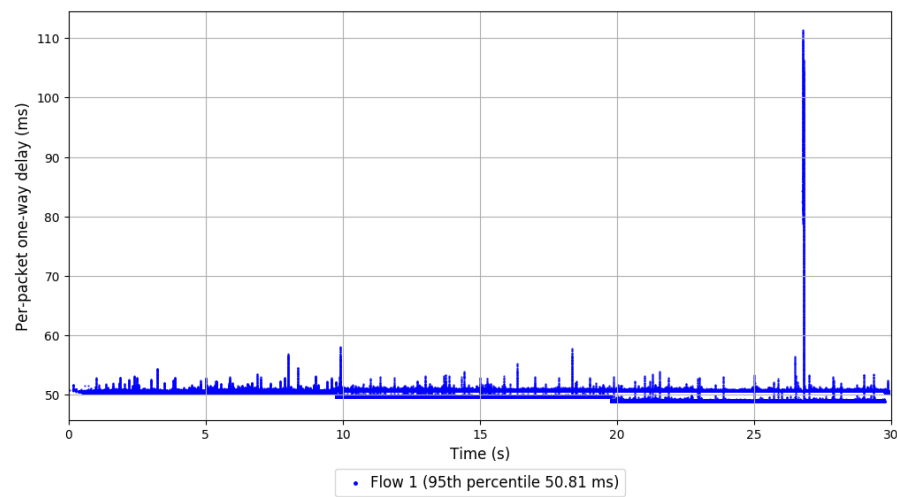
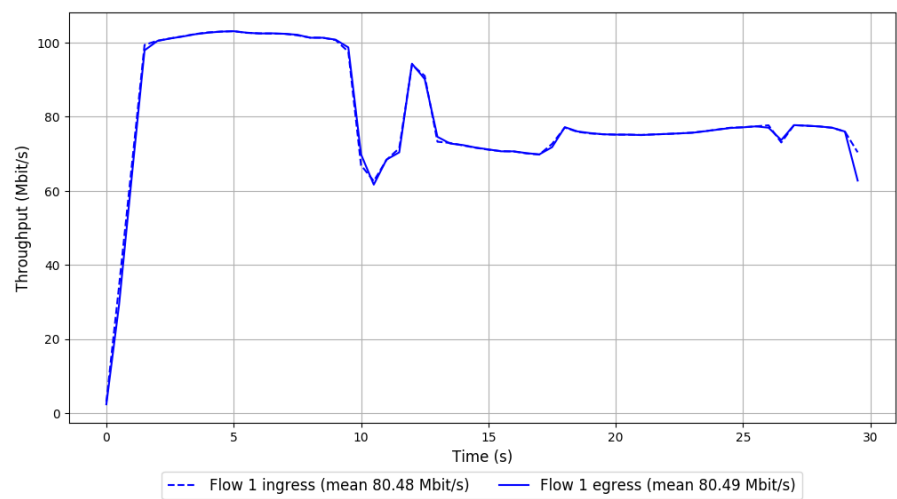
-- Flow 1:

Average throughput: 80.49 Mbit/s

95th percentile per-packet one-way delay: 50.815 ms

Loss rate: 0.32%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-24 13:05:31

End at: 2018-04-24 13:06:01

# Below is generated by plot.py at 2018-04-24 17:02:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 66.76 Mbit/s

95th percentile per-packet one-way delay: 50.705 ms

Loss rate: 0.15%

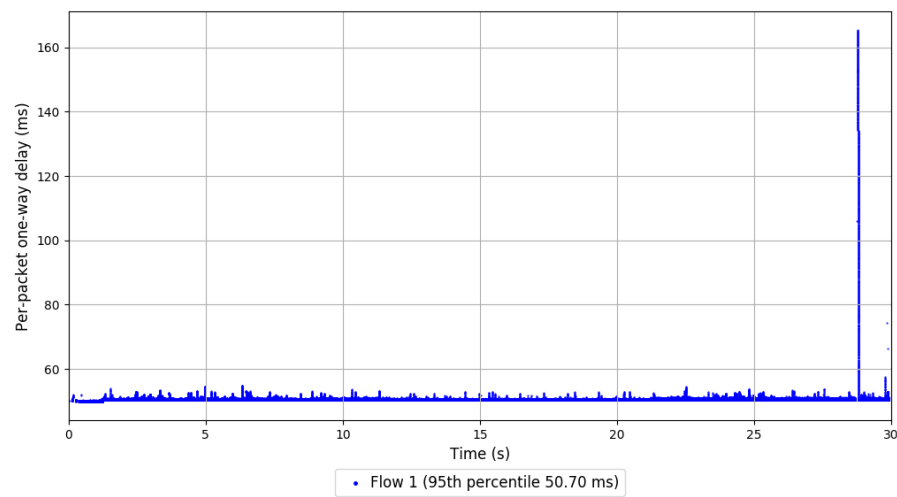
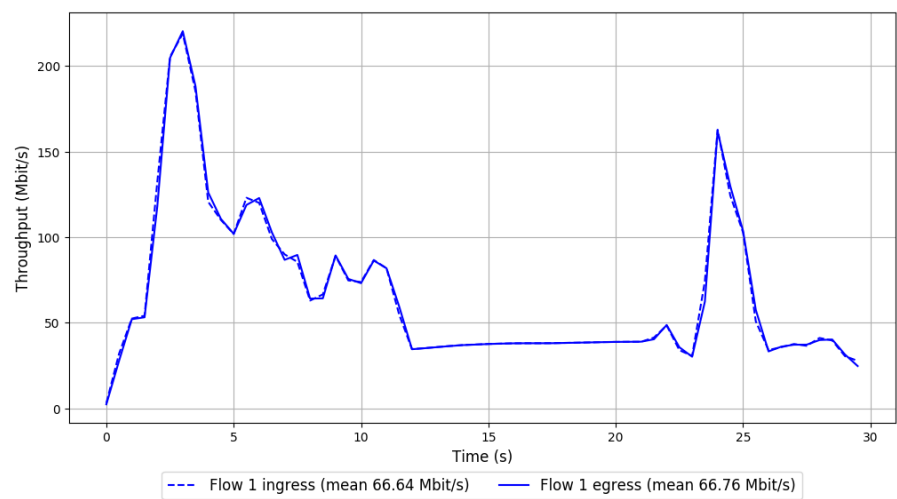
-- Flow 1:

Average throughput: 66.76 Mbit/s

95th percentile per-packet one-way delay: 50.705 ms

Loss rate: 0.15%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-24 13:18:48

End at: 2018-04-24 13:19:18

# Below is generated by plot.py at 2018-04-24 17:02:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.97 Mbit/s

95th percentile per-packet one-way delay: 50.452 ms

Loss rate: 0.26%

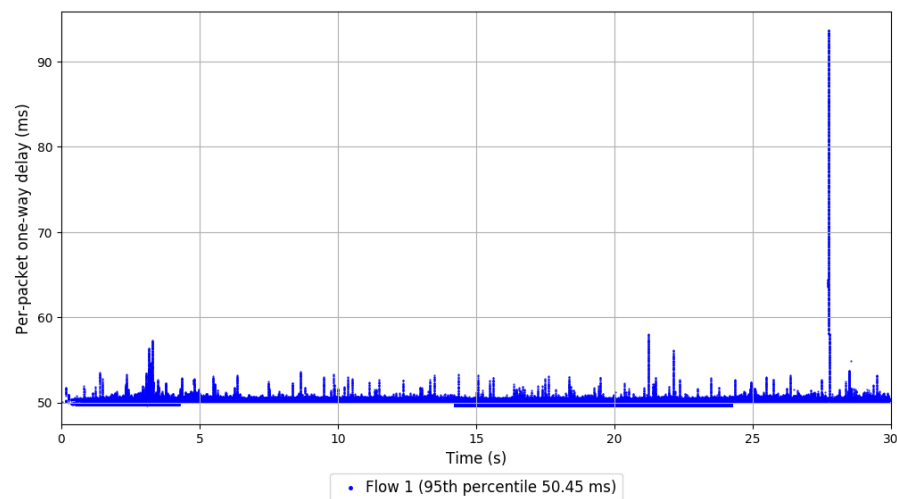
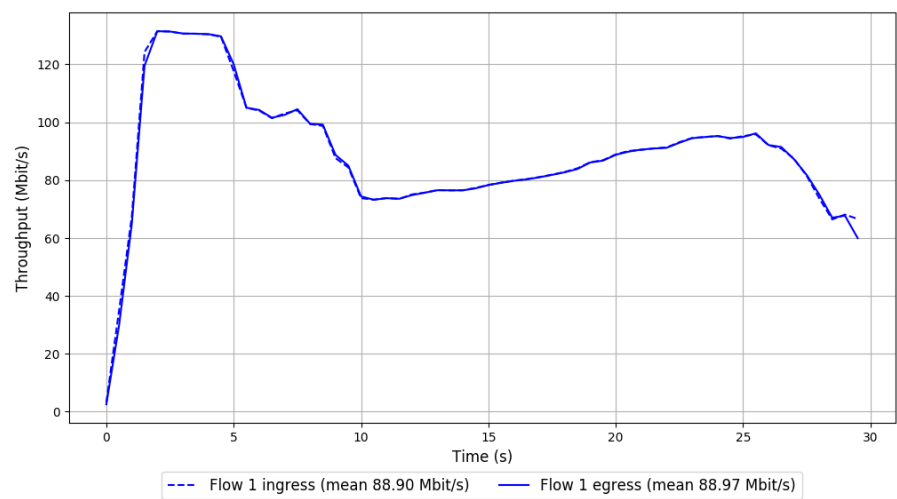
-- Flow 1:

Average throughput: 88.97 Mbit/s

95th percentile per-packet one-way delay: 50.452 ms

Loss rate: 0.26%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-24 13:32:00

End at: 2018-04-24 13:32:30

# Below is generated by plot.py at 2018-04-24 17:03:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.98 Mbit/s

95th percentile per-packet one-way delay: 50.324 ms

Loss rate: 0.33%

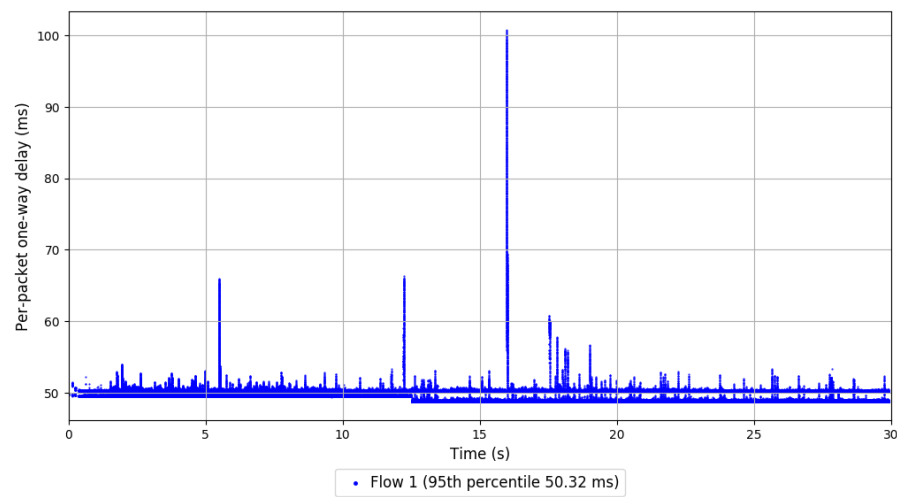
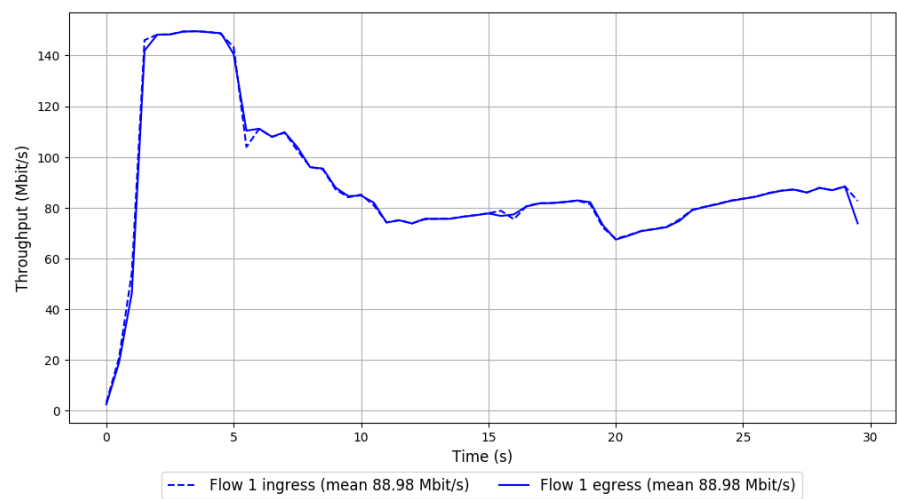
-- Flow 1:

Average throughput: 88.98 Mbit/s

95th percentile per-packet one-way delay: 50.324 ms

Loss rate: 0.33%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-24 13:45:20

End at: 2018-04-24 13:45:50

# Below is generated by plot.py at 2018-04-24 17:03:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 51.27 Mbit/s

95th percentile per-packet one-way delay: 50.658 ms

Loss rate: 0.09%

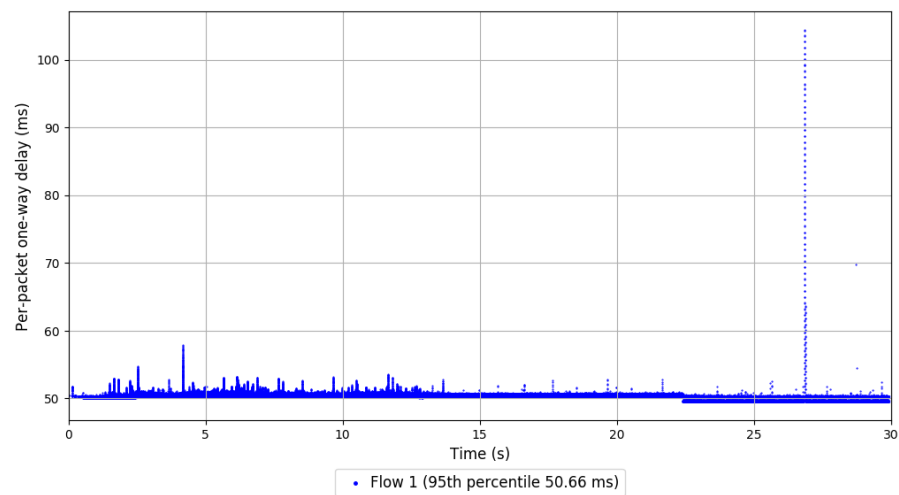
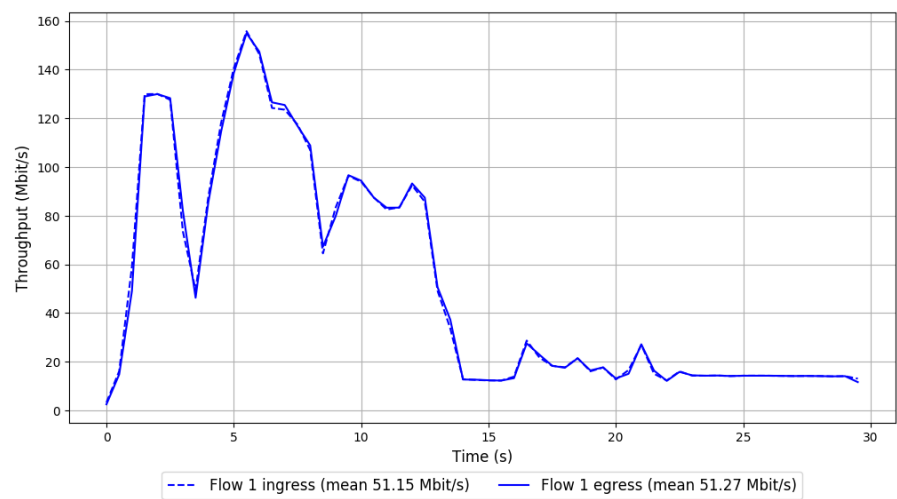
-- Flow 1:

Average throughput: 51.27 Mbit/s

95th percentile per-packet one-way delay: 50.658 ms

Loss rate: 0.09%

Run 10: Report of Copa — Data Link

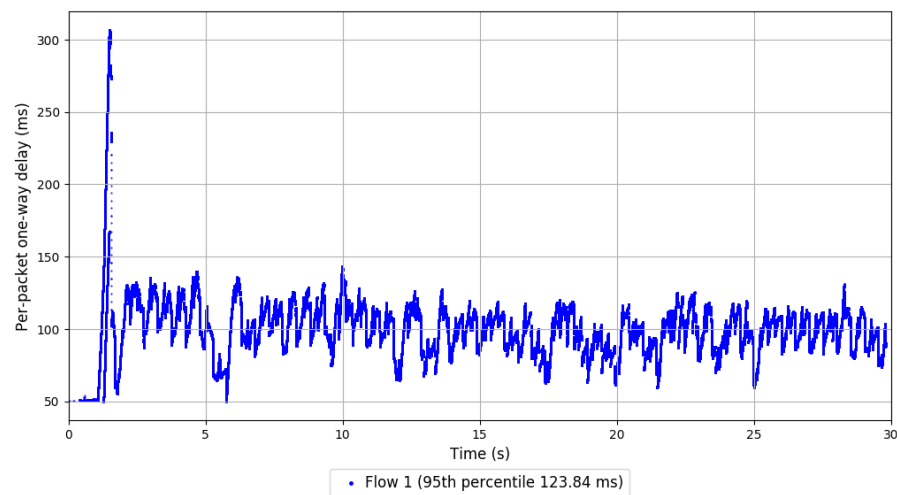
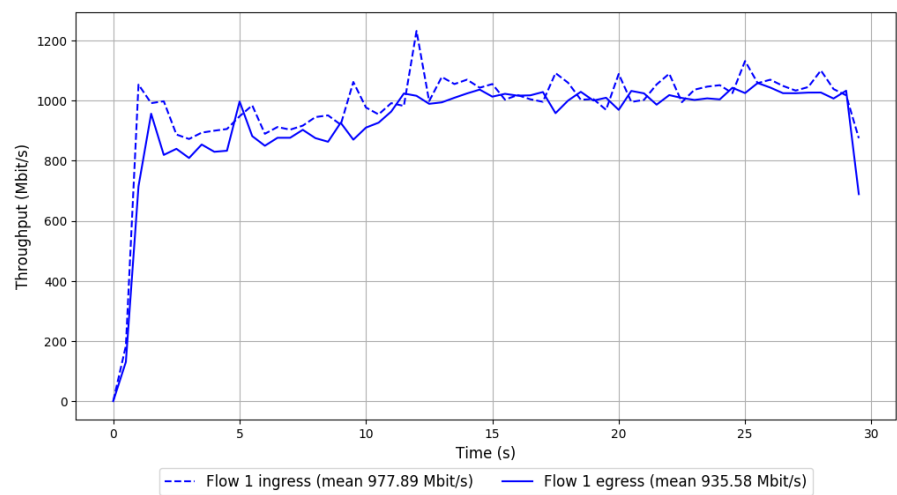


```
Run 1: Statistics of FillP

Start at: 2018-04-24 11:49:51
End at: 2018-04-24 11:50:21

# Below is generated by plot.py at 2018-04-24 17:18:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 935.58 Mbit/s
95th percentile per-packet one-way delay: 123.844 ms
Loss rate: 4.71%
-- Flow 1:
Average throughput: 935.58 Mbit/s
95th percentile per-packet one-way delay: 123.844 ms
Loss rate: 4.71%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-24 12:03:00

End at: 2018-04-24 12:03:30

# Below is generated by plot.py at 2018-04-24 17:18:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 836.25 Mbit/s

95th percentile per-packet one-way delay: 133.117 ms

Loss rate: 6.19%

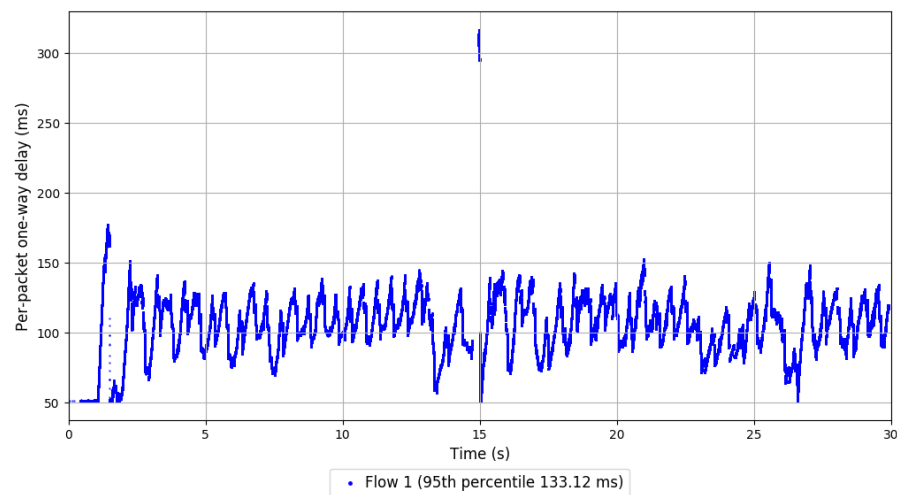
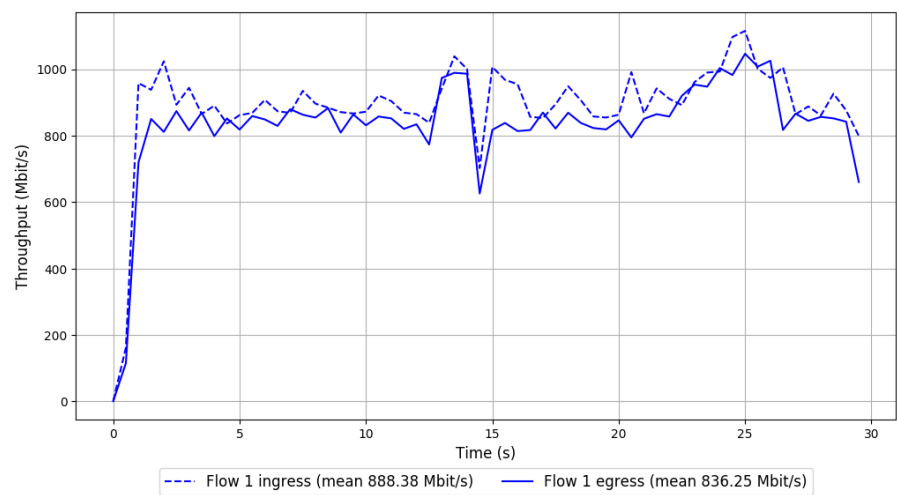
-- Flow 1:

Average throughput: 836.25 Mbit/s

95th percentile per-packet one-way delay: 133.117 ms

Loss rate: 6.19%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-24 12:16:15

End at: 2018-04-24 12:16:45

# Below is generated by plot.py at 2018-04-24 17:18:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 787.12 Mbit/s

95th percentile per-packet one-way delay: 131.640 ms

Loss rate: 4.88%

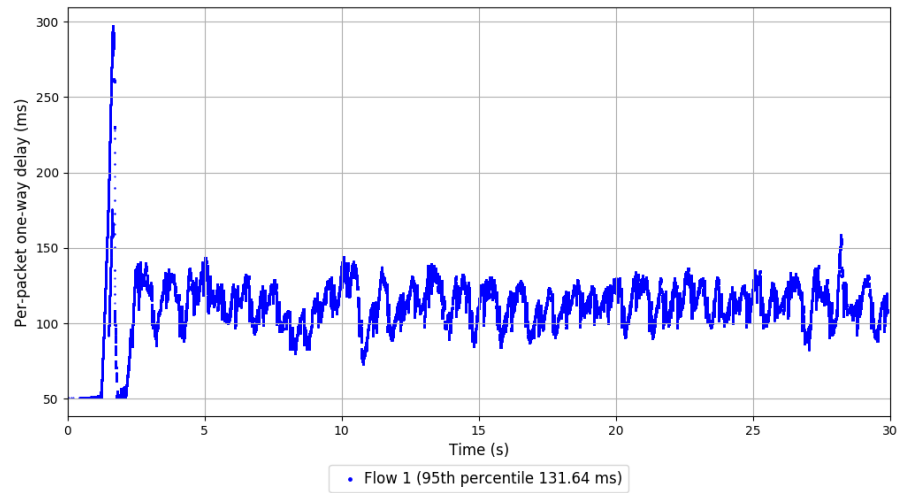
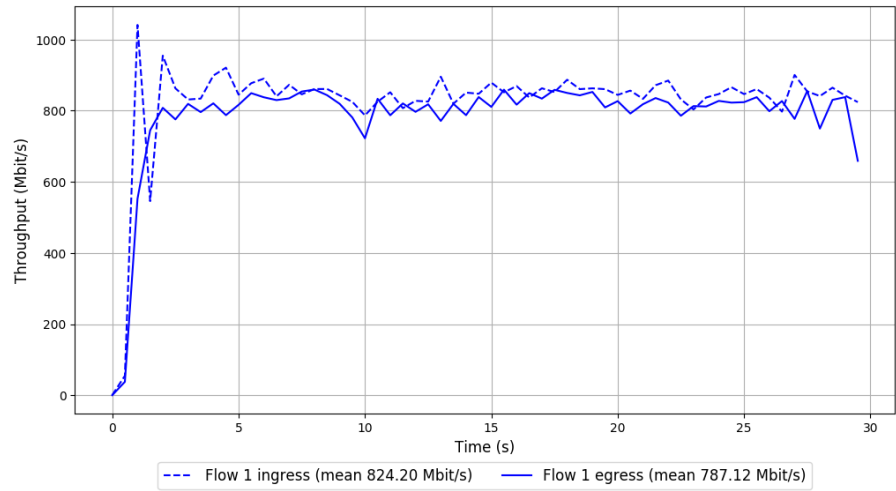
-- Flow 1:

Average throughput: 787.12 Mbit/s

95th percentile per-packet one-way delay: 131.640 ms

Loss rate: 4.88%

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



Run 4: Statistics of FillP

Start at: 2018-04-24 12:29:32

End at: 2018-04-24 12:30:02

# Below is generated by plot.py at 2018-04-24 17:18:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 794.18 Mbit/s

95th percentile per-packet one-way delay: 131.387 ms

Loss rate: 6.54%

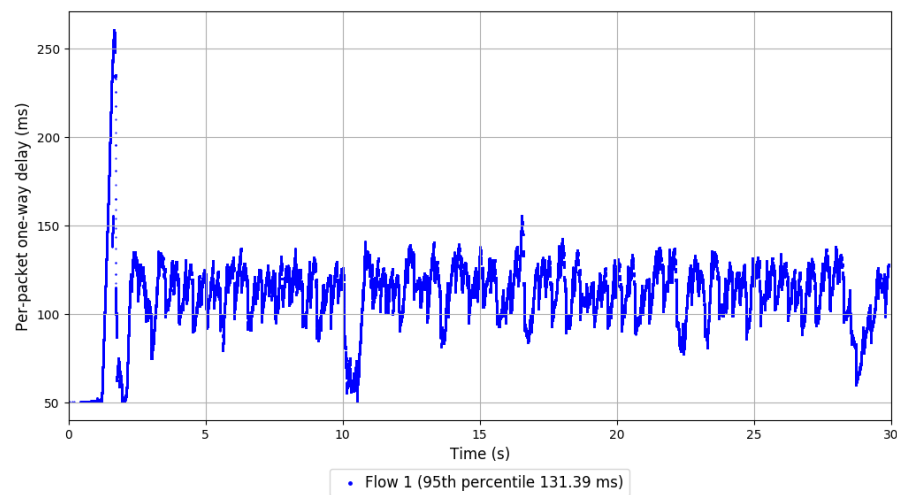
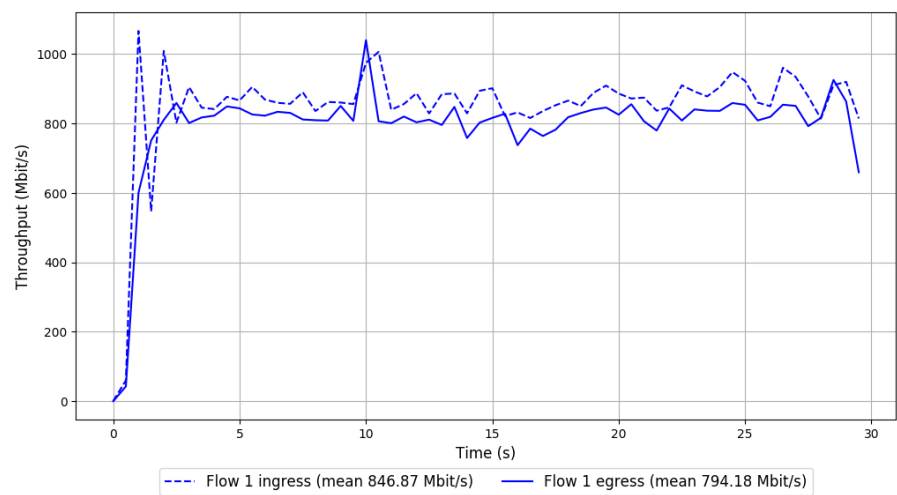
-- Flow 1:

Average throughput: 794.18 Mbit/s

95th percentile per-packet one-way delay: 131.387 ms

Loss rate: 6.54%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-24 12:42:41

End at: 2018-04-24 12:43:11

# Below is generated by plot.py at 2018-04-24 17:18:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 837.80 Mbit/s

95th percentile per-packet one-way delay: 131.324 ms

Loss rate: 5.55%

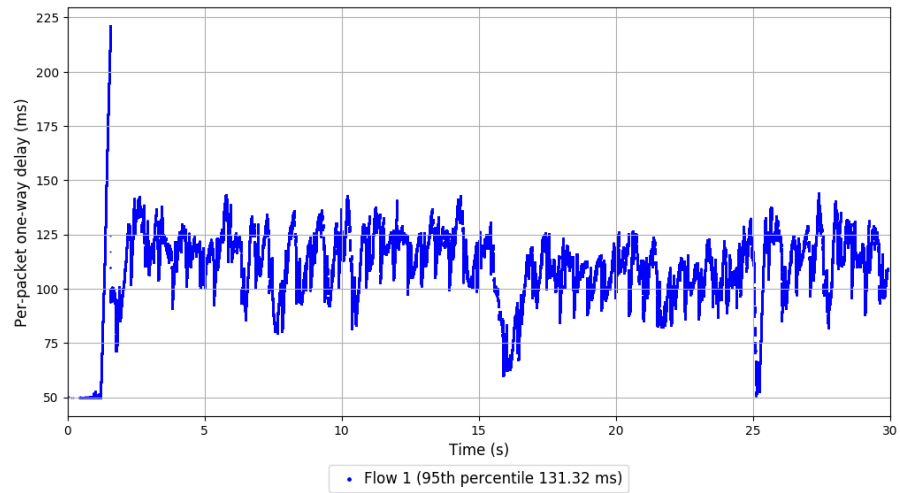
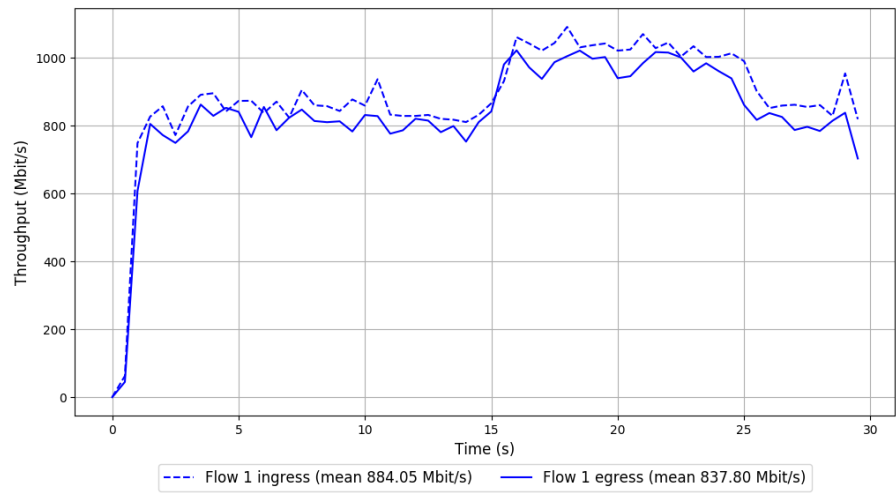
-- Flow 1:

Average throughput: 837.80 Mbit/s

95th percentile per-packet one-way delay: 131.324 ms

Loss rate: 5.55%

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



Run 6: Statistics of FillP

Start at: 2018-04-24 12:55:54

End at: 2018-04-24 12:56:24

# Below is generated by plot.py at 2018-04-24 17:18:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 749.09 Mbit/s

95th percentile per-packet one-way delay: 143.032 ms

Loss rate: 9.82%

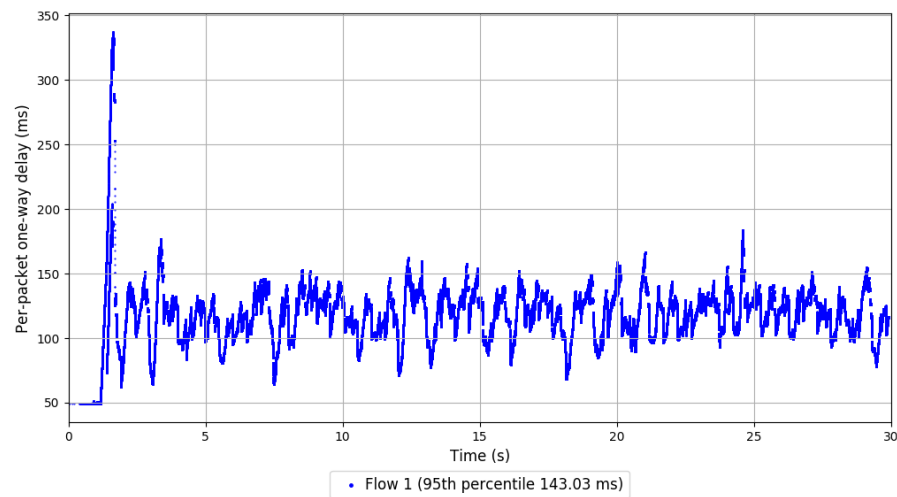
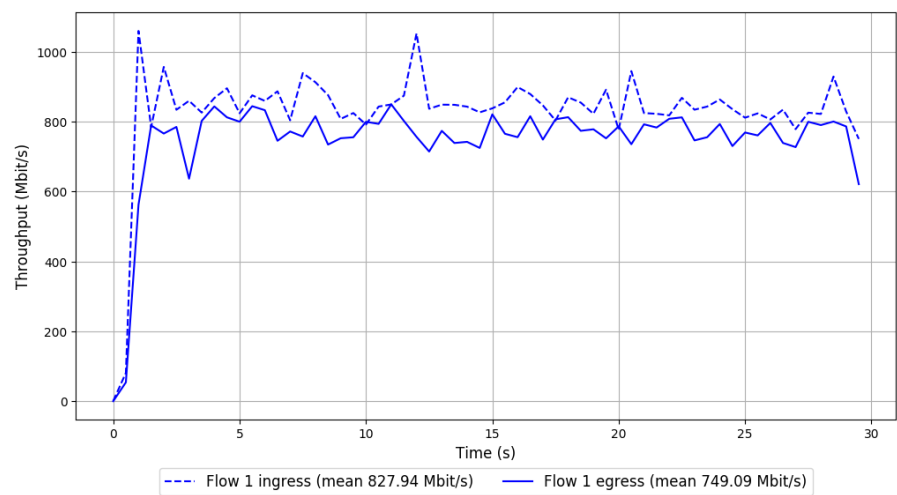
-- Flow 1:

Average throughput: 749.09 Mbit/s

95th percentile per-packet one-way delay: 143.032 ms

Loss rate: 9.82%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-24 13:09:11

End at: 2018-04-24 13:09:41

# Below is generated by plot.py at 2018-04-24 17:18:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 786.84 Mbit/s

95th percentile per-packet one-way delay: 141.433 ms

Loss rate: 8.22%

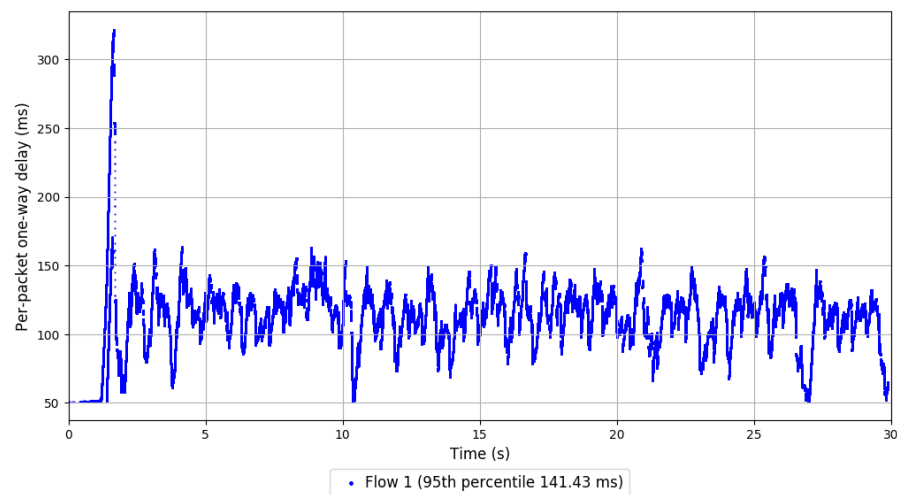
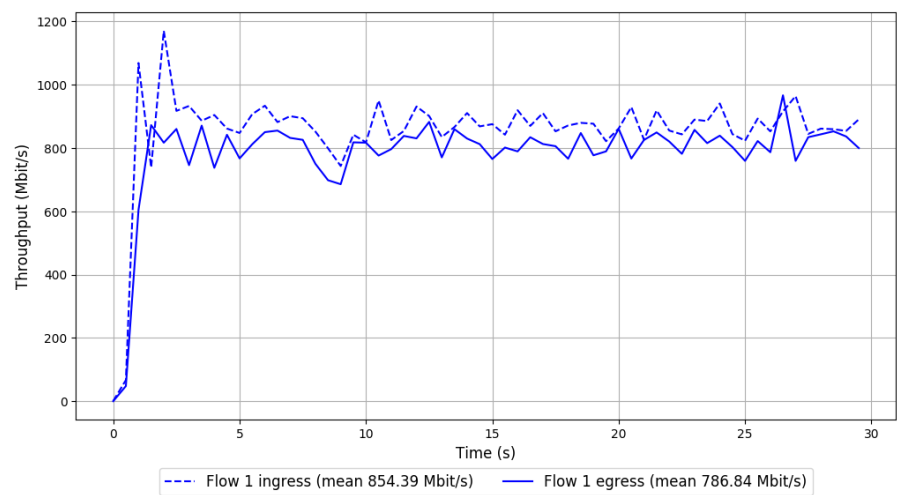
-- Flow 1:

Average throughput: 786.84 Mbit/s

95th percentile per-packet one-way delay: 141.433 ms

Loss rate: 8.22%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-24 13:22:27

End at: 2018-04-24 13:22:57

# Below is generated by plot.py at 2018-04-24 17:18:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 792.83 Mbit/s

95th percentile per-packet one-way delay: 135.904 ms

Loss rate: 6.91%

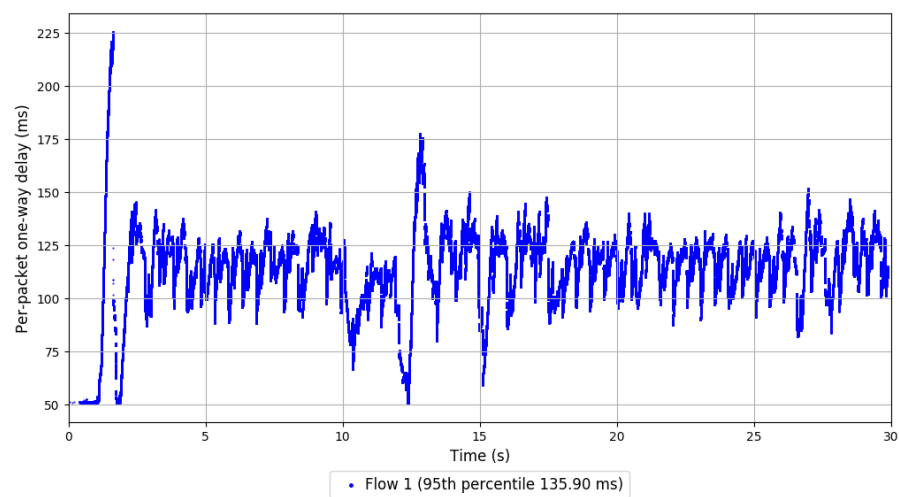
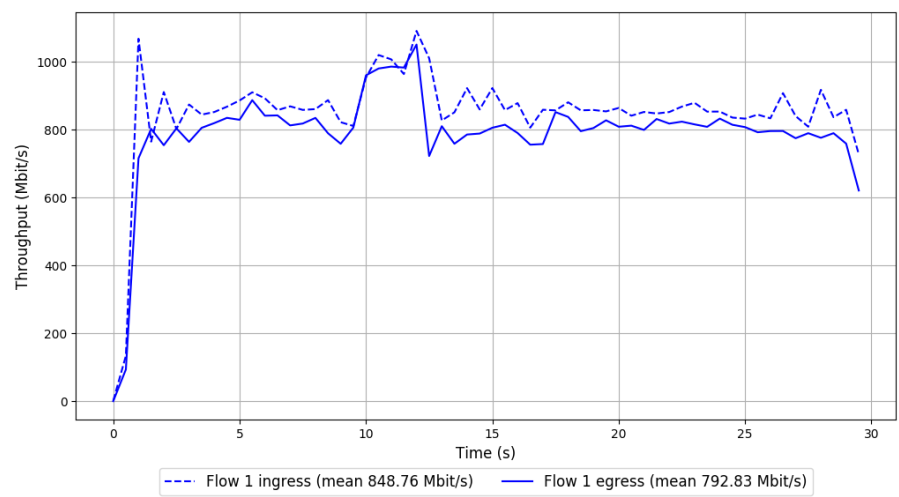
-- Flow 1:

Average throughput: 792.83 Mbit/s

95th percentile per-packet one-way delay: 135.904 ms

Loss rate: 6.91%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-24 13:35:43

End at: 2018-04-24 13:36:13

# Below is generated by plot.py at 2018-04-24 17:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 787.54 Mbit/s

95th percentile per-packet one-way delay: 134.816 ms

Loss rate: 6.67%

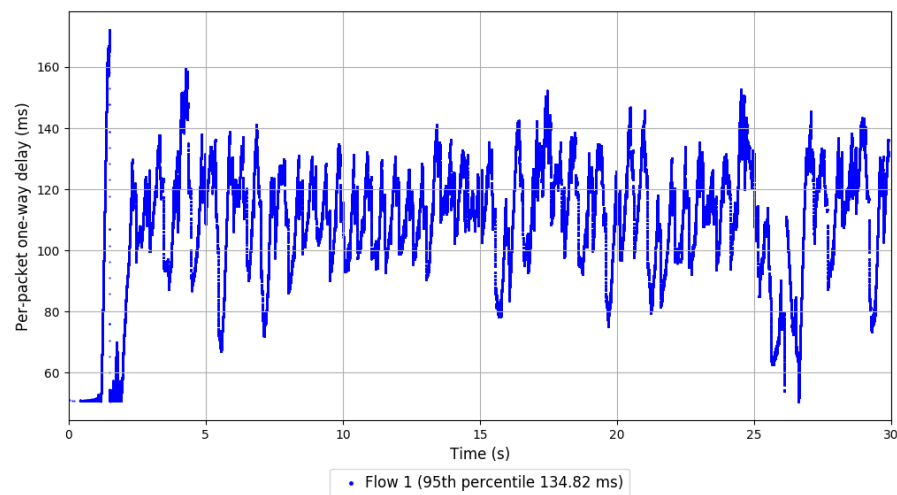
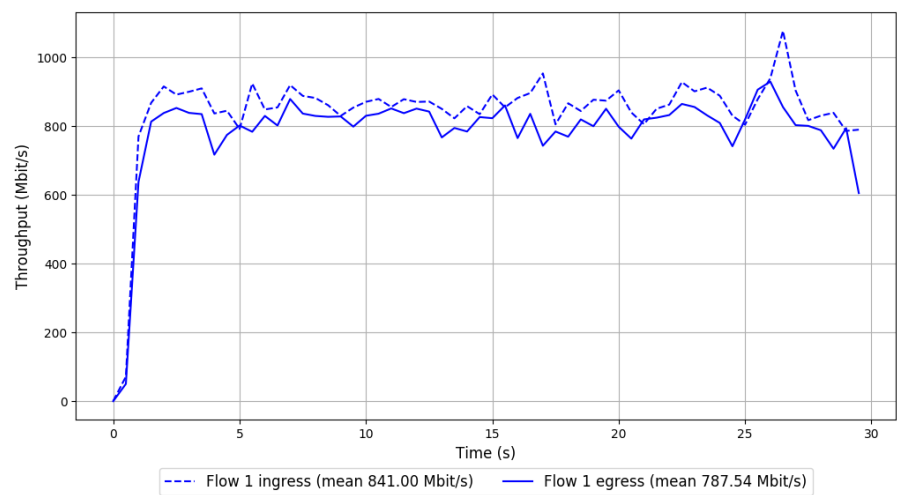
-- Flow 1:

Average throughput: 787.54 Mbit/s

95th percentile per-packet one-way delay: 134.816 ms

Loss rate: 6.67%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-24 13:48:56

End at: 2018-04-24 13:49:26

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 811.04 Mbit/s

95th percentile per-packet one-way delay: 137.431 ms

Loss rate: 6.96%

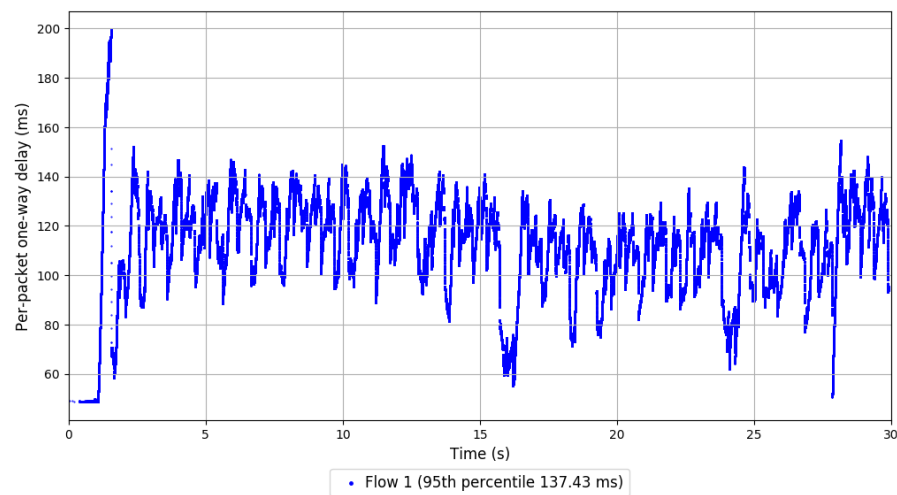
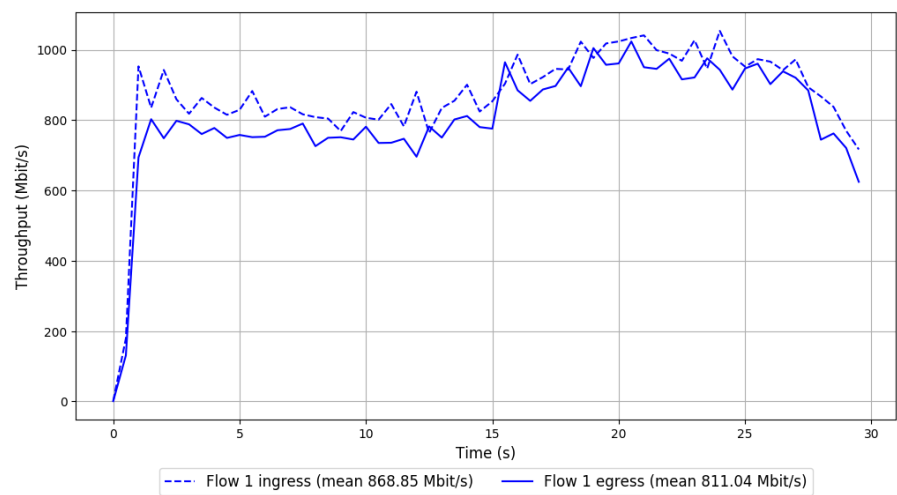
-- Flow 1:

Average throughput: 811.04 Mbit/s

95th percentile per-packet one-way delay: 137.431 ms

Loss rate: 6.96%

Run 10: Report of FillP — Data Link

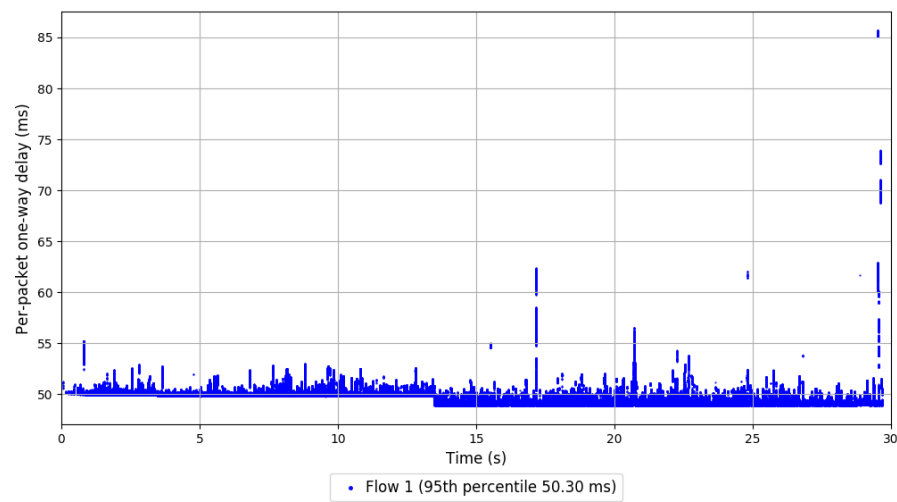
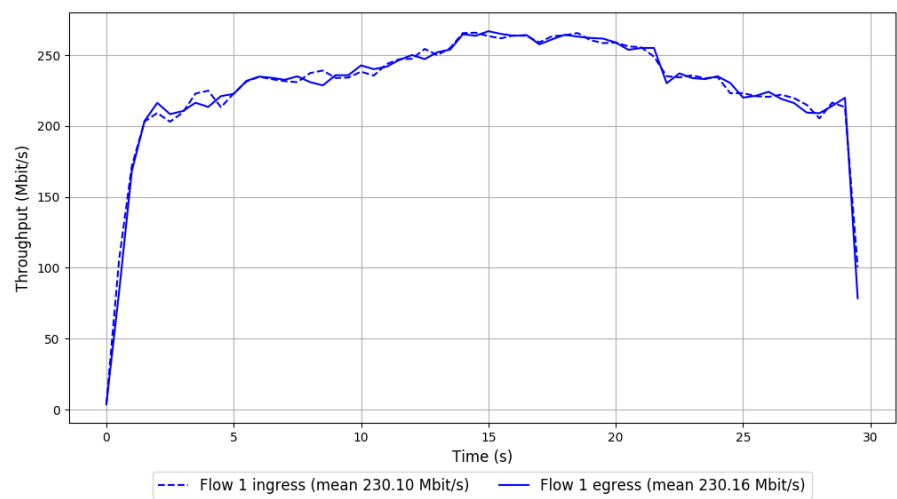


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 11:56:39
End at: 2018-04-24 11:57:09

# Below is generated by plot.py at 2018-04-24 17:31:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.16 Mbit/s
95th percentile per-packet one-way delay: 50.299 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 230.16 Mbit/s
95th percentile per-packet one-way delay: 50.299 ms
Loss rate: 0.31%
```

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

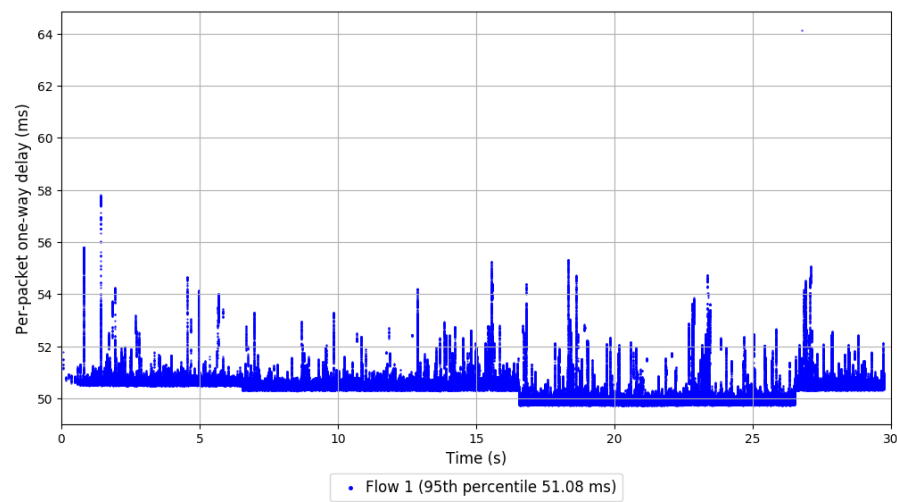
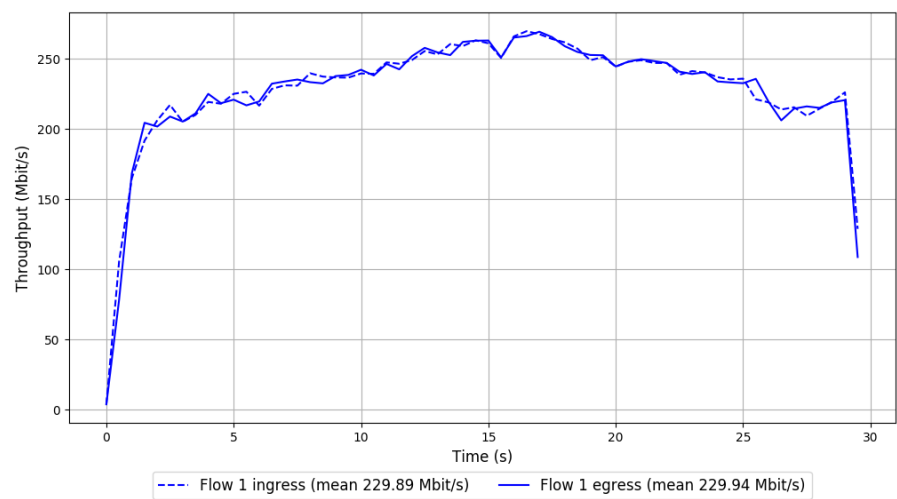


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 12:09:46
End at: 2018-04-24 12:10:16

# Below is generated by plot.py at 2018-04-24 17:31:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.94 Mbit/s
95th percentile per-packet one-way delay: 51.075 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 229.94 Mbit/s
95th percentile per-packet one-way delay: 51.075 ms
Loss rate: 0.32%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-24 12:22:59

End at: 2018-04-24 12:23:29

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 241.17 Mbit/s

95th percentile per-packet one-way delay: 50.531 ms

Loss rate: 0.33%

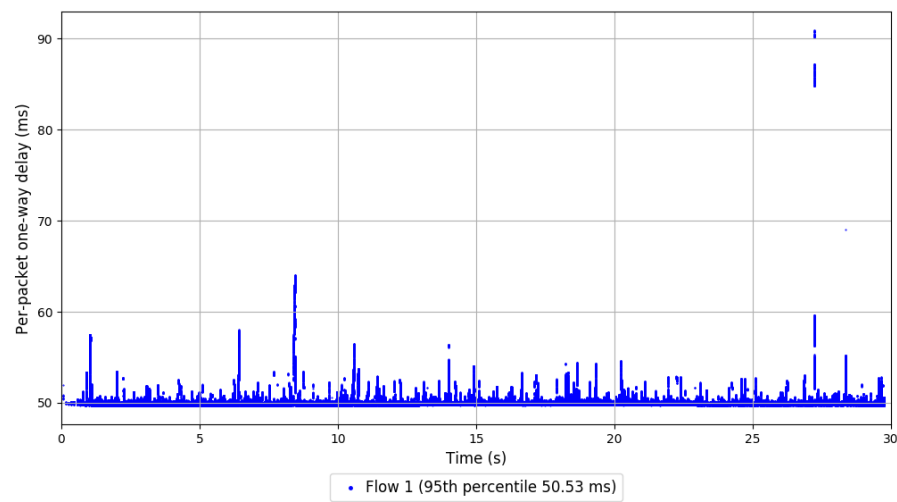
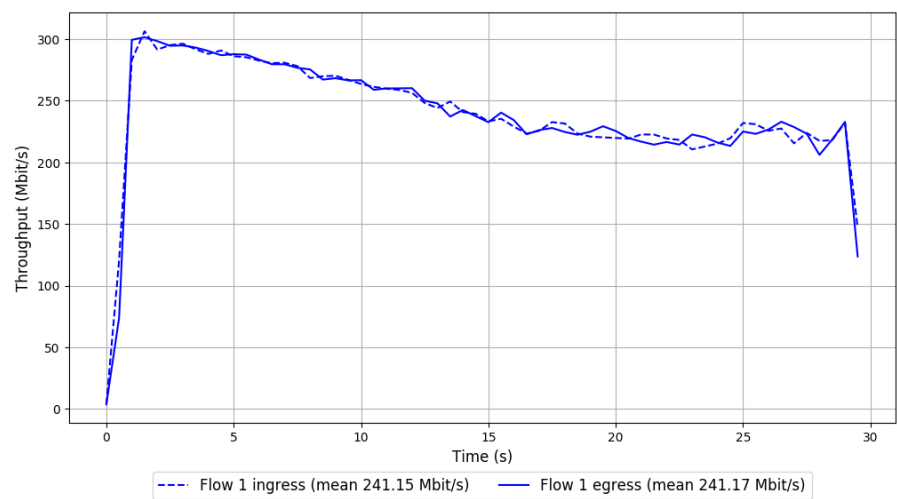
-- Flow 1:

Average throughput: 241.17 Mbit/s

95th percentile per-packet one-way delay: 50.531 ms

Loss rate: 0.33%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-24 12:36:17

End at: 2018-04-24 12:36:47

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 232.54 Mbit/s

95th percentile per-packet one-way delay: 51.072 ms

Loss rate: 0.32%

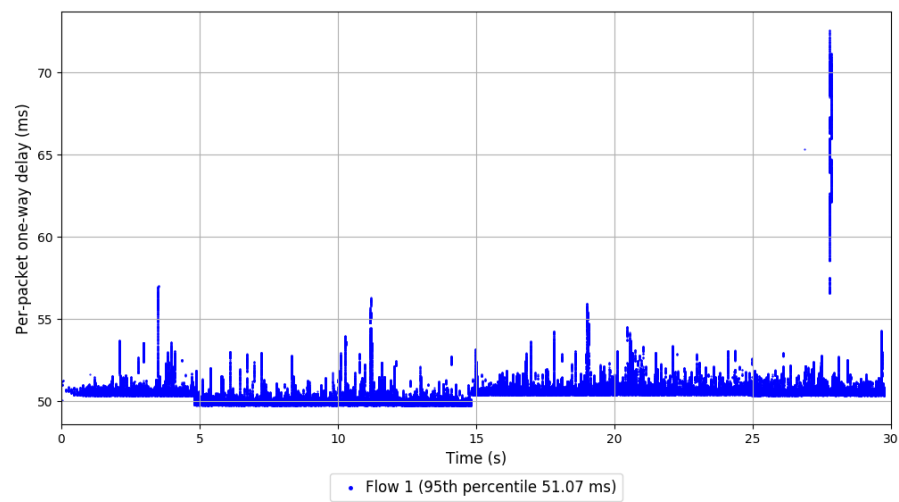
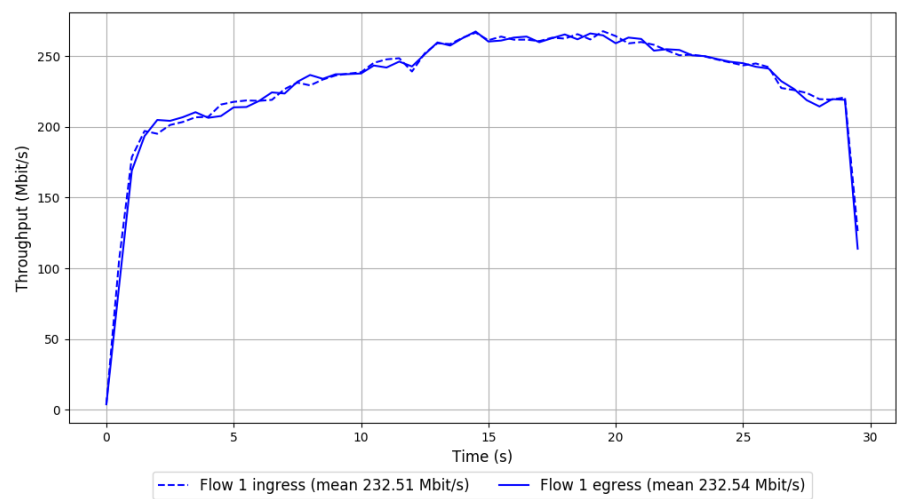
-- Flow 1:

Average throughput: 232.54 Mbit/s

95th percentile per-packet one-way delay: 51.072 ms

Loss rate: 0.32%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-24 12:49:26

End at: 2018-04-24 12:49:56

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 231.73 Mbit/s

95th percentile per-packet one-way delay: 51.284 ms

Loss rate: 0.34%

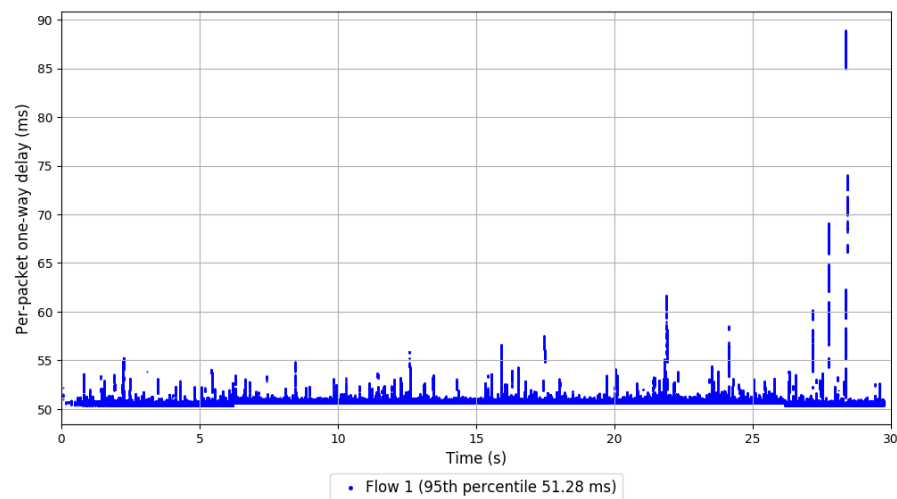
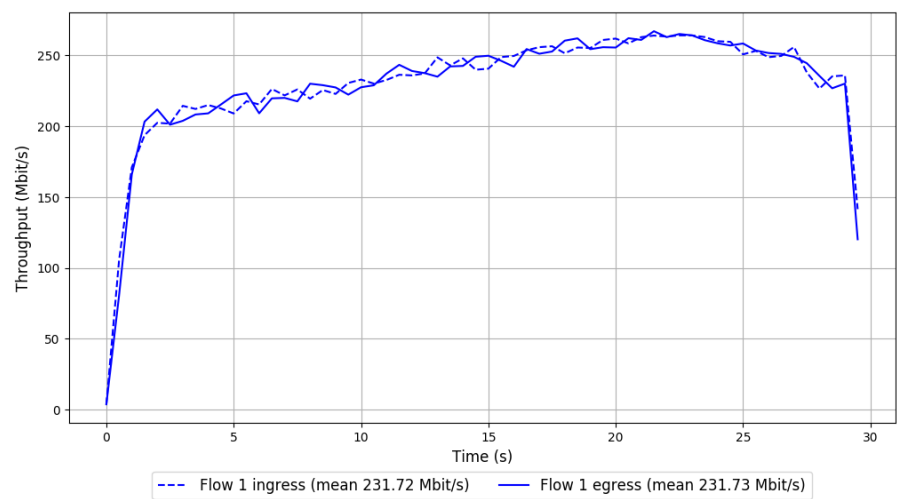
-- Flow 1:

Average throughput: 231.73 Mbit/s

95th percentile per-packet one-way delay: 51.284 ms

Loss rate: 0.34%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 13:02:40

End at: 2018-04-24 13:03:10

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 229.18 Mbit/s

95th percentile per-packet one-way delay: 51.358 ms

Loss rate: 0.34%

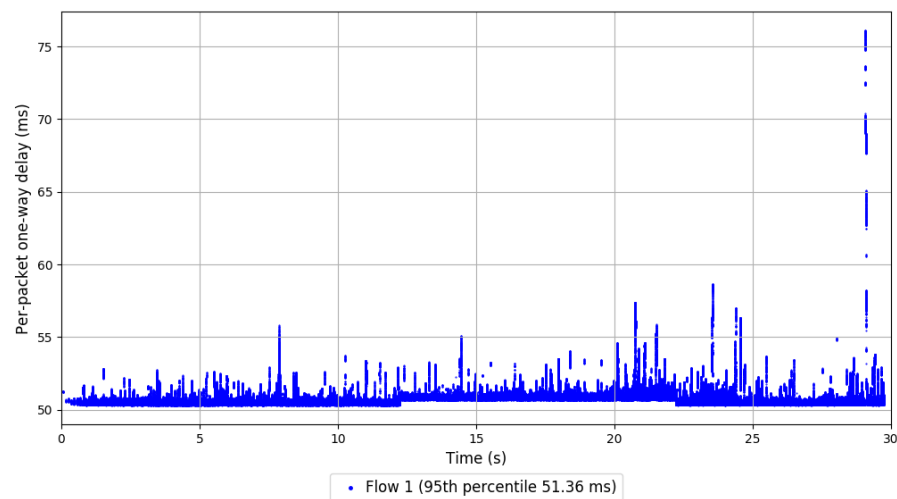
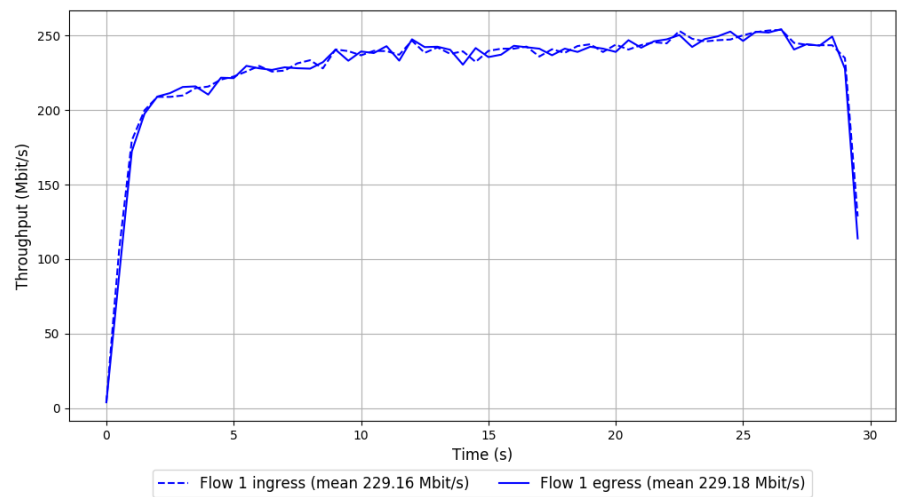
-- Flow 1:

Average throughput: 229.18 Mbit/s

95th percentile per-packet one-way delay: 51.358 ms

Loss rate: 0.34%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-24 13:15:56

End at: 2018-04-24 13:16:26

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 228.92 Mbit/s

95th percentile per-packet one-way delay: 52.031 ms

Loss rate: 0.31%

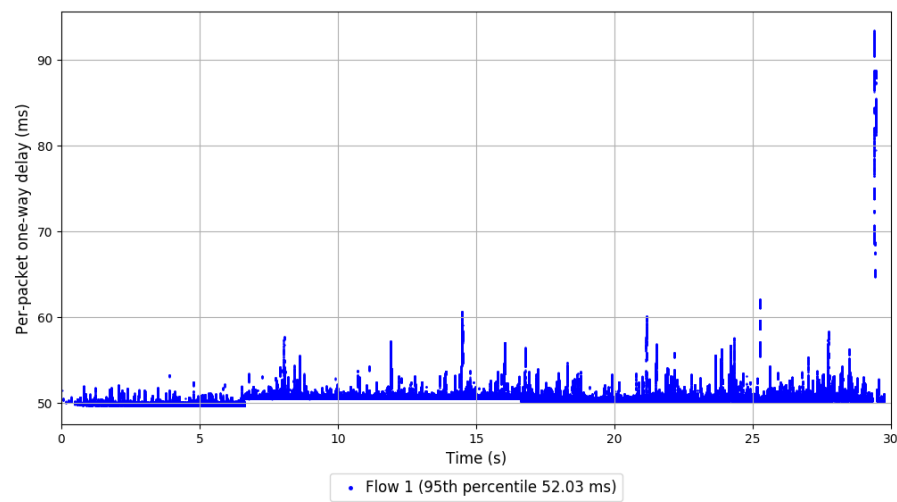
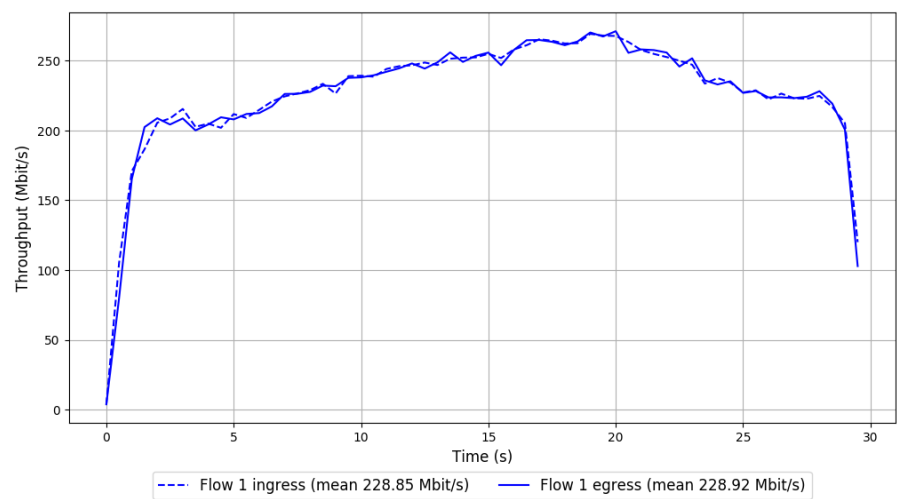
-- Flow 1:

Average throughput: 228.92 Mbit/s

95th percentile per-packet one-way delay: 52.031 ms

Loss rate: 0.31%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-24 13:29:15

End at: 2018-04-24 13:29:45

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 218.36 Mbit/s

95th percentile per-packet one-way delay: 50.857 ms

Loss rate: 0.37%

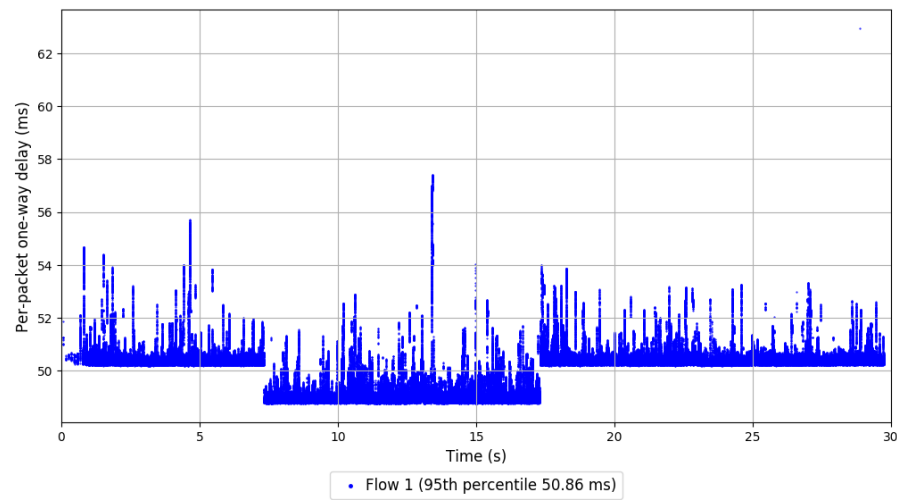
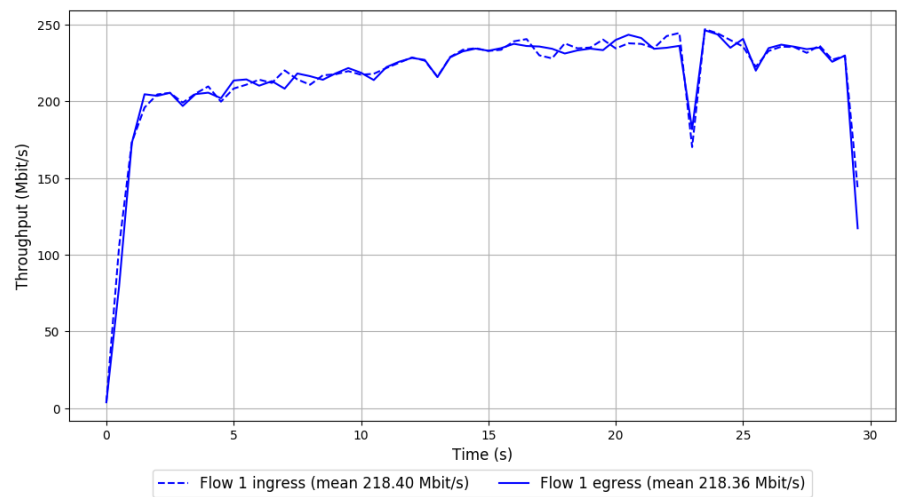
-- Flow 1:

Average throughput: 218.36 Mbit/s

95th percentile per-packet one-way delay: 50.857 ms

Loss rate: 0.37%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-24 13:42:28

End at: 2018-04-24 13:42:58

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 246.30 Mbit/s

95th percentile per-packet one-way delay: 50.789 ms

Loss rate: 0.35%

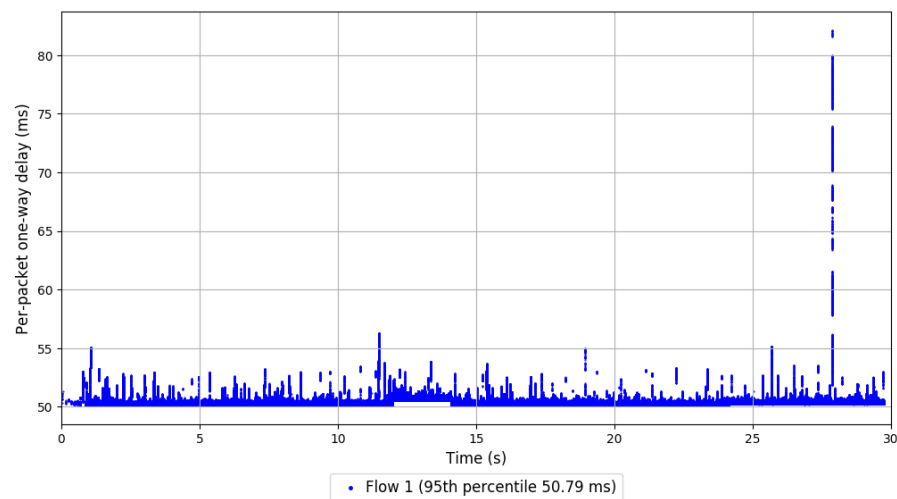
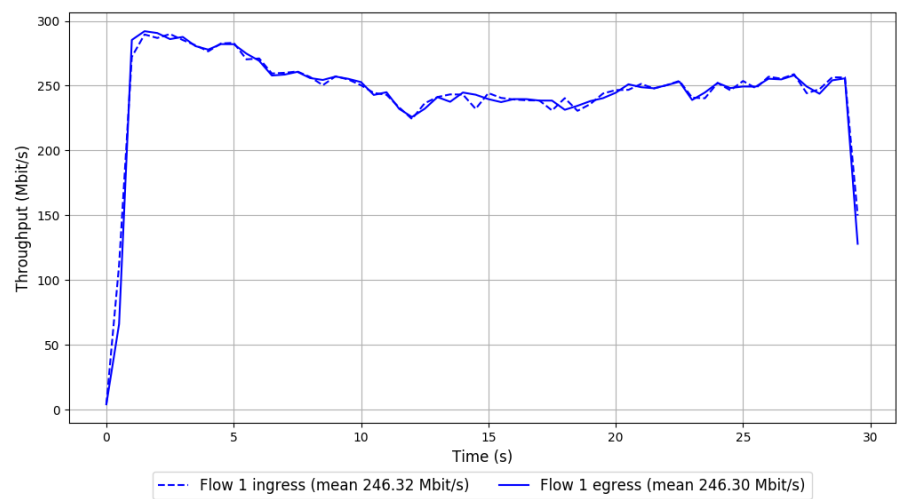
-- Flow 1:

Average throughput: 246.30 Mbit/s

95th percentile per-packet one-way delay: 50.789 ms

Loss rate: 0.35%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-24 13:55:39

End at: 2018-04-24 13:56:09

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.87 Mbit/s

95th percentile per-packet one-way delay: 51.836 ms

Loss rate: 0.35%

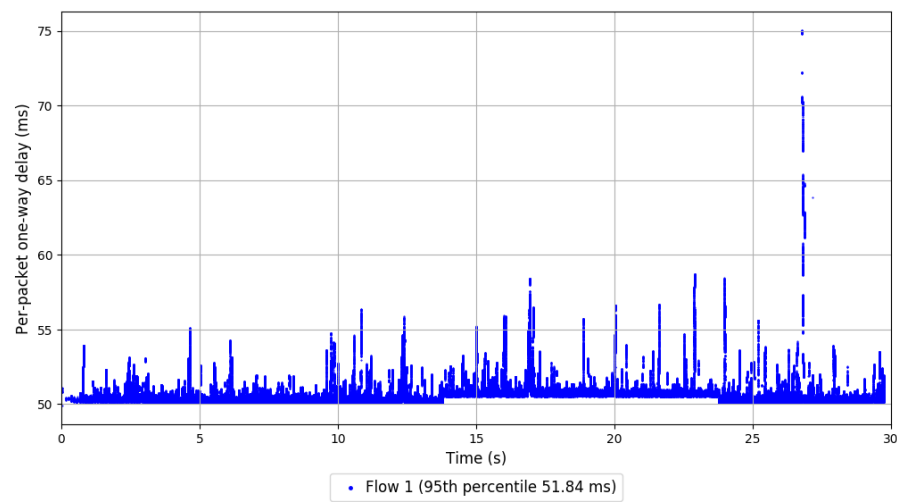
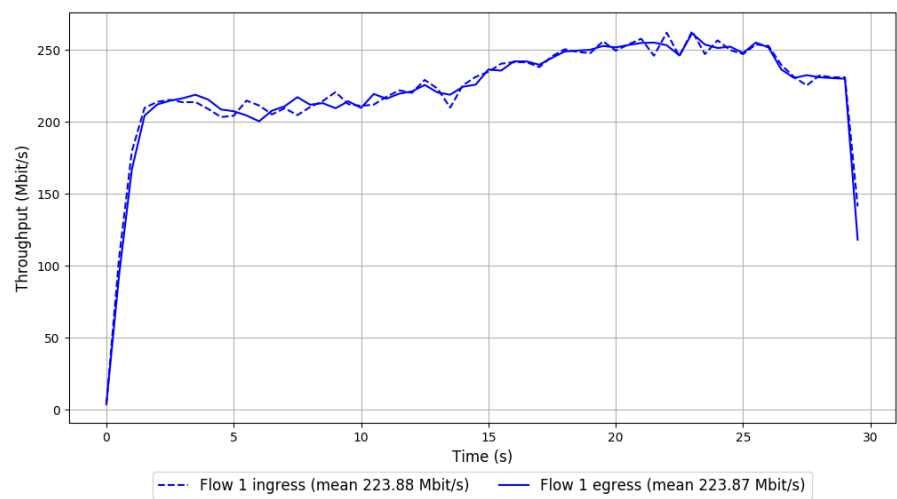
-- Flow 1:

Average throughput: 223.87 Mbit/s

95th percentile per-packet one-way delay: 51.836 ms

Loss rate: 0.35%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 11:55:42

End at: 2018-04-24 11:56:12

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 304.88 Mbit/s

95th percentile per-packet one-way delay: 63.258 ms

Loss rate: 0.42%

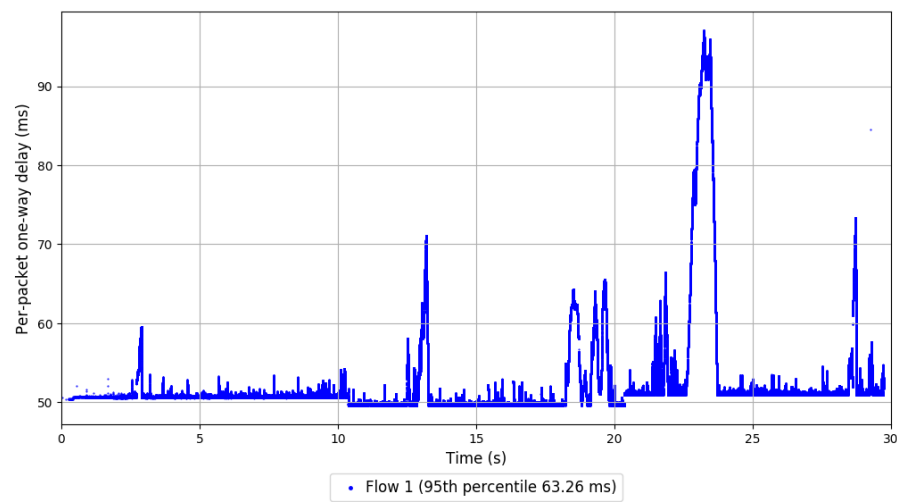
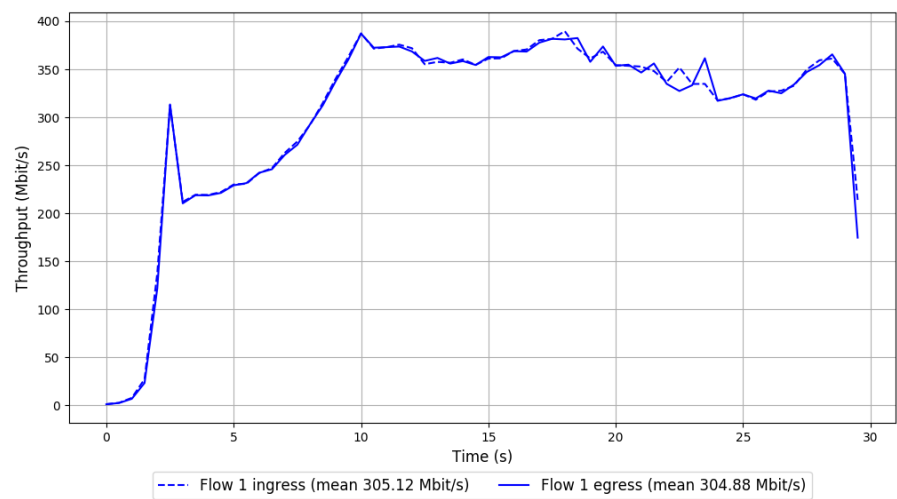
-- Flow 1:

Average throughput: 304.88 Mbit/s

95th percentile per-packet one-way delay: 63.258 ms

Loss rate: 0.42%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 12:08:49

End at: 2018-04-24 12:09:19

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 303.22 Mbit/s

95th percentile per-packet one-way delay: 53.772 ms

Loss rate: 0.40%

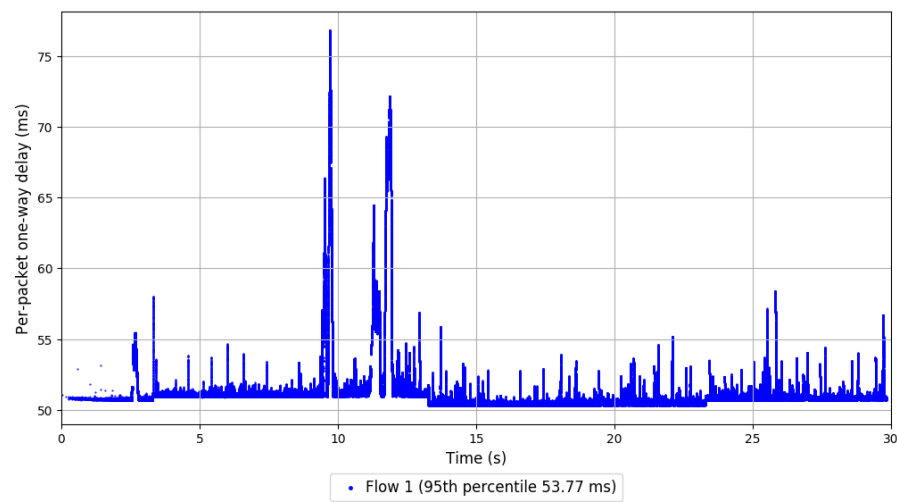
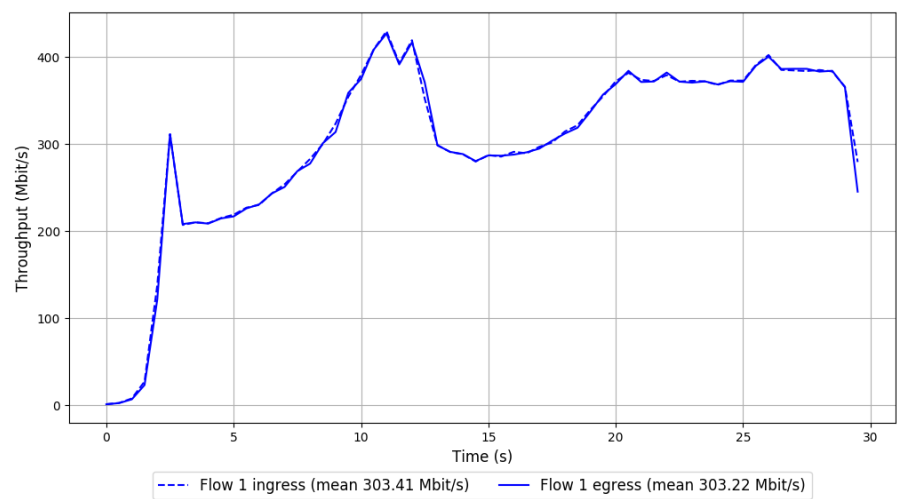
-- Flow 1:

Average throughput: 303.22 Mbit/s

95th percentile per-packet one-way delay: 53.772 ms

Loss rate: 0.40%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 12:22:01

End at: 2018-04-24 12:22:31

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 330.50 Mbit/s

95th percentile per-packet one-way delay: 81.519 ms

Loss rate: 0.58%

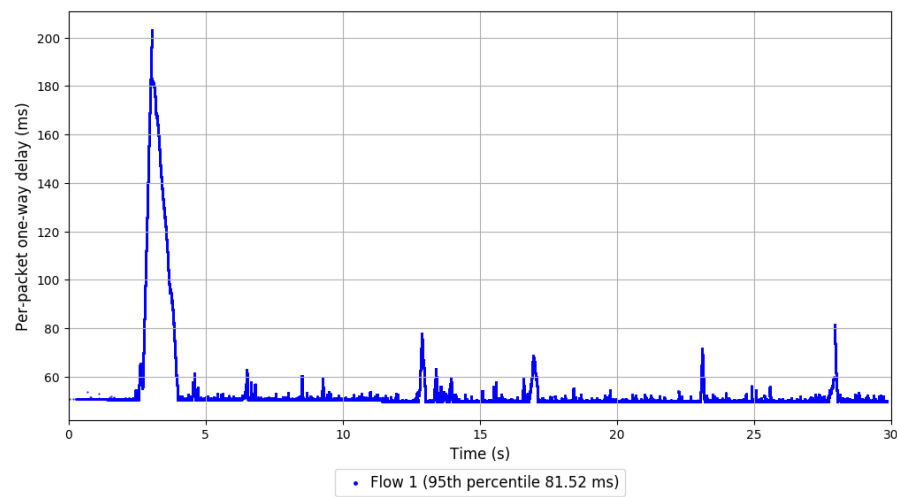
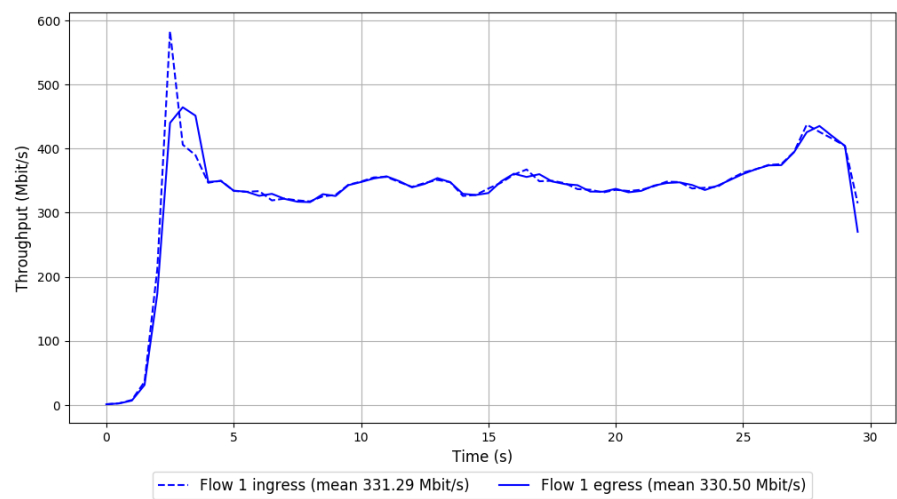
-- Flow 1:

Average throughput: 330.50 Mbit/s

95th percentile per-packet one-way delay: 81.519 ms

Loss rate: 0.58%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 12:35:20

End at: 2018-04-24 12:35:50

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 309.44 Mbit/s

95th percentile per-packet one-way delay: 54.528 ms

Loss rate: 0.39%

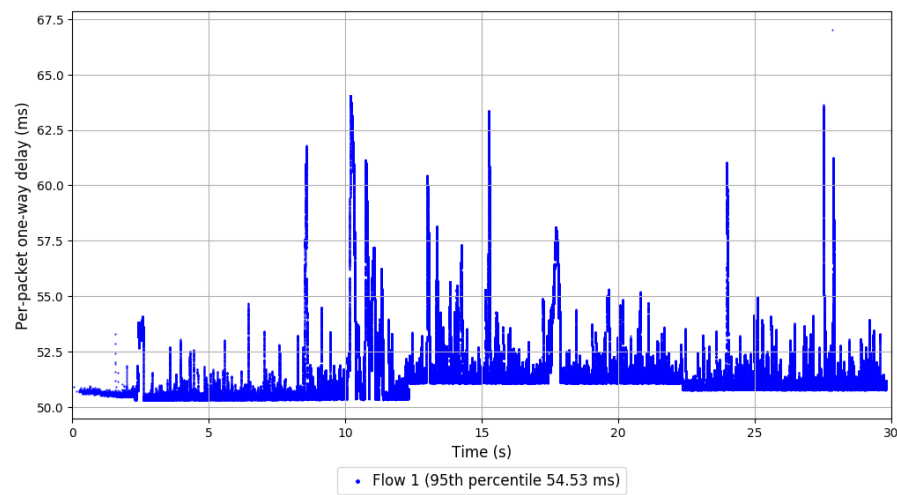
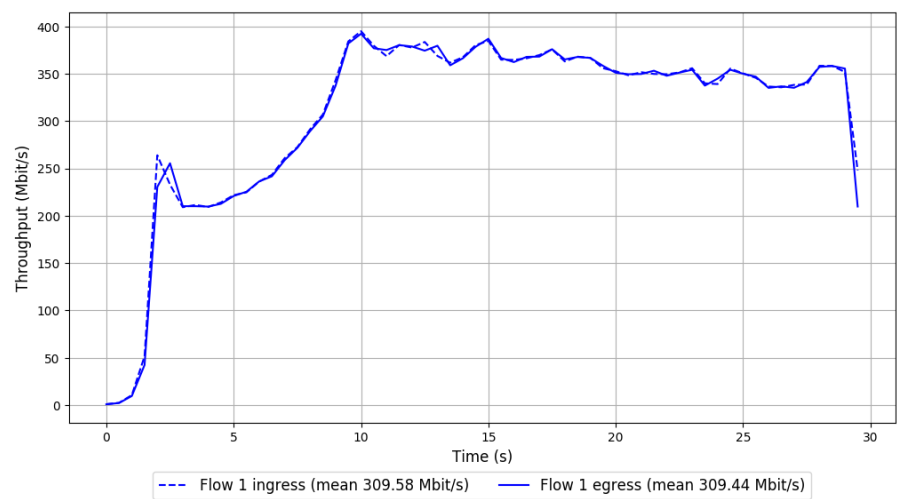
-- Flow 1:

Average throughput: 309.44 Mbit/s

95th percentile per-packet one-way delay: 54.528 ms

Loss rate: 0.39%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 12:48:29

End at: 2018-04-24 12:48:59

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 303.40 Mbit/s

95th percentile per-packet one-way delay: 54.637 ms

Loss rate: 0.73%

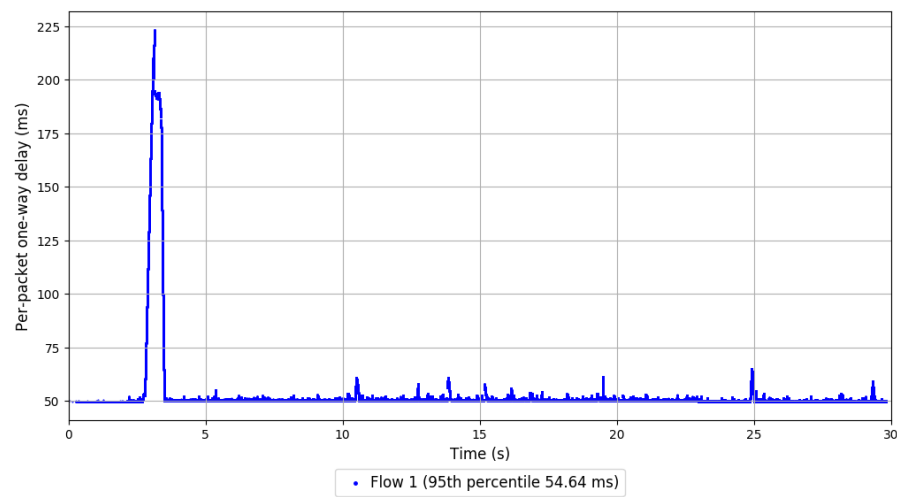
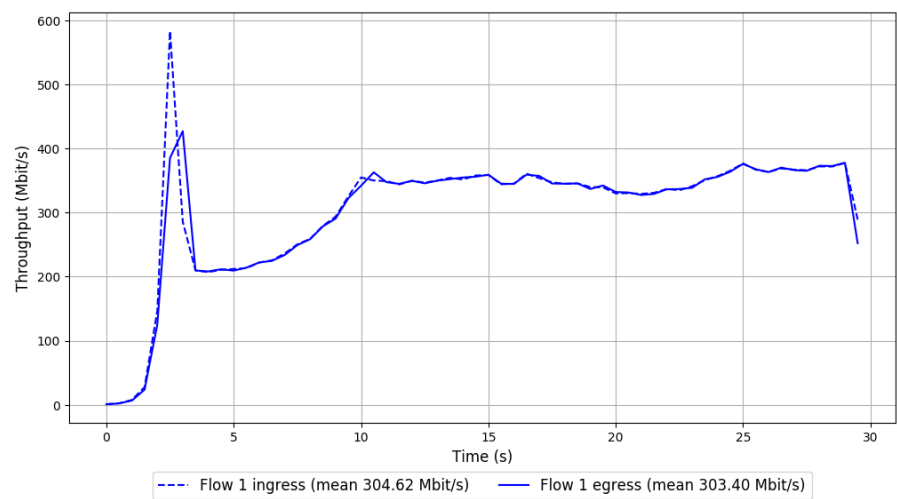
-- Flow 1:

Average throughput: 303.40 Mbit/s

95th percentile per-packet one-way delay: 54.637 ms

Loss rate: 0.73%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 13:01:43

End at: 2018-04-24 13:02:13

# Below is generated by plot.py at 2018-04-24 17:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 298.18 Mbit/s

95th percentile per-packet one-way delay: 120.739 ms

Loss rate: 0.71%

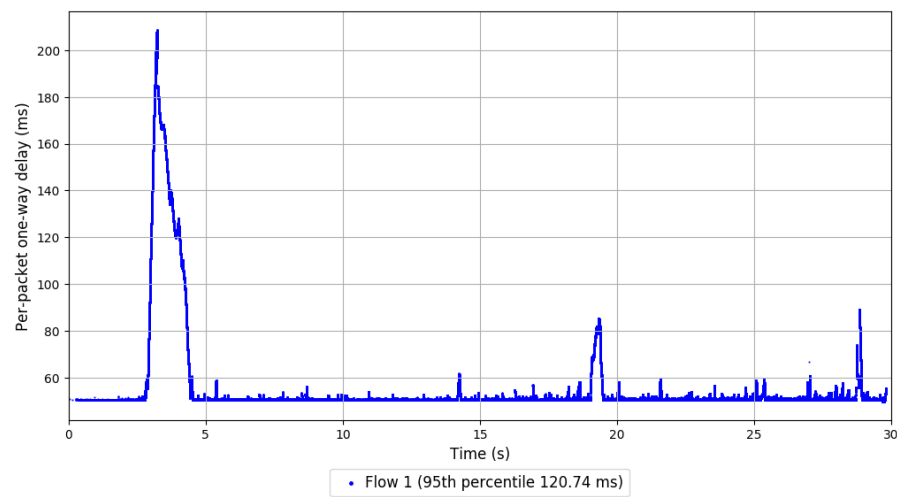
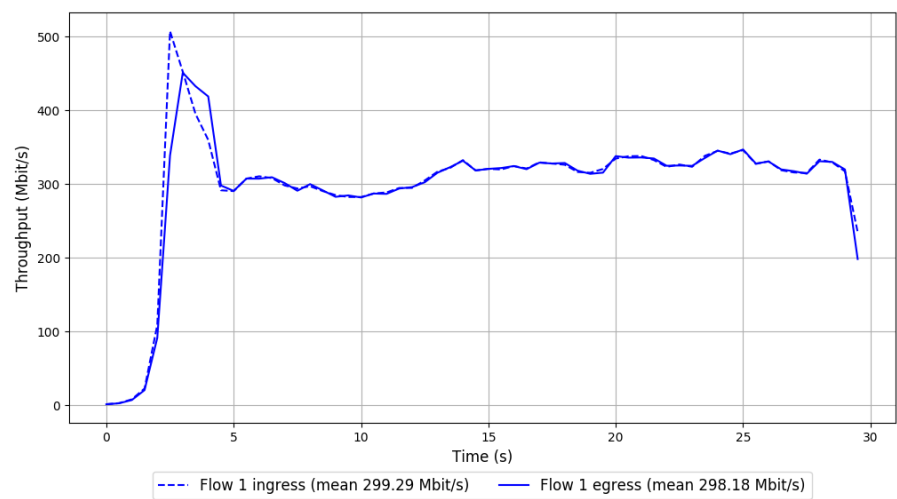
-- Flow 1:

Average throughput: 298.18 Mbit/s

95th percentile per-packet one-way delay: 120.739 ms

Loss rate: 0.71%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 13:14:57

End at: 2018-04-24 13:15:27

# Below is generated by plot.py at 2018-04-24 17:32:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 322.63 Mbit/s

95th percentile per-packet one-way delay: 149.096 ms

Loss rate: 0.56%

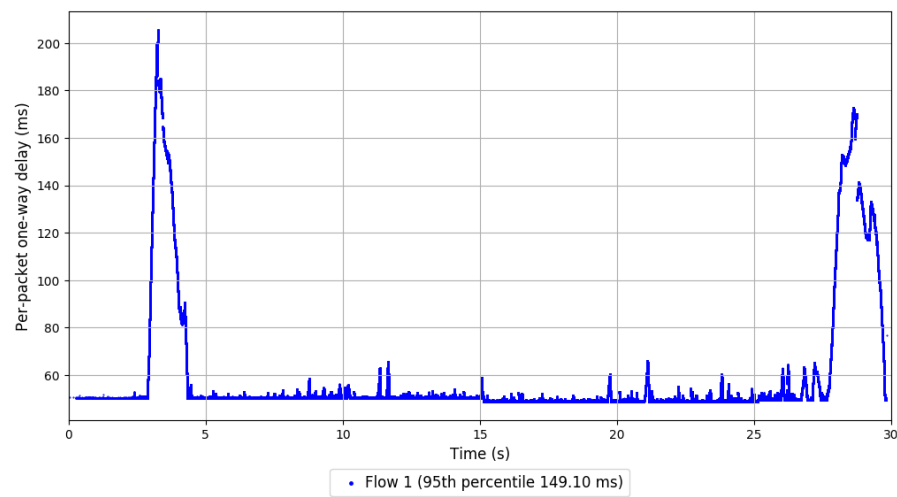
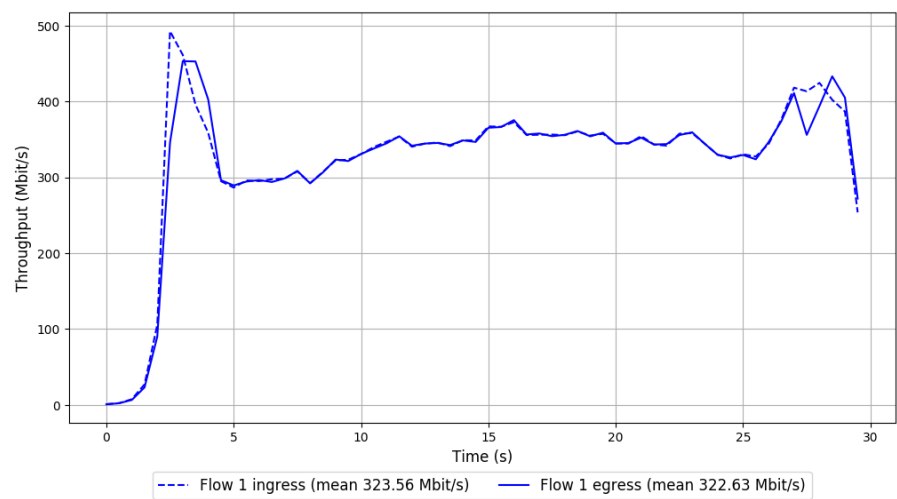
-- Flow 1:

Average throughput: 322.63 Mbit/s

95th percentile per-packet one-way delay: 149.096 ms

Loss rate: 0.56%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 13:28:17

End at: 2018-04-24 13:28:47

# Below is generated by plot.py at 2018-04-24 17:33:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 330.03 Mbit/s

95th percentile per-packet one-way delay: 75.898 ms

Loss rate: 0.37%

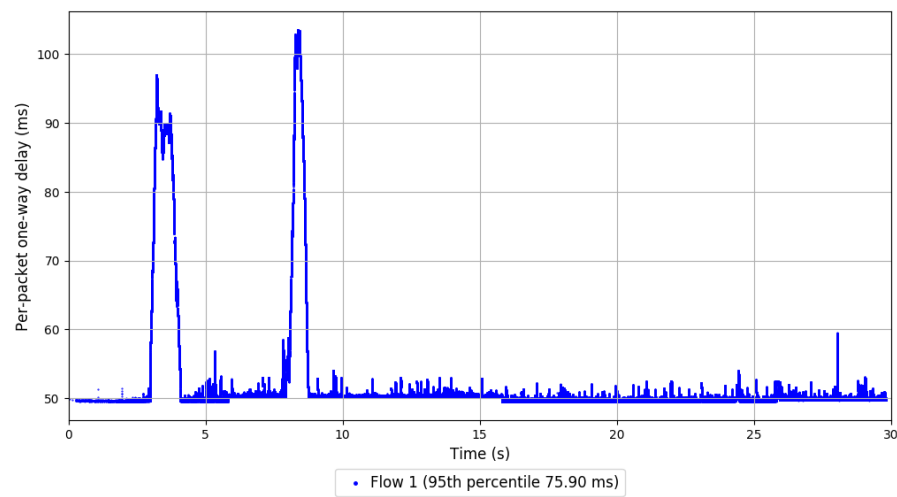
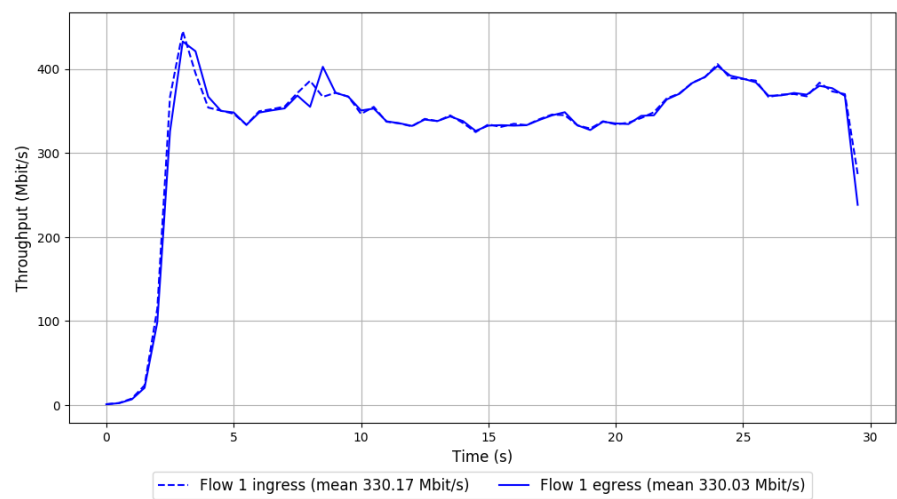
-- Flow 1:

Average throughput: 330.03 Mbit/s

95th percentile per-packet one-way delay: 75.898 ms

Loss rate: 0.37%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-24 13:41:31

End at: 2018-04-24 13:42:01

# Below is generated by plot.py at 2018-04-24 17:33:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 305.28 Mbit/s

95th percentile per-packet one-way delay: 52.335 ms

Loss rate: 0.42%

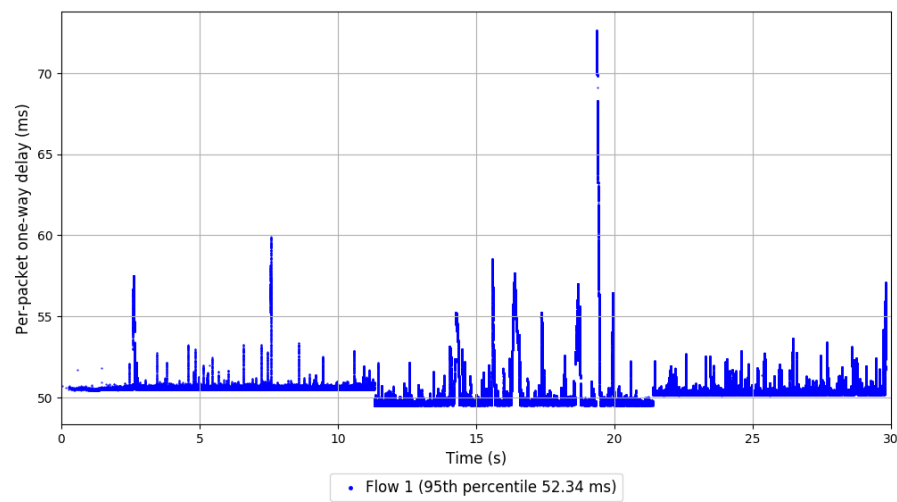
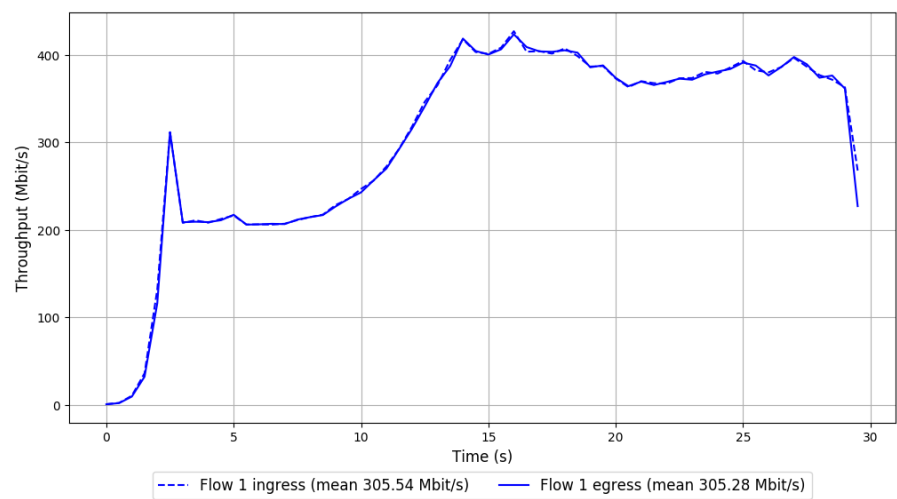
-- Flow 1:

Average throughput: 305.28 Mbit/s

95th percentile per-packet one-way delay: 52.335 ms

Loss rate: 0.42%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-24 13:54:45

End at: 2018-04-24 13:55:15

# Below is generated by plot.py at 2018-04-24 17:33:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 246.15 Mbit/s

95th percentile per-packet one-way delay: 50.668 ms

Loss rate: 0.49%

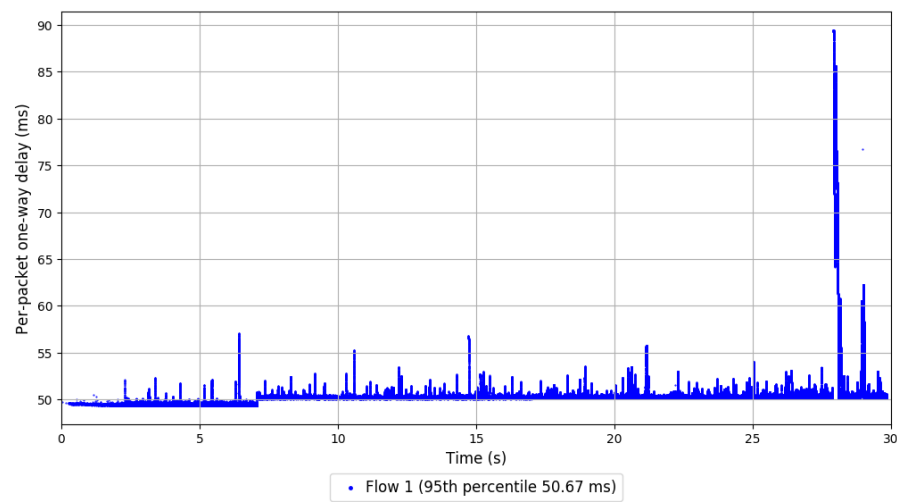
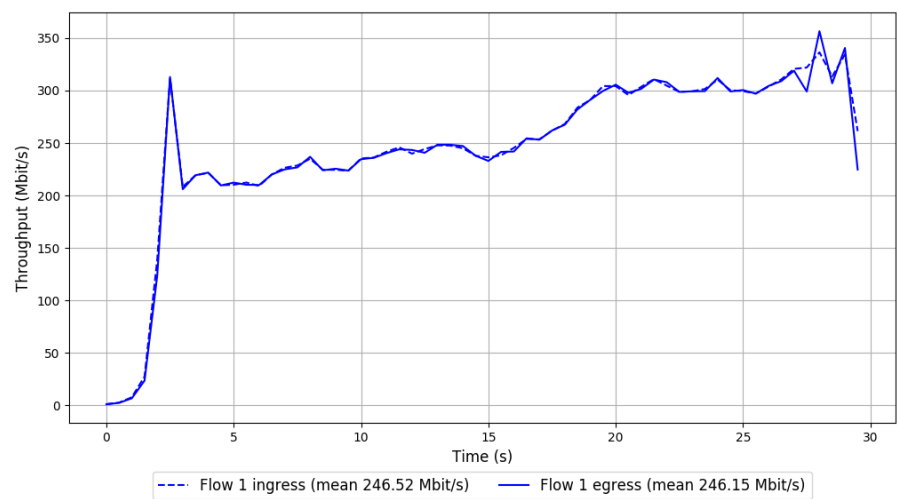
-- Flow 1:

Average throughput: 246.15 Mbit/s

95th percentile per-packet one-way delay: 50.668 ms

Loss rate: 0.49%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 11:47:01

End at: 2018-04-24 11:47:31

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 12:00:08

End at: 2018-04-24 12:00:38

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 12:13:16

End at: 2018-04-24 12:13:46

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 12:26:36

End at: 2018-04-24 12:27:06

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 12:39:47

End at: 2018-04-24 12:40:17

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 12:52:57

End at: 2018-04-24 12:53:27

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 13:06:14

End at: 2018-04-24 13:06:44

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 13:19:33

End at: 2018-04-24 13:20:03

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 13:32:45

End at: 2018-04-24 13:33:15

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 13:46:02

End at: 2018-04-24 13:46:32

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing