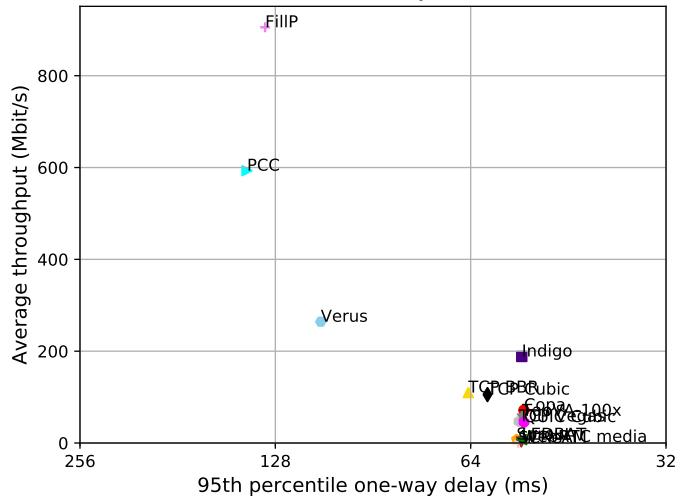


## Pantheon Report

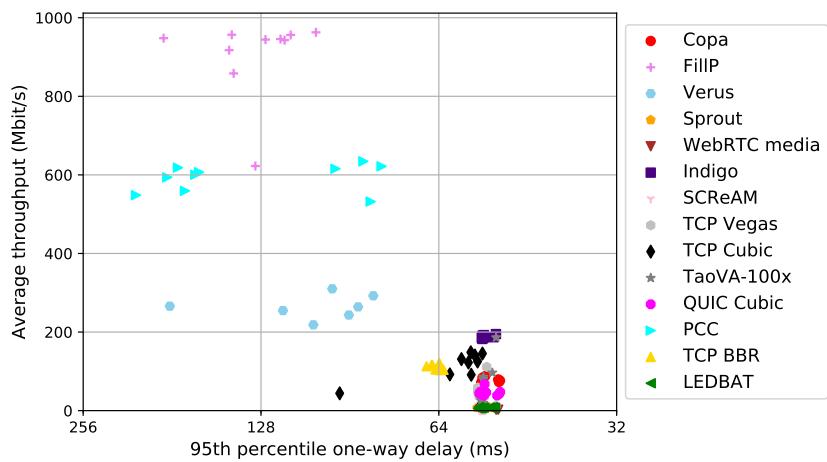
Generated at 2018-01-09 06:26:41 (UTC).  
Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).  
Repeated the test of 14 congestion control schemes 10 times.  
Each test lasted for 30 seconds running 1 flow.  
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).  
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

```
Git summary:  
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48  
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50  
  M datagrump/sender.cc  
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67  
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8  
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55  
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89  
third_party/koho_cc @ f0f2e693303aeee82ea808e6928eac4f1083a6681  
  M datagrump/sender.cc  
third_party/libutp @ b3465b942e2826f2b179aab4a906ce6bb7cf3cf  
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993  
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1  
  M receiver/src/buffer.h  
  M receiver/src/core.cpp  
  M sender/src/buffer.h  
  M sender/src/core.cpp  
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42  
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885  
third_party/sourdough @ f1a14bf7e749737437f61b1eaeeb30b267cde681  
third_party/sprout @ 6f2ef6e088d91066a9f023df375eee2665089ce  
  M src/examples/cellsim.cc  
  M src/examples/sproutbt2.cc  
  M src/network/sproutconn.cc  
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494  
  M src/verus.hpp  
  M tools/plot.py  
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



| scheme       | # runs | mean avg tput (Mbit/s)<br>flow 1 | mean 95th-%ile delay (ms)<br>flow 1 | mean loss rate (%)<br>flow 1 |
|--------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR      | 10     | 109.85                           | 64.54                               | 0.30                         |
| TCP Cubic    | 10     | 105.46                           | 60.30                               | 0.18                         |
| LEDBAT       | 10     | 7.23                             | 53.42                               | 0.49                         |
| PCC          | 10     | 593.08                           | 141.52                              | 1.12                         |
| QUIC Cubic   | 10     | 45.61                            | 52.97                               | 0.01                         |
| SCReAM       | 8      | 0.21                             | 54.08                               | 0.00                         |
| WebRTC media | 10     | 2.28                             | 53.47                               | 0.00                         |
| Sprout       | 10     | 7.73                             | 54.39                               | 0.26                         |
| TaoVA-100x   | 9      | 59.31                            | 53.32                               | 0.00                         |
| TCP Vegas    | 8      | 47.17                            | 53.96                               | 0.53                         |
| Verus        | 7      | 264.12                           | 108.94                              | 1.11                         |
| Copa         | 10     | 71.35                            | 52.98                               | 0.00                         |
| FillP        | 10     | 905.46                           | 132.72                              | 3.00                         |
| Indigo       | 10     | 188.51                           | 53.39                               | 0.06                         |

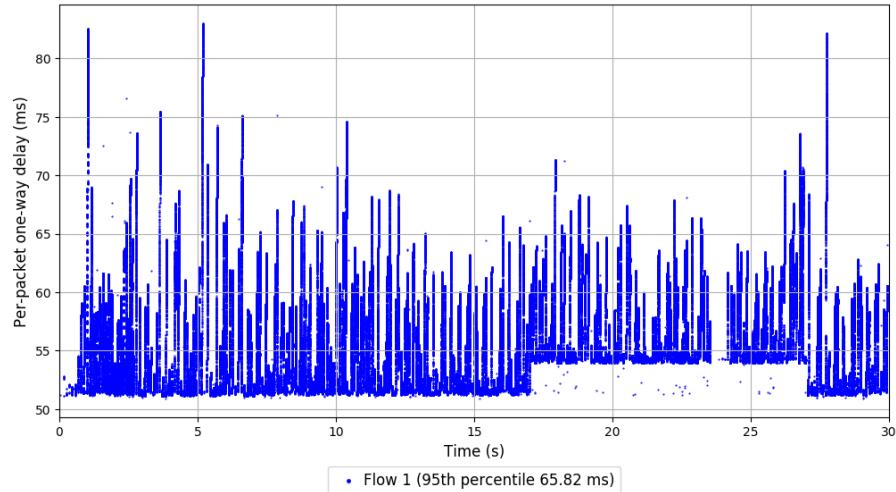
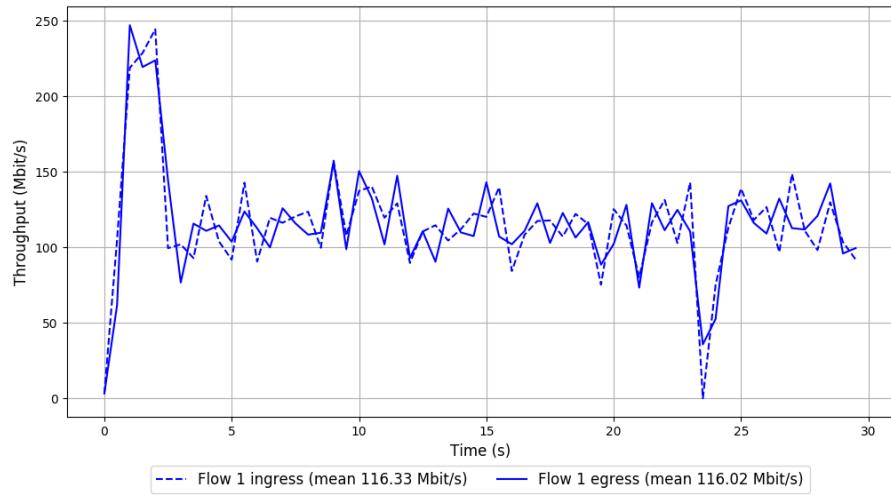
Run 1: Statistics of TCP BBR

Start at: 2018-01-09 02:47:01

End at: 2018-01-09 02:47:31

```
# Below is generated by plot.py at 2018-01-09 05:36:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 116.02 Mbit/s
95th percentile per-packet one-way delay: 65.819 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 116.02 Mbit/s
95th percentile per-packet one-way delay: 65.819 ms
Loss rate: 0.23%
```

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



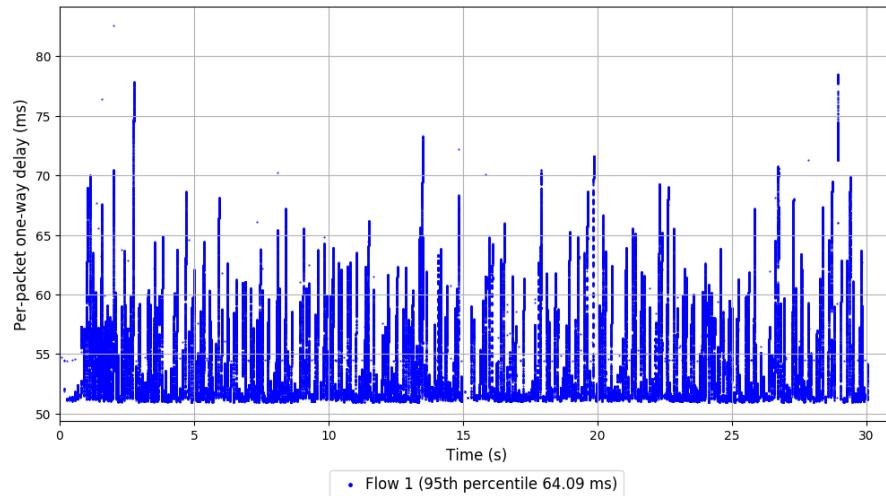
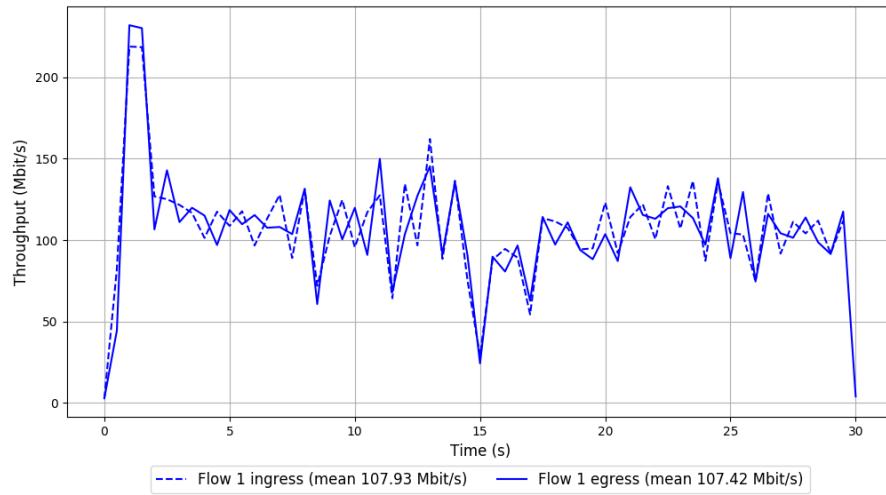
Run 2: Statistics of TCP BBR

Start at: 2018-01-09 02:58:24

End at: 2018-01-09 02:58:54

```
# Below is generated by plot.py at 2018-01-09 05:36:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.42 Mbit/s
95th percentile per-packet one-way delay: 64.086 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 107.42 Mbit/s
95th percentile per-packet one-way delay: 64.086 ms
Loss rate: 0.48%
```

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



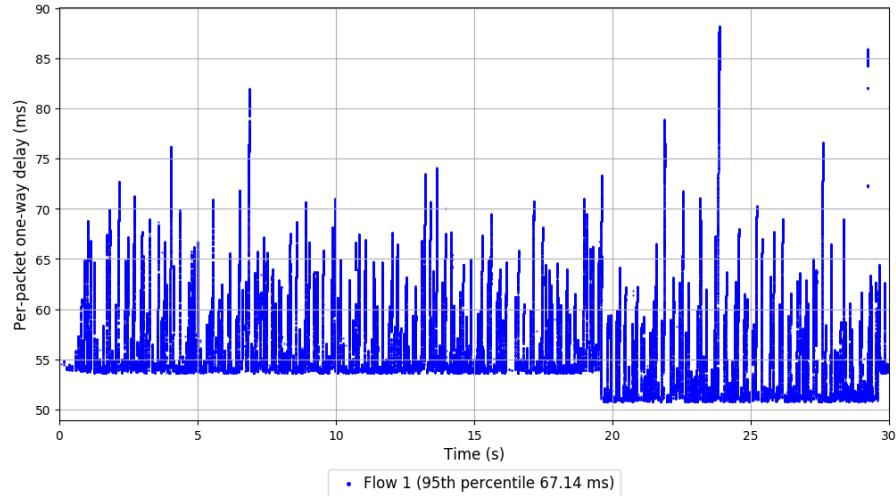
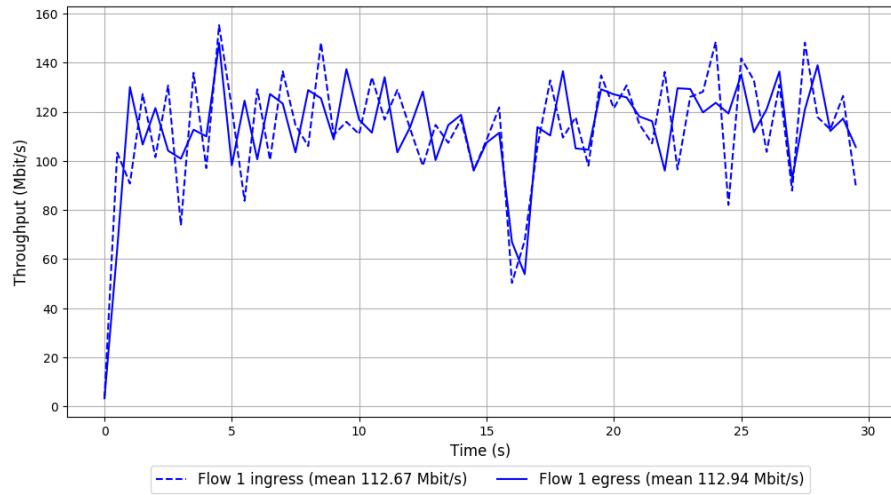
Run 3: Statistics of TCP BBR

Start at: 2018-01-09 03:09:48

End at: 2018-01-09 03:10:18

```
# Below is generated by plot.py at 2018-01-09 05:36:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 112.94 Mbit/s
95th percentile per-packet one-way delay: 67.140 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 112.94 Mbit/s
95th percentile per-packet one-way delay: 67.140 ms
Loss rate: 0.01%
```

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



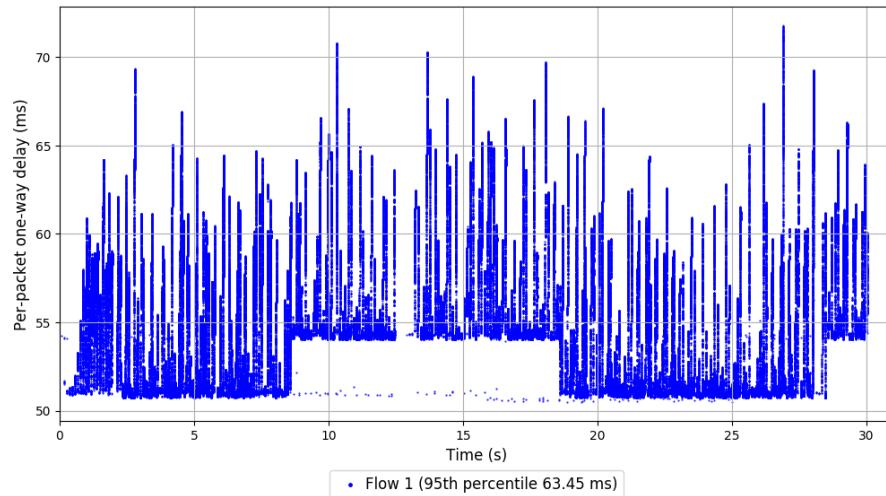
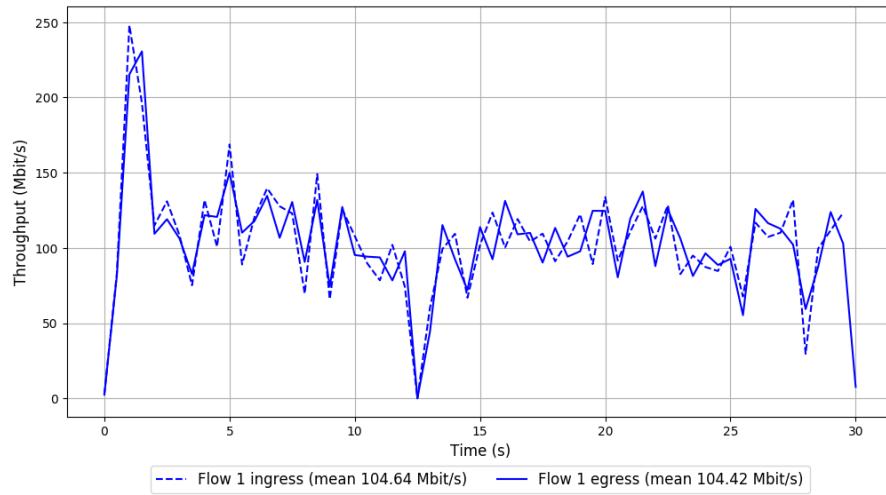
Run 4: Statistics of TCP BBR

Start at: 2018-01-09 03:21:09

End at: 2018-01-09 03:21:39

```
# Below is generated by plot.py at 2018-01-09 05:36:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 104.42 Mbit/s
95th percentile per-packet one-way delay: 63.451 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 104.42 Mbit/s
95th percentile per-packet one-way delay: 63.451 ms
Loss rate: 0.21%
```

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



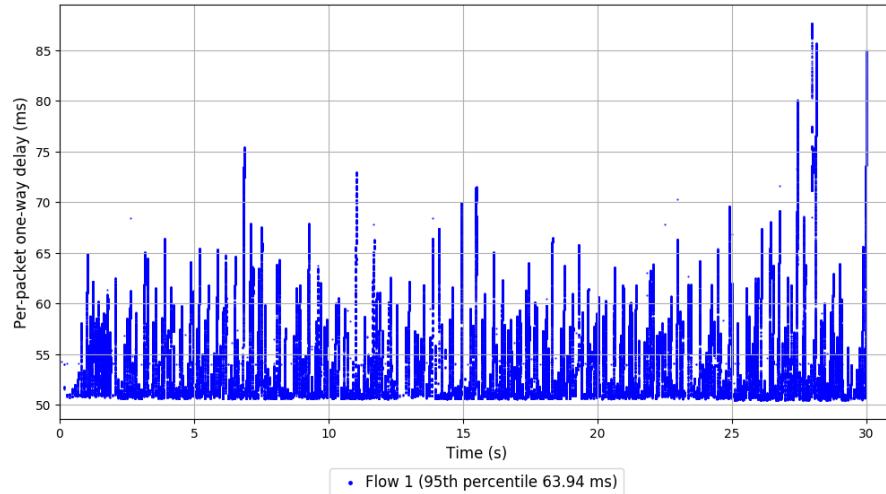
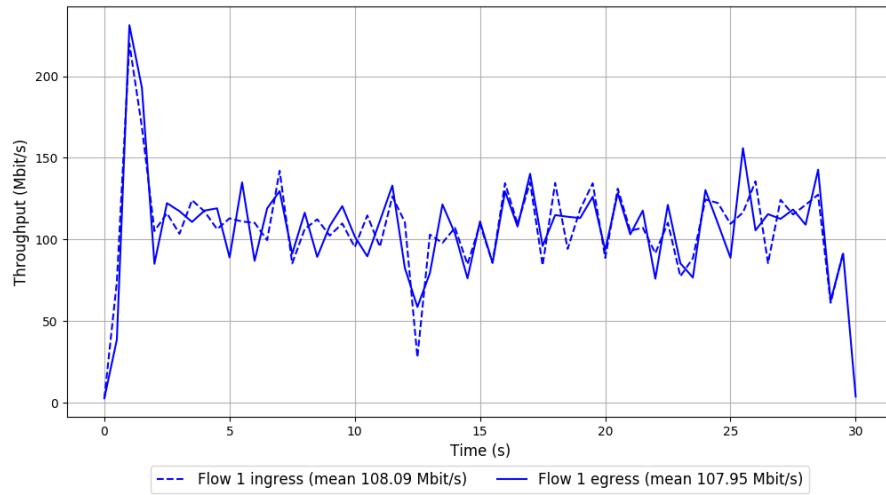
Run 5: Statistics of TCP BBR

Start at: 2018-01-09 03:32:23

End at: 2018-01-09 03:32:53

```
# Below is generated by plot.py at 2018-01-09 05:36:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.95 Mbit/s
95th percentile per-packet one-way delay: 63.938 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 107.95 Mbit/s
95th percentile per-packet one-way delay: 63.938 ms
Loss rate: 0.03%
```

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



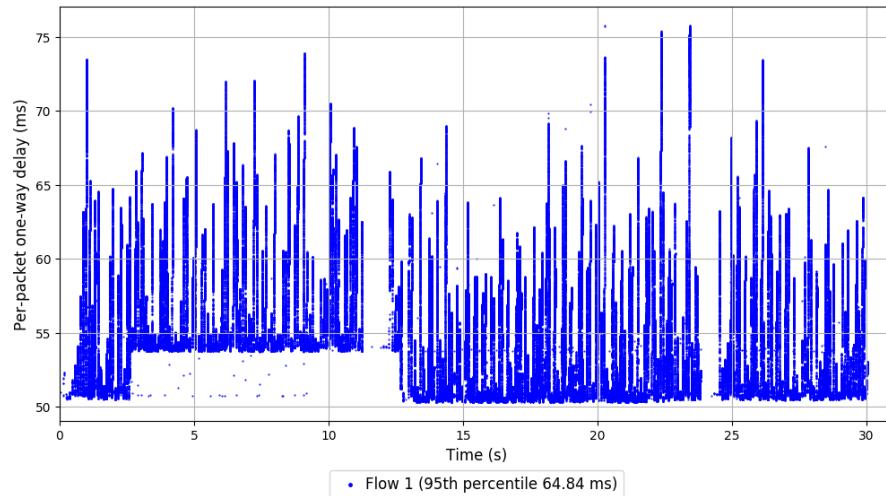
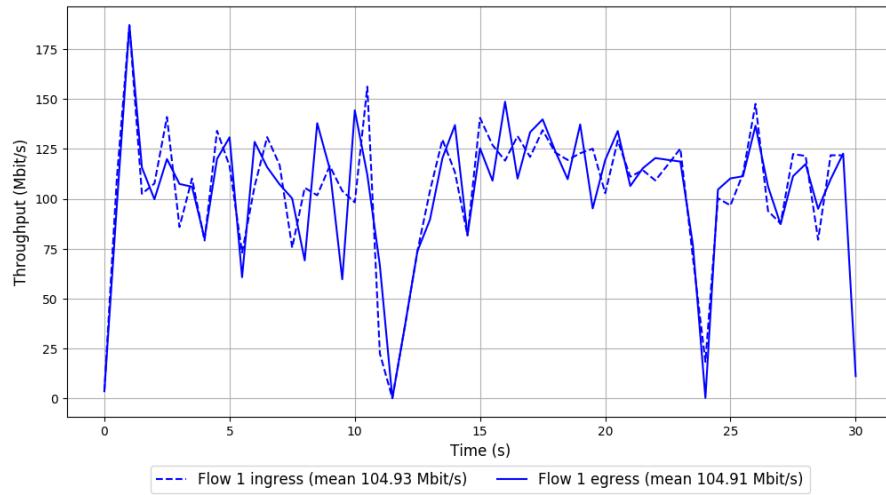
Run 6: Statistics of TCP BBR

Start at: 2018-01-09 03:43:35

End at: 2018-01-09 03:44:05

```
# Below is generated by plot.py at 2018-01-09 05:36:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 104.91 Mbit/s
95th percentile per-packet one-way delay: 64.836 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 104.91 Mbit/s
95th percentile per-packet one-way delay: 64.836 ms
Loss rate: 0.01%
```

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



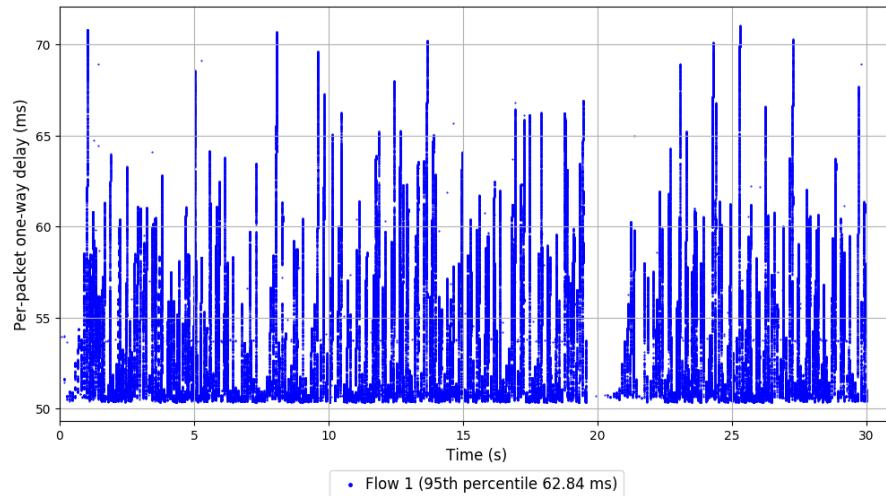
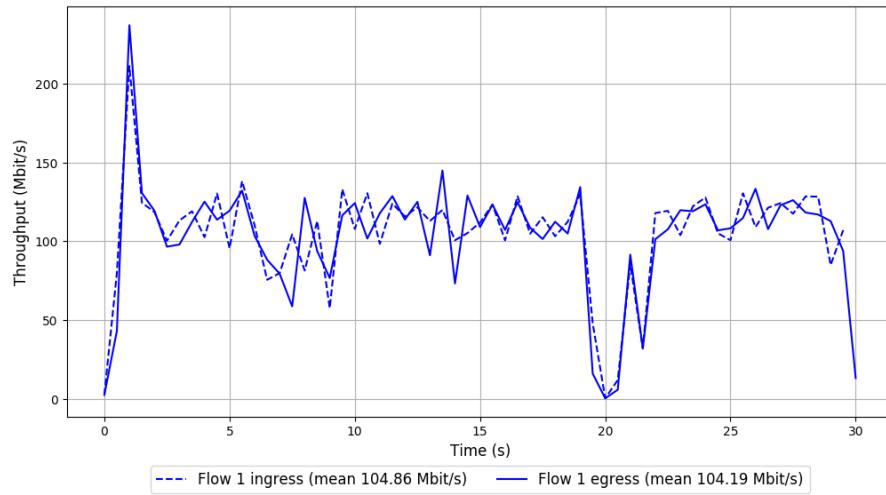
Run 7: Statistics of TCP BBR

Start at: 2018-01-09 03:54:49

End at: 2018-01-09 03:55:19

```
# Below is generated by plot.py at 2018-01-09 05:36:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 104.19 Mbit/s
95th percentile per-packet one-way delay: 62.835 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 104.19 Mbit/s
95th percentile per-packet one-way delay: 62.835 ms
Loss rate: 0.66%
```

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



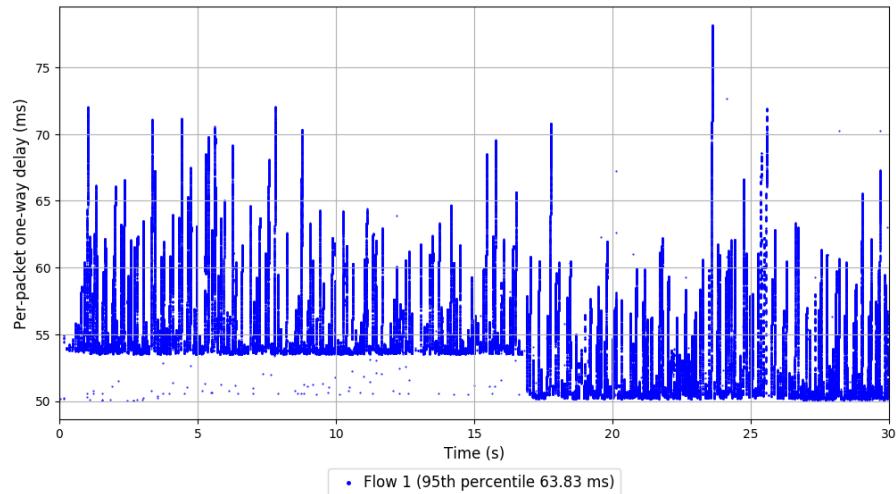
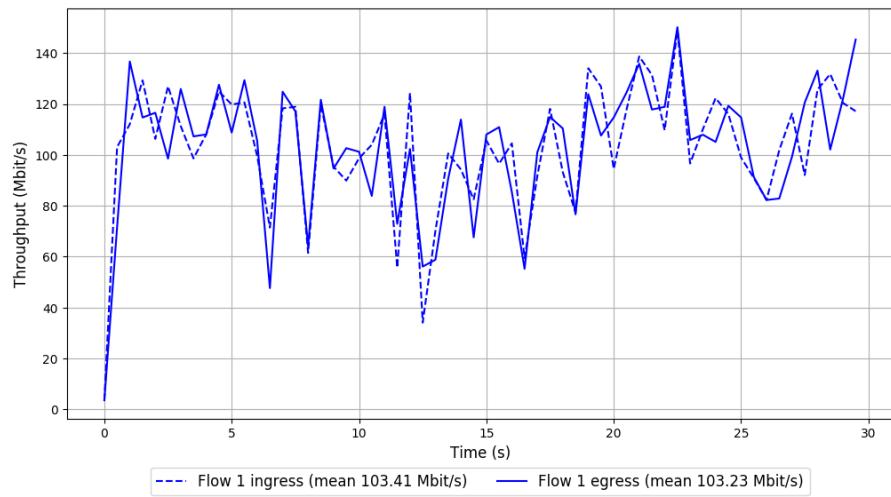
Run 8: Statistics of TCP BBR

Start at: 2018-01-09 04:06:01

End at: 2018-01-09 04:06:31

```
# Below is generated by plot.py at 2018-01-09 05:36:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 103.23 Mbit/s
95th percentile per-packet one-way delay: 63.833 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 103.23 Mbit/s
95th percentile per-packet one-way delay: 63.833 ms
Loss rate: 0.16%
```

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



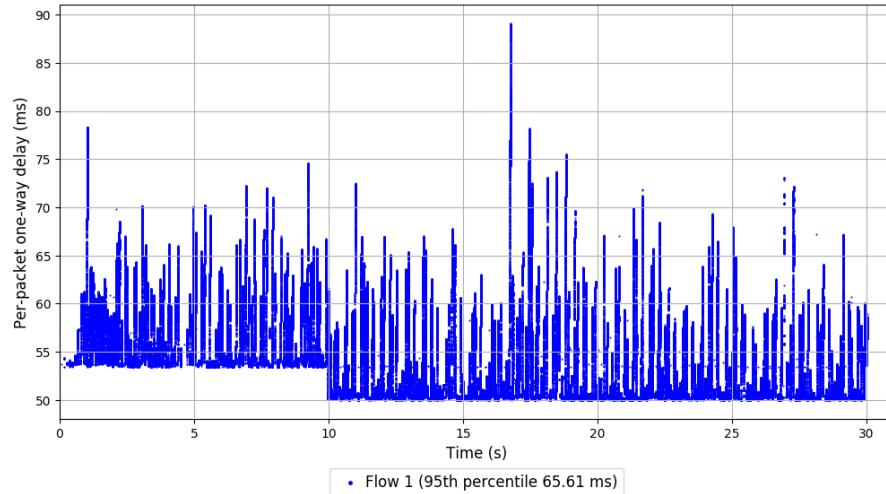
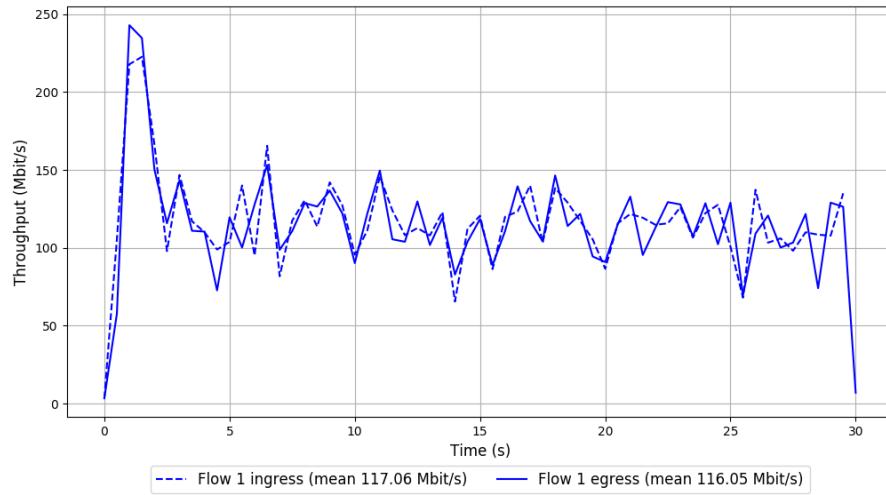
Run 9: Statistics of TCP BBR

Start at: 2018-01-09 04:17:18

End at: 2018-01-09 04:17:48

```
# Below is generated by plot.py at 2018-01-09 05:38:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 116.05 Mbit/s
95th percentile per-packet one-way delay: 65.615 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 116.05 Mbit/s
95th percentile per-packet one-way delay: 65.615 ms
Loss rate: 0.87%
```

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



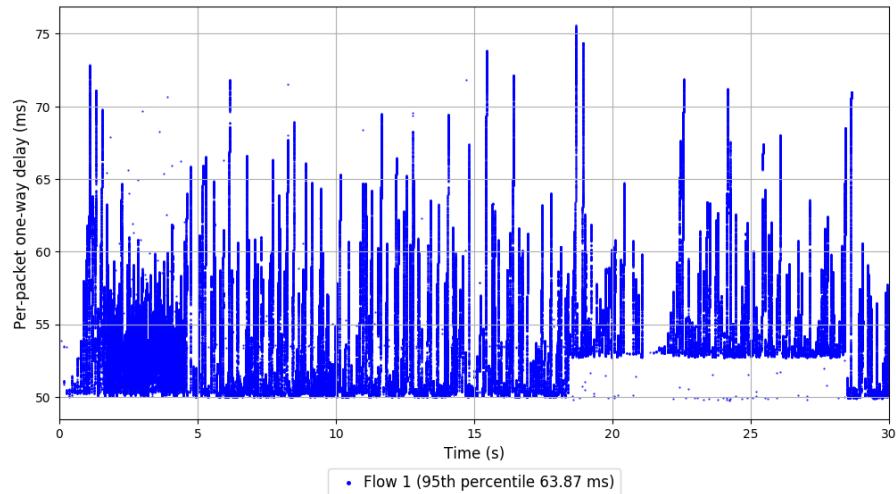
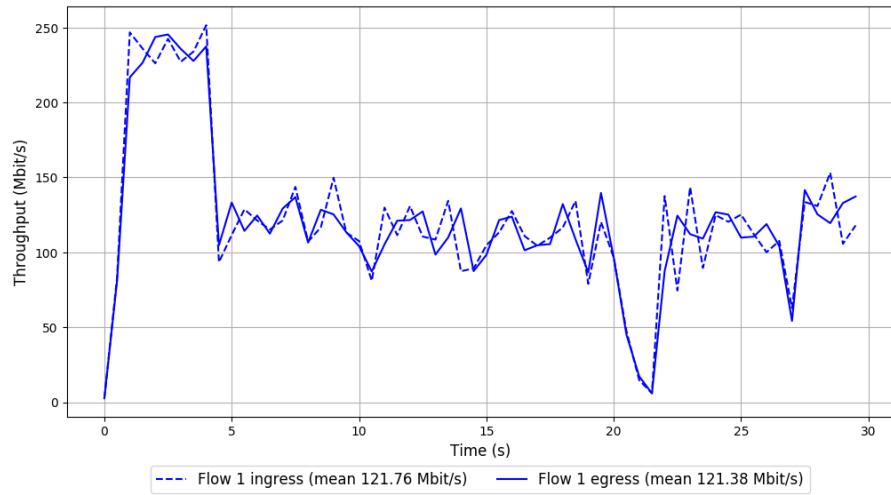
Run 10: Statistics of TCP BBR

Start at: 2018-01-09 04:28:59

End at: 2018-01-09 04:29:29

```
# Below is generated by plot.py at 2018-01-09 05:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 121.38 Mbit/s
95th percentile per-packet one-way delay: 63.872 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 121.38 Mbit/s
95th percentile per-packet one-way delay: 63.872 ms
Loss rate: 0.32%
```

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

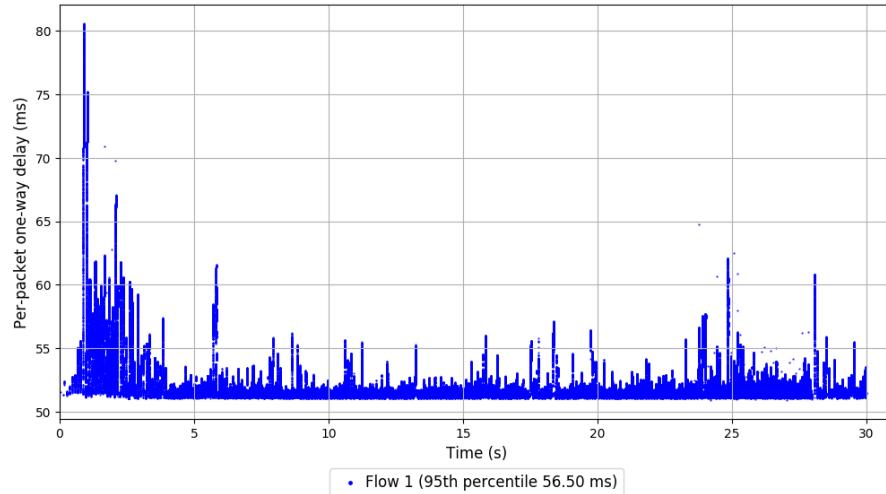
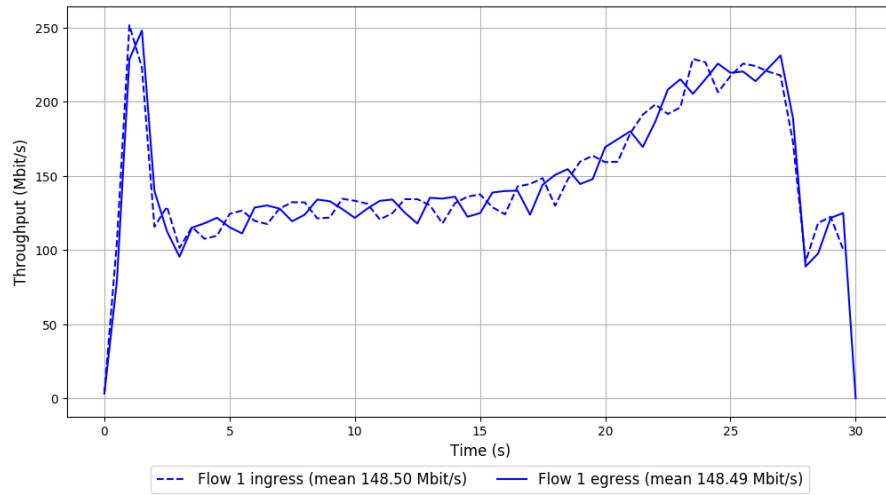


```
Run 1: Statistics of TCP Cubic

Start at: 2018-01-09 02:50:15
End at: 2018-01-09 02:50:45

# Below is generated by plot.py at 2018-01-09 05:39:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 148.49 Mbit/s
95th percentile per-packet one-way delay: 56.499 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 148.49 Mbit/s
95th percentile per-packet one-way delay: 56.499 ms
Loss rate: 0.00%
```

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



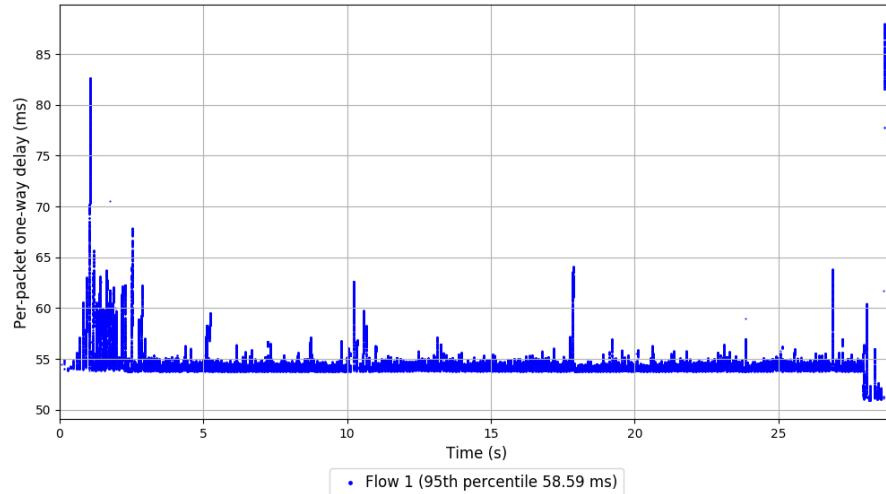
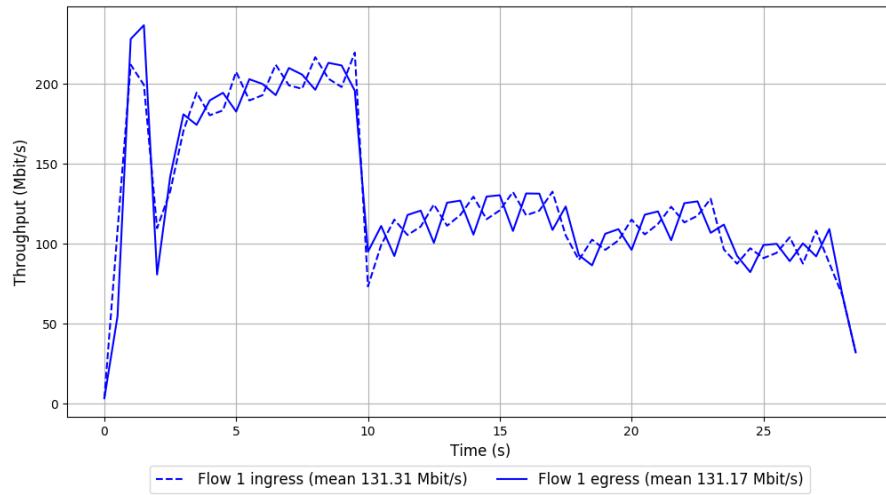
Run 2: Statistics of TCP Cubic

Start at: 2018-01-09 03:01:39

End at: 2018-01-09 03:02:09

```
# Below is generated by plot.py at 2018-01-09 05:39:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.17 Mbit/s
95th percentile per-packet one-way delay: 58.595 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 131.17 Mbit/s
95th percentile per-packet one-way delay: 58.595 ms
Loss rate: 0.01%
```

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



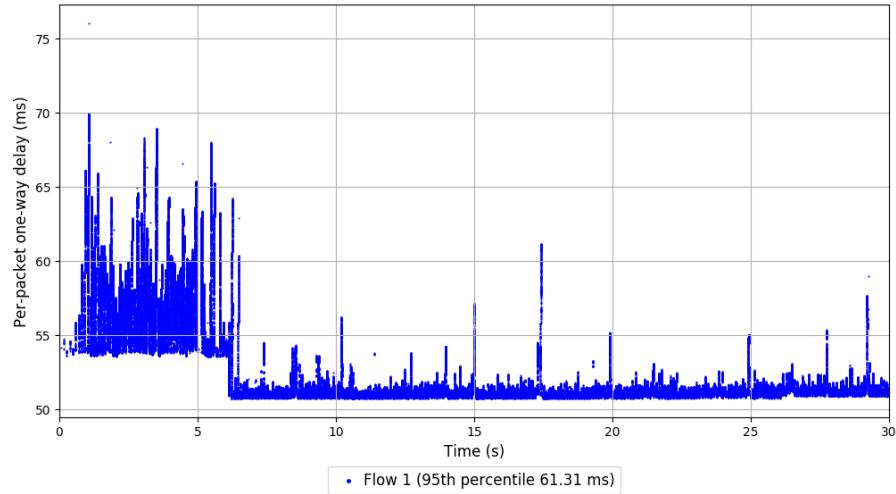
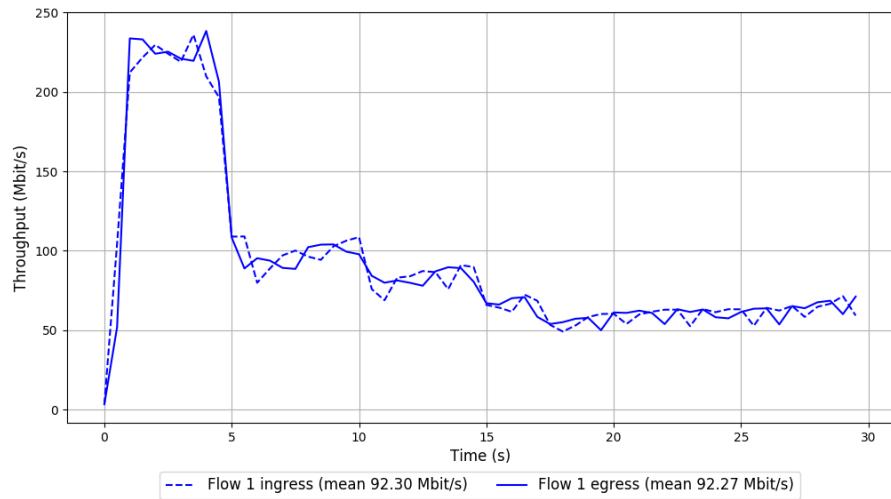
Run 3: Statistics of TCP Cubic

Start at: 2018-01-09 03:13:02

End at: 2018-01-09 03:13:32

```
# Below is generated by plot.py at 2018-01-09 05:39:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.27 Mbit/s
95th percentile per-packet one-way delay: 61.312 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 92.27 Mbit/s
95th percentile per-packet one-way delay: 61.312 ms
Loss rate: 0.04%
```

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



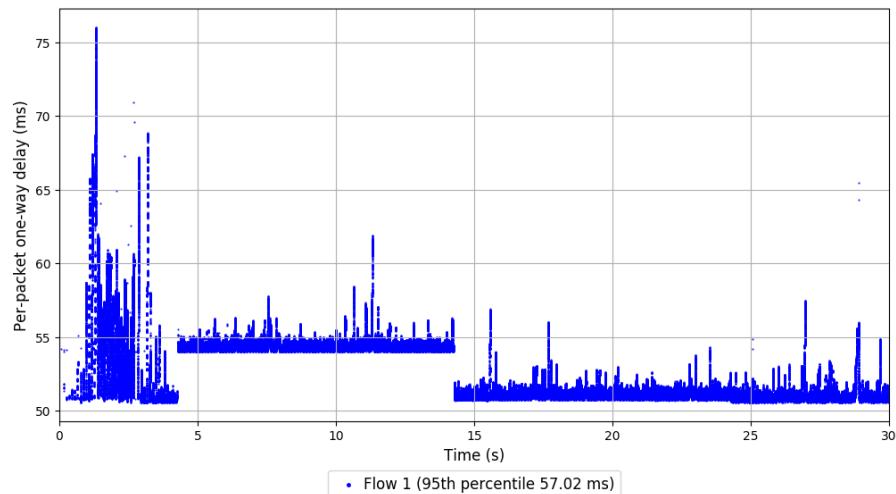
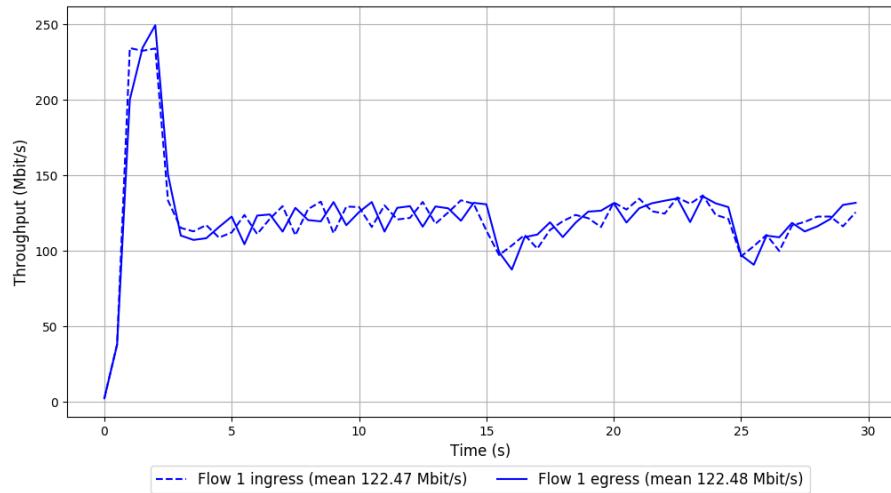
Run 4: Statistics of TCP Cubic

Start at: 2018-01-09 03:24:24

End at: 2018-01-09 03:24:54

```
# Below is generated by plot.py at 2018-01-09 05:39:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 122.48 Mbit/s
95th percentile per-packet one-way delay: 57.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 122.48 Mbit/s
95th percentile per-packet one-way delay: 57.021 ms
Loss rate: 0.00%
```

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



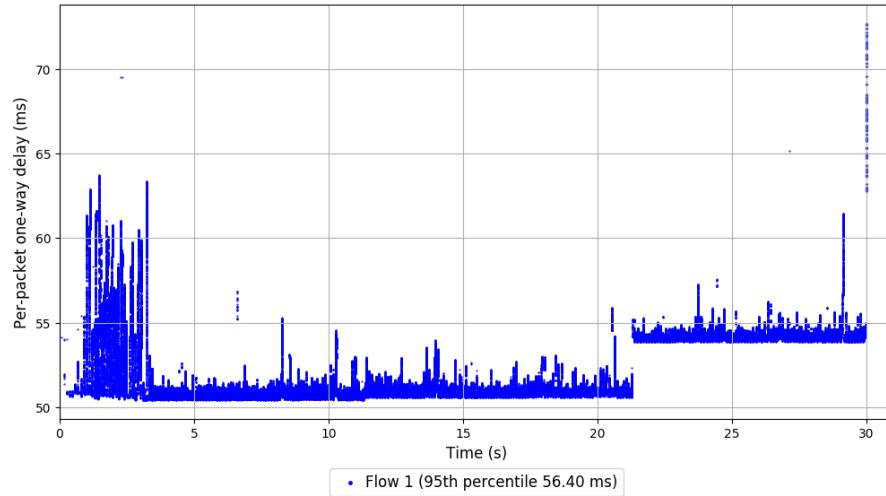
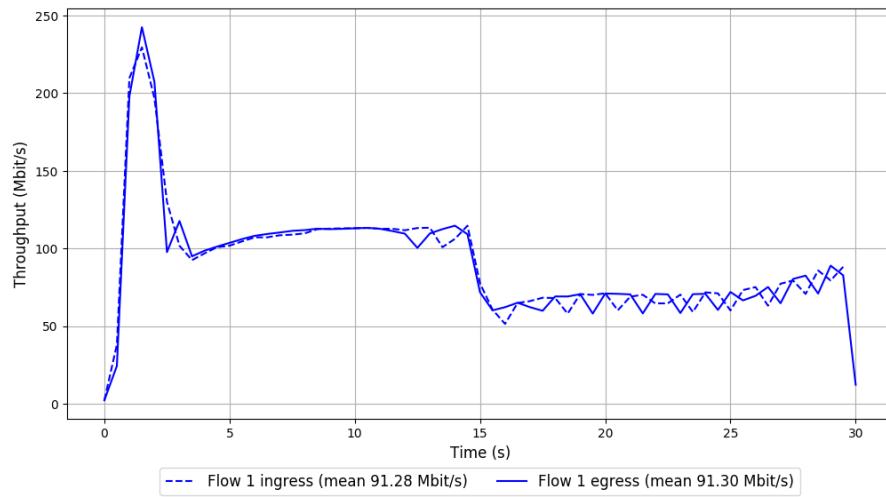
Run 5: Statistics of TCP Cubic

Start at: 2018-01-09 03:35:36

End at: 2018-01-09 03:36:07

```
# Below is generated by plot.py at 2018-01-09 05:39:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: 56.397 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: 56.397 ms
Loss rate: 0.03%
```

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



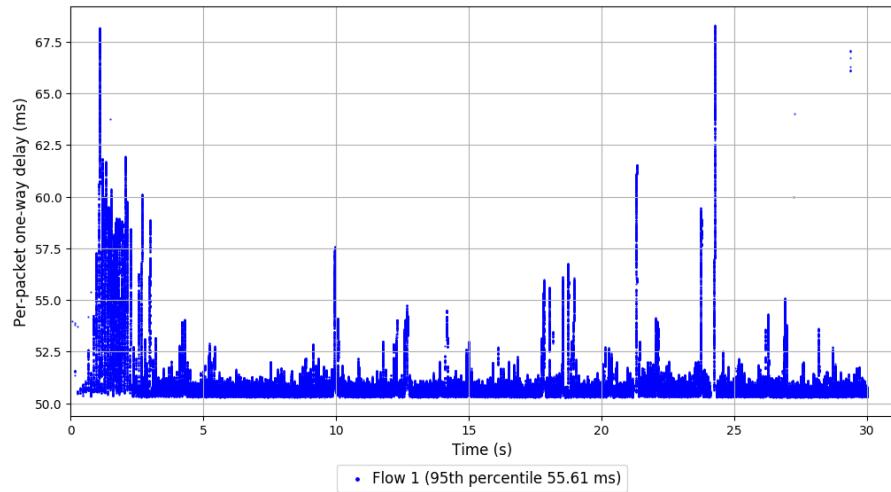
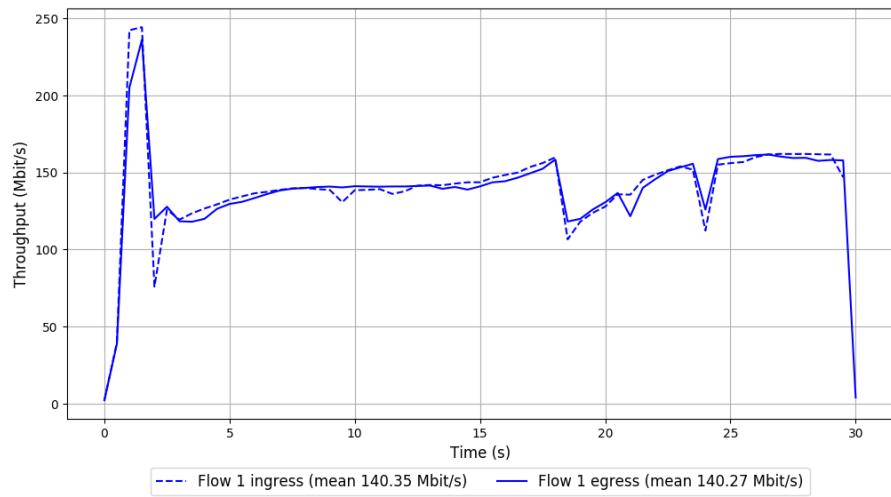
Run 6: Statistics of TCP Cubic

Start at: 2018-01-09 03:46:47

End at: 2018-01-09 03:47:17

```
# Below is generated by plot.py at 2018-01-09 05:39:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 140.27 Mbit/s
95th percentile per-packet one-way delay: 55.612 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 140.27 Mbit/s
95th percentile per-packet one-way delay: 55.612 ms
Loss rate: 0.07%
```

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



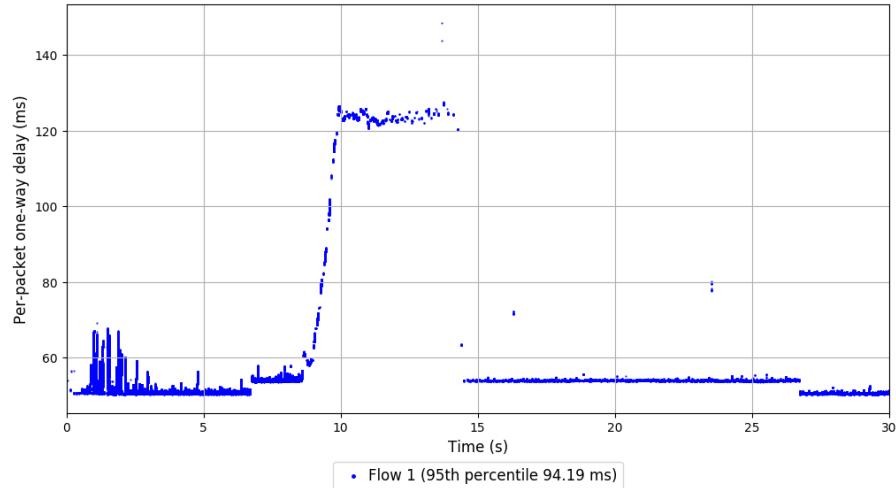
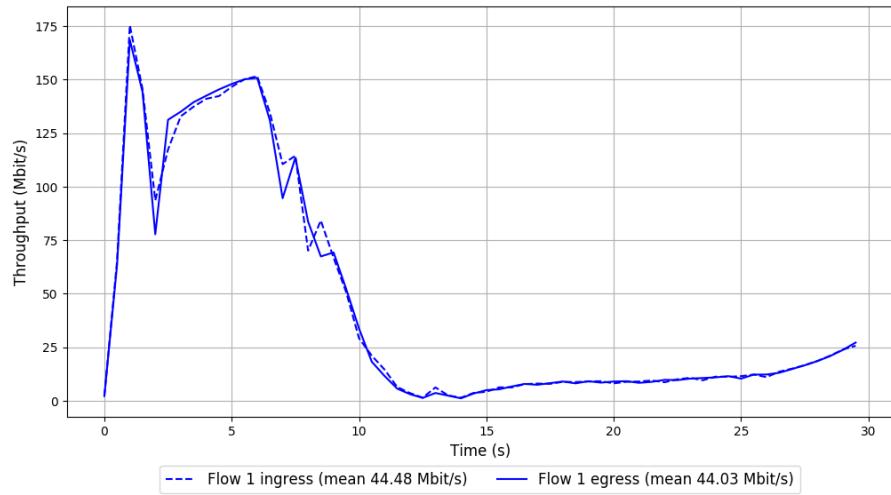
Run 7: Statistics of TCP Cubic

Start at: 2018-01-09 03:57:51

End at: 2018-01-09 03:58:21

```
# Below is generated by plot.py at 2018-01-09 05:39:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.03 Mbit/s
95th percentile per-packet one-way delay: 94.191 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 44.03 Mbit/s
95th percentile per-packet one-way delay: 94.191 ms
Loss rate: 1.03%
```

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



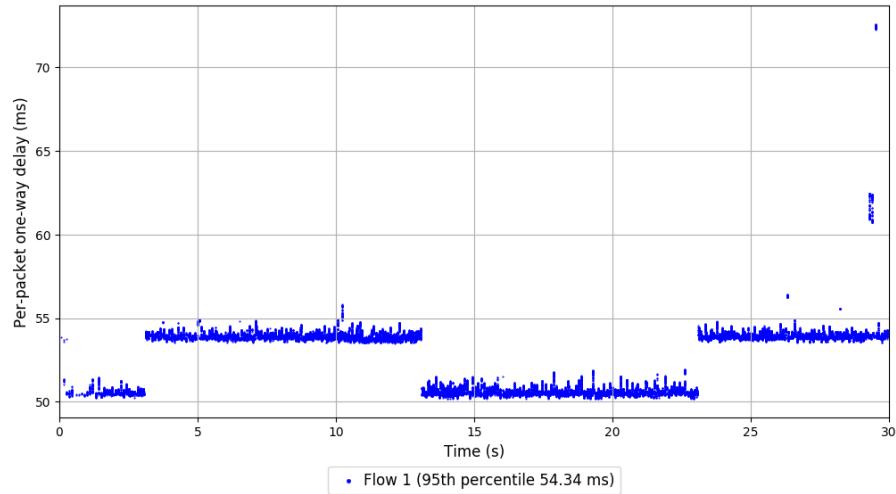
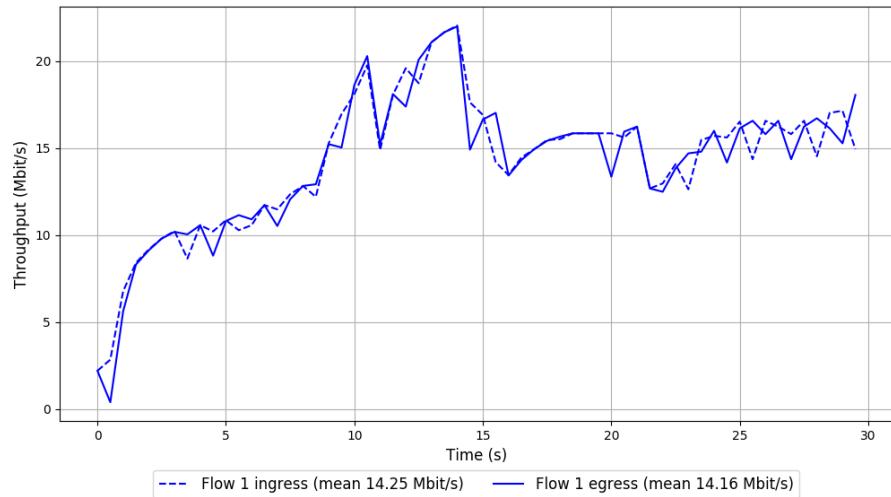
Run 8: Statistics of TCP Cubic

Start at: 2018-01-09 04:09:15

End at: 2018-01-09 04:09:45

```
# Below is generated by plot.py at 2018-01-09 05:39:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.16 Mbit/s
95th percentile per-packet one-way delay: 54.341 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 14.16 Mbit/s
95th percentile per-packet one-way delay: 54.341 ms
Loss rate: 0.62%
```

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



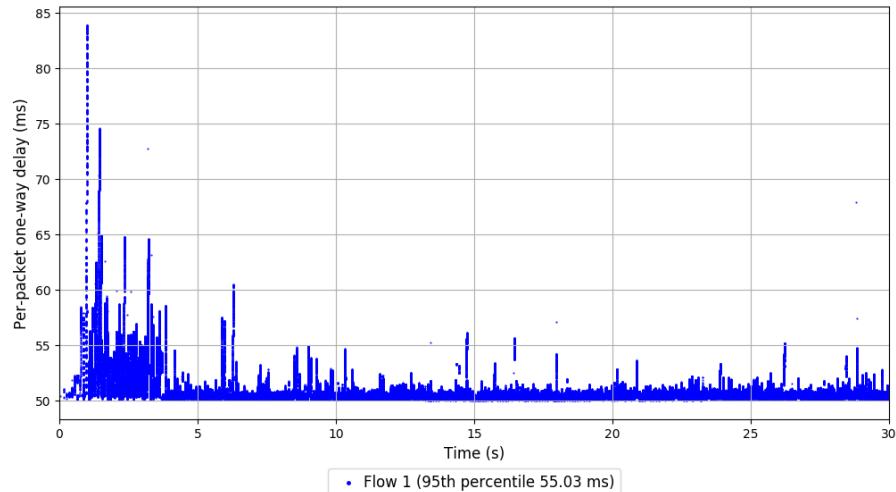
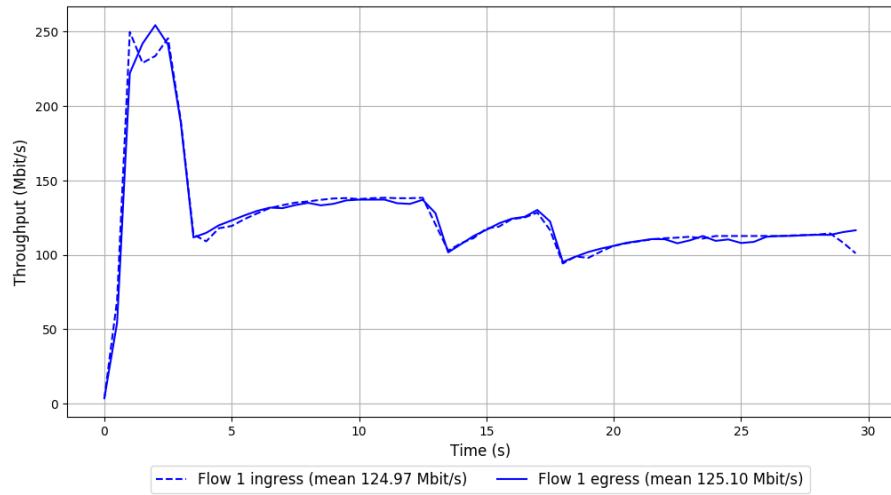
Run 9: Statistics of TCP Cubic

Start at: 2018-01-09 04:20:35

End at: 2018-01-09 04:21:05

```
# Below is generated by plot.py at 2018-01-09 05:40:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.10 Mbit/s
95th percentile per-packet one-way delay: 55.029 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 125.10 Mbit/s
95th percentile per-packet one-way delay: 55.029 ms
Loss rate: 0.00%
```

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



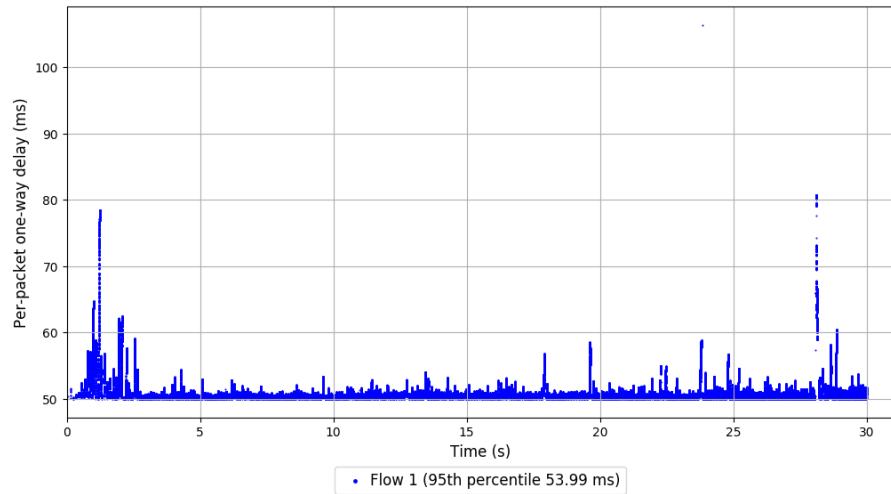
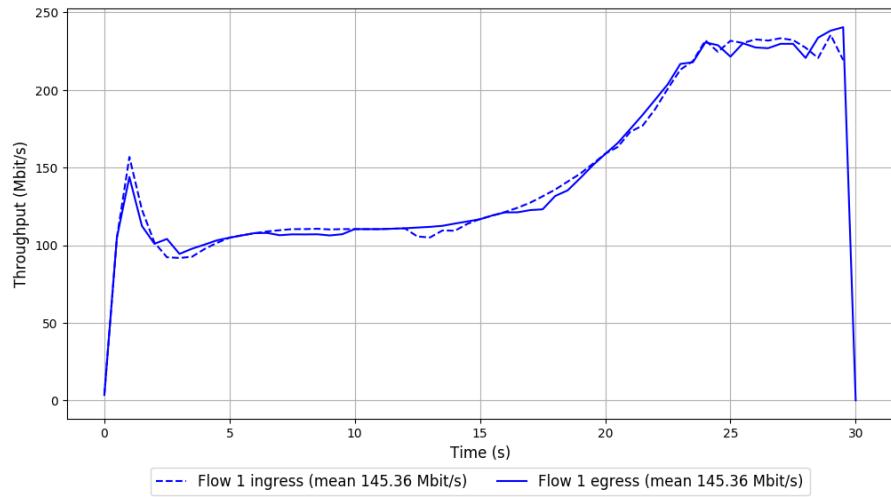
Run 10: Statistics of TCP Cubic

Start at: 2018-01-09 04:32:15

End at: 2018-01-09 04:32:45

```
# Below is generated by plot.py at 2018-01-09 05:40:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.36 Mbit/s
95th percentile per-packet one-way delay: 53.990 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 145.36 Mbit/s
95th percentile per-packet one-way delay: 53.990 ms
Loss rate: 0.00%
```

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

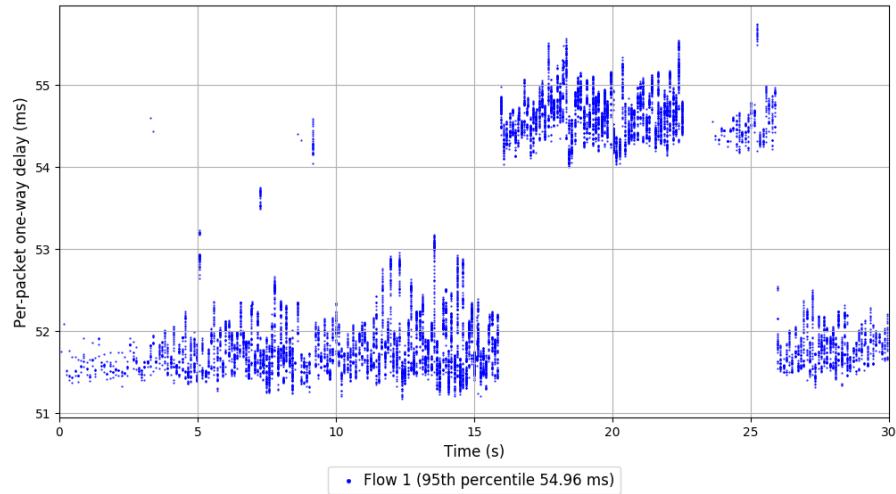
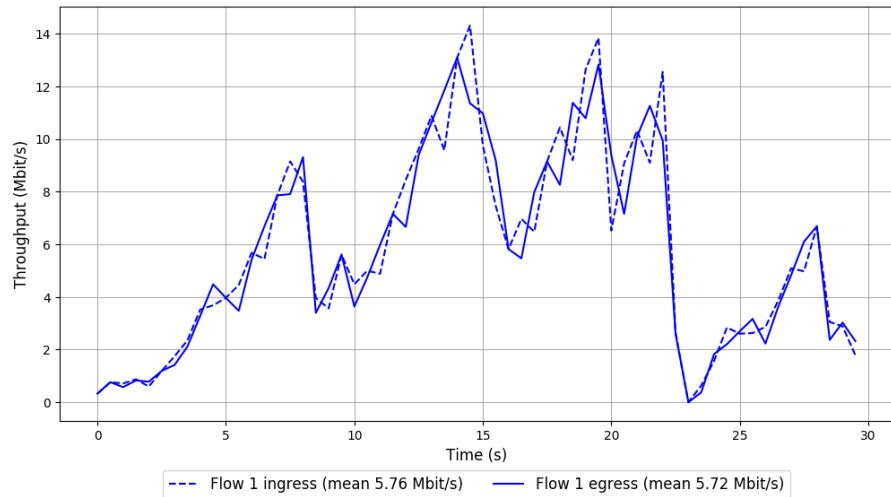


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-09 02:43:12
End at: 2018-01-09 02:43:42

# Below is generated by plot.py at 2018-01-09 05:40:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.72 Mbit/s
95th percentile per-packet one-way delay: 54.961 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 5.72 Mbit/s
95th percentile per-packet one-way delay: 54.961 ms
Loss rate: 0.80%
```

Run 1: Report of LEDBAT — Data Link



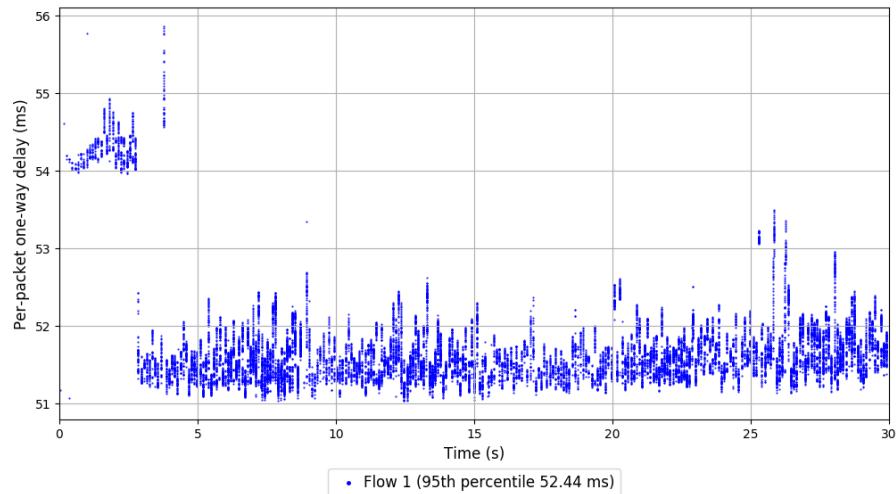
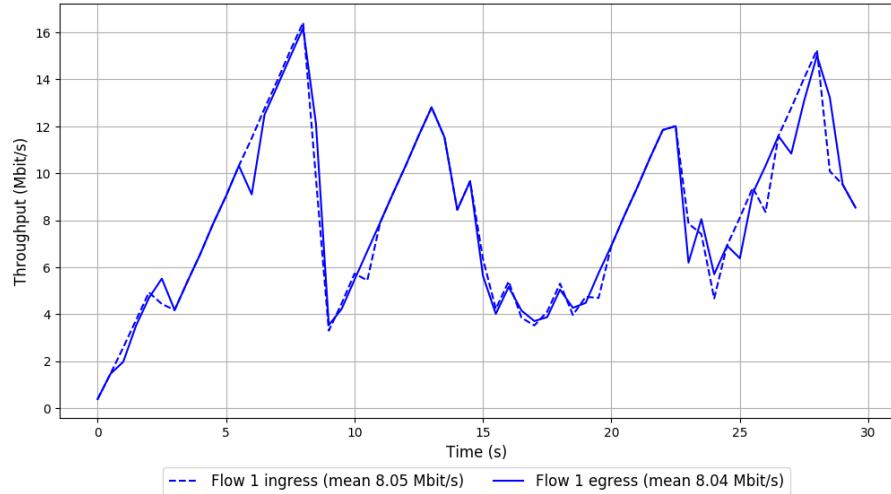
Run 2: Statistics of LEDBAT

Start at: 2018-01-09 02:54:35

End at: 2018-01-09 02:55:05

```
# Below is generated by plot.py at 2018-01-09 05:40:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 52.443 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 52.443 ms
Loss rate: 0.02%
```

## Run 2: Report of LEDBAT — Data Link



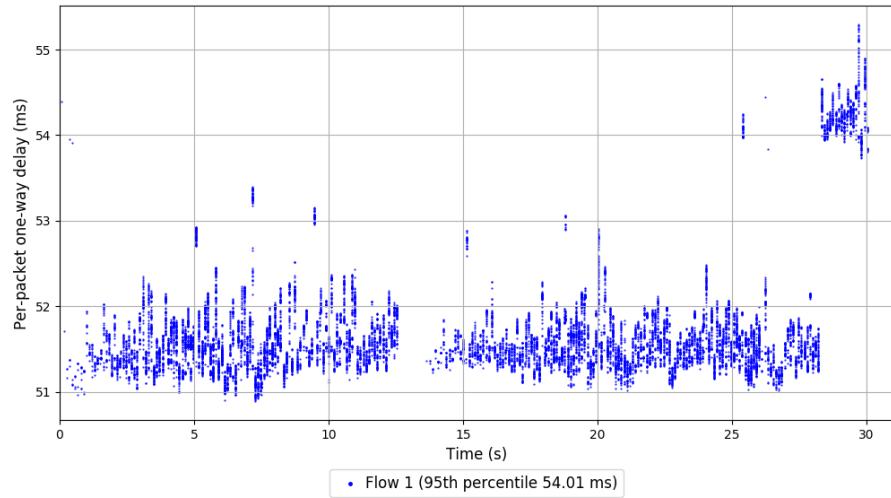
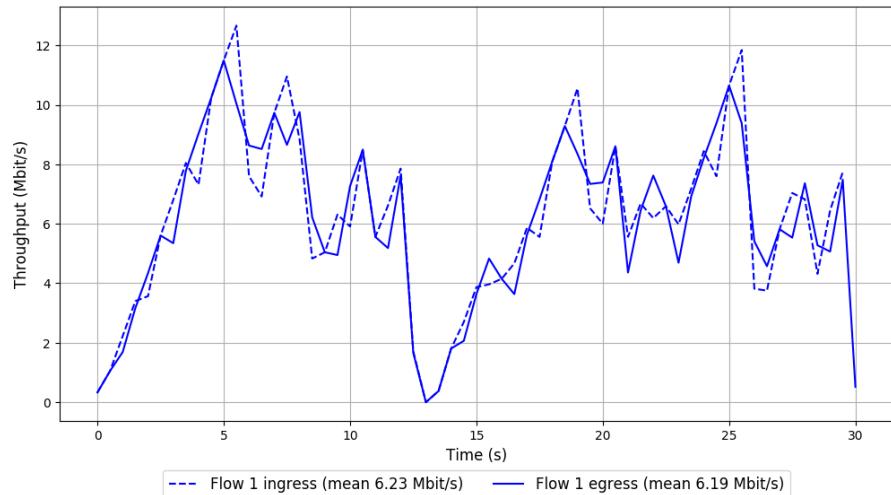
Run 3: Statistics of LEDBAT

Start at: 2018-01-09 03:06:00

End at: 2018-01-09 03:06:30

```
# Below is generated by plot.py at 2018-01-09 05:40:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.19 Mbit/s
95th percentile per-packet one-way delay: 54.010 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 6.19 Mbit/s
95th percentile per-packet one-way delay: 54.010 ms
Loss rate: 0.77%
```

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



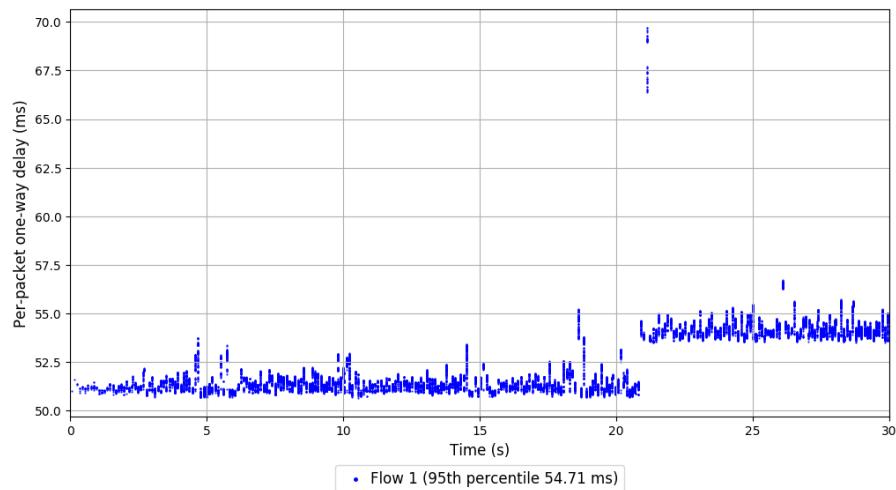
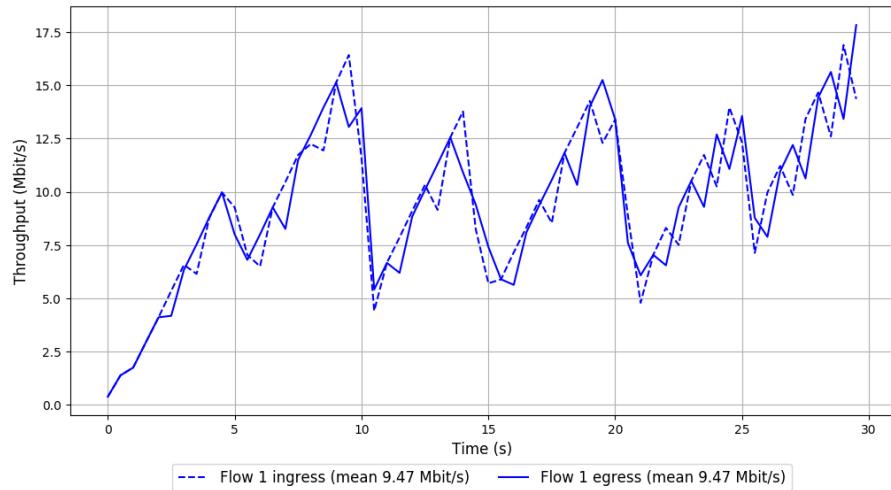
Run 4: Statistics of LEDBAT

Start at: 2018-01-09 03:17:17

End at: 2018-01-09 03:17:47

```
# Below is generated by plot.py at 2018-01-09 05:40:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 54.713 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 54.713 ms
Loss rate: 0.01%
```

## Run 4: Report of LEDBAT — Data Link



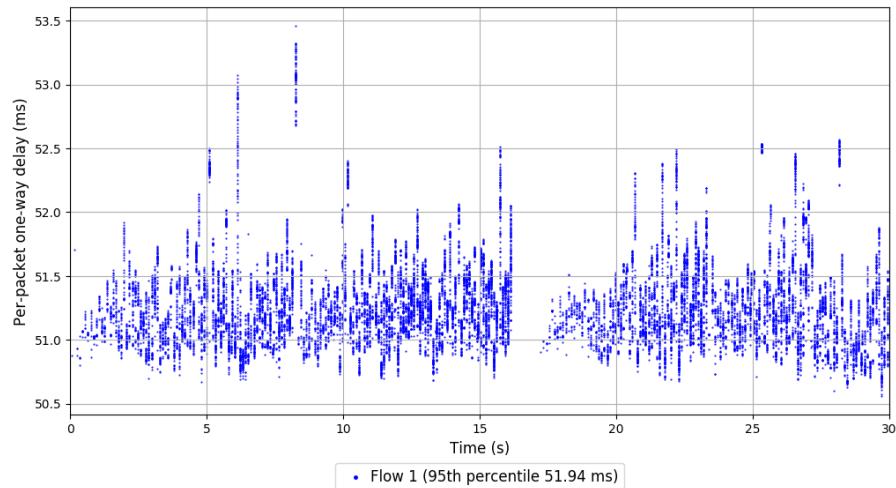
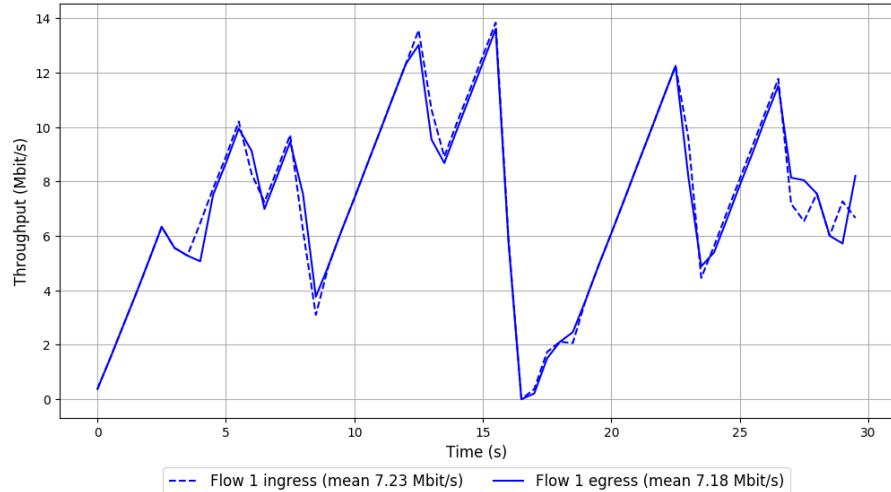
Run 5: Statistics of LEDBAT

Start at: 2018-01-09 03:28:41

End at: 2018-01-09 03:29:11

```
# Below is generated by plot.py at 2018-01-09 05:40:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 51.936 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 51.936 ms
Loss rate: 0.70%
```

Run 5: Report of LEDBAT — Data Link



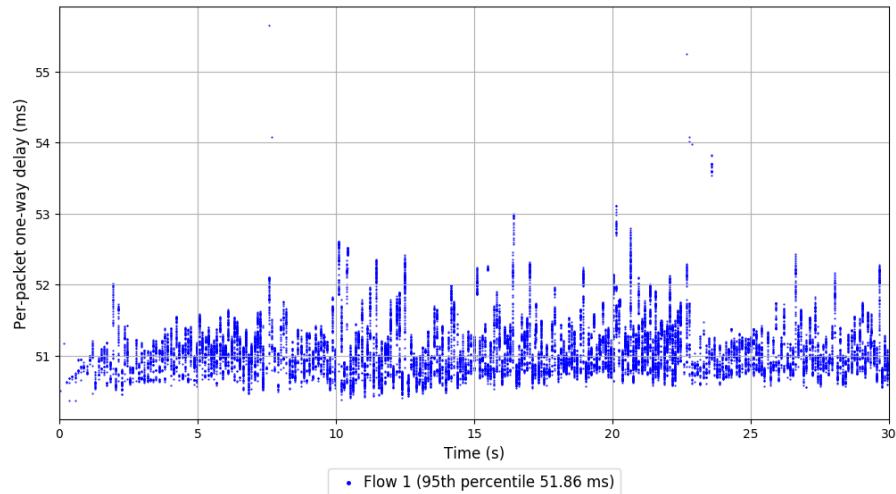
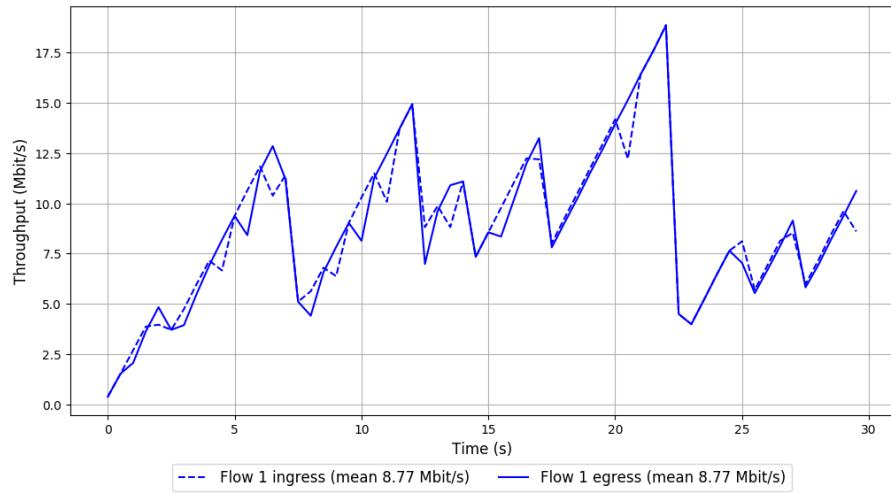
Run 6: Statistics of LEDBAT

Start at: 2018-01-09 03:39:53

End at: 2018-01-09 03:40:23

```
# Below is generated by plot.py at 2018-01-09 05:40:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 51.860 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 51.860 ms
Loss rate: 0.04%
```

Run 6: Report of LEDBAT — Data Link



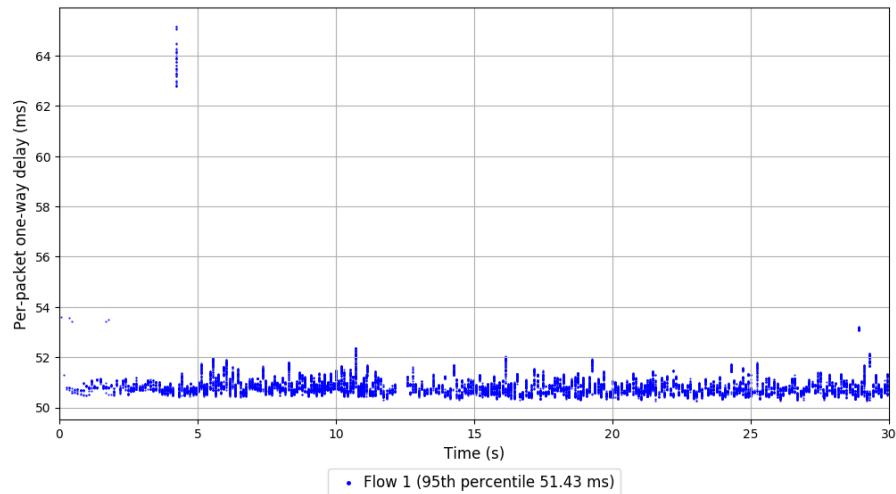
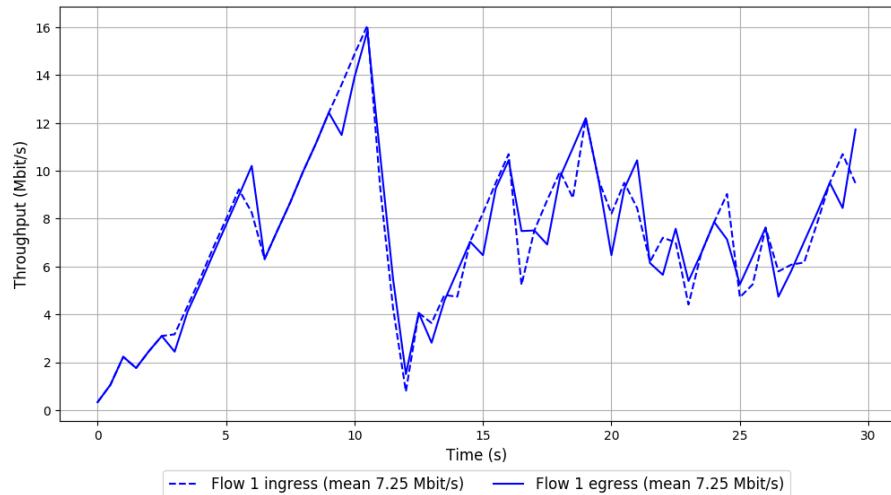
Run 7: Statistics of LEDBAT

Start at: 2018-01-09 03:50:56

End at: 2018-01-09 03:51:26

```
# Below is generated by plot.py at 2018-01-09 05:40:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.25 Mbit/s
95th percentile per-packet one-way delay: 51.431 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 7.25 Mbit/s
95th percentile per-packet one-way delay: 51.431 ms
Loss rate: 0.05%
```

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



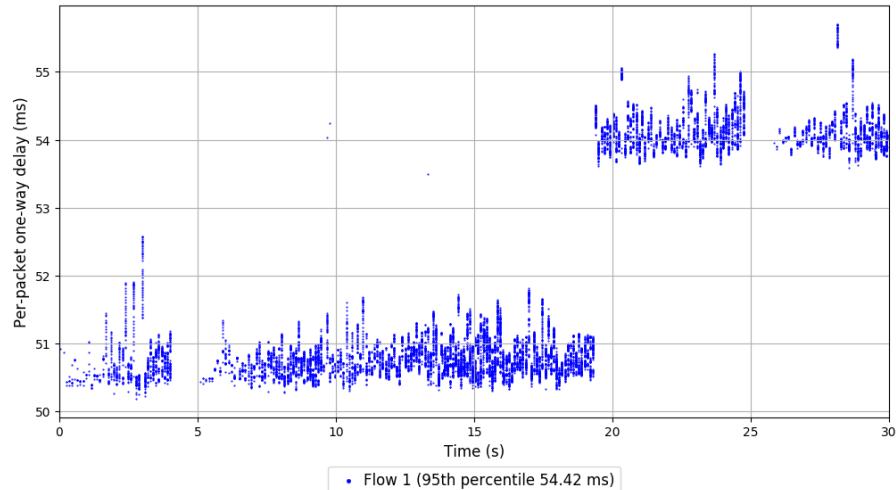
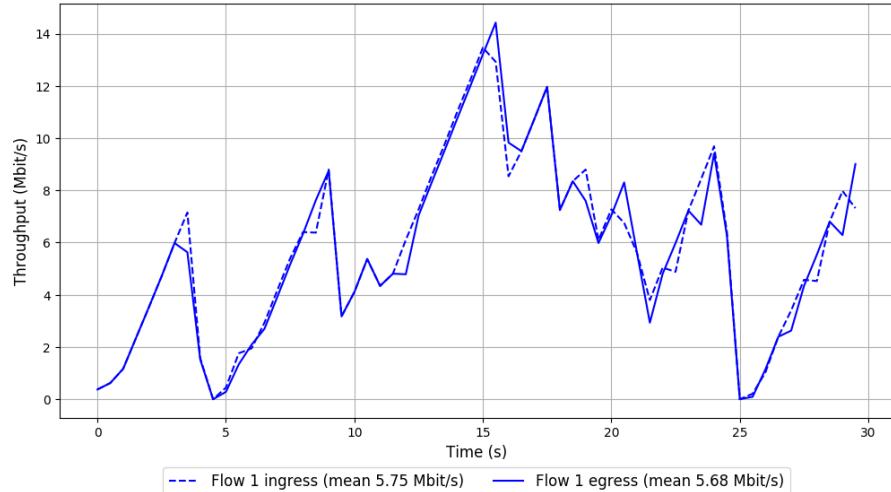
Run 8: Statistics of LEDBAT

Start at: 2018-01-09 04:02:08

End at: 2018-01-09 04:02:38

```
# Below is generated by plot.py at 2018-01-09 05:40:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.68 Mbit/s
95th percentile per-packet one-way delay: 54.418 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 5.68 Mbit/s
95th percentile per-packet one-way delay: 54.418 ms
Loss rate: 1.11%
```

## Run 8: Report of LEDBAT — Data Link



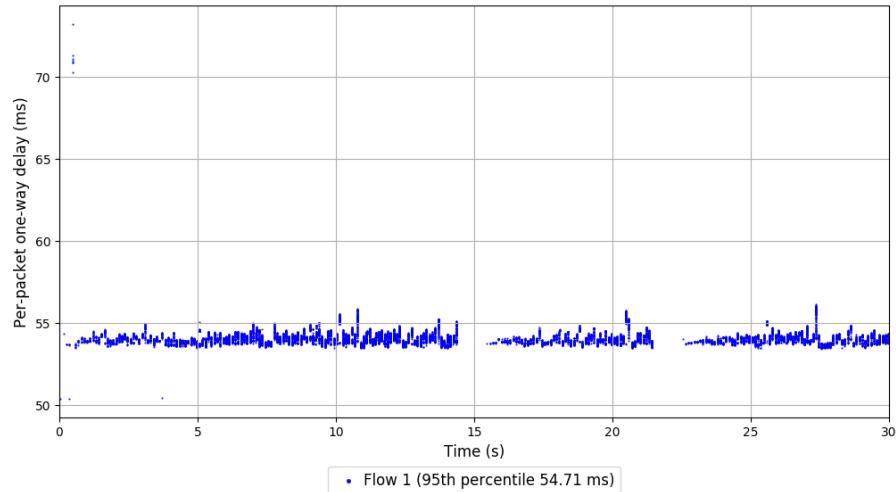
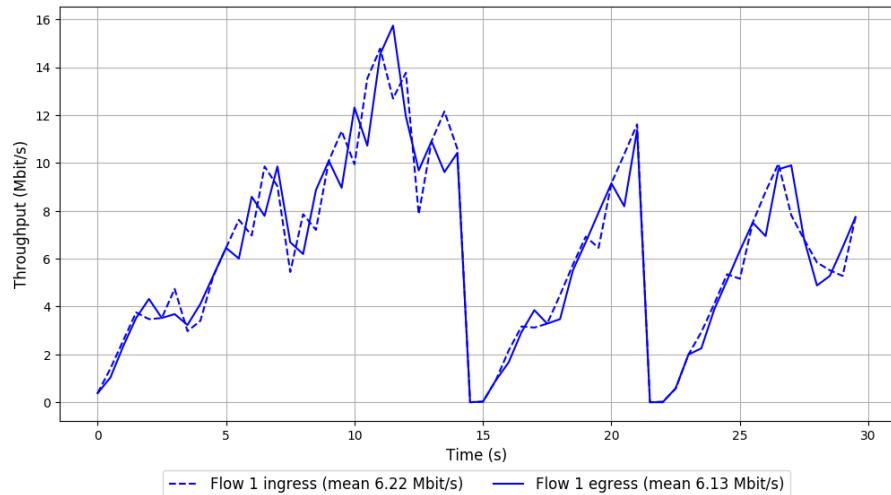
Run 9: Statistics of LEDBAT

Start at: 2018-01-09 04:13:24

End at: 2018-01-09 04:13:54

```
# Below is generated by plot.py at 2018-01-09 05:40:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 54.713 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 54.713 ms
Loss rate: 1.40%
```

## Run 9: Report of LEDBAT — Data Link



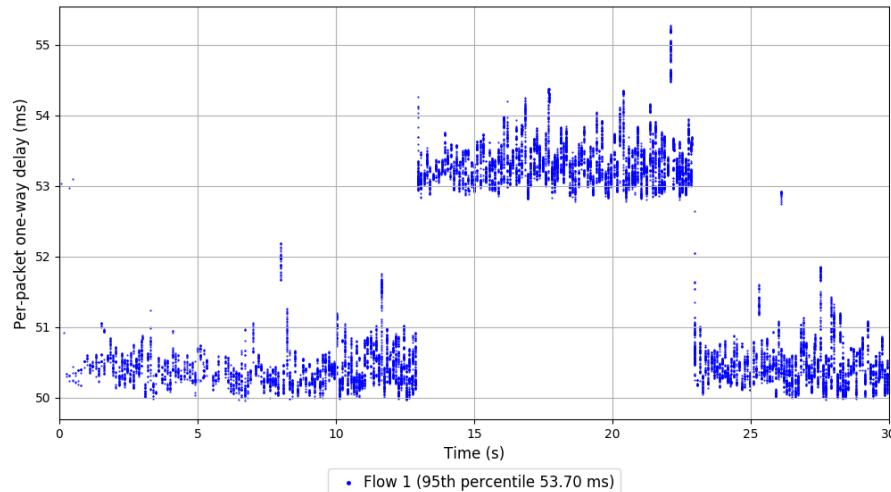
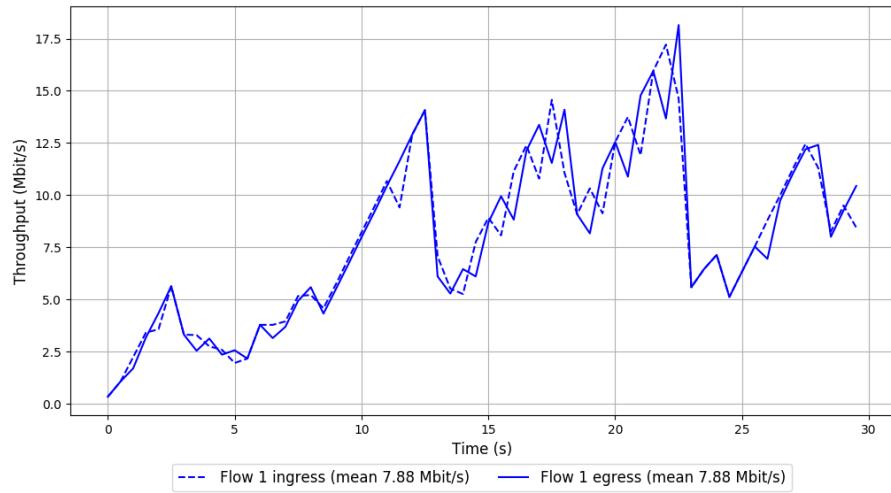
Run 10: Statistics of LEDBAT

Start at: 2018-01-09 04:25:05

End at: 2018-01-09 04:25:35

```
# Below is generated by plot.py at 2018-01-09 05:40:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 53.698 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 53.698 ms
Loss rate: 0.00%
```

## Run 10: Report of LEDBAT — Data Link

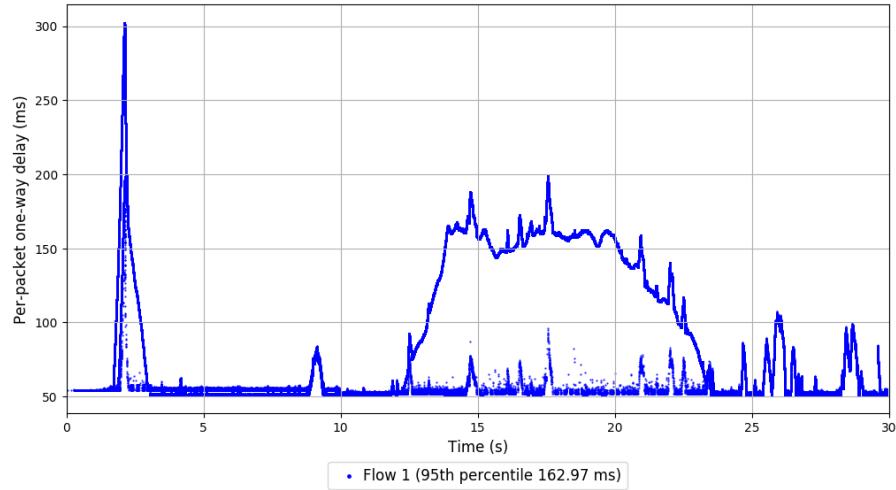
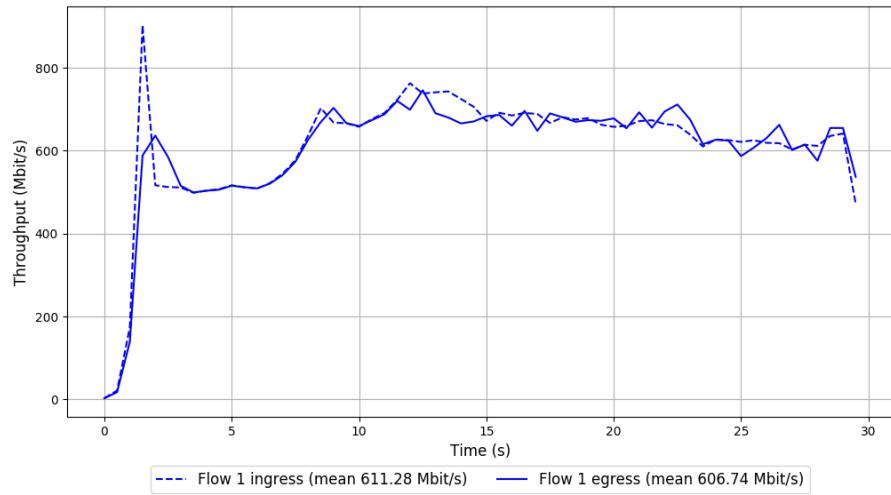


```
Run 1: Statistics of PCC

Start at: 2018-01-09 02:45:25
End at: 2018-01-09 02:45:55

# Below is generated by plot.py at 2018-01-09 05:49:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 606.74 Mbit/s
95th percentile per-packet one-way delay: 162.974 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 606.74 Mbit/s
95th percentile per-packet one-way delay: 162.974 ms
Loss rate: 0.75%
```

### Run 1: Report of PCC — Data Link



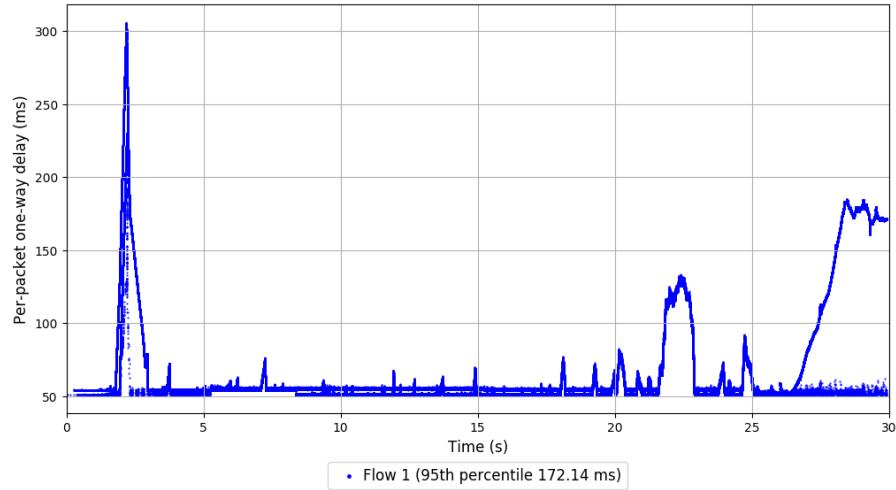
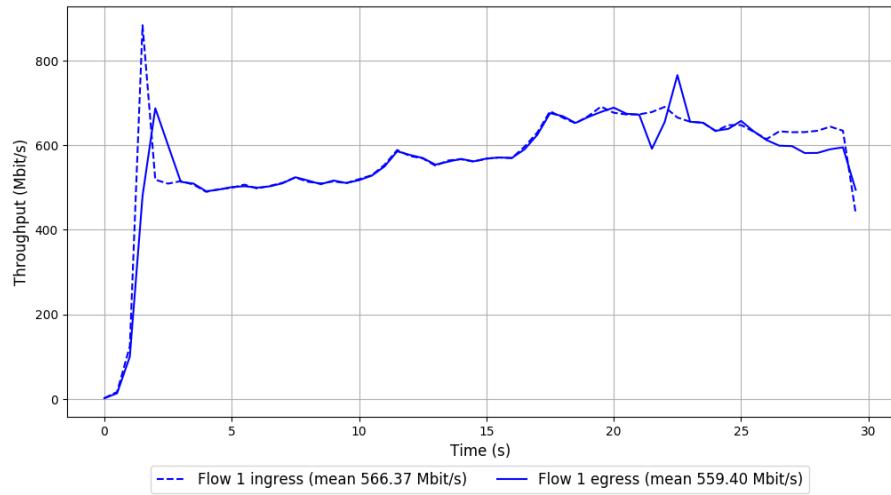
Run 2: Statistics of PCC

Start at: 2018-01-09 02:56:49

End at: 2018-01-09 02:57:19

```
# Below is generated by plot.py at 2018-01-09 05:49:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 559.40 Mbit/s
95th percentile per-packet one-way delay: 172.143 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 559.40 Mbit/s
95th percentile per-packet one-way delay: 172.143 ms
Loss rate: 1.23%
```

## Run 2: Report of PCC — Data Link



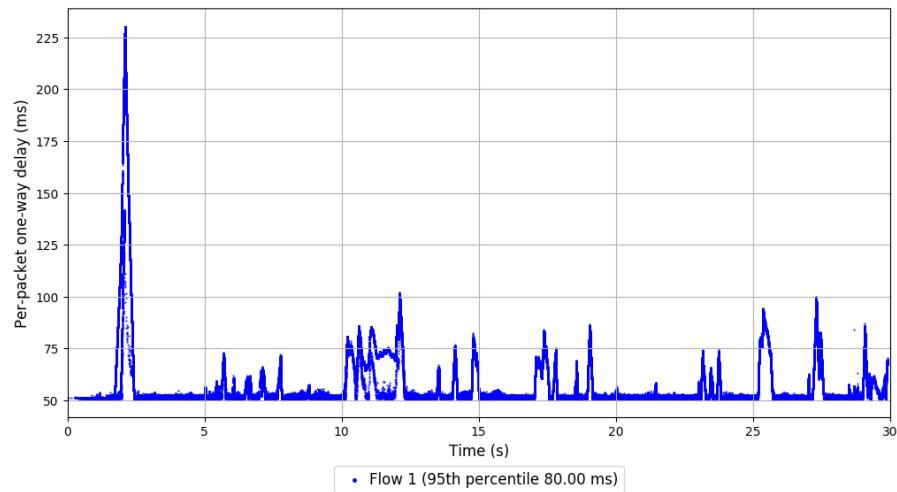
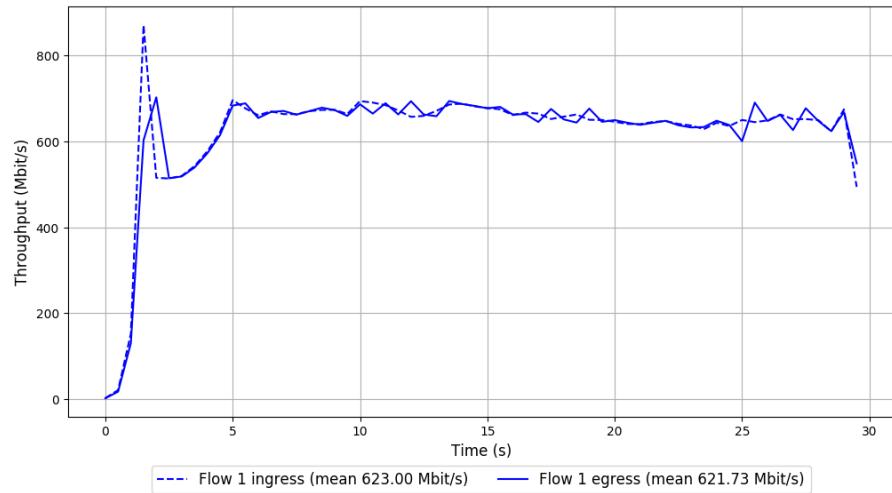
Run 3: Statistics of PCC

Start at: 2018-01-09 03:08:12

End at: 2018-01-09 03:08:42

```
# Below is generated by plot.py at 2018-01-09 05:49:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 621.73 Mbit/s
95th percentile per-packet one-way delay: 80.003 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 621.73 Mbit/s
95th percentile per-packet one-way delay: 80.003 ms
Loss rate: 0.20%
```

### Run 3: Report of PCC — Data Link



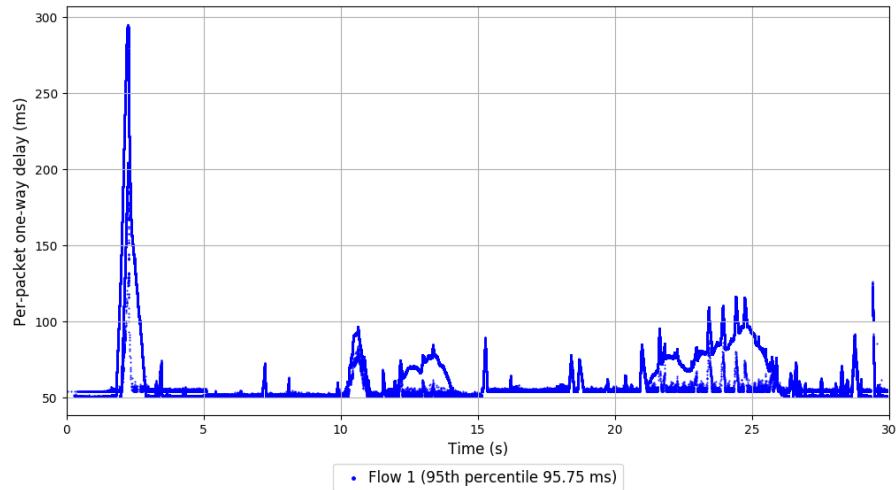
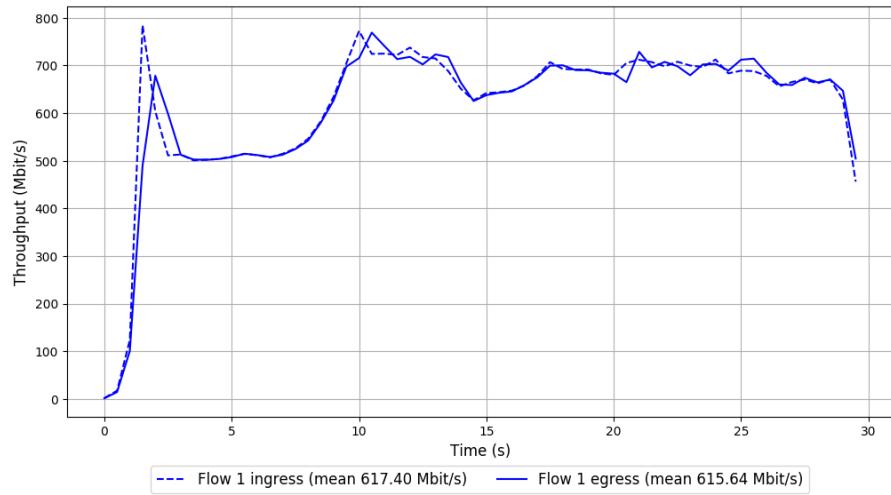
Run 4: Statistics of PCC

Start at: 2018-01-09 03:19:33

End at: 2018-01-09 03:20:03

```
# Below is generated by plot.py at 2018-01-09 05:49:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 615.64 Mbit/s
95th percentile per-packet one-way delay: 95.746 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 615.64 Mbit/s
95th percentile per-packet one-way delay: 95.746 ms
Loss rate: 0.29%
```

### Run 4: Report of PCC — Data Link



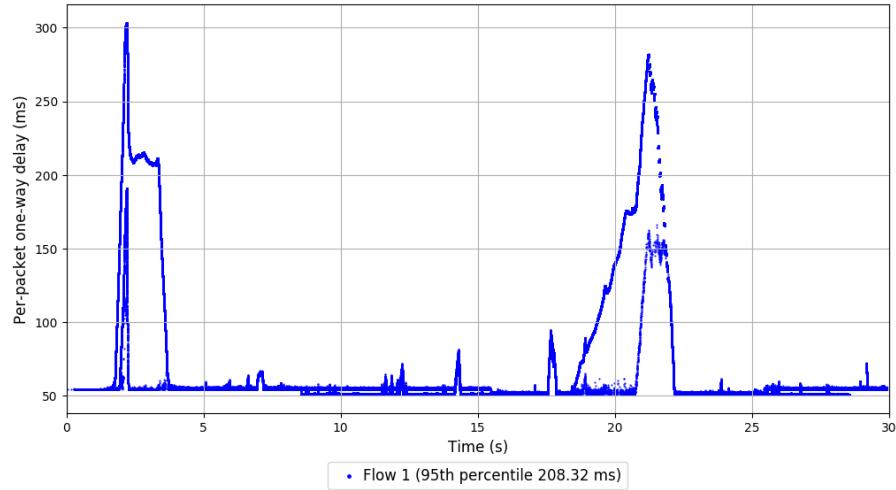
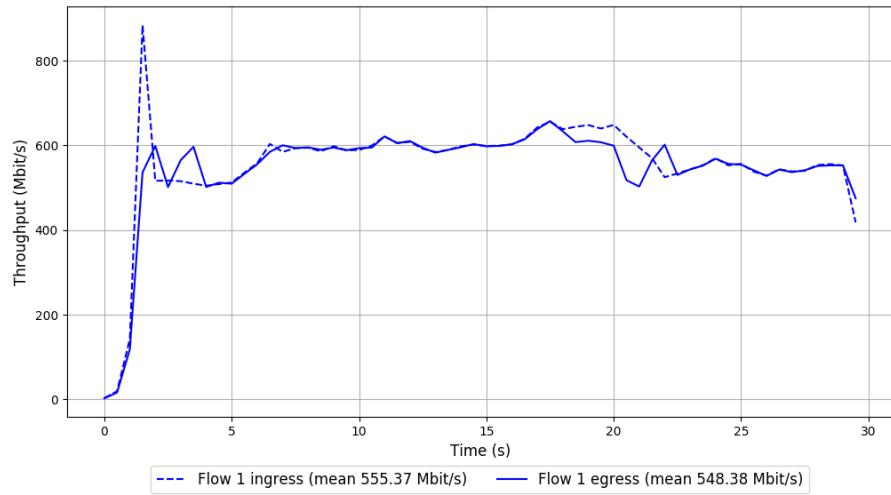
Run 5: Statistics of PCC

Start at: 2018-01-09 03:30:49

End at: 2018-01-09 03:31:19

```
# Below is generated by plot.py at 2018-01-09 05:49:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 548.38 Mbit/s
95th percentile per-packet one-way delay: 208.317 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 548.38 Mbit/s
95th percentile per-packet one-way delay: 208.317 ms
Loss rate: 1.27%
```

### Run 5: Report of PCC — Data Link



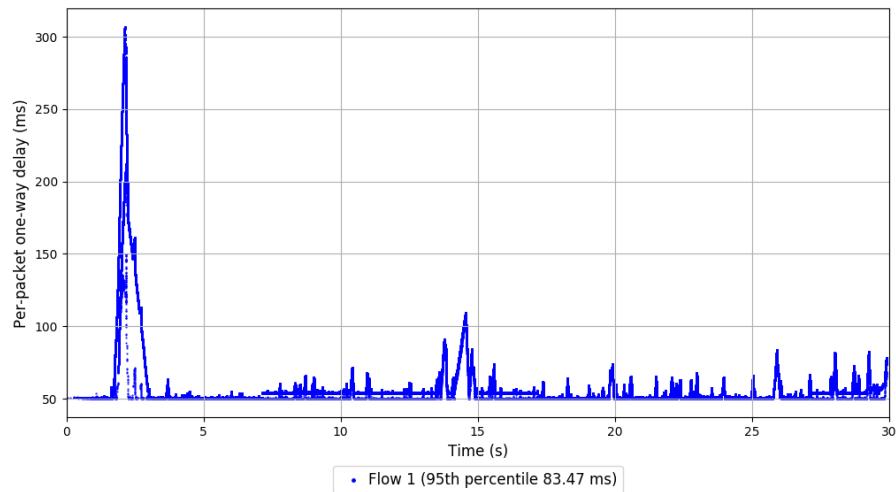
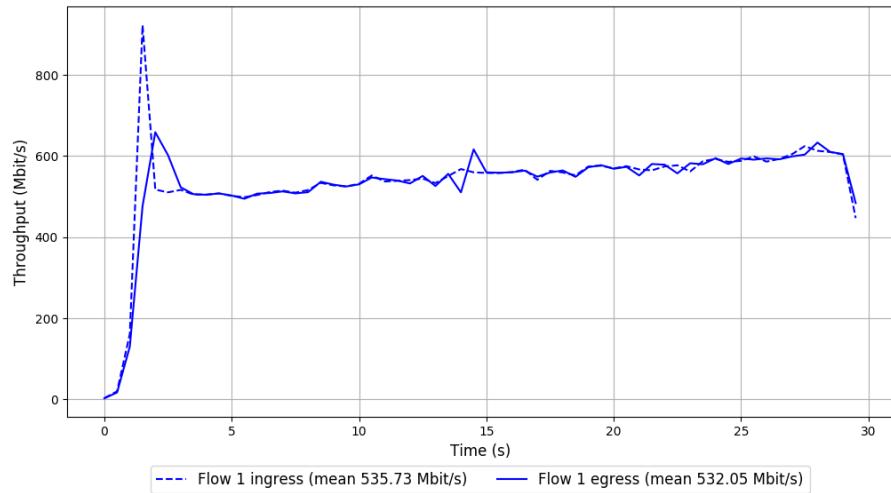
Run 6: Statistics of PCC

Start at: 2018-01-09 03:42:01

End at: 2018-01-09 03:42:31

```
# Below is generated by plot.py at 2018-01-09 05:49:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 532.05 Mbit/s
95th percentile per-packet one-way delay: 83.475 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 532.05 Mbit/s
95th percentile per-packet one-way delay: 83.475 ms
Loss rate: 0.68%
```

Run 6: Report of PCC — Data Link



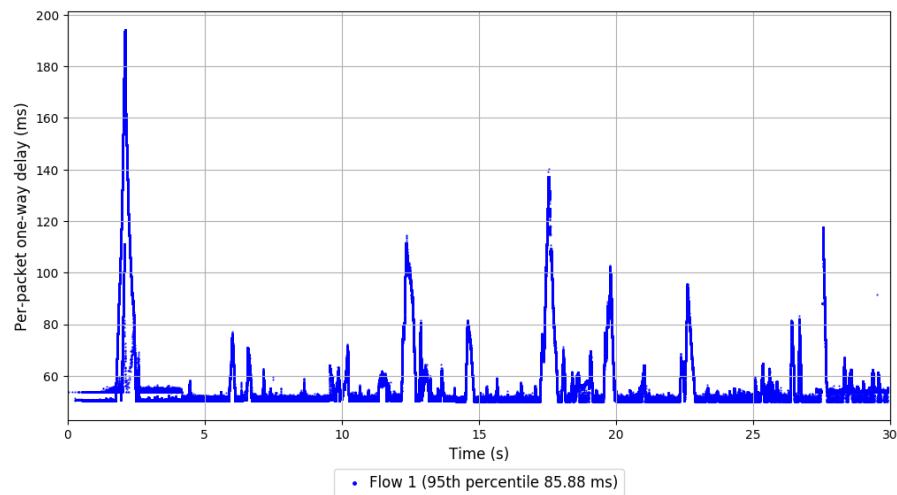
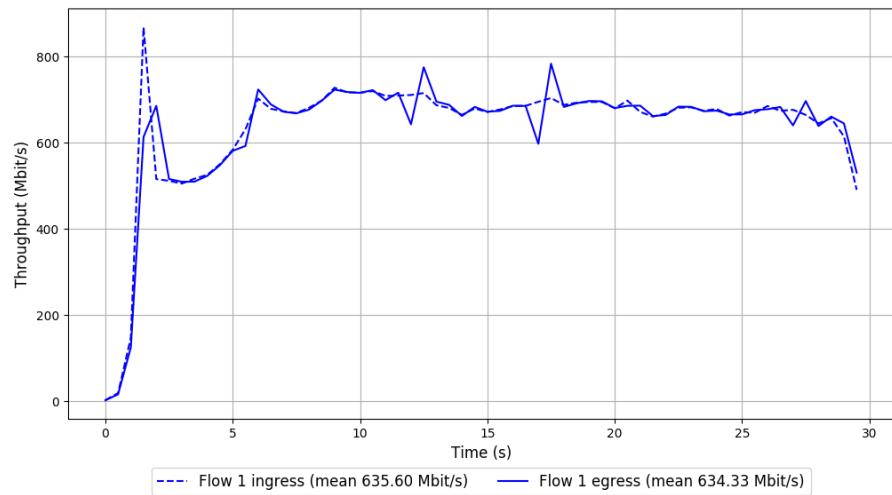
Run 7: Statistics of PCC

Start at: 2018-01-09 03:53:10

End at: 2018-01-09 03:53:40

```
# Below is generated by plot.py at 2018-01-09 05:51:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 634.33 Mbit/s
95th percentile per-packet one-way delay: 85.876 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 634.33 Mbit/s
95th percentile per-packet one-way delay: 85.876 ms
Loss rate: 0.21%
```

### Run 7: Report of PCC — Data Link



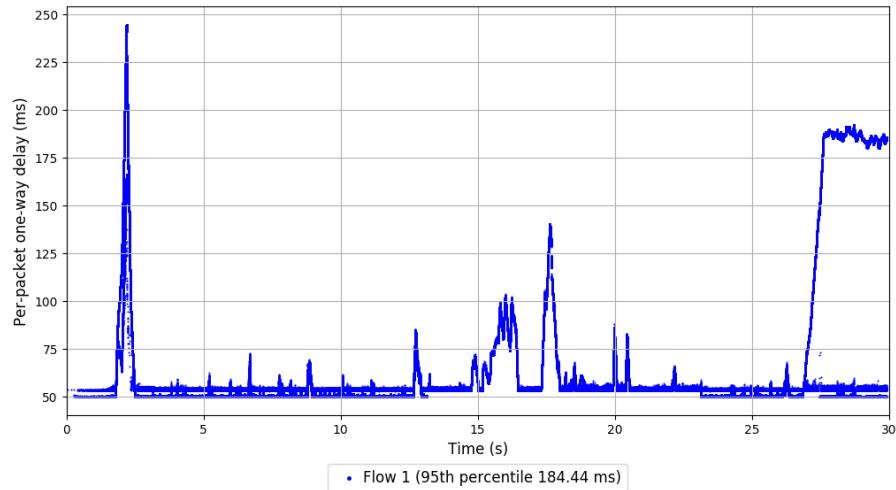
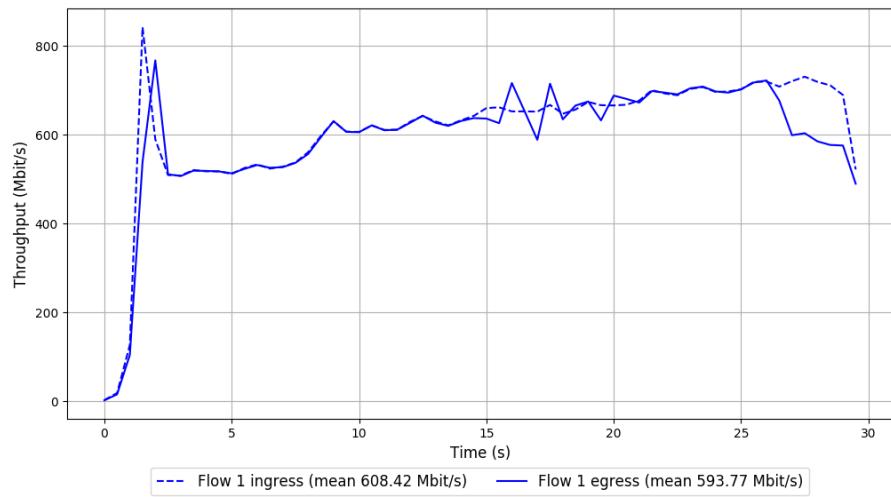
Run 8: Statistics of PCC

Start at: 2018-01-09 04:04:25

End at: 2018-01-09 04:04:55

```
# Below is generated by plot.py at 2018-01-09 05:51:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.77 Mbit/s
95th percentile per-packet one-way delay: 184.435 ms
Loss rate: 2.42%
-- Flow 1:
Average throughput: 593.77 Mbit/s
95th percentile per-packet one-way delay: 184.435 ms
Loss rate: 2.42%
```

### Run 8: Report of PCC — Data Link



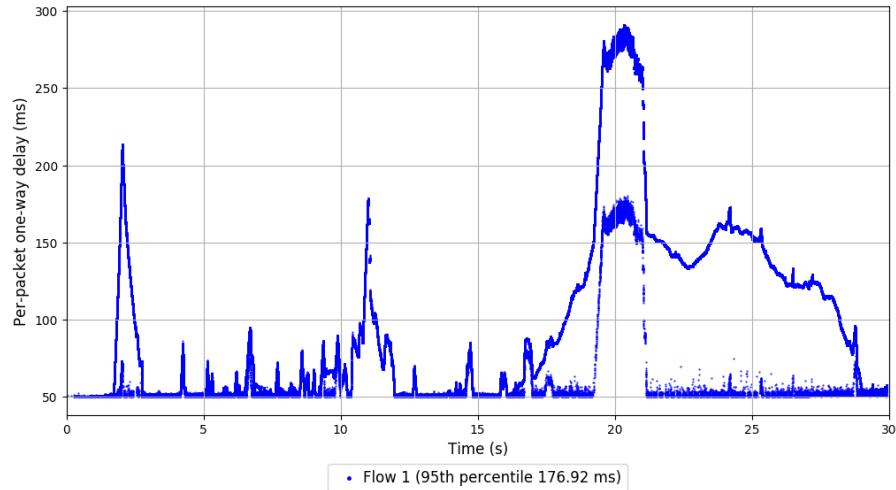
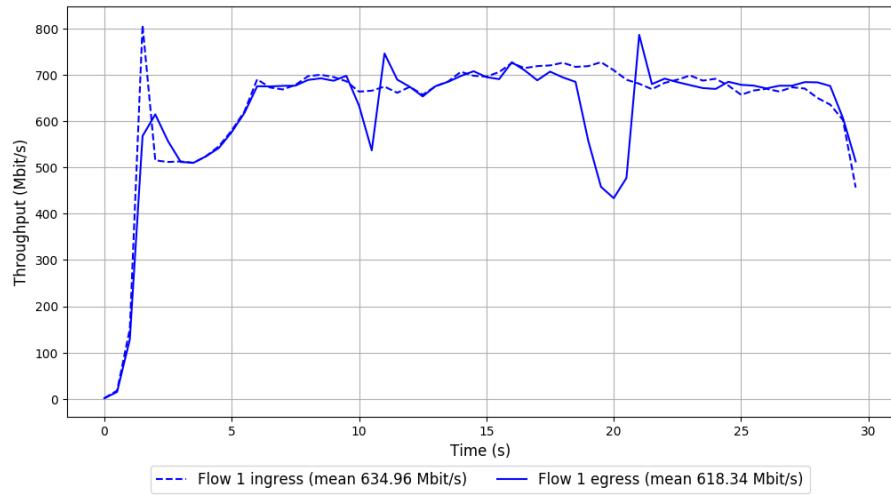
Run 9: Statistics of PCC

Start at: 2018-01-09 04:15:41

End at: 2018-01-09 04:16:11

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 618.34 Mbit/s
95th percentile per-packet one-way delay: 176.918 ms
Loss rate: 2.62%
-- Flow 1:
Average throughput: 618.34 Mbit/s
95th percentile per-packet one-way delay: 176.918 ms
Loss rate: 2.62%
```

### Run 9: Report of PCC — Data Link



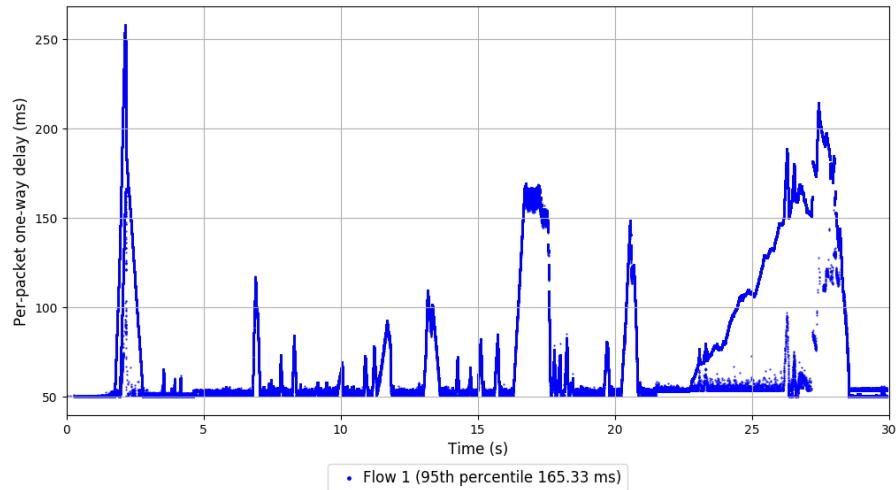
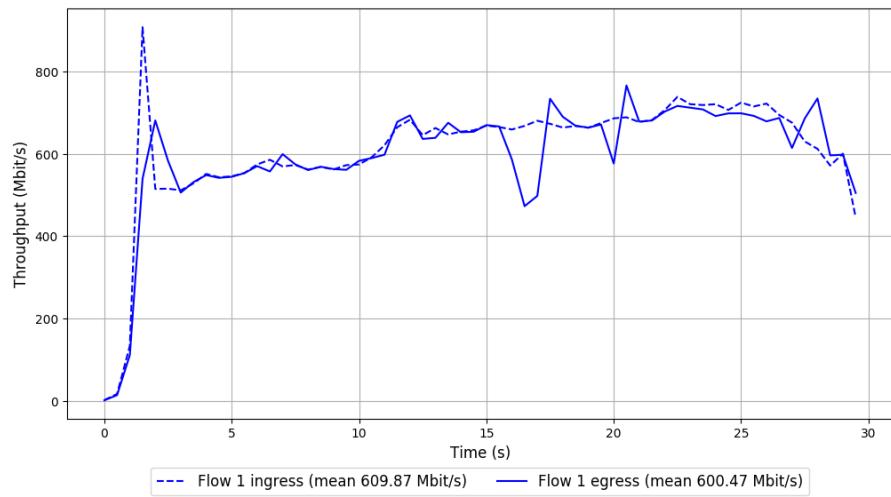
Run 10: Statistics of PCC

Start at: 2018-01-09 04:27:23

End at: 2018-01-09 04:27:53

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 600.47 Mbit/s
95th percentile per-packet one-way delay: 165.331 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 600.47 Mbit/s
95th percentile per-packet one-way delay: 165.331 ms
Loss rate: 1.54%
```

Run 10: Report of PCC — Data Link

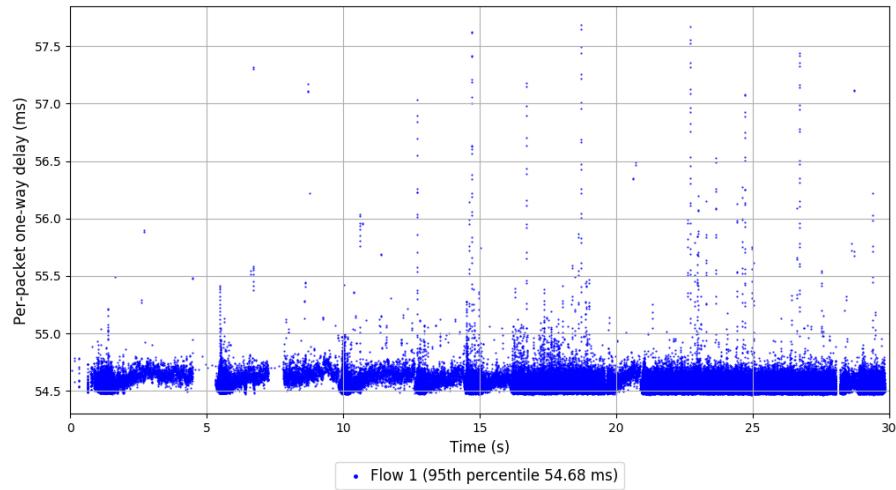
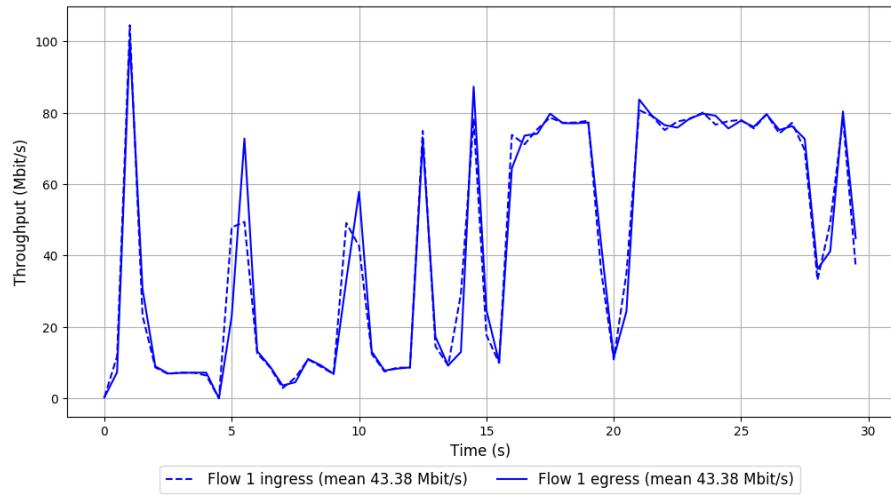


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-09 02:48:22
End at: 2018-01-09 02:48:52

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.38 Mbit/s
95th percentile per-packet one-way delay: 54.678 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 43.38 Mbit/s
95th percentile per-packet one-way delay: 54.678 ms
Loss rate: 0.02%
```

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



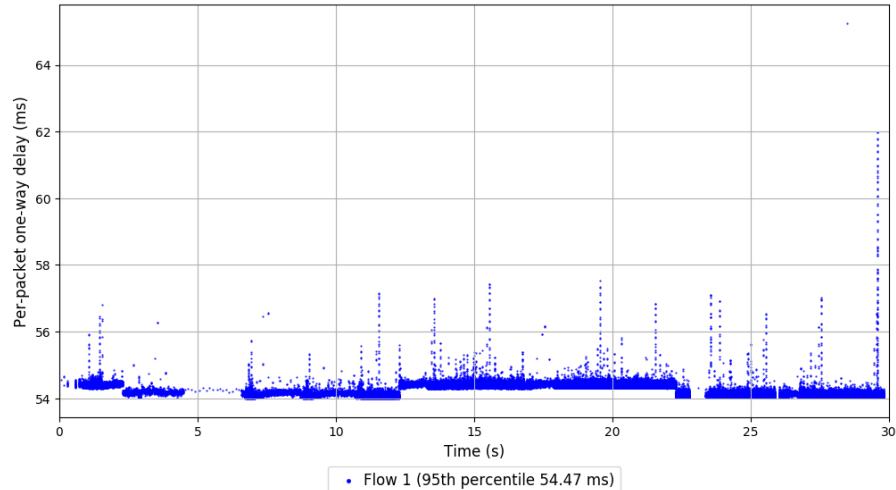
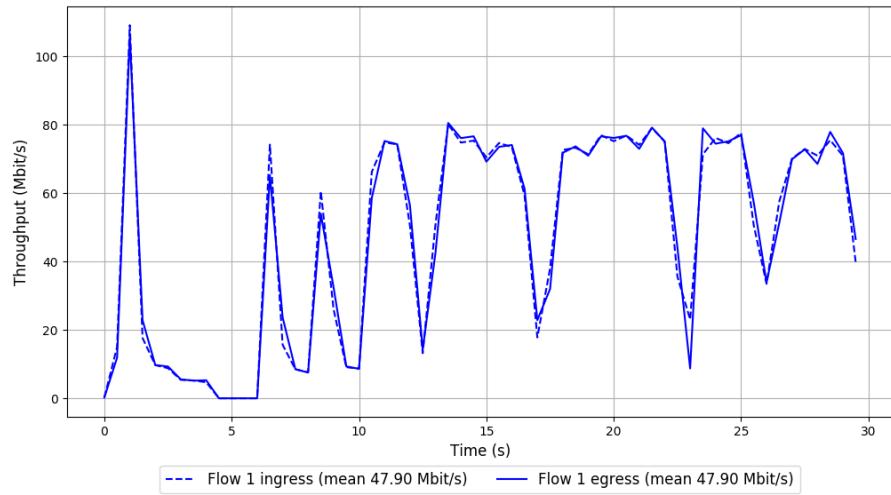
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-09 02:59:45

End at: 2018-01-09 03:00:15

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.90 Mbit/s
95th percentile per-packet one-way delay: 54.473 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 47.90 Mbit/s
95th percentile per-packet one-way delay: 54.473 ms
Loss rate: 0.01%
```

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



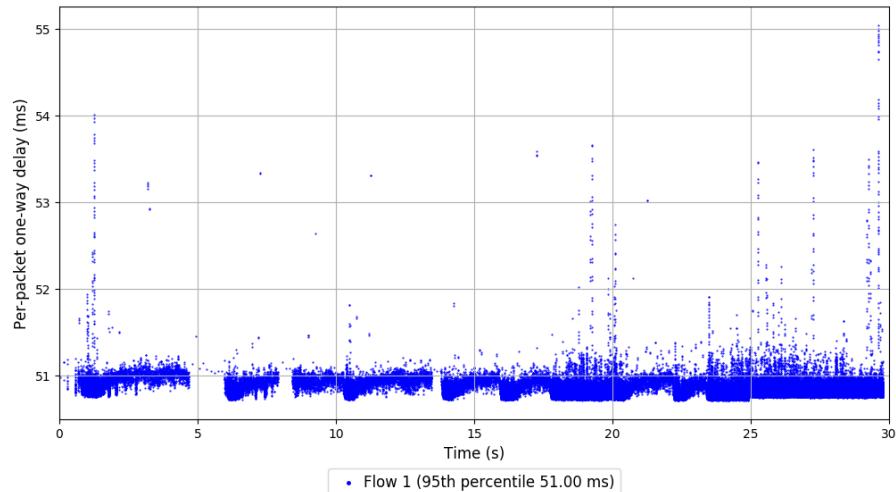
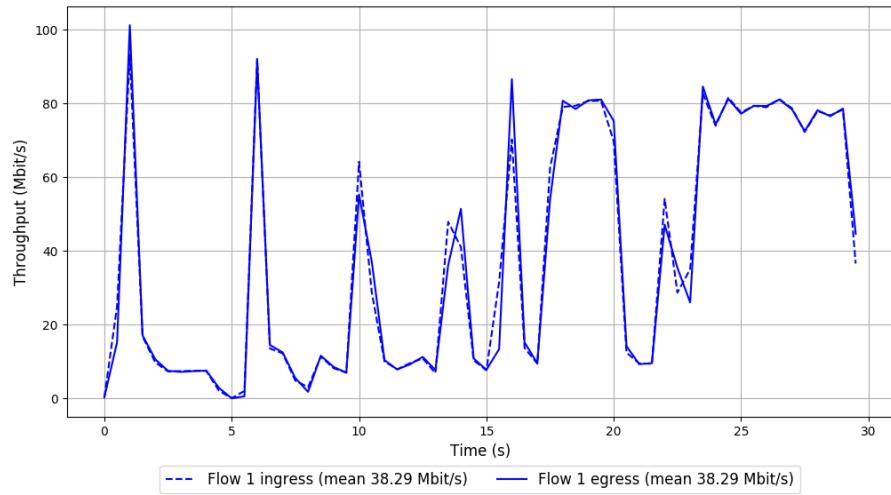
Run 3: Statistics of QUIC Cubic

Start at: 2018-01-09 03:11:10

End at: 2018-01-09 03:11:40

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 50.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 50.998 ms
Loss rate: 0.00%
```

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



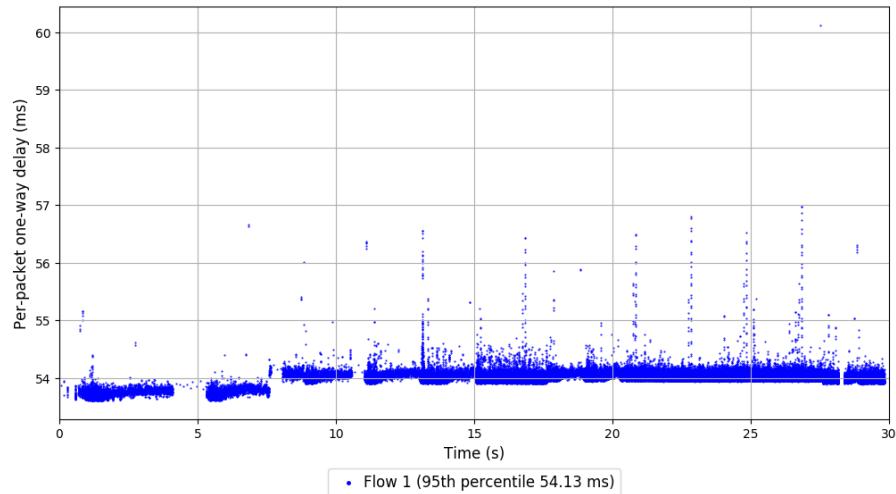
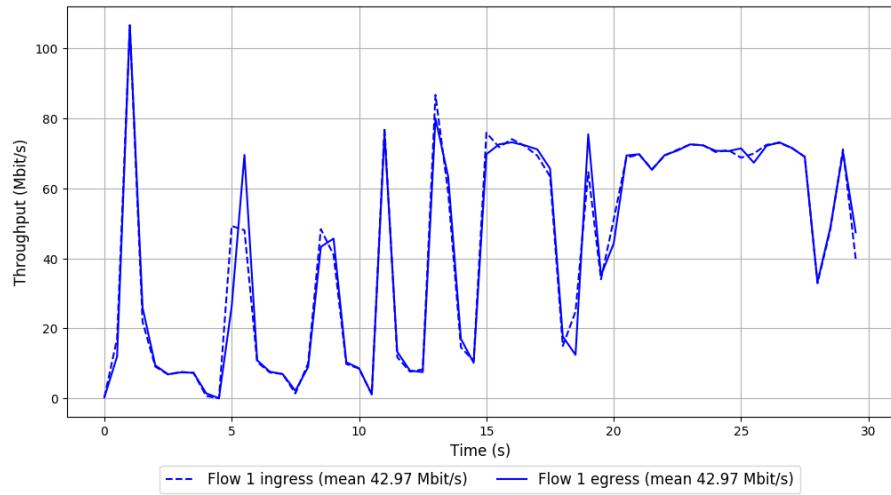
Run 4: Statistics of QUIC Cubic

Start at: 2018-01-09 03:22:30

End at: 2018-01-09 03:23:00

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.97 Mbit/s
95th percentile per-packet one-way delay: 54.132 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 42.97 Mbit/s
95th percentile per-packet one-way delay: 54.132 ms
Loss rate: 0.01%
```

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



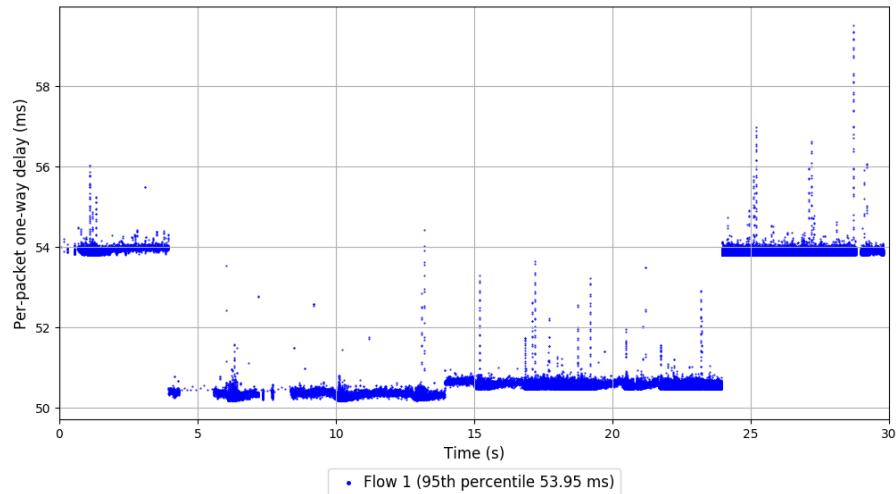
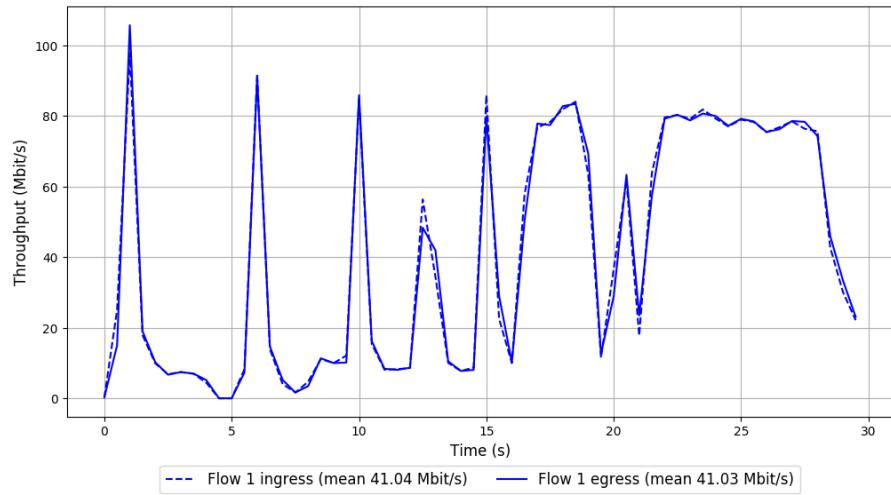
Run 5: Statistics of QUIC Cubic

Start at: 2018-01-09 03:33:44

End at: 2018-01-09 03:34:14

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.03 Mbit/s
95th percentile per-packet one-way delay: 53.948 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 41.03 Mbit/s
95th percentile per-packet one-way delay: 53.948 ms
Loss rate: 0.03%
```

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



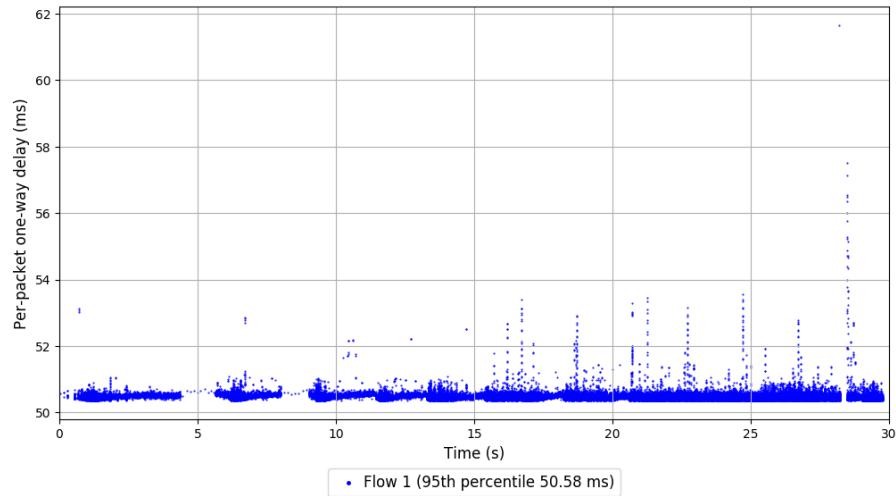
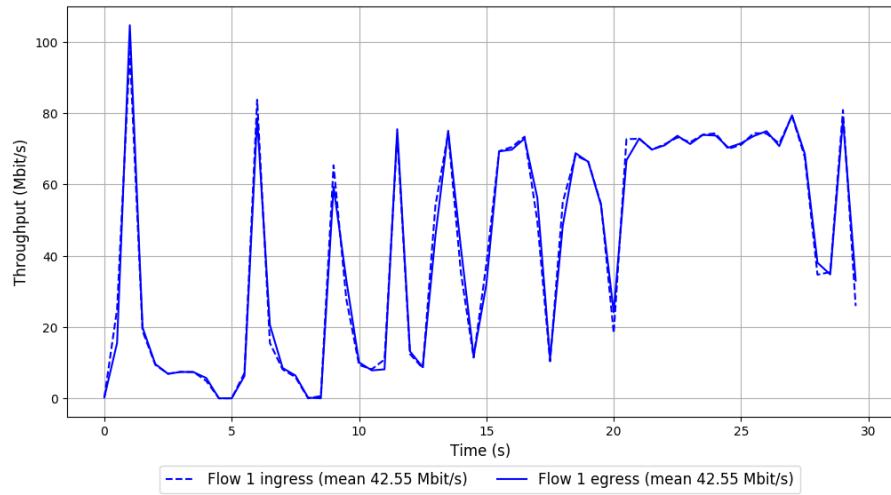
Run 6: Statistics of QUIC Cubic

Start at: 2018-01-09 03:44:56

End at: 2018-01-09 03:45:26

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.55 Mbit/s
95th percentile per-packet one-way delay: 50.577 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.55 Mbit/s
95th percentile per-packet one-way delay: 50.577 ms
Loss rate: 0.00%
```

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



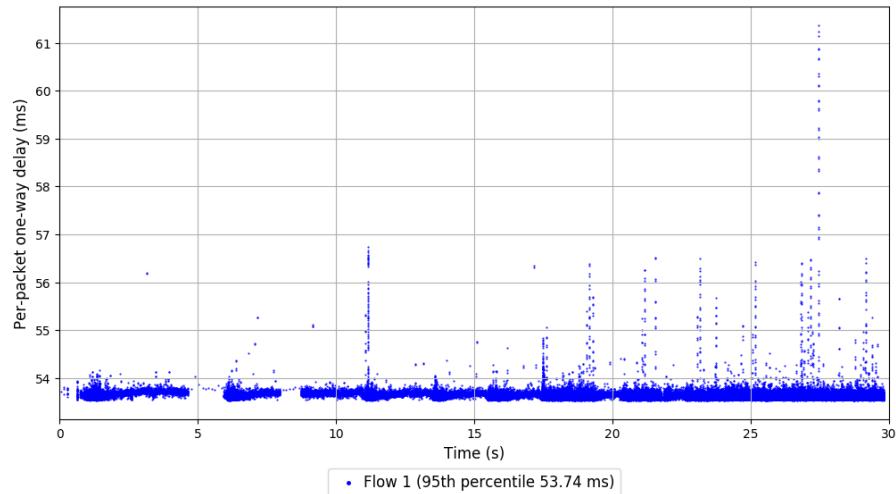
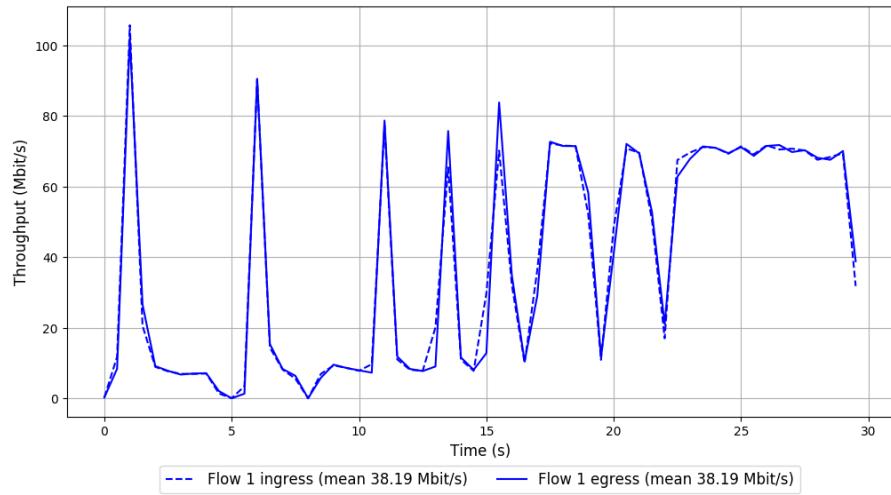
Run 7: Statistics of QUIC Cubic

Start at: 2018-01-09 03:56:10

End at: 2018-01-09 03:56:40

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.19 Mbit/s
95th percentile per-packet one-way delay: 53.740 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 38.19 Mbit/s
95th percentile per-packet one-way delay: 53.740 ms
Loss rate: 0.01%
```

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



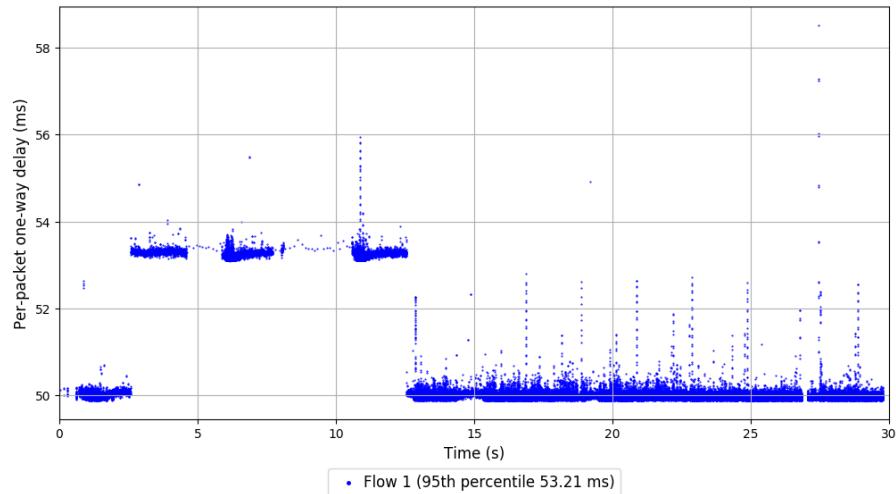
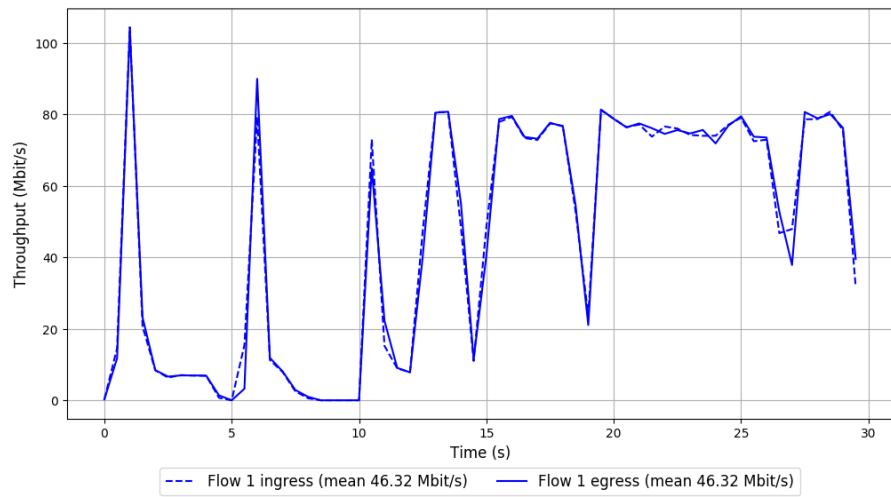
Run 8: Statistics of QUIC Cubic

Start at: 2018-01-09 04:07:22

End at: 2018-01-09 04:07:52

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.32 Mbit/s
95th percentile per-packet one-way delay: 53.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.32 Mbit/s
95th percentile per-packet one-way delay: 53.206 ms
Loss rate: 0.00%
```

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



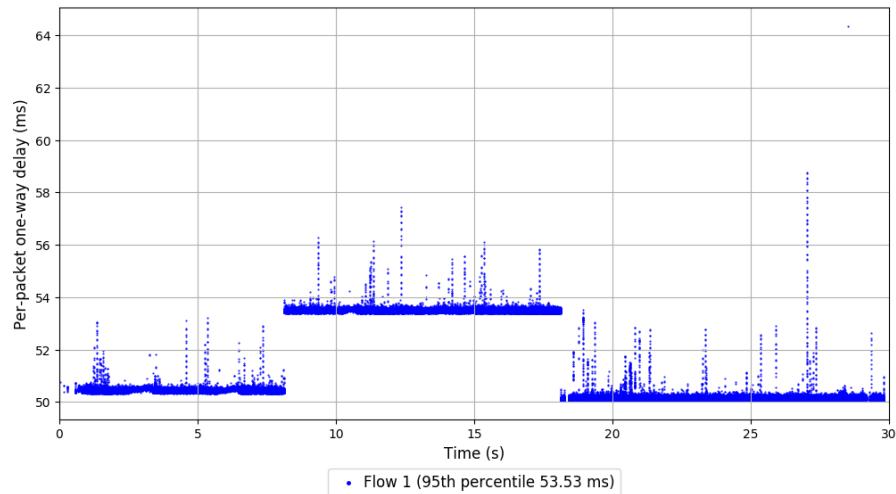
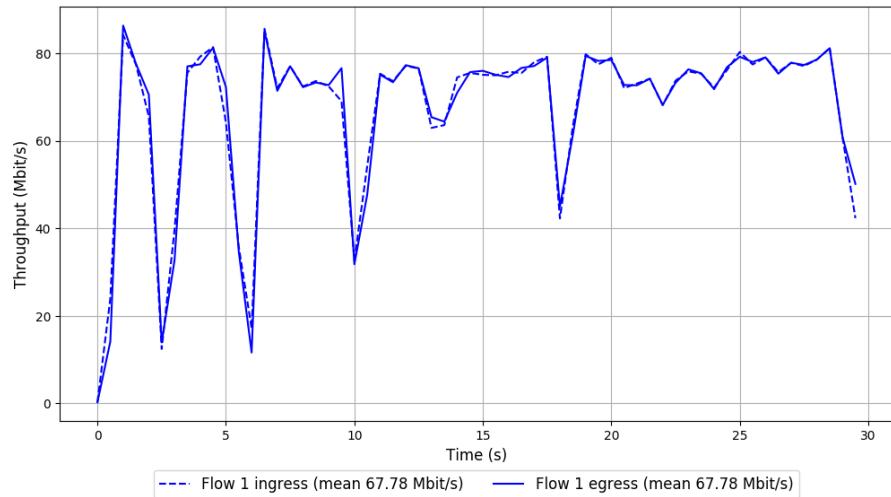
Run 9: Statistics of QUIC Cubic

Start at: 2018-01-09 04:18:39

End at: 2018-01-09 04:19:09

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.78 Mbit/s
95th percentile per-packet one-way delay: 53.530 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.78 Mbit/s
95th percentile per-packet one-way delay: 53.530 ms
Loss rate: 0.00%
```

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



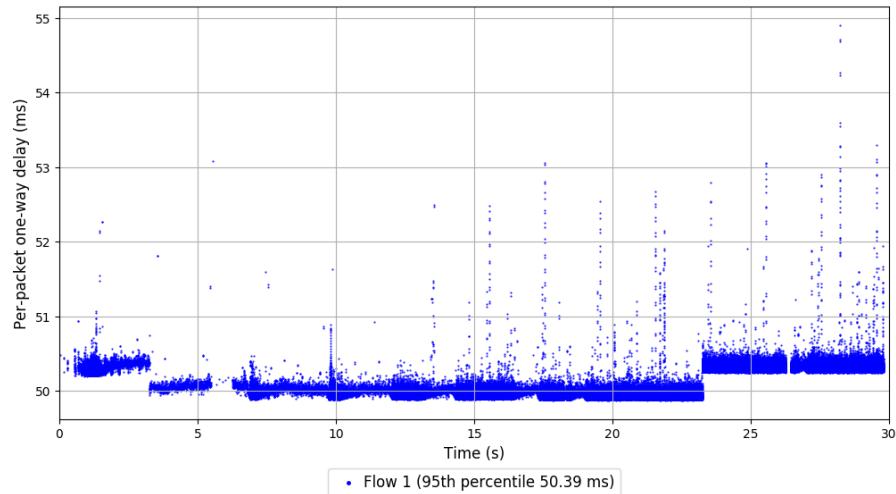
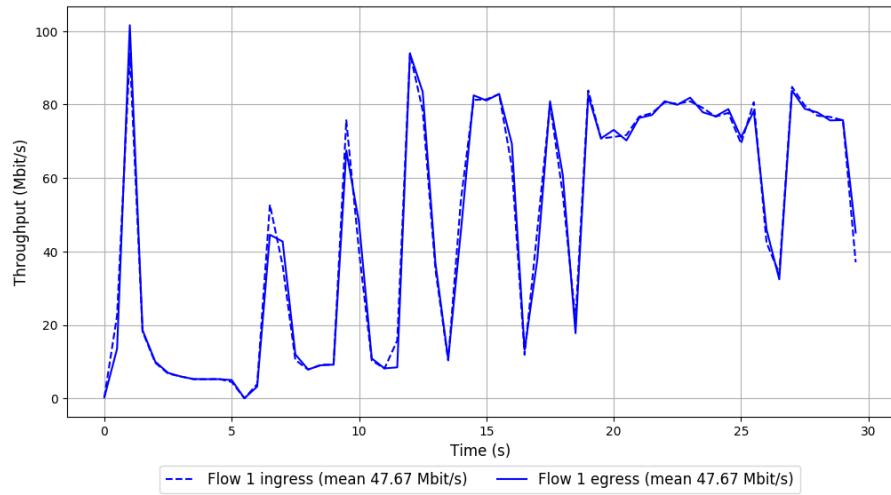
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-09 04:30:21

End at: 2018-01-09 04:30:51

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.67 Mbit/s
95th percentile per-packet one-way delay: 50.389 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.67 Mbit/s
95th percentile per-packet one-way delay: 50.389 ms
Loss rate: 0.00%
```

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

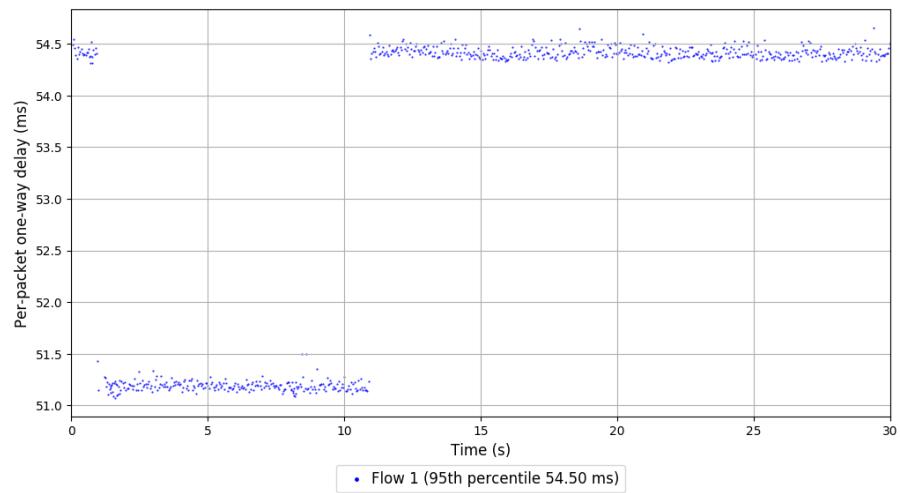
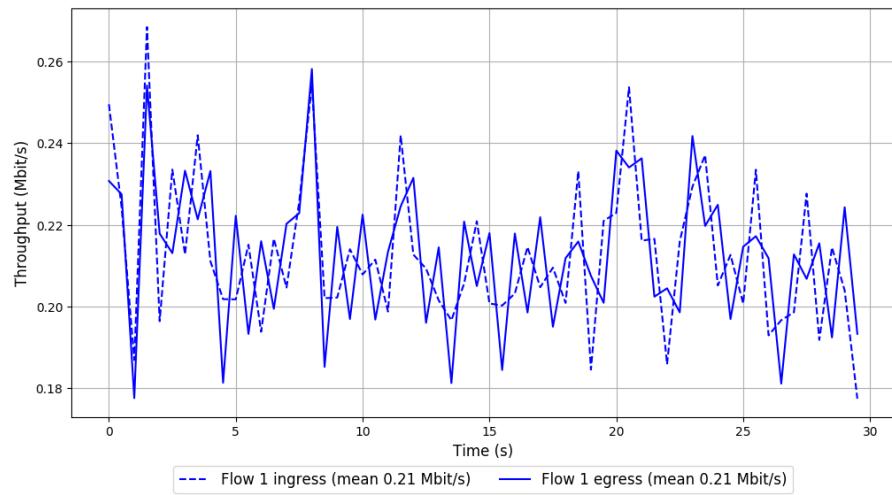


```
Run 1: Statistics of SCReAM

Start at: 2018-01-09 02:46:24
End at: 2018-01-09 02:46:54

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.502 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.502 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link



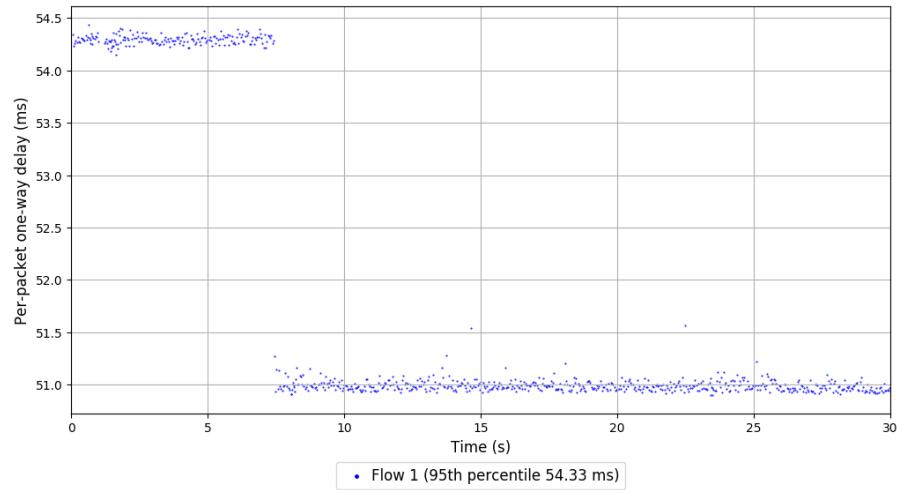
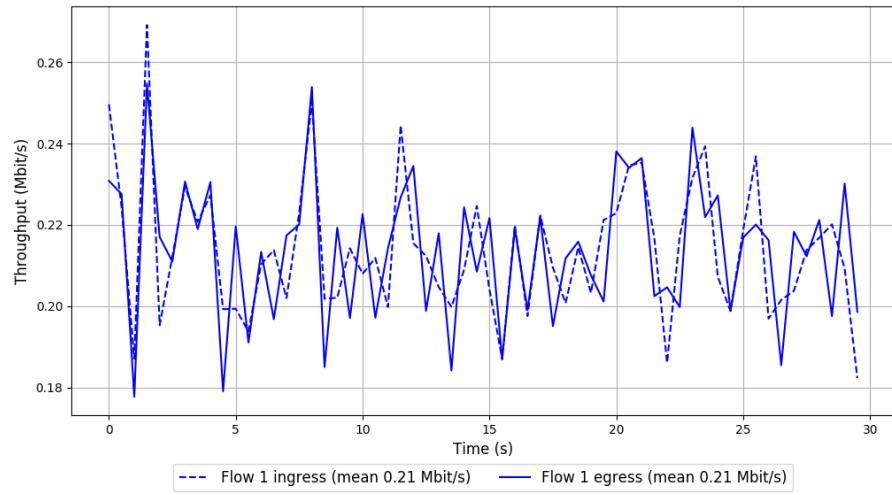
Run 2: Statistics of SCReAM

Start at: 2018-01-09 02:57:47

End at: 2018-01-09 02:58:17

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.328 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.328 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link



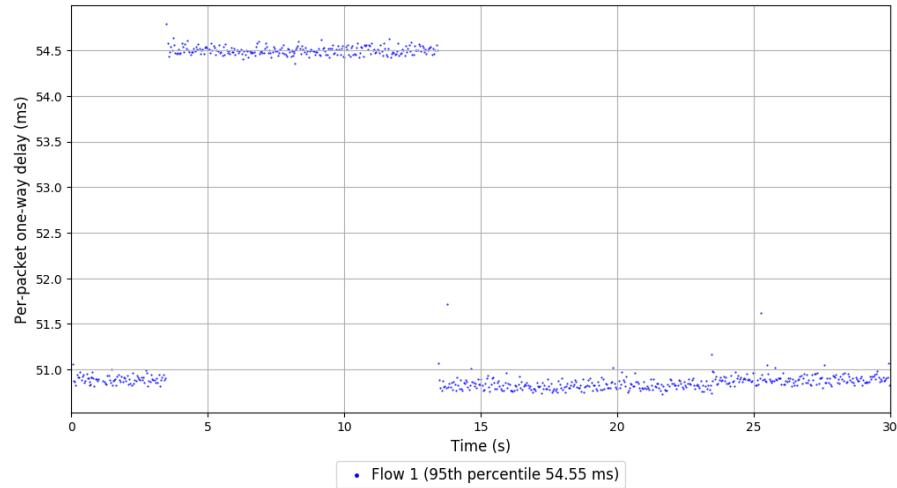
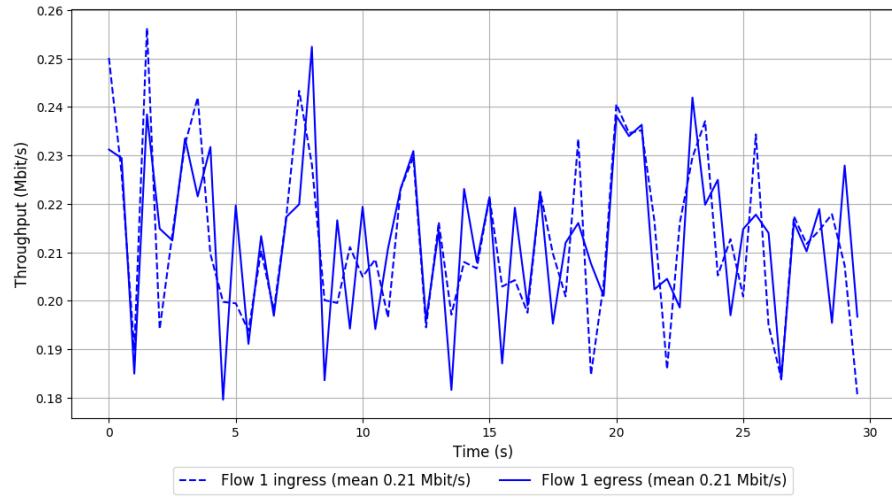
Run 3: Statistics of SCReAM

Start at: 2018-01-09 03:09:11

End at: 2018-01-09 03:09:41

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.550 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.550 ms
Loss rate: 0.00%
```

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



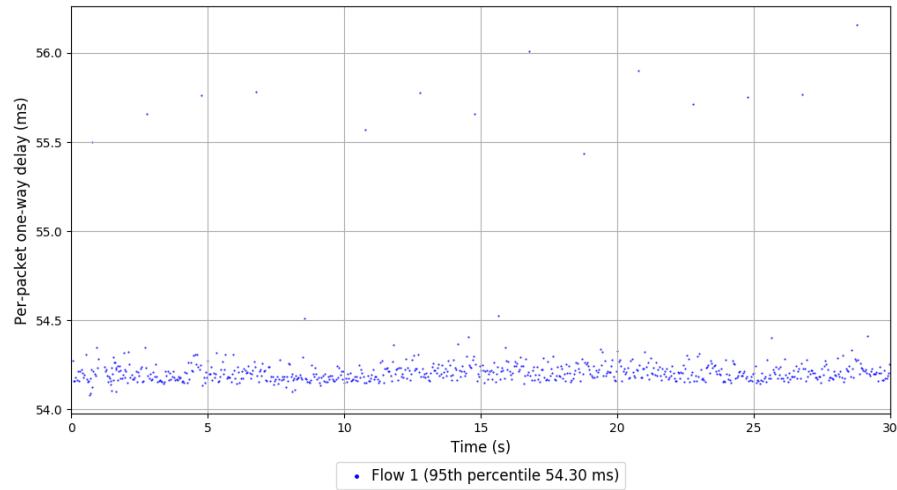
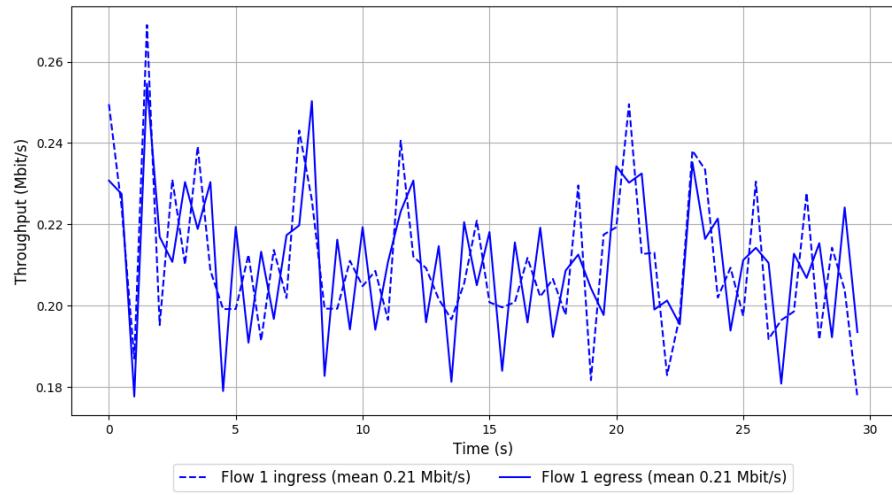
Run 4: Statistics of SCReAM

Start at: 2018-01-09 03:20:32

End at: 2018-01-09 03:21:02

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.305 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.305 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

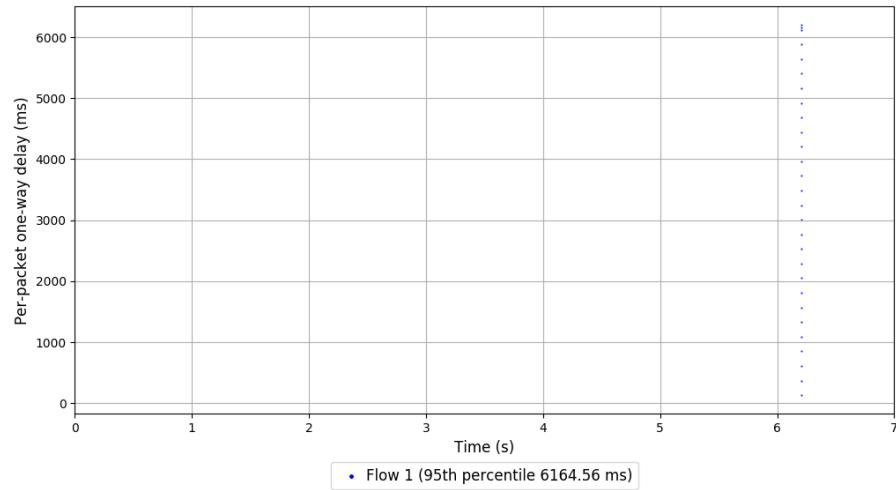
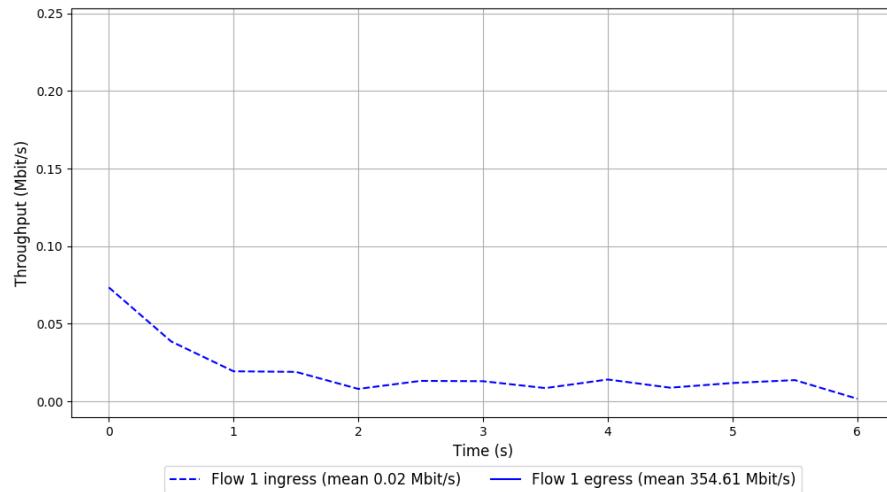


Run 5: Statistics of SCReAM

Start at: 2018-01-09 03:31:46

End at: 2018-01-09 03:32:16

## Run 5: Report of SCReAM — Data Link



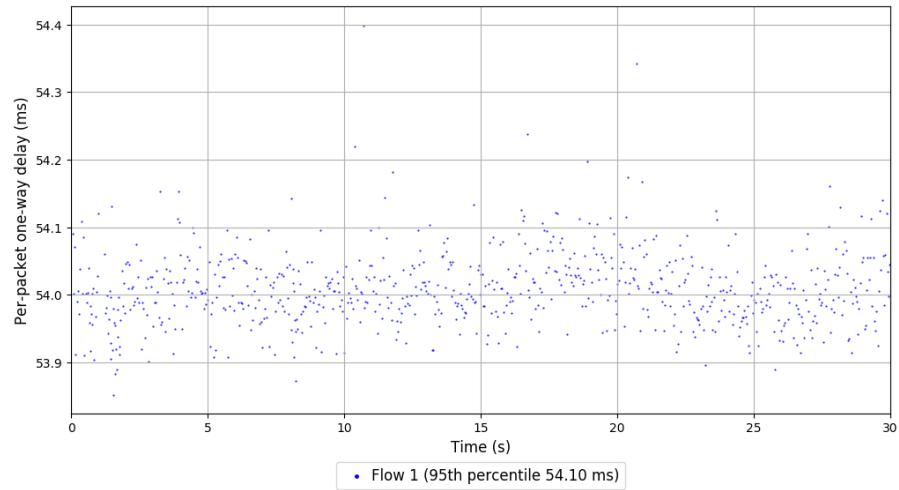
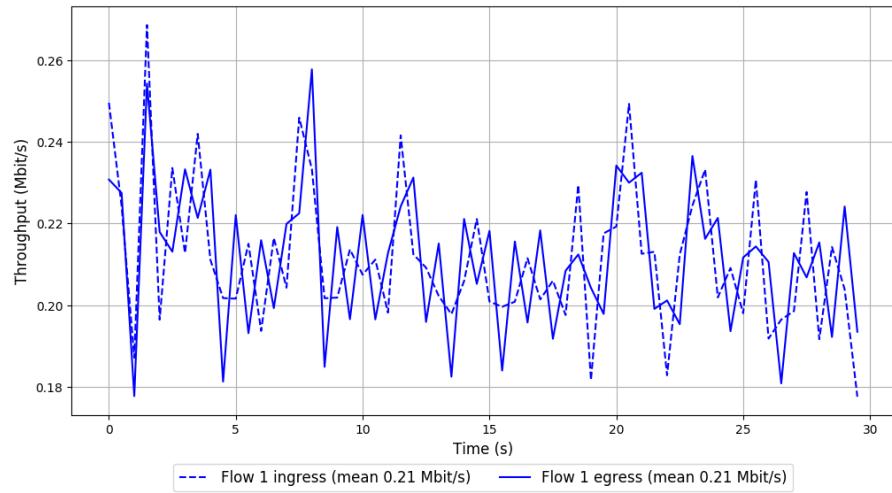
Run 6: Statistics of SCReAM

Start at: 2018-01-09 03:42:57

End at: 2018-01-09 03:43:27

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.103 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link



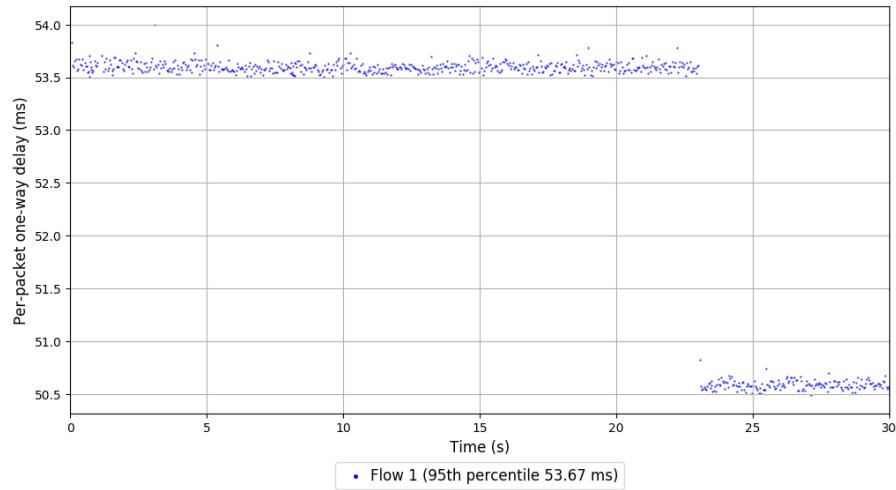
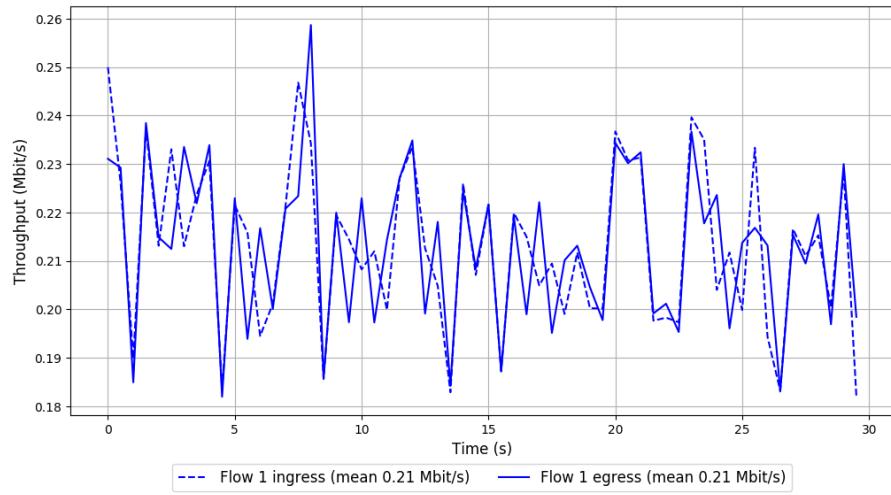
Run 7: Statistics of SCReAM

Start at: 2018-01-09 03:54:12

End at: 2018-01-09 03:54:42

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.671 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.671 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link

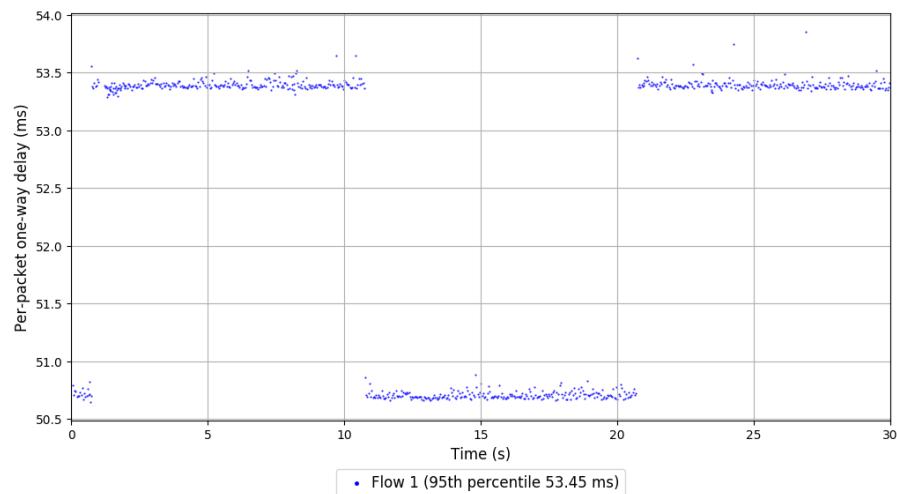
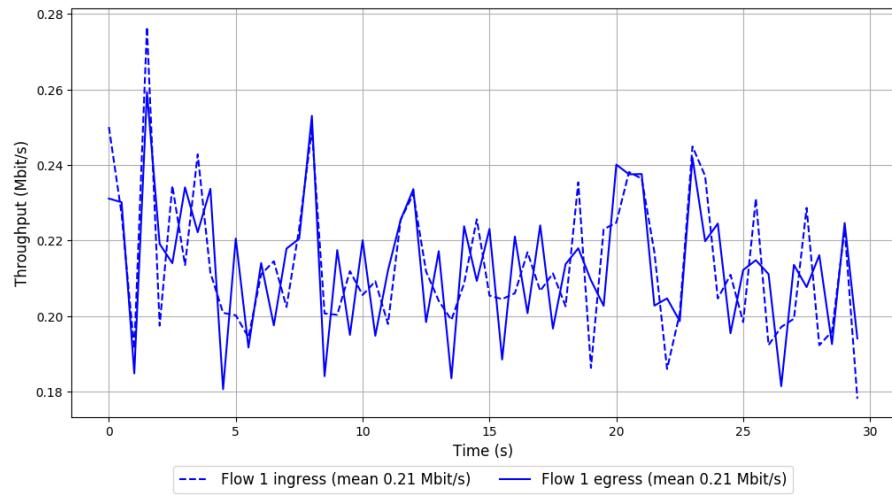


```
Run 8: Statistics of SCReAM

Start at: 2018-01-09 04:05:24
End at: 2018-01-09 04:05:54

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.449 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.449 ms
Loss rate: 0.00%
```

### Run 8: Report of SCReAM — Data Link



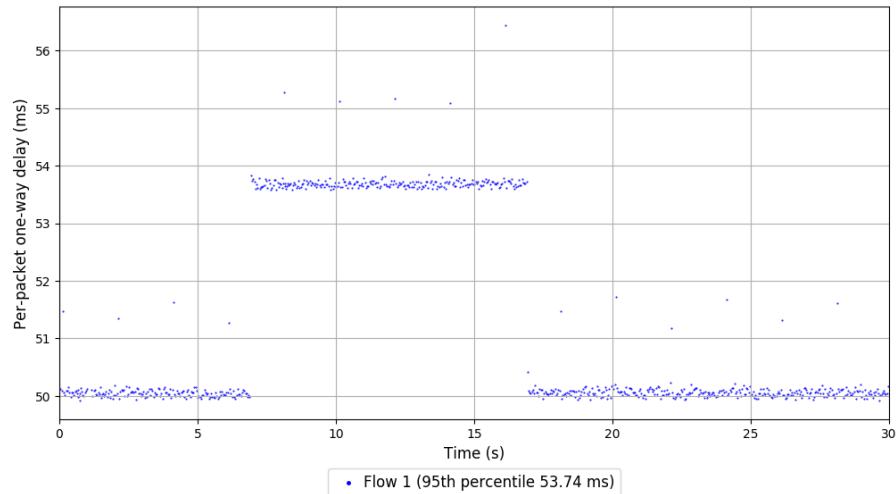
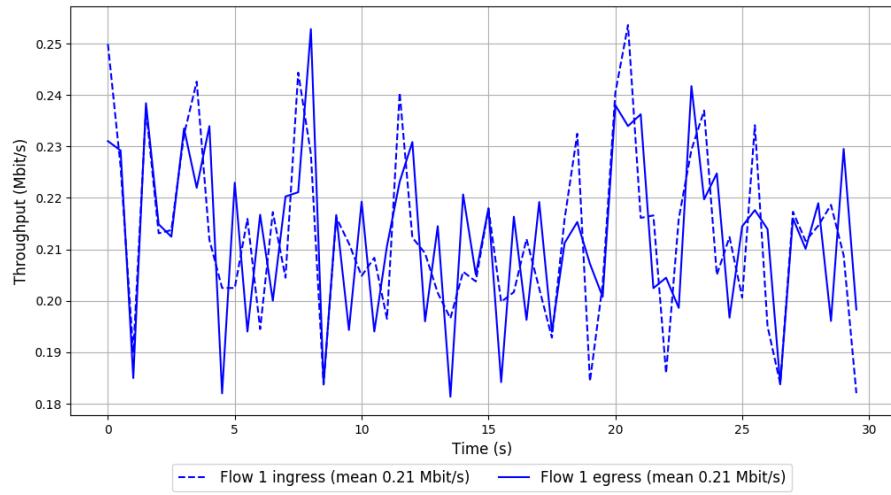
Run 9: Statistics of SCReAM

Start at: 2018-01-09 04:16:41

End at: 2018-01-09 04:17:11

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.745 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.745 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link

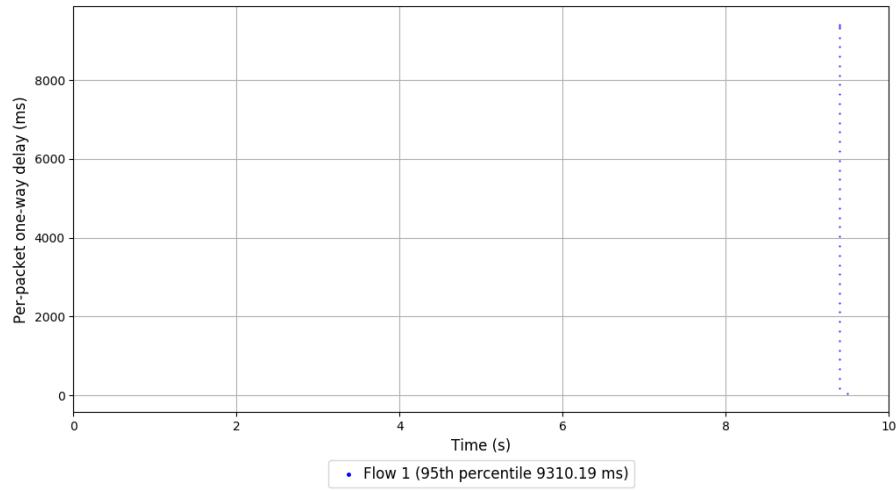
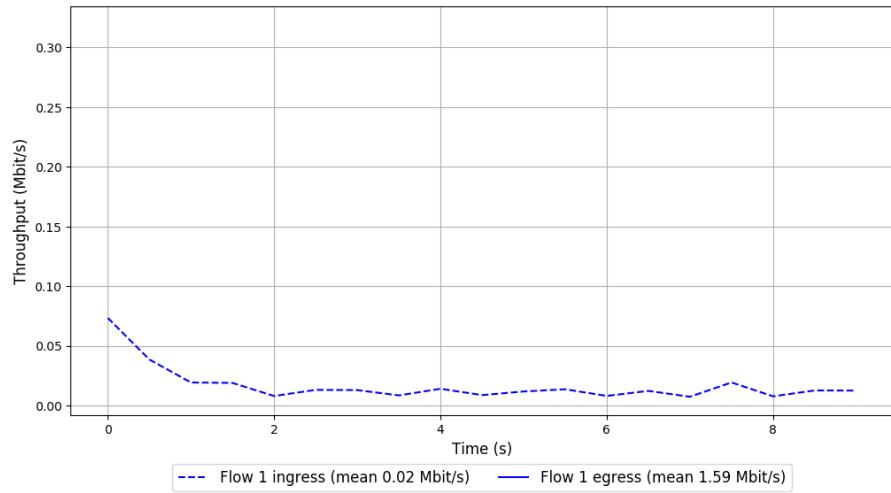


Run 10: Statistics of SCReAM

Start at: 2018-01-09 04:28:23

End at: 2018-01-09 04:28:53

## Run 10: Report of SCReAM — Data Link

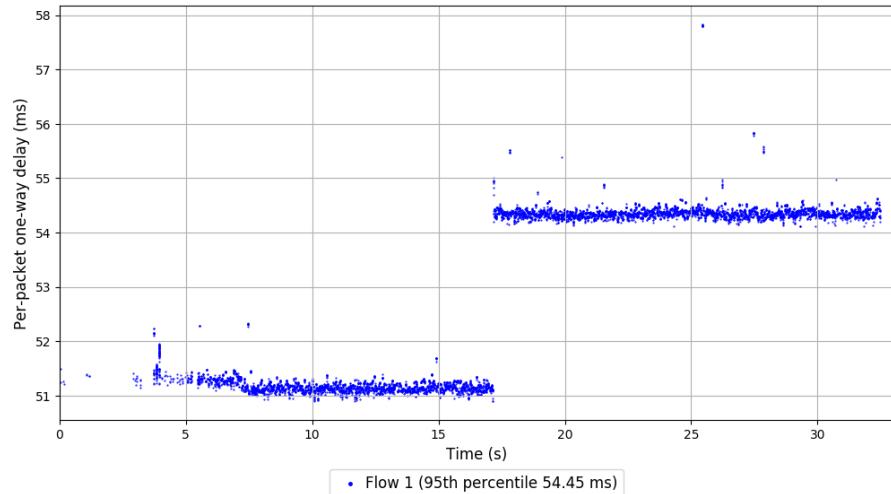
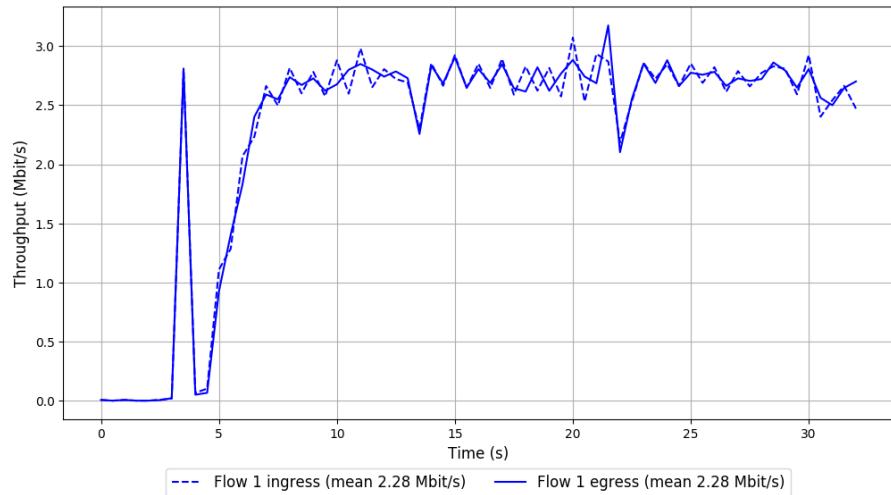


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-09 02:51:00
End at: 2018-01-09 02:51:30

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.454 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.454 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



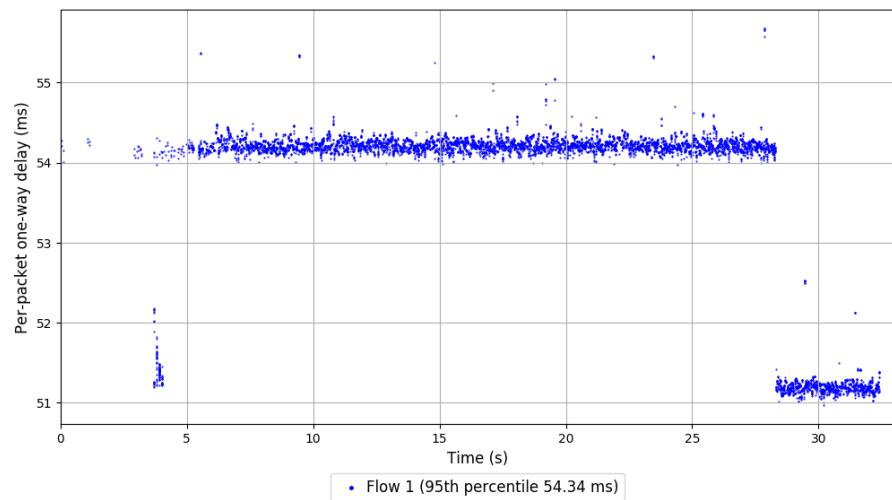
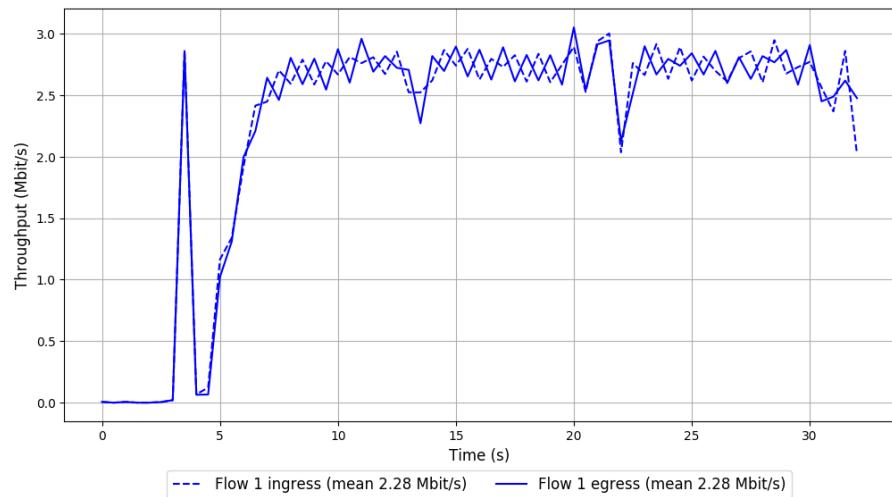
Run 2: Statistics of WebRTC media

Start at: 2018-01-09 03:02:22

End at: 2018-01-09 03:02:52

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.340 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.340 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

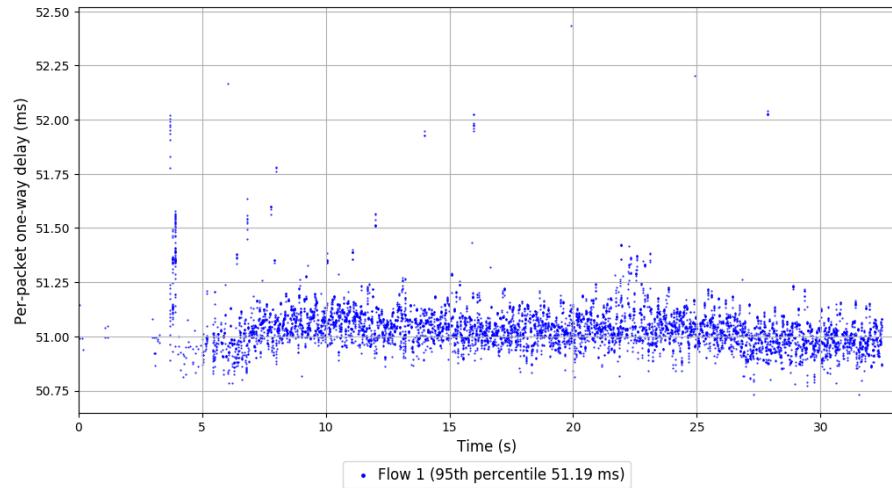
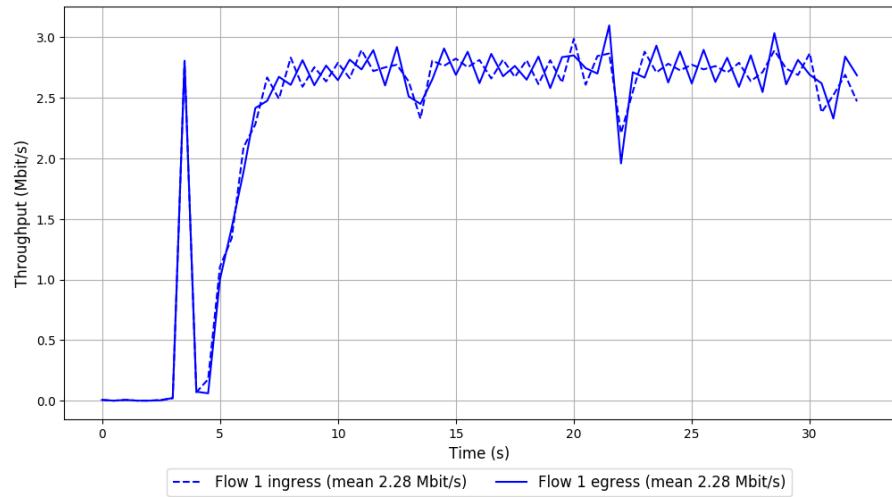


```
Run 3: Statistics of WebRTC media

Start at: 2018-01-09 03:13:43
End at: 2018-01-09 03:14:13

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.185 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

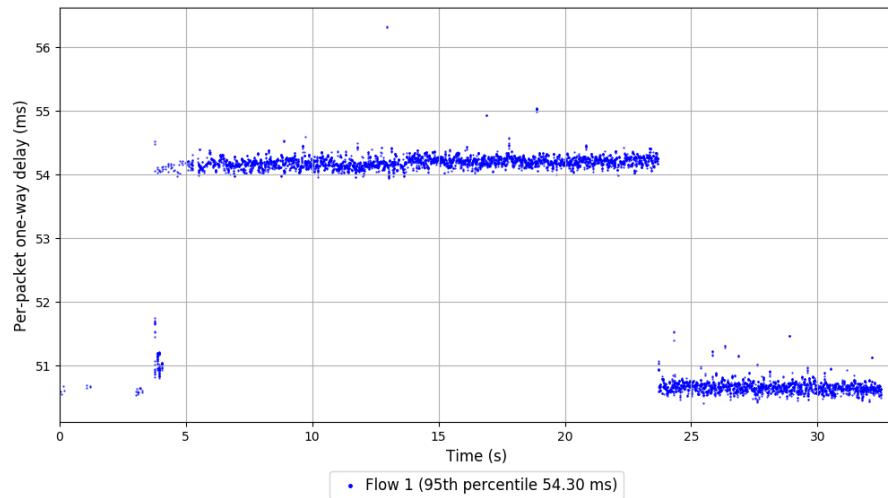
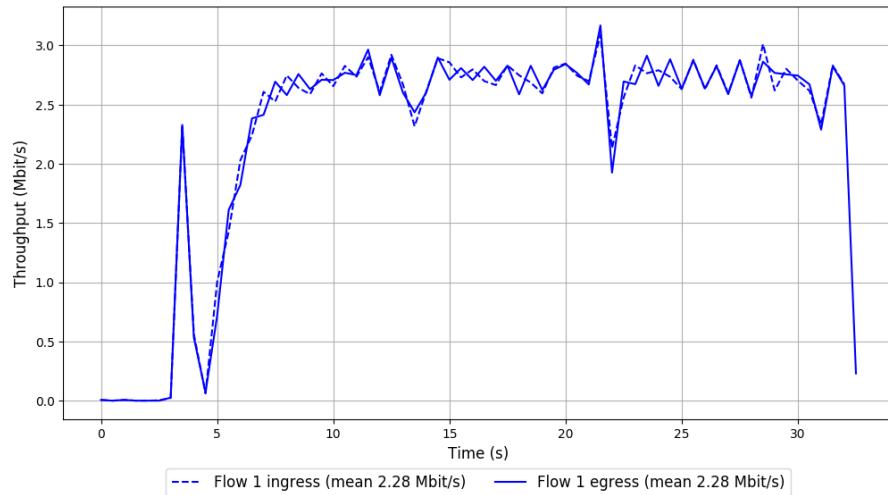


```
Run 4: Statistics of WebRTC media

Start at: 2018-01-09 03:25:07
End at: 2018-01-09 03:25:37

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.303 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.303 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

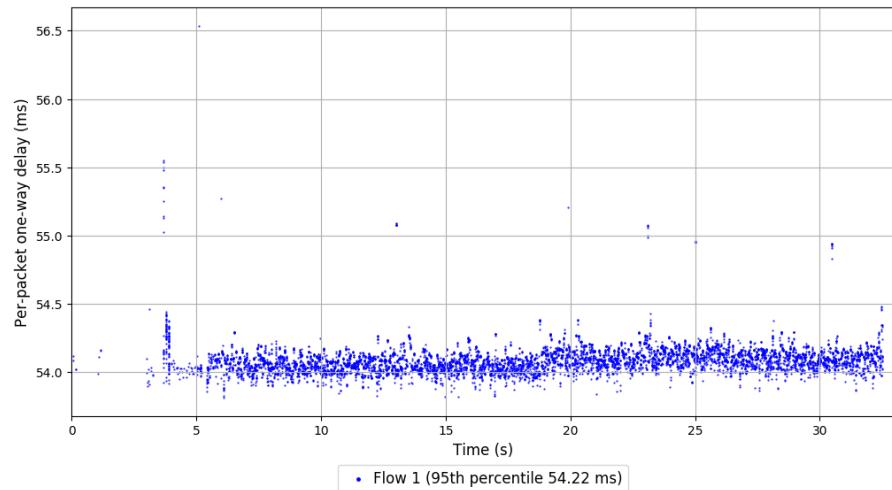
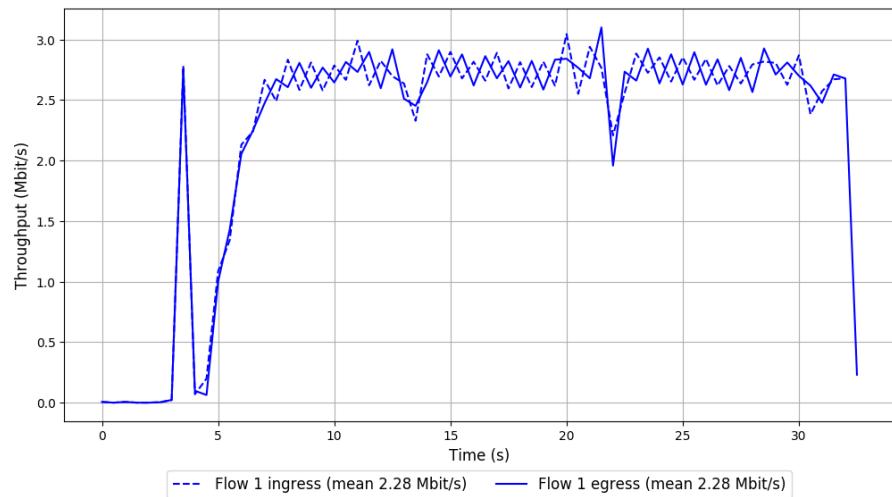


```
Run 5: Statistics of WebRTC media

Start at: 2018-01-09 03:36:18
End at: 2018-01-09 03:36:48

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.217 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.217 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

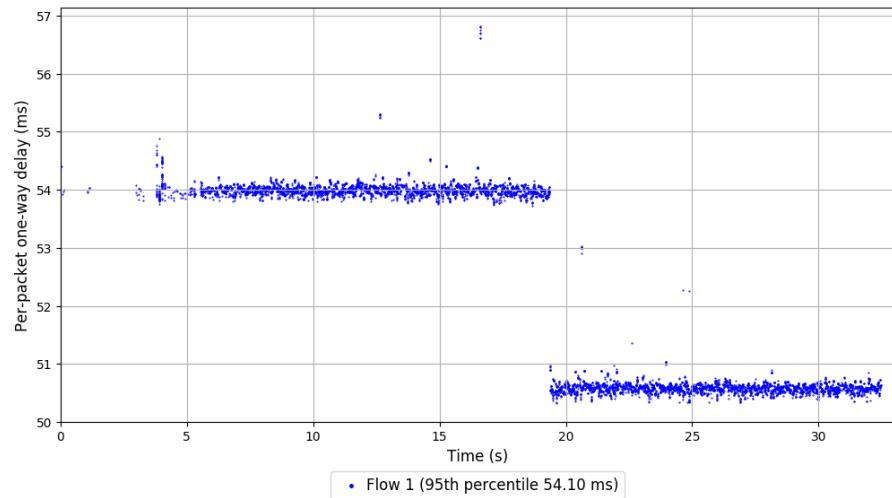
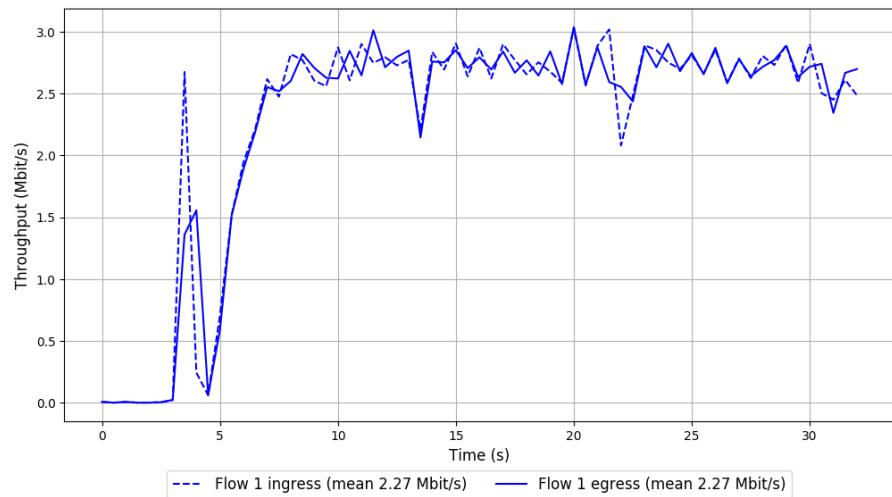


```
Run 6: Statistics of WebRTC media

Start at: 2018-01-09 03:47:31
End at: 2018-01-09 03:48:01

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 54.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 54.097 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

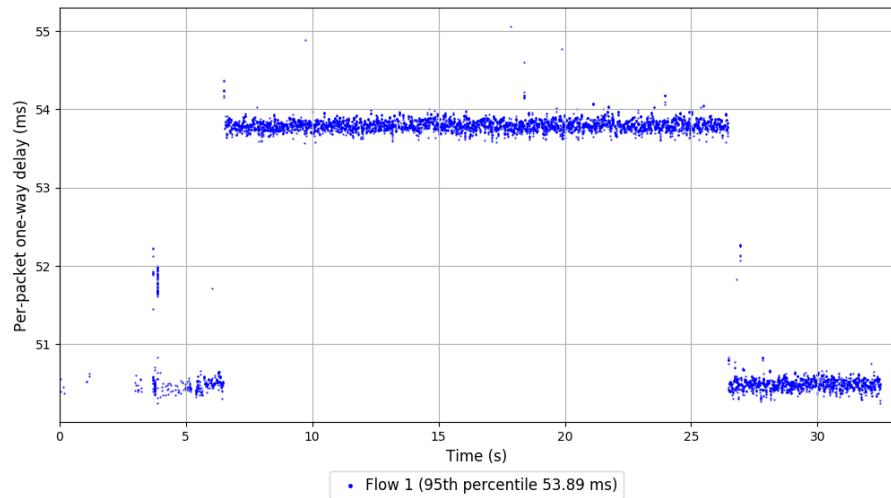
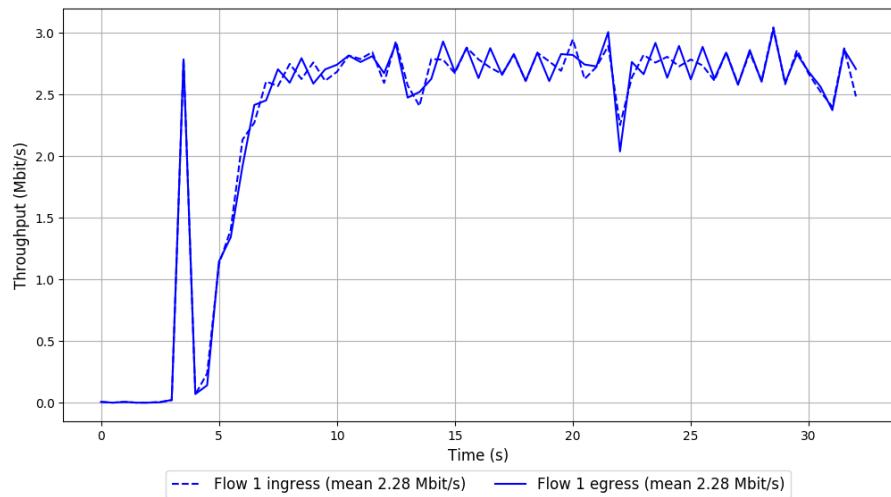


```
Run 7: Statistics of WebRTC media

Start at: 2018-01-09 03:58:31
End at: 2018-01-09 03:59:01

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 53.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 53.892 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

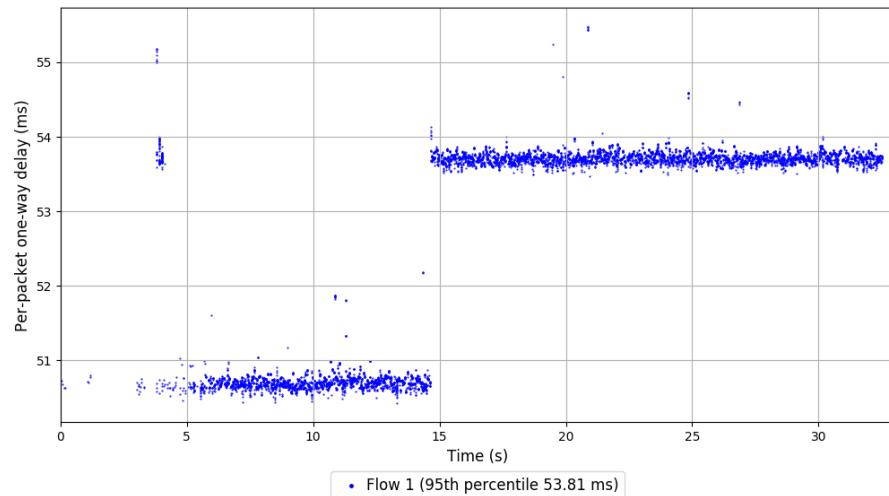
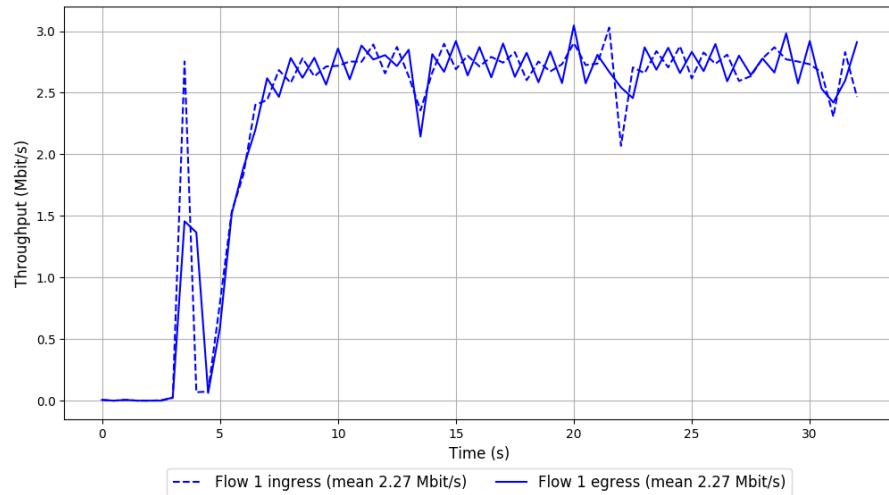


```
Run 8: Statistics of WebRTC media

Start at: 2018-01-09 04:09:53
End at: 2018-01-09 04:10:23

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 53.815 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 53.815 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

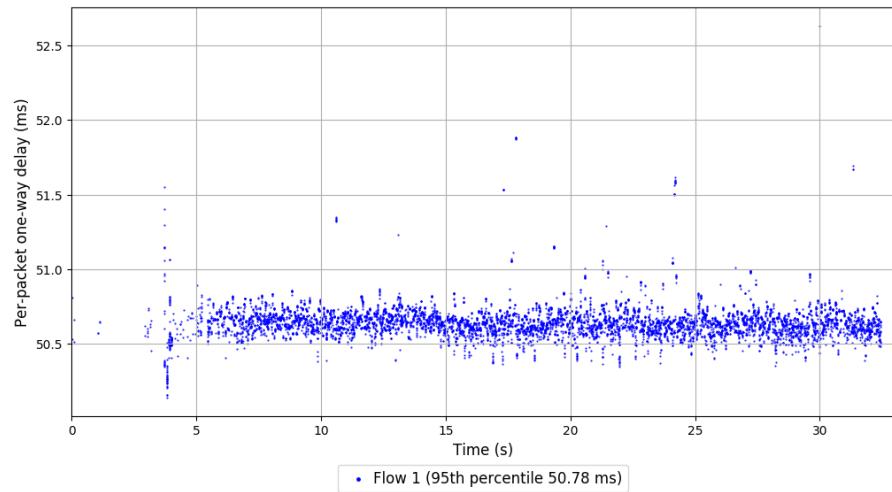
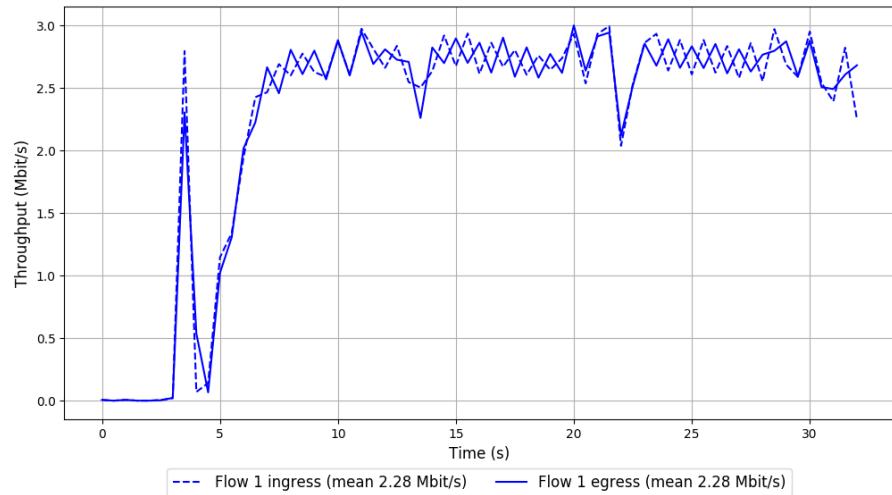


```
Run 9: Statistics of WebRTC media

Start at: 2018-01-09 04:21:18
End at: 2018-01-09 04:21:48

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.777 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.777 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link



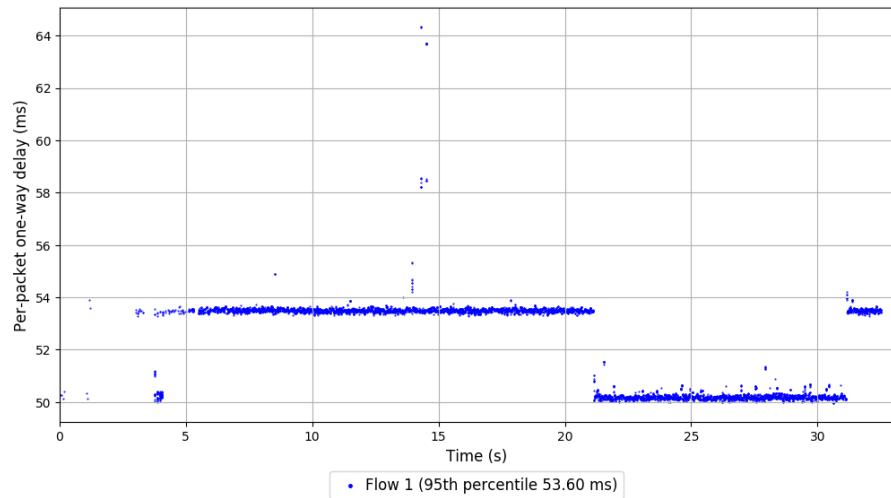
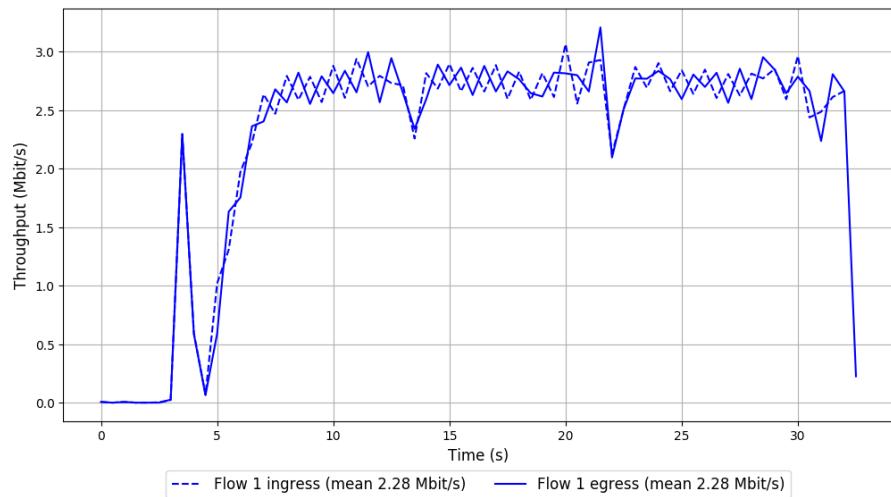
Run 10: Statistics of WebRTC media

Start at: 2018-01-09 04:32:59

End at: 2018-01-09 04:33:29

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 53.602 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 53.602 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link



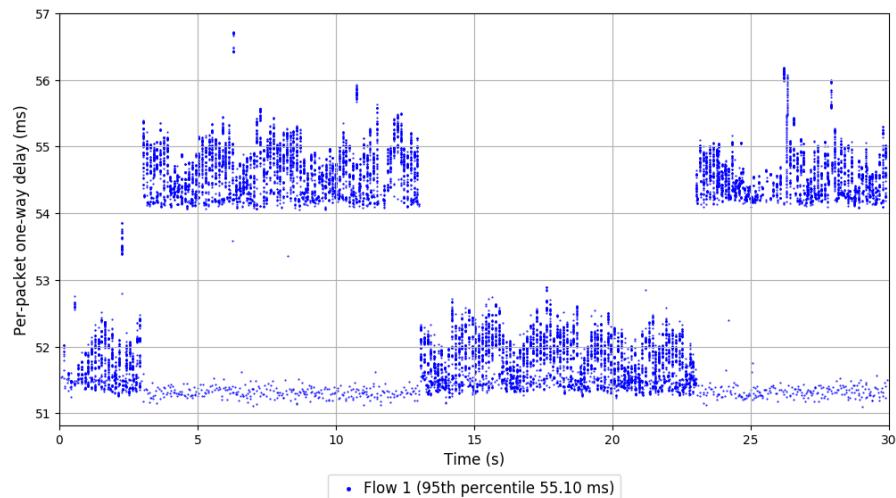
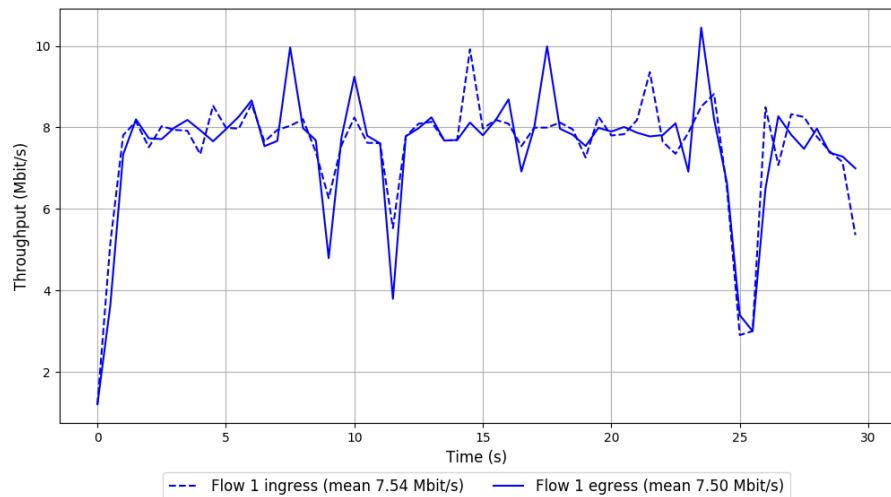
Run 1: Statistics of Sprout

Start at: 2018-01-09 02:47:45

End at: 2018-01-09 02:48:15

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.50 Mbit/s
95th percentile per-packet one-way delay: 55.103 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 7.50 Mbit/s
95th percentile per-packet one-way delay: 55.103 ms
Loss rate: 0.45%
```

Run 1: Report of Sprout — Data Link



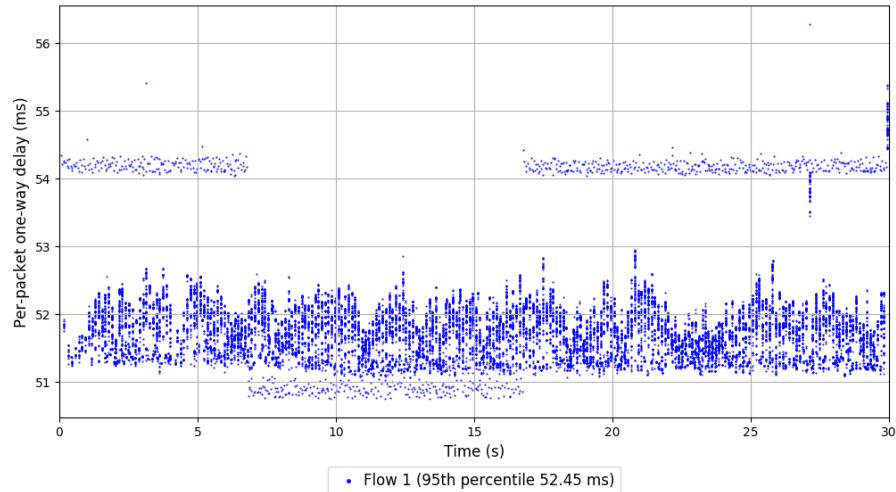
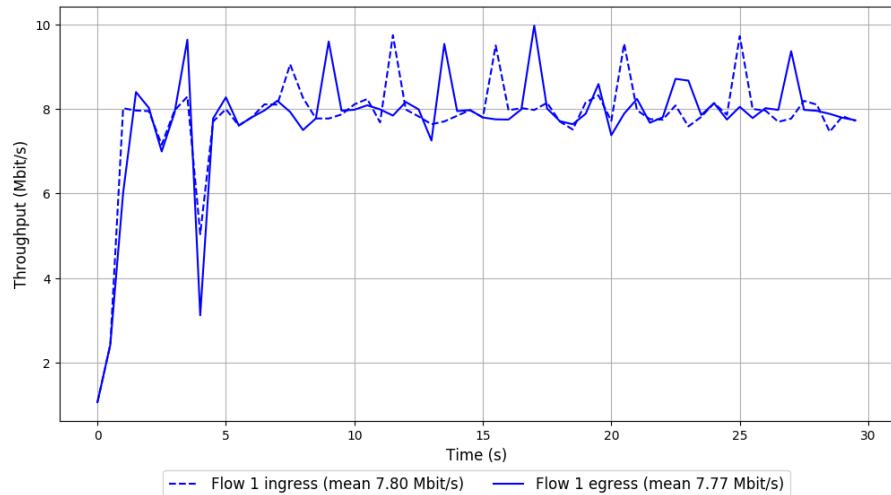
Run 2: Statistics of Sprout

Start at: 2018-01-09 02:59:08

End at: 2018-01-09 02:59:38

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 52.452 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 52.452 ms
Loss rate: 0.42%
```

## Run 2: Report of Sprout — Data Link



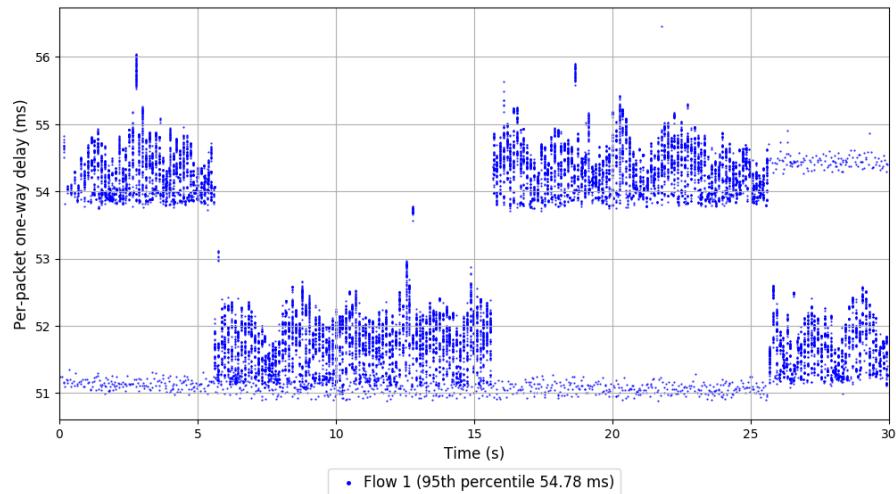
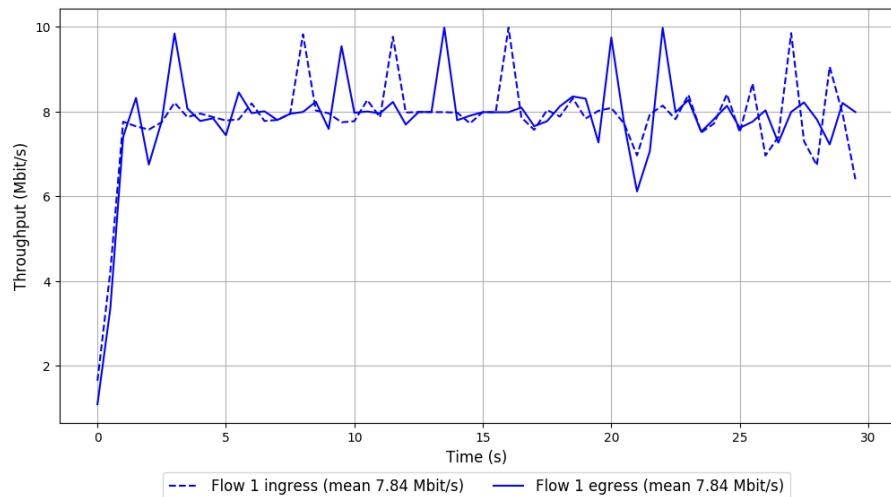
Run 3: Statistics of Sprout

Start at: 2018-01-09 03:10:32

End at: 2018-01-09 03:11:02

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 54.777 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 54.777 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link



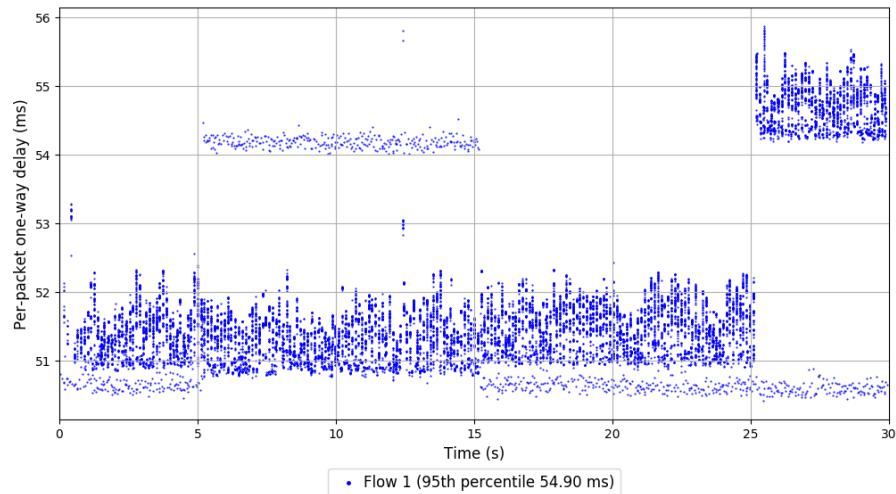
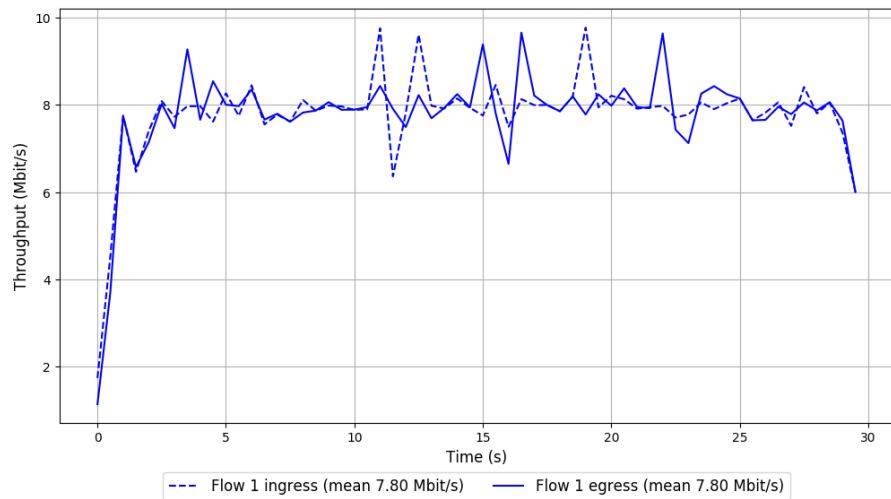
Run 4: Statistics of Sprout

Start at: 2018-01-09 03:21:53

End at: 2018-01-09 03:22:23

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 54.895 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 54.895 ms
Loss rate: 0.00%
```

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



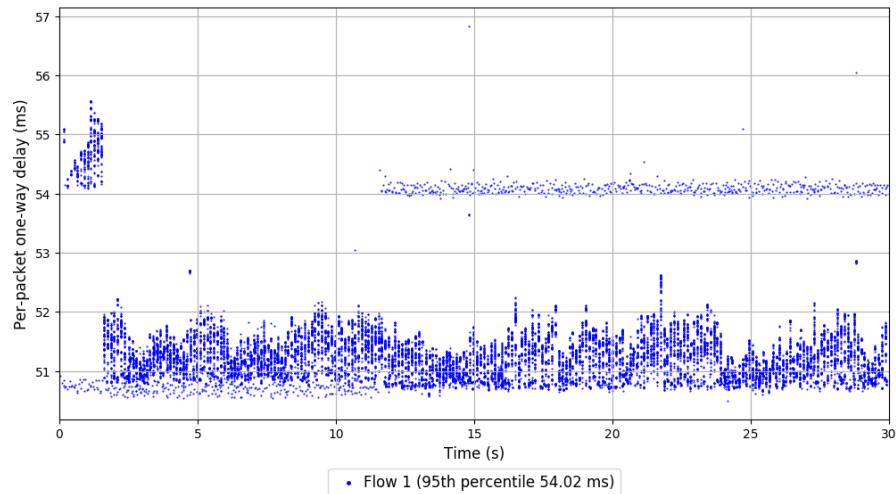
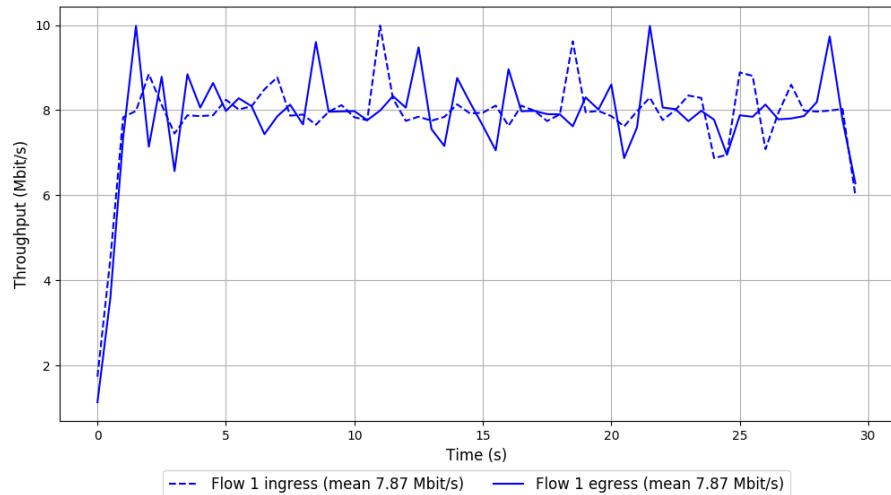
Run 5: Statistics of Sprout

Start at: 2018-01-09 03:33:06

End at: 2018-01-09 03:33:36

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 54.022 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 54.022 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



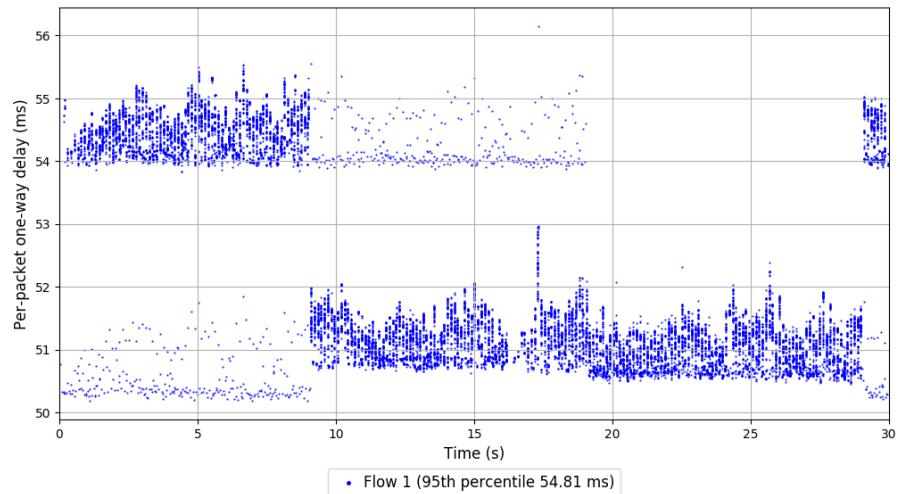
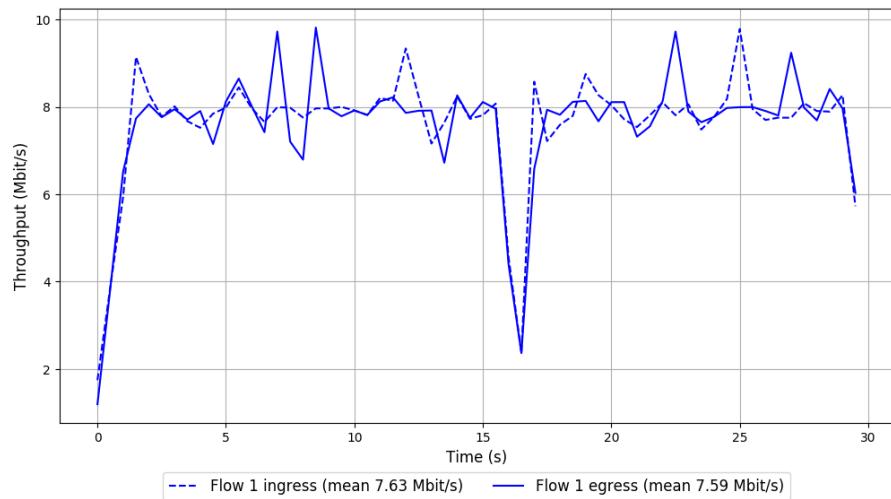
Run 6: Statistics of Sprout

Start at: 2018-01-09 03:44:19

End at: 2018-01-09 03:44:49

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 54.813 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 54.813 ms
Loss rate: 0.46%
```

## Run 6: Report of Sprout — Data Link



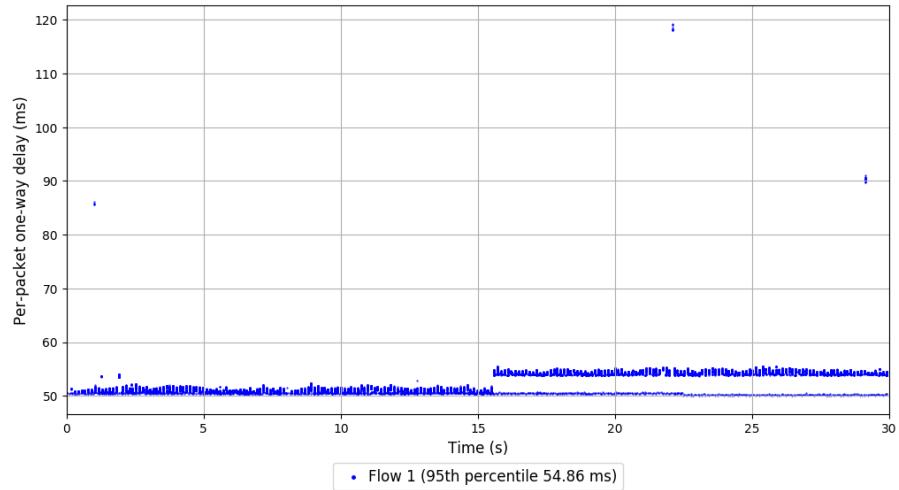
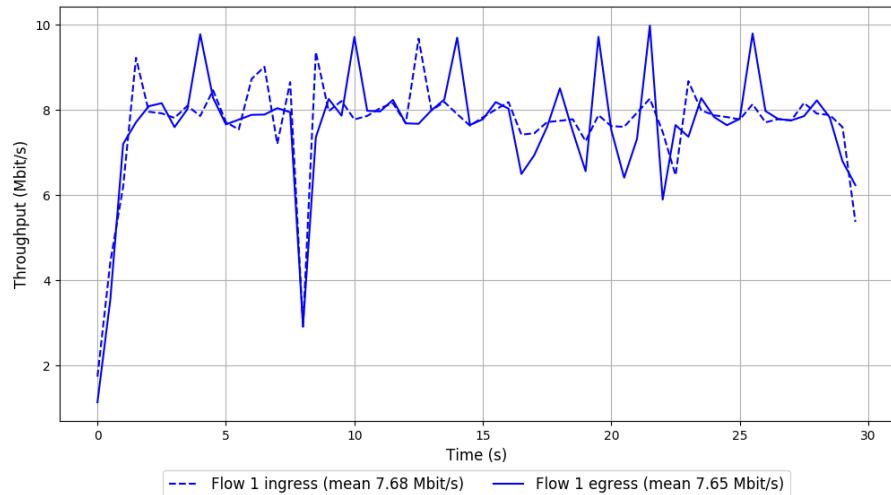
Run 7: Statistics of Sprout

Start at: 2018-01-09 03:55:32

End at: 2018-01-09 03:56:02

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 54.857 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 54.857 ms
Loss rate: 0.39%
```

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



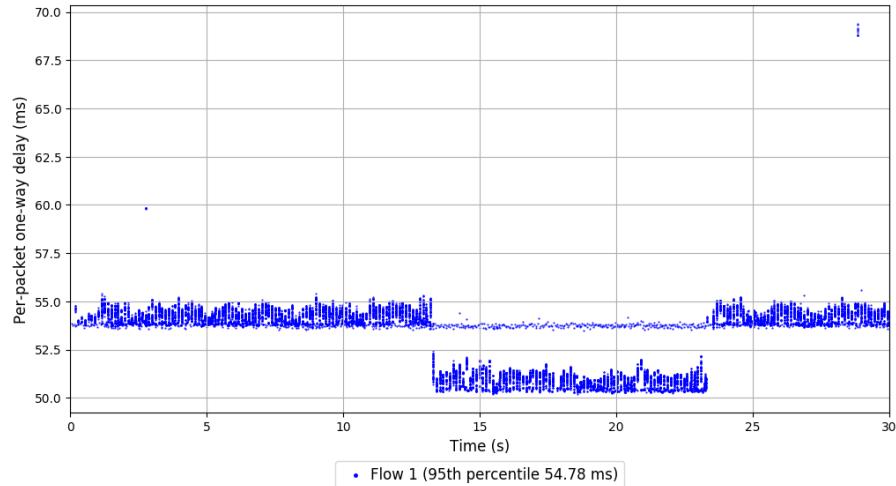
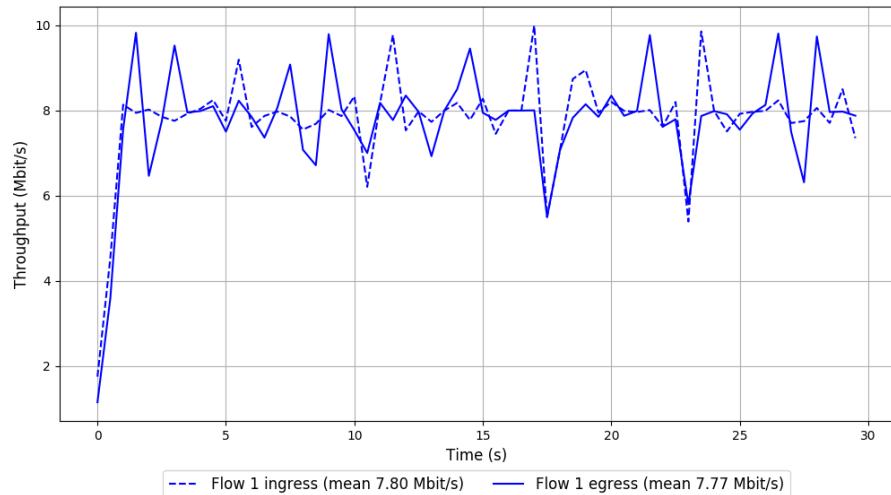
Run 8: Statistics of Sprout

Start at: 2018-01-09 04:06:44

End at: 2018-01-09 04:07:14

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 54.778 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 54.778 ms
Loss rate: 0.43%
```

### Run 8: Report of Sprout — Data Link



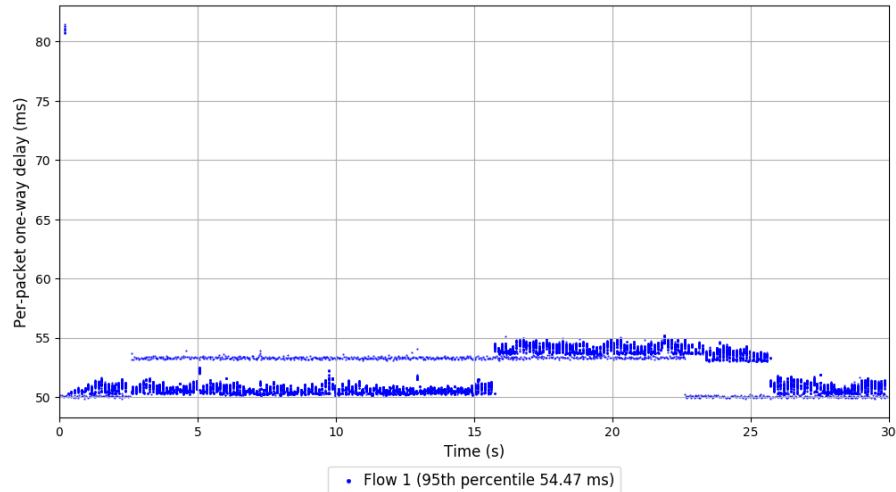
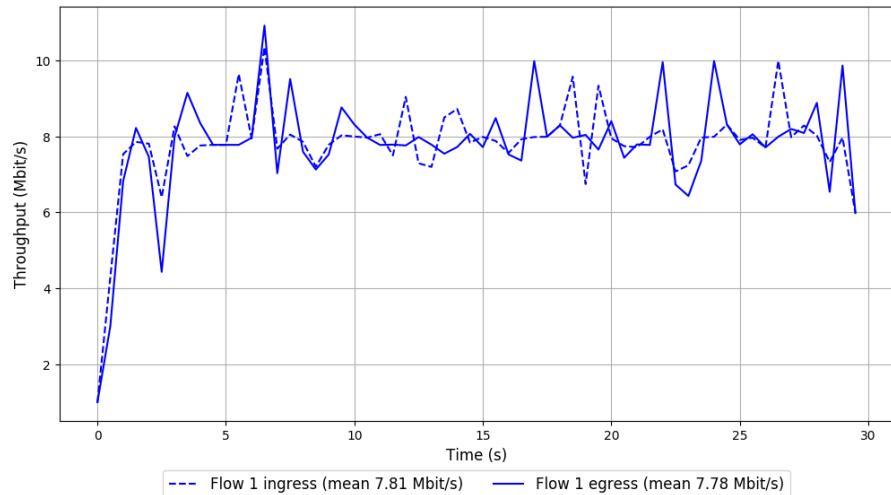
Run 9: Statistics of Sprout

Start at: 2018-01-09 04:18:02

End at: 2018-01-09 04:18:32

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 54.472 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 54.472 ms
Loss rate: 0.43%
```

Run 9: Report of Sprout — Data Link



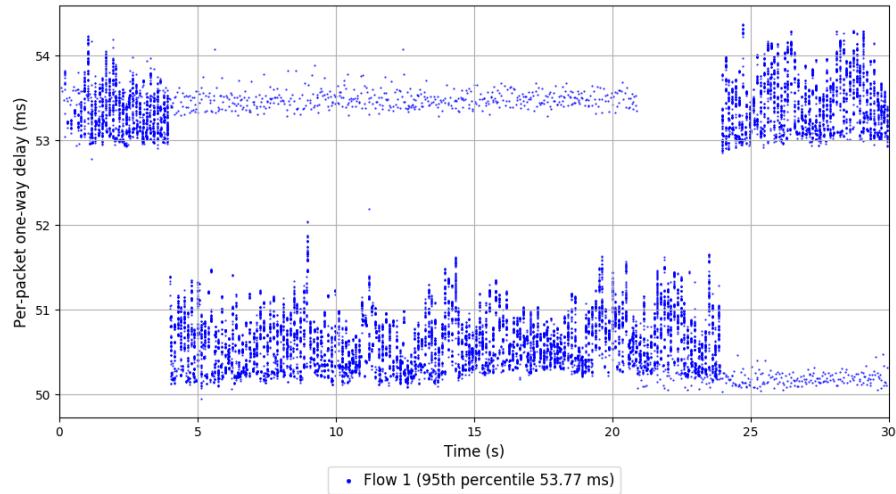
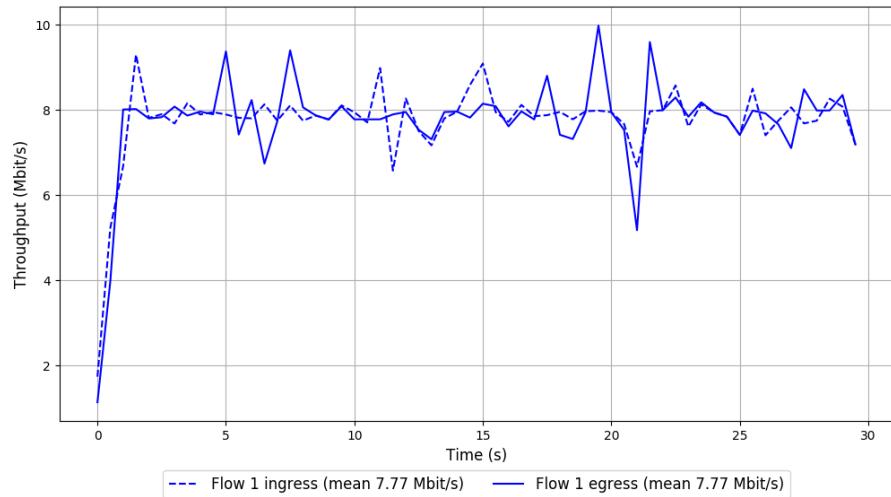
Run 10: Statistics of Sprout

Start at: 2018-01-09 04:29:44

End at: 2018-01-09 04:30:14

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 53.770 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 53.770 ms
Loss rate: 0.01%
```

Run 10: Report of Sprout — Data Link



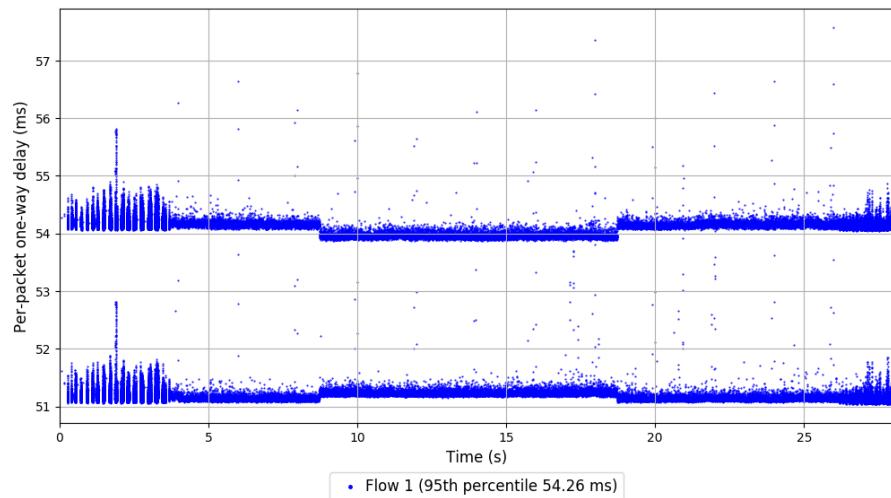
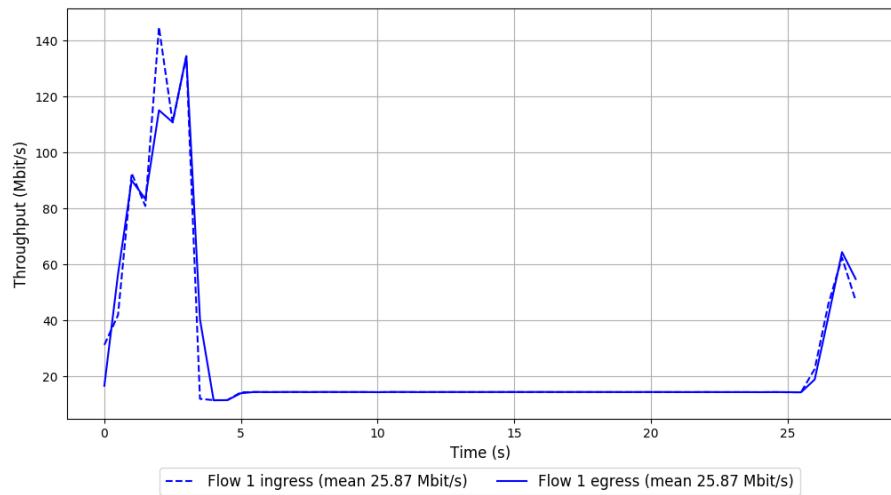
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-09 02:51:37

End at: 2018-01-09 02:52:07

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.87 Mbit/s
95th percentile per-packet one-way delay: 54.261 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 25.87 Mbit/s
95th percentile per-packet one-way delay: 54.261 ms
Loss rate: 0.00%
```

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



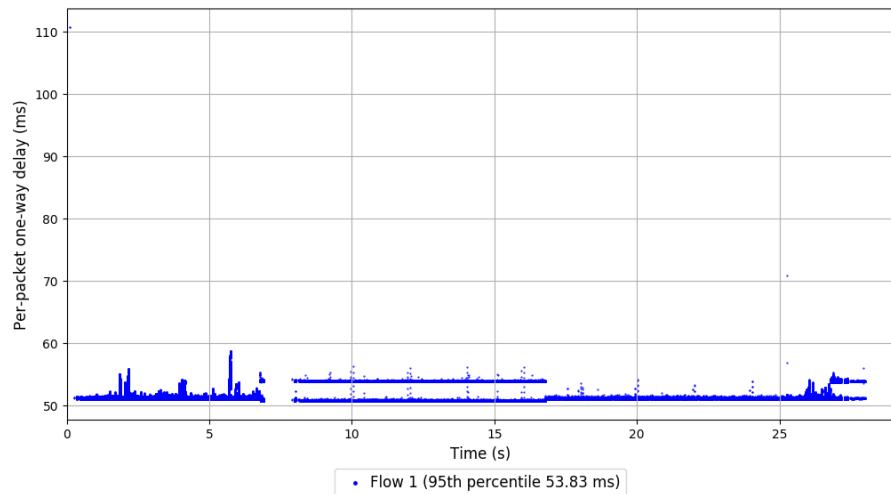
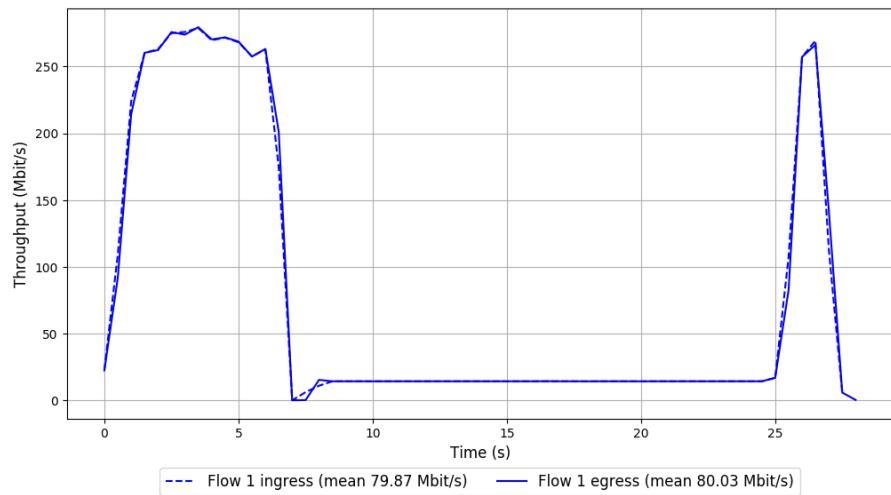
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-09 03:02:59

End at: 2018-01-09 03:03:29

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.03 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.03 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 0.00%
```

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



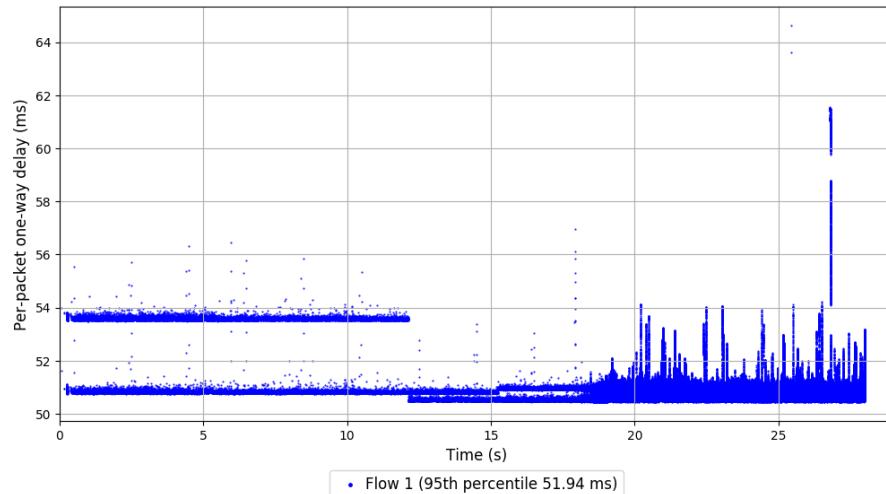
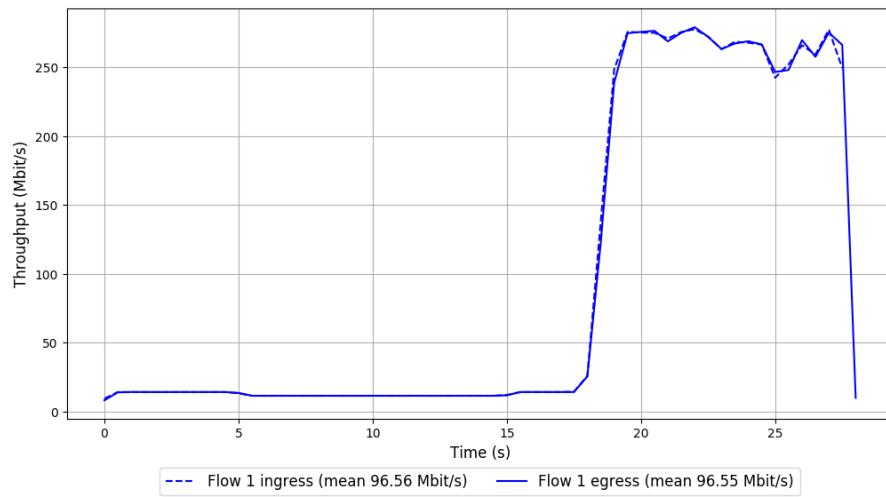
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-09 03:14:21

End at: 2018-01-09 03:14:51

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 51.942 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 51.942 ms
Loss rate: 0.01%
```

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



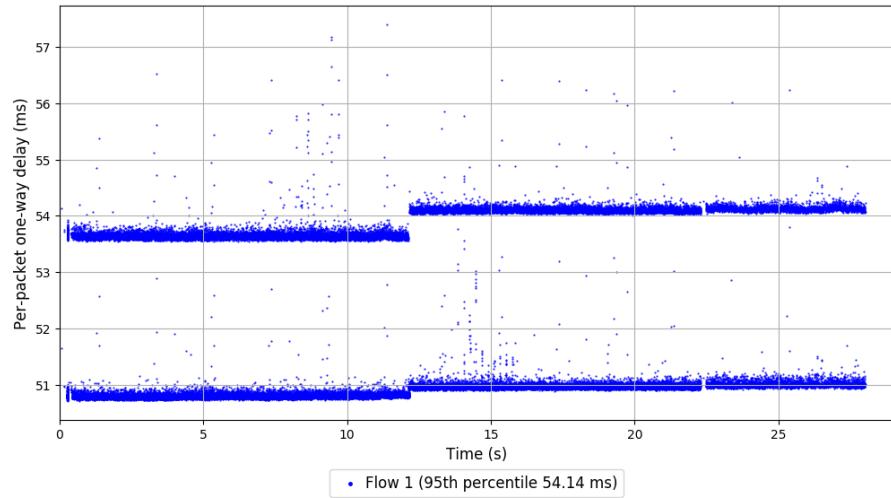
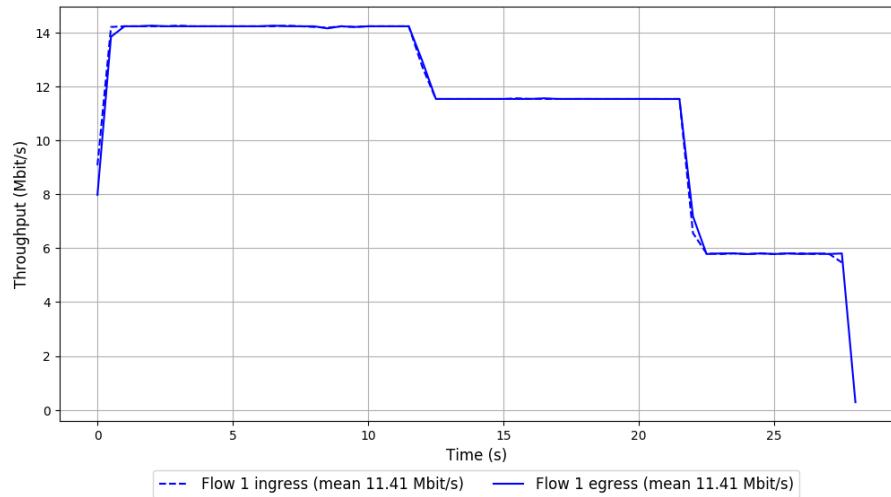
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-09 03:25:44

End at: 2018-01-09 03:26:14

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 54.143 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 54.143 ms
Loss rate: 0.00%
```

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

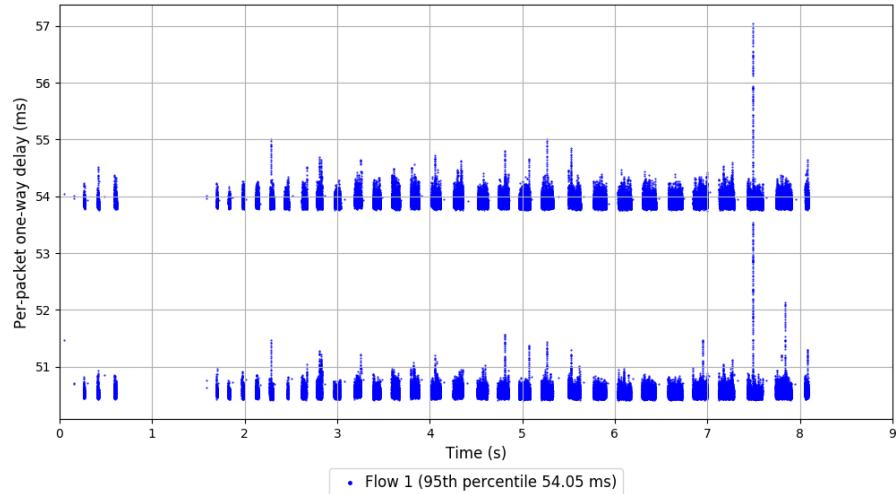
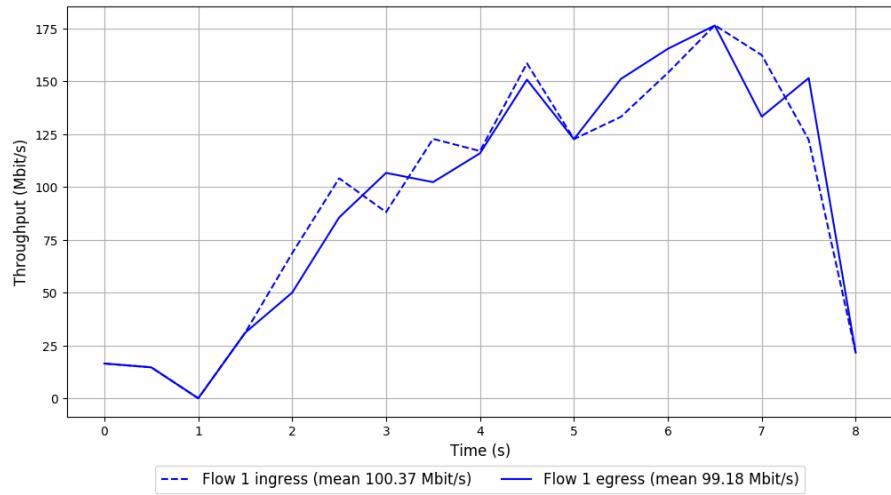


Run 5: Statistics of TaoVA-100x

Start at: 2018-01-09 03:36:56

End at: 2018-01-09 03:37:26

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



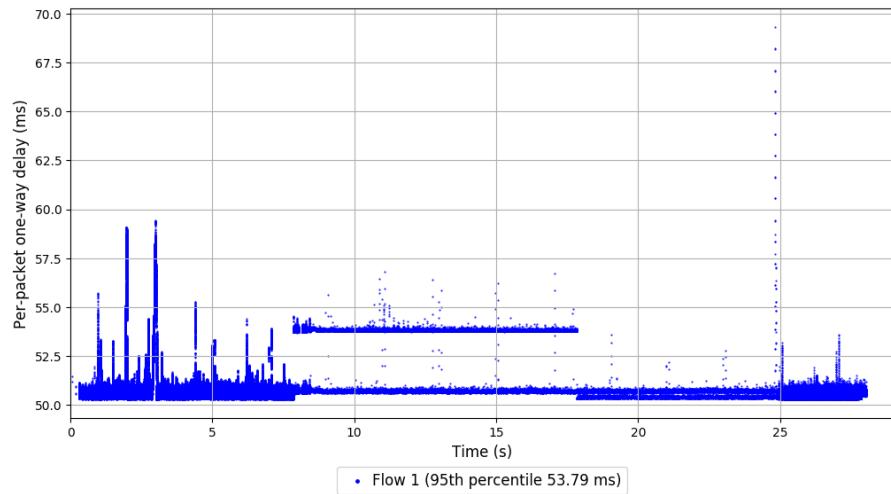
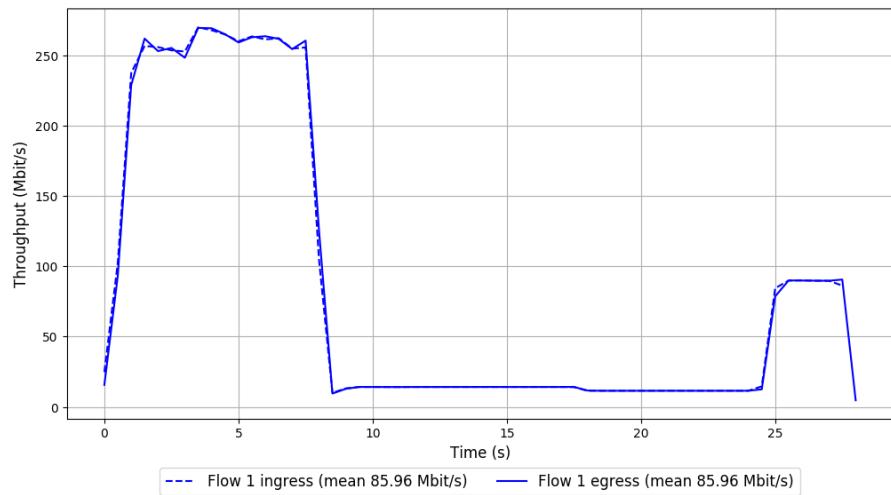
Run 6: Statistics of TaoVA-100x

Start at: 2018-01-09 03:48:08

End at: 2018-01-09 03:48:38

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.96 Mbit/s
95th percentile per-packet one-way delay: 53.789 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.96 Mbit/s
95th percentile per-packet one-way delay: 53.789 ms
Loss rate: 0.00%
```

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



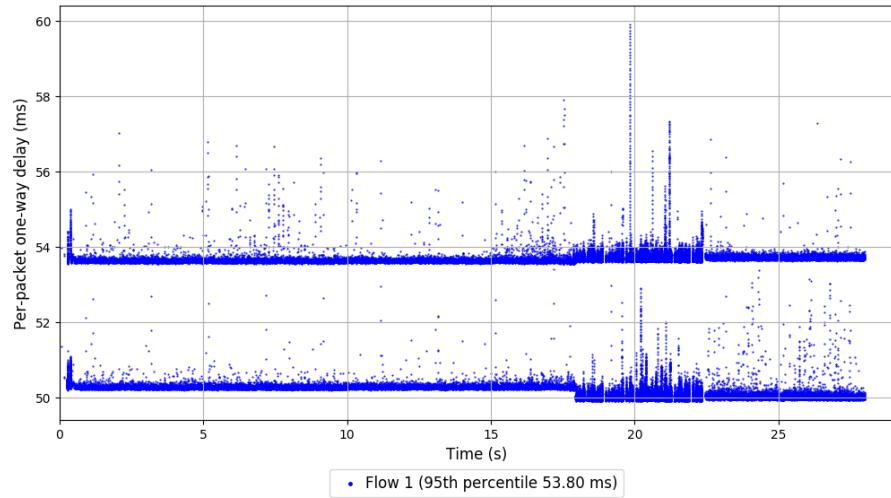
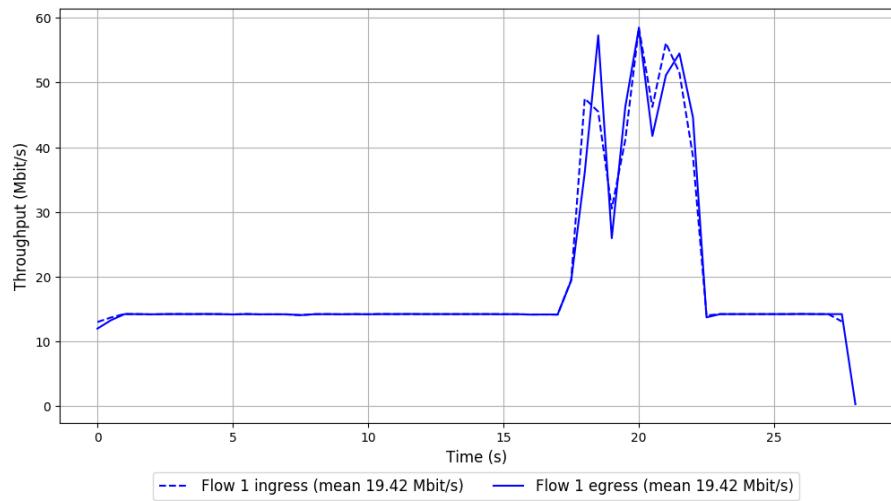
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-09 03:59:08

End at: 2018-01-09 03:59:38

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.42 Mbit/s
95th percentile per-packet one-way delay: 53.800 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 19.42 Mbit/s
95th percentile per-packet one-way delay: 53.800 ms
Loss rate: 0.01%
```

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



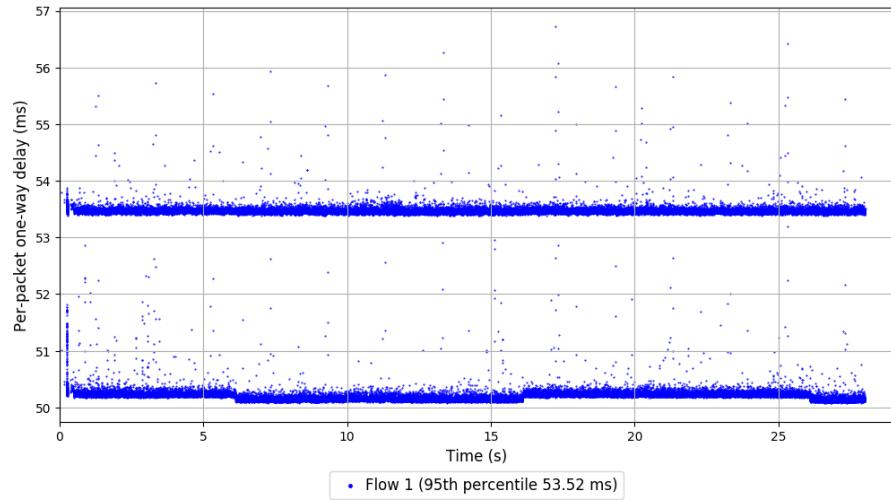
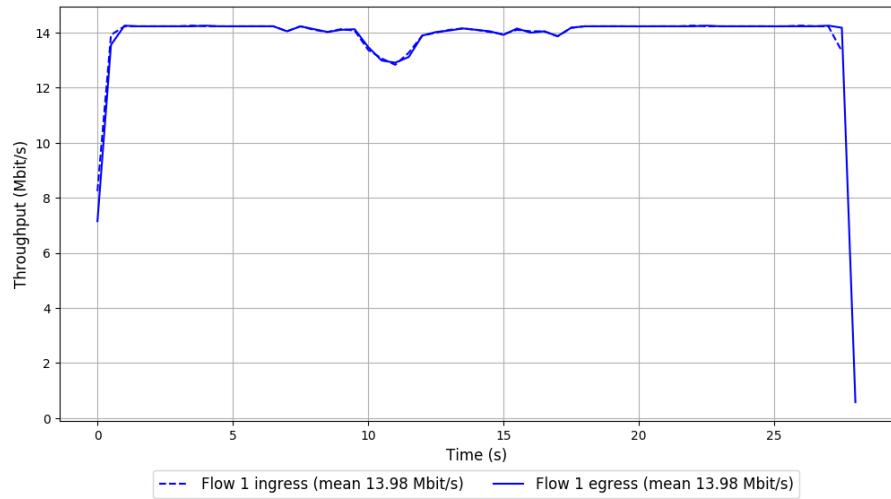
Run 8: Statistics of TaoVA-100x

Start at: 2018-01-09 04:10:30

End at: 2018-01-09 04:11:00

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 53.521 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 53.521 ms
Loss rate: 0.00%
```

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



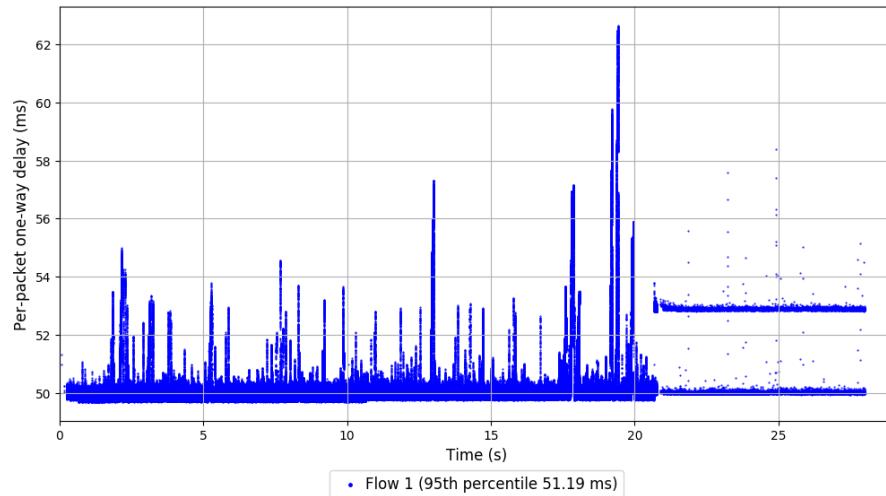
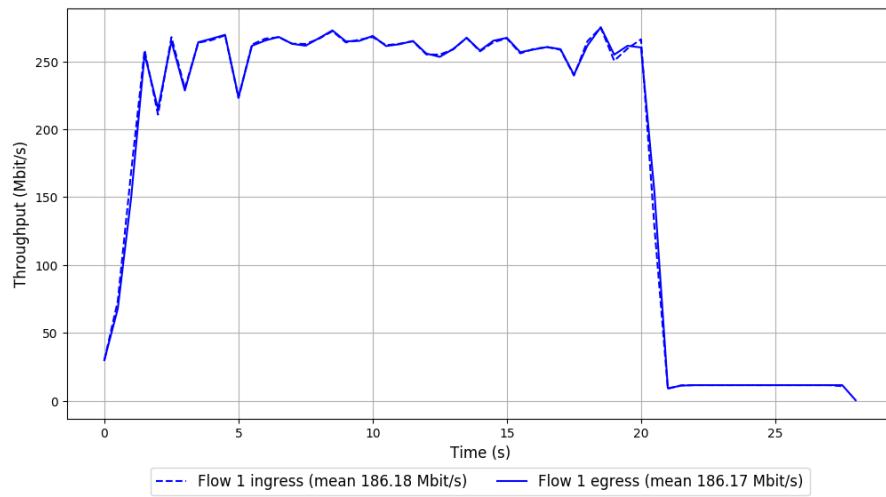
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-09 04:21:55

End at: 2018-01-09 04:22:25

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.17 Mbit/s
95th percentile per-packet one-way delay: 51.190 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 186.17 Mbit/s
95th percentile per-packet one-way delay: 51.190 ms
Loss rate: 0.01%
```

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



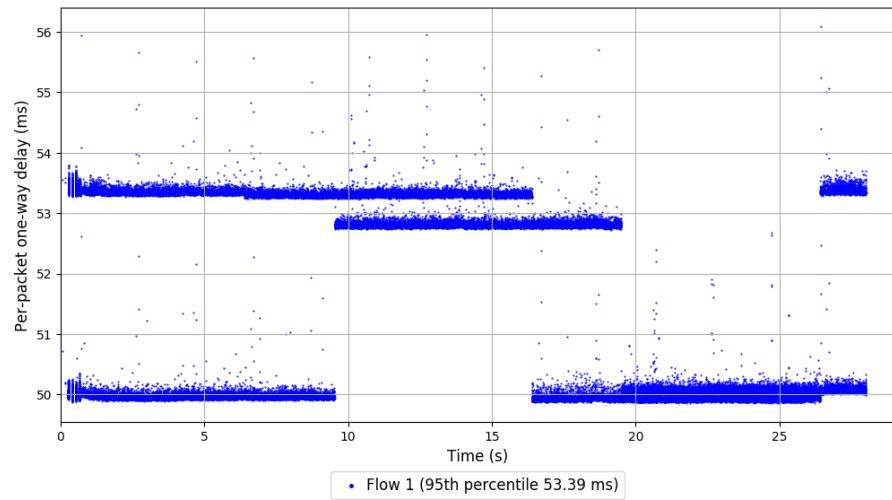
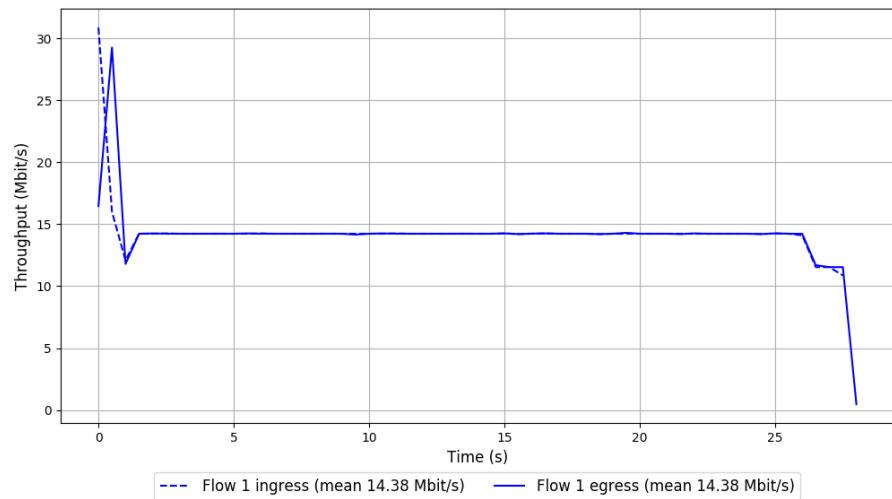
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-09 04:33:36

End at: 2018-01-09 04:34:06

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.38 Mbit/s
95th percentile per-packet one-way delay: 53.392 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.38 Mbit/s
95th percentile per-packet one-way delay: 53.392 ms
Loss rate: 0.00%
```

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



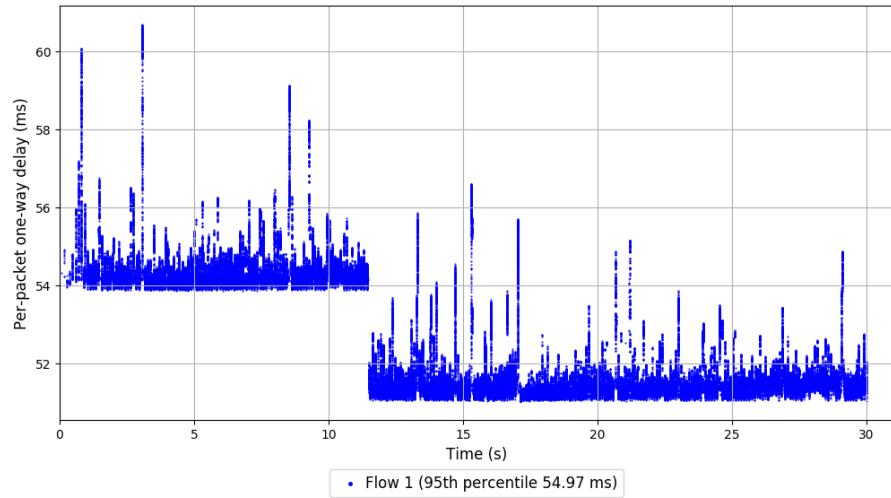
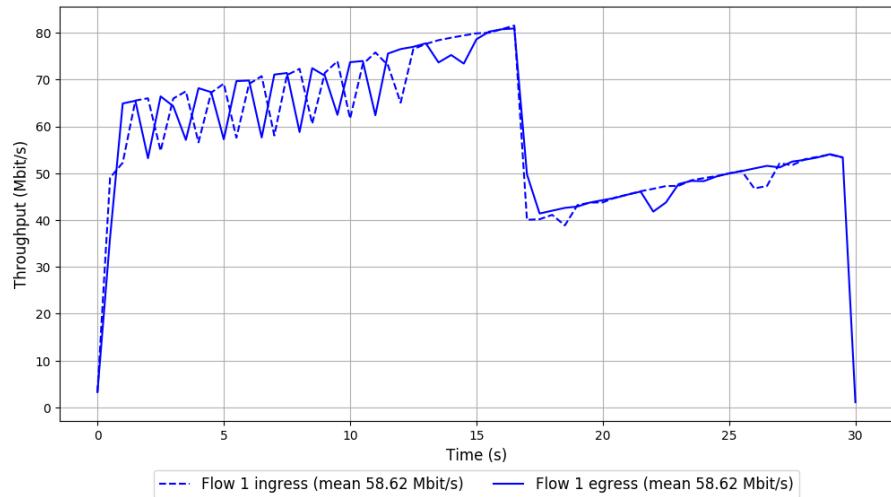
Run 1: Statistics of TCP Vegas

Start at: 2018-01-09 02:52:16

End at: 2018-01-09 02:52:46

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.62 Mbit/s
95th percentile per-packet one-way delay: 54.973 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.62 Mbit/s
95th percentile per-packet one-way delay: 54.973 ms
Loss rate: 0.00%
```

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



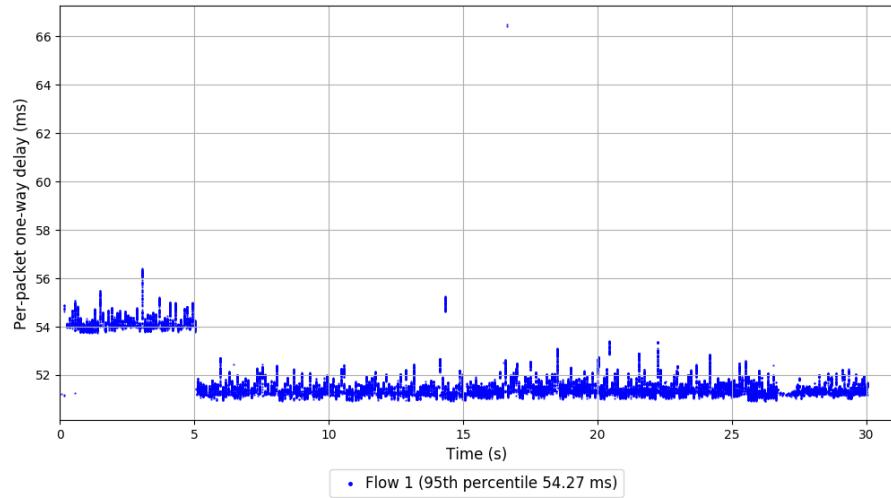
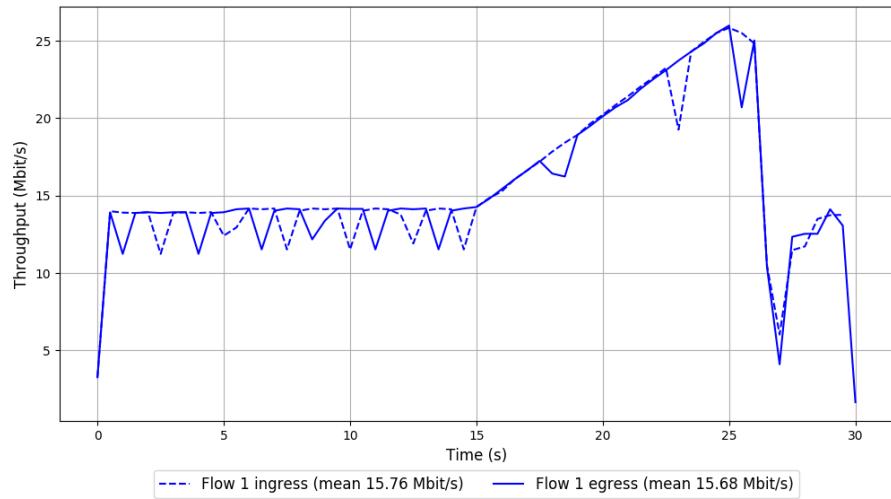
Run 2: Statistics of TCP Vegas

Start at: 2018-01-09 03:03:43

End at: 2018-01-09 03:04:13

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.68 Mbit/s
95th percentile per-packet one-way delay: 54.273 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 15.68 Mbit/s
95th percentile per-packet one-way delay: 54.273 ms
Loss rate: 0.49%
```

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

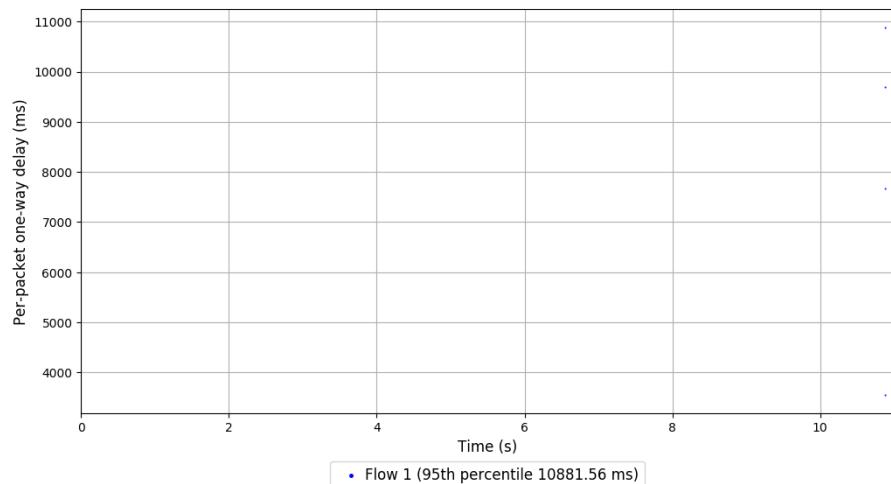
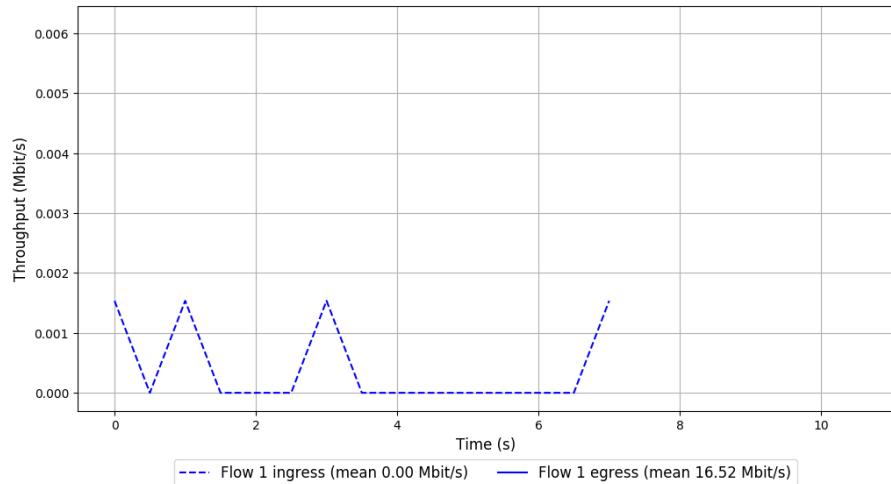


Run 3: Statistics of TCP Vegas

Start at: 2018-01-09 03:15:06

End at: 2018-01-09 03:15:36

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



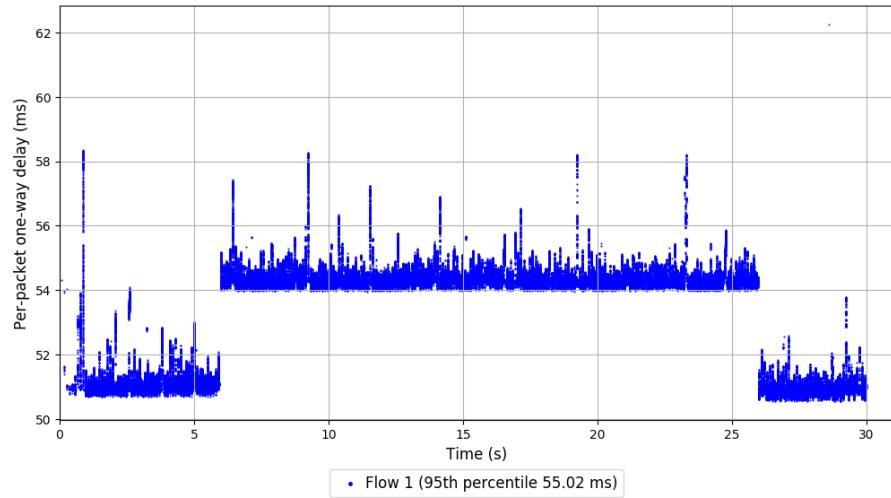
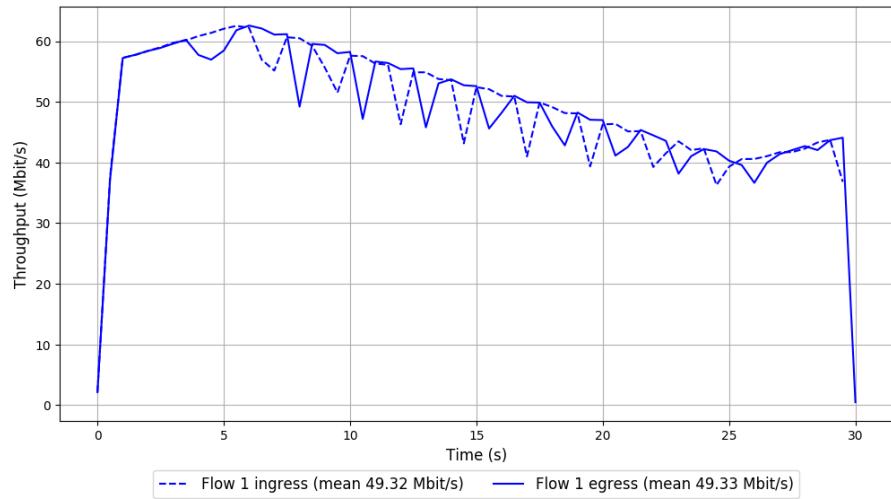
Run 4: Statistics of TCP Vegas

Start at: 2018-01-09 03:26:22

End at: 2018-01-09 03:26:52

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 55.017 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 55.017 ms
Loss rate: 0.00%
```

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



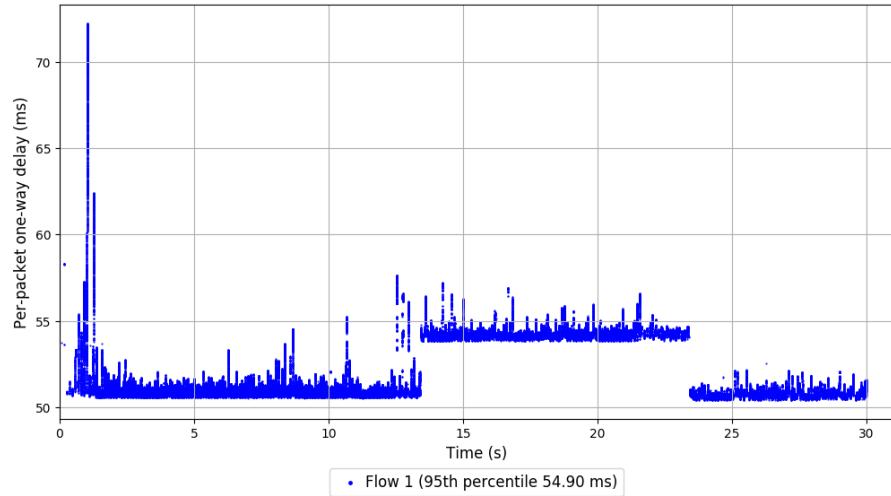
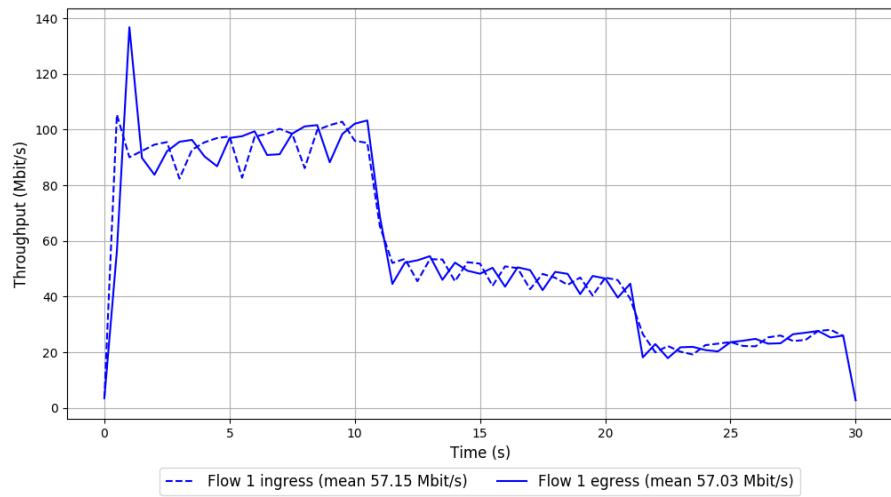
Run 5: Statistics of TCP Vegas

Start at: 2018-01-09 03:37:34

End at: 2018-01-09 03:38:04

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 54.899 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 54.899 ms
Loss rate: 0.22%
```

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

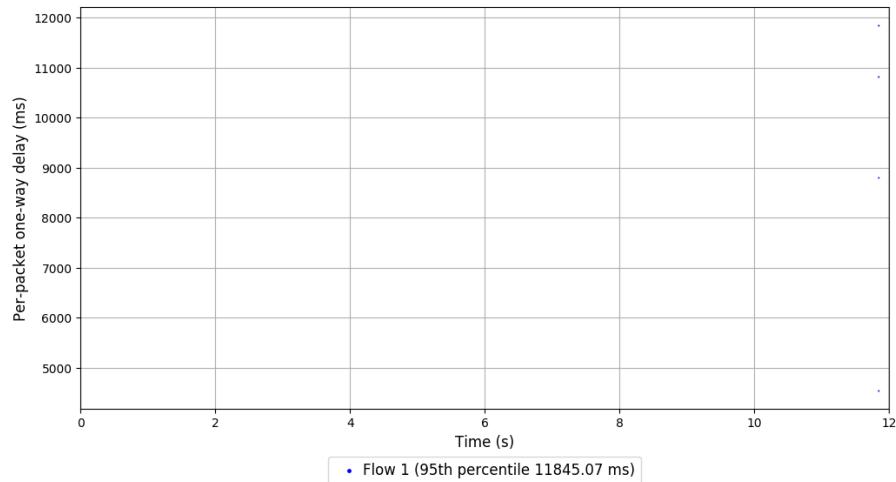
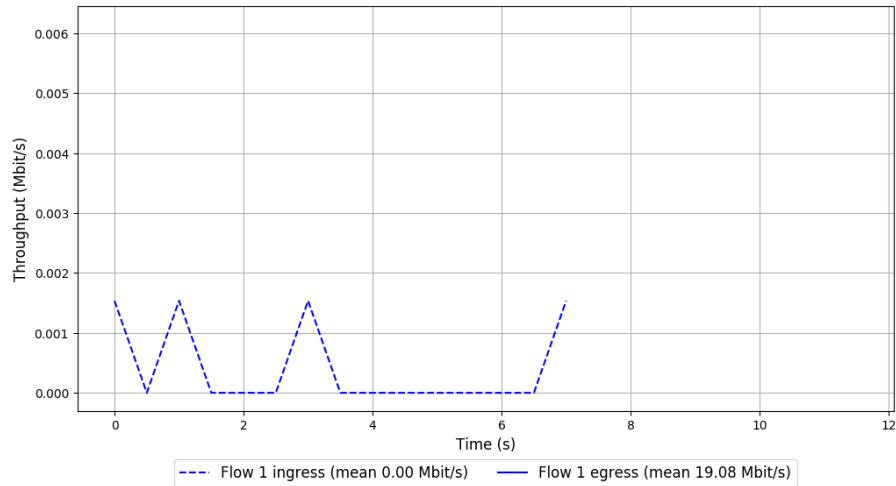


Run 6: Statistics of TCP Vegas

Start at: 2018-01-09 03:48:52

End at: 2018-01-09 03:49:22

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



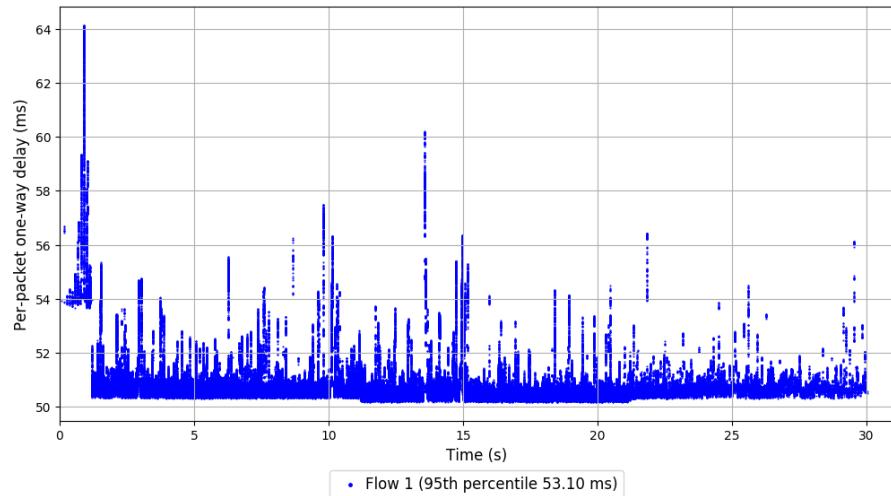
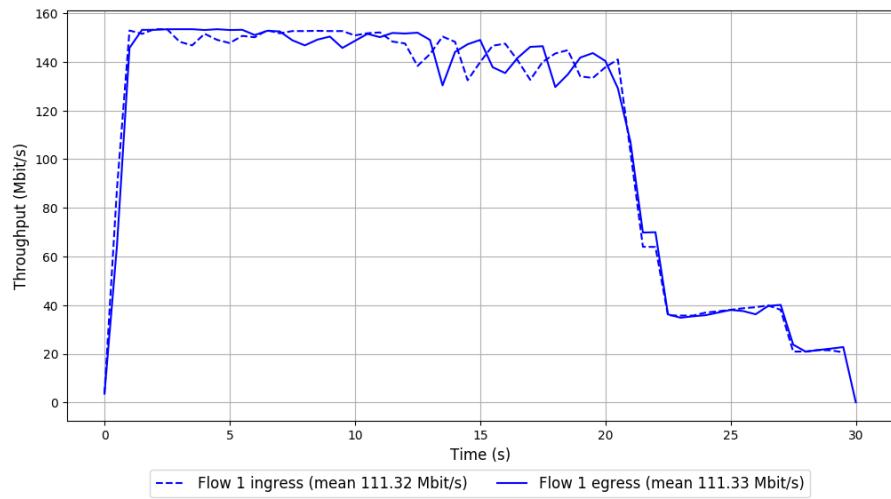
Run 7: Statistics of TCP Vegas

Start at: 2018-01-09 03:59:47

End at: 2018-01-09 04:00:17

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 111.33 Mbit/s
95th percentile per-packet one-way delay: 53.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 111.33 Mbit/s
95th percentile per-packet one-way delay: 53.098 ms
Loss rate: 0.00%
```

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



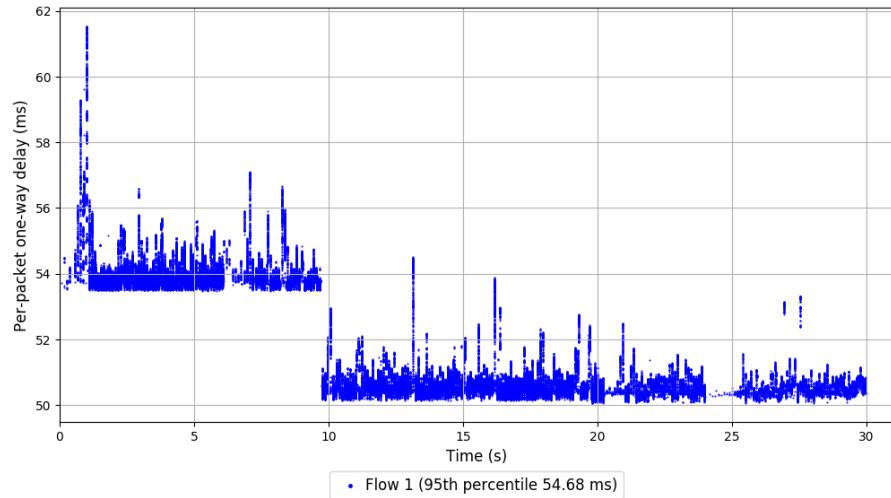
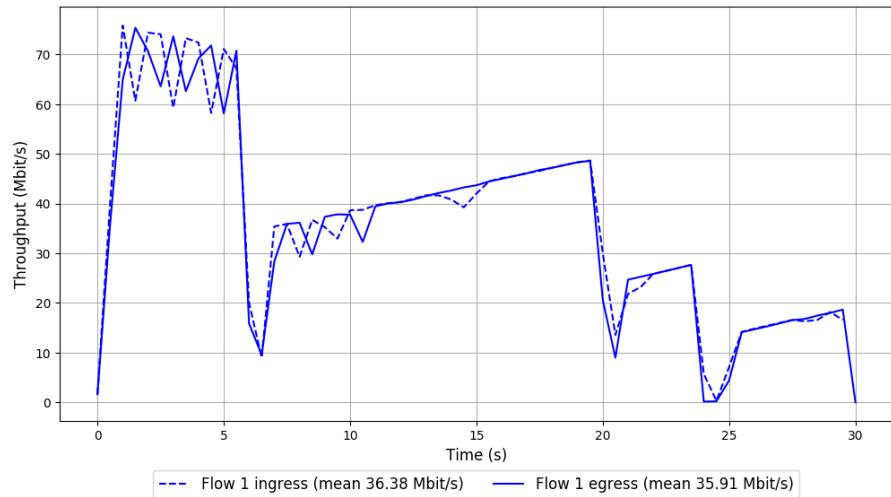
Run 8: Statistics of TCP Vegas

Start at: 2018-01-09 04:11:08

End at: 2018-01-09 04:11:38

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.91 Mbit/s
95th percentile per-packet one-way delay: 54.679 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 35.91 Mbit/s
95th percentile per-packet one-way delay: 54.679 ms
Loss rate: 1.31%
```

Run 8: Report of TCP Vegas — Data Link



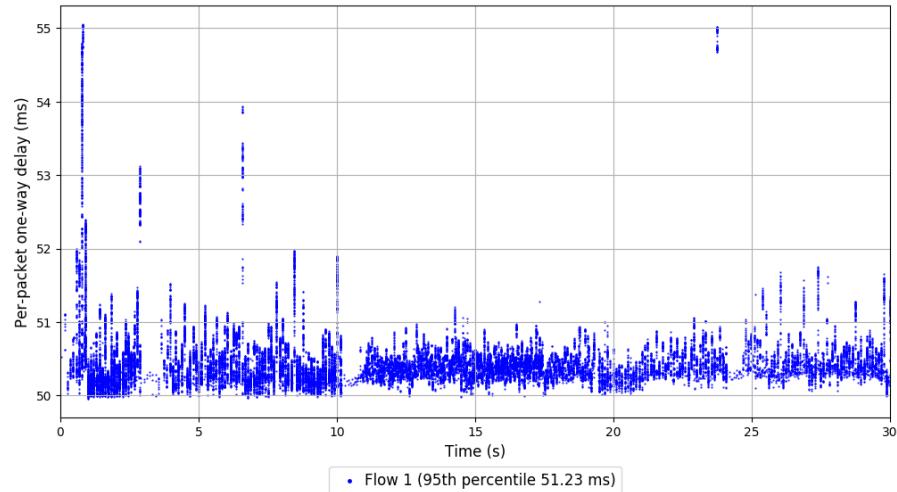
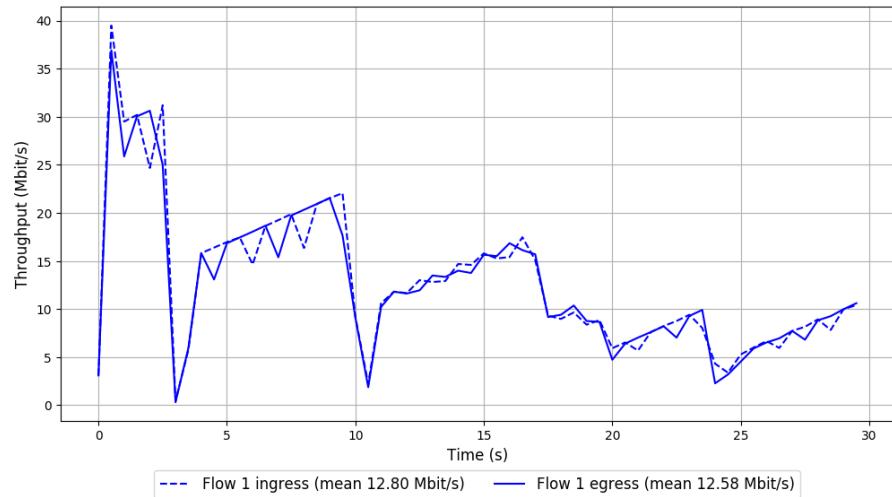
Run 9: Statistics of TCP Vegas

Start at: 2018-01-09 04:22:48

End at: 2018-01-09 04:23:18

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 51.233 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 51.233 ms
Loss rate: 1.73%
```

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



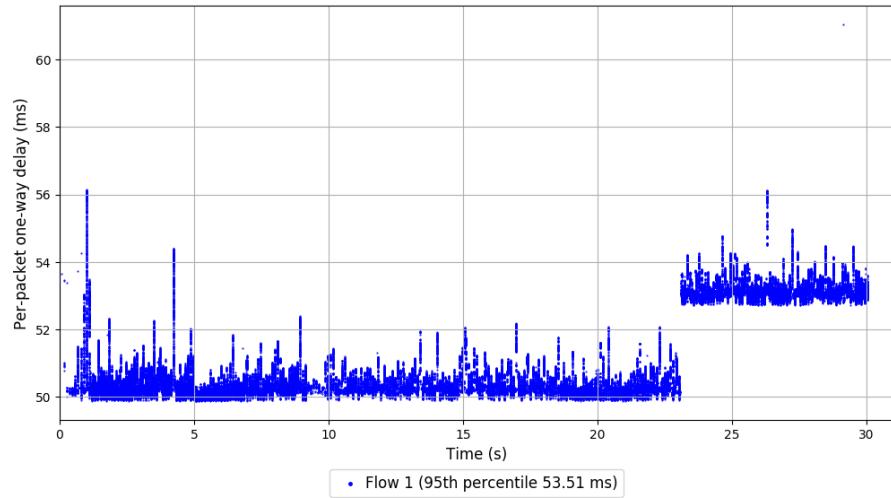
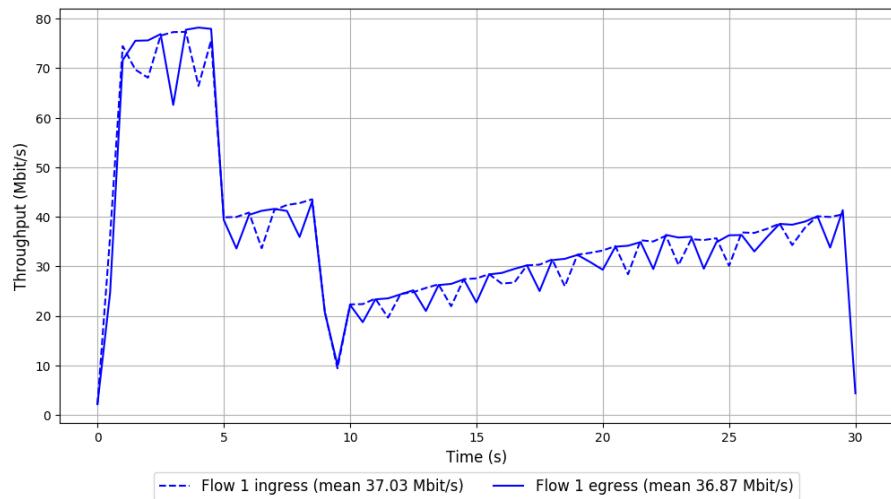
Run 10: Statistics of TCP Vegas

Start at: 2018-01-09 04:34:15

End at: 2018-01-09 04:34:45

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.87 Mbit/s
95th percentile per-packet one-way delay: 53.514 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 36.87 Mbit/s
95th percentile per-packet one-way delay: 53.514 ms
Loss rate: 0.45%
```

Run 10: Report of TCP Vegas — Data Link



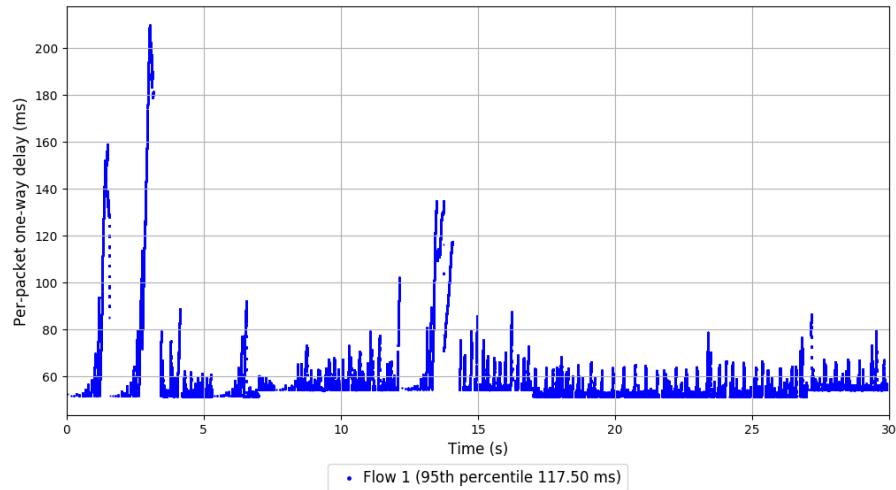
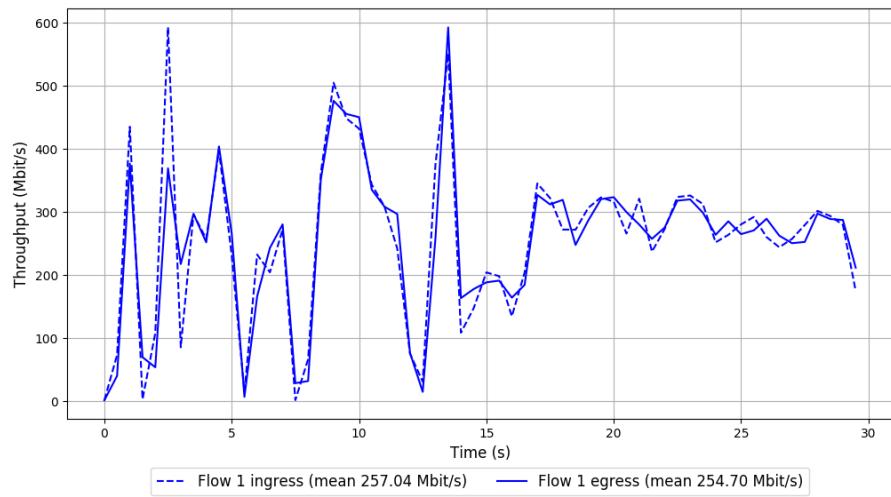
Run 1: Statistics of Verus

Start at: 2018-01-09 02:44:31

End at: 2018-01-09 02:45:01

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.70 Mbit/s
95th percentile per-packet one-way delay: 117.501 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 254.70 Mbit/s
95th percentile per-packet one-way delay: 117.501 ms
Loss rate: 0.91%
```

Run 1: Report of Verus — Data Link

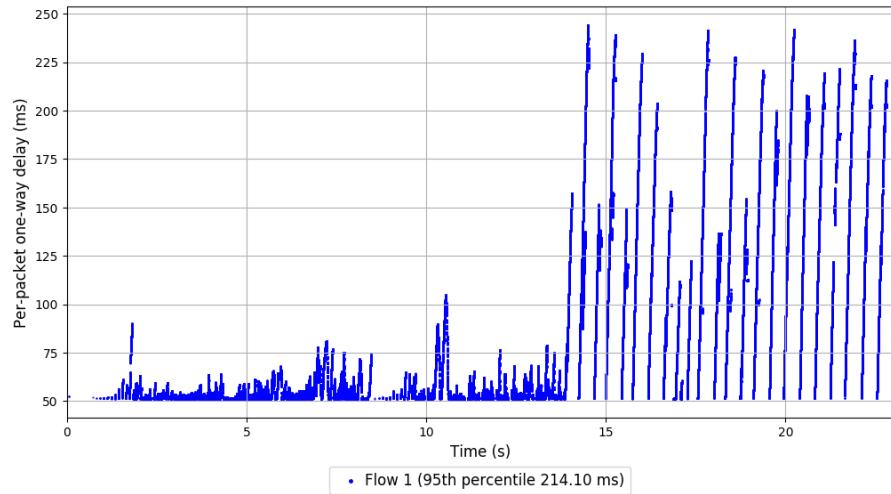
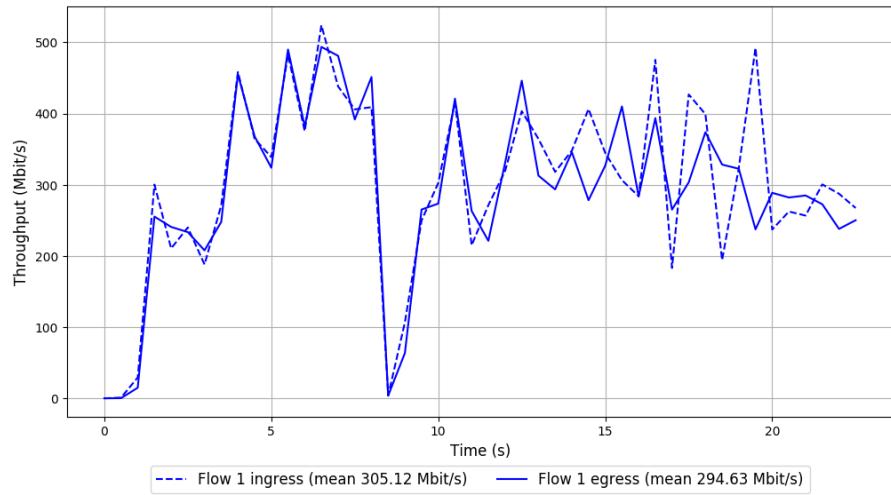


Run 2: Statistics of Verus

Start at: 2018-01-09 02:55:56

End at: 2018-01-09 02:56:26

## Run 2: Report of Verus — Data Link



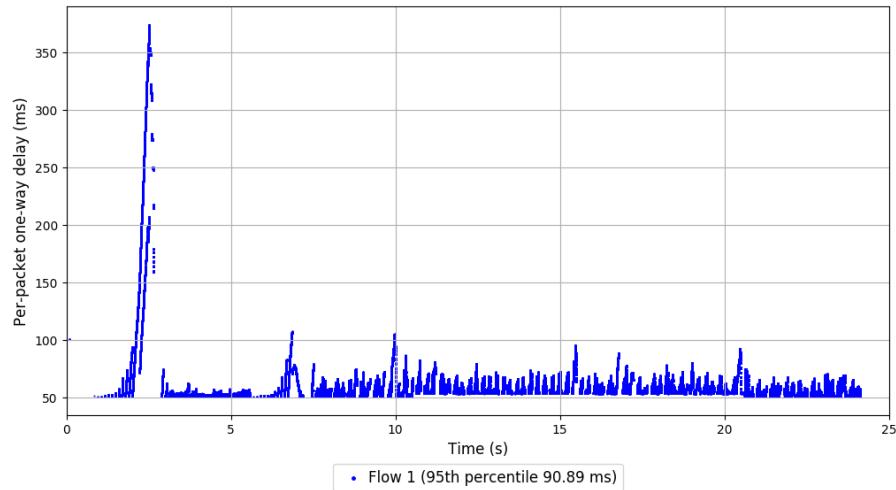
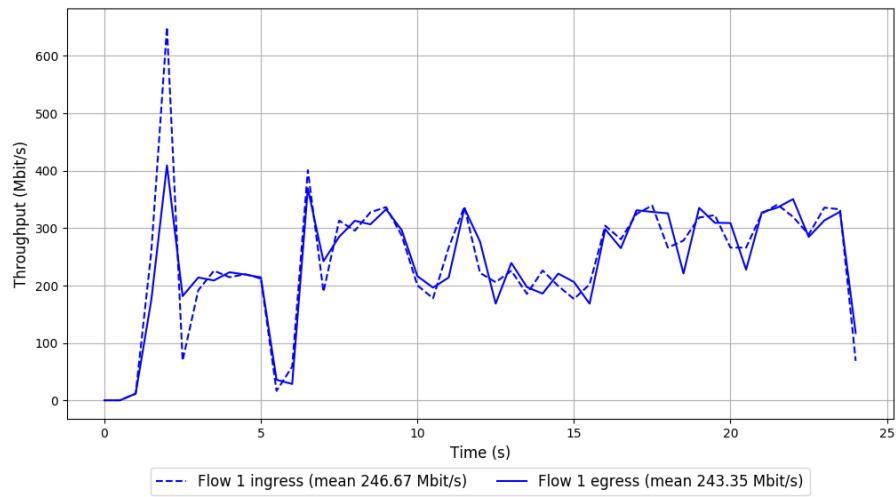
Run 3: Statistics of Verus

Start at: 2018-01-09 03:07:21

End at: 2018-01-09 03:07:51

```
# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.35 Mbit/s
95th percentile per-packet one-way delay: 90.886 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 243.35 Mbit/s
95th percentile per-packet one-way delay: 90.886 ms
Loss rate: 1.54%
```

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



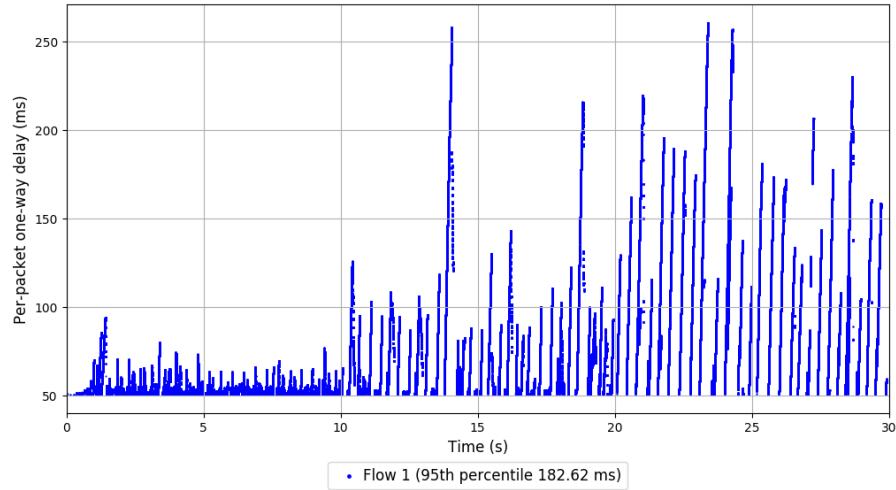
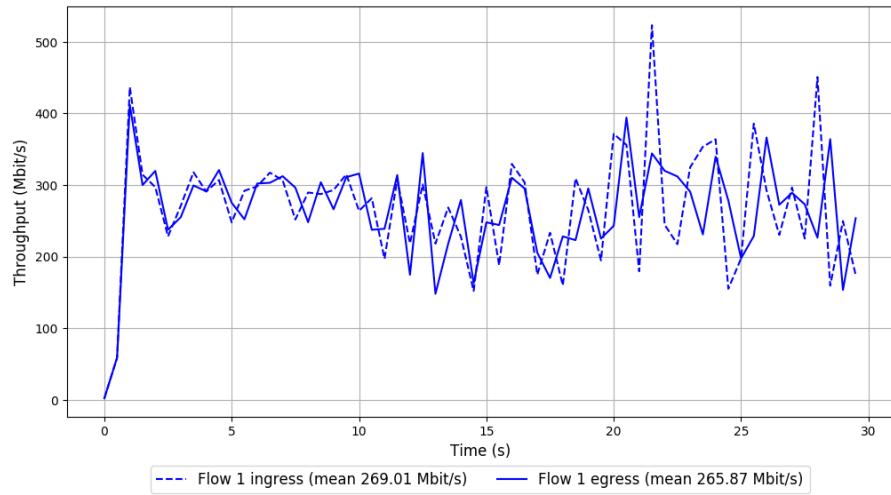
Run 4: Statistics of Verus

Start at: 2018-01-09 03:18:38

End at: 2018-01-09 03:19:08

```
# Below is generated by plot.py at 2018-01-09 05:59:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.87 Mbit/s
95th percentile per-packet one-way delay: 182.615 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 265.87 Mbit/s
95th percentile per-packet one-way delay: 182.615 ms
Loss rate: 1.17%
```

## Run 4: Report of Verus — Data Link

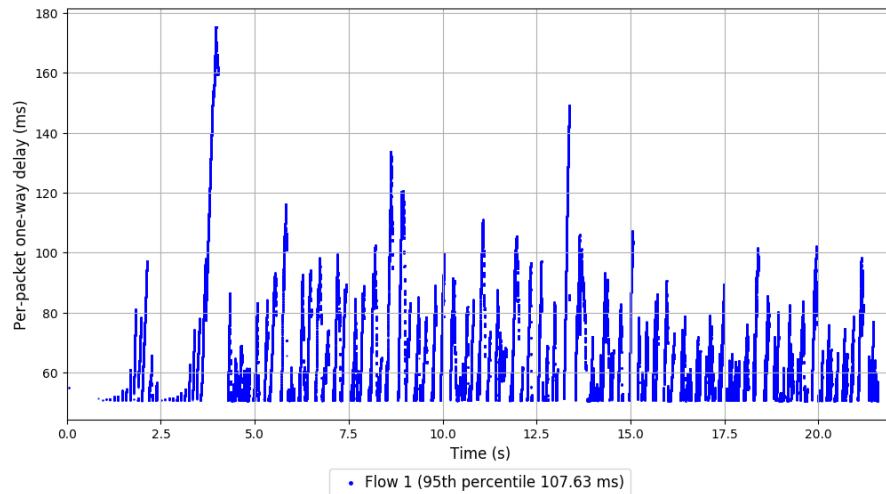
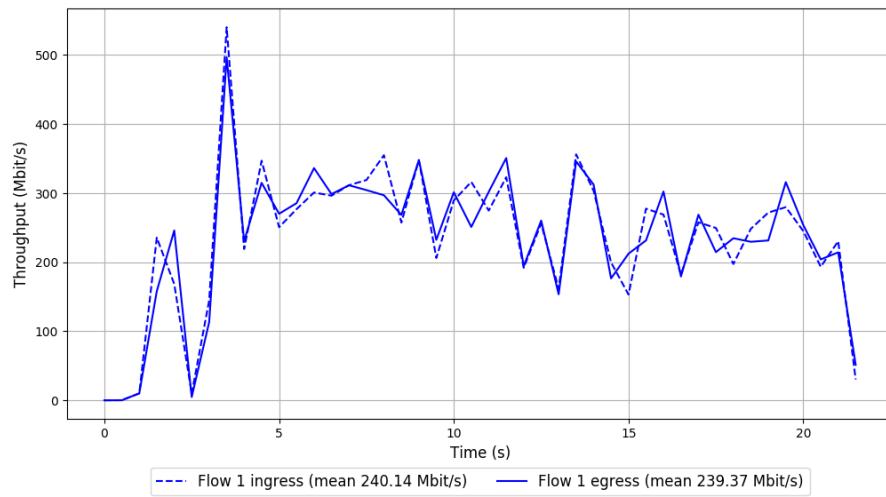


Run 5: Statistics of Verus

Start at: 2018-01-09 03:30:01

End at: 2018-01-09 03:30:31

Run 5: Report of Verus — Data Link

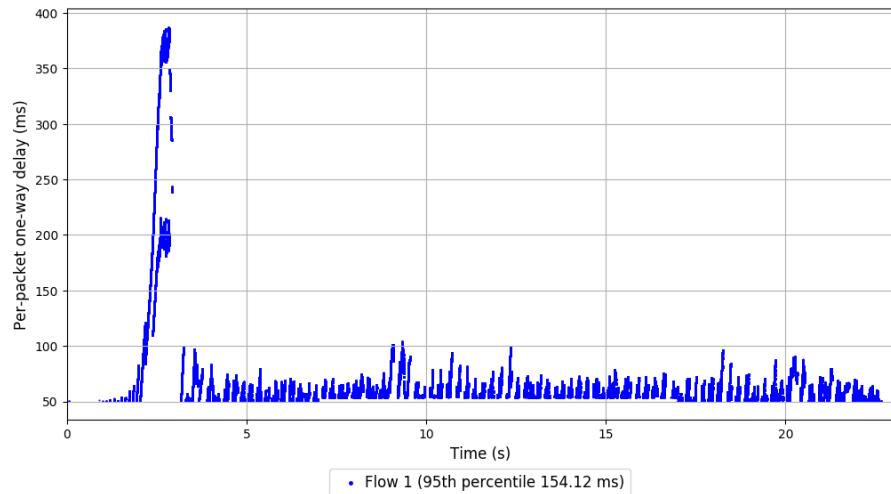
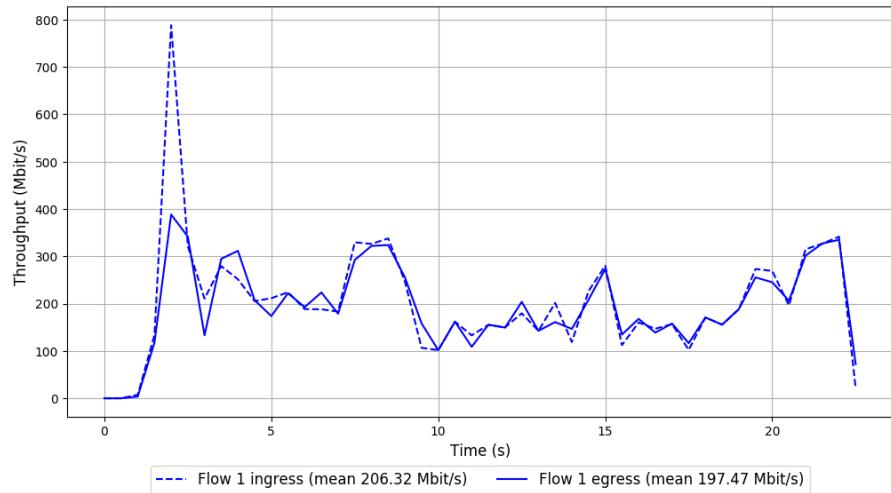


Run 6: Statistics of Verus

Start at: 2018-01-09 03:41:13

End at: 2018-01-09 03:41:43

Run 6: Report of Verus — Data Link



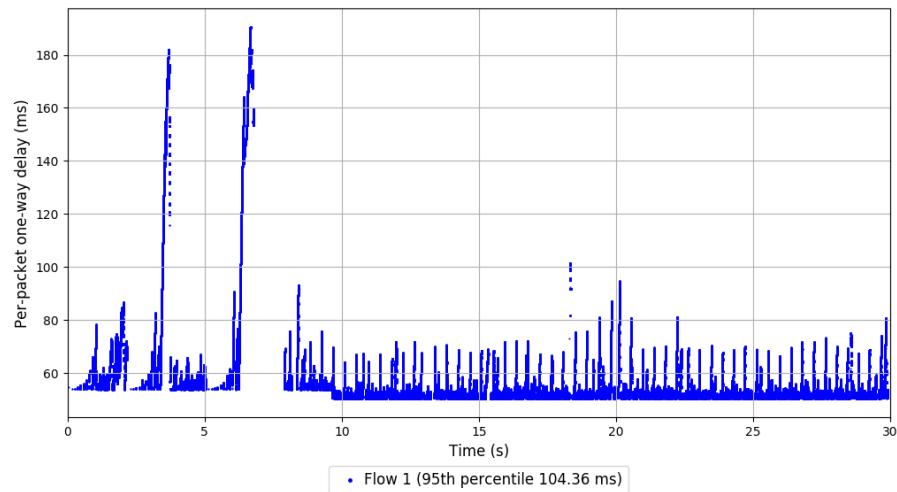
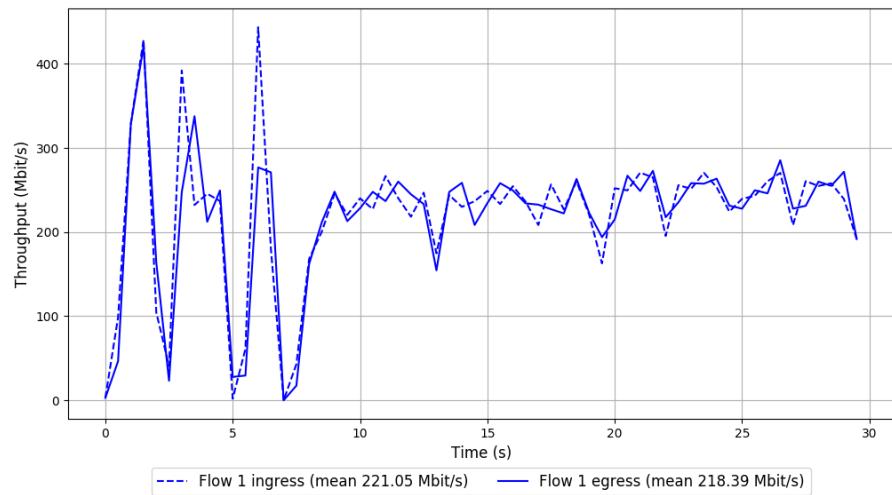
Run 7: Statistics of Verus

Start at: 2018-01-09 03:52:18

End at: 2018-01-09 03:52:48

```
# Below is generated by plot.py at 2018-01-09 06:02:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.39 Mbit/s
95th percentile per-packet one-way delay: 104.363 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 218.39 Mbit/s
95th percentile per-packet one-way delay: 104.363 ms
Loss rate: 1.22%
```

Run 7: Report of Verus — Data Link



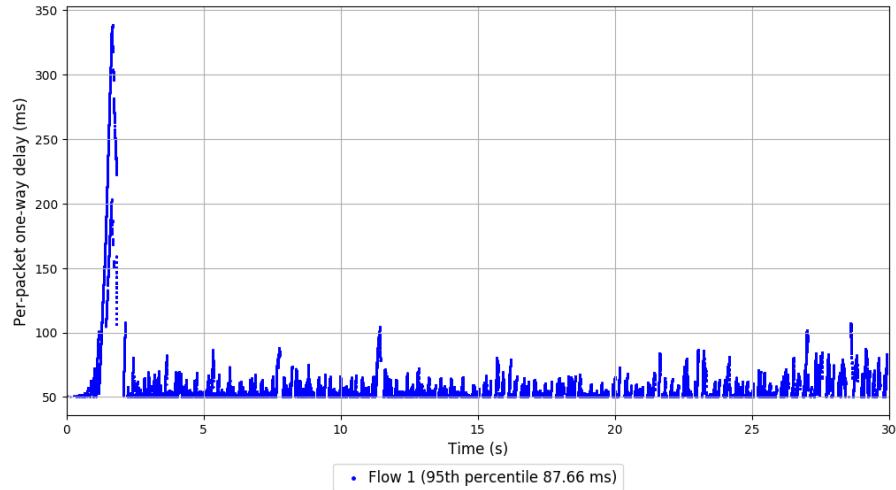
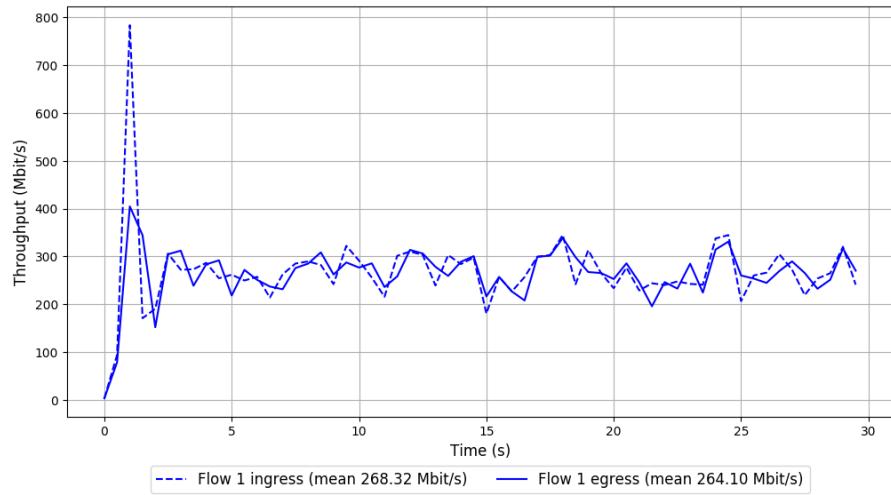
Run 8: Statistics of Verus

Start at: 2018-01-09 04:03:29

End at: 2018-01-09 04:03:59

```
# Below is generated by plot.py at 2018-01-09 06:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 264.10 Mbit/s
95th percentile per-packet one-way delay: 87.659 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 264.10 Mbit/s
95th percentile per-packet one-way delay: 87.659 ms
Loss rate: 1.53%
```

## Run 8: Report of Verus — Data Link



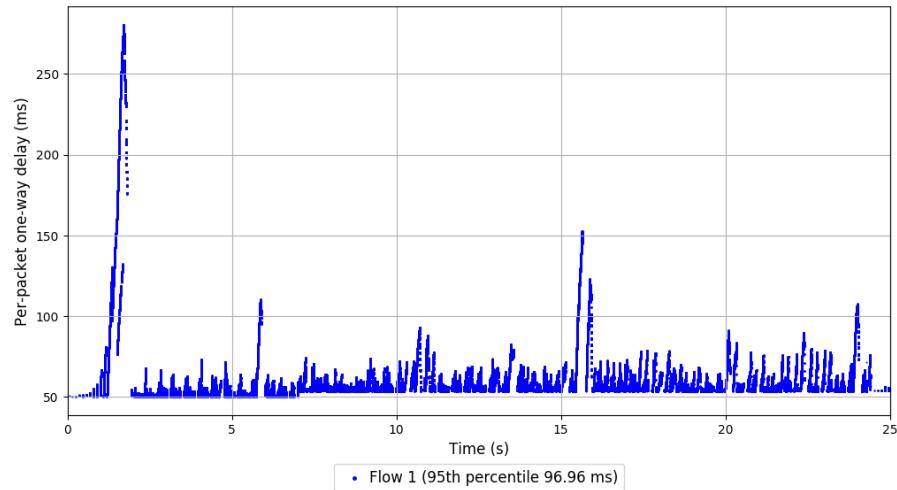
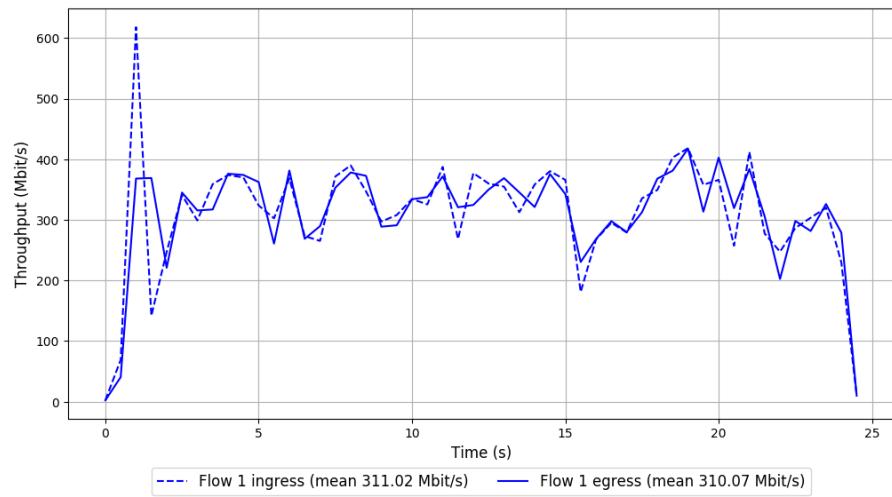
Run 9: Statistics of Verus

Start at: 2018-01-09 04:14:46

End at: 2018-01-09 04:15:16

```
# Below is generated by plot.py at 2018-01-09 06:03:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.07 Mbit/s
95th percentile per-packet one-way delay: 96.958 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 310.07 Mbit/s
95th percentile per-packet one-way delay: 96.958 ms
Loss rate: 0.28%
```

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



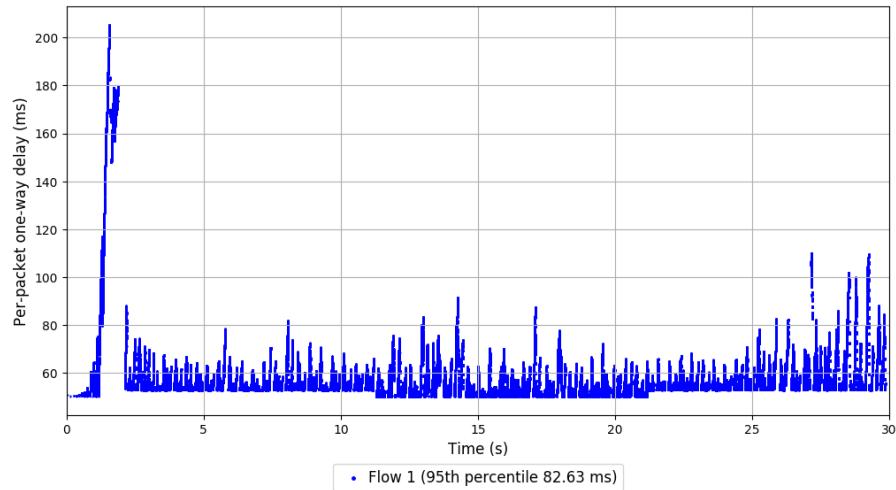
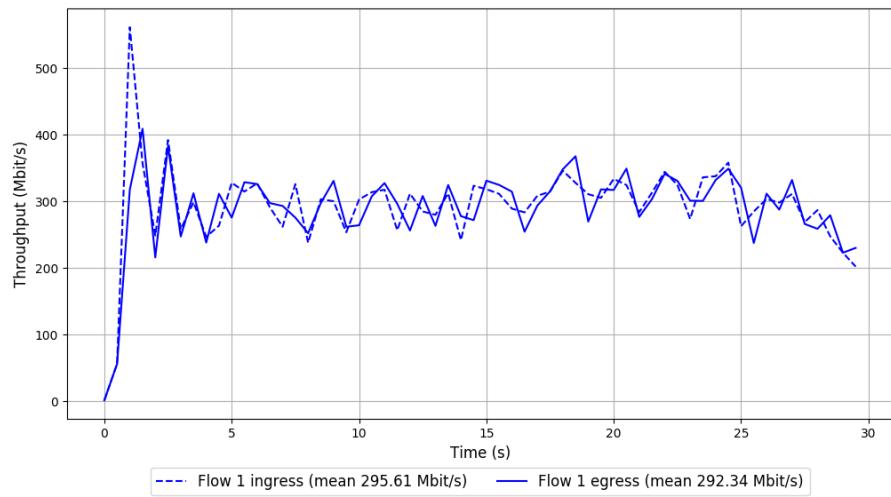
Run 10: Statistics of Verus

Start at: 2018-01-09 04:26:27

End at: 2018-01-09 04:26:57

```
# Below is generated by plot.py at 2018-01-09 06:03:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.34 Mbit/s
95th percentile per-packet one-way delay: 82.628 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 292.34 Mbit/s
95th percentile per-packet one-way delay: 82.628 ms
Loss rate: 1.09%
```

Run 10: Report of Verus — Data Link



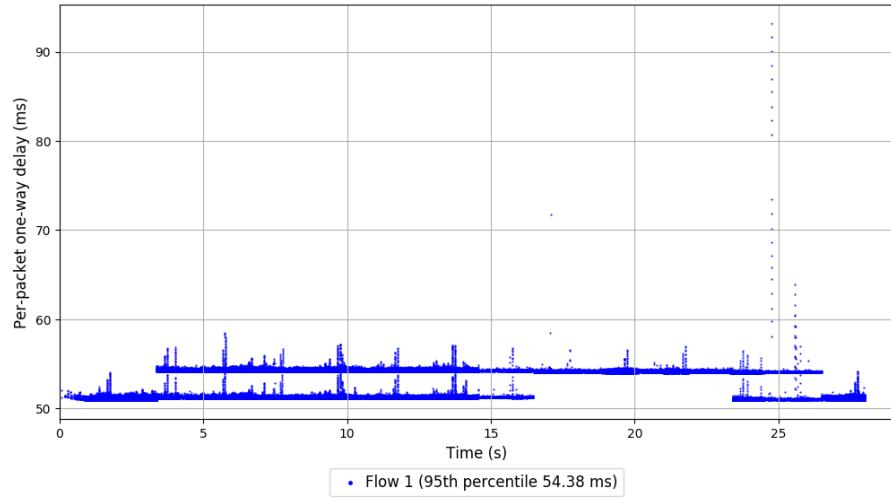
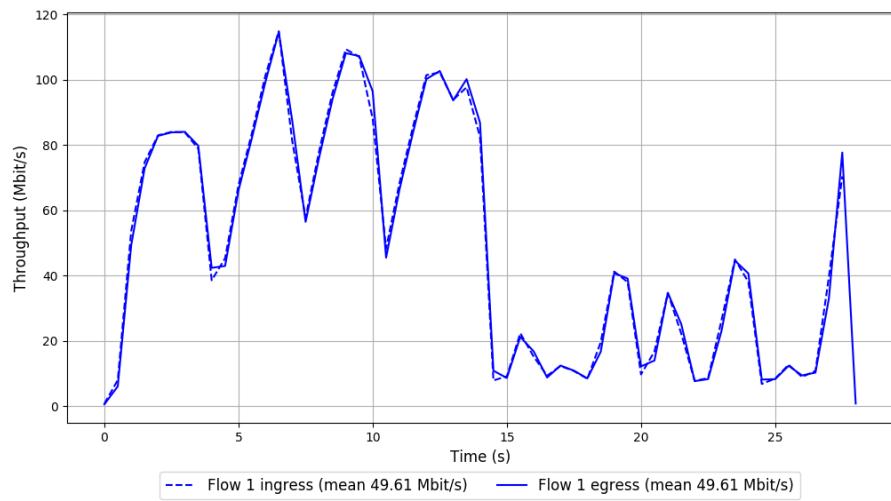
Run 1: Statistics of Copa

Start at: 2018-01-09 02:43:49

End at: 2018-01-09 02:44:19

```
# Below is generated by plot.py at 2018-01-09 06:03:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.61 Mbit/s
95th percentile per-packet one-way delay: 54.377 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.61 Mbit/s
95th percentile per-packet one-way delay: 54.377 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



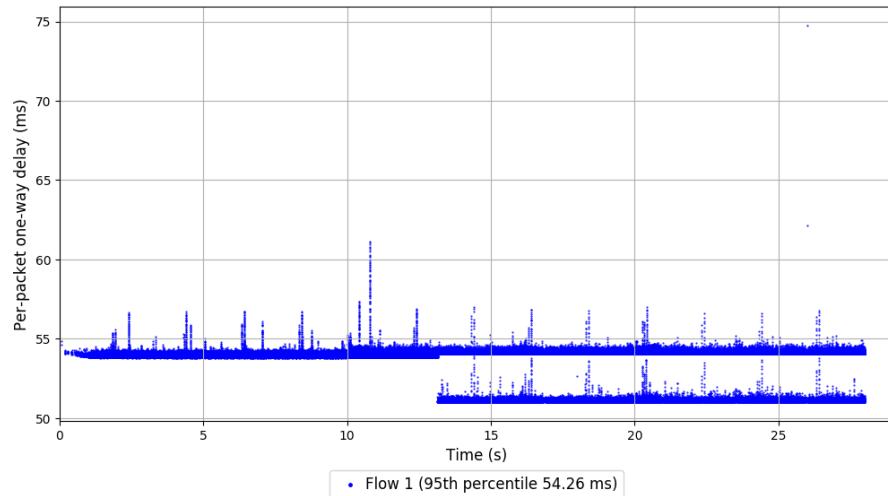
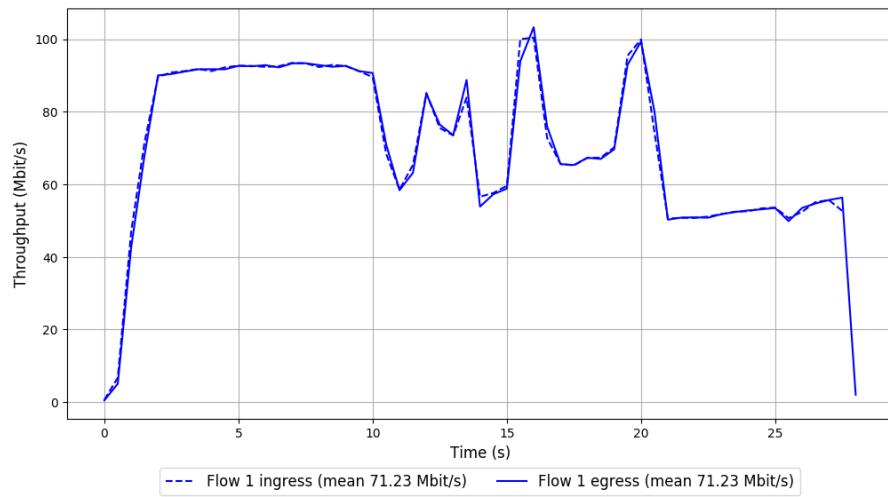
Run 2: Statistics of Copa

Start at: 2018-01-09 02:55:13

End at: 2018-01-09 02:55:43

```
# Below is generated by plot.py at 2018-01-09 06:03:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.23 Mbit/s
95th percentile per-packet one-way delay: 54.260 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 71.23 Mbit/s
95th percentile per-packet one-way delay: 54.260 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link



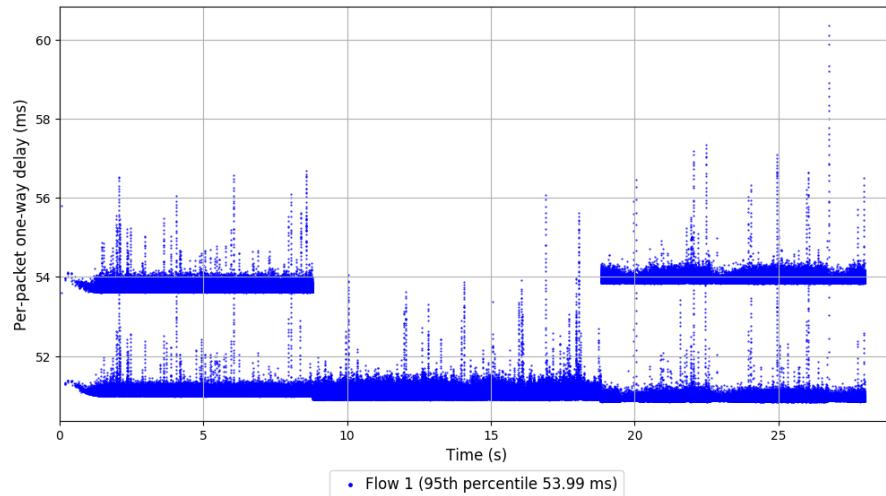
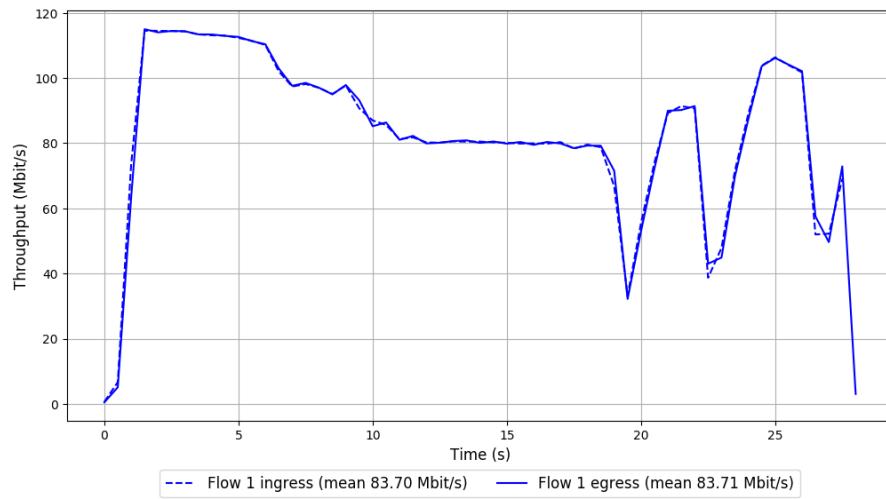
Run 3: Statistics of Copa

Start at: 2018-01-09 03:06:37

End at: 2018-01-09 03:07:07

```
# Below is generated by plot.py at 2018-01-09 06:03:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.71 Mbit/s
95th percentile per-packet one-way delay: 53.990 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.71 Mbit/s
95th percentile per-packet one-way delay: 53.990 ms
Loss rate: 0.00%
```

### Run 3: Report of Copa — Data Link



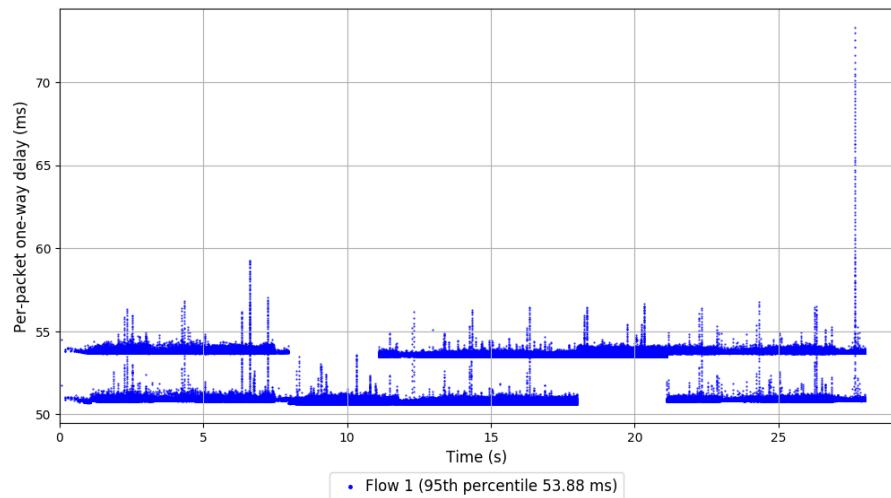
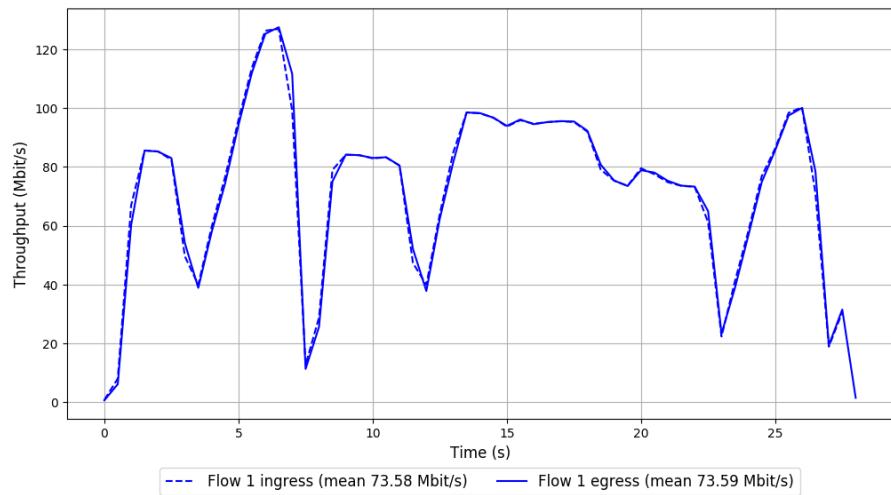
Run 4: Statistics of Copa

Start at: 2018-01-09 03:17:55

End at: 2018-01-09 03:18:25

```
# Below is generated by plot.py at 2018-01-09 06:03:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.59 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.59 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.00%
```

### Run 4: Report of Copa — Data Link



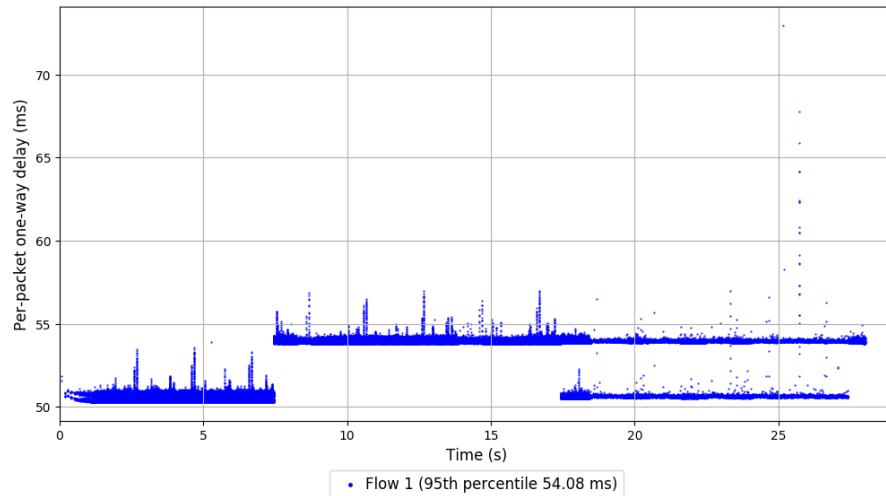
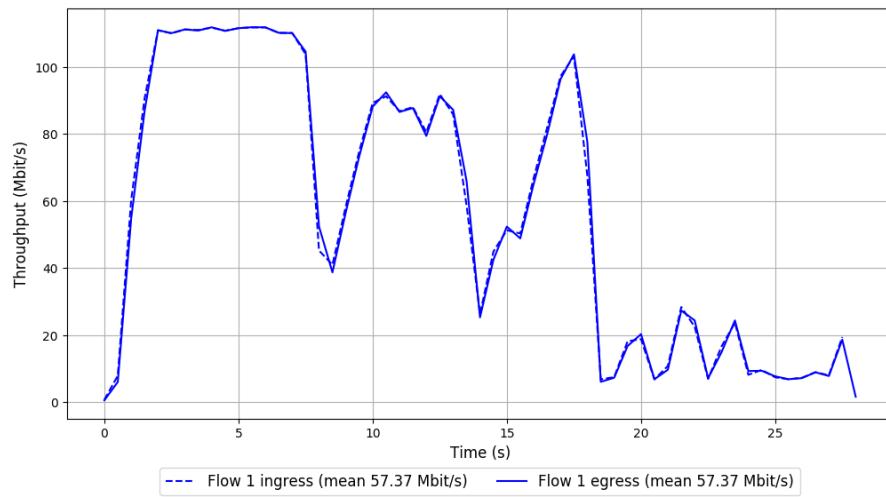
Run 5: Statistics of Copa

Start at: 2018-01-09 03:29:18

End at: 2018-01-09 03:29:48

```
# Below is generated by plot.py at 2018-01-09 06:03:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.37 Mbit/s
95th percentile per-packet one-way delay: 54.084 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 57.37 Mbit/s
95th percentile per-packet one-way delay: 54.084 ms
Loss rate: 0.01%
```

Run 5: Report of Copa — Data Link



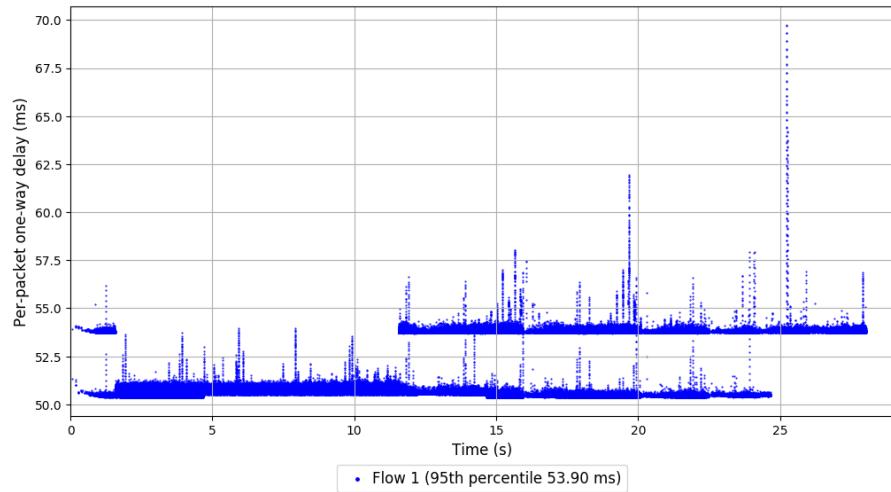
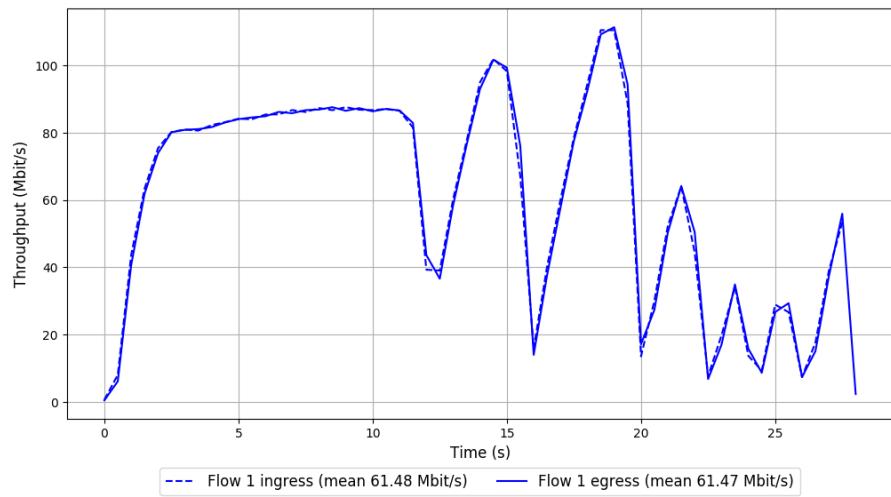
Run 6: Statistics of Copa

Start at: 2018-01-09 03:40:31

End at: 2018-01-09 03:41:01

```
# Below is generated by plot.py at 2018-01-09 06:03:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.47 Mbit/s
95th percentile per-packet one-way delay: 53.903 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 61.47 Mbit/s
95th percentile per-packet one-way delay: 53.903 ms
Loss rate: 0.01%
```

Run 6: Report of Copa — Data Link



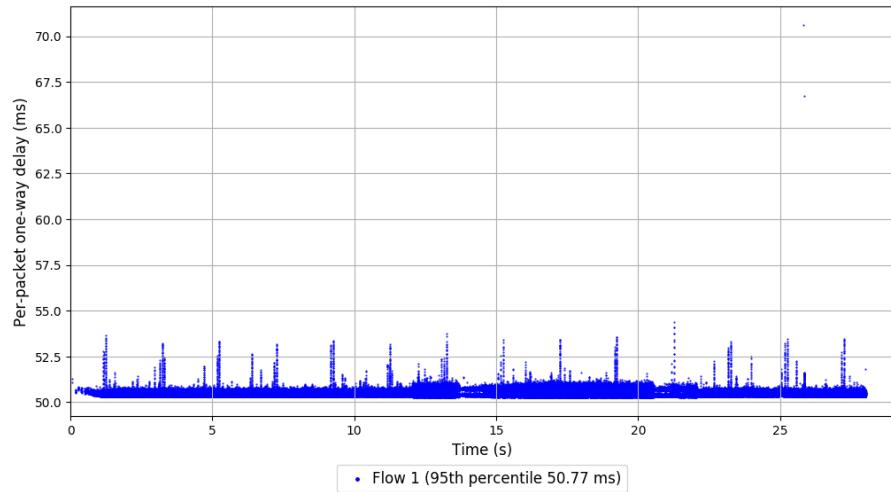
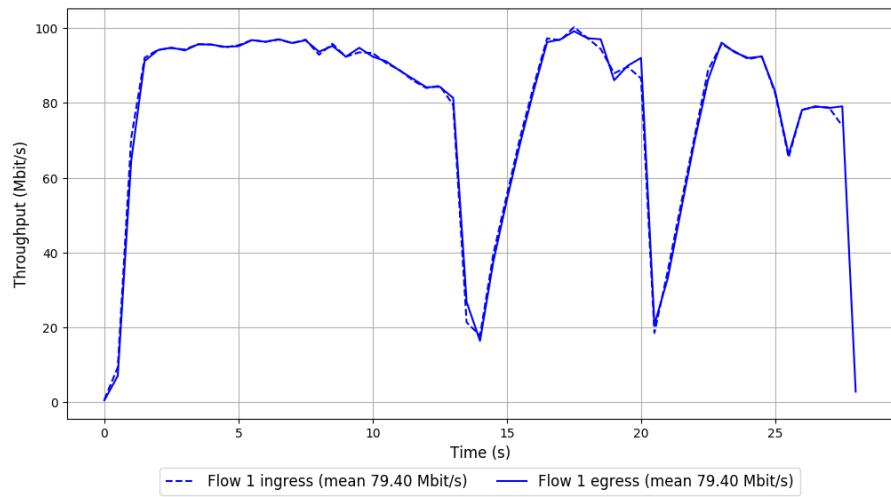
Run 7: Statistics of Copa

Start at: 2018-01-09 03:51:34

End at: 2018-01-09 03:52:04

```
# Below is generated by plot.py at 2018-01-09 06:04:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.40 Mbit/s
95th percentile per-packet one-way delay: 50.766 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.40 Mbit/s
95th percentile per-packet one-way delay: 50.766 ms
Loss rate: 0.00%
```

### Run 7: Report of Copa — Data Link



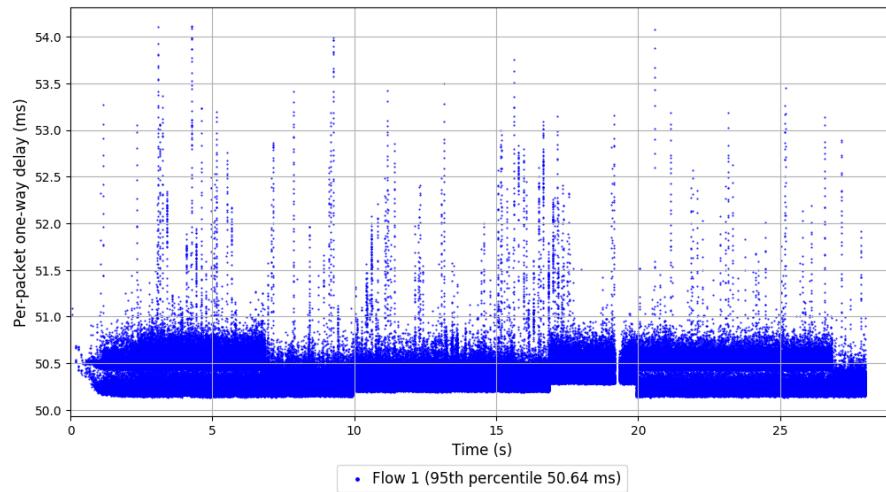
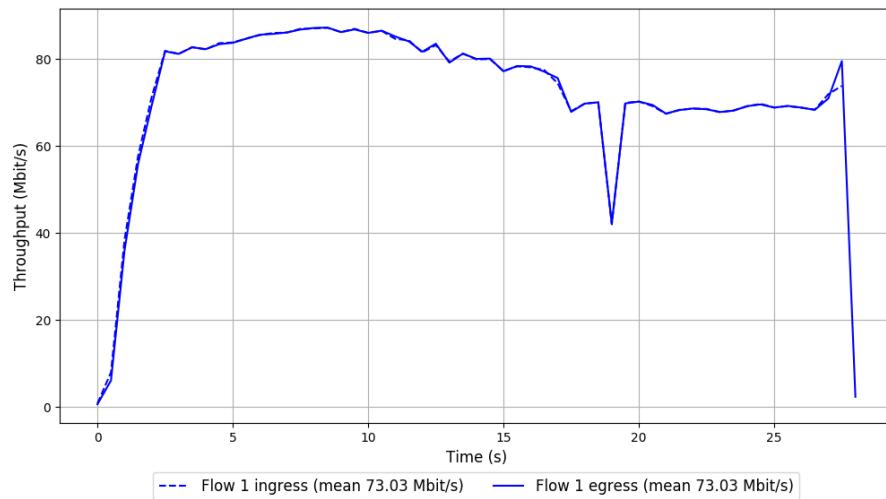
Run 8: Statistics of Copa

Start at: 2018-01-09 04:02:46

End at: 2018-01-09 04:03:16

```
# Below is generated by plot.py at 2018-01-09 06:04:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.03 Mbit/s
95th percentile per-packet one-way delay: 50.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.03 Mbit/s
95th percentile per-packet one-way delay: 50.636 ms
Loss rate: 0.00%
```

### Run 8: Report of Copa — Data Link



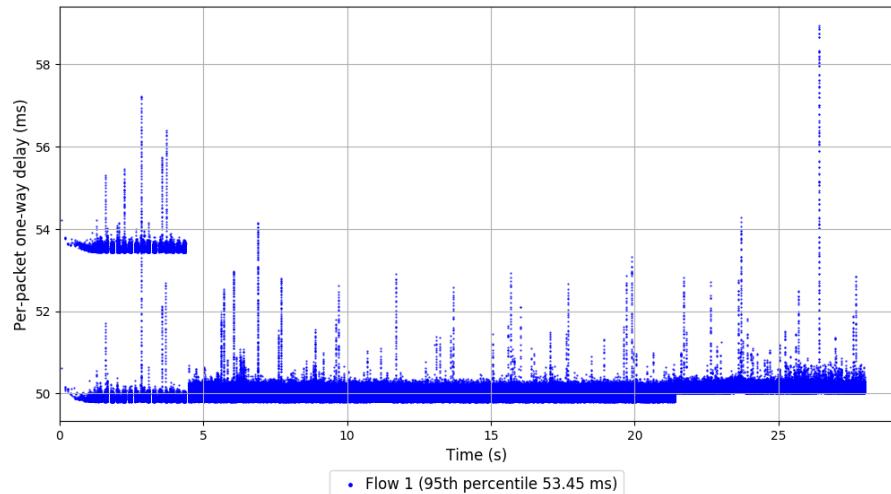
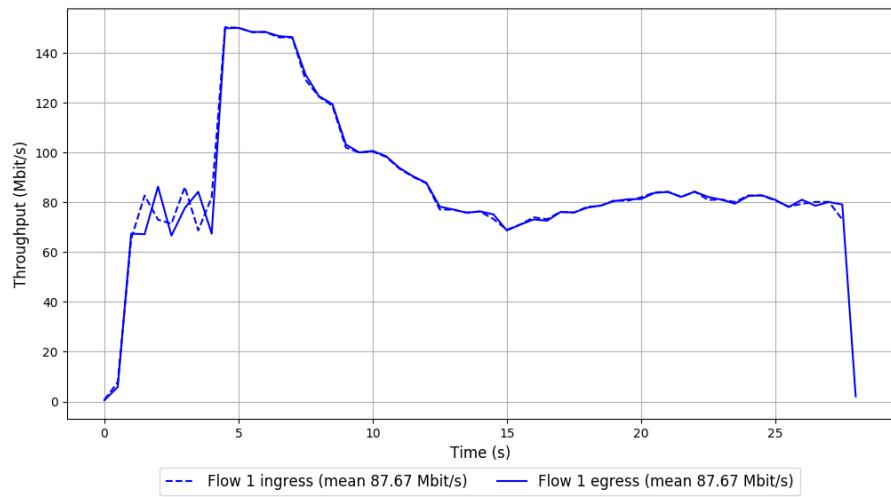
Run 9: Statistics of Copa

Start at: 2018-01-09 04:14:01

End at: 2018-01-09 04:14:31

```
# Below is generated by plot.py at 2018-01-09 06:04:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 53.452 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 53.452 ms
Loss rate: 0.00%
```

### Run 9: Report of Copa — Data Link



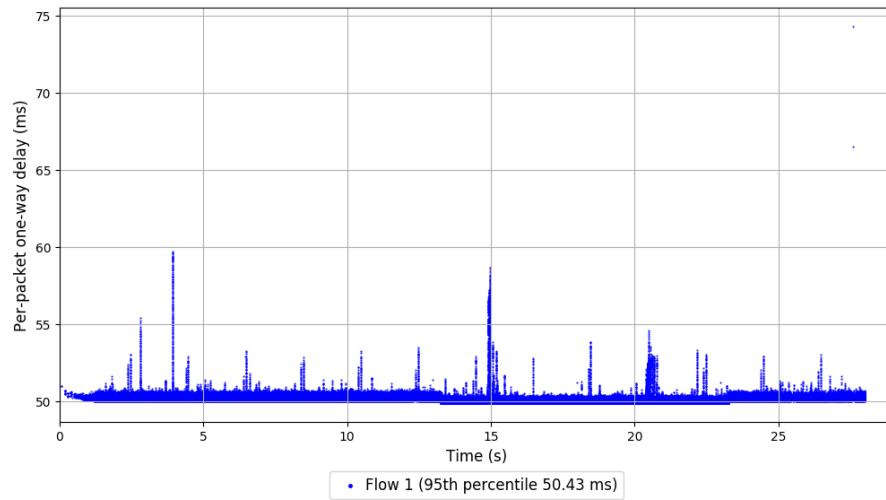
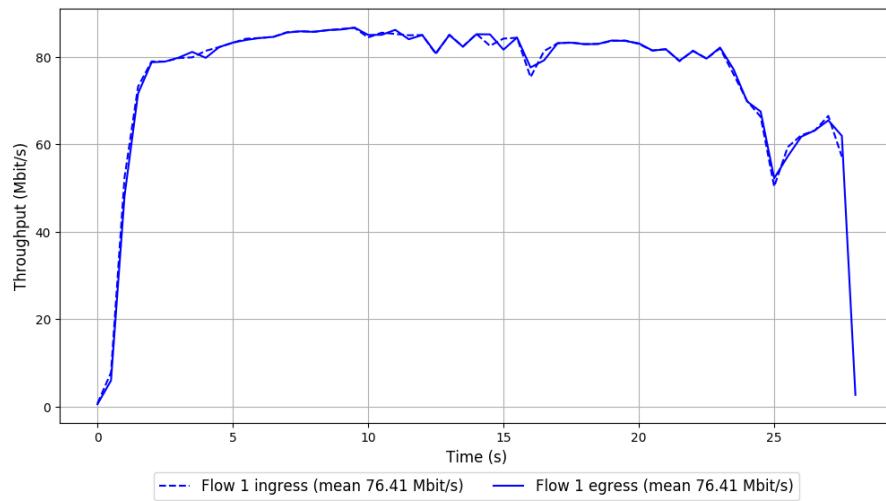
Run 10: Statistics of Copa

Start at: 2018-01-09 04:25:43

End at: 2018-01-09 04:26:13

```
# Below is generated by plot.py at 2018-01-09 06:04:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.41 Mbit/s
95th percentile per-packet one-way delay: 50.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.41 Mbit/s
95th percentile per-packet one-way delay: 50.429 ms
Loss rate: 0.00%
```

Run 10: Report of Copa — Data Link

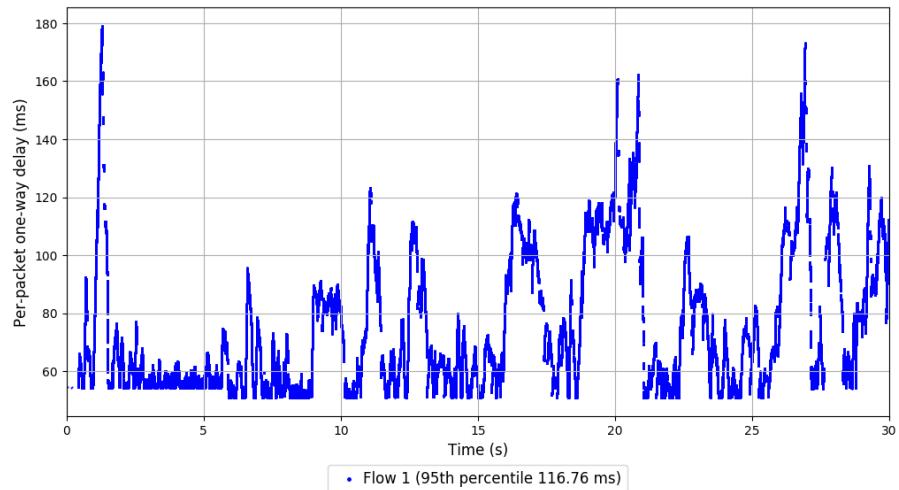
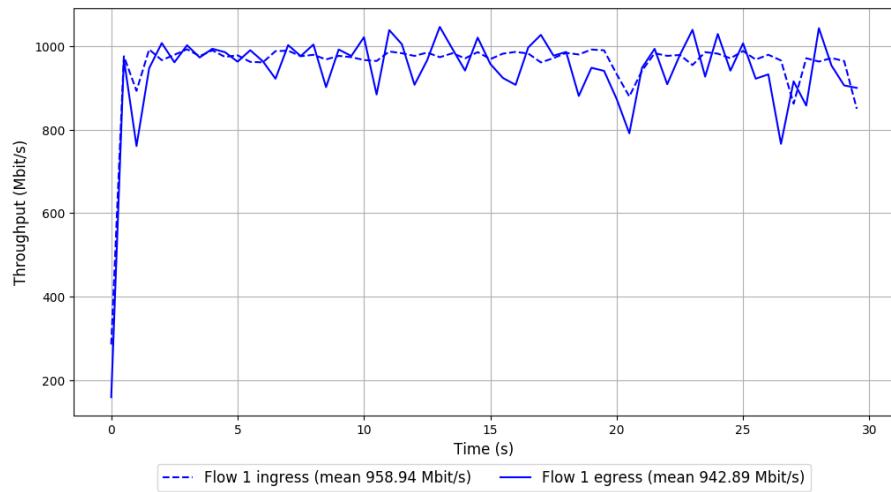


```
Run 1: Statistics of FillP

Start at: 2018-01-09 02:49:02
End at: 2018-01-09 02:49:32

# Below is generated by plot.py at 2018-01-09 06:19:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 942.89 Mbit/s
95th percentile per-packet one-way delay: 116.756 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 942.89 Mbit/s
95th percentile per-packet one-way delay: 116.756 ms
Loss rate: 1.68%
```

Run 1: Report of FillP — Data Link



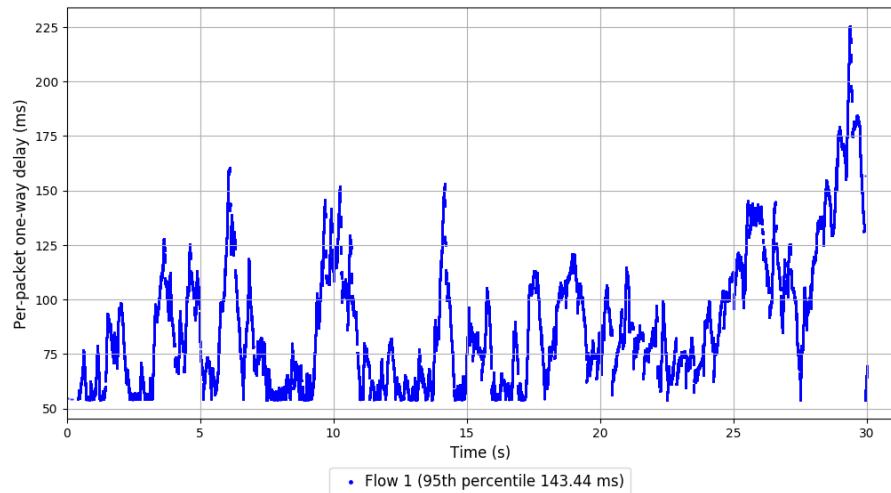
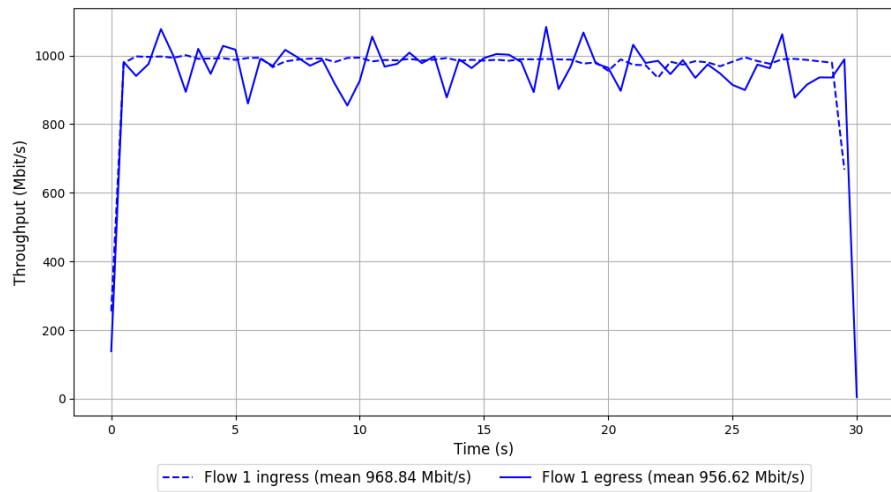
Run 2: Statistics of FillP

Start at: 2018-01-09 03:00:25

End at: 2018-01-09 03:00:55

```
# Below is generated by plot.py at 2018-01-09 06:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 956.62 Mbit/s
95th percentile per-packet one-way delay: 143.438 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 956.62 Mbit/s
95th percentile per-packet one-way delay: 143.438 ms
Loss rate: 1.27%
```

Run 2: Report of FillP — Data Link



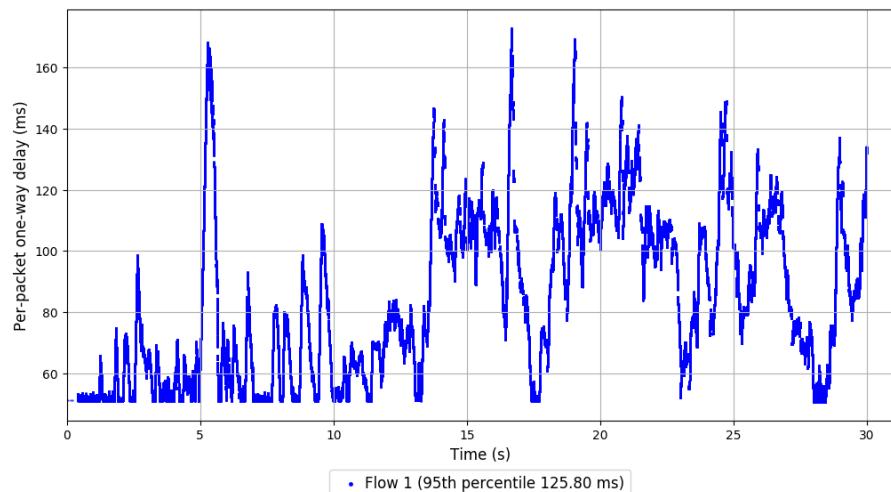
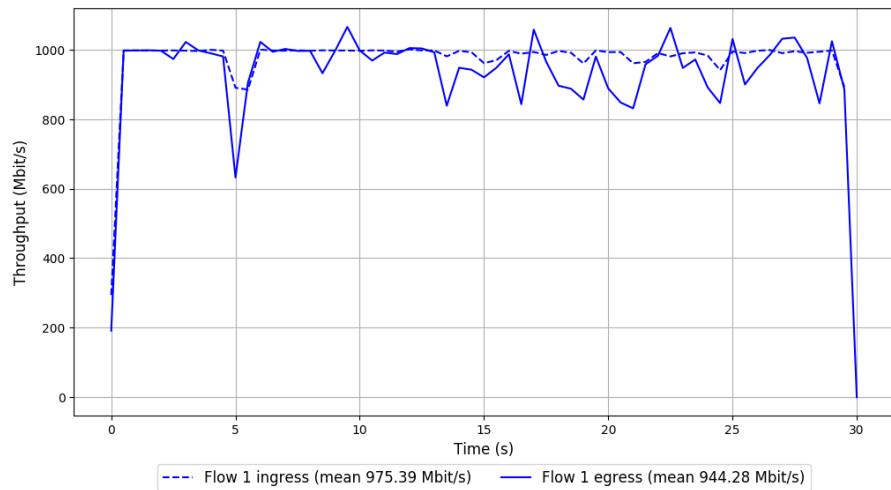
Run 3: Statistics of FillP

Start at: 2018-01-09 03:11:49

End at: 2018-01-09 03:12:19

```
# Below is generated by plot.py at 2018-01-09 06:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 944.28 Mbit/s
95th percentile per-packet one-way delay: 125.796 ms
Loss rate: 3.19%
-- Flow 1:
Average throughput: 944.28 Mbit/s
95th percentile per-packet one-way delay: 125.796 ms
Loss rate: 3.19%
```

Run 3: Report of FillP — Data Link



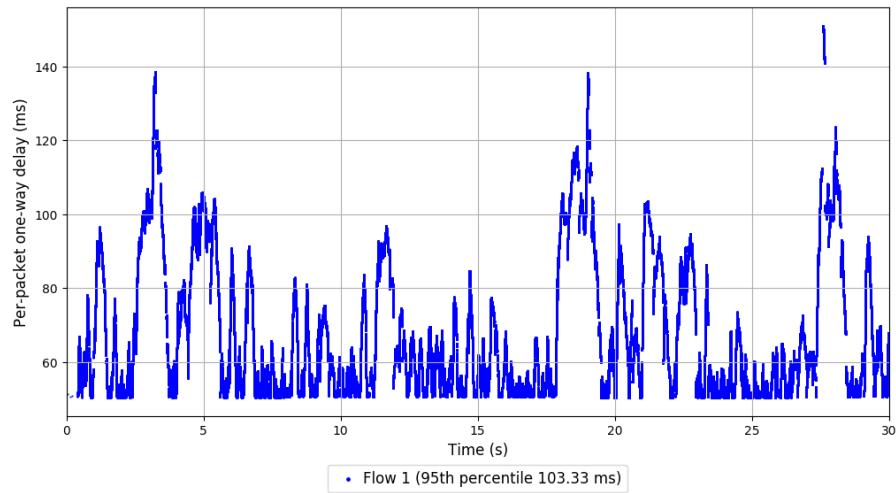
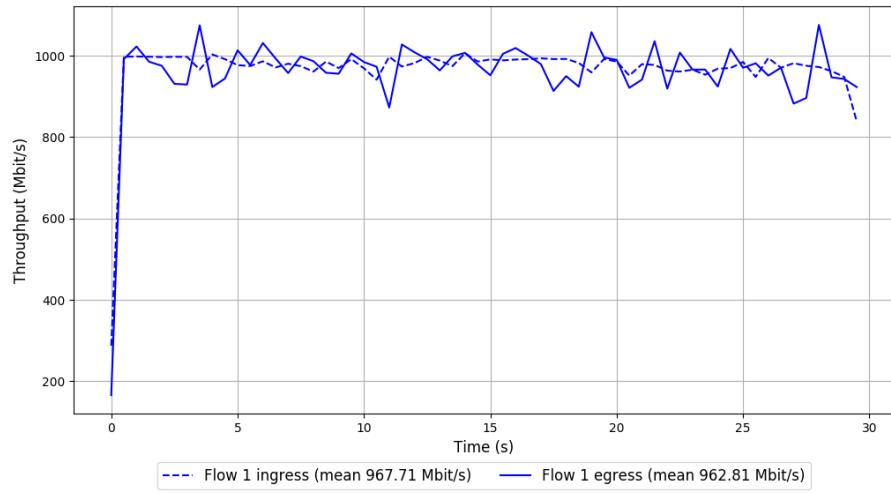
Run 4: Statistics of FillP

Start at: 2018-01-09 03:23:10

End at: 2018-01-09 03:23:40

```
# Below is generated by plot.py at 2018-01-09 06:20:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 962.81 Mbit/s
95th percentile per-packet one-way delay: 103.329 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 962.81 Mbit/s
95th percentile per-packet one-way delay: 103.329 ms
Loss rate: 0.50%
```

Run 4: Report of FillP — Data Link



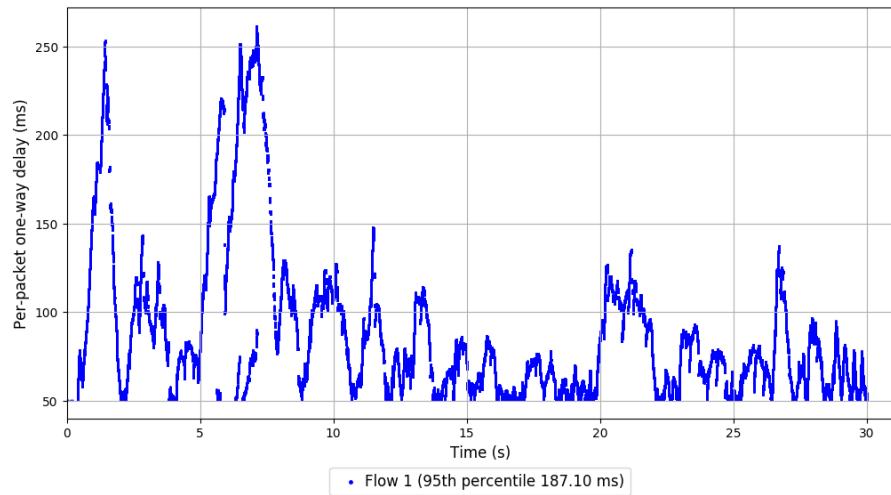
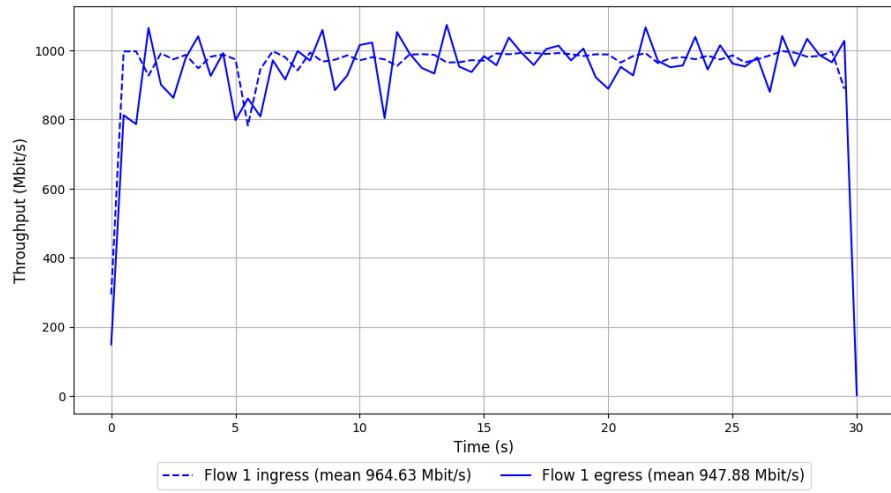
Run 5: Statistics of FillP

Start at: 2018-01-09 03:34:23

End at: 2018-01-09 03:34:53

```
# Below is generated by plot.py at 2018-01-09 06:20:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 947.88 Mbit/s
95th percentile per-packet one-way delay: 187.097 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 947.88 Mbit/s
95th percentile per-packet one-way delay: 187.097 ms
Loss rate: 1.74%
```

Run 5: Report of FillP — Data Link



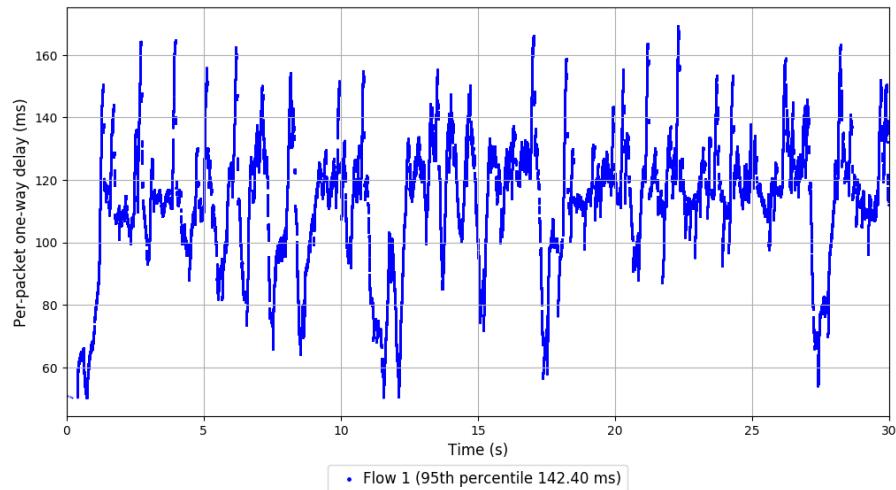
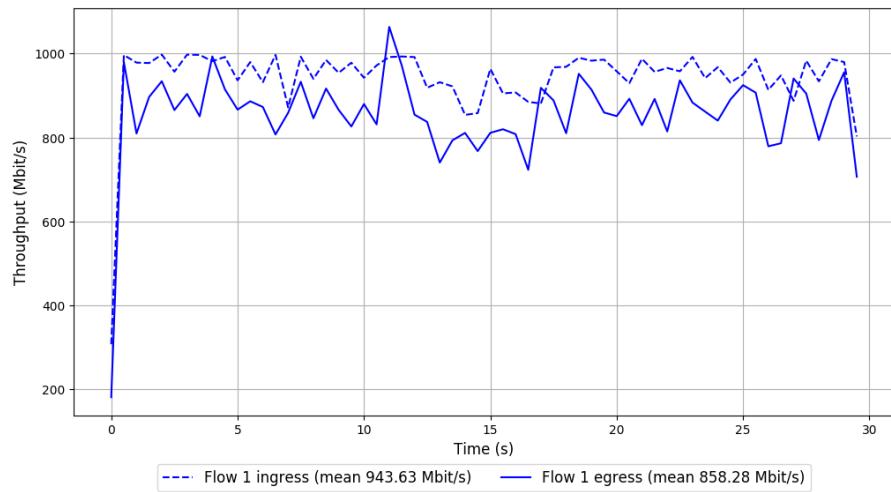
Run 6: Statistics of FillP

Start at: 2018-01-09 03:45:36

End at: 2018-01-09 03:46:06

```
# Below is generated by plot.py at 2018-01-09 06:20:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 858.28 Mbit/s
95th percentile per-packet one-way delay: 142.402 ms
Loss rate: 9.16%
-- Flow 1:
Average throughput: 858.28 Mbit/s
95th percentile per-packet one-way delay: 142.402 ms
Loss rate: 9.16%
```

Run 6: Report of FillP — Data Link



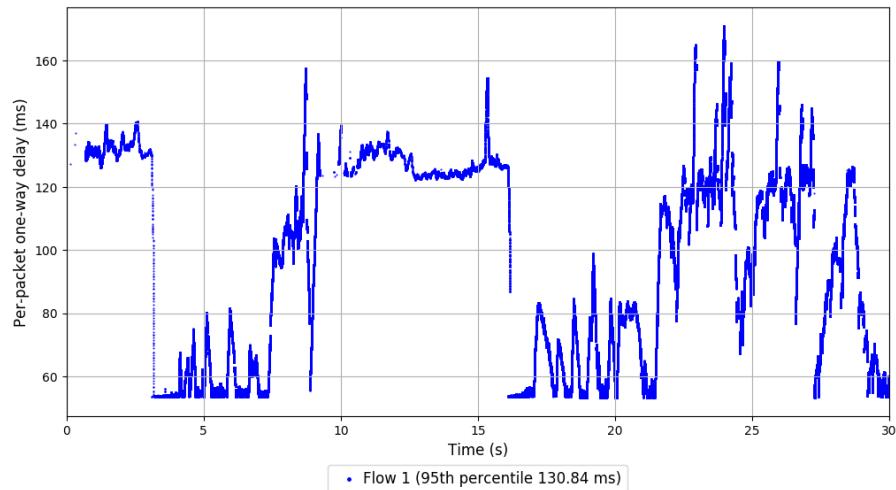
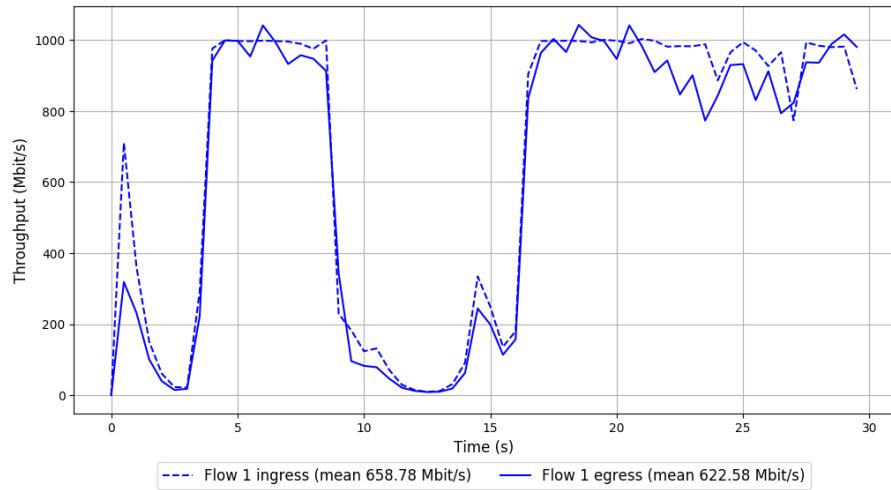
Run 7: Statistics of FillP

Start at: 2018-01-09 03:56:49

End at: 2018-01-09 03:57:19

```
# Below is generated by plot.py at 2018-01-09 06:20:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 622.58 Mbit/s
95th percentile per-packet one-way delay: 130.839 ms
Loss rate: 5.73%
-- Flow 1:
Average throughput: 622.58 Mbit/s
95th percentile per-packet one-way delay: 130.839 ms
Loss rate: 5.73%
```

Run 7: Report of FillP — Data Link



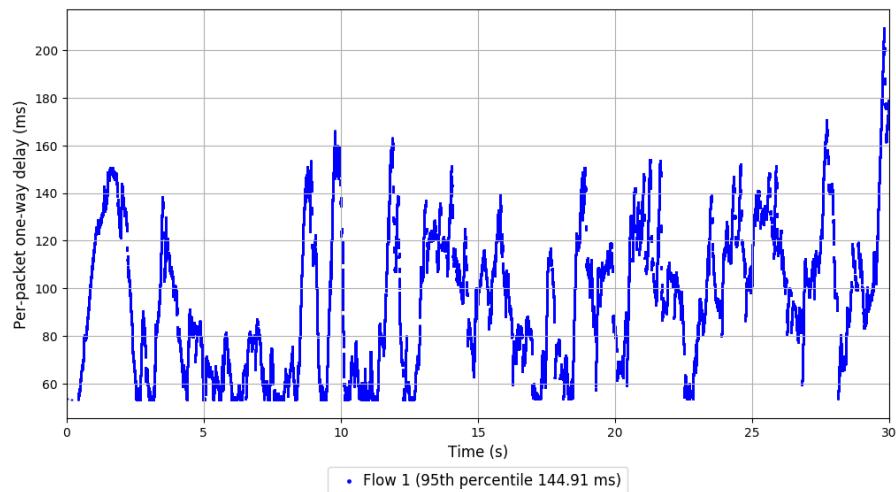
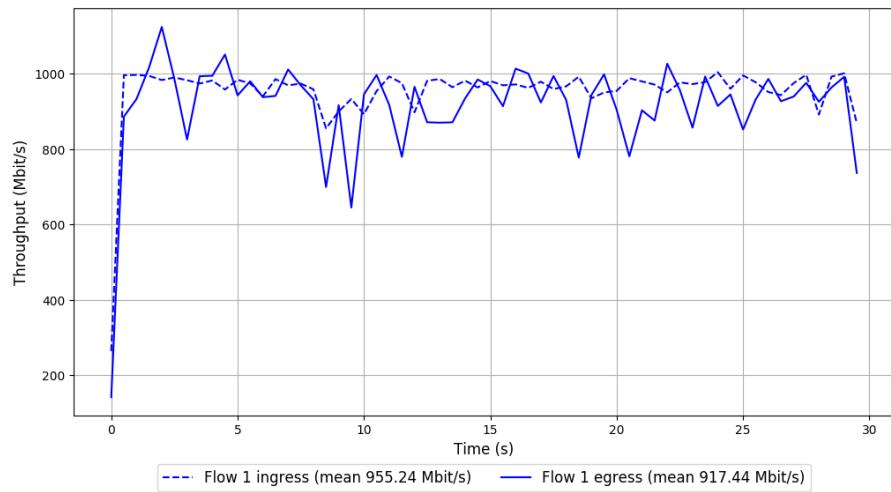
Run 8: Statistics of FillP

Start at: 2018-01-09 04:08:02

End at: 2018-01-09 04:08:32

```
# Below is generated by plot.py at 2018-01-09 06:20:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 917.44 Mbit/s
95th percentile per-packet one-way delay: 144.912 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 917.44 Mbit/s
95th percentile per-packet one-way delay: 144.912 ms
Loss rate: 3.96%
```

Run 8: Report of FillP — Data Link



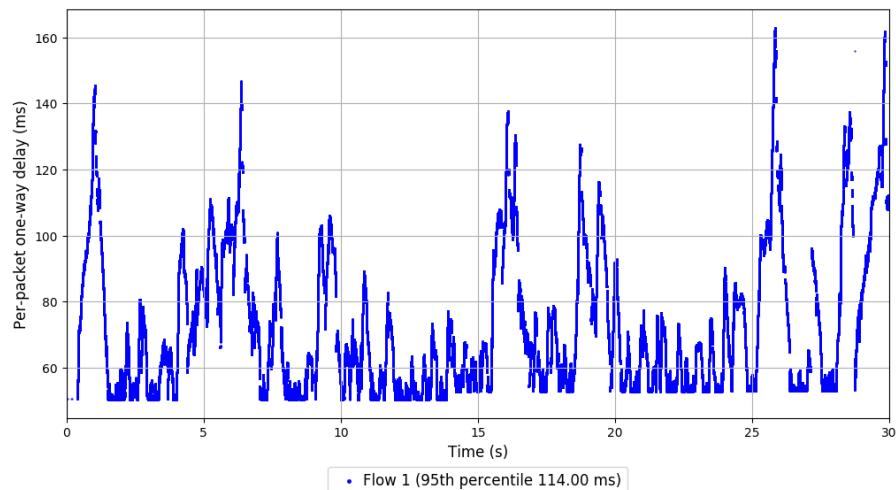
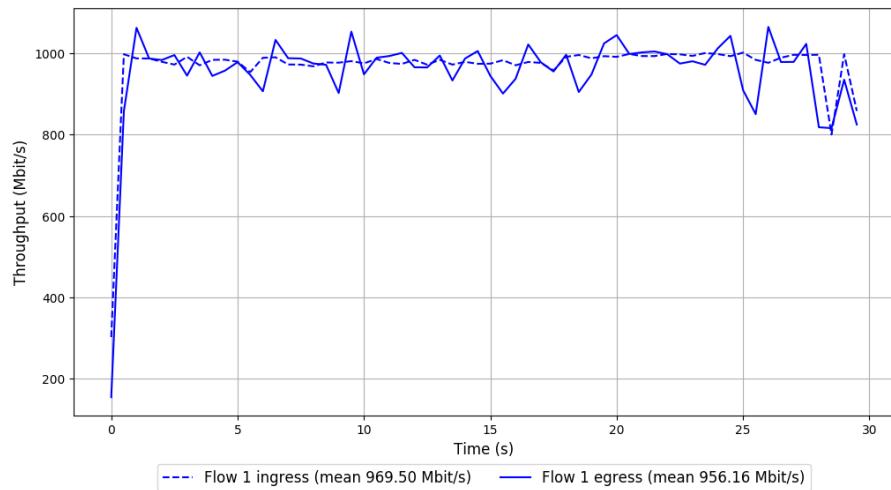
Run 9: Statistics of FillP

Start at: 2018-01-09 04:19:21

End at: 2018-01-09 04:19:51

```
# Below is generated by plot.py at 2018-01-09 06:26:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 956.16 Mbit/s
95th percentile per-packet one-way delay: 113.999 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 956.16 Mbit/s
95th percentile per-packet one-way delay: 113.999 ms
Loss rate: 1.38%
```

Run 9: Report of FillP — Data Link



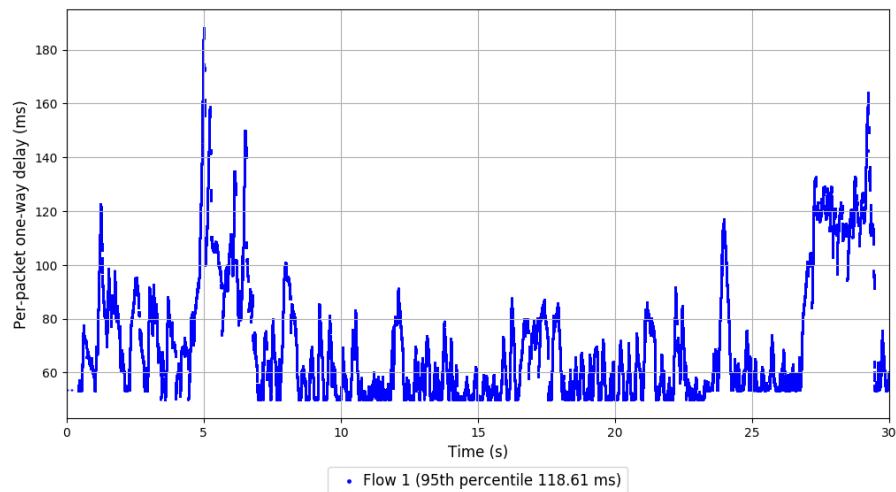
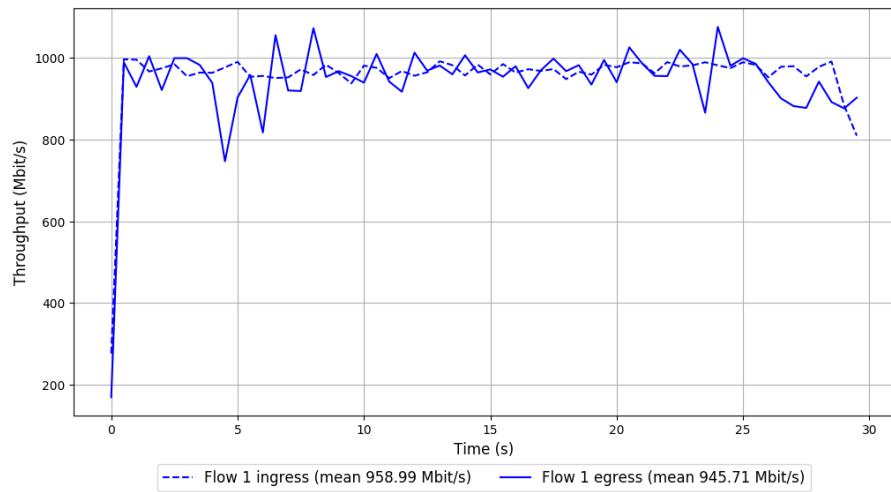
Run 10: Statistics of FillP

Start at: 2018-01-09 04:31:01

End at: 2018-01-09 04:31:31

```
# Below is generated by plot.py at 2018-01-09 06:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 945.71 Mbit/s
95th percentile per-packet one-way delay: 118.614 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 945.71 Mbit/s
95th percentile per-packet one-way delay: 118.614 ms
Loss rate: 1.39%
```

Run 10: Report of FillP — Data Link



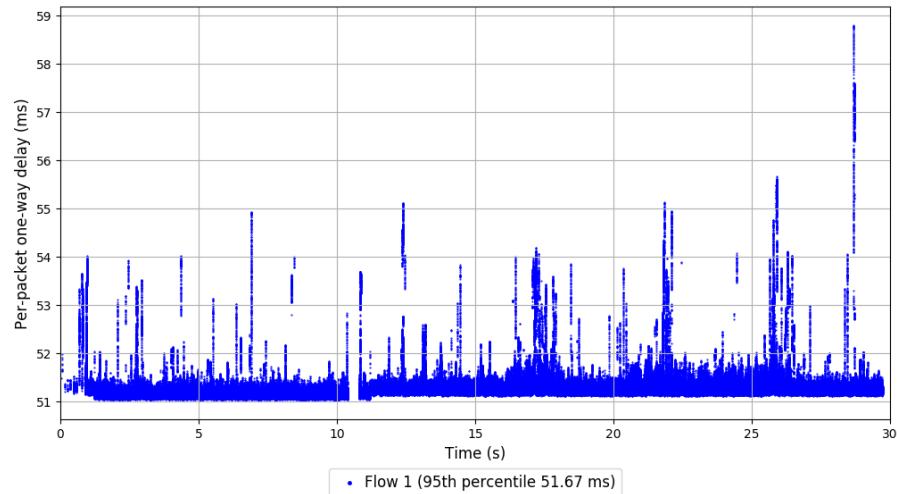
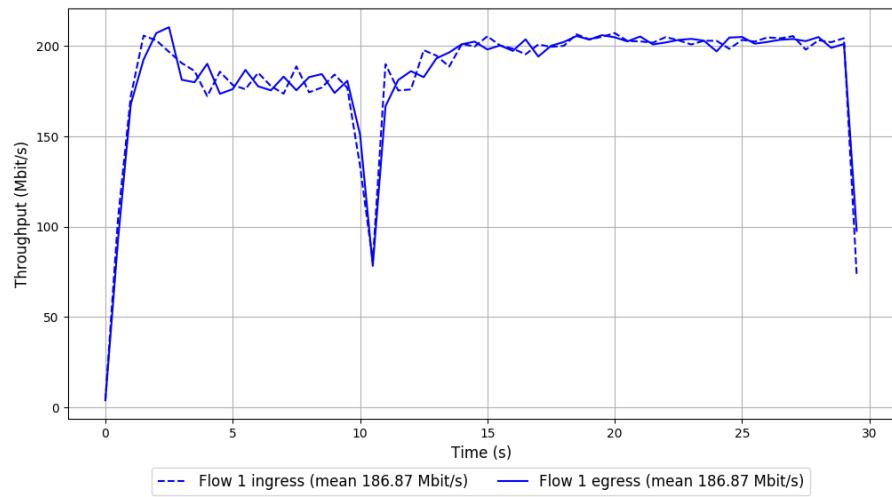
Run 1: Statistics of Indigo

Start at: 2018-01-09 02:52:56

End at: 2018-01-09 02:53:26

```
# Below is generated by plot.py at 2018-01-09 06:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.87 Mbit/s
95th percentile per-packet one-way delay: 51.667 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.87 Mbit/s
95th percentile per-packet one-way delay: 51.667 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



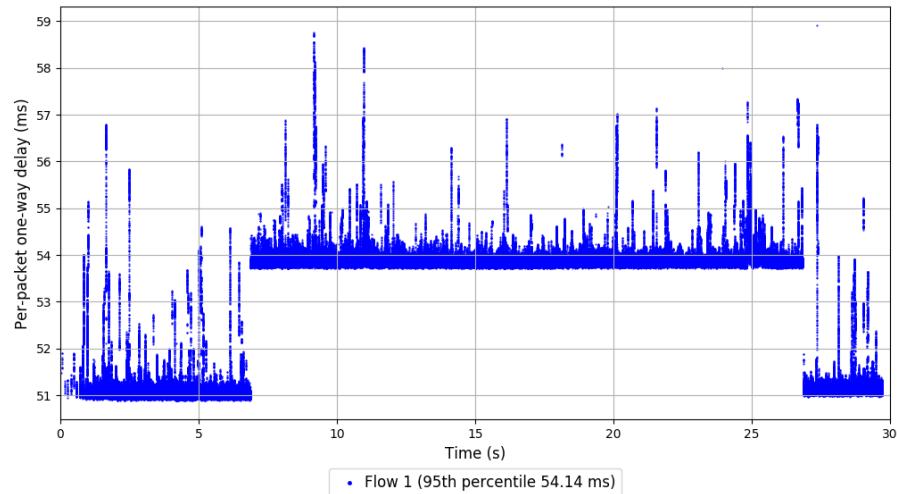
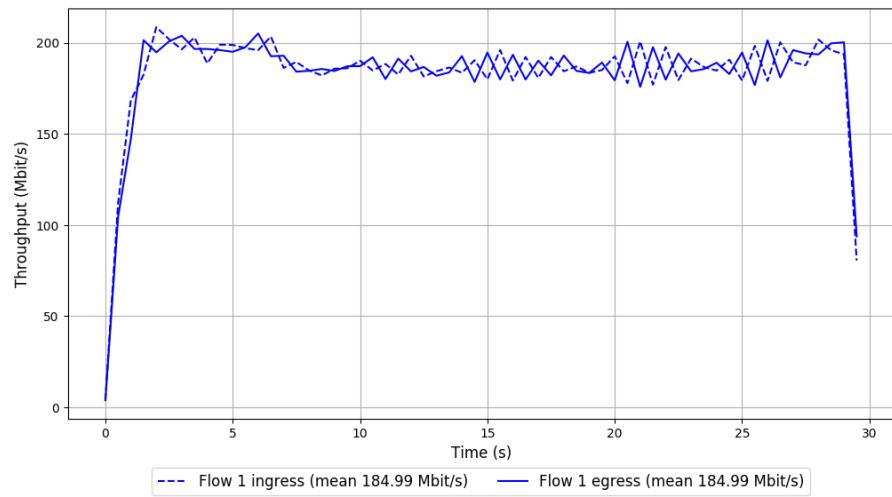
Run 2: Statistics of Indigo

Start at: 2018-01-09 03:04:21

End at: 2018-01-09 03:04:51

```
# Below is generated by plot.py at 2018-01-09 06:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.99 Mbit/s
95th percentile per-packet one-way delay: 54.137 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.99 Mbit/s
95th percentile per-packet one-way delay: 54.137 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



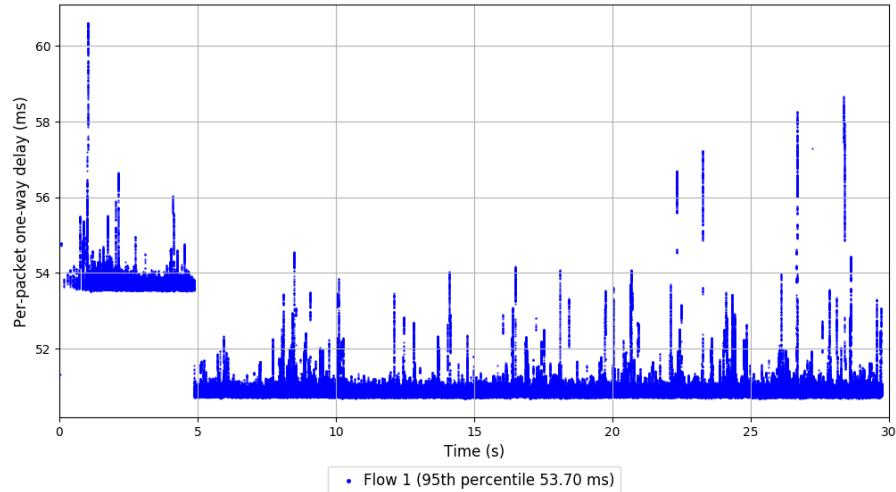
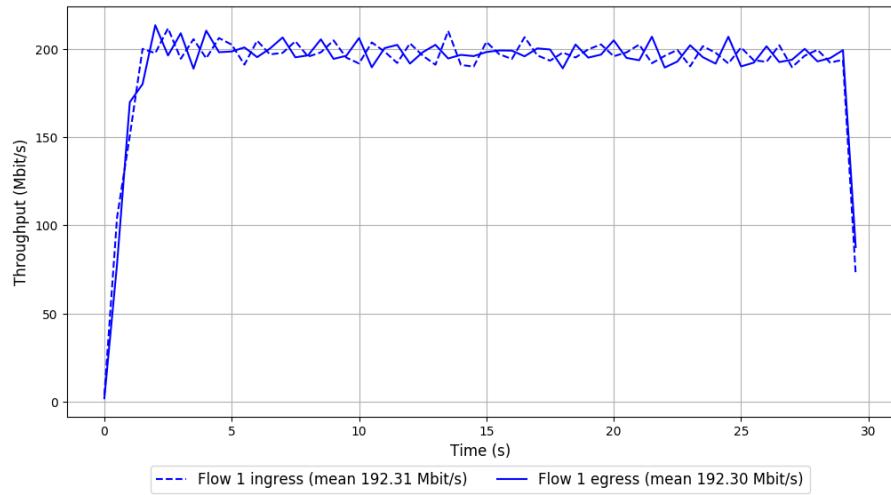
Run 3: Statistics of Indigo

Start at: 2018-01-09 03:15:43

End at: 2018-01-09 03:16:13

```
# Below is generated by plot.py at 2018-01-09 06:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.30 Mbit/s
95th percentile per-packet one-way delay: 53.701 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 192.30 Mbit/s
95th percentile per-packet one-way delay: 53.701 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo — Data Link



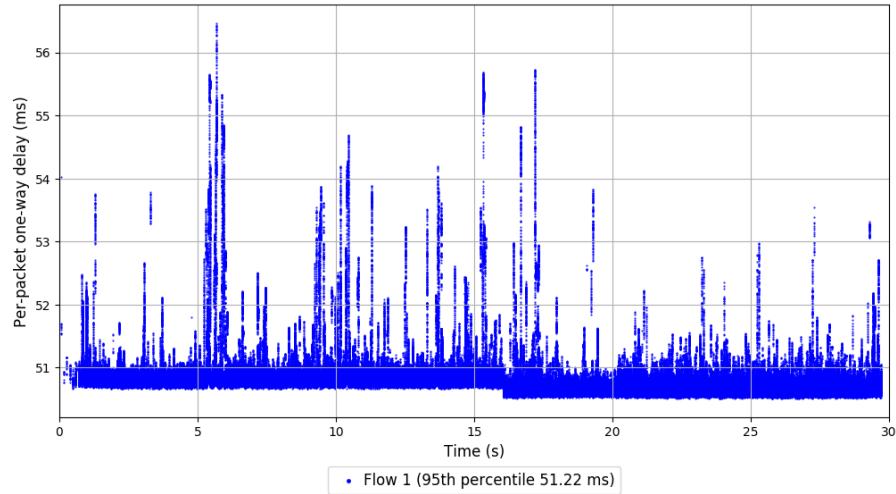
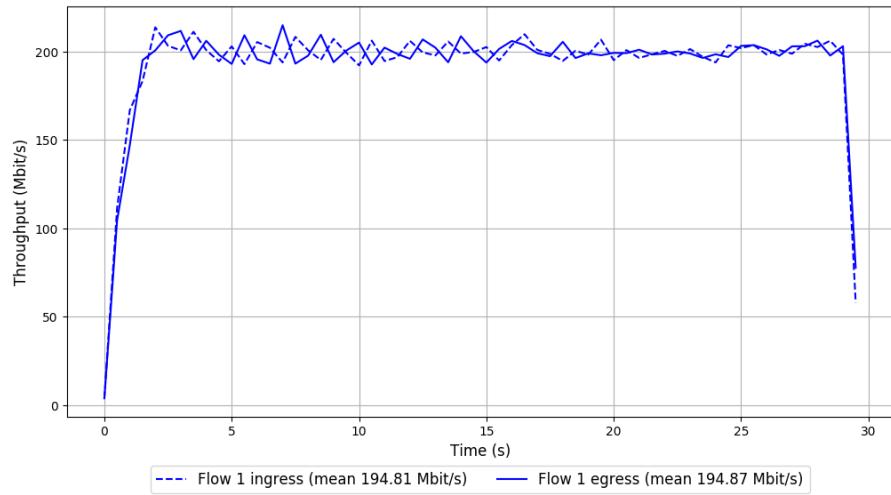
Run 4: Statistics of Indigo

Start at: 2018-01-09 03:27:01

End at: 2018-01-09 03:27:31

```
# Below is generated by plot.py at 2018-01-09 06:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.87 Mbit/s
95th percentile per-packet one-way delay: 51.224 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.87 Mbit/s
95th percentile per-packet one-way delay: 51.224 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link



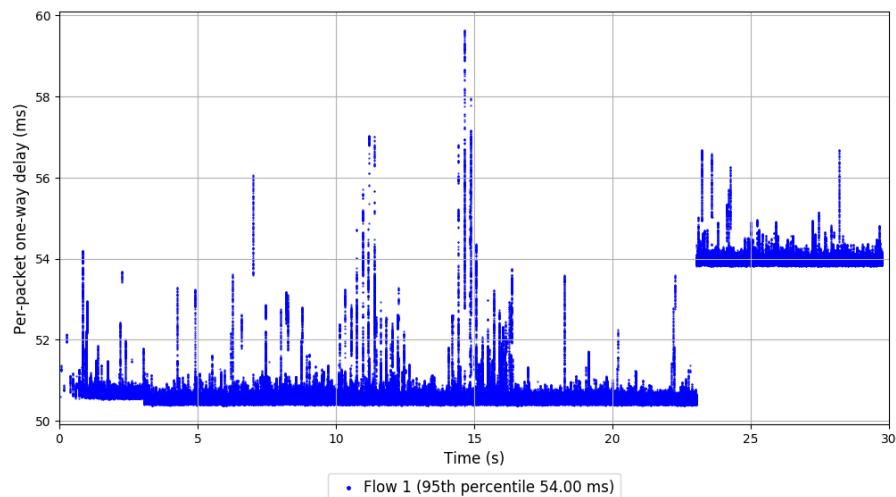
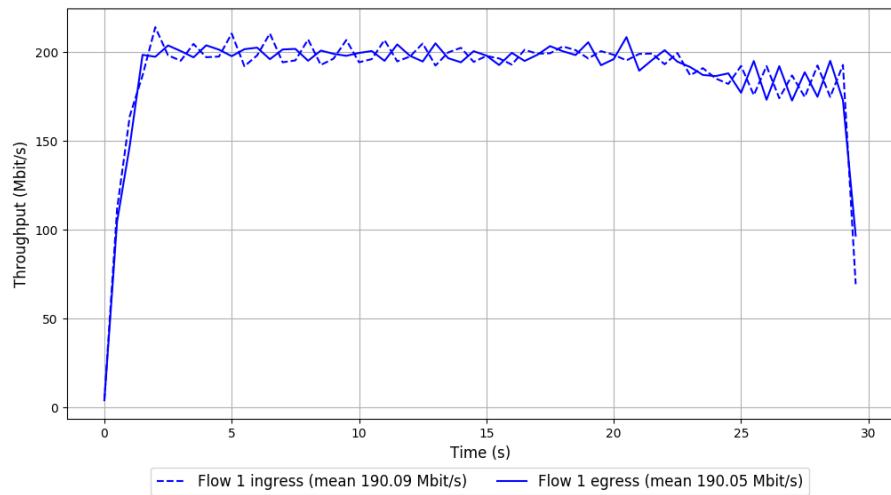
Run 5: Statistics of Indigo

Start at: 2018-01-09 03:38:14

End at: 2018-01-09 03:38:45

```
# Below is generated by plot.py at 2018-01-09 06:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.05 Mbit/s
95th percentile per-packet one-way delay: 54.003 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 190.05 Mbit/s
95th percentile per-packet one-way delay: 54.003 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo — Data Link



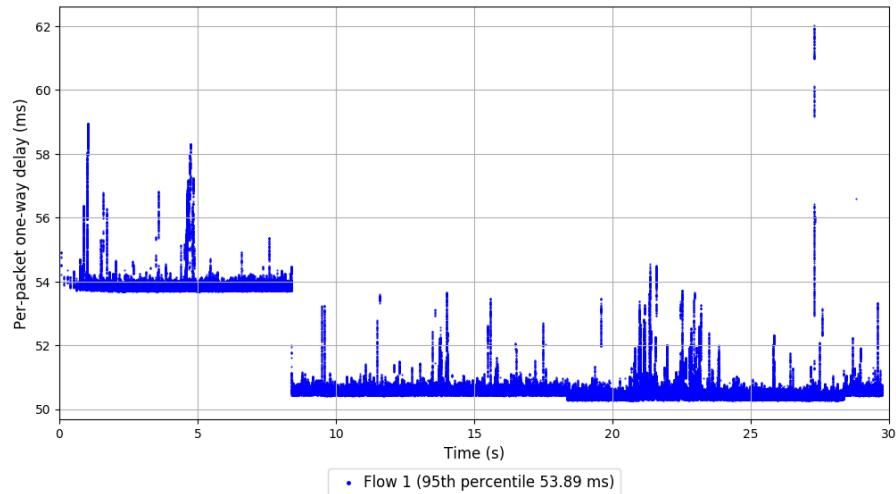
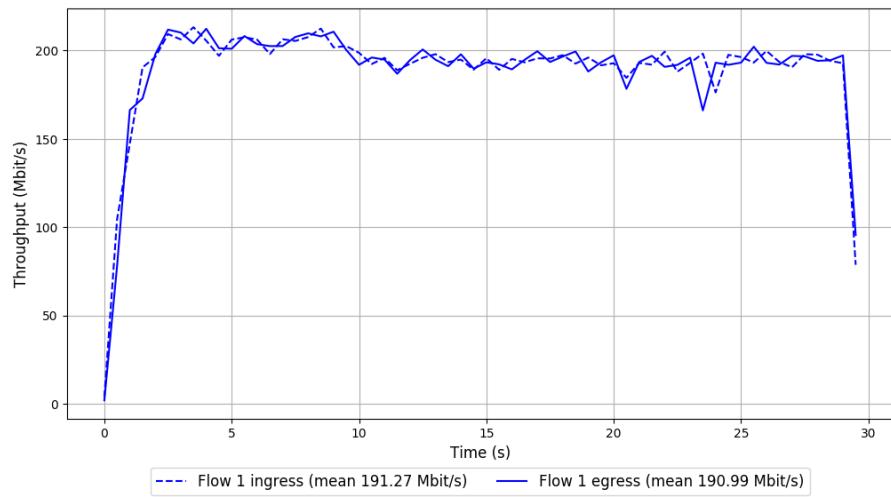
Run 6: Statistics of Indigo

Start at: 2018-01-09 03:49:29

End at: 2018-01-09 03:49:59

```
# Below is generated by plot.py at 2018-01-09 06:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.99 Mbit/s
95th percentile per-packet one-way delay: 53.888 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 190.99 Mbit/s
95th percentile per-packet one-way delay: 53.888 ms
Loss rate: 0.16%
```

Run 6: Report of Indigo — Data Link



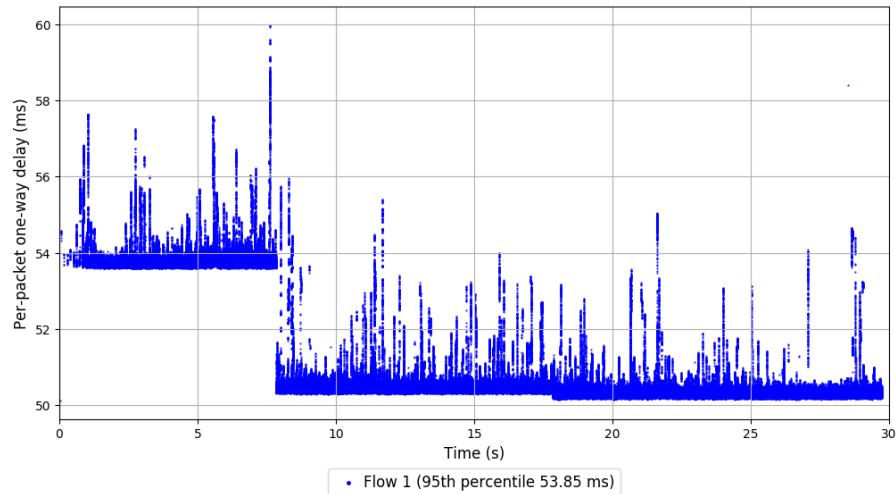
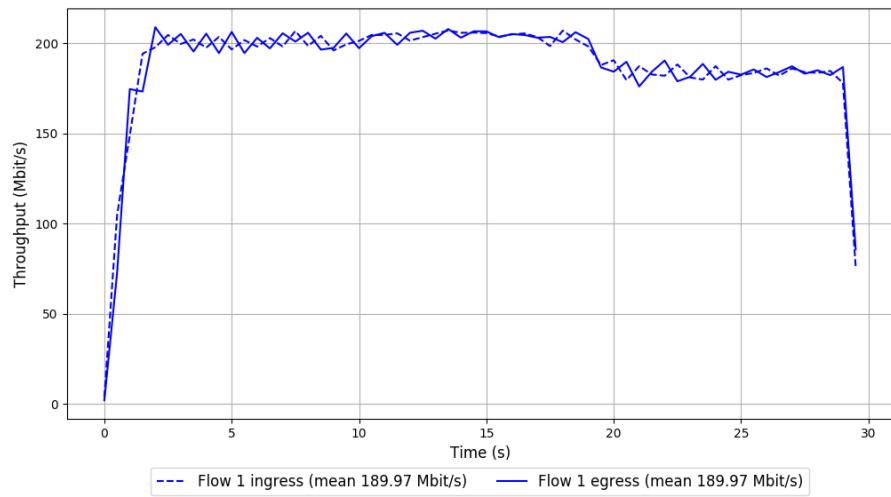
Run 7: Statistics of Indigo

Start at: 2018-01-09 04:00:30

End at: 2018-01-09 04:01:00

```
# Below is generated by plot.py at 2018-01-09 06:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.97 Mbit/s
95th percentile per-packet one-way delay: 53.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 189.97 Mbit/s
95th percentile per-packet one-way delay: 53.851 ms
Loss rate: 0.00%
```

Run 7: Report of Indigo — Data Link



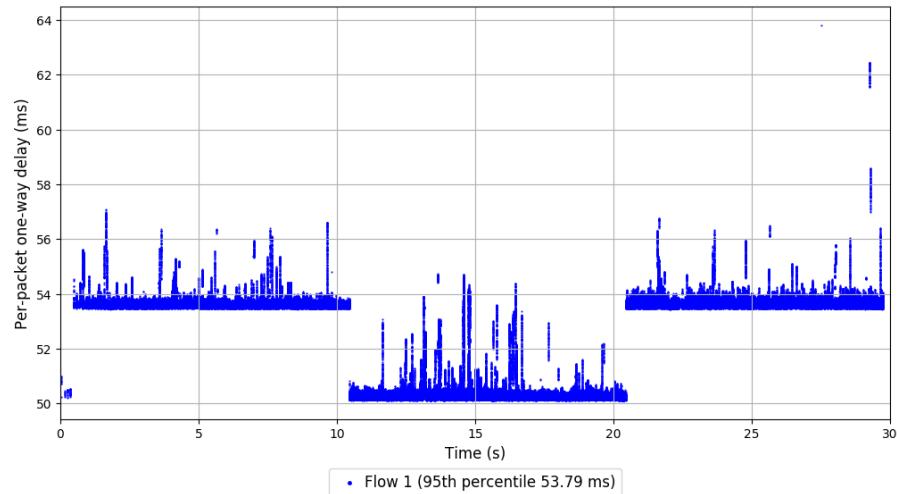
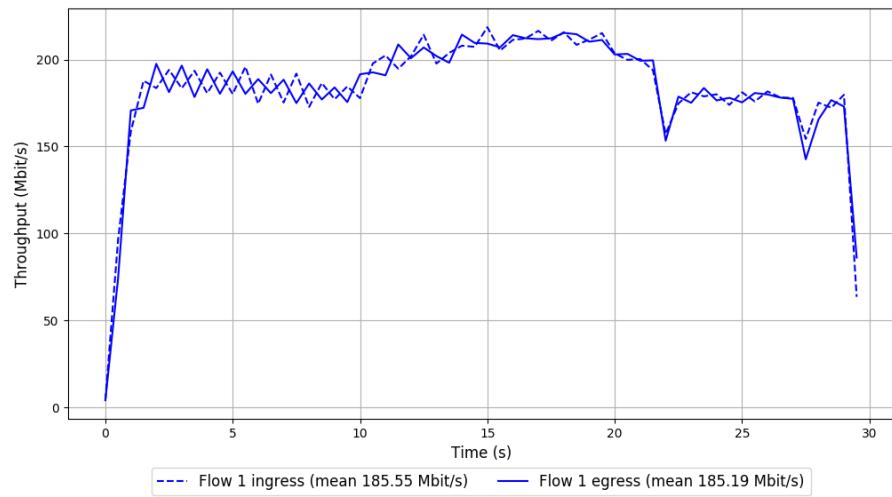
Run 8: Statistics of Indigo

Start at: 2018-01-09 04:11:47

End at: 2018-01-09 04:12:17

```
# Below is generated by plot.py at 2018-01-09 06:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.19 Mbit/s
95th percentile per-packet one-way delay: 53.793 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 185.19 Mbit/s
95th percentile per-packet one-way delay: 53.793 ms
Loss rate: 0.19%
```

Run 8: Report of Indigo — Data Link



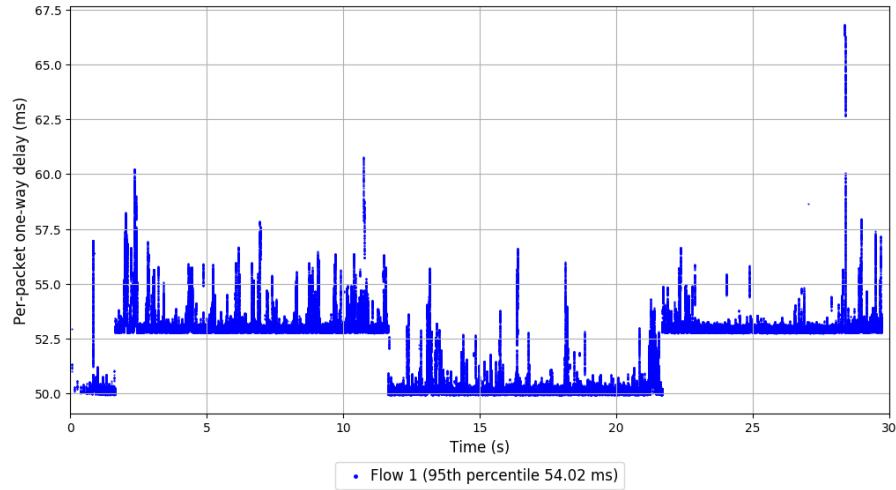
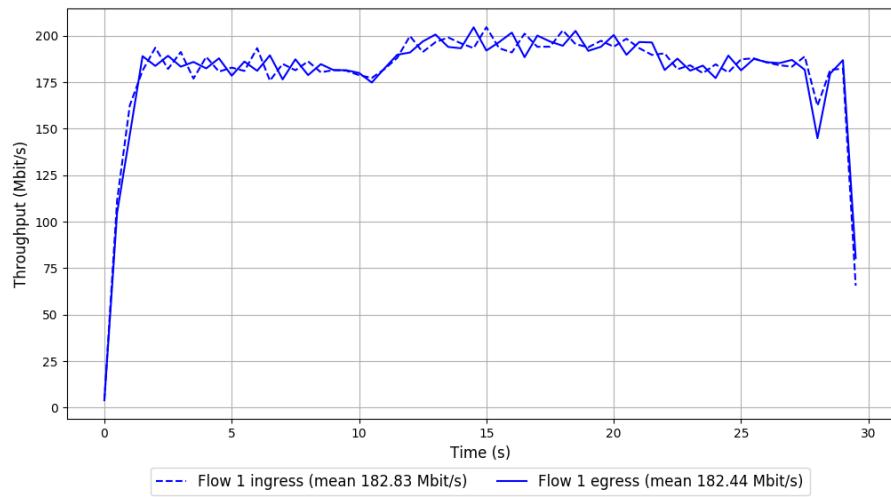
Run 9: Statistics of Indigo

Start at: 2018-01-09 04:23:26

End at: 2018-01-09 04:23:56

```
# Below is generated by plot.py at 2018-01-09 06:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.44 Mbit/s
95th percentile per-packet one-way delay: 54.019 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 182.44 Mbit/s
95th percentile per-packet one-way delay: 54.019 ms
Loss rate: 0.21%
```

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-09 04:34:54

End at: 2018-01-09 04:35:24

```
# Below is generated by plot.py at 2018-01-09 06:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.38 Mbit/s
95th percentile per-packet one-way delay: 53.594 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 187.38 Mbit/s
95th percentile per-packet one-way delay: 53.594 ms
Loss rate: 0.00%
```

Run 10: Report of Indigo — Data Link

