

## Pantheon Report

Generated at 2019-06-27 15:47:50 (UTC).

Data path: India on `em1` (*remote*) → AWS India 1 on `ens5` (*local*).

Repeated the test of 22 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

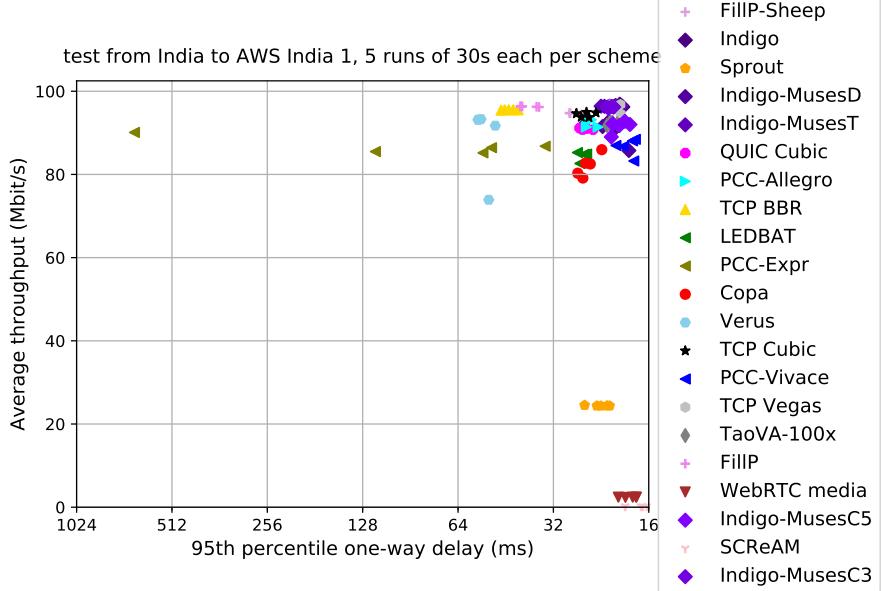
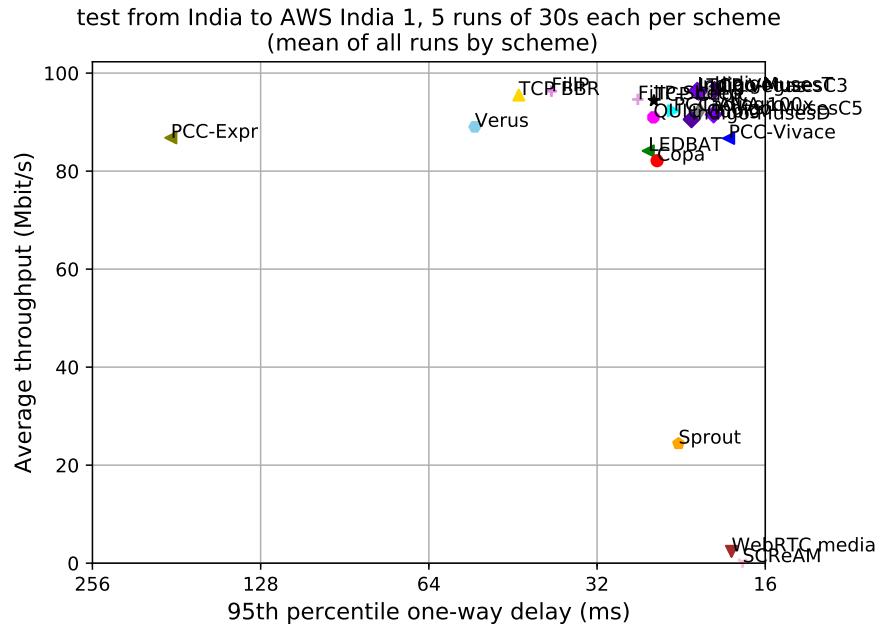
System info:

```
Linux 4.15.0-1039-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
M helpers/_init_.pyc
M helpers/context.py
M helpers/utils.py
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
```

```
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```



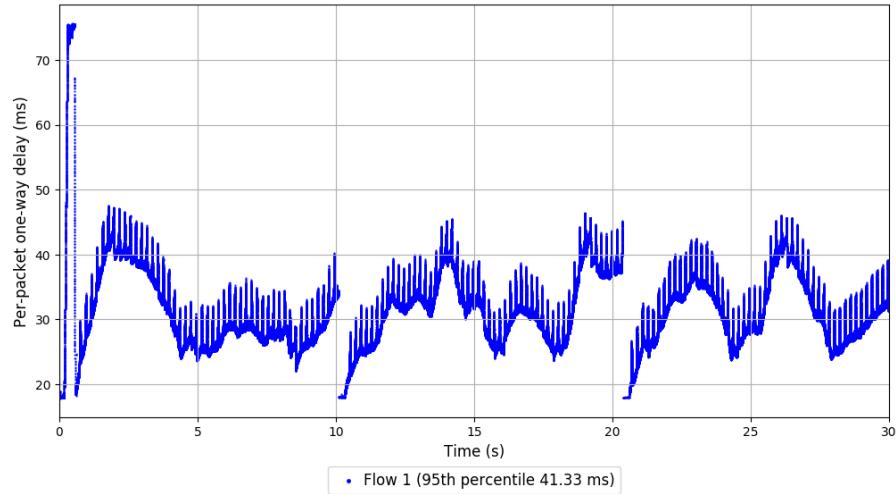
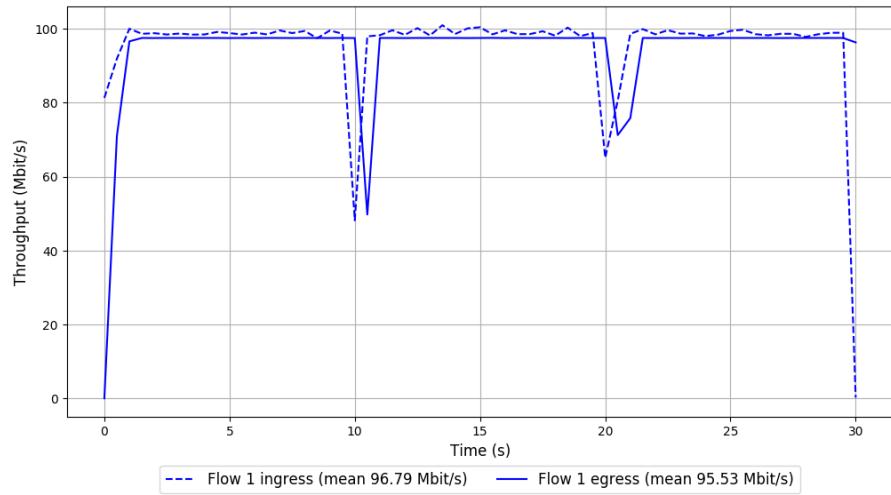
| scheme             | # runs | mean avg tput (Mbit/s)<br>flow 1 | mean 95th-%ile delay (ms)<br>flow 1 | mean loss rate (%)<br>flow 1 |
|--------------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR            | 5      | 95.53                            | 44.18                               | 1.55                         |
| Copa               | 5      | 82.12                            | 24.99                               | 0.08                         |
| TCP Cubic          | 5      | 94.37                            | 25.31                               | 0.11                         |
| FillP              | 5      | 96.31                            | 38.62                               | 0.28                         |
| FillP-Sheep        | 5      | 94.64                            | 27.05                               | 0.10                         |
| Indigo             | 5      | 96.57                            | 19.73                               | 0.09                         |
| Indigo-MusesC3     | 5      | 96.17                            | 21.07                               | 0.09                         |
| Indigo-MusesC5     | 5      | 91.54                            | 19.80                               | 0.09                         |
| Indigo-MusesD      | 5      | 90.54                            | 21.68                               | 0.09                         |
| Indigo-MusesT      | 5      | 96.41                            | 21.18                               | 0.09                         |
| LEDBAT             | 5      | 84.12                            | 25.92                               | 0.09                         |
| Muses_DecisionTree | 0      | N/A                              | N/A                                 | N/A                          |
| PCC-Allegro        | 5      | 92.32                            | 23.34                               | 0.10                         |
| PCC-Expr           | 5      | 86.80                            | 185.35                              | 1.24                         |
| QUIC Cubic         | 5      | 90.97                            | 25.37                               | 0.12                         |
| SCReAM             | 5      | 0.21                             | 17.57                               | 0.13                         |
| Sprout             | 5      | 24.40                            | 22.88                               | 0.09                         |
| TaoVA-100x         | 5      | 92.28                            | 20.98                               | 0.09                         |
| TCP Vegas          | 5      | 96.15                            | 20.39                               | 0.09                         |
| Verus              | 5      | 89.04                            | 52.96                               | 0.31                         |
| PCC-Vivace         | 5      | 86.68                            | 18.61                               | 0.09                         |
| WebRTC media       | 5      | 2.40                             | 18.39                               | 0.10                         |

Run 1: Statistics of TCP BBR

```
Start at: 2019-06-27 13:12:52
End at: 2019-06-27 13:13:22
Local clock offset: -0.152 ms
Remote clock offset: -2.949 ms

# Below is generated by plot.py at 2019-06-27 15:33:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 41.326 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 41.326 ms
Loss rate: 1.38%
```

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

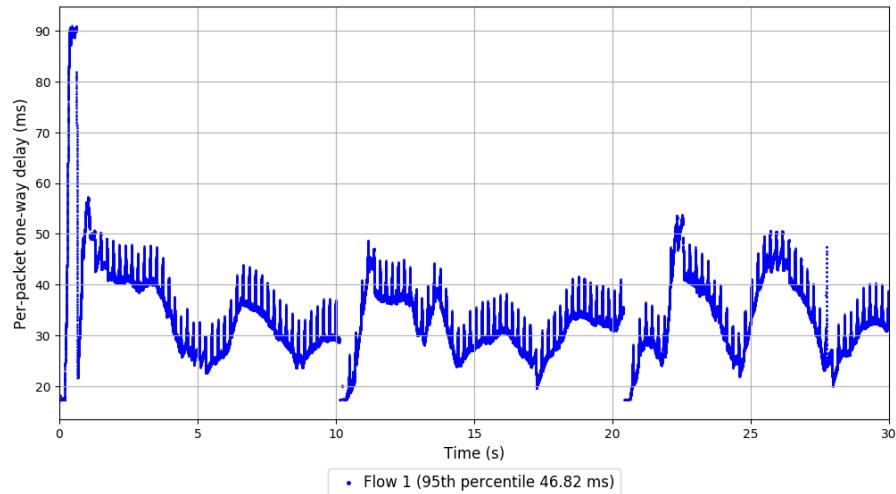
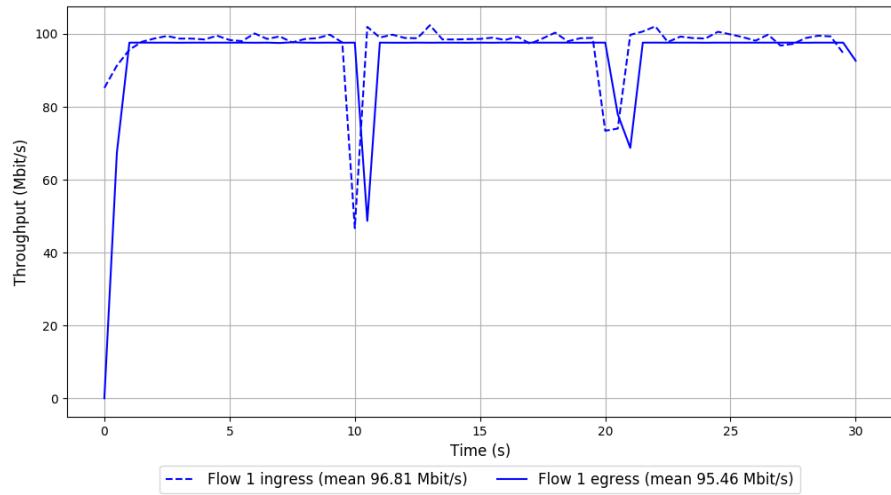


Run 2: Statistics of TCP BBR

```
Start at: 2019-06-27 13:40:11
End at: 2019-06-27 13:40:41
Local clock offset: -1.127 ms
Remote clock offset: -4.409 ms

# Below is generated by plot.py at 2019-06-27 15:33:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 46.816 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 46.816 ms
Loss rate: 1.48%
```

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

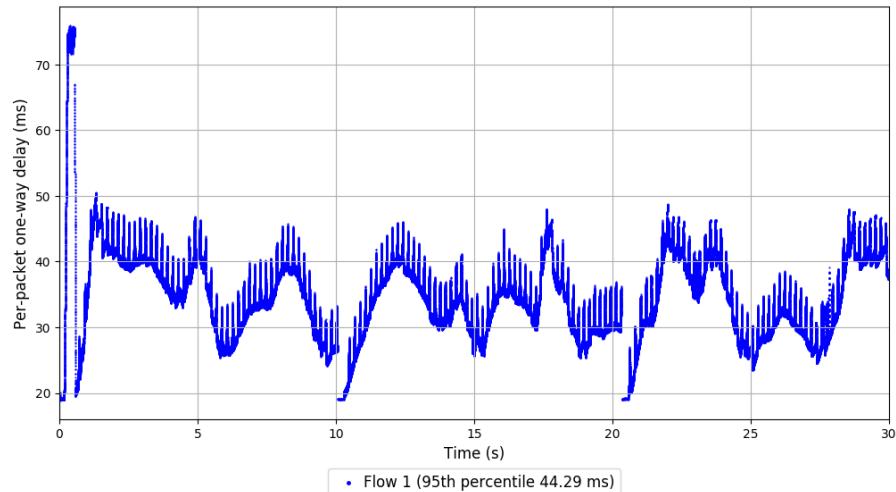
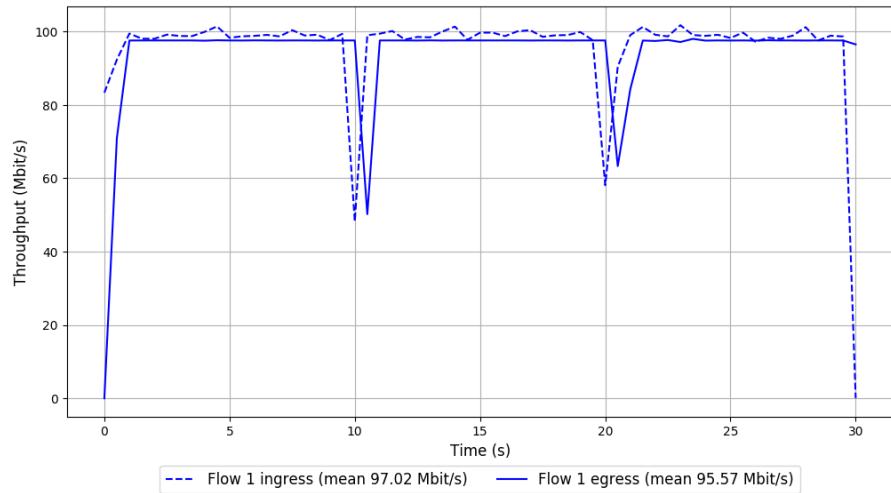


Run 3: Statistics of TCP BBR

```
Start at: 2019-06-27 14:08:10
End at: 2019-06-27 14:08:40
Local clock offset: -0.63 ms
Remote clock offset: -6.294 ms

# Below is generated by plot.py at 2019-06-27 15:33:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.57 Mbit/s
95th percentile per-packet one-way delay: 44.290 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 95.57 Mbit/s
95th percentile per-packet one-way delay: 44.290 ms
Loss rate: 1.58%
```

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

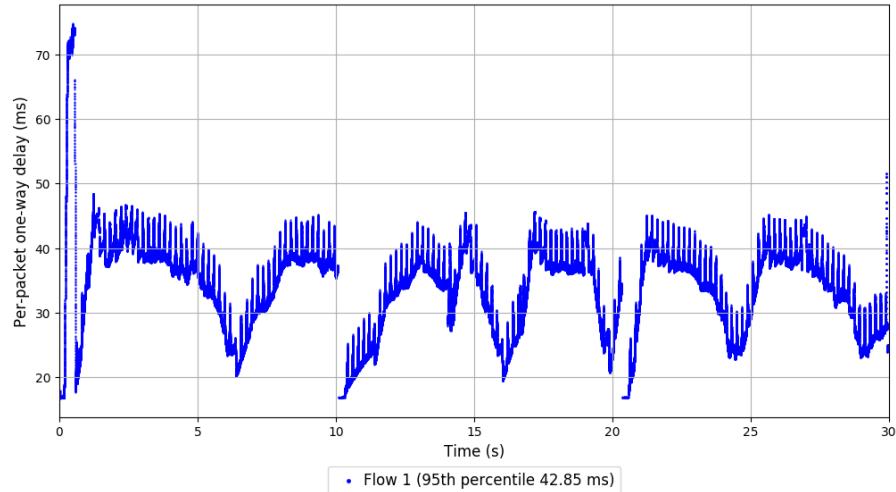
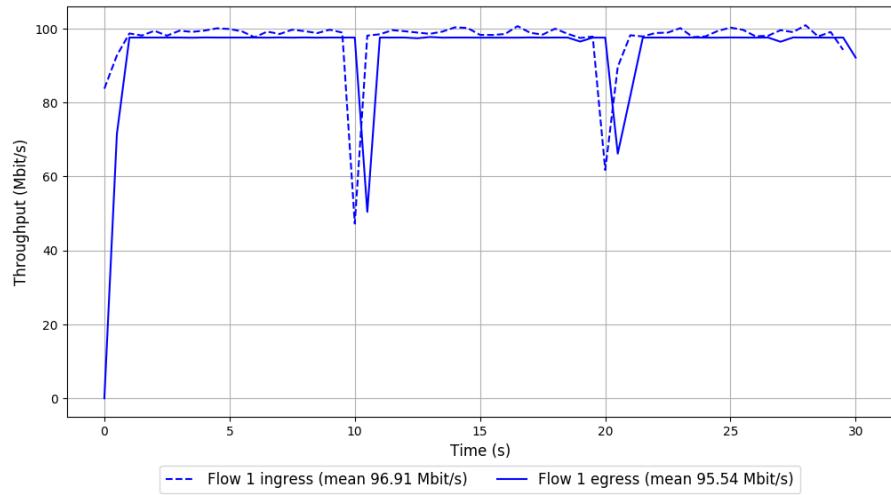


Run 4: Statistics of TCP BBR

```
Start at: 2019-06-27 14:36:04
End at: 2019-06-27 14:36:34
Local clock offset: -0.011 ms
Remote clock offset: -3.765 ms

# Below is generated by plot.py at 2019-06-27 15:33:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 42.853 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 42.853 ms
Loss rate: 1.50%
```

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

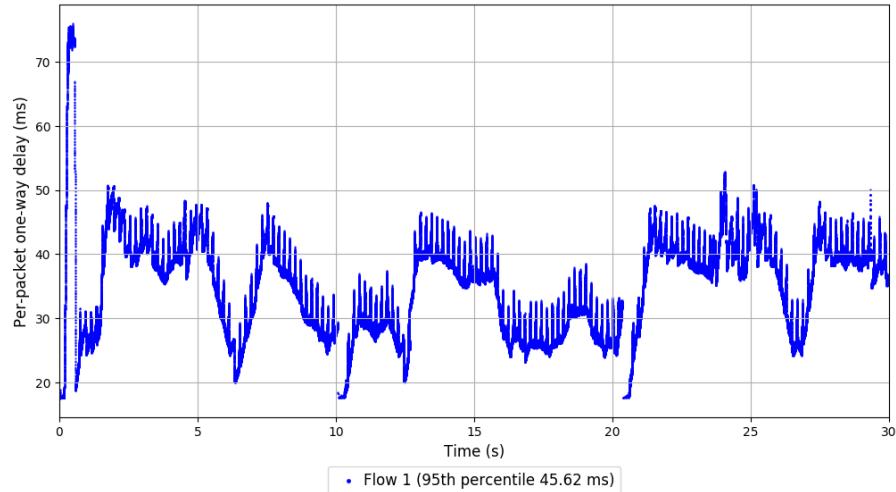
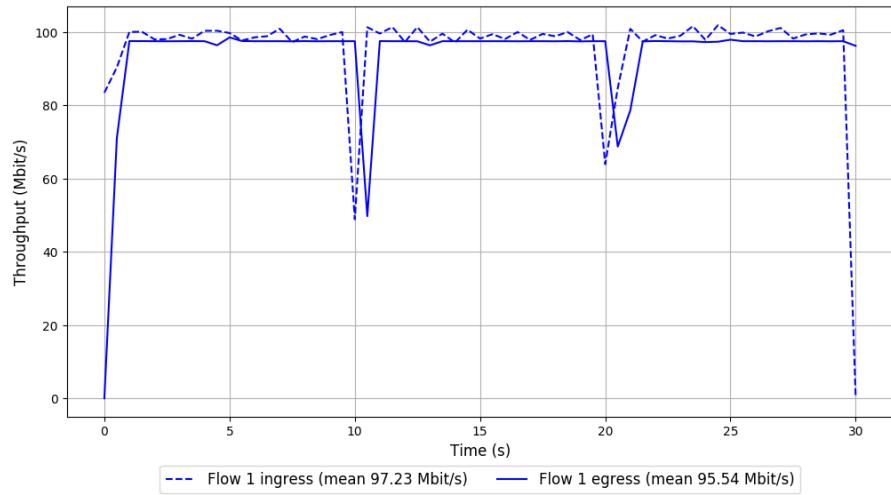


Run 5: Statistics of TCP BBR

```
Start at: 2019-06-27 15:03:54
End at: 2019-06-27 15:04:24
Local clock offset: -0.997 ms
Remote clock offset: -5.812 ms

# Below is generated by plot.py at 2019-06-27 15:33:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 45.616 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 45.616 ms
Loss rate: 1.83%
```

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

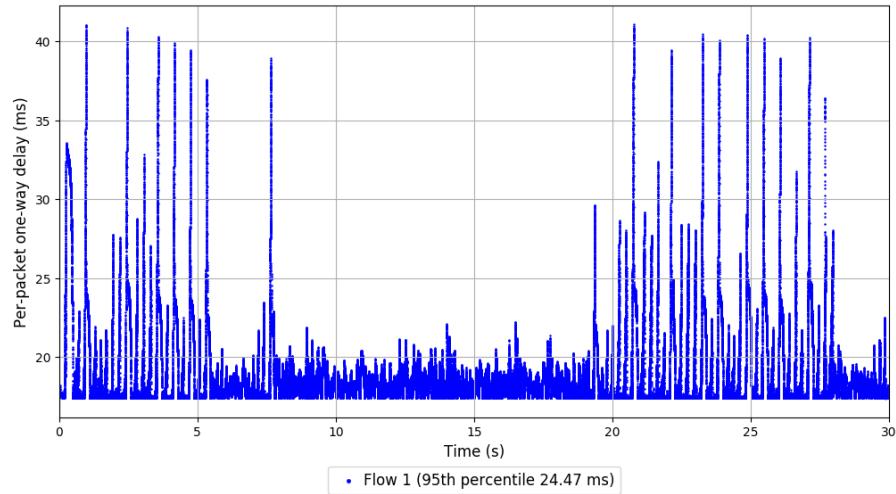
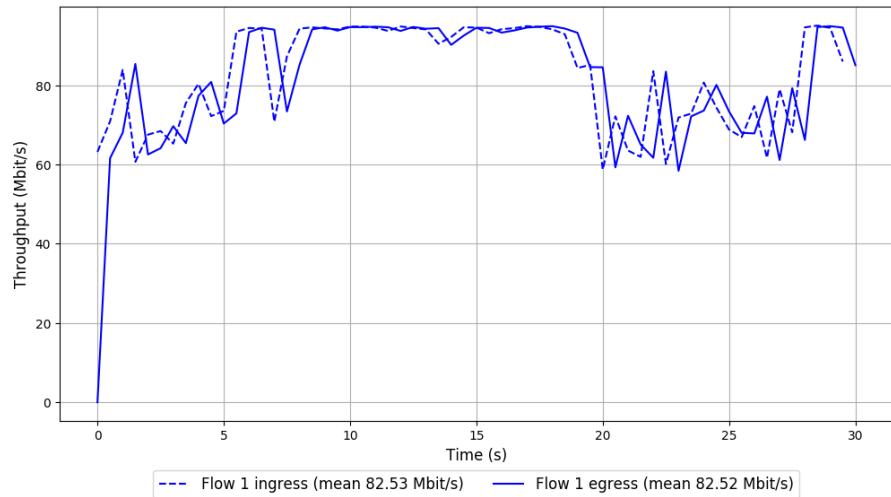


Run 1: Statistics of Copa

```
Start at: 2019-06-27 13:19:15
End at: 2019-06-27 13:19:45
Local clock offset: -1.155 ms
Remote clock offset: -3.702 ms

# Below is generated by plot.py at 2019-06-27 15:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.52 Mbit/s
95th percentile per-packet one-way delay: 24.474 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 82.52 Mbit/s
95th percentile per-packet one-way delay: 24.474 ms
Loss rate: 0.09%
```

### Run 1: Report of Copa — Data Link

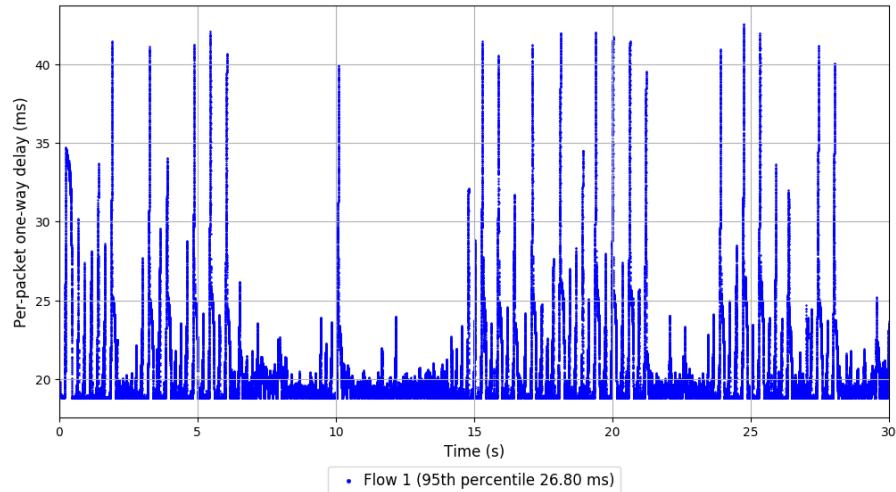
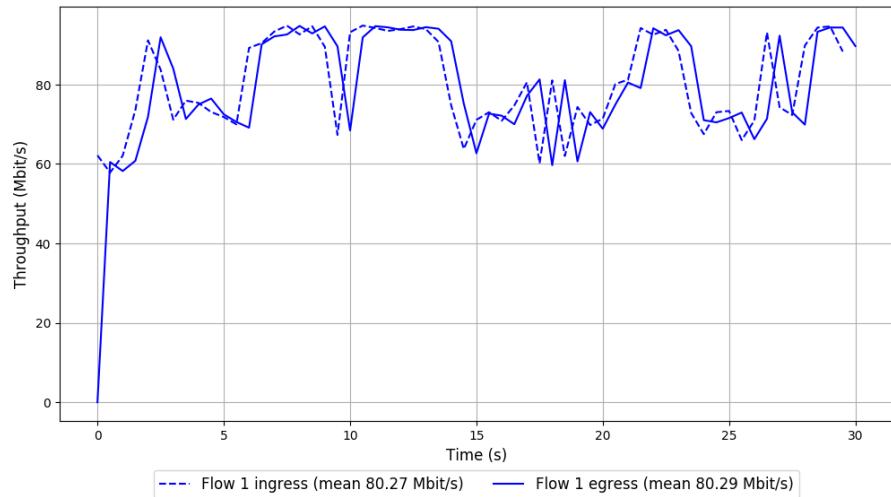


Run 2: Statistics of Copa

```
Start at: 2019-06-27 13:46:41
End at: 2019-06-27 13:47:11
Local clock offset: -0.443 ms
Remote clock offset: -5.473 ms

# Below is generated by plot.py at 2019-06-27 15:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.29 Mbit/s
95th percentile per-packet one-way delay: 26.804 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 80.29 Mbit/s
95th percentile per-packet one-way delay: 26.804 ms
Loss rate: 0.05%
```

## Run 2: Report of Copa — Data Link

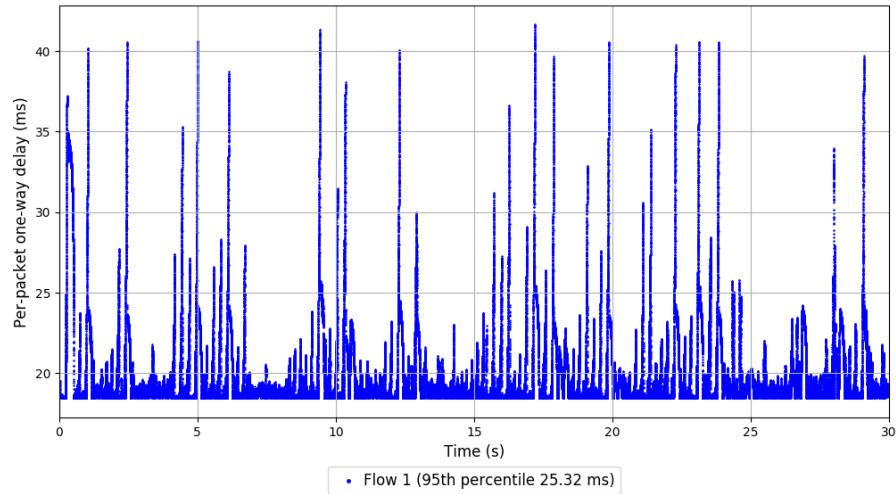
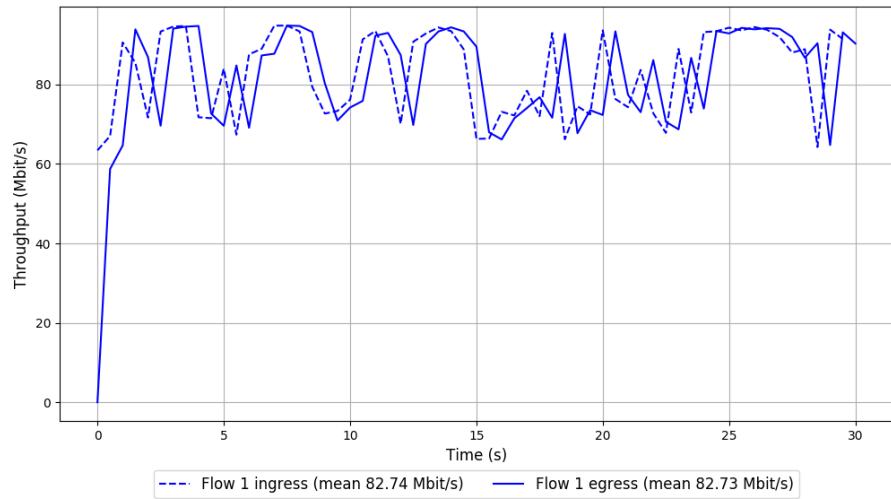


Run 3: Statistics of Copa

```
Start at: 2019-06-27 14:14:19
End at: 2019-06-27 14:14:49
Local clock offset: -0.983 ms
Remote clock offset: -6.213 ms

# Below is generated by plot.py at 2019-06-27 15:34:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.73 Mbit/s
95th percentile per-packet one-way delay: 25.320 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 82.73 Mbit/s
95th percentile per-packet one-way delay: 25.320 ms
Loss rate: 0.10%
```

### Run 3: Report of Copa — Data Link

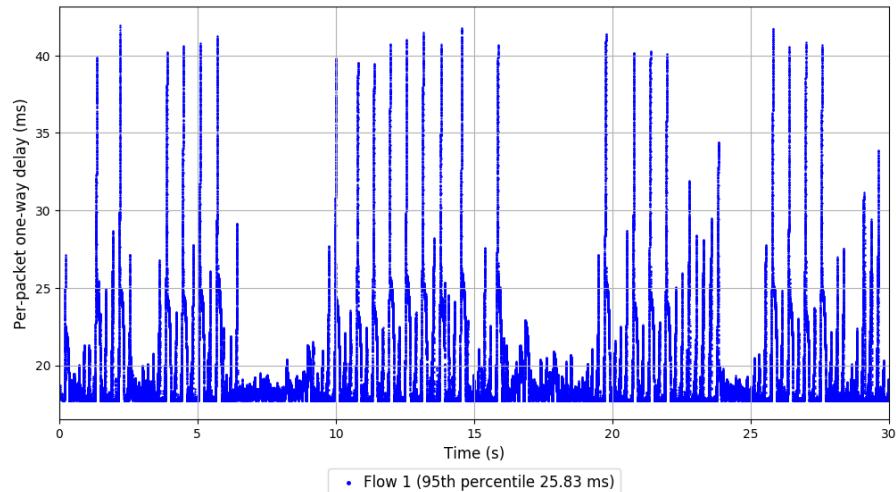
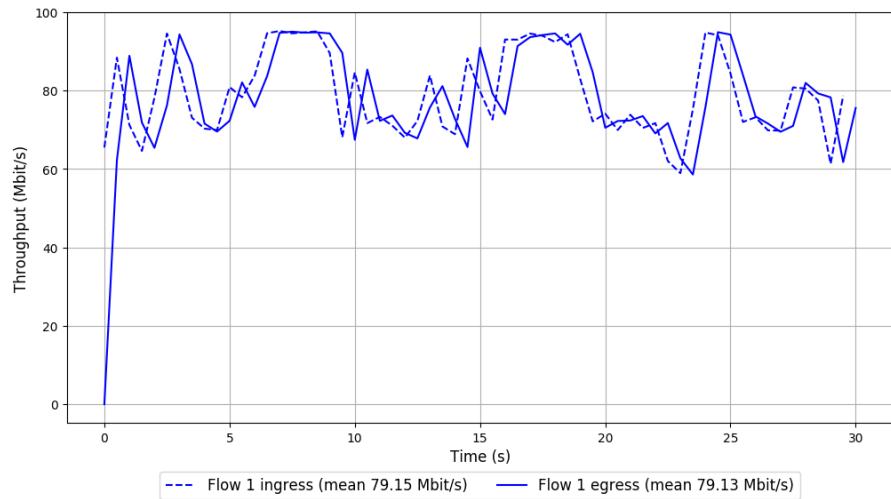


Run 4: Statistics of Copa

```
Start at: 2019-06-27 14:42:18
End at: 2019-06-27 14:42:48
Local clock offset: -0.837 ms
Remote clock offset: -5.688 ms

# Below is generated by plot.py at 2019-06-27 15:35:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.13 Mbit/s
95th percentile per-packet one-way delay: 25.829 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 79.13 Mbit/s
95th percentile per-packet one-way delay: 25.829 ms
Loss rate: 0.11%
```

### Run 4: Report of Copa — Data Link

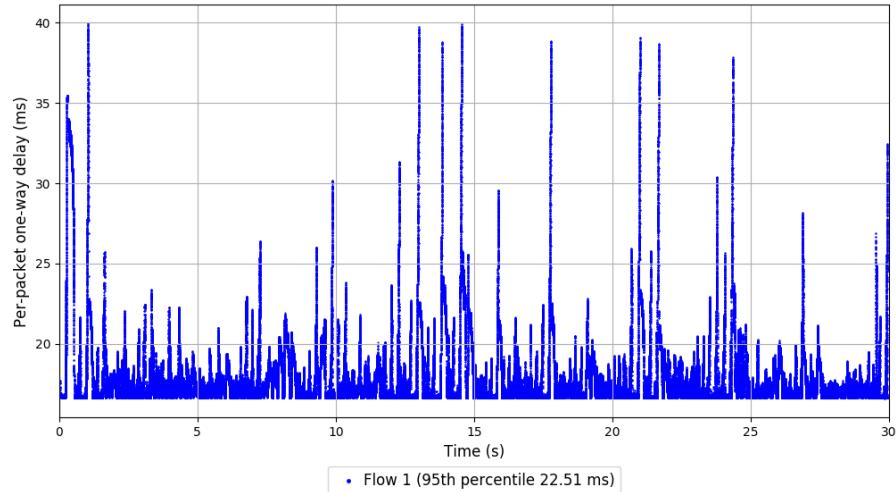
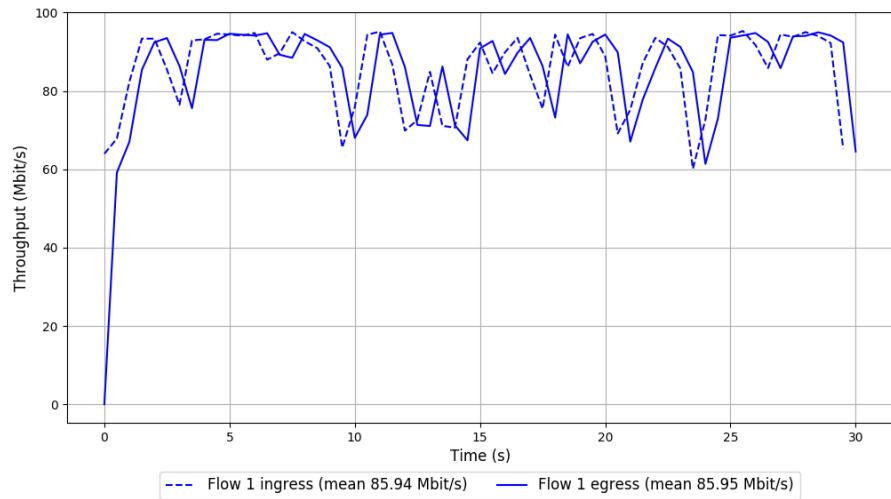


Run 5: Statistics of Copa

```
Start at: 2019-06-27 15:10:28
End at: 2019-06-27 15:10:58
Local clock offset: -0.69 ms
Remote clock offset: -4.822 ms

# Below is generated by plot.py at 2019-06-27 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.95 Mbit/s
95th percentile per-packet one-way delay: 22.514 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 85.95 Mbit/s
95th percentile per-packet one-way delay: 22.514 ms
Loss rate: 0.07%
```

### Run 5: Report of Copa — Data Link

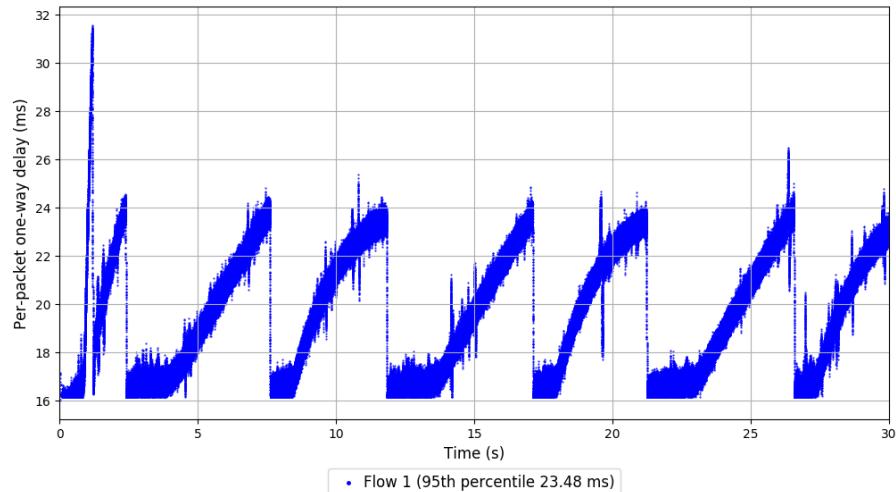
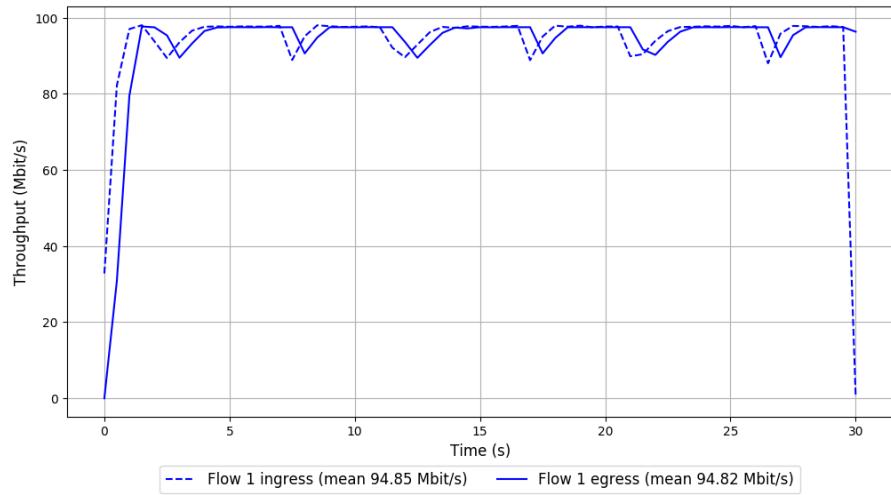


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-06-27 13:15:32
End at: 2019-06-27 13:16:02
Local clock offset: -1.433 ms
Remote clock offset: -2.598 ms

# Below is generated by plot.py at 2019-06-27 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 23.478 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 23.478 ms
Loss rate: 0.11%
```

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

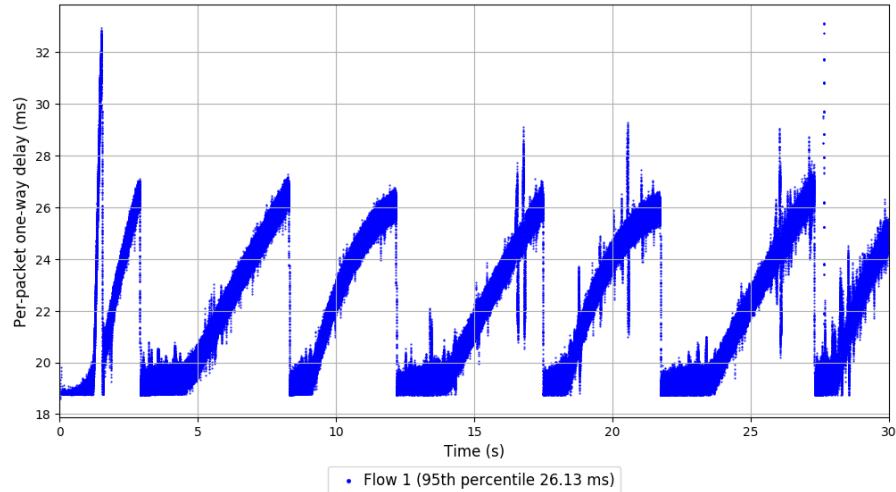
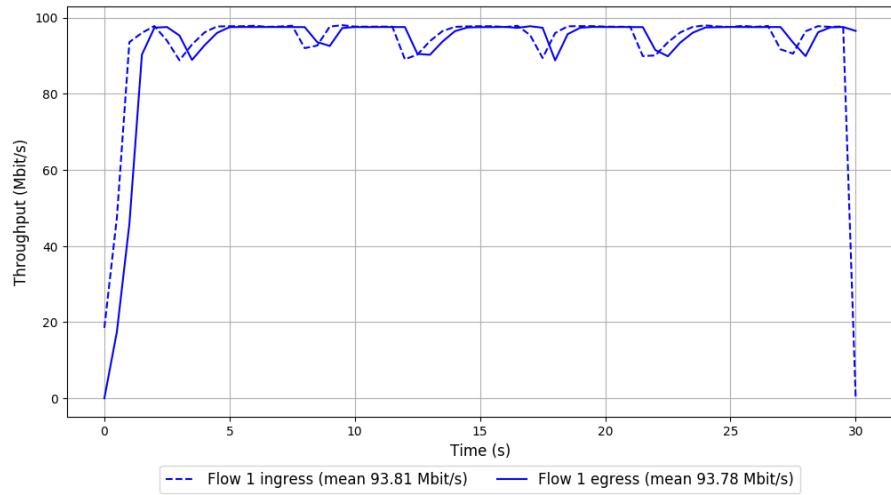


Run 2: Statistics of TCP Cubic

```
Start at: 2019-06-27 13:42:45
End at: 2019-06-27 13:43:15
Local clock offset: -0.721 ms
Remote clock offset: -5.529 ms

# Below is generated by plot.py at 2019-06-27 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 26.127 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 26.127 ms
Loss rate: 0.11%
```

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

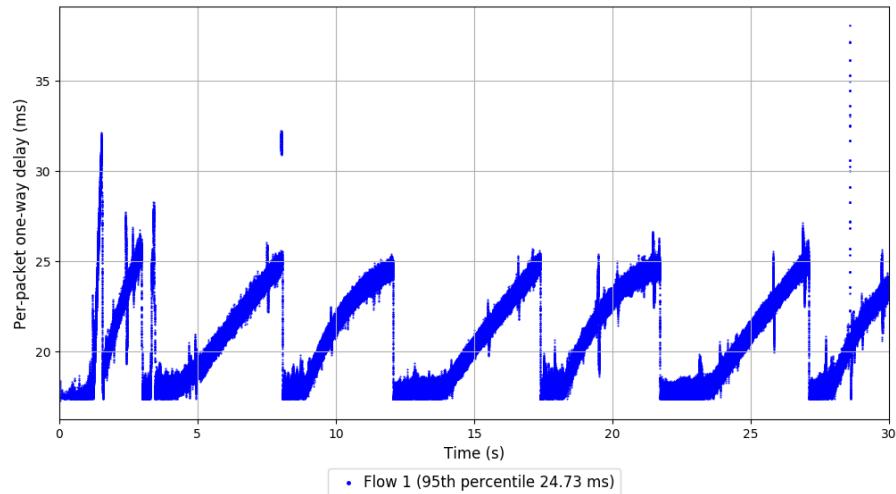
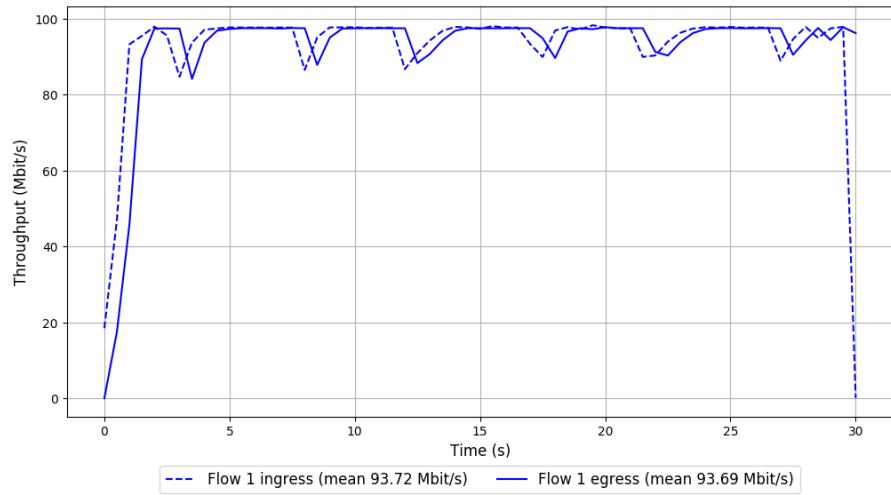


Run 3: Statistics of TCP Cubic

```
Start at: 2019-06-27 14:10:38
End at: 2019-06-27 14:11:08
Local clock offset: -0.458 ms
Remote clock offset: -4.521 ms

# Below is generated by plot.py at 2019-06-27 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 24.729 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 24.729 ms
Loss rate: 0.11%
```

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

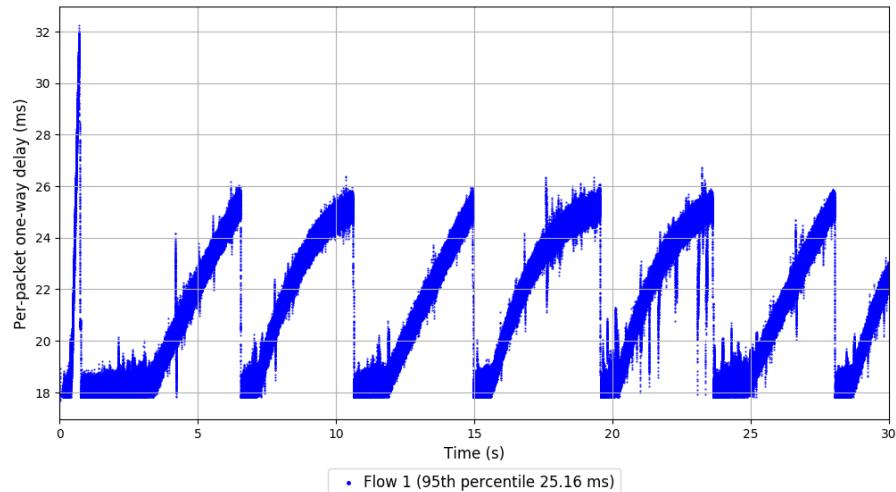
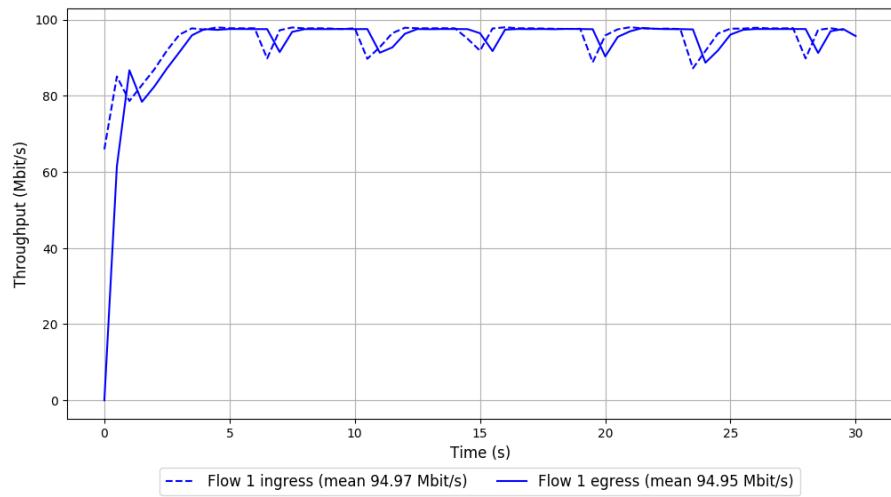


Run 4: Statistics of TCP Cubic

```
Start at: 2019-06-27 14:38:41
End at: 2019-06-27 14:39:11
Local clock offset: -0.182 ms
Remote clock offset: -5.003 ms

# Below is generated by plot.py at 2019-06-27 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.95 Mbit/s
95th percentile per-packet one-way delay: 25.159 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 94.95 Mbit/s
95th percentile per-packet one-way delay: 25.159 ms
Loss rate: 0.10%
```

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

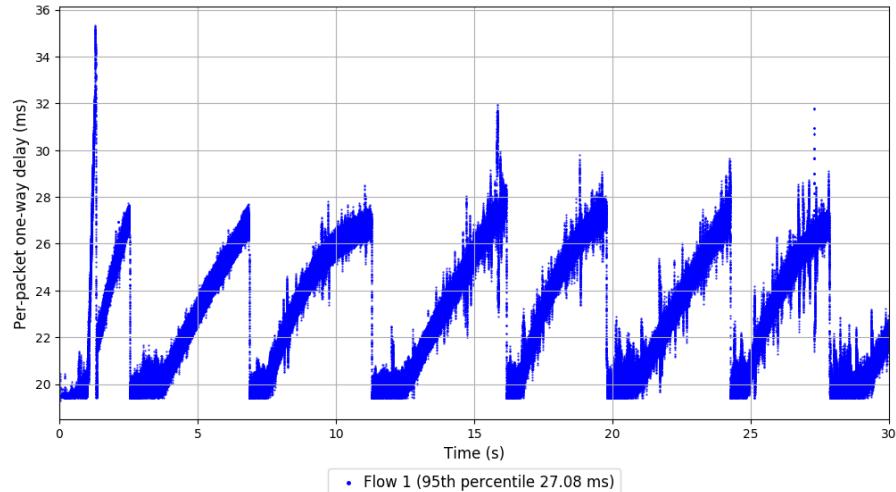
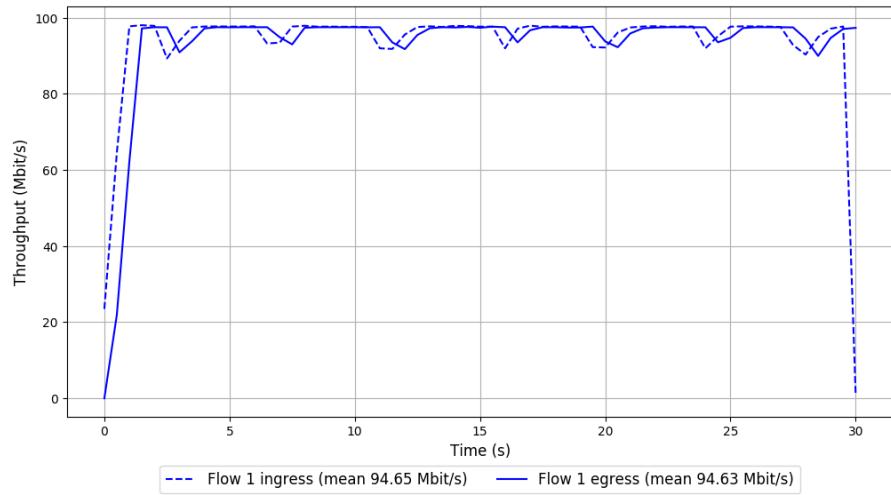


Run 5: Statistics of TCP Cubic

```
Start at: 2019-06-27 15:06:45
End at: 2019-06-27 15:07:15
Local clock offset: -0.156 ms
Remote clock offset: -6.878 ms

# Below is generated by plot.py at 2019-06-27 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 27.078 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 27.078 ms
Loss rate: 0.10%
```

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

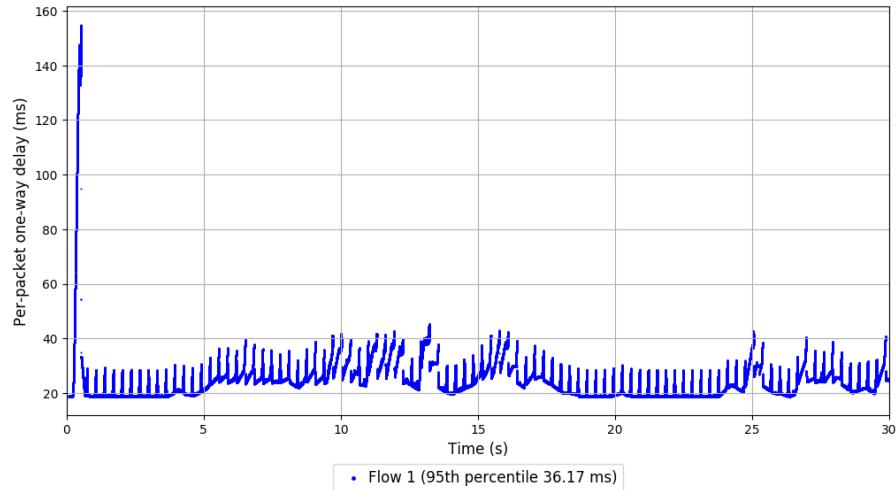
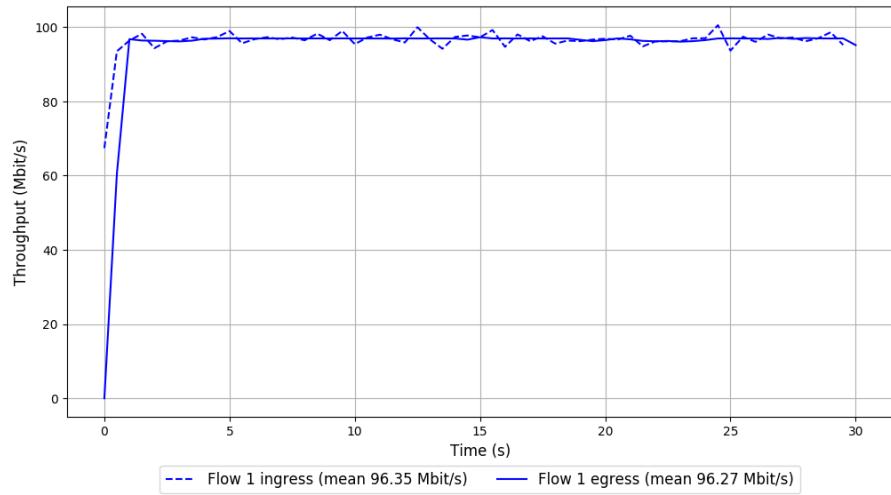


```
Run 1: Statistics of FillP
```

```
Start at: 2019-06-27 13:30:03
End at: 2019-06-27 13:30:33
Local clock offset: -0.614 ms
Remote clock offset: -5.225 ms

# Below is generated by plot.py at 2019-06-27 15:36:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 36.171 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 36.171 ms
Loss rate: 0.16%
```

### Run 1: Report of FillP — Data Link

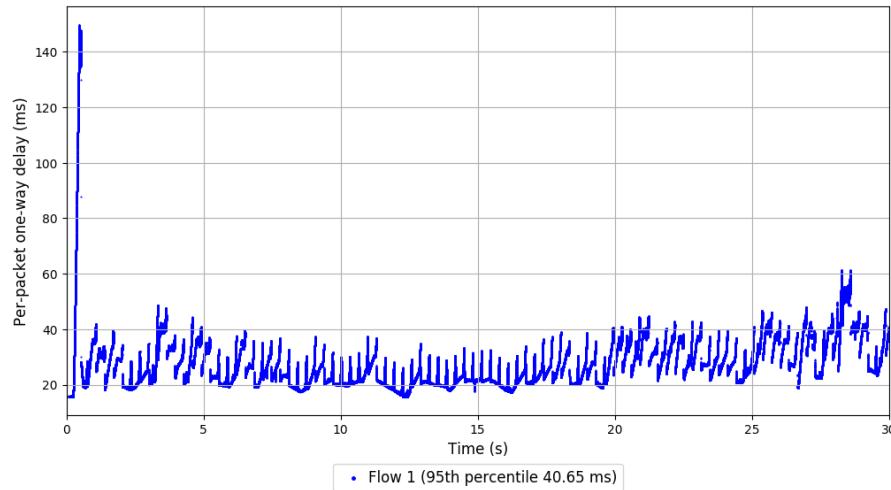
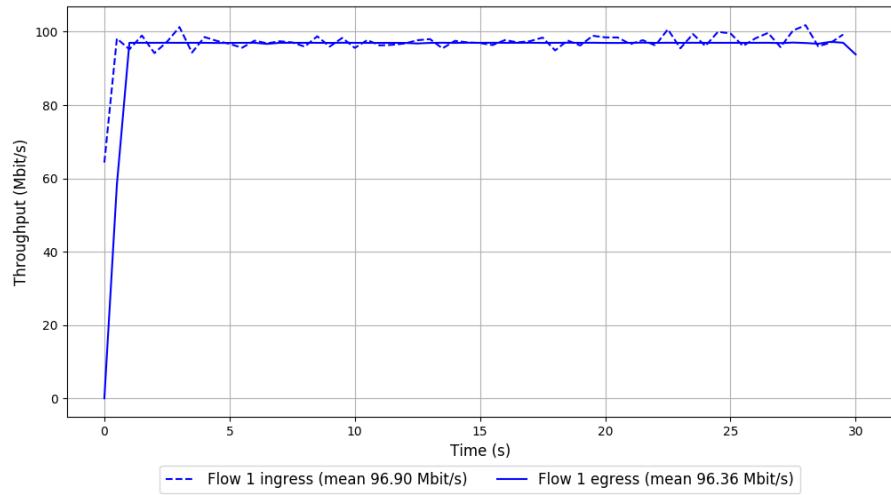


Run 2: Statistics of FillP

```
Start at: 2019-06-27 13:57:50
End at: 2019-06-27 13:58:20
Local clock offset: -1.206 ms
Remote clock offset: -3.536 ms

# Below is generated by plot.py at 2019-06-27 15:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 40.652 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 40.652 ms
Loss rate: 0.63%
```

## Run 2: Report of FillP — Data Link

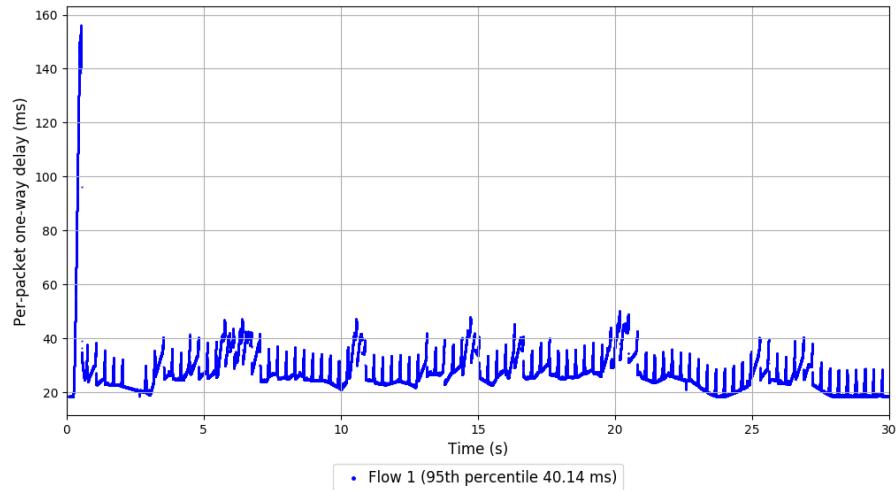
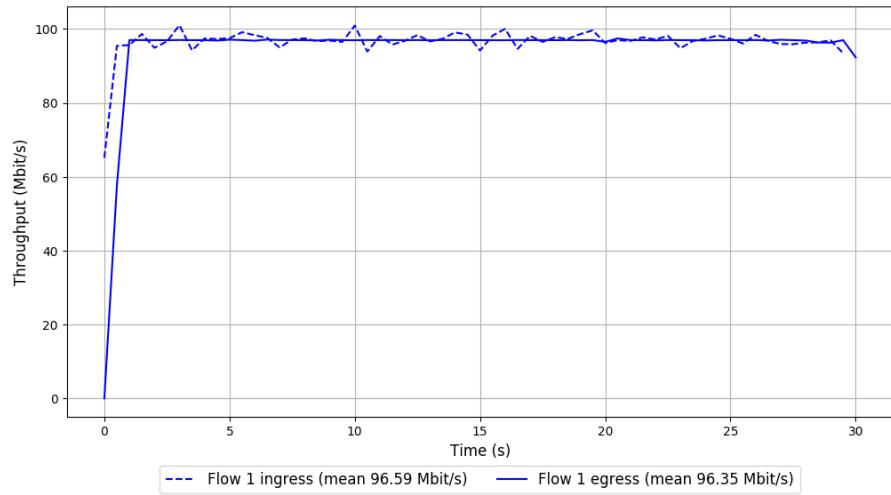


Run 3: Statistics of FillP

```
Start at: 2019-06-27 14:25:19
End at: 2019-06-27 14:25:49
Local clock offset: -0.545 ms
Remote clock offset: -5.95 ms

# Below is generated by plot.py at 2019-06-27 15:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 40.143 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 40.143 ms
Loss rate: 0.33%
```

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

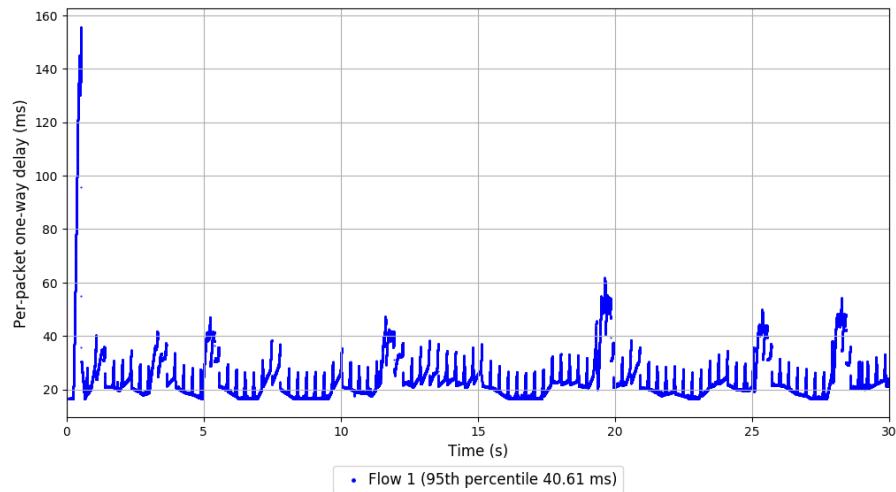
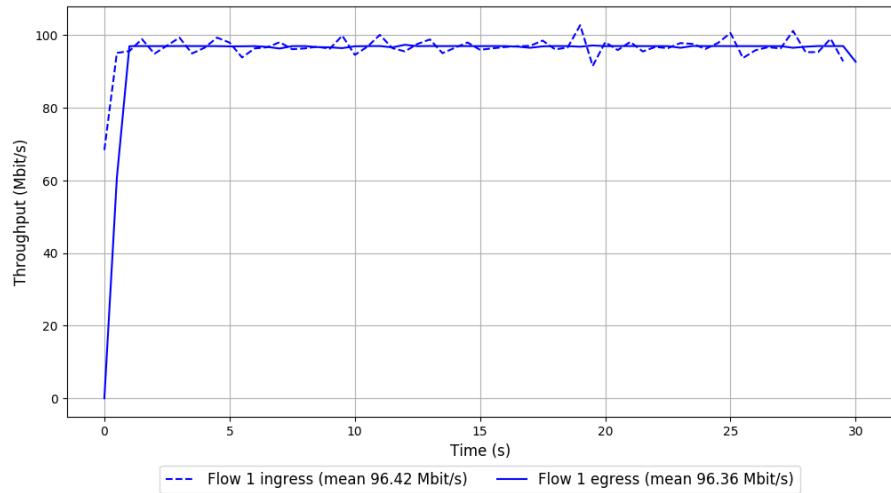


Run 4: Statistics of FillP

```
Start at: 2019-06-27 14:53:14
End at: 2019-06-27 14:53:44
Local clock offset: -0.817 ms
Remote clock offset: -4.695 ms

# Below is generated by plot.py at 2019-06-27 15:36:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 40.613 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 40.613 ms
Loss rate: 0.15%
```

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

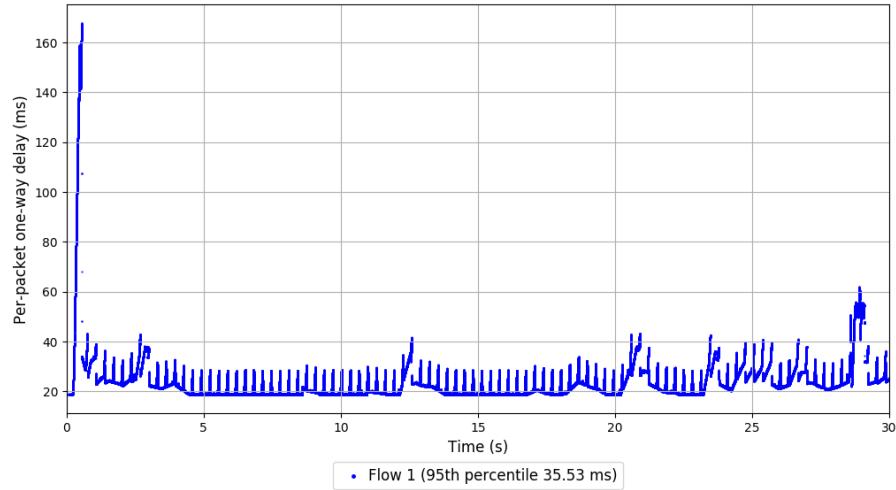
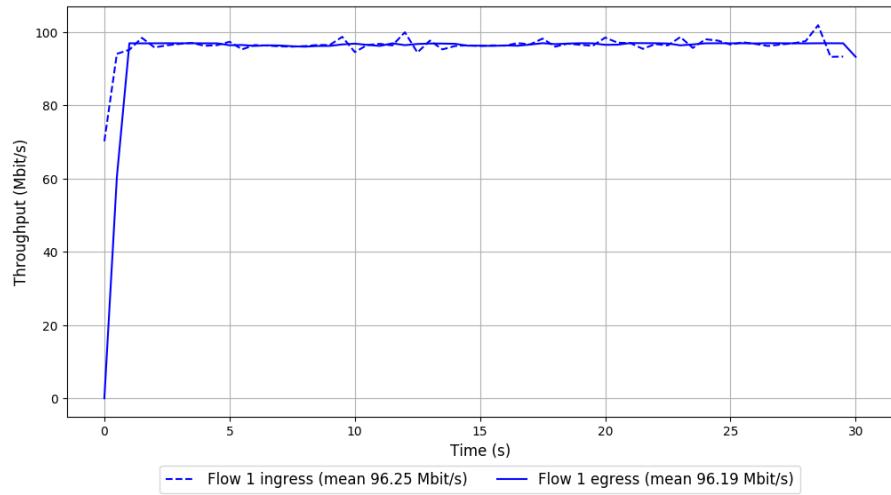


Run 5: Statistics of FillP

```
Start at: 2019-06-27 15:23:26
End at: 2019-06-27 15:23:56
Local clock offset: 0.52 ms
Remote clock offset: -6.197 ms

# Below is generated by plot.py at 2019-06-27 15:36:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 35.528 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 35.528 ms
Loss rate: 0.13%
```

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

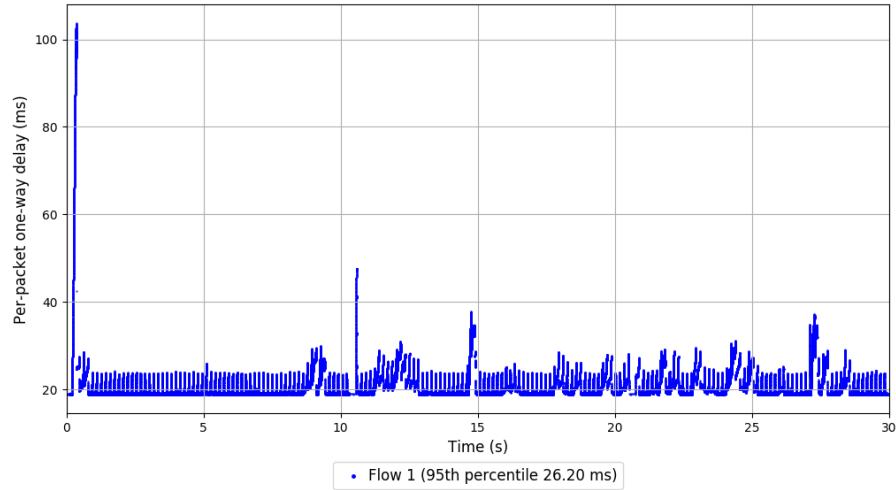
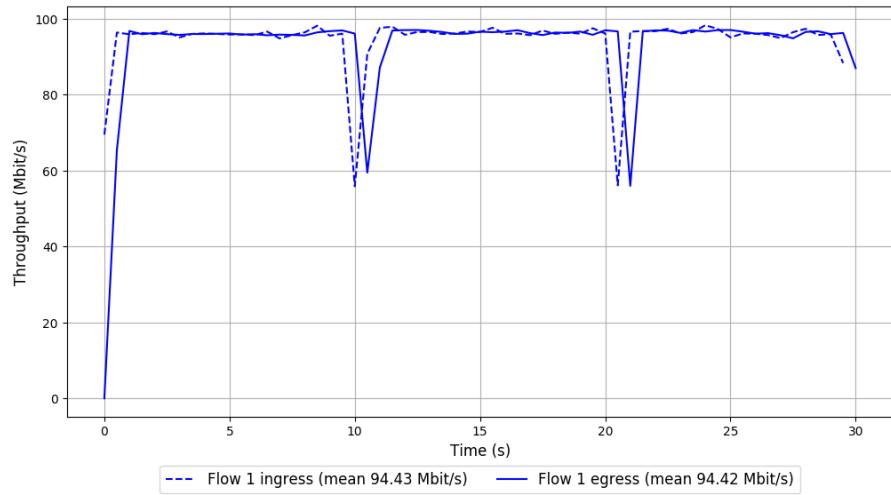


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-06-27 13:31:14
End at: 2019-06-27 13:31:44
Local clock offset: -0.85 ms
Remote clock offset: -5.753 ms

# Below is generated by plot.py at 2019-06-27 15:36:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 26.205 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 26.205 ms
Loss rate: 0.09%
```

### Run 1: Report of FillP-Sheep — Data Link

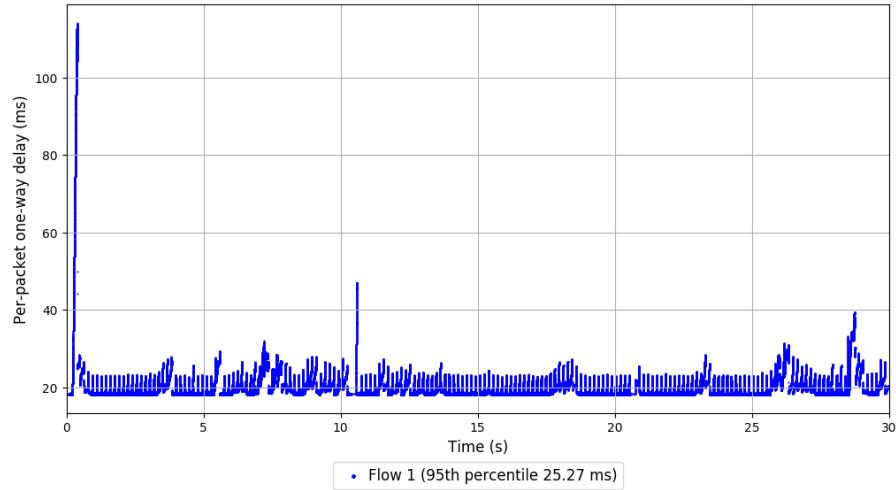
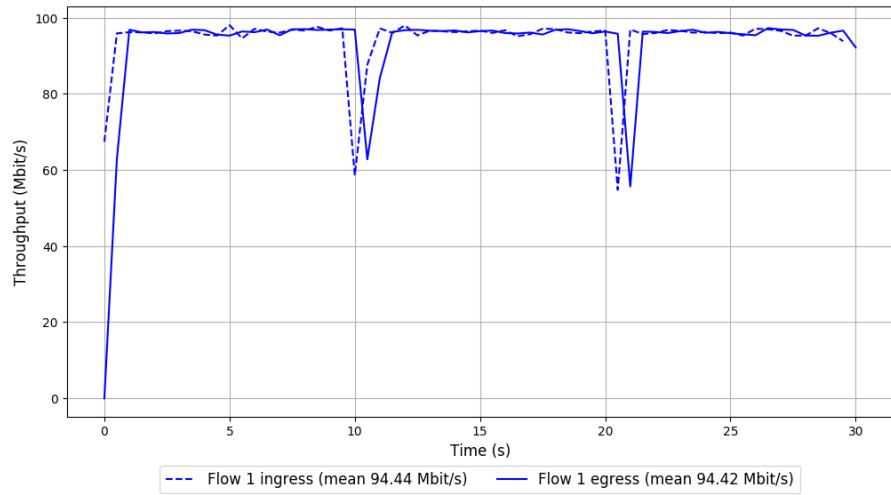


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-06-27 13:59:07
End at: 2019-06-27 13:59:37
Local clock offset: -0.994 ms
Remote clock offset: -5.772 ms

# Below is generated by plot.py at 2019-06-27 15:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 25.268 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 25.268 ms
Loss rate: 0.10%
```

## Run 2: Report of FillP-Sheep — Data Link

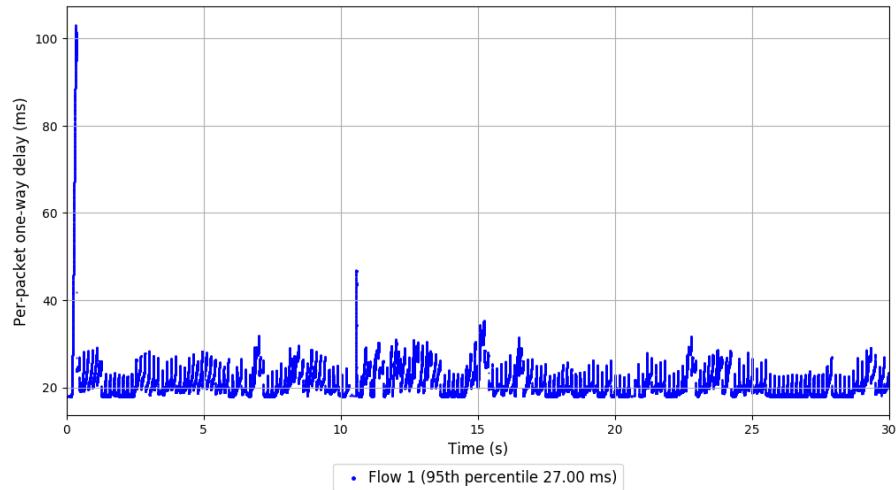
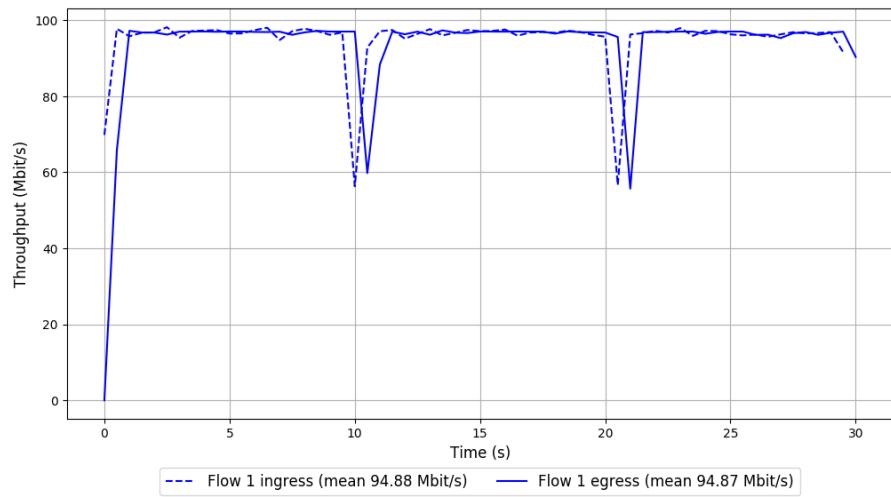


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-06-27 14:26:35
End at: 2019-06-27 14:27:05
Local clock offset: -0.807 ms
Remote clock offset: -5.721 ms

# Below is generated by plot.py at 2019-06-27 15:37:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.87 Mbit/s
95th percentile per-packet one-way delay: 27.003 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.87 Mbit/s
95th percentile per-packet one-way delay: 27.003 ms
Loss rate: 0.09%
```

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

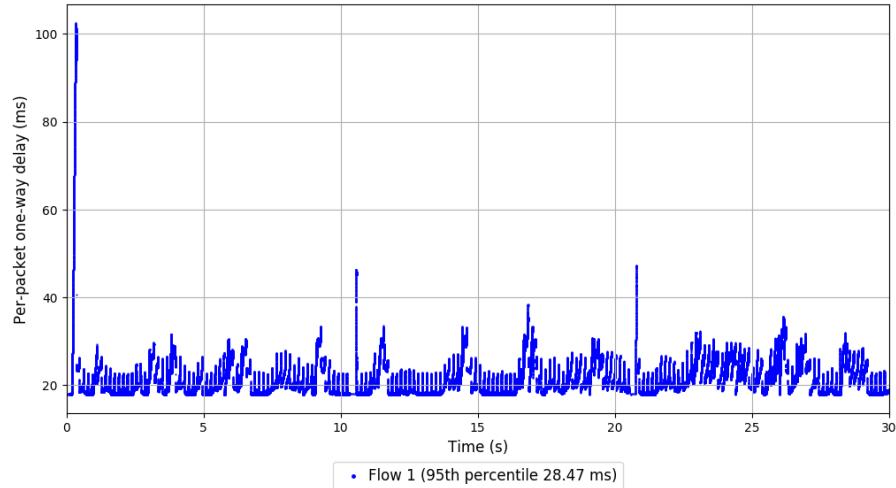
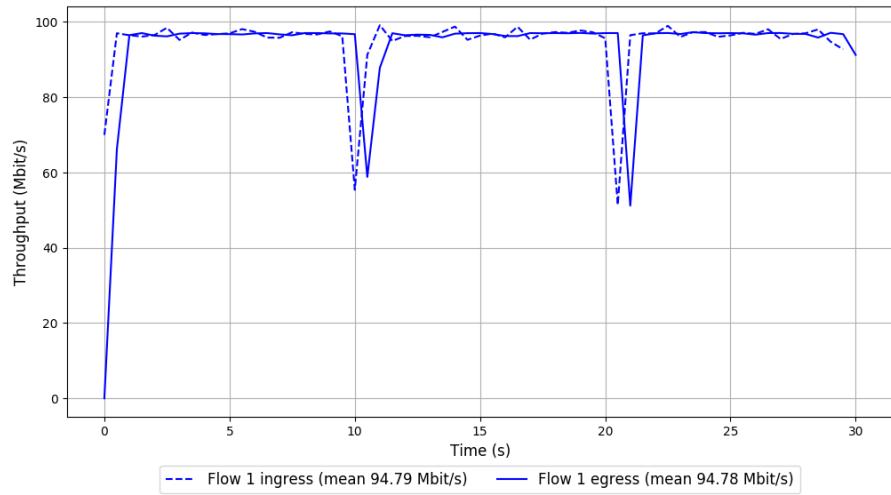


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-06-27 14:54:26
End at: 2019-06-27 14:54:56
Local clock offset: 0.37 ms
Remote clock offset: -4.917 ms

# Below is generated by plot.py at 2019-06-27 15:37:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 28.473 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 28.473 ms
Loss rate: 0.09%
```

Run 4: Report of FillP-Sheep — Data Link

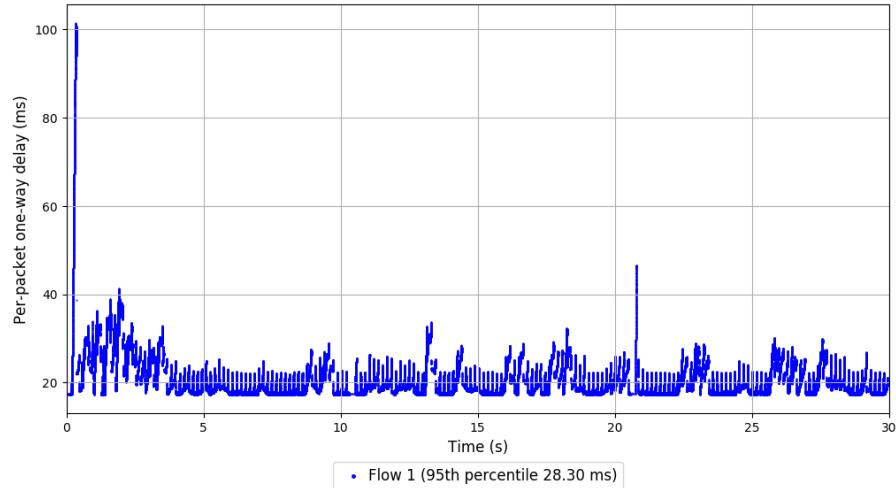
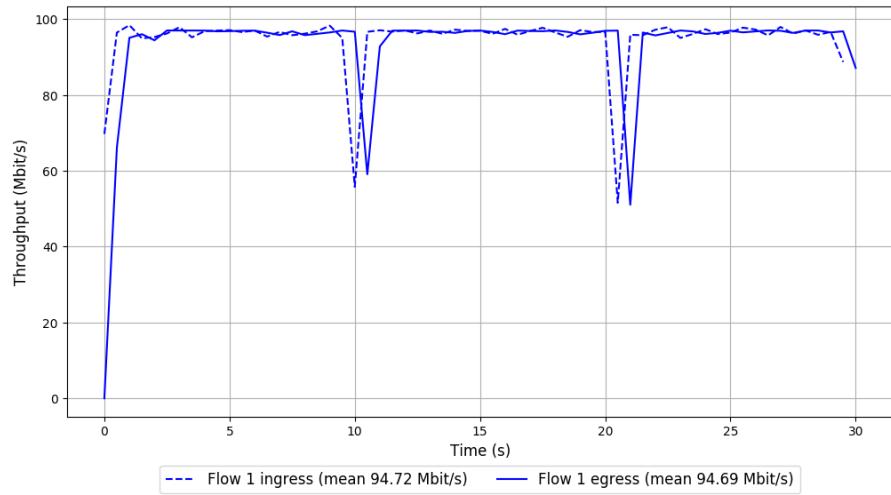


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-06-27 15:24:35
End at: 2019-06-27 15:25:05
Local clock offset: -0.729 ms
Remote clock offset: -6.227 ms

# Below is generated by plot.py at 2019-06-27 15:37:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.69 Mbit/s
95th percentile per-packet one-way delay: 28.303 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 94.69 Mbit/s
95th percentile per-packet one-way delay: 28.303 ms
Loss rate: 0.11%
```

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

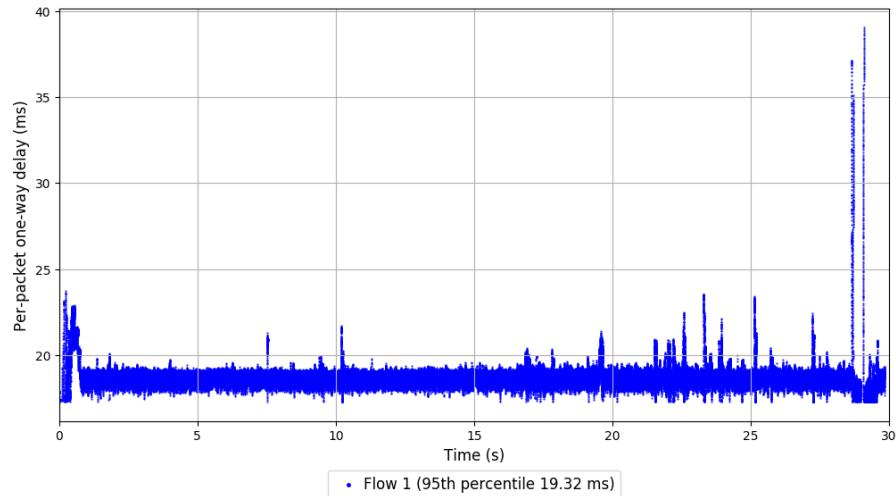
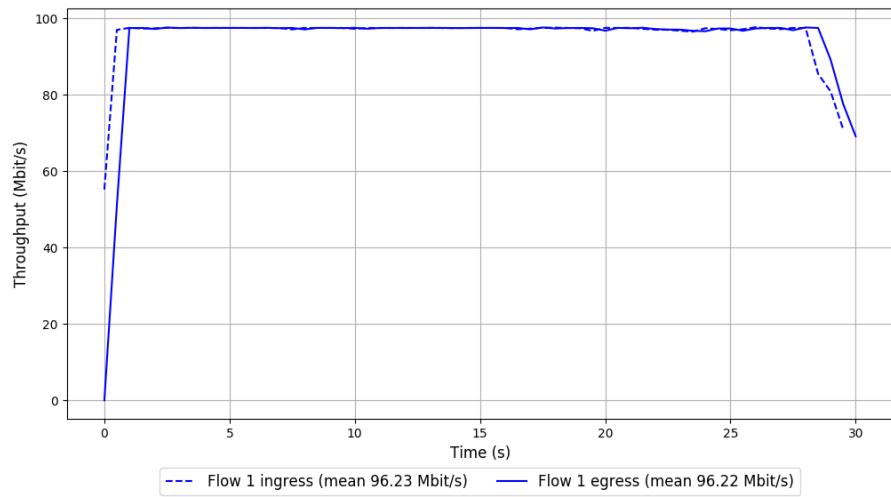


Run 1: Statistics of Indigo

```
Start at: 2019-06-27 13:14:12
End at: 2019-06-27 13:14:42
Local clock offset: -1.177 ms
Remote clock offset: -3.385 ms

# Below is generated by plot.py at 2019-06-27 15:37:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.22 Mbit/s
95th percentile per-packet one-way delay: 19.315 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.22 Mbit/s
95th percentile per-packet one-way delay: 19.315 ms
Loss rate: 0.09%
```

## Run 1: Report of Indigo — Data Link

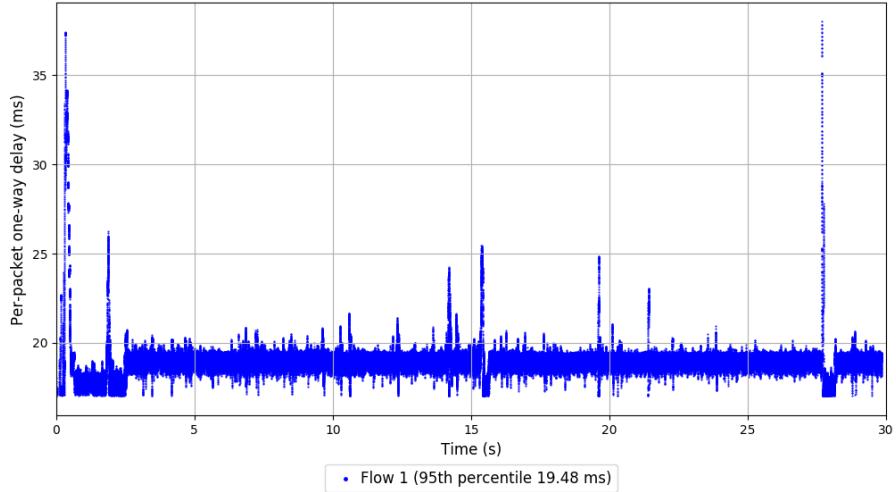
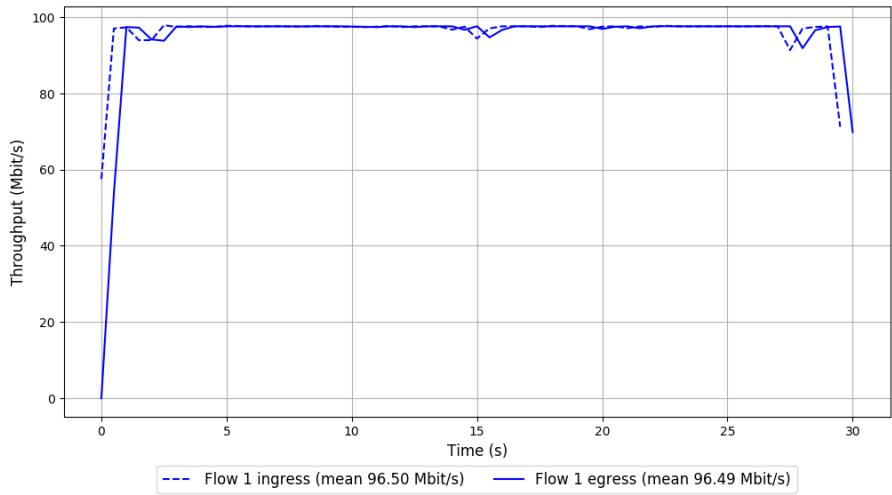


Run 2: Statistics of Indigo

```
Start at: 2019-06-27 13:41:28
End at: 2019-06-27 13:41:58
Local clock offset: -0.491 ms
Remote clock offset: -3.608 ms

# Below is generated by plot.py at 2019-06-27 15:37:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 19.484 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 19.484 ms
Loss rate: 0.09%
```

## Run 2: Report of Indigo — Data Link

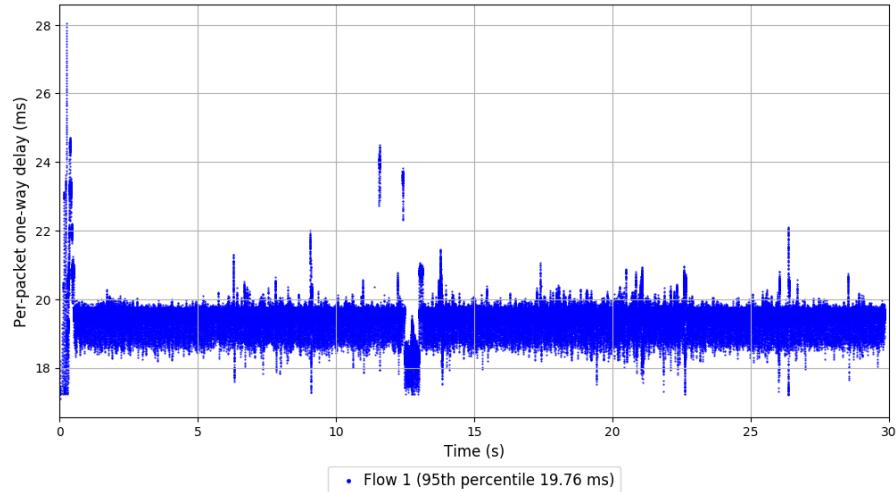
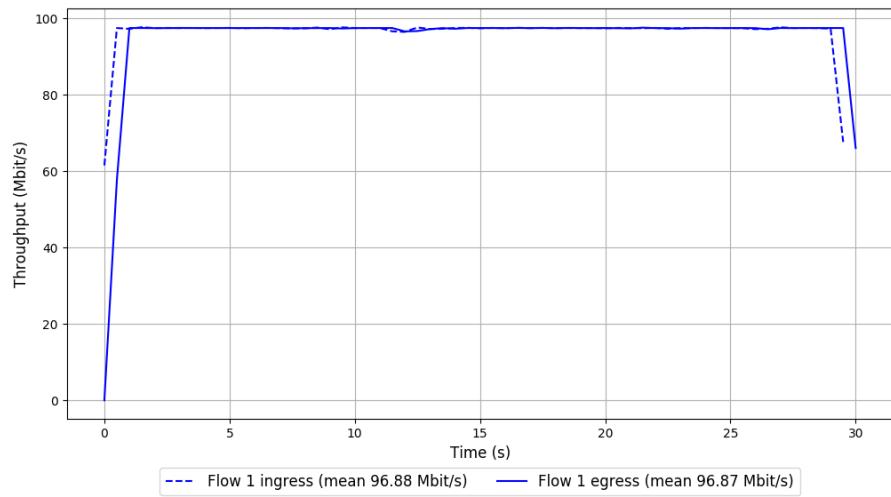


Run 3: Statistics of Indigo

```
Start at: 2019-06-27 14:09:24
End at: 2019-06-27 14:09:54
Local clock offset: -0.848 ms
Remote clock offset: -4.786 ms

# Below is generated by plot.py at 2019-06-27 15:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 19.762 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 19.762 ms
Loss rate: 0.09%
```

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

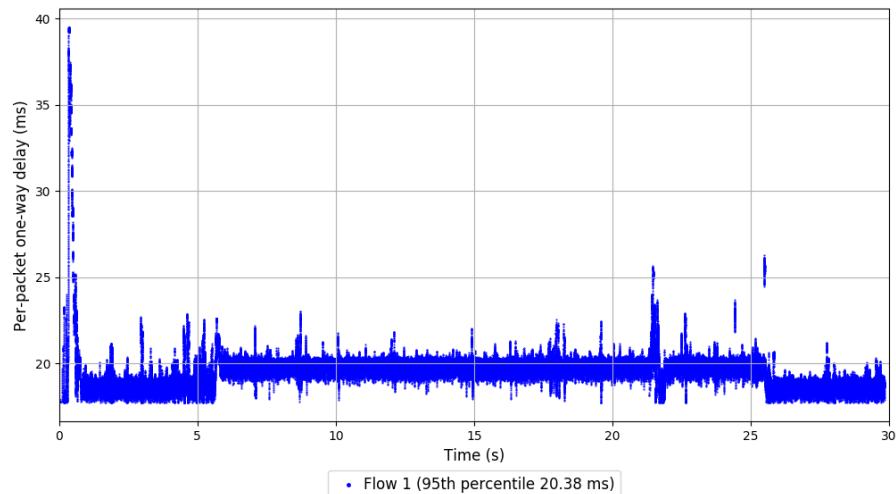
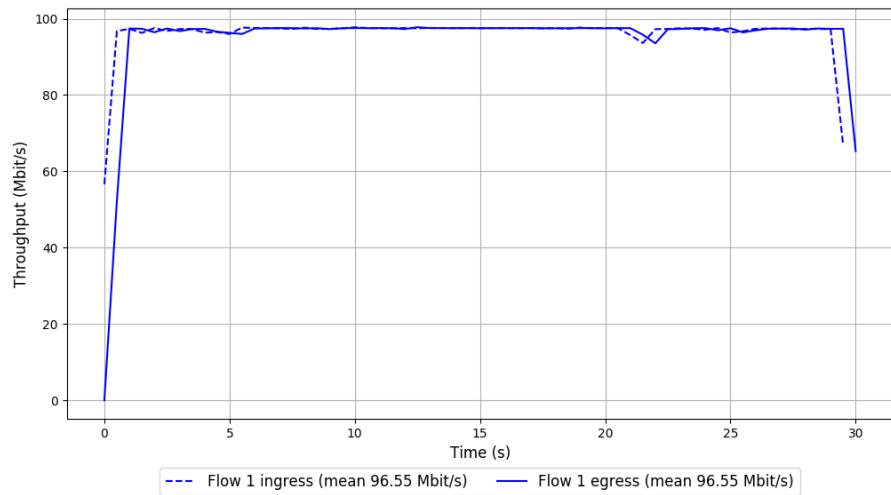


Run 4: Statistics of Indigo

```
Start at: 2019-06-27 14:37:20
End at: 2019-06-27 14:37:50
Local clock offset: 0.034 ms
Remote clock offset: -4.703 ms

# Below is generated by plot.py at 2019-06-27 15:38:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 20.382 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 20.382 ms
Loss rate: 0.09%
```

## Run 4: Report of Indigo — Data Link

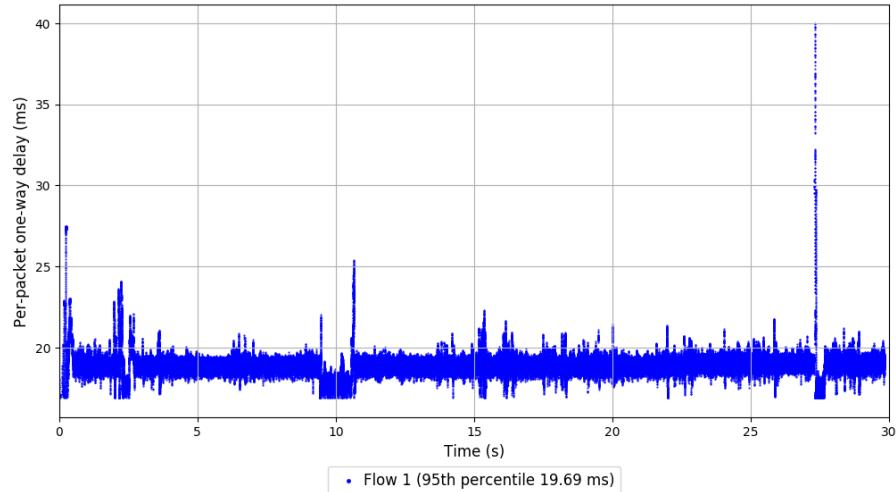
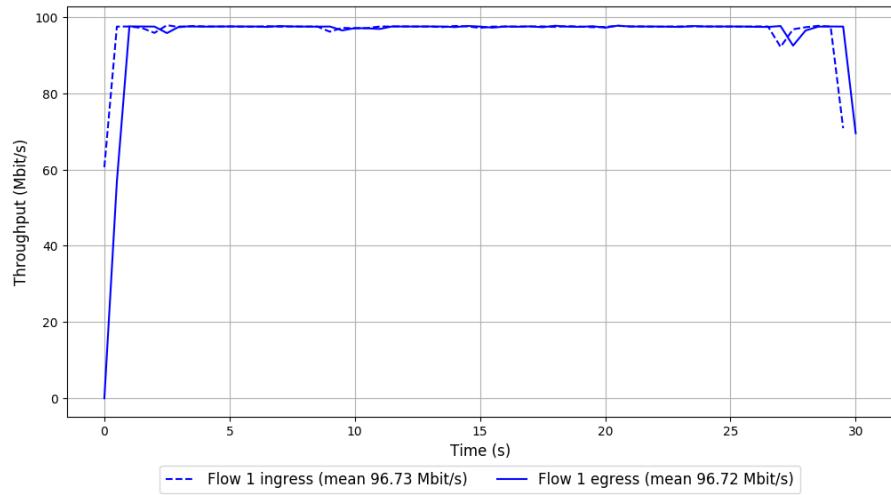


Run 5: Statistics of Indigo

```
Start at: 2019-06-27 15:05:22
End at: 2019-06-27 15:05:52
Local clock offset: -0.332 ms
Remote clock offset: -4.472 ms

# Below is generated by plot.py at 2019-06-27 15:38:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.72 Mbit/s
95th percentile per-packet one-way delay: 19.691 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.72 Mbit/s
95th percentile per-packet one-way delay: 19.691 ms
Loss rate: 0.09%
```

## Run 5: Report of Indigo — Data Link

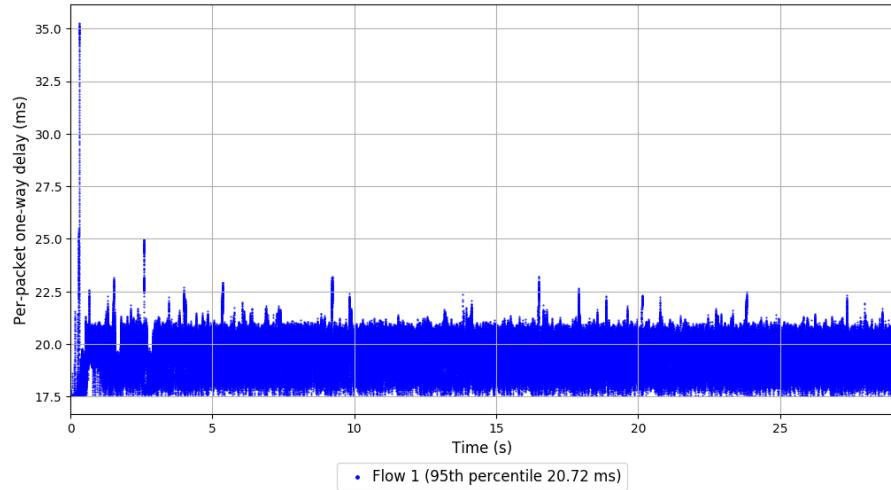
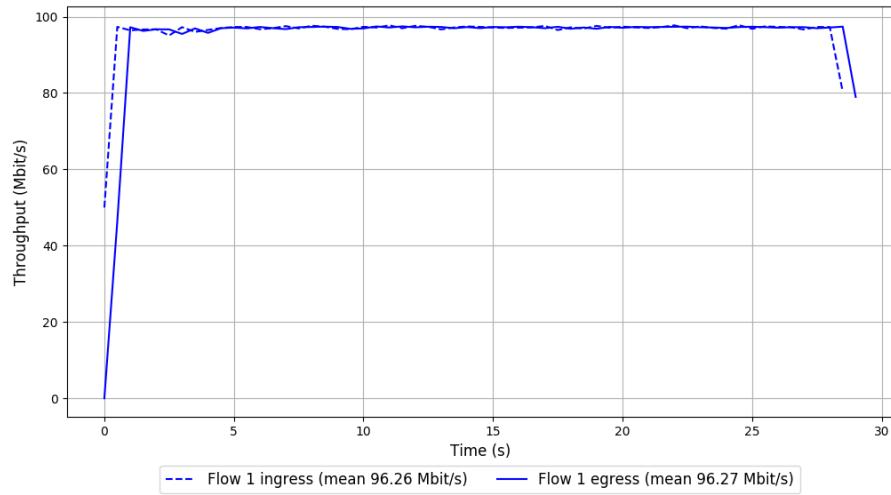


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 13:24:10
End at: 2019-06-27 13:24:40
Local clock offset: -1.293 ms
Remote clock offset: -4.328 ms

# Below is generated by plot.py at 2019-06-27 15:38:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 20.722 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 20.722 ms
Loss rate: 0.09%
```

## Run 1: Report of Indigo-MusesC3 — Data Link

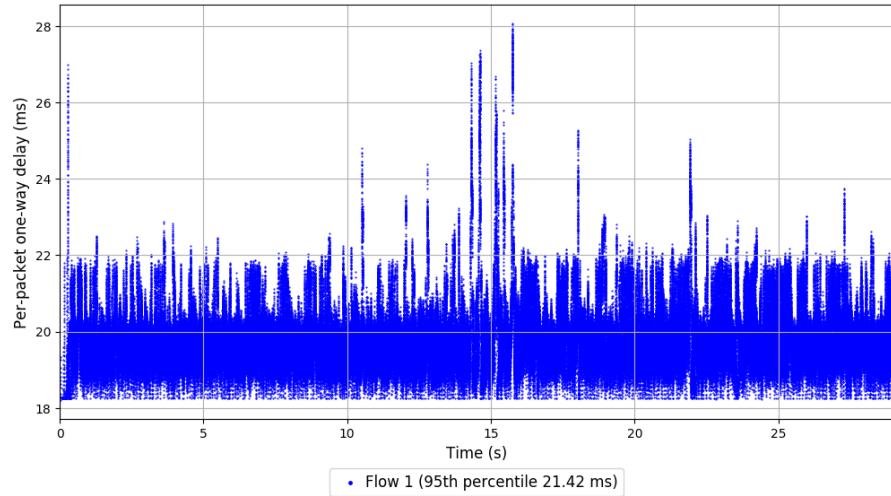
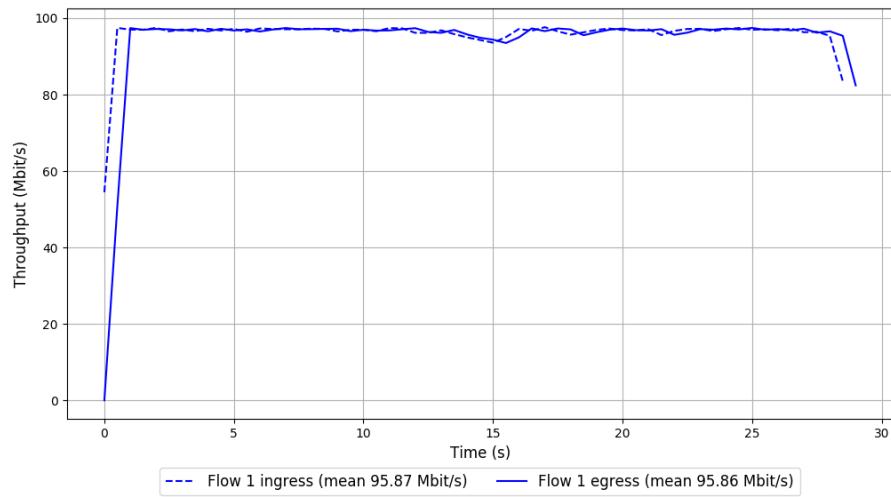


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 13:51:45
End at: 2019-06-27 13:52:15
Local clock offset: -0.699 ms
Remote clock offset: -5.284 ms

# Below is generated by plot.py at 2019-06-27 15:38:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 21.416 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 21.416 ms
Loss rate: 0.09%
```

## Run 2: Report of Indigo-MusesC3 — Data Link

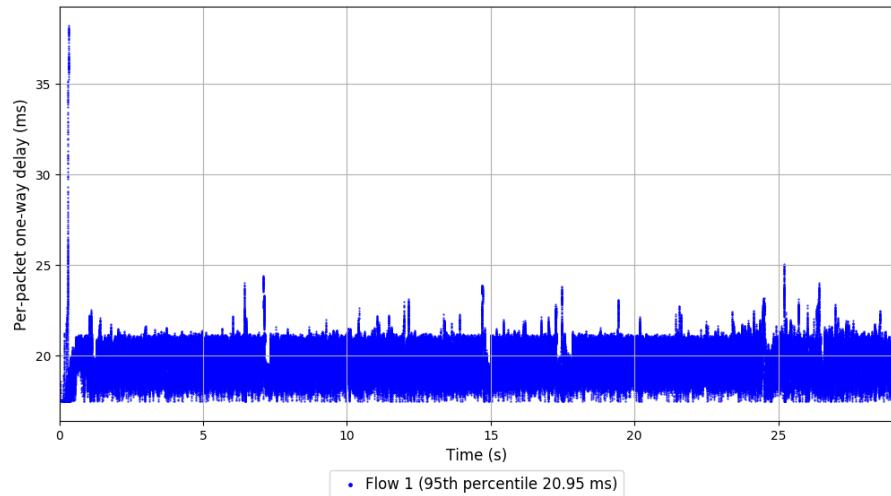
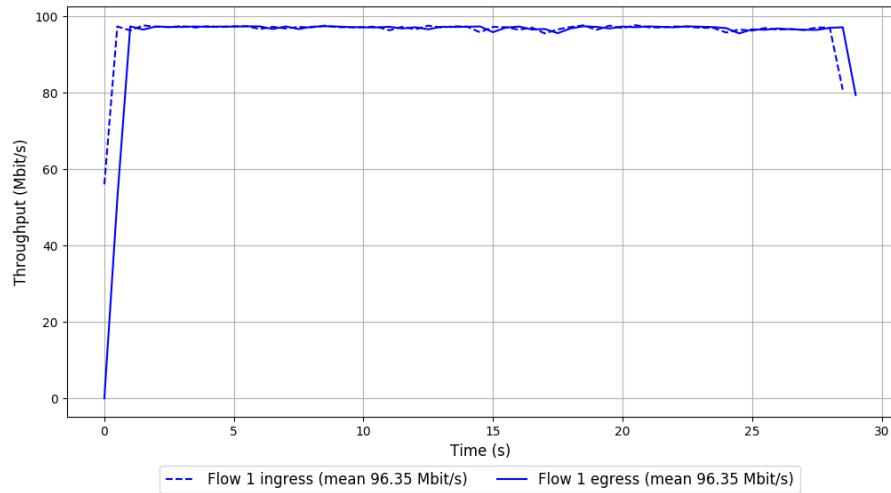


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 14:19:19
End at: 2019-06-27 14:19:49
Local clock offset: 0.074 ms
Remote clock offset: -4.266 ms

# Below is generated by plot.py at 2019-06-27 15:38:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 20.947 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 20.947 ms
Loss rate: 0.09%
```

### Run 3: Report of Indigo-MusesC3 — Data Link

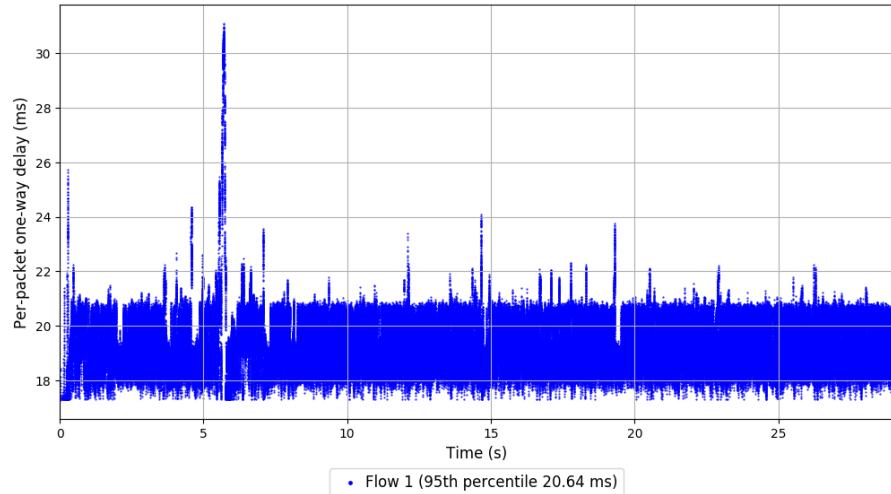
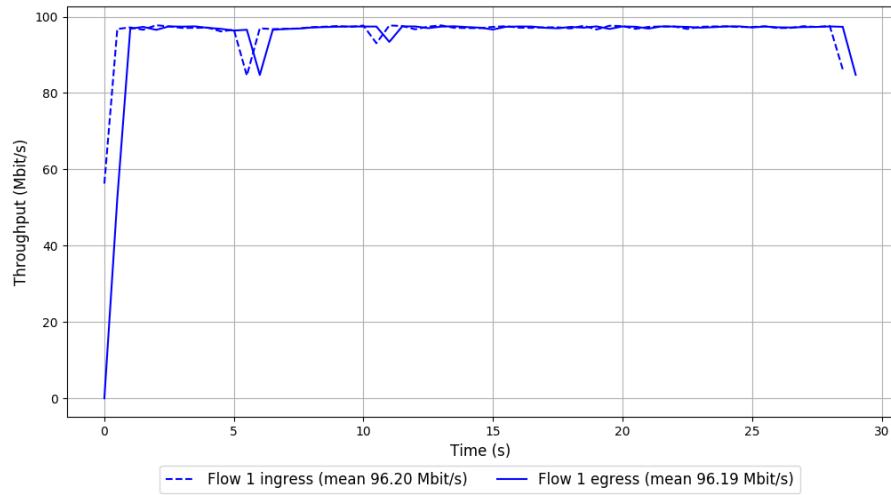


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 14:47:18
End at: 2019-06-27 14:47:48
Local clock offset: -0.342 ms
Remote clock offset: -4.877 ms

# Below is generated by plot.py at 2019-06-27 15:38:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 20.645 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 20.645 ms
Loss rate: 0.10%
```

## Run 4: Report of Indigo-MusesC3 — Data Link

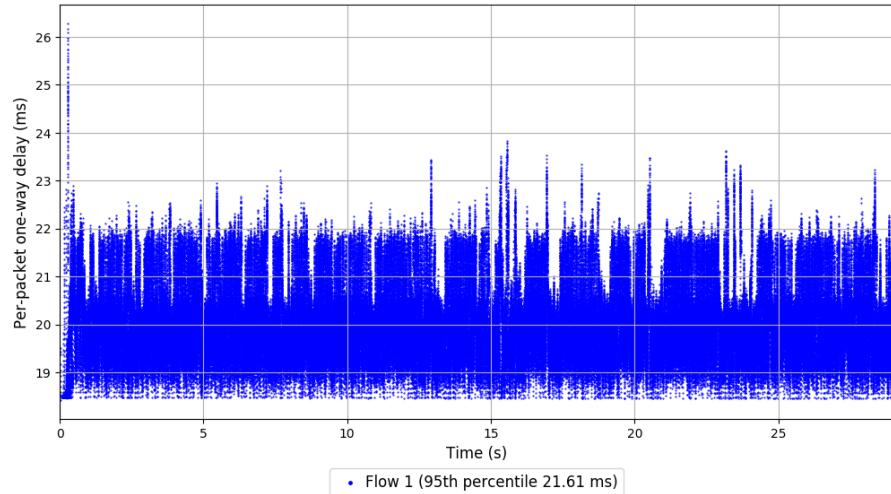
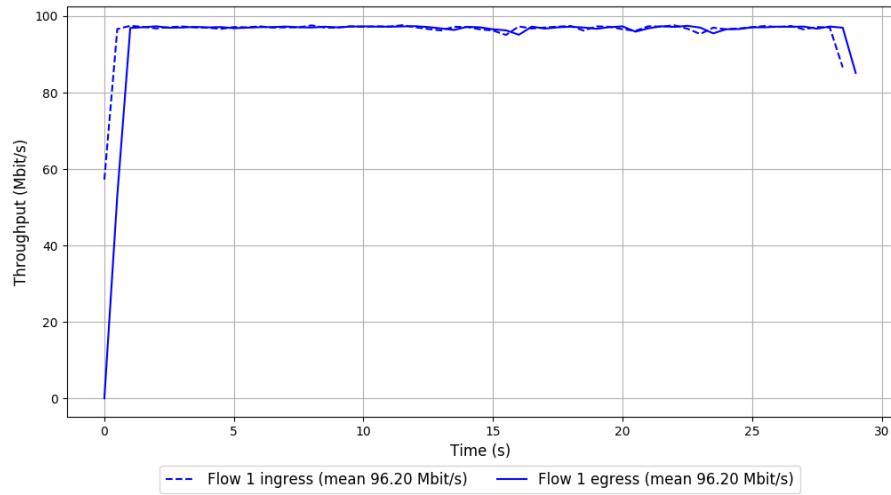


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 15:15:33
End at: 2019-06-27 15:16:03
Local clock offset: -1.016 ms
Remote clock offset: -7.167 ms

# Below is generated by plot.py at 2019-06-27 15:38:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 21.615 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 21.615 ms
Loss rate: 0.09%
```

## Run 5: Report of Indigo-MusesC3 — Data Link

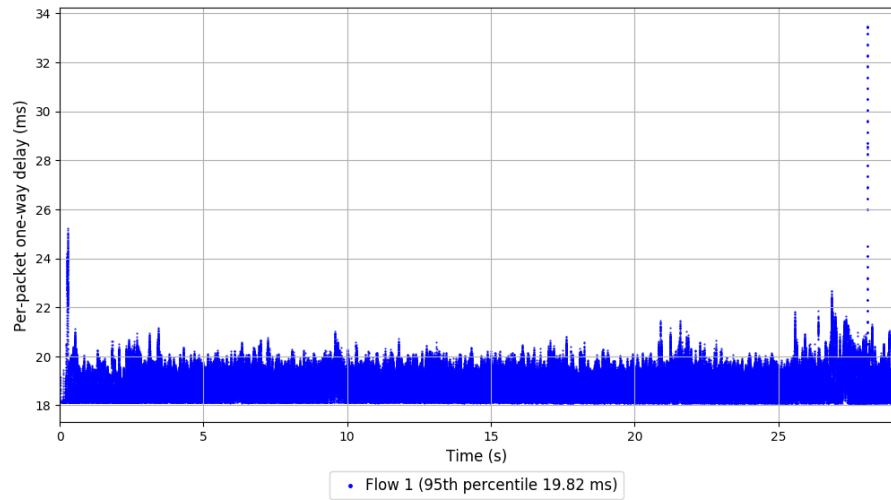
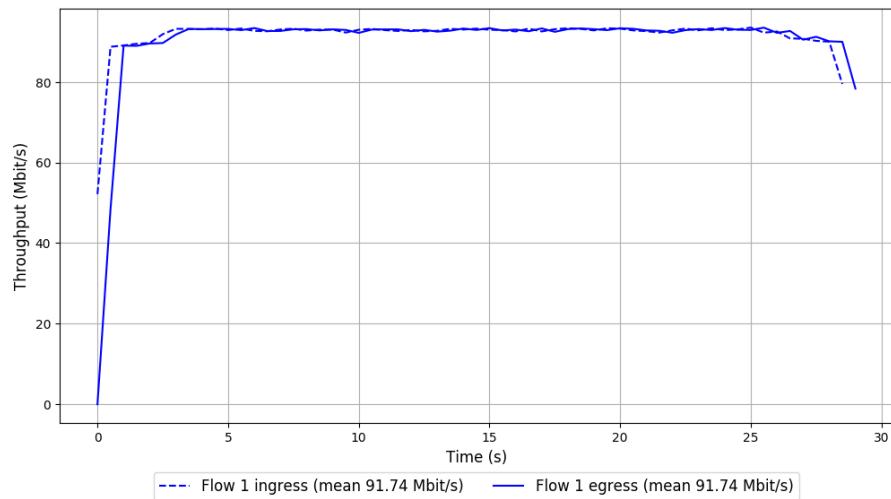


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 13:20:36
End at: 2019-06-27 13:21:06
Local clock offset: -1.236 ms
Remote clock offset: -4.547 ms

# Below is generated by plot.py at 2019-06-27 15:39:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.74 Mbit/s
95th percentile per-packet one-way delay: 19.821 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.74 Mbit/s
95th percentile per-packet one-way delay: 19.821 ms
Loss rate: 0.09%
```

Run 1: Report of Indigo-MusesC5 — Data Link

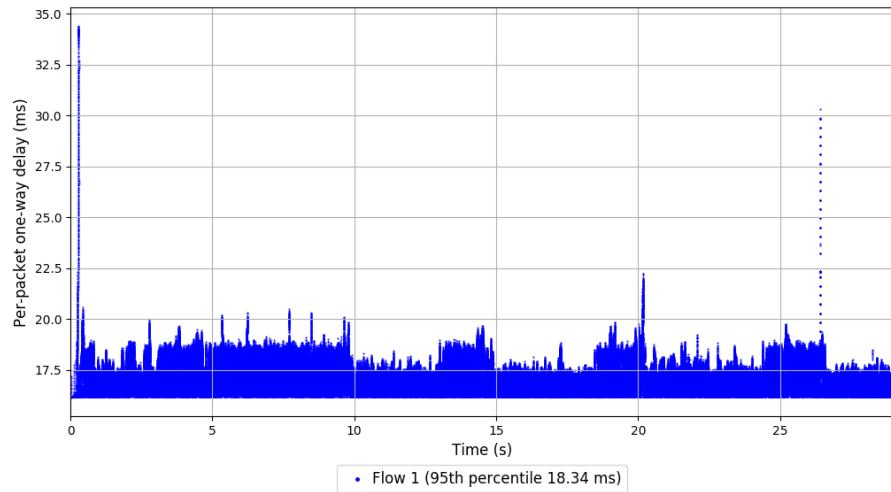
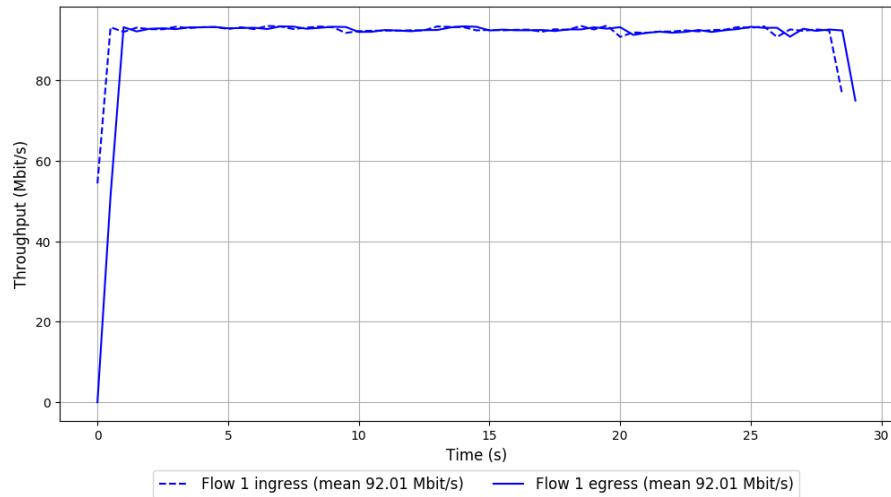


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 13:48:02
End at: 2019-06-27 13:48:32
Local clock offset: -1.135 ms
Remote clock offset: -3.474 ms

# Below is generated by plot.py at 2019-06-27 15:39:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 18.342 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 18.342 ms
Loss rate: 0.09%
```

## Run 2: Report of Indigo-MusesC5 — Data Link

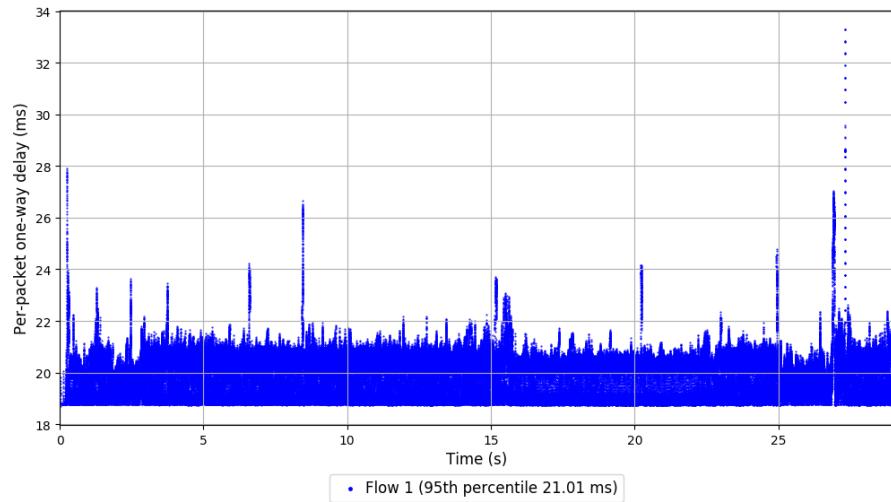
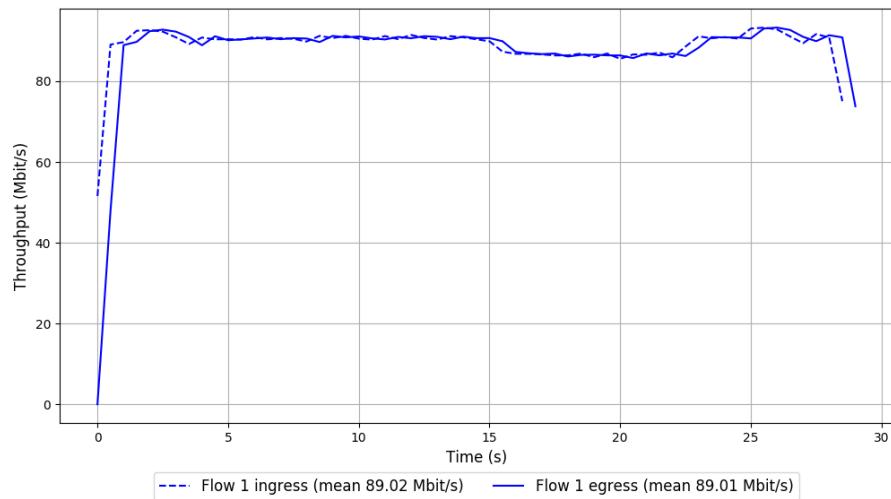


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 14:15:40
End at: 2019-06-27 14:16:10
Local clock offset: -0.613 ms
Remote clock offset: -6.173 ms

# Below is generated by plot.py at 2019-06-27 15:39:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.01 Mbit/s
95th percentile per-packet one-way delay: 21.007 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 89.01 Mbit/s
95th percentile per-packet one-way delay: 21.007 ms
Loss rate: 0.09%
```

### Run 3: Report of Indigo-MusesC5 — Data Link

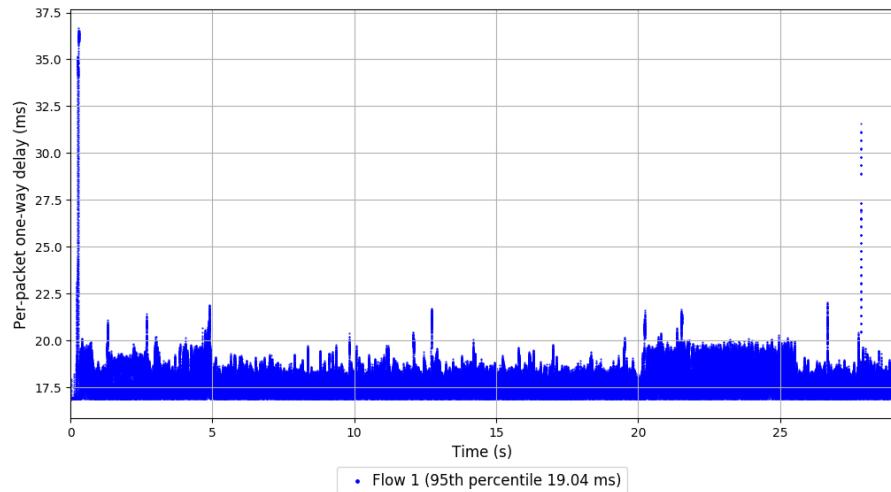
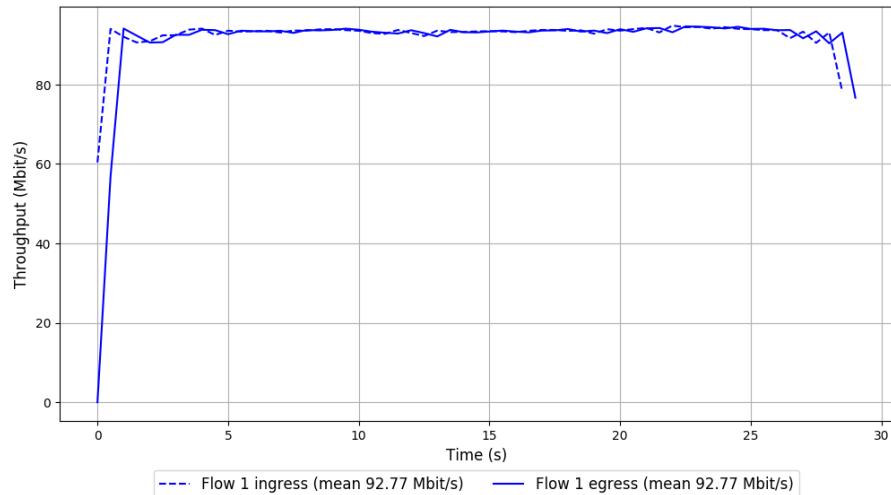


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 14:43:41
End at: 2019-06-27 14:44:11
Local clock offset: -1.257 ms
Remote clock offset: -5.265 ms

# Below is generated by plot.py at 2019-06-27 15:39:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 19.035 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 19.035 ms
Loss rate: 0.09%
```

## Run 4: Report of Indigo-MusesC5 — Data Link

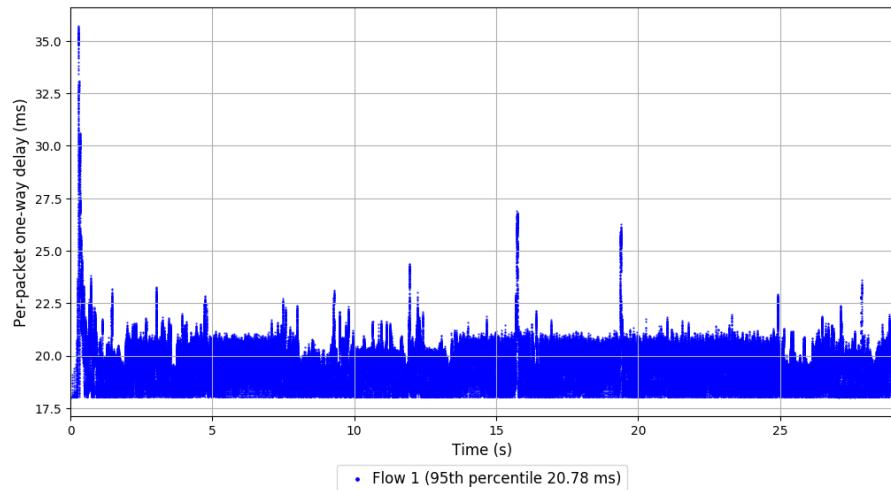
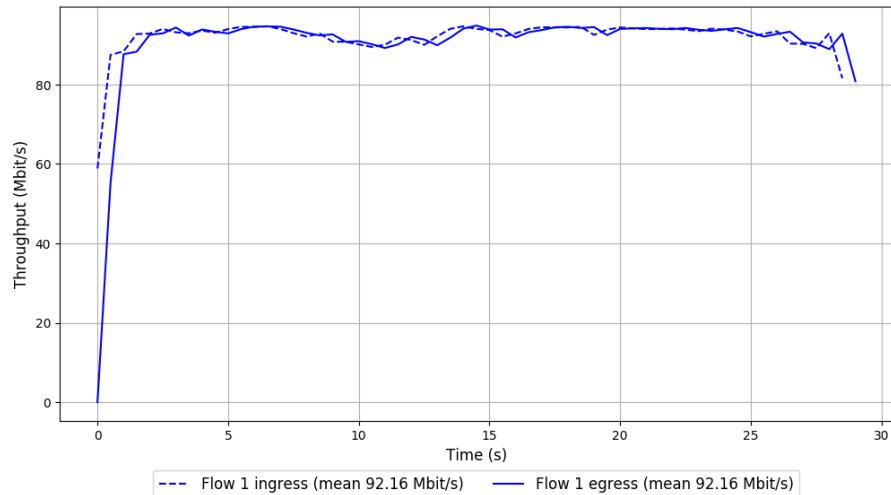


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 15:11:50
End at: 2019-06-27 15:12:20
Local clock offset: 0.277 ms
Remote clock offset: -5.339 ms

# Below is generated by plot.py at 2019-06-27 15:39:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.16 Mbit/s
95th percentile per-packet one-way delay: 20.779 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 92.16 Mbit/s
95th percentile per-packet one-way delay: 20.779 ms
Loss rate: 0.08%
```

## Run 5: Report of Indigo-MusesC5 — Data Link

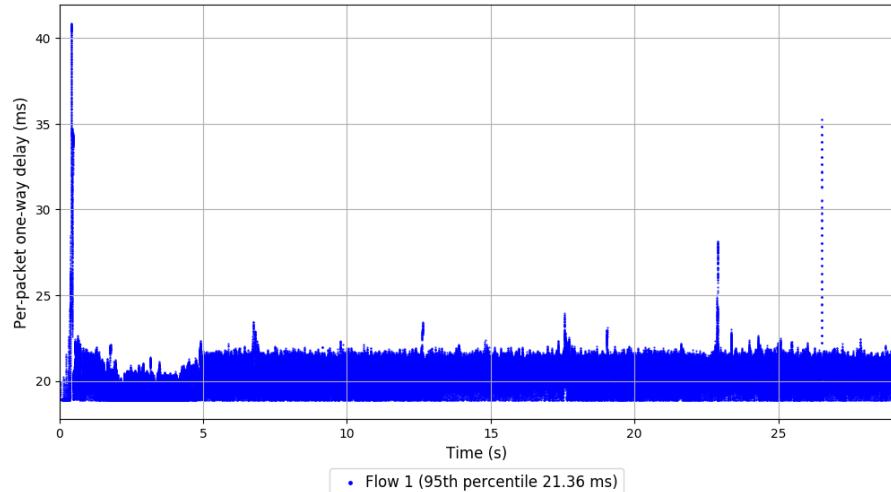
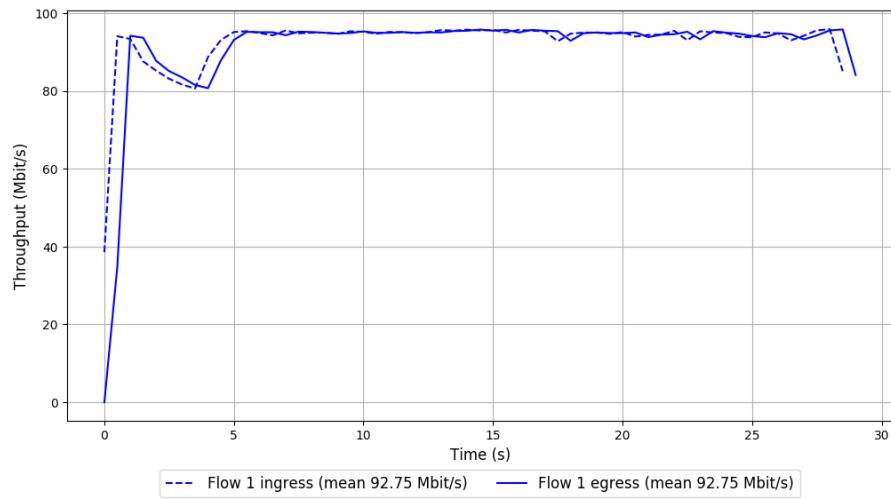


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 13:27:44
End at: 2019-06-27 13:28:14
Local clock offset: -0.73 ms
Remote clock offset: -5.276 ms

# Below is generated by plot.py at 2019-06-27 15:39:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.75 Mbit/s
95th percentile per-packet one-way delay: 21.363 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.75 Mbit/s
95th percentile per-packet one-way delay: 21.363 ms
Loss rate: 0.09%
```

## Run 1: Report of Indigo-MusesD — Data Link

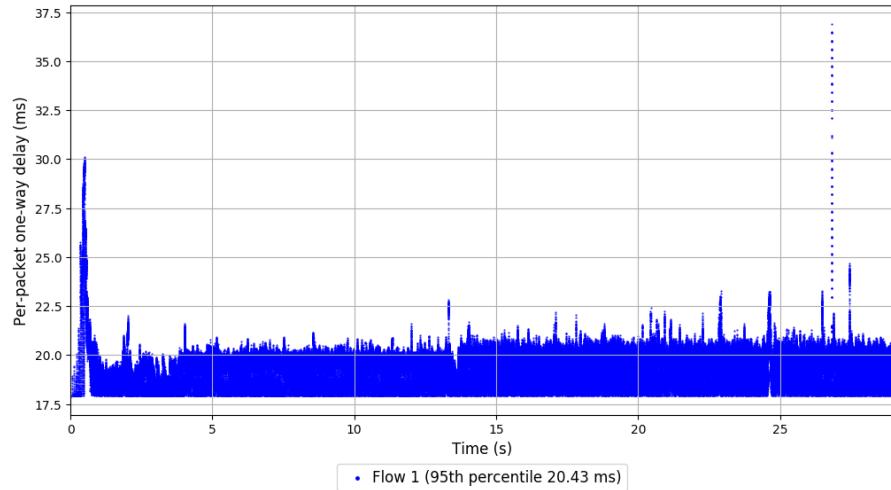
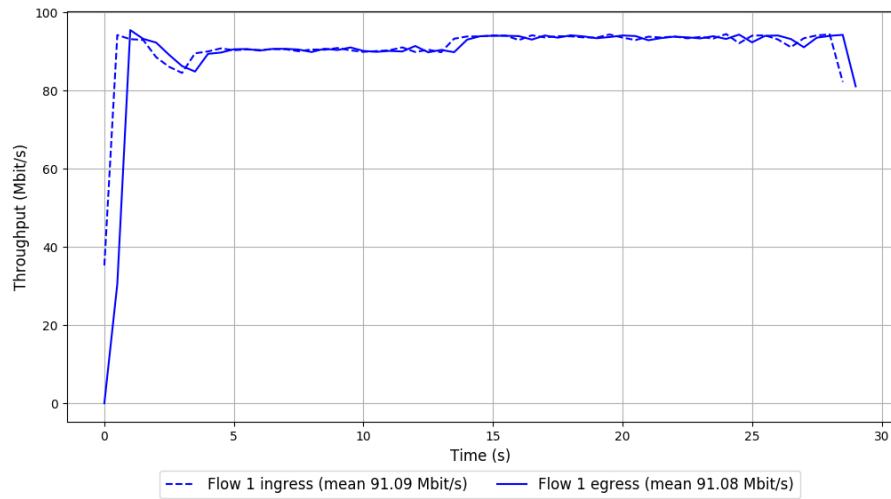


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 13:55:27
End at: 2019-06-27 13:55:57
Local clock offset: -0.157 ms
Remote clock offset: -4.518 ms

# Below is generated by plot.py at 2019-06-27 15:39:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.08 Mbit/s
95th percentile per-packet one-way delay: 20.432 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.08 Mbit/s
95th percentile per-packet one-way delay: 20.432 ms
Loss rate: 0.09%
```

## Run 2: Report of Indigo-MusesD — Data Link

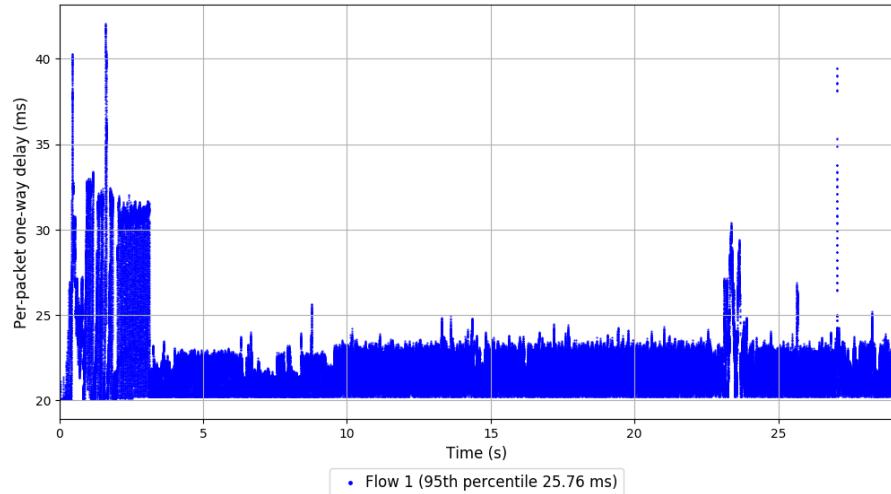
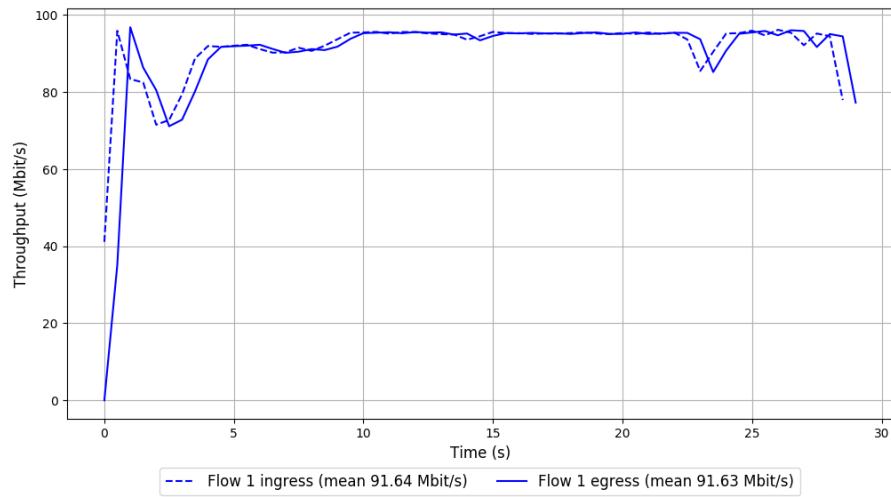


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 14:22:57
End at: 2019-06-27 14:23:27
Local clock offset: 0.541 ms
Remote clock offset: -6.548 ms

# Below is generated by plot.py at 2019-06-27 15:40:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.63 Mbit/s
95th percentile per-packet one-way delay: 25.762 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.63 Mbit/s
95th percentile per-packet one-way delay: 25.762 ms
Loss rate: 0.09%
```

### Run 3: Report of Indigo-MusesD — Data Link

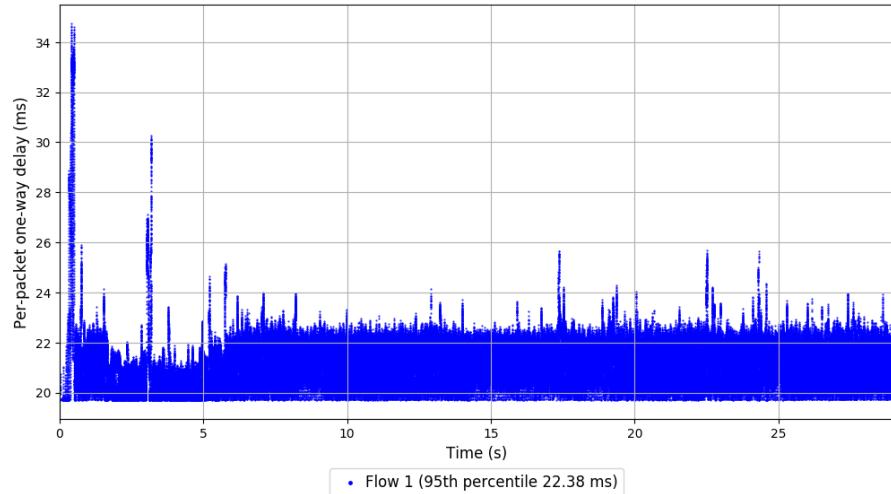
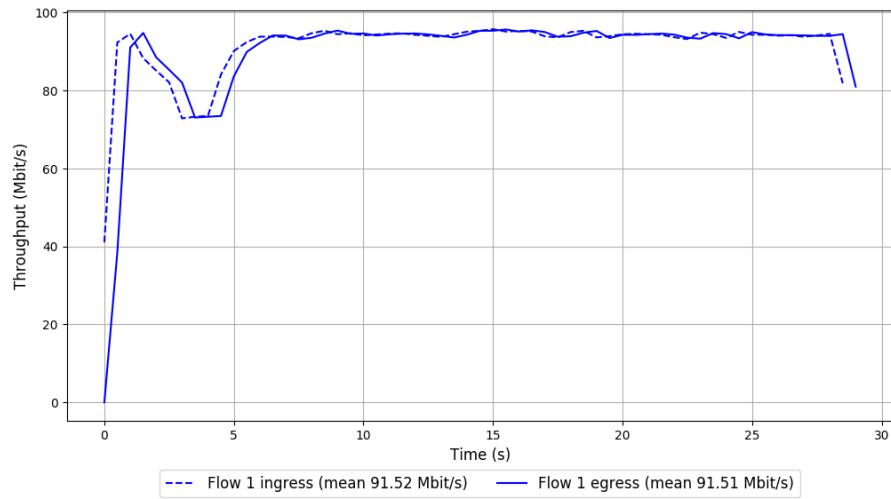


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 14:50:53
End at: 2019-06-27 14:51:23
Local clock offset: 0.439 ms
Remote clock offset: -6.474 ms

# Below is generated by plot.py at 2019-06-27 15:40:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.51 Mbit/s
95th percentile per-packet one-way delay: 22.381 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.51 Mbit/s
95th percentile per-packet one-way delay: 22.381 ms
Loss rate: 0.09%
```

## Run 4: Report of Indigo-MusesD — Data Link

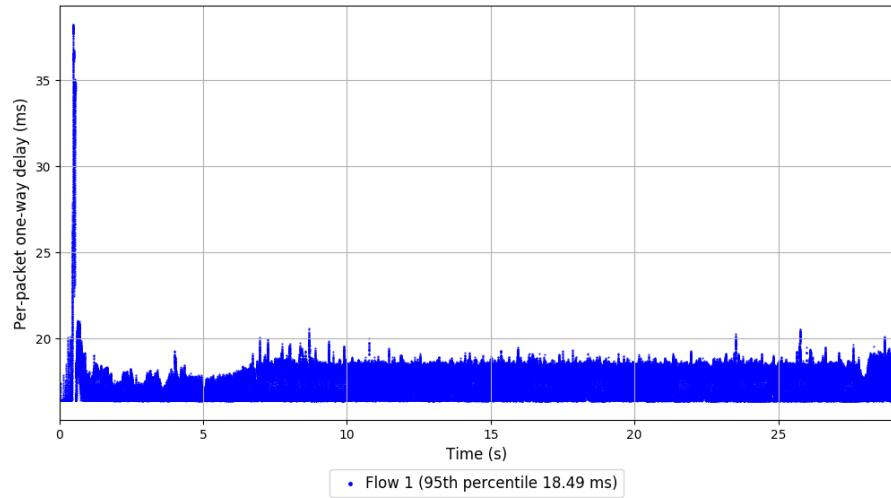
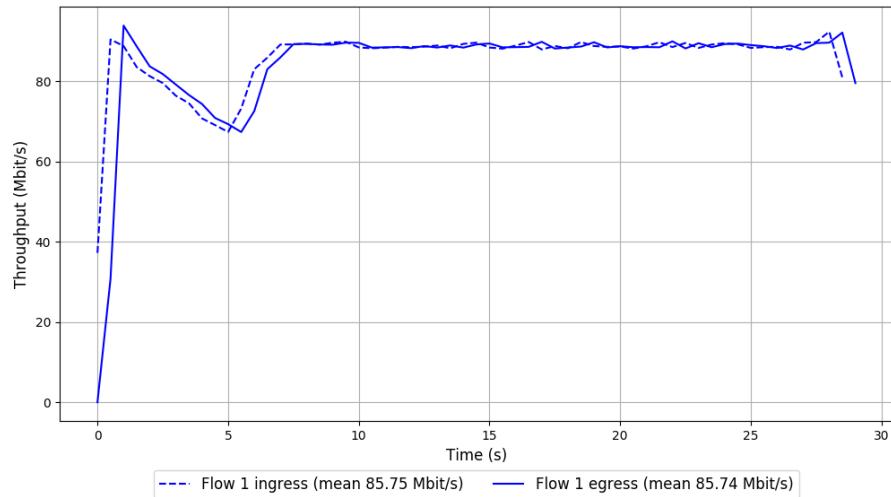


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 15:21:10
End at: 2019-06-27 15:21:40
Local clock offset: -1.074 ms
Remote clock offset: -5.281 ms

# Below is generated by plot.py at 2019-06-27 15:40:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.74 Mbit/s
95th percentile per-packet one-way delay: 18.487 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 85.74 Mbit/s
95th percentile per-packet one-way delay: 18.487 ms
Loss rate: 0.10%
```

## Run 5: Report of Indigo-MusesD — Data Link

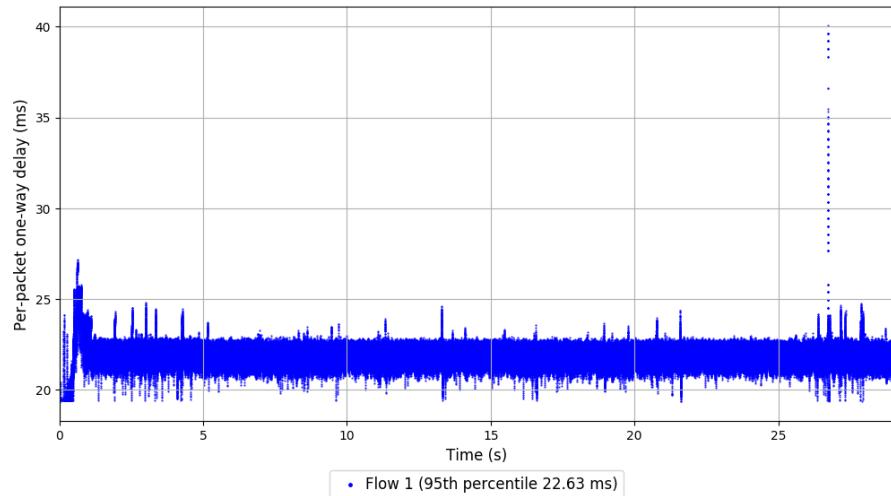
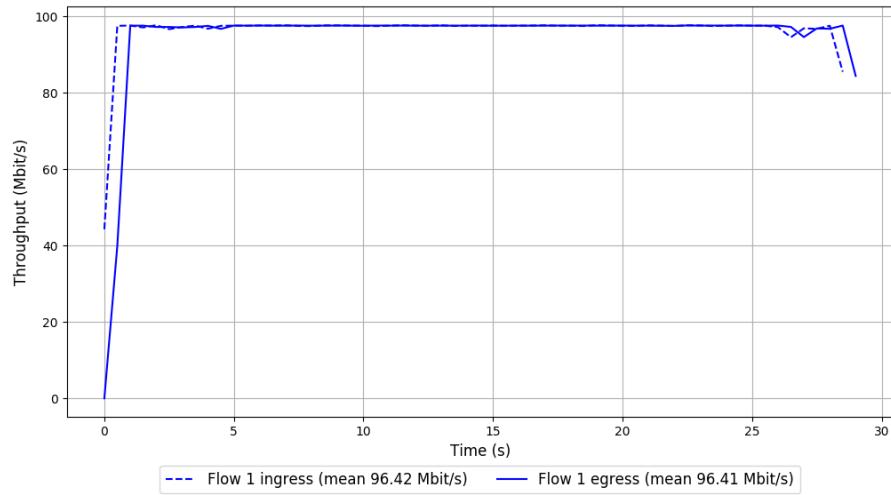


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 13:36:36
End at: 2019-06-27 13:37:06
Local clock offset: -0.888 ms
Remote clock offset: -6.239 ms

# Below is generated by plot.py at 2019-06-27 15:40:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.41 Mbit/s
95th percentile per-packet one-way delay: 22.627 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.41 Mbit/s
95th percentile per-packet one-way delay: 22.627 ms
Loss rate: 0.09%
```

## Run 1: Report of Indigo-MusesT — Data Link

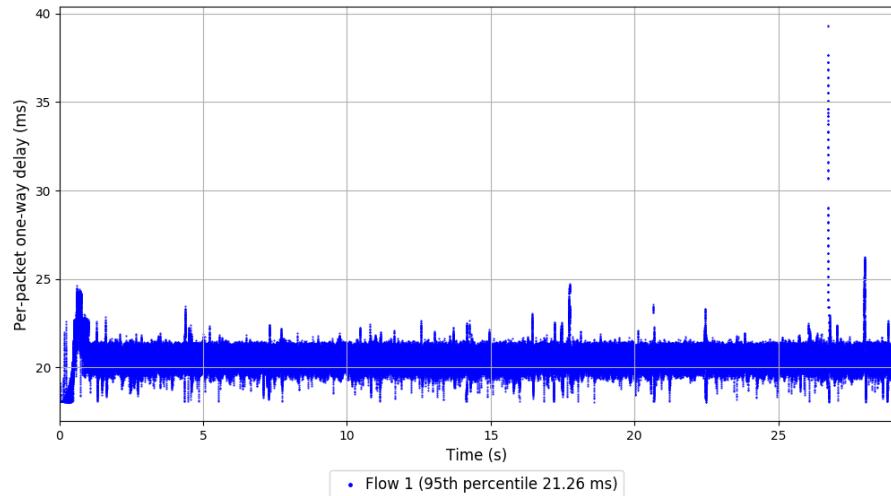
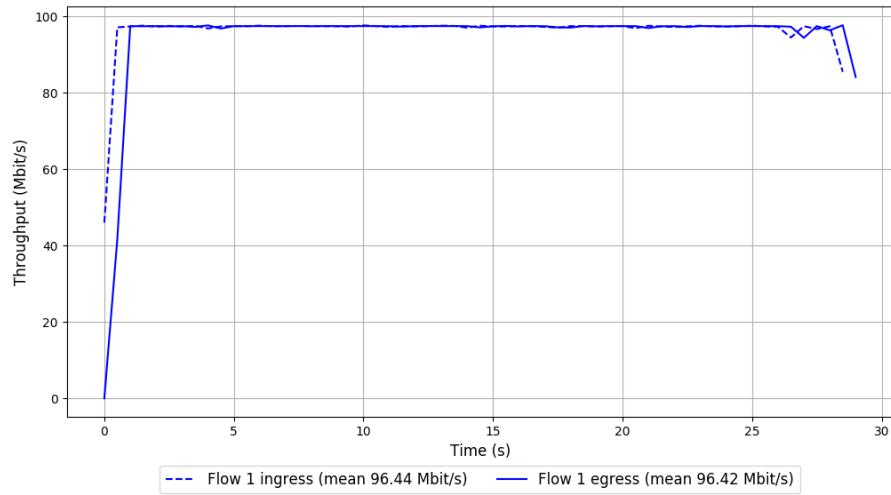


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 14:04:30
End at: 2019-06-27 14:05:00
Local clock offset: -1.064 ms
Remote clock offset: -5.724 ms

# Below is generated by plot.py at 2019-06-27 15:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 21.263 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 21.263 ms
Loss rate: 0.10%
```

## Run 2: Report of Indigo-MusesT — Data Link

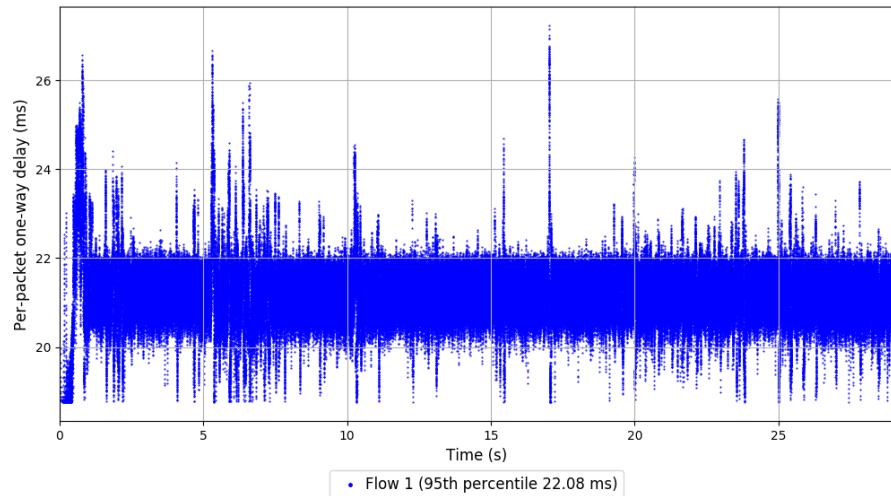
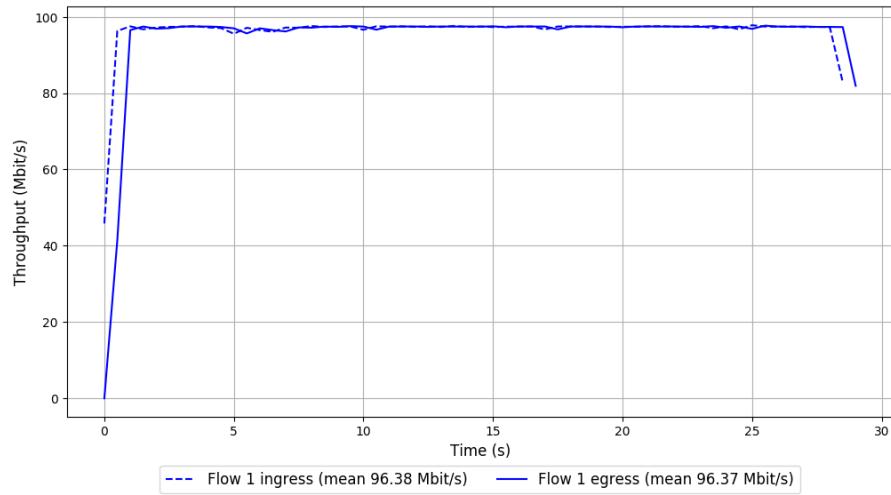


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 14:32:22
End at: 2019-06-27 14:32:52
Local clock offset: -0.493 ms
Remote clock offset: -6.128 ms

# Below is generated by plot.py at 2019-06-27 15:40:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.37 Mbit/s
95th percentile per-packet one-way delay: 22.079 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.37 Mbit/s
95th percentile per-packet one-way delay: 22.079 ms
Loss rate: 0.09%
```

### Run 3: Report of Indigo-MusesT — Data Link

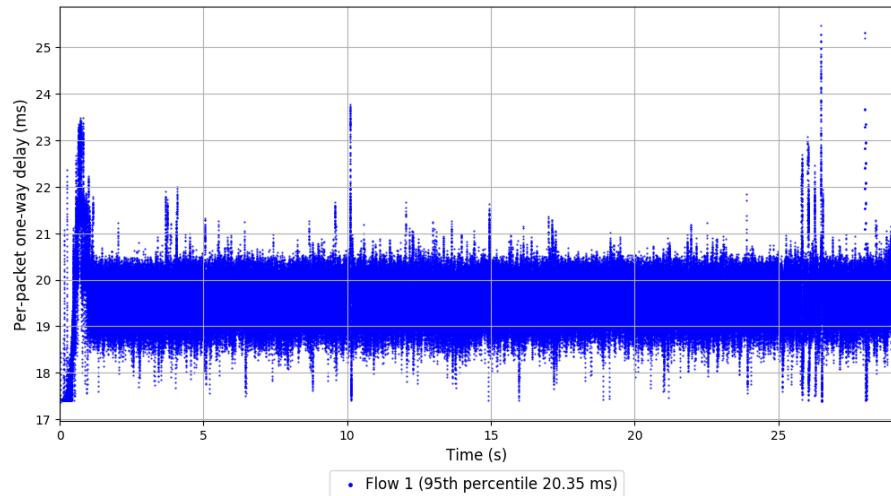
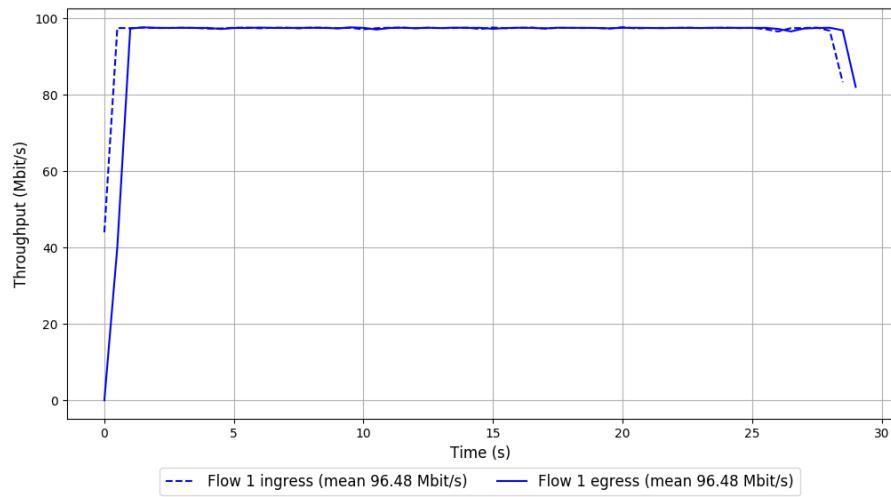


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 15:00:03
End at: 2019-06-27 15:00:33
Local clock offset: -0.416 ms
Remote clock offset: -4.97 ms

# Below is generated by plot.py at 2019-06-27 15:40:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 20.348 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 20.348 ms
Loss rate: 0.09%
```

## Run 4: Report of Indigo-MusesT — Data Link

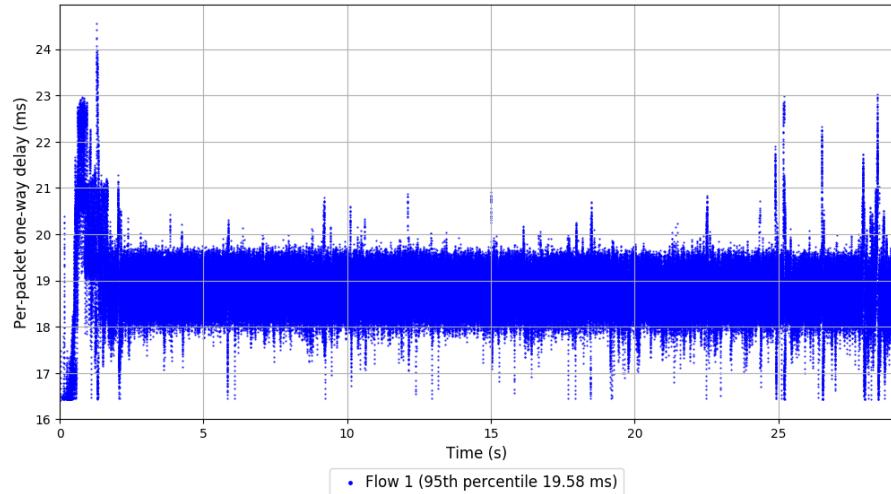
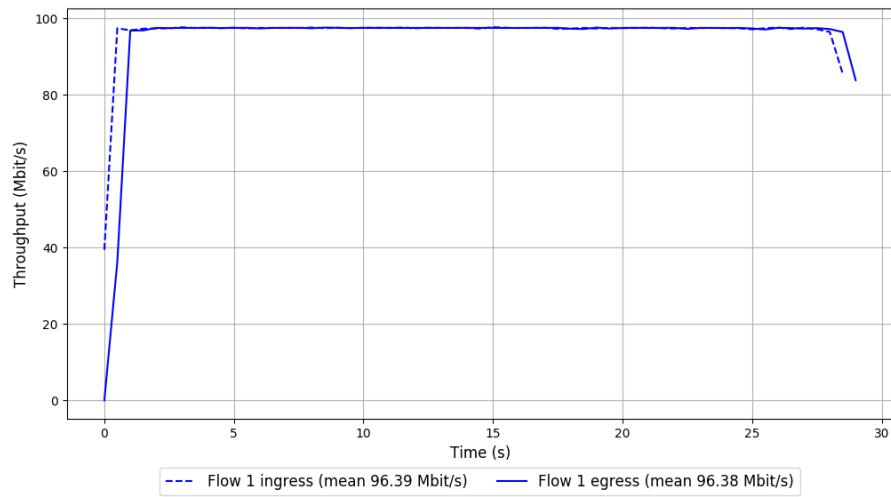


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 15:29:38
End at: 2019-06-27 15:30:08
Local clock offset: -0.417 ms
Remote clock offset: -5.185 ms

# Below is generated by plot.py at 2019-06-27 15:40:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 19.580 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 19.580 ms
Loss rate: 0.09%
```

## Run 5: Report of Indigo-MusesT — Data Link

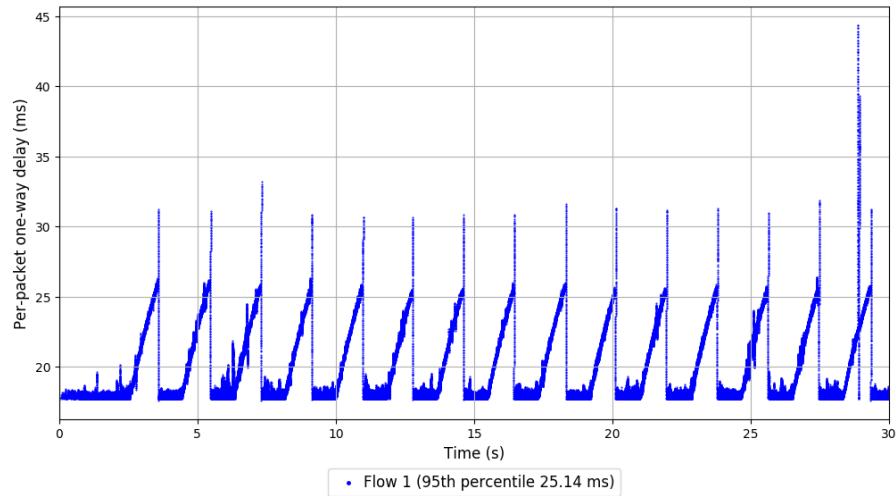
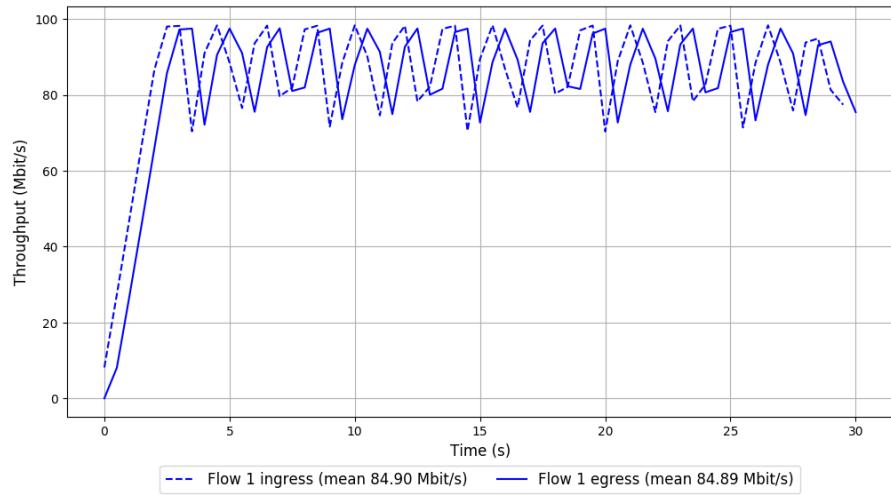


```
Run 1: Statistics of LEDBAT

Start at: 2019-06-27 13:21:53
End at: 2019-06-27 13:22:23
Local clock offset: -0.983 ms
Remote clock offset: -4.045 ms

# Below is generated by plot.py at 2019-06-27 15:41:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.89 Mbit/s
95th percentile per-packet one-way delay: 25.138 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 84.89 Mbit/s
95th percentile per-packet one-way delay: 25.138 ms
Loss rate: 0.09%
```

Run 1: Report of LEDBAT — Data Link

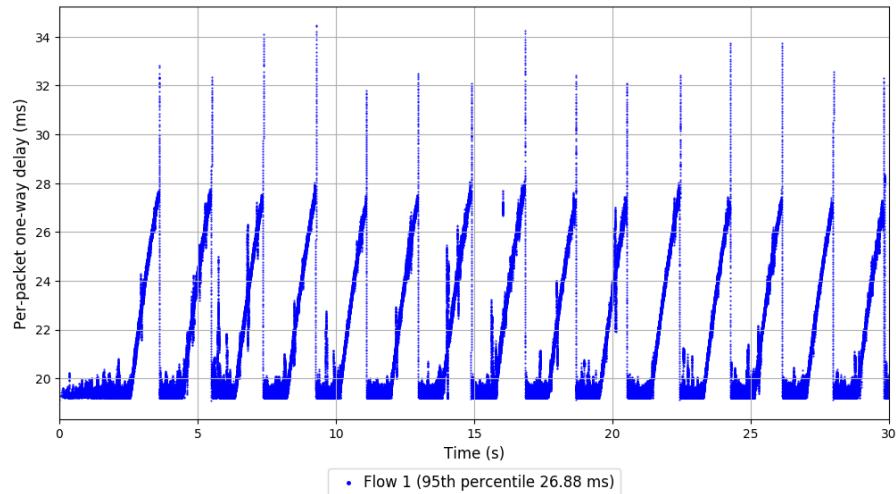
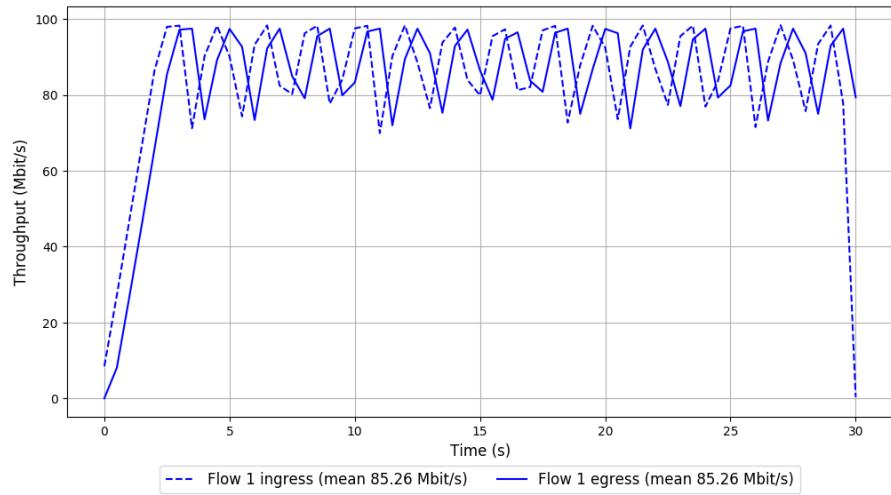


Run 2: Statistics of LEDBAT

```
Start at: 2019-06-27 13:49:21
End at: 2019-06-27 13:49:51
Local clock offset: -0.473 ms
Remote clock offset: -5.946 ms

# Below is generated by plot.py at 2019-06-27 15:41:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.26 Mbit/s
95th percentile per-packet one-way delay: 26.876 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 85.26 Mbit/s
95th percentile per-packet one-way delay: 26.876 ms
Loss rate: 0.08%
```

Run 2: Report of LEDBAT — Data Link

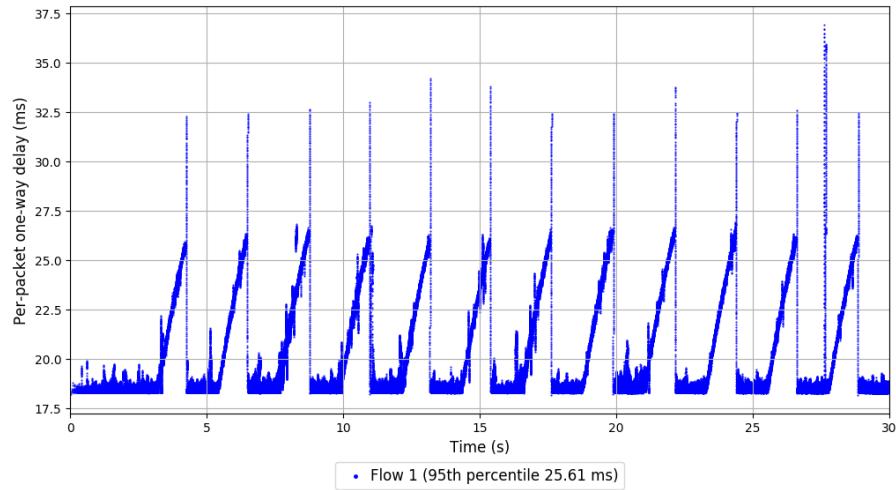
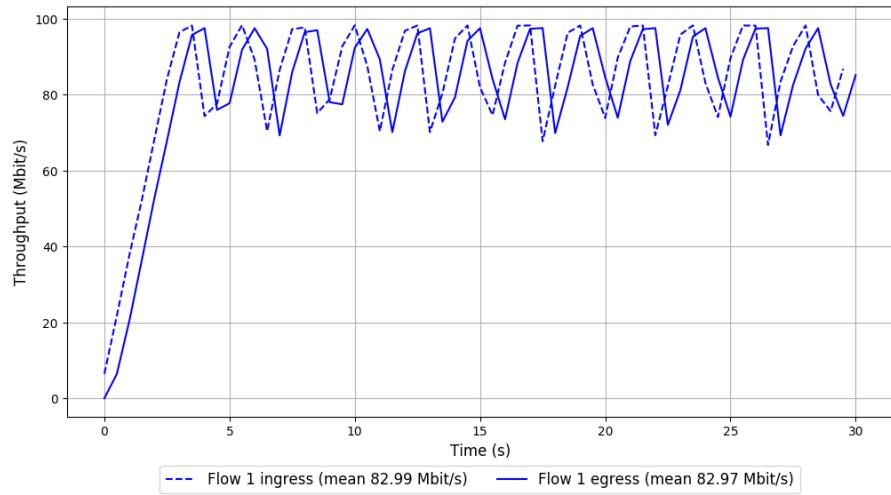


Run 3: Statistics of LEDBAT

```
Start at: 2019-06-27 14:16:58
End at: 2019-06-27 14:17:28
Local clock offset: -0.764 ms
Remote clock offset: -5.851 ms

# Below is generated by plot.py at 2019-06-27 15:41:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.97 Mbit/s
95th percentile per-packet one-way delay: 25.606 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 82.97 Mbit/s
95th percentile per-packet one-way delay: 25.606 ms
Loss rate: 0.10%
```

Run 3: Report of LEDBAT — Data Link

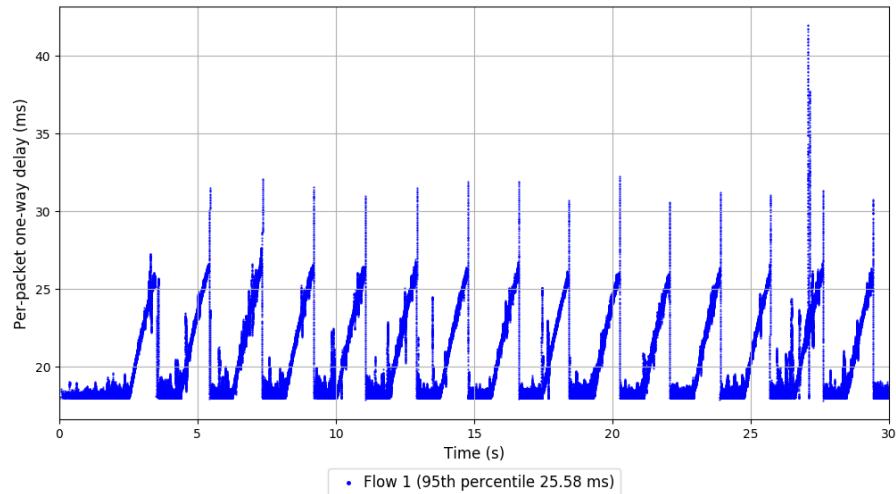
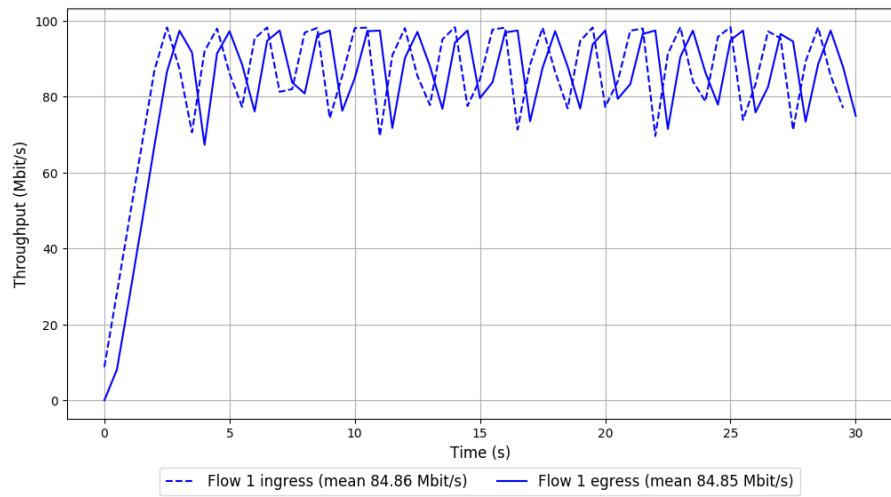


Run 4: Statistics of LEDBAT

```
Start at: 2019-06-27 14:44:54
End at: 2019-06-27 14:45:24
Local clock offset: -0.402 ms
Remote clock offset: -5.52 ms

# Below is generated by plot.py at 2019-06-27 15:41:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.85 Mbit/s
95th percentile per-packet one-way delay: 25.582 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 84.85 Mbit/s
95th percentile per-packet one-way delay: 25.582 ms
Loss rate: 0.09%
```

Run 4: Report of LEDBAT — Data Link

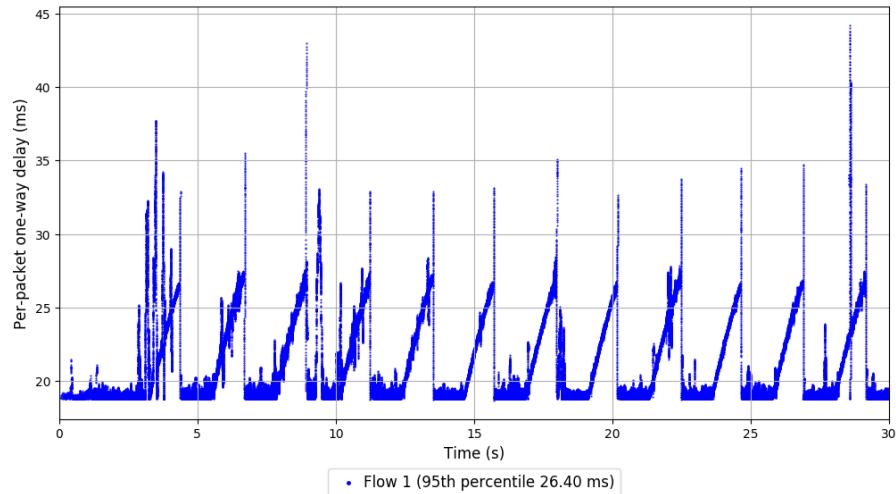
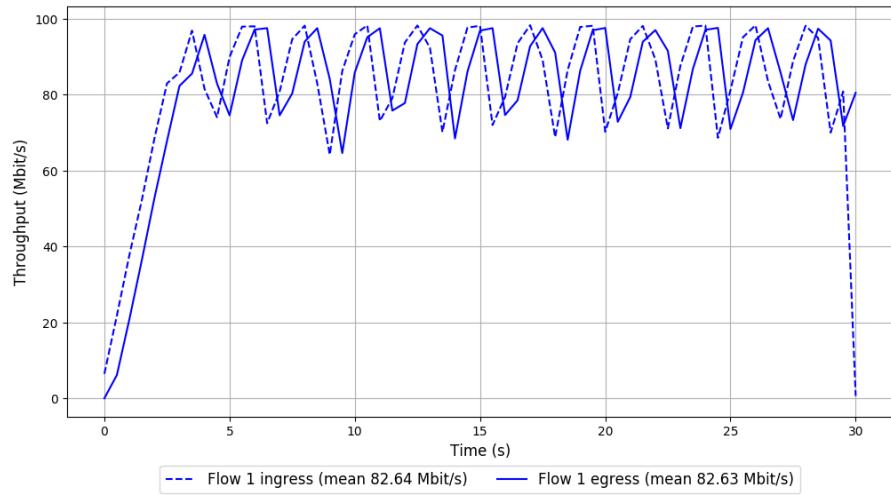


Run 5: Statistics of LEDBAT

```
Start at: 2019-06-27 15:13:13
End at: 2019-06-27 15:13:43
Local clock offset: -0.113 ms
Remote clock offset: -6.495 ms

# Below is generated by plot.py at 2019-06-27 15:41:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.63 Mbit/s
95th percentile per-packet one-way delay: 26.404 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 82.63 Mbit/s
95th percentile per-packet one-way delay: 26.404 ms
Loss rate: 0.09%
```

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 13:23:05

End at: 2019-06-27 13:23:35

Local clock offset: -0.862 ms

Remote clock offset: -3.656 ms

Run 1: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 13:50:40  
End at: 2019-06-27 13:51:10  
Local clock offset: -1.379 ms  
Remote clock offset: -3.745 ms

Run 2: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 14:18:14

End at: 2019-06-27 14:18:44

Local clock offset: -0.917 ms

Remote clock offset: -5.649 ms

Run 3: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 14:46:13  
End at: 2019-06-27 14:46:43  
Local clock offset: 0.201 ms  
Remote clock offset: -4.917 ms

Run 4: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 15:14:28

End at: 2019-06-27 15:14:58

Local clock offset: -0.93 ms

Remote clock offset: -6.662 ms

Run 5: Report of Muses\_DecisionTree — Data Link

Figure is missing

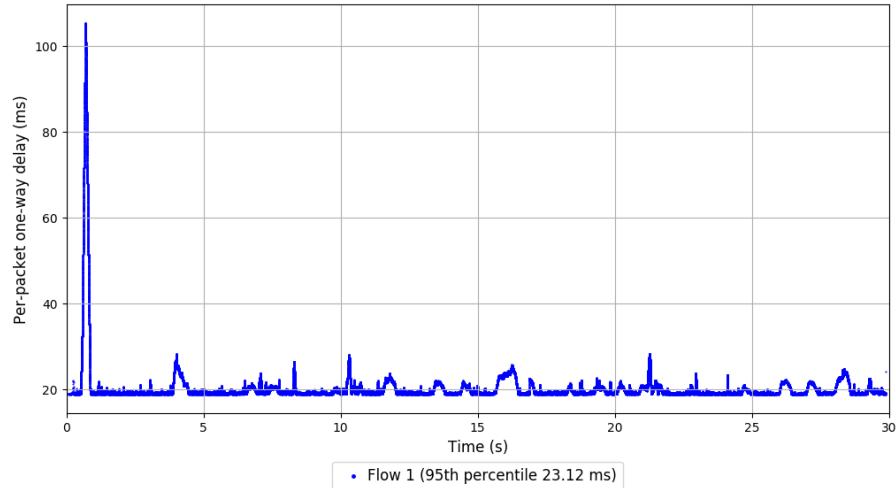
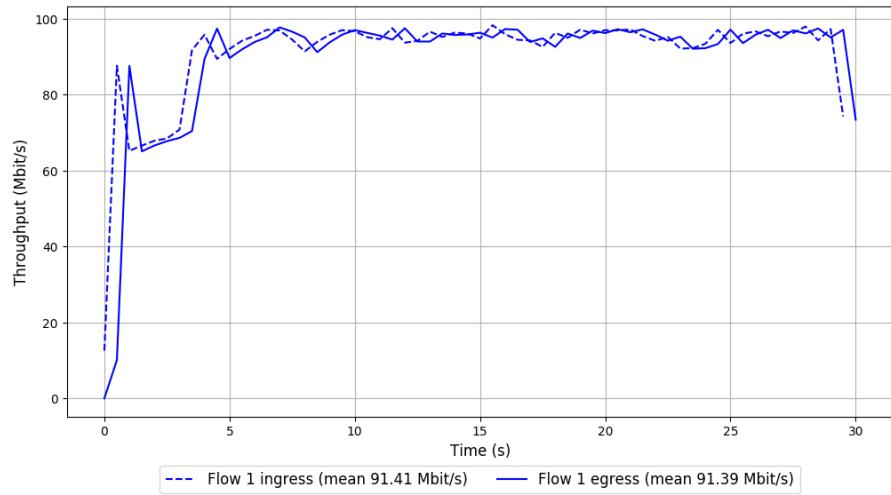
Figure is missing

Run 1: Statistics of PCC-Allegro

```
Start at: 2019-06-27 13:16:49
End at: 2019-06-27 13:17:19
Local clock offset: -0.074 ms
Remote clock offset: -3.921 ms

# Below is generated by plot.py at 2019-06-27 15:42:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 23.122 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 23.122 ms
Loss rate: 0.09%
```

Run 1: Report of PCC-Allegro — Data Link

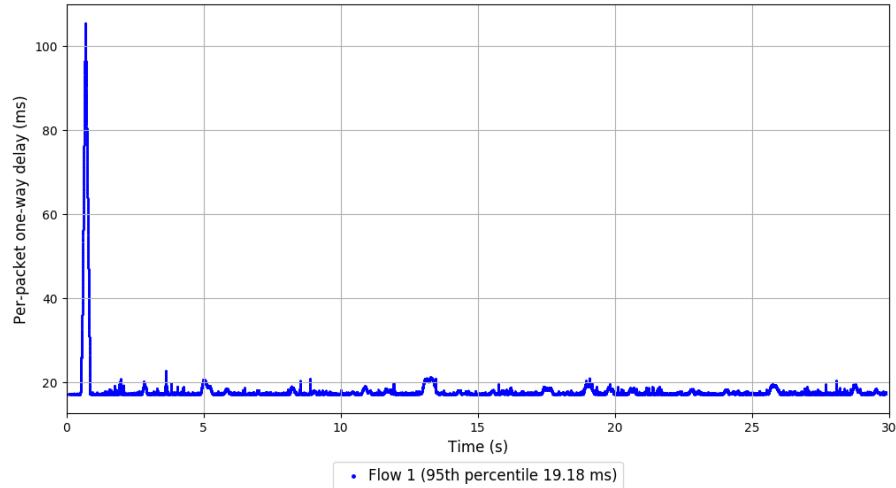
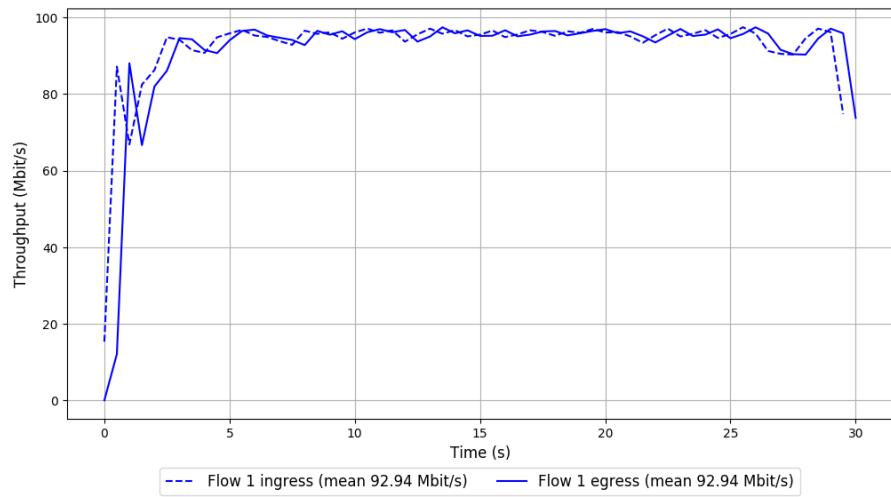


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-06-27 13:44:07
End at: 2019-06-27 13:44:37
Local clock offset: -0.309 ms
Remote clock offset: -3.663 ms

# Below is generated by plot.py at 2019-06-27 15:42:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 19.175 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 19.175 ms
Loss rate: 0.08%
```

## Run 2: Report of PCC-Allegro — Data Link

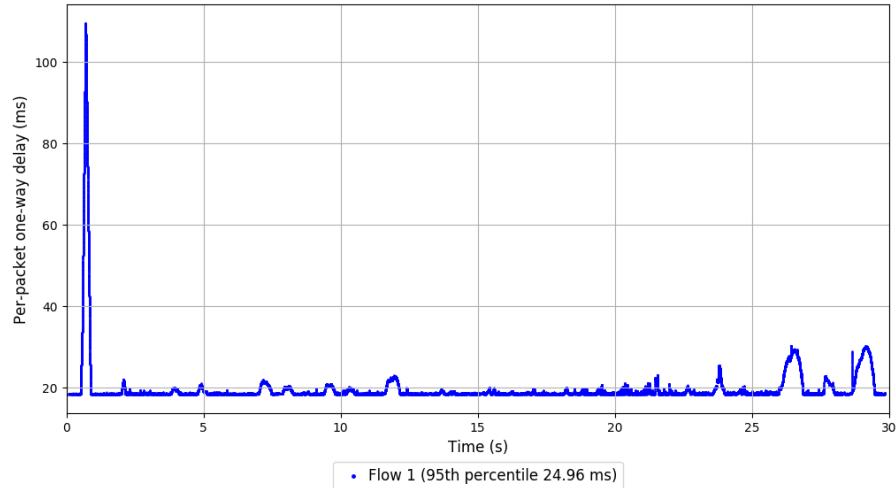
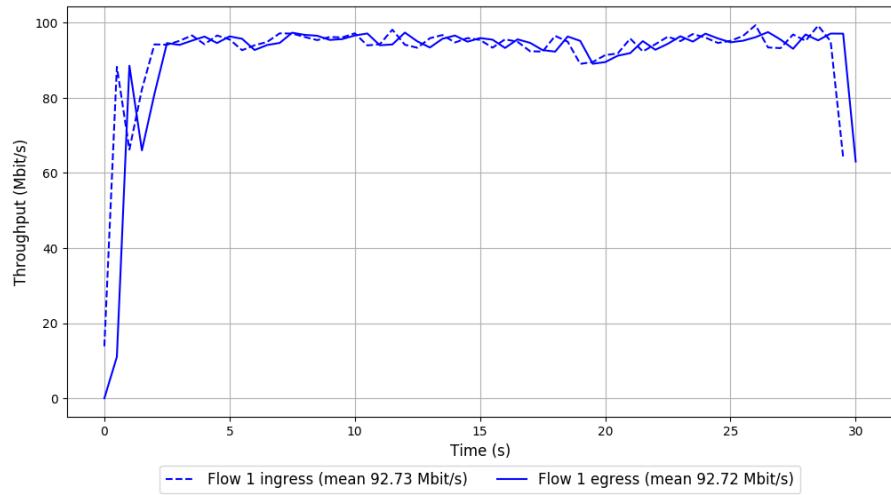


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-06-27 14:11:49
End at: 2019-06-27 14:12:19
Local clock offset: -0.526 ms
Remote clock offset: -5.696 ms

# Below is generated by plot.py at 2019-06-27 15:42:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 24.965 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 24.965 ms
Loss rate: 0.09%
```

### Run 3: Report of PCC-Allegro — Data Link

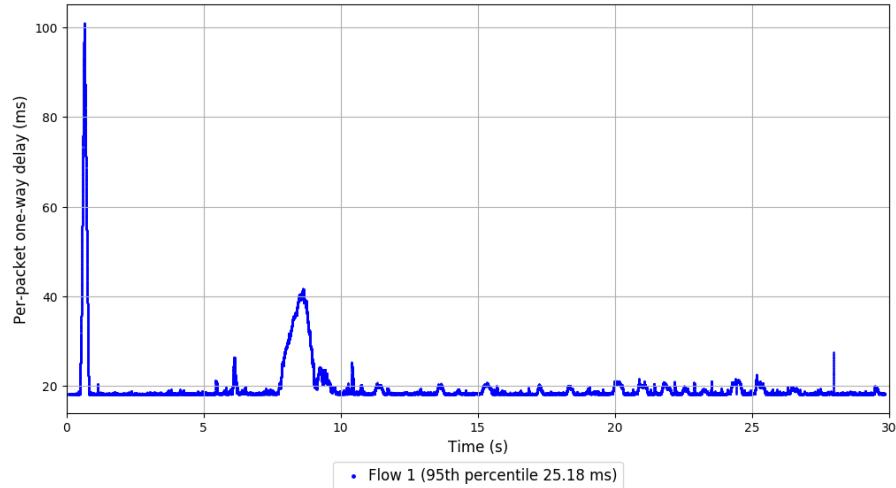
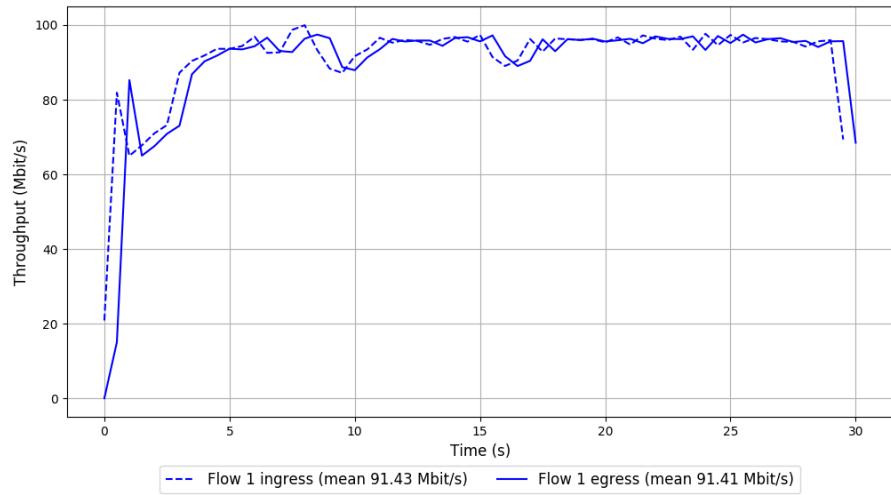


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-06-27 14:39:56
End at: 2019-06-27 14:40:26
Local clock offset: -0.832 ms
Remote clock offset: -6.325 ms

# Below is generated by plot.py at 2019-06-27 15:42:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.41 Mbit/s
95th percentile per-packet one-way delay: 25.181 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 91.41 Mbit/s
95th percentile per-packet one-way delay: 25.181 ms
Loss rate: 0.10%
```

### Run 4: Report of PCC-Allegro — Data Link

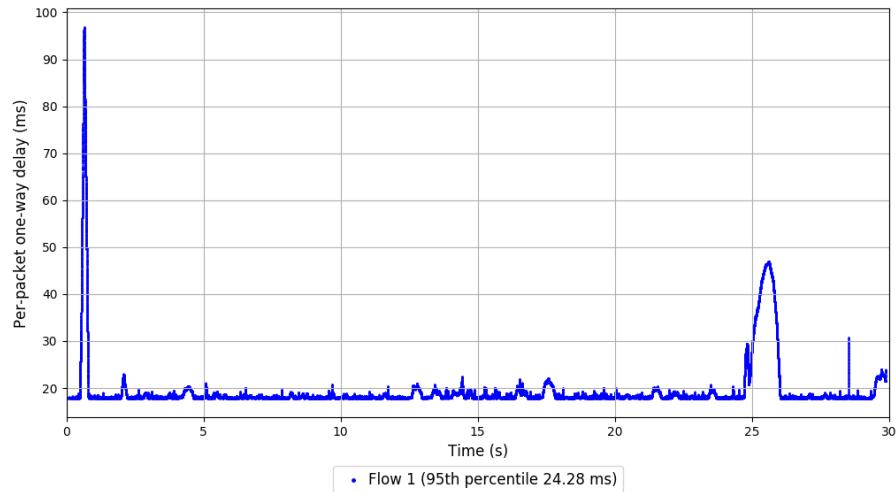
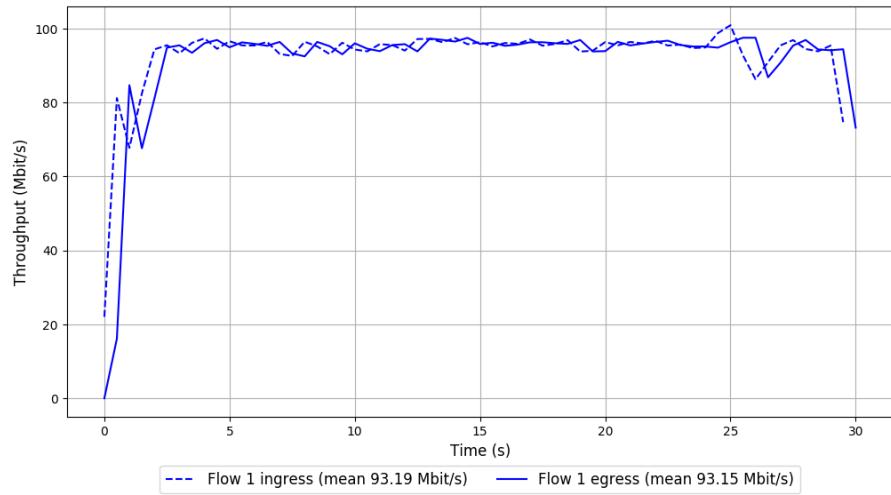


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-06-27 15:08:00
End at: 2019-06-27 15:08:30
Local clock offset: -0.903 ms
Remote clock offset: -6.14 ms

# Below is generated by plot.py at 2019-06-27 15:42:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 24.276 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 24.276 ms
Loss rate: 0.12%
```

Run 5: Report of PCC-Allegro — Data Link

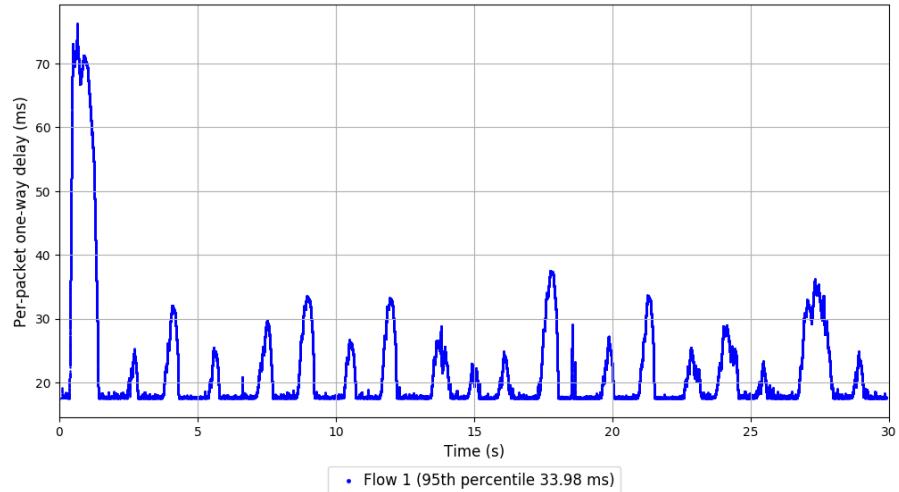
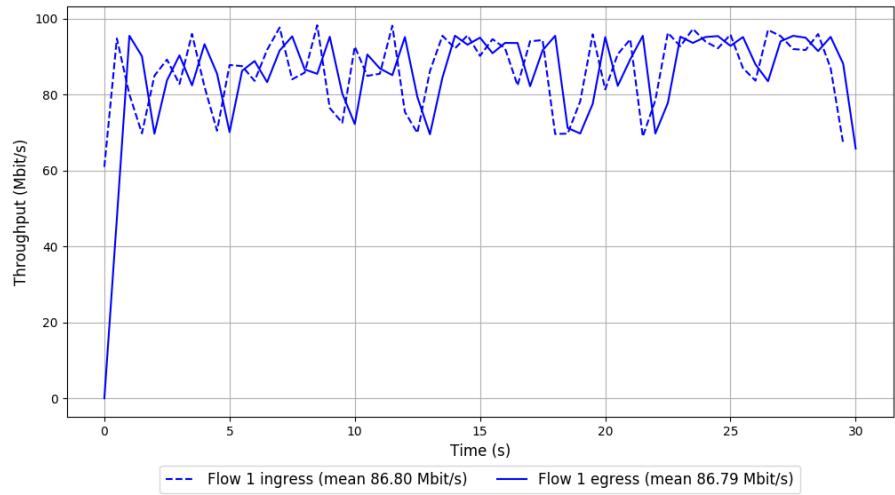


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-06-27 13:35:16
End at: 2019-06-27 13:35:46
Local clock offset: -4.335 ms
Remote clock offset: -7.862 ms

# Below is generated by plot.py at 2019-06-27 15:43:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.79 Mbit/s
95th percentile per-packet one-way delay: 33.977 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 86.79 Mbit/s
95th percentile per-packet one-way delay: 33.977 ms
Loss rate: 0.10%
```

Run 1: Report of PCC-Expr — Data Link

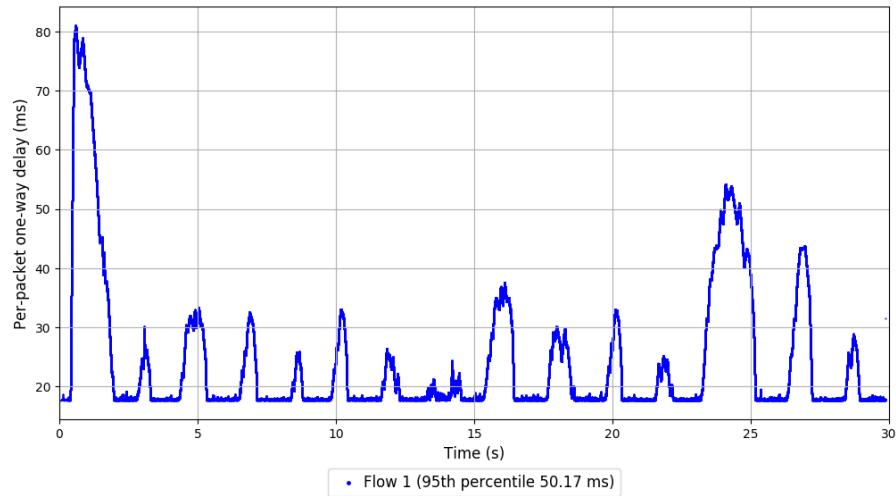
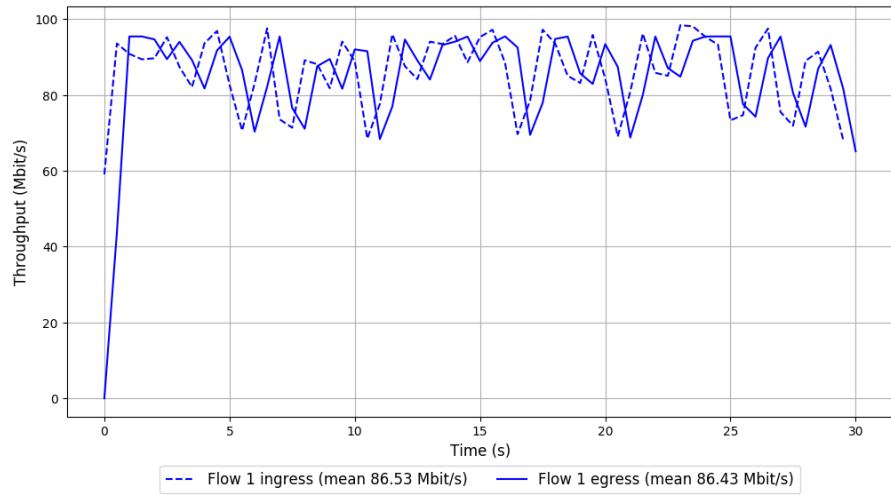


Run 2: Statistics of PCC-Expr

```
Start at: 2019-06-27 14:03:11
End at: 2019-06-27 14:03:41
Local clock offset: -1.165 ms
Remote clock offset: -5.484 ms

# Below is generated by plot.py at 2019-06-27 15:43:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.43 Mbit/s
95th percentile per-packet one-way delay: 50.171 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 86.43 Mbit/s
95th percentile per-packet one-way delay: 50.171 ms
Loss rate: 0.17%
```

Run 2: Report of PCC-Expr — Data Link

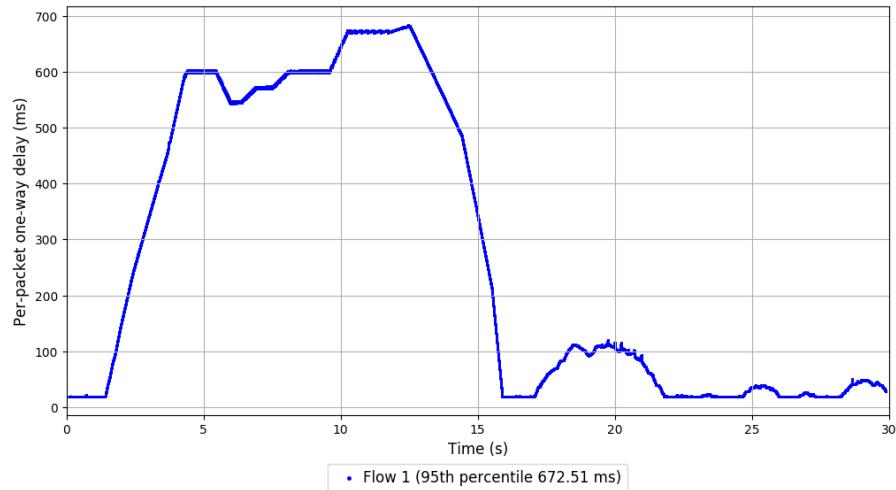
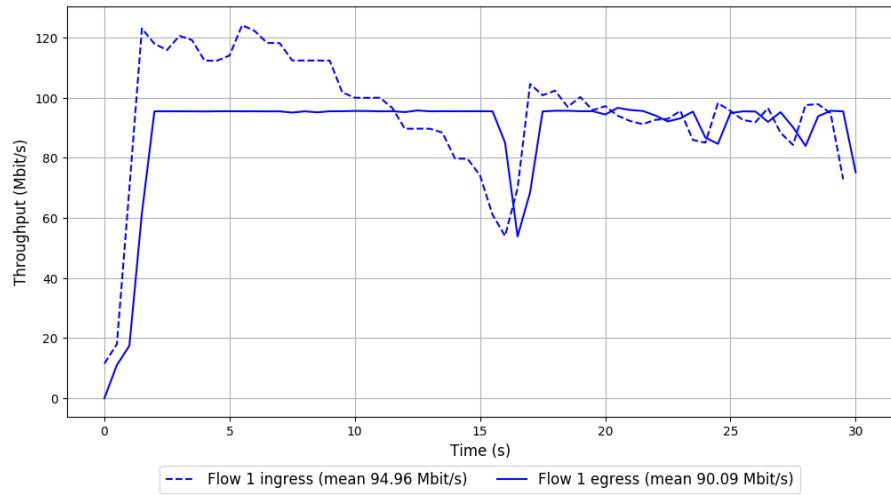


Run 3: Statistics of PCC-Expr

```
Start at: 2019-06-27 14:30:58
End at: 2019-06-27 14:31:28
Local clock offset: 0.078 ms
Remote clock offset: -5.734 ms

# Below is generated by plot.py at 2019-06-27 15:43:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 672.513 ms
Loss rate: 5.20%
-- Flow 1:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 672.513 ms
Loss rate: 5.20%
```

### Run 3: Report of PCC-Expr — Data Link

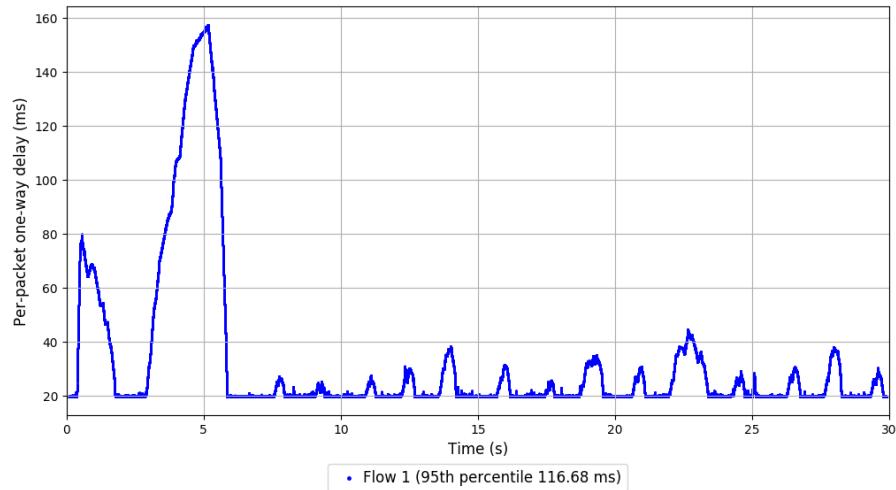
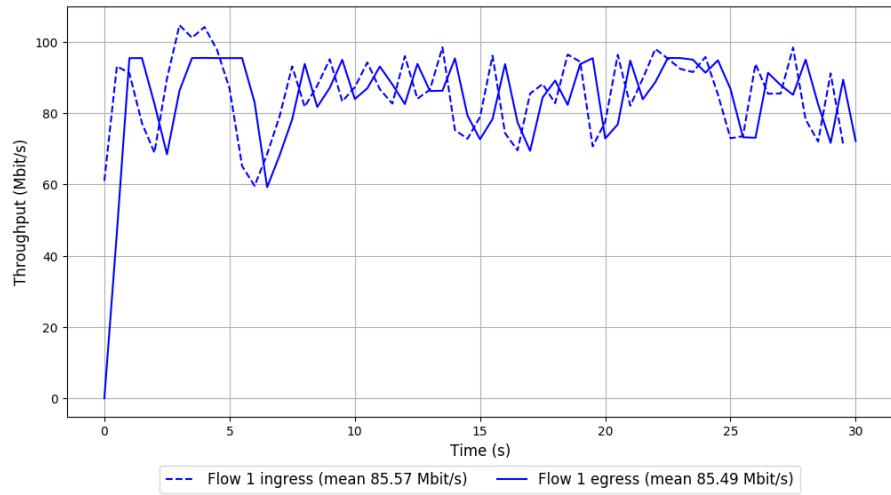


Run 4: Statistics of PCC-Expr

```
Start at: 2019-06-27 14:58:29
End at: 2019-06-27 14:58:59
Local clock offset: 0.411 ms
Remote clock offset: -6.527 ms

# Below is generated by plot.py at 2019-06-27 15:44:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.49 Mbit/s
95th percentile per-packet one-way delay: 116.682 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 85.49 Mbit/s
95th percentile per-packet one-way delay: 116.682 ms
Loss rate: 0.17%
```

Run 4: Report of PCC-Expr — Data Link

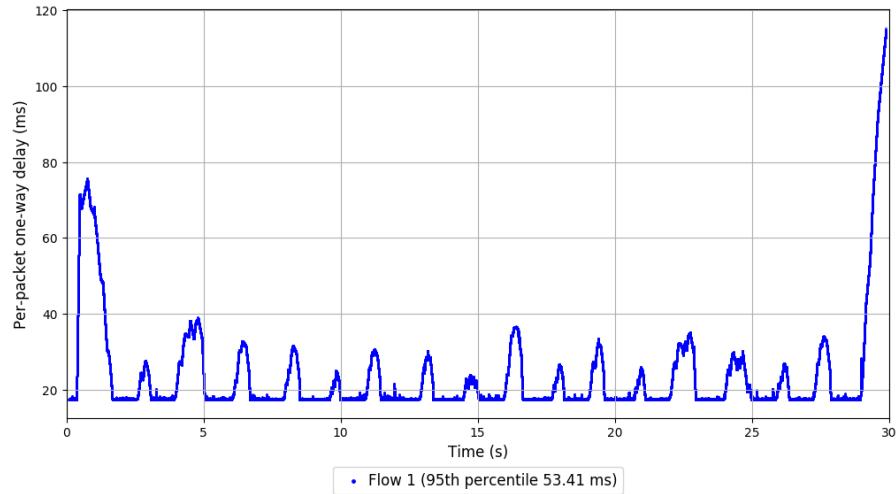
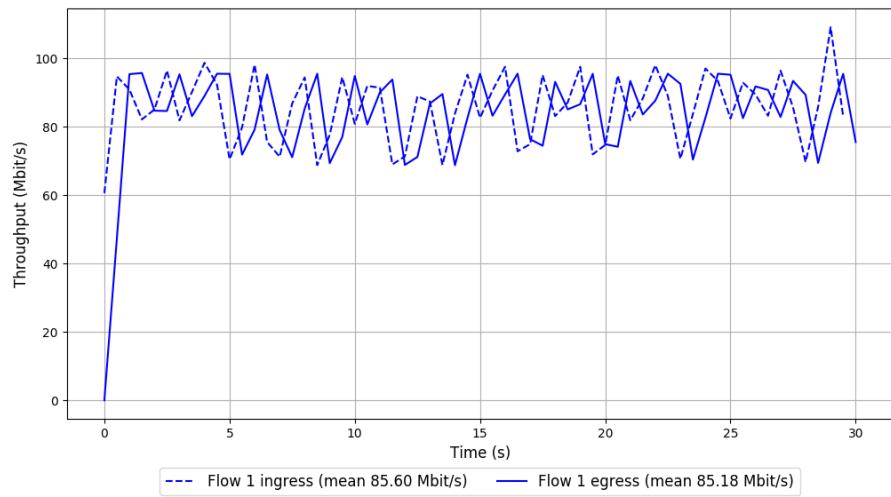


```
Run 5: Statistics of PCC-Expr
```

```
Start at: 2019-06-27 15:28:22
End at: 2019-06-27 15:28:52
Local clock offset: -0.153 ms
Remote clock offset: -5.791 ms

# Below is generated by plot.py at 2019-06-27 15:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.18 Mbit/s
95th percentile per-packet one-way delay: 53.414 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 85.18 Mbit/s
95th percentile per-packet one-way delay: 53.414 ms
Loss rate: 0.57%
```

Run 5: Report of PCC-Expr — Data Link

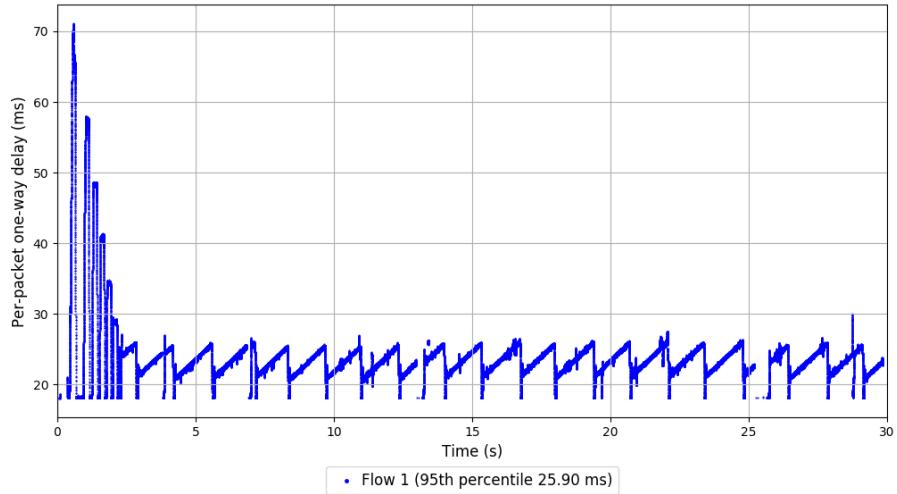
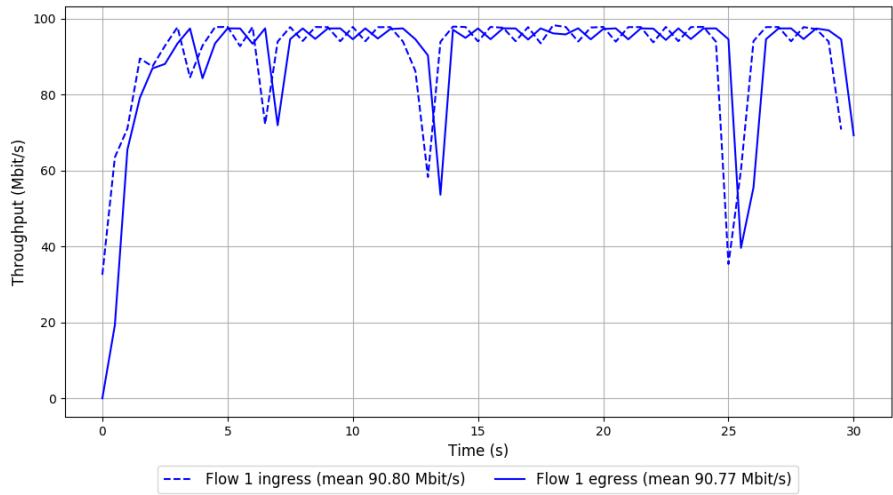


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-06-27 13:10:37
End at: 2019-06-27 13:11:07
Local clock offset: -1.473 ms
Remote clock offset: -4.559 ms

# Below is generated by plot.py at 2019-06-27 15:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.77 Mbit/s
95th percentile per-packet one-way delay: 25.904 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 90.77 Mbit/s
95th percentile per-packet one-way delay: 25.904 ms
Loss rate: 0.12%
```

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

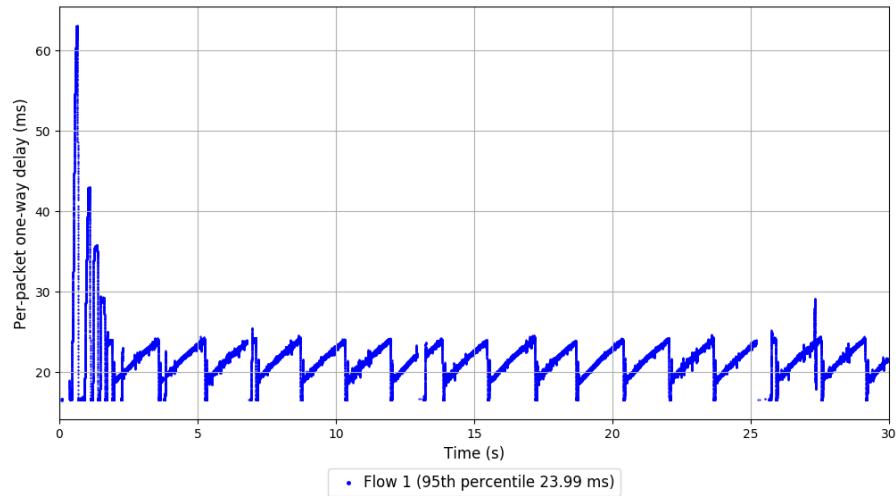
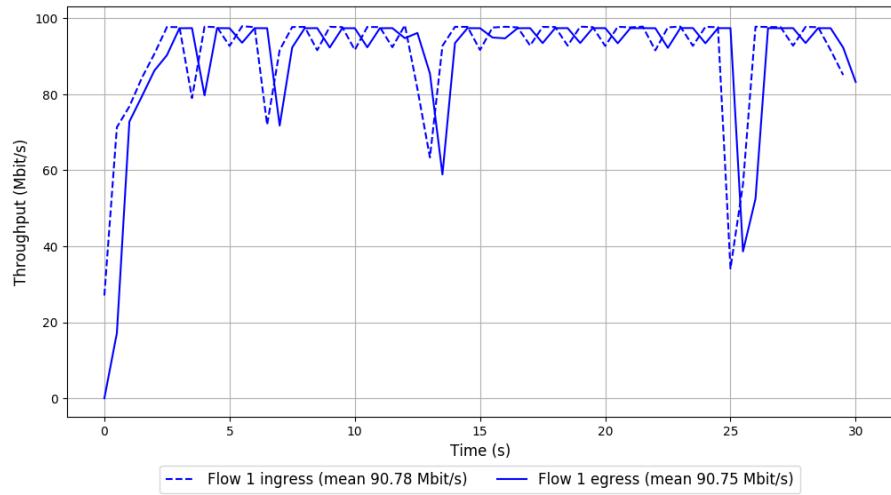


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-06-27 13:37:49
End at: 2019-06-27 13:38:19
Local clock offset: -1.048 ms
Remote clock offset: -3.647 ms

# Below is generated by plot.py at 2019-06-27 15:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.75 Mbit/s
95th percentile per-packet one-way delay: 23.991 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 90.75 Mbit/s
95th percentile per-packet one-way delay: 23.991 ms
Loss rate: 0.11%
```

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

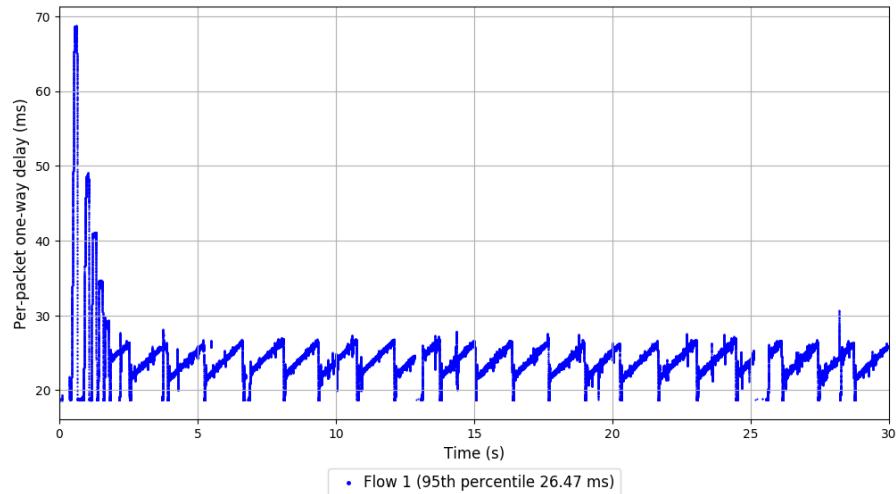
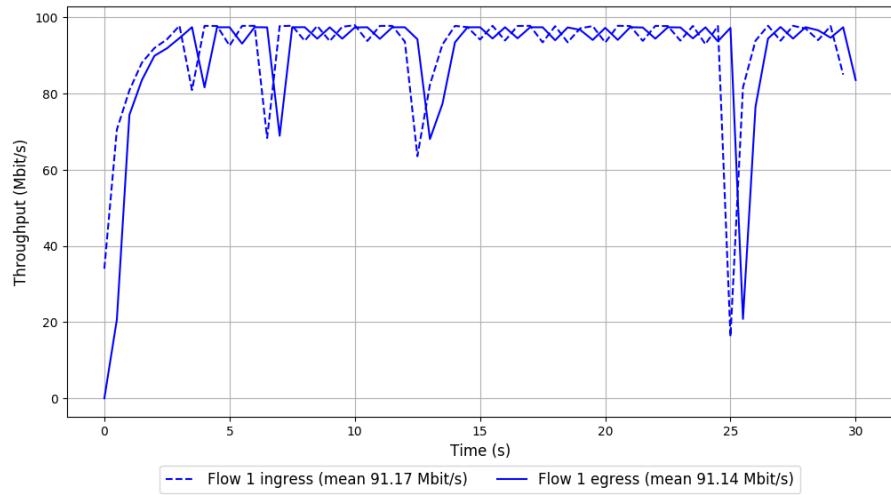


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-06-27 14:05:46
End at: 2019-06-27 14:06:16
Local clock offset: -0.734 ms
Remote clock offset: -6.331 ms

# Below is generated by plot.py at 2019-06-27 15:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 26.470 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 26.470 ms
Loss rate: 0.12%
```

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

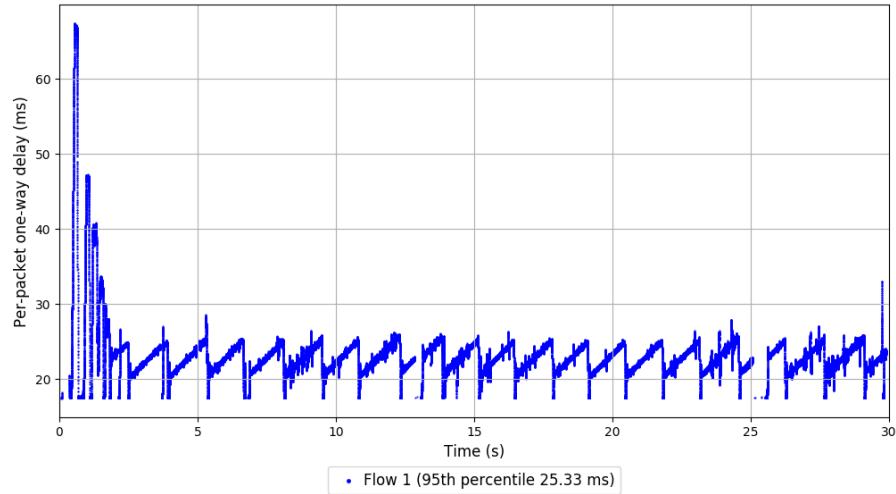
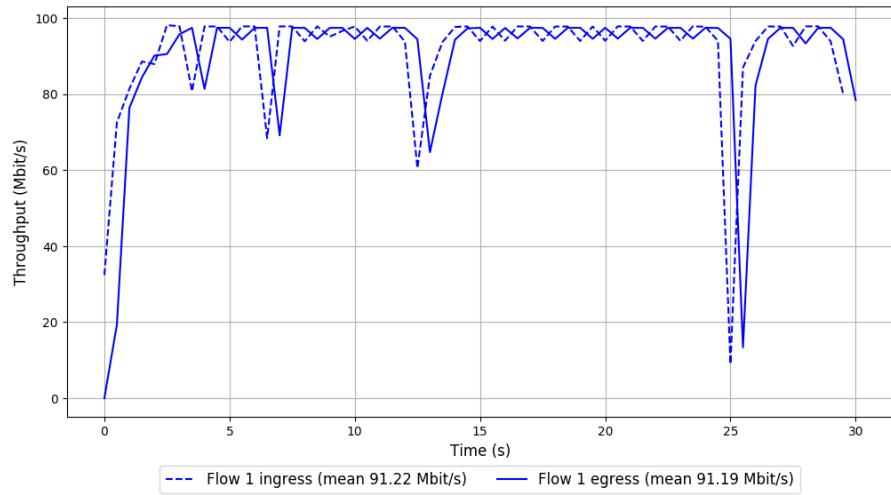


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-06-27 14:33:41
End at: 2019-06-27 14:34:11
Local clock offset: -0.259 ms
Remote clock offset: -4.726 ms

# Below is generated by plot.py at 2019-06-27 15:44:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.19 Mbit/s
95th percentile per-packet one-way delay: 25.333 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 91.19 Mbit/s
95th percentile per-packet one-way delay: 25.333 ms
Loss rate: 0.12%
```

Run 4: Report of QUIC Cubic — Data Link

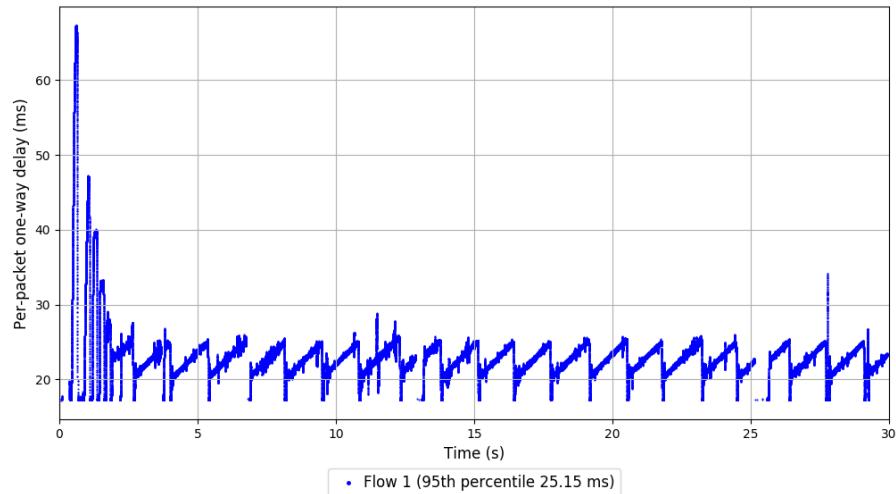
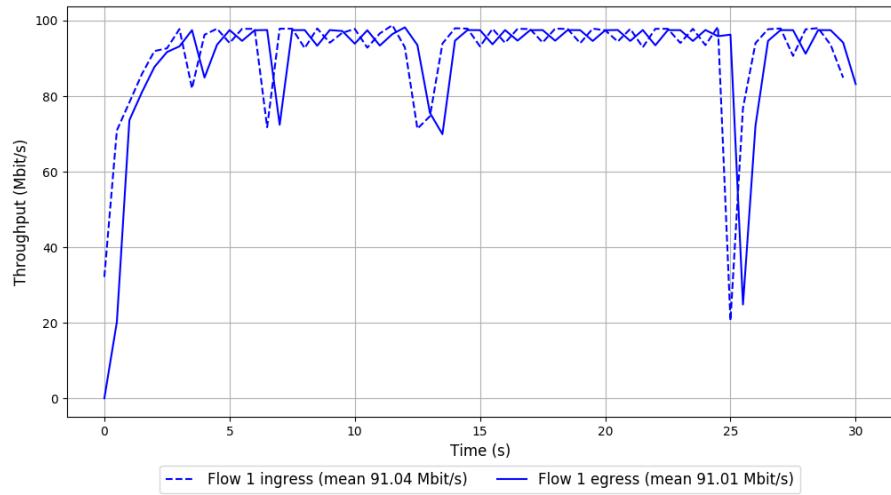


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-06-27 15:01:27
End at: 2019-06-27 15:01:57
Local clock offset: -0.4 ms
Remote clock offset: -5.135 ms

# Below is generated by plot.py at 2019-06-27 15:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.01 Mbit/s
95th percentile per-packet one-way delay: 25.149 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 91.01 Mbit/s
95th percentile per-packet one-way delay: 25.149 ms
Loss rate: 0.12%
```

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

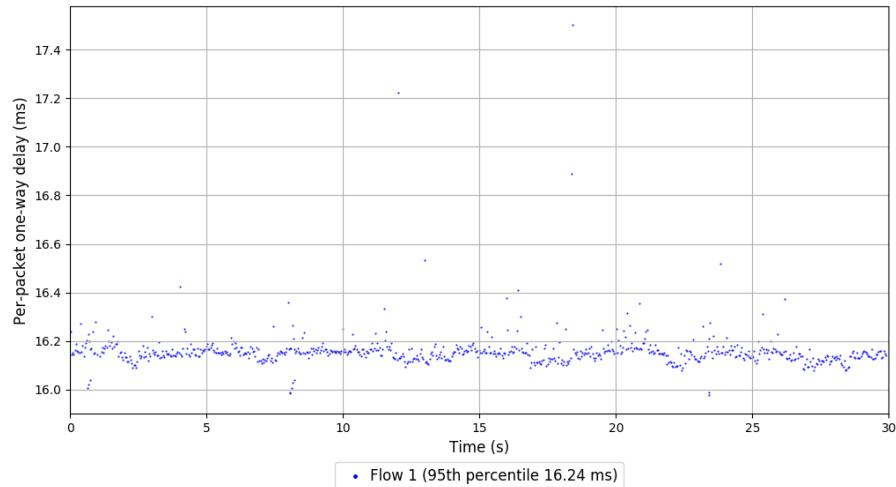
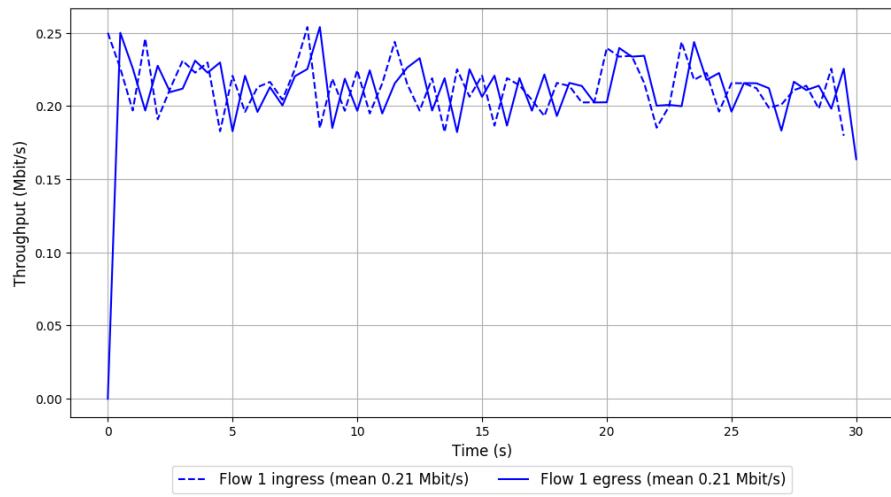


```
Run 1: Statistics of SCReAM

Start at: 2019-06-27 13:25:21
End at: 2019-06-27 13:25:51
Local clock offset: -1.083 ms
Remote clock offset: -2.9 ms

# Below is generated by plot.py at 2019-06-27 15:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.238 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.238 ms
Loss rate: 0.13%
```

Run 1: Report of SCReAM — Data Link

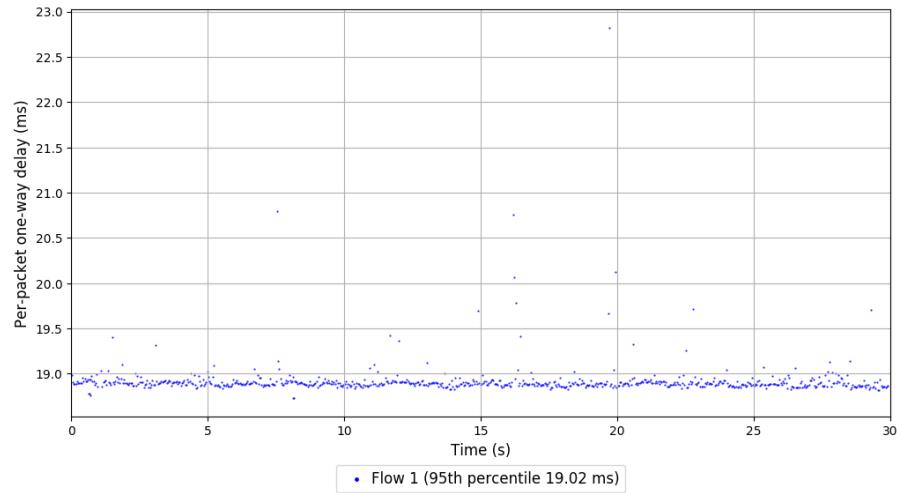
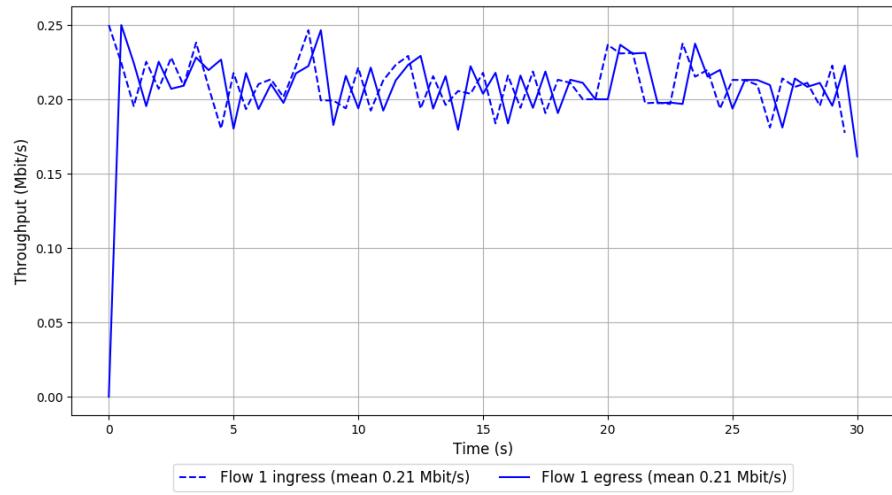


Run 2: Statistics of SCReAM

```
Start at: 2019-06-27 13:53:02
End at: 2019-06-27 13:53:32
Local clock offset: -0.604 ms
Remote clock offset: -5.824 ms

# Below is generated by plot.py at 2019-06-27 15:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 19.017 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 19.017 ms
Loss rate: 0.13%
```

Run 2: Report of SCReAM — Data Link

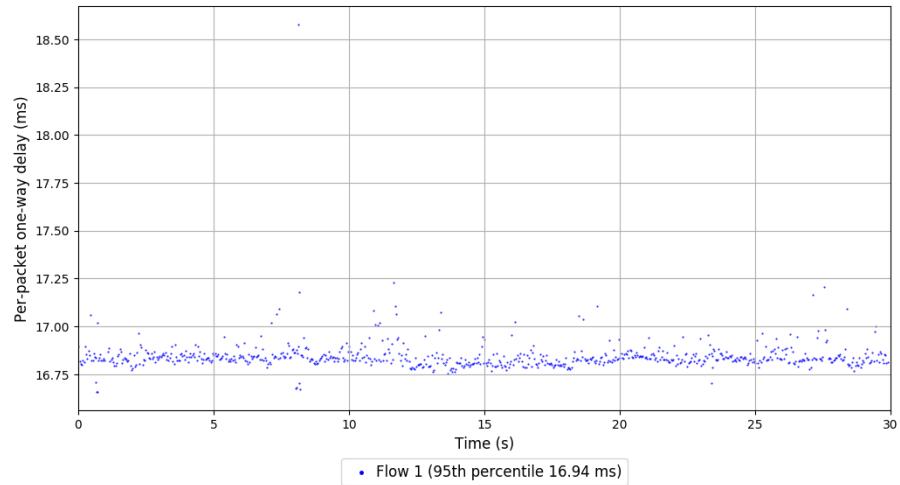
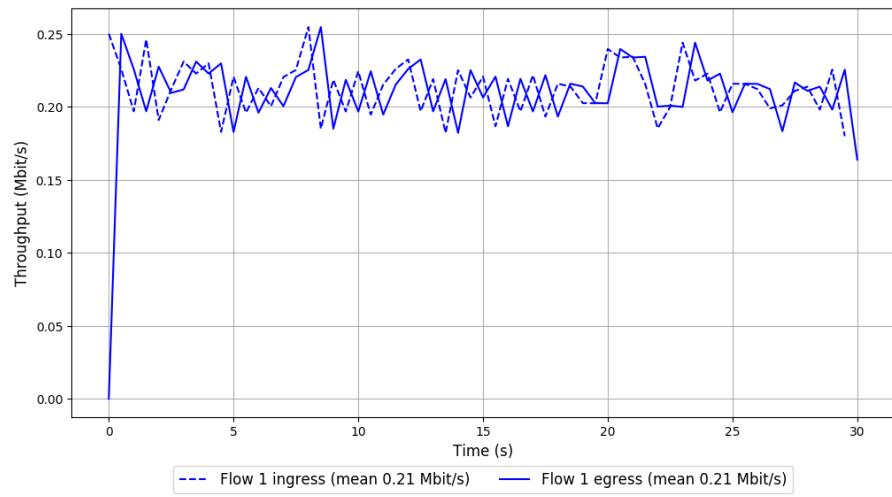


Run 3: Statistics of SCReAM

```
Start at: 2019-06-27 14:20:34
End at: 2019-06-27 14:21:04
Local clock offset: -0.809 ms
Remote clock offset: -4.395 ms

# Below is generated by plot.py at 2019-06-27 15:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.942 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.942 ms
Loss rate: 0.13%
```

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

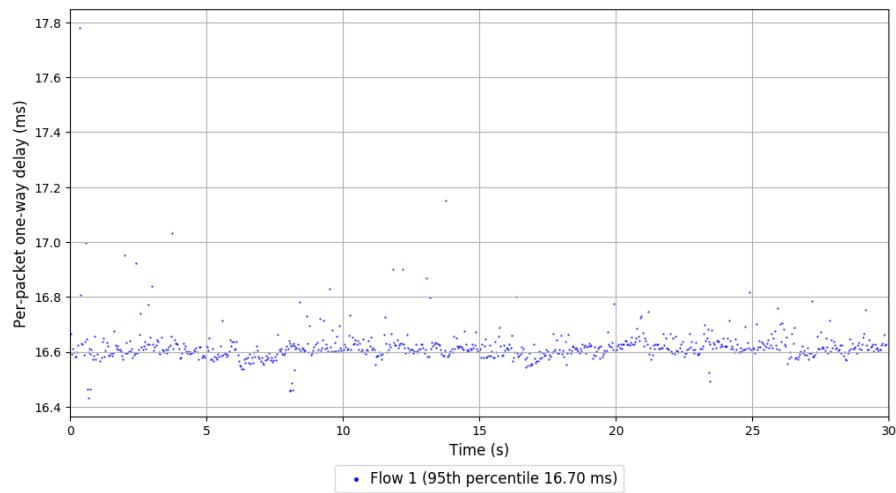
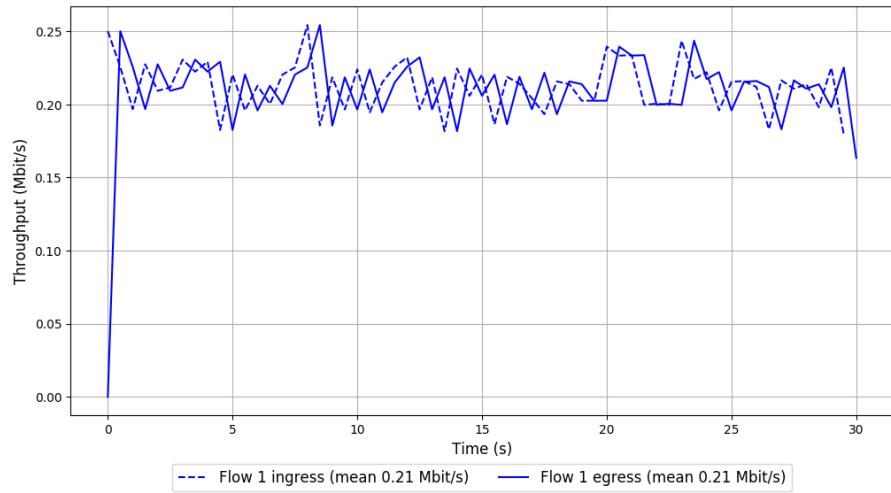


Run 4: Statistics of SCReAM

```
Start at: 2019-06-27 14:48:32
End at: 2019-06-27 14:49:02
Local clock offset: -0.577 ms
Remote clock offset: -4.357 ms

# Below is generated by plot.py at 2019-06-27 15:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.695 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.695 ms
Loss rate: 0.13%
```

Run 4: Report of SCReAM — Data Link

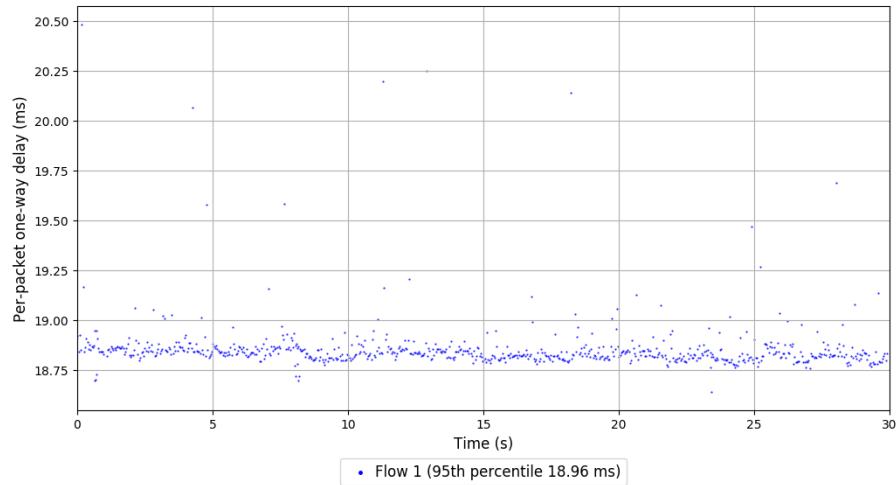
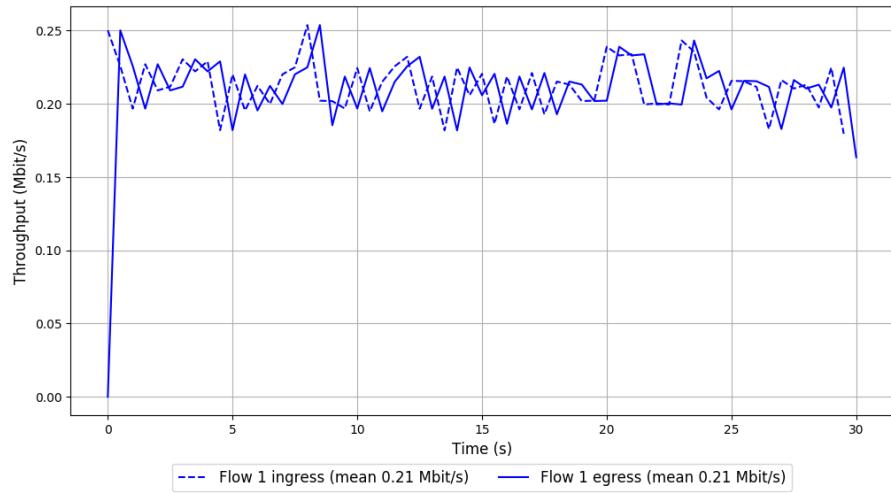


Run 5: Statistics of SCReAM

```
Start at: 2019-06-27 15:16:46
End at: 2019-06-27 15:17:16
Local clock offset: -0.841 ms
Remote clock offset: -7.351 ms

# Below is generated by plot.py at 2019-06-27 15:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 18.962 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 18.962 ms
Loss rate: 0.13%
```

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

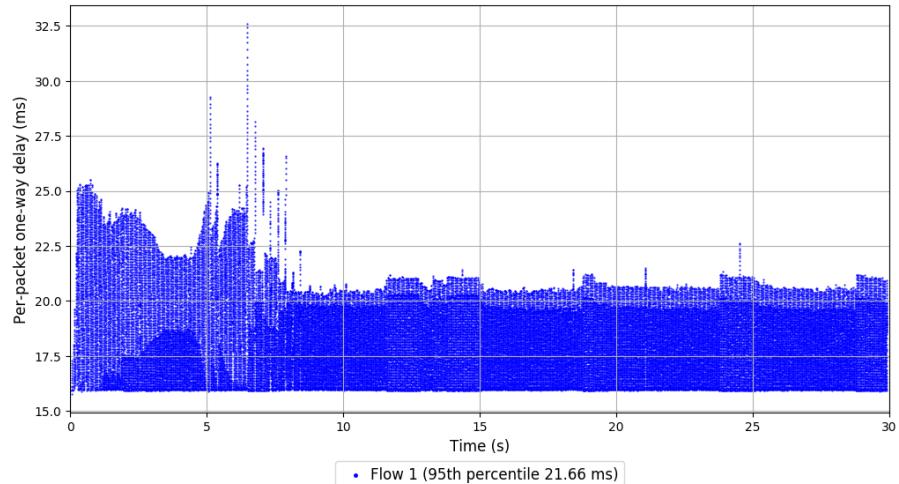
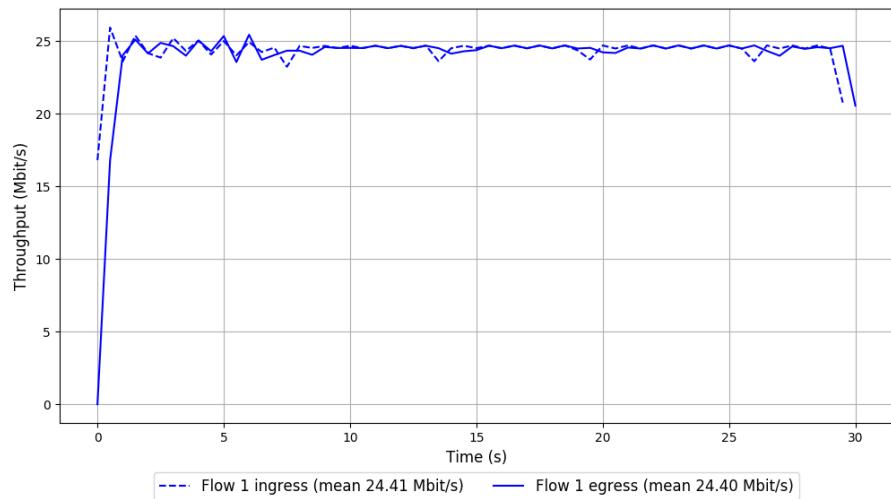


Run 1: Statistics of Sprout

```
Start at: 2019-06-27 13:11:46
End at: 2019-06-27 13:12:16
Local clock offset: -1.87 ms
Remote clock offset: -2.667 ms

# Below is generated by plot.py at 2019-06-27 15:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.40 Mbit/s
95th percentile per-packet one-way delay: 21.664 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 24.40 Mbit/s
95th percentile per-packet one-way delay: 21.664 ms
Loss rate: 0.10%
```

## Run 1: Report of Sprout — Data Link

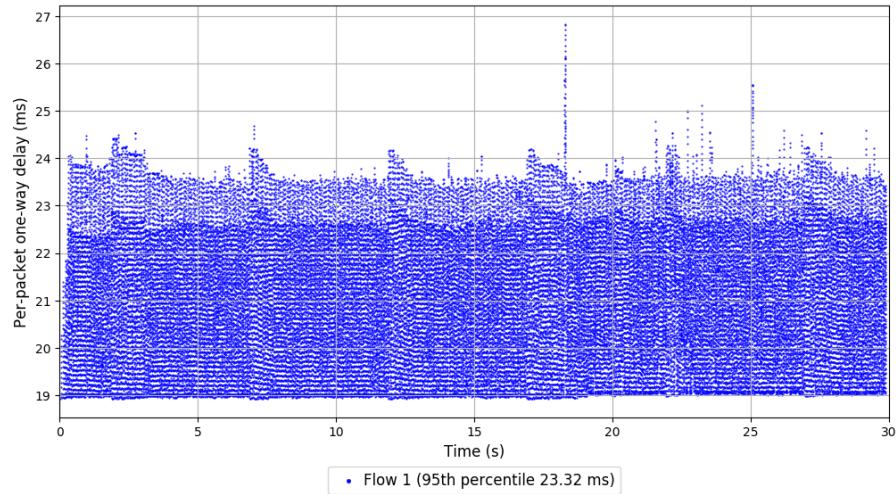
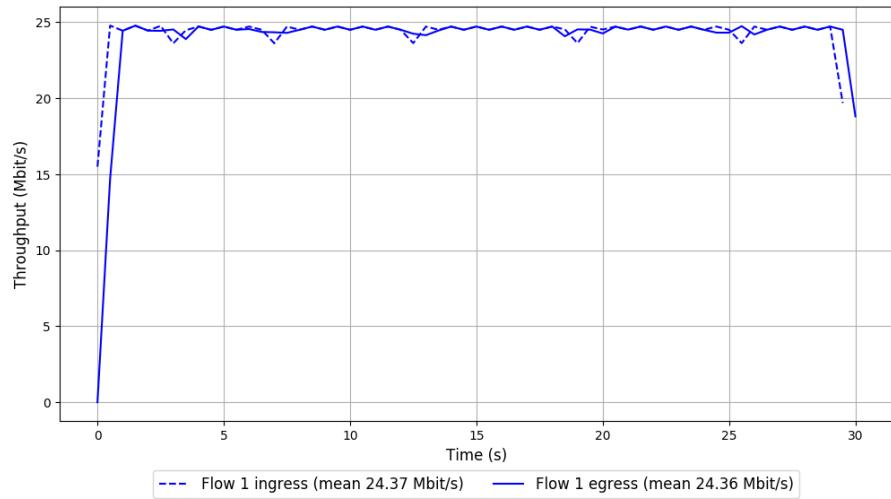


Run 2: Statistics of Sprout

```
Start at: 2019-06-27 13:39:02
End at: 2019-06-27 13:39:32
Local clock offset: -0.88 ms
Remote clock offset: -5.967 ms

# Below is generated by plot.py at 2019-06-27 15:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.36 Mbit/s
95th percentile per-packet one-way delay: 23.320 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.36 Mbit/s
95th percentile per-packet one-way delay: 23.320 ms
Loss rate: 0.14%
```

## Run 2: Report of Sprout — Data Link

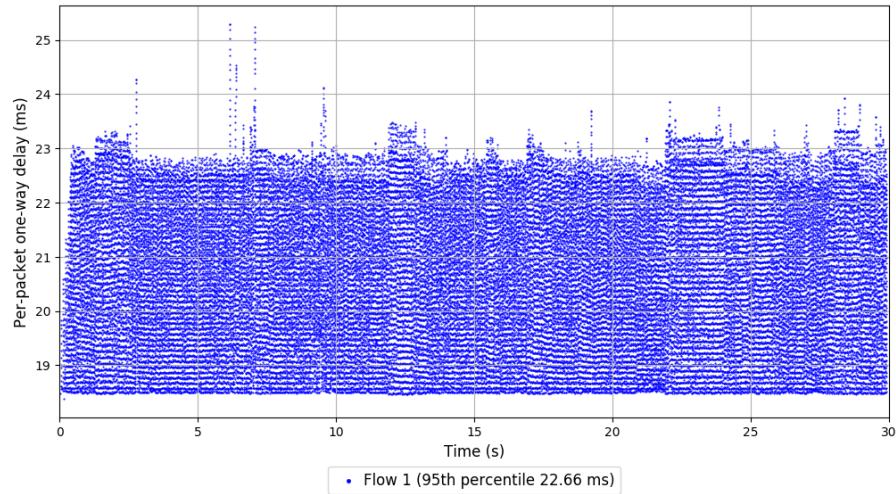
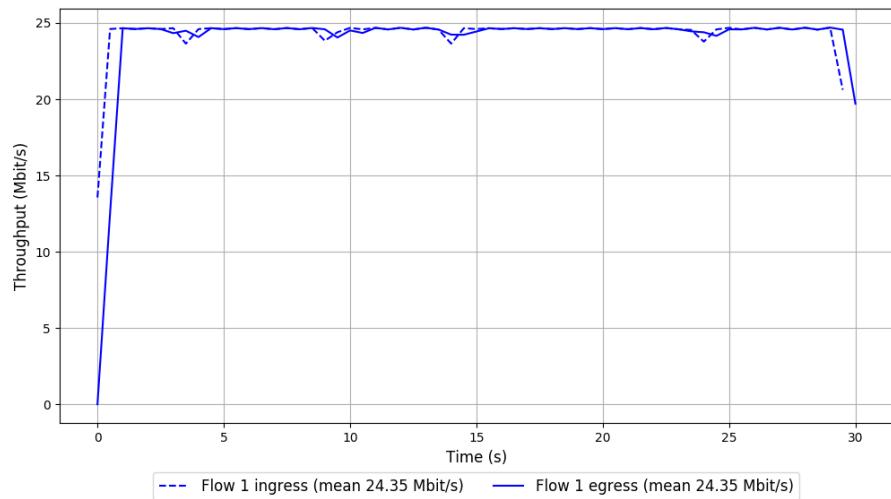


Run 3: Statistics of Sprout

```
Start at: 2019-06-27 14:07:03
End at: 2019-06-27 14:07:33
Local clock offset: 0.409 ms
Remote clock offset: -4.732 ms

# Below is generated by plot.py at 2019-06-27 15:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.35 Mbit/s
95th percentile per-packet one-way delay: 22.657 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.35 Mbit/s
95th percentile per-packet one-way delay: 22.657 ms
Loss rate: 0.14%
```

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

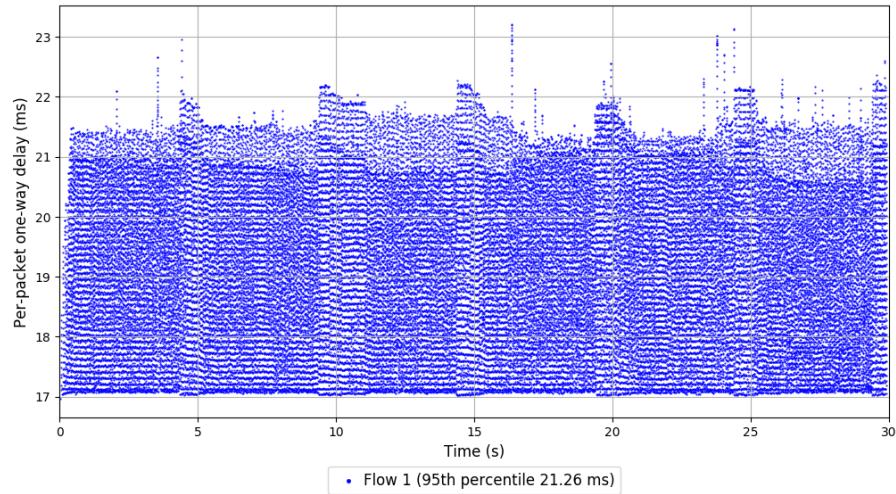
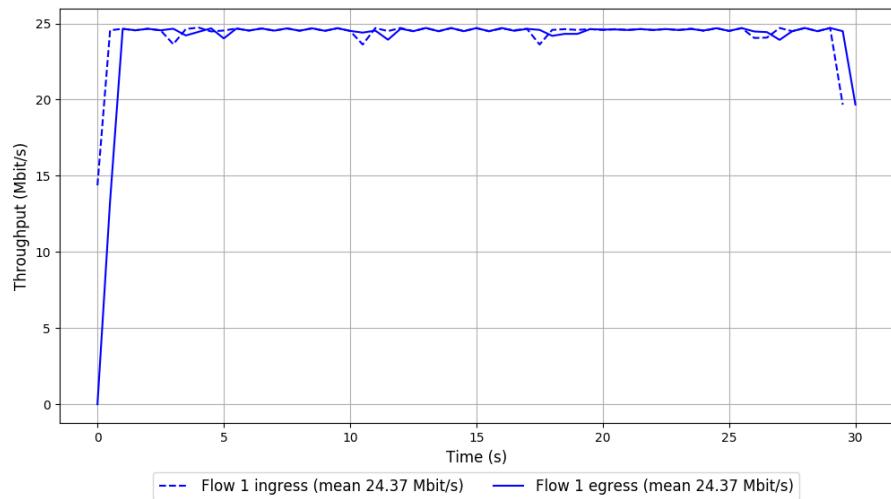


Run 4: Statistics of Sprout

```
Start at: 2019-06-27 14:34:57
End at: 2019-06-27 14:35:27
Local clock offset: -0.62 ms
Remote clock offset: -4.531 ms

# Below is generated by plot.py at 2019-06-27 15:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 21.262 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 21.262 ms
Loss rate: 0.07%
```

## Run 4: Report of Sprout — Data Link

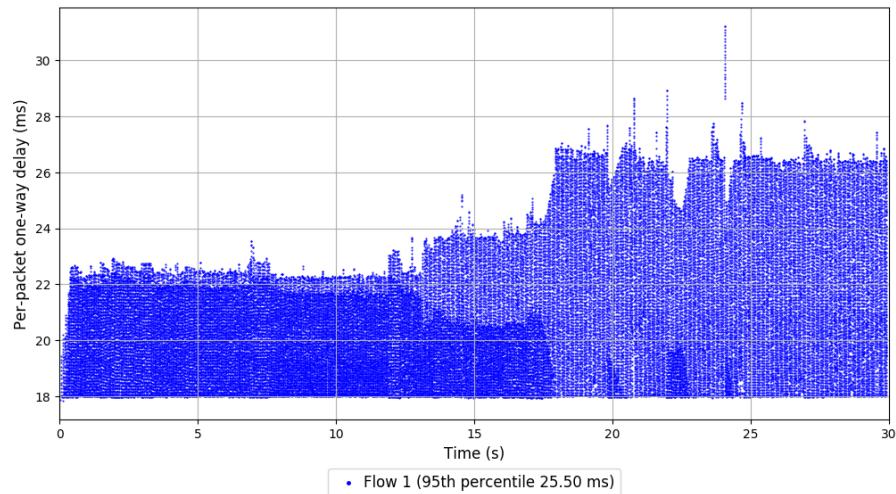
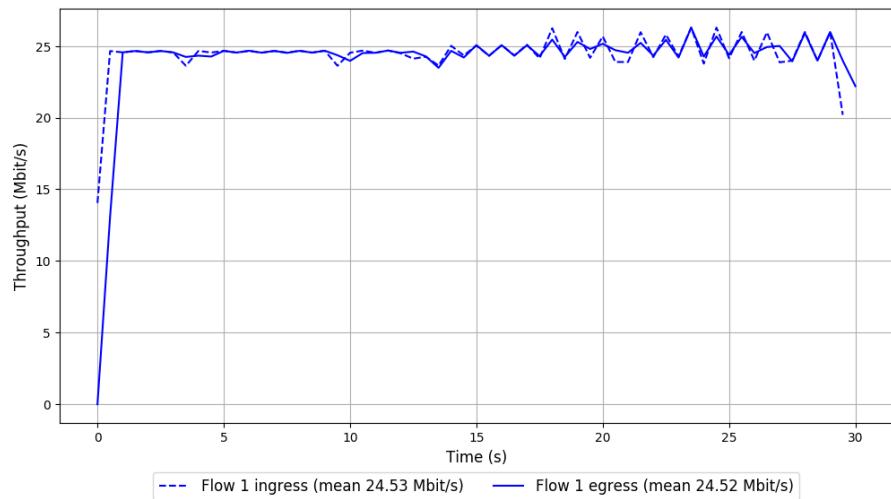


Run 5: Statistics of Sprout

```
Start at: 2019-06-27 15:02:46
End at: 2019-06-27 15:03:16
Local clock offset: -1.344 ms
Remote clock offset: -6.528 ms

# Below is generated by plot.py at 2019-06-27 15:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 25.501 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 25.501 ms
Loss rate: 0.01%
```

Run 5: Report of Sprout — Data Link

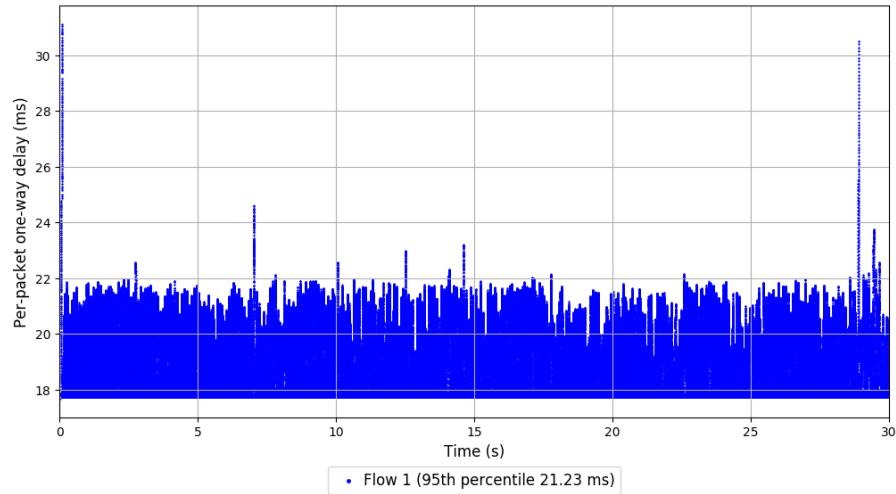
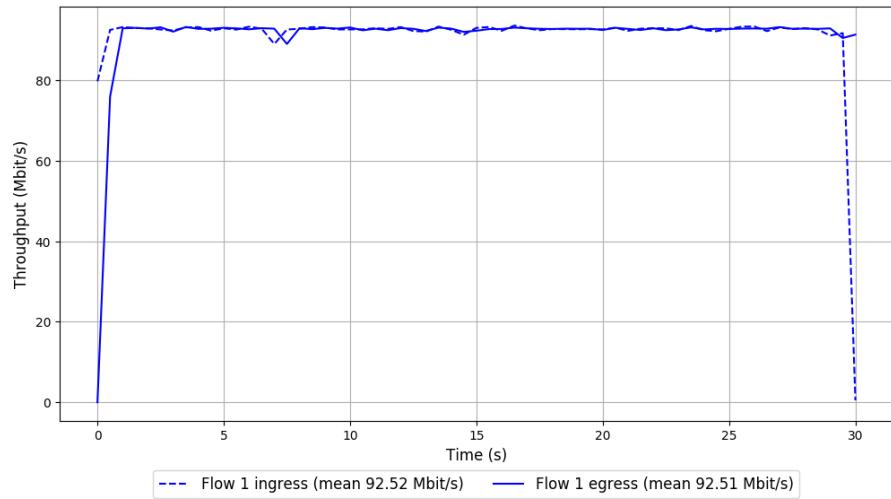


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-06-27 13:33:56
End at: 2019-06-27 13:34:26
Local clock offset: -0.691 ms
Remote clock offset: -4.317 ms

# Below is generated by plot.py at 2019-06-27 15:46:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.51 Mbit/s
95th percentile per-packet one-way delay: 21.231 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 92.51 Mbit/s
95th percentile per-packet one-way delay: 21.231 ms
Loss rate: 0.08%
```

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

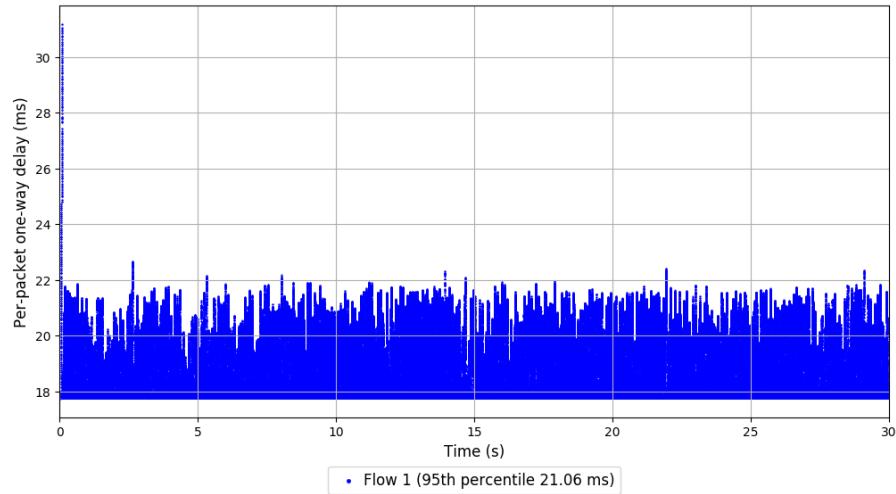
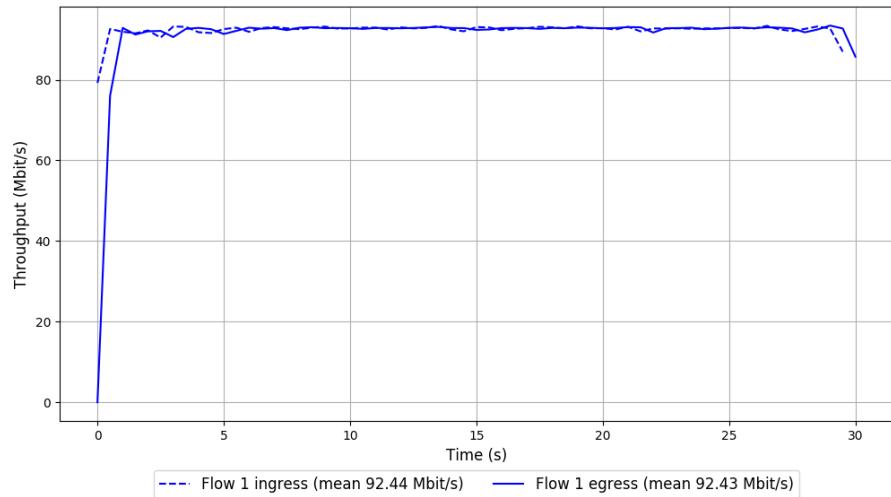


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-06-27 14:01:38
End at: 2019-06-27 14:02:08
Local clock offset: 0.141 ms
Remote clock offset: -4.368 ms

# Below is generated by plot.py at 2019-06-27 15:46:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 21.059 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 21.059 ms
Loss rate: 0.09%
```

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

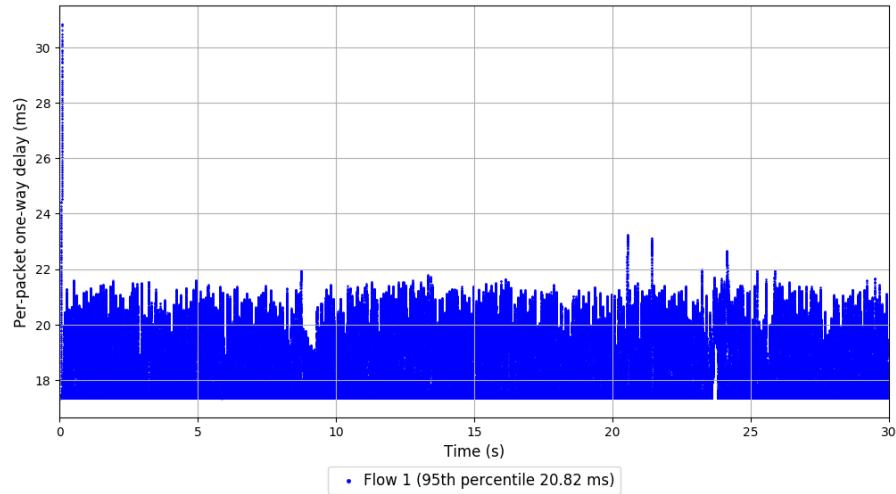
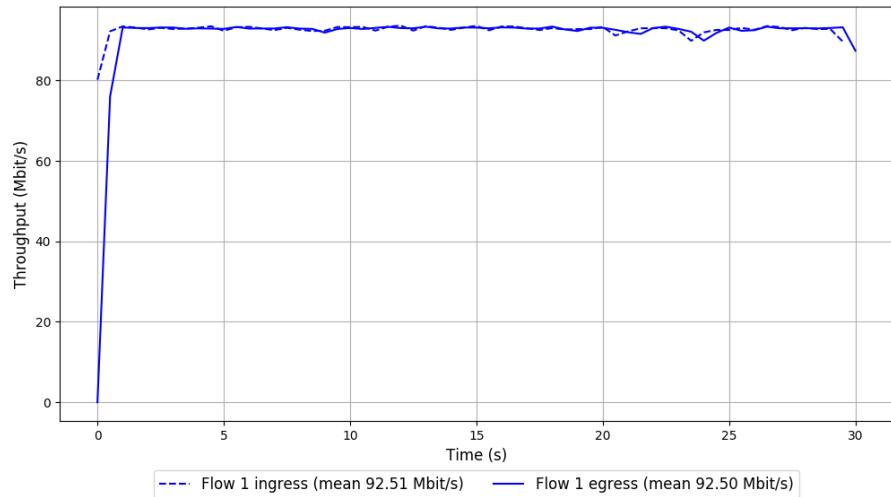


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-06-27 14:29:18
End at: 2019-06-27 14:29:48
Local clock offset: -0.977 ms
Remote clock offset: -5.243 ms

# Below is generated by plot.py at 2019-06-27 15:46:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.50 Mbit/s
95th percentile per-packet one-way delay: 20.818 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 92.50 Mbit/s
95th percentile per-packet one-way delay: 20.818 ms
Loss rate: 0.10%
```

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

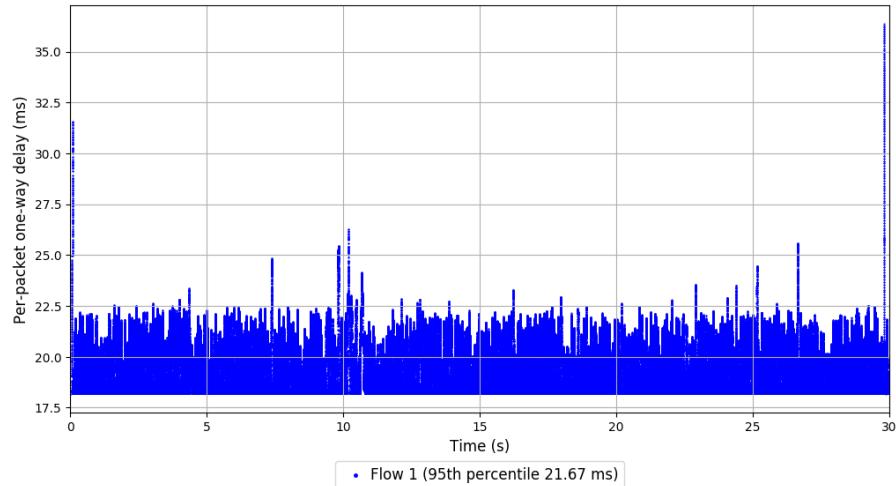
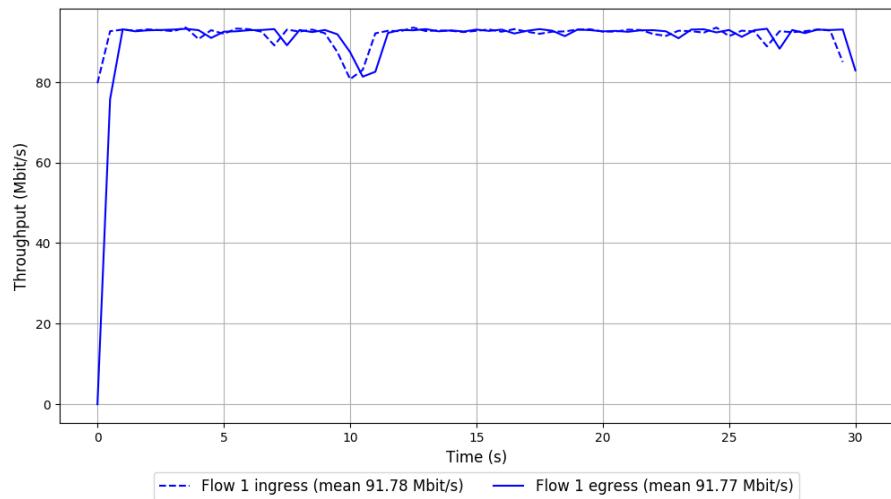


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-06-27 14:56:58
End at: 2019-06-27 14:57:28
Local clock offset: -0.723 ms
Remote clock offset: -6.142 ms

# Below is generated by plot.py at 2019-06-27 15:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.77 Mbit/s
95th percentile per-packet one-way delay: 21.669 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 91.77 Mbit/s
95th percentile per-packet one-way delay: 21.669 ms
Loss rate: 0.10%
```

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

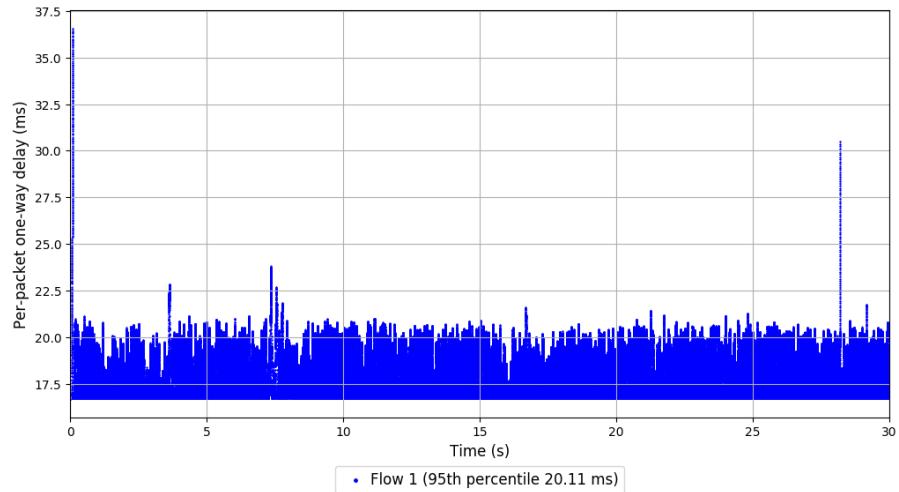
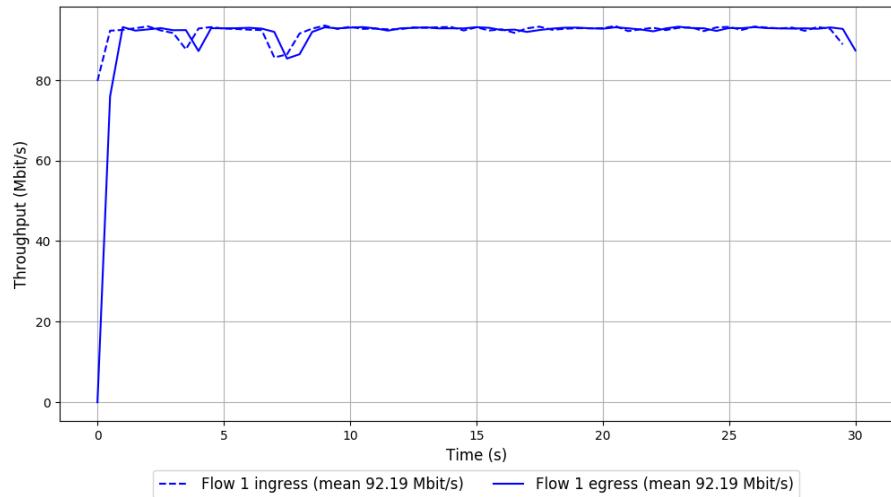


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-06-27 15:27:01
End at: 2019-06-27 15:27:31
Local clock offset: -1.027 ms
Remote clock offset: -5.764 ms

# Below is generated by plot.py at 2019-06-27 15:46:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 20.106 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 20.106 ms
Loss rate: 0.09%
```

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

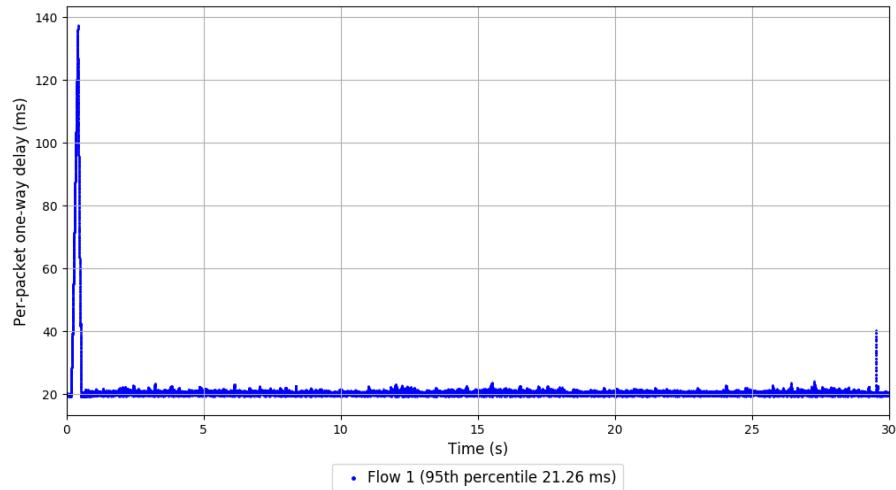
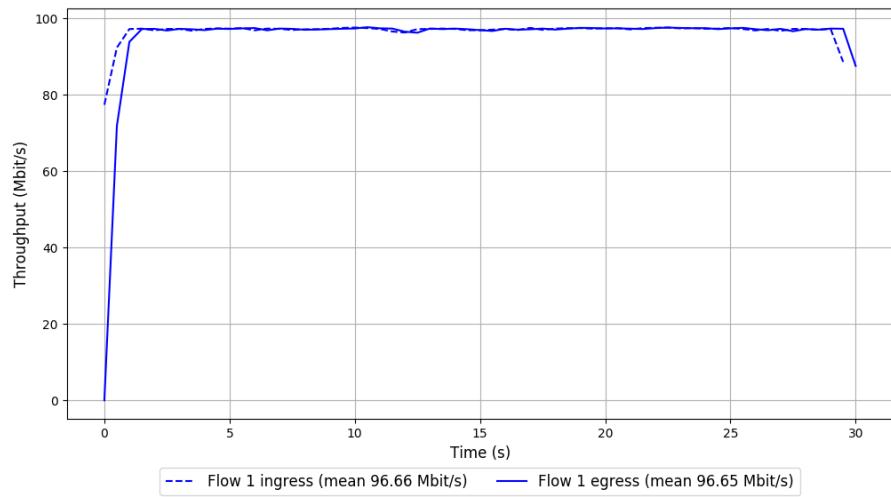


Run 1: Statistics of TCP Vegas

```
Start at: 2019-06-27 13:18:02
End at: 2019-06-27 13:18:32
Local clock offset: -1.128 ms
Remote clock offset: -5.712 ms

# Below is generated by plot.py at 2019-06-27 15:46:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 21.259 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 21.259 ms
Loss rate: 0.09%
```

Run 1: Report of TCP Vegas — Data Link

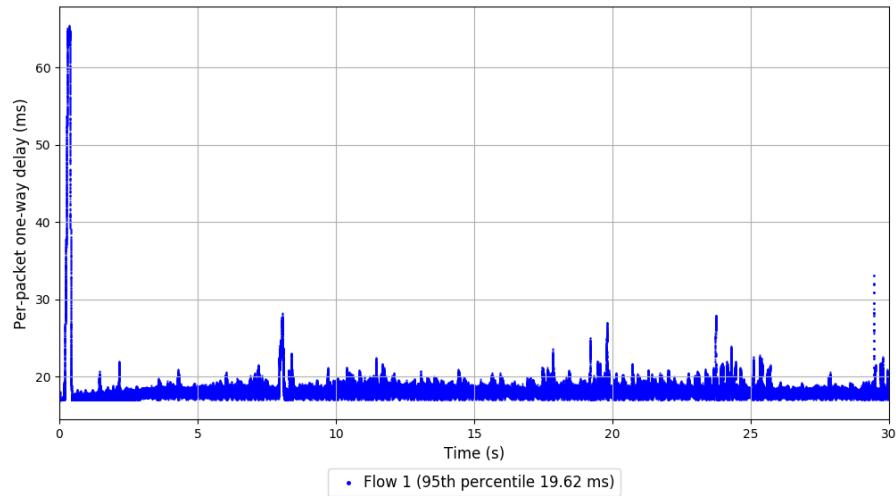
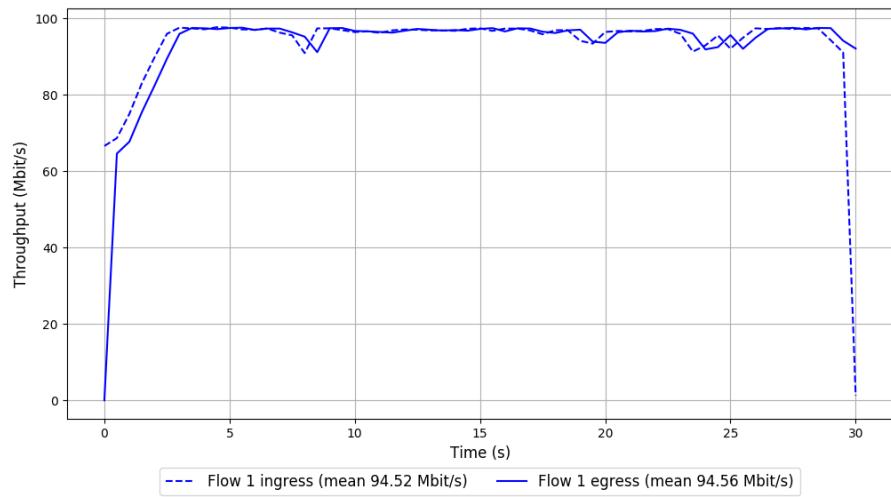


Run 2: Statistics of TCP Vegas

```
Start at: 2019-06-27 13:45:21
End at: 2019-06-27 13:45:52
Local clock offset: -0.813 ms
Remote clock offset: -3.983 ms

# Below is generated by plot.py at 2019-06-27 15:46:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.56 Mbit/s
95th percentile per-packet one-way delay: 19.621 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 94.56 Mbit/s
95th percentile per-packet one-way delay: 19.621 ms
Loss rate: 0.07%
```

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

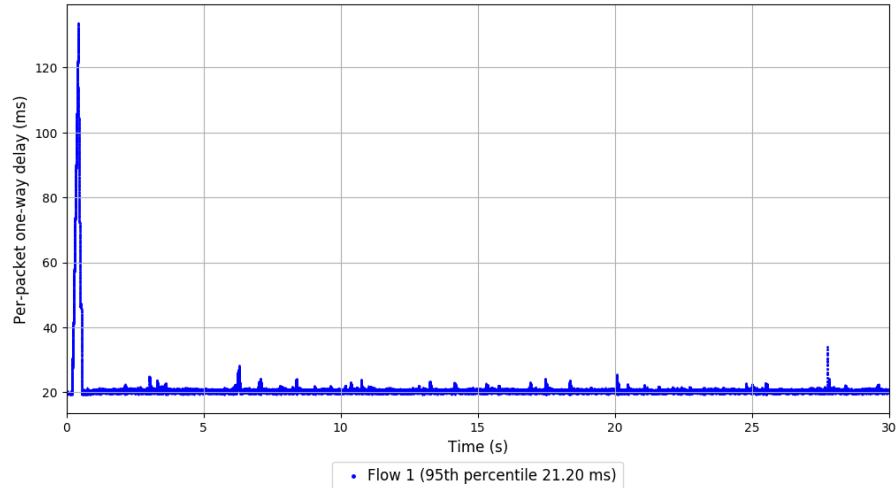
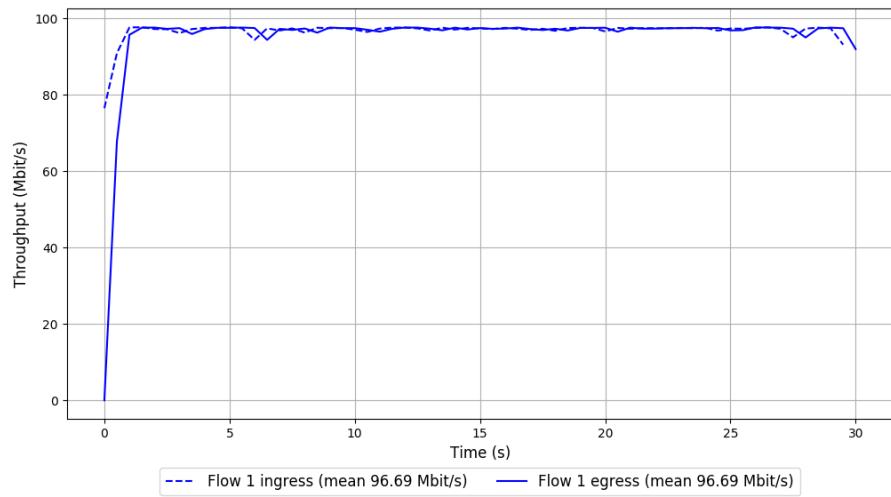


Run 3: Statistics of TCP Vegas

```
Start at: 2019-06-27 14:13:02
End at: 2019-06-27 14:13:32
Local clock offset: 0.566 ms
Remote clock offset: -5.599 ms

# Below is generated by plot.py at 2019-06-27 15:46:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.69 Mbit/s
95th percentile per-packet one-way delay: 21.200 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.69 Mbit/s
95th percentile per-packet one-way delay: 21.200 ms
Loss rate: 0.09%
```

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

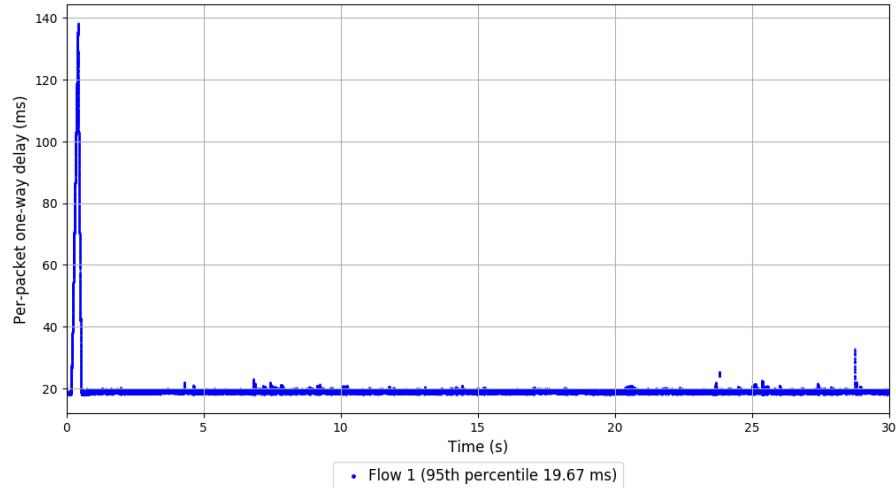
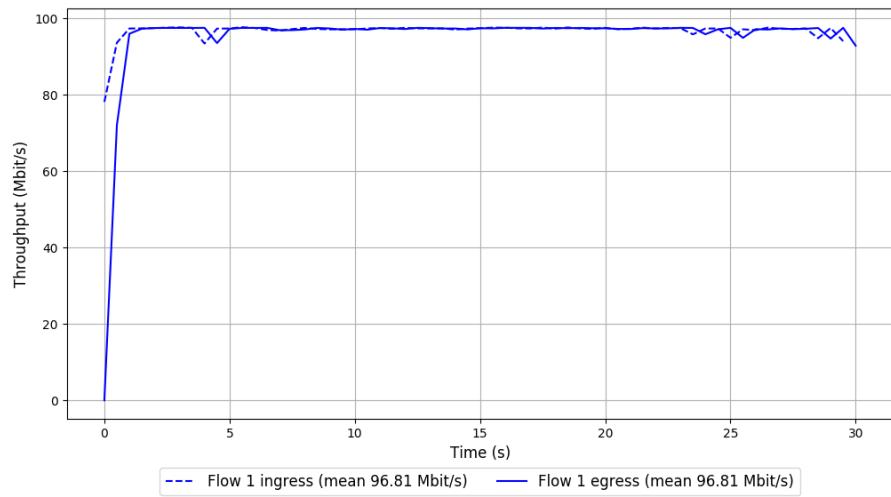


Run 4: Statistics of TCP Vegas

```
Start at: 2019-06-27 14:41:07
End at: 2019-06-27 14:41:37
Local clock offset: -0.566 ms
Remote clock offset: -5.698 ms

# Below is generated by plot.py at 2019-06-27 15:46:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.81 Mbit/s
95th percentile per-packet one-way delay: 19.670 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.81 Mbit/s
95th percentile per-packet one-way delay: 19.670 ms
Loss rate: 0.09%
```

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

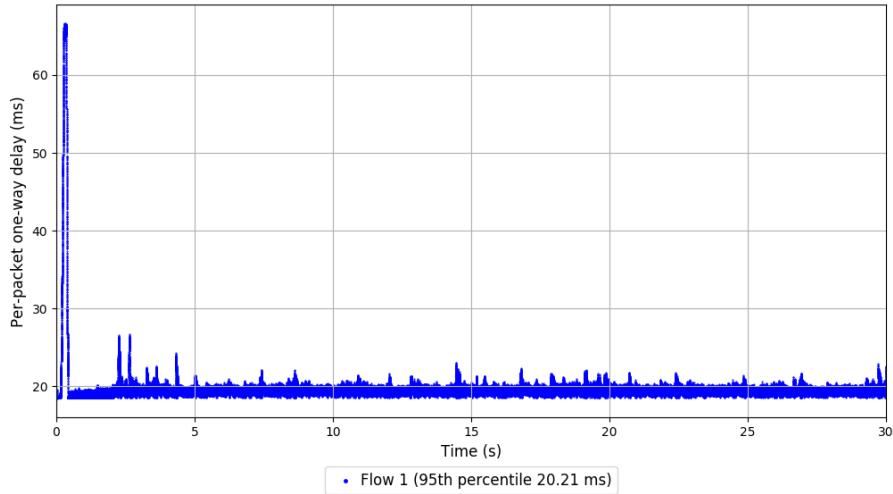
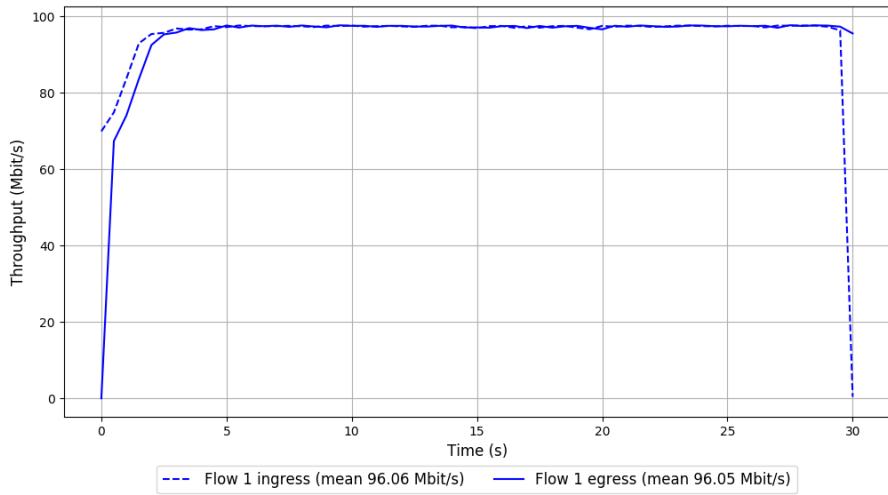


Run 5: Statistics of TCP Vegas

```
Start at: 2019-06-27 15:09:15
End at: 2019-06-27 15:09:45
Local clock offset: -1.137 ms
Remote clock offset: -7.097 ms

# Below is generated by plot.py at 2019-06-27 15:46:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.05 Mbit/s
95th percentile per-packet one-way delay: 20.206 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.05 Mbit/s
95th percentile per-packet one-way delay: 20.206 ms
Loss rate: 0.09%
```

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

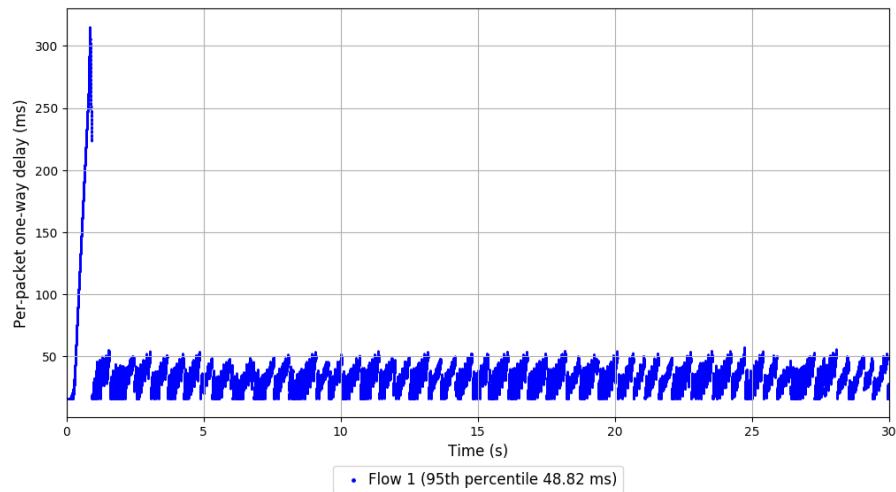
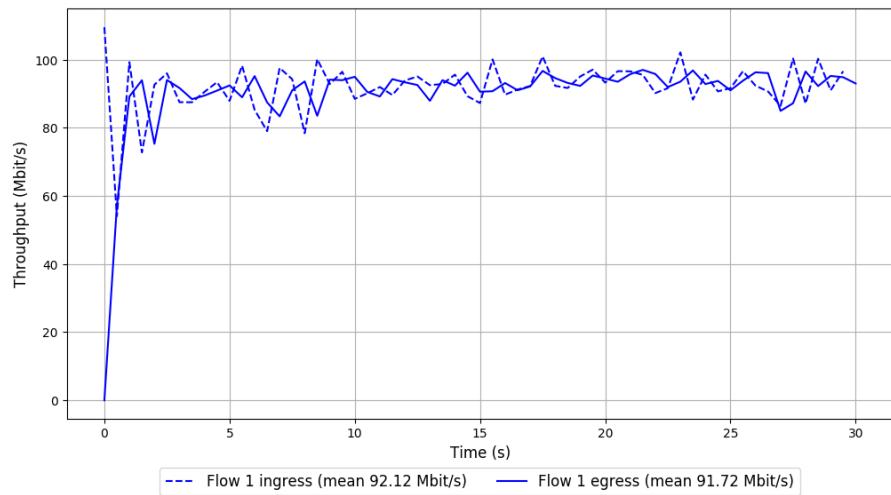


Run 1: Statistics of Verus

```
Start at: 2019-06-27 13:26:26
End at: 2019-06-27 13:26:56
Local clock offset: -1.762 ms
Remote clock offset: -3.343 ms

# Below is generated by plot.py at 2019-06-27 15:46:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.72 Mbit/s
95th percentile per-packet one-way delay: 48.816 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 91.72 Mbit/s
95th percentile per-packet one-way delay: 48.816 ms
Loss rate: 0.52%
```

Run 1: Report of Verus — Data Link

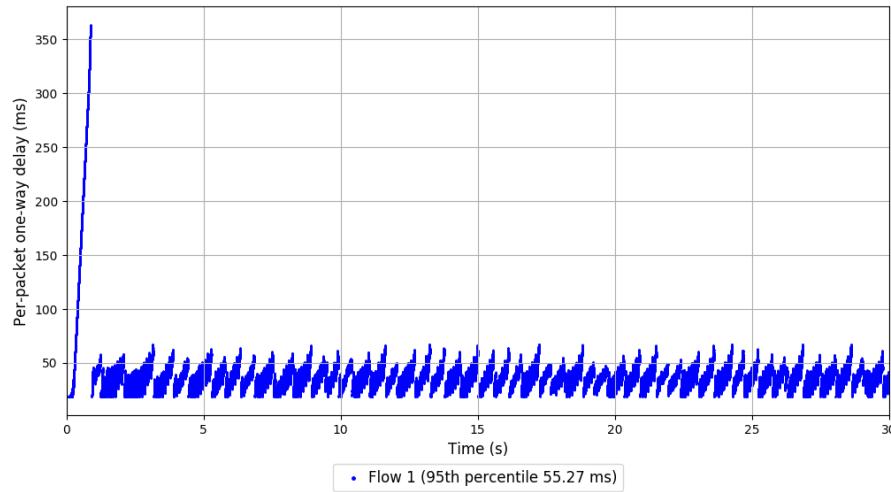
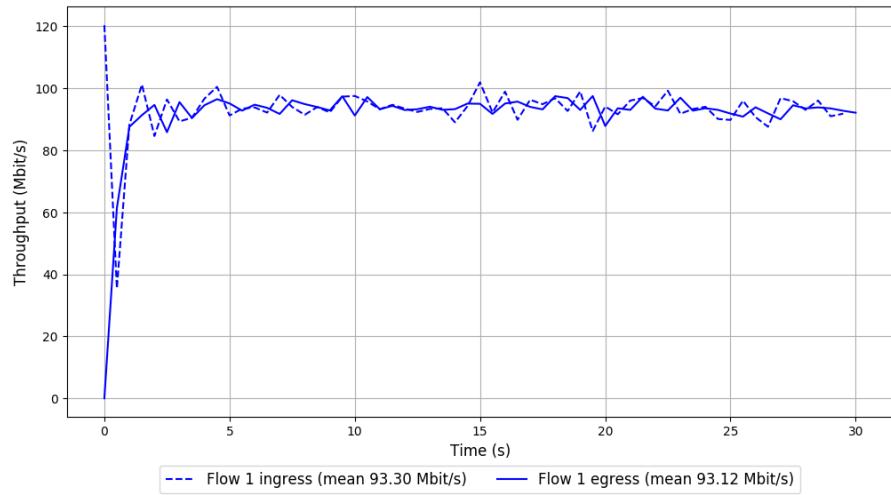


Run 2: Statistics of Verus

```
Start at: 2019-06-27 13:54:07
End at: 2019-06-27 13:54:37
Local clock offset: -0.193 ms
Remote clock offset: -4.927 ms

# Below is generated by plot.py at 2019-06-27 15:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.12 Mbit/s
95th percentile per-packet one-way delay: 55.275 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 93.12 Mbit/s
95th percentile per-packet one-way delay: 55.275 ms
Loss rate: 0.27%
```

## Run 2: Report of Verus — Data Link

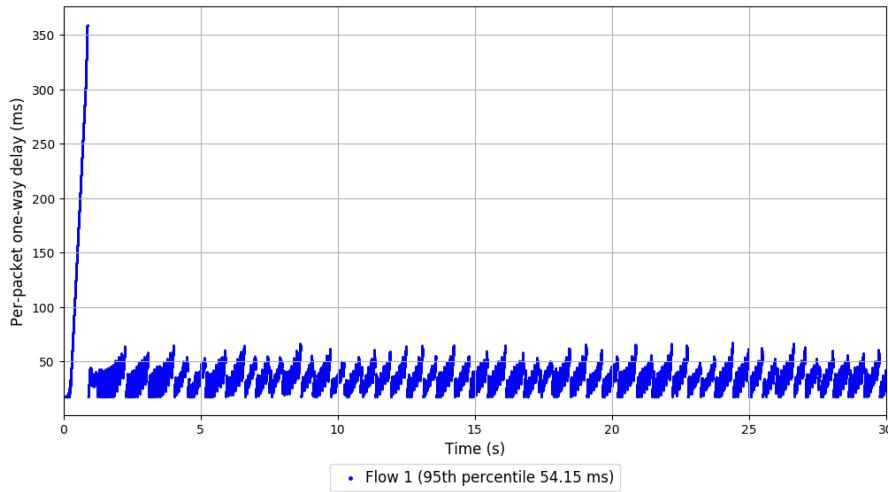
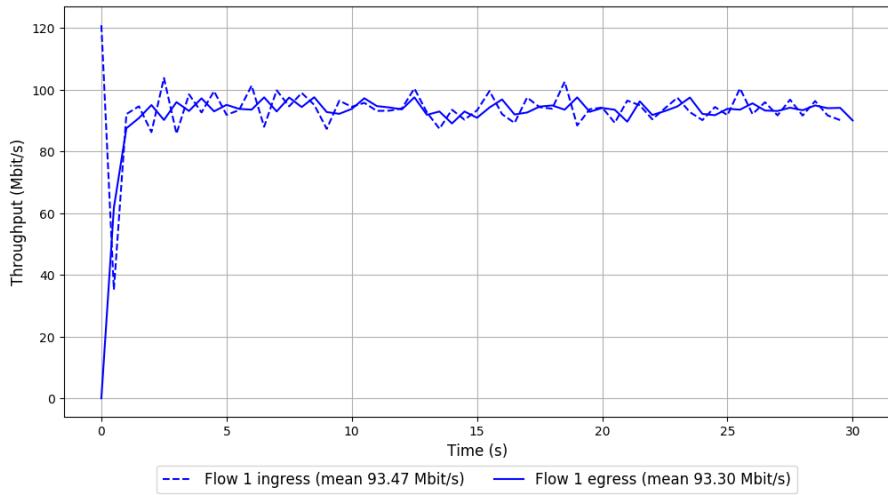


Run 3: Statistics of Verus

```
Start at: 2019-06-27 14:21:39
End at: 2019-06-27 14:22:09
Local clock offset: -0.543 ms
Remote clock offset: -5.153 ms

# Below is generated by plot.py at 2019-06-27 15:47:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.30 Mbit/s
95th percentile per-packet one-way delay: 54.147 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 93.30 Mbit/s
95th percentile per-packet one-way delay: 54.147 ms
Loss rate: 0.25%
```

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

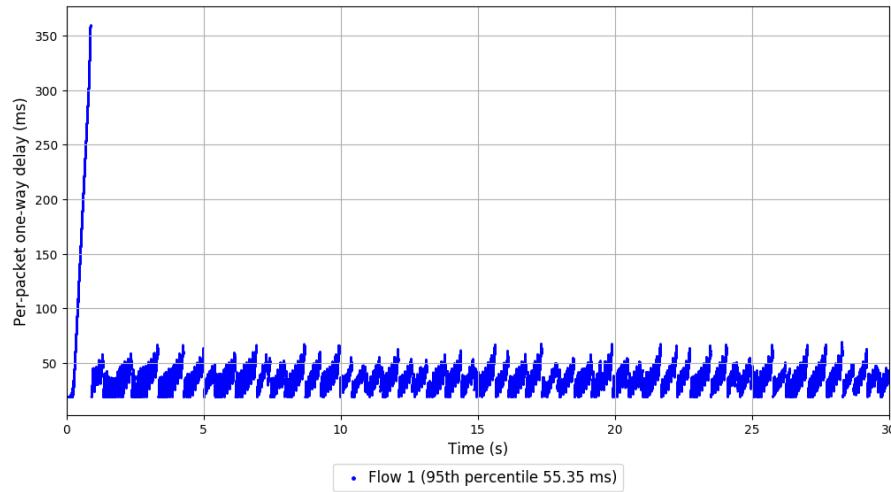
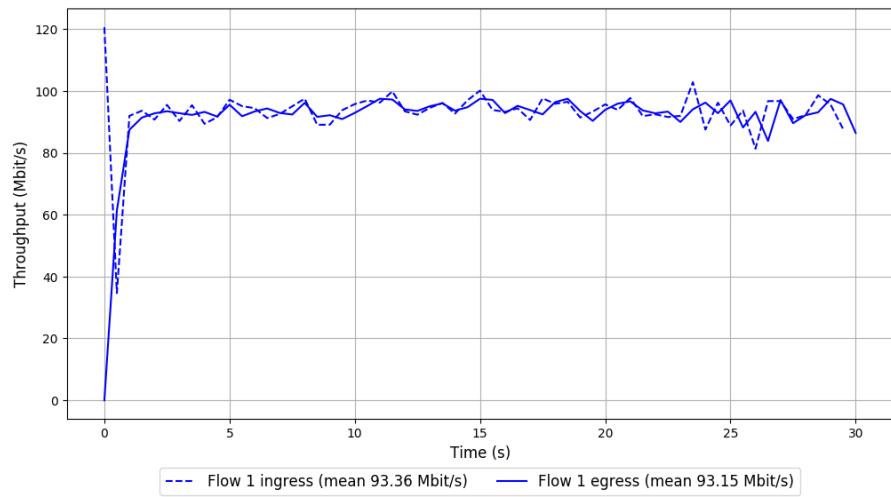


Run 4: Statistics of Verus

```
Start at: 2019-06-27 14:49:37
End at: 2019-06-27 14:50:07
Local clock offset: -5.971 ms
Remote clock offset: -12.26 ms

# Below is generated by plot.py at 2019-06-27 15:47:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 55.350 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 55.350 ms
Loss rate: 0.31%
```

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

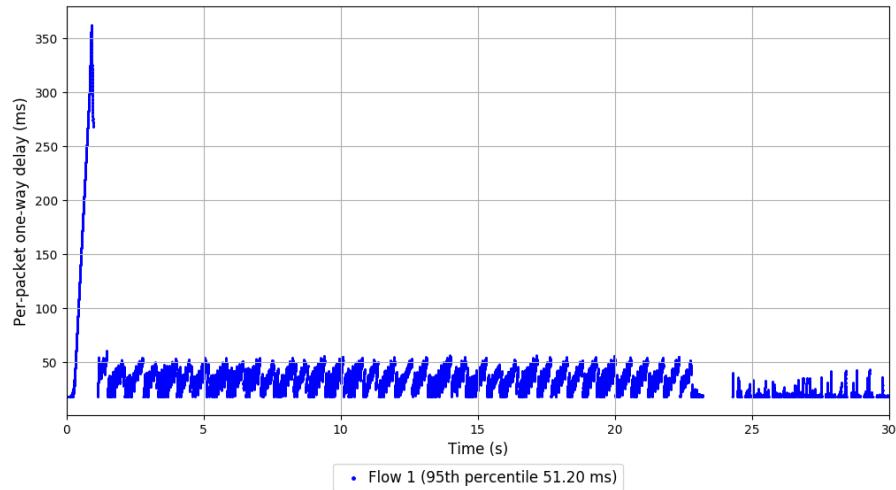
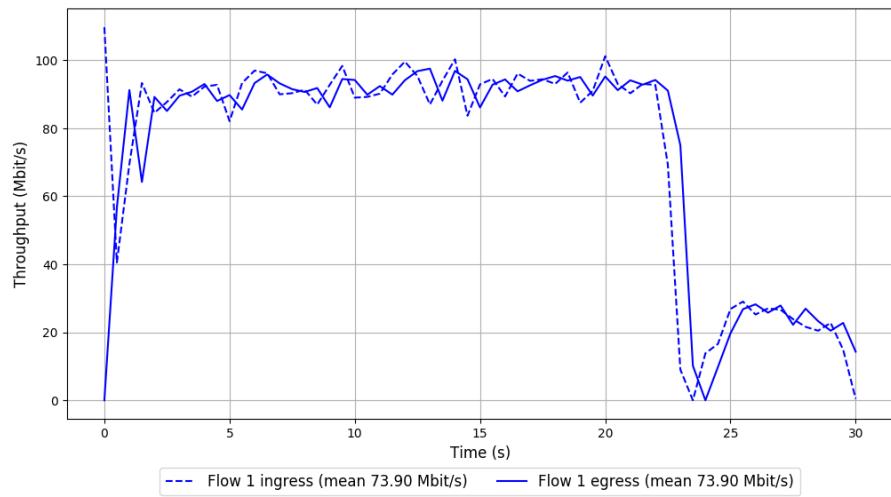


Run 5: Statistics of Verus

```
Start at: 2019-06-27 15:17:51
End at: 2019-06-27 15:18:21
Local clock offset: -0.6 ms
Remote clock offset: -6.487 ms

# Below is generated by plot.py at 2019-06-27 15:47:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.90 Mbit/s
95th percentile per-packet one-way delay: 51.200 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 73.90 Mbit/s
95th percentile per-packet one-way delay: 51.200 ms
Loss rate: 0.20%
```

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

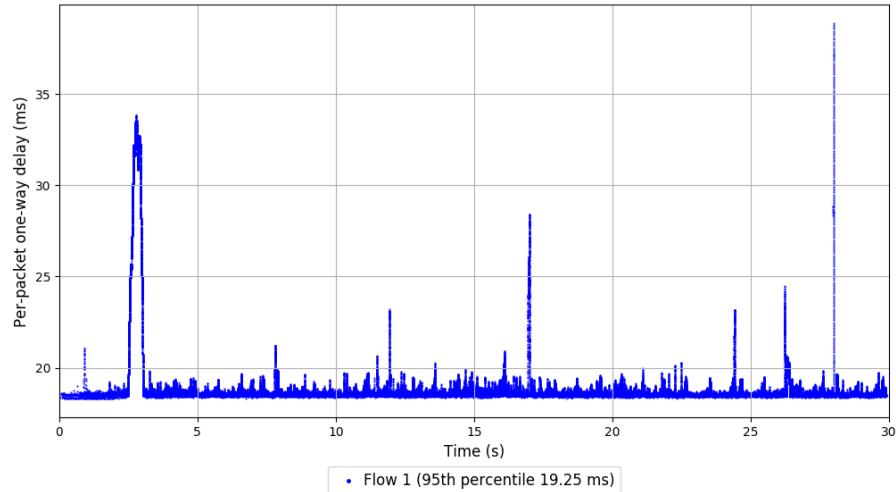
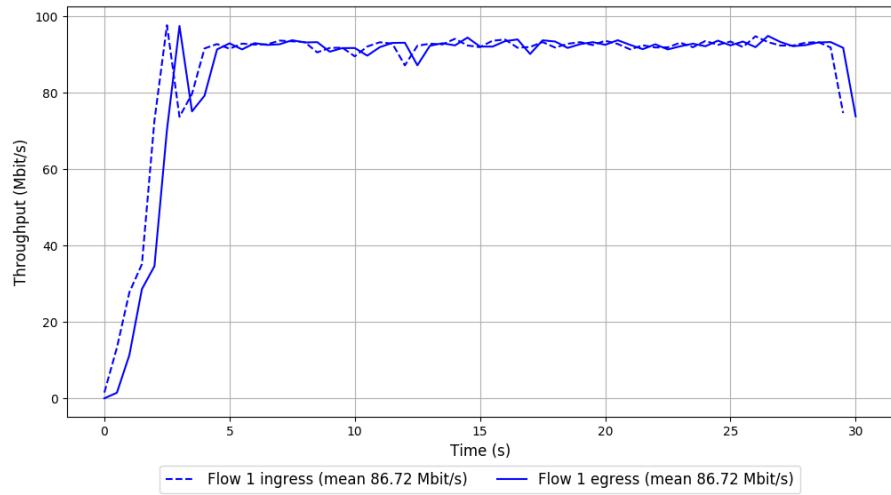


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-06-27 13:32:30
End at: 2019-06-27 13:33:00
Local clock offset: -1.73 ms
Remote clock offset: -6.069 ms

# Below is generated by plot.py at 2019-06-27 15:47:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.72 Mbit/s
95th percentile per-packet one-way delay: 19.248 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 86.72 Mbit/s
95th percentile per-packet one-way delay: 19.248 ms
Loss rate: 0.09%
```

Run 1: Report of PCC-Vivace — Data Link

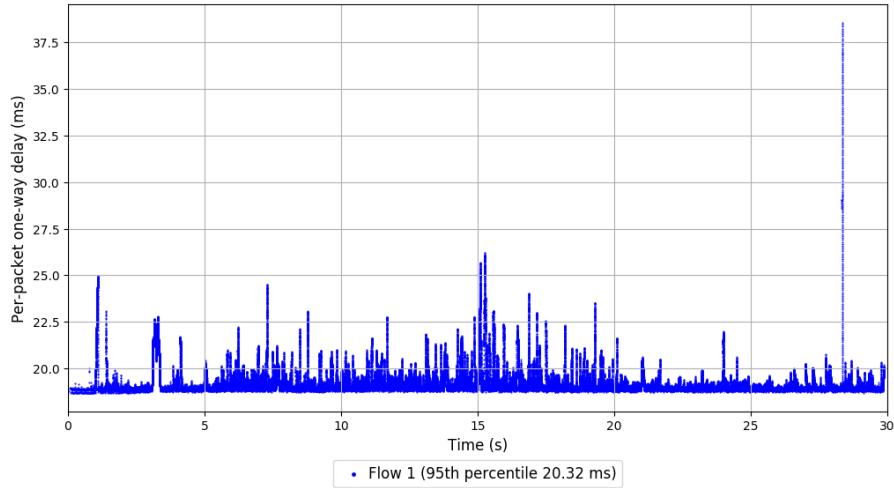
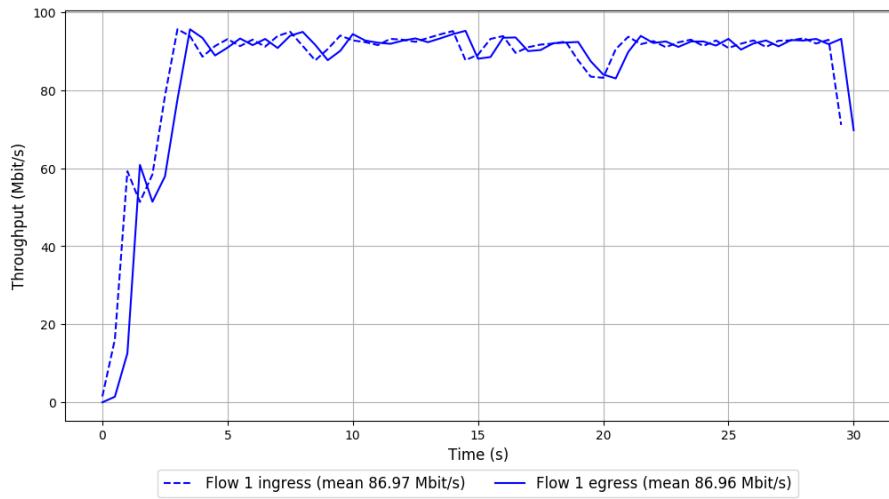


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-06-27 14:00:18
End at: 2019-06-27 14:00:48
Local clock offset: -0.297 ms
Remote clock offset: -5.793 ms

# Below is generated by plot.py at 2019-06-27 15:47:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 20.318 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 20.318 ms
Loss rate: 0.09%
```

Run 2: Report of PCC-Vivace — Data Link

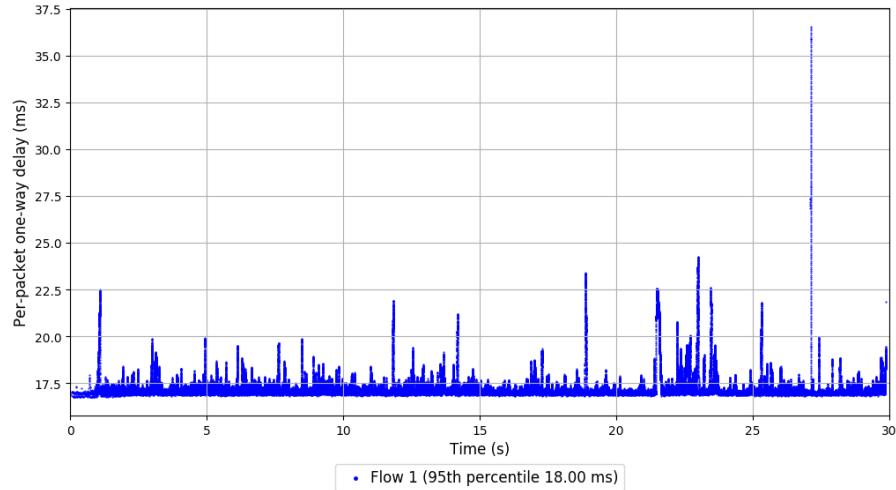
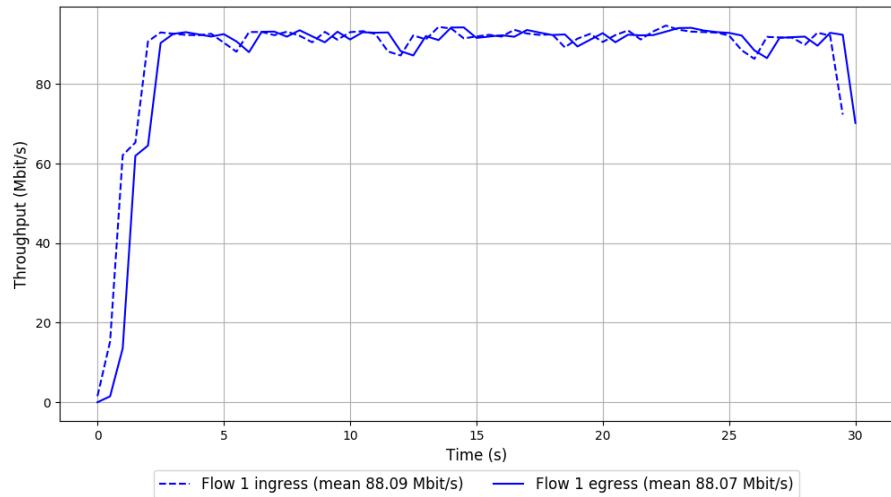


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-06-27 14:27:55
End at: 2019-06-27 14:28:25
Local clock offset: -0.732 ms
Remote clock offset: -4.511 ms

# Below is generated by plot.py at 2019-06-27 15:47:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.07 Mbit/s
95th percentile per-packet one-way delay: 18.004 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 88.07 Mbit/s
95th percentile per-packet one-way delay: 18.004 ms
Loss rate: 0.09%
```

Run 3: Report of PCC-Vivace — Data Link

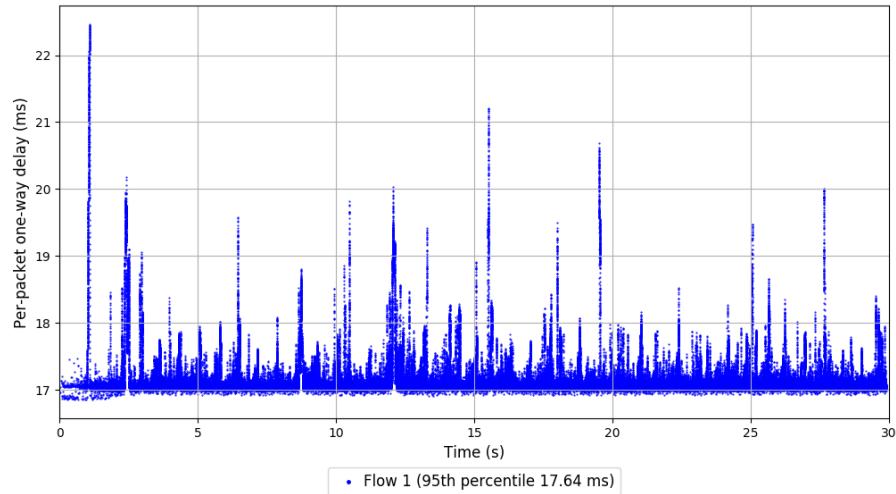
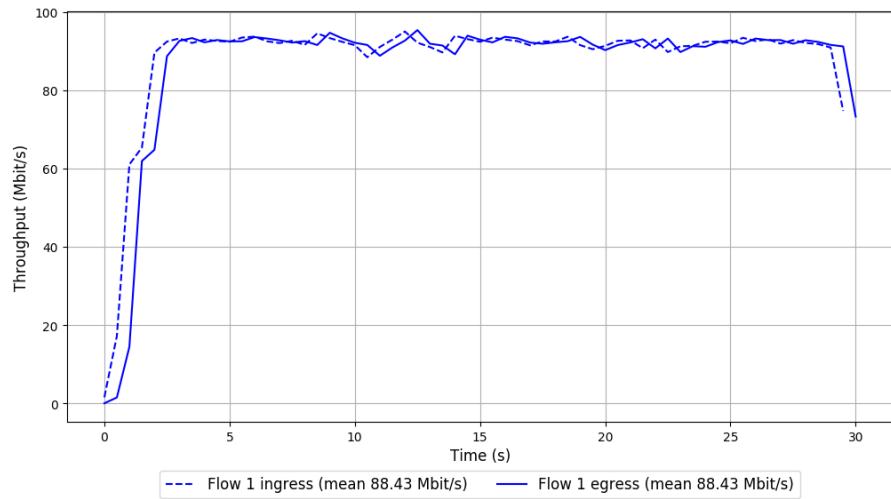


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-06-27 14:55:41
End at: 2019-06-27 14:56:11
Local clock offset: -0.726 ms
Remote clock offset: -4.964 ms

# Below is generated by plot.py at 2019-06-27 15:47:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.43 Mbit/s
95th percentile per-packet one-way delay: 17.642 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 88.43 Mbit/s
95th percentile per-packet one-way delay: 17.642 ms
Loss rate: 0.08%
```

Run 4: Report of PCC-Vivace — Data Link

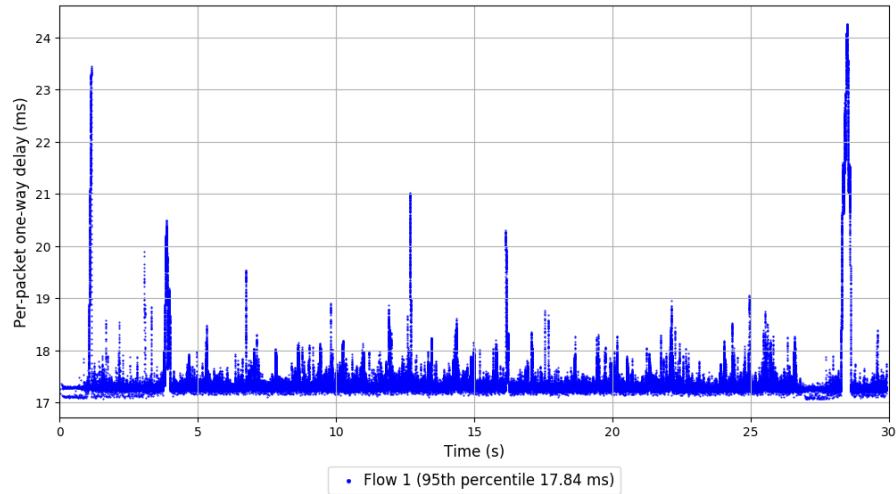
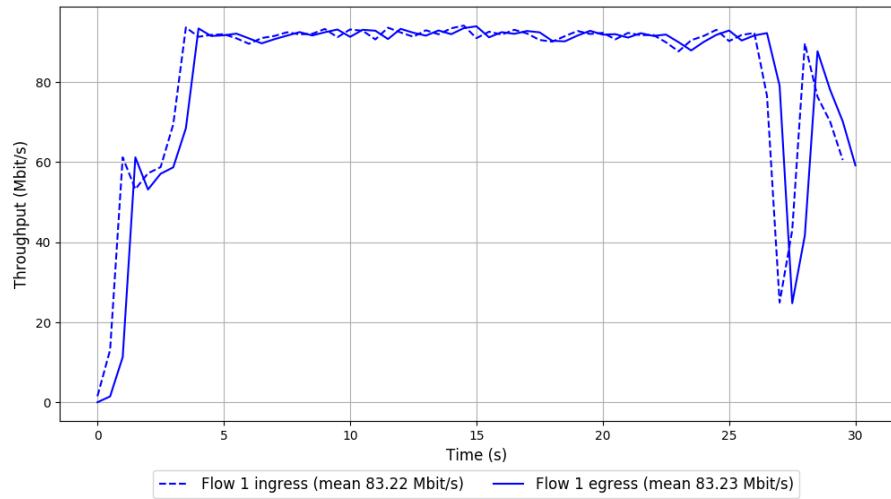


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-06-27 15:25:47
End at: 2019-06-27 15:26:18
Local clock offset: 0.037 ms
Remote clock offset: -5.421 ms

# Below is generated by plot.py at 2019-06-27 15:47:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.23 Mbit/s
95th percentile per-packet one-way delay: 17.844 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 83.23 Mbit/s
95th percentile per-packet one-way delay: 17.844 ms
Loss rate: 0.08%
```

Run 5: Report of PCC-Vivace — Data Link

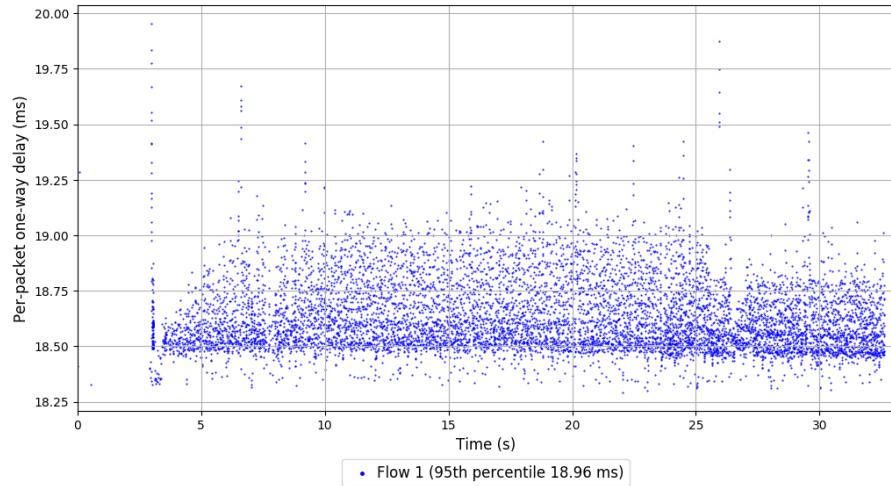
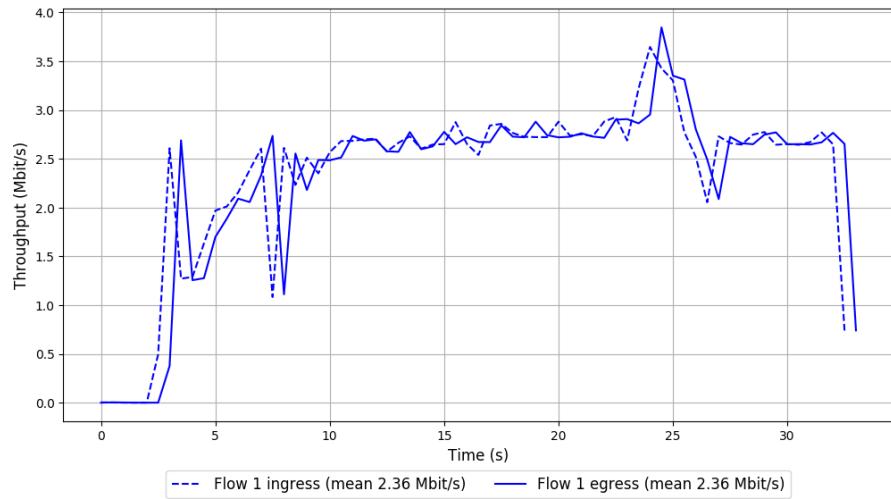


```
Run 1: Statistics of WebRTC media

Start at: 2019-06-27 13:28:57
End at: 2019-06-27 13:29:27
Local clock offset: 0.274 ms
Remote clock offset: -3.904 ms

# Below is generated by plot.py at 2019-06-27 15:47:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 18.956 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 18.956 ms
Loss rate: 0.07%
```

### Run 1: Report of WebRTC media — Data Link

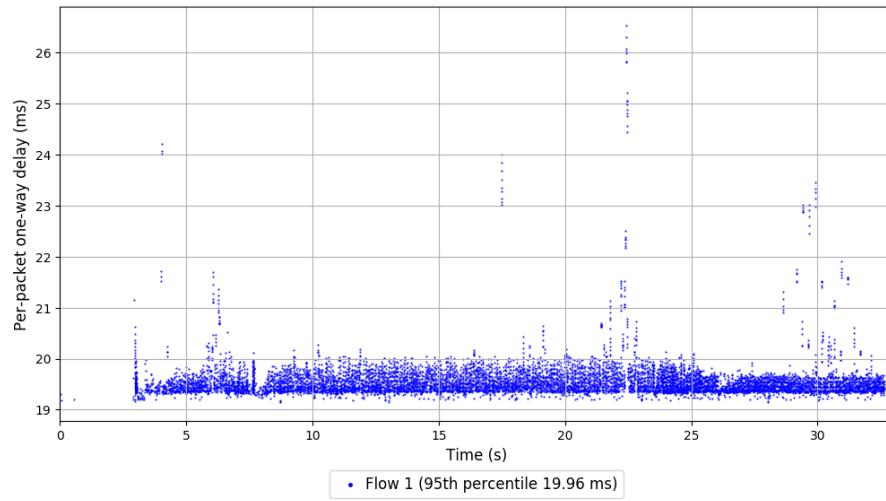
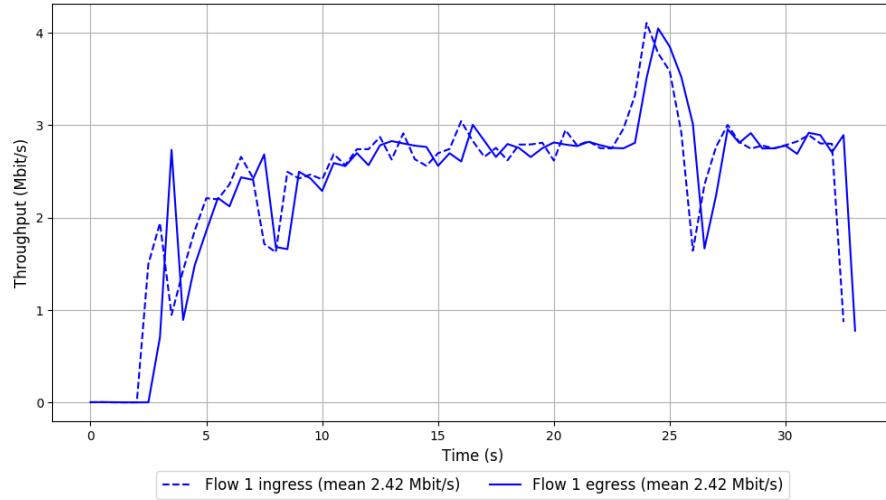


Run 2: Statistics of WebRTC media

```
Start at: 2019-06-27 13:56:45
End at: 2019-06-27 13:57:15
Local clock offset: 0.037 ms
Remote clock offset: -5.748 ms

# Below is generated by plot.py at 2019-06-27 15:47:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 19.957 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 19.957 ms
Loss rate: 0.12%
```

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

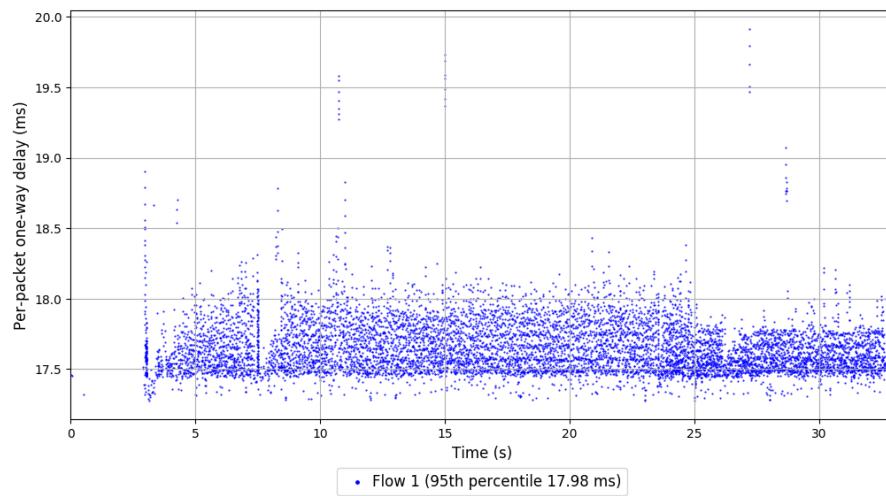
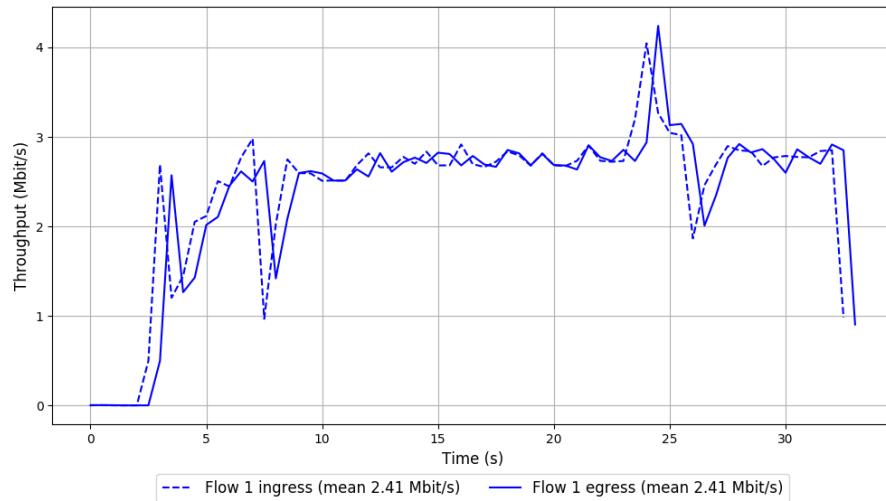


Run 3: Statistics of WebRTC media

```
Start at: 2019-06-27 14:24:14
End at: 2019-06-27 14:24:44
Local clock offset: -1.284 ms
Remote clock offset: -5.605 ms

# Below is generated by plot.py at 2019-06-27 15:47:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 17.985 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 17.985 ms
Loss rate: 0.11%
```

### Run 3: Report of WebRTC media — Data Link

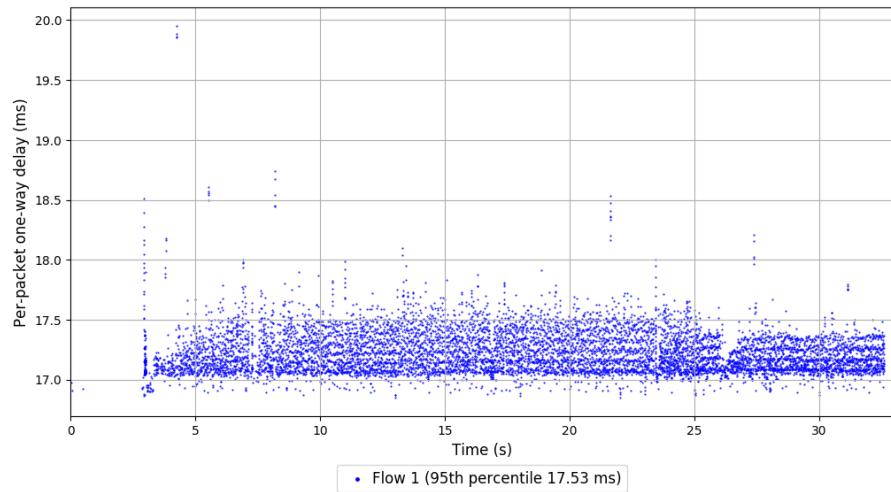
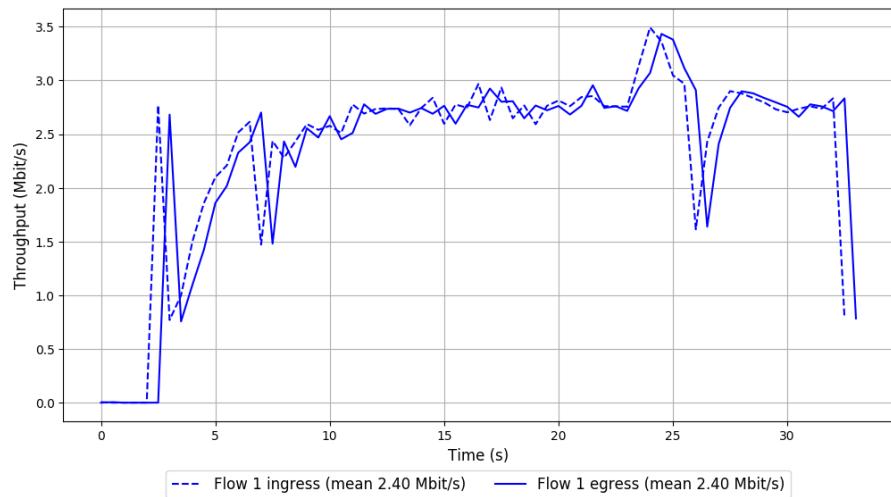


Run 4: Statistics of WebRTC media

```
Start at: 2019-06-27 14:52:09
End at: 2019-06-27 14:52:39
Local clock offset: -0.22 ms
Remote clock offset: -4.601 ms

# Below is generated by plot.py at 2019-06-27 15:47:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 17.527 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 17.527 ms
Loss rate: 0.06%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-06-27 15:22:21
End at: 2019-06-27 15:22:51
Local clock offset: -0.885 ms
Remote clock offset: -5.852 ms

# Below is generated by plot.py at 2019-06-27 15:47:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 17.528 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 17.528 ms
Loss rate: 0.13%
```

Run 5: Report of WebRTC media — Data Link

