

## Pantheon Report

Generated at 2018-06-19 05:03:04 (UTC).

Data path: Brazil Ethernet (*remote*) → AWS Brazil 1 Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

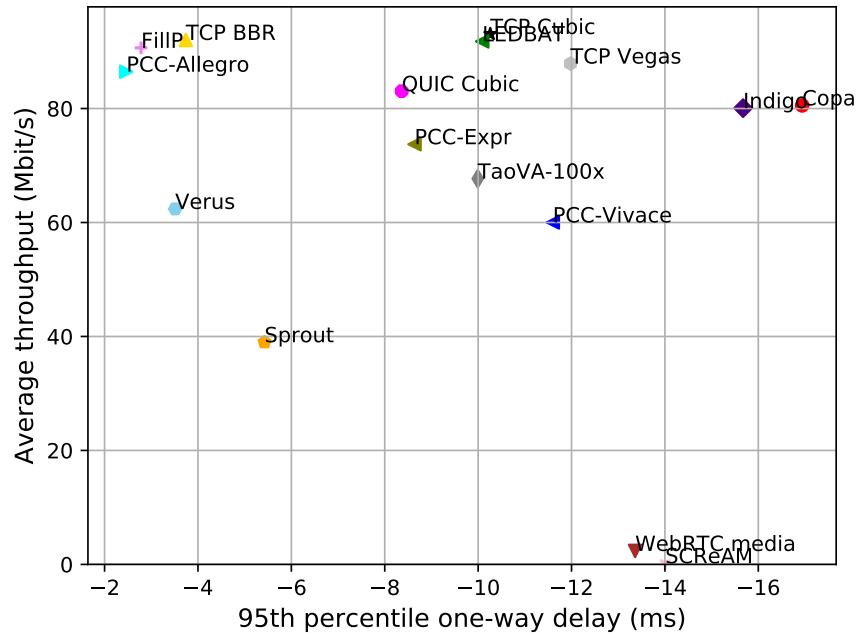
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

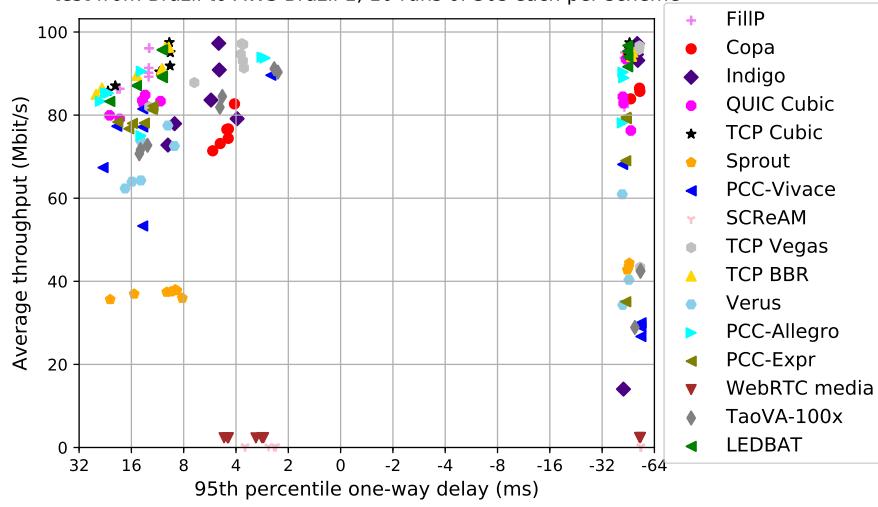
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Brazil to AWS Brazil 1, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from Brazil to AWS Brazil 1, 10 runs of 30s each per scheme



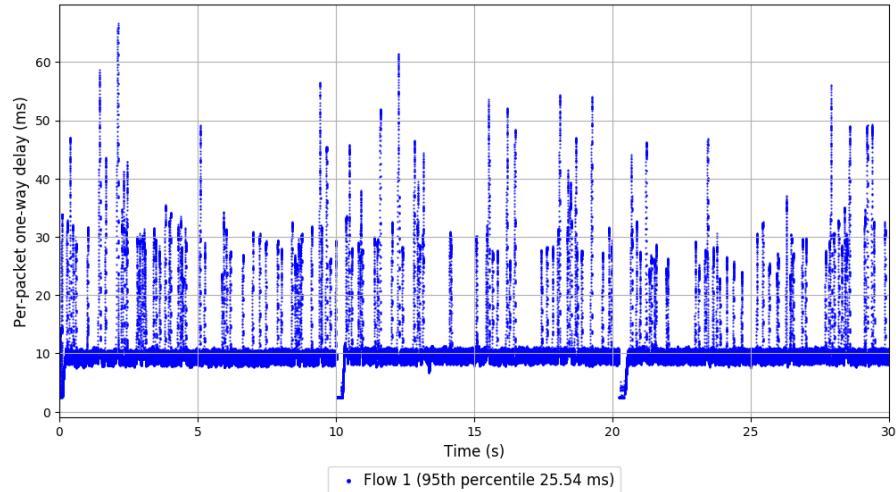
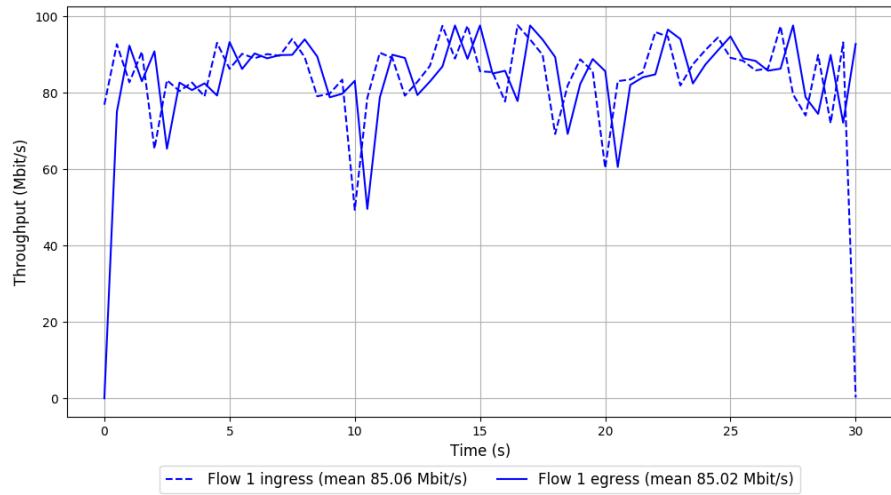
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	92.03	-3.74	0.11
Copa	10	80.55	-16.94	0.02
TCP Cubic	10	93.07	-10.26	0.06
FillP	10	90.64	-2.78	1.26
Indigo	10	80.07	-15.67	0.49
LEDBAT	10	91.79	-10.09	0.08
PCC-Allegro	10	86.46	-2.47	0.96
PCC-Expr	10	73.73	-8.64	0.09
QUIC Cubic	10	83.05	-8.36	0.76
SCReAM	10	0.21	-14.01	0.08
Sprout	10	38.99	-5.42	0.13
TaoVA-100x	10	67.69	-9.99	0.06
TCP Vegas	10	87.88	-11.98	0.08
Verus	10	62.38	-3.51	0.19
PCC-Vivace	10	60.01	-11.60	0.28
WebRTC media	10	2.36	-13.36	0.01

Run 1: Statistics of TCP BBR

```
Start at: 2018-06-19 01:45:11
End at: 2018-06-19 01:45:41
Local clock offset: -1.875 ms
Remote clock offset: -1.549 ms

# Below is generated by plot.py at 2018-06-19 04:43:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.02 Mbit/s
95th percentile per-packet one-way delay: 25.537 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 85.02 Mbit/s
95th percentile per-packet one-way delay: 25.537 ms
Loss rate: 0.07%
```

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

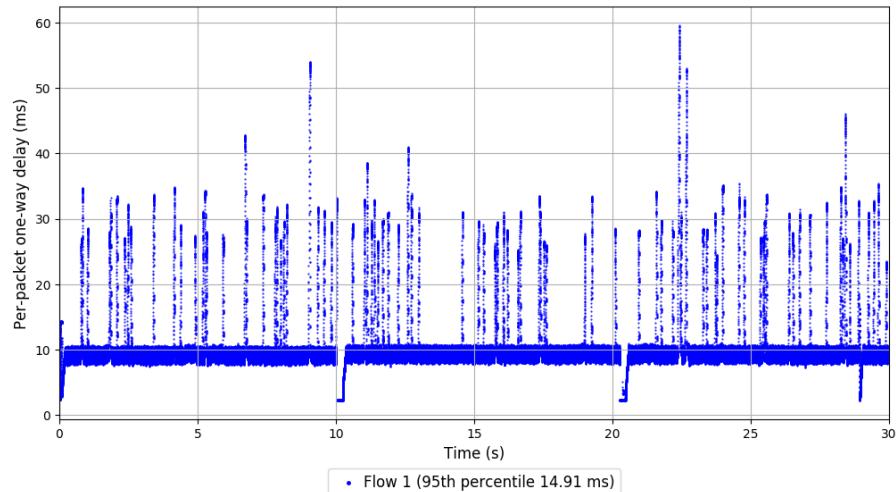
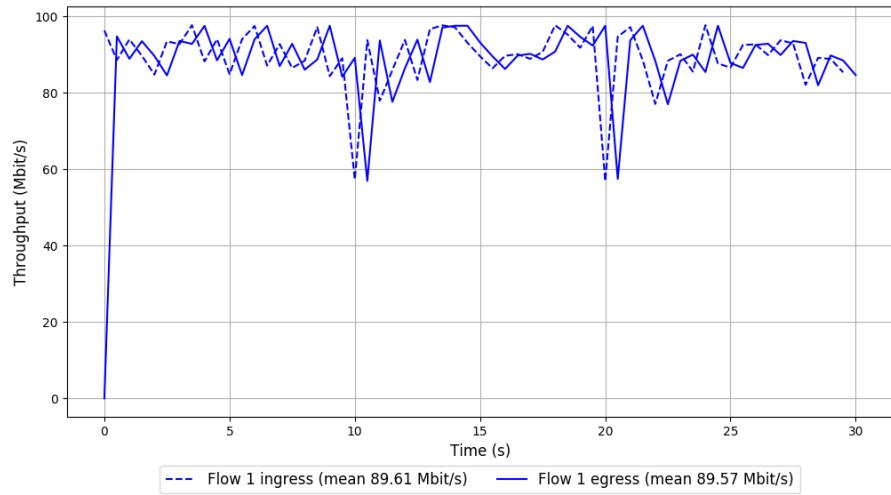


Run 2: Statistics of TCP BBR

```
Start at: 2018-06-19 02:03:02
End at: 2018-06-19 02:03:32
Local clock offset: -1.84 ms
Remote clock offset: -5.384 ms

# Below is generated by plot.py at 2018-06-19 04:43:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.57 Mbit/s
95th percentile per-packet one-way delay: 14.906 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 89.57 Mbit/s
95th percentile per-packet one-way delay: 14.906 ms
Loss rate: 0.06%
```

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

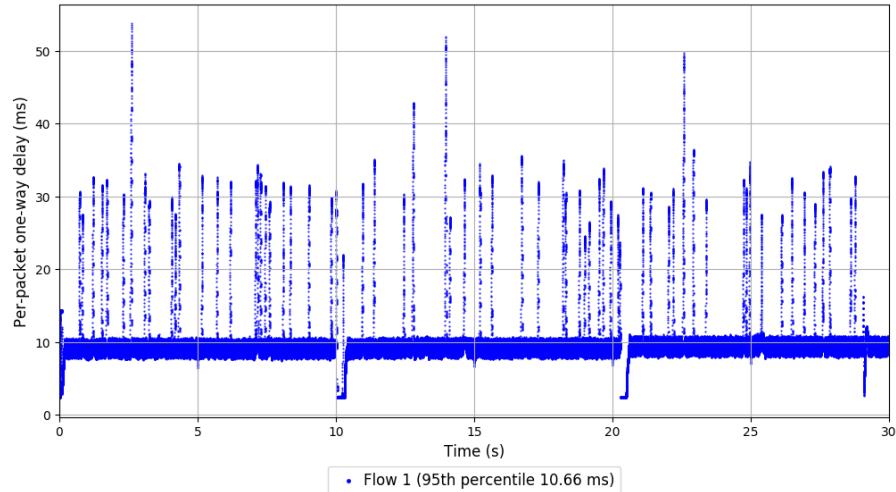
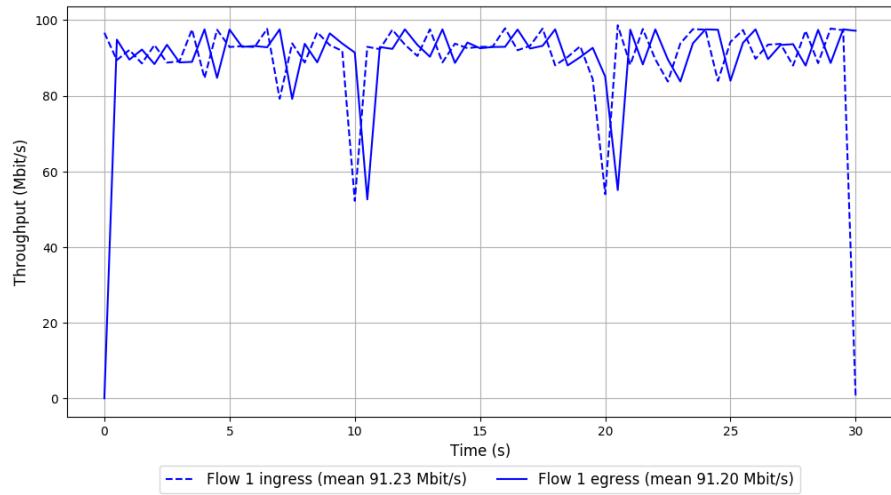


Run 3: Statistics of TCP BBR

```
Start at: 2018-06-19 02:20:53
End at: 2018-06-19 02:21:23
Local clock offset: -2.596 ms
Remote clock offset: -8.915 ms

# Below is generated by plot.py at 2018-06-19 04:43:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 10.662 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 10.662 ms
Loss rate: 0.05%
```

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

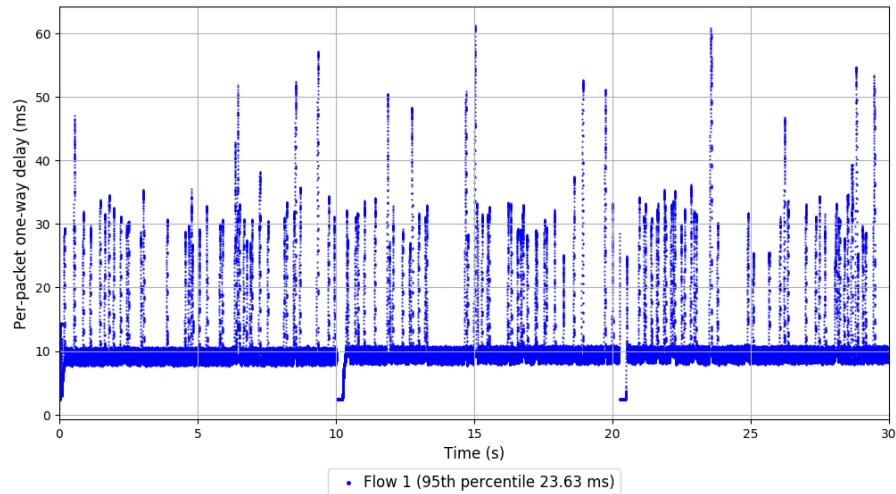
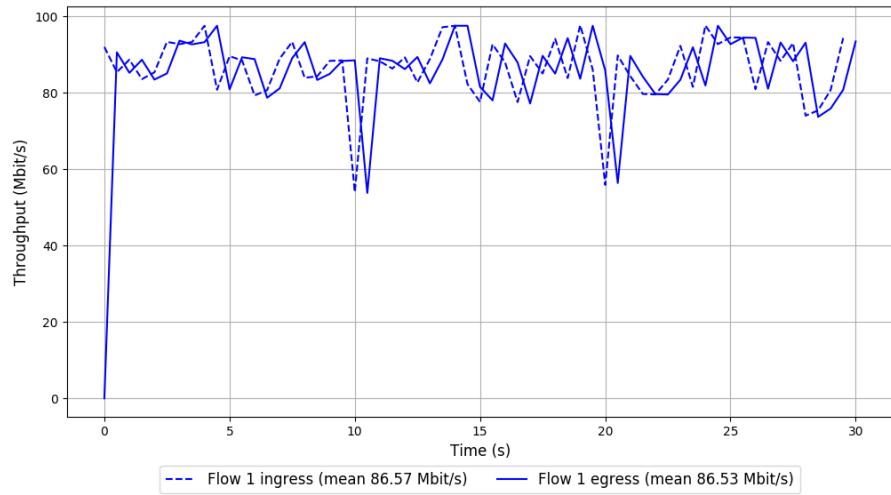


Run 4: Statistics of TCP BBR

```
Start at: 2018-06-19 02:38:45
End at: 2018-06-19 02:39:15
Local clock offset: -2.399 ms
Remote clock offset: -8.056 ms

# Below is generated by plot.py at 2018-06-19 04:43:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.53 Mbit/s
95th percentile per-packet one-way delay: 23.627 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 86.53 Mbit/s
95th percentile per-packet one-way delay: 23.627 ms
Loss rate: 0.06%
```

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

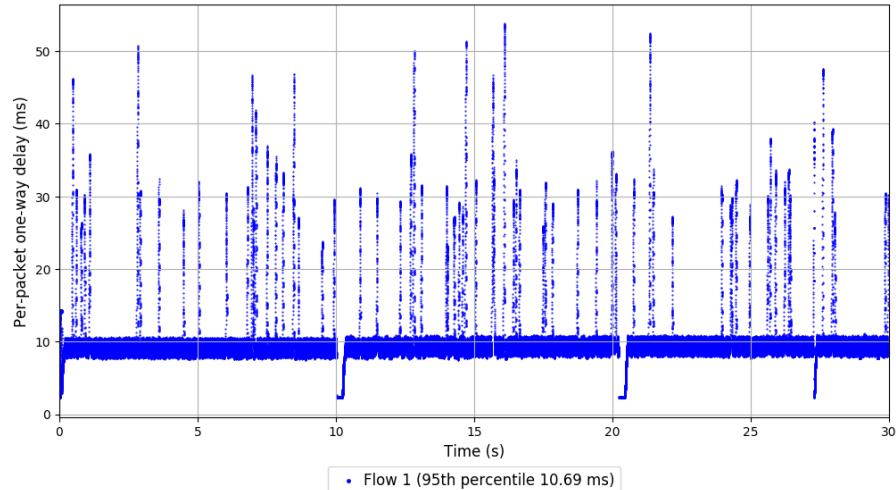
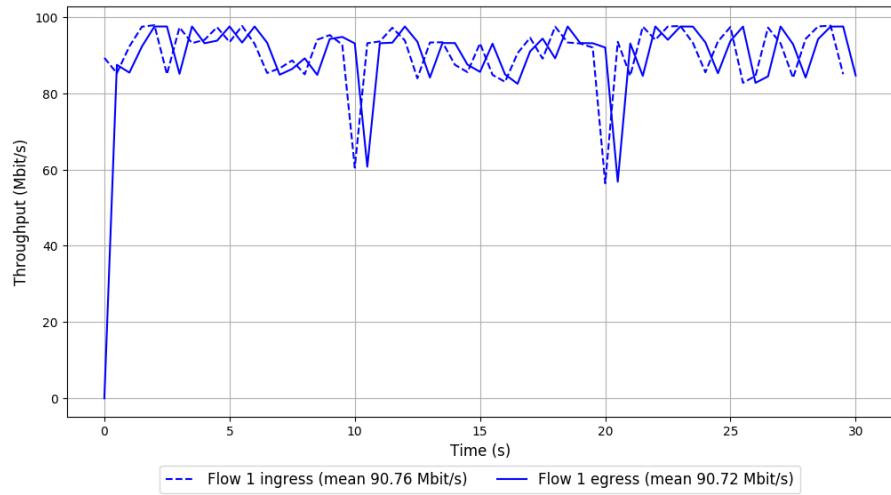


Run 5: Statistics of TCP BBR

```
Start at: 2018-06-19 02:56:35
End at: 2018-06-19 02:57:05
Local clock offset: -1.868 ms
Remote clock offset: -7.885 ms

# Below is generated by plot.py at 2018-06-19 04:43:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.72 Mbit/s
95th percentile per-packet one-way delay: 10.689 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 90.72 Mbit/s
95th percentile per-packet one-way delay: 10.689 ms
Loss rate: 0.05%
```

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

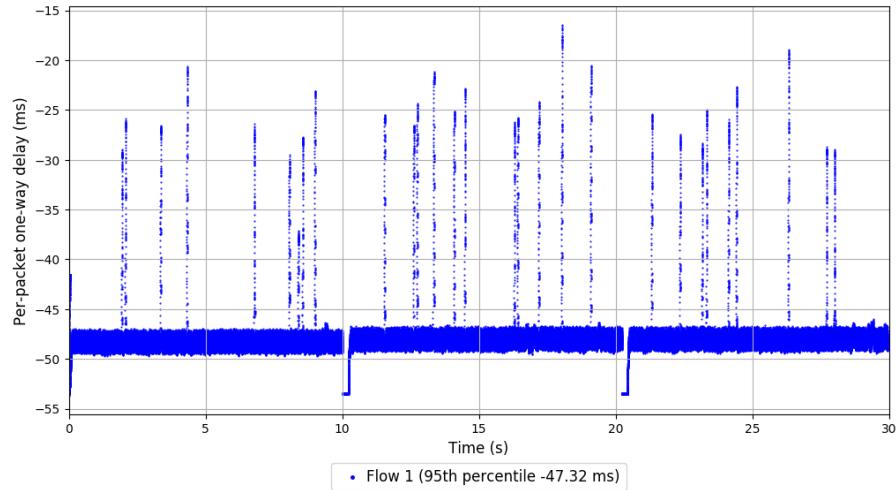
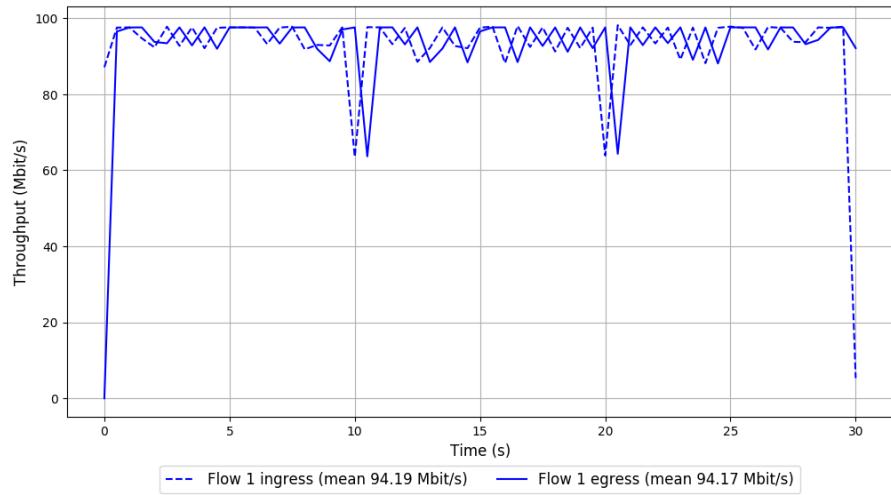


Run 6: Statistics of TCP BBR

```
Start at: 2018-06-19 03:14:28
End at: 2018-06-19 03:14:58
Local clock offset: -2.569 ms
Remote clock offset: 47.056 ms

# Below is generated by plot.py at 2018-06-19 04:43:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: -47.323 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: -47.323 ms
Loss rate: 0.03%
```

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

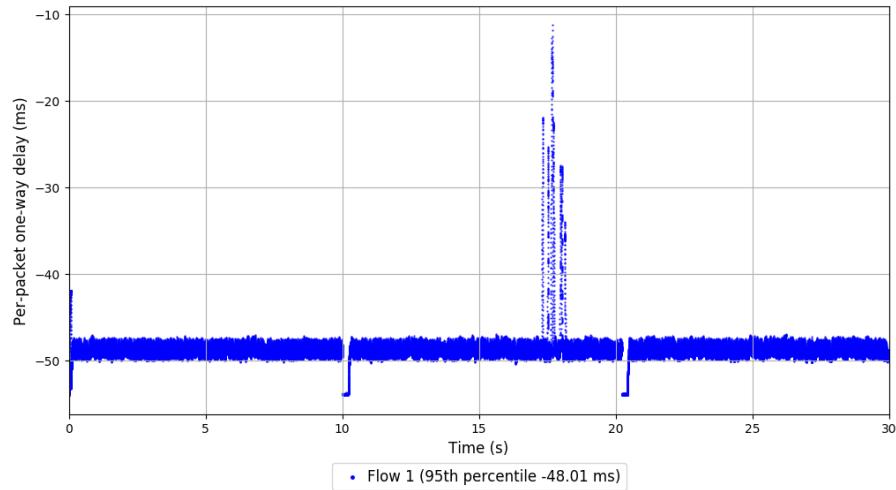
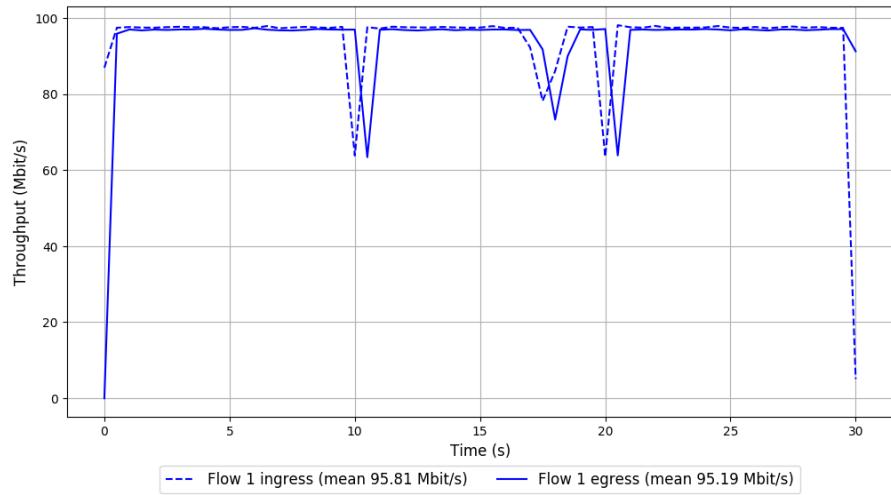


Run 7: Statistics of TCP BBR

```
Start at: 2018-06-19 03:32:12
End at: 2018-06-19 03:32:42
Local clock offset: -2.879 ms
Remote clock offset: 47.506 ms

# Below is generated by plot.py at 2018-06-19 04:43:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: -48.012 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: -48.012 ms
Loss rate: 0.65%
```

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

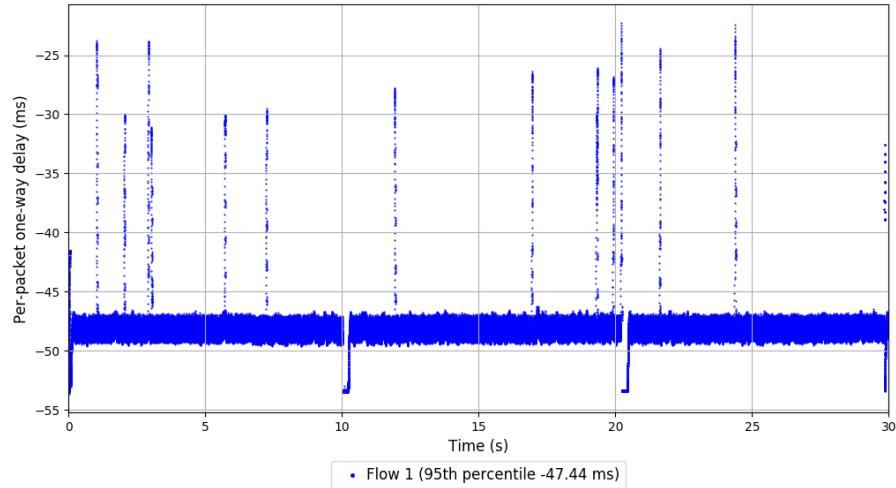
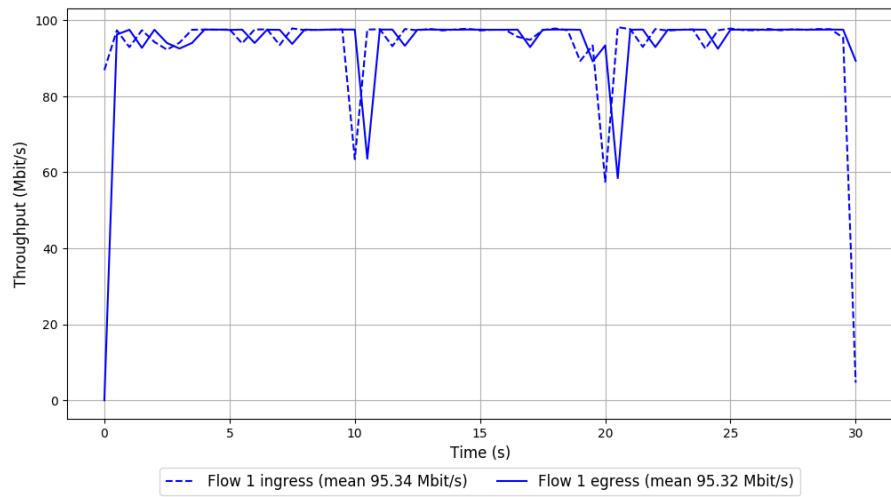


Run 8: Statistics of TCP BBR

```
Start at: 2018-06-19 03:49:59
End at: 2018-06-19 03:50:29
Local clock offset: -2.911 ms
Remote clock offset: 52.211 ms

# Below is generated by plot.py at 2018-06-19 04:43:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: -47.444 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: -47.444 ms
Loss rate: 0.03%
```

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

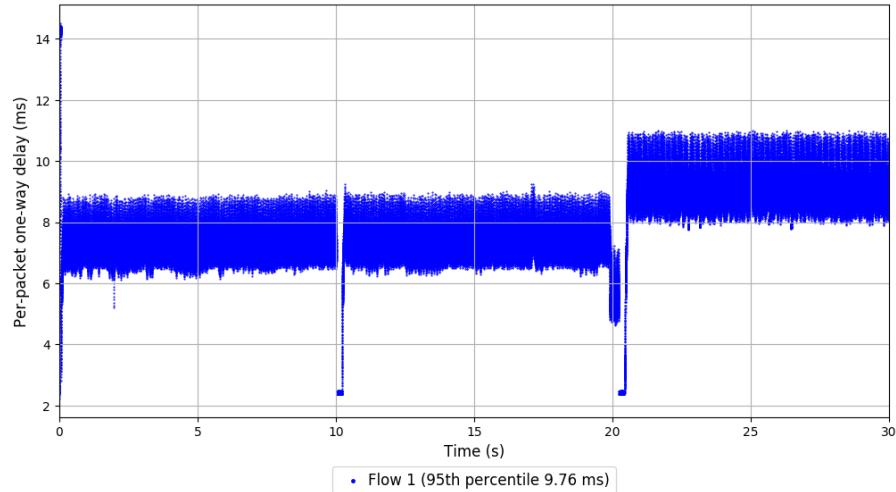
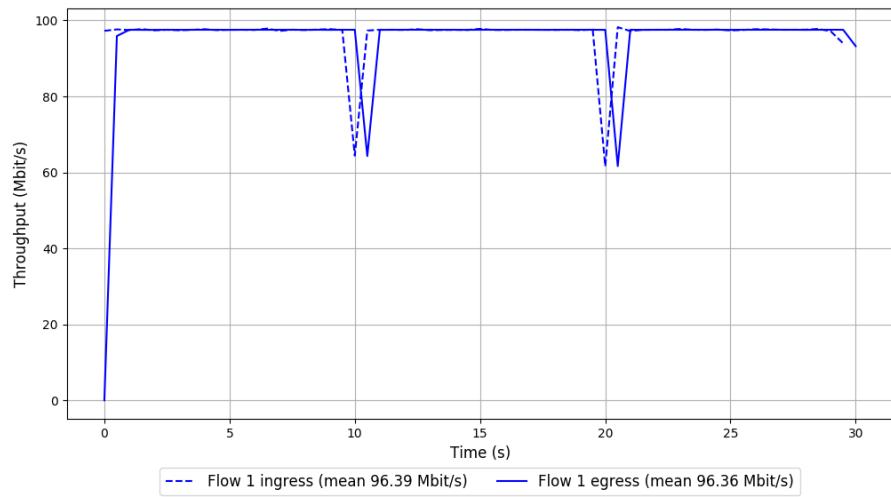


Run 9: Statistics of TCP BBR

```
Start at: 2018-06-19 04:07:49
End at: 2018-06-19 04:08:19
Local clock offset: -2.537 ms
Remote clock offset: 0.489 ms

# Below is generated by plot.py at 2018-06-19 04:44:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 9.758 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 9.758 ms
Loss rate: 0.05%
```

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

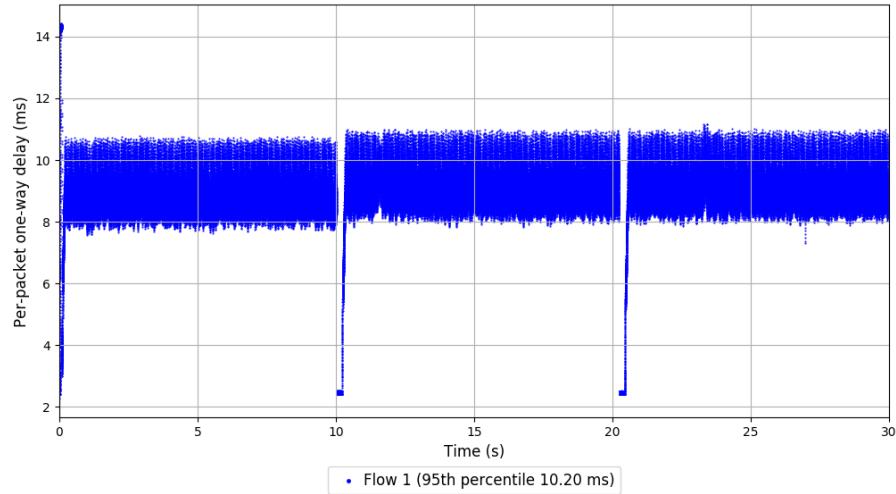
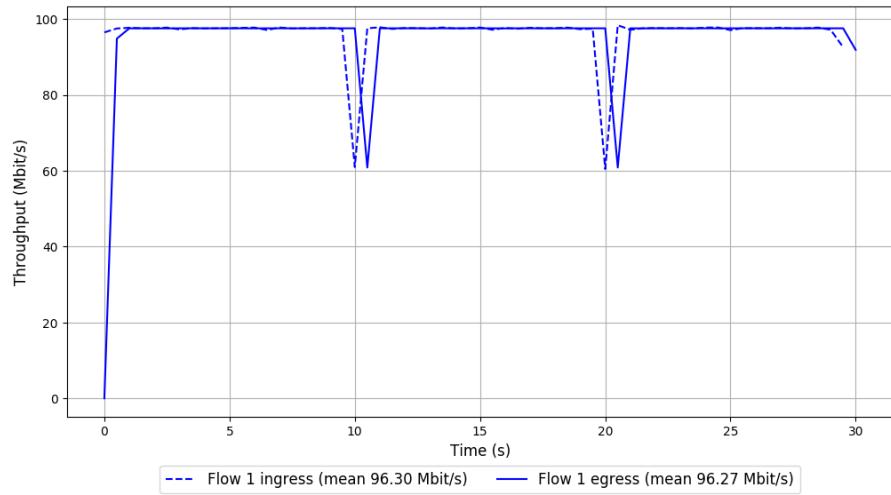


Run 10: Statistics of TCP BBR

```
Start at: 2018-06-19 04:25:45
End at: 2018-06-19 04:26:15
Local clock offset: -1.682 ms
Remote clock offset: -0.615 ms

# Below is generated by plot.py at 2018-06-19 04:44:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 10.197 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 10.197 ms
Loss rate: 0.05%
```

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

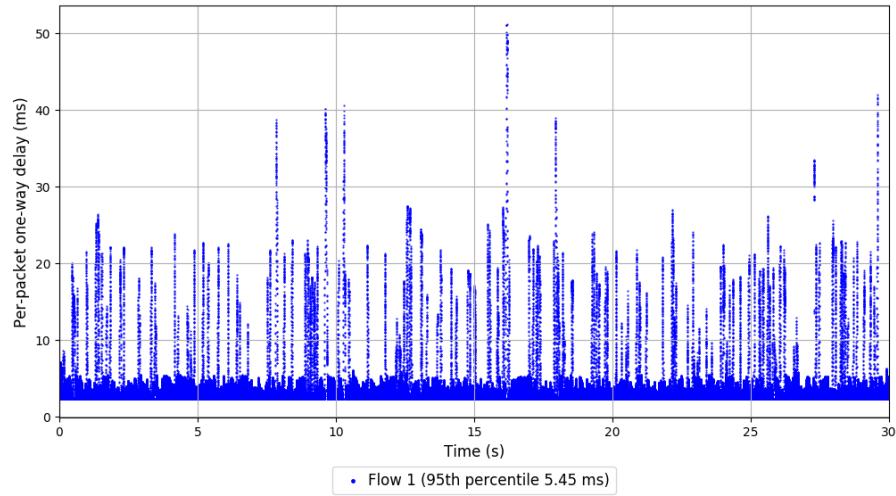
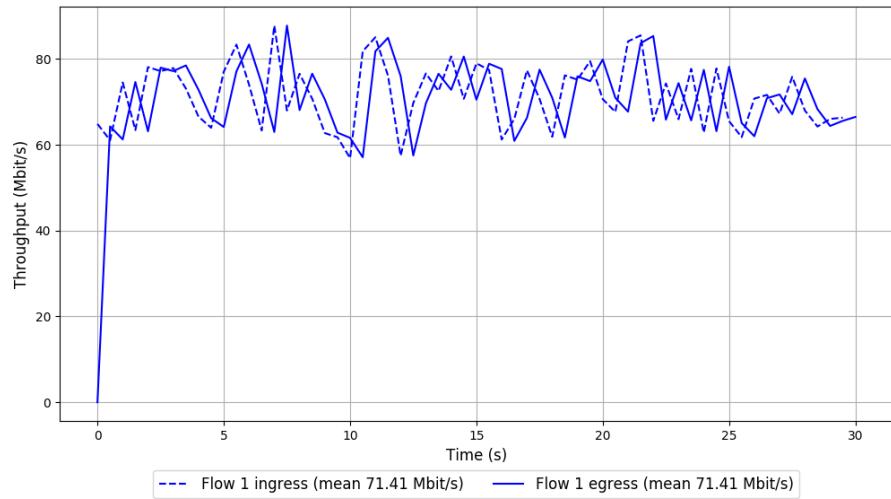


Run 1: Statistics of Copa

```
Start at: 2018-06-19 01:44:02
End at: 2018-06-19 01:44:32
Local clock offset: -1.864 ms
Remote clock offset: -1.543 ms

# Below is generated by plot.py at 2018-06-19 04:45:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.41 Mbit/s
95th percentile per-packet one-way delay: 5.445 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 71.41 Mbit/s
95th percentile per-packet one-way delay: 5.445 ms
Loss rate: 0.01%
```

### Run 1: Report of Copa — Data Link

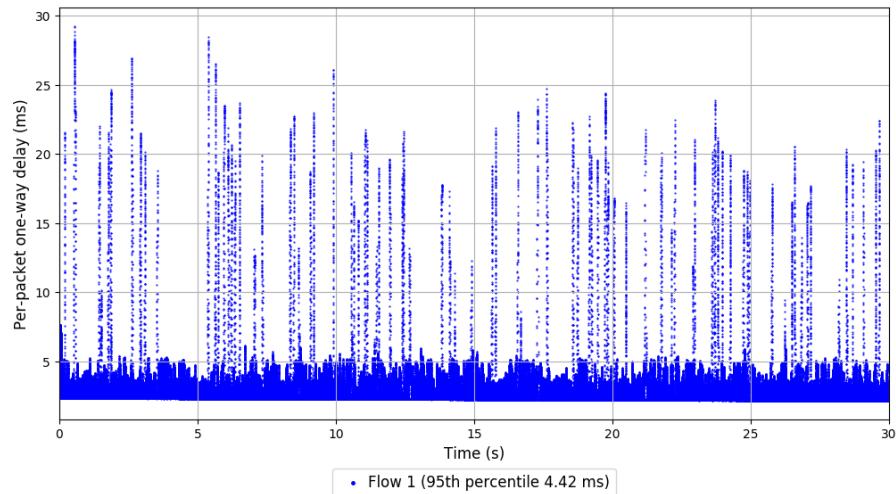
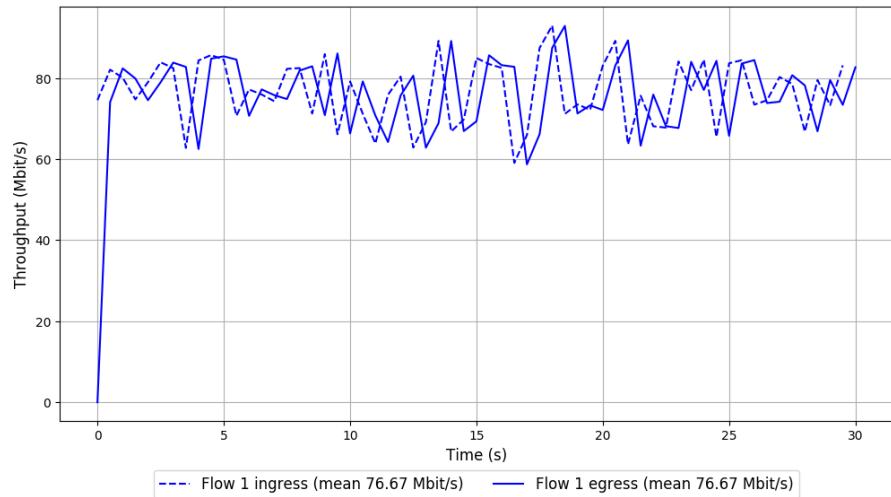


Run 2: Statistics of Copa

```
Start at: 2018-06-19 02:01:53
End at: 2018-06-19 02:02:23
Local clock offset: -1.831 ms
Remote clock offset: -4.991 ms

# Below is generated by plot.py at 2018-06-19 04:45:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.67 Mbit/s
95th percentile per-packet one-way delay: 4.423 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 76.67 Mbit/s
95th percentile per-packet one-way delay: 4.423 ms
Loss rate: 0.02%
```

## Run 2: Report of Copa — Data Link

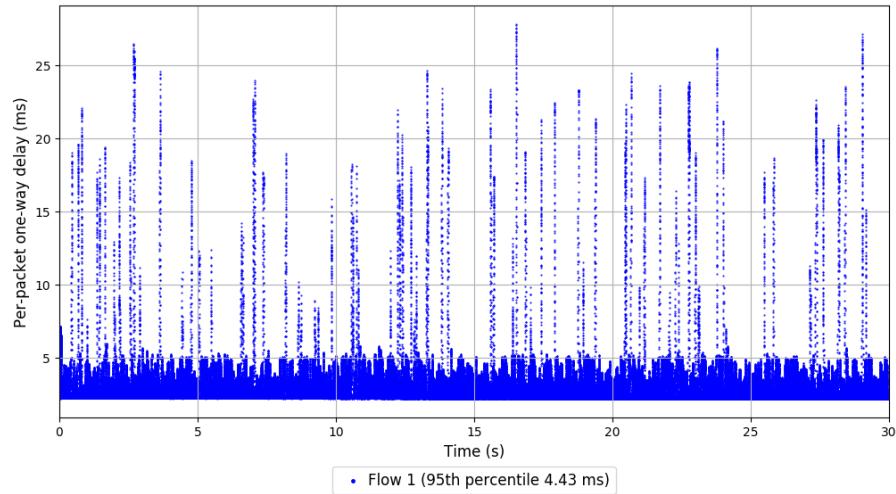
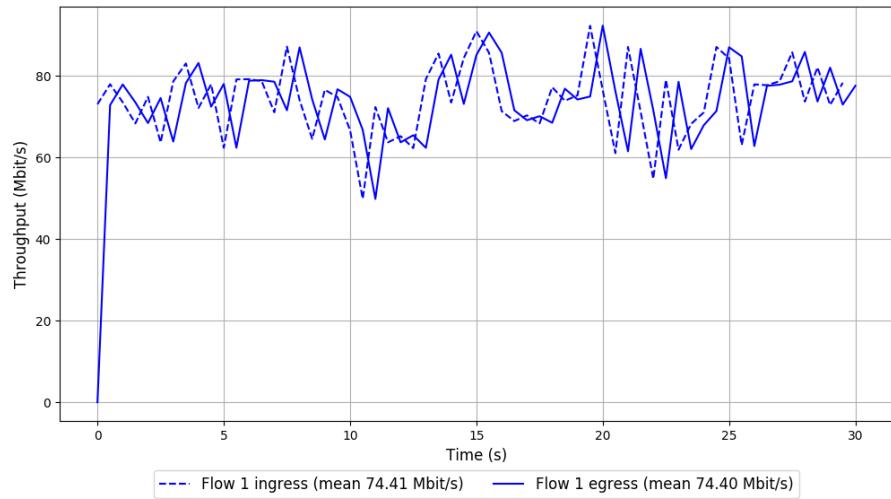


Run 3: Statistics of Copa

```
Start at: 2018-06-19 02:19:44
End at: 2018-06-19 02:20:14
Local clock offset: -2.648 ms
Remote clock offset: -8.754 ms

# Below is generated by plot.py at 2018-06-19 04:45:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.40 Mbit/s
95th percentile per-packet one-way delay: 4.434 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 74.40 Mbit/s
95th percentile per-packet one-way delay: 4.434 ms
Loss rate: 0.03%
```

### Run 3: Report of Copa — Data Link

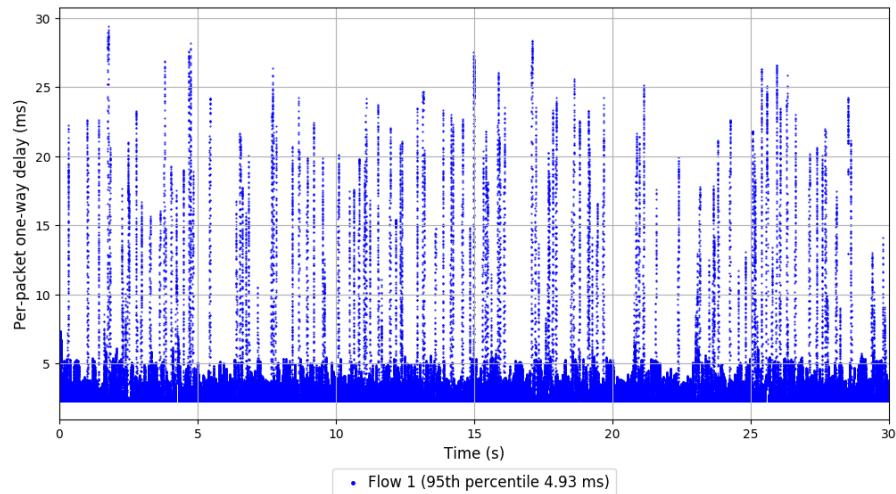
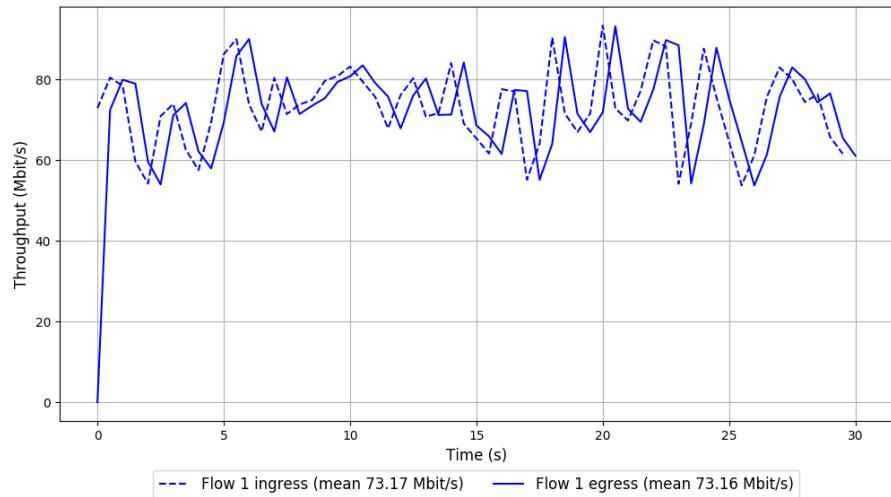


Run 4: Statistics of Copa

```
Start at: 2018-06-19 02:37:36
End at: 2018-06-19 02:38:06
Local clock offset: -2.467 ms
Remote clock offset: -8.162 ms

# Below is generated by plot.py at 2018-06-19 04:45:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.16 Mbit/s
95th percentile per-packet one-way delay: 4.929 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 73.16 Mbit/s
95th percentile per-packet one-way delay: 4.929 ms
Loss rate: 0.02%
```

### Run 4: Report of Copa — Data Link

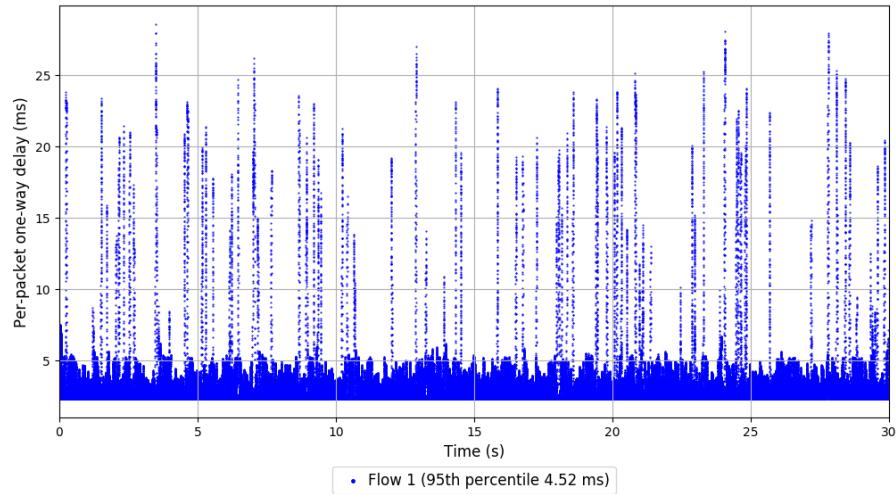
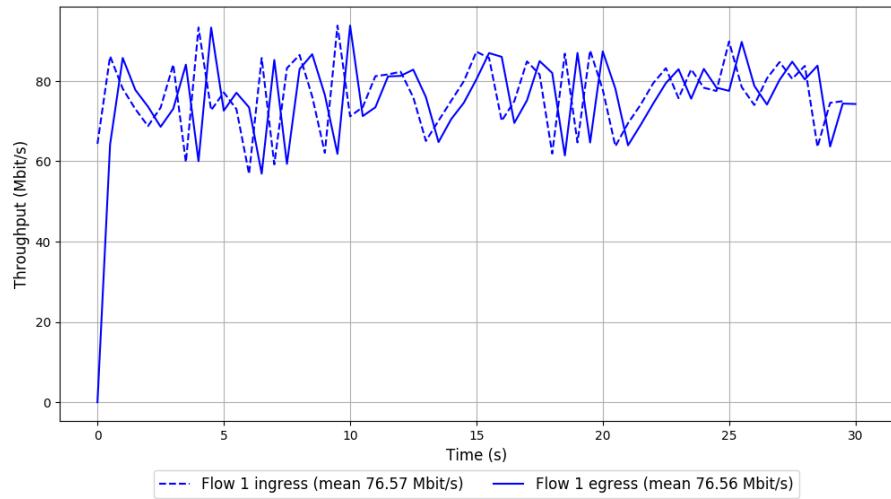


Run 5: Statistics of Copa

```
Start at: 2018-06-19 02:55:26
End at: 2018-06-19 02:55:56
Local clock offset: -1.873 ms
Remote clock offset: -7.879 ms

# Below is generated by plot.py at 2018-06-19 04:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.56 Mbit/s
95th percentile per-packet one-way delay: 4.516 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 76.56 Mbit/s
95th percentile per-packet one-way delay: 4.516 ms
Loss rate: 0.03%
```

## Run 5: Report of Copa — Data Link

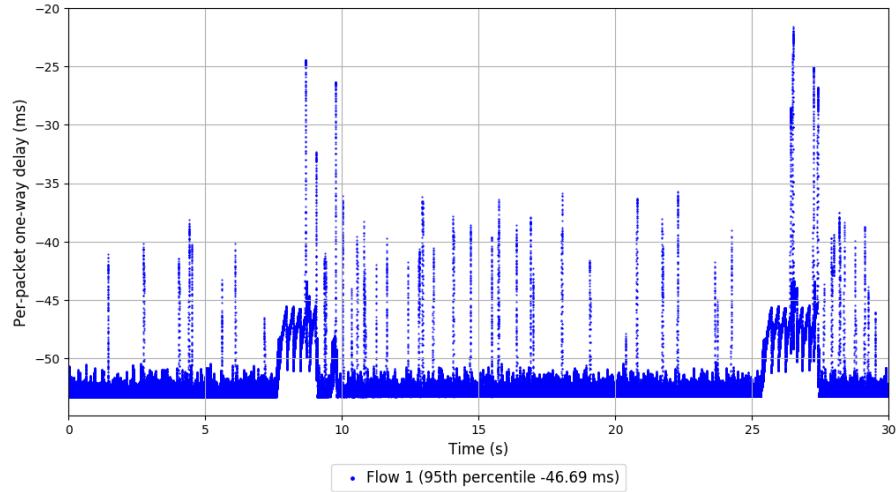
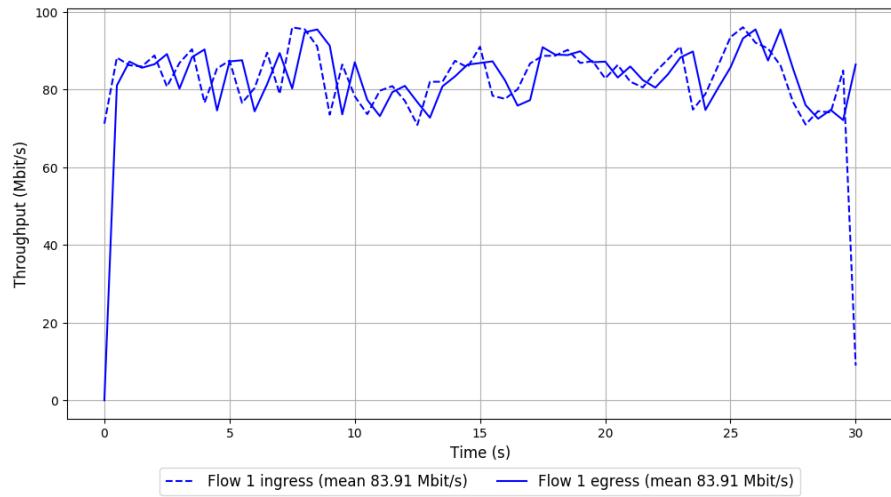


Run 6: Statistics of Copa

```
Start at: 2018-06-19 03:13:18
End at: 2018-06-19 03:13:48
Local clock offset: -2.452 ms
Remote clock offset: 47.03 ms

# Below is generated by plot.py at 2018-06-19 04:45:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.91 Mbit/s
95th percentile per-packet one-way delay: -46.687 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.91 Mbit/s
95th percentile per-packet one-way delay: -46.687 ms
Loss rate: 0.00%
```

### Run 6: Report of Copa — Data Link

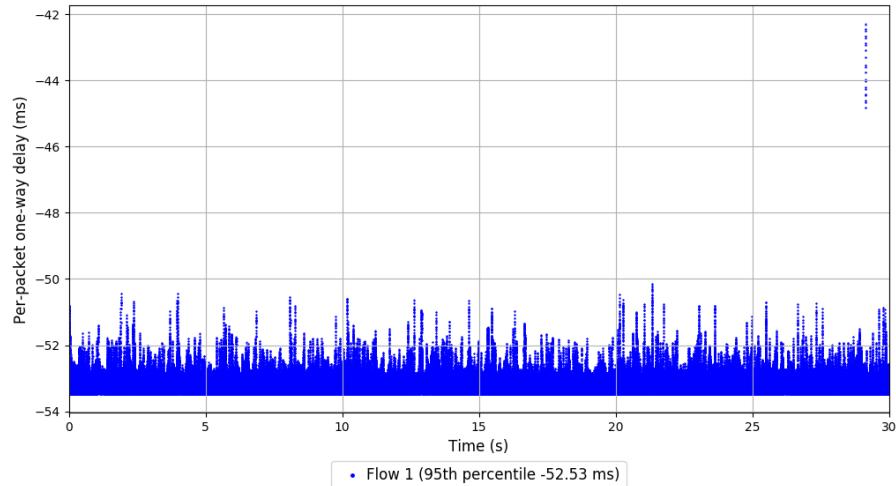
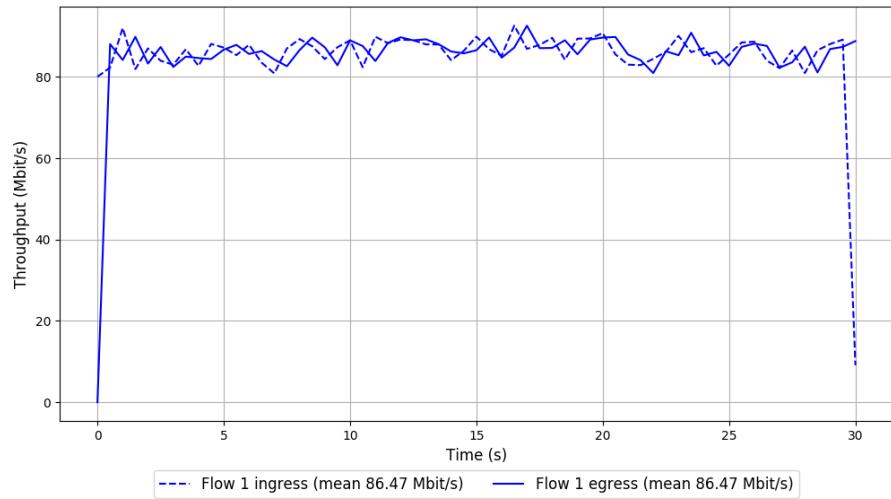


Run 7: Statistics of Copa

```
Start at: 2018-06-19 03:31:03
End at: 2018-06-19 03:31:33
Local clock offset: -2.92 ms
Remote clock offset: 47.16 ms

# Below is generated by plot.py at 2018-06-19 04:46:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.47 Mbit/s
95th percentile per-packet one-way delay: -52.527 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.47 Mbit/s
95th percentile per-packet one-way delay: -52.527 ms
Loss rate: 0.01%
```

### Run 7: Report of Copa — Data Link

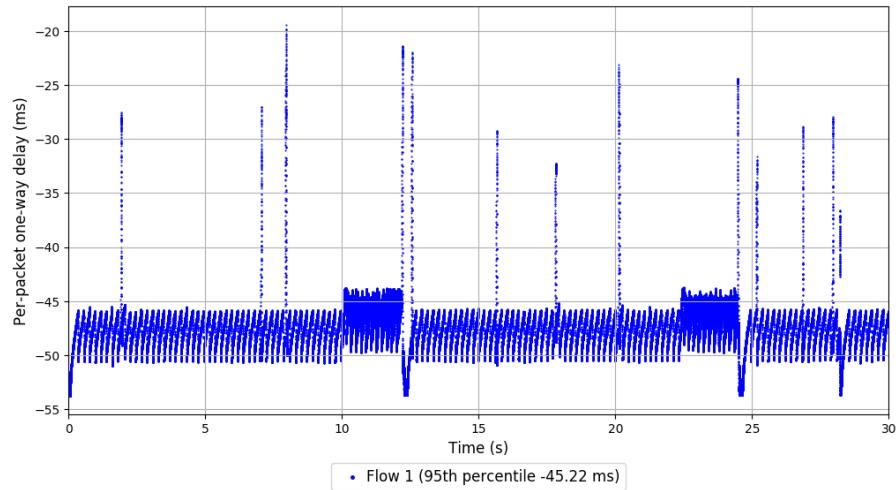
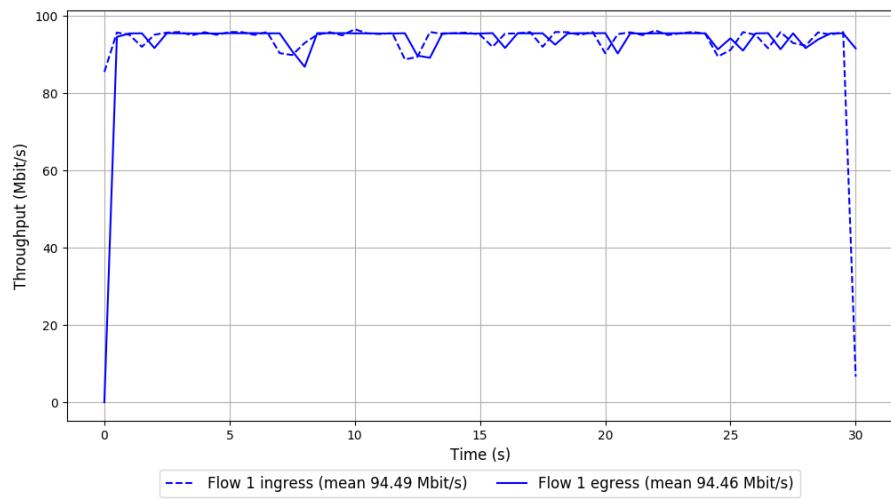


Run 8: Statistics of Copa

```
Start at: 2018-06-19 03:48:49
End at: 2018-06-19 03:49:19
Local clock offset: -2.973 ms
Remote clock offset: 51.931 ms

# Below is generated by plot.py at 2018-06-19 04:46:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: -45.224 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: -45.224 ms
Loss rate: 0.04%
```

## Run 8: Report of Copa — Data Link

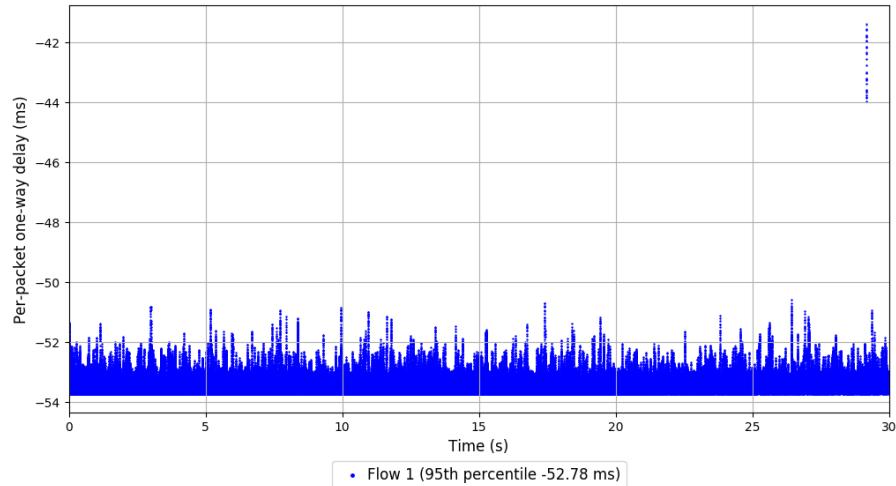
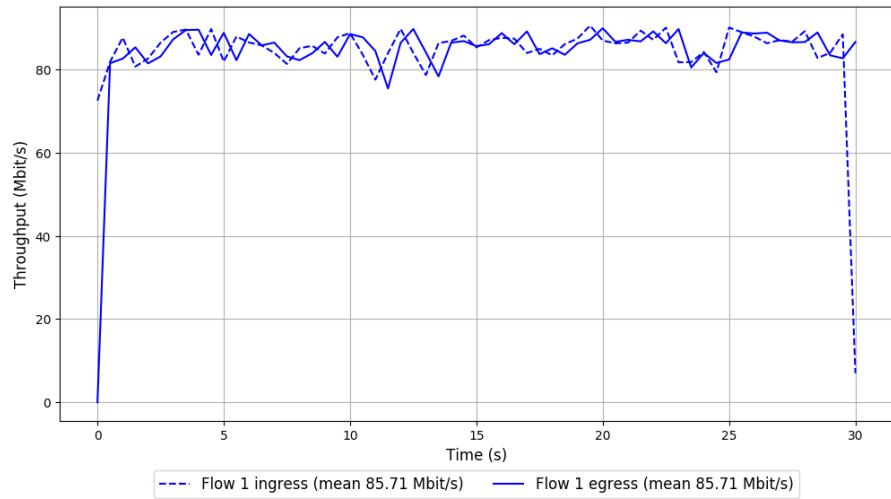


Run 9: Statistics of Copa

```
Start at: 2018-06-19 04:06:40
End at: 2018-06-19 04:07:10
Local clock offset: -2.73 ms
Remote clock offset: 54.794 ms

# Below is generated by plot.py at 2018-06-19 04:47:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.71 Mbit/s
95th percentile per-packet one-way delay: -52.781 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.71 Mbit/s
95th percentile per-packet one-way delay: -52.781 ms
Loss rate: 0.01%
```

Run 9: Report of Copa — Data Link

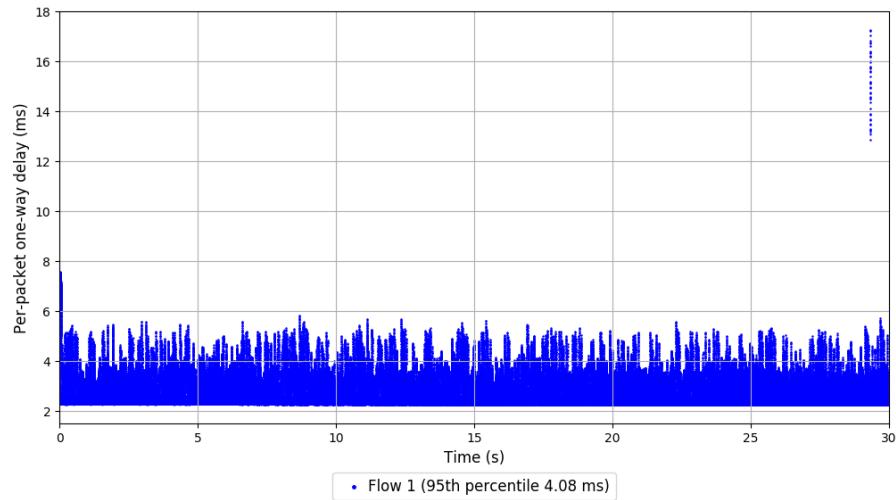
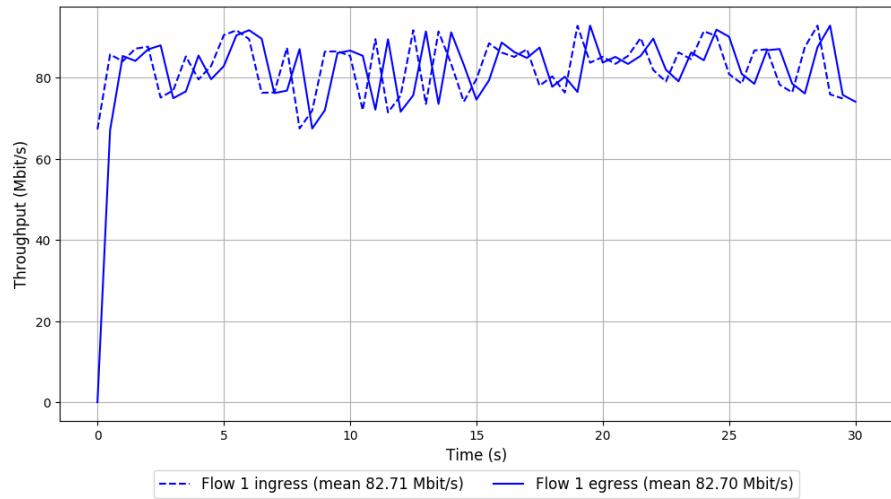


Run 10: Statistics of Copa

```
Start at: 2018-06-19 04:24:36
End at: 2018-06-19 04:25:06
Local clock offset: -1.781 ms
Remote clock offset: -0.554 ms

# Below is generated by plot.py at 2018-06-19 04:47:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.70 Mbit/s
95th percentile per-packet one-way delay: 4.081 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 82.70 Mbit/s
95th percentile per-packet one-way delay: 4.081 ms
Loss rate: 0.03%
```

Run 10: Report of Copa — Data Link

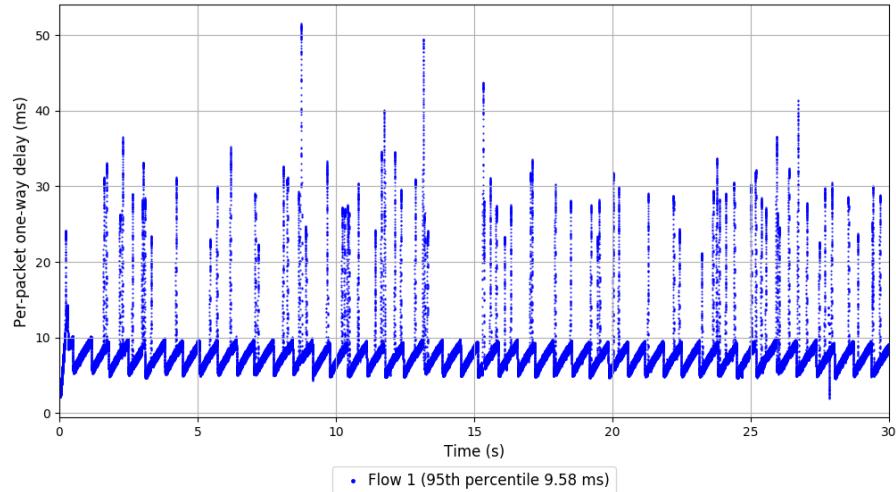
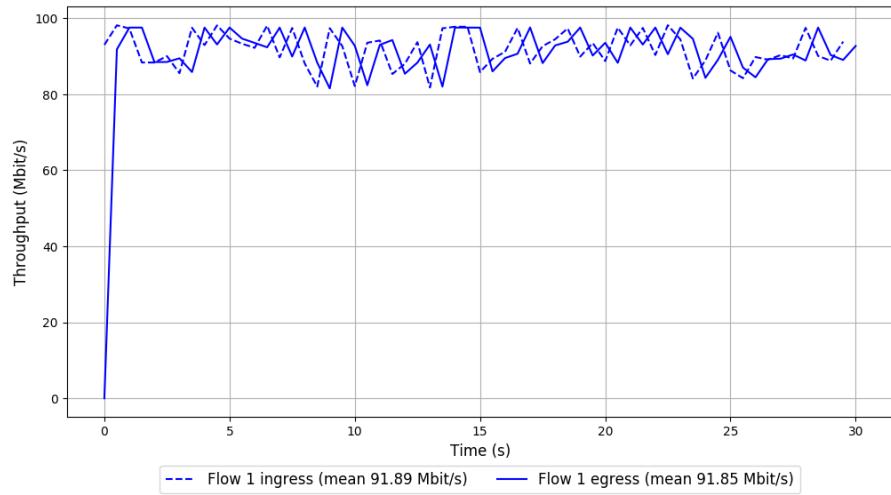


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-06-19 01:56:14
End at: 2018-06-19 01:56:44
Local clock offset: -1.858 ms
Remote clock offset: -1.916 ms

# Below is generated by plot.py at 2018-06-19 04:47:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 9.582 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 9.582 ms
Loss rate: 0.06%
```

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

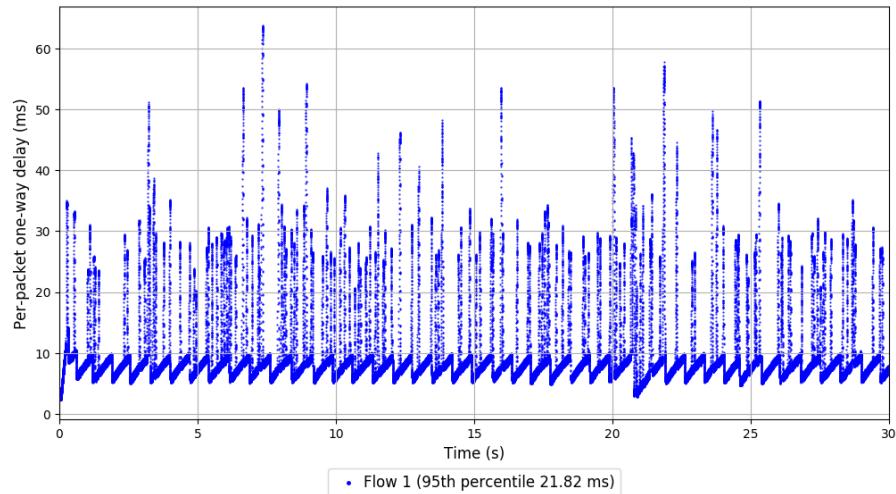
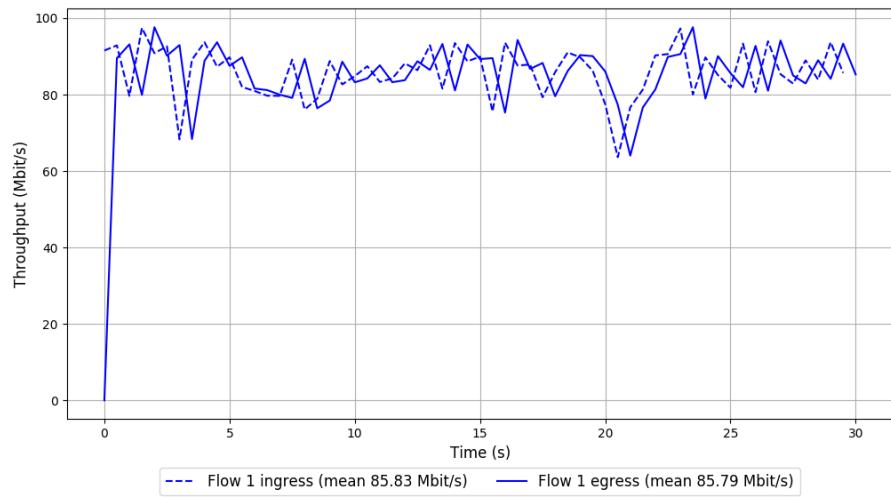


Run 2: Statistics of TCP Cubic

```
Start at: 2018-06-19 02:14:05
End at: 2018-06-19 02:14:35
Local clock offset: -2.428 ms
Remote clock offset: -7.977 ms

# Below is generated by plot.py at 2018-06-19 04:47:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.79 Mbit/s
95th percentile per-packet one-way delay: 21.825 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 85.79 Mbit/s
95th percentile per-packet one-way delay: 21.825 ms
Loss rate: 0.06%
```

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

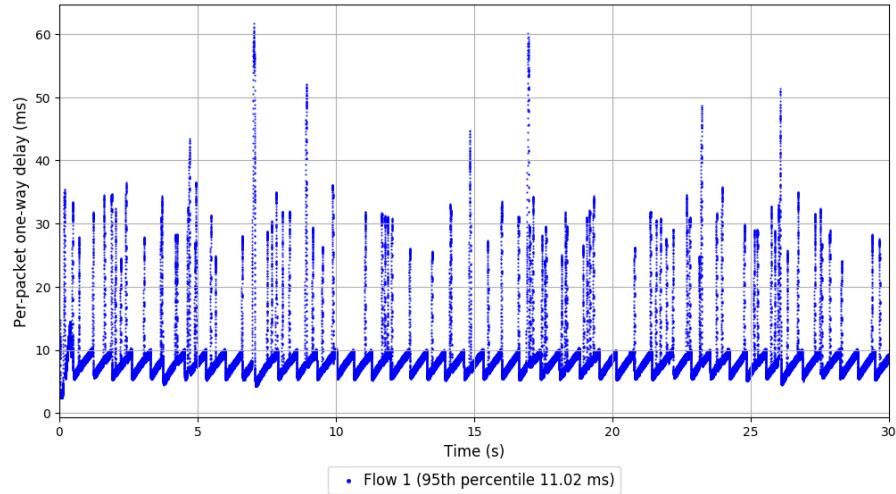
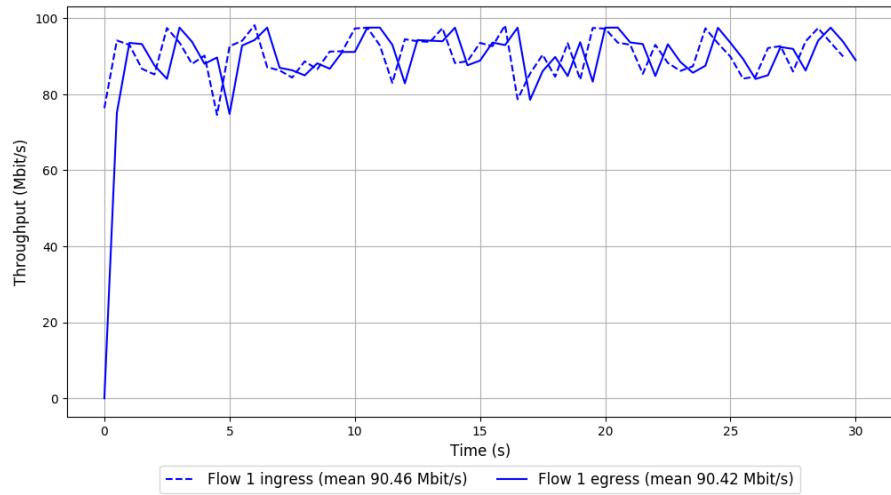


Run 3: Statistics of TCP Cubic

```
Start at: 2018-06-19 02:31:57
End at: 2018-06-19 02:32:27
Local clock offset: -2.78 ms
Remote clock offset: -9.139 ms

# Below is generated by plot.py at 2018-06-19 04:47:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 11.019 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 11.019 ms
Loss rate: 0.06%
```

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

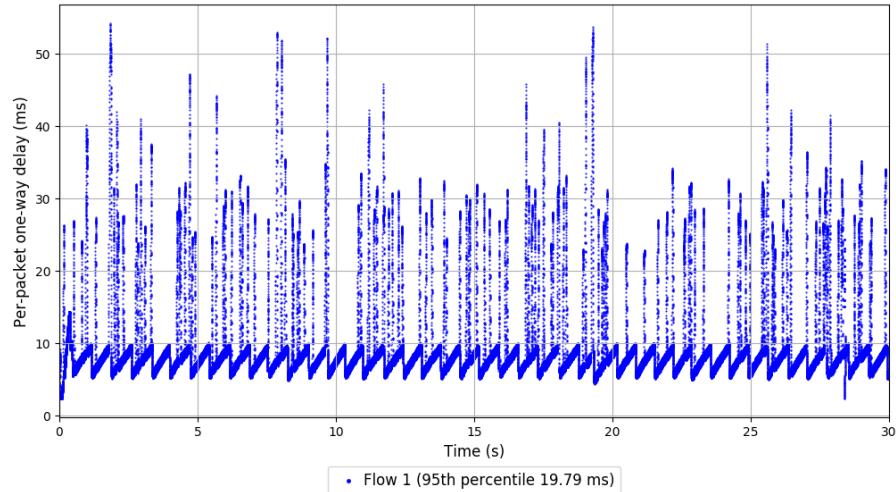
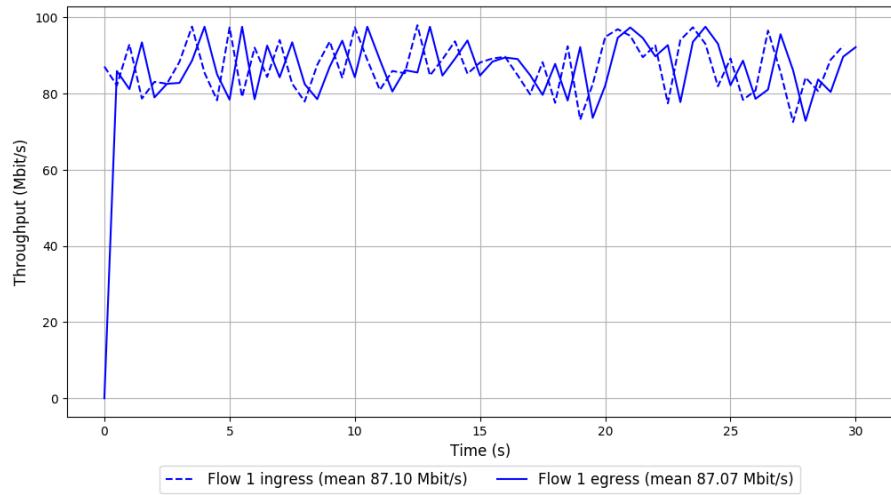


Run 4: Statistics of TCP Cubic

```
Start at: 2018-06-19 02:49:49
End at: 2018-06-19 02:50:19
Local clock offset: -1.952 ms
Remote clock offset: -7.744 ms

# Below is generated by plot.py at 2018-06-19 04:47:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.07 Mbit/s
95th percentile per-packet one-way delay: 19.790 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 87.07 Mbit/s
95th percentile per-packet one-way delay: 19.790 ms
Loss rate: 0.05%
```

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

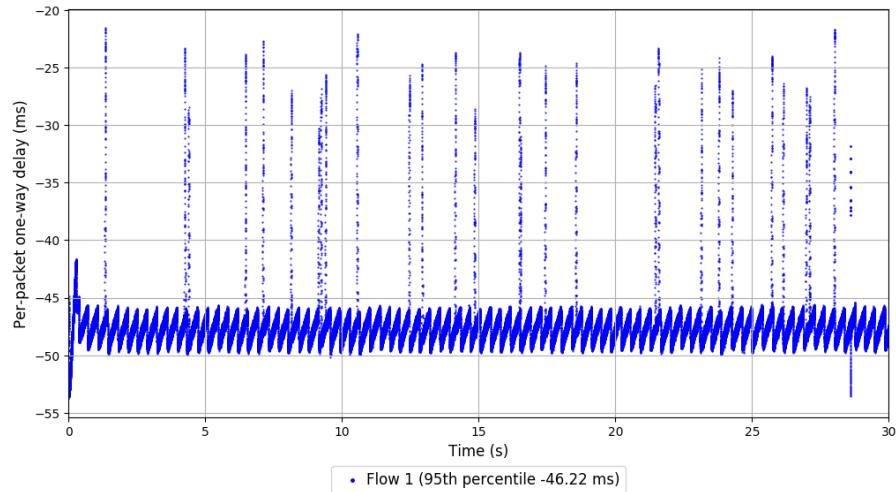
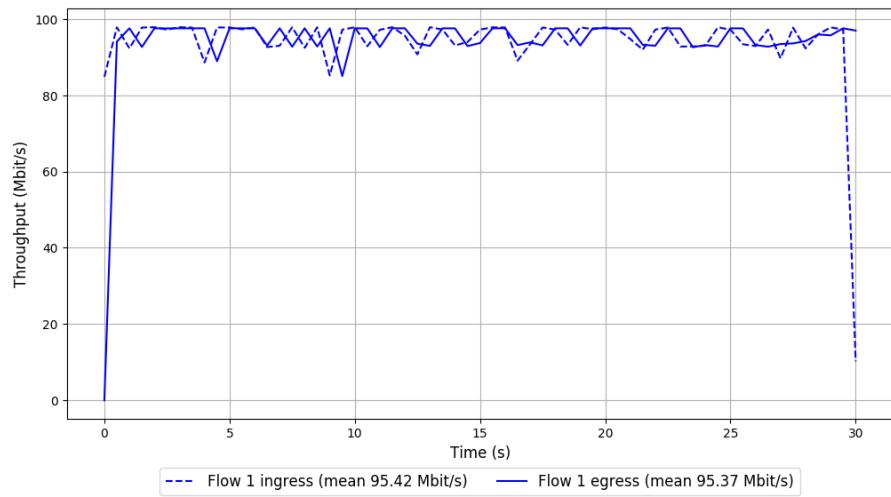


Run 5: Statistics of TCP Cubic

```
Start at: 2018-06-19 03:07:40
End at: 2018-06-19 03:08:10
Local clock offset: -2.195 ms
Remote clock offset: 46.828 ms

# Below is generated by plot.py at 2018-06-19 04:47:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: -46.221 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: -46.221 ms
Loss rate: 0.06%
```

Run 5: Report of TCP Cubic — Data Link

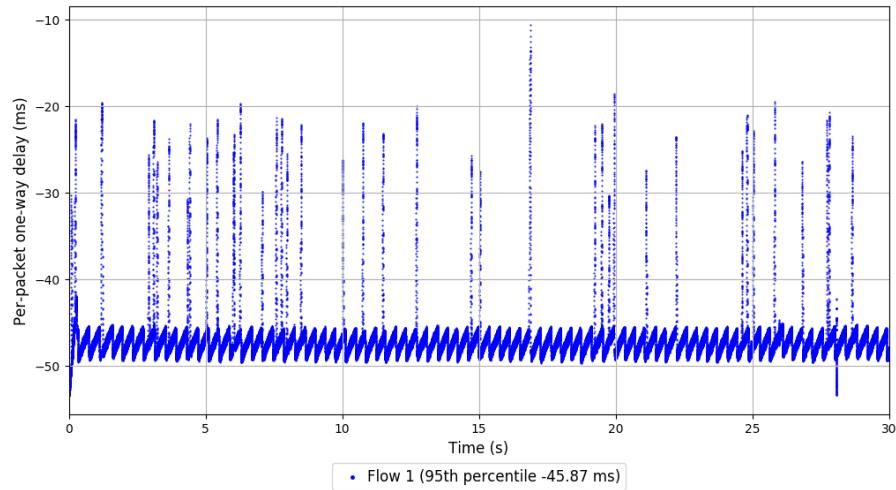
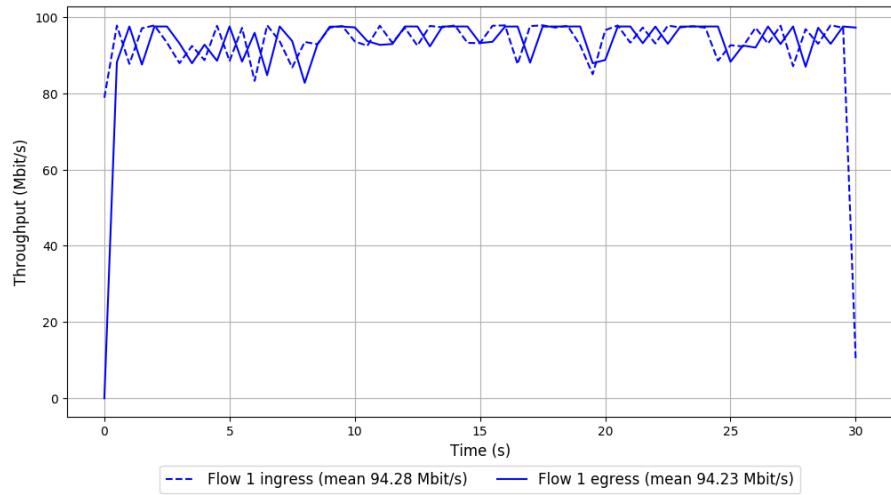


Run 6: Statistics of TCP Cubic

```
Start at: 2018-06-19 03:25:26
End at: 2018-06-19 03:25:56
Local clock offset: -2.776 ms
Remote clock offset: 47.228 ms

# Below is generated by plot.py at 2018-06-19 04:47:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.23 Mbit/s
95th percentile per-packet one-way delay: -45.871 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 94.23 Mbit/s
95th percentile per-packet one-way delay: -45.871 ms
Loss rate: 0.05%
```

Run 6: Report of TCP Cubic — Data Link

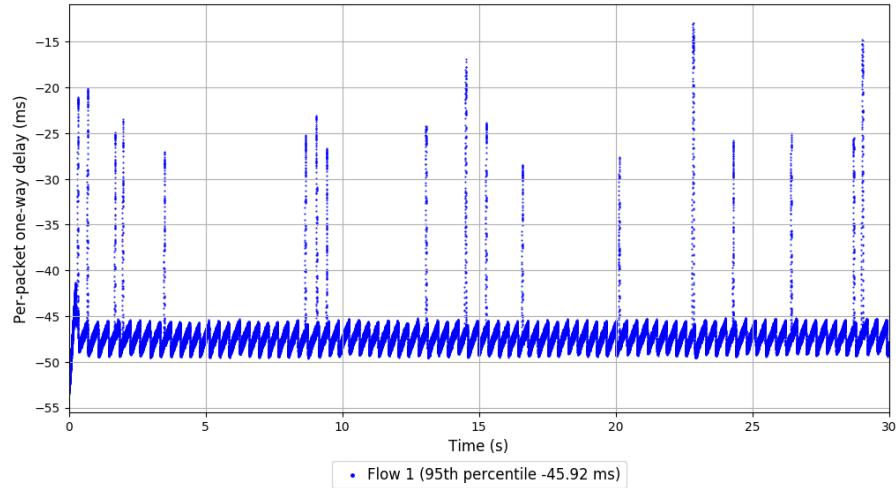
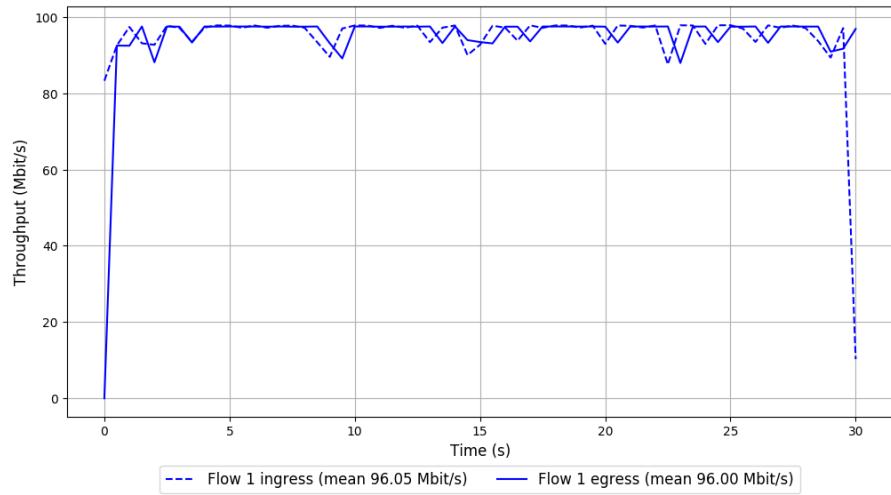


Run 7: Statistics of TCP Cubic

```
Start at: 2018-06-19 03:43:19
End at: 2018-06-19 03:43:49
Local clock offset: -2.895 ms
Remote clock offset: 49.998 ms

# Below is generated by plot.py at 2018-06-19 04:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: -45.916 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: -45.916 ms
Loss rate: 0.06%
```

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

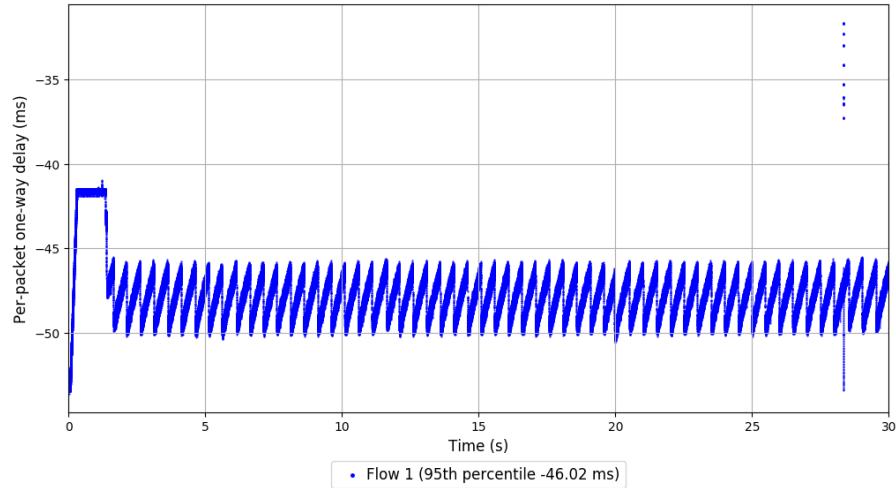
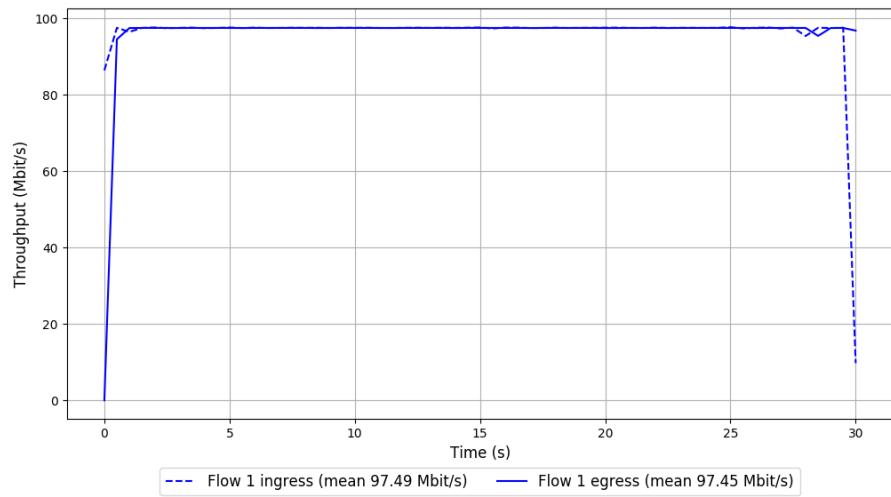


Run 8: Statistics of TCP Cubic

```
Start at: 2018-06-19 04:01:02
End at: 2018-06-19 04:01:32
Local clock offset: -2.976 ms
Remote clock offset: 54.02 ms

# Below is generated by plot.py at 2018-06-19 04:47:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: -46.025 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: -46.025 ms
Loss rate: 0.05%
```

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

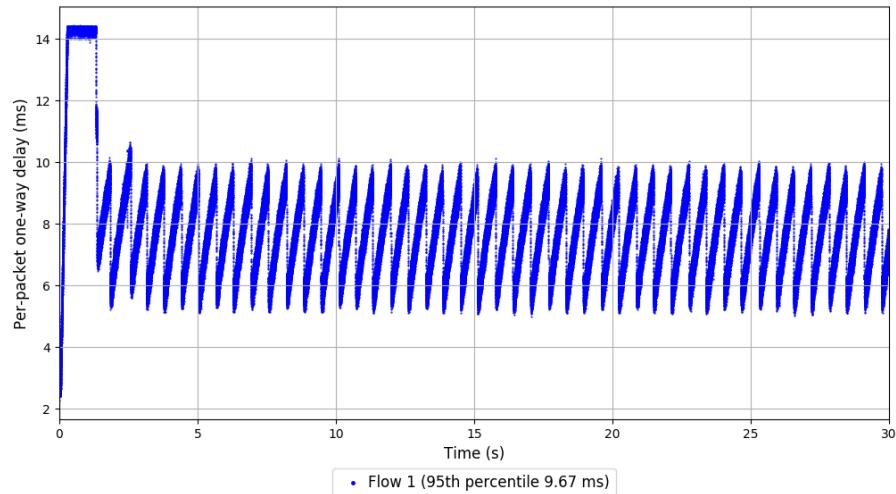
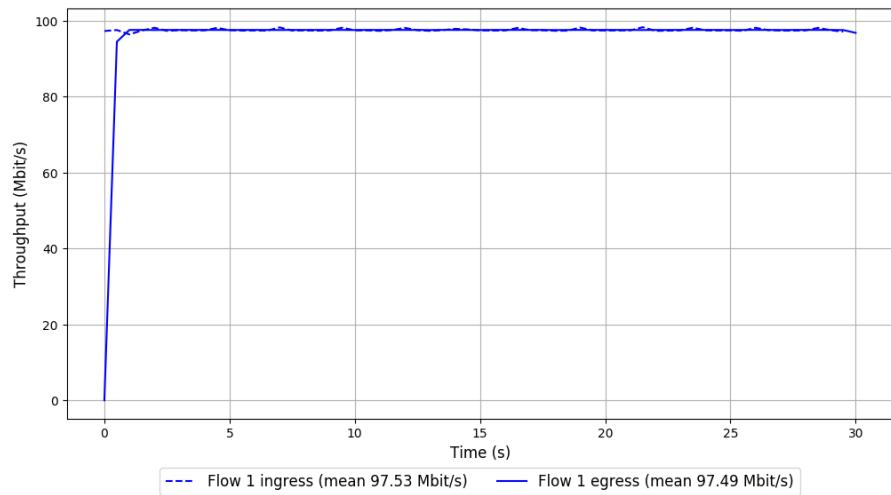


Run 9: Statistics of TCP Cubic

```
Start at: 2018-06-19 04:18:55
End at: 2018-06-19 04:19:25
Local clock offset: -1.945 ms
Remote clock offset: -0.375 ms

# Below is generated by plot.py at 2018-06-19 04:47:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 9.670 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 9.670 ms
Loss rate: 0.05%
```

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

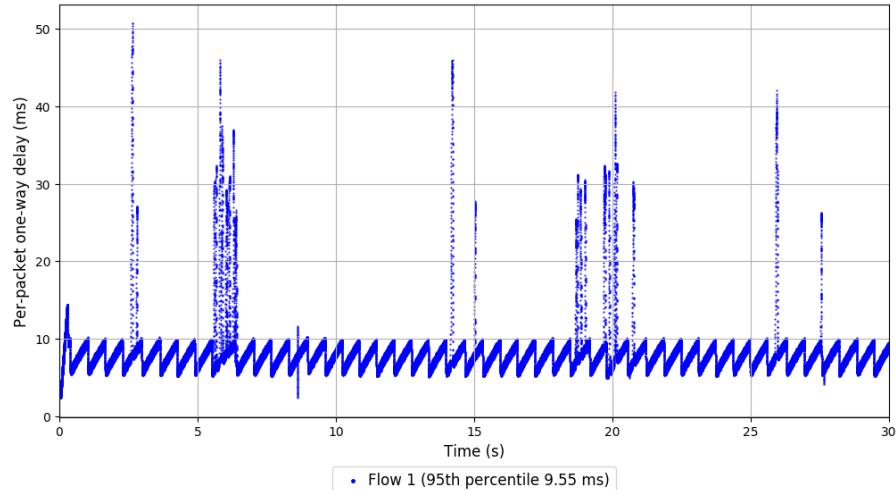
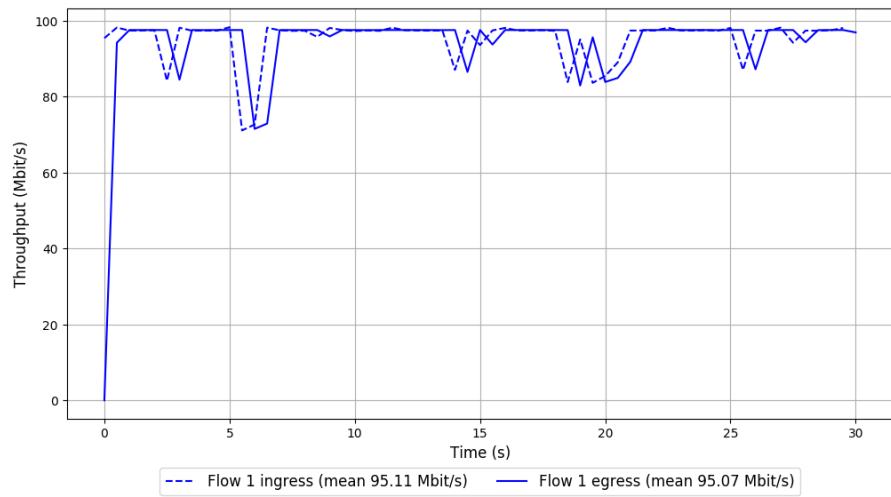


```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2018-06-19 04:36:51
End at: 2018-06-19 04:37:21
Local clock offset: -1.637 ms
Remote clock offset: -0.469 ms

# Below is generated by plot.py at 2018-06-19 04:48:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 9.555 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 9.555 ms
Loss rate: 0.06%
```

Run 10: Report of TCP Cubic — Data Link

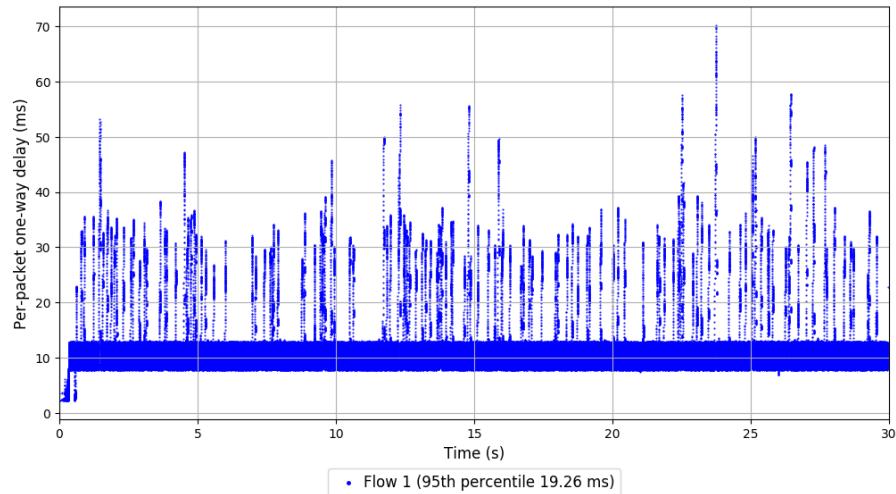
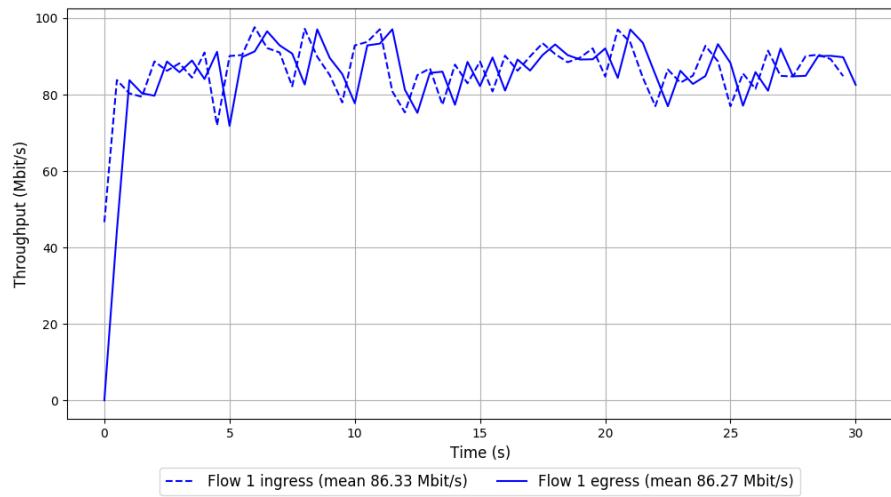


```
Run 1: Statistics of FillP
```

```
Start at: 2018-06-19 01:46:18
End at: 2018-06-19 01:46:48
Local clock offset: -1.872 ms
Remote clock offset: -1.502 ms

# Below is generated by plot.py at 2018-06-19 04:48:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 19.261 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 19.261 ms
Loss rate: 0.08%
```

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

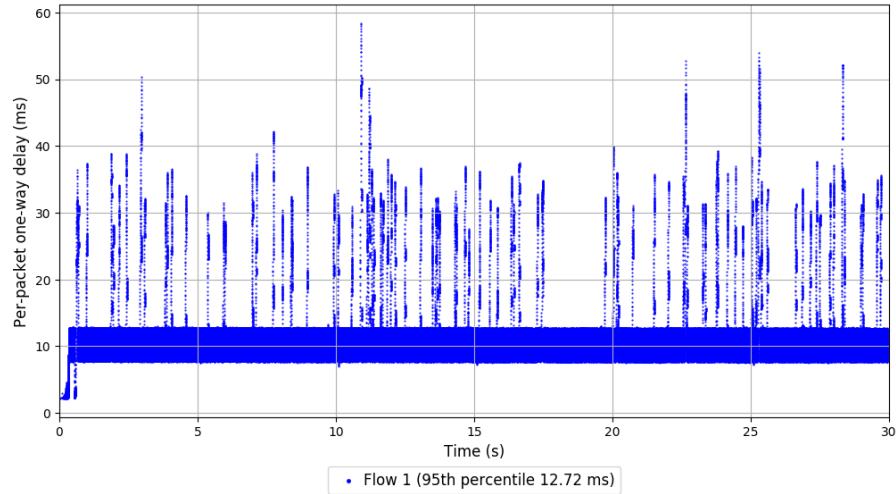
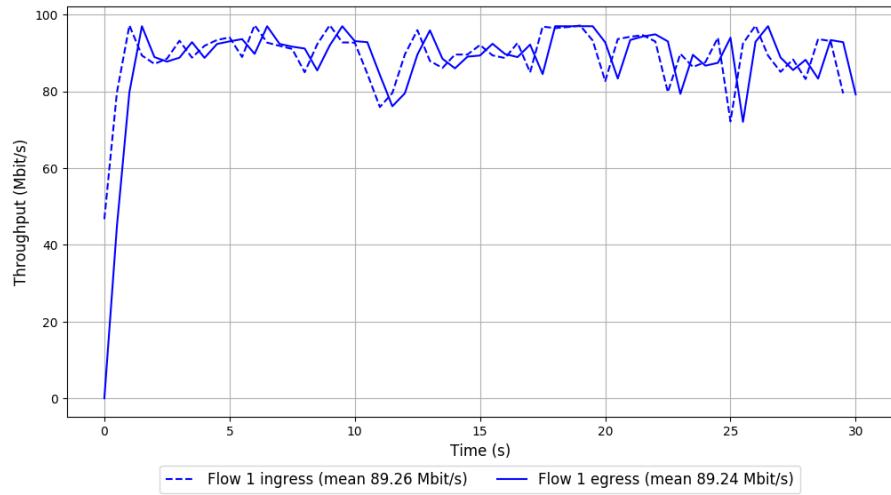


Run 2: Statistics of FillP

```
Start at: 2018-06-19 02:04:09
End at: 2018-06-19 02:04:40
Local clock offset: -1.908 ms
Remote clock offset: -5.769 ms

# Below is generated by plot.py at 2018-06-19 04:48:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.24 Mbit/s
95th percentile per-packet one-way delay: 12.725 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 89.24 Mbit/s
95th percentile per-packet one-way delay: 12.725 ms
Loss rate: 0.05%
```

## Run 2: Report of FillP — Data Link

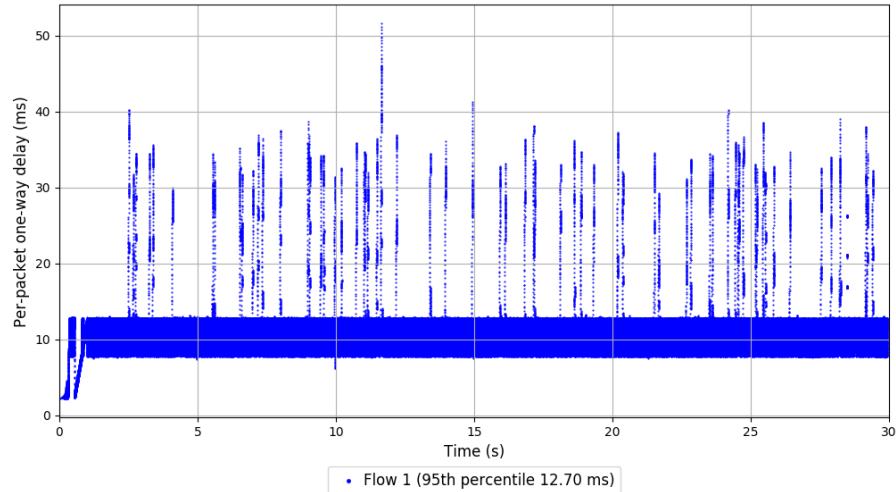
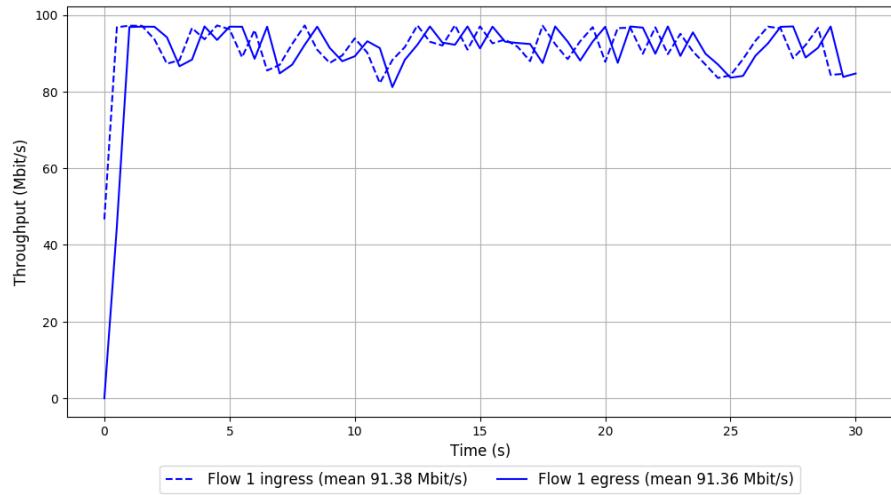


Run 3: Statistics of FillP

```
Start at: 2018-06-19 02:22:00
End at: 2018-06-19 02:22:30
Local clock offset: -2.691 ms
Remote clock offset: -9.039 ms

# Below is generated by plot.py at 2018-06-19 04:48:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 12.703 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 12.703 ms
Loss rate: 0.04%
```

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

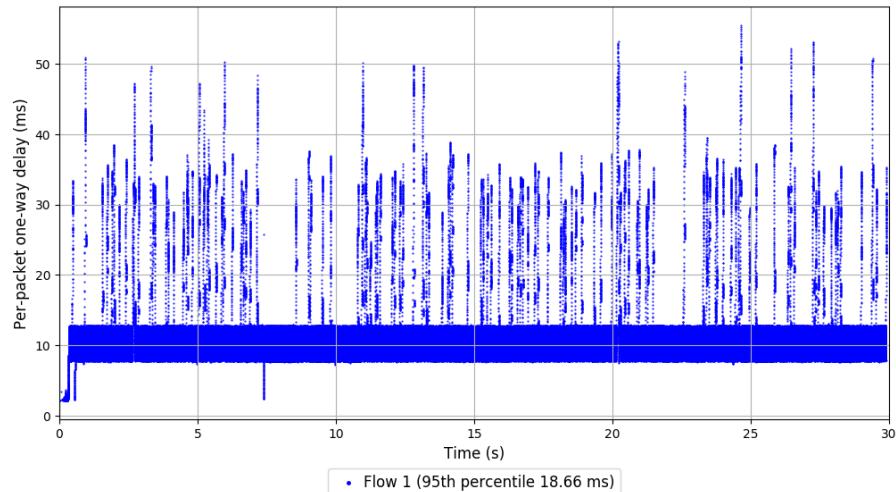
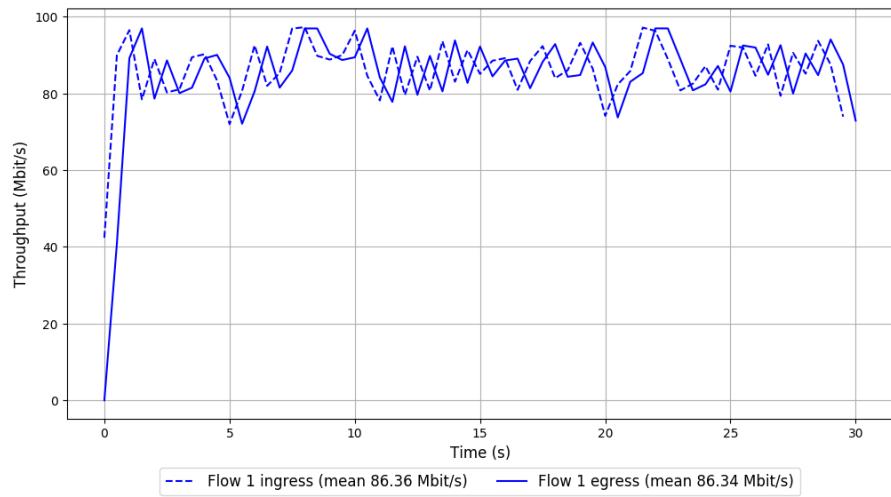


Run 4: Statistics of FillP

```
Start at: 2018-06-19 02:39:52
End at: 2018-06-19 02:40:22
Local clock offset: -2.331 ms
Remote clock offset: -7.936 ms

# Below is generated by plot.py at 2018-06-19 04:48:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.34 Mbit/s
95th percentile per-packet one-way delay: 18.664 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 86.34 Mbit/s
95th percentile per-packet one-way delay: 18.664 ms
Loss rate: 0.06%
```

## Run 4: Report of FillP — Data Link

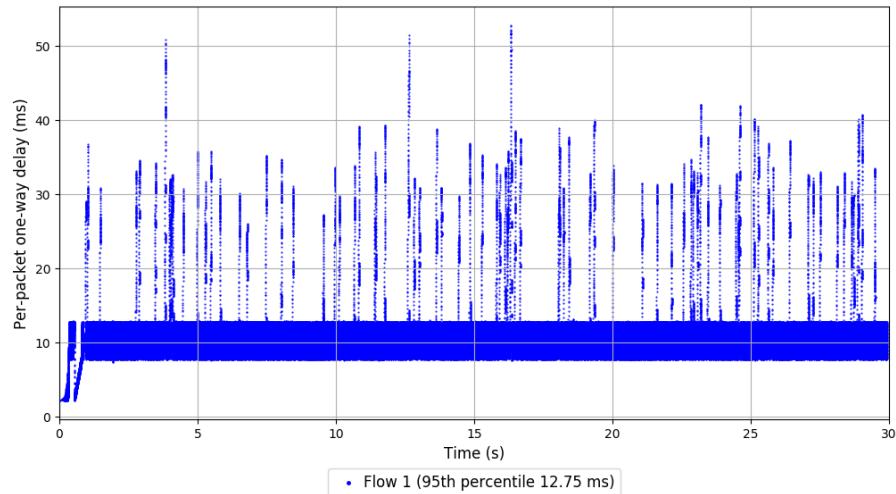
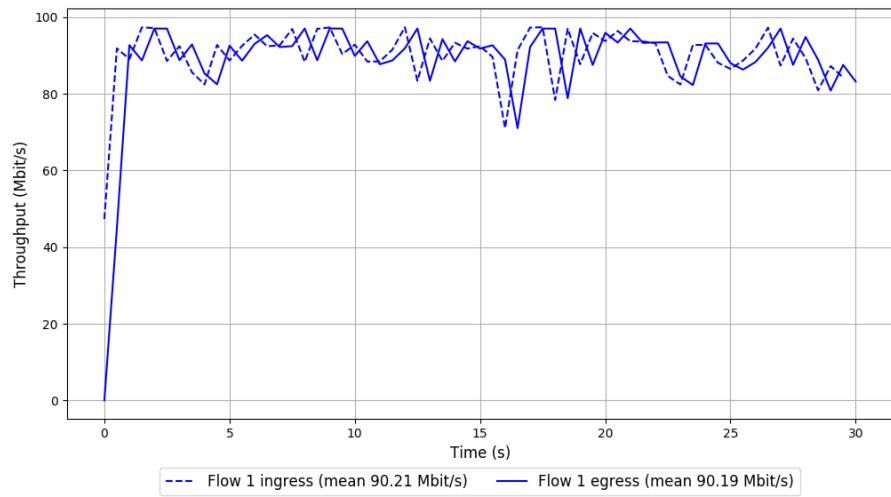


Run 5: Statistics of FillP

```
Start at: 2018-06-19 02:57:42
End at: 2018-06-19 02:58:12
Local clock offset: -1.914 ms
Remote clock offset: -8.0 ms

# Below is generated by plot.py at 2018-06-19 04:49:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.19 Mbit/s
95th percentile per-packet one-way delay: 12.752 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 90.19 Mbit/s
95th percentile per-packet one-way delay: 12.752 ms
Loss rate: 0.05%
```

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

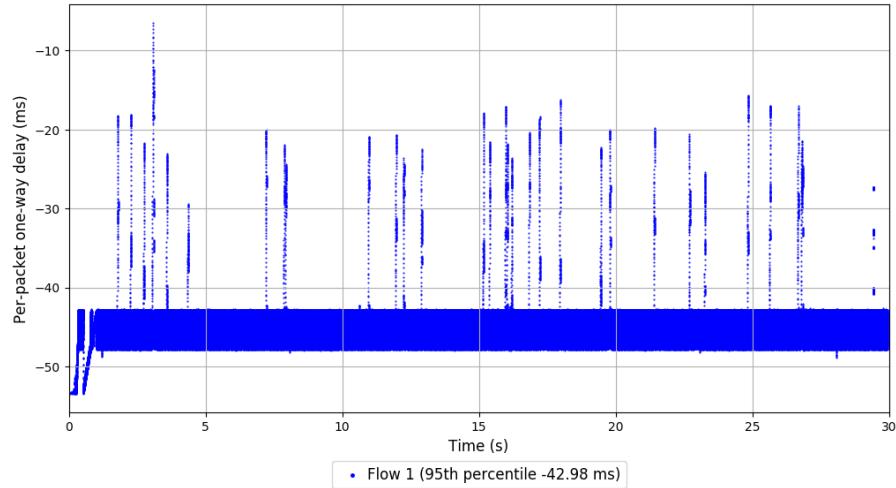
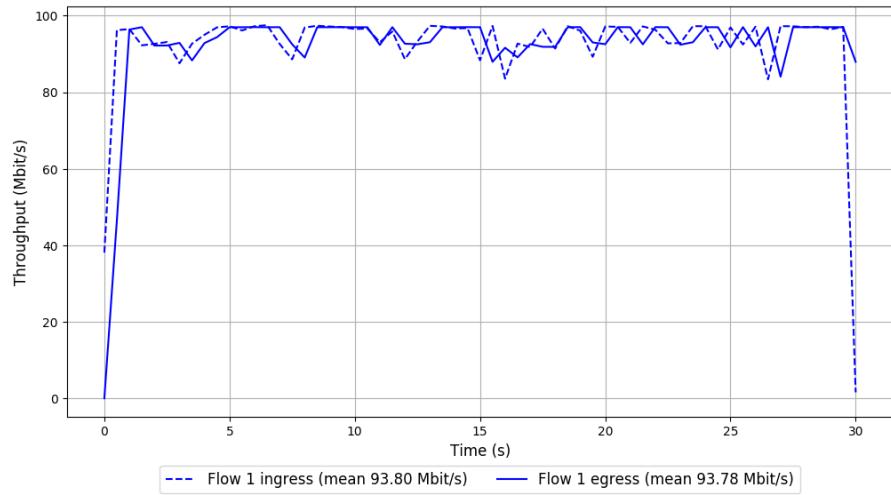


Run 6: Statistics of FillP

```
Start at: 2018-06-19 03:15:35
End at: 2018-06-19 03:16:05
Local clock offset: -2.547 ms
Remote clock offset: 47.073 ms

# Below is generated by plot.py at 2018-06-19 04:49:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: -42.976 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: -42.976 ms
Loss rate: 0.03%
```

Run 6: Report of FillP — Data Link

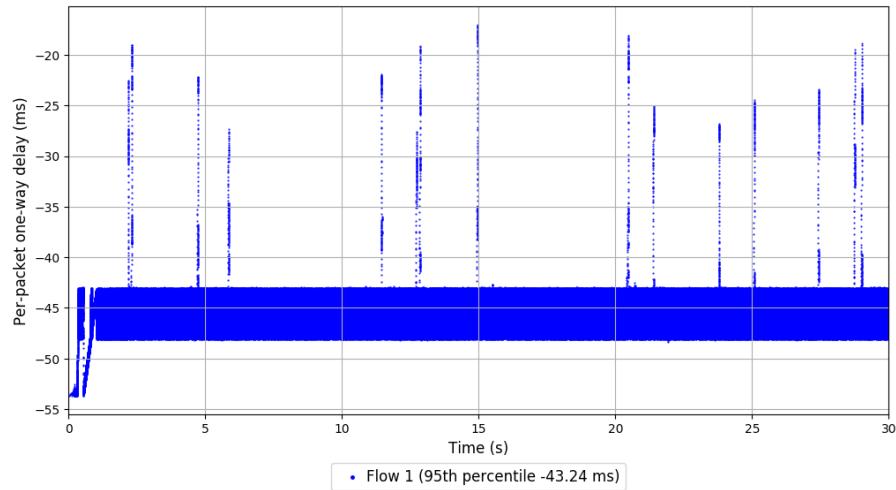
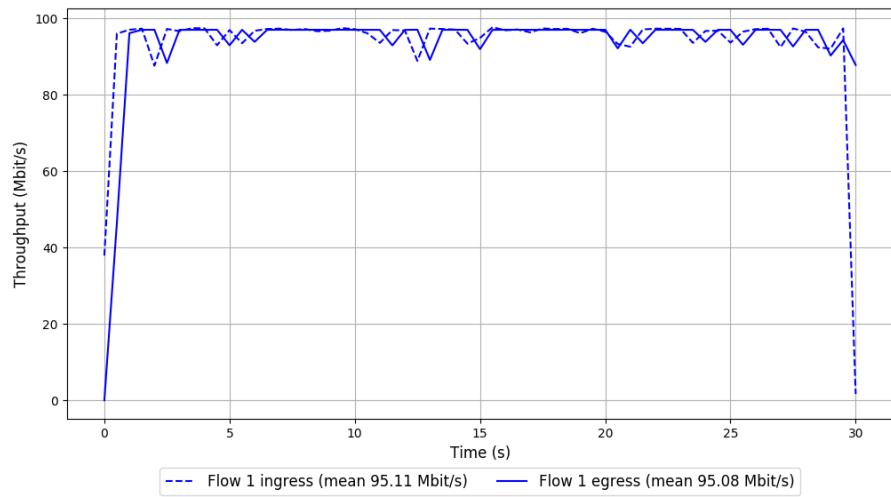


Run 7: Statistics of FillP

```
Start at: 2018-06-19 03:33:20
End at: 2018-06-19 03:33:50
Local clock offset: -2.894 ms
Remote clock offset: 47.135 ms

# Below is generated by plot.py at 2018-06-19 04:49:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: -43.243 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: -43.243 ms
Loss rate: 0.04%
```

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

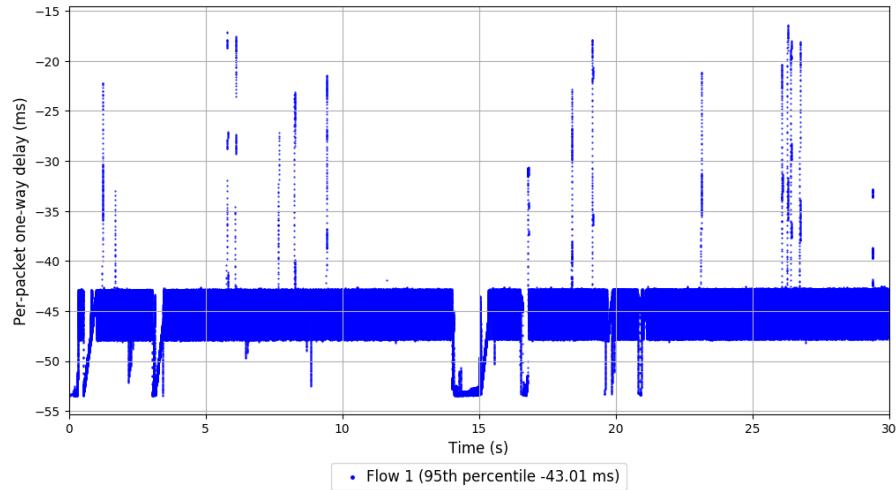
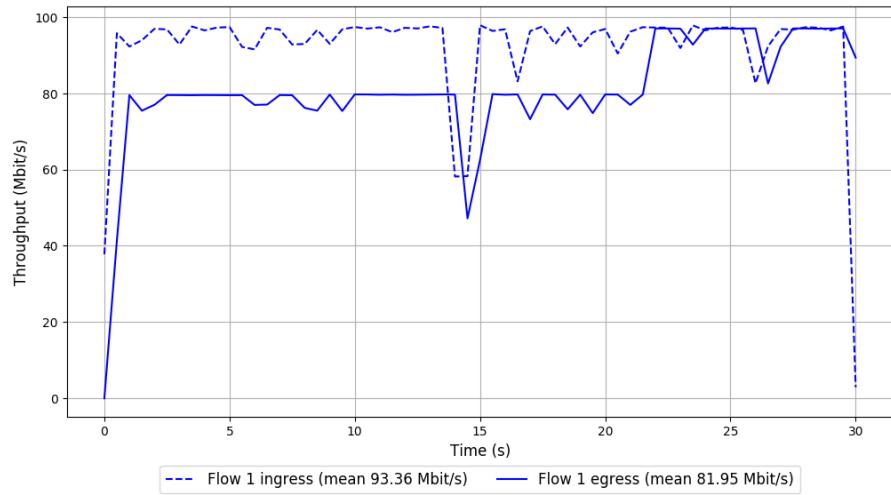


Run 8: Statistics of FillP

```
Start at: 2018-06-19 03:51:07
End at: 2018-06-19 03:51:37
Local clock offset: -2.984 ms
Remote clock offset: 52.292 ms

# Below is generated by plot.py at 2018-06-19 04:49:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.95 Mbit/s
95th percentile per-packet one-way delay: -43.006 ms
Loss rate: 12.23%
-- Flow 1:
Average throughput: 81.95 Mbit/s
95th percentile per-packet one-way delay: -43.006 ms
Loss rate: 12.23%
```

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

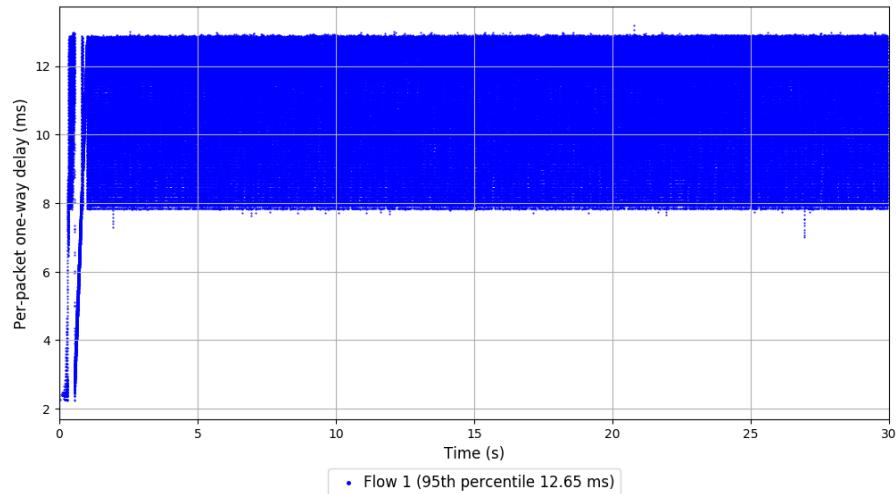
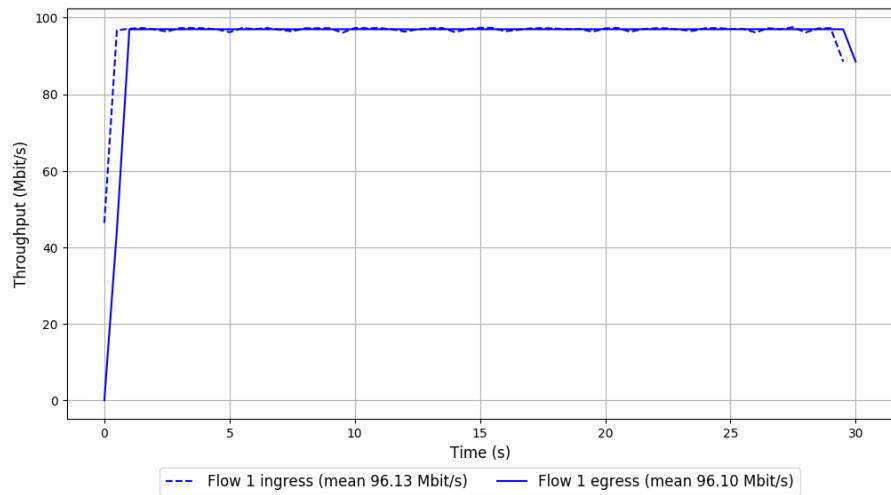


Run 9: Statistics of FillP

```
Start at: 2018-06-19 04:08:56
End at: 2018-06-19 04:09:26
Local clock offset: -2.43 ms
Remote clock offset: 0.607 ms

# Below is generated by plot.py at 2018-06-19 04:49:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 12.651 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 12.651 ms
Loss rate: 0.04%
```

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

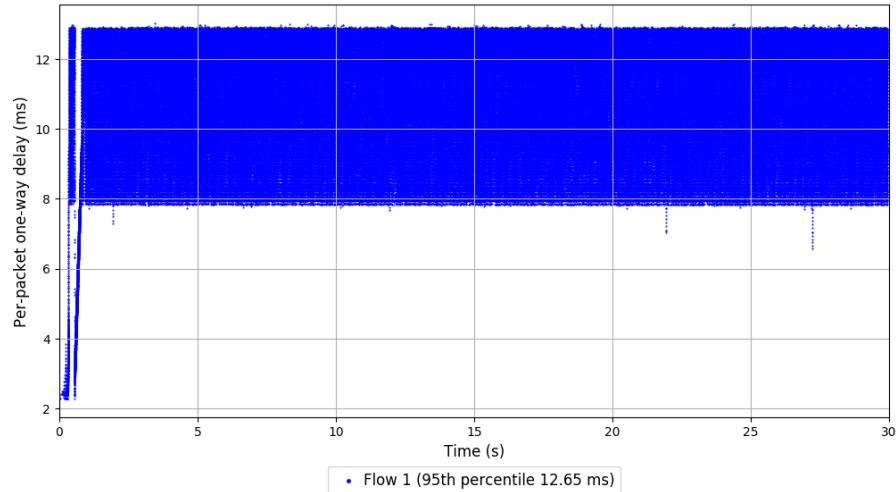
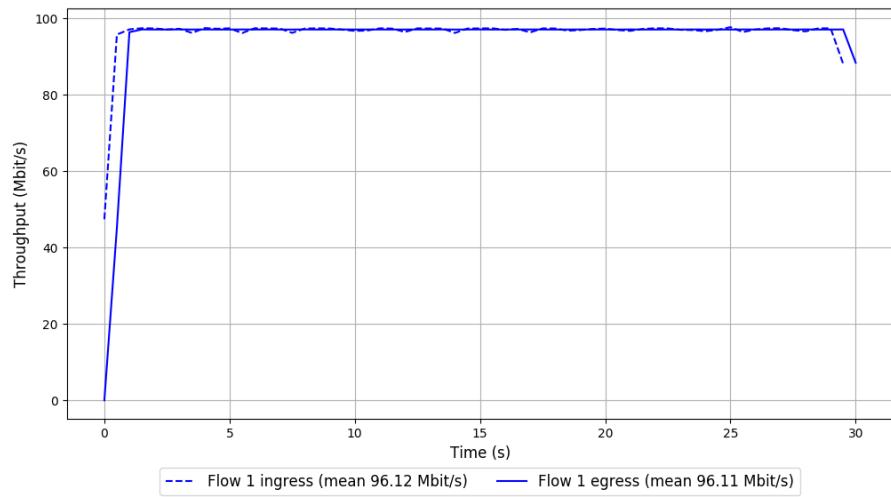


Run 10: Statistics of FillP

```
Start at: 2018-06-19 04:26:52
End at: 2018-06-19 04:27:22
Local clock offset: -1.688 ms
Remote clock offset: -0.652 ms

# Below is generated by plot.py at 2018-06-19 04:49:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 12.648 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 12.648 ms
Loss rate: 0.03%
```

Run 10: Report of FillP — Data Link

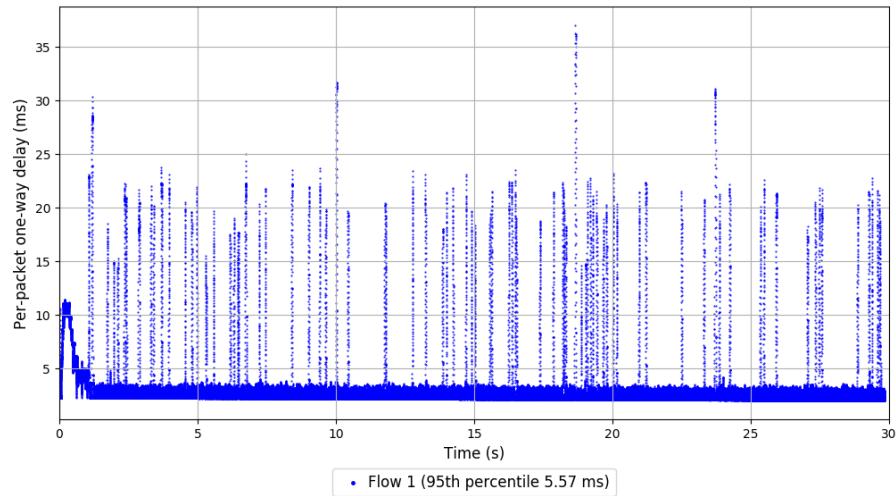
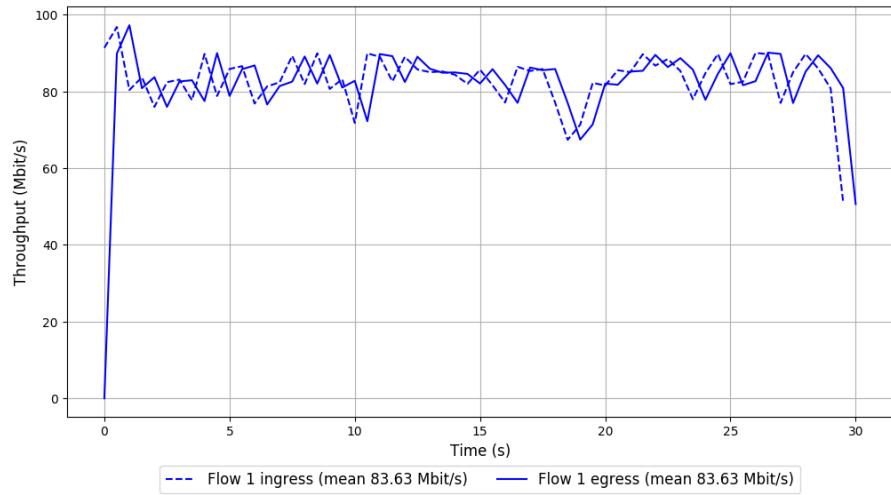


Run 1: Statistics of Indigo

```
Start at: 2018-06-19 01:58:28
End at: 2018-06-19 01:58:58
Local clock offset: -1.853 ms
Remote clock offset: -3.347 ms

# Below is generated by plot.py at 2018-06-19 04:49:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.63 Mbit/s
95th percentile per-packet one-way delay: 5.570 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 83.63 Mbit/s
95th percentile per-packet one-way delay: 5.570 ms
Loss rate: 0.02%
```

## Run 1: Report of Indigo — Data Link

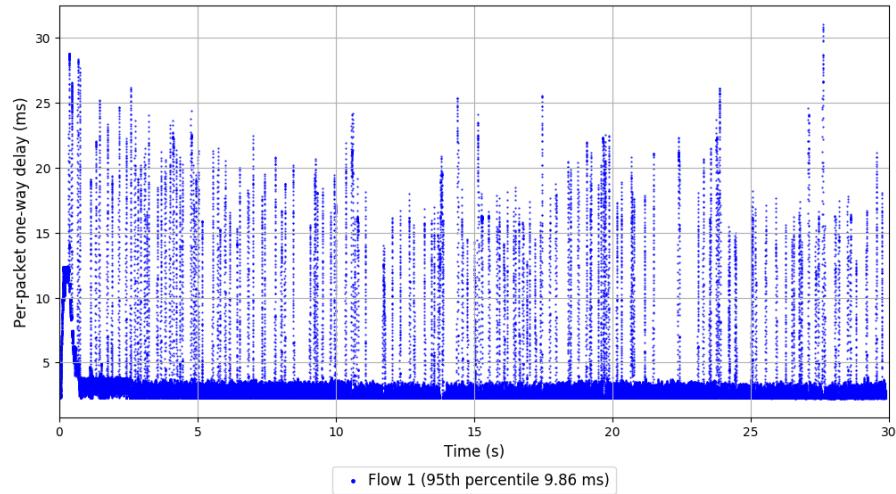
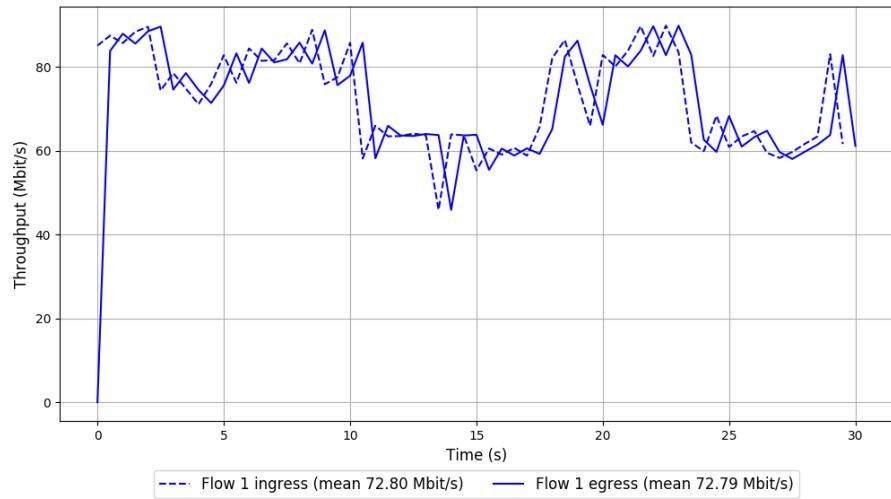


Run 2: Statistics of Indigo

```
Start at: 2018-06-19 02:16:19
End at: 2018-06-19 02:16:49
Local clock offset: -2.57 ms
Remote clock offset: -8.372 ms

# Below is generated by plot.py at 2018-06-19 04:49:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.79 Mbit/s
95th percentile per-packet one-way delay: 9.861 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 72.79 Mbit/s
95th percentile per-packet one-way delay: 9.861 ms
Loss rate: 0.02%
```

## Run 2: Report of Indigo — Data Link

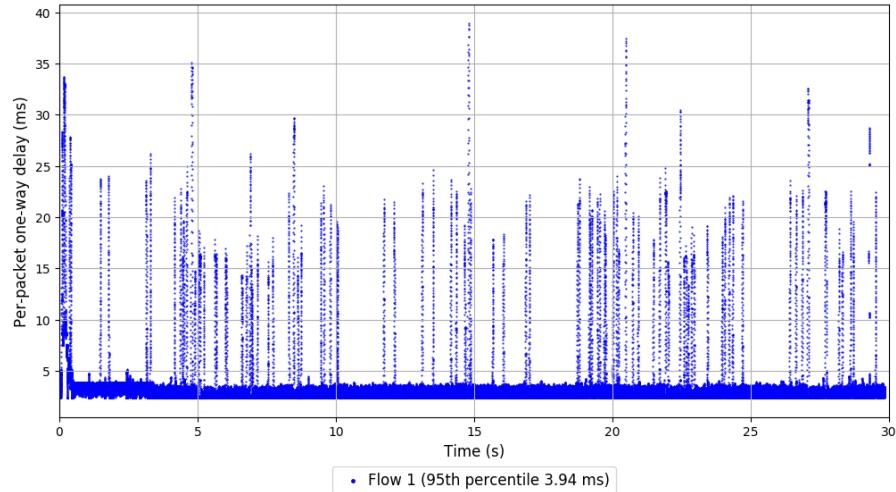
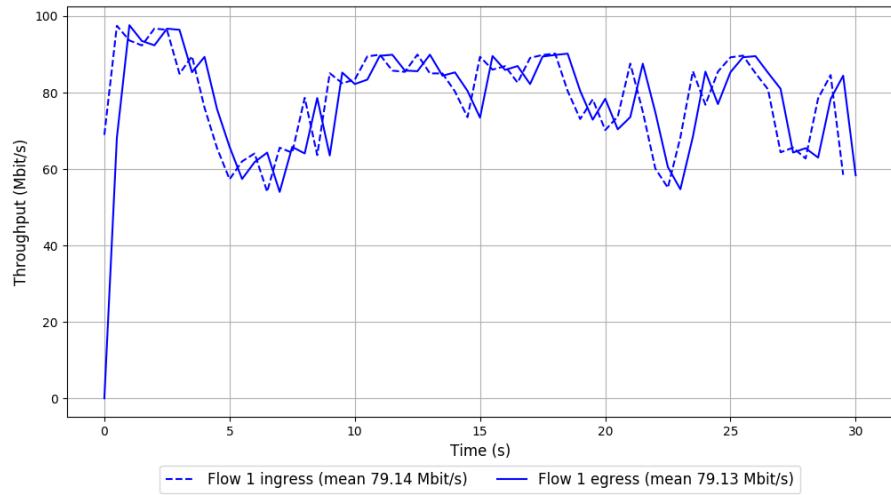


Run 3: Statistics of Indigo

```
Start at: 2018-06-19 02:34:11
End at: 2018-06-19 02:34:41
Local clock offset: -2.775 ms
Remote clock offset: -8.664 ms

# Below is generated by plot.py at 2018-06-19 04:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.13 Mbit/s
95th percentile per-packet one-way delay: 3.941 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 79.13 Mbit/s
95th percentile per-packet one-way delay: 3.941 ms
Loss rate: 0.02%
```

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

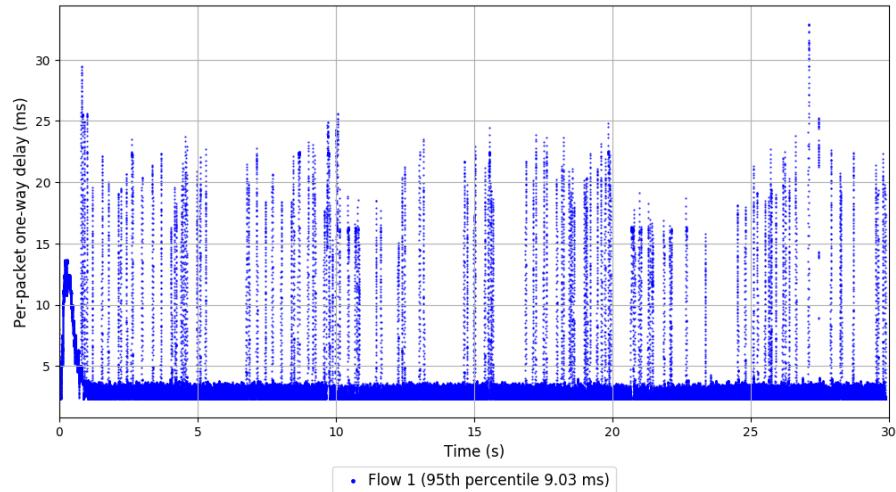
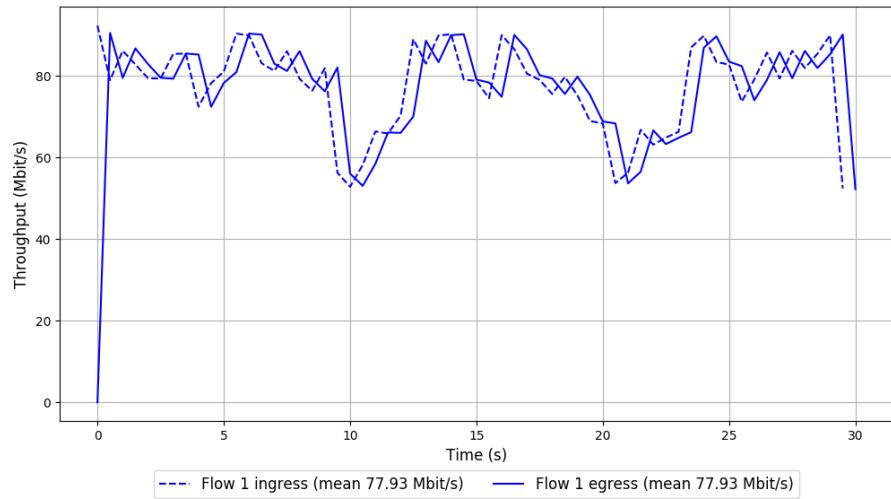


Run 4: Statistics of Indigo

```
Start at: 2018-06-19 02:52:03
End at: 2018-06-19 02:52:33
Local clock offset: -1.91 ms
Remote clock offset: -7.791 ms

# Below is generated by plot.py at 2018-06-19 04:50:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.93 Mbit/s
95th percentile per-packet one-way delay: 9.029 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 77.93 Mbit/s
95th percentile per-packet one-way delay: 9.029 ms
Loss rate: 0.02%
```

## Run 4: Report of Indigo — Data Link

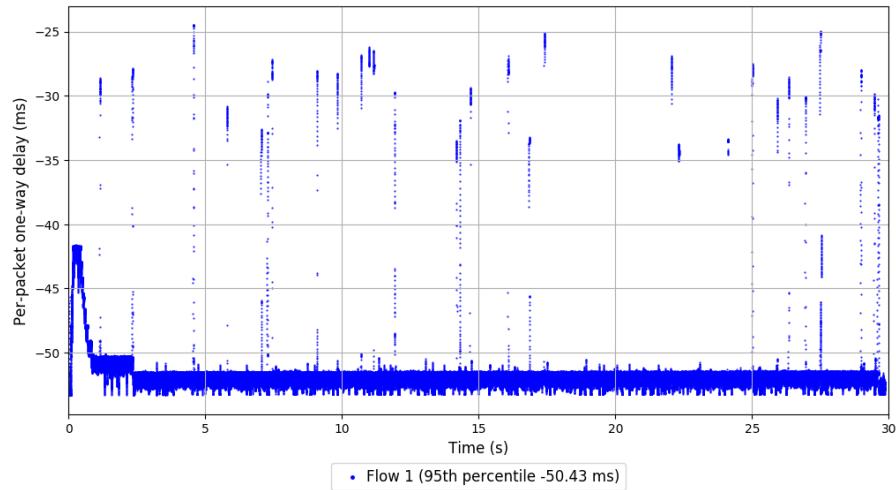
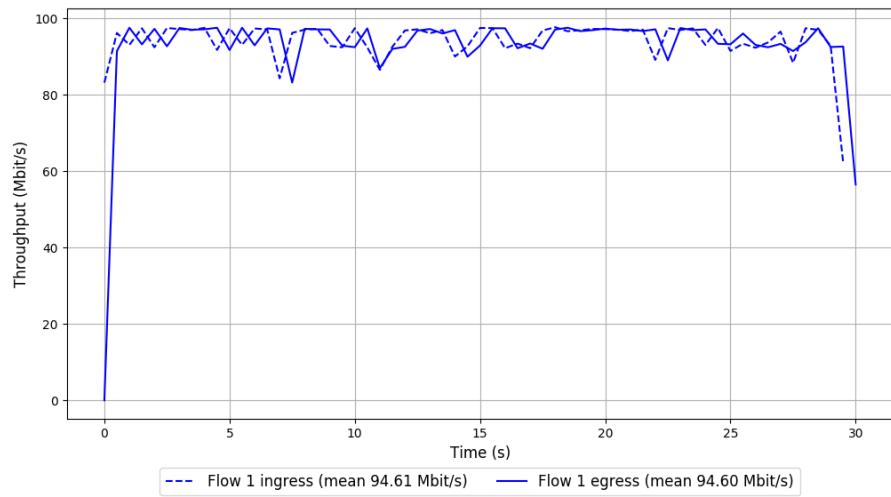


Run 5: Statistics of Indigo

```
Start at: 2018-06-19 03:09:54
End at: 2018-06-19 03:10:24
Local clock offset: -2.269 ms
Remote clock offset: 46.823 ms

# Below is generated by plot.py at 2018-06-19 04:50:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.60 Mbit/s
95th percentile per-packet one-way delay: -50.433 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.60 Mbit/s
95th percentile per-packet one-way delay: -50.433 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo — Data Link

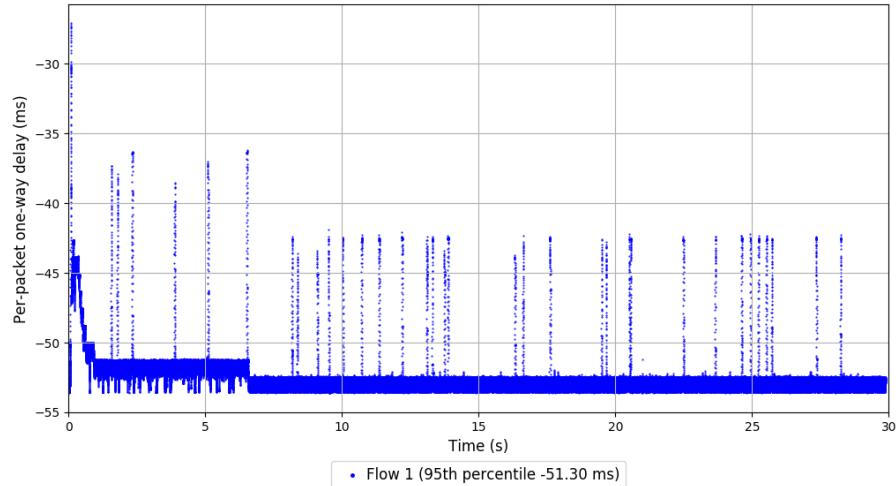
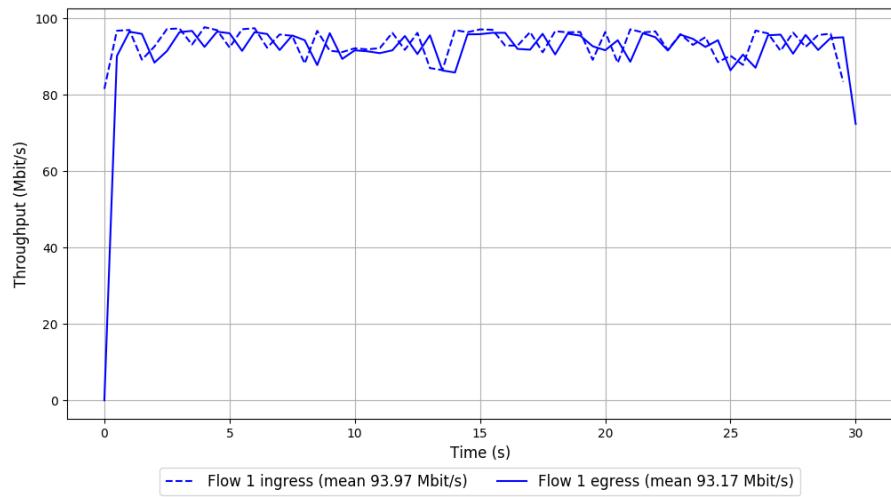


Run 6: Statistics of Indigo

```
Start at: 2018-06-19 03:27:40
End at: 2018-06-19 03:28:10
Local clock offset: -2.81 ms
Remote clock offset: 47.404 ms

# Below is generated by plot.py at 2018-06-19 04:50:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.17 Mbit/s
95th percentile per-packet one-way delay: -51.297 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 93.17 Mbit/s
95th percentile per-packet one-way delay: -51.297 ms
Loss rate: 0.86%
```

Run 6: Report of Indigo — Data Link

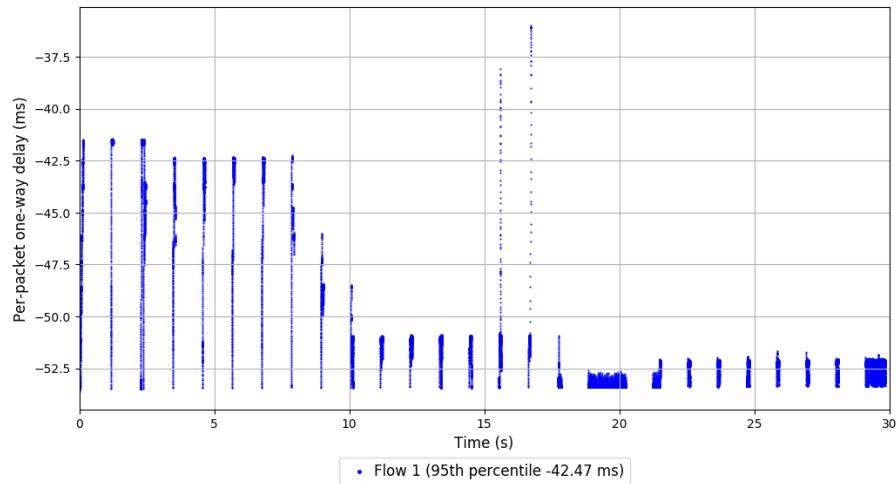
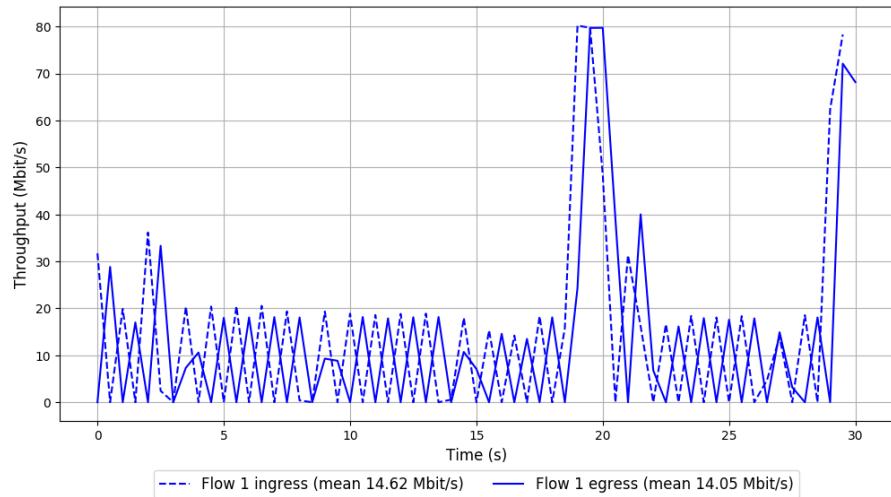


Run 7: Statistics of Indigo

```
Start at: 2018-06-19 03:45:34
End at: 2018-06-19 03:46:04
Local clock offset: -2.895 ms
Remote clock offset: 50.828 ms

# Below is generated by plot.py at 2018-06-19 04:50:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: -42.465 ms
Loss rate: 3.90%
-- Flow 1:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: -42.465 ms
Loss rate: 3.90%
```

## Run 7: Report of Indigo — Data Link

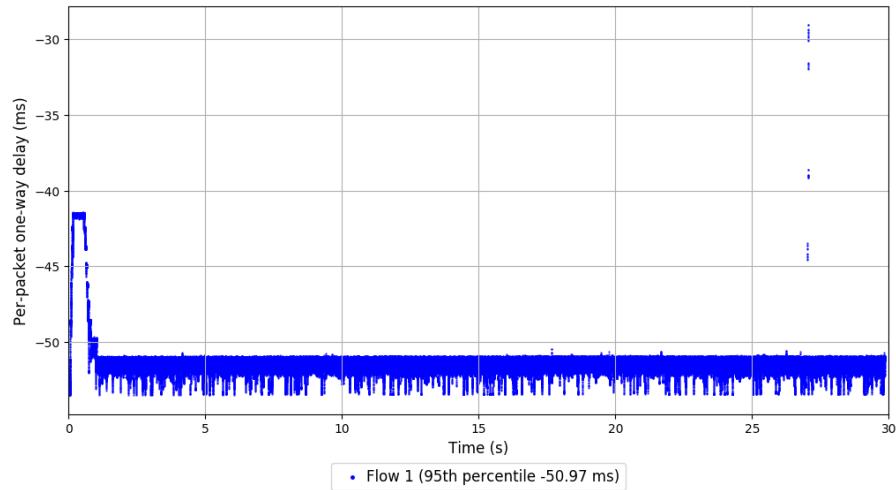
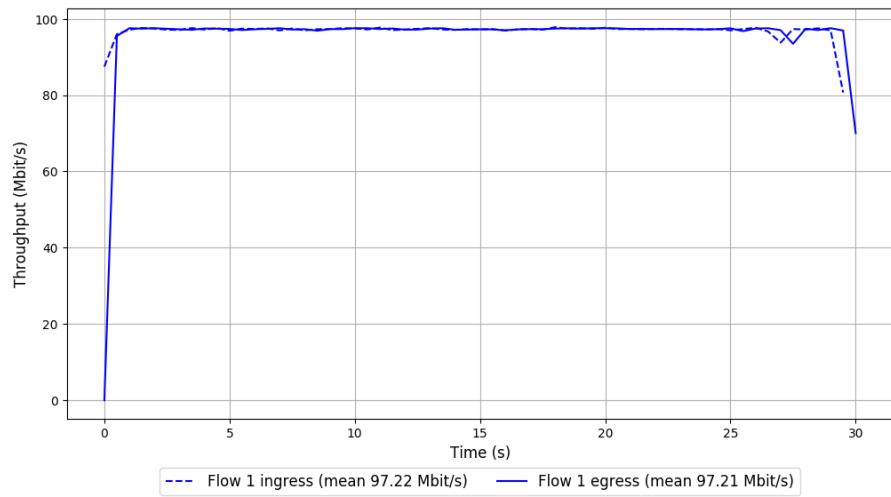


Run 8: Statistics of Indigo

```
Start at: 2018-06-19 04:03:17
End at: 2018-06-19 04:03:47
Local clock offset: -2.982 ms
Remote clock offset: 54.143 ms

# Below is generated by plot.py at 2018-06-19 04:51:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.21 Mbit/s
95th percentile per-packet one-way delay: -50.968 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.21 Mbit/s
95th percentile per-packet one-way delay: -50.968 ms
Loss rate: 0.01%
```

## Run 8: Report of Indigo — Data Link

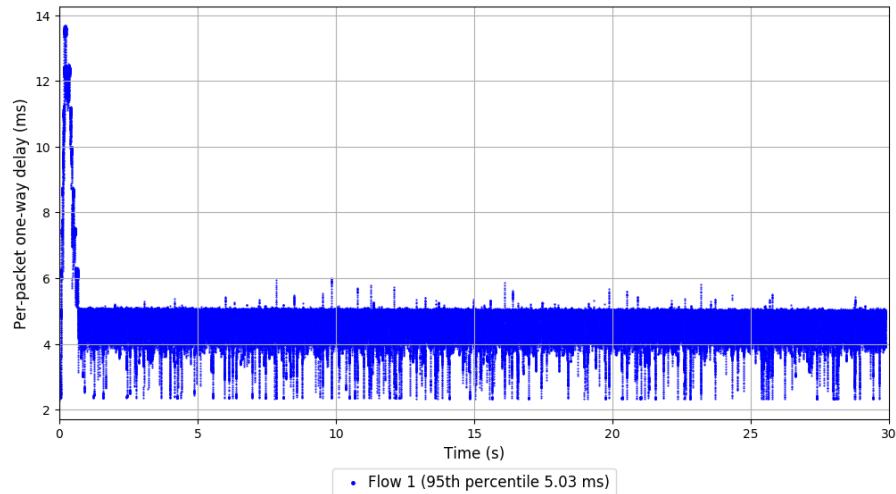
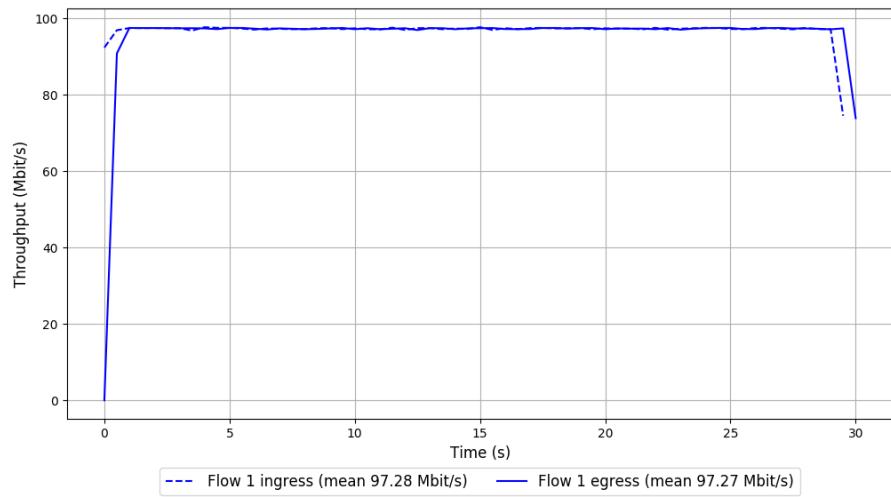


Run 9: Statistics of Indigo

```
Start at: 2018-06-19 04:21:10
End at: 2018-06-19 04:21:40
Local clock offset: -1.817 ms
Remote clock offset: -0.449 ms

# Below is generated by plot.py at 2018-06-19 04:51:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 5.029 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 5.029 ms
Loss rate: 0.02%
```

## Run 9: Report of Indigo — Data Link

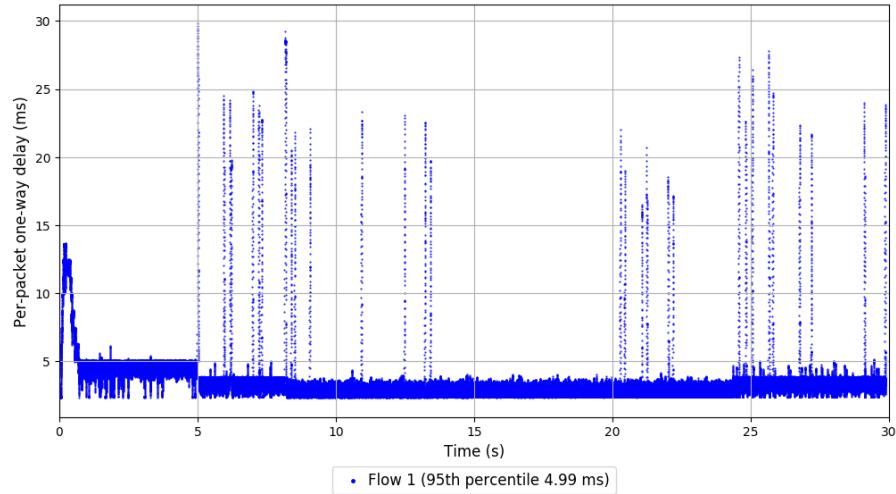
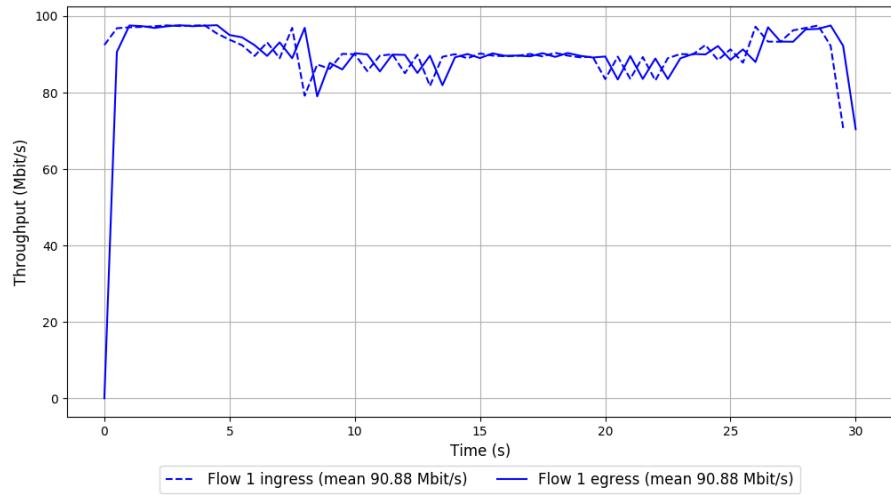


Run 10: Statistics of Indigo

```
Start at: 2018-06-19 04:39:05
End at: 2018-06-19 04:39:35
Local clock offset: -1.692 ms
Remote clock offset: -0.346 ms

# Below is generated by plot.py at 2018-06-19 04:51:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.88 Mbit/s
95th percentile per-packet one-way delay: 4.992 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.88 Mbit/s
95th percentile per-packet one-way delay: 4.992 ms
Loss rate: 0.02%
```

### Run 10: Report of Indigo — Data Link

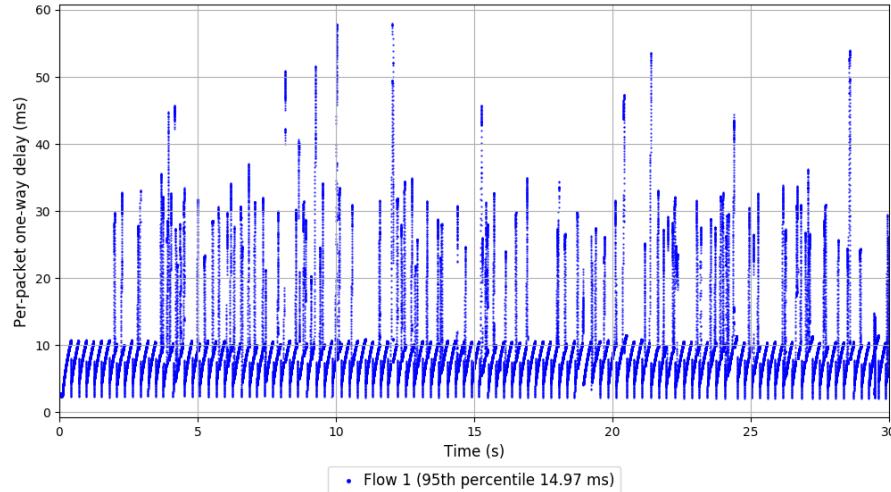
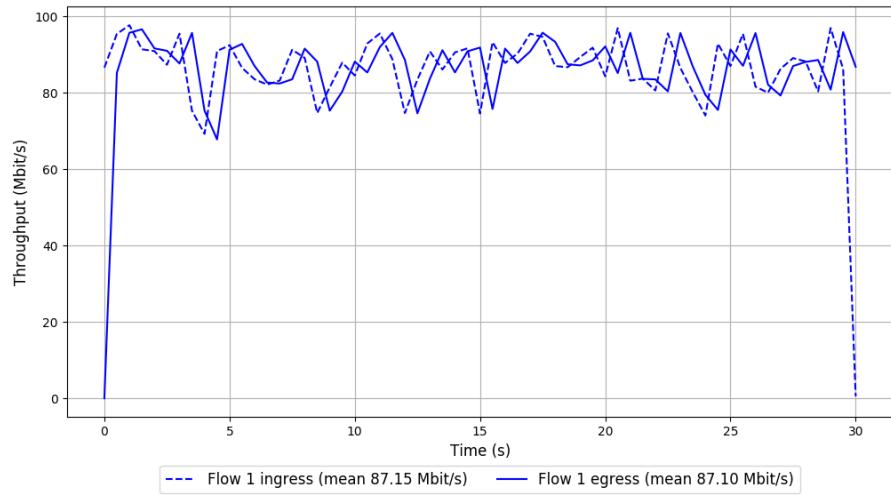


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-19 01:55:06
End at: 2018-06-19 01:55:36
Local clock offset: -1.859 ms
Remote clock offset: -1.371 ms

# Below is generated by plot.py at 2018-06-19 04:51:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 14.972 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 14.972 ms
Loss rate: 0.08%
```

Run 1: Report of LEDBAT — Data Link

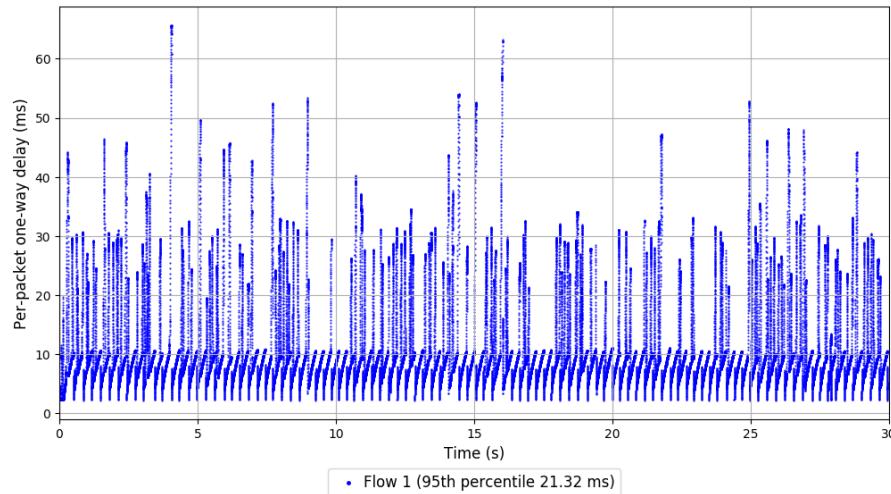
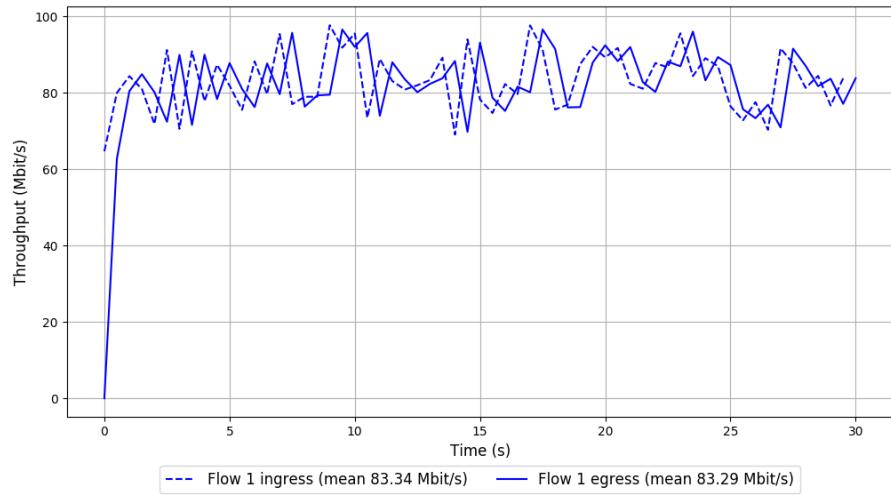


Run 2: Statistics of LEDBAT

```
Start at: 2018-06-19 02:12:57
End at: 2018-06-19 02:13:27
Local clock offset: -2.379 ms
Remote clock offset: -7.807 ms

# Below is generated by plot.py at 2018-06-19 04:51:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.29 Mbit/s
95th percentile per-packet one-way delay: 21.315 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 83.29 Mbit/s
95th percentile per-packet one-way delay: 21.315 ms
Loss rate: 0.08%
```

## Run 2: Report of LEDBAT — Data Link

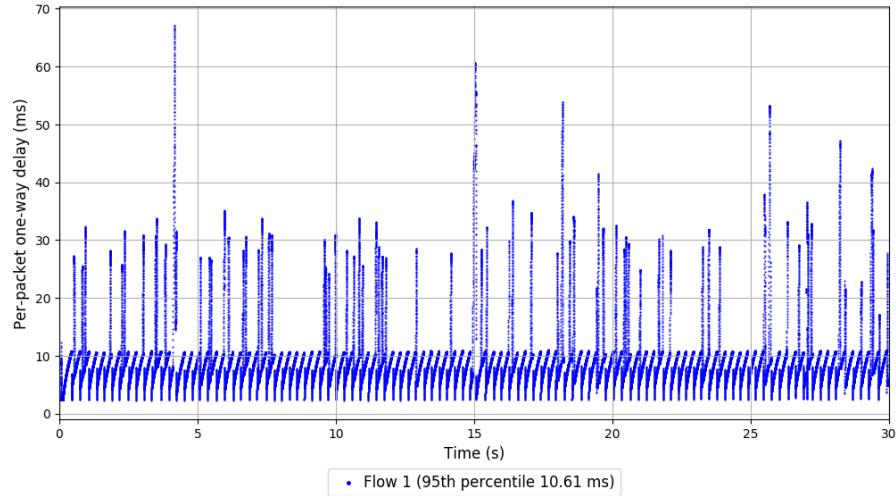
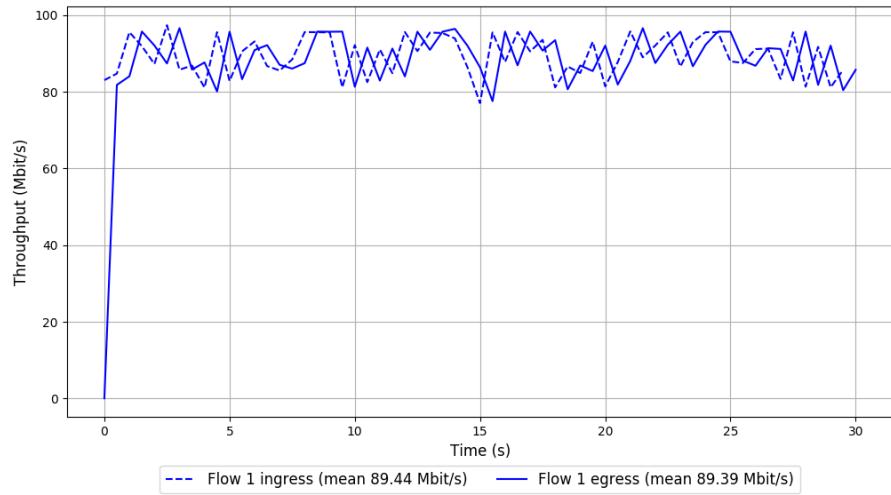


Run 3: Statistics of LEDBAT

```
Start at: 2018-06-19 02:30:49
End at: 2018-06-19 02:31:19
Local clock offset: -2.76 ms
Remote clock offset: -9.347 ms

# Below is generated by plot.py at 2018-06-19 04:51:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.39 Mbit/s
95th percentile per-packet one-way delay: 10.610 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 89.39 Mbit/s
95th percentile per-packet one-way delay: 10.610 ms
Loss rate: 0.08%
```

Run 3: Report of LEDBAT — Data Link

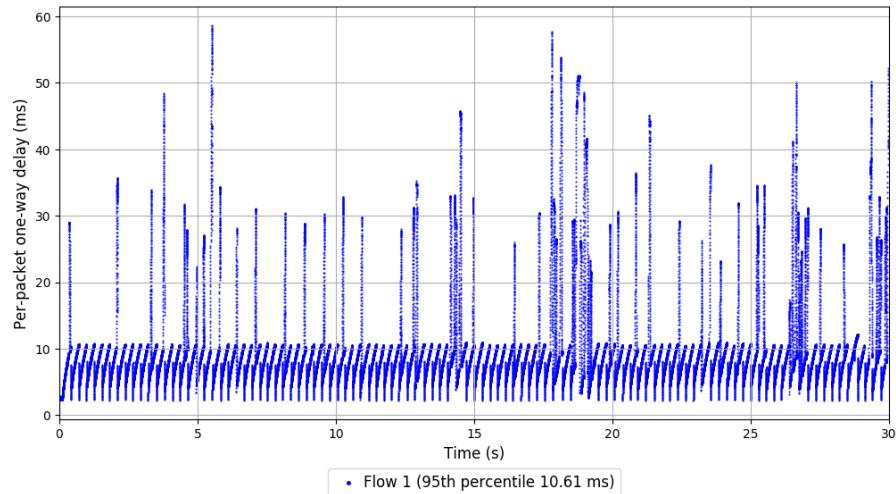
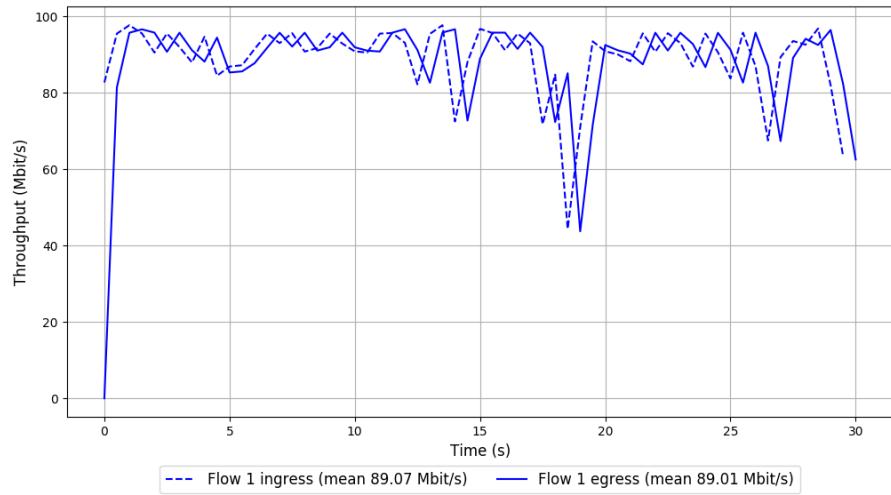


Run 4: Statistics of LEDBAT

```
Start at: 2018-06-19 02:48:40
End at: 2018-06-19 02:49:10
Local clock offset: -2.065 ms
Remote clock offset: -7.819 ms

# Below is generated by plot.py at 2018-06-19 04:51:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.01 Mbit/s
95th percentile per-packet one-way delay: 10.605 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 89.01 Mbit/s
95th percentile per-packet one-way delay: 10.605 ms
Loss rate: 0.08%
```

## Run 4: Report of LEDBAT — Data Link

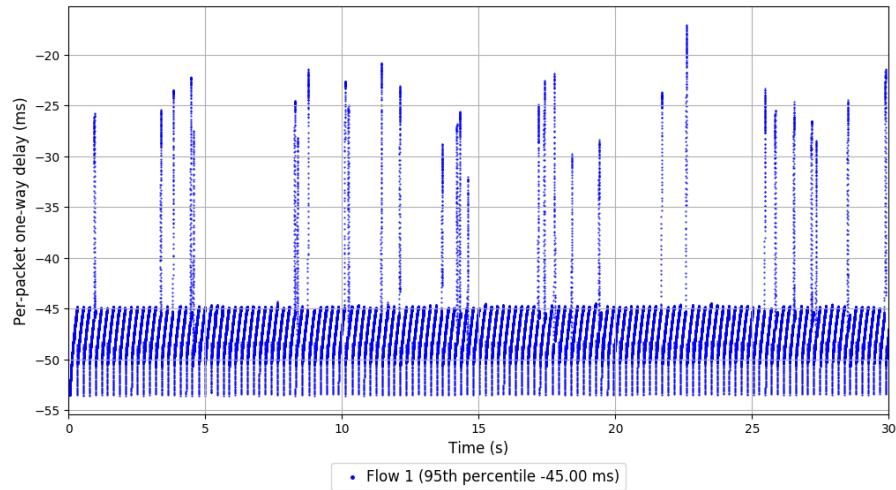
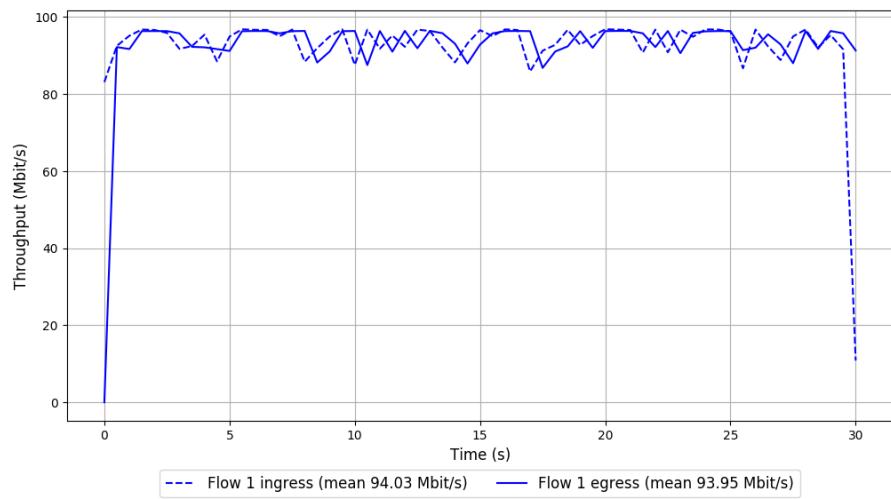


Run 5: Statistics of LEDBAT

```
Start at: 2018-06-19 03:06:31
End at: 2018-06-19 03:07:01
Local clock offset: -2.005 ms
Remote clock offset: 46.466 ms

# Below is generated by plot.py at 2018-06-19 04:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: -44.998 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: -44.998 ms
Loss rate: 0.08%
```

Run 5: Report of LEDBAT — Data Link

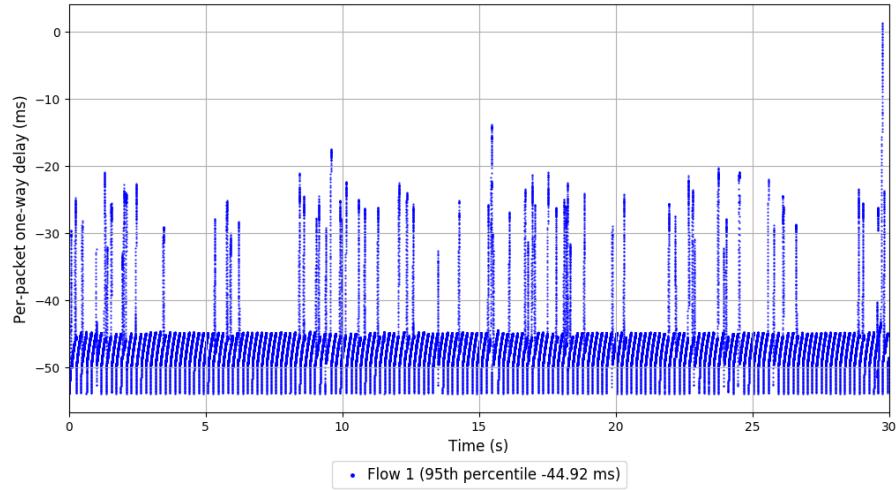
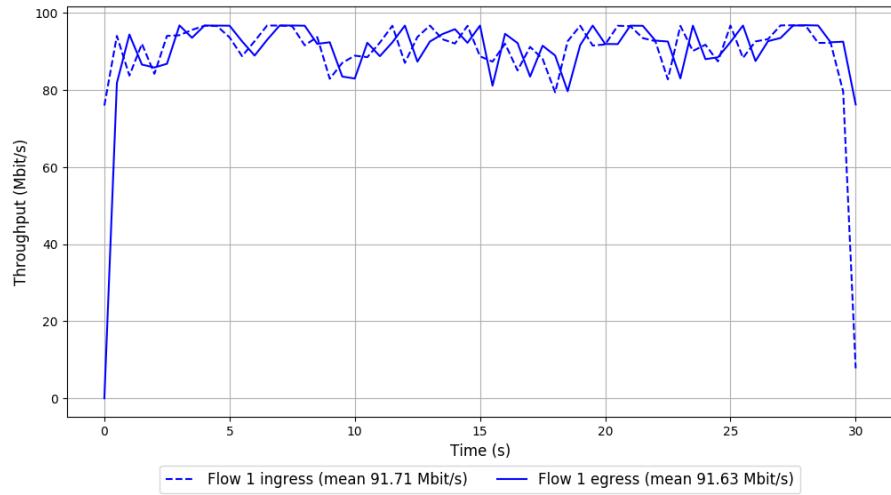


Run 6: Statistics of LEDBAT

```
Start at: 2018-06-19 03:24:17
End at: 2018-06-19 03:24:47
Local clock offset: -2.751 ms
Remote clock offset: 47.6 ms

# Below is generated by plot.py at 2018-06-19 04:52:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.63 Mbit/s
95th percentile per-packet one-way delay: -44.919 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.63 Mbit/s
95th percentile per-packet one-way delay: -44.919 ms
Loss rate: 0.09%
```

Run 6: Report of LEDBAT — Data Link

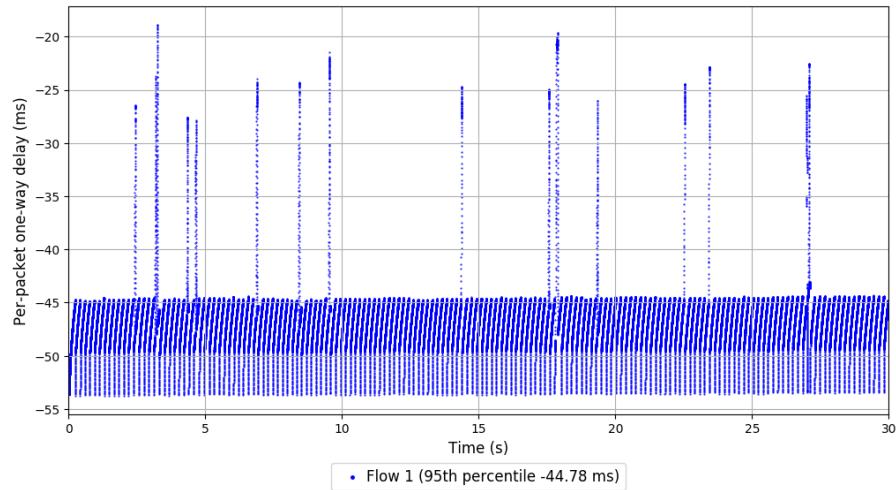
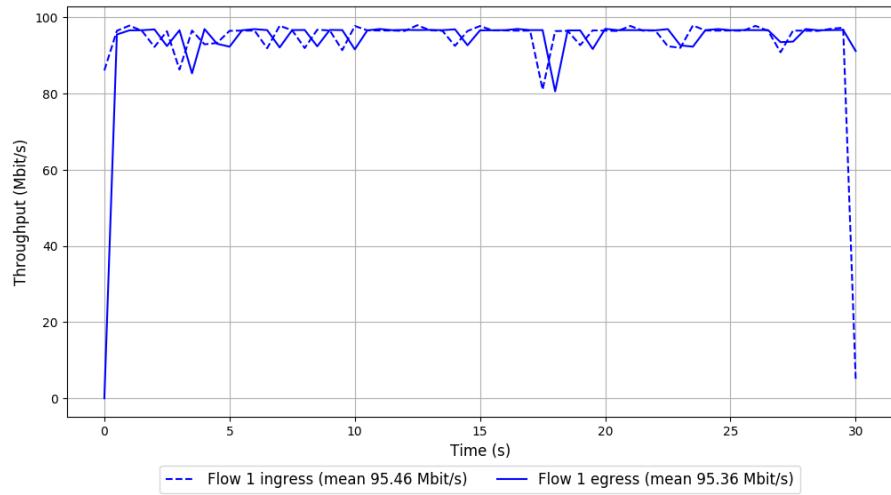


Run 7: Statistics of LEDBAT

```
Start at: 2018-06-19 03:42:11
End at: 2018-06-19 03:42:41
Local clock offset: -2.95 ms
Remote clock offset: 49.744 ms

# Below is generated by plot.py at 2018-06-19 04:52:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: -44.784 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: -44.784 ms
Loss rate: 0.10%
```

## Run 7: Report of LEDBAT — Data Link

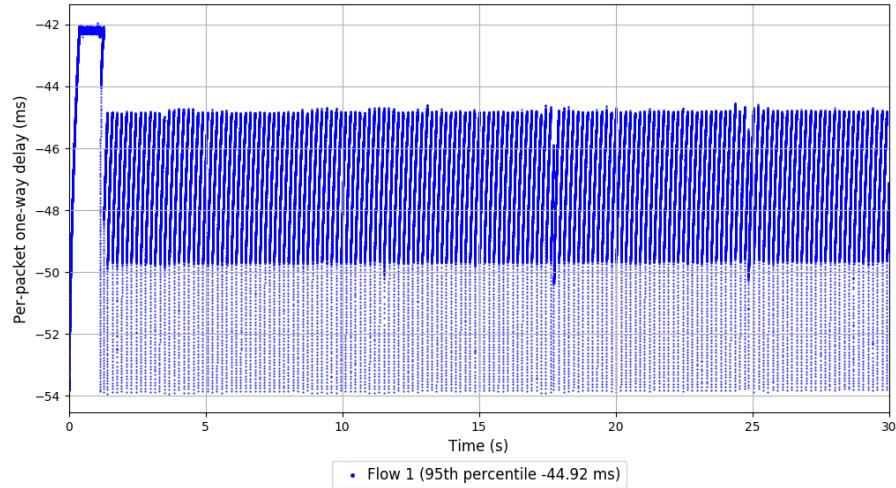
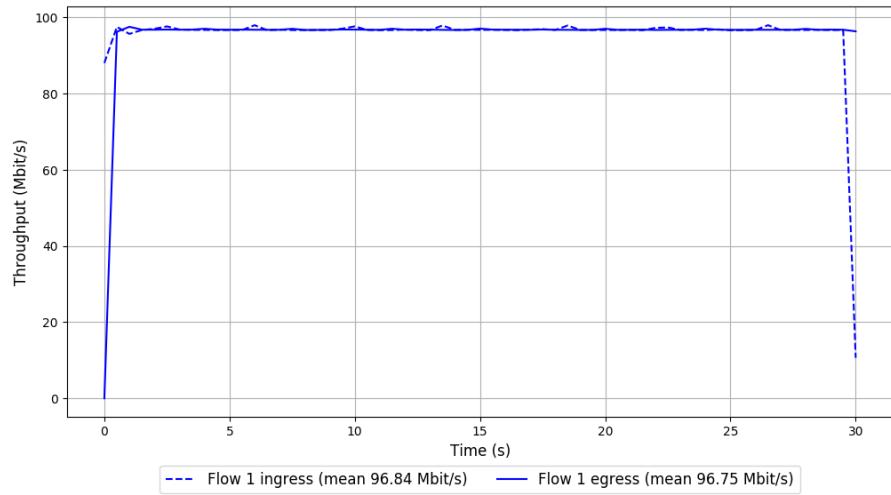


Run 8: Statistics of LEDBAT

```
Start at: 2018-06-19 03:59:53
End at: 2018-06-19 04:00:23
Local clock offset: -2.979 ms
Remote clock offset: 54.037 ms

# Below is generated by plot.py at 2018-06-19 04:52:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.75 Mbit/s
95th percentile per-packet one-way delay: -44.921 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.75 Mbit/s
95th percentile per-packet one-way delay: -44.921 ms
Loss rate: 0.09%
```

Run 8: Report of LEDBAT — Data Link

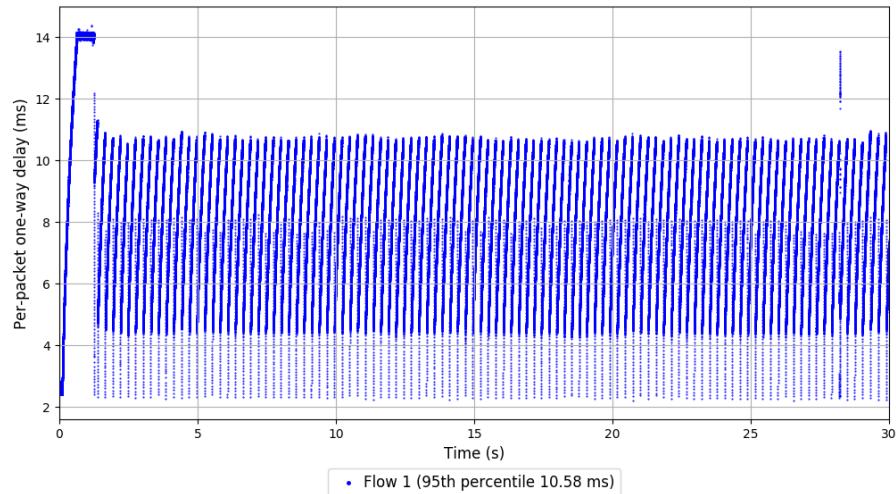
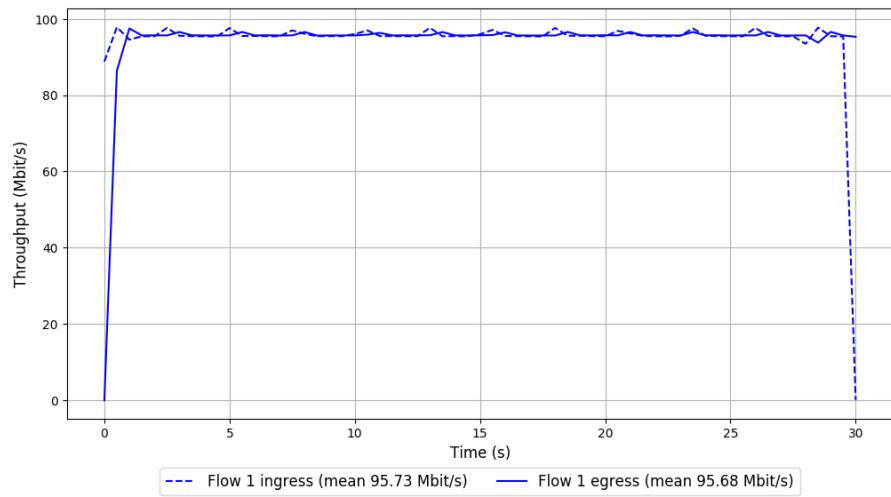


Run 9: Statistics of LEDBAT

```
Start at: 2018-06-19 04:17:47
End at: 2018-06-19 04:18:17
Local clock offset: -1.932 ms
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2018-06-19 04:52:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 10.578 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 10.578 ms
Loss rate: 0.08%
```

Run 9: Report of LEDBAT — Data Link

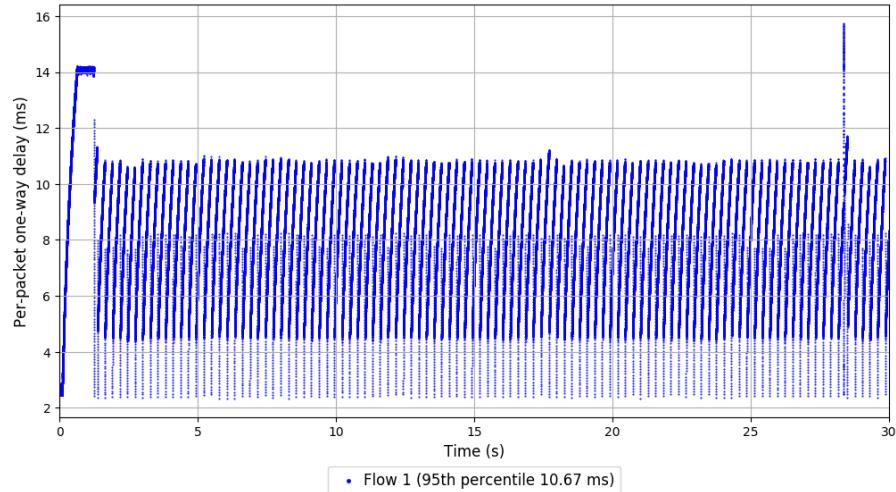
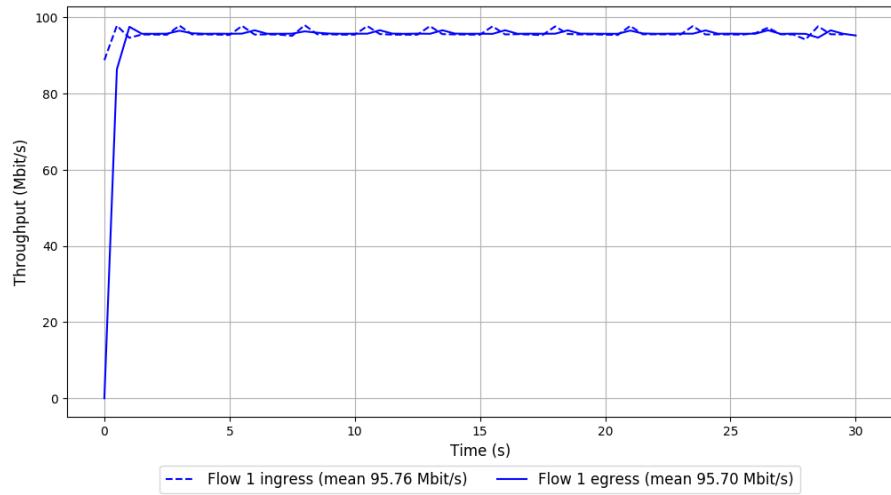


Run 10: Statistics of LEDBAT

```
Start at: 2018-06-19 04:35:43
End at: 2018-06-19 04:36:13
Local clock offset: -1.62 ms
Remote clock offset: -0.562 ms

# Below is generated by plot.py at 2018-06-19 04:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 10.672 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 10.672 ms
Loss rate: 0.08%
```

## Run 10: Report of LEDBAT — Data Link

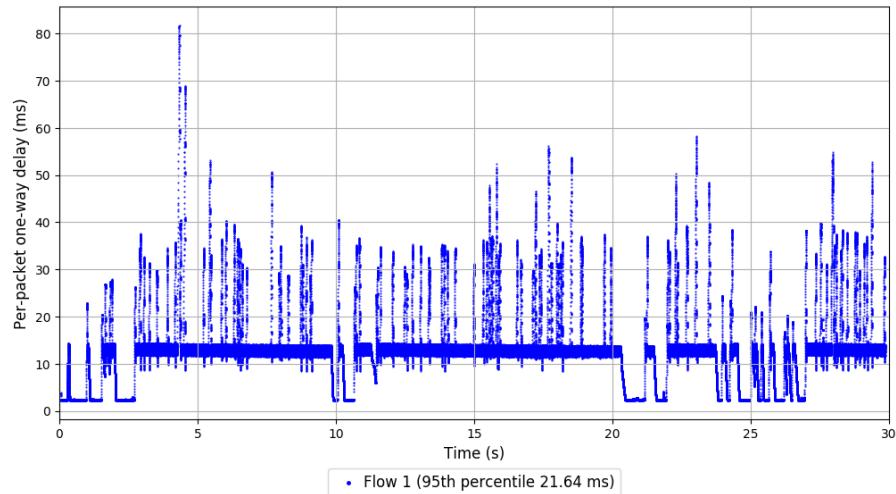
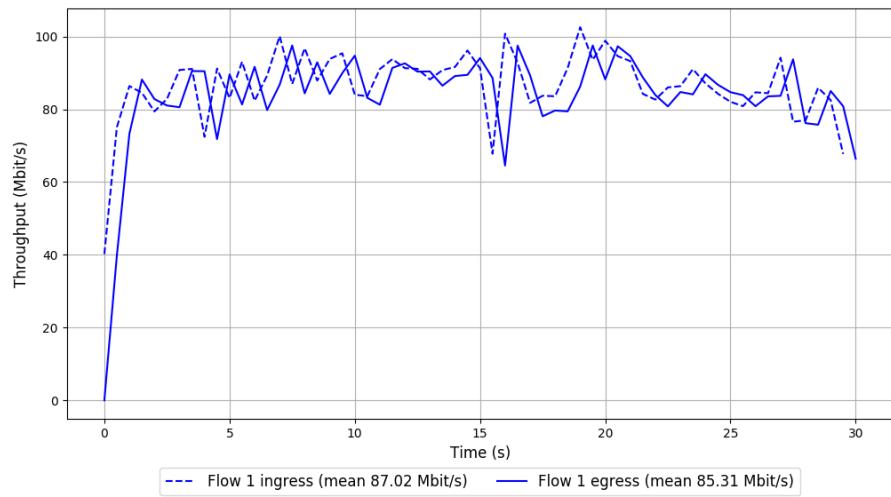


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-06-19 01:49:35
End at: 2018-06-19 01:50:05
Local clock offset: -1.891 ms
Remote clock offset: -1.446 ms

# Below is generated by plot.py at 2018-06-19 04:52:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.31 Mbit/s
95th percentile per-packet one-way delay: 21.638 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 85.31 Mbit/s
95th percentile per-packet one-way delay: 21.638 ms
Loss rate: 2.00%
```

Run 1: Report of PCC-Allegro — Data Link

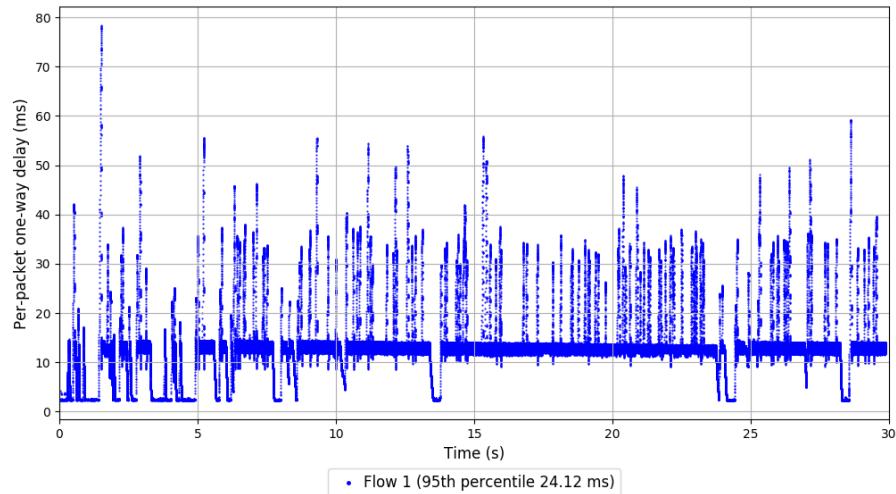
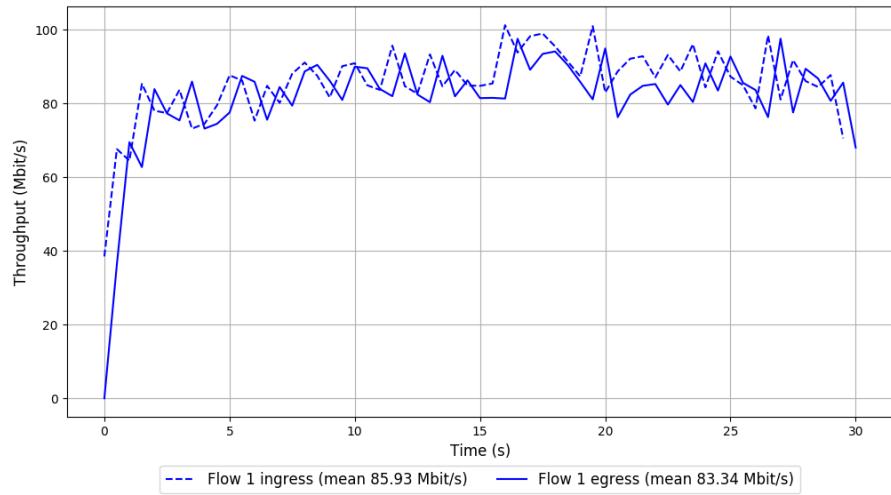


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-06-19 02:07:26
End at: 2018-06-19 02:07:56
Local clock offset: -2.101 ms
Remote clock offset: -6.673 ms

# Below is generated by plot.py at 2018-06-19 04:52:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.34 Mbit/s
95th percentile per-packet one-way delay: 24.120 ms
Loss rate: 3.05%
-- Flow 1:
Average throughput: 83.34 Mbit/s
95th percentile per-packet one-way delay: 24.120 ms
Loss rate: 3.05%
```

Run 2: Report of PCC-Allegro — Data Link

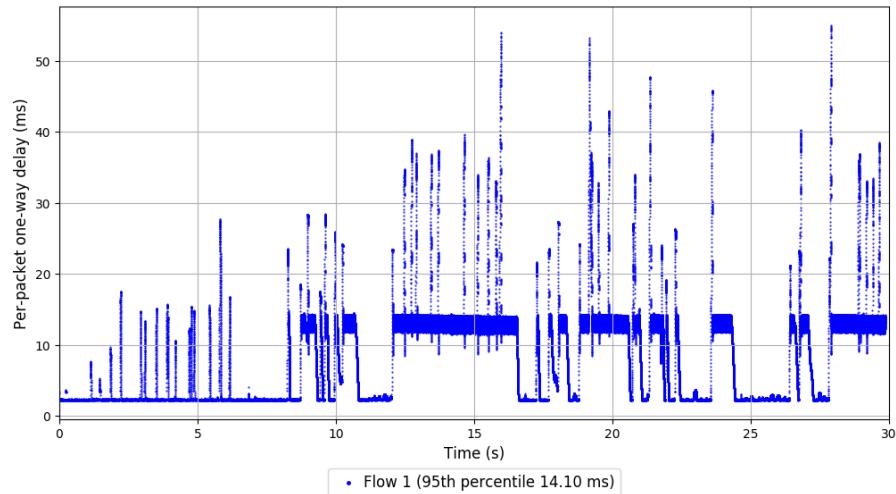
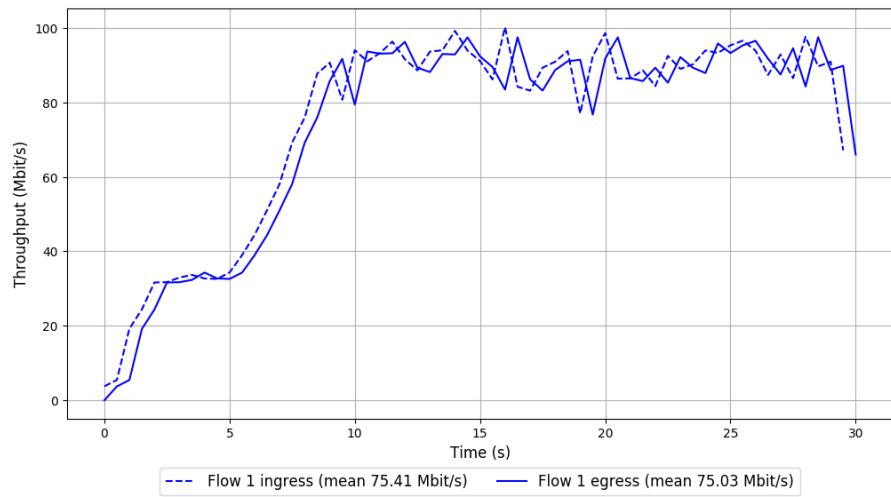


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-06-19 02:25:17
End at: 2018-06-19 02:25:47
Local clock offset: -2.694 ms
Remote clock offset: -9.357 ms

# Below is generated by plot.py at 2018-06-19 04:52:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.03 Mbit/s
95th percentile per-packet one-way delay: 14.096 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 75.03 Mbit/s
95th percentile per-packet one-way delay: 14.096 ms
Loss rate: 0.53%
```

Run 3: Report of PCC-Allegro — Data Link

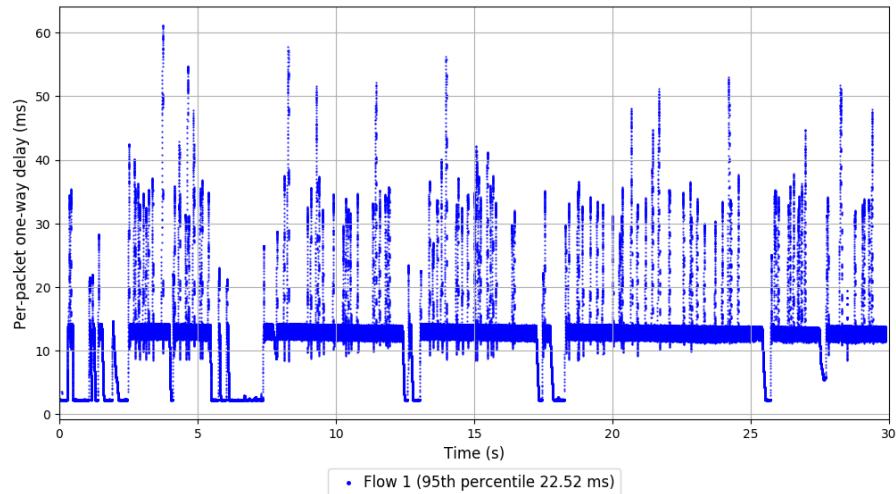
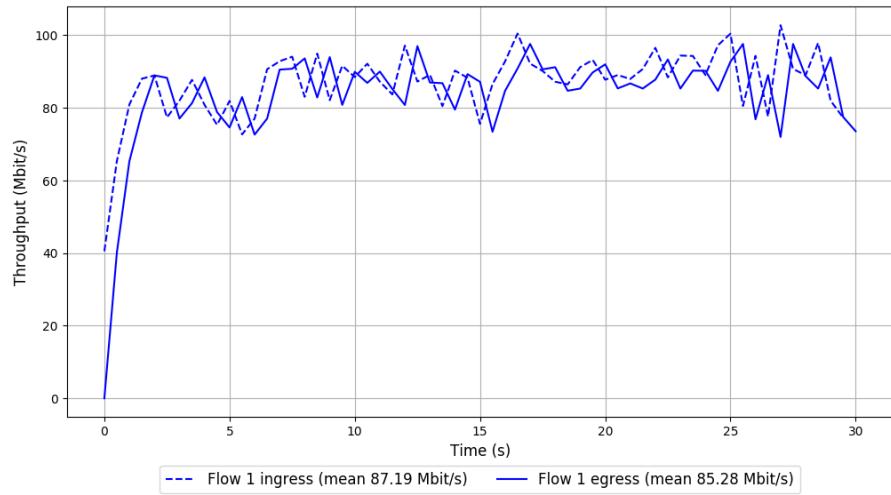


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-06-19 02:43:09
End at: 2018-06-19 02:43:39
Local clock offset: -2.162 ms
Remote clock offset: -7.793 ms

# Below is generated by plot.py at 2018-06-19 04:53:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.28 Mbit/s
95th percentile per-packet one-way delay: 22.522 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 85.28 Mbit/s
95th percentile per-packet one-way delay: 22.522 ms
Loss rate: 2.21%
```

Run 4: Report of PCC-Allegro — Data Link

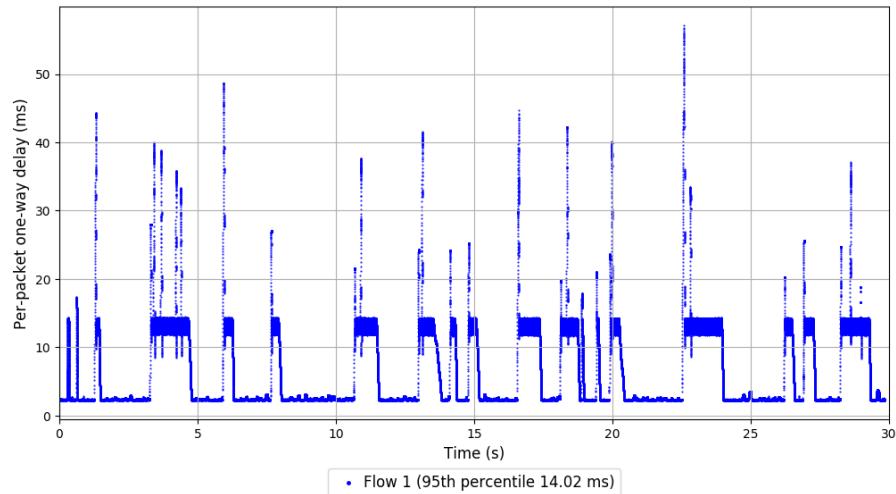
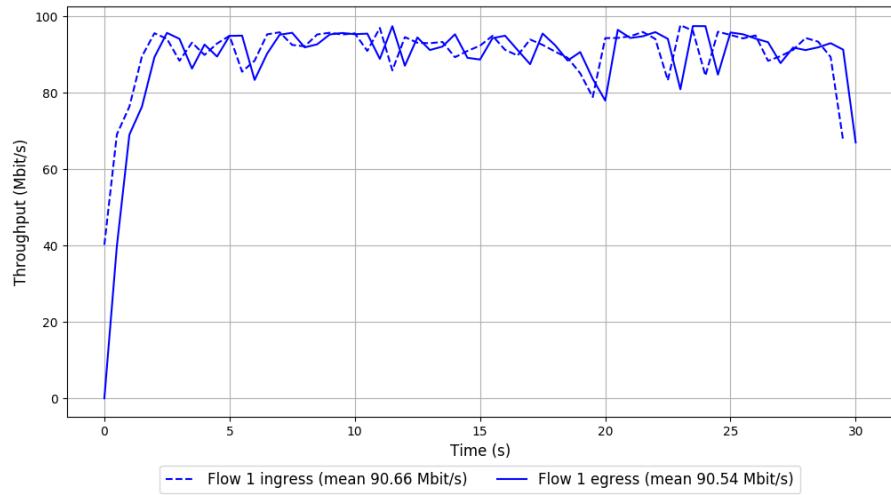


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-06-19 03:00:59
End at: 2018-06-19 03:01:29
Local clock offset: -1.801 ms
Remote clock offset: -8.05 ms

# Below is generated by plot.py at 2018-06-19 04:53:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.54 Mbit/s
95th percentile per-packet one-way delay: 14.022 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 90.54 Mbit/s
95th percentile per-packet one-way delay: 14.022 ms
Loss rate: 0.16%
```

Run 5: Report of PCC-Allegro — Data Link

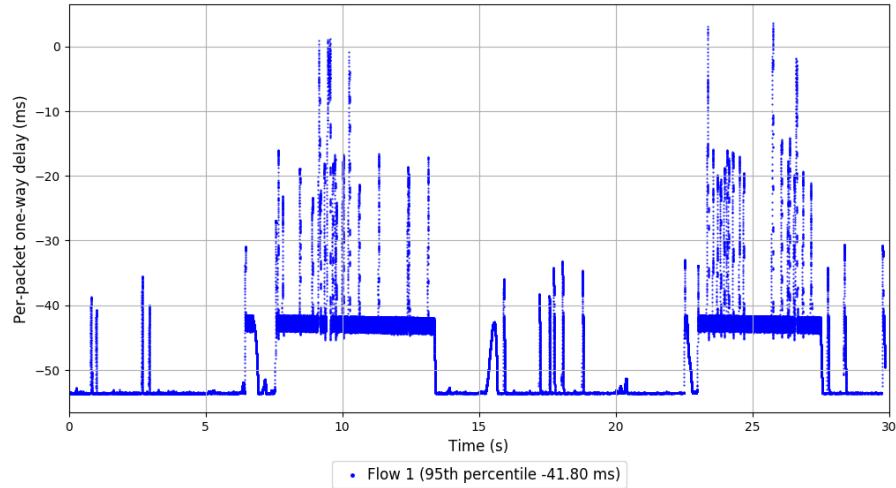
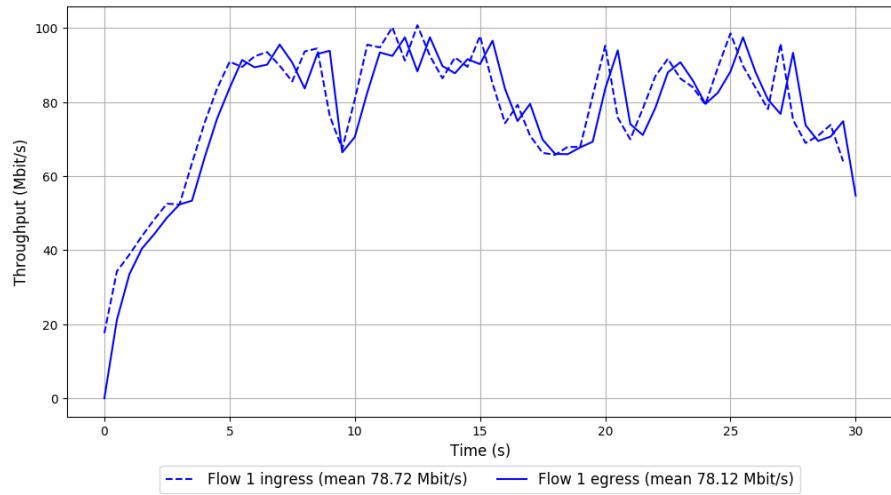


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-06-19 03:18:51
End at: 2018-06-19 03:19:21
Local clock offset: -2.646 ms
Remote clock offset: 47.21 ms

# Below is generated by plot.py at 2018-06-19 04:53:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.12 Mbit/s
95th percentile per-packet one-way delay: -41.799 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 78.12 Mbit/s
95th percentile per-packet one-way delay: -41.799 ms
Loss rate: 0.76%
```

Run 6: Report of PCC-Allegro — Data Link

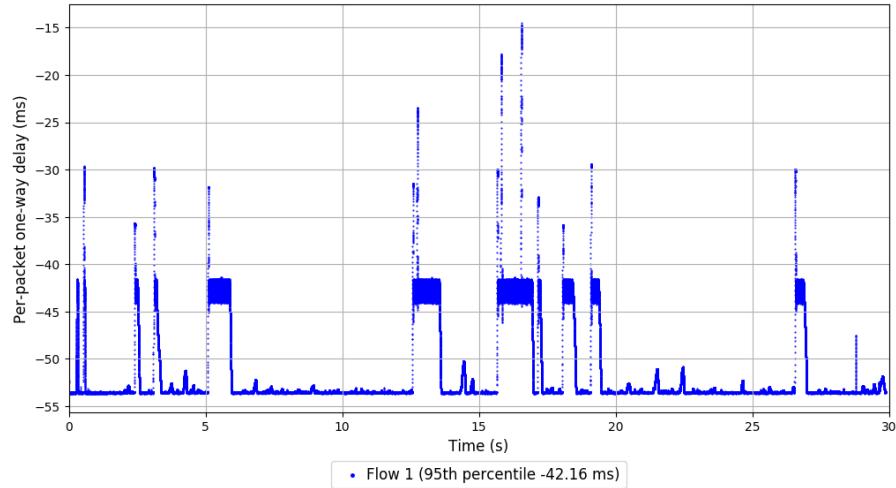
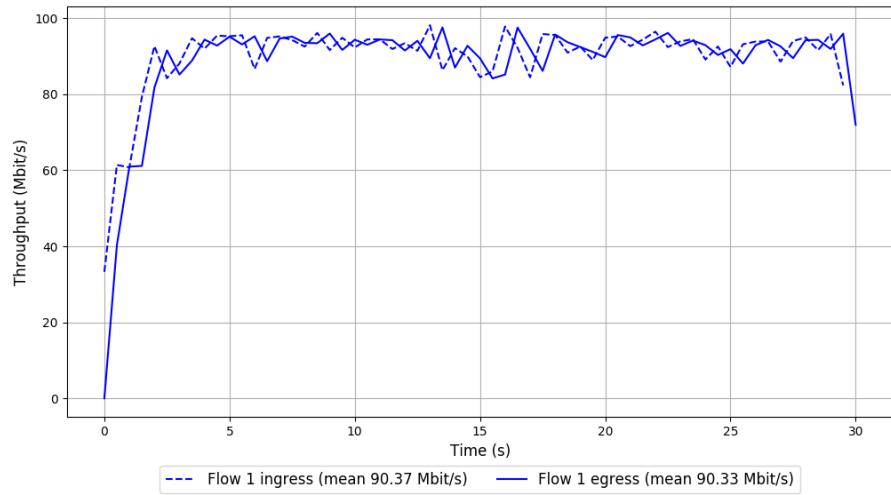


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-06-19 03:36:36
End at: 2018-06-19 03:37:06
Local clock offset: -2.893 ms
Remote clock offset: 47.055 ms

# Below is generated by plot.py at 2018-06-19 04:53:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.33 Mbit/s
95th percentile per-packet one-way delay: -42.157 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 90.33 Mbit/s
95th percentile per-packet one-way delay: -42.157 ms
Loss rate: 0.06%
```

Run 7: Report of PCC-Allegro — Data Link

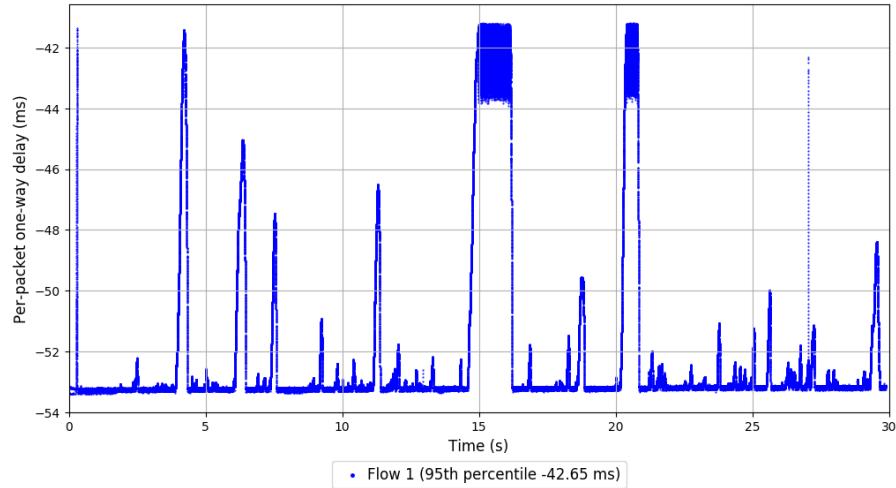
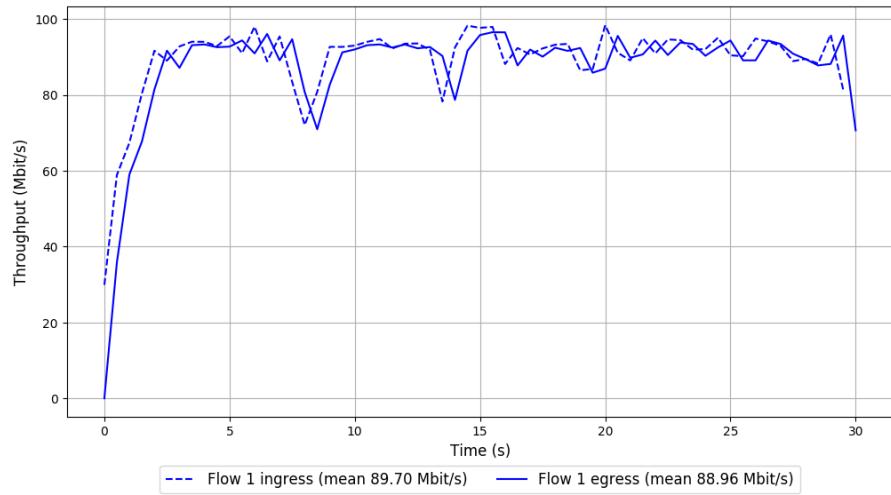


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-06-19 03:54:23
End at: 2018-06-19 03:54:53
Local clock offset: -2.936 ms
Remote clock offset: 52.853 ms

# Below is generated by plot.py at 2018-06-19 04:53:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.96 Mbit/s
95th percentile per-packet one-way delay: -42.653 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 88.96 Mbit/s
95th percentile per-packet one-way delay: -42.653 ms
Loss rate: 0.84%
```

Run 8: Report of PCC-Allegro — Data Link

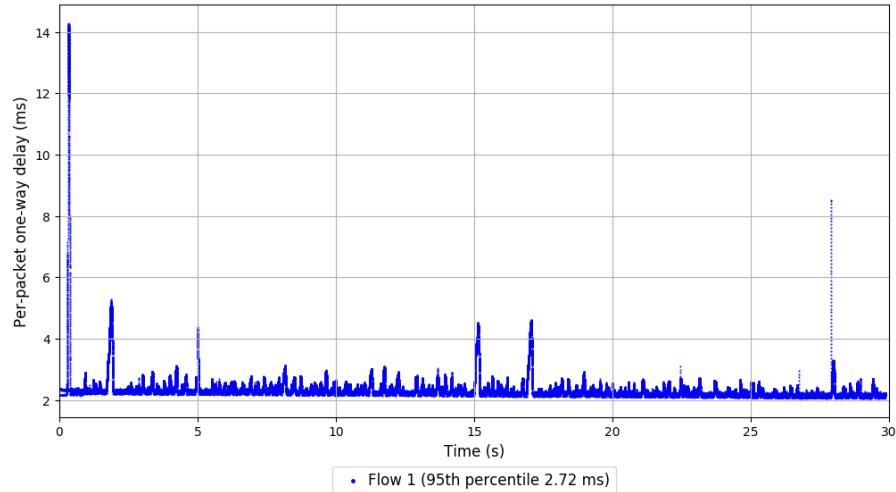
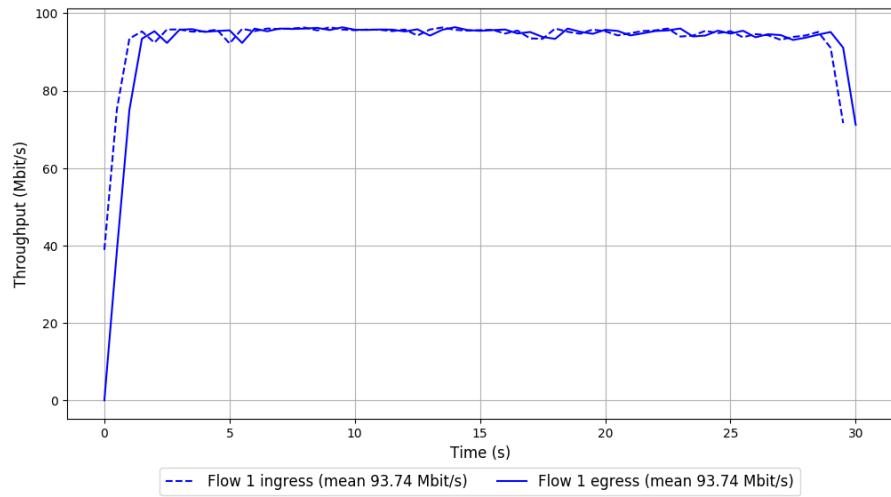


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-06-19 04:12:14
End at: 2018-06-19 04:12:44
Local clock offset: -2.193 ms
Remote clock offset: 0.852 ms

# Below is generated by plot.py at 2018-06-19 04:53:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 2.717 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 2.717 ms
Loss rate: 0.02%
```

Run 9: Report of PCC-Allegro — Data Link

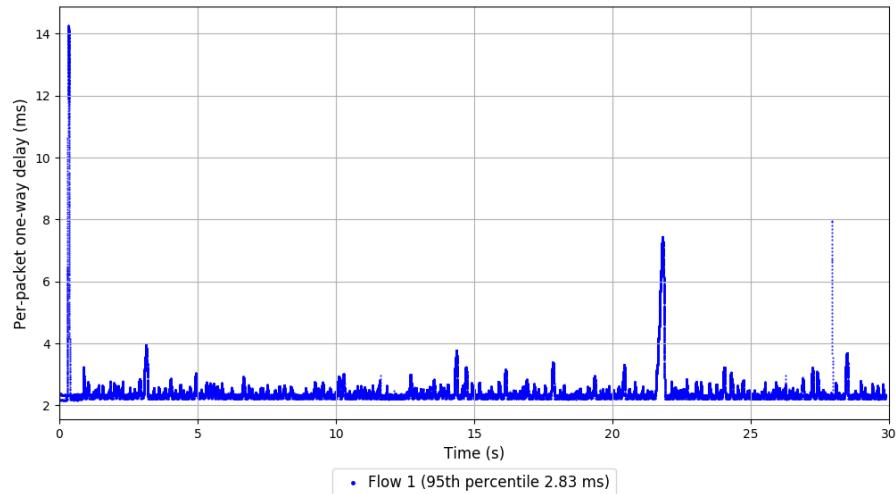
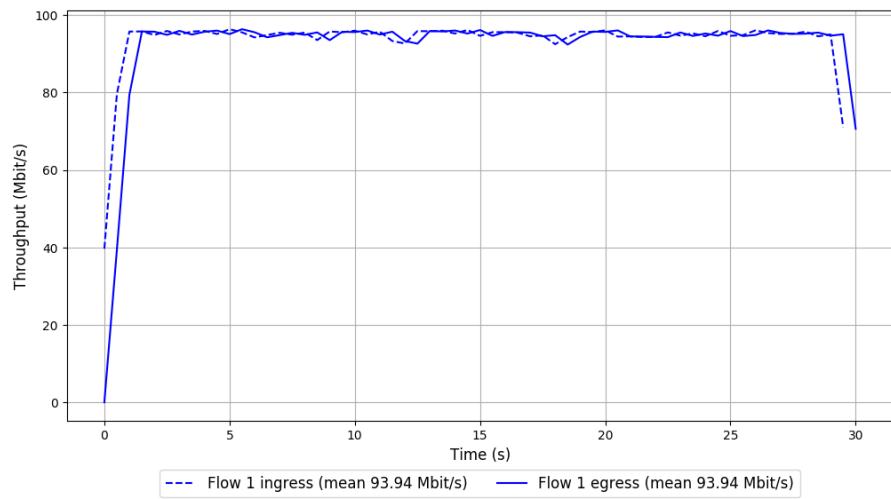


Run 10: Statistics of PCC-Allegro

```
Start at: 2018-06-19 04:30:10
End at: 2018-06-19 04:30:40
Local clock offset: -1.681 ms
Remote clock offset: -0.612 ms

# Below is generated by plot.py at 2018-06-19 04:53:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 2.831 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 2.831 ms
Loss rate: 0.02%
```

Run 10: Report of PCC-Allegro — Data Link

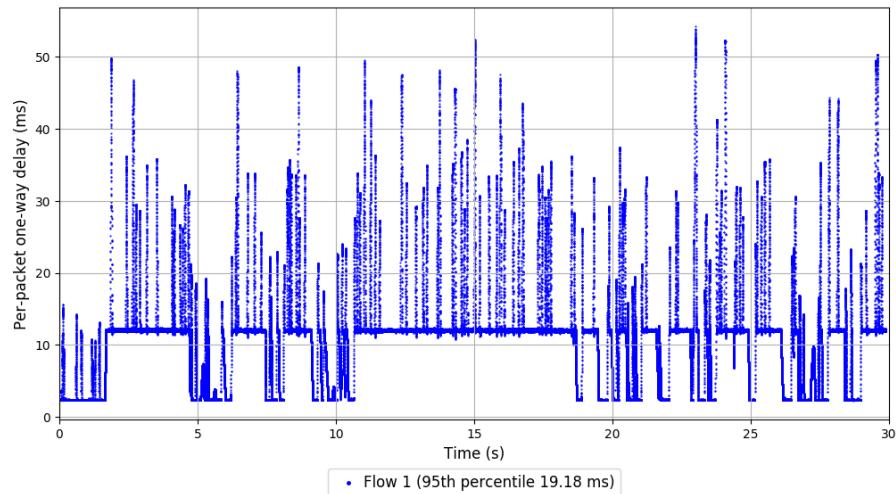
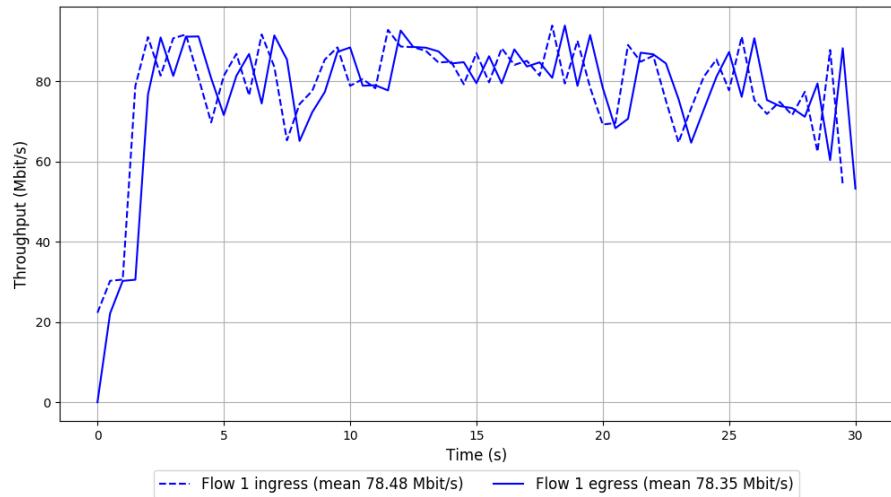


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-19 01:41:45
End at: 2018-06-19 01:42:15
Local clock offset: -1.868 ms
Remote clock offset: -1.601 ms

# Below is generated by plot.py at 2018-06-19 04:54:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.35 Mbit/s
95th percentile per-packet one-way delay: 19.181 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 78.35 Mbit/s
95th percentile per-packet one-way delay: 19.181 ms
Loss rate: 0.19%
```

Run 1: Report of PCC-Expr — Data Link

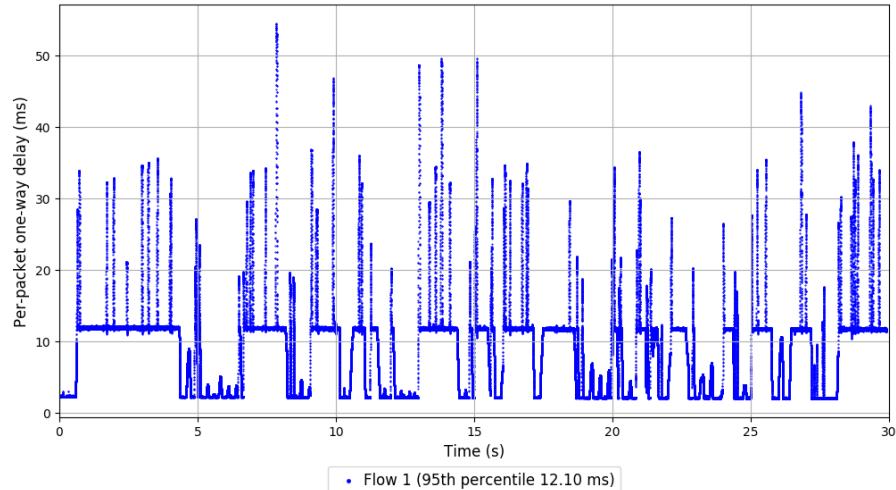
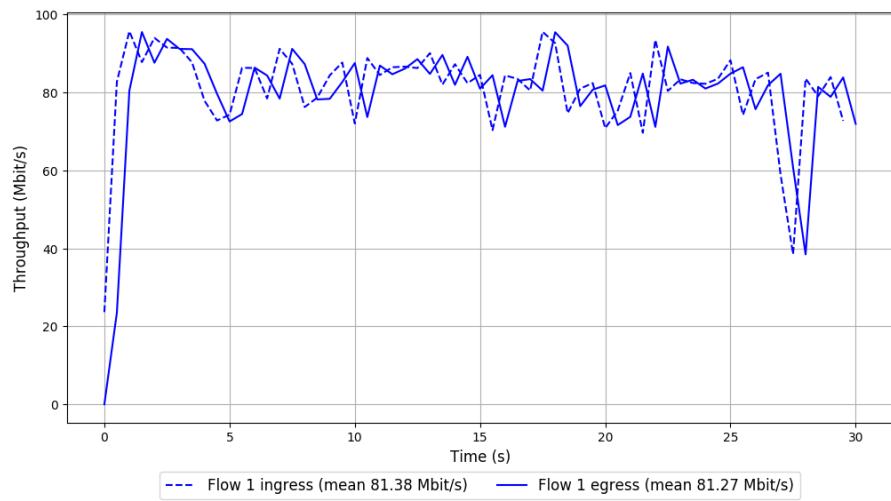


Run 2: Statistics of PCC-Expr

```
Start at: 2018-06-19 01:59:36
End at: 2018-06-19 02:00:06
Local clock offset: -1.839 ms
Remote clock offset: -3.947 ms

# Below is generated by plot.py at 2018-06-19 04:55:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.27 Mbit/s
95th percentile per-packet one-way delay: 12.099 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 81.27 Mbit/s
95th percentile per-packet one-way delay: 12.099 ms
Loss rate: 0.17%
```

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

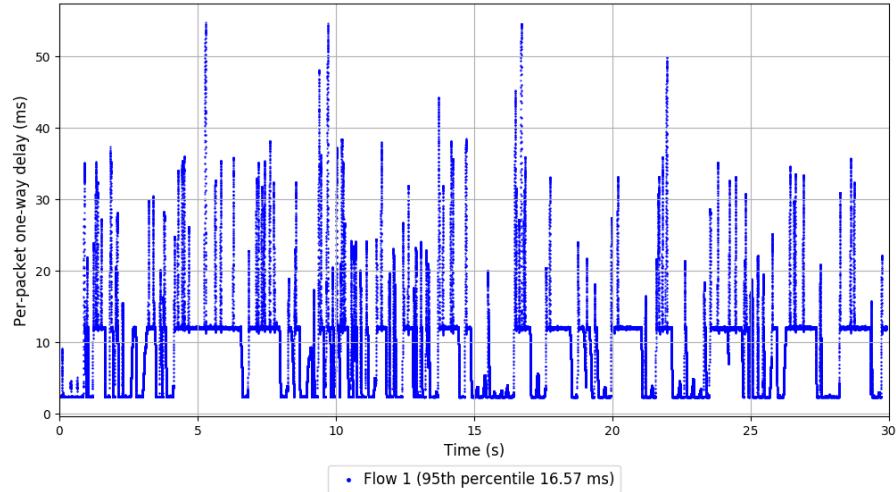
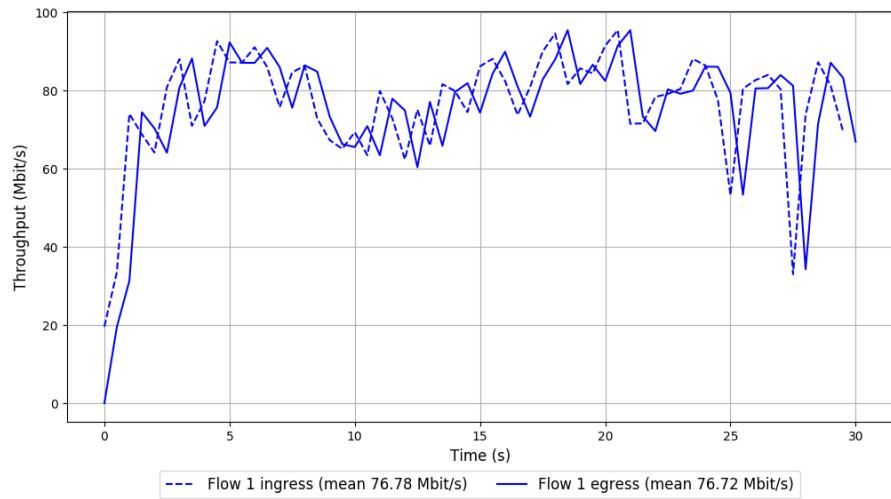


Run 3: Statistics of PCC-Expr

```
Start at: 2018-06-19 02:17:27
End at: 2018-06-19 02:17:57
Local clock offset: -2.543 ms
Remote clock offset: -8.505 ms

# Below is generated by plot.py at 2018-06-19 04:55:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.72 Mbit/s
95th percentile per-packet one-way delay: 16.575 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 76.72 Mbit/s
95th percentile per-packet one-way delay: 16.575 ms
Loss rate: 0.11%
```

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

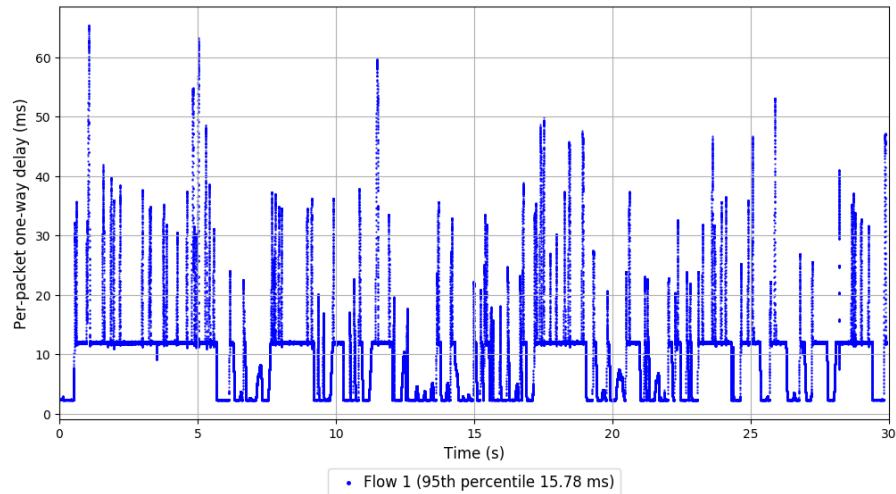
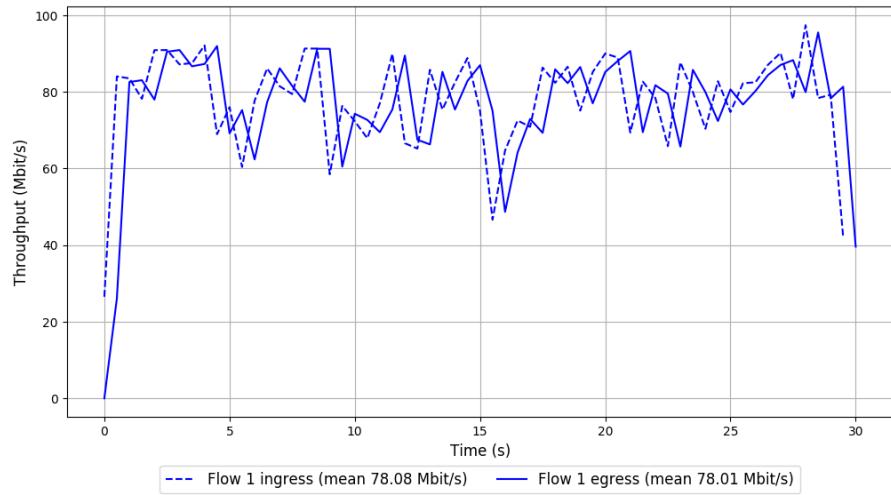


Run 4: Statistics of PCC-Expr

```
Start at: 2018-06-19 02:35:19
End at: 2018-06-19 02:35:49
Local clock offset: -2.667 ms
Remote clock offset: -8.425 ms

# Below is generated by plot.py at 2018-06-19 04:55:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.01 Mbit/s
95th percentile per-packet one-way delay: 15.782 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 78.01 Mbit/s
95th percentile per-packet one-way delay: 15.782 ms
Loss rate: 0.13%
```

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

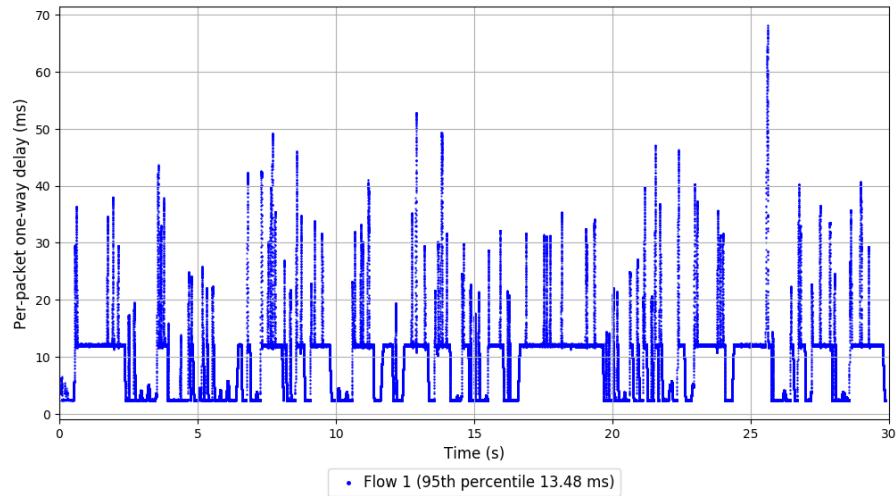
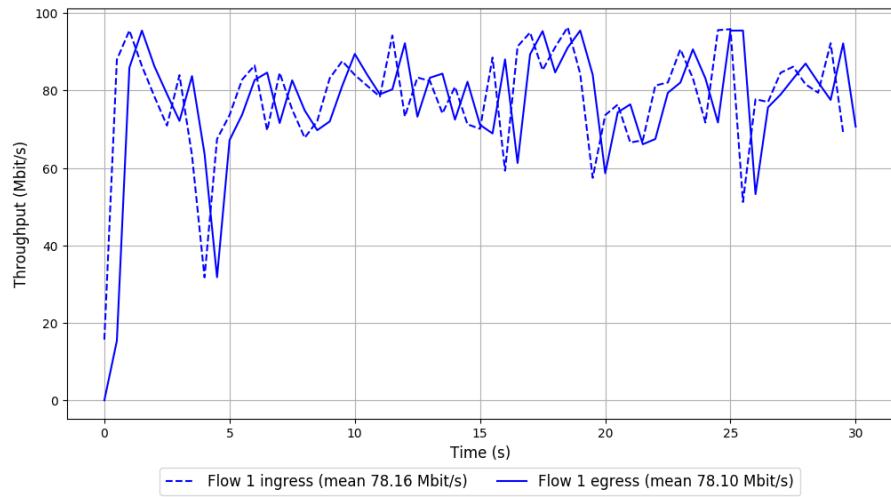


Run 5: Statistics of PCC-Expr

```
Start at: 2018-06-19 02:53:10
End at: 2018-06-19 02:53:40
Local clock offset: -1.9 ms
Remote clock offset: -7.864 ms

# Below is generated by plot.py at 2018-06-19 04:55:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.10 Mbit/s
95th percentile per-packet one-way delay: 13.478 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 78.10 Mbit/s
95th percentile per-packet one-way delay: 13.478 ms
Loss rate: 0.09%
```

Run 5: Report of PCC-Expr — Data Link

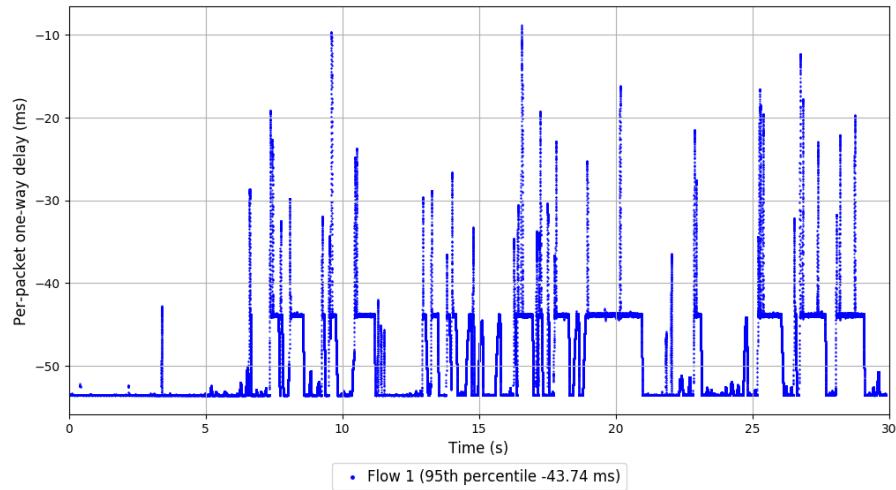
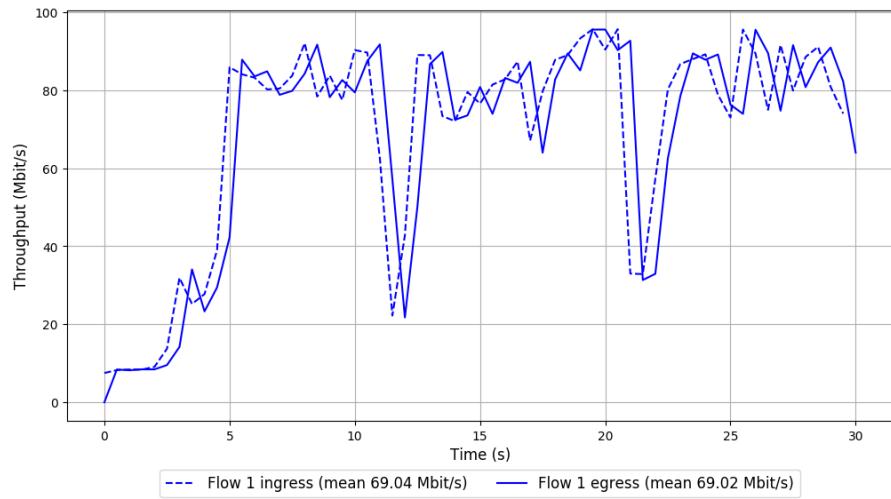


Run 6: Statistics of PCC-Expr

```
Start at: 2018-06-19 03:11:03
End at: 2018-06-19 03:11:33
Local clock offset: -2.333 ms
Remote clock offset: 46.94 ms

# Below is generated by plot.py at 2018-06-19 04:55:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.02 Mbit/s
95th percentile per-packet one-way delay: -43.745 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 69.02 Mbit/s
95th percentile per-packet one-way delay: -43.745 ms
Loss rate: 0.04%
```

Run 6: Report of PCC-Expr — Data Link

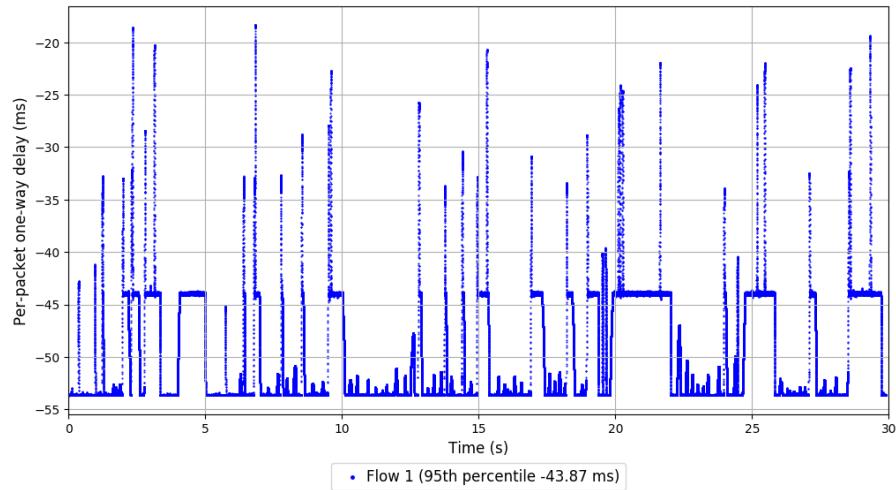
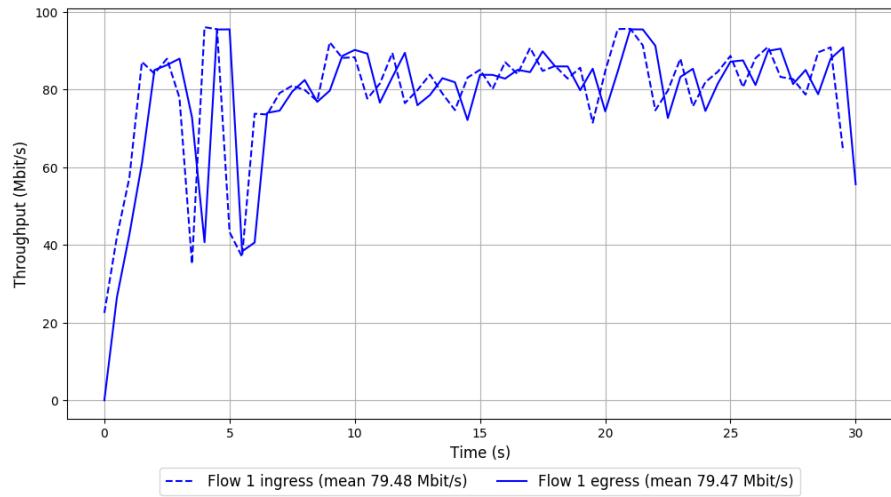


Run 7: Statistics of PCC-Expr

```
Start at: 2018-06-19 03:28:48
End at: 2018-06-19 03:29:18
Local clock offset: -2.821 ms
Remote clock offset: 47.412 ms

# Below is generated by plot.py at 2018-06-19 04:55:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.47 Mbit/s
95th percentile per-packet one-way delay: -43.869 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 79.47 Mbit/s
95th percentile per-packet one-way delay: -43.869 ms
Loss rate: 0.03%
```

Run 7: Report of PCC-Expr — Data Link

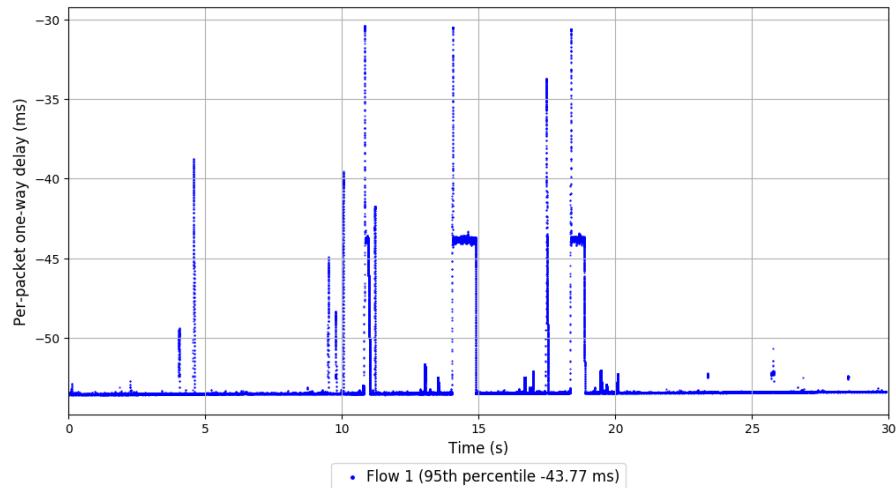
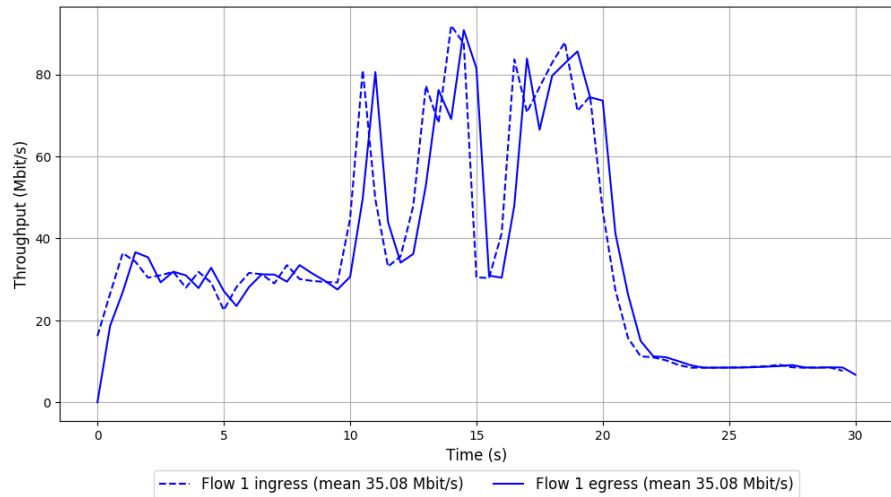


Run 8: Statistics of PCC-Expr

```
Start at: 2018-06-19 03:46:38
End at: 2018-06-19 03:47:08
Local clock offset: -2.904 ms
Remote clock offset: 51.398 ms

# Below is generated by plot.py at 2018-06-19 04:55:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.08 Mbit/s
95th percentile per-packet one-way delay: -43.767 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 35.08 Mbit/s
95th percentile per-packet one-way delay: -43.767 ms
Loss rate: 0.02%
```

Run 8: Report of PCC-Expr — Data Link

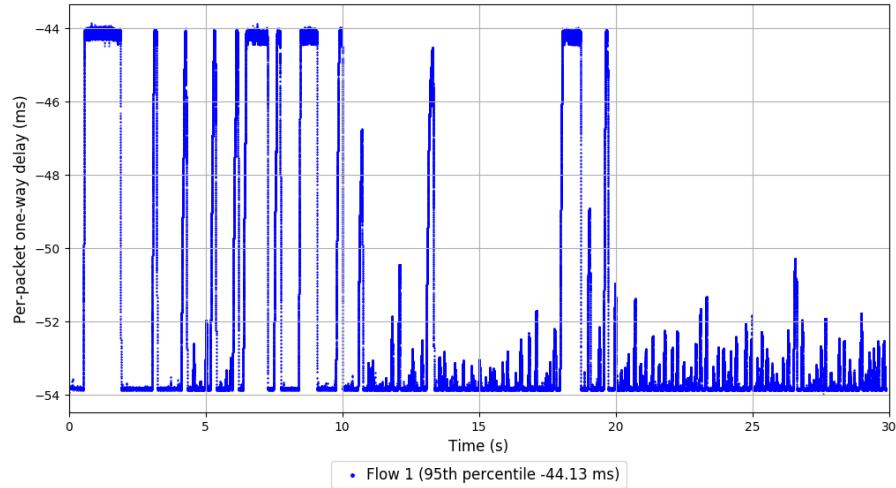
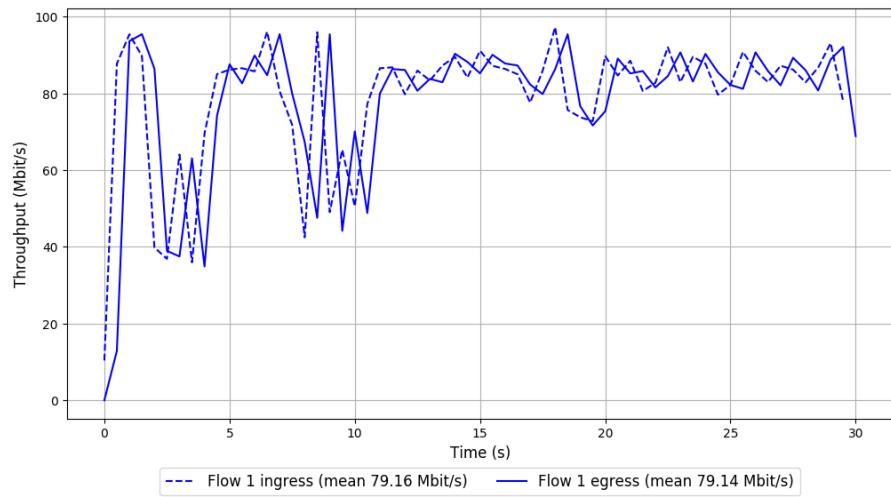


Run 9: Statistics of PCC-Expr

```
Start at: 2018-06-19 04:04:25
End at: 2018-06-19 04:04:55
Local clock offset: -2.943 ms
Remote clock offset: 54.54 ms

# Below is generated by plot.py at 2018-06-19 04:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.14 Mbit/s
95th percentile per-packet one-way delay: -44.126 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 79.14 Mbit/s
95th percentile per-packet one-way delay: -44.126 ms
Loss rate: 0.03%
```

Run 9: Report of PCC-Expr — Data Link

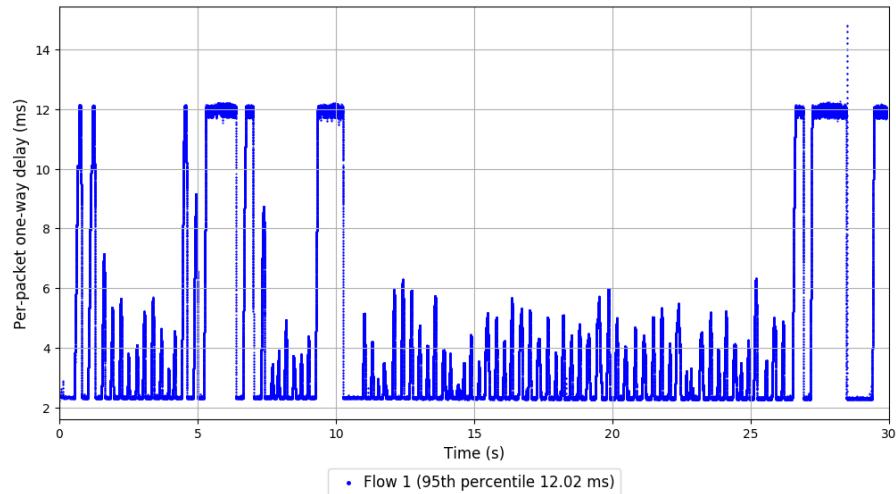
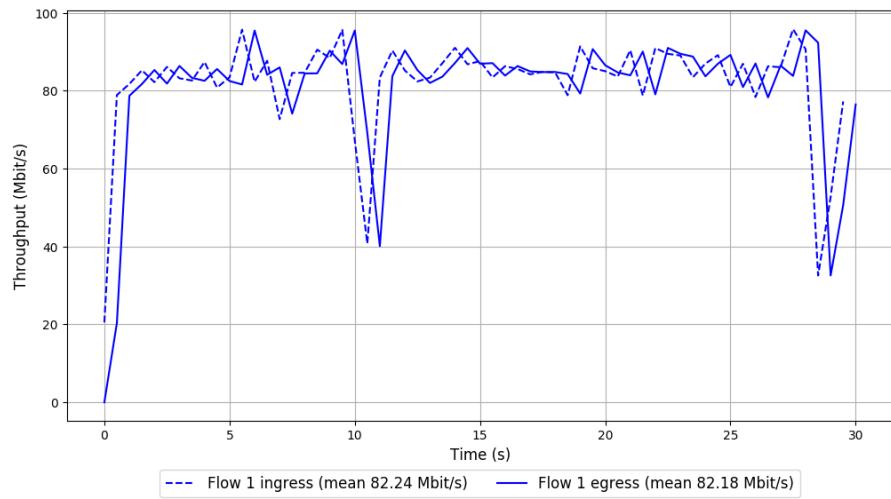


Run 10: Statistics of PCC-Expr

```
Start at: 2018-06-19 04:22:18
End at: 2018-06-19 04:22:48
Local clock offset: -1.764 ms
Remote clock offset: -0.467 ms

# Below is generated by plot.py at 2018-06-19 04:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.18 Mbit/s
95th percentile per-packet one-way delay: 12.019 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 82.18 Mbit/s
95th percentile per-packet one-way delay: 12.019 ms
Loss rate: 0.11%
```

Run 10: Report of PCC-Expr — Data Link

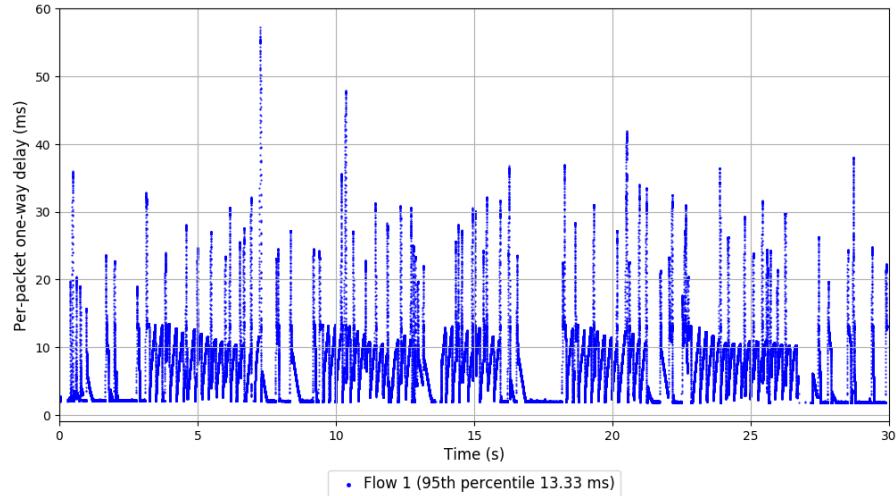
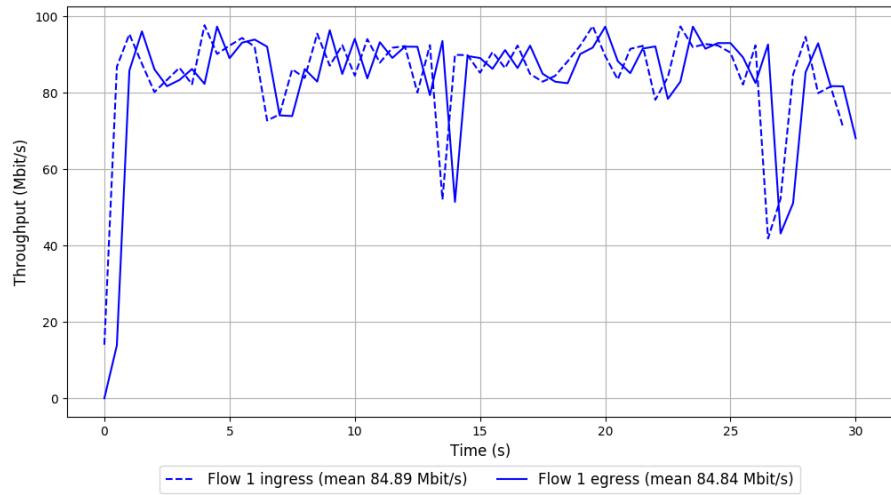


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-19 01:57:21
End at: 2018-06-19 01:57:51
Local clock offset: -1.924 ms
Remote clock offset: -2.644 ms

# Below is generated by plot.py at 2018-06-19 04:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.84 Mbit/s
95th percentile per-packet one-way delay: 13.331 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 84.84 Mbit/s
95th percentile per-packet one-way delay: 13.331 ms
Loss rate: 0.09%
```

Run 1: Report of QUIC Cubic — Data Link

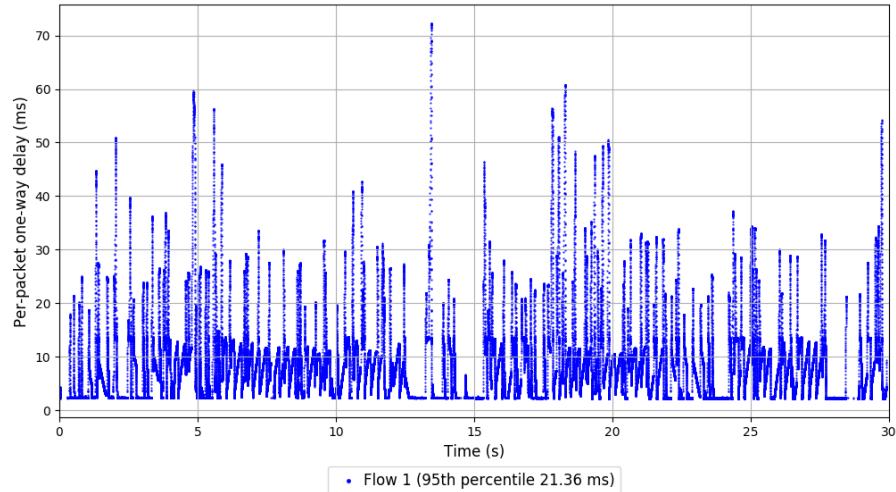
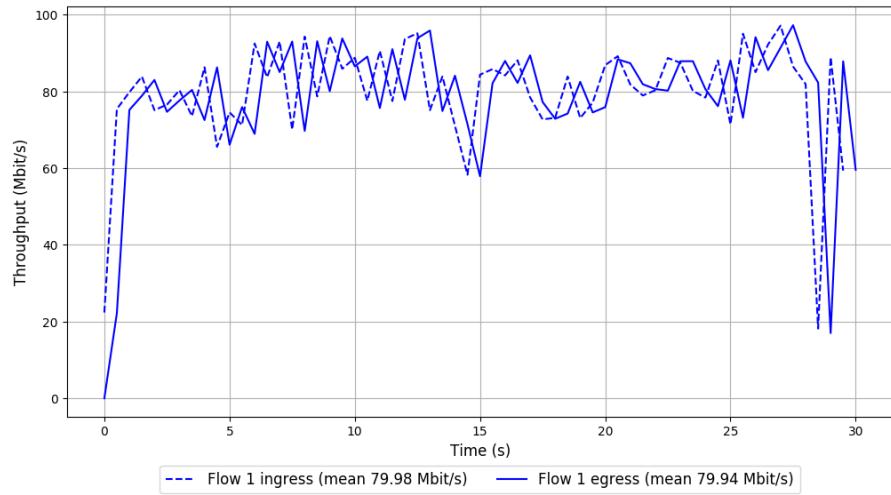


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-06-19 02:15:12
End at: 2018-06-19 02:15:42
Local clock offset: -2.529 ms
Remote clock offset: -8.185 ms

# Below is generated by plot.py at 2018-06-19 04:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.94 Mbit/s
95th percentile per-packet one-way delay: 21.357 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 79.94 Mbit/s
95th percentile per-packet one-way delay: 21.357 ms
Loss rate: 0.07%
```

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

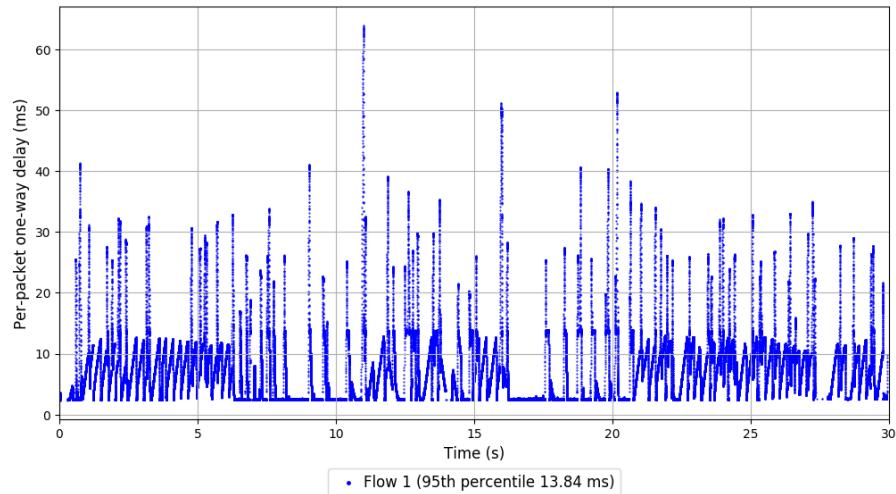
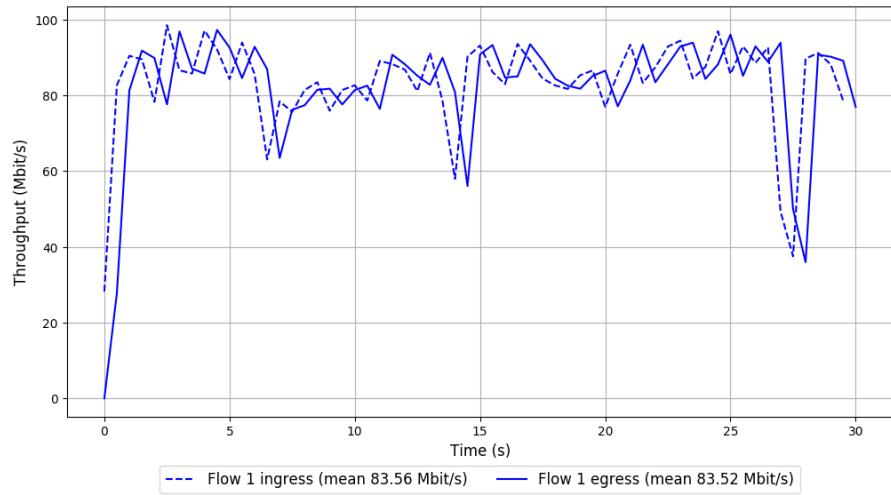


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-06-19 02:33:04
End at: 2018-06-19 02:33:34
Local clock offset: -2.763 ms
Remote clock offset: -8.878 ms

# Below is generated by plot.py at 2018-06-19 04:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.52 Mbit/s
95th percentile per-packet one-way delay: 13.844 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 83.52 Mbit/s
95th percentile per-packet one-way delay: 13.844 ms
Loss rate: 0.07%
```

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

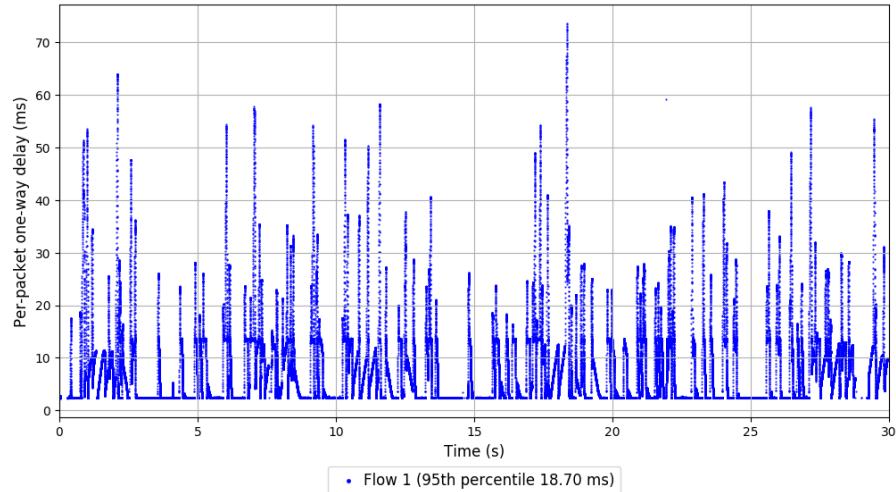
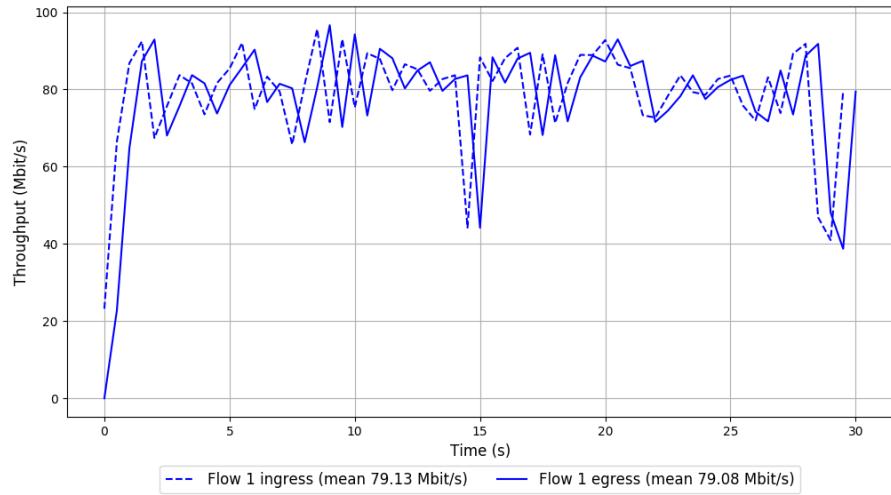


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-06-19 02:50:56
End at: 2018-06-19 02:51:26
Local clock offset: -1.96 ms
Remote clock offset: -7.841 ms

# Below is generated by plot.py at 2018-06-19 04:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.08 Mbit/s
95th percentile per-packet one-way delay: 18.696 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 79.08 Mbit/s
95th percentile per-packet one-way delay: 18.696 ms
Loss rate: 0.07%
```

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

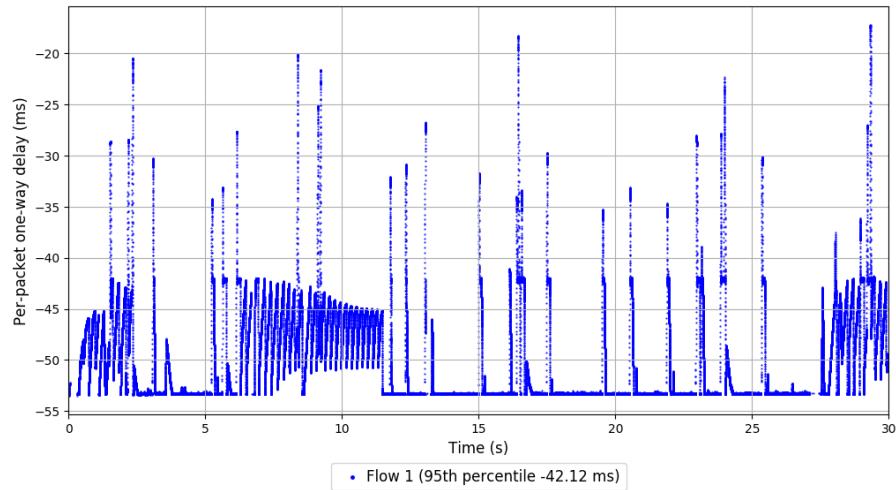
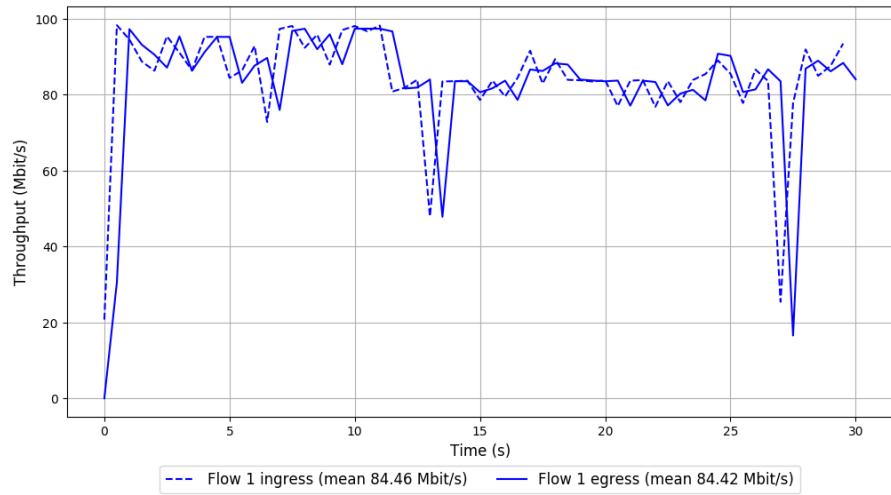


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-06-19 03:08:47
End at: 2018-06-19 03:09:17
Local clock offset: -2.202 ms
Remote clock offset: 46.719 ms

# Below is generated by plot.py at 2018-06-19 04:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.42 Mbit/s
95th percentile per-packet one-way delay: -42.120 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 84.42 Mbit/s
95th percentile per-packet one-way delay: -42.120 ms
Loss rate: 0.04%
```

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

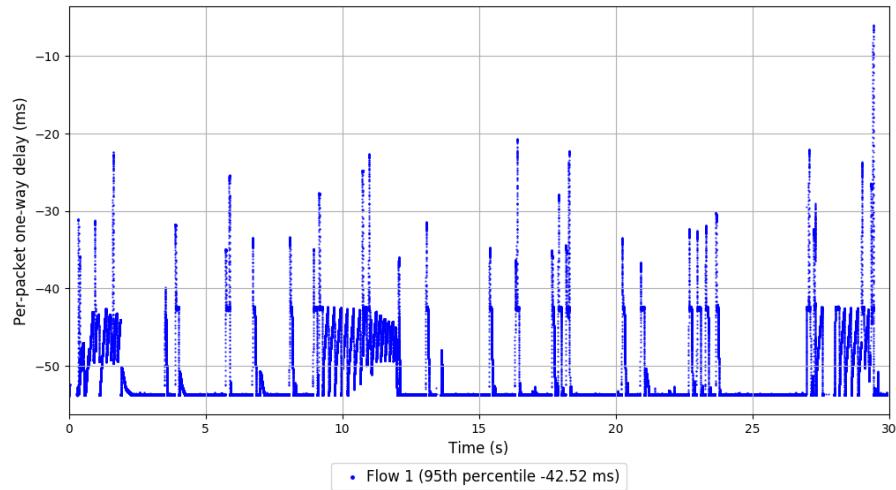
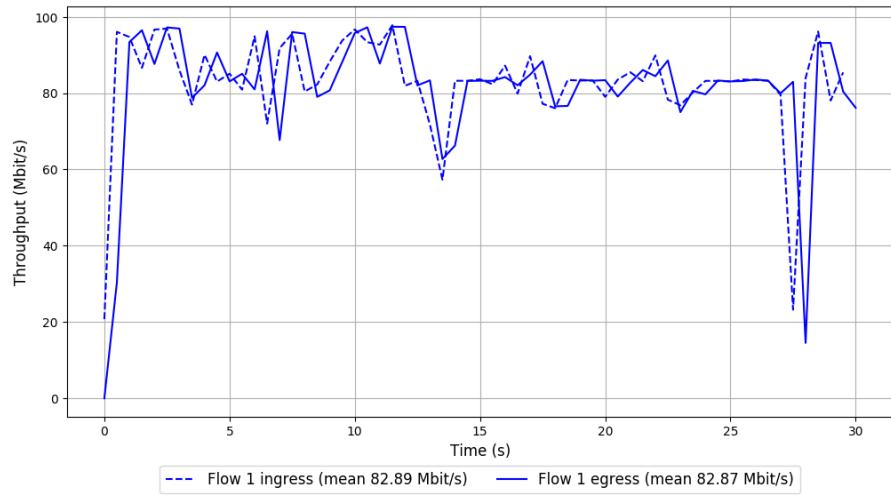


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-06-19 03:26:33
End at: 2018-06-19 03:27:03
Local clock offset: -2.874 ms
Remote clock offset: 47.495 ms

# Below is generated by plot.py at 2018-06-19 04:56:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.87 Mbit/s
95th percentile per-packet one-way delay: -42.520 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 82.87 Mbit/s
95th percentile per-packet one-way delay: -42.520 ms
Loss rate: 0.03%
```

Run 6: Report of QUIC Cubic — Data Link

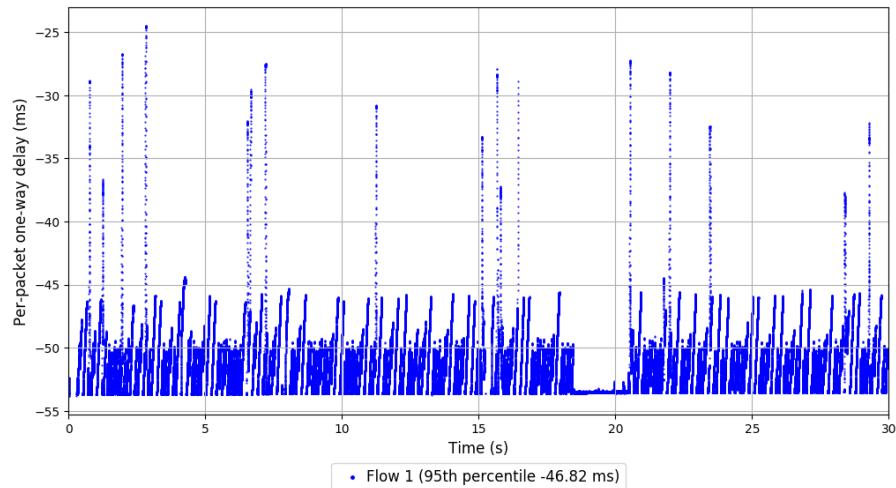
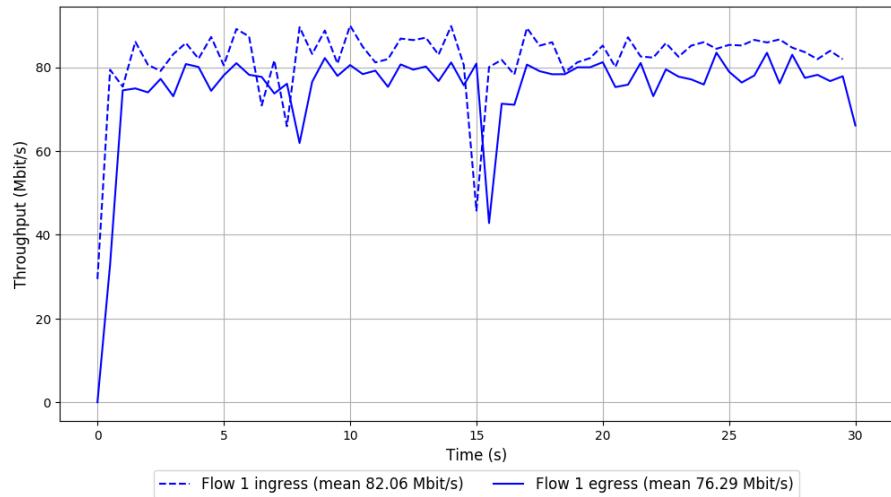


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-06-19 03:44:27
End at: 2018-06-19 03:44:57
Local clock offset: -2.954 ms
Remote clock offset: 50.548 ms

# Below is generated by plot.py at 2018-06-19 04:57:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.29 Mbit/s
95th percentile per-packet one-way delay: -46.823 ms
Loss rate: 7.04%
-- Flow 1:
Average throughput: 76.29 Mbit/s
95th percentile per-packet one-way delay: -46.823 ms
Loss rate: 7.04%
```

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

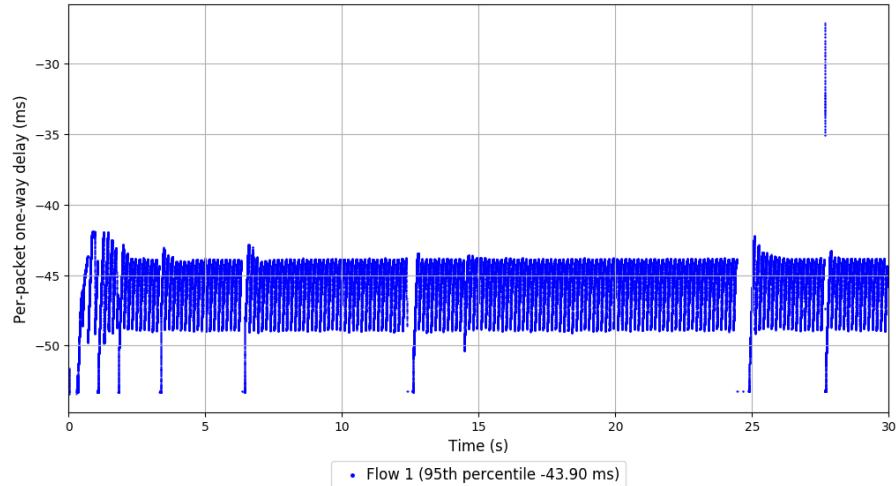
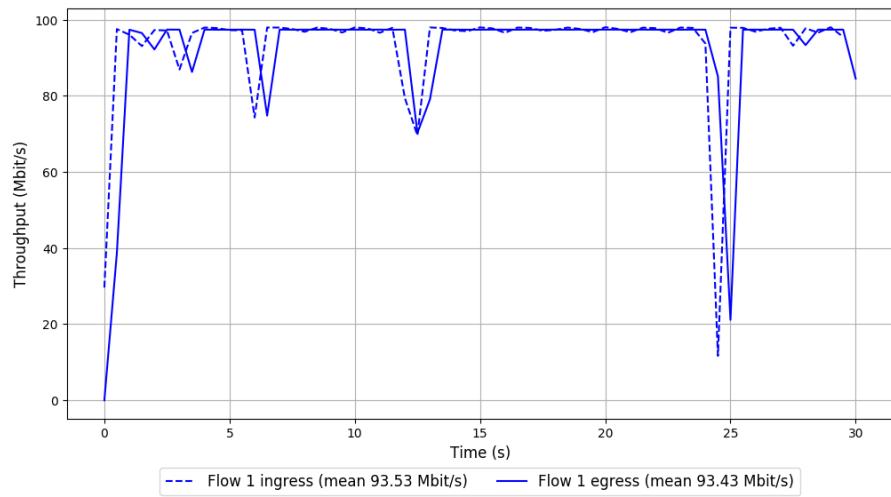


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-06-19 04:02:09
End at: 2018-06-19 04:02:39
Local clock offset: -2.99 ms
Remote clock offset: 53.935 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.43 Mbit/s
95th percentile per-packet one-way delay: -43.895 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 93.43 Mbit/s
95th percentile per-packet one-way delay: -43.895 ms
Loss rate: 0.11%
```

Run 8: Report of QUIC Cubic — Data Link

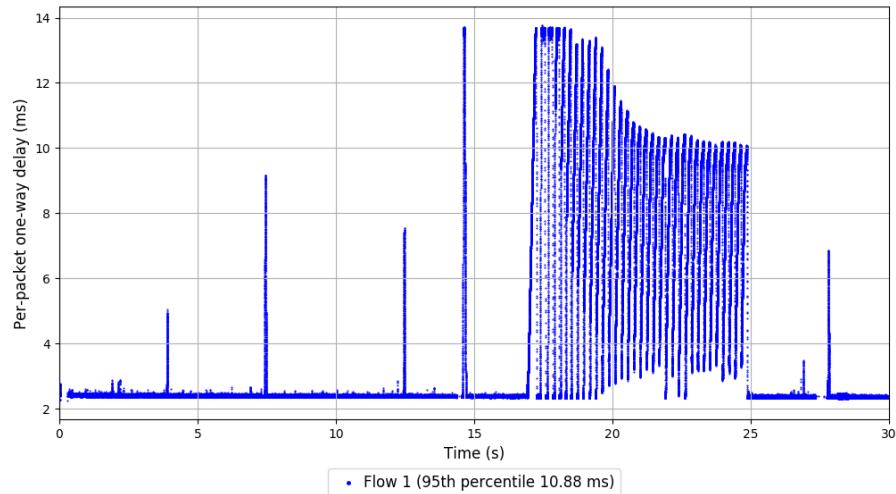
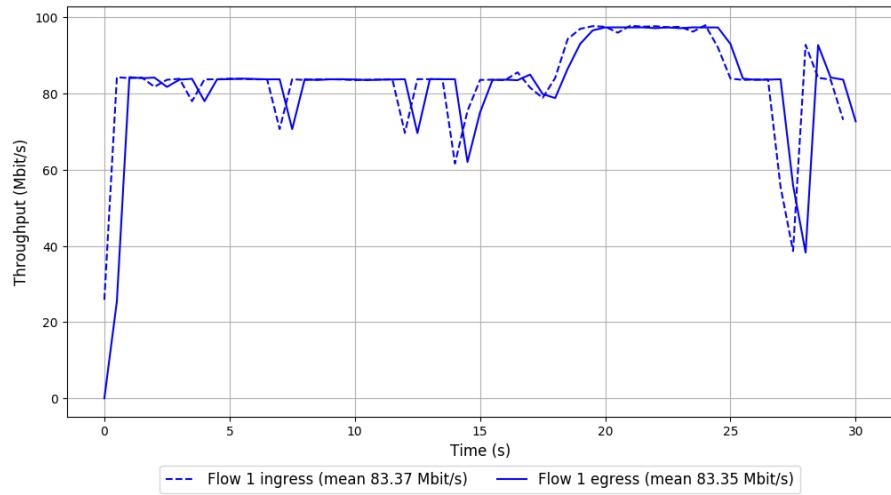


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-06-19 04:20:03
End at: 2018-06-19 04:20:33
Local clock offset: -1.854 ms
Remote clock offset: -0.401 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.35 Mbit/s
95th percentile per-packet one-way delay: 10.878 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 83.35 Mbit/s
95th percentile per-packet one-way delay: 10.878 ms
Loss rate: 0.03%
```

Run 9: Report of QUIC Cubic — Data Link

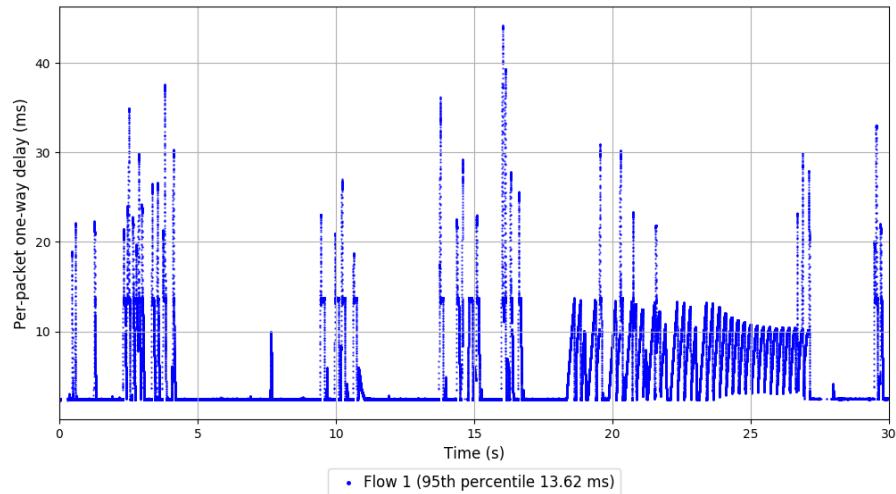
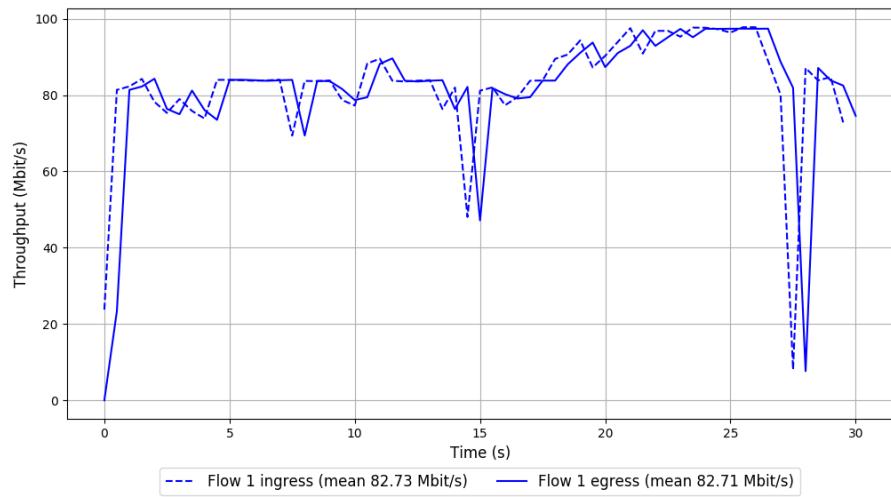


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-06-19 04:37:58
End at: 2018-06-19 04:38:28
Local clock offset: -1.664 ms
Remote clock offset: -0.43 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.71 Mbit/s
95th percentile per-packet one-way delay: 13.620 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 82.71 Mbit/s
95th percentile per-packet one-way delay: 13.620 ms
Loss rate: 0.04%
```

Run 10: Report of QUIC Cubic — Data Link

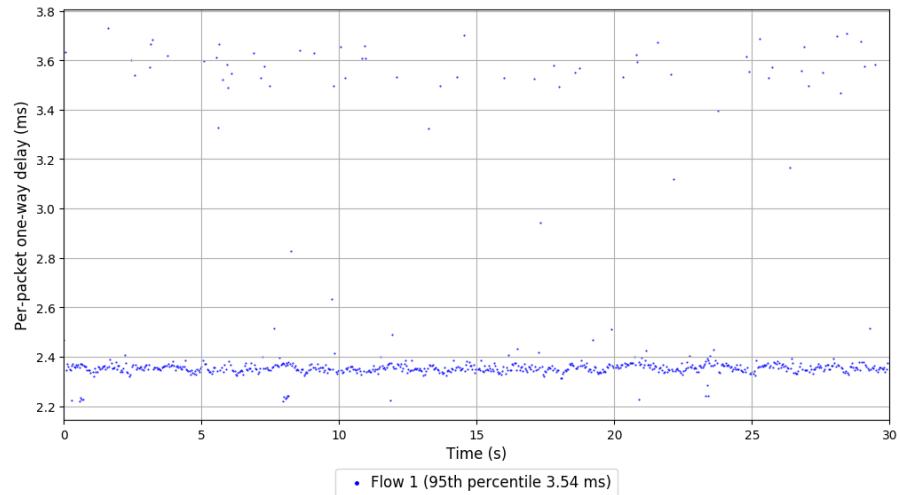
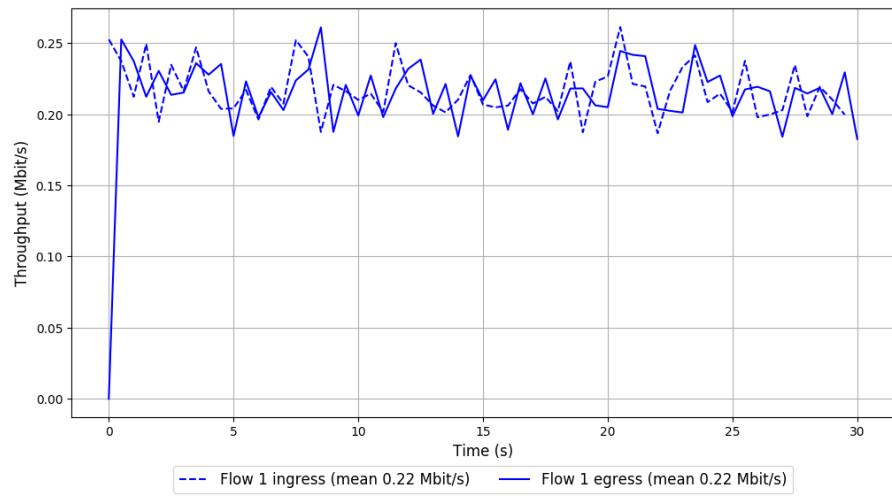


Run 1: Statistics of SCReAM

```
Start at: 2018-06-19 01:48:31
End at: 2018-06-19 01:49:01
Local clock offset: -1.875 ms
Remote clock offset: -1.484 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.545 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.545 ms
Loss rate: 0.13%
```

Run 1: Report of SCReAM — Data Link

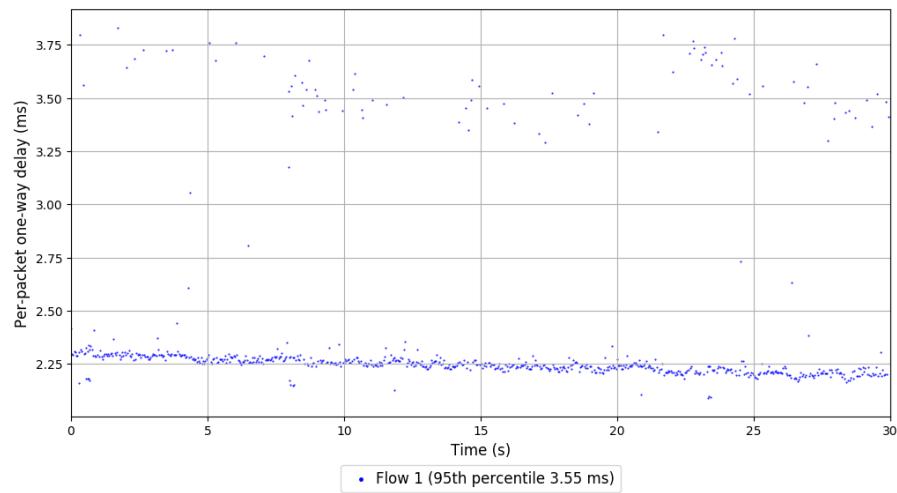
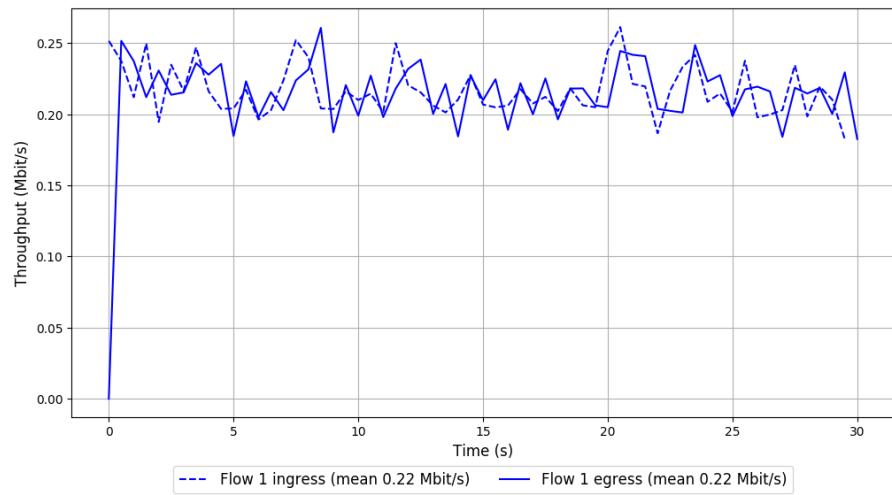


Run 2: Statistics of SCReAM

```
Start at: 2018-06-19 02:06:23
End at: 2018-06-19 02:06:53
Local clock offset: -2.045 ms
Remote clock offset: -6.38 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.553 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.553 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

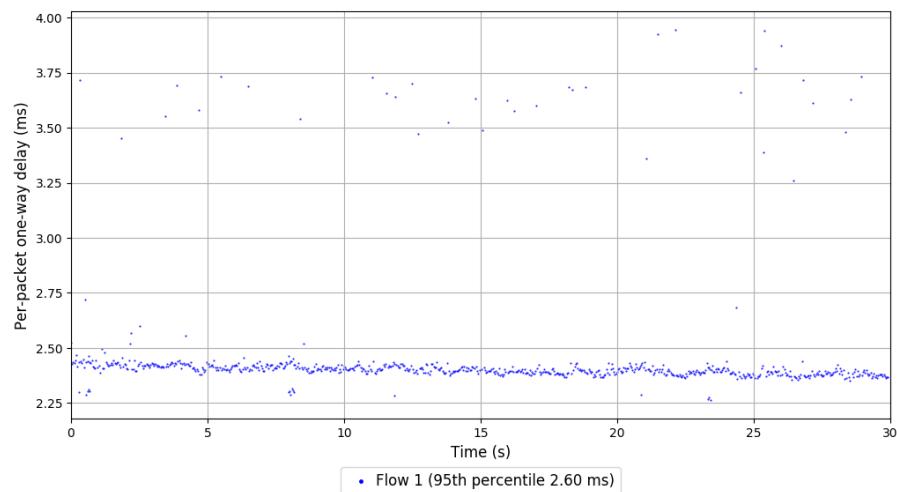
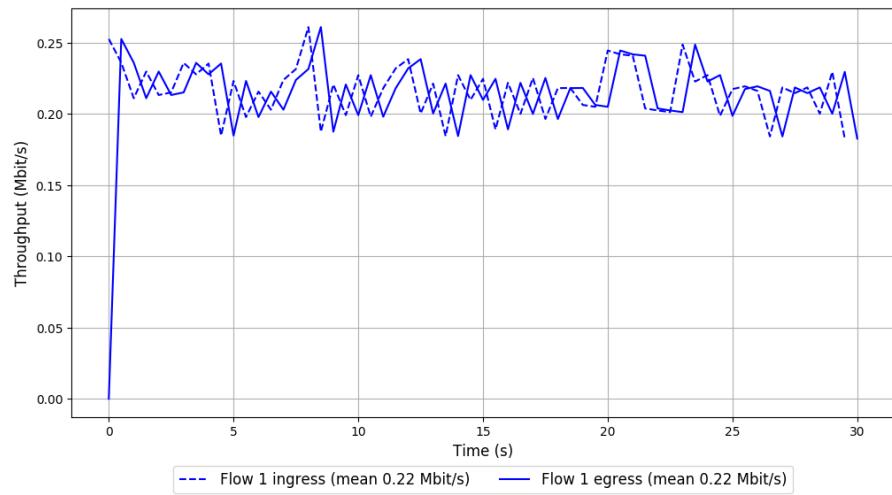


Run 3: Statistics of SCReAM

```
Start at: 2018-06-19 02:24:14
End at: 2018-06-19 02:24:44
Local clock offset: -2.673 ms
Remote clock offset: -9.331 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.598 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.598 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

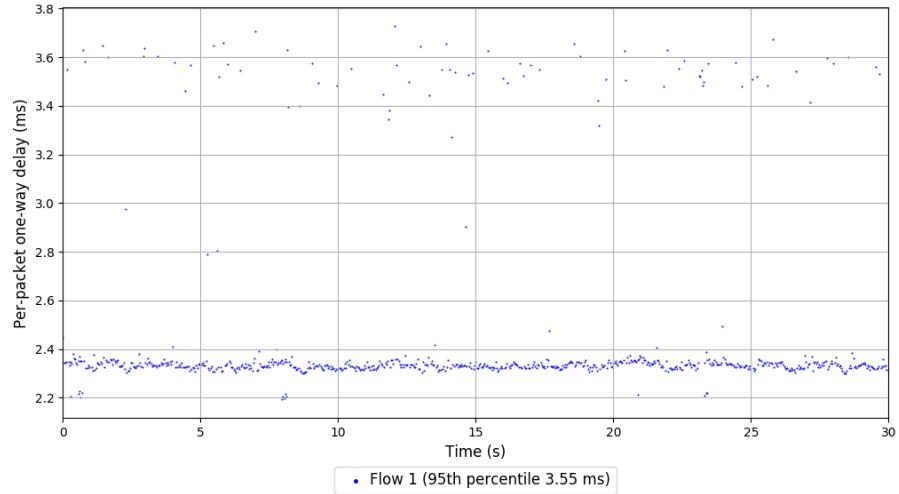
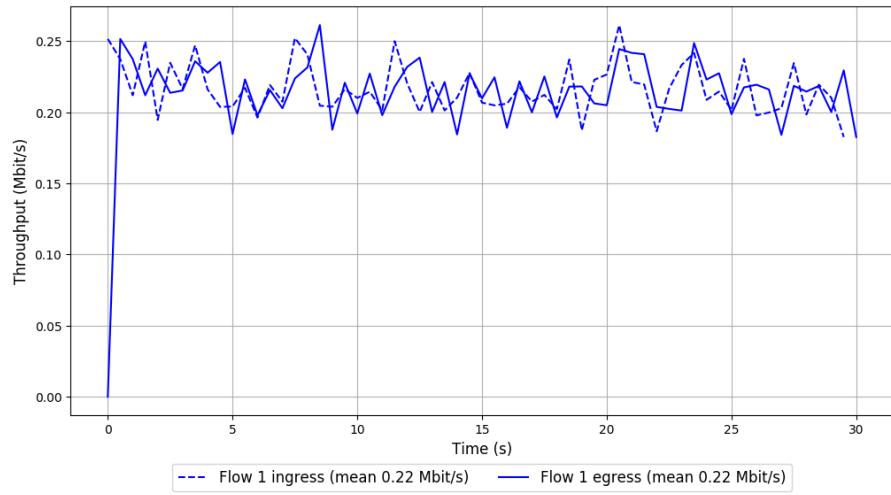


Run 4: Statistics of SCReAM

```
Start at: 2018-06-19 02:42:06
End at: 2018-06-19 02:42:36
Local clock offset: -2.218 ms
Remote clock offset: -7.857 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.548 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.548 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

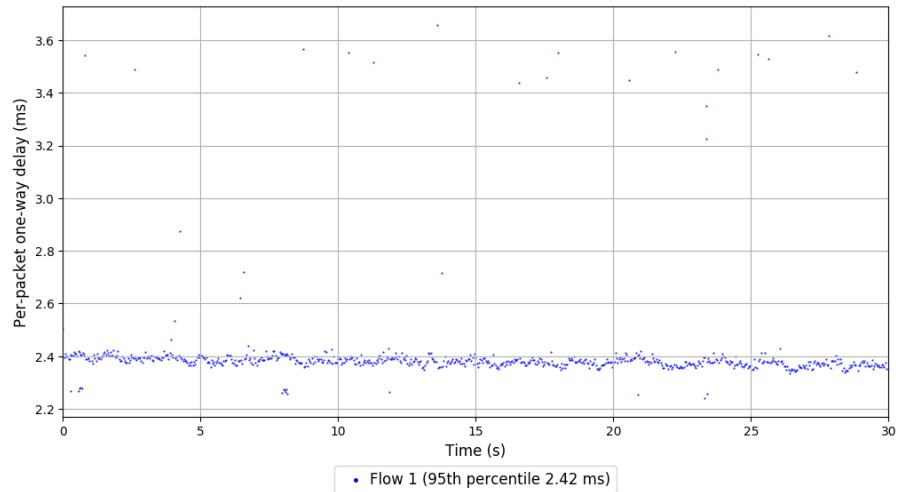
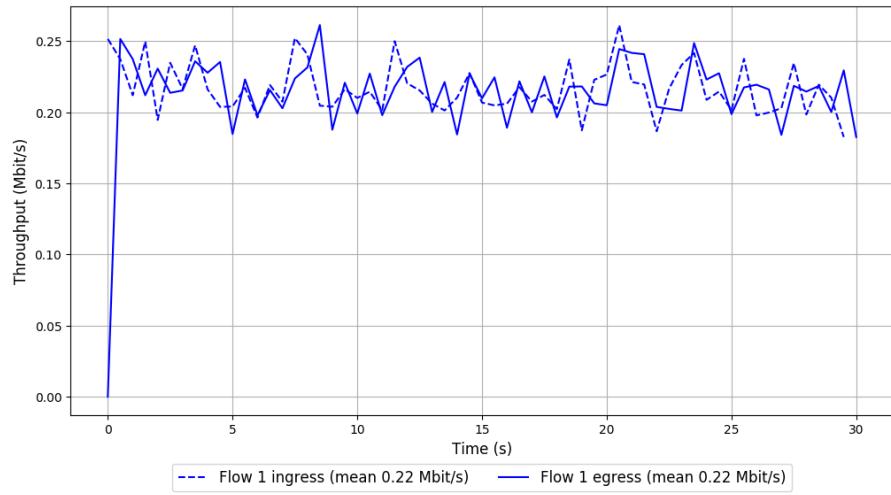


Run 5: Statistics of SCReAM

```
Start at: 2018-06-19 02:59:56
End at: 2018-06-19 03:00:26
Local clock offset: -1.808 ms
Remote clock offset: -8.06 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.418 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.418 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

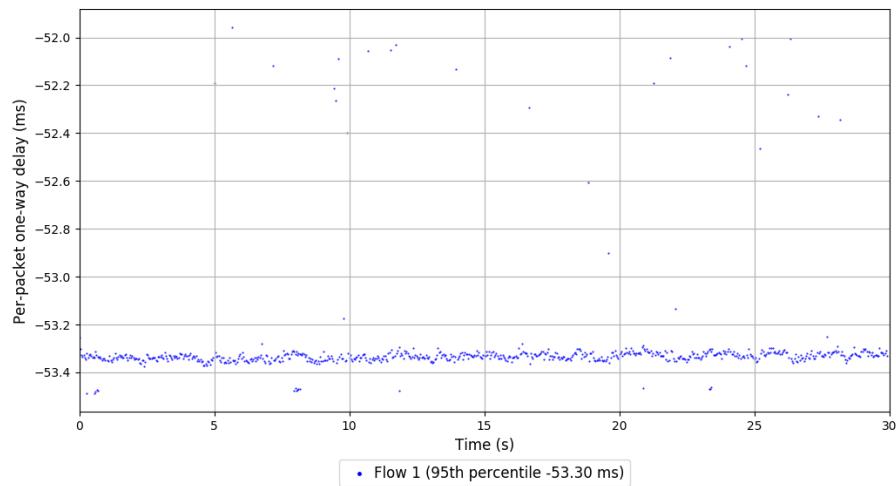
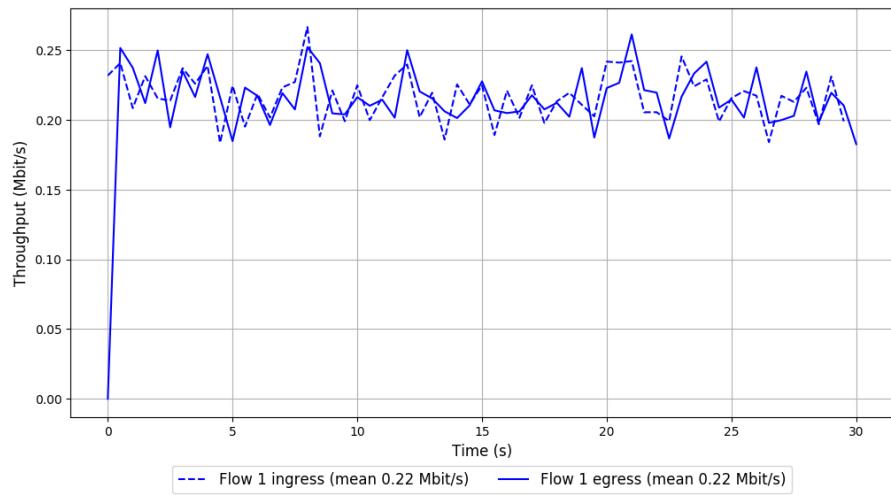


Run 6: Statistics of SCReAM

```
Start at: 2018-06-19 03:17:47
End at: 2018-06-19 03:18:17
Local clock offset: -2.602 ms
Remote clock offset: 47.157 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -53.299 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -53.299 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link

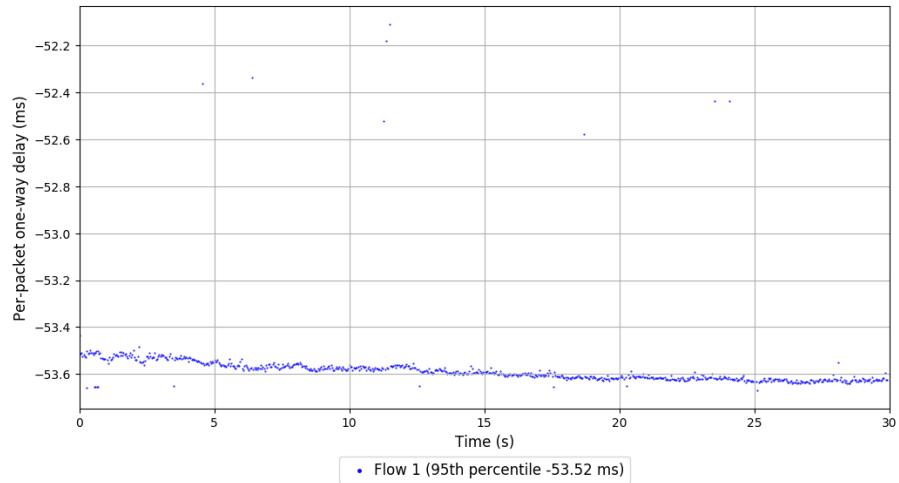
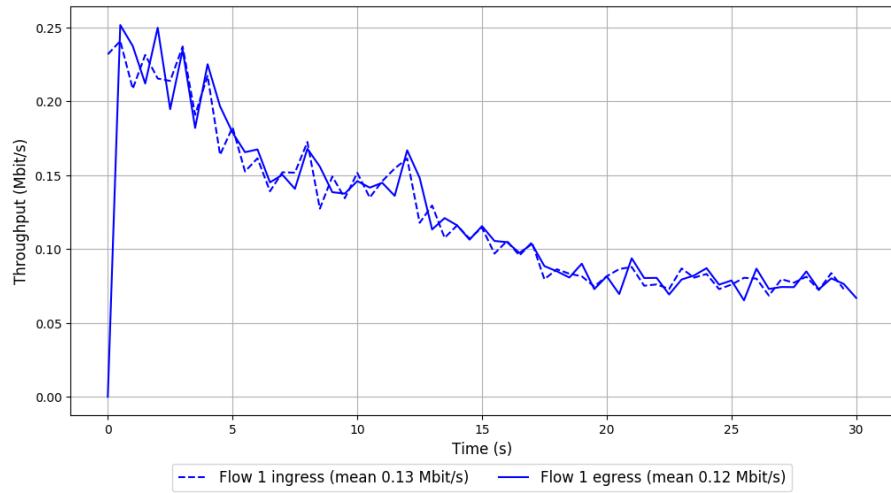


Run 7: Statistics of SCReAM

```
Start at: 2018-06-19 03:35:32
End at: 2018-06-19 03:36:02
Local clock offset: -2.885 ms
Remote clock offset: 47.085 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: -53.517 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: -53.517 ms
Loss rate: 0.65%
```

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

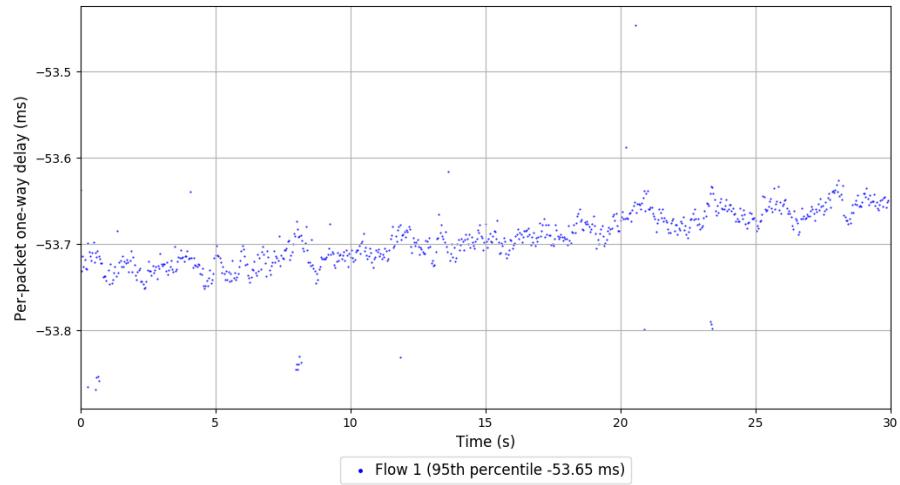
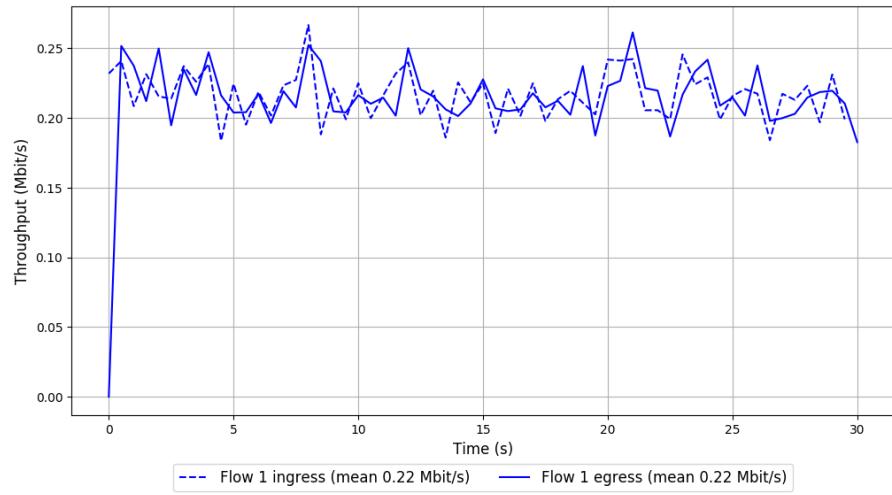


Run 8: Statistics of SCReAM

```
Start at: 2018-06-19 03:53:20
End at: 2018-06-19 03:53:50
Local clock offset: -2.997 ms
Remote clock offset: 53.031 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -53.647 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -53.647 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link

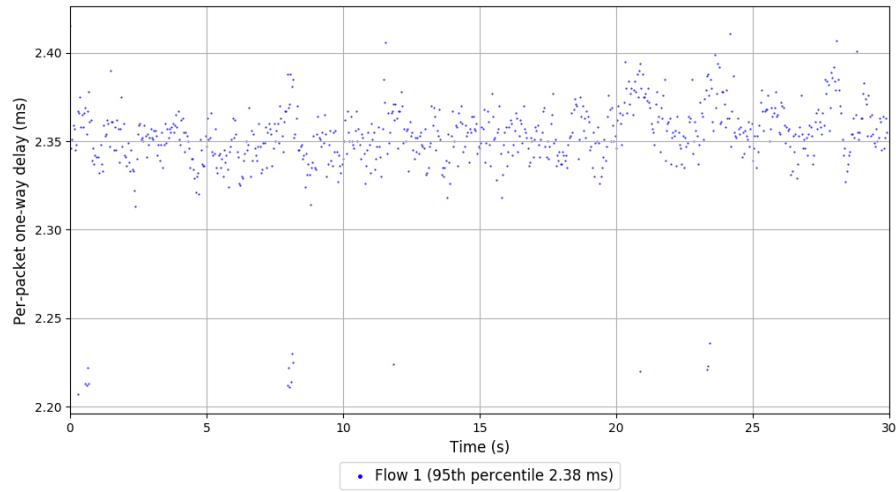
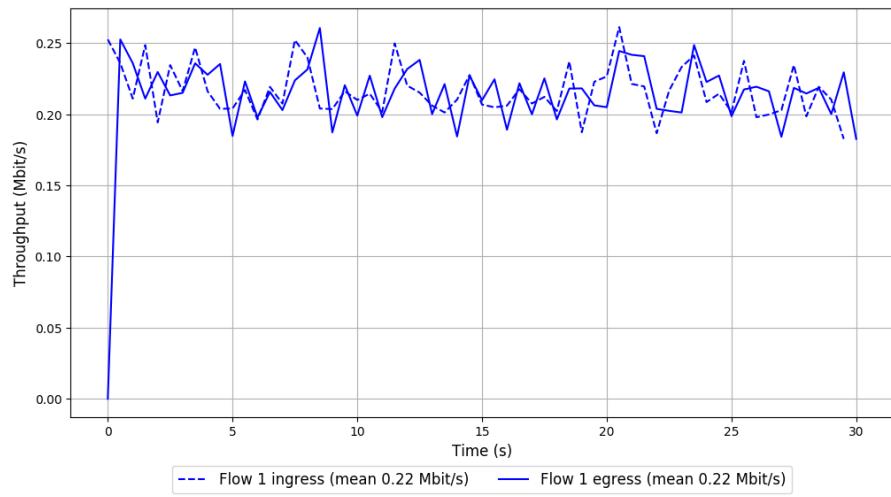


Run 9: Statistics of SCReAM

```
Start at: 2018-06-19 04:11:10
End at: 2018-06-19 04:11:40
Local clock offset: -2.335 ms
Remote clock offset: 0.818 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.380 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link

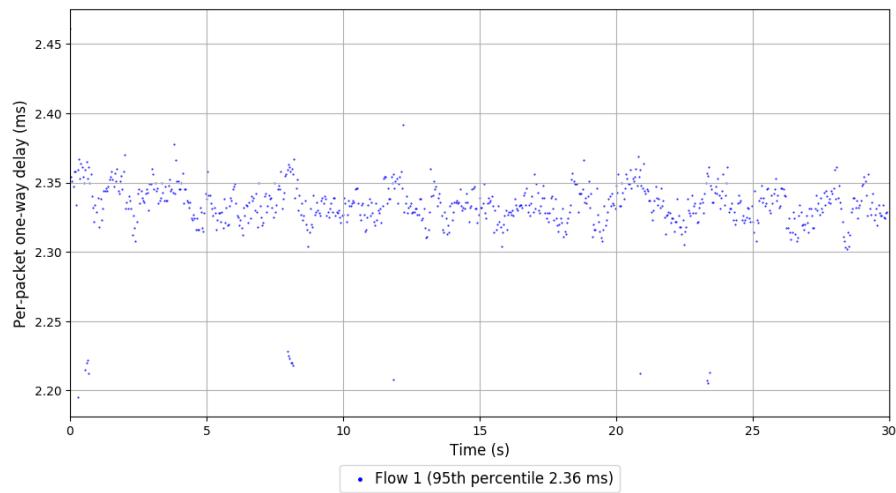
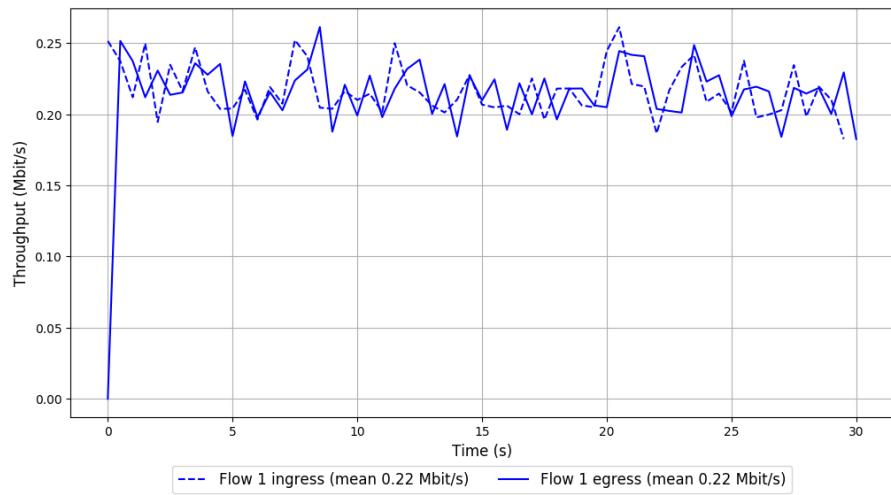


Run 10: Statistics of SCReAM

```
Start at: 2018-06-19 04:29:07
End at: 2018-06-19 04:29:37
Local clock offset: -1.636 ms
Remote clock offset: -0.589 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.357 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.357 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

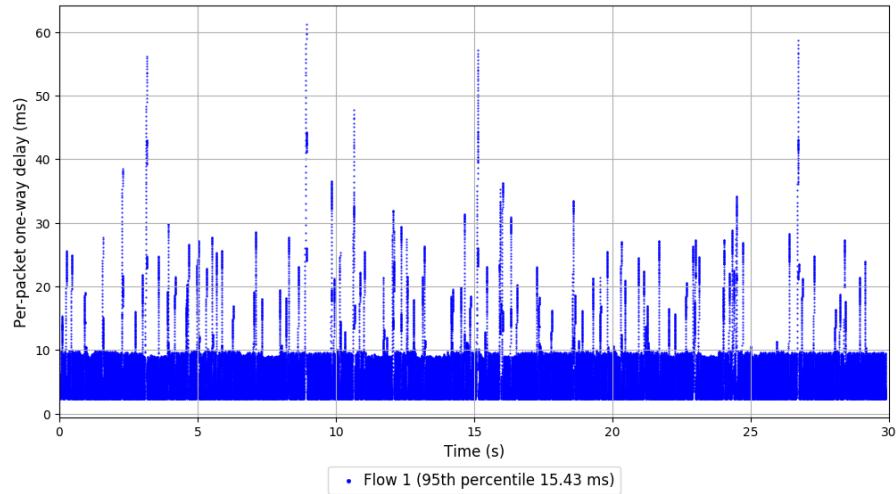
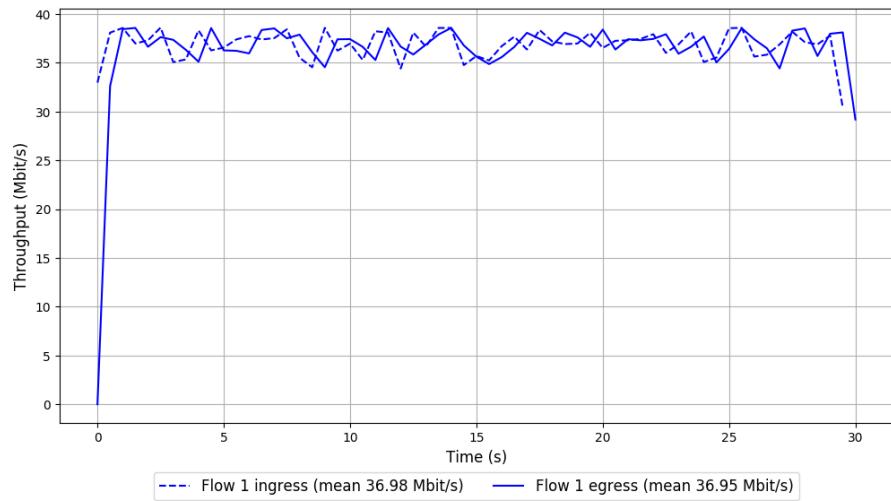


Run 1: Statistics of Sprout

```
Start at: 2018-06-19 01:54:00
End at: 2018-06-19 01:54:30
Local clock offset: -1.862 ms
Remote clock offset: -1.4 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.95 Mbit/s
95th percentile per-packet one-way delay: 15.425 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 36.95 Mbit/s
95th percentile per-packet one-way delay: 15.425 ms
Loss rate: 0.06%
```

Run 1: Report of Sprout — Data Link

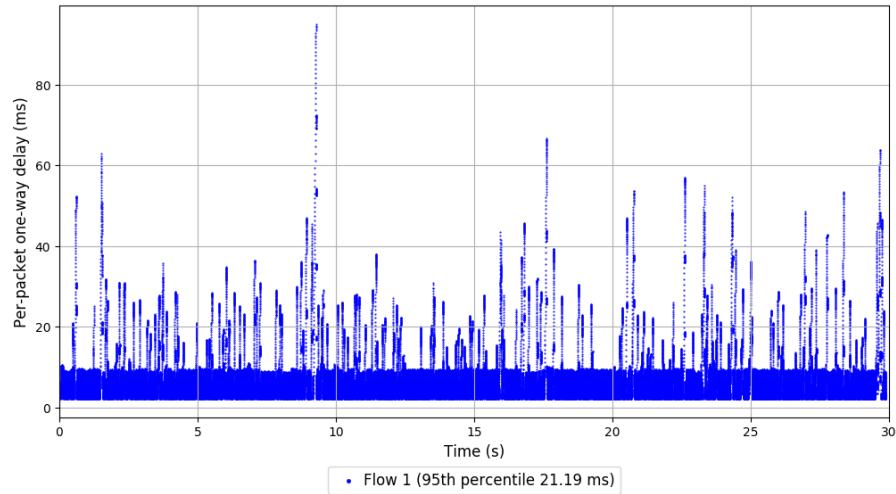
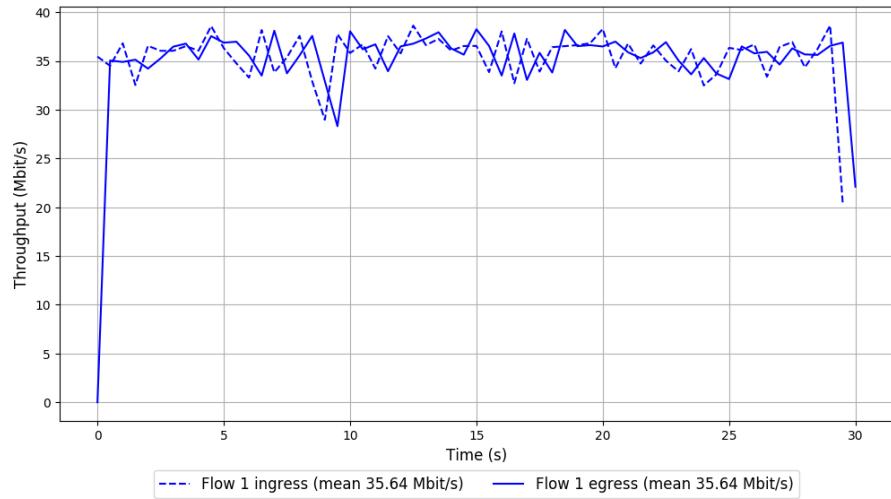


Run 2: Statistics of Sprout

```
Start at: 2018-06-19 02:11:52
End at: 2018-06-19 02:12:22
Local clock offset: -2.349 ms
Remote clock offset: -7.558 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.64 Mbit/s
95th percentile per-packet one-way delay: 21.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.64 Mbit/s
95th percentile per-packet one-way delay: 21.188 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link

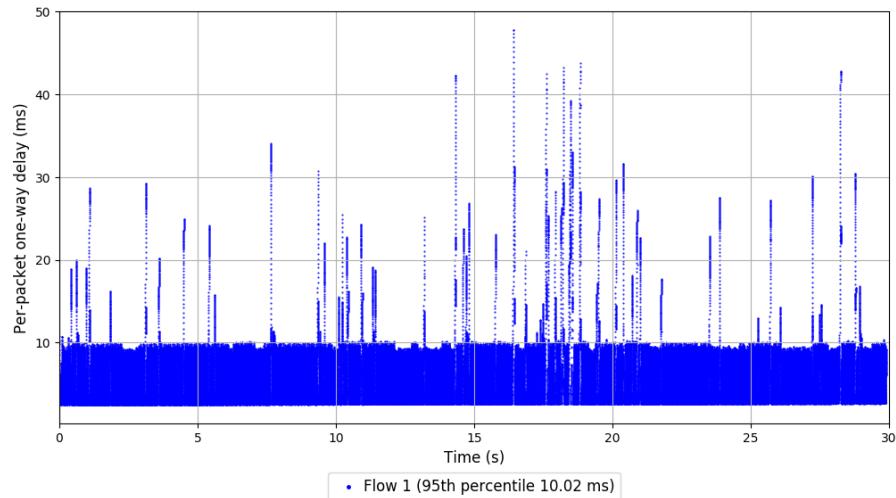
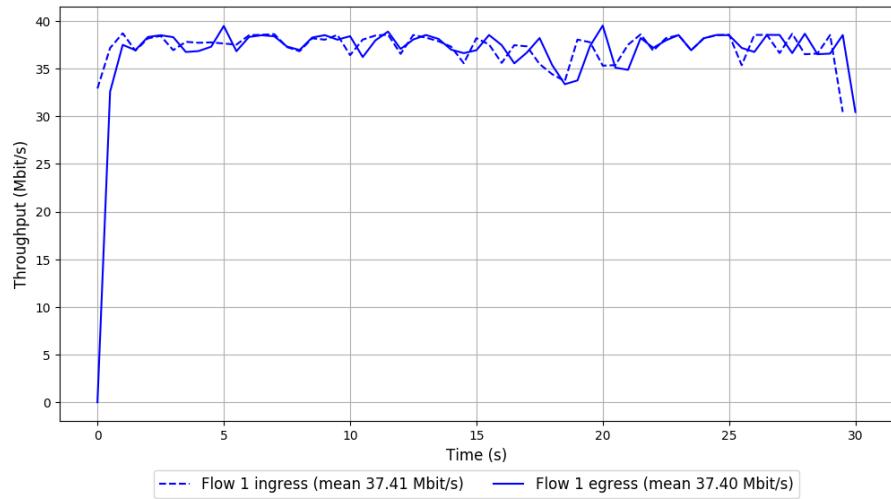


Run 3: Statistics of Sprout

```
Start at: 2018-06-19 02:29:43
End at: 2018-06-19 02:30:13
Local clock offset: -2.742 ms
Remote clock offset: -9.785 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.40 Mbit/s
95th percentile per-packet one-way delay: 10.018 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.40 Mbit/s
95th percentile per-packet one-way delay: 10.018 ms
Loss rate: 0.00%
```

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

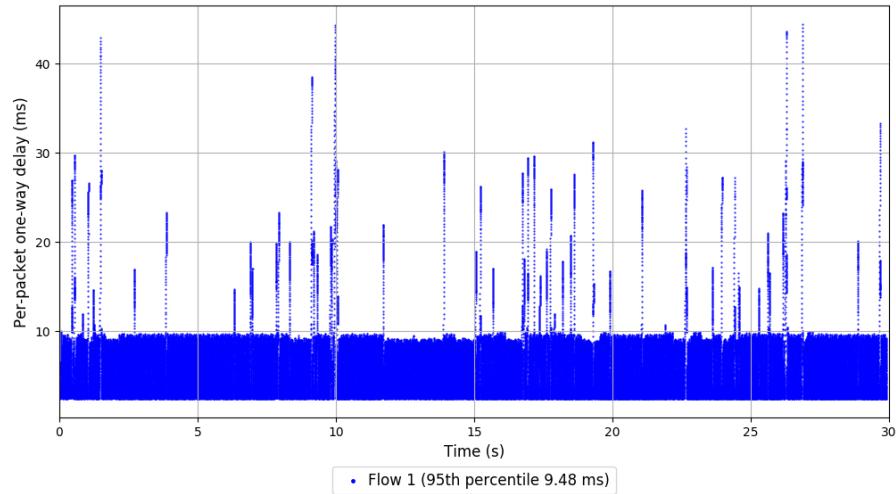
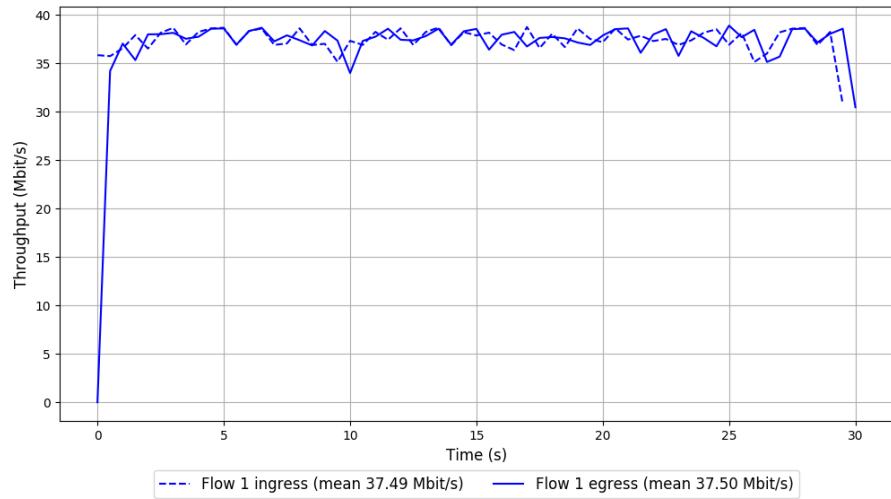


Run 4: Statistics of Sprout

```
Start at: 2018-06-19 02:47:35
End at: 2018-06-19 02:48:05
Local clock offset: -2.018 ms
Remote clock offset: -7.829 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.50 Mbit/s
95th percentile per-packet one-way delay: 9.481 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 37.50 Mbit/s
95th percentile per-packet one-way delay: 9.481 ms
Loss rate: 0.01%
```

Run 4: Report of Sprout — Data Link

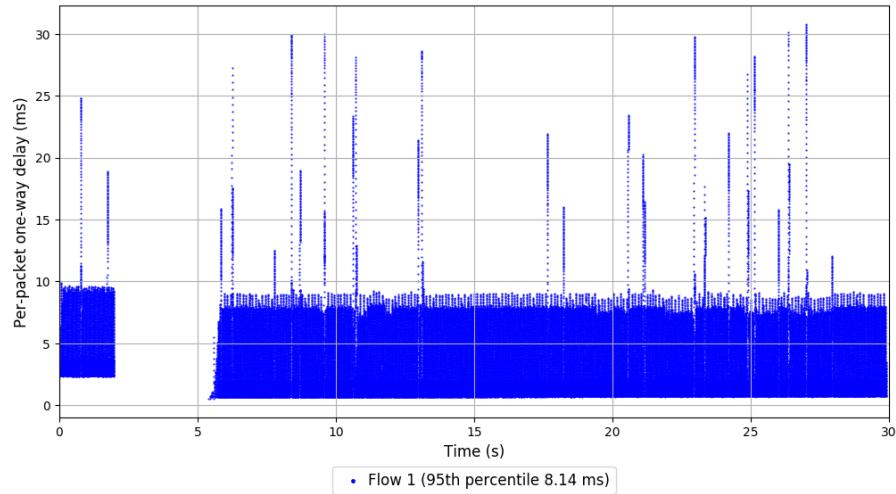
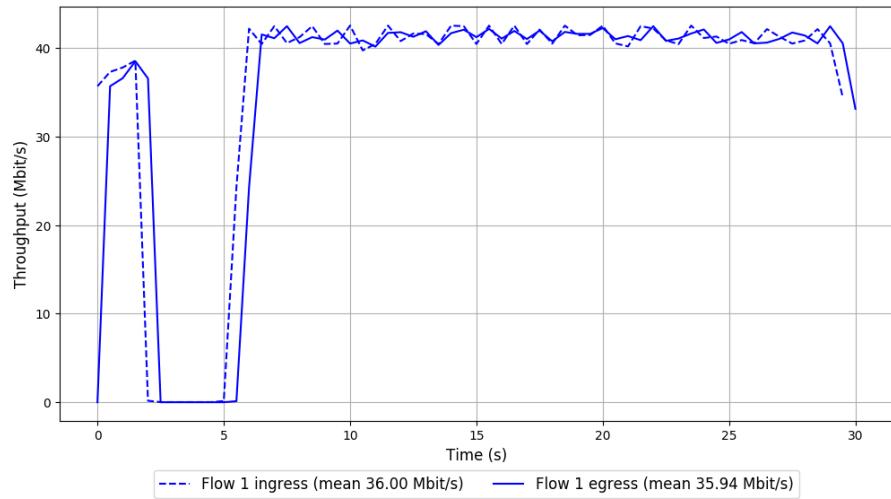


Run 5: Statistics of Sprout

```
Start at: 2018-06-19 03:05:26
End at: 2018-06-19 03:05:56
Local clock offset: -1.981 ms
Remote clock offset: -7.848 ms

# Below is generated by plot.py at 2018-06-19 04:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.94 Mbit/s
95th percentile per-packet one-way delay: 8.143 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 35.94 Mbit/s
95th percentile per-packet one-way delay: 8.143 ms
Loss rate: 0.17%
```

Run 5: Report of Sprout — Data Link

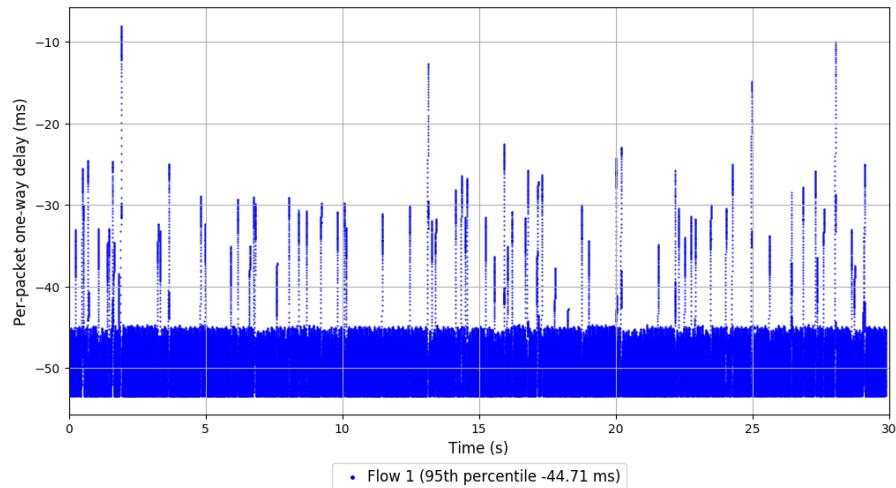
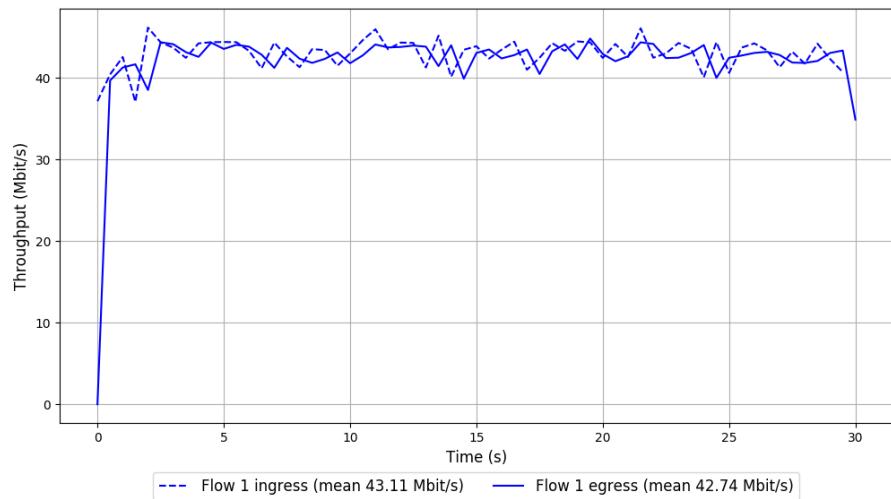


Run 6: Statistics of Sprout

```
Start at: 2018-06-19 03:23:11
End at: 2018-06-19 03:23:41
Local clock offset: -2.738 ms
Remote clock offset: 47.237 ms

# Below is generated by plot.py at 2018-06-19 04:57:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.74 Mbit/s
95th percentile per-packet one-way delay: -44.712 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 42.74 Mbit/s
95th percentile per-packet one-way delay: -44.712 ms
Loss rate: 0.90%
```

Run 6: Report of Sprout — Data Link

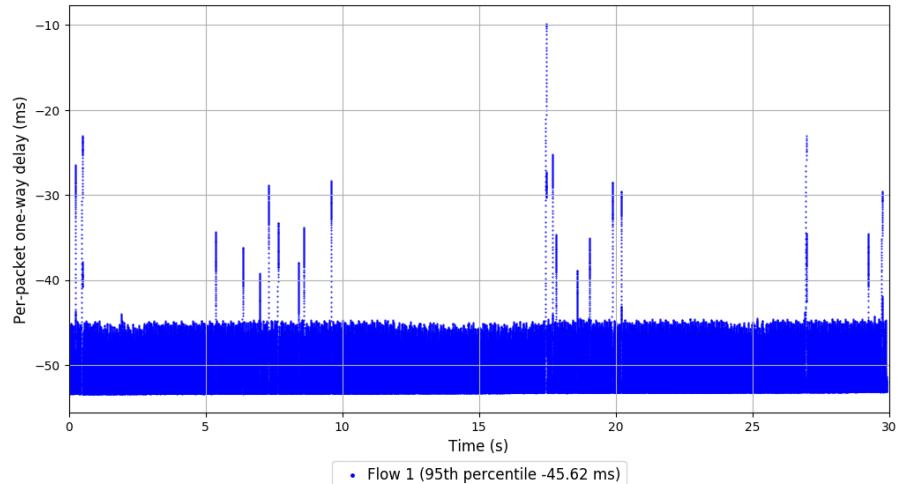
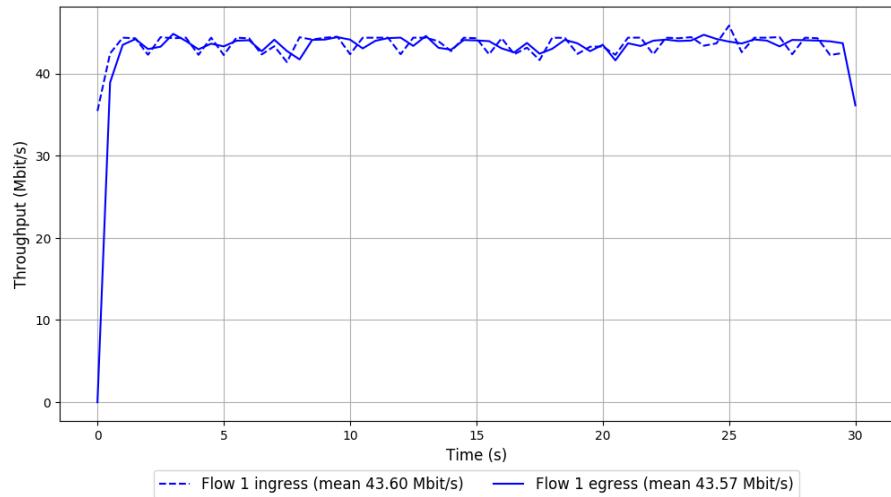


Run 7: Statistics of Sprout

```
Start at: 2018-06-19 03:41:05
End at: 2018-06-19 03:41:35
Local clock offset: -2.878 ms
Remote clock offset: 48.923 ms

# Below is generated by plot.py at 2018-06-19 04:57:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.57 Mbit/s
95th percentile per-packet one-way delay: -45.623 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 43.57 Mbit/s
95th percentile per-packet one-way delay: -45.623 ms
Loss rate: 0.05%
```

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

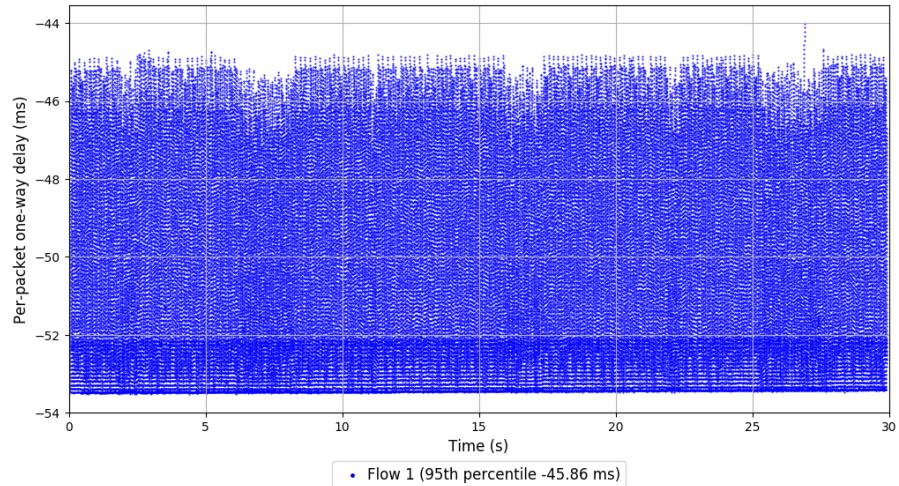
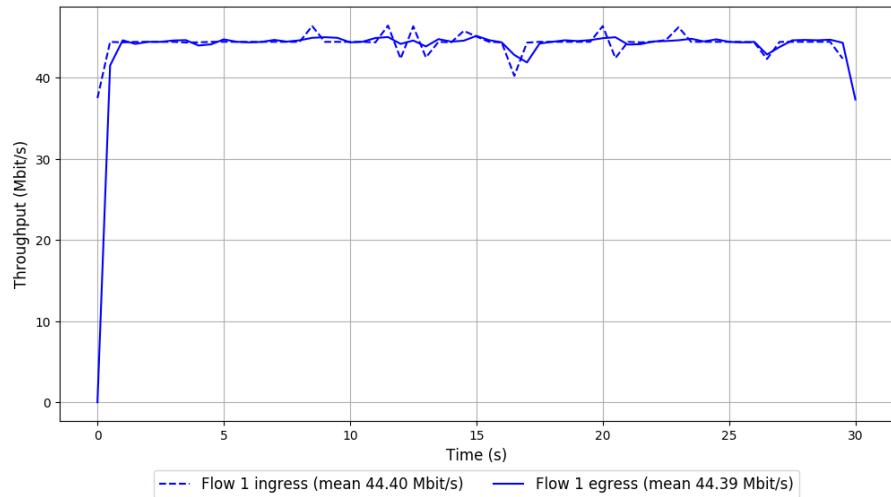


Run 8: Statistics of Sprout

```
Start at: 2018-06-19 03:58:47
End at: 2018-06-19 03:59:17
Local clock offset: -2.959 ms
Remote clock offset: 53.594 ms

# Below is generated by plot.py at 2018-06-19 04:57:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.39 Mbit/s
95th percentile per-packet one-way delay: -45.860 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 44.39 Mbit/s
95th percentile per-packet one-way delay: -45.860 ms
Loss rate: 0.01%
```

Run 8: Report of Sprout — Data Link

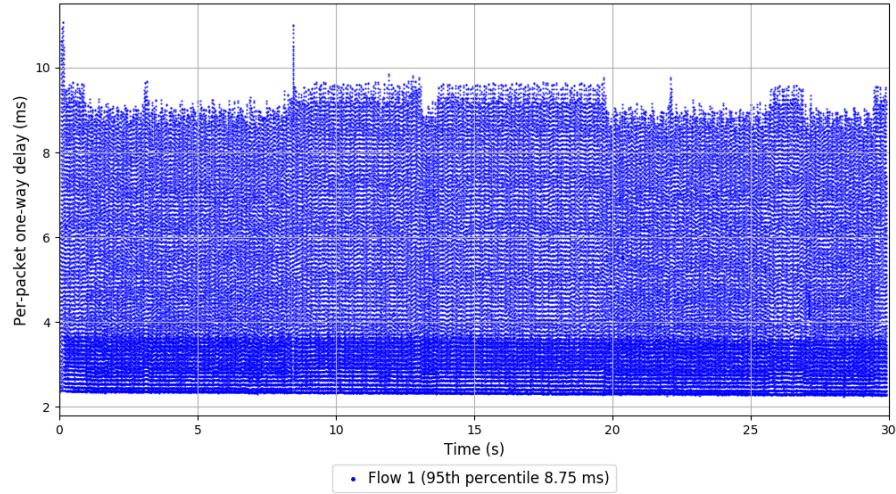
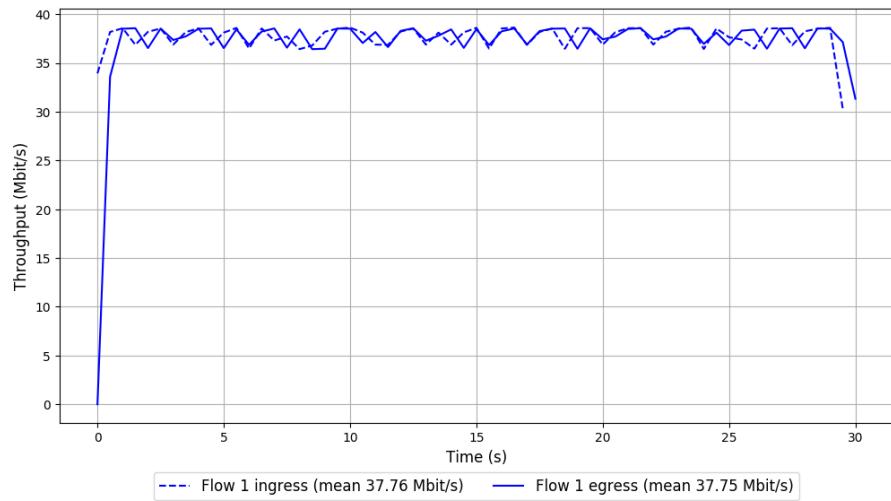


Run 9: Statistics of Sprout

```
Start at: 2018-06-19 04:16:41
End at: 2018-06-19 04:17:11
Local clock offset: -1.963 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-06-19 04:57:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.75 Mbit/s
95th percentile per-packet one-way delay: 8.754 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 37.75 Mbit/s
95th percentile per-packet one-way delay: 8.754 ms
Loss rate: 0.02%
```

Run 9: Report of Sprout — Data Link

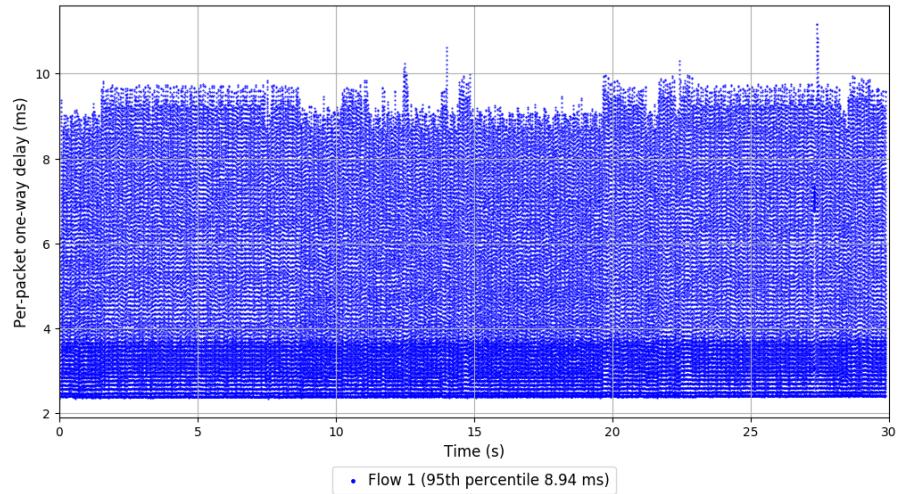
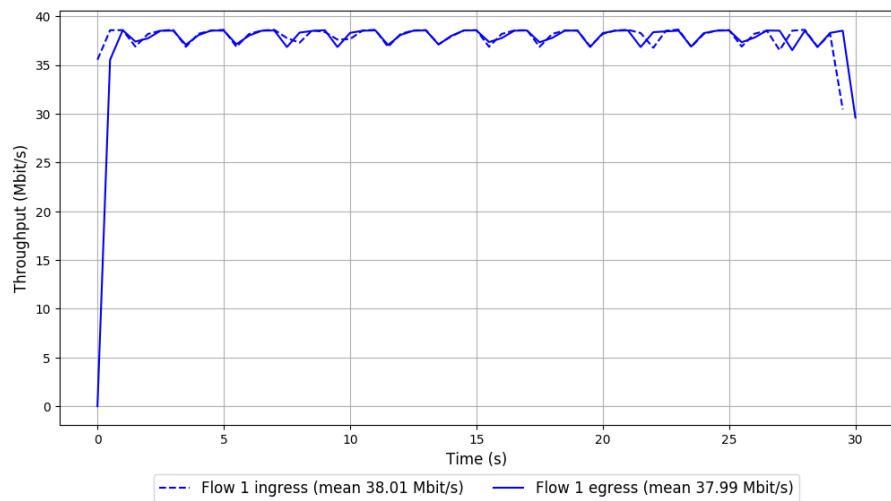


Run 10: Statistics of Sprout

```
Start at: 2018-06-19 04:34:37
End at: 2018-06-19 04:35:07
Local clock offset: -1.564 ms
Remote clock offset: -0.493 ms

# Below is generated by plot.py at 2018-06-19 04:57:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.99 Mbit/s
95th percentile per-packet one-way delay: 8.938 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 37.99 Mbit/s
95th percentile per-packet one-way delay: 8.938 ms
Loss rate: 0.04%
```

Run 10: Report of Sprout — Data Link

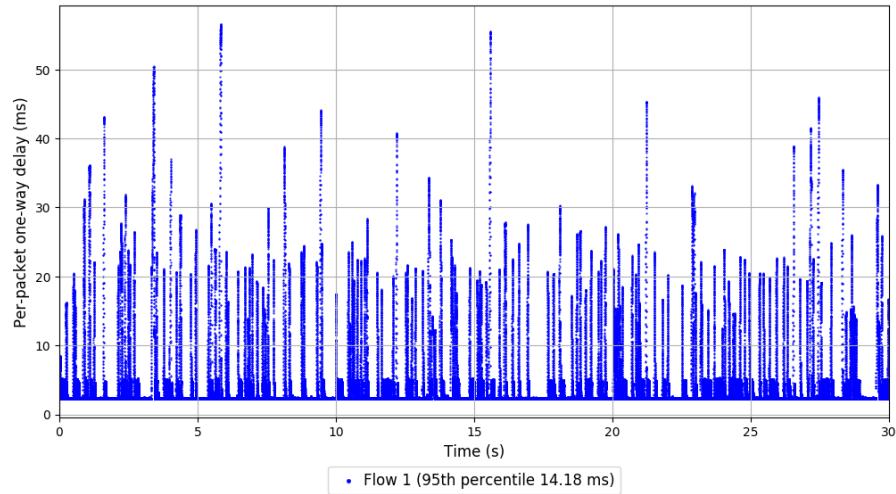
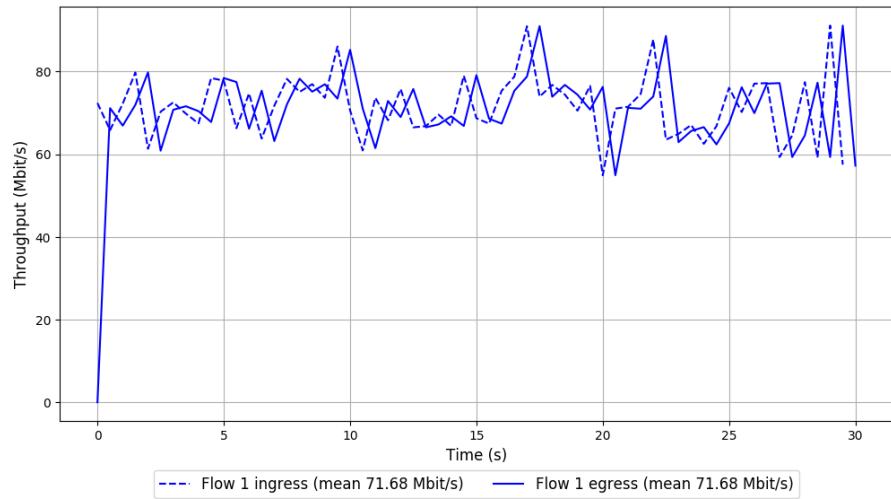


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-06-19 01:51:44
End at: 2018-06-19 01:52:14
Local clock offset: -1.923 ms
Remote clock offset: -1.416 ms

# Below is generated by plot.py at 2018-06-19 04:59:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.68 Mbit/s
95th percentile per-packet one-way delay: 14.184 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 71.68 Mbit/s
95th percentile per-packet one-way delay: 14.184 ms
Loss rate: 0.02%
```

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

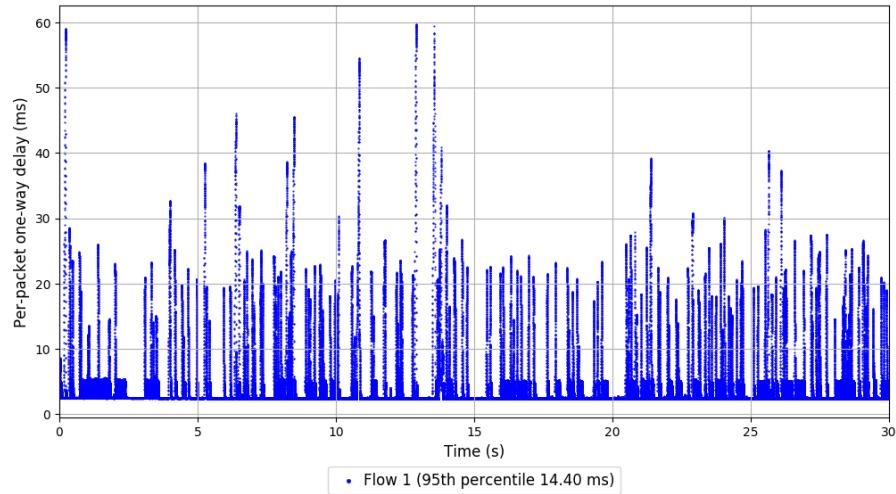
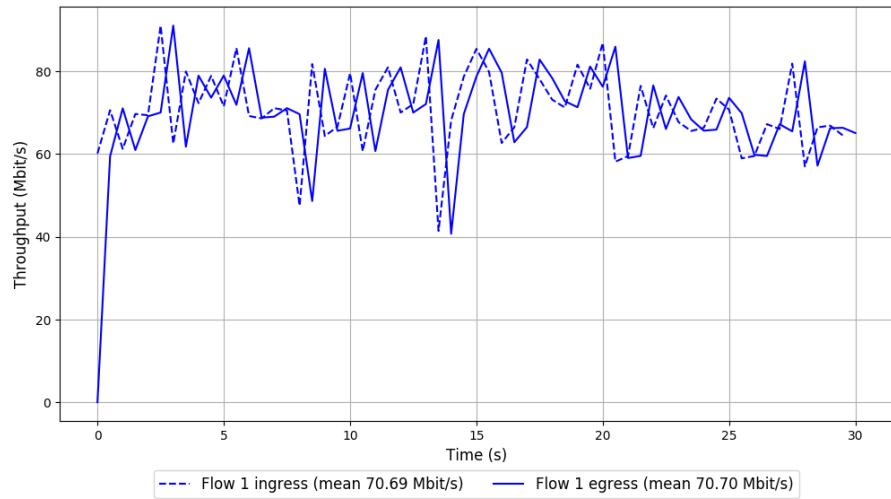


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-06-19 02:09:36
End at: 2018-06-19 02:10:06
Local clock offset: -2.228 ms
Remote clock offset: -7.244 ms

# Below is generated by plot.py at 2018-06-19 04:59:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.70 Mbit/s
95th percentile per-packet one-way delay: 14.403 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 70.70 Mbit/s
95th percentile per-packet one-way delay: 14.403 ms
Loss rate: 0.01%
```

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

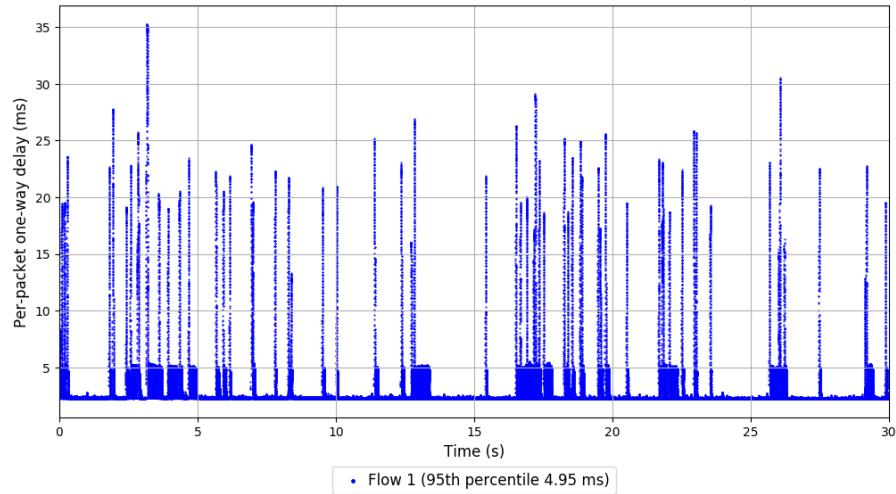
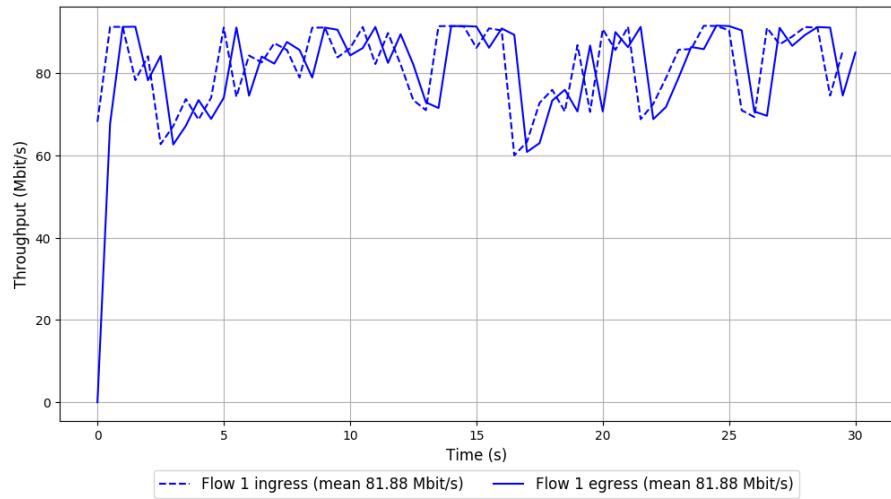


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-06-19 02:27:27
End at: 2018-06-19 02:27:57
Local clock offset: -2.783 ms
Remote clock offset: -9.583 ms

# Below is generated by plot.py at 2018-06-19 04:59:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.88 Mbit/s
95th percentile per-packet one-way delay: 4.951 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 81.88 Mbit/s
95th percentile per-packet one-way delay: 4.951 ms
Loss rate: 0.02%
```

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

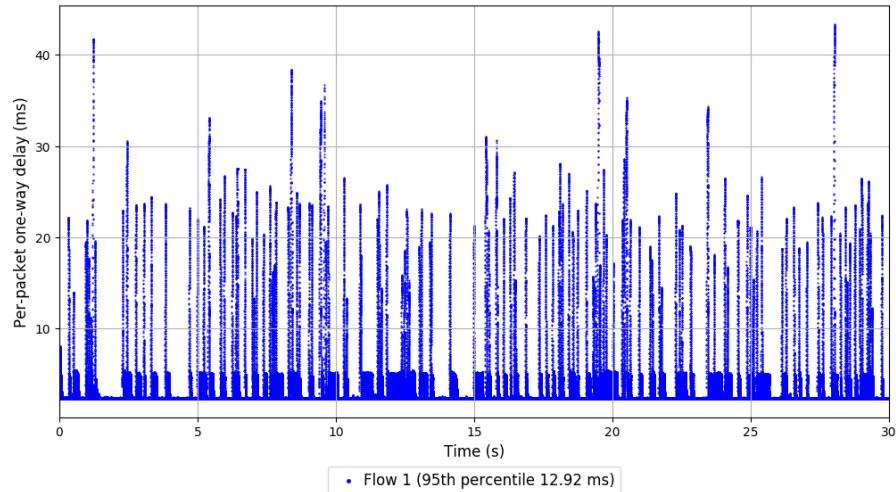
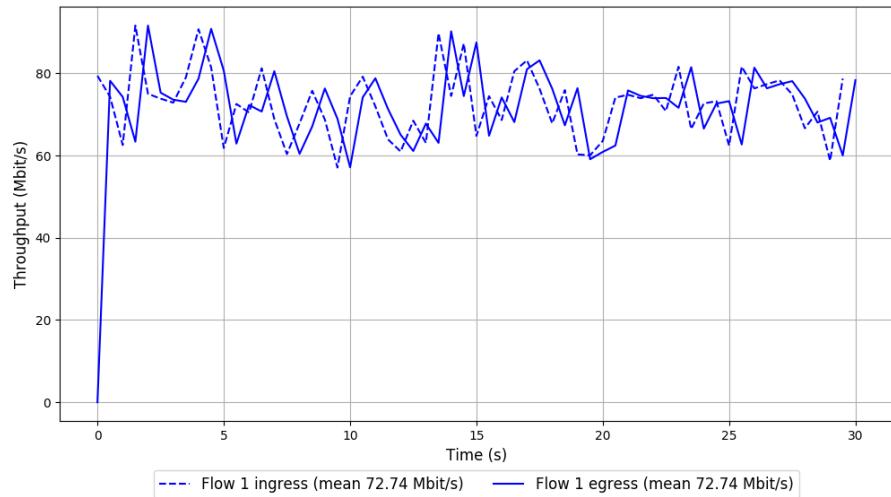


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-06-19 02:45:19
End at: 2018-06-19 02:45:49
Local clock offset: -2.079 ms
Remote clock offset: -7.771 ms

# Below is generated by plot.py at 2018-06-19 04:59:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.74 Mbit/s
95th percentile per-packet one-way delay: 12.918 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 72.74 Mbit/s
95th percentile per-packet one-way delay: 12.918 ms
Loss rate: 0.02%
```

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

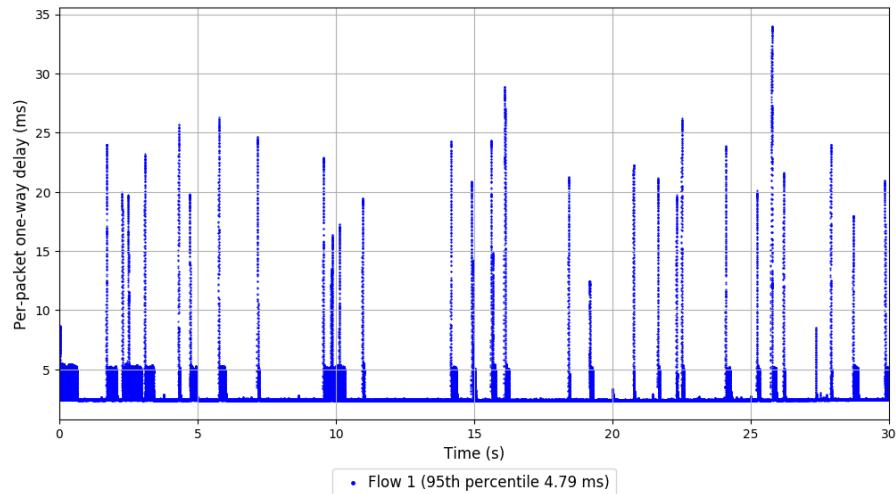
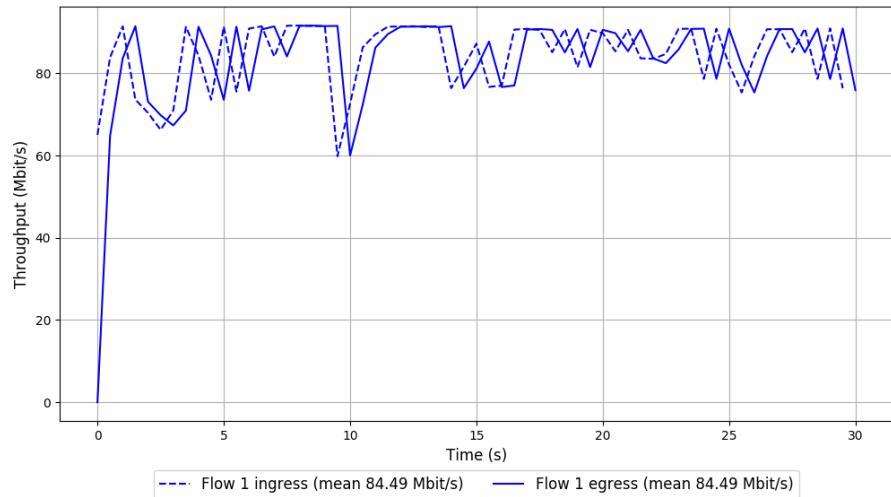


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-06-19 03:03:09
End at: 2018-06-19 03:03:39
Local clock offset: -1.791 ms
Remote clock offset: -8.22 ms

# Below is generated by plot.py at 2018-06-19 04:59:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.49 Mbit/s
95th percentile per-packet one-way delay: 4.795 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 84.49 Mbit/s
95th percentile per-packet one-way delay: 4.795 ms
Loss rate: 0.02%
```

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

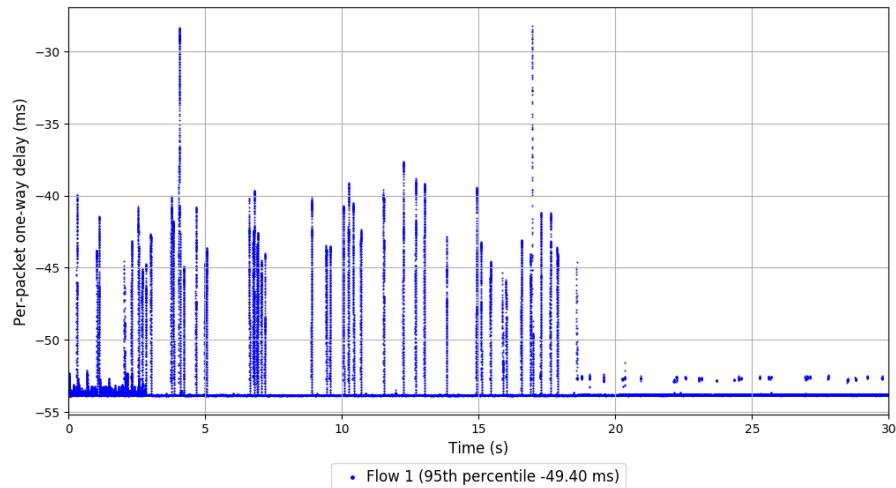
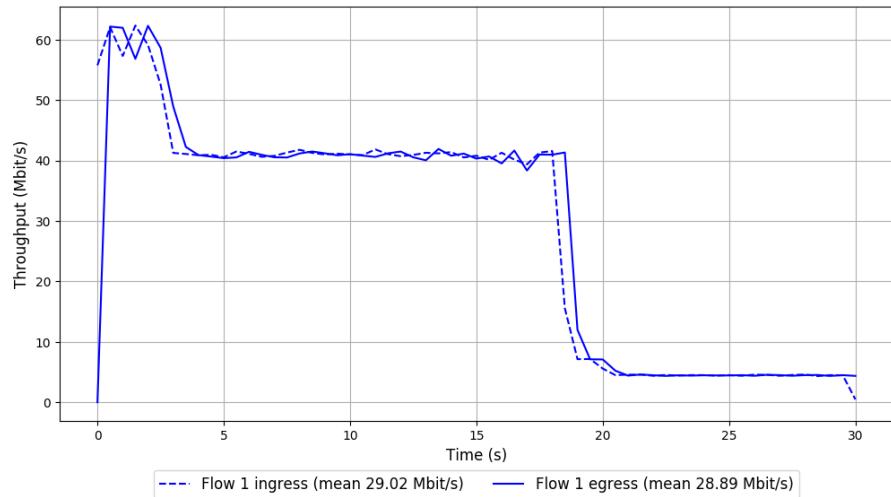


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-06-19 03:21:00
End at: 2018-06-19 03:21:30
Local clock offset: -2.745 ms
Remote clock offset: 47.5 ms

# Below is generated by plot.py at 2018-06-19 04:59:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.89 Mbit/s
95th percentile per-packet one-way delay: -49.400 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 28.89 Mbit/s
95th percentile per-packet one-way delay: -49.400 ms
Loss rate: 0.44%
```

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

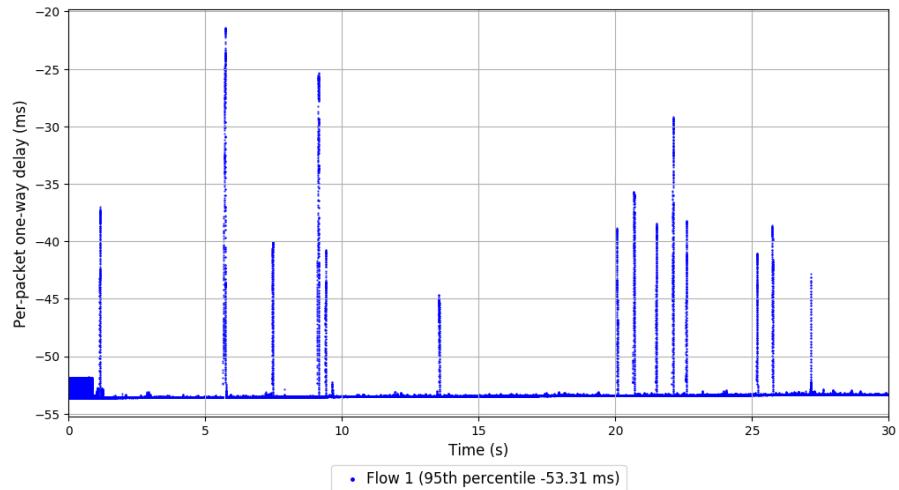
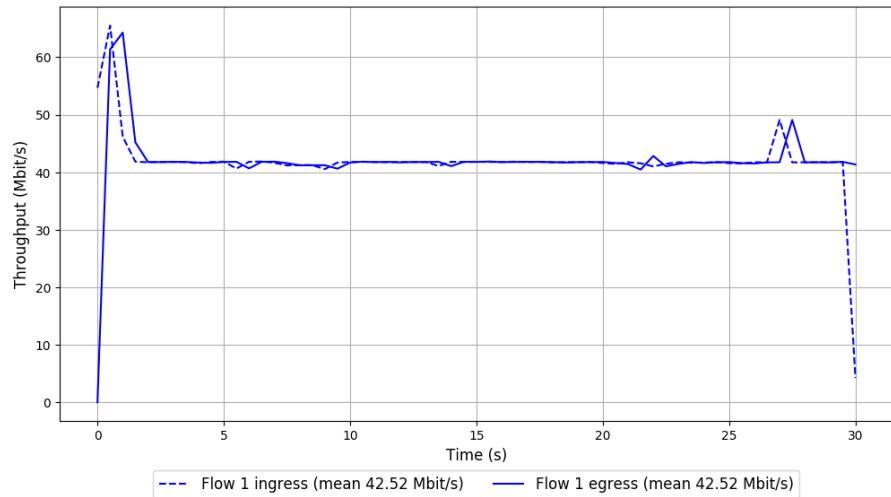


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-06-19 03:38:51
End at: 2018-06-19 03:39:21
Local clock offset: -2.878 ms
Remote clock offset: 48.052 ms

# Below is generated by plot.py at 2018-06-19 04:59:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.52 Mbit/s
95th percentile per-packet one-way delay: -53.312 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 42.52 Mbit/s
95th percentile per-packet one-way delay: -53.312 ms
Loss rate: 0.01%
```

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

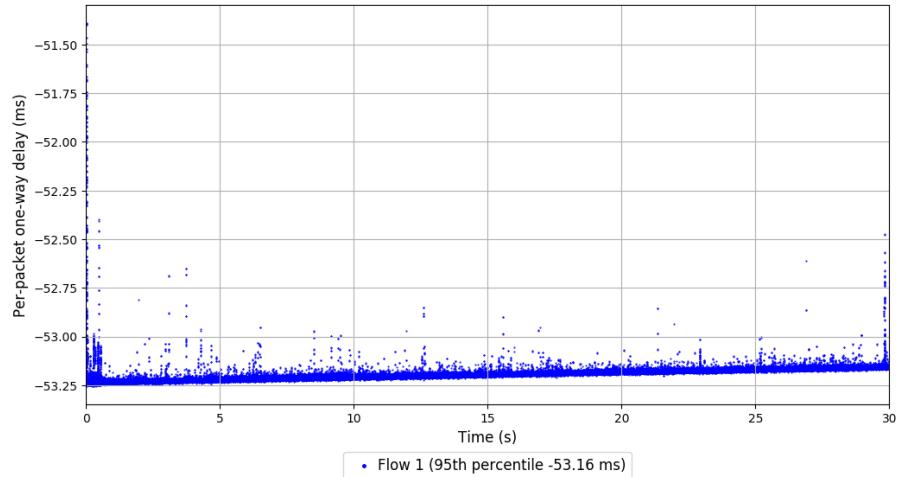
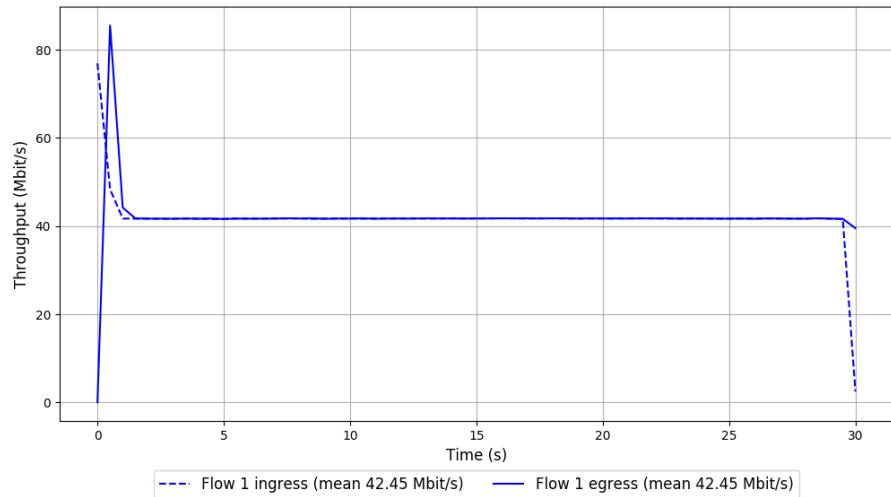


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-06-19 03:56:33
End at: 2018-06-19 03:57:03
Local clock offset: -2.948 ms
Remote clock offset: 53.136 ms

# Below is generated by plot.py at 2018-06-19 04:59:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.45 Mbit/s
95th percentile per-packet one-way delay: -53.161 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.45 Mbit/s
95th percentile per-packet one-way delay: -53.161 ms
Loss rate: 0.00%
```

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

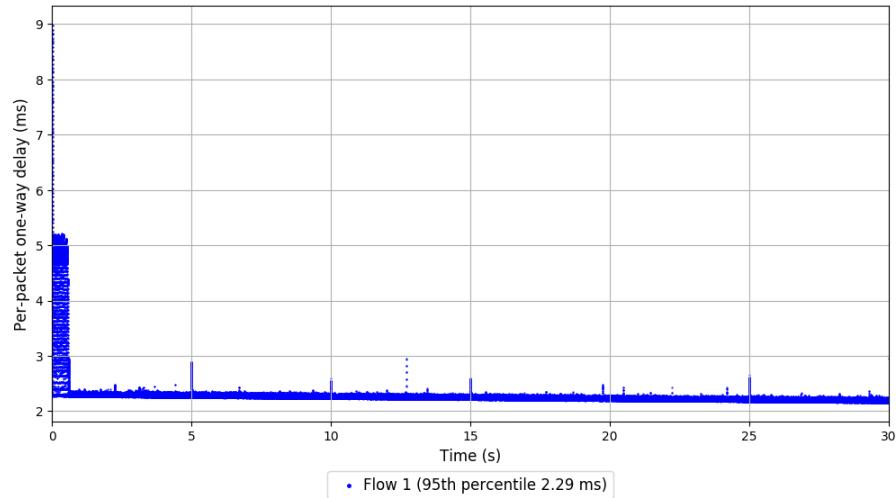
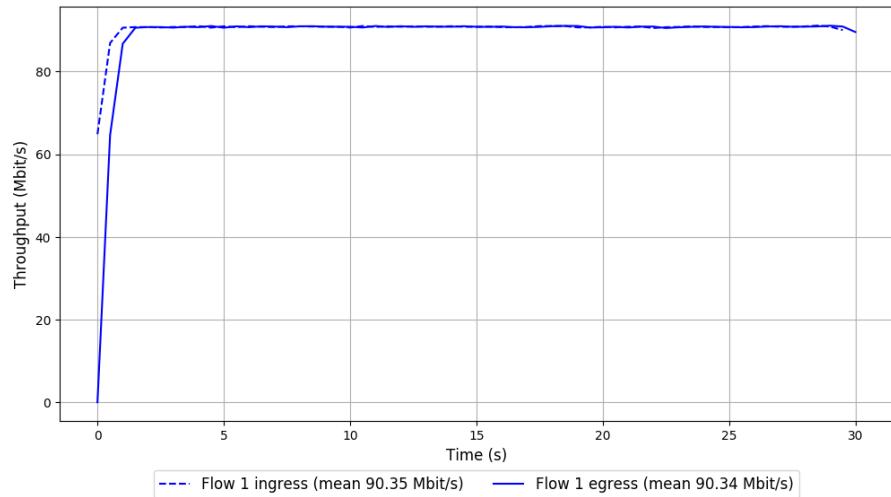


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-06-19 04:14:24
End at: 2018-06-19 04:14:54
Local clock offset: -2.075 ms
Remote clock offset: 0.396 ms

# Below is generated by plot.py at 2018-06-19 05:00:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.34 Mbit/s
95th percentile per-packet one-way delay: 2.295 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.34 Mbit/s
95th percentile per-packet one-way delay: 2.295 ms
Loss rate: 0.02%
```

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

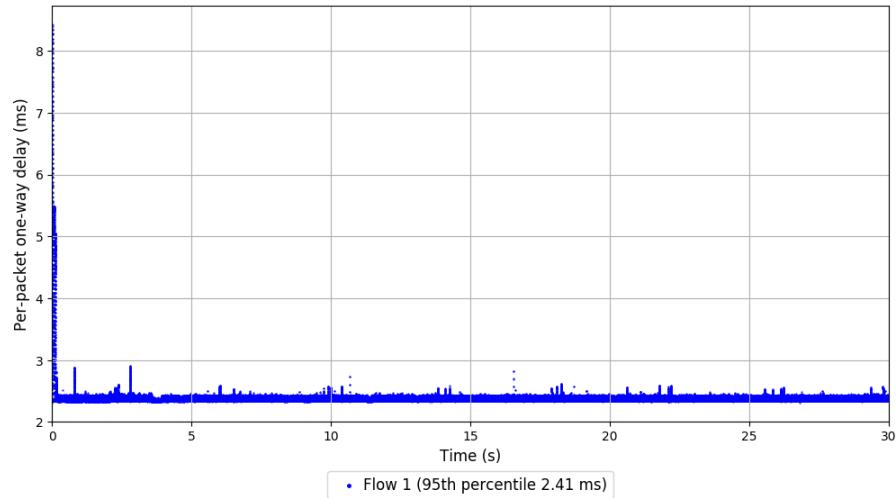
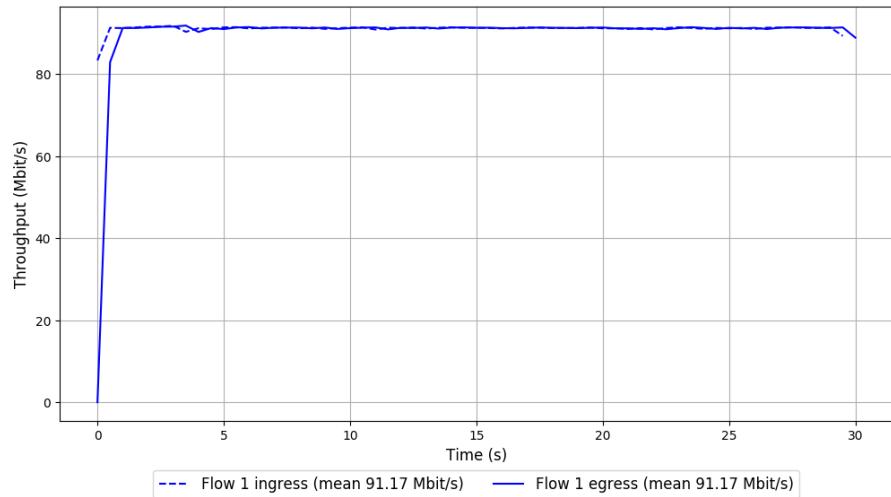


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-06-19 04:32:20
End at: 2018-06-19 04:32:50
Local clock offset: -1.573 ms
Remote clock offset: -0.551 ms

# Below is generated by plot.py at 2018-06-19 05:00:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.17 Mbit/s
95th percentile per-packet one-way delay: 2.409 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.17 Mbit/s
95th percentile per-packet one-way delay: 2.409 ms
Loss rate: 0.02%
```

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

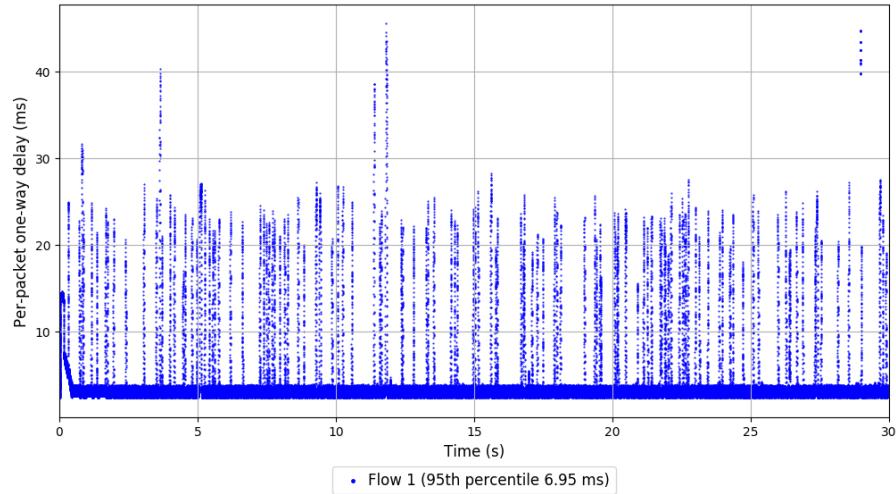
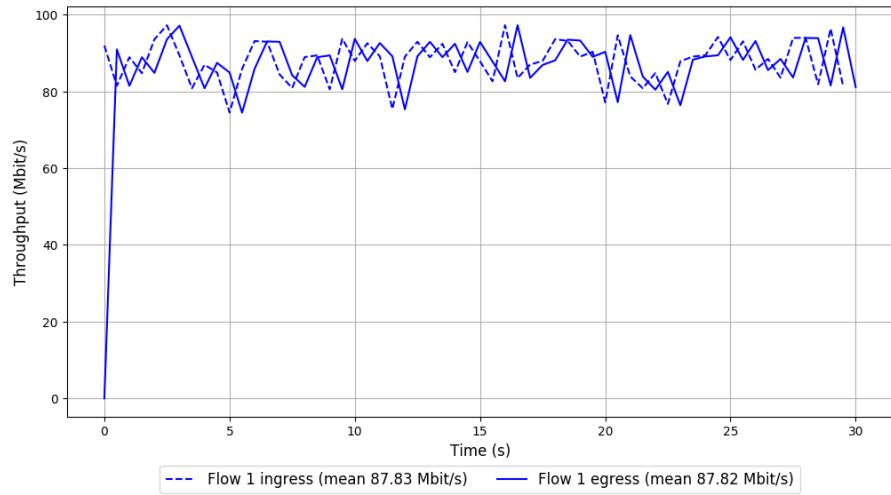


Run 1: Statistics of TCP Vegas

```
Start at: 2018-06-19 01:52:53
End at: 2018-06-19 01:53:23
Local clock offset: -1.868 ms
Remote clock offset: -1.481 ms

# Below is generated by plot.py at 2018-06-19 05:00:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.82 Mbit/s
95th percentile per-packet one-way delay: 6.948 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.82 Mbit/s
95th percentile per-packet one-way delay: 6.948 ms
Loss rate: 0.02%
```

Run 1: Report of TCP Vegas — Data Link

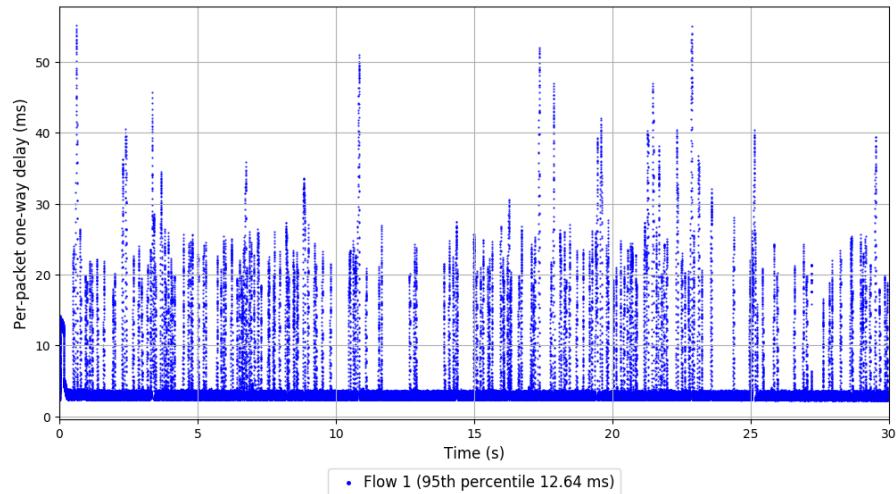
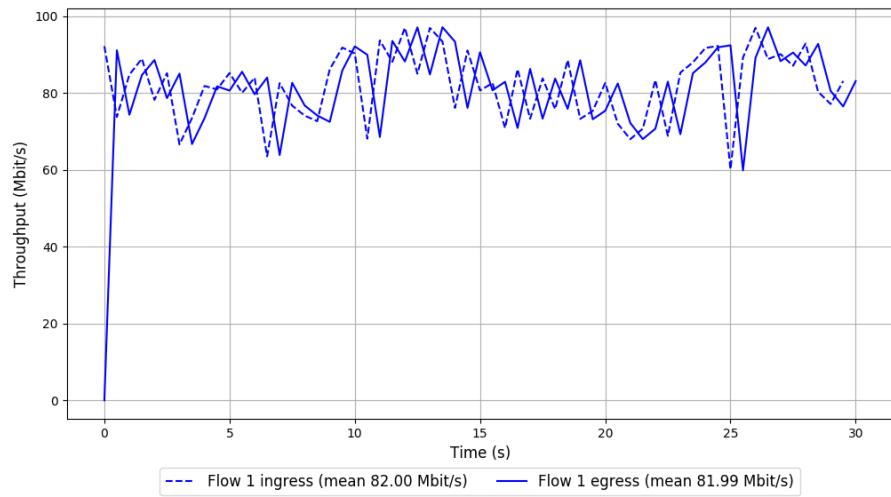


Run 2: Statistics of TCP Vegas

```
Start at: 2018-06-19 02:10:45
End at: 2018-06-19 02:11:15
Local clock offset: -2.294 ms
Remote clock offset: -7.425 ms

# Below is generated by plot.py at 2018-06-19 05:00:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.99 Mbit/s
95th percentile per-packet one-way delay: 12.637 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 81.99 Mbit/s
95th percentile per-packet one-way delay: 12.637 ms
Loss rate: 0.02%
```

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

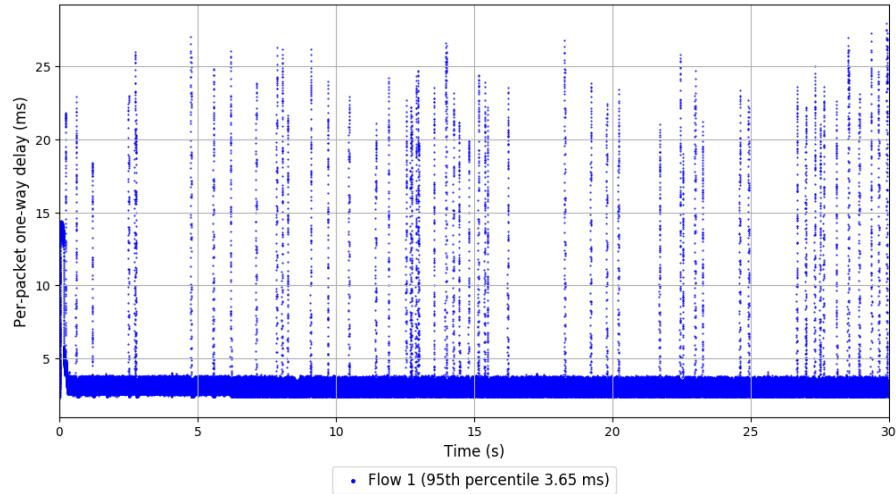
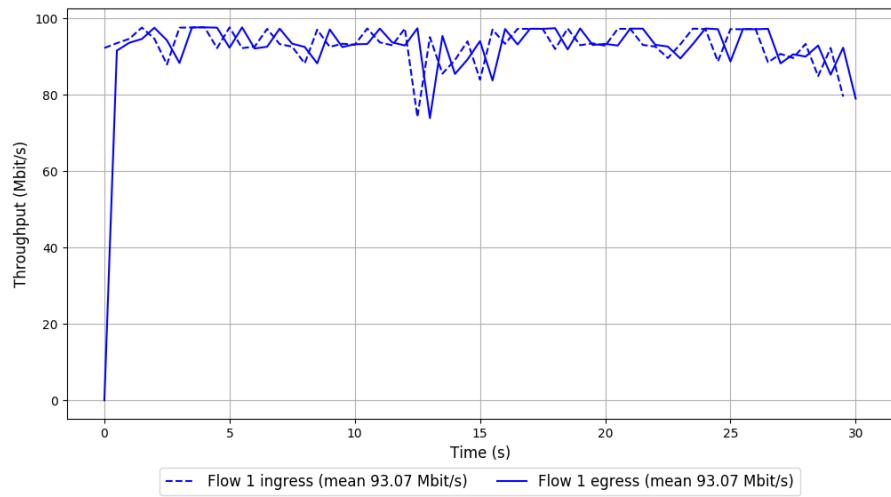


Run 3: Statistics of TCP Vegas

```
Start at: 2018-06-19 02:28:36
End at: 2018-06-19 02:29:06
Local clock offset: -2.725 ms
Remote clock offset: -9.711 ms

# Below is generated by plot.py at 2018-06-19 05:00:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 3.654 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 3.654 ms
Loss rate: 0.02%
```

Run 3: Report of TCP Vegas — Data Link

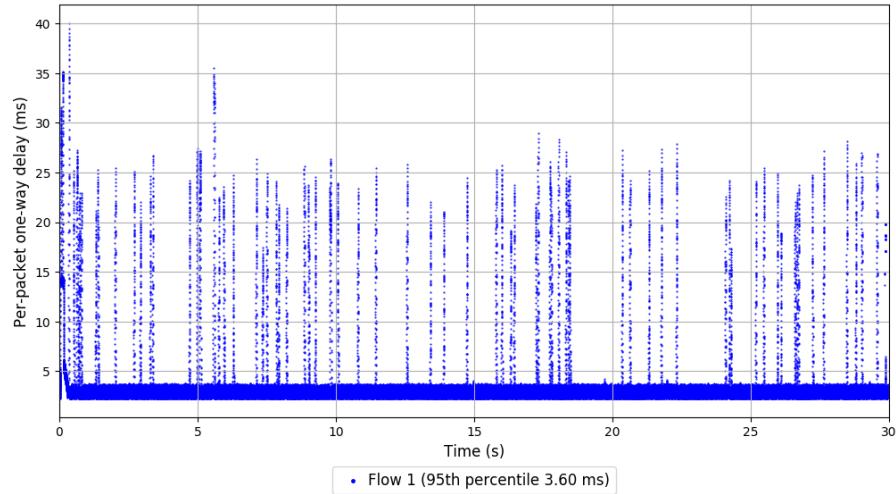
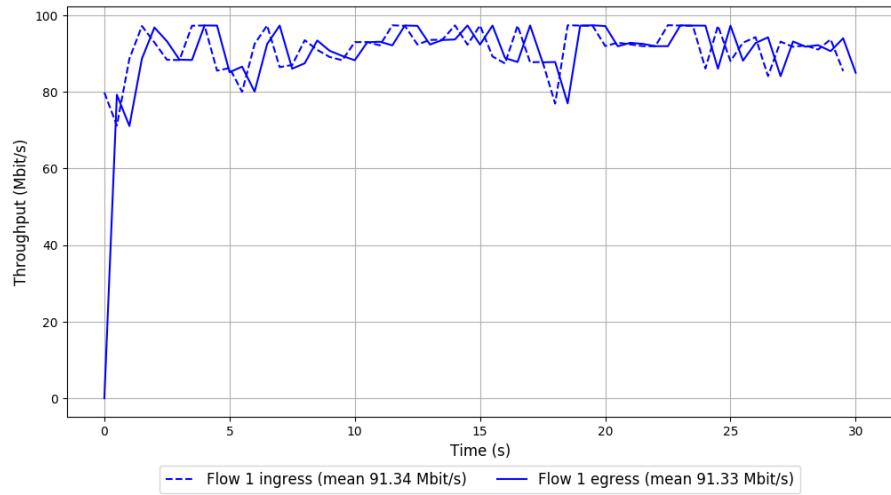


Run 4: Statistics of TCP Vegas

```
Start at: 2018-06-19 02:46:28
End at: 2018-06-19 02:46:58
Local clock offset: -2.123 ms
Remote clock offset: -7.768 ms

# Below is generated by plot.py at 2018-06-19 05:00:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 3.602 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 3.602 ms
Loss rate: 0.02%
```

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

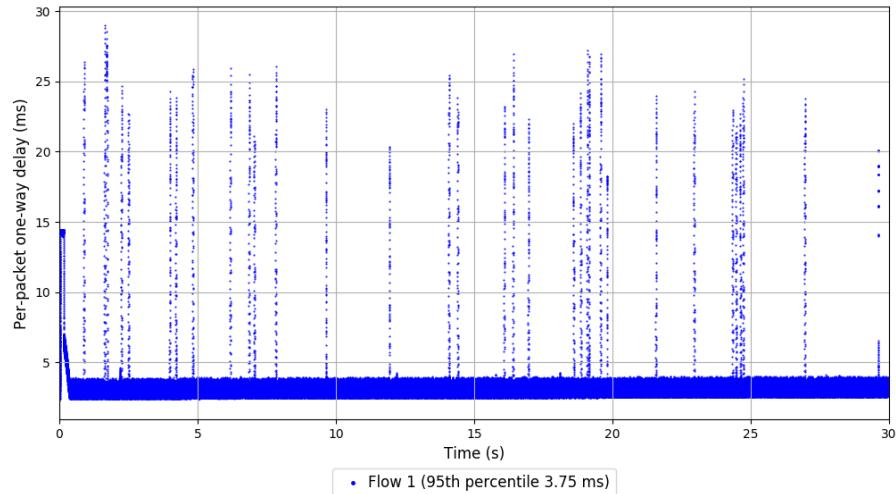
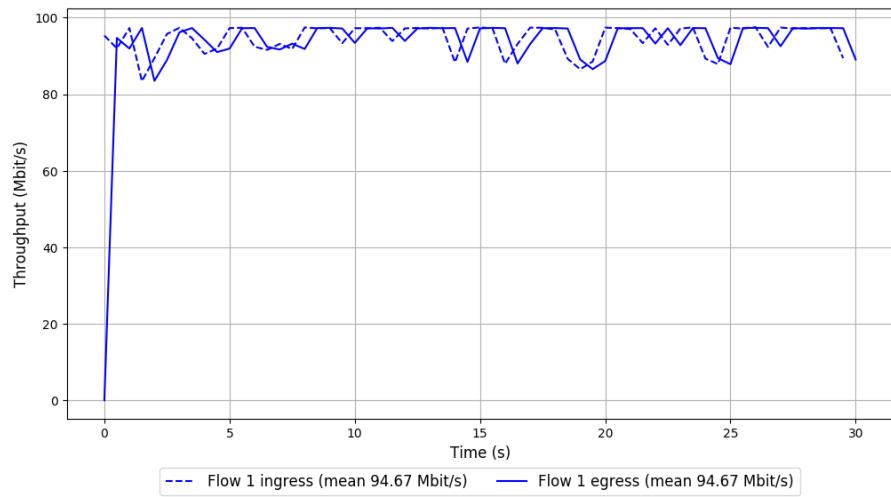


Run 5: Statistics of TCP Vegas

```
Start at: 2018-06-19 03:04:18
End at: 2018-06-19 03:04:48
Local clock offset: -1.811 ms
Remote clock offset: -8.037 ms

# Below is generated by plot.py at 2018-06-19 05:00:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.67 Mbit/s
95th percentile per-packet one-way delay: 3.755 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.67 Mbit/s
95th percentile per-packet one-way delay: 3.755 ms
Loss rate: 0.02%
```

Run 5: Report of TCP Vegas — Data Link

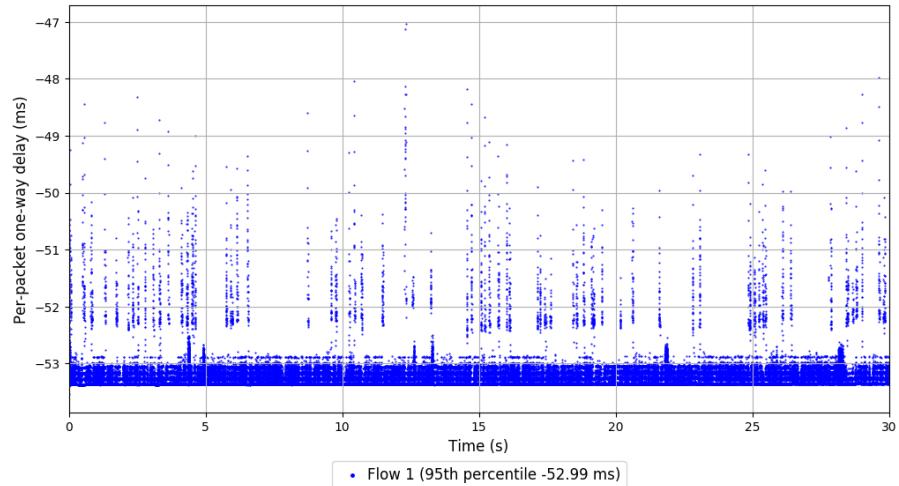
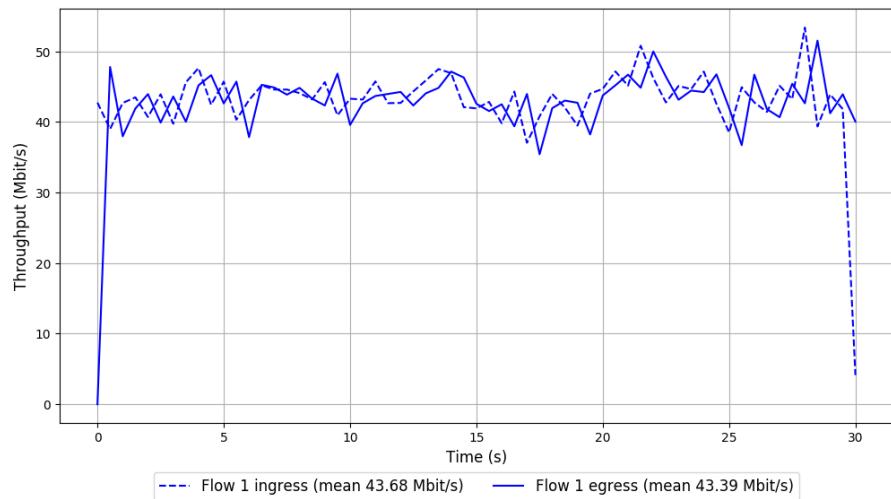


Run 6: Statistics of TCP Vegas

```
Start at: 2018-06-19 03:22:06
End at: 2018-06-19 03:22:36
Local clock offset: -2.781 ms
Remote clock offset: 47.229 ms

# Below is generated by plot.py at 2018-06-19 05:00:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.39 Mbit/s
95th percentile per-packet one-way delay: -52.989 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 43.39 Mbit/s
95th percentile per-packet one-way delay: -52.989 ms
Loss rate: 0.69%
```

Run 6: Report of TCP Vegas — Data Link

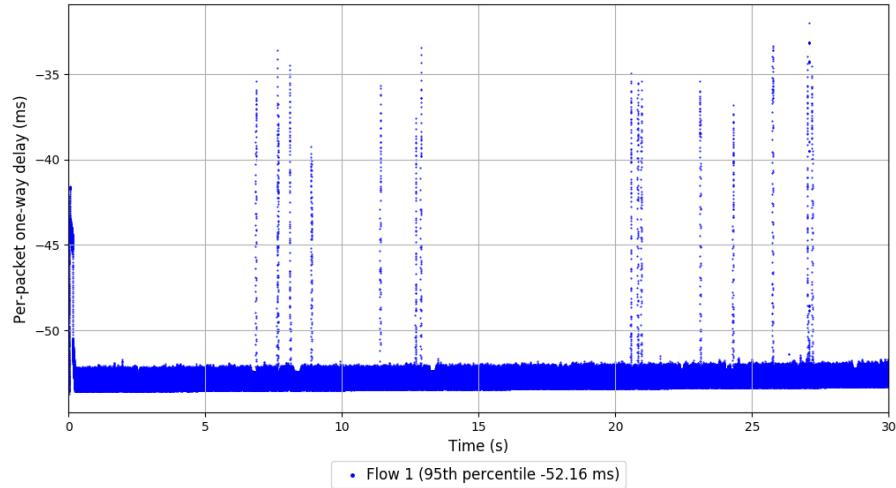
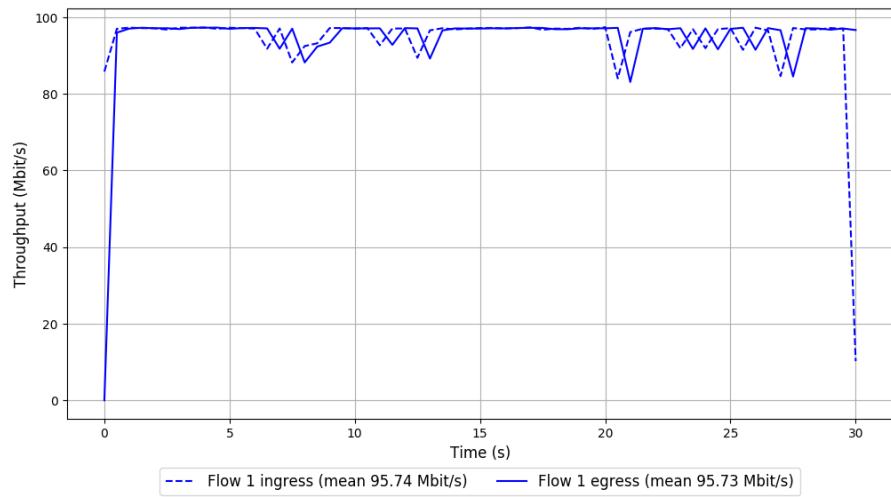


Run 7: Statistics of TCP Vegas

```
Start at: 2018-06-19 03:39:57
End at: 2018-06-19 03:40:27
Local clock offset: -2.885 ms
Remote clock offset: 48.649 ms

# Below is generated by plot.py at 2018-06-19 05:01:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.73 Mbit/s
95th percentile per-packet one-way delay: -52.164 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.73 Mbit/s
95th percentile per-packet one-way delay: -52.164 ms
Loss rate: 0.01%
```

Run 7: Report of TCP Vegas — Data Link

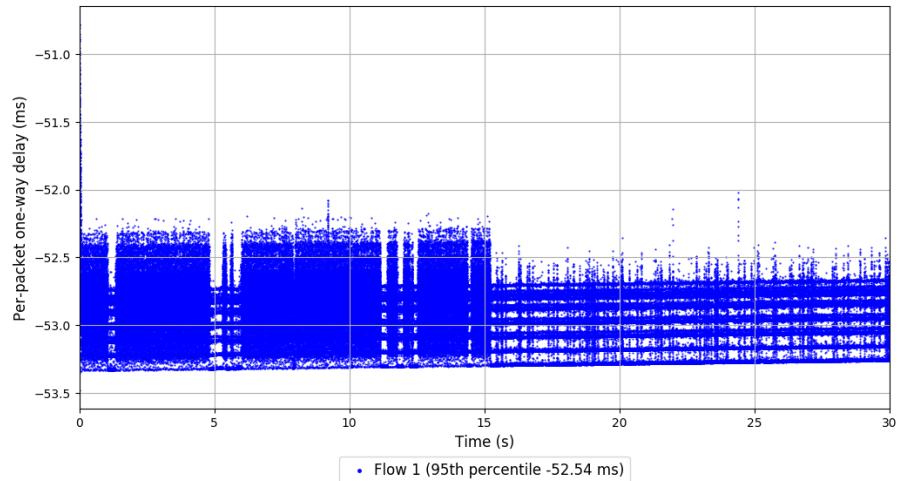
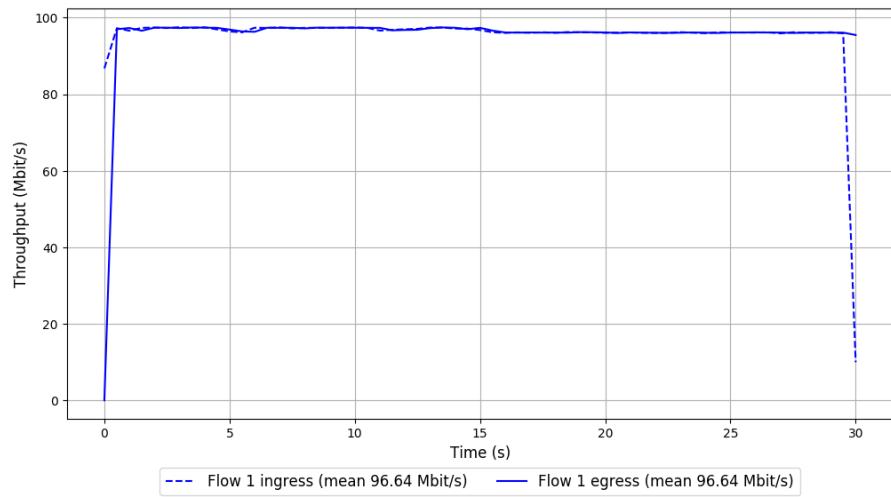


Run 8: Statistics of TCP Vegas

```
Start at: 2018-06-19 03:57:40
End at: 2018-06-19 03:58:10
Local clock offset: -2.952 ms
Remote clock offset: 53.406 ms

# Below is generated by plot.py at 2018-06-19 05:01:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.64 Mbit/s
95th percentile per-packet one-way delay: -52.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.64 Mbit/s
95th percentile per-packet one-way delay: -52.544 ms
Loss rate: 0.00%
```

Run 8: Report of TCP Vegas — Data Link

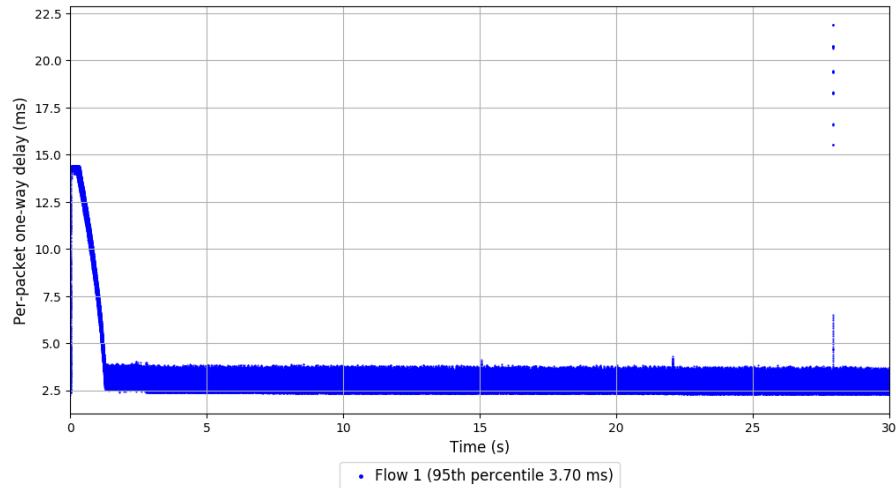
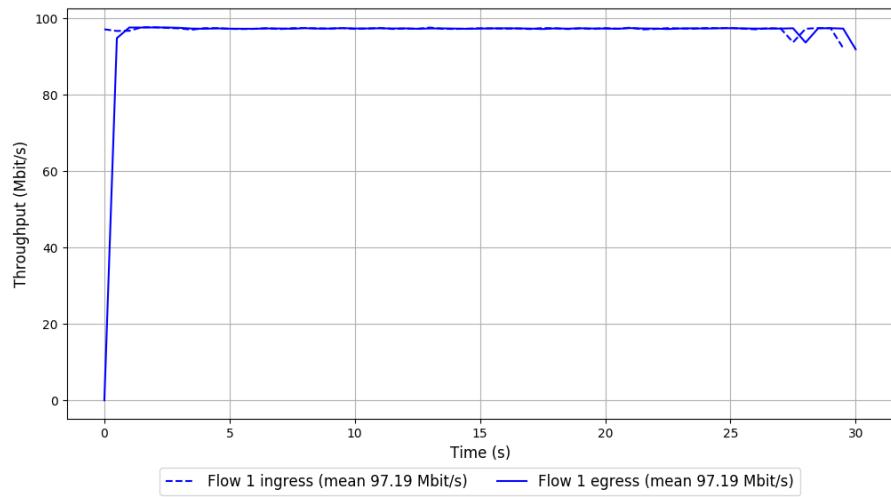


Run 9: Statistics of TCP Vegas

```
Start at: 2018-06-19 04:15:34
End at: 2018-06-19 04:16:04
Local clock offset: -2.008 ms
Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2018-06-19 05:01:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 3.699 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 3.699 ms
Loss rate: 0.02%
```

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

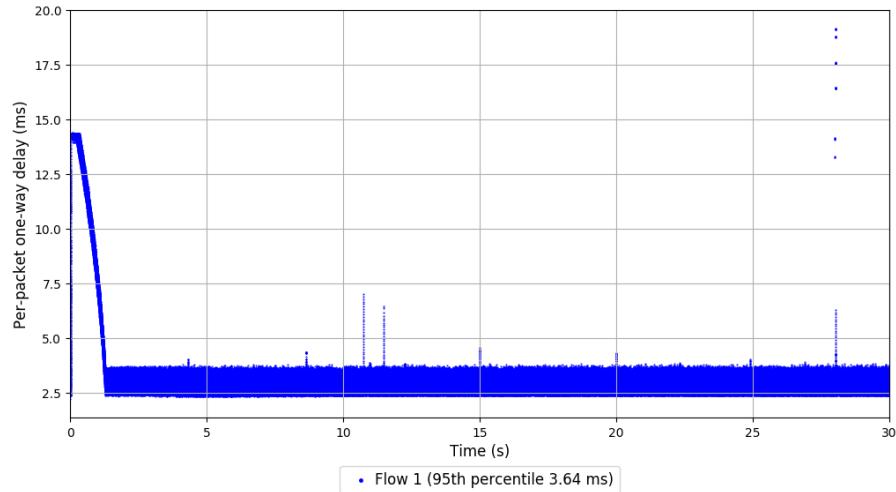
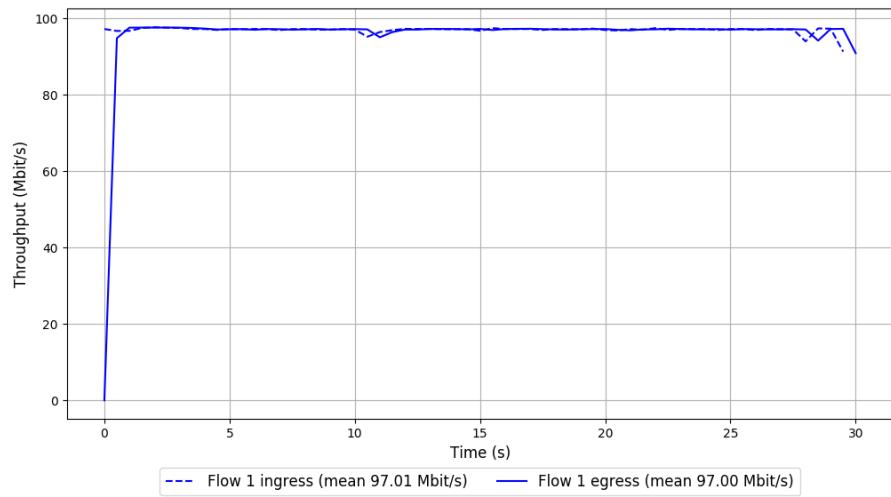


Run 10: Statistics of TCP Vegas

```
Start at: 2018-06-19 04:33:30
End at: 2018-06-19 04:34:00
Local clock offset: -1.563 ms
Remote clock offset: -0.527 ms

# Below is generated by plot.py at 2018-06-19 05:01:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.00 Mbit/s
95th percentile per-packet one-way delay: 3.636 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.00 Mbit/s
95th percentile per-packet one-way delay: 3.636 ms
Loss rate: 0.02%
```

Run 10: Report of TCP Vegas — Data Link

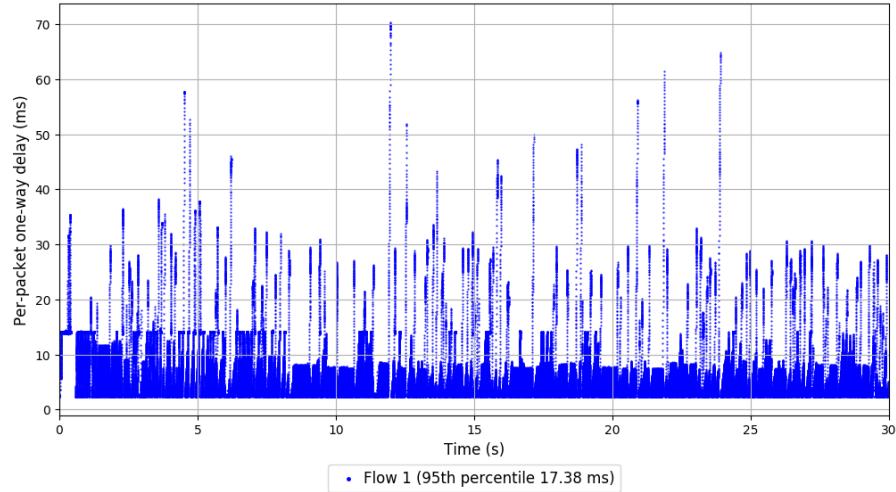
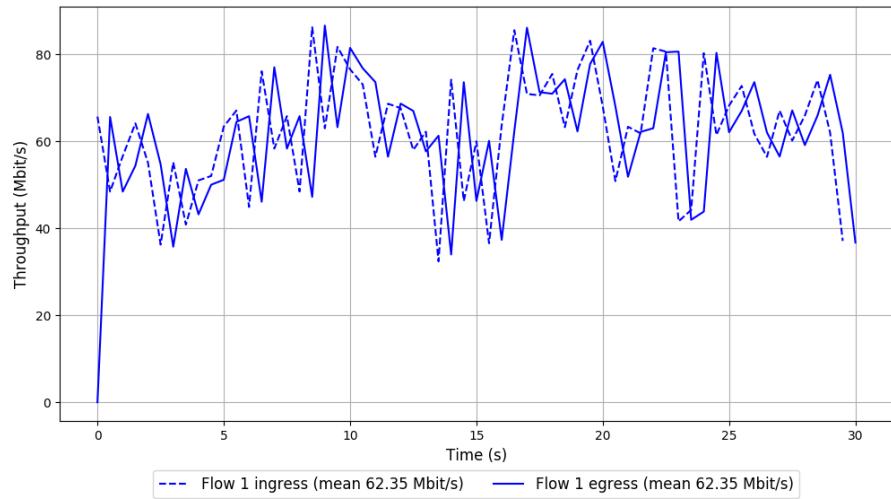


Run 1: Statistics of Verus

```
Start at: 2018-06-19 01:47:24
End at: 2018-06-19 01:47:54
Local clock offset: -1.864 ms
Remote clock offset: -1.457 ms

# Below is generated by plot.py at 2018-06-19 05:01:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.35 Mbit/s
95th percentile per-packet one-way delay: 17.384 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 62.35 Mbit/s
95th percentile per-packet one-way delay: 17.384 ms
Loss rate: 0.01%
```

Run 1: Report of Verus — Data Link

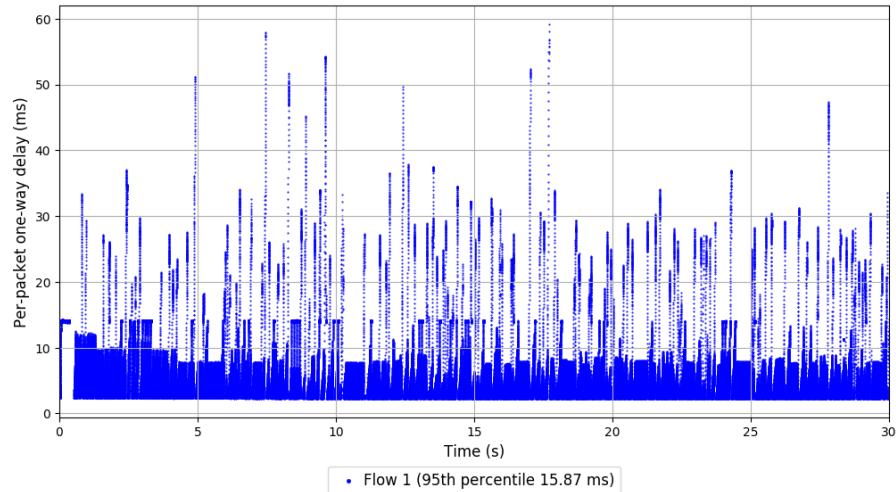
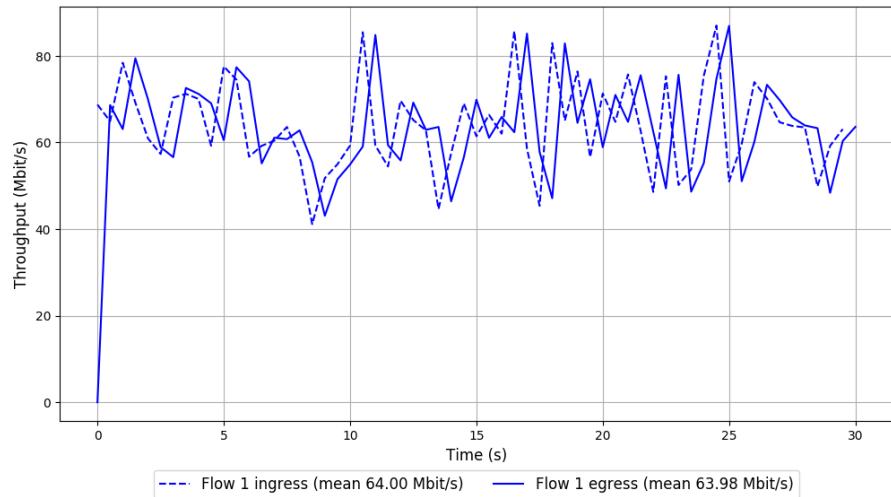


Run 2: Statistics of Verus

```
Start at: 2018-06-19 02:05:16
End at: 2018-06-19 02:05:46
Local clock offset: -1.951 ms
Remote clock offset: -6.088 ms

# Below is generated by plot.py at 2018-06-19 05:01:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.98 Mbit/s
95th percentile per-packet one-way delay: 15.874 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.98 Mbit/s
95th percentile per-packet one-way delay: 15.874 ms
Loss rate: 0.00%
```

## Run 2: Report of Verus — Data Link

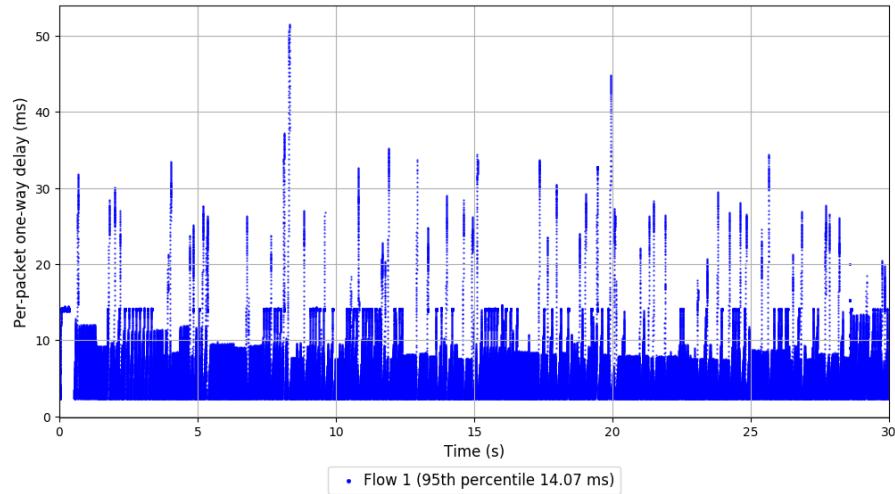
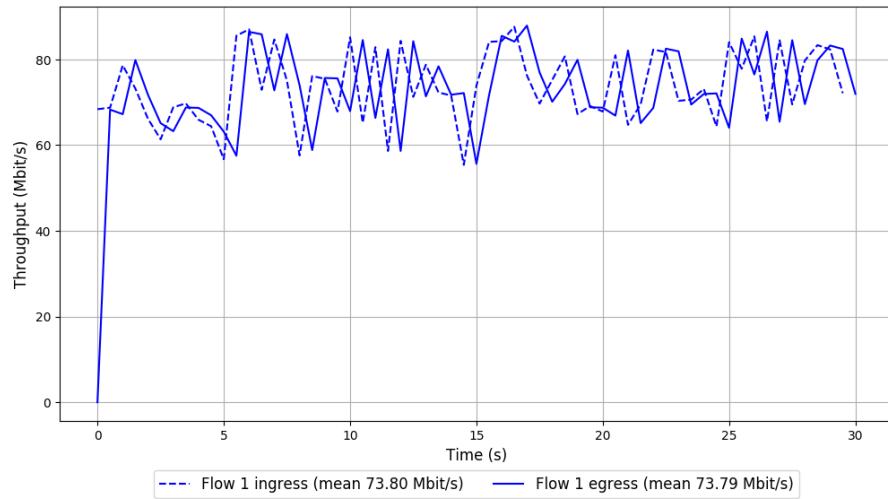


Run 3: Statistics of Verus

```
Start at: 2018-06-19 02:23:06
End at: 2018-06-19 02:23:36
Local clock offset: -2.632 ms
Remote clock offset: -9.119 ms

# Below is generated by plot.py at 2018-06-19 05:01:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.79 Mbit/s
95th percentile per-packet one-way delay: 14.073 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 73.79 Mbit/s
95th percentile per-packet one-way delay: 14.073 ms
Loss rate: 0.02%
```

Run 3: Report of Verus — Data Link

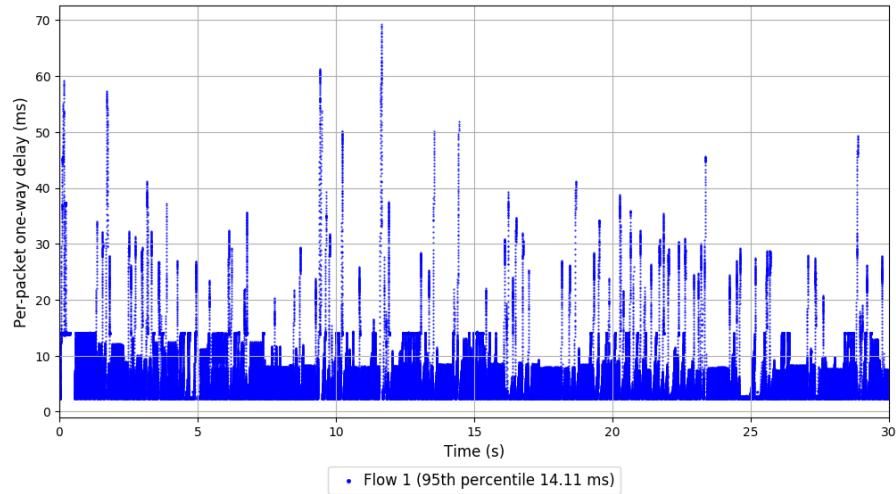
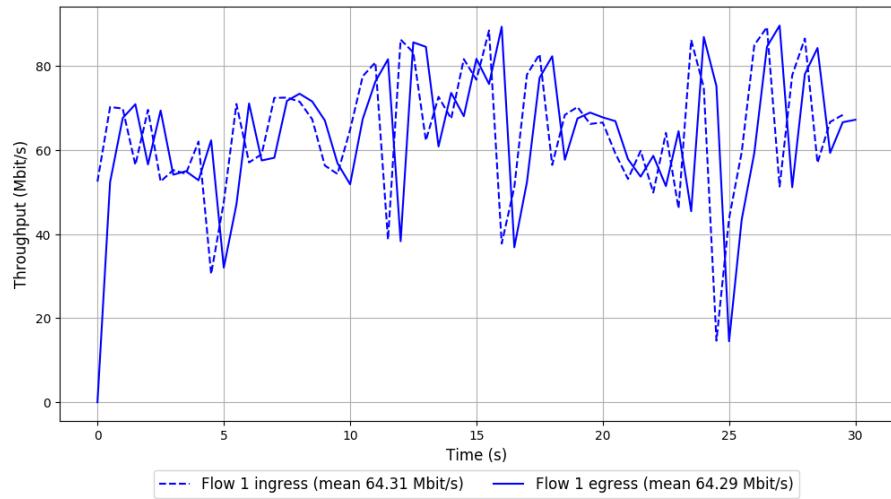


Run 4: Statistics of Verus

```
Start at: 2018-06-19 02:40:59
End at: 2018-06-19 02:41:29
Local clock offset: -2.279 ms
Remote clock offset: -7.874 ms

# Below is generated by plot.py at 2018-06-19 05:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.29 Mbit/s
95th percentile per-packet one-way delay: 14.111 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 64.29 Mbit/s
95th percentile per-packet one-way delay: 14.111 ms
Loss rate: 0.04%
```

Run 4: Report of Verus — Data Link

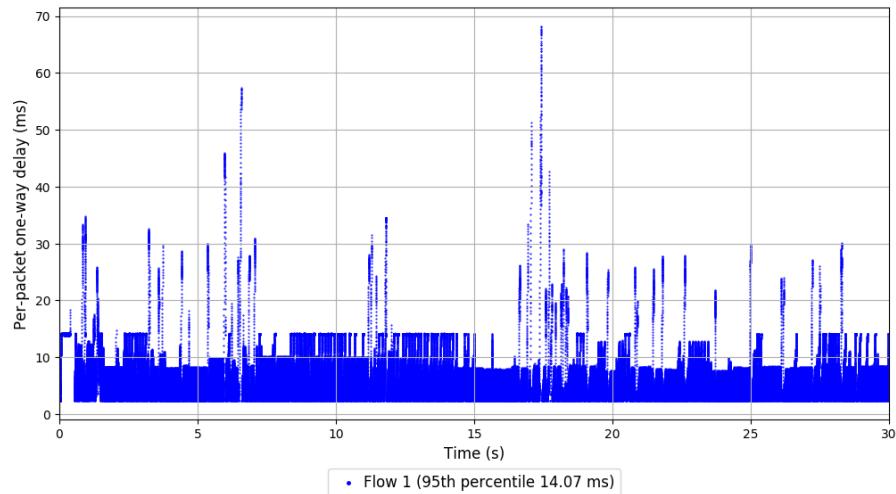
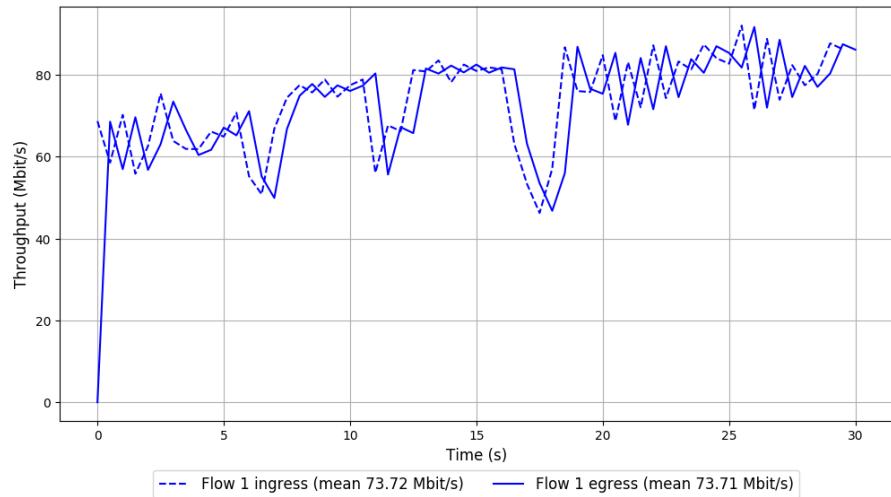


Run 5: Statistics of Verus

```
Start at: 2018-06-19 02:58:48
End at: 2018-06-19 02:59:18
Local clock offset: -1.833 ms
Remote clock offset: -8.0 ms

# Below is generated by plot.py at 2018-06-19 05:01:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.71 Mbit/s
95th percentile per-packet one-way delay: 14.071 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 73.71 Mbit/s
95th percentile per-packet one-way delay: 14.071 ms
Loss rate: 0.03%
```

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

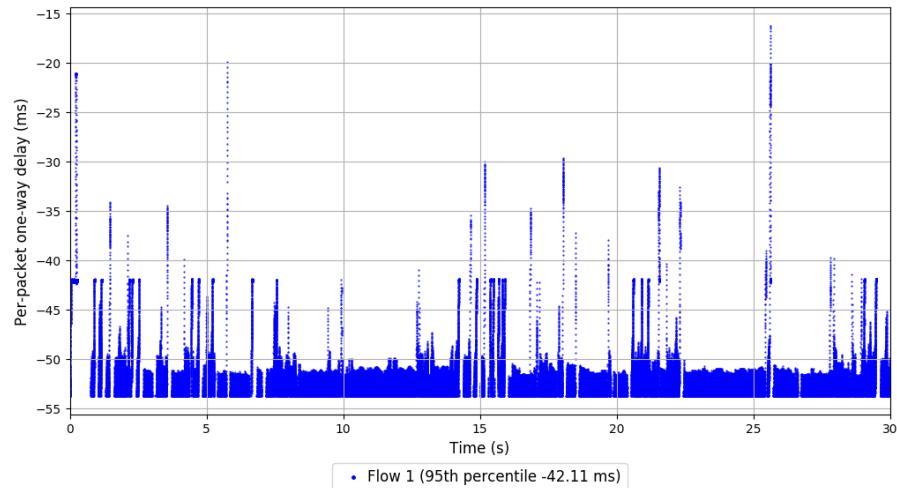
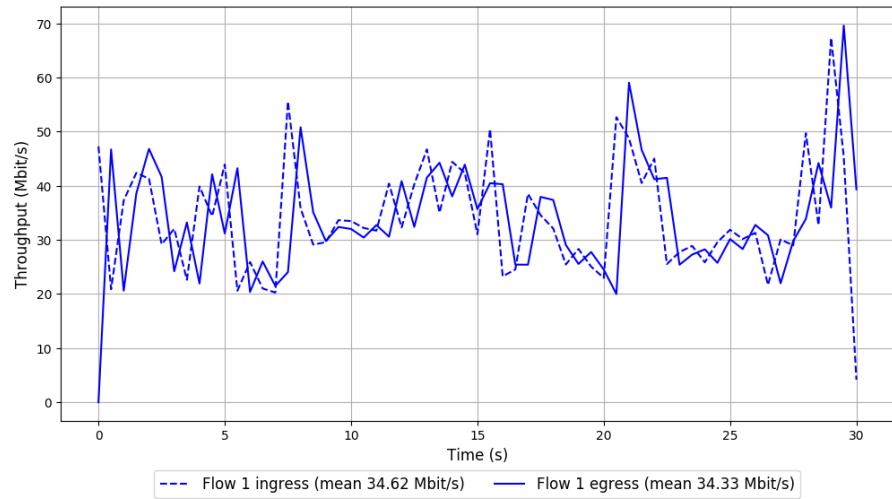


Run 6: Statistics of Verus

```
Start at: 2018-06-19 03:16:42
End at: 2018-06-19 03:17:12
Local clock offset: -2.599 ms
Remote clock offset: 47.381 ms

# Below is generated by plot.py at 2018-06-19 05:01:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.33 Mbit/s
95th percentile per-packet one-way delay: -42.113 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 34.33 Mbit/s
95th percentile per-packet one-way delay: -42.113 ms
Loss rate: 0.83%
```

Run 6: Report of Verus — Data Link

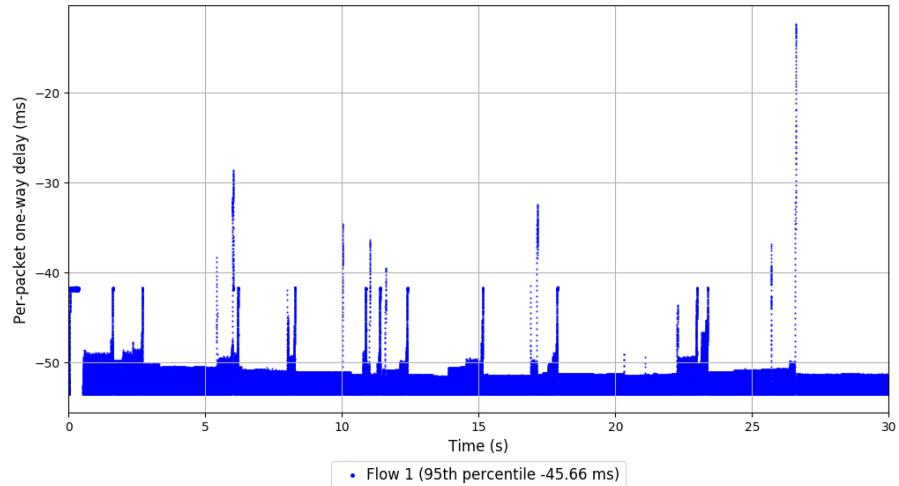
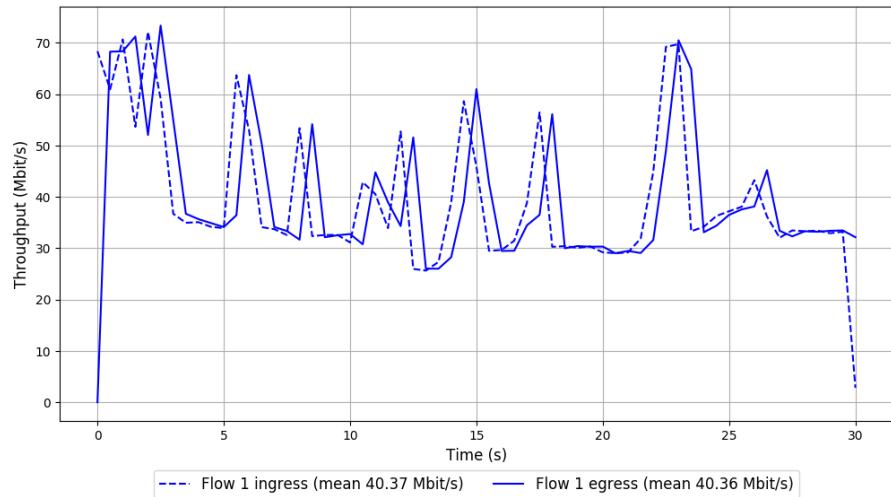


Run 7: Statistics of Verus

```
Start at: 2018-06-19 03:34:27
End at: 2018-06-19 03:34:57
Local clock offset: -2.886 ms
Remote clock offset: 47.137 ms

# Below is generated by plot.py at 2018-06-19 05:01:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: -45.660 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: -45.660 ms
Loss rate: 0.00%
```

Run 7: Report of Verus — Data Link

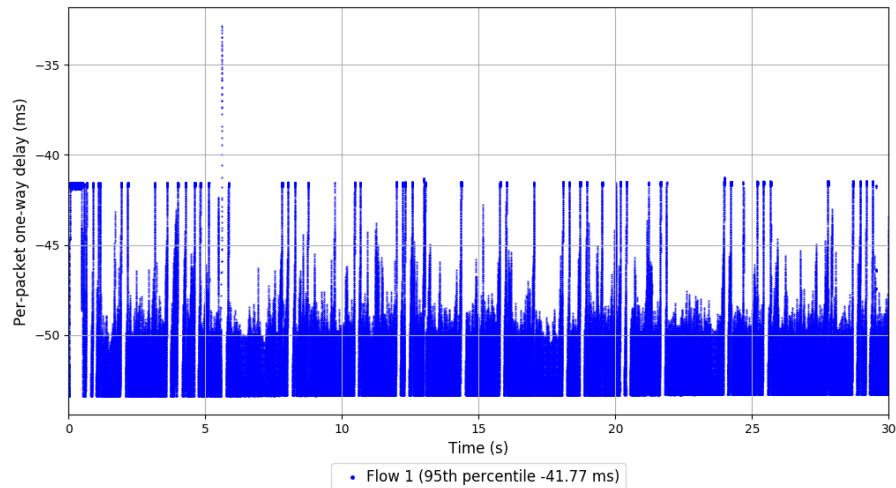
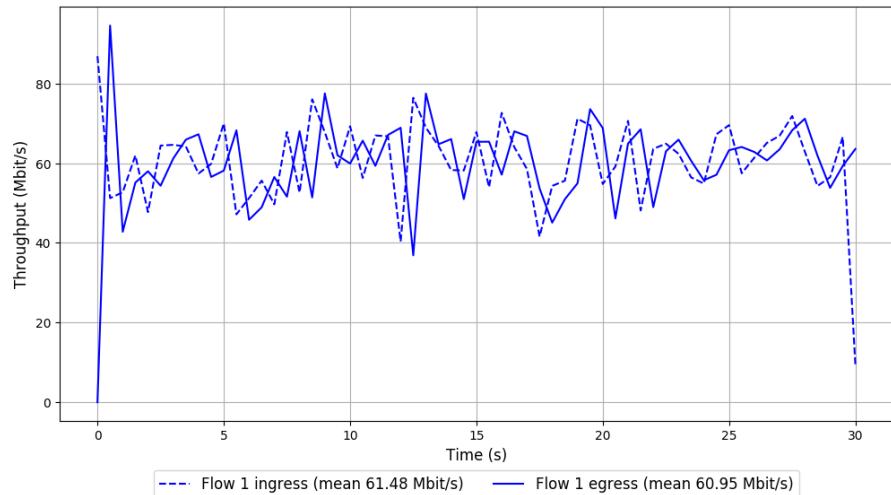


Run 8: Statistics of Verus

```
Start at: 2018-06-19 03:52:13
End at: 2018-06-19 03:52:43
Local clock offset: -2.917 ms
Remote clock offset: 52.545 ms

# Below is generated by plot.py at 2018-06-19 05:01:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.95 Mbit/s
95th percentile per-packet one-way delay: -41.772 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 60.95 Mbit/s
95th percentile per-packet one-way delay: -41.772 ms
Loss rate: 0.88%
```

Run 8: Report of Verus — Data Link

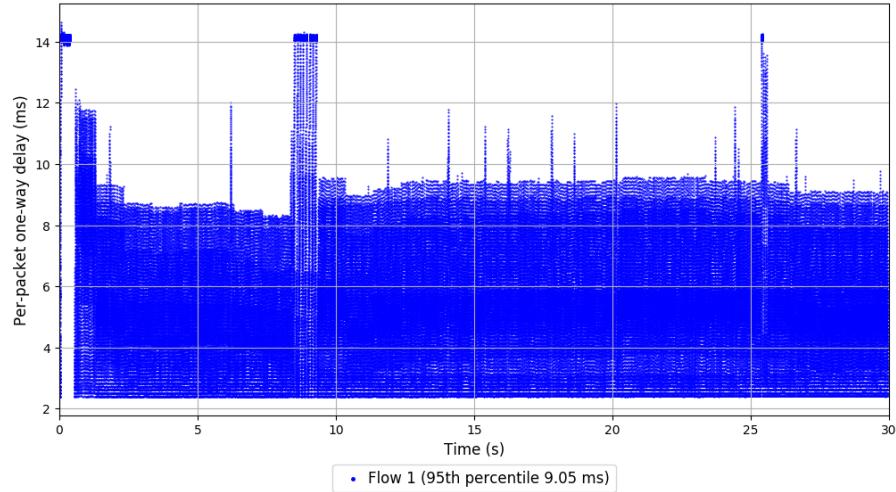
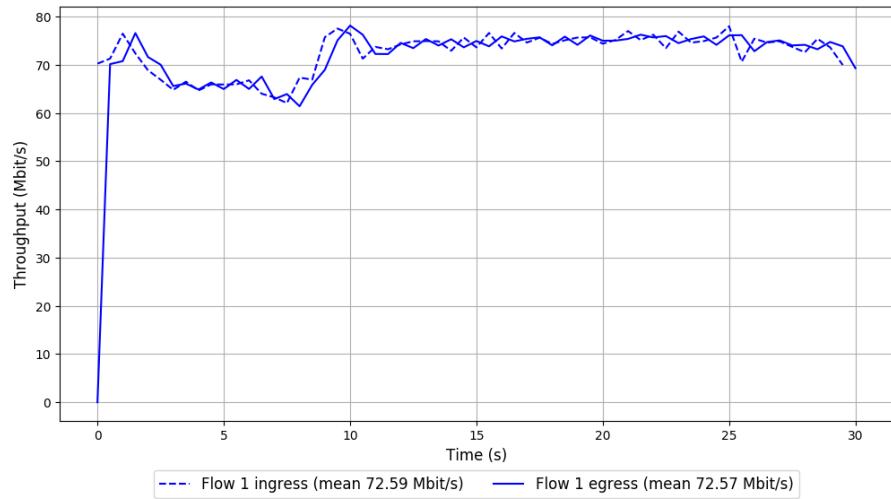


Run 9: Statistics of Verus

```
Start at: 2018-06-19 04:10:03
End at: 2018-06-19 04:10:33
Local clock offset: -2.336 ms
Remote clock offset: 0.712 ms

# Below is generated by plot.py at 2018-06-19 05:02:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.57 Mbit/s
95th percentile per-packet one-way delay: 9.051 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 72.57 Mbit/s
95th percentile per-packet one-way delay: 9.051 ms
Loss rate: 0.03%
```

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

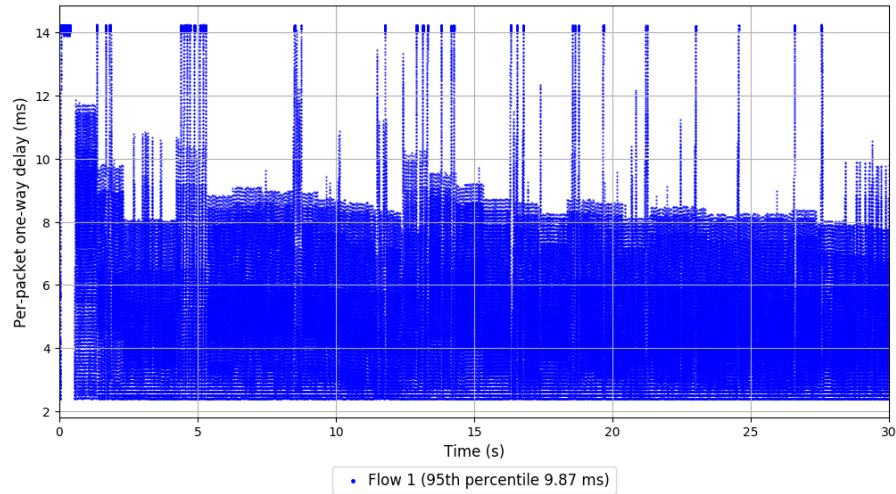
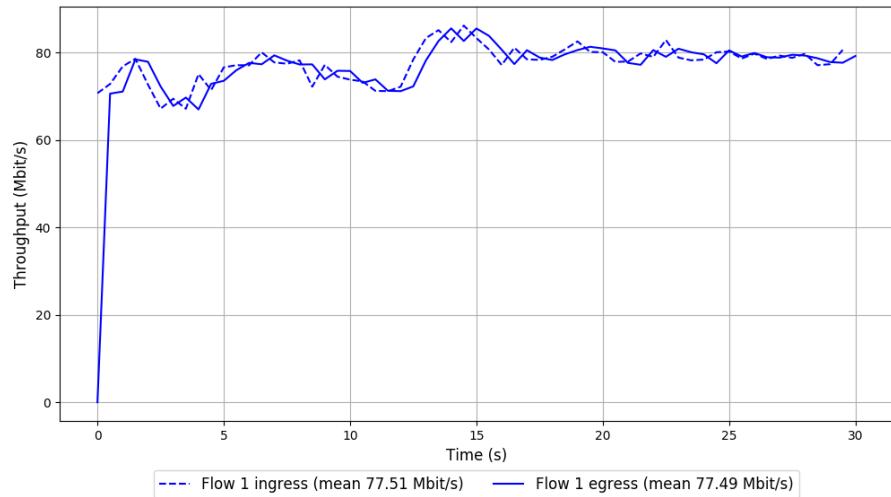


Run 10: Statistics of Verus

```
Start at: 2018-06-19 04:27:59
End at: 2018-06-19 04:28:29
Local clock offset: -1.705 ms
Remote clock offset: -0.702 ms

# Below is generated by plot.py at 2018-06-19 05:02:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.49 Mbit/s
95th percentile per-packet one-way delay: 9.871 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 77.49 Mbit/s
95th percentile per-packet one-way delay: 9.871 ms
Loss rate: 0.03%
```

## Run 10: Report of Verus — Data Link

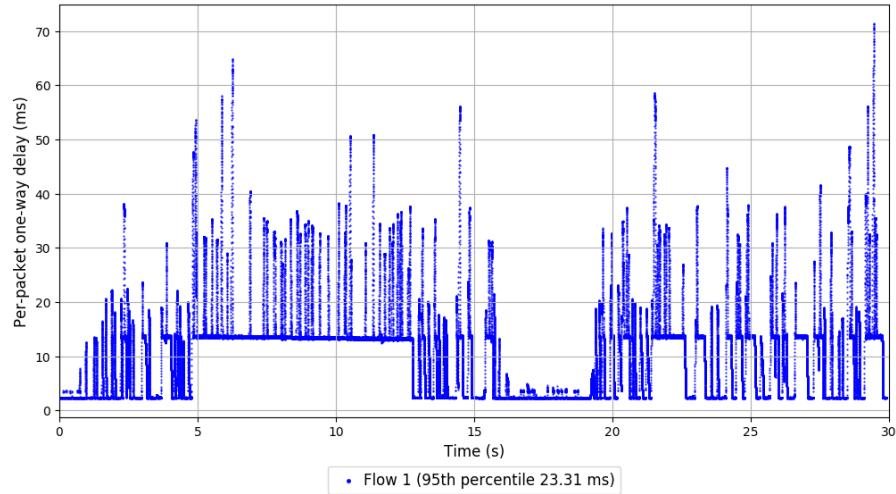
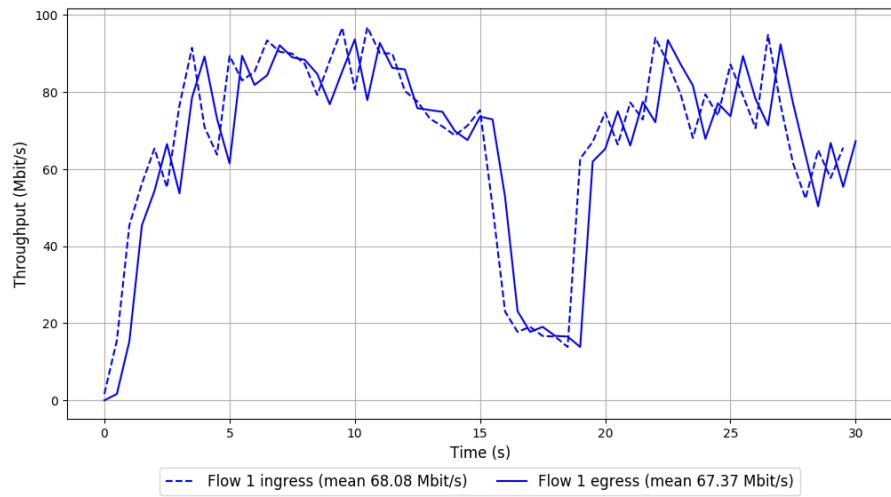


Run 1: Statistics of PCC-Vivace

```
Start at: 2018-06-19 01:42:55
End at: 2018-06-19 01:43:25
Local clock offset: -1.869 ms
Remote clock offset: -1.566 ms

# Below is generated by plot.py at 2018-06-19 05:02:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.37 Mbit/s
95th percentile per-packet one-way delay: 23.307 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 67.37 Mbit/s
95th percentile per-packet one-way delay: 23.307 ms
Loss rate: 1.05%
```

Run 1: Report of PCC-Vivace — Data Link

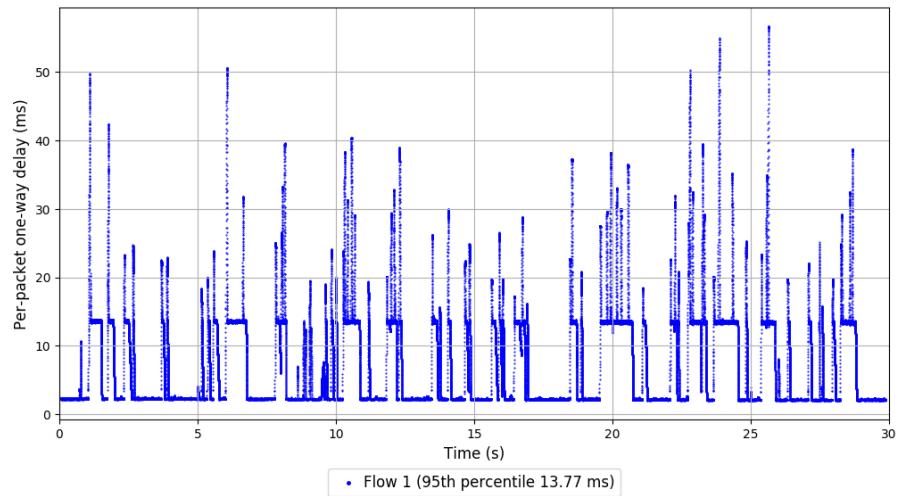
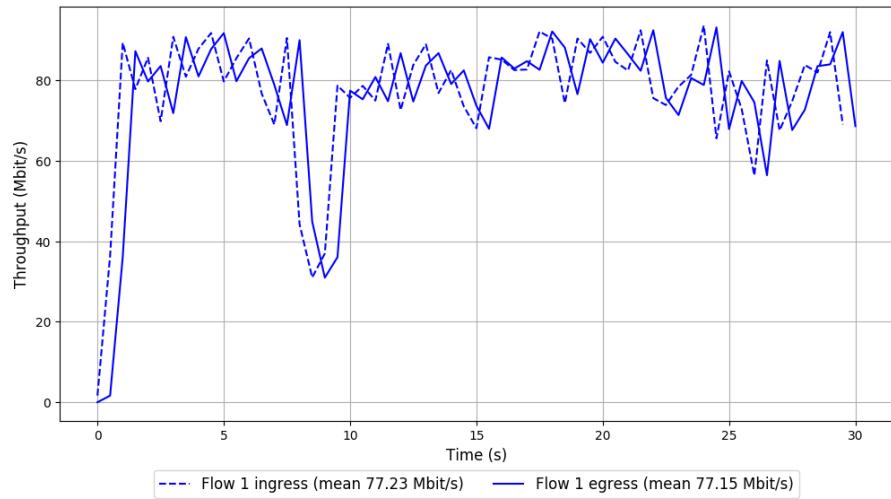


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-06-19 02:00:45
End at: 2018-06-19 02:01:15
Local clock offset: -1.847 ms
Remote clock offset: -4.493 ms

# Below is generated by plot.py at 2018-06-19 05:02:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.15 Mbit/s
95th percentile per-packet one-way delay: 13.766 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 77.15 Mbit/s
95th percentile per-packet one-way delay: 13.766 ms
Loss rate: 0.12%
```

Run 2: Report of PCC-Vivace — Data Link

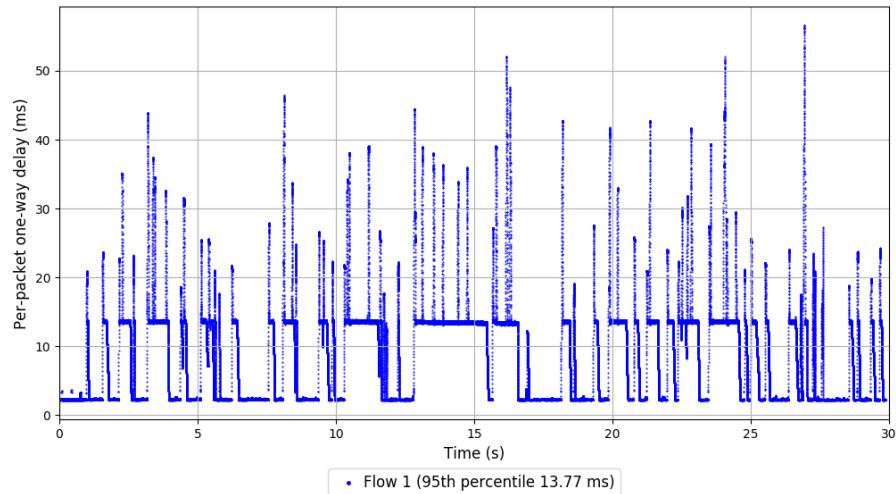
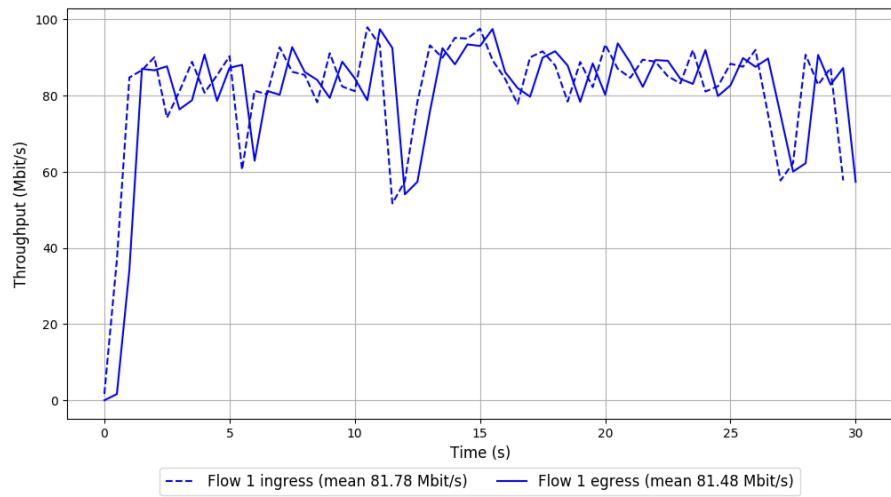


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-06-19 02:18:36
End at: 2018-06-19 02:19:06
Local clock offset: -2.575 ms
Remote clock offset: -8.605 ms

# Below is generated by plot.py at 2018-06-19 05:02:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.48 Mbit/s
95th percentile per-packet one-way delay: 13.770 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 81.48 Mbit/s
95th percentile per-packet one-way delay: 13.770 ms
Loss rate: 0.39%
```

Run 3: Report of PCC-Vivace — Data Link

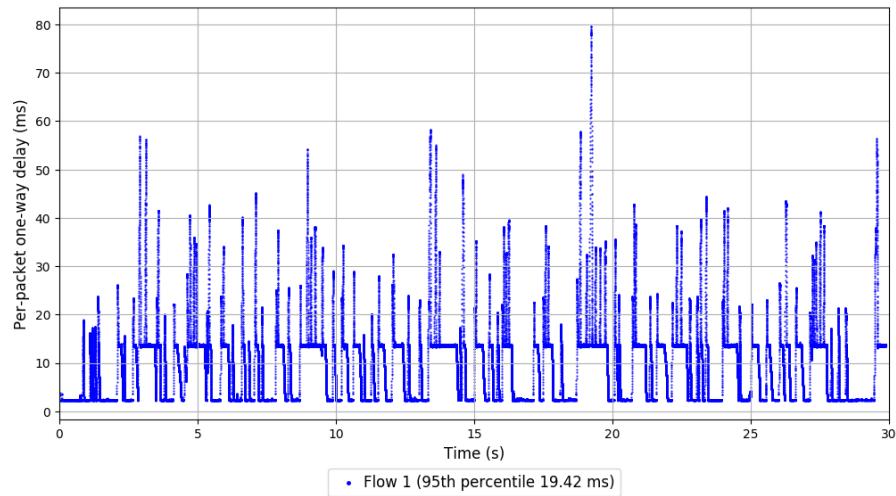
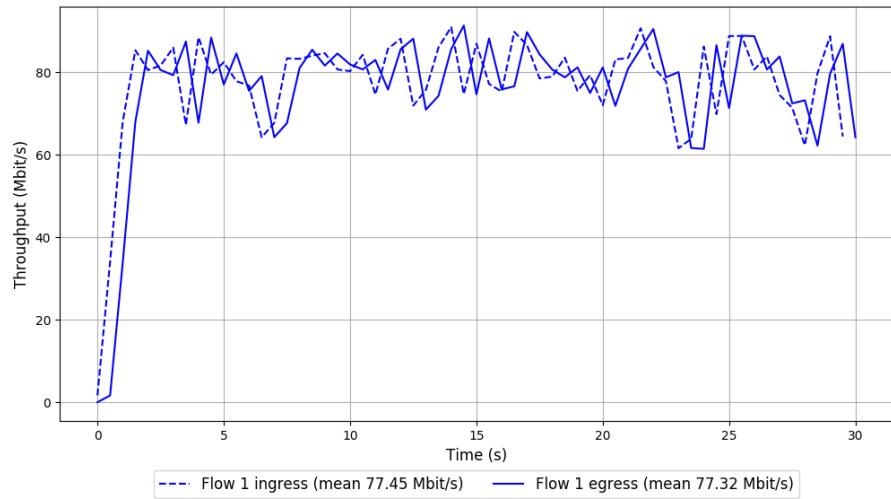


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-06-19 02:36:28
End at: 2018-06-19 02:36:58
Local clock offset: -2.573 ms
Remote clock offset: -8.294 ms

# Below is generated by plot.py at 2018-06-19 05:02:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.32 Mbit/s
95th percentile per-packet one-way delay: 19.419 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 77.32 Mbit/s
95th percentile per-packet one-way delay: 19.419 ms
Loss rate: 0.19%
```

Run 4: Report of PCC-Vivace — Data Link

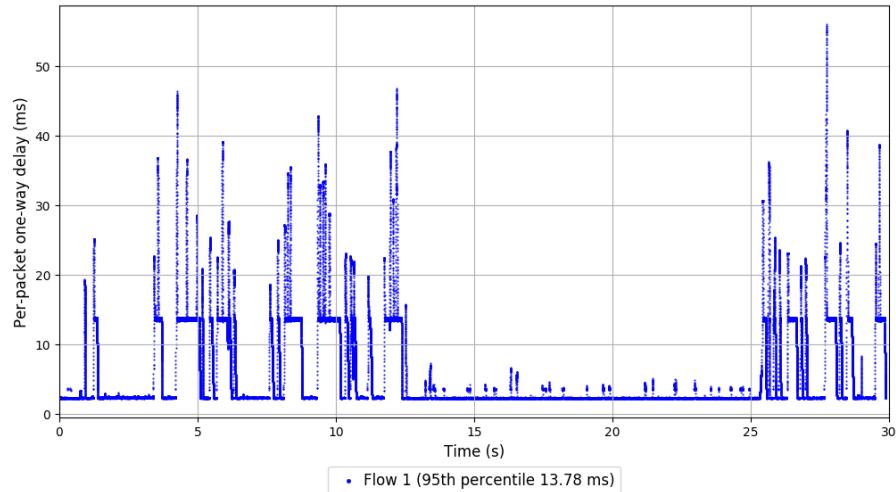
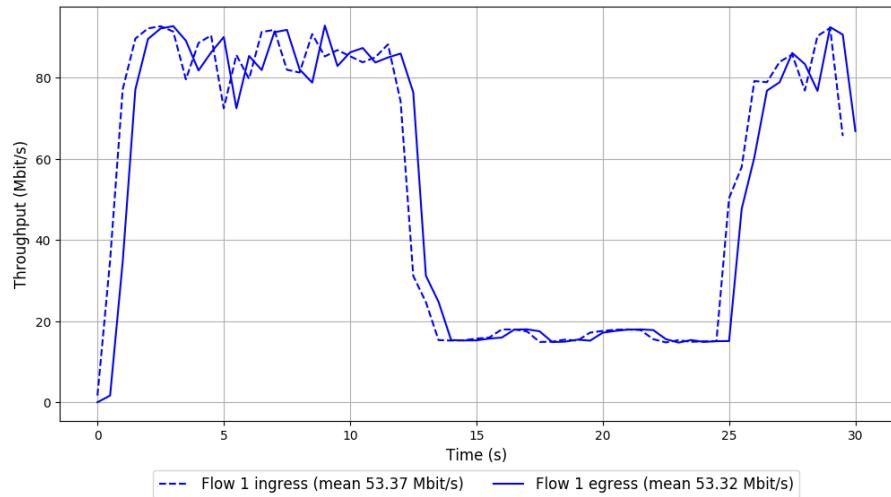


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-06-19 02:54:19
End at: 2018-06-19 02:54:49
Local clock offset: -1.883 ms
Remote clock offset: -7.825 ms

# Below is generated by plot.py at 2018-06-19 05:02:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.32 Mbit/s
95th percentile per-packet one-way delay: 13.780 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 53.32 Mbit/s
95th percentile per-packet one-way delay: 13.780 ms
Loss rate: 0.11%
```

Run 5: Report of PCC-Vivace — Data Link

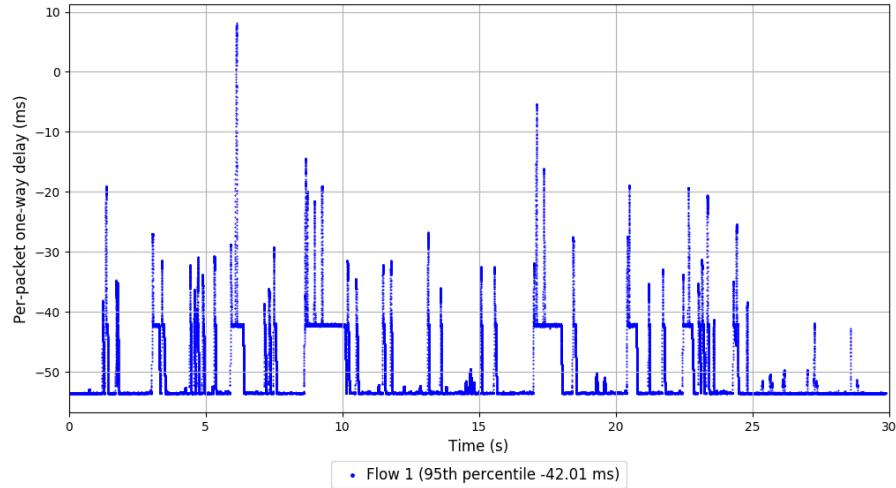
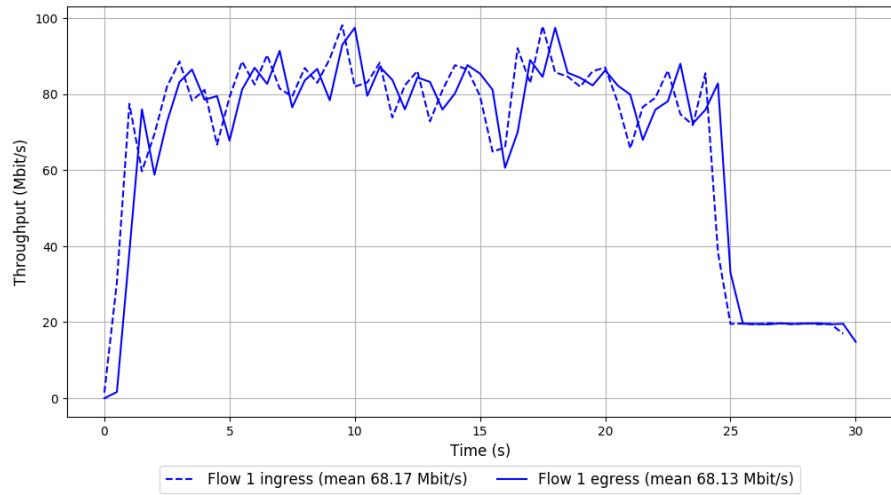


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-06-19 03:12:11
End at: 2018-06-19 03:12:41
Local clock offset: -2.461 ms
Remote clock offset: 47.01 ms

# Below is generated by plot.py at 2018-06-19 05:03:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.13 Mbit/s
95th percentile per-packet one-way delay: -42.008 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 68.13 Mbit/s
95th percentile per-packet one-way delay: -42.008 ms
Loss rate: 0.07%
```

Run 6: Report of PCC-Vivace — Data Link

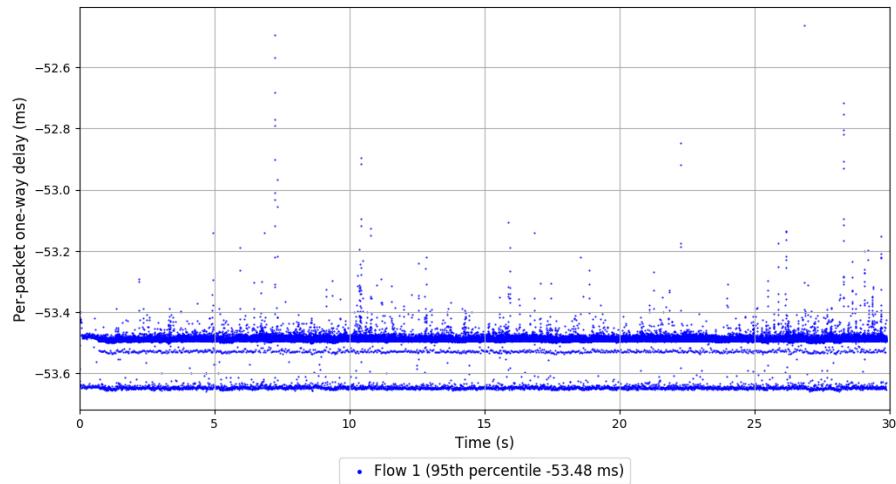
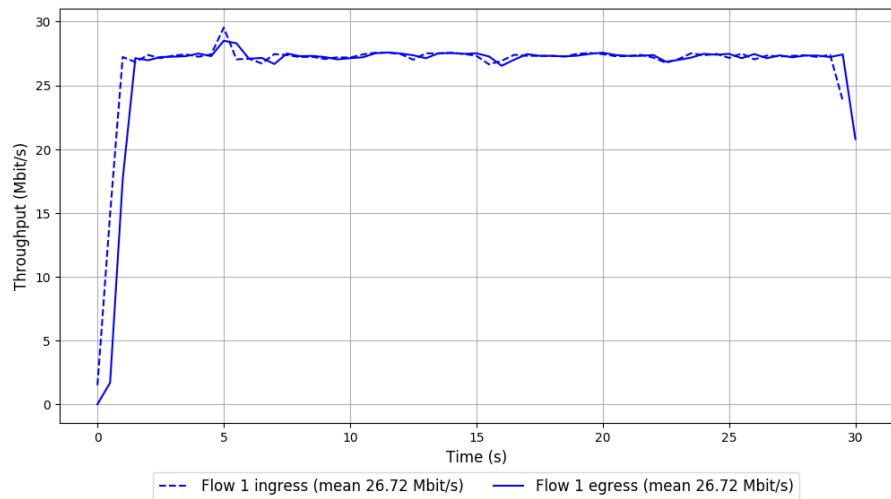


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-06-19 03:29:58
End at: 2018-06-19 03:30:28
Local clock offset: -2.841 ms
Remote clock offset: 47.265 ms

# Below is generated by plot.py at 2018-06-19 05:03:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.72 Mbit/s
95th percentile per-packet one-way delay: -53.479 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.72 Mbit/s
95th percentile per-packet one-way delay: -53.479 ms
Loss rate: 0.00%
```

Run 7: Report of PCC-Vivace — Data Link

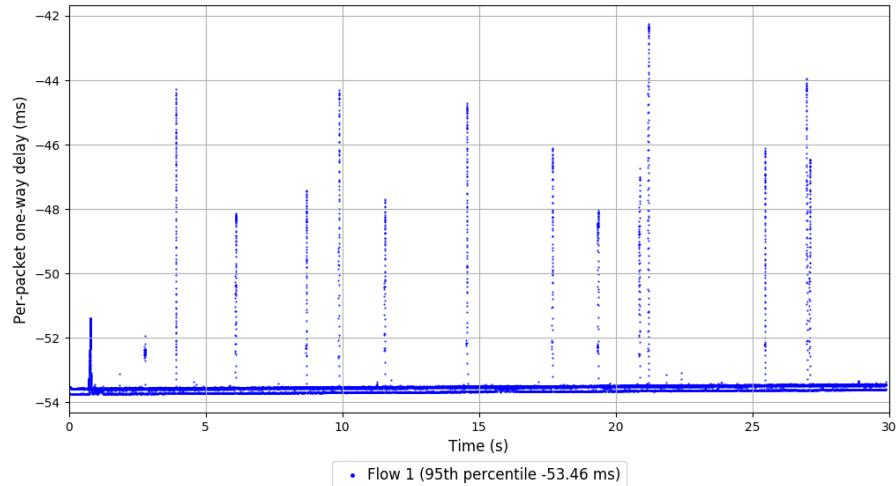
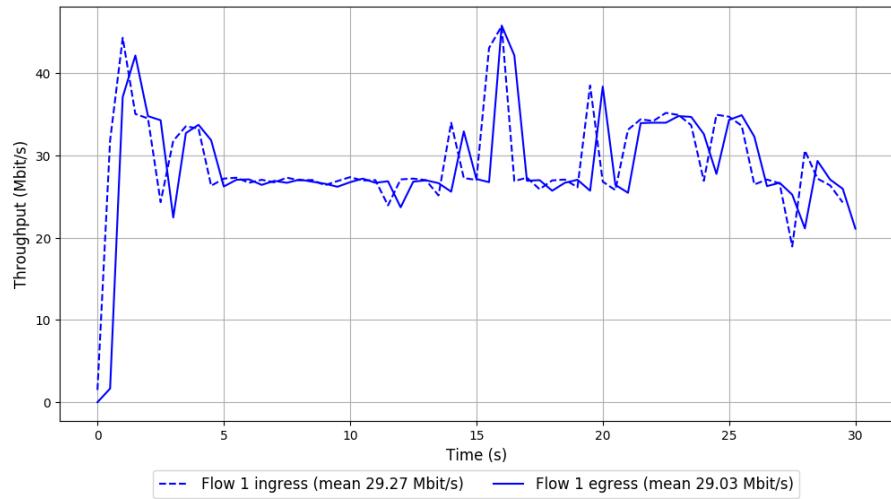


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-06-19 03:47:44
End at: 2018-06-19 03:48:14
Local clock offset: -2.973 ms
Remote clock offset: 51.621 ms

# Below is generated by plot.py at 2018-06-19 05:03:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.03 Mbit/s
95th percentile per-packet one-way delay: -53.460 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 29.03 Mbit/s
95th percentile per-packet one-way delay: -53.460 ms
Loss rate: 0.80%
```

Run 8: Report of PCC-Vivace — Data Link

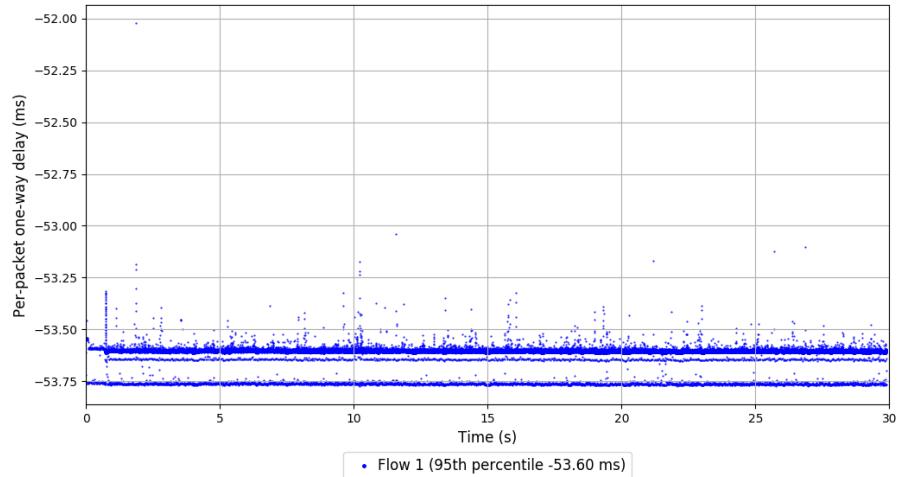
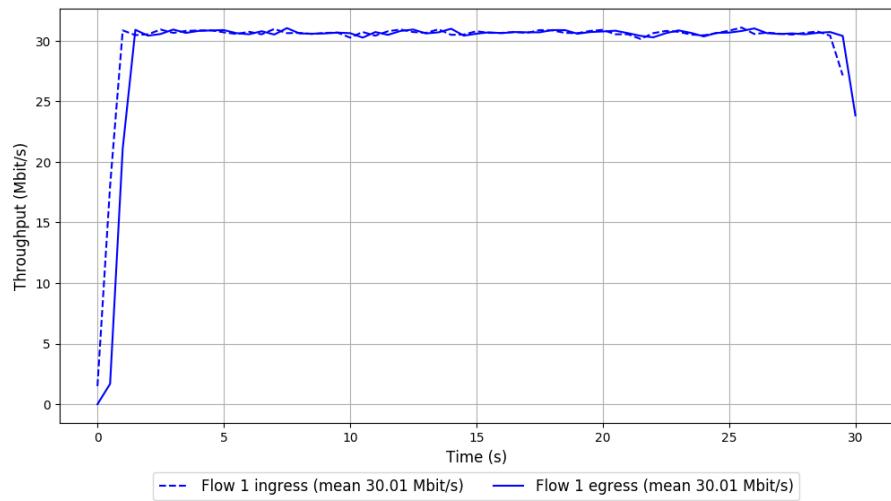


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-06-19 04:05:35
End at: 2018-06-19 04:06:05
Local clock offset: -2.793 ms
Remote clock offset: 54.608 ms

# Below is generated by plot.py at 2018-06-19 05:03:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.01 Mbit/s
95th percentile per-packet one-way delay: -53.597 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 30.01 Mbit/s
95th percentile per-packet one-way delay: -53.597 ms
Loss rate: 0.01%
```

Run 9: Report of PCC-Vivace — Data Link

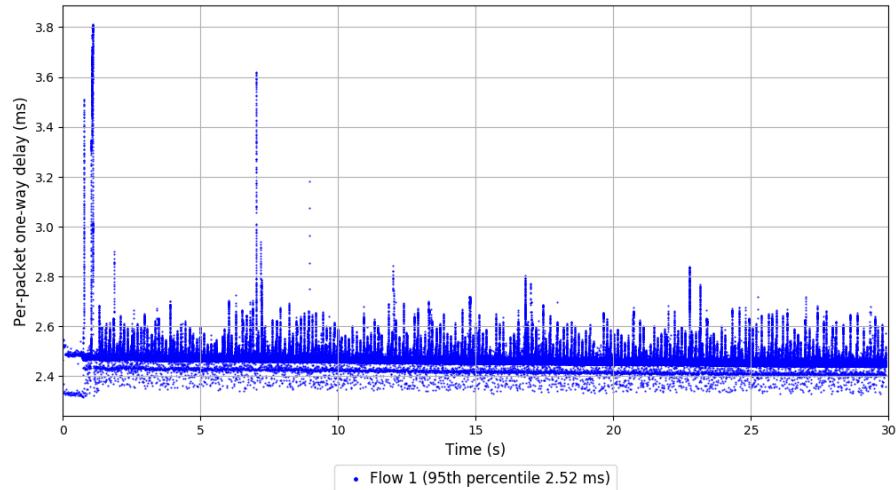
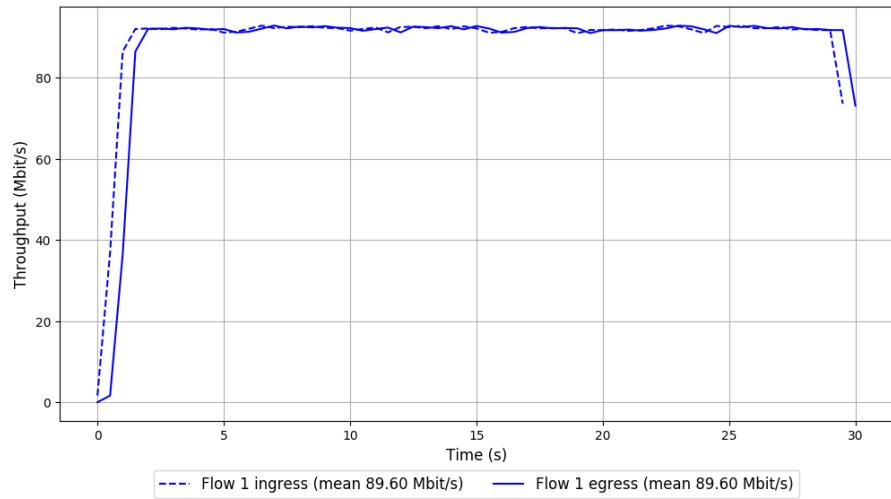


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-06-19 04:23:27
End at: 2018-06-19 04:23:57
Local clock offset: -1.734 ms
Remote clock offset: -0.647 ms

# Below is generated by plot.py at 2018-06-19 05:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.60 Mbit/s
95th percentile per-packet one-way delay: 2.520 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 89.60 Mbit/s
95th percentile per-packet one-way delay: 2.520 ms
Loss rate: 0.02%
```

Run 10: Report of PCC-Vivace — Data Link

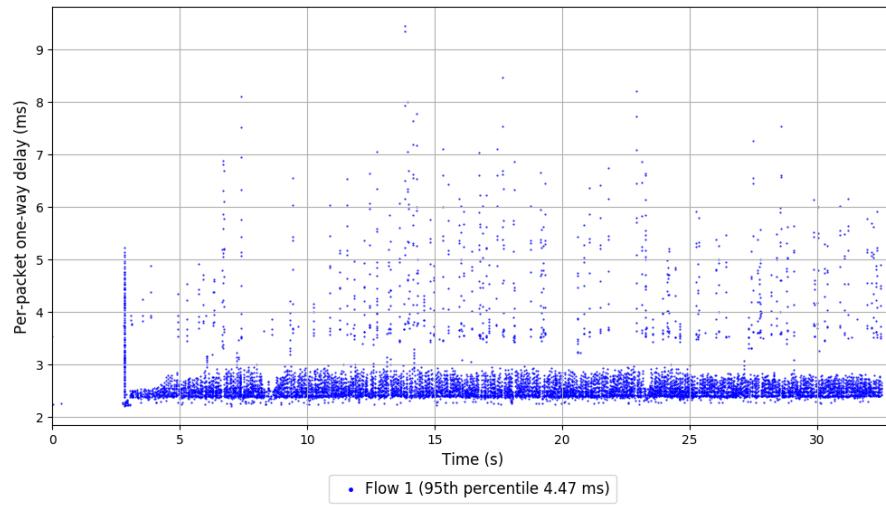
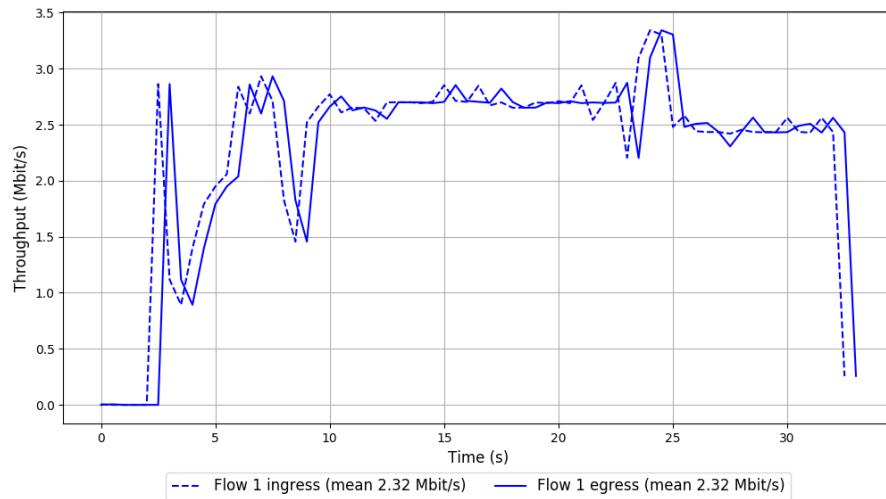


Run 1: Statistics of WebRTC media

```
Start at: 2018-06-19 01:50:41
End at: 2018-06-19 01:51:11
Local clock offset: -1.867 ms
Remote clock offset: -1.461 ms

# Below is generated by plot.py at 2018-06-19 05:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 4.470 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 4.470 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

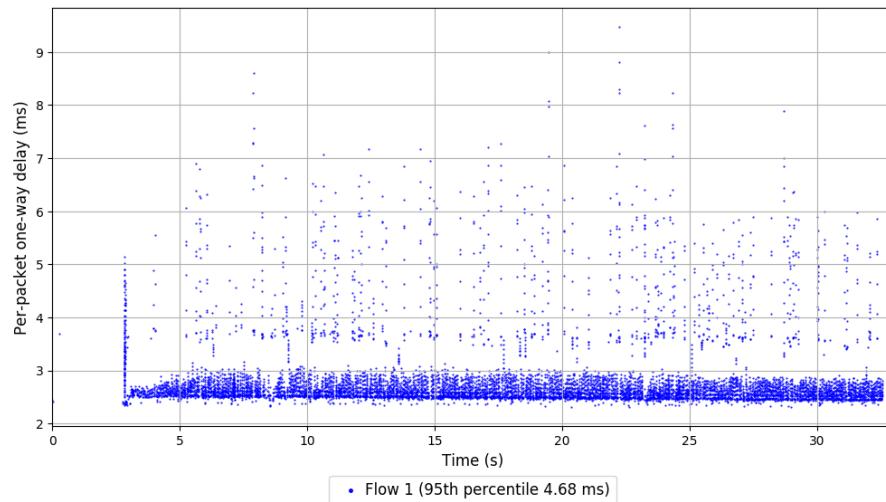
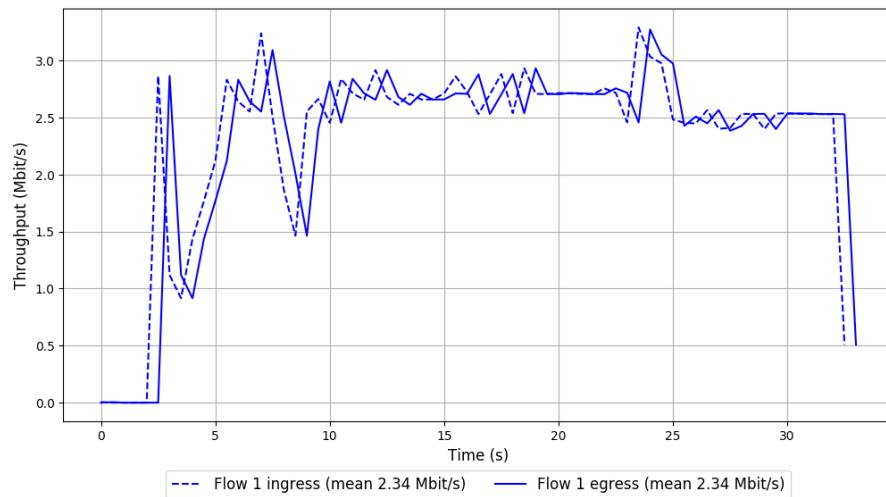


Run 2: Statistics of WebRTC media

```
Start at: 2018-06-19 02:08:32
End at: 2018-06-19 02:09:02
Local clock offset: -2.194 ms
Remote clock offset: -7.131 ms

# Below is generated by plot.py at 2018-06-19 05:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 4.683 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 4.683 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

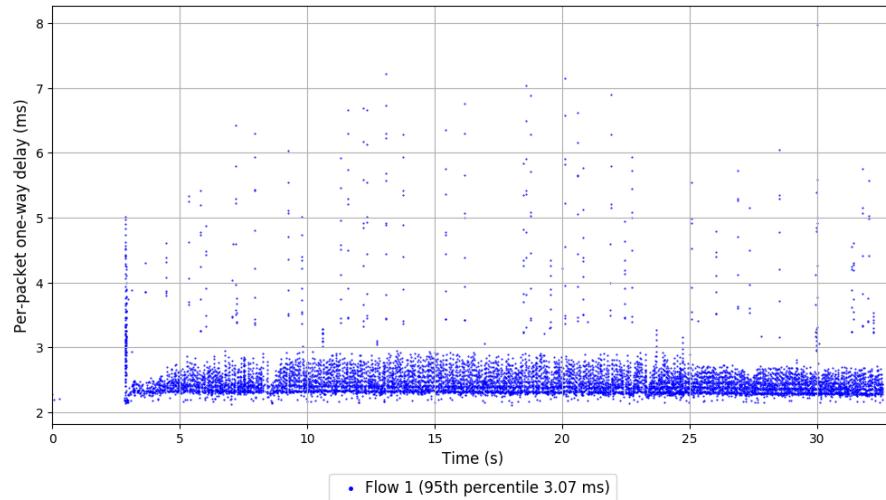
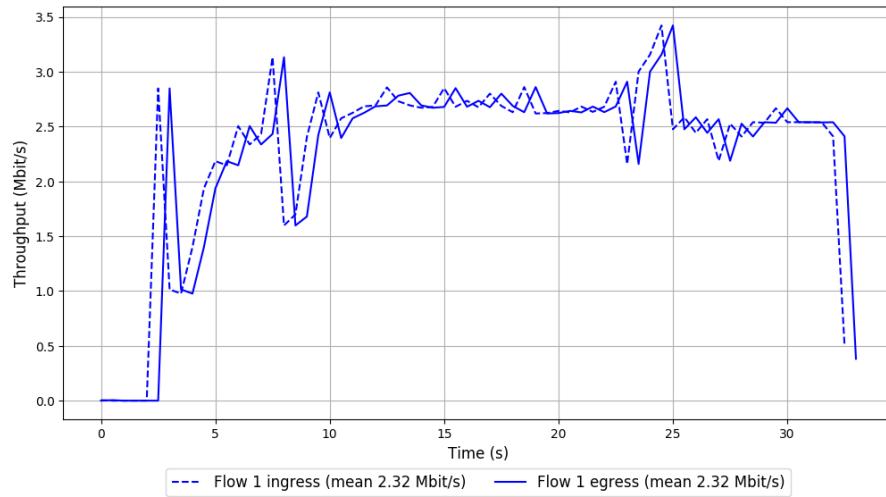


```
Run 3: Statistics of WebRTC media

Start at: 2018-06-19 02:26:23
End at: 2018-06-19 02:26:53
Local clock offset: -2.75 ms
Remote clock offset: -9.463 ms

# Below is generated by plot.py at 2018-06-19 05:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 3.071 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 3.071 ms
Loss rate: 0.08%
```

Run 3: Report of WebRTC media — Data Link

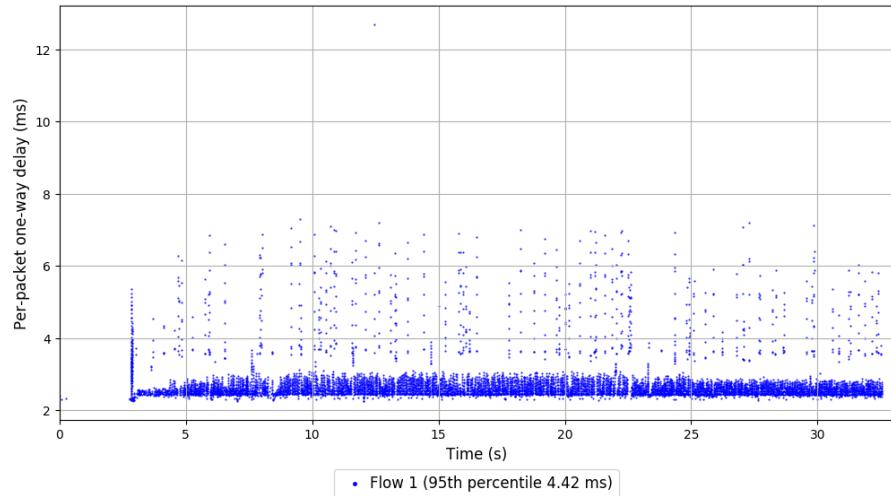
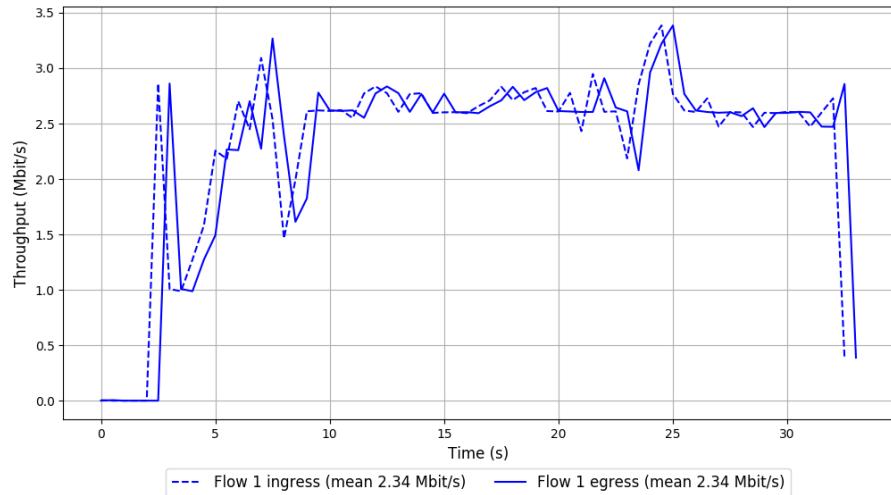


Run 4: Statistics of WebRTC media

```
Start at: 2018-06-19 02:44:15
End at: 2018-06-19 02:44:45
Local clock offset: -2.113 ms
Remote clock offset: -7.859 ms

# Below is generated by plot.py at 2018-06-19 05:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 4.425 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 4.425 ms
Loss rate: 0.00%
```

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

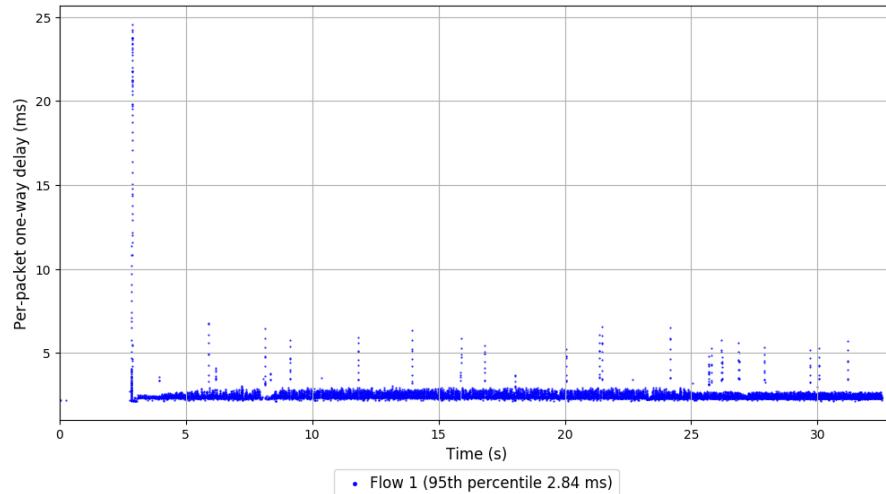
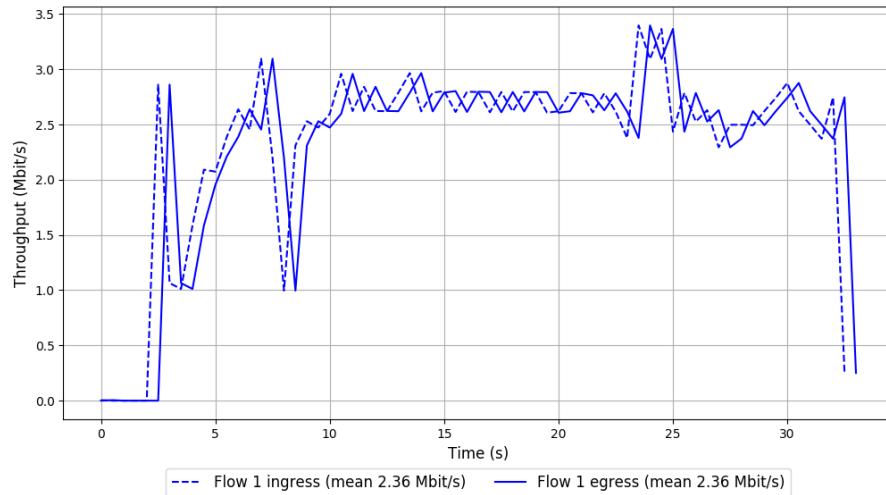


```
Run 5: Statistics of WebRTC media

Start at: 2018-06-19 03:02:05
End at: 2018-06-19 03:02:35
Local clock offset: -1.8 ms
Remote clock offset: -8.067 ms

# Below is generated by plot.py at 2018-06-19 05:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 2.838 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 2.838 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

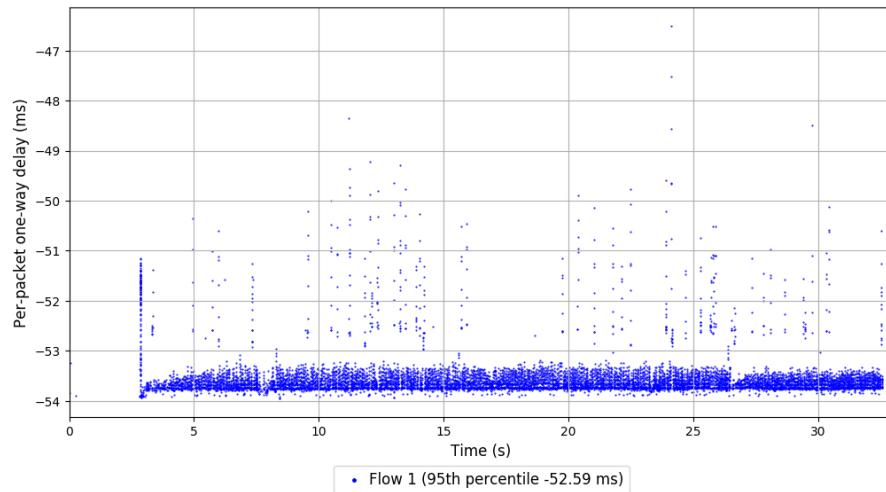
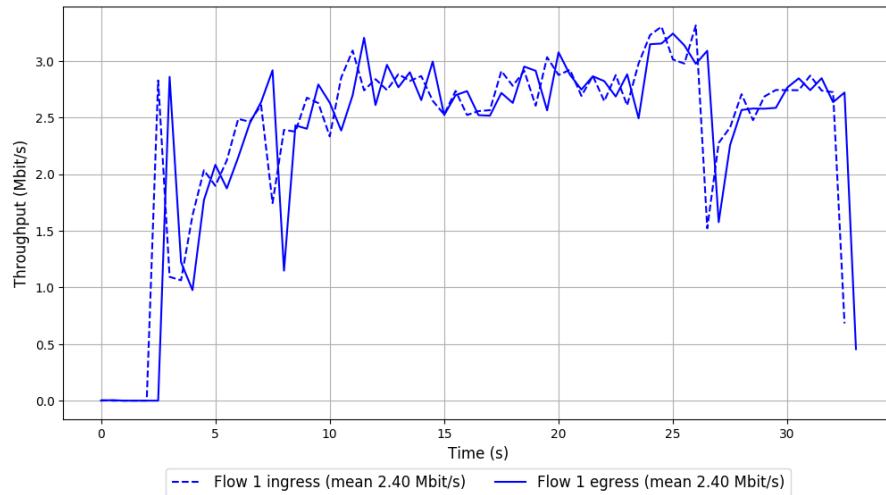


```
Run 6: Statistics of WebRTC media

Start at: 2018-06-19 03:19:57
End at: 2018-06-19 03:20:27
Local clock offset: -2.675 ms
Remote clock offset: 47.448 ms

# Below is generated by plot.py at 2018-06-19 05:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: -52.587 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: -52.587 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

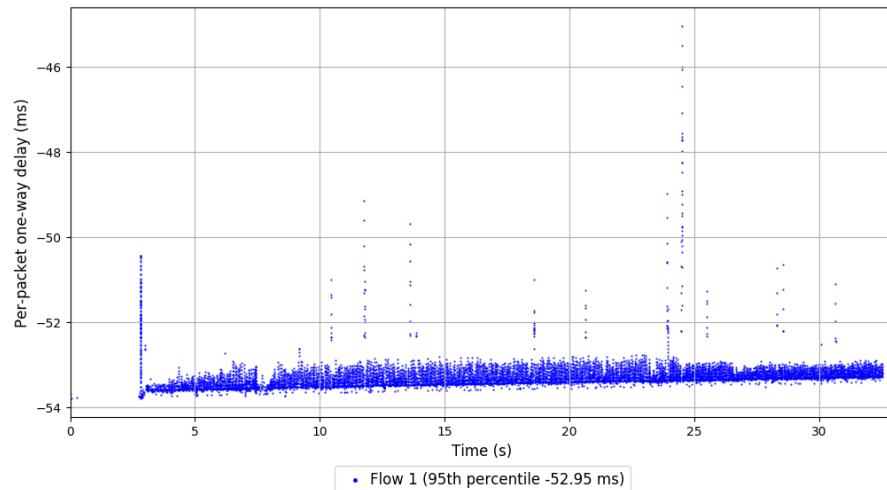
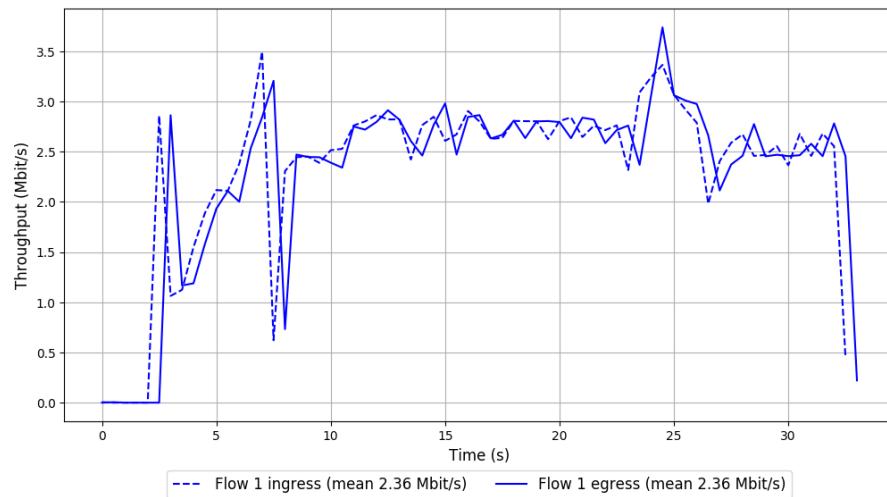


Run 7: Statistics of WebRTC media

```
Start at: 2018-06-19 03:37:47
End at: 2018-06-19 03:38:17
Local clock offset: -2.878 ms
Remote clock offset: 47.389 ms

# Below is generated by plot.py at 2018-06-19 05:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: -52.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: -52.954 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

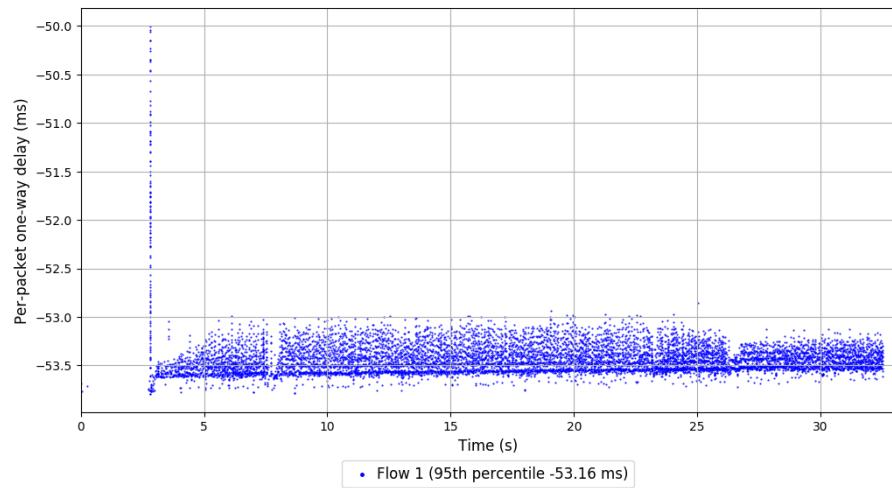
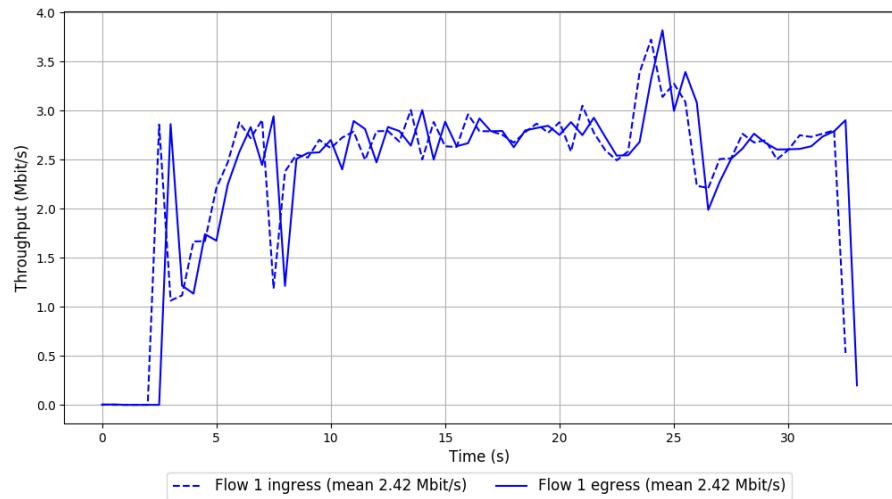


Run 8: Statistics of WebRTC media

```
Start at: 2018-06-19 03:55:30
End at: 2018-06-19 03:56:00
Local clock offset: -2.939 ms
Remote clock offset: 53.23 ms

# Below is generated by plot.py at 2018-06-19 05:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: -53.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: -53.162 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

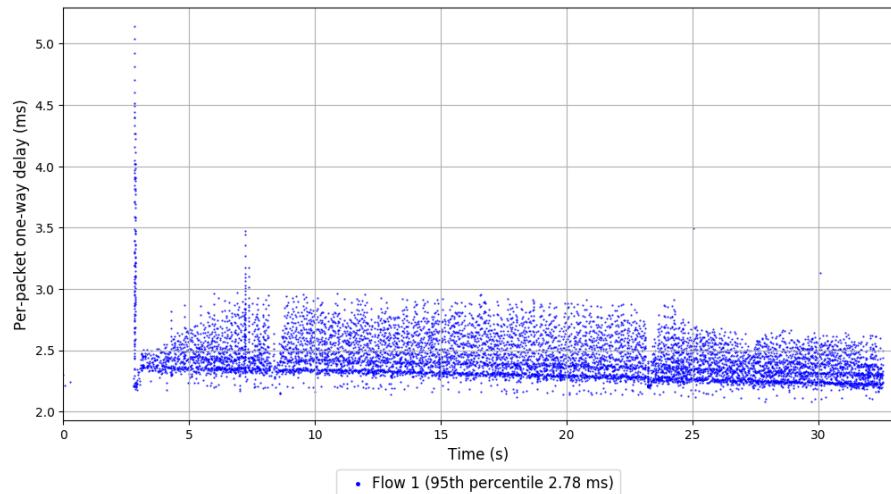
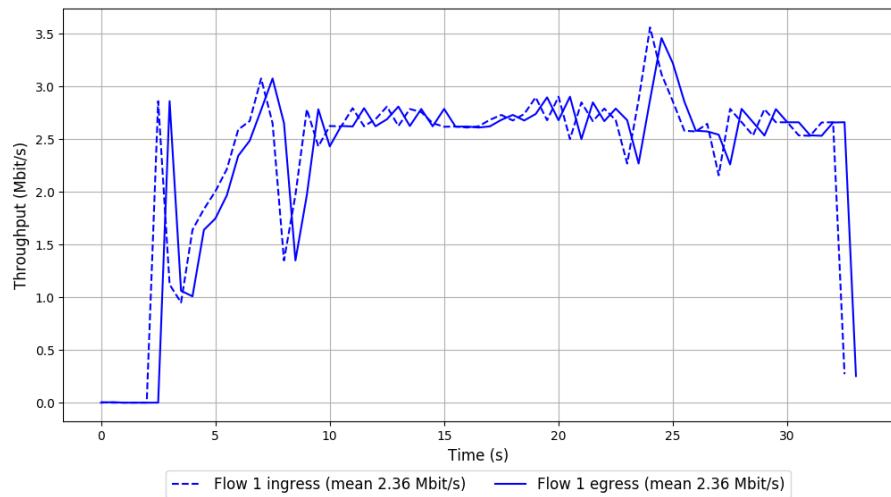


Run 9: Statistics of WebRTC media

```
Start at: 2018-06-19 04:13:20
End at: 2018-06-19 04:13:50
Local clock offset: -2.183 ms
Remote clock offset: 0.531 ms

# Below is generated by plot.py at 2018-06-19 05:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 2.777 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 2.777 ms
Loss rate: 0.01%
```

Run 9: Report of WebRTC media — Data Link



```
Run 10: Statistics of WebRTC media
```

```
Start at: 2018-06-19 04:31:16
End at: 2018-06-19 04:31:46
Local clock offset: -1.596 ms
Remote clock offset: -0.576 ms

# Below is generated by plot.py at 2018-06-19 05:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 2.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 2.823 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

