

## Pantheon Report

Generated at 2019-06-27 15:42:47 (UTC).  
Data path: Mexico on `em1` (*remote*) → AWS California 2 on `ens5` (*local*).  
Repeated the test of 22 congestion control schemes 5 times.  
Each test lasted for 30 seconds running 1 flow.  
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

System info:

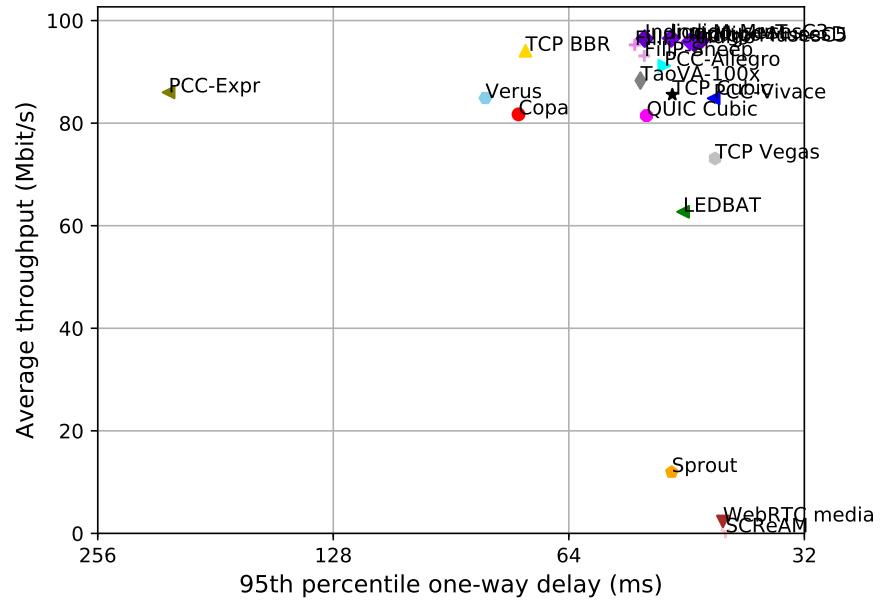
```
Linux 4.15.0-1039-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

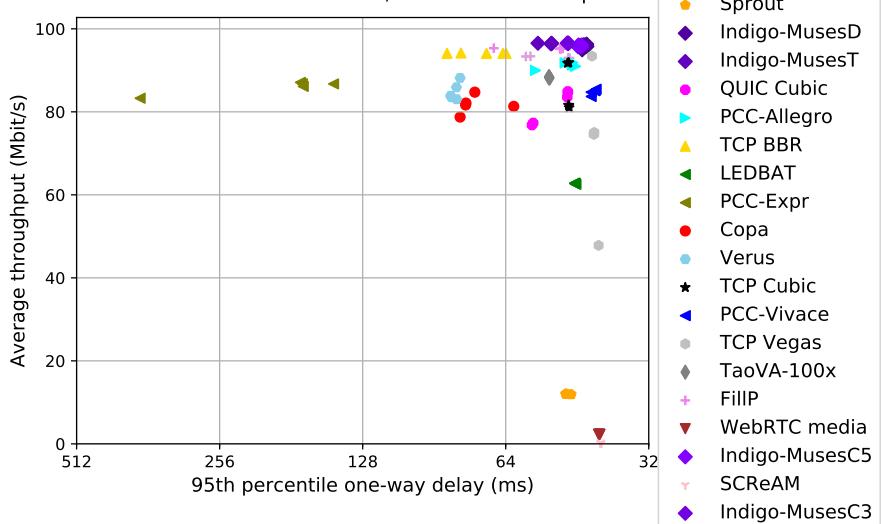
```
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d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

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

test from Mexico to AWS California 2, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from Mexico to AWS California 2, 5 runs of 30s each per scheme



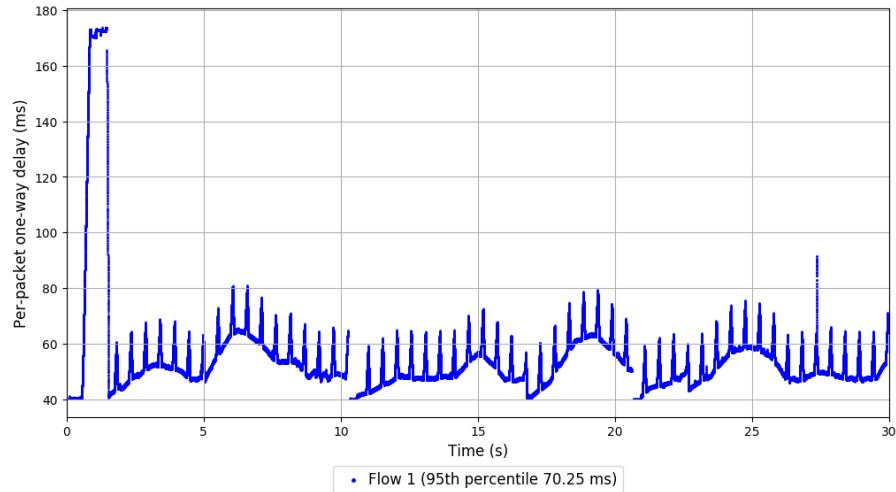
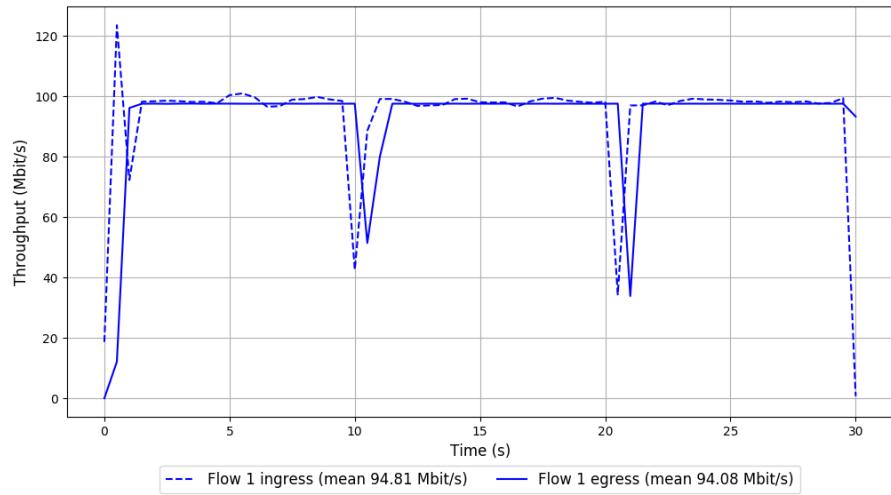
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	94.10	72.71	0.83
Copa	5	81.71	74.21	0.25
TCP Cubic	5	85.55	47.20	0.26
FillP	5	95.25	52.70	0.27
FillP-Sheep	5	93.10	51.26	0.25
Indigo	5	95.59	44.21	0.23
Indigo-MusesC3	5	96.52	47.34	0.24
Indigo-MusesC5	5	95.91	44.75	0.24
Indigo-MusesD	5	96.09	43.44	0.24
Indigo-MusesT	5	96.47	51.19	0.27
LEDBAT	5	62.71	45.73	0.37
Muses_DecisionTree	0	N/A	N/A	N/A
PCC-Allegro	5	91.18	48.33	0.25
PCC-Expr	5	86.00	207.83	0.41
QUIC Cubic	5	81.47	50.92	0.24
SCReAM	5	0.21	40.36	0.26
Sprout	5	11.96	47.28	0.19
TaoVA-100x	5	88.30	51.84	0.23
TCP Vegas	5	73.10	41.62	0.27
Verus	5	84.90	81.82	0.49
PCC-Vivace	5	84.83	41.79	0.24
WebRTC media	5	2.32	40.67	0.23

Run 1: Statistics of TCP BBR

```
Start at: 2019-06-27 13:25:54
End at: 2019-06-27 13:26:24
Local clock offset: -0.941 ms
Remote clock offset: -2.812 ms

# Below is generated by plot.py at 2019-06-27 15:28:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 70.251 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 70.251 ms
Loss rate: 0.99%
```

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

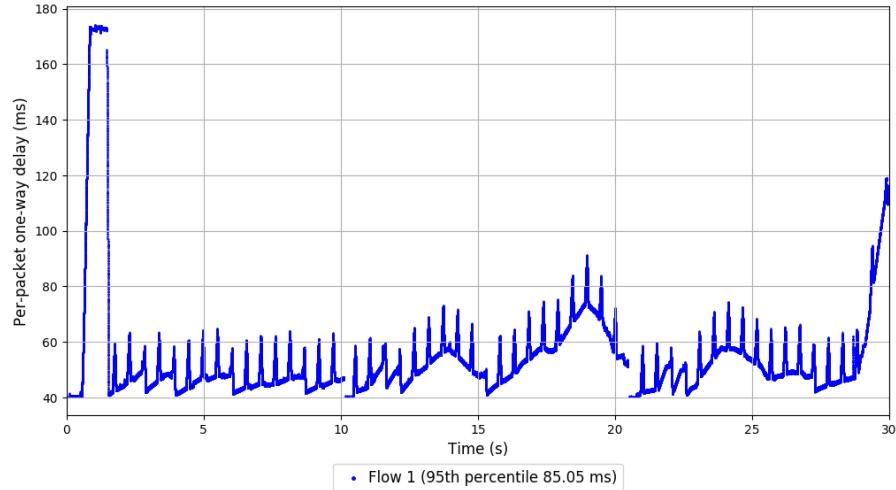
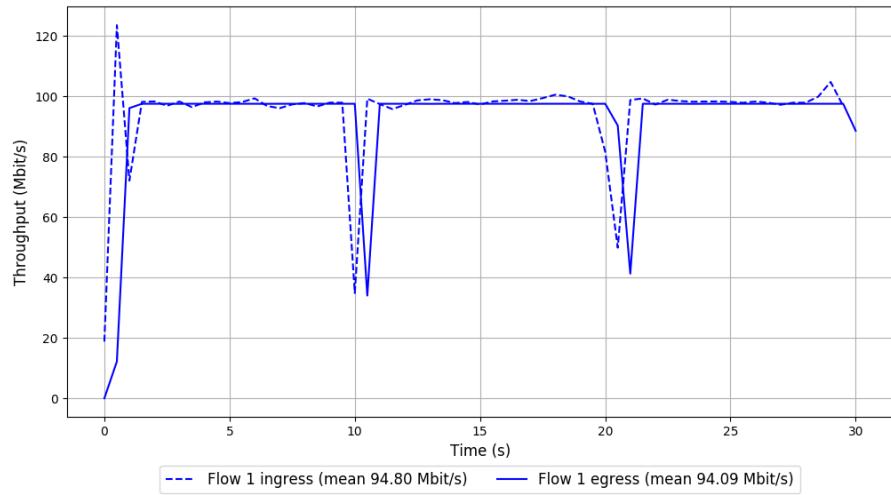


Run 2: Statistics of TCP BBR

```
Start at: 2019-06-27 13:53:45
End at: 2019-06-27 13:54:15
Local clock offset: 0.67 ms
Remote clock offset: -1.803 ms

# Below is generated by plot.py at 2019-06-27 15:28:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 85.048 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 85.048 ms
Loss rate: 0.96%
```

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

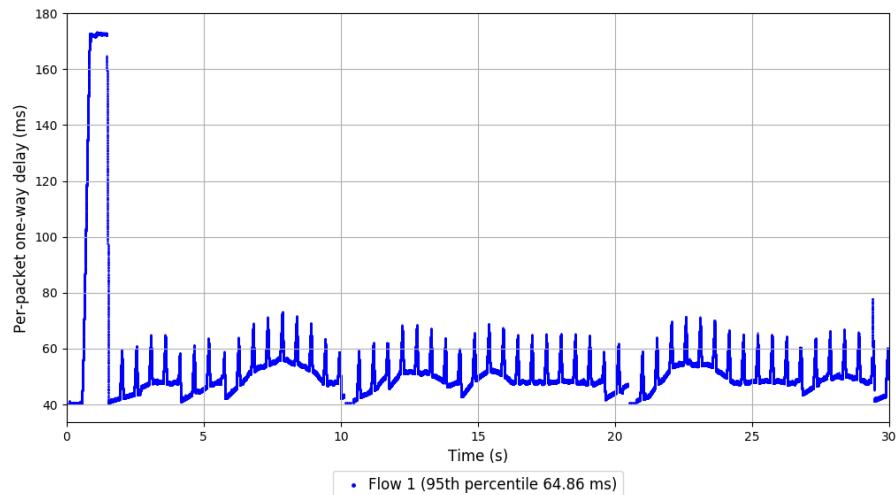
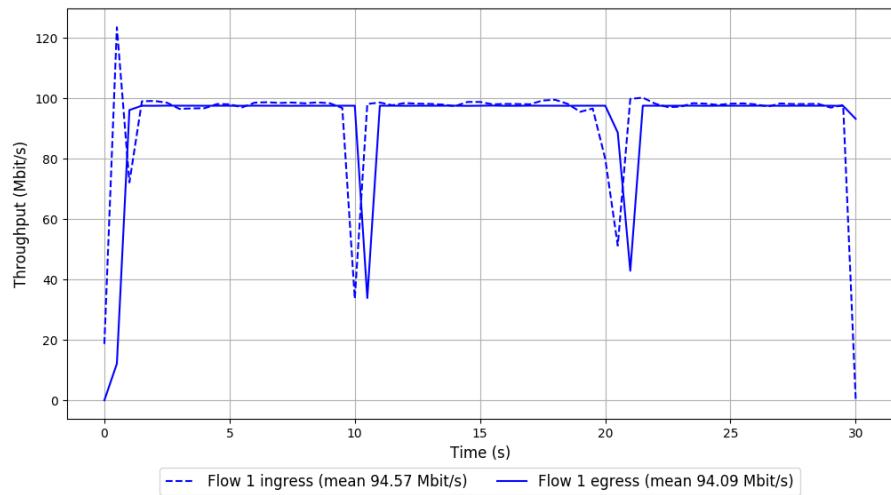


Run 3: Statistics of TCP BBR

```
Start at: 2019-06-27 14:20:51
End at: 2019-06-27 14:21:21
Local clock offset: -0.314 ms
Remote clock offset: -2.14 ms

# Below is generated by plot.py at 2019-06-27 15:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 64.861 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 64.861 ms
Loss rate: 0.73%
```

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

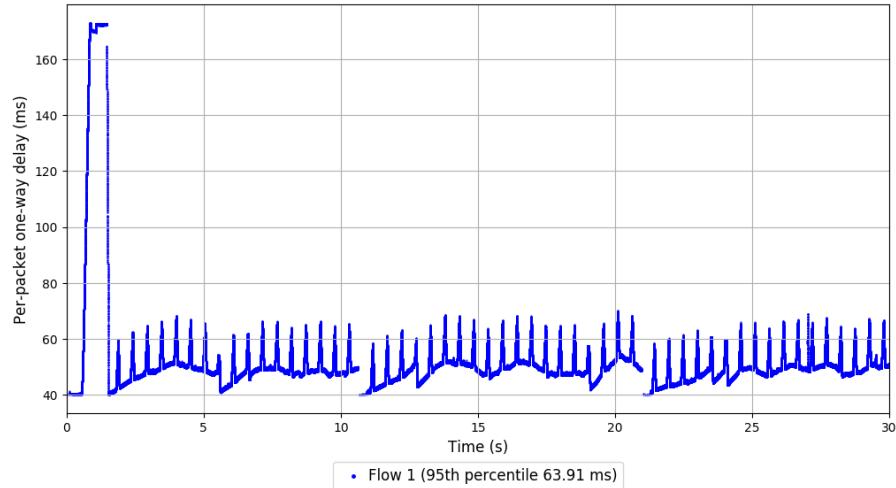
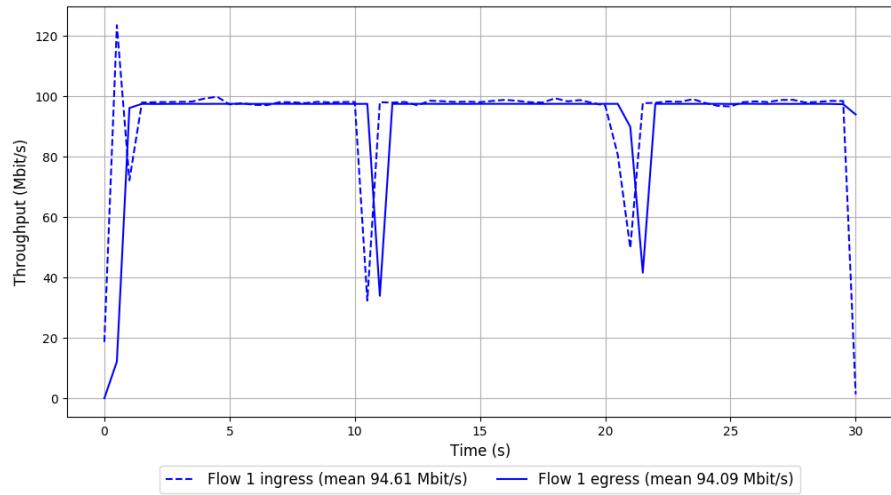


Run 4: Statistics of TCP BBR

```
Start at: 2019-06-27 14:48:36
End at: 2019-06-27 14:49:06
Local clock offset: -3.919 ms
Remote clock offset: -2.202 ms

# Below is generated by plot.py at 2019-06-27 15:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 63.913 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 63.913 ms
Loss rate: 0.77%
```

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

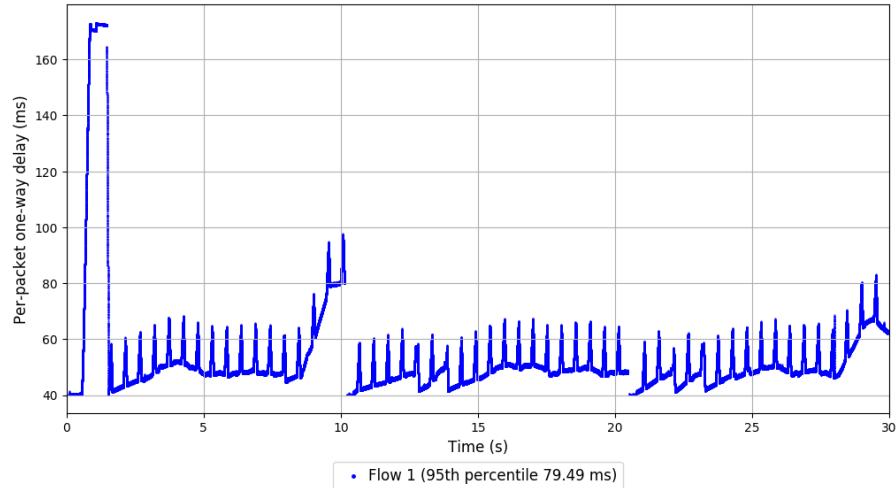
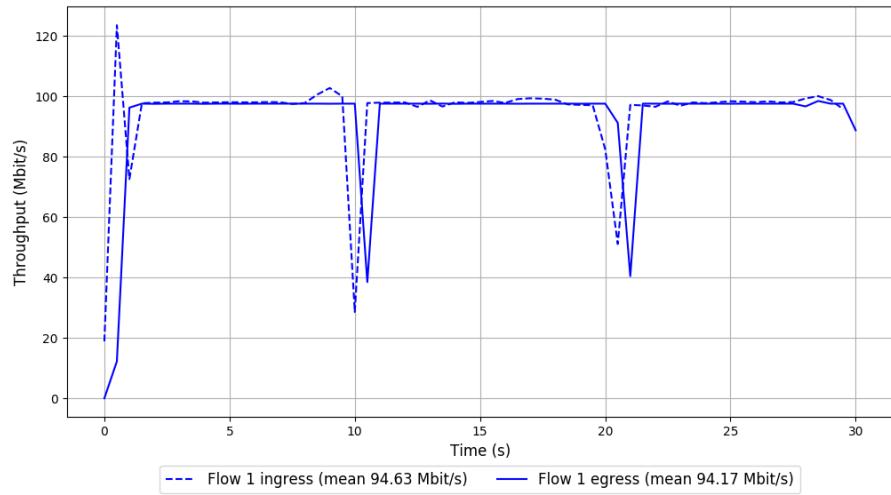


Run 5: Statistics of TCP BBR

```
Start at: 2019-06-27 15:15:36
End at: 2019-06-27 15:16:06
Local clock offset: -3.147 ms
Remote clock offset: -2.361 ms

# Below is generated by plot.py at 2019-06-27 15:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 79.492 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 79.492 ms
Loss rate: 0.71%
```

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

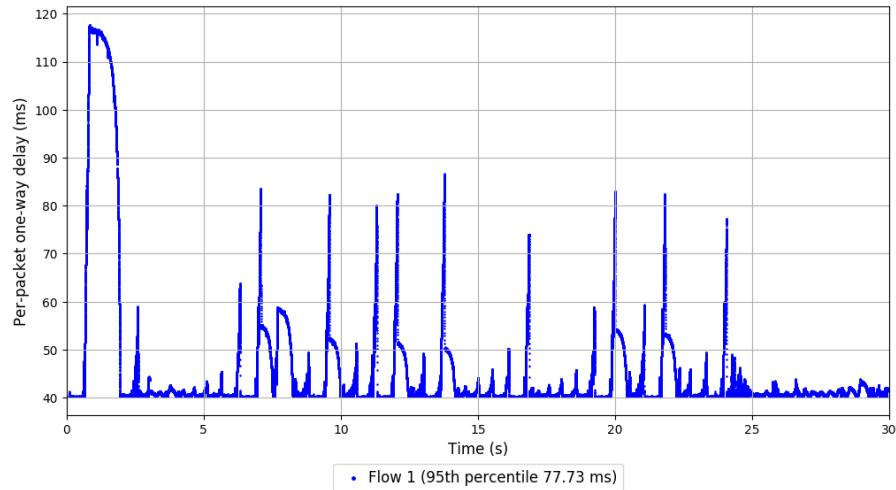
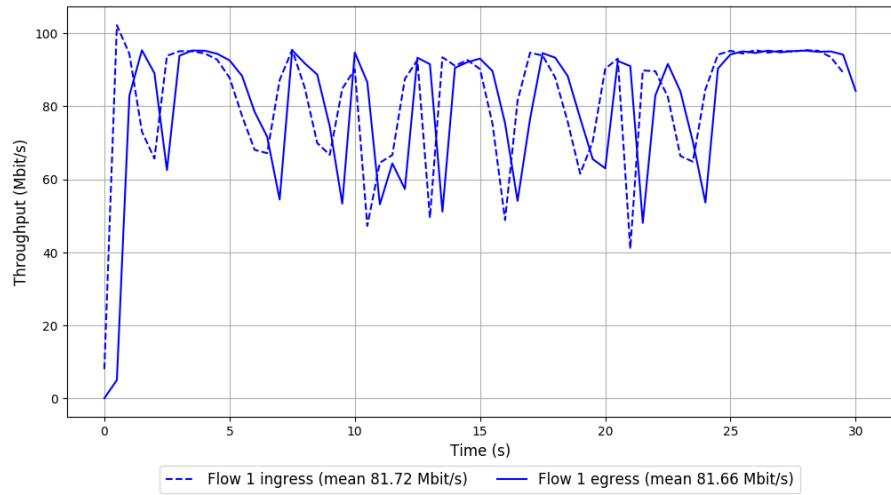


Run 1: Statistics of Copa

```
Start at: 2019-06-27 13:30:38
End at: 2019-06-27 13:31:08
Local clock offset: -0.291 ms
Remote clock offset: -2.493 ms

# Below is generated by plot.py at 2019-06-27 15:29:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.66 Mbit/s
95th percentile per-packet one-way delay: 77.732 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 81.66 Mbit/s
95th percentile per-packet one-way delay: 77.732 ms
Loss rate: 0.29%
```

### Run 1: Report of Copa — Data Link

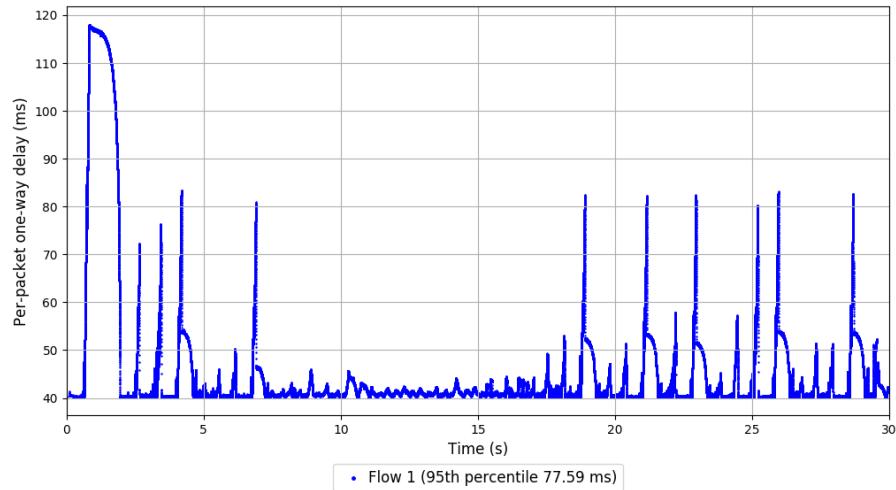
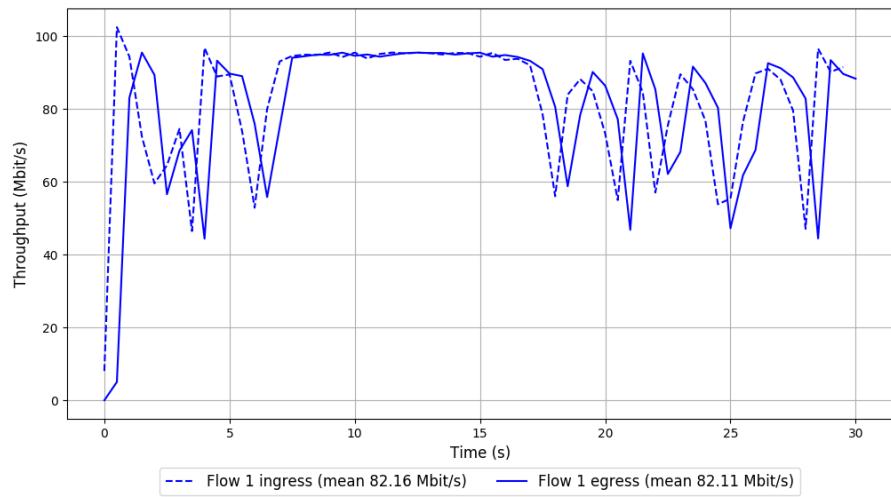


Run 2: Statistics of Copa

```
Start at: 2019-06-27 13:58:38
End at: 2019-06-27 13:59:08
Local clock offset: 0.617 ms
Remote clock offset: -1.977 ms

# Below is generated by plot.py at 2019-06-27 15:29:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.11 Mbit/s
95th percentile per-packet one-way delay: 77.595 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 82.11 Mbit/s
95th percentile per-packet one-way delay: 77.595 ms
Loss rate: 0.27%
```

## Run 2: Report of Copa — Data Link

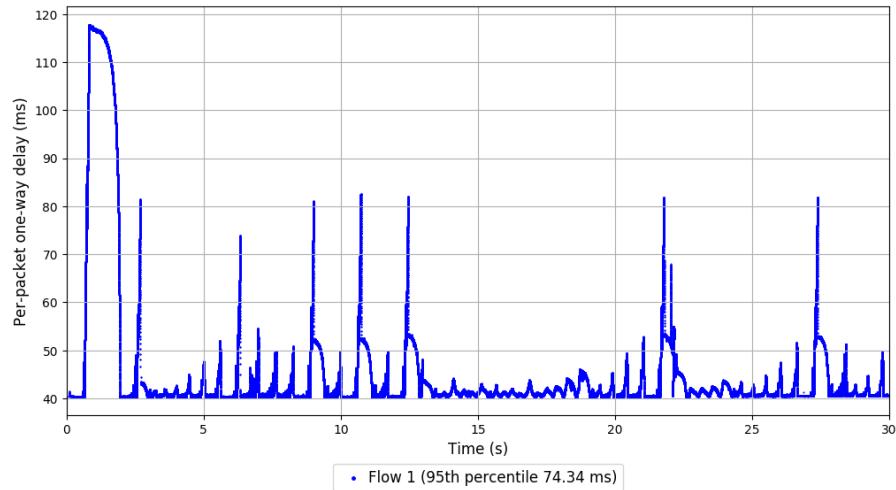
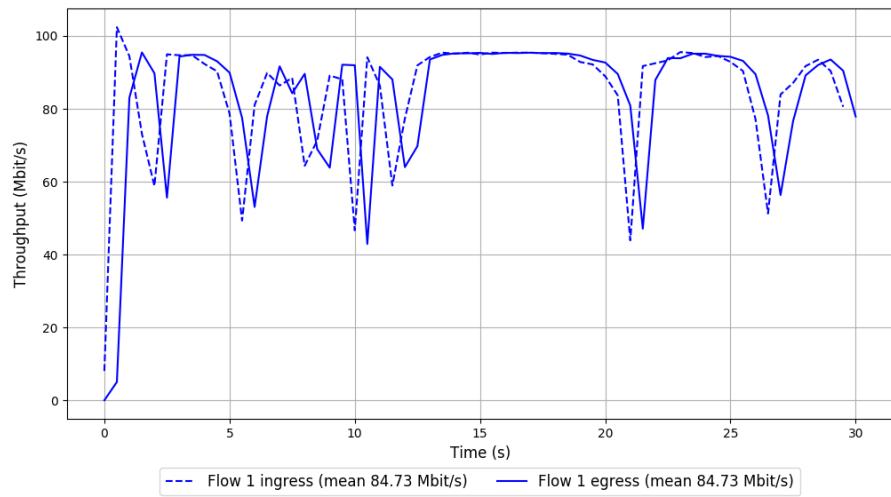


Run 3: Statistics of Copa

```
Start at: 2019-06-27 14:25:44
End at: 2019-06-27 14:26:14
Local clock offset: -1.695 ms
Remote clock offset: -2.146 ms

# Below is generated by plot.py at 2019-06-27 15:29:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.73 Mbit/s
95th percentile per-packet one-way delay: 74.340 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 84.73 Mbit/s
95th percentile per-packet one-way delay: 74.340 ms
Loss rate: 0.22%
```

### Run 3: Report of Copa — Data Link

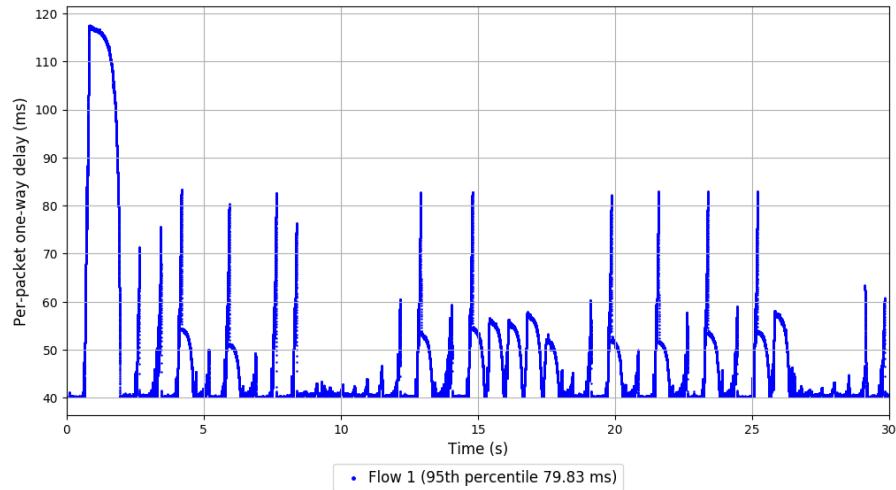
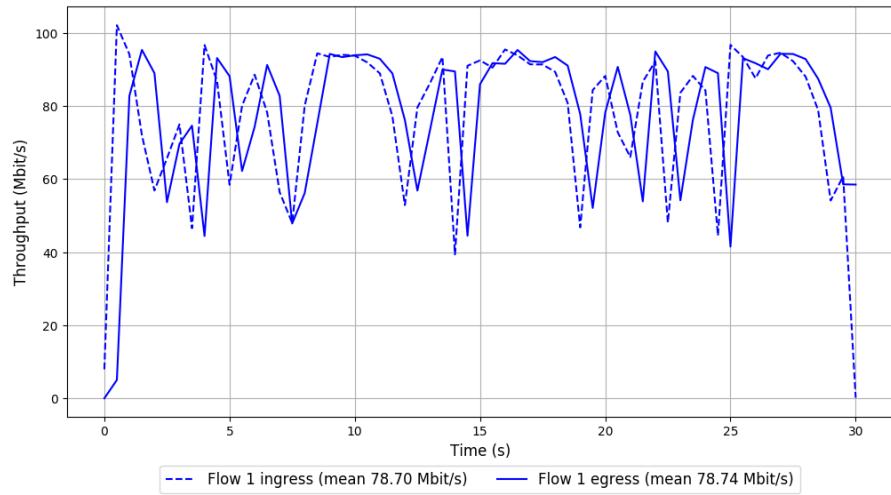


Run 4: Statistics of Copa

```
Start at: 2019-06-27 14:53:27
End at: 2019-06-27 14:53:57
Local clock offset: -3.46 ms
Remote clock offset: -2.263 ms

# Below is generated by plot.py at 2019-06-27 15:30:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.74 Mbit/s
95th percentile per-packet one-way delay: 79.832 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 78.74 Mbit/s
95th percentile per-packet one-way delay: 79.832 ms
Loss rate: 0.17%
```

### Run 4: Report of Copa — Data Link

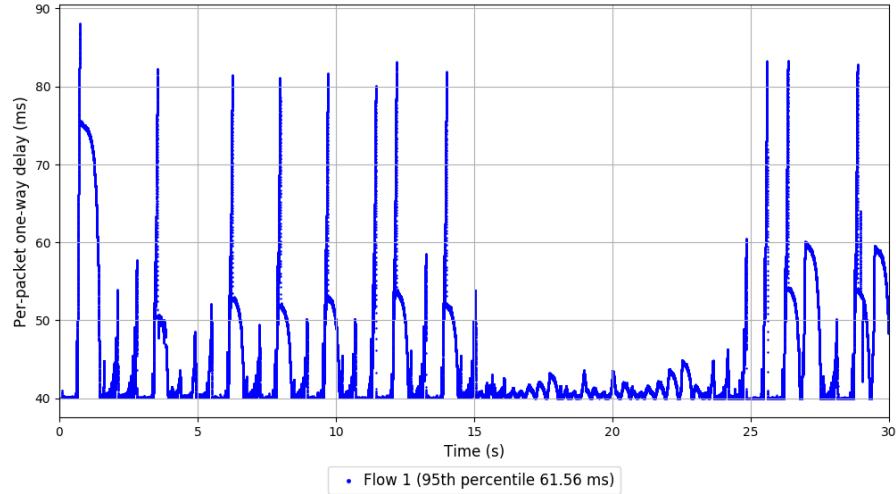
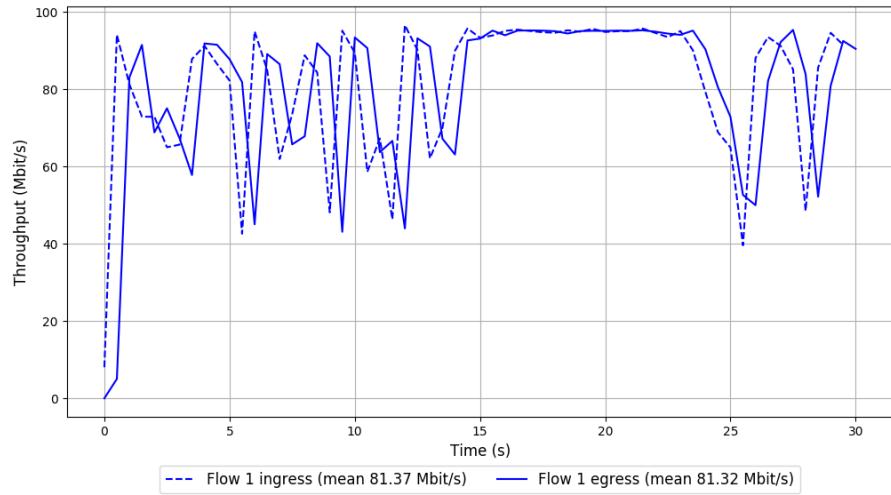


Run 5: Statistics of Copa

```
Start at: 2019-06-27 15:20:18
End at: 2019-06-27 15:20:48
Local clock offset: -2.424 ms
Remote clock offset: -2.373 ms

# Below is generated by plot.py at 2019-06-27 15:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.32 Mbit/s
95th percentile per-packet one-way delay: 61.560 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 81.32 Mbit/s
95th percentile per-packet one-way delay: 61.560 ms
Loss rate: 0.28%
```

### Run 5: Report of Copa — Data Link

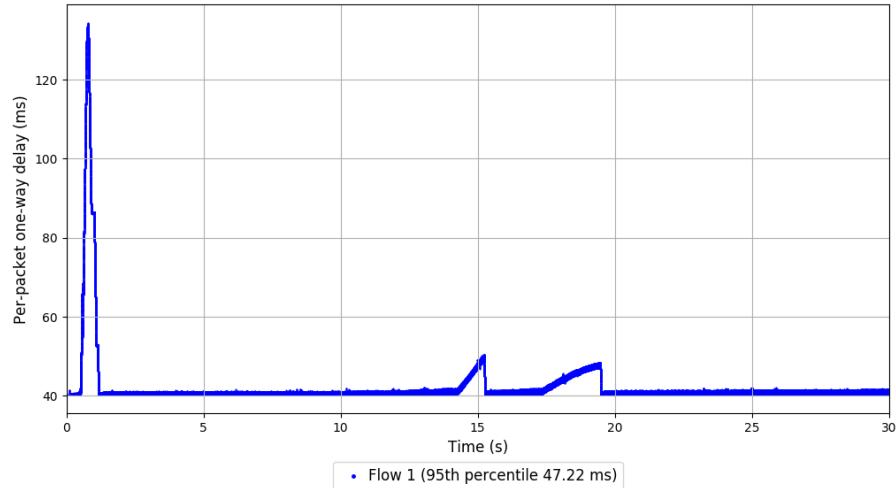
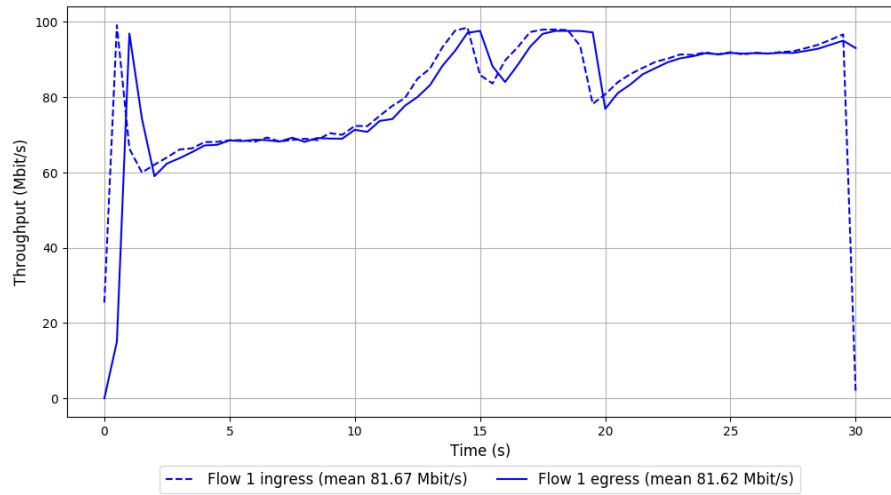


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-06-27 13:27:08
End at: 2019-06-27 13:27:38
Local clock offset: -0.753 ms
Remote clock offset: -2.741 ms

# Below is generated by plot.py at 2019-06-27 15:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.62 Mbit/s
95th percentile per-packet one-way delay: 47.223 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 81.62 Mbit/s
95th percentile per-packet one-way delay: 47.223 ms
Loss rate: 0.27%
```

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

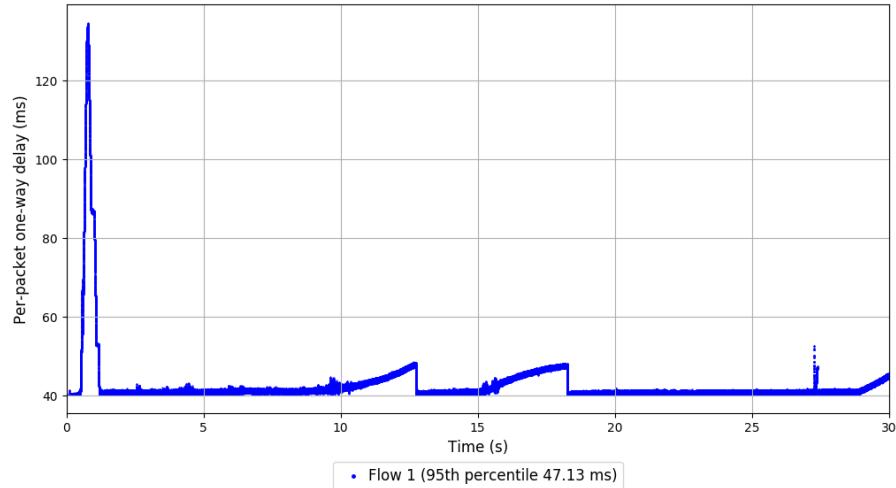
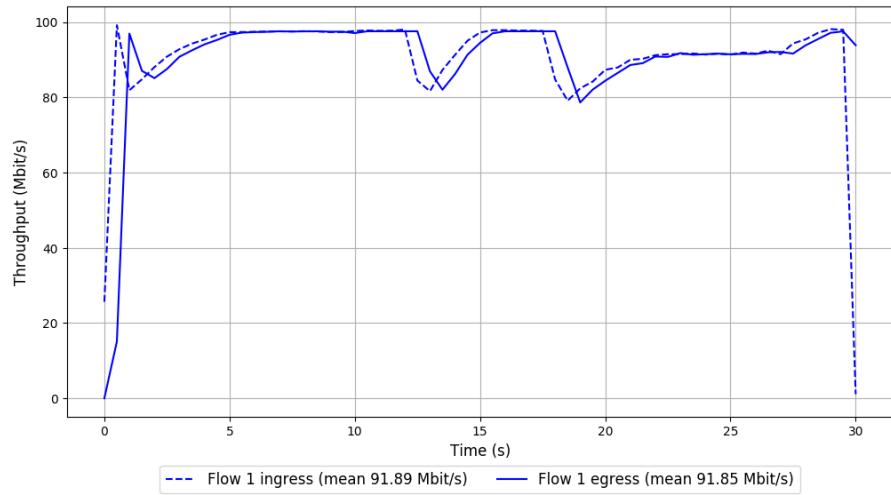


Run 2: Statistics of TCP Cubic

```
Start at: 2019-06-27 13:55:00
End at: 2019-06-27 13:55:30
Local clock offset: 0.639 ms
Remote clock offset: -1.825 ms

# Below is generated by plot.py at 2019-06-27 15:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 47.134 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 47.134 ms
Loss rate: 0.26%
```

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

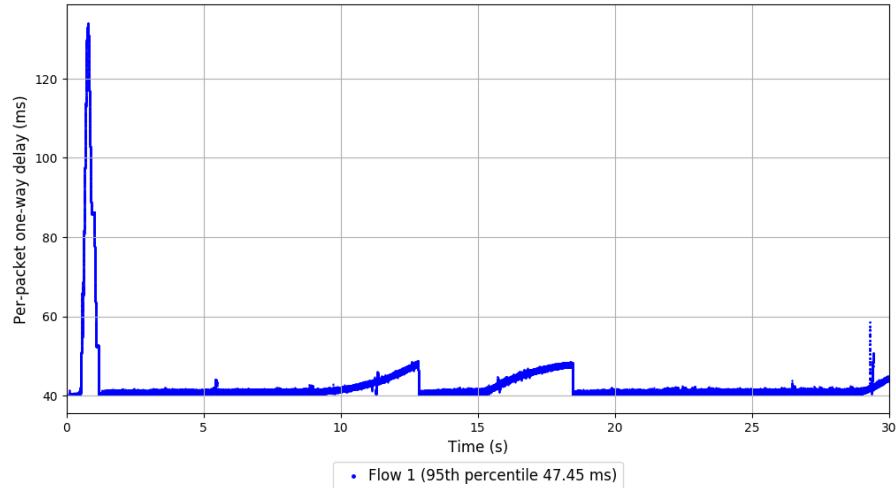
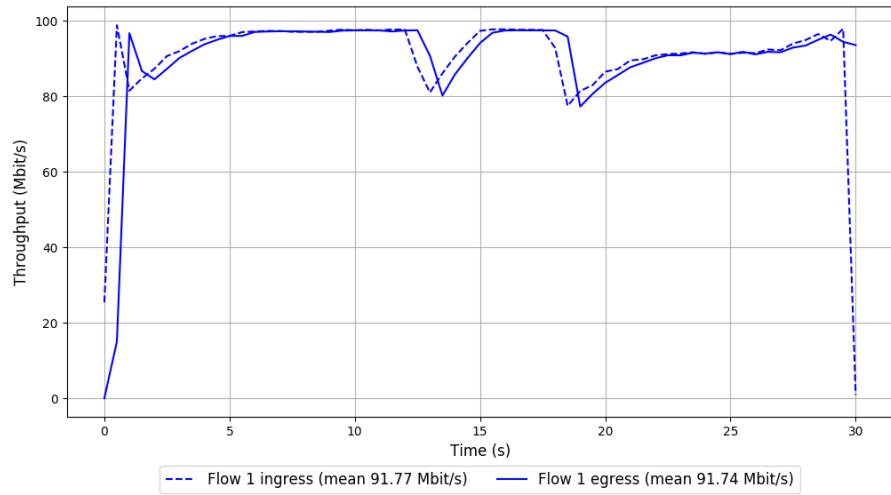


Run 3: Statistics of TCP Cubic

```
Start at: 2019-06-27 14:22:08
End at: 2019-06-27 14:22:38
Local clock offset: -0.813 ms
Remote clock offset: -2.157 ms

# Below is generated by plot.py at 2019-06-27 15:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.74 Mbit/s
95th percentile per-packet one-way delay: 47.445 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 91.74 Mbit/s
95th percentile per-packet one-way delay: 47.445 ms
Loss rate: 0.25%
```

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

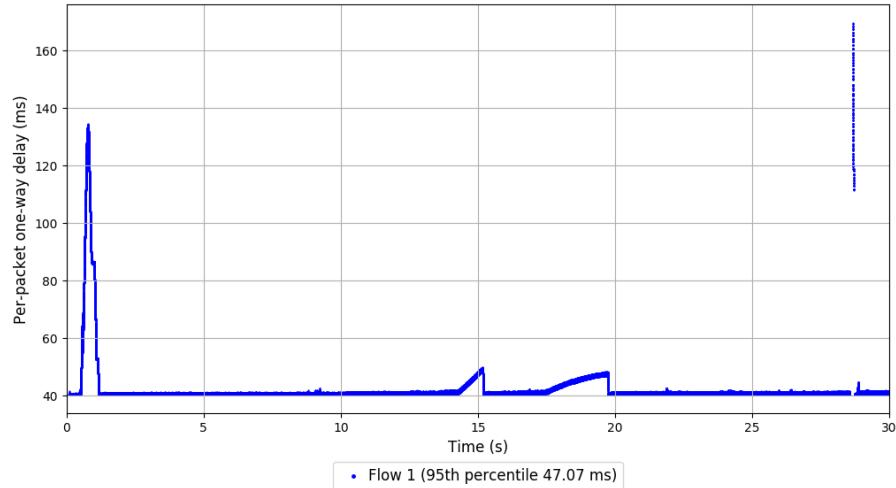
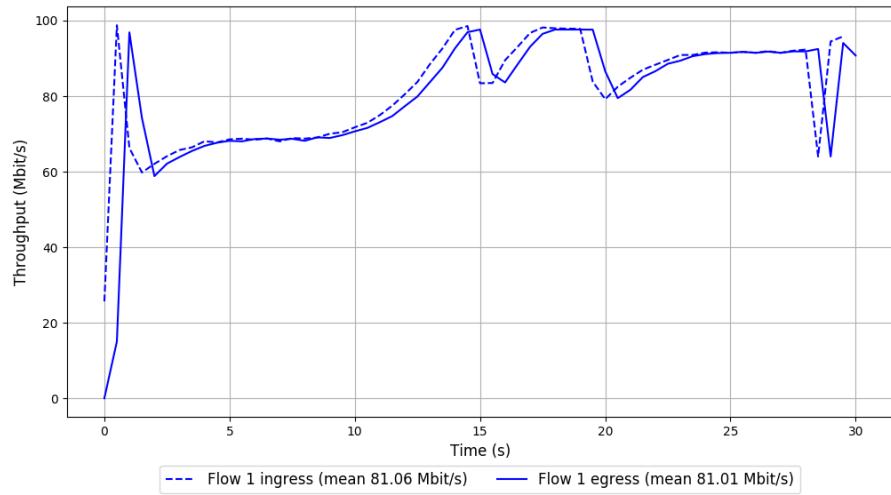


Run 4: Statistics of TCP Cubic

```
Start at: 2019-06-27 14:49:51
End at: 2019-06-27 14:50:21
Local clock offset: -3.746 ms
Remote clock offset: -2.257 ms

# Below is generated by plot.py at 2019-06-27 15:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.01 Mbit/s
95th percentile per-packet one-way delay: 47.070 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 81.01 Mbit/s
95th percentile per-packet one-way delay: 47.070 ms
Loss rate: 0.27%
```

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

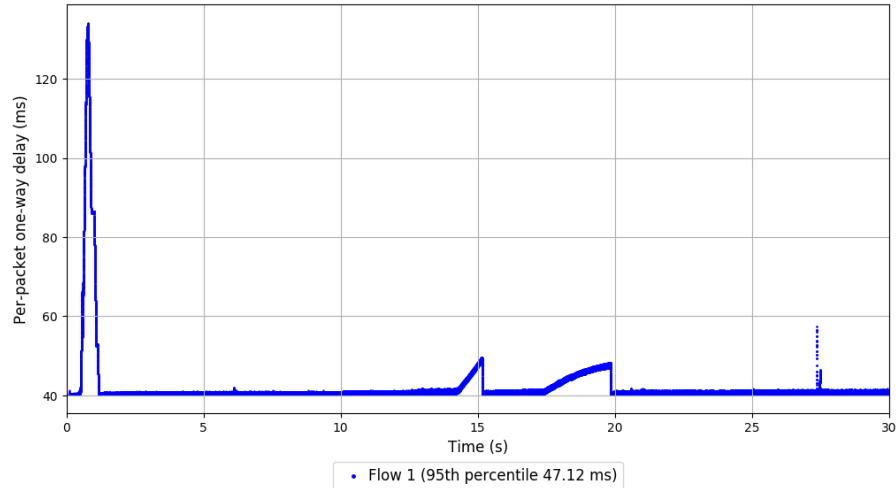
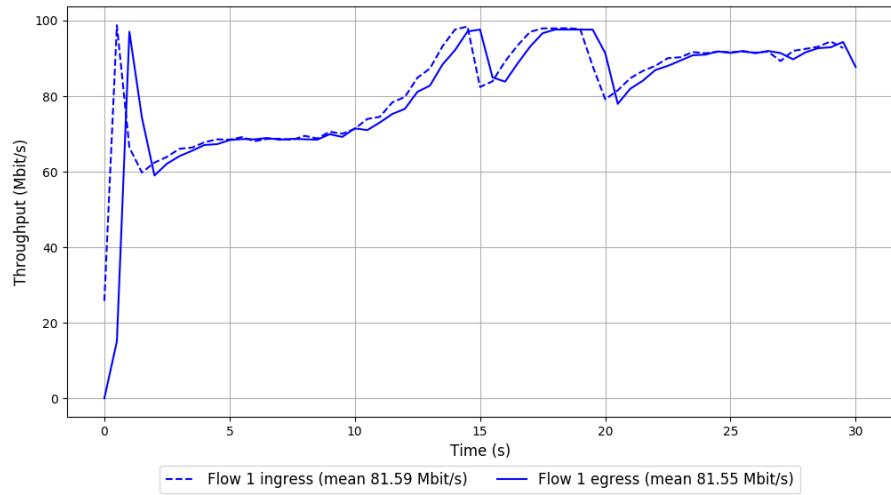


Run 5: Statistics of TCP Cubic

```
Start at: 2019-06-27 15:16:50
End at: 2019-06-27 15:17:20
Local clock offset: -3.153 ms
Remote clock offset: -2.389 ms

# Below is generated by plot.py at 2019-06-27 15:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.55 Mbit/s
95th percentile per-packet one-way delay: 47.122 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 81.55 Mbit/s
95th percentile per-packet one-way delay: 47.122 ms
Loss rate: 0.27%
```

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

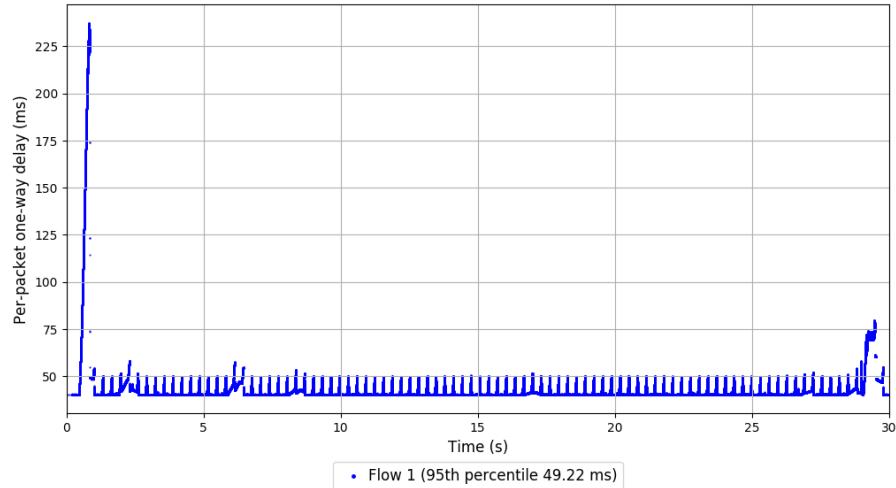
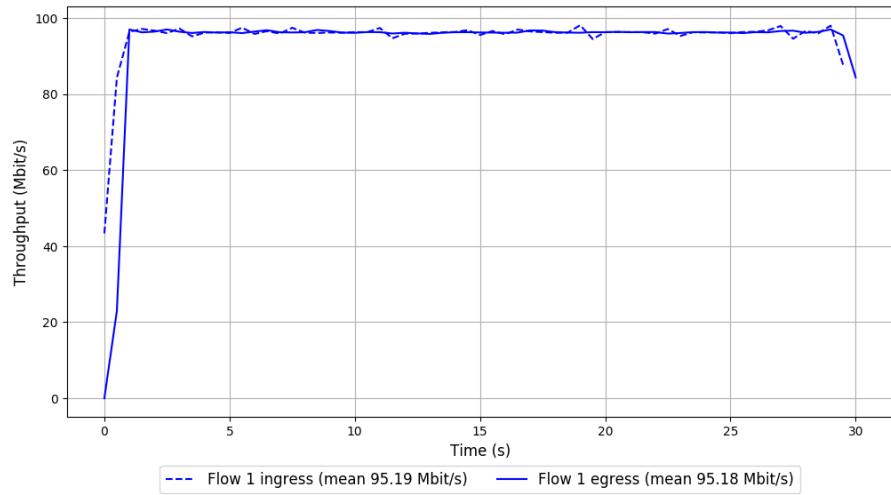


```
Run 1: Statistics of FillP
```

```
Start at: 2019-06-27 13:15:22
End at: 2019-06-27 13:15:52
Local clock offset: -3.049 ms
Remote clock offset: -3.201 ms

# Below is generated by plot.py at 2019-06-27 15:31:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 49.222 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 49.222 ms
Loss rate: 0.23%
```

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

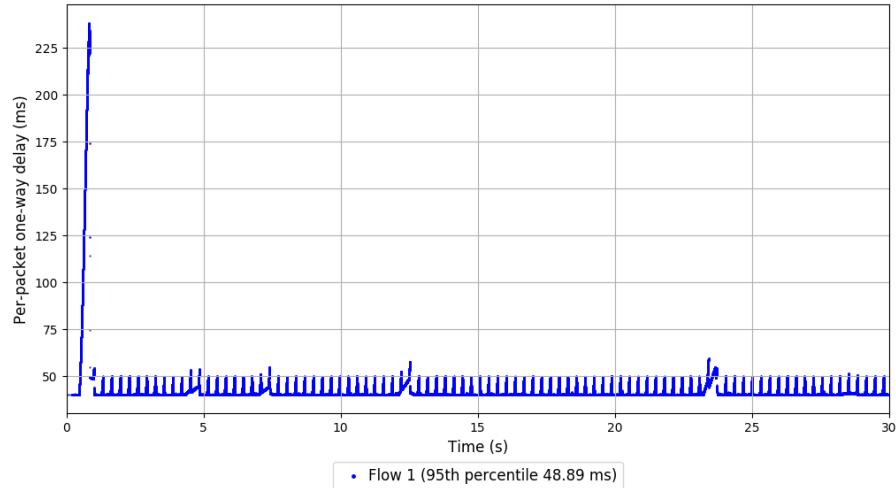
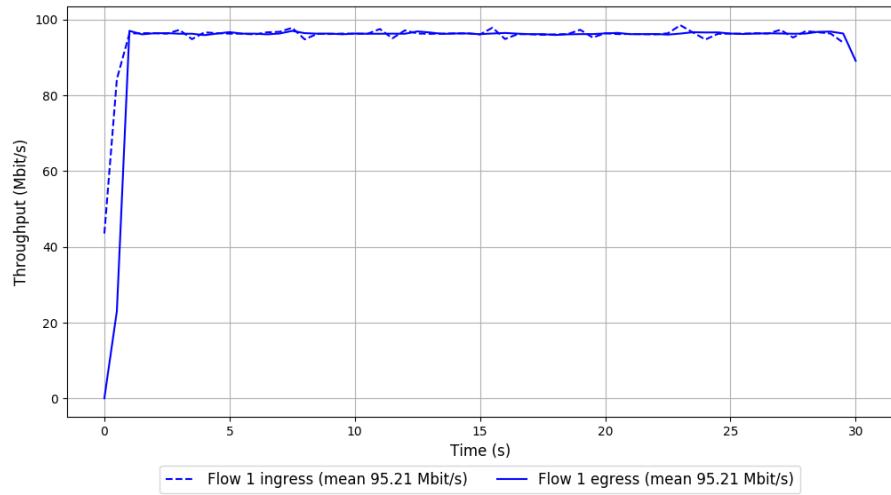


Run 2: Statistics of FillP

```
Start at: 2019-06-27 13:42:54
End at: 2019-06-27 13:43:24
Local clock offset: 0.694 ms
Remote clock offset: -1.873 ms

# Below is generated by plot.py at 2019-06-27 15:31:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 48.886 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 48.886 ms
Loss rate: 0.22%
```

## Run 2: Report of FillP — Data Link

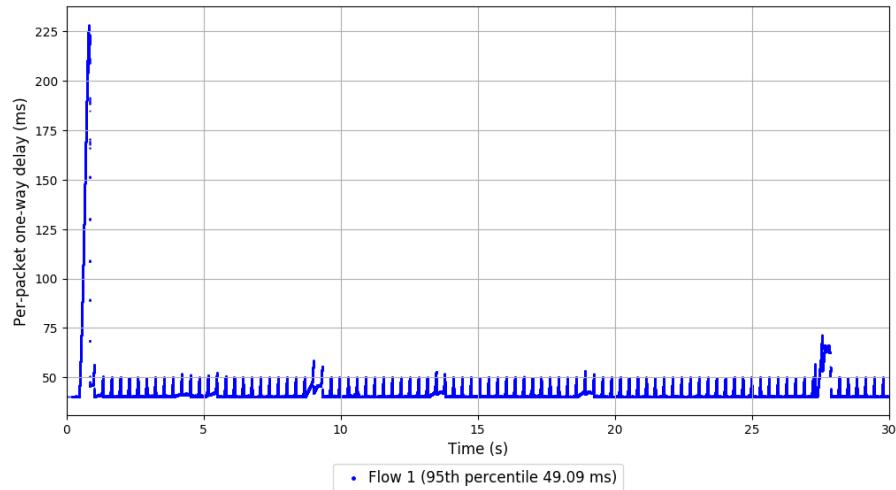
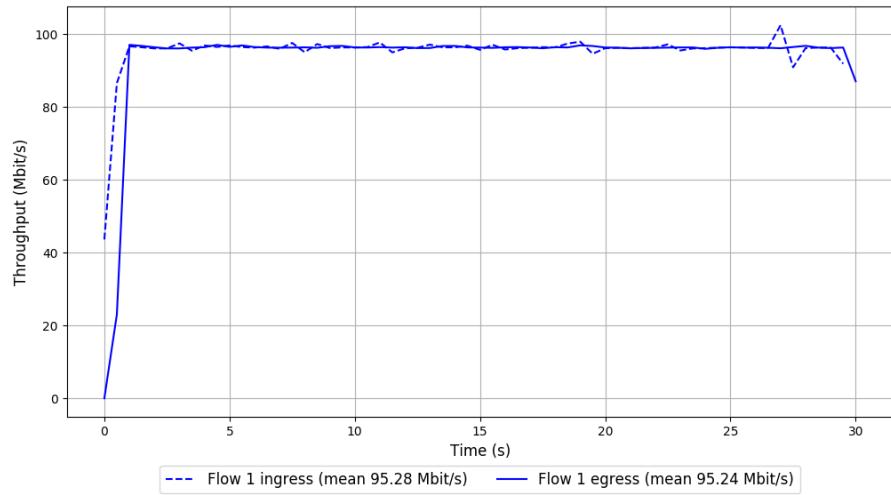


Run 3: Statistics of FillP

```
Start at: 2019-06-27 14:09:58
End at: 2019-06-27 14:10:28
Local clock offset: 0.647 ms
Remote clock offset: -2.186 ms

# Below is generated by plot.py at 2019-06-27 15:31:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.24 Mbit/s
95th percentile per-packet one-way delay: 49.086 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 95.24 Mbit/s
95th percentile per-packet one-way delay: 49.086 ms
Loss rate: 0.26%
```

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

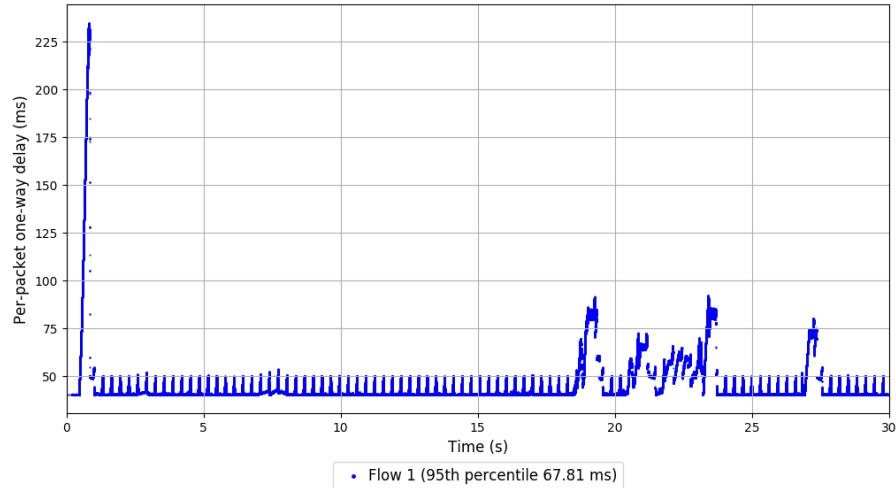
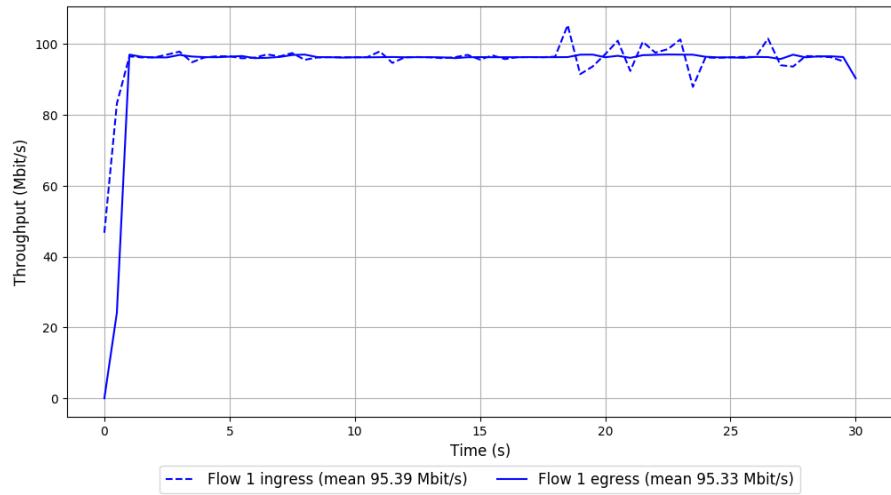


Run 4: Statistics of FillP

```
Start at: 2019-06-27 14:37:47
End at: 2019-06-27 14:38:17
Local clock offset: -3.318 ms
Remote clock offset: -2.178 ms

# Below is generated by plot.py at 2019-06-27 15:31:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.33 Mbit/s
95th percentile per-packet one-way delay: 67.813 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 95.33 Mbit/s
95th percentile per-packet one-way delay: 67.813 ms
Loss rate: 0.29%
```

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

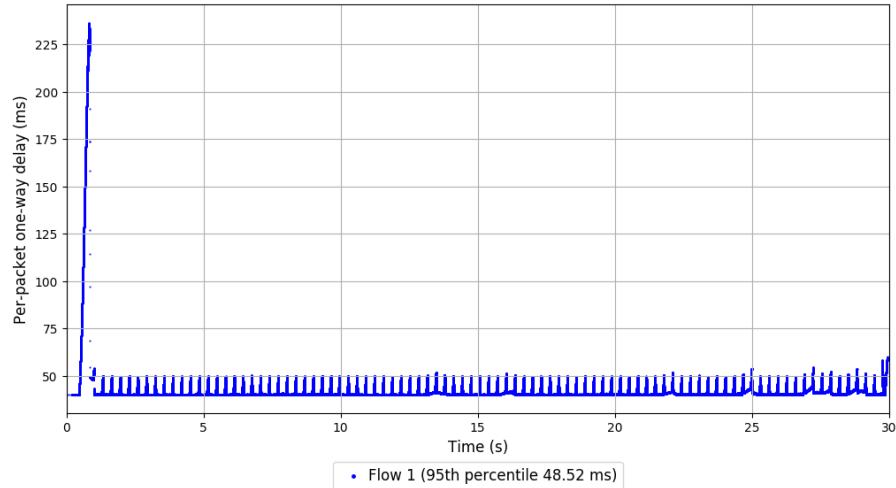
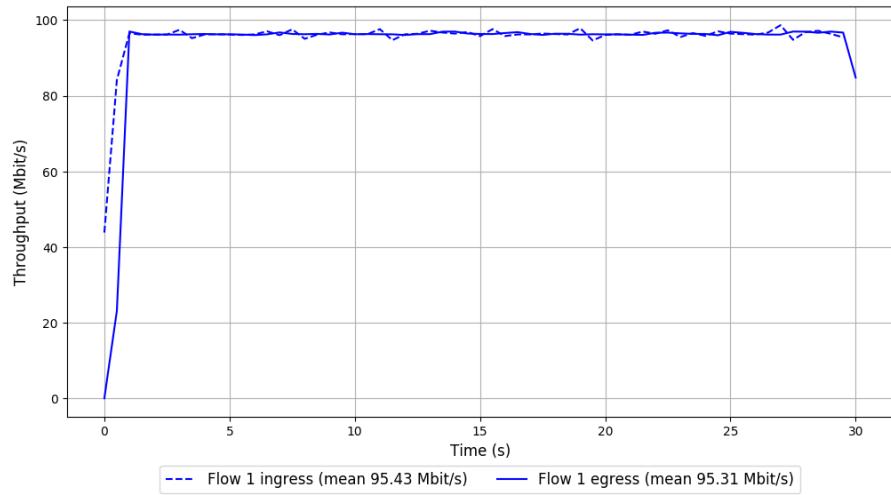


Run 5: Statistics of FillP

```
Start at: 2019-06-27 15:04:54
End at: 2019-06-27 15:05:24
Local clock offset: -3.105 ms
Remote clock offset: -2.296 ms

# Below is generated by plot.py at 2019-06-27 15:32:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 48.515 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 48.515 ms
Loss rate: 0.33%
```

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

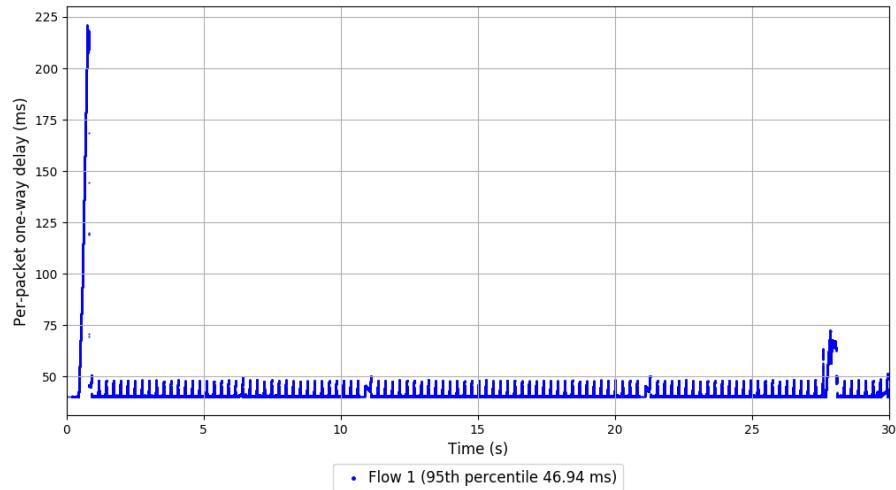
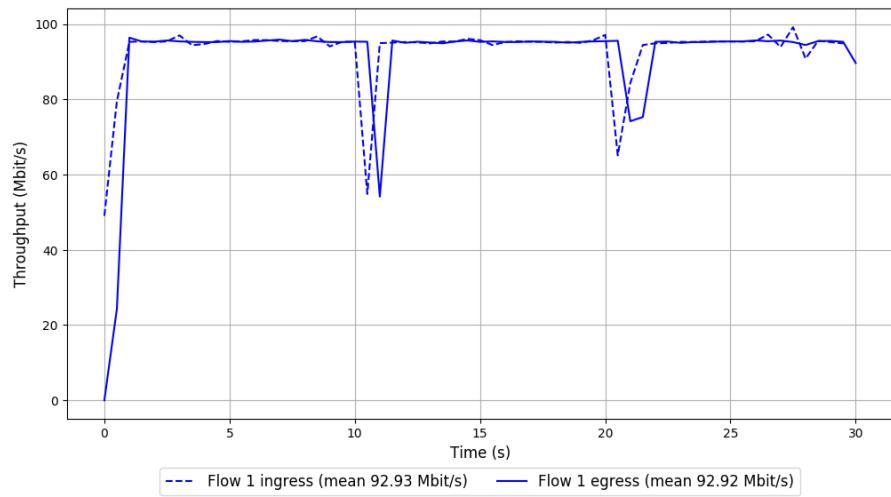


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-06-27 13:13:00
End at: 2019-06-27 13:13:30
Local clock offset: -3.0 ms
Remote clock offset: -3.28 ms

# Below is generated by plot.py at 2019-06-27 15:32:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.92 Mbit/s
95th percentile per-packet one-way delay: 46.942 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 92.92 Mbit/s
95th percentile per-packet one-way delay: 46.942 ms
Loss rate: 0.23%
```

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

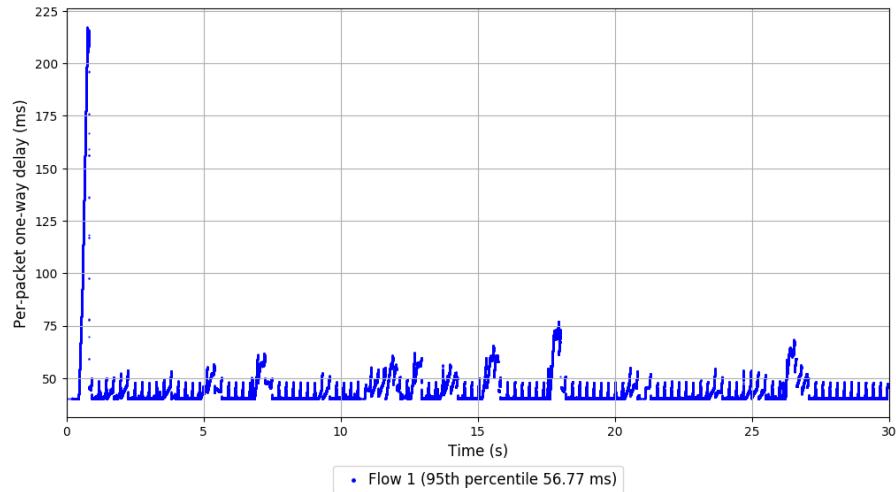
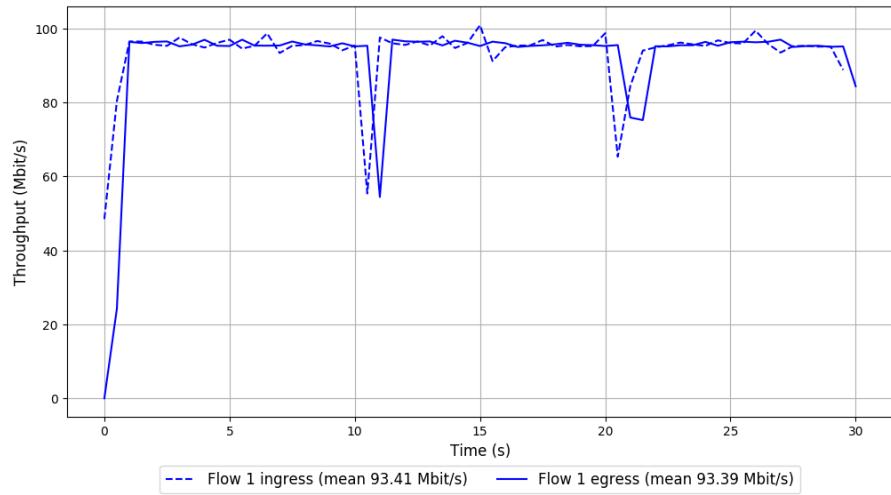


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-06-27 13:40:07
End at: 2019-06-27 13:40:37
Local clock offset: 0.567 ms
Remote clock offset: -2.055 ms

# Below is generated by plot.py at 2019-06-27 15:32:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 56.771 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 56.771 ms
Loss rate: 0.24%
```

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

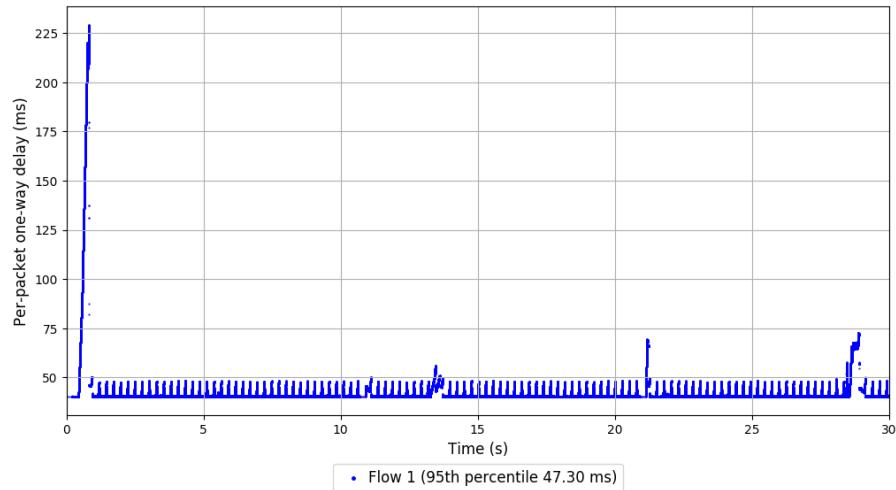
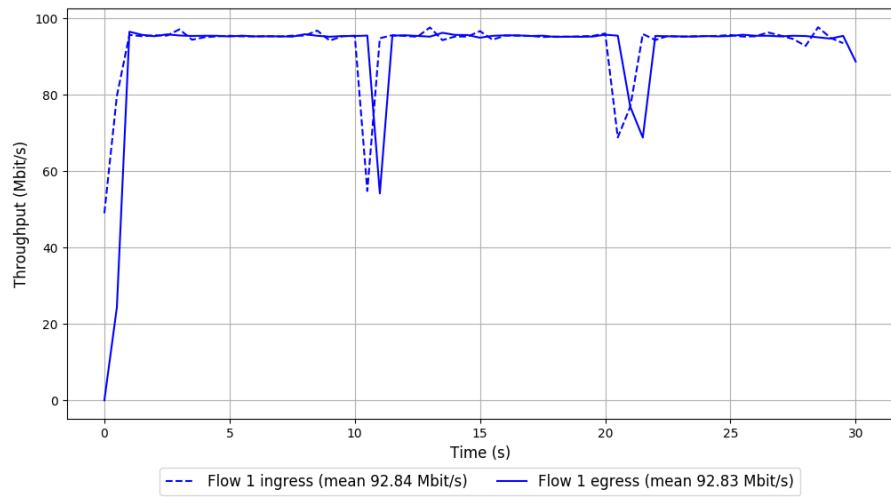


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-06-27 14:07:32
End at: 2019-06-27 14:08:02
Local clock offset: 0.616 ms
Remote clock offset: -2.174 ms

# Below is generated by plot.py at 2019-06-27 15:32:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.83 Mbit/s
95th percentile per-packet one-way delay: 47.305 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 92.83 Mbit/s
95th percentile per-packet one-way delay: 47.305 ms
Loss rate: 0.23%
```

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

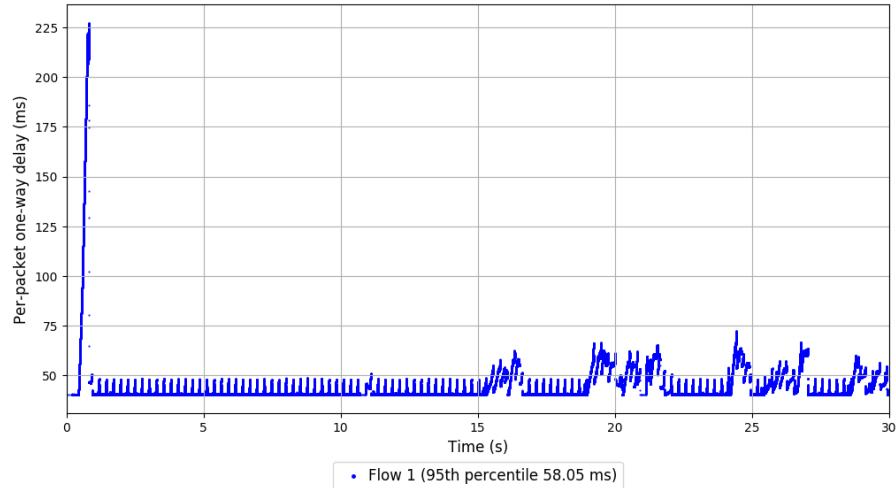
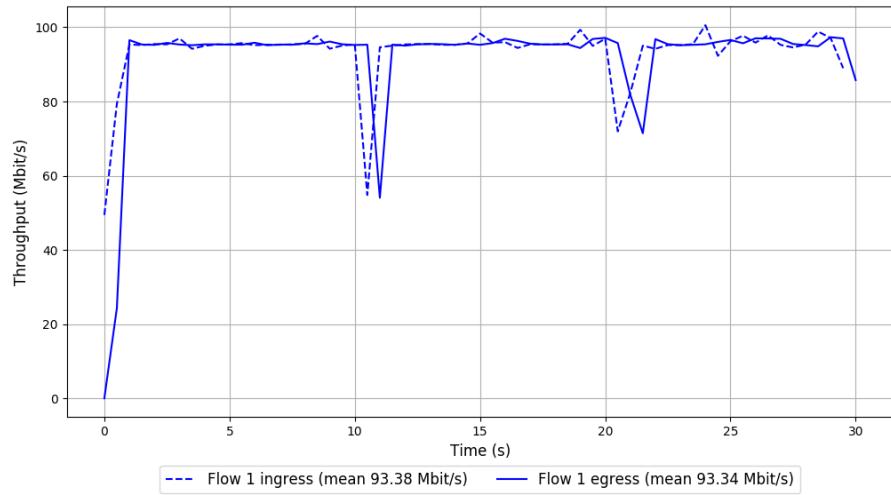


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-06-27 14:34:54
End at: 2019-06-27 14:35:24
Local clock offset: -3.077 ms
Remote clock offset: -2.173 ms

# Below is generated by plot.py at 2019-06-27 15:32:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 58.048 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 58.048 ms
Loss rate: 0.26%
```

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

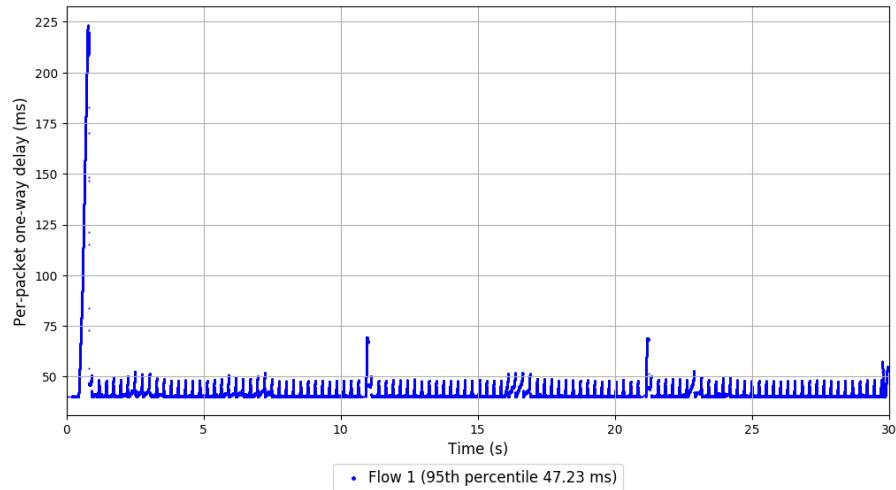
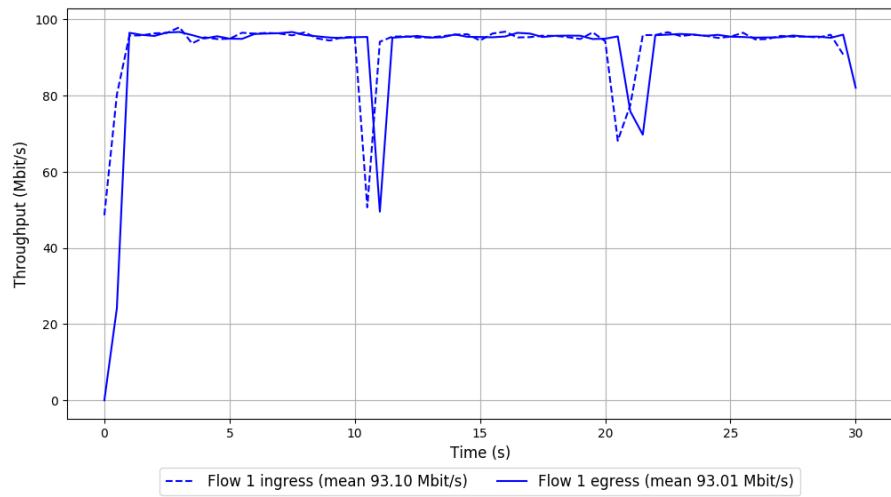


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-06-27 15:02:30
End at: 2019-06-27 15:03:00
Local clock offset: -3.15 ms
Remote clock offset: -2.329 ms

# Below is generated by plot.py at 2019-06-27 15:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.01 Mbit/s
95th percentile per-packet one-way delay: 47.235 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 93.01 Mbit/s
95th percentile per-packet one-way delay: 47.235 ms
Loss rate: 0.31%
```

Run 5: Report of FillP-Sheep — Data Link

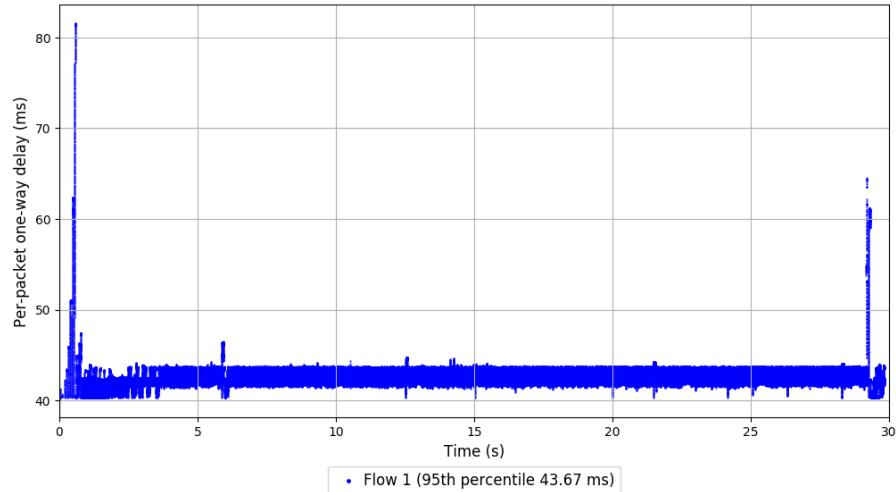
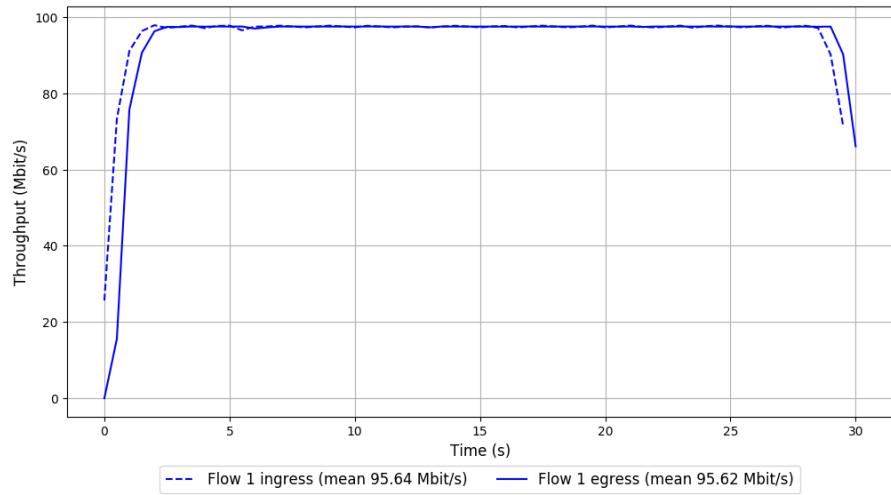


Run 1: Statistics of Indigo

```
Start at: 2019-06-27 13:14:10
End at: 2019-06-27 13:14:40
Local clock offset: -3.04 ms
Remote clock offset: -3.179 ms

# Below is generated by plot.py at 2019-06-27 15:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 43.666 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 43.666 ms
Loss rate: 0.23%
```

## Run 1: Report of Indigo — Data Link

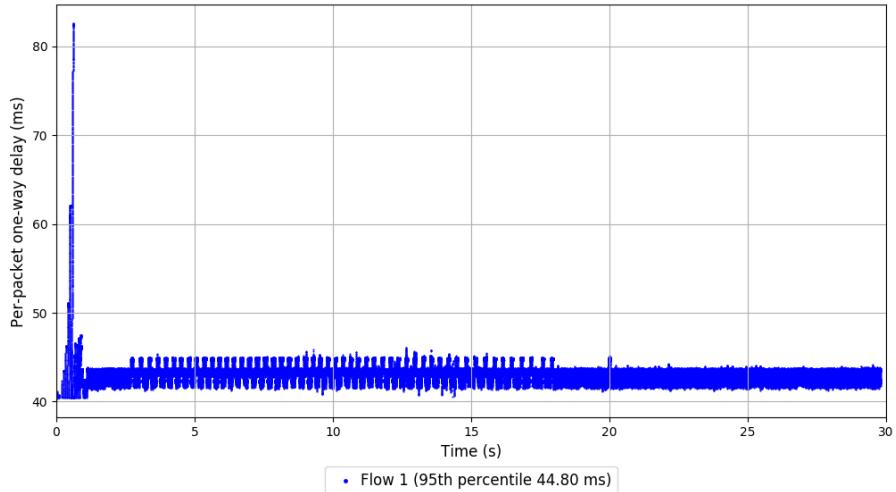
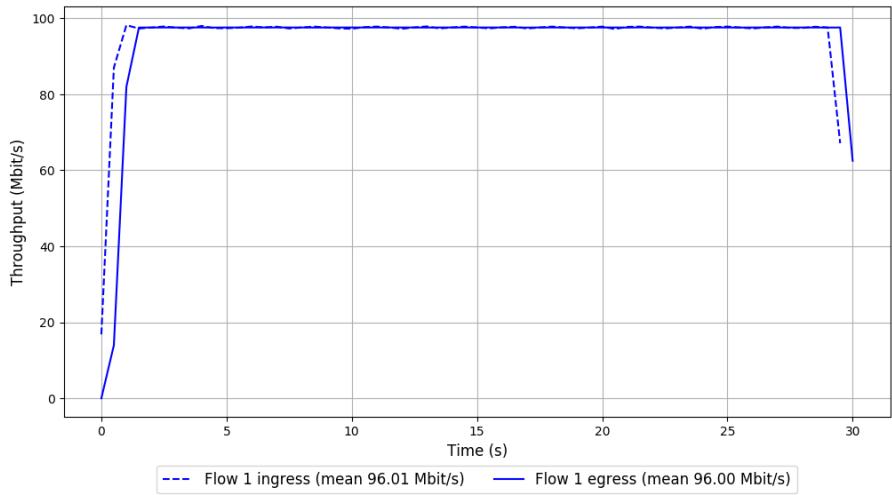


Run 2: Statistics of Indigo

```
Start at: 2019-06-27 13:41:28
End at: 2019-06-27 13:41:58
Local clock offset: 0.604 ms
Remote clock offset: -1.959 ms

# Below is generated by plot.py at 2019-06-27 15:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 44.805 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 44.805 ms
Loss rate: 0.23%
```

## Run 2: Report of Indigo — Data Link

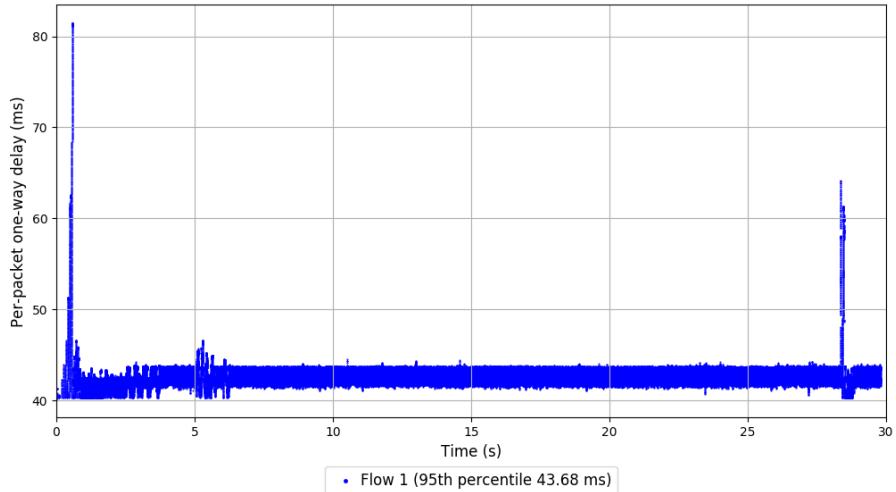
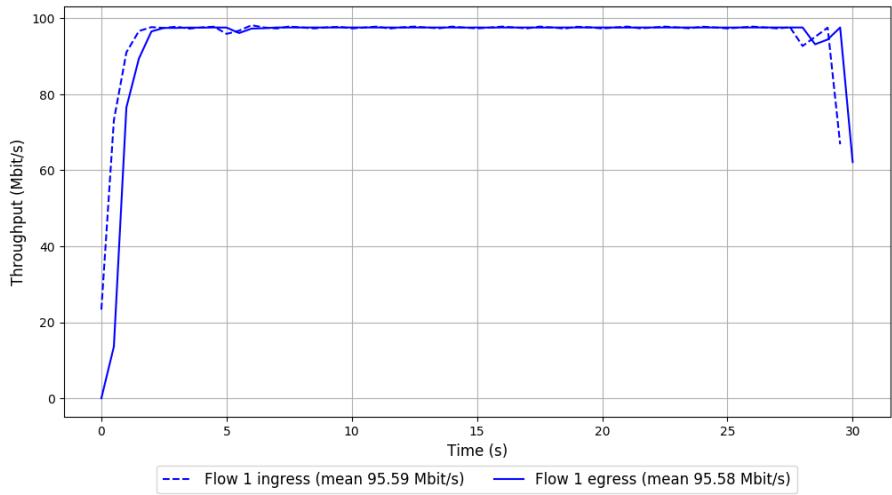


Run 3: Statistics of Indigo

```
Start at: 2019-06-27 14:08:43
End at: 2019-06-27 14:09:13
Local clock offset: 0.628 ms
Remote clock offset: -2.168 ms

# Below is generated by plot.py at 2019-06-27 15:33:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 43.684 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 43.684 ms
Loss rate: 0.23%
```

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

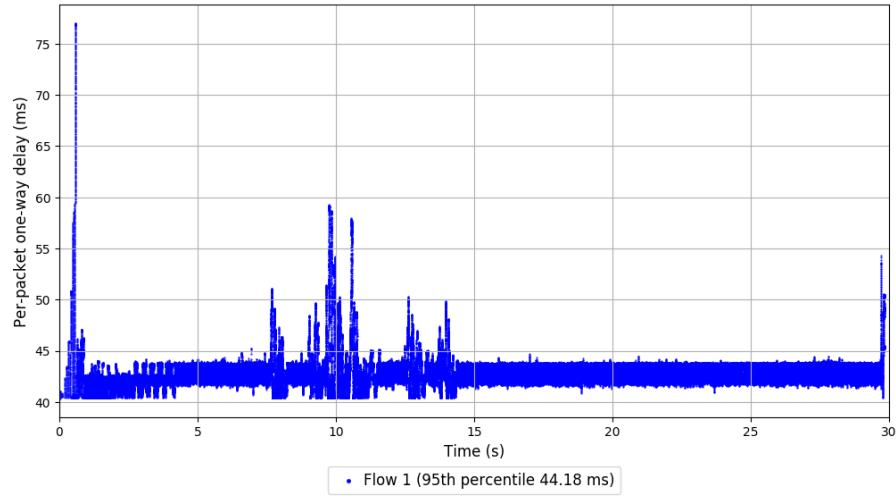
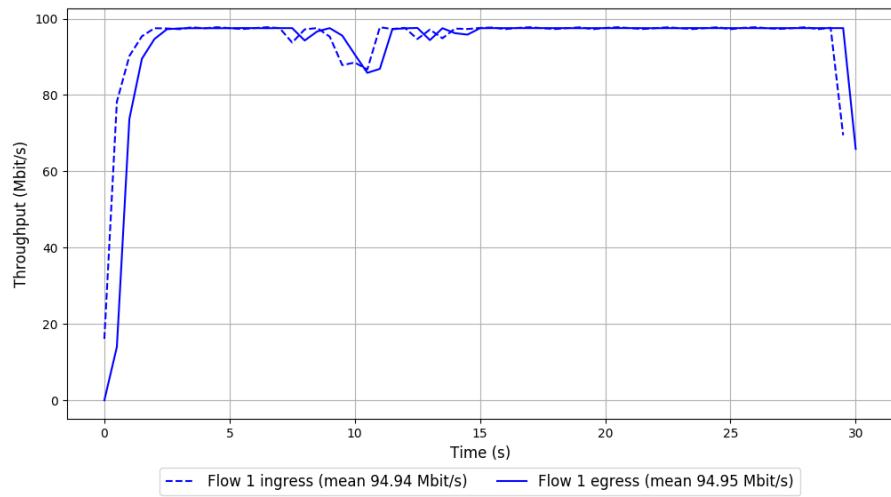


Run 4: Statistics of Indigo

```
Start at: 2019-06-27 14:36:22
End at: 2019-06-27 14:36:52
Local clock offset: -3.171 ms
Remote clock offset: -2.198 ms

# Below is generated by plot.py at 2019-06-27 15:33:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.95 Mbit/s
95th percentile per-packet one-way delay: 44.181 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 94.95 Mbit/s
95th percentile per-packet one-way delay: 44.181 ms
Loss rate: 0.21%
```

## Run 4: Report of Indigo — Data Link

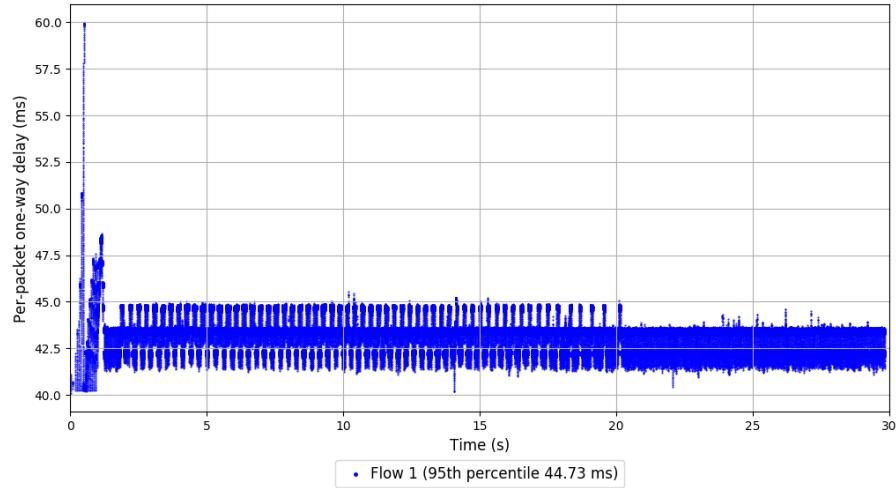
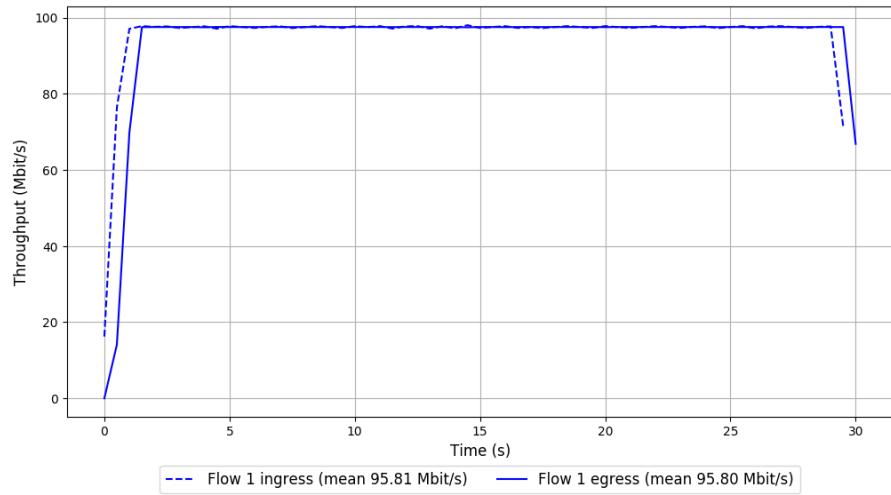


Run 5: Statistics of Indigo

```
Start at: 2019-06-27 15:03:41
End at: 2019-06-27 15:04:11
Local clock offset: -3.144 ms
Remote clock offset: -2.325 ms

# Below is generated by plot.py at 2019-06-27 15:33:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 44.728 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 44.728 ms
Loss rate: 0.23%
```

## Run 5: Report of Indigo — Data Link

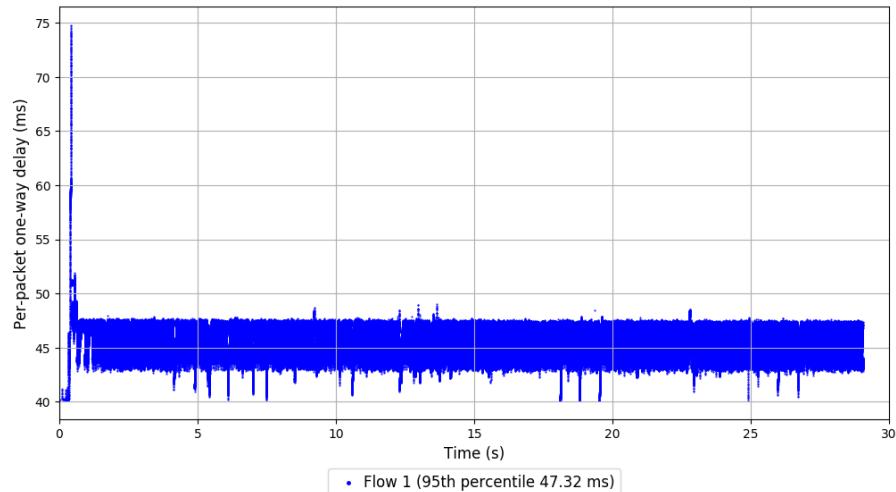
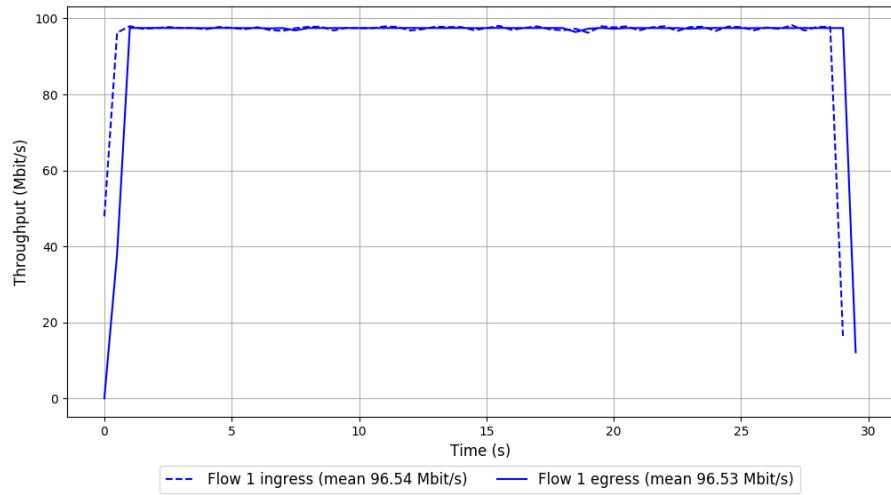


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 13:19:56
End at: 2019-06-27 13:20:26
Local clock offset: -2.477 ms
Remote clock offset: -3.066 ms

# Below is generated by plot.py at 2019-06-27 15:33:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 47.323 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 47.323 ms
Loss rate: 0.24%
```

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

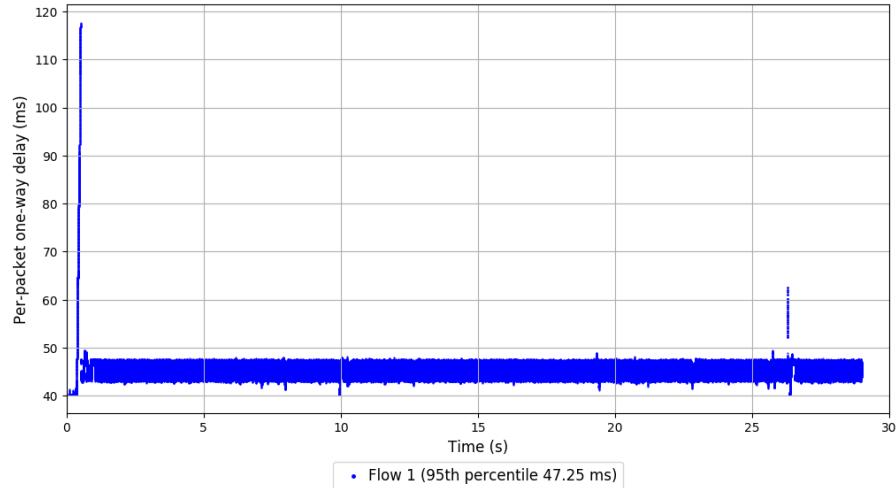
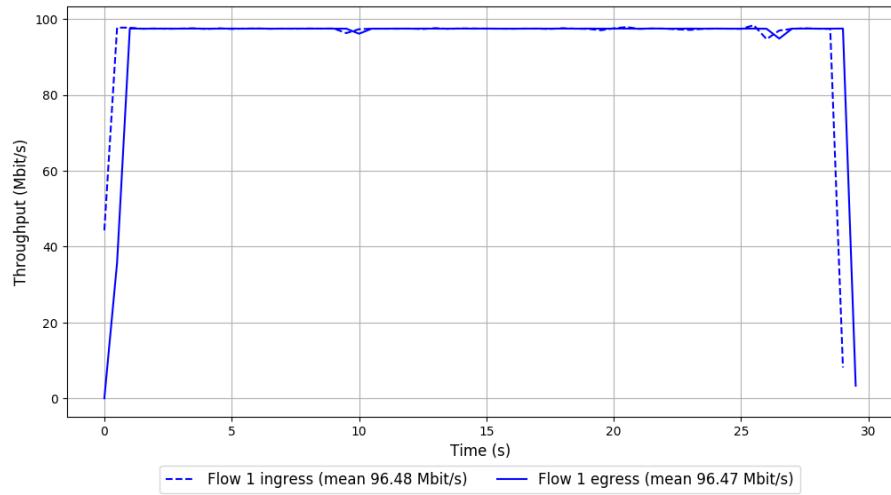


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 13:47:38
End at: 2019-06-27 13:48:08
Local clock offset: 0.904 ms
Remote clock offset: -1.623 ms

# Below is generated by plot.py at 2019-06-27 15:33:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 47.254 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 47.254 ms
Loss rate: 0.24%
```

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

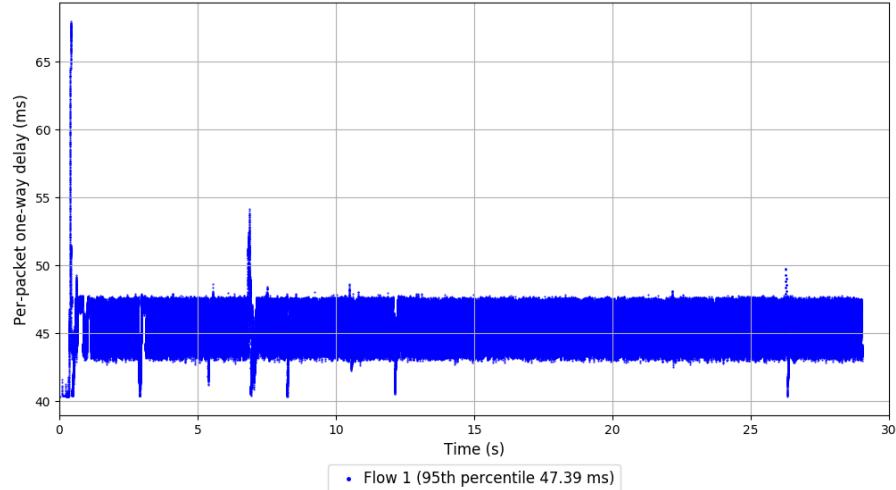
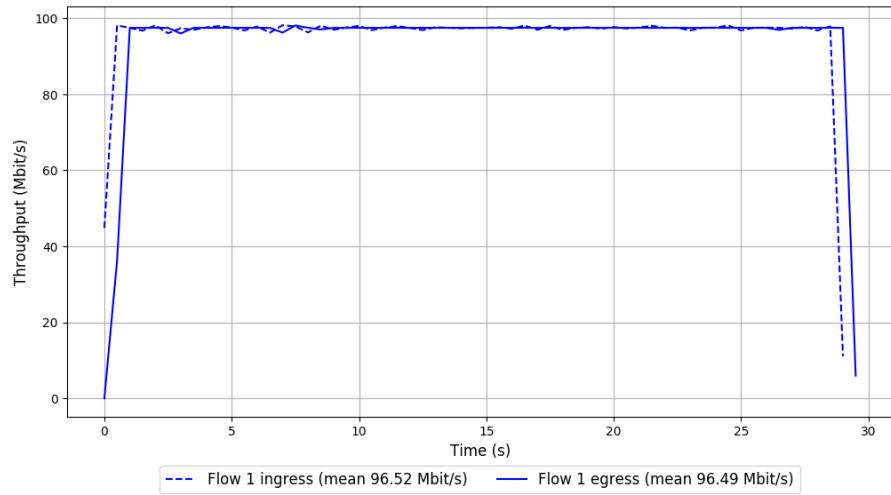


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 14:14:34
End at: 2019-06-27 14:15:04
Local clock offset: 0.704 ms
Remote clock offset: -2.186 ms

# Below is generated by plot.py at 2019-06-27 15:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 47.392 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 47.392 ms
Loss rate: 0.25%
```

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

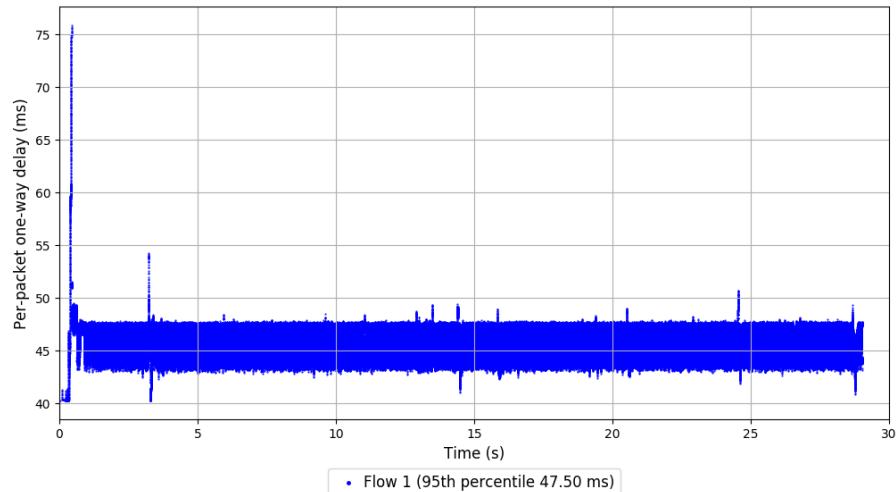
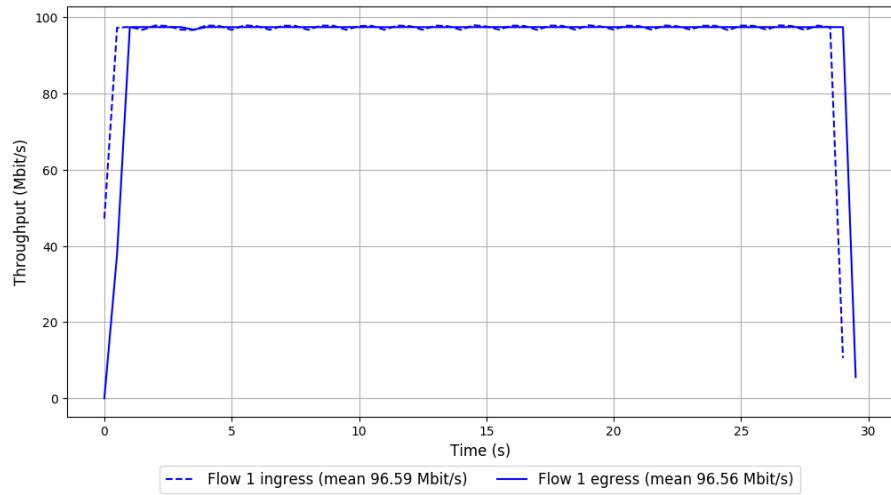


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 14:42:29
End at: 2019-06-27 14:42:59
Local clock offset: -3.633 ms
Remote clock offset: -2.284 ms

# Below is generated by plot.py at 2019-06-27 15:33:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 47.503 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 47.503 ms
Loss rate: 0.25%
```

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

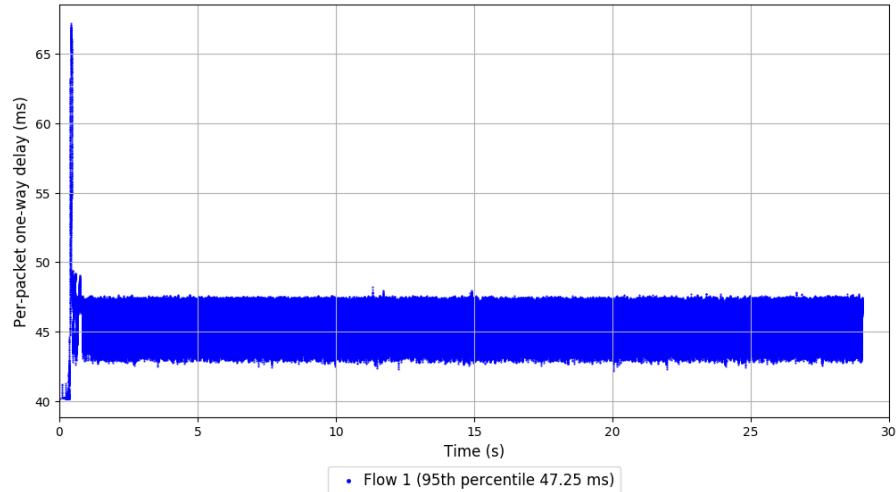
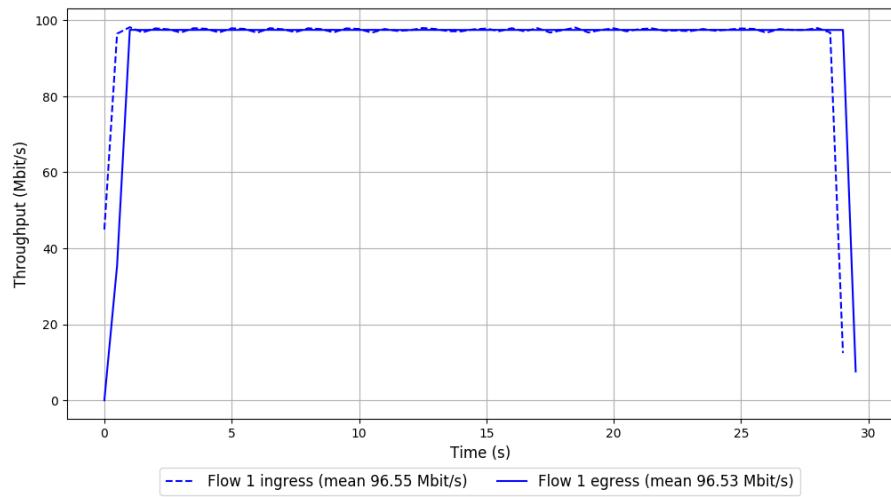


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 15:09:30
End at: 2019-06-27 15:10:00
Local clock offset: -3.137 ms
Remote clock offset: -2.189 ms

# Below is generated by plot.py at 2019-06-27 15:34:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 47.248 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 47.248 ms
Loss rate: 0.24%
```

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

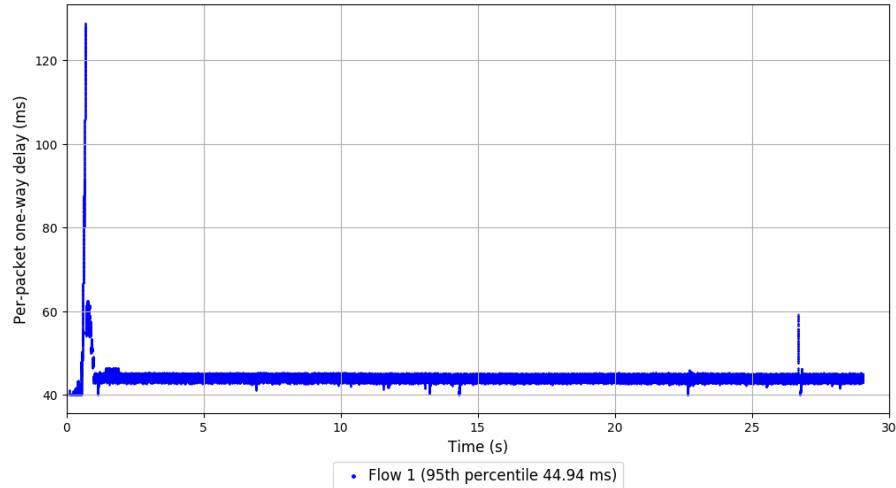
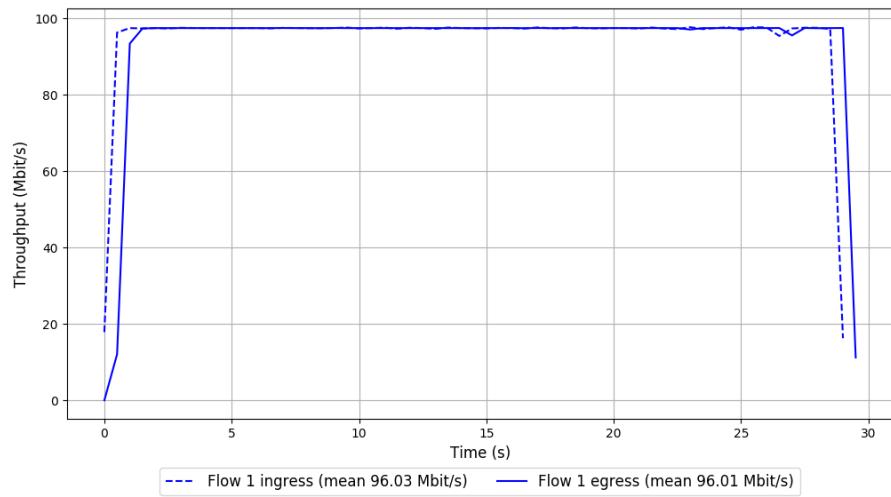


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 13:22:19
End at: 2019-06-27 13:22:49
Local clock offset: -1.765 ms
Remote clock offset: -2.944 ms

# Below is generated by plot.py at 2019-06-27 15:34:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 44.944 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 44.944 ms
Loss rate: 0.24%
```

## Run 1: Report of Indigo-MusesC5 — Data Link

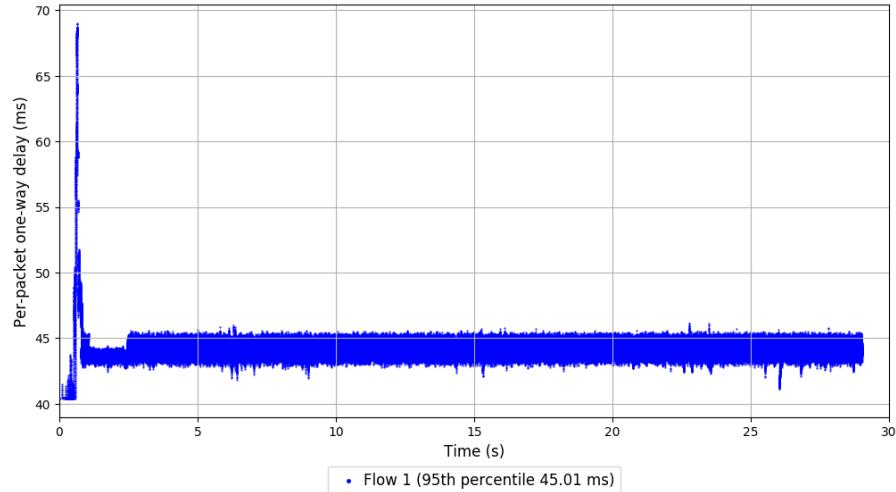
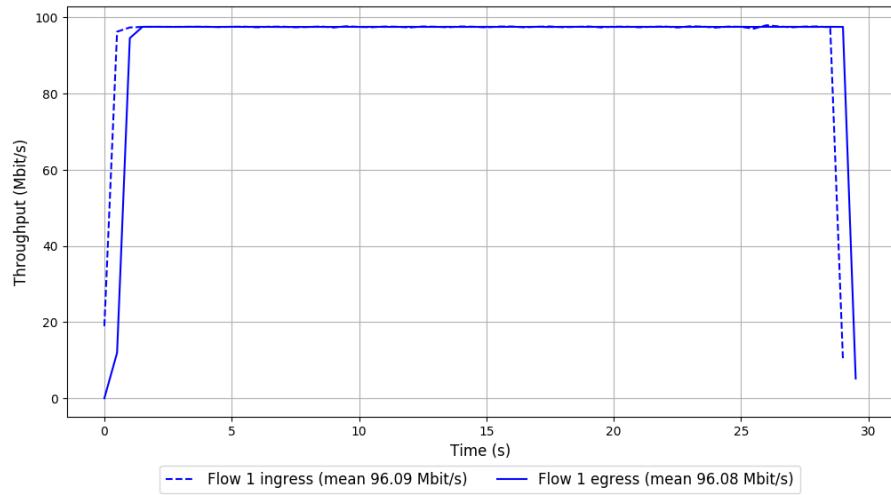


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 13:50:08
End at: 2019-06-27 13:50:38
Local clock offset: 0.834 ms
Remote clock offset: -1.689 ms

# Below is generated by plot.py at 2019-06-27 15:34:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 45.010 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 45.010 ms
Loss rate: 0.24%
```

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

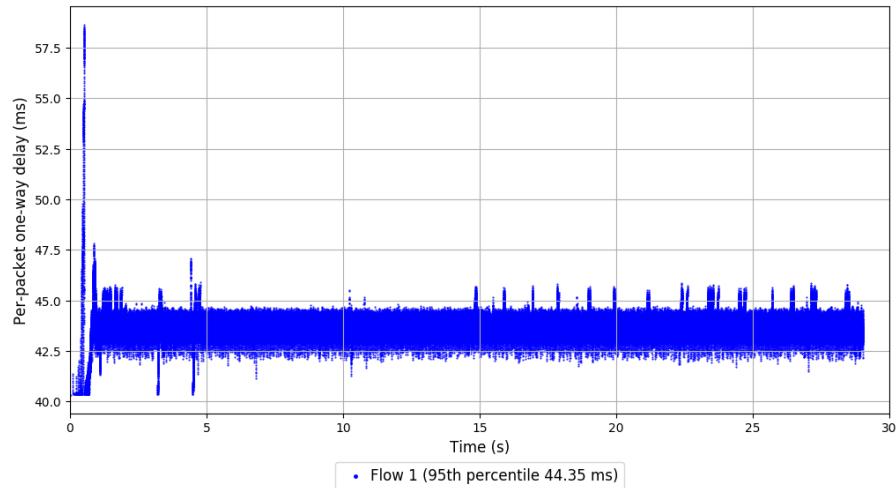
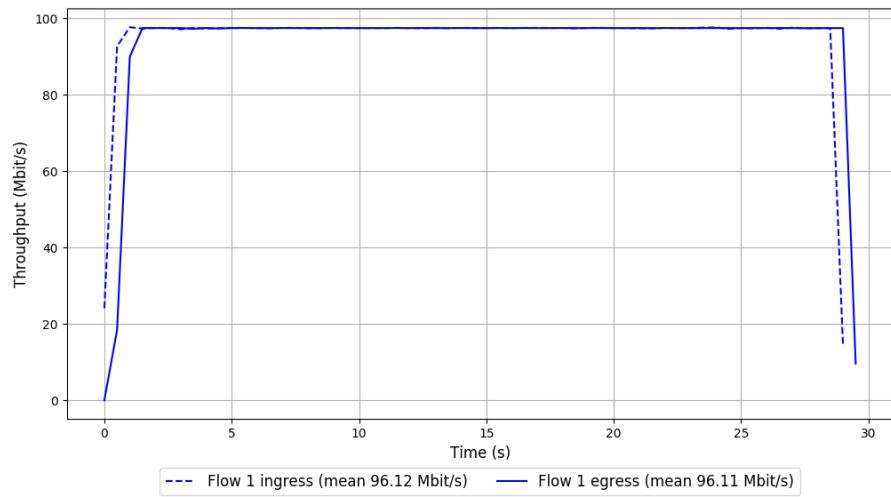


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 14:17:04
End at: 2019-06-27 14:17:34
Local clock offset: 0.75 ms
Remote clock offset: -2.215 ms

# Below is generated by plot.py at 2019-06-27 15:34:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 44.353 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 44.353 ms
Loss rate: 0.24%
```

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

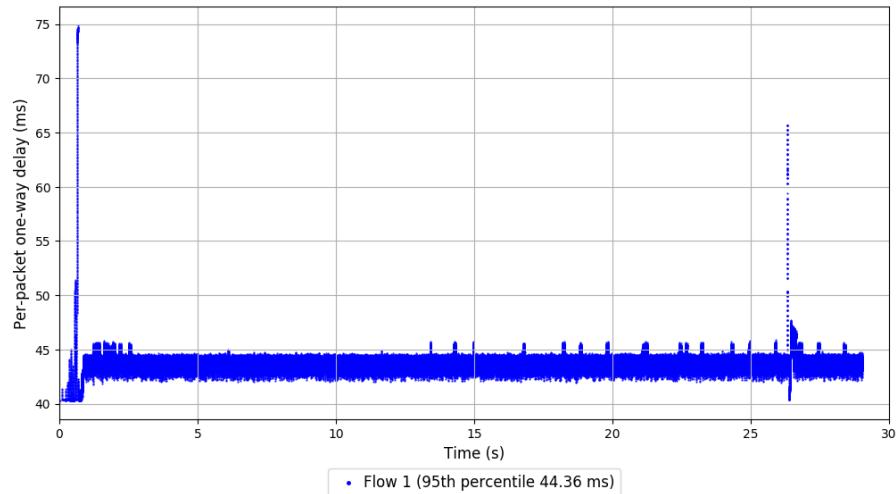
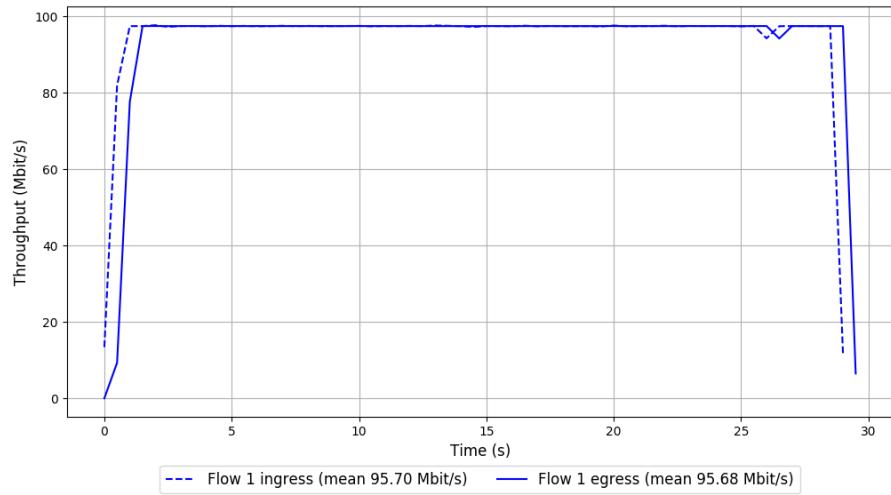


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 14:44:55
End at: 2019-06-27 14:45:25
Local clock offset: -3.773 ms
Remote clock offset: -2.227 ms

# Below is generated by plot.py at 2019-06-27 15:34:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 44.359 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 44.359 ms
Loss rate: 0.25%
```

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

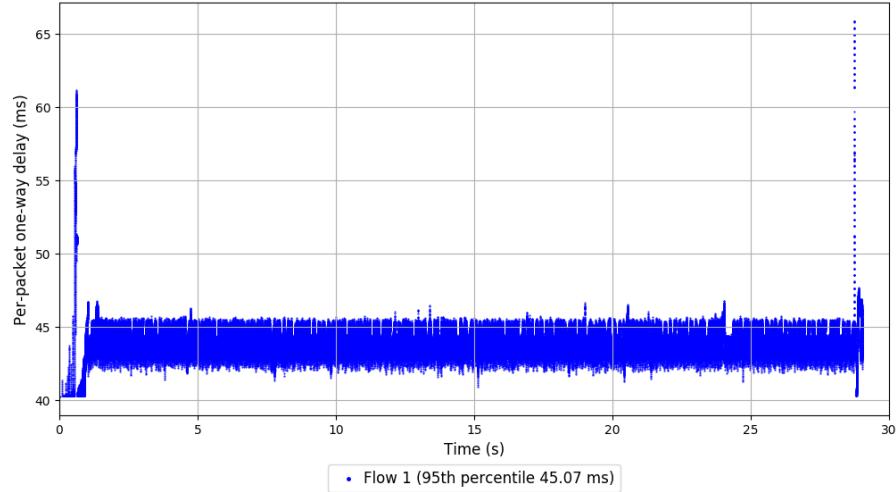
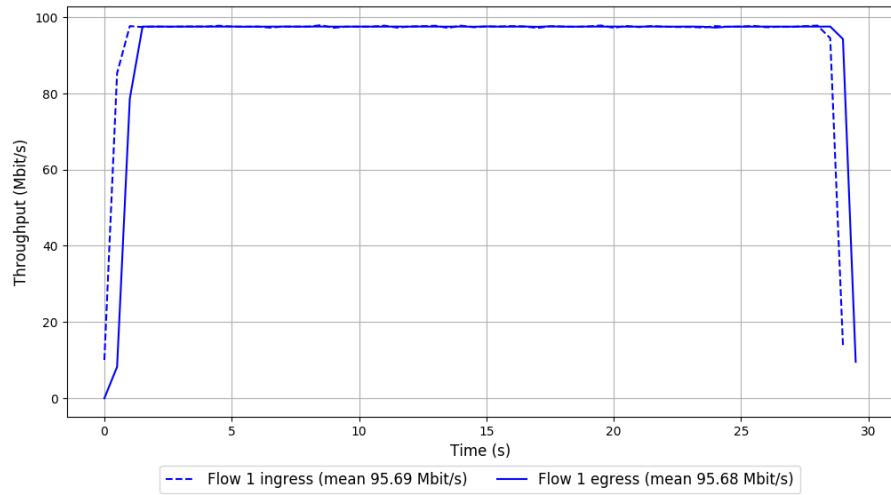


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 15:11:54
End at: 2019-06-27 15:12:24
Local clock offset: -3.149 ms
Remote clock offset: -2.286 ms

# Below is generated by plot.py at 2019-06-27 15:35:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 45.069 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 45.069 ms
Loss rate: 0.24%
```

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

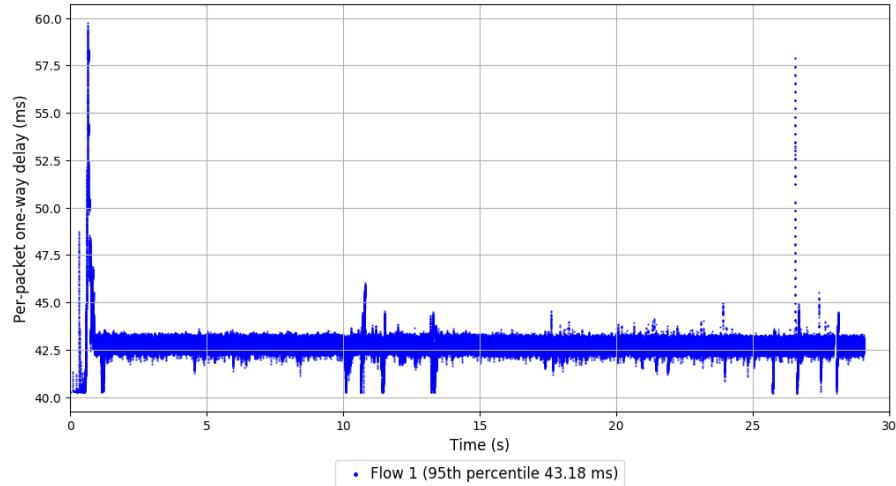
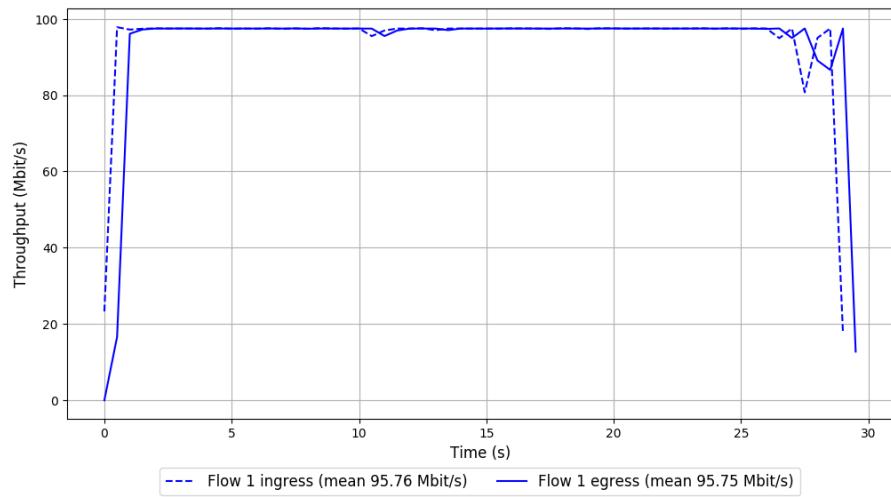


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 13:23:30
End at: 2019-06-27 13:24:00
Local clock offset: -1.436 ms
Remote clock offset: -2.899 ms

# Below is generated by plot.py at 2019-06-27 15:35:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 43.182 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 43.182 ms
Loss rate: 0.24%
```

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

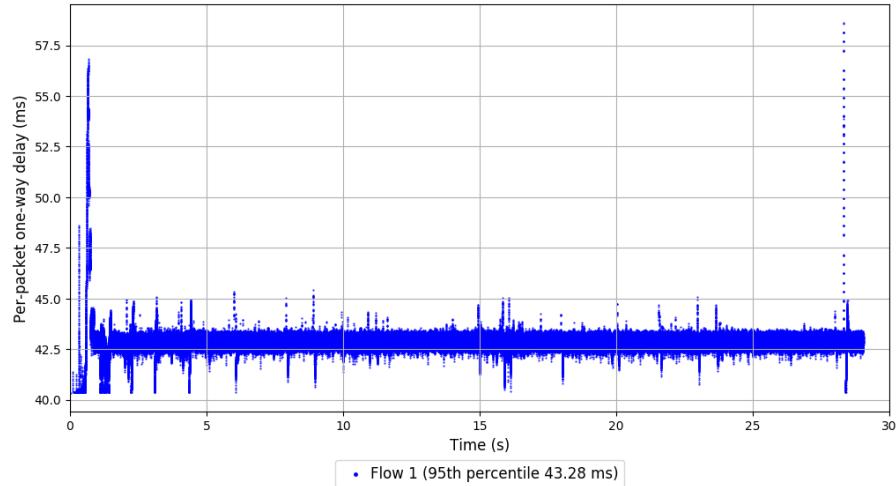
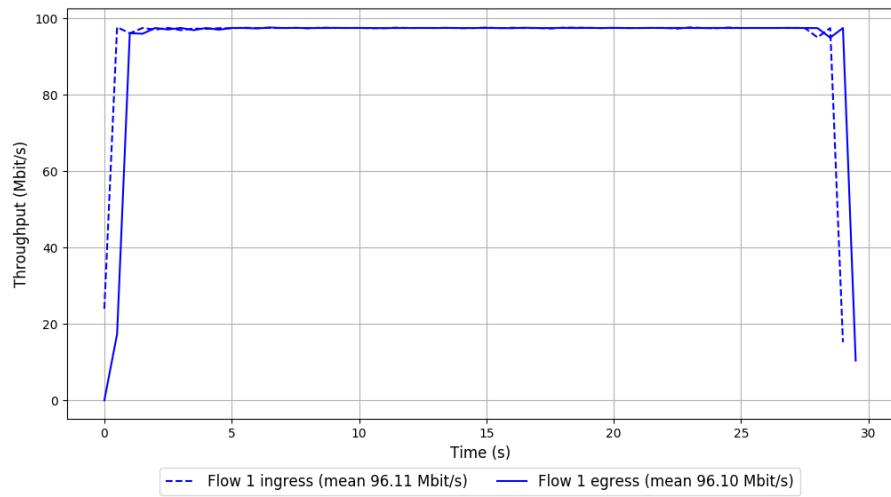


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 13:51:22
End at: 2019-06-27 13:51:52
Local clock offset: 0.771 ms
Remote clock offset: -1.74 ms

# Below is generated by plot.py at 2019-06-27 15:35:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 43.284 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 43.284 ms
Loss rate: 0.24%
```

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

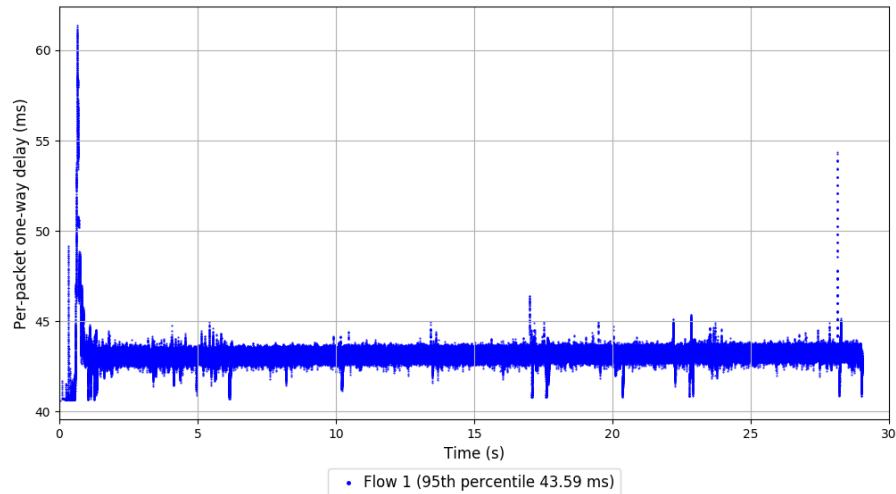
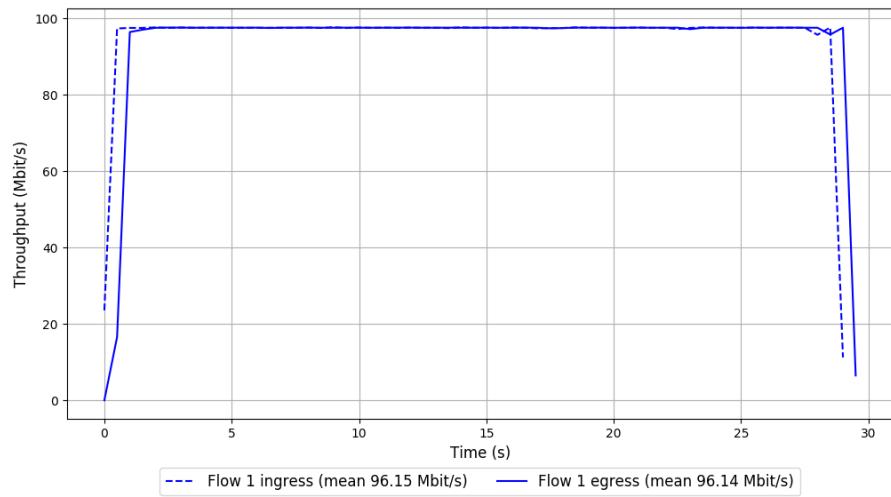


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 14:18:18
End at: 2019-06-27 14:18:48
Local clock offset: 0.735 ms
Remote clock offset: -2.295 ms

# Below is generated by plot.py at 2019-06-27 15:35:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.14 Mbit/s
95th percentile per-packet one-way delay: 43.595 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 96.14 Mbit/s
95th percentile per-packet one-way delay: 43.595 ms
Loss rate: 0.23%
```

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

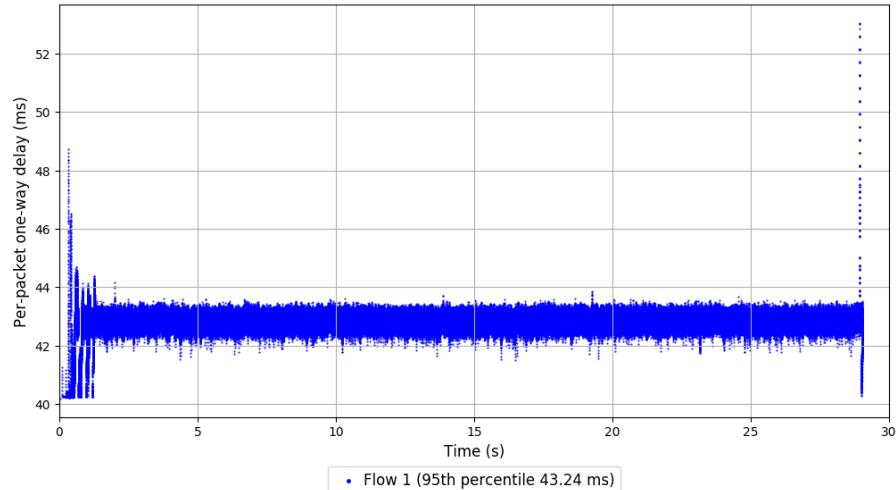
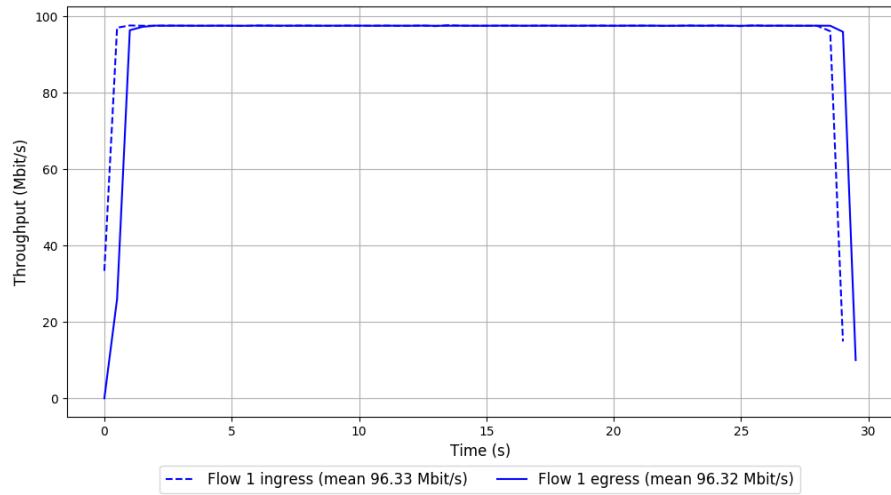


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 14:46:15
End at: 2019-06-27 14:46:45
Local clock offset: -3.858 ms
Remote clock offset: -2.223 ms

# Below is generated by plot.py at 2019-06-27 15:35:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 43.236 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 43.236 ms
Loss rate: 0.24%
```

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

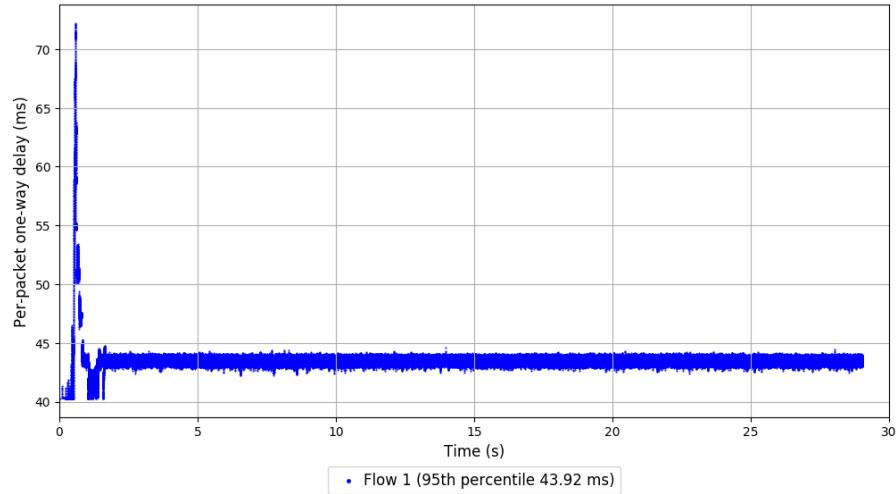
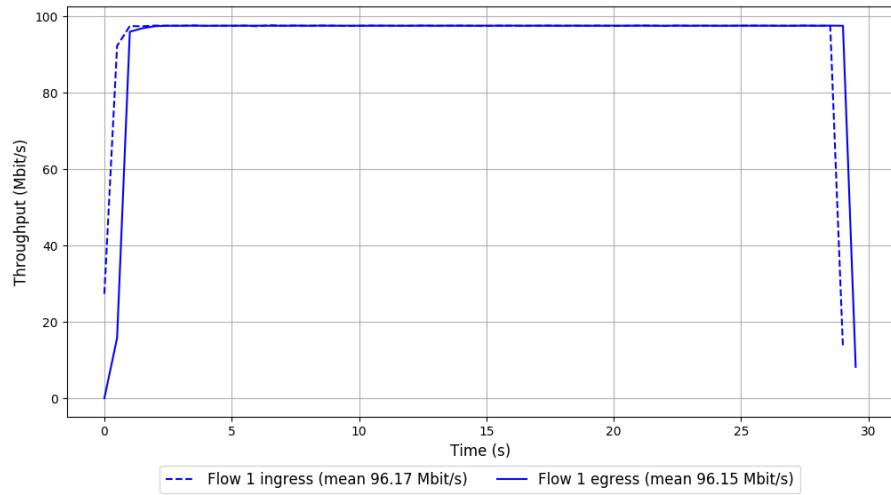


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 15:13:09
End at: 2019-06-27 15:13:39
Local clock offset: -3.143 ms
Remote clock offset: -2.319 ms

# Below is generated by plot.py at 2019-06-27 15:35:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 43.922 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 43.922 ms
Loss rate: 0.24%
```

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

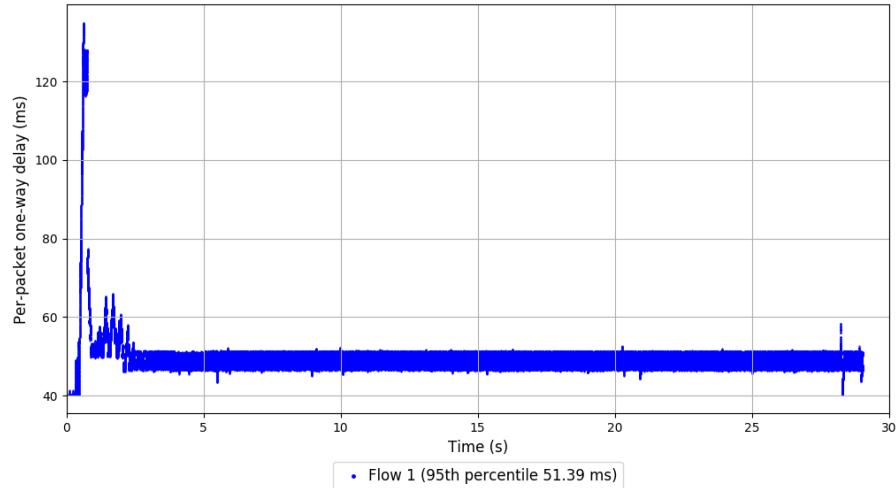
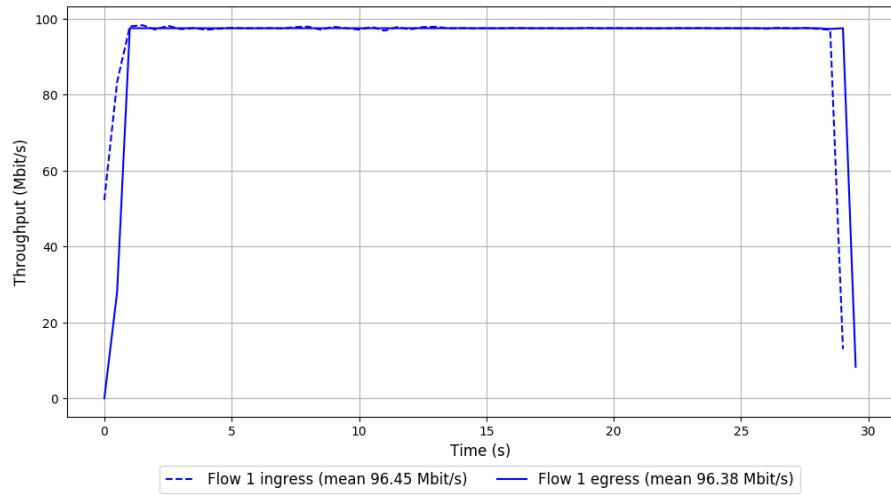


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 13:32:16
End at: 2019-06-27 13:32:46
Local clock offset: -0.091 ms
Remote clock offset: -2.488 ms

# Below is generated by plot.py at 2019-06-27 15:35:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 51.393 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 51.393 ms
Loss rate: 0.28%
```

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

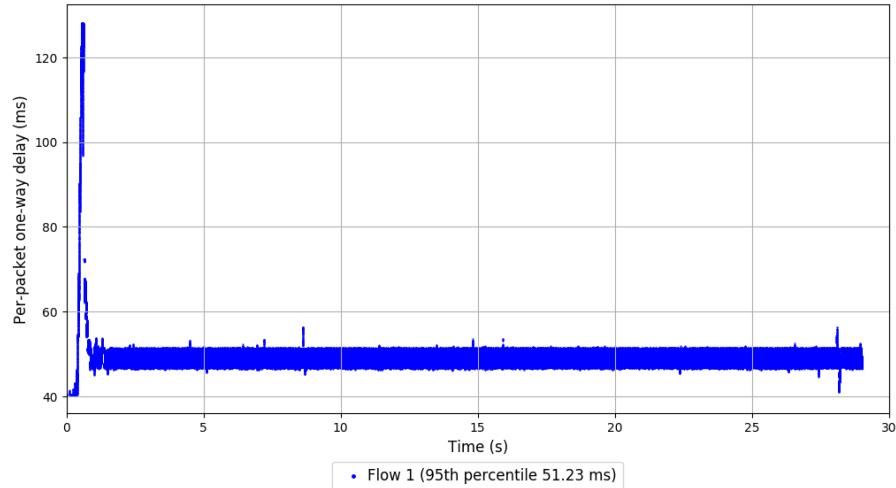
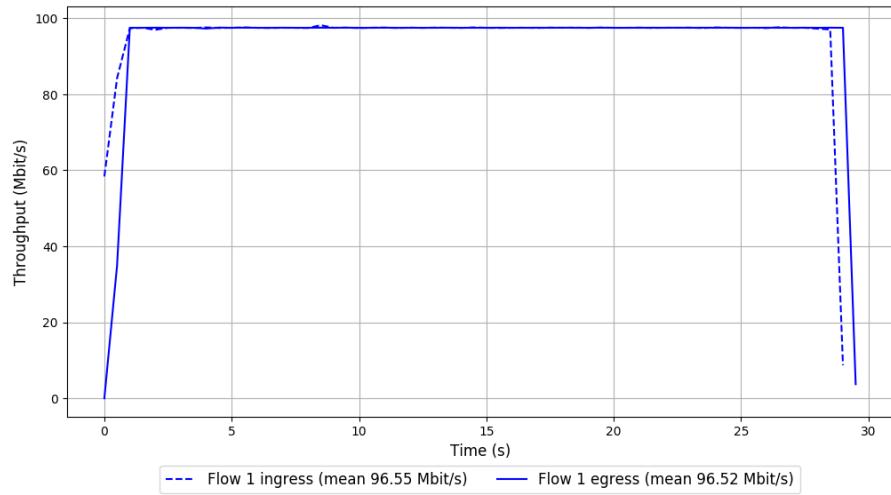


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 14:00:00
End at: 2019-06-27 14:00:30
Local clock offset: 0.572 ms
Remote clock offset: -2.033 ms

# Below is generated by plot.py at 2019-06-27 15:35:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 51.227 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 51.227 ms
Loss rate: 0.26%
```

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

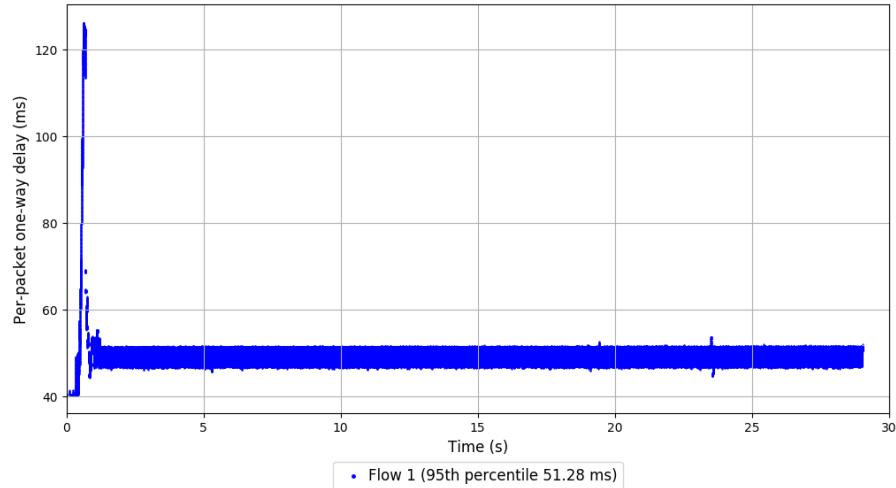
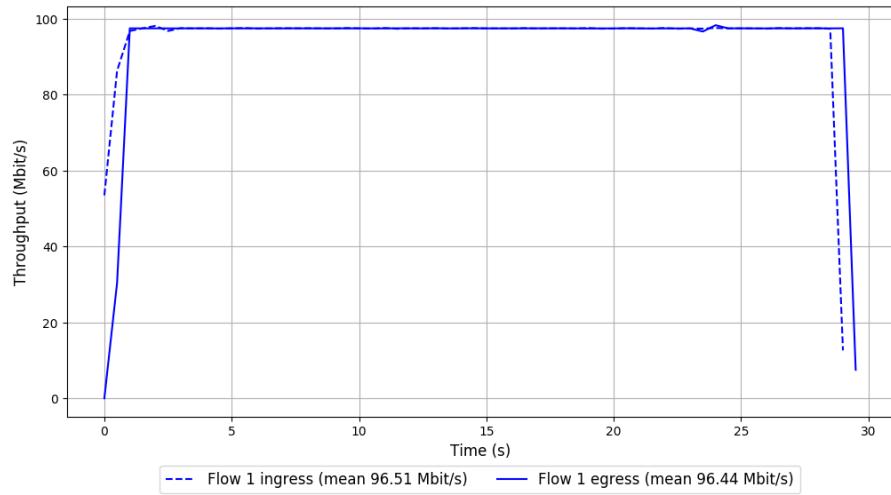


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 14:27:08
End at: 2019-06-27 14:27:38
Local clock offset: -1.986 ms
Remote clock offset: -2.174 ms

# Below is generated by plot.py at 2019-06-27 15:36:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 51.279 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 51.279 ms
Loss rate: 0.29%
```

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

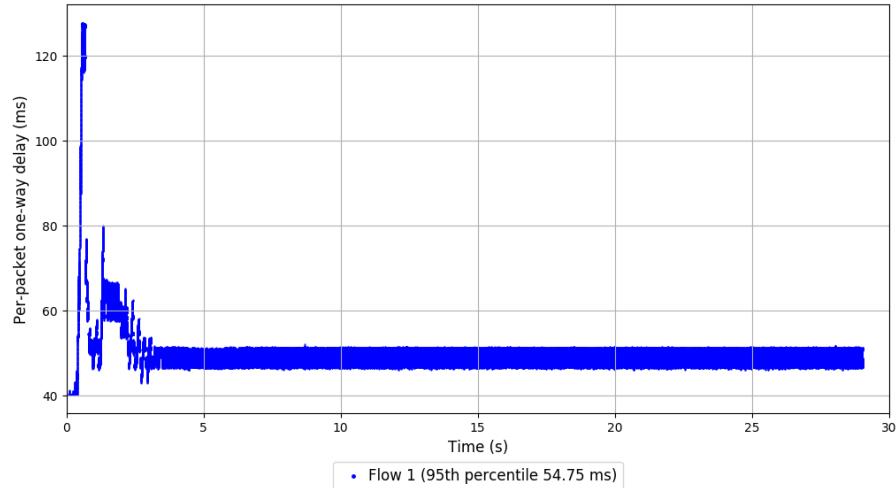
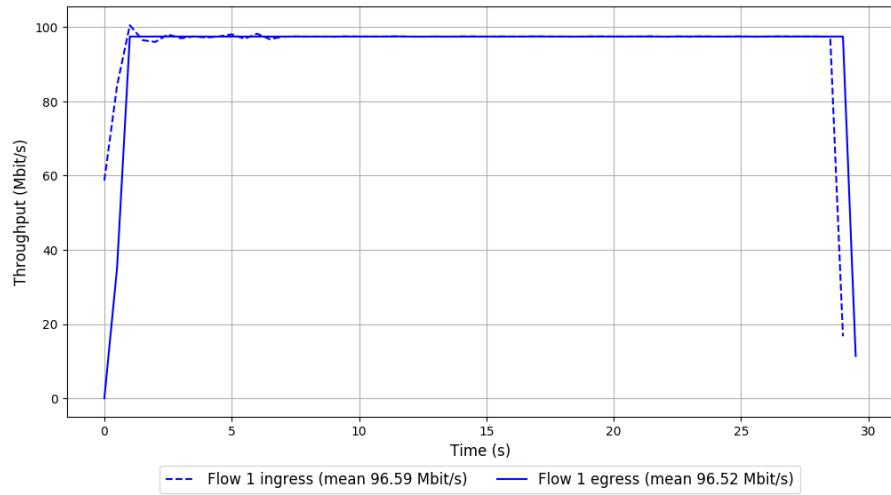


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 14:54:52
End at: 2019-06-27 14:55:22
Local clock offset: -3.376 ms
Remote clock offset: -2.301 ms

# Below is generated by plot.py at 2019-06-27 15:36:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 54.752 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 54.752 ms
Loss rate: 0.29%
```

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

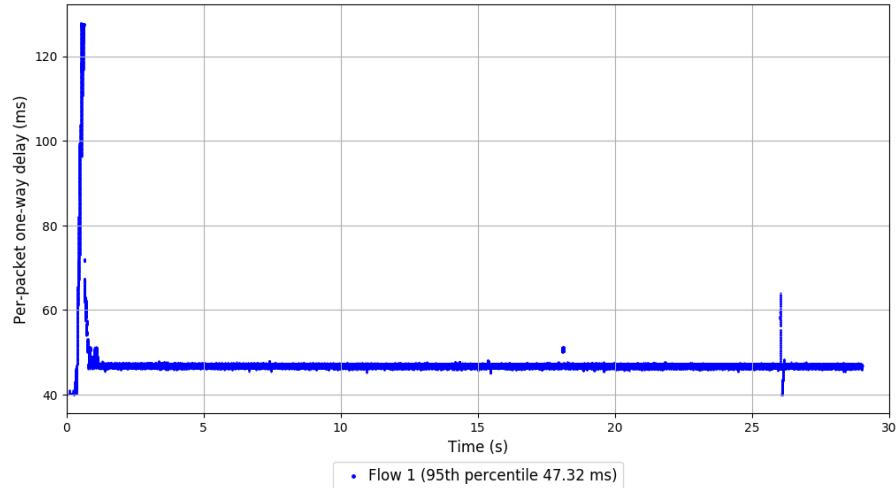
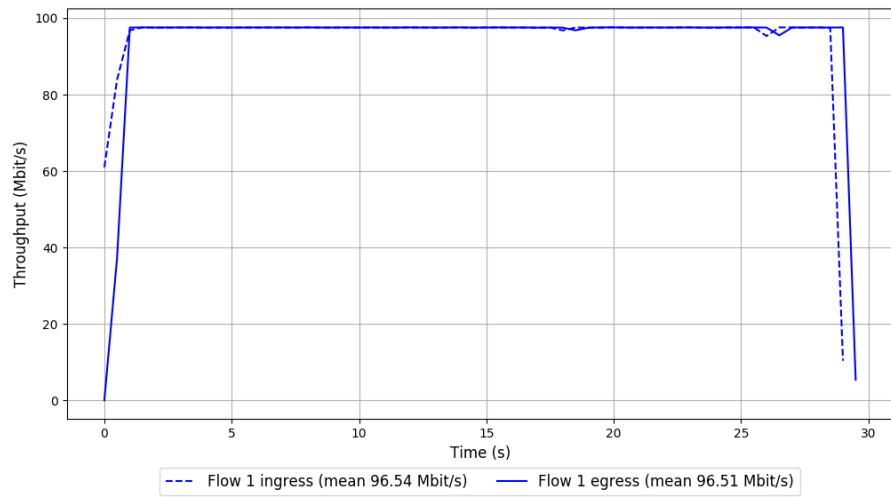


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 15:21:32
End at: 2019-06-27 15:22:02
Local clock offset: -2.1 ms
Remote clock offset: -2.393 ms

# Below is generated by plot.py at 2019-06-27 15:36:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 47.316 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 47.316 ms
Loss rate: 0.25%
```

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

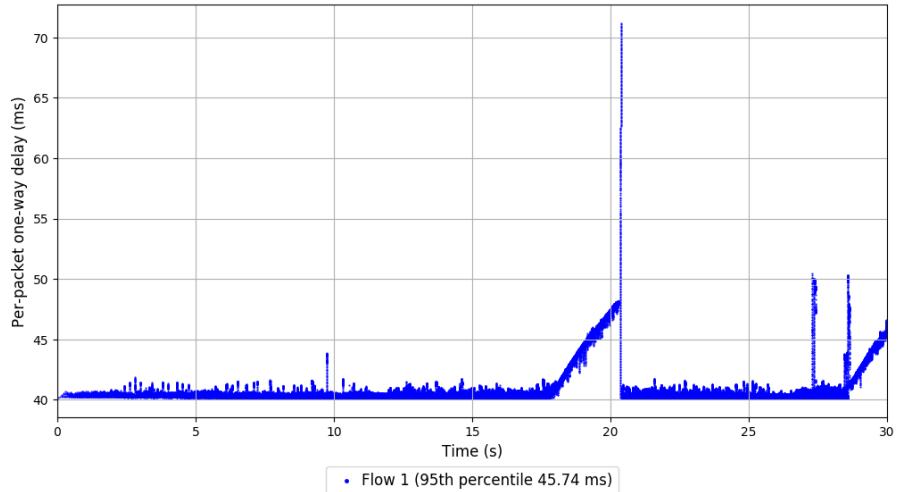
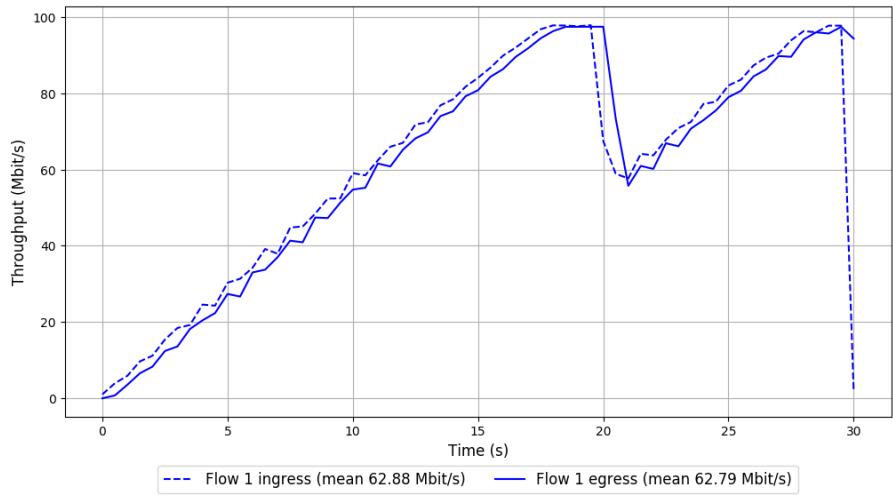


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-06-27 13:21:07
End at: 2019-06-27 13:21:37
Local clock offset: -2.116 ms
Remote clock offset: -2.977 ms

# Below is generated by plot.py at 2019-06-27 15:36:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.79 Mbit/s
95th percentile per-packet one-way delay: 45.745 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 62.79 Mbit/s
95th percentile per-packet one-way delay: 45.745 ms
Loss rate: 0.37%
```

## Run 1: Report of LEDBAT — Data Link

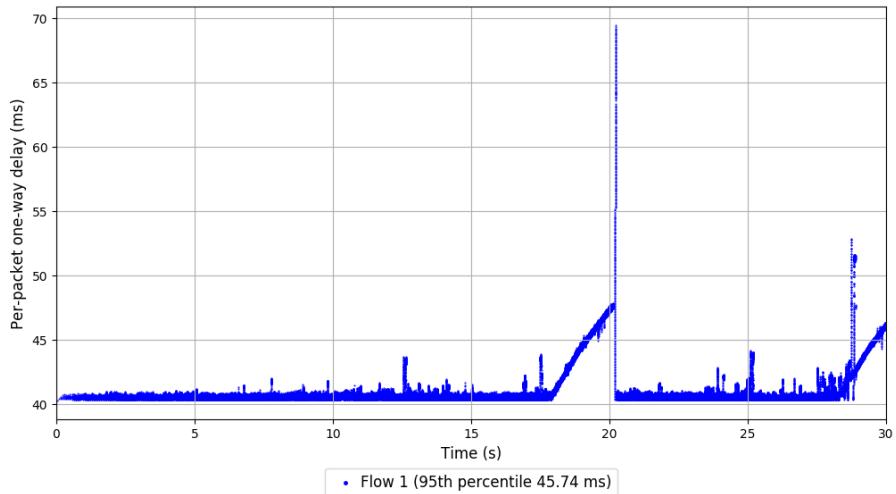
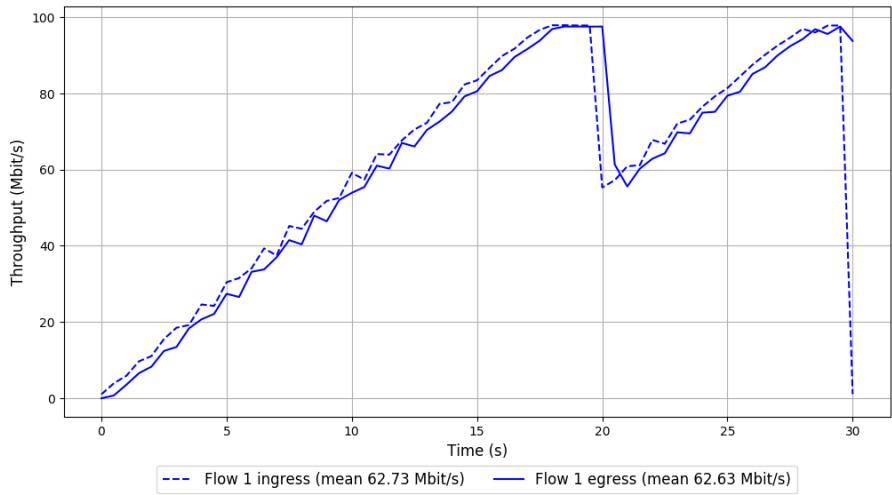


Run 2: Statistics of LEDBAT

```
Start at: 2019-06-27 13:48:54
End at: 2019-06-27 13:49:24
Local clock offset: 0.909 ms
Remote clock offset: -1.661 ms

# Below is generated by plot.py at 2019-06-27 15:36:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.63 Mbit/s
95th percentile per-packet one-way delay: 45.737 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 62.63 Mbit/s
95th percentile per-packet one-way delay: 45.737 ms
Loss rate: 0.37%
```

## Run 2: Report of LEDBAT — Data Link

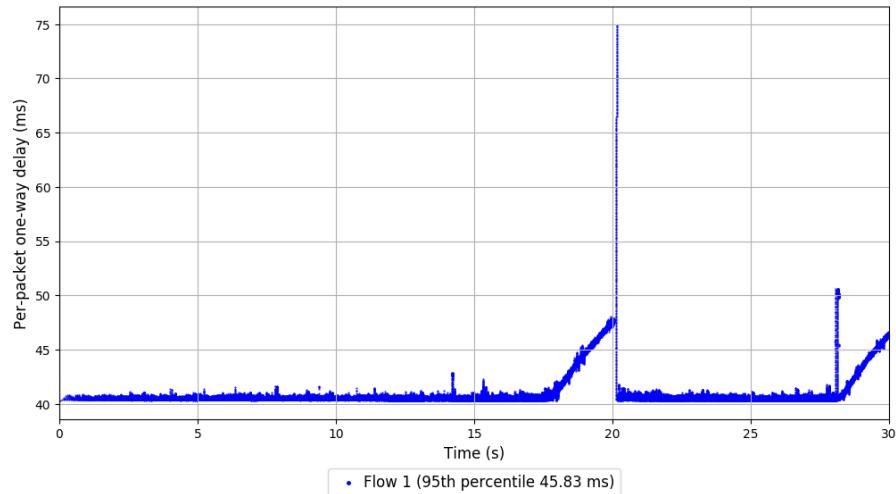
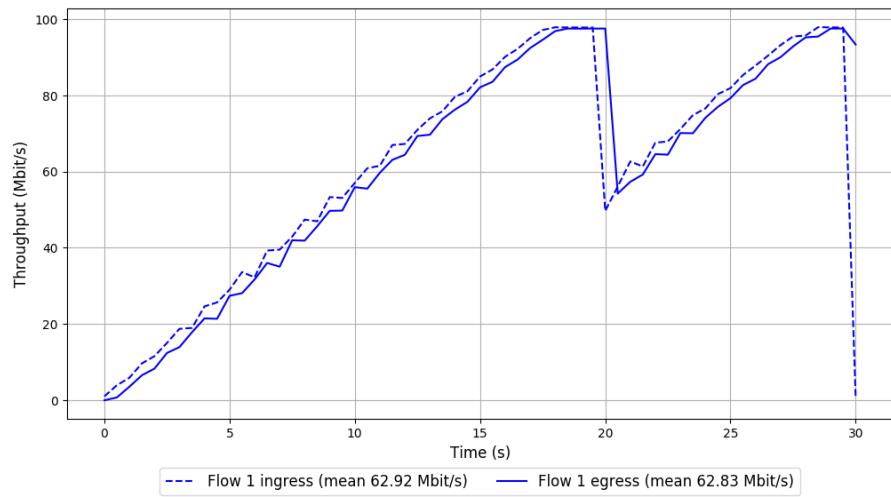


Run 3: Statistics of LEDBAT

```
Start at: 2019-06-27 14:15:50
End at: 2019-06-27 14:16:20
Local clock offset: 0.734 ms
Remote clock offset: -2.149 ms

# Below is generated by plot.py at 2019-06-27 15:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.83 Mbit/s
95th percentile per-packet one-way delay: 45.828 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 62.83 Mbit/s
95th percentile per-packet one-way delay: 45.828 ms
Loss rate: 0.37%
```

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

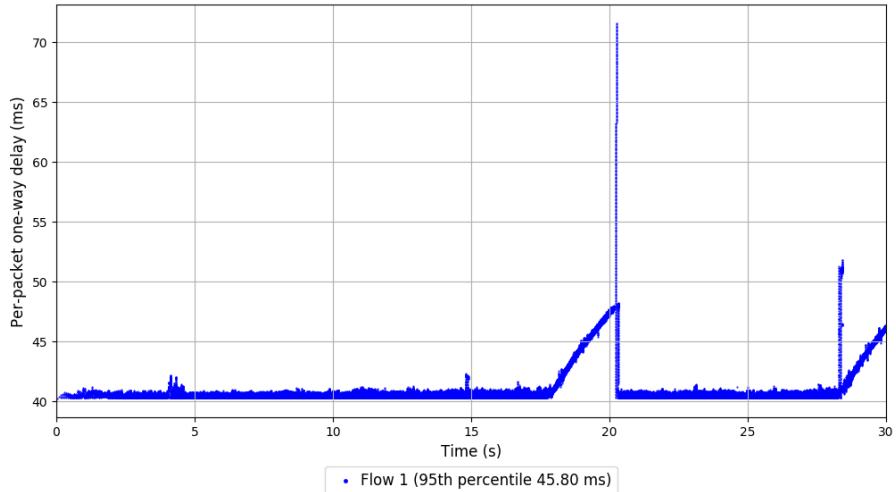
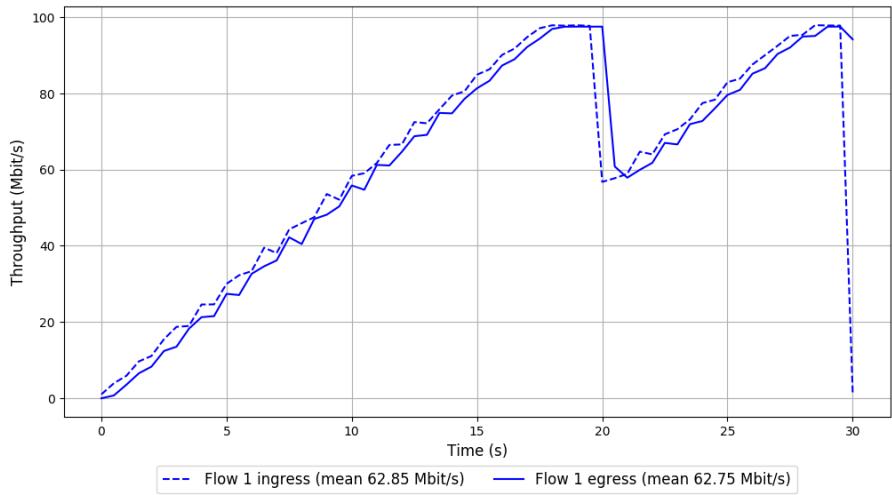


Run 4: Statistics of LEDBAT

```
Start at: 2019-06-27 14:43:43
End at: 2019-06-27 14:44:13
Local clock offset: -3.737 ms
Remote clock offset: -2.234 ms

# Below is generated by plot.py at 2019-06-27 15:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.75 Mbit/s
95th percentile per-packet one-way delay: 45.795 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 62.75 Mbit/s
95th percentile per-packet one-way delay: 45.795 ms
Loss rate: 0.37%
```

## Run 4: Report of LEDBAT — Data Link

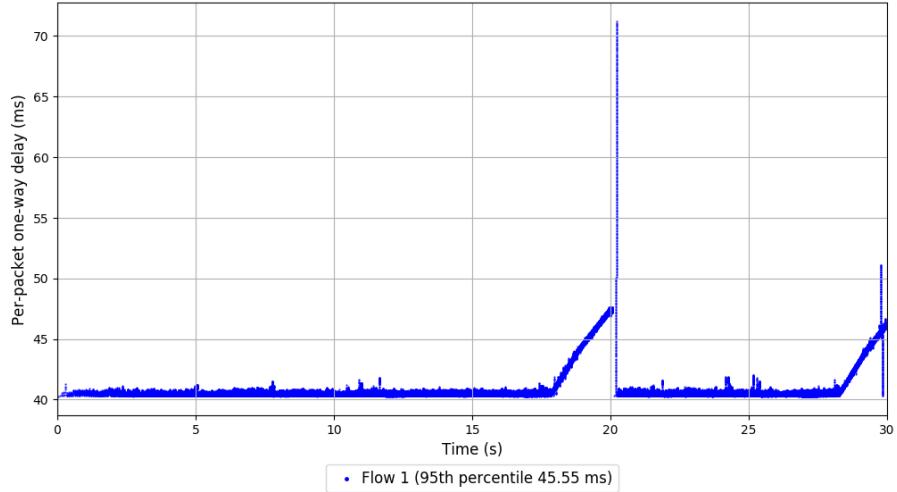
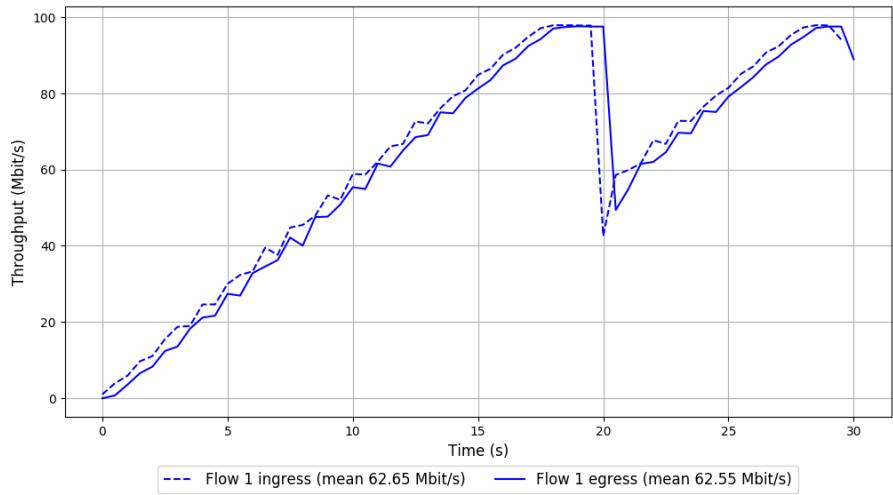


Run 5: Statistics of LEDBAT

```
Start at: 2019-06-27 15:10:42
End at: 2019-06-27 15:11:12
Local clock offset: -3.133 ms
Remote clock offset: -2.261 ms

# Below is generated by plot.py at 2019-06-27 15:36:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.55 Mbit/s
95th percentile per-packet one-way delay: 45.547 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 62.55 Mbit/s
95th percentile per-packet one-way delay: 45.547 ms
Loss rate: 0.37%
```

## Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 13:29:31  
End at: 2019-06-27 13:30:01  
Local clock offset: -0.409 ms  
Remote clock offset: -2.574 ms

Run 1: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 13:57:31  
End at: 2019-06-27 13:58:01  
Local clock offset: 0.617 ms  
Remote clock offset: -1.931 ms

Run 2: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 14:24:37  
End at: 2019-06-27 14:25:07  
Local clock offset: -1.486 ms  
Remote clock offset: -2.159 ms

Run 3: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 14:52:21

End at: 2019-06-27 14:52:51

Local clock offset: -3.528 ms

Remote clock offset: -2.292 ms

Run 4: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 15:19:12

End at: 2019-06-27 15:19:42

Local clock offset: -2.779 ms

Remote clock offset: -2.434 ms

Run 5: Report of Muses\_DecisionTree — Data Link

Figure is missing

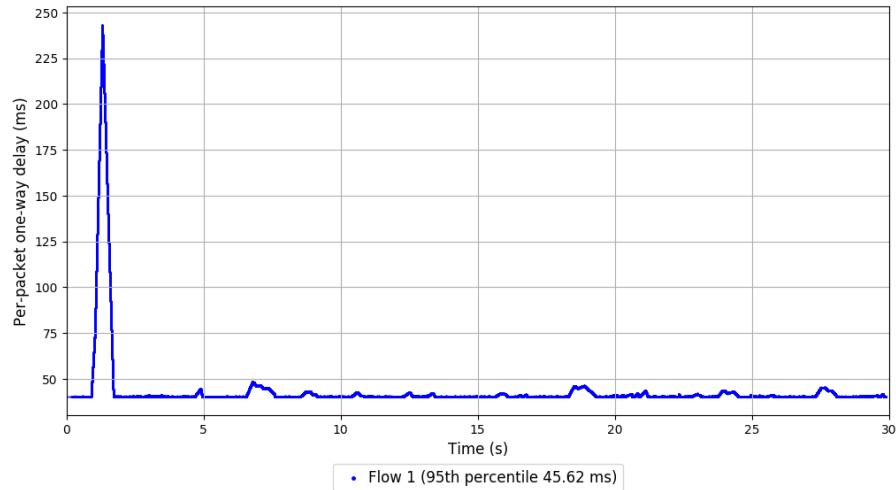
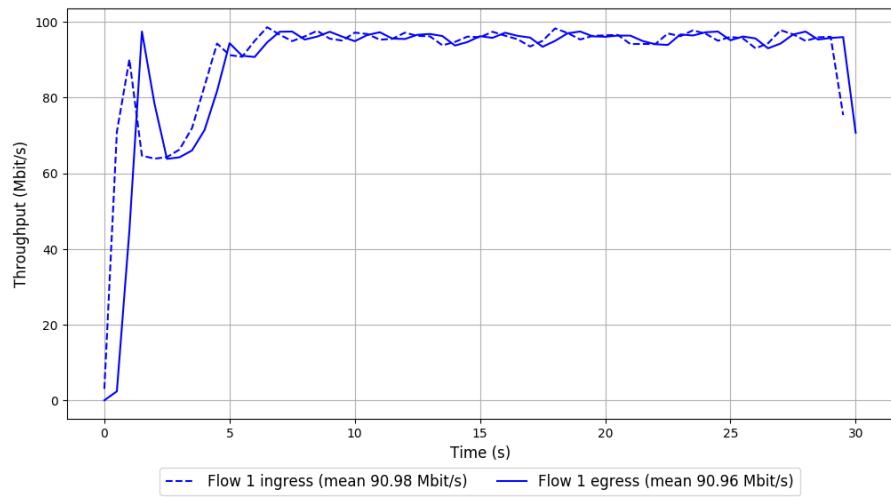
Figure is missing

Run 1: Statistics of PCC-Allegro

```
Start at: 2019-06-27 13:16:32
End at: 2019-06-27 13:17:02
Local clock offset: -3.065 ms
Remote clock offset: -3.17 ms

# Below is generated by plot.py at 2019-06-27 15:37:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.96 Mbit/s
95th percentile per-packet one-way delay: 45.620 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 90.96 Mbit/s
95th percentile per-packet one-way delay: 45.620 ms
Loss rate: 0.24%
```

Run 1: Report of PCC-Allegro — Data Link

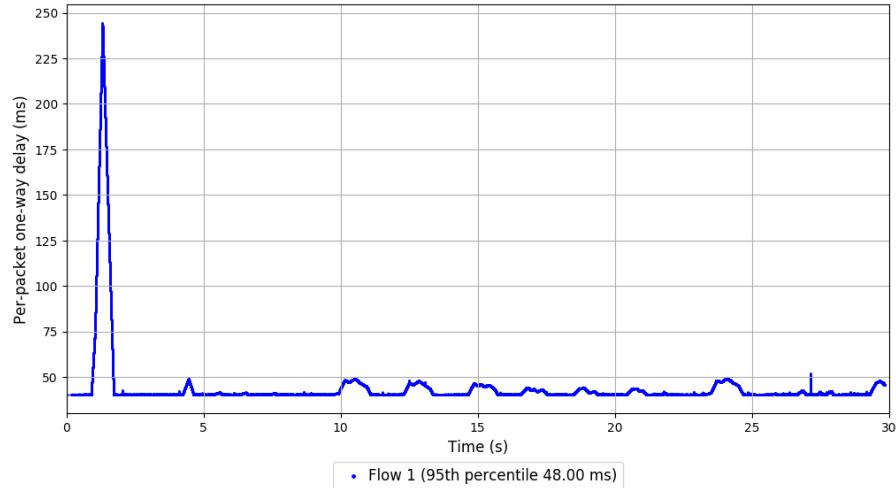
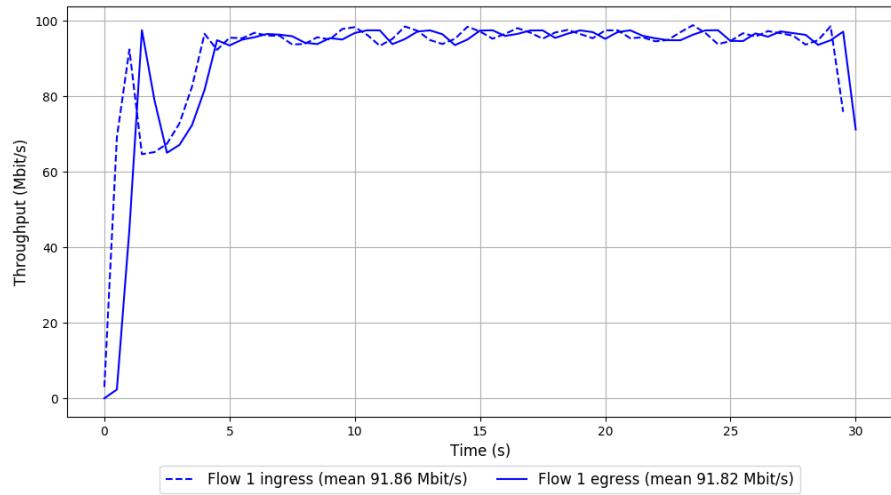


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-06-27 13:44:11
End at: 2019-06-27 13:44:41
Local clock offset: 0.775 ms
Remote clock offset: -1.804 ms

# Below is generated by plot.py at 2019-06-27 15:37:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.82 Mbit/s
95th percentile per-packet one-way delay: 47.996 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 91.82 Mbit/s
95th percentile per-packet one-way delay: 47.996 ms
Loss rate: 0.27%
```

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

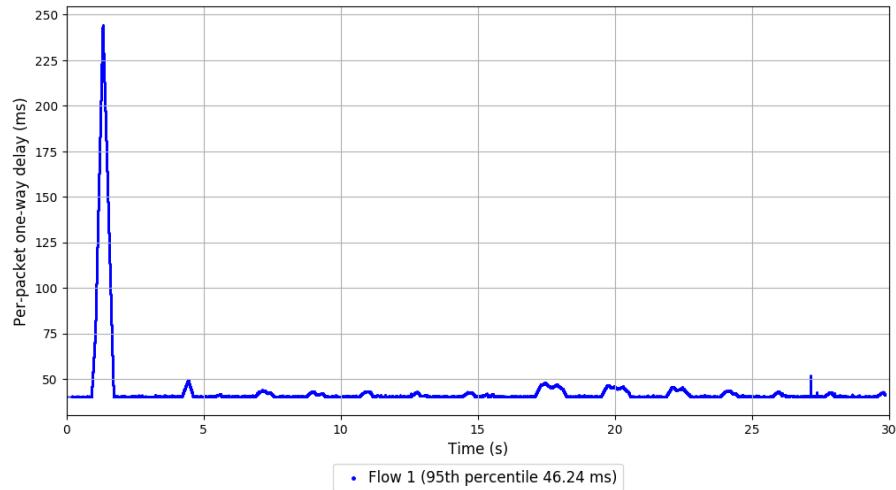
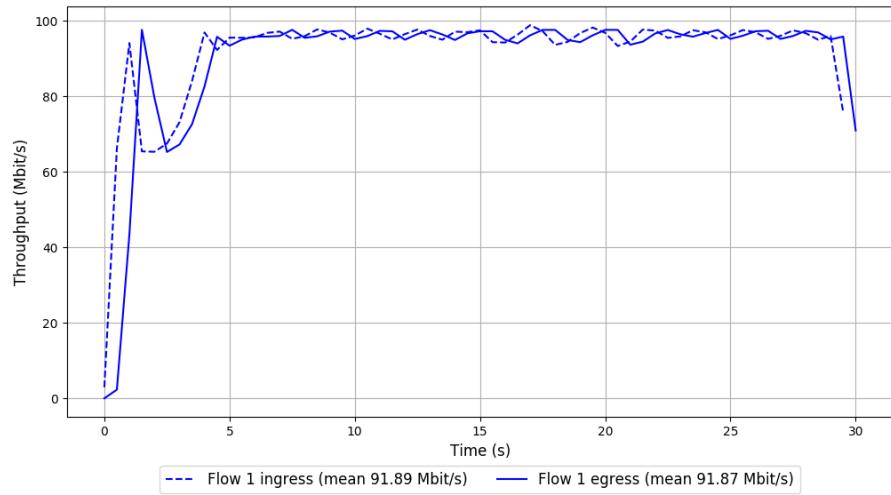


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-06-27 14:11:09
End at: 2019-06-27 14:11:39
Local clock offset: 0.682 ms
Remote clock offset: -2.13 ms

# Below is generated by plot.py at 2019-06-27 15:37:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.87 Mbit/s
95th percentile per-packet one-way delay: 46.244 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 91.87 Mbit/s
95th percentile per-packet one-way delay: 46.244 ms
Loss rate: 0.24%
```

Run 3: Report of PCC-Allegro — Data Link

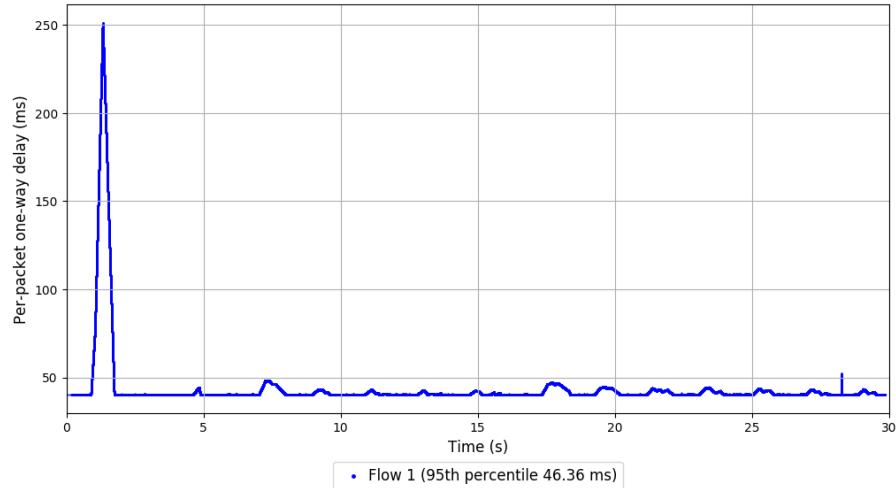
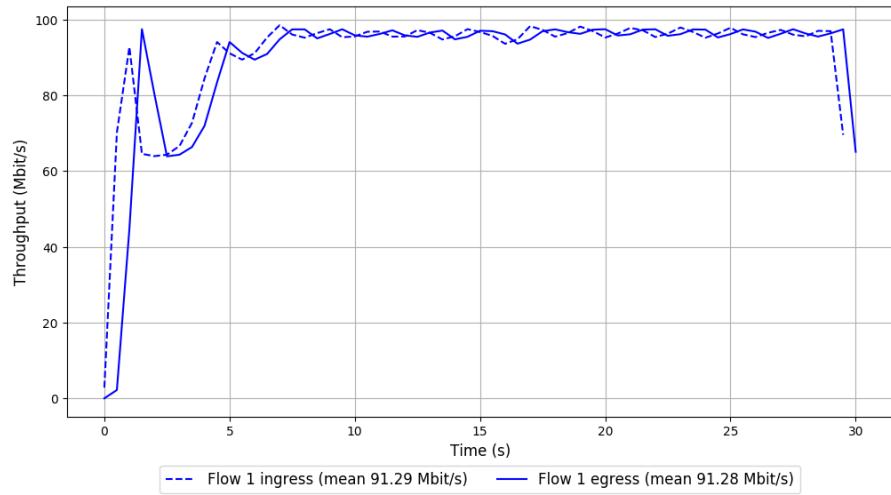


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-06-27 14:39:02
End at: 2019-06-27 14:39:32
Local clock offset: -3.424 ms
Remote clock offset: -2.196 ms

# Below is generated by plot.py at 2019-06-27 15:37:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 46.362 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 46.362 ms
Loss rate: 0.23%
```

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

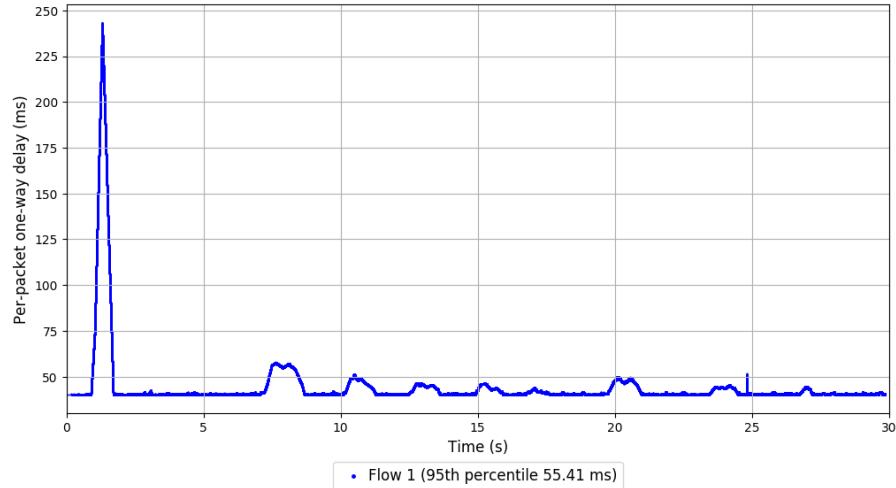
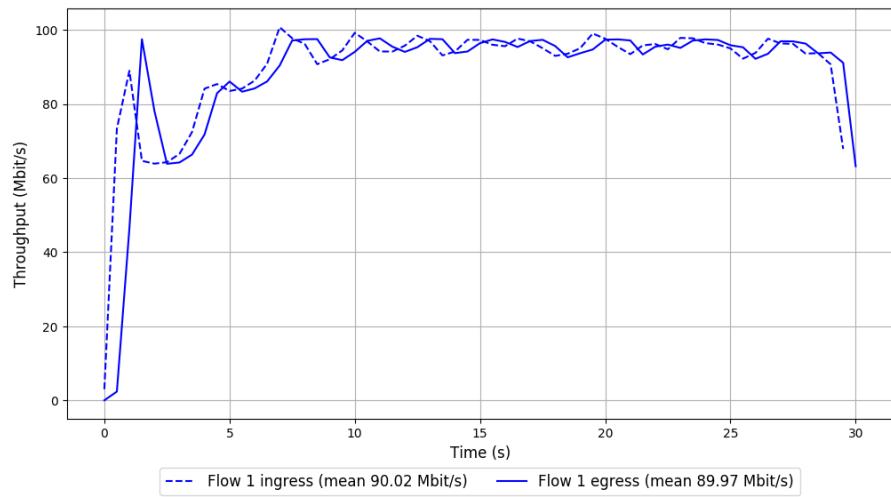


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-06-27 15:06:05
End at: 2019-06-27 15:06:35
Local clock offset: -3.107 ms
Remote clock offset: -2.284 ms

# Below is generated by plot.py at 2019-06-27 15:37:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.97 Mbit/s
95th percentile per-packet one-way delay: 55.406 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 89.97 Mbit/s
95th percentile per-packet one-way delay: 55.406 ms
Loss rate: 0.27%
```

Run 5: Report of PCC-Allegro — Data Link

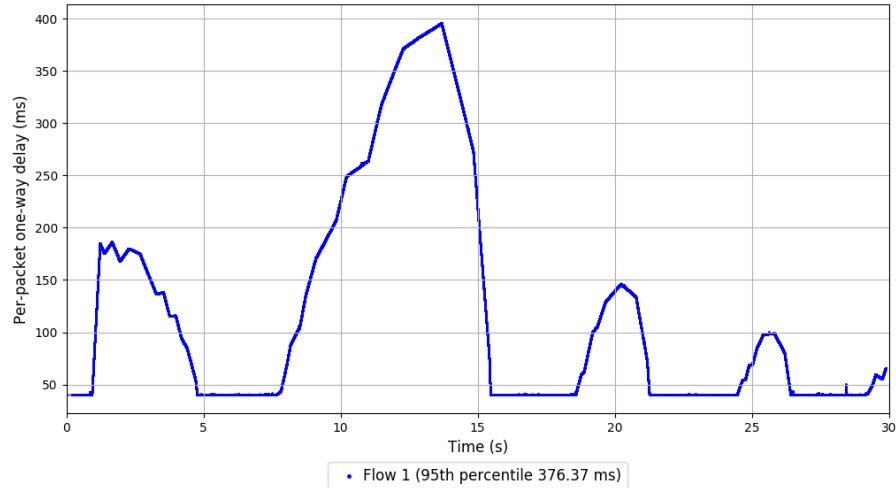
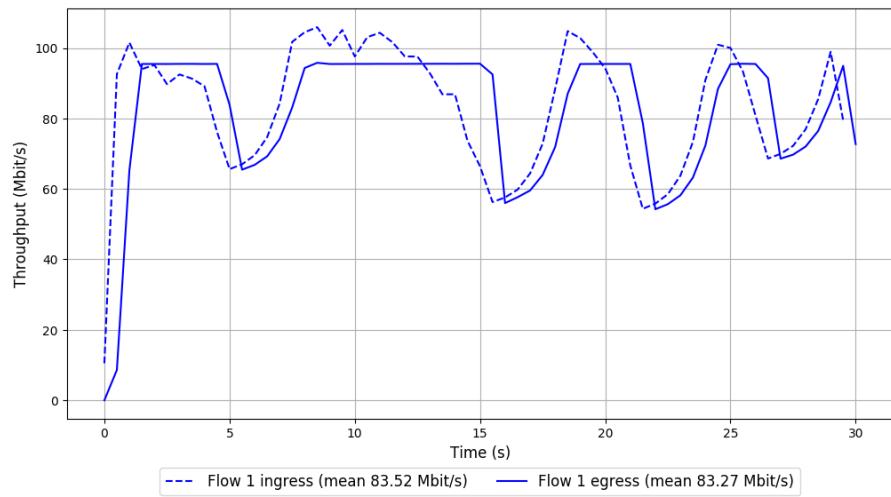


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-06-27 13:10:35
End at: 2019-06-27 13:11:05
Local clock offset: -3.005 ms
Remote clock offset: -3.313 ms

# Below is generated by plot.py at 2019-06-27 15:38:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.27 Mbit/s
95th percentile per-packet one-way delay: 376.373 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 83.27 Mbit/s
95th percentile per-packet one-way delay: 376.373 ms
Loss rate: 0.52%
```

Run 1: Report of PCC-Expr — Data Link

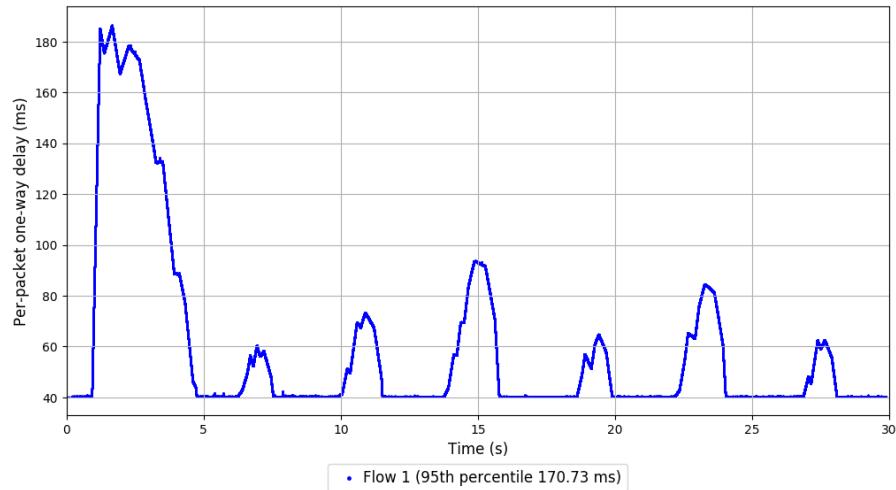
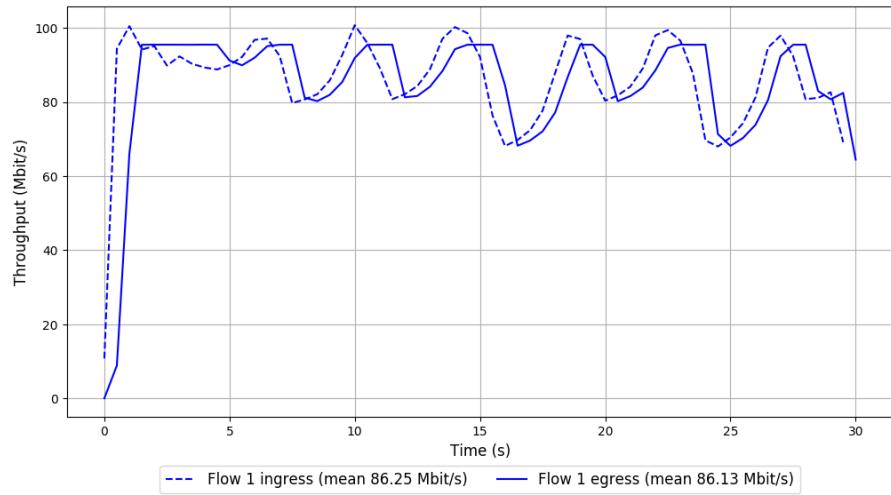


Run 2: Statistics of PCC-Expr

```
Start at: 2019-06-27 13:37:32
End at: 2019-06-27 13:38:02
Local clock offset: 0.373 ms
Remote clock offset: -2.216 ms

# Below is generated by plot.py at 2019-06-27 15:38:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.13 Mbit/s
95th percentile per-packet one-way delay: 170.730 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 86.13 Mbit/s
95th percentile per-packet one-way delay: 170.730 ms
Loss rate: 0.36%
```

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

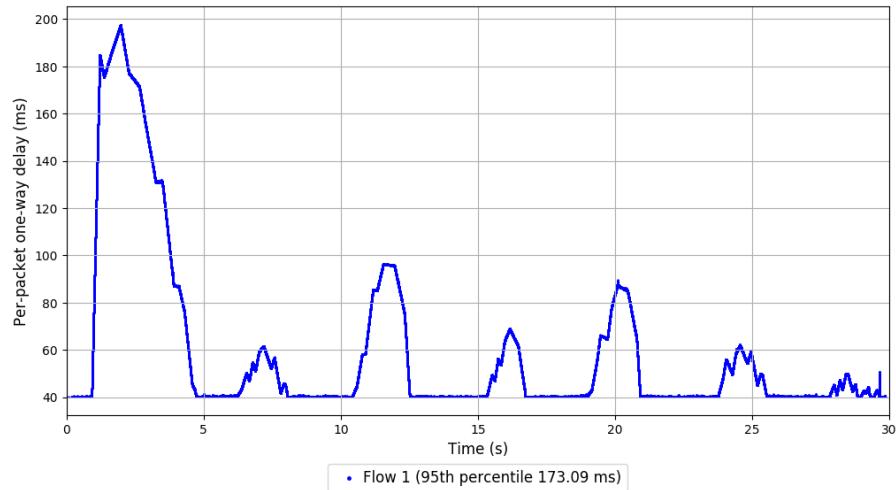
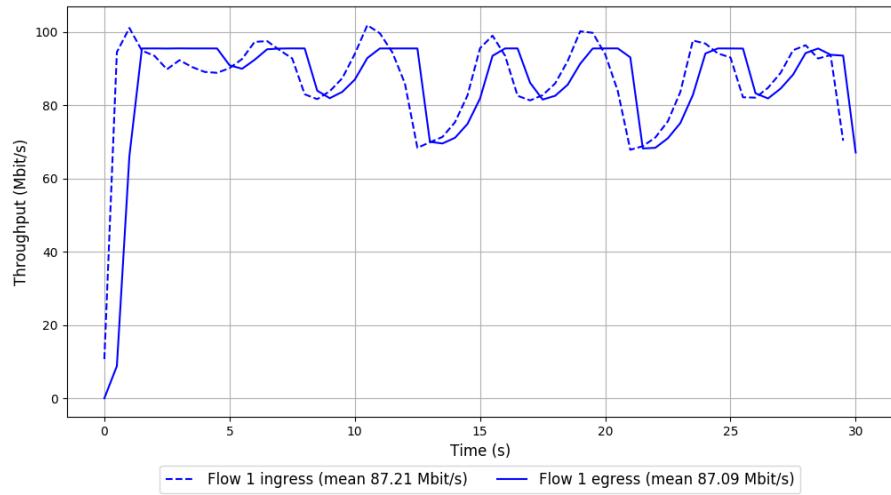


Run 3: Statistics of PCC-Expr

```
Start at: 2019-06-27 14:05:02
End at: 2019-06-27 14:05:32
Local clock offset: 0.581 ms
Remote clock offset: -2.061 ms

# Below is generated by plot.py at 2019-06-27 15:38:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.09 Mbit/s
95th percentile per-packet one-way delay: 173.090 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 87.09 Mbit/s
95th percentile per-packet one-way delay: 173.090 ms
Loss rate: 0.35%
```

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

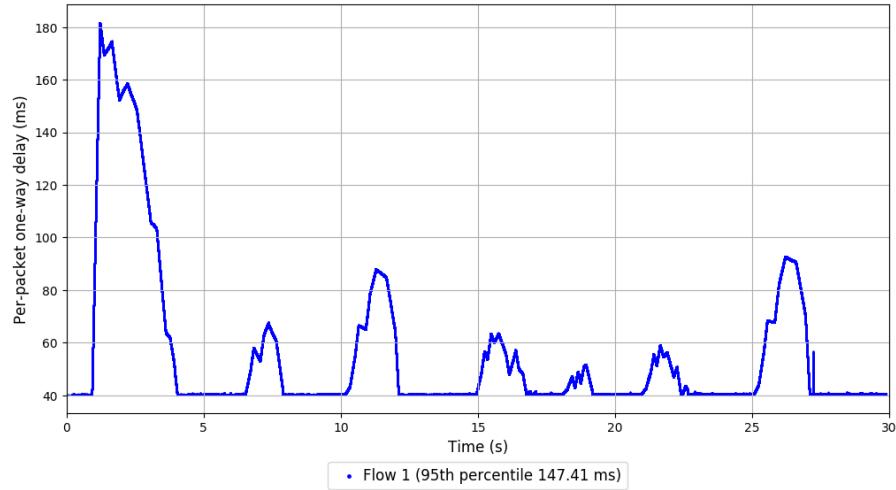
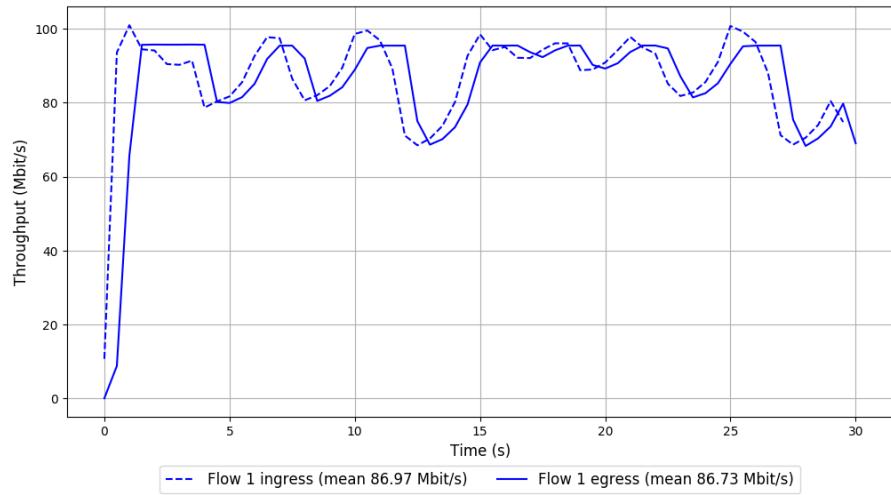


Run 4: Statistics of PCC-Expr

```
Start at: 2019-06-27 14:32:13
End at: 2019-06-27 14:32:43
Local clock offset: -2.803 ms
Remote clock offset: -2.242 ms

# Below is generated by plot.py at 2019-06-27 15:39:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.73 Mbit/s
95th percentile per-packet one-way delay: 147.408 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 86.73 Mbit/s
95th percentile per-packet one-way delay: 147.408 ms
Loss rate: 0.49%
```

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

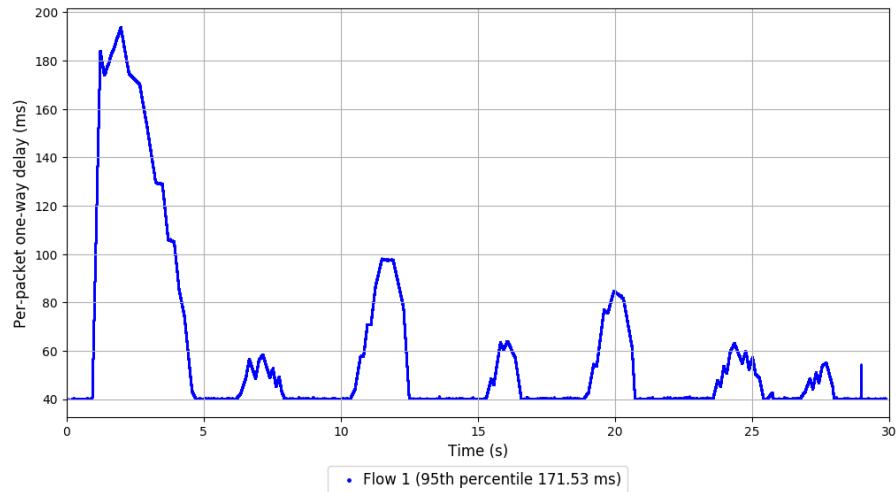
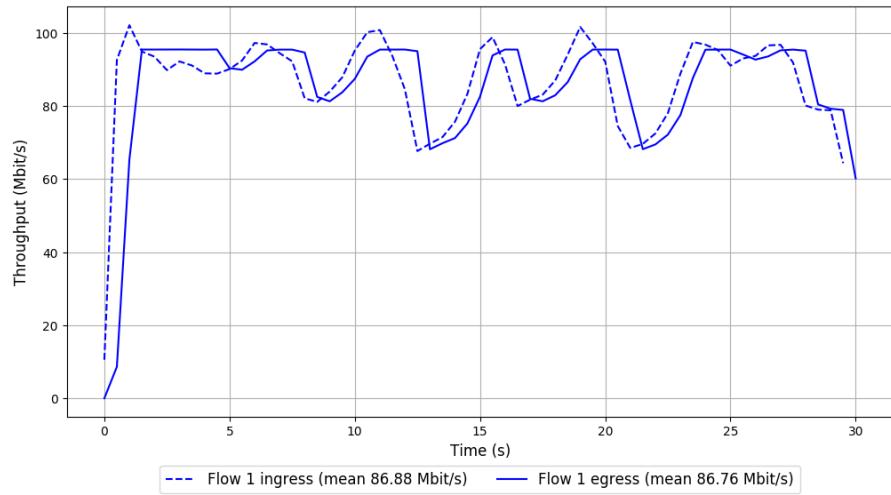


Run 5: Statistics of PCC-Expr

```
Start at: 2019-06-27 14:59:51
End at: 2019-06-27 15:00:21
Local clock offset: -3.188 ms
Remote clock offset: -2.272 ms

# Below is generated by plot.py at 2019-06-27 15:39:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.76 Mbit/s
95th percentile per-packet one-way delay: 171.535 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 86.76 Mbit/s
95th percentile per-packet one-way delay: 171.535 ms
Loss rate: 0.35%
```

Run 5: Report of PCC-Expr — Data Link

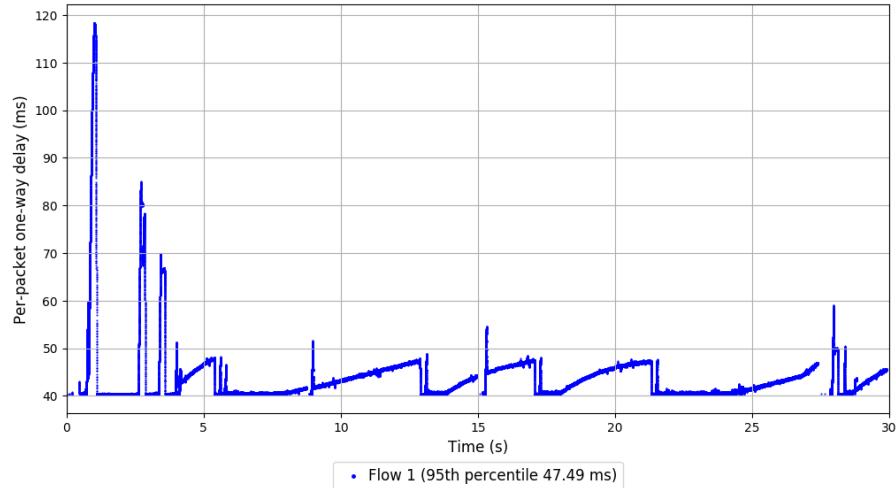
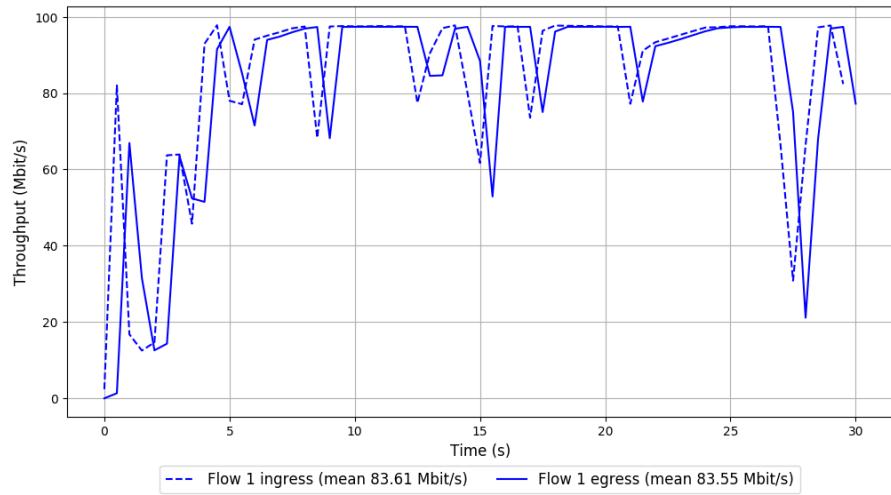


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-06-27 13:28:20
End at: 2019-06-27 13:28:50
Local clock offset: -0.546 ms
Remote clock offset: -2.681 ms

# Below is generated by plot.py at 2019-06-27 15:39:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.55 Mbit/s
95th percentile per-packet one-way delay: 47.492 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 83.55 Mbit/s
95th percentile per-packet one-way delay: 47.492 ms
Loss rate: 0.29%
```

Run 1: Report of QUIC Cubic — Data Link

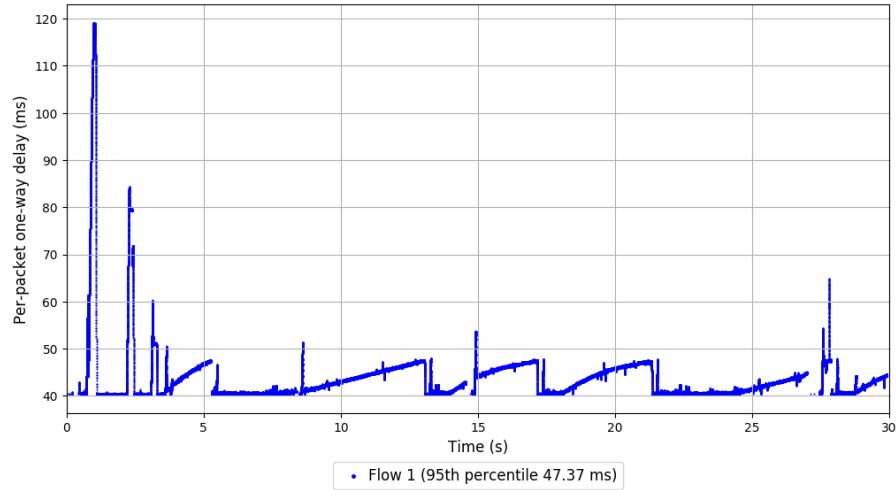
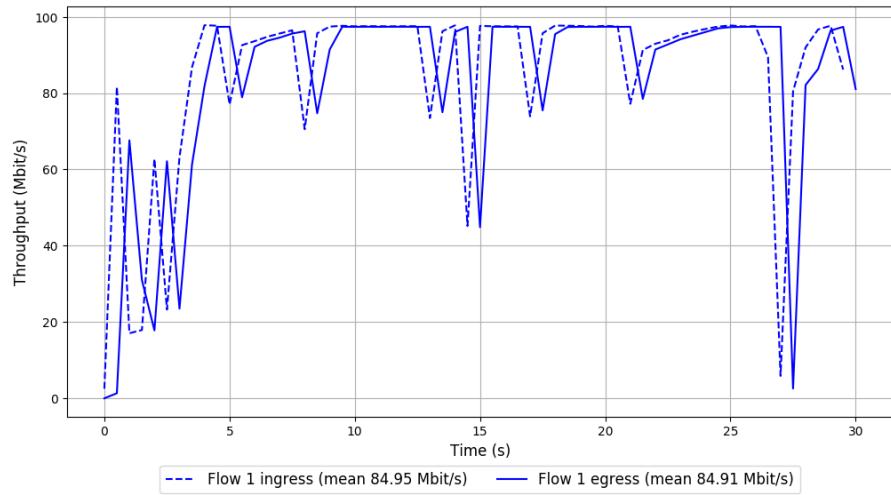


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-06-27 13:56:16
End at: 2019-06-27 13:56:46
Local clock offset: 0.633 ms
Remote clock offset: -1.893 ms

# Below is generated by plot.py at 2019-06-27 15:39:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 47.372 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 47.372 ms
Loss rate: 0.27%
```

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

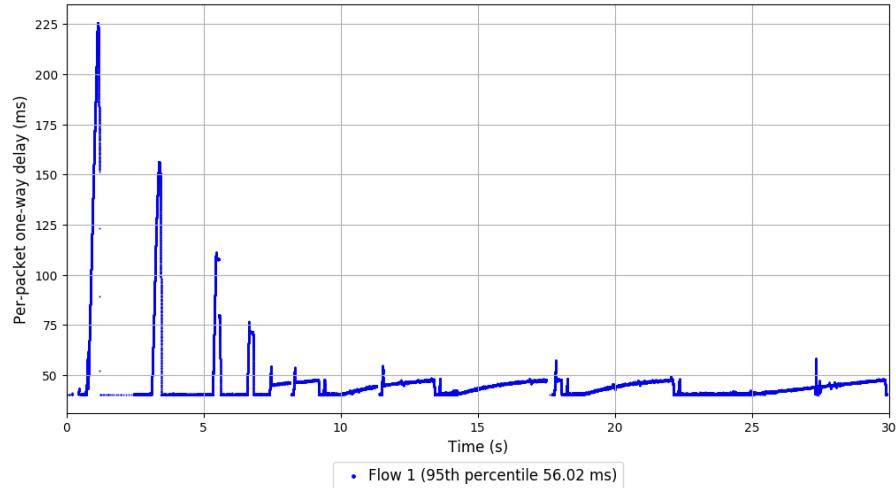
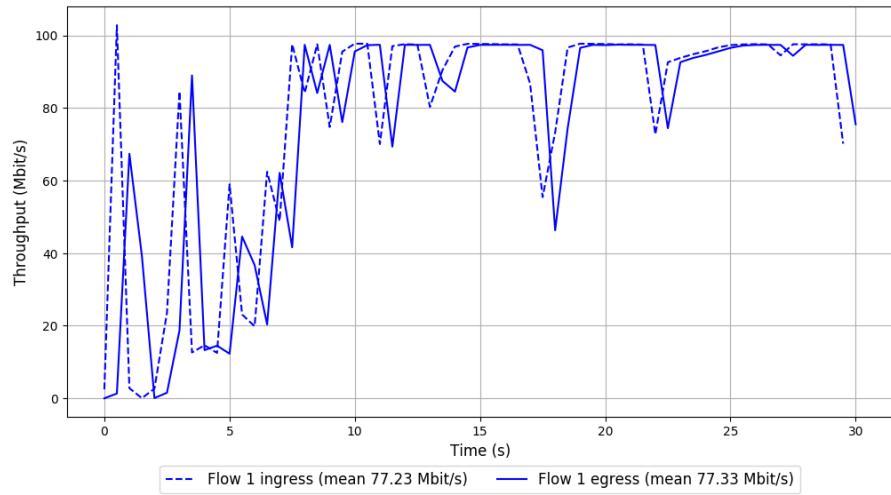


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-06-27 14:23:24
End at: 2019-06-27 14:23:54
Local clock offset: -1.089 ms
Remote clock offset: -2.13 ms

# Below is generated by plot.py at 2019-06-27 15:39:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.33 Mbit/s
95th percentile per-packet one-way delay: 56.021 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 77.33 Mbit/s
95th percentile per-packet one-way delay: 56.021 ms
Loss rate: 0.09%
```

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

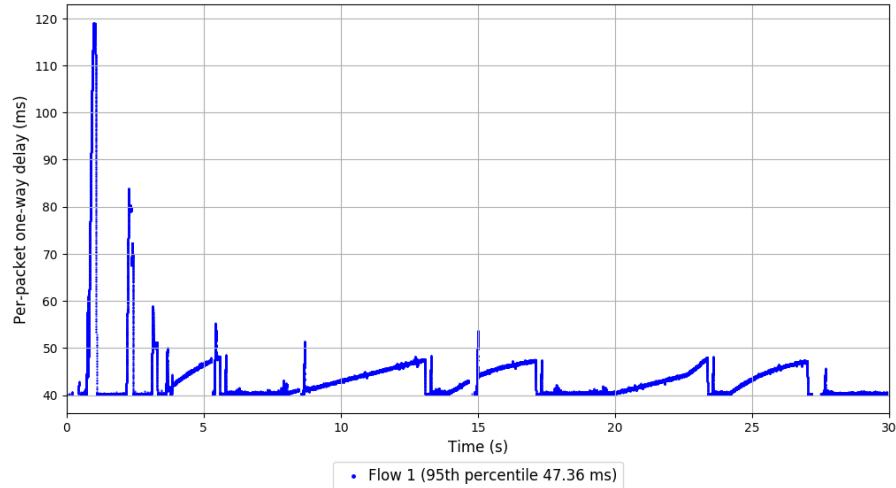
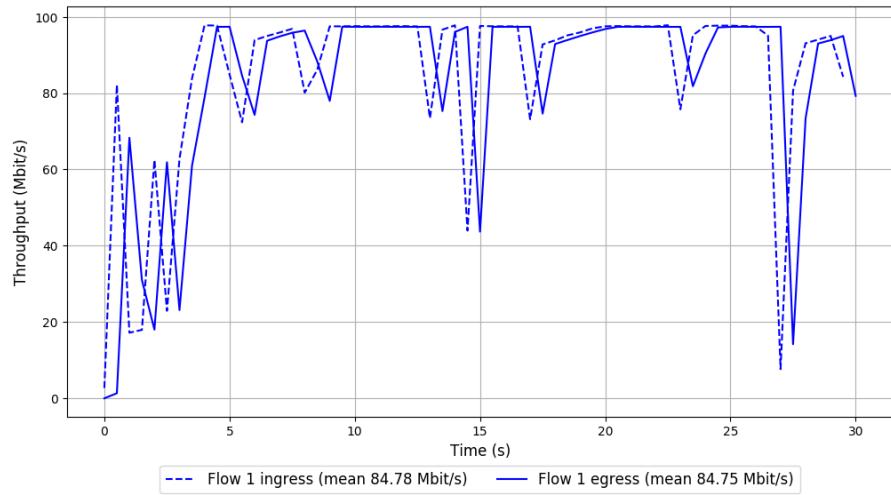


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-06-27 14:51:05
End at: 2019-06-27 14:51:35
Local clock offset: -3.664 ms
Remote clock offset: -2.257 ms

# Below is generated by plot.py at 2019-06-27 15:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.75 Mbit/s
95th percentile per-packet one-way delay: 47.356 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 84.75 Mbit/s
95th percentile per-packet one-way delay: 47.356 ms
Loss rate: 0.26%
```

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

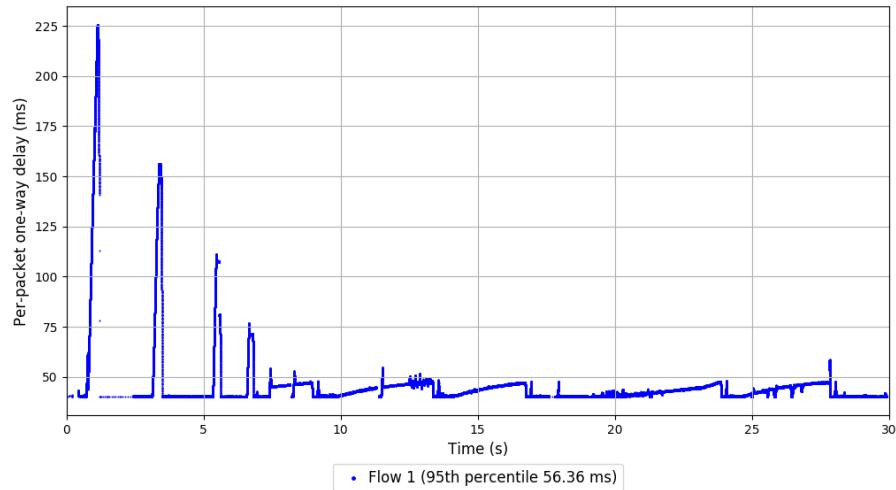
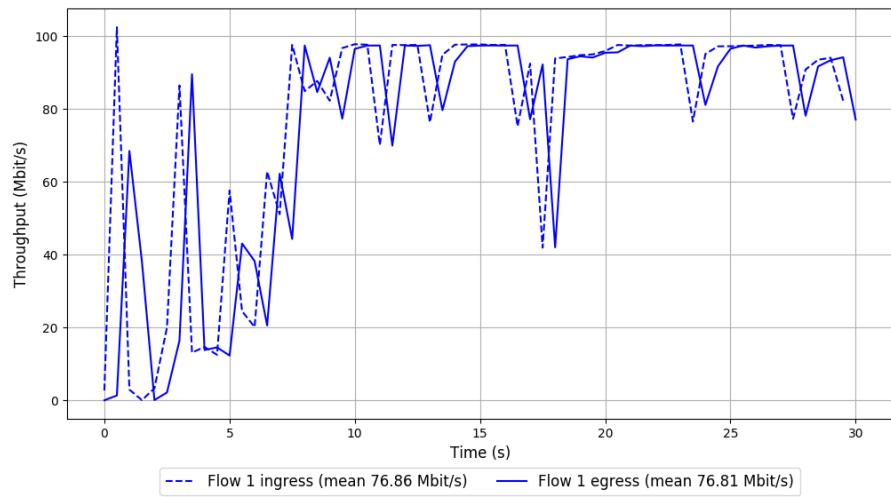


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-06-27 15:18:01
End at: 2019-06-27 15:18:31
Local clock offset: -3.167 ms
Remote clock offset: -2.402 ms

# Below is generated by plot.py at 2019-06-27 15:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.81 Mbit/s
95th percentile per-packet one-way delay: 56.363 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 76.81 Mbit/s
95th percentile per-packet one-way delay: 56.363 ms
Loss rate: 0.29%
```

Run 5: Report of QUIC Cubic — Data Link

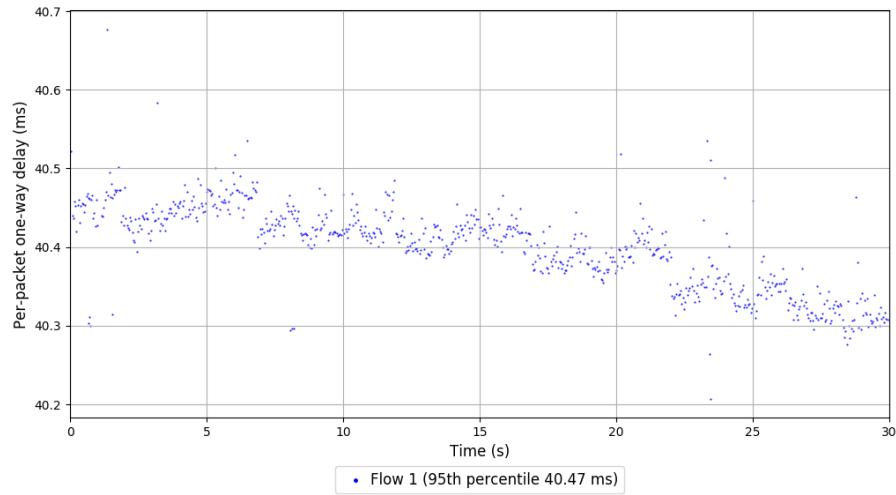
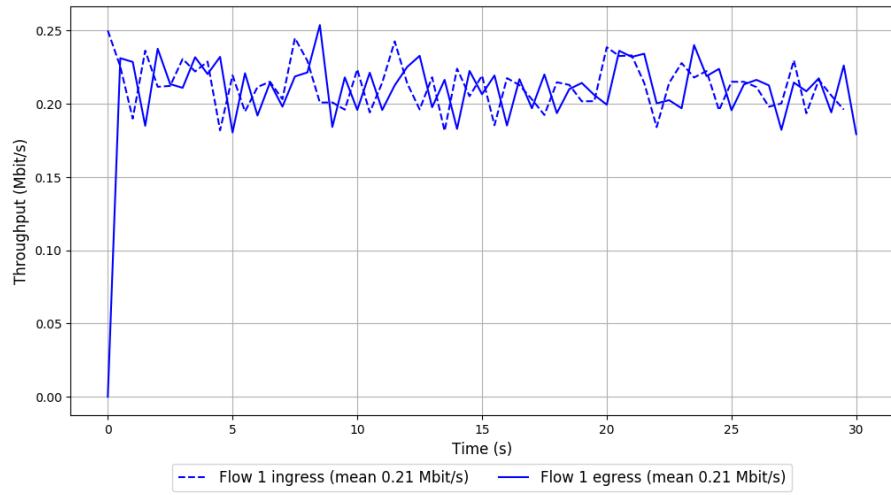


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-06-27 13:17:42
End at: 2019-06-27 13:18:12
Local clock offset: -3.065 ms
Remote clock offset: -3.109 ms

# Below is generated by plot.py at 2019-06-27 15:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.470 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.470 ms
Loss rate: 0.26%
```

Run 1: Report of SCReAM — Data Link

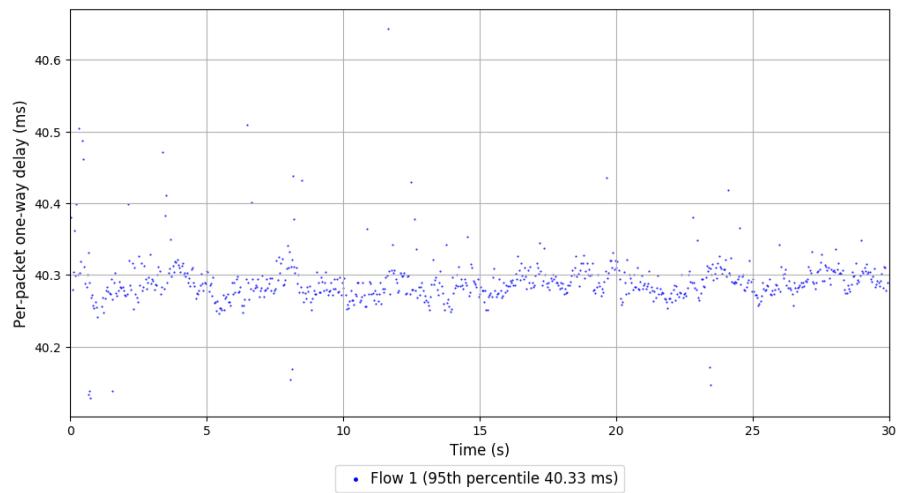
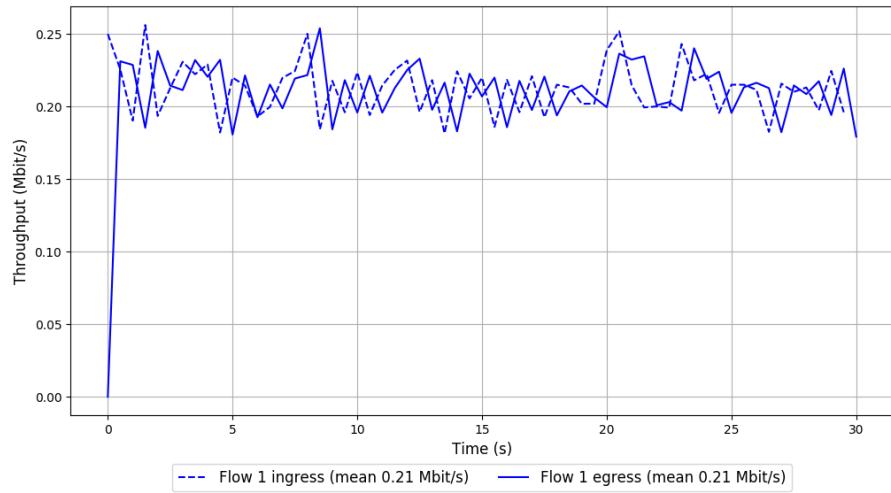


Run 2: Statistics of SCReAM

```
Start at: 2019-06-27 13:45:24
End at: 2019-06-27 13:45:54
Local clock offset: 0.822 ms
Remote clock offset: -1.719 ms

# Below is generated by plot.py at 2019-06-27 15:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.331 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.331 ms
Loss rate: 0.26%
```

## Run 2: Report of SCReAM — Data Link

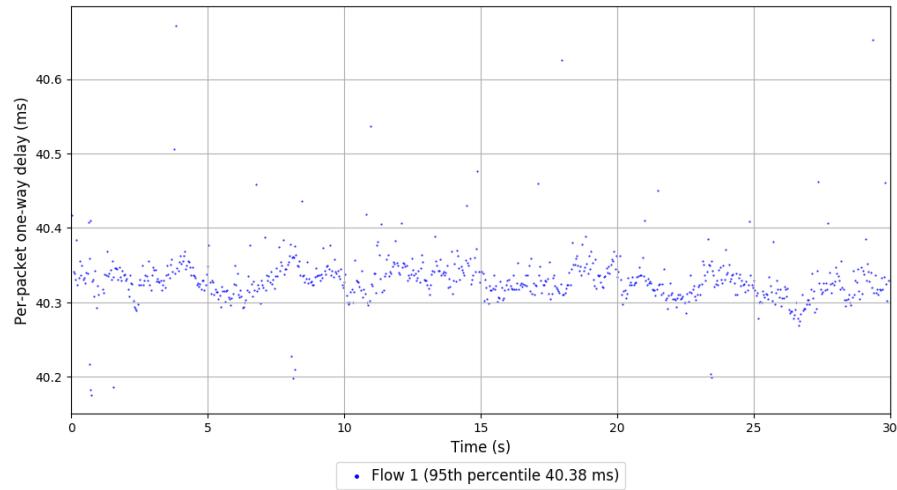
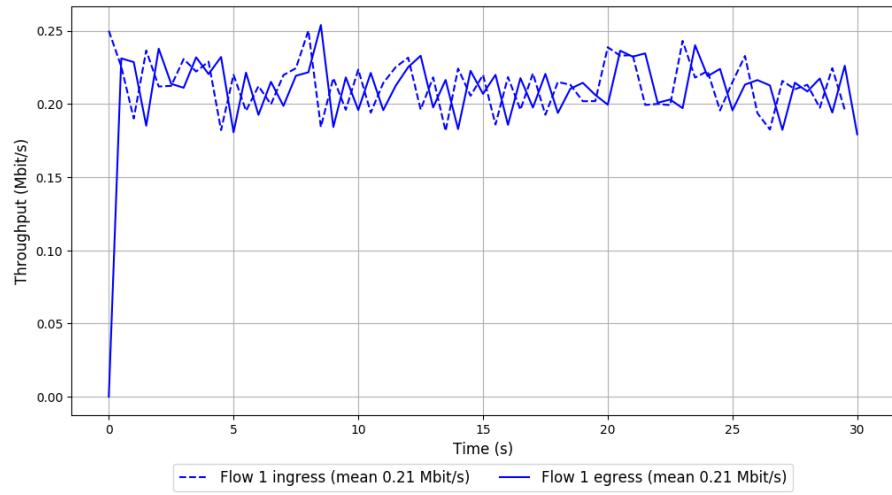


Run 3: Statistics of SCReAM

```
Start at: 2019-06-27 14:12:20
End at: 2019-06-27 14:12:50
Local clock offset: 0.66 ms
Remote clock offset: -2.177 ms

# Below is generated by plot.py at 2019-06-27 15:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.377 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.377 ms
Loss rate: 0.26%
```

Run 3: Report of SCReAM — Data Link

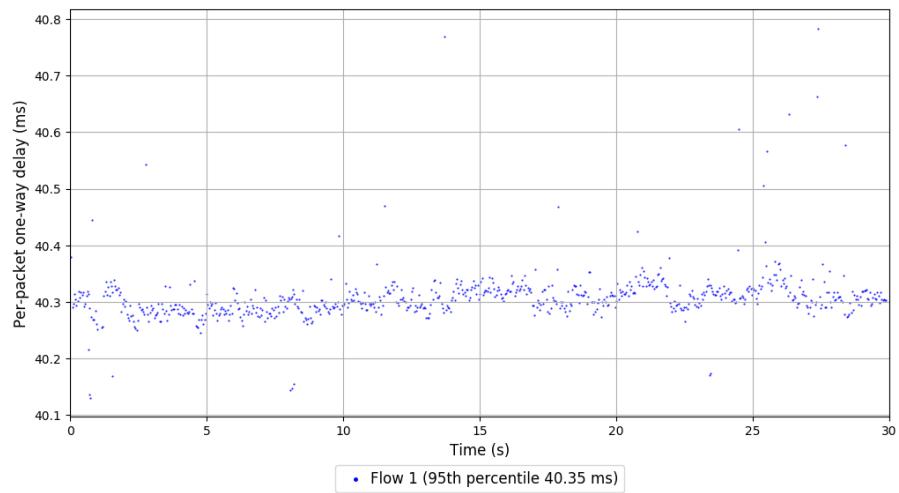
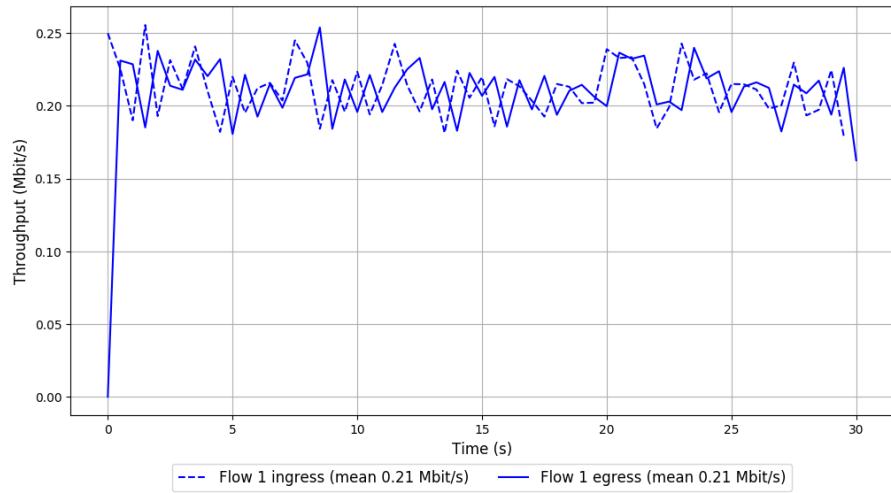


Run 4: Statistics of SCReAM

```
Start at: 2019-06-27 14:40:14
End at: 2019-06-27 14:40:44
Local clock offset: -3.482 ms
Remote clock offset: -2.205 ms

# Below is generated by plot.py at 2019-06-27 15:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.347 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.347 ms
Loss rate: 0.26%
```

Run 4: Report of SCReAM — Data Link

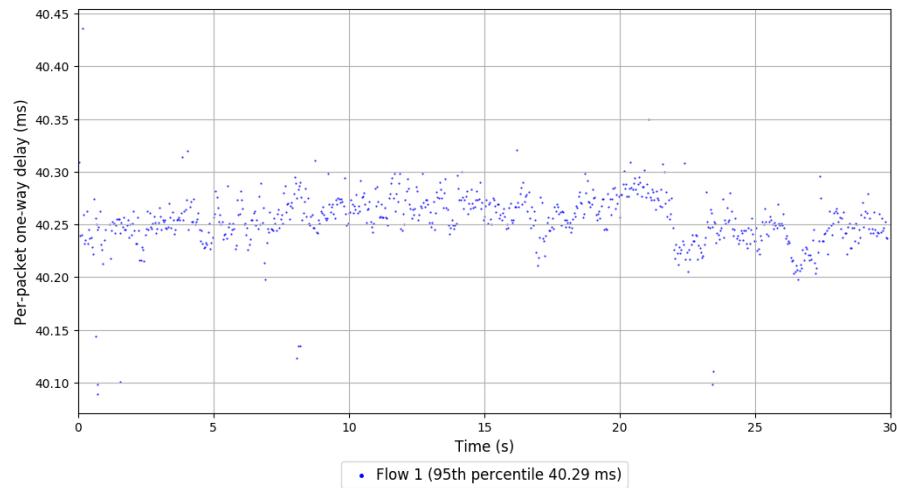
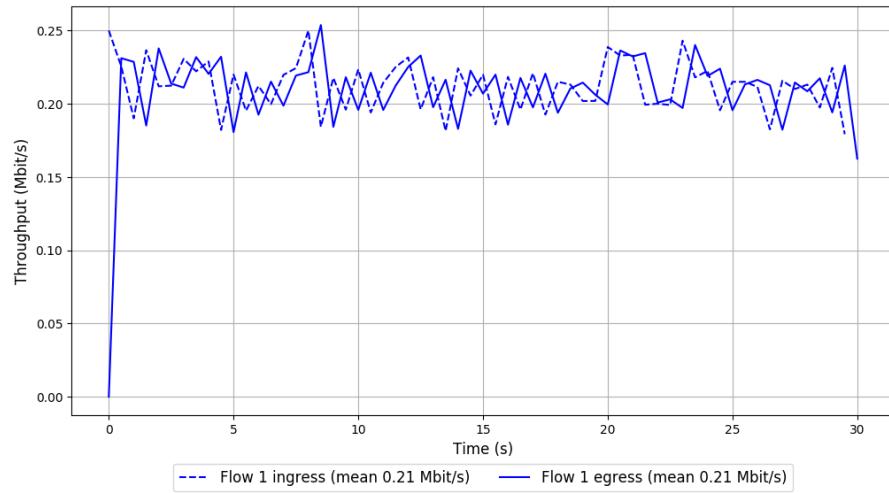


Run 5: Statistics of SCReAM

```
Start at: 2019-06-27 15:07:16
End at: 2019-06-27 15:07:46
Local clock offset: -3.126 ms
Remote clock offset: -2.268 ms

# Below is generated by plot.py at 2019-06-27 15:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.289 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.289 ms
Loss rate: 0.26%
```

Run 5: Report of SCReAM — Data Link

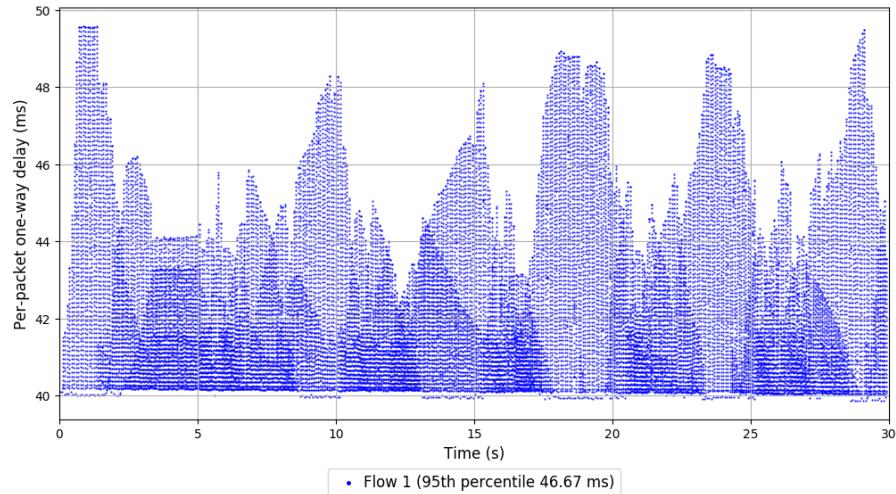
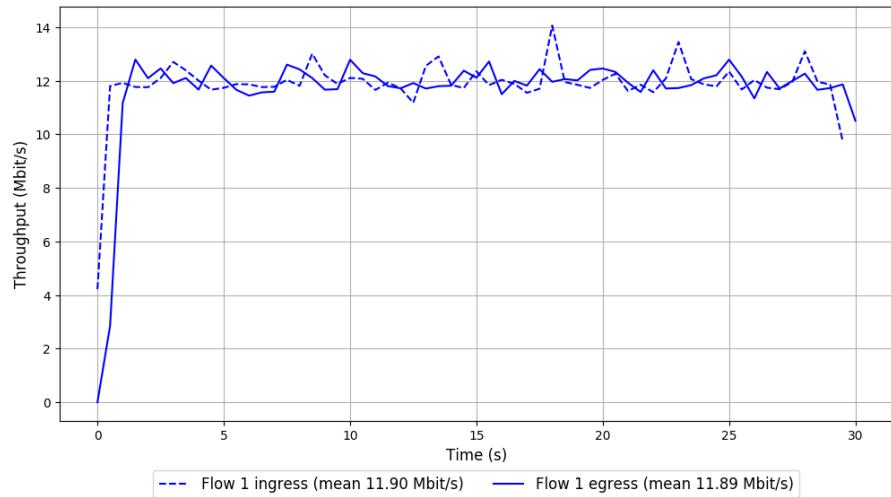


Run 1: Statistics of Sprout

```
Start at: 2019-06-27 13:18:49
End at: 2019-06-27 13:19:19
Local clock offset: -2.867 ms
Remote clock offset: -3.035 ms

# Below is generated by plot.py at 2019-06-27 15:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 46.671 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 46.671 ms
Loss rate: 0.17%
```

## Run 1: Report of Sprout — Data Link

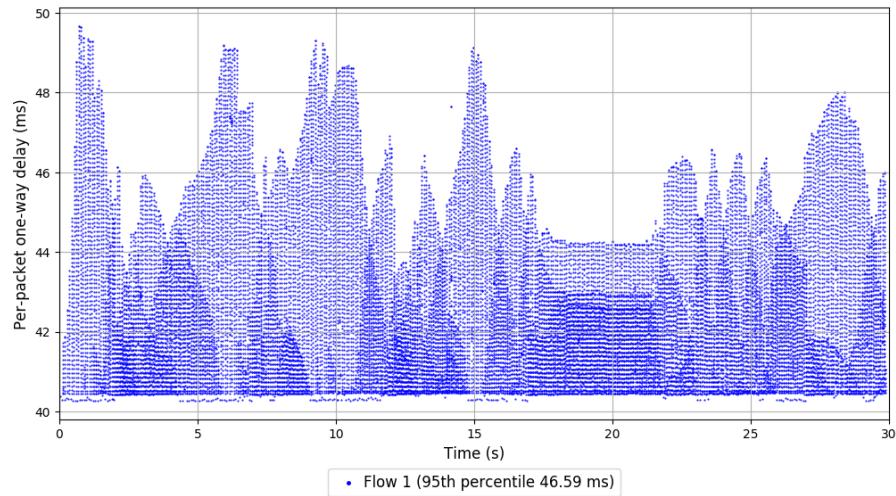
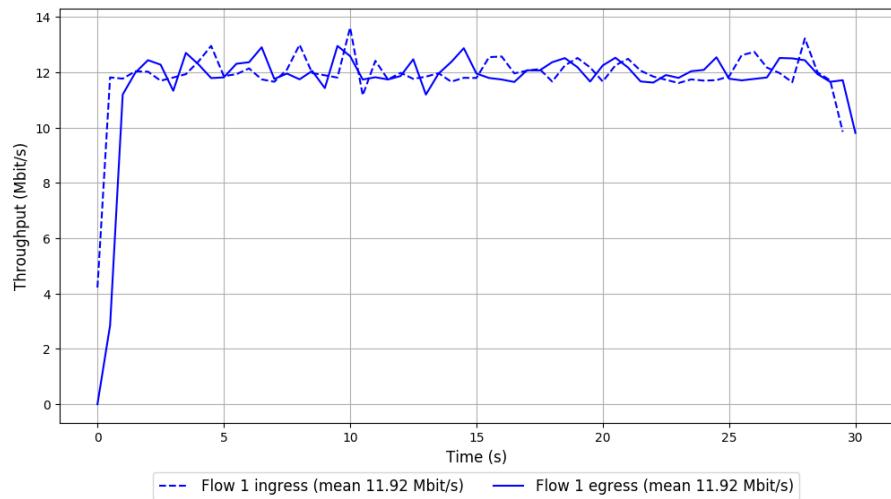


Run 2: Statistics of Sprout

```
Start at: 2019-06-27 13:46:31
End at: 2019-06-27 13:47:01
Local clock offset: 0.87 ms
Remote clock offset: -1.717 ms

# Below is generated by plot.py at 2019-06-27 15:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 46.587 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 46.587 ms
Loss rate: 0.28%
```

## Run 2: Report of Sprout — Data Link

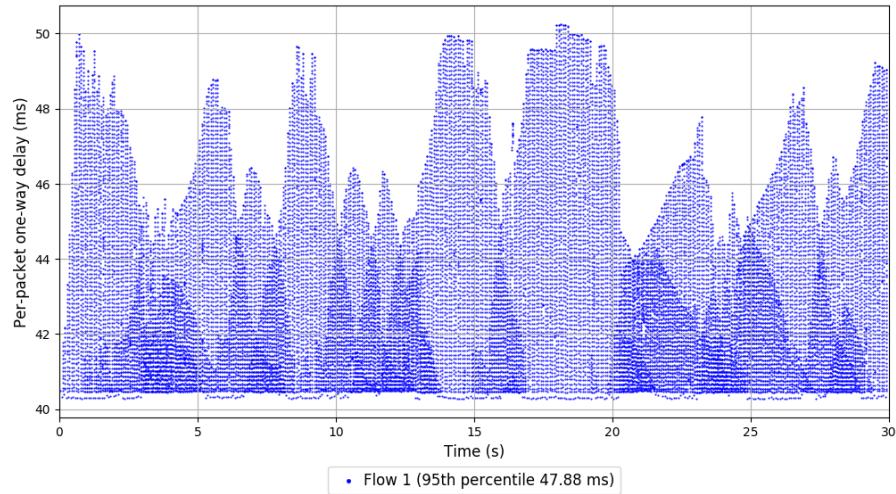
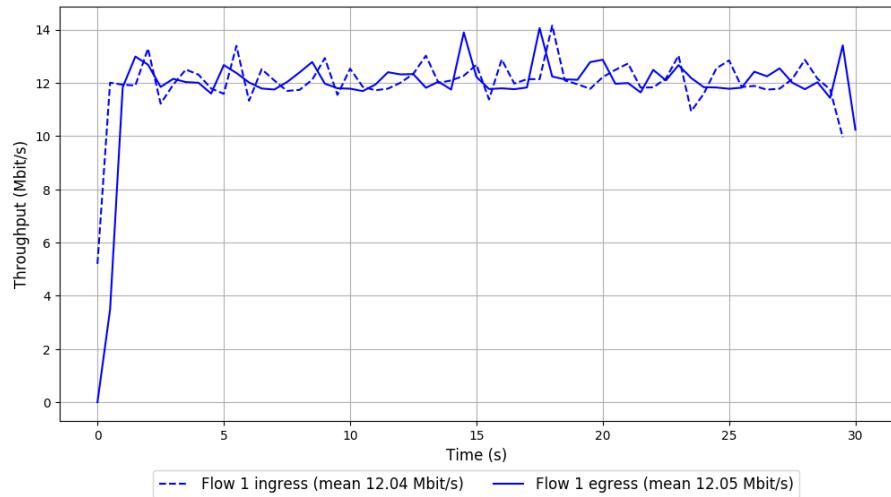


Run 3: Statistics of Sprout

```
Start at: 2019-06-27 14:13:27
End at: 2019-06-27 14:13:57
Local clock offset: 0.687 ms
Remote clock offset: -2.227 ms

# Below is generated by plot.py at 2019-06-27 15:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 47.880 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 47.880 ms
Loss rate: 0.00%
```

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

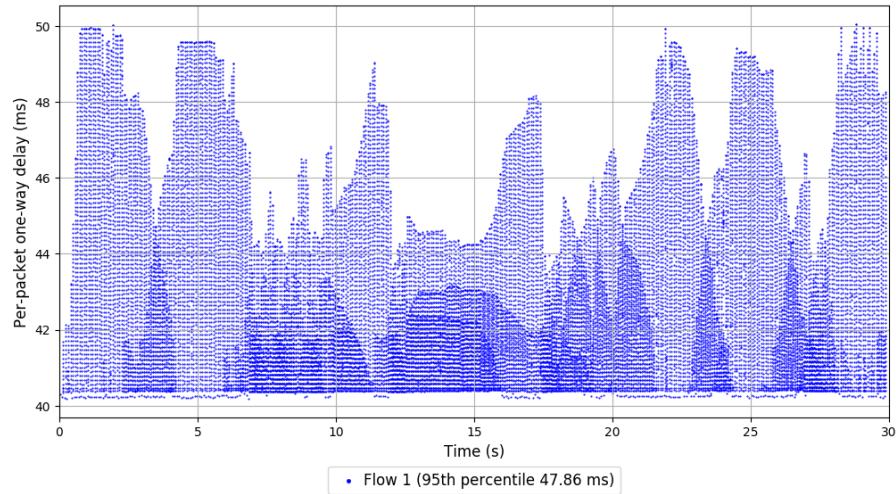
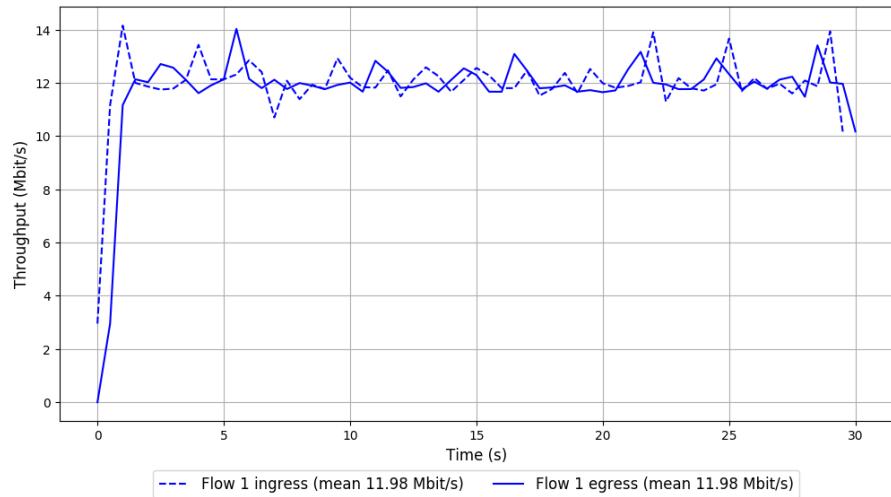


Run 4: Statistics of Sprout

```
Start at: 2019-06-27 14:41:21
End at: 2019-06-27 14:41:51
Local clock offset: -3.545 ms
Remote clock offset: -2.257 ms

# Below is generated by plot.py at 2019-06-27 15:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 47.863 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 47.863 ms
Loss rate: 0.27%
```

## Run 4: Report of Sprout — Data Link

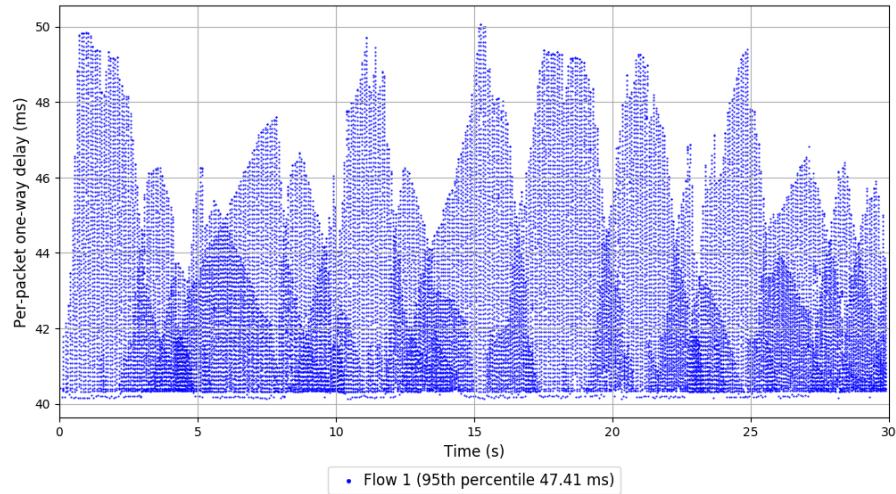
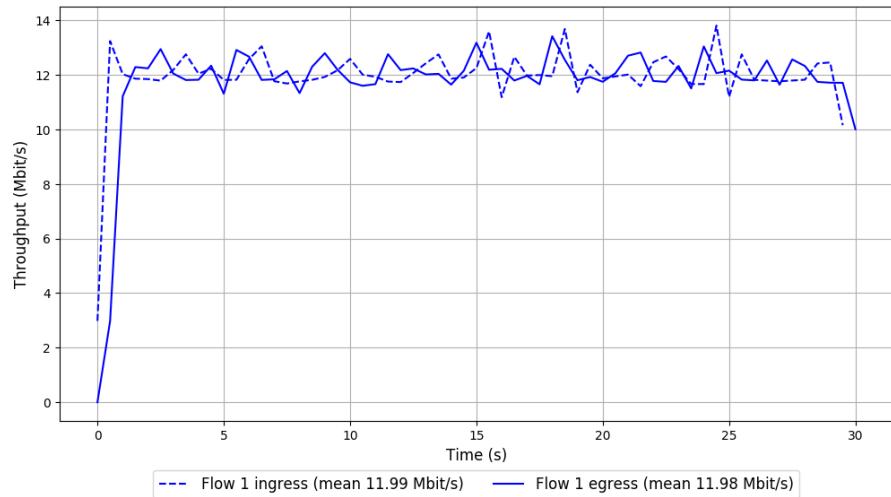


Run 5: Statistics of Sprout

```
Start at: 2019-06-27 15:08:22
End at: 2019-06-27 15:08:52
Local clock offset: -3.11 ms
Remote clock offset: -2.293 ms

# Below is generated by plot.py at 2019-06-27 15:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 47.408 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 47.408 ms
Loss rate: 0.25%
```

## Run 5: Report of Sprout — Data Link

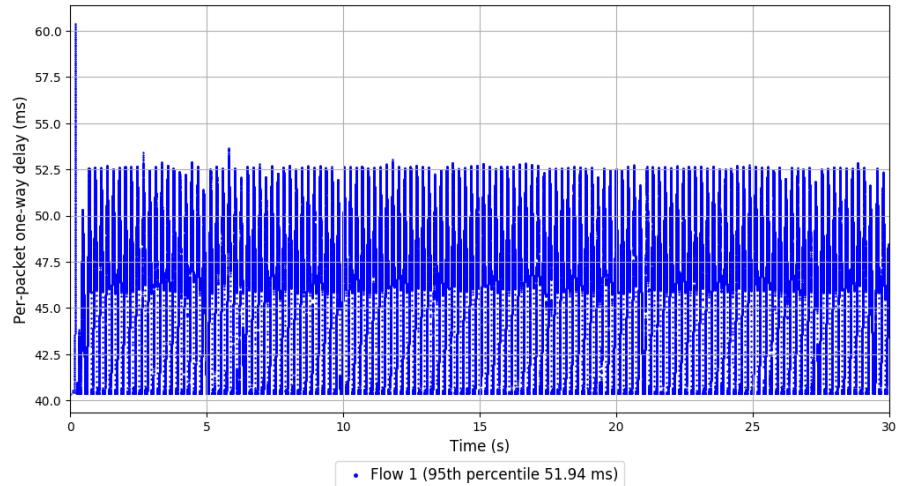
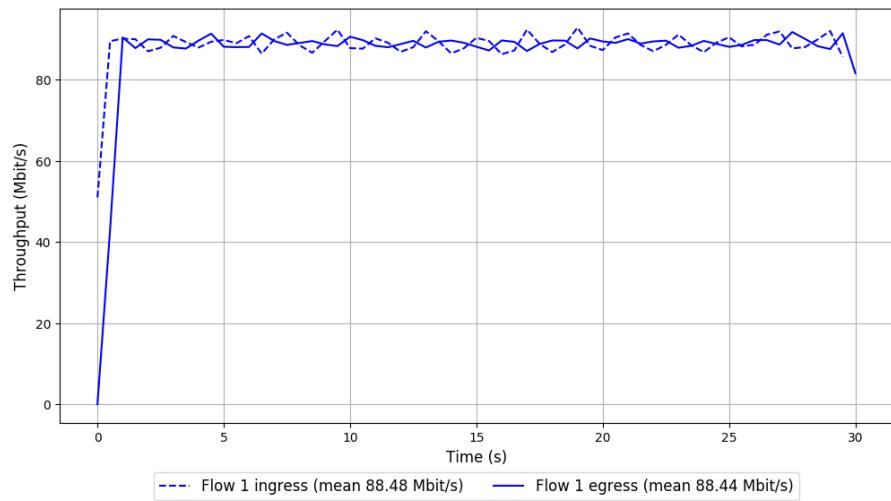


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-06-27 13:36:10
End at: 2019-06-27 13:36:40
Local clock offset: 0.288 ms
Remote clock offset: -2.323 ms

# Below is generated by plot.py at 2019-06-27 15:41:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.44 Mbit/s
95th percentile per-packet one-way delay: 51.937 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 88.44 Mbit/s
95th percentile per-packet one-way delay: 51.937 ms
Loss rate: 0.26%
```

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

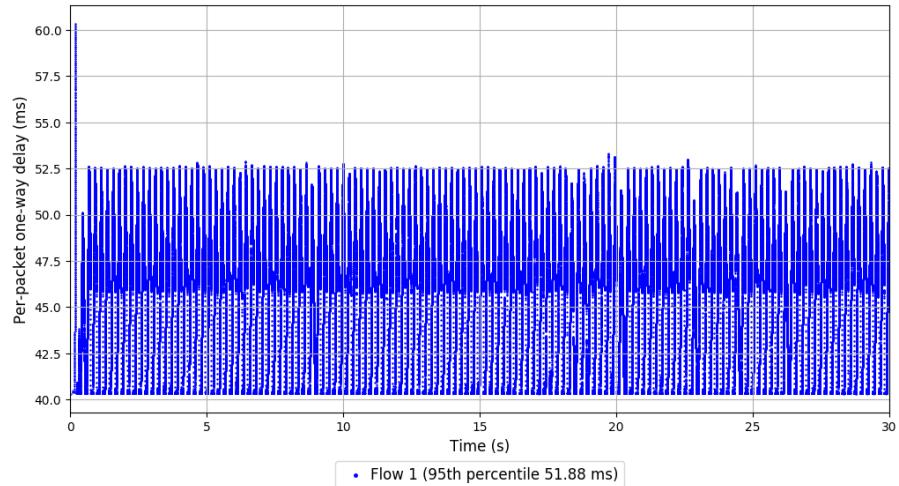
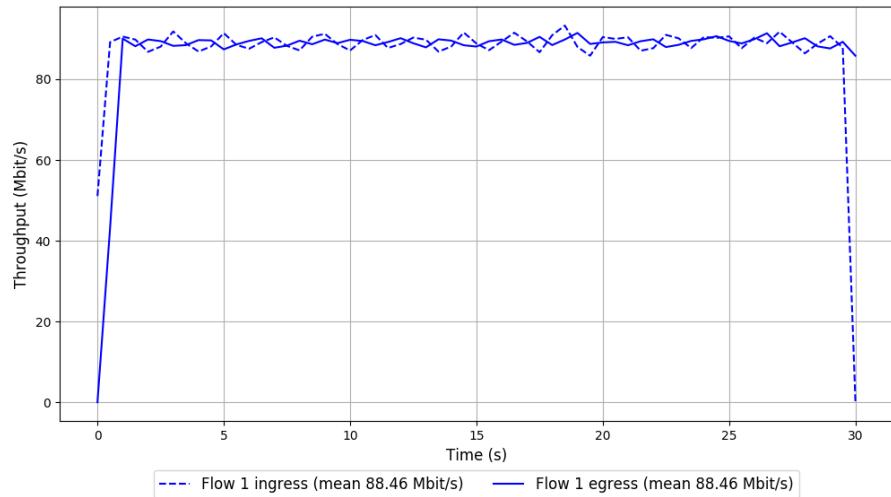


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-06-27 14:03:39
End at: 2019-06-27 14:04:09
Local clock offset: 0.603 ms
Remote clock offset: -2.072 ms

# Below is generated by plot.py at 2019-06-27 15:41:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.46 Mbit/s
95th percentile per-packet one-way delay: 51.881 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 88.46 Mbit/s
95th percentile per-packet one-way delay: 51.881 ms
Loss rate: 0.22%
```

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

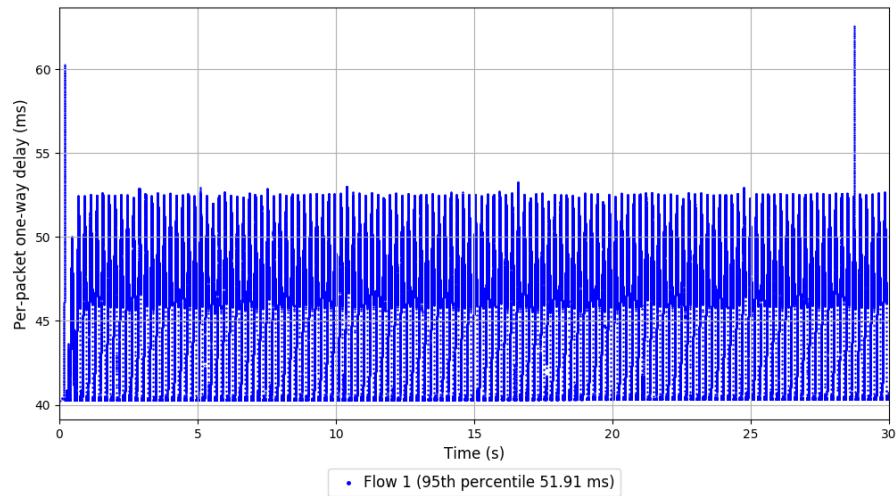
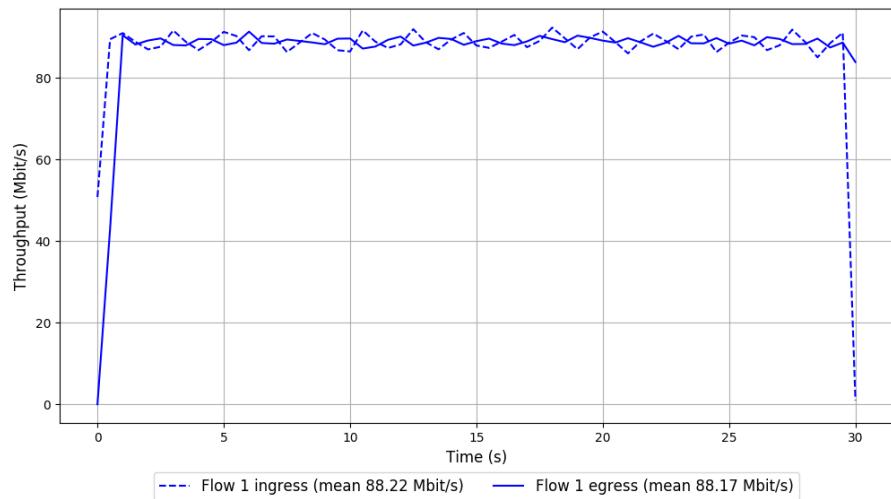


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-06-27 14:30:50
End at: 2019-06-27 14:31:20
Local clock offset: -2.584 ms
Remote clock offset: -2.197 ms

# Below is generated by plot.py at 2019-06-27 15:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.17 Mbit/s
95th percentile per-packet one-way delay: 51.909 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 88.17 Mbit/s
95th percentile per-packet one-way delay: 51.909 ms
Loss rate: 0.28%
```

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

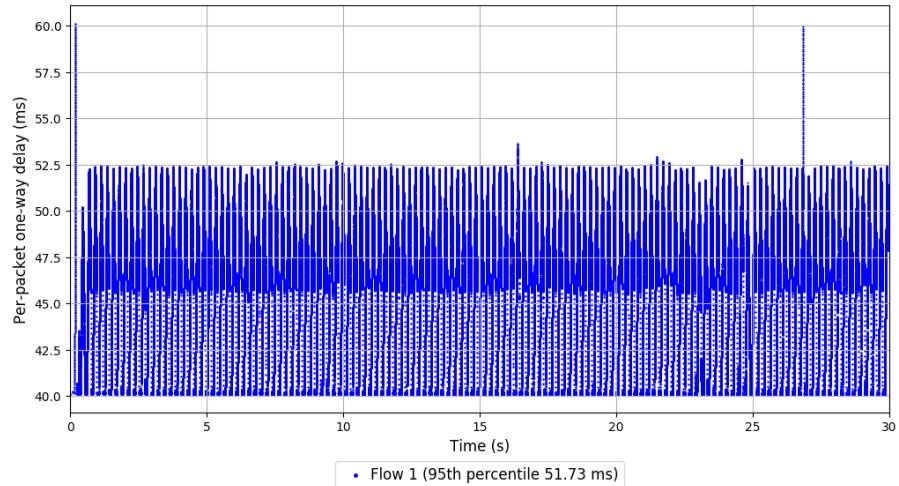
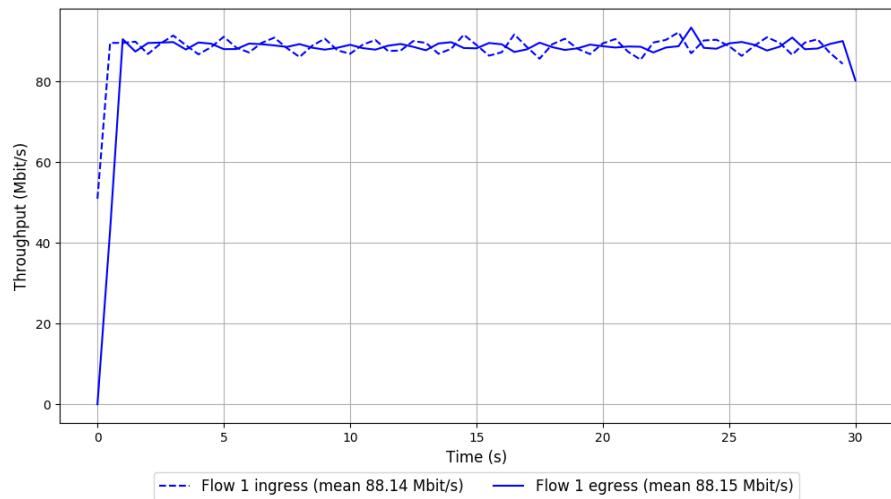


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-06-27 14:58:31
End at: 2019-06-27 14:59:01
Local clock offset: -3.222 ms
Remote clock offset: -2.186 ms

# Below is generated by plot.py at 2019-06-27 15:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.15 Mbit/s
95th percentile per-packet one-way delay: 51.726 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 88.15 Mbit/s
95th percentile per-packet one-way delay: 51.726 ms
Loss rate: 0.20%
```

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

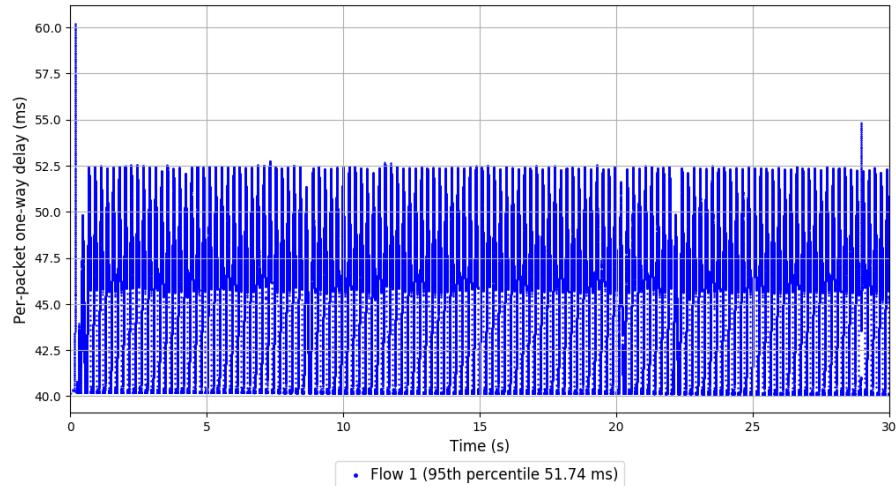
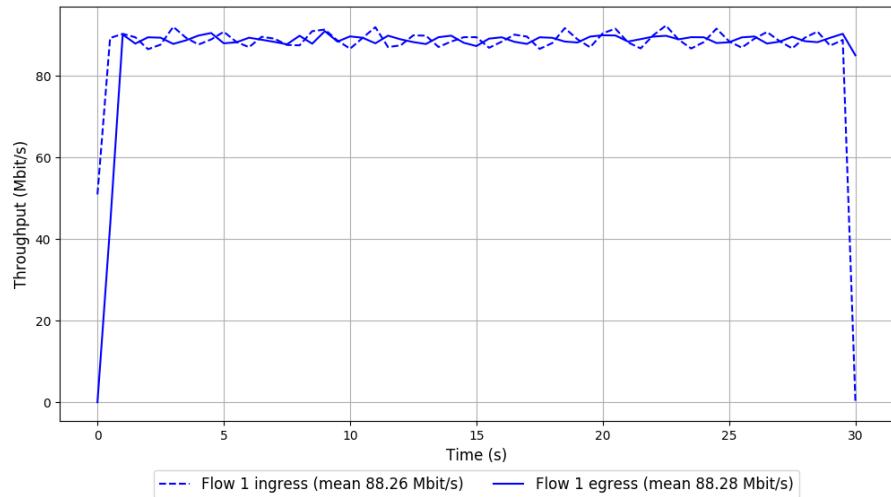


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-06-27 15:25:06
End at: 2019-06-27 15:25:36
Local clock offset: -1.239 ms
Remote clock offset: -2.495 ms

# Below is generated by plot.py at 2019-06-27 15:41:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 51.745 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 51.745 ms
Loss rate: 0.20%
```

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

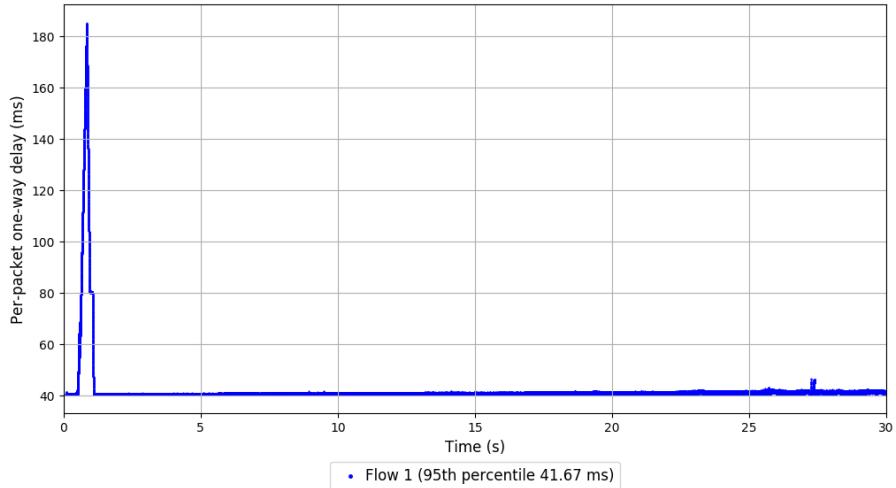
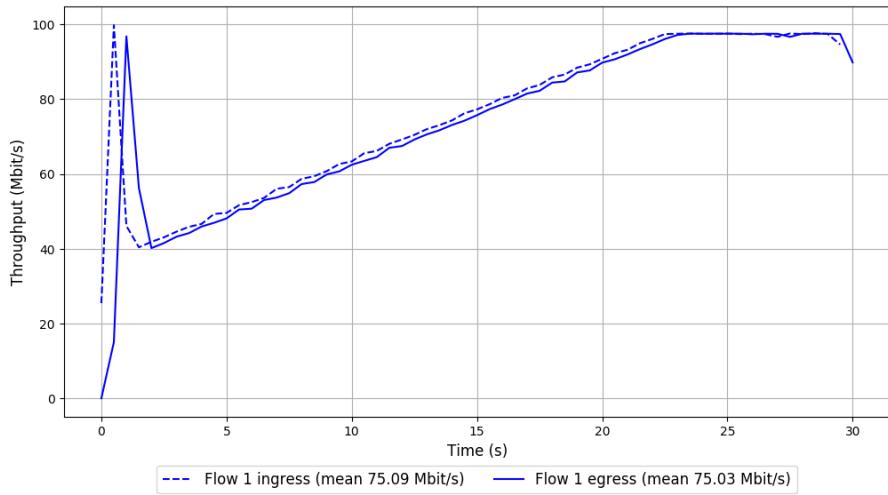


Run 1: Statistics of TCP Vegas

```
Start at: 2019-06-27 13:24:43
End at: 2019-06-27 13:25:13
Local clock offset: -1.217 ms
Remote clock offset: -2.859 ms

# Below is generated by plot.py at 2019-06-27 15:41:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.03 Mbit/s
95th percentile per-packet one-way delay: 41.675 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 75.03 Mbit/s
95th percentile per-packet one-way delay: 41.675 ms
Loss rate: 0.29%
```

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

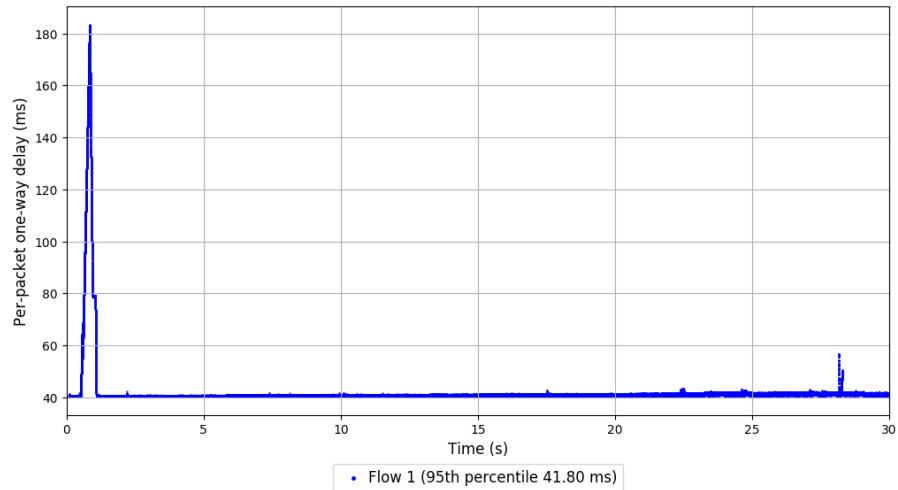
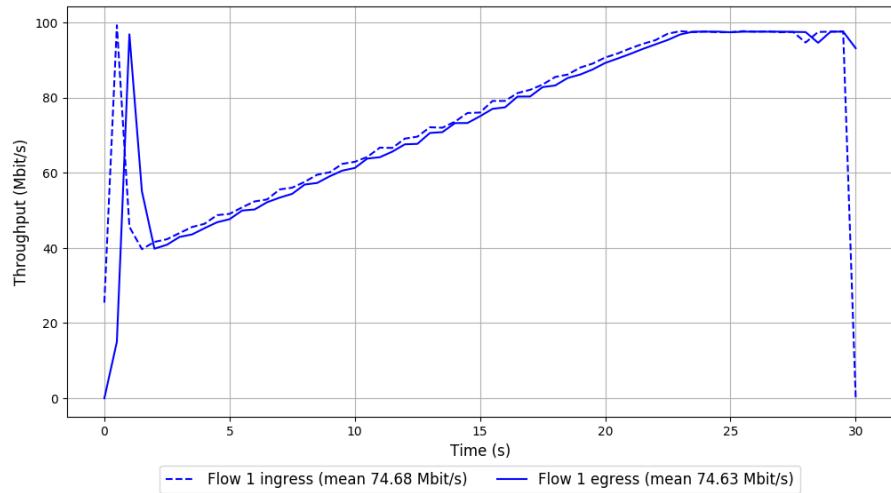


Run 2: Statistics of TCP Vegas

```
Start at: 2019-06-27 13:52:34
End at: 2019-06-27 13:53:04
Local clock offset: 0.746 ms
Remote clock offset: -1.722 ms

# Below is generated by plot.py at 2019-06-27 15:41:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.63 Mbit/s
95th percentile per-packet one-way delay: 41.802 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 74.63 Mbit/s
95th percentile per-packet one-way delay: 41.802 ms
Loss rate: 0.29%
```

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

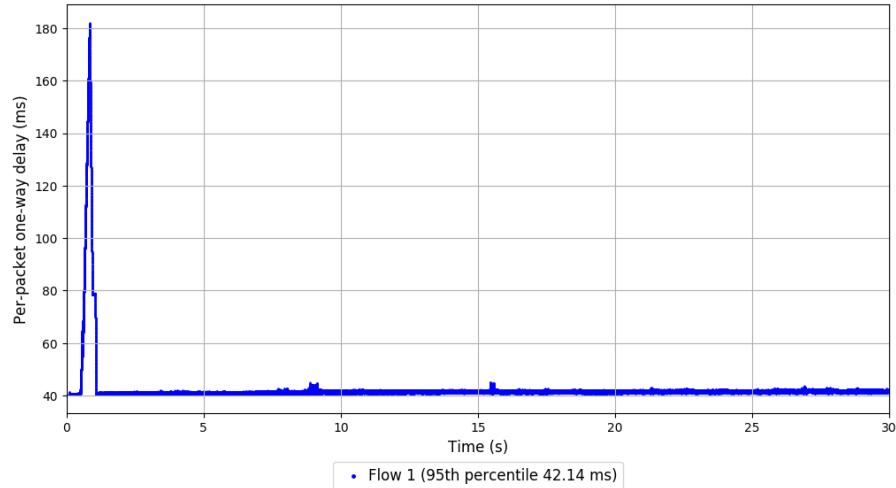
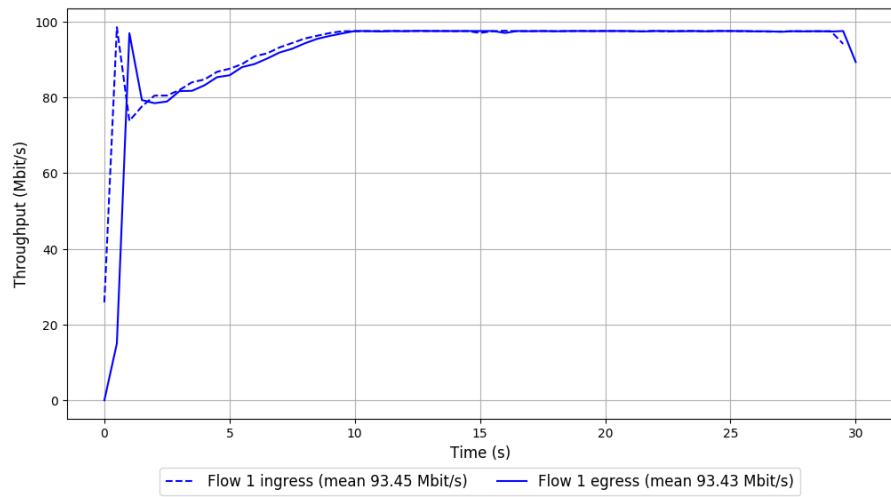


Run 3: Statistics of TCP Vegas

```
Start at: 2019-06-27 14:19:34
End at: 2019-06-27 14:20:04
Local clock offset: 0.116 ms
Remote clock offset: -2.25 ms

# Below is generated by plot.py at 2019-06-27 15:41:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.43 Mbit/s
95th percentile per-packet one-way delay: 42.141 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 93.43 Mbit/s
95th percentile per-packet one-way delay: 42.141 ms
Loss rate: 0.24%
```

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

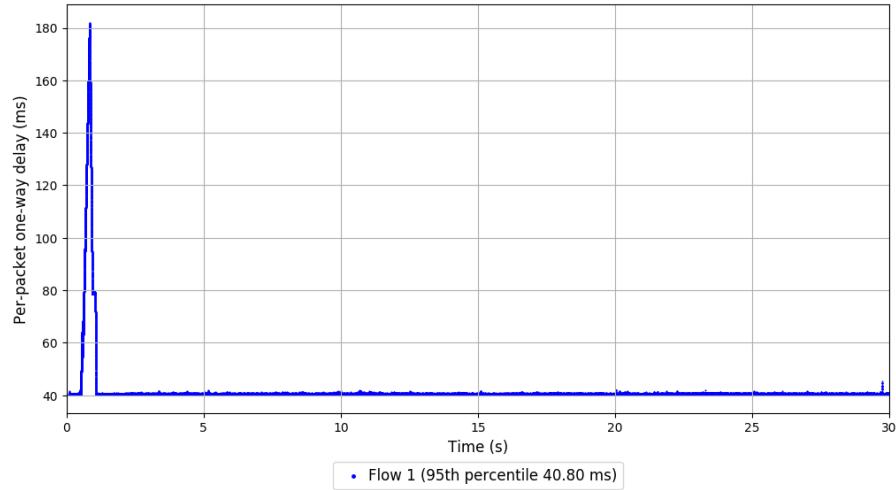
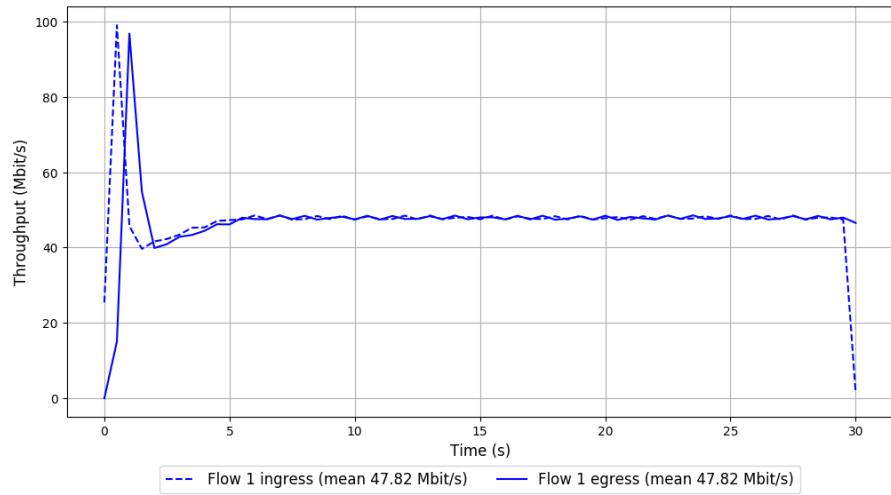


Run 4: Statistics of TCP Vegas

```
Start at: 2019-06-27 14:47:26
End at: 2019-06-27 14:47:56
Local clock offset: -3.9 ms
Remote clock offset: -2.242 ms

# Below is generated by plot.py at 2019-06-27 15:41:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.82 Mbit/s
95th percentile per-packet one-way delay: 40.800 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 47.82 Mbit/s
95th percentile per-packet one-way delay: 40.800 ms
Loss rate: 0.23%
```

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

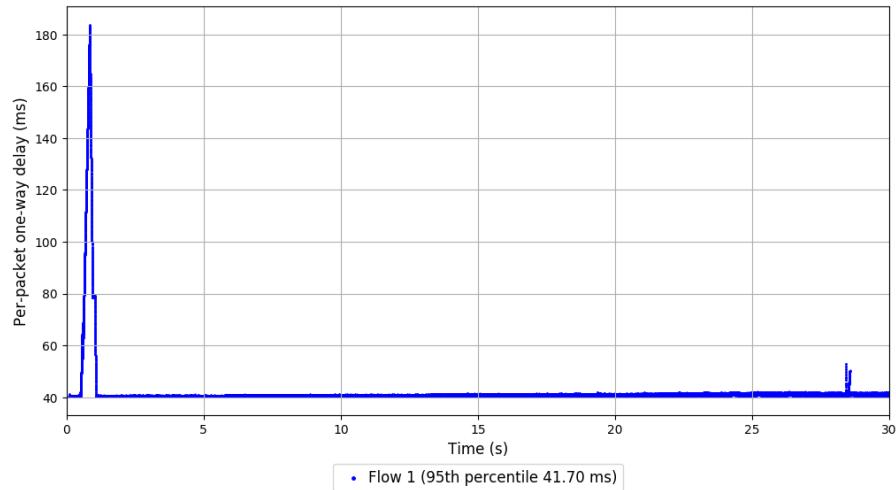
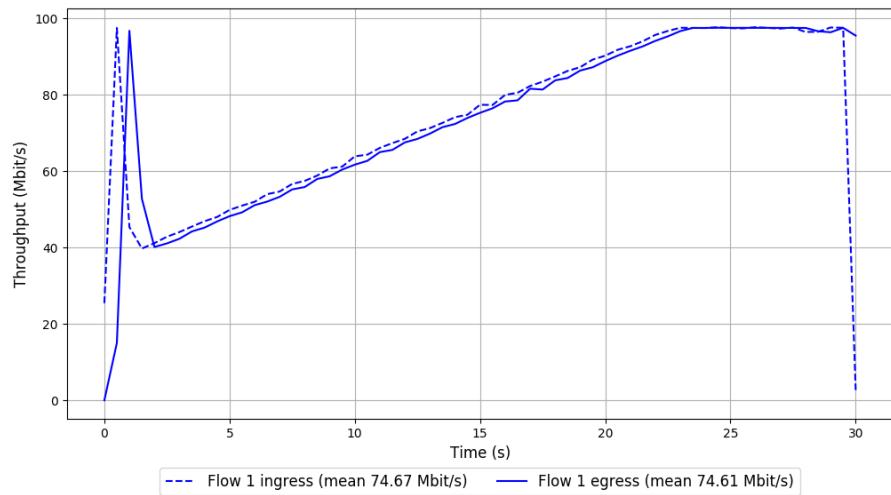


Run 5: Statistics of TCP Vegas

```
Start at: 2019-06-27 15:14:24
End at: 2019-06-27 15:14:54
Local clock offset: -3.156 ms
Remote clock offset: -2.37 ms

# Below is generated by plot.py at 2019-06-27 15:41:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 41.704 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 41.704 ms
Loss rate: 0.29%
```

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

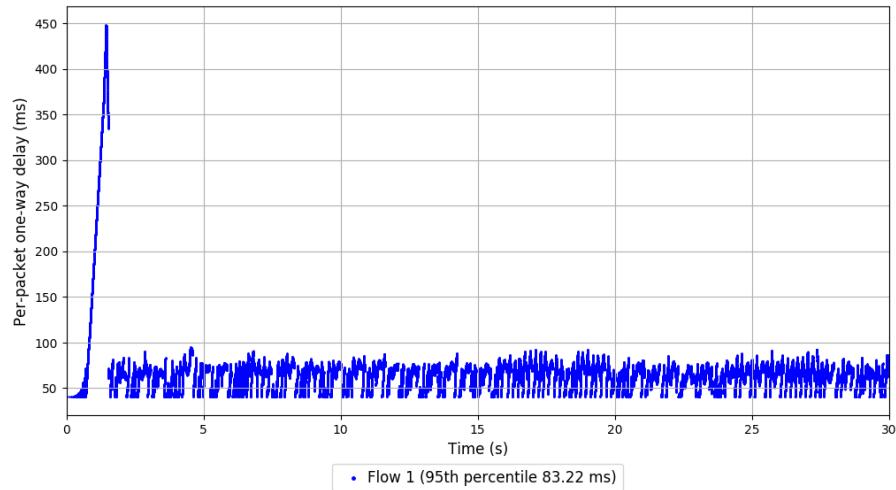
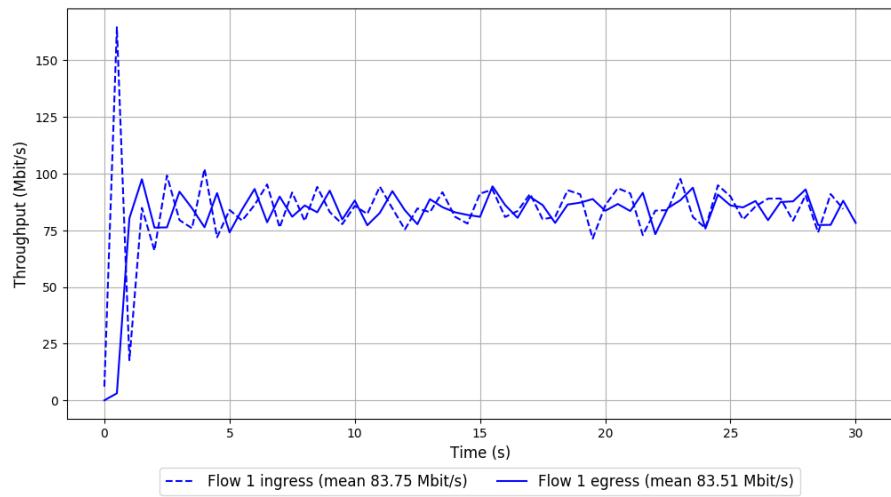


Run 1: Statistics of Verus

```
Start at: 2019-06-27 13:11:48
End at: 2019-06-27 13:12:18
Local clock offset: -3.034 ms
Remote clock offset: -3.279 ms

# Below is generated by plot.py at 2019-06-27 15:42:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.51 Mbit/s
95th percentile per-packet one-way delay: 83.217 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 83.51 Mbit/s
95th percentile per-packet one-way delay: 83.217 ms
Loss rate: 0.50%
```

Run 1: Report of Verus — Data Link

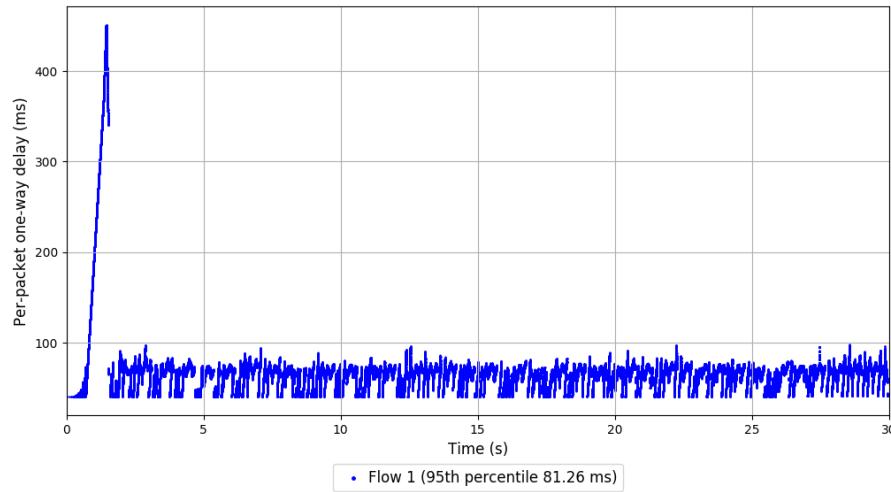
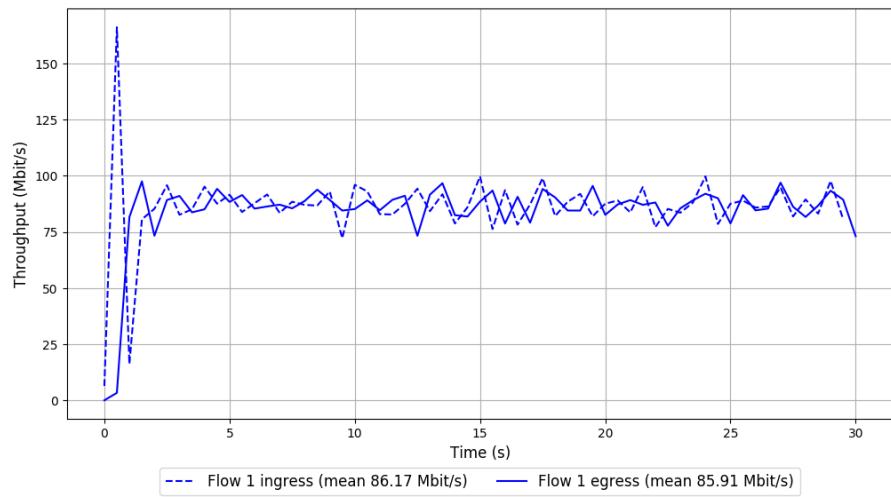


Run 2: Statistics of Verus

```
Start at: 2019-06-27 13:38:48
End at: 2019-06-27 13:39:18
Local clock offset: 0.44 ms
Remote clock offset: -2.106 ms

# Below is generated by plot.py at 2019-06-27 15:42:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.91 Mbit/s
95th percentile per-packet one-way delay: 81.259 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 85.91 Mbit/s
95th percentile per-packet one-way delay: 81.259 ms
Loss rate: 0.51%
```

Run 2: Report of Verus — Data Link

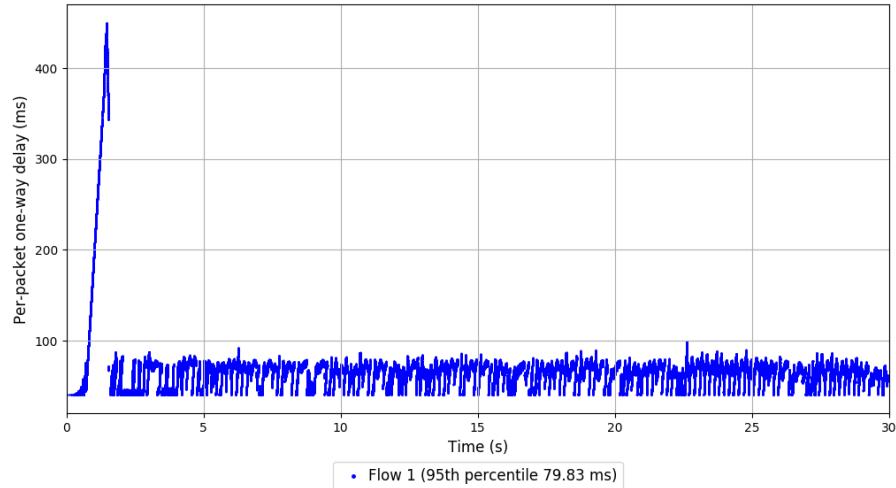
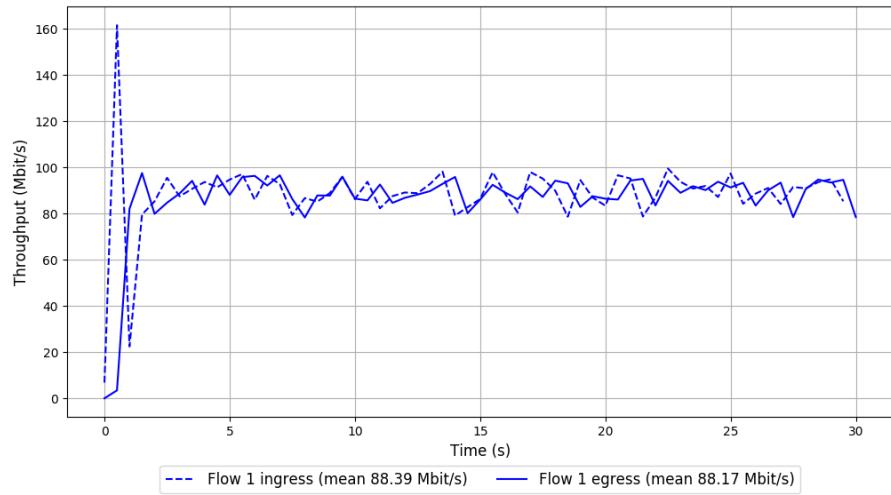


Run 3: Statistics of Verus

```
Start at: 2019-06-27 14:06:18
End at: 2019-06-27 14:06:48
Local clock offset: 0.594 ms
Remote clock offset: -2.083 ms

# Below is generated by plot.py at 2019-06-27 15:42:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.17 Mbit/s
95th percentile per-packet one-way delay: 79.830 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 88.17 Mbit/s
95th percentile per-packet one-way delay: 79.830 ms
Loss rate: 0.46%
```

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

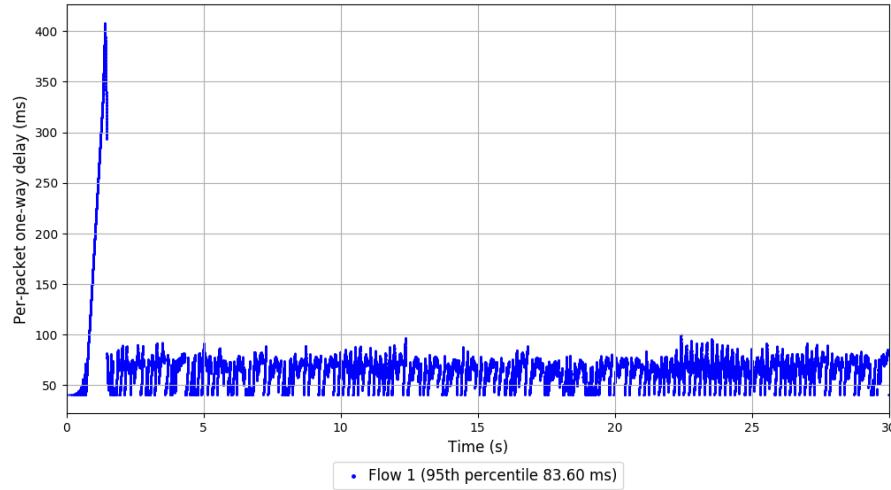
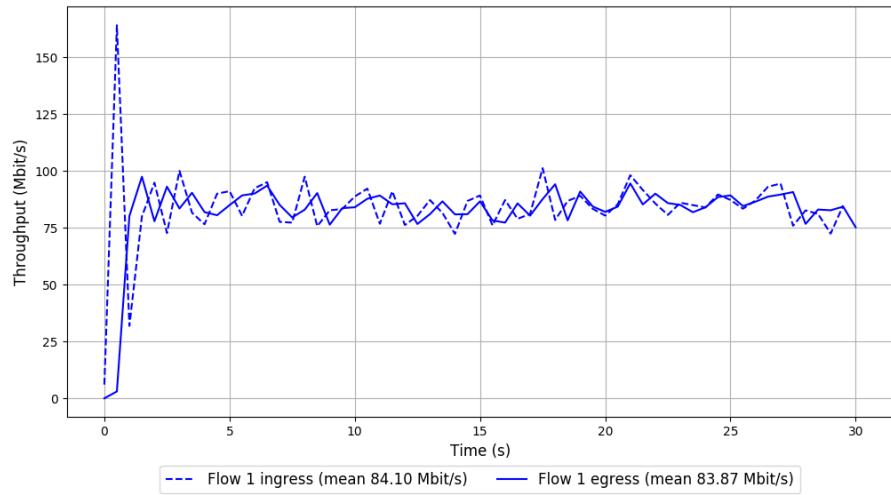


Run 4: Statistics of Verus

```
Start at: 2019-06-27 14:33:33
End at: 2019-06-27 14:34:03
Local clock offset: -2.921 ms
Remote clock offset: -2.226 ms

# Below is generated by plot.py at 2019-06-27 15:42:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.87 Mbit/s
95th percentile per-packet one-way delay: 83.599 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 83.87 Mbit/s
95th percentile per-packet one-way delay: 83.599 ms
Loss rate: 0.50%
```

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

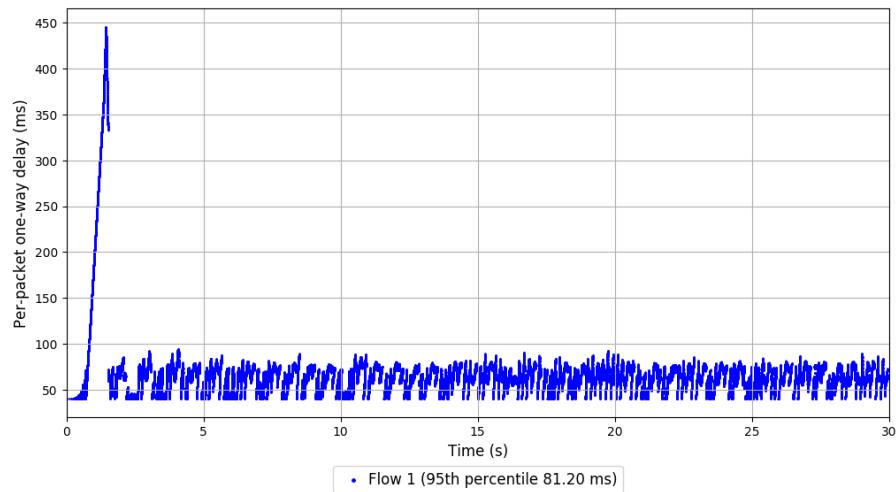
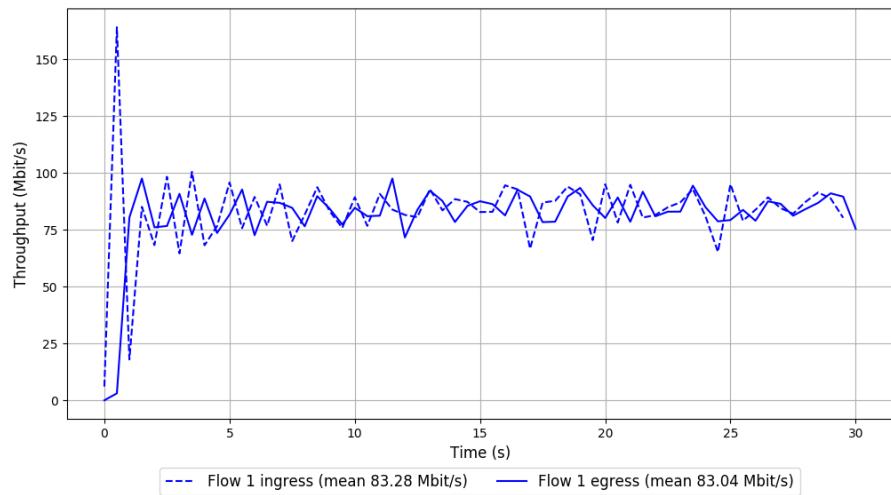


Run 5: Statistics of Verus

```
Start at: 2019-06-27 15:01:11
End at: 2019-06-27 15:01:41
Local clock offset: -3.169 ms
Remote clock offset: -2.283 ms

# Below is generated by plot.py at 2019-06-27 15:42:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 81.197 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 81.197 ms
Loss rate: 0.49%
```

Run 5: Report of Verus — Data Link

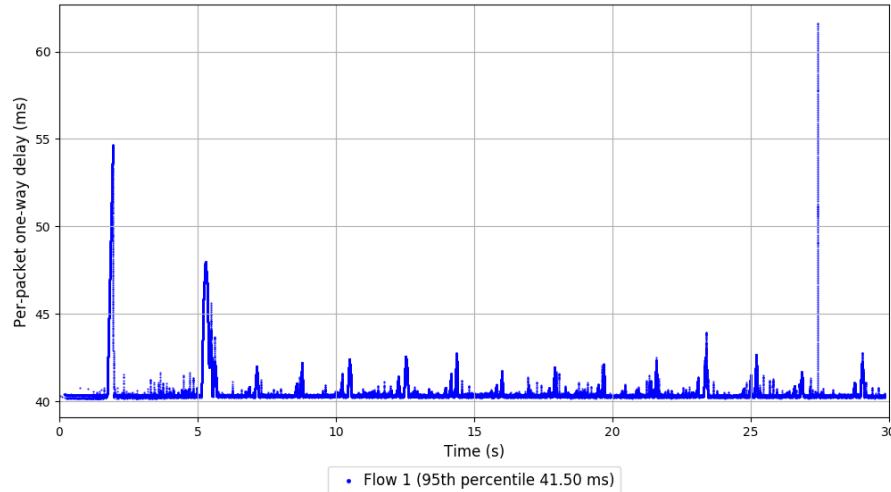
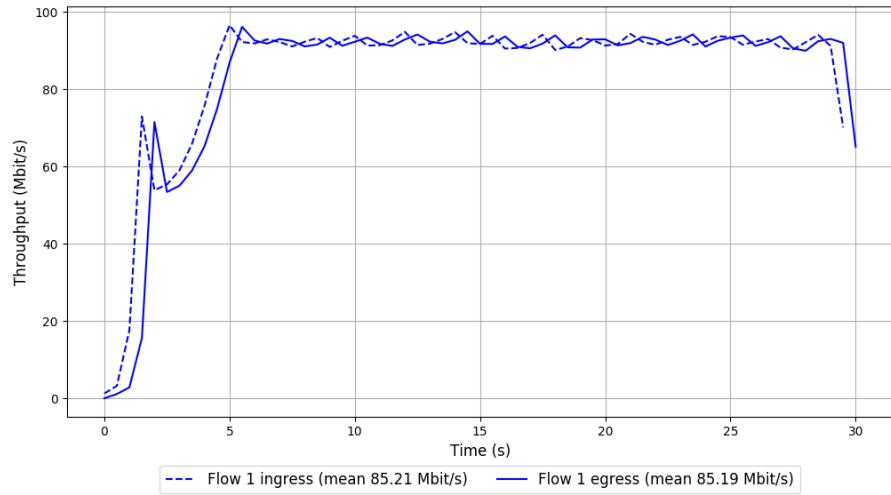


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-06-27 13:33:35
End at: 2019-06-27 13:34:05
Local clock offset: 0.03 ms
Remote clock offset: -2.414 ms

# Below is generated by plot.py at 2019-06-27 15:42:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.19 Mbit/s
95th percentile per-packet one-way delay: 41.504 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 85.19 Mbit/s
95th percentile per-packet one-way delay: 41.504 ms
Loss rate: 0.24%
```

Run 1: Report of PCC-Vivace — Data Link

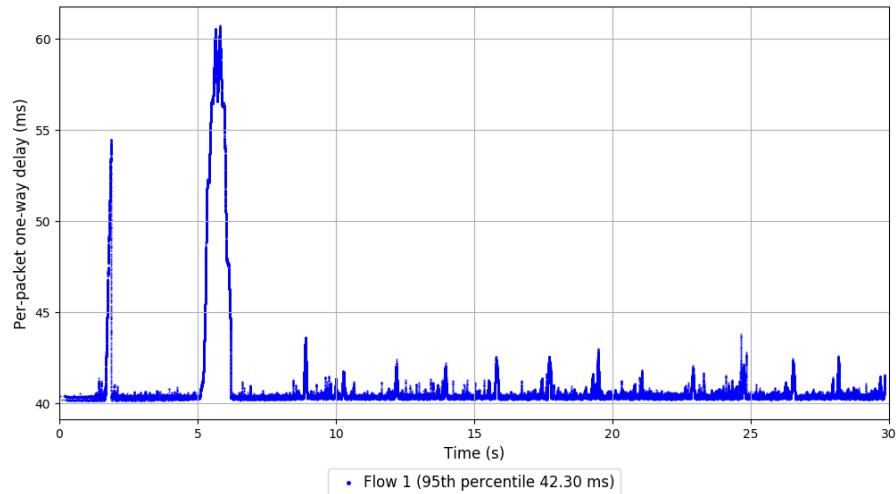
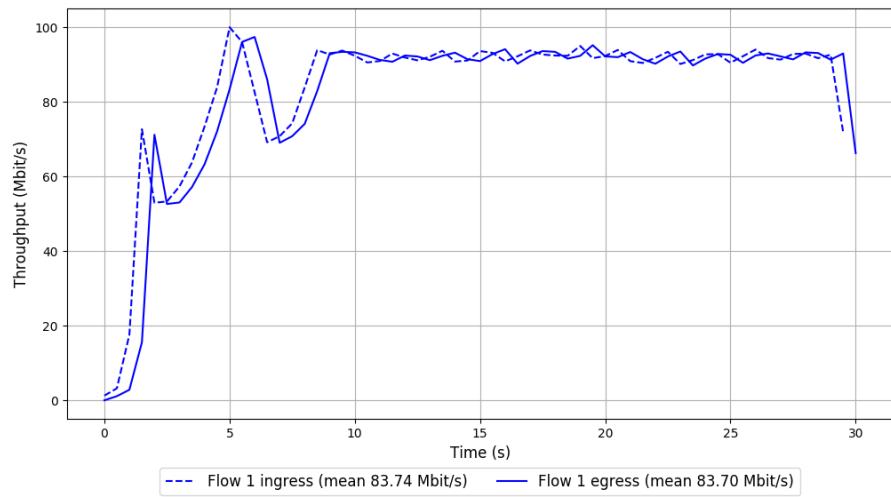


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-06-27 14:01:15
End at: 2019-06-27 14:01:45
Local clock offset: 0.592 ms
Remote clock offset: -2.023 ms

# Below is generated by plot.py at 2019-06-27 15:42:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.70 Mbit/s
95th percentile per-packet one-way delay: 42.300 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 83.70 Mbit/s
95th percentile per-packet one-way delay: 42.300 ms
Loss rate: 0.27%
```

Run 2: Report of PCC-Vivace — Data Link

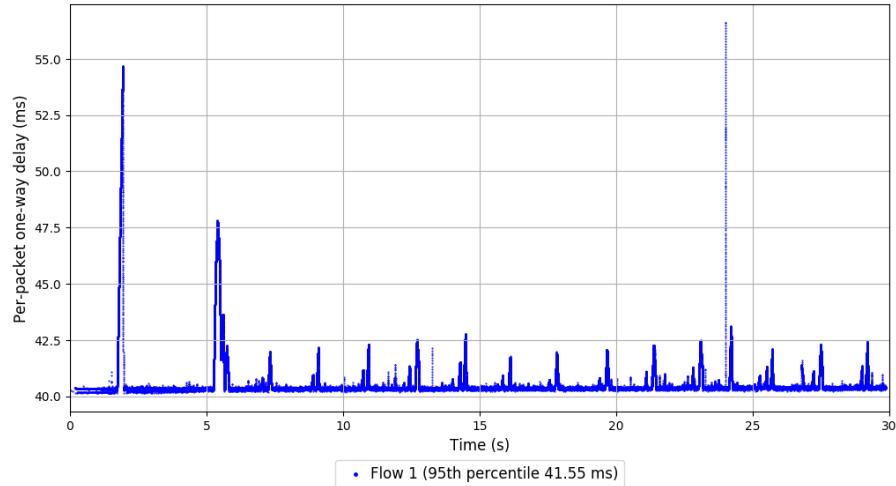
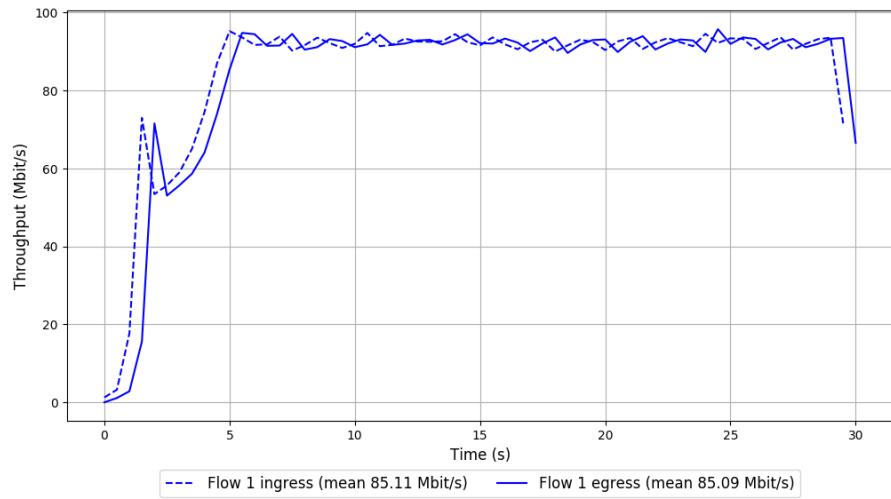


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-06-27 14:28:25
End at: 2019-06-27 14:28:55
Local clock offset: -2.216 ms
Remote clock offset: -2.191 ms

# Below is generated by plot.py at 2019-06-27 15:42:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.09 Mbit/s
95th percentile per-packet one-way delay: 41.545 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 85.09 Mbit/s
95th percentile per-packet one-way delay: 41.545 ms
Loss rate: 0.24%
```

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

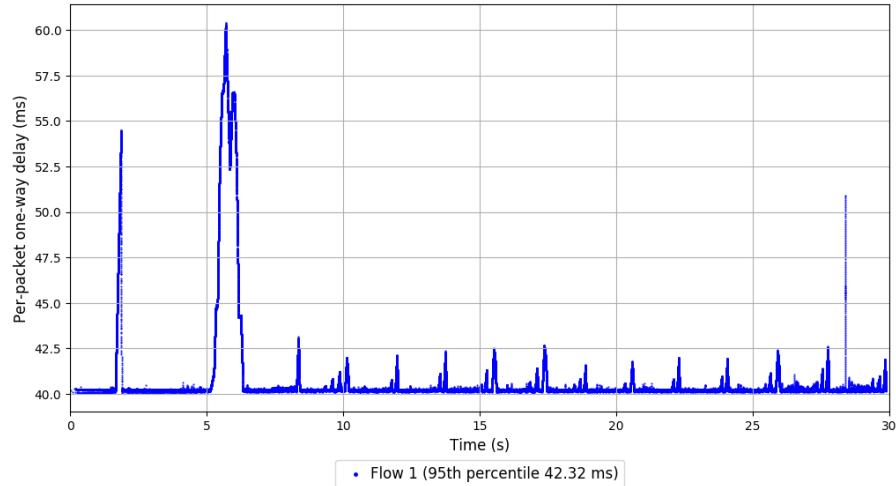
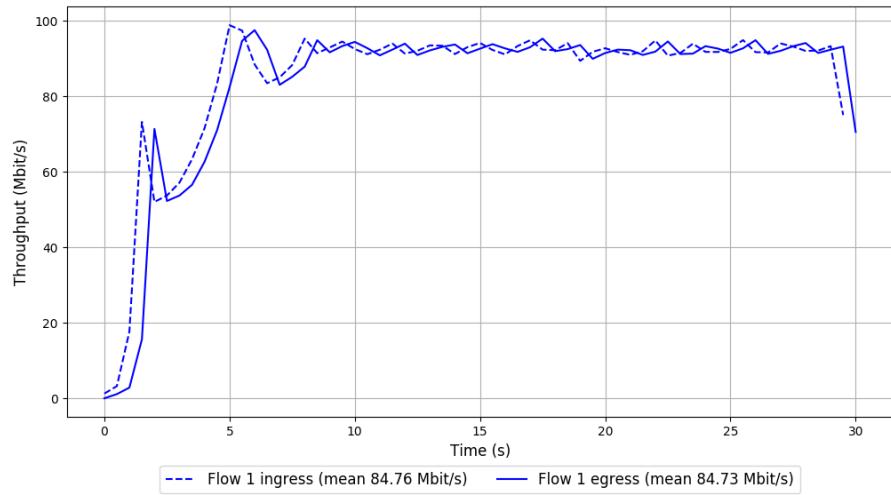


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-06-27 14:56:07
End at: 2019-06-27 14:56:37
Local clock offset: -3.321 ms
Remote clock offset: -2.282 ms

# Below is generated by plot.py at 2019-06-27 15:42:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.73 Mbit/s
95th percentile per-packet one-way delay: 42.317 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 84.73 Mbit/s
95th percentile per-packet one-way delay: 42.317 ms
Loss rate: 0.24%
```

Run 4: Report of PCC-Vivace — Data Link

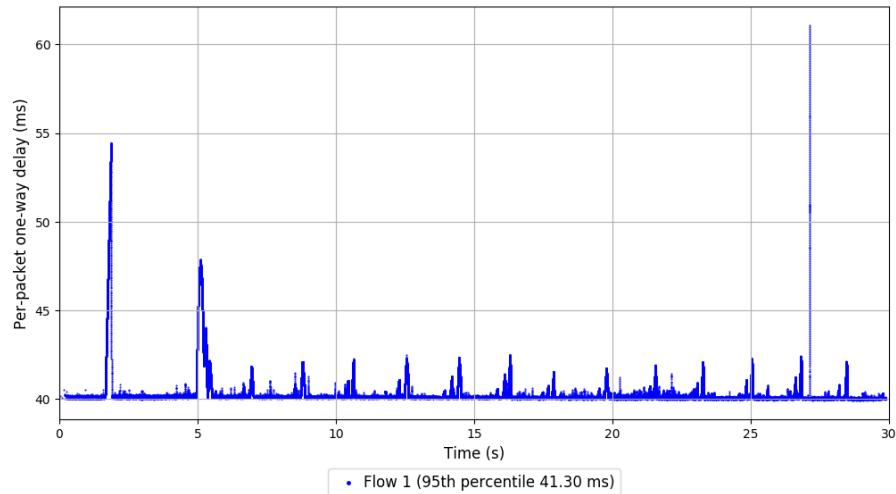
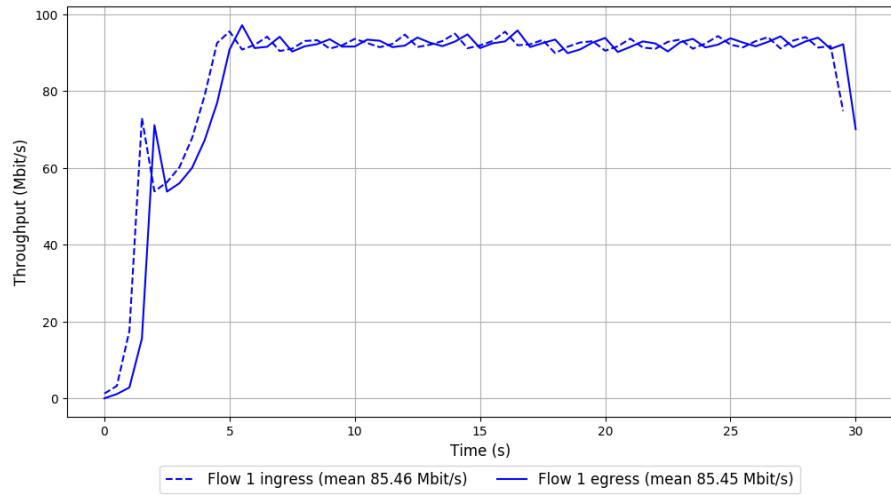


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-06-27 15:22:44
End at: 2019-06-27 15:23:14
Local clock offset: -1.802 ms
Remote clock offset: -2.434 ms

# Below is generated by plot.py at 2019-06-27 15:42:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.45 Mbit/s
95th percentile per-packet one-way delay: 41.296 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 85.45 Mbit/s
95th percentile per-packet one-way delay: 41.296 ms
Loss rate: 0.23%
```

Run 5: Report of PCC-Vivace — Data Link

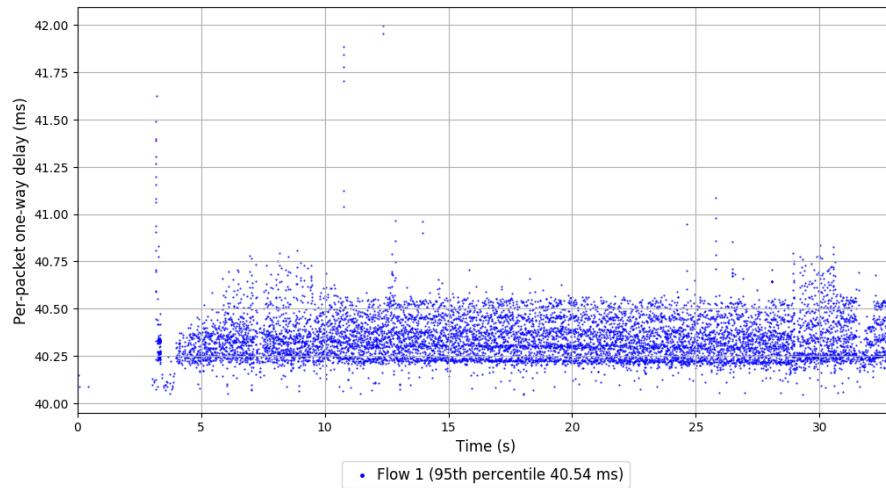
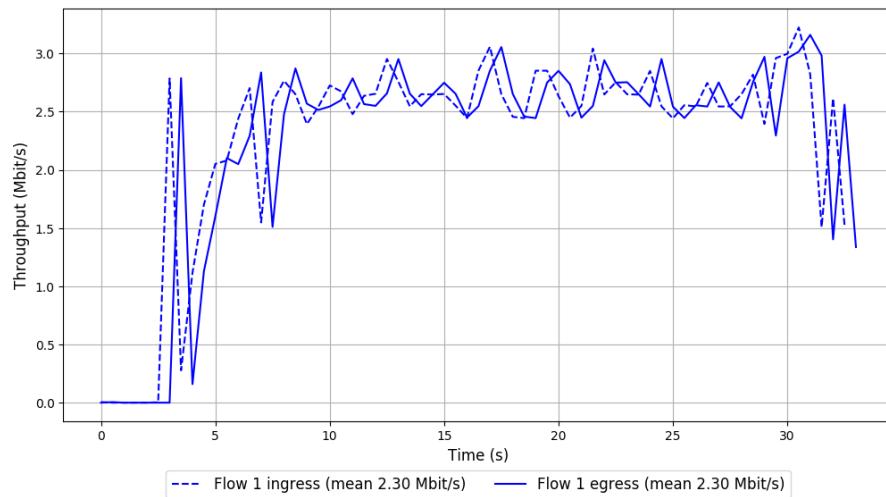


```
Run 1: Statistics of WebRTC media

Start at: 2019-06-27 13:35:02
End at: 2019-06-27 13:35:32
Local clock offset: 0.168 ms
Remote clock offset: -2.279 ms

# Below is generated by plot.py at 2019-06-27 15:42:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 40.542 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 40.542 ms
Loss rate: 0.26%
```

Run 1: Report of WebRTC media — Data Link

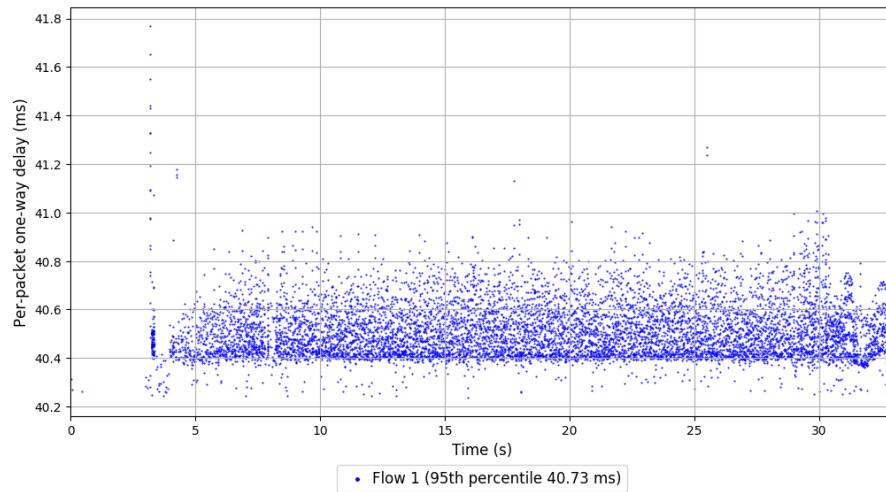
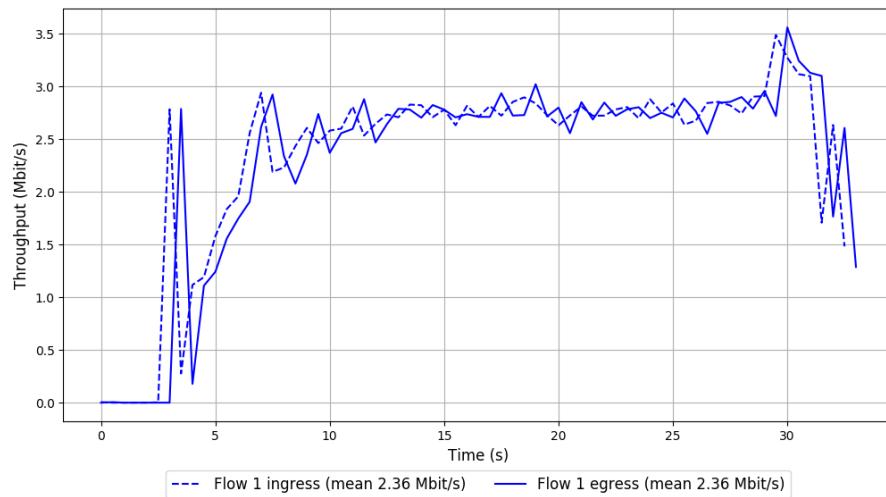


Run 2: Statistics of WebRTC media

```
Start at: 2019-06-27 14:02:32
End at: 2019-06-27 14:03:02
Local clock offset: 0.569 ms
Remote clock offset: -2.057 ms

# Below is generated by plot.py at 2019-06-27 15:42:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 40.729 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 40.729 ms
Loss rate: 0.24%
```

Run 2: Report of WebRTC media — Data Link

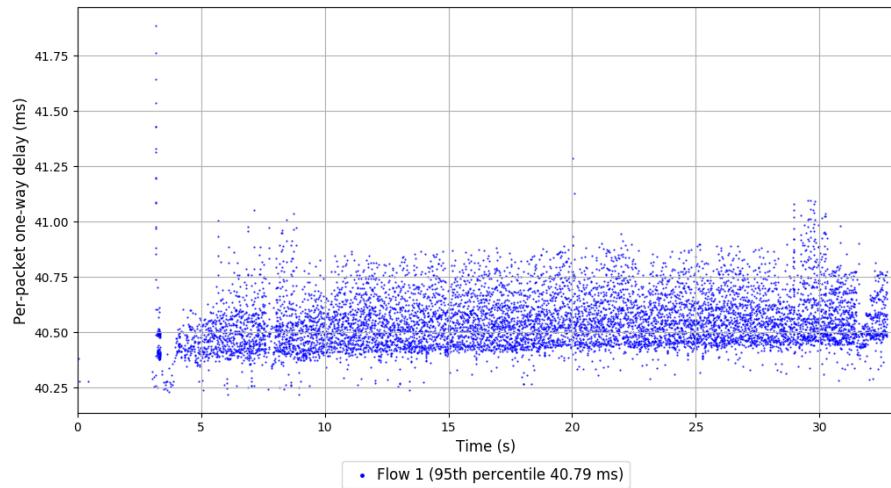
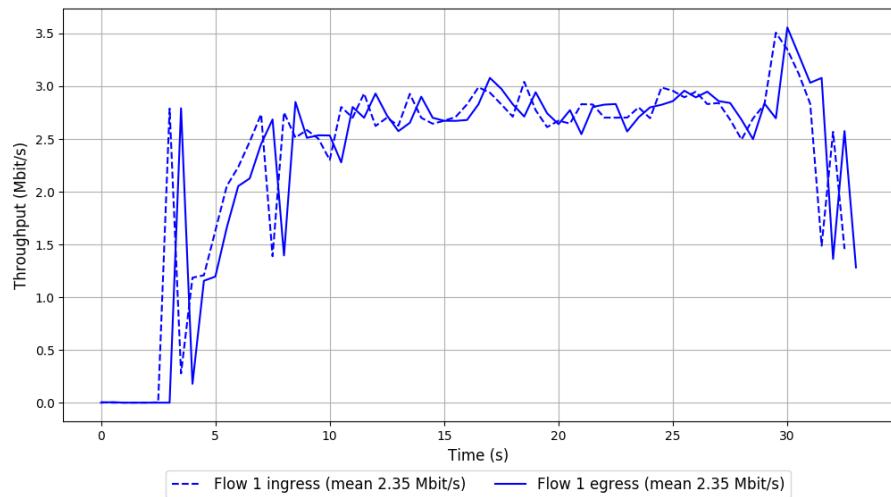


Run 3: Statistics of WebRTC media

```
Start at: 2019-06-27 14:29:42
End at: 2019-06-27 14:30:12
Local clock offset: -2.446 ms
Remote clock offset: -2.241 ms

# Below is generated by plot.py at 2019-06-27 15:42:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 40.792 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 40.792 ms
Loss rate: 0.22%
```

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

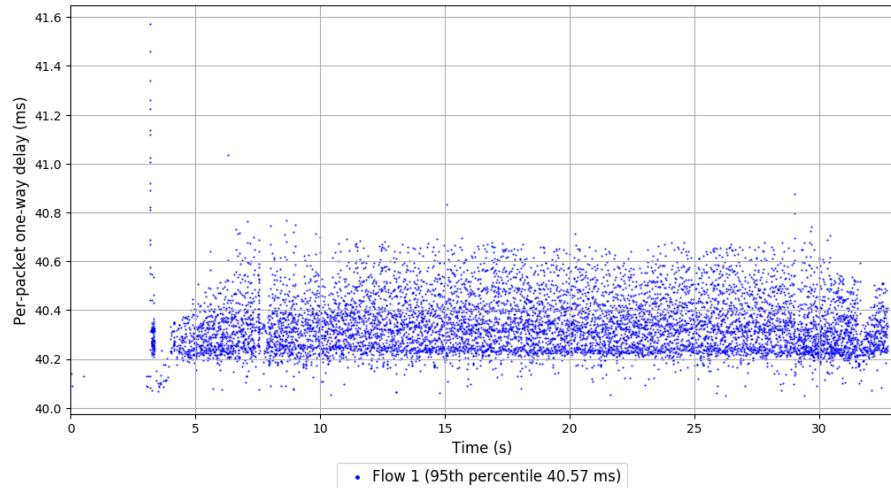
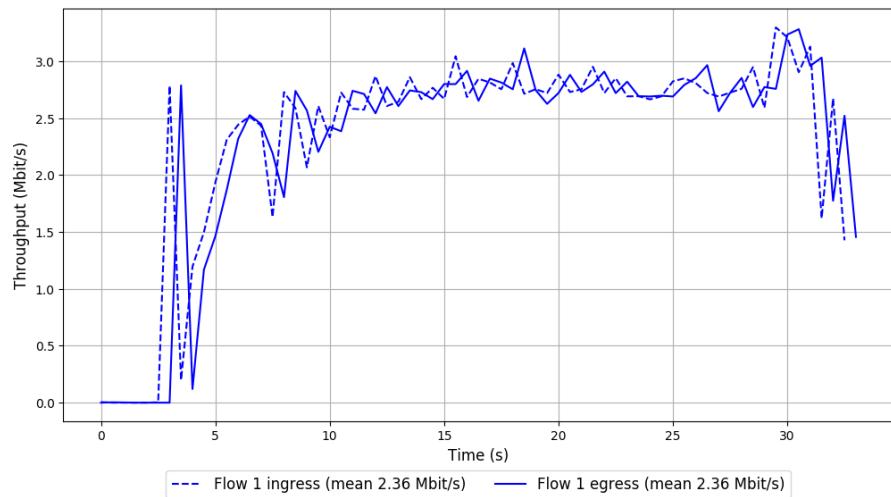


Run 4: Statistics of WebRTC media

```
Start at: 2019-06-27 14:57:24
End at: 2019-06-27 14:57:54
Local clock offset: -3.26 ms
Remote clock offset: -2.204 ms

# Below is generated by plot.py at 2019-06-27 15:42:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 40.572 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 40.572 ms
Loss rate: 0.17%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-06-27 15:23:59
End at: 2019-06-27 15:24:29
Local clock offset: -1.464 ms
Remote clock offset: -2.46 ms

# Below is generated by plot.py at 2019-06-27 15:42:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 40.723 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 40.723 ms
Loss rate: 0.28%
```

Run 5: Report of WebRTC media — Data Link

