

## Pantheon Report

Generated at 2019-10-03 09:25:15 (UTC).  
Data path: Brazil on p4p1 (*remote*) → AWS Brazil 1 on `ens5` (*local*).  
Repeated the test of 24 congestion control schemes 5 times.  
Each test lasted for 30 seconds running 1 flow.  
NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

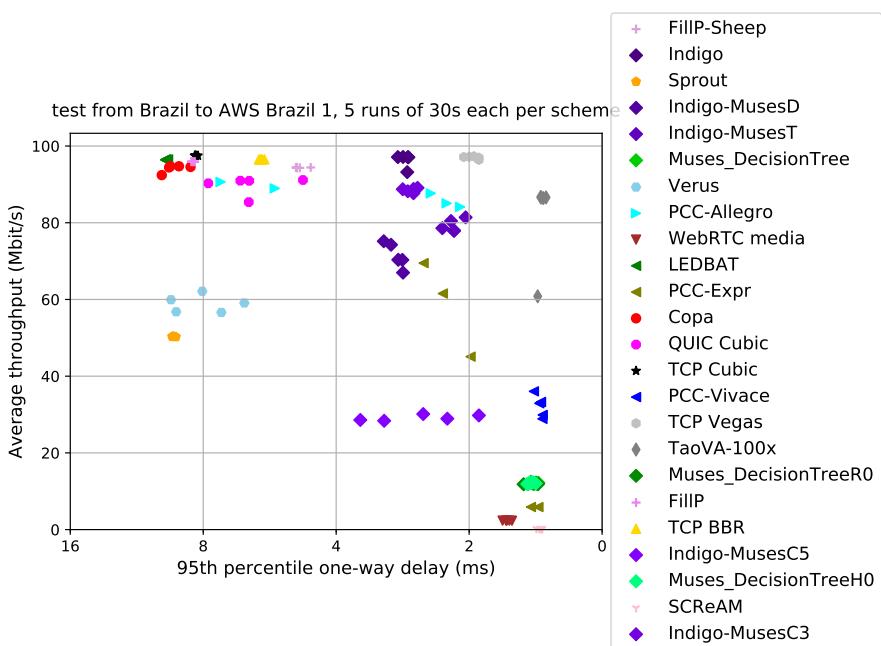
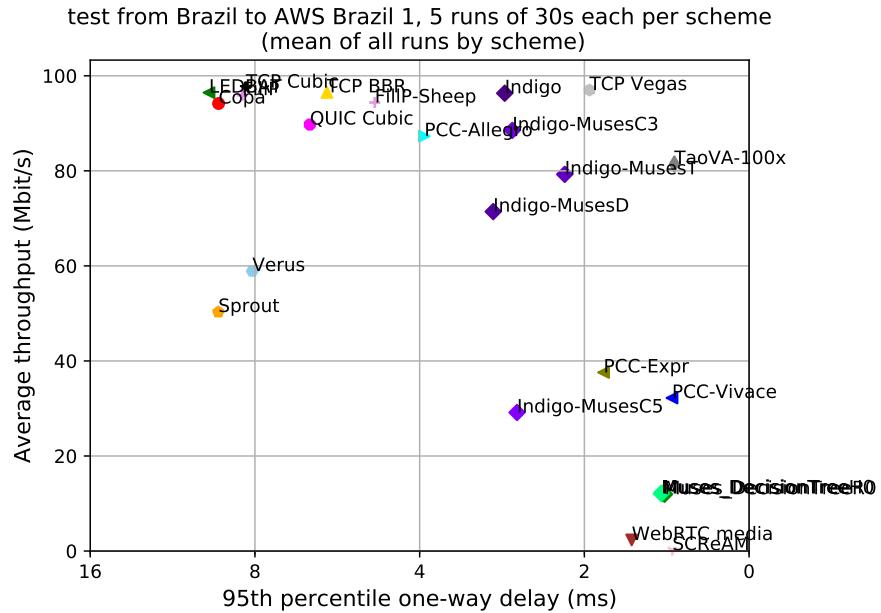
System info:

```
Linux 4.15.0-1050-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 @ de42328552b3776a75a932a94dfaf722537b0ec
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 @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third\_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4  
third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851



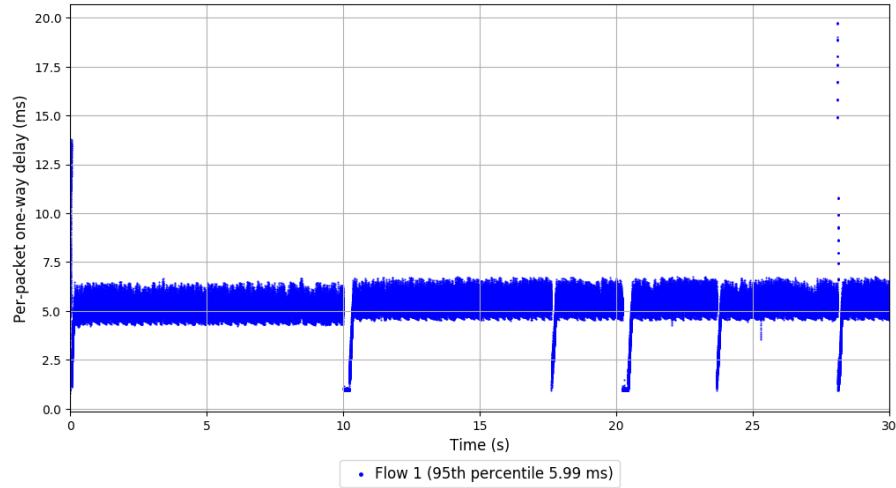
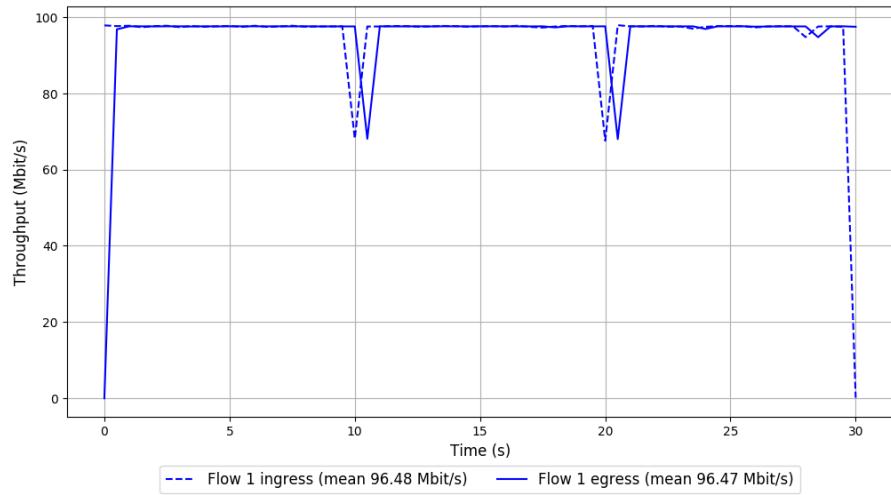
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.51	5.91	0.02
Copa	5	94.17	9.32	0.05
TCP Cubic	5	97.50	8.31	0.06
FillP	5	95.93	8.44	0.01
FillP-Sheep	5	94.38	4.83	0.01
Indigo	5	96.33	2.80	0.02
Indigo-MusesC3	5	88.52	2.71	0.01
Indigo-MusesC5	5	29.15	2.66	0.00
Indigo-MusesD	5	71.42	2.94	0.01
Indigo-MusesT	5	79.26	2.17	0.01
LEDBAT	5	96.45	9.71	0.10
Muses_DecisionTree	5	12.11	1.05	0.01
Muses_DecisionTreeH0	5	12.12	1.07	0.01
Muses_DecisionTreeR0	5	11.95	1.03	0.01
PCC-Allegro	5	87.29	3.92	0.01
PCC-Expr	5	37.58	1.77	0.01
QUIC Cubic	5	89.74	6.35	0.01
SCReAM	5	0.21	0.93	0.05
Sprout	5	50.30	9.33	0.01
TaoVA-100x	5	81.43	0.91	0.01
TCP Vegas	5	96.99	1.94	0.01
Verus	5	58.91	8.09	0.03
PCC-Vivace	5	32.21	0.94	0.01
WebRTC media	5	2.33	1.43	0.01

Run 1: Statistics of TCP BBR

```
Start at: 2019-10-03 07:00:33
End at: 2019-10-03 07:01:03
Local clock offset: -5.638 ms
Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2019-10-03 09:12:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 5.985 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 5.985 ms
Loss rate: 0.02%
```

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

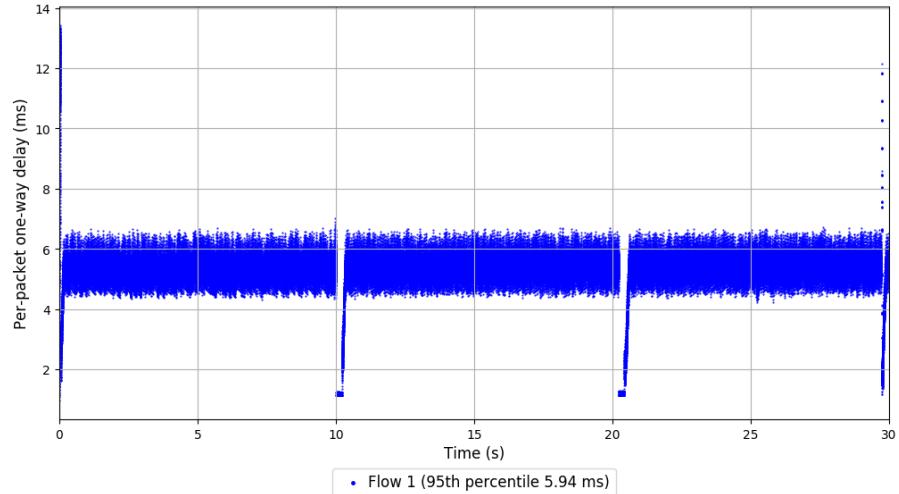
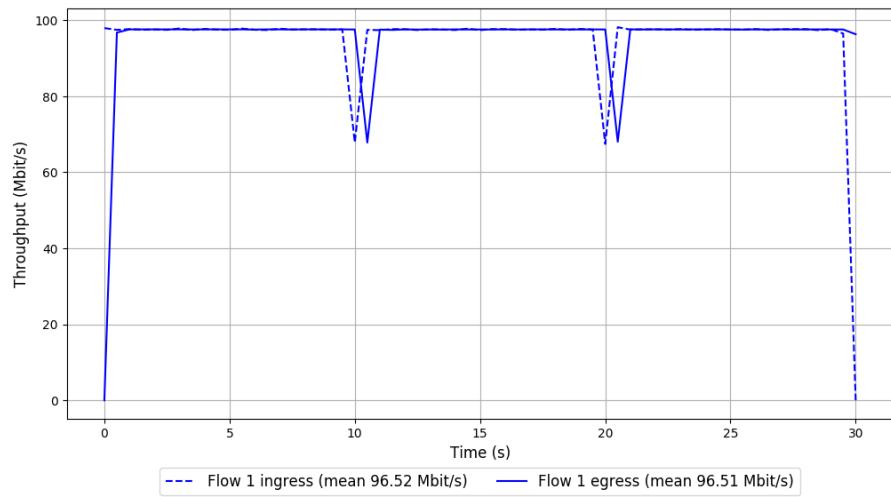


Run 2: Statistics of TCP BBR

```
Start at: 2019-10-03 07:27:22
End at: 2019-10-03 07:27:52
Local clock offset: -5.932 ms
Remote clock offset: 0.369 ms

# Below is generated by plot.py at 2019-10-03 09:12:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 5.943 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 5.943 ms
Loss rate: 0.02%
```

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

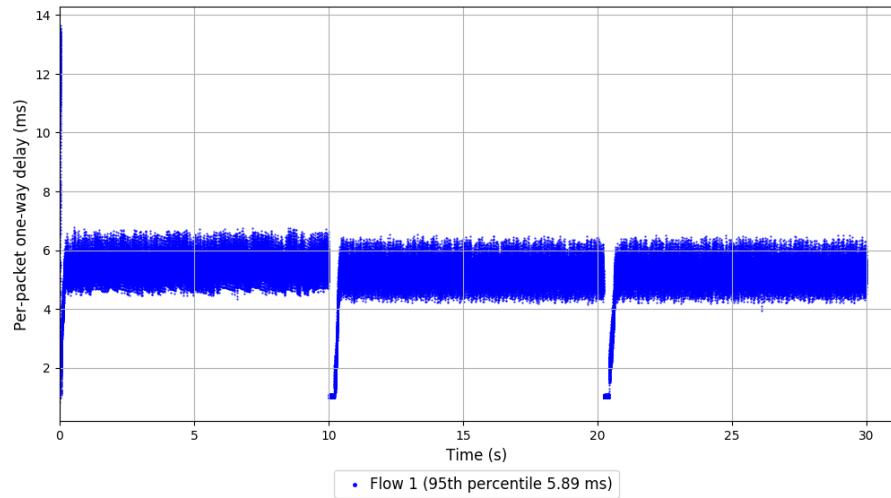
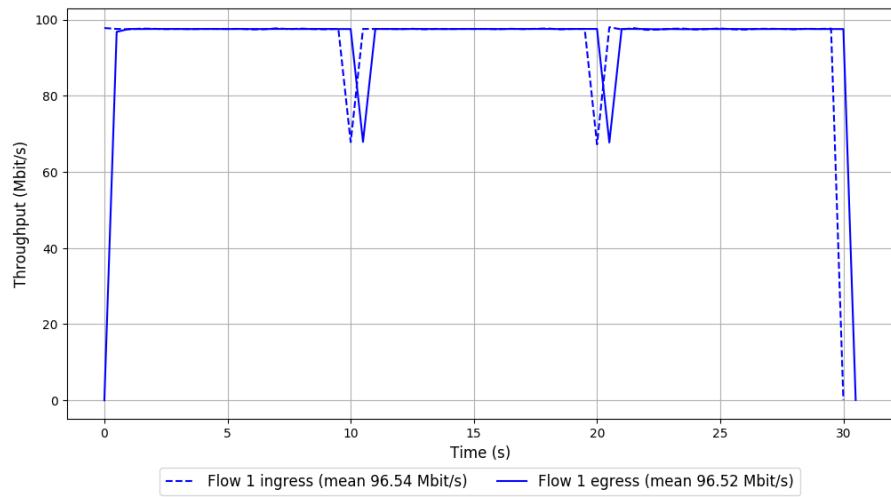


Run 3: Statistics of TCP BBR

```
Start at: 2019-10-03 07:54:09
End at: 2019-10-03 07:54:39
Local clock offset: -6.824 ms
Remote clock offset: 0.722 ms

# Below is generated by plot.py at 2019-10-03 09:12:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 5.895 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 5.895 ms
Loss rate: 0.02%
```

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

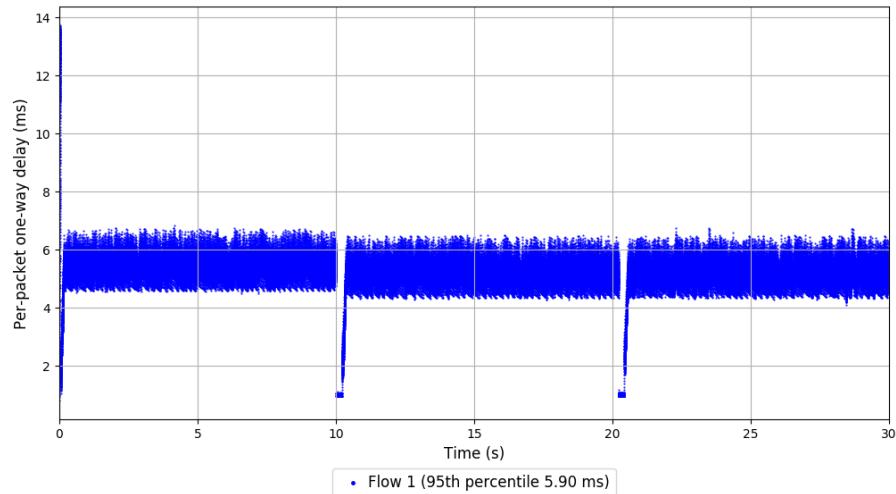
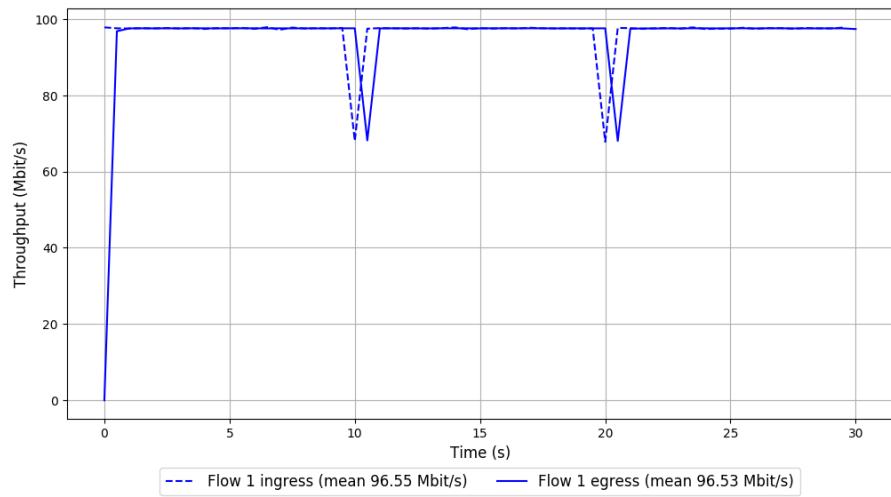


Run 4: Statistics of TCP BBR

```
Start at: 2019-10-03 08:21:01
End at: 2019-10-03 08:21:31
Local clock offset: -6.569 ms
Remote clock offset: 0.861 ms

# Below is generated by plot.py at 2019-10-03 09:12:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 5.901 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 5.901 ms
Loss rate: 0.02%
```

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

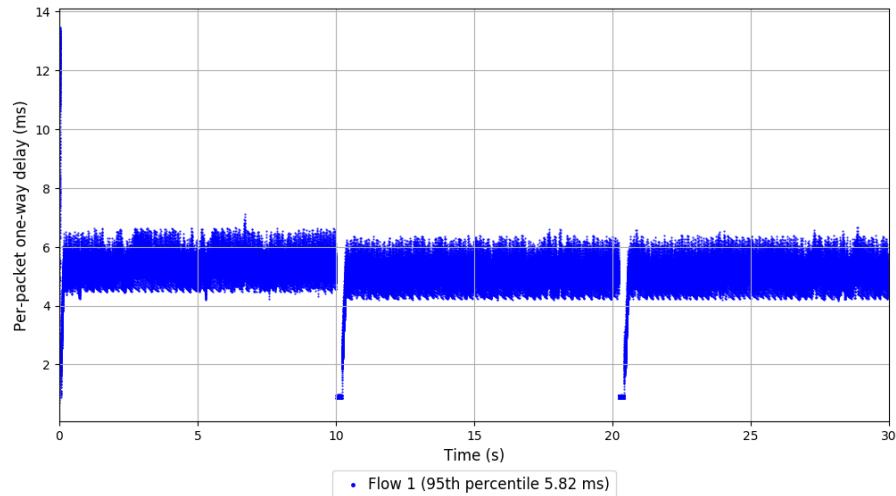
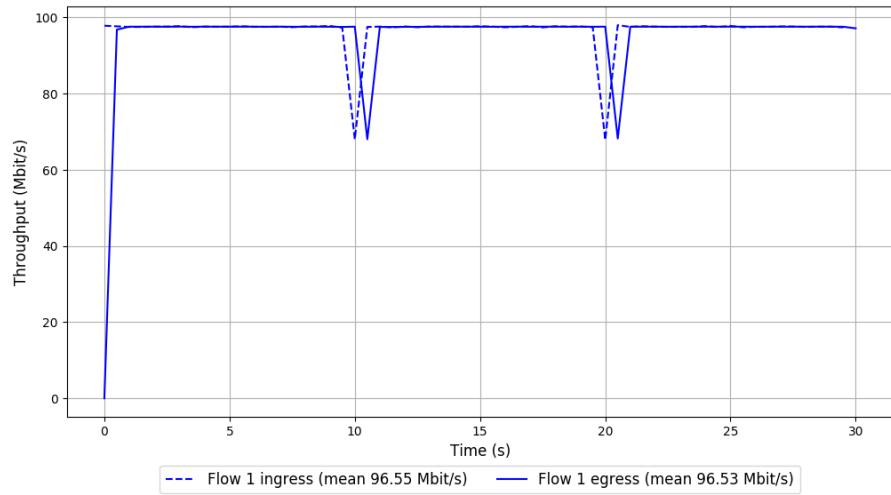


Run 5: Statistics of TCP BBR

```
Start at: 2019-10-03 08:47:55
End at: 2019-10-03 08:48:25
Local clock offset: -5.406 ms
Remote clock offset: 0.828 ms

# Below is generated by plot.py at 2019-10-03 09:12:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 5.815 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 5.815 ms
Loss rate: 0.02%
```

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

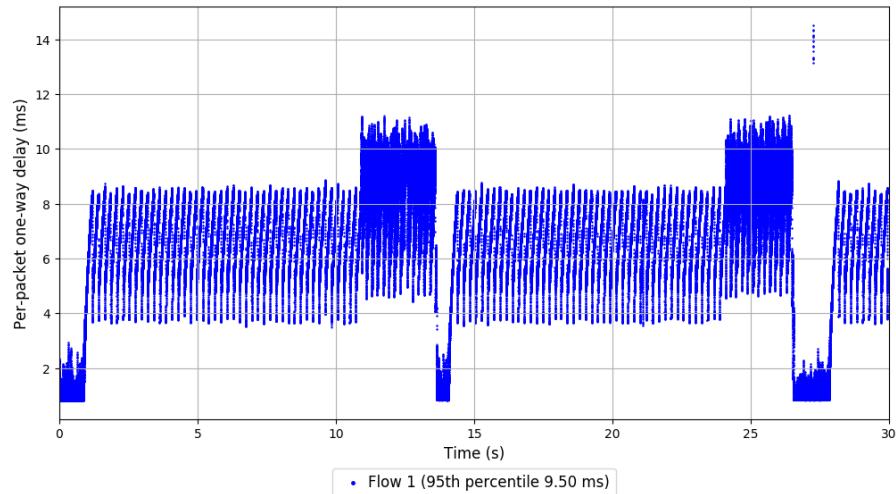
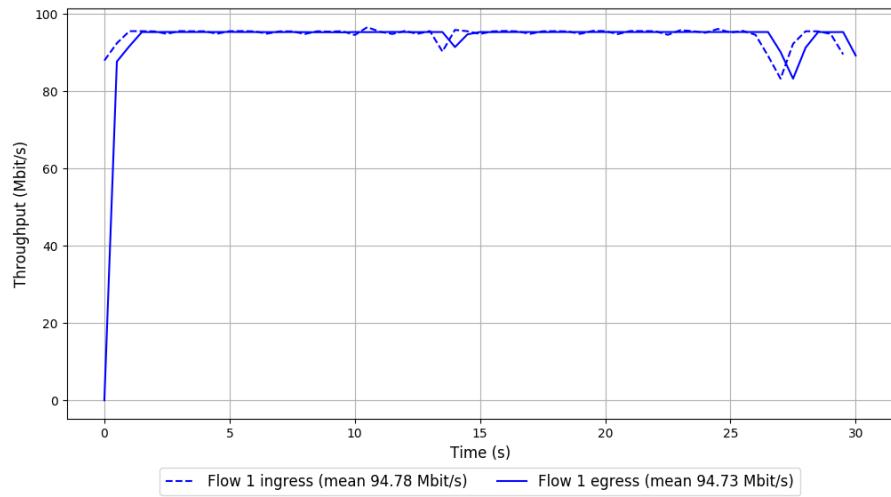


Run 1: Statistics of Copa

```
Start at: 2019-10-03 07:02:47
End at: 2019-10-03 07:03:17
Local clock offset: -5.592 ms
Remote clock offset: 0.305 ms

# Below is generated by plot.py at 2019-10-03 09:13:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.73 Mbit/s
95th percentile per-packet one-way delay: 9.500 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 94.73 Mbit/s
95th percentile per-packet one-way delay: 9.500 ms
Loss rate: 0.06%
```

### Run 1: Report of Copa — Data Link

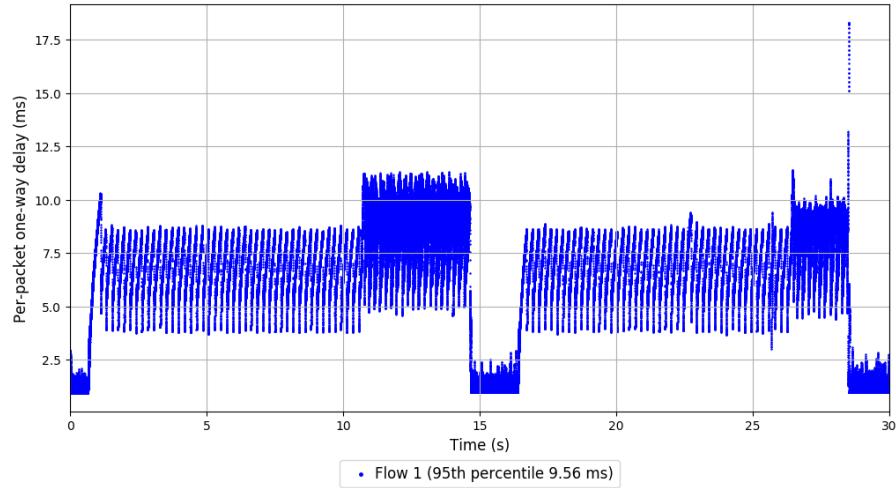
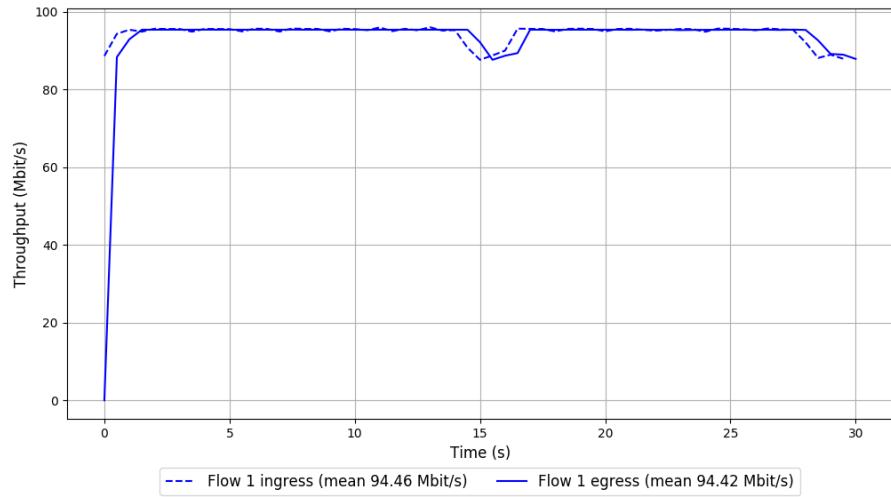


Run 2: Statistics of Copa

```
Start at: 2019-10-03 07:29:36
End at: 2019-10-03 07:30:06
Local clock offset: -6.091 ms
Remote clock offset: 0.548 ms

# Below is generated by plot.py at 2019-10-03 09:13:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 9.556 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 9.556 ms
Loss rate: 0.04%
```

## Run 2: Report of Copa — Data Link

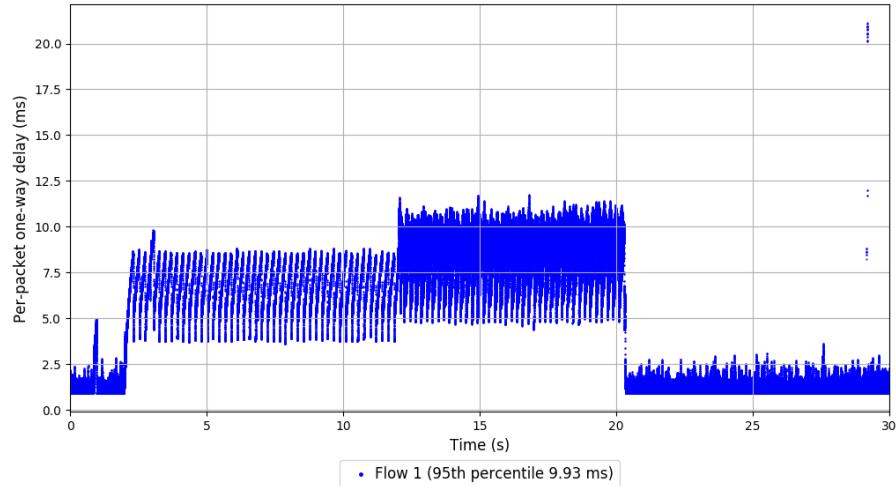
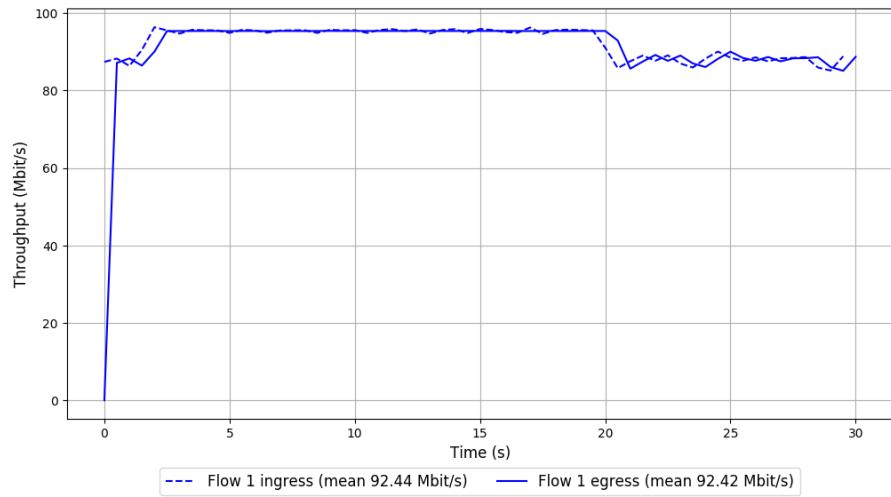


Run 3: Statistics of Copa

```
Start at: 2019-10-03 07:56:23
End at: 2019-10-03 07:56:53
Local clock offset: -6.756 ms
Remote clock offset: 0.786 ms

# Below is generated by plot.py at 2019-10-03 09:13:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 9.930 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 9.930 ms
Loss rate: 0.03%
```

### Run 3: Report of Copa — Data Link

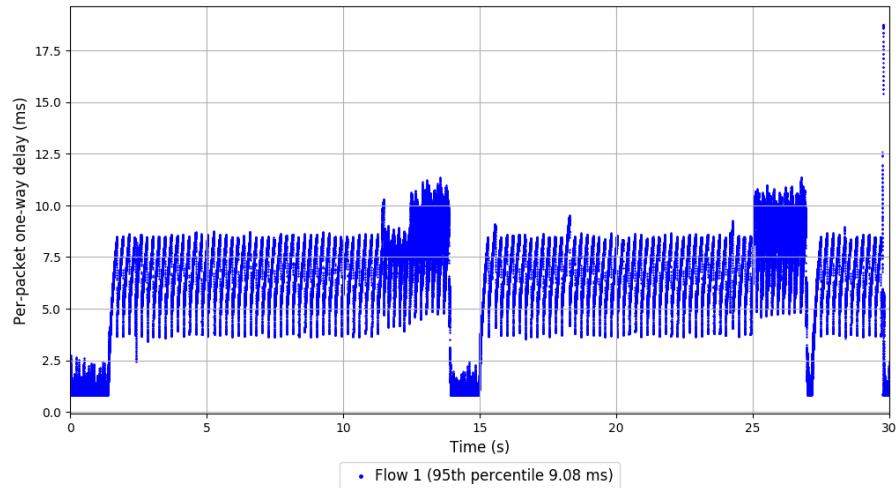
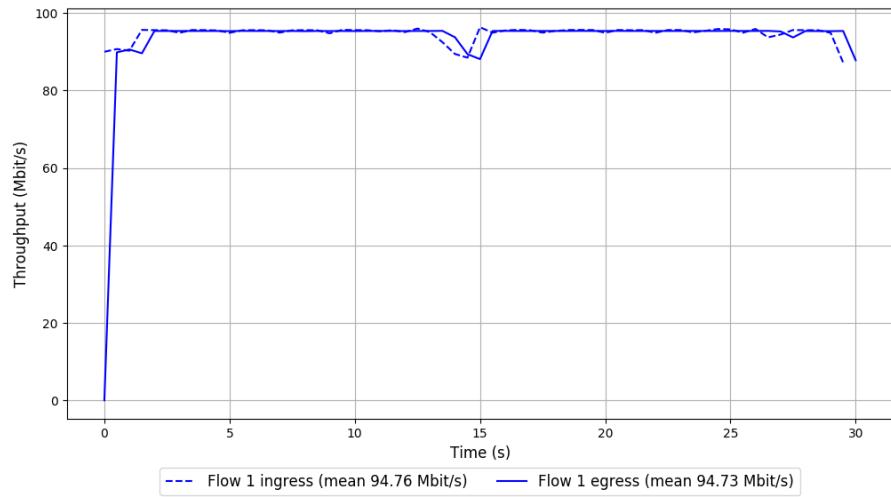


Run 4: Statistics of Copa

```
Start at: 2019-10-03 08:23:16
End at: 2019-10-03 08:23:46
Local clock offset: -6.653 ms
Remote clock offset: 0.899 ms

# Below is generated by plot.py at 2019-10-03 09:14:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.73 Mbit/s
95th percentile per-packet one-way delay: 9.078 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 94.73 Mbit/s
95th percentile per-packet one-way delay: 9.078 ms
Loss rate: 0.05%
```

### Run 4: Report of Copa — Data Link

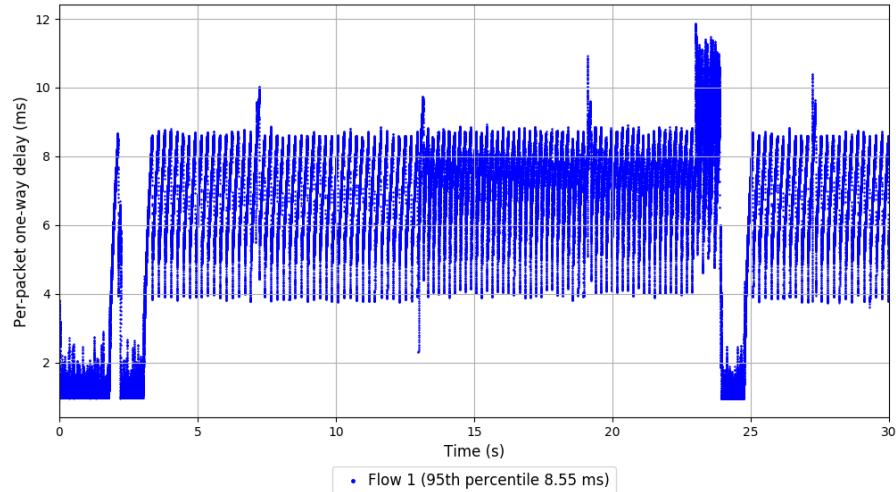
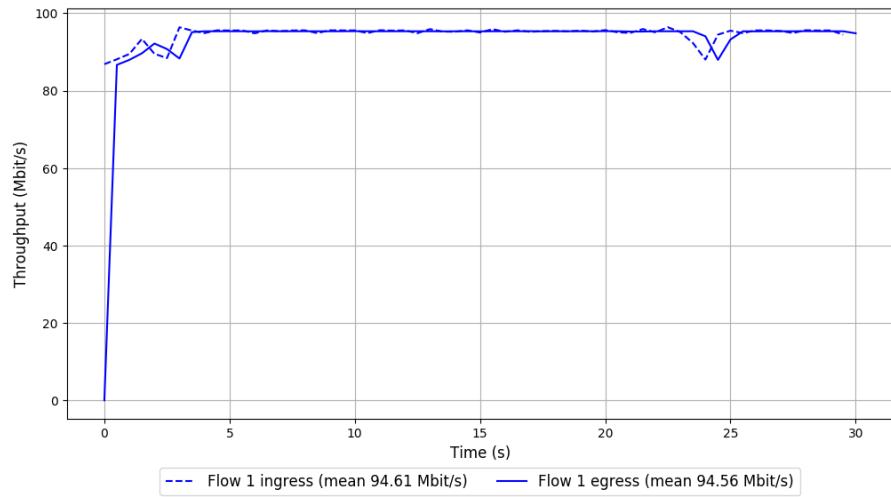


Run 5: Statistics of Copa

```
Start at: 2019-10-03 08:50:09
End at: 2019-10-03 08:50:39
Local clock offset: -5.316 ms
Remote clock offset: 0.758 ms

# Below is generated by plot.py at 2019-10-03 09:14:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.56 Mbit/s
95th percentile per-packet one-way delay: 8.547 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 94.56 Mbit/s
95th percentile per-packet one-way delay: 8.547 ms
Loss rate: 0.06%
```

### Run 5: Report of Copa — Data Link

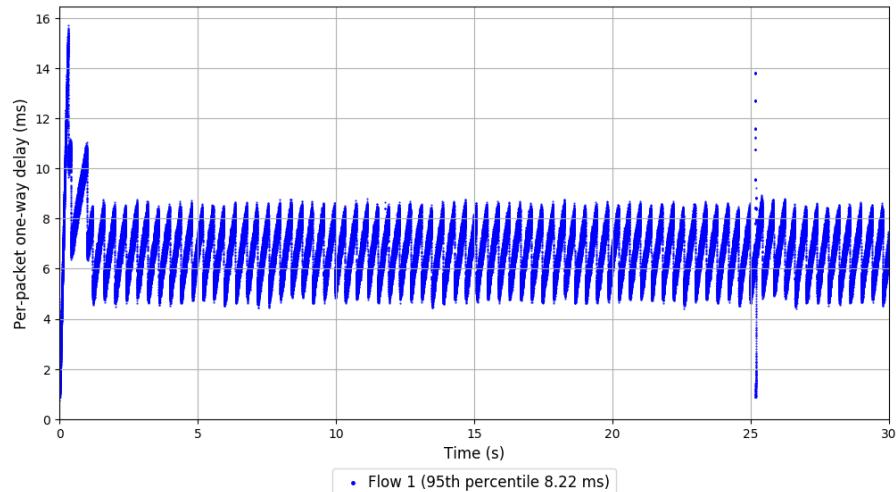
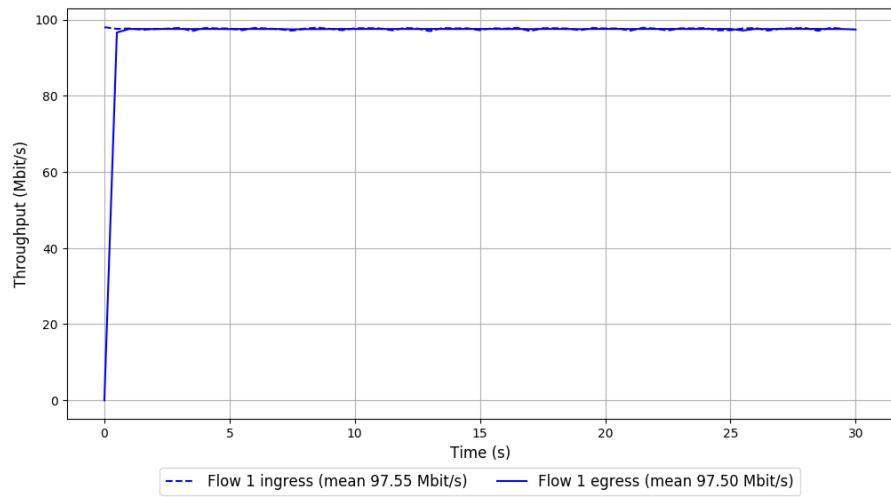


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-10-03 07:09:36
End at: 2019-10-03 07:10:06
Local clock offset: -5.639 ms
Remote clock offset: 0.348 ms

# Below is generated by plot.py at 2019-10-03 09:14:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 8.222 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 8.222 ms
Loss rate: 0.06%
```

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

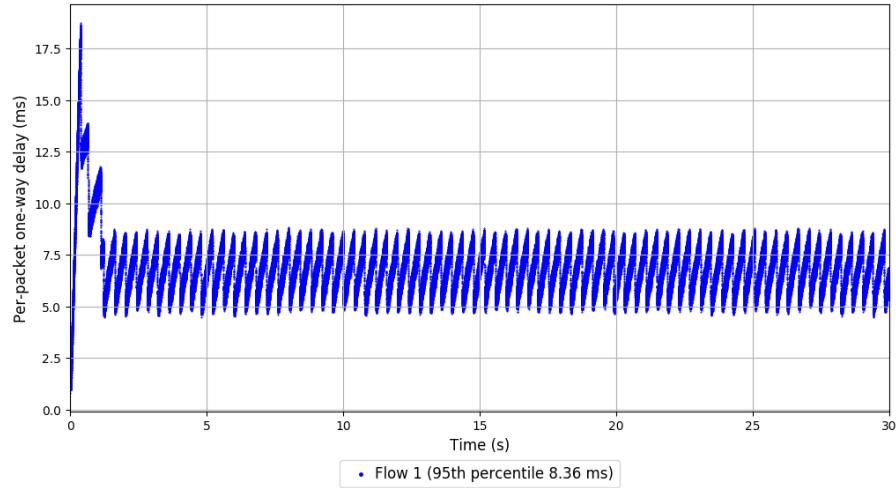
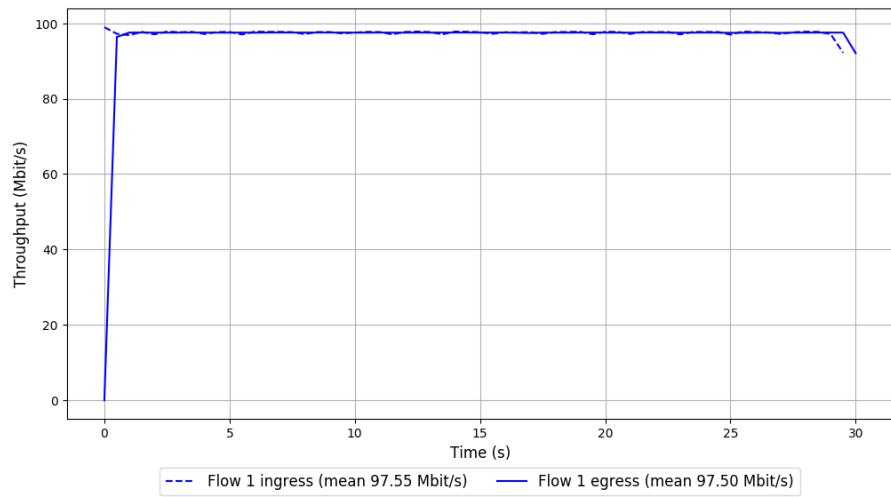


Run 2: Statistics of TCP Cubic

```
Start at: 2019-10-03 07:36:23
End at: 2019-10-03 07:36:53
Local clock offset: -6.419 ms
Remote clock offset: 0.609 ms

# Below is generated by plot.py at 2019-10-03 09:14:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 8.364 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 8.364 ms
Loss rate: 0.05%
```

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

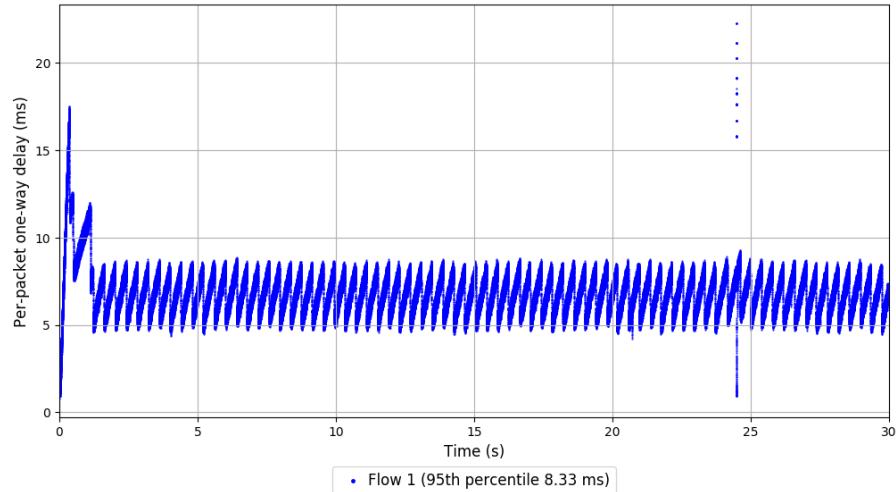
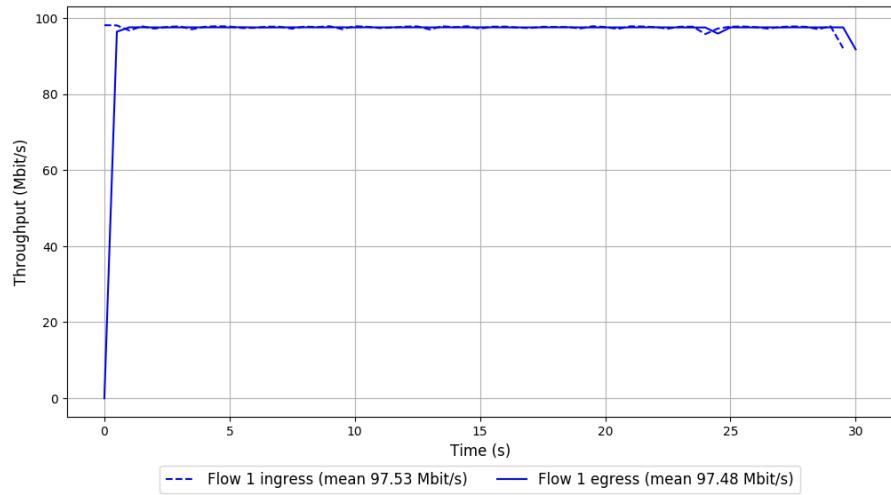


Run 3: Statistics of TCP Cubic

```
Start at: 2019-10-03 08:03:12
End at: 2019-10-03 08:03:42
Local clock offset: -6.613 ms
Remote clock offset: 0.836 ms

# Below is generated by plot.py at 2019-10-03 09:14:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 8.328 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 8.328 ms
Loss rate: 0.06%
```

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

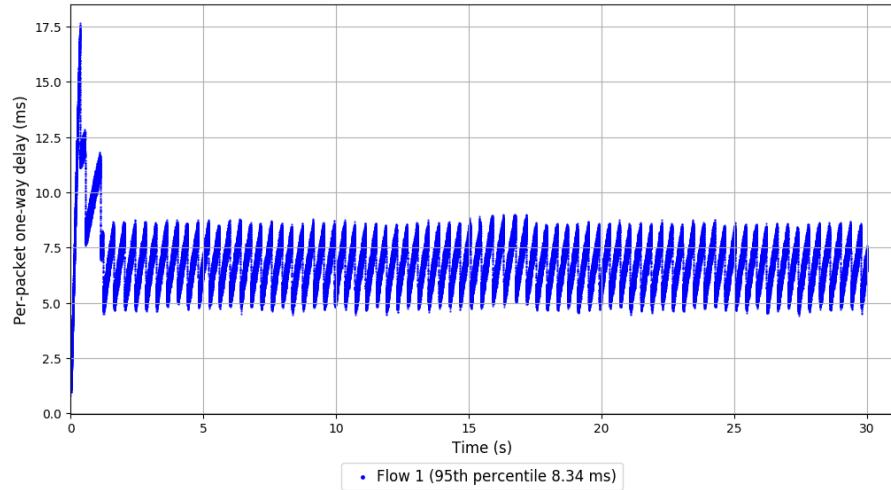
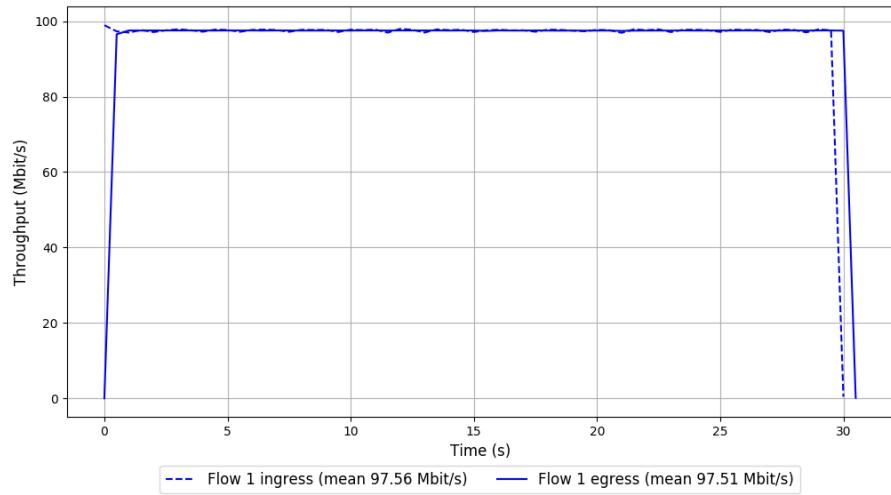


Run 4: Statistics of TCP Cubic

```
Start at: 2019-10-03 08:30:05
End at: 2019-10-03 08:30:35
Local clock offset: -6.099 ms
Remote clock offset: 0.742 ms

# Below is generated by plot.py at 2019-10-03 09:14:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 8.339 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 8.339 ms
Loss rate: 0.06%
```

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

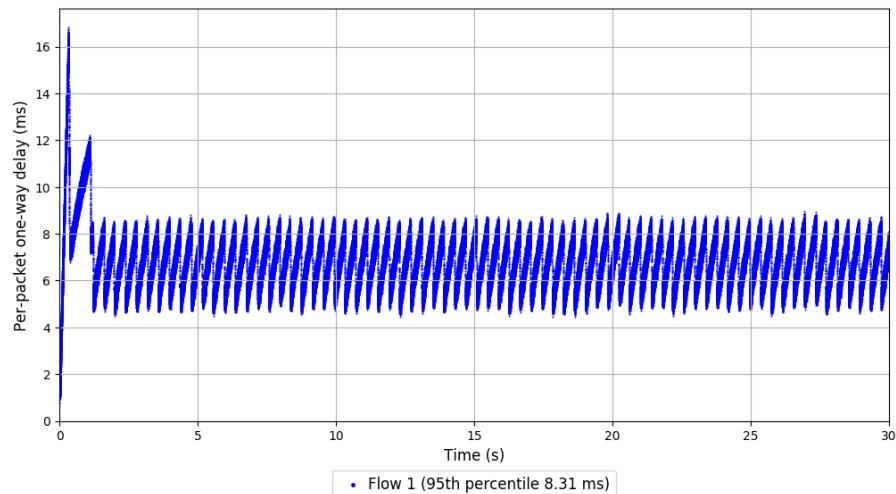
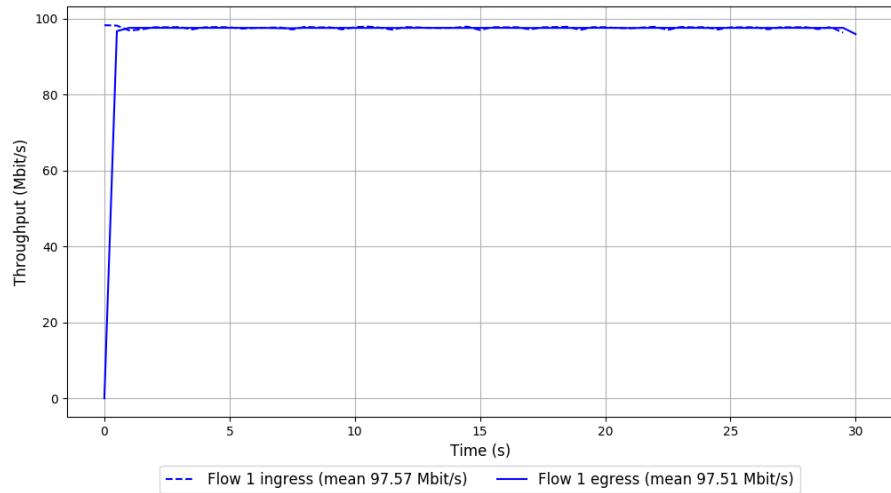


Run 5: Statistics of TCP Cubic

```
Start at: 2019-10-03 08:56:58
End at: 2019-10-03 08:57:28
Local clock offset: -5.573 ms
Remote clock offset: 0.8 ms

# Below is generated by plot.py at 2019-10-03 09:14:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 8.306 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 8.306 ms
Loss rate: 0.06%
```

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

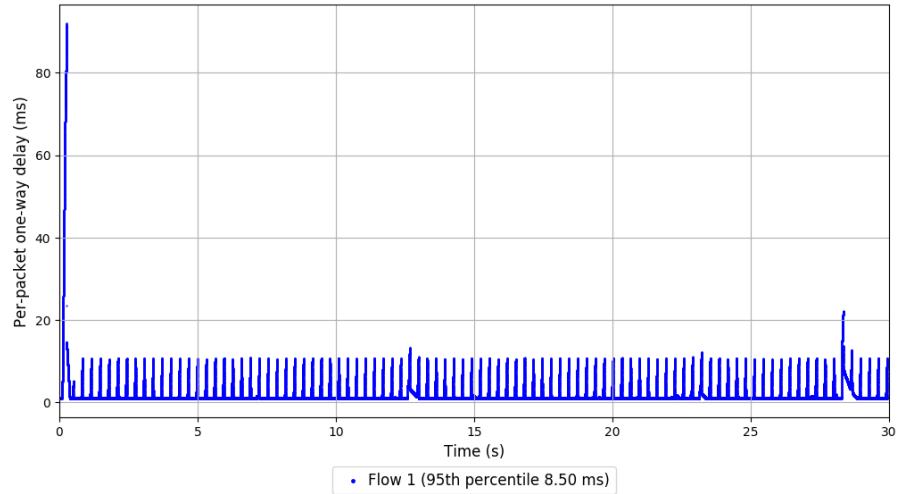
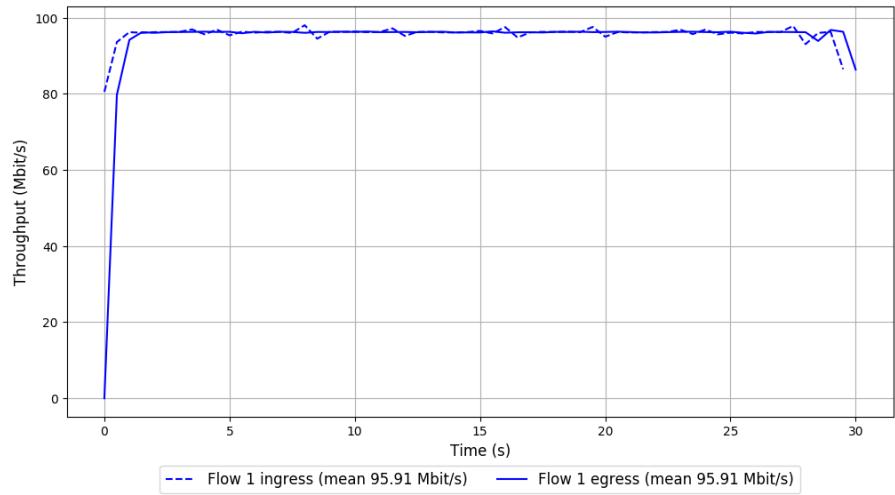


Run 1: Statistics of FillP

```
Start at: 2019-10-03 07:11:49
End at: 2019-10-03 07:12:19
Local clock offset: -5.646 ms
Remote clock offset: 0.249 ms

# Below is generated by plot.py at 2019-10-03 09:15:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 8.502 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 8.502 ms
Loss rate: 0.01%
```

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

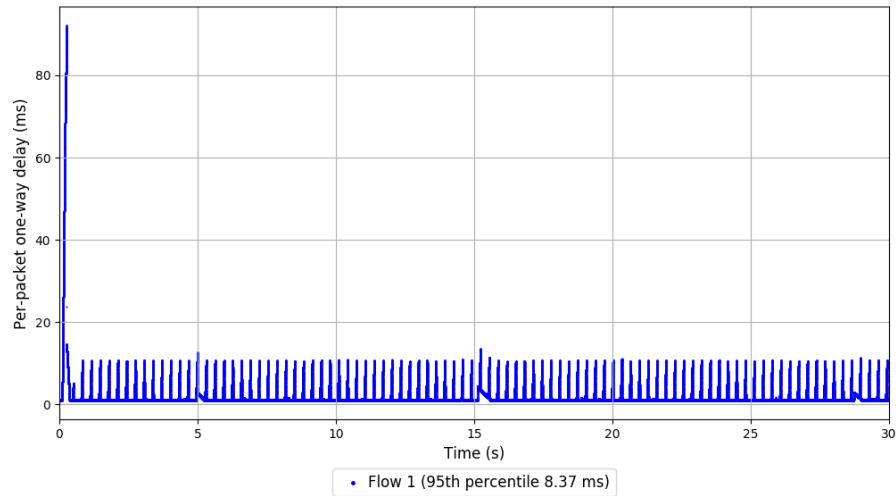
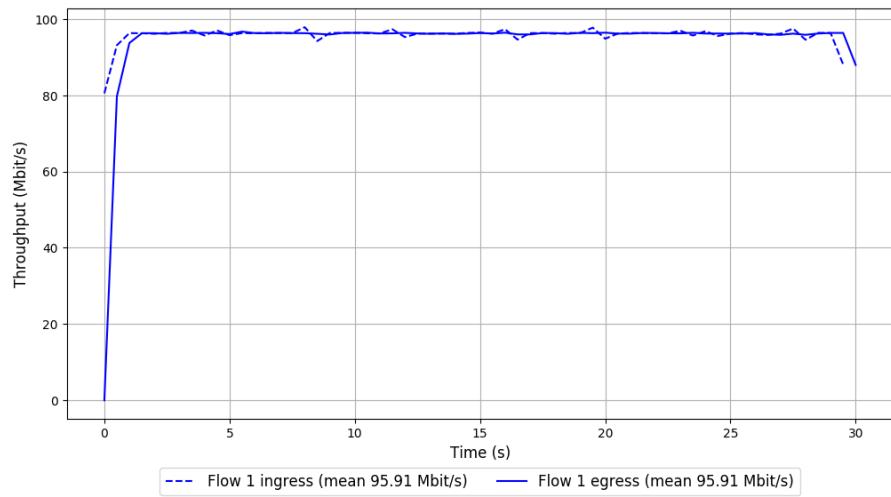


Run 2: Statistics of FillP

```
Start at: 2019-10-03 07:38:36
End at: 2019-10-03 07:39:06
Local clock offset: -6.481 ms
Remote clock offset: 0.638 ms

# Below is generated by plot.py at 2019-10-03 09:15:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 8.369 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 8.369 ms
Loss rate: 0.01%
```

## Run 2: Report of FillP — Data Link

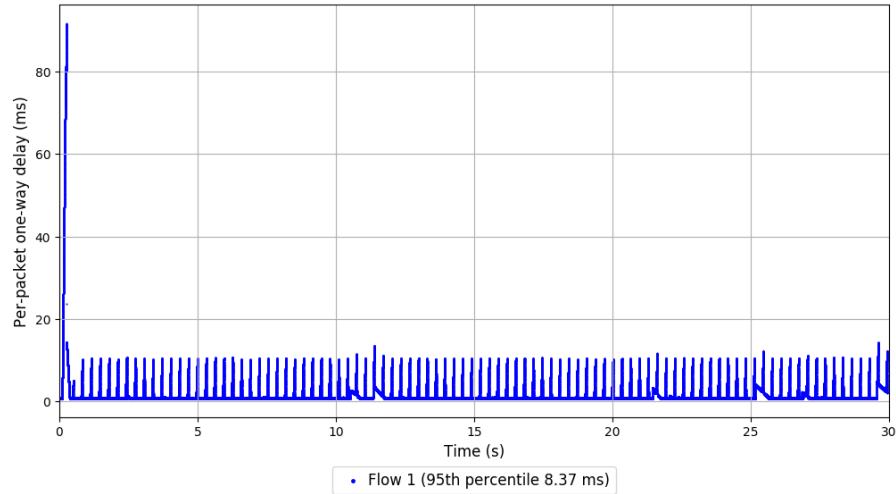
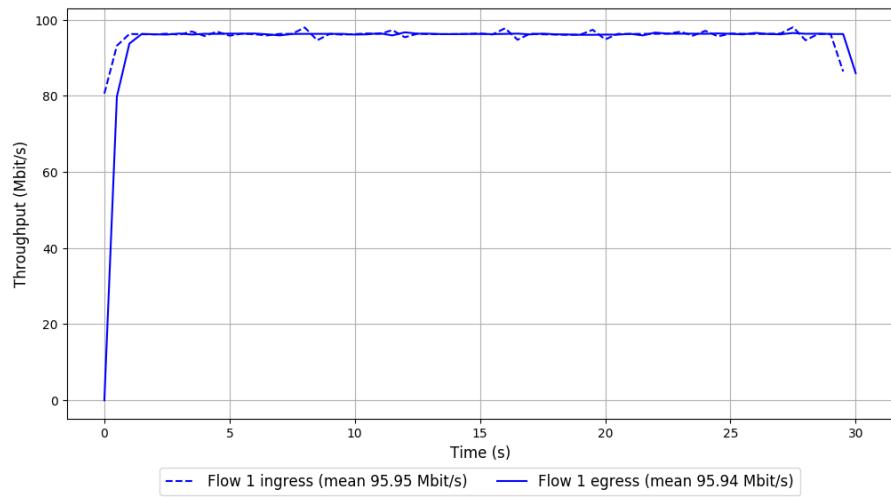


```
Run 3: Statistics of FillP
```

```
Start at: 2019-10-03 08:05:25
End at: 2019-10-03 08:05:55
Local clock offset: -6.587 ms
Remote clock offset: 0.926 ms

# Below is generated by plot.py at 2019-10-03 09:15:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 8.369 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 8.369 ms
Loss rate: 0.01%
```

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

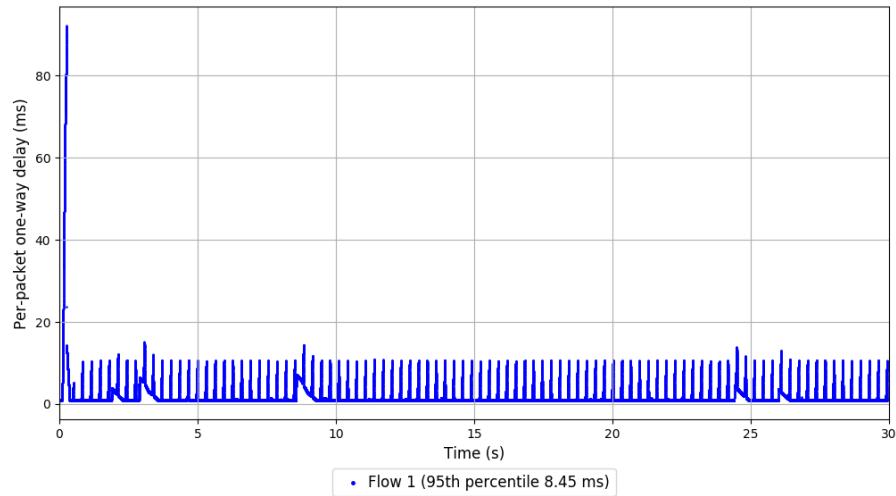
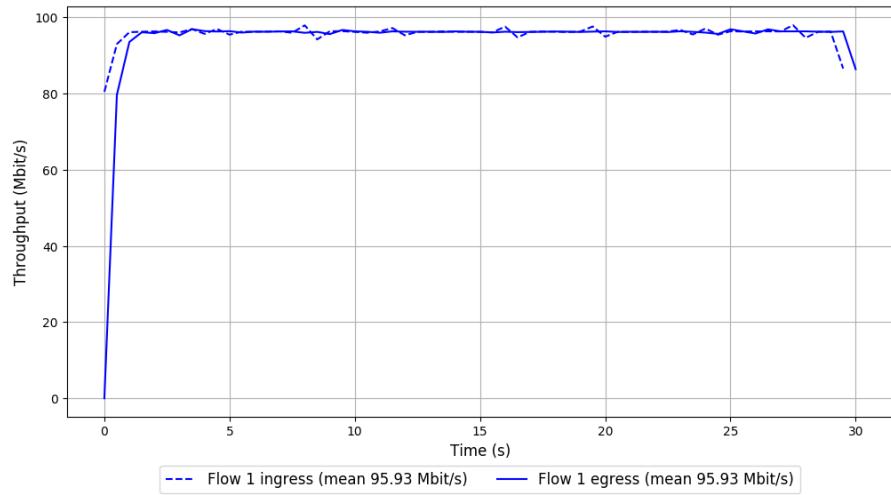


Run 4: Statistics of FillP

```
Start at: 2019-10-03 08:32:18
End at: 2019-10-03 08:32:48
Local clock offset: -5.901 ms
Remote clock offset: 0.852 ms

# Below is generated by plot.py at 2019-10-03 09:15:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 8.452 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 8.452 ms
Loss rate: 0.01%
```

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

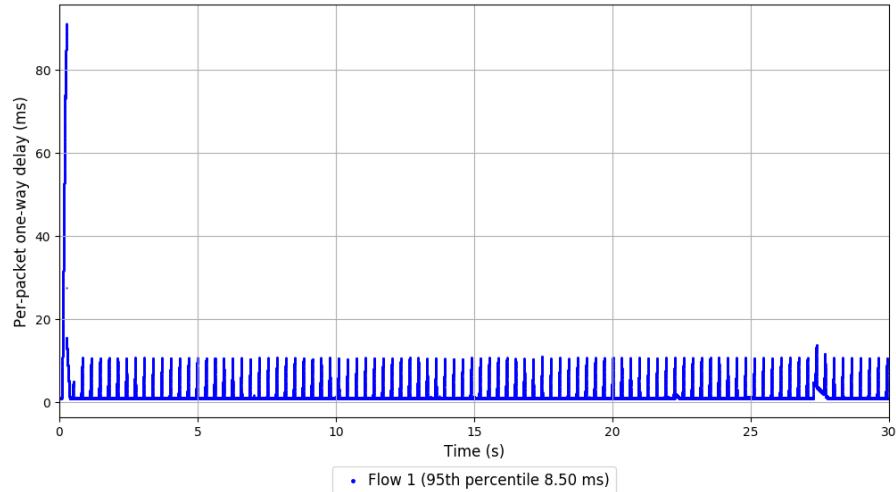
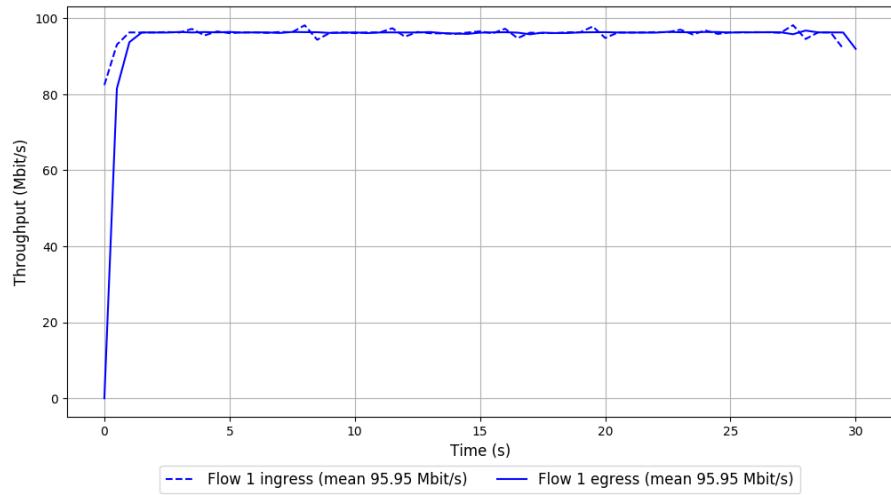


```
Run 5: Statistics of FillP
```

```
Start at: 2019-10-03 08:59:11
End at: 2019-10-03 08:59:41
Local clock offset: -5.724 ms
Remote clock offset: 0.697 ms

# Below is generated by plot.py at 2019-10-03 09:16:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 8.501 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 8.501 ms
Loss rate: 0.01%
```

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

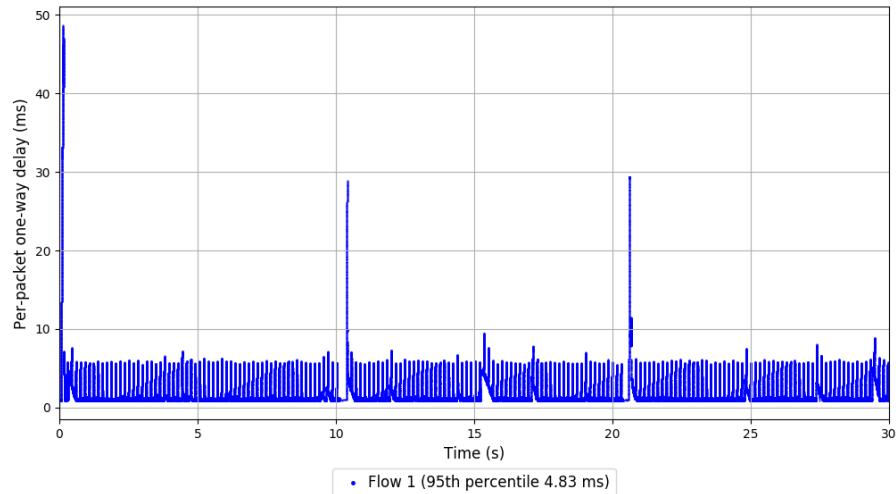
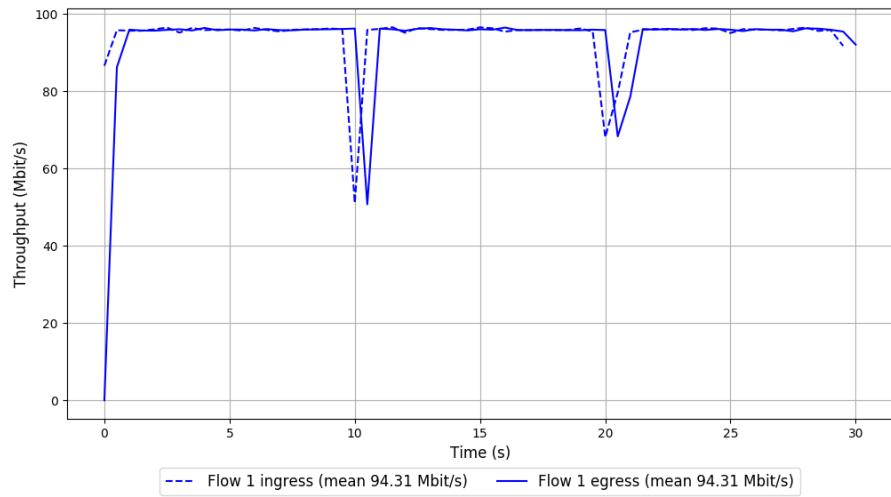


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-10-03 07:21:46
End at: 2019-10-03 07:22:16
Local clock offset: -5.673 ms
Remote clock offset: 0.366 ms

# Below is generated by plot.py at 2019-10-03 09:16:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 4.835 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 4.835 ms
Loss rate: 0.01%
```

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

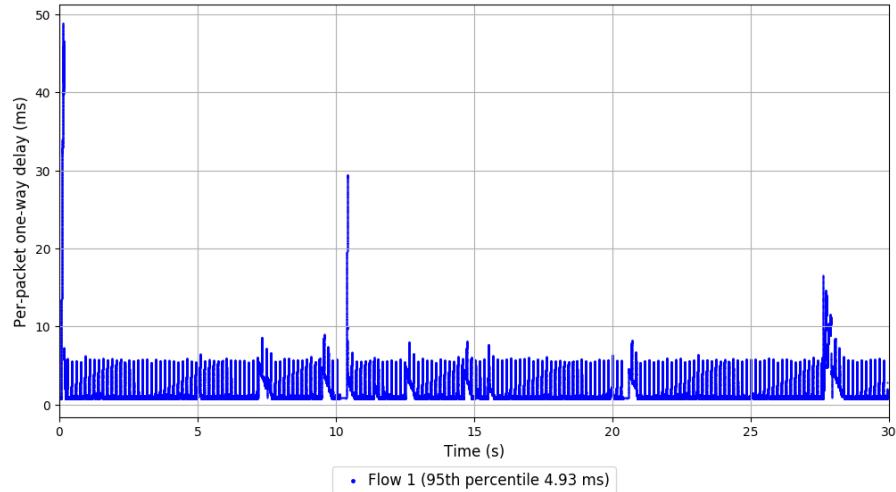
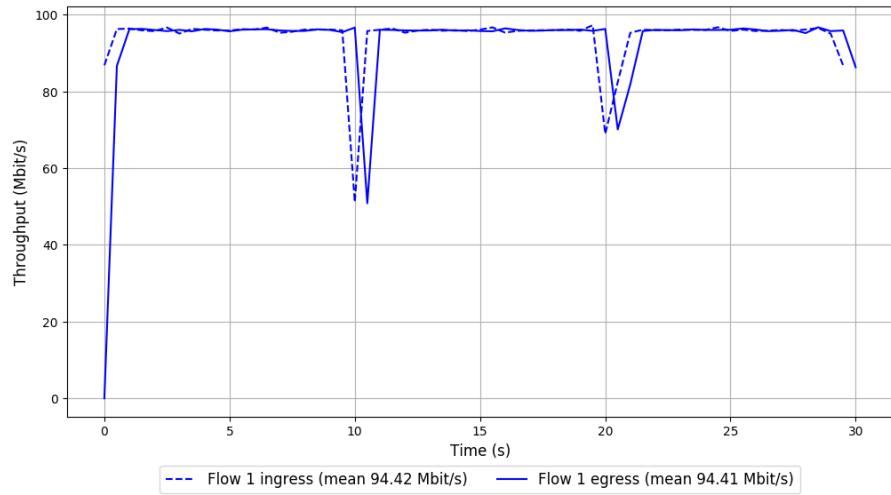


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-10-03 07:48:34
End at: 2019-10-03 07:49:04
Local clock offset: -6.722 ms
Remote clock offset: 0.757 ms

# Below is generated by plot.py at 2019-10-03 09:16:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.41 Mbit/s
95th percentile per-packet one-way delay: 4.933 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.41 Mbit/s
95th percentile per-packet one-way delay: 4.933 ms
Loss rate: 0.01%
```

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

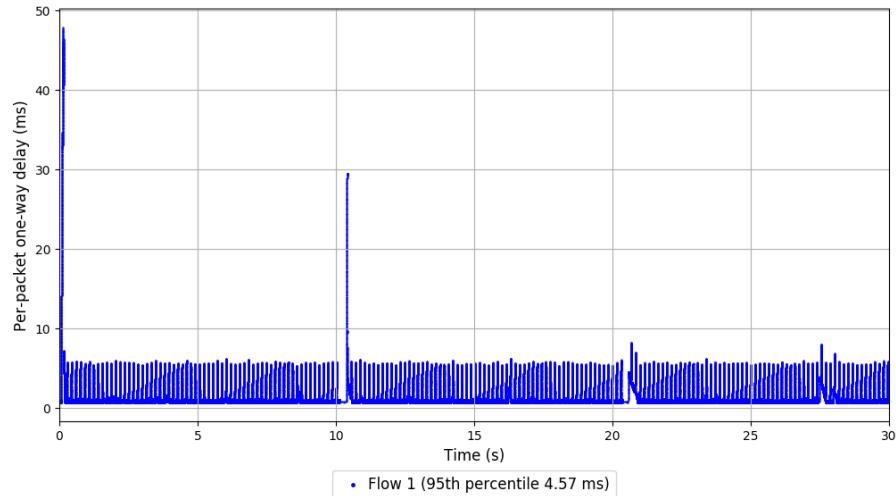
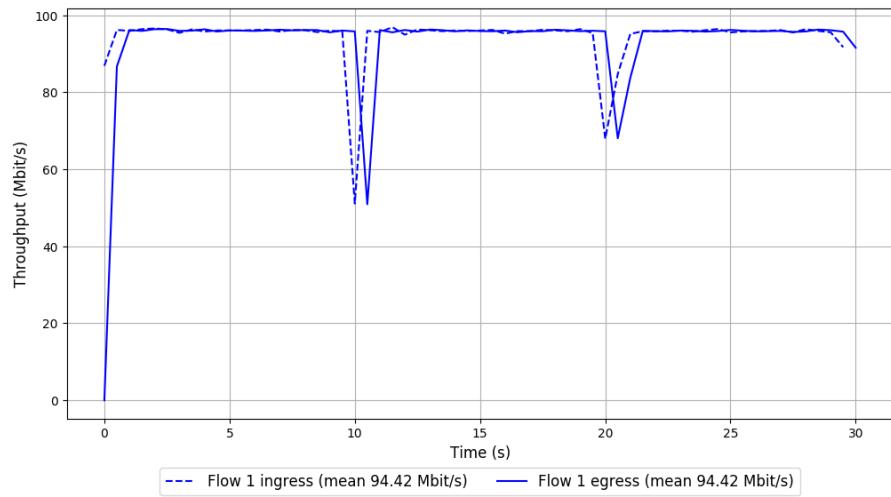


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-10-03 08:15:23
End at: 2019-10-03 08:15:53
Local clock offset: -6.617 ms
Remote clock offset: 0.885 ms

# Below is generated by plot.py at 2019-10-03 09:16:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 4.568 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 4.568 ms
Loss rate: 0.01%
```

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

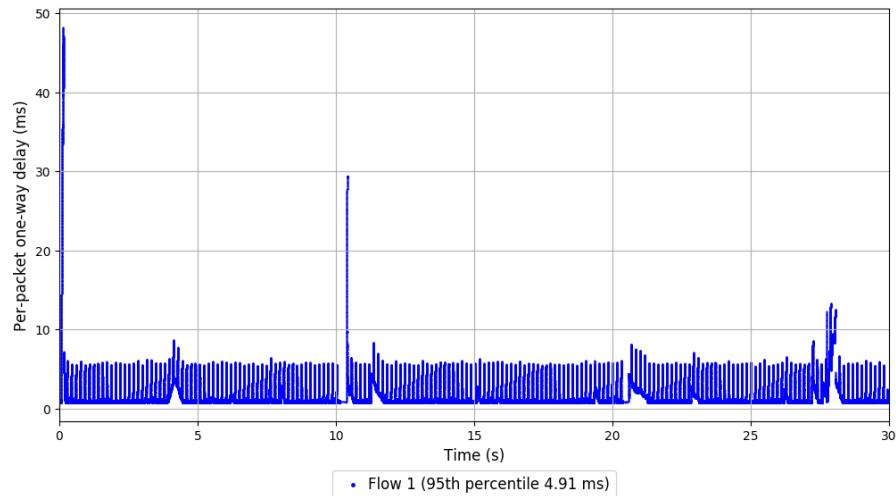
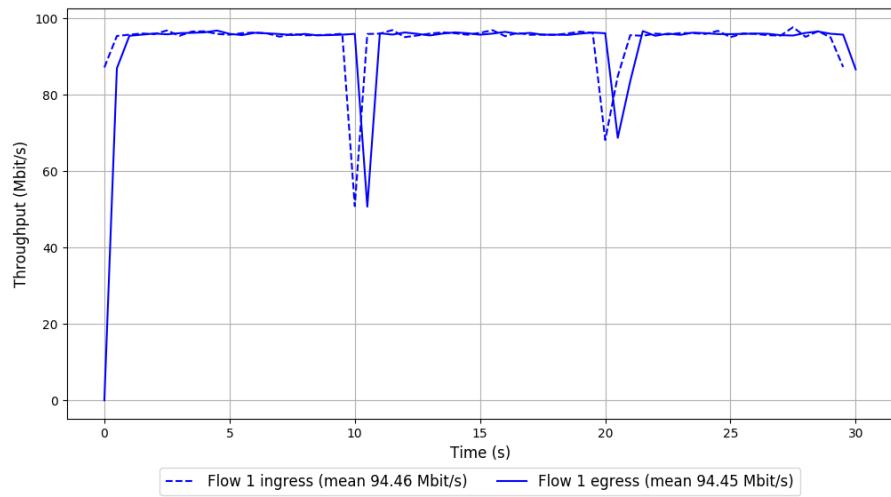


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-10-03 08:42:16
End at: 2019-10-03 08:42:46
Local clock offset: -5.48 ms
Remote clock offset: 0.808 ms

# Below is generated by plot.py at 2019-10-03 09:16:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 4.912 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 4.912 ms
Loss rate: 0.01%
```

Run 4: Report of FillP-Sheep — Data Link

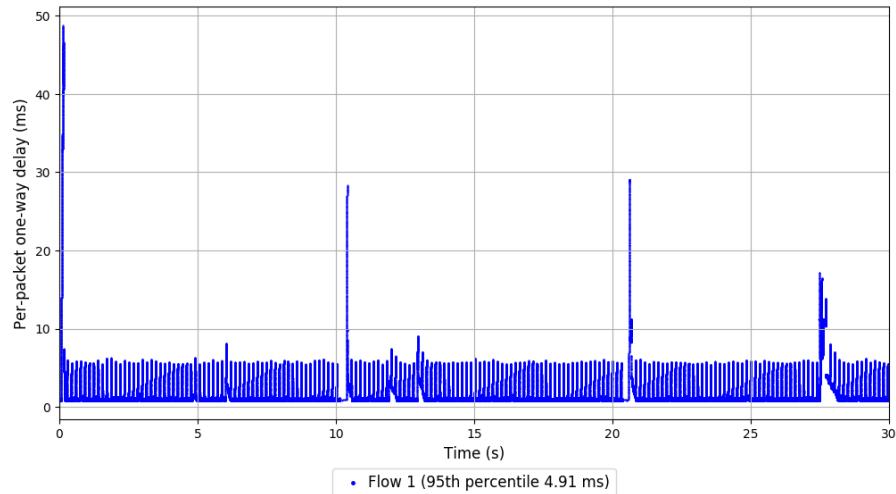
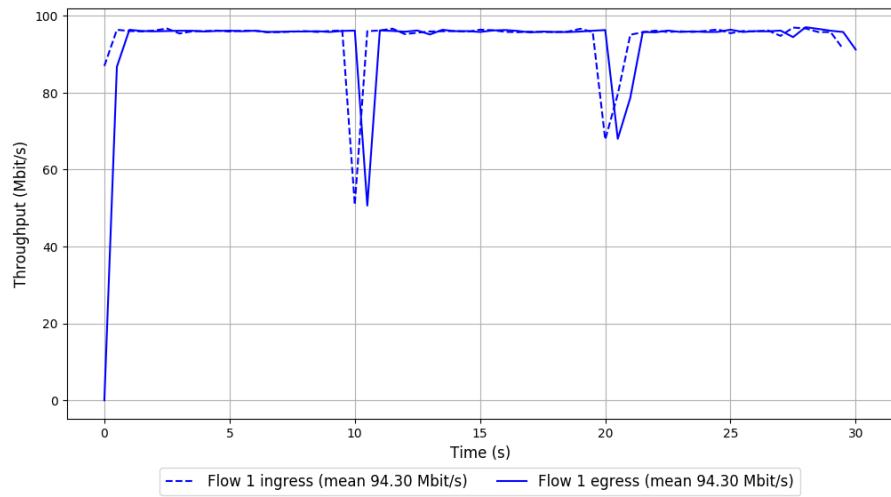


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-10-03 09:09:09
End at: 2019-10-03 09:09:39
Local clock offset: -6.322 ms
Remote clock offset: 0.652 ms

# Below is generated by plot.py at 2019-10-03 09:16:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 4.909 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 4.909 ms
Loss rate: 0.01%
```

Run 5: Report of FillP-Sheep — Data Link

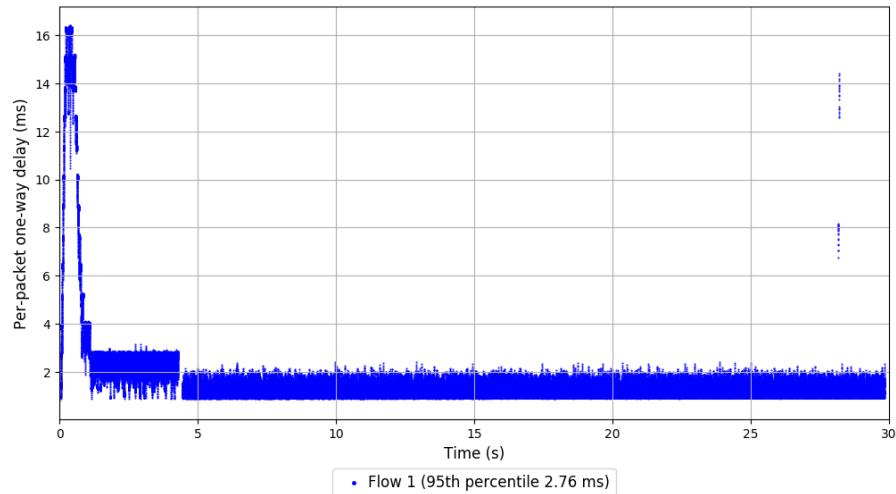
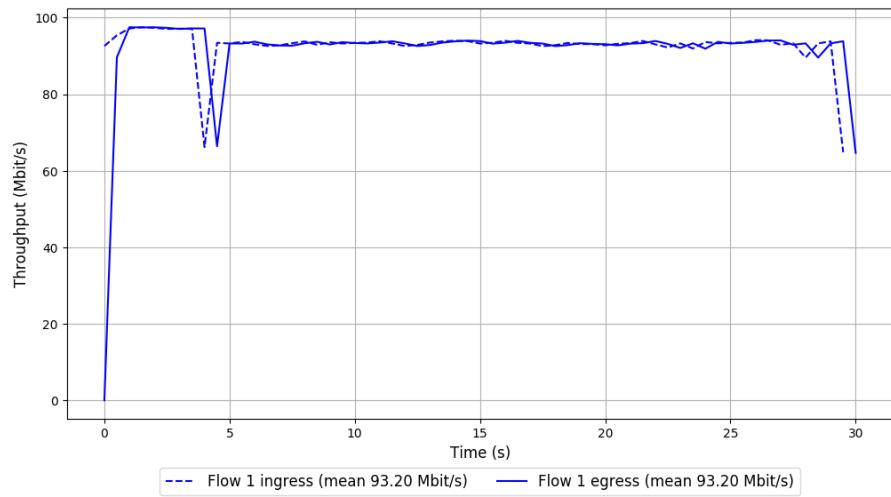


Run 1: Statistics of Indigo

```
Start at: 2019-10-03 06:57:07
End at: 2019-10-03 06:57:37
Local clock offset: -5.519 ms
Remote clock offset: 0.21 ms

# Below is generated by plot.py at 2019-10-03 09:16:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 2.762 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 2.762 ms
Loss rate: 0.01%
```

## Run 1: Report of Indigo — Data Link

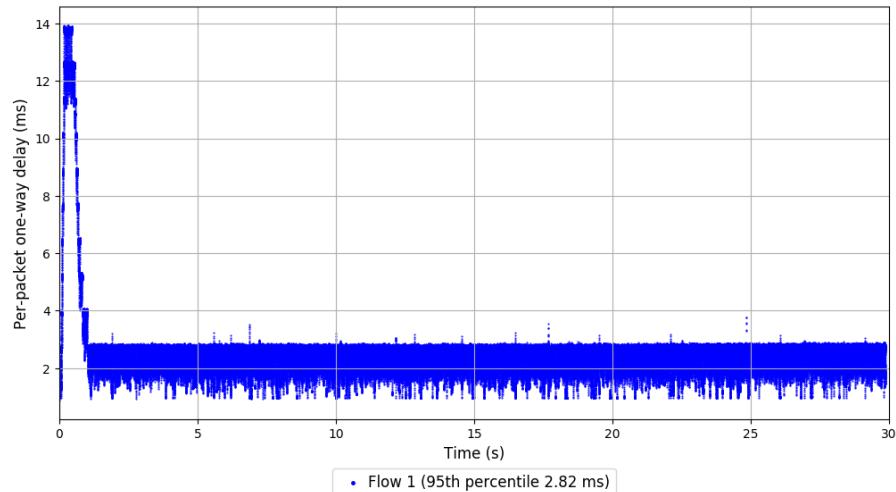
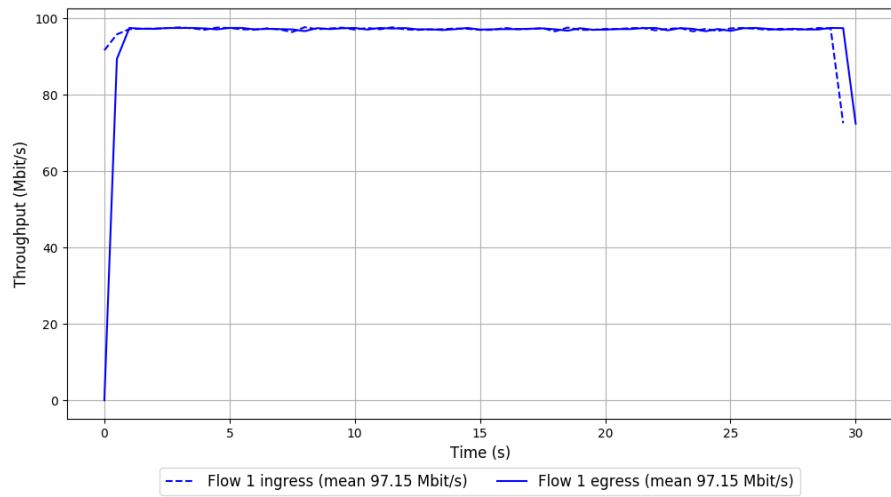


Run 2: Statistics of Indigo

```
Start at: 2019-10-03 07:24:01
End at: 2019-10-03 07:24:31
Local clock offset: -5.732 ms
Remote clock offset: 0.4 ms

# Below is generated by plot.py at 2019-10-03 09:16:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 2.823 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 2.823 ms
Loss rate: 0.01%
```

## Run 2: Report of Indigo — Data Link

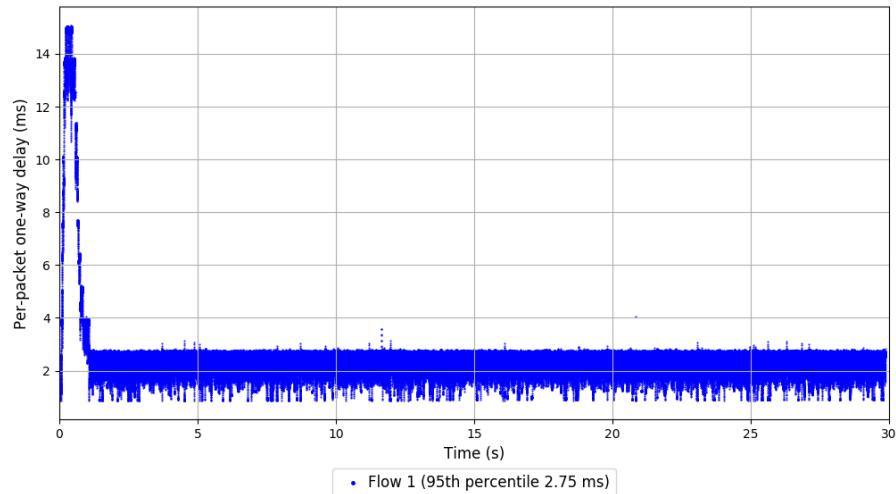
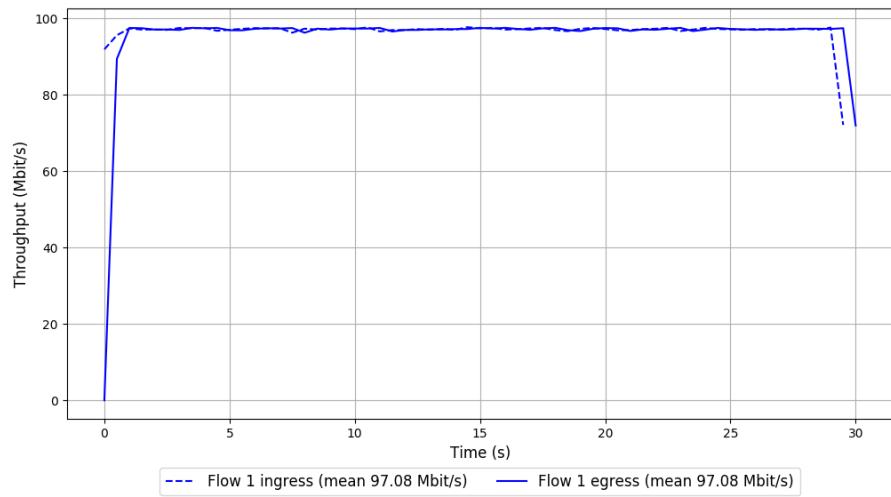


Run 3: Statistics of Indigo

```
Start at: 2019-10-03 07:50:48
End at: 2019-10-03 07:51:18
Local clock offset: -6.837 ms
Remote clock offset: 0.725 ms

# Below is generated by plot.py at 2019-10-03 09:17:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.08 Mbit/s
95th percentile per-packet one-way delay: 2.745 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.08 Mbit/s
95th percentile per-packet one-way delay: 2.745 ms
Loss rate: 0.01%
```

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

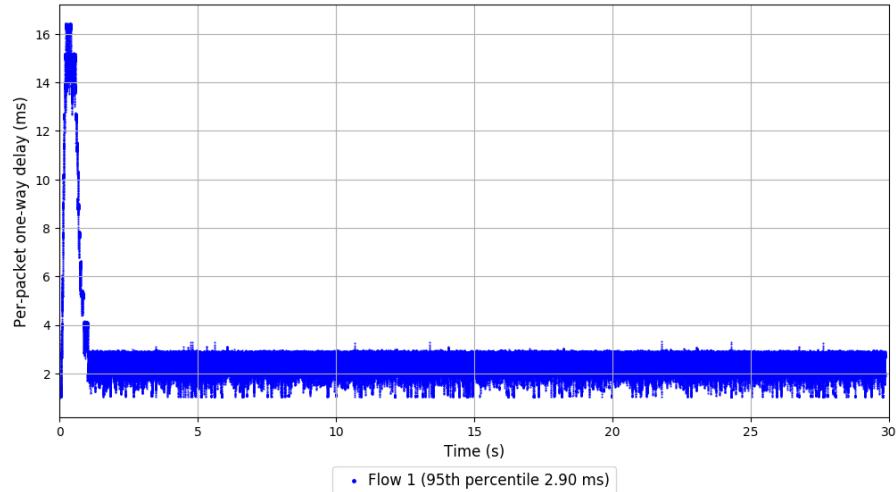
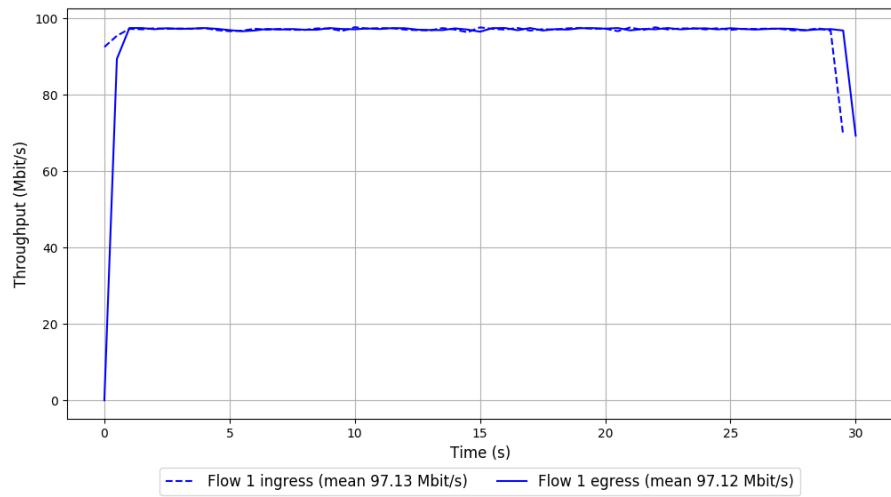


Run 4: Statistics of Indigo

```
Start at: 2019-10-03 08:17:37
End at: 2019-10-03 08:18:07
Local clock offset: -6.553 ms
Remote clock offset: 0.784 ms

# Below is generated by plot.py at 2019-10-03 09:17:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 2.900 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 2.900 ms
Loss rate: 0.02%
```

## Run 4: Report of Indigo — Data Link

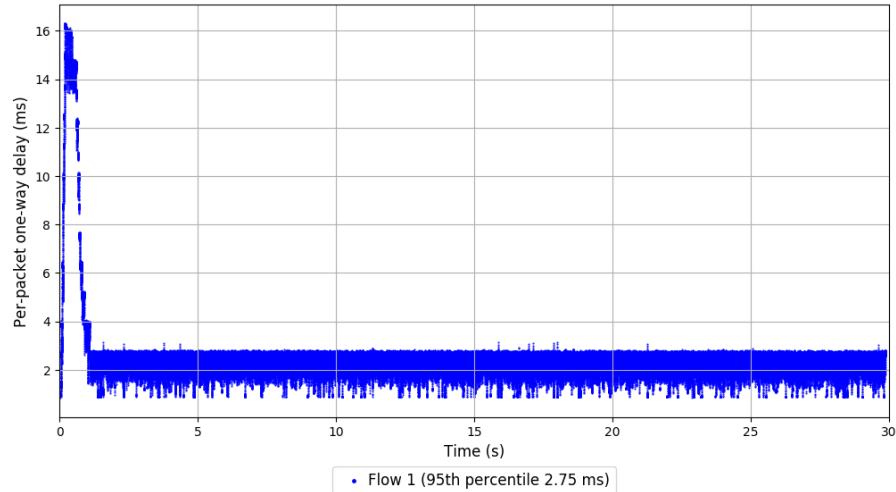
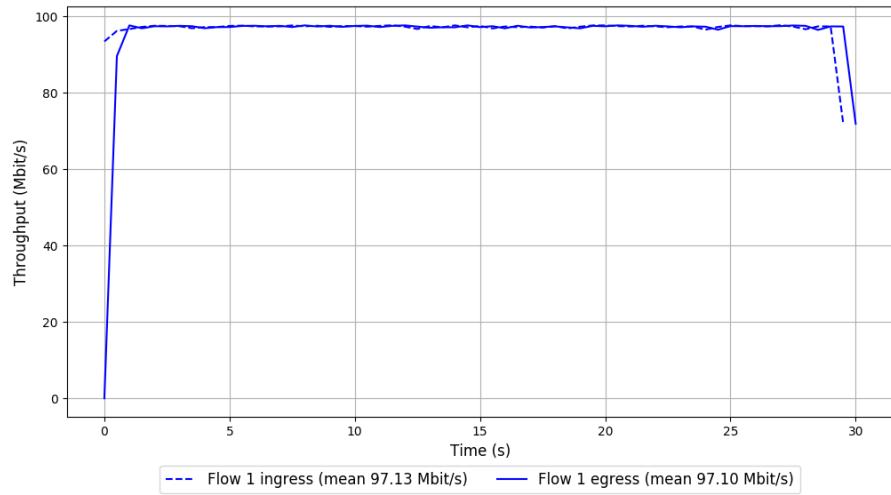


Run 5: Statistics of Indigo

```
Start at: 2019-10-03 08:44:30
End at: 2019-10-03 08:45:00
Local clock offset: -5.491 ms
Remote clock offset: 0.795 ms

# Below is generated by plot.py at 2019-10-03 09:17:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 2.753 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 2.753 ms
Loss rate: 0.04%
```

## Run 5: Report of Indigo — Data Link

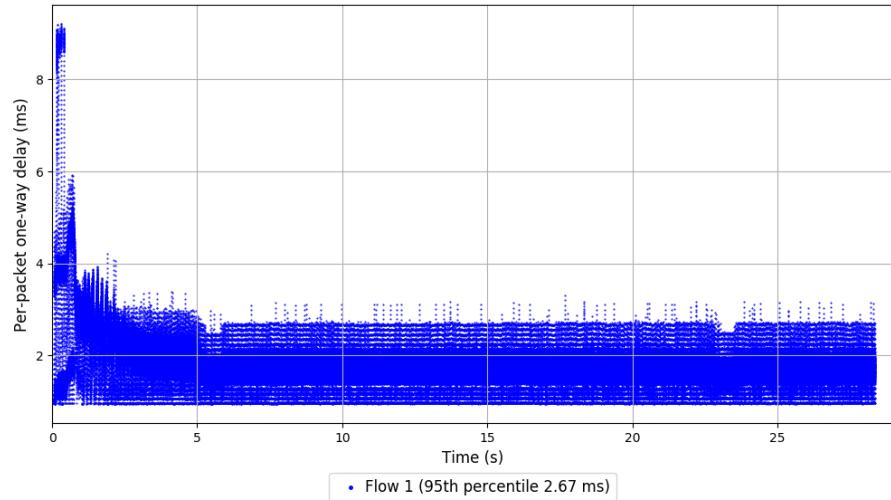
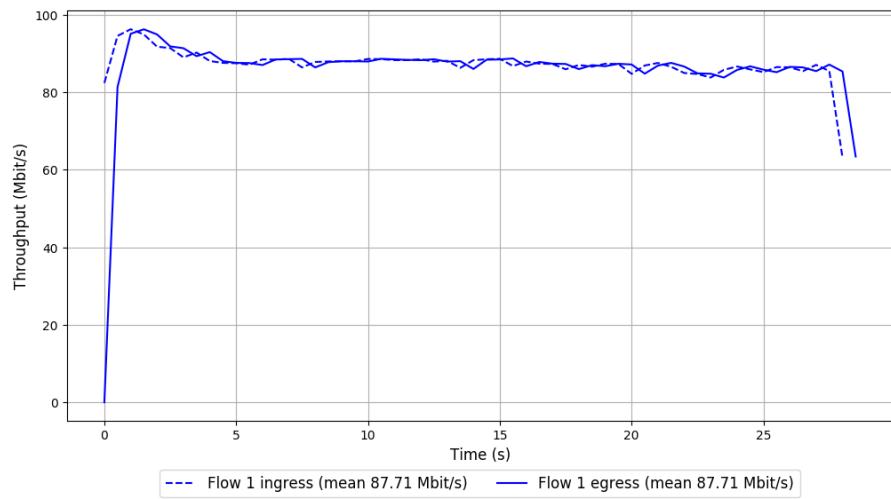


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-10-03 07:18:29
End at: 2019-10-03 07:18:59
Local clock offset: -5.667 ms
Remote clock offset: 0.389 ms

# Below is generated by plot.py at 2019-10-03 09:17:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.71 Mbit/s
95th percentile per-packet one-way delay: 2.673 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.71 Mbit/s
95th percentile per-packet one-way delay: 2.673 ms
Loss rate: 0.00%
```

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

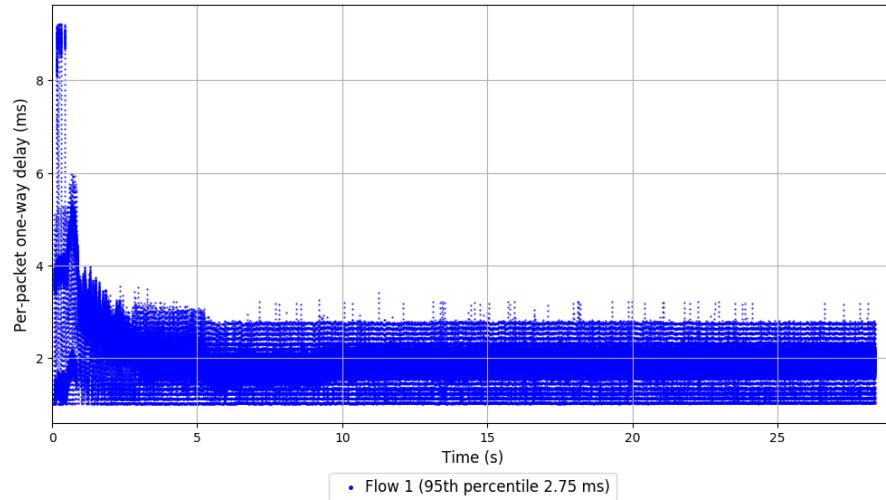
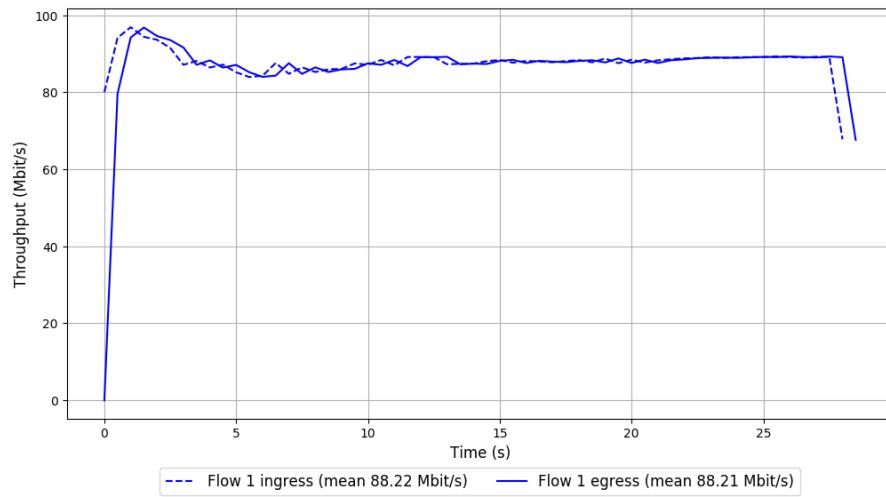


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-10-03 07:45:16
End at: 2019-10-03 07:45:46
Local clock offset: -6.67 ms
Remote clock offset: 0.612 ms

# Below is generated by plot.py at 2019-10-03 09:17:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.21 Mbit/s
95th percentile per-packet one-way delay: 2.754 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.21 Mbit/s
95th percentile per-packet one-way delay: 2.754 ms
Loss rate: 0.01%
```

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

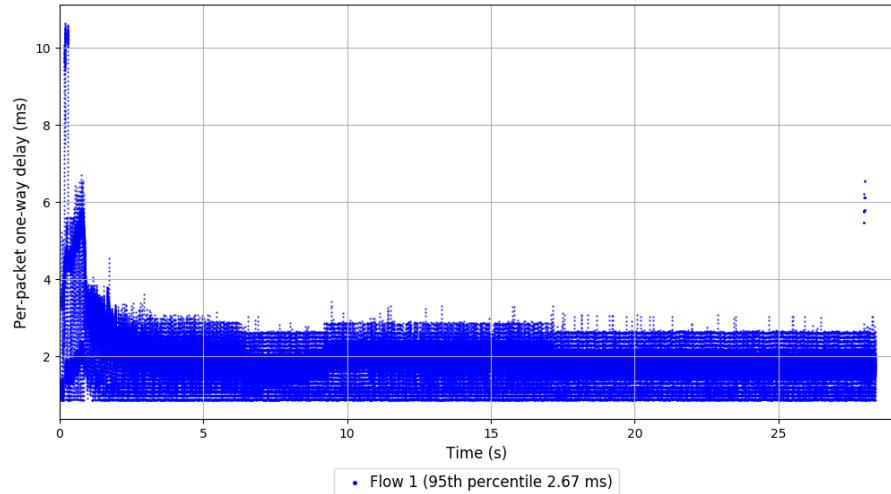
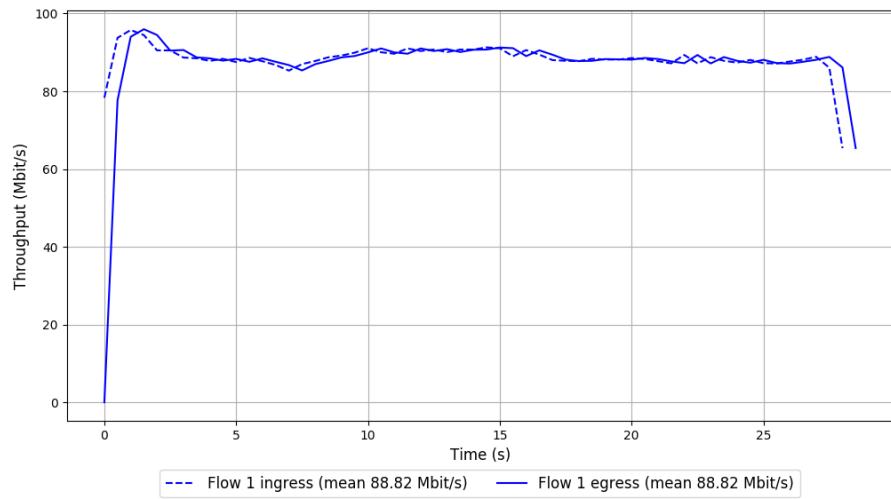


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-10-03 08:12:05
End at: 2019-10-03 08:12:35
Local clock offset: -6.561 ms
Remote clock offset: 0.937 ms

# Below is generated by plot.py at 2019-10-03 09:17:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.82 Mbit/s
95th percentile per-packet one-way delay: 2.672 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.82 Mbit/s
95th percentile per-packet one-way delay: 2.672 ms
Loss rate: 0.01%
```

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

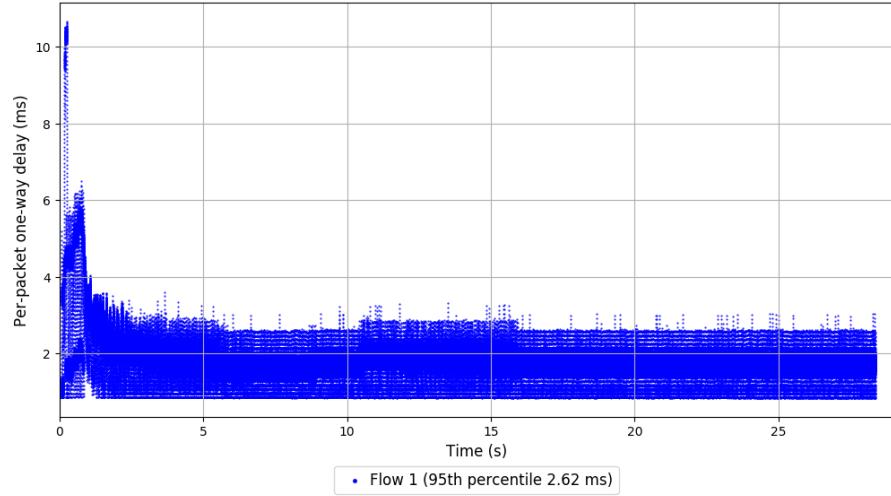
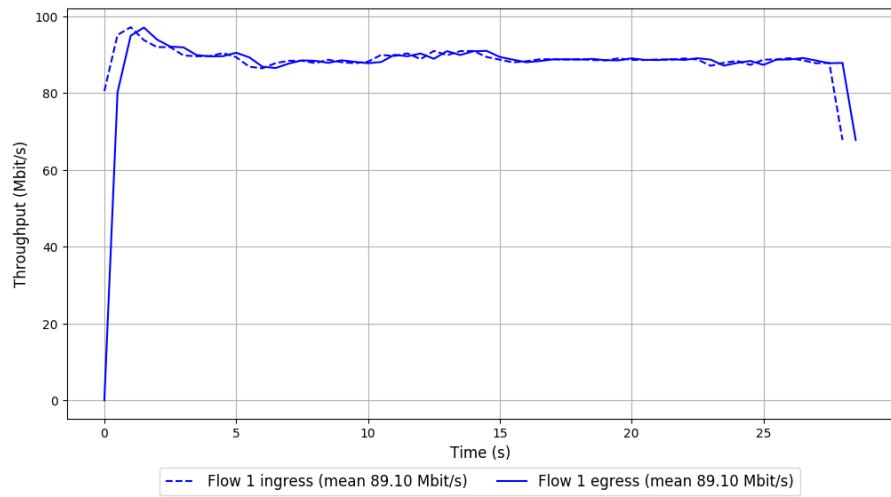


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-10-03 08:38:58
End at: 2019-10-03 08:39:28
Local clock offset: -5.643 ms
Remote clock offset: 0.833 ms

# Below is generated by plot.py at 2019-10-03 09:17:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.10 Mbit/s
95th percentile per-packet one-way delay: 2.617 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 89.10 Mbit/s
95th percentile per-packet one-way delay: 2.617 ms
Loss rate: 0.01%
```

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

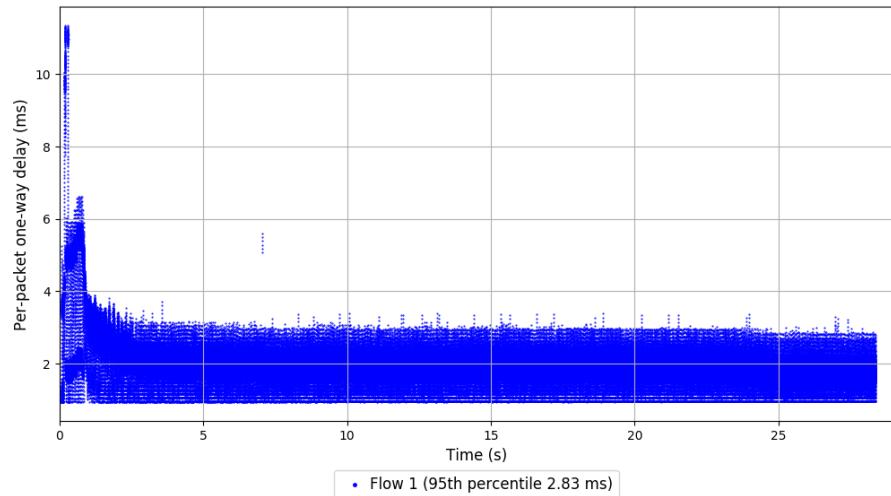
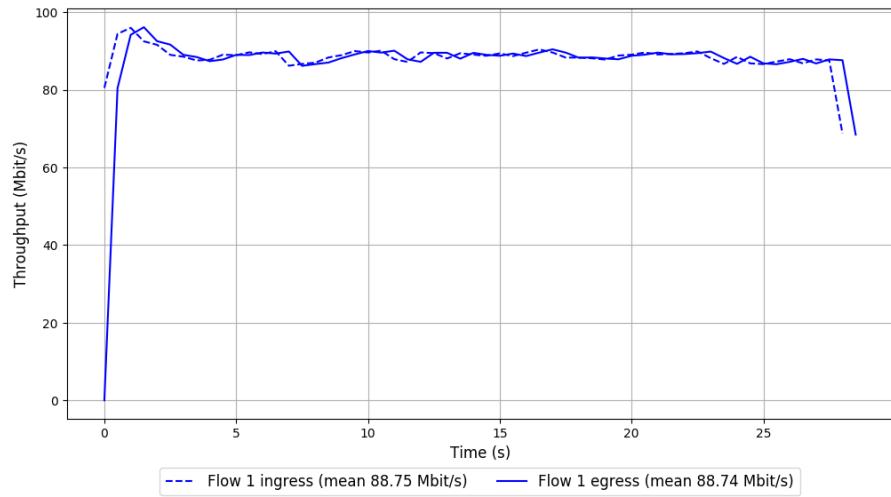


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-10-03 09:05:51
End at: 2019-10-03 09:06:21
Local clock offset: -6.165 ms
Remote clock offset: 0.7 ms

# Below is generated by plot.py at 2019-10-03 09:17:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 2.827 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 2.827 ms
Loss rate: 0.01%
```

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

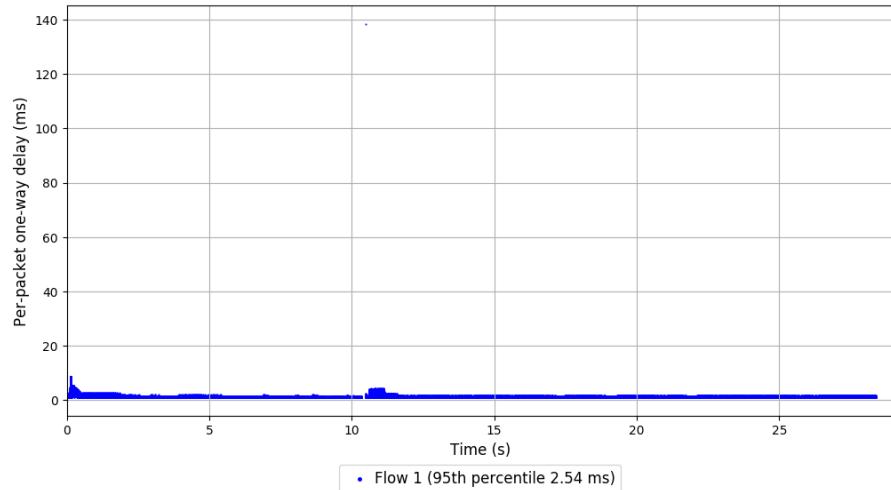
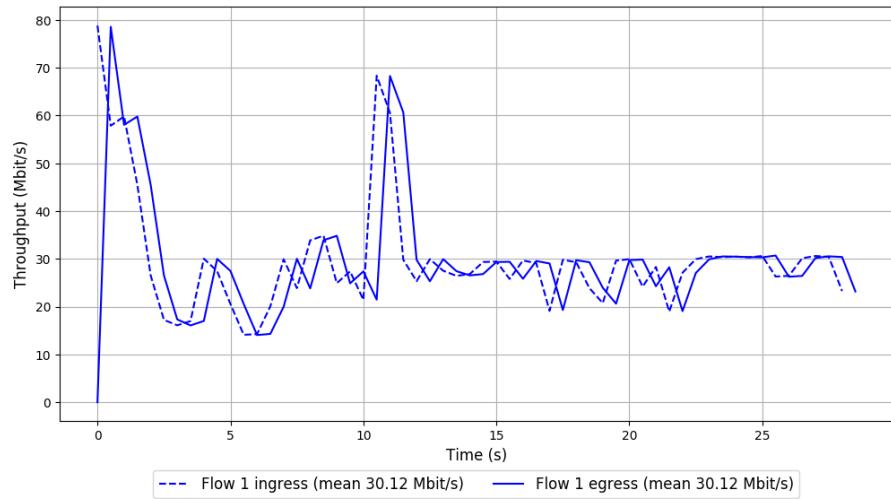


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-10-03 07:19:36
End at: 2019-10-03 07:20:06
Local clock offset: -5.677 ms
Remote clock offset: 0.379 ms

# Below is generated by plot.py at 2019-10-03 09:17:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 2.541 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 2.541 ms
Loss rate: 0.01%
```

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

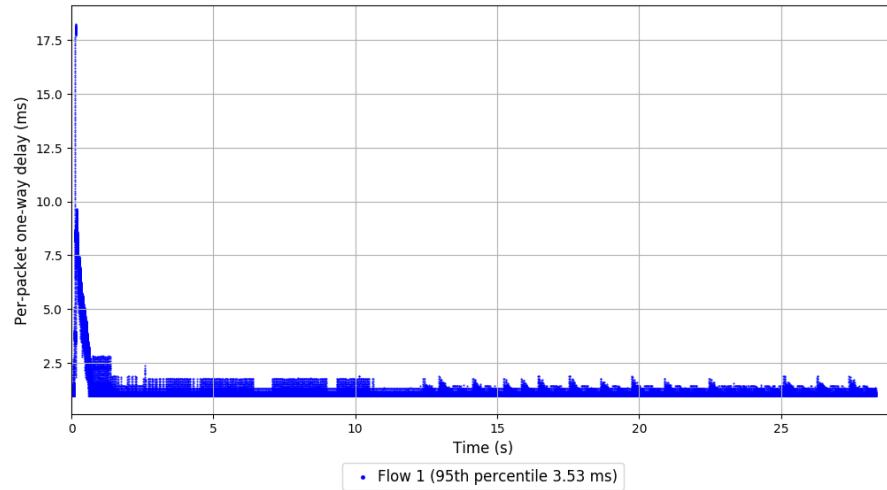
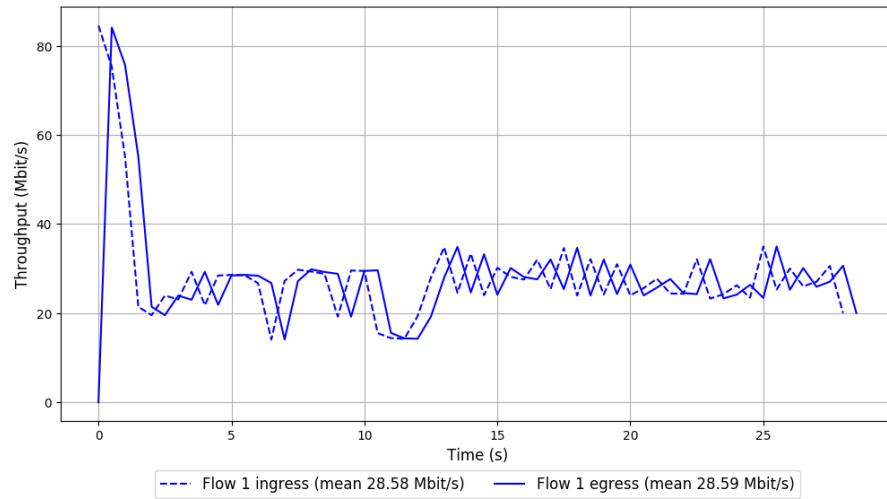


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-10-03 07:46:24
End at: 2019-10-03 07:46:54
Local clock offset: -6.684 ms
Remote clock offset: 0.636 ms

# Below is generated by plot.py at 2019-10-03 09:17:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 3.527 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 3.527 ms
Loss rate: 0.00%
```

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

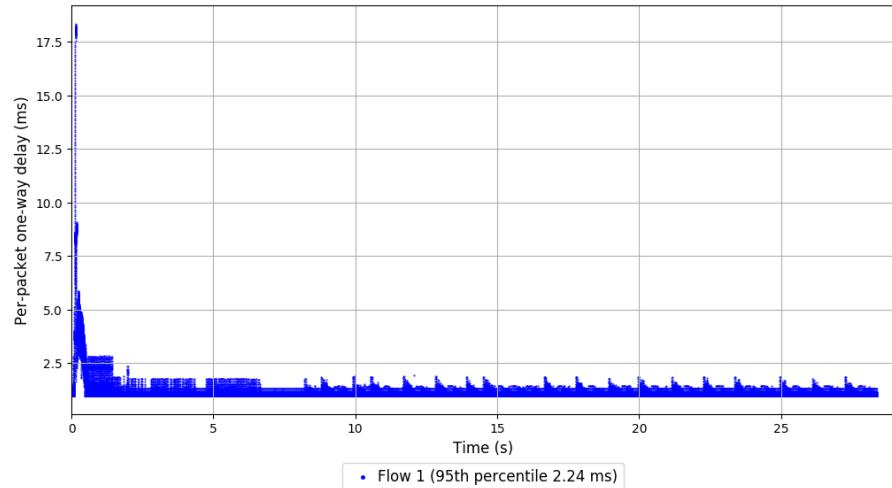
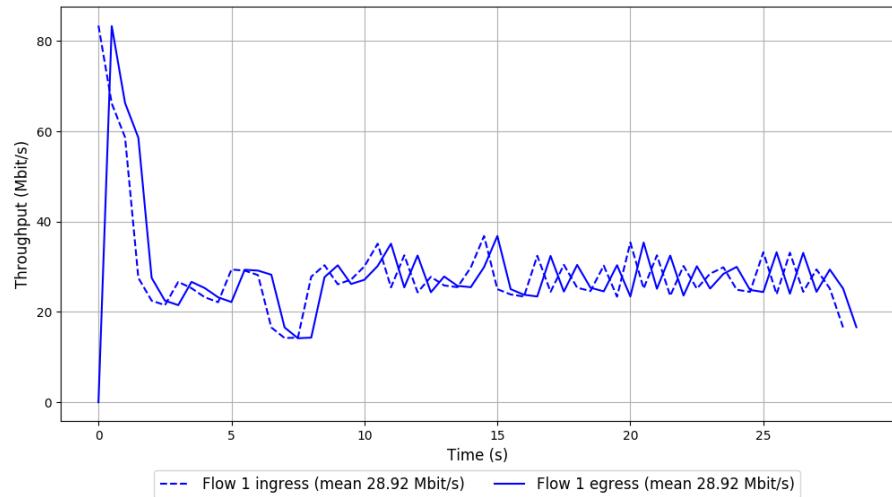


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-10-03 08:13:13
End at: 2019-10-03 08:13:43
Local clock offset: -6.552 ms
Remote clock offset: 0.841 ms

# Below is generated by plot.py at 2019-10-03 09:17:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 2.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 2.241 ms
Loss rate: 0.00%
```

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

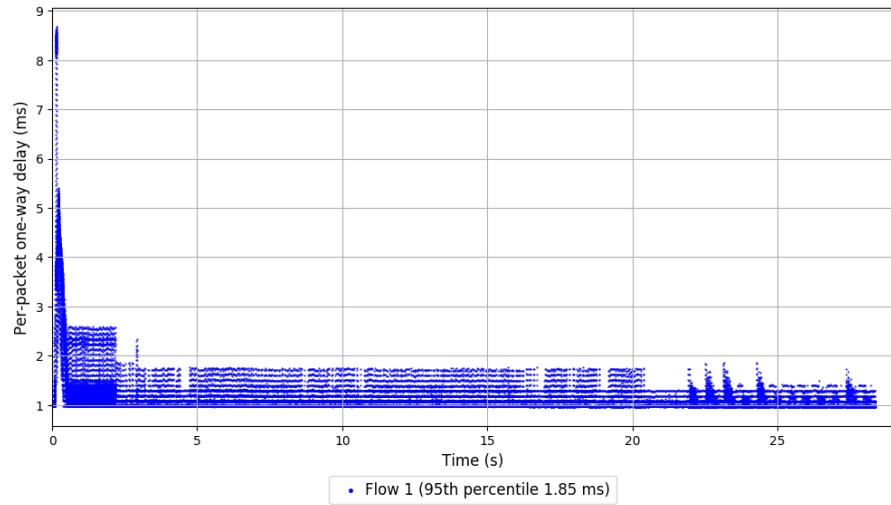
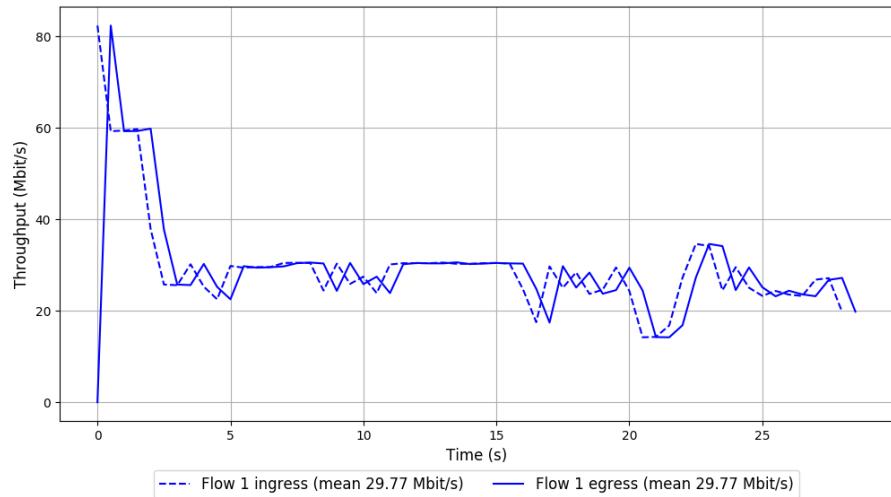


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-10-03 08:40:05
End at: 2019-10-03 08:40:35
Local clock offset: -5.515 ms
Remote clock offset: 0.799 ms

# Below is generated by plot.py at 2019-10-03 09:17:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.77 Mbit/s
95th percentile per-packet one-way delay: 1.853 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 29.77 Mbit/s
95th percentile per-packet one-way delay: 1.853 ms
Loss rate: 0.00%
```

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

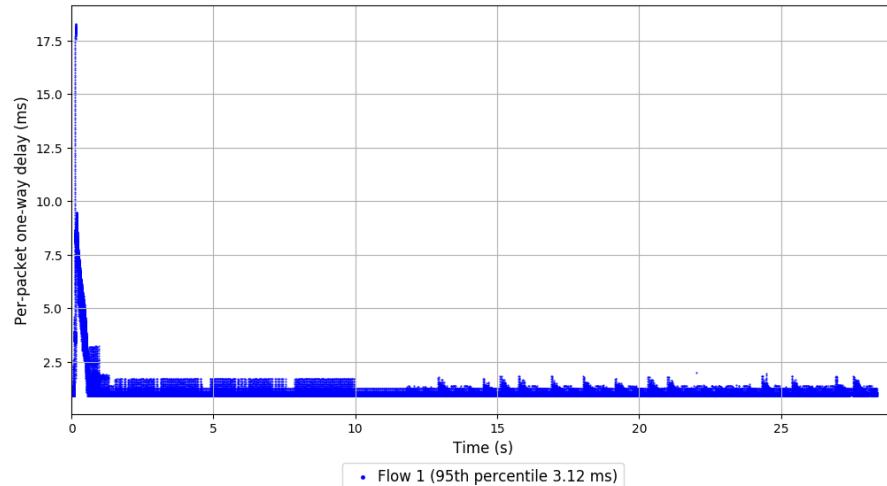
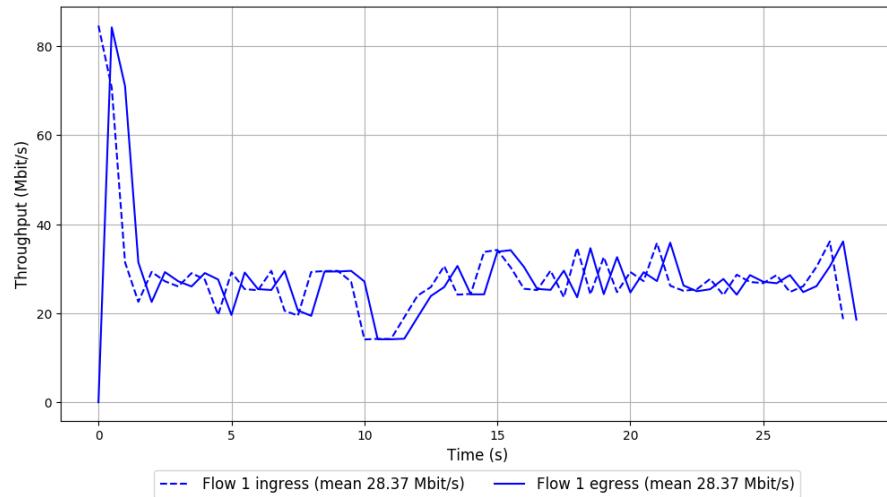


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-10-03 09:06:59
End at: 2019-10-03 09:07:29
Local clock offset: -6.242 ms
Remote clock offset: 0.674 ms

# Below is generated by plot.py at 2019-10-03 09:17:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 3.115 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 3.115 ms
Loss rate: 0.01%
```

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

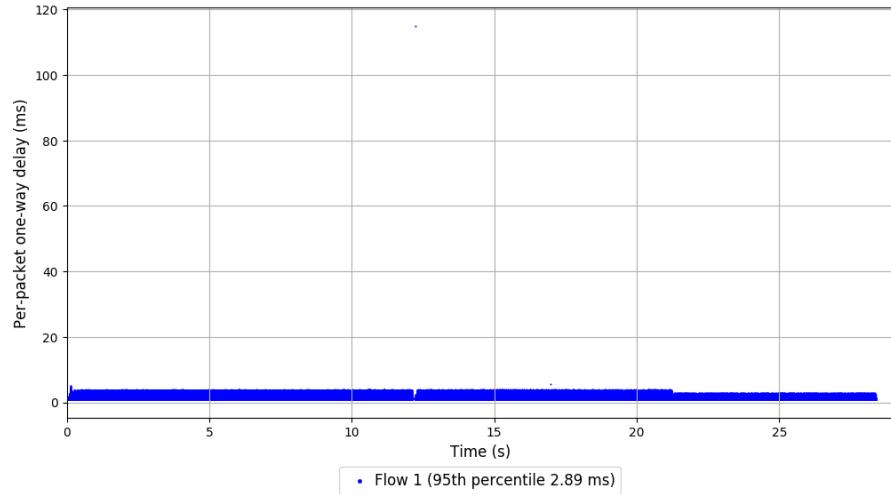
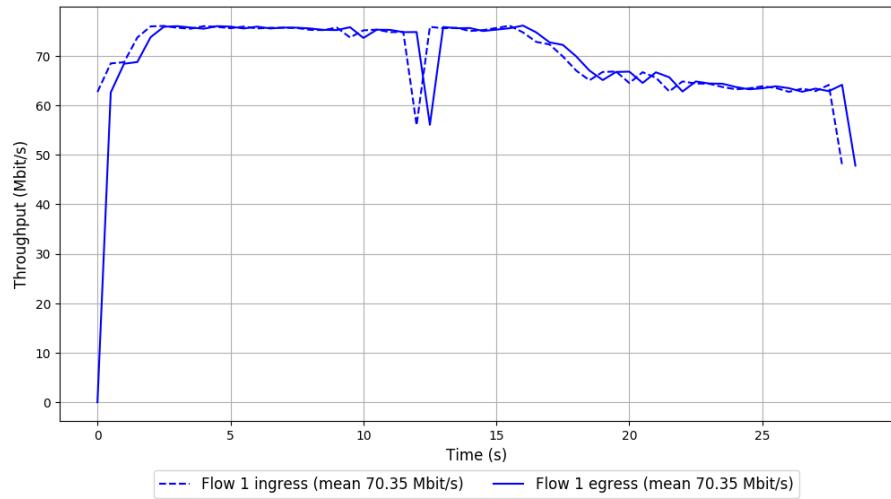


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-10-03 06:58:16
End at: 2019-10-03 06:58:46
Local clock offset: -5.545 ms
Remote clock offset: 0.197 ms

# Below is generated by plot.py at 2019-10-03 09:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 2.894 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 2.894 ms
Loss rate: 0.01%
```

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

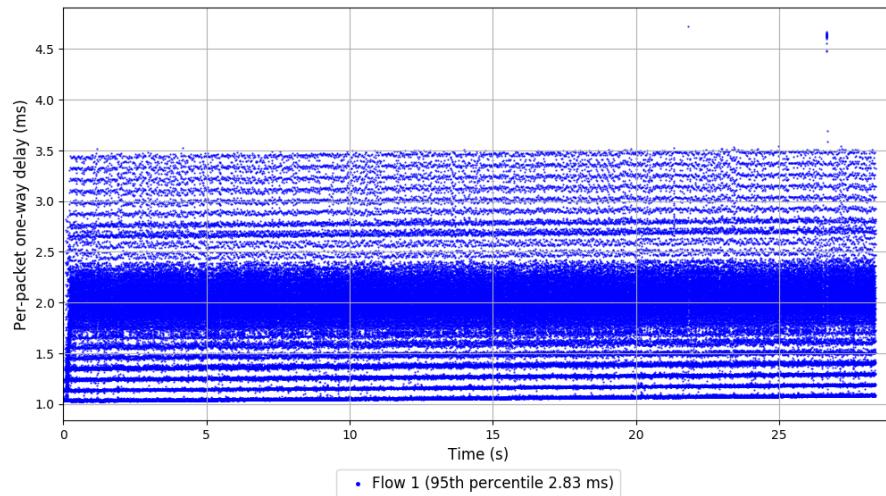
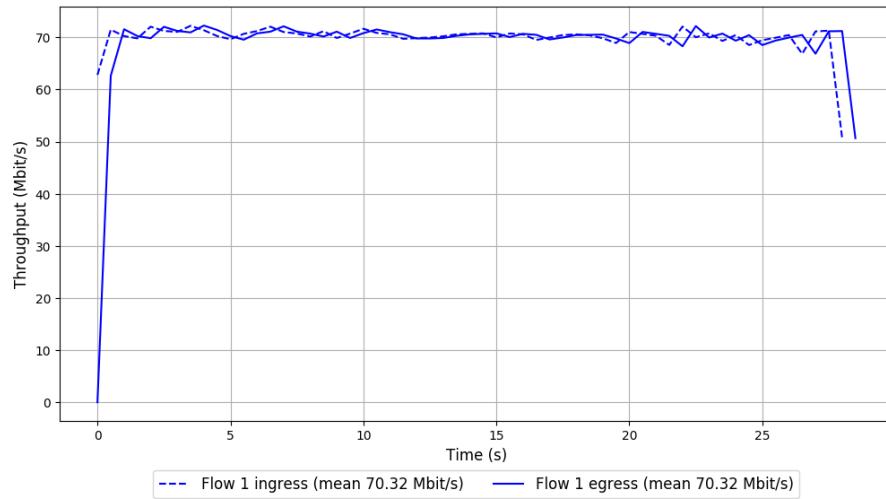


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-10-03 07:25:10
End at: 2019-10-03 07:25:40
Local clock offset: -5.755 ms
Remote clock offset: 0.404 ms

# Below is generated by plot.py at 2019-10-03 09:18:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.32 Mbit/s
95th percentile per-packet one-way delay: 2.833 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 70.32 Mbit/s
95th percentile per-packet one-way delay: 2.833 ms
Loss rate: 0.01%
```

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

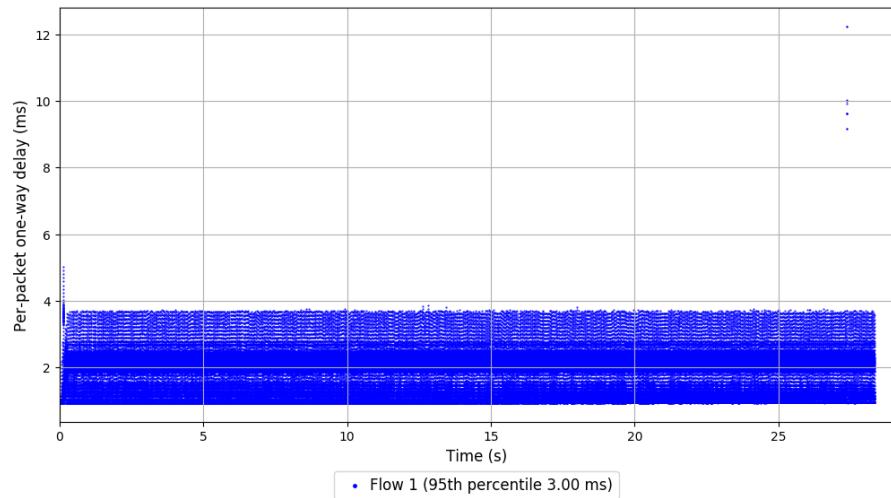
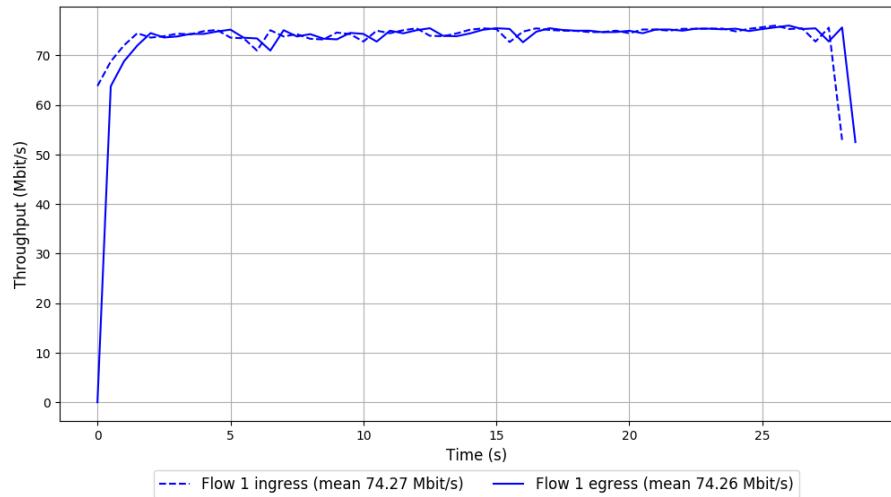


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-10-03 07:51:57
End at: 2019-10-03 07:52:27
Local clock offset: -6.786 ms
Remote clock offset: 0.739 ms

# Below is generated by plot.py at 2019-10-03 09:18:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.26 Mbit/s
95th percentile per-packet one-way delay: 3.005 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 74.26 Mbit/s
95th percentile per-packet one-way delay: 3.005 ms
Loss rate: 0.01%
```

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

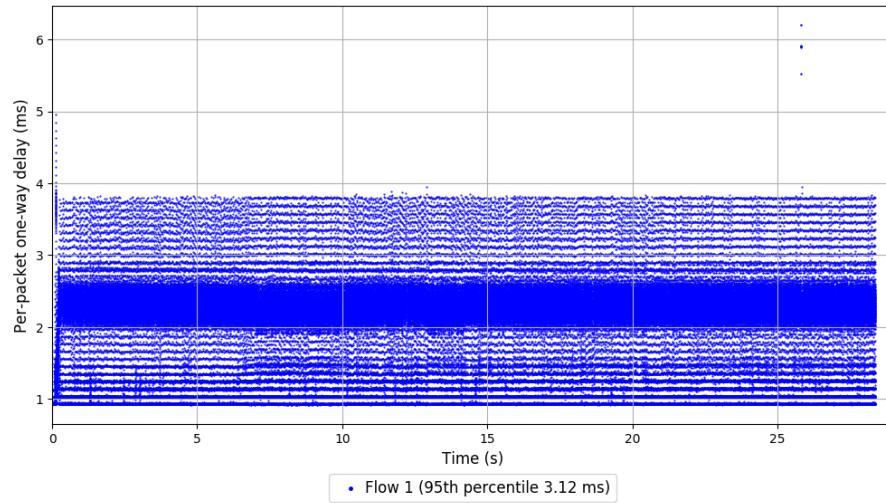
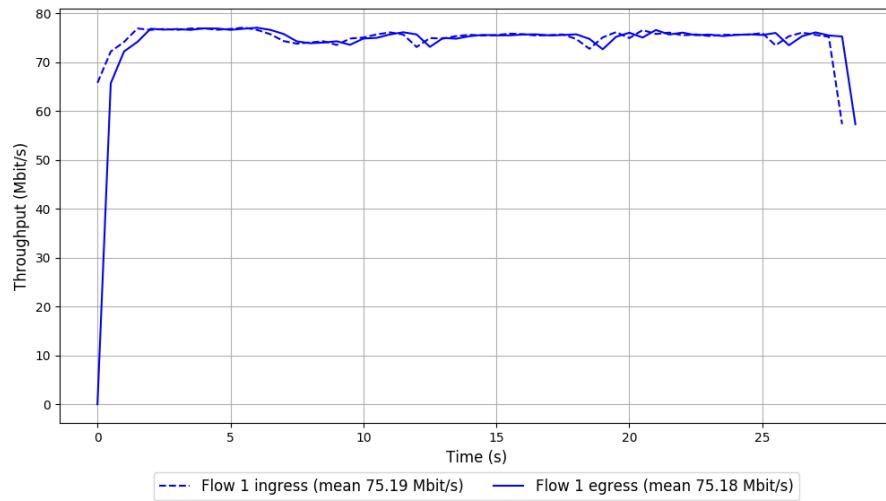


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-10-03 08:18:46
End at: 2019-10-03 08:19:16
Local clock offset: -6.56 ms
Remote clock offset: 0.877 ms

# Below is generated by plot.py at 2019-10-03 09:18:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.18 Mbit/s
95th percentile per-packet one-way delay: 3.121 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 75.18 Mbit/s
95th percentile per-packet one-way delay: 3.121 ms
Loss rate: 0.01%
```

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

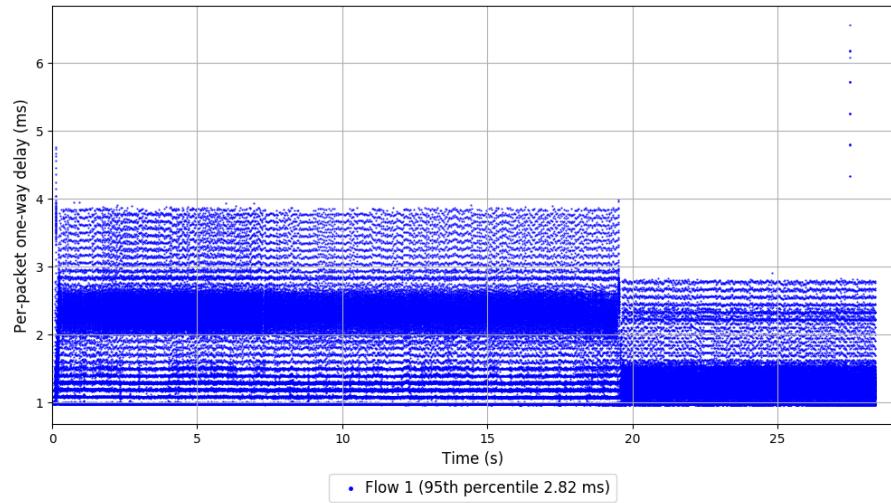
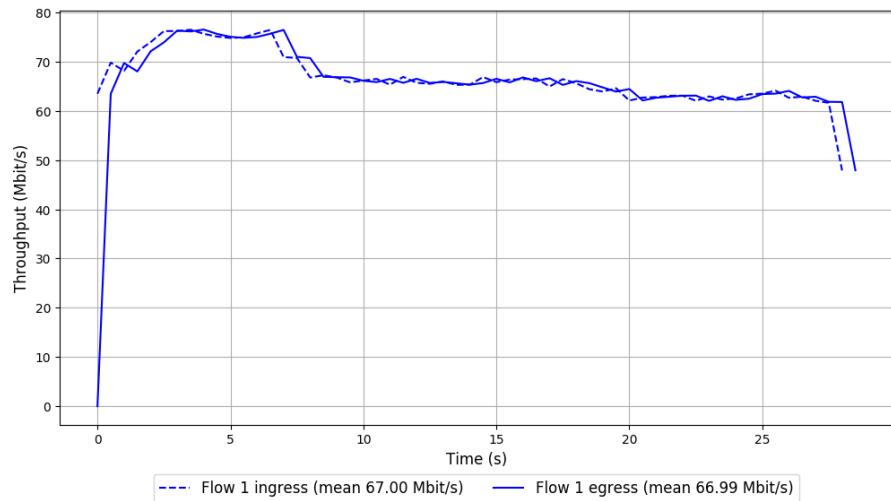


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-10-03 08:45:39
End at: 2019-10-03 08:46:09
Local clock offset: -5.384 ms
Remote clock offset: 0.777 ms

# Below is generated by plot.py at 2019-10-03 09:18:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.99 Mbit/s
95th percentile per-packet one-way delay: 2.823 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 66.99 Mbit/s
95th percentile per-packet one-way delay: 2.823 ms
Loss rate: 0.01%
```

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

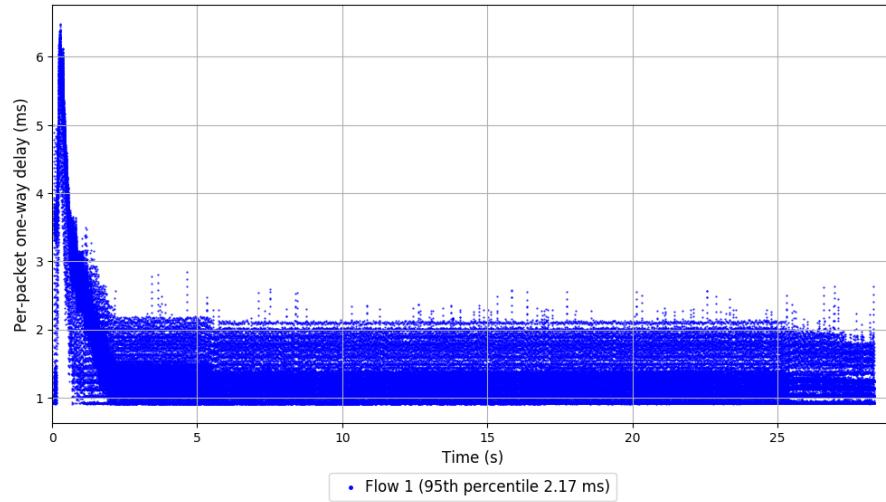
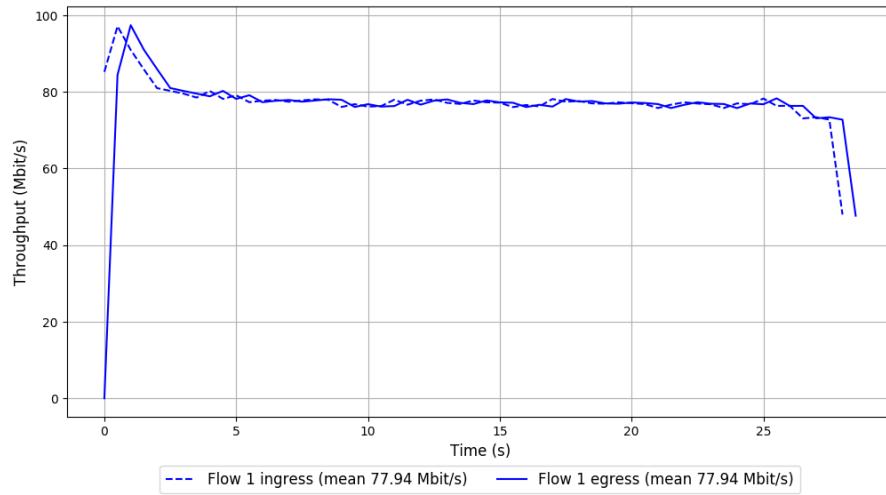


```
Run 1: Statistics of Indigo-MusesT
```

```
Start at: 2019-10-03 07:06:18
End at: 2019-10-03 07:06:48
Local clock offset: -5.608 ms
Remote clock offset: 0.303 ms

# Below is generated by plot.py at 2019-10-03 09:18:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.94 Mbit/s
95th percentile per-packet one-way delay: 2.165 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 77.94 Mbit/s
95th percentile per-packet one-way delay: 2.165 ms
Loss rate: 0.01%
```

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

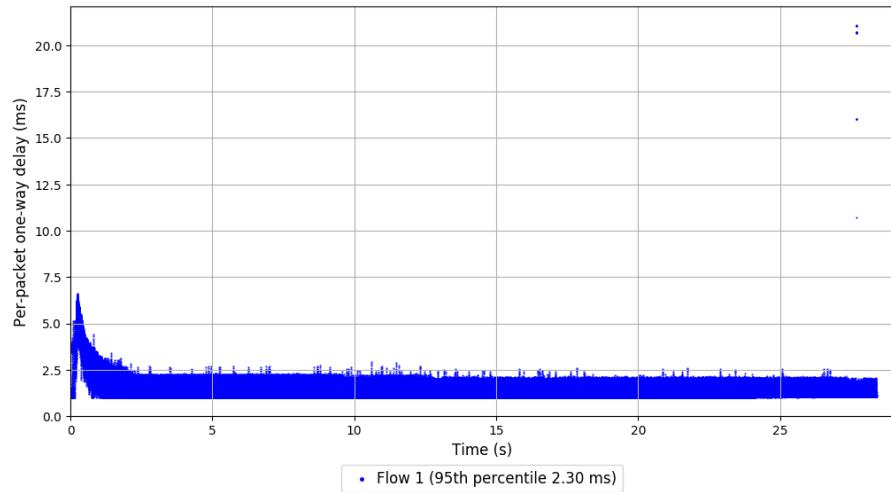
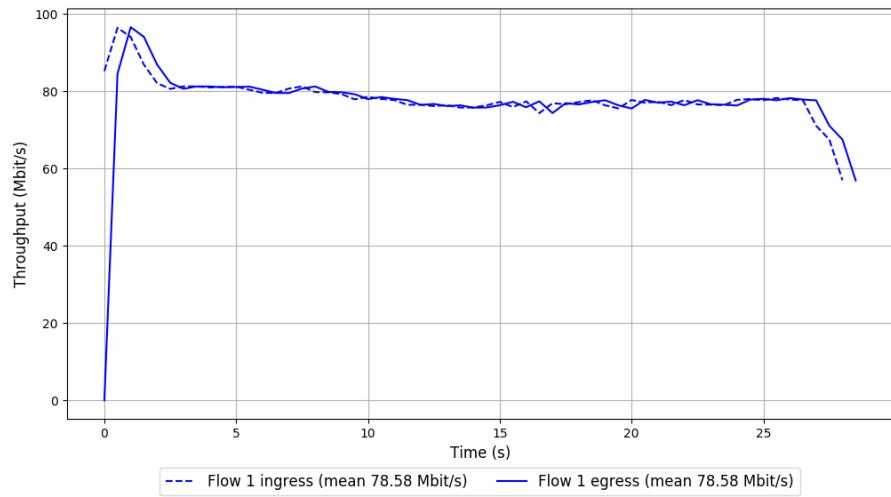


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-10-03 07:33:06
End at: 2019-10-03 07:33:36
Local clock offset: -6.28 ms
Remote clock offset: 0.547 ms

# Below is generated by plot.py at 2019-10-03 09:18:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.58 Mbit/s
95th percentile per-packet one-way delay: 2.300 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 78.58 Mbit/s
95th percentile per-packet one-way delay: 2.300 ms
Loss rate: 0.01%
```

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

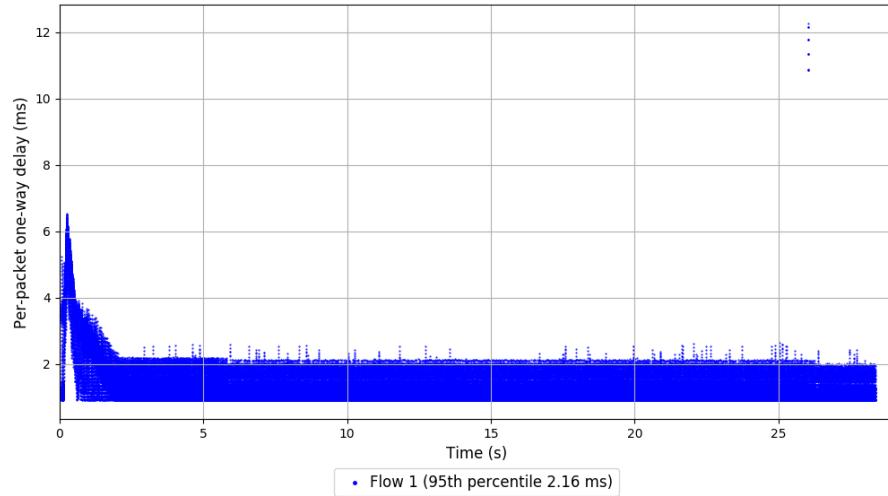
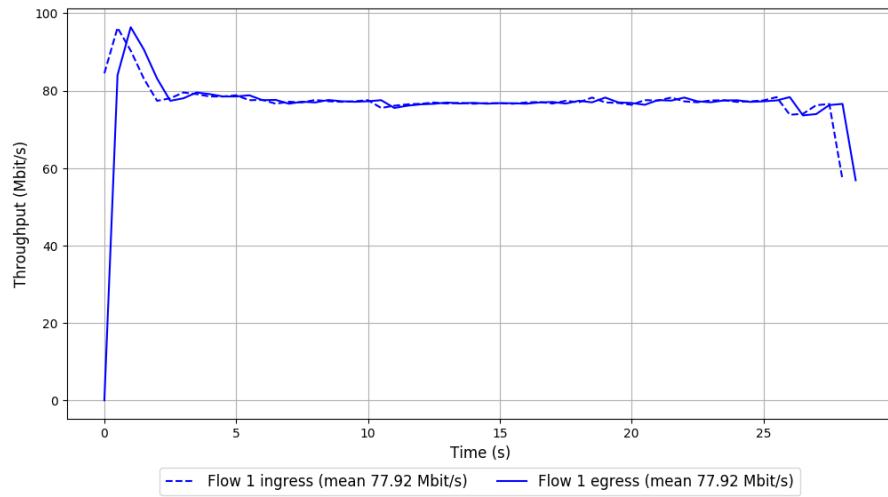


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-10-03 07:59:55
End at: 2019-10-03 08:00:25
Local clock offset: -6.675 ms
Remote clock offset: 0.818 ms

# Below is generated by plot.py at 2019-10-03 09:18:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.92 Mbit/s
95th percentile per-packet one-way delay: 2.163 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 77.92 Mbit/s
95th percentile per-packet one-way delay: 2.163 ms
Loss rate: 0.01%
```

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

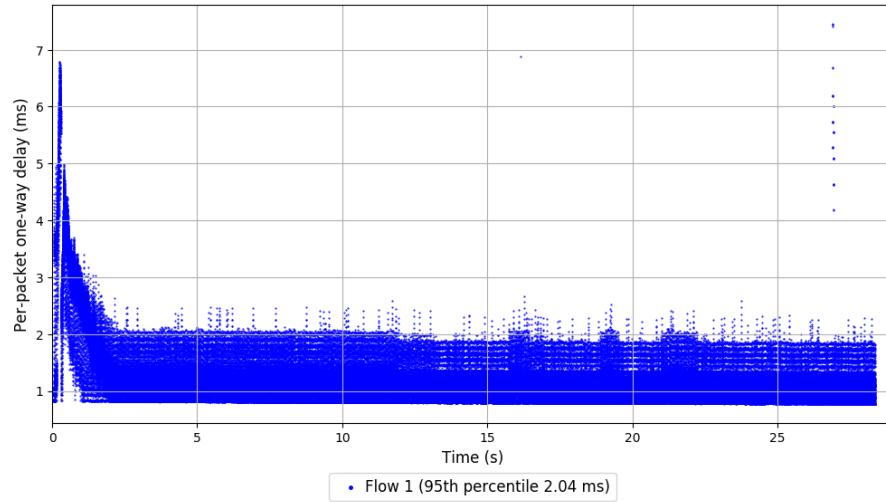
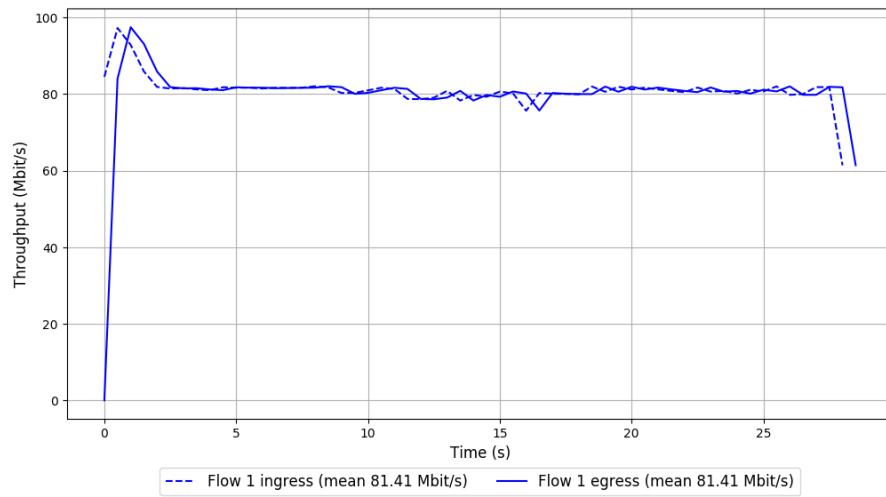


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-10-03 08:26:47
End at: 2019-10-03 08:27:17
Local clock offset: -6.335 ms
Remote clock offset: 0.933 ms

# Below is generated by plot.py at 2019-10-03 09:19:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.41 Mbit/s
95th percentile per-packet one-way delay: 2.037 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 81.41 Mbit/s
95th percentile per-packet one-way delay: 2.037 ms
Loss rate: 0.01%
```

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

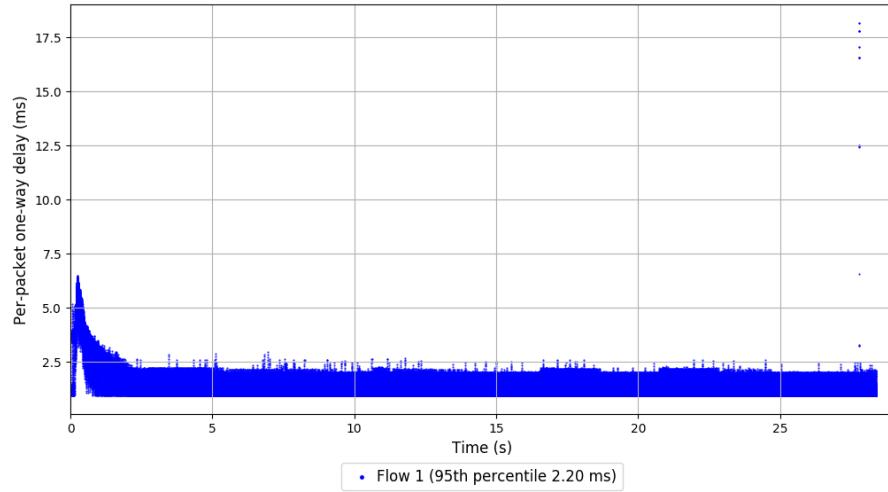
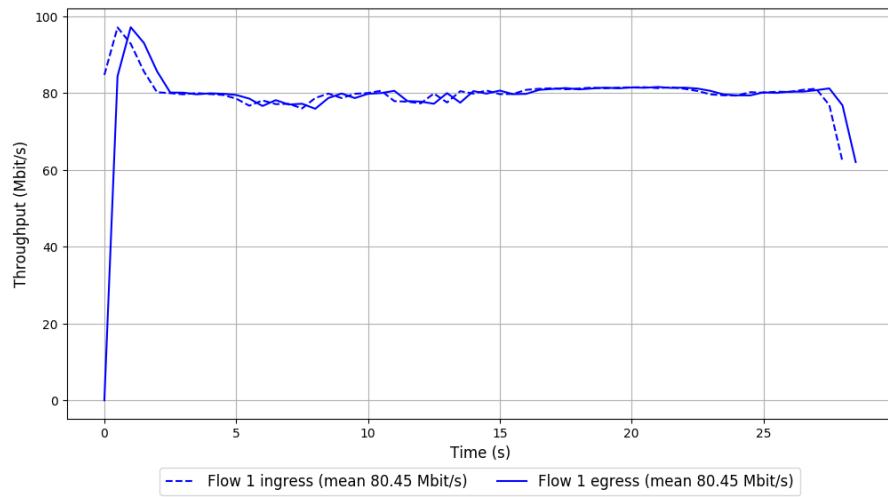


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-10-03 08:53:40
End at: 2019-10-03 08:54:10
Local clock offset: -5.268 ms
Remote clock offset: 0.761 ms

# Below is generated by plot.py at 2019-10-03 09:19:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.45 Mbit/s
95th percentile per-packet one-way delay: 2.198 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 80.45 Mbit/s
95th percentile per-packet one-way delay: 2.198 ms
Loss rate: 0.01%
```

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

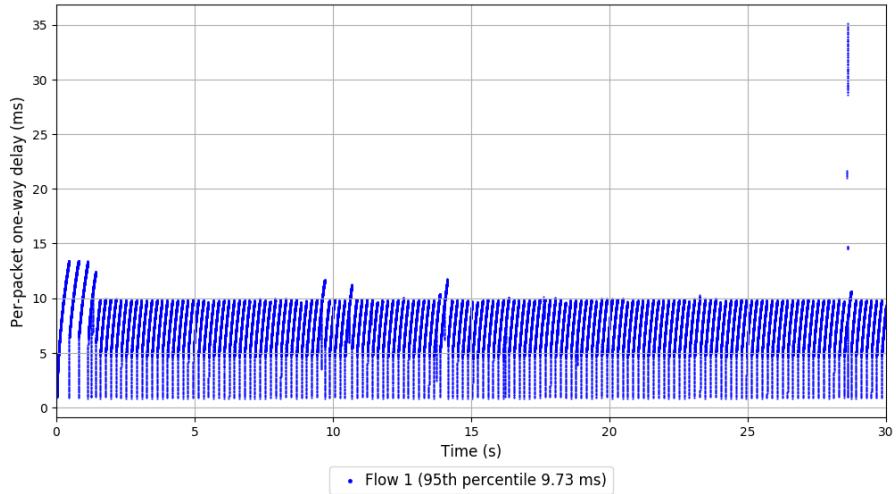
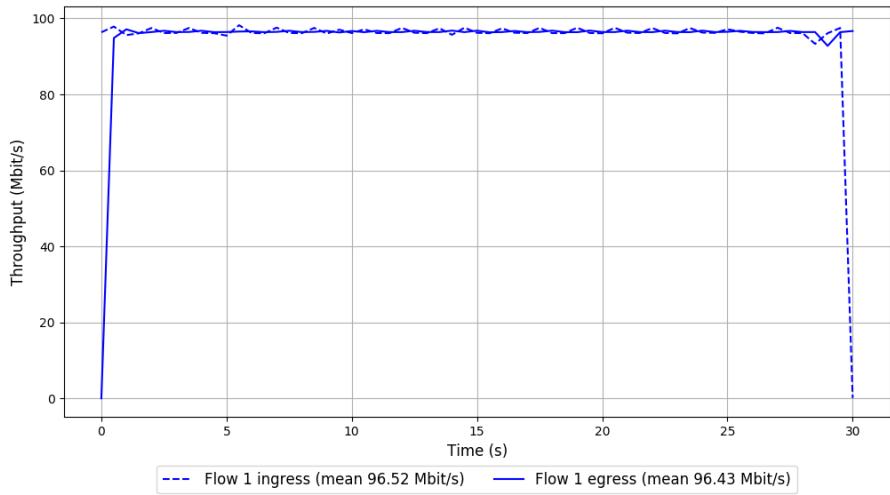


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-10-03 07:05:09
End at: 2019-10-03 07:05:39
Local clock offset: -5.596 ms
Remote clock offset: 0.246 ms

# Below is generated by plot.py at 2019-10-03 09:19:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.43 Mbit/s
95th percentile per-packet one-way delay: 9.730 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.43 Mbit/s
95th percentile per-packet one-way delay: 9.730 ms
Loss rate: 0.10%
```

## Run 1: Report of LEDBAT — Data Link

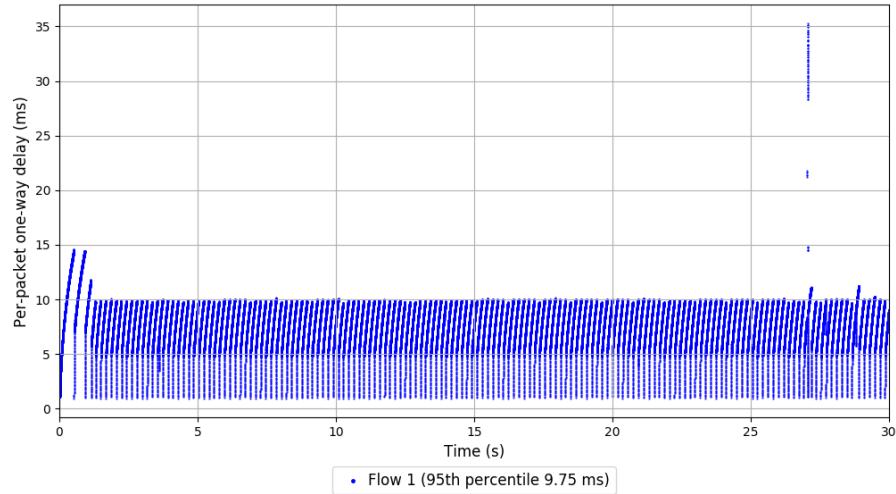
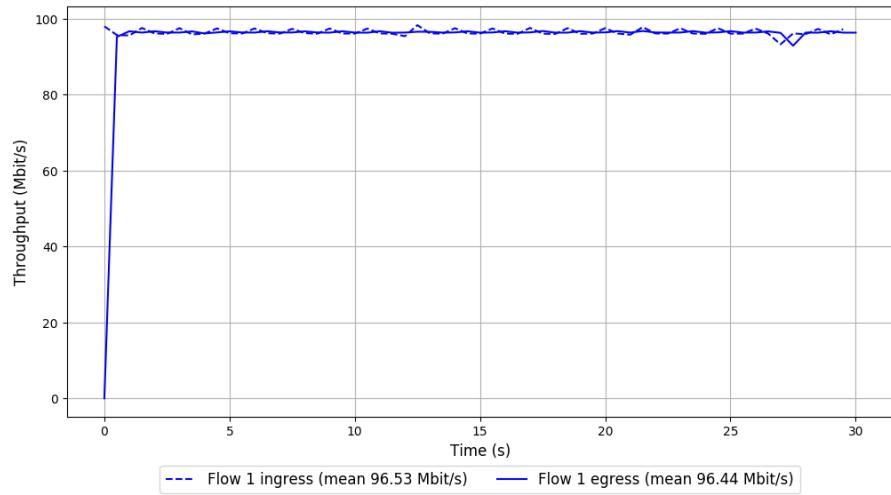


Run 2: Statistics of LEDBAT

```
Start at: 2019-10-03 07:31:56
End at: 2019-10-03 07:32:26
Local clock offset: -6.246 ms
Remote clock offset: 0.51 ms

# Below is generated by plot.py at 2019-10-03 09:19:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 9.750 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 9.750 ms
Loss rate: 0.10%
```

## Run 2: Report of LEDBAT — Data Link

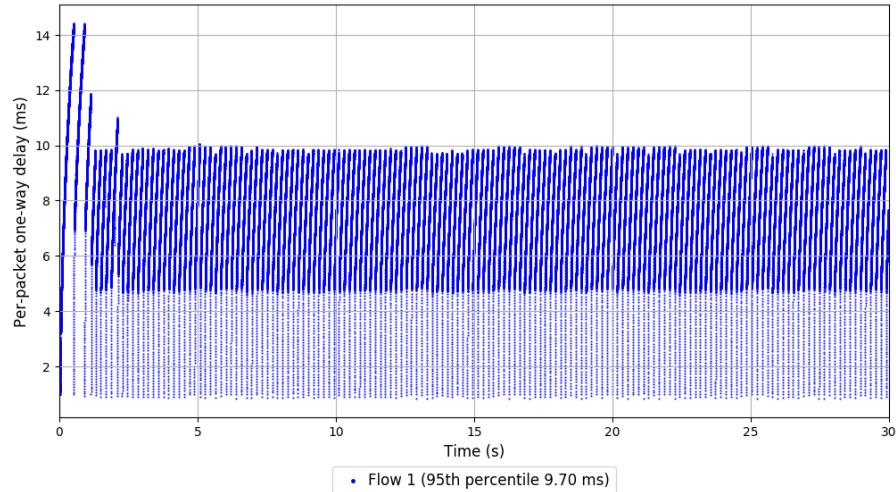
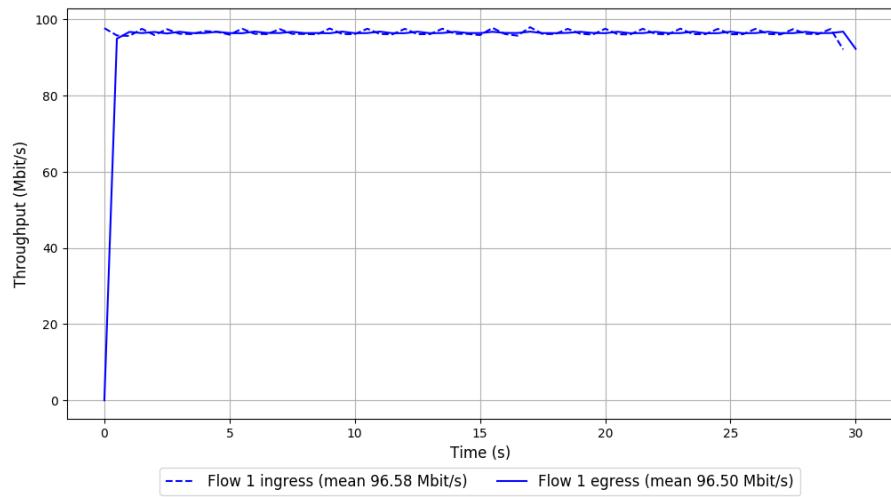


Run 3: Statistics of LEDBAT

```
Start at: 2019-10-03 07:58:45
End at: 2019-10-03 07:59:15
Local clock offset: -6.684 ms
Remote clock offset: 0.747 ms

# Below is generated by plot.py at 2019-10-03 09:20:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 9.700 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 9.700 ms
Loss rate: 0.09%
```

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

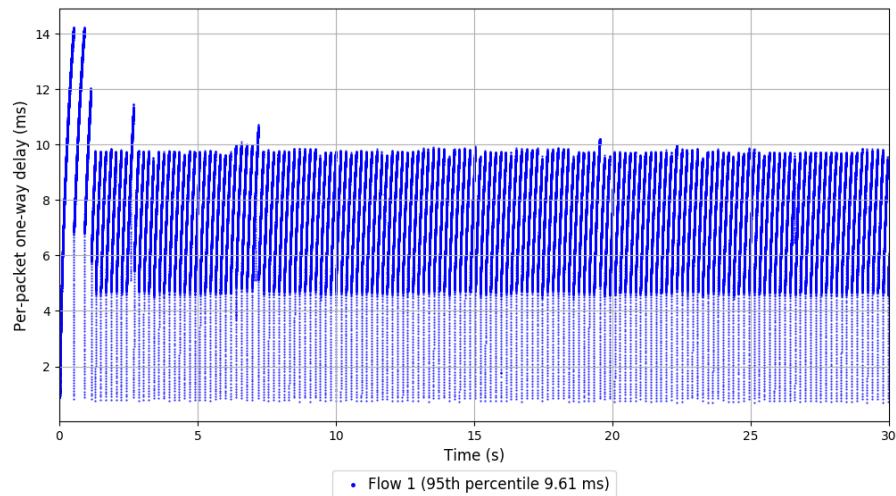
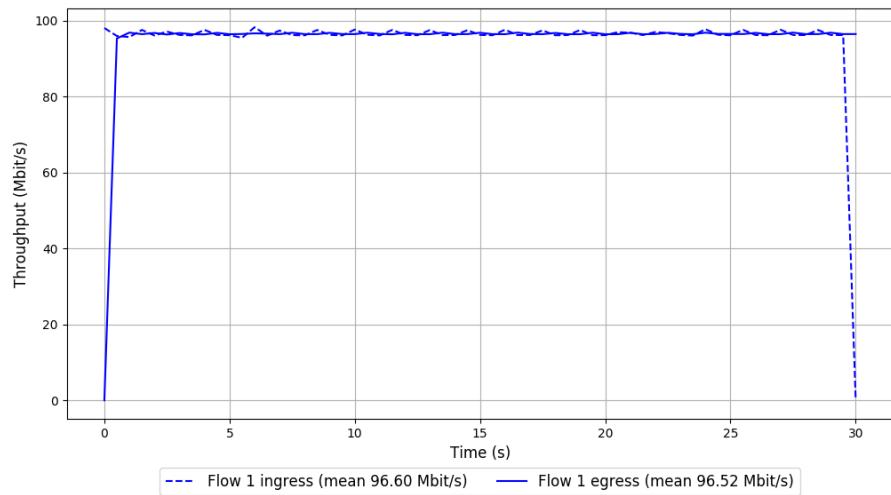


Run 4: Statistics of LEDBAT

```
Start at: 2019-10-03 08:25:38
End at: 2019-10-03 08:26:08
Local clock offset: -6.494 ms
Remote clock offset: 0.83 ms

# Below is generated by plot.py at 2019-10-03 09:20:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 9.610 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 9.610 ms
Loss rate: 0.09%
```

Run 4: Report of LEDBAT — Data Link

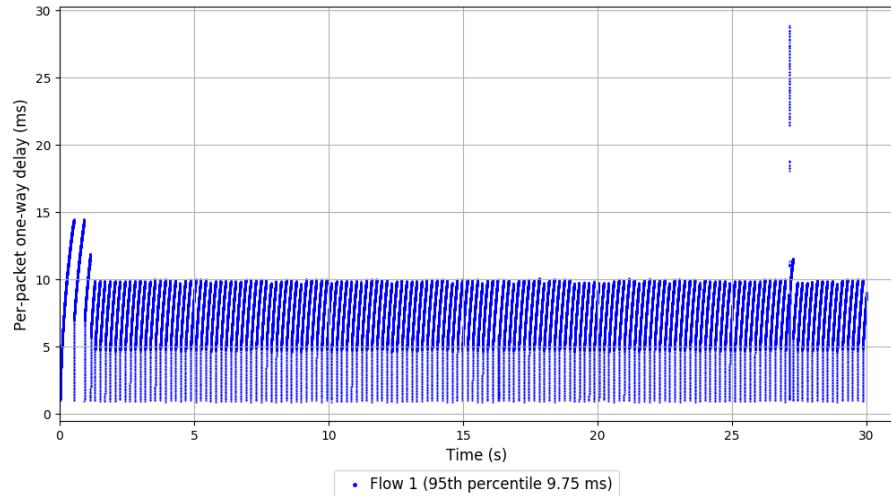
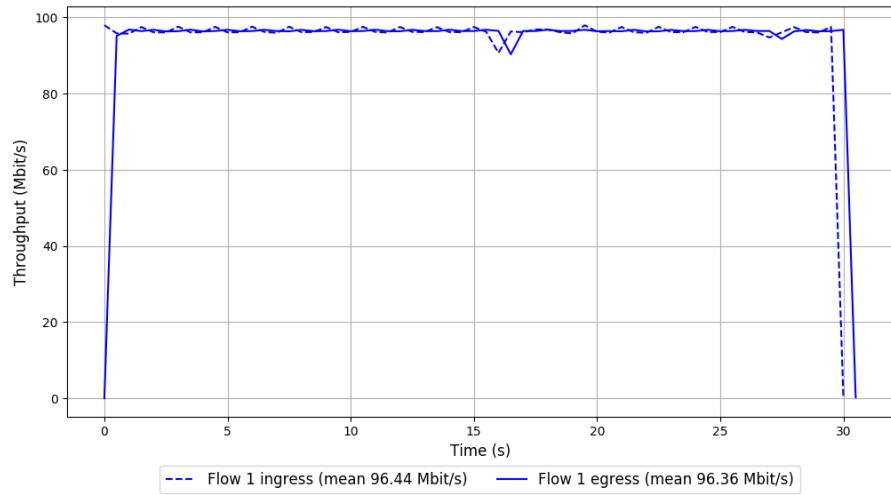


Run 5: Statistics of LEDBAT

```
Start at: 2019-10-03 08:52:31
End at: 2019-10-03 08:53:01
Local clock offset: -5.27 ms
Remote clock offset: 0.715 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 9.747 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 9.747 ms
Loss rate: 0.10%
```

Run 5: Report of LEDBAT — Data Link

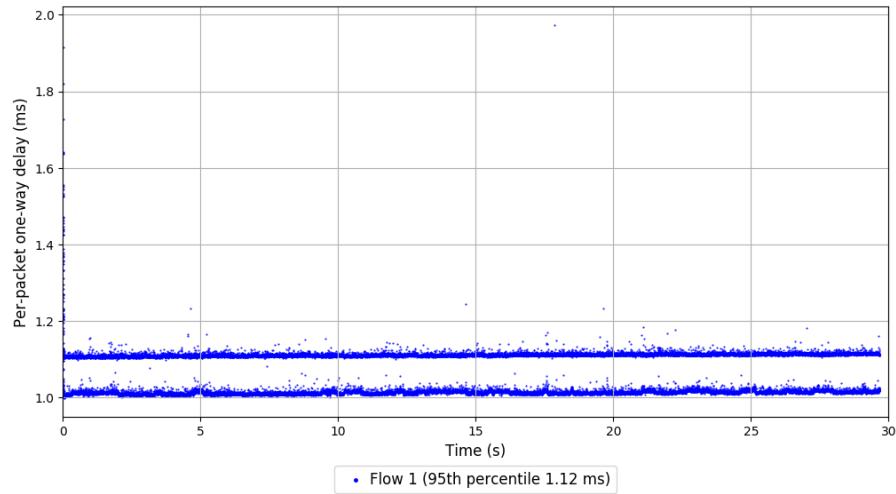
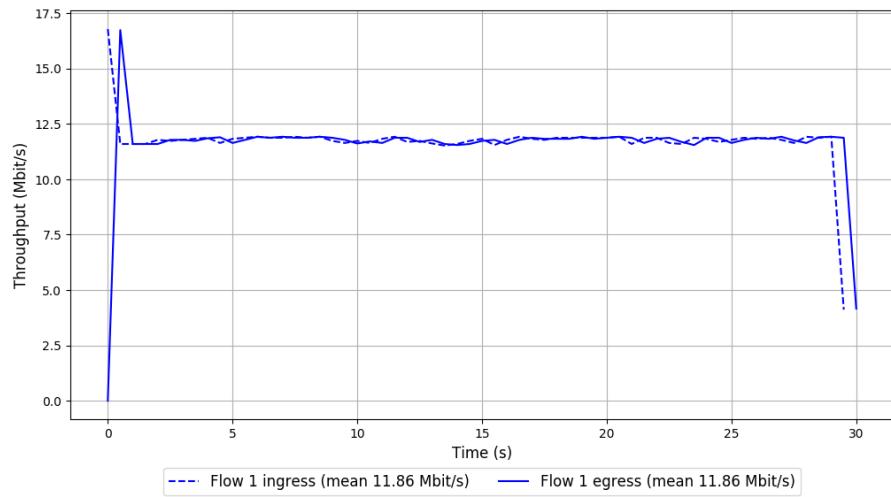


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-10-03 07:08:31
End at: 2019-10-03 07:09:01
Local clock offset: -5.634 ms
Remote clock offset: 0.215 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 1.117 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 1.117 ms
Loss rate: 0.00%
```

Run 1: Report of Muses\_DecisionTree — Data Link

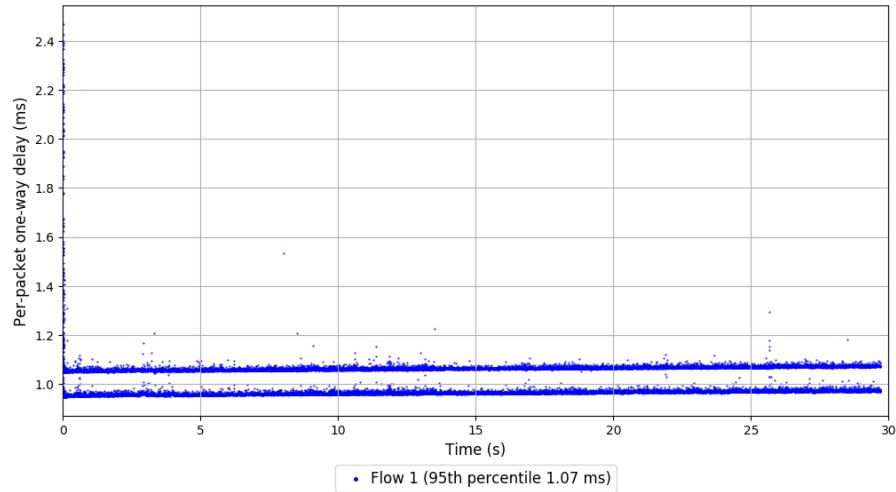
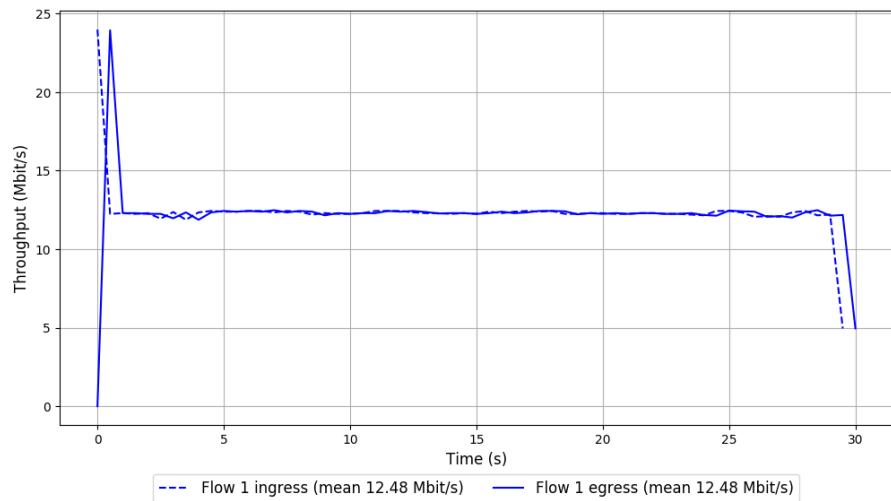


```
Run 2: Statistics of Muses\_DecisionTree
```

```
Start at: 2019-10-03 07:35:19
End at: 2019-10-03 07:35:49
Local clock offset: -6.385 ms
Remote clock offset: 0.61 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.48 Mbit/s
95th percentile per-packet one-way delay: 1.073 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.48 Mbit/s
95th percentile per-packet one-way delay: 1.073 ms
Loss rate: 0.01%
```

## Run 2: Report of Muses\_DecisionTree — Data Link

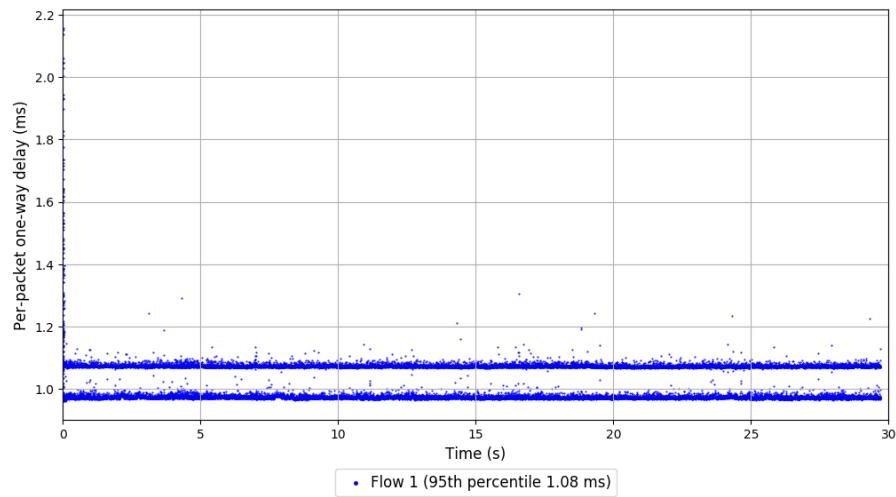
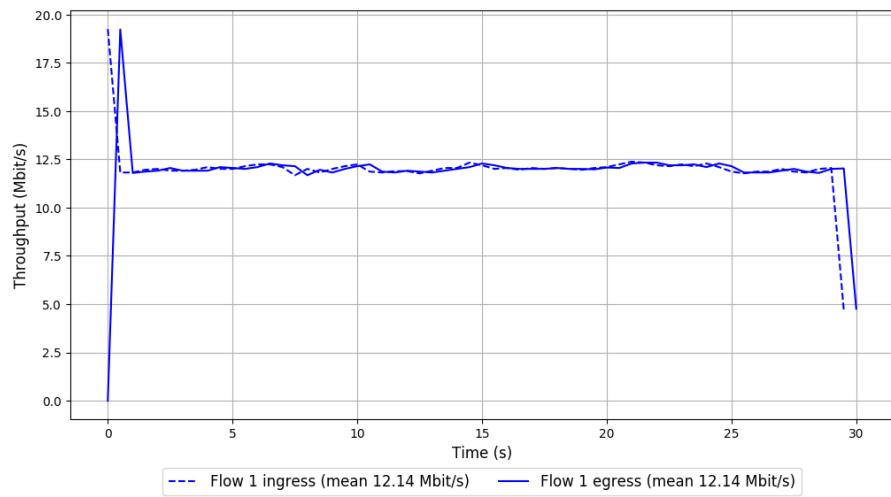


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-10-03 08:02:08
End at: 2019-10-03 08:02:38
Local clock offset: -6.691 ms
Remote clock offset: 0.727 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.14 Mbit/s
95th percentile per-packet one-way delay: 1.078 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.14 Mbit/s
95th percentile per-packet one-way delay: 1.078 ms
Loss rate: 0.00%
```

Run 3: Report of Muses\_DecisionTree — Data Link

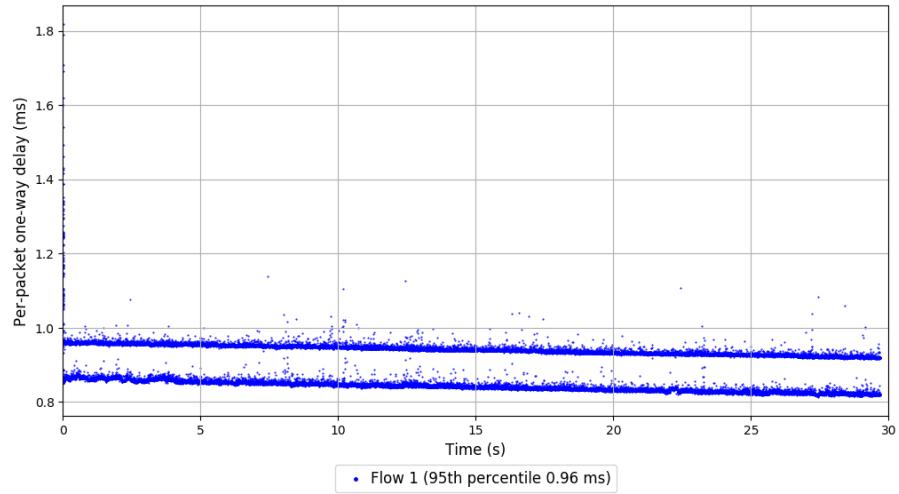
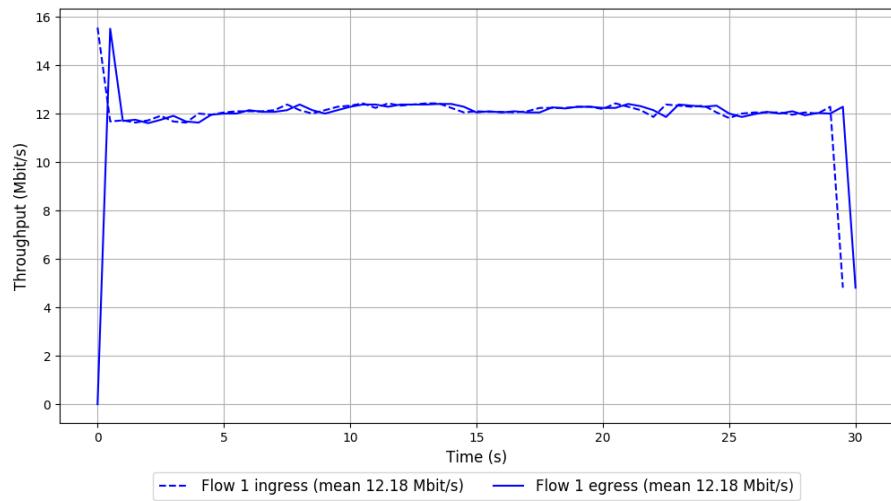


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-10-03 08:29:00
End at: 2019-10-03 08:29:30
Local clock offset: -6.118 ms
Remote clock offset: 0.905 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.18 Mbit/s
95th percentile per-packet one-way delay: 0.958 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.18 Mbit/s
95th percentile per-packet one-way delay: 0.958 ms
Loss rate: 0.01%
```

Run 4: Report of Muses\_DecisionTree — Data Link

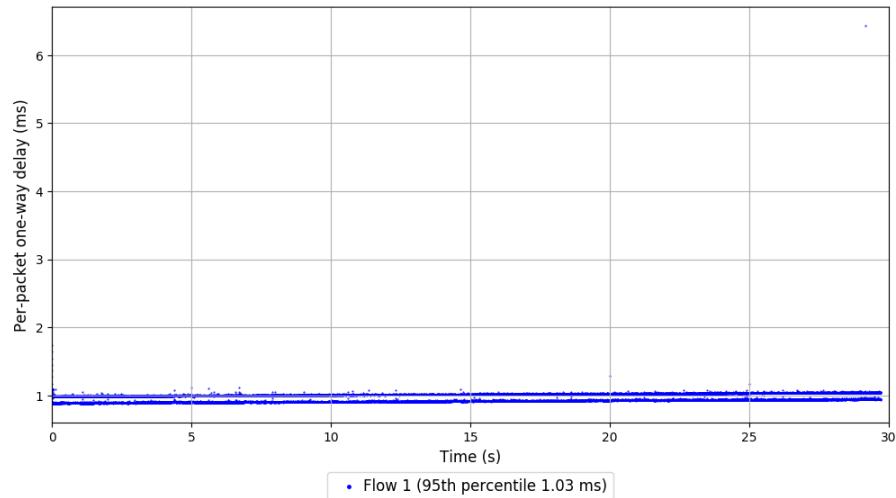
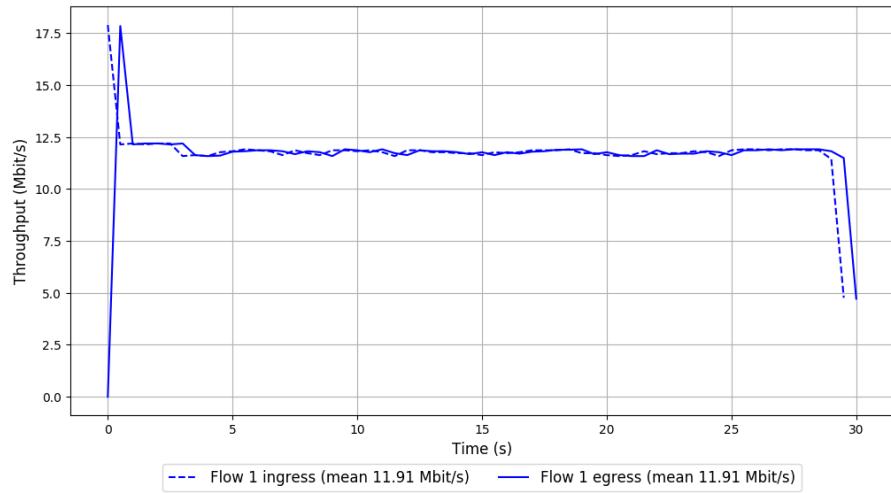


```
Run 5: Statistics of Muses\_DecisionTree
```

```
Start at: 2019-10-03 08:55:53
End at: 2019-10-03 08:56:23
Local clock offset: -5.474 ms
Remote clock offset: 0.826 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 1.035 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 1.035 ms
Loss rate: 0.01%
```

Run 5: Report of Muses\_DecisionTree — Data Link

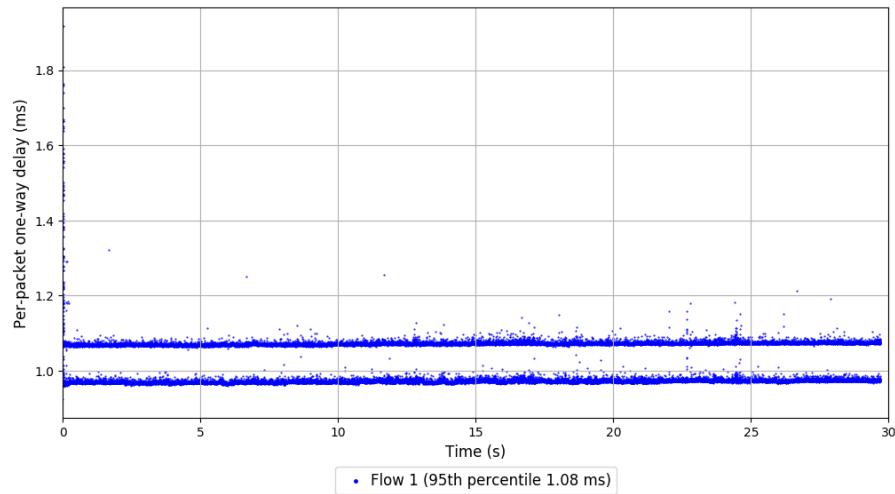
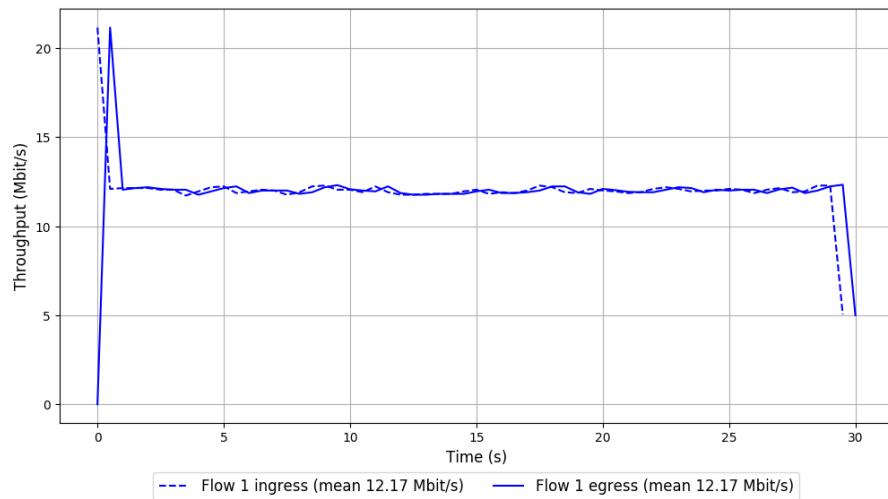


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 07:20:42
End at: 2019-10-03 07:21:12
Local clock offset: -5.672 ms
Remote clock offset: 0.381 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.17 Mbit/s
95th percentile per-packet one-way delay: 1.078 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.17 Mbit/s
95th percentile per-packet one-way delay: 1.078 ms
Loss rate: 0.01%
```

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

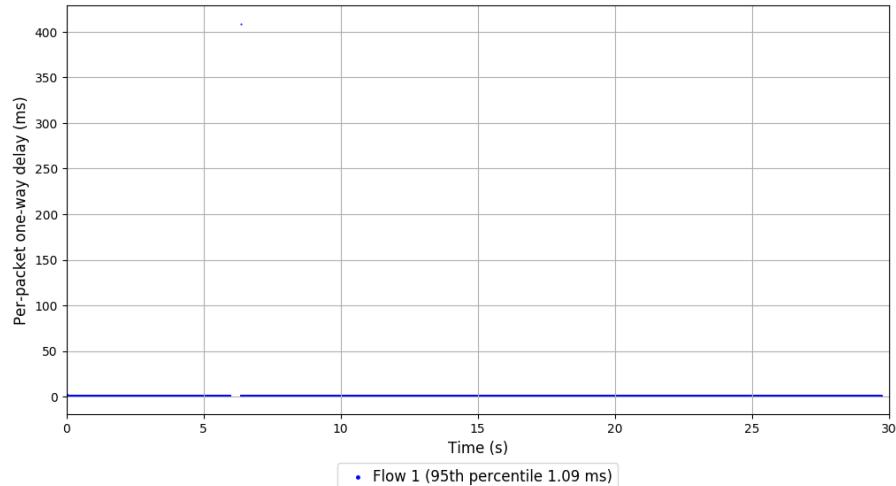
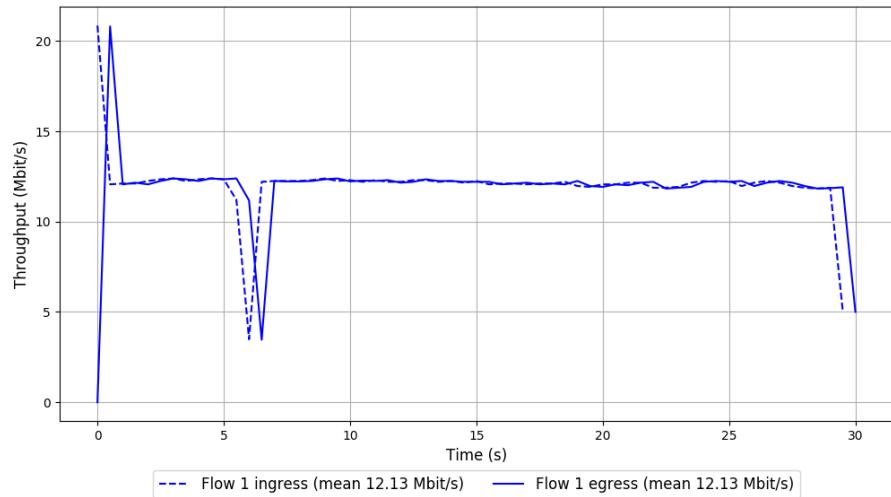


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 07:47:29
End at: 2019-10-03 07:47:59
Local clock offset: -6.711 ms
Remote clock offset: 0.659 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.01%
```

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

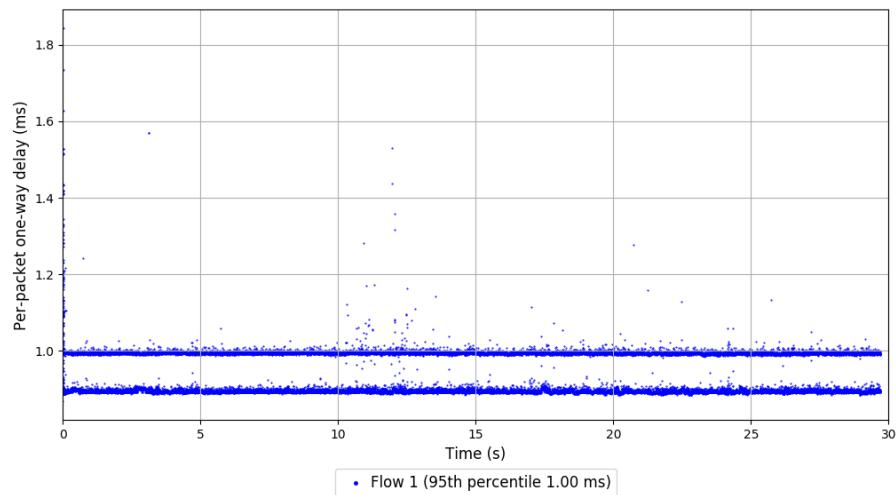
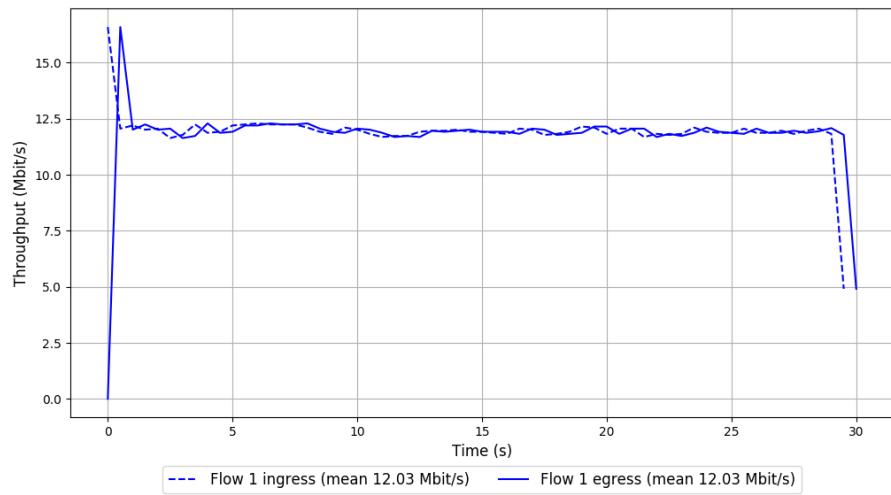


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 08:14:18
End at: 2019-10-03 08:14:48
Local clock offset: -6.558 ms
Remote clock offset: 0.927 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 0.998 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 0.998 ms
Loss rate: 0.01%
```

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

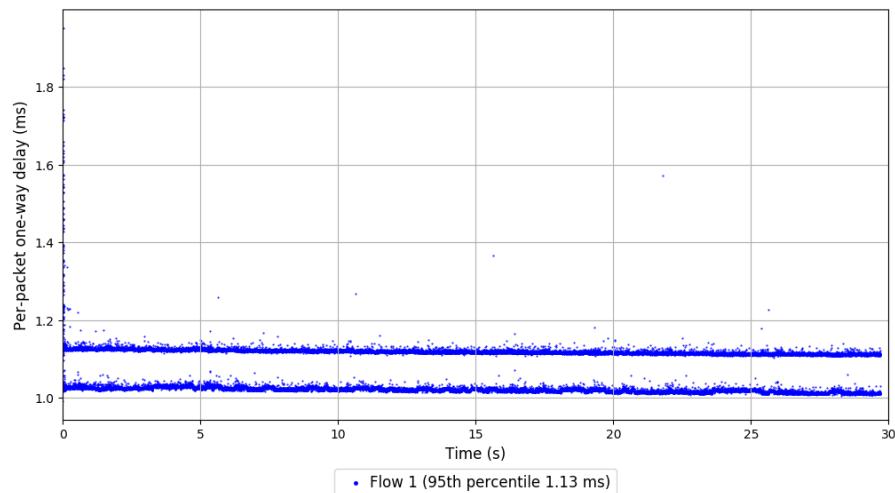
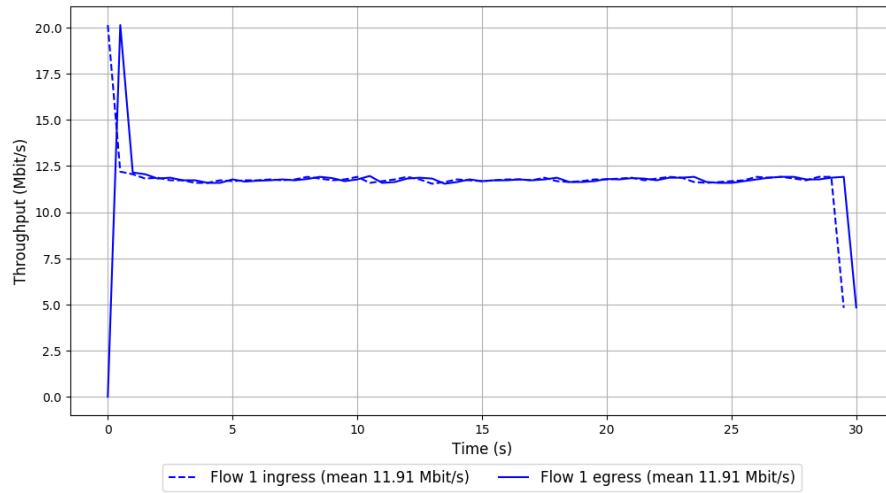


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 08:41:11
End at: 2019-10-03 08:41:41
Local clock offset: -5.502 ms
Remote clock offset: 0.725 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 0.00%
```

Run 4: Report of Muses\_DecisionTreeH0 — Data Link

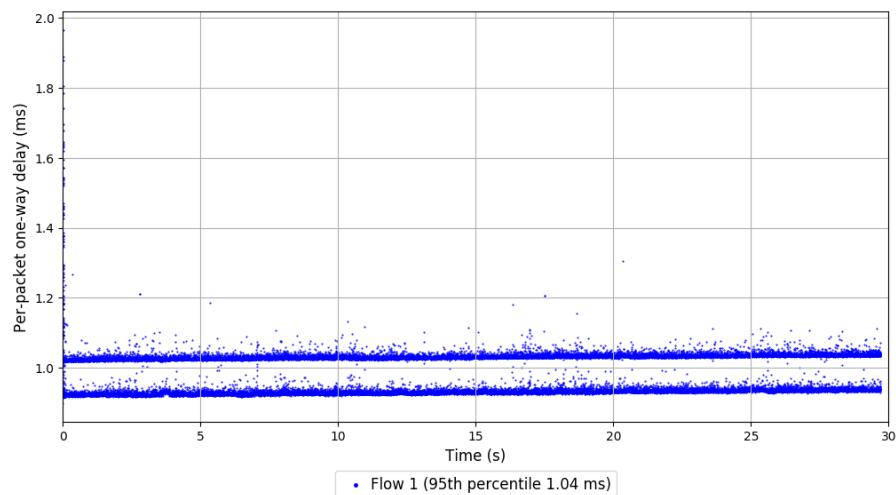
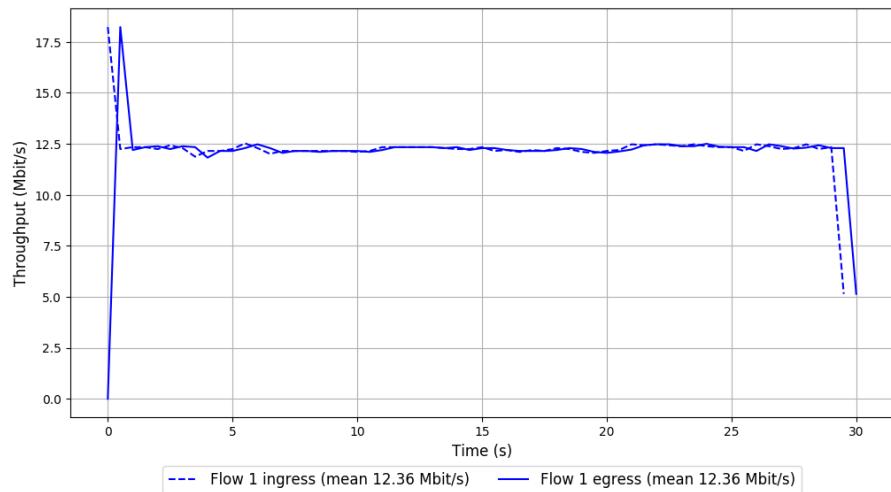


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 09:08:04
End at: 2019-10-03 09:08:34
Local clock offset: -6.272 ms
Remote clock offset: 0.688 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.36 Mbit/s
95th percentile per-packet one-way delay: 1.040 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.36 Mbit/s
95th percentile per-packet one-way delay: 1.040 ms
Loss rate: 0.01%
```

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

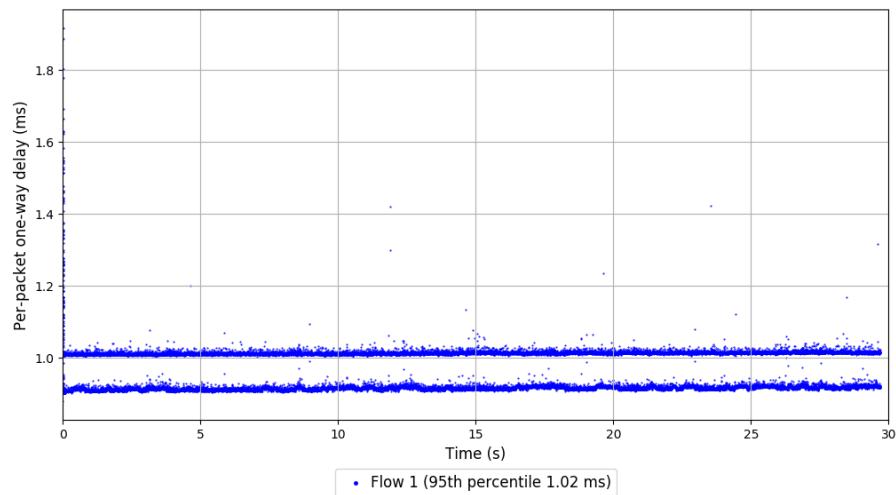
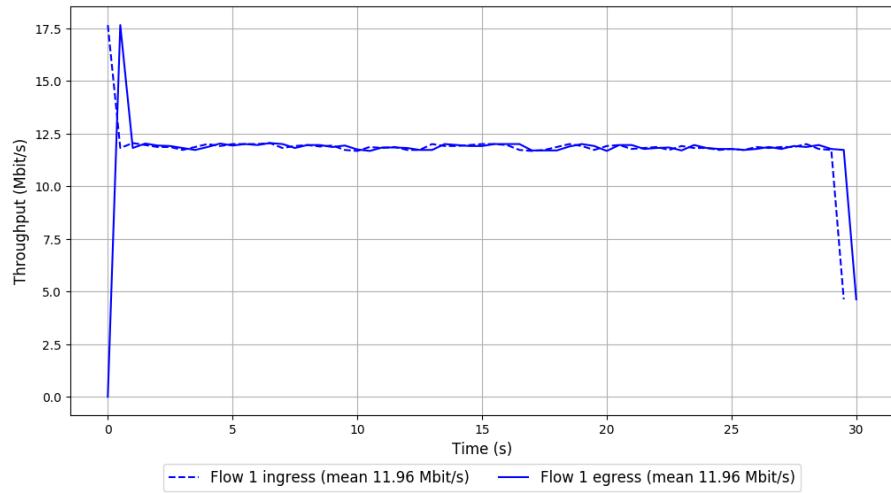


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 07:15:08
End at: 2019-10-03 07:15:38
Local clock offset: -5.719 ms
Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.96 Mbit/s
95th percentile per-packet one-way delay: 1.018 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.96 Mbit/s
95th percentile per-packet one-way delay: 1.018 ms
Loss rate: 0.01%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

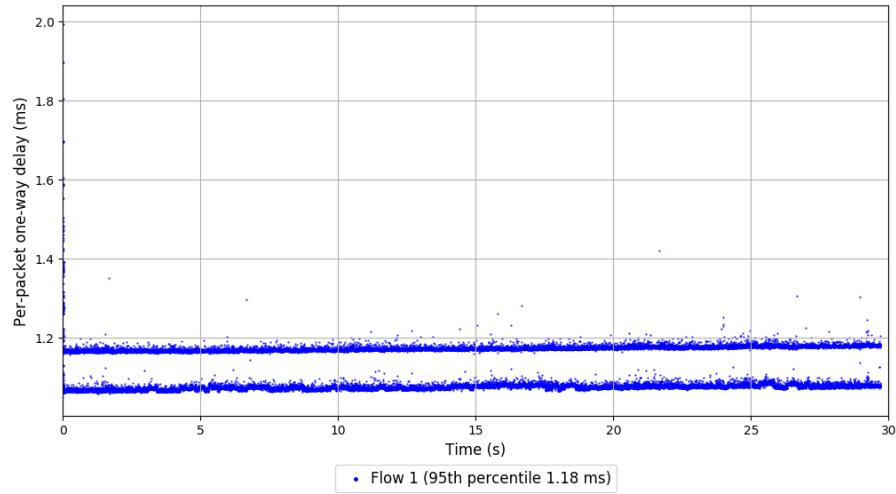
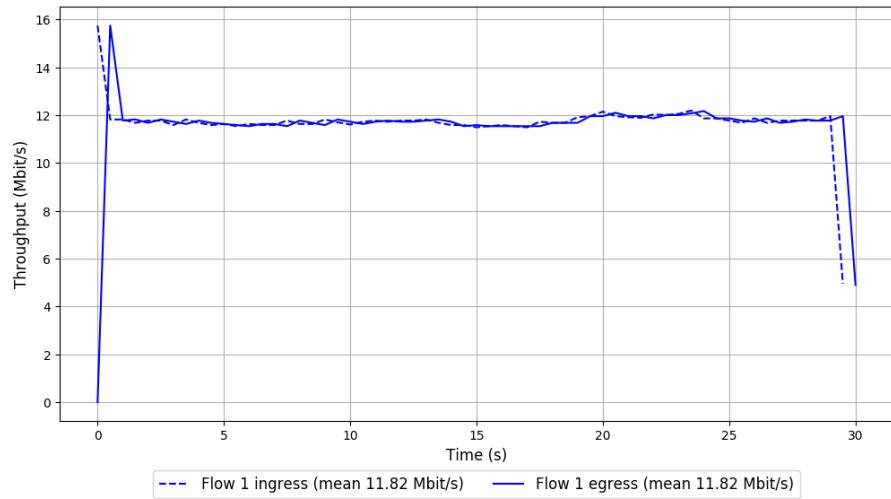


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 07:41:56
End at: 2019-10-03 07:42:26
Local clock offset: -6.577 ms
Remote clock offset: 0.552 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 1.181 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 1.181 ms
Loss rate: 0.01%
```

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

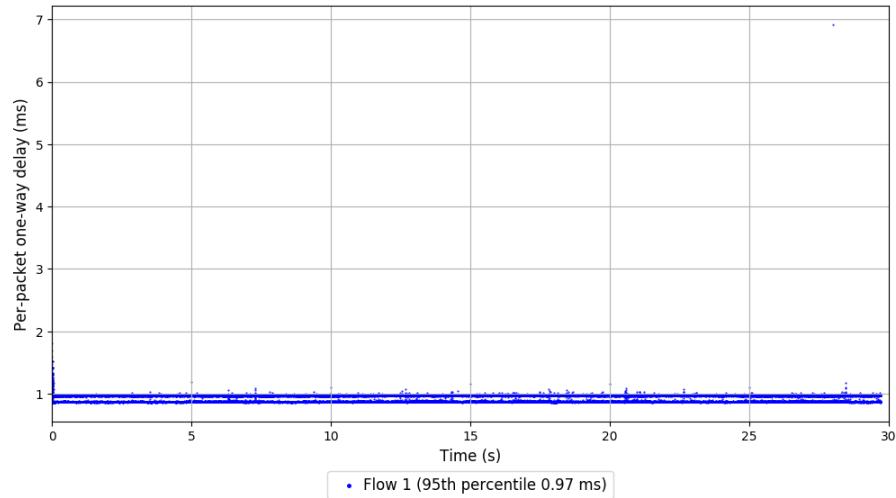
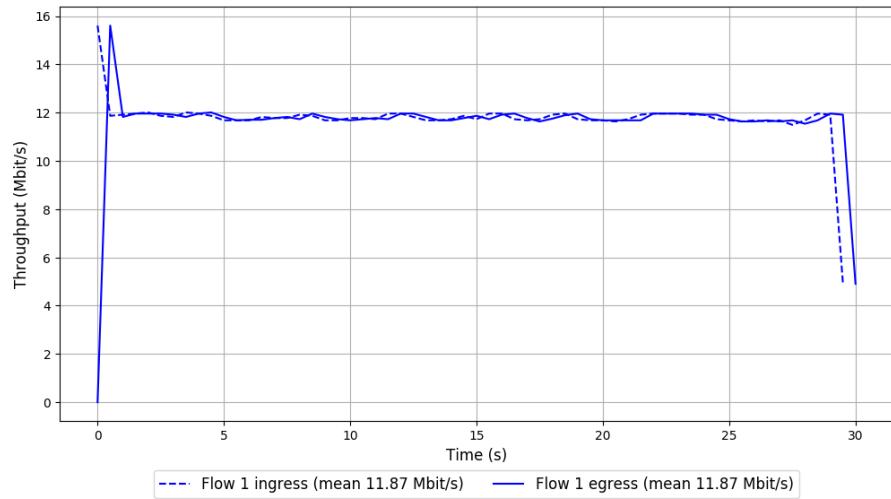


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 08:08:45
End at: 2019-10-03 08:09:15
Local clock offset: -6.574 ms
Remote clock offset: 0.958 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.87 Mbit/s
95th percentile per-packet one-way delay: 0.974 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.87 Mbit/s
95th percentile per-packet one-way delay: 0.974 ms
Loss rate: 0.01%
```

Run 3: Report of Muses\_DecisionTreeR0 — Data Link

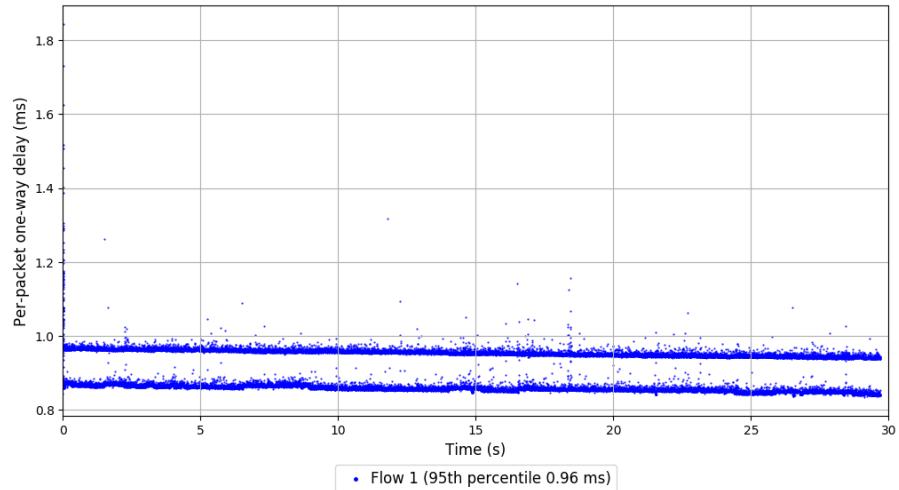
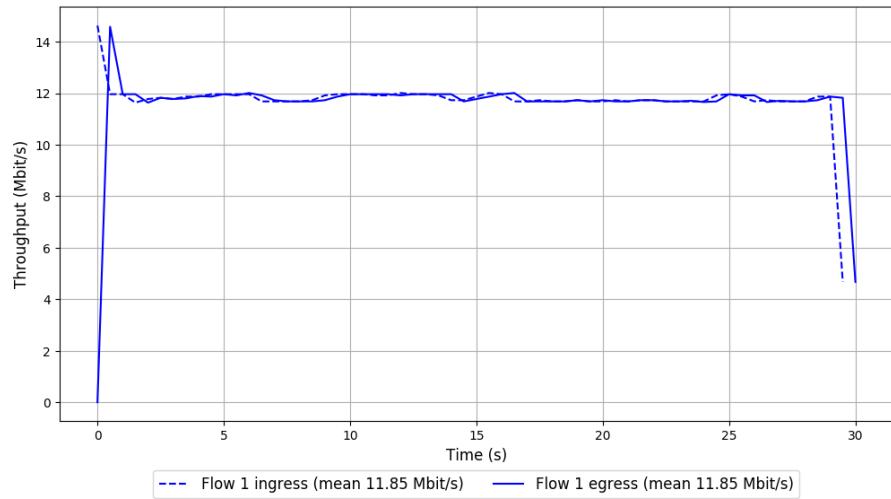


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 08:35:37
End at: 2019-10-03 08:36:07
Local clock offset: -5.779 ms
Remote clock offset: 0.83 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 0.965 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 0.965 ms
Loss rate: 0.01%
```

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

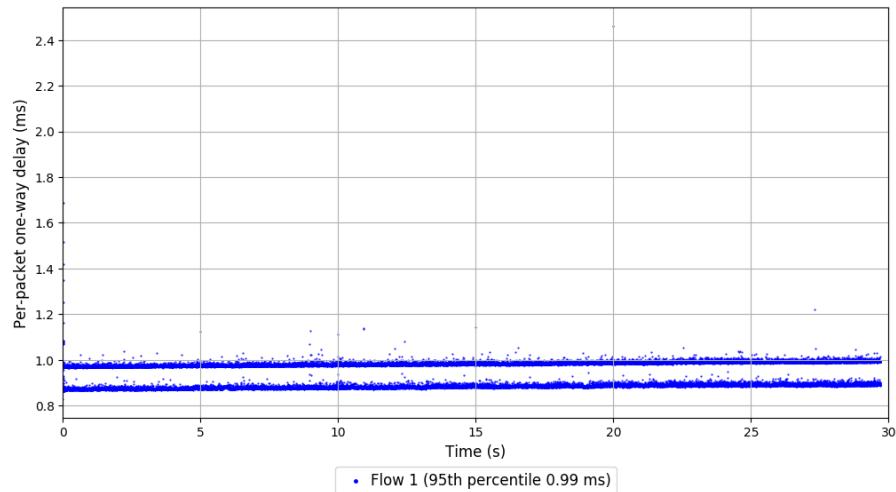
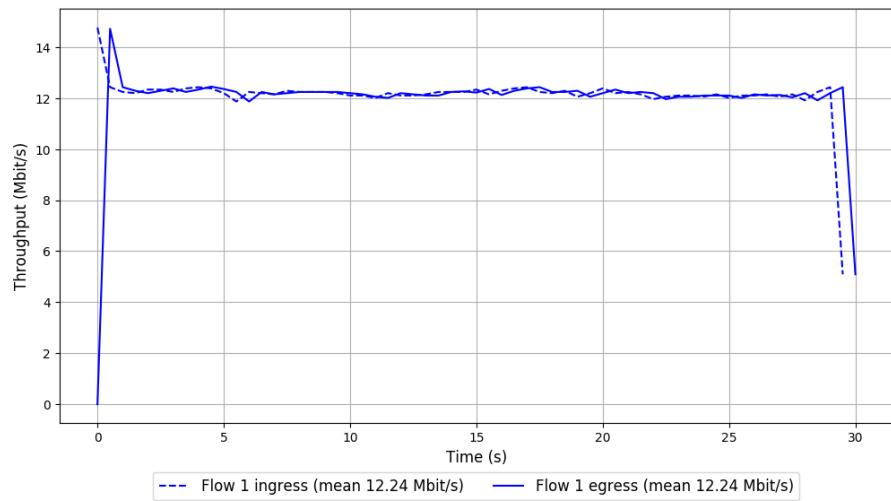


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 09:02:31
End at: 2019-10-03 09:03:01
Local clock offset: -6.085 ms
Remote clock offset: 0.722 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 0.995 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 0.995 ms
Loss rate: 0.01%
```

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

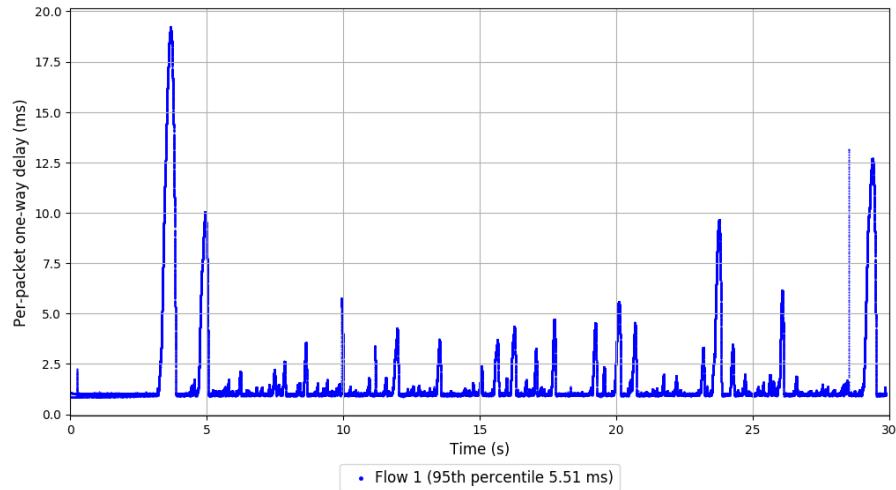
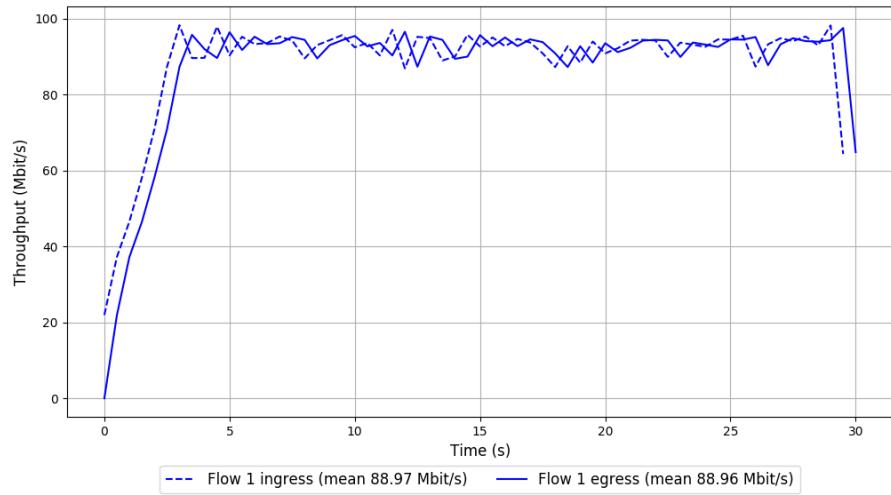


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-10-03 06:56:00
End at: 2019-10-03 06:56:30
Local clock offset: -5.506 ms
Remote clock offset: 0.119 ms

# Below is generated by plot.py at 2019-10-03 09:21:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.96 Mbit/s
95th percentile per-packet one-way delay: 5.510 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.96 Mbit/s
95th percentile per-packet one-way delay: 5.510 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Allegro — Data Link

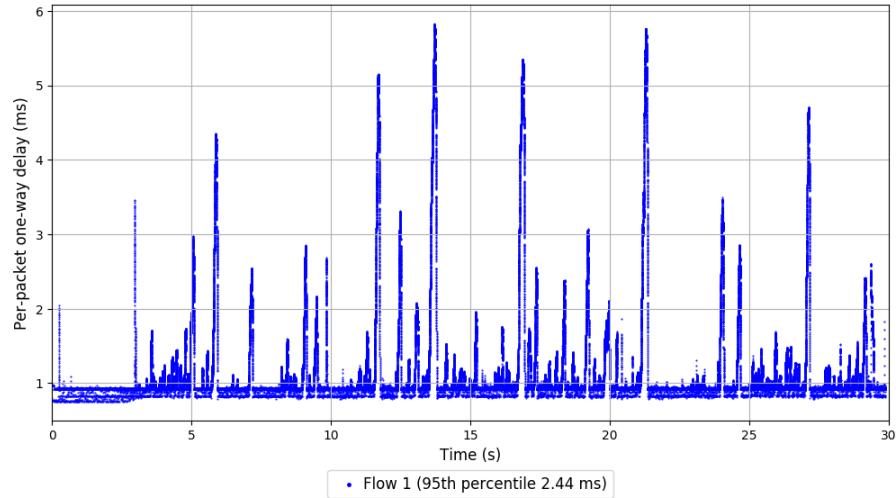
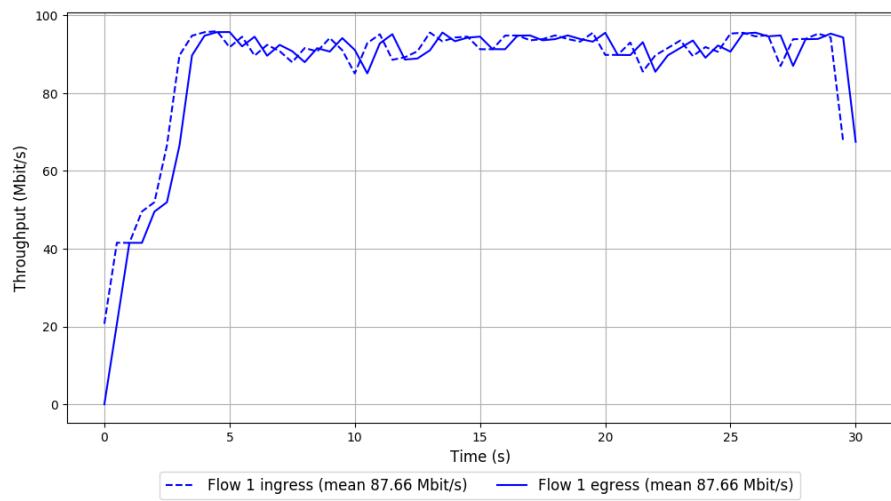


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-10-03 07:22:54
End at: 2019-10-03 07:23:24
Local clock offset: -5.701 ms
Remote clock offset: 0.442 ms

# Below is generated by plot.py at 2019-10-03 09:21:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.66 Mbit/s
95th percentile per-packet one-way delay: 2.443 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.66 Mbit/s
95th percentile per-packet one-way delay: 2.443 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Allegro — Data Link

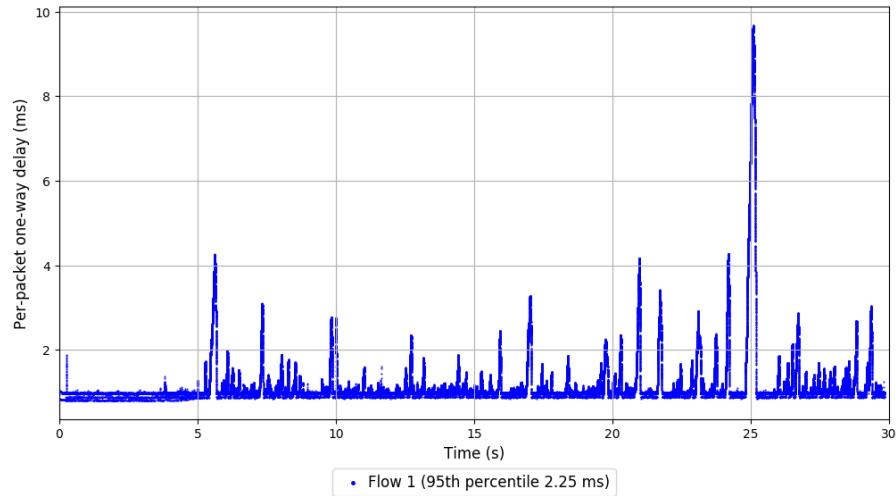
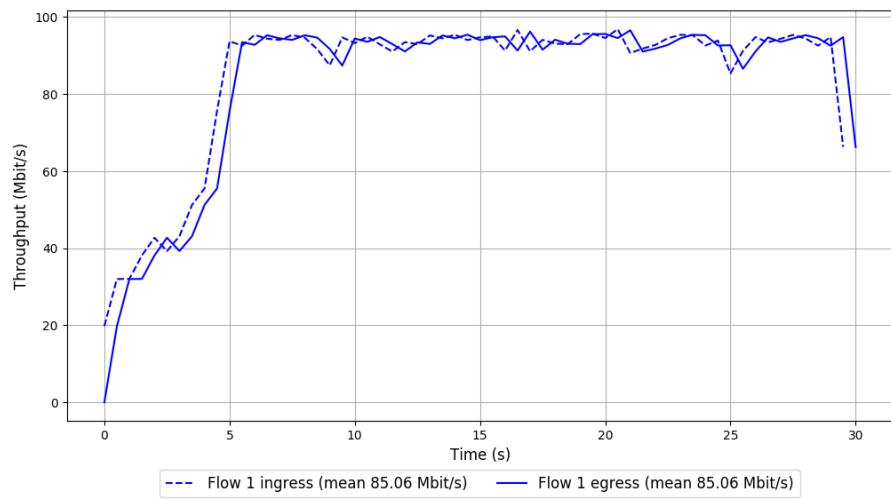


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-10-03 07:49:41
End at: 2019-10-03 07:50:11
Local clock offset: -6.771 ms
Remote clock offset: 0.662 ms

# Below is generated by plot.py at 2019-10-03 09:21:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.06 Mbit/s
95th percentile per-packet one-way delay: 2.249 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.06 Mbit/s
95th percentile per-packet one-way delay: 2.249 ms
Loss rate: 0.01%
```

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

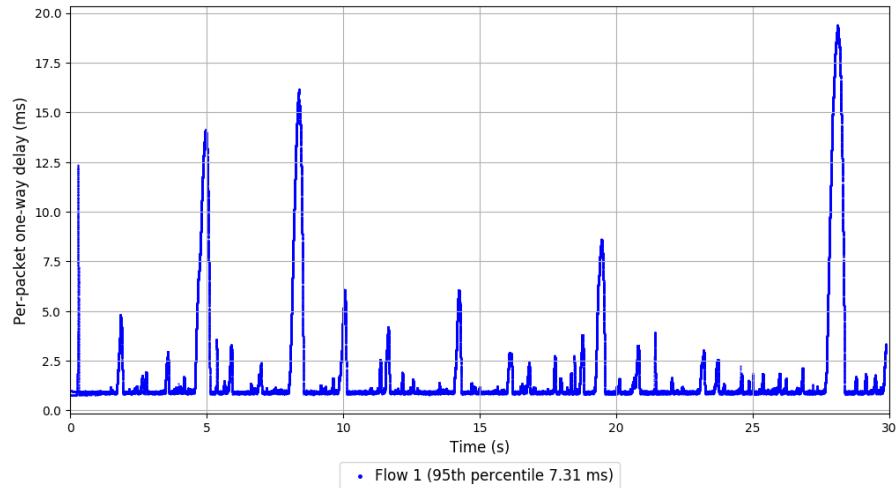
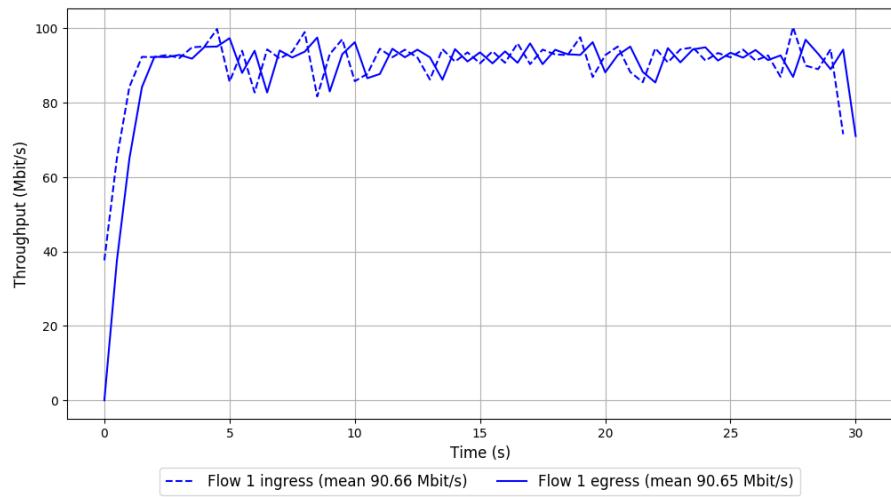


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-10-03 08:16:30
End at: 2019-10-03 08:17:00
Local clock offset: -6.552 ms
Remote clock offset: 0.868 ms

# Below is generated by plot.py at 2019-10-03 09:21:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 7.308 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 7.308 ms
Loss rate: 0.02%
```

Run 4: Report of PCC-Allegro — Data Link

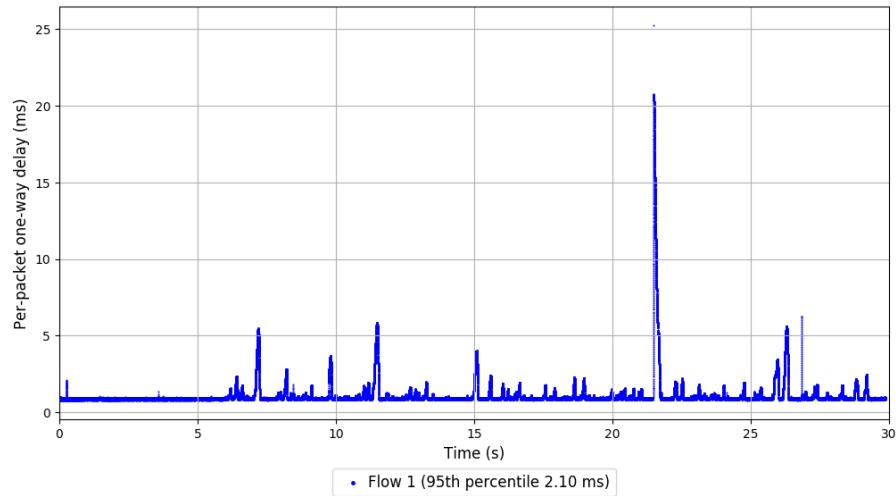
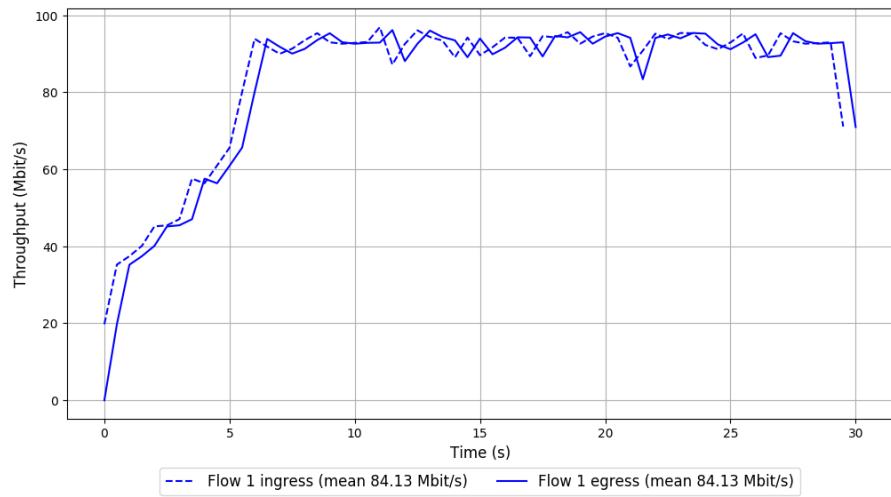


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-10-03 08:43:23
End at: 2019-10-03 08:43:53
Local clock offset: -5.438 ms
Remote clock offset: 0.822 ms

# Below is generated by plot.py at 2019-10-03 09:21:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.13 Mbit/s
95th percentile per-packet one-way delay: 2.096 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 84.13 Mbit/s
95th percentile per-packet one-way delay: 2.096 ms
Loss rate: 0.01%
```

Run 5: Report of PCC-Allegro — Data Link

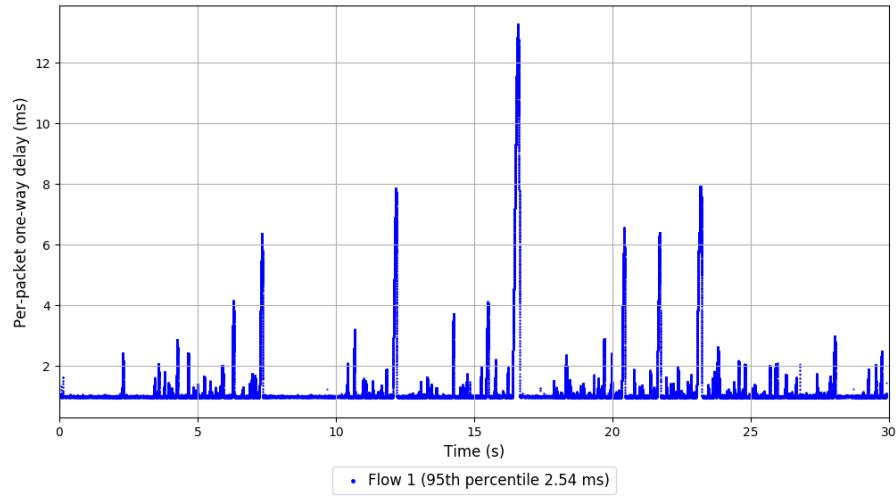
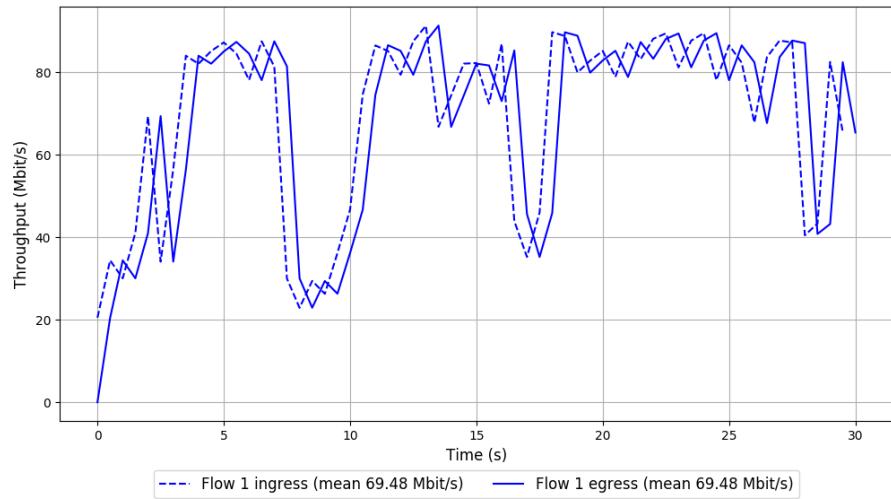


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-10-03 06:59:23
End at: 2019-10-03 06:59:53
Local clock offset: -5.552 ms
Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2019-10-03 09:21:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.48 Mbit/s
95th percentile per-packet one-way delay: 2.536 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 69.48 Mbit/s
95th percentile per-packet one-way delay: 2.536 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Expr — Data Link

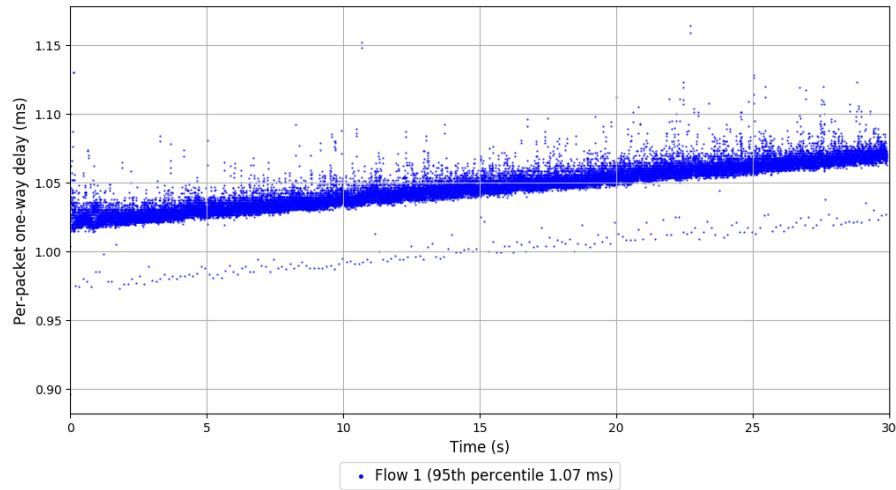
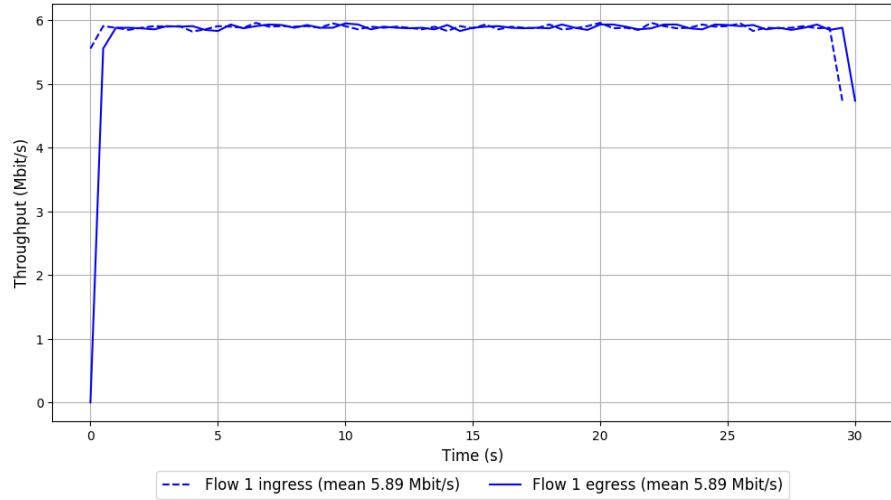


Run 2: Statistics of PCC-Expr

```
Start at: 2019-10-03 07:26:17
End at: 2019-10-03 07:26:47
Local clock offset: -5.821 ms
Remote clock offset: 0.455 ms

# Below is generated by plot.py at 2019-10-03 09:21:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 1.071 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 1.071 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Expr — Data Link

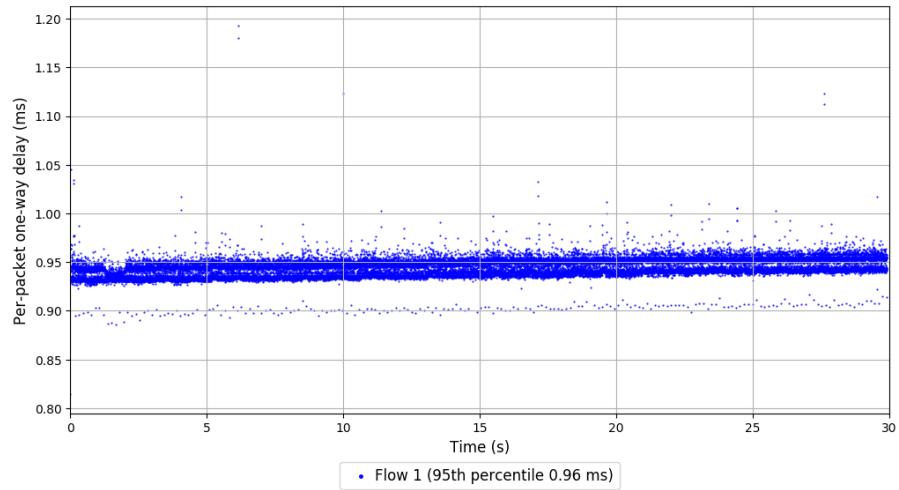
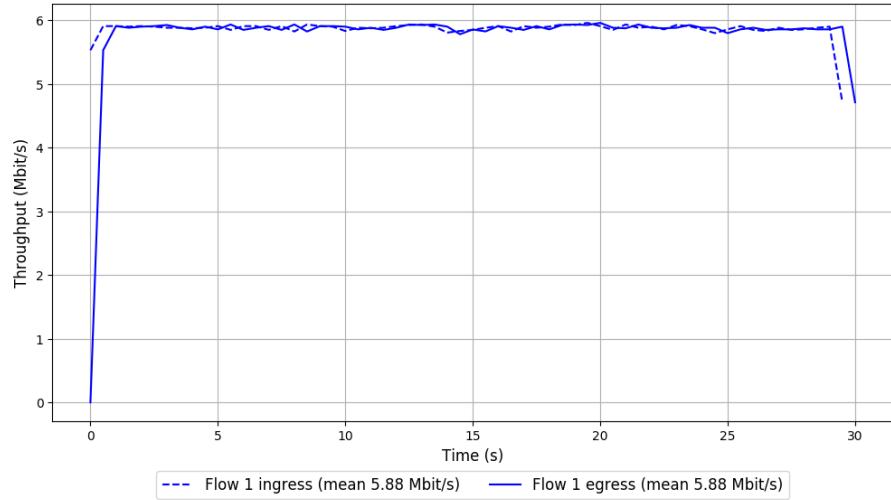


Run 3: Statistics of PCC-Expr

```
Start at: 2019-10-03 07:53:04
End at: 2019-10-03 07:53:34
Local clock offset: -6.805 ms
Remote clock offset: 0.746 ms

# Below is generated by plot.py at 2019-10-03 09:21:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 0.958 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 0.958 ms
Loss rate: 0.01%
```

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

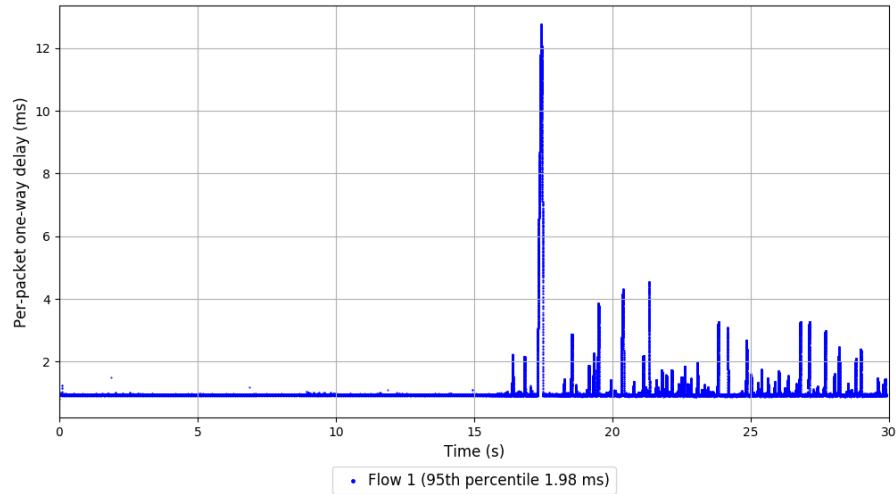
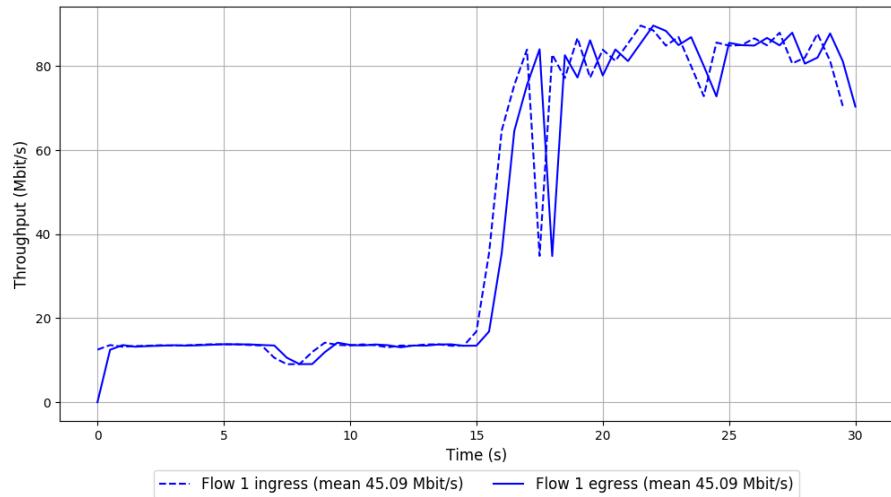


Run 4: Statistics of PCC-Expr

```
Start at: 2019-10-03 08:19:54
End at: 2019-10-03 08:20:24
Local clock offset: -6.563 ms
Remote clock offset: 0.885 ms

# Below is generated by plot.py at 2019-10-03 09:21:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.09 Mbit/s
95th percentile per-packet one-way delay: 1.979 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 45.09 Mbit/s
95th percentile per-packet one-way delay: 1.979 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Expr — Data Link

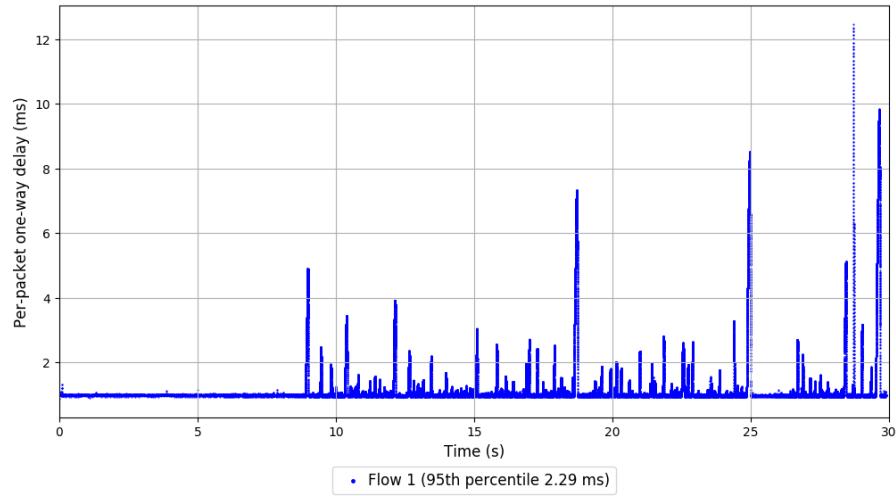
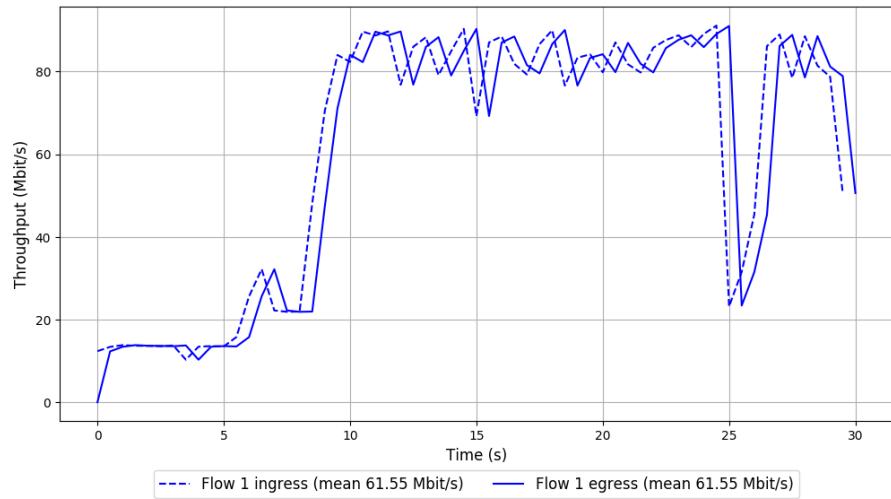


Run 5: Statistics of PCC-Expr

```
Start at: 2019-10-03 08:46:46
End at: 2019-10-03 08:47:16
Local clock offset: -5.36 ms
Remote clock offset: 0.773 ms

# Below is generated by plot.py at 2019-10-03 09:21:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.55 Mbit/s
95th percentile per-packet one-way delay: 2.294 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.55 Mbit/s
95th percentile per-packet one-way delay: 2.294 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Expr — Data Link

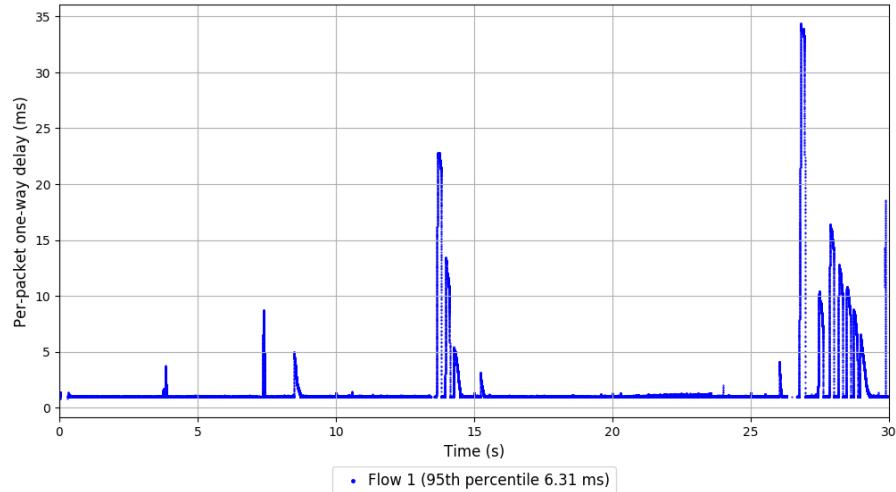
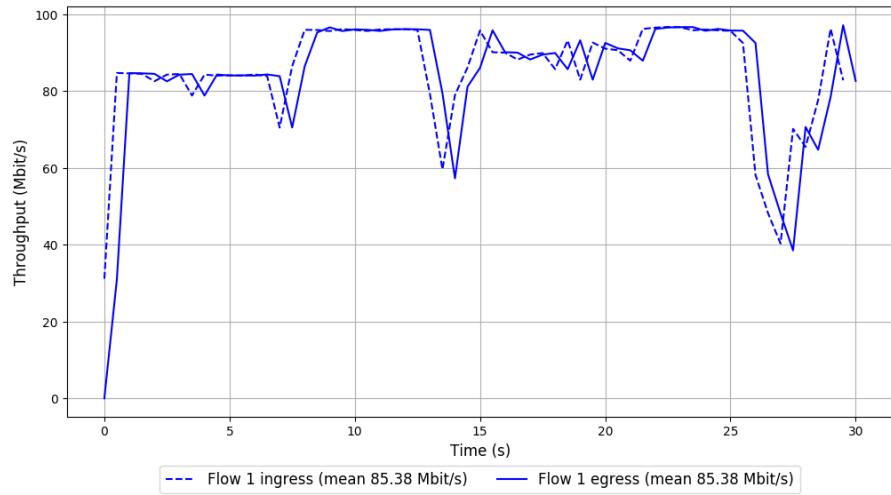


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-10-03 07:12:56
End at: 2019-10-03 07:13:26
Local clock offset: -5.668 ms
Remote clock offset: 0.291 ms

# Below is generated by plot.py at 2019-10-03 09:22:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.38 Mbit/s
95th percentile per-packet one-way delay: 6.309 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.38 Mbit/s
95th percentile per-packet one-way delay: 6.309 ms
Loss rate: 0.01%
```

Run 1: Report of QUIC Cubic — Data Link

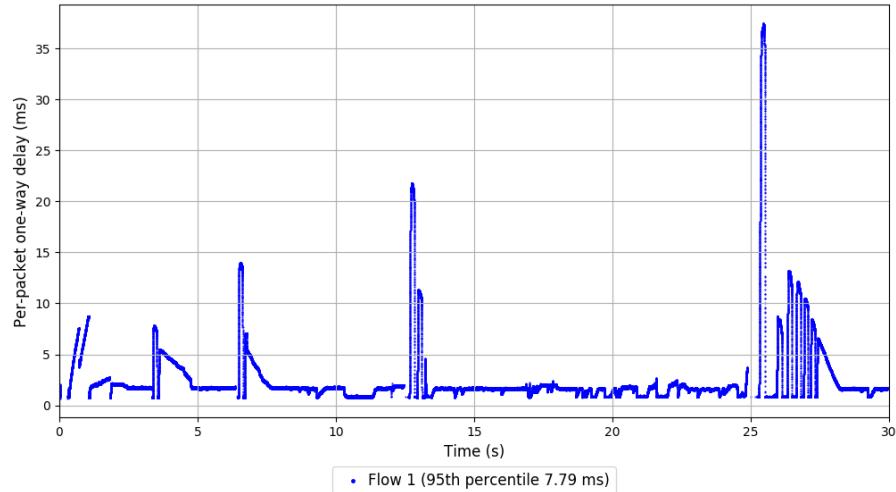
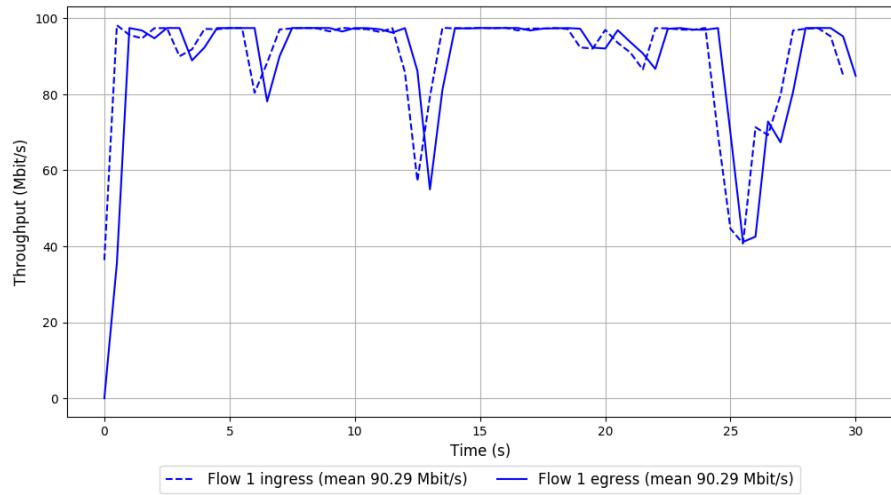


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-10-03 07:39:43
End at: 2019-10-03 07:40:13
Local clock offset: -6.612 ms
Remote clock offset: 0.694 ms

# Below is generated by plot.py at 2019-10-03 09:22:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.29 Mbit/s
95th percentile per-packet one-way delay: 7.793 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 90.29 Mbit/s
95th percentile per-packet one-way delay: 7.793 ms
Loss rate: 0.01%
```

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

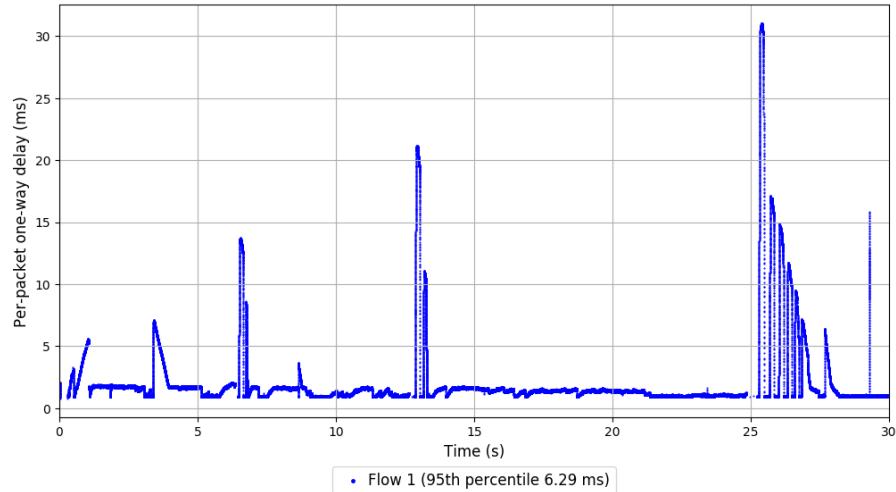
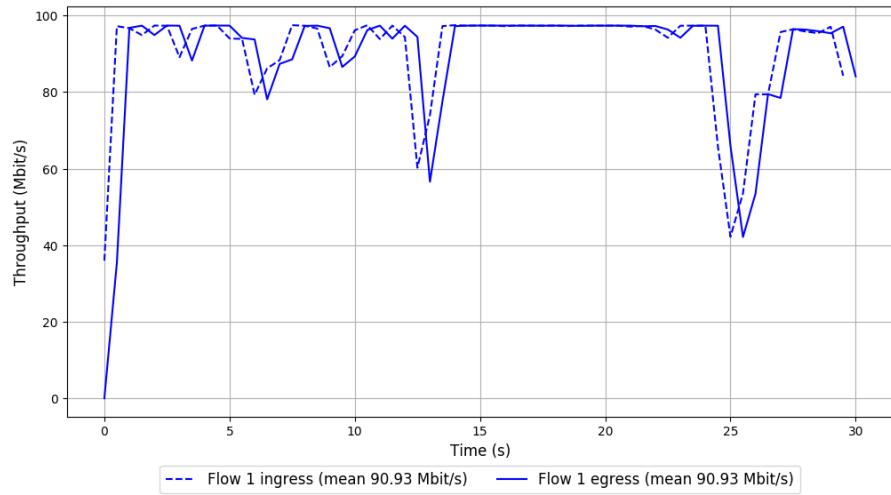


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-10-03 08:06:32
End at: 2019-10-03 08:07:02
Local clock offset: -6.623 ms
Remote clock offset: 0.858 ms

# Below is generated by plot.py at 2019-10-03 09:22:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.93 Mbit/s
95th percentile per-packet one-way delay: 6.294 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 90.93 Mbit/s
95th percentile per-packet one-way delay: 6.294 ms
Loss rate: 0.01%
```

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

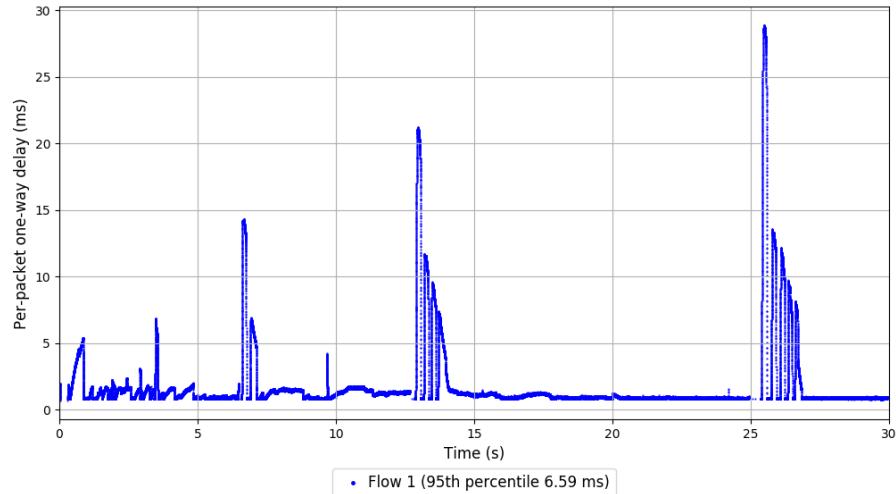
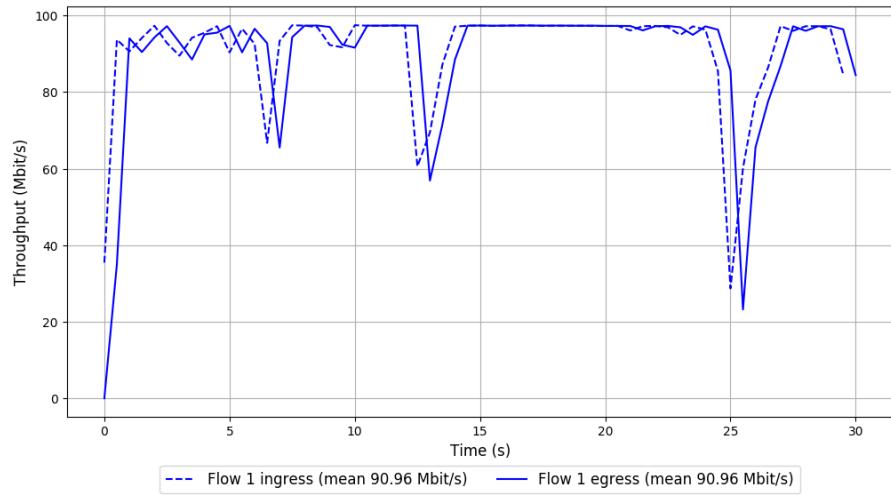


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-10-03 08:33:25
End at: 2019-10-03 08:33:55
Local clock offset: -5.86 ms
Remote clock offset: 0.918 ms

# Below is generated by plot.py at 2019-10-03 09:22:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.96 Mbit/s
95th percentile per-packet one-way delay: 6.593 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 90.96 Mbit/s
95th percentile per-packet one-way delay: 6.593 ms
Loss rate: 0.01%
```

Run 4: Report of QUIC Cubic — Data Link

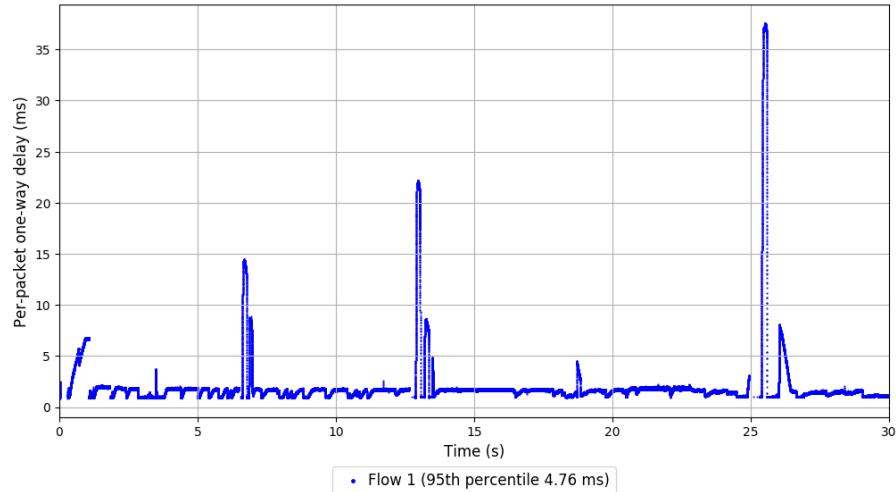
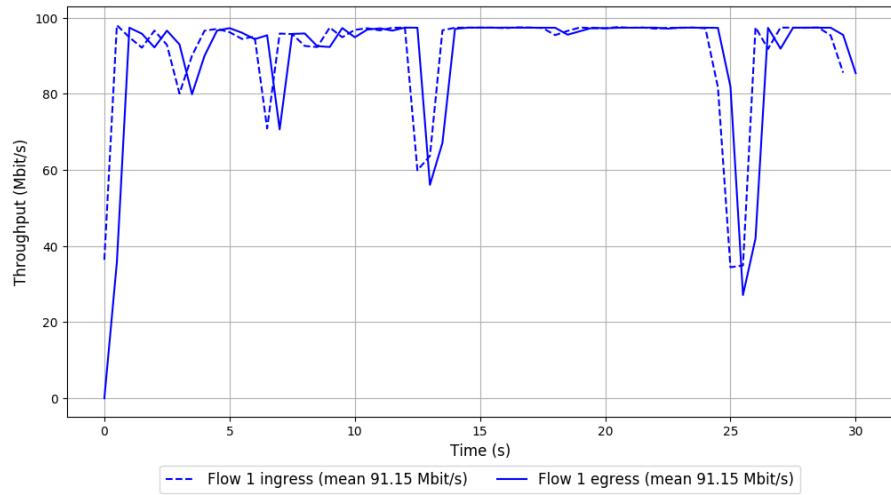


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-10-03 09:00:18
End at: 2019-10-03 09:00:48
Local clock offset: -5.832 ms
Remote clock offset: 0.784 ms

# Below is generated by plot.py at 2019-10-03 09:22:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.15 Mbit/s
95th percentile per-packet one-way delay: 4.756 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 91.15 Mbit/s
95th percentile per-packet one-way delay: 4.756 ms
Loss rate: 0.01%
```

Run 5: Report of QUIC Cubic — Data Link

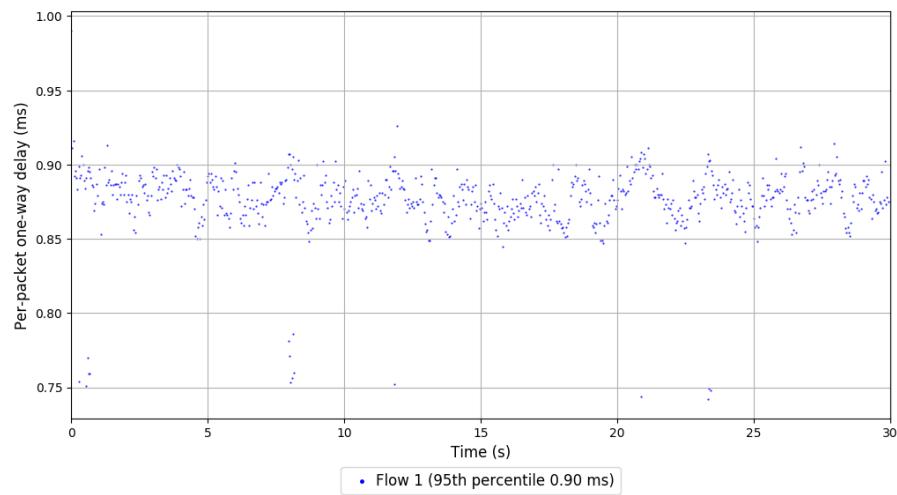
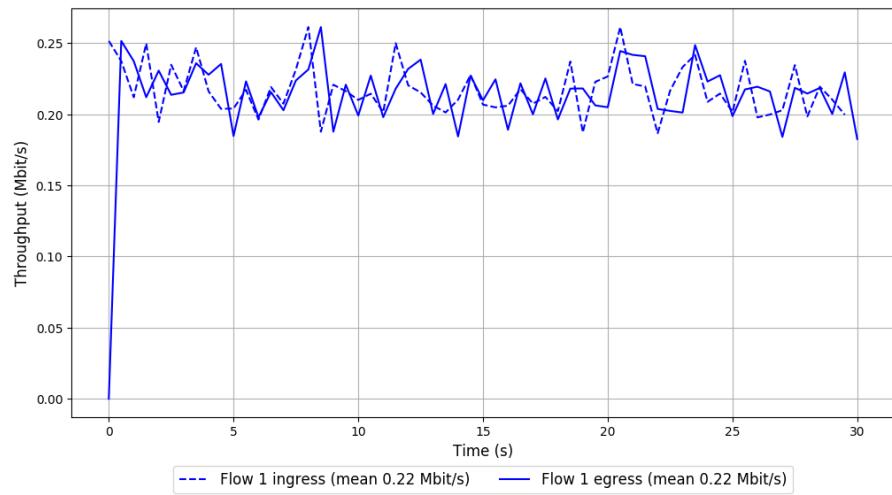


Run 1: Statistics of SCReAM

```
Start at: 2019-10-03 07:14:04
End at: 2019-10-03 07:14:34
Local clock offset: -5.728 ms
Remote clock offset: 0.324 ms

# Below is generated by plot.py at 2019-10-03 09:22:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.900 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.900 ms
Loss rate: 0.13%
```

Run 1: Report of SCReAM — Data Link

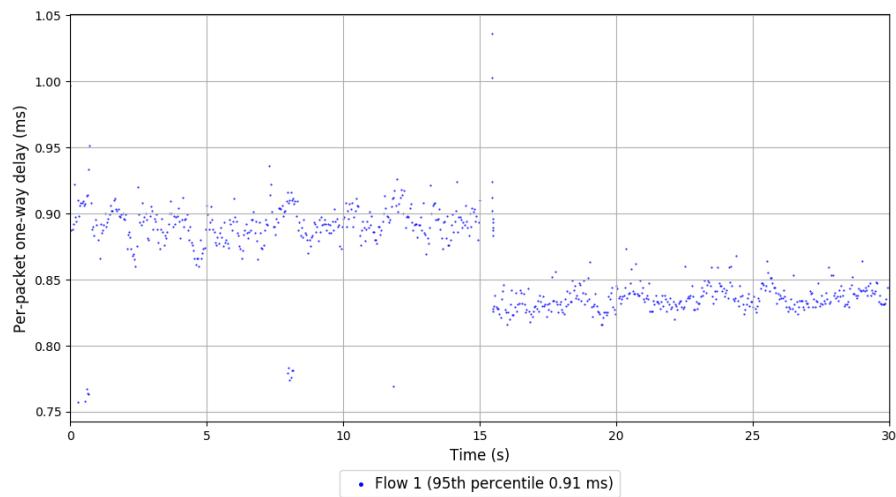
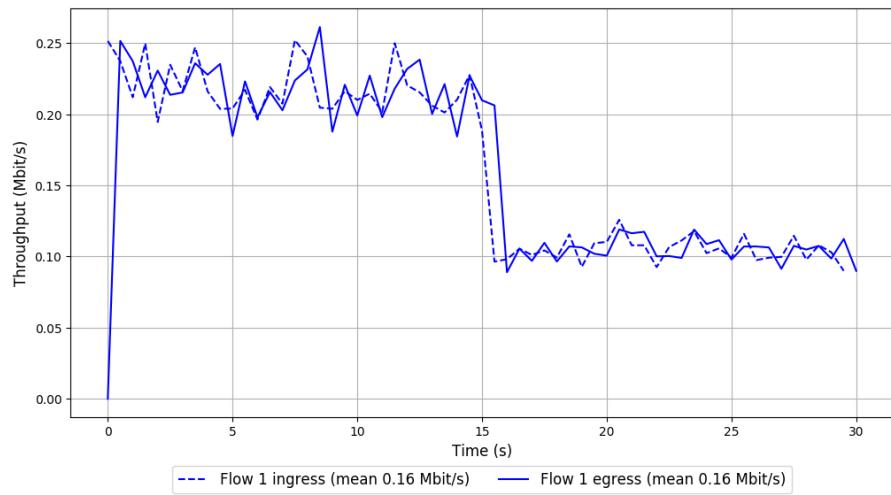


Run 2: Statistics of SCReAM

```
Start at: 2019-10-03 07:40:51
End at: 2019-10-03 07:41:21
Local clock offset: -6.636 ms
Remote clock offset: 0.612 ms

# Below is generated by plot.py at 2019-10-03 09:22:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 0.909 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 0.909 ms
Loss rate: 0.00%
```

## Run 2: Report of SCReAM — Data Link

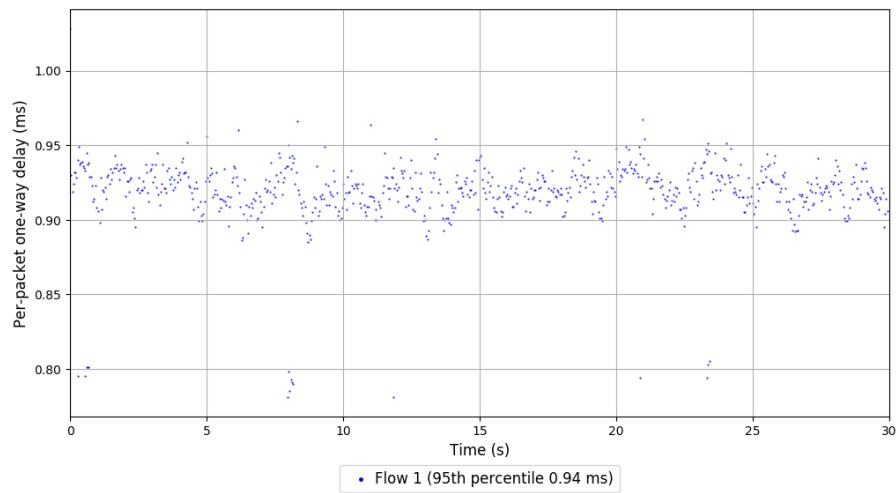
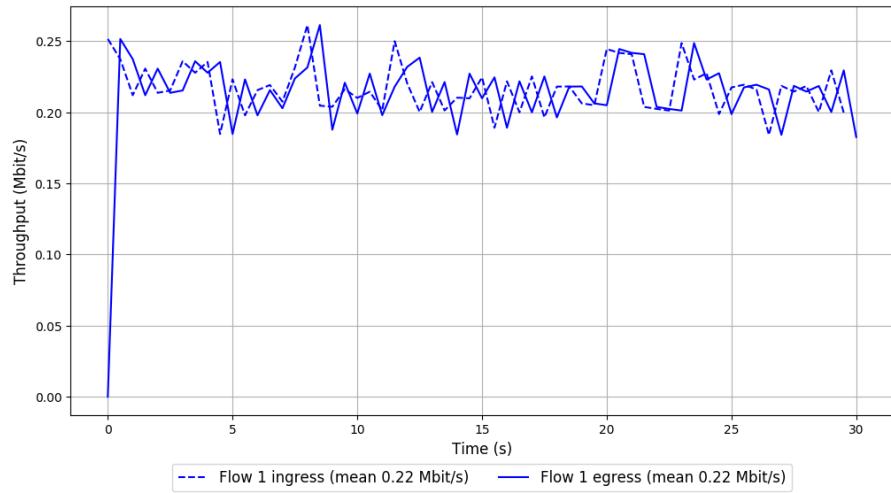


Run 3: Statistics of SCReAM

```
Start at: 2019-10-03 08:07:41
End at: 2019-10-03 08:08:11
Local clock offset: -6.564 ms
Remote clock offset: 0.912 ms

# Below is generated by plot.py at 2019-10-03 09:22:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.942 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.942 ms
Loss rate: 0.13%
```

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

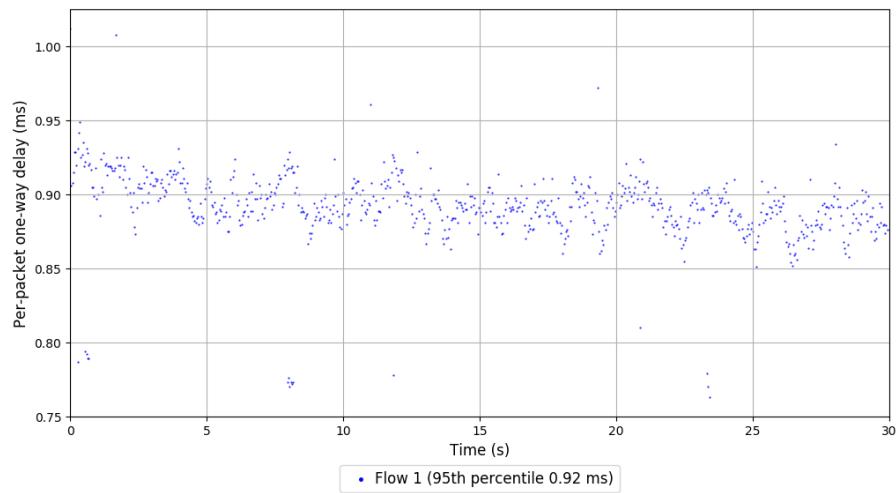
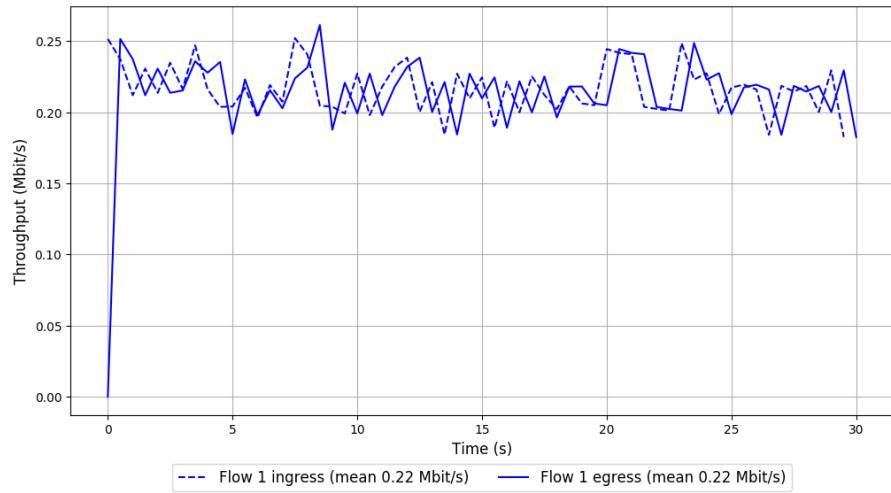


Run 4: Statistics of SCReAM

```
Start at: 2019-10-03 08:34:33
End at: 2019-10-03 08:35:03
Local clock offset: -5.839 ms
Remote clock offset: 0.777 ms

# Below is generated by plot.py at 2019-10-03 09:22:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.920 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.920 ms
Loss rate: 0.00%
```

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

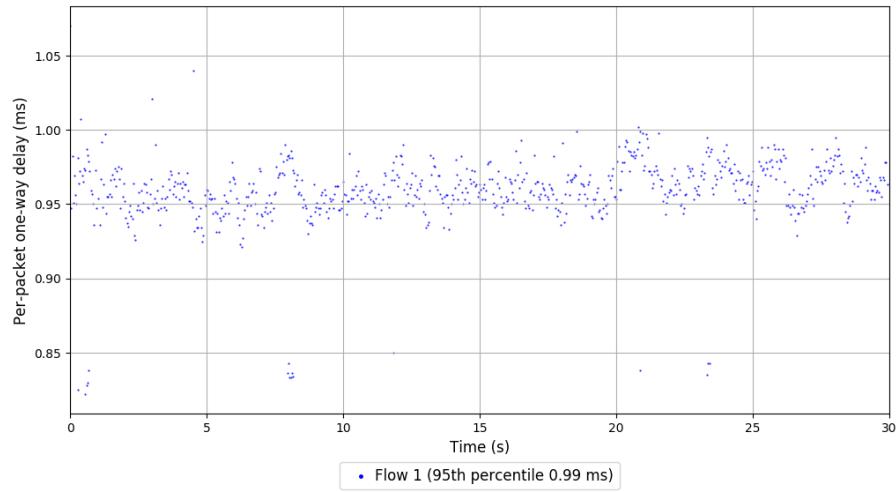
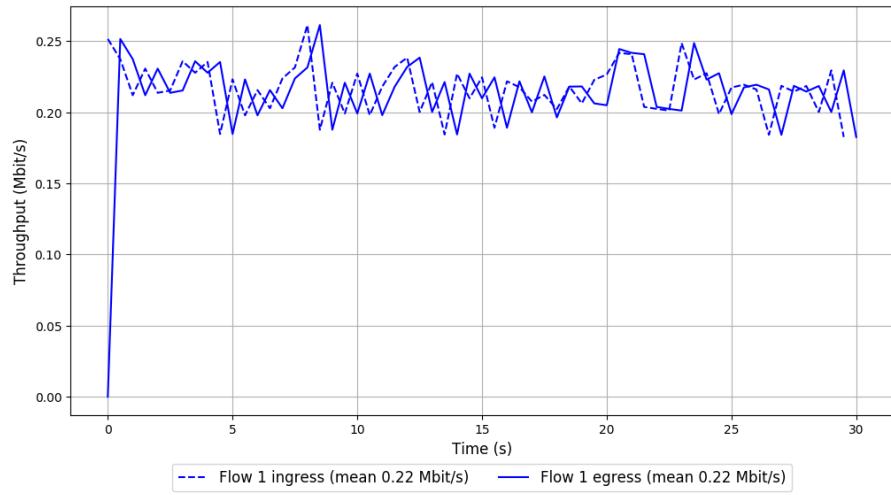


Run 5: Statistics of SCReAM

```
Start at: 2019-10-03 09:01:26
End at: 2019-10-03 09:01:56
Local clock offset: -5.949 ms
Remote clock offset: 0.754 ms

# Below is generated by plot.py at 2019-10-03 09:22:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.987 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.987 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

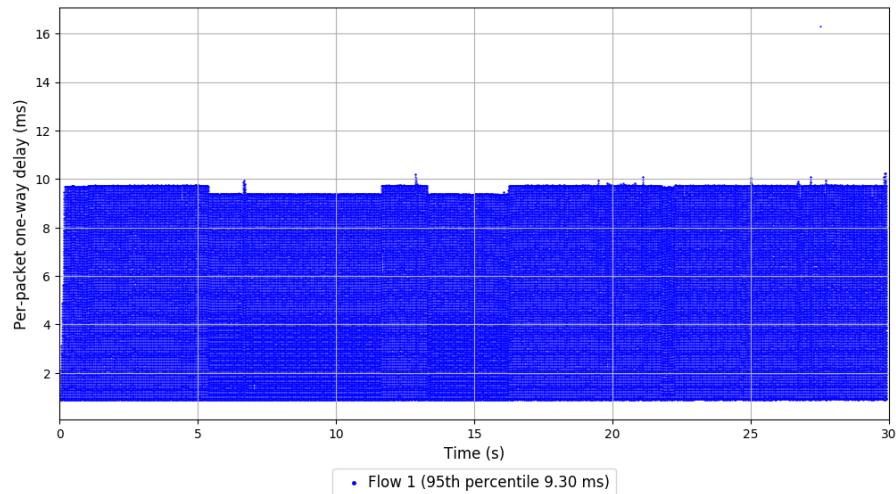
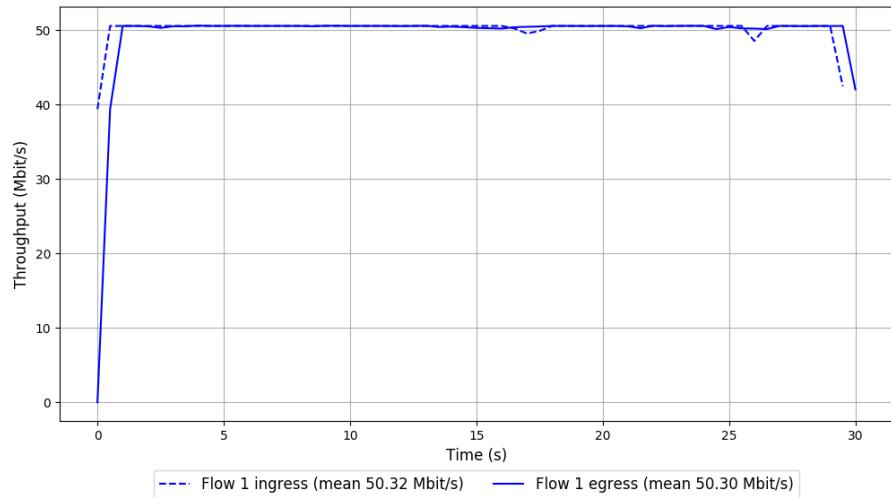


Run 1: Statistics of Sprout

```
Start at: 2019-10-03 07:07:25
End at: 2019-10-03 07:07:55
Local clock offset: -5.698 ms
Remote clock offset: 0.27 ms

# Below is generated by plot.py at 2019-10-03 09:22:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 9.303 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 9.303 ms
Loss rate: 0.01%
```

## Run 1: Report of Sprout — Data Link

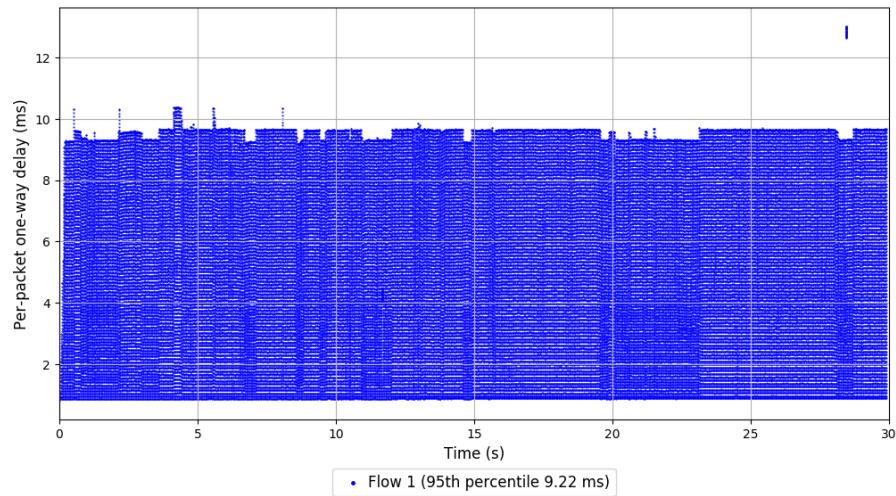
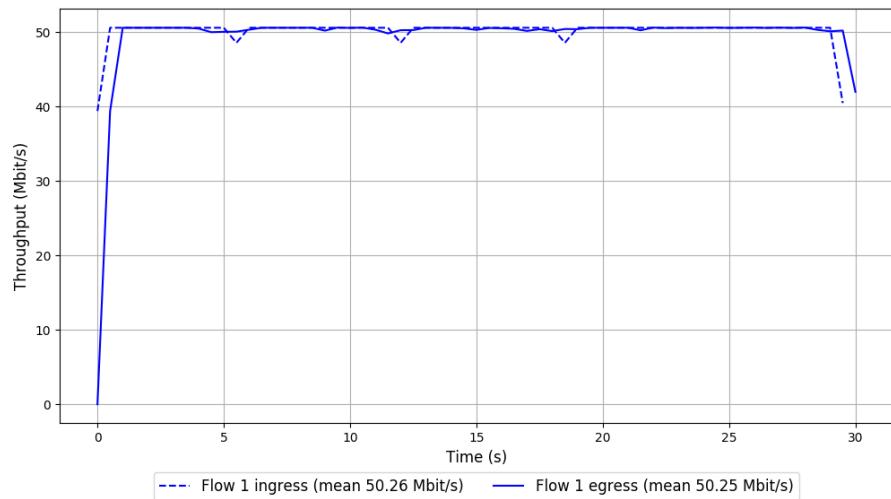


Run 2: Statistics of Sprout

```
Start at: 2019-10-03 07:34:13
End at: 2019-10-03 07:34:43
Local clock offset: -6.389 ms
Remote clock offset: 0.665 ms

# Below is generated by plot.py at 2019-10-03 09:22:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 9.225 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 9.225 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link

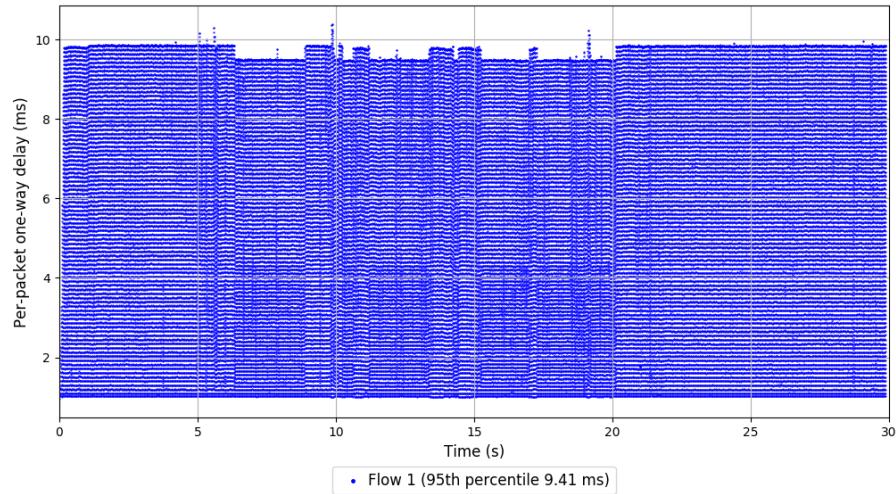
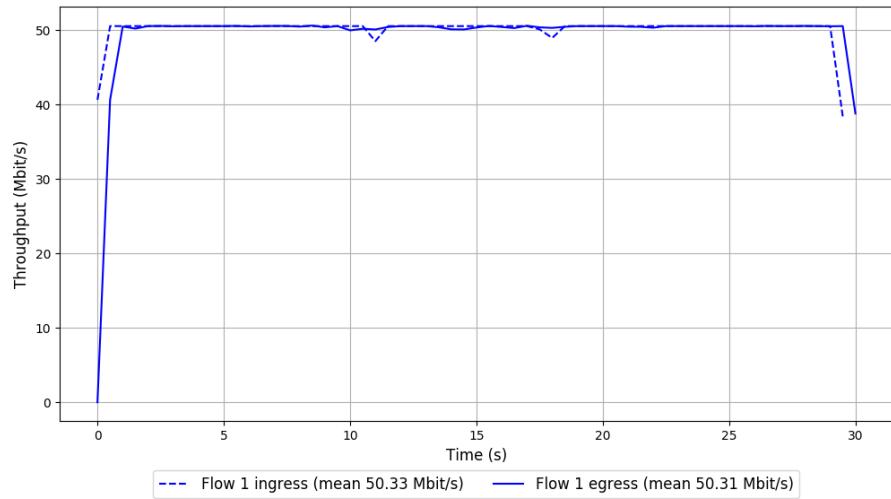


Run 3: Statistics of Sprout

```
Start at: 2019-10-03 08:01:02
End at: 2019-10-03 08:01:32
Local clock offset: -6.653 ms
Remote clock offset: 0.762 ms

# Below is generated by plot.py at 2019-10-03 09:22:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 9.407 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 9.407 ms
Loss rate: 0.00%
```

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

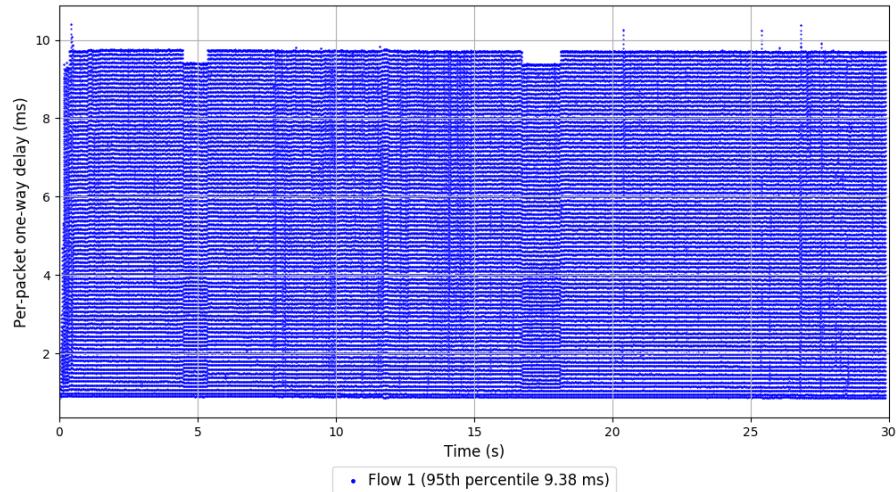
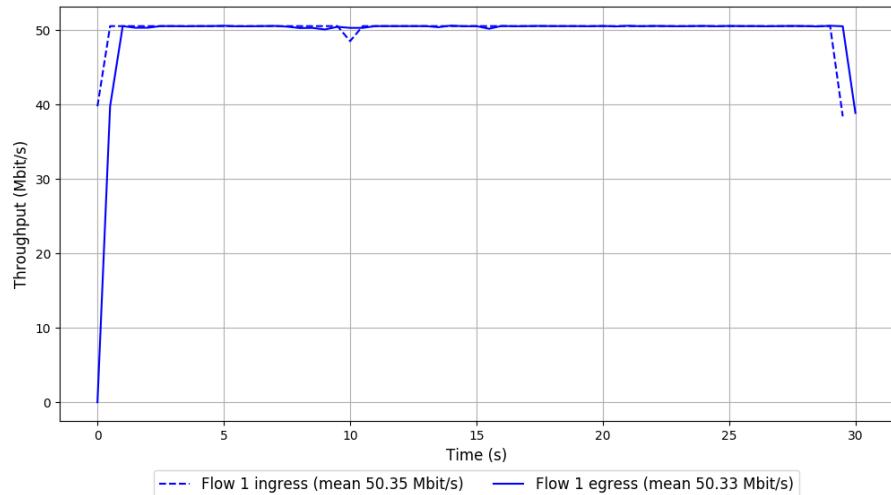


Run 4: Statistics of Sprout

```
Start at: 2019-10-03 08:27:55
End at: 2019-10-03 08:28:25
Local clock offset: -6.229 ms
Remote clock offset: 0.875 ms

# Below is generated by plot.py at 2019-10-03 09:22:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 9.381 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 9.381 ms
Loss rate: 0.00%
```

## Run 4: Report of Sprout — Data Link

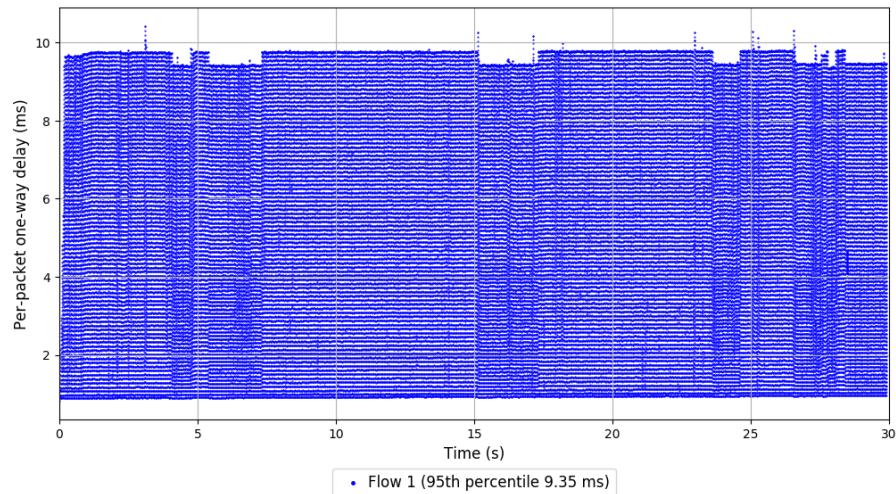
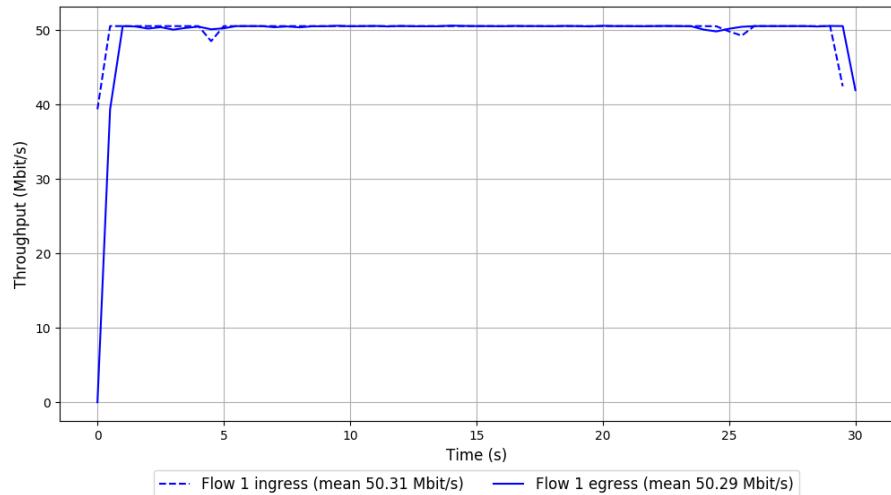


Run 5: Statistics of Sprout

```
Start at: 2019-10-03 08:54:48
End at: 2019-10-03 08:55:18
Local clock offset: -5.312 ms
Remote clock offset: 0.862 ms

# Below is generated by plot.py at 2019-10-03 09:22:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.29 Mbit/s
95th percentile per-packet one-way delay: 9.351 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.29 Mbit/s
95th percentile per-packet one-way delay: 9.351 ms
Loss rate: 0.02%
```

## Run 5: Report of Sprout — Data Link

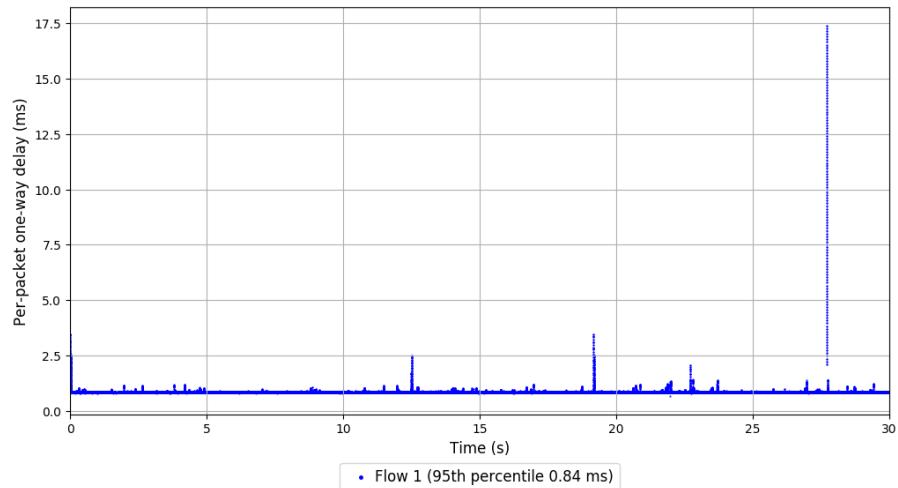
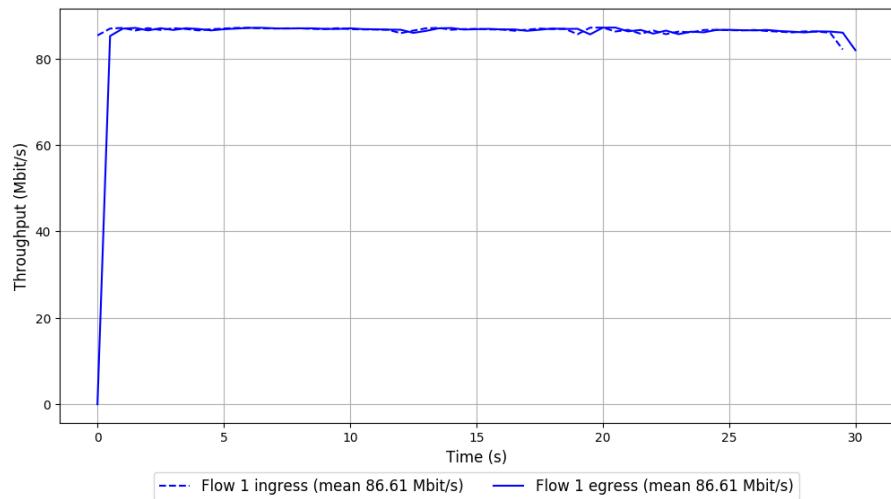


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-10-03 07:03:58
End at: 2019-10-03 07:04:28
Local clock offset: -5.673 ms
Remote clock offset: 0.272 ms

# Below is generated by plot.py at 2019-10-03 09:24:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.61 Mbit/s
95th percentile per-packet one-way delay: 0.843 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.61 Mbit/s
95th percentile per-packet one-way delay: 0.843 ms
Loss rate: 0.01%
```

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

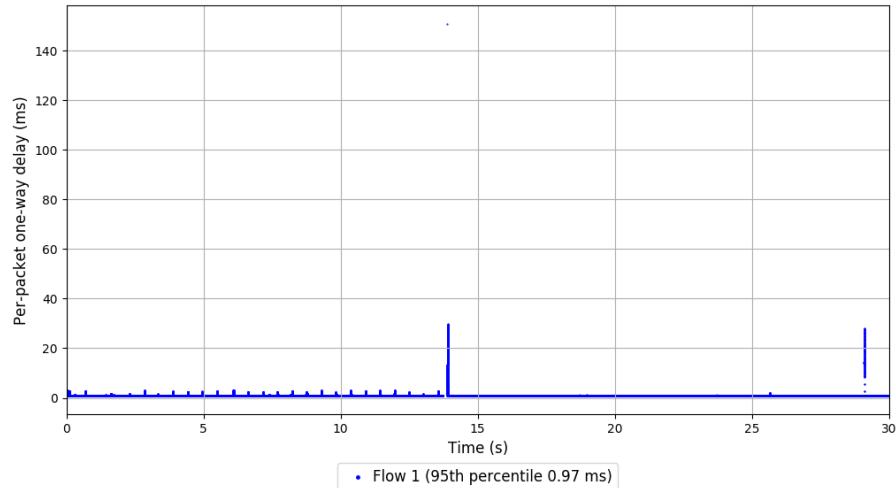
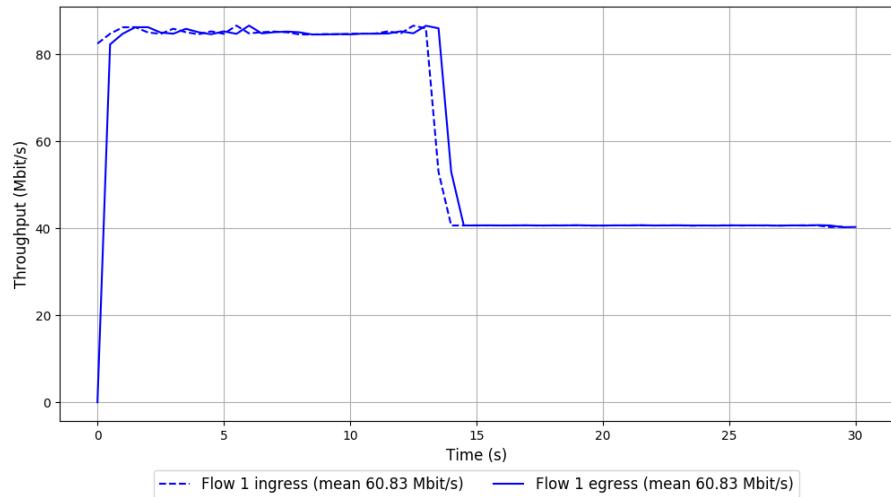


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-10-03 07:30:47
End at: 2019-10-03 07:31:17
Local clock offset: -6.166 ms
Remote clock offset: 0.561 ms

# Below is generated by plot.py at 2019-10-03 09:24:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.83 Mbit/s
95th percentile per-packet one-way delay: 0.969 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.83 Mbit/s
95th percentile per-packet one-way delay: 0.969 ms
Loss rate: 0.00%
```

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

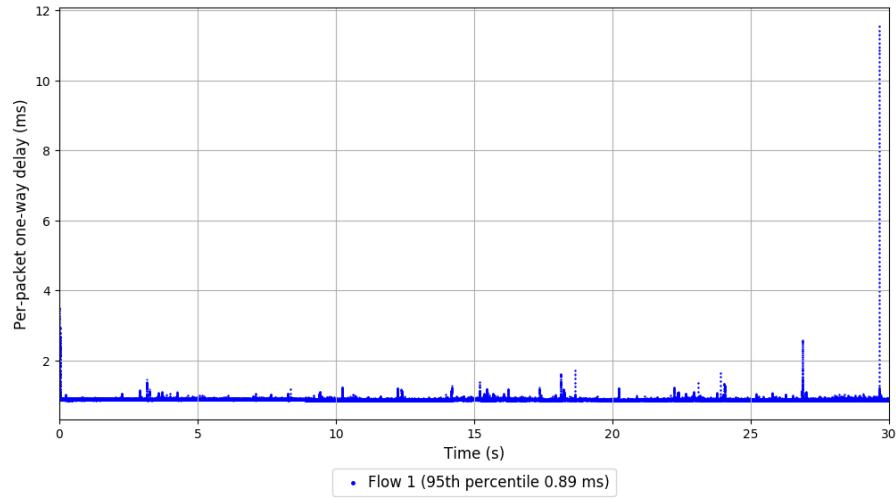
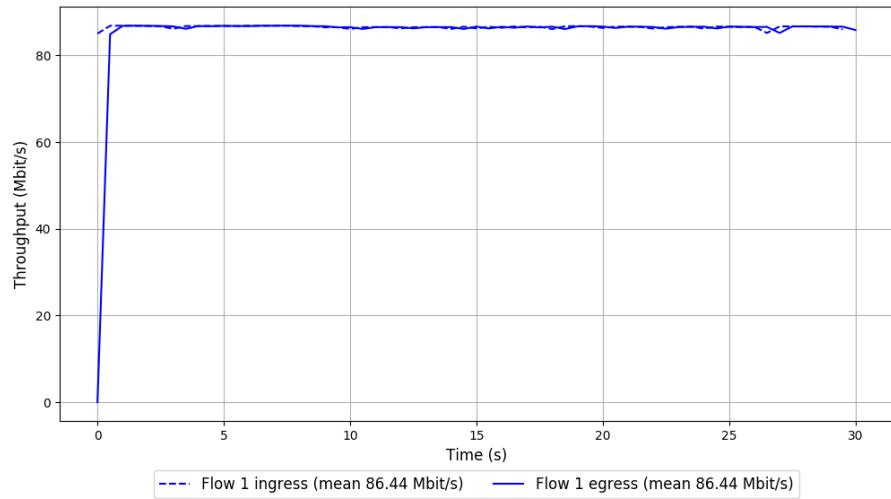


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-10-03 07:57:35
End at: 2019-10-03 07:58:05
Local clock offset: -6.783 ms
Remote clock offset: 0.787 ms

# Below is generated by plot.py at 2019-10-03 09:24:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.44 Mbit/s
95th percentile per-packet one-way delay: 0.885 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.44 Mbit/s
95th percentile per-packet one-way delay: 0.885 ms
Loss rate: 0.01%
```

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

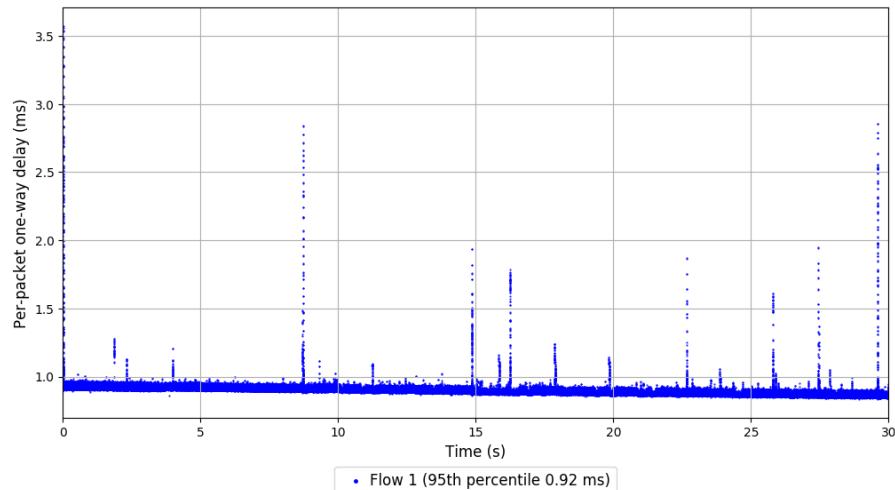
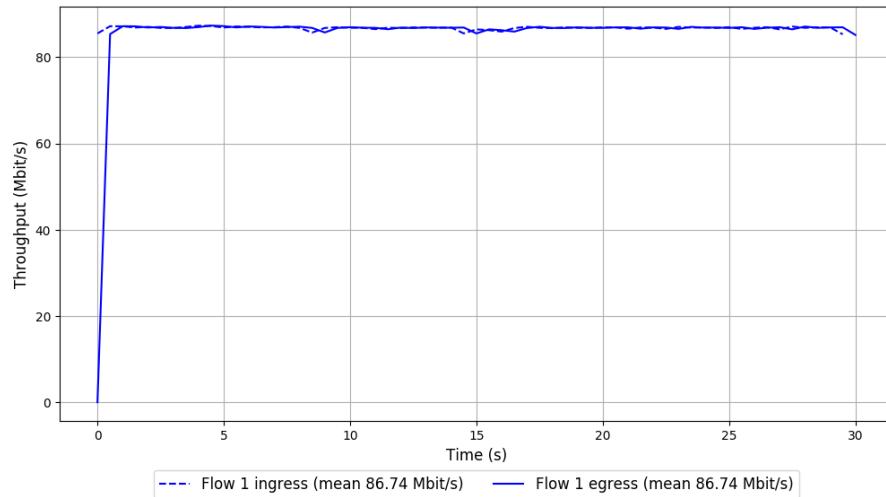


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-10-03 08:24:27
End at: 2019-10-03 08:24:57
Local clock offset: -6.561 ms
Remote clock offset: 0.876 ms

# Below is generated by plot.py at 2019-10-03 09:24:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.74 Mbit/s
95th percentile per-packet one-way delay: 0.922 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.74 Mbit/s
95th percentile per-packet one-way delay: 0.922 ms
Loss rate: 0.01%
```

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

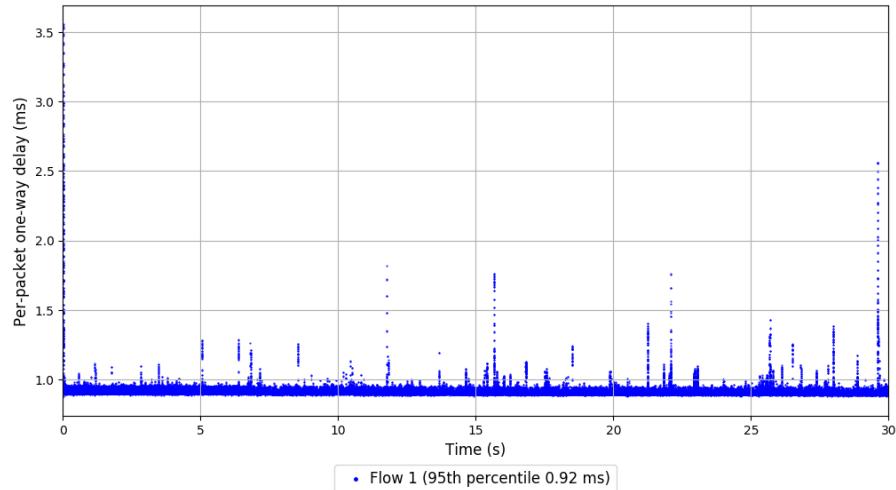
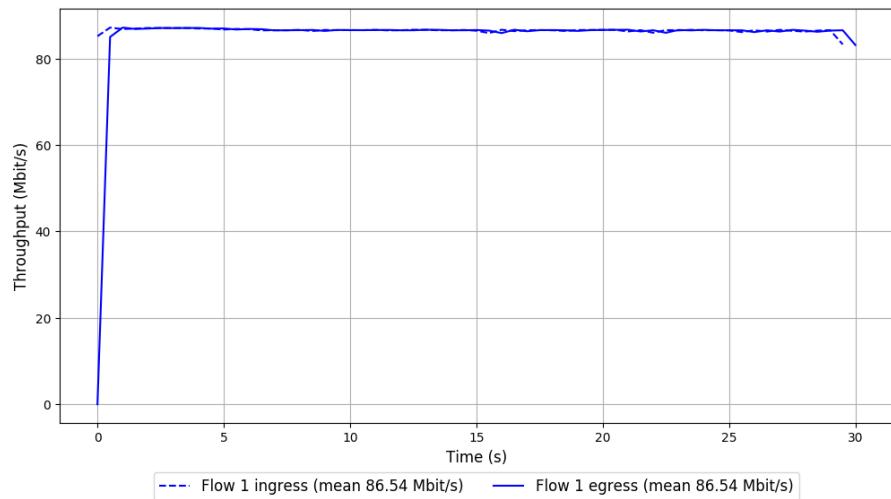


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-10-03 08:51:20
End at: 2019-10-03 08:51:50
Local clock offset: -5.297 ms
Remote clock offset: 0.82 ms

# Below is generated by plot.py at 2019-10-03 09:24:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.54 Mbit/s
95th percentile per-packet one-way delay: 0.919 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.54 Mbit/s
95th percentile per-packet one-way delay: 0.919 ms
Loss rate: 0.01%
```

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

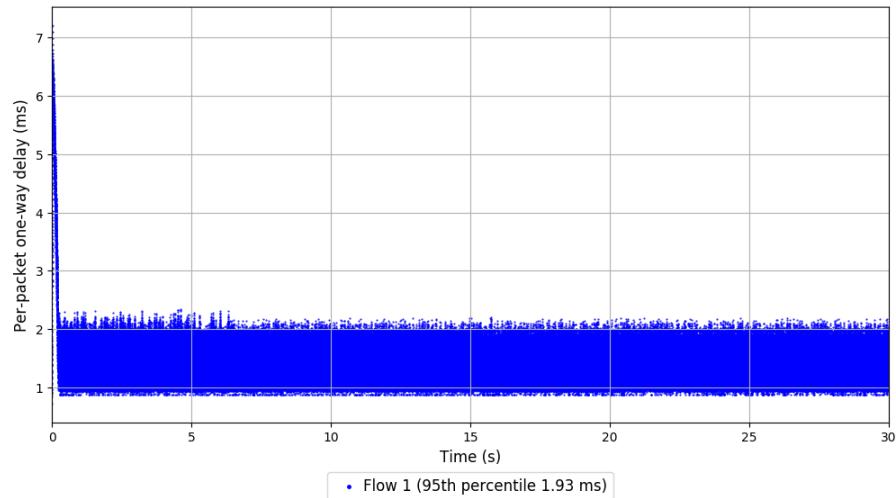
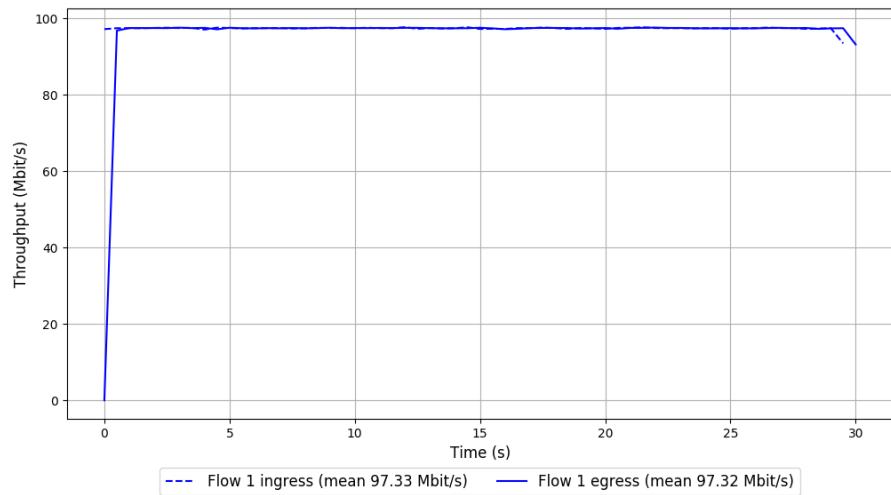


Run 1: Statistics of TCP Vegas

```
Start at: 2019-10-03 07:17:20
End at: 2019-10-03 07:17:50
Local clock offset: -5.729 ms
Remote clock offset: 0.377 ms

# Below is generated by plot.py at 2019-10-03 09:24:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 1.928 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 1.928 ms
Loss rate: 0.01%
```

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

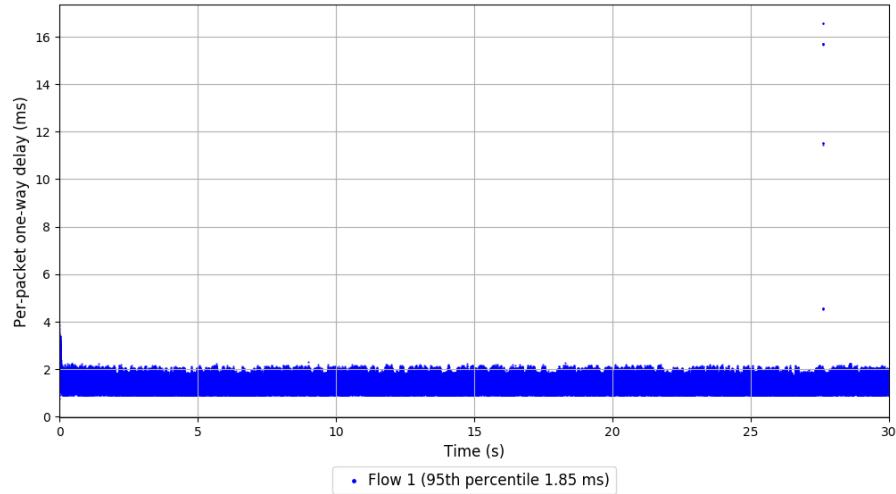
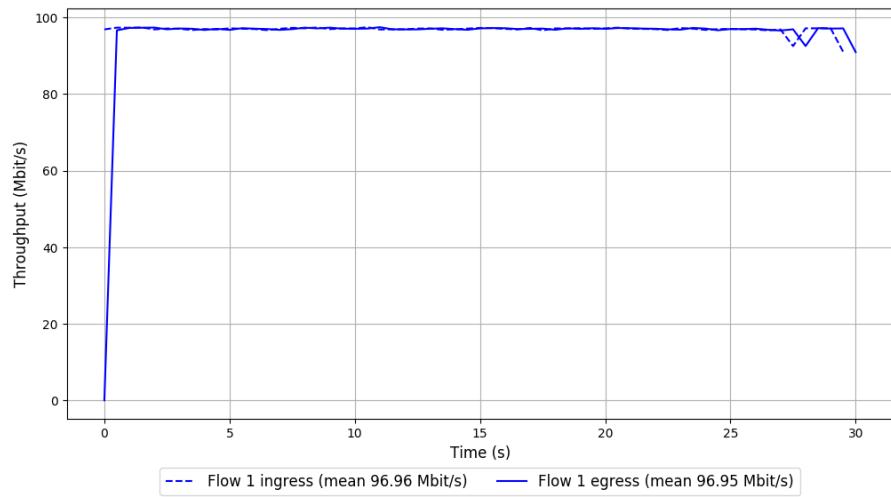


Run 2: Statistics of TCP Vegas

```
Start at: 2019-10-03 07:44:08
End at: 2019-10-03 07:44:38
Local clock offset: -6.639 ms
Remote clock offset: 0.716 ms

# Below is generated by plot.py at 2019-10-03 09:24:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.95 Mbit/s
95th percentile per-packet one-way delay: 1.853 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.95 Mbit/s
95th percentile per-packet one-way delay: 1.853 ms
Loss rate: 0.01%
```

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

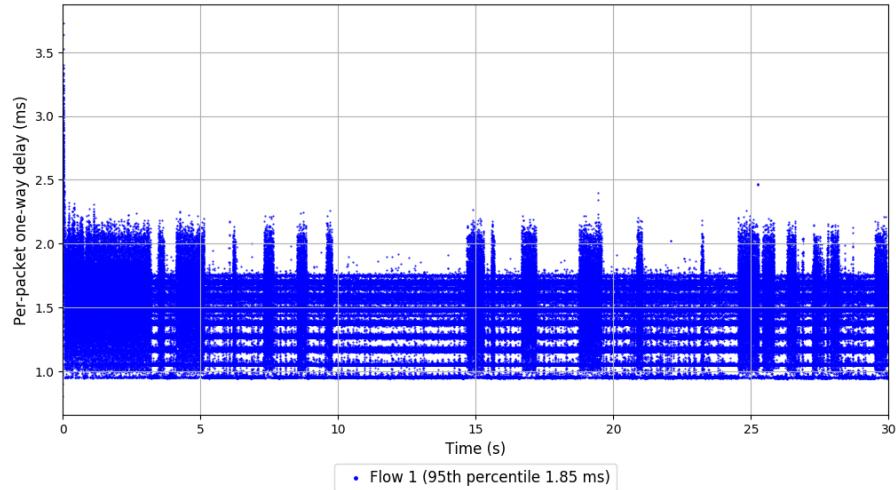
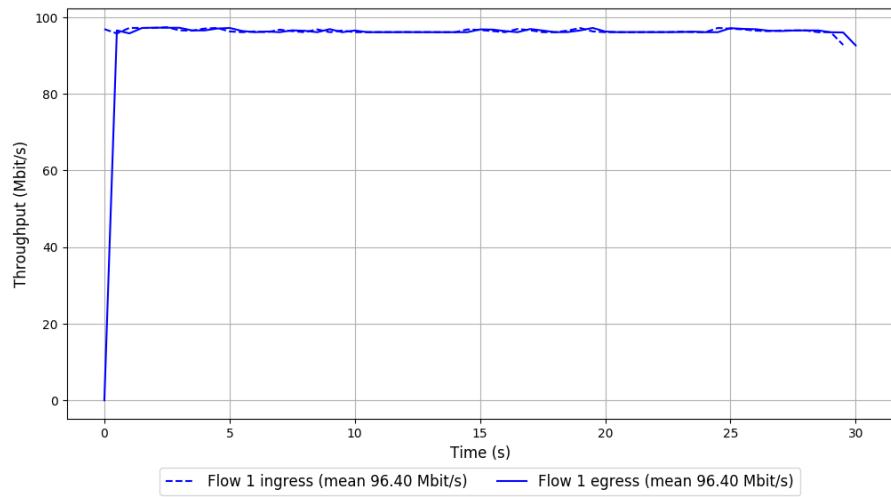


Run 3: Statistics of TCP Vegas

```
Start at: 2019-10-03 08:10:57
End at: 2019-10-03 08:11:27
Local clock offset: -6.561 ms
Remote clock offset: 0.875 ms

# Below is generated by plot.py at 2019-10-03 09:24:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 1.854 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 1.854 ms
Loss rate: 0.01%
```

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

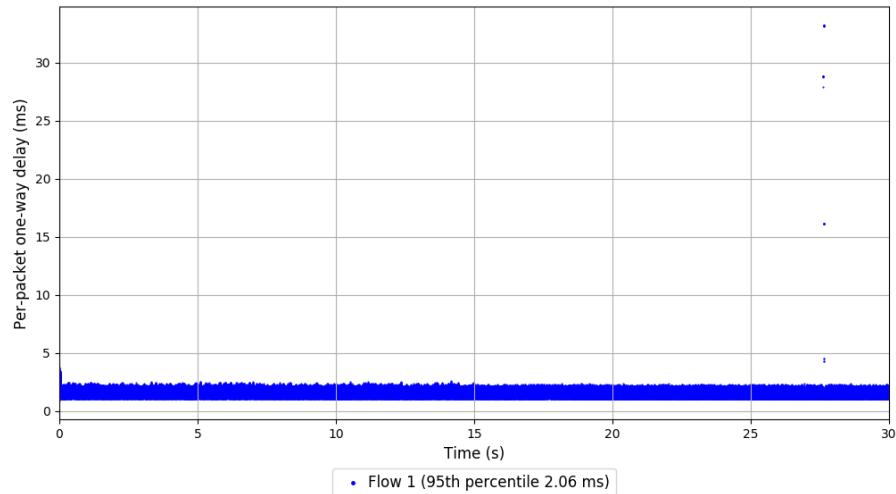
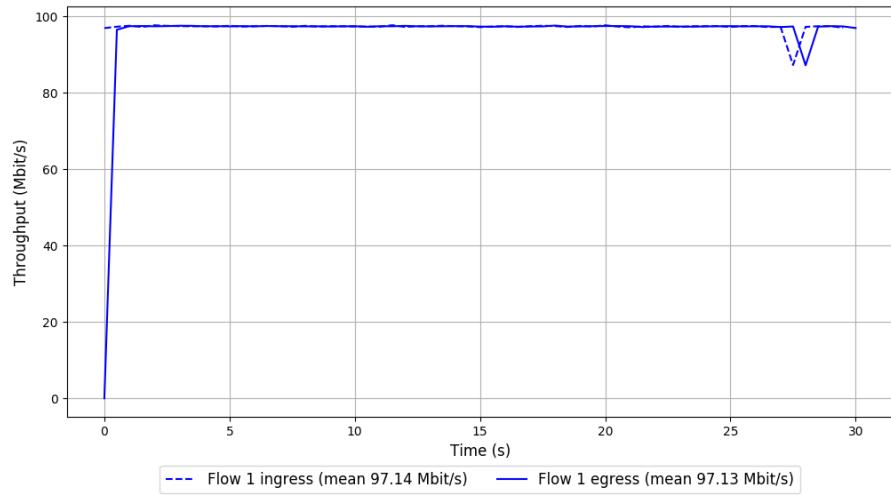


Run 4: Statistics of TCP Vegas

```
Start at: 2019-10-03 08:37:50
End at: 2019-10-03 08:38:20
Local clock offset: -5.619 ms
Remote clock offset: 0.744 ms

# Below is generated by plot.py at 2019-10-03 09:24:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 2.057 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 2.057 ms
Loss rate: 0.01%
```

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

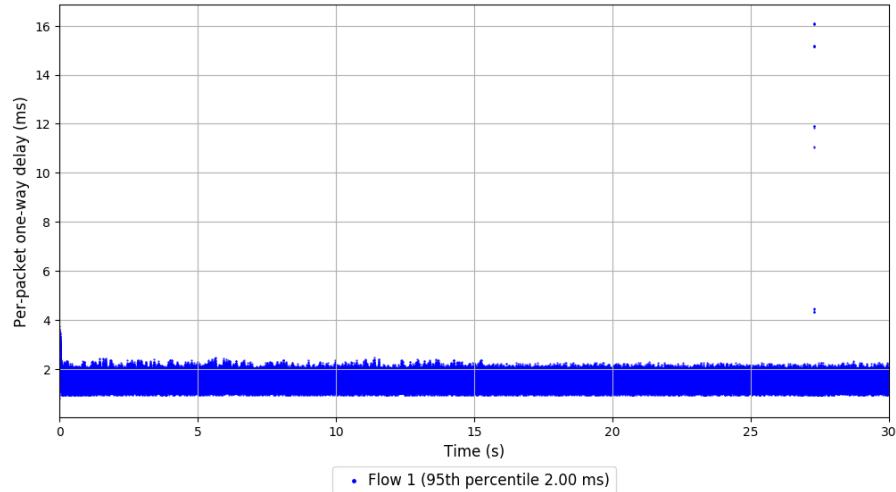
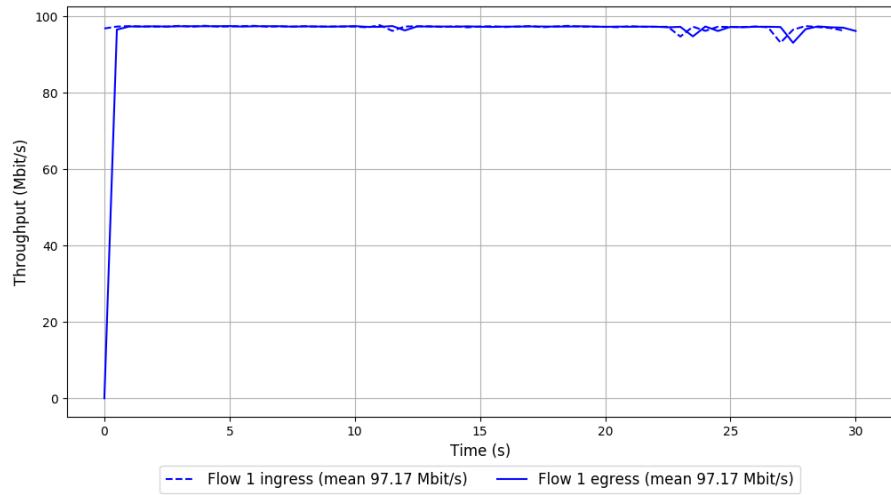


Run 5: Statistics of TCP Vegas

```
Start at: 2019-10-03 09:04:43
End at: 2019-10-03 09:05:13
Local clock offset: -6.14 ms
Remote clock offset: 0.709 ms

# Below is generated by plot.py at 2019-10-03 09:24:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 1.999 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 1.999 ms
Loss rate: 0.01%
```

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

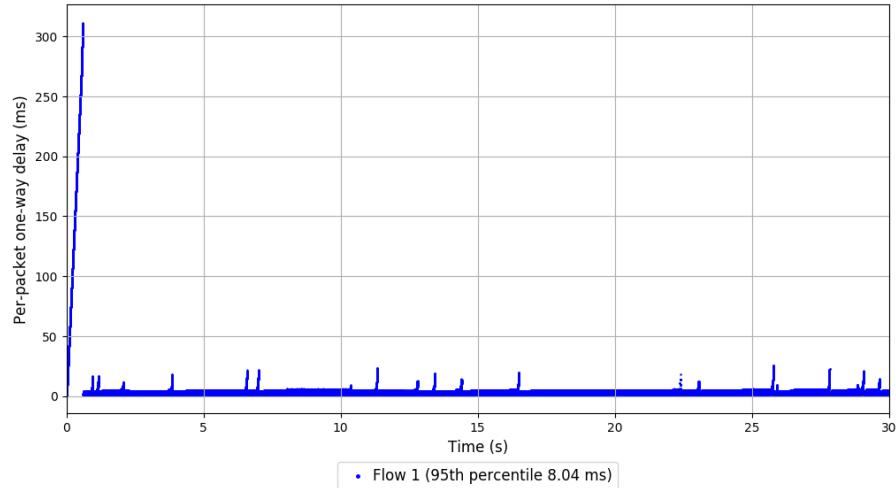
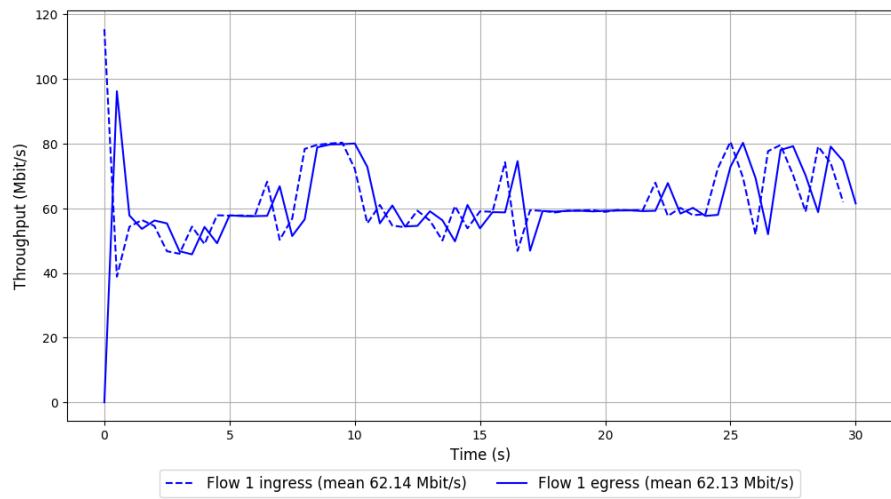


Run 1: Statistics of Verus

```
Start at: 2019-10-03 07:16:13
End at: 2019-10-03 07:16:43
Local clock offset: -5.662 ms
Remote clock offset: 0.279 ms

# Below is generated by plot.py at 2019-10-03 09:24:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.13 Mbit/s
95th percentile per-packet one-way delay: 8.039 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 62.13 Mbit/s
95th percentile per-packet one-way delay: 8.039 ms
Loss rate: 0.02%
```

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

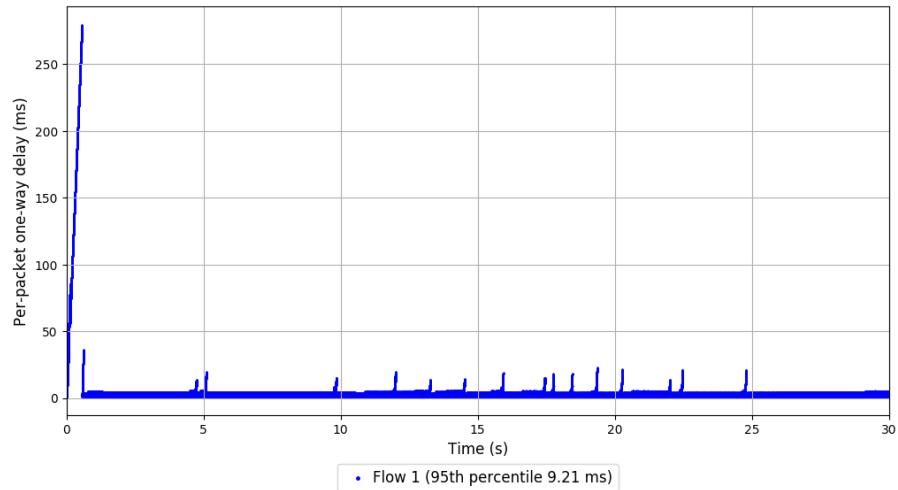
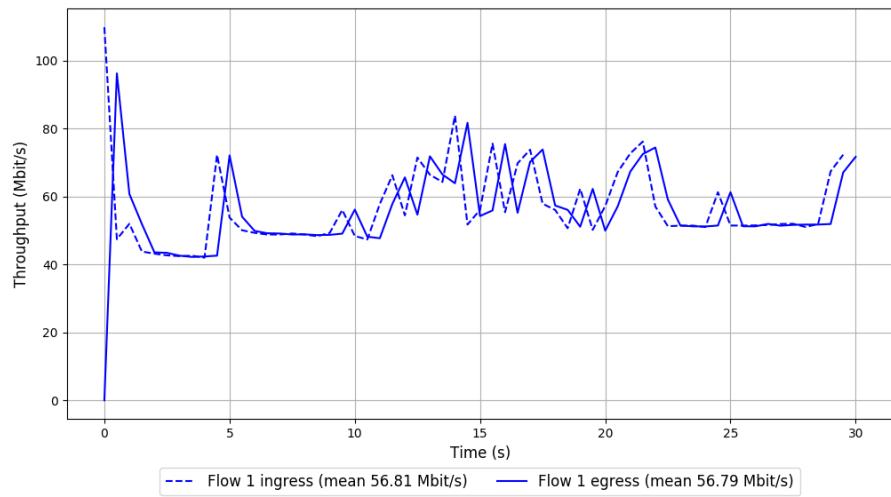


Run 2: Statistics of Verus

```
Start at: 2019-10-03 07:43:01
End at: 2019-10-03 07:43:31
Local clock offset: -6.59 ms
Remote clock offset: 0.688 ms

# Below is generated by plot.py at 2019-10-03 09:24:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.79 Mbit/s
95th percentile per-packet one-way delay: 9.210 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 56.79 Mbit/s
95th percentile per-packet one-way delay: 9.210 ms
Loss rate: 0.04%
```

## Run 2: Report of Verus — Data Link

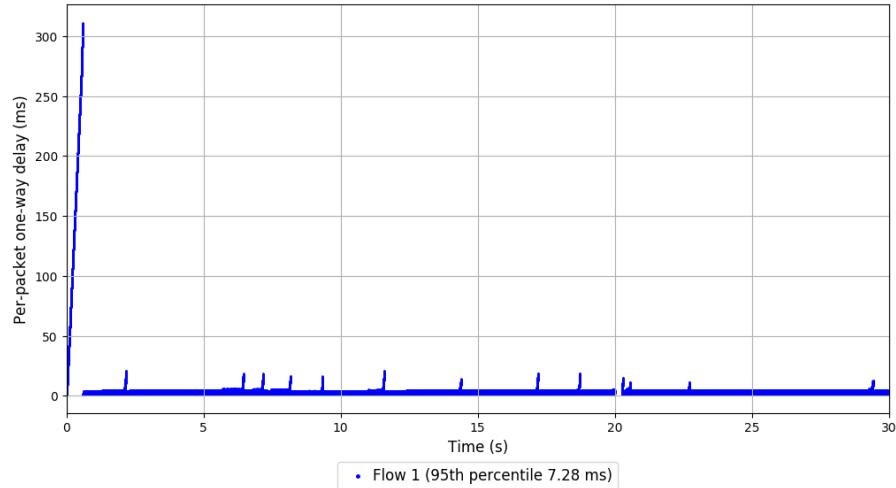
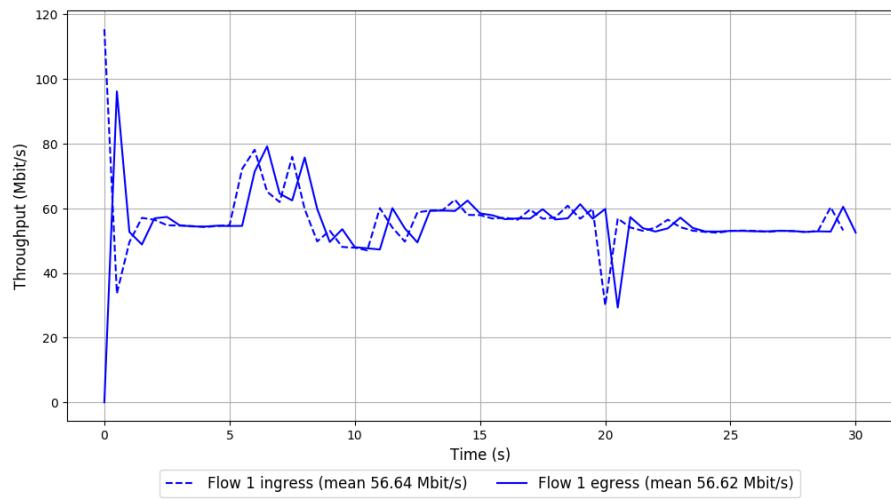


Run 3: Statistics of Verus

```
Start at: 2019-10-03 08:09:50
End at: 2019-10-03 08:10:20
Local clock offset: -6.563 ms
Remote clock offset: 0.903 ms

# Below is generated by plot.py at 2019-10-03 09:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.62 Mbit/s
95th percentile per-packet one-way delay: 7.277 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 56.62 Mbit/s
95th percentile per-packet one-way delay: 7.277 ms
Loss rate: 0.03%
```

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

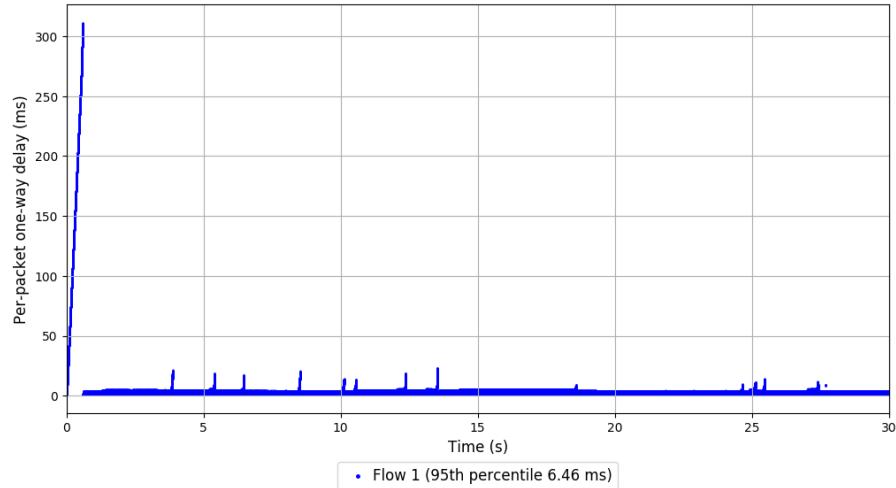
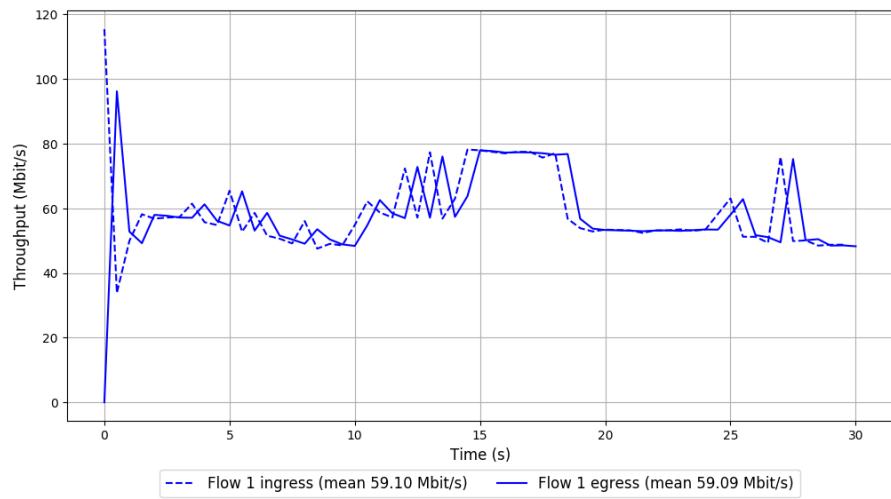


Run 4: Statistics of Verus

```
Start at: 2019-10-03 08:36:42
End at: 2019-10-03 08:37:12
Local clock offset: -5.656 ms
Remote clock offset: 0.855 ms

# Below is generated by plot.py at 2019-10-03 09:25:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.09 Mbit/s
95th percentile per-packet one-way delay: 6.457 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 59.09 Mbit/s
95th percentile per-packet one-way delay: 6.457 ms
Loss rate: 0.03%
```

## Run 4: Report of Verus — Data Link

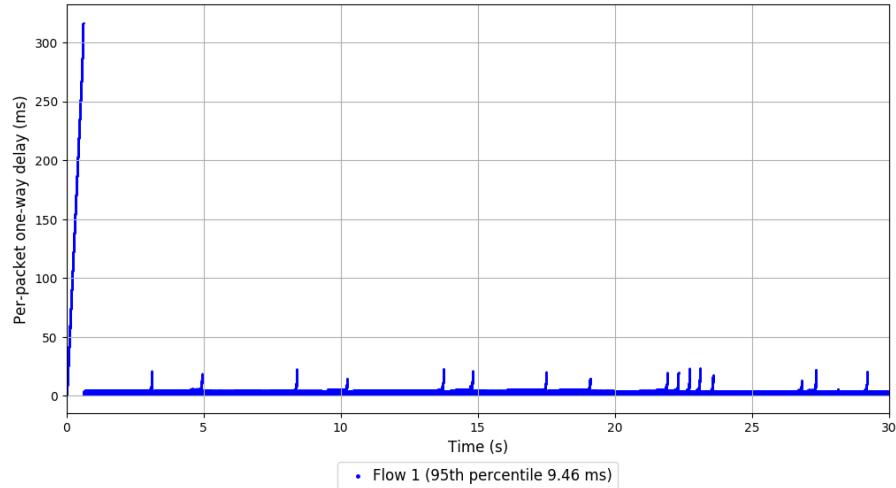
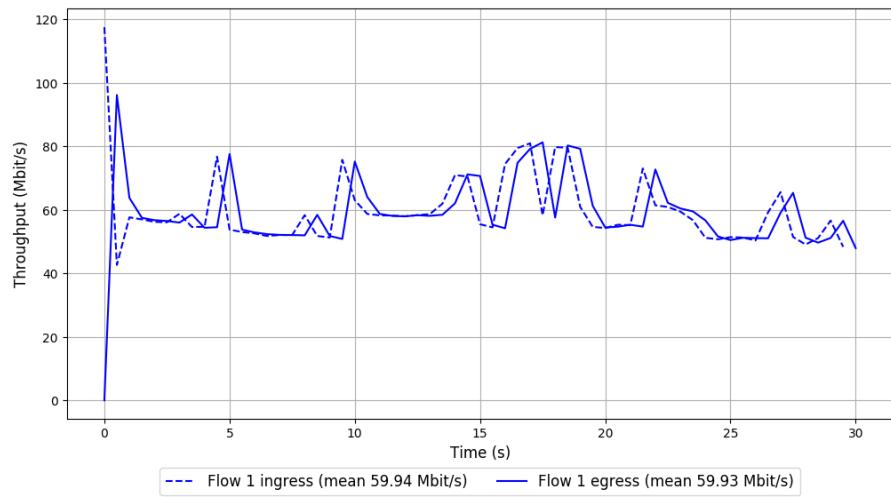


Run 5: Statistics of Verus

```
Start at: 2019-10-03 09:03:36
End at: 2019-10-03 09:04:06
Local clock offset: -6.147 ms
Remote clock offset: 0.683 ms

# Below is generated by plot.py at 2019-10-03 09:25:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.93 Mbit/s
95th percentile per-packet one-way delay: 9.462 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 59.93 Mbit/s
95th percentile per-packet one-way delay: 9.462 ms
Loss rate: 0.02%
```

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

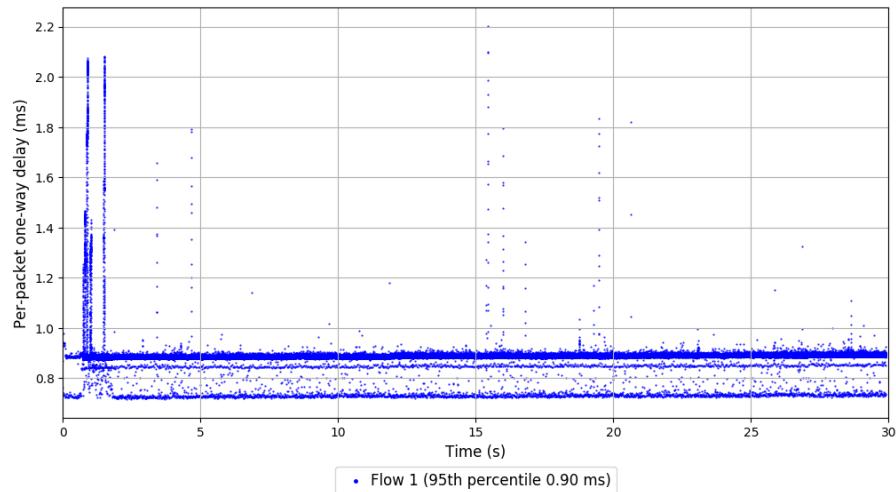
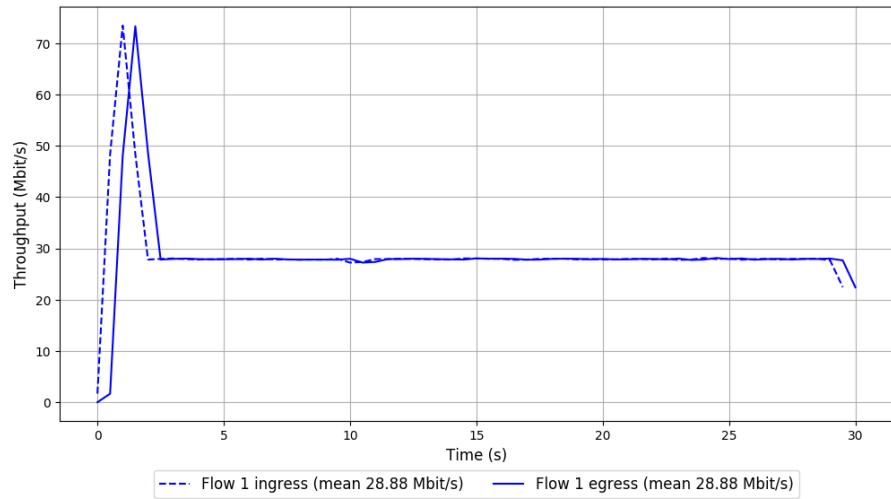


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-10-03 07:01:41
End at: 2019-10-03 07:02:11
Local clock offset: -5.646 ms
Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2019-10-03 09:25:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.88 Mbit/s
95th percentile per-packet one-way delay: 0.898 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 28.88 Mbit/s
95th percentile per-packet one-way delay: 0.898 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Vivace — Data Link

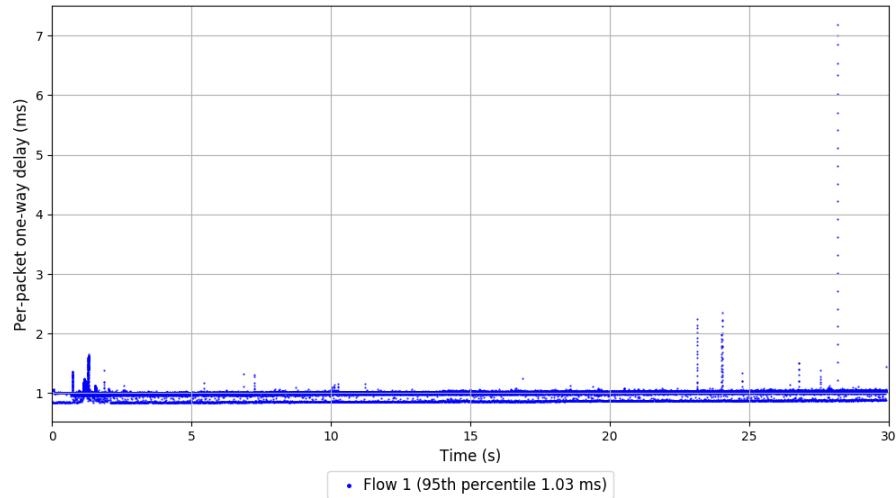
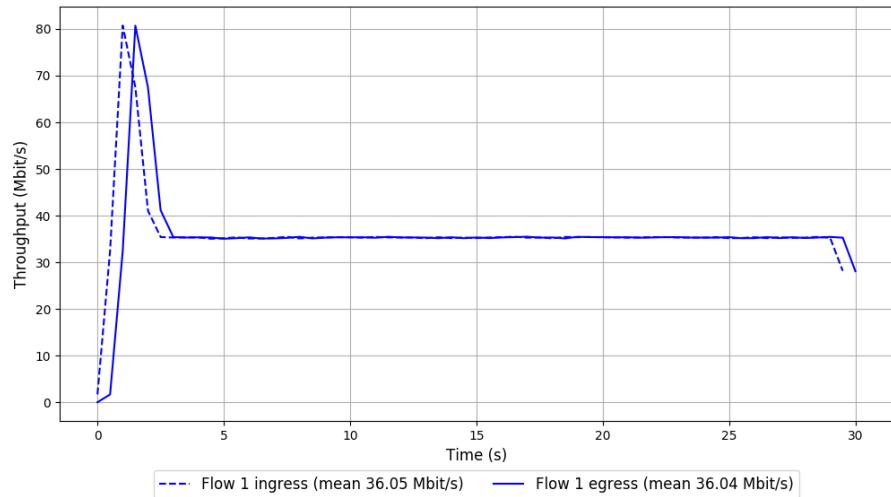


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-10-03 07:28:30
End at: 2019-10-03 07:29:00
Local clock offset: -6.025 ms
Remote clock offset: 0.489 ms

# Below is generated by plot.py at 2019-10-03 09:25:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.04 Mbit/s
95th percentile per-packet one-way delay: 1.026 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 36.04 Mbit/s
95th percentile per-packet one-way delay: 1.026 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Vivace — Data Link

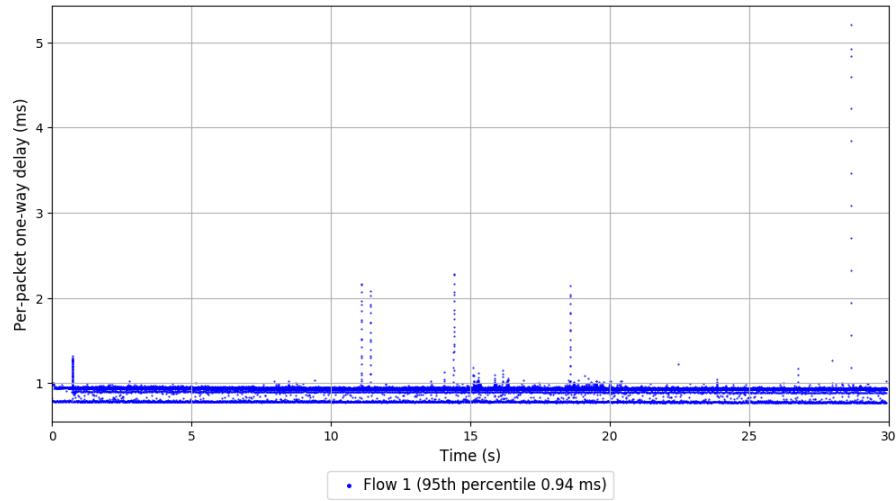
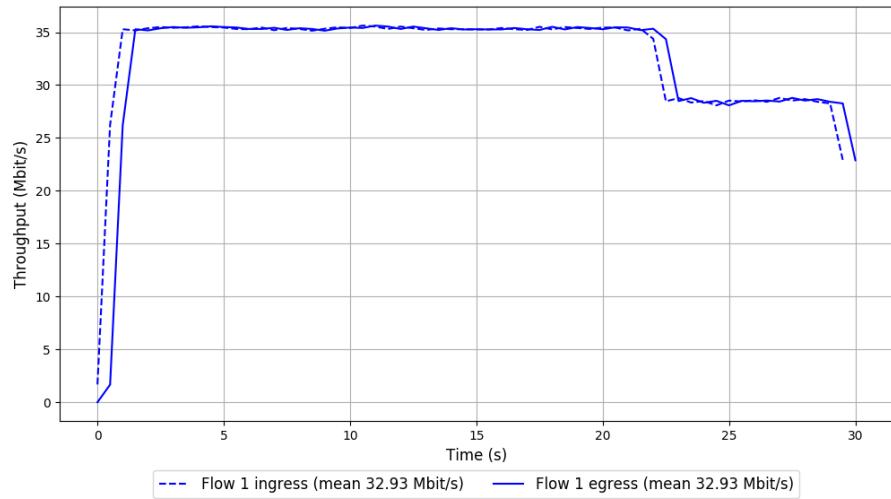


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-10-03 07:55:17
End at: 2019-10-03 07:55:47
Local clock offset: -6.857 ms
Remote clock offset: 0.676 ms

# Below is generated by plot.py at 2019-10-03 09:25:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.93 Mbit/s
95th percentile per-packet one-way delay: 0.945 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.93 Mbit/s
95th percentile per-packet one-way delay: 0.945 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

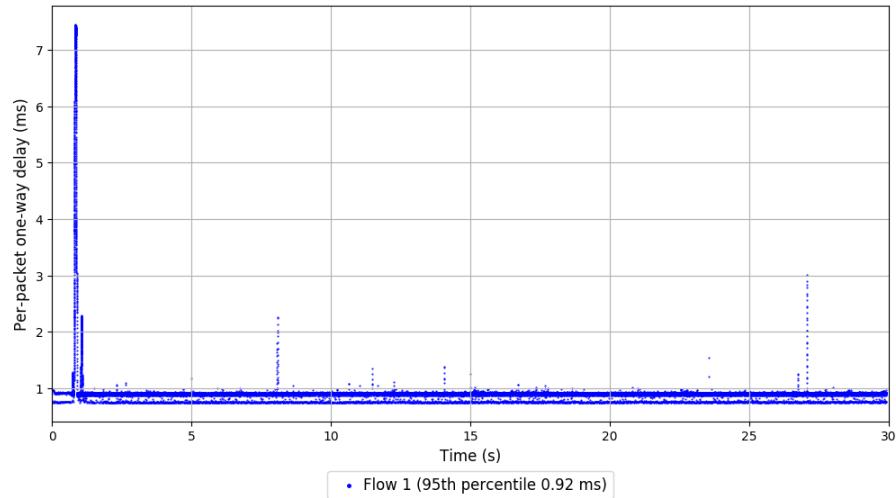
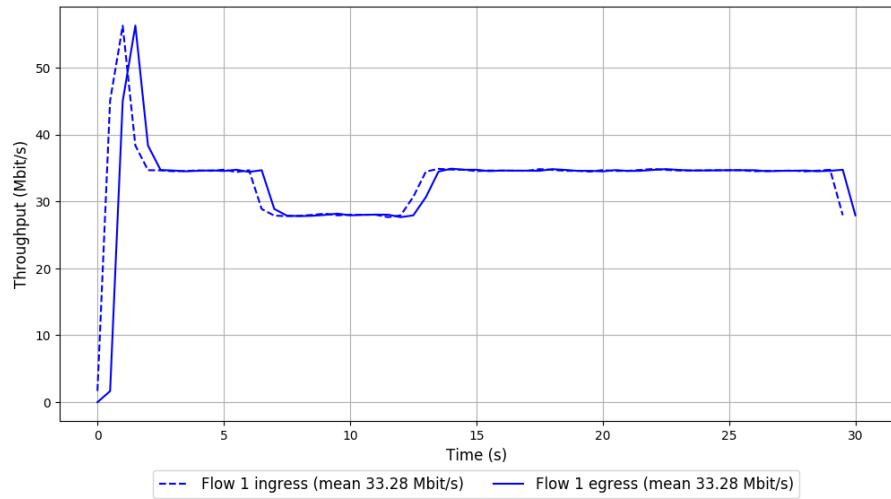


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-10-03 08:22:09
End at: 2019-10-03 08:22:39
Local clock offset: -6.587 ms
Remote clock offset: 0.888 ms

# Below is generated by plot.py at 2019-10-03 09:25:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.28 Mbit/s
95th percentile per-packet one-way delay: 0.919 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 33.28 Mbit/s
95th percentile per-packet one-way delay: 0.919 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

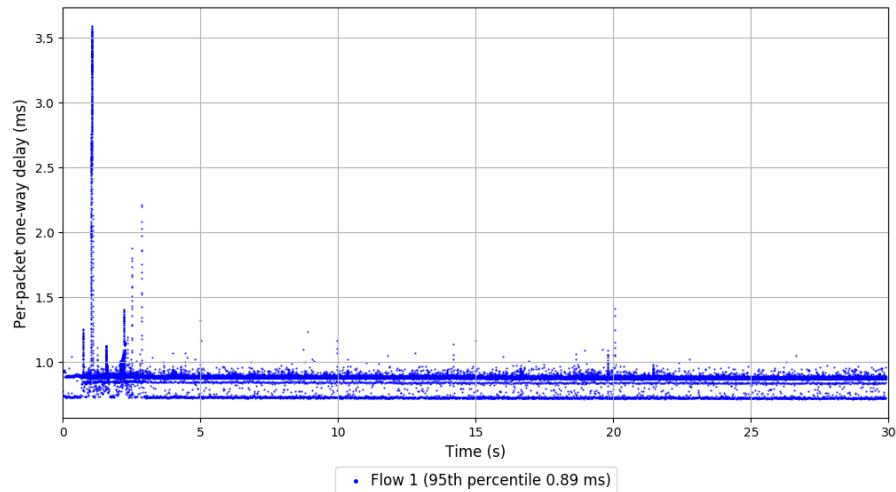
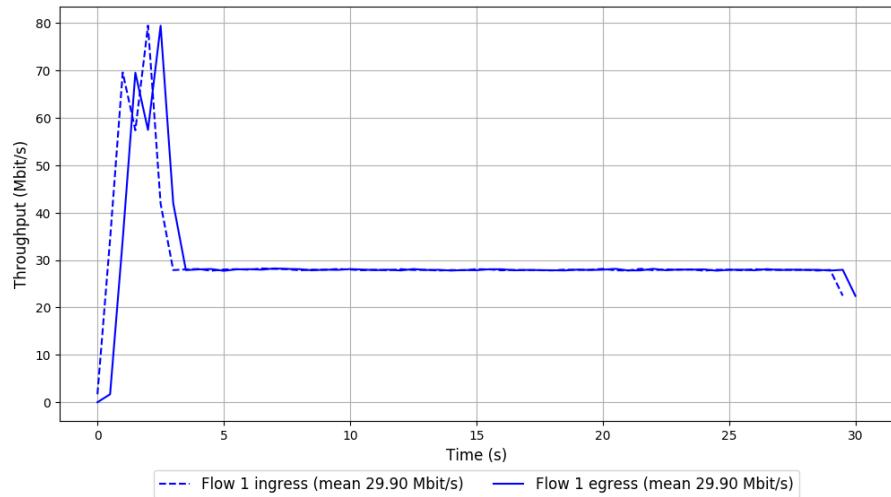


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-10-03 08:49:03
End at: 2019-10-03 08:49:33
Local clock offset: -5.325 ms
Remote clock offset: 0.866 ms

# Below is generated by plot.py at 2019-10-03 09:25:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.90 Mbit/s
95th percentile per-packet one-way delay: 0.894 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 29.90 Mbit/s
95th percentile per-packet one-way delay: 0.894 ms
Loss rate: 0.01%
```

Run 5: Report of PCC-Vivace — Data Link

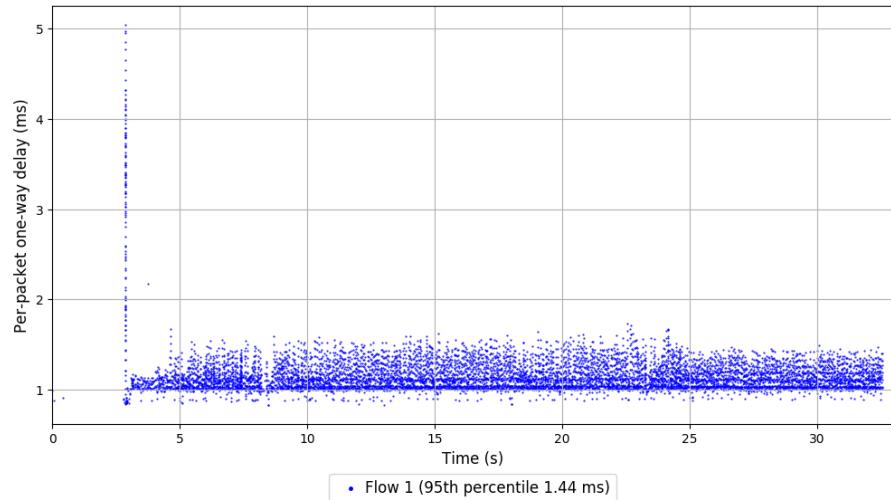
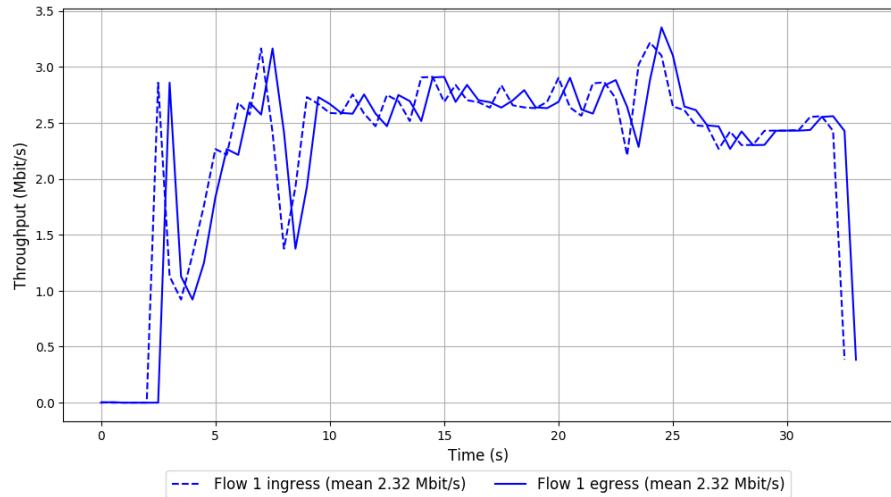


Run 1: Statistics of WebRTC media

```
Start at: 2019-10-03 07:10:44
End at: 2019-10-03 07:11:14
Local clock offset: -5.634 ms
Remote clock offset: 0.26 ms

# Below is generated by plot.py at 2019-10-03 09:25:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 1.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 1.435 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

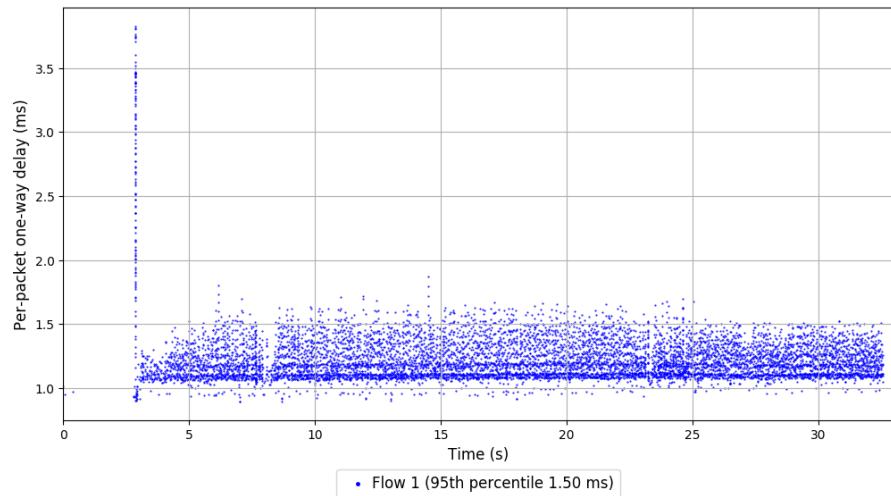
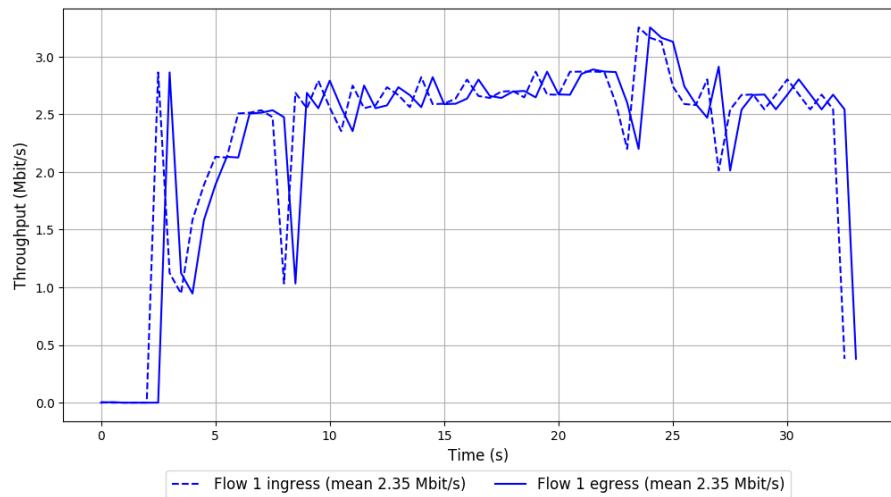


Run 2: Statistics of WebRTC media

```
Start at: 2019-10-03 07:37:32
End at: 2019-10-03 07:38:02
Local clock offset: -6.467 ms
Remote clock offset: 0.52 ms

# Below is generated by plot.py at 2019-10-03 09:25:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 1.497 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 1.497 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

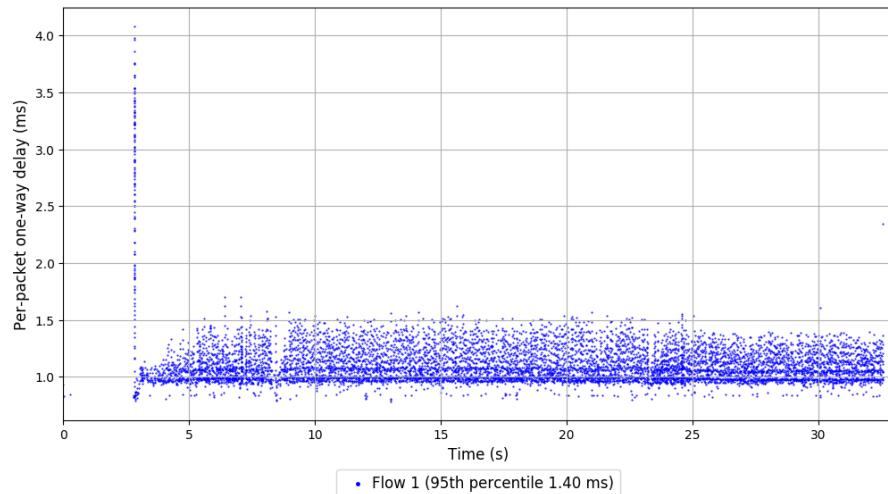
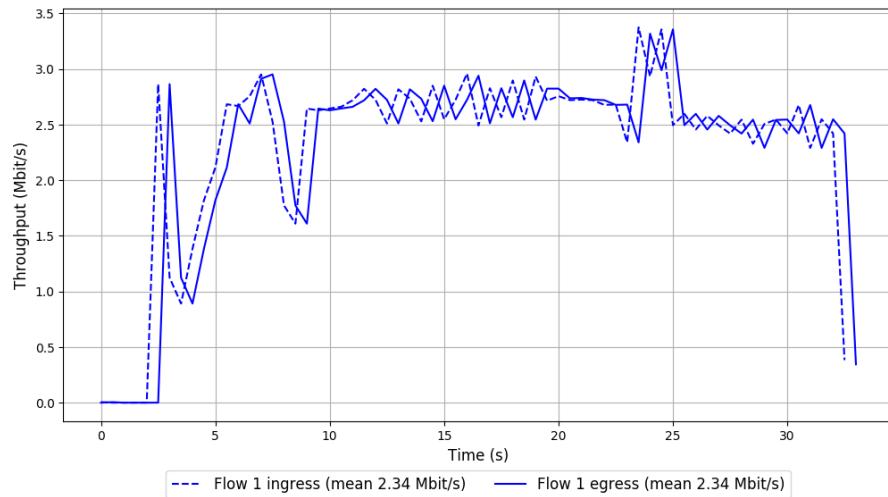


Run 3: Statistics of WebRTC media

```
Start at: 2019-10-03 08:04:21
End at: 2019-10-03 08:04:51
Local clock offset: -6.655 ms
Remote clock offset: 0.767 ms

# Below is generated by plot.py at 2019-10-03 09:25:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 1.395 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 1.395 ms
Loss rate: 0.03%
```

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

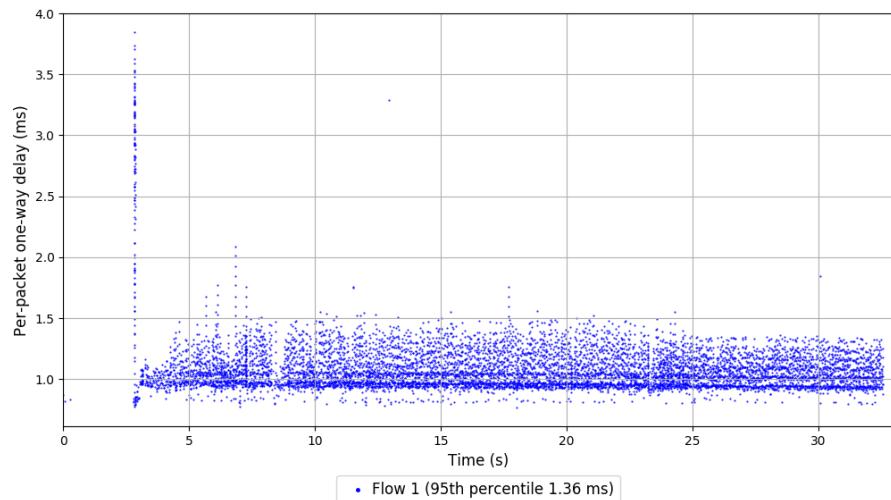
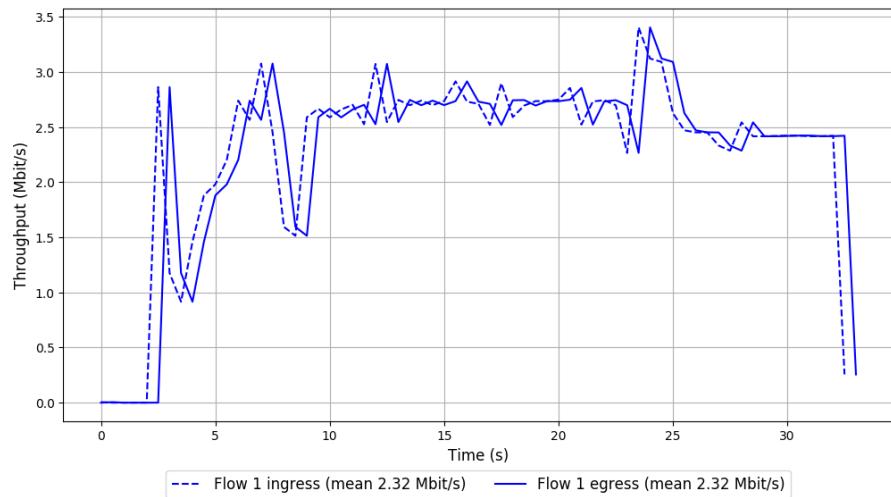


Run 4: Statistics of WebRTC media

```
Start at: 2019-10-03 08:31:13
End at: 2019-10-03 08:31:43
Local clock offset: -5.961 ms
Remote clock offset: 0.831 ms

# Below is generated by plot.py at 2019-10-03 09:25:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 1.356 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 1.356 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of WebRTC media

```
Start at: 2019-10-03 08:58:06
End at: 2019-10-03 08:58:36
Local clock offset: -5.647 ms
Remote clock offset: 0.791 ms

# Below is generated by plot.py at 2019-10-03 09:25:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 1.445 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 1.445 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

