

## Pantheon Report

Generated at 2019-11-24 00:38:42 (UTC).  
Data path: AWS Brazil 1 on `ens5` (*local*) → Brazil on `p4p1` (*remote*).  
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.

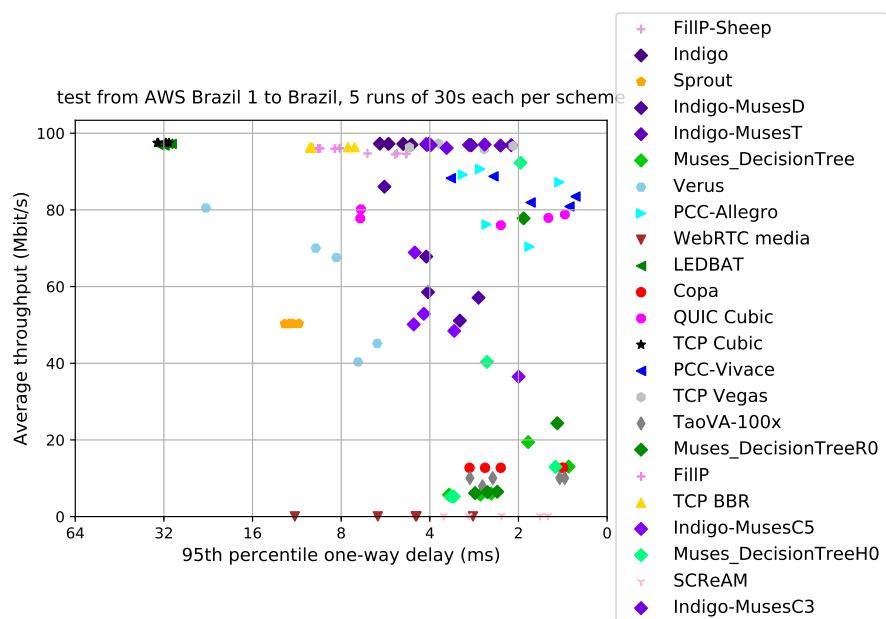
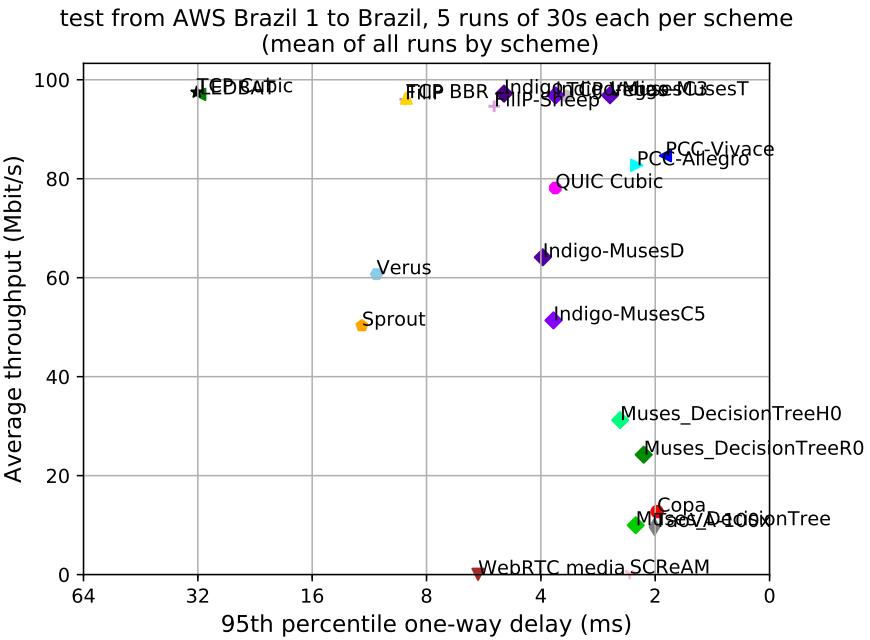
System info:

```
Linux 4.15.0-1051-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



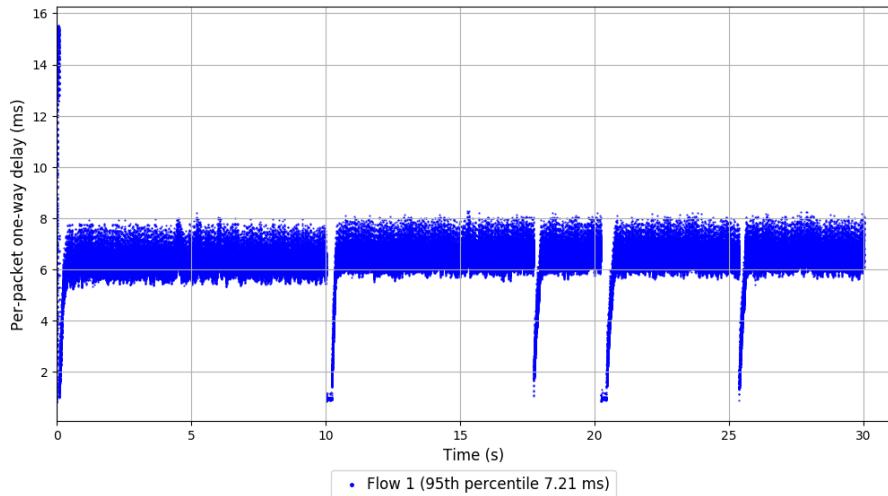
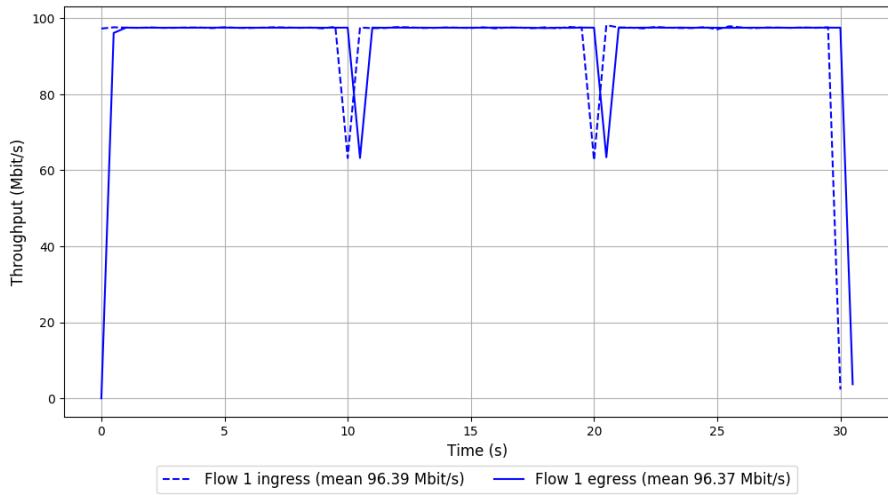
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.29	9.04	0.00
Copa	5	12.73	1.97	66.15
TCP Cubic	5	97.48	32.21	0.01
FillP	5	96.04	9.11	0.29
FillP-Sheep	5	94.63	5.31	0.08
Indigo	5	97.20	5.00	0.00
Indigo-MusesC3	5	96.84	3.66	0.00
Indigo-MusesC5	5	51.37	3.71	0.00
Indigo-MusesD	5	64.12	3.95	0.00
Indigo-MusesT	5	96.87	2.63	0.00
LEDBAT	5	97.05	31.65	0.01
Muses_DecisionTree	5	9.98	2.25	0.00
Muses_DecisionTreeH0	5	31.22	2.47	0.00
Muses_DecisionTreeR0	5	24.23	2.14	0.00
PCC-Allegro	5	82.72	2.24	0.00
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	78.13	3.66	0.23
SCReAM	5	0.22	2.33	0.00
Sprout	5	50.31	11.84	0.00
TaoVA-100x	5	9.63	2.01	79.50
TCP Vegas	5	96.70	3.42	0.00
Verus	5	60.71	10.83	1.20
PCC-Vivace	5	84.66	1.82	0.00
WebRTC media	5	0.05	5.85	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-11-23 22:29:40
End at: 2019-11-23 22:30:10
Local clock offset: -10.777 ms
Remote clock offset: 0.176 ms

# Below is generated by plot.py at 2019-11-24 00:28:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.37 Mbit/s
95th percentile per-packet one-way delay: 7.205 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.37 Mbit/s
95th percentile per-packet one-way delay: 7.205 ms
Loss rate: 0.00%
```

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

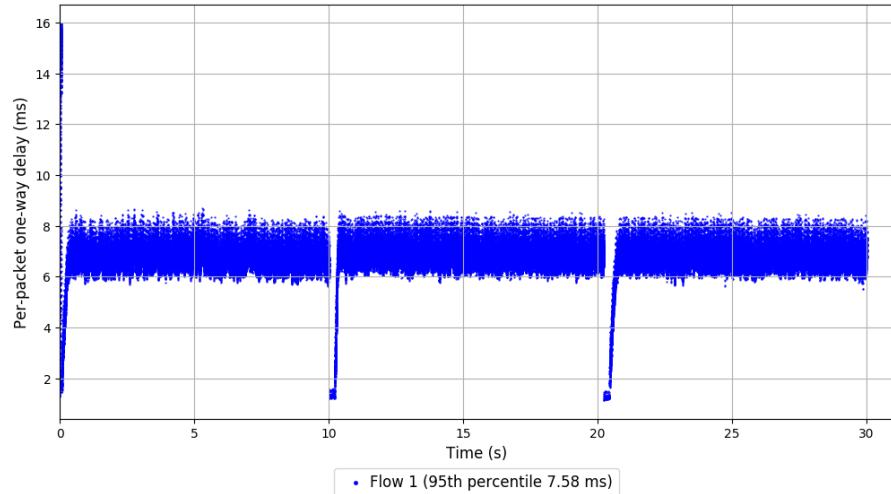
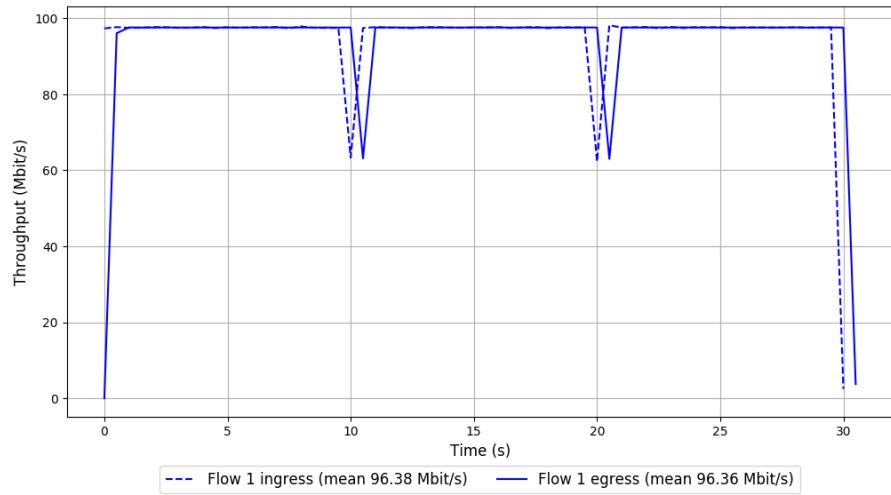


Run 2: Statistics of TCP BBR

```
Start at: 2019-11-23 22:56:25
End at: 2019-11-23 22:56:55
Local clock offset: -15.808 ms
Remote clock offset: 0.543 ms

# Below is generated by plot.py at 2019-11-24 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 7.581 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 7.581 ms
Loss rate: 0.00%
```

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

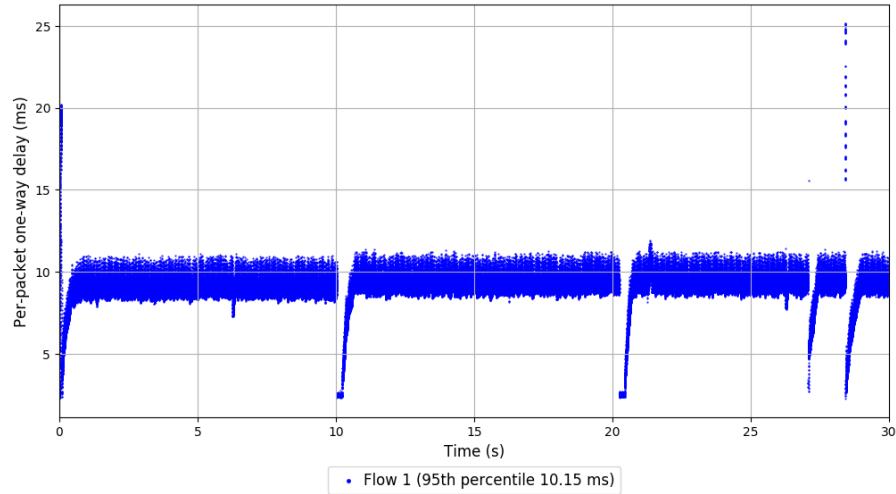
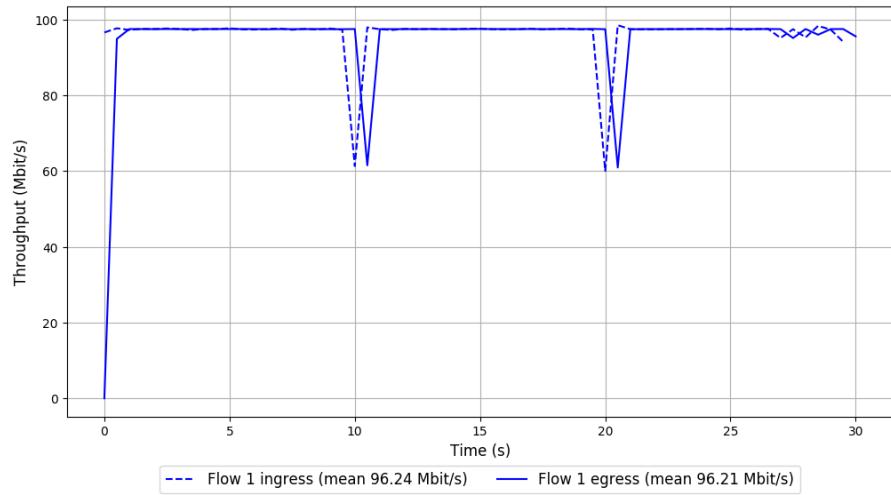


Run 3: Statistics of TCP BBR

```
Start at: 2019-11-23 23:23:03
End at: 2019-11-23 23:23:33
Local clock offset: -13.405 ms
Remote clock offset: 0.633 ms

# Below is generated by plot.py at 2019-11-24 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 10.152 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 10.152 ms
Loss rate: 0.01%
```

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

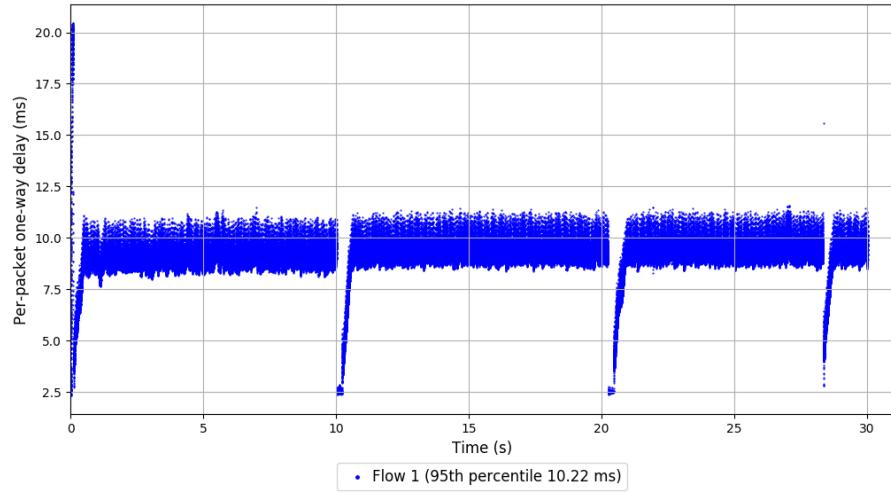
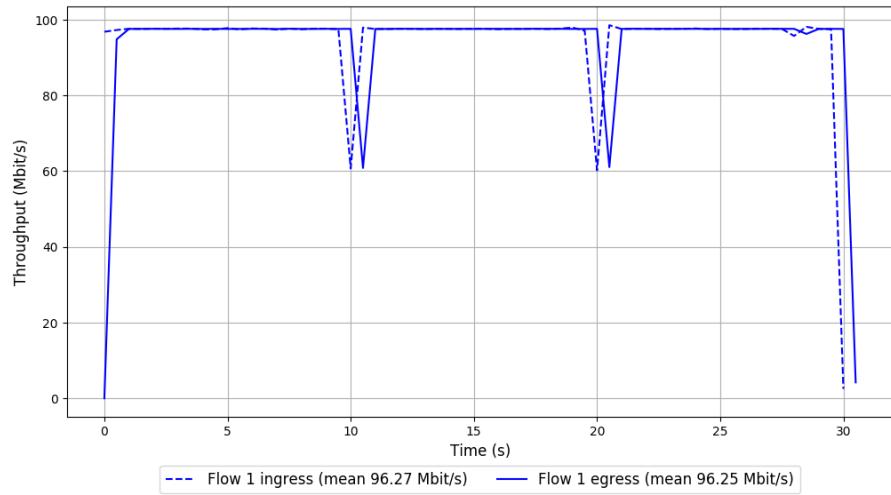


Run 4: Statistics of TCP BBR

```
Start at: 2019-11-23 23:49:41
End at: 2019-11-23 23:50:11
Local clock offset: -10.751 ms
Remote clock offset: 0.216 ms

# Below is generated by plot.py at 2019-11-24 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 10.216 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 10.216 ms
Loss rate: 0.00%
```

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

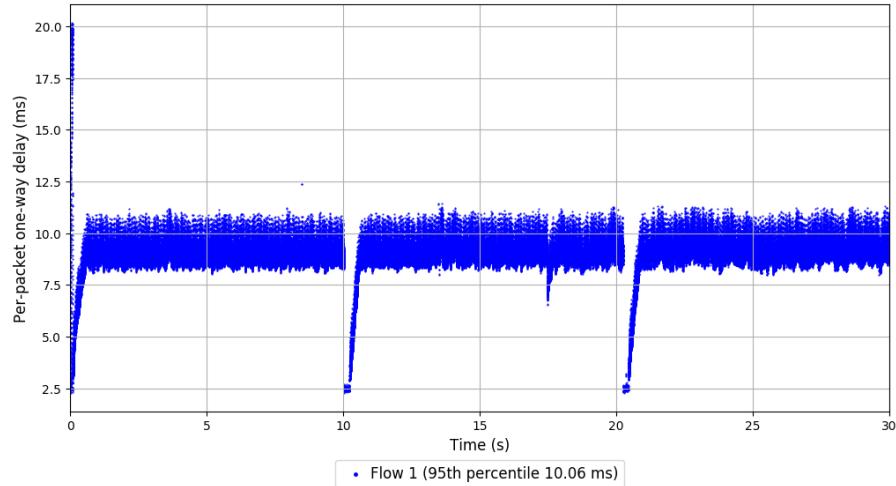
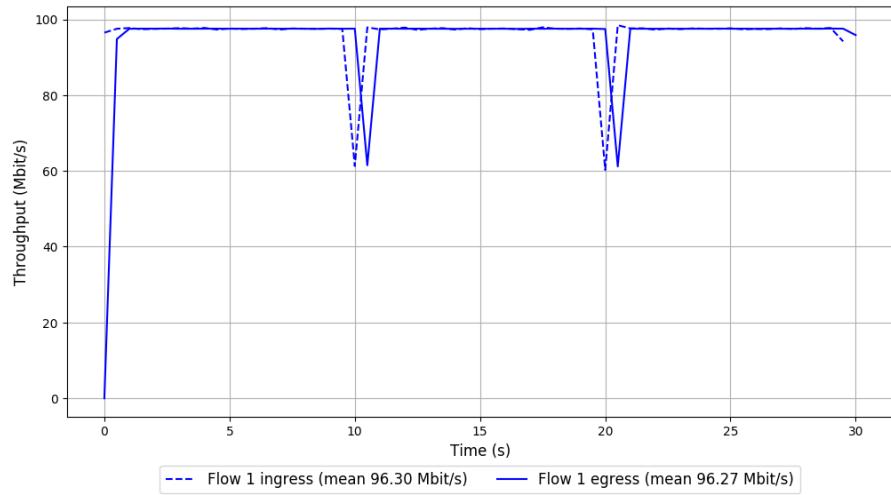


Run 5: Statistics of TCP BBR

```
Start at: 2019-11-24 00:16:27
End at: 2019-11-24 00:16:57
Local clock offset: -9.037 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-11-24 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 10.065 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 10.065 ms
Loss rate: 0.01%
```

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

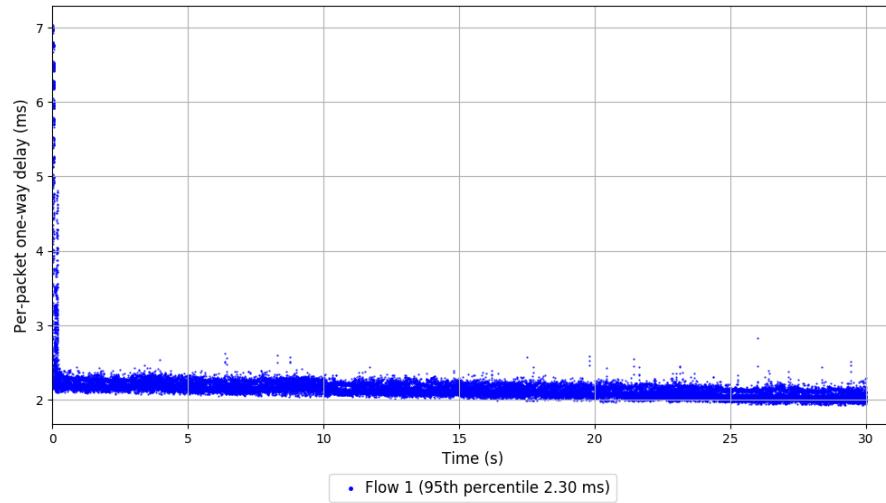
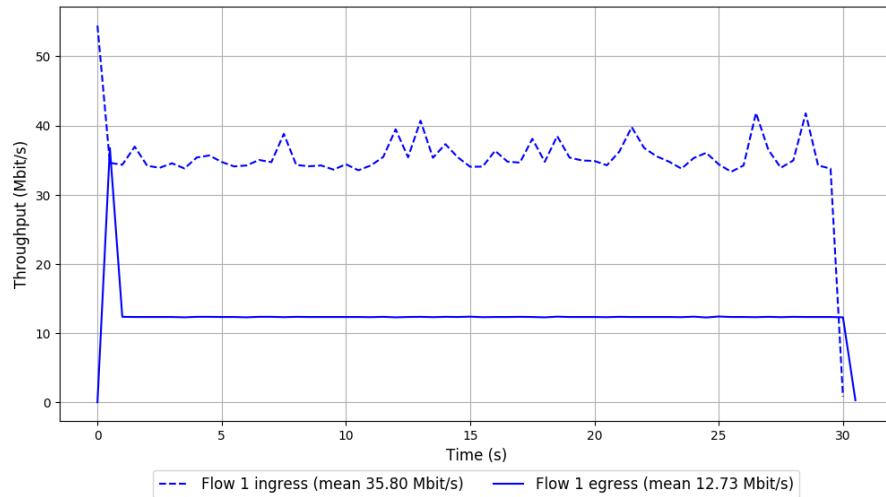


Run 1: Statistics of Copa

```
Start at: 2019-11-23 22:34:08
End at: 2019-11-23 22:34:38
Local clock offset: -11.12 ms
Remote clock offset: 0.279 ms

# Below is generated by plot.py at 2019-11-24 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 2.297 ms
Loss rate: 64.45%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 2.297 ms
Loss rate: 64.45%
```

## Run 1: Report of Copa — Data Link

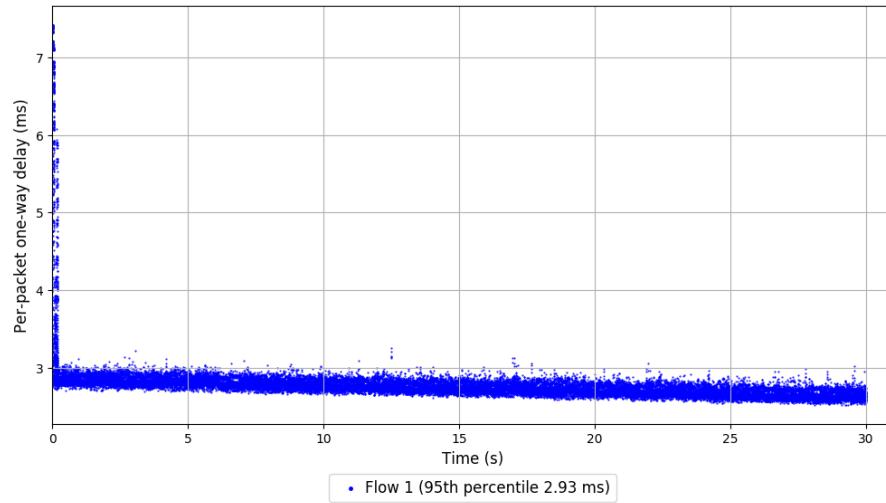
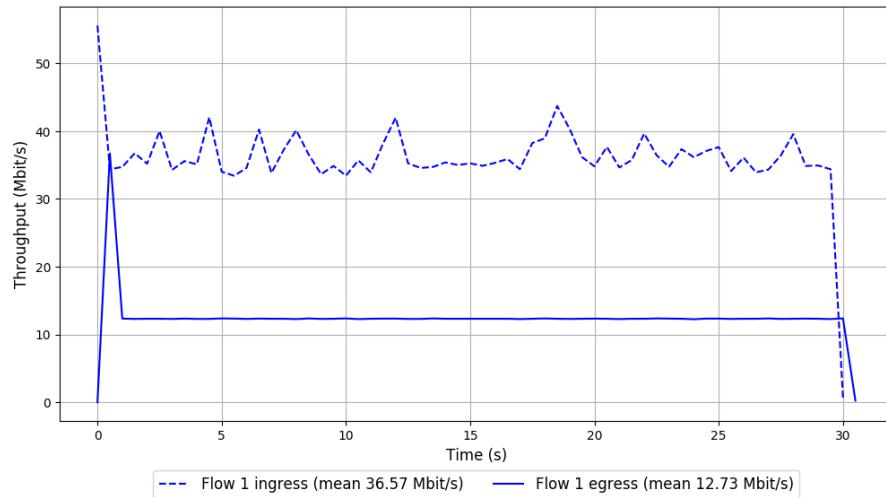


Run 2: Statistics of Copa

```
Start at: 2019-11-23 23:00:50
End at: 2019-11-23 23:01:20
Local clock offset: -17.534 ms
Remote clock offset: 0.597 ms

# Below is generated by plot.py at 2019-11-24 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 2.933 ms
Loss rate: 65.20%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 2.933 ms
Loss rate: 65.20%
```

## Run 2: Report of Copa — Data Link

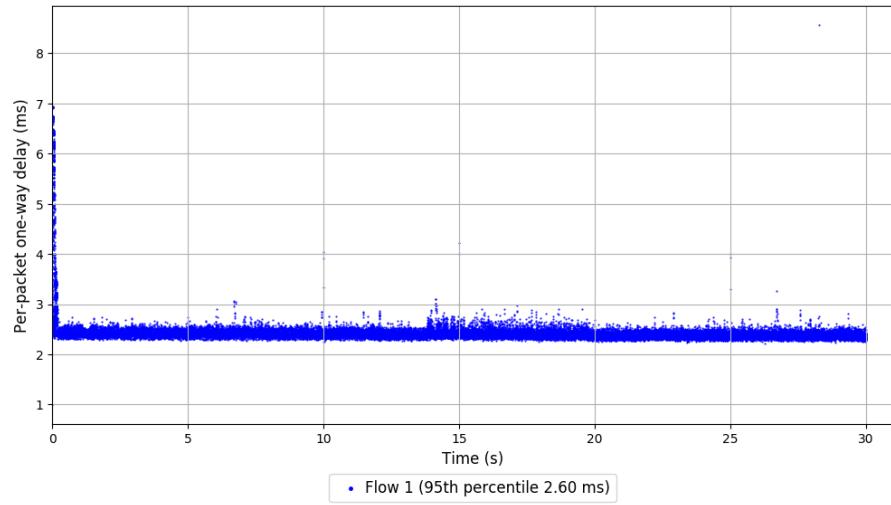
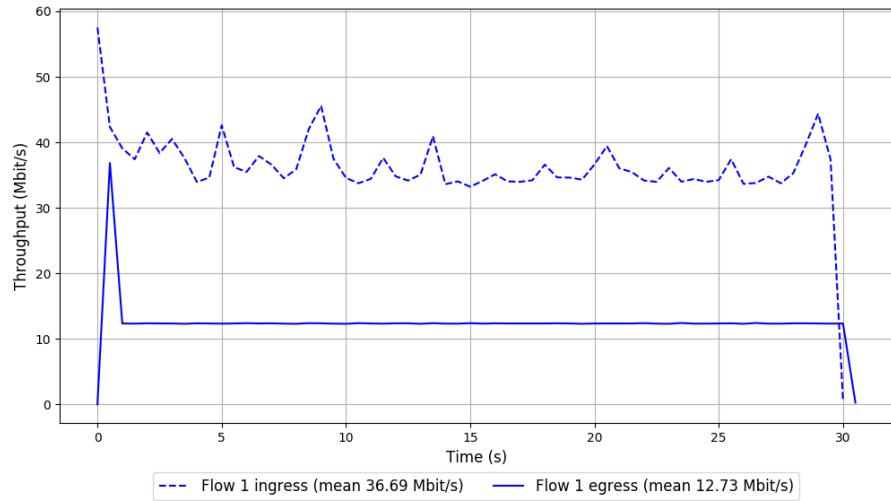


Run 3: Statistics of Copa

```
Start at: 2019-11-23 23:27:29
End at: 2019-11-23 23:27:59
Local clock offset: -13.58 ms
Remote clock offset: 0.6 ms

# Below is generated by plot.py at 2019-11-24 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 2.597 ms
Loss rate: 65.30%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 2.597 ms
Loss rate: 65.30%
```

### Run 3: Report of Copa — Data Link

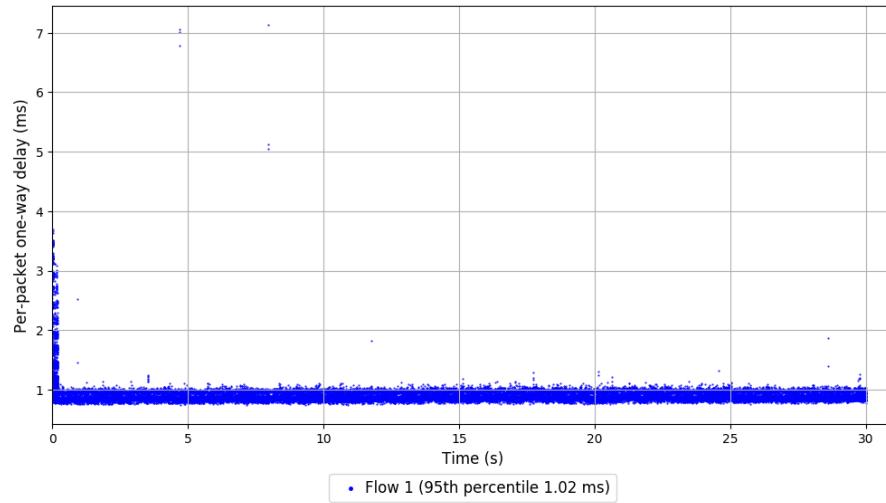
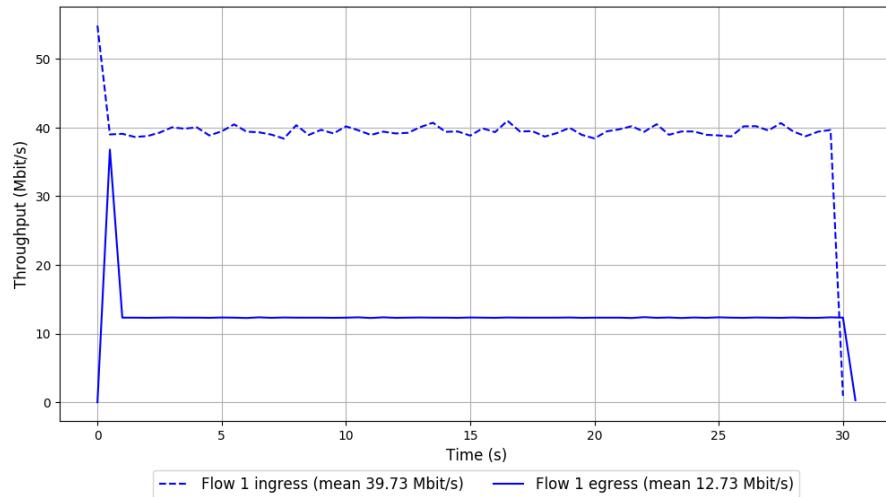


Run 4: Statistics of Copa

```
Start at: 2019-11-23 23:54:06
End at: 2019-11-23 23:54:36
Local clock offset: -10.254 ms
Remote clock offset: 0.256 ms

# Below is generated by plot.py at 2019-11-24 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 1.020 ms
Loss rate: 67.96%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 1.020 ms
Loss rate: 67.96%
```

## Run 4: Report of Copa — Data Link

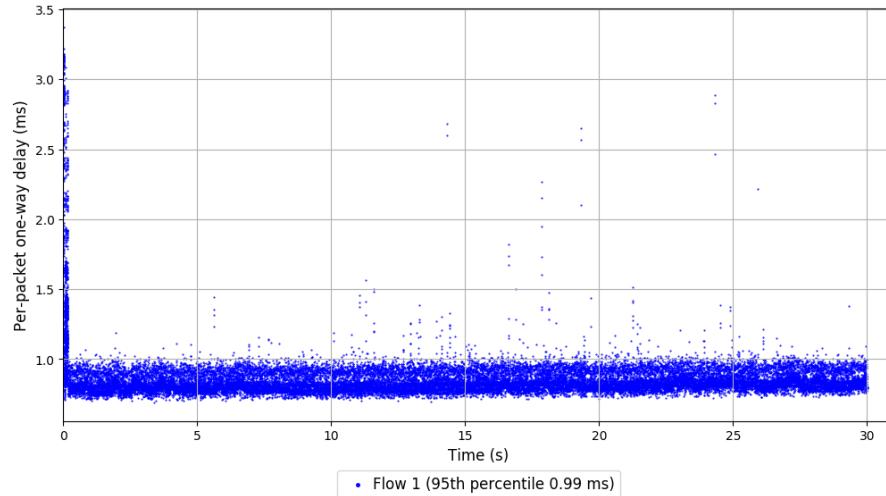
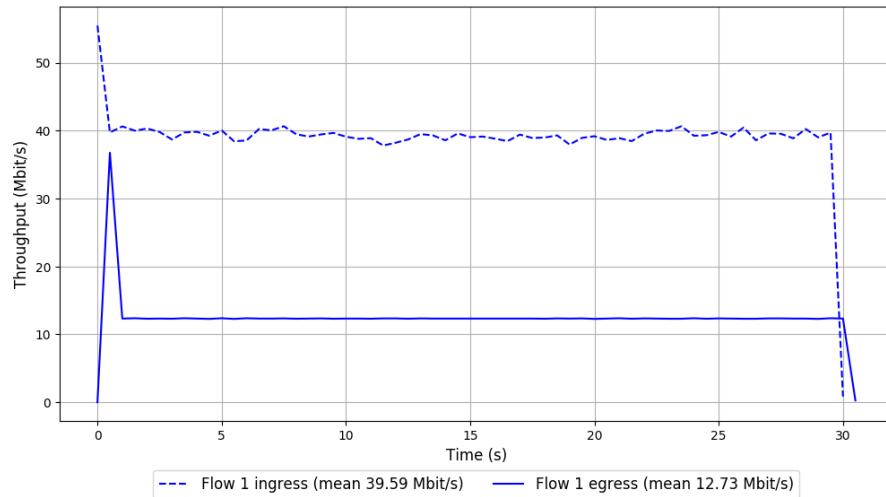


Run 5: Statistics of Copa

```
Start at: 2019-11-24 00:20:53
End at: 2019-11-24 00:21:23
Local clock offset: -8.487 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-11-24 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 0.989 ms
Loss rate: 67.84%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 0.989 ms
Loss rate: 67.84%
```

### Run 5: Report of Copa — Data Link

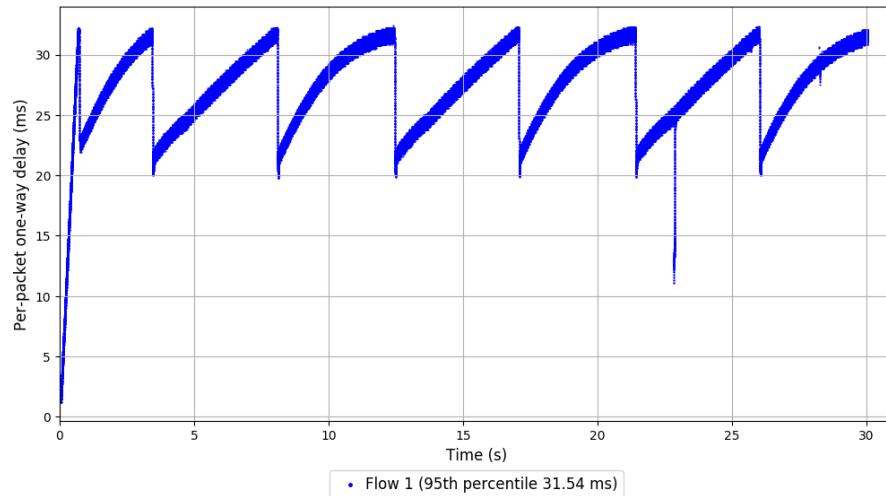
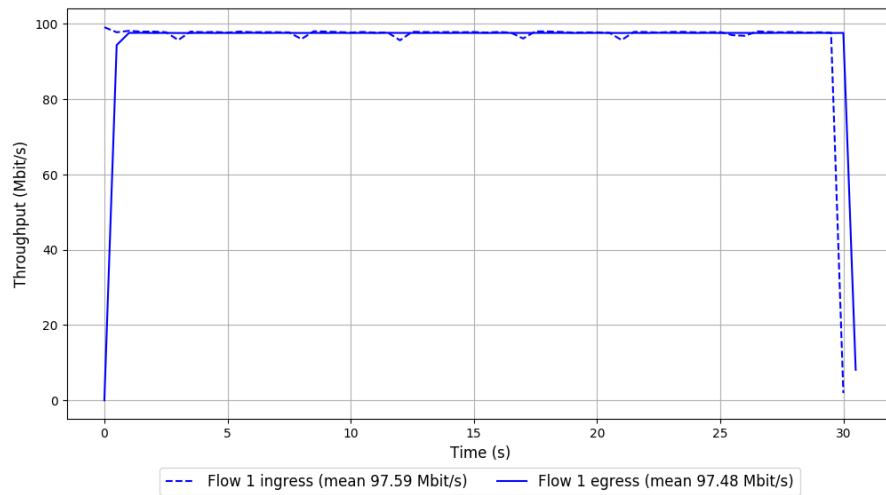


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-11-23 22:14:07
End at: 2019-11-23 22:14:37
Local clock offset: -8.47 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-11-24 00:28:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 31.543 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 31.543 ms
Loss rate: 0.01%
```

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

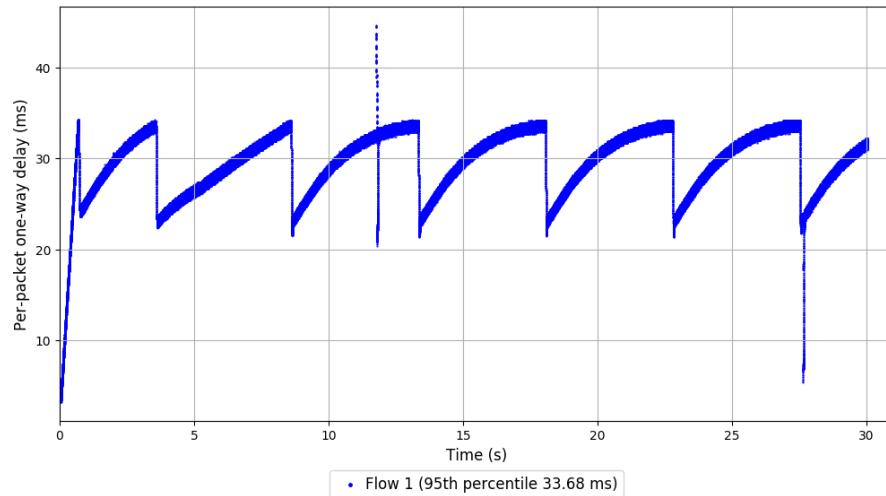
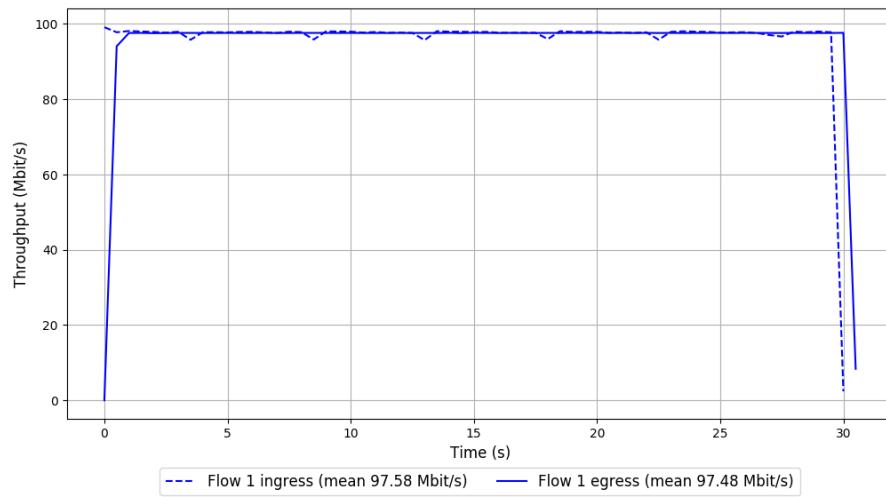


Run 2: Statistics of TCP Cubic

```
Start at: 2019-11-23 22:40:53
End at: 2019-11-23 22:41:23
Local clock offset: -13.902 ms
Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2019-11-24 00:28:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 33.681 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 33.681 ms
Loss rate: 0.01%
```

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

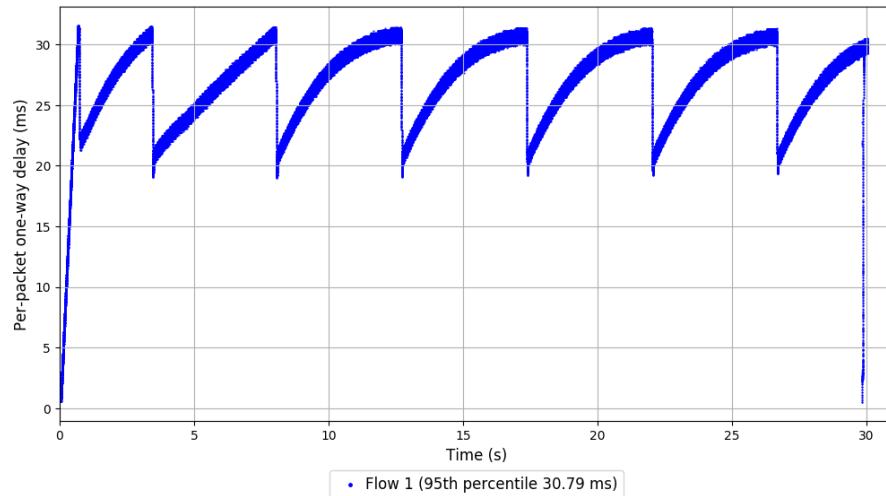
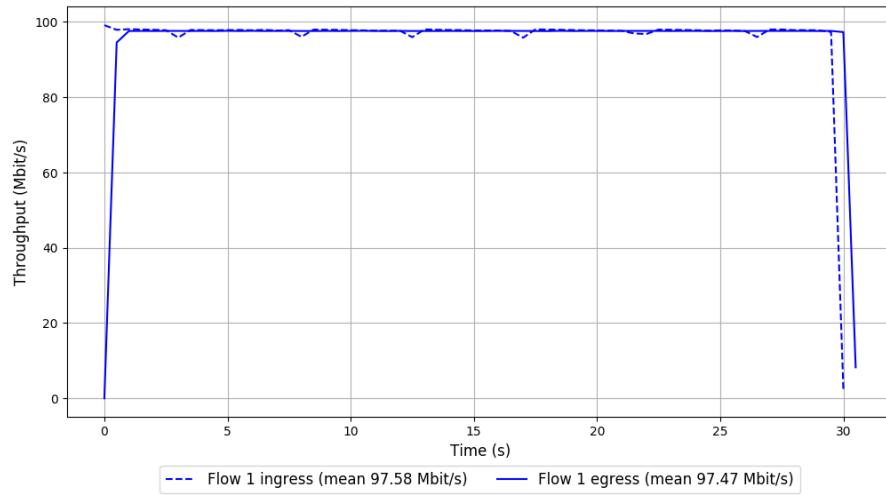


Run 3: Statistics of TCP Cubic

```
Start at: 2019-11-23 23:07:31
End at: 2019-11-23 23:08:01
Local clock offset: -19.827 ms
Remote clock offset: 0.694 ms

# Below is generated by plot.py at 2019-11-24 00:29:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 30.794 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 30.794 ms
Loss rate: 0.01%
```

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

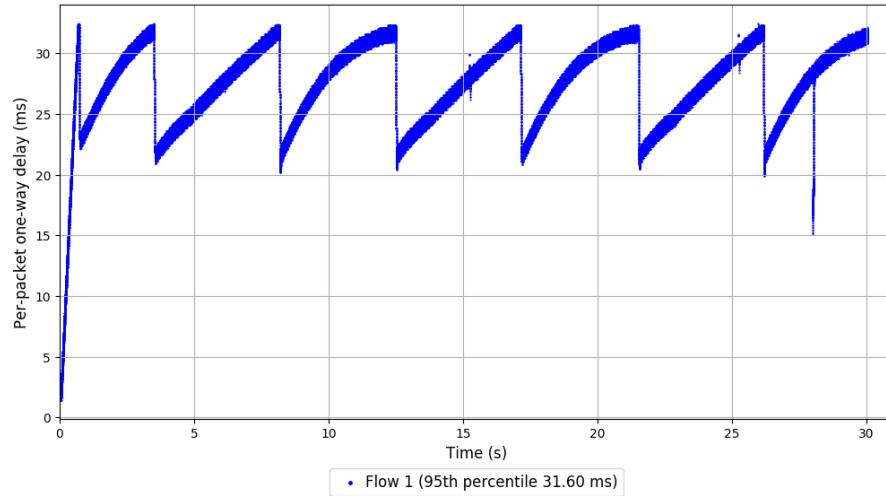
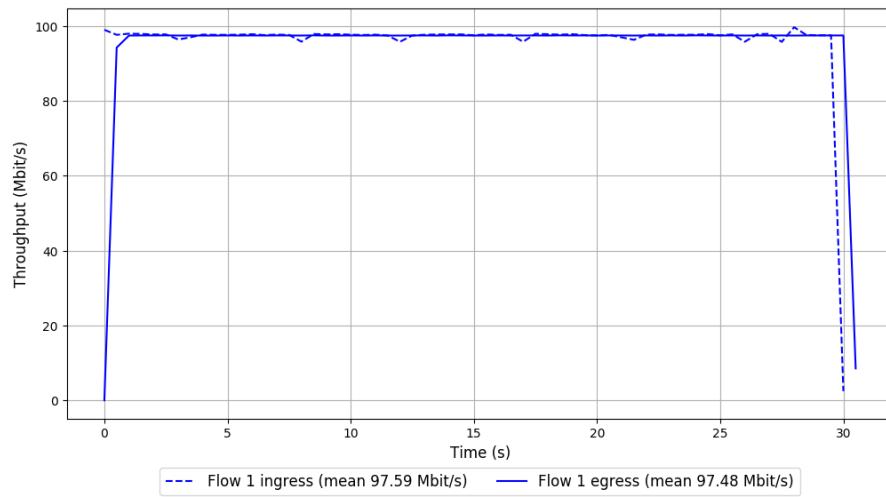


Run 4: Statistics of TCP Cubic

```
Start at: 2019-11-23 23:34:09
End at: 2019-11-23 23:34:39
Local clock offset: -15.224 ms
Remote clock offset: 0.517 ms

# Below is generated by plot.py at 2019-11-24 00:29:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 31.600 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 31.600 ms
Loss rate: 0.01%
```

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

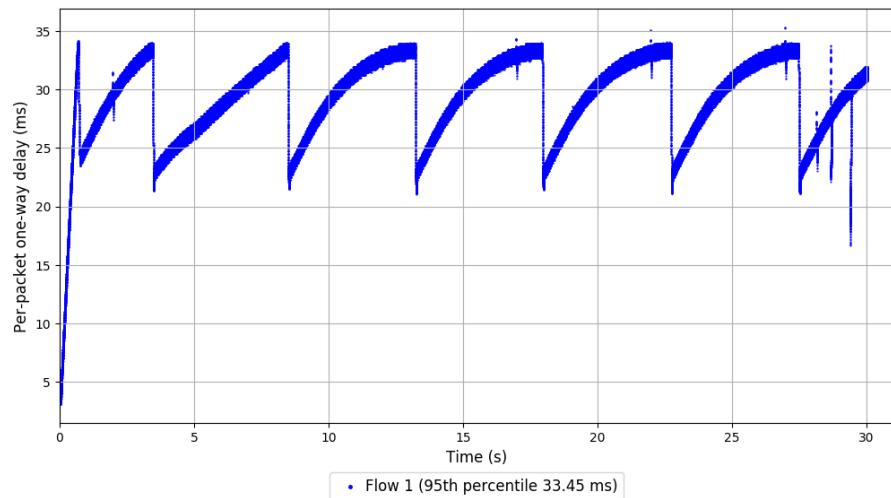
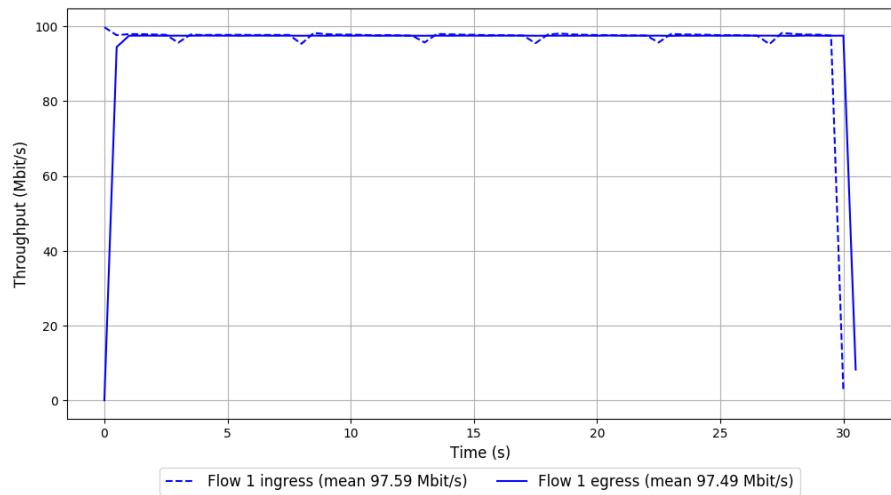


Run 5: Statistics of TCP Cubic

```
Start at: 2019-11-24 00:00:46
End at: 2019-11-24 00:01:16
Local clock offset: -11.159 ms
Remote clock offset: 0.151 ms

# Below is generated by plot.py at 2019-11-24 00:29:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 33.453 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 33.453 ms
Loss rate: 0.02%
```

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

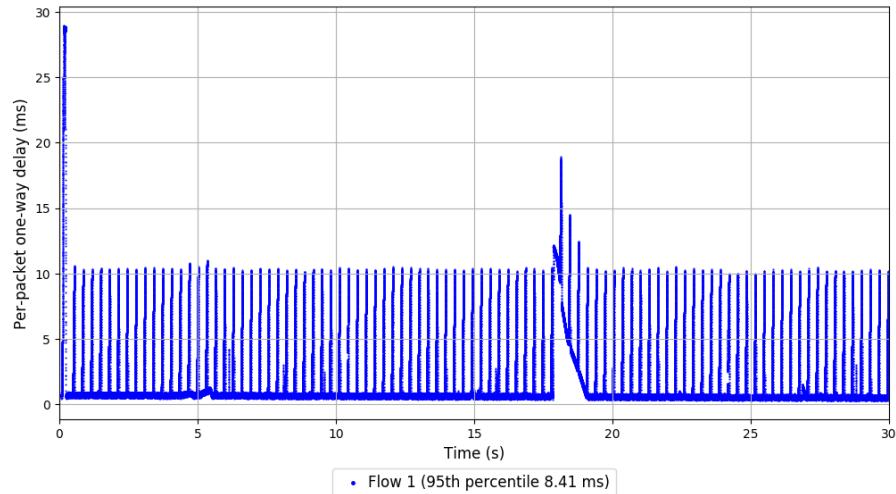
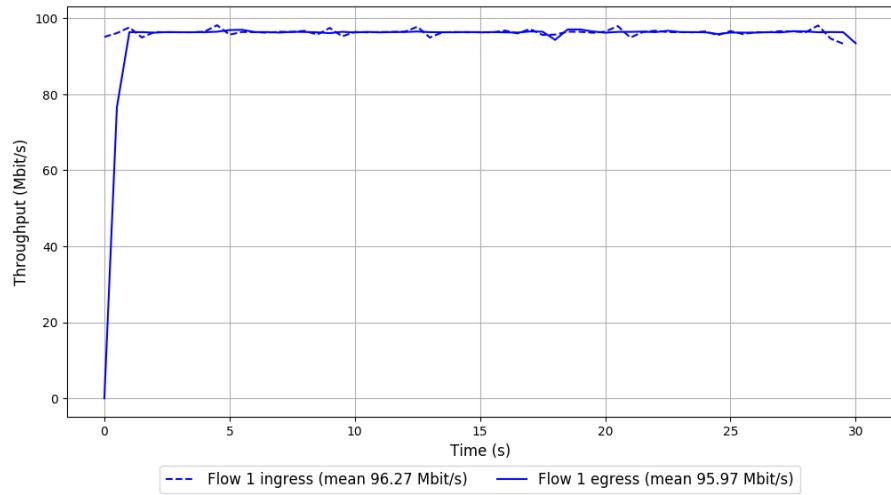


```
Run 1: Statistics of FillP

Start at: 2019-11-23 22:35:13
End at: 2019-11-23 22:35:43
Local clock offset: -11.506 ms
Remote clock offset: 0.326 ms

# Below is generated by plot.py at 2019-11-24 00:29:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 8.411 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 8.411 ms
Loss rate: 0.31%
```

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

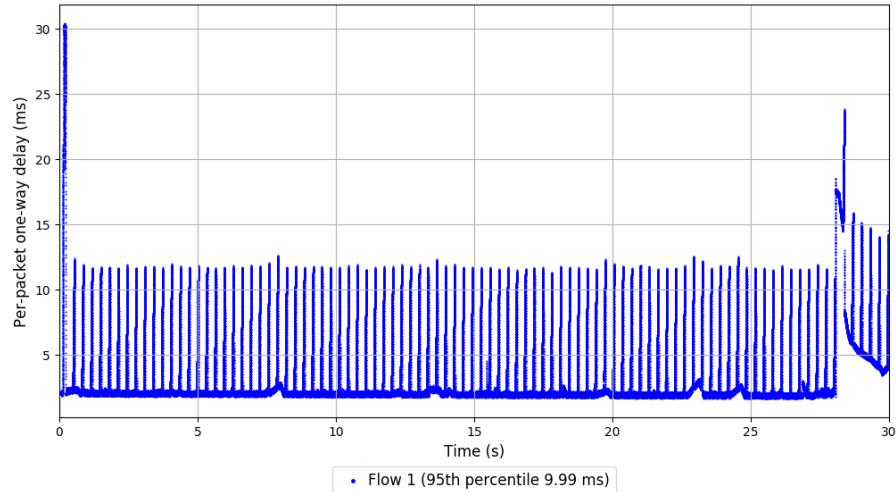
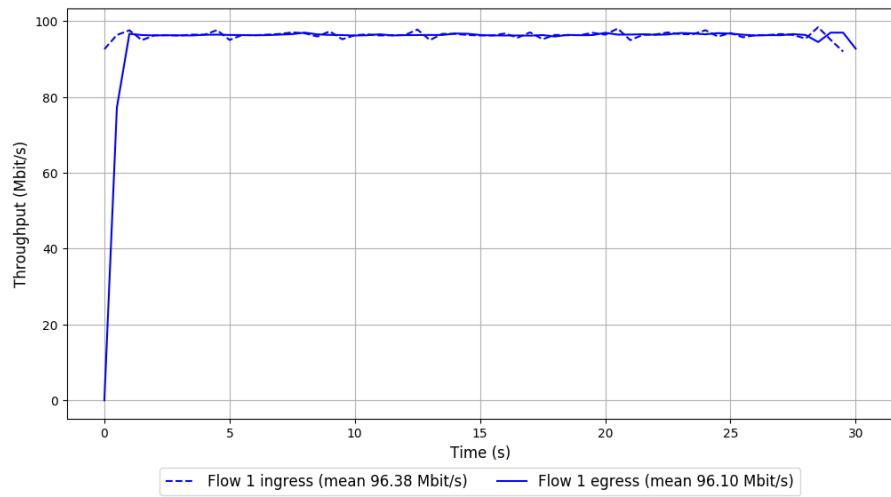


Run 2: Statistics of FillP

```
Start at: 2019-11-23 23:01:55
End at: 2019-11-23 23:02:25
Local clock offset: -17.201 ms
Remote clock offset: 0.658 ms

# Below is generated by plot.py at 2019-11-24 00:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 9.992 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 9.992 ms
Loss rate: 0.26%
```

## Run 2: Report of FillP — Data Link

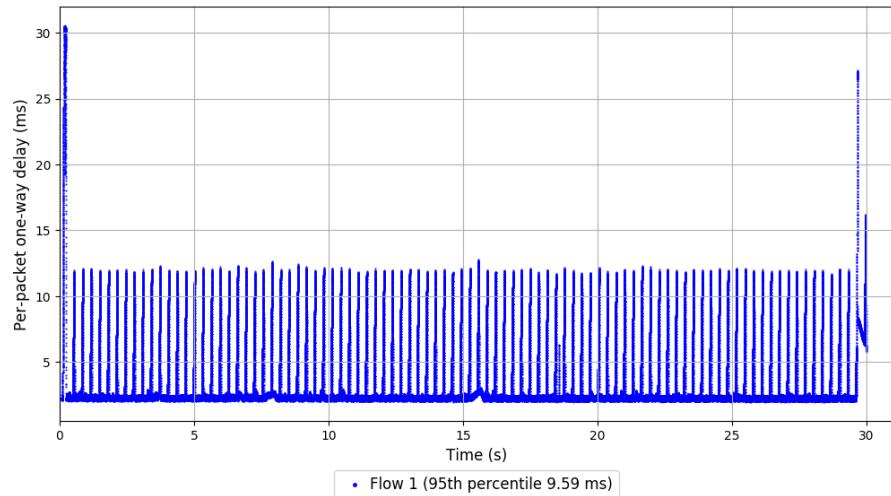
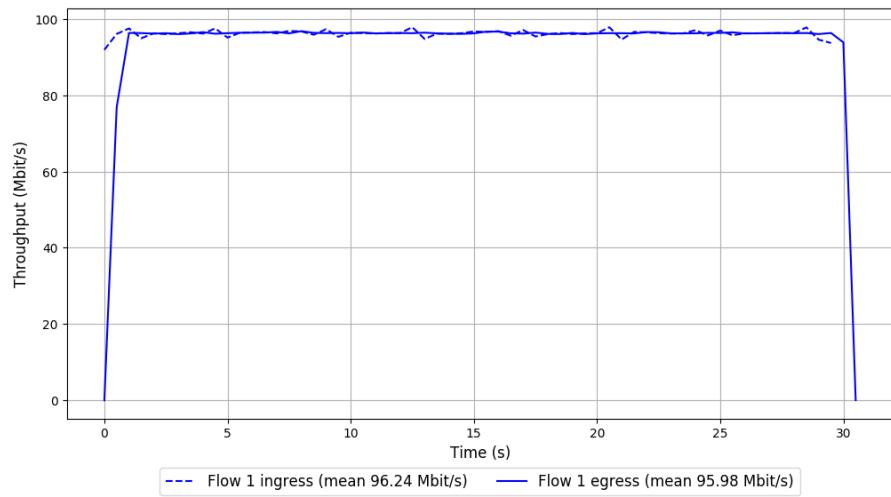


Run 3: Statistics of FillP

```
Start at: 2019-11-23 23:28:34
End at: 2019-11-23 23:29:04
Local clock offset: -13.617 ms
Remote clock offset: 0.526 ms

# Below is generated by plot.py at 2019-11-24 00:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 9.589 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 9.589 ms
Loss rate: 0.25%
```

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

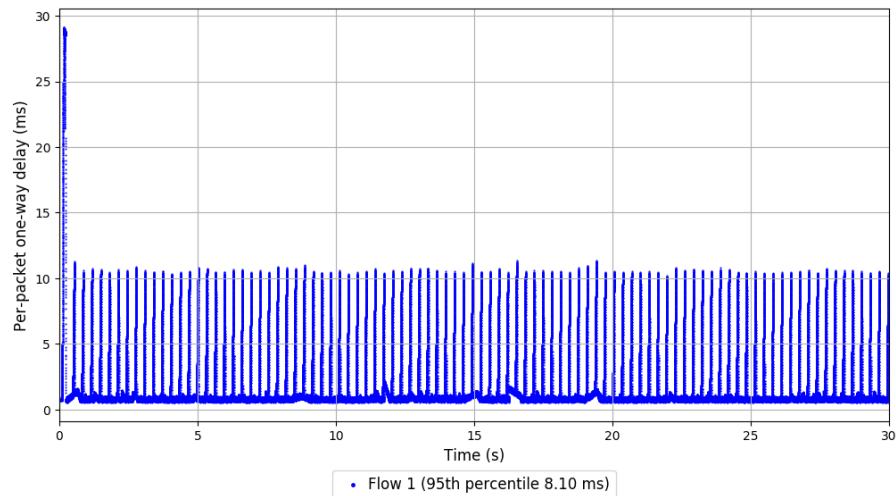
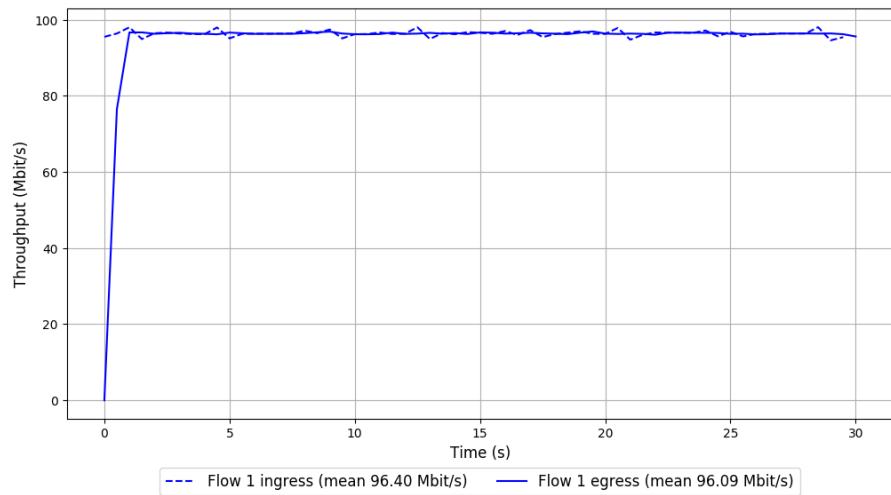


Run 4: Statistics of FillP

```
Start at: 2019-11-23 23:55:11
End at: 2019-11-23 23:55:41
Local clock offset: -10.216 ms
Remote clock offset: 0.173 ms

# Below is generated by plot.py at 2019-11-24 00:30:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 8.099 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 8.099 ms
Loss rate: 0.32%
```

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

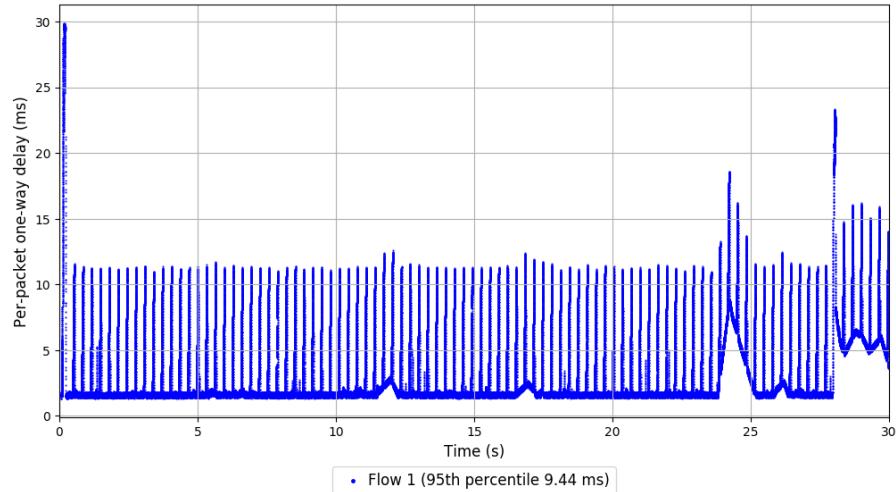
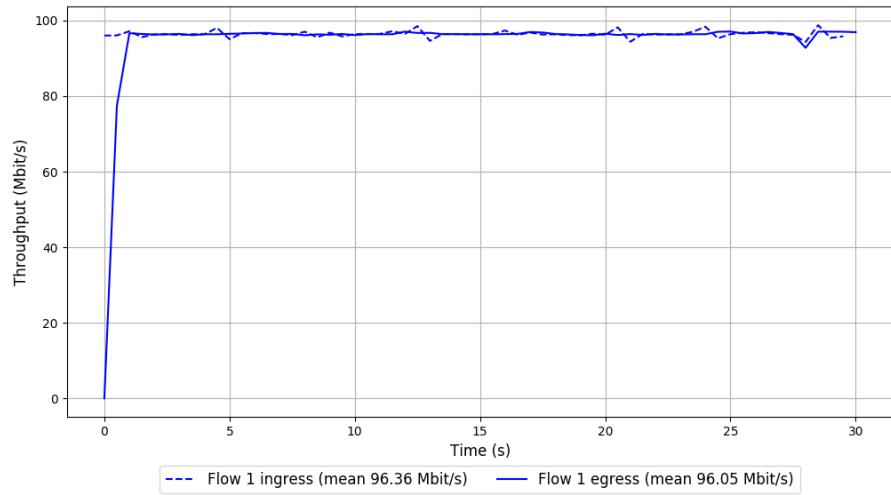


Run 5: Statistics of FillP

```
Start at: 2019-11-24 00:21:58
End at: 2019-11-24 00:22:28
Local clock offset: -9.185 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-11-24 00:30:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.05 Mbit/s
95th percentile per-packet one-way delay: 9.436 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 96.05 Mbit/s
95th percentile per-packet one-way delay: 9.436 ms
Loss rate: 0.31%
```

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

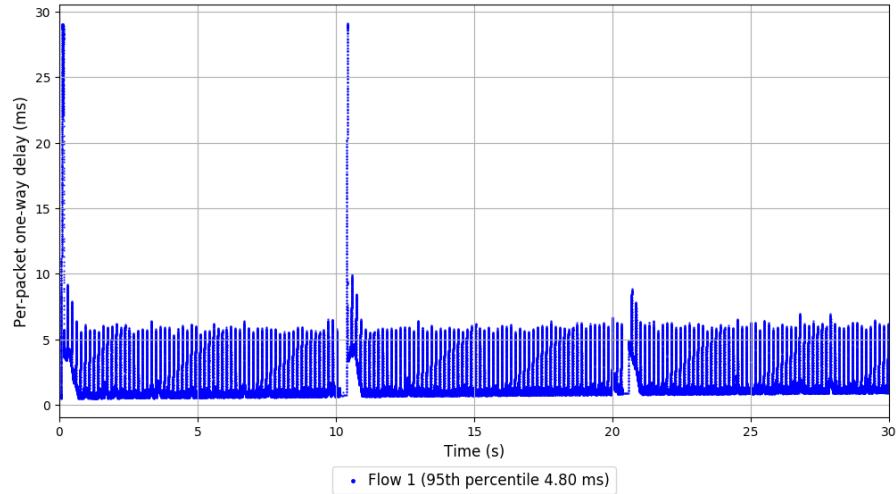
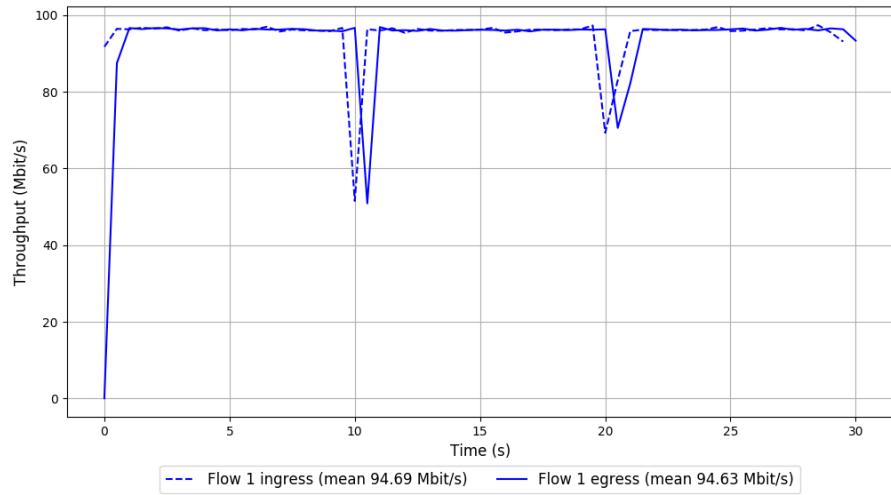


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-11-23 22:26:23
End at: 2019-11-23 22:26:53
Local clock offset: -12.145 ms
Remote clock offset: 0.247 ms

# Below is generated by plot.py at 2019-11-24 00:30:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 4.803 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 4.803 ms
Loss rate: 0.07%
```

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

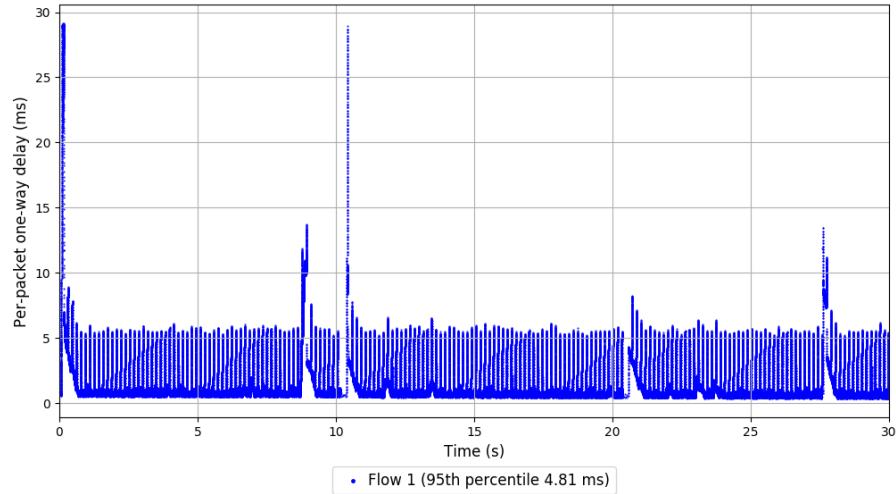
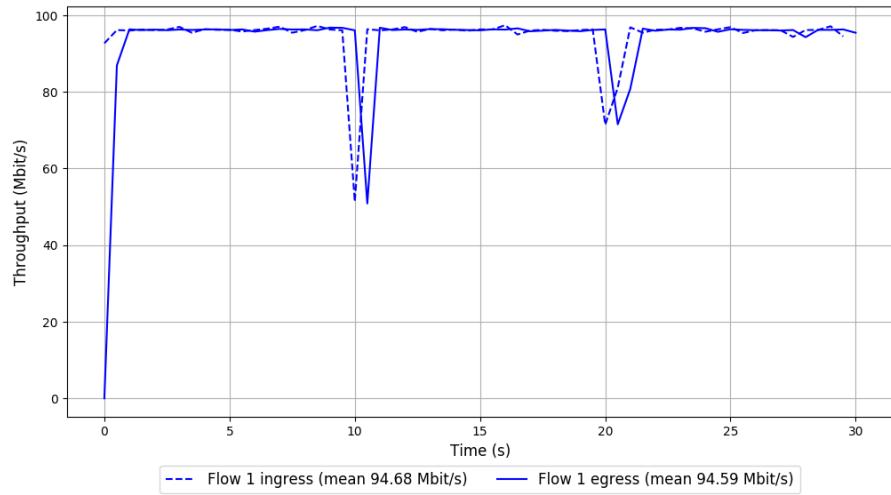


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-11-23 22:53:08
End at: 2019-11-23 22:53:39
Local clock offset: -13.982 ms
Remote clock offset: 0.59 ms

# Below is generated by plot.py at 2019-11-24 00:30:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.59 Mbit/s
95th percentile per-packet one-way delay: 4.813 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.59 Mbit/s
95th percentile per-packet one-way delay: 4.813 ms
Loss rate: 0.09%
```

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

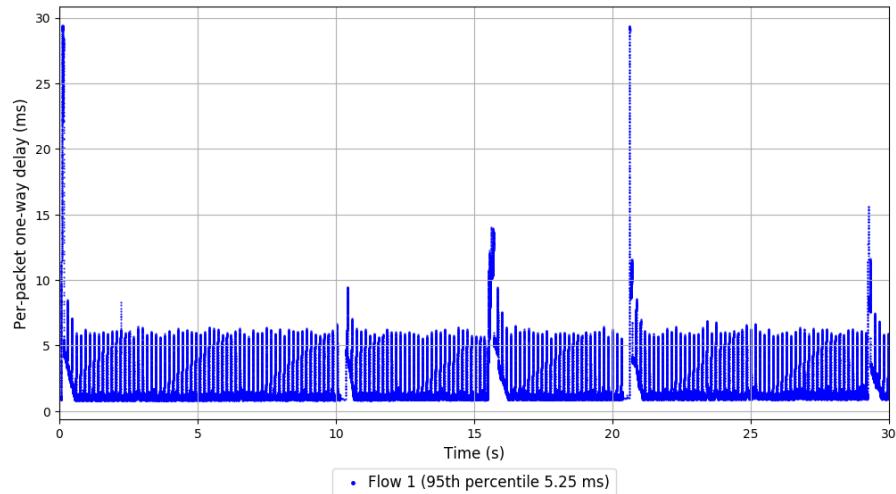
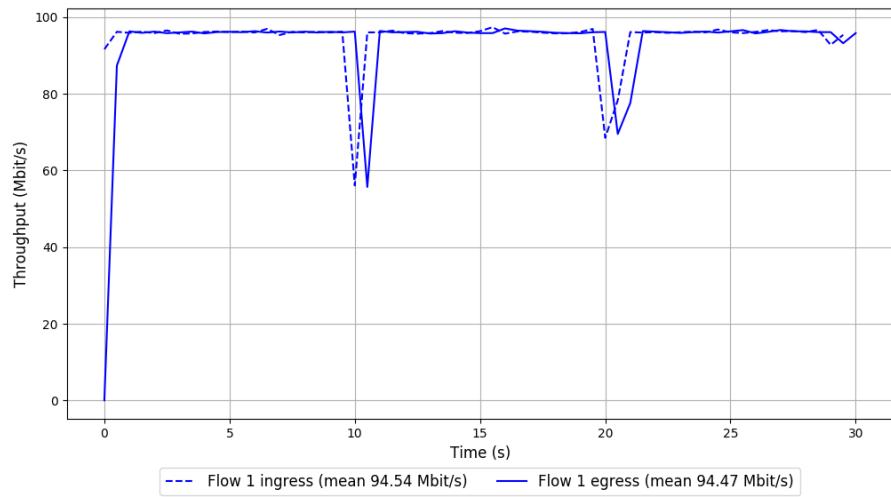


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-11-23 23:19:47
End at: 2019-11-23 23:20:17
Local clock offset: -13.903 ms
Remote clock offset: 0.725 ms

# Below is generated by plot.py at 2019-11-24 00:30:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.47 Mbit/s
95th percentile per-packet one-way delay: 5.245 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 94.47 Mbit/s
95th percentile per-packet one-way delay: 5.245 ms
Loss rate: 0.07%
```

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

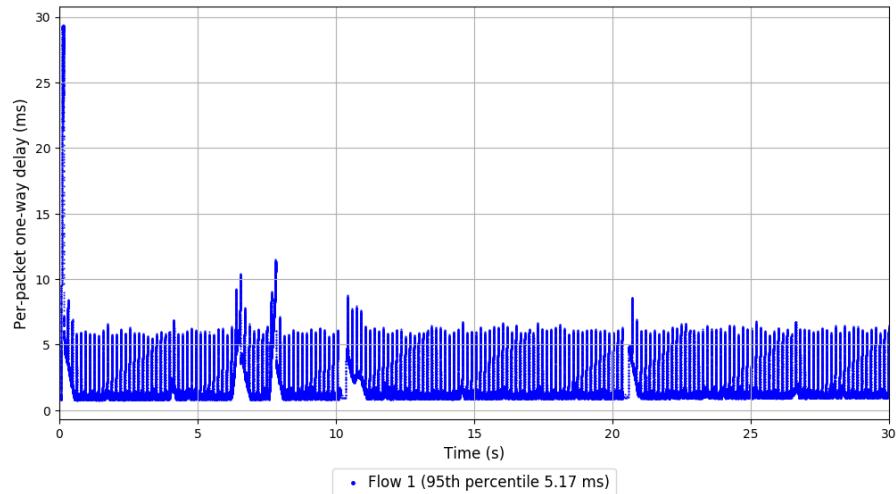
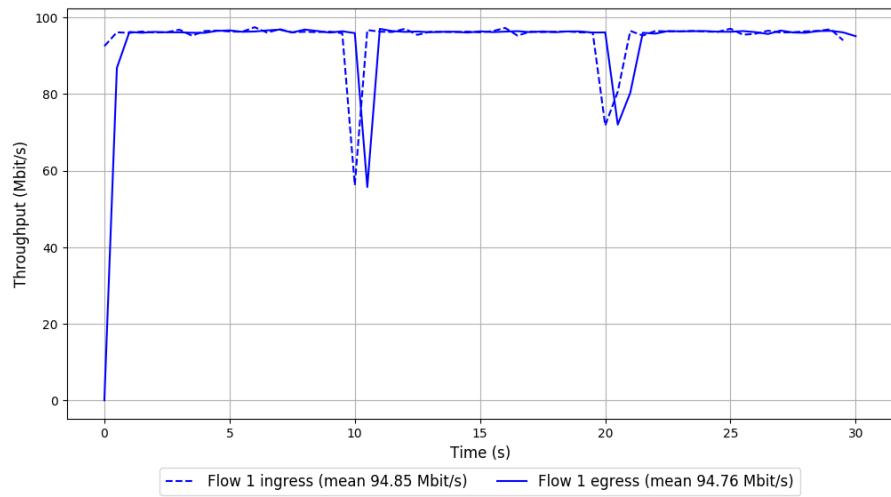


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-11-23 23:46:25
End at: 2019-11-23 23:46:55
Local clock offset: -11.644 ms
Remote clock offset: 0.305 ms

# Below is generated by plot.py at 2019-11-24 00:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.76 Mbit/s
95th percentile per-packet one-way delay: 5.169 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 94.76 Mbit/s
95th percentile per-packet one-way delay: 5.169 ms
Loss rate: 0.10%
```

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

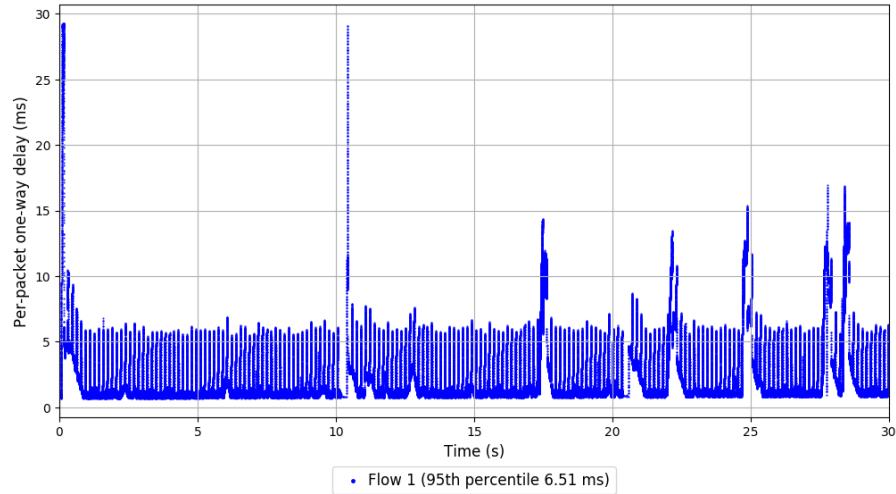
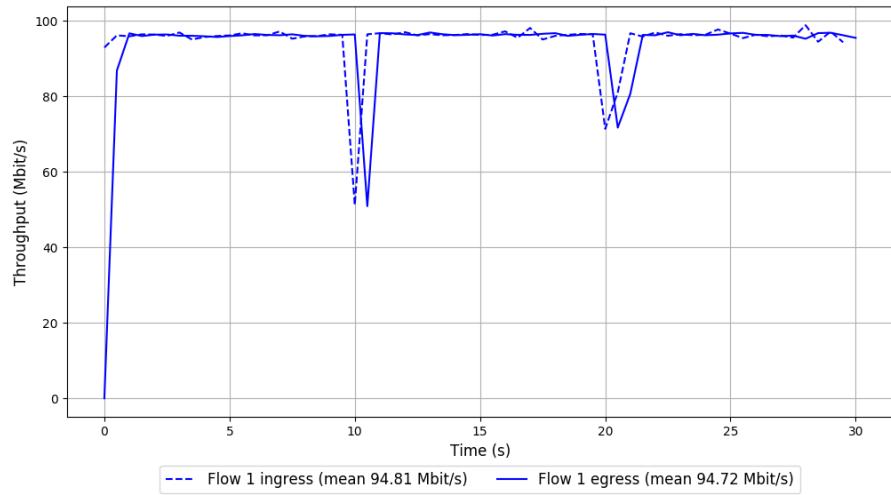


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-11-24 00:13:11
End at: 2019-11-24 00:13:41
Local clock offset: -9.838 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-11-24 00:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.72 Mbit/s
95th percentile per-packet one-way delay: 6.515 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.72 Mbit/s
95th percentile per-packet one-way delay: 6.515 ms
Loss rate: 0.09%
```

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

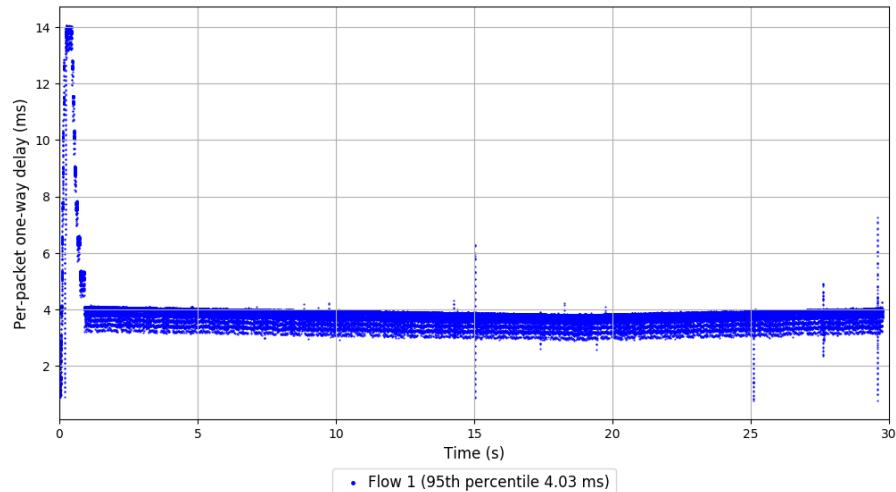
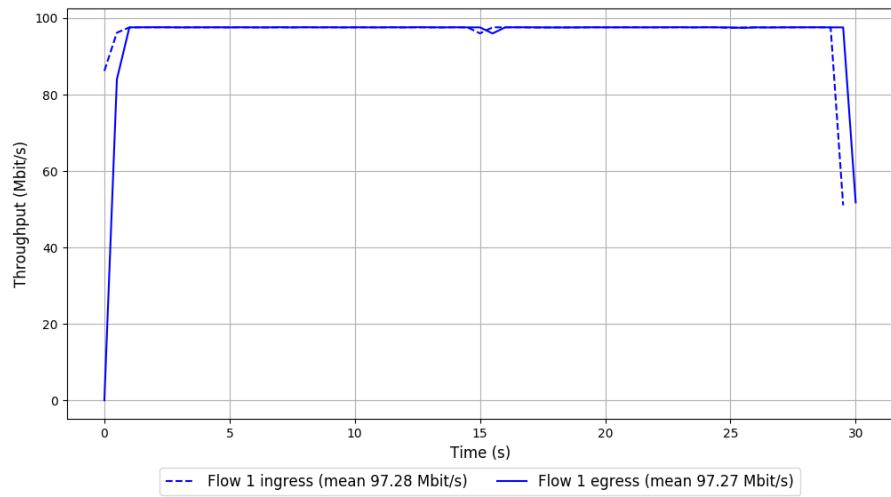


Run 1: Statistics of Indigo

```
Start at: 2019-11-23 22:17:29
End at: 2019-11-23 22:17:59
Local clock offset: -10.004 ms
Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2019-11-24 00:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 4.029 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 4.029 ms
Loss rate: 0.00%
```

## Run 1: Report of Indigo — Data Link

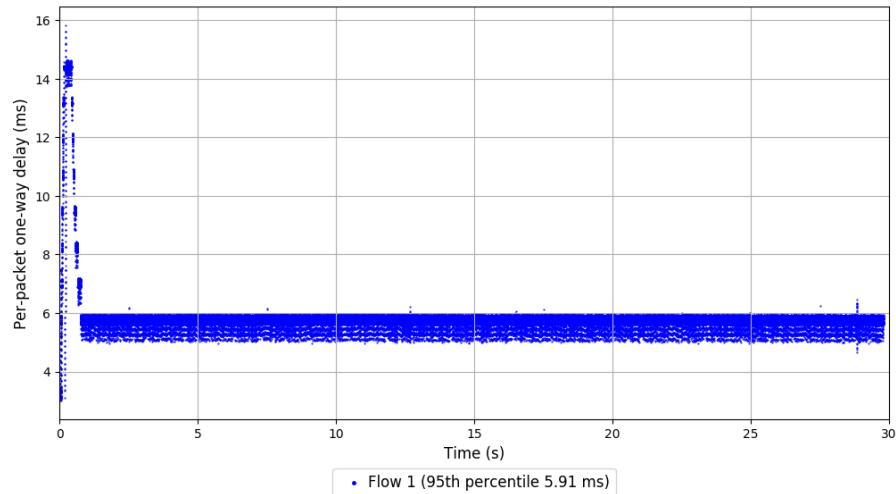
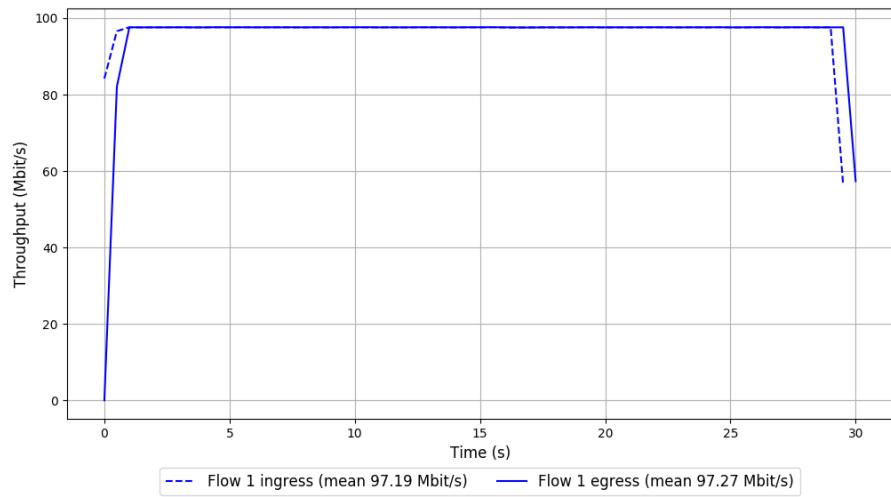


Run 2: Statistics of Indigo

```
Start at: 2019-11-23 22:44:17
End at: 2019-11-23 22:44:47
Local clock offset: -13.23 ms
Remote clock offset: 0.456 ms

# Below is generated by plot.py at 2019-11-24 00:31:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 5.914 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 5.914 ms
Loss rate: 0.00%
```

## Run 2: Report of Indigo — Data Link

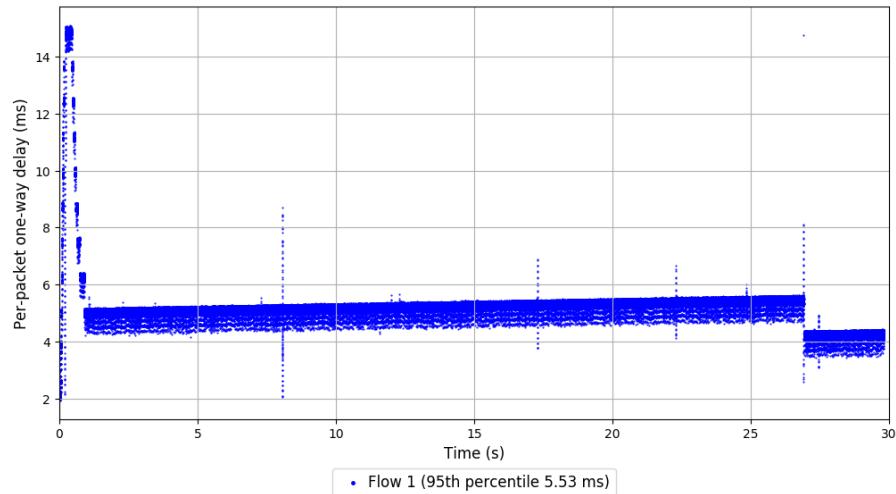
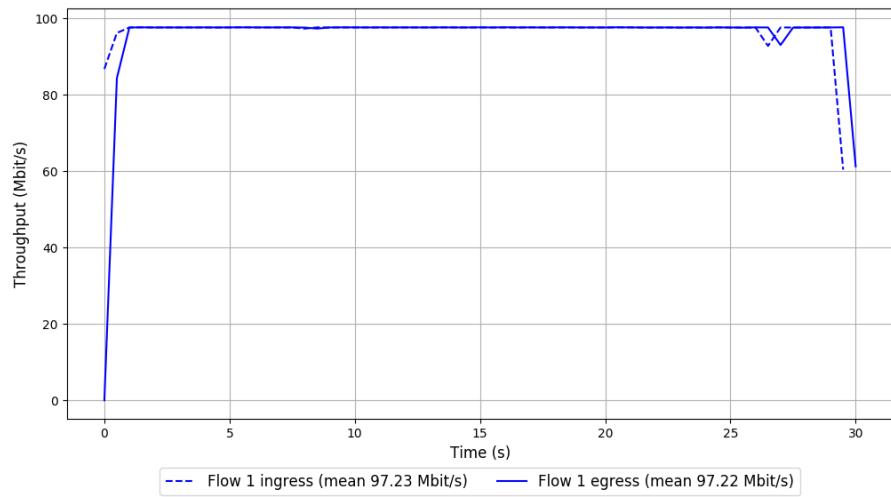


Run 3: Statistics of Indigo

```
Start at: 2019-11-23 23:10:53
End at: 2019-11-23 23:11:24
Local clock offset: -19.9 ms
Remote clock offset: 0.803 ms

# Below is generated by plot.py at 2019-11-24 00:31:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 5.526 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 5.526 ms
Loss rate: 0.00%
```

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

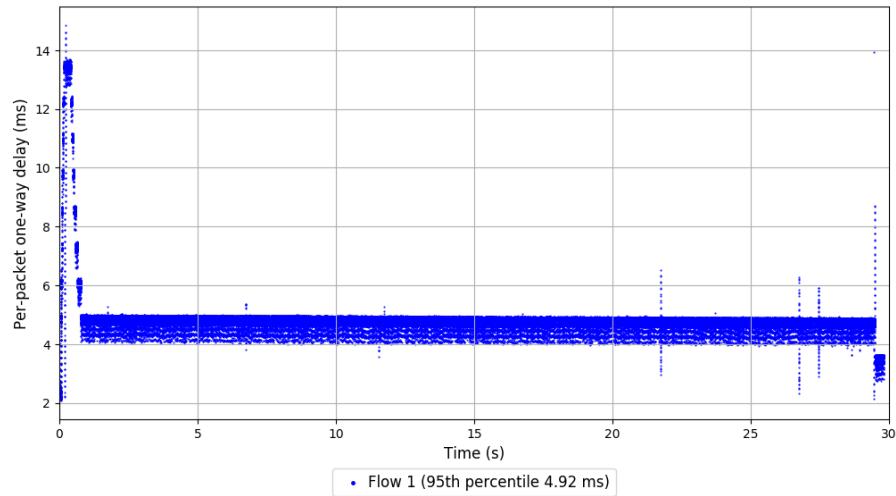
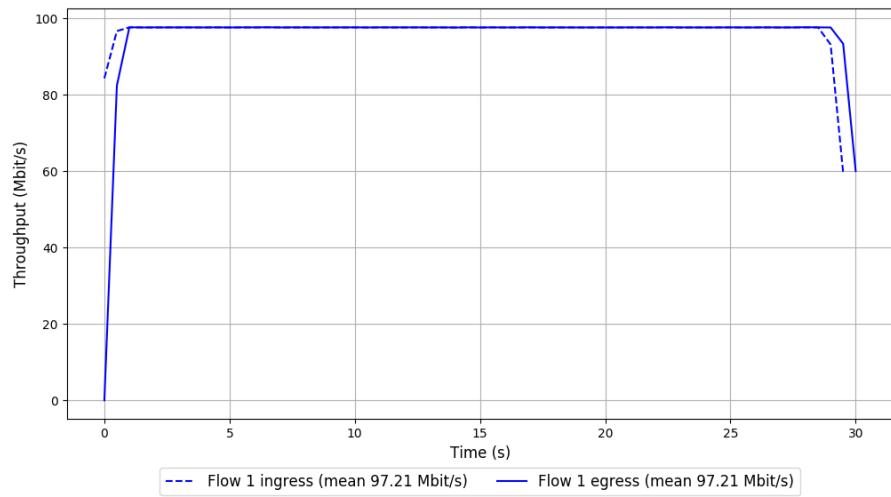


Run 4: Statistics of Indigo

```
Start at: 2019-11-23 23:37:32
End at: 2019-11-23 23:38:02
Local clock offset: -15.178 ms
Remote clock offset: 0.398 ms

# Below is generated by plot.py at 2019-11-24 00:31:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.21 Mbit/s
95th percentile per-packet one-way delay: 4.924 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.21 Mbit/s
95th percentile per-packet one-way delay: 4.924 ms
Loss rate: 0.00%
```

## Run 4: Report of Indigo — Data Link

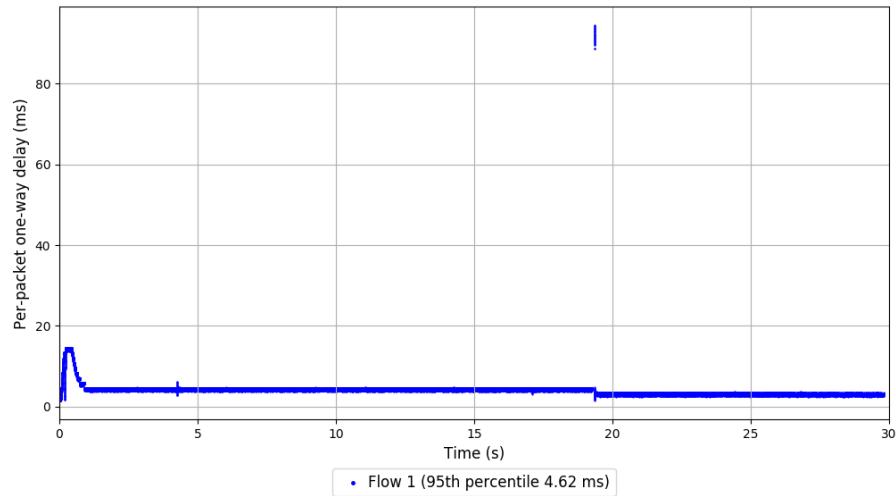
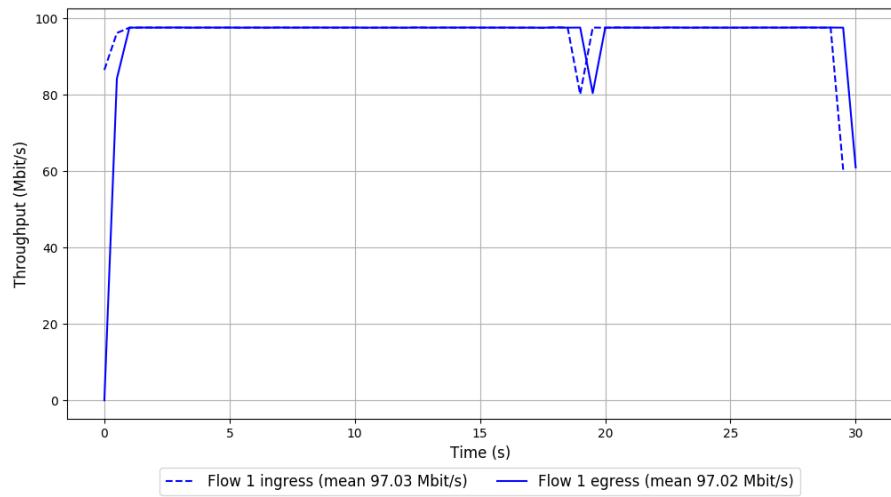


Run 5: Statistics of Indigo

```
Start at: 2019-11-24 00:04:08
End at: 2019-11-24 00:04:39
Local clock offset: -11.332 ms
Remote clock offset: 0.185 ms

# Below is generated by plot.py at 2019-11-24 00:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 4.616 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 4.616 ms
Loss rate: 0.00%
```

## Run 5: Report of Indigo — Data Link

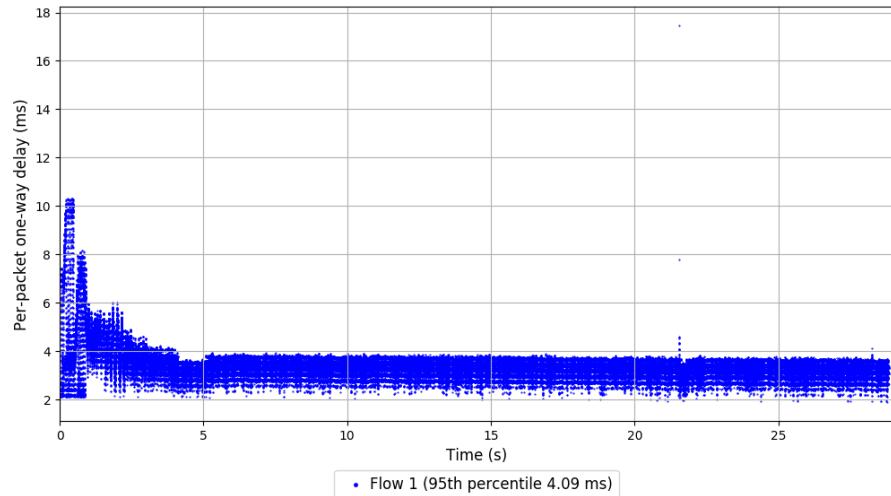
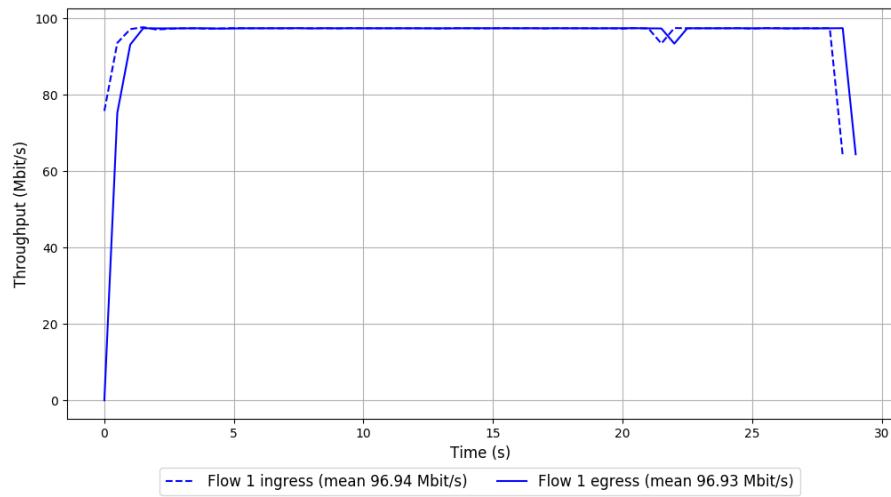


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-11-23 22:37:27
End at: 2019-11-23 22:37:57
Local clock offset: -12.43 ms
Remote clock offset: 0.344 ms

# Below is generated by plot.py at 2019-11-24 00:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 4.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 4.091 ms
Loss rate: 0.00%
```

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

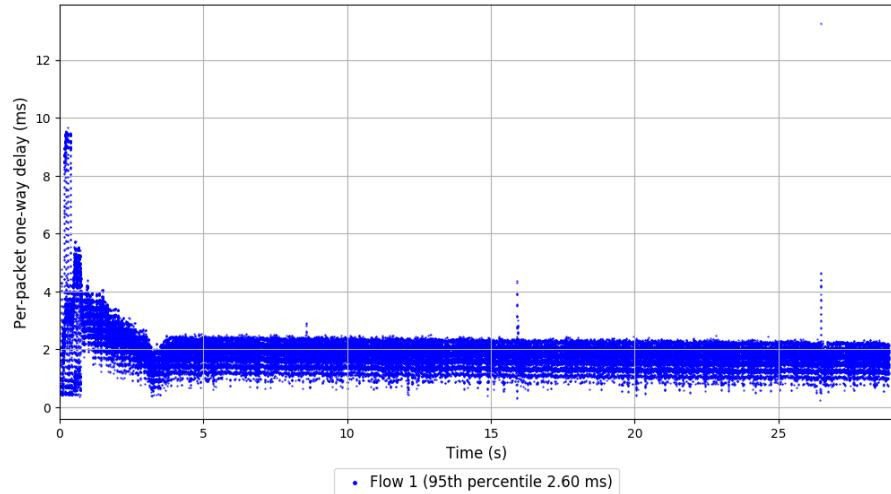
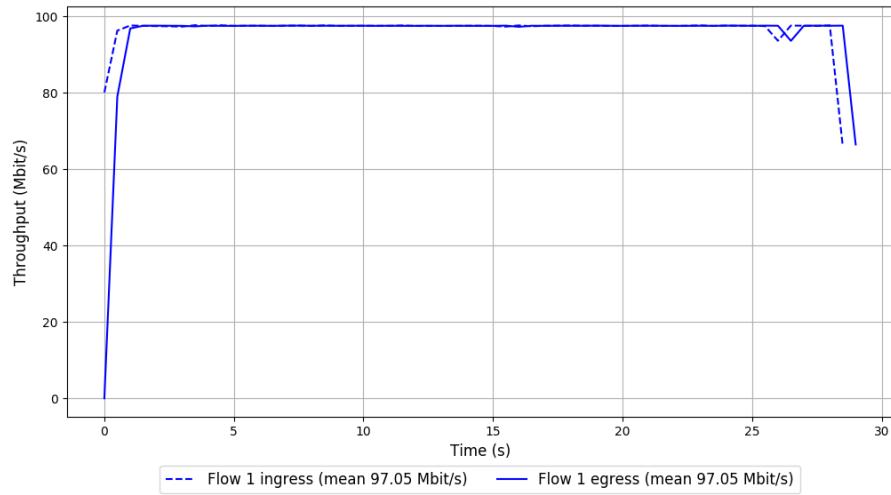


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-11-23 23:04:09
End at: 2019-11-23 23:04:39
Local clock offset: -18.17 ms
Remote clock offset: 0.658 ms

# Below is generated by plot.py at 2019-11-24 00:32:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 2.605 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 2.605 ms
Loss rate: 0.00%
```

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

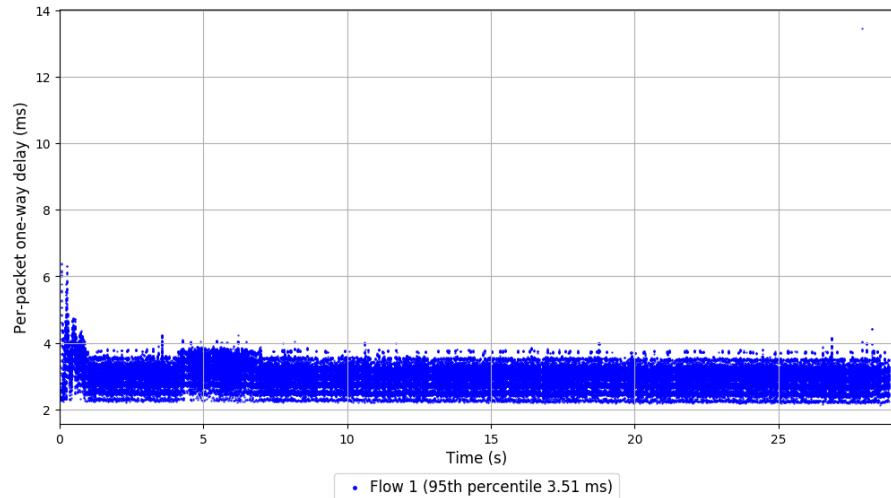
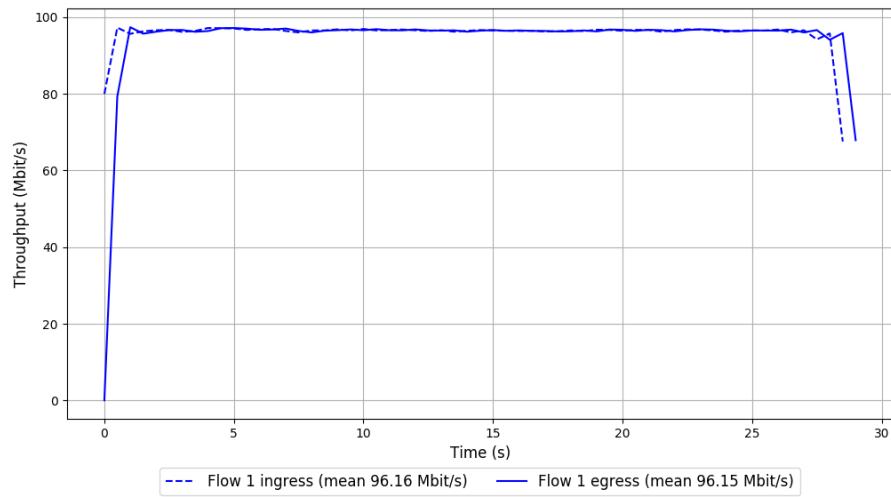


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-11-23 23:30:48
End at: 2019-11-23 23:31:18
Local clock offset: -13.918 ms
Remote clock offset: 0.588 ms

# Below is generated by plot.py at 2019-11-24 00:32:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 3.508 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 3.508 ms
Loss rate: 0.00%
```

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

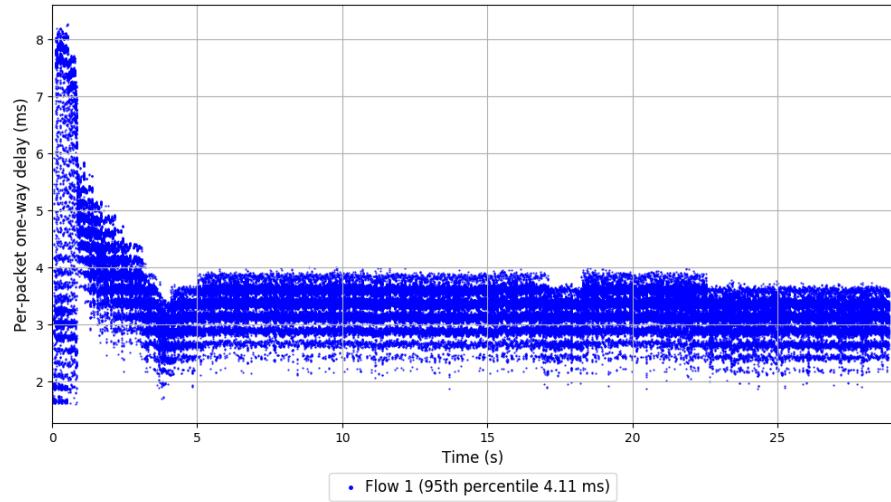
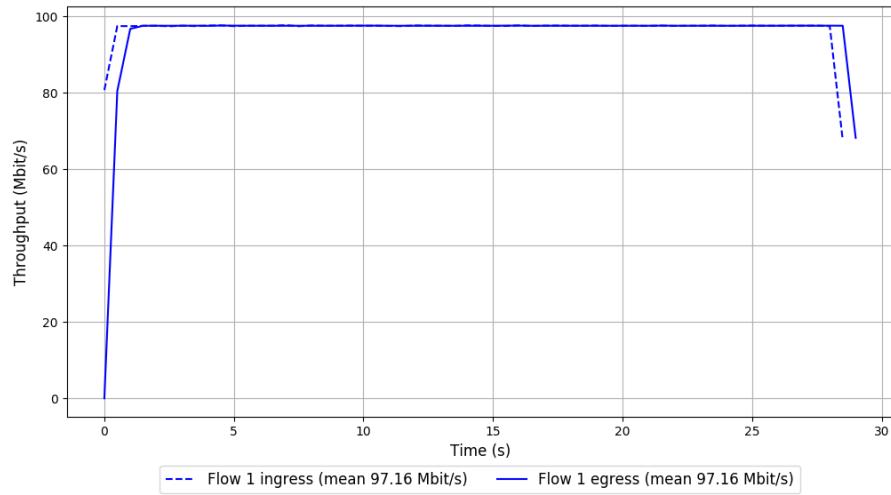


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-11-23 23:57:25
End at: 2019-11-23 23:57:55
Local clock offset: -11.041 ms
Remote clock offset: 0.24 ms

# Below is generated by plot.py at 2019-11-24 00:32:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 4.114 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 4.114 ms
Loss rate: 0.00%
```

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

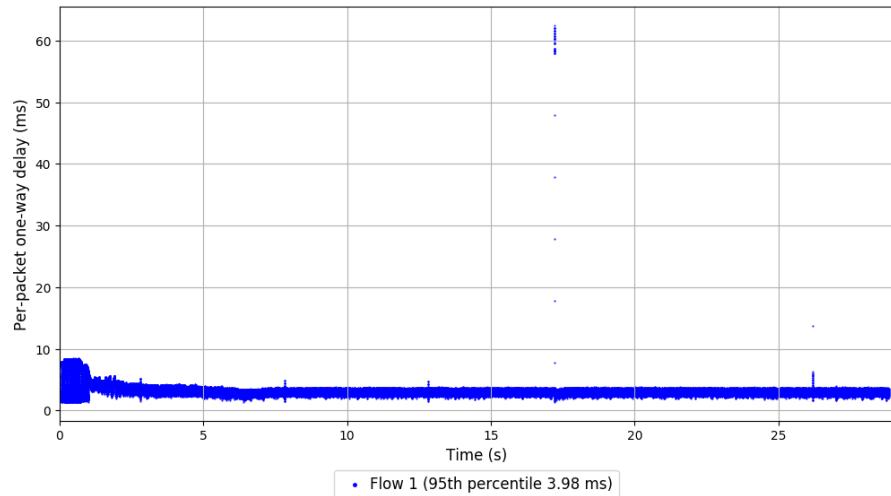
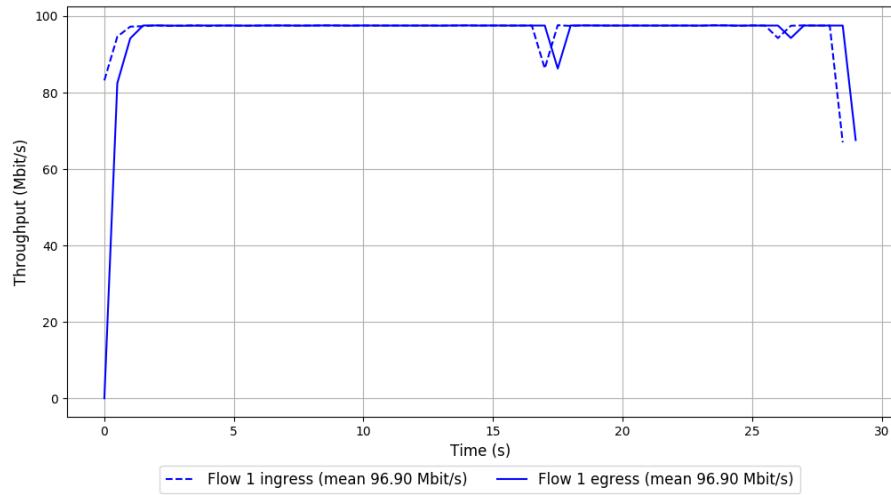


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-11-24 00:24:12
End at: 2019-11-24 00:24:42
Local clock offset: -9.105 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-11-24 00:32:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 3.975 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 3.975 ms
Loss rate: 0.00%
```

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

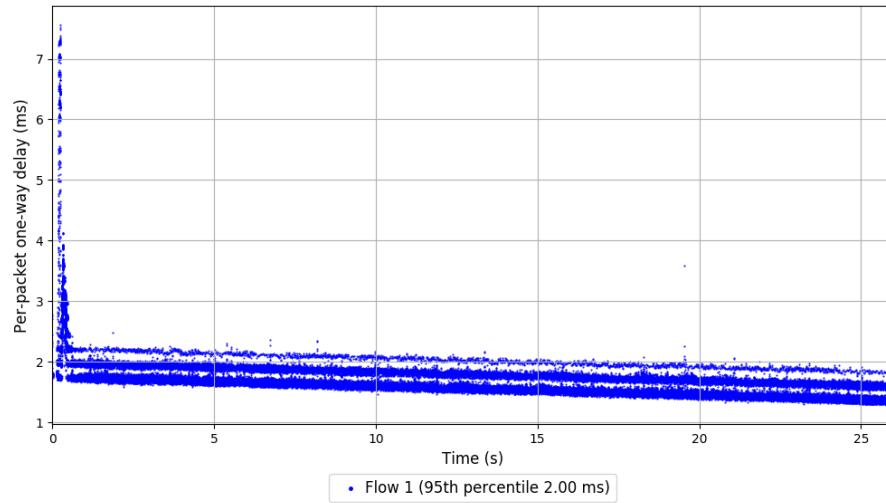
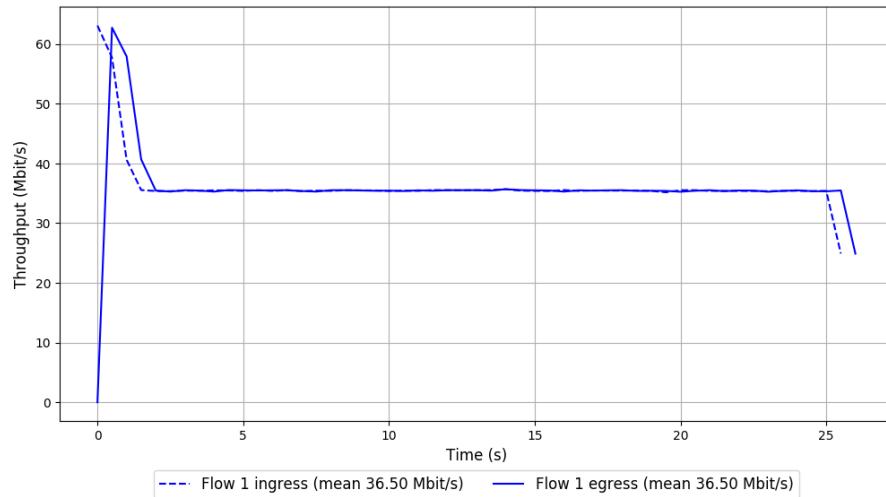


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-11-23 22:16:24
End at: 2019-11-23 22:16:54
Local clock offset: -8.329 ms
Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2019-11-24 00:32:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.50 Mbit/s
95th percentile per-packet one-way delay: 1.997 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.50 Mbit/s
95th percentile per-packet one-way delay: 1.997 ms
Loss rate: 0.00%
```

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

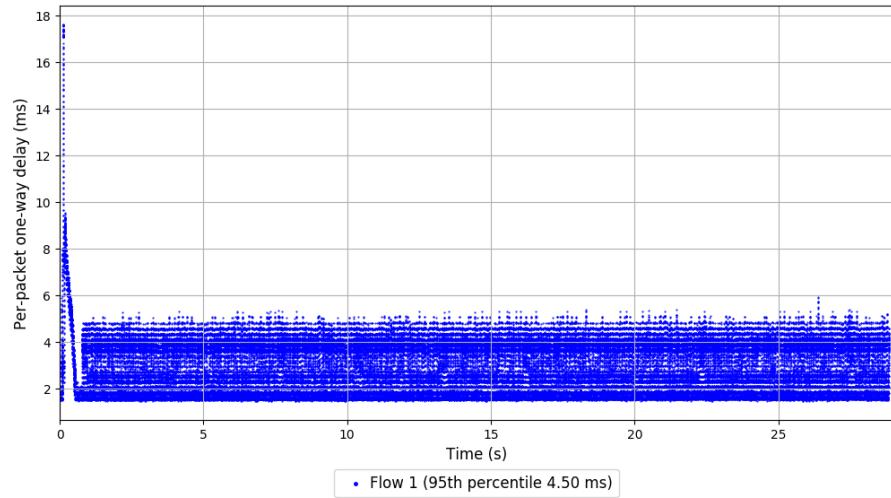
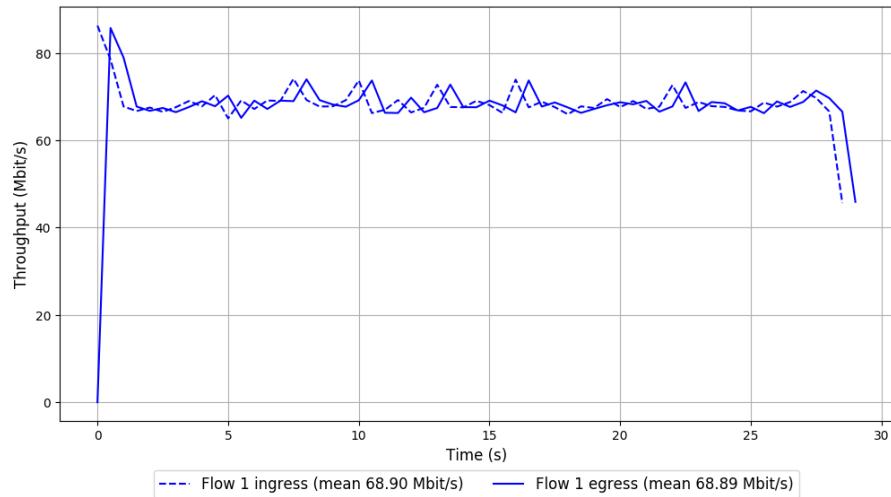


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-11-23 22:43:10
End at: 2019-11-23 22:43:40
Local clock offset: -13.311 ms
Remote clock offset: 0.41 ms

# Below is generated by plot.py at 2019-11-24 00:32:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 4.500 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 4.500 ms
Loss rate: 0.00%
```

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

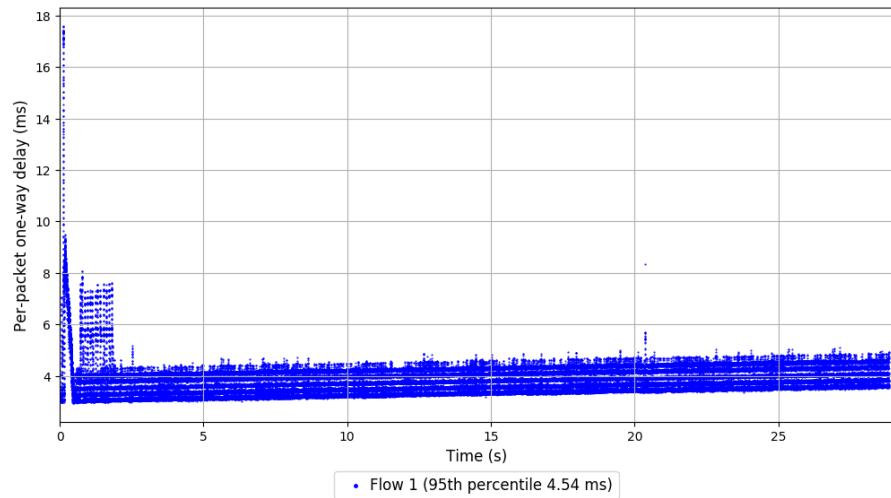
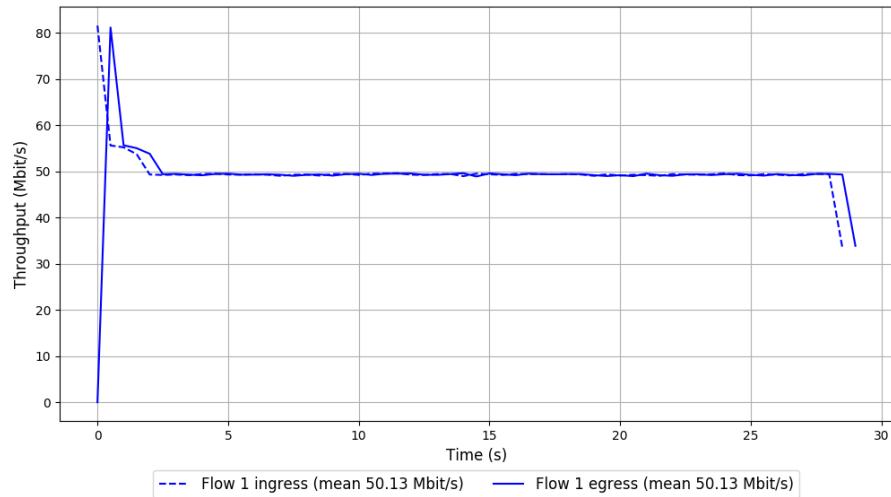


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-11-23 23:09:47
End at: 2019-11-23 23:10:17
Local clock offset: -20.674 ms
Remote clock offset: 0.732 ms

# Below is generated by plot.py at 2019-11-24 00:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.13 Mbit/s
95th percentile per-packet one-way delay: 4.537 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.13 Mbit/s
95th percentile per-packet one-way delay: 4.537 ms
Loss rate: 0.01%
```

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

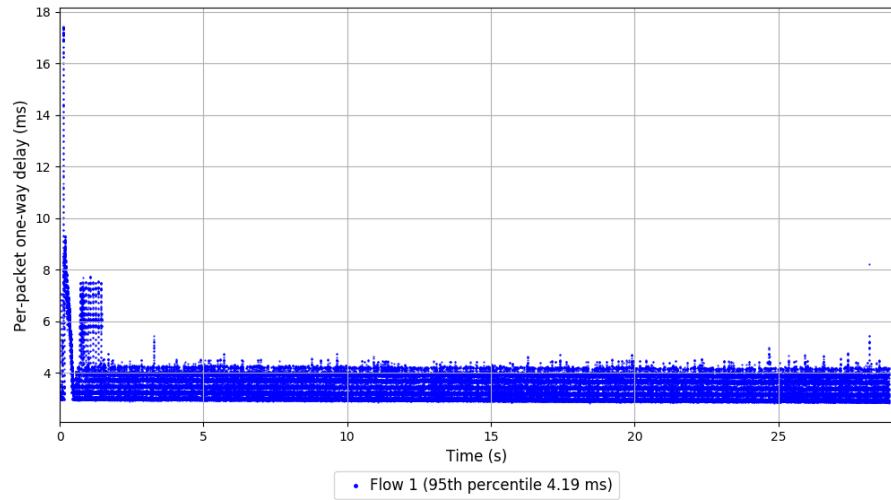
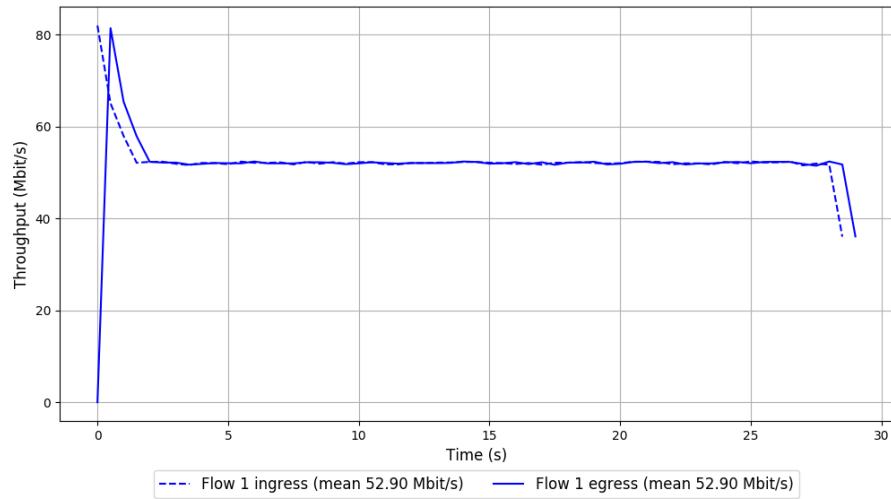


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-11-23 23:36:26
End at: 2019-11-23 23:36:56
Local clock offset: -15.705 ms
Remote clock offset: 0.479 ms

# Below is generated by plot.py at 2019-11-24 00:32:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.90 Mbit/s
95th percentile per-packet one-way delay: 4.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.90 Mbit/s
95th percentile per-packet one-way delay: 4.193 ms
Loss rate: 0.00%
```

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

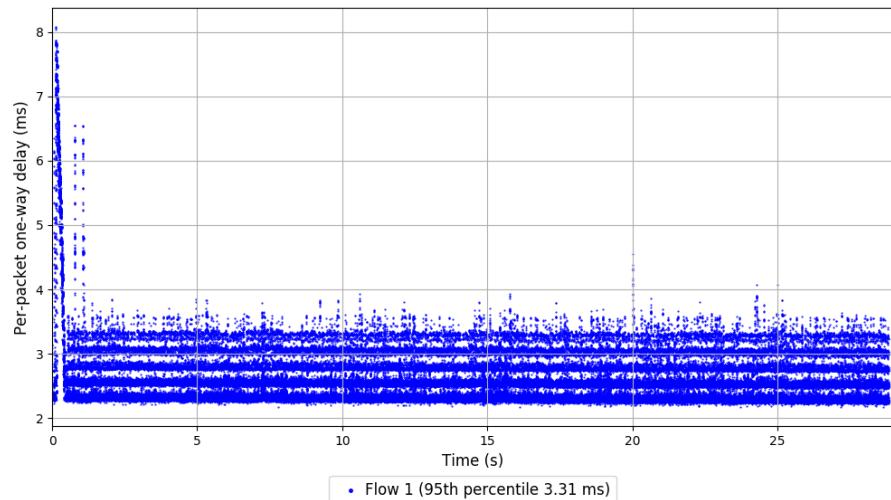
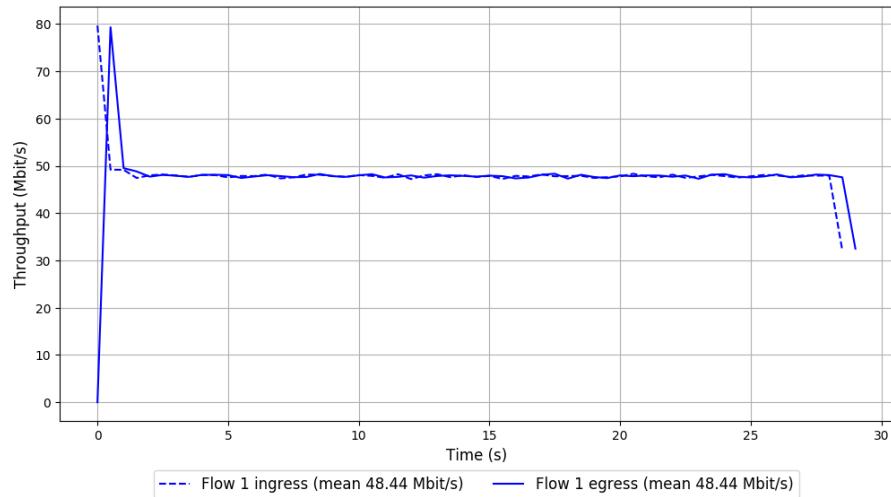


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-11-24 00:03:02
End at: 2019-11-24 00:03:32
Local clock offset: -10.522 ms
Remote clock offset: 0.14 ms

# Below is generated by plot.py at 2019-11-24 00:32:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.44 Mbit/s
95th percentile per-packet one-way delay: 3.305 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.44 Mbit/s
95th percentile per-packet one-way delay: 3.305 ms
Loss rate: 0.00%
```

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

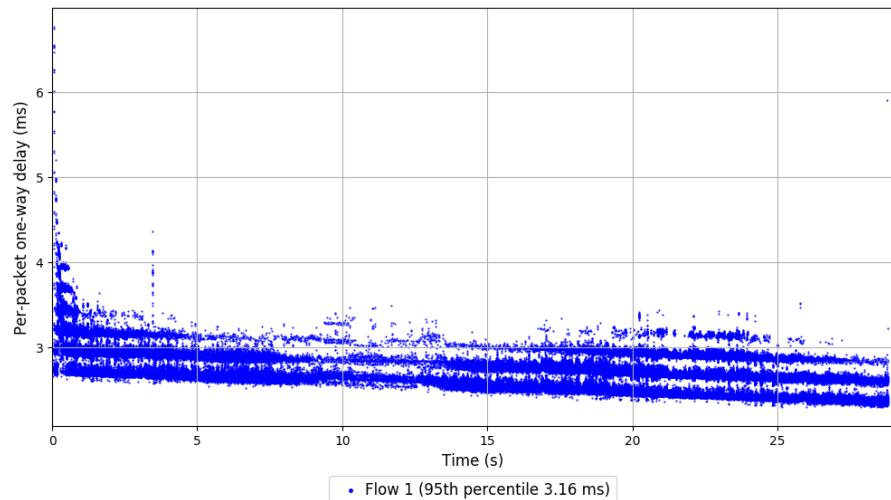
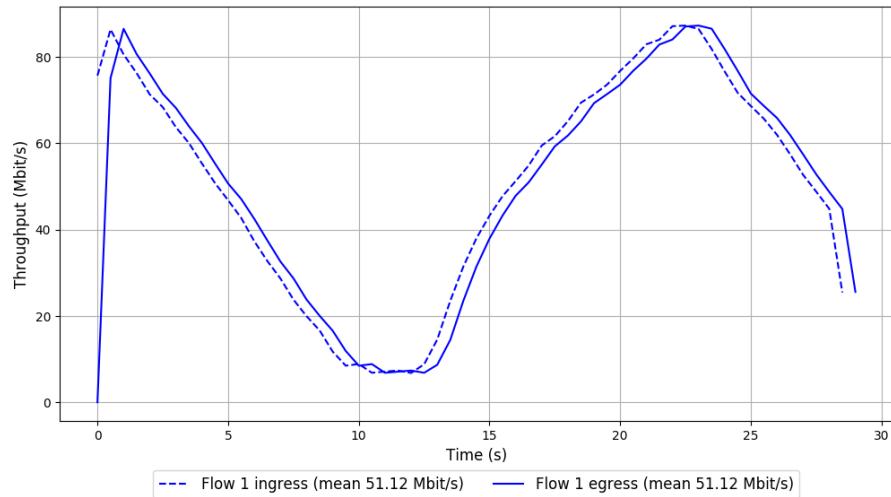


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-11-23 22:25:17
End at: 2019-11-23 22:25:47
Local clock offset: -11.958 ms
Remote clock offset: 0.186 ms

# Below is generated by plot.py at 2019-11-24 00:32:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.12 Mbit/s
95th percentile per-packet one-way delay: 3.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.12 Mbit/s
95th percentile per-packet one-way delay: 3.162 ms
Loss rate: 0.00%
```

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

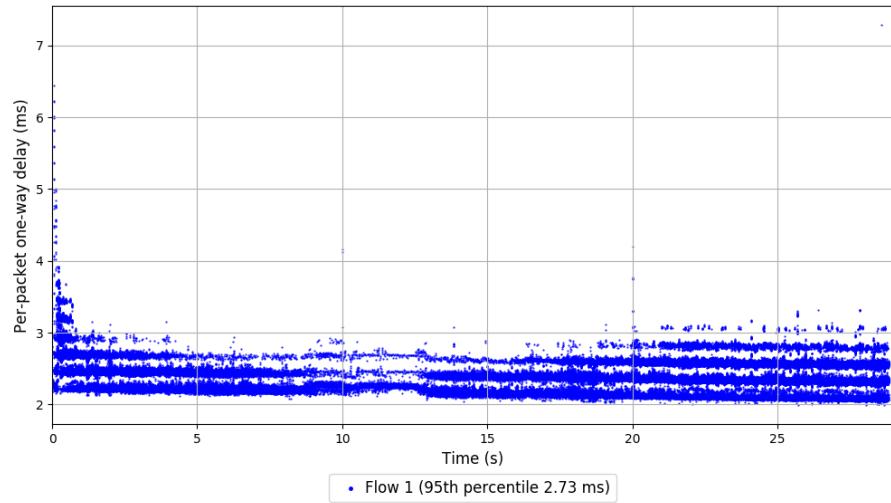
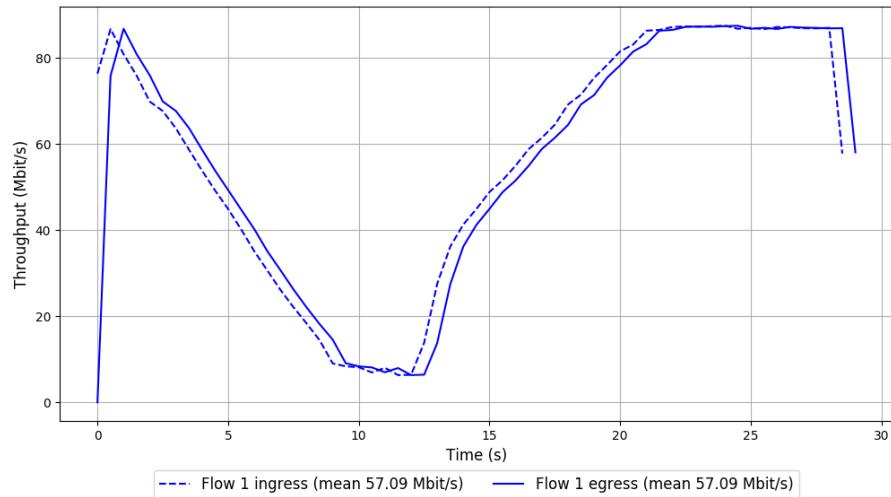


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-11-23 22:52:02
End at: 2019-11-23 22:52:32
Local clock offset: -13.634 ms
Remote clock offset: 0.551 ms

# Below is generated by plot.py at 2019-11-24 00:32:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.09 Mbit/s
95th percentile per-packet one-way delay: 2.733 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 57.09 Mbit/s
95th percentile per-packet one-way delay: 2.733 ms
Loss rate: 0.01%
```

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

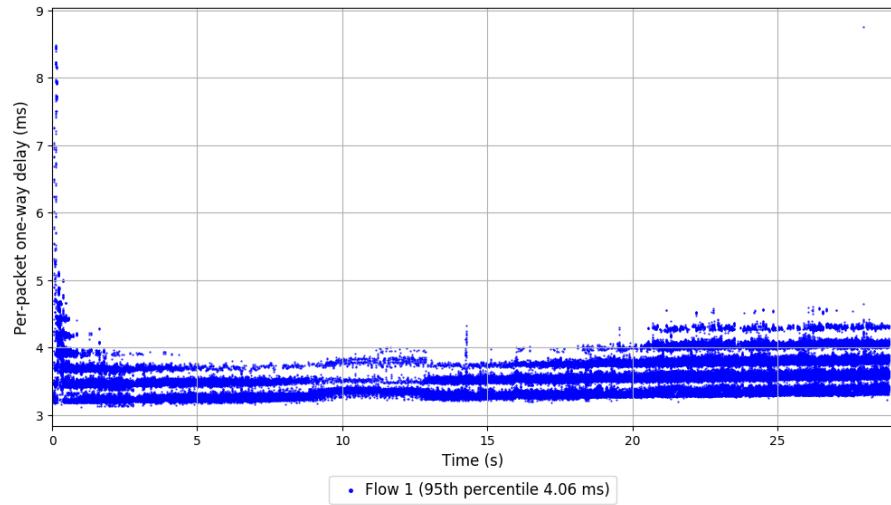
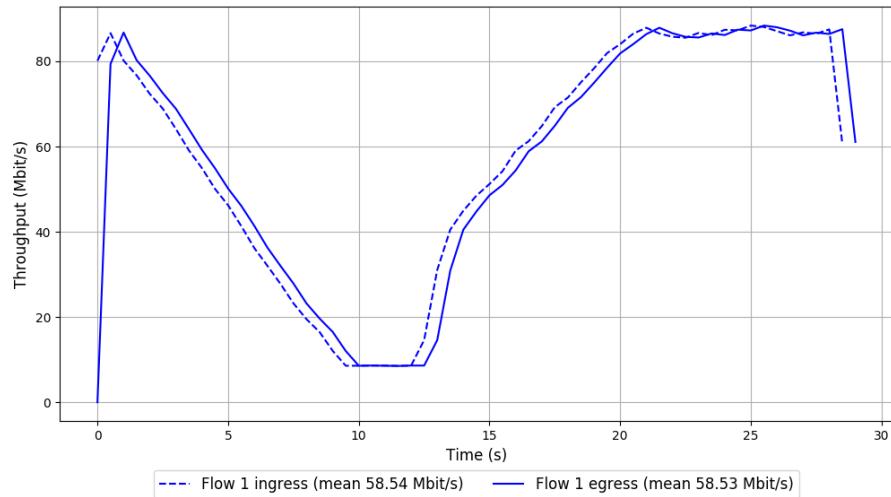


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-11-23 23:18:40
End at: 2019-11-23 23:19:10
Local clock offset: -14.913 ms
Remote clock offset: 0.644 ms

# Below is generated by plot.py at 2019-11-24 00:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.53 Mbit/s
95th percentile per-packet one-way delay: 4.058 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 58.53 Mbit/s
95th percentile per-packet one-way delay: 4.058 ms
Loss rate: 0.01%
```

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

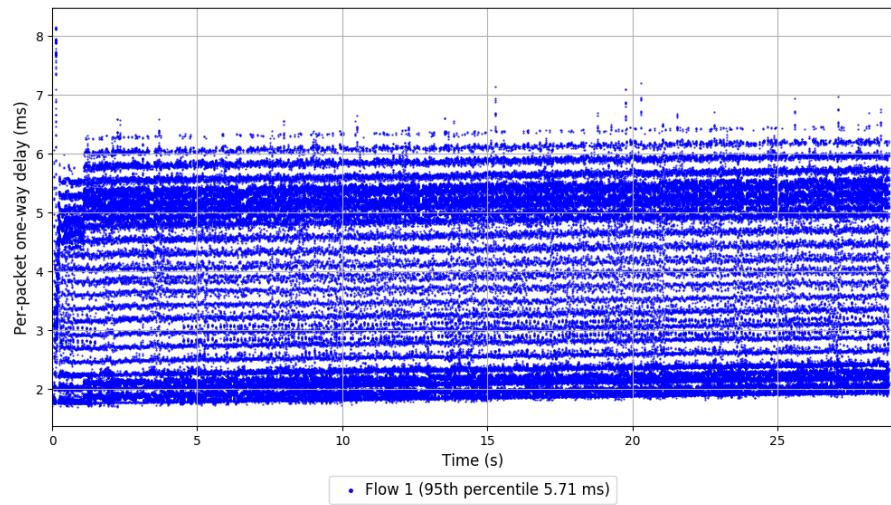
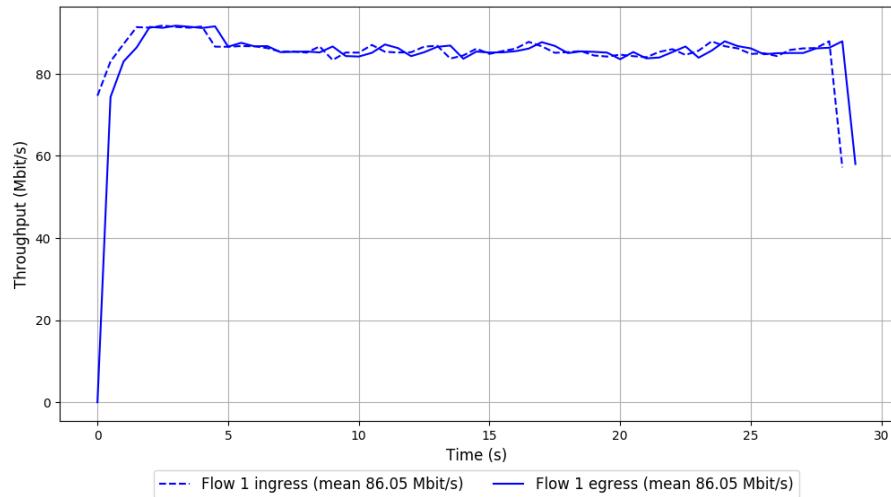


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-11-23 23:45:17
End at: 2019-11-23 23:45:47
Local clock offset: -12.789 ms
Remote clock offset: 0.394 ms

# Below is generated by plot.py at 2019-11-24 00:33:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.05 Mbit/s
95th percentile per-packet one-way delay: 5.705 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.05 Mbit/s
95th percentile per-packet one-way delay: 5.705 ms
Loss rate: 0.00%
```

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

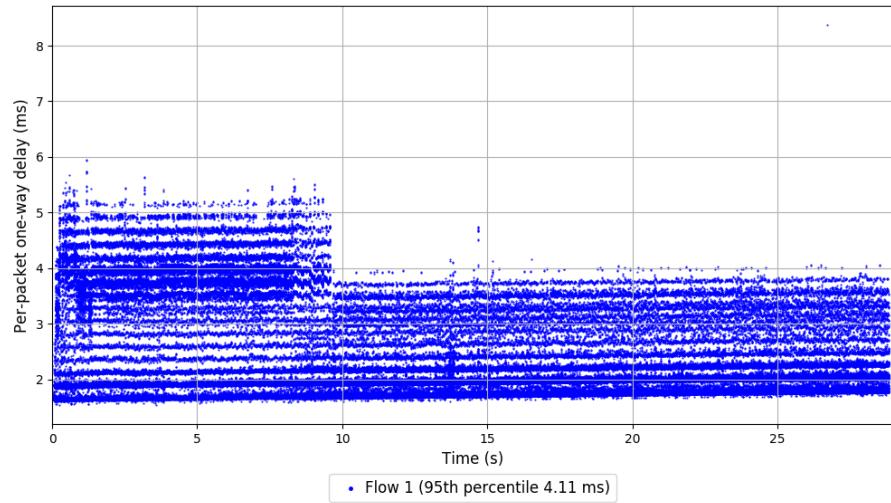
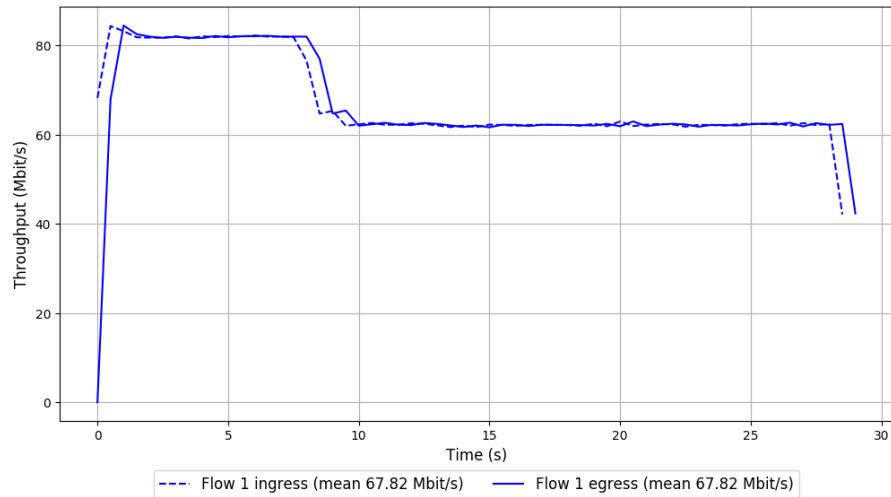


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-11-24 00:11:59
End at: 2019-11-24 00:12:29
Local clock offset: -10.906 ms
Remote clock offset: 0.086 ms

# Below is generated by plot.py at 2019-11-24 00:33:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.82 Mbit/s
95th percentile per-packet one-way delay: 4.114 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.82 Mbit/s
95th percentile per-packet one-way delay: 4.114 ms
Loss rate: 0.00%
```

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

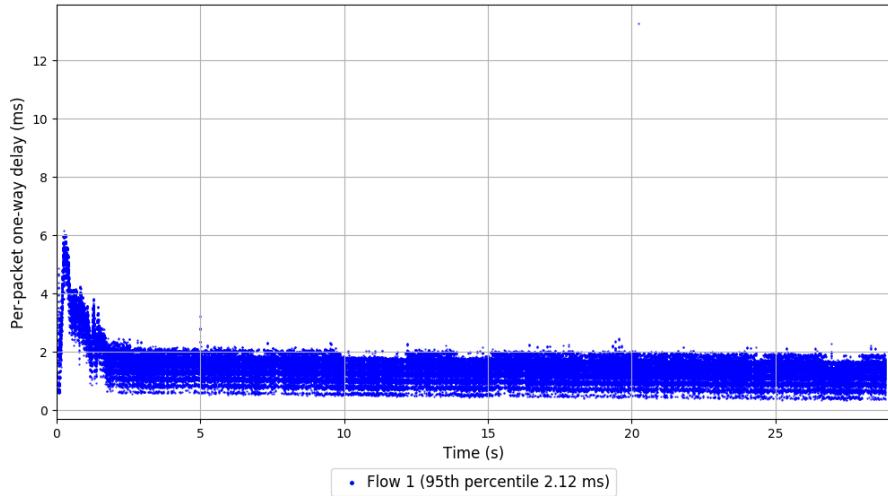
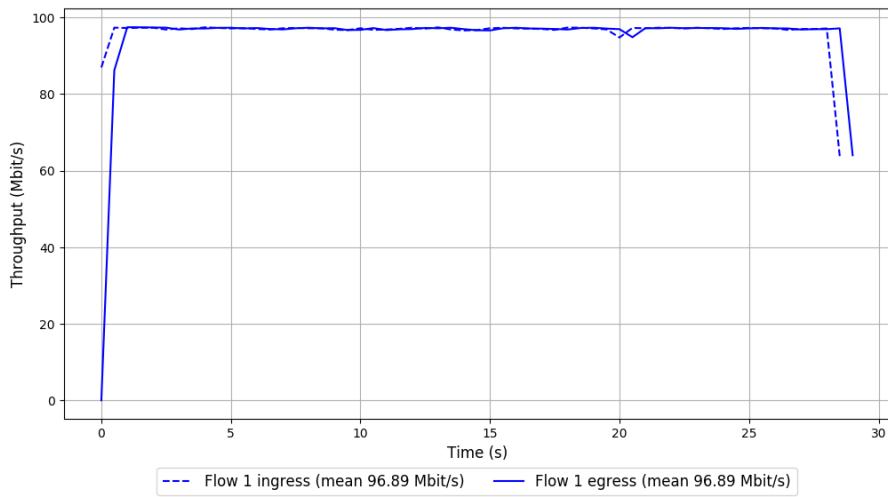


```
Run 1: Statistics of Indigo-MusesT
```

```
Start at: 2019-11-23 22:38:35
End at: 2019-11-23 22:39:05
Local clock offset: -12.936 ms
Remote clock offset: 0.423 ms

# Below is generated by plot.py at 2019-11-24 00:33:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 2.116 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 2.116 ms
Loss rate: 0.00%
```

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

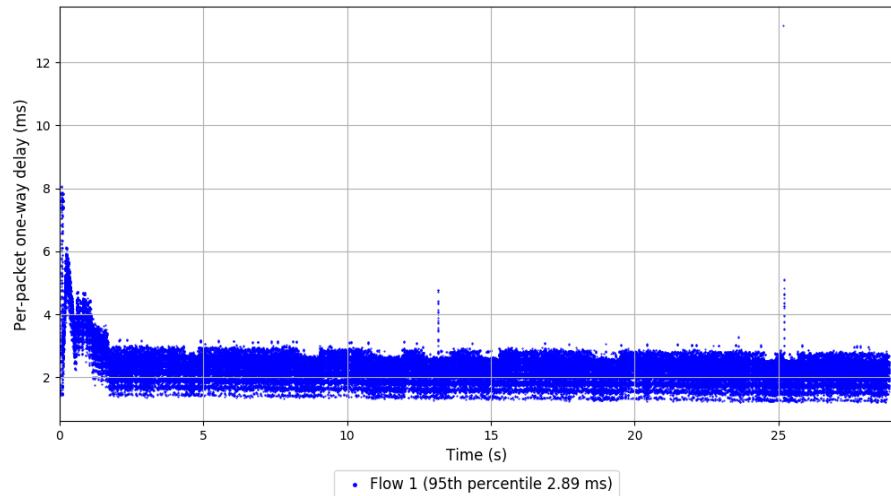
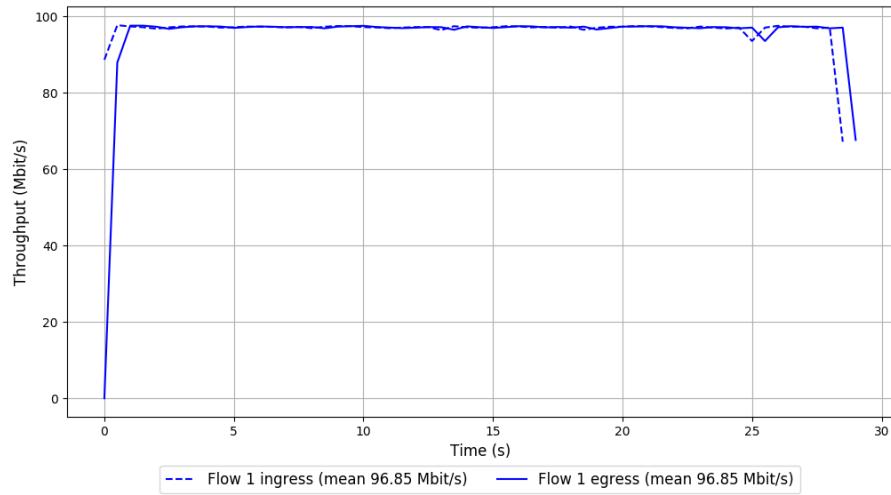


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-11-23 23:05:17
End at: 2019-11-23 23:05:47
Local clock offset: -19.612 ms
Remote clock offset: 0.726 ms

# Below is generated by plot.py at 2019-11-24 00:33:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 2.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 2.892 ms
Loss rate: 0.00%
```

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

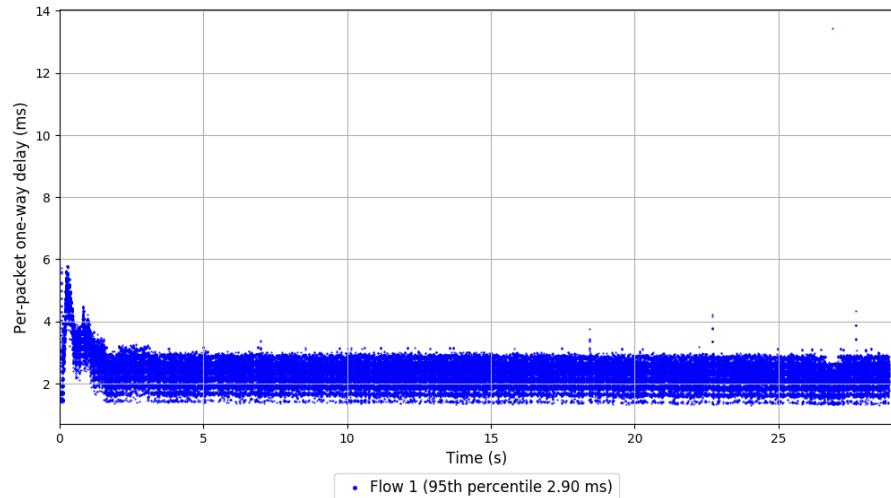
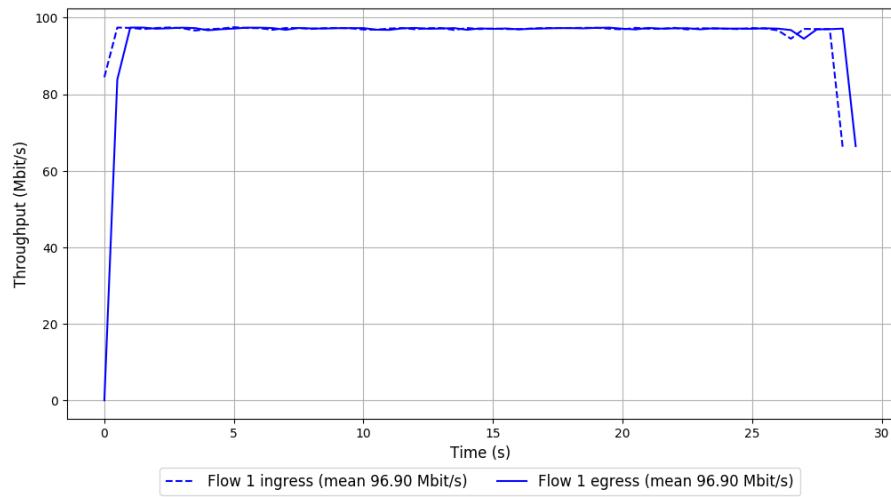


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-11-23 23:31:55
End at: 2019-11-23 23:32:25
Local clock offset: -14.834 ms
Remote clock offset: 0.513 ms

# Below is generated by plot.py at 2019-11-24 00:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 2.902 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 2.902 ms
Loss rate: 0.00%
```

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

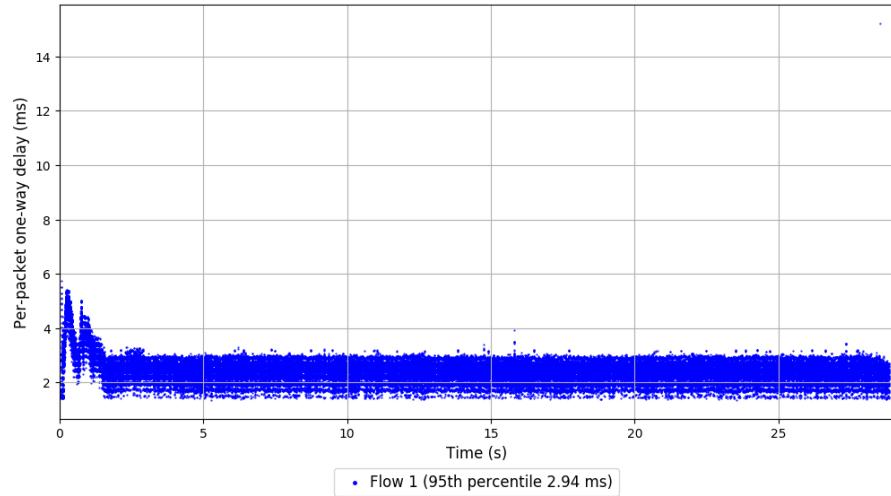
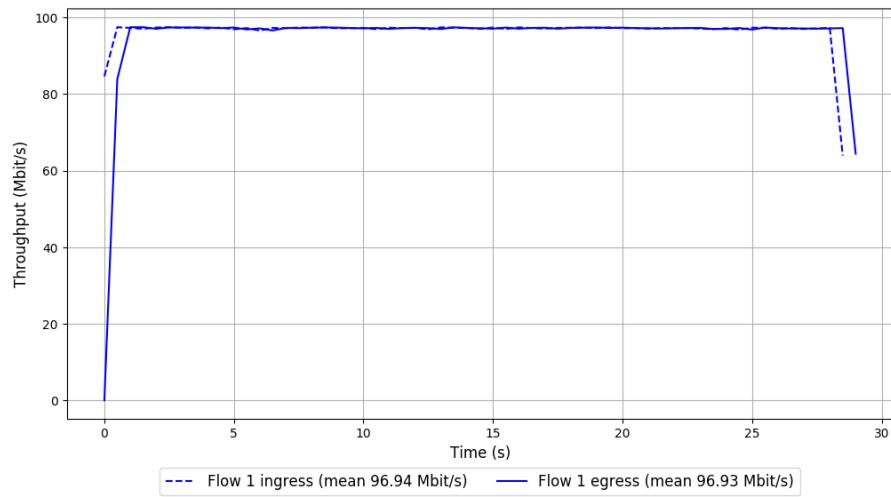


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-11-23 23:58:32
End at: 2019-11-23 23:59:02
Local clock offset: -10.996 ms
Remote clock offset: 0.131 ms

# Below is generated by plot.py at 2019-11-24 00:33:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 2.943 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 2.943 ms
Loss rate: 0.00%
```

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

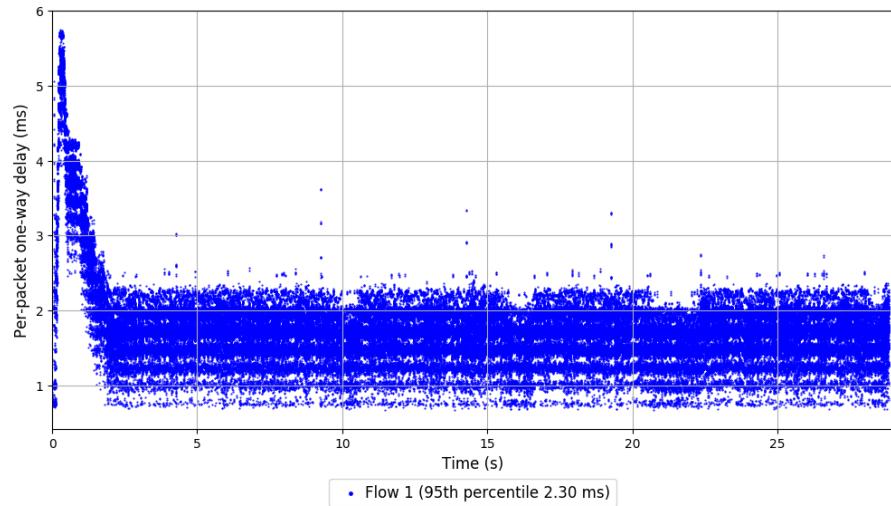
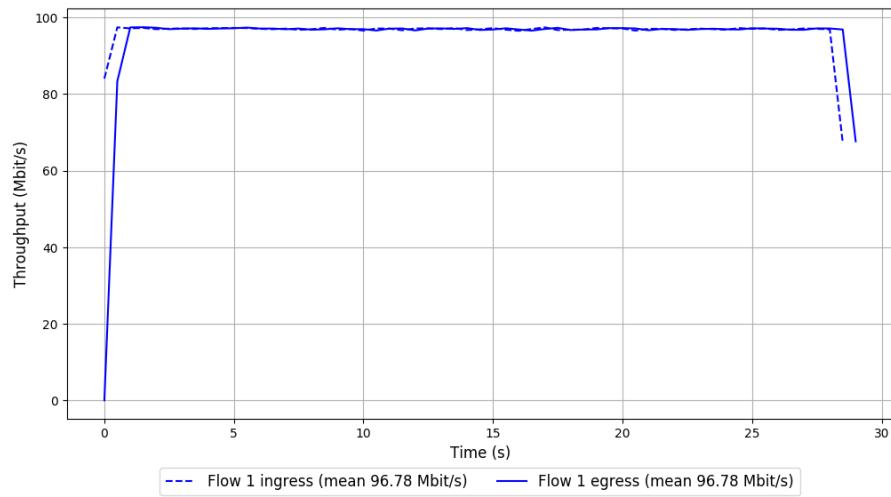


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-11-24 00:25:20
End at: 2019-11-24 00:25:50
Local clock offset: -8.329 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-11-24 00:34:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.78 Mbit/s
95th percentile per-packet one-way delay: 2.301 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.78 Mbit/s
95th percentile per-packet one-way delay: 2.301 ms
Loss rate: 0.00%
```

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

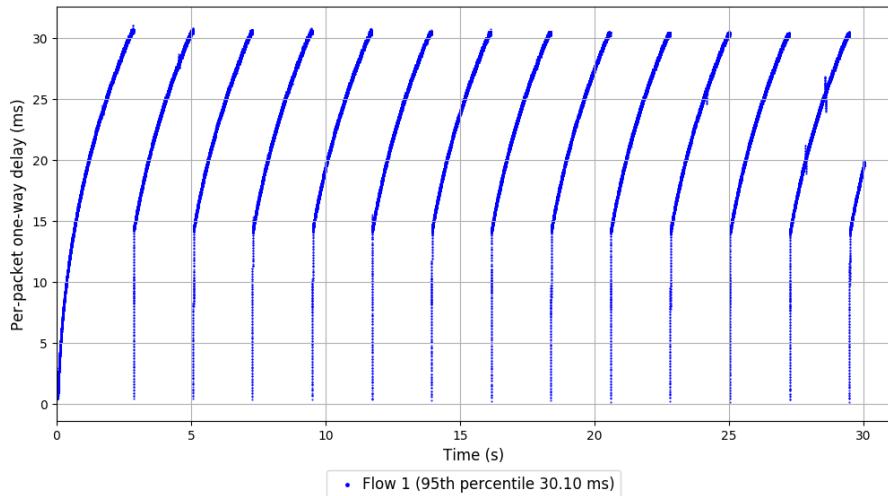
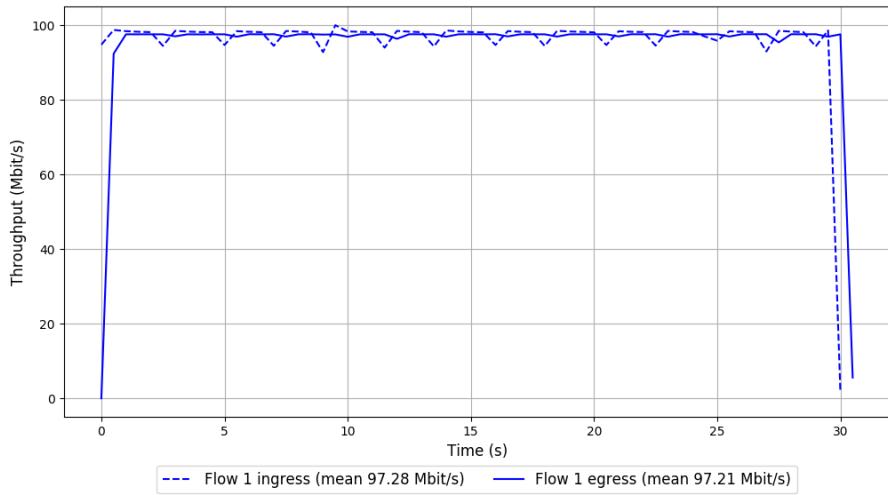


Run 1: Statistics of LEDBAT

```
Start at: 2019-11-23 22:24:08
End at: 2019-11-23 22:24:38
Local clock offset: -10.553 ms
Remote clock offset: 0.09 ms

# Below is generated by plot.py at 2019-11-24 00:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.21 Mbit/s
95th percentile per-packet one-way delay: 30.096 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.21 Mbit/s
95th percentile per-packet one-way delay: 30.096 ms
Loss rate: 0.01%
```

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

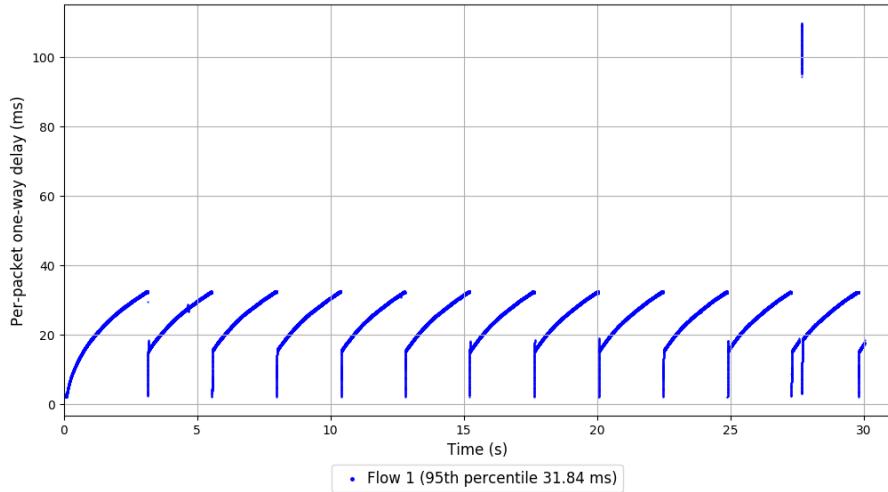
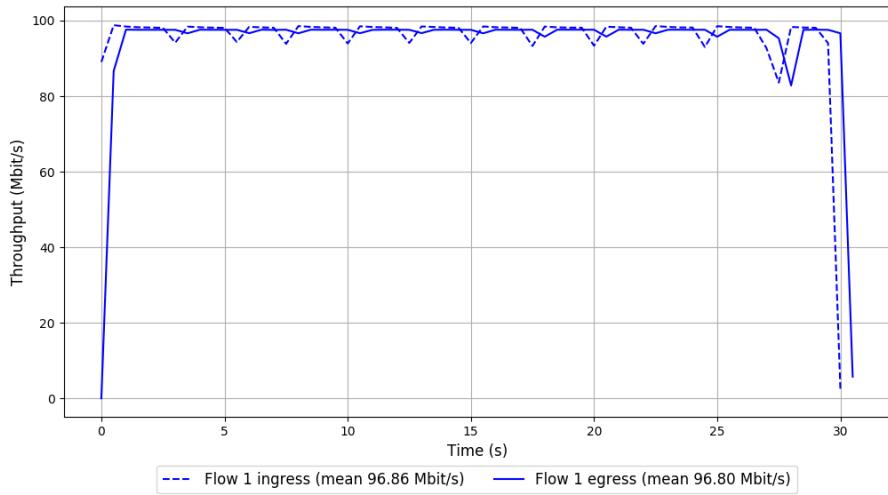


Run 2: Statistics of LEDBAT

```
Start at: 2019-11-23 22:50:53
End at: 2019-11-23 22:51:23
Local clock offset: -13.284 ms
Remote clock offset: 0.524 ms

# Below is generated by plot.py at 2019-11-24 00:34:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.80 Mbit/s
95th percentile per-packet one-way delay: 31.844 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.80 Mbit/s
95th percentile per-packet one-way delay: 31.844 ms
Loss rate: 0.01%
```

## Run 2: Report of LEDBAT — Data Link

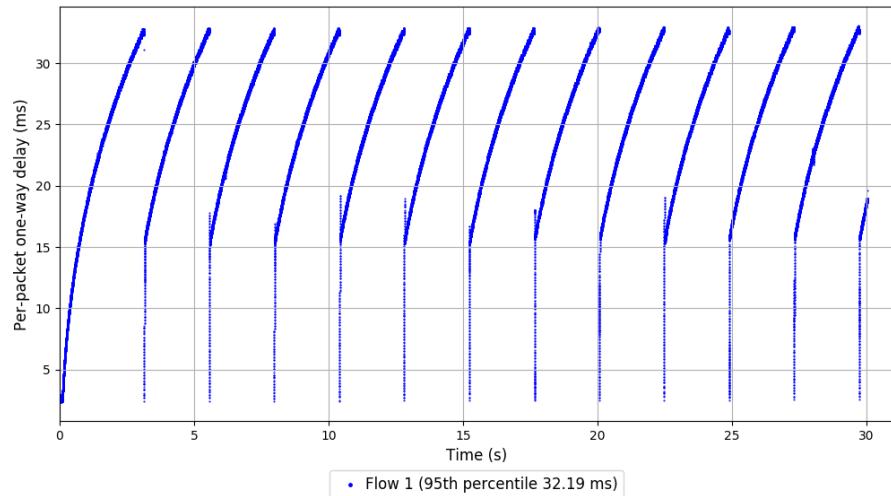
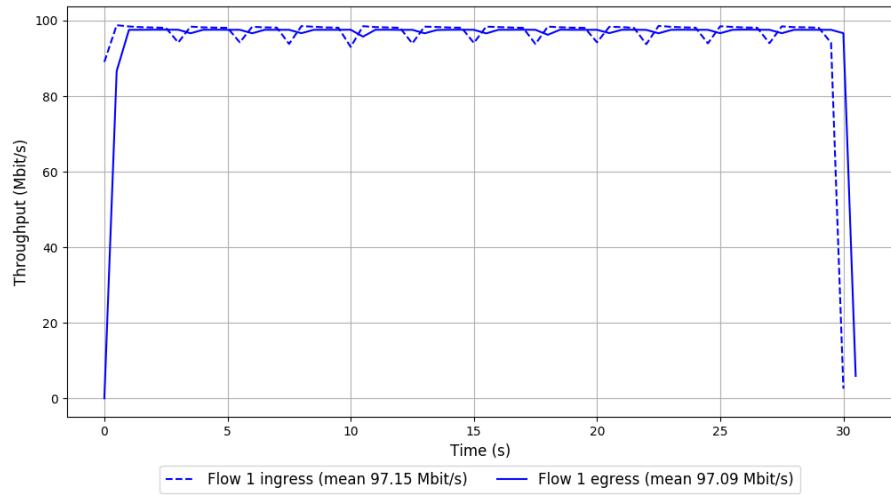


Run 3: Statistics of LEDBAT

```
Start at: 2019-11-23 23:17:31
End at: 2019-11-23 23:18:01
Local clock offset: -14.533 ms
Remote clock offset: 0.575 ms

# Below is generated by plot.py at 2019-11-24 00:34:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 32.189 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 32.189 ms
Loss rate: 0.01%
```

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

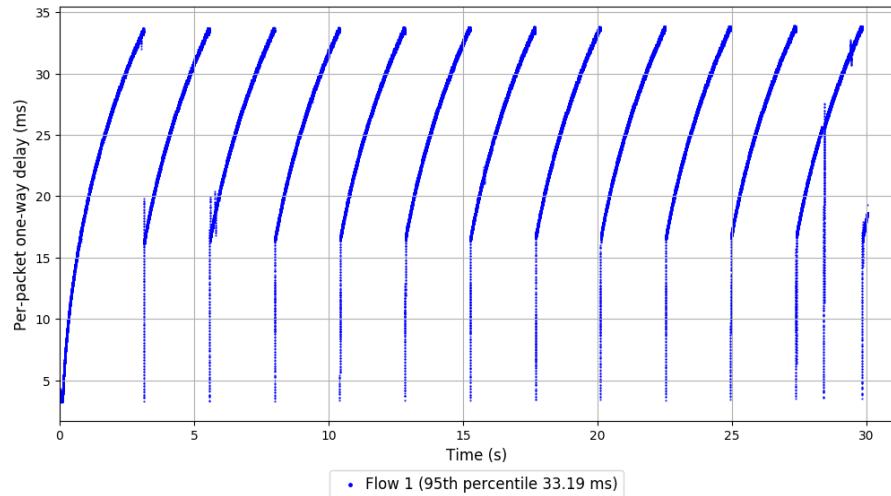
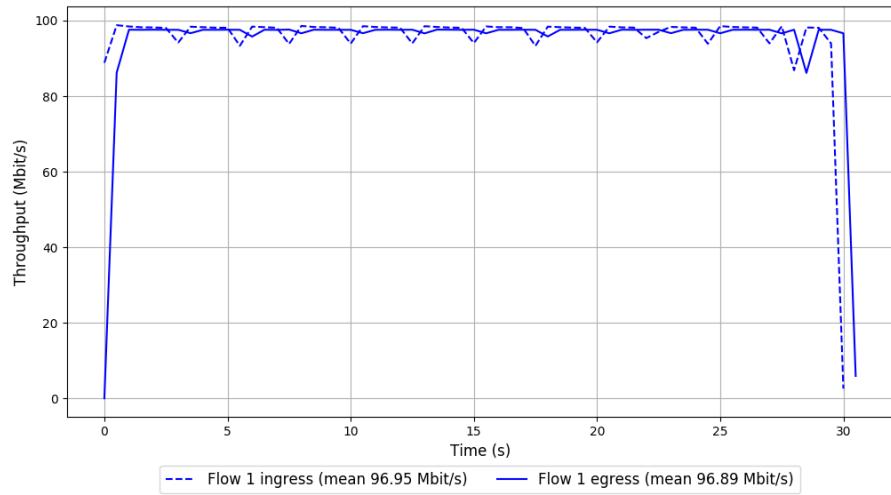


Run 4: Statistics of LEDBAT

```
Start at: 2019-11-23 23:44:08
End at: 2019-11-23 23:44:38
Local clock offset: -13.324 ms
Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2019-11-24 00:34:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 33.187 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 33.187 ms
Loss rate: 0.01%
```

Run 4: Report of LEDBAT — Data Link

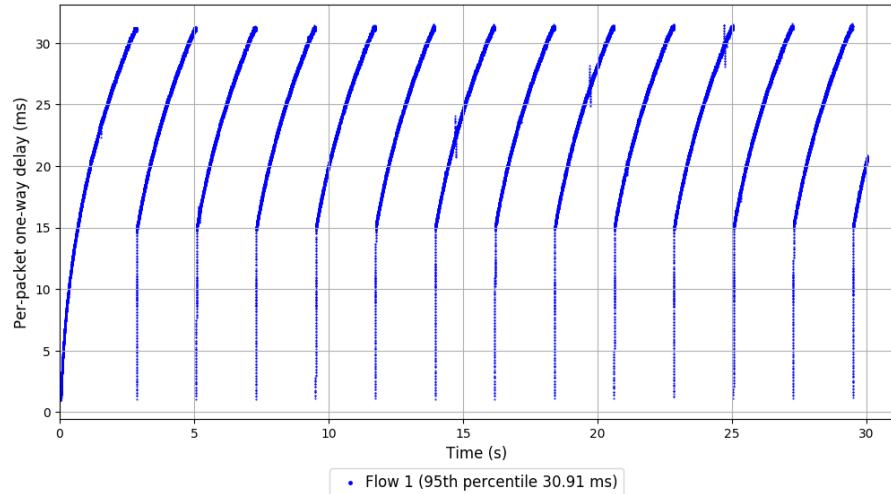
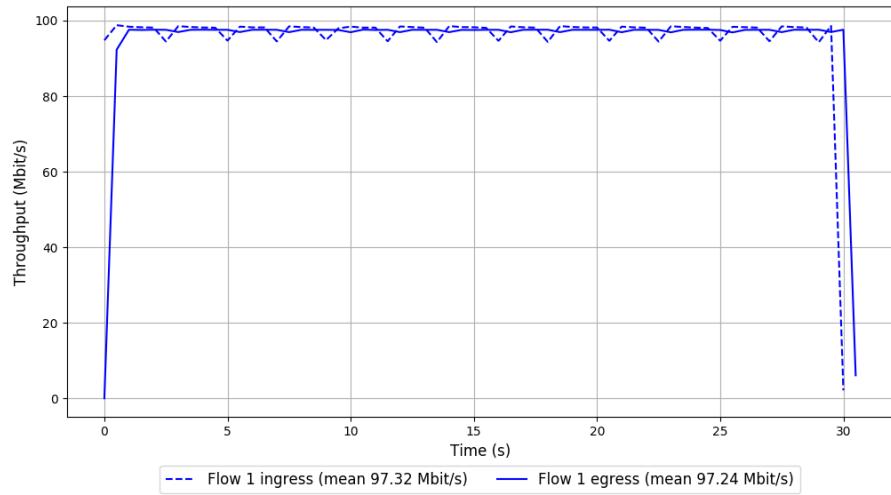


Run 5: Statistics of LEDBAT

```
Start at: 2019-11-24 00:10:50
End at: 2019-11-24 00:11:20
Local clock offset: -10.668 ms
Remote clock offset: 0.146 ms

# Below is generated by plot.py at 2019-11-24 00:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 30.914 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 30.914 ms
Loss rate: 0.01%
```

Run 5: Report of LEDBAT — Data Link

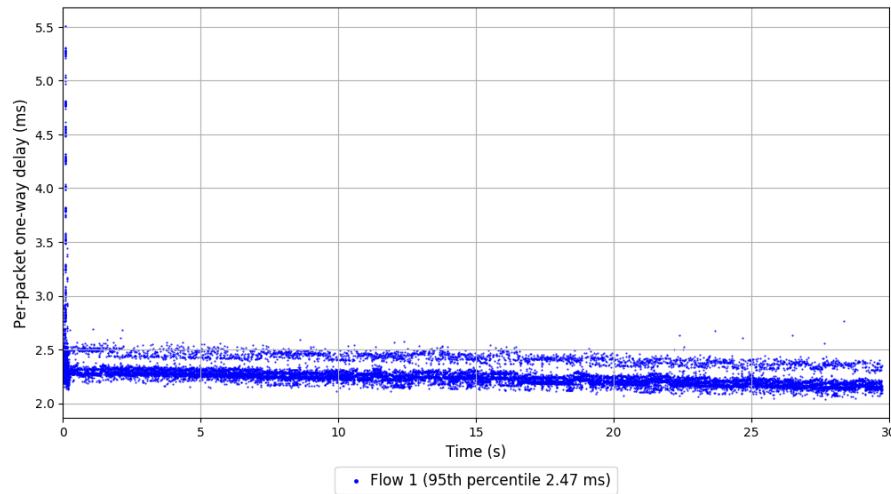
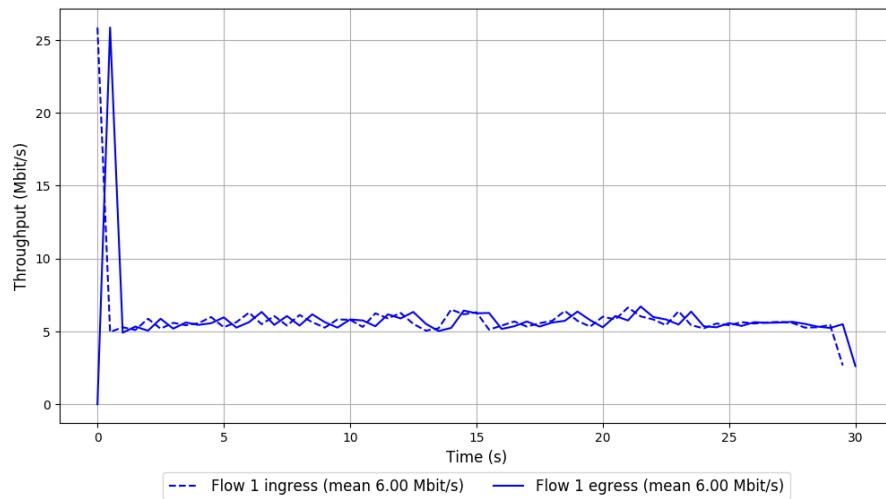


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-11-23 22:33:03
End at: 2019-11-23 22:33:33
Local clock offset: -10.812 ms
Remote clock offset: 0.316 ms

# Below is generated by plot.py at 2019-11-24 00:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 2.474 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 2.474 ms
Loss rate: 0.01%
```

Run 1: Report of Muses\_DecisionTree — Data Link

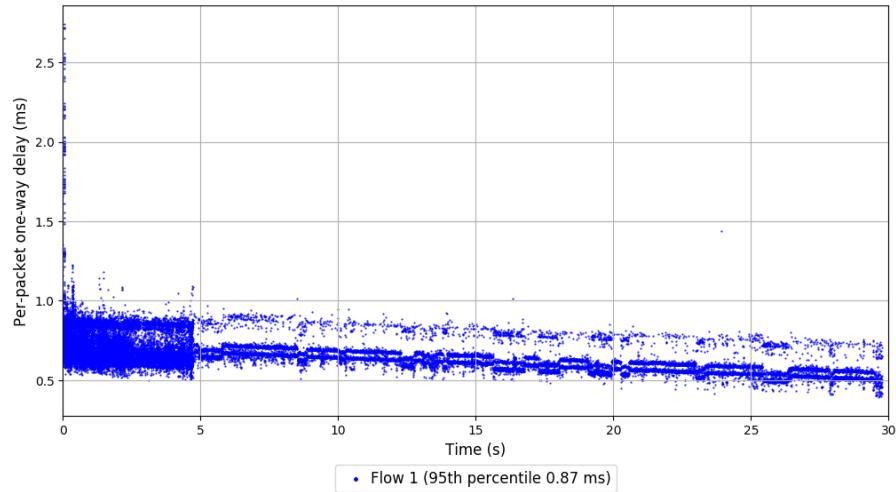
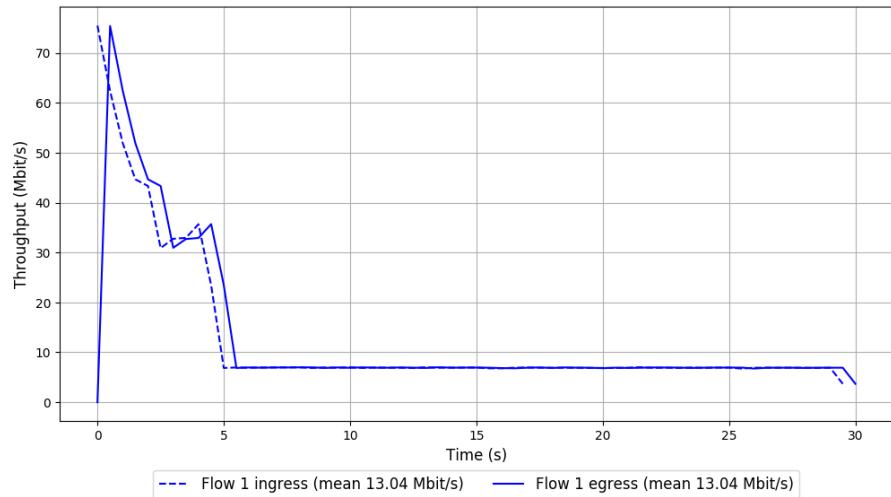


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-11-23 22:59:45
End at: 2019-11-23 23:00:15
Local clock offset: -16.342 ms
Remote clock offset: 0.703 ms

# Below is generated by plot.py at 2019-11-24 00:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 0.867 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 0.867 ms
Loss rate: 0.00%
```

Run 2: Report of Muses\_DecisionTree — Data Link

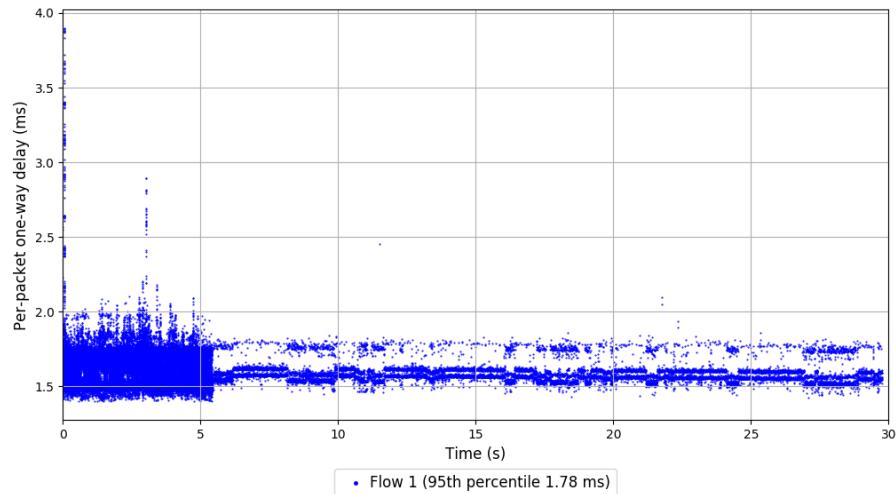
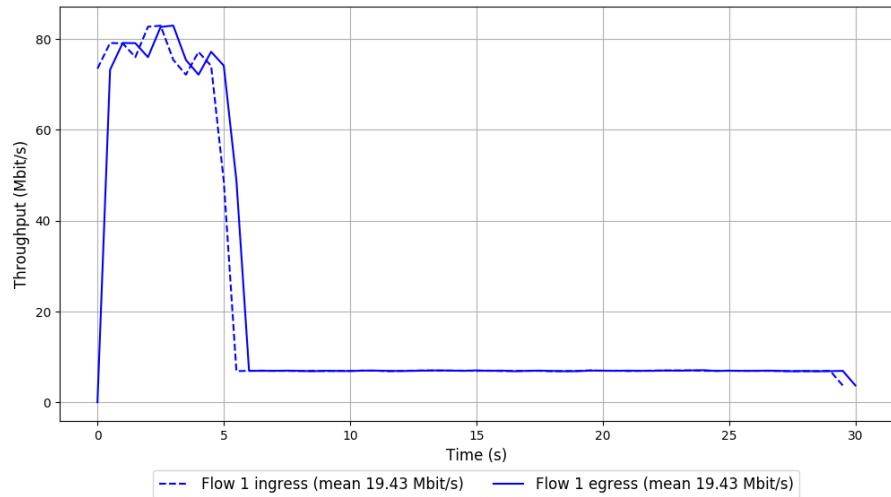


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-11-23 23:26:24
End at: 2019-11-23 23:26:54
Local clock offset: -14.207 ms
Remote clock offset: 0.578 ms

# Below is generated by plot.py at 2019-11-24 00:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.43 Mbit/s
95th percentile per-packet one-way delay: 1.781 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 19.43 Mbit/s
95th percentile per-packet one-way delay: 1.781 ms
Loss rate: 0.00%
```

### Run 3: Report of Muses\_DecisionTree — Data Link

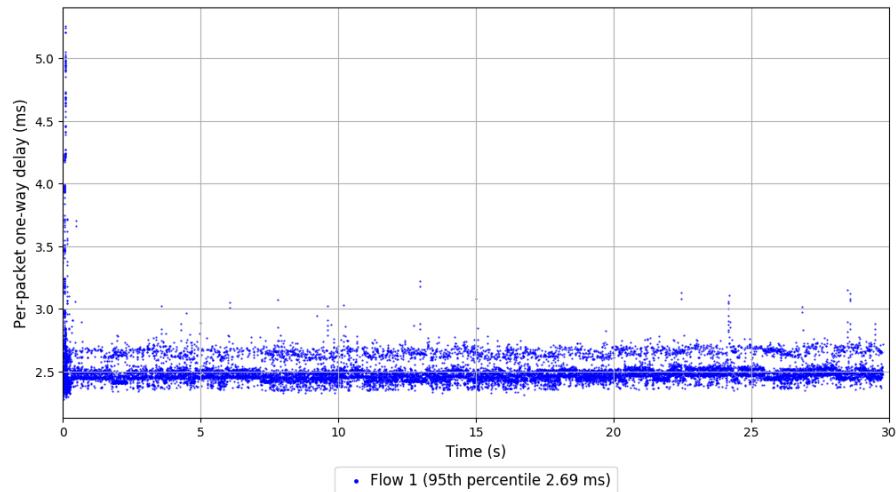
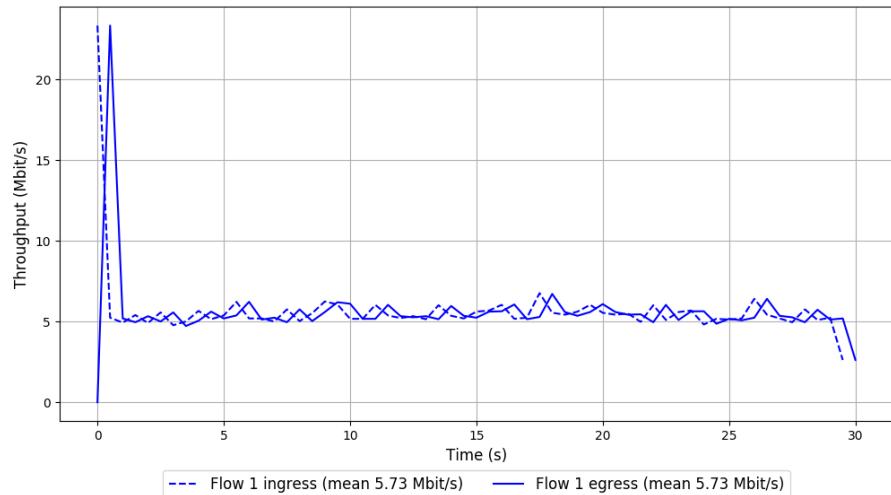


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-11-23 23:53:01
End at: 2019-11-23 23:53:31
Local clock offset: -10.308 ms
Remote clock offset: 0.26 ms

# Below is generated by plot.py at 2019-11-24 00:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.73 Mbit/s
95th percentile per-packet one-way delay: 2.692 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 5.73 Mbit/s
95th percentile per-packet one-way delay: 2.692 ms
Loss rate: 0.01%
```

Run 4: Report of Muses\_DecisionTree — Data Link

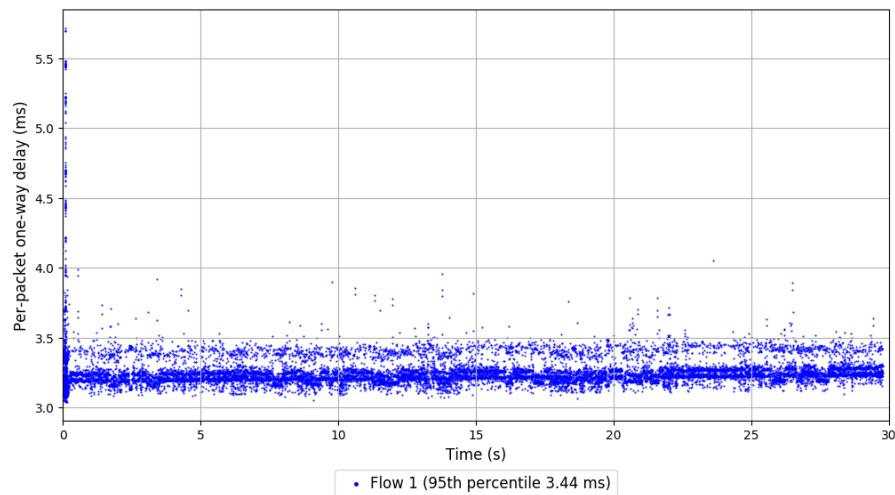
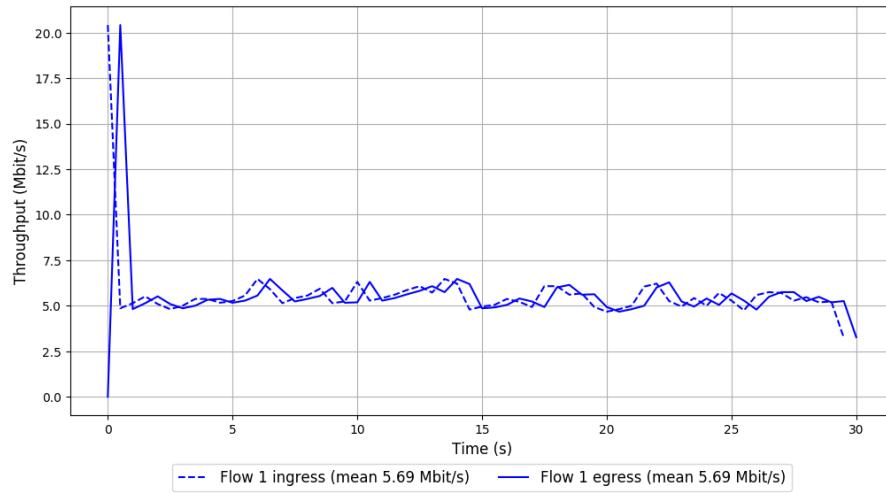


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 00:19:48
End at: 2019-11-24 00:20:18
Local clock offset: -9.342 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2019-11-24 00:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.69 Mbit/s
95th percentile per-packet one-way delay: 3.441 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.69 Mbit/s
95th percentile per-packet one-way delay: 3.441 ms
Loss rate: 0.00%
```

Run 5: Report of Muses\_DecisionTree — Data Link

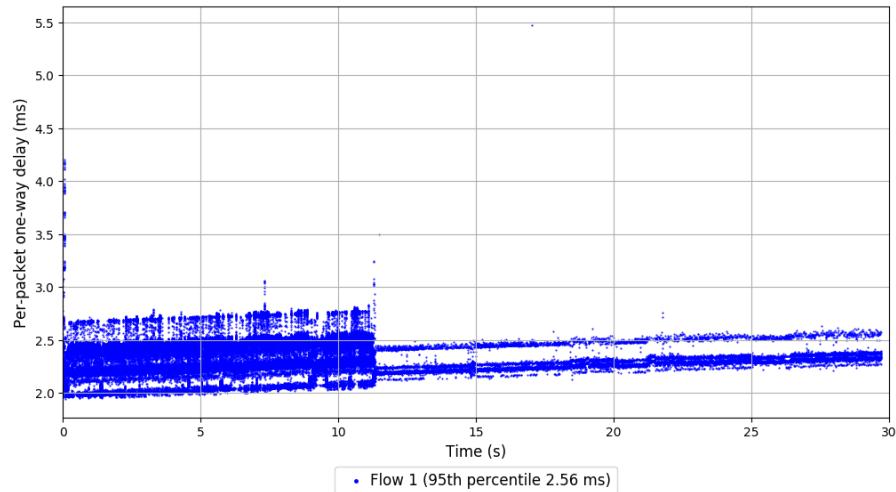
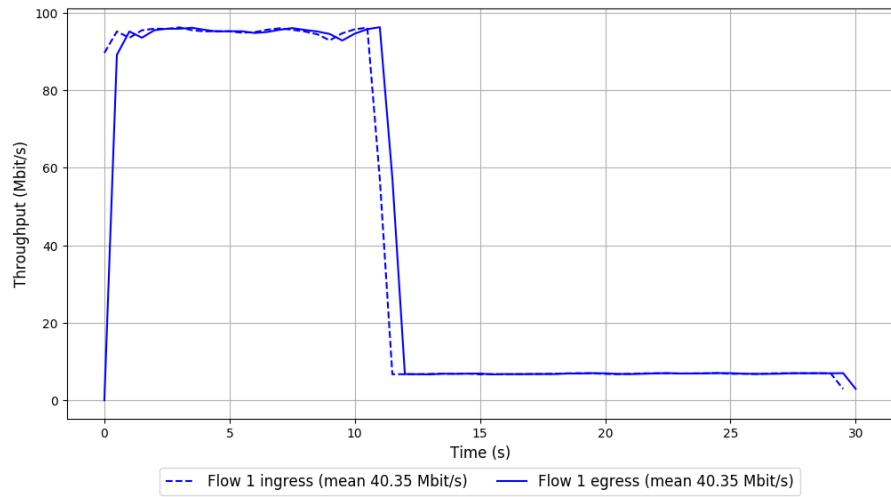


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-23 22:18:39
End at: 2019-11-23 22:19:09
Local clock offset: -10.496 ms
Remote clock offset: 0.148 ms

# Below is generated by plot.py at 2019-11-24 00:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.35 Mbit/s
95th percentile per-packet one-way delay: 2.558 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.35 Mbit/s
95th percentile per-packet one-way delay: 2.558 ms
Loss rate: 0.00%
```

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

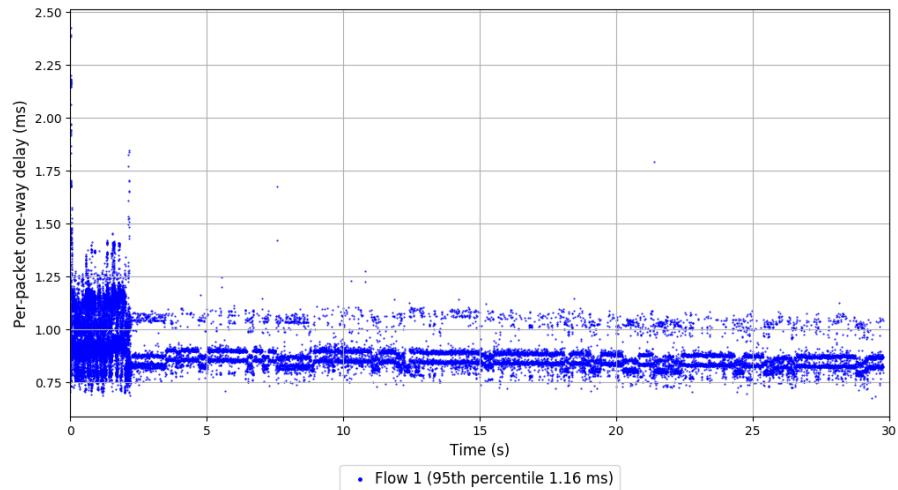
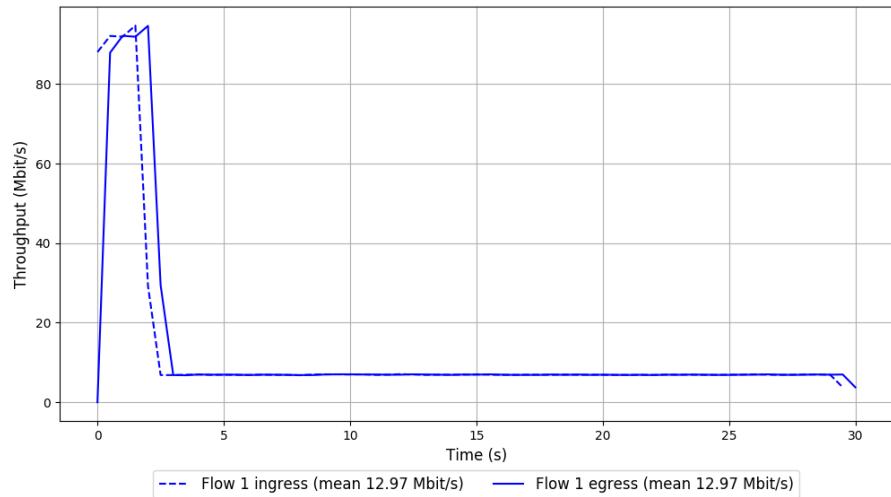


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-23 22:45:26
End at: 2019-11-23 22:45:56
Local clock offset: -12.47 ms
Remote clock offset: 0.499 ms

# Below is generated by plot.py at 2019-11-24 00:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 1.164 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 1.164 ms
Loss rate: 0.00%
```

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

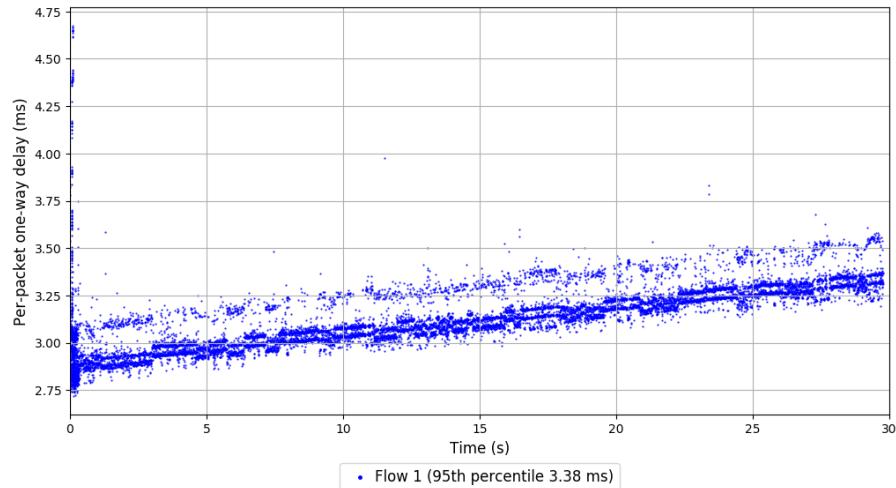
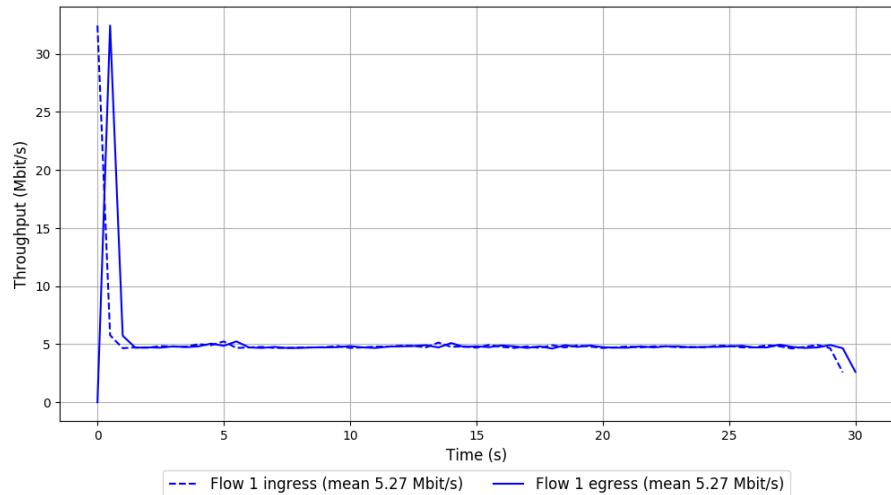


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-23 23:12:03
End at: 2019-11-23 23:12:33
Local clock offset: -18.01 ms
Remote clock offset: 0.793 ms

# Below is generated by plot.py at 2019-11-24 00:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.27 Mbit/s
95th percentile per-packet one-way delay: 3.375 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.27 Mbit/s
95th percentile per-packet one-way delay: 3.375 ms
Loss rate: 0.00%
```

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

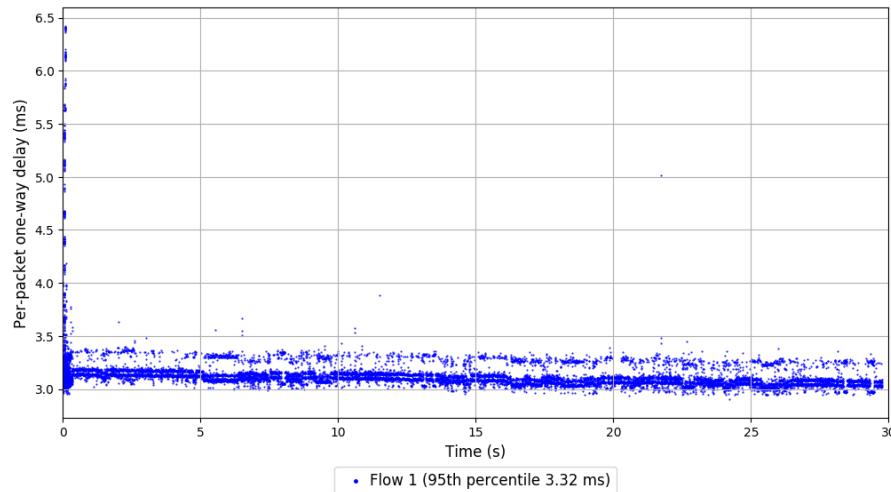
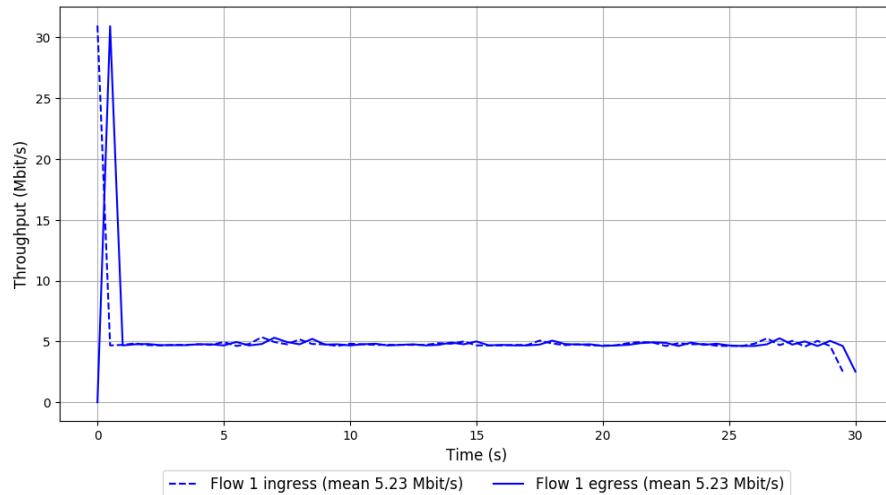


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-23 23:38:41
End at: 2019-11-23 23:39:11
Local clock offset: -16.279 ms
Remote clock offset: 0.462 ms

# Below is generated by plot.py at 2019-11-24 00:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 3.318 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 3.318 ms
Loss rate: 0.00%
```

Run 4: Report of Muses\_DecisionTreeH0 — Data Link

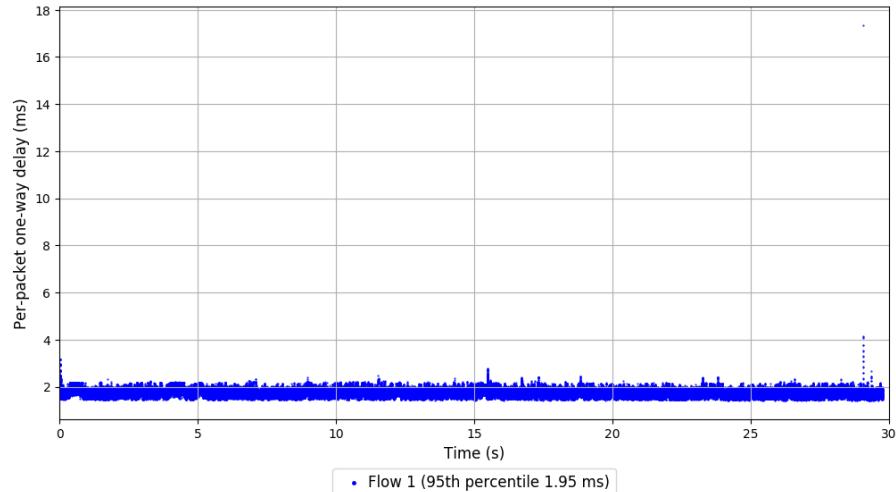
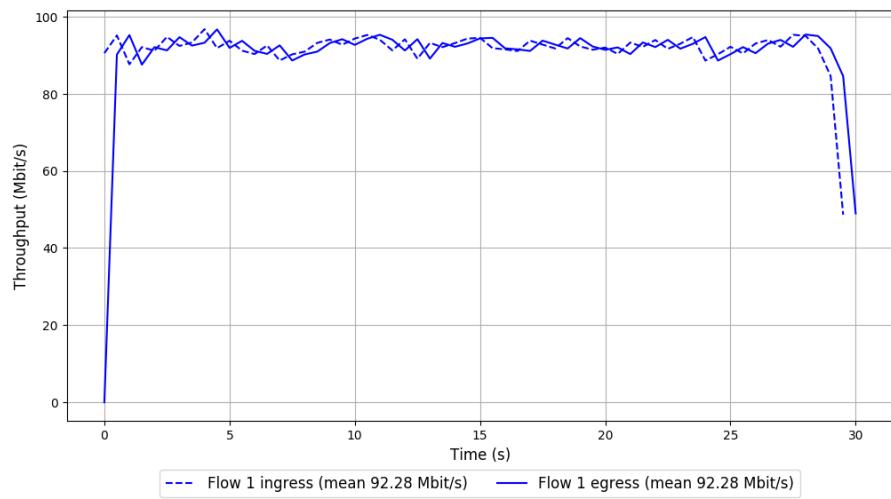


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 00:05:18
End at: 2019-11-24 00:05:48
Local clock offset: -11.467 ms
Remote clock offset: 0.189 ms

# Below is generated by plot.py at 2019-11-24 00:35:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.28 Mbit/s
95th percentile per-packet one-way delay: 1.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.28 Mbit/s
95th percentile per-packet one-way delay: 1.954 ms
Loss rate: 0.00%
```

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

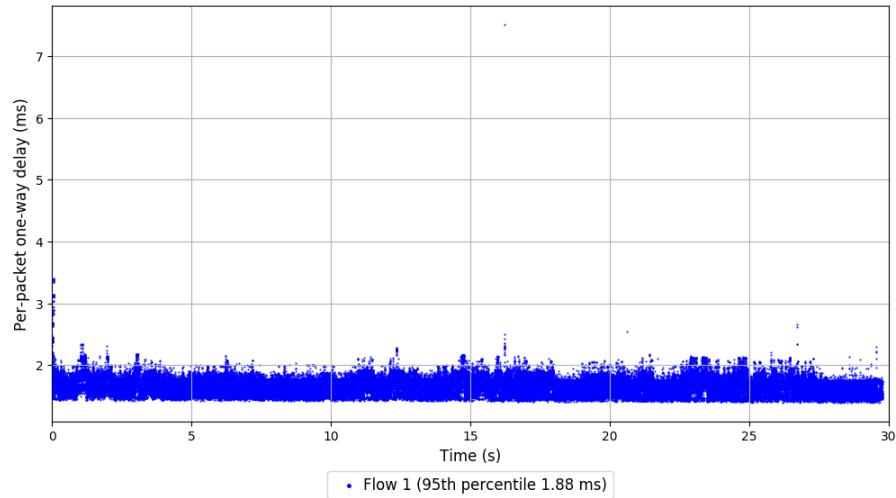
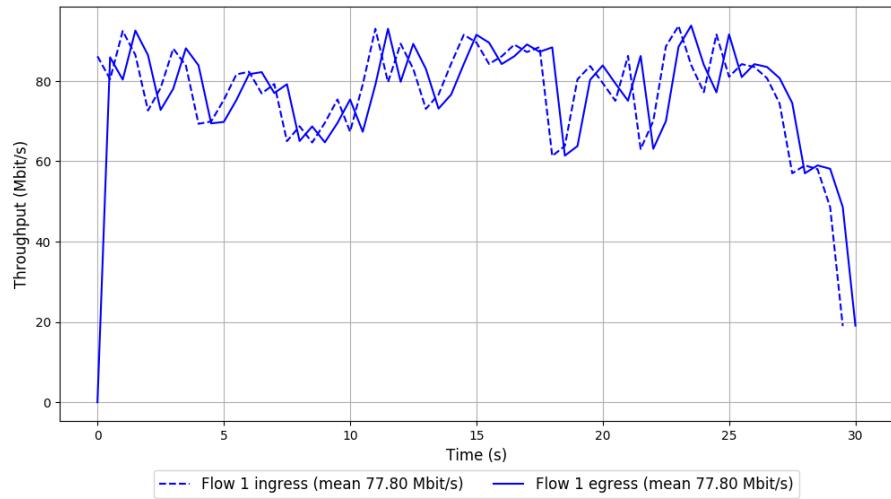


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-23 22:30:48
End at: 2019-11-23 22:31:18
Local clock offset: -11.327 ms
Remote clock offset: 0.277 ms

# Below is generated by plot.py at 2019-11-24 00:35:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.80 Mbit/s
95th percentile per-packet one-way delay: 1.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.80 Mbit/s
95th percentile per-packet one-way delay: 1.884 ms
Loss rate: 0.00%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

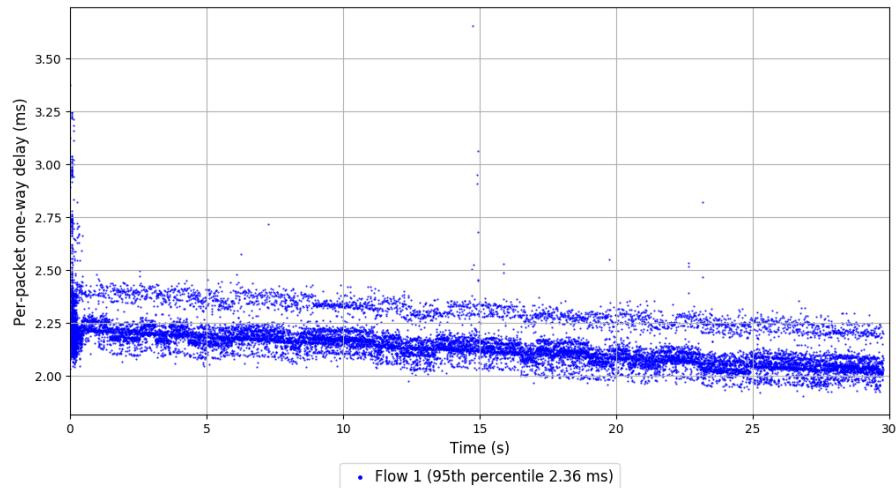
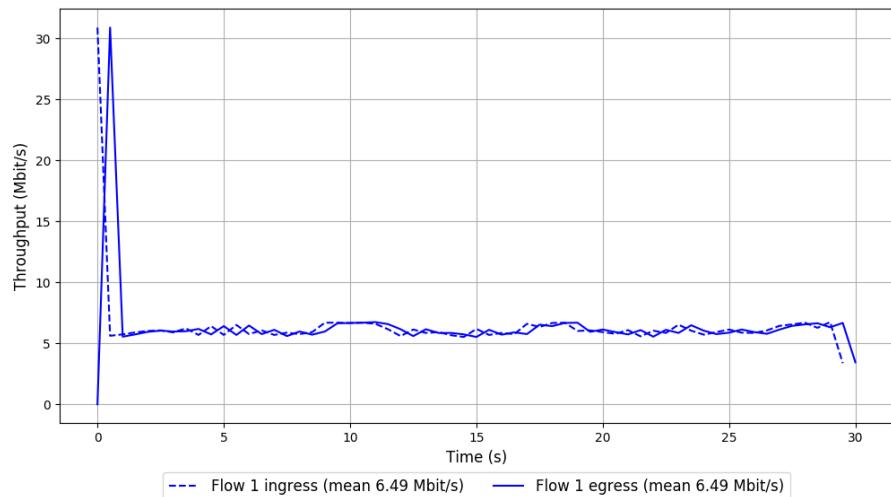


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-23 22:57:33
End at: 2019-11-23 22:58:03
Local clock offset: -15.464 ms
Remote clock offset: 0.622 ms

# Below is generated by plot.py at 2019-11-24 00:35:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 2.361 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 2.361 ms
Loss rate: 0.00%
```

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

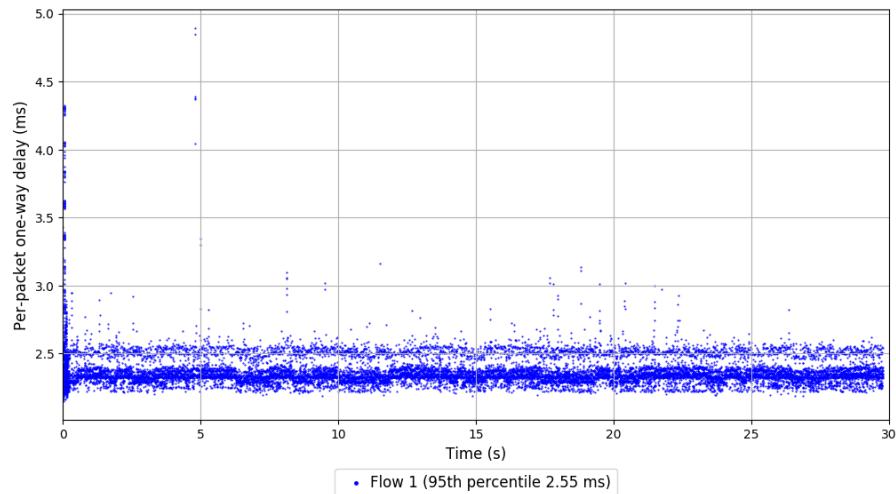
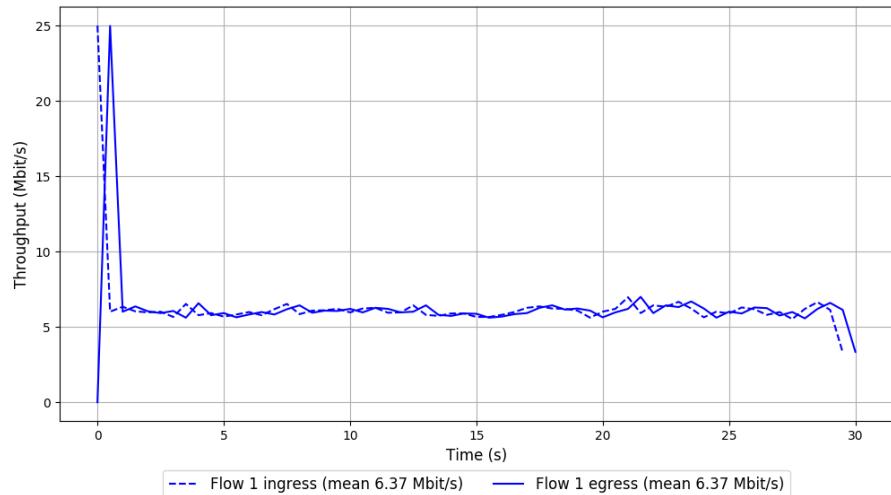


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-23 23:24:11
End at: 2019-11-23 23:24:41
Local clock offset: -13.37 ms
Remote clock offset: 0.555 ms

# Below is generated by plot.py at 2019-11-24 00:35:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 2.548 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 2.548 ms
Loss rate: 0.00%
```

Run 3: Report of Muses\_DecisionTreeR0 — Data Link

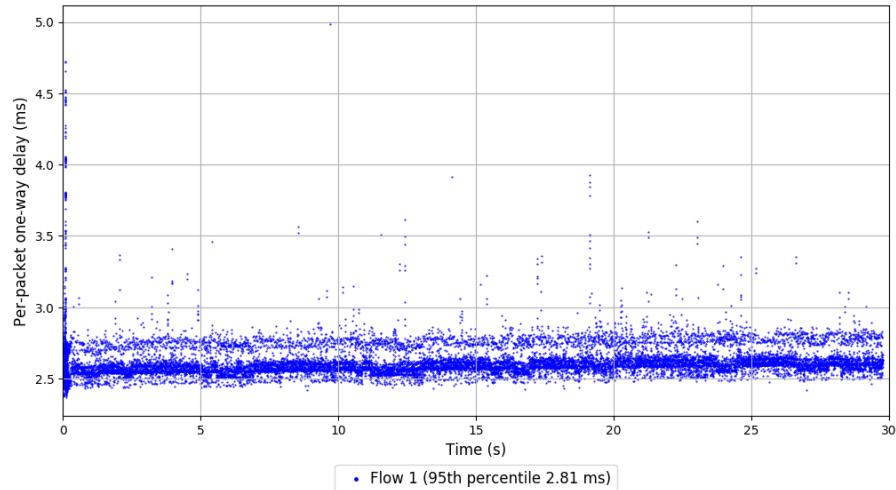
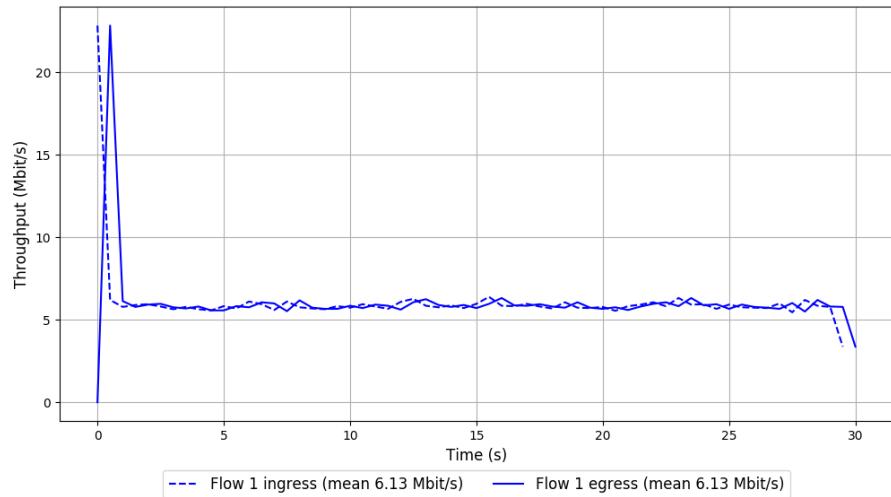


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-23 23:50:49
End at: 2019-11-23 23:51:19
Local clock offset: -10.631 ms
Remote clock offset: 0.265 ms

# Below is generated by plot.py at 2019-11-24 00:35:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 2.807 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 2.807 ms
Loss rate: 0.01%
```

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

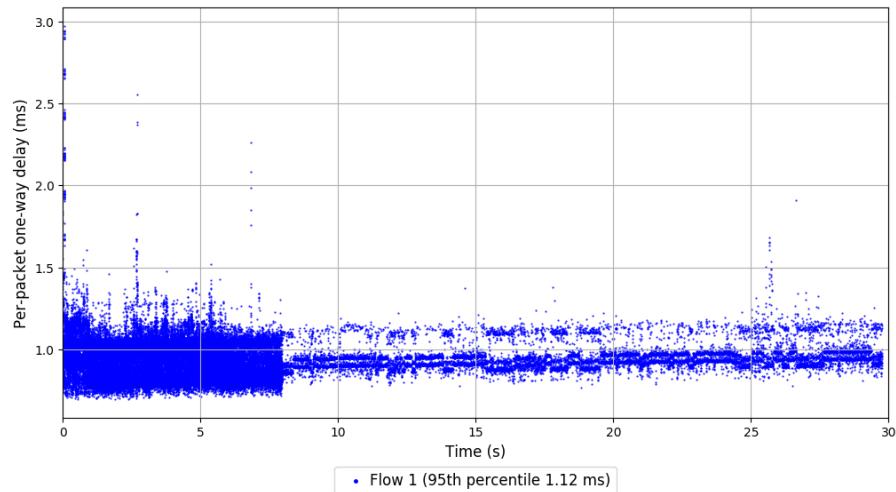
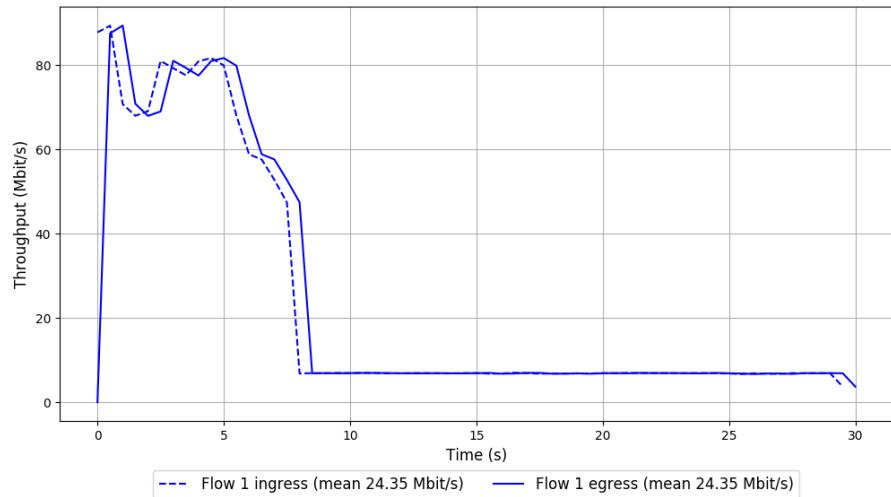


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 00:17:35
End at: 2019-11-24 00:18:05
Local clock offset: -8.847 ms
Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2019-11-24 00:35:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.35 Mbit/s
95th percentile per-packet one-way delay: 1.123 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.35 Mbit/s
95th percentile per-packet one-way delay: 1.123 ms
Loss rate: 0.00%
```

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

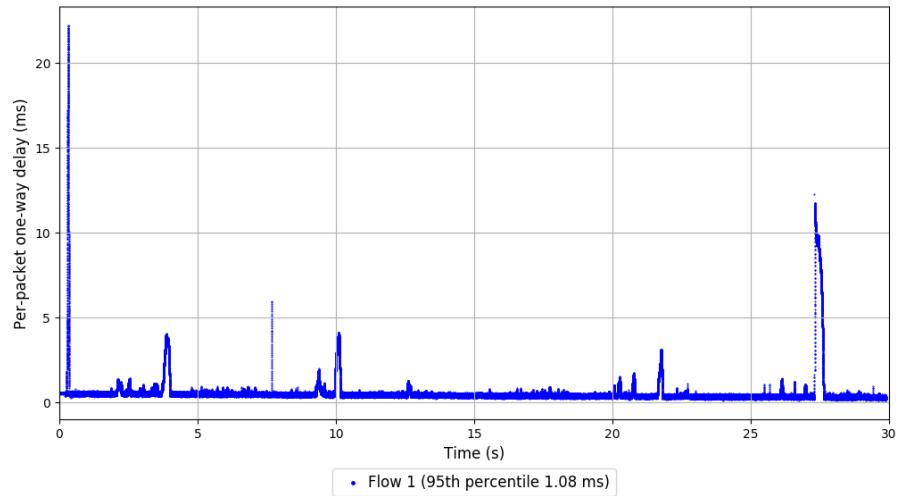
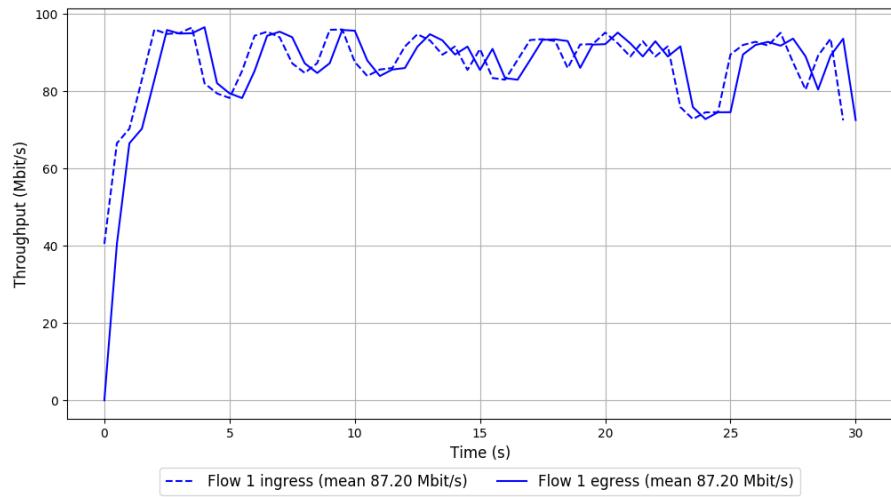


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-11-23 22:36:20
End at: 2019-11-23 22:36:50
Local clock offset: -11.844 ms
Remote clock offset: 0.296 ms

# Below is generated by plot.py at 2019-11-24 00:35:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.20 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.20 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link

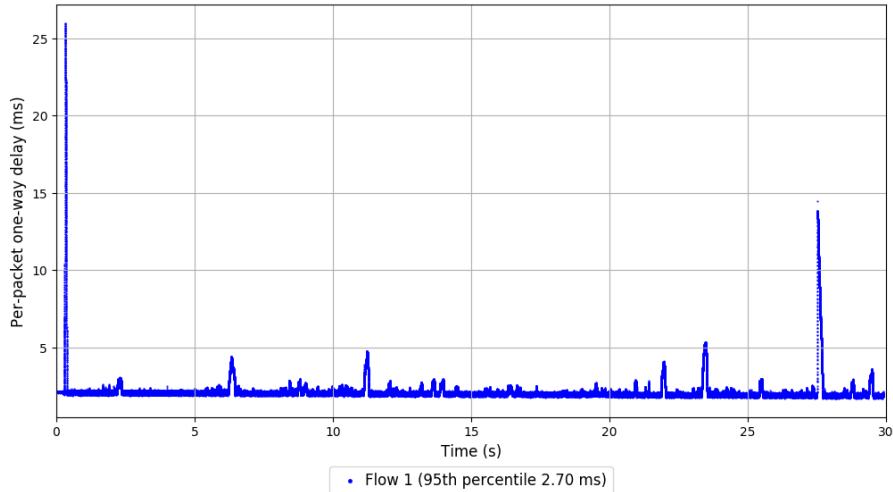
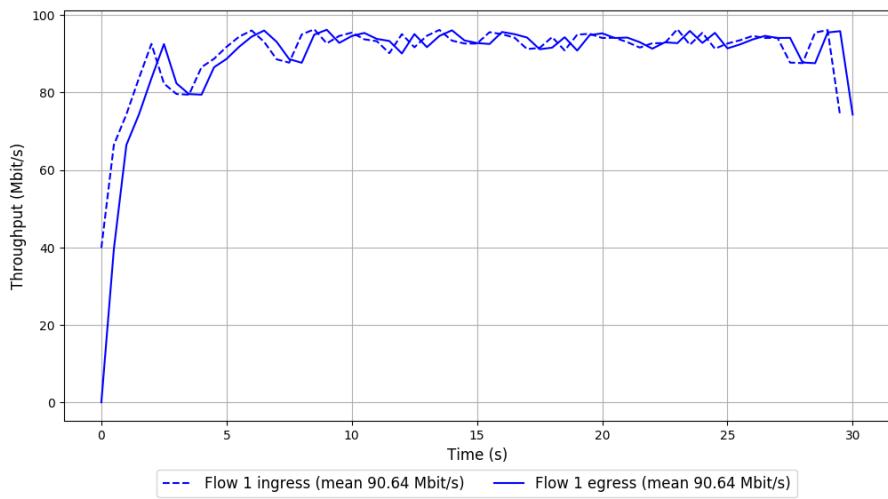


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-11-23 23:03:03
End at: 2019-11-23 23:03:33
Local clock offset: -17.695 ms
Remote clock offset: 0.673 ms

# Below is generated by plot.py at 2019-11-24 00:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.64 Mbit/s
95th percentile per-packet one-way delay: 2.700 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.64 Mbit/s
95th percentile per-packet one-way delay: 2.700 ms
Loss rate: 0.00%
```

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

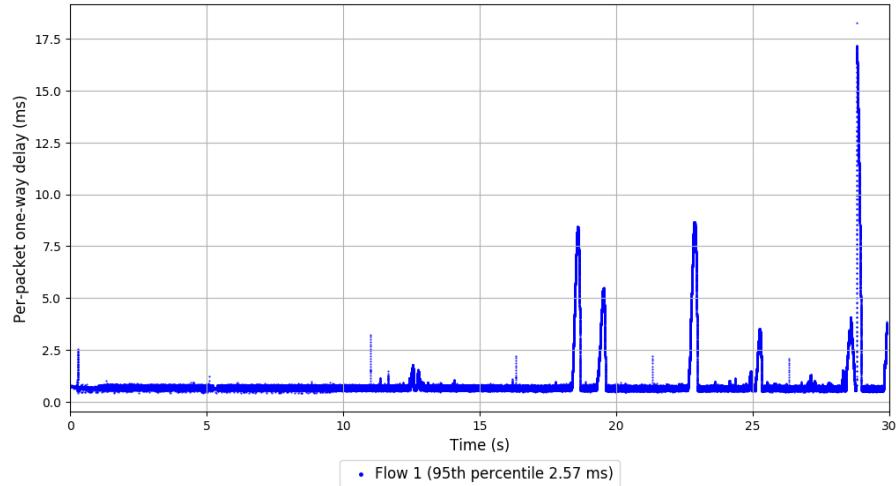
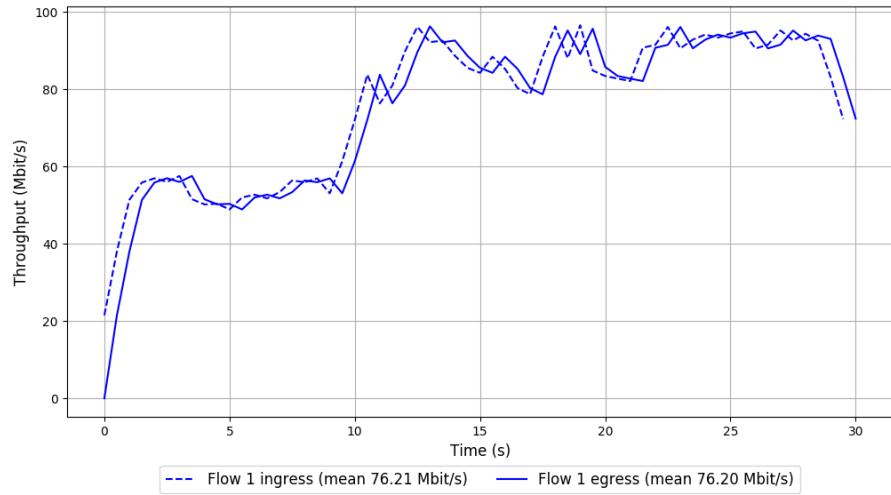


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-11-23 23:29:41
End at: 2019-11-23 23:30:11
Local clock offset: -13.734 ms
Remote clock offset: 0.507 ms

# Below is generated by plot.py at 2019-11-24 00:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.20 Mbit/s
95th percentile per-packet one-way delay: 2.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.20 Mbit/s
95th percentile per-packet one-way delay: 2.566 ms
Loss rate: 0.00%
```

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

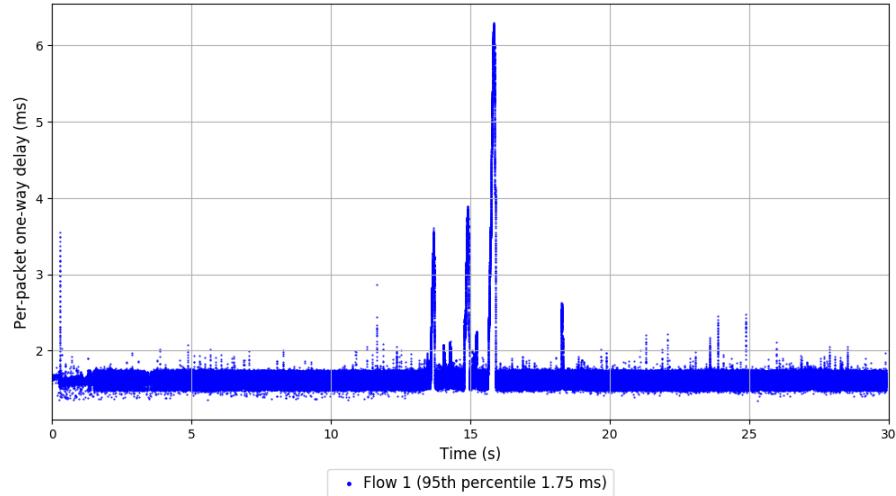
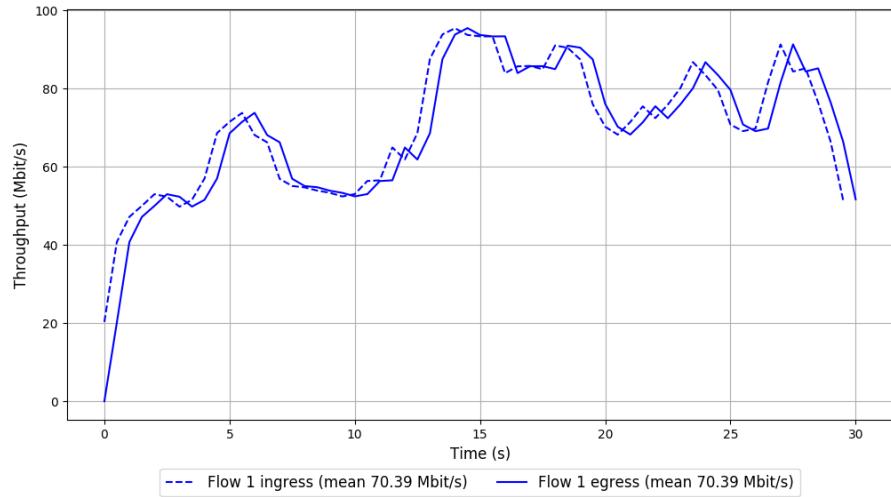


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-11-23 23:56:18
End at: 2019-11-23 23:56:48
Local clock offset: -11.029 ms
Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2019-11-24 00:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.39 Mbit/s
95th percentile per-packet one-way delay: 1.752 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.39 Mbit/s
95th percentile per-packet one-way delay: 1.752 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Allegro — Data Link

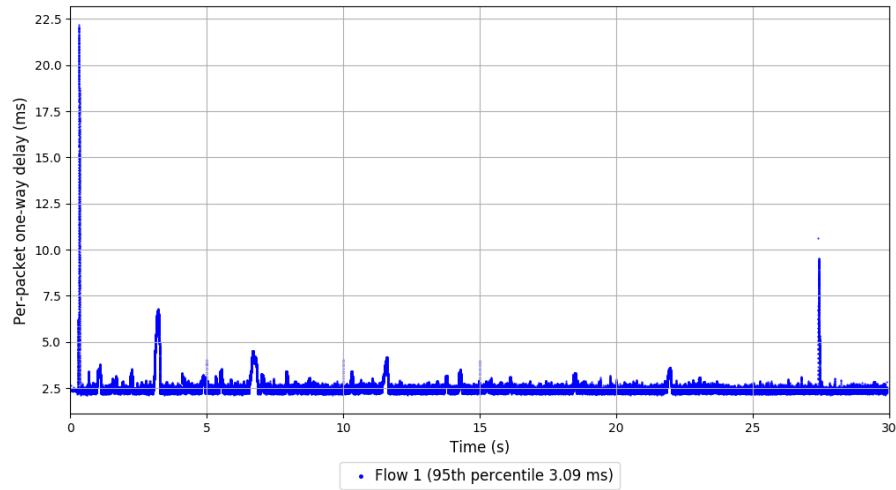
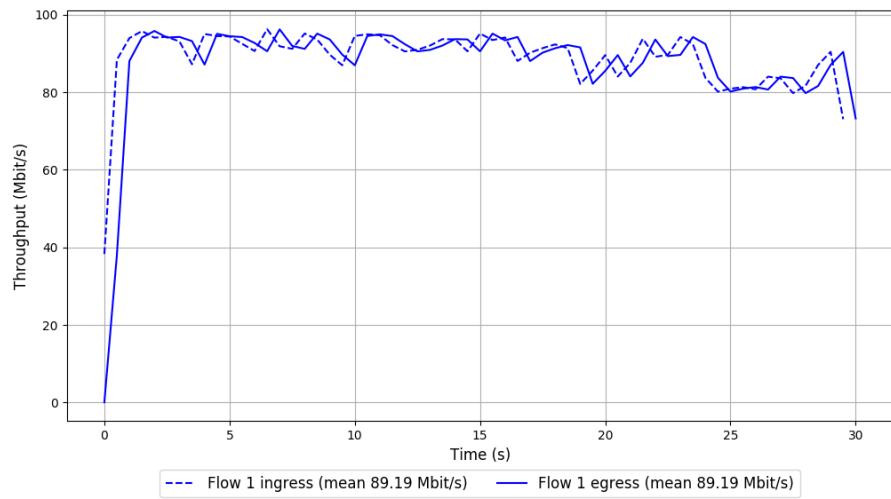


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-11-24 00:23:05
End at: 2019-11-24 00:23:35
Local clock offset: -8.377 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-11-24 00:35:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.19 Mbit/s
95th percentile per-packet one-way delay: 3.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.19 Mbit/s
95th percentile per-packet one-way delay: 3.090 ms
Loss rate: 0.00%
```

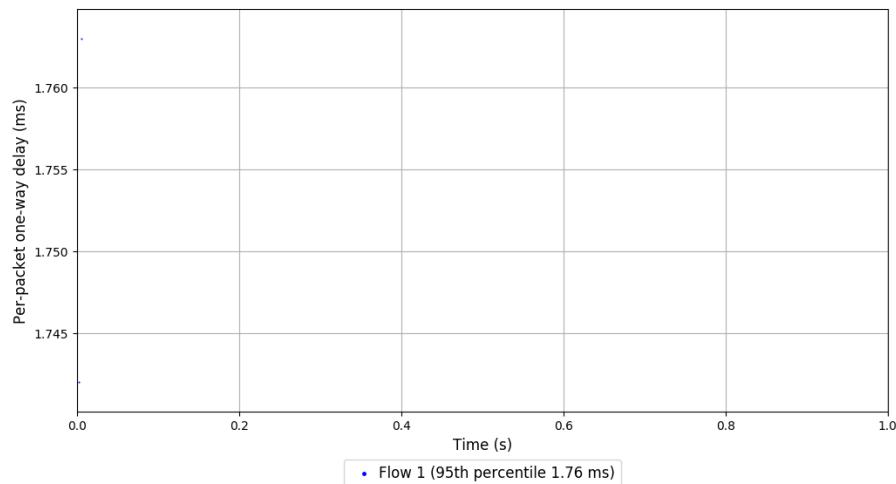
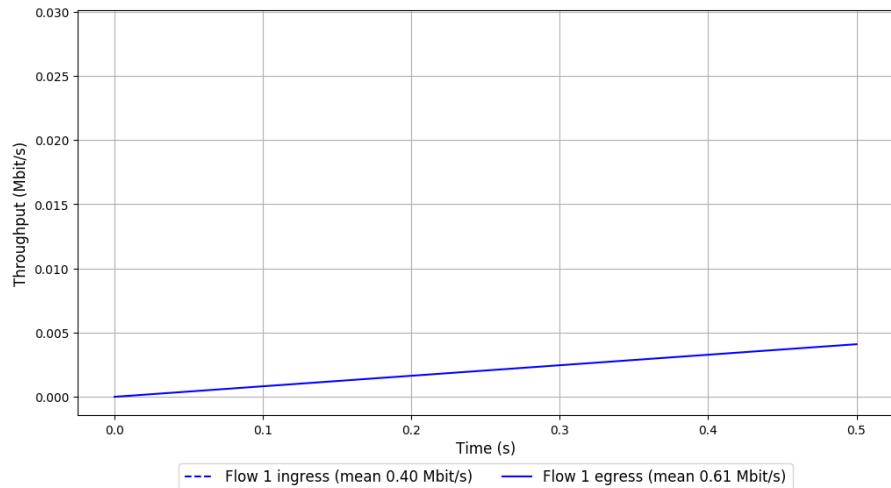
Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-11-23 22:27:31  
End at: 2019-11-23 22:28:01  
Local clock offset: -12.336 ms  
Remote clock offset: 0.273 ms

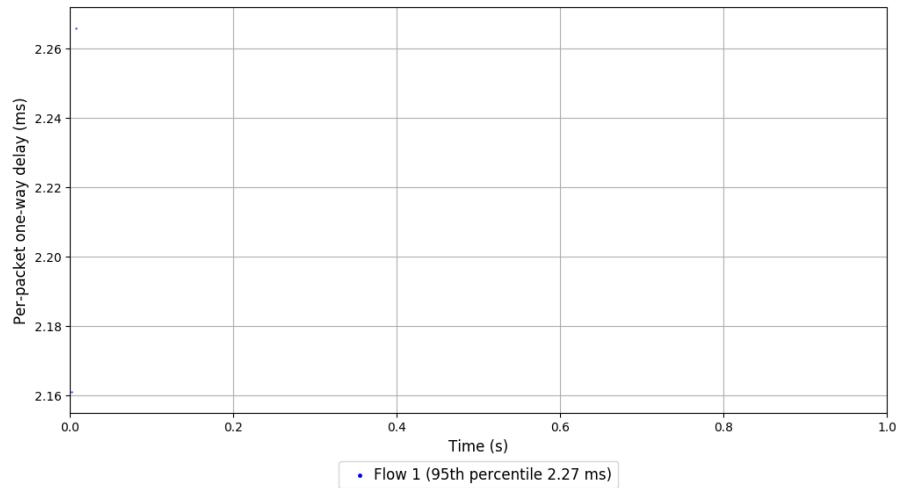
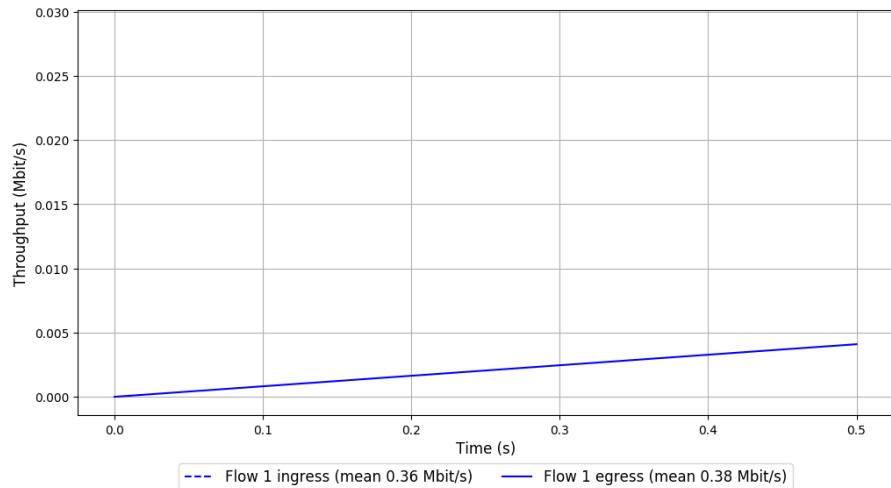
Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-11-23 22:54:16  
End at: 2019-11-23 22:54:46  
Local clock offset: -14.347 ms  
Remote clock offset: 0.533 ms

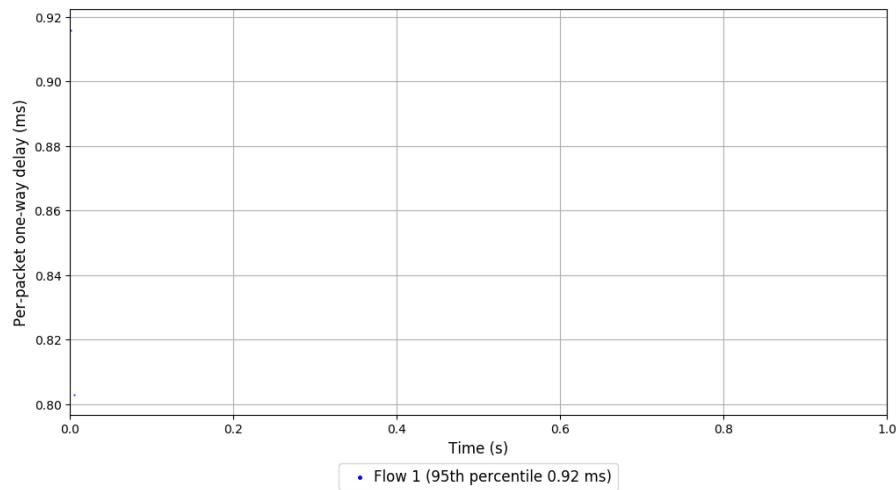
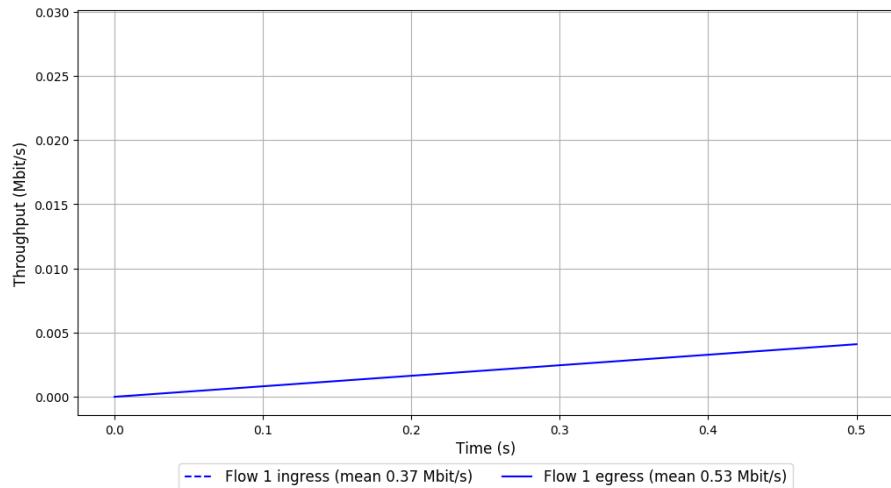
## Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-11-23 23:20:54  
End at: 2019-11-23 23:21:24  
Local clock offset: -13.632 ms  
Remote clock offset: 0.574 ms

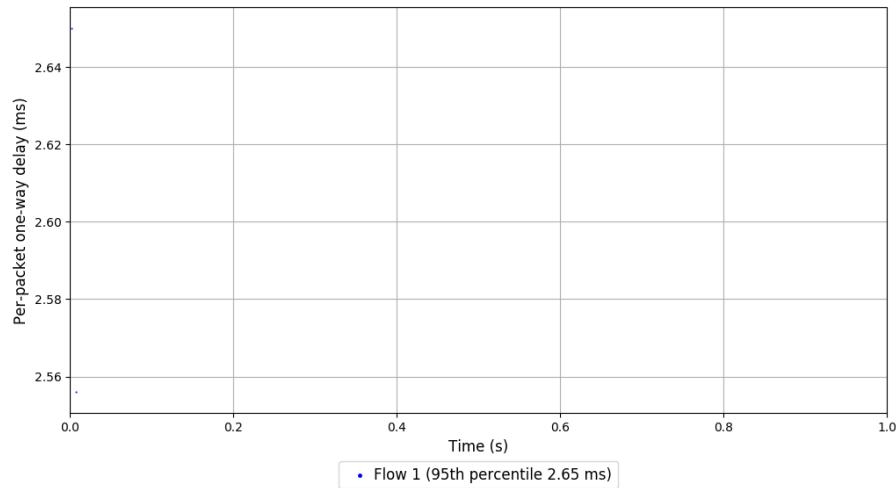
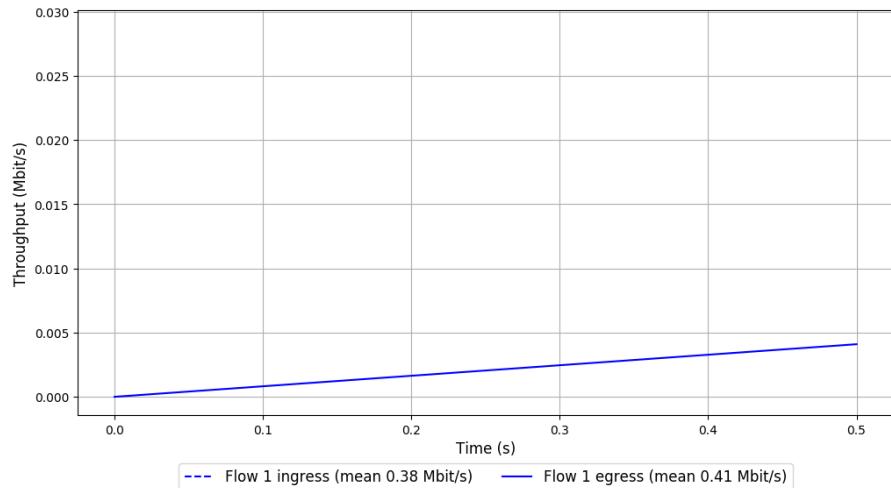
### Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-11-23 23:47:32  
End at: 2019-11-23 23:48:02  
Local clock offset: -11.326 ms  
Remote clock offset: 0.268 ms

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



Run 5: Statistics of PCC-Expr

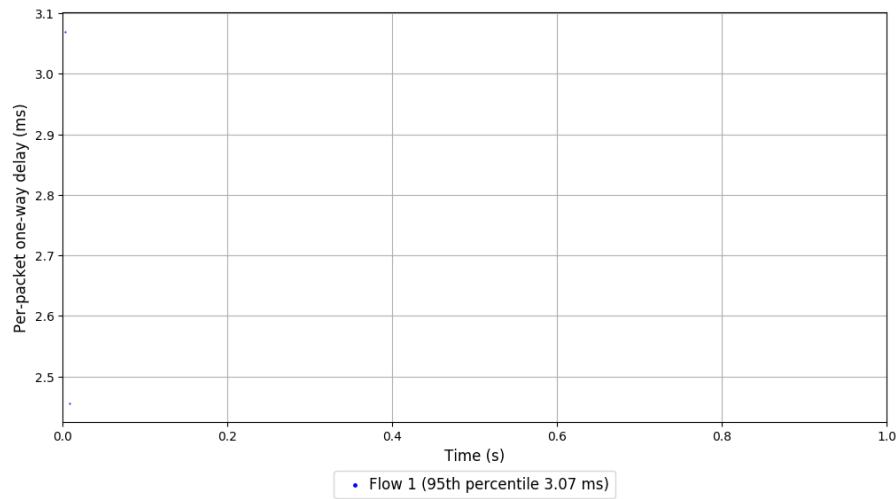
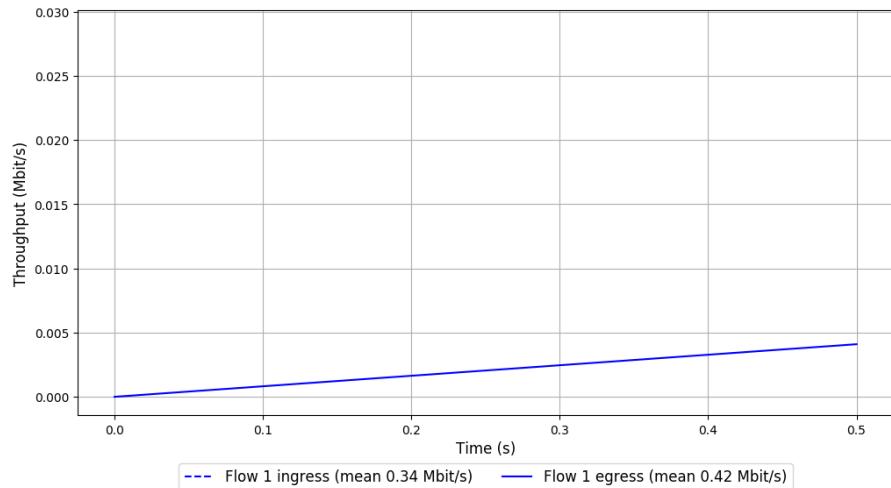
Start at: 2019-11-24 00:14:18

End at: 2019-11-24 00:14:48

Local clock offset: -9.523 ms

Remote clock offset: 0.082 ms

Run 5: Report of PCC-Expr — Data Link

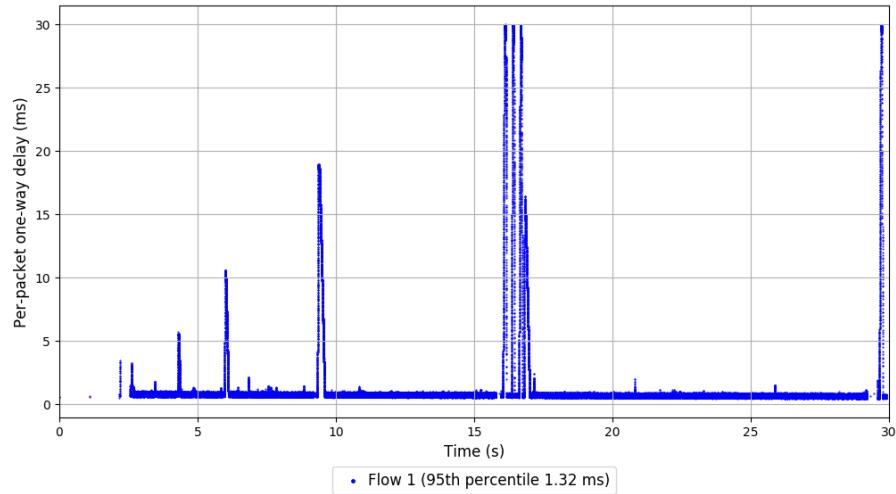
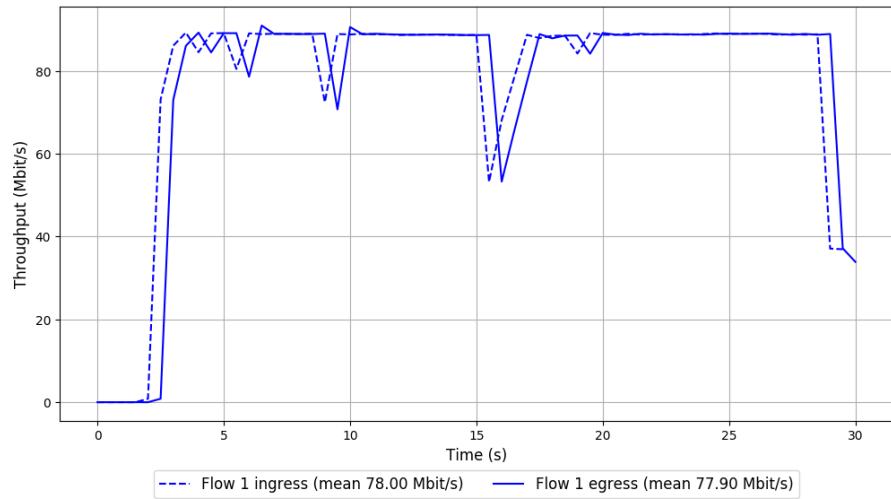


Run 1: Statistics of QUIC Cubic

```
Start at: 2019-11-23 22:20:49
End at: 2019-11-23 22:21:19
Local clock offset: -8.944 ms
Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2019-11-24 00:36:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.90 Mbit/s
95th percentile per-packet one-way delay: 1.325 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 77.90 Mbit/s
95th percentile per-packet one-way delay: 1.325 ms
Loss rate: 0.14%
```

Run 1: Report of QUIC Cubic — Data Link

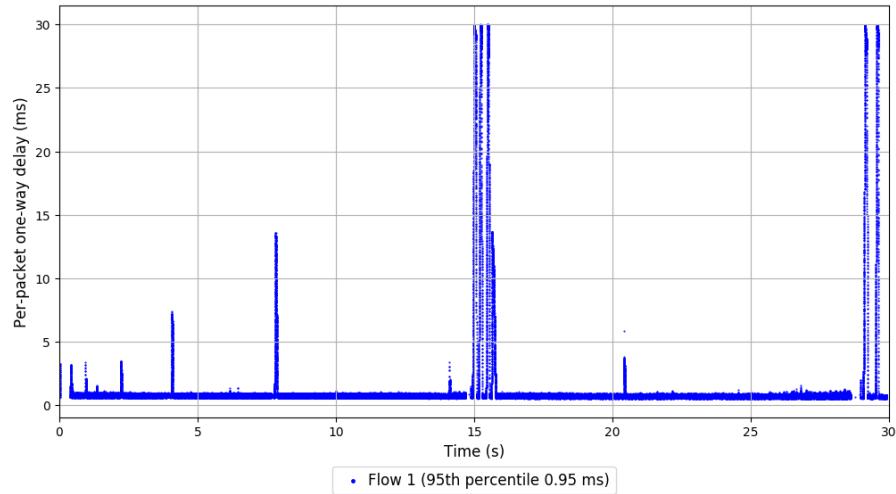
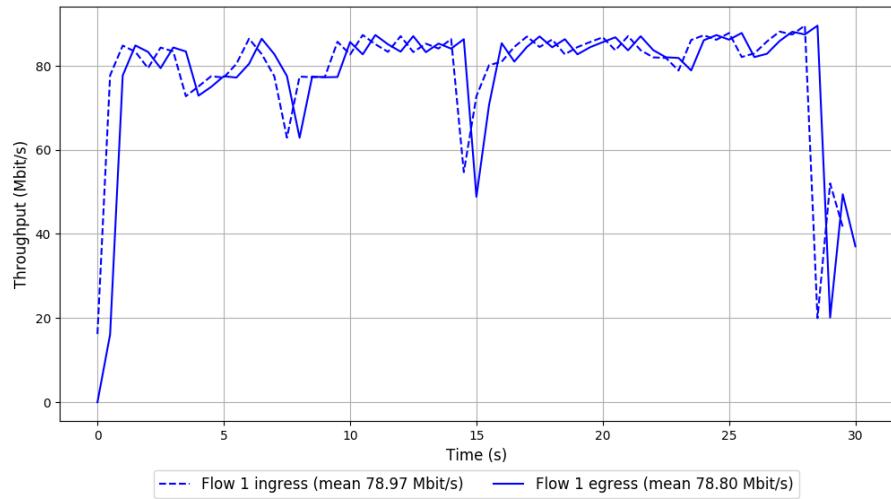


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-11-23 22:47:35
End at: 2019-11-23 22:48:05
Local clock offset: -12.664 ms
Remote clock offset: 0.508 ms

# Below is generated by plot.py at 2019-11-24 00:36:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.80 Mbit/s
95th percentile per-packet one-way delay: 0.953 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 78.80 Mbit/s
95th percentile per-packet one-way delay: 0.953 ms
Loss rate: 0.21%
```

Run 2: Report of QUIC Cubic — Data Link

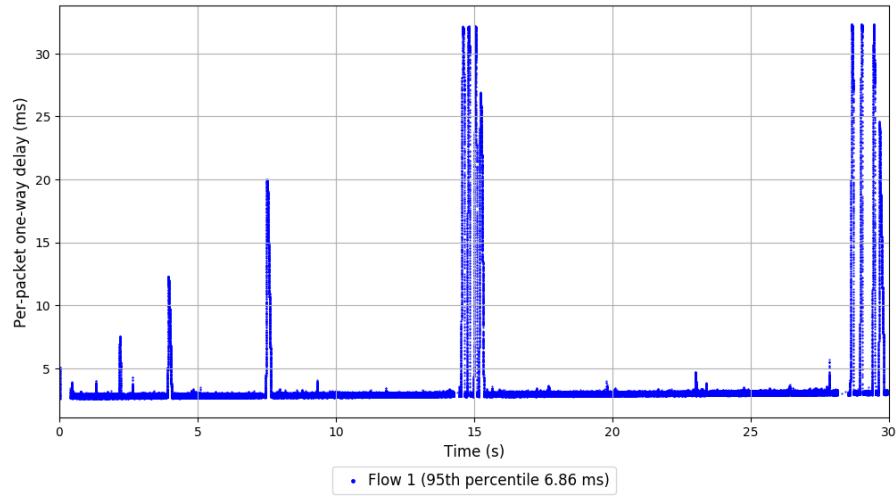
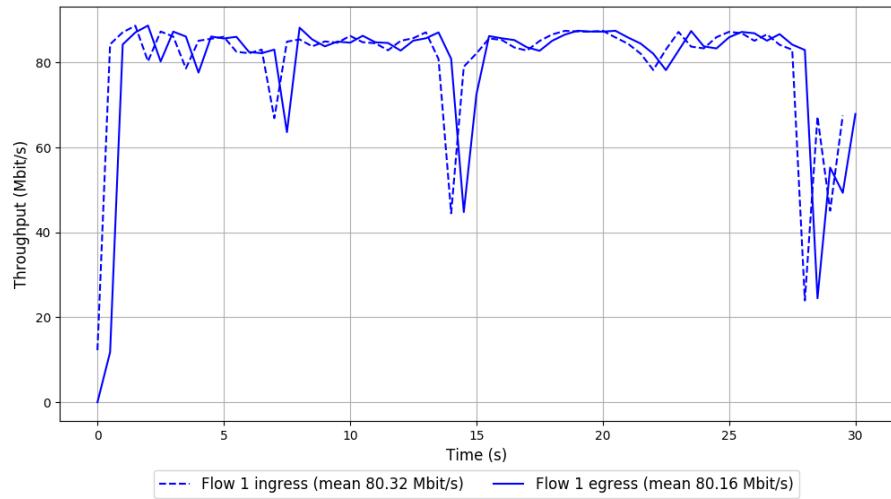


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-11-23 23:14:11
End at: 2019-11-23 23:14:41
Local clock offset: -16.306 ms
Remote clock offset: 0.708 ms

# Below is generated by plot.py at 2019-11-24 00:36:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.16 Mbit/s
95th percentile per-packet one-way delay: 6.855 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 80.16 Mbit/s
95th percentile per-packet one-way delay: 6.855 ms
Loss rate: 0.20%
```

Run 3: Report of QUIC Cubic — Data Link

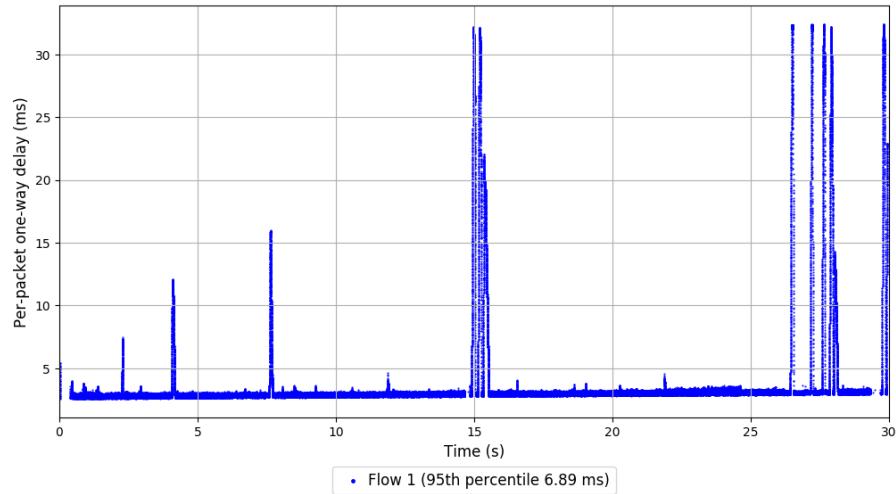
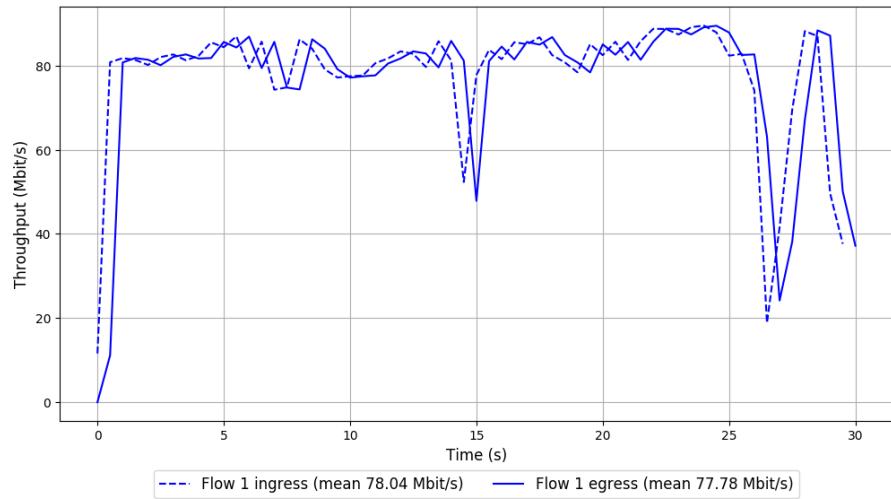


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-11-23 23:40:50
End at: 2019-11-23 23:41:20
Local clock offset: -14.682 ms
Remote clock offset: 0.382 ms

# Below is generated by plot.py at 2019-11-24 00:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 6.893 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 6.893 ms
Loss rate: 0.26%
```

Run 4: Report of QUIC Cubic — Data Link

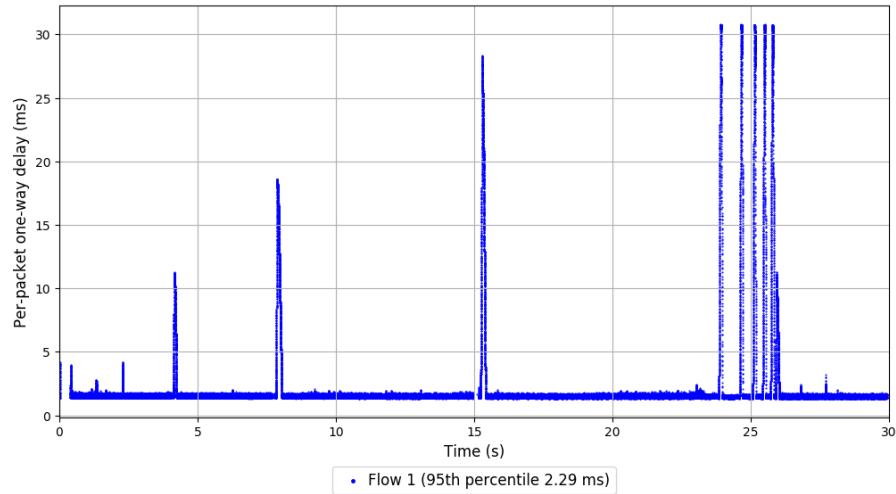
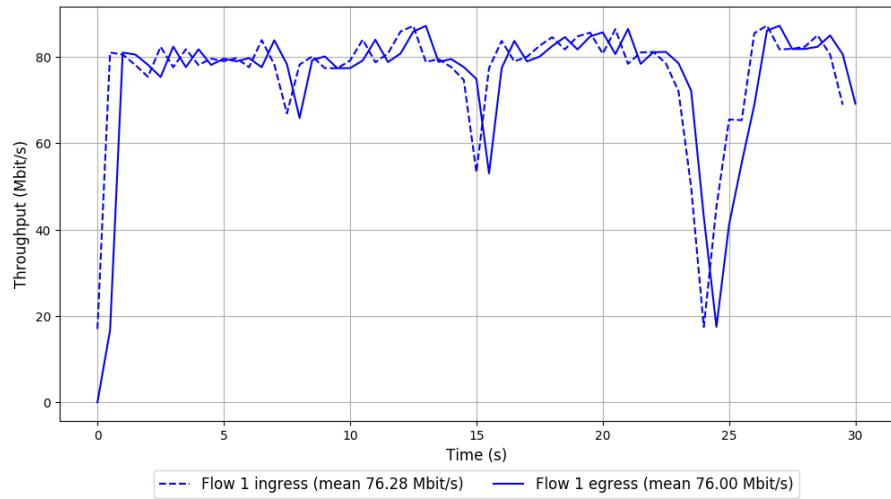


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-11-24 00:07:30
End at: 2019-11-24 00:08:00
Local clock offset: -11.689 ms
Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2019-11-24 00:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.00 Mbit/s
95th percentile per-packet one-way delay: 2.295 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 76.00 Mbit/s
95th percentile per-packet one-way delay: 2.295 ms
Loss rate: 0.36%
```

Run 5: Report of QUIC Cubic — Data Link

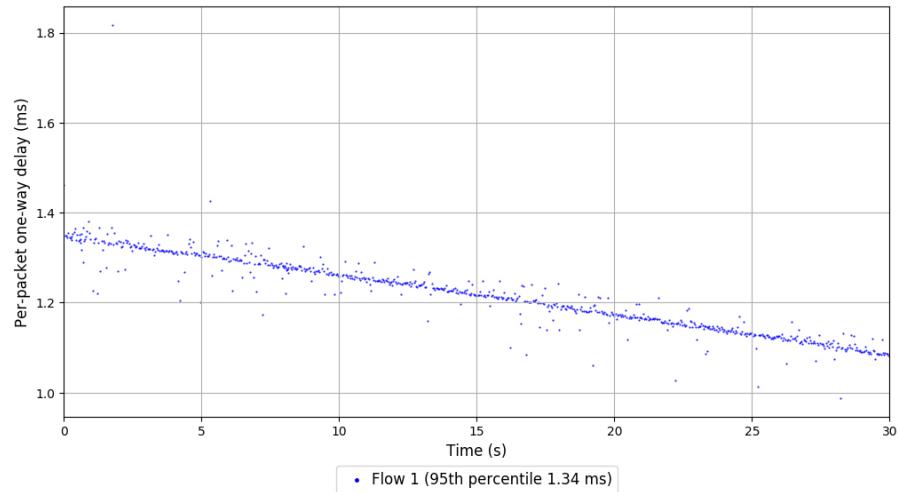
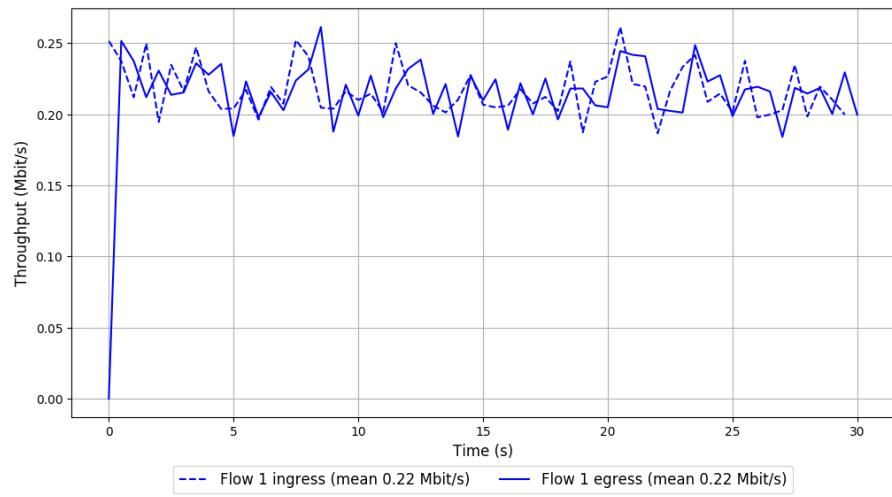


```
Run 1: Statistics of SCReAM

Start at: 2019-11-23 22:21:56
End at: 2019-11-23 22:22:26
Local clock offset: -10.072 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2019-11-24 00:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.338 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.338 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

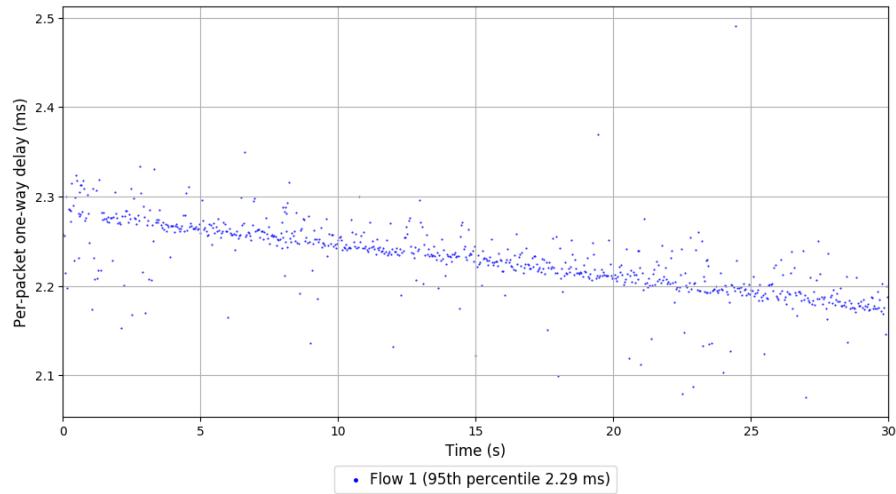
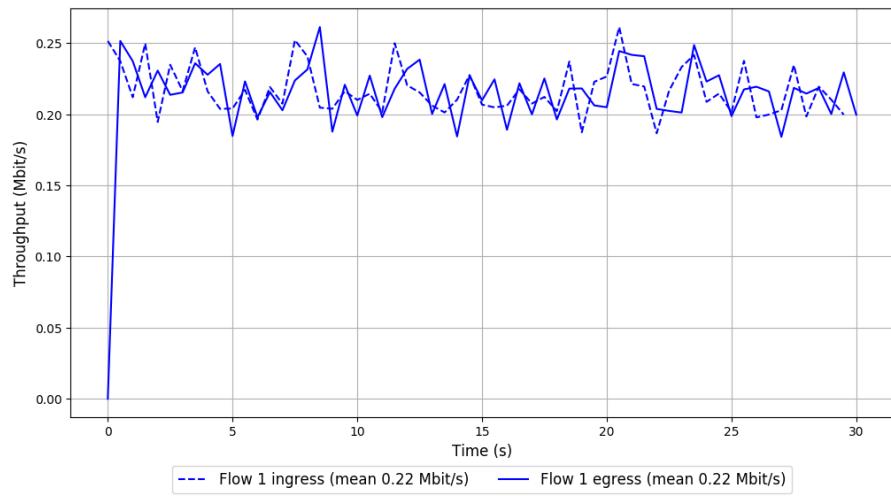


Run 2: Statistics of SCReAM

```
Start at: 2019-11-23 22:48:42
End at: 2019-11-23 22:49:12
Local clock offset: -12.825 ms
Remote clock offset: 0.508 ms

# Below is generated by plot.py at 2019-11-24 00:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.285 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.285 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

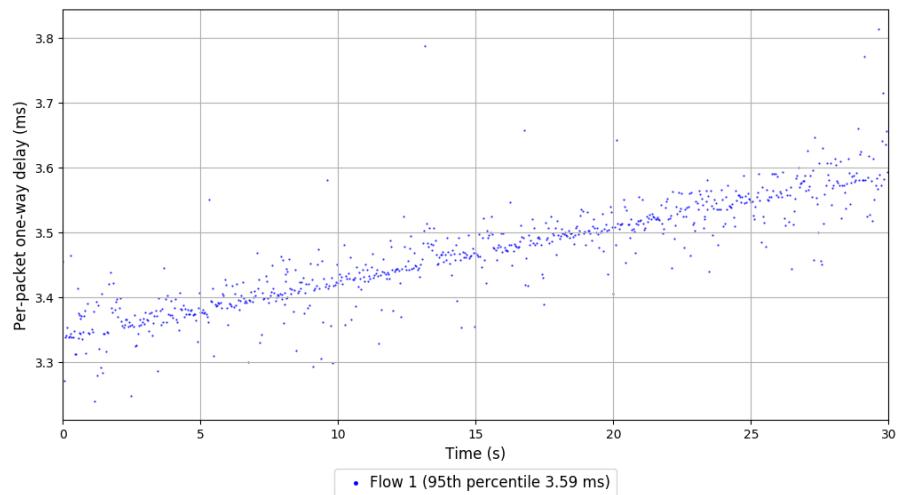
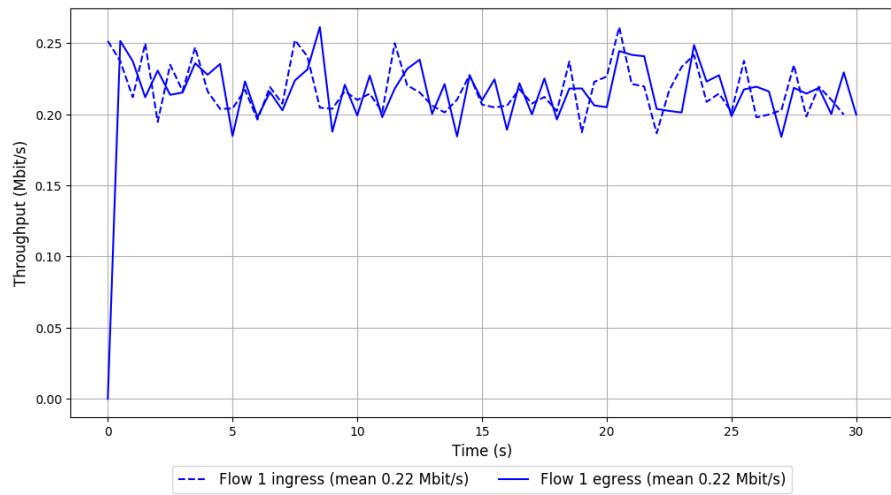


Run 3: Statistics of SCReAM

```
Start at: 2019-11-23 23:15:19
End at: 2019-11-23 23:15:49
Local clock offset: -16.2 ms
Remote clock offset: 0.756 ms

# Below is generated by plot.py at 2019-11-24 00:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.588 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.588 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

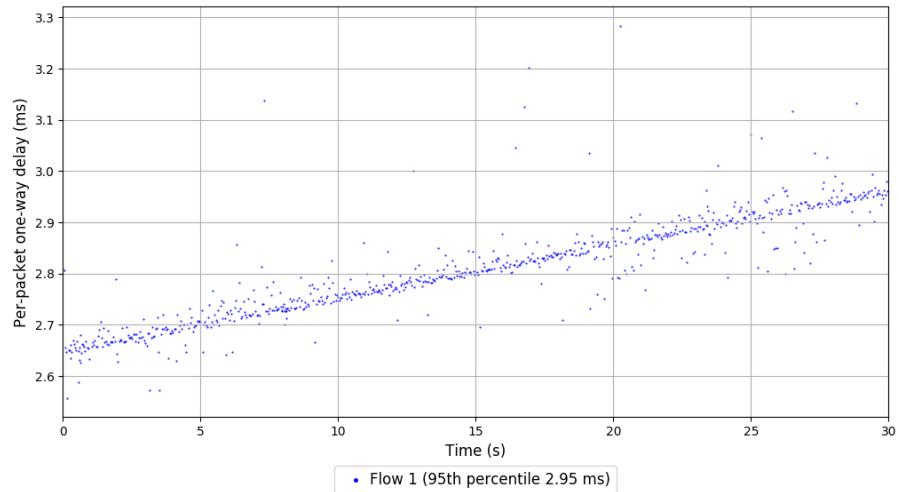
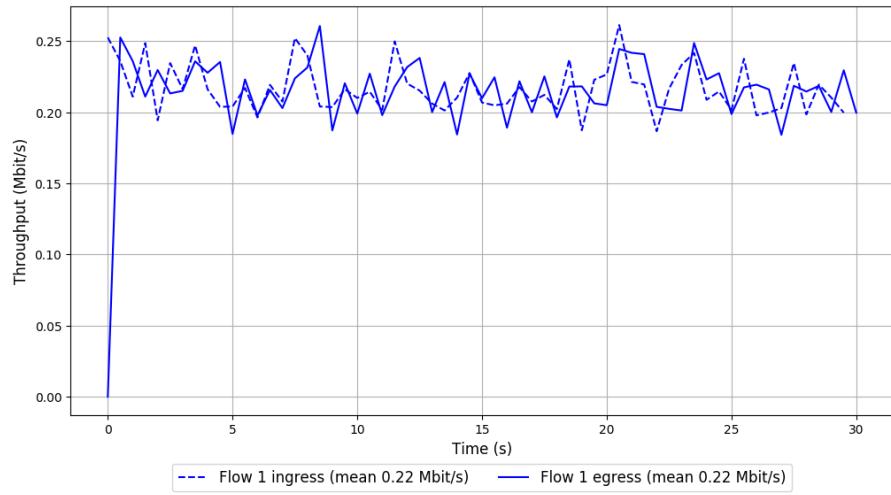


Run 4: Statistics of SCReAM

```
Start at: 2019-11-23 23:41:57
End at: 2019-11-23 23:42:27
Local clock offset: -13.846 ms
Remote clock offset: 0.332 ms

# Below is generated by plot.py at 2019-11-24 00:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.954 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

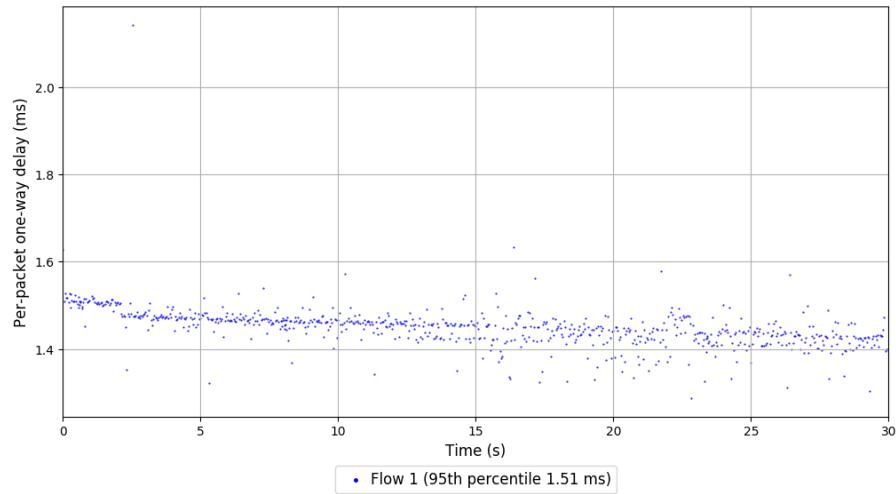
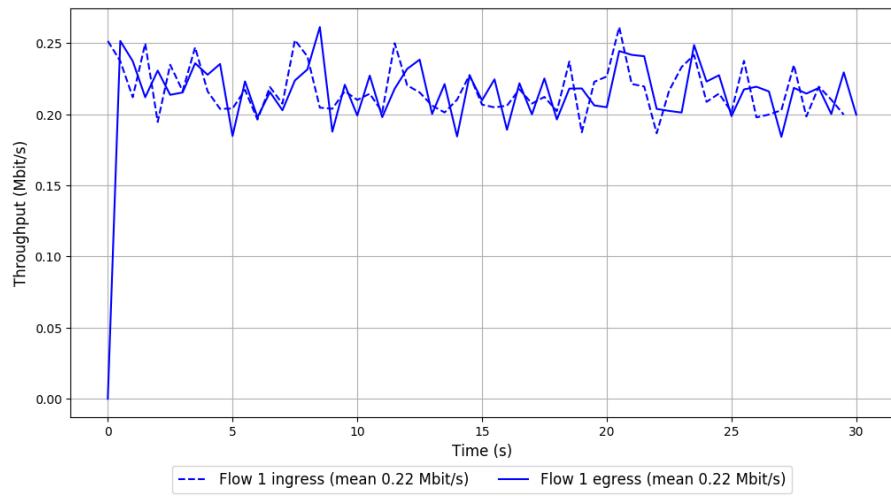


Run 5: Statistics of SCReAM

```
Start at: 2019-11-24 00:08:37
End at: 2019-11-24 00:09:07
Local clock offset: -11.808 ms
Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-11-24 00:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.509 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.509 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

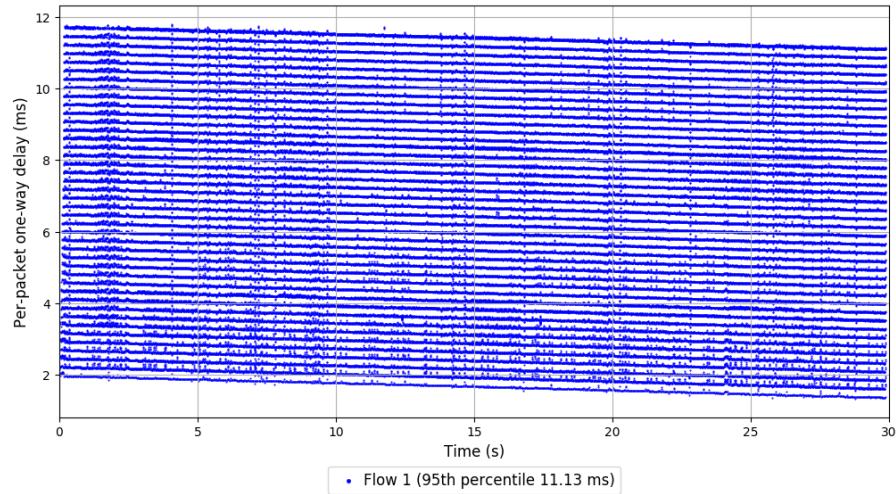
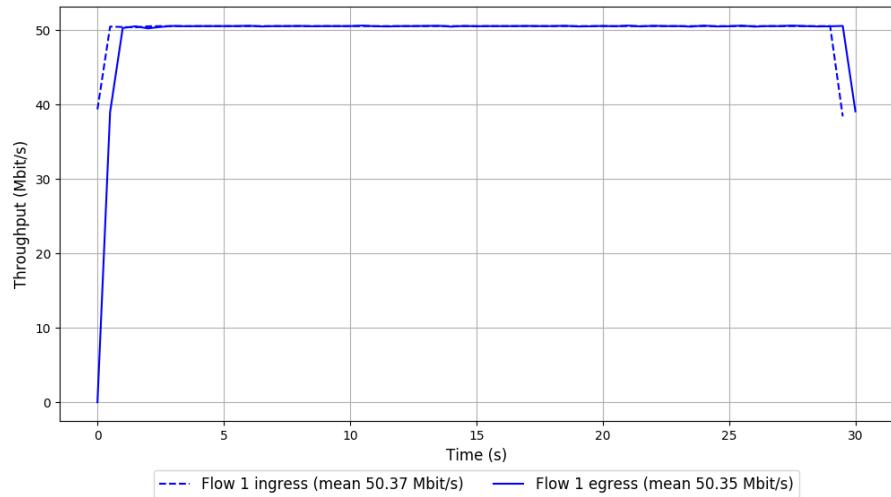


Run 1: Statistics of Sprout

```
Start at: 2019-11-23 22:13:01
End at: 2019-11-23 22:13:31
Local clock offset: -7.792 ms
Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2019-11-24 00:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.35 Mbit/s
95th percentile per-packet one-way delay: 11.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.35 Mbit/s
95th percentile per-packet one-way delay: 11.130 ms
Loss rate: 0.00%
```

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

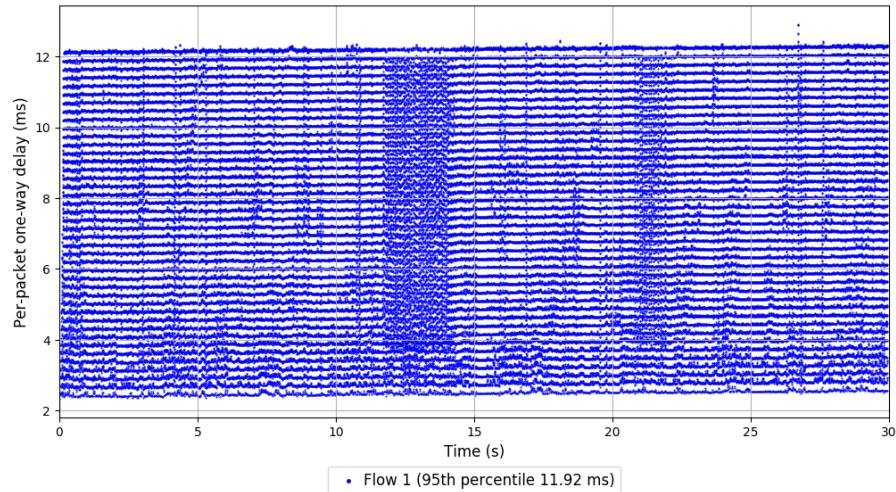
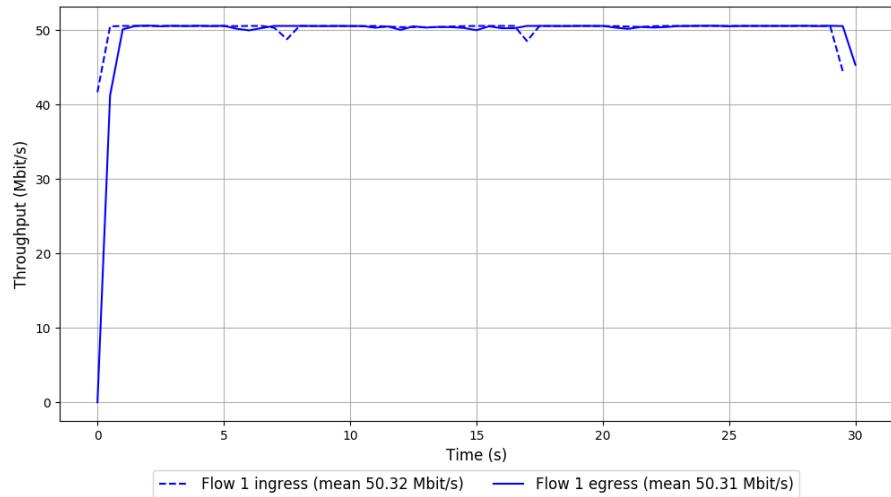


Run 2: Statistics of Sprout

```
Start at: 2019-11-23 22:39:42
End at: 2019-11-23 22:40:12
Local clock offset: -13.444 ms
Remote clock offset: 0.3 ms

# Below is generated by plot.py at 2019-11-24 00:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 11.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 11.921 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link

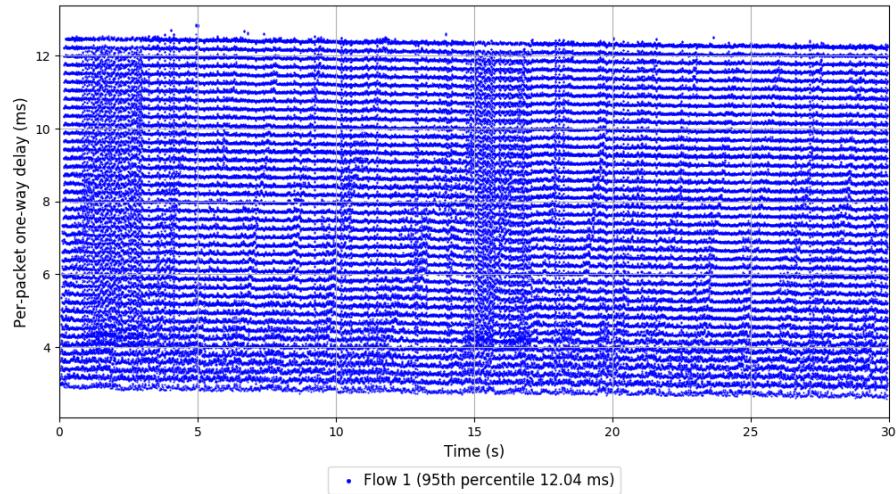
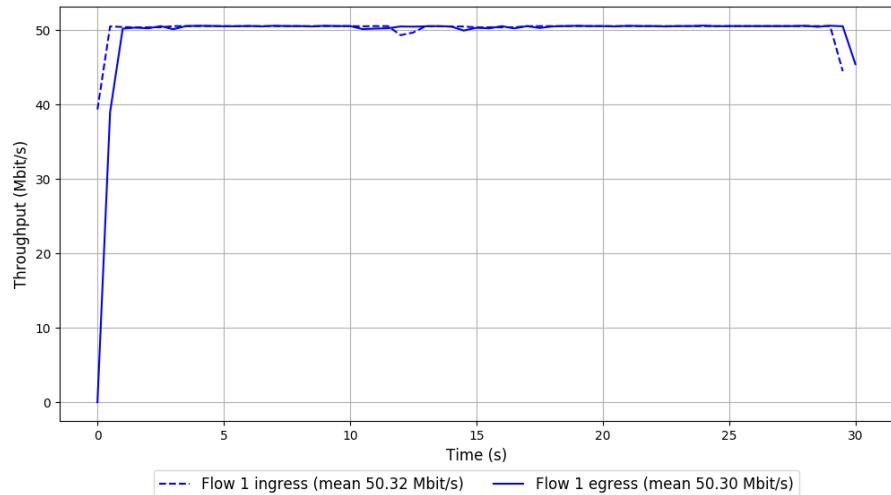


Run 3: Statistics of Sprout

```
Start at: 2019-11-23 23:06:25
End at: 2019-11-23 23:06:55
Local clock offset: -20.083 ms
Remote clock offset: 0.656 ms

# Below is generated by plot.py at 2019-11-24 00:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 12.041 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 12.041 ms
Loss rate: 0.00%
```

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

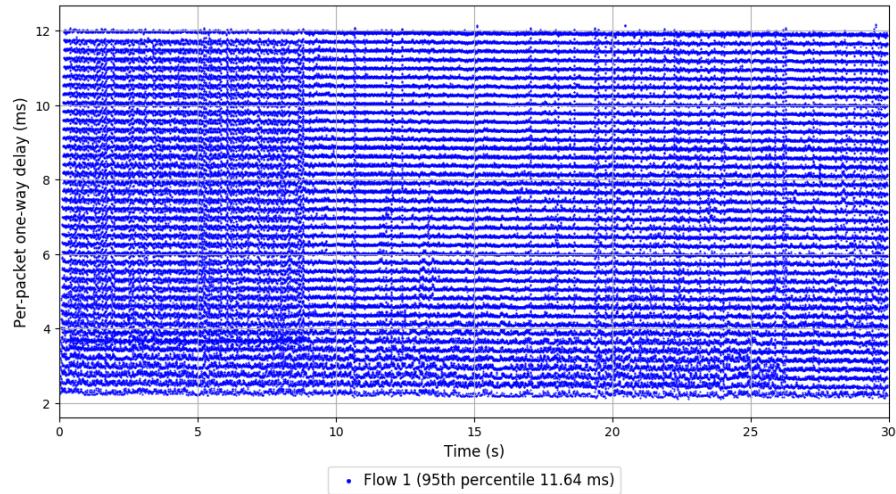
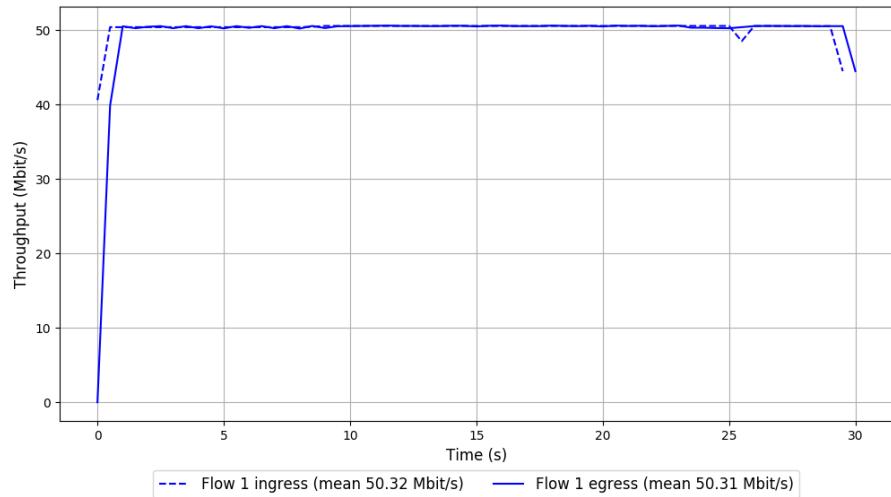


Run 4: Statistics of Sprout

```
Start at: 2019-11-23 23:33:03
End at: 2019-11-23 23:33:33
Local clock offset: -14.308 ms
Remote clock offset: 0.501 ms

# Below is generated by plot.py at 2019-11-24 00:36:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 11.644 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 11.644 ms
Loss rate: 0.00%
```

## Run 4: Report of Sprout — Data Link

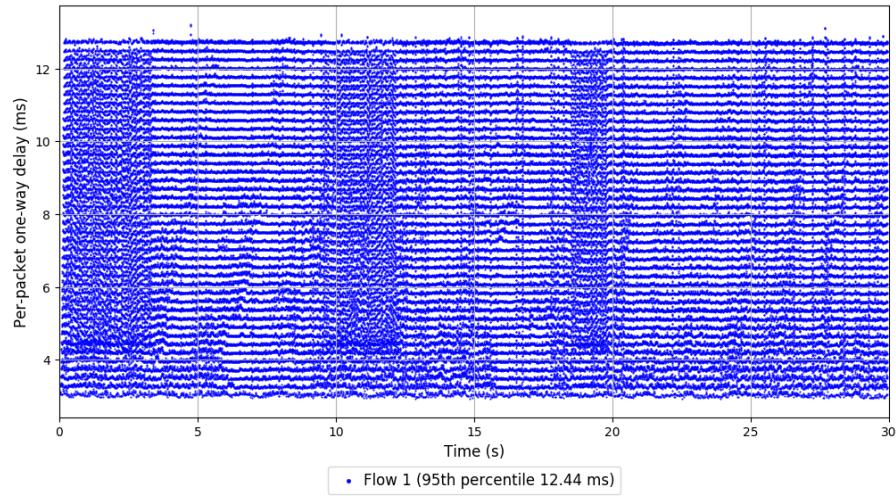
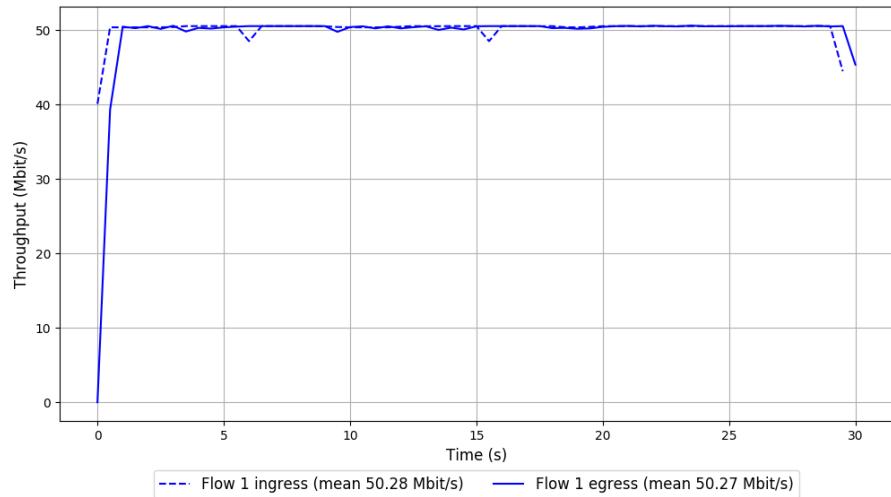


Run 5: Statistics of Sprout

```
Start at: 2019-11-23 23:59:40
End at: 2019-11-24 00:00:10
Local clock offset: -11.039 ms
Remote clock offset: 0.123 ms

# Below is generated by plot.py at 2019-11-24 00:36:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 12.441 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 12.441 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

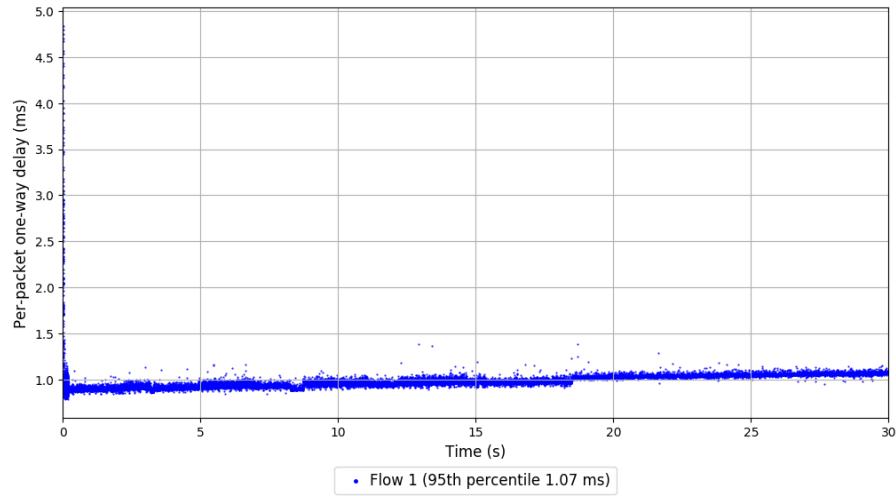
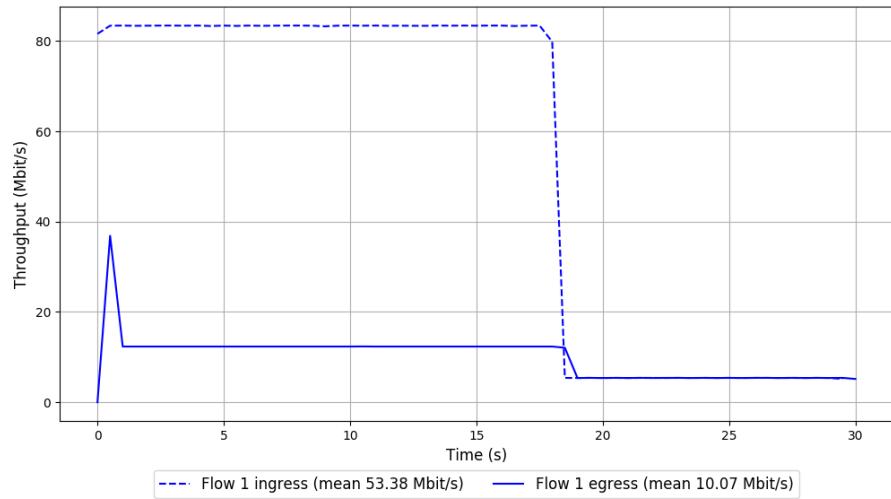


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-11-23 22:28:35
End at: 2019-11-23 22:29:05
Local clock offset: -11.007 ms
Remote clock offset: 0.235 ms

# Below is generated by plot.py at 2019-11-24 00:36:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.07 Mbit/s
95th percentile per-packet one-way delay: 1.069 ms
Loss rate: 81.14%
-- Flow 1:
Average throughput: 10.07 Mbit/s
95th percentile per-packet one-way delay: 1.069 ms
Loss rate: 81.14%
```

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

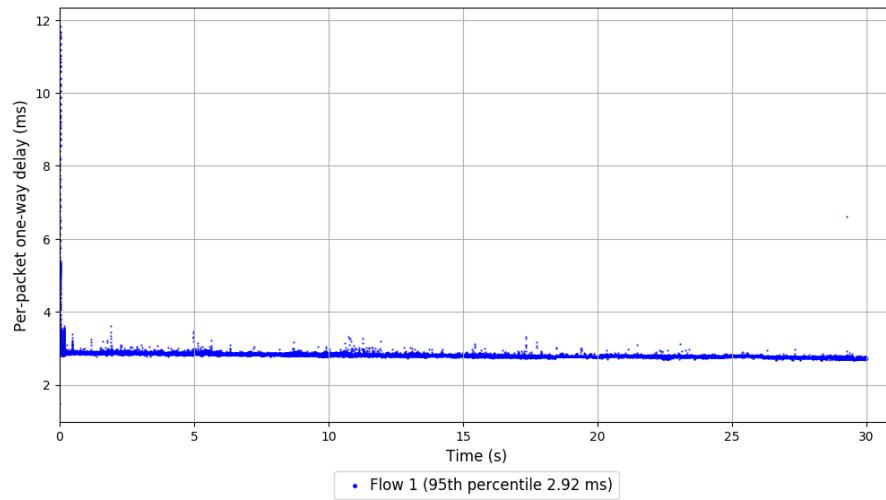
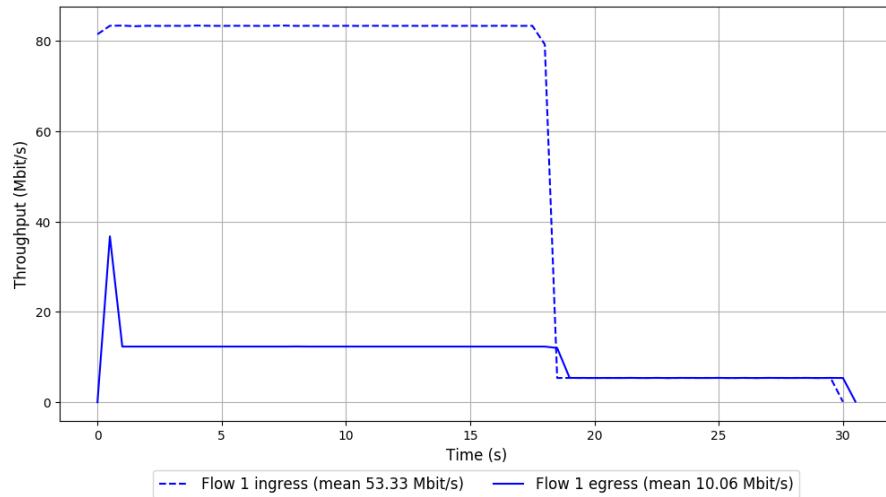


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-11-23 22:55:20
End at: 2019-11-23 22:55:50
Local clock offset: -15.367 ms
Remote clock offset: 0.588 ms

# Below is generated by plot.py at 2019-11-24 00:36:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 2.924 ms
Loss rate: 81.13%
-- Flow 1:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 2.924 ms
Loss rate: 81.13%
```

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

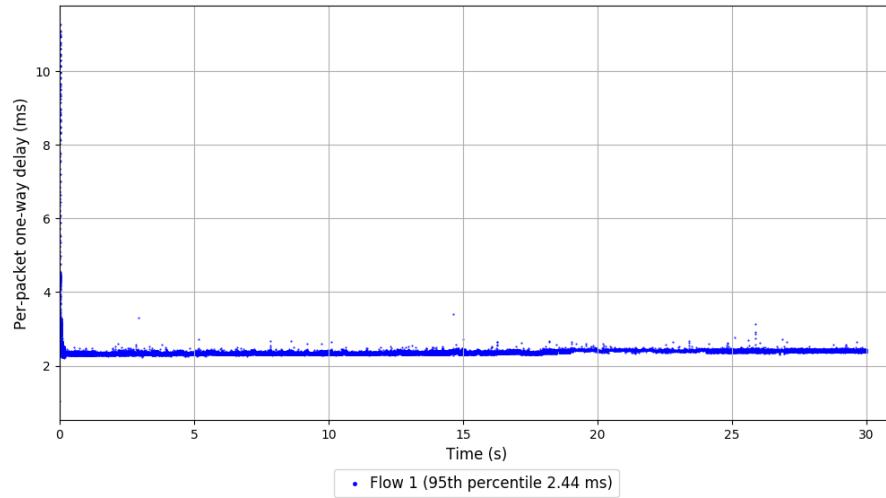
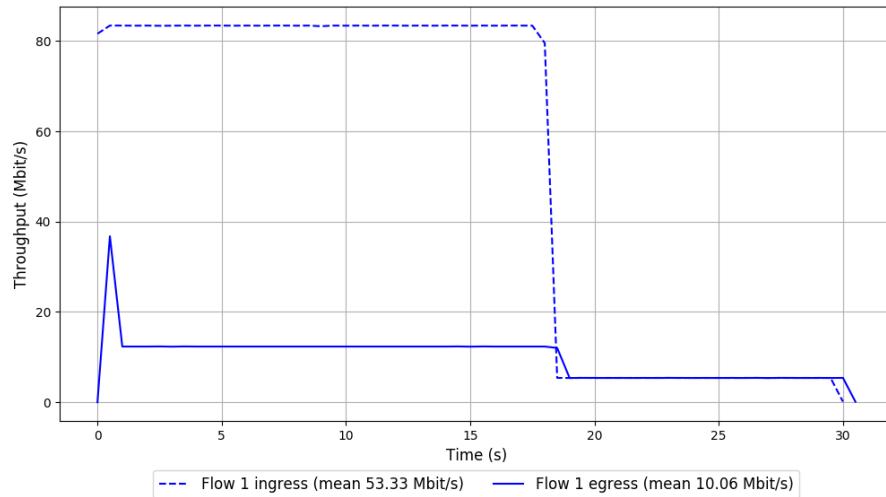


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-11-23 23:21:58
End at: 2019-11-23 23:22:28
Local clock offset: -13.508 ms
Remote clock offset: 0.575 ms

# Below is generated by plot.py at 2019-11-24 00:36:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 2.445 ms
Loss rate: 81.14%
-- Flow 1:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 2.445 ms
Loss rate: 81.14%
```

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

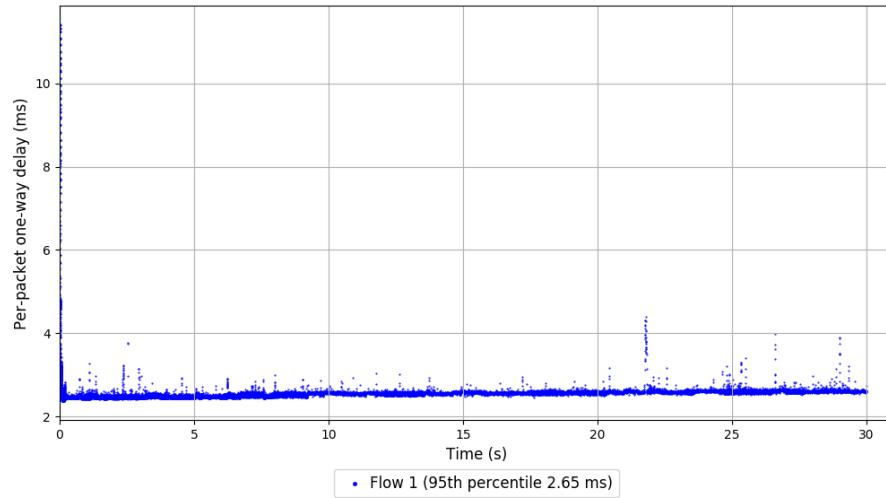
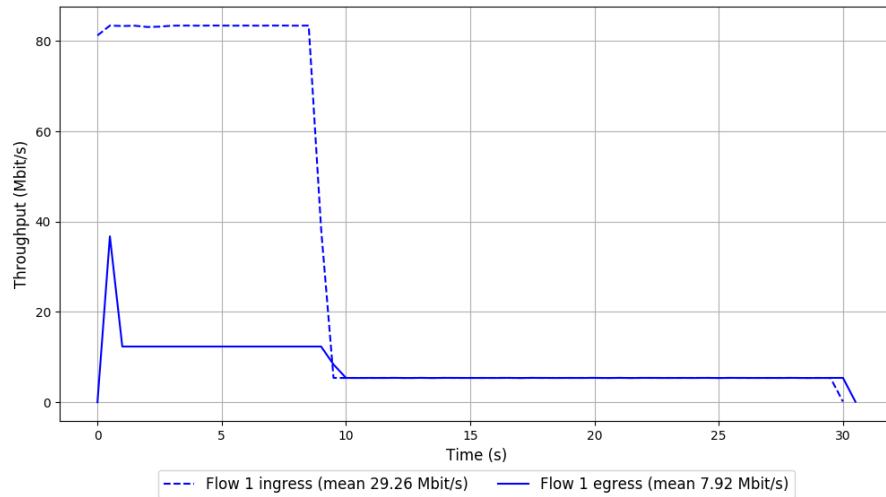


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-11-23 23:48:36
End at: 2019-11-23 23:49:06
Local clock offset: -10.964 ms
Remote clock offset: 0.322 ms

# Below is generated by plot.py at 2019-11-24 00:36:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 2.650 ms
Loss rate: 72.94%
-- Flow 1:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 2.650 ms
Loss rate: 72.94%
```

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

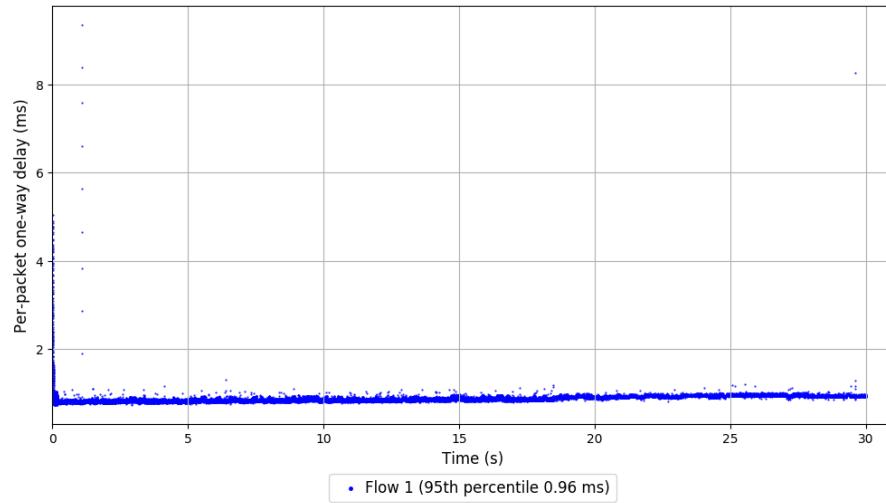
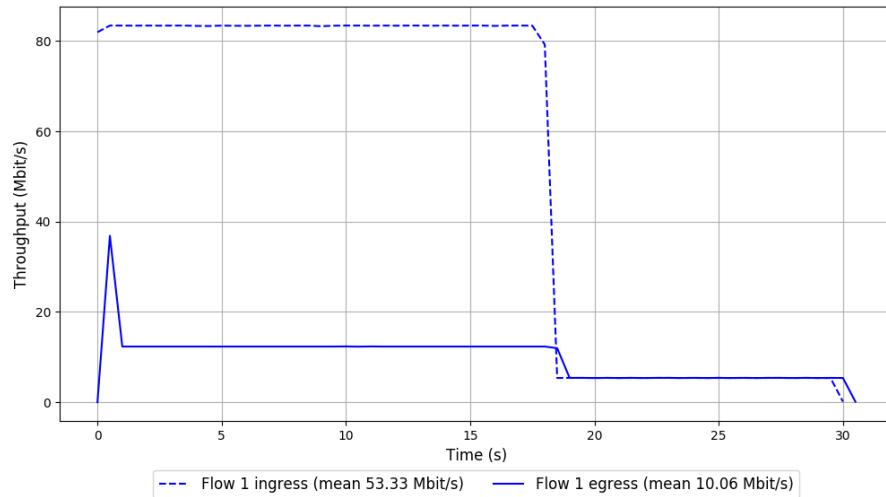


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-11-24 00:15:22
End at: 2019-11-24 00:15:52
Local clock offset: -9.235 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-11-24 00:36:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 0.957 ms
Loss rate: 81.13%
-- Flow 1:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 0.957 ms
Loss rate: 81.13%
```

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

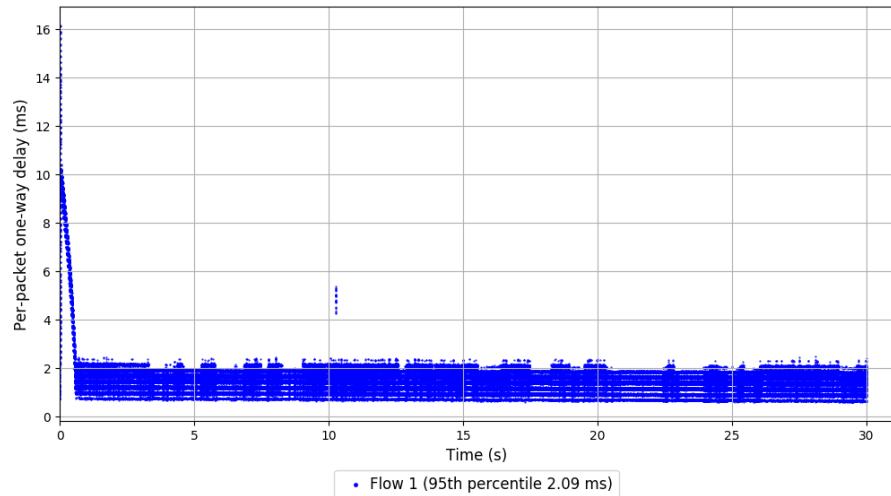
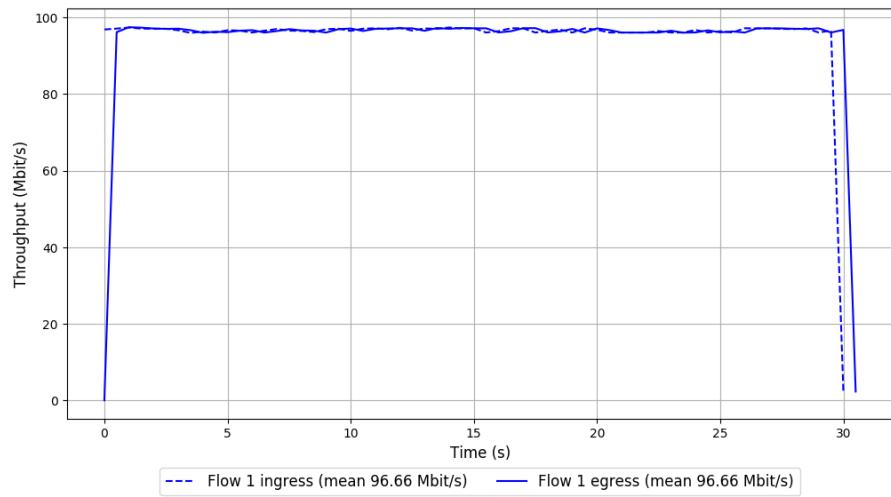


Run 1: Statistics of TCP Vegas

```
Start at: 2019-11-23 22:31:55
End at: 2019-11-23 22:32:25
Local clock offset: -10.609 ms
Remote clock offset: 0.345 ms

# Below is generated by plot.py at 2019-11-24 00:37:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.66 Mbit/s
95th percentile per-packet one-way delay: 2.086 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.66 Mbit/s
95th percentile per-packet one-way delay: 2.086 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

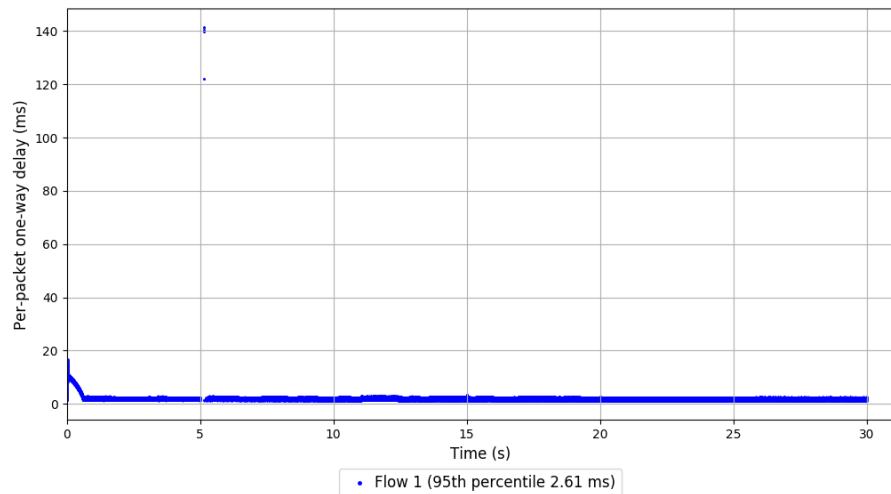
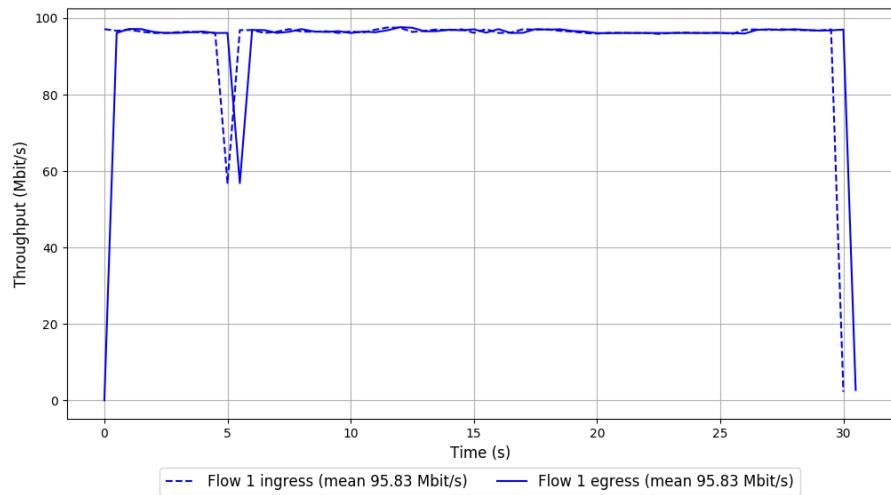


Run 2: Statistics of TCP Vegas

```
Start at: 2019-11-23 22:58:38
End at: 2019-11-23 22:59:08
Local clock offset: -16.605 ms
Remote clock offset: 0.688 ms

# Below is generated by plot.py at 2019-11-24 00:37:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 2.613 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 2.613 ms
Loss rate: 0.00%
```

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

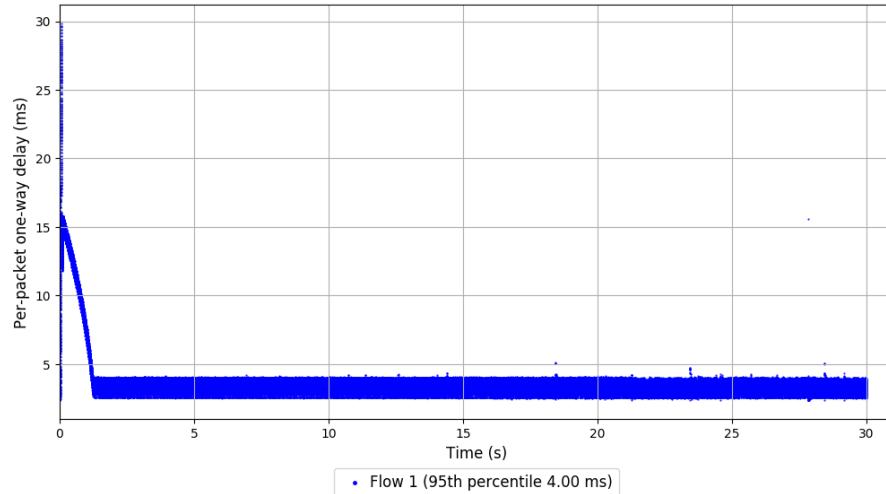
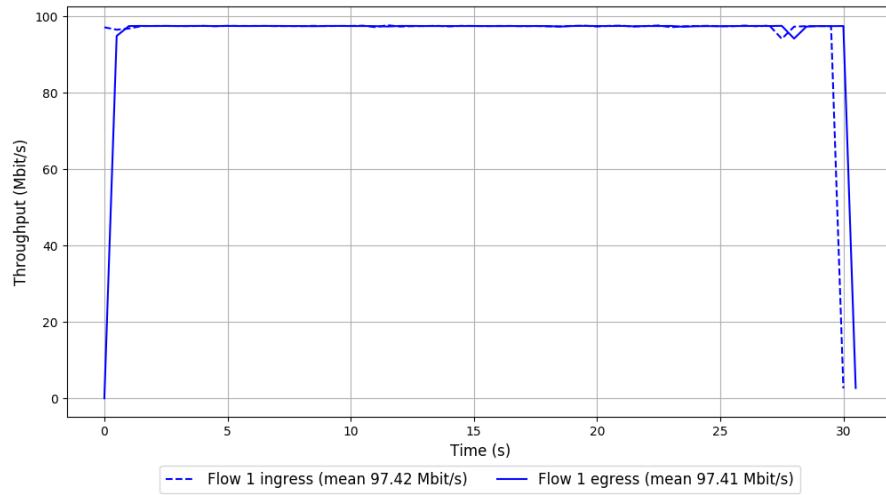


Run 3: Statistics of TCP Vegas

```
Start at: 2019-11-23 23:25:16
End at: 2019-11-23 23:25:46
Local clock offset: -13.453 ms
Remote clock offset: 0.643 ms

# Below is generated by plot.py at 2019-11-24 00:37:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 3.995 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 3.995 ms
Loss rate: 0.01%
```

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

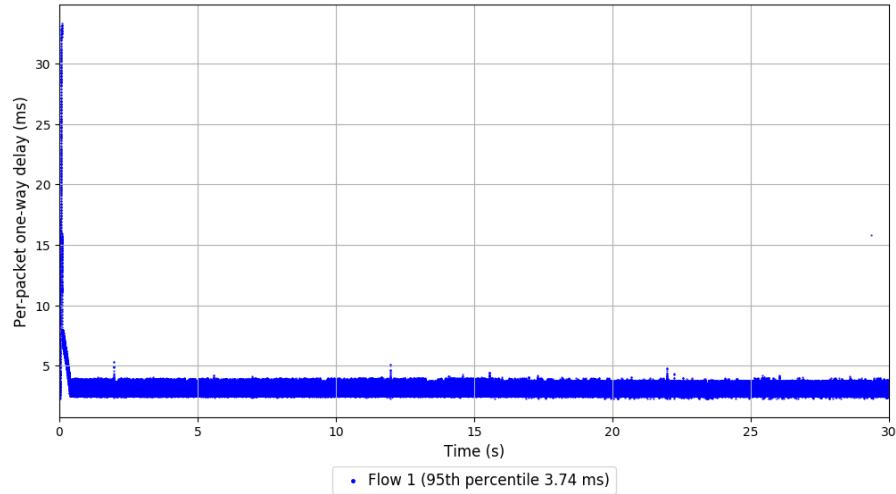
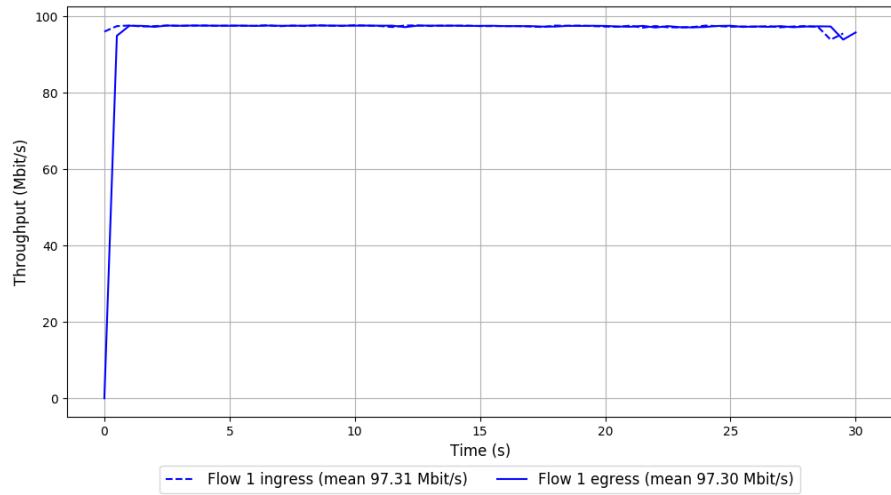


Run 4: Statistics of TCP Vegas

```
Start at: 2019-11-23 23:51:53
End at: 2019-11-23 23:52:23
Local clock offset: -10.438 ms
Remote clock offset: 0.21 ms

# Below is generated by plot.py at 2019-11-24 00:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 3.737 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 3.737 ms
Loss rate: 0.01%
```

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

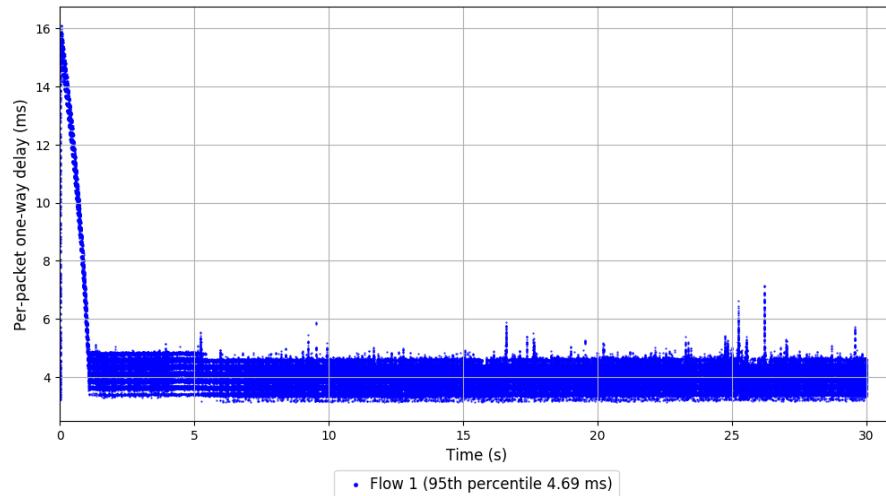
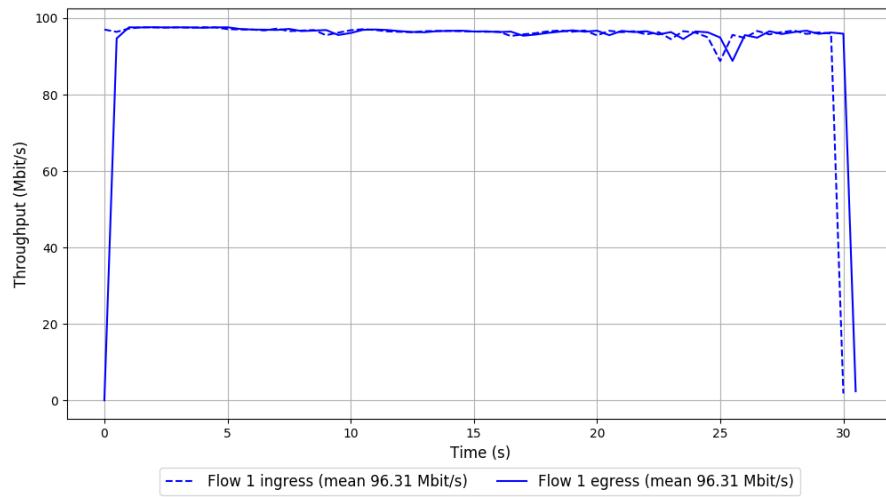


Run 5: Statistics of TCP Vegas

```
Start at: 2019-11-24 00:18:40
End at: 2019-11-24 00:19:10
Local clock offset: -9.505 ms
Remote clock offset: 0.099 ms

# Below is generated by plot.py at 2019-11-24 00:37:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 4.691 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 4.691 ms
Loss rate: 0.00%
```

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

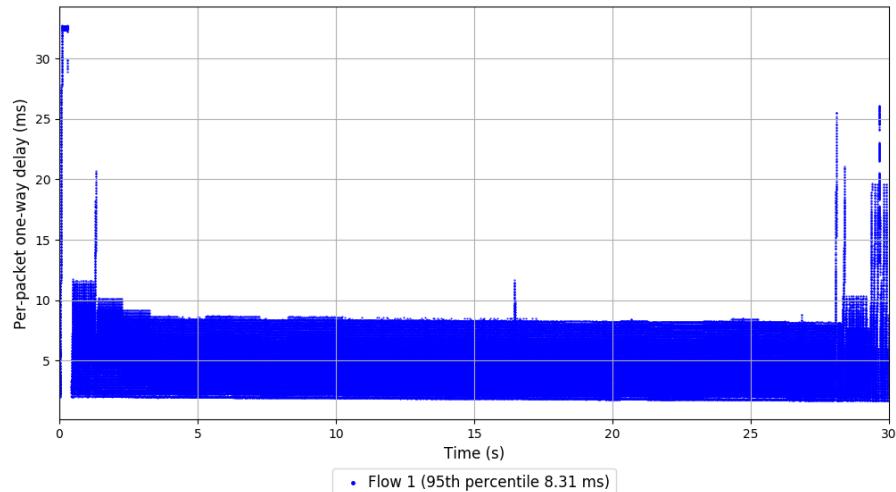
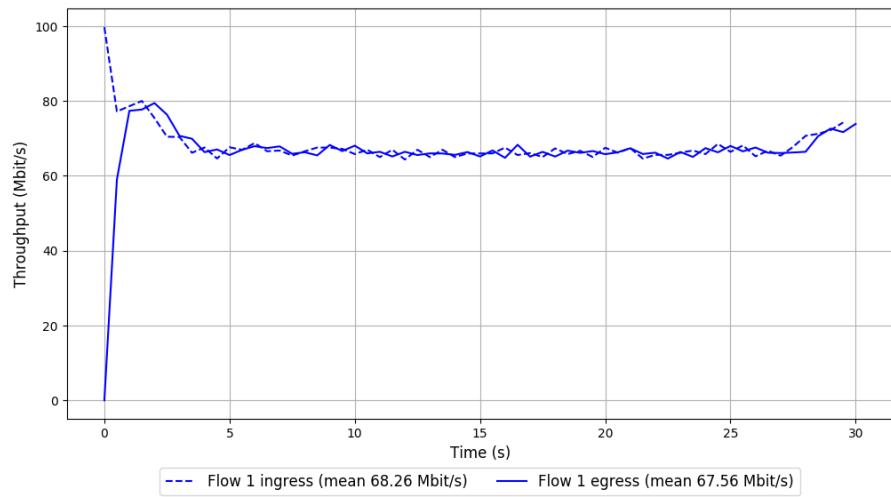


Run 1: Statistics of Verus

```
Start at: 2019-11-23 22:23:00
End at: 2019-11-23 22:23:30
Local clock offset: -9.842 ms
Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2019-11-24 00:37:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.56 Mbit/s
95th percentile per-packet one-way delay: 8.307 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 67.56 Mbit/s
95th percentile per-packet one-way delay: 8.307 ms
Loss rate: 1.01%
```

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

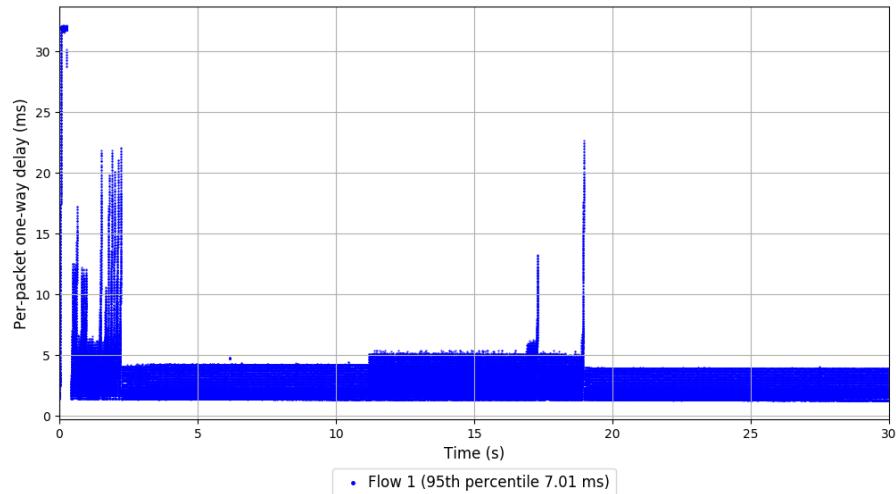
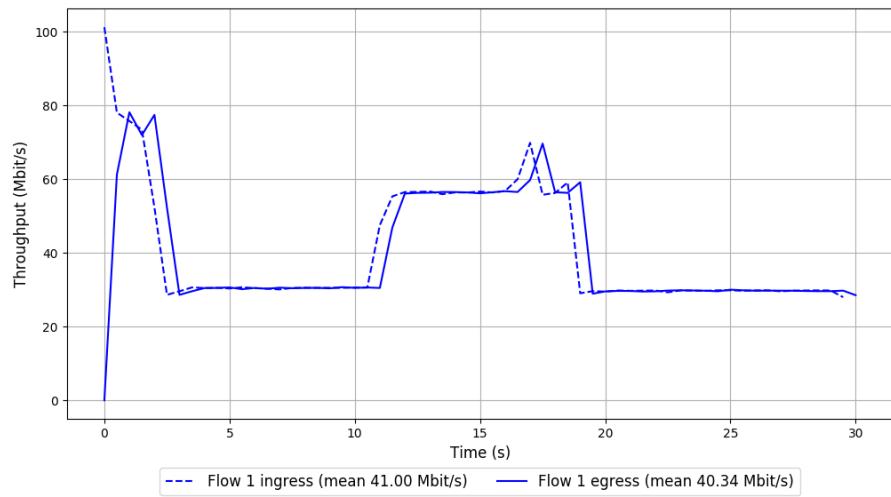


Run 2: Statistics of Verus

```
Start at: 2019-11-23 22:49:47
End at: 2019-11-23 22:50:17
Local clock offset: -13.852 ms
Remote clock offset: 0.498 ms

# Below is generated by plot.py at 2019-11-24 00:37:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.34 Mbit/s
95th percentile per-packet one-way delay: 7.013 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 40.34 Mbit/s
95th percentile per-packet one-way delay: 7.013 ms
Loss rate: 1.61%
```

## Run 2: Report of Verus — Data Link

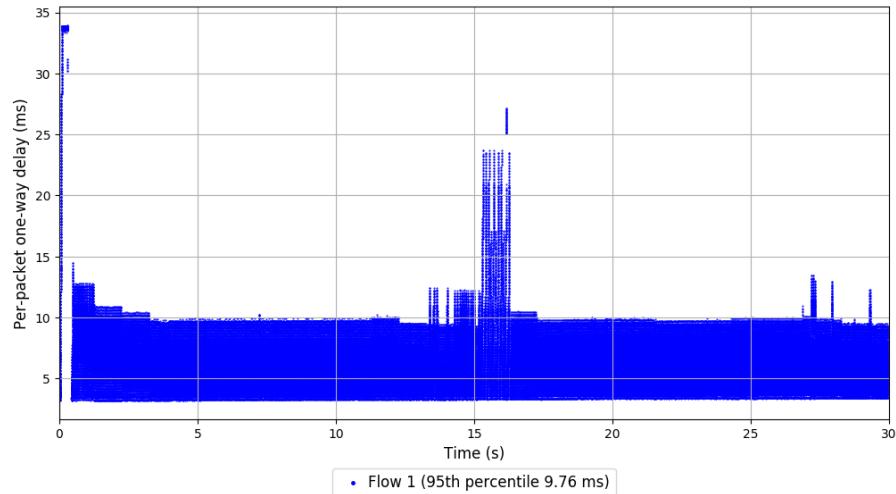
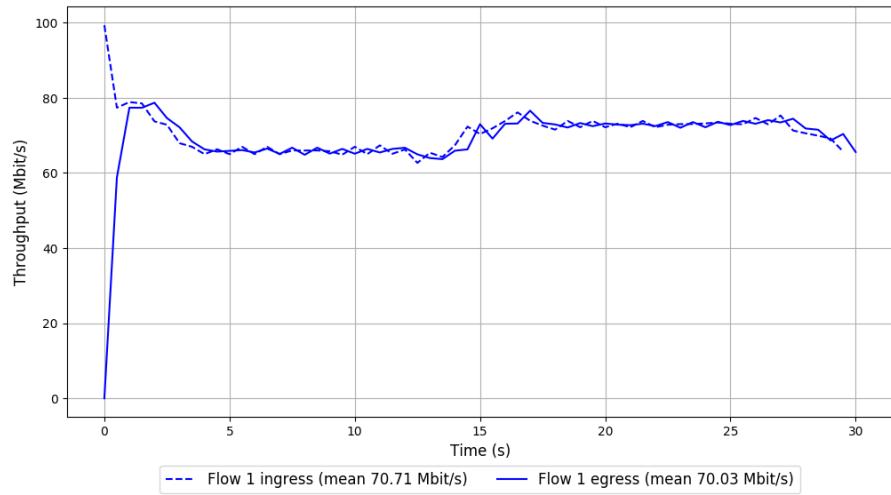


Run 3: Statistics of Verus

```
Start at: 2019-11-23 23:16:23
End at: 2019-11-23 23:16:53
Local clock offset: -15.712 ms
Remote clock offset: 0.699 ms

# Below is generated by plot.py at 2019-11-24 00:37:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.03 Mbit/s
95th percentile per-packet one-way delay: 9.758 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 70.03 Mbit/s
95th percentile per-packet one-way delay: 9.758 ms
Loss rate: 0.96%
```

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

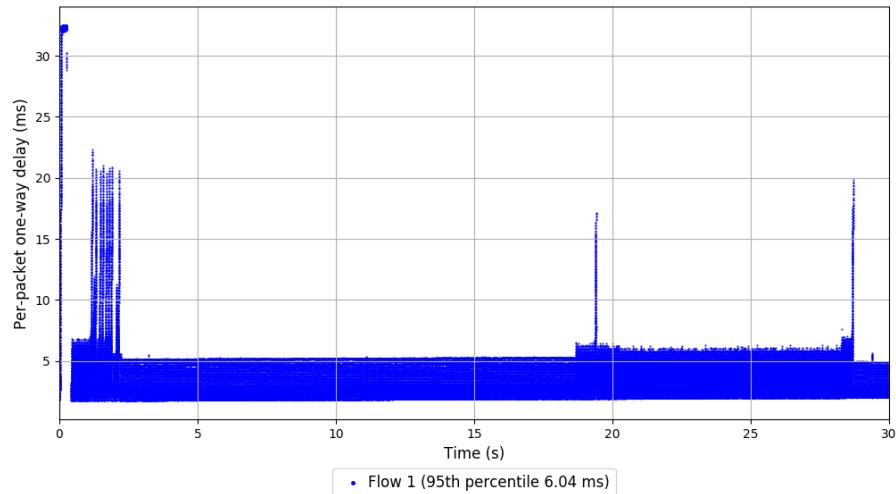
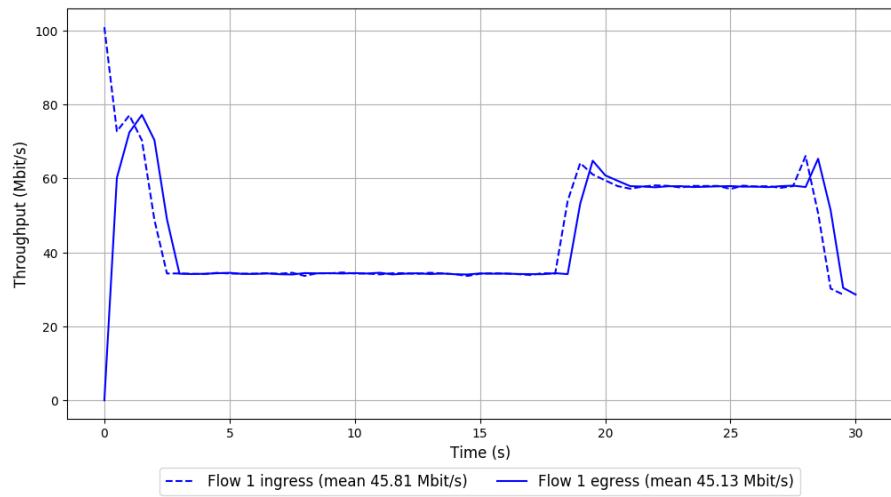


Run 4: Statistics of Verus

```
Start at: 2019-11-23 23:43:01
End at: 2019-11-23 23:43:31
Local clock offset: -13.97 ms
Remote clock offset: 0.333 ms

# Below is generated by plot.py at 2019-11-24 00:38:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.13 Mbit/s
95th percentile per-packet one-way delay: 6.036 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 45.13 Mbit/s
95th percentile per-packet one-way delay: 6.036 ms
Loss rate: 1.48%
```

## Run 4: Report of Verus — Data Link

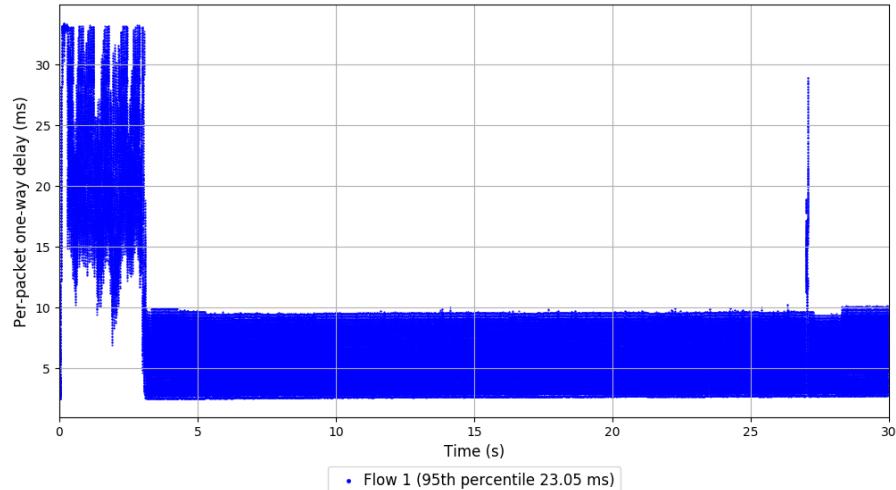
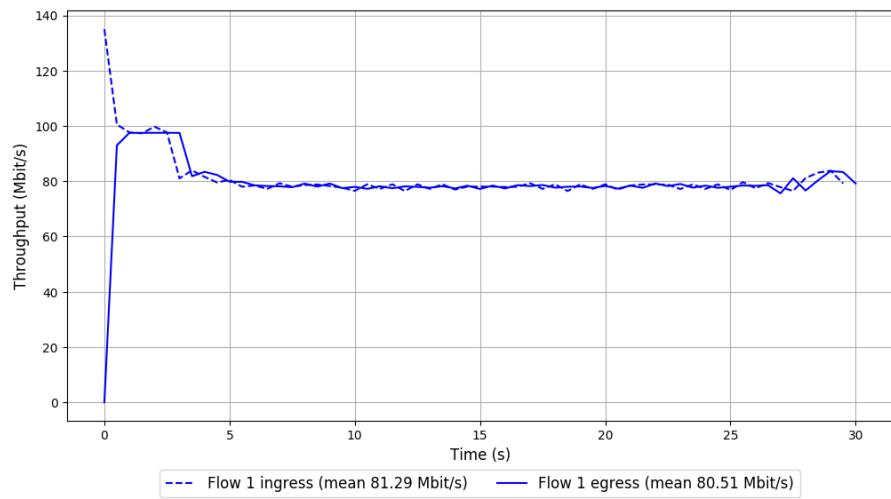


Run 5: Statistics of Verus

```
Start at: 2019-11-24 00:09:41
End at: 2019-11-24 00:10:11
Local clock offset: -11.18 ms
Remote clock offset: 0.128 ms

# Below is generated by plot.py at 2019-11-24 00:38:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.51 Mbit/s
95th percentile per-packet one-way delay: 23.046 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 80.51 Mbit/s
95th percentile per-packet one-way delay: 23.046 ms
Loss rate: 0.96%
```

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

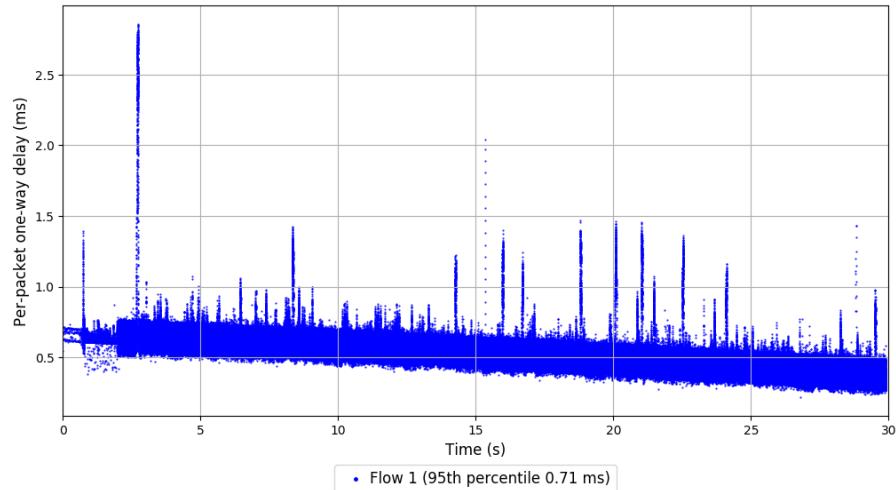
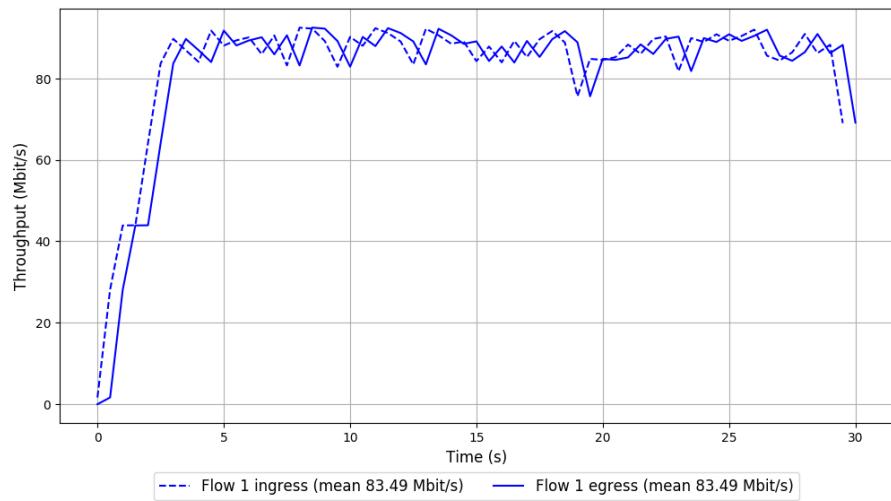


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-11-23 22:15:15
End at: 2019-11-23 22:15:45
Local clock offset: -7.856 ms
Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2019-11-24 00:38:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.49 Mbit/s
95th percentile per-packet one-way delay: 0.714 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.49 Mbit/s
95th percentile per-packet one-way delay: 0.714 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

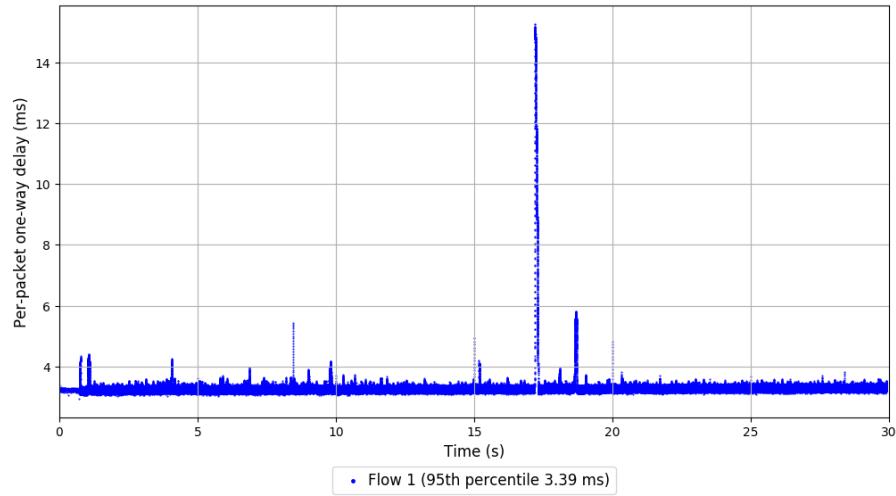
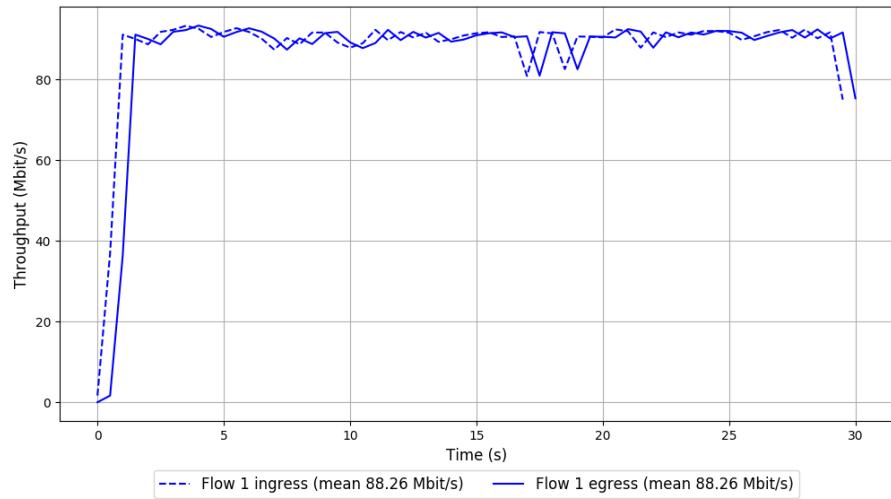


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-11-23 22:42:01
End at: 2019-11-23 22:42:31
Local clock offset: -13.499 ms
Remote clock offset: 0.434 ms

# Below is generated by plot.py at 2019-11-24 00:38:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.26 Mbit/s
95th percentile per-packet one-way delay: 3.394 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.26 Mbit/s
95th percentile per-packet one-way delay: 3.394 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Vivace — Data Link

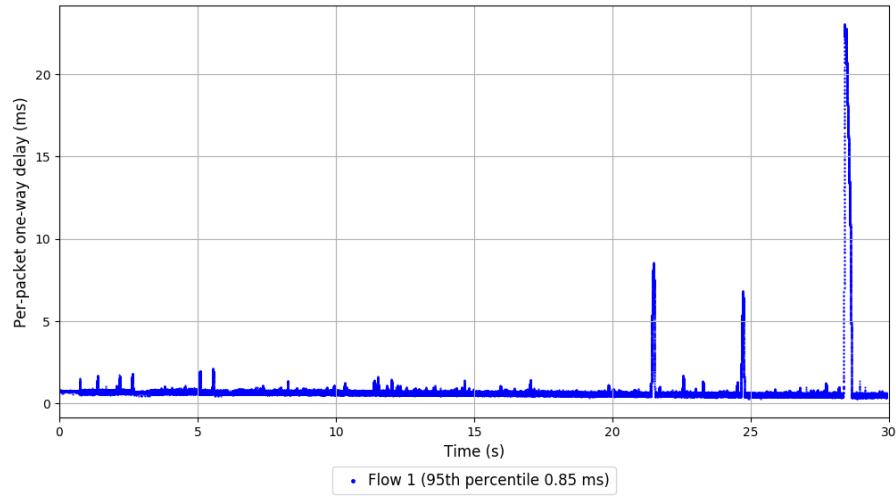
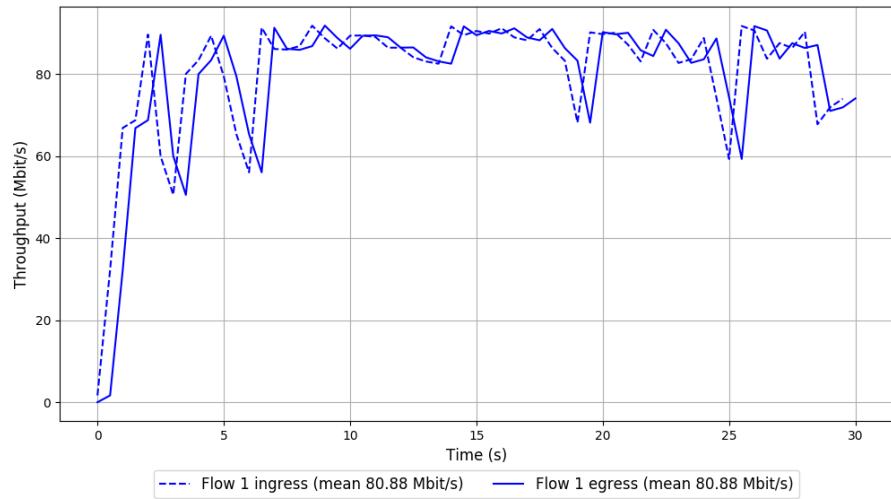


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-11-23 23:08:39
End at: 2019-11-23 23:09:09
Local clock offset: -20.352 ms
Remote clock offset: 0.787 ms

# Below is generated by plot.py at 2019-11-24 00:38:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.88 Mbit/s
95th percentile per-packet one-way delay: 0.849 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.88 Mbit/s
95th percentile per-packet one-way delay: 0.849 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

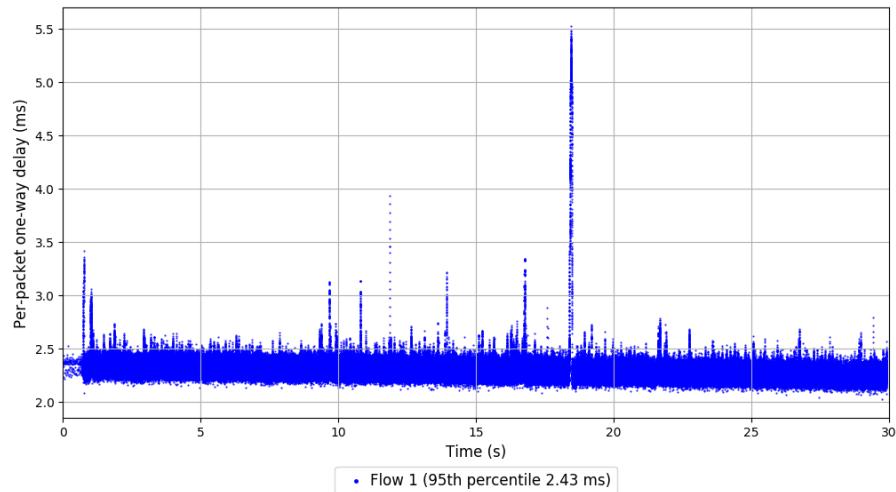
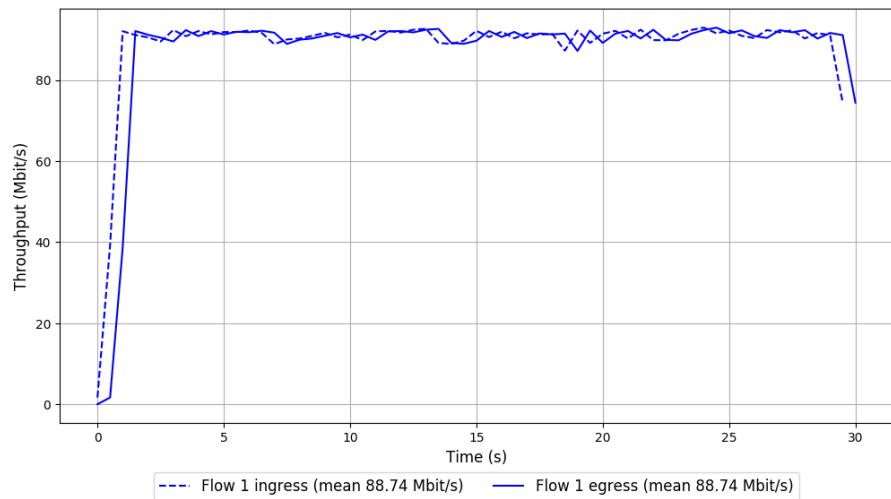


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-11-23 23:35:17
End at: 2019-11-23 23:35:47
Local clock offset: -14.739 ms
Remote clock offset: 0.499 ms

# Below is generated by plot.py at 2019-11-24 00:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 2.431 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 2.431 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Vivace — Data Link

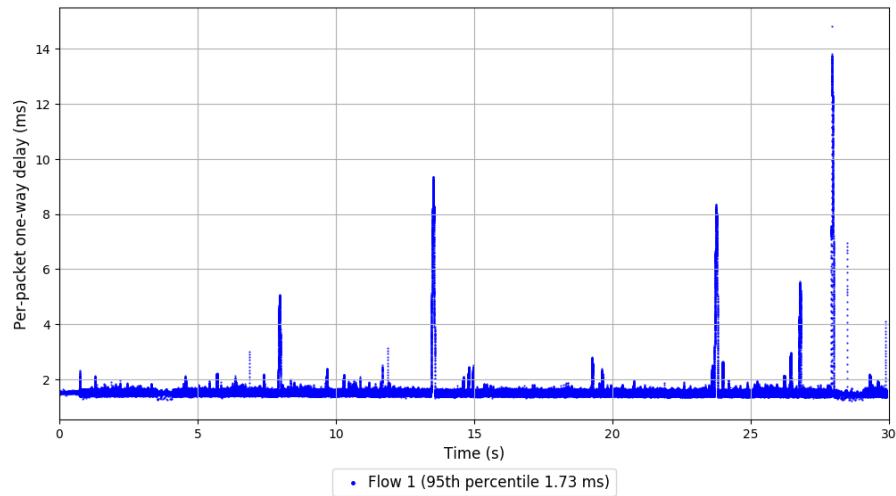
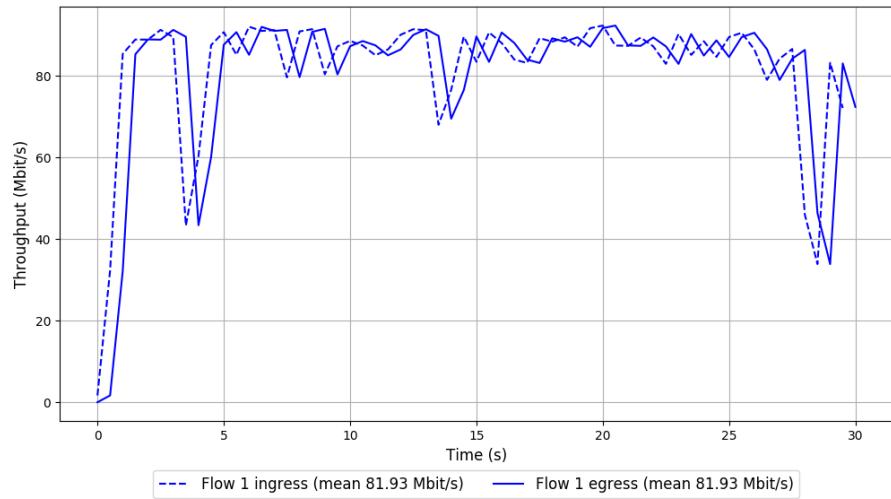


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-11-24 00:01:54
End at: 2019-11-24 00:02:24
Local clock offset: -11.173 ms
Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2019-11-24 00:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.93 Mbit/s
95th percentile per-packet one-way delay: 1.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.93 Mbit/s
95th percentile per-packet one-way delay: 1.726 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

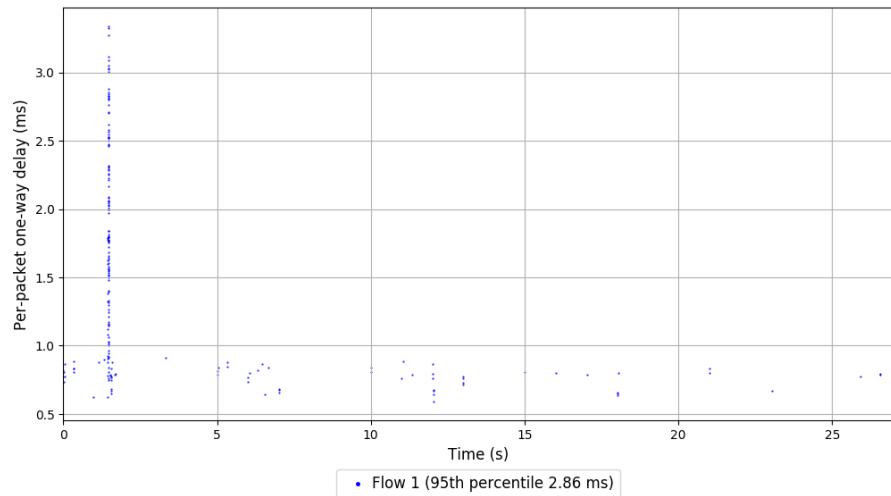
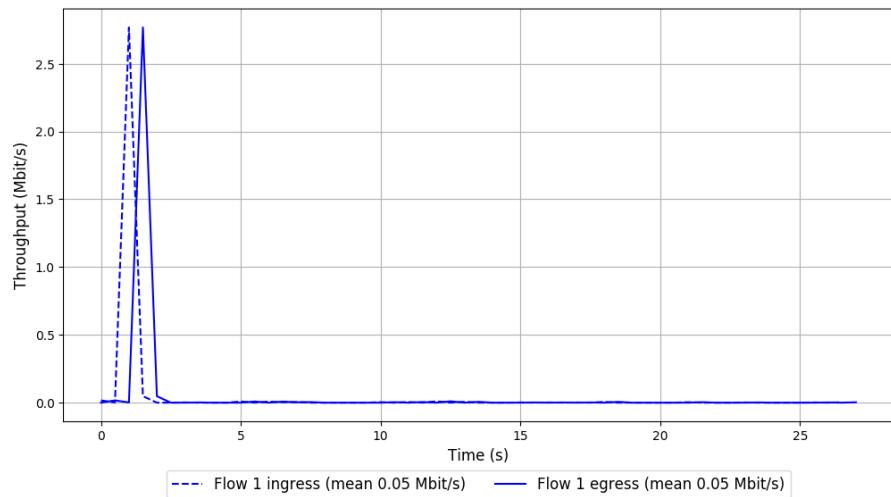


```
Run 1: Statistics of WebRTC media

Start at: 2019-11-23 22:19:44
End at: 2019-11-23 22:20:14
Local clock offset: -9.011 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2019-11-24 00:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.856 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.856 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

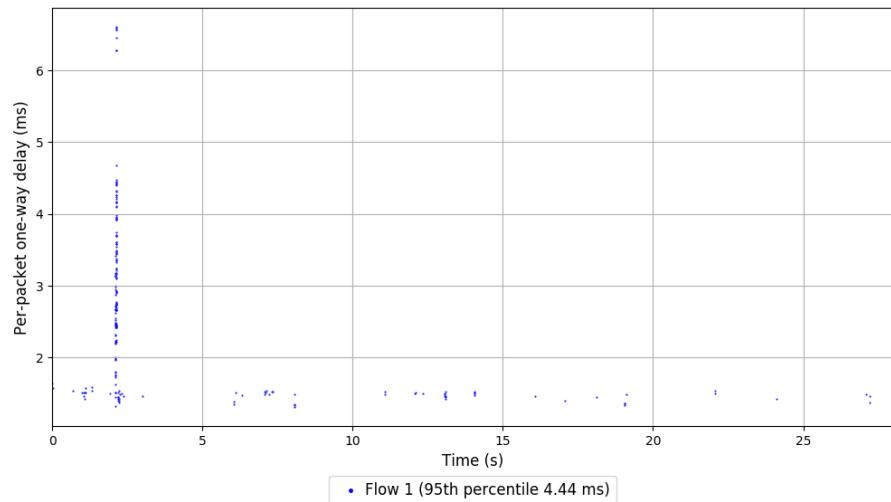
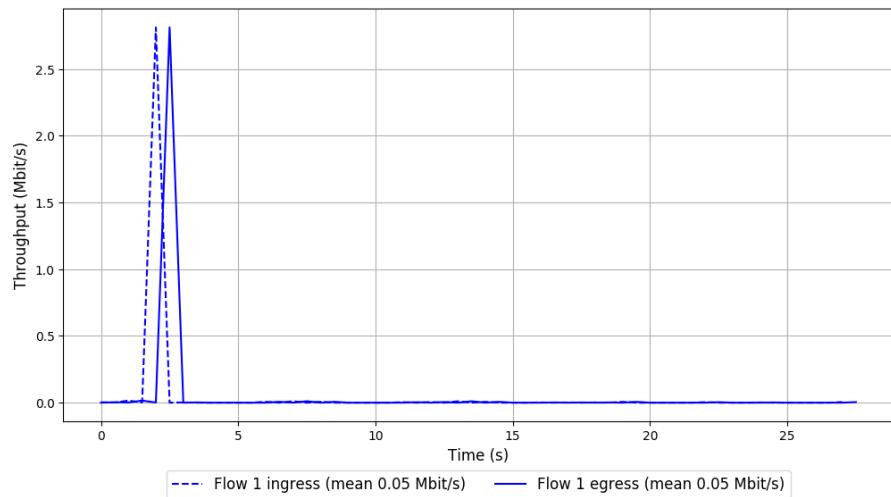


Run 2: Statistics of WebRTC media

```
Start at: 2019-11-23 22:46:31
End at: 2019-11-23 22:47:01
Local clock offset: -13.272 ms
Remote clock offset: 0.518 ms

# Below is generated by plot.py at 2019-11-24 00:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.440 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.440 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

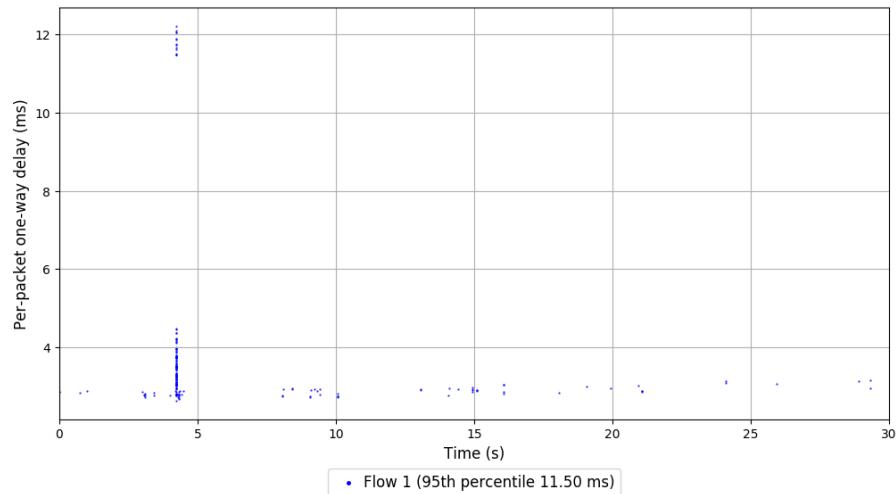
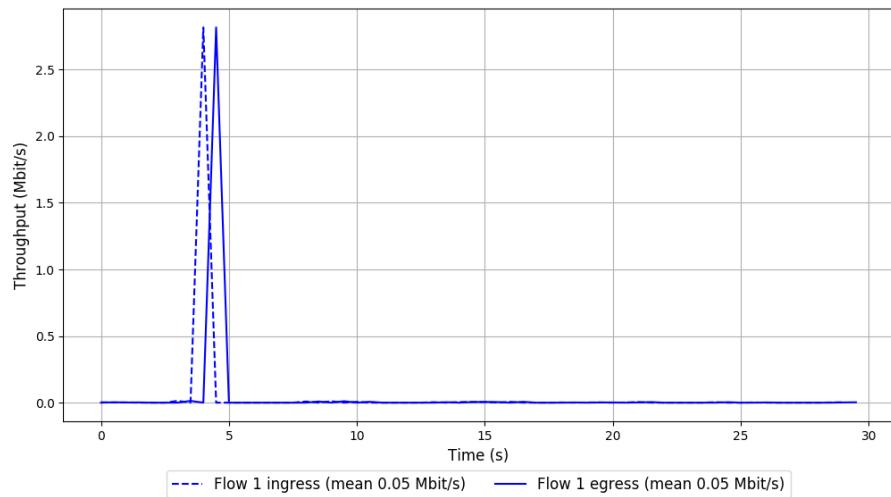


Run 3: Statistics of WebRTC media

```
Start at: 2019-11-23 23:13:07
End at: 2019-11-23 23:13:37
Local clock offset: -17.187 ms
Remote clock offset: 0.683 ms

# Below is generated by plot.py at 2019-11-24 00:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 11.499 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 11.499 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

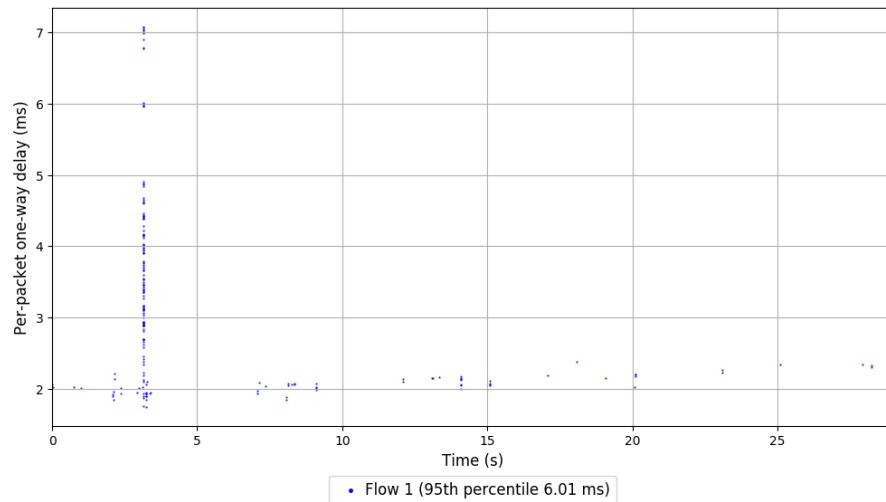
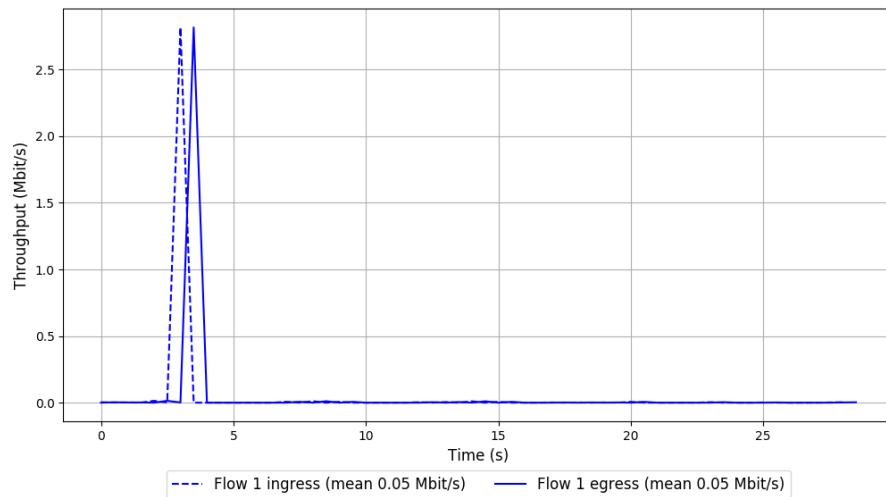


Run 4: Statistics of WebRTC media

```
Start at: 2019-11-23 23:39:45
End at: 2019-11-23 23:40:15
Local clock offset: -16.291 ms
Remote clock offset: 0.455 ms

# Below is generated by plot.py at 2019-11-24 00:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 6.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 6.006 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-11-24 00:06:25
End at: 2019-11-24 00:06:55
Local clock offset: -11.562 ms
Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2019-11-24 00:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 4.466 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 4.466 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

