

## Pantheon Report

Generated at 2020-02-18 00:15:02 (UTC).  
Data path: AWS California 2 on `ens5` (*local*) → Mexico on `em1` (*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 `time.stanford.edu` and have been applied to correct the timestamps in logs.

System info:

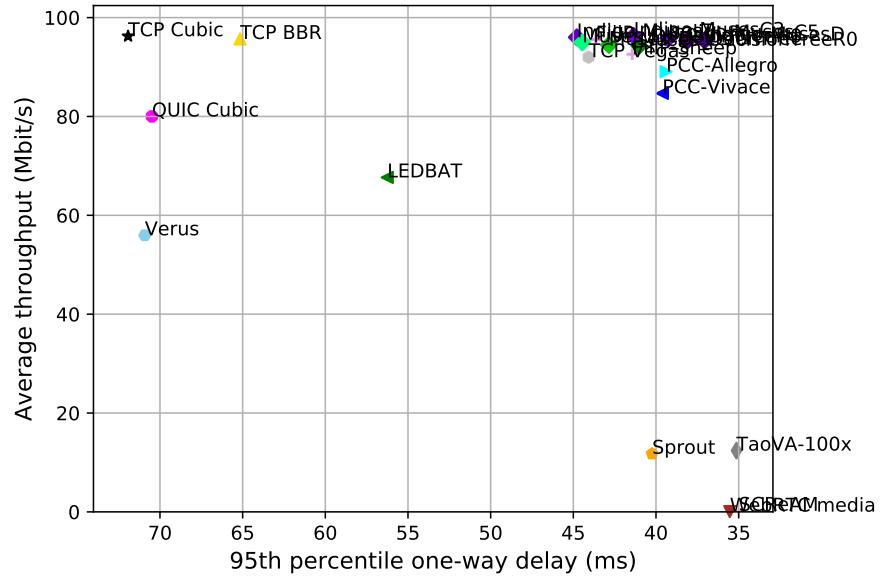
```
Linux 4.15.0-1056-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

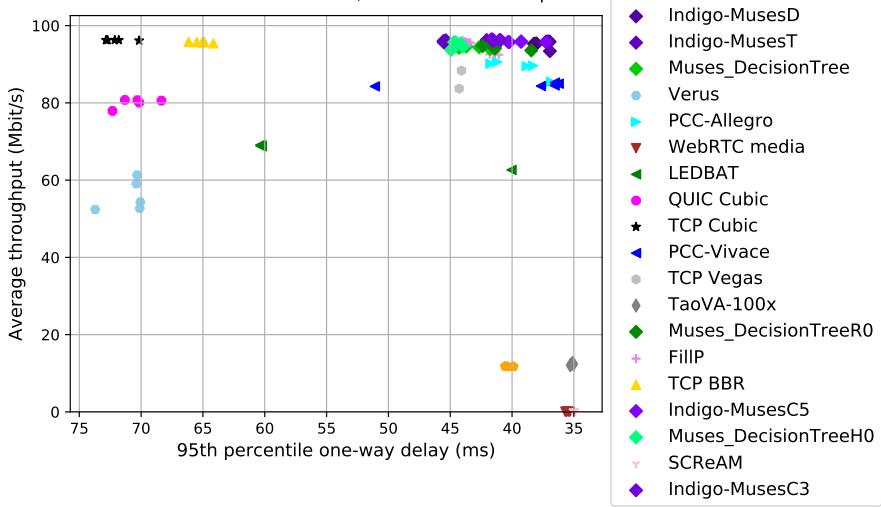
```
branch: muses @ de42328552b3776a75a932a94dfaf722537b0ec
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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

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



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



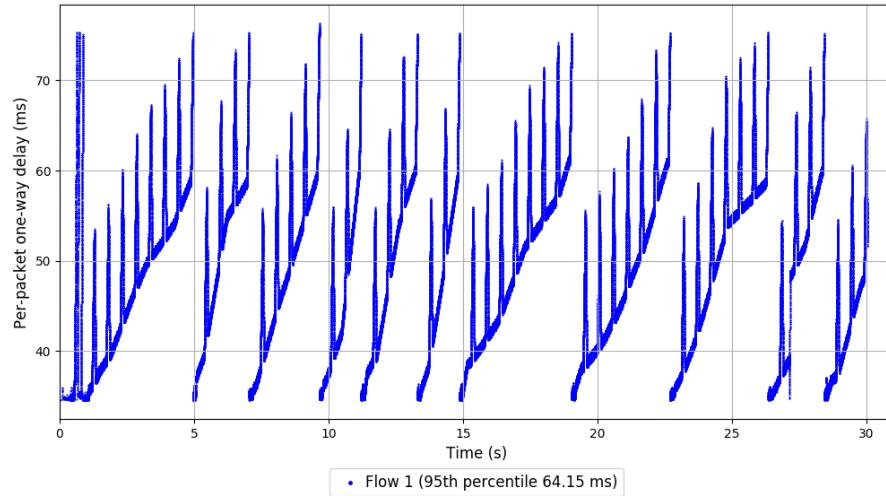
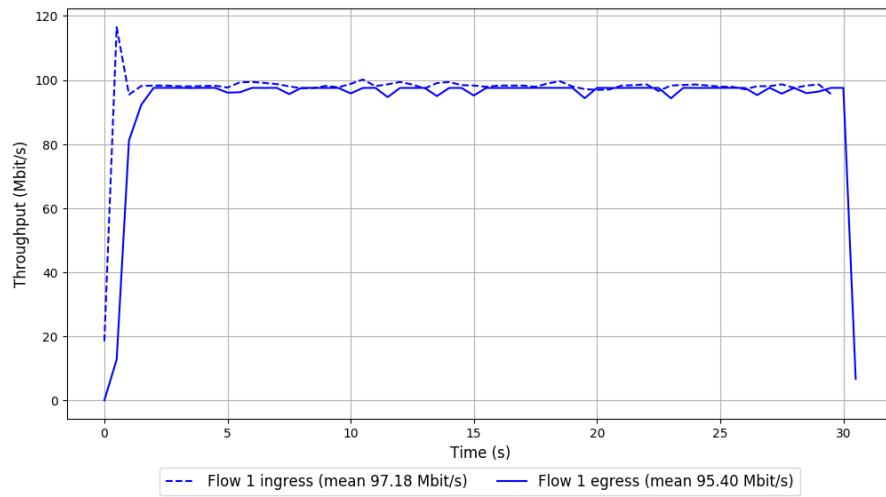
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	95.67	65.15	1.80
Copa	0	N/A	N/A	N/A
TCP Cubic	5	96.24	71.93	0.41
FillP	5	95.57	43.64	0.65
FillP-Sheep	5	92.60	41.44	0.61
Indigo	5	95.31	38.11	0.00
Indigo-MusesC3	5	96.29	41.35	0.05
Indigo-MusesC5	5	95.79	39.26	0.01
Indigo-MusesD	5	95.38	37.06	0.00
Indigo-MusesT	5	96.01	44.79	0.72
LEDBAT	5	67.67	56.26	0.00
Muses_DecisionTree	5	94.47	42.85	0.05
Muses_DecisionTreeH0	5	94.99	44.45	0.12
Muses_DecisionTreeR0	5	94.31	41.01	0.06
PCC-Allegro	5	89.06	39.39	0.74
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	80.01	70.49	1.74
SCReAM	5	0.21	34.99	0.00
Sprout	5	11.76	40.23	0.00
TaoVA-100x	5	12.40	35.14	66.36
TCP Vegas	5	91.99	44.08	0.28
Verus	5	55.96	70.92	28.54
PCC-Vivace	5	84.68	39.62	0.00
WebRTC media	5	0.05	35.54	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2020-02-17 21:48:20
End at: 2020-02-17 21:48:50
Local clock offset: 4.735 ms
Remote clock offset: 5.732 ms

# Below is generated by plot.py at 2020-02-18 00:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.40 Mbit/s
95th percentile per-packet one-way delay: 64.152 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 95.40 Mbit/s
95th percentile per-packet one-way delay: 64.152 ms
Loss rate: 1.77%
```

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

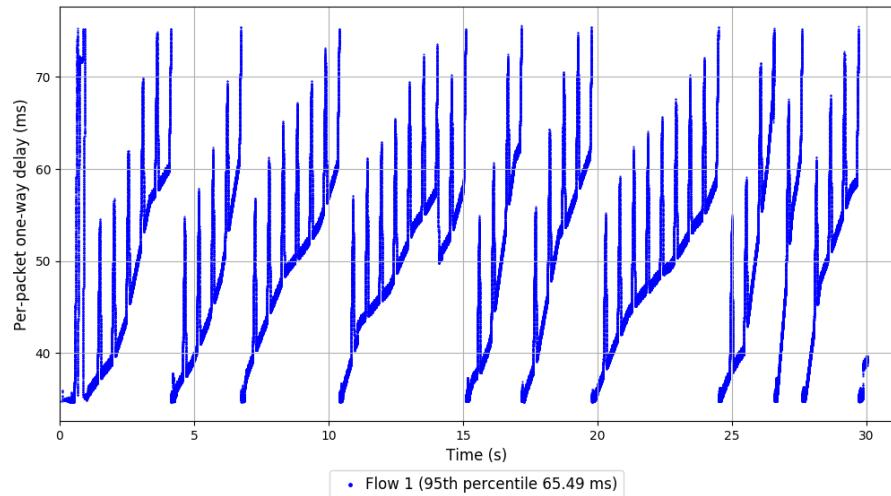
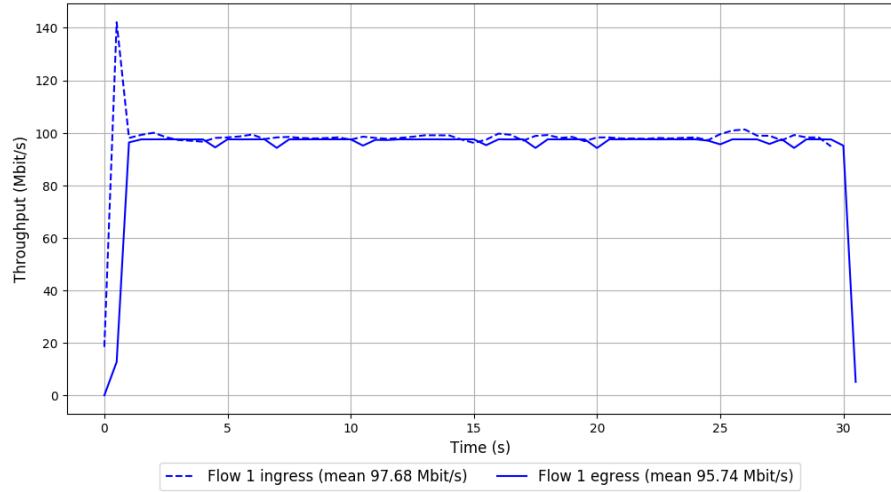


Run 2: Statistics of TCP BBR

```
Start at: 2020-02-17 22:20:06
End at: 2020-02-17 22:20:36
Local clock offset: 5.801 ms
Remote clock offset: 6.256 ms

# Below is generated by plot.py at 2020-02-18 00:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 65.494 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 65.494 ms
Loss rate: 1.97%
```

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

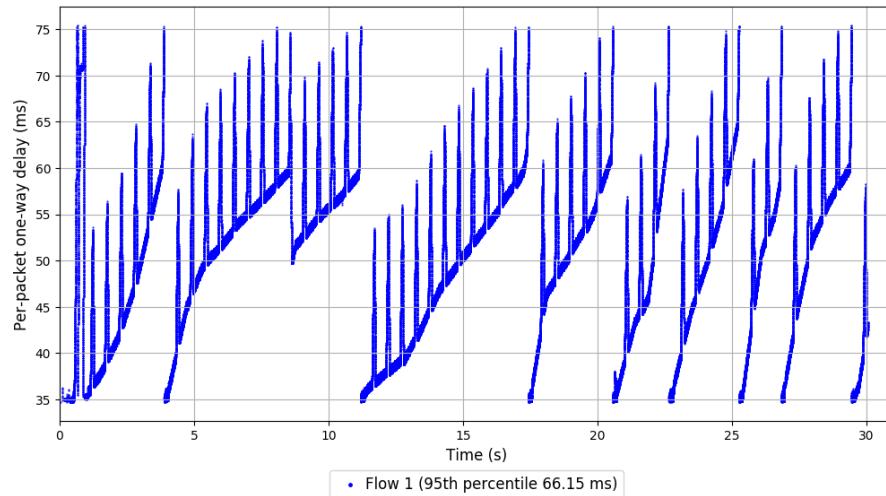
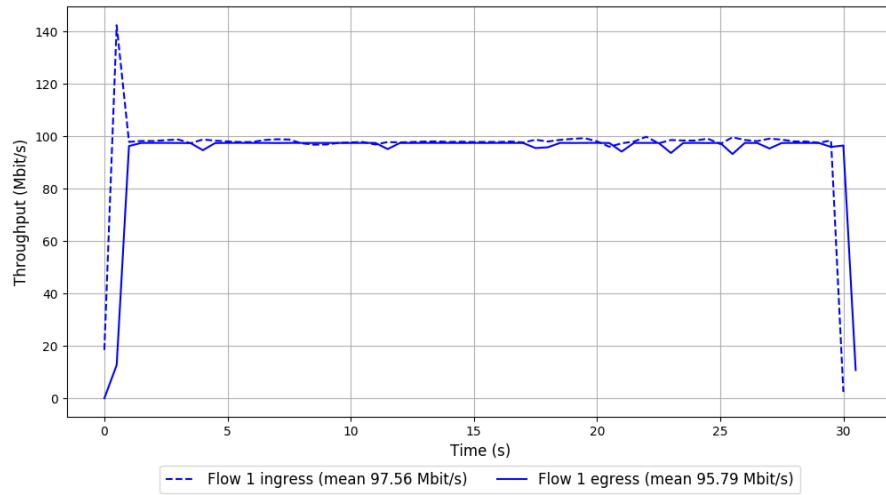


Run 3: Statistics of TCP BBR

```
Start at: 2020-02-17 22:49:20
End at: 2020-02-17 22:49:50
Local clock offset: 5.766 ms
Remote clock offset: 5.832 ms

# Below is generated by plot.py at 2020-02-18 00:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 66.153 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 66.153 ms
Loss rate: 1.78%
```

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

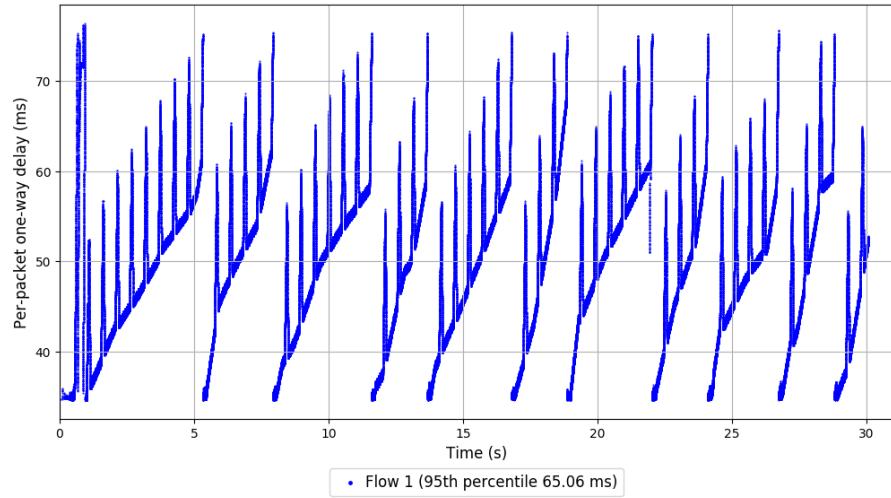
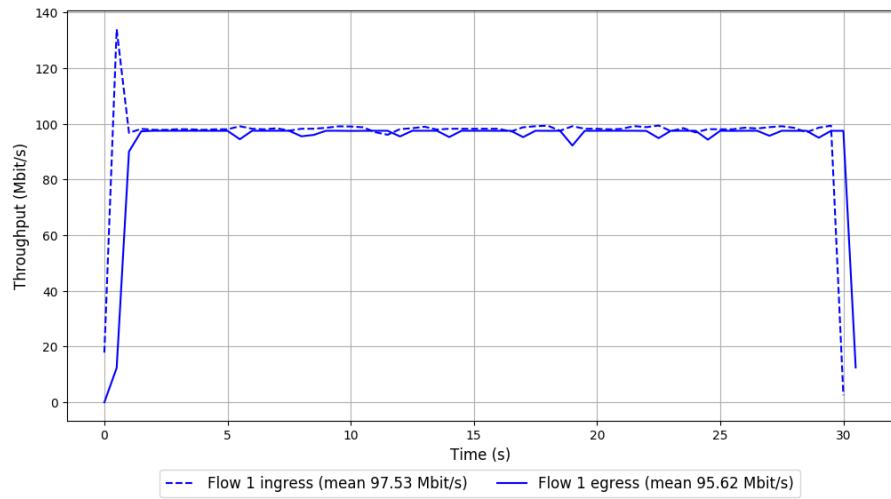


Run 4: Statistics of TCP BBR

```
Start at: 2020-02-17 23:19:09
End at: 2020-02-17 23:19:39
Local clock offset: 3.846 ms
Remote clock offset: 5.674 ms

# Below is generated by plot.py at 2020-02-18 00:03:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 65.060 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 65.060 ms
Loss rate: 1.90%
```

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

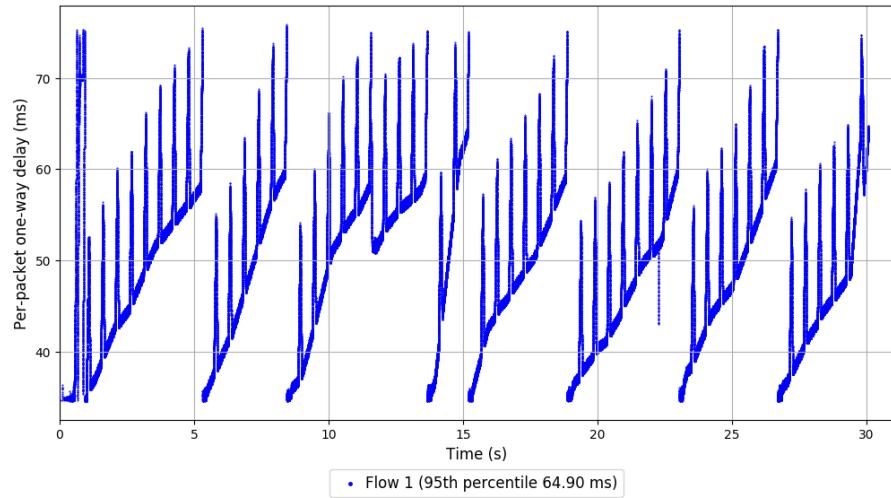
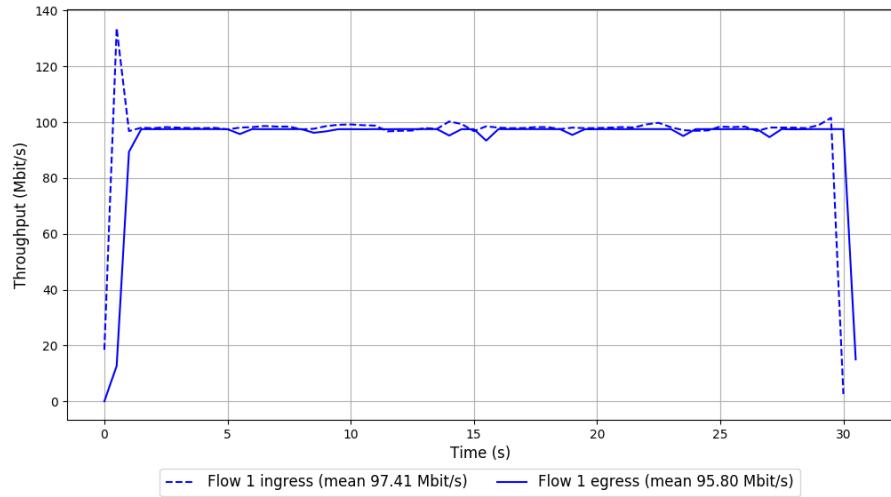


Run 5: Statistics of TCP BBR

```
Start at: 2020-02-17 23:49:13
End at: 2020-02-17 23:49:43
Local clock offset: 4.659 ms
Remote clock offset: 5.519 ms

# Below is generated by plot.py at 2020-02-18 00:03:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 64.897 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 64.897 ms
Loss rate: 1.56%
```

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



Run 1: Statistics of Copa

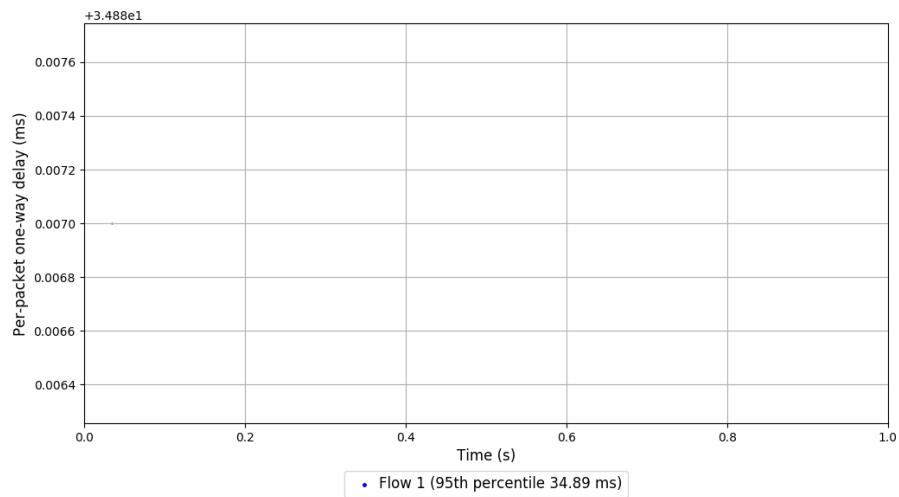
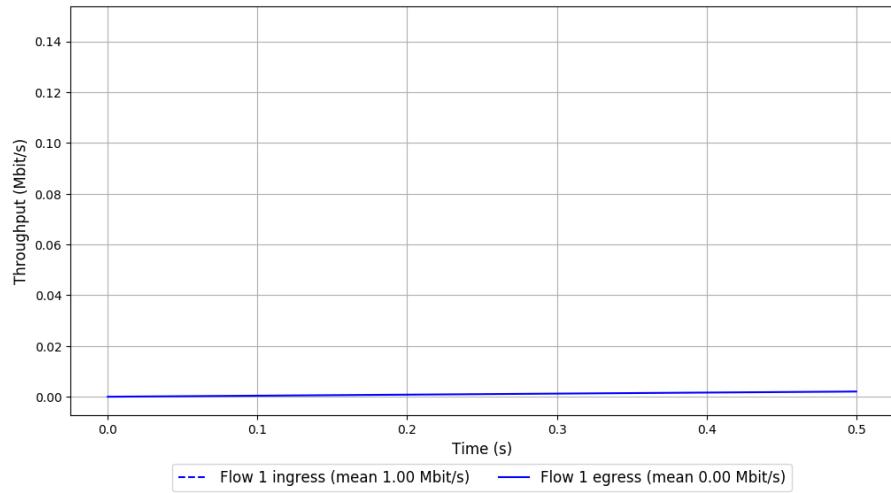
Start at: 2020-02-17 21:42:15

End at: 2020-02-17 21:42:45

Local clock offset: 4.552 ms

Remote clock offset: 5.771 ms

## Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

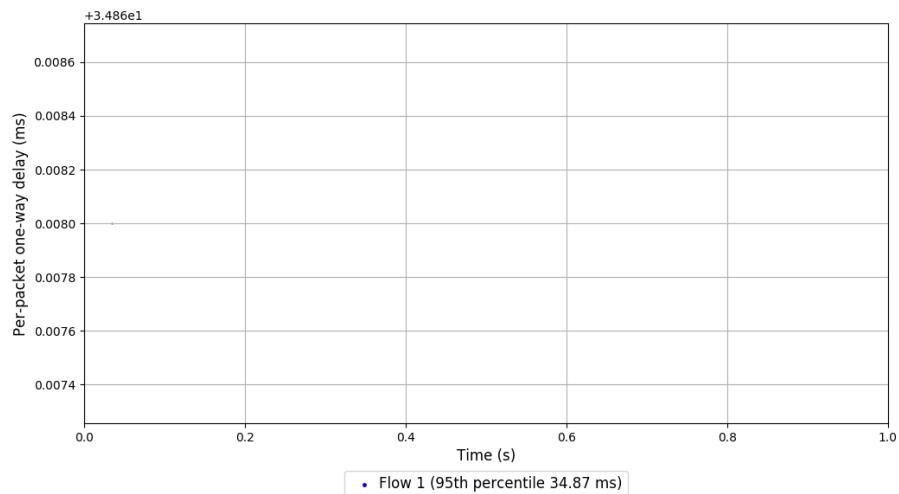
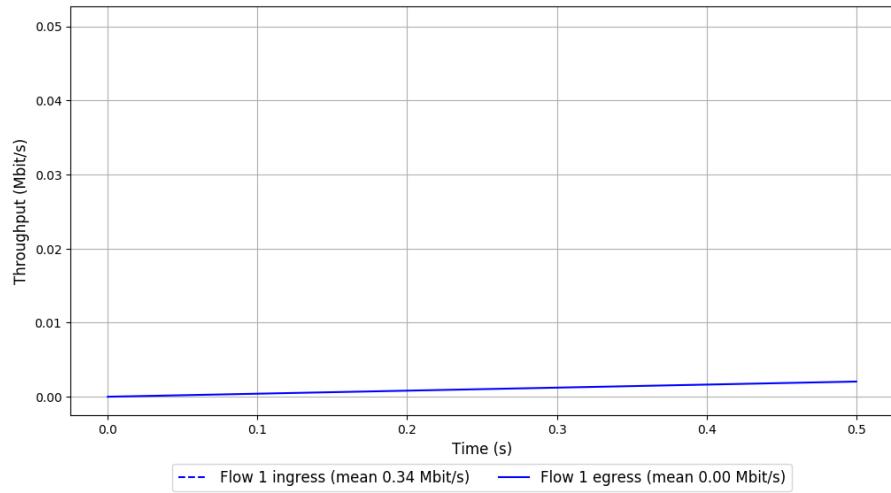
Start at: 2020-02-17 22:14:08

End at: 2020-02-17 22:14:38

Local clock offset: 5.511 ms

Remote clock offset: 6.131 ms

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

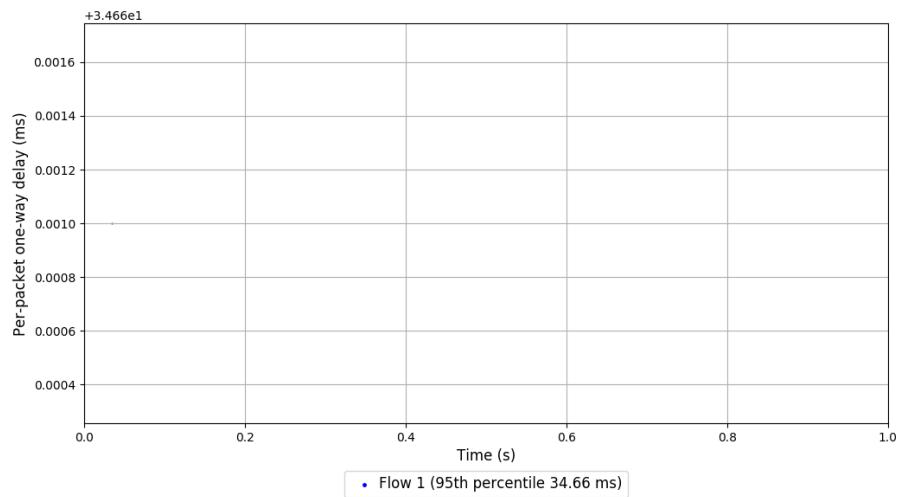
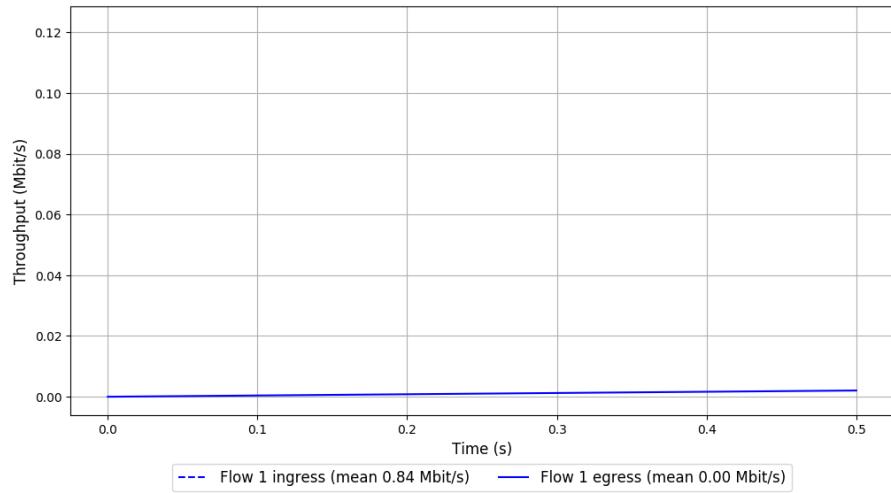
Start at: 2020-02-17 22:43:33

End at: 2020-02-17 22:44:03

Local clock offset: 5.676 ms

Remote clock offset: 5.826 ms

### Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

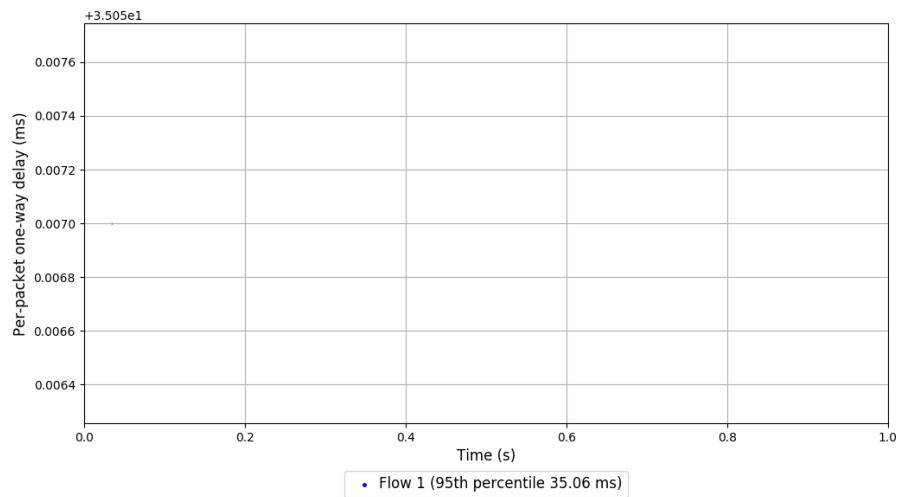
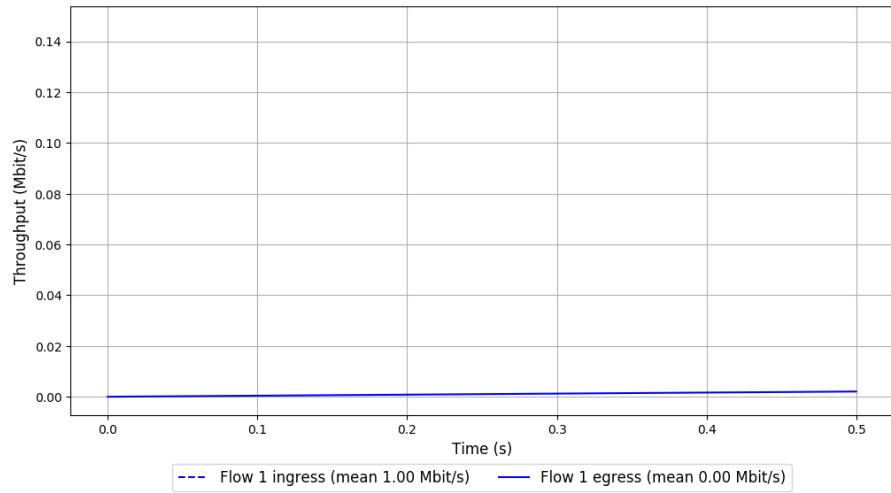
Start at: 2020-02-17 23:13:13

End at: 2020-02-17 23:13:43

Local clock offset: 4.038 ms

Remote clock offset: 5.645 ms

## Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

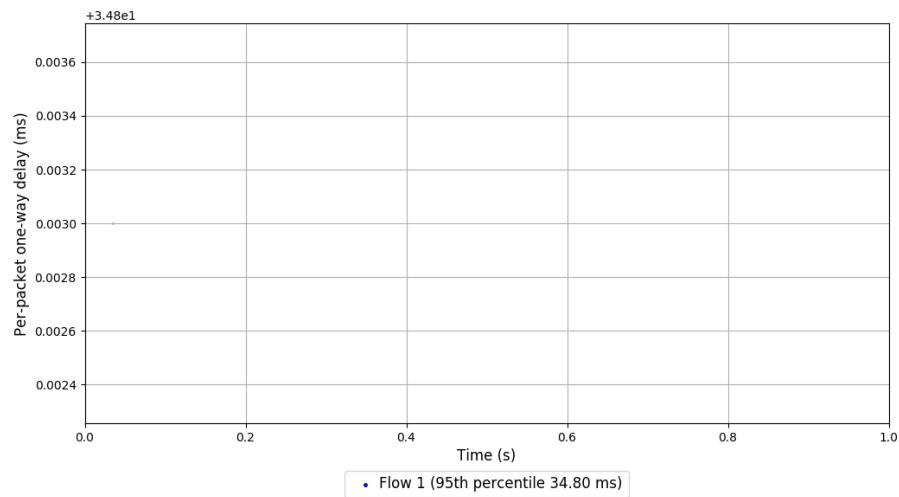
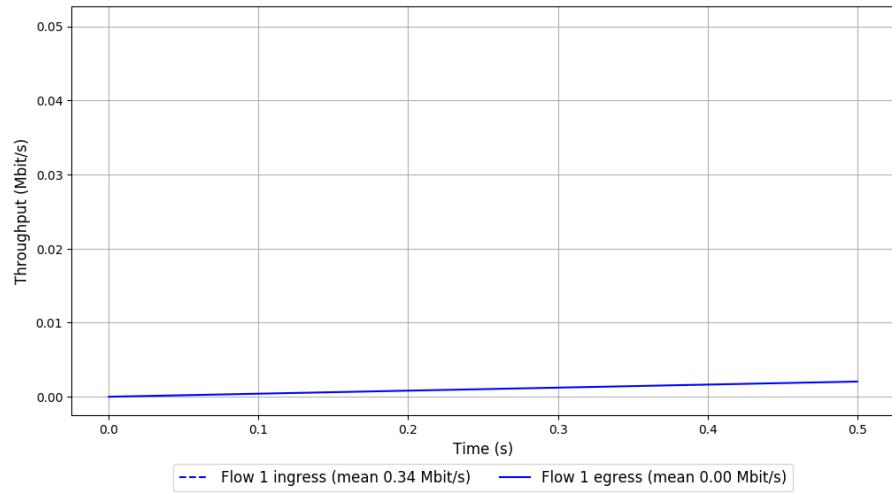
Start at: 2020-02-17 23:43:15

End at: 2020-02-17 23:43:45

Local clock offset: 4.552 ms

Remote clock offset: 5.628 ms

## Run 5: Report of Copa — Data Link

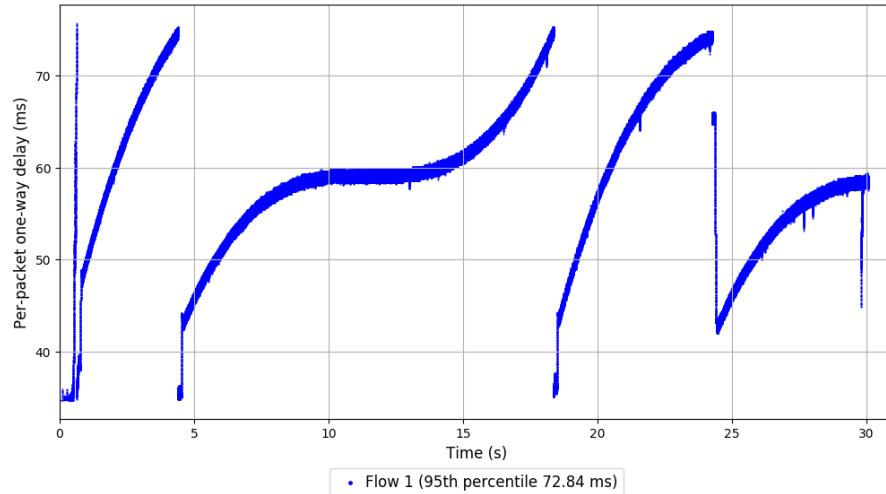
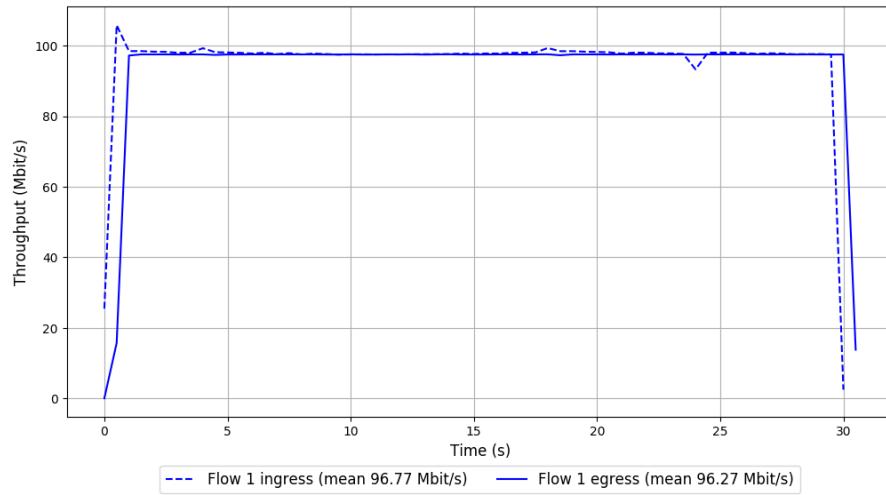


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2020-02-17 21:53:56
End at: 2020-02-17 21:54:26
Local clock offset: 4.958 ms
Remote clock offset: 5.943 ms

# Below is generated by plot.py at 2020-02-18 00:03:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 72.837 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 72.837 ms
Loss rate: 0.44%
```

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

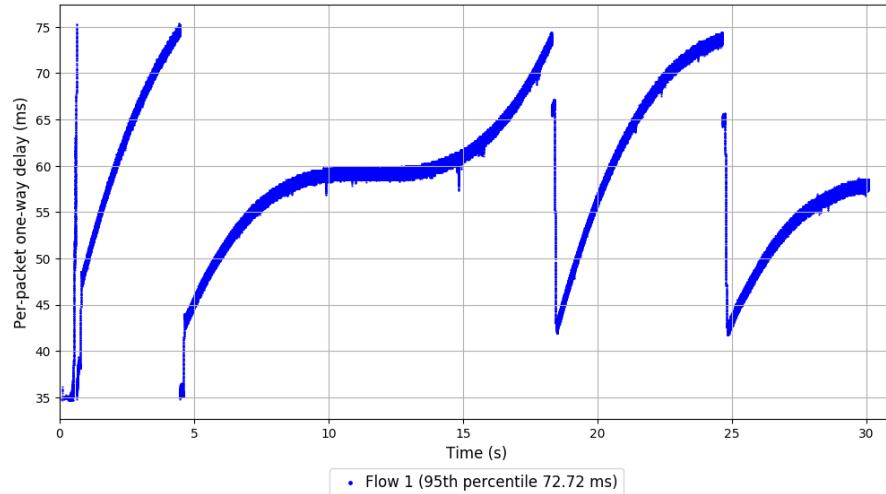
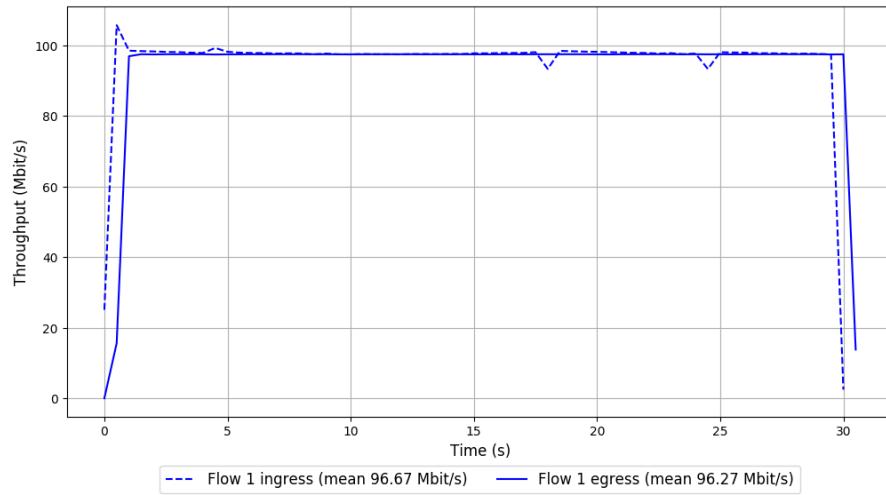


Run 2: Statistics of TCP Cubic

```
Start at: 2020-02-17 22:25:20
End at: 2020-02-17 22:25:50
Local clock offset: 5.993 ms
Remote clock offset: 5.937 ms

# Below is generated by plot.py at 2020-02-18 00:03:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 72.716 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 72.716 ms
Loss rate: 0.33%
```

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

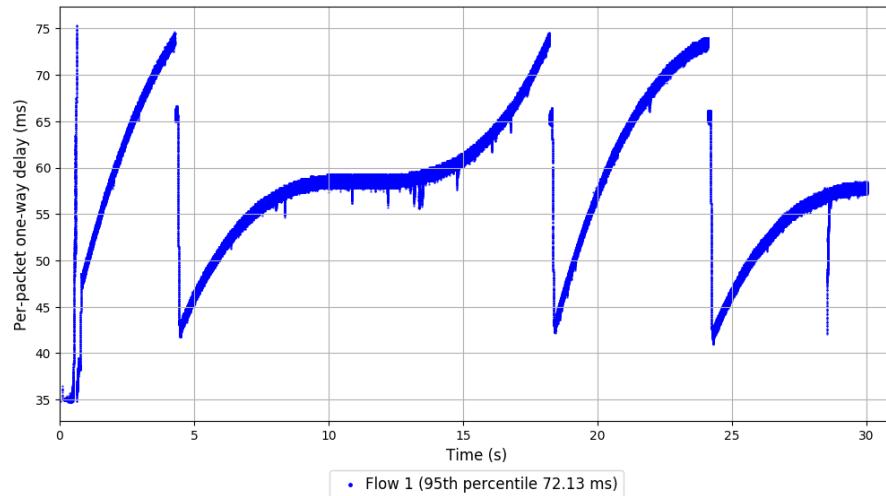
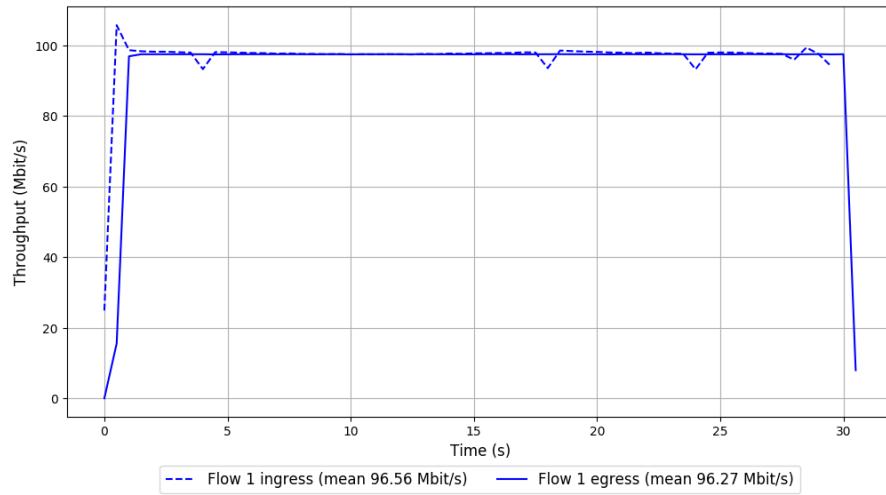


Run 3: Statistics of TCP Cubic

```
Start at: 2020-02-17 22:54:26
End at: 2020-02-17 22:54:56
Local clock offset: 5.878 ms
Remote clock offset: 5.846 ms

# Below is generated by plot.py at 2020-02-18 00:03:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 72.128 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 72.128 ms
Loss rate: 0.23%
```

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

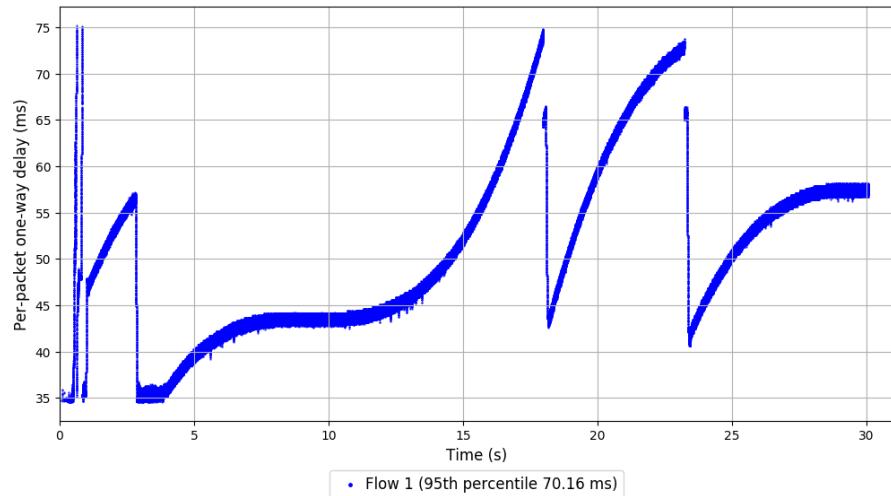
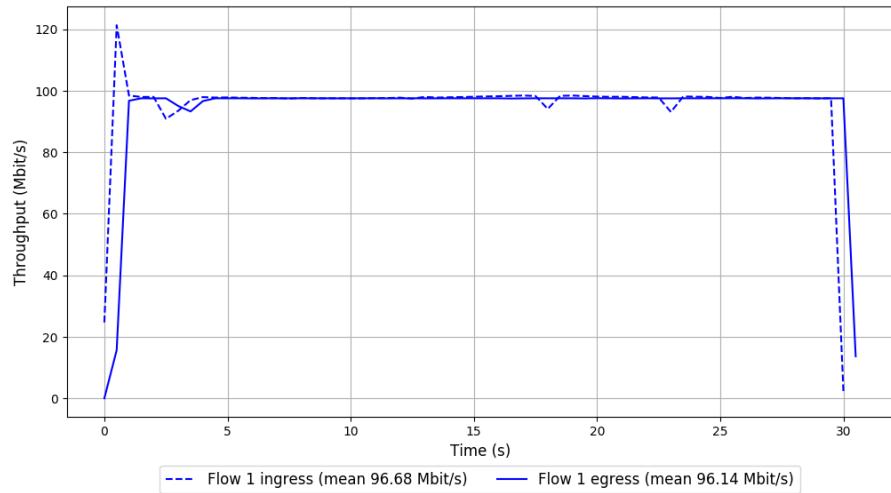


Run 4: Statistics of TCP Cubic

```
Start at: 2020-02-17 23:24:28
End at: 2020-02-17 23:24:58
Local clock offset: 3.737 ms
Remote clock offset: 5.563 ms

# Below is generated by plot.py at 2020-02-18 00:04:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.14 Mbit/s
95th percentile per-packet one-way delay: 70.158 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 96.14 Mbit/s
95th percentile per-packet one-way delay: 70.158 ms
Loss rate: 0.48%
```

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

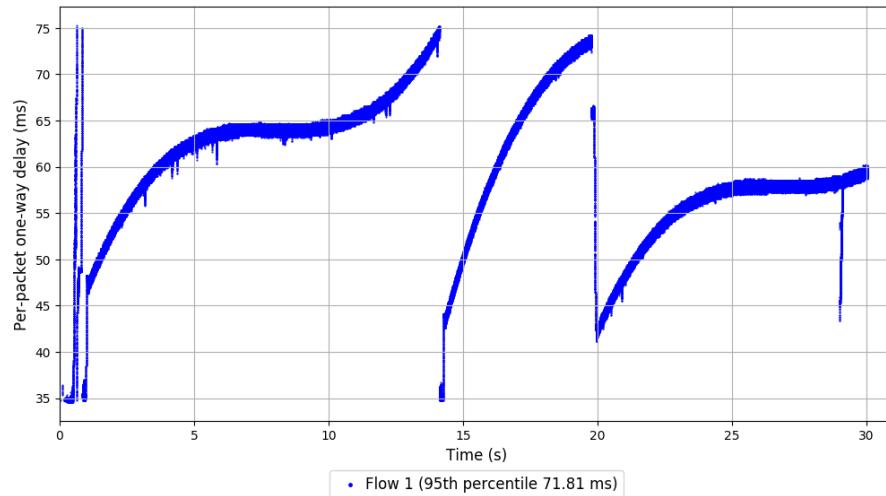
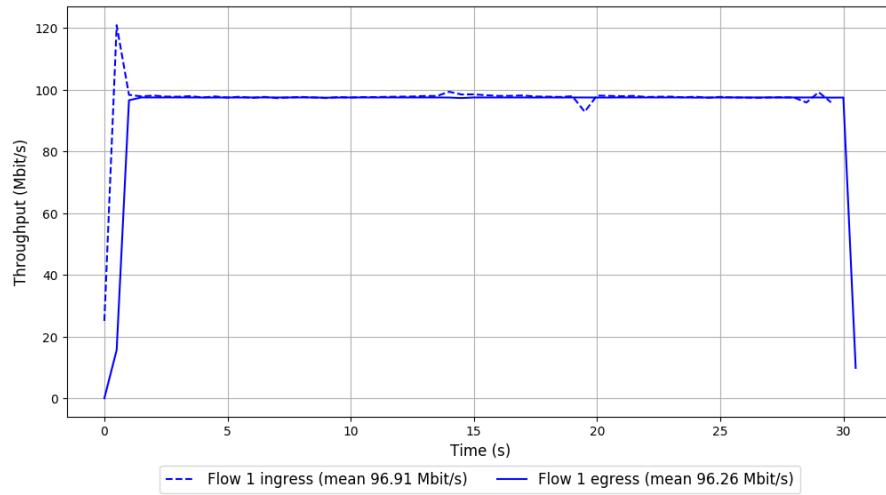


Run 5: Statistics of TCP Cubic

```
Start at: 2020-02-17 23:54:41
End at: 2020-02-17 23:55:11
Local clock offset: 4.756 ms
Remote clock offset: 5.484 ms

# Below is generated by plot.py at 2020-02-18 00:04:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 71.806 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 71.806 ms
Loss rate: 0.58%
```

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

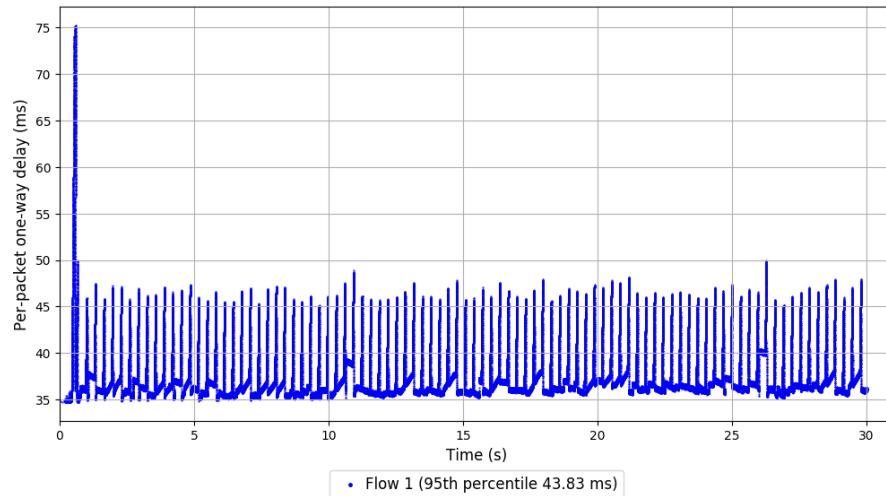
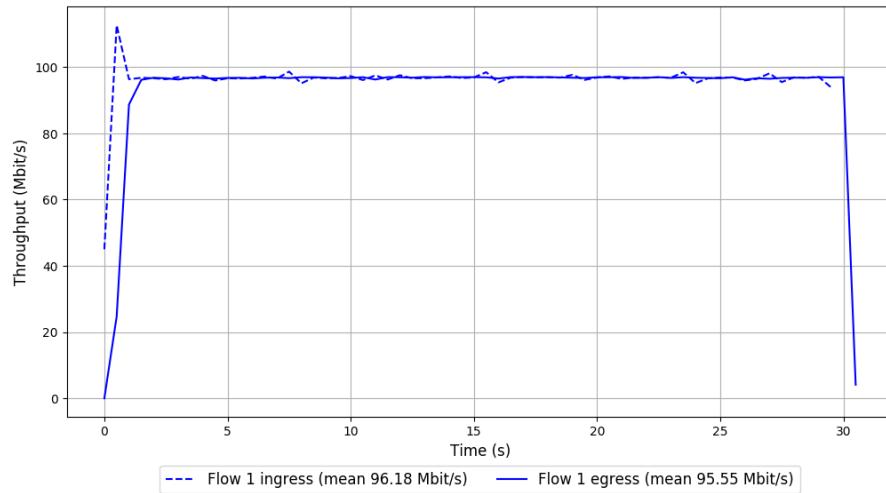


```
Run 1: Statistics of FillP

Start at: 2020-02-17 21:32:01
End at: 2020-02-17 21:32:32
Local clock offset: 3.877 ms
Remote clock offset: 5.69 ms

# Below is generated by plot.py at 2020-02-18 00:04:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 43.826 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 43.826 ms
Loss rate: 0.65%
```

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

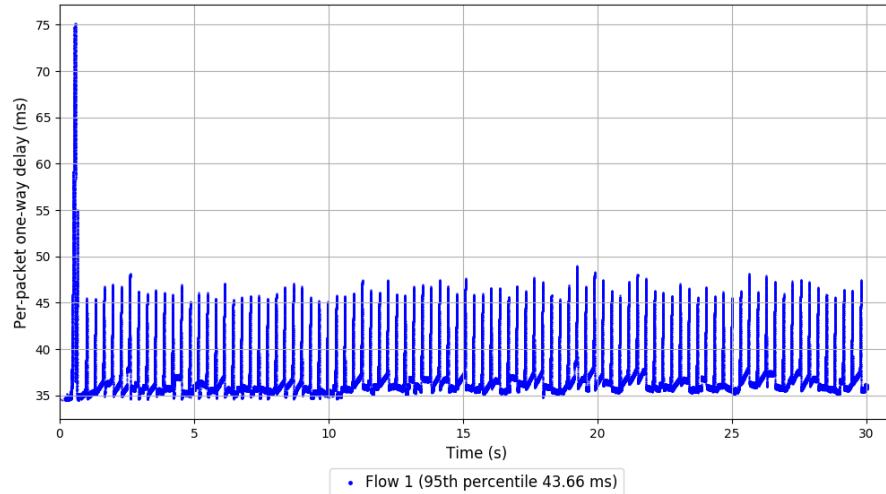
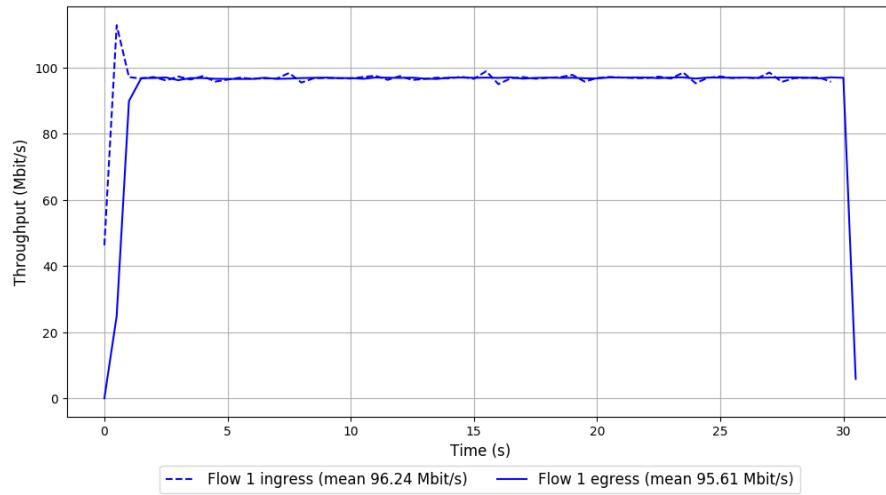


Run 2: Statistics of FillP

```
Start at: 2020-02-17 22:03:00
End at: 2020-02-17 22:03:30
Local clock offset: 5.201 ms
Remote clock offset: 5.972 ms

# Below is generated by plot.py at 2020-02-18 00:04:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 43.661 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 43.661 ms
Loss rate: 0.65%
```

## Run 2: Report of FillP — Data Link

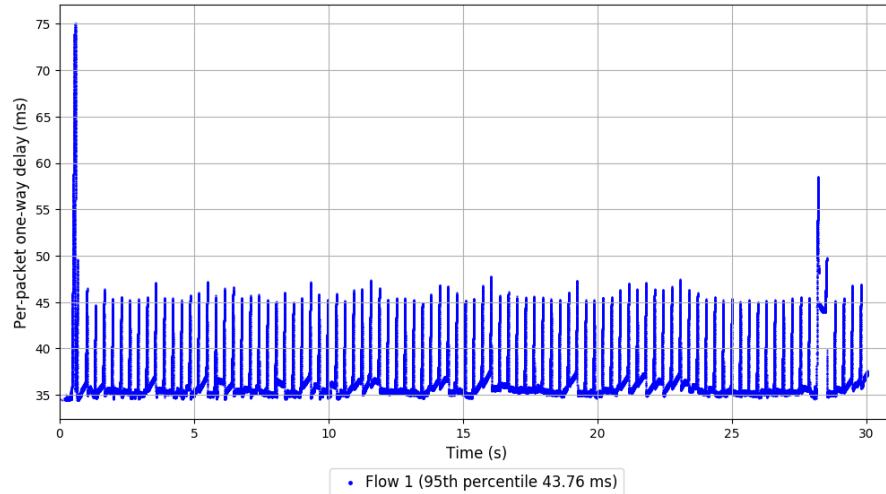
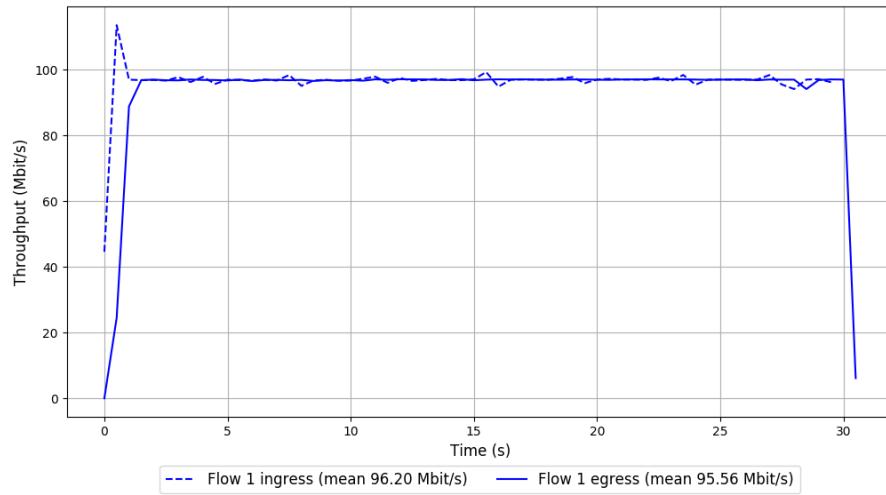


Run 3: Statistics of FillP

```
Start at: 2020-02-17 22:33:34
End at: 2020-02-17 22:34:04
Local clock offset: 5.777 ms
Remote clock offset: 5.87 ms

# Below is generated by plot.py at 2020-02-18 00:04:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.56 Mbit/s
95th percentile per-packet one-way delay: 43.755 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 95.56 Mbit/s
95th percentile per-packet one-way delay: 43.755 ms
Loss rate: 0.66%
```

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

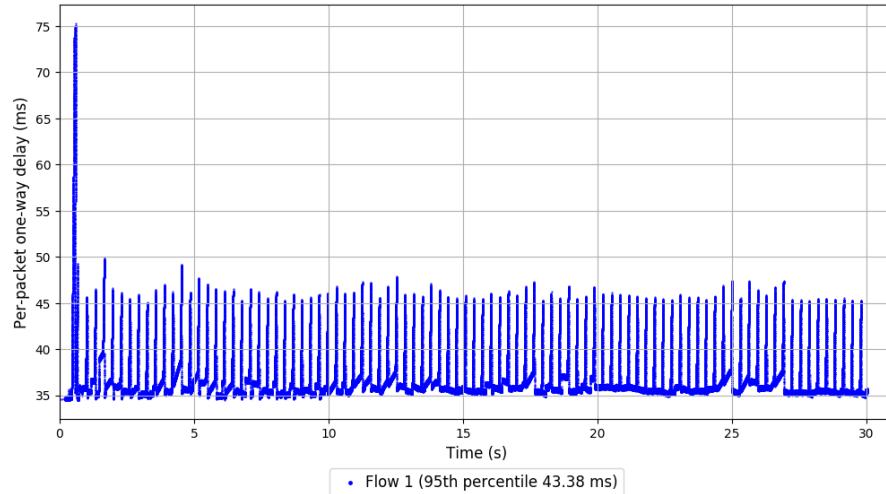
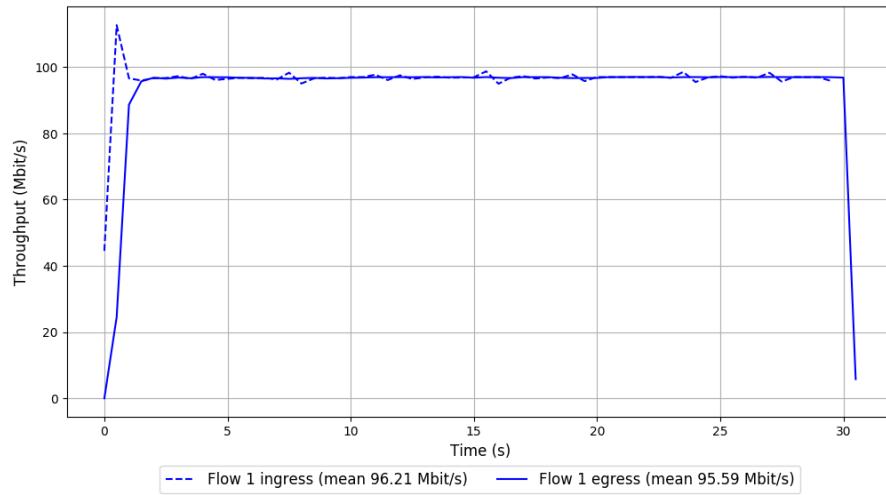


Run 4: Statistics of FillP

```
Start at: 2020-02-17 23:03:06
End at: 2020-02-17 23:03:36
Local clock offset: 4.924 ms
Remote clock offset: 5.672 ms

# Below is generated by plot.py at 2020-02-18 00:04:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 43.383 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 43.383 ms
Loss rate: 0.65%
```

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

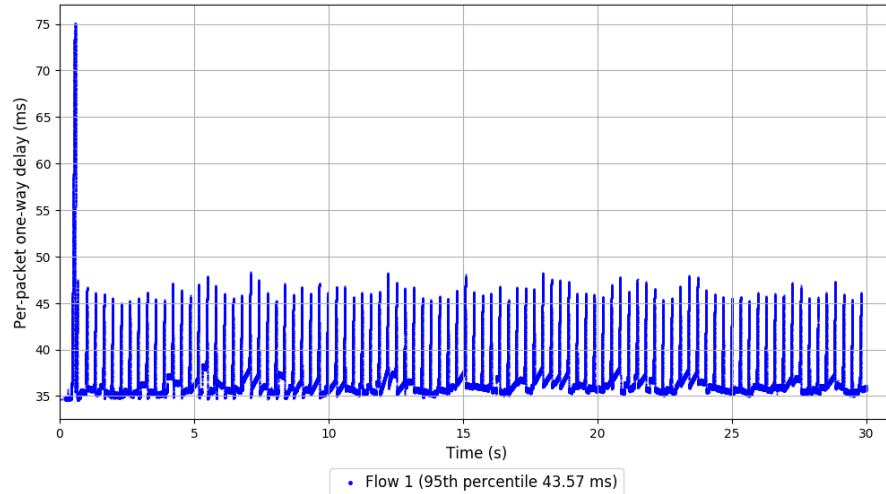
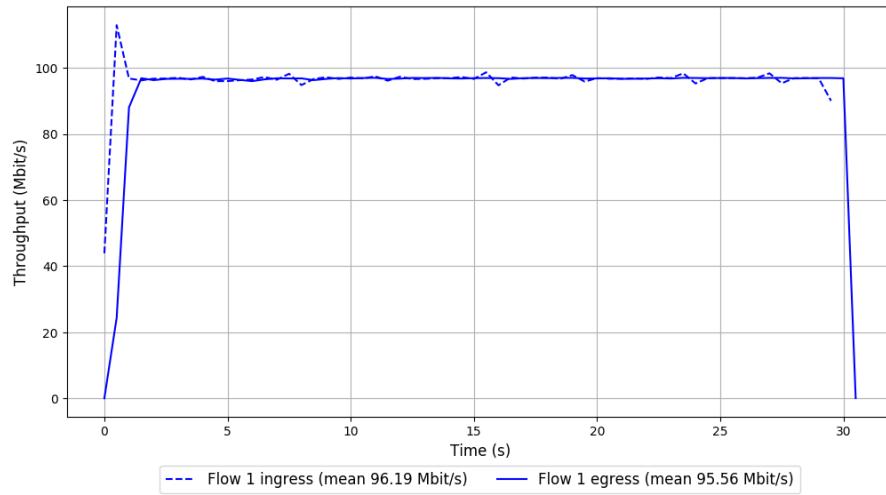


Run 5: Statistics of FillP

```
Start at: 2020-02-17 23:33:12
End at: 2020-02-17 23:33:42
Local clock offset: 4.126 ms
Remote clock offset: 5.636 ms

# Below is generated by plot.py at 2020-02-18 00:04:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.56 Mbit/s
95th percentile per-packet one-way delay: 43.572 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 95.56 Mbit/s
95th percentile per-packet one-way delay: 43.572 ms
Loss rate: 0.65%
```

## Run 5: Report of FillP — Data Link

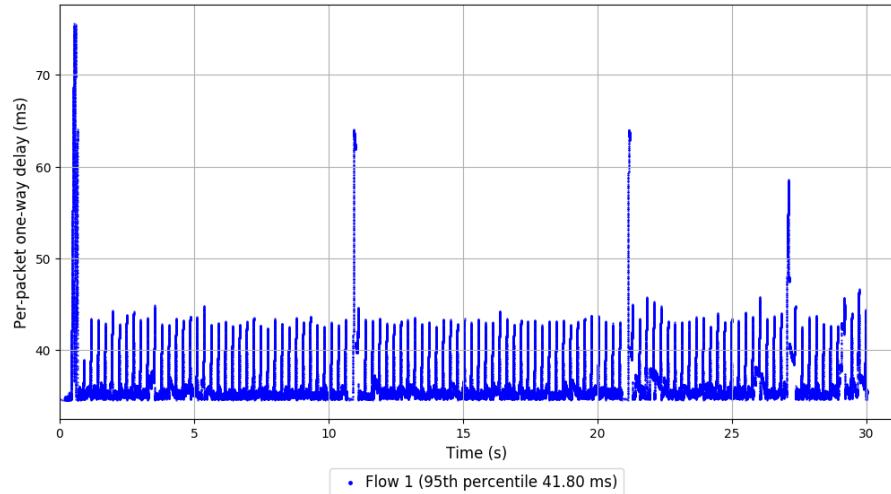
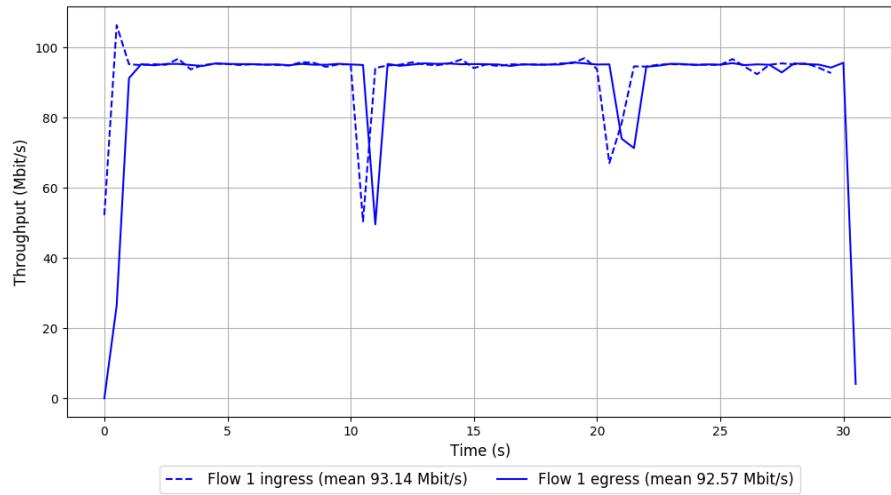


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2020-02-17 21:49:47
End at: 2020-02-17 21:50:17
Local clock offset: 4.759 ms
Remote clock offset: 5.898 ms

# Below is generated by plot.py at 2020-02-18 00:04:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 41.804 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 41.804 ms
Loss rate: 0.61%
```

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

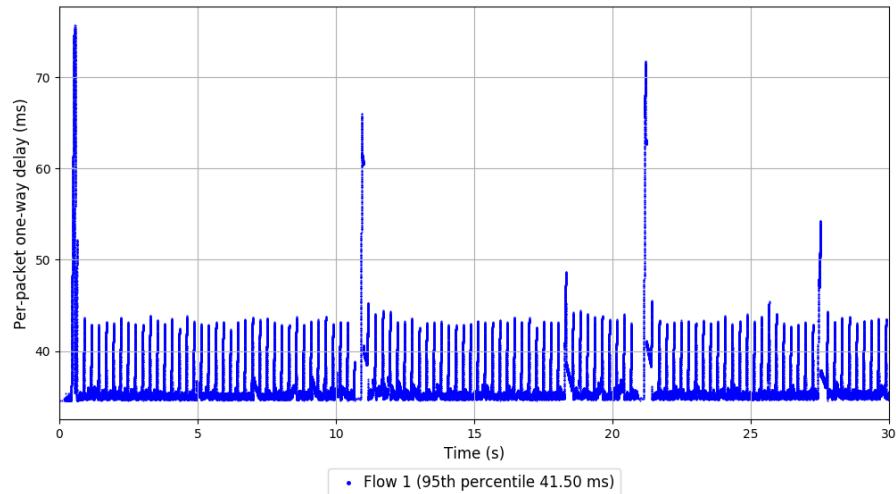
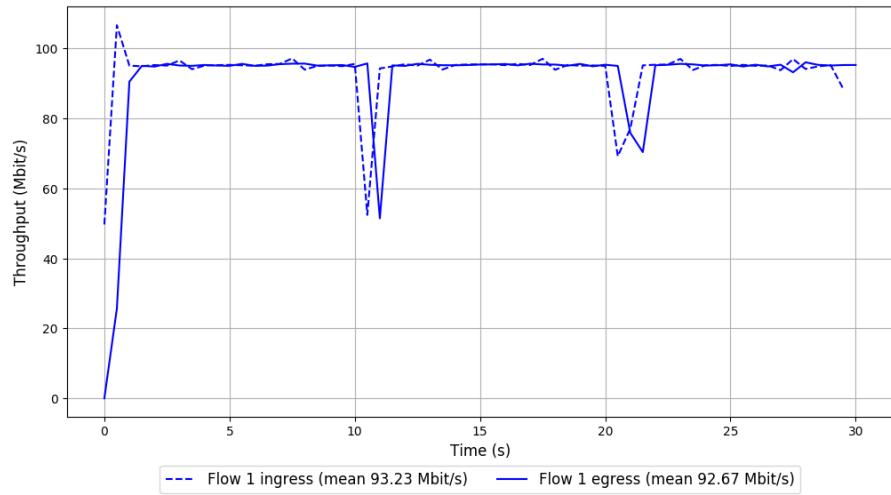


Run 2: Statistics of FillP-Sheep

```
Start at: 2020-02-17 22:21:22
End at: 2020-02-17 22:21:52
Local clock offset: 5.781 ms
Remote clock offset: 6.171 ms

# Below is generated by plot.py at 2020-02-18 00:05:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.67 Mbit/s
95th percentile per-packet one-way delay: 41.497 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 92.67 Mbit/s
95th percentile per-packet one-way delay: 41.497 ms
Loss rate: 0.60%
```

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

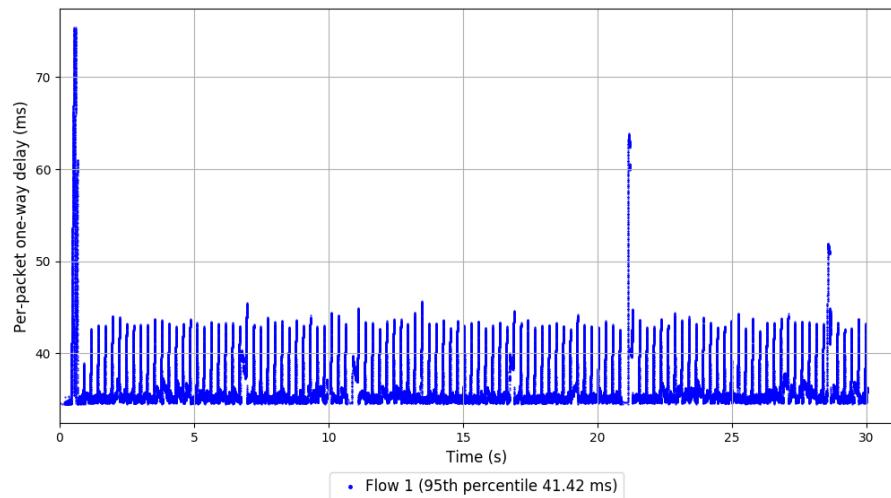
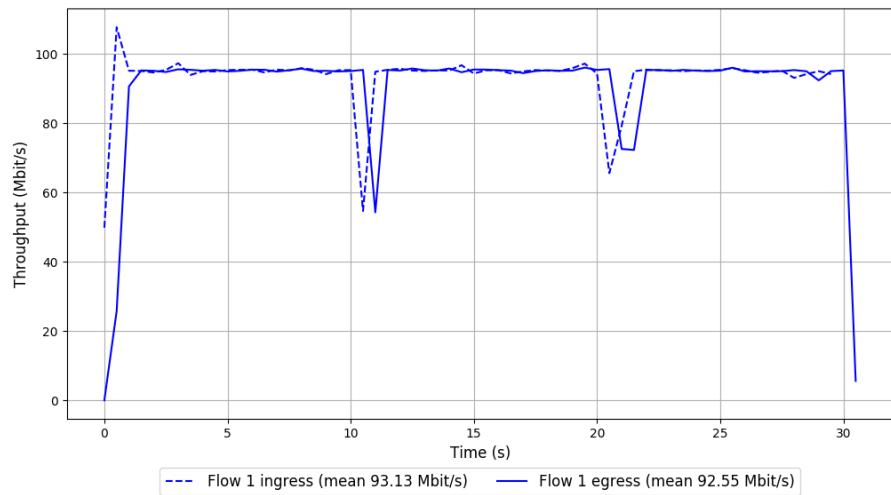


Run 3: Statistics of FillP-Sheep

```
Start at: 2020-02-17 22:50:34
End at: 2020-02-17 22:51:04
Local clock offset: 5.831 ms
Remote clock offset: 5.74 ms

# Below is generated by plot.py at 2020-02-18 00:05:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.55 Mbit/s
95th percentile per-packet one-way delay: 41.419 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.55 Mbit/s
95th percentile per-packet one-way delay: 41.419 ms
Loss rate: 0.61%
```

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

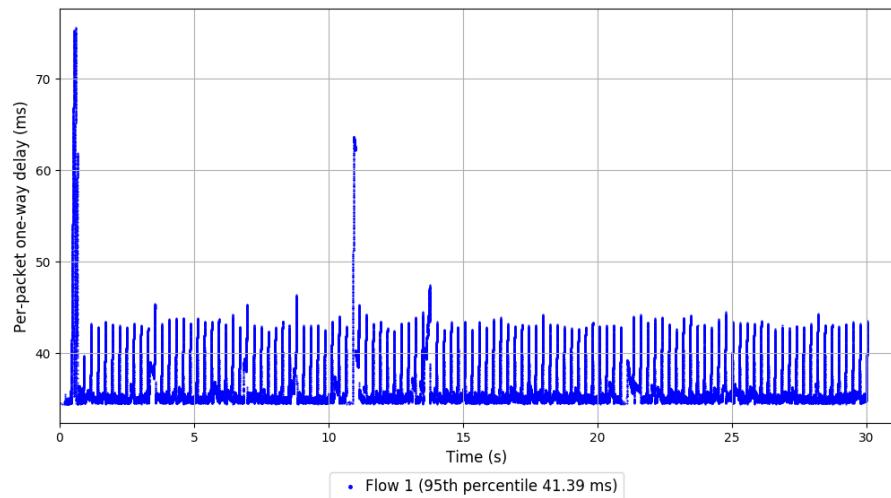
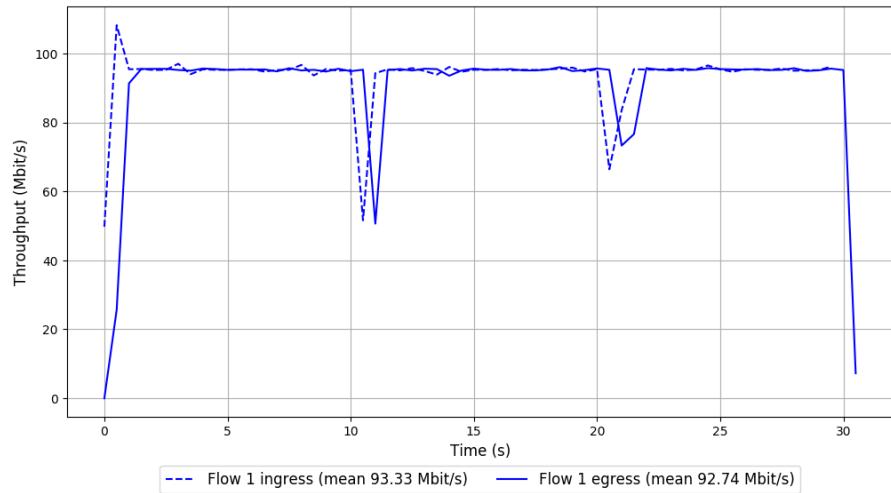


Run 4: Statistics of FillP-Sheep

```
Start at: 2020-02-17 23:20:27
End at: 2020-02-17 23:20:57
Local clock offset: 3.799 ms
Remote clock offset: 5.523 ms

# Below is generated by plot.py at 2020-02-18 00:05:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.74 Mbit/s
95th percentile per-packet one-way delay: 41.389 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.74 Mbit/s
95th percentile per-packet one-way delay: 41.389 ms
Loss rate: 0.61%
```

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

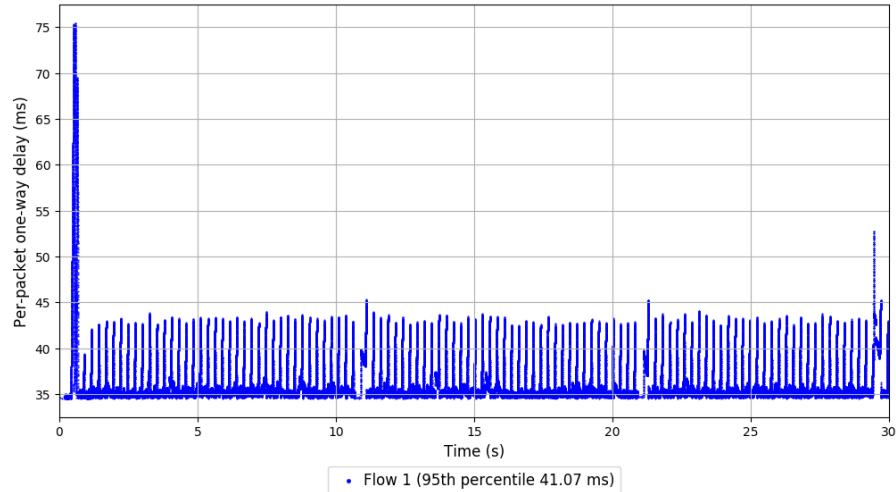
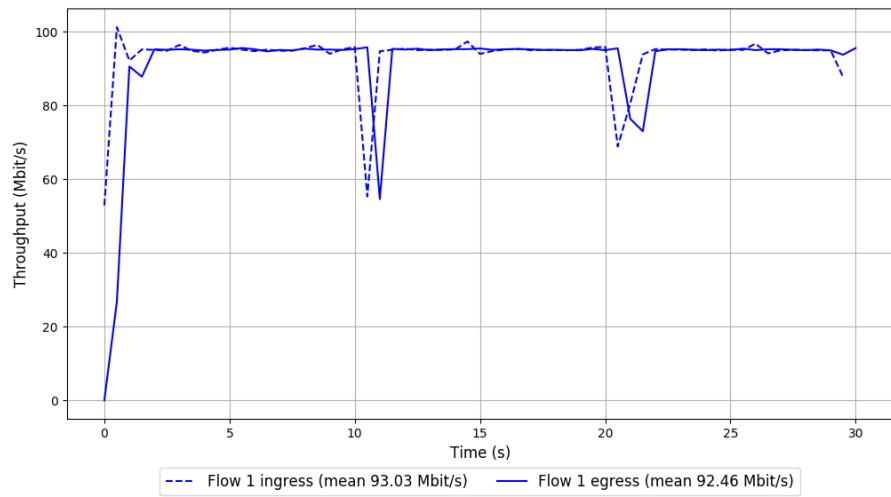


Run 5: Statistics of FillP-Sheep

```
Start at: 2020-02-17 23:50:33
End at: 2020-02-17 23:51:03
Local clock offset: 4.697 ms
Remote clock offset: 5.601 ms

# Below is generated by plot.py at 2020-02-18 00:05:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.46 Mbit/s
95th percentile per-packet one-way delay: 41.069 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 92.46 Mbit/s
95th percentile per-packet one-way delay: 41.069 ms
Loss rate: 0.62%
```

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

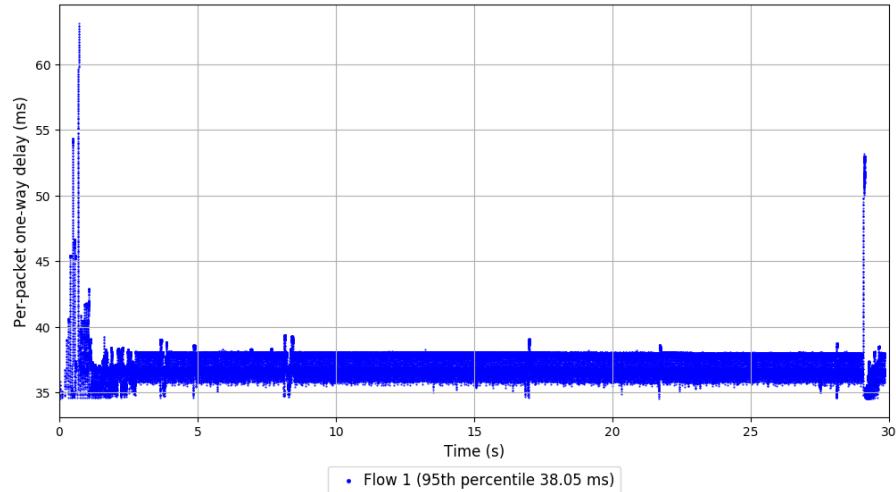
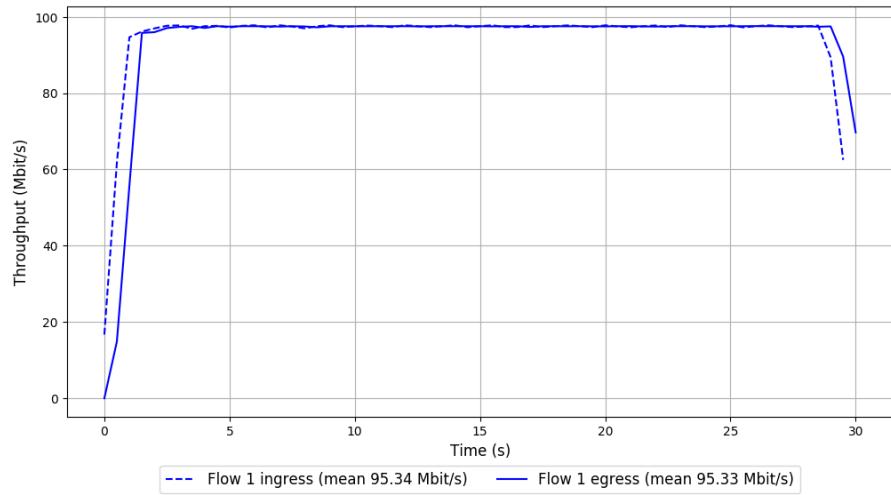


Run 1: Statistics of Indigo

```
Start at: 2020-02-17 21:38:09
End at: 2020-02-17 21:38:39
Local clock offset: 4.816 ms
Remote clock offset: 5.803 ms

# Below is generated by plot.py at 2020-02-18 00:05:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.33 Mbit/s
95th percentile per-packet one-way delay: 38.050 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.33 Mbit/s
95th percentile per-packet one-way delay: 38.050 ms
Loss rate: 0.00%
```

## Run 1: Report of Indigo — Data Link

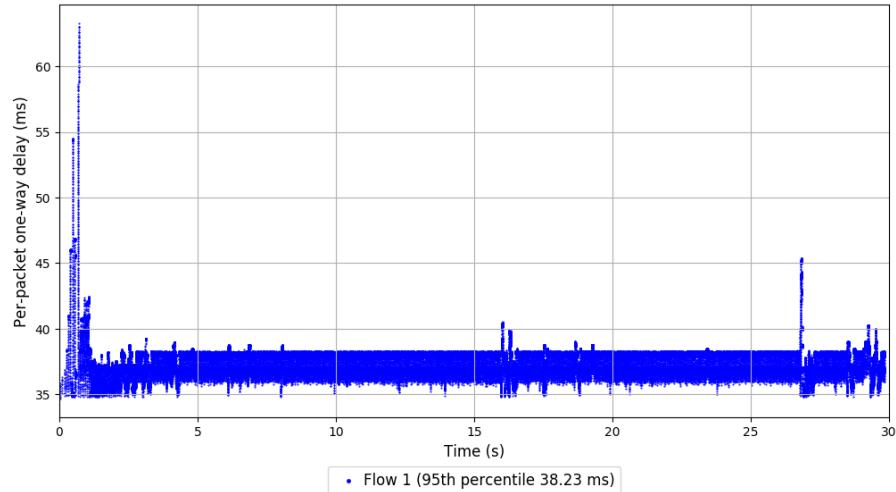
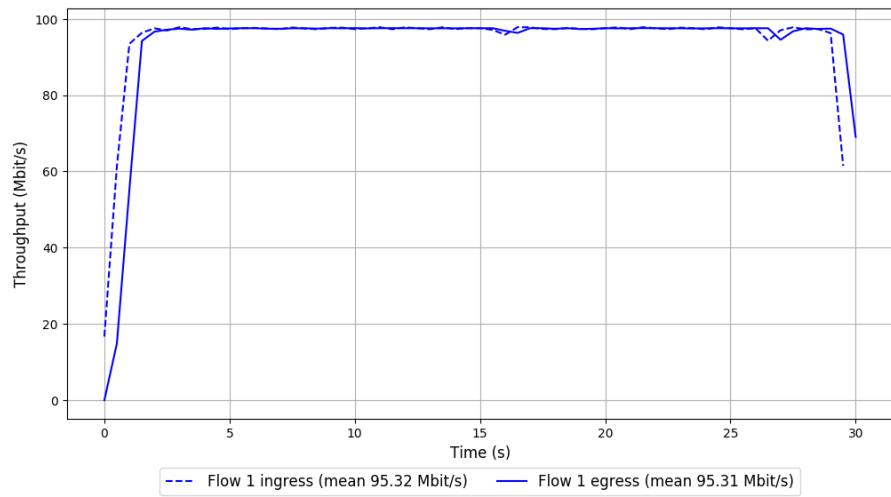


Run 2: Statistics of Indigo

```
Start at: 2020-02-17 22:09:48
End at: 2020-02-17 22:10:18
Local clock offset: 5.348 ms
Remote clock offset: 6.109 ms

# Below is generated by plot.py at 2020-02-18 00:05:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 38.235 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 38.235 ms
Loss rate: 0.00%
```

## Run 2: Report of Indigo — Data Link

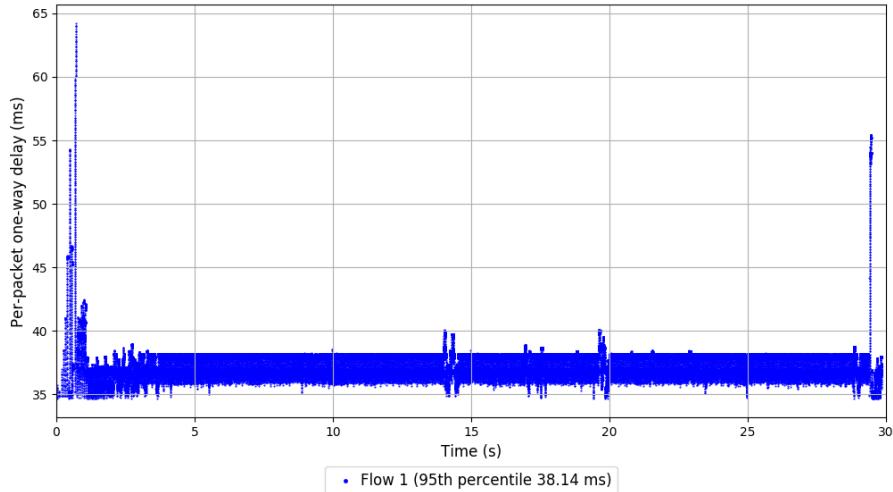
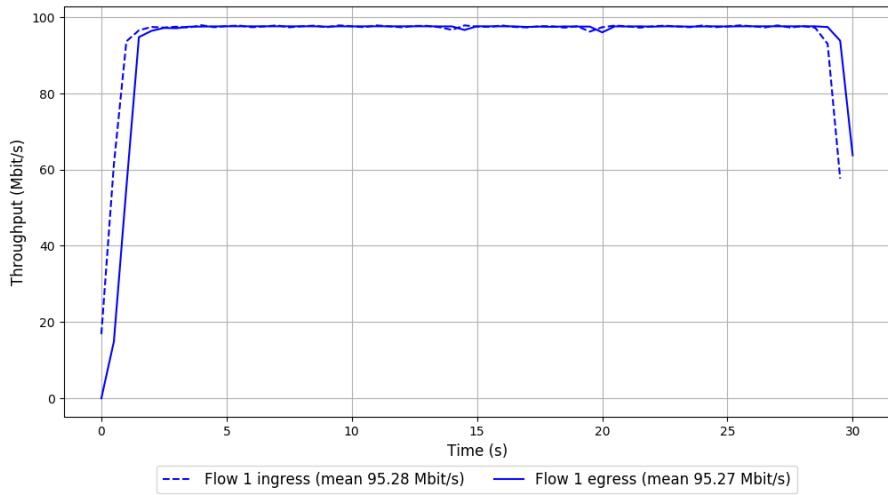


Run 3: Statistics of Indigo

```
Start at: 2020-02-17 22:39:57
End at: 2020-02-17 22:40:27
Local clock offset: 5.636 ms
Remote clock offset: 5.824 ms

# Below is generated by plot.py at 2020-02-18 00:05:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 38.139 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 38.139 ms
Loss rate: 0.00%
```

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

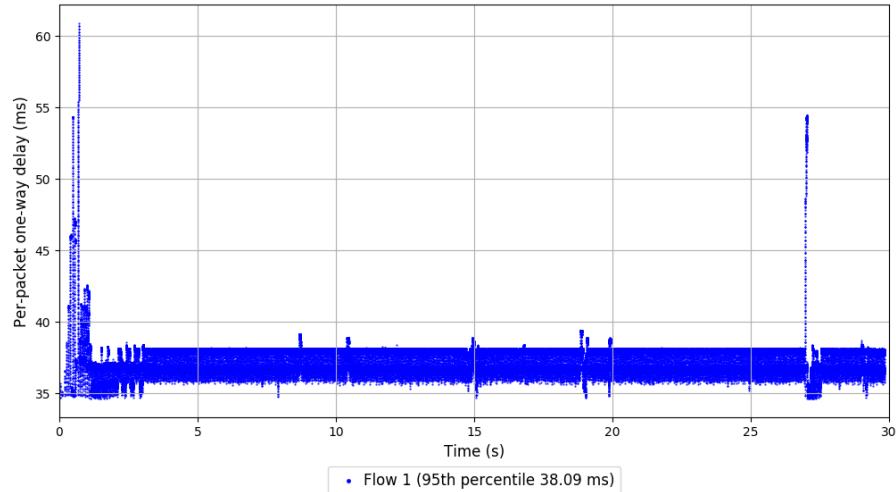
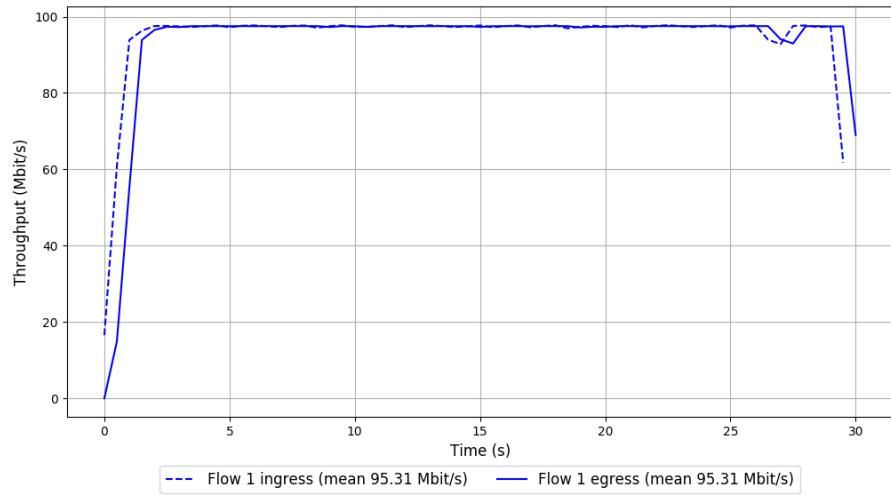


Run 4: Statistics of Indigo

```
Start at: 2020-02-17 23:09:24
End at: 2020-02-17 23:09:54
Local clock offset: 4.247 ms
Remote clock offset: 5.689 ms

# Below is generated by plot.py at 2020-02-18 00:05:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 38.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 38.091 ms
Loss rate: 0.00%
```

## Run 4: Report of Indigo — Data Link

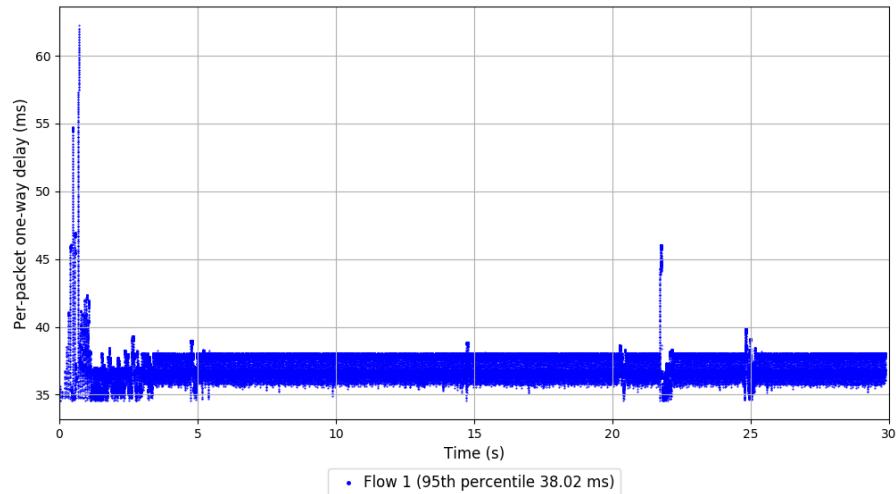
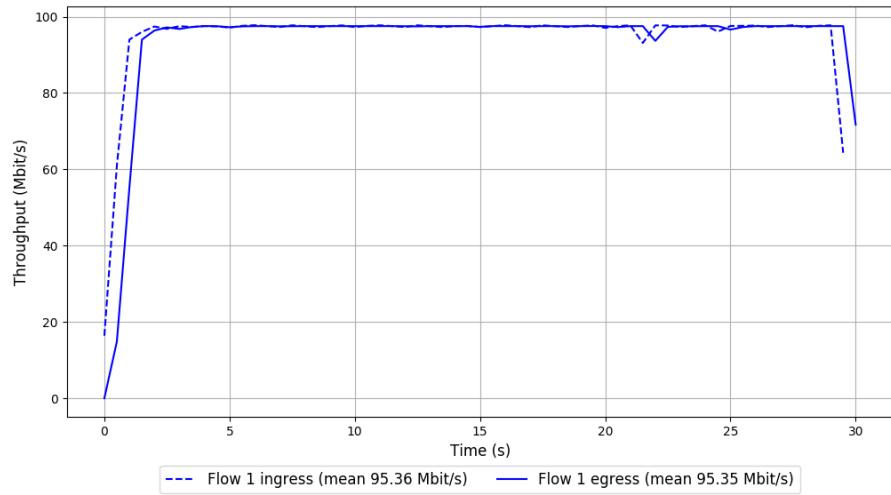


Run 5: Statistics of Indigo

```
Start at: 2020-02-17 23:39:29
End at: 2020-02-17 23:39:59
Local clock offset: 4.441 ms
Remote clock offset: 5.523 ms

# Below is generated by plot.py at 2020-02-18 00:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.35 Mbit/s
95th percentile per-packet one-way delay: 38.025 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.35 Mbit/s
95th percentile per-packet one-way delay: 38.025 ms
Loss rate: 0.00%
```

## Run 5: Report of Indigo — Data Link

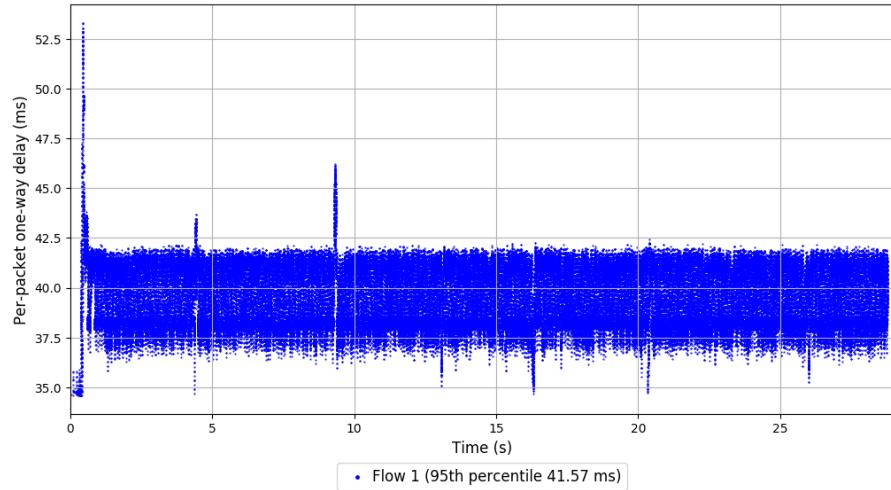
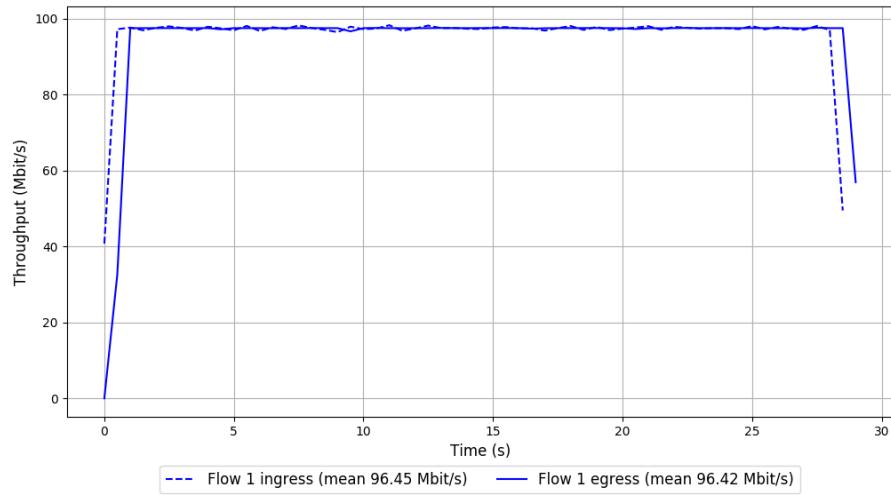


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2020-02-17 21:40:50
End at: 2020-02-17 21:41:20
Local clock offset: 4.535 ms
Remote clock offset: 5.708 ms

# Below is generated by plot.py at 2020-02-18 00:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 41.574 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 41.574 ms
Loss rate: 0.00%
```

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

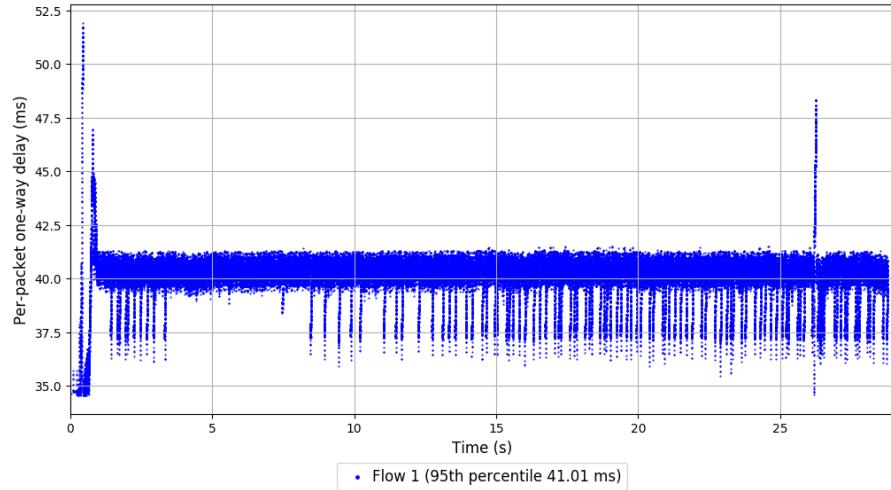
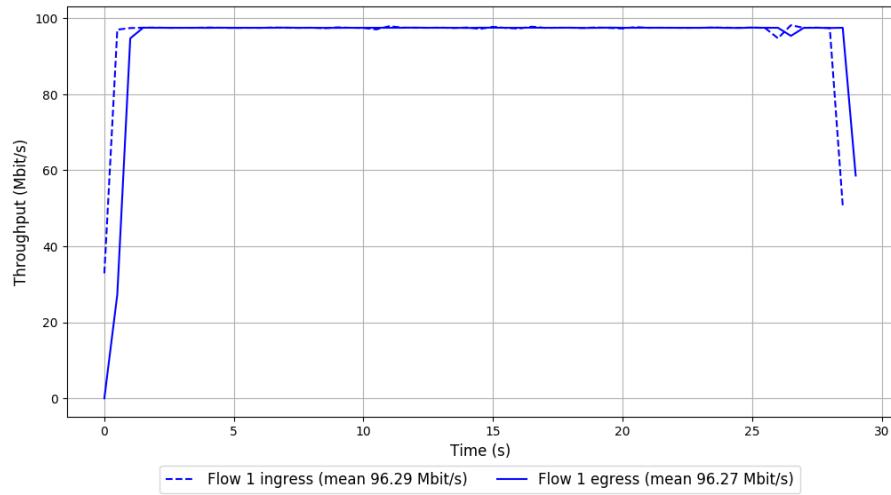


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2020-02-17 22:12:32
End at: 2020-02-17 22:13:02
Local clock offset: 5.471 ms
Remote clock offset: 6.059 ms

# Below is generated by plot.py at 2020-02-18 00:06:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 41.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 41.011 ms
Loss rate: 0.00%
```

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

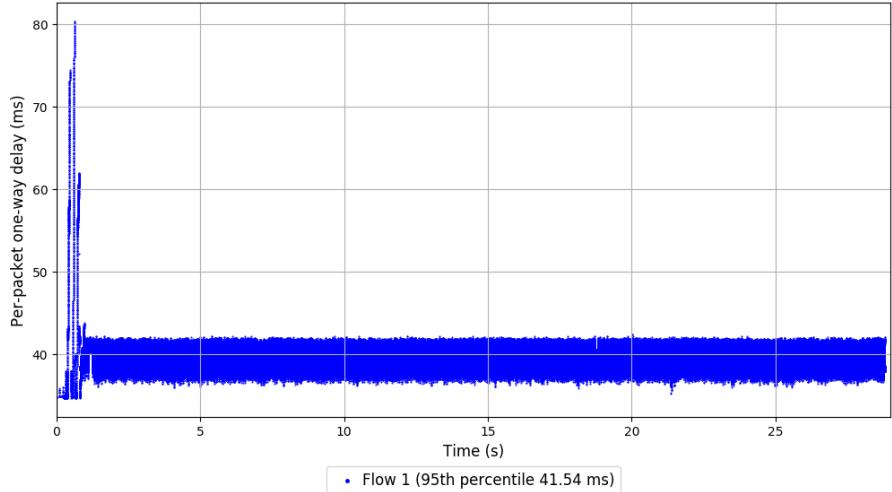
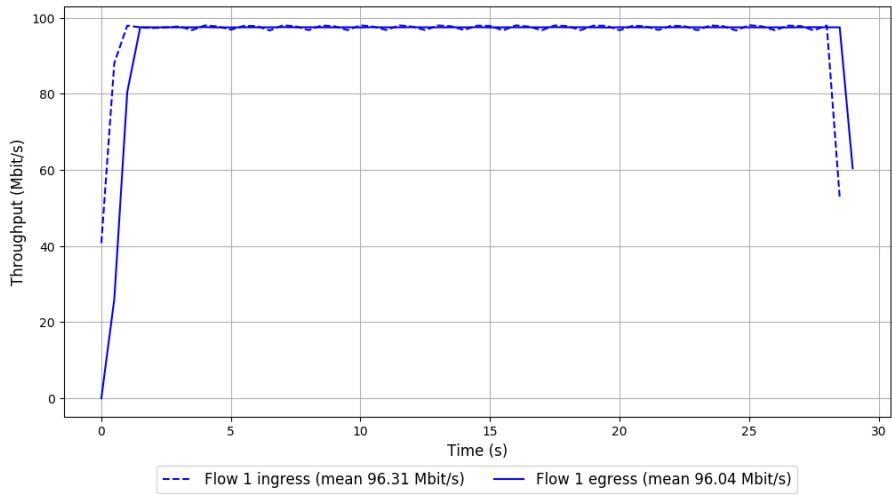


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2020-02-17 22:42:19
End at: 2020-02-17 22:42:49
Local clock offset: 5.642 ms
Remote clock offset: 5.868 ms

# Below is generated by plot.py at 2020-02-18 00:06:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 41.541 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 41.541 ms
Loss rate: 0.27%
```

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

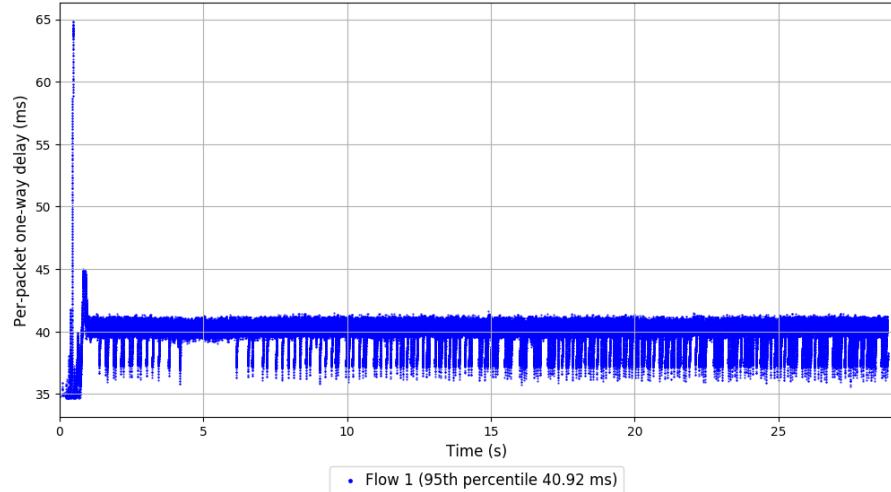
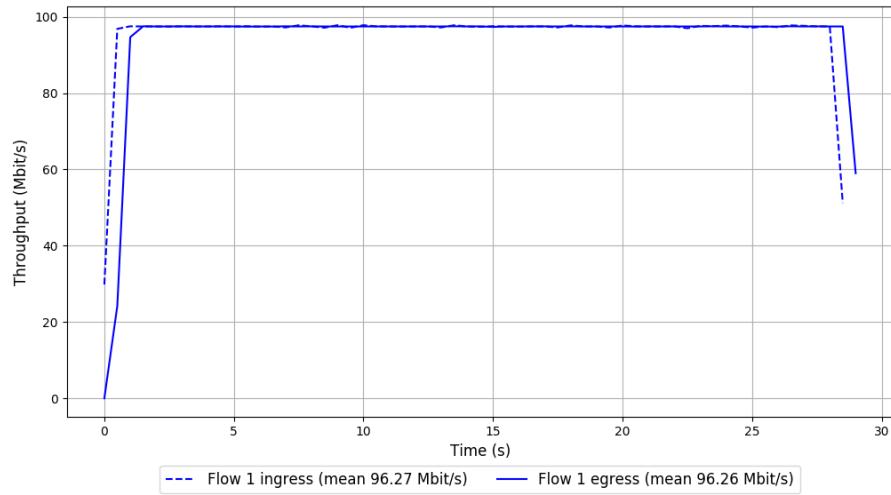


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2020-02-17 23:11:56
End at: 2020-02-17 23:12:26
Local clock offset: 4.133 ms
Remote clock offset: 5.711 ms

# Below is generated by plot.py at 2020-02-18 00:06:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 40.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 40.925 ms
Loss rate: 0.00%
```

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

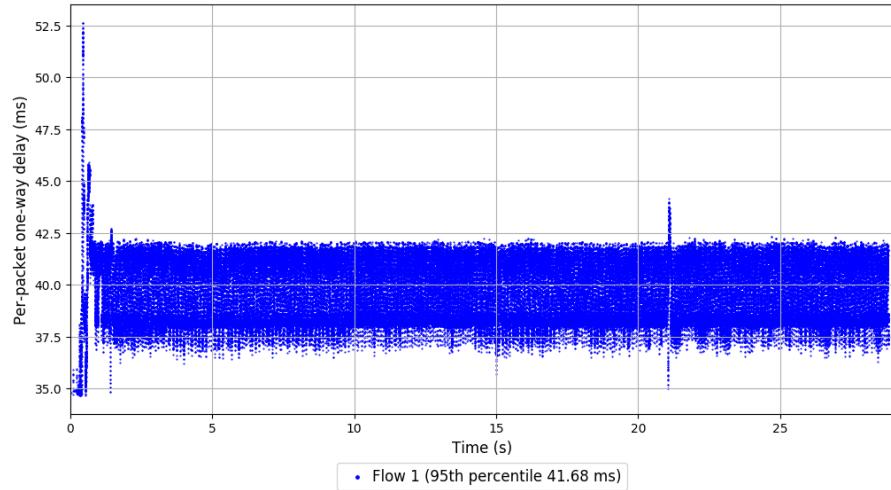
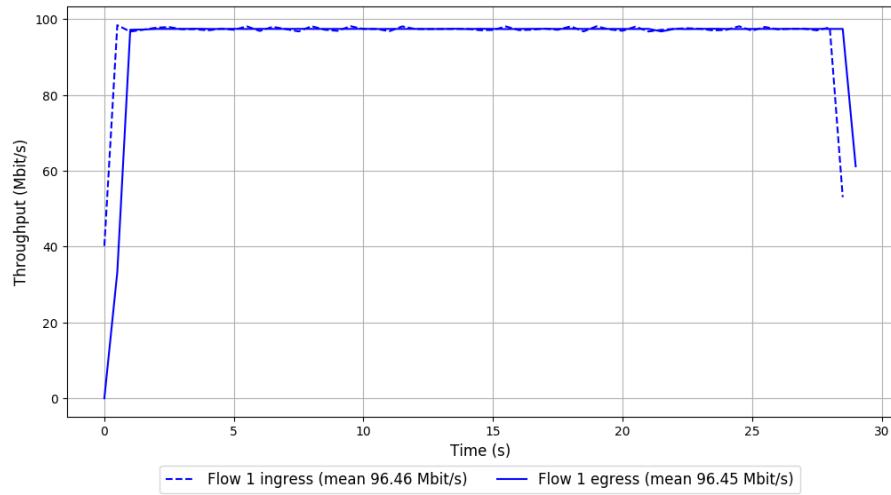


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2020-02-17 23:41:56
End at: 2020-02-17 23:42:26
Local clock offset: 4.513 ms
Remote clock offset: 5.636 ms

# Below is generated by plot.py at 2020-02-18 00:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.45 Mbit/s
95th percentile per-packet one-way delay: 41.683 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.45 Mbit/s
95th percentile per-packet one-way delay: 41.683 ms
Loss rate: 0.00%
```

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

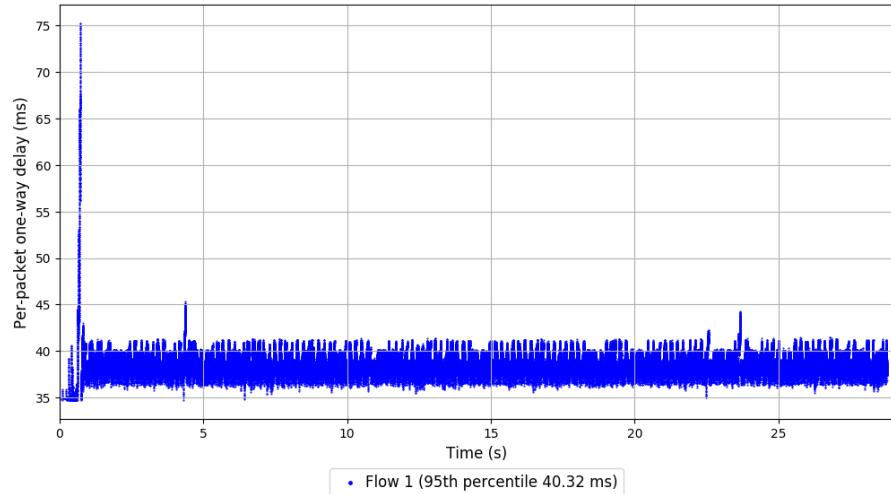
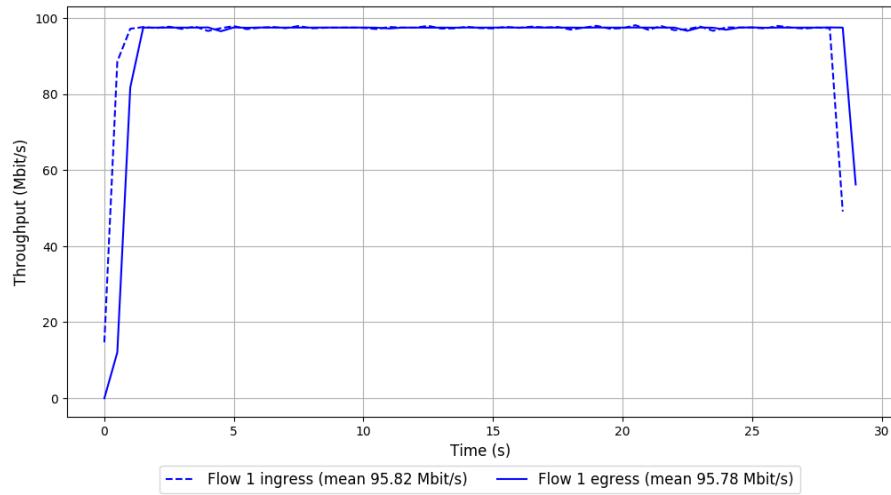


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2020-02-17 21:35:35
End at: 2020-02-17 21:36:05
Local clock offset: 5.237 ms
Remote clock offset: 5.742 ms

# Below is generated by plot.py at 2020-02-18 00:06:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 40.319 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 40.319 ms
Loss rate: 0.04%
```

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

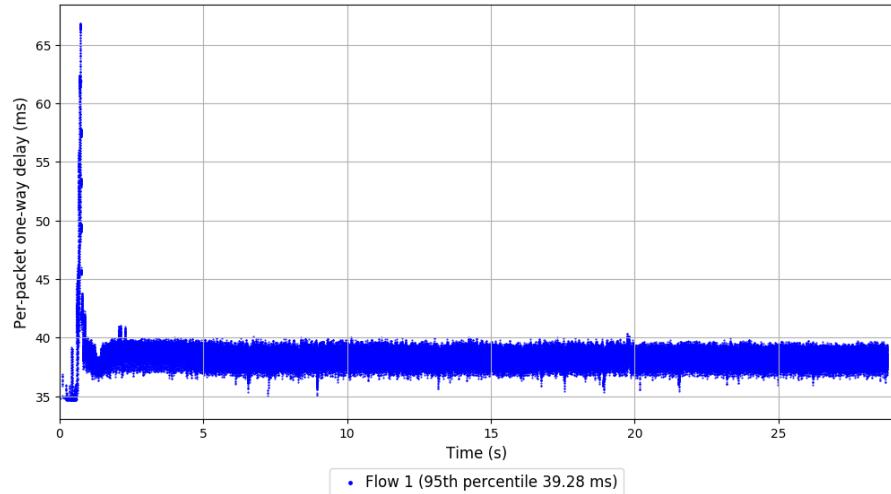
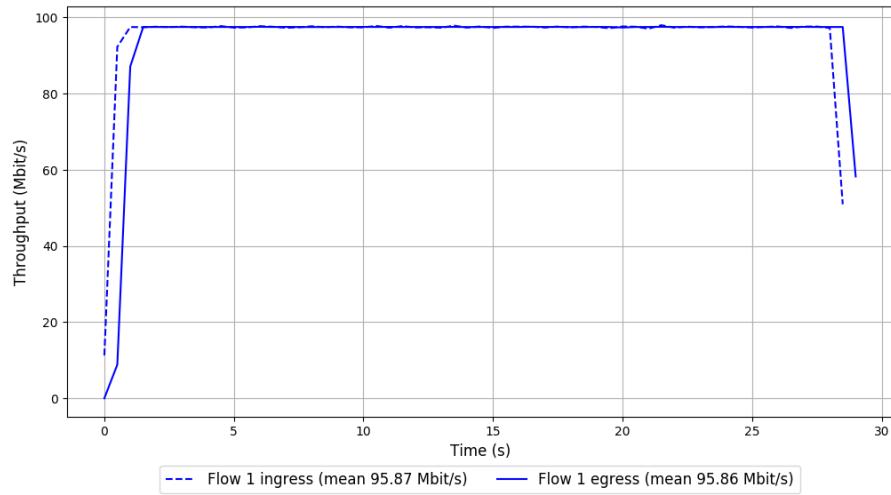


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2020-02-17 22:07:05
End at: 2020-02-17 22:07:35
Local clock offset: 5.275 ms
Remote clock offset: 6.123 ms

# Below is generated by plot.py at 2020-02-18 00:06:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 39.276 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 39.276 ms
Loss rate: 0.00%
```

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

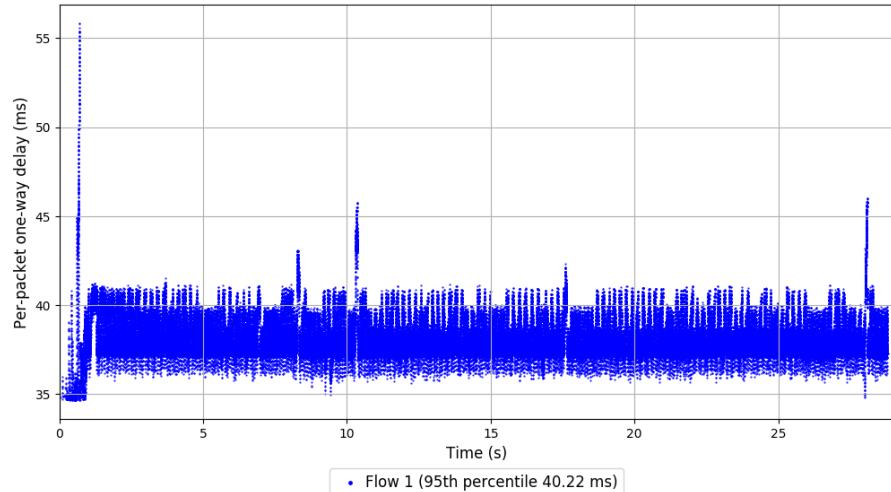
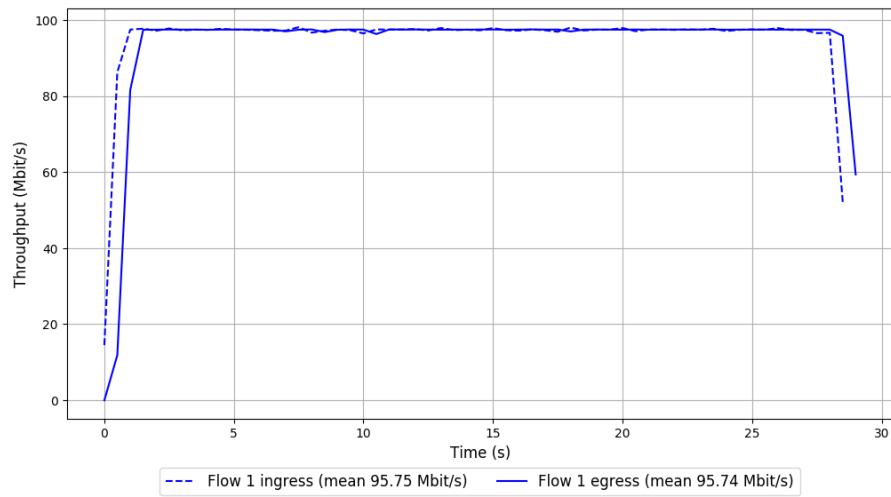


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2020-02-17 22:37:23
End at: 2020-02-17 22:37:54
Local clock offset: 5.666 ms
Remote clock offset: 5.794 ms

# Below is generated by plot.py at 2020-02-18 00:07:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 40.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 40.218 ms
Loss rate: 0.00%
```

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

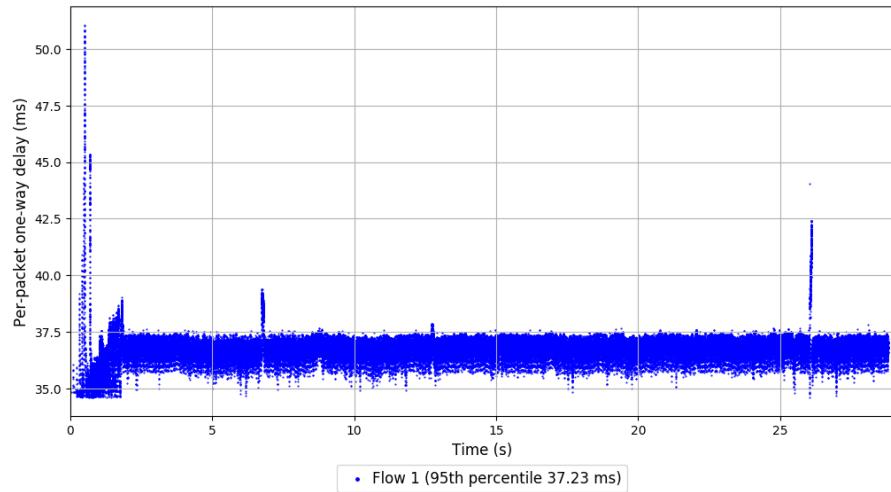
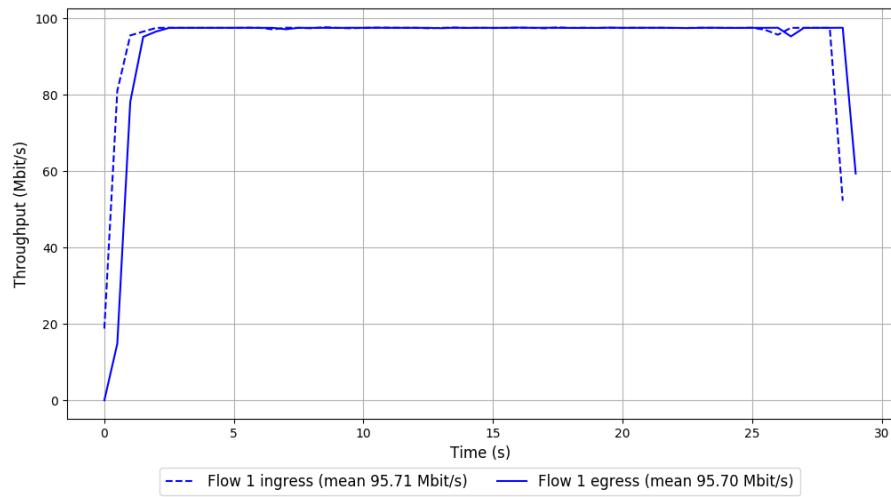


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2020-02-17 23:06:50
End at: 2020-02-17 23:07:20
Local clock offset: 4.464 ms
Remote clock offset: 5.758 ms

# Below is generated by plot.py at 2020-02-18 00:07:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 37.235 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 37.235 ms
Loss rate: 0.00%
```

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

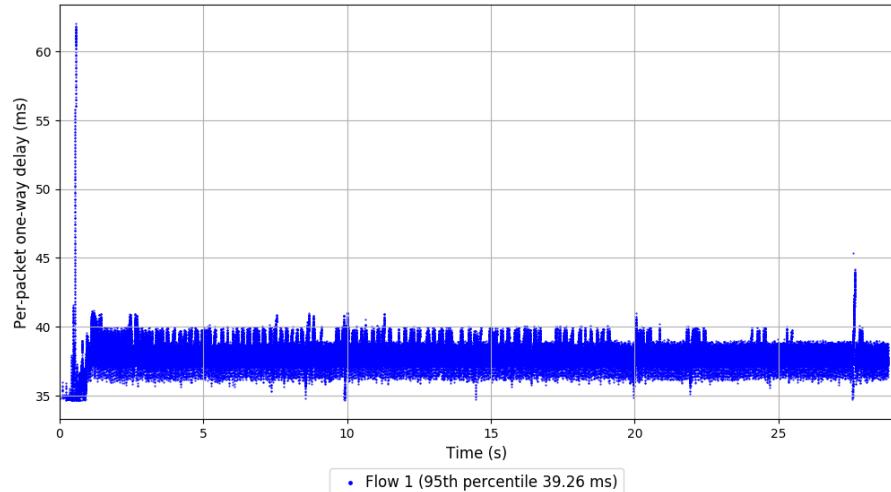
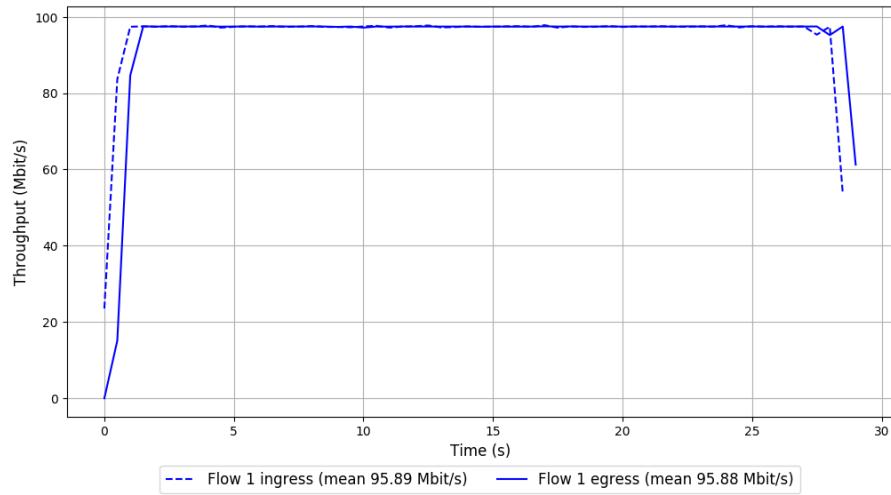


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2020-02-17 23:36:52
End at: 2020-02-17 23:37:22
Local clock offset: 4.302 ms
Remote clock offset: 5.571 ms

# Below is generated by plot.py at 2020-02-18 00:07:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.88 Mbit/s
95th percentile per-packet one-way delay: 39.264 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.88 Mbit/s
95th percentile per-packet one-way delay: 39.264 ms
Loss rate: 0.00%
```

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

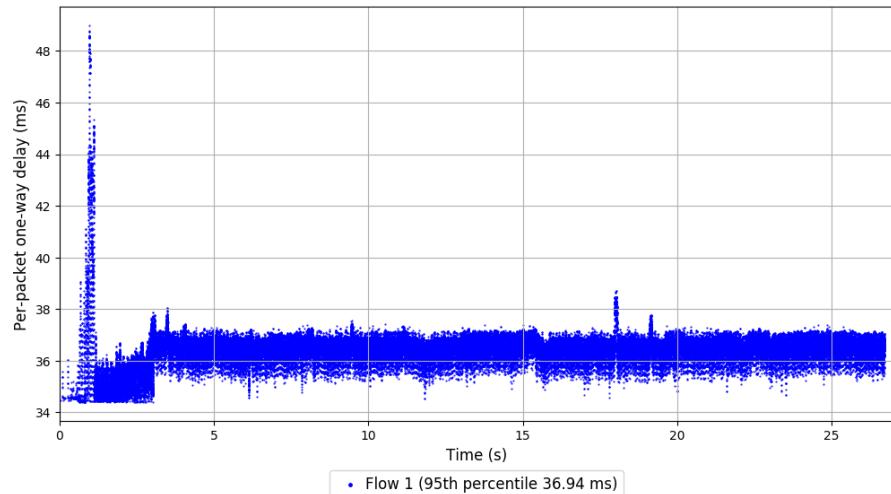
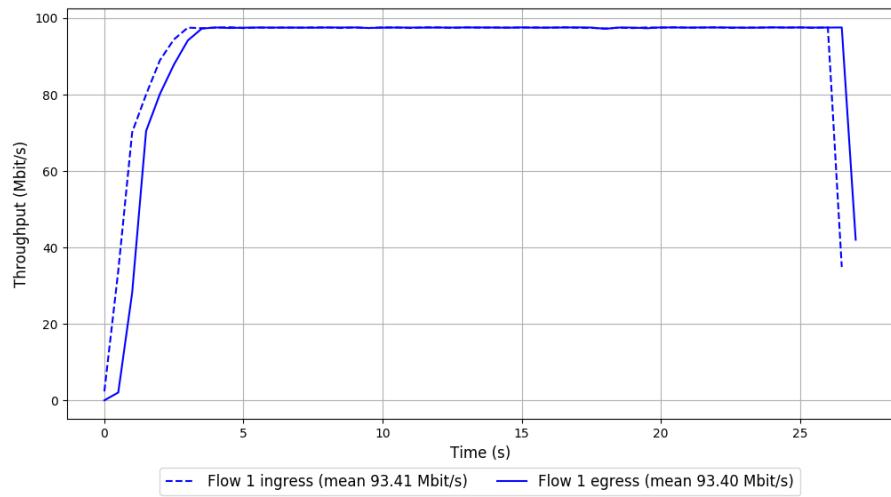


Run 1: Statistics of Indigo-MusesD

```
Start at: 2020-02-17 21:30:51
End at: 2020-02-17 21:31:21
Local clock offset: 4.308 ms
Remote clock offset: 5.754 ms

# Below is generated by plot.py at 2020-02-18 00:07:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.40 Mbit/s
95th percentile per-packet one-way delay: 36.942 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.40 Mbit/s
95th percentile per-packet one-way delay: 36.942 ms
Loss rate: 0.00%
```

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

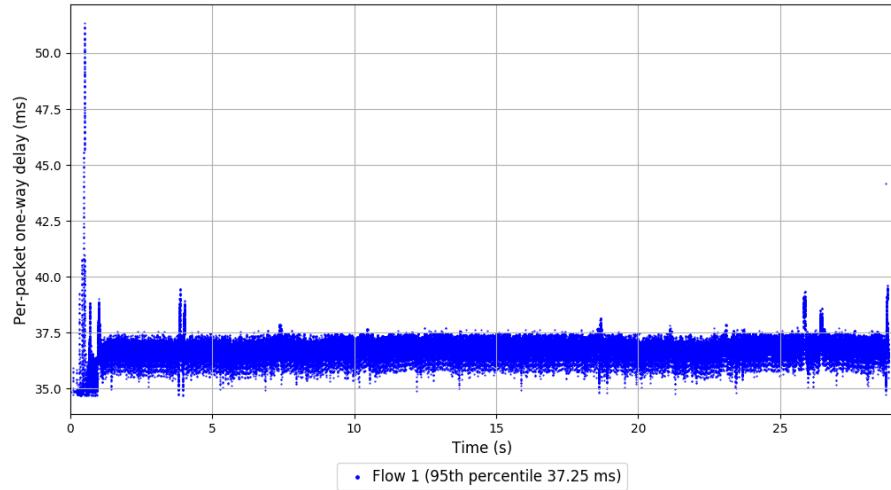
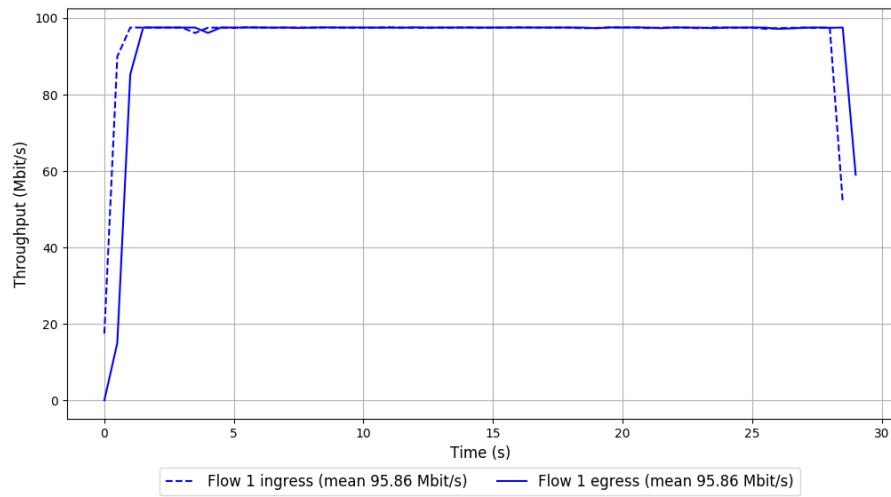


Run 2: Statistics of Indigo-MusesD

```
Start at: 2020-02-17 22:01:38
End at: 2020-02-17 22:02:08
Local clock offset: 5.155 ms
Remote clock offset: 6.009 ms

# Below is generated by plot.py at 2020-02-18 00:07:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 37.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 37.254 ms
Loss rate: 0.00%
```

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

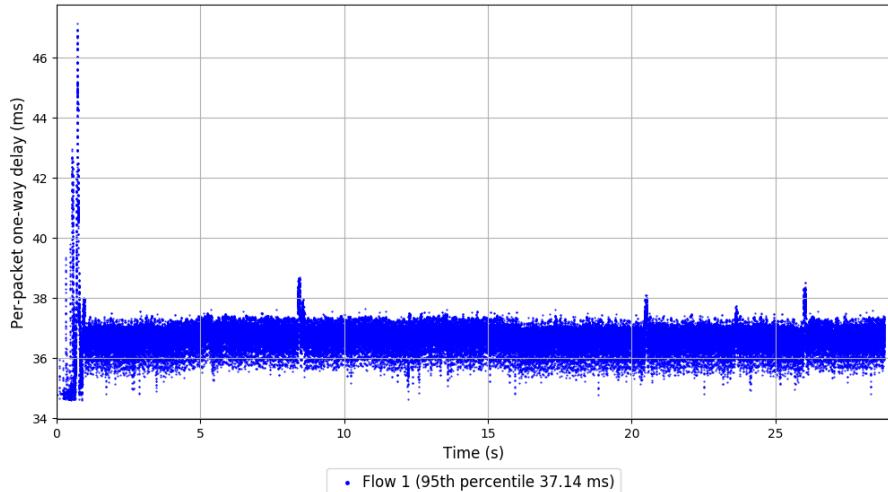
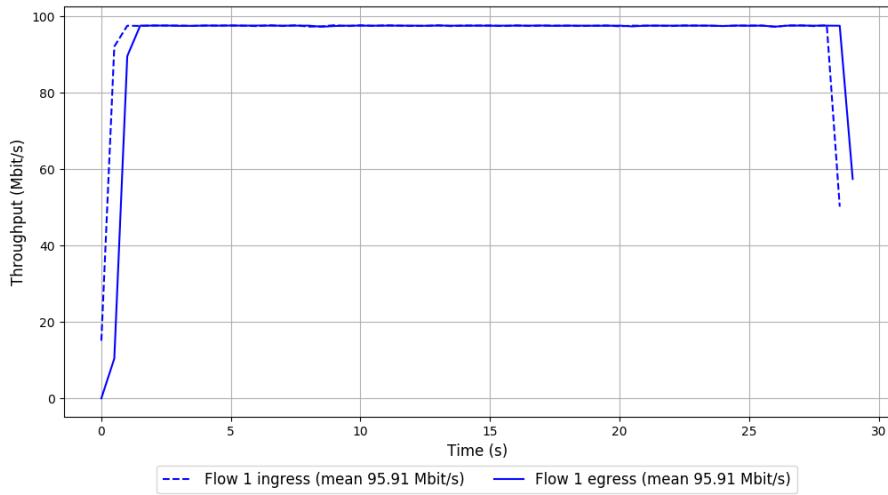


Run 3: Statistics of Indigo-MusesD

```
Start at: 2020-02-17 22:32:19
End at: 2020-02-17 22:32:49
Local clock offset: 5.784 ms
Remote clock offset: 5.851 ms

# Below is generated by plot.py at 2020-02-18 00:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 37.141 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 37.141 ms
Loss rate: 0.00%
```

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

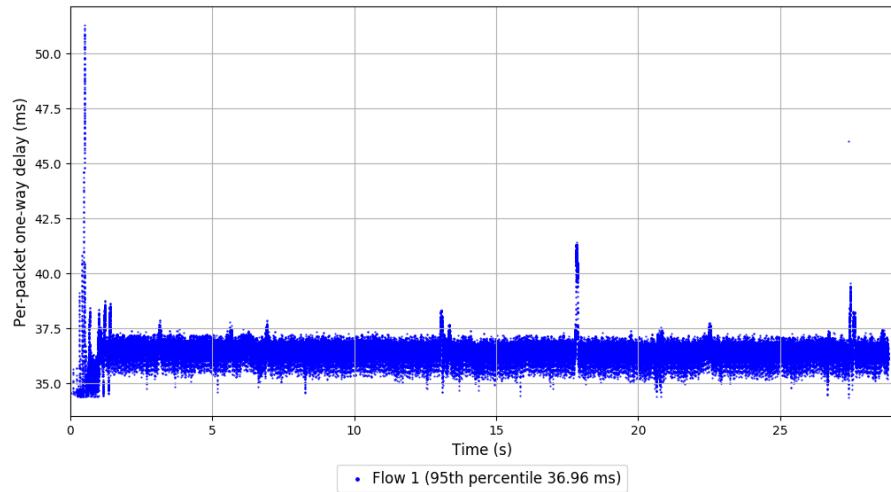
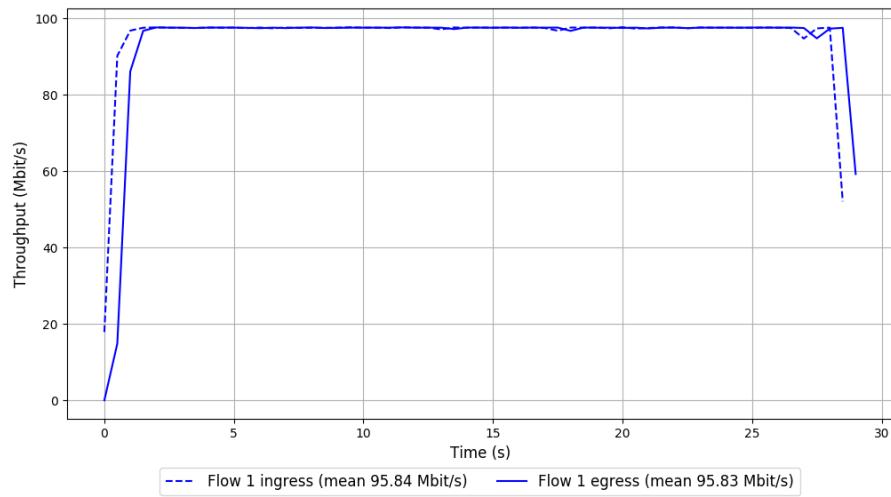


Run 4: Statistics of Indigo-MusesD

```
Start at: 2020-02-17 23:01:41
End at: 2020-02-17 23:02:11
Local clock offset: 5.162 ms
Remote clock offset: 5.548 ms

# Below is generated by plot.py at 2020-02-18 00:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 36.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 36.962 ms
Loss rate: 0.00%
```

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

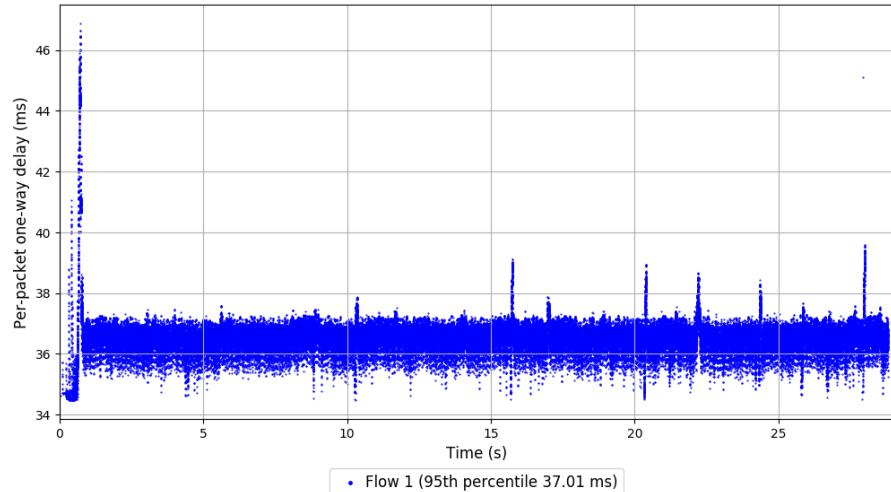
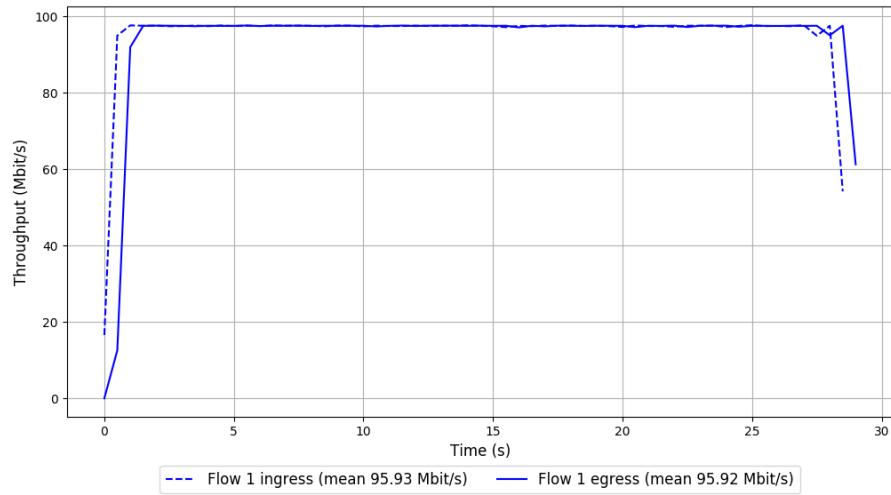


Run 5: Statistics of Indigo-MusesD

```
Start at: 2020-02-17 23:31:55
End at: 2020-02-17 23:32:25
Local clock offset: 4.061 ms
Remote clock offset: 5.472 ms

# Below is generated by plot.py at 2020-02-18 00:08:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 37.009 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 37.009 ms
Loss rate: 0.00%
```

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

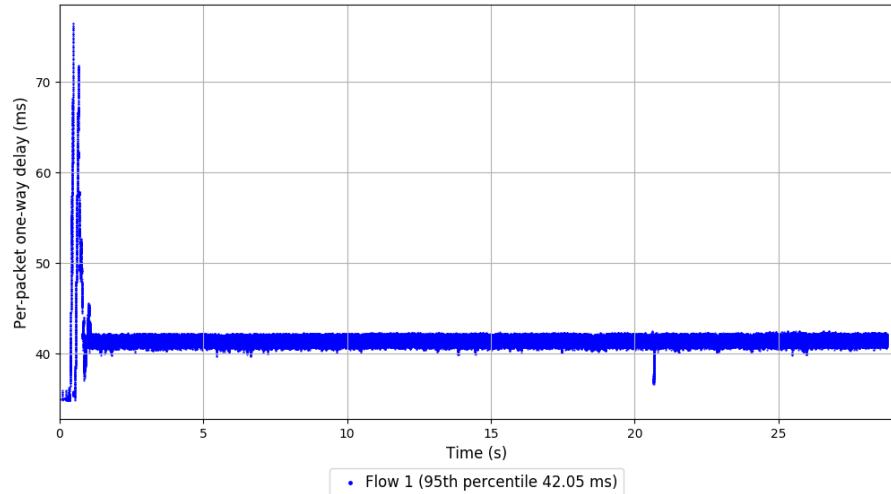
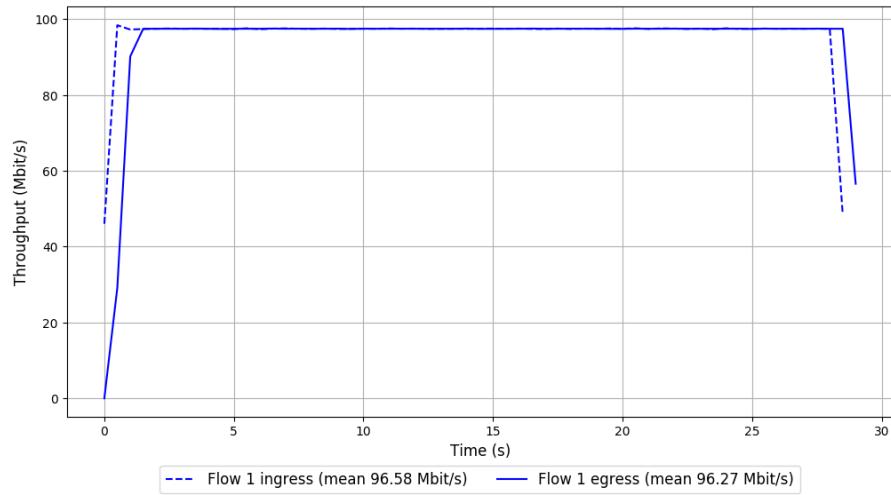


Run 1: Statistics of Indigo-MusesT

```
Start at: 2020-02-17 21:34:22
End at: 2020-02-17 21:34:52
Local clock offset: 4.929 ms
Remote clock offset: 5.771 ms

# Below is generated by plot.py at 2020-02-18 00:08:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 42.054 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 42.054 ms
Loss rate: 0.30%
```

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

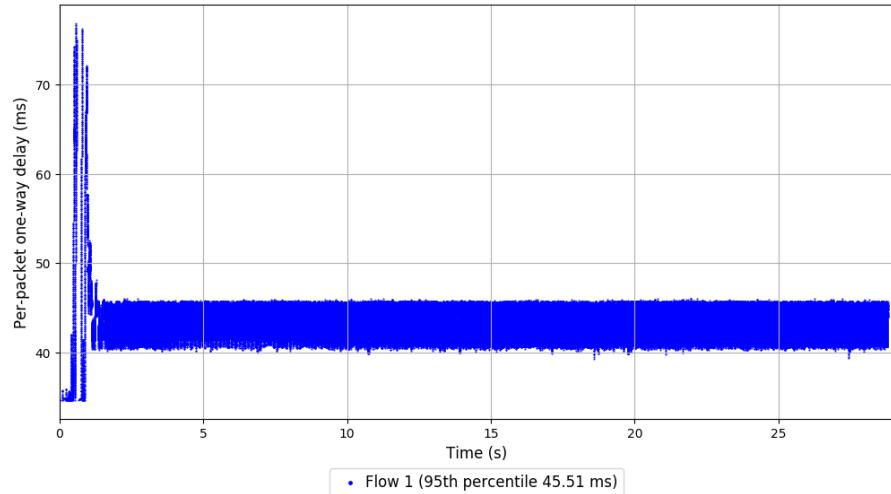
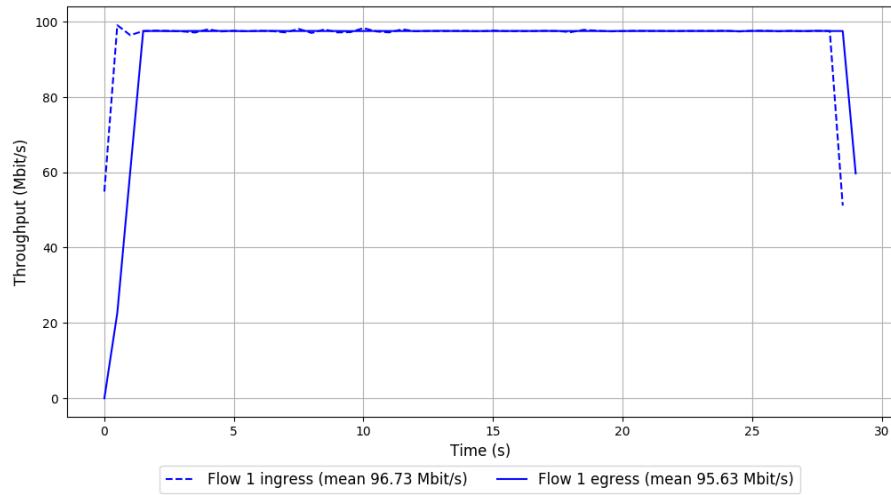


Run 2: Statistics of Indigo-MusesT

```
Start at: 2020-02-17 22:05:43
End at: 2020-02-17 22:06:13
Local clock offset: 5.23 ms
Remote clock offset: 6.11 ms

# Below is generated by plot.py at 2020-02-18 00:08:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 45.506 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 45.506 ms
Loss rate: 1.10%
```

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

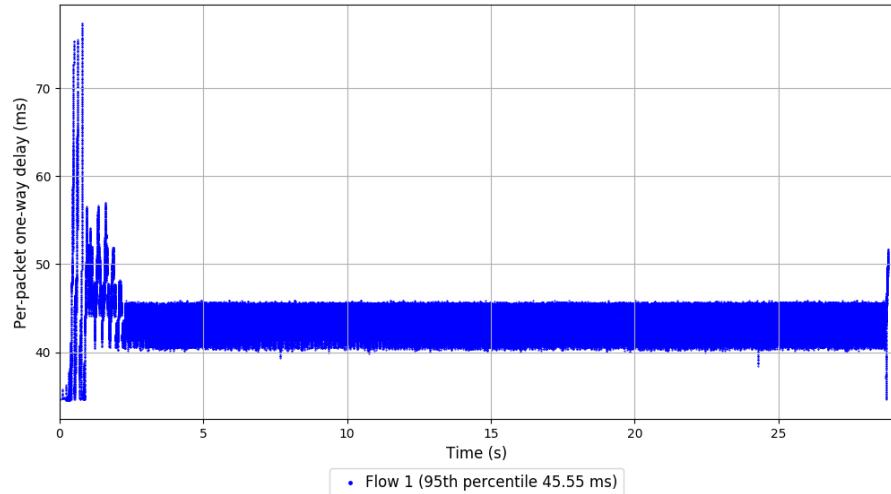
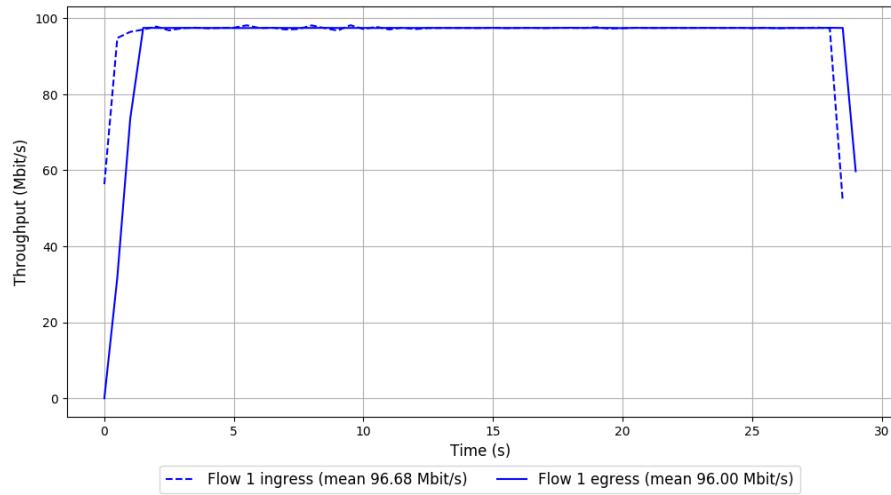


Run 3: Statistics of Indigo-MusesT

```
Start at: 2020-02-17 22:36:06
End at: 2020-02-17 22:36:36
Local clock offset: 5.68 ms
Remote clock offset: 5.766 ms

# Below is generated by plot.py at 2020-02-18 00:09:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 45.547 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 45.547 ms
Loss rate: 0.65%
```

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

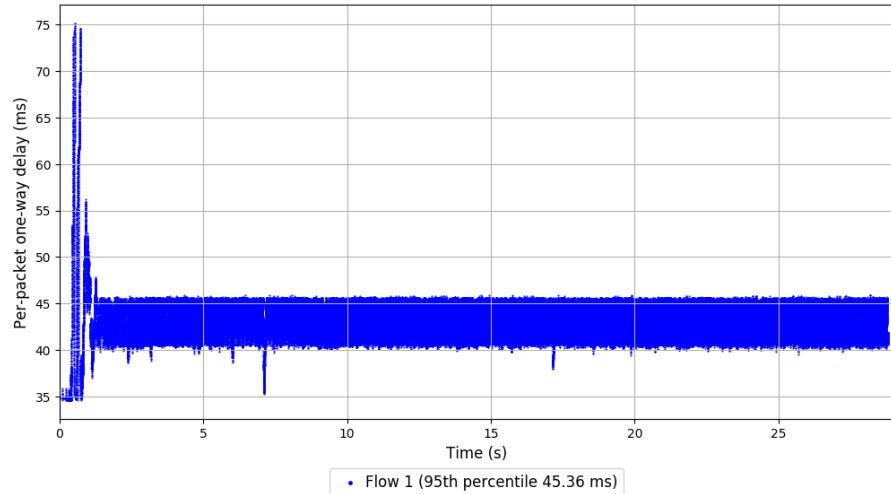
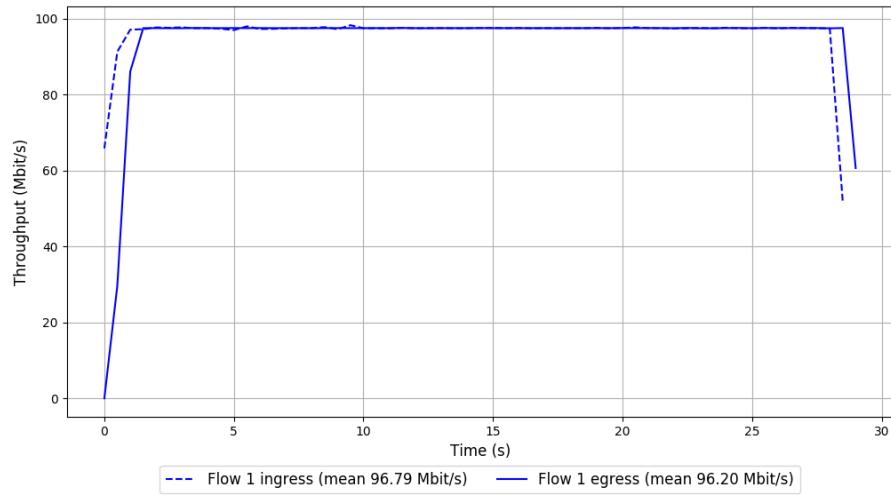


Run 4: Statistics of Indigo-MusesT

```
Start at: 2020-02-17 23:05:34
End at: 2020-02-17 23:06:04
Local clock offset: 4.603 ms
Remote clock offset: 5.714 ms

# Below is generated by plot.py at 2020-02-18 00:09:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 45.359 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 45.359 ms
Loss rate: 0.58%
```

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

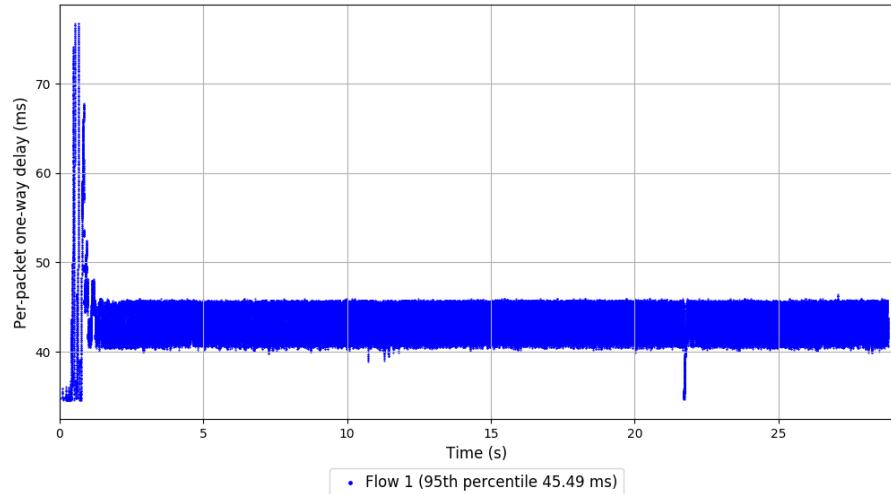
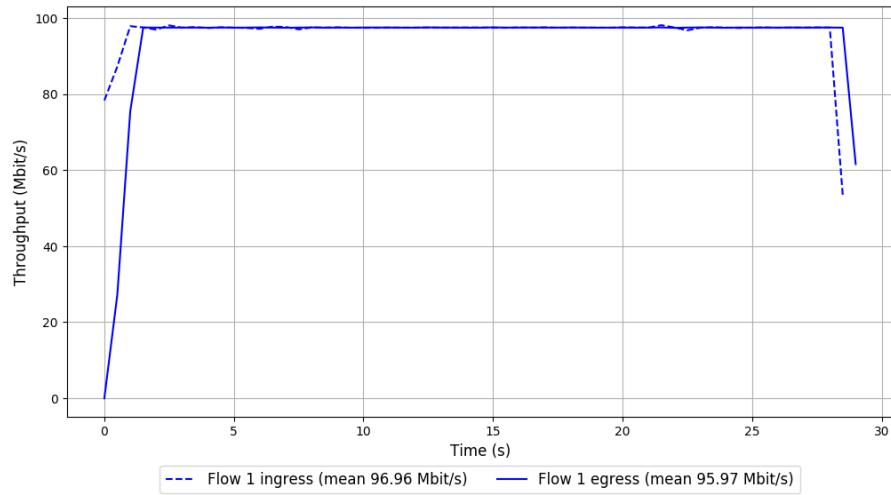


Run 5: Statistics of Indigo-MusesT

```
Start at: 2020-02-17 23:35:36
End at: 2020-02-17 23:36:06
Local clock offset: 4.301 ms
Remote clock offset: 5.641 ms

# Below is generated by plot.py at 2020-02-18 00:09:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 45.492 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 45.492 ms
Loss rate: 0.98%
```

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

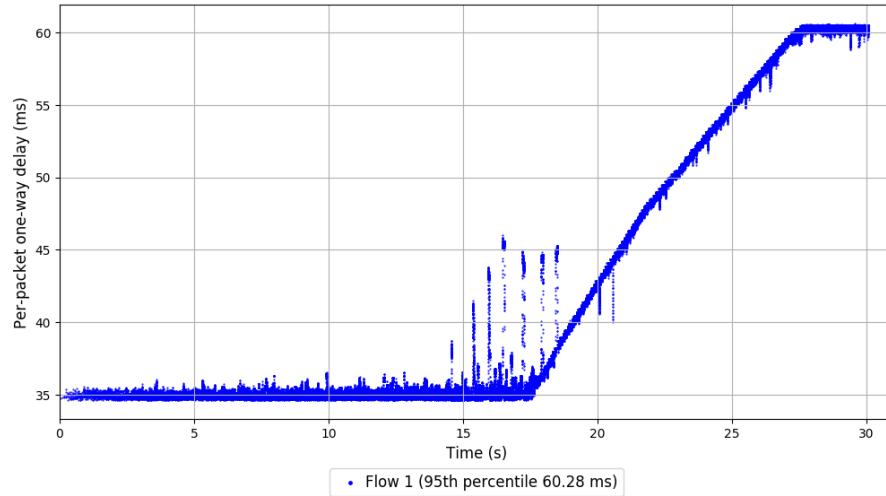
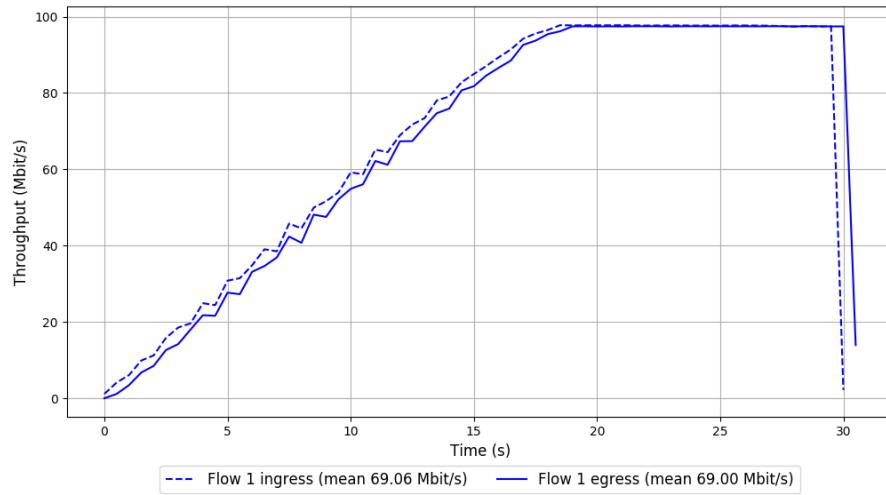


```
Run 1: Statistics of LEDBAT

Start at: 2020-02-17 21:43:21
End at: 2020-02-17 21:43:51
Local clock offset: 4.632 ms
Remote clock offset: 5.783 ms

# Below is generated by plot.py at 2020-02-18 00:09:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.00 Mbit/s
95th percentile per-packet one-way delay: 60.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.00 Mbit/s
95th percentile per-packet one-way delay: 60.284 ms
Loss rate: 0.00%
```

## Run 1: Report of LEDBAT — Data Link

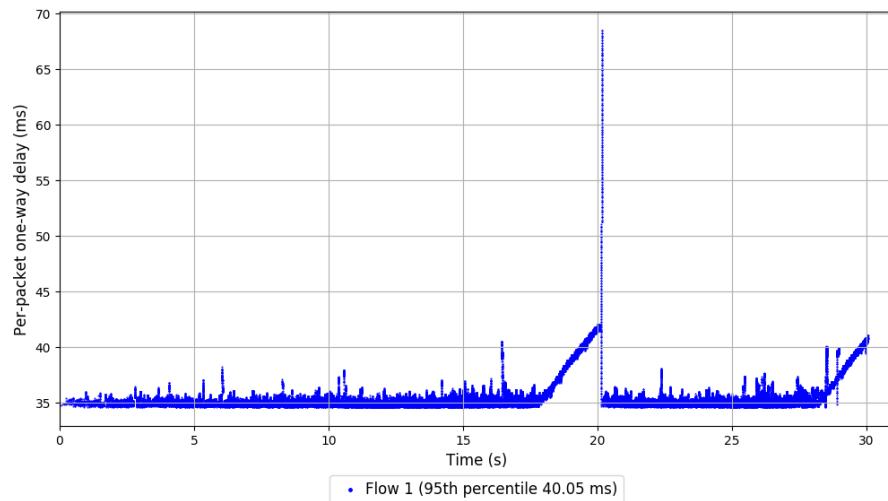
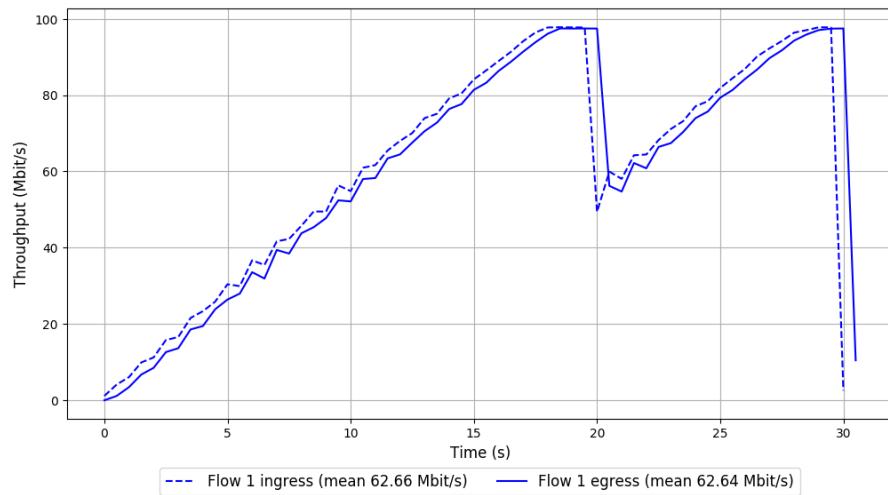


Run 2: Statistics of LEDBAT

```
Start at: 2020-02-17 22:15:14
End at: 2020-02-17 22:15:44
Local clock offset: 5.568 ms
Remote clock offset: 6.116 ms

# Below is generated by plot.py at 2020-02-18 00:09:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.64 Mbit/s
95th percentile per-packet one-way delay: 40.045 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.64 Mbit/s
95th percentile per-packet one-way delay: 40.045 ms
Loss rate: 0.00%
```

## Run 2: Report of LEDBAT — Data Link

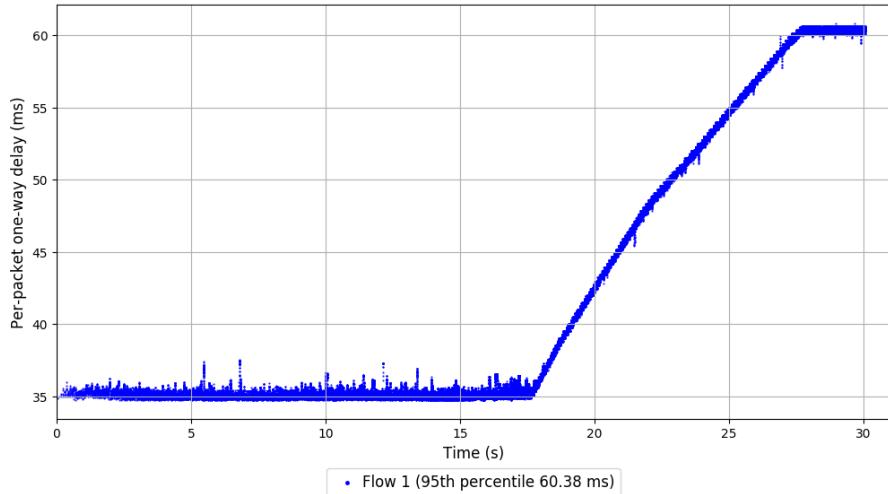
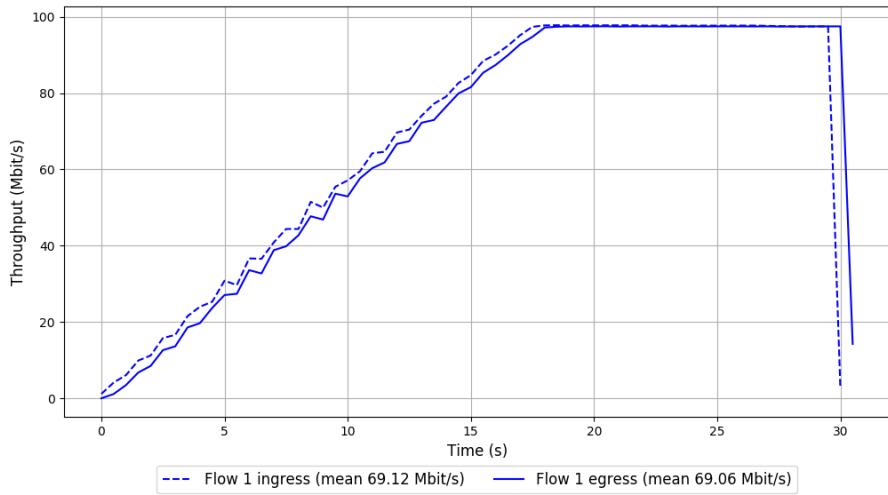


Run 3: Statistics of LEDBAT

```
Start at: 2020-02-17 22:44:39
End at: 2020-02-17 22:45:09
Local clock offset: 5.696 ms
Remote clock offset: 5.953 ms

# Below is generated by plot.py at 2020-02-18 00:09:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.06 Mbit/s
95th percentile per-packet one-way delay: 60.376 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.06 Mbit/s
95th percentile per-packet one-way delay: 60.376 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

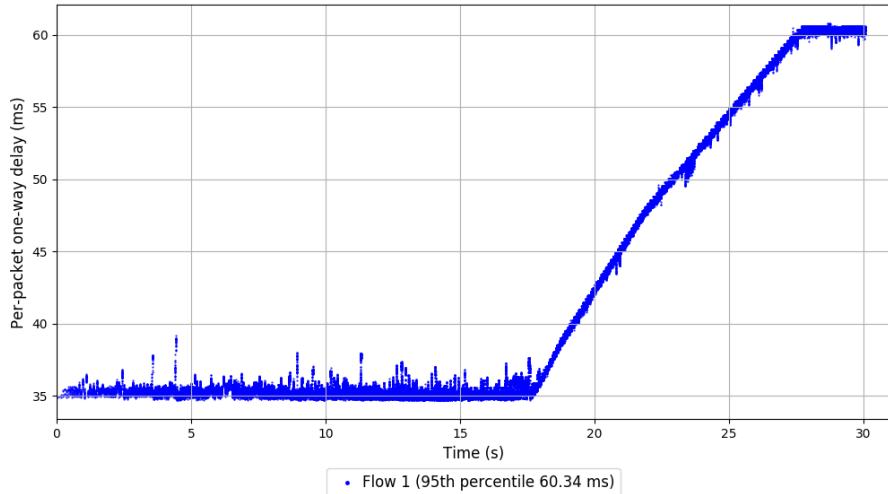
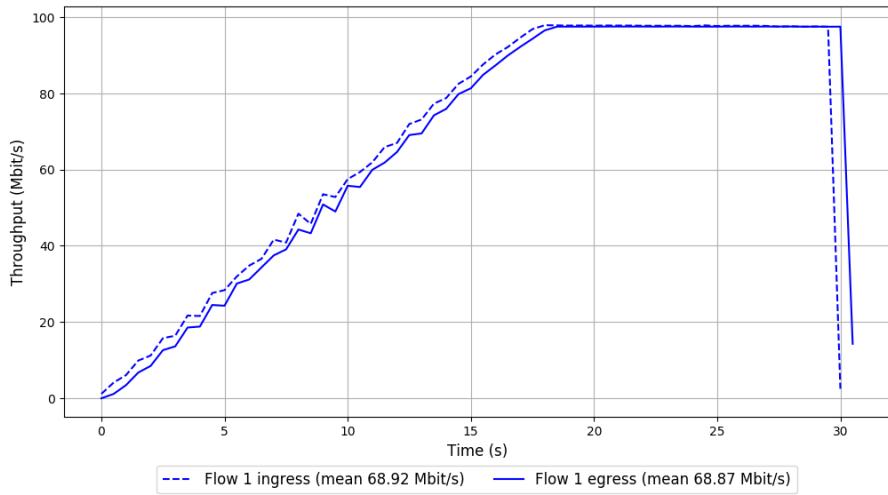


Run 4: Statistics of LEDBAT

```
Start at: 2020-02-17 23:14:19
End at: 2020-02-17 23:14:49
Local clock offset: 3.992 ms
Remote clock offset: 5.736 ms

# Below is generated by plot.py at 2020-02-18 00:09:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.87 Mbit/s
95th percentile per-packet one-way delay: 60.339 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.87 Mbit/s
95th percentile per-packet one-way delay: 60.339 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

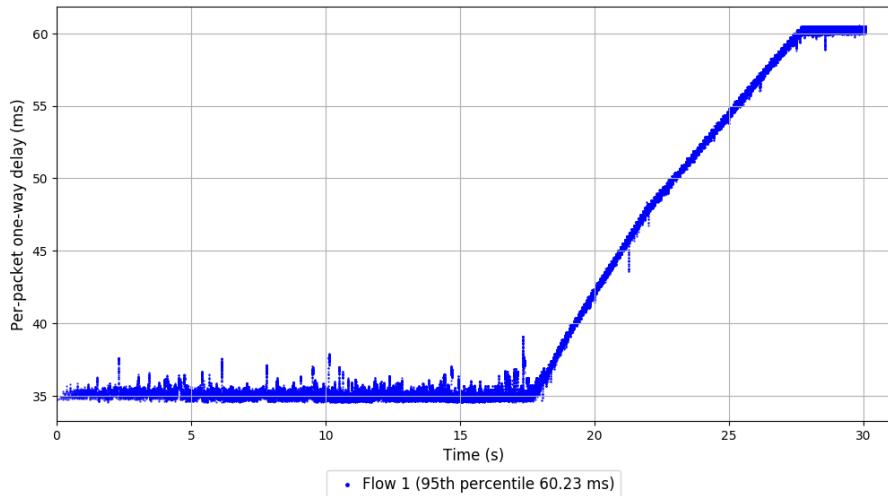
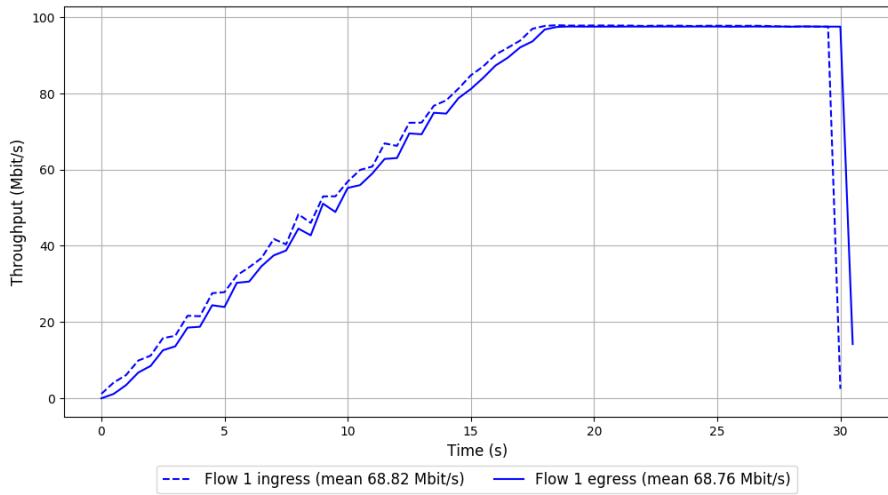


Run 5: Statistics of LEDBAT

```
Start at: 2020-02-17 23:44:21
End at: 2020-02-17 23:44:51
Local clock offset: 4.599 ms
Remote clock offset: 5.572 ms

# Below is generated by plot.py at 2020-02-18 00:09:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.76 Mbit/s
95th percentile per-packet one-way delay: 60.234 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.76 Mbit/s
95th percentile per-packet one-way delay: 60.234 ms
Loss rate: 0.00%
```

## Run 5: Report of LEDBAT — Data Link

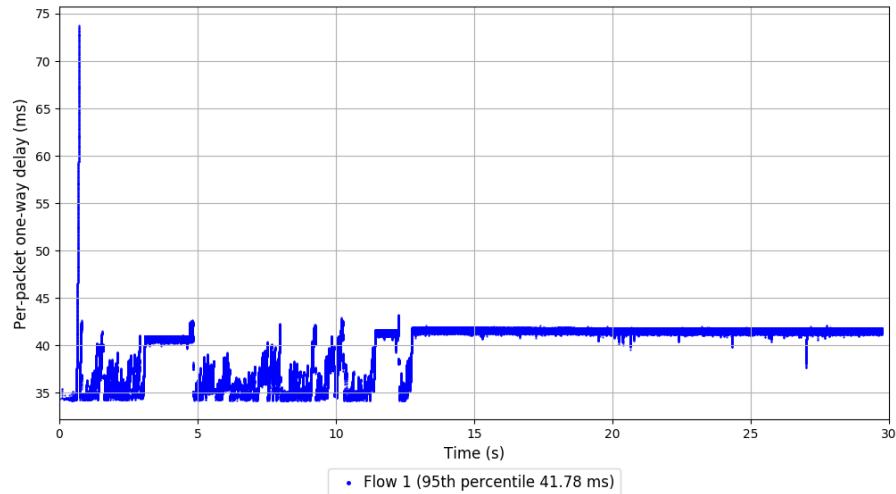
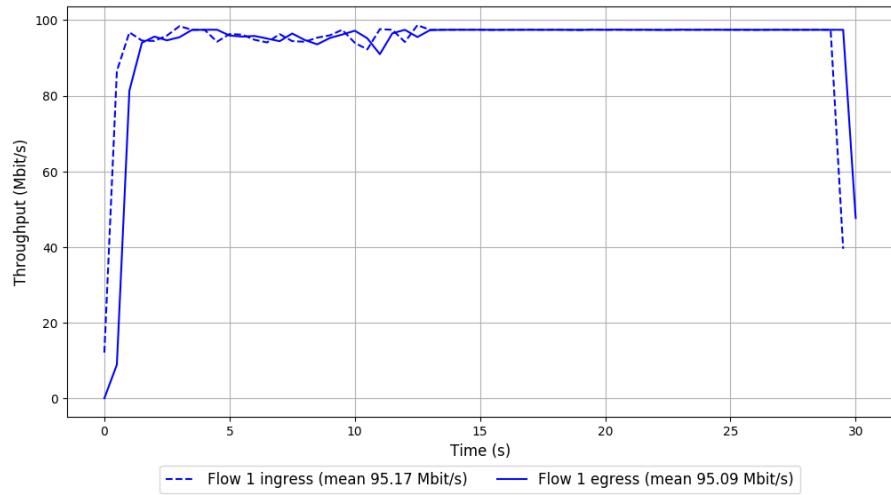


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2020-02-17 21:36:49
End at: 2020-02-17 21:37:19
Local clock offset: 5.294 ms
Remote clock offset: 5.621 ms

# Below is generated by plot.py at 2020-02-18 00:10:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 41.785 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 41.785 ms
Loss rate: 0.06%
```

Run 1: Report of Muses\_DecisionTree — Data Link

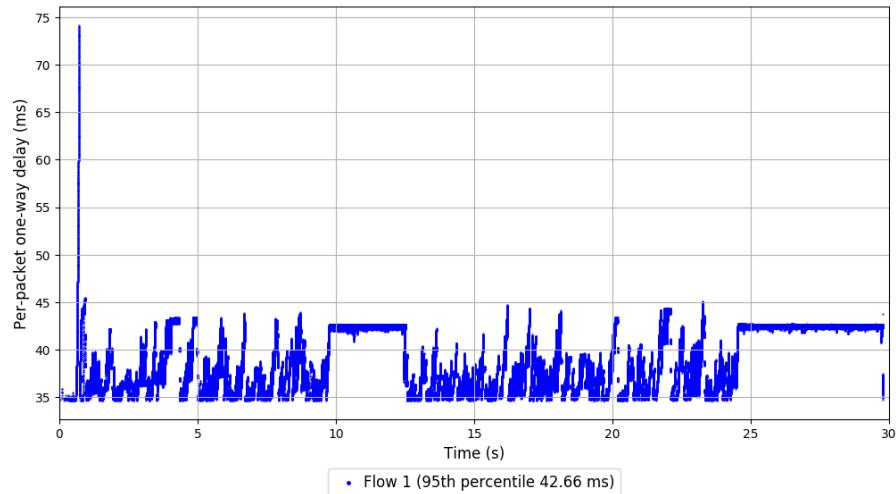
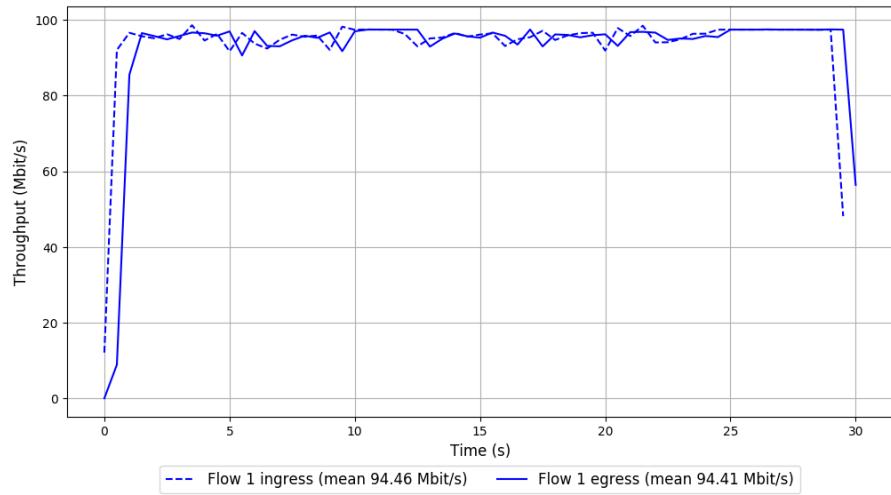


```
Run 2: Statistics of Muses\_DecisionTree
```

```
Start at: 2020-02-17 22:08:28
End at: 2020-02-17 22:08:58
Local clock offset: 5.302 ms
Remote clock offset: 6.096 ms

# Below is generated by plot.py at 2020-02-18 00:10:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.41 Mbit/s
95th percentile per-packet one-way delay: 42.660 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 94.41 Mbit/s
95th percentile per-packet one-way delay: 42.660 ms
Loss rate: 0.05%
```

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

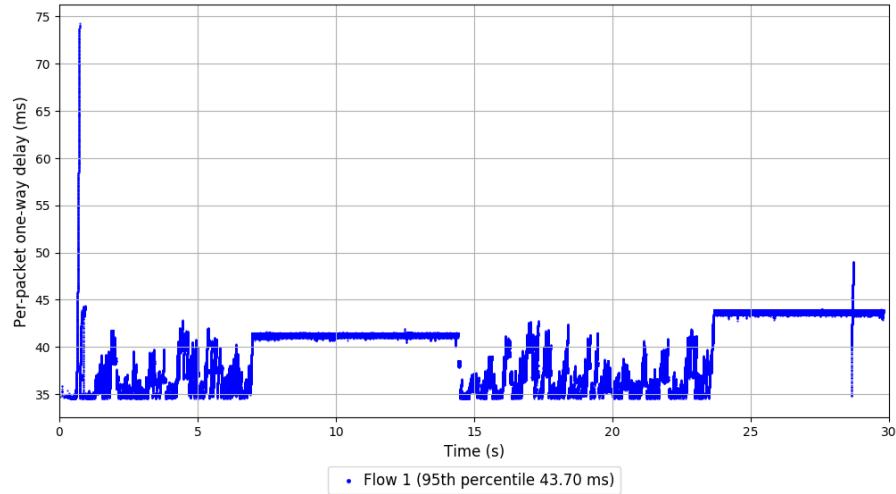
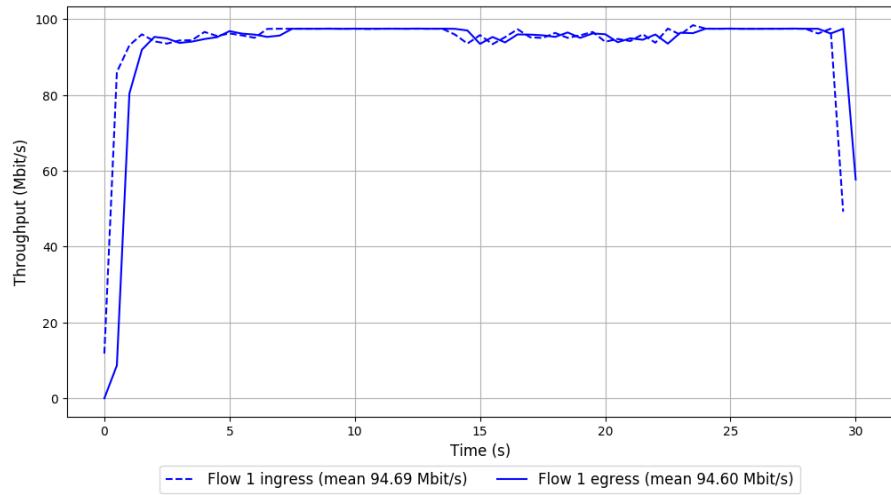


```
Run 3: Statistics of Muses\_DecisionTree
```

```
Start at: 2020-02-17 22:38:41
End at: 2020-02-17 22:39:11
Local clock offset: 5.615 ms
Remote clock offset: 5.732 ms

# Below is generated by plot.py at 2020-02-18 00:10:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.60 Mbit/s
95th percentile per-packet one-way delay: 43.702 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 94.60 Mbit/s
95th percentile per-packet one-way delay: 43.702 ms
Loss rate: 0.05%
```

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

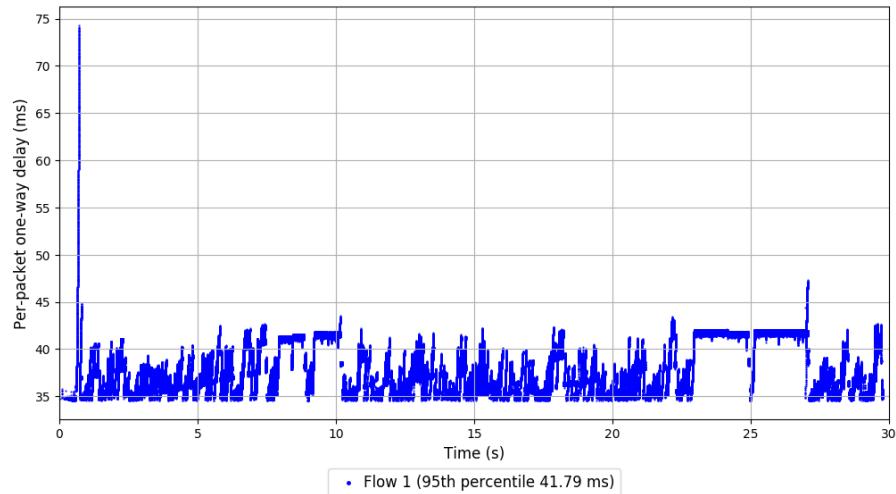
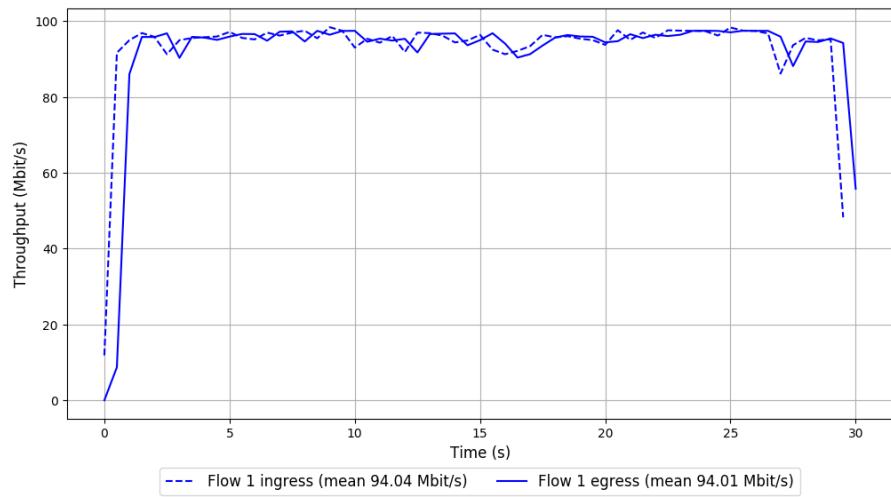


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2020-02-17 23:08:07
End at: 2020-02-17 23:08:37
Local clock offset: 4.367 ms
Remote clock offset: 5.727 ms

# Below is generated by plot.py at 2020-02-18 00:10:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 41.789 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 41.789 ms
Loss rate: 0.03%
```

Run 4: Report of Muses\_DecisionTree — Data Link

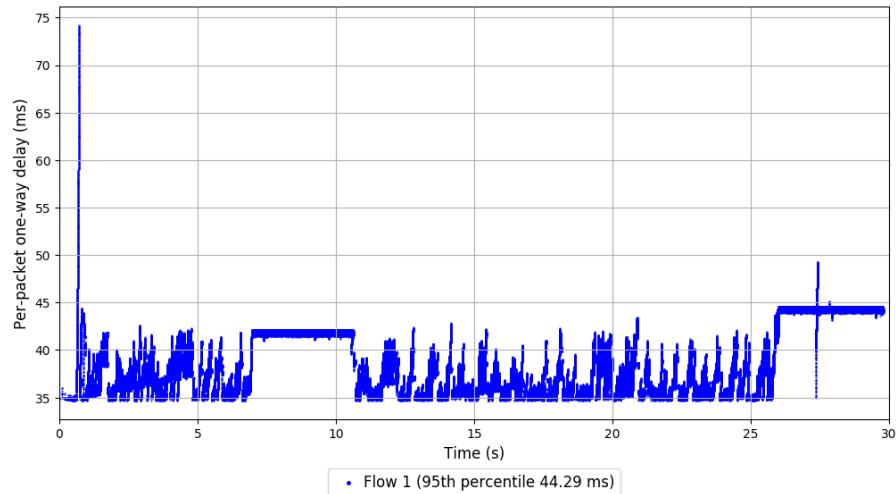
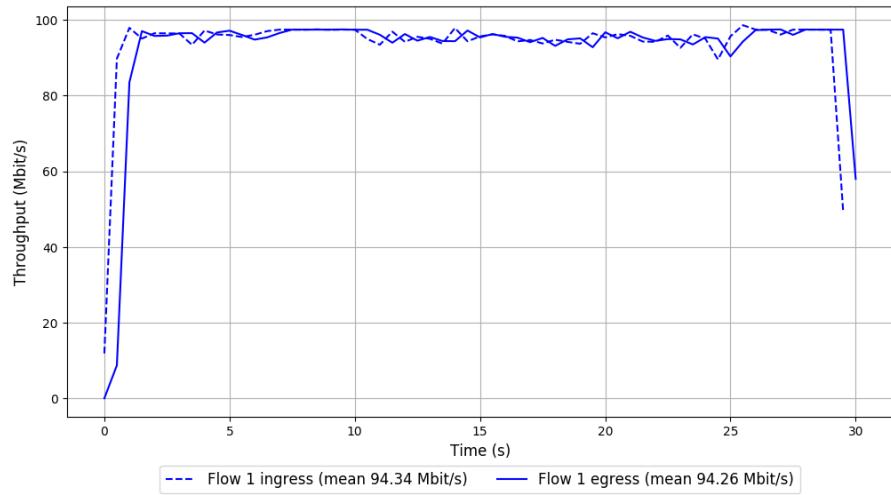


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2020-02-17 23:38:10
End at: 2020-02-17 23:38:40
Local clock offset: 4.38 ms
Remote clock offset: 5.624 ms

# Below is generated by plot.py at 2020-02-18 00:10:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 44.292 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 44.292 ms
Loss rate: 0.05%
```

Run 5: Report of Muses\_DecisionTree — Data Link

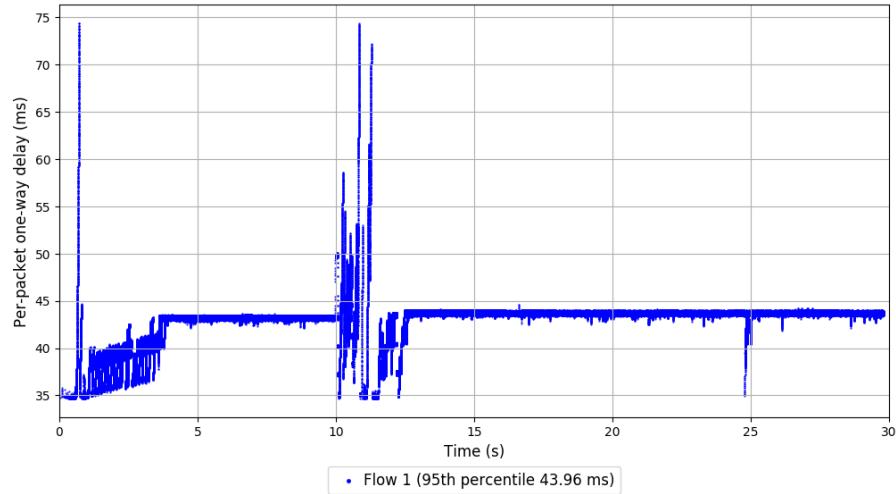
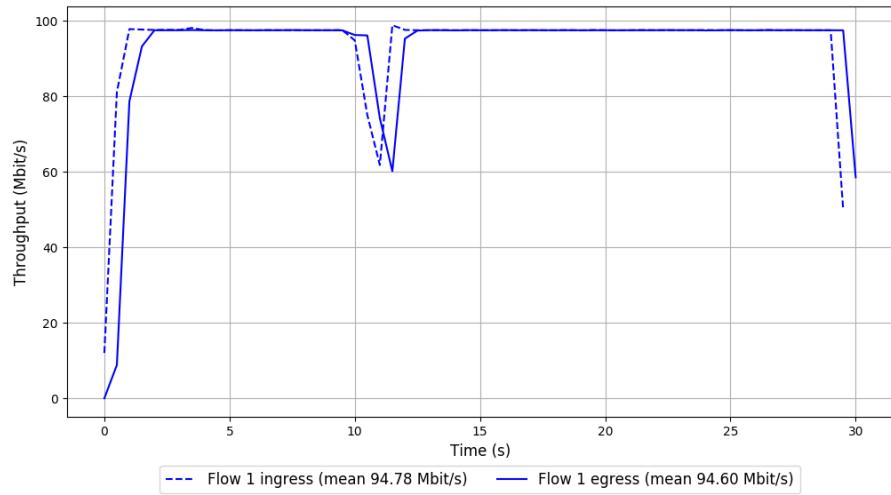


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-17 21:44:44
End at: 2020-02-17 21:45:14
Local clock offset: 4.633 ms
Remote clock offset: 5.725 ms

# Below is generated by plot.py at 2020-02-18 00:10:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.60 Mbit/s
95th percentile per-packet one-way delay: 43.961 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 94.60 Mbit/s
95th percentile per-packet one-way delay: 43.961 ms
Loss rate: 0.16%
```

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

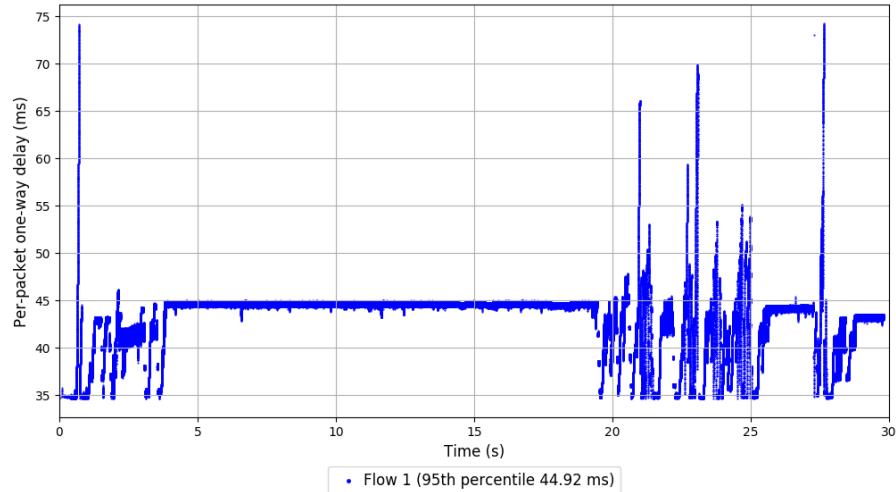
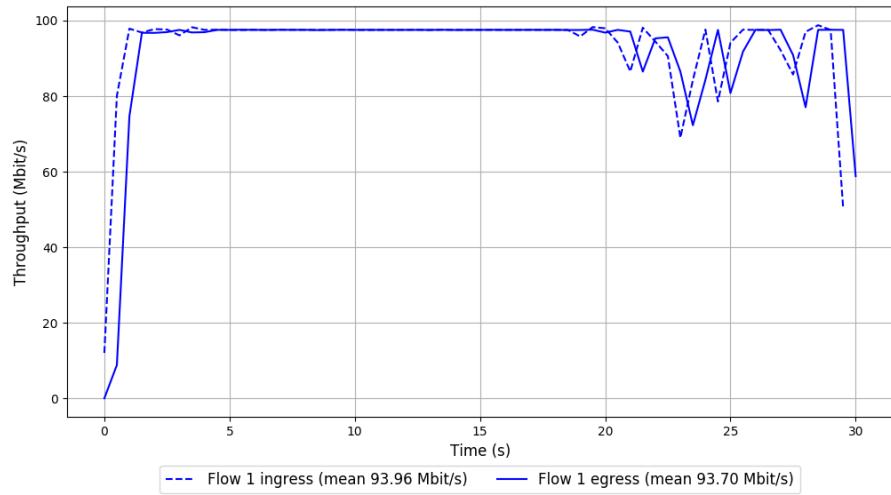


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-17 22:16:33
End at: 2020-02-17 22:17:03
Local clock offset: 5.644 ms
Remote clock offset: 6.22 ms

# Below is generated by plot.py at 2020-02-18 00:10:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 44.923 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 44.923 ms
Loss rate: 0.24%
```

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

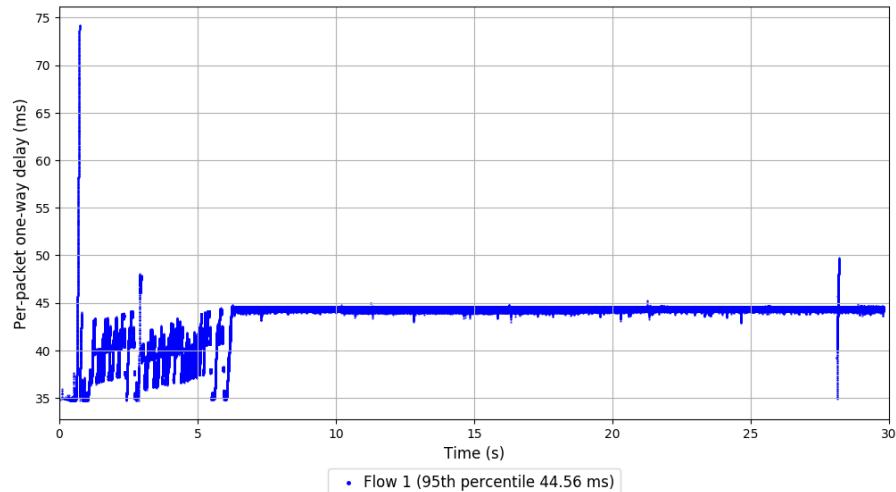
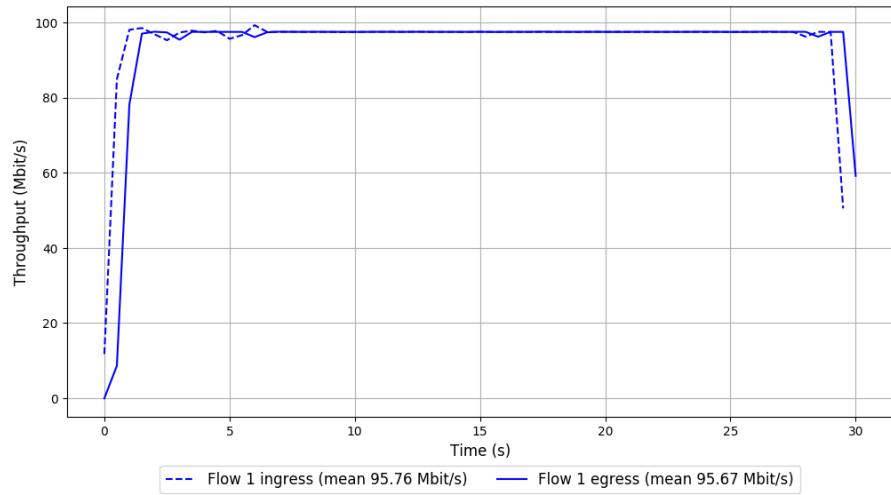


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-17 22:45:53
End at: 2020-02-17 22:46:23
Local clock offset: 5.69 ms
Remote clock offset: 5.86 ms

# Below is generated by plot.py at 2020-02-18 00:10:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 44.556 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 44.556 ms
Loss rate: 0.06%
```

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

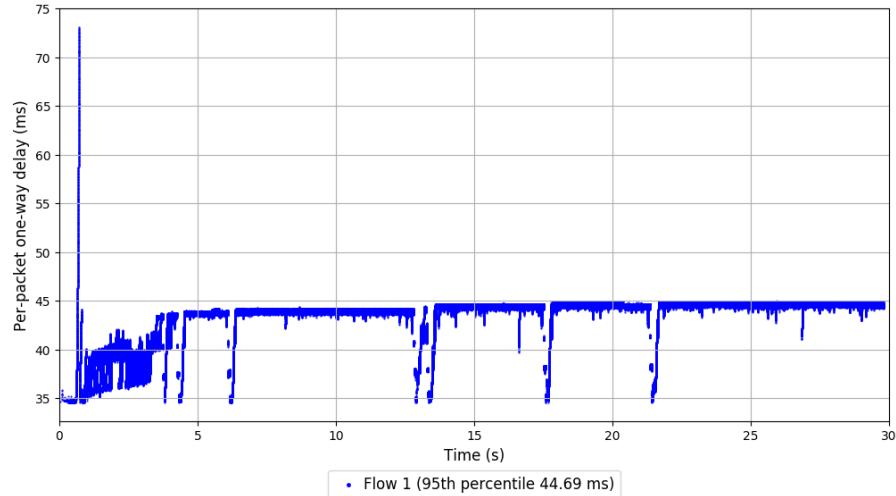
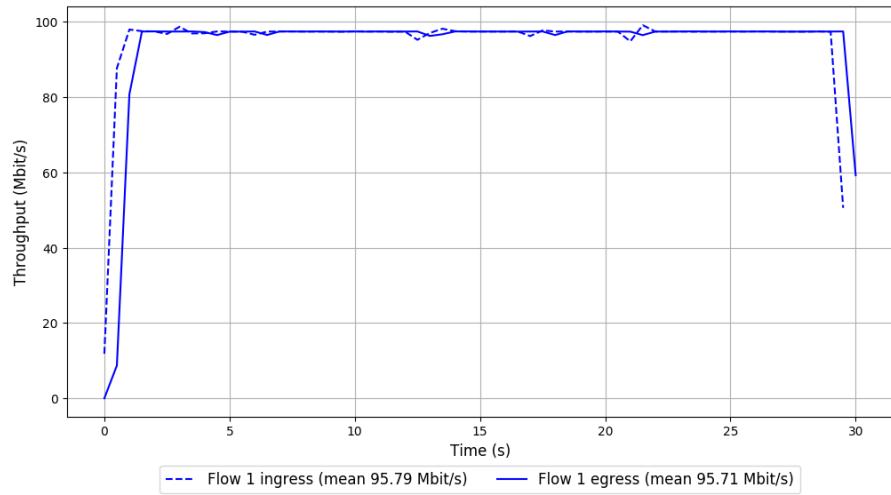


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-17 23:15:35
End at: 2020-02-17 23:16:05
Local clock offset: 3.946 ms
Remote clock offset: 5.614 ms

# Below is generated by plot.py at 2020-02-18 00:11:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 44.687 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 44.687 ms
Loss rate: 0.05%
```

Run 4: Report of Muses\_DecisionTreeH0 — Data Link

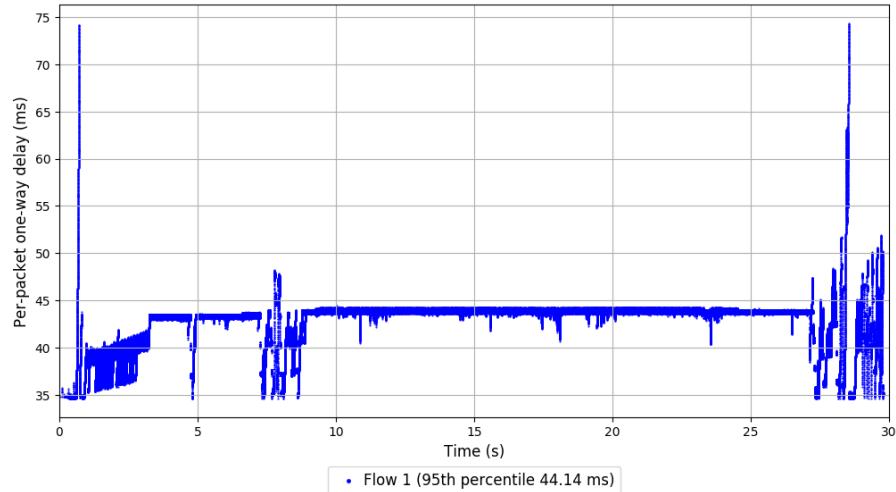
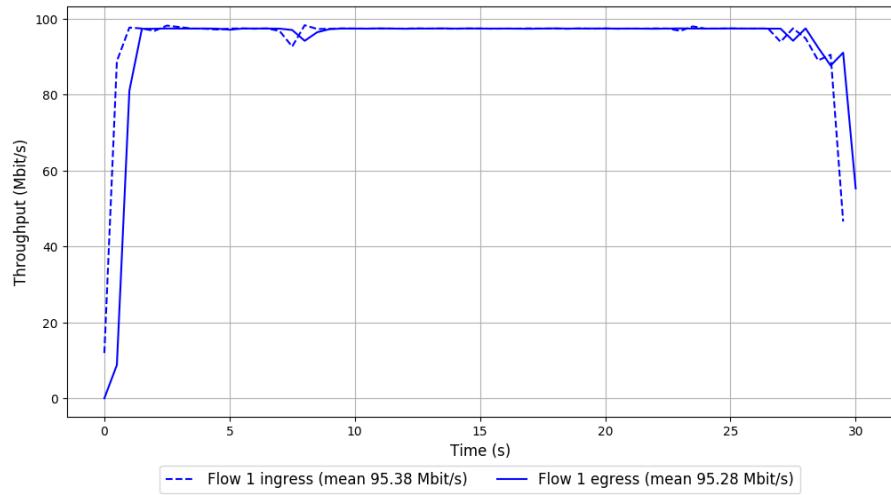


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-17 23:45:39
End at: 2020-02-17 23:46:09
Local clock offset: 4.597 ms
Remote clock offset: 5.542 ms

# Below is generated by plot.py at 2020-02-18 00:11:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 44.141 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 44.141 ms
Loss rate: 0.11%
```

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

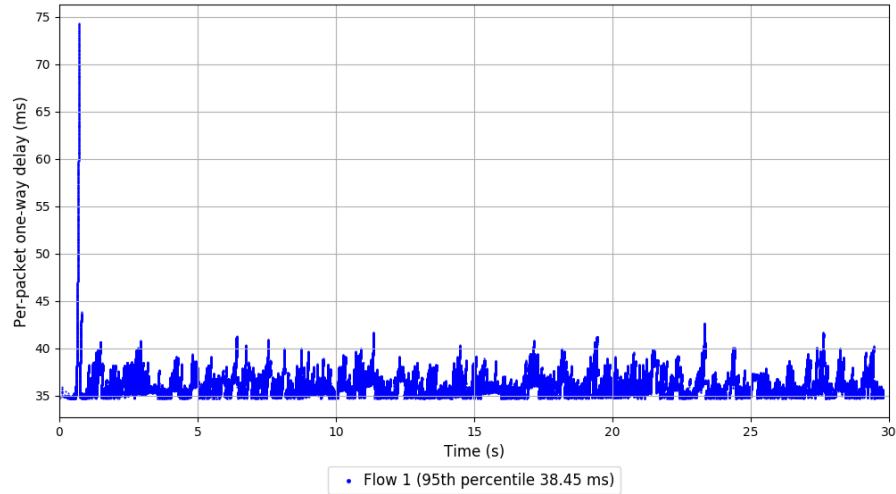
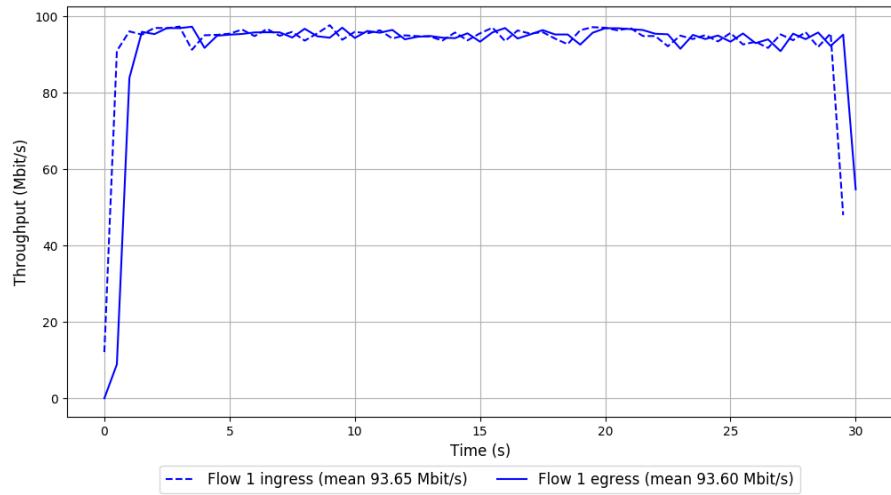


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-17 21:52:32
End at: 2020-02-17 21:53:02
Local clock offset: 4.889 ms
Remote clock offset: 5.933 ms

# Below is generated by plot.py at 2020-02-18 00:11:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.60 Mbit/s
95th percentile per-packet one-way delay: 38.447 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 93.60 Mbit/s
95th percentile per-packet one-way delay: 38.447 ms
Loss rate: 0.06%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

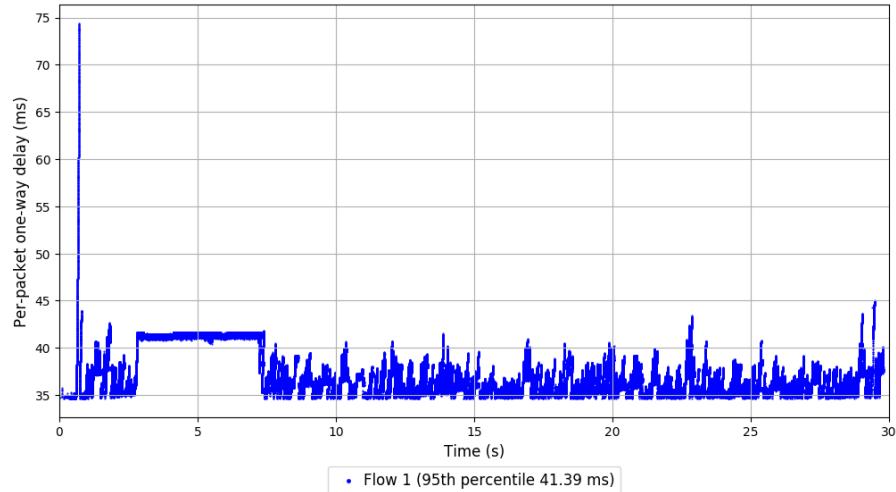
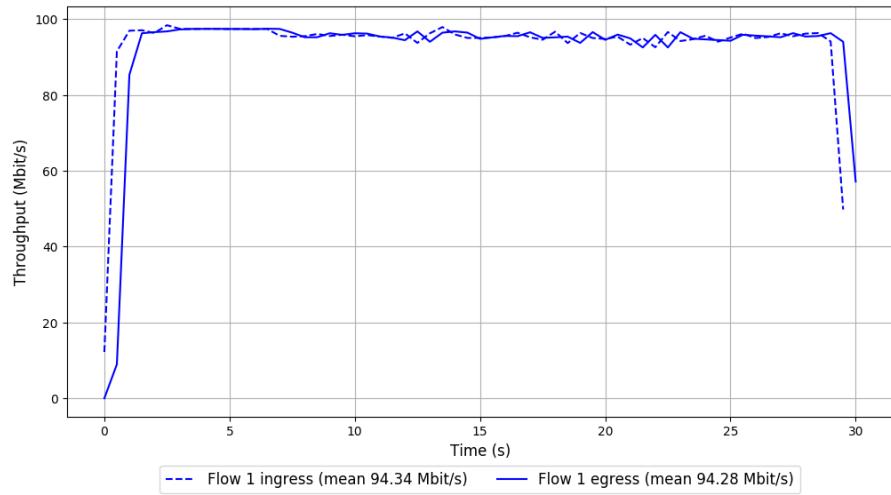


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-17 22:24:04
End at: 2020-02-17 22:24:34
Local clock offset: 5.924 ms
Remote clock offset: 5.991 ms

# Below is generated by plot.py at 2020-02-18 00:11:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 41.390 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 41.390 ms
Loss rate: 0.06%
```

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

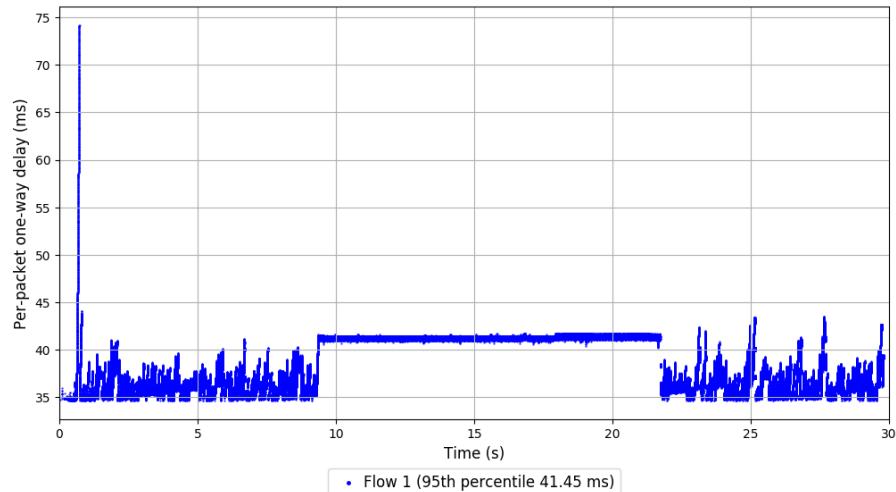
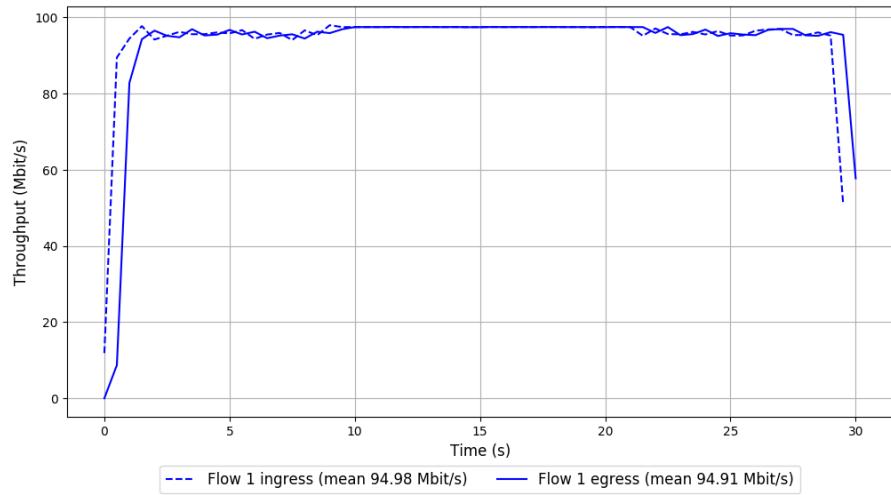


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-17 22:53:07
End at: 2020-02-17 22:53:37
Local clock offset: 5.816 ms
Remote clock offset: 5.828 ms

# Below is generated by plot.py at 2020-02-18 00:11:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 41.447 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 41.447 ms
Loss rate: 0.06%
```

Run 3: Report of Muses\_DecisionTreeR0 — Data Link

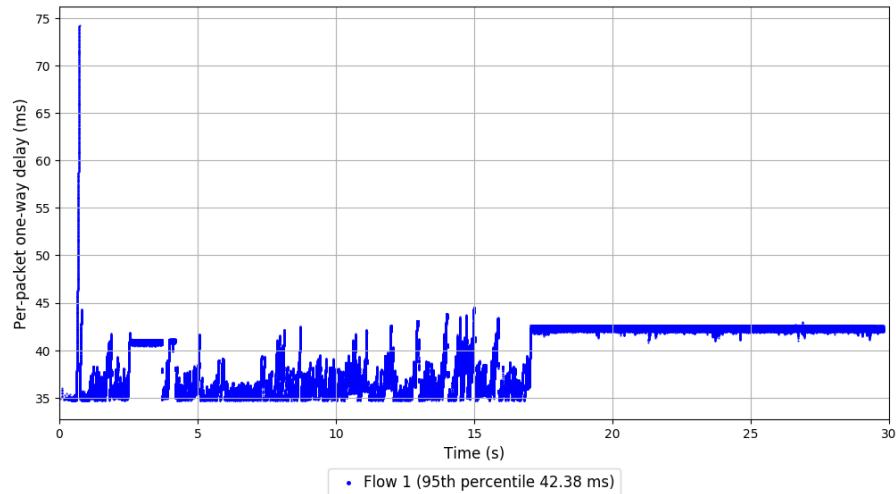
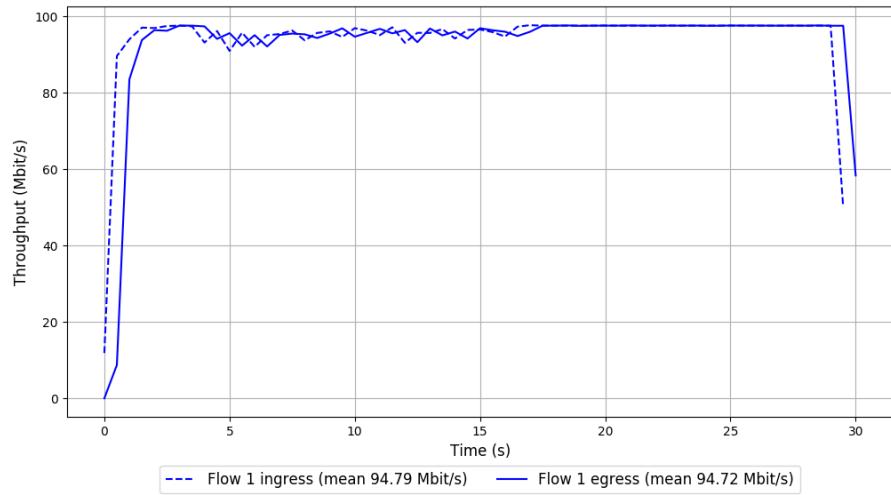


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-17 23:23:09
End at: 2020-02-17 23:23:39
Local clock offset: 3.728 ms
Remote clock offset: 5.702 ms

# Below is generated by plot.py at 2020-02-18 00:11:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.72 Mbit/s
95th percentile per-packet one-way delay: 42.375 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 94.72 Mbit/s
95th percentile per-packet one-way delay: 42.375 ms
Loss rate: 0.05%
```

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

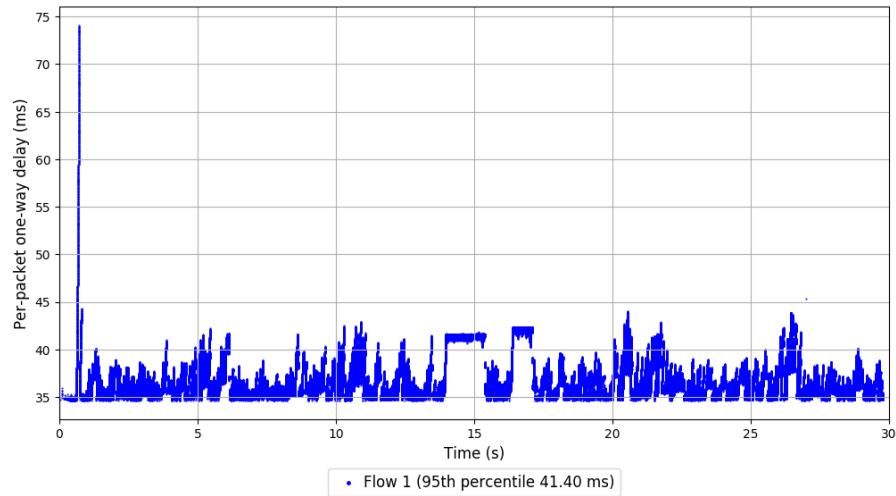
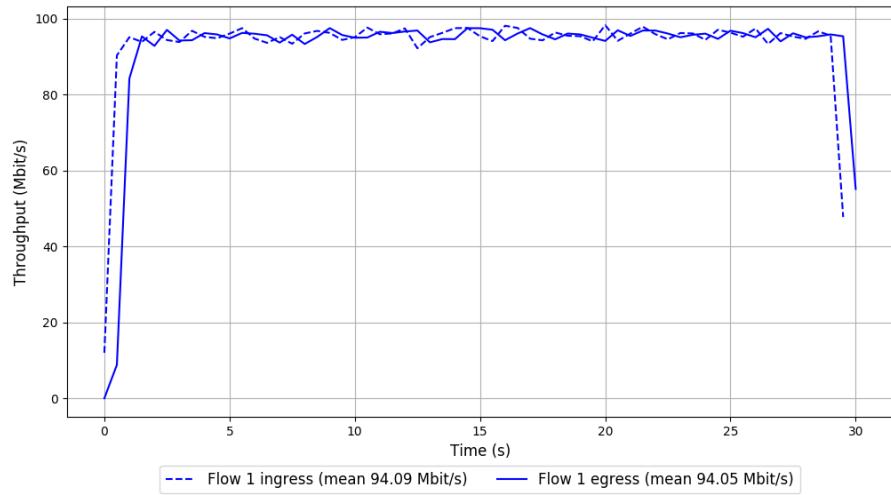


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-17 23:53:21
End at: 2020-02-17 23:53:51
Local clock offset: 4.704 ms
Remote clock offset: 5.466 ms

# Below is generated by plot.py at 2020-02-18 00:11:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.05 Mbit/s
95th percentile per-packet one-way delay: 41.397 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 94.05 Mbit/s
95th percentile per-packet one-way delay: 41.397 ms
Loss rate: 0.05%
```

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

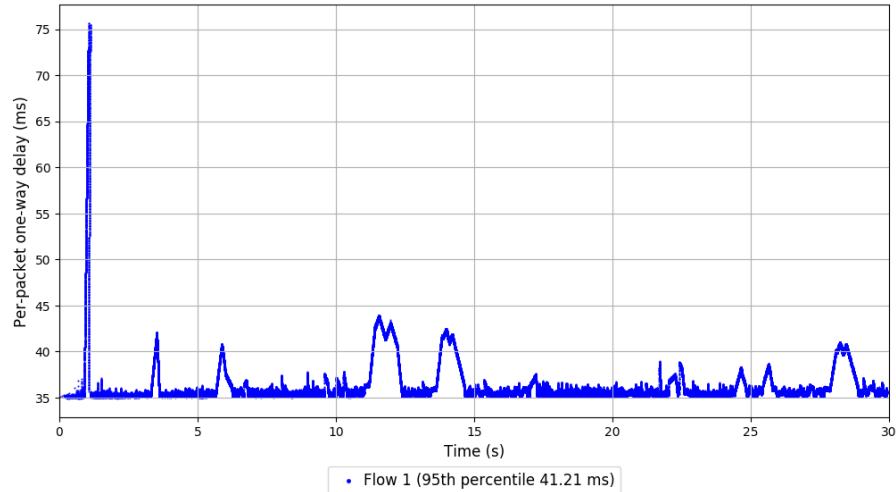
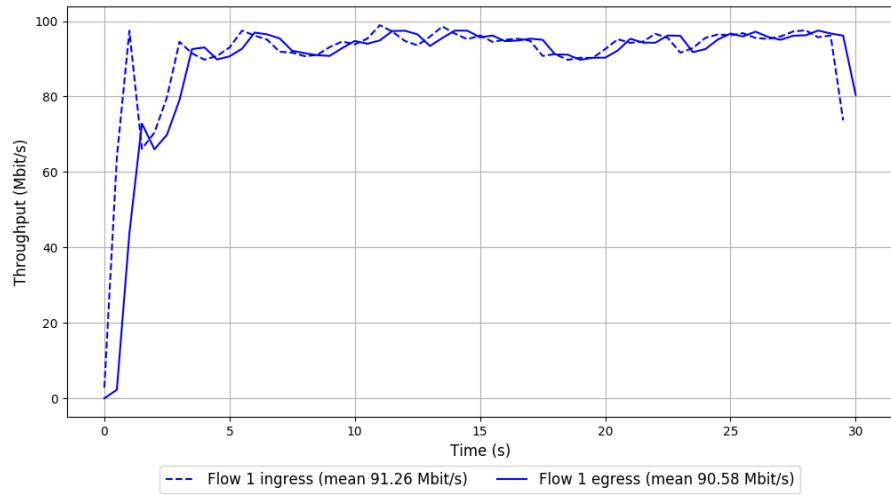


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2020-02-17 21:33:12
End at: 2020-02-17 21:33:42
Local clock offset: 4.485 ms
Remote clock offset: 5.771 ms

# Below is generated by plot.py at 2020-02-18 00:12:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.58 Mbit/s
95th percentile per-packet one-way delay: 41.209 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 90.58 Mbit/s
95th percentile per-packet one-way delay: 41.209 ms
Loss rate: 0.75%
```

Run 1: Report of PCC-Allegro — Data Link

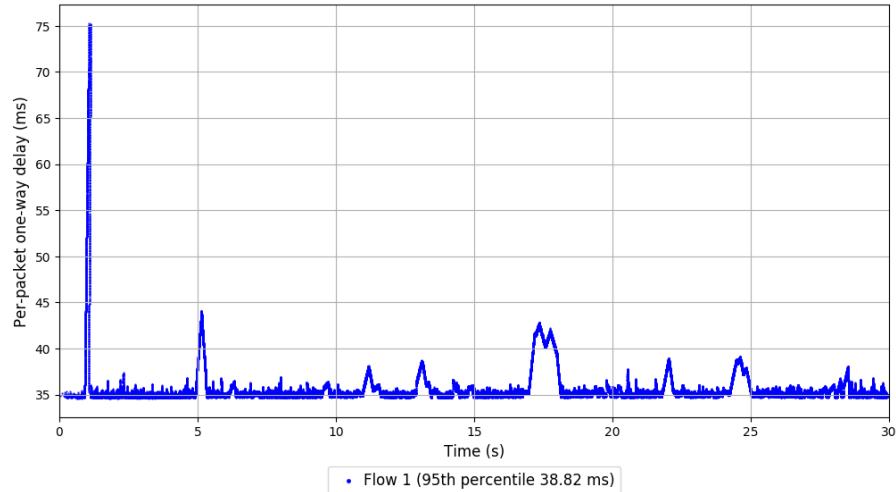
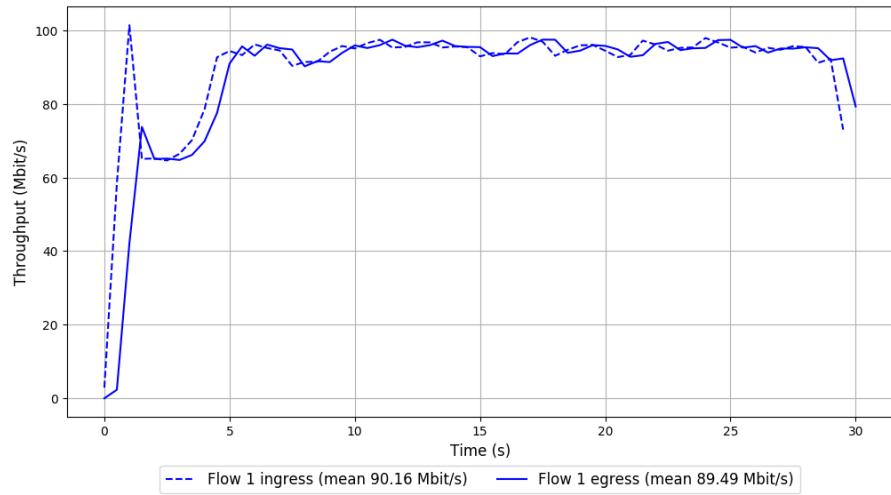


Run 2: Statistics of PCC-Allegro

```
Start at: 2020-02-17 22:04:21
End at: 2020-02-17 22:04:51
Local clock offset: 5.194 ms
Remote clock offset: 6.026 ms

# Below is generated by plot.py at 2020-02-18 00:12:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.49 Mbit/s
95th percentile per-packet one-way delay: 38.818 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 89.49 Mbit/s
95th percentile per-packet one-way delay: 38.818 ms
Loss rate: 0.74%
```

Run 2: Report of PCC-Allegro — Data Link

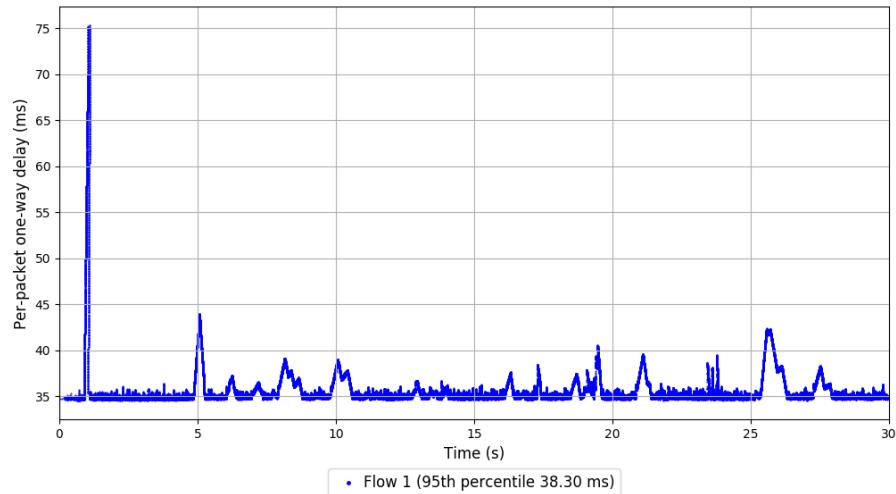
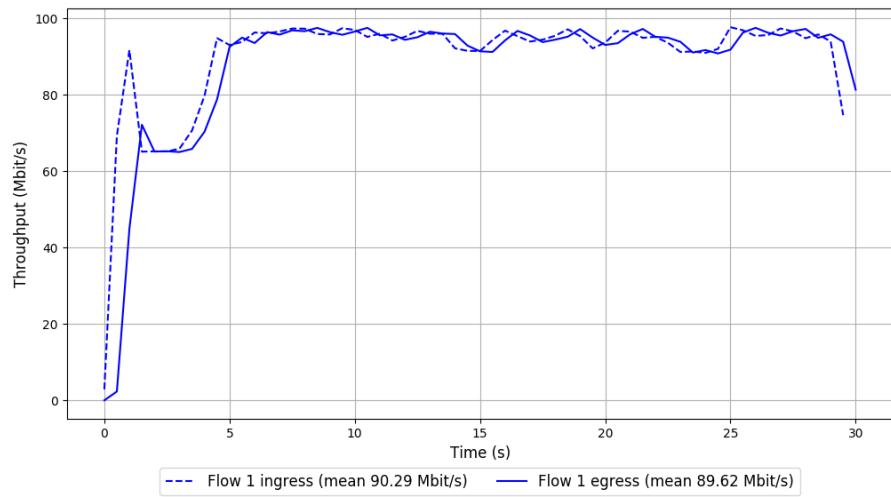


Run 3: Statistics of PCC-Allegro

```
Start at: 2020-02-17 22:34:48
End at: 2020-02-17 22:35:18
Local clock offset: 5.732 ms
Remote clock offset: 5.871 ms

# Below is generated by plot.py at 2020-02-18 00:12:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.62 Mbit/s
95th percentile per-packet one-way delay: 38.305 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 89.62 Mbit/s
95th percentile per-packet one-way delay: 38.305 ms
Loss rate: 0.74%
```

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

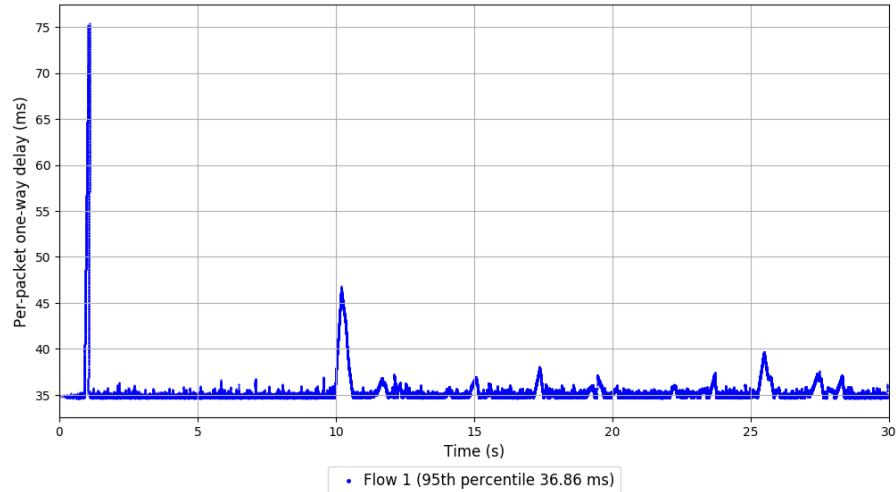
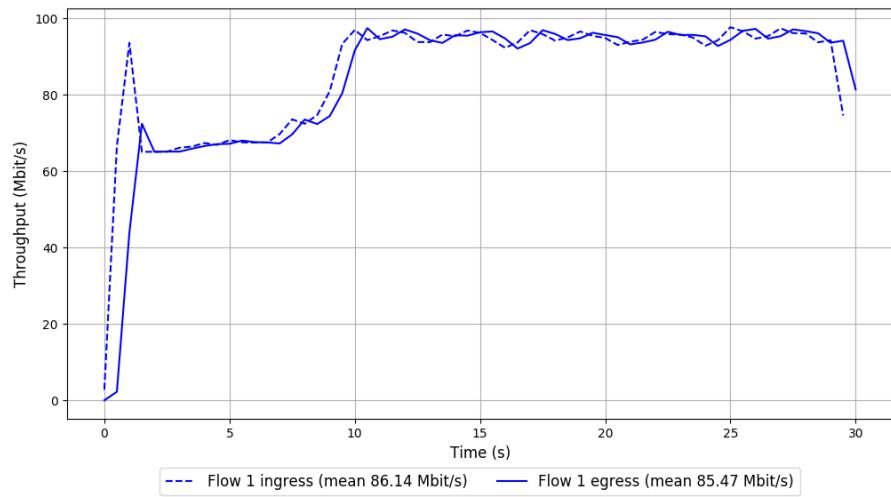


Run 4: Statistics of PCC-Allegro

```
Start at: 2020-02-17 23:04:22
End at: 2020-02-17 23:04:52
Local clock offset: 4.739 ms
Remote clock offset: 5.728 ms

# Below is generated by plot.py at 2020-02-18 00:12:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.47 Mbit/s
95th percentile per-packet one-way delay: 36.856 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 85.47 Mbit/s
95th percentile per-packet one-way delay: 36.856 ms
Loss rate: 0.77%
```

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

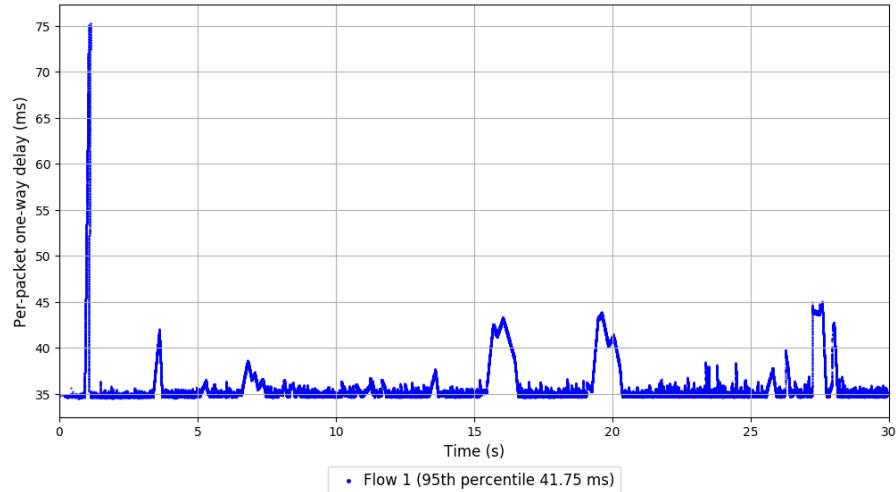
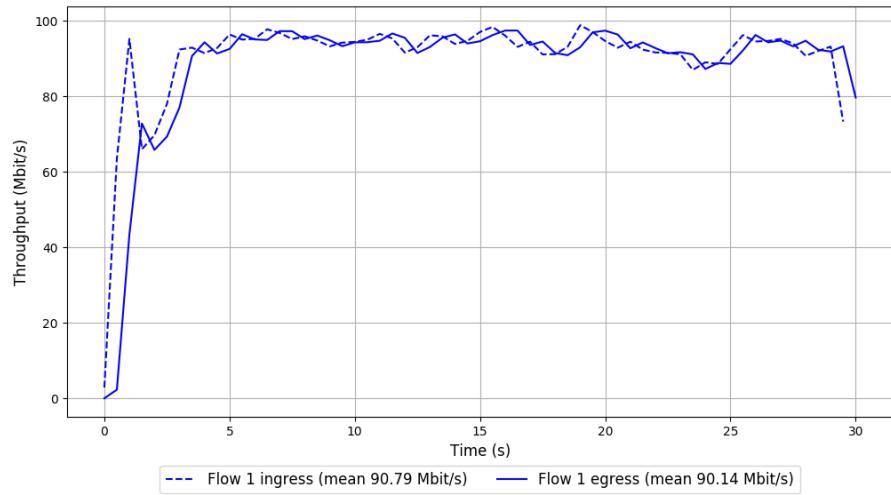


Run 5: Statistics of PCC-Allegro

```
Start at: 2020-02-17 23:34:25
End at: 2020-02-17 23:34:55
Local clock offset: 4.183 ms
Remote clock offset: 5.596 ms

# Below is generated by plot.py at 2020-02-18 00:12:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.14 Mbit/s
95th percentile per-packet one-way delay: 41.749 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 90.14 Mbit/s
95th percentile per-packet one-way delay: 41.749 ms
Loss rate: 0.71%
```

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

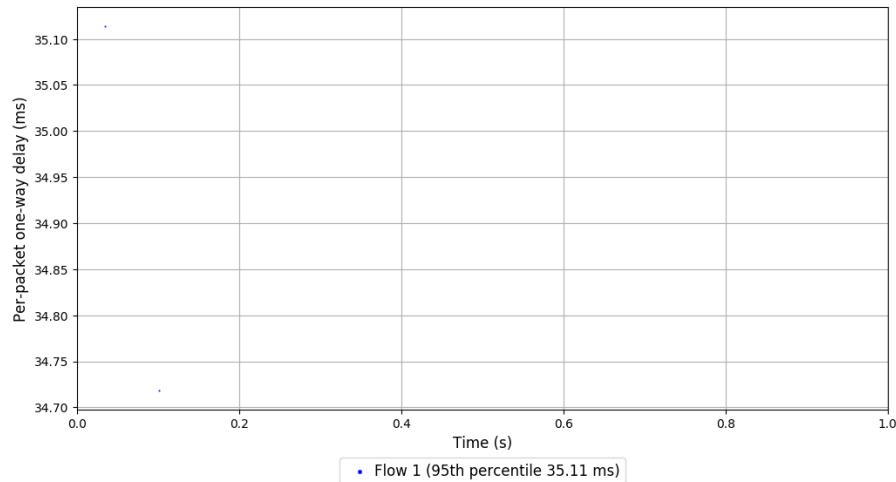
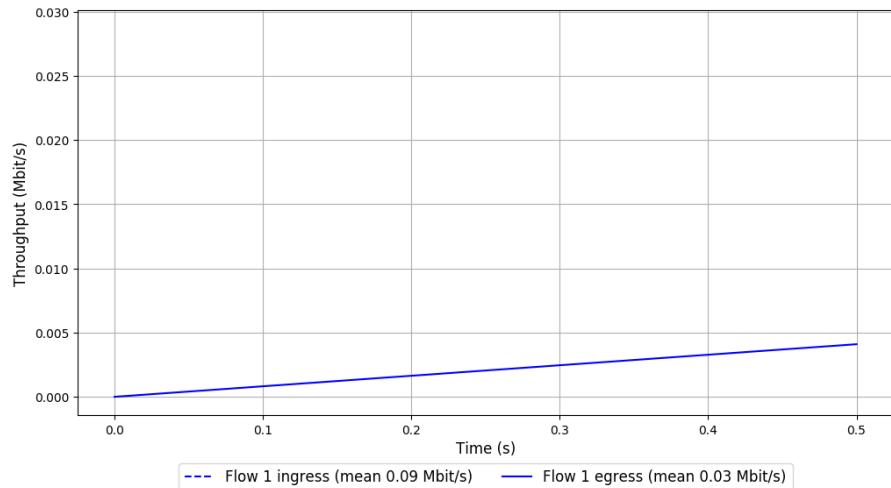
Start at: 2020-02-17 21:57:42

End at: 2020-02-17 21:58:12

Local clock offset: 5.131 ms

Remote clock offset: 5.96 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

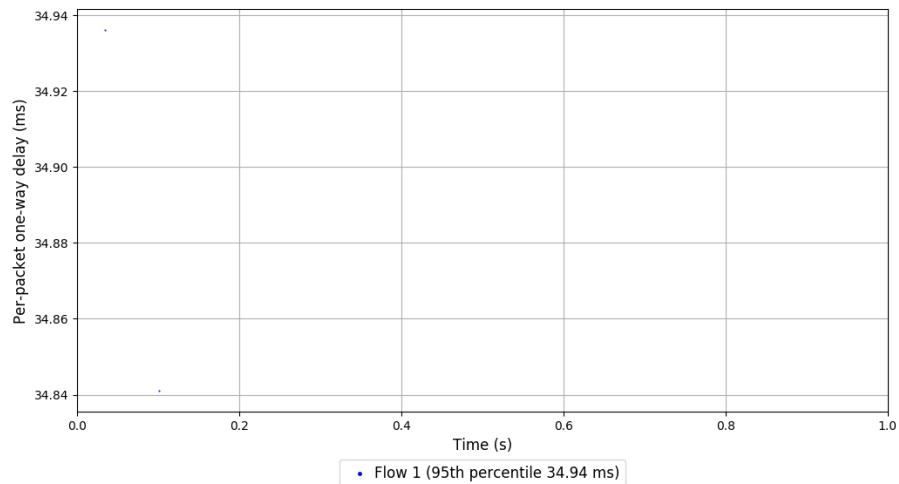
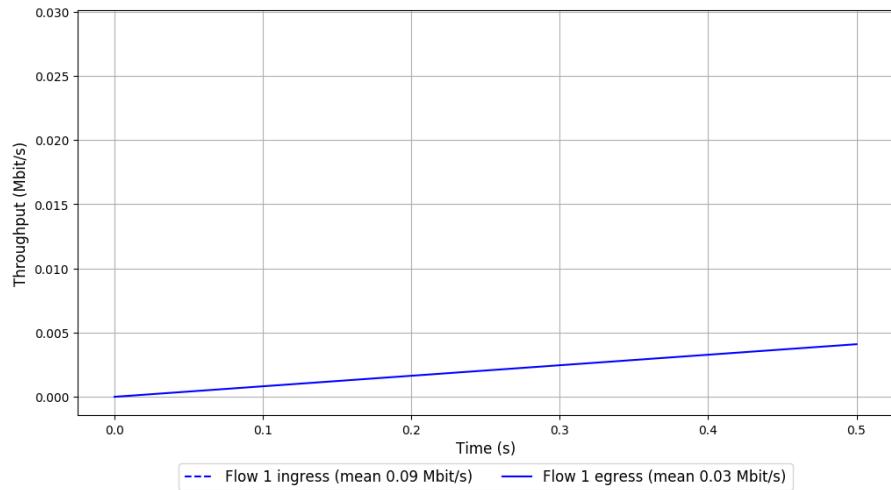
Start at: 2020-02-17 22:28:51

End at: 2020-02-17 22:29:21

Local clock offset: 6.029 ms

Remote clock offset: 6.052 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

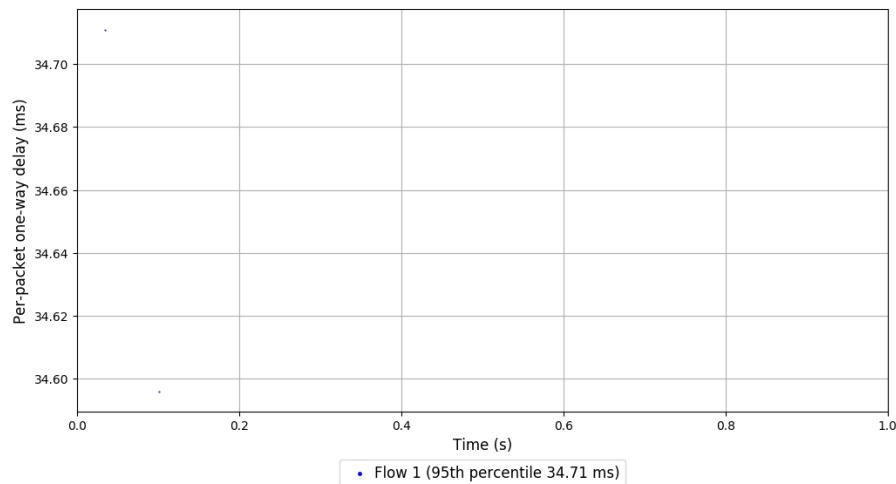
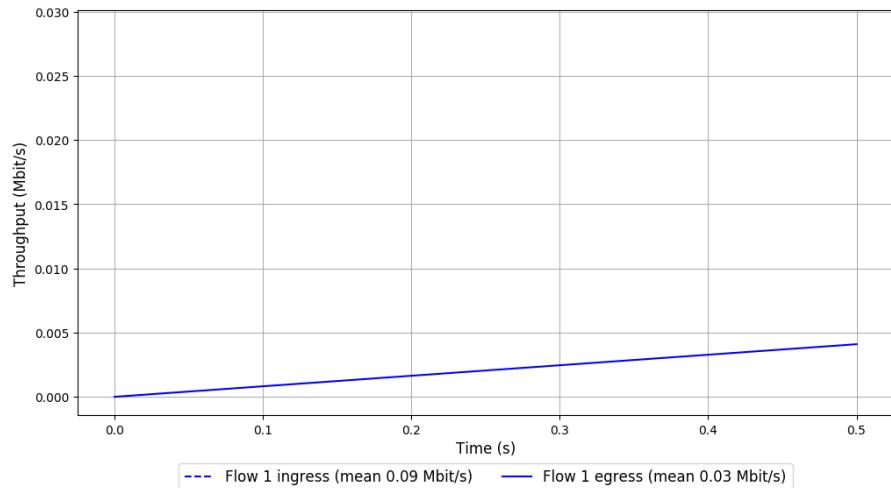
Start at: 2020-02-17 22:58:00

End at: 2020-02-17 22:58:30

Local clock offset: 5.953 ms

Remote clock offset: 5.746 ms

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



Run 4: Statistics of PCC-Expr

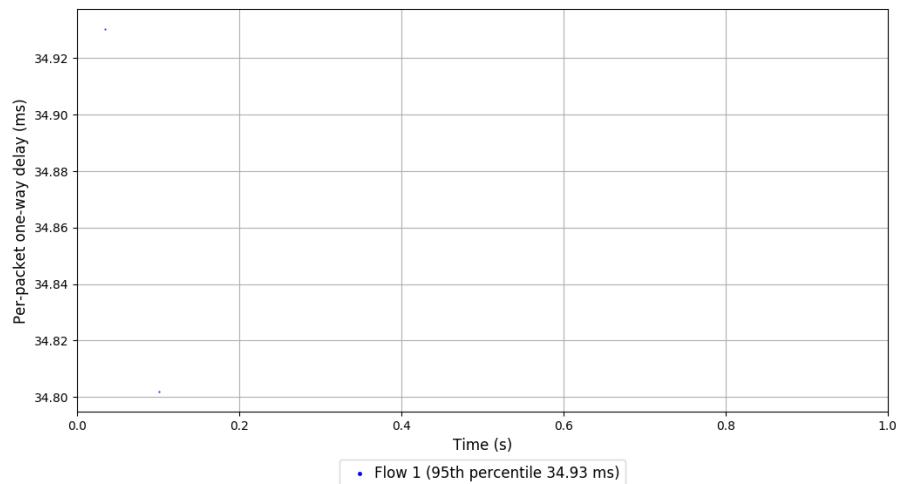
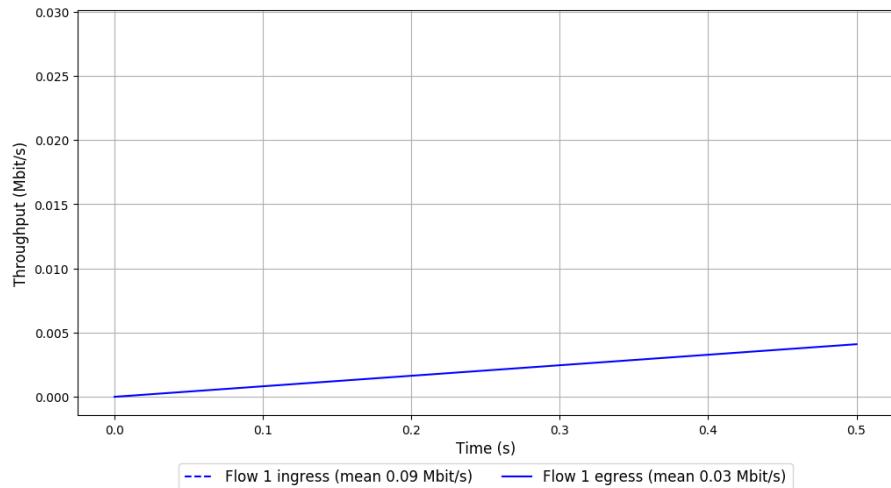
Start at: 2020-02-17 23:28:15

End at: 2020-02-17 23:28:45

Local clock offset: 3.696 ms

Remote clock offset: 5.615 ms

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



Run 5: Statistics of PCC-Expr

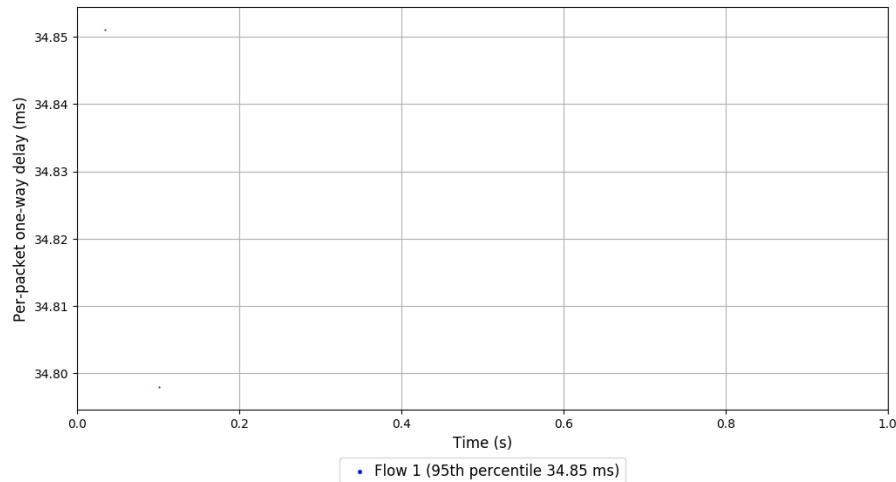
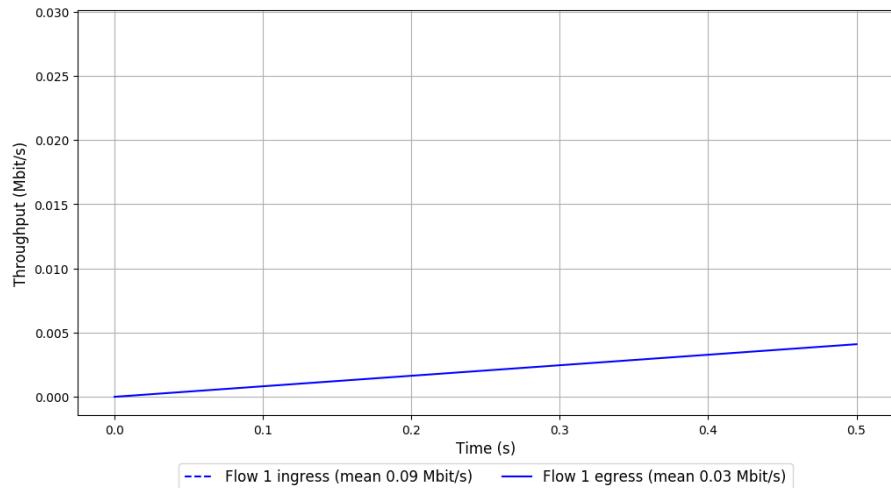
Start at: 2020-02-17 23:58:22

End at: 2020-02-17 23:58:52

Local clock offset: 4.798 ms

Remote clock offset: 5.609 ms

Run 5: Report of PCC-Expr — Data Link

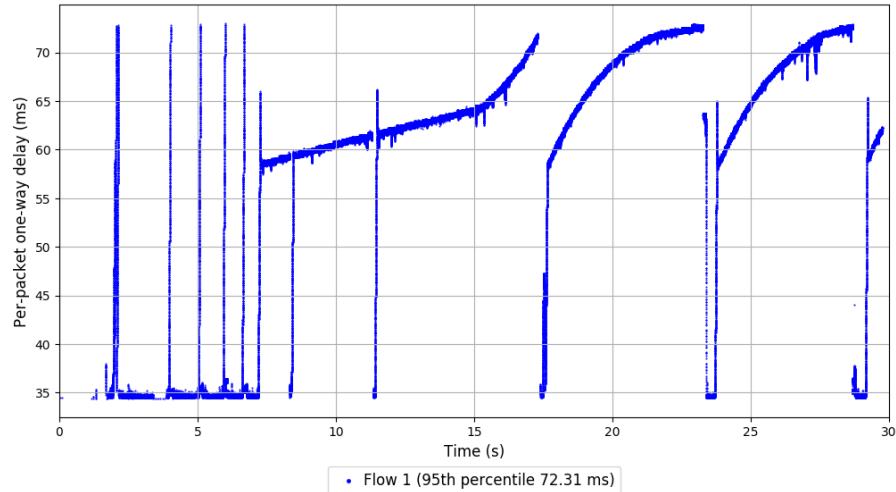
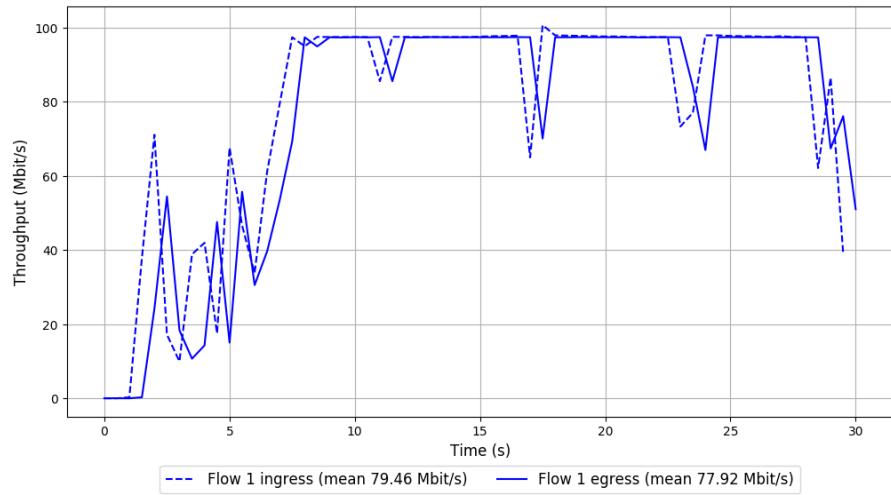


```
Run 1: Statistics of QUIC Cubic

Start at: 2020-02-17 21:58:48
End at: 2020-02-17 21:59:18
Local clock offset: 5.162 ms
Remote clock offset: 5.885 ms

# Below is generated by plot.py at 2020-02-18 00:12:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.92 Mbit/s
95th percentile per-packet one-way delay: 72.313 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 77.92 Mbit/s
95th percentile per-packet one-way delay: 72.313 ms
Loss rate: 1.85%
```

Run 1: Report of QUIC Cubic — Data Link

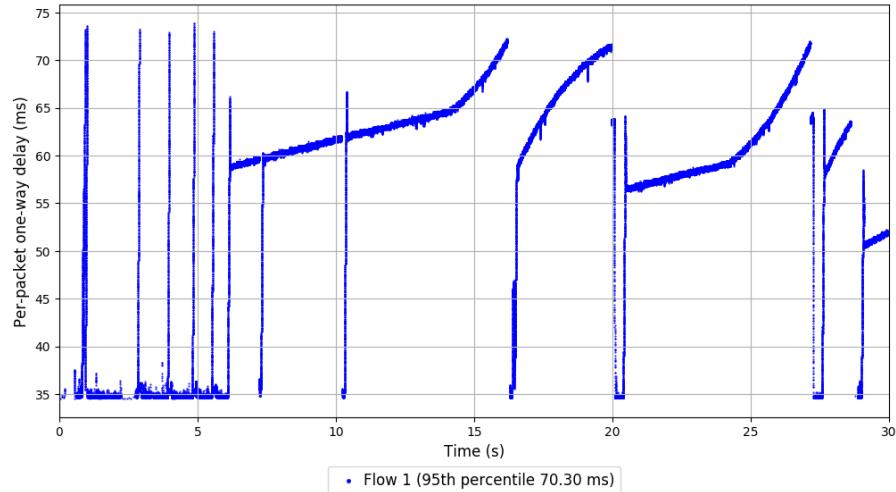
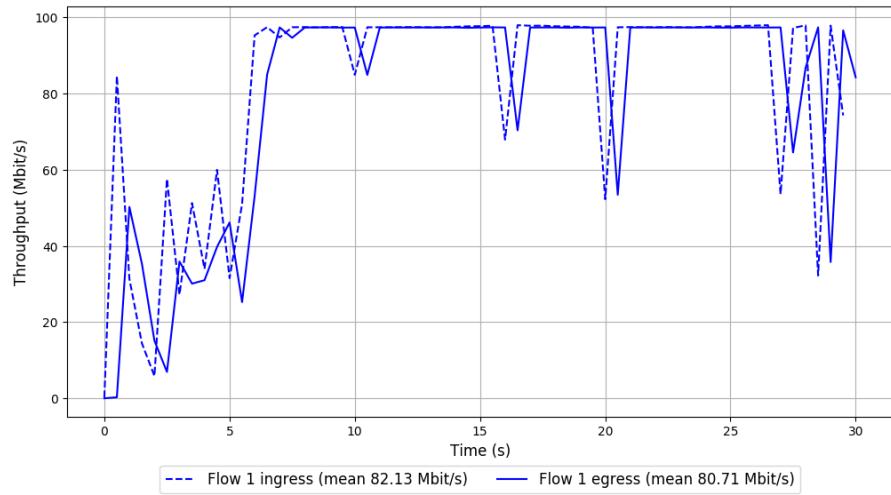


Run 2: Statistics of QUIC Cubic

```
Start at: 2020-02-17 22:29:57
End at: 2020-02-17 22:30:27
Local clock offset: 5.957 ms
Remote clock offset: 5.984 ms

# Below is generated by plot.py at 2020-02-18 00:12:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.71 Mbit/s
95th percentile per-packet one-way delay: 70.295 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 80.71 Mbit/s
95th percentile per-packet one-way delay: 70.295 ms
Loss rate: 1.67%
```

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

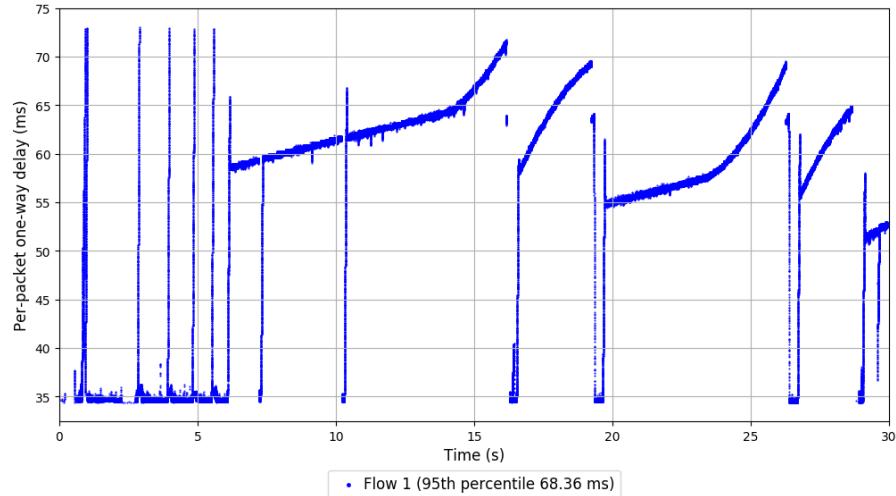
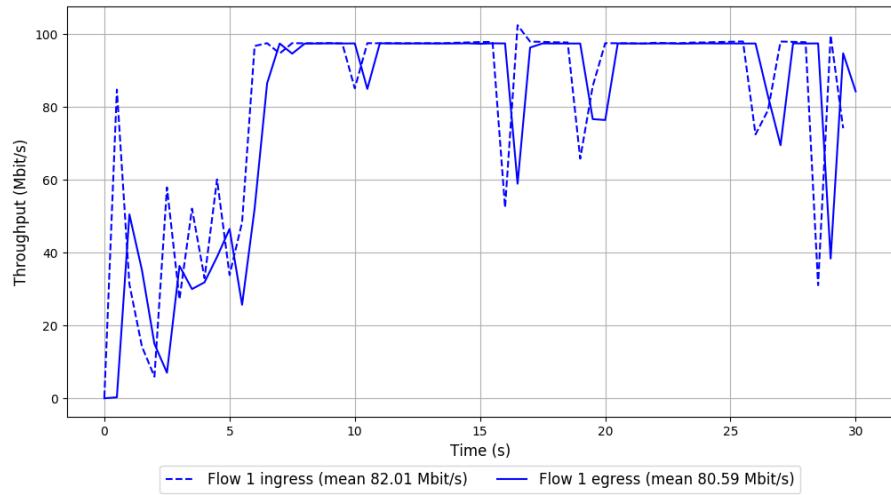


Run 3: Statistics of QUIC Cubic

```
Start at: 2020-02-17 22:59:06
End at: 2020-02-17 22:59:36
Local clock offset: 5.676 ms
Remote clock offset: 5.742 ms

# Below is generated by plot.py at 2020-02-18 00:13:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.59 Mbit/s
95th percentile per-packet one-way delay: 68.357 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 80.59 Mbit/s
95th percentile per-packet one-way delay: 68.357 ms
Loss rate: 1.68%
```

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

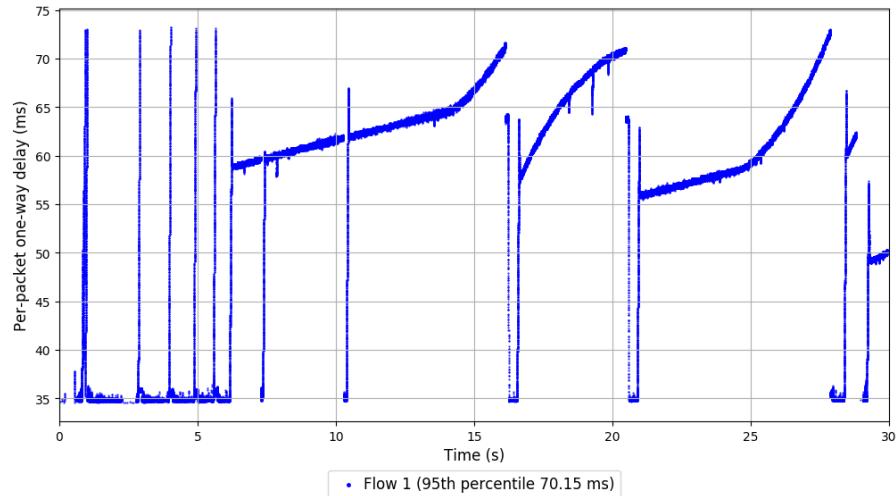
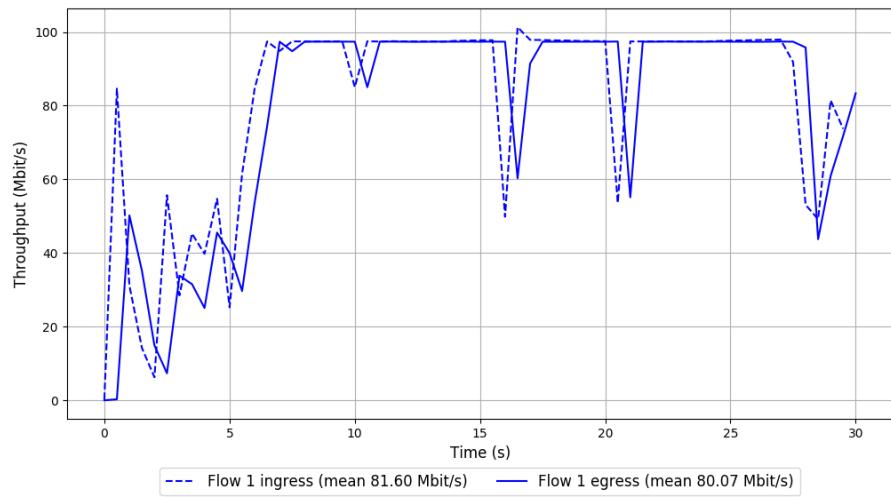


Run 4: Statistics of QUIC Cubic

```
Start at: 2020-02-17 23:29:21
End at: 2020-02-17 23:29:51
Local clock offset: 3.86 ms
Remote clock offset: 5.623 ms

# Below is generated by plot.py at 2020-02-18 00:13:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.07 Mbit/s
95th percentile per-packet one-way delay: 70.151 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 80.07 Mbit/s
95th percentile per-packet one-way delay: 70.151 ms
Loss rate: 1.82%
```

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

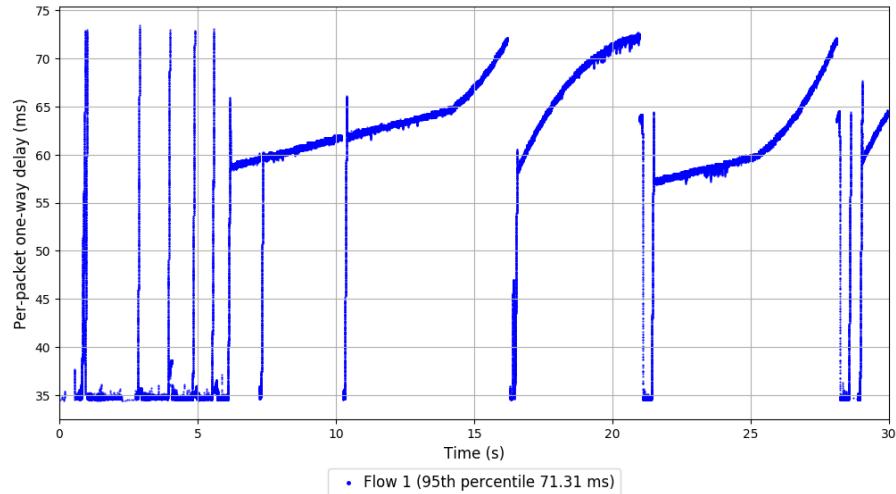
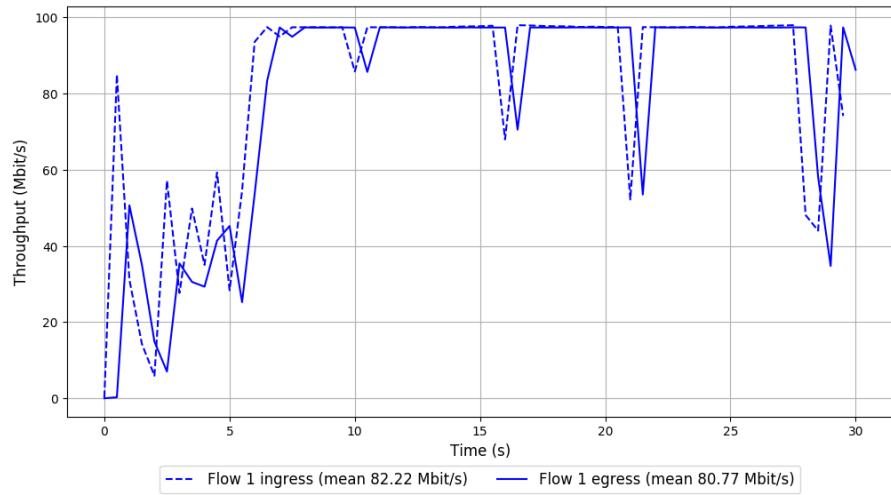


Run 5: Statistics of QUIC Cubic

```
Start at: 2020-02-17 23:59:28
End at: 2020-02-17 23:59:58
Local clock offset: 4.802 ms
Remote clock offset: 5.538 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.77 Mbit/s
95th percentile per-packet one-way delay: 71.310 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 80.77 Mbit/s
95th percentile per-packet one-way delay: 71.310 ms
Loss rate: 1.67%
```

Run 5: Report of QUIC Cubic — Data Link

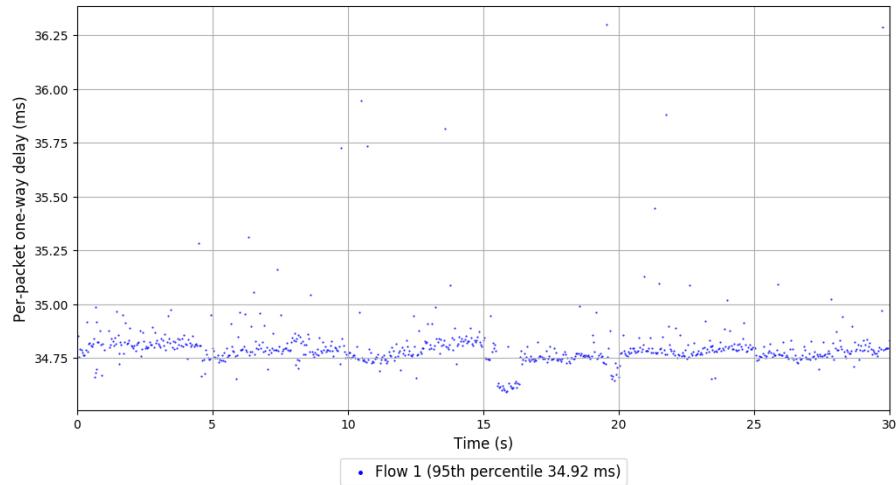
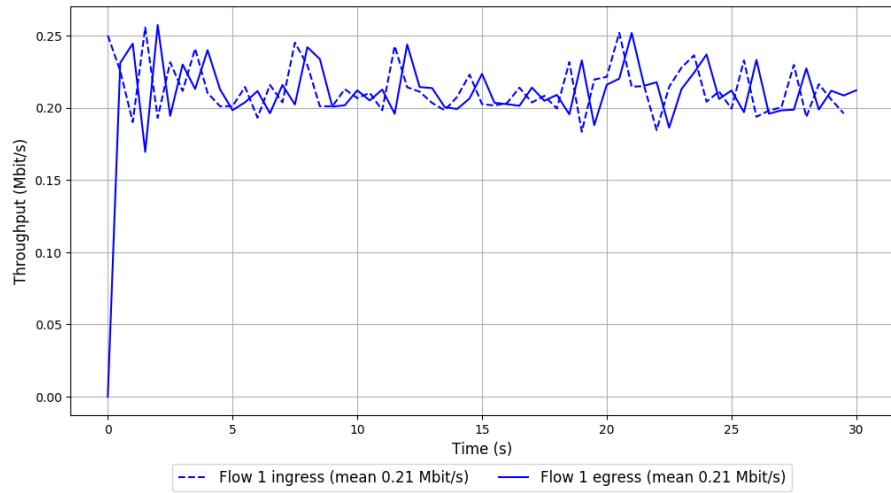


```
Run 1: Statistics of SCReAM

Start at: 2020-02-17 21:55:15
End at: 2020-02-17 21:55:45
Local clock offset: 5.003 ms
Remote clock offset: 5.905 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.921 ms
Loss rate: 0.00%
```

## Run 1: Report of SCReAM — Data Link

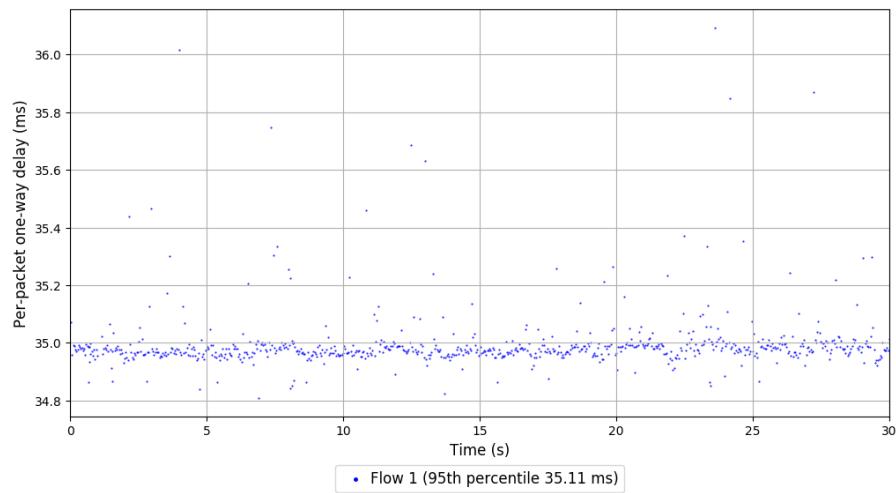
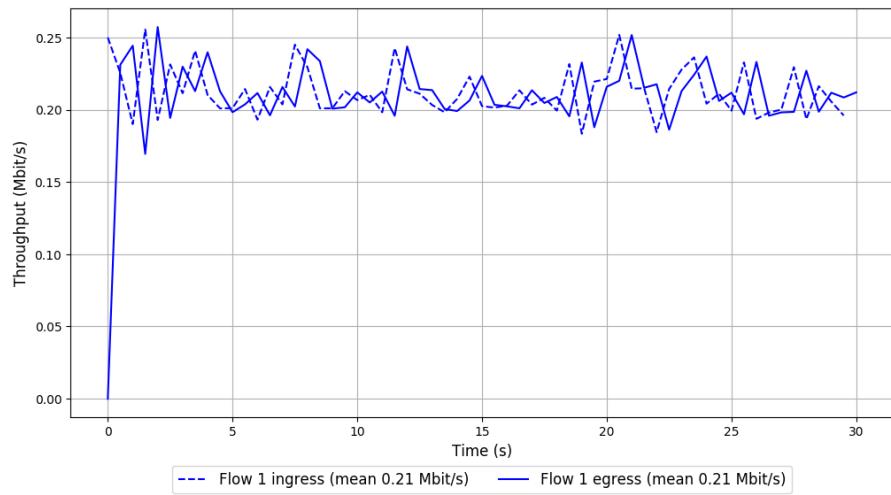


Run 2: Statistics of SCReAM

```
Start at: 2020-02-17 22:26:34
End at: 2020-02-17 22:27:04
Local clock offset: 6.052 ms
Remote clock offset: 6.043 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.109 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.109 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

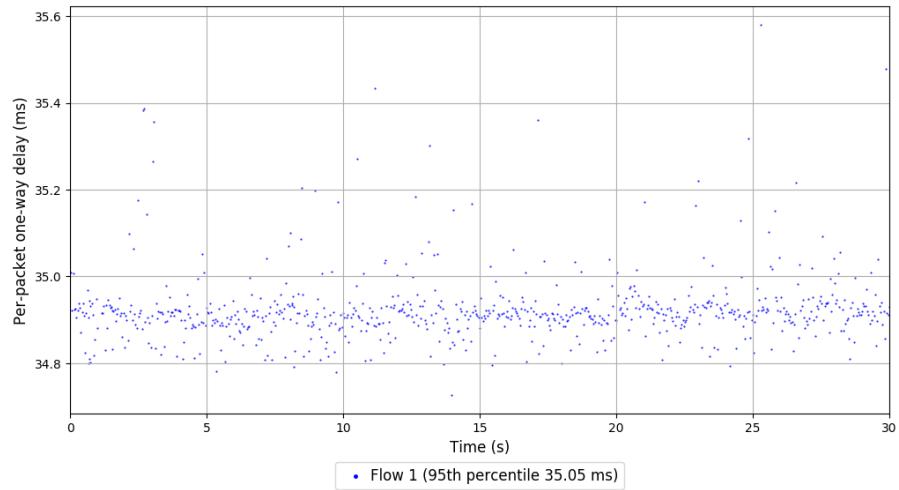
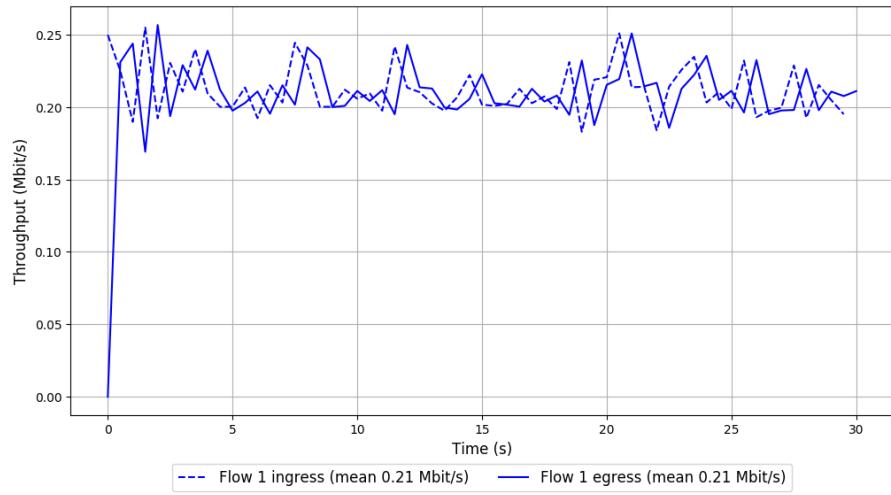


Run 3: Statistics of SCReAM

```
Start at: 2020-02-17 22:55:40
End at: 2020-02-17 22:56:10
Local clock offset: 5.891 ms
Remote clock offset: 5.827 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.050 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.050 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

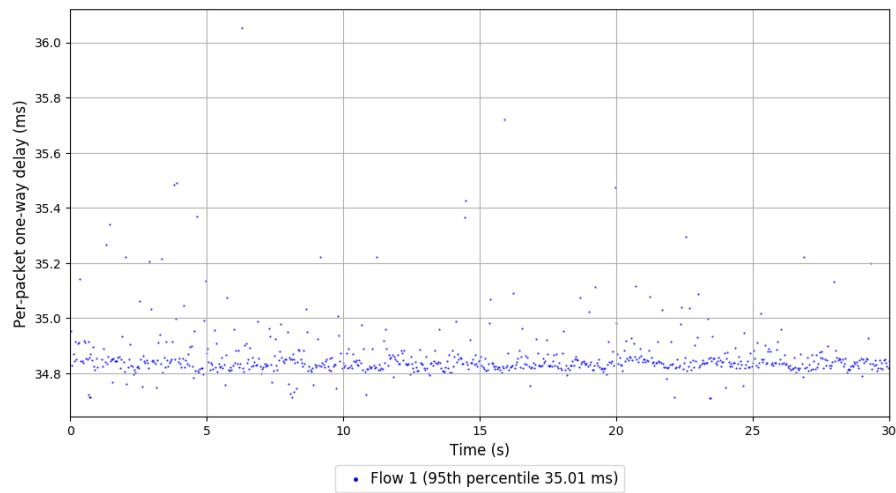
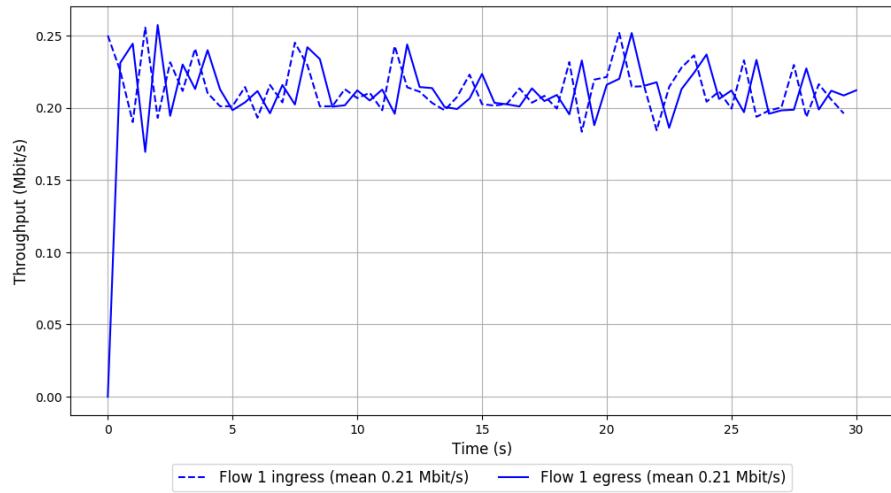


Run 4: Statistics of SCReAM

```
Start at: 2020-02-17 23:25:50
End at: 2020-02-17 23:26:20
Local clock offset: 3.703 ms
Remote clock offset: 5.636 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.008 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.008 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

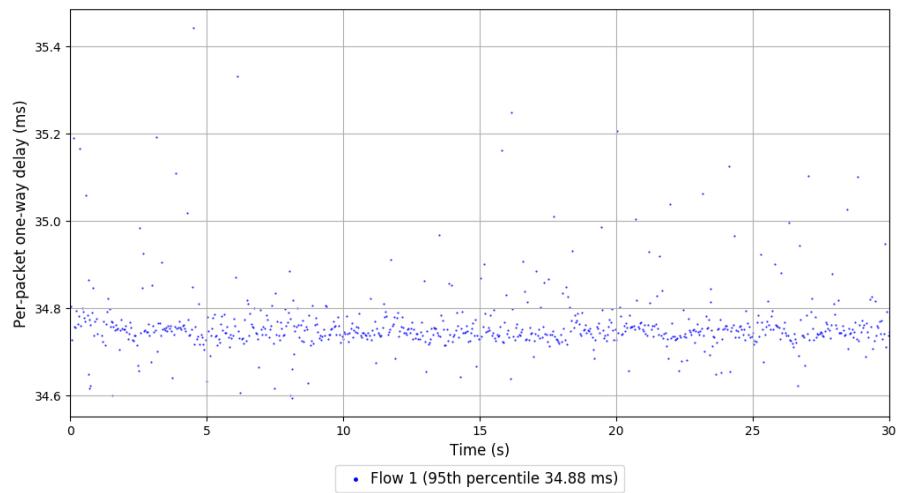
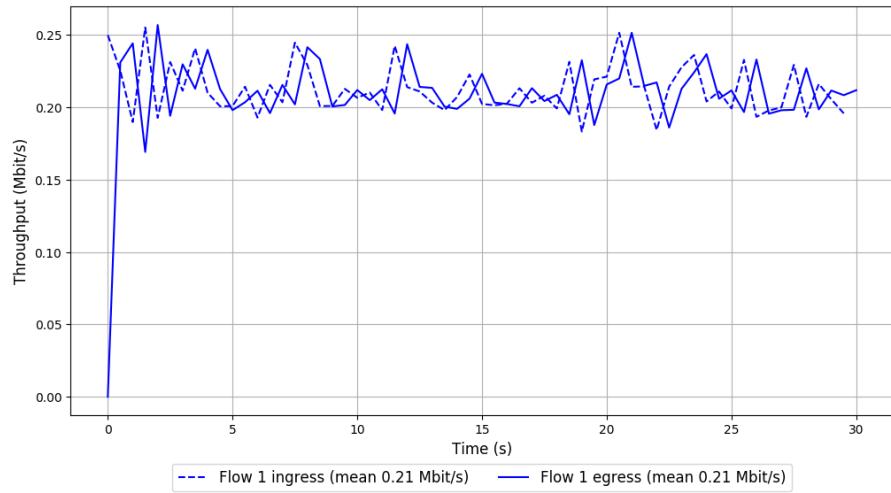


Run 5: Statistics of SCReAM

```
Start at: 2020-02-17 23:56:02
End at: 2020-02-17 23:56:32
Local clock offset: 4.768 ms
Remote clock offset: 5.47 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.881 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

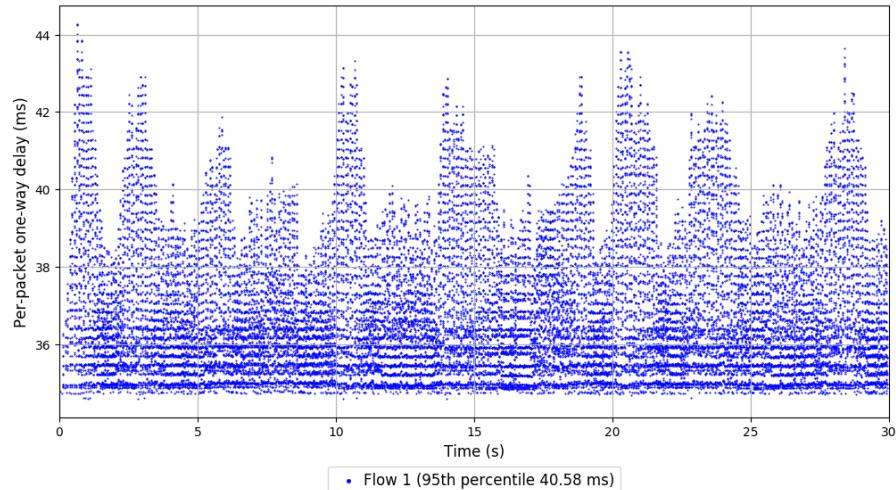
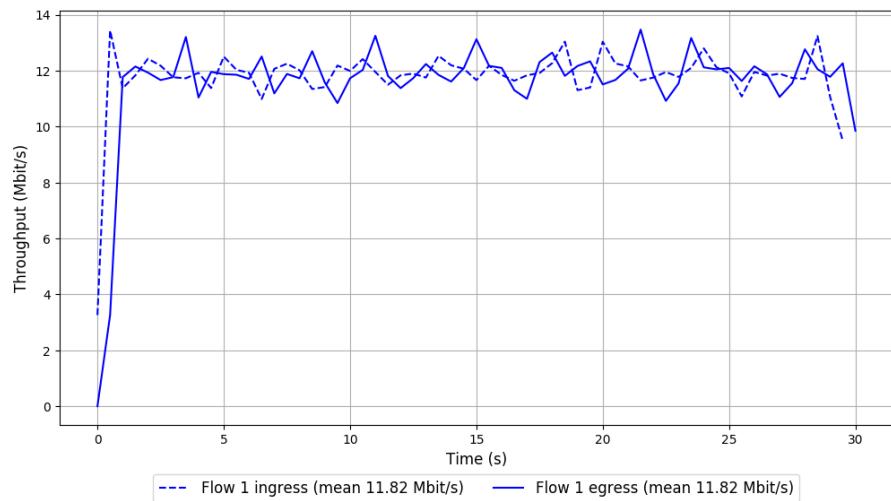


Run 1: Statistics of Sprout

```
Start at: 2020-02-17 21:39:42
End at: 2020-02-17 21:40:12
Local clock offset: 4.575 ms
Remote clock offset: 5.896 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 40.580 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 40.580 ms
Loss rate: 0.00%
```

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

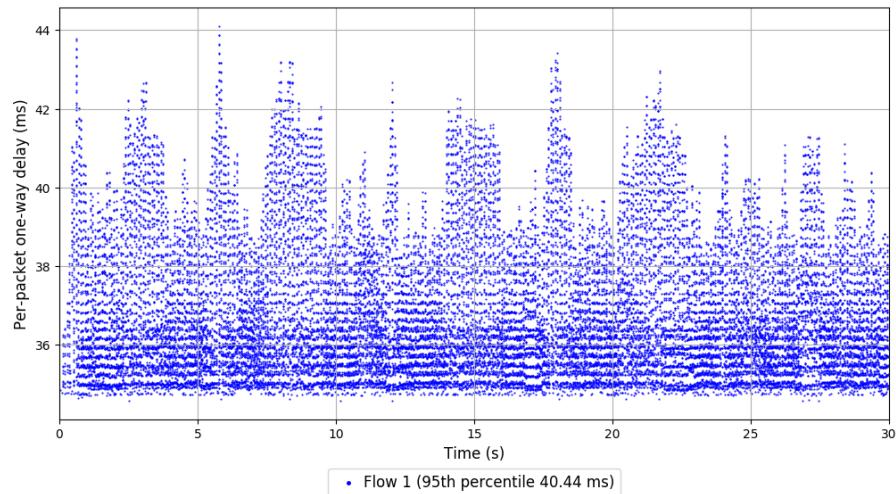
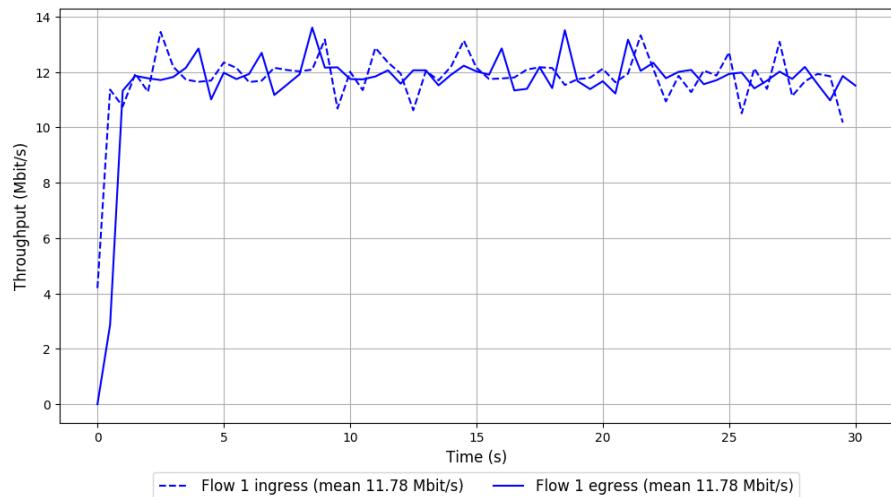


Run 2: Statistics of Sprout

```
Start at: 2020-02-17 22:11:24
End at: 2020-02-17 22:11:54
Local clock offset: 5.412 ms
Remote clock offset: 6.119 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 40.440 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 40.440 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link

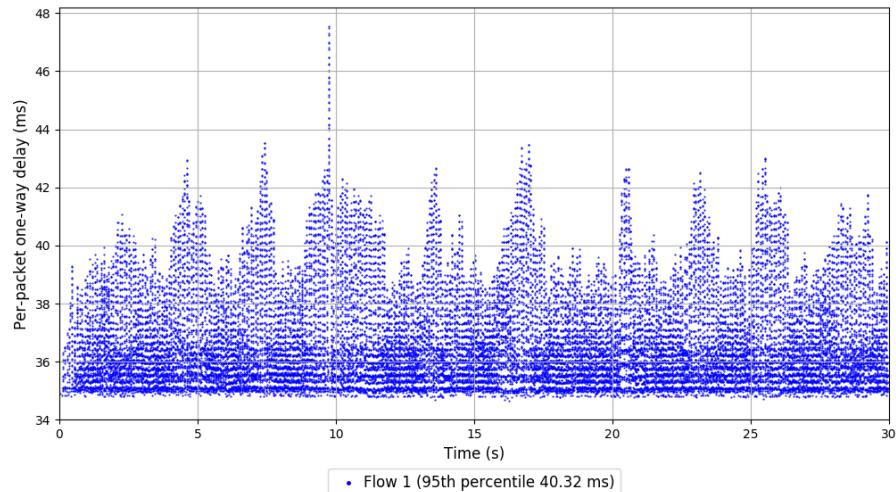
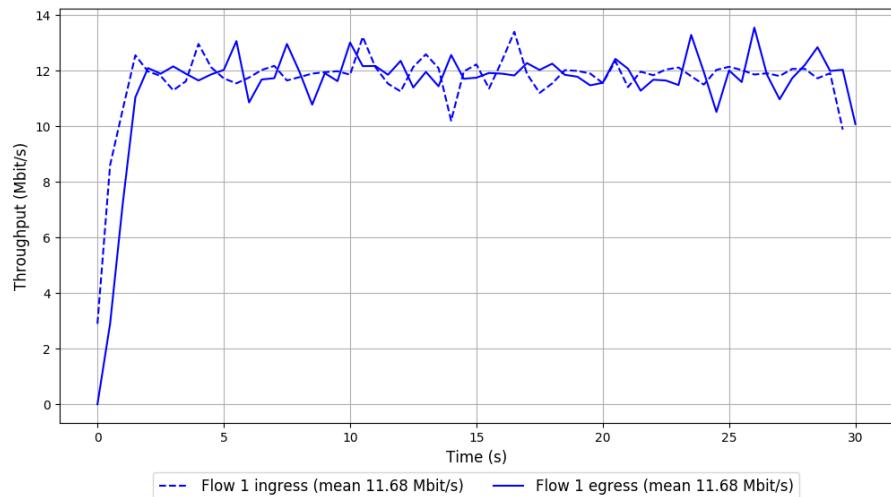


Run 3: Statistics of Sprout

```
Start at: 2020-02-17 22:41:12
End at: 2020-02-17 22:41:43
Local clock offset: 5.65 ms
Remote clock offset: 5.975 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 40.322 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 40.322 ms
Loss rate: 0.00%
```

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

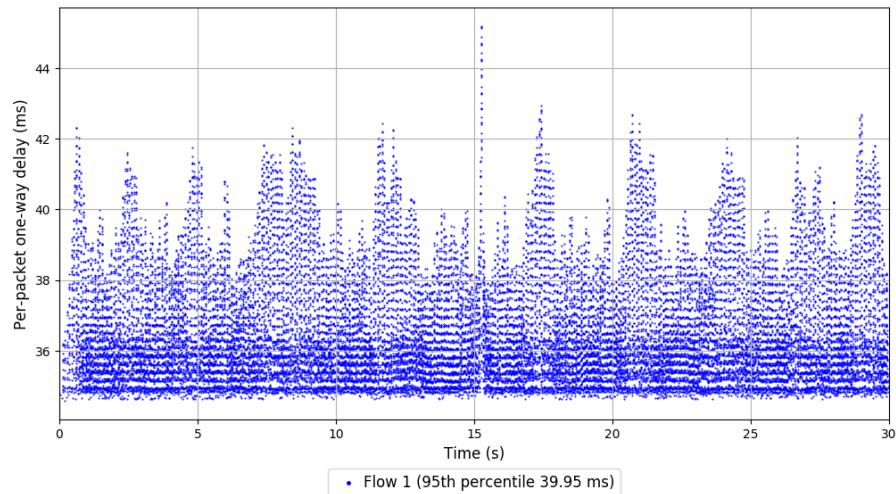
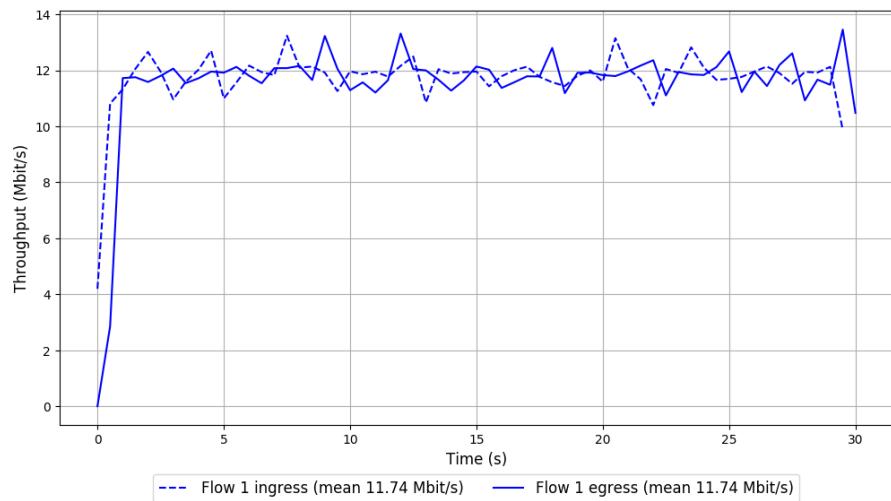


Run 4: Statistics of Sprout

```
Start at: 2020-02-17 23:10:44
End at: 2020-02-17 23:11:14
Local clock offset: 4.134 ms
Remote clock offset: 5.642 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 39.945 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 39.945 ms
Loss rate: 0.00%
```

## Run 4: Report of Sprout — Data Link

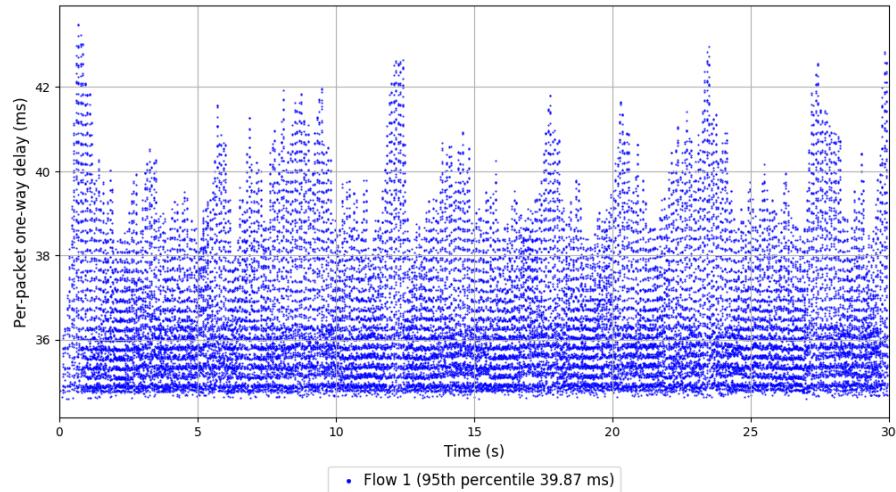
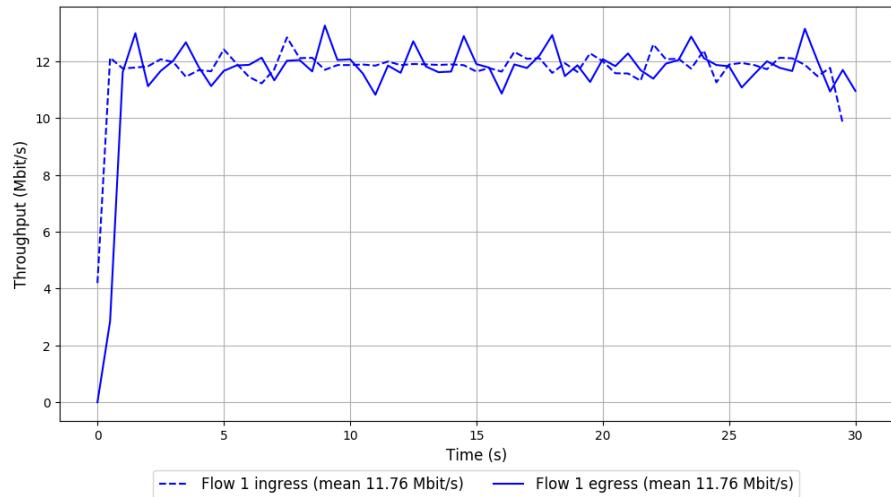


Run 5: Statistics of Sprout

```
Start at: 2020-02-17 23:40:49
End at: 2020-02-17 23:41:19
Local clock offset: 4.449 ms
Remote clock offset: 5.471 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 39.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 39.869 ms
Loss rate: 0.00%
```

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

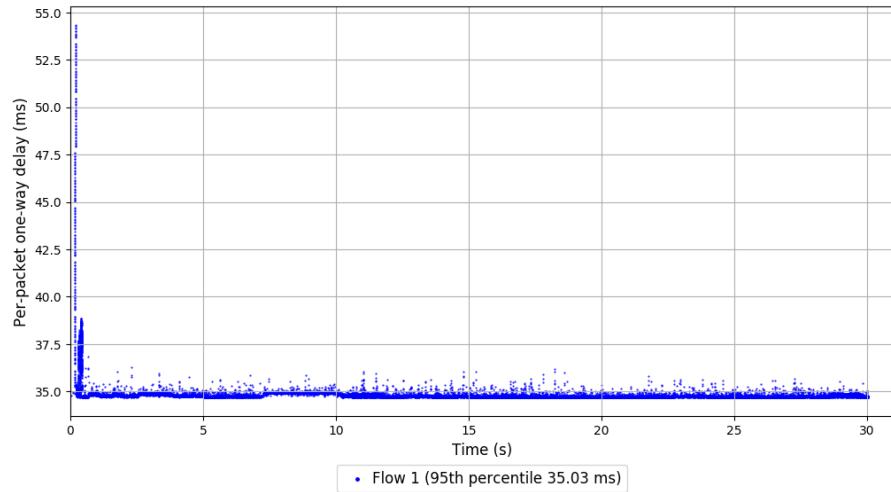
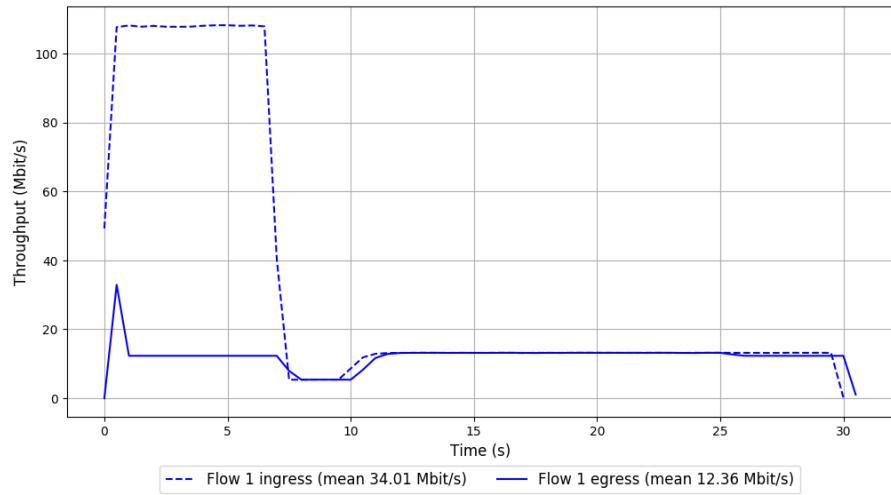


Run 1: Statistics of TaoVA-100x

```
Start at: 2020-02-17 21:47:11
End at: 2020-02-17 21:47:41
Local clock offset: 4.704 ms
Remote clock offset: 5.874 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.36 Mbit/s
95th percentile per-packet one-way delay: 35.031 ms
Loss rate: 63.67%
-- Flow 1:
Average throughput: 12.36 Mbit/s
95th percentile per-packet one-way delay: 35.031 ms
Loss rate: 63.67%
```

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

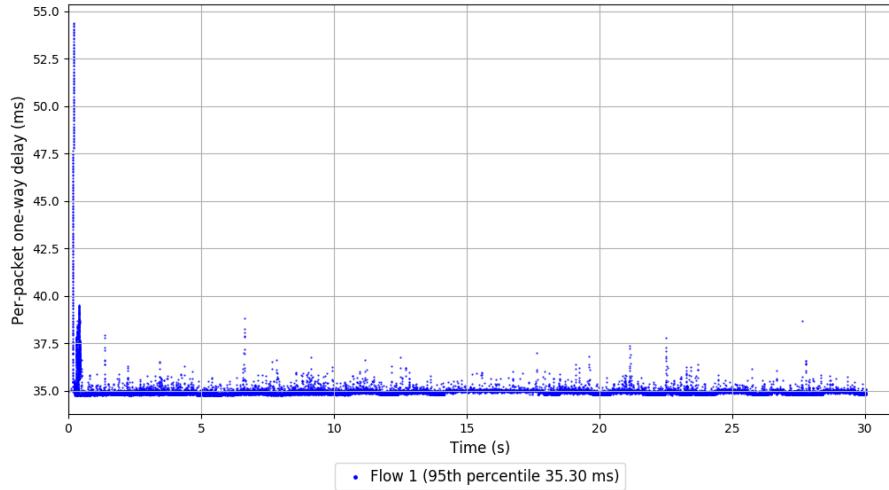
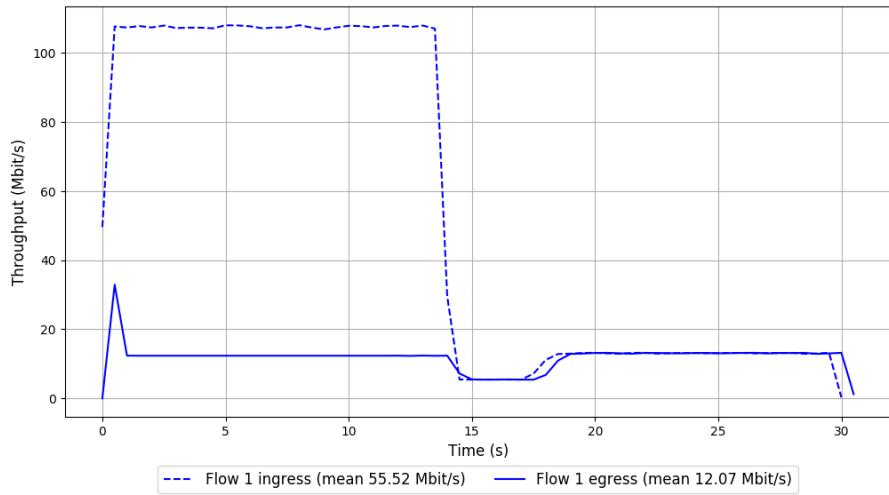


Run 2: Statistics of TaoVA-100x

```
Start at: 2020-02-17 22:18:57
End at: 2020-02-17 22:19:27
Local clock offset: 5.692 ms
Remote clock offset: 6.298 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 35.300 ms
Loss rate: 78.26%
-- Flow 1:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 35.300 ms
Loss rate: 78.26%
```

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

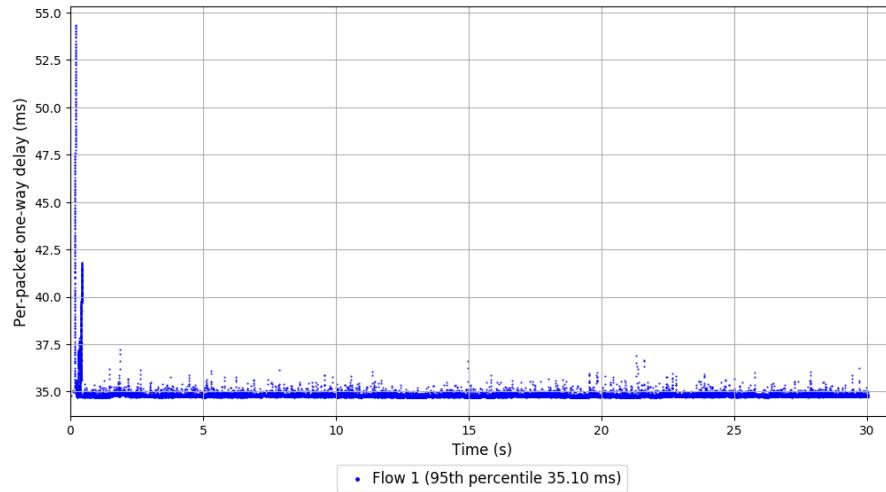
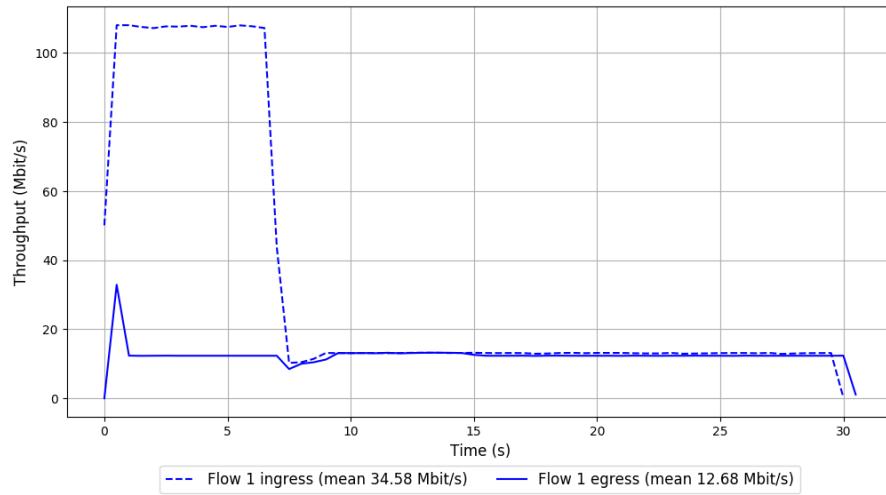


Run 3: Statistics of TaoVA-100x

```
Start at: 2020-02-17 22:48:12
End at: 2020-02-17 22:48:42
Local clock offset: 5.739 ms
Remote clock offset: 5.812 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 35.104 ms
Loss rate: 63.33%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 35.104 ms
Loss rate: 63.33%
```

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

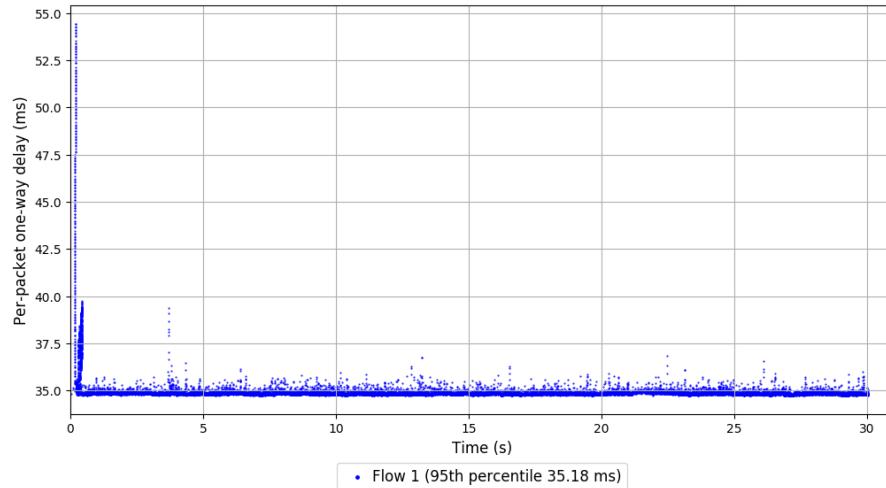
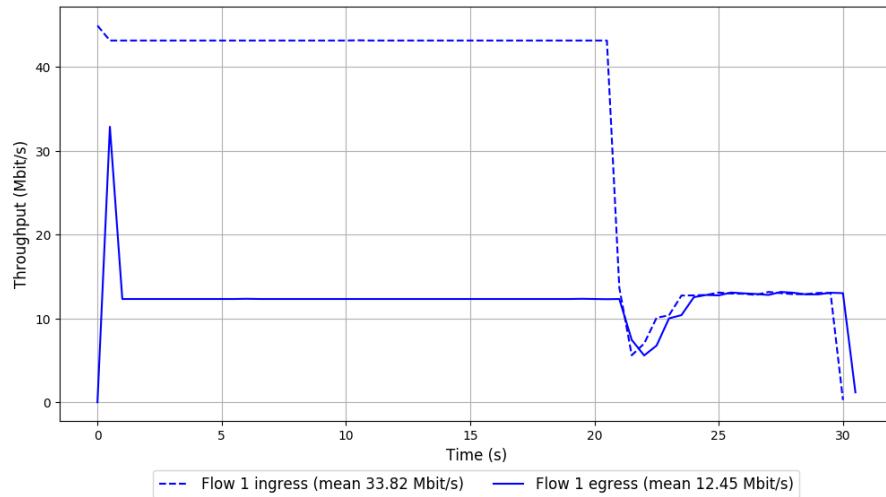


Run 4: Statistics of TaoVA-100x

```
Start at: 2020-02-17 23:18:00
End at: 2020-02-17 23:18:30
Local clock offset: 3.858 ms
Remote clock offset: 5.753 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 35.184 ms
Loss rate: 63.19%
-- Flow 1:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 35.184 ms
Loss rate: 63.19%
```

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

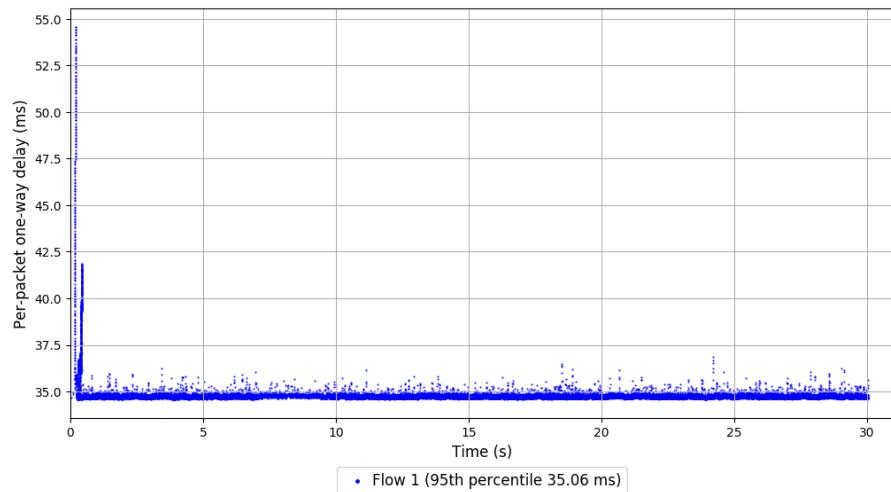
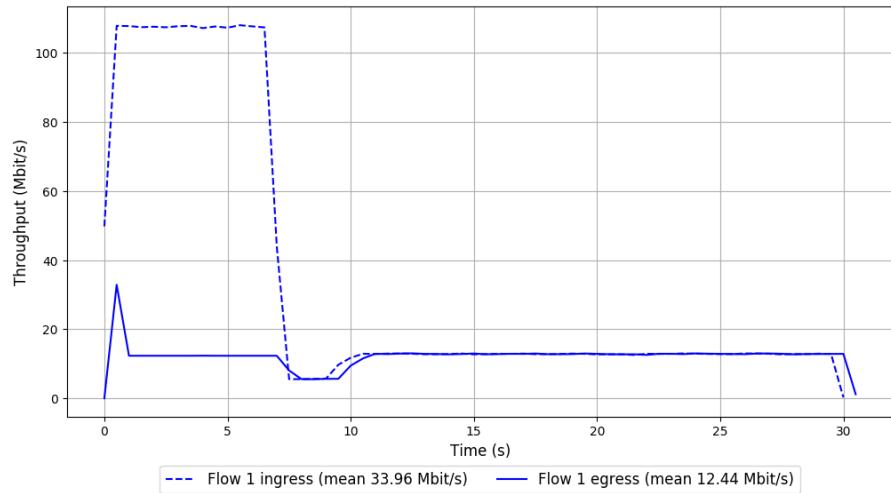


Run 5: Statistics of TaoVA-100x

```
Start at: 2020-02-17 23:48:02
End at: 2020-02-17 23:48:33
Local clock offset: 4.647 ms
Remote clock offset: 5.517 ms

# Below is generated by plot.py at 2020-02-18 00:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 35.059 ms
Loss rate: 63.36%
-- Flow 1:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 35.059 ms
Loss rate: 63.36%
```

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

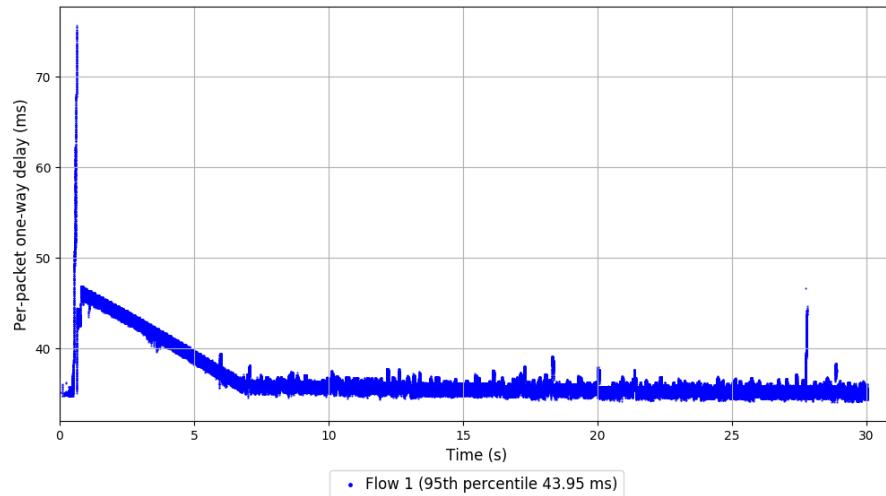
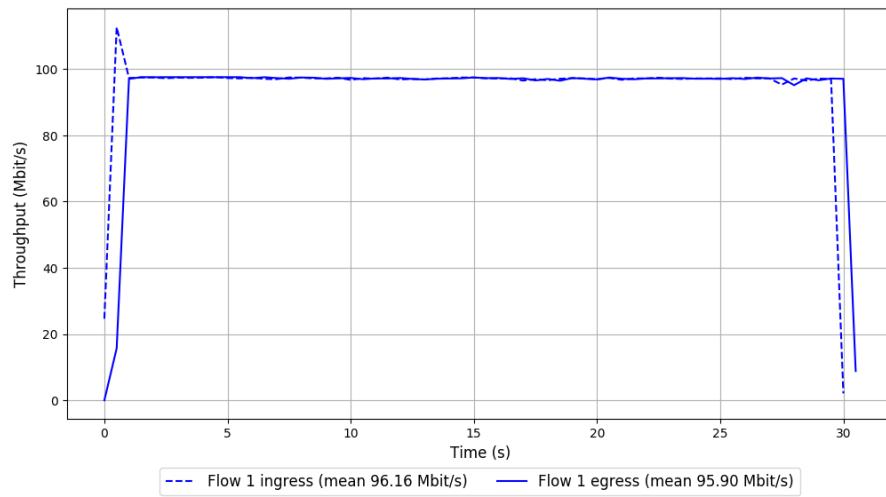


Run 1: Statistics of TCP Vegas

```
Start at: 2020-02-17 21:29:41
End at: 2020-02-17 21:30:11
Local clock offset: 5.024 ms
Remote clock offset: 5.683 ms

# Below is generated by plot.py at 2020-02-18 00:14:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 43.953 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 43.953 ms
Loss rate: 0.27%
```

Run 1: Report of TCP Vegas — Data Link

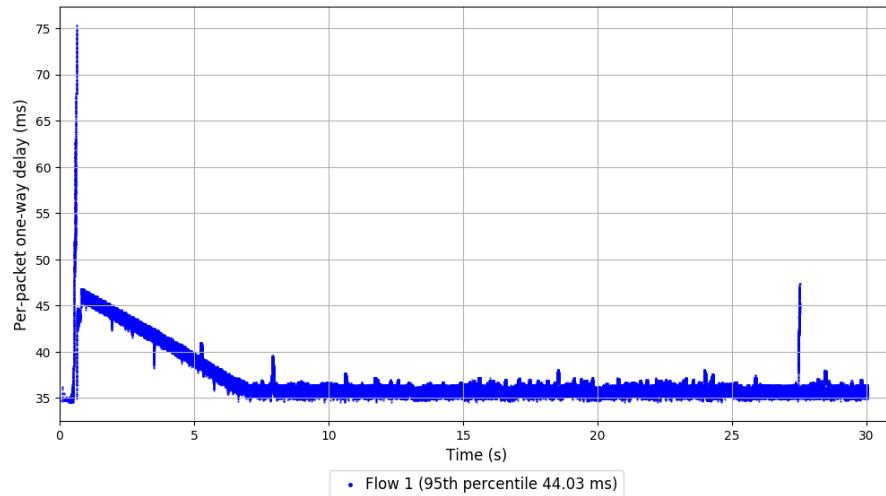
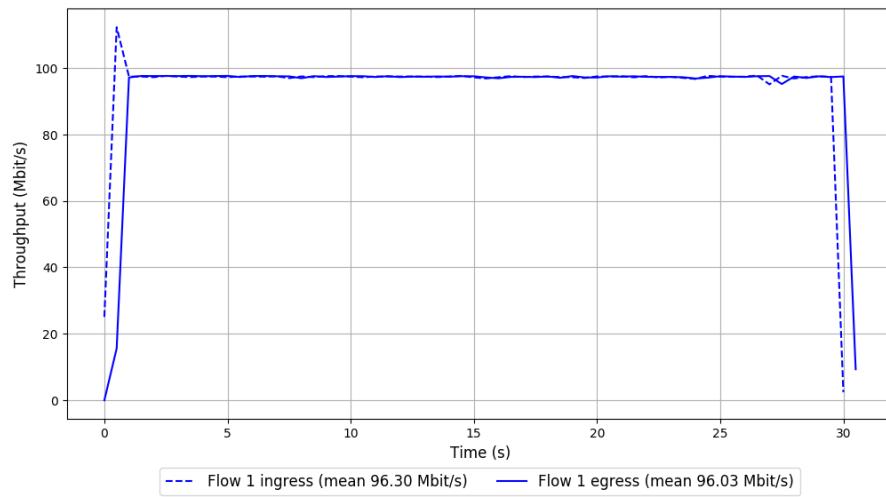


Run 2: Statistics of TCP Vegas

```
Start at: 2020-02-17 22:00:14
End at: 2020-02-17 22:00:44
Local clock offset: 5.149 ms
Remote clock offset: 5.928 ms

# Below is generated by plot.py at 2020-02-18 00:14:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 44.035 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 44.035 ms
Loss rate: 0.27%
```

Run 2: Report of TCP Vegas — Data Link

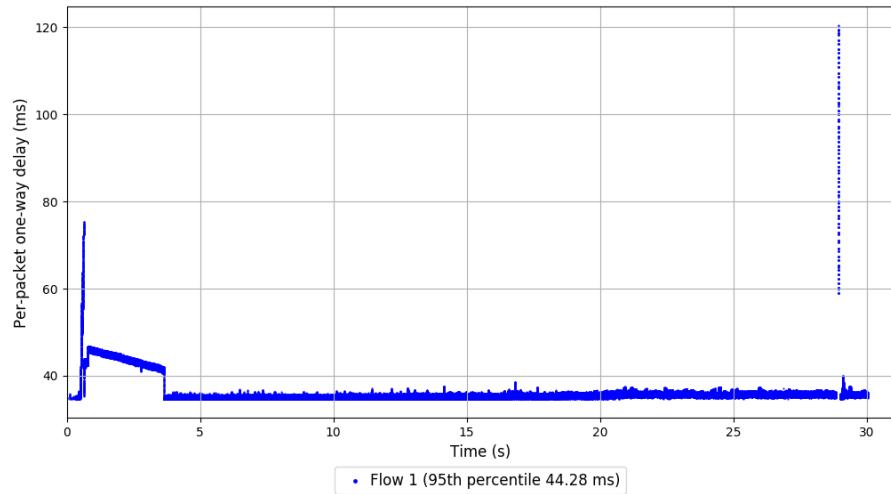
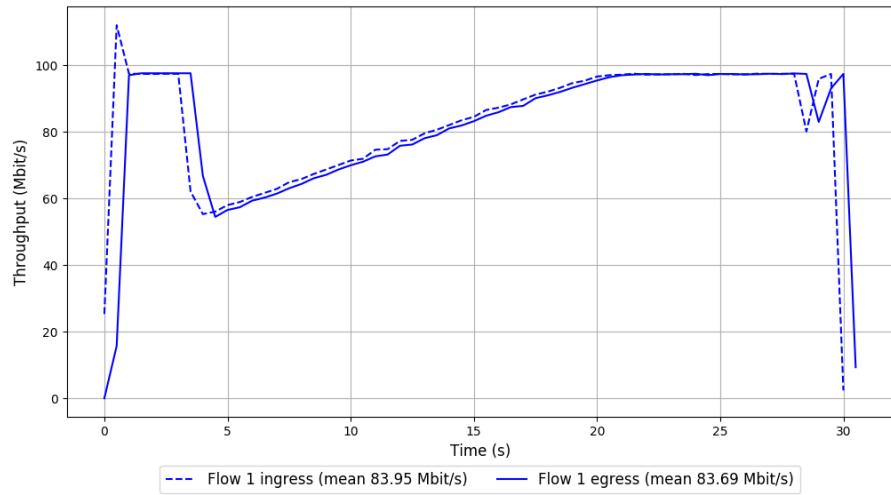


Run 3: Statistics of TCP Vegas

```
Start at: 2020-02-17 22:31:08
End at: 2020-02-17 22:31:38
Local clock offset: 5.855 ms
Remote clock offset: 5.9 ms

# Below is generated by plot.py at 2020-02-18 00:14:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.69 Mbit/s
95th percentile per-packet one-way delay: 44.278 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 83.69 Mbit/s
95th percentile per-packet one-way delay: 44.278 ms
Loss rate: 0.31%
```

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

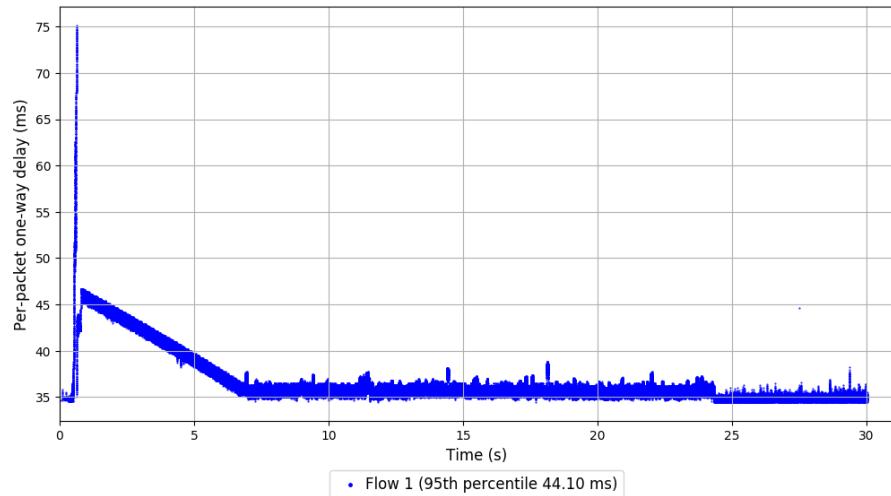
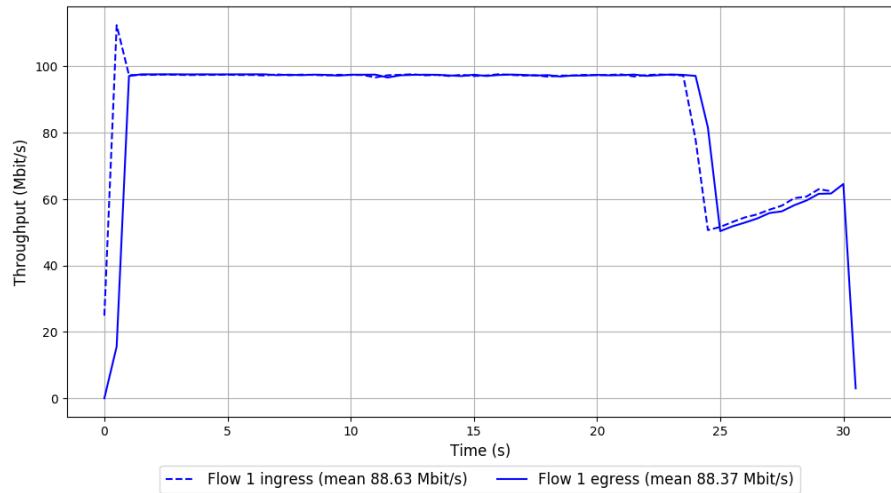


Run 4: Statistics of TCP Vegas

```
Start at: 2020-02-17 23:00:25
End at: 2020-02-17 23:00:55
Local clock offset: 5.422 ms
Remote clock offset: 5.659 ms

# Below is generated by plot.py at 2020-02-18 00:14:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 44.097 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 44.097 ms
Loss rate: 0.29%
```

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

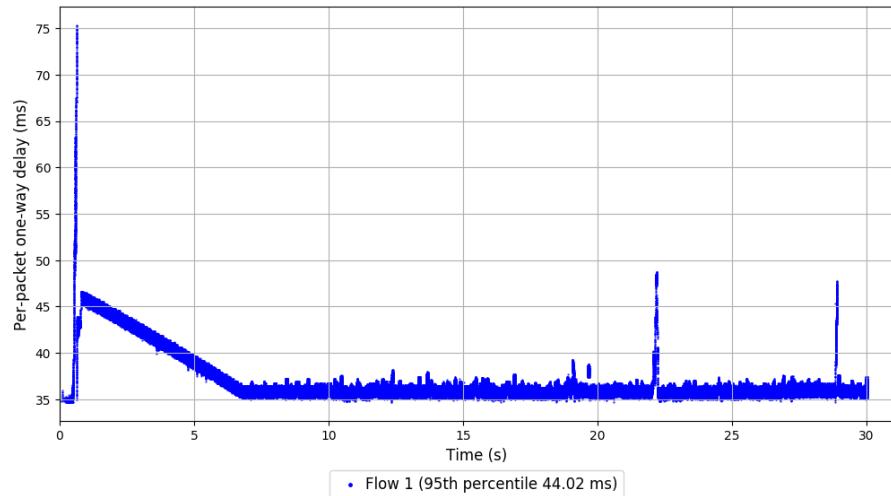
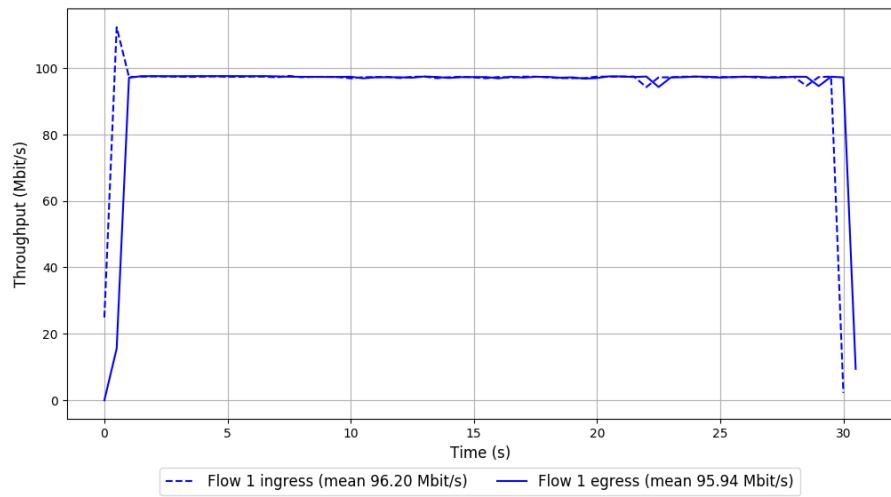


Run 5: Statistics of TCP Vegas

```
Start at: 2020-02-17 23:30:39
End at: 2020-02-17 23:31:09
Local clock offset: 3.929 ms
Remote clock offset: 5.568 ms

# Below is generated by plot.py at 2020-02-18 00:14:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 44.021 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 44.021 ms
Loss rate: 0.27%
```

Run 5: Report of TCP Vegas — Data Link

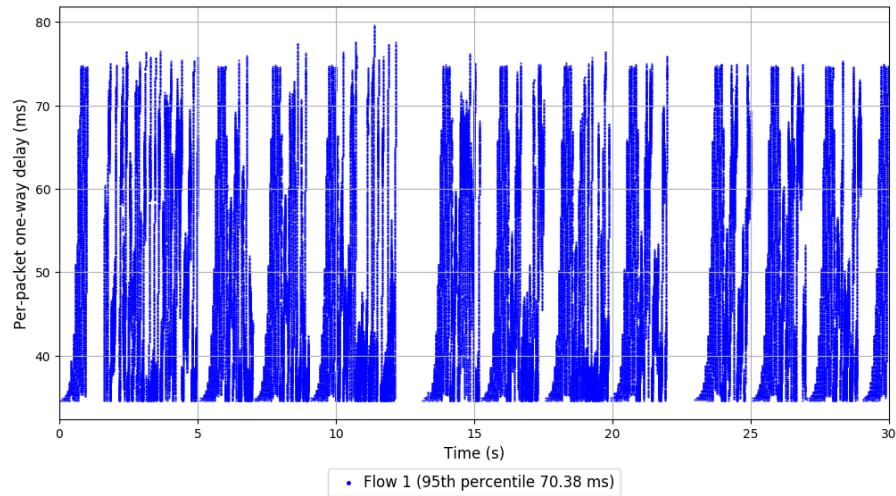
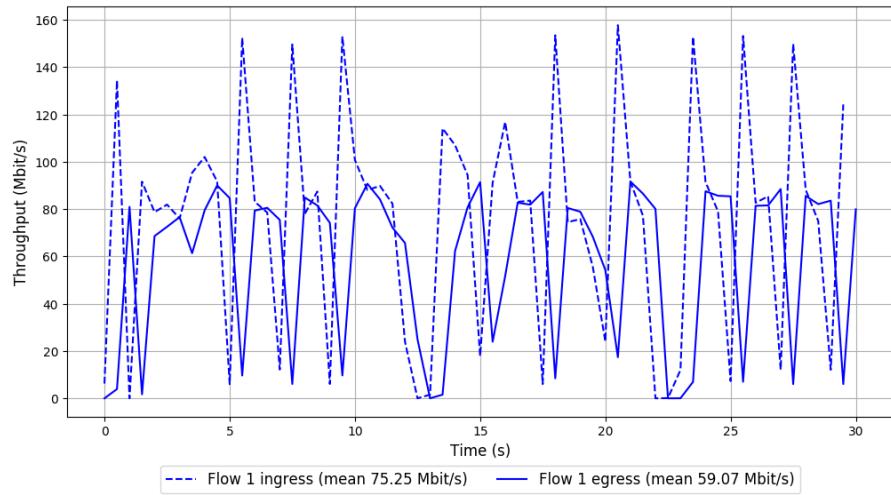


Run 1: Statistics of Verus

```
Start at: 2020-02-17 21:56:22
End at: 2020-02-17 21:56:52
Local clock offset: 5.085 ms
Remote clock offset: 5.89 ms

# Below is generated by plot.py at 2020-02-18 00:14:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.07 Mbit/s
95th percentile per-packet one-way delay: 70.376 ms
Loss rate: 21.43%
-- Flow 1:
Average throughput: 59.07 Mbit/s
95th percentile per-packet one-way delay: 70.376 ms
Loss rate: 21.43%
```

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

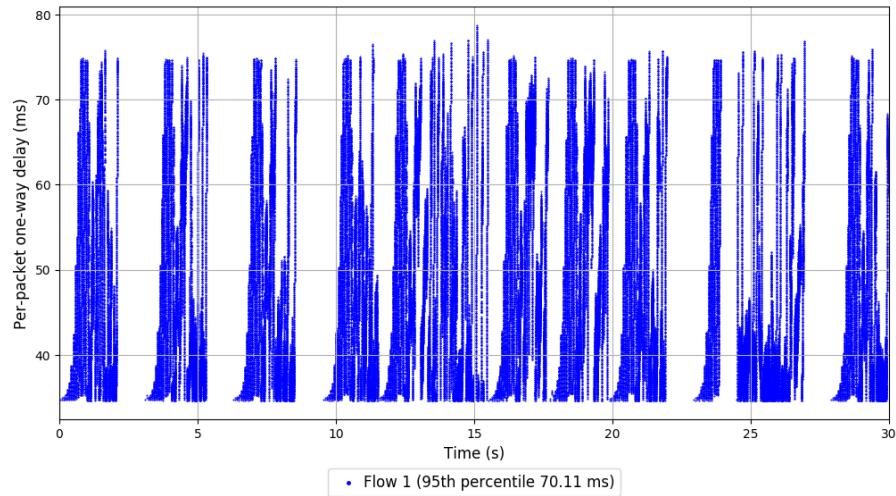
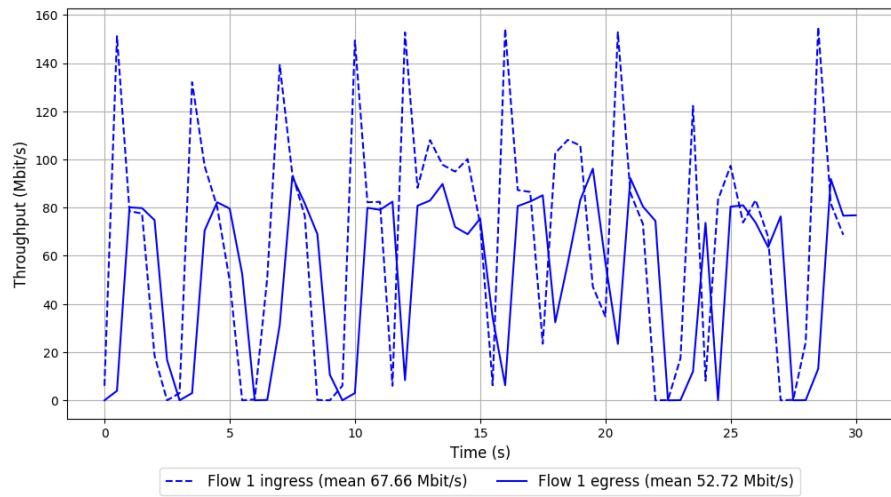


Run 2: Statistics of Verus

```
Start at: 2020-02-17 22:27:40
End at: 2020-02-17 22:28:10
Local clock offset: 6.152 ms
Remote clock offset: 5.98 ms

# Below is generated by plot.py at 2020-02-18 00:14:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.72 Mbit/s
95th percentile per-packet one-way delay: 70.108 ms
Loss rate: 22.02%
-- Flow 1:
Average throughput: 52.72 Mbit/s
95th percentile per-packet one-way delay: 70.108 ms
Loss rate: 22.02%
```

Run 2: Report of Verus — Data Link

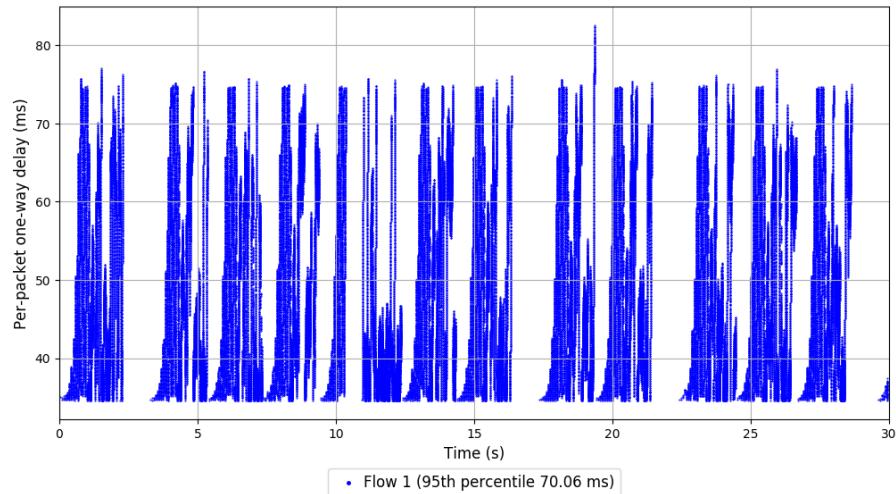
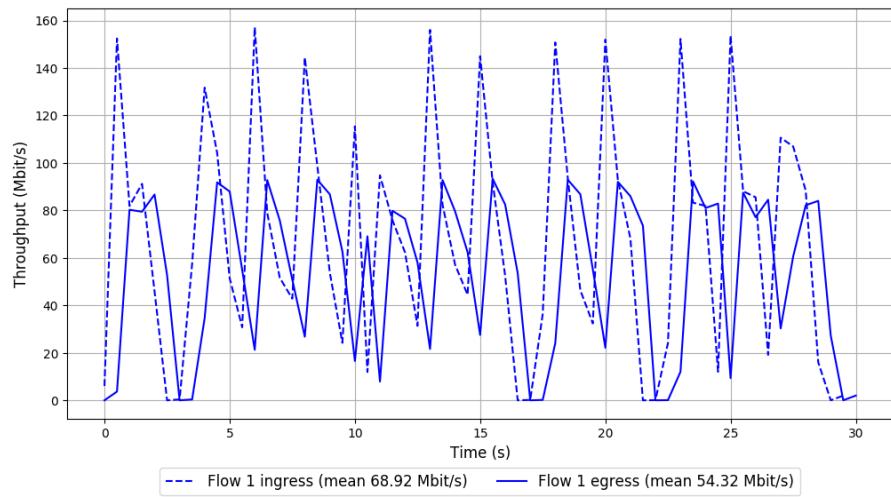


Run 3: Statistics of Verus

```
Start at: 2020-02-17 22:56:47
End at: 2020-02-17 22:57:17
Local clock offset: 5.921 ms
Remote clock offset: 5.688 ms

# Below is generated by plot.py at 2020-02-18 00:14:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.32 Mbit/s
95th percentile per-packet one-way delay: 70.061 ms
Loss rate: 21.17%
-- Flow 1:
Average throughput: 54.32 Mbit/s
95th percentile per-packet one-way delay: 70.061 ms
Loss rate: 21.17%
```

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

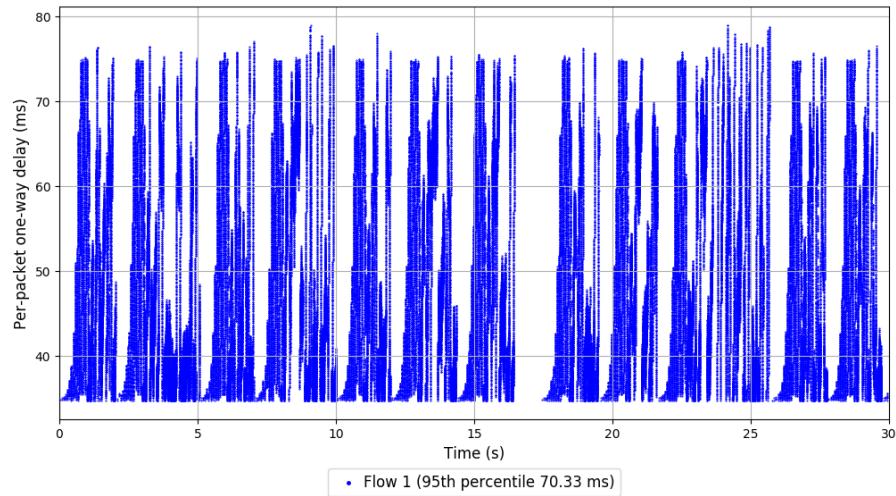
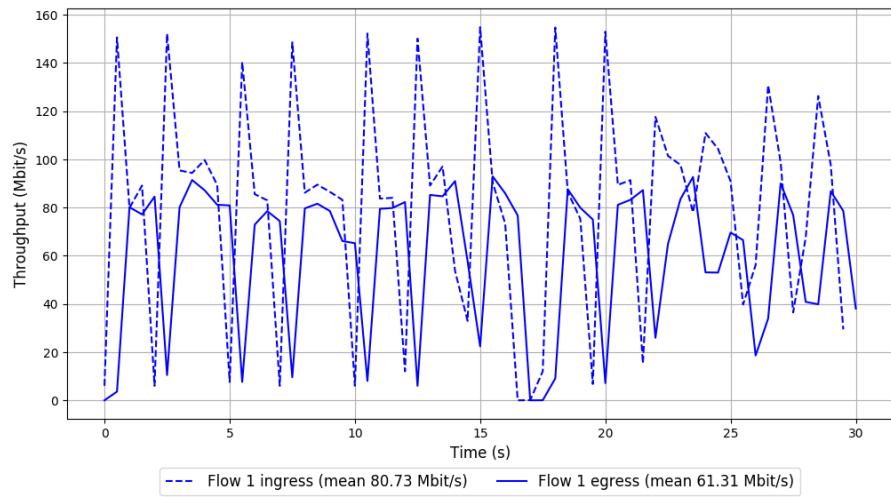


Run 4: Statistics of Verus

```
Start at: 2020-02-17 23:26:57
End at: 2020-02-17 23:27:27
Local clock offset: 3.73 ms
Remote clock offset: 5.689 ms

# Below is generated by plot.py at 2020-02-18 00:14:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.31 Mbit/s
95th percentile per-packet one-way delay: 70.330 ms
Loss rate: 24.05%
-- Flow 1:
Average throughput: 61.31 Mbit/s
95th percentile per-packet one-way delay: 70.330 ms
Loss rate: 24.05%
```

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

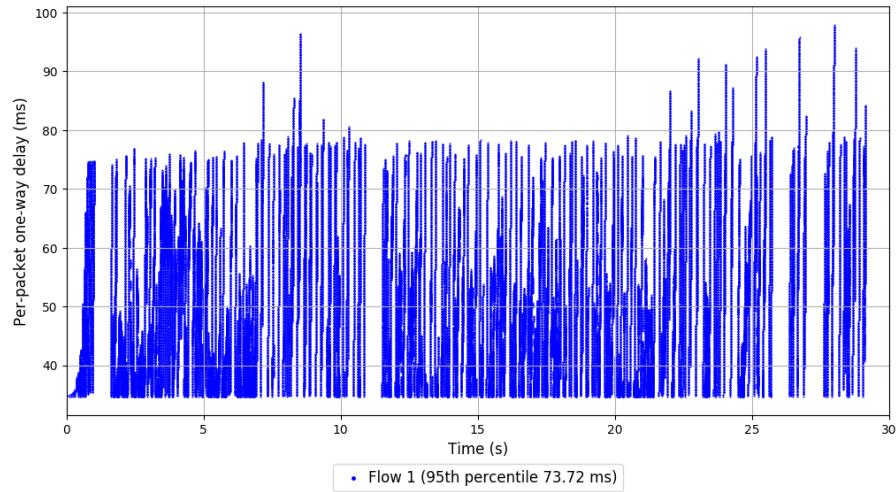
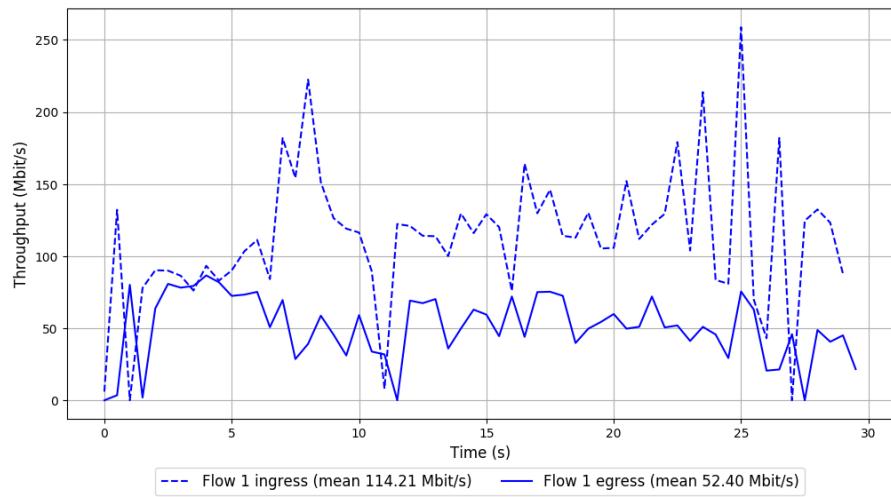


Run 5: Statistics of Verus

```
Start at: 2020-02-17 23:57:08
End at: 2020-02-17 23:57:38
Local clock offset: 4.769 ms
Remote clock offset: 5.499 ms

# Below is generated by plot.py at 2020-02-18 00:14:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.40 Mbit/s
95th percentile per-packet one-way delay: 73.716 ms
Loss rate: 54.05%
-- Flow 1:
Average throughput: 52.40 Mbit/s
95th percentile per-packet one-way delay: 73.716 ms
Loss rate: 54.05%
```

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

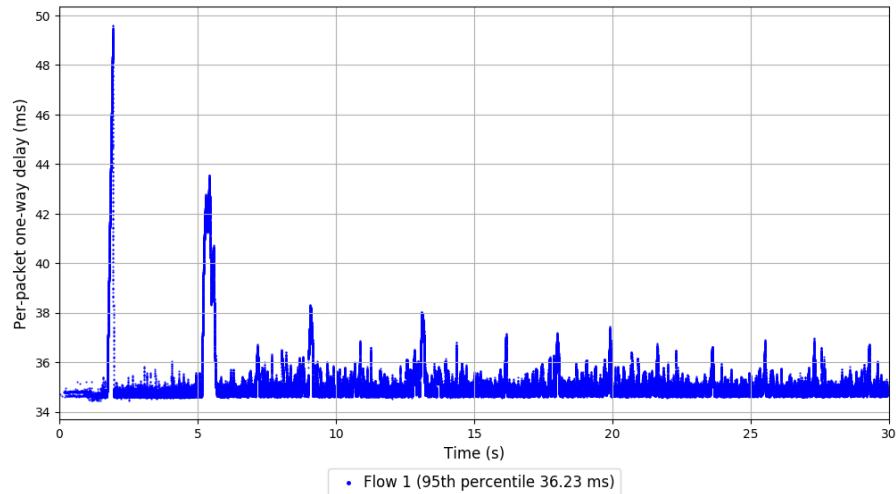
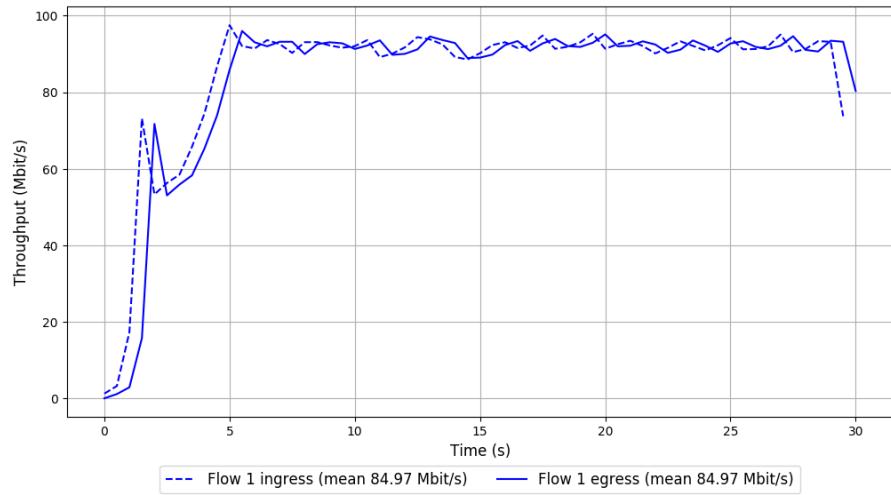


Run 1: Statistics of PCC-Vivace

```
Start at: 2020-02-17 21:51:06
End at: 2020-02-17 21:51:36
Local clock offset: 4.812 ms
Remote clock offset: 5.767 ms

# Below is generated by plot.py at 2020-02-18 00:14:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.97 Mbit/s
95th percentile per-packet one-way delay: 36.230 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.97 Mbit/s
95th percentile per-packet one-way delay: 36.230 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

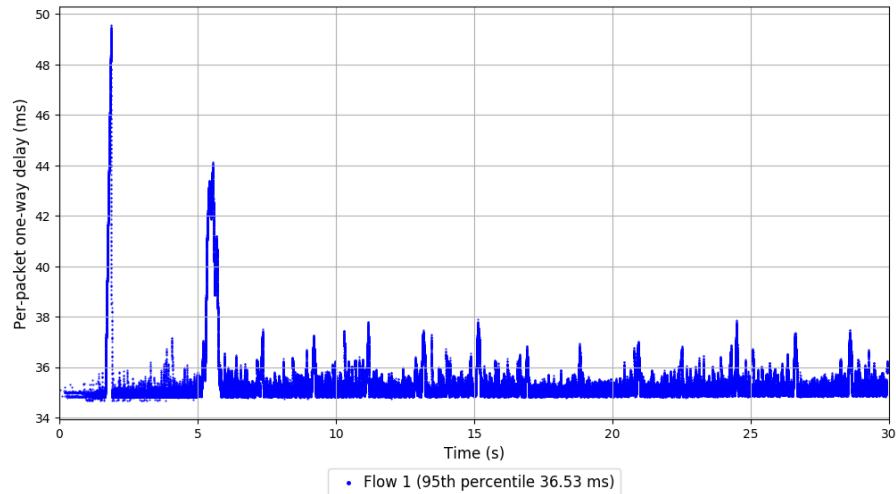
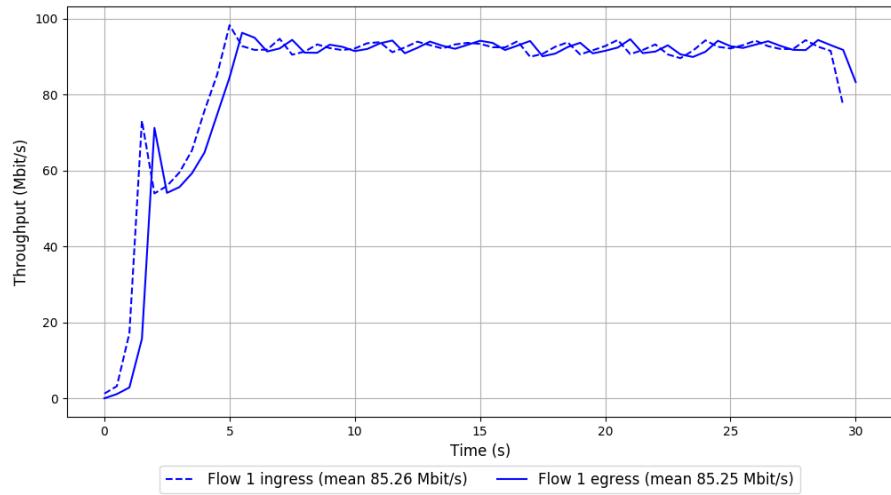


Run 2: Statistics of PCC-Vivace

```
Start at: 2020-02-17 22:22:40
End at: 2020-02-17 22:23:10
Local clock offset: 5.875 ms
Remote clock offset: 6.139 ms

# Below is generated by plot.py at 2020-02-18 00:14:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.25 Mbit/s
95th percentile per-packet one-way delay: 36.532 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.25 Mbit/s
95th percentile per-packet one-way delay: 36.532 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

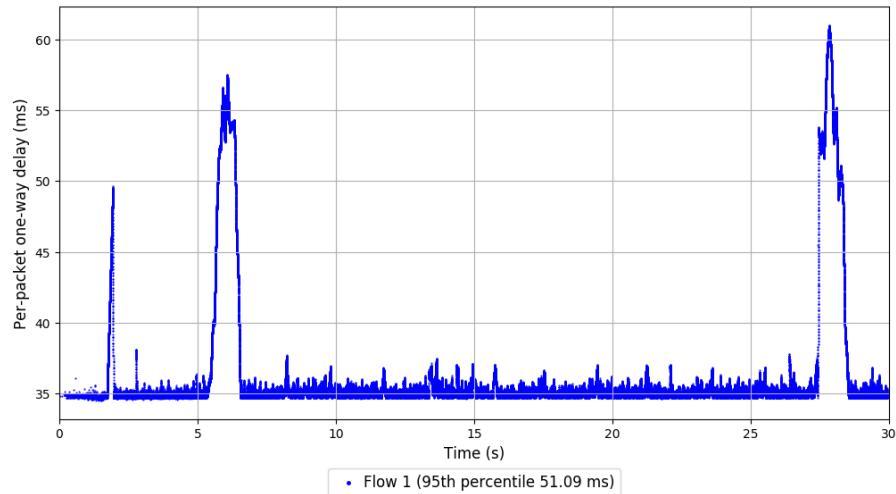
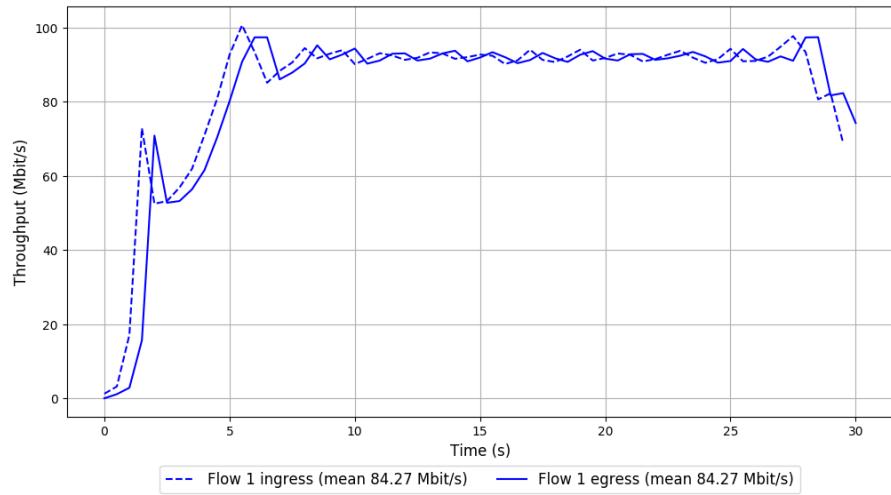


Run 3: Statistics of PCC-Vivace

```
Start at: 2020-02-17 22:51:48
End at: 2020-02-17 22:52:18
Local clock offset: 5.8 ms
Remote clock offset: 5.74 ms

# Below is generated by plot.py at 2020-02-18 00:15:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 51.094 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 51.094 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

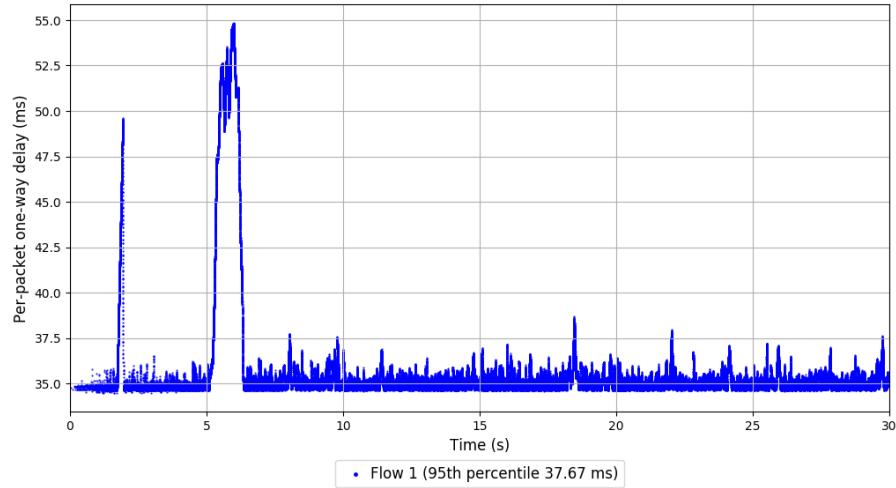
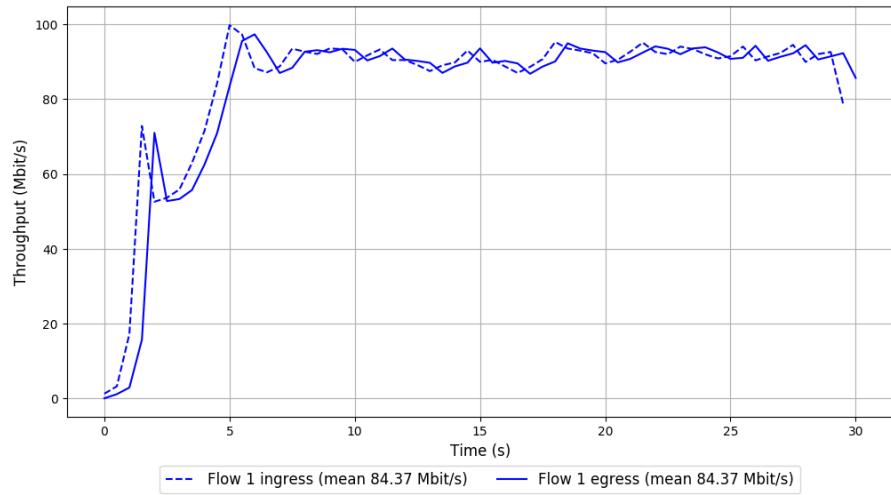


Run 4: Statistics of PCC-Vivace

```
Start at: 2020-02-17 23:21:42
End at: 2020-02-17 23:22:12
Local clock offset: 3.766 ms
Remote clock offset: 5.656 ms

# Below is generated by plot.py at 2020-02-18 00:15:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.37 Mbit/s
95th percentile per-packet one-way delay: 37.666 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.37 Mbit/s
95th percentile per-packet one-way delay: 37.666 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

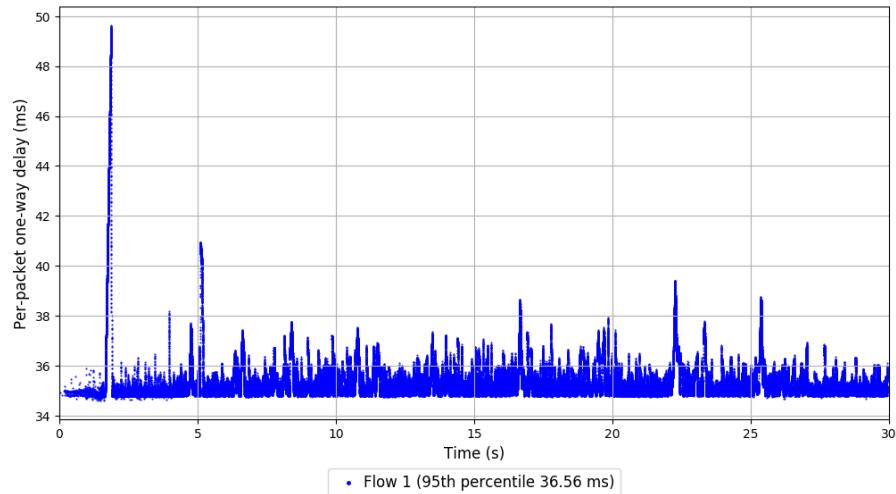
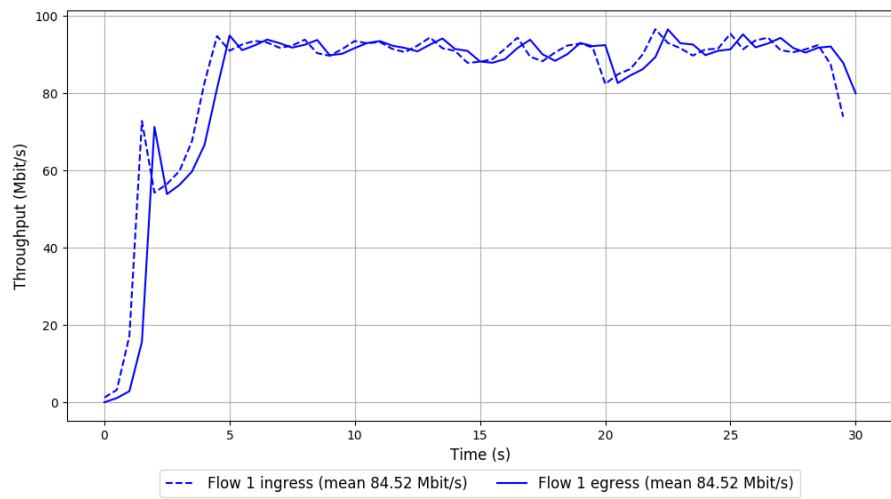


Run 5: Statistics of PCC-Vivace

```
Start at: 2020-02-17 23:51:55
End at: 2020-02-17 23:52:25
Local clock offset: 4.713 ms
Remote clock offset: 5.608 ms

# Below is generated by plot.py at 2020-02-18 00:15:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.52 Mbit/s
95th percentile per-packet one-way delay: 36.560 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.52 Mbit/s
95th percentile per-packet one-way delay: 36.560 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

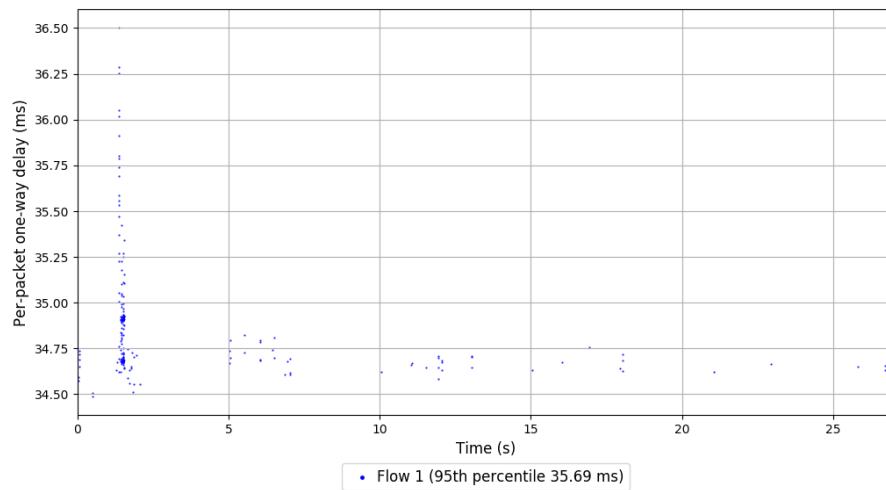
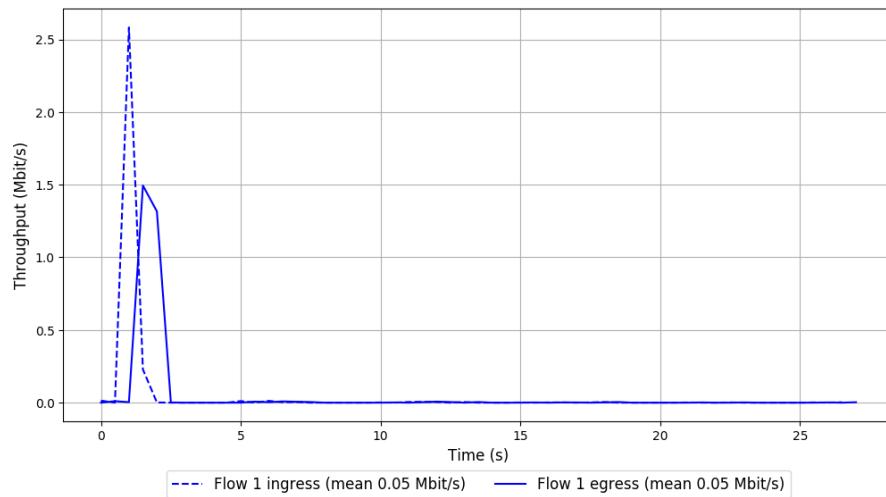


```
Run 1: Statistics of WebRTC media

Start at: 2020-02-17 21:46:05
End at: 2020-02-17 21:46:35
Local clock offset: 4.668 ms
Remote clock offset: 5.775 ms

# Below is generated by plot.py at 2020-02-18 00:15:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.692 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.692 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

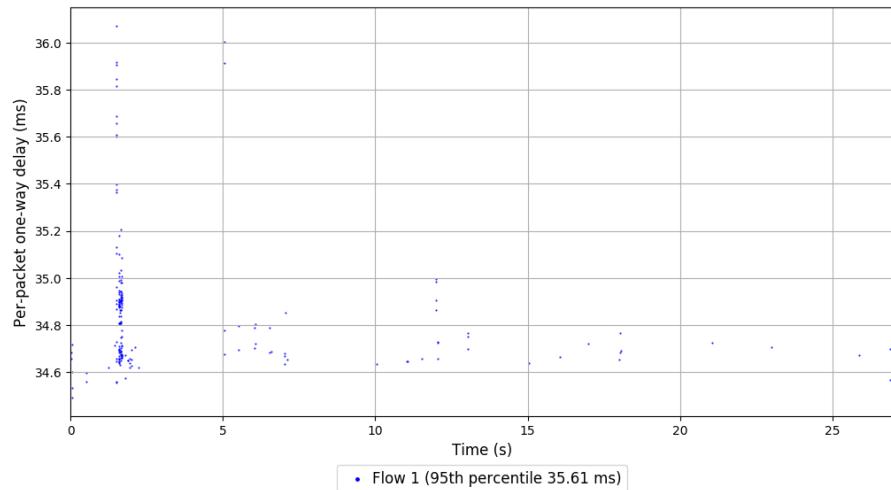
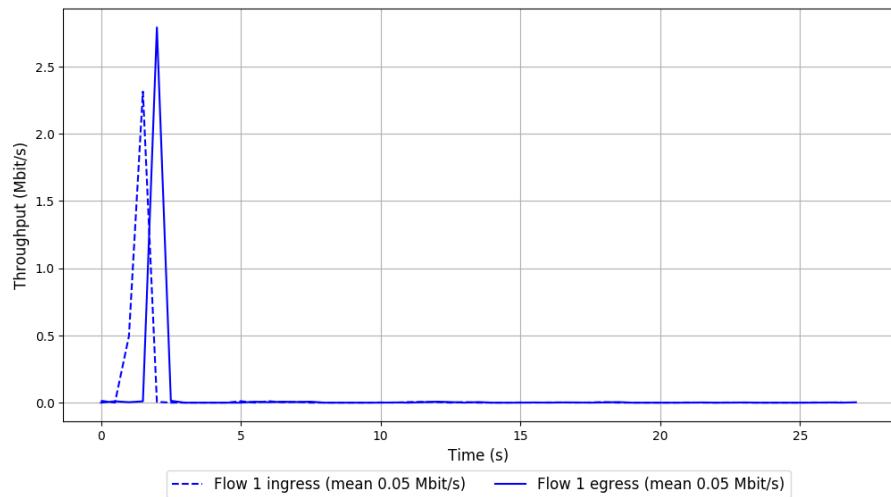


Run 2: Statistics of WebRTC media

```
Start at: 2020-02-17 22:17:51
End at: 2020-02-17 22:18:21
Local clock offset: 5.67 ms
Remote clock offset: 6.183 ms

# Below is generated by plot.py at 2020-02-18 00:15:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.608 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.608 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

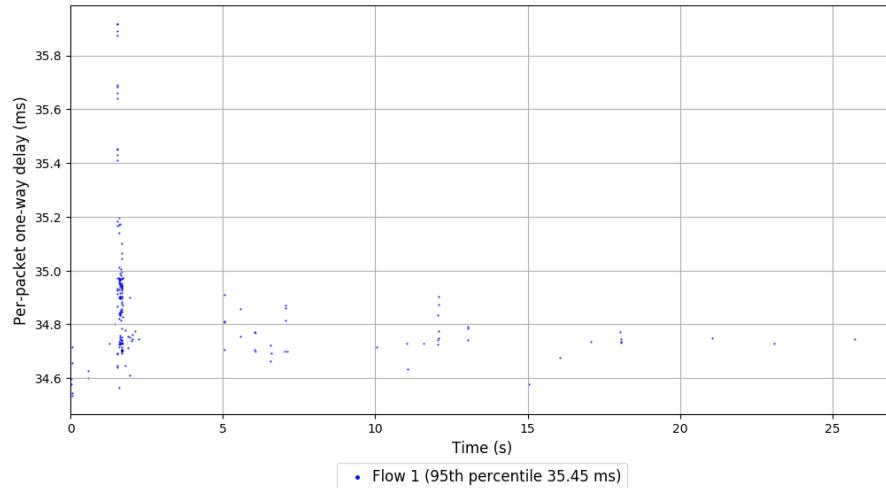
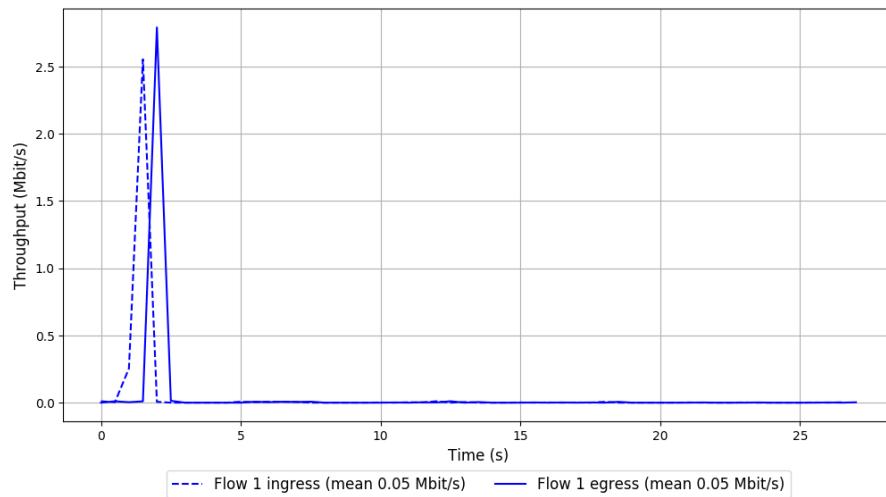


Run 3: Statistics of WebRTC media

```
Start at: 2020-02-17 22:47:06
End at: 2020-02-17 22:47:36
Local clock offset: 5.695 ms
Remote clock offset: 5.808 ms

# Below is generated by plot.py at 2020-02-18 00:15:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.450 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

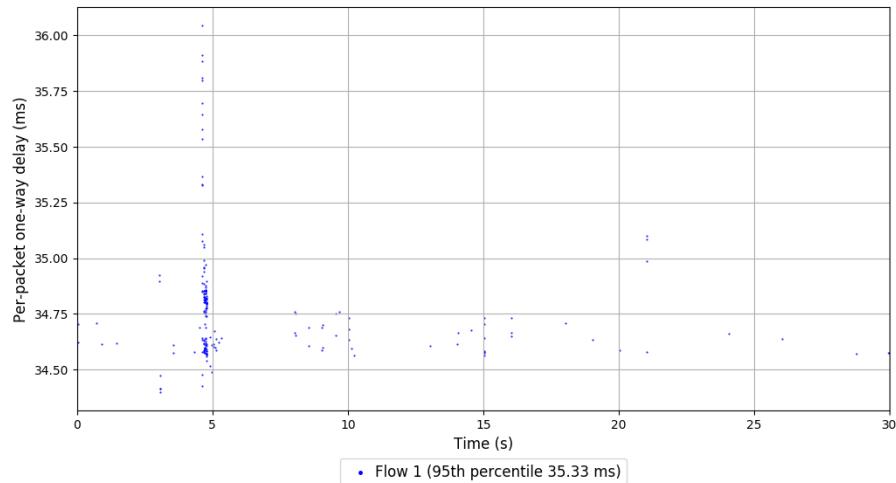
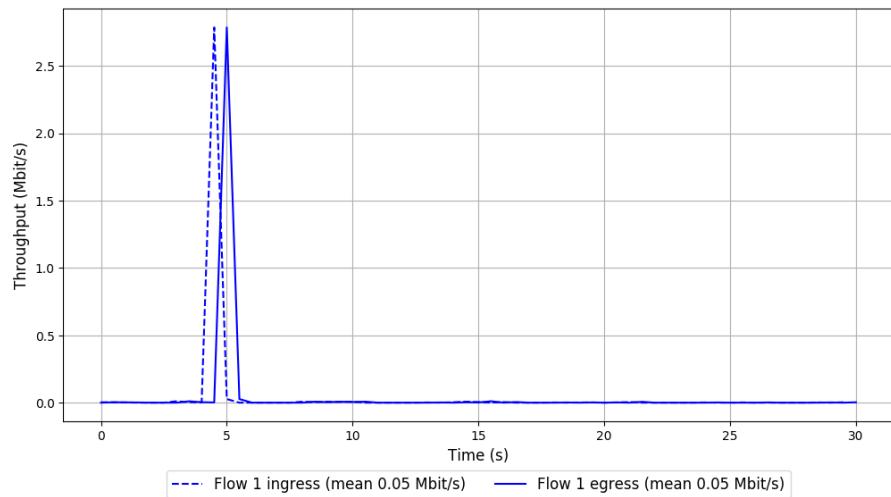


Run 4: Statistics of WebRTC media

```
Start at: 2020-02-17 23:16:54
End at: 2020-02-17 23:17:24
Local clock offset: 3.886 ms
Remote clock offset: 5.544 ms

# Below is generated by plot.py at 2020-02-18 00:15:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.331 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.331 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2020-02-17 23:46:56
End at: 2020-02-17 23:47:26
Local clock offset: 4.644 ms
Remote clock offset: 5.698 ms

# Below is generated by plot.py at 2020-02-18 00:15:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.602 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.602 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

