

## Pantheon Report

Generated at 2019-01-19 07:52:49 (UTC).  
Data path: Mexico on `em1` (*remote*) → AWS California 2 on `ens5` (*local*).  
Repeated the test of 21 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.

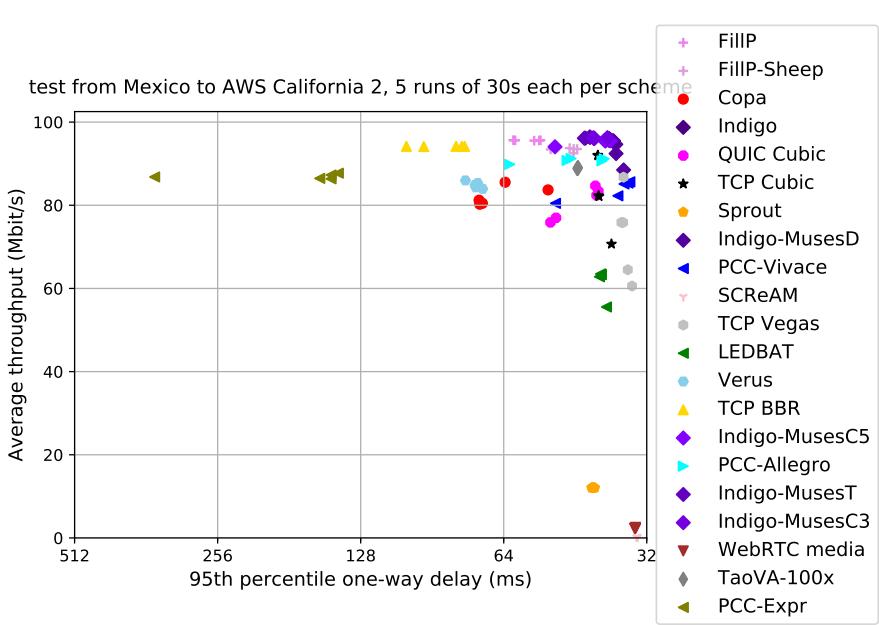
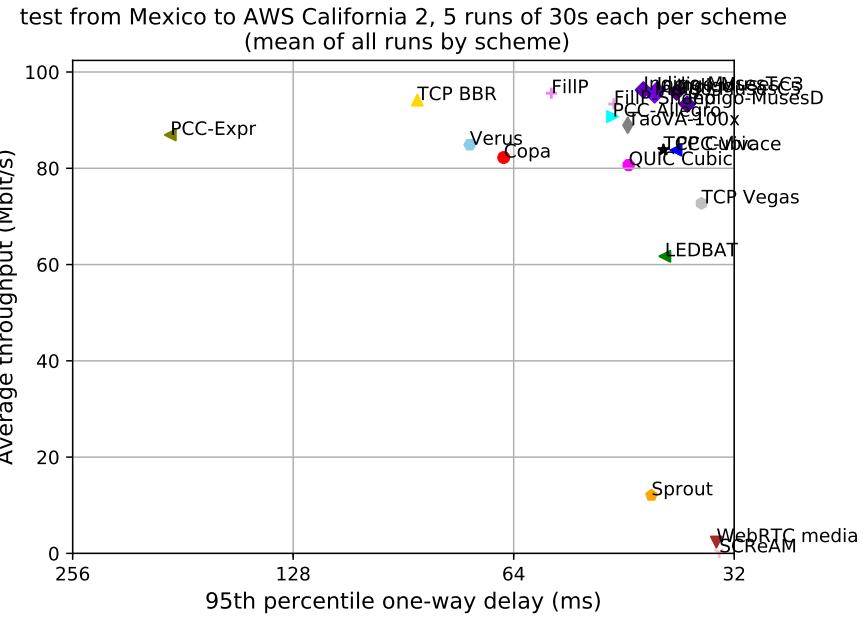
System info:

```
Linux 4.15.0-1031-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 @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefef166e1afe2170
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851



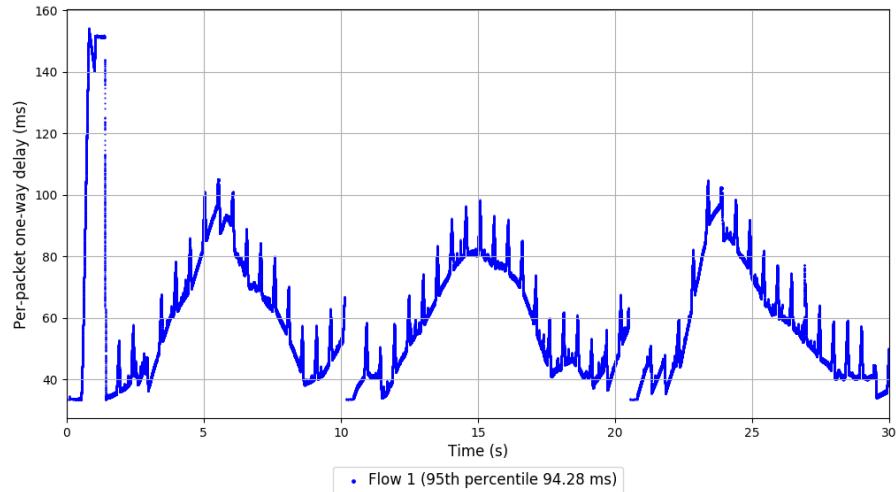
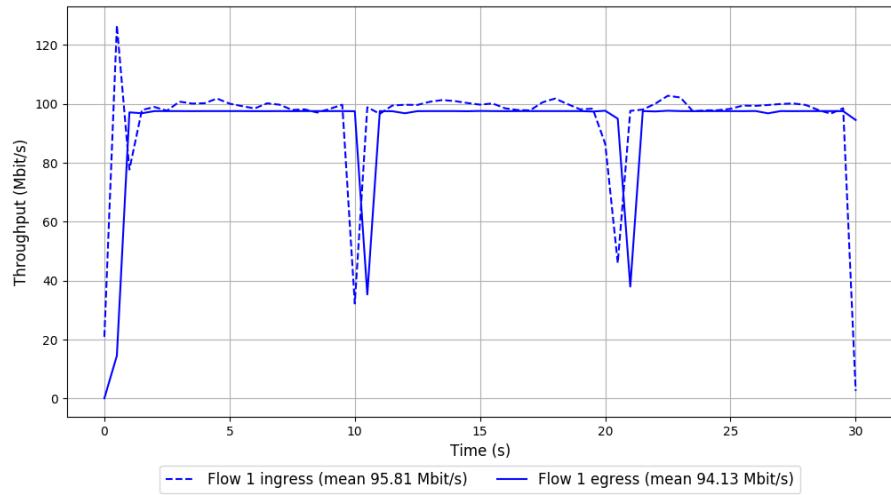
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	94.16	86.65	1.84
Copa	5	82.23	66.03	0.25
TCP Cubic	5	83.83	39.97	0.26
FillP	5	95.61	56.86	0.38
FillP-Sheep	5	93.35	46.71	0.25
Indigo	5	95.82	38.36	0.24
Indigo-MusesC3	5	96.16	40.82	0.26
Indigo-MusesC5	5	95.24	41.10	0.25
Indigo-MusesD	5	93.31	37.09	0.25
Indigo-MusesT	5	96.28	42.57	0.59
LEDBAT	5	61.71	39.80	0.22
PCC-Allegro	5	90.74	46.90	0.28
PCC-Expr	5	86.93	188.34	0.47
QUIC Cubic	5	80.66	44.60	0.30
SCReAM	5	0.21	33.54	0.21
Sprout	5	12.07	41.51	0.22
TaoVA-100x	5	88.93	44.72	0.24
TCP Vegas	5	72.71	35.47	0.28
Verus	5	84.89	73.47	0.50
PCC-Vivace	5	83.76	38.43	0.24
WebRTC media	5	2.35	33.84	0.26

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-19 05:22:08
End at: 2019-01-19 05:22:38
Local clock offset: -0.379 ms
Remote clock offset: -3.755 ms

# Below is generated by plot.py at 2019-01-19 07:40:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.13 Mbit/s
95th percentile per-packet one-way delay: 94.280 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 94.13 Mbit/s
95th percentile per-packet one-way delay: 94.280 ms
Loss rate: 1.96%
```

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

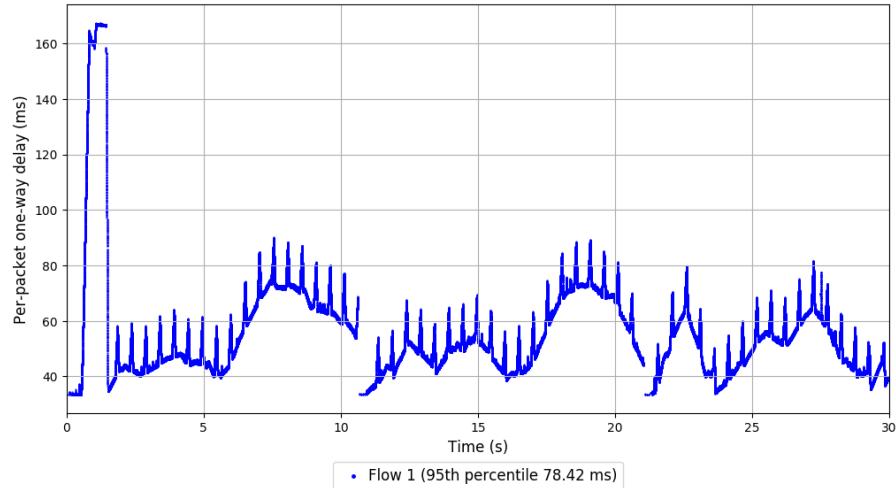
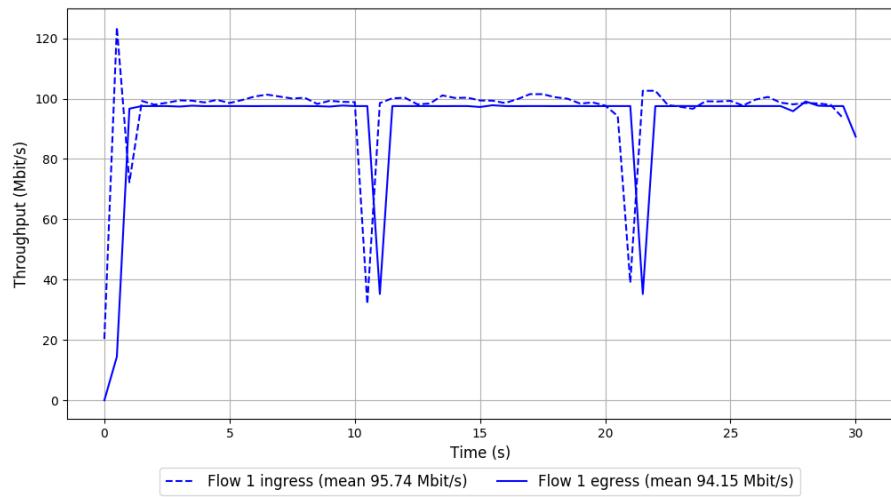


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-19 05:49:47
End at: 2019-01-19 05:50:17
Local clock offset: 0.182 ms
Remote clock offset: -1.911 ms

# Below is generated by plot.py at 2019-01-19 07:40:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 78.416 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 78.416 ms
Loss rate: 1.87%
```

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

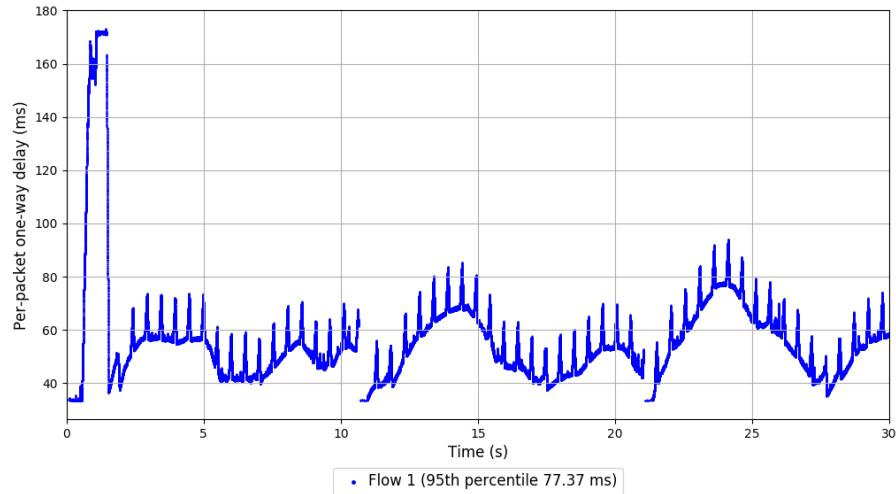
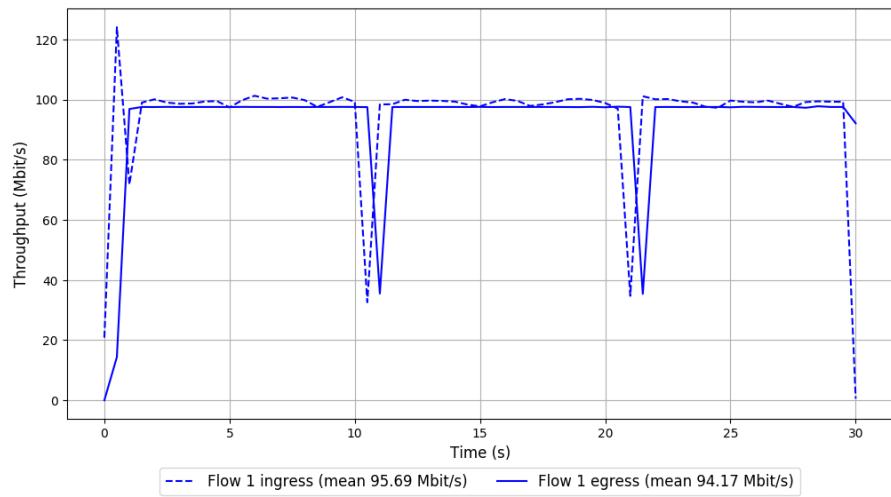


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-19 06:17:37
End at: 2019-01-19 06:18:07
Local clock offset: 0.17 ms
Remote clock offset: -0.224 ms

# Below is generated by plot.py at 2019-01-19 07:40:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 77.367 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 77.367 ms
Loss rate: 1.80%
```

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

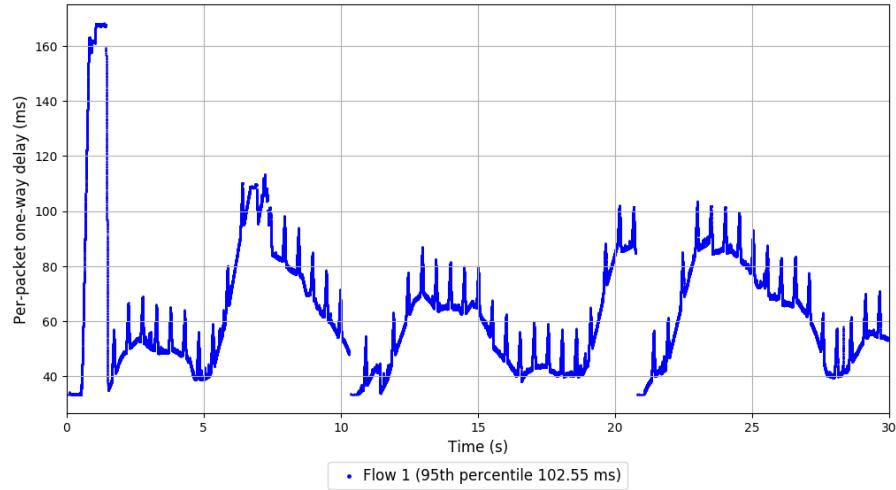
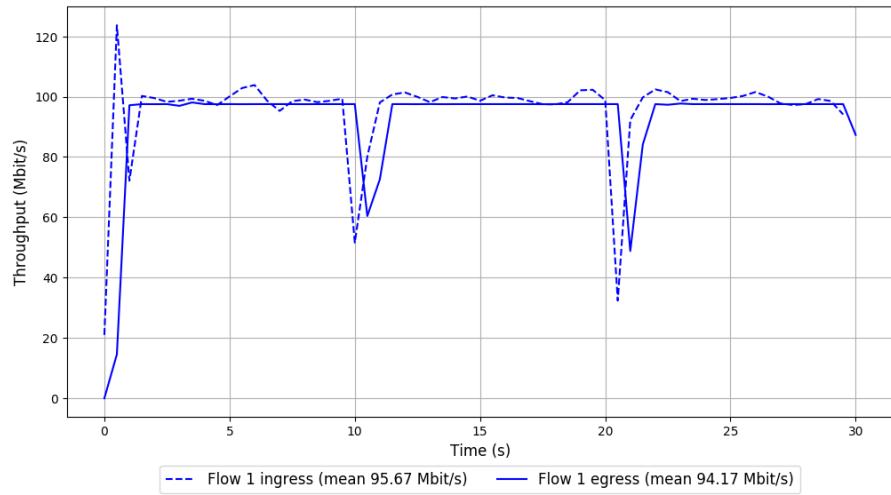


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-19 06:46:27
End at: 2019-01-19 06:46:57
Local clock offset: 0.032 ms
Remote clock offset: 0.774 ms

# Below is generated by plot.py at 2019-01-19 07:40:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 102.554 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 102.554 ms
Loss rate: 1.77%
```

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

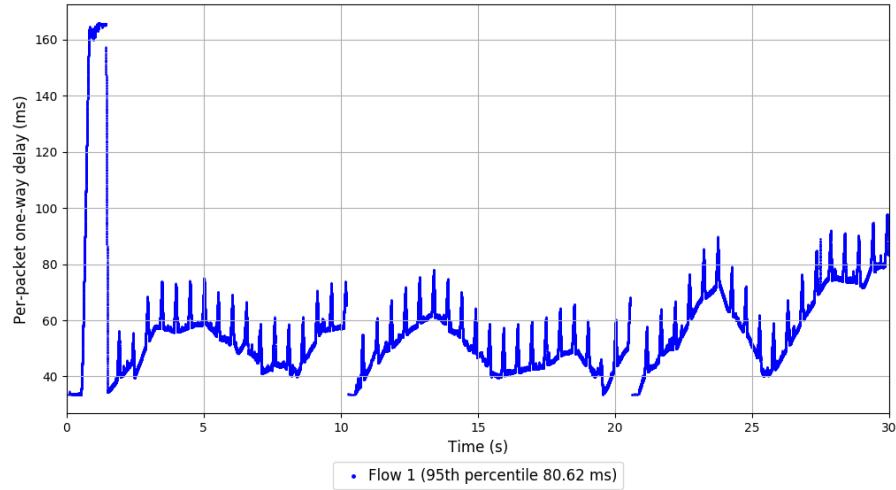
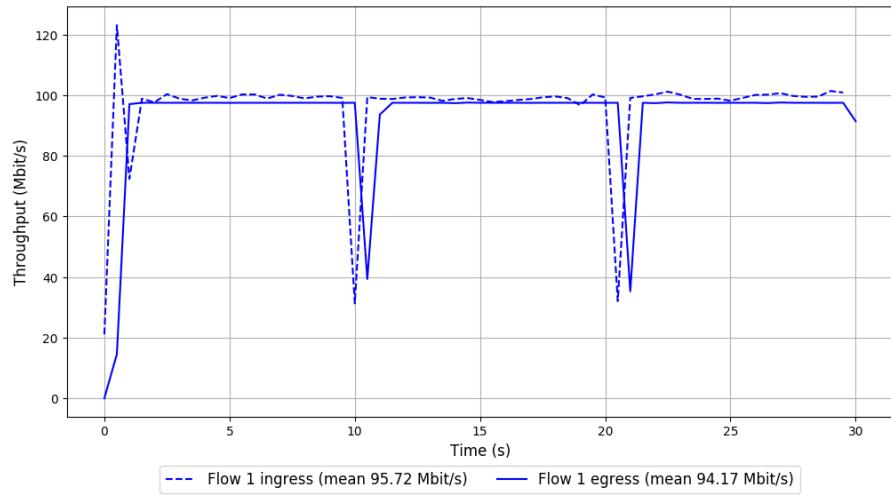


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-19 07:14:12
End at: 2019-01-19 07:14:42
Local clock offset: 0.215 ms
Remote clock offset: 0.392 ms

# Below is generated by plot.py at 2019-01-19 07:40:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 80.617 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 80.617 ms
Loss rate: 1.82%
```

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

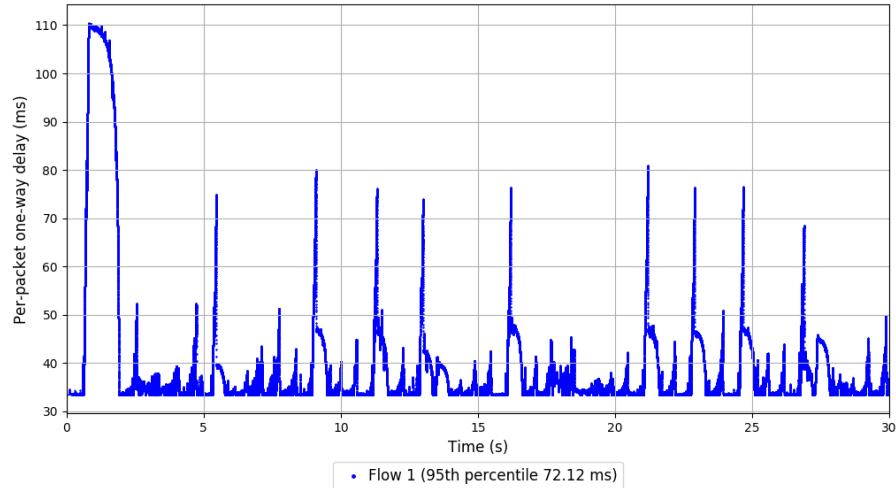
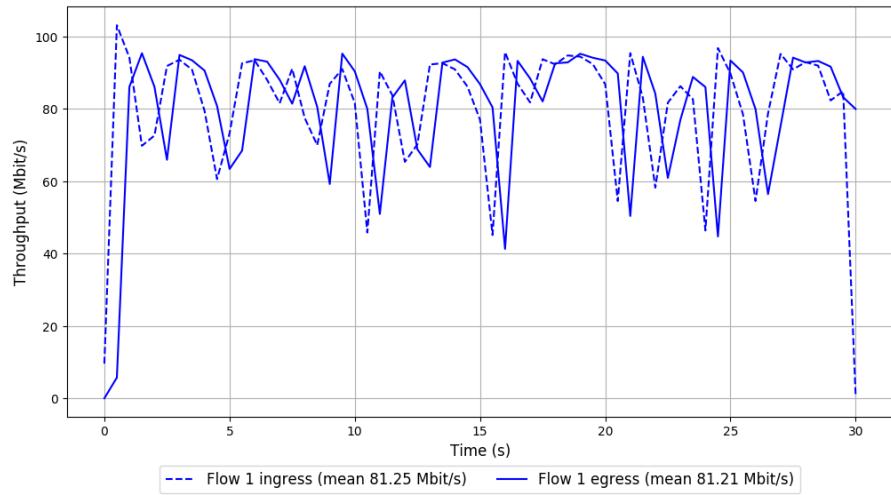


Run 1: Statistics of Copa

```
Start at: 2019-01-19 05:24:52
End at: 2019-01-19 05:25:22
Local clock offset: -0.232 ms
Remote clock offset: -3.649 ms

# Below is generated by plot.py at 2019-01-19 07:41:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.21 Mbit/s
95th percentile per-packet one-way delay: 72.123 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 81.21 Mbit/s
95th percentile per-packet one-way delay: 72.123 ms
Loss rate: 0.26%
```

### Run 1: Report of Copa — Data Link

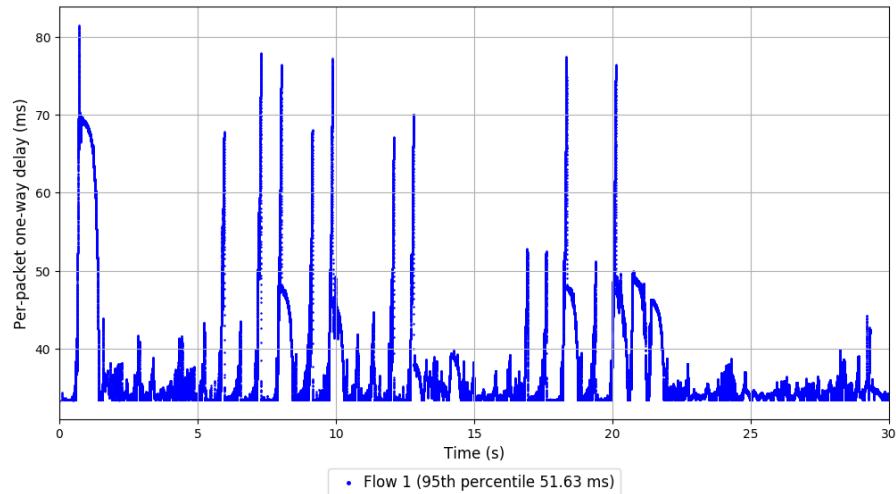
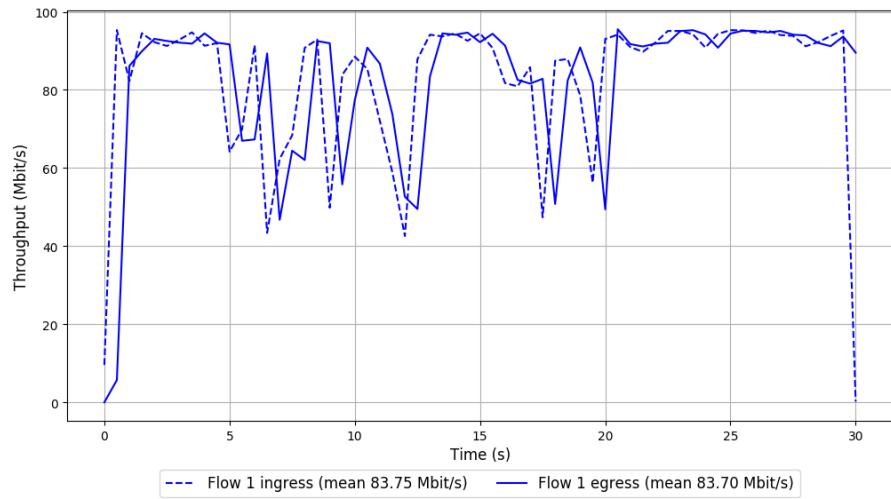


Run 2: Statistics of Copa

```
Start at: 2019-01-19 05:52:24
End at: 2019-01-19 05:52:54
Local clock offset: 0.159 ms
Remote clock offset: -1.759 ms

# Below is generated by plot.py at 2019-01-19 07:41:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.70 Mbit/s
95th percentile per-packet one-way delay: 51.626 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 83.70 Mbit/s
95th percentile per-packet one-way delay: 51.626 ms
Loss rate: 0.27%
```

## Run 2: Report of Copa — Data Link

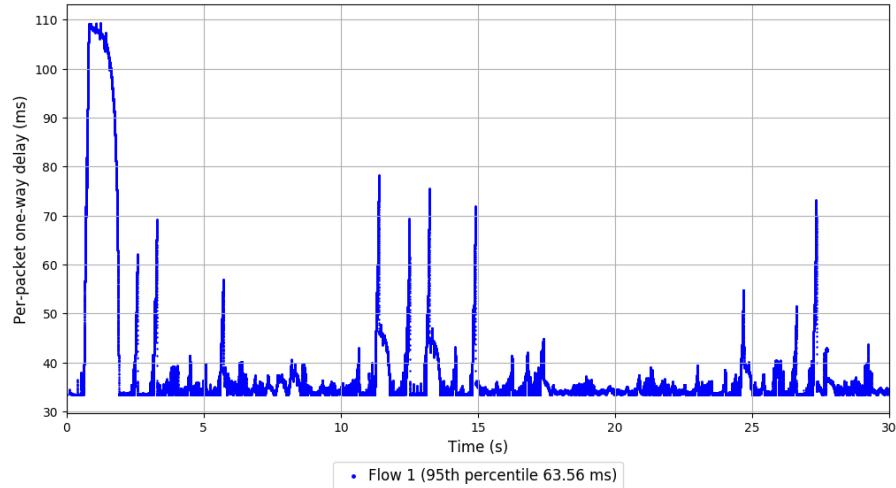
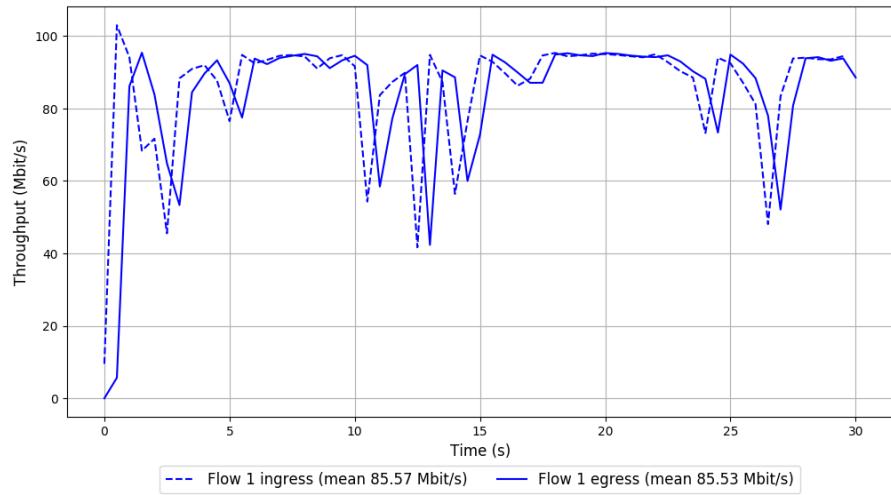


Run 3: Statistics of Copa

```
Start at: 2019-01-19 06:20:46
End at: 2019-01-19 06:21:16
Local clock offset: 0.137 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-01-19 07:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.53 Mbit/s
95th percentile per-packet one-way delay: 63.561 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 85.53 Mbit/s
95th percentile per-packet one-way delay: 63.561 ms
Loss rate: 0.26%
```

### Run 3: Report of Copa — Data Link

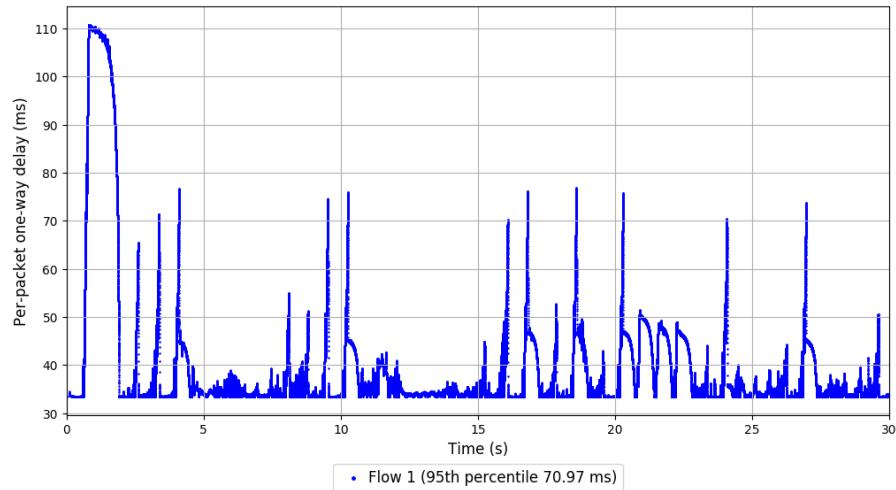
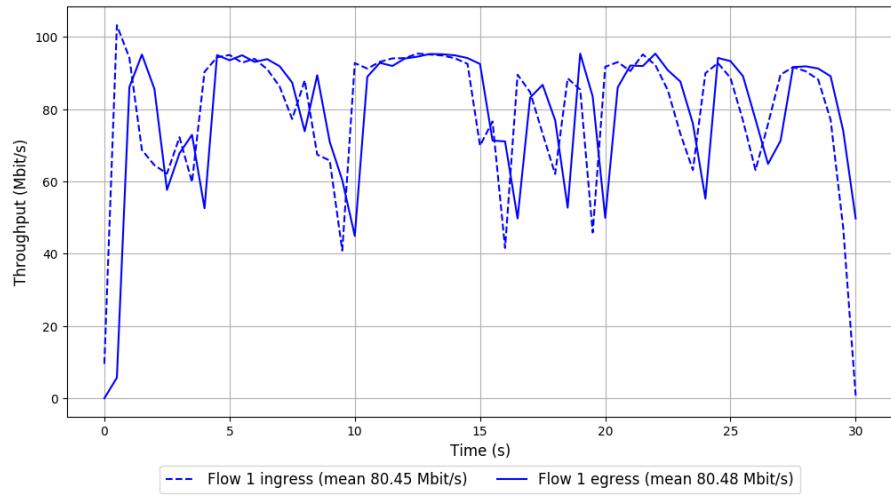


Run 4: Statistics of Copa

```
Start at: 2019-01-19 06:49:15
End at: 2019-01-19 06:49:45
Local clock offset: 0.07 ms
Remote clock offset: 0.775 ms

# Below is generated by plot.py at 2019-01-19 07:42:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.48 Mbit/s
95th percentile per-packet one-way delay: 70.971 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 80.48 Mbit/s
95th percentile per-packet one-way delay: 70.971 ms
Loss rate: 0.18%
```

### Run 4: Report of Copa — Data Link

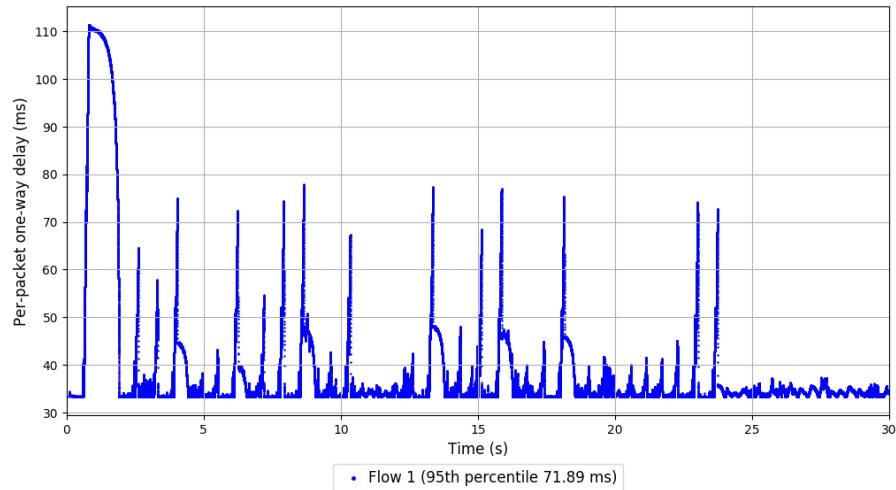
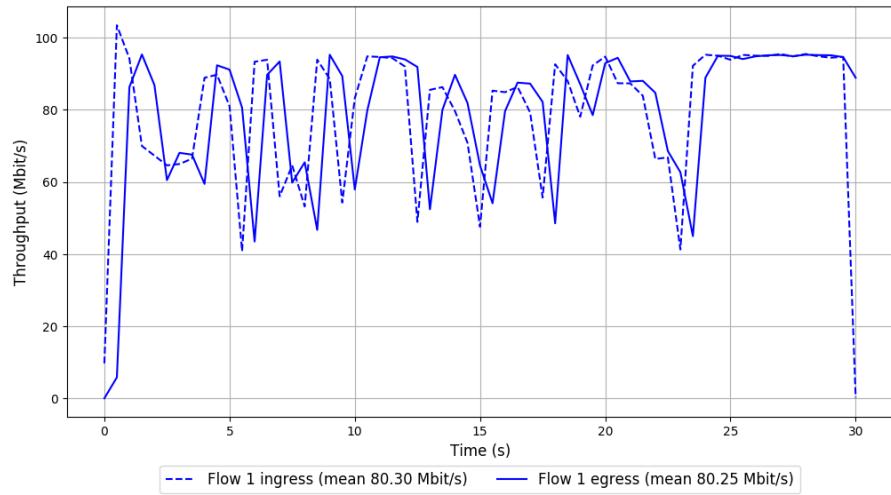


Run 5: Statistics of Copa

```
Start at: 2019-01-19 07:16:48
End at: 2019-01-19 07:17:18
Local clock offset: 0.224 ms
Remote clock offset: 0.646 ms

# Below is generated by plot.py at 2019-01-19 07:42:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.25 Mbit/s
95th percentile per-packet one-way delay: 71.886 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 80.25 Mbit/s
95th percentile per-packet one-way delay: 71.886 ms
Loss rate: 0.27%
```

### Run 5: Report of Copa — Data Link

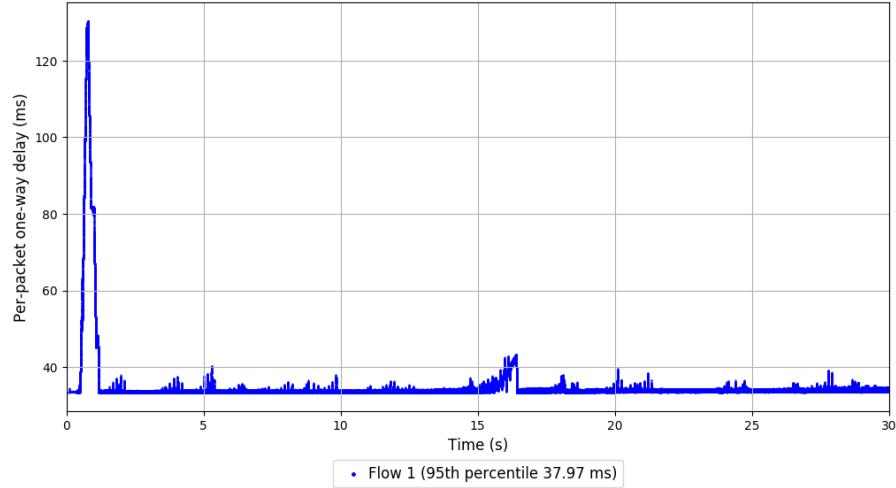
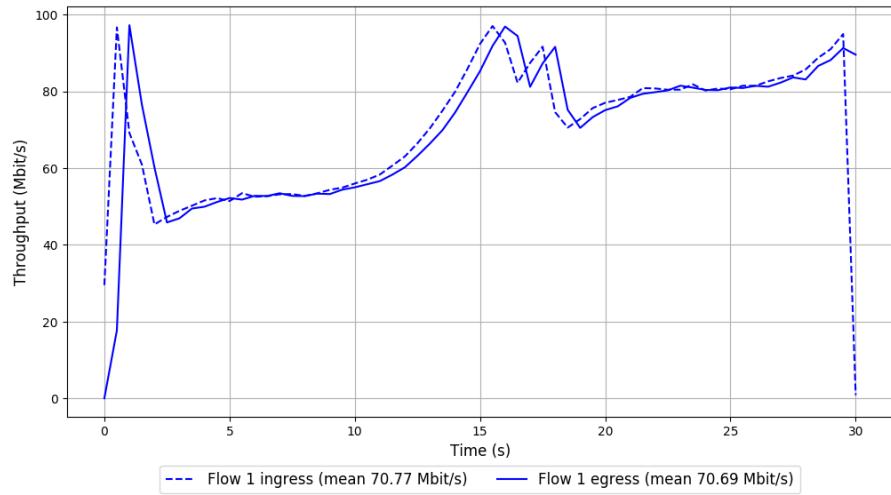


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-19 05:31:52
End at: 2019-01-19 05:32:22
Local clock offset: 0.003 ms
Remote clock offset: -3.141 ms

# Below is generated by plot.py at 2019-01-19 07:42:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.69 Mbit/s
95th percentile per-packet one-way delay: 37.970 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 70.69 Mbit/s
95th percentile per-packet one-way delay: 37.970 ms
Loss rate: 0.33%
```

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

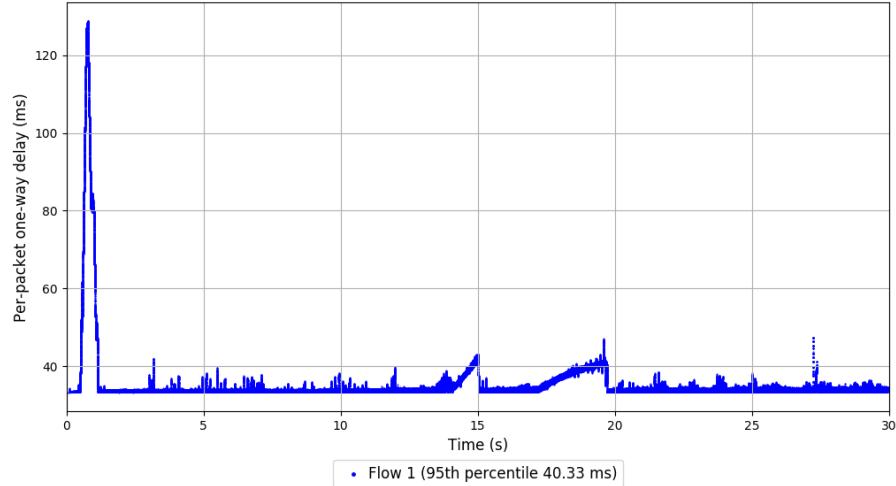
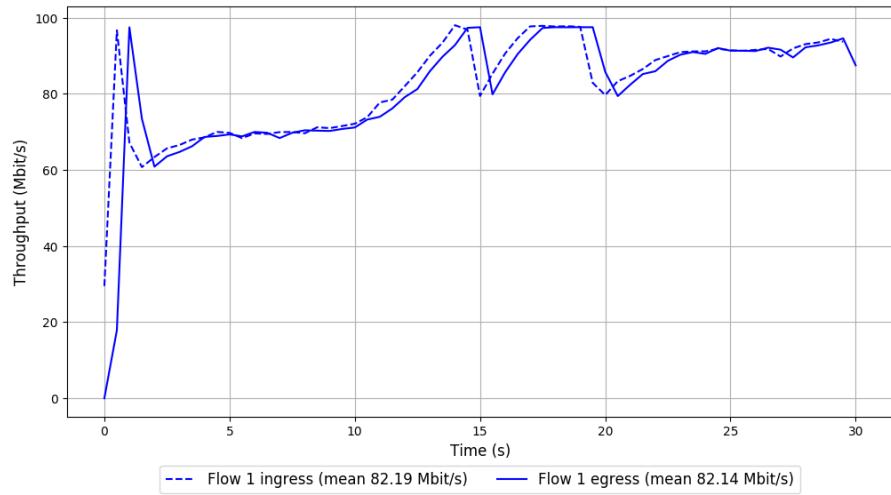


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-19 05:59:16
End at: 2019-01-19 05:59:46
Local clock offset: 0.151 ms
Remote clock offset: -1.266 ms

# Below is generated by plot.py at 2019-01-19 07:42:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.14 Mbit/s
95th percentile per-packet one-way delay: 40.332 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 82.14 Mbit/s
95th percentile per-packet one-way delay: 40.332 ms
Loss rate: 0.26%
```

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

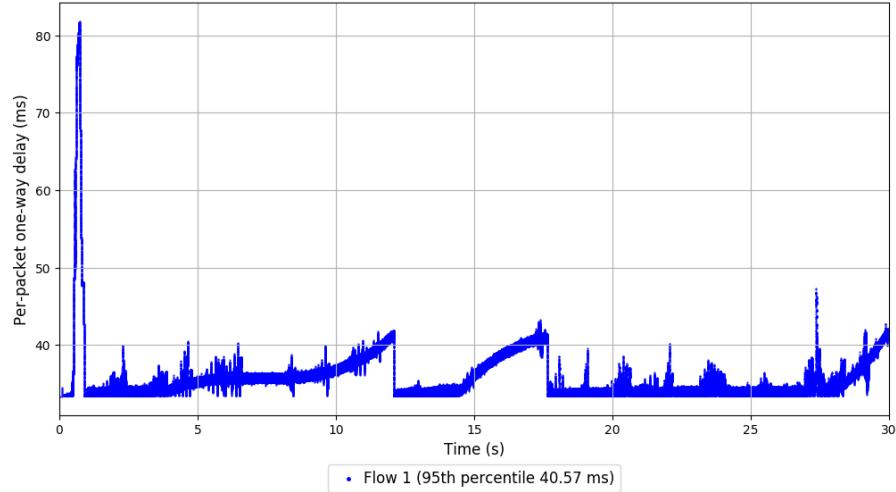
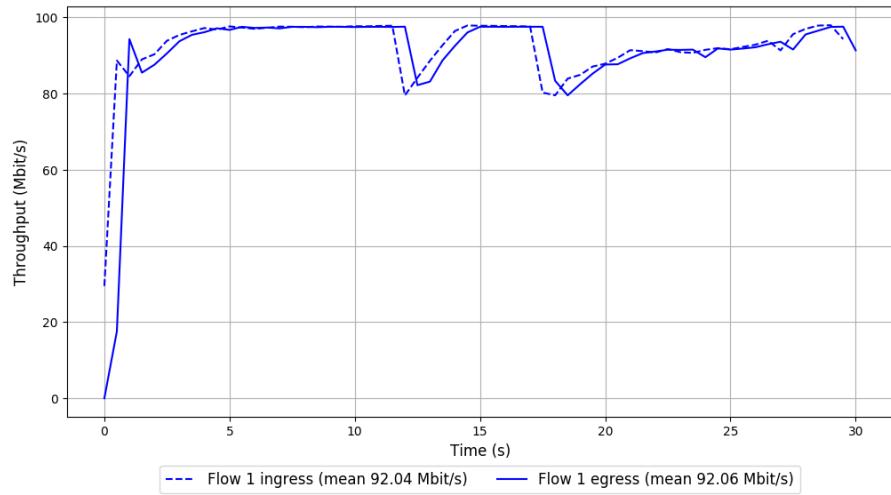


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-19 06:28:02
End at: 2019-01-19 06:28:32
Local clock offset: 0.072 ms
Remote clock offset: 0.472 ms

# Below is generated by plot.py at 2019-01-19 07:42:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.06 Mbit/s
95th percentile per-packet one-way delay: 40.567 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 92.06 Mbit/s
95th percentile per-packet one-way delay: 40.567 ms
Loss rate: 0.20%
```

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

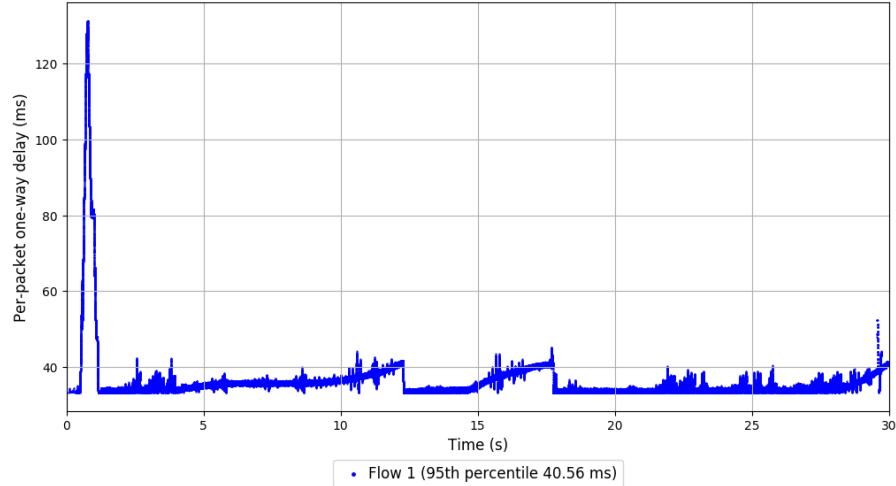
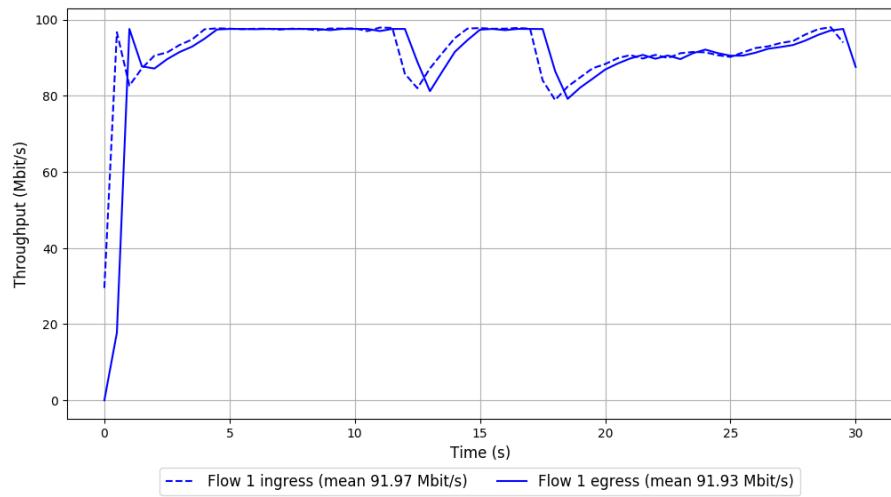


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-19 06:56:04
End at: 2019-01-19 06:56:34
Local clock offset: 0.139 ms
Remote clock offset: 0.785 ms

# Below is generated by plot.py at 2019-01-19 07:42:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.93 Mbit/s
95th percentile per-packet one-way delay: 40.556 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 91.93 Mbit/s
95th percentile per-packet one-way delay: 40.556 ms
Loss rate: 0.26%
```

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

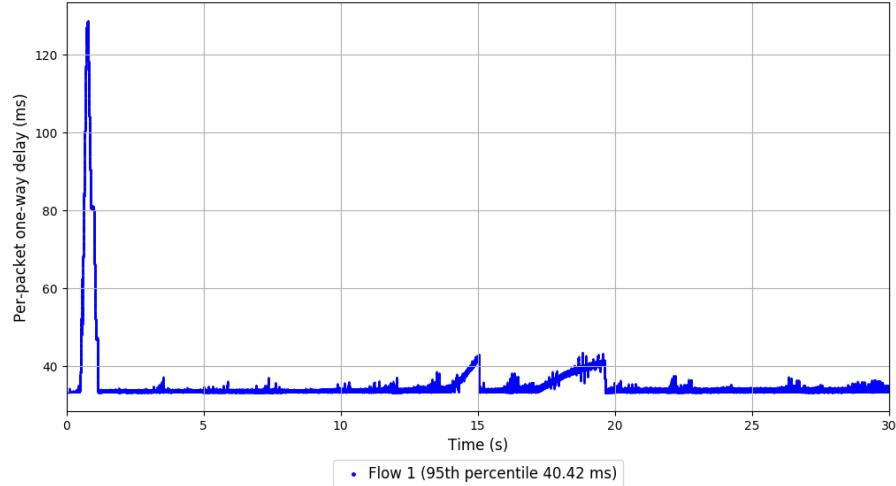
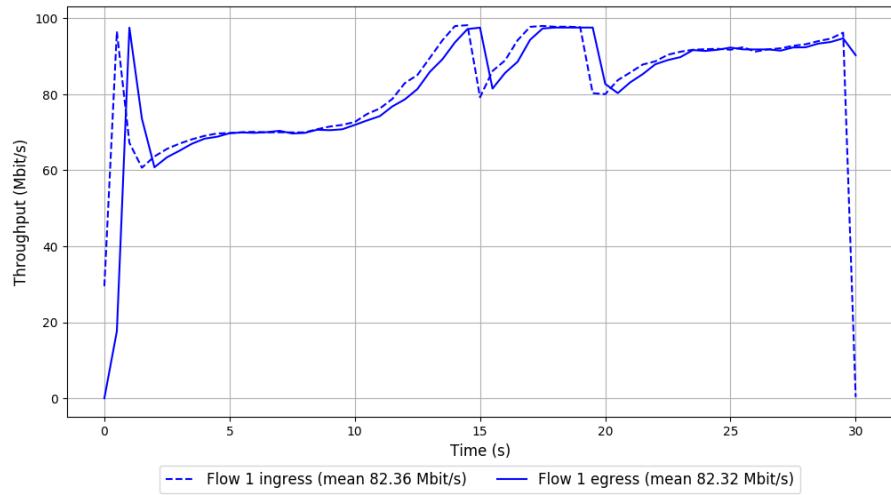


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-19 07:23:48
End at: 2019-01-19 07:24:18
Local clock offset: 0.201 ms
Remote clock offset: 0.669 ms

# Below is generated by plot.py at 2019-01-19 07:42:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.32 Mbit/s
95th percentile per-packet one-way delay: 40.424 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 82.32 Mbit/s
95th percentile per-packet one-way delay: 40.424 ms
Loss rate: 0.26%
```

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

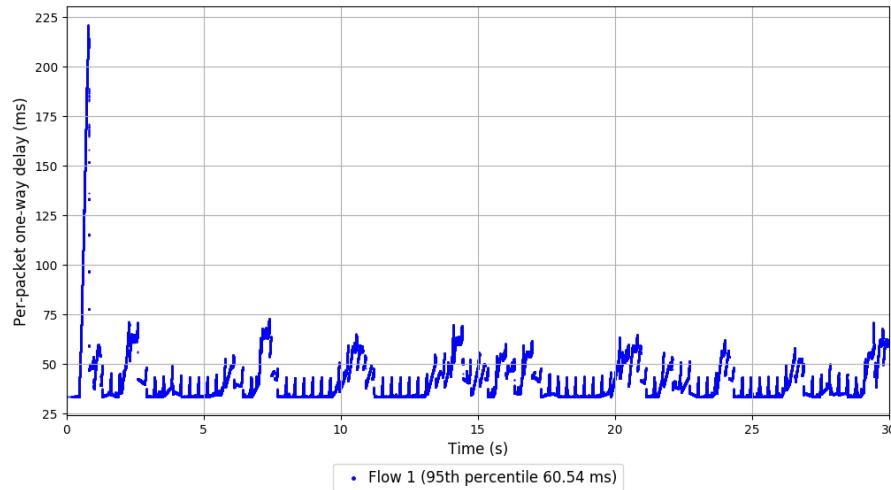
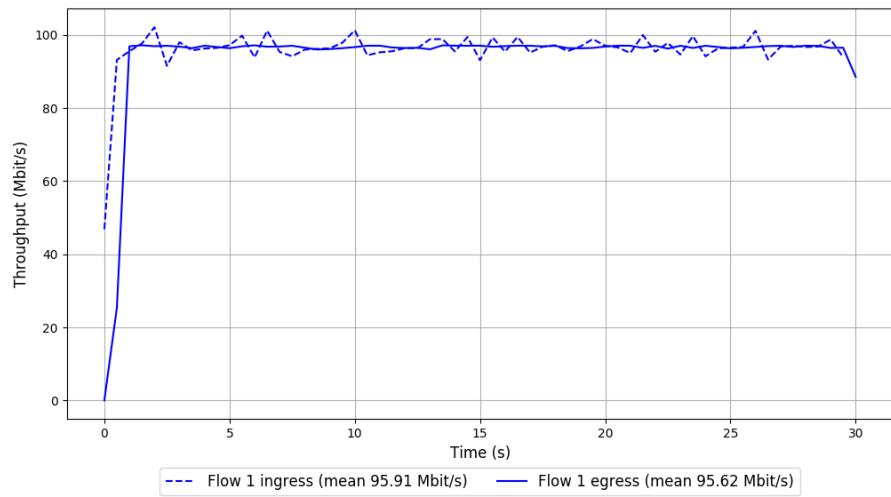


```
Run 1: Statistics of FillP

Start at: 2019-01-19 05:27:48
End at: 2019-01-19 05:28:18
Local clock offset: -0.106 ms
Remote clock offset: -3.648 ms

# Below is generated by plot.py at 2019-01-19 07:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 60.544 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 60.544 ms
Loss rate: 0.51%
```

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

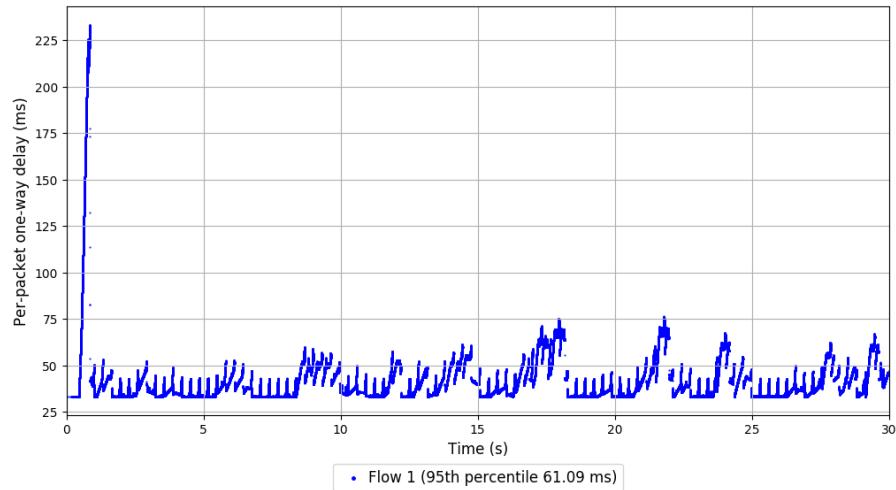
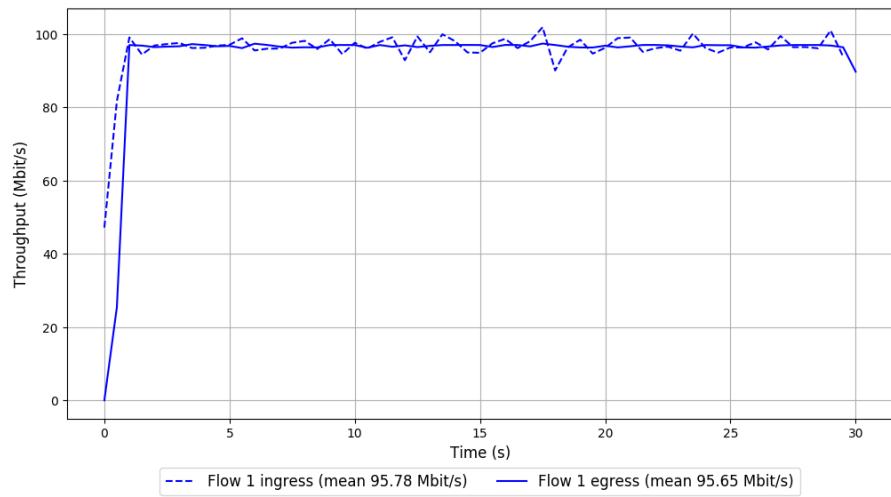


Run 2: Statistics of FillP

```
Start at: 2019-01-19 05:55:18
End at: 2019-01-19 05:55:48
Local clock offset: 0.158 ms
Remote clock offset: -1.544 ms

# Below is generated by plot.py at 2019-01-19 07:42:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 61.091 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 61.091 ms
Loss rate: 0.35%
```

## Run 2: Report of FillP — Data Link

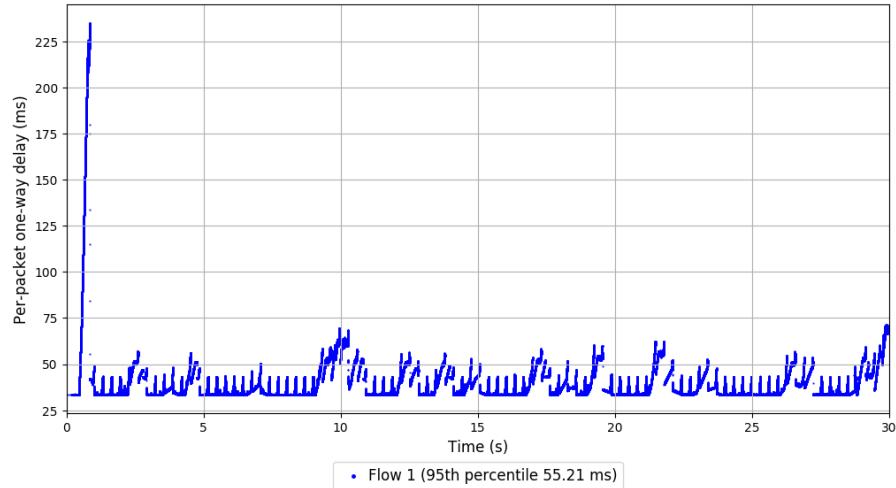
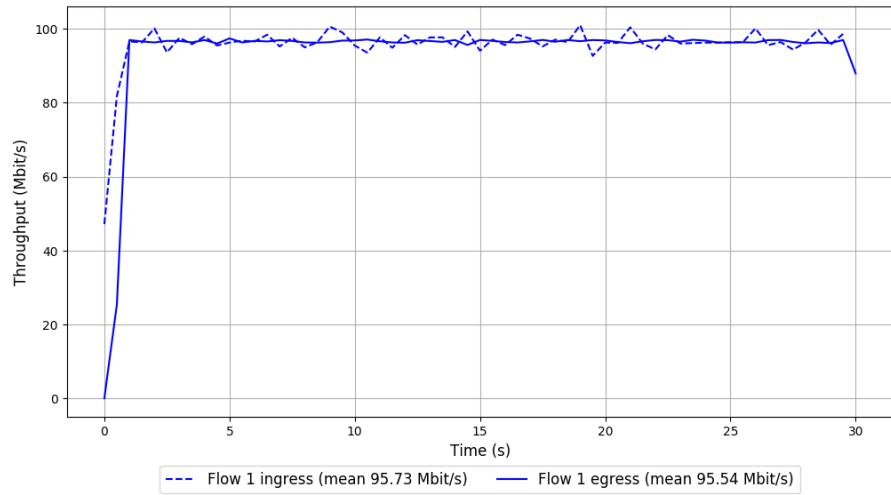


Run 3: Statistics of FillP

```
Start at: 2019-01-19 06:23:49
End at: 2019-01-19 06:24:19
Local clock offset: 0.105 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2019-01-19 07:42:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 55.210 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 55.210 ms
Loss rate: 0.41%
```

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

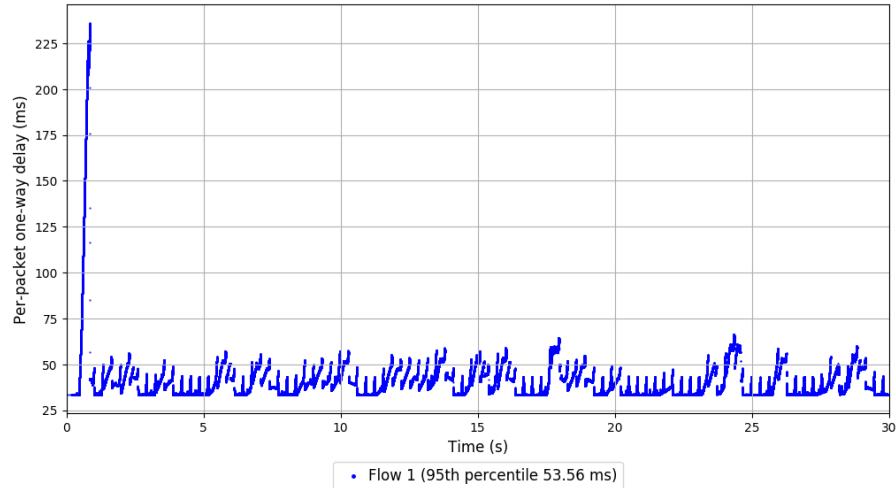
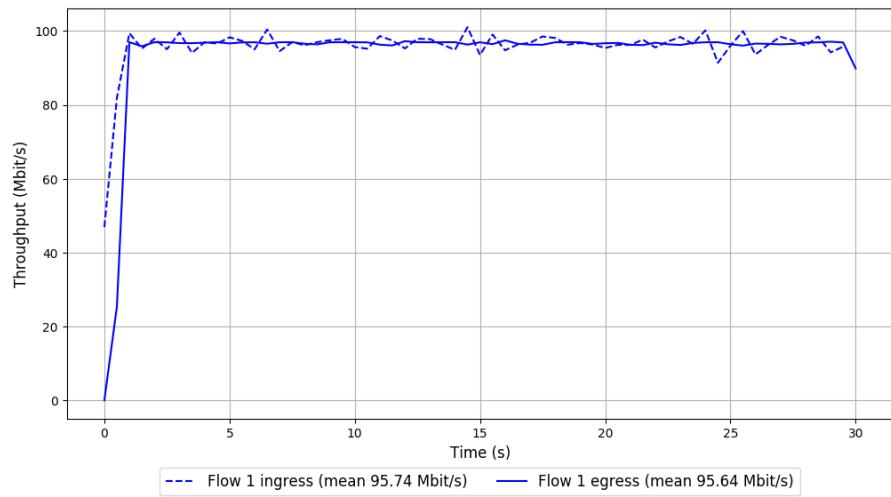


Run 4: Statistics of FillP

```
Start at: 2019-01-19 06:52:01
End at: 2019-01-19 06:52:32
Local clock offset: 0.096 ms
Remote clock offset: 0.654 ms

# Below is generated by plot.py at 2019-01-19 07:42:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 53.556 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 53.556 ms
Loss rate: 0.31%
```

Run 4: Report of FillP — Data Link

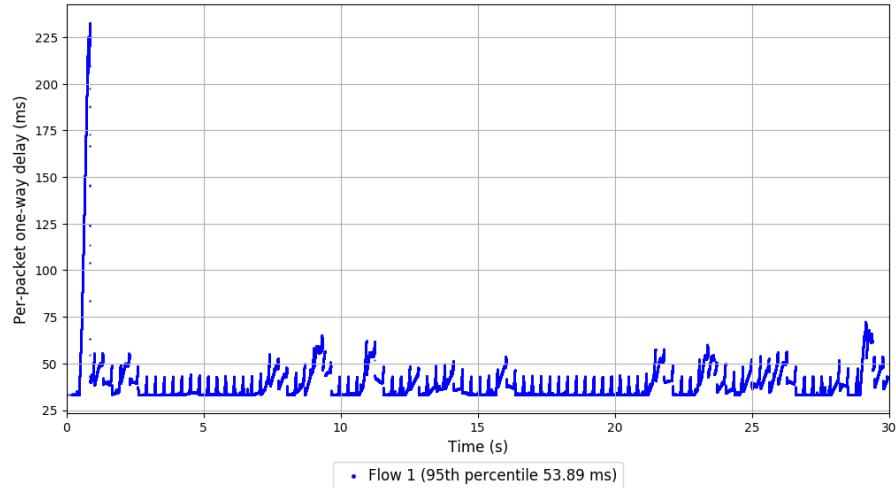
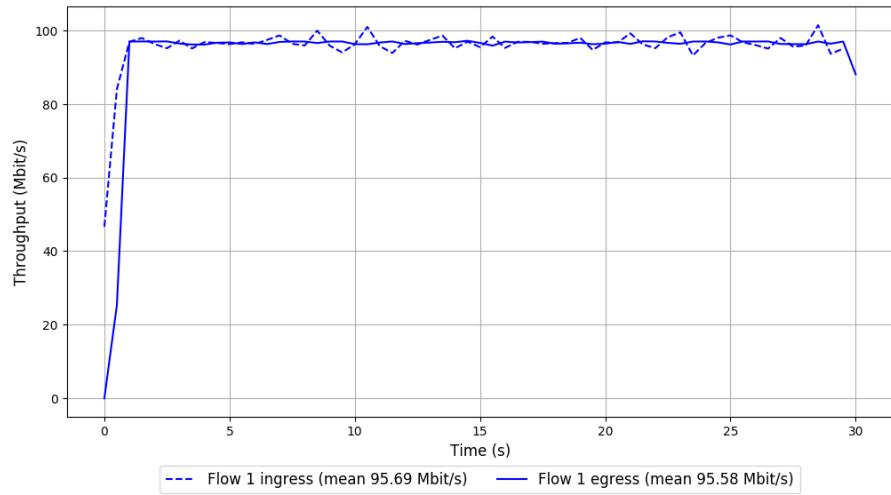


Run 5: Statistics of FillP

```
Start at: 2019-01-19 07:19:39
End at: 2019-01-19 07:20:09
Local clock offset: 0.206 ms
Remote clock offset: 0.631 ms

# Below is generated by plot.py at 2019-01-19 07:43:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 53.888 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 53.888 ms
Loss rate: 0.33%
```

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

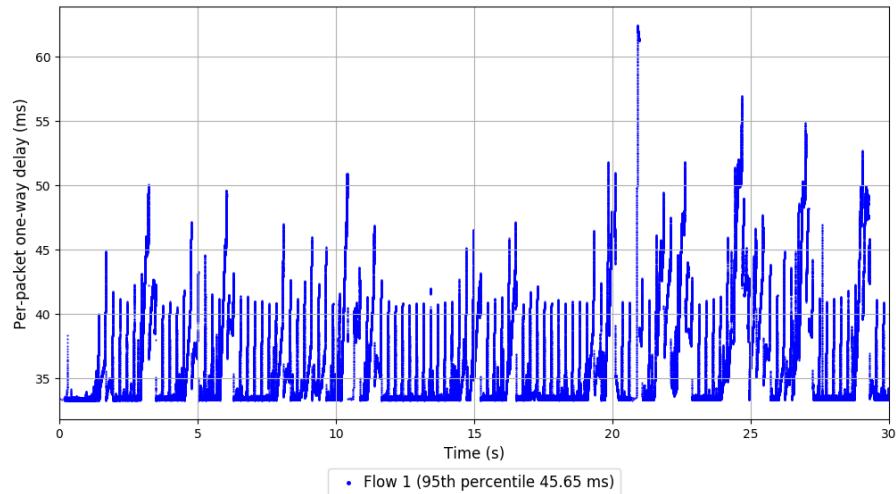
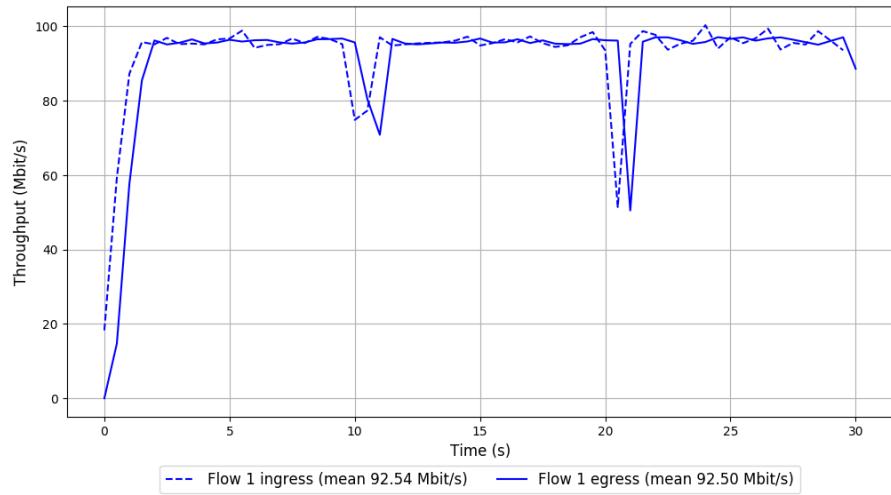


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-19 05:34:35
End at: 2019-01-19 05:35:05
Local clock offset: 0.069 ms
Remote clock offset: -2.954 ms

# Below is generated by plot.py at 2019-01-19 07:43:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.50 Mbit/s
95th percentile per-packet one-way delay: 45.653 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 92.50 Mbit/s
95th percentile per-packet one-way delay: 45.653 ms
Loss rate: 0.25%
```

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

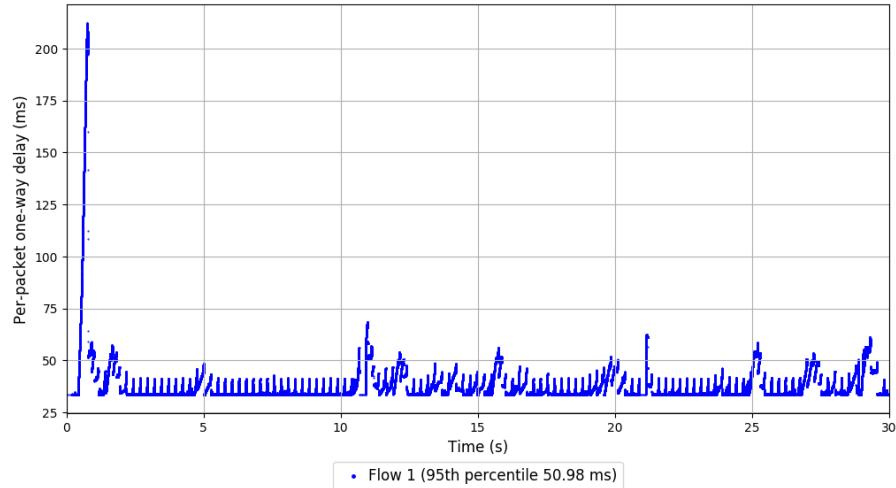
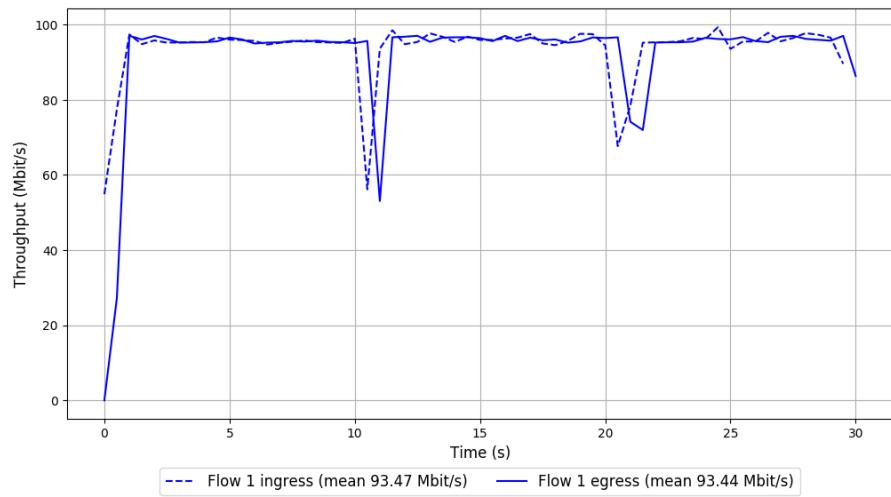


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-19 06:01:48
End at: 2019-01-19 06:02:18
Local clock offset: 0.143 ms
Remote clock offset: -1.321 ms

# Below is generated by plot.py at 2019-01-19 07:43:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.44 Mbit/s
95th percentile per-packet one-way delay: 50.984 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 93.44 Mbit/s
95th percentile per-packet one-way delay: 50.984 ms
Loss rate: 0.24%
```

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

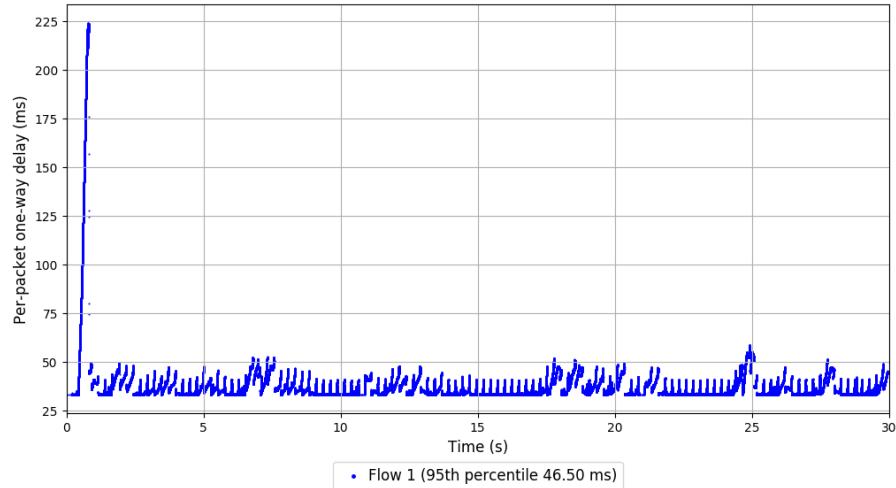
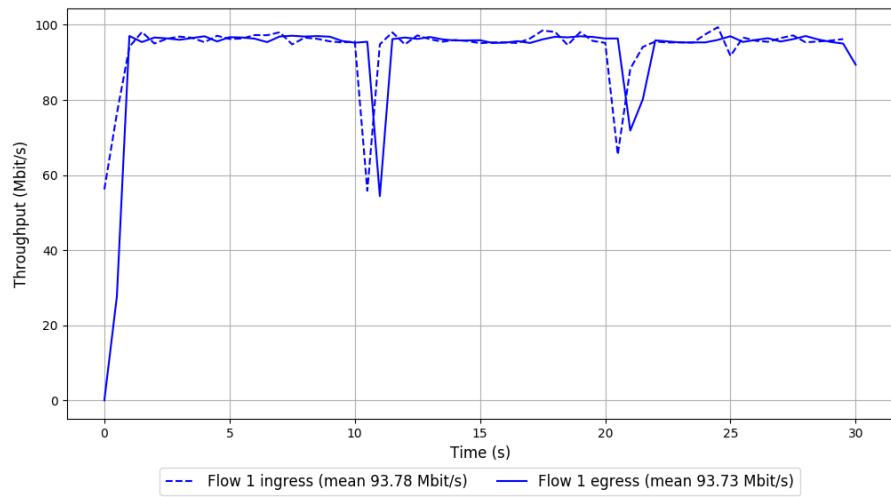


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-19 06:30:38
End at: 2019-01-19 06:31:08
Local clock offset: 0.058 ms
Remote clock offset: 0.604 ms

# Below is generated by plot.py at 2019-01-19 07:43:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 46.496 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 46.496 ms
Loss rate: 0.26%
```

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

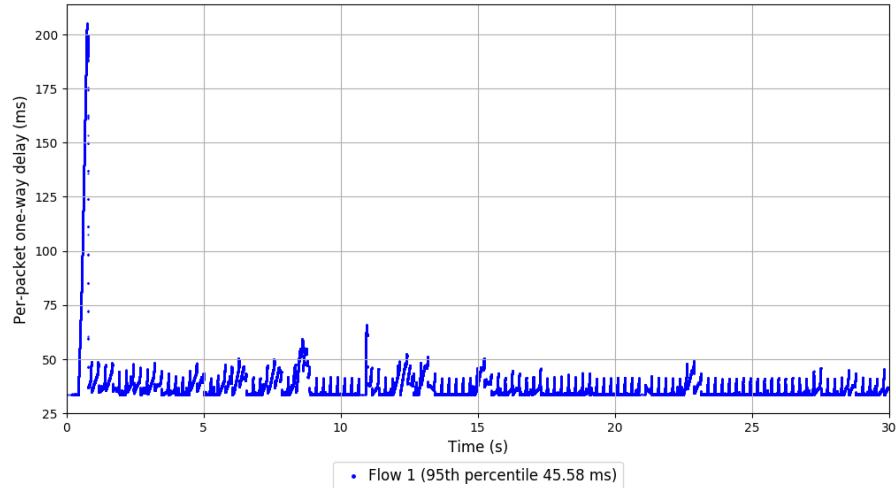
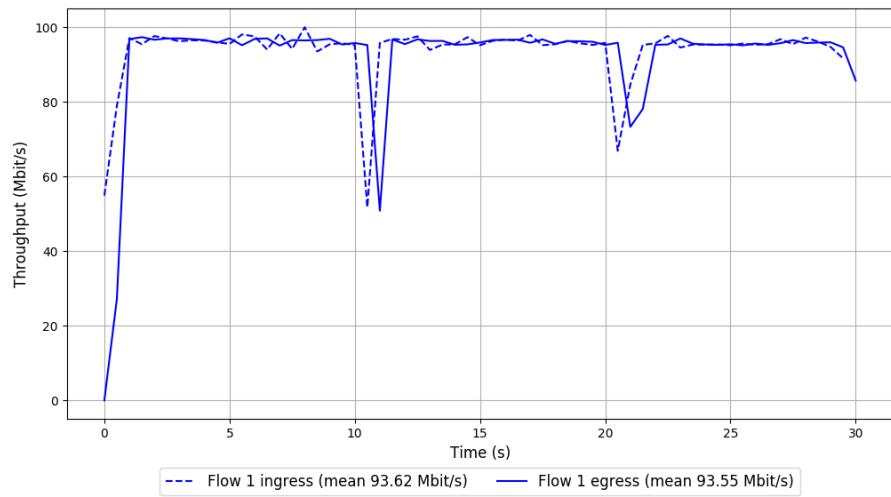


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-19 06:58:52
End at: 2019-01-19 06:59:22
Local clock offset: 0.172 ms
Remote clock offset: 0.5 ms

# Below is generated by plot.py at 2019-01-19 07:43:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.55 Mbit/s
95th percentile per-packet one-way delay: 45.583 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 93.55 Mbit/s
95th percentile per-packet one-way delay: 45.583 ms
Loss rate: 0.28%
```

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

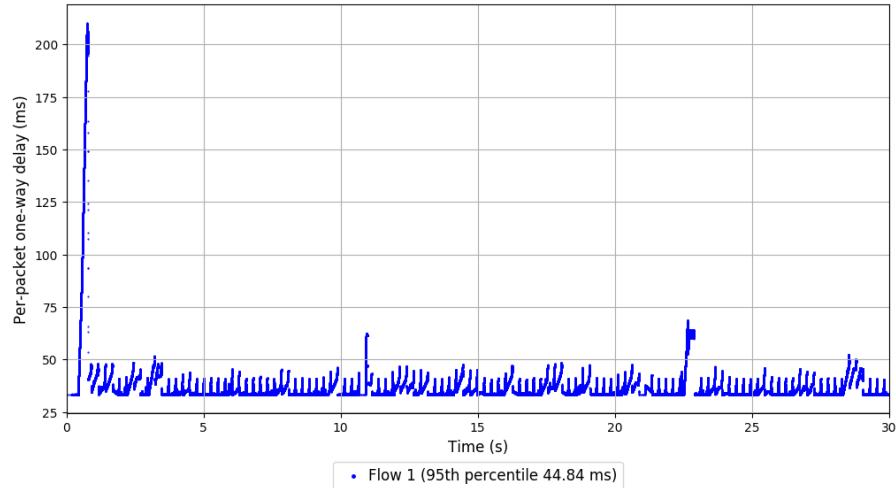
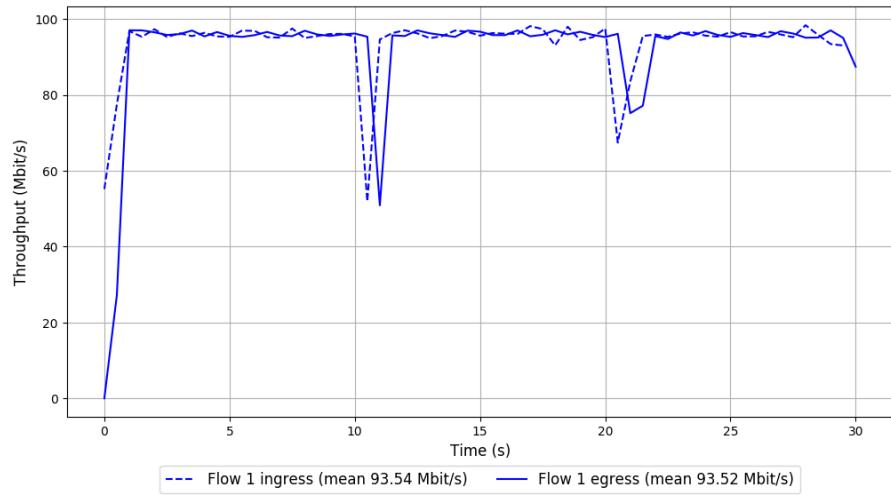


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-19 07:26:20
End at: 2019-01-19 07:26:50
Local clock offset: 0.213 ms
Remote clock offset: 0.658 ms

# Below is generated by plot.py at 2019-01-19 07:43:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.52 Mbit/s
95th percentile per-packet one-way delay: 44.842 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 93.52 Mbit/s
95th percentile per-packet one-way delay: 44.842 ms
Loss rate: 0.23%
```

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

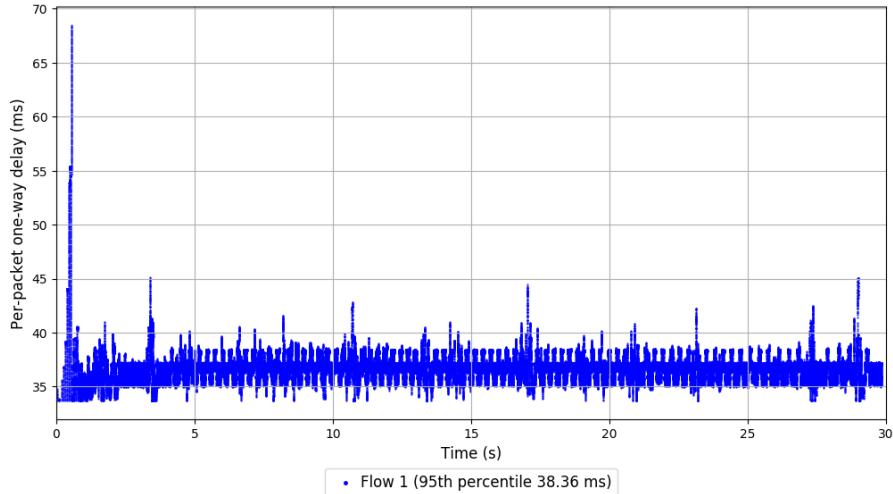
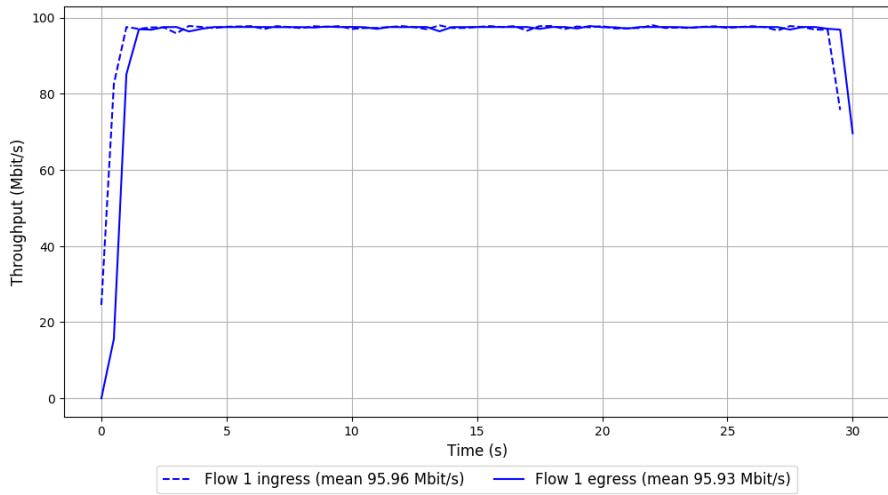


Run 1: Statistics of Indigo

```
Start at: 2019-01-19 05:44:51
End at: 2019-01-19 05:45:21
Local clock offset: 0.183 ms
Remote clock offset: -2.45 ms

# Below is generated by plot.py at 2019-01-19 07:43:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 38.361 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 38.361 ms
Loss rate: 0.24%
```

## Run 1: Report of Indigo — Data Link

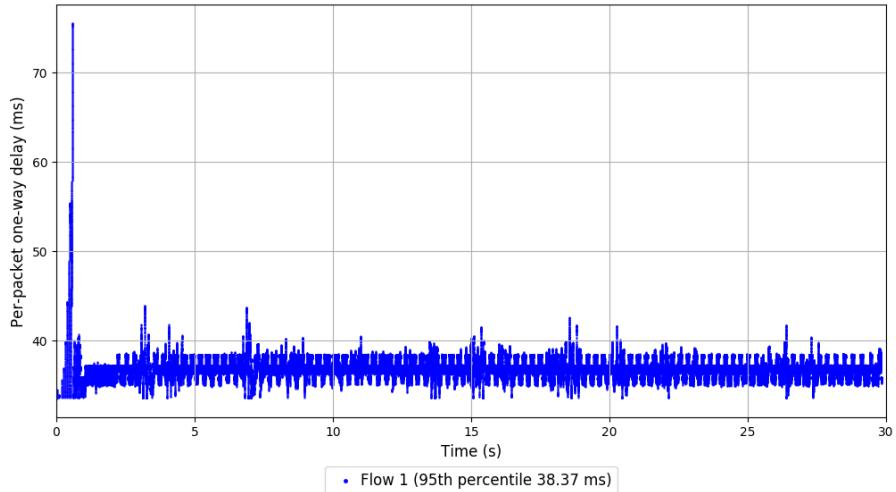
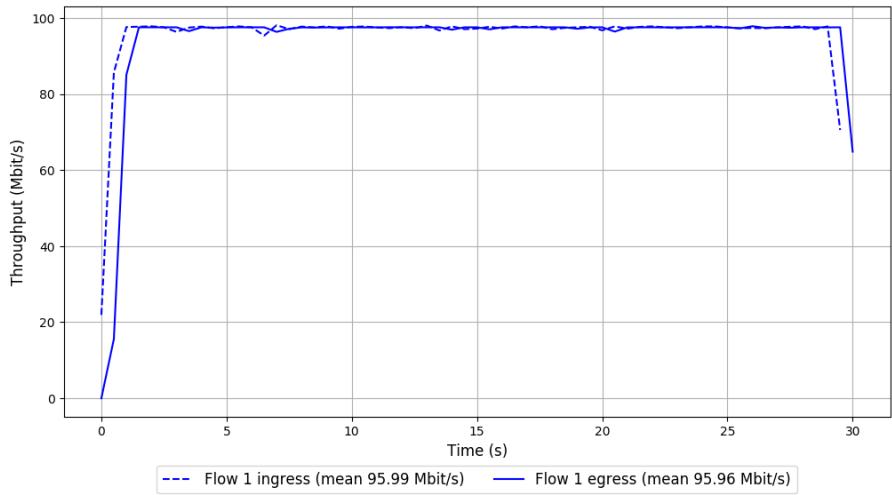


Run 2: Statistics of Indigo

```
Start at: 2019-01-19 06:12:46
End at: 2019-01-19 06:13:16
Local clock offset: 0.178 ms
Remote clock offset: -0.63 ms

# Below is generated by plot.py at 2019-01-19 07:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 38.368 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 38.368 ms
Loss rate: 0.24%
```

## Run 2: Report of Indigo — Data Link

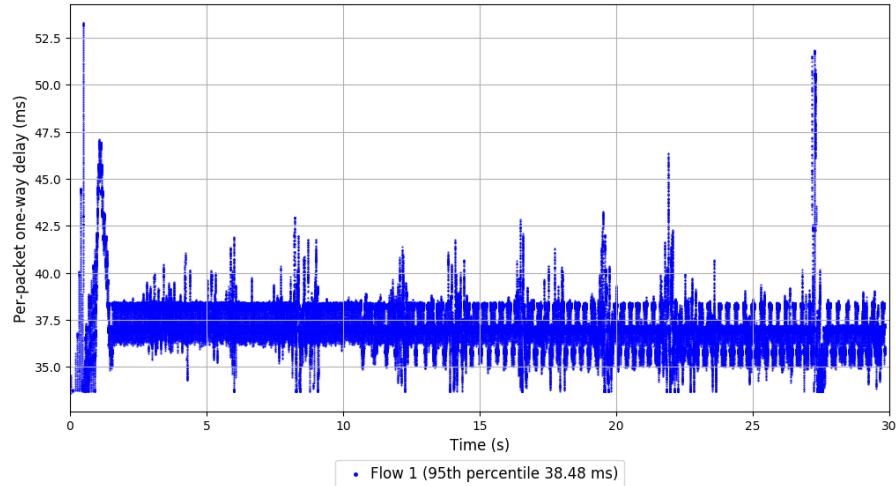
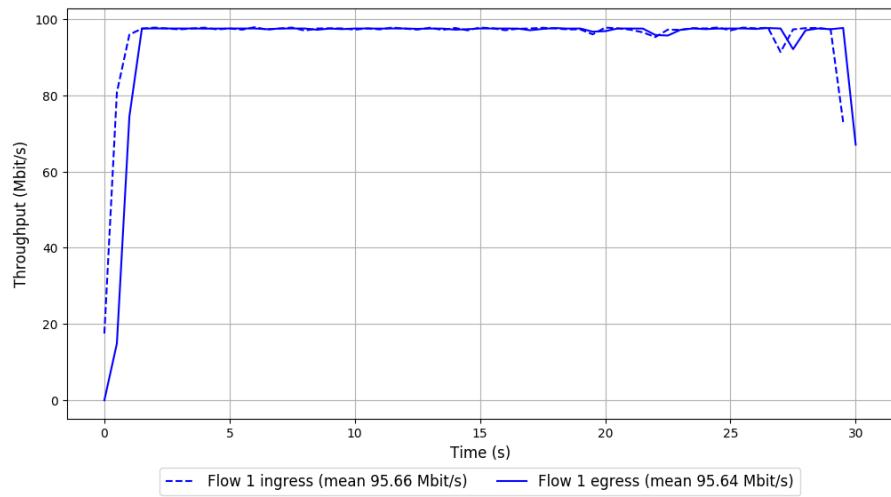


Run 3: Statistics of Indigo

```
Start at: 2019-01-19 06:41:21
End at: 2019-01-19 06:41:51
Local clock offset: 0.03 ms
Remote clock offset: 0.673 ms

# Below is generated by plot.py at 2019-01-19 07:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 38.485 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 38.485 ms
Loss rate: 0.23%
```

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

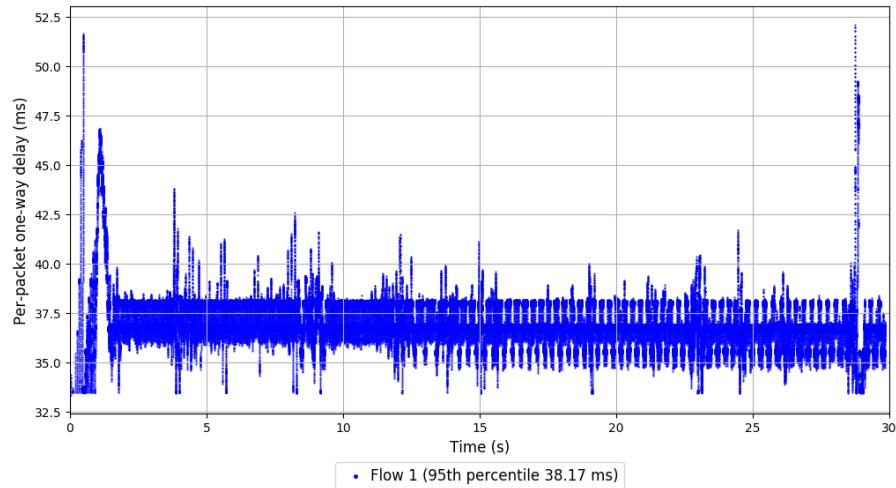
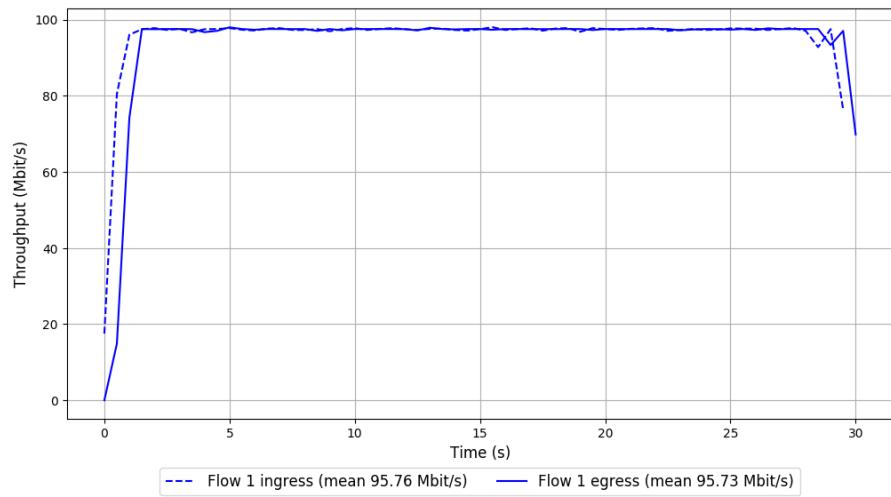


Run 4: Statistics of Indigo

```
Start at: 2019-01-19 07:09:29
End at: 2019-01-19 07:09:59
Local clock offset: 0.207 ms
Remote clock offset: 0.674 ms

# Below is generated by plot.py at 2019-01-19 07:44:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.73 Mbit/s
95th percentile per-packet one-way delay: 38.168 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.73 Mbit/s
95th percentile per-packet one-way delay: 38.168 ms
Loss rate: 0.24%
```

## Run 4: Report of Indigo — Data Link

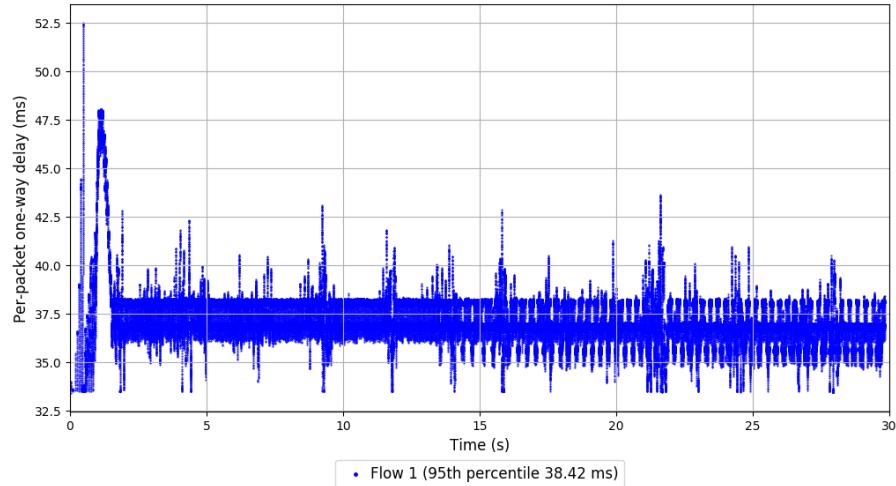
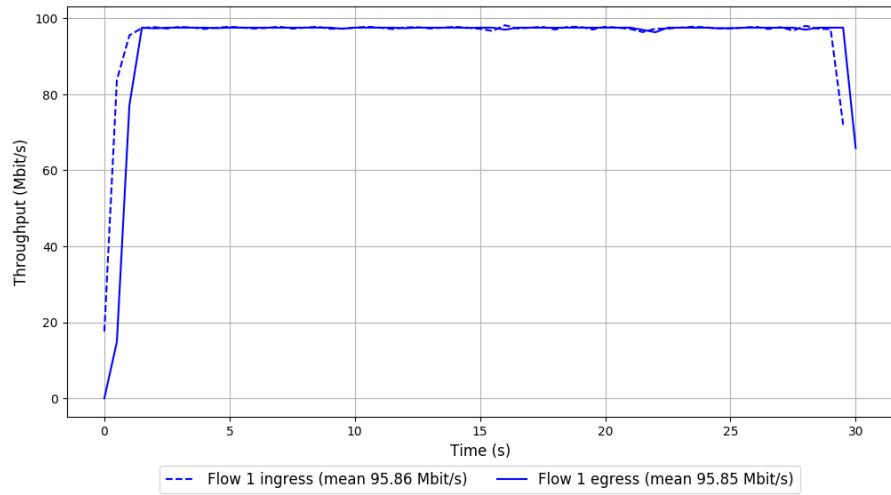


Run 5: Statistics of Indigo

```
Start at: 2019-01-19 07:36:37
End at: 2019-01-19 07:37:07
Local clock offset: 0.262 ms
Remote clock offset: 0.257 ms

# Below is generated by plot.py at 2019-01-19 07:44:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 38.425 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 38.425 ms
Loss rate: 0.23%
```

## Run 5: Report of Indigo — Data Link

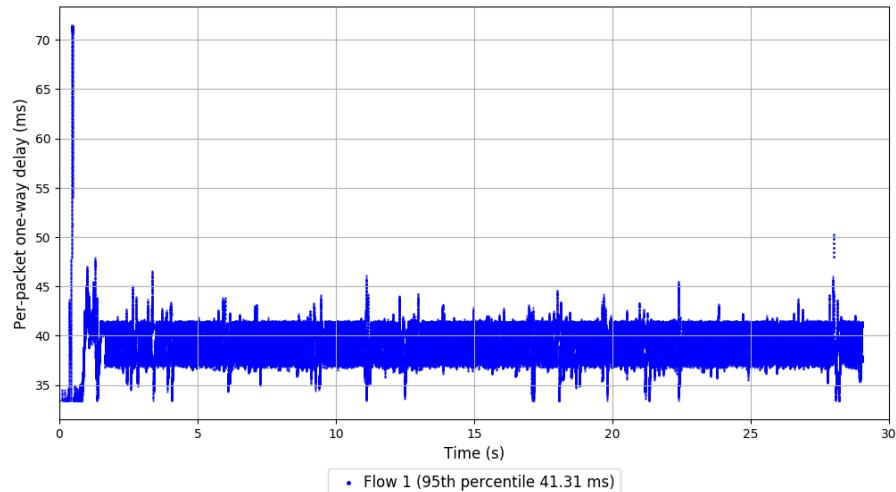
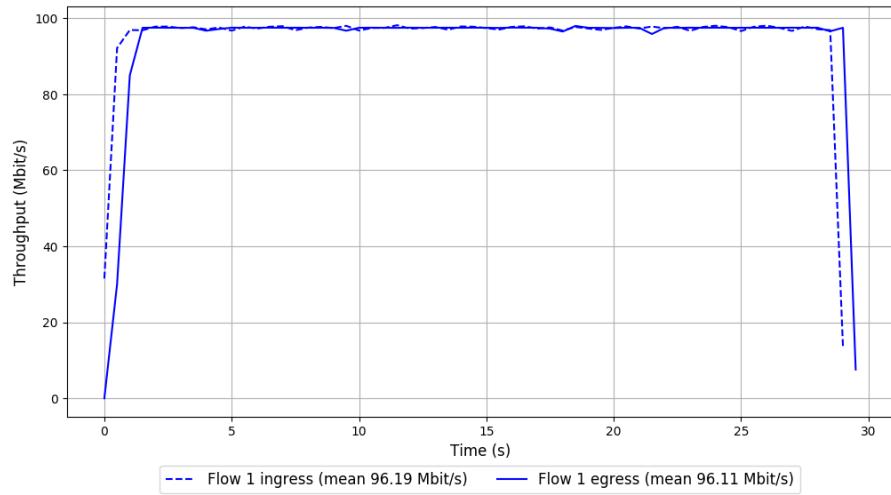


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 05:23:28
End at: 2019-01-19 05:23:58
Local clock offset: -0.304 ms
Remote clock offset: -3.66 ms

# Below is generated by plot.py at 2019-01-19 07:44:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 41.308 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 41.308 ms
Loss rate: 0.30%
```

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

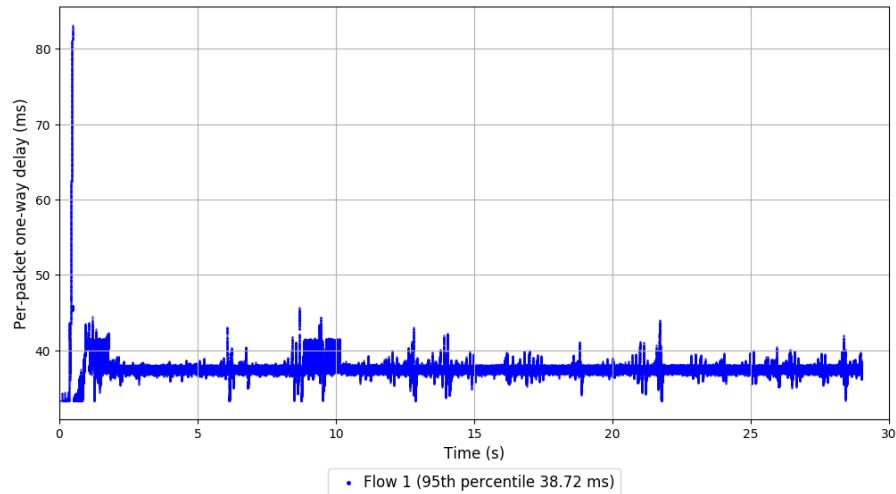
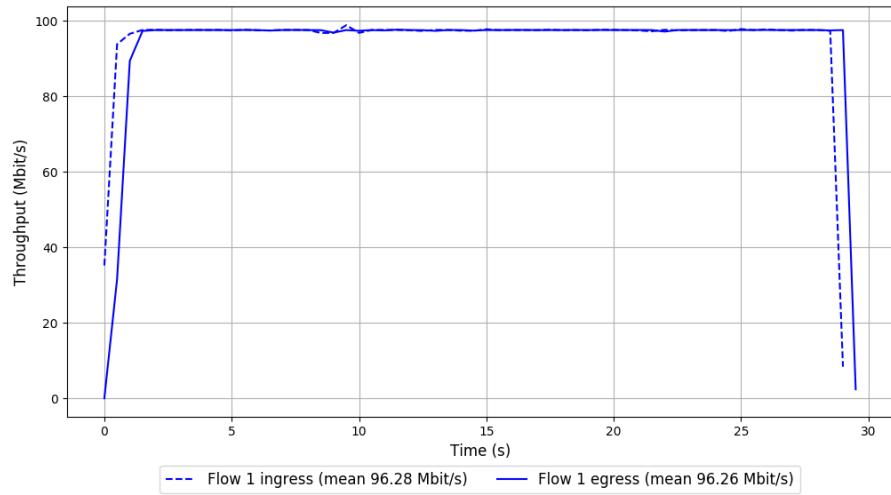


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 05:51:04
End at: 2019-01-19 05:51:34
Local clock offset: 0.149 ms
Remote clock offset: -1.783 ms

# Below is generated by plot.py at 2019-01-19 07:44:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 38.719 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 38.719 ms
Loss rate: 0.24%
```

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

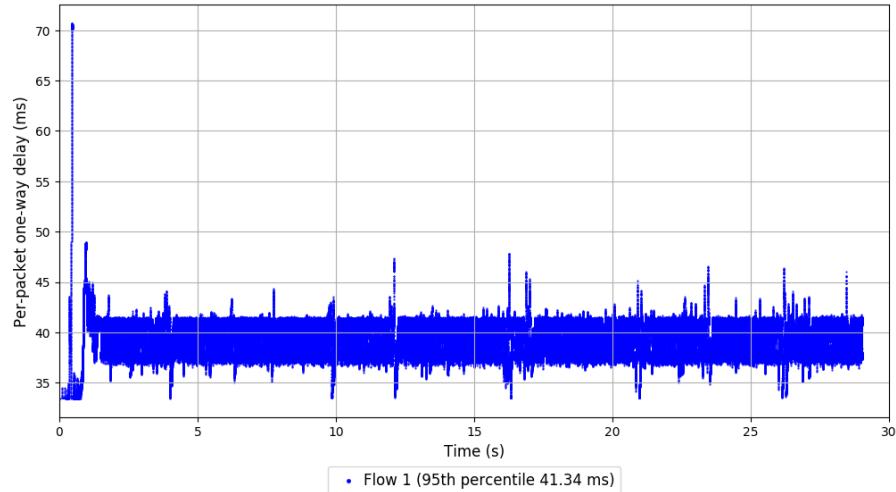
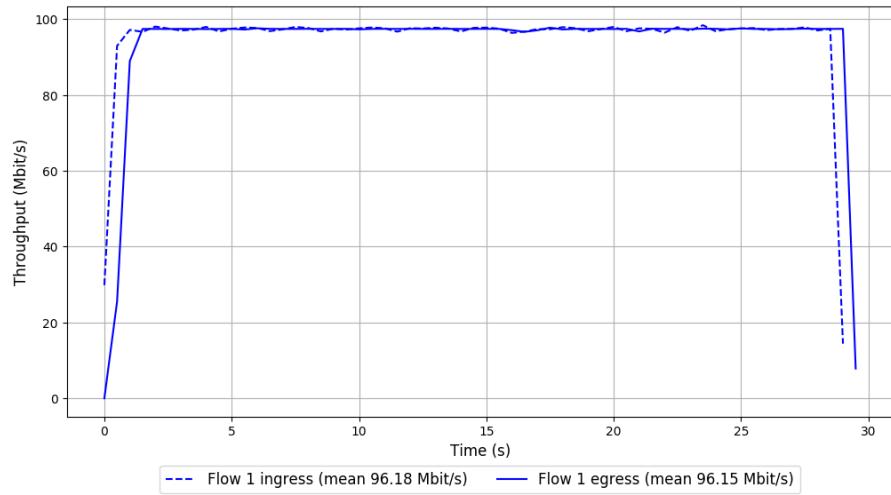


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 06:19:17
End at: 2019-01-19 06:19:47
Local clock offset: 0.136 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-01-19 07:44:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 41.343 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 41.343 ms
Loss rate: 0.25%
```

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

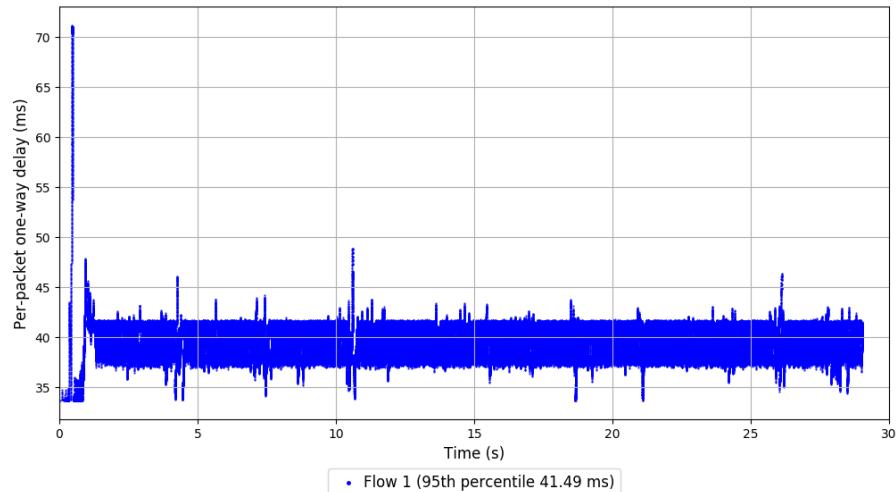
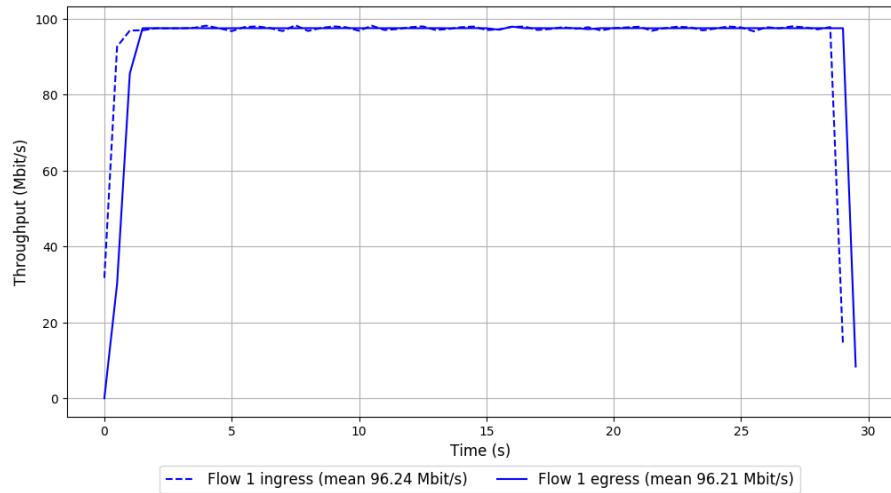


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 06:47:56
End at: 2019-01-19 06:48:26
Local clock offset: 0.047 ms
Remote clock offset: 0.602 ms

# Below is generated by plot.py at 2019-01-19 07:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 41.493 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 41.493 ms
Loss rate: 0.25%
```

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

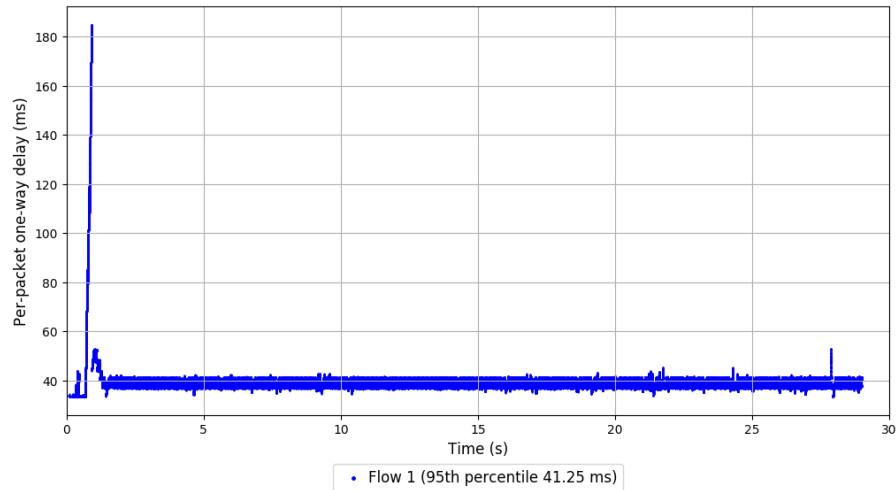
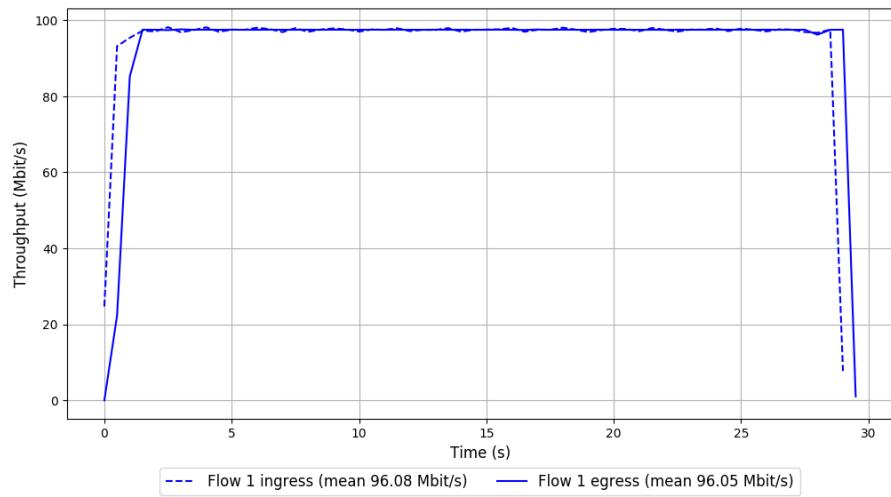


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 07:15:33
End at: 2019-01-19 07:16:03
Local clock offset: 0.218 ms
Remote clock offset: 0.641 ms

# Below is generated by plot.py at 2019-01-19 07:44:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.05 Mbit/s
95th percentile per-packet one-way delay: 41.250 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 96.05 Mbit/s
95th percentile per-packet one-way delay: 41.250 ms
Loss rate: 0.25%
```

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

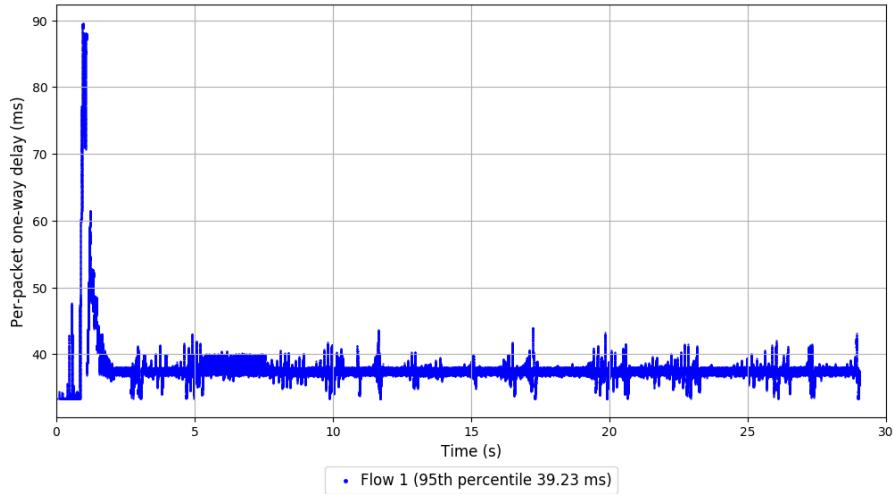
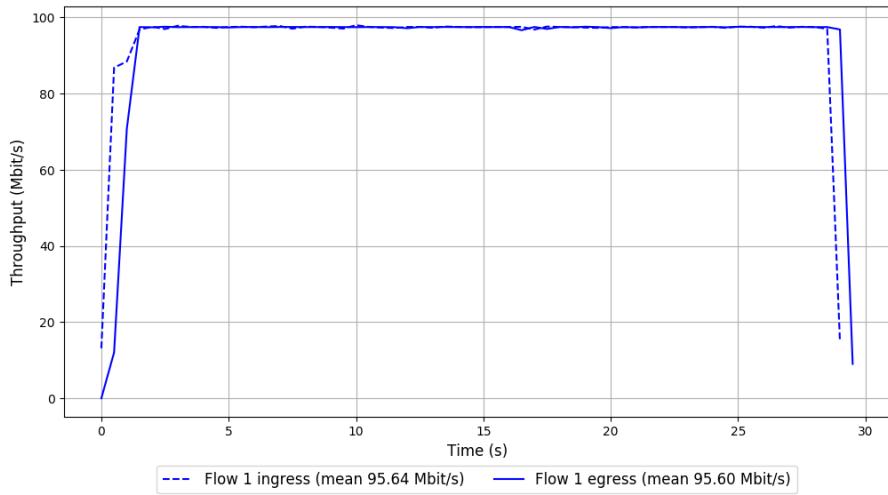


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 05:29:09
End at: 2019-01-19 05:29:39
Local clock offset: -0.059 ms
Remote clock offset: -3.304 ms

# Below is generated by plot.py at 2019-01-19 07:45:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 39.235 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 39.235 ms
Loss rate: 0.25%
```

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

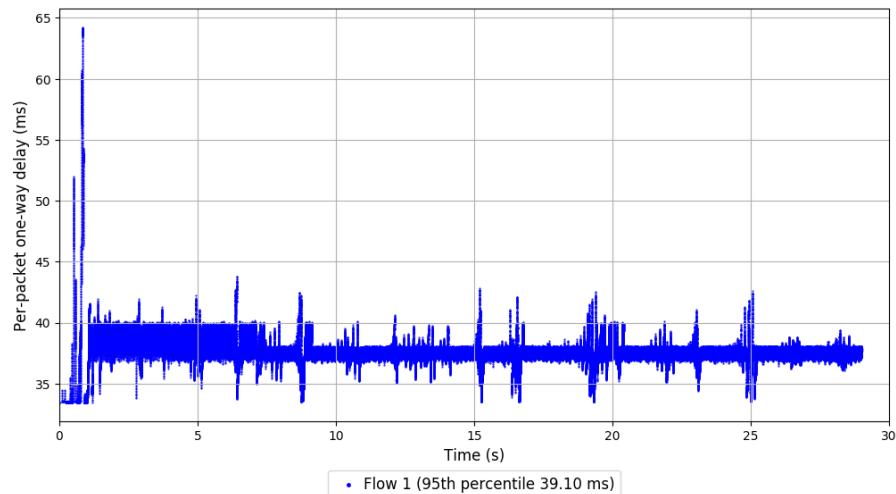
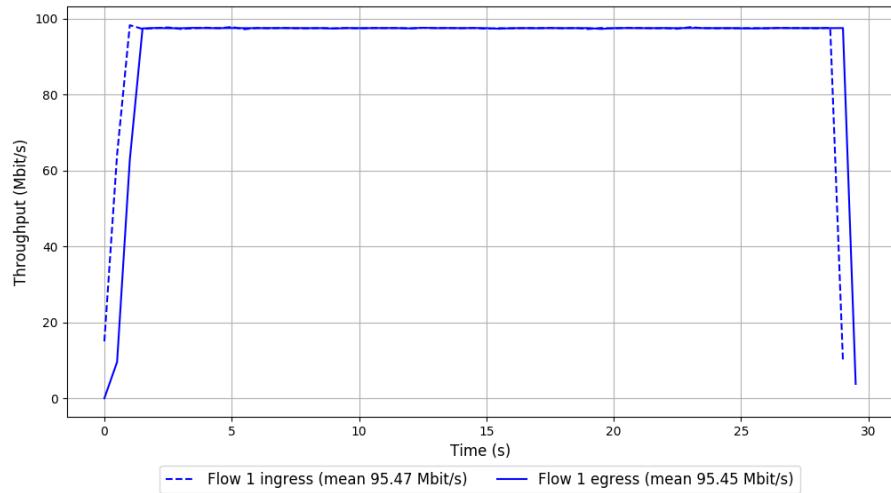


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 05:56:33
End at: 2019-01-19 05:57:03
Local clock offset: 0.153 ms
Remote clock offset: -1.507 ms

# Below is generated by plot.py at 2019-01-19 07:45:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 39.104 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 39.104 ms
Loss rate: 0.24%
```

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

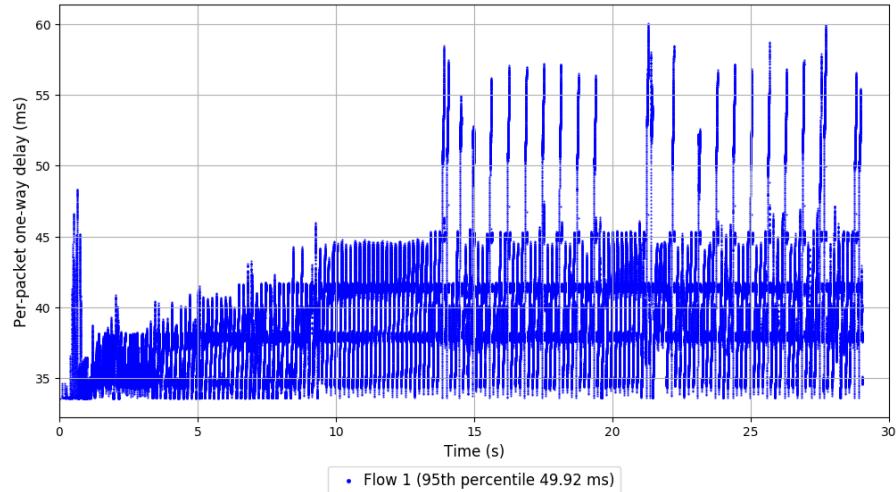
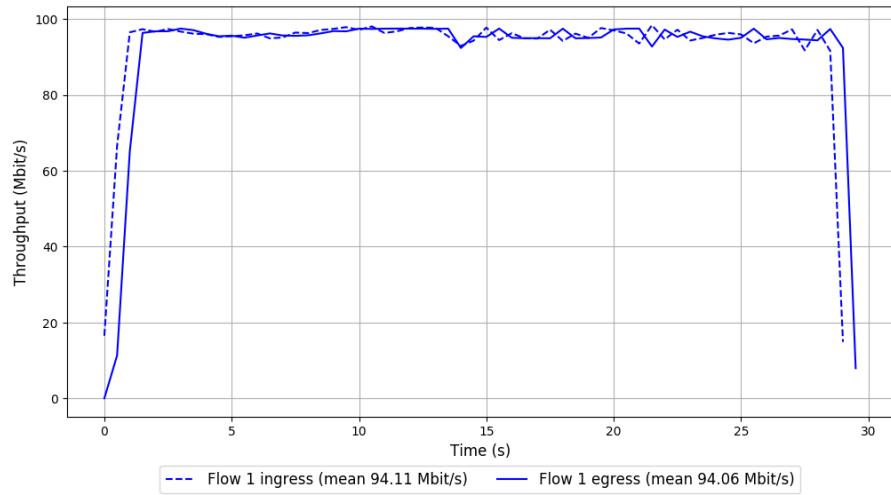


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 06:25:06
End at: 2019-01-19 06:25:36
Local clock offset: 0.091 ms
Remote clock offset: 0.071 ms

# Below is generated by plot.py at 2019-01-19 07:45:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.06 Mbit/s
95th percentile per-packet one-way delay: 49.916 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 94.06 Mbit/s
95th percentile per-packet one-way delay: 49.916 ms
Loss rate: 0.27%
```

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

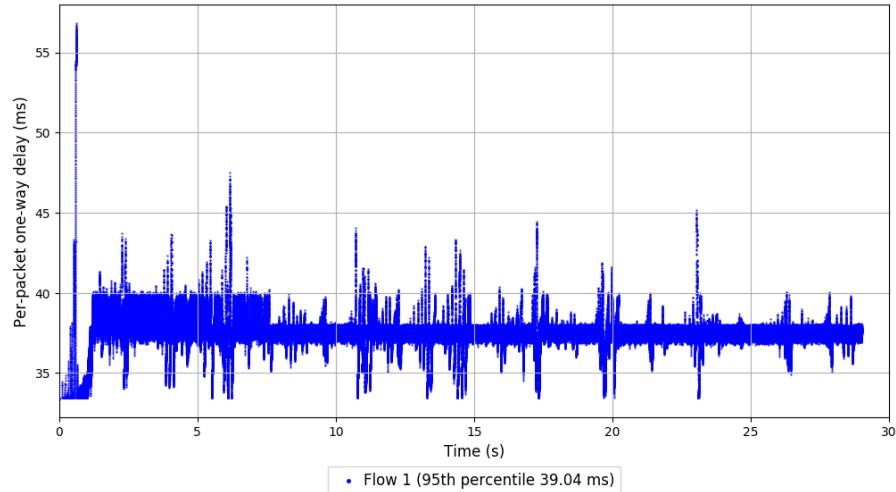
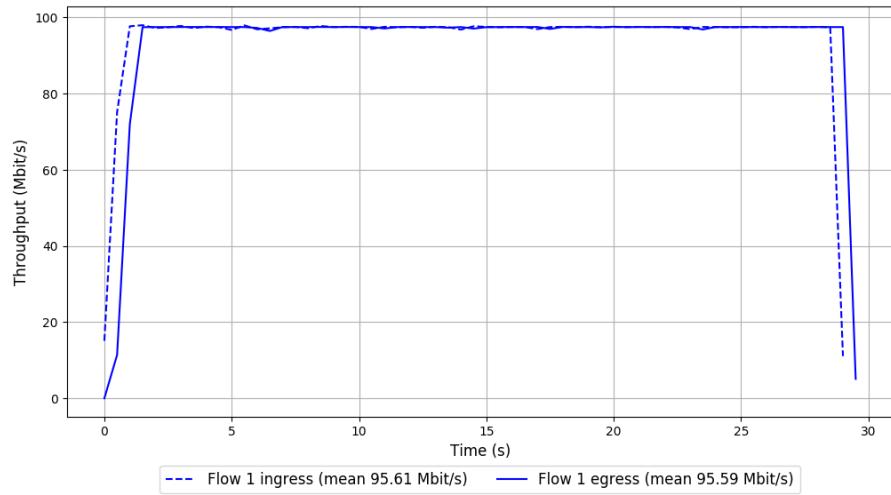


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 06:53:20
End at: 2019-01-19 06:53:50
Local clock offset: 0.118 ms
Remote clock offset: 0.821 ms

# Below is generated by plot.py at 2019-01-19 07:45:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 39.038 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 39.038 ms
Loss rate: 0.24%
```

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

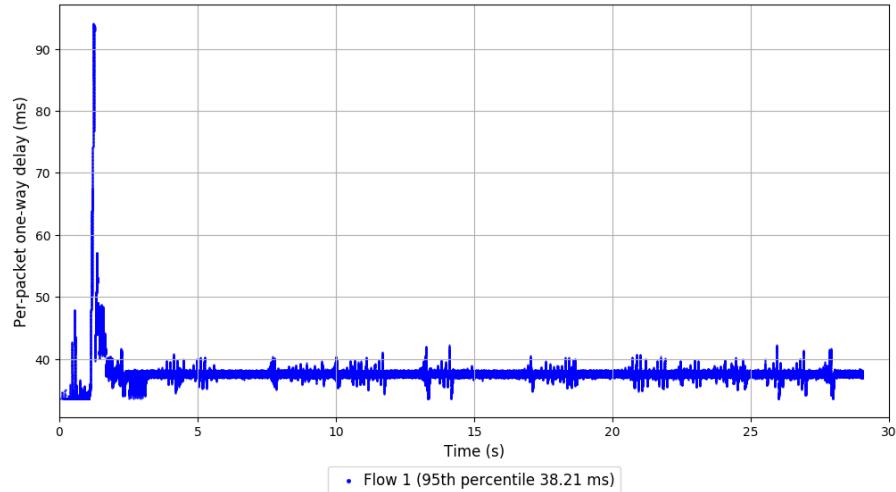
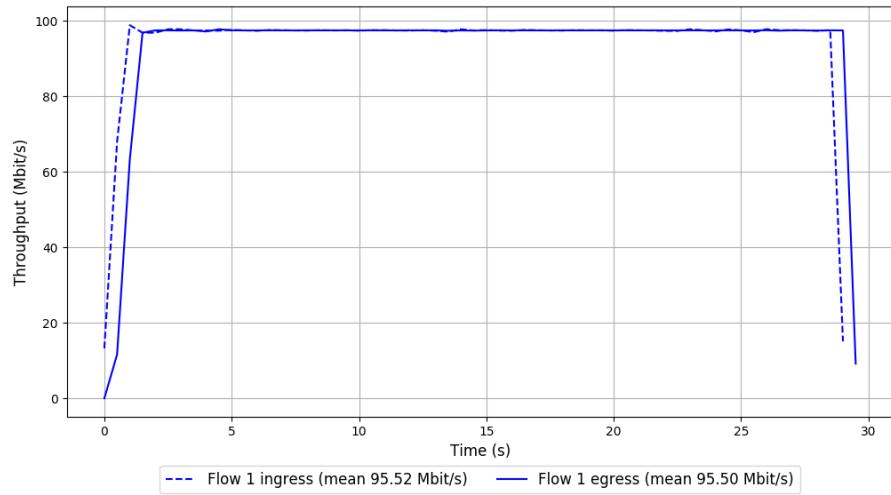


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 07:20:58
End at: 2019-01-19 07:21:28
Local clock offset: 0.206 ms
Remote clock offset: 0.496 ms

# Below is generated by plot.py at 2019-01-19 07:45:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 38.212 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 38.212 ms
Loss rate: 0.24%
```

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

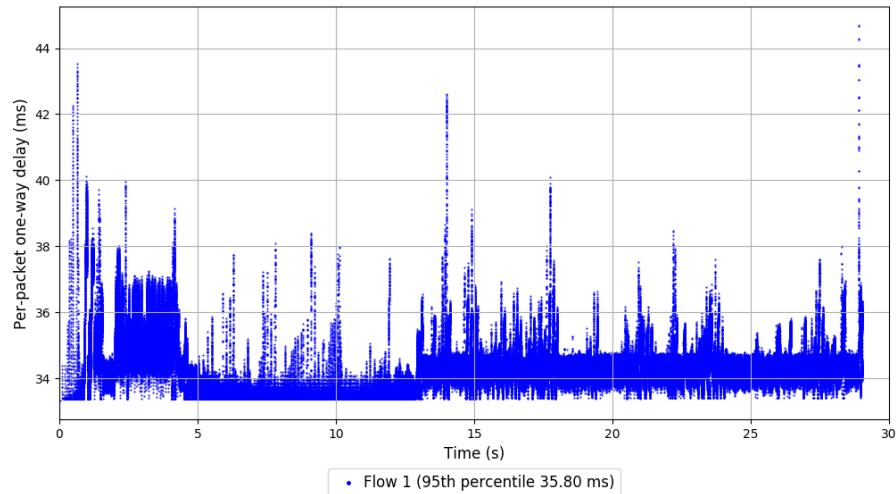
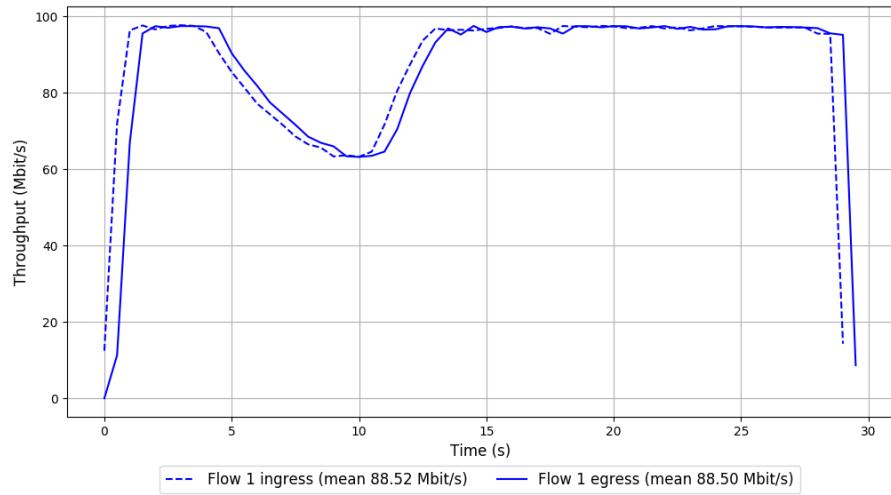


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 05:35:49
End at: 2019-01-19 05:36:19
Local clock offset: 0.084 ms
Remote clock offset: -2.835 ms

# Below is generated by plot.py at 2019-01-19 07:45:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.50 Mbit/s
95th percentile per-packet one-way delay: 35.799 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 88.50 Mbit/s
95th percentile per-packet one-way delay: 35.799 ms
Loss rate: 0.25%
```

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

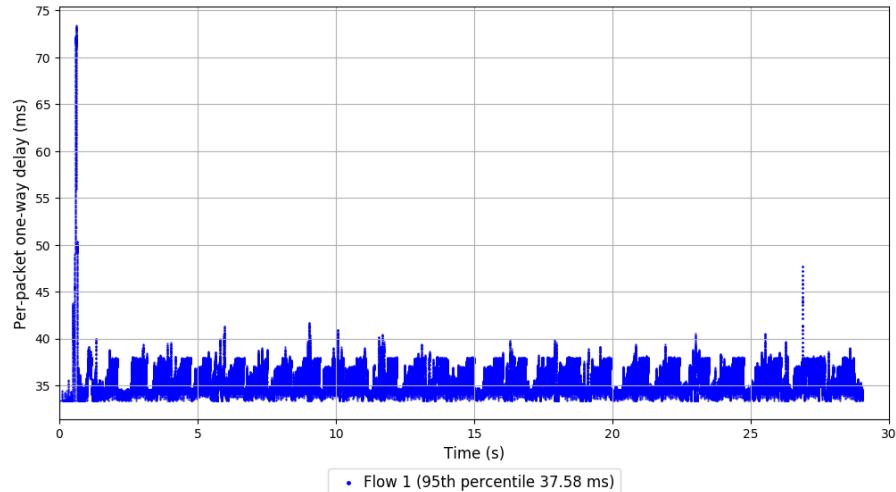
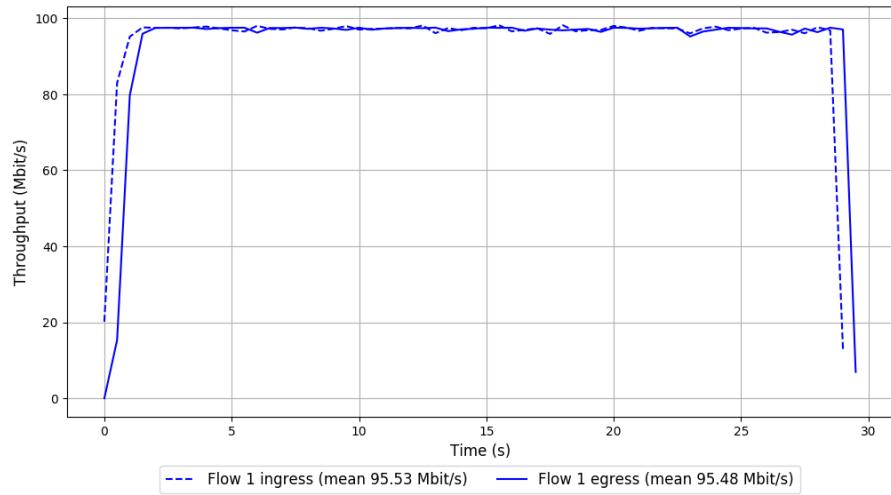


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 06:03:05
End at: 2019-01-19 06:03:35
Local clock offset: 0.153 ms
Remote clock offset: -1.044 ms

# Below is generated by plot.py at 2019-01-19 07:45:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 37.581 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 37.581 ms
Loss rate: 0.27%
```

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

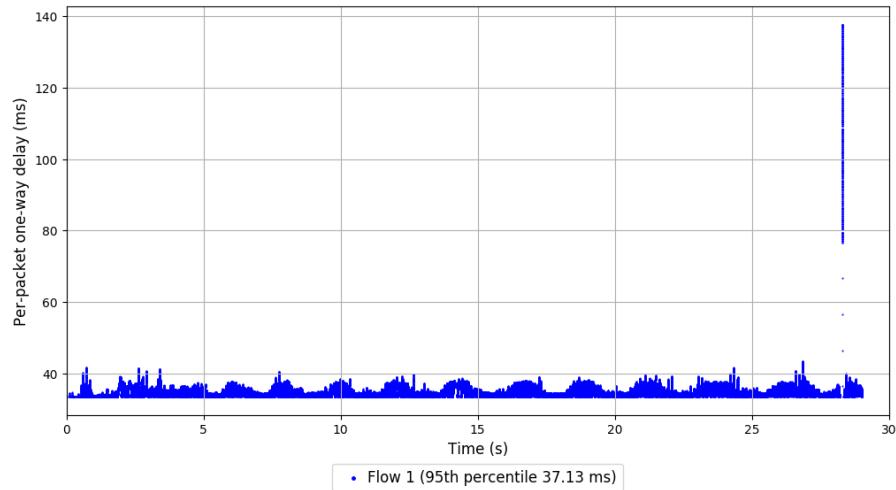
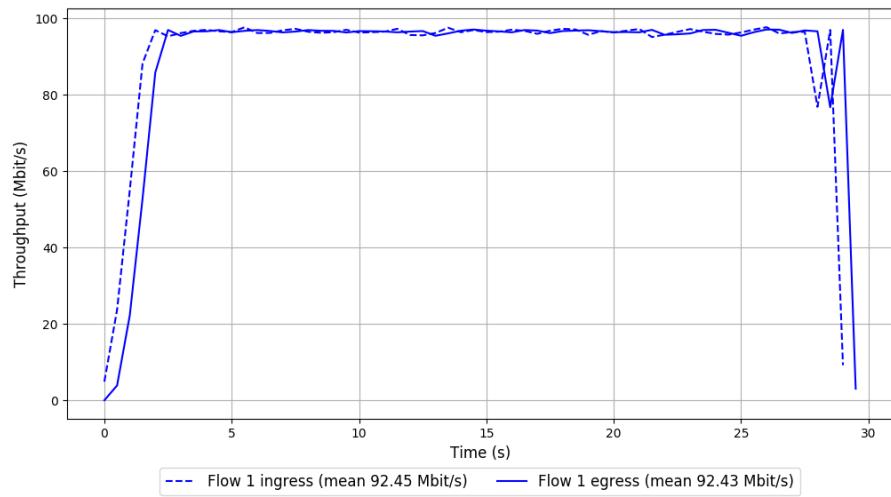


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 06:32:00
End at: 2019-01-19 06:32:30
Local clock offset: 0.047 ms
Remote clock offset: 0.632 ms

# Below is generated by plot.py at 2019-01-19 07:46:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 37.131 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 37.131 ms
Loss rate: 0.24%
```

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

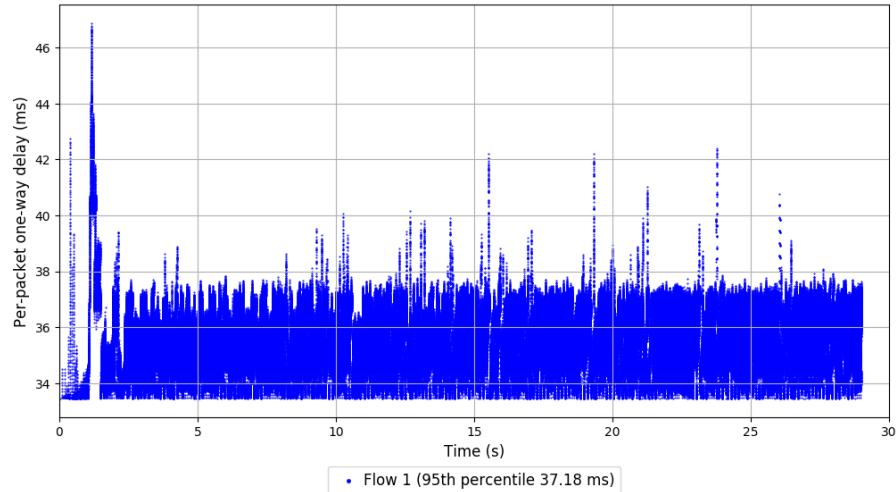
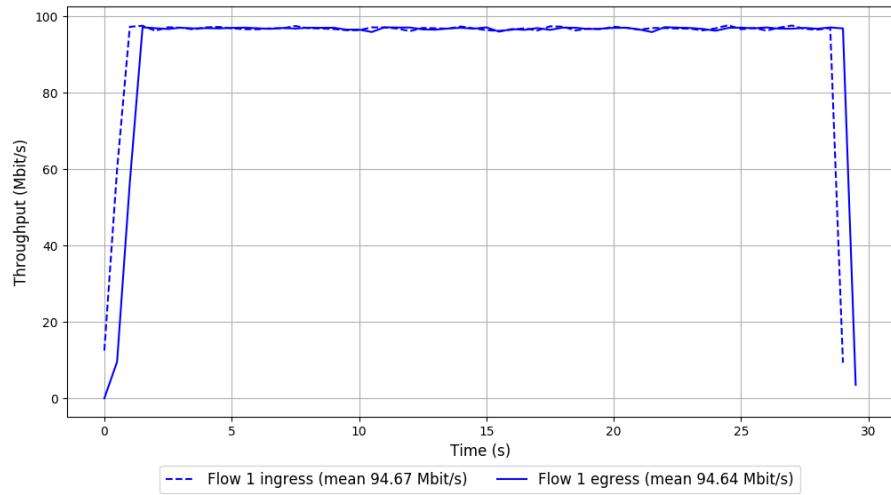


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 07:00:12
End at: 2019-01-19 07:00:42
Local clock offset: 0.179 ms
Remote clock offset: 0.696 ms

# Below is generated by plot.py at 2019-01-19 07:46:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.64 Mbit/s
95th percentile per-packet one-way delay: 37.181 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 94.64 Mbit/s
95th percentile per-packet one-way delay: 37.181 ms
Loss rate: 0.25%
```

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

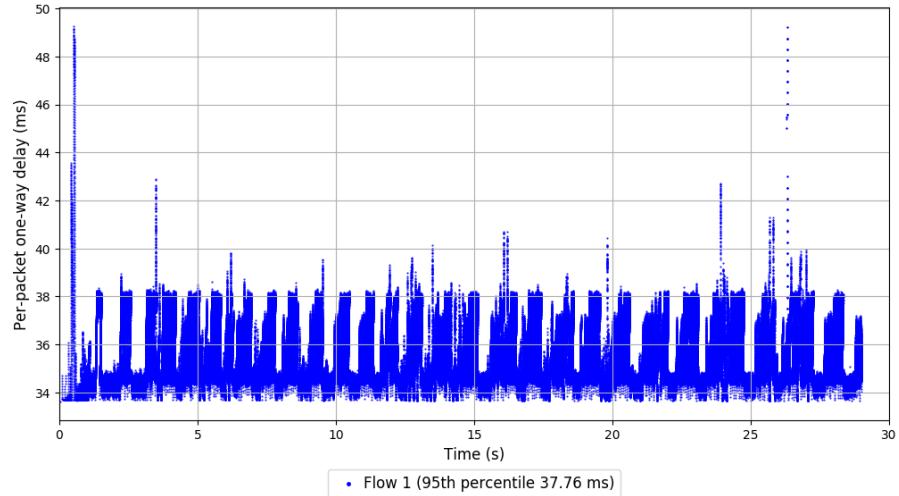
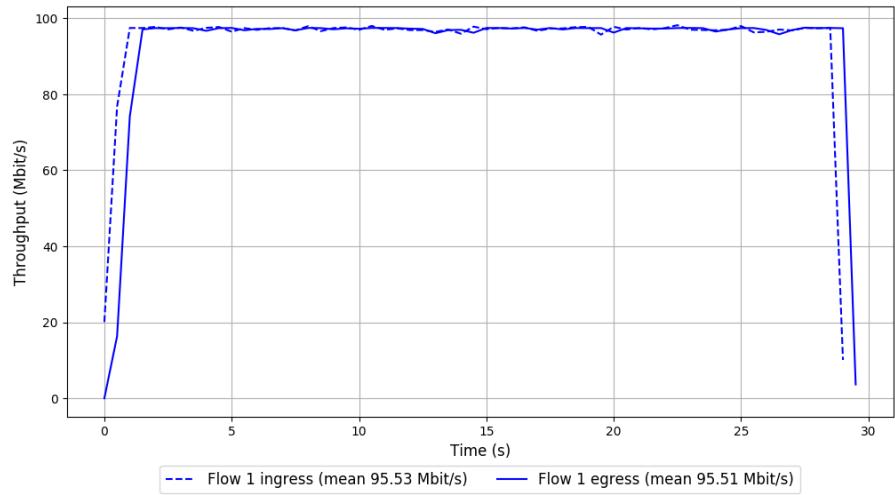


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 07:27:37
End at: 2019-01-19 07:28:07
Local clock offset: 0.228 ms
Remote clock offset: 0.444 ms

# Below is generated by plot.py at 2019-01-19 07:46:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 37.758 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 37.758 ms
Loss rate: 0.24%
```

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

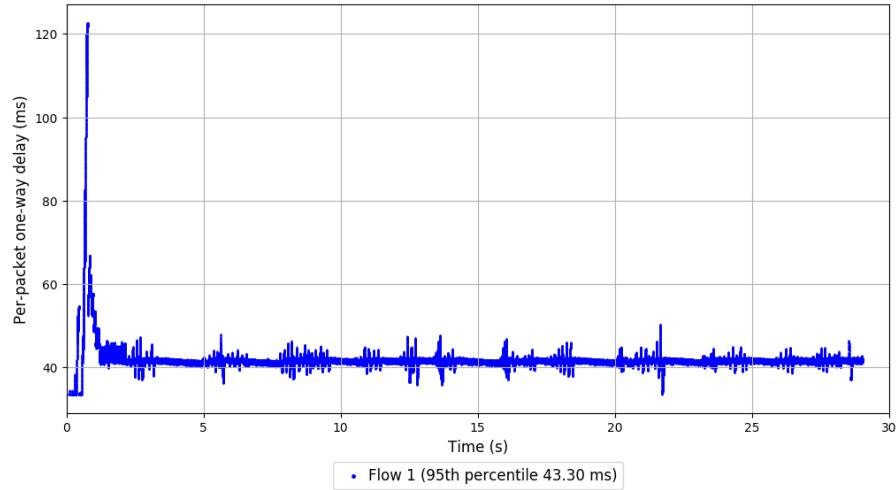
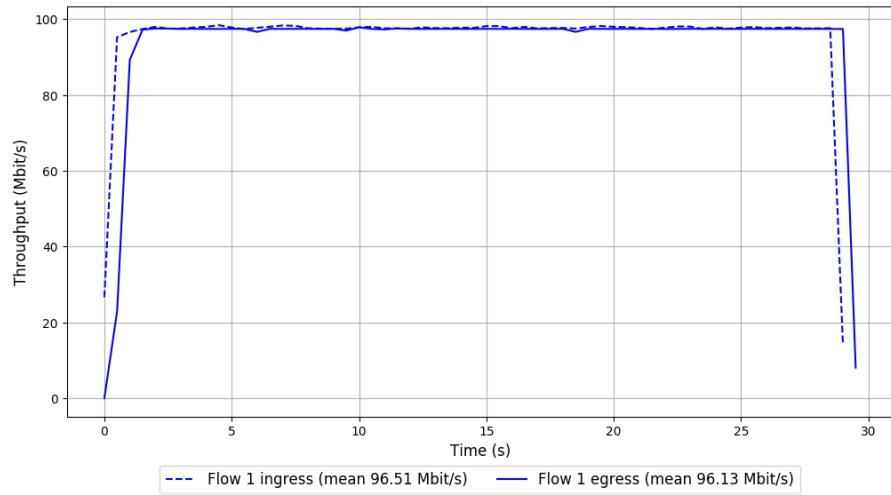


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 05:33:16
End at: 2019-01-19 05:38:46
Local clock offset: 0.054 ms
Remote clock offset: -3.068 ms

# Below is generated by plot.py at 2019-01-19 07:46:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 43.300 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 43.300 ms
Loss rate: 0.62%
```

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

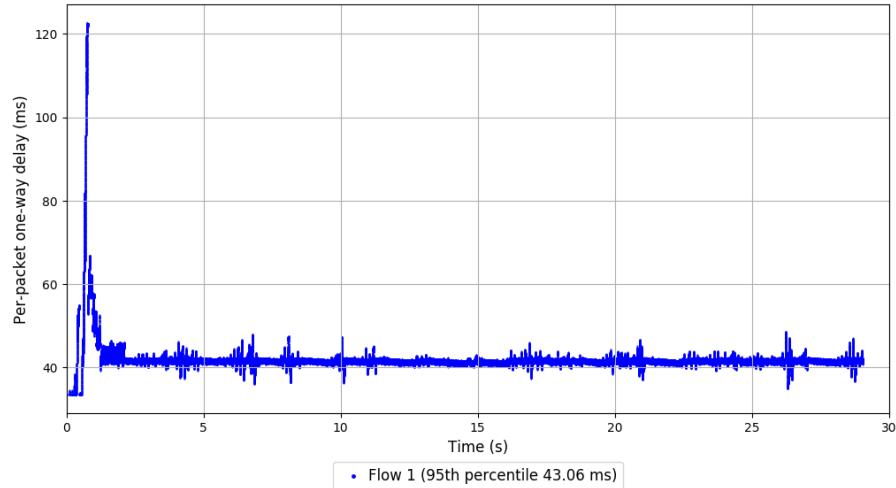
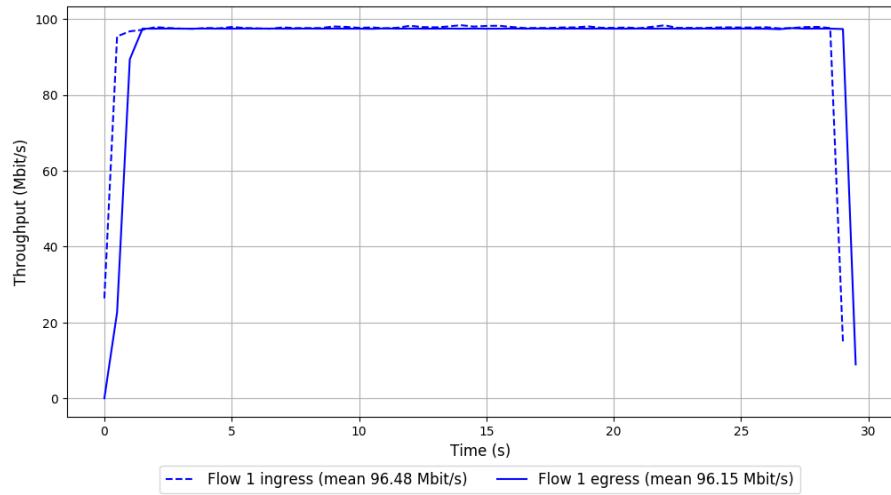


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 06:00:29
End at: 2019-01-19 06:00:59
Local clock offset: 0.157 ms
Remote clock offset: -1.226 ms

# Below is generated by plot.py at 2019-01-19 07:46:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 43.059 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 43.059 ms
Loss rate: 0.56%
```

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

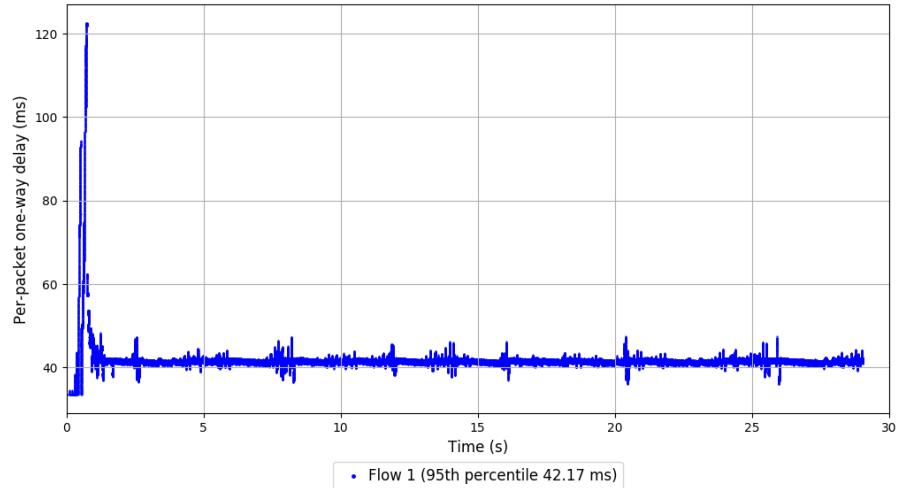
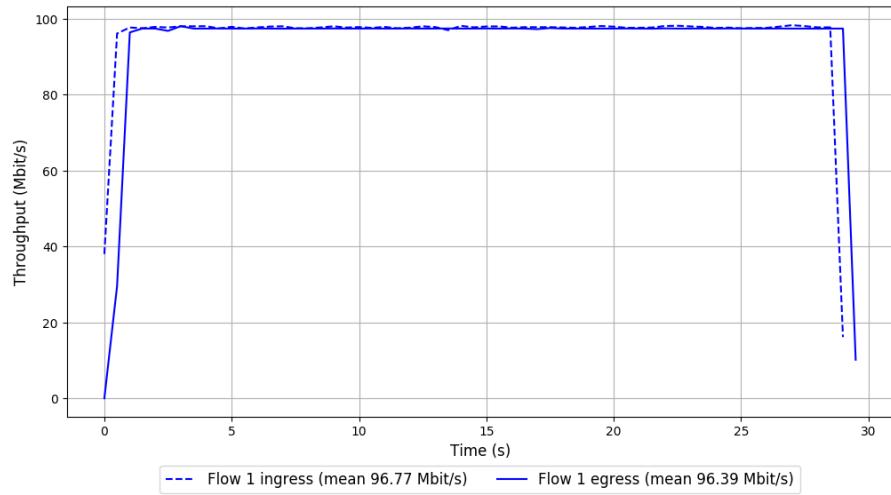


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 06:29:23
End at: 2019-01-19 06:29:53
Local clock offset: 0.069 ms
Remote clock offset: 0.538 ms

# Below is generated by plot.py at 2019-01-19 07:46:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 42.175 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 42.175 ms
Loss rate: 0.61%
```

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

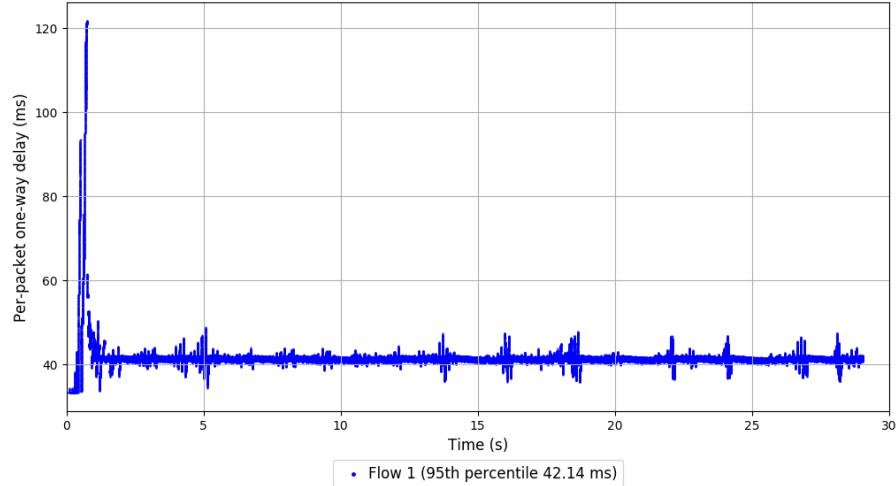
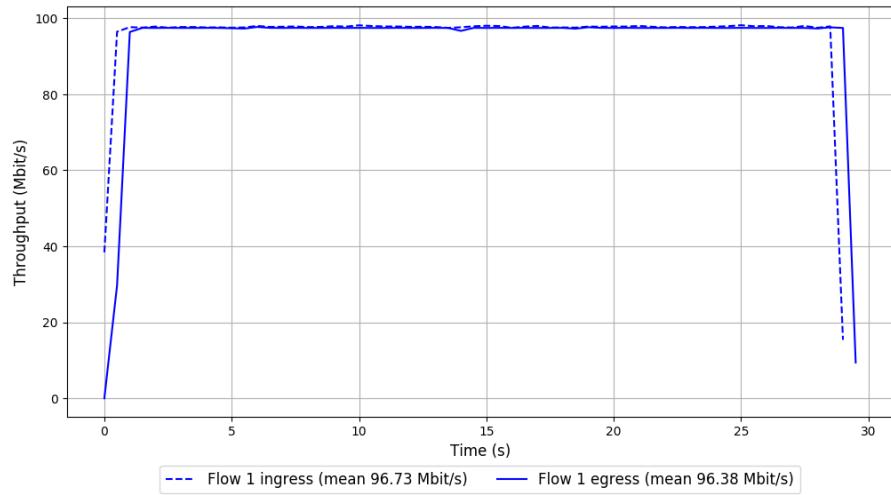


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 06:57:29
End at: 2019-01-19 06:57:59
Local clock offset: 0.158 ms
Remote clock offset: 0.819 ms

# Below is generated by plot.py at 2019-01-19 07:47:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 42.144 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 42.144 ms
Loss rate: 0.58%
```

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

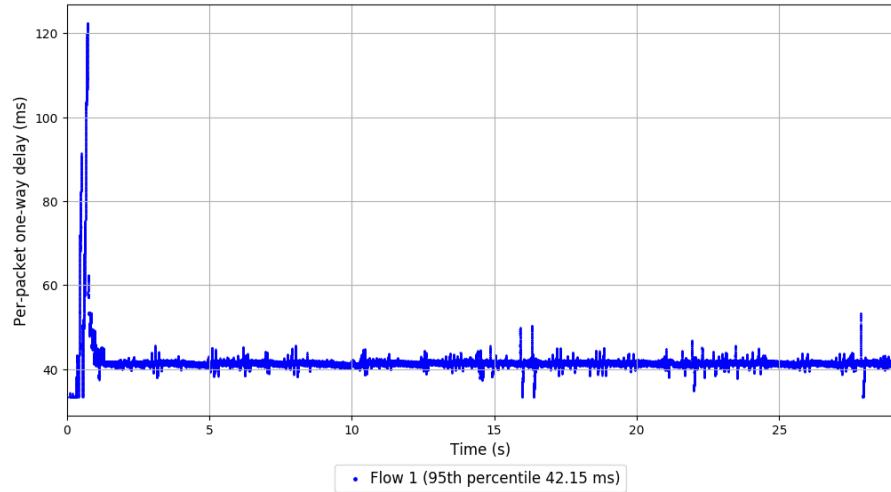
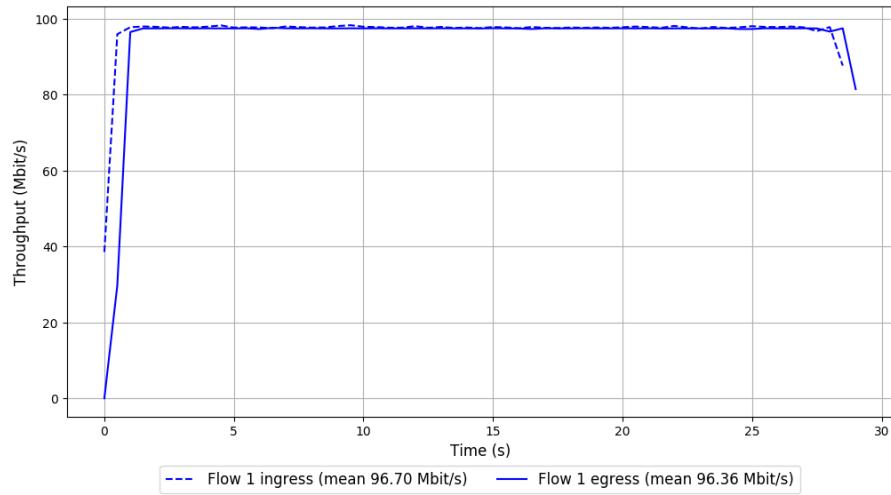


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 07:25:01
End at: 2019-01-19 07:25:31
Local clock offset: 0.203 ms
Remote clock offset: 0.657 ms

# Below is generated by plot.py at 2019-01-19 07:47:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 42.148 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 42.148 ms
Loss rate: 0.57%
```

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

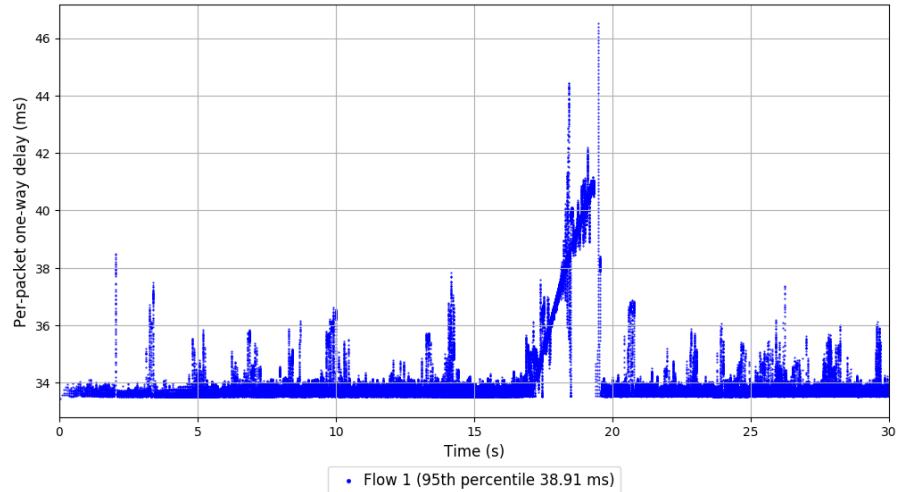
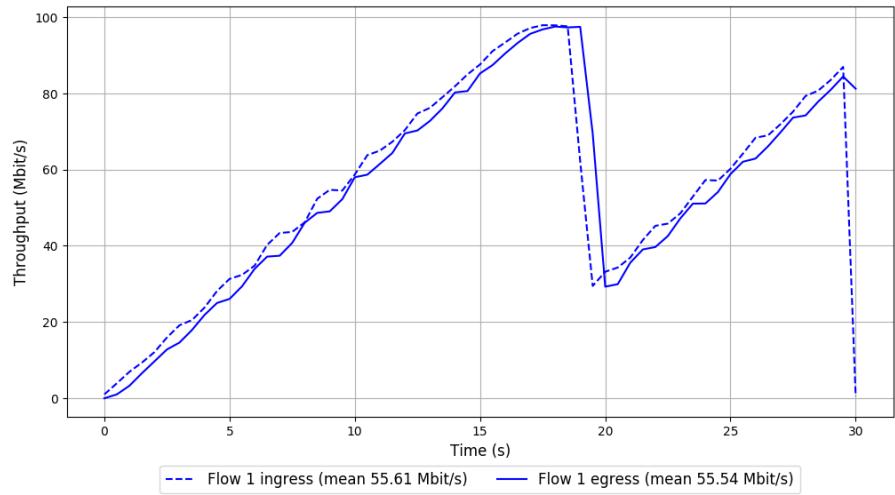


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-19 05:26:31
End at: 2019-01-19 05:27:01
Local clock offset: -0.15 ms
Remote clock offset: -3.549 ms

# Below is generated by plot.py at 2019-01-19 07:47:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.54 Mbit/s
95th percentile per-packet one-way delay: 38.907 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 55.54 Mbit/s
95th percentile per-packet one-way delay: 38.907 ms
Loss rate: 0.34%
```

Run 1: Report of LEDBAT — Data Link

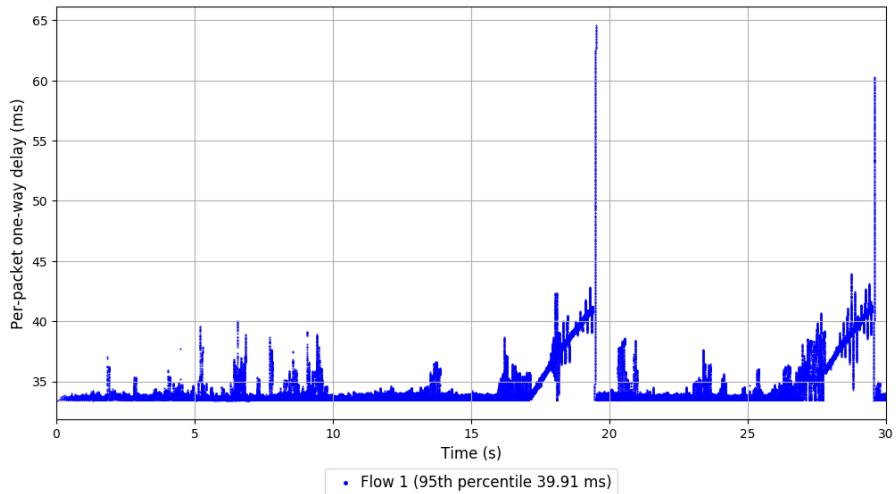
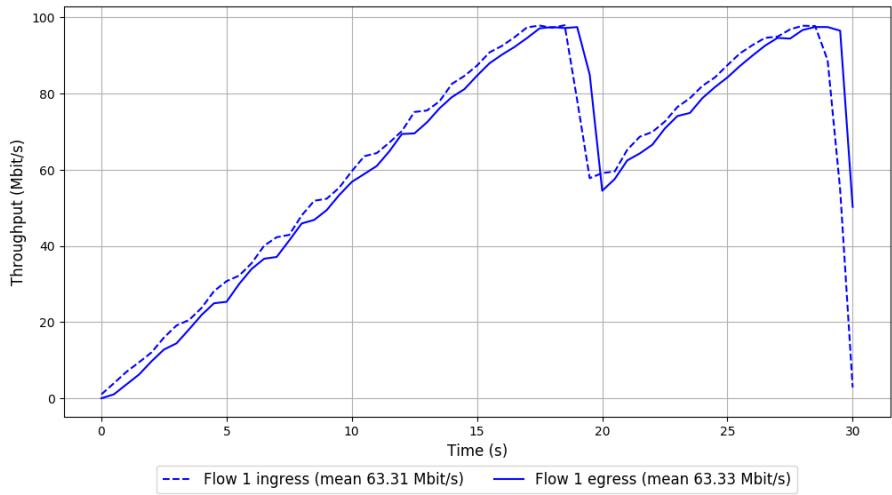


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-19 05:53:54
End at: 2019-01-19 05:54:24
Local clock offset: 0.146 ms
Remote clock offset: -1.676 ms

# Below is generated by plot.py at 2019-01-19 07:47:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.33 Mbit/s
95th percentile per-packet one-way delay: 39.913 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 63.33 Mbit/s
95th percentile per-packet one-way delay: 39.913 ms
Loss rate: 0.20%
```

## Run 2: Report of LEDBAT — Data Link

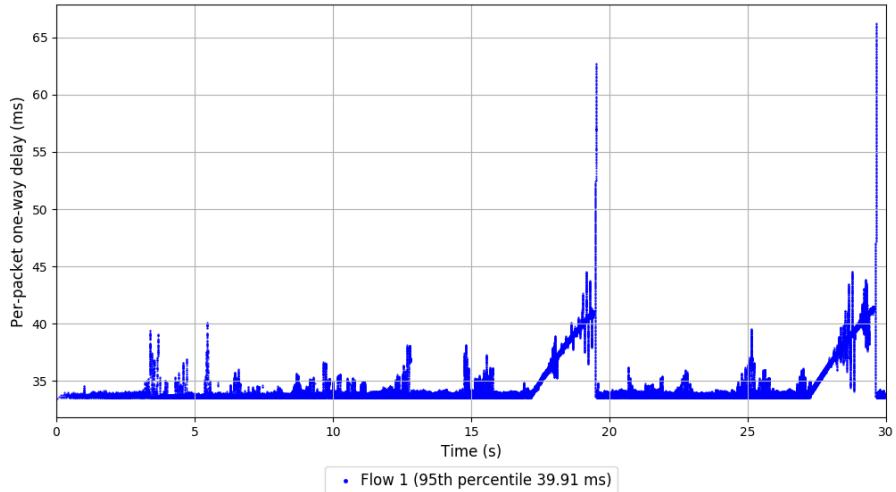
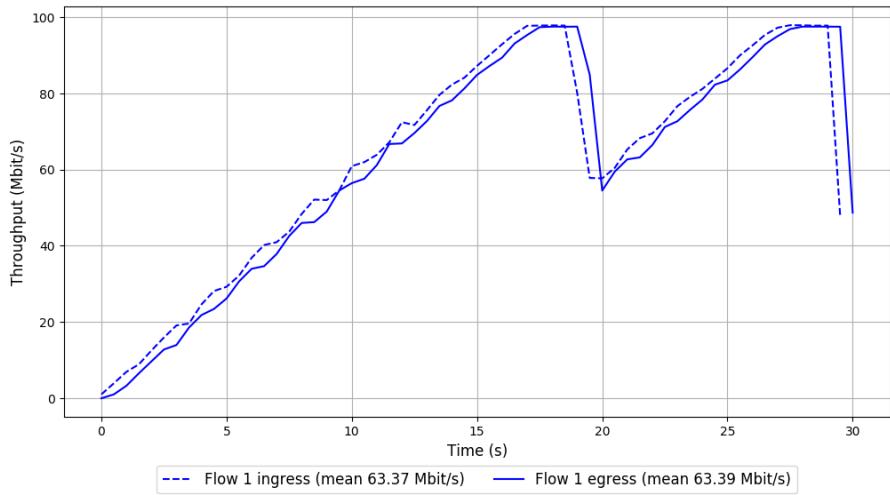


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-19 06:22:25
End at: 2019-01-19 06:22:55
Local clock offset: 0.109 ms
Remote clock offset: 0.097 ms

# Below is generated by plot.py at 2019-01-19 07:47:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.39 Mbit/s
95th percentile per-packet one-way delay: 39.905 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 63.39 Mbit/s
95th percentile per-packet one-way delay: 39.905 ms
Loss rate: 0.19%
```

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

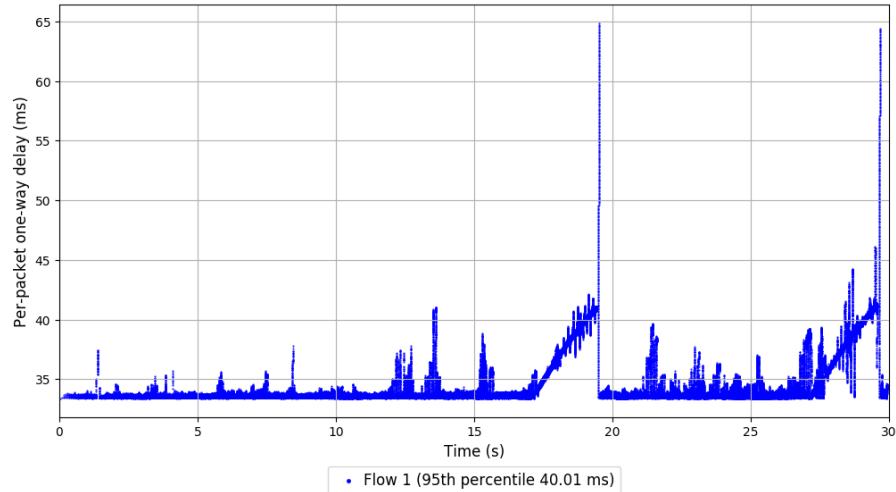
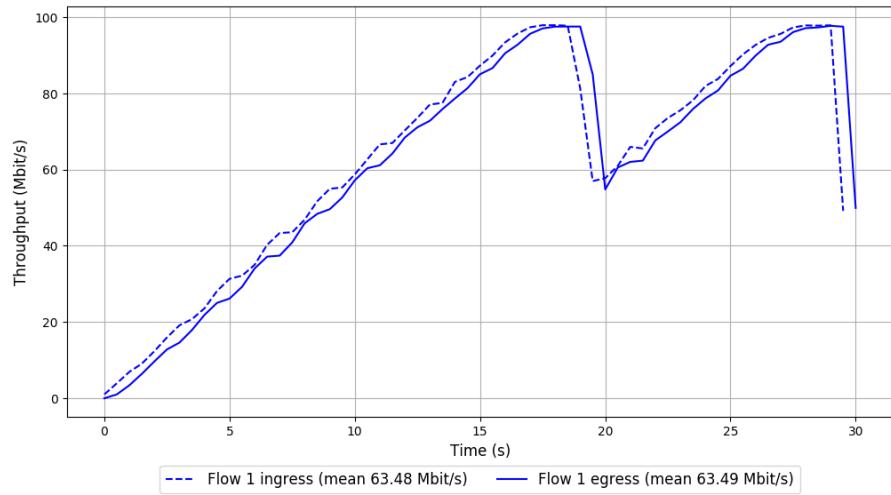


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-19 06:50:36
End at: 2019-01-19 06:51:06
Local clock offset: 0.084 ms
Remote clock offset: 0.849 ms

# Below is generated by plot.py at 2019-01-19 07:47:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.49 Mbit/s
95th percentile per-packet one-way delay: 40.014 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 63.49 Mbit/s
95th percentile per-packet one-way delay: 40.014 ms
Loss rate: 0.19%
```

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

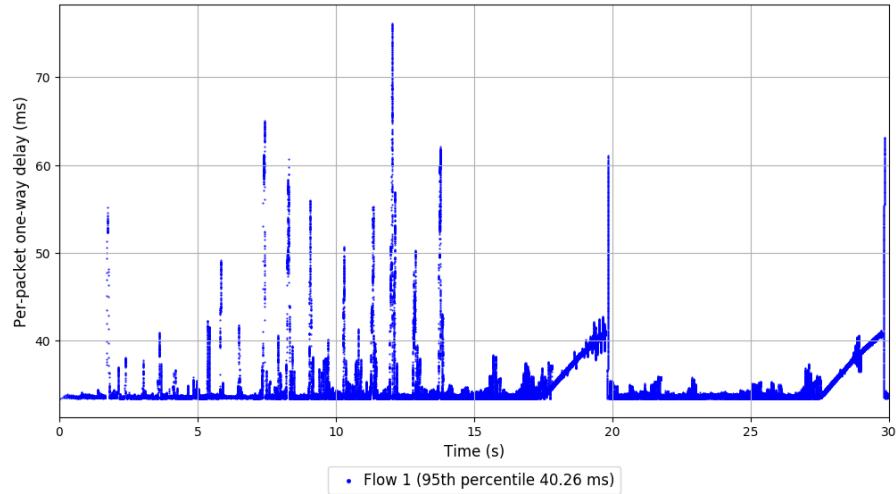
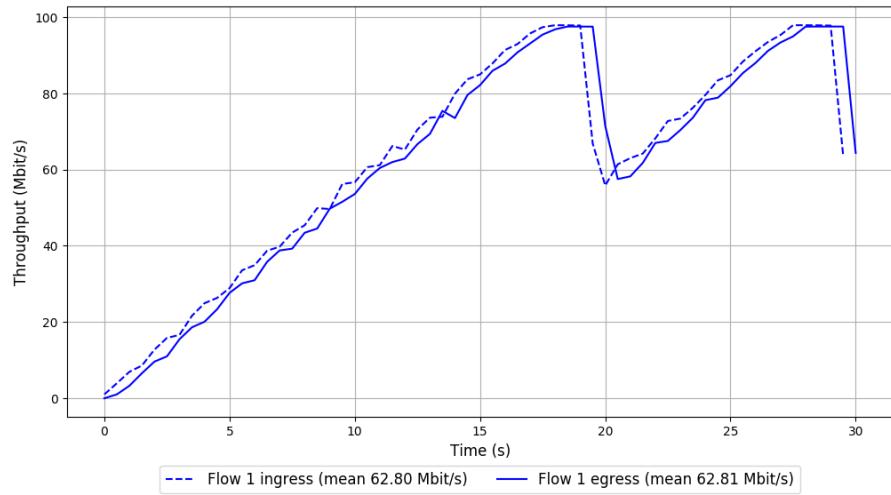


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-19 07:18:19
End at: 2019-01-19 07:18:49
Local clock offset: 0.216 ms
Remote clock offset: 0.657 ms

# Below is generated by plot.py at 2019-01-19 07:47:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.81 Mbit/s
95th percentile per-packet one-way delay: 40.255 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 62.81 Mbit/s
95th percentile per-packet one-way delay: 40.255 ms
Loss rate: 0.19%
```

Run 5: Report of LEDBAT — Data Link

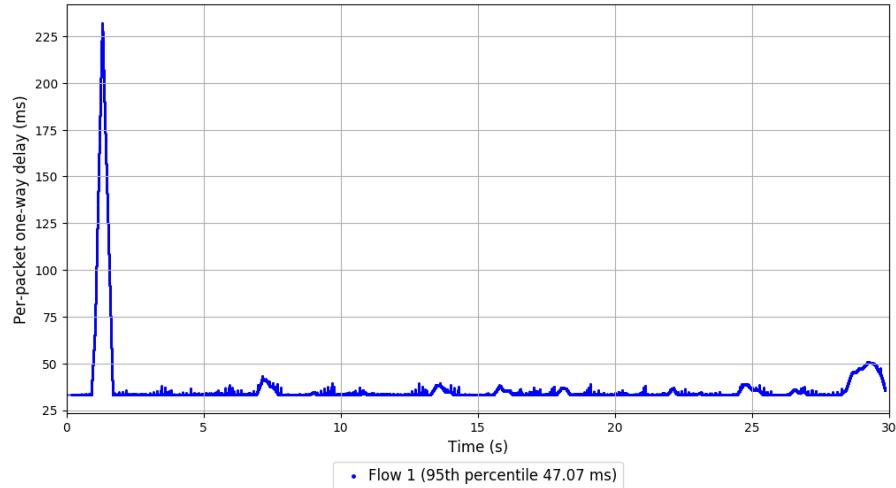
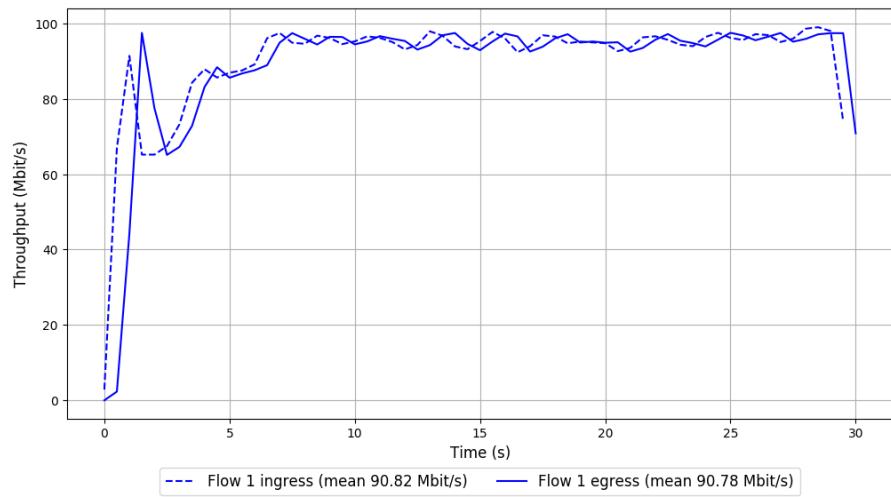


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-19 05:19:51
End at: 2019-01-19 05:20:21
Local clock offset: -0.562 ms
Remote clock offset: -3.84 ms

# Below is generated by plot.py at 2019-01-19 07:47:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.78 Mbit/s
95th percentile per-packet one-way delay: 47.074 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 90.78 Mbit/s
95th percentile per-packet one-way delay: 47.074 ms
Loss rate: 0.26%
```

Run 1: Report of PCC-Allegro — Data Link

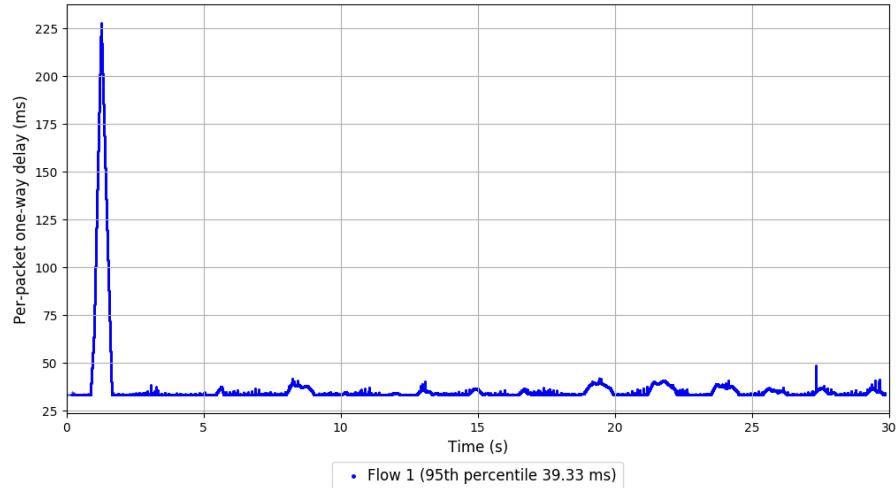
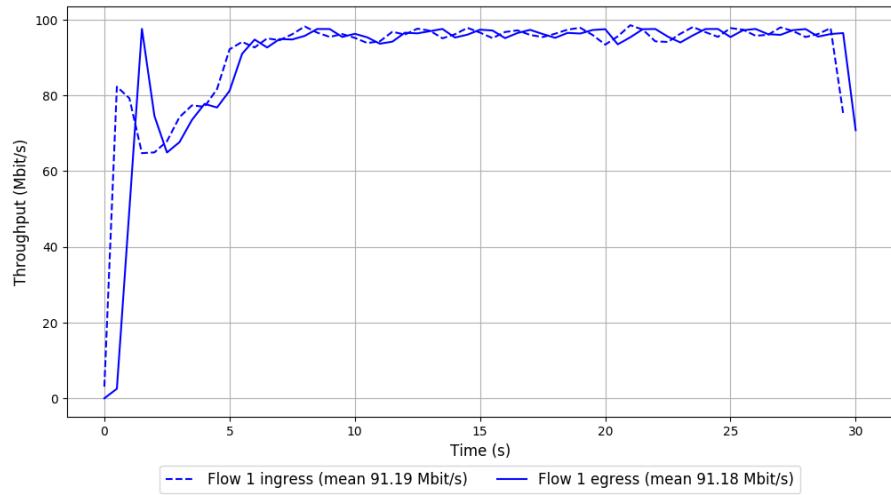


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-19 05:47:23
End at: 2019-01-19 05:47:54
Local clock offset: 0.19 ms
Remote clock offset: -2.027 ms

# Below is generated by plot.py at 2019-01-19 07:48:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: 39.332 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: 39.332 ms
Loss rate: 0.23%
```

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

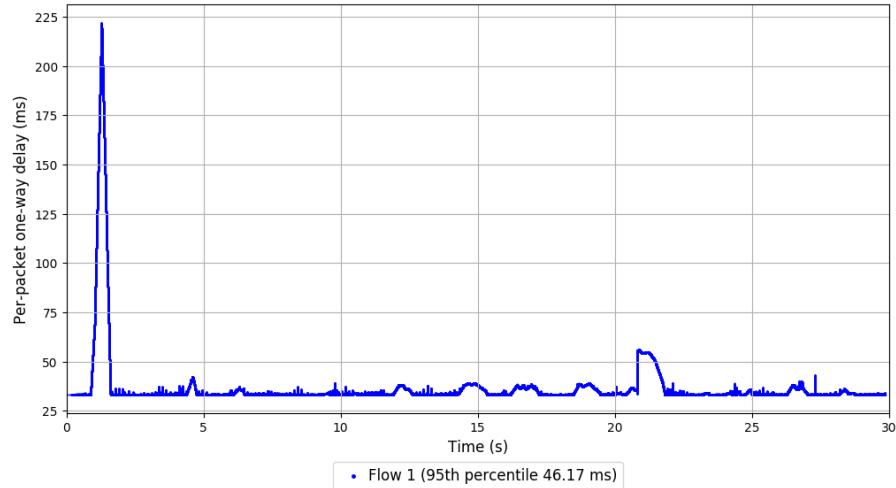
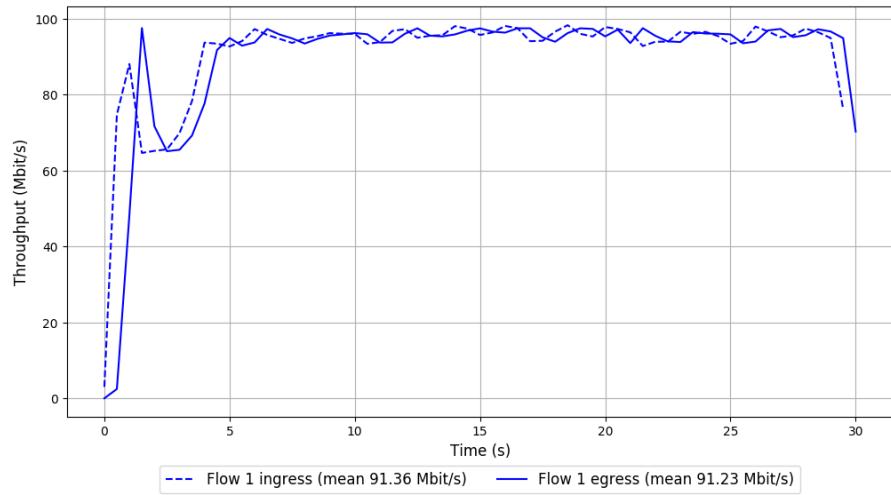


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-19 06:15:18
End at: 2019-01-19 06:15:48
Local clock offset: 0.176 ms
Remote clock offset: -0.319 ms

# Below is generated by plot.py at 2019-01-19 07:48:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 46.173 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 46.173 ms
Loss rate: 0.35%
```

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

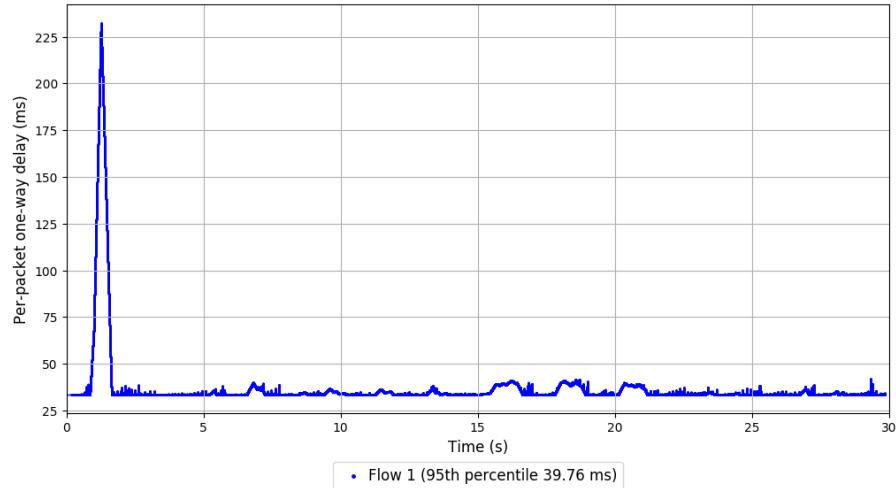
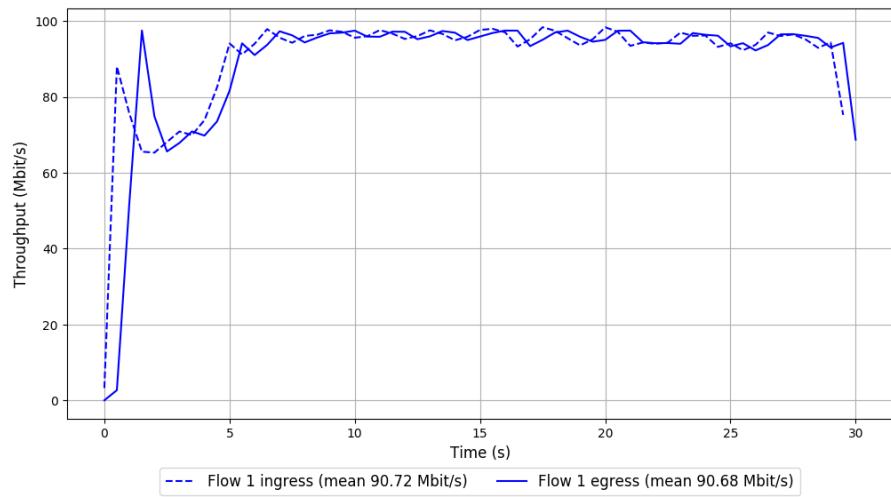


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-19 06:44:02
End at: 2019-01-19 06:44:32
Local clock offset: 0.028 ms
Remote clock offset: 0.624 ms

# Below is generated by plot.py at 2019-01-19 07:48:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 39.755 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 39.755 ms
Loss rate: 0.26%
```

Run 4: Report of PCC-Allegro — Data Link

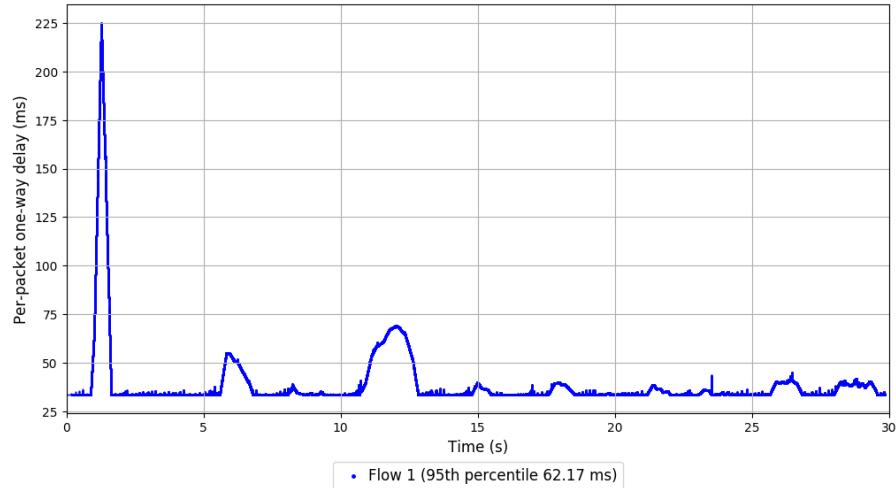
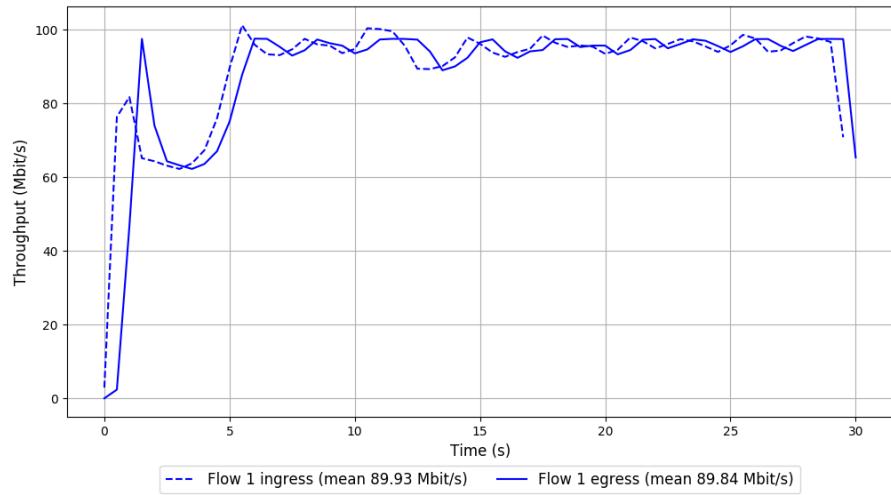


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-19 07:11:53
End at: 2019-01-19 07:12:23
Local clock offset: 0.22 ms
Remote clock offset: 0.475 ms

# Below is generated by plot.py at 2019-01-19 07:48:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.84 Mbit/s
95th percentile per-packet one-way delay: 62.175 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 89.84 Mbit/s
95th percentile per-packet one-way delay: 62.175 ms
Loss rate: 0.32%
```

Run 5: Report of PCC-Allegro — Data Link

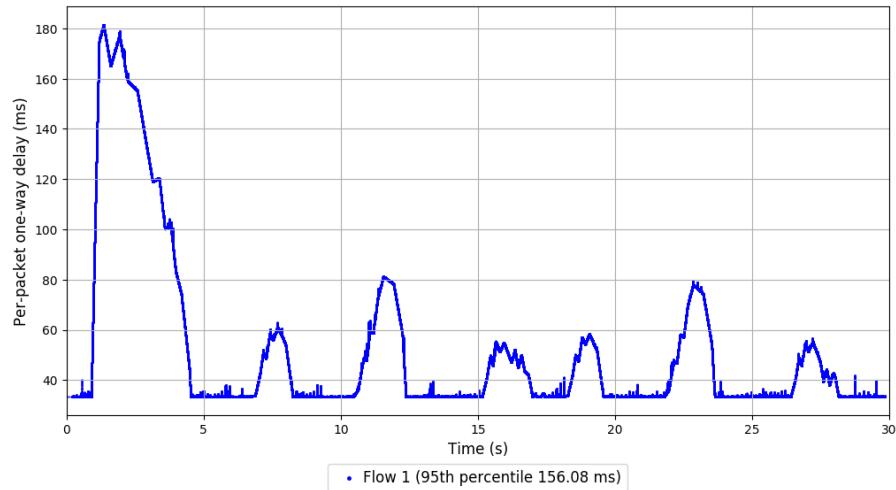
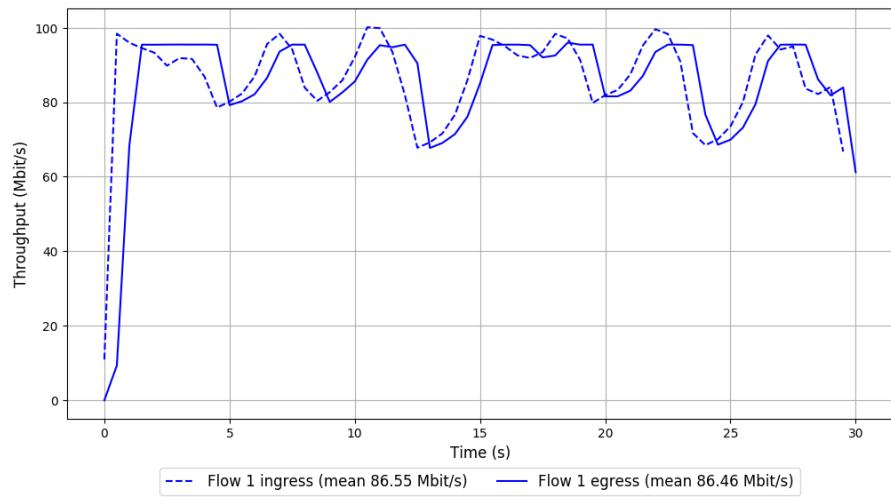


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-19 05:41:59
End at: 2019-01-19 05:42:29
Local clock offset: 0.166 ms
Remote clock offset: -2.457 ms

# Below is generated by plot.py at 2019-01-19 07:49:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.46 Mbit/s
95th percentile per-packet one-way delay: 156.083 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 86.46 Mbit/s
95th percentile per-packet one-way delay: 156.083 ms
Loss rate: 0.31%
```

Run 1: Report of PCC-Expr — Data Link

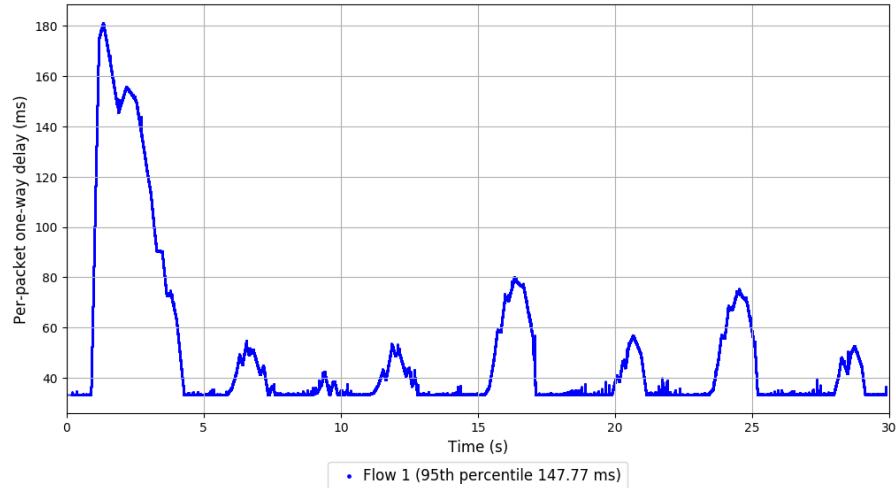
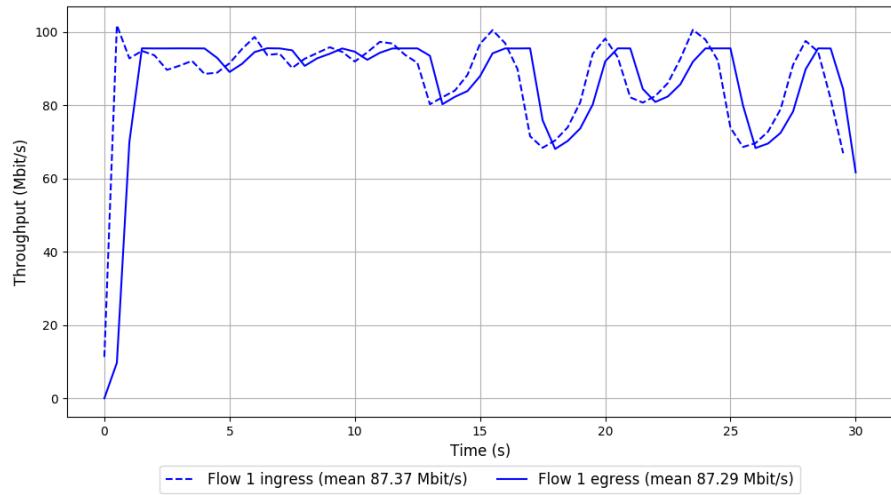


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-19 06:09:34
End at: 2019-01-19 06:10:04
Local clock offset: 0.164 ms
Remote clock offset: -0.68 ms

# Below is generated by plot.py at 2019-01-19 07:49:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.29 Mbit/s
95th percentile per-packet one-way delay: 147.769 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 87.29 Mbit/s
95th percentile per-packet one-way delay: 147.769 ms
Loss rate: 0.31%
```

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

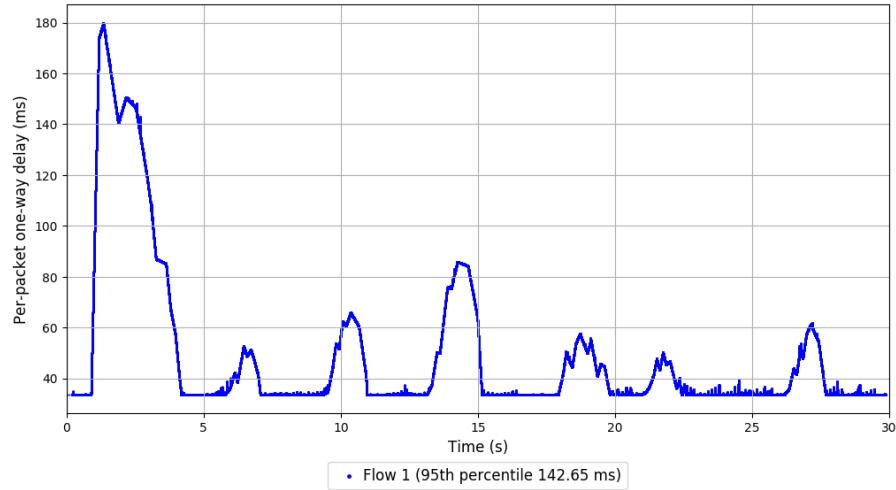
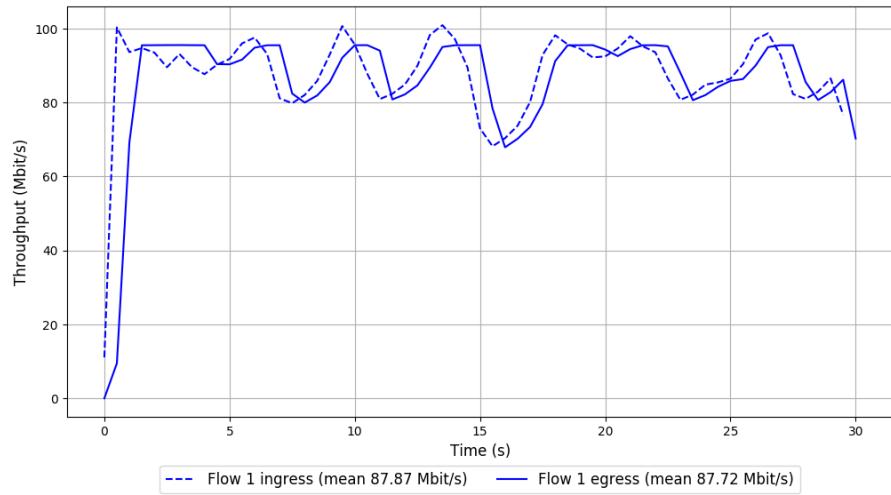


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-19 06:38:28
End at: 2019-01-19 06:38:58
Local clock offset: 0.027 ms
Remote clock offset: 0.731 ms

# Below is generated by plot.py at 2019-01-19 07:49:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.72 Mbit/s
95th percentile per-packet one-way delay: 142.649 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 87.72 Mbit/s
95th percentile per-packet one-way delay: 142.649 ms
Loss rate: 0.38%
```

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

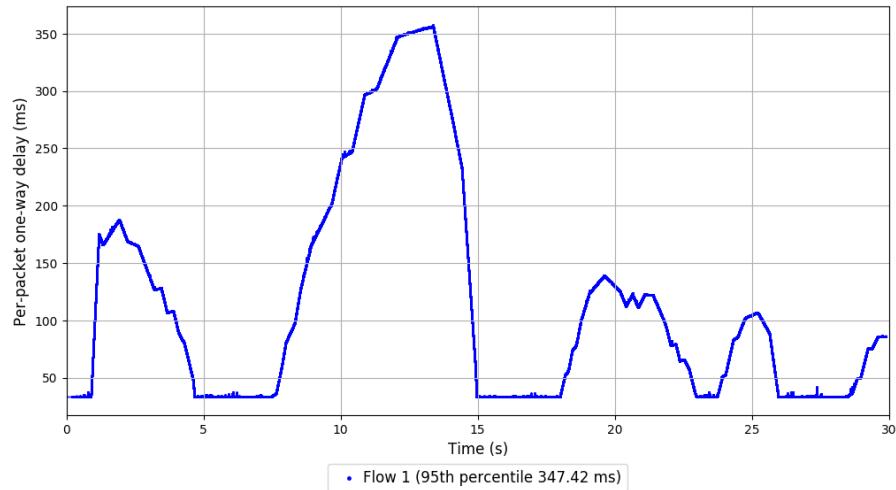
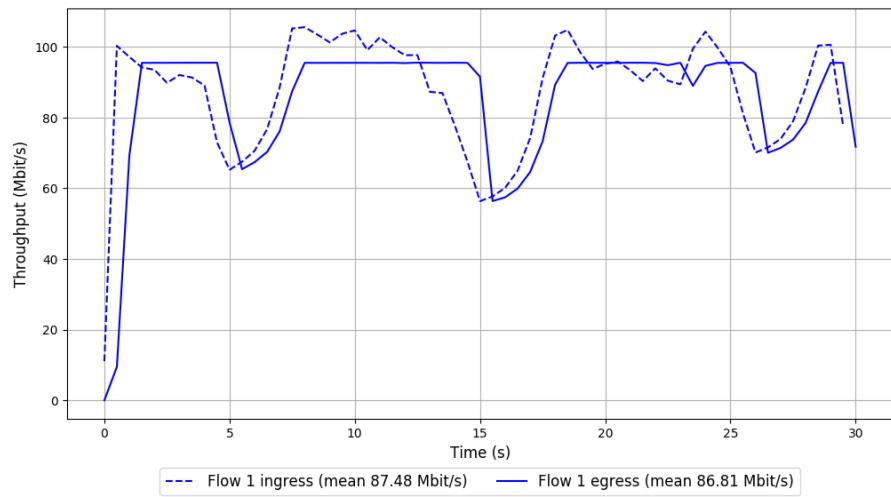


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-19 07:06:47
End at: 2019-01-19 07:07:17
Local clock offset: 0.206 ms
Remote clock offset: 0.668 ms

# Below is generated by plot.py at 2019-01-19 07:49:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.81 Mbit/s
95th percentile per-packet one-way delay: 347.419 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 86.81 Mbit/s
95th percentile per-packet one-way delay: 347.419 ms
Loss rate: 0.98%
```

Run 4: Report of PCC-Expr — Data Link

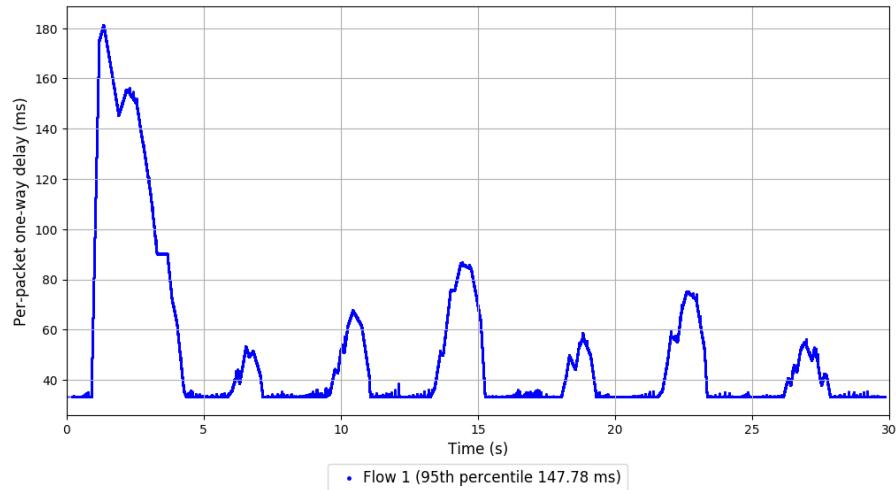
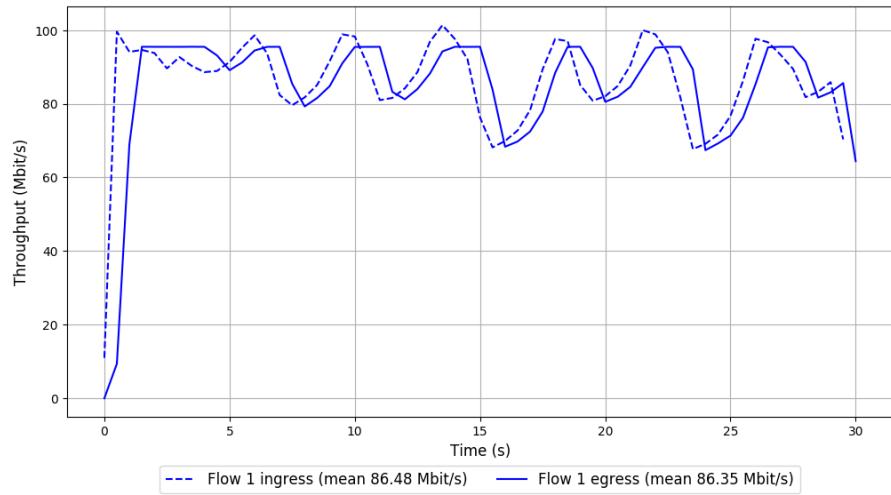


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-19 07:33:47
End at: 2019-01-19 07:34:17
Local clock offset: 0.241 ms
Remote clock offset: 0.423 ms

# Below is generated by plot.py at 2019-01-19 07:49:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.35 Mbit/s
95th percentile per-packet one-way delay: 147.776 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 86.35 Mbit/s
95th percentile per-packet one-way delay: 147.776 ms
Loss rate: 0.36%
```

### Run 5: Report of PCC-Expr — Data Link

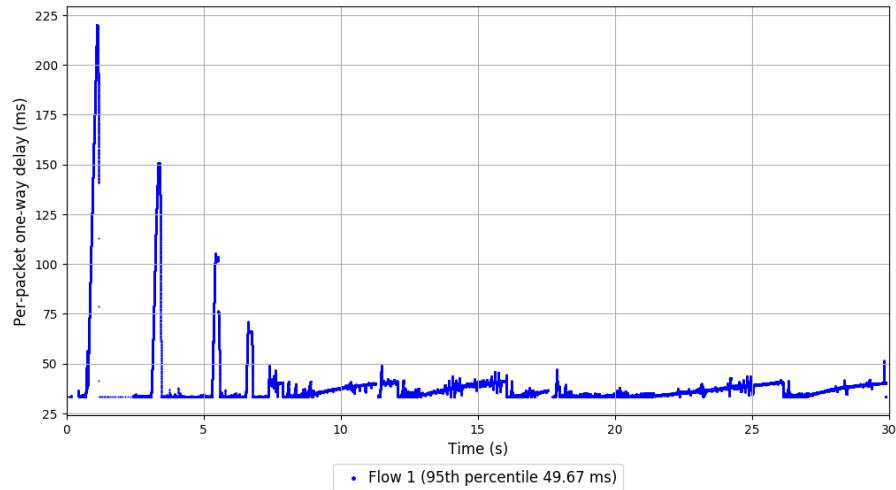
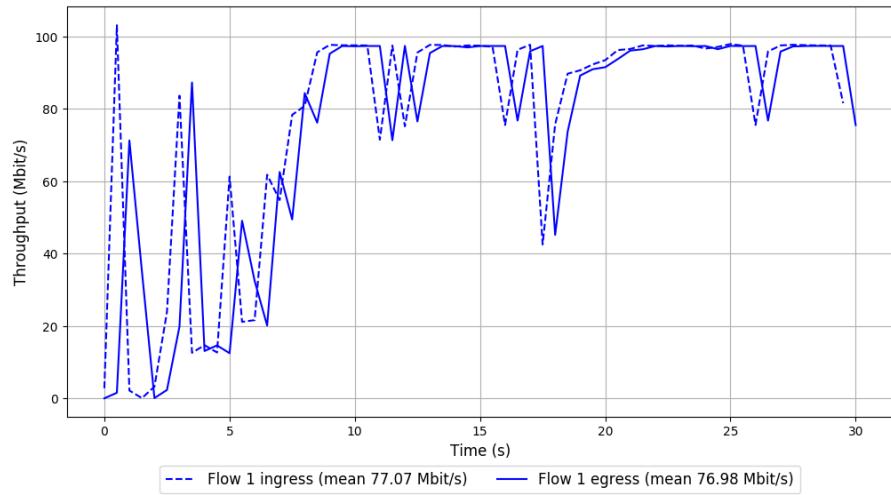


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-01-19 05:40:46
End at: 2019-01-19 05:41:16
Local clock offset: 0.142 ms
Remote clock offset: -2.586 ms

# Below is generated by plot.py at 2019-01-19 07:49:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.98 Mbit/s
95th percentile per-packet one-way delay: 49.666 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 76.98 Mbit/s
95th percentile per-packet one-way delay: 49.666 ms
Loss rate: 0.33%
```

Run 1: Report of QUIC Cubic — Data Link

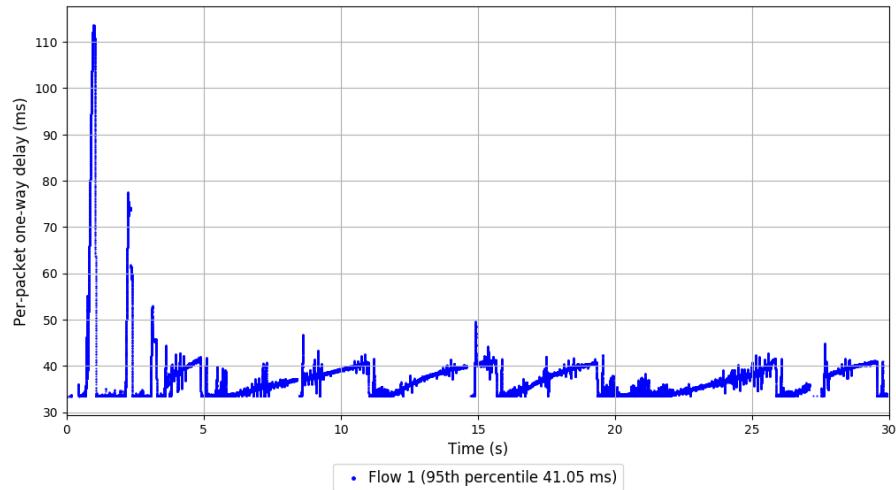
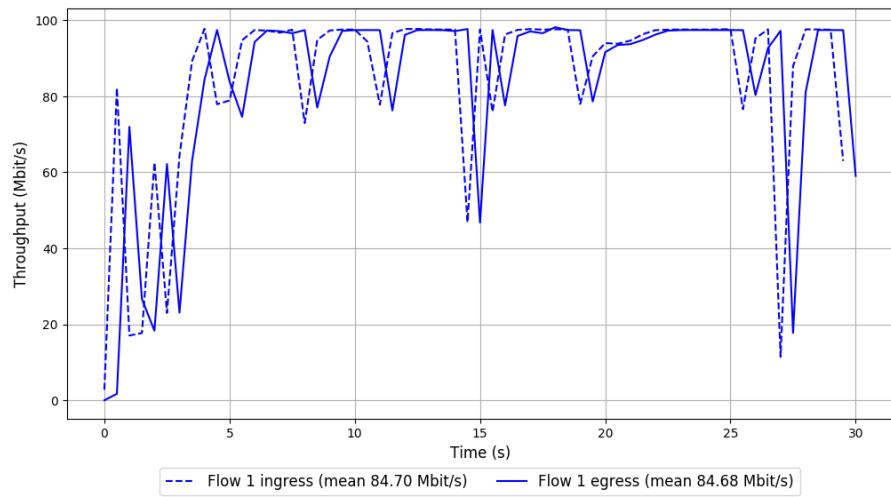


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-19 06:08:10
End at: 2019-01-19 06:08:40
Local clock offset: 0.154 ms
Remote clock offset: -0.772 ms

# Below is generated by plot.py at 2019-01-19 07:49:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.68 Mbit/s
95th percentile per-packet one-way delay: 41.047 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 84.68 Mbit/s
95th percentile per-packet one-way delay: 41.047 ms
Loss rate: 0.24%
```

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

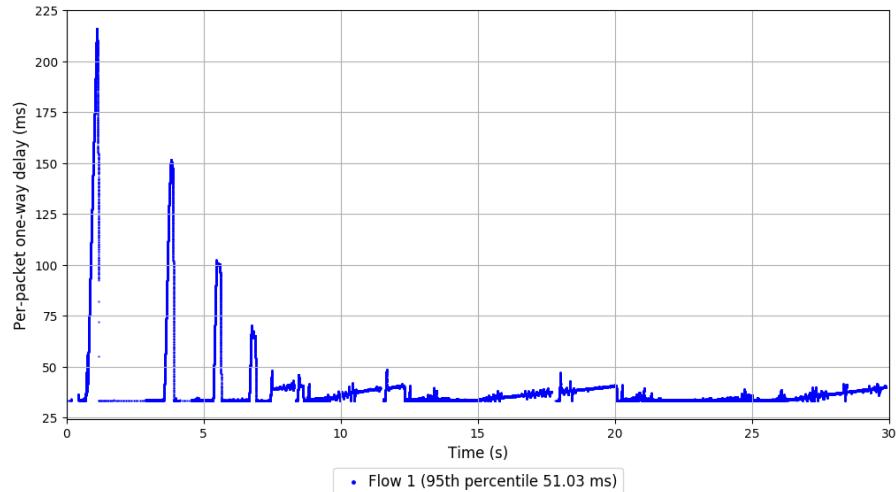
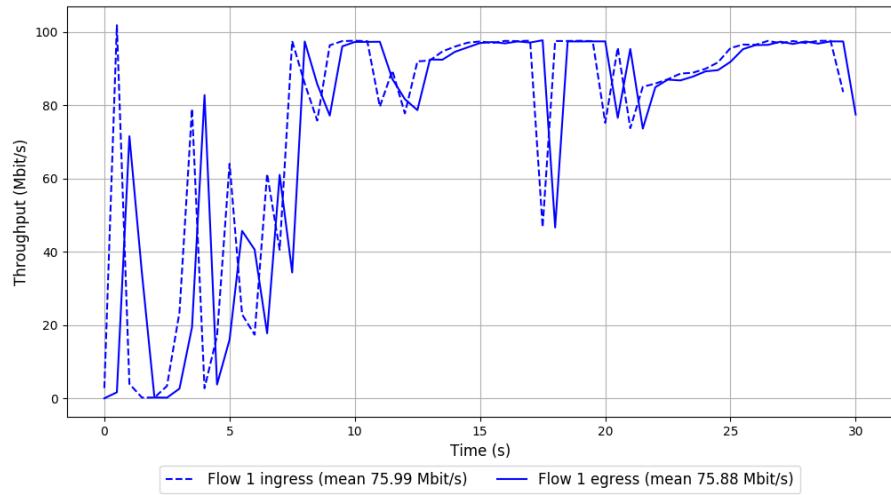


```
Run 3: Statistics of QUIC Cubic
```

```
Start at: 2019-01-19 06:37:13
End at: 2019-01-19 06:37:43
Local clock offset: 0.03 ms
Remote clock offset: 0.877 ms

# Below is generated by plot.py at 2019-01-19 07:49:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.88 Mbit/s
95th percentile per-packet one-way delay: 51.033 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 75.88 Mbit/s
95th percentile per-packet one-way delay: 51.033 ms
Loss rate: 0.35%
```

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

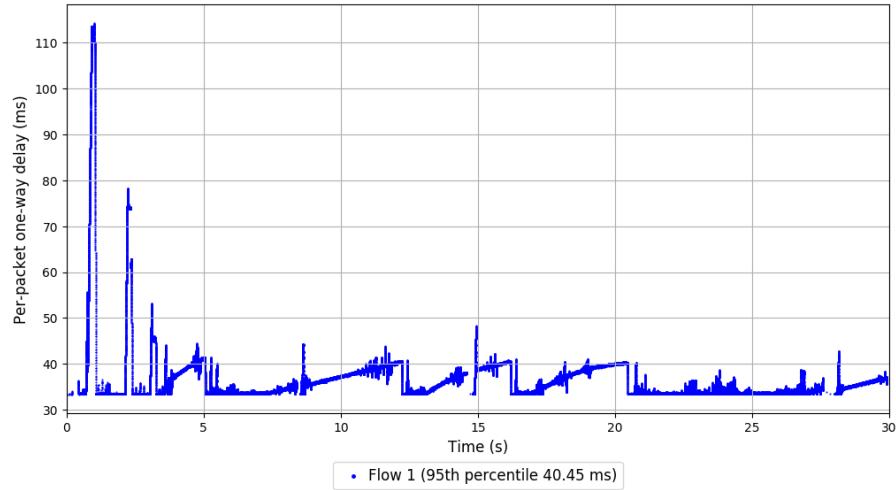
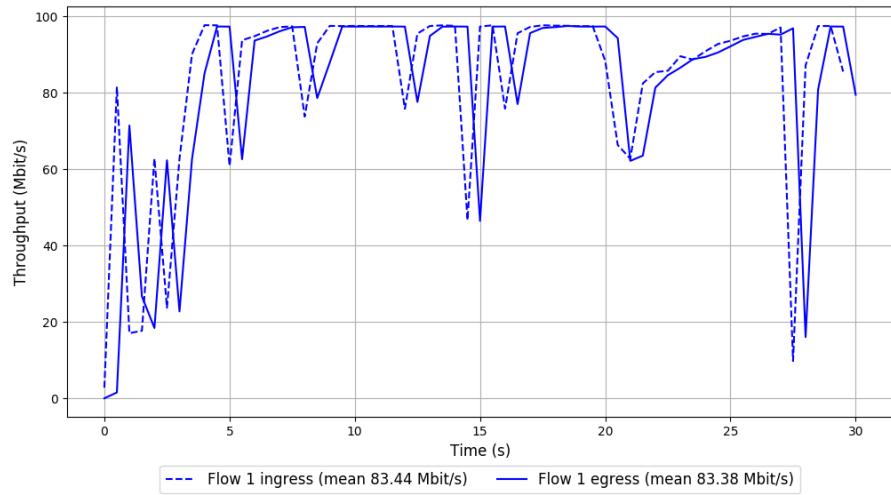


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-19 07:05:29
End at: 2019-01-19 07:05:59
Local clock offset: 0.21 ms
Remote clock offset: 0.723 ms

# Below is generated by plot.py at 2019-01-19 07:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.38 Mbit/s
95th percentile per-packet one-way delay: 40.453 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 83.38 Mbit/s
95th percentile per-packet one-way delay: 40.453 ms
Loss rate: 0.29%
```

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

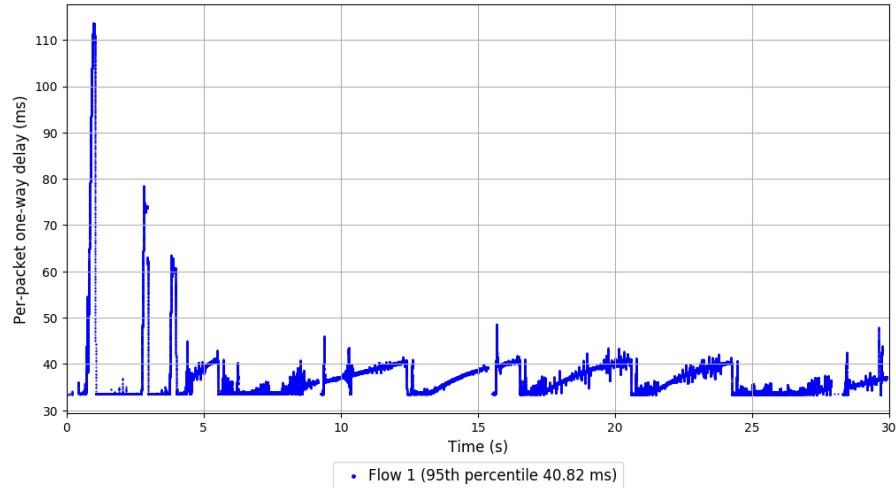
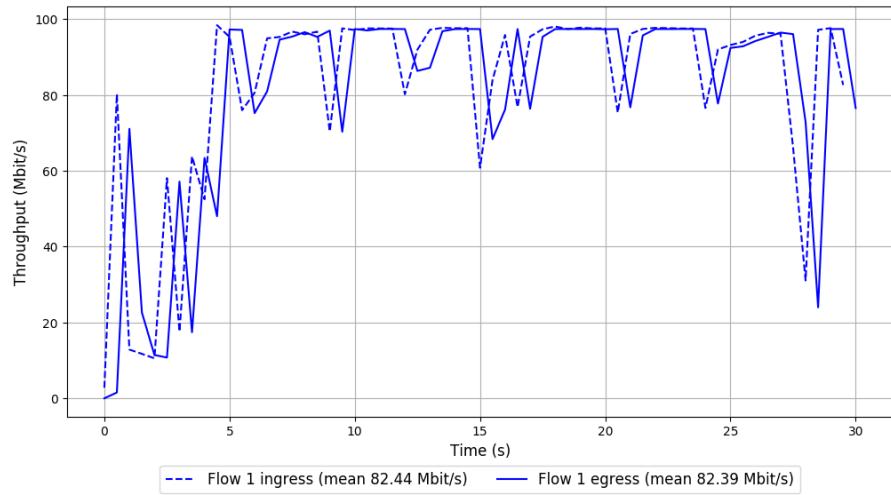


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-19 07:32:32
End at: 2019-01-19 07:33:02
Local clock offset: 0.241 ms
Remote clock offset: 0.447 ms

# Below is generated by plot.py at 2019-01-19 07:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.39 Mbit/s
95th percentile per-packet one-way delay: 40.816 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 82.39 Mbit/s
95th percentile per-packet one-way delay: 40.816 ms
Loss rate: 0.27%
```

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

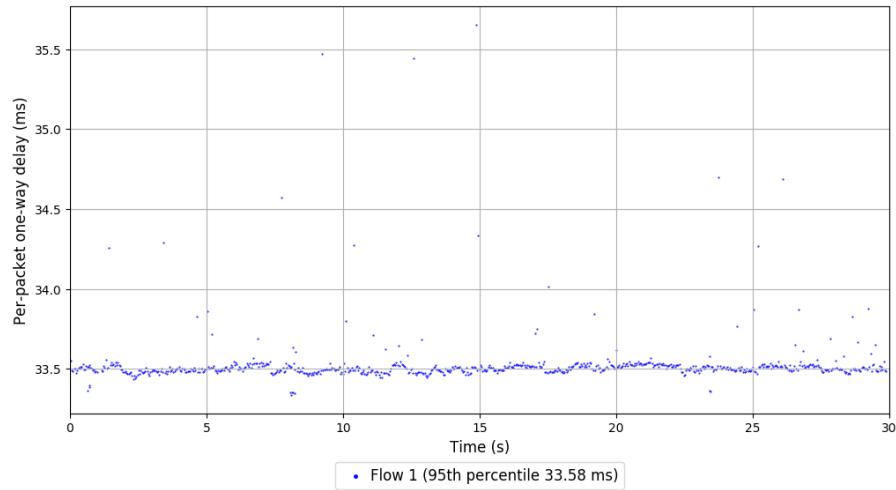
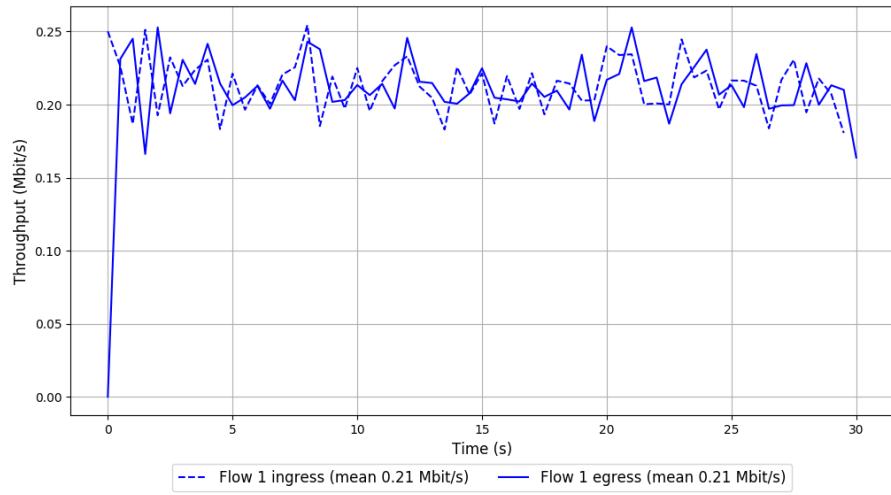


Run 1: Statistics of SCReAM

```
Start at: 2019-01-19 05:37:14
End at: 2019-01-19 05:37:44
Local clock offset: 0.12 ms
Remote clock offset: -2.769 ms

# Below is generated by plot.py at 2019-01-19 07:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.584 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.584 ms
Loss rate: 0.26%
```

Run 1: Report of SCReAM — Data Link

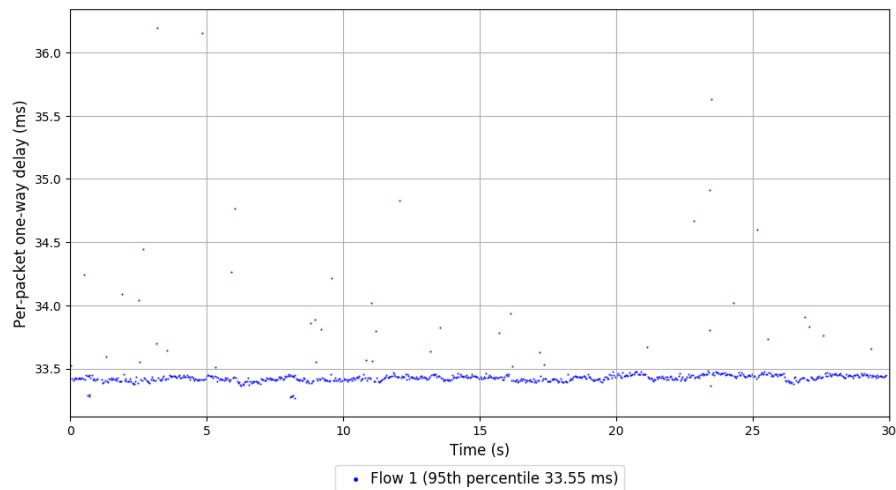
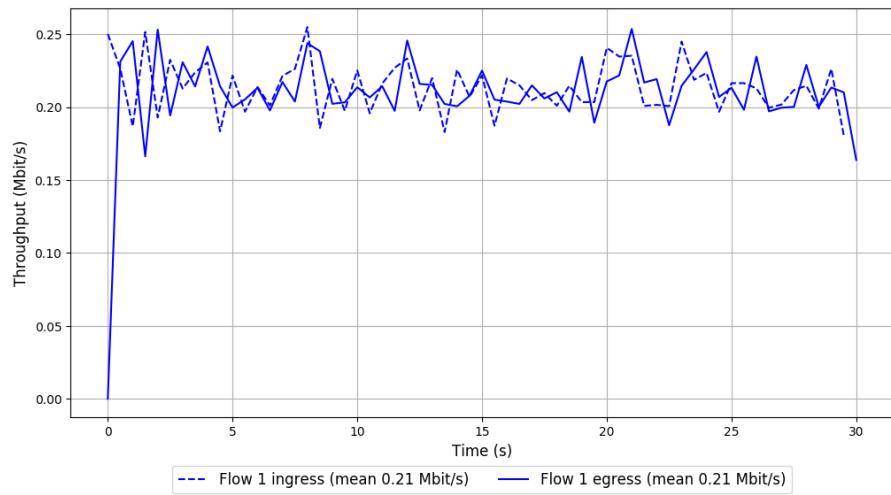


Run 2: Statistics of SCReAM

```
Start at: 2019-01-19 06:04:28
End at: 2019-01-19 06:04:58
Local clock offset: 0.15 ms
Remote clock offset: -0.978 ms

# Below is generated by plot.py at 2019-01-19 07:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.550 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.550 ms
Loss rate: 0.26%
```

Run 2: Report of SCReAM — Data Link

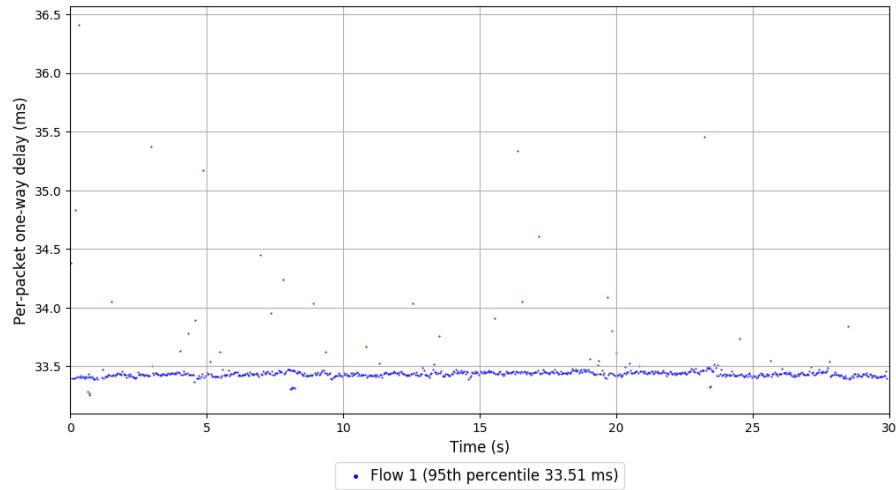
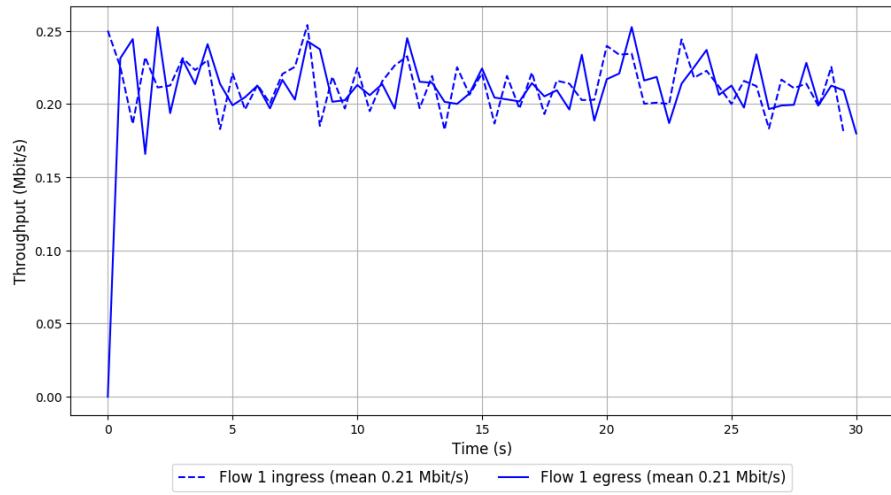


Run 3: Statistics of SCReAM

```
Start at: 2019-01-19 06:33:22
End at: 2019-01-19 06:33:52
Local clock offset: 0.022 ms
Remote clock offset: 0.76 ms

# Below is generated by plot.py at 2019-01-19 07:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.506 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.506 ms
Loss rate: 0.13%
```

Run 3: Report of SCReAM — Data Link

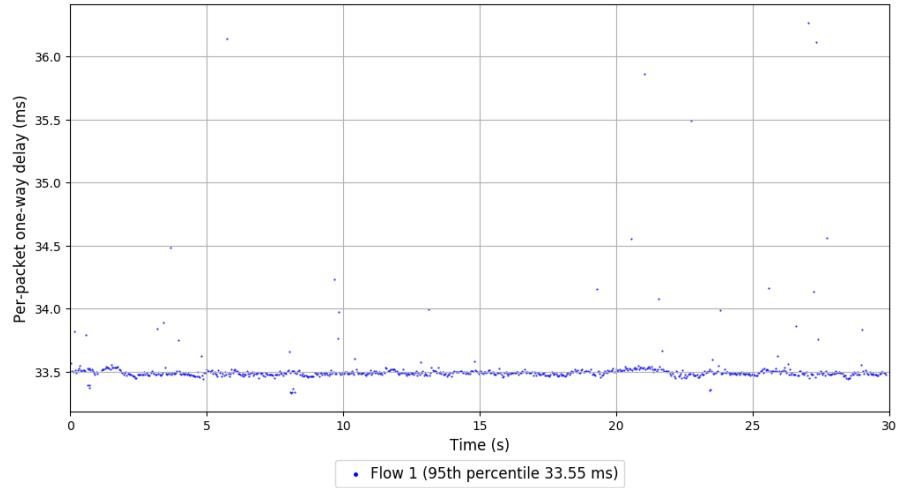
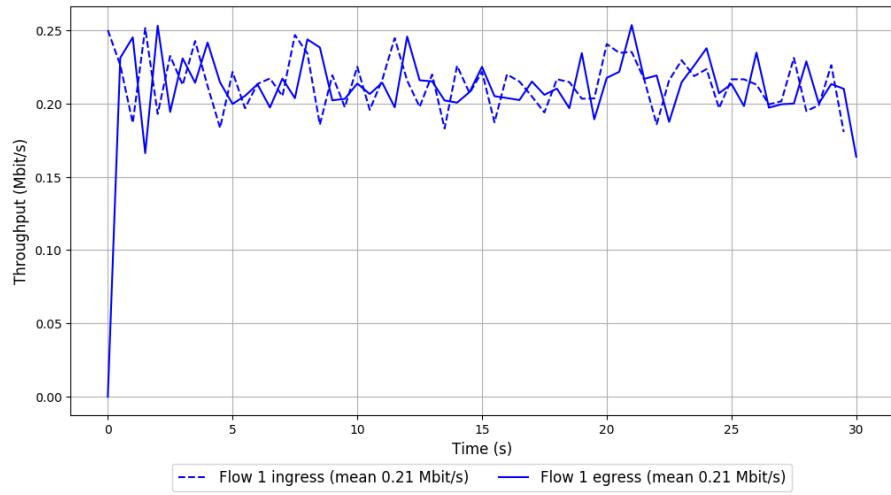


Run 4: Statistics of SCReAM

```
Start at: 2019-01-19 07:01:30
End at: 2019-01-19 07:02:00
Local clock offset: 0.177 ms
Remote clock offset: 0.703 ms

# Below is generated by plot.py at 2019-01-19 07:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.549 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.549 ms
Loss rate: 0.26%
```

Run 4: Report of SCReAM — Data Link

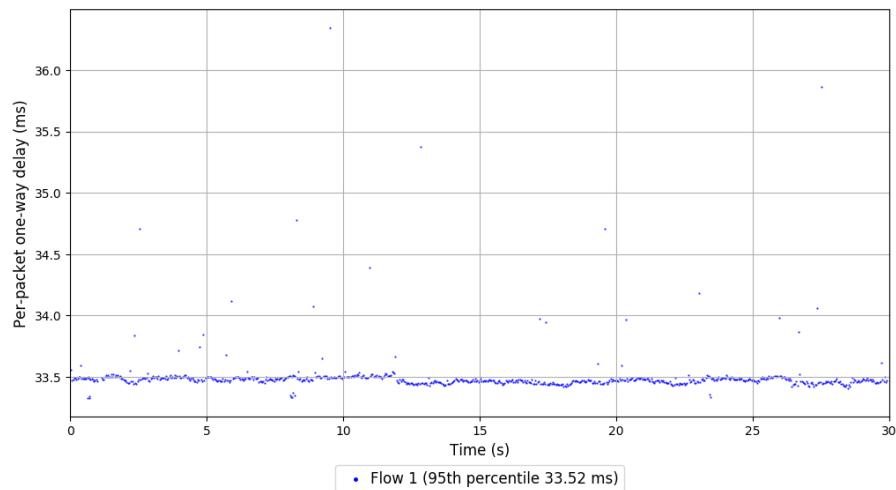
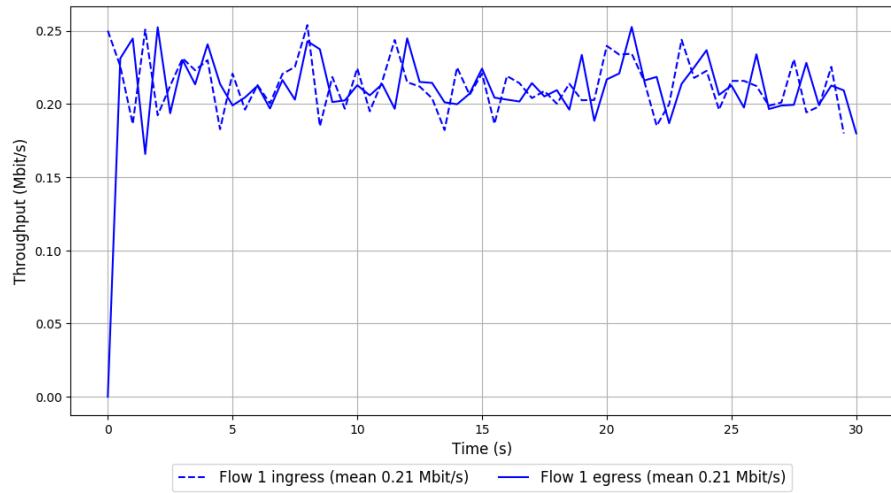


Run 5: Statistics of SCReAM

```
Start at: 2019-01-19 07:28:56
End at: 2019-01-19 07:29:26
Local clock offset: 0.232 ms
Remote clock offset: 0.619 ms

# Below is generated by plot.py at 2019-01-19 07:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.525 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.525 ms
Loss rate: 0.13%
```

Run 5: Report of SCReAM — Data Link

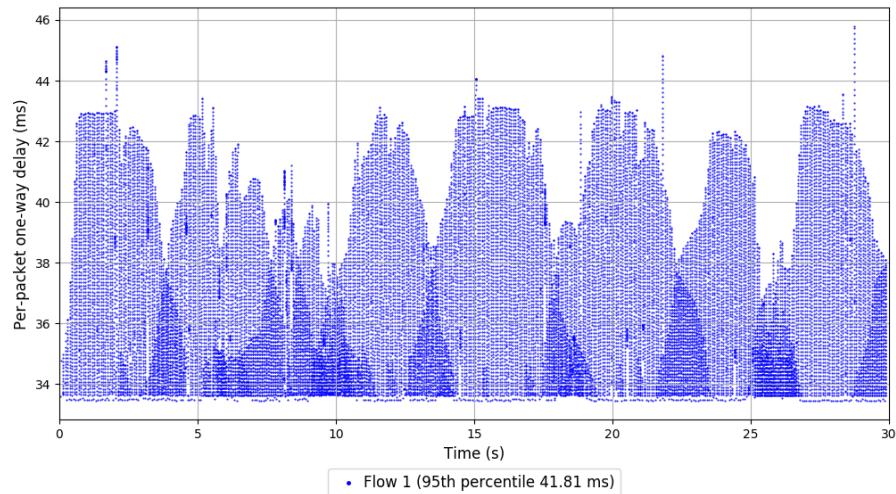
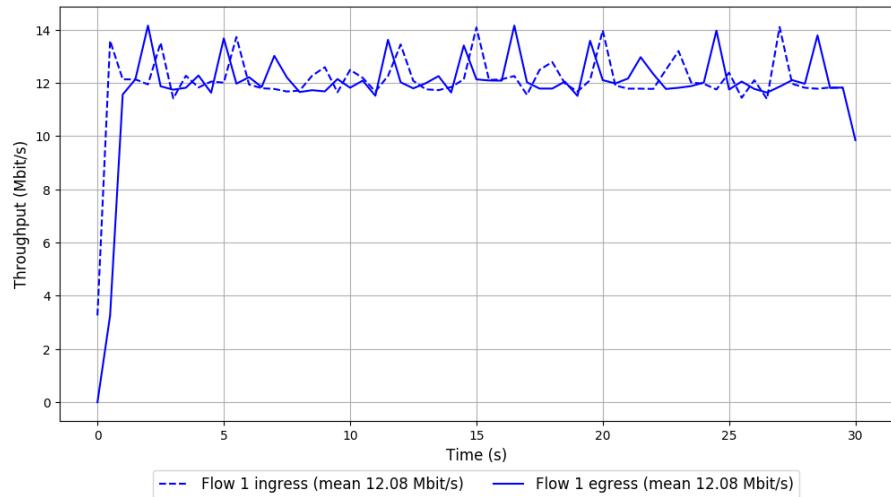


Run 1: Statistics of Sprout

```
Start at: 2019-01-19 05:18:44
End at: 2019-01-19 05:19:14
Local clock offset: -0.653 ms
Remote clock offset: -4.084 ms

# Below is generated by plot.py at 2019-01-19 07:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 41.807 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 41.807 ms
Loss rate: 0.27%
```

## Run 1: Report of Sprout — Data Link

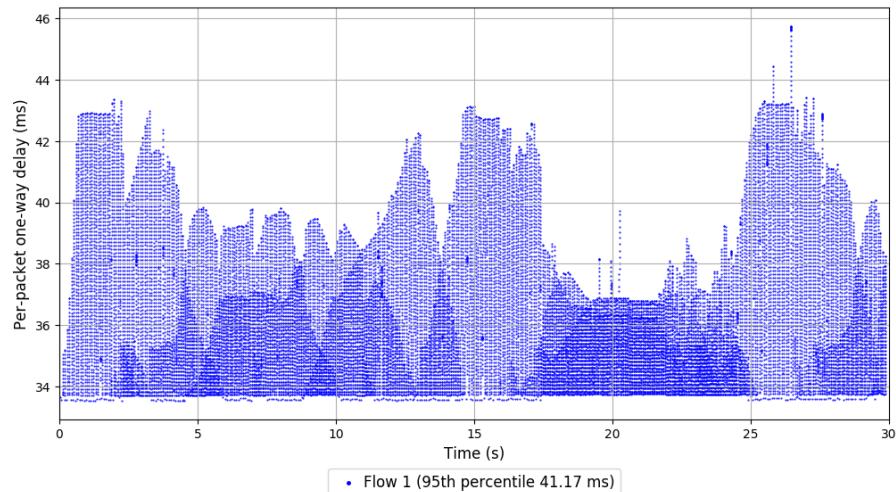
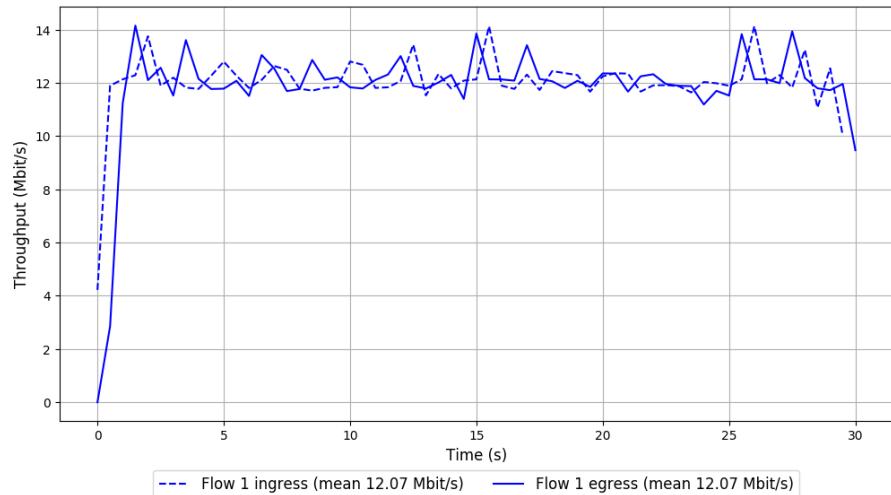


Run 2: Statistics of Sprout

```
Start at: 2019-01-19 05:46:15
End at: 2019-01-19 05:46:45
Local clock offset: 0.184 ms
Remote clock offset: -2.359 ms

# Below is generated by plot.py at 2019-01-19 07:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 41.167 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 41.167 ms
Loss rate: 0.27%
```

## Run 2: Report of Sprout — Data Link

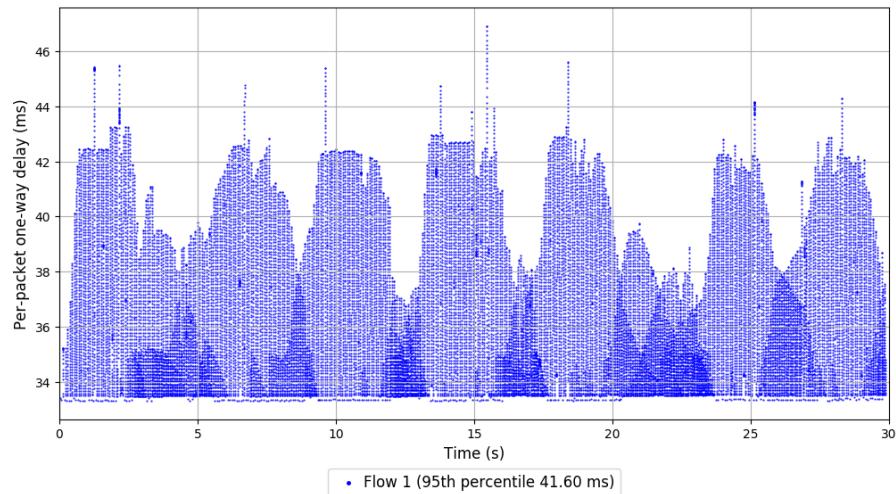
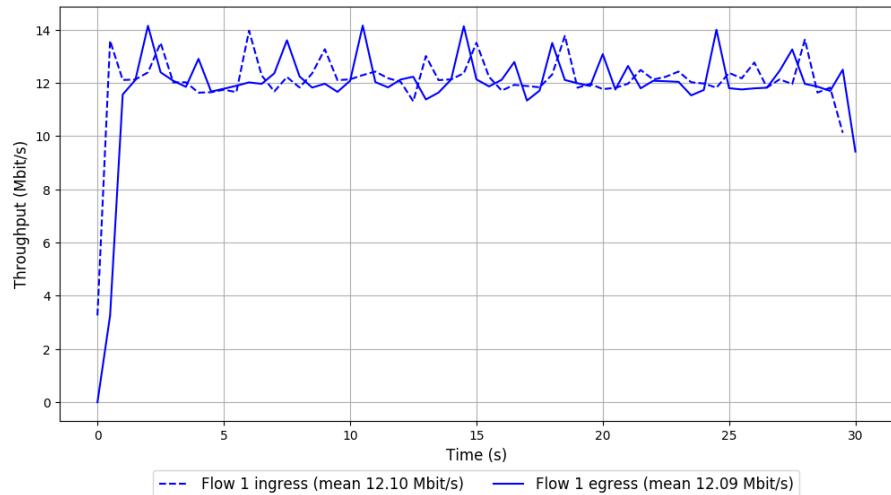


Run 3: Statistics of Sprout

```
Start at: 2019-01-19 06:14:11
End at: 2019-01-19 06:14:41
Local clock offset: 0.177 ms
Remote clock offset: -0.391 ms

# Below is generated by plot.py at 2019-01-19 07:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 41.605 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 41.605 ms
Loss rate: 0.27%
```

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

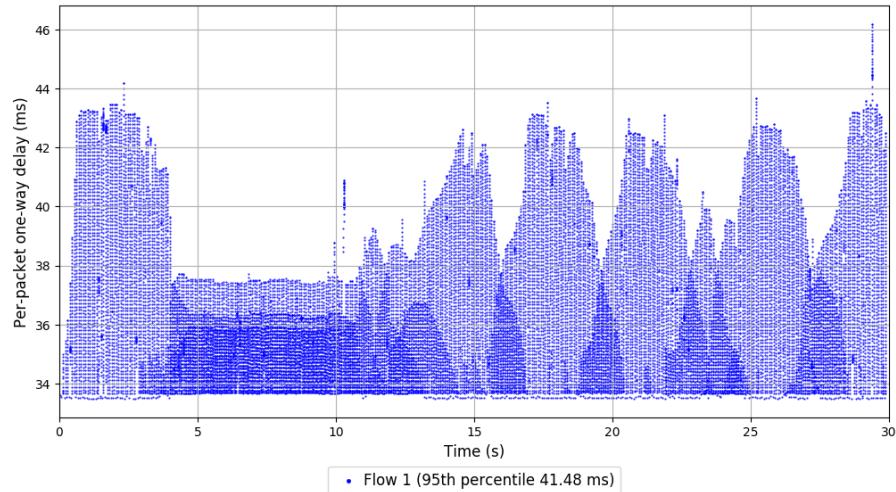
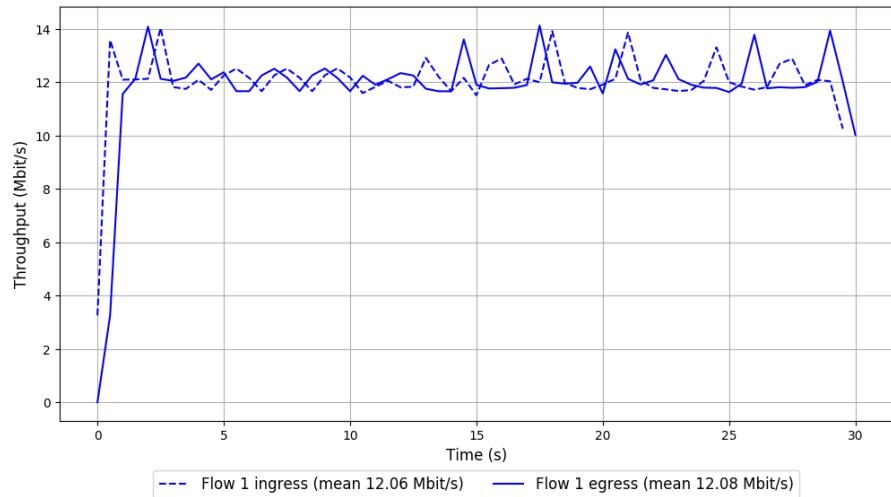


Run 4: Statistics of Sprout

```
Start at: 2019-01-19 06:42:53
End at: 2019-01-19 06:43:23
Local clock offset: 0.027 ms
Remote clock offset: 0.645 ms

# Below is generated by plot.py at 2019-01-19 07:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 41.484 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 41.484 ms
Loss rate: 0.03%
```

## Run 4: Report of Sprout — Data Link

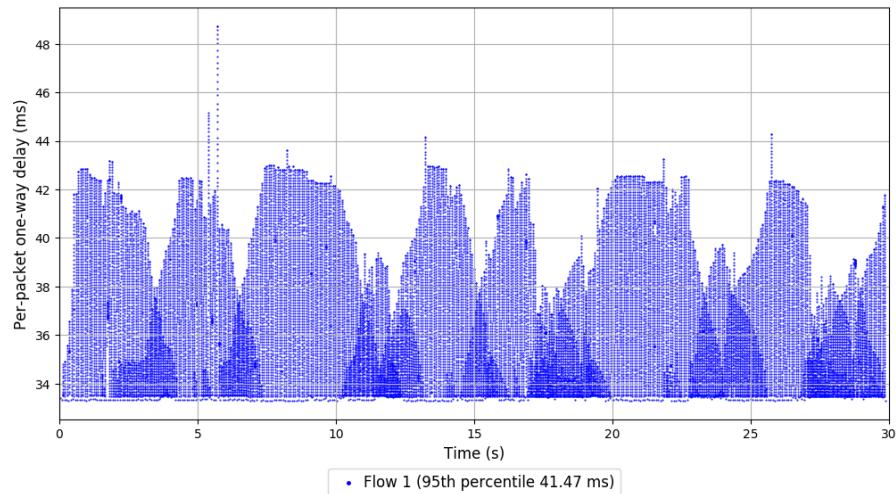
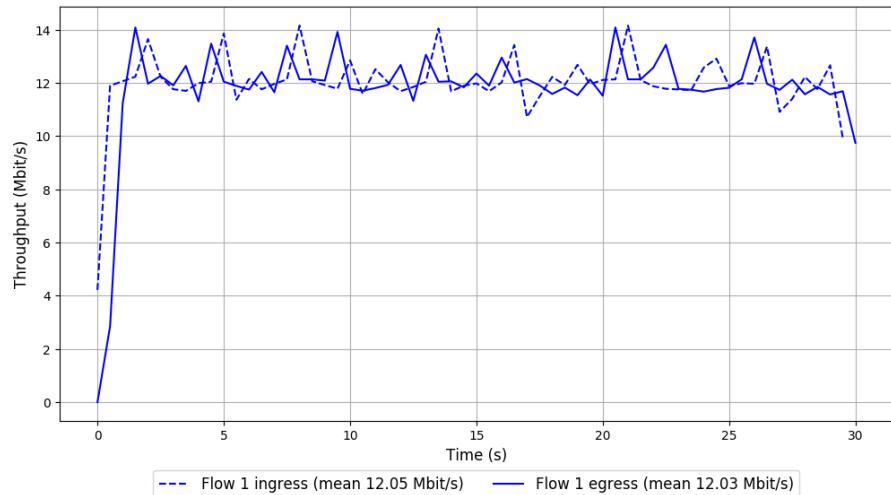


Run 5: Statistics of Sprout

```
Start at: 2019-01-19 07:10:45
End at: 2019-01-19 07:11:15
Local clock offset: 0.215 ms
Remote clock offset: 0.668 ms

# Below is generated by plot.py at 2019-01-19 07:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 41.474 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 41.474 ms
Loss rate: 0.28%
```

## Run 5: Report of Sprout — Data Link

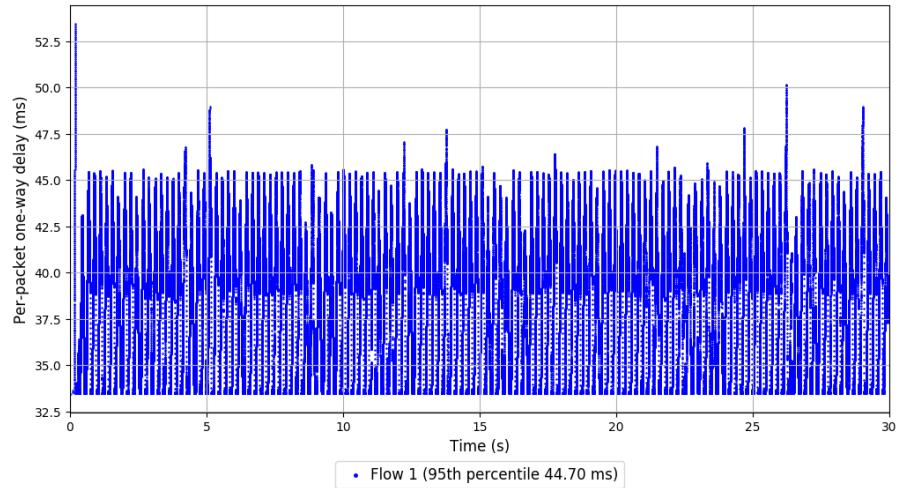
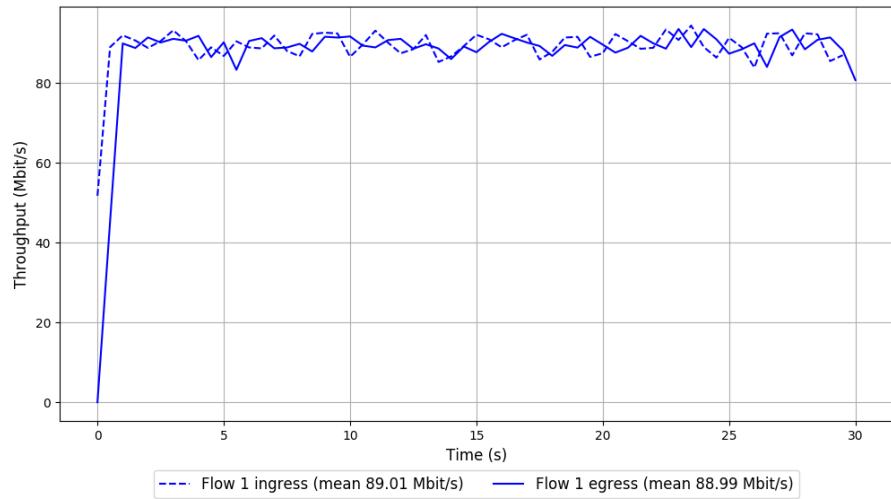


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-19 05:43:29
End at: 2019-01-19 05:43:59
Local clock offset: 0.162 ms
Remote clock offset: -2.341 ms

# Below is generated by plot.py at 2019-01-19 07:51:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.99 Mbit/s
95th percentile per-packet one-way delay: 44.701 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 88.99 Mbit/s
95th percentile per-packet one-way delay: 44.701 ms
Loss rate: 0.23%
```

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

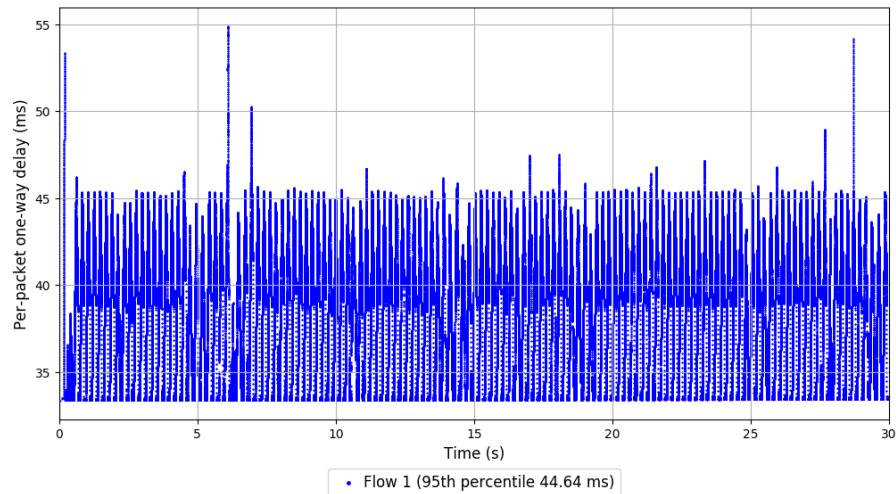
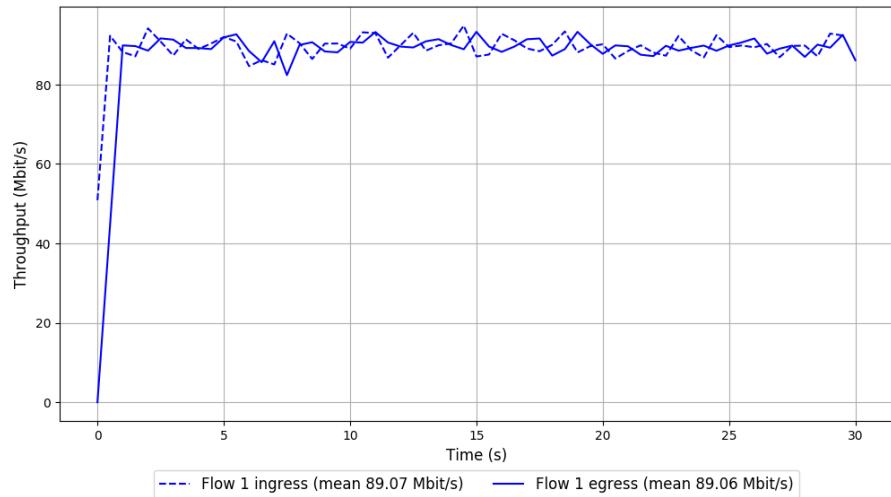


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-19 06:11:16
End at: 2019-01-19 06:11:46
Local clock offset: 0.165 ms
Remote clock offset: -0.554 ms

# Below is generated by plot.py at 2019-01-19 07:51:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.06 Mbit/s
95th percentile per-packet one-way delay: 44.636 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 89.06 Mbit/s
95th percentile per-packet one-way delay: 44.636 ms
Loss rate: 0.23%
```

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

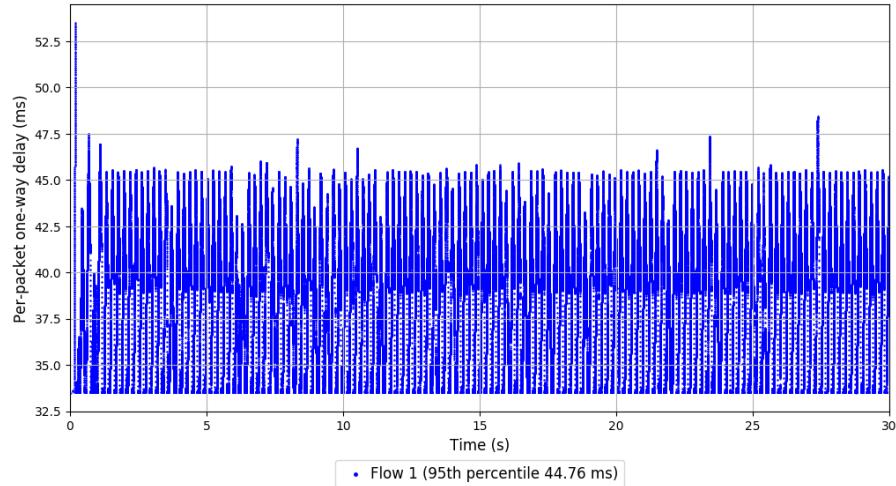
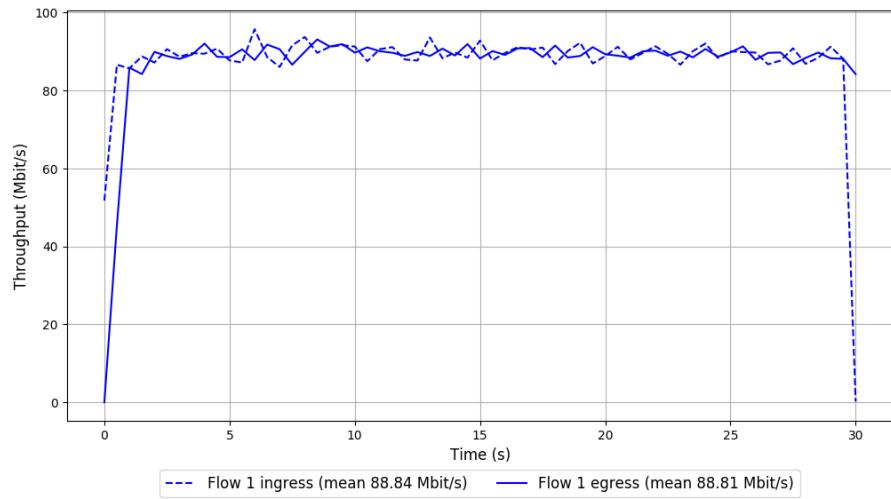


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-19 06:39:54
End at: 2019-01-19 06:40:24
Local clock offset: 0.019 ms
Remote clock offset: 0.826 ms

# Below is generated by plot.py at 2019-01-19 07:51:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.81 Mbit/s
95th percentile per-packet one-way delay: 44.756 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 88.81 Mbit/s
95th percentile per-packet one-way delay: 44.756 ms
Loss rate: 0.25%
```

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

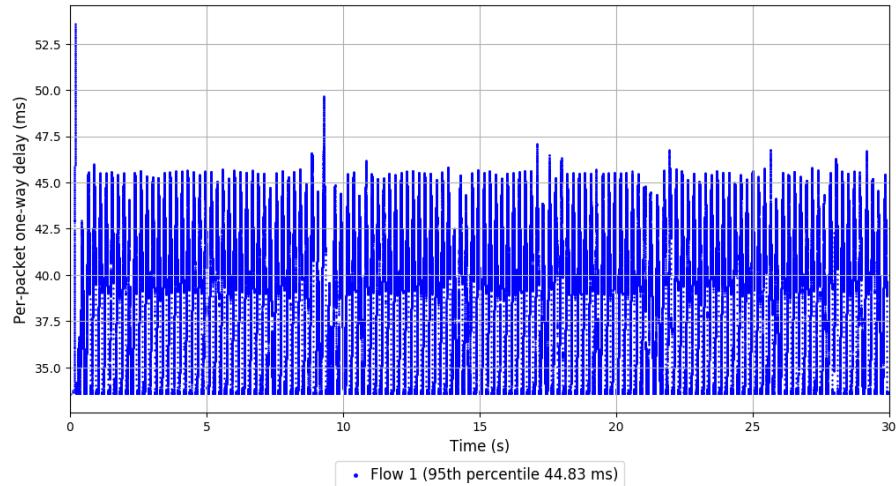
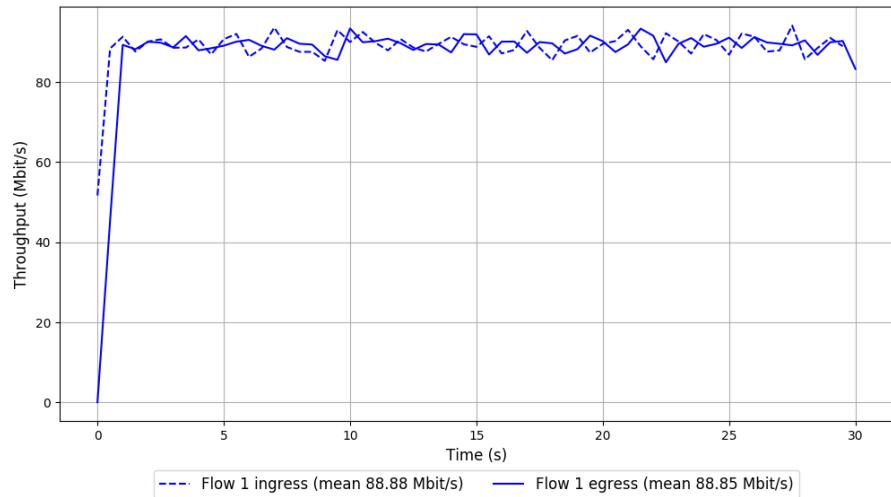


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-19 07:08:08
End at: 2019-01-19 07:08:38
Local clock offset: 0.209 ms
Remote clock offset: 0.435 ms

# Below is generated by plot.py at 2019-01-19 07:51:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.85 Mbit/s
95th percentile per-packet one-way delay: 44.833 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 88.85 Mbit/s
95th percentile per-packet one-way delay: 44.833 ms
Loss rate: 0.24%
```

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

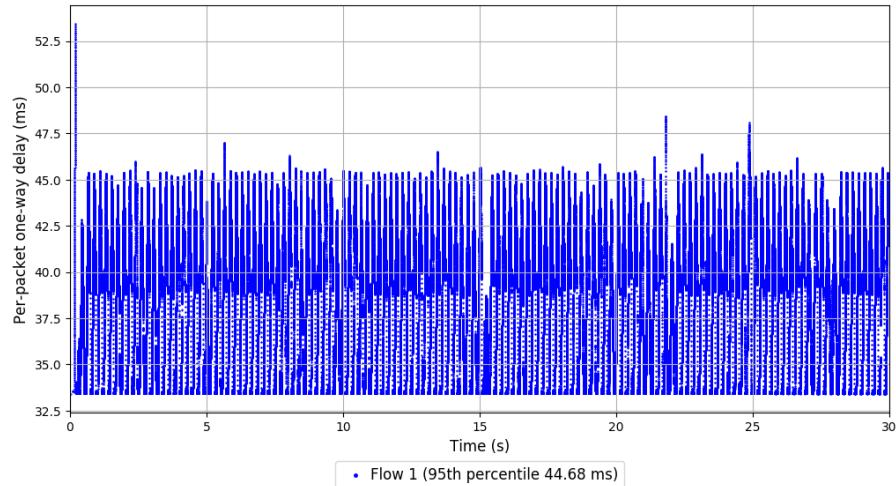
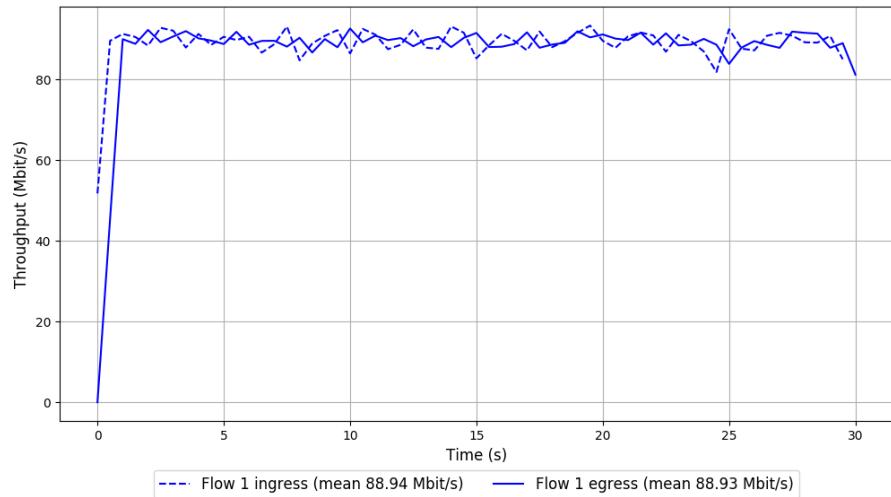


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-19 07:35:10
End at: 2019-01-19 07:35:40
Local clock offset: 0.239 ms
Remote clock offset: 0.339 ms

# Below is generated by plot.py at 2019-01-19 07:51:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.93 Mbit/s
95th percentile per-packet one-way delay: 44.678 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 88.93 Mbit/s
95th percentile per-packet one-way delay: 44.678 ms
Loss rate: 0.23%
```

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

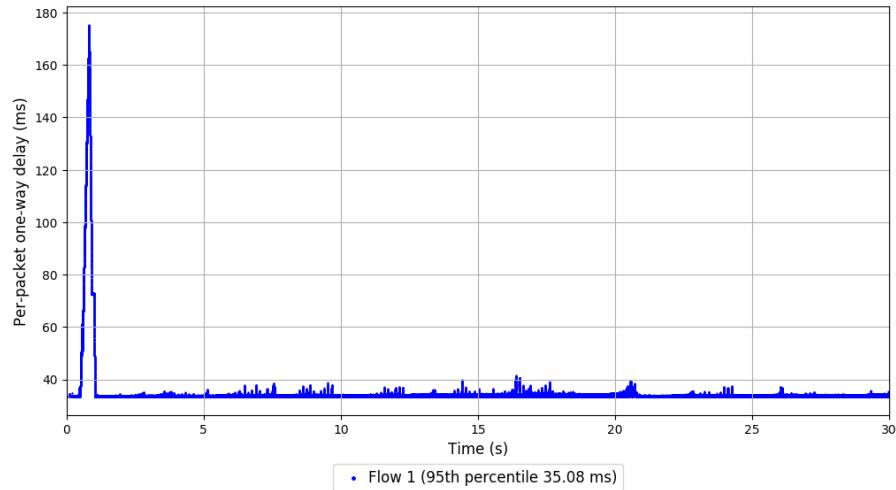
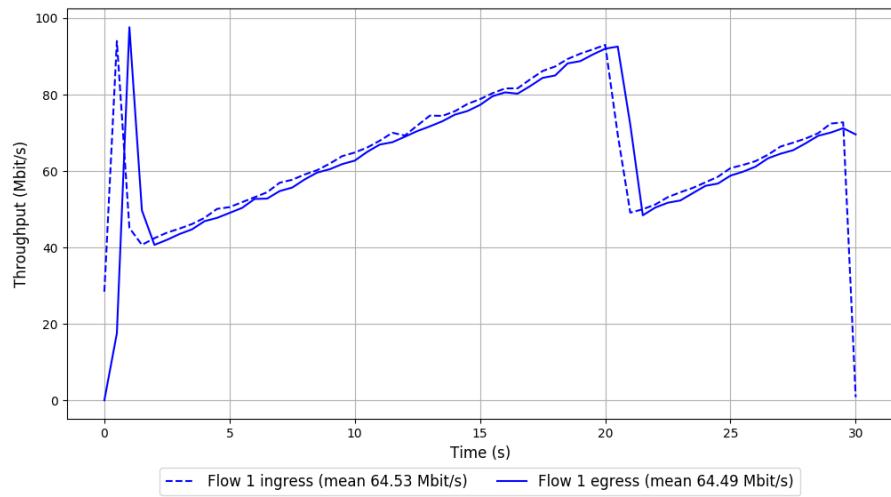


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-19 05:38:20
End at: 2019-01-19 05:38:50
Local clock offset: 0.122 ms
Remote clock offset: -2.722 ms

# Below is generated by plot.py at 2019-01-19 07:51:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.49 Mbit/s
95th percentile per-packet one-way delay: 35.084 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 64.49 Mbit/s
95th percentile per-packet one-way delay: 35.084 ms
Loss rate: 0.27%
```

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

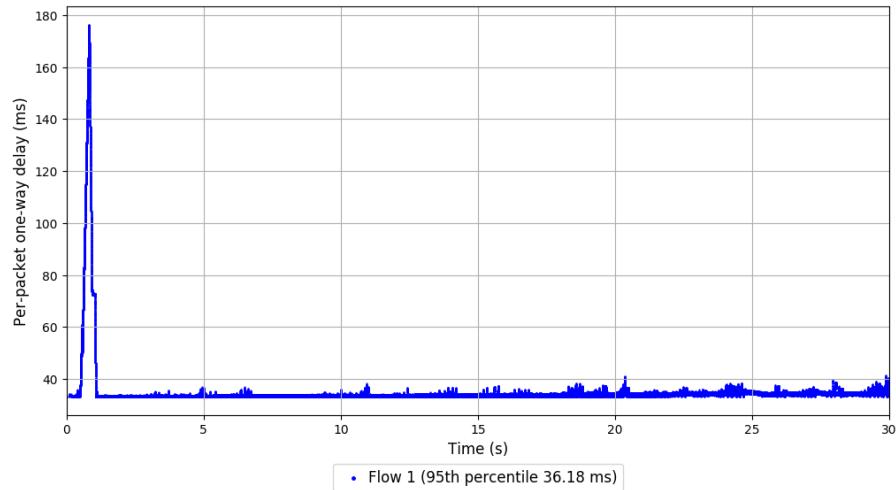
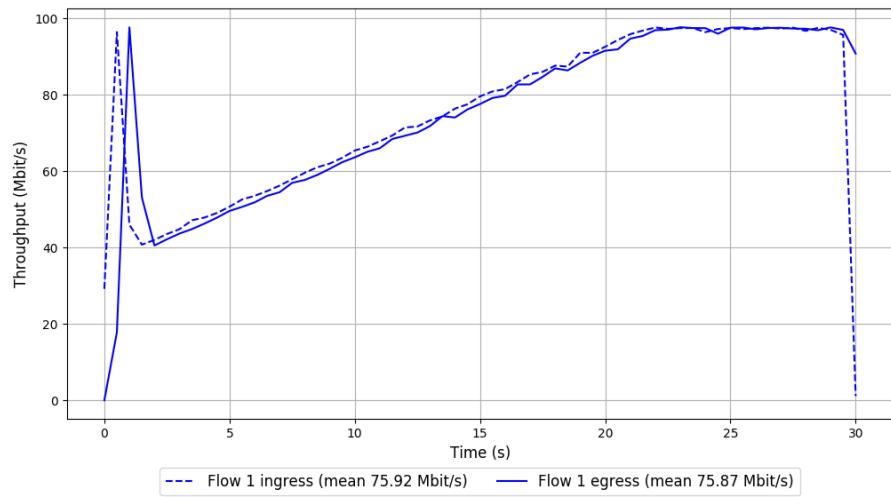


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-19 06:05:34
End at: 2019-01-19 06:06:04
Local clock offset: 0.121 ms
Remote clock offset: -0.932 ms

# Below is generated by plot.py at 2019-01-19 07:51:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.87 Mbit/s
95th percentile per-packet one-way delay: 36.180 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 75.87 Mbit/s
95th percentile per-packet one-way delay: 36.180 ms
Loss rate: 0.28%
```

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

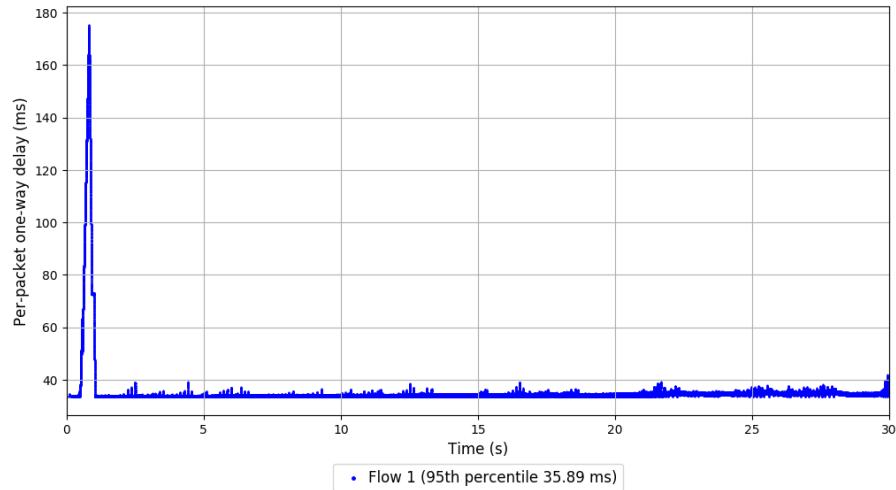
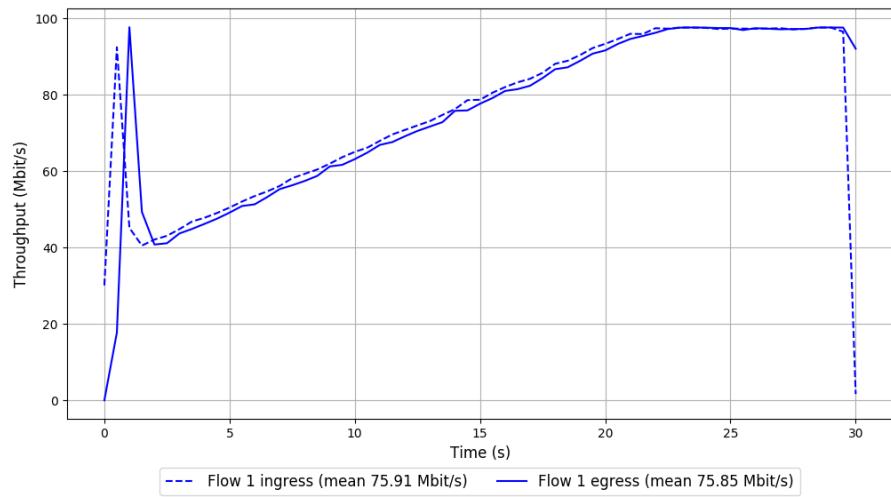


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-19 06:34:28
End at: 2019-01-19 06:34:58
Local clock offset: 0.051 ms
Remote clock offset: 0.636 ms

# Below is generated by plot.py at 2019-01-19 07:51:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.85 Mbit/s
95th percentile per-packet one-way delay: 35.888 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 75.85 Mbit/s
95th percentile per-packet one-way delay: 35.888 ms
Loss rate: 0.29%
```

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

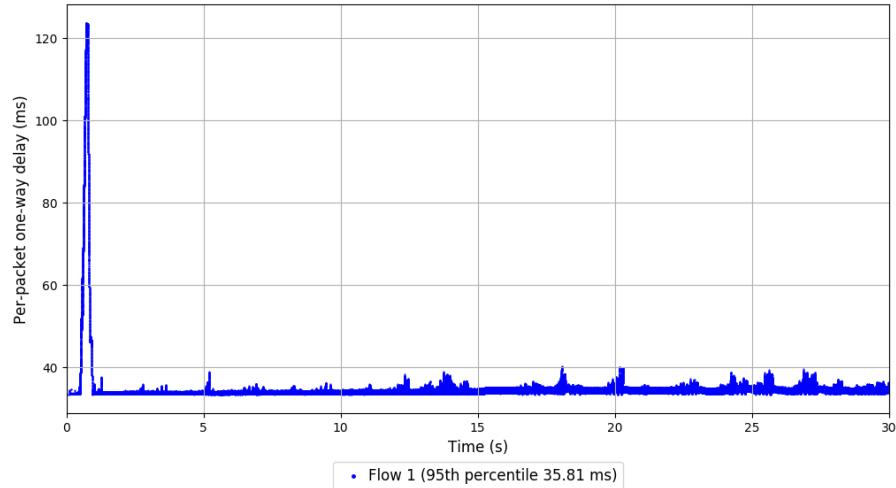
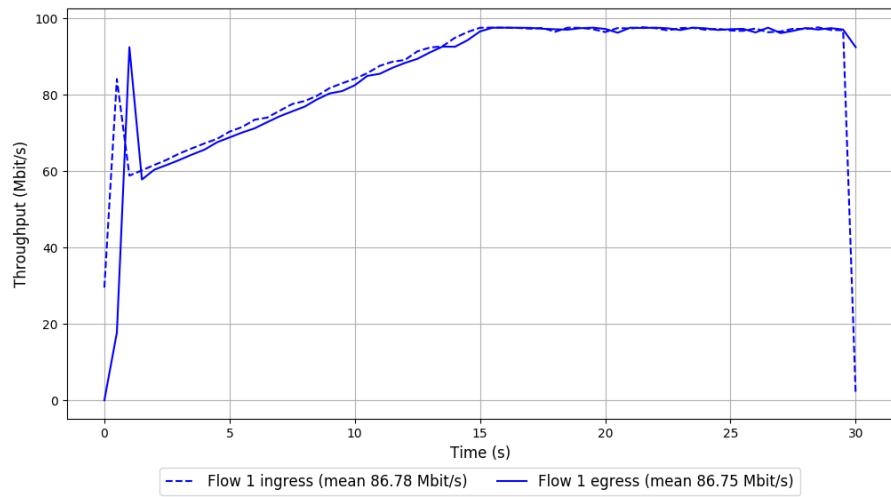


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-19 07:02:37
End at: 2019-01-19 07:03:07
Local clock offset: 0.19 ms
Remote clock offset: 0.719 ms

# Below is generated by plot.py at 2019-01-19 07:51:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.75 Mbit/s
95th percentile per-packet one-way delay: 35.815 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 86.75 Mbit/s
95th percentile per-packet one-way delay: 35.815 ms
Loss rate: 0.25%
```

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

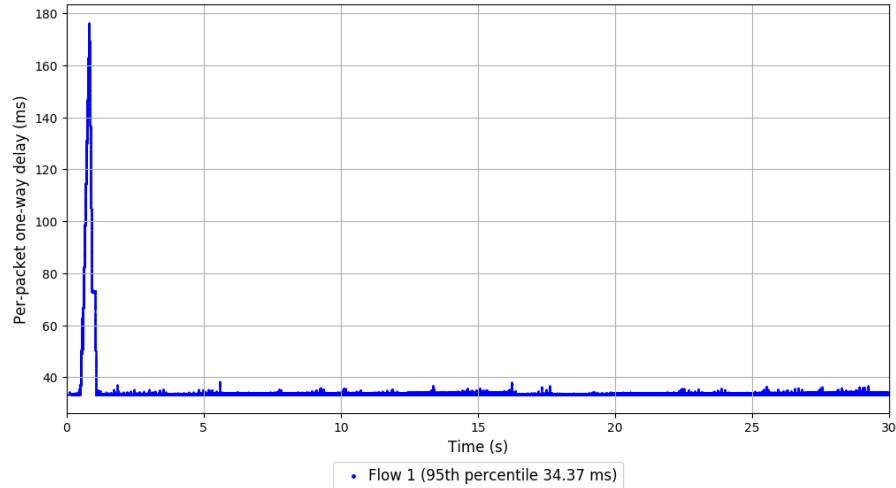
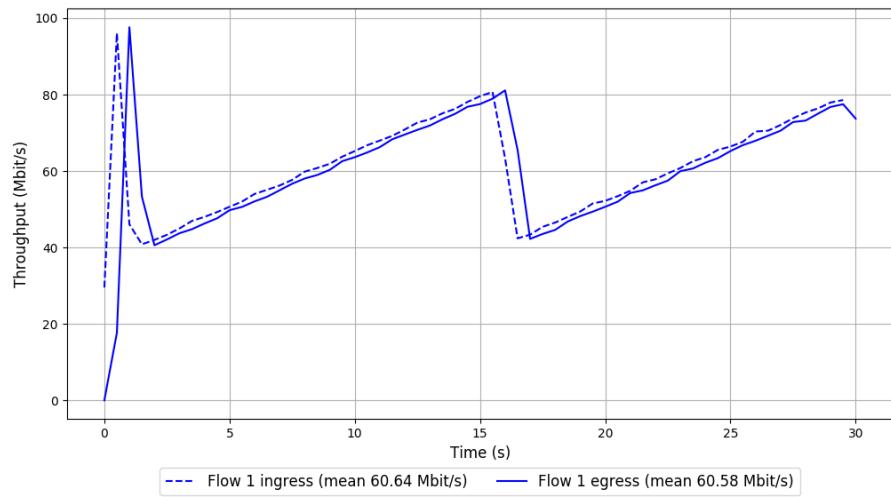


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-19 07:30:02
End at: 2019-01-19 07:30:32
Local clock offset: 0.225 ms
Remote clock offset: 0.555 ms

# Below is generated by plot.py at 2019-01-19 07:51:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.58 Mbit/s
95th percentile per-packet one-way delay: 34.365 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 60.58 Mbit/s
95th percentile per-packet one-way delay: 34.365 ms
Loss rate: 0.31%
```

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

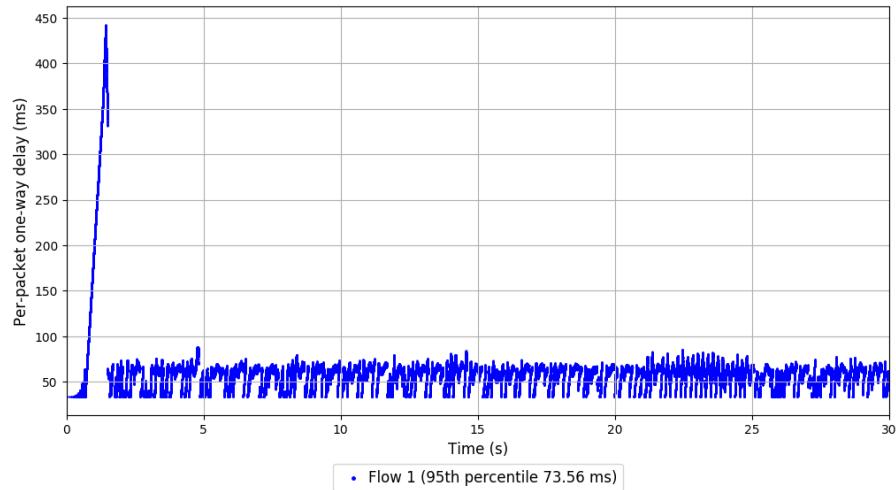
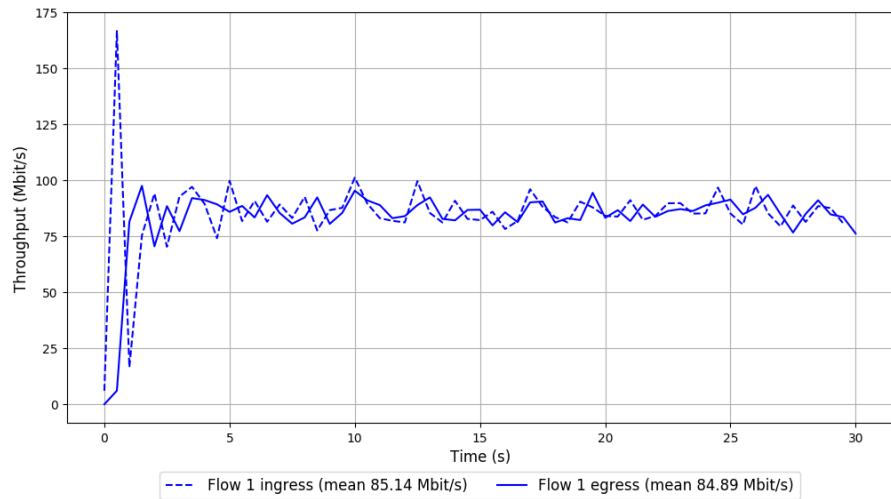


Run 1: Statistics of Verus

```
Start at: 2019-01-19 05:30:31
End at: 2019-01-19 05:31:01
Local clock offset: -0.013 ms
Remote clock offset: -3.273 ms

# Below is generated by plot.py at 2019-01-19 07:52:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.89 Mbit/s
95th percentile per-packet one-way delay: 73.558 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 84.89 Mbit/s
95th percentile per-packet one-way delay: 73.558 ms
Loss rate: 0.50%
```

Run 1: Report of Verus — Data Link

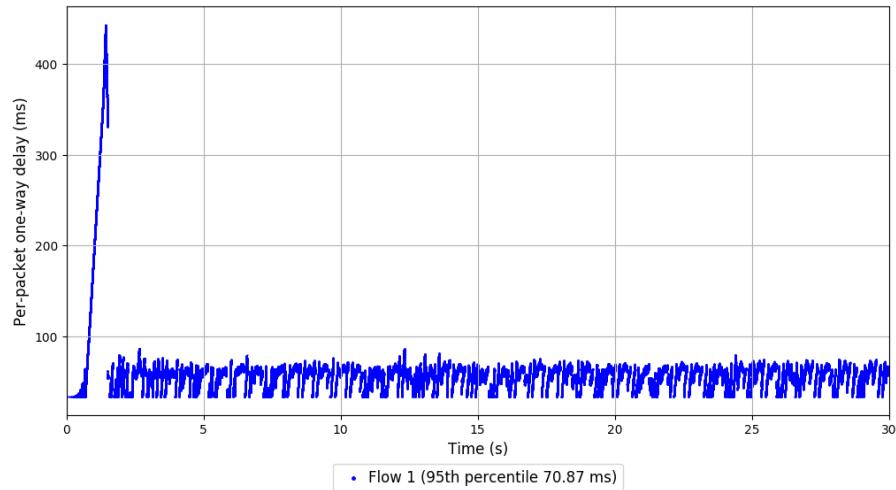
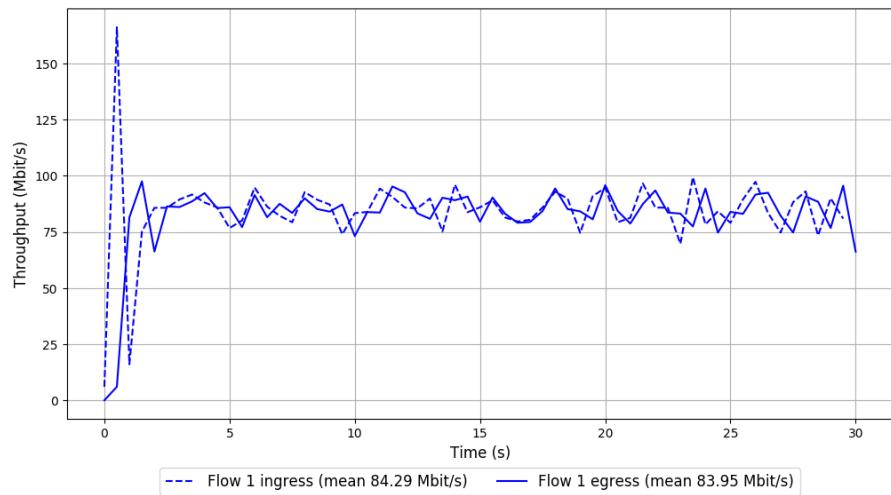


Run 2: Statistics of Verus

```
Start at: 2019-01-19 05:57:52
End at: 2019-01-19 05:58:22
Local clock offset: 0.142 ms
Remote clock offset: -1.377 ms

# Below is generated by plot.py at 2019-01-19 07:52:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.95 Mbit/s
95th percentile per-packet one-way delay: 70.866 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 83.95 Mbit/s
95th percentile per-packet one-way delay: 70.866 ms
Loss rate: 0.61%
```

Run 2: Report of Verus — Data Link

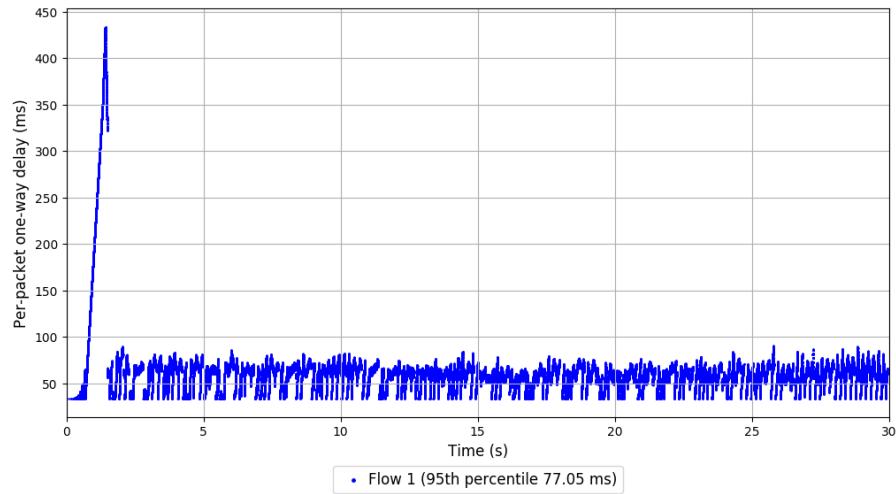
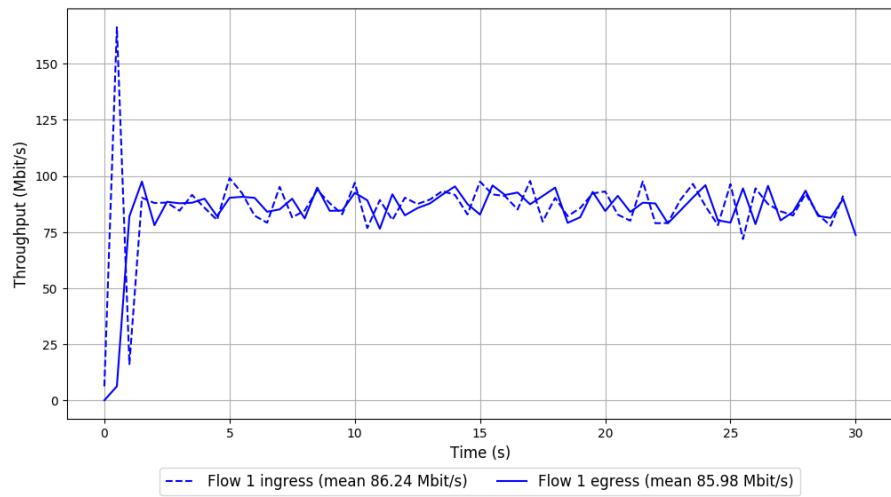


Run 3: Statistics of Verus

```
Start at: 2019-01-19 06:26:29
End at: 2019-01-19 06:26:59
Local clock offset: 0.088 ms
Remote clock offset: 0.354 ms

# Below is generated by plot.py at 2019-01-19 07:52:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.98 Mbit/s
95th percentile per-packet one-way delay: 77.052 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 85.98 Mbit/s
95th percentile per-packet one-way delay: 77.052 ms
Loss rate: 0.52%
```

Run 3: Report of Verus — Data Link

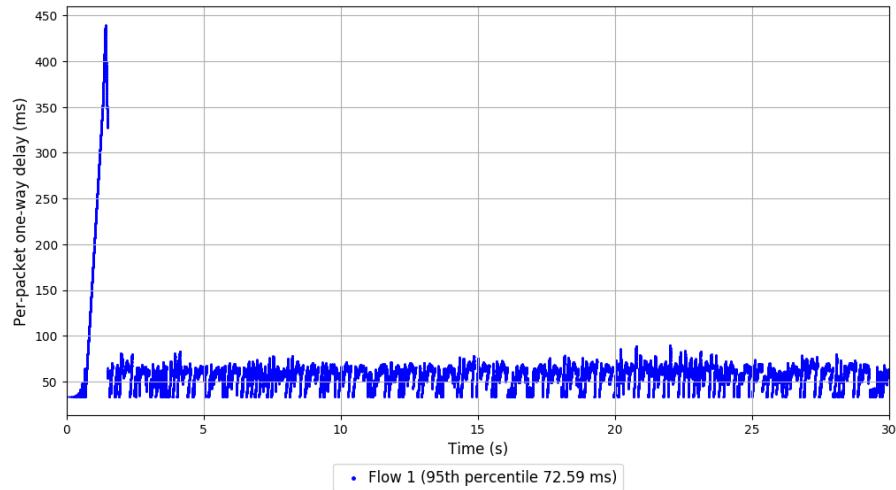
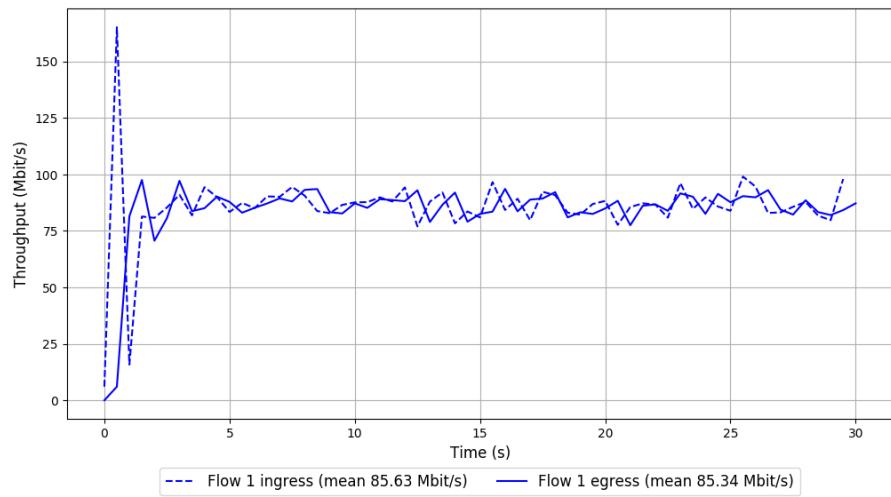


Run 4: Statistics of Verus

```
Start at: 2019-01-19 06:54:36
End at: 2019-01-19 06:55:06
Local clock offset: 0.128 ms
Remote clock offset: 0.764 ms

# Below is generated by plot.py at 2019-01-19 07:52:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.34 Mbit/s
95th percentile per-packet one-way delay: 72.588 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 85.34 Mbit/s
95th percentile per-packet one-way delay: 72.588 ms
Loss rate: 0.54%
```

## Run 4: Report of Verus — Data Link

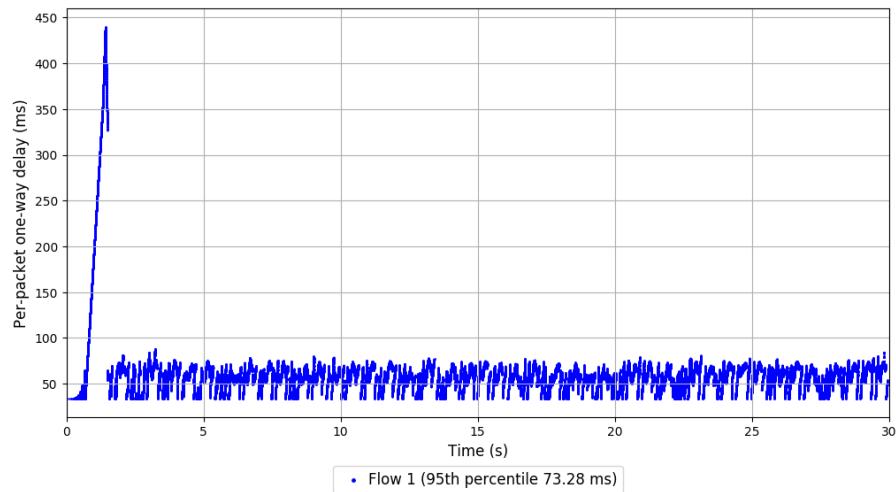
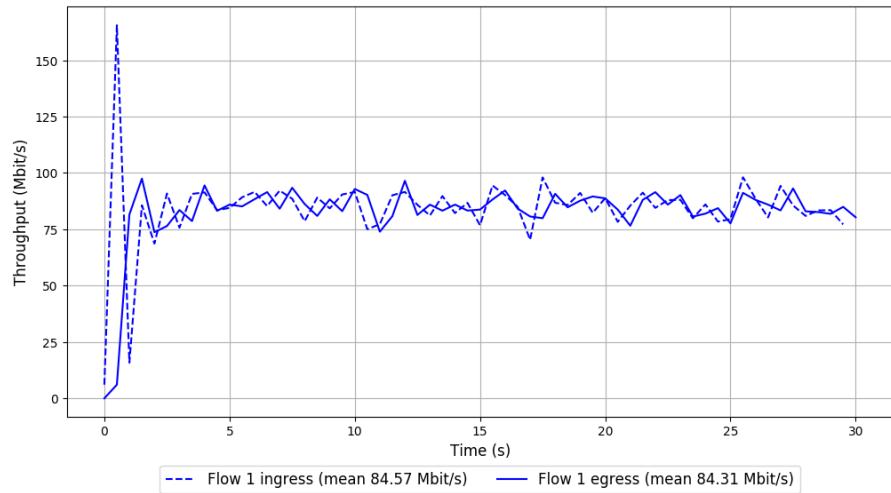


Run 5: Statistics of Verus

```
Start at: 2019-01-19 07:22:21
End at: 2019-01-19 07:22:51
Local clock offset: 0.209 ms
Remote clock offset: 0.466 ms

# Below is generated by plot.py at 2019-01-19 07:52:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.31 Mbit/s
95th percentile per-packet one-way delay: 73.280 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 84.31 Mbit/s
95th percentile per-packet one-way delay: 73.280 ms
Loss rate: 0.35%
```

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

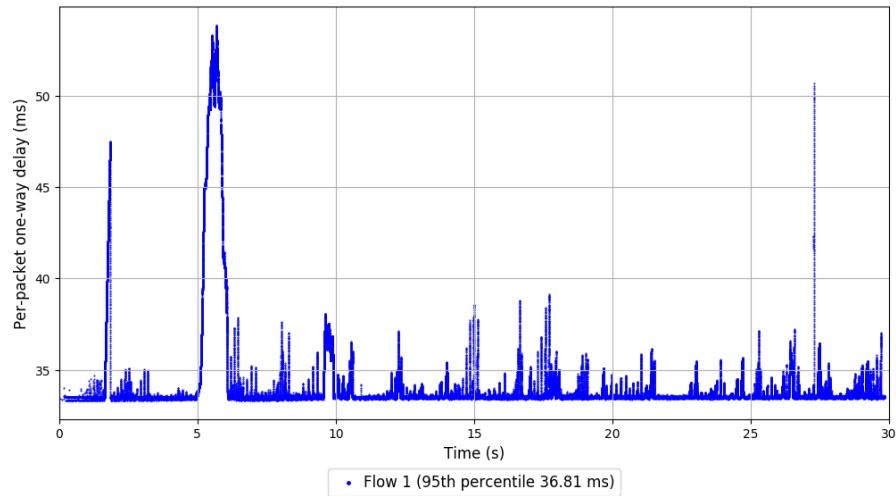
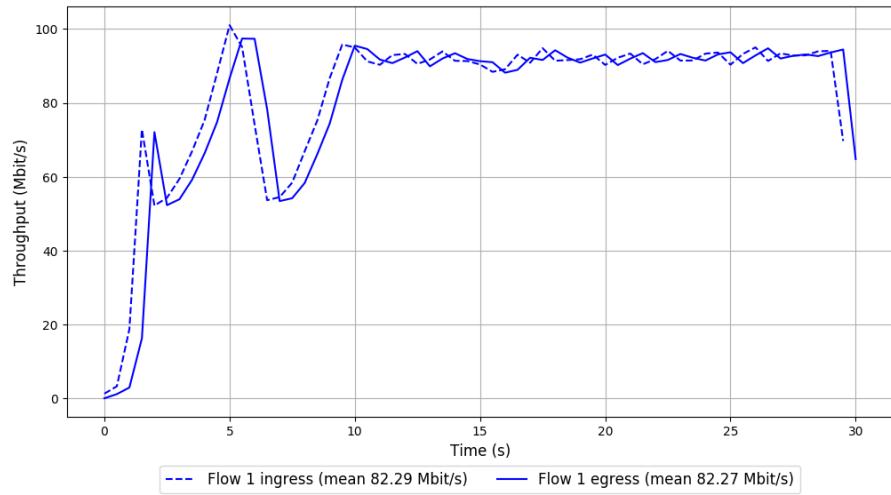


```
Run 1: Statistics of PCC-Vivace

Start at: 2019-01-19 05:39:32
End at: 2019-01-19 05:40:02
Local clock offset: 0.155 ms
Remote clock offset: -2.621 ms

# Below is generated by plot.py at 2019-01-19 07:52:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.27 Mbit/s
95th percentile per-packet one-way delay: 36.809 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 82.27 Mbit/s
95th percentile per-packet one-way delay: 36.809 ms
Loss rate: 0.24%
```

Run 1: Report of PCC-Vivace — Data Link

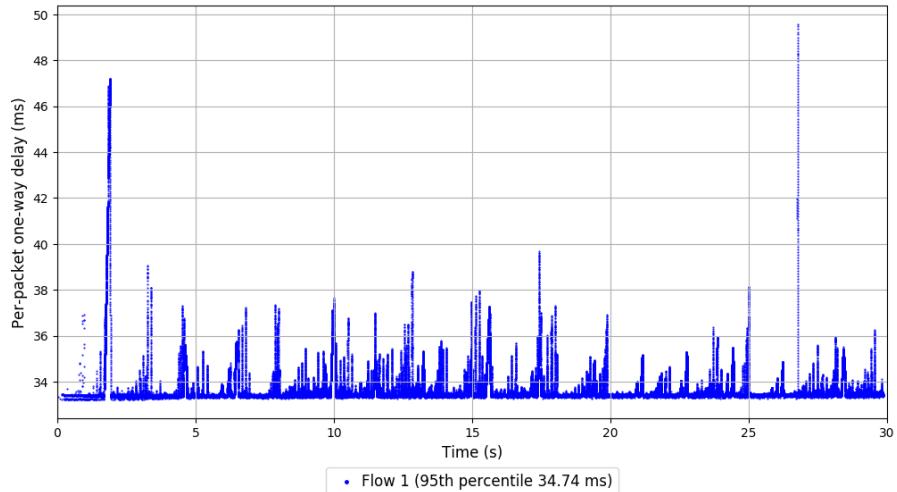
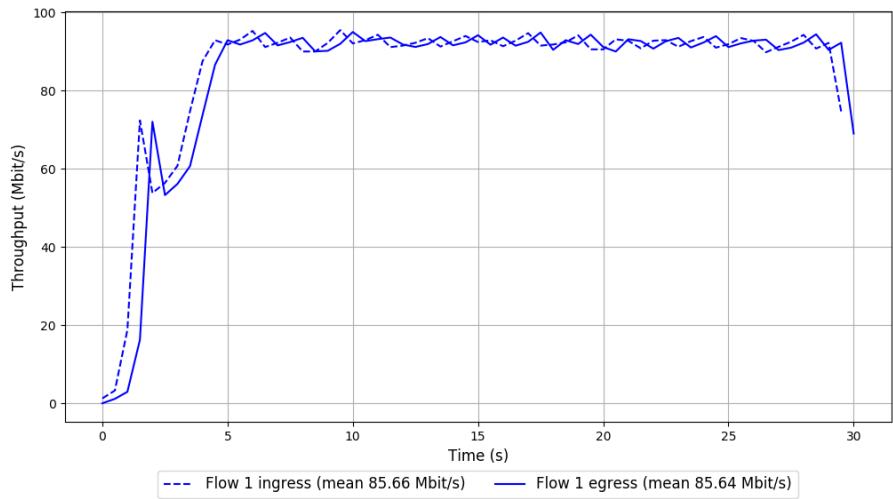


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-19 06:06:47
End at: 2019-01-19 06:07:17
Local clock offset: 0.148 ms
Remote clock offset: -0.835 ms

# Below is generated by plot.py at 2019-01-19 07:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.64 Mbit/s
95th percentile per-packet one-way delay: 34.738 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 85.64 Mbit/s
95th percentile per-packet one-way delay: 34.738 ms
Loss rate: 0.24%
```

Run 2: Report of PCC-Vivace — Data Link

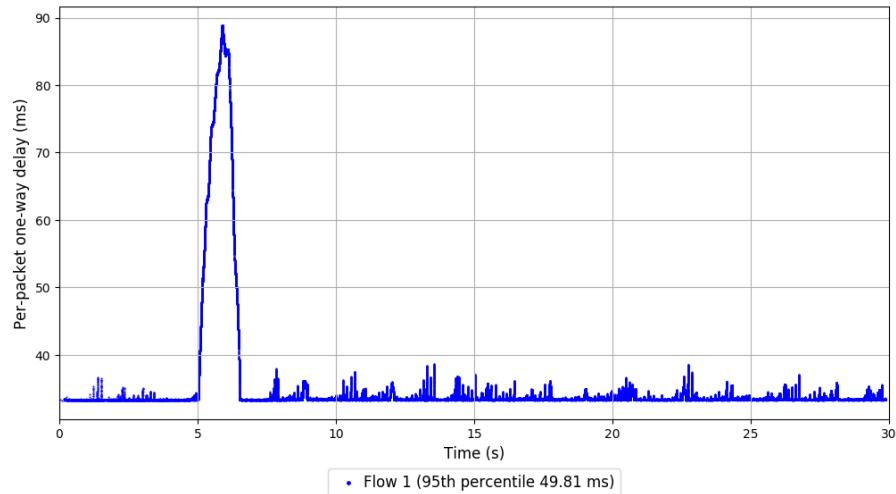
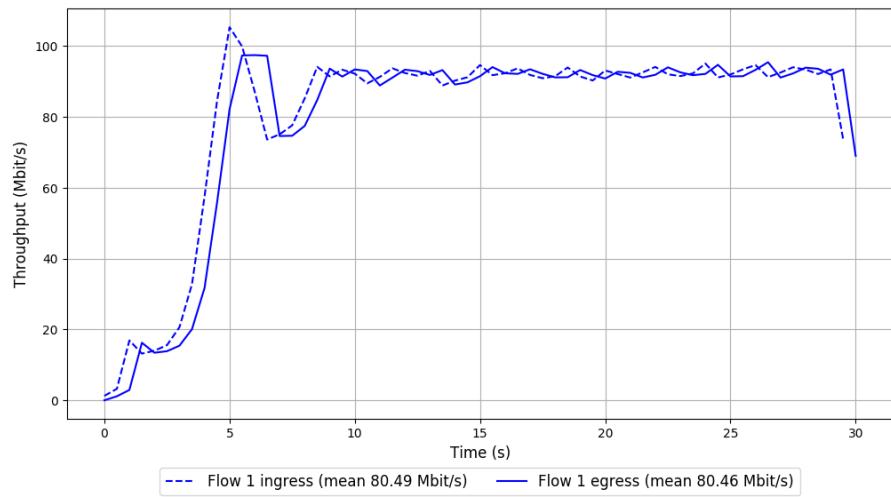


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-19 06:35:49
End at: 2019-01-19 06:36:20
Local clock offset: 0.024 ms
Remote clock offset: 0.893 ms

# Below is generated by plot.py at 2019-01-19 07:52:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.46 Mbit/s
95th percentile per-packet one-way delay: 49.809 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 80.46 Mbit/s
95th percentile per-packet one-way delay: 49.809 ms
Loss rate: 0.25%
```

Run 3: Report of PCC-Vivace — Data Link

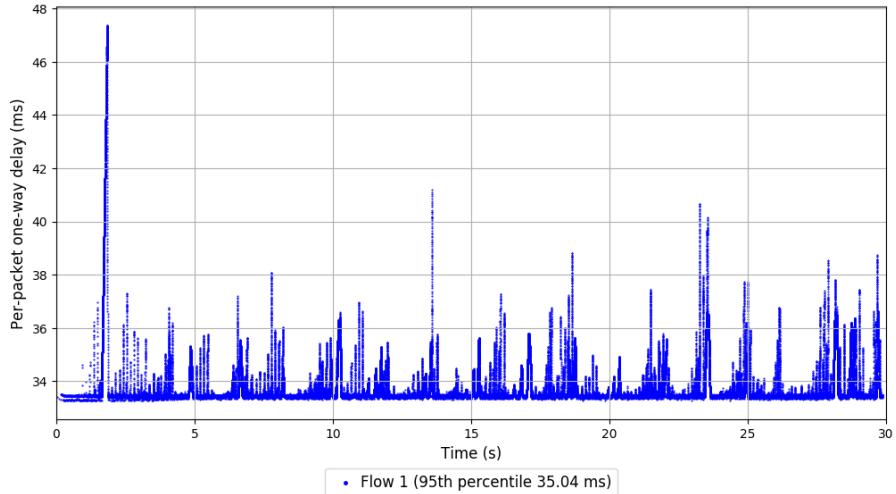
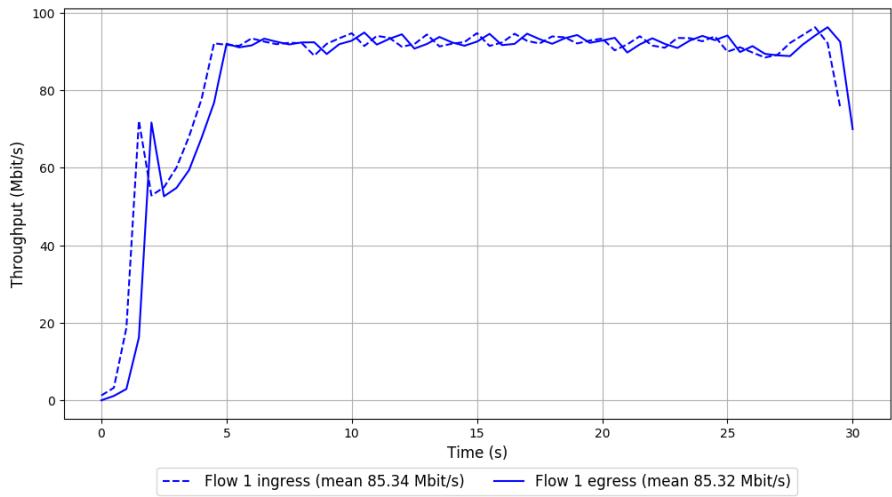


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-19 07:04:04
End at: 2019-01-19 07:04:34
Local clock offset: 0.2 ms
Remote clock offset: 0.673 ms

# Below is generated by plot.py at 2019-01-19 07:52:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.32 Mbit/s
95th percentile per-packet one-way delay: 35.043 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 85.32 Mbit/s
95th percentile per-packet one-way delay: 35.043 ms
Loss rate: 0.23%
```

Run 4: Report of PCC-Vivace — Data Link

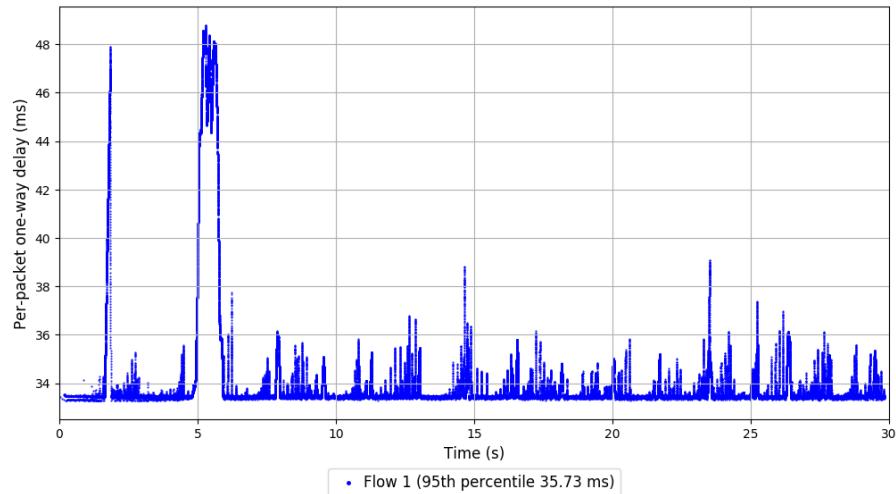
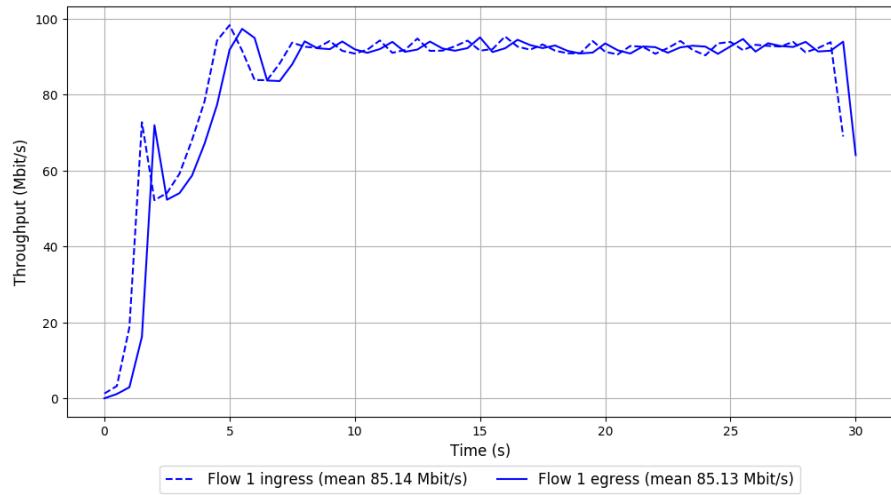


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-19 07:31:14
End at: 2019-01-19 07:31:44
Local clock offset: 0.238 ms
Remote clock offset: 0.489 ms

# Below is generated by plot.py at 2019-01-19 07:52:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.13 Mbit/s
95th percentile per-packet one-way delay: 35.731 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 85.13 Mbit/s
95th percentile per-packet one-way delay: 35.731 ms
Loss rate: 0.23%
```

Run 5: Report of PCC-Vivace — Data Link

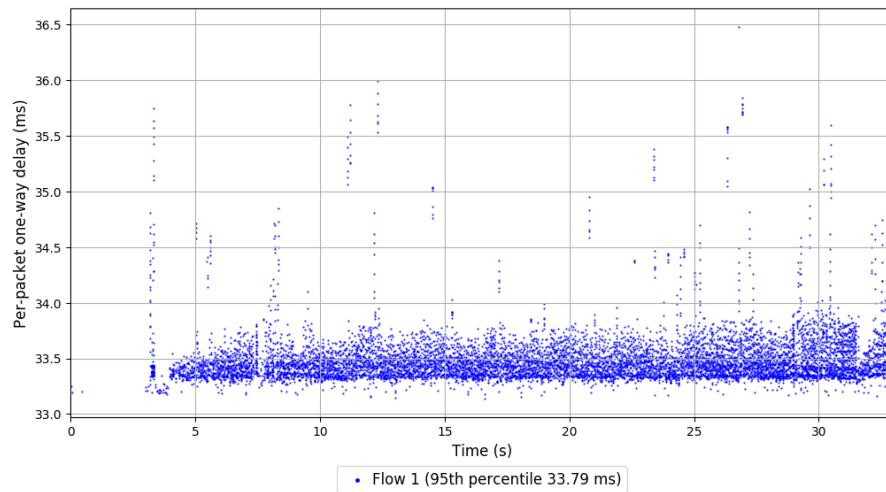
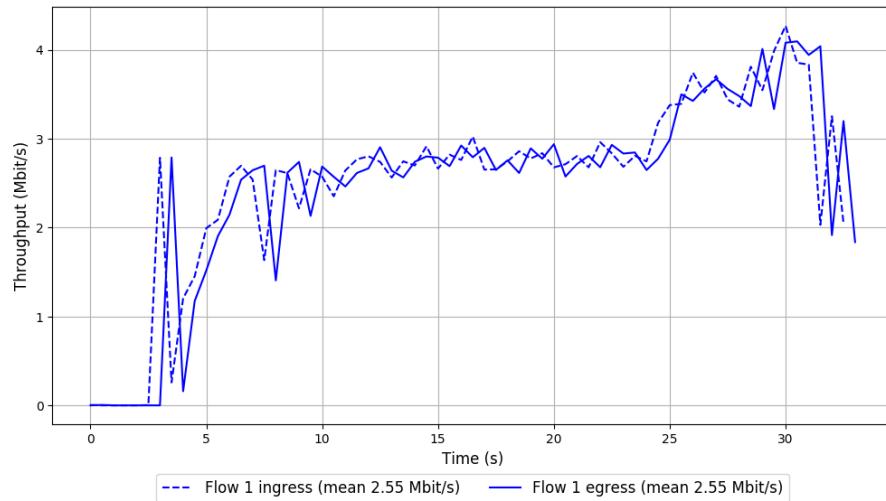


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-19 05:21:02
End at: 2019-01-19 05:21:32
Local clock offset: -0.471 ms
Remote clock offset: -3.74 ms

# Below is generated by plot.py at 2019-01-19 07:52:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 33.791 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 33.791 ms
Loss rate: 0.35%
```

Run 1: Report of WebRTC media — Data Link

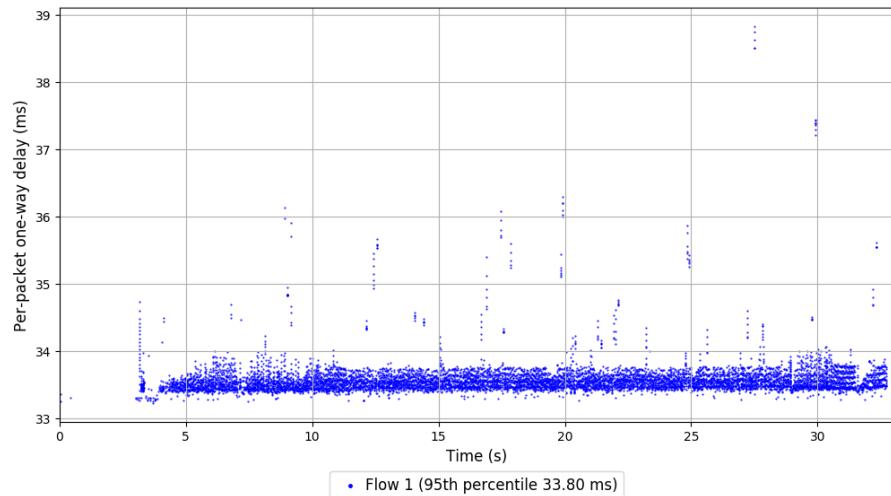
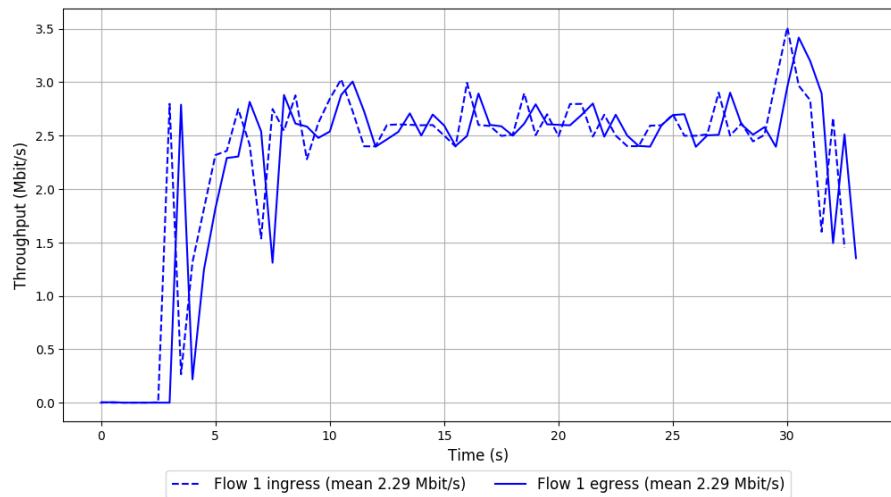


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-19 05:48:41
End at: 2019-01-19 05:49:11
Local clock offset: 0.18 ms
Remote clock offset: -1.955 ms

# Below is generated by plot.py at 2019-01-19 07:52:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 33.802 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 33.802 ms
Loss rate: 0.26%
```

### Run 2: Report of WebRTC media — Data Link

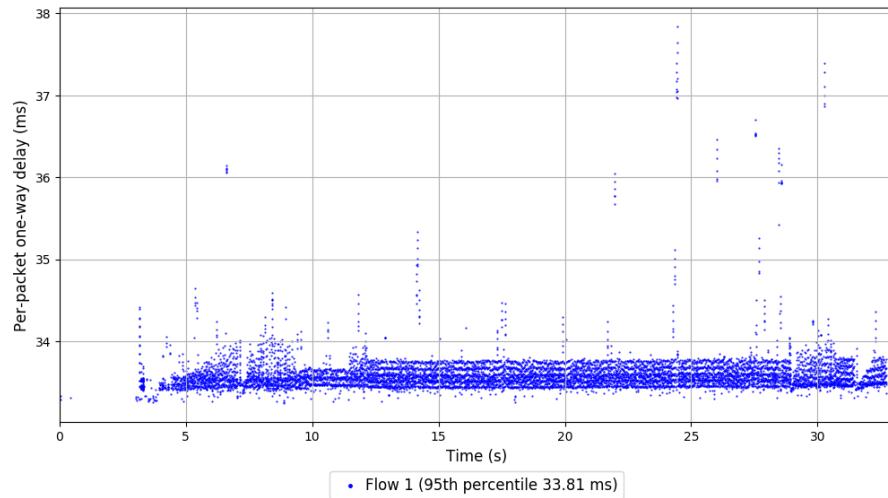
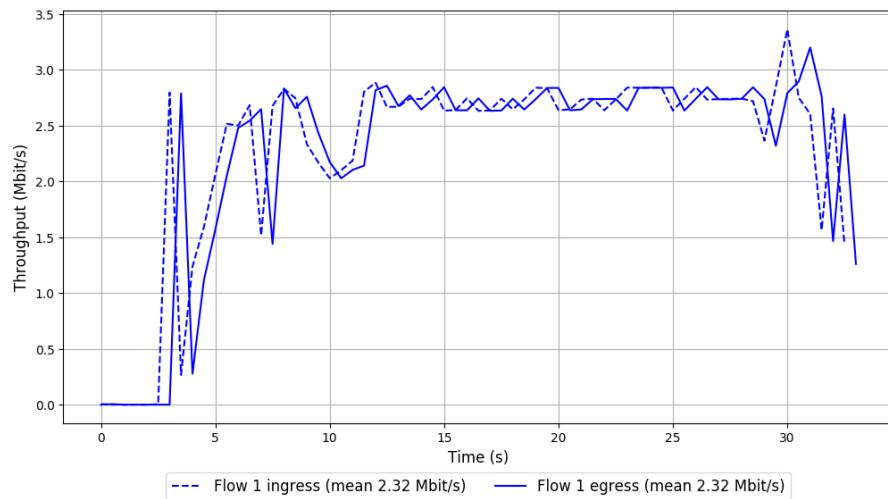


```
Run 3: Statistics of WebRTC media

Start at: 2019-01-19 06:16:31
End at: 2019-01-19 06:17:01
Local clock offset: 0.178 ms
Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2019-01-19 07:52:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 33.811 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 33.811 ms
Loss rate: 0.24%
```

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

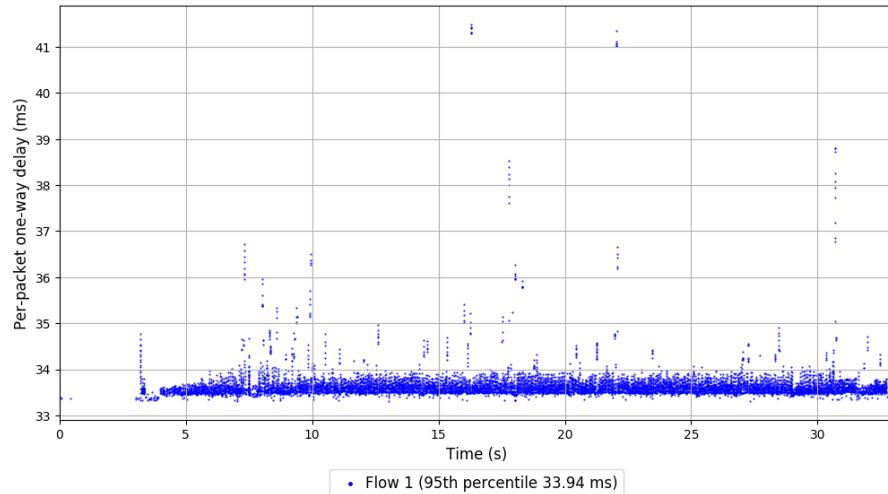
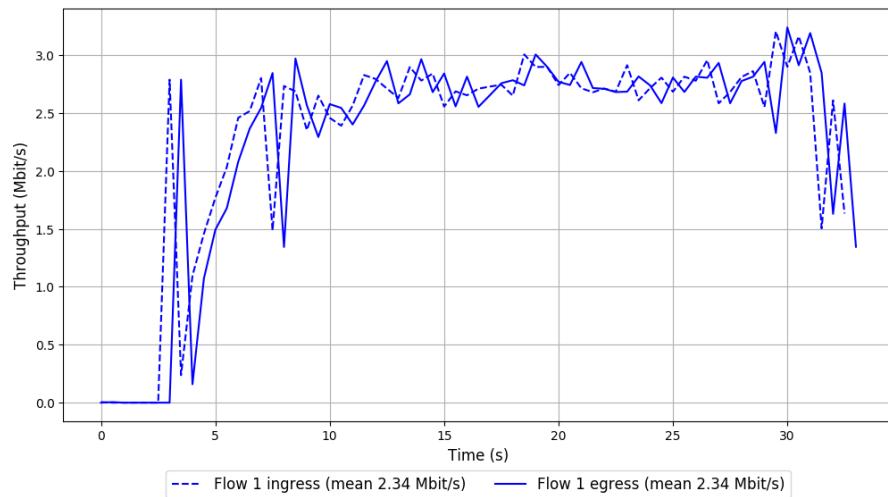


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-19 06:45:20
End at: 2019-01-19 06:45:50
Local clock offset: 0.033 ms
Remote clock offset: 0.787 ms

# Below is generated by plot.py at 2019-01-19 07:52:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 33.941 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 33.941 ms
Loss rate: 0.25%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-19 07:13:06
End at: 2019-01-19 07:13:36
Local clock offset: 0.207 ms
Remote clock offset: 0.618 ms

# Below is generated by plot.py at 2019-01-19 07:52:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 33.865 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 33.865 ms
Loss rate: 0.20%
```

Run 5: Report of WebRTC media — Data Link

