

## Pantheon Report

Generated at 2019-01-19 09:40:42 (UTC).  
Data path: GCE London on `ens4` (*remote*) → GCE Sydney on `ens4` (*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.google.com` and have been applied to correct the timestamps in logs.

System info:

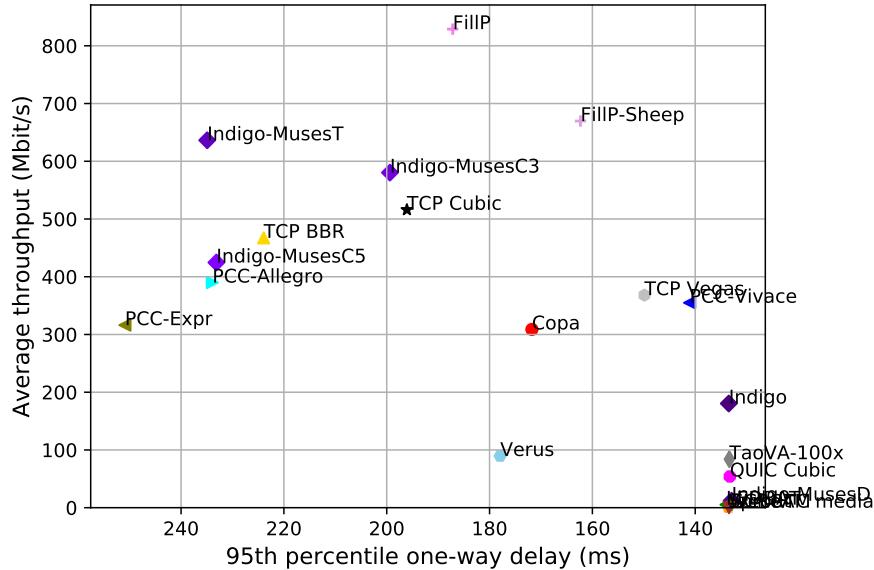
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

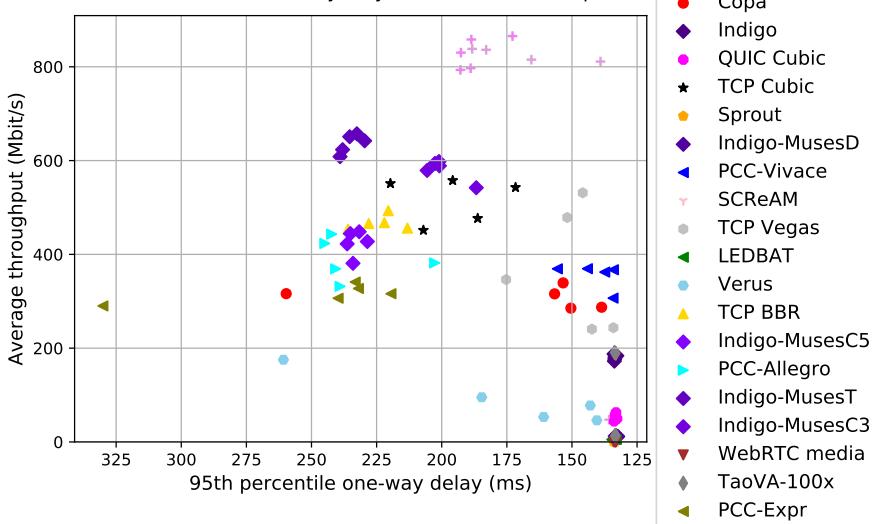
```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefe166e1afe2170
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE London to GCE Sydney, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from GCE London to GCE Sydney, 5 runs of 30s each per scheme



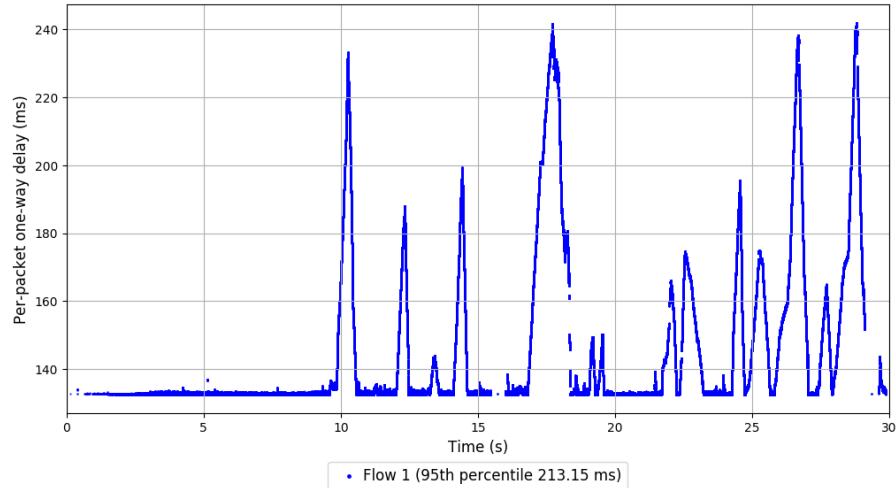
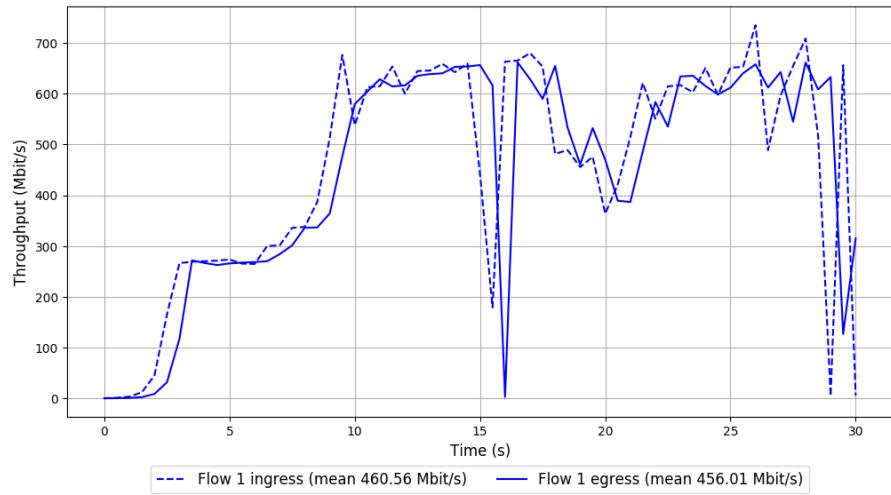
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	467.31	223.94	1.49
Copa	5	308.76	171.76	0.96
TCP Cubic	5	516.00	196.08	1.13
FillP	5	828.85	187.16	2.47
FillP-Sheep	5	669.68	162.32	1.31
Indigo	5	180.42	133.47	0.89
Indigo-MusesC3	5	580.35	199.38	1.36
Indigo-MusesC5	5	424.67	233.14	8.12
Indigo-MusesD	5	12.04	132.93	1.53
Indigo-MusesT	5	636.39	234.92	8.39
LEDBAT	5	5.24	134.01	1.79
PCC-Allegro	5	389.87	233.91	3.21
PCC-Expr	5	316.18	250.92	5.98
QUIC Cubic	5	54.07	133.27	1.42
SCReAM	5	0.16	132.92	0.86
Sprout	5	0.62	133.56	1.09
TaoVA-100x	5	83.91	133.36	0.89
TCP Vegas	5	368.09	149.88	0.94
Verus	5	89.56	177.94	1.47
PCC-Vivace	5	354.94	141.09	1.27
WebRTC media	4	0.05	133.43	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-19 05:07:31
End at: 2019-01-19 05:08:01
Local clock offset: 0.101 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-01-19 08:09:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 456.01 Mbit/s
95th percentile per-packet one-way delay: 213.153 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 456.01 Mbit/s
95th percentile per-packet one-way delay: 213.153 ms
Loss rate: 1.87%
```

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

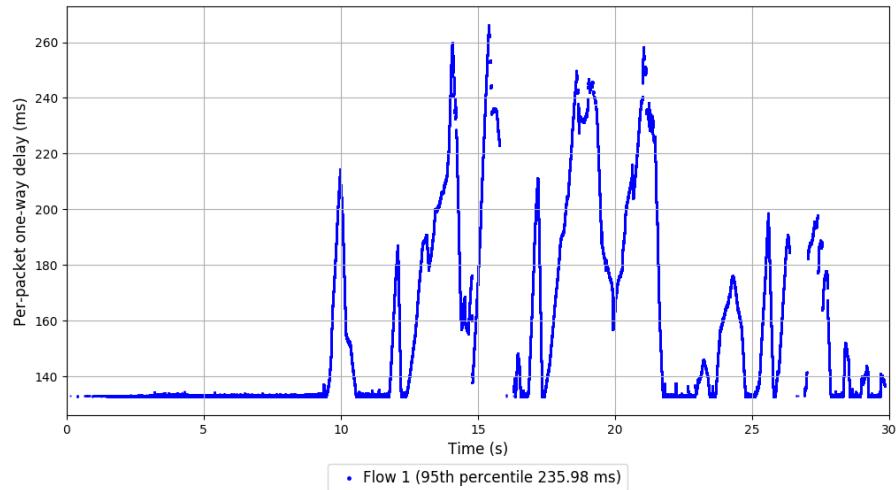
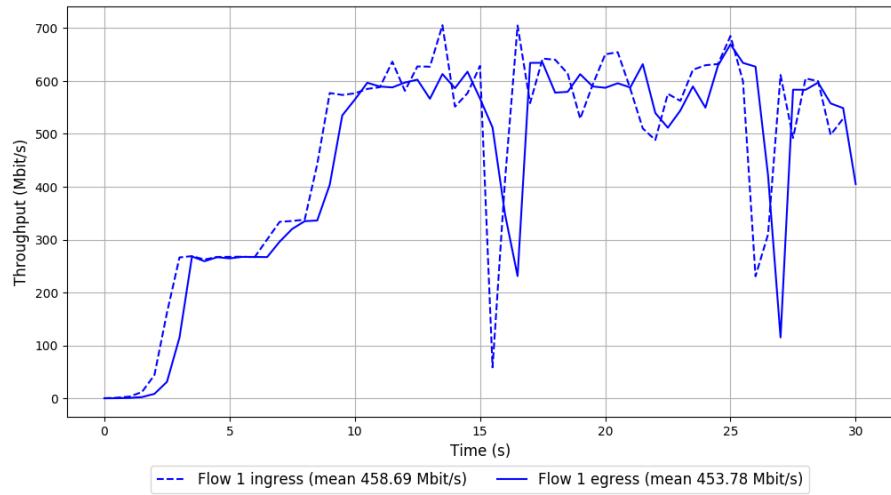


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-19 05:40:25
End at: 2019-01-19 05:40:55
Local clock offset: -0.271 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-01-19 08:09:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 453.78 Mbit/s
95th percentile per-packet one-way delay: 235.979 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 453.78 Mbit/s
95th percentile per-packet one-way delay: 235.979 ms
Loss rate: 1.95%
```

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

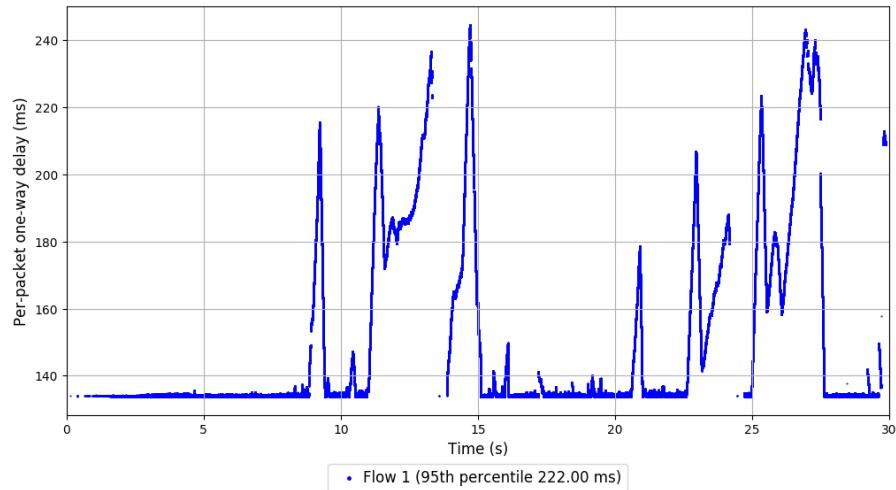
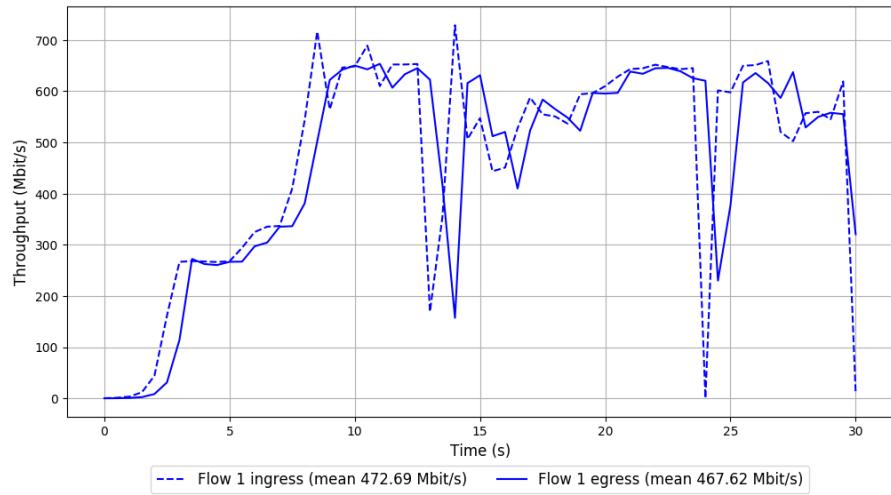


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-19 06:13:50
End at: 2019-01-19 06:14:20
Local clock offset: 0.513 ms
Remote clock offset: -0.491 ms

# Below is generated by plot.py at 2019-01-19 08:10:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 467.62 Mbit/s
95th percentile per-packet one-way delay: 222.004 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 467.62 Mbit/s
95th percentile per-packet one-way delay: 222.004 ms
Loss rate: 1.96%
```

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

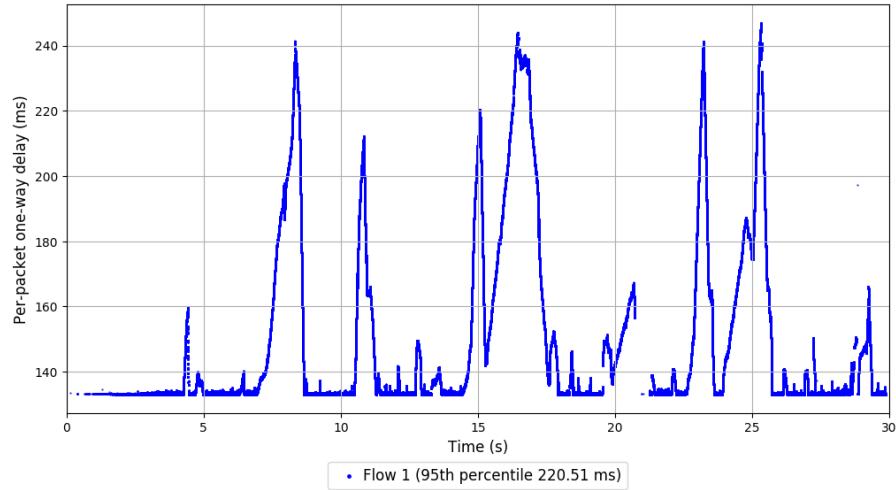
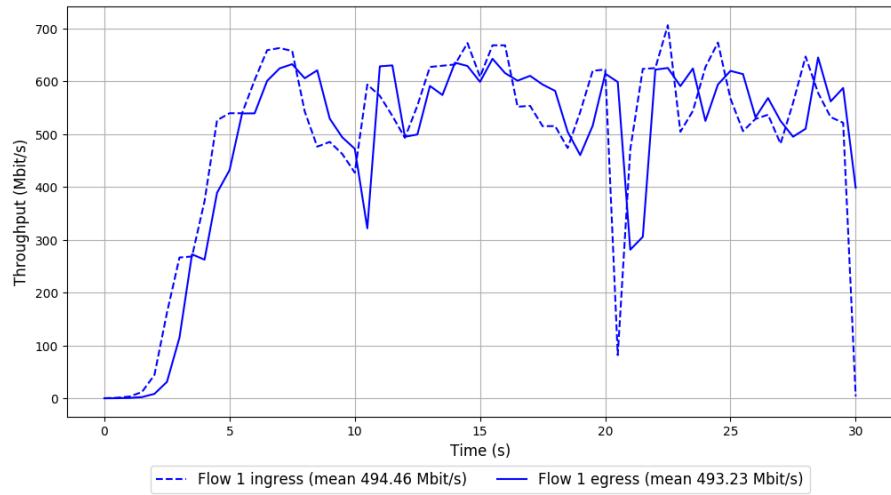


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-19 06:48:12
End at: 2019-01-19 06:48:42
Local clock offset: 0.174 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-01-19 08:10:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 493.23 Mbit/s
95th percentile per-packet one-way delay: 220.513 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 493.23 Mbit/s
95th percentile per-packet one-way delay: 220.513 ms
Loss rate: 1.14%
```

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

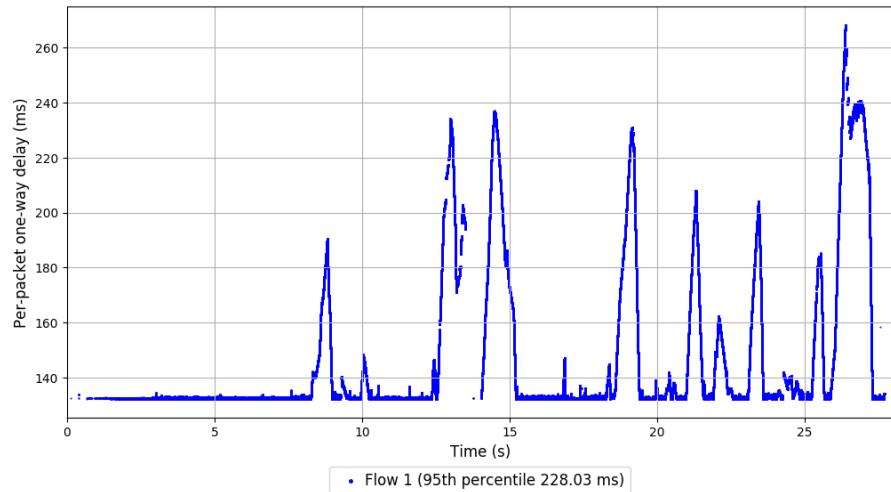
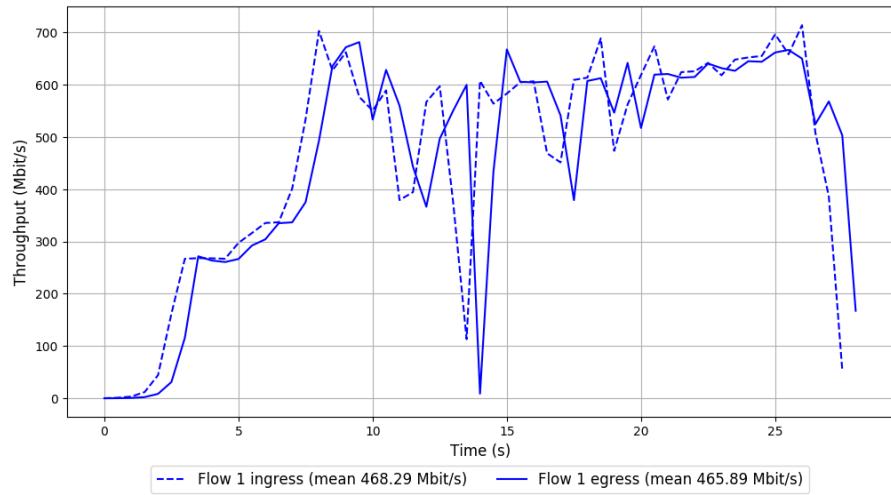


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-19 07:22:35
End at: 2019-01-19 07:23:05
Local clock offset: -0.47 ms
Remote clock offset: 0.231 ms

# Below is generated by plot.py at 2019-01-19 08:10:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 465.89 Mbit/s
95th percentile per-packet one-way delay: 228.035 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 465.89 Mbit/s
95th percentile per-packet one-way delay: 228.035 ms
Loss rate: 0.51%
```

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

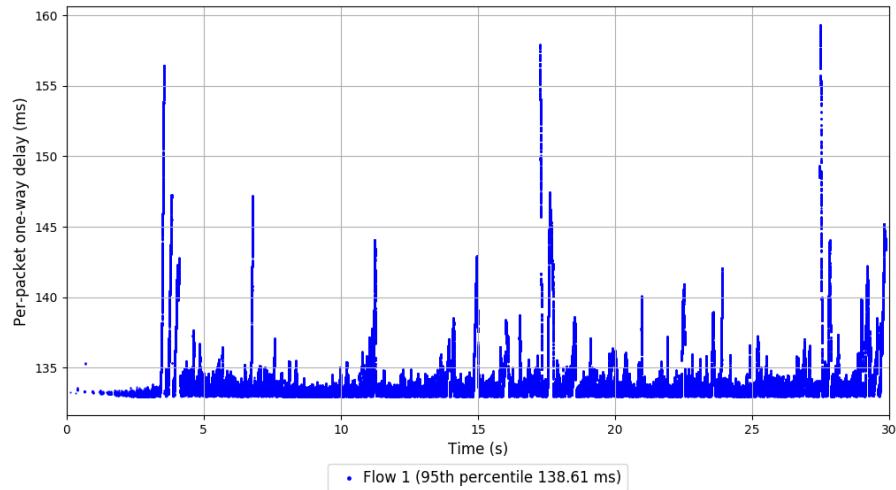
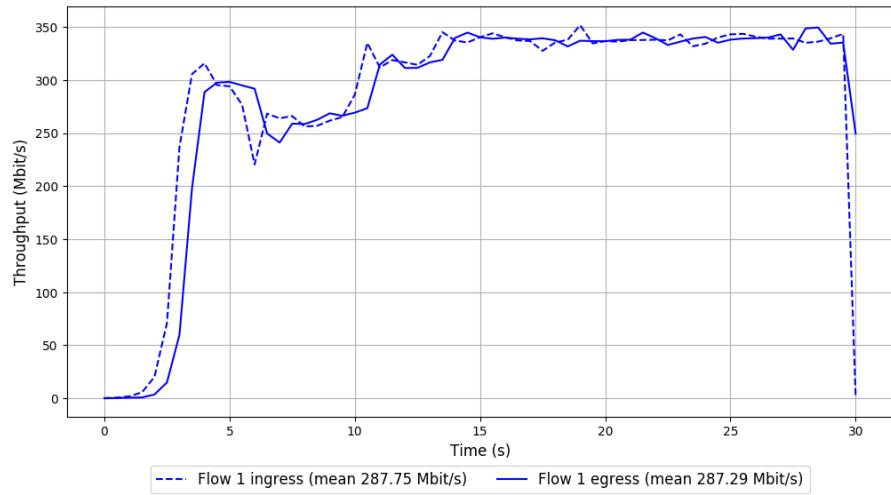


Run 1: Statistics of Copa

```
Start at: 2019-01-19 05:24:35
End at: 2019-01-19 05:25:05
Local clock offset: -0.437 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-01-19 08:10:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 287.29 Mbit/s
95th percentile per-packet one-way delay: 138.614 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 287.29 Mbit/s
95th percentile per-packet one-way delay: 138.614 ms
Loss rate: 1.04%
```

## Run 1: Report of Copa — Data Link

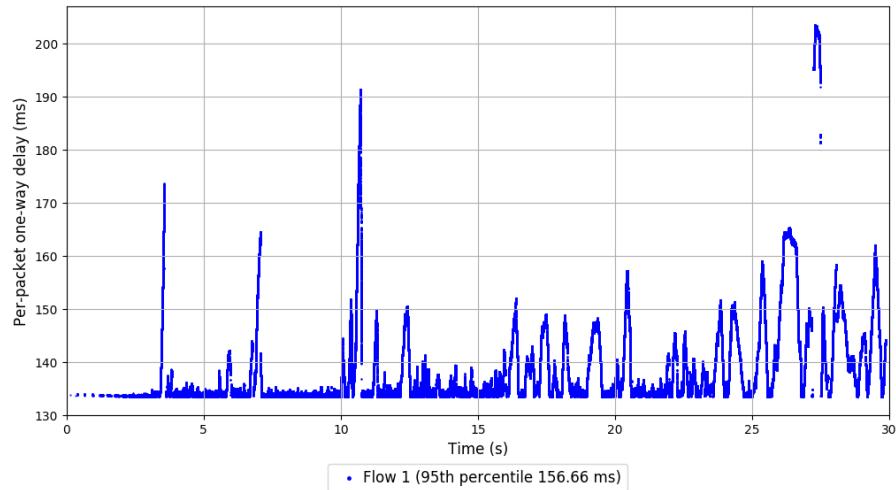
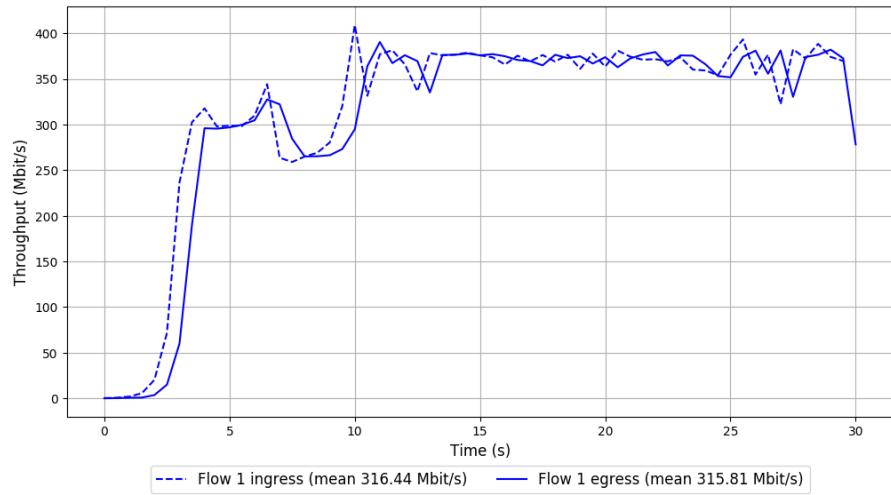


Run 2: Statistics of Copa

```
Start at: 2019-01-19 05:58:32
End at: 2019-01-19 05:59:02
Local clock offset: 0.153 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-01-19 08:11:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.81 Mbit/s
95th percentile per-packet one-way delay: 156.661 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 315.81 Mbit/s
95th percentile per-packet one-way delay: 156.661 ms
Loss rate: 1.09%
```

## Run 2: Report of Copa — Data Link

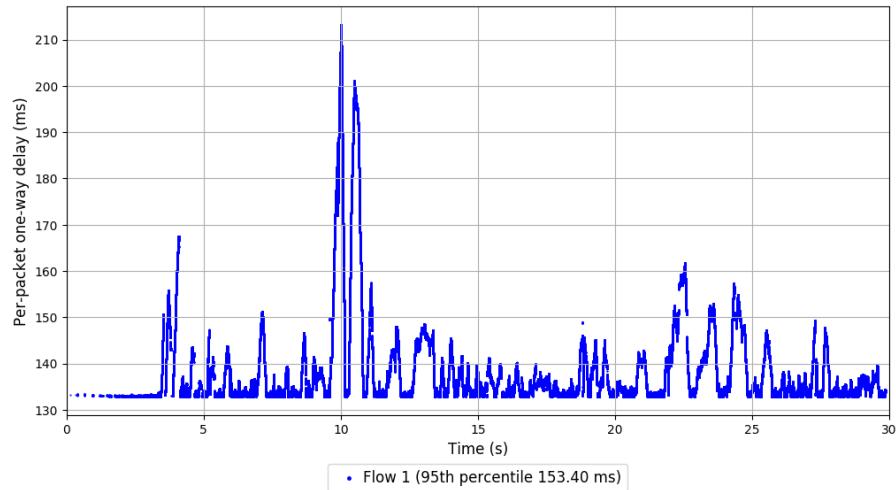
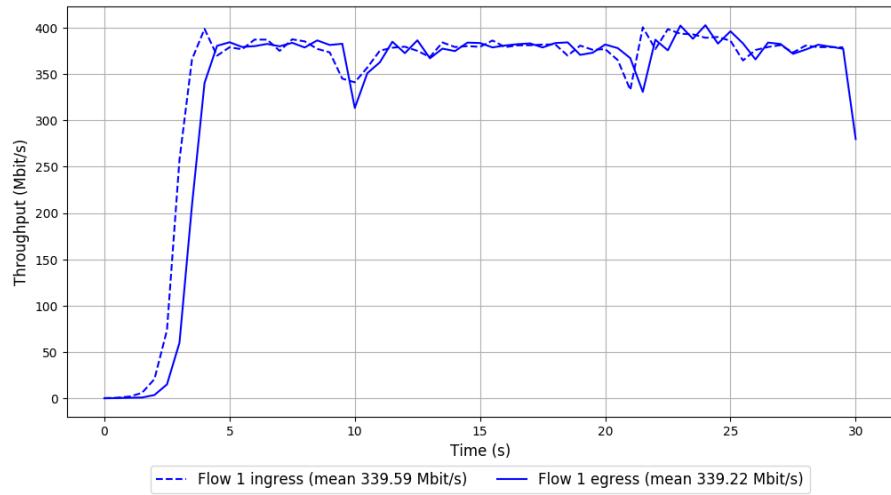


Run 3: Statistics of Copa

```
Start at: 2019-01-19 06:32:24
End at: 2019-01-19 06:32:54
Local clock offset: -0.073 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-01-19 08:12:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.22 Mbit/s
95th percentile per-packet one-way delay: 153.396 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 339.22 Mbit/s
95th percentile per-packet one-way delay: 153.396 ms
Loss rate: 0.99%
```

### Run 3: Report of Copa — Data Link

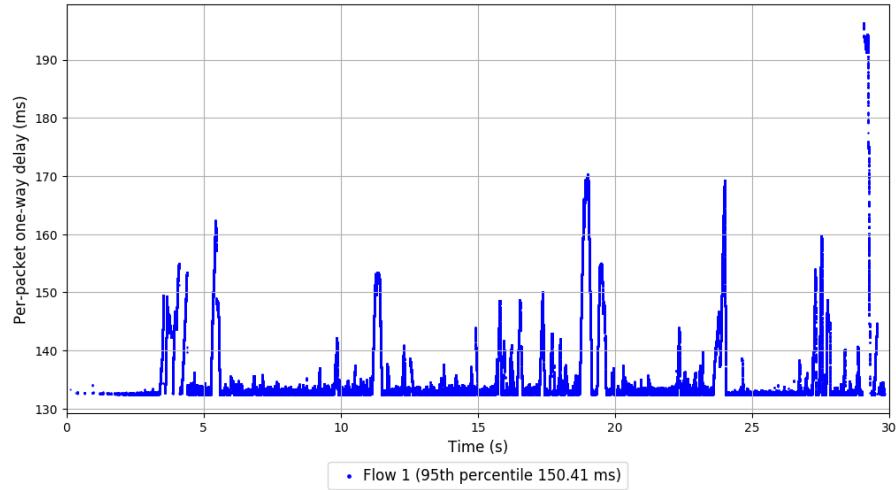
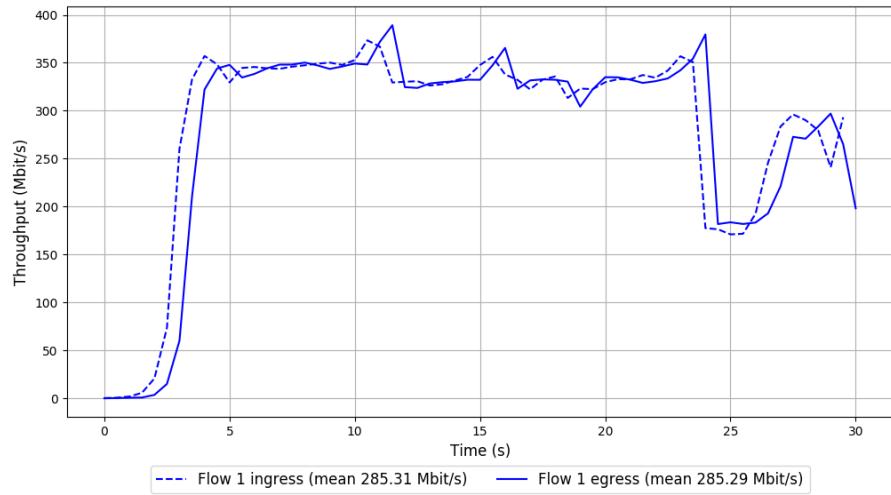


Run 4: Statistics of Copa

```
Start at: 2019-01-19 07:07:14
End at: 2019-01-19 07:07:44
Local clock offset: -0.306 ms
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2019-01-19 08:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.29 Mbit/s
95th percentile per-packet one-way delay: 150.415 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 285.29 Mbit/s
95th percentile per-packet one-way delay: 150.415 ms
Loss rate: 0.89%
```

## Run 4: Report of Copa — Data Link

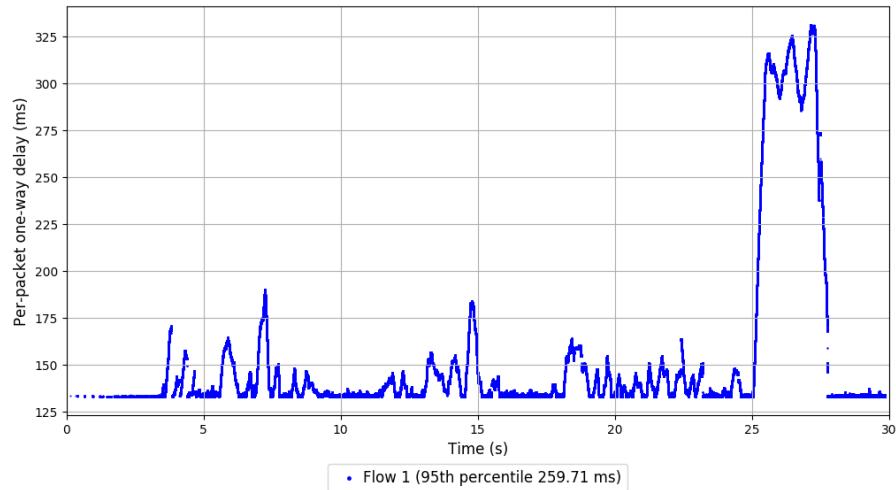
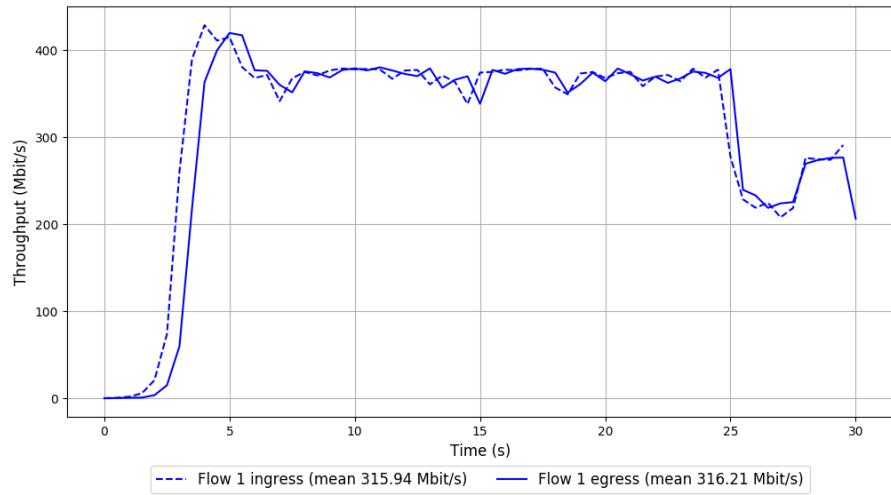


Run 5: Statistics of Copa

```
Start at: 2019-01-19 07:41:20
End at: 2019-01-19 07:41:50
Local clock offset: -0.134 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-01-19 08:21:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 316.21 Mbit/s
95th percentile per-packet one-way delay: 259.713 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 316.21 Mbit/s
95th percentile per-packet one-way delay: 259.713 ms
Loss rate: 0.80%
```

Run 5: Report of Copa — Data Link

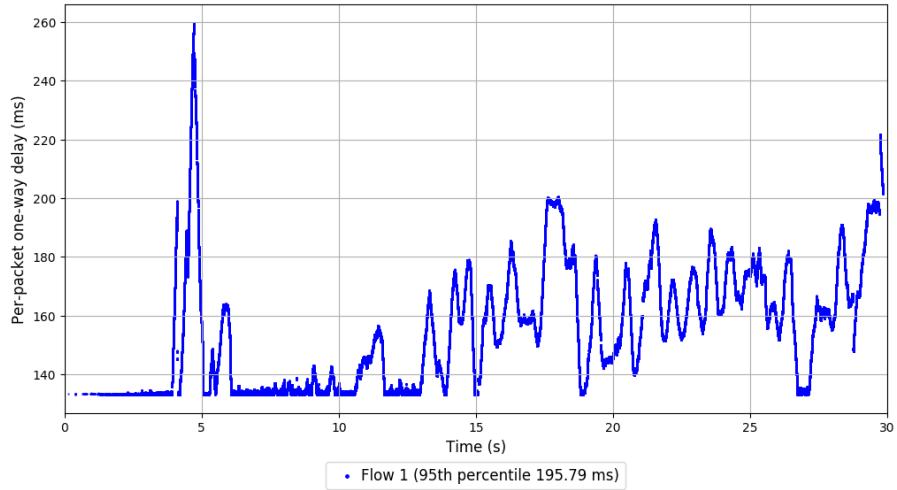
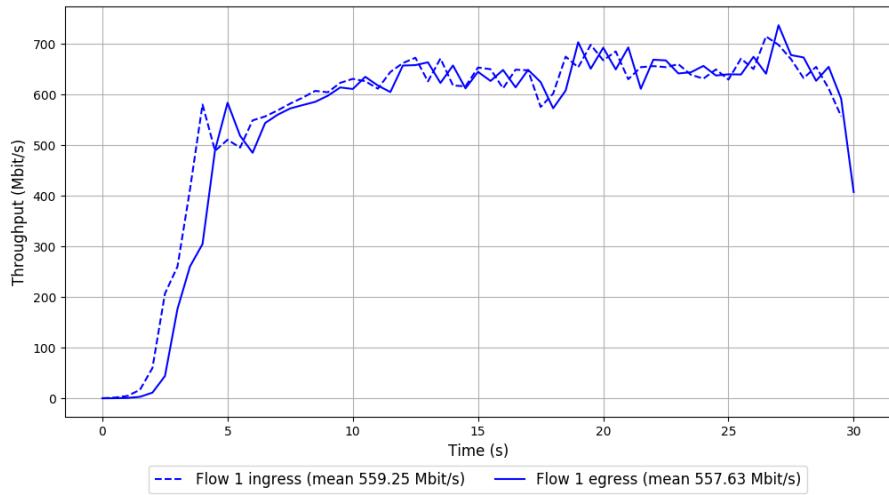


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-19 05:31:26
End at: 2019-01-19 05:31:56
Local clock offset: 0.351 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-01-19 08:21:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.63 Mbit/s
95th percentile per-packet one-way delay: 195.792 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 557.63 Mbit/s
95th percentile per-packet one-way delay: 195.792 ms
Loss rate: 1.18%
```

Run 1: Report of TCP Cubic — Data Link

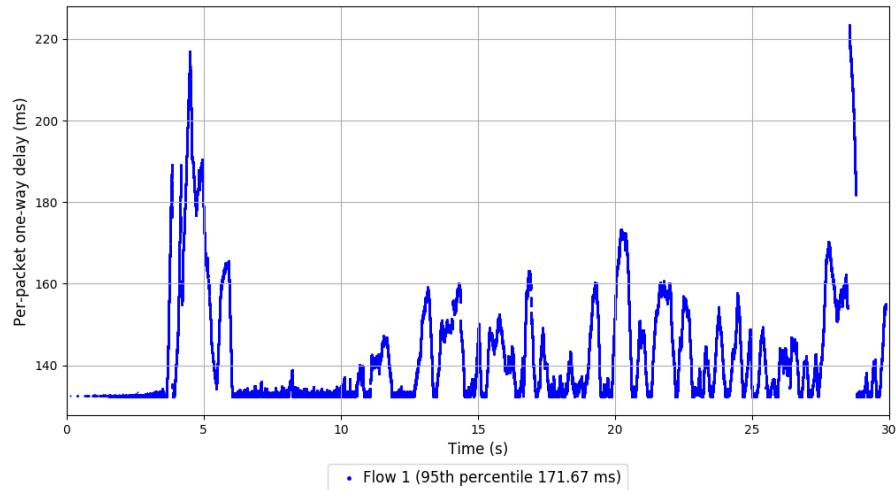
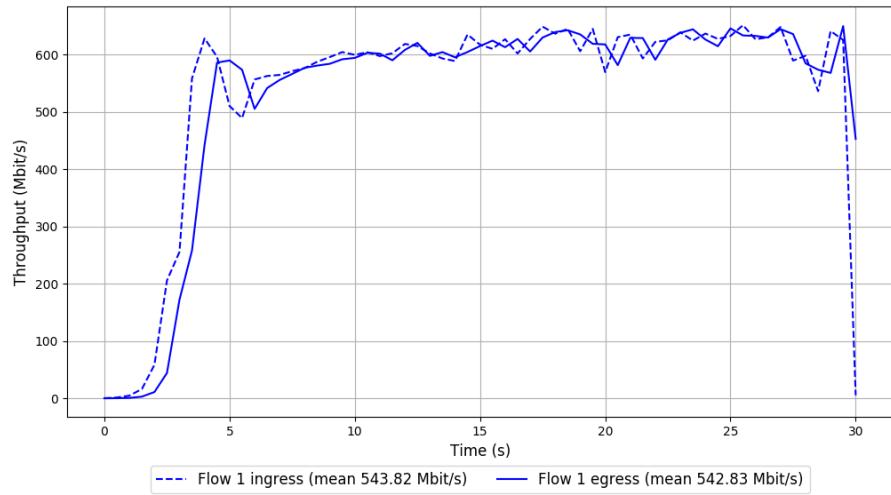


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-19 06:04:49
End at: 2019-01-19 06:05:19
Local clock offset: -0.229 ms
Remote clock offset: 0.24 ms

# Below is generated by plot.py at 2019-01-19 08:21:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 542.83 Mbit/s
95th percentile per-packet one-way delay: 171.666 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 542.83 Mbit/s
95th percentile per-packet one-way delay: 171.666 ms
Loss rate: 1.07%
```

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

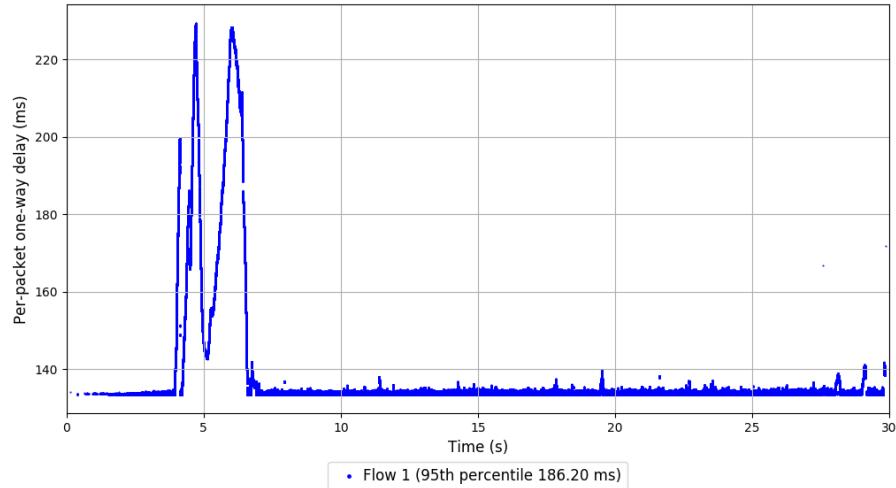
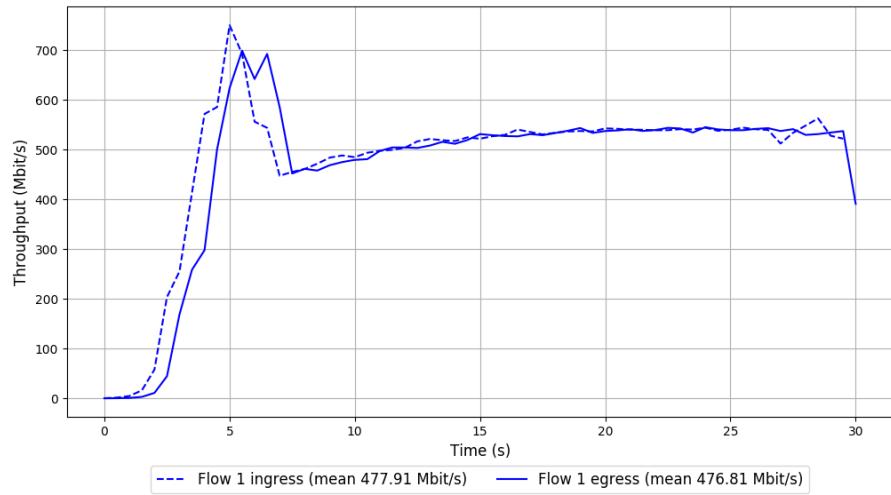


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-19 06:39:20
End at: 2019-01-19 06:39:50
Local clock offset: -0.043 ms
Remote clock offset: -0.448 ms

# Below is generated by plot.py at 2019-01-19 08:21:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 476.81 Mbit/s
95th percentile per-packet one-way delay: 186.200 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 476.81 Mbit/s
95th percentile per-packet one-way delay: 186.200 ms
Loss rate: 1.01%
```

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

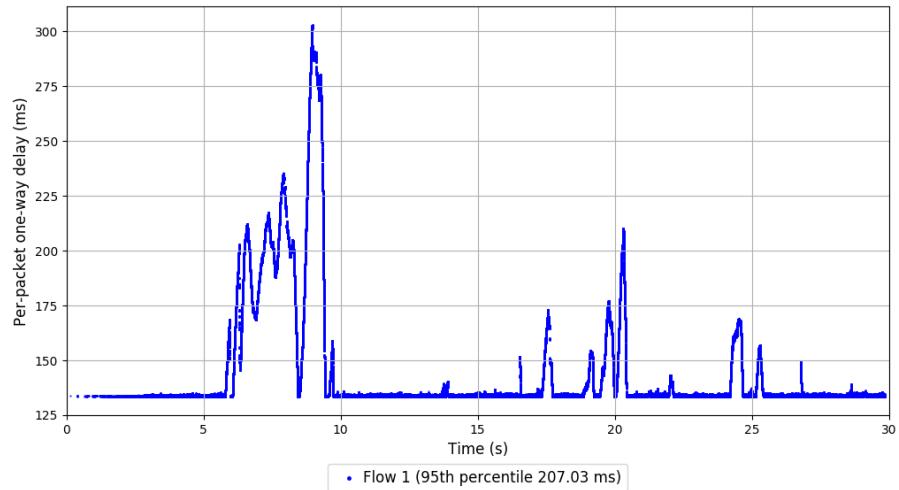
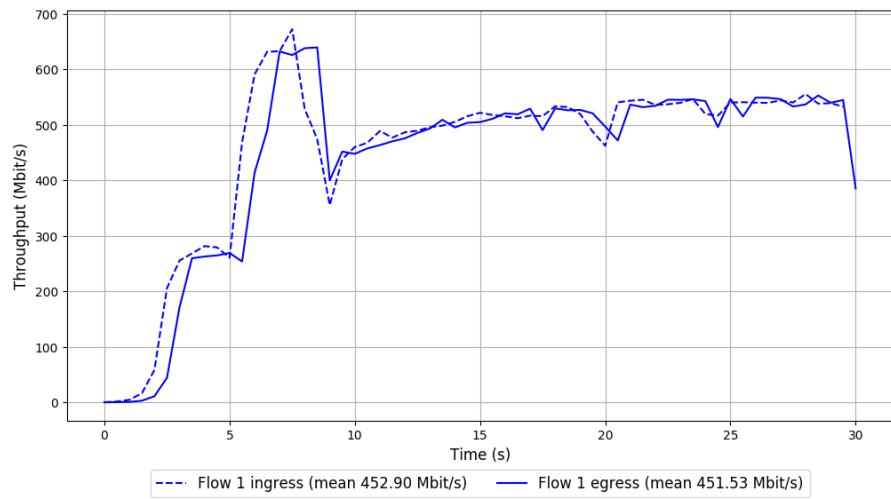


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-19 07:13:49
End at: 2019-01-19 07:14:19
Local clock offset: 0.401 ms
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2019-01-19 08:21:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 451.53 Mbit/s
95th percentile per-packet one-way delay: 207.032 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 451.53 Mbit/s
95th percentile per-packet one-way delay: 207.032 ms
Loss rate: 1.19%
```

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

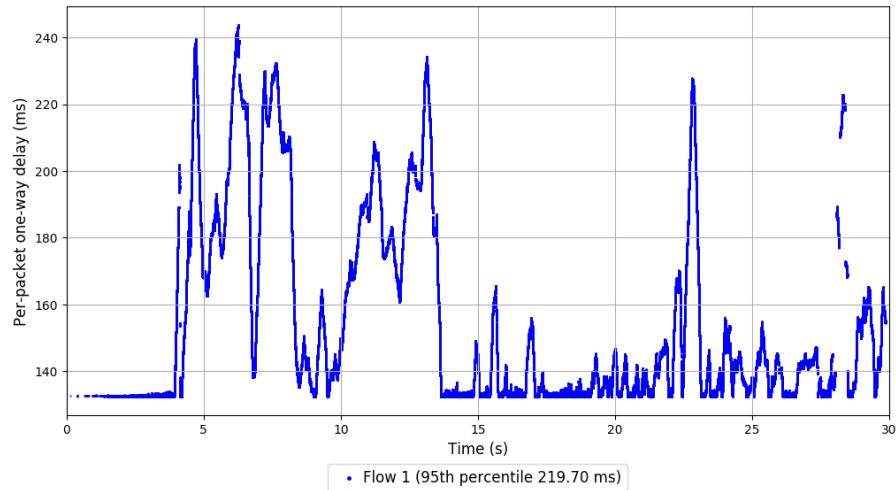
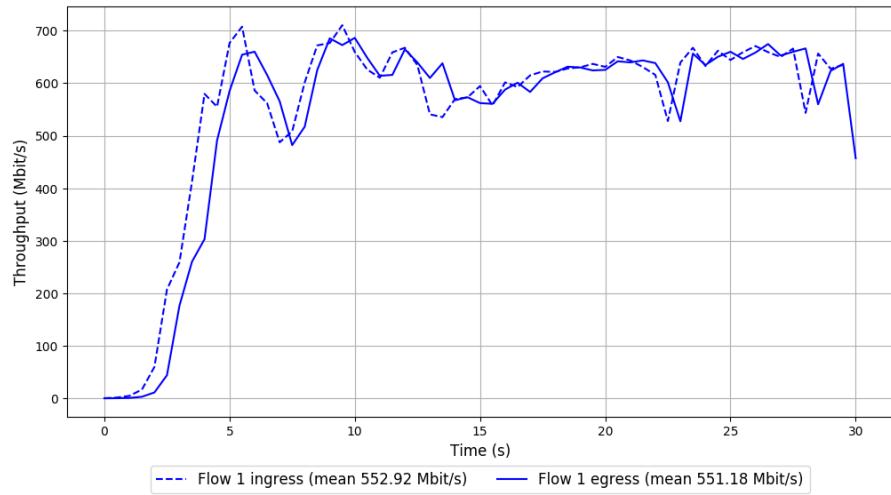


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-19 07:47:53
End at: 2019-01-19 07:48:23
Local clock offset: -0.465 ms
Remote clock offset: -0.509 ms

# Below is generated by plot.py at 2019-01-19 08:22:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 551.18 Mbit/s
95th percentile per-packet one-way delay: 219.698 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 551.18 Mbit/s
95th percentile per-packet one-way delay: 219.698 ms
Loss rate: 1.20%
```

Run 5: Report of TCP Cubic — Data Link

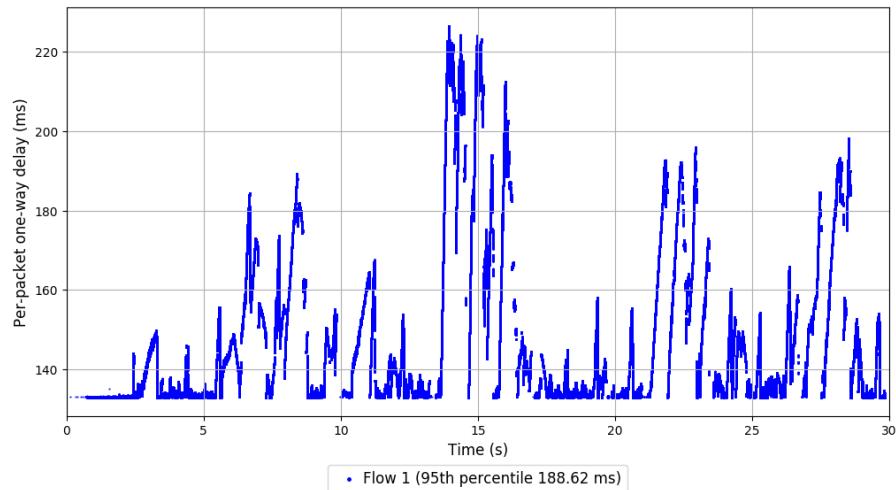
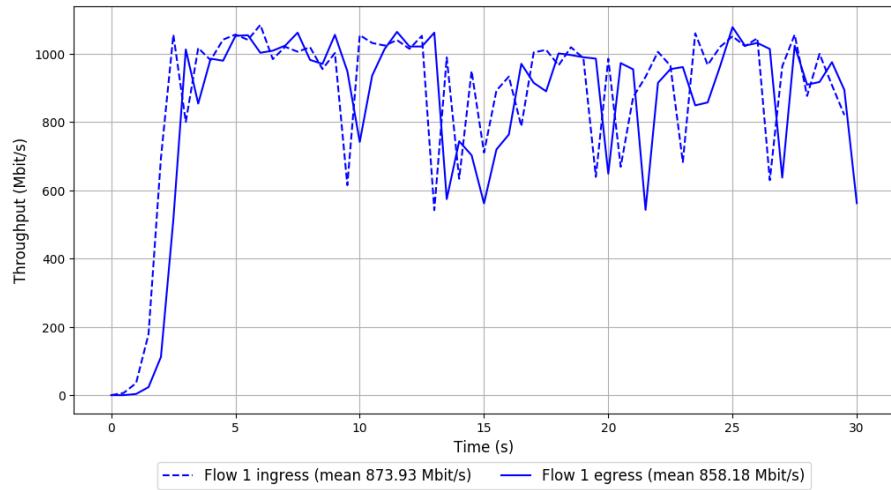


```
Run 1: Statistics of FillP

Start at: 2019-01-19 05:22:44
End at: 2019-01-19 05:23:15
Local clock offset: 0.095 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-01-19 08:31:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 858.18 Mbit/s
95th percentile per-packet one-way delay: 188.622 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 858.18 Mbit/s
95th percentile per-packet one-way delay: 188.622 ms
Loss rate: 2.67%
```

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

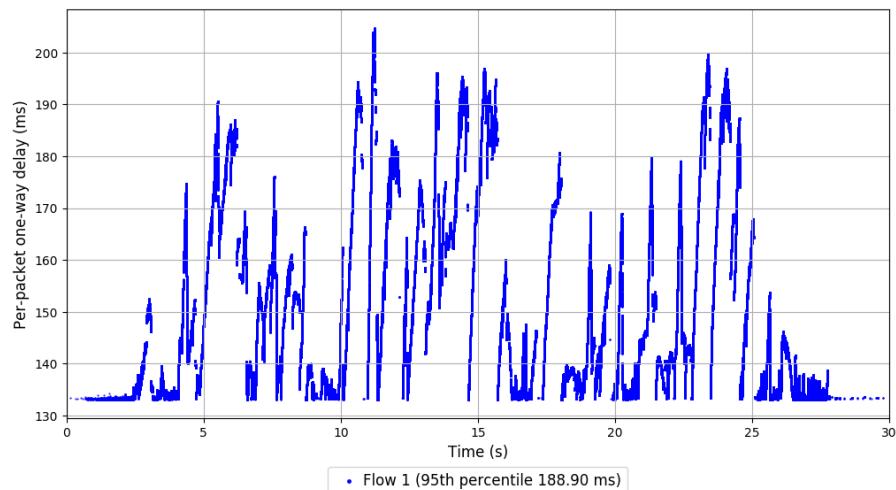
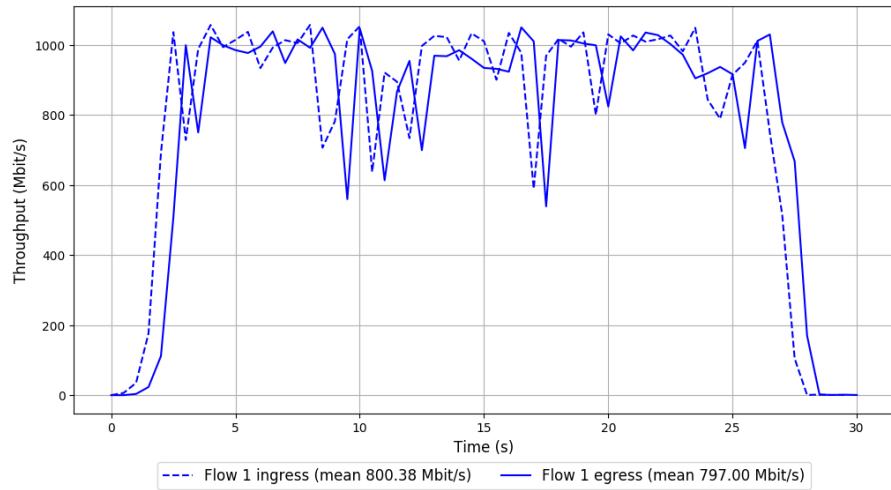


Run 2: Statistics of FillP

```
Start at: 2019-01-19 05:56:44
End at: 2019-01-19 05:57:14
Local clock offset: 0.363 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-01-19 08:39:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 797.00 Mbit/s
95th percentile per-packet one-way delay: 188.897 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 797.00 Mbit/s
95th percentile per-packet one-way delay: 188.897 ms
Loss rate: 1.31%
```

## Run 2: Report of FillP — Data Link

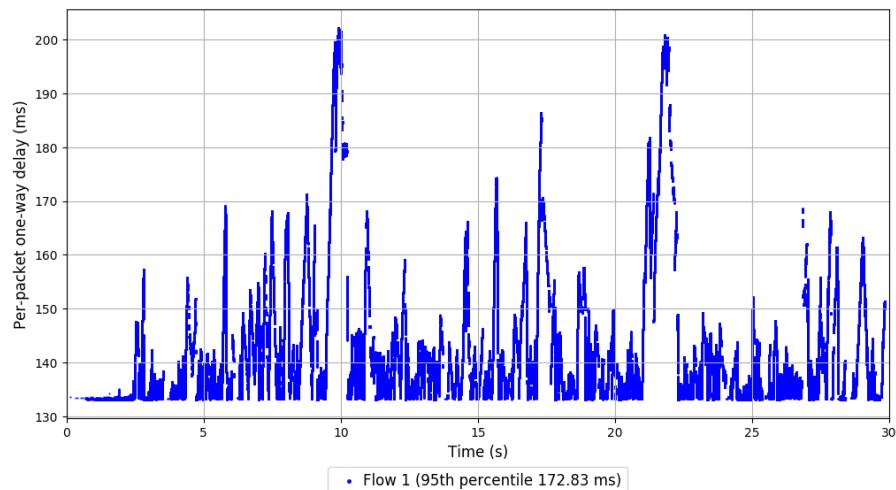
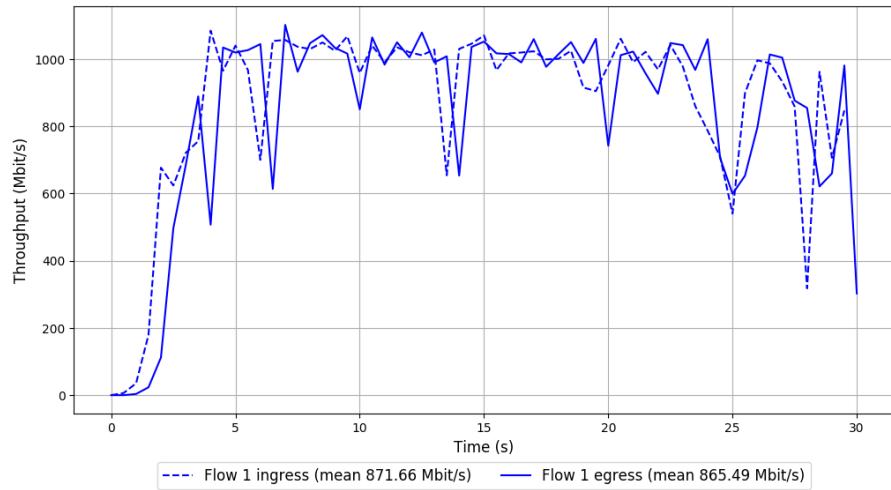


Run 3: Statistics of FillP

```
Start at: 2019-01-19 06:30:23
End at: 2019-01-19 06:30:53
Local clock offset: 0.169 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-01-19 08:41:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 865.49 Mbit/s
95th percentile per-packet one-way delay: 172.826 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 865.49 Mbit/s
95th percentile per-packet one-way delay: 172.826 ms
Loss rate: 1.59%
```

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

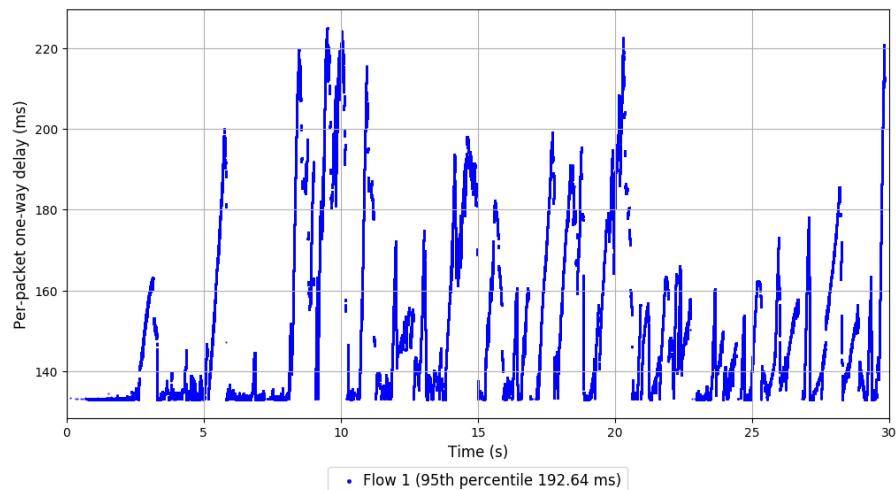
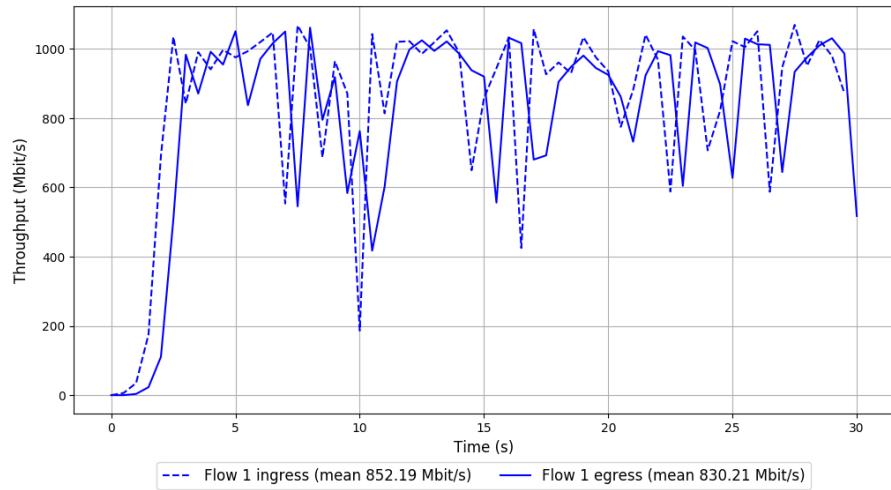


Run 4: Statistics of FillP

```
Start at: 2019-01-19 07:04:58
End at: 2019-01-19 07:05:28
Local clock offset: 0.104 ms
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2019-01-19 08:41:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 830.21 Mbit/s
95th percentile per-packet one-way delay: 192.638 ms
Loss rate: 3.45%
-- Flow 1:
Average throughput: 830.21 Mbit/s
95th percentile per-packet one-way delay: 192.638 ms
Loss rate: 3.45%
```

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

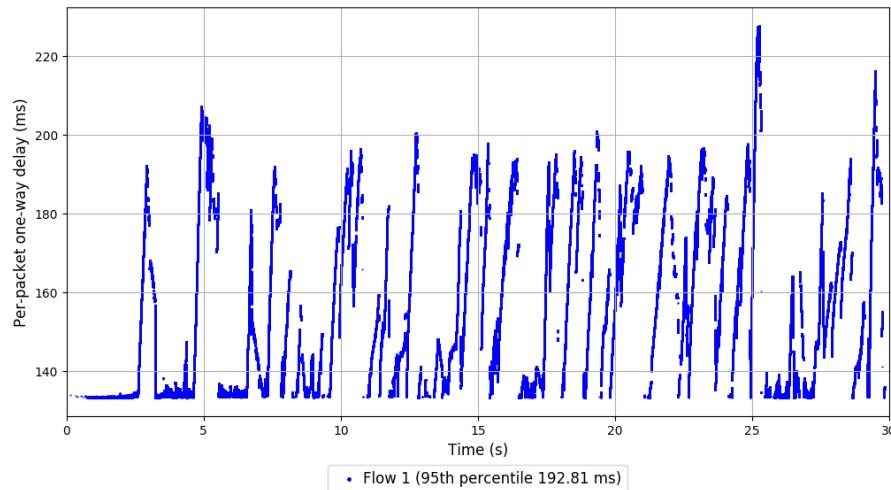
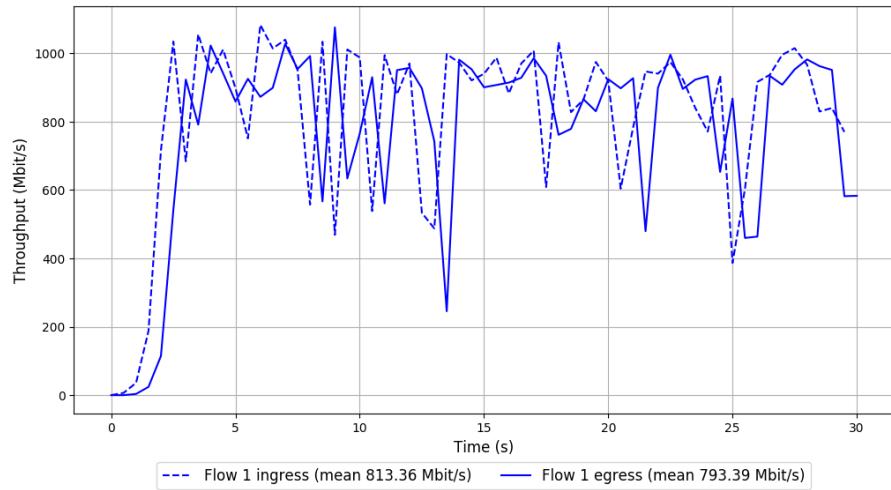


```
Run 5: Statistics of FillP
```

```
Start at: 2019-01-19 07:39:17
End at: 2019-01-19 07:39:47
Local clock offset: 0.183 ms
Remote clock offset: -0.498 ms

# Below is generated by plot.py at 2019-01-19 08:41:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 793.39 Mbit/s
95th percentile per-packet one-way delay: 192.815 ms
Loss rate: 3.32%
-- Flow 1:
Average throughput: 793.39 Mbit/s
95th percentile per-packet one-way delay: 192.815 ms
Loss rate: 3.32%
```

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

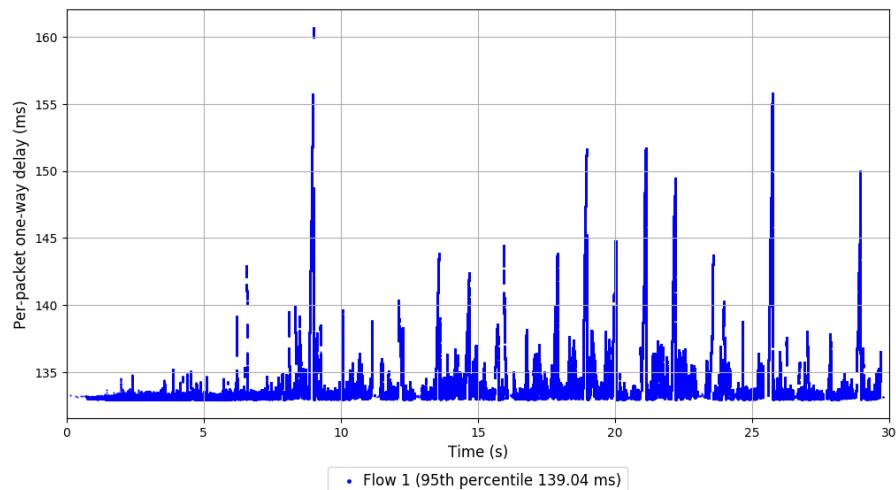
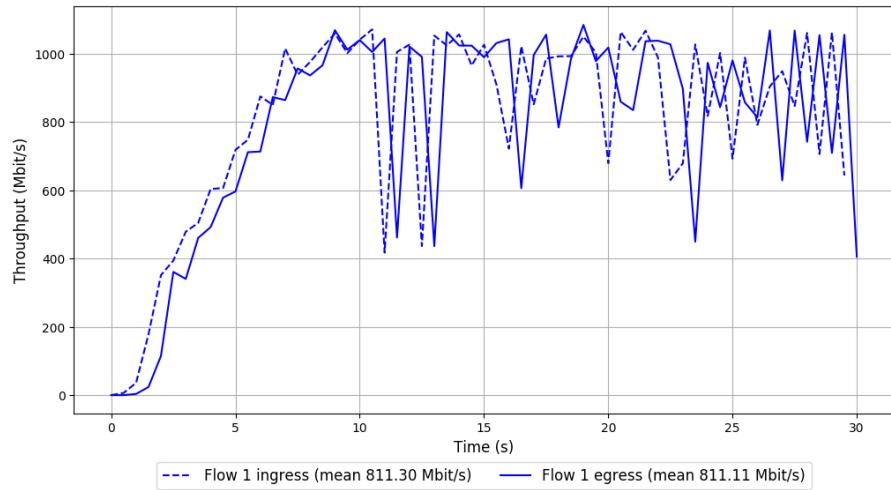


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-19 05:09:10
End at: 2019-01-19 05:09:40
Local clock offset: 0.199 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-01-19 08:41:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 811.11 Mbit/s
95th percentile per-packet one-way delay: 139.040 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 811.11 Mbit/s
95th percentile per-packet one-way delay: 139.040 ms
Loss rate: 1.09%
```

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

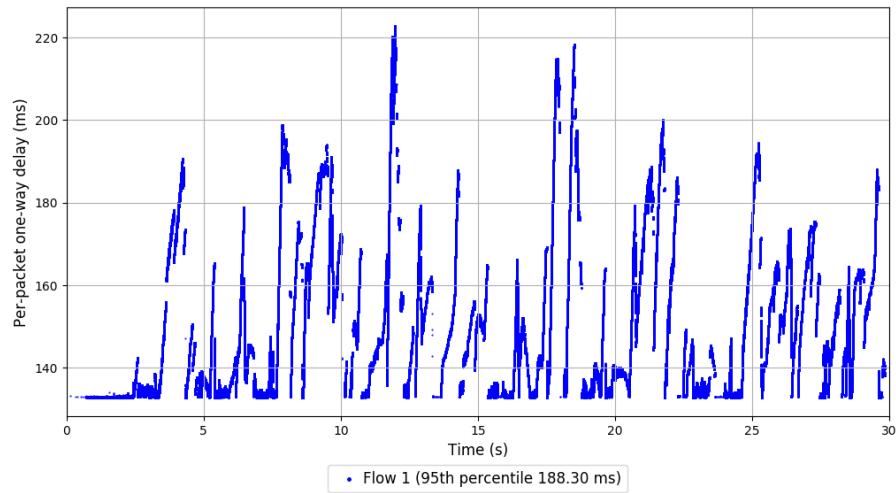
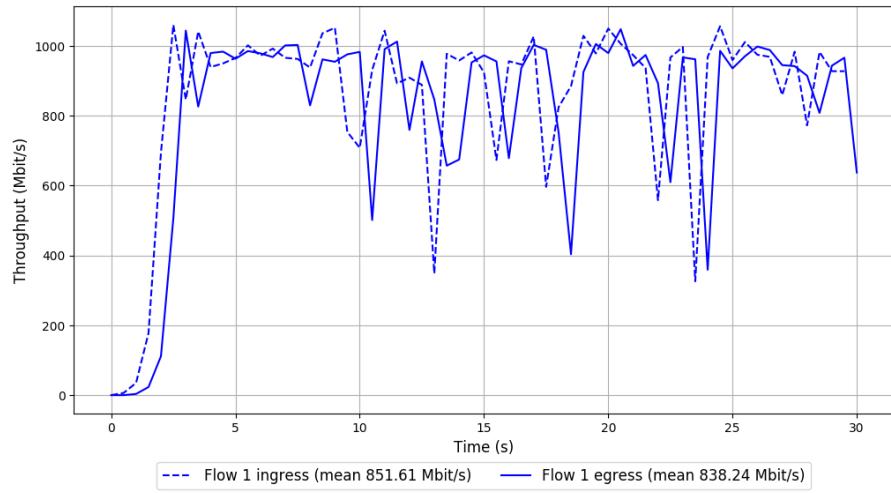


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-19 05:42:16
End at: 2019-01-19 05:42:47
Local clock offset: -0.048 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-01-19 08:41:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 838.24 Mbit/s
95th percentile per-packet one-way delay: 188.300 ms
Loss rate: 2.45%
-- Flow 1:
Average throughput: 838.24 Mbit/s
95th percentile per-packet one-way delay: 188.300 ms
Loss rate: 2.45%
```

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

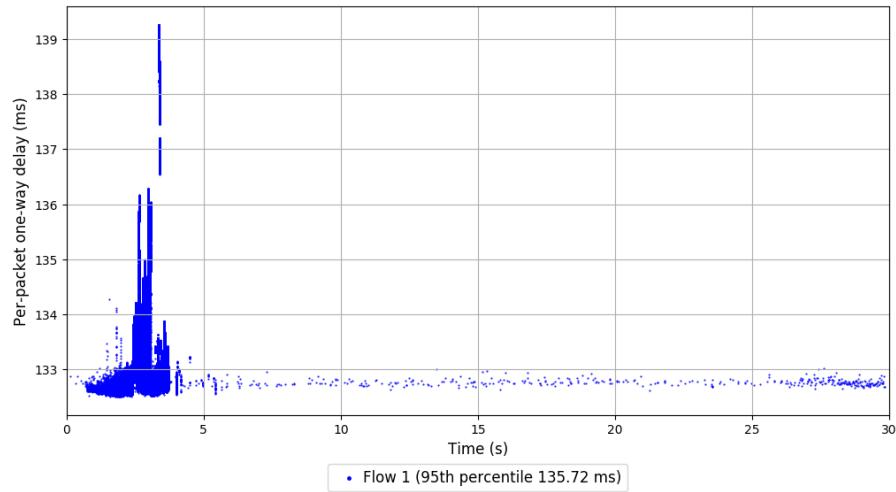
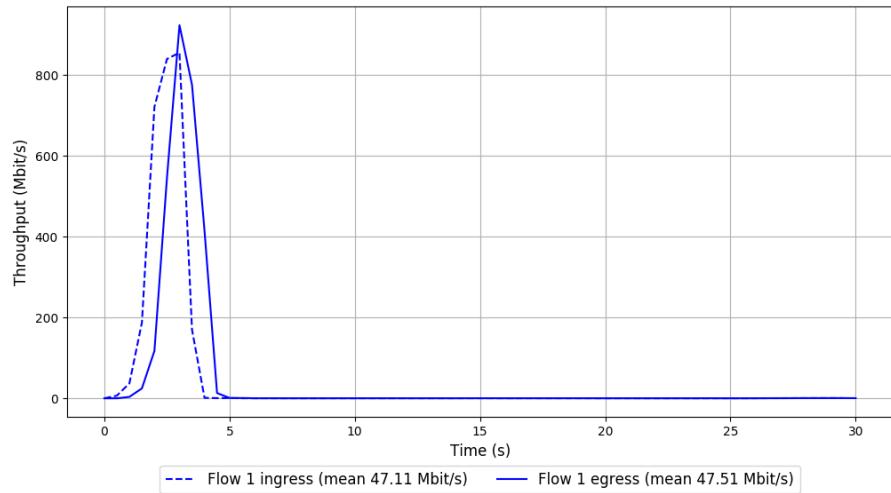


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-19 06:15:51
End at: 2019-01-19 06:16:21
Local clock offset: -0.022 ms
Remote clock offset: 0.267 ms

# Below is generated by plot.py at 2019-01-19 08:41:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.51 Mbit/s
95th percentile per-packet one-way delay: 135.720 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 47.51 Mbit/s
95th percentile per-packet one-way delay: 135.720 ms
Loss rate: 0.02%
```

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

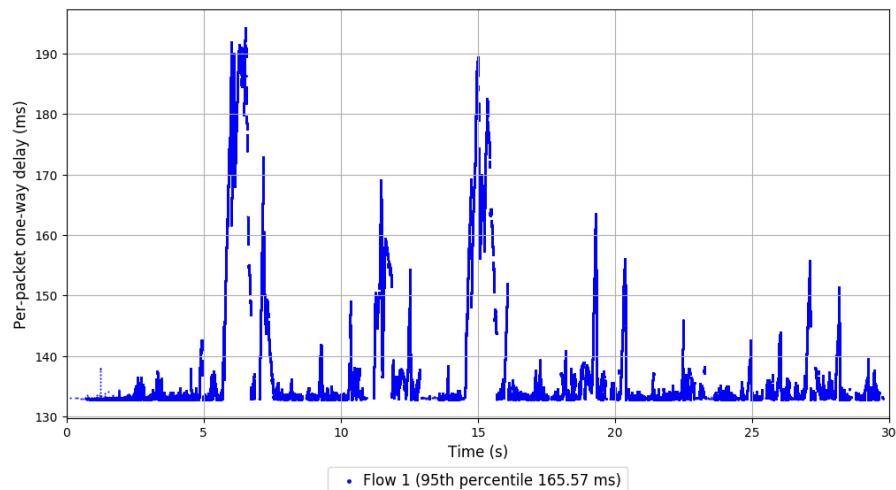
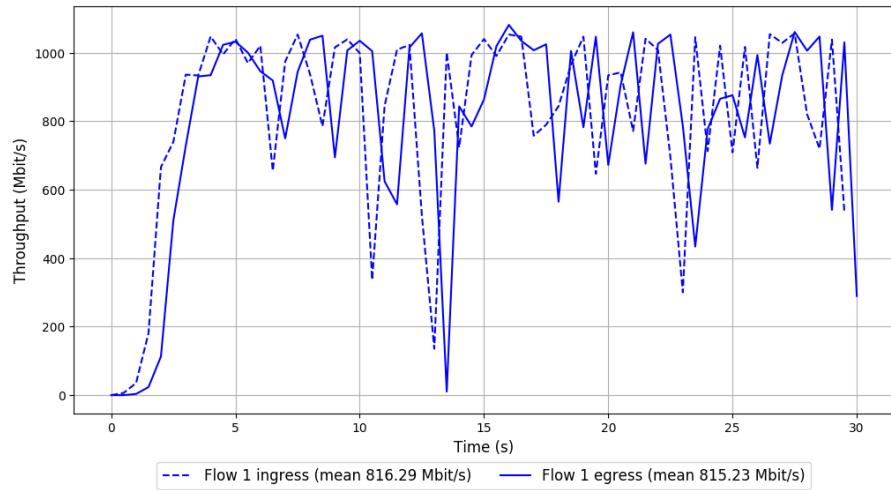


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-19 06:50:10
End at: 2019-01-19 06:50:40
Local clock offset: 0.377 ms
Remote clock offset: 0.239 ms

# Below is generated by plot.py at 2019-01-19 08:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 815.23 Mbit/s
95th percentile per-packet one-way delay: 165.570 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 815.23 Mbit/s
95th percentile per-packet one-way delay: 165.570 ms
Loss rate: 1.26%
```

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

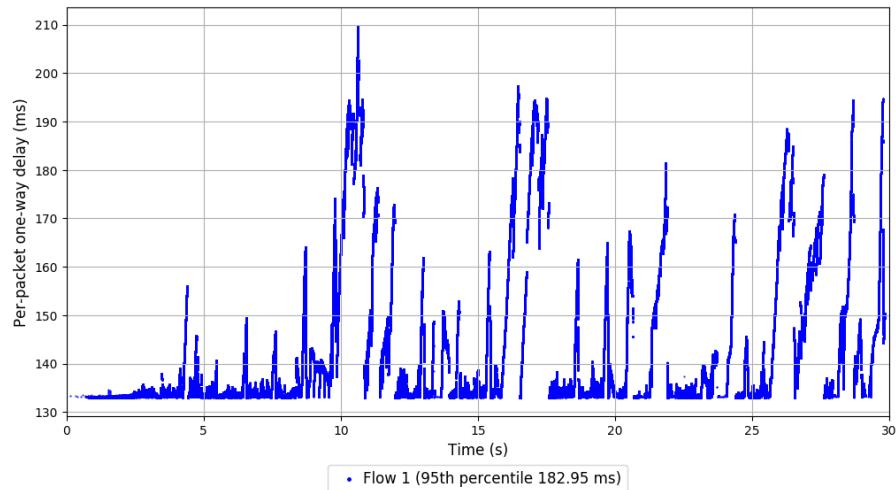
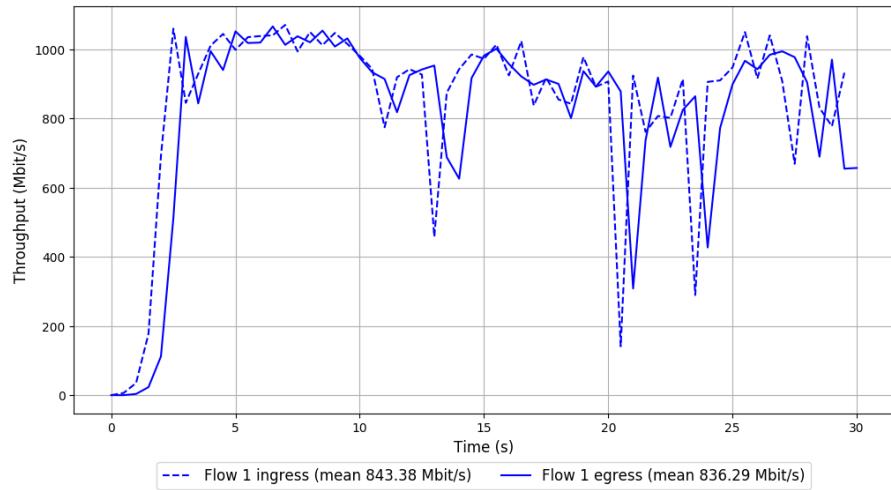


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-19 07:24:13
End at: 2019-01-19 07:24:43
Local clock offset: -0.456 ms
Remote clock offset: -0.485 ms

# Below is generated by plot.py at 2019-01-19 08:55:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 836.29 Mbit/s
95th percentile per-packet one-way delay: 182.949 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 836.29 Mbit/s
95th percentile per-packet one-way delay: 182.949 ms
Loss rate: 1.73%
```

Run 5: Report of FillP-Sheep — Data Link

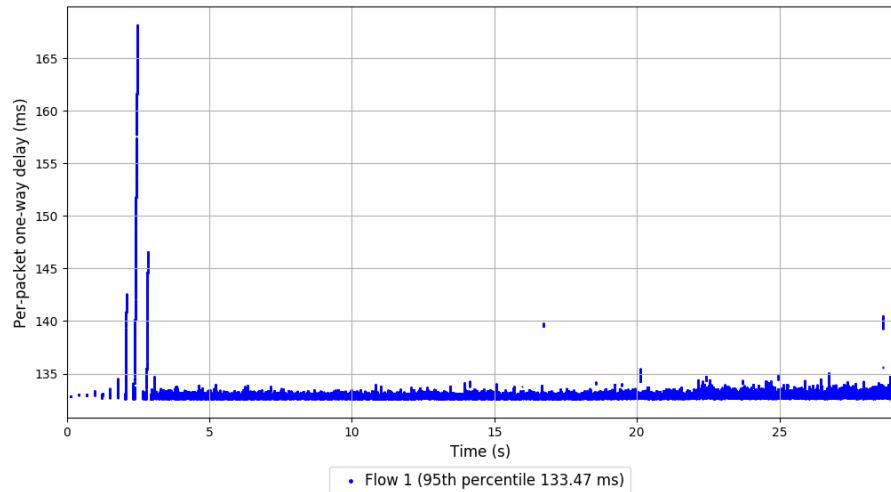
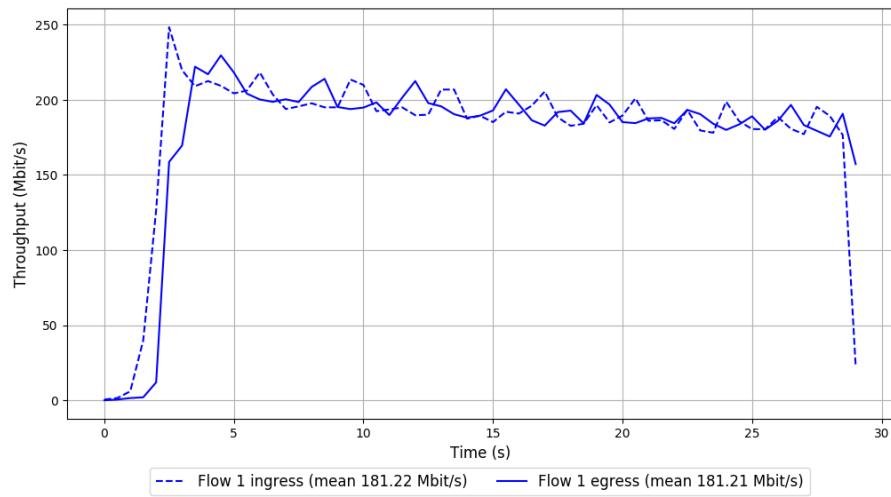


Run 1: Statistics of Indigo

```
Start at: 2019-01-19 05:03:25
End at: 2019-01-19 05:03:55
Local clock offset: -0.316 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-01-19 08:55:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.21 Mbit/s
95th percentile per-packet one-way delay: 133.475 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 181.21 Mbit/s
95th percentile per-packet one-way delay: 133.475 ms
Loss rate: 0.92%
```

## Run 1: Report of Indigo — Data Link

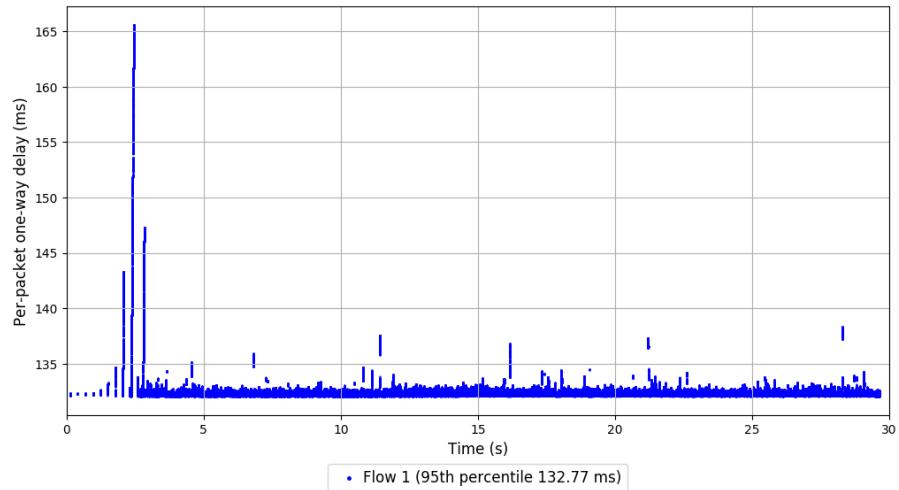
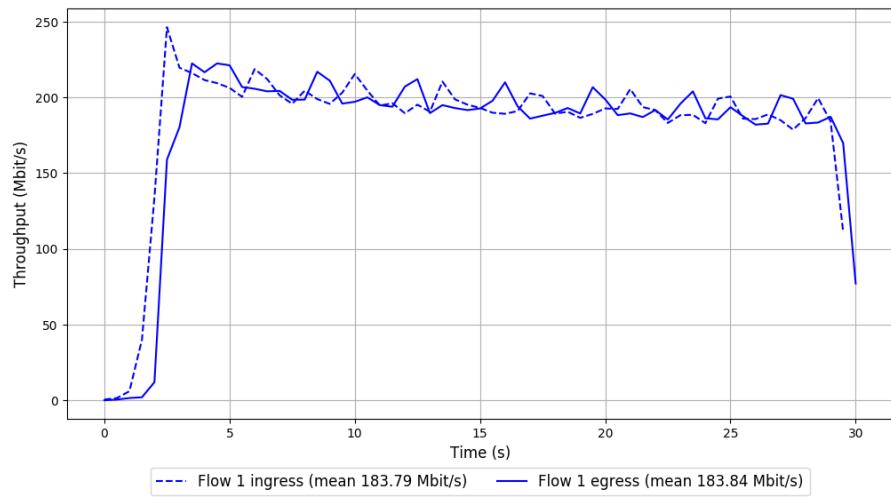


Run 2: Statistics of Indigo

```
Start at: 2019-01-19 05:35:49
End at: 2019-01-19 05:36:19
Local clock offset: 0.402 ms
Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2019-01-19 08:55:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.84 Mbit/s
95th percentile per-packet one-way delay: 132.771 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 183.84 Mbit/s
95th percentile per-packet one-way delay: 132.771 ms
Loss rate: 0.89%
```

## Run 2: Report of Indigo — Data Link

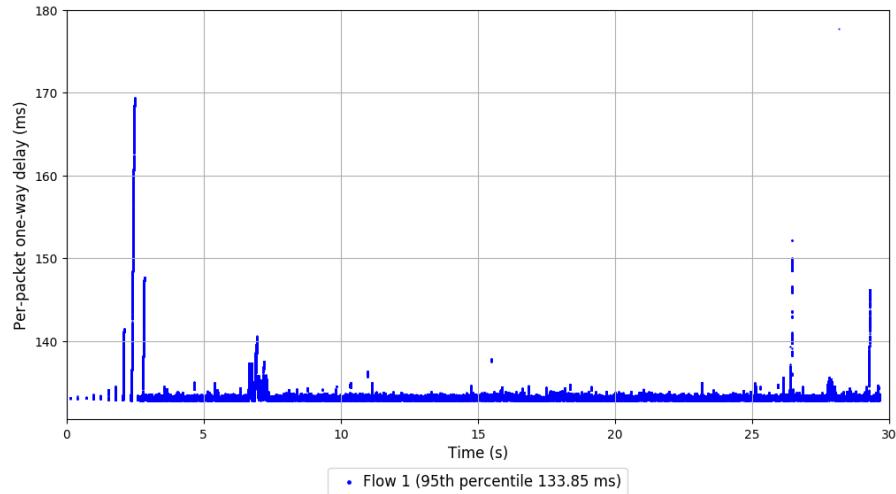
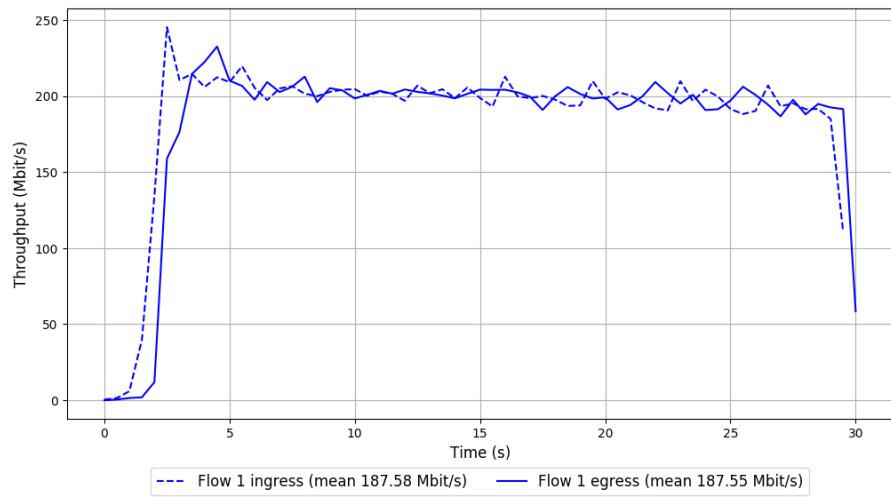


Run 3: Statistics of Indigo

```
Start at: 2019-01-19 06:09:10
End at: 2019-01-19 06:09:40
Local clock offset: 0.125 ms
Remote clock offset: 0.255 ms

# Below is generated by plot.py at 2019-01-19 08:55:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.55 Mbit/s
95th percentile per-packet one-way delay: 133.850 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 187.55 Mbit/s
95th percentile per-packet one-way delay: 133.850 ms
Loss rate: 0.91%
```

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

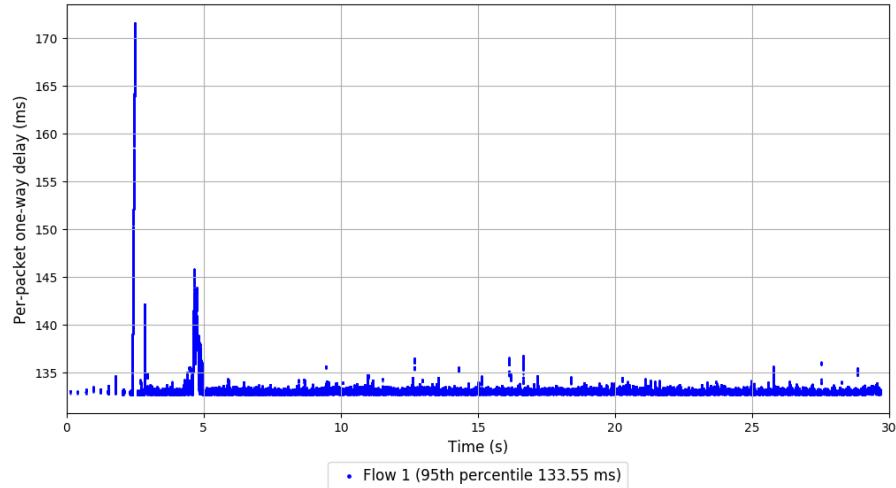
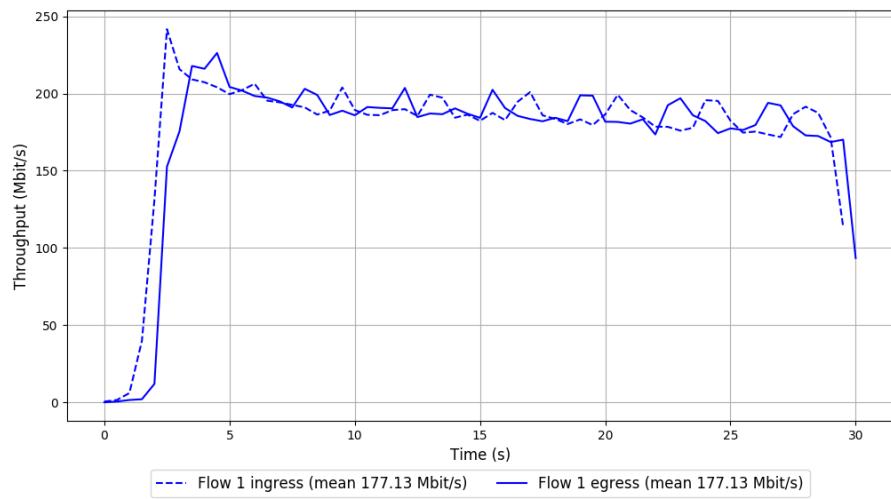


Run 4: Statistics of Indigo

```
Start at: 2019-01-19 06:43:41
End at: 2019-01-19 06:44:11
Local clock offset: -0.2 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-01-19 08:55:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.13 Mbit/s
95th percentile per-packet one-way delay: 133.553 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 177.13 Mbit/s
95th percentile per-packet one-way delay: 133.553 ms
Loss rate: 0.89%
```

## Run 4: Report of Indigo — Data Link

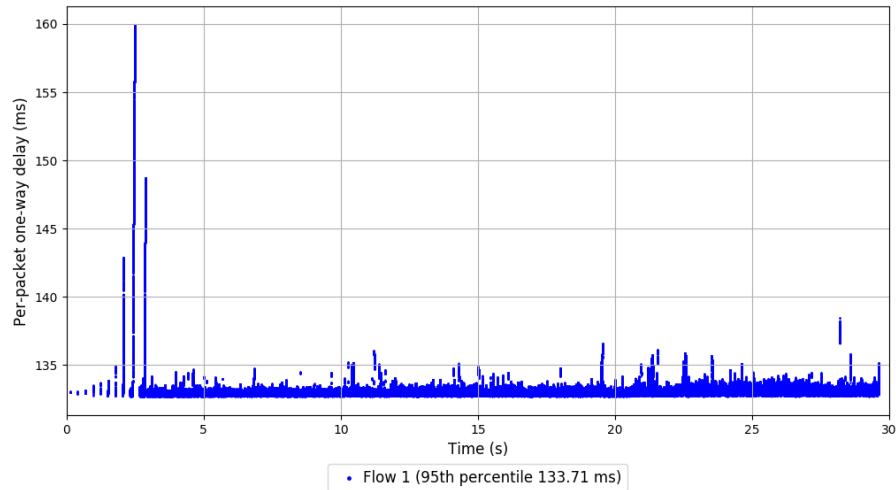
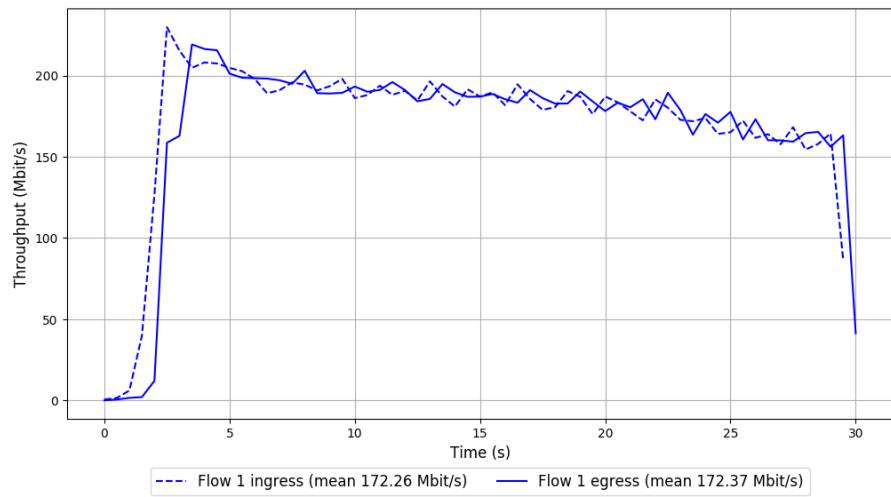


Run 5: Statistics of Indigo

```
Start at: 2019-01-19 07:18:12
End at: 2019-01-19 07:18:42
Local clock offset: -0.445 ms
Remote clock offset: -0.527 ms

# Below is generated by plot.py at 2019-01-19 08:55:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 172.37 Mbit/s
95th percentile per-packet one-way delay: 133.712 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 172.37 Mbit/s
95th percentile per-packet one-way delay: 133.712 ms
Loss rate: 0.84%
```

## Run 5: Report of Indigo — Data Link

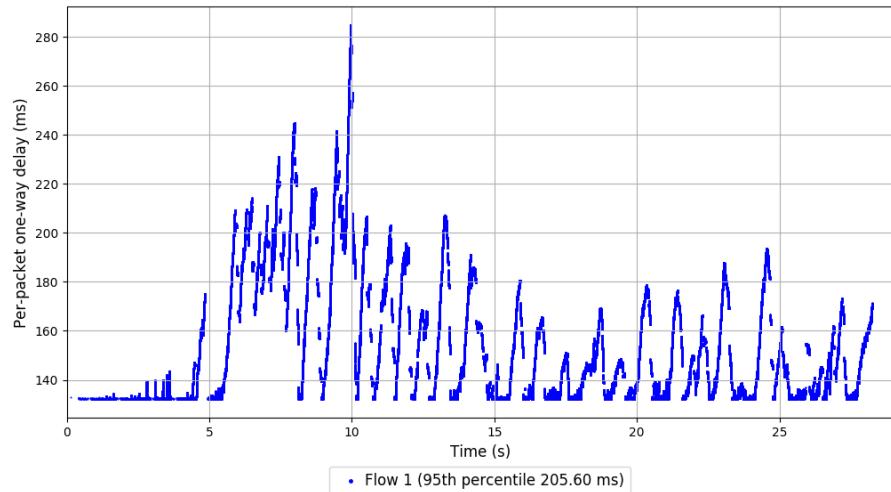
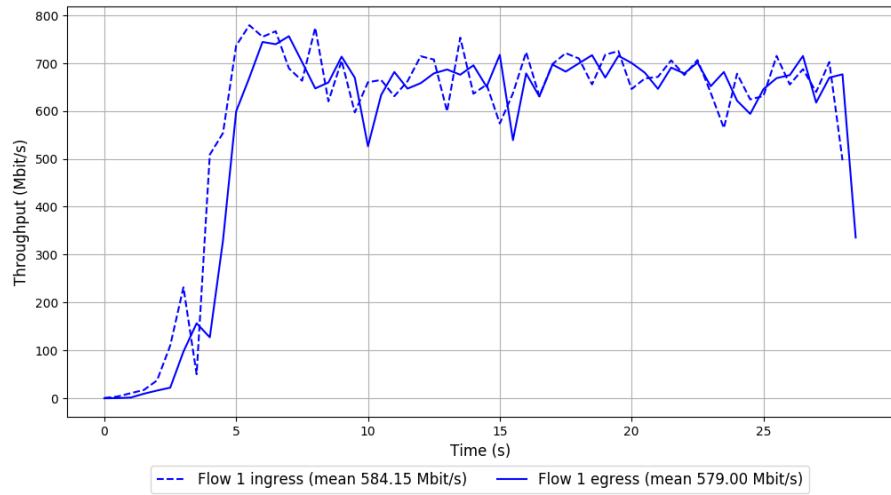


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-01-19 05:27:35
End at: 2019-01-19 05:28:05
Local clock offset: -0.29 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-01-19 08:55:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.00 Mbit/s
95th percentile per-packet one-way delay: 205.602 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 579.00 Mbit/s
95th percentile per-packet one-way delay: 205.602 ms
Loss rate: 1.81%
```

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

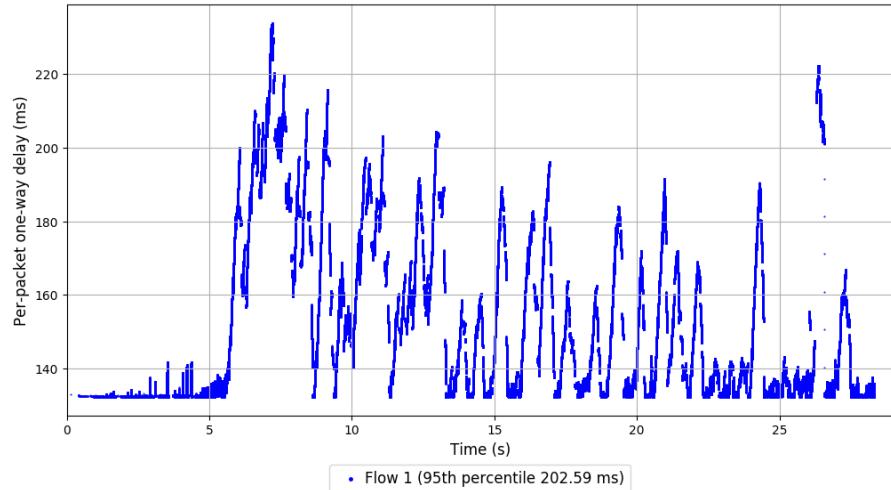
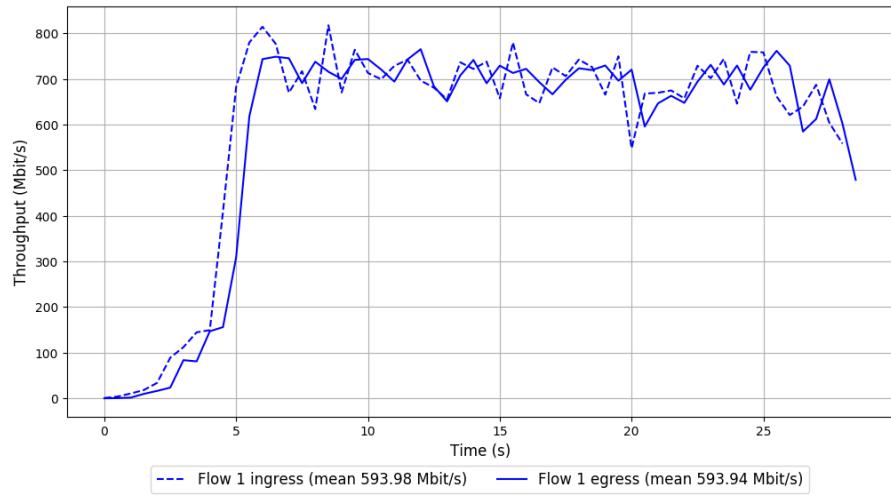


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 06:01:27
End at: 2019-01-19 06:01:57
Local clock offset: -0.18 ms
Remote clock offset: 0.273 ms

# Below is generated by plot.py at 2019-01-19 08:56:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.94 Mbit/s
95th percentile per-packet one-way delay: 202.595 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 593.94 Mbit/s
95th percentile per-packet one-way delay: 202.595 ms
Loss rate: 0.94%
```

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

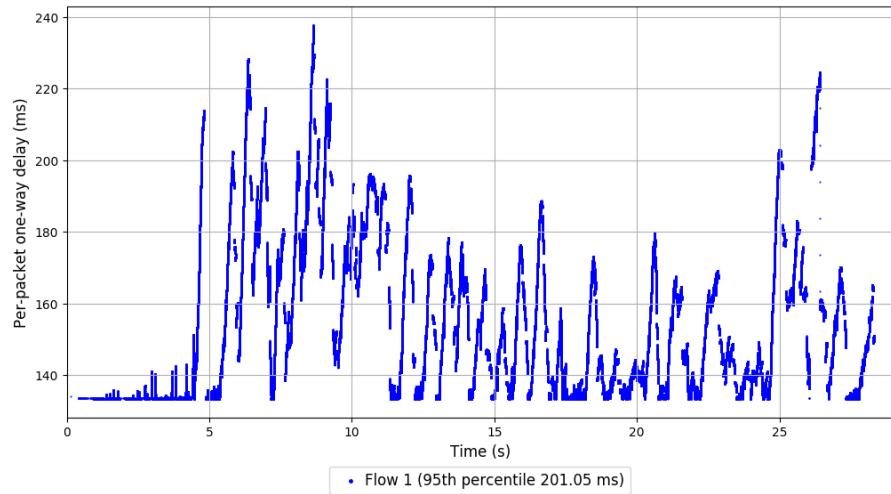
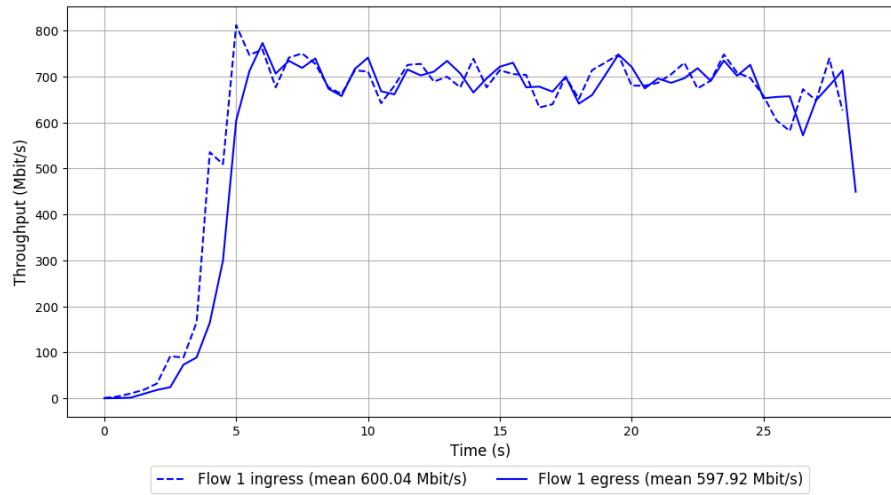


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 06:35:29
End at: 2019-01-19 06:35:59
Local clock offset: 0.355 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-01-19 08:58:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 597.92 Mbit/s
95th percentile per-packet one-way delay: 201.051 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 597.92 Mbit/s
95th percentile per-packet one-way delay: 201.051 ms
Loss rate: 1.29%
```

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

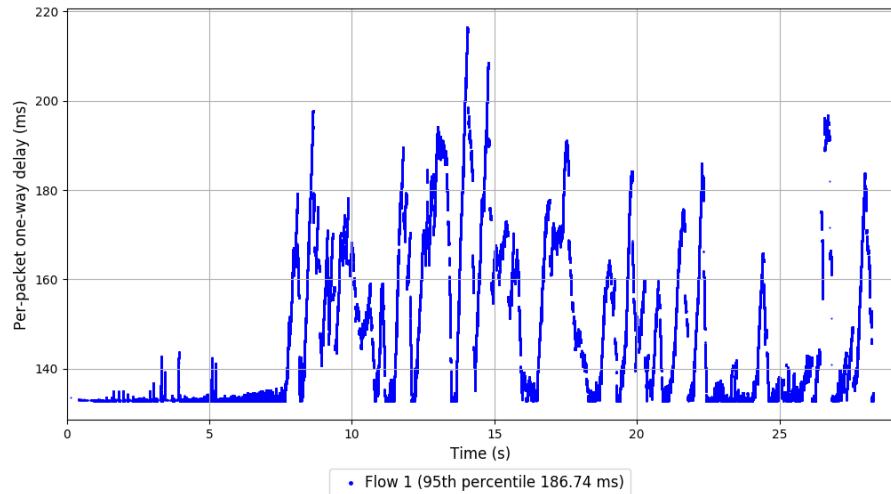
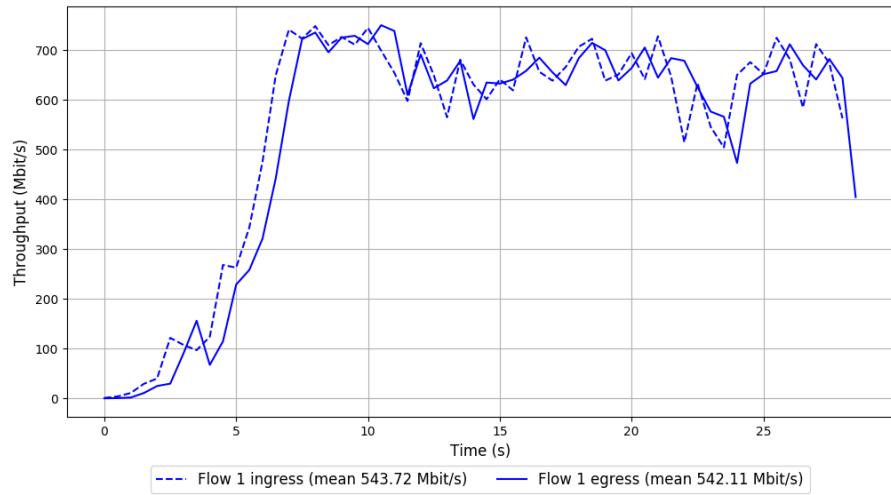


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 07:10:26
End at: 2019-01-19 07:10:56
Local clock offset: 0.282 ms
Remote clock offset: 0.222 ms

# Below is generated by plot.py at 2019-01-19 08:58:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 542.11 Mbit/s
95th percentile per-packet one-way delay: 186.741 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 542.11 Mbit/s
95th percentile per-packet one-way delay: 186.741 ms
Loss rate: 1.24%
```

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

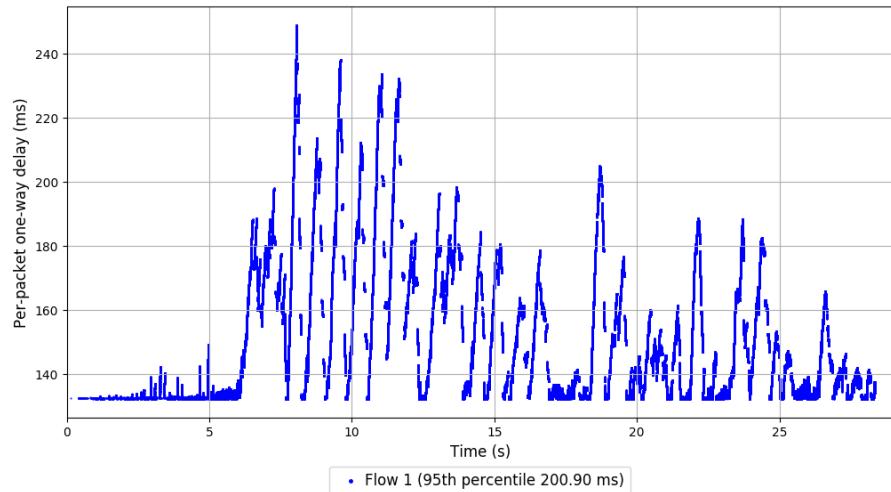
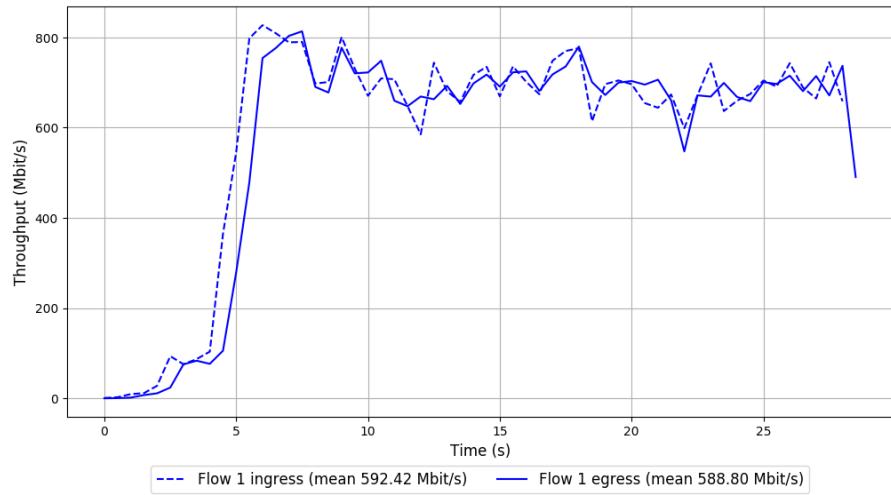


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 07:44:33
End at: 2019-01-19 07:45:03
Local clock offset: -0.086 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-01-19 08:59:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 588.80 Mbit/s
95th percentile per-packet one-way delay: 200.895 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 588.80 Mbit/s
95th percentile per-packet one-way delay: 200.895 ms
Loss rate: 1.54%
```

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

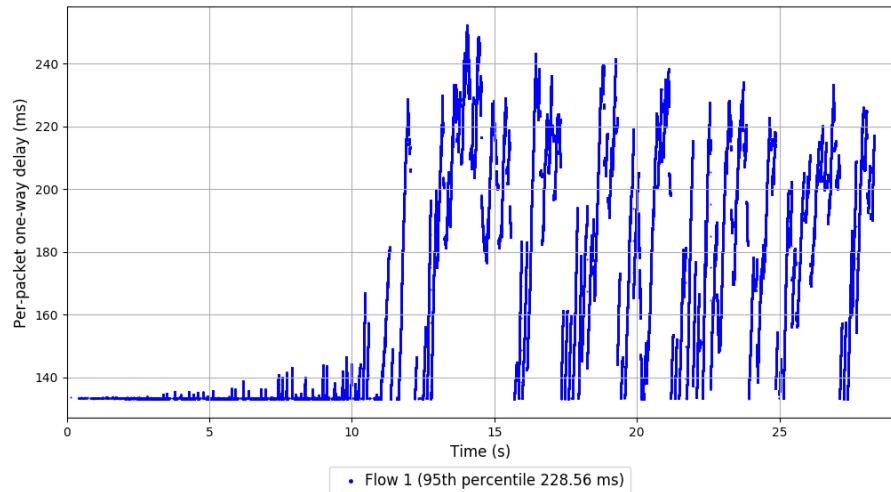
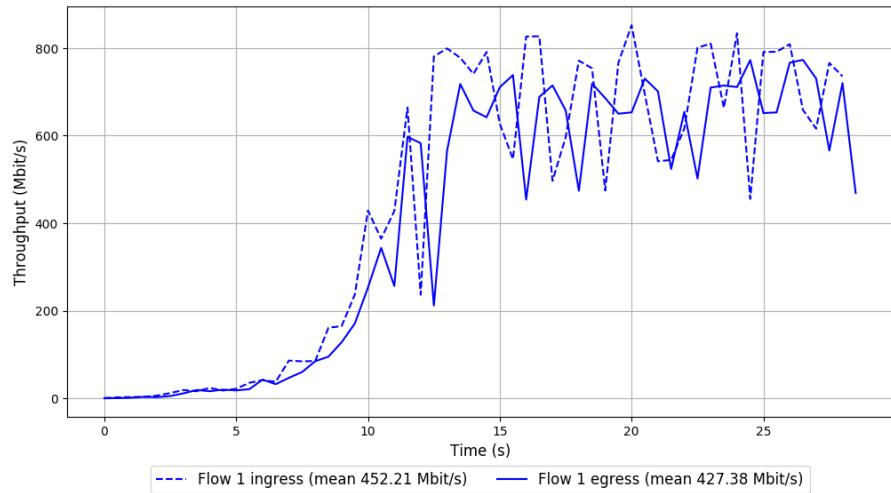


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-19 05:19:25
End at: 2019-01-19 05:19:55
Local clock offset: -0.095 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-01-19 08:59:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 427.38 Mbit/s
95th percentile per-packet one-way delay: 228.564 ms
Loss rate: 6.37%
-- Flow 1:
Average throughput: 427.38 Mbit/s
95th percentile per-packet one-way delay: 228.564 ms
Loss rate: 6.37%
```

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

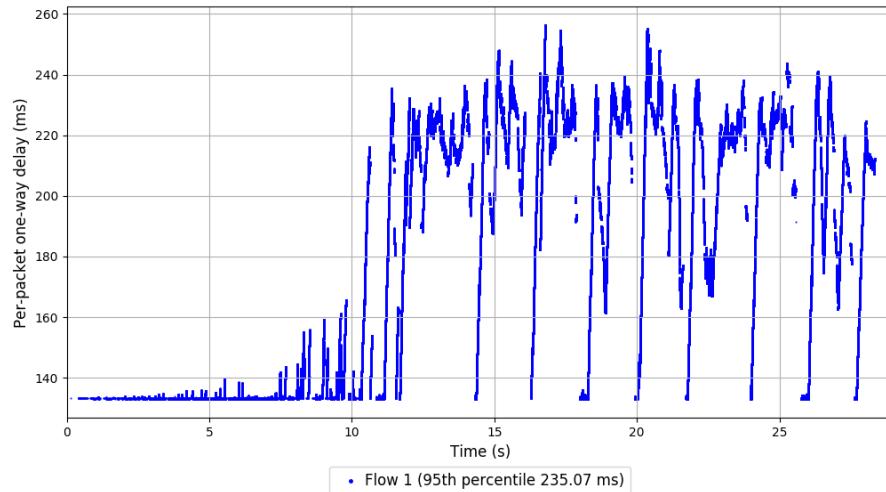
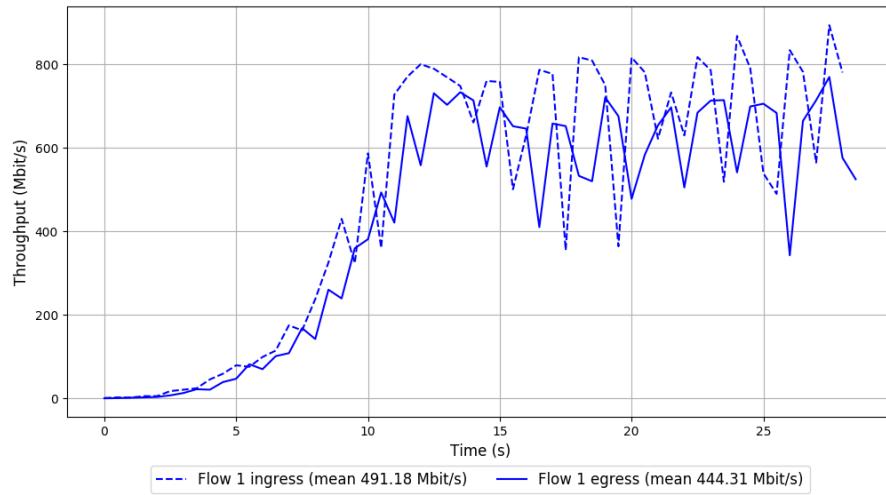


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 05:53:00
End at: 2019-01-19 05:53:31
Local clock offset: -0.008 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-01-19 08:59:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 444.31 Mbit/s
95th percentile per-packet one-way delay: 235.068 ms
Loss rate: 10.39%
-- Flow 1:
Average throughput: 444.31 Mbit/s
95th percentile per-packet one-way delay: 235.068 ms
Loss rate: 10.39%
```

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

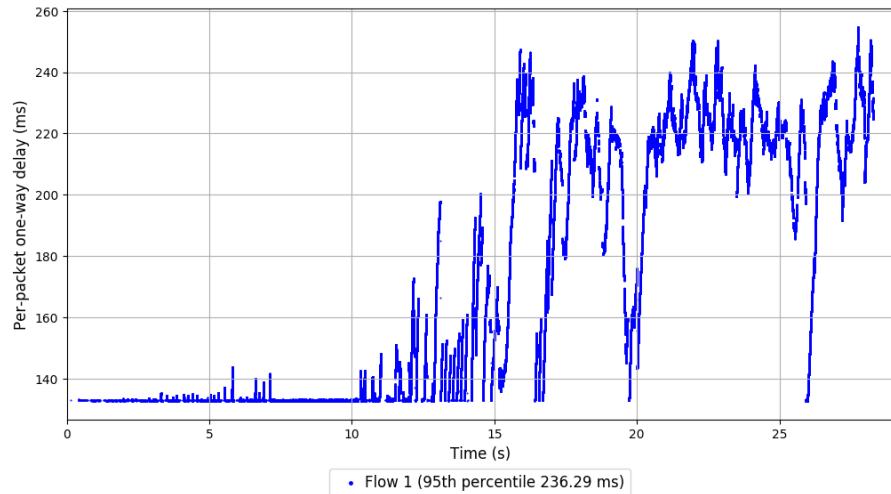
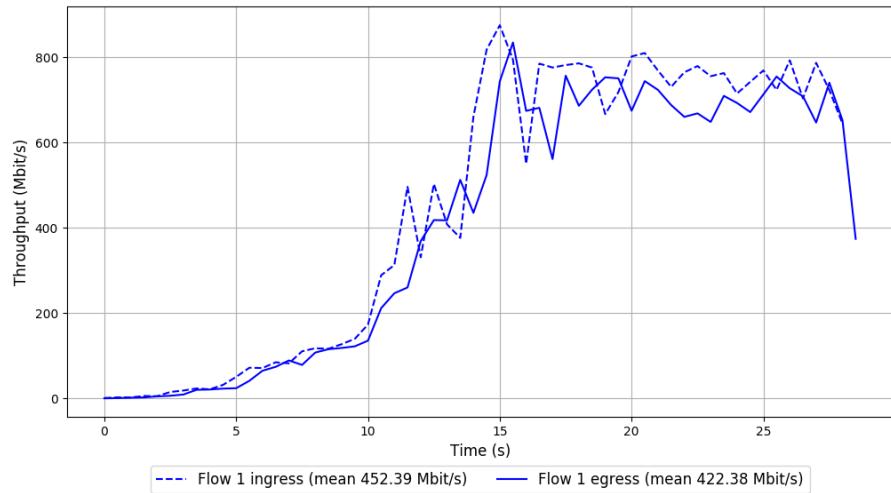


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 06:26:16
End at: 2019-01-19 06:26:46
Local clock offset: -0.288 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-01-19 09:01:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 422.38 Mbit/s
95th percentile per-packet one-way delay: 236.293 ms
Loss rate: 7.51%
-- Flow 1:
Average throughput: 422.38 Mbit/s
95th percentile per-packet one-way delay: 236.293 ms
Loss rate: 7.51%
```

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

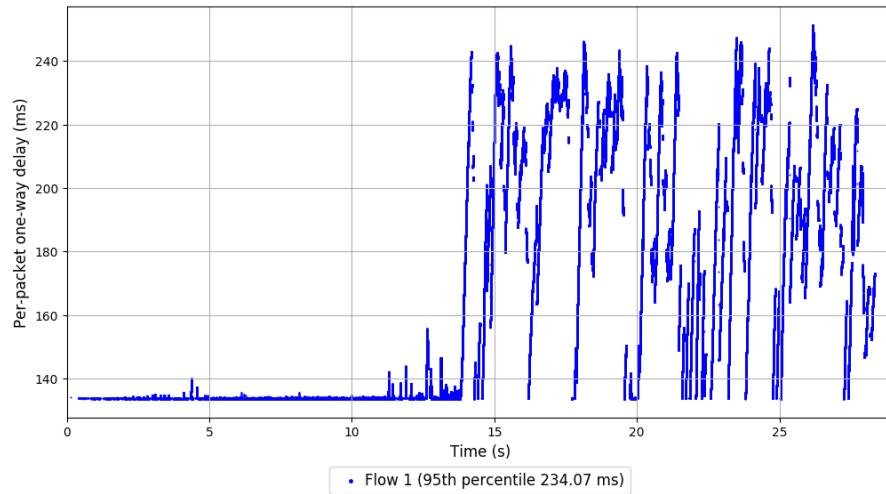
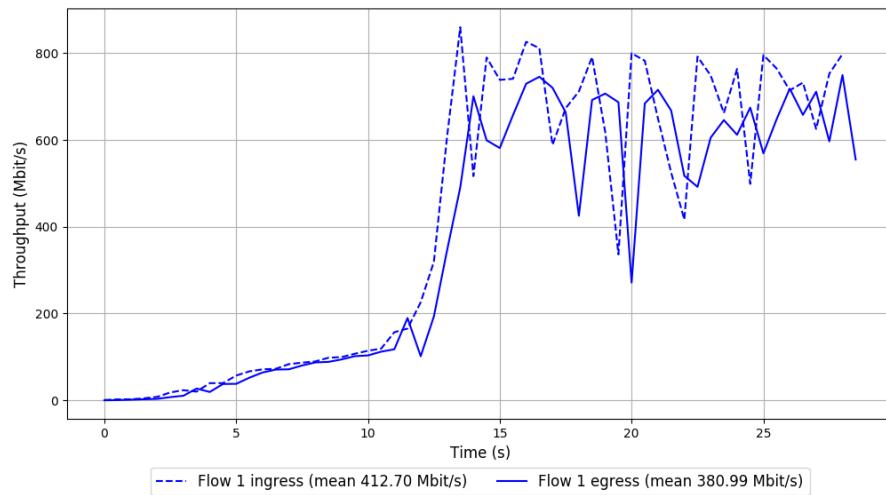


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 07:01:24
End at: 2019-01-19 07:01:54
Local clock offset: 0.324 ms
Remote clock offset: -0.511 ms

# Below is generated by plot.py at 2019-01-19 09:02:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.99 Mbit/s
95th percentile per-packet one-way delay: 234.071 ms
Loss rate: 8.55%
-- Flow 1:
Average throughput: 380.99 Mbit/s
95th percentile per-packet one-way delay: 234.071 ms
Loss rate: 8.55%
```

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

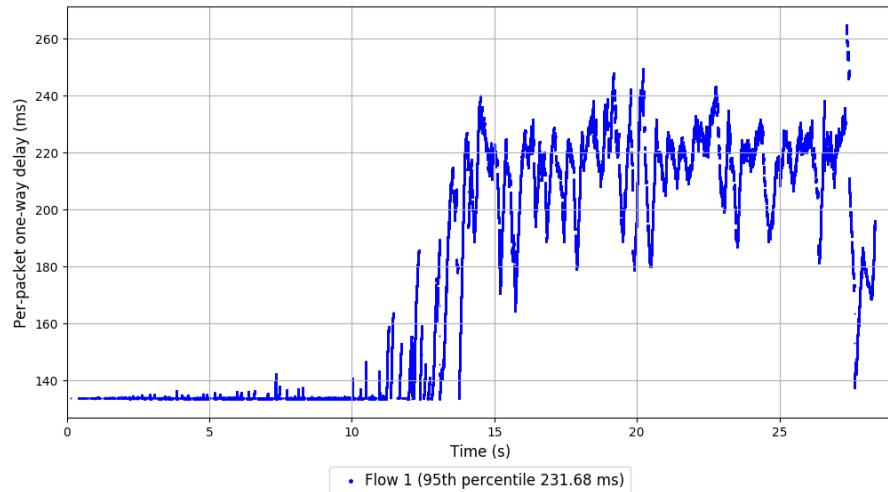
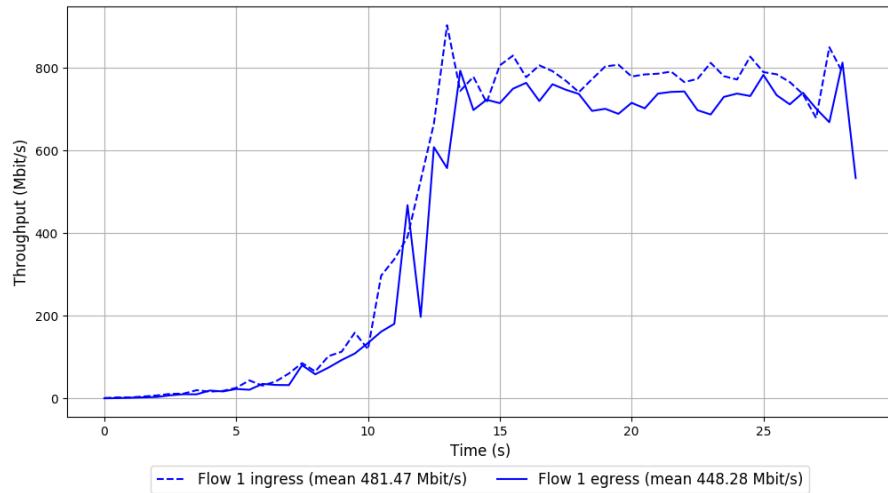


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 07:35:16
End at: 2019-01-19 07:35:46
Local clock offset: 0.288 ms
Remote clock offset: 0.221 ms

# Below is generated by plot.py at 2019-01-19 09:04:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 448.28 Mbit/s
95th percentile per-packet one-way delay: 231.680 ms
Loss rate: 7.77%
-- Flow 1:
Average throughput: 448.28 Mbit/s
95th percentile per-packet one-way delay: 231.680 ms
Loss rate: 7.77%
```

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

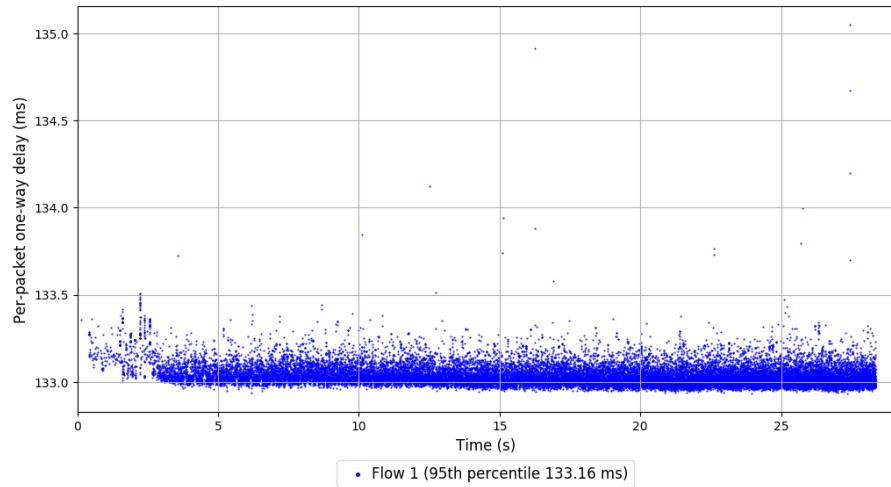
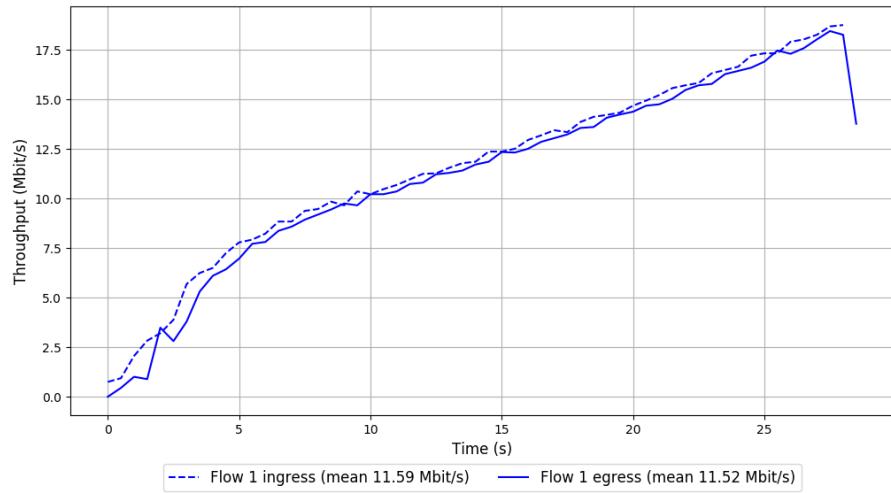


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-01-19 05:33:23
End at: 2019-01-19 05:38:53
Local clock offset: -0.031 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-01-19 09:04:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.52 Mbit/s
95th percentile per-packet one-way delay: 133.157 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 11.52 Mbit/s
95th percentile per-packet one-way delay: 133.157 ms
Loss rate: 1.53%
```

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

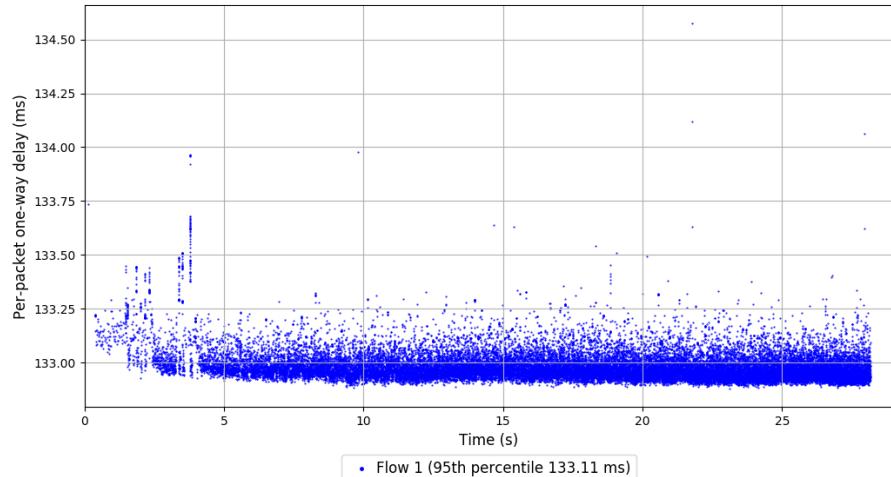
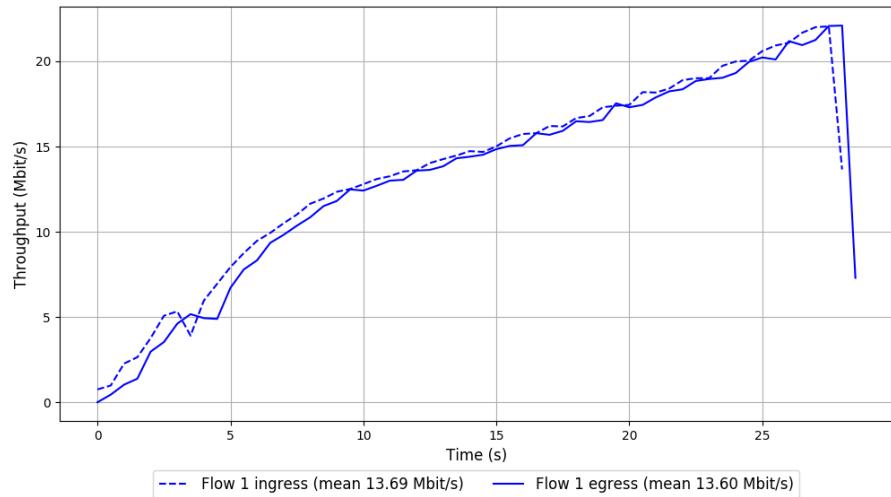


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 06:06:42
End at: 2019-01-19 06:07:12
Local clock offset: -0.006 ms
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2019-01-19 09:04:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 133.111 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 133.111 ms
Loss rate: 1.58%
```

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

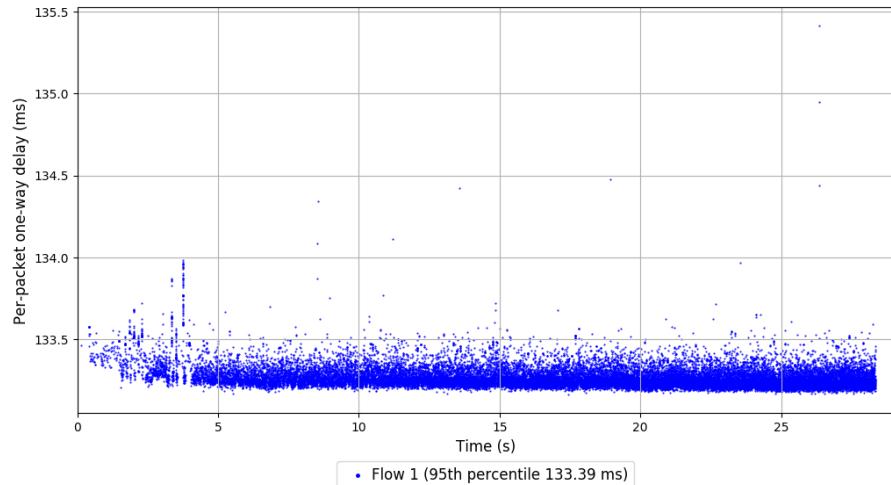
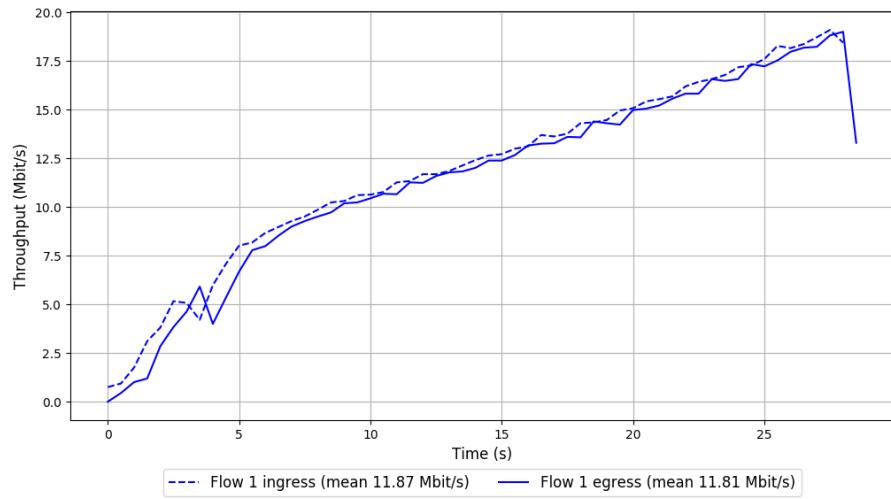


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 06:41:10
End at: 2019-01-19 06:41:40
Local clock offset: 0.375 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-01-19 09:04:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.81 Mbit/s
95th percentile per-packet one-way delay: 133.391 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 11.81 Mbit/s
95th percentile per-packet one-way delay: 133.391 ms
Loss rate: 1.50%
```

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

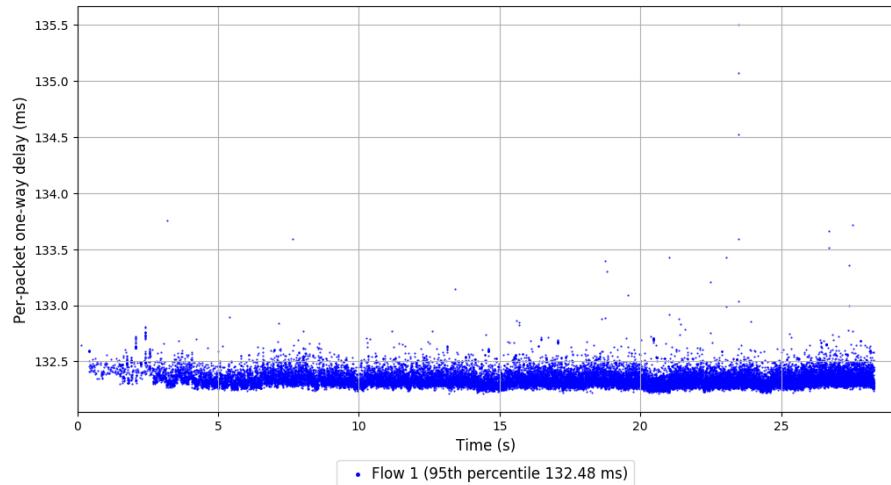
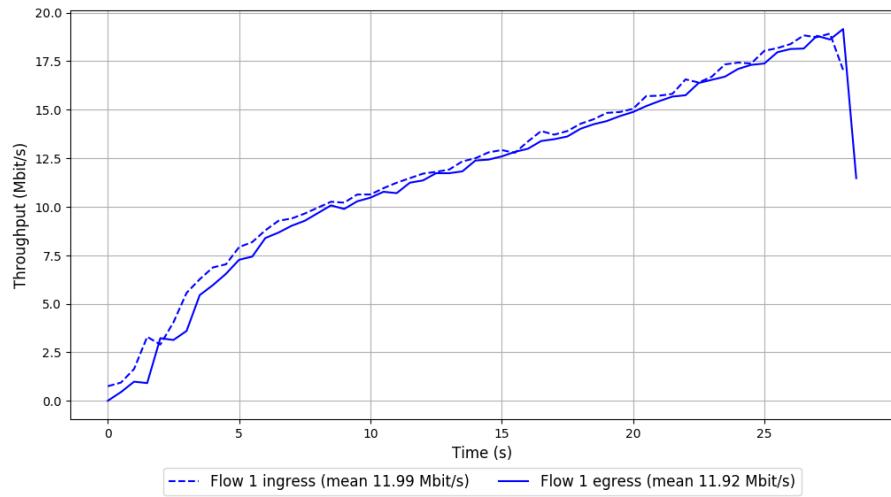


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 07:15:44
End at: 2019-01-19 07:16:14
Local clock offset: -0.499 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-01-19 09:04:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 132.476 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 132.476 ms
Loss rate: 1.54%
```

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

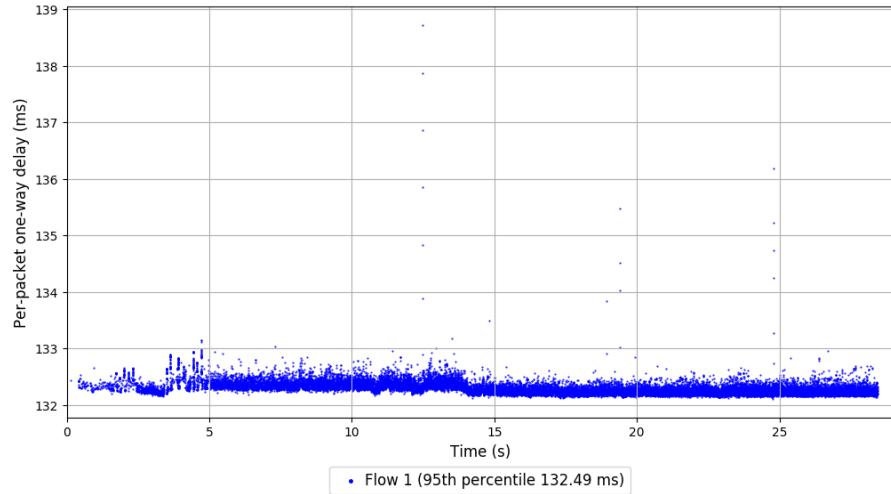
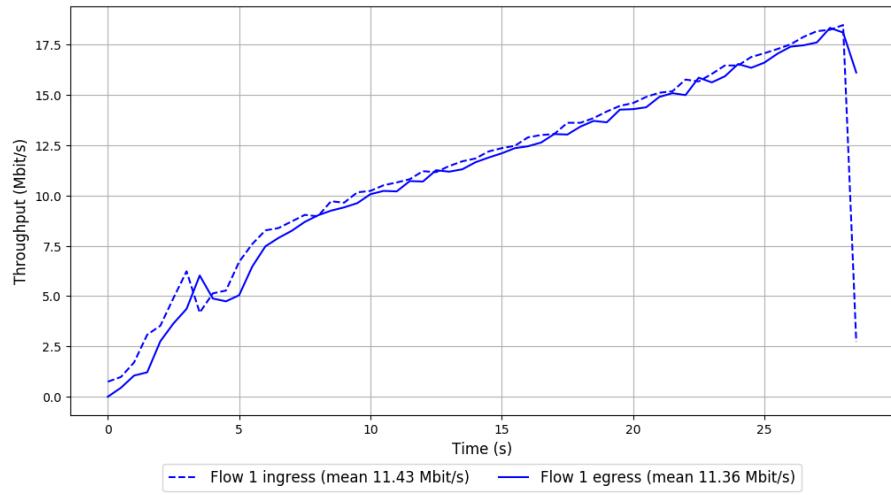


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 07:49:36
End at: 2019-01-19 07:50:06
Local clock offset: -0.432 ms
Remote clock offset: 0.2 ms

# Below is generated by plot.py at 2019-01-19 09:04:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.36 Mbit/s
95th percentile per-packet one-way delay: 132.493 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 11.36 Mbit/s
95th percentile per-packet one-way delay: 132.493 ms
Loss rate: 1.52%
```

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

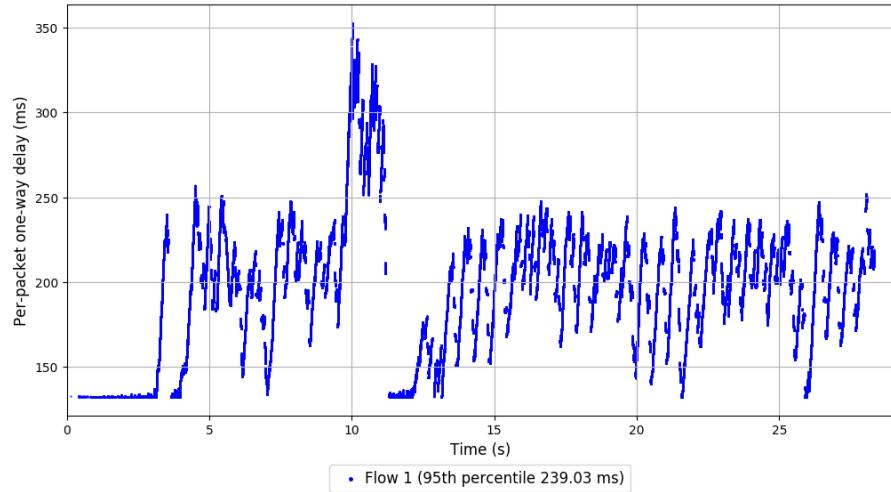
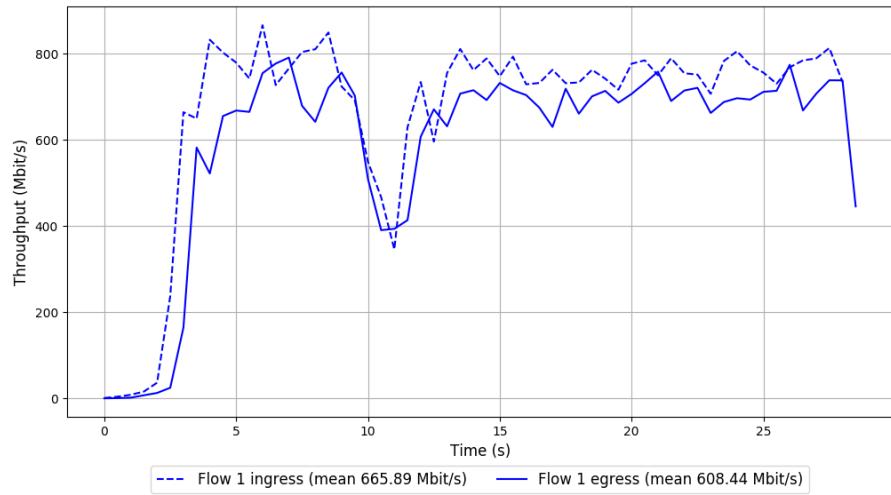


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 05:20:59
End at: 2019-01-19 05:21:29
Local clock offset: -0.46 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-01-19 09:09:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.44 Mbit/s
95th percentile per-packet one-way delay: 239.034 ms
Loss rate: 9.48%
-- Flow 1:
Average throughput: 608.44 Mbit/s
95th percentile per-packet one-way delay: 239.034 ms
Loss rate: 9.48%
```

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

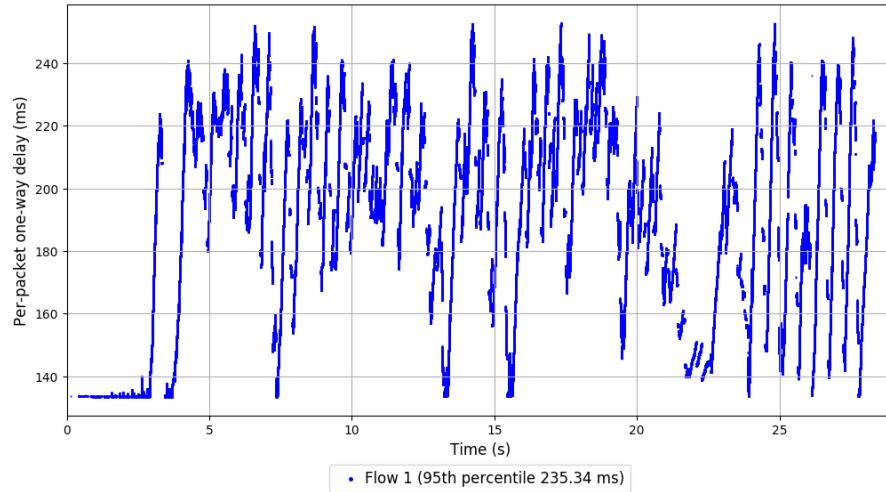
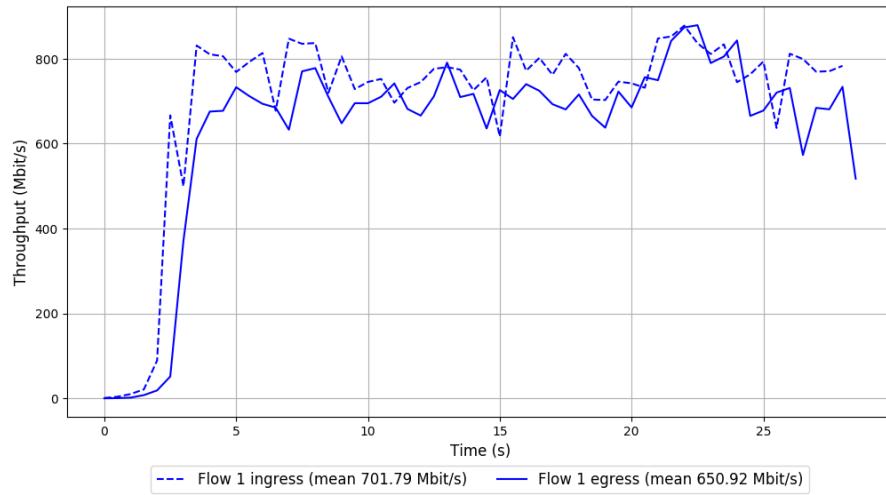


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 05:54:55
End at: 2019-01-19 05:55:25
Local clock offset: 0.415 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-01-19 09:10:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 650.92 Mbit/s
95th percentile per-packet one-way delay: 235.335 ms
Loss rate: 8.12%
-- Flow 1:
Average throughput: 650.92 Mbit/s
95th percentile per-packet one-way delay: 235.335 ms
Loss rate: 8.12%
```

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

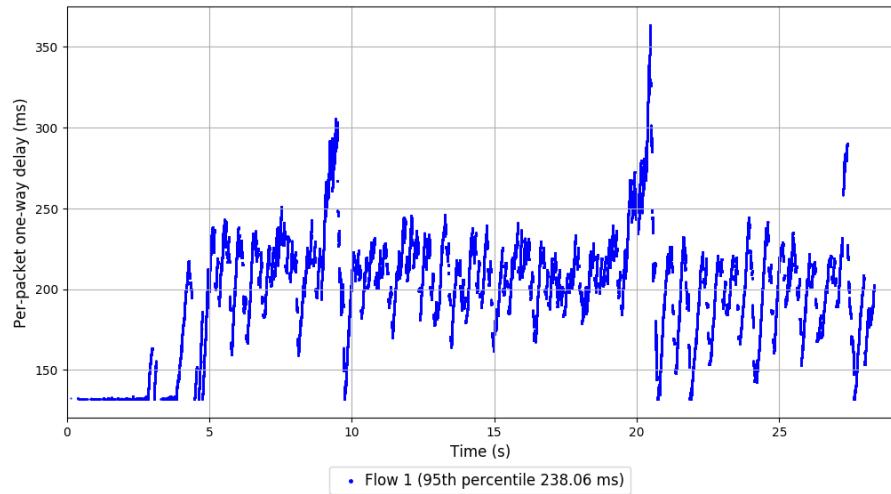
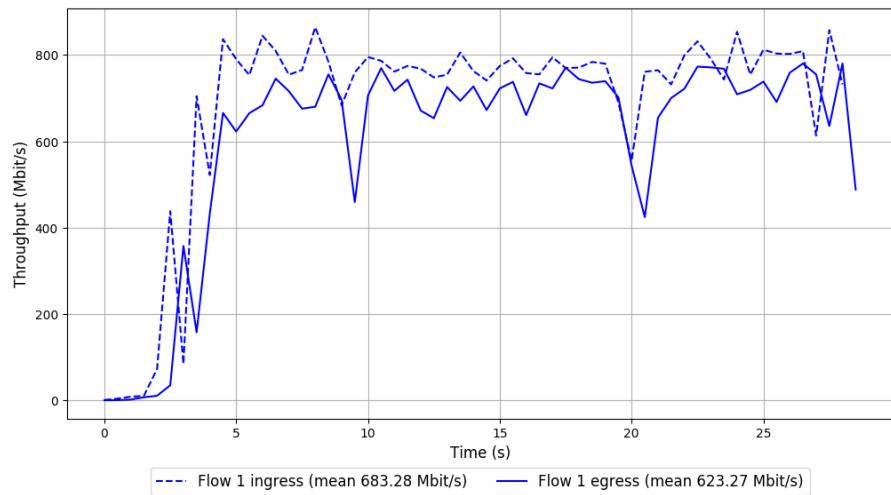


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 06:28:12
End at: 2019-01-19 06:28:42
Local clock offset: -0.035 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-01-19 09:10:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 623.27 Mbit/s
95th percentile per-packet one-way delay: 238.065 ms
Loss rate: 9.63%
-- Flow 1:
Average throughput: 623.27 Mbit/s
95th percentile per-packet one-way delay: 238.065 ms
Loss rate: 9.63%
```

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

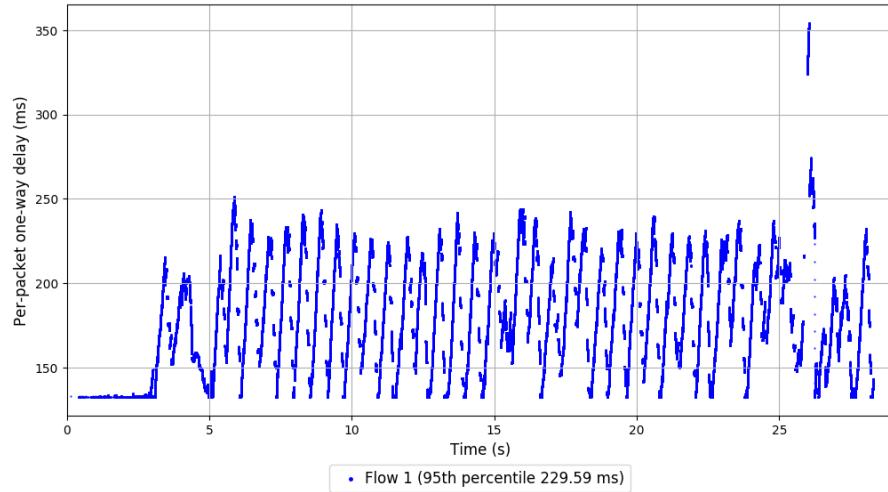
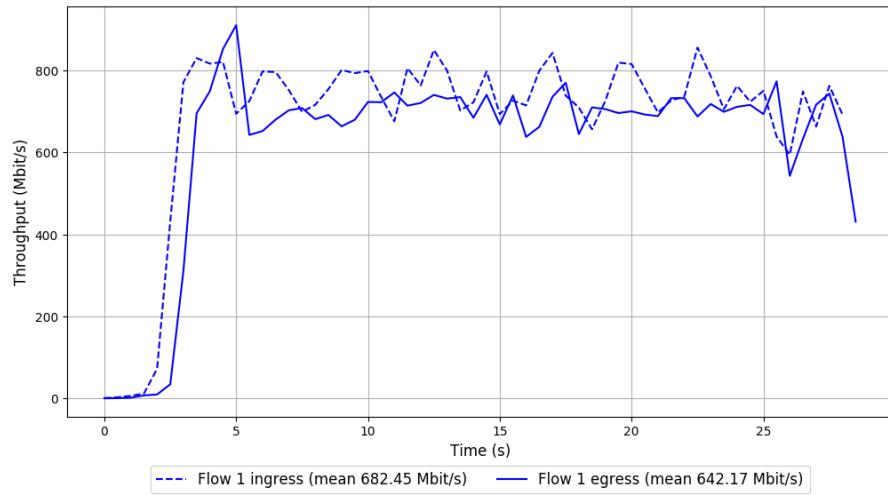


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 07:03:11
End at: 2019-01-19 07:03:41
Local clock offset: -0.153 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-01-19 09:10:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 642.17 Mbit/s
95th percentile per-packet one-way delay: 229.594 ms
Loss rate: 6.79%
-- Flow 1:
Average throughput: 642.17 Mbit/s
95th percentile per-packet one-way delay: 229.594 ms
Loss rate: 6.79%
```

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

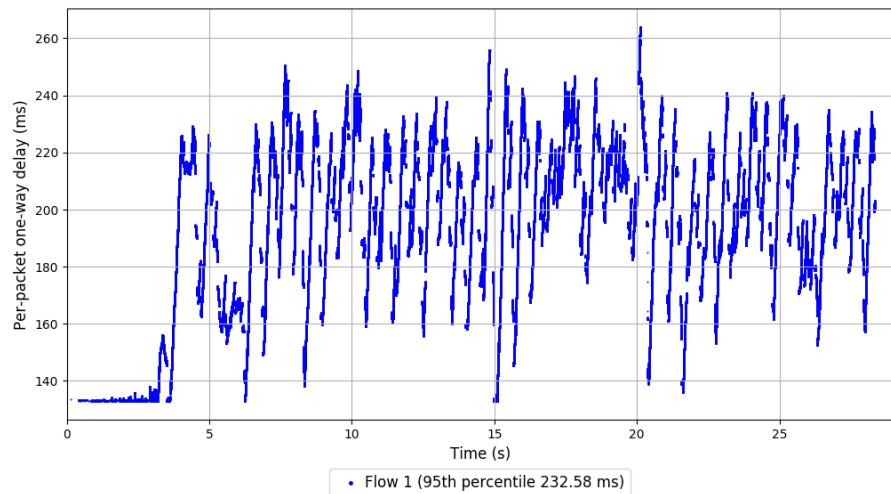
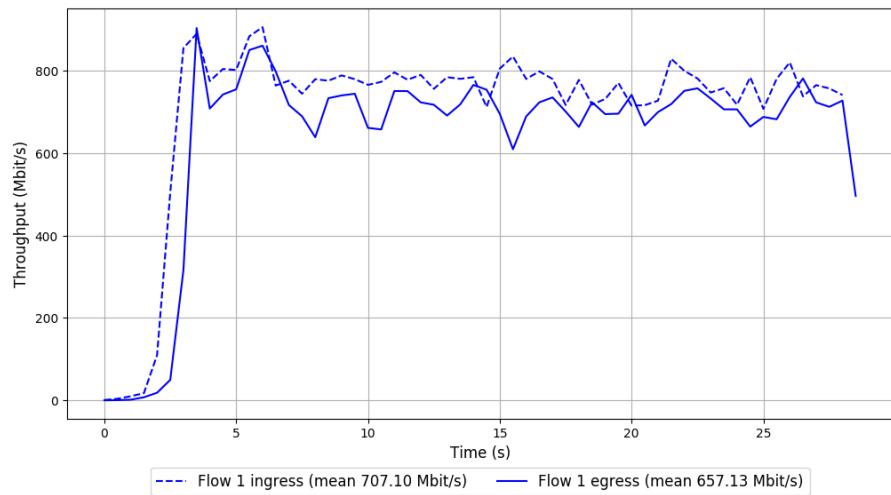


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 07:37:12
End at: 2019-01-19 07:37:42
Local clock offset: -0.184 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-01-19 09:11:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 657.13 Mbit/s
95th percentile per-packet one-way delay: 232.578 ms
Loss rate: 7.94%
-- Flow 1:
Average throughput: 657.13 Mbit/s
95th percentile per-packet one-way delay: 232.578 ms
Loss rate: 7.94%
```

Run 5: Report of Indigo-MusesT — Data Link

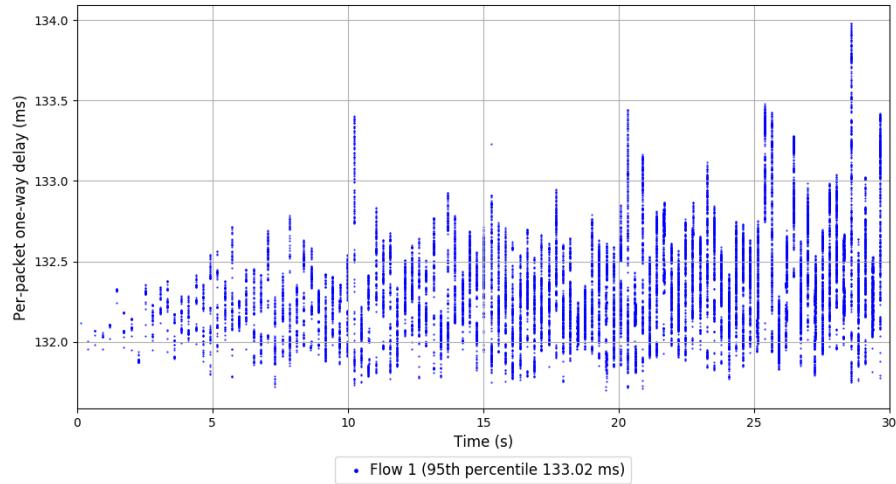
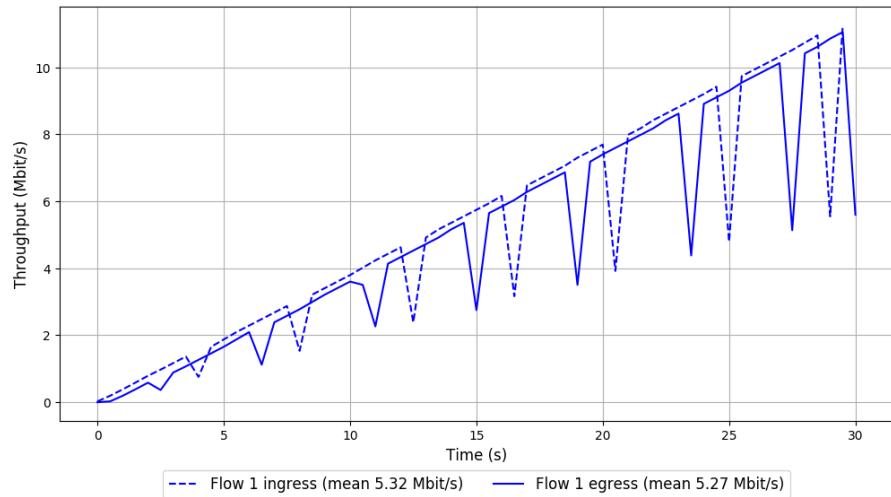


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-19 05:15:23
End at: 2019-01-19 05:15:53
Local clock offset: -0.277 ms
Remote clock offset: 0.322 ms

# Below is generated by plot.py at 2019-01-19 09:11:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.27 Mbit/s
95th percentile per-packet one-way delay: 133.024 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.27 Mbit/s
95th percentile per-packet one-way delay: 133.024 ms
Loss rate: 1.78%
```

## Run 1: Report of LEDBAT — Data Link

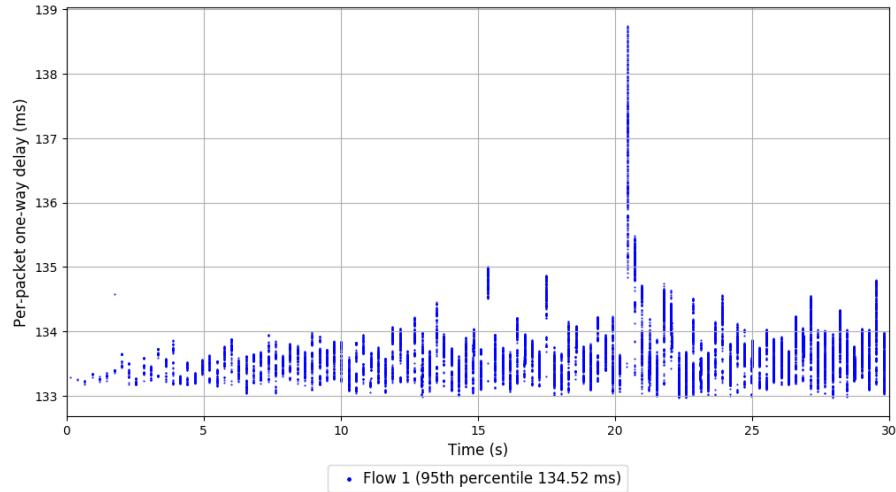
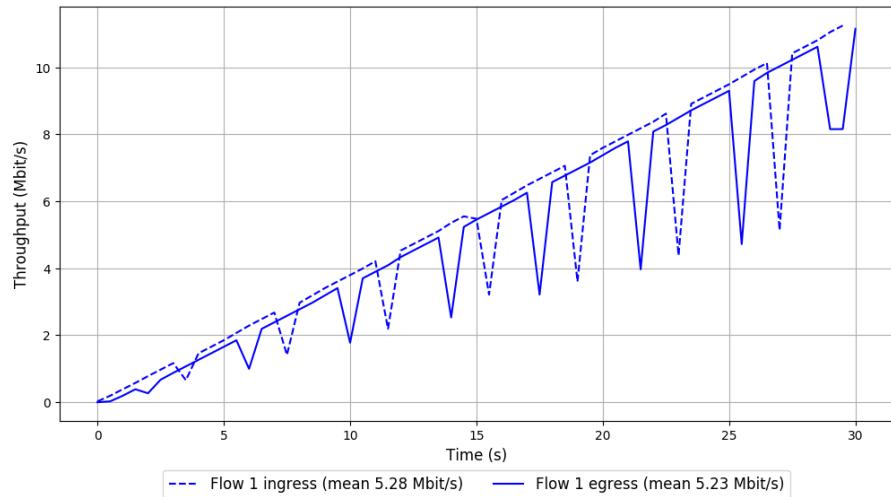


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-19 05:48:53
End at: 2019-01-19 05:49:23
Local clock offset: -0.004 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-01-19 09:11:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 134.521 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 134.521 ms
Loss rate: 1.79%
```

Run 2: Report of LEDBAT — Data Link

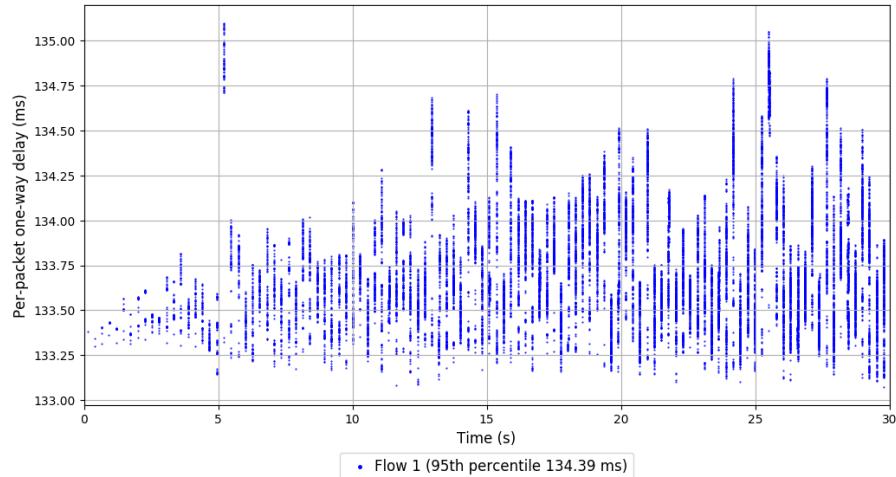
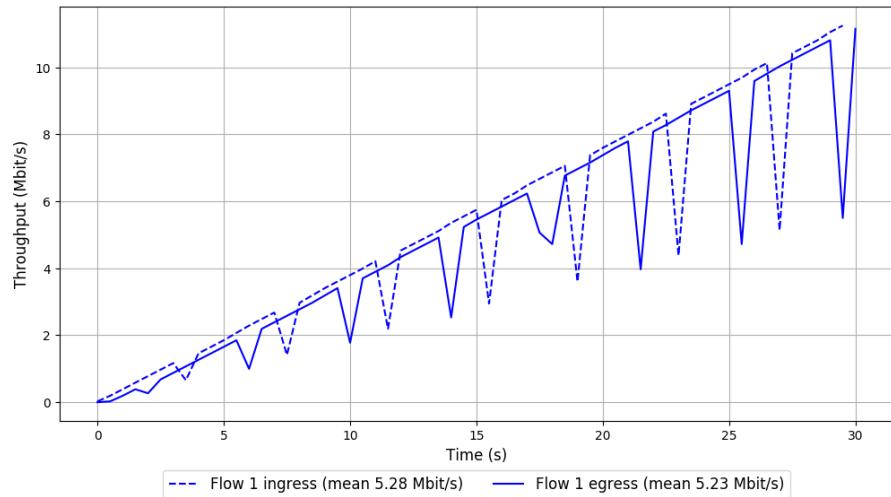


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-19 06:22:10
End at: 2019-01-19 06:22:40
Local clock offset: 0.013 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-01-19 09:11:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 134.390 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 134.390 ms
Loss rate: 1.79%
```

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

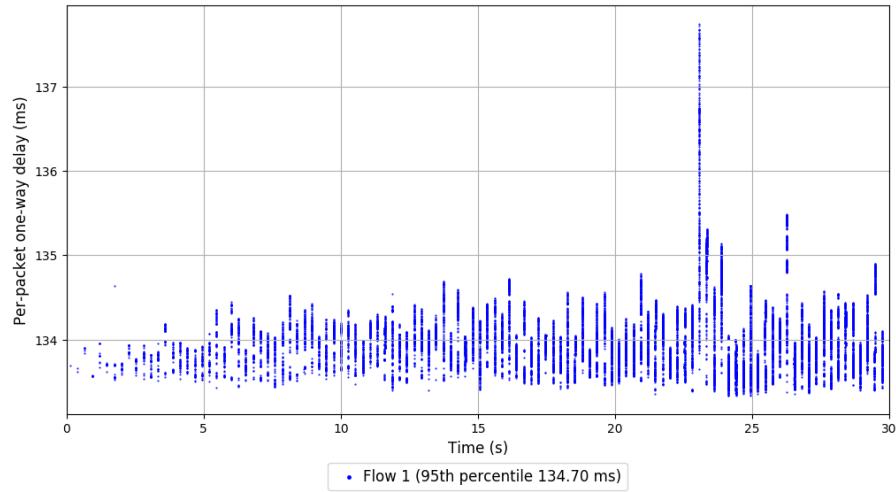
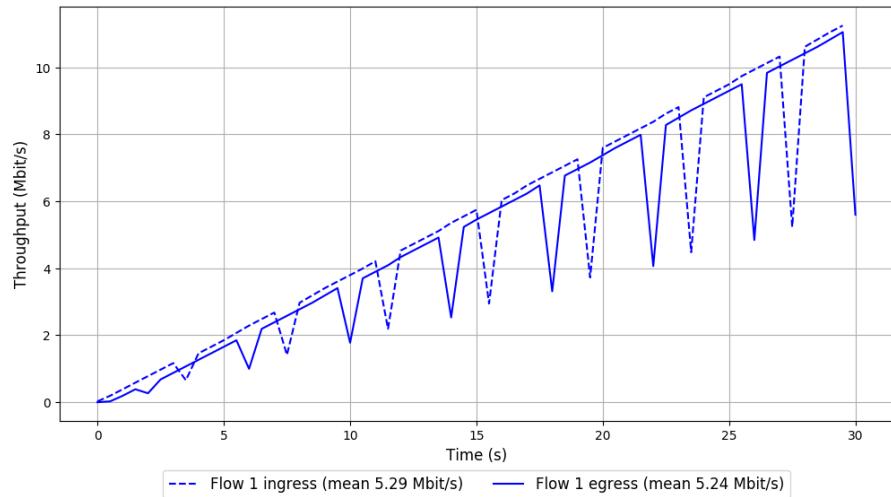


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-19 06:57:04
End at: 2019-01-19 06:57:34
Local clock offset: 0.4 ms
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-01-19 09:11:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 134.698 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 134.698 ms
Loss rate: 1.79%
```

Run 4: Report of LEDBAT — Data Link

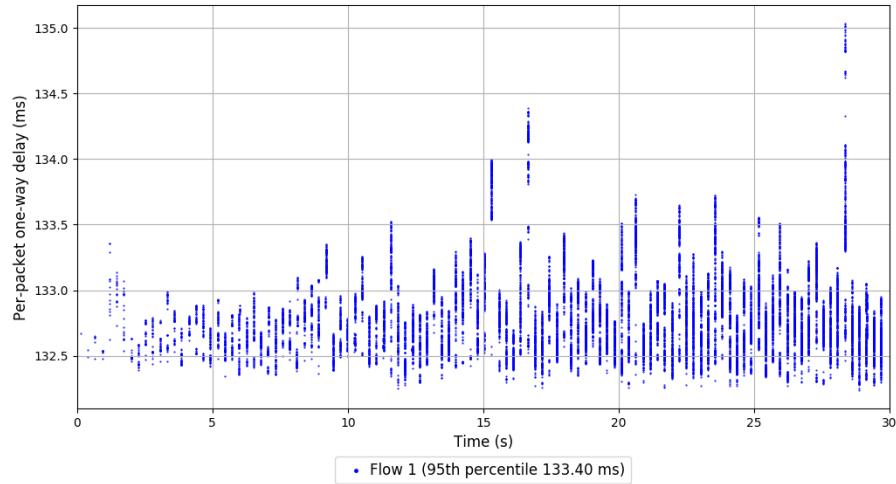
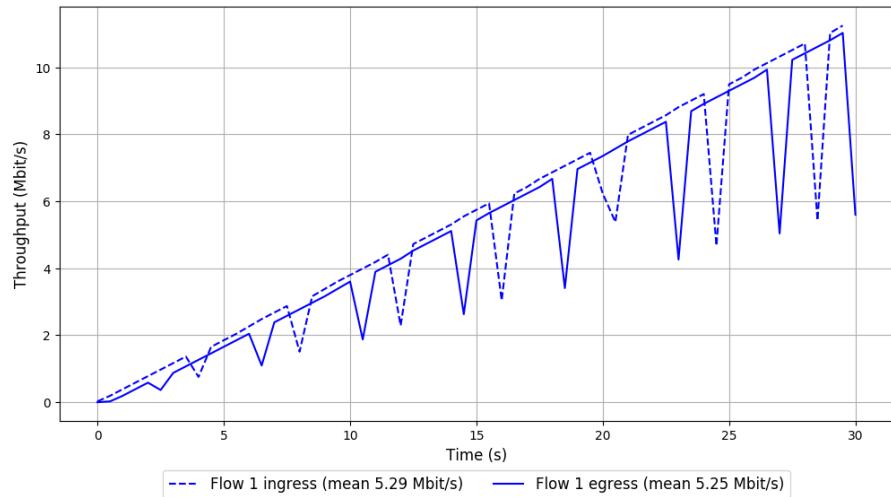


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-19 07:30:51
End at: 2019-01-19 07:31:21
Local clock offset: 0.184 ms
Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2019-01-19 09:11:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 133.400 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 133.400 ms
Loss rate: 1.79%
```

Run 5: Report of LEDBAT — Data Link

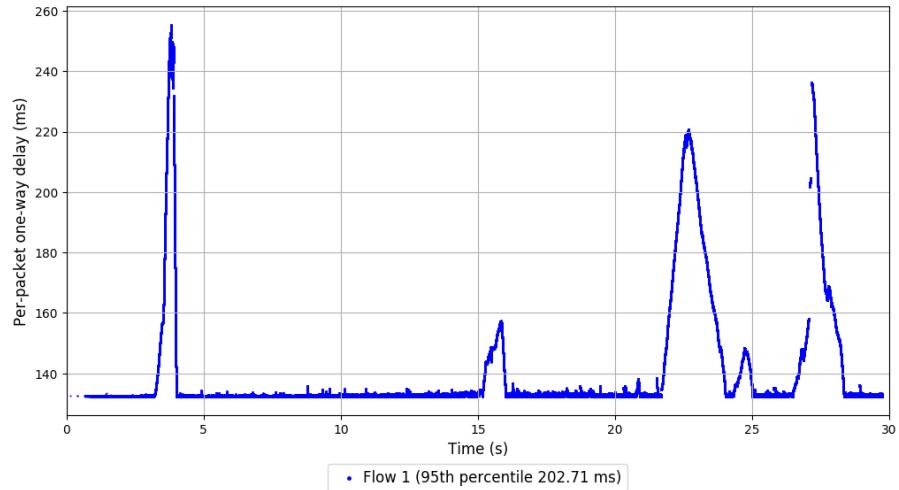
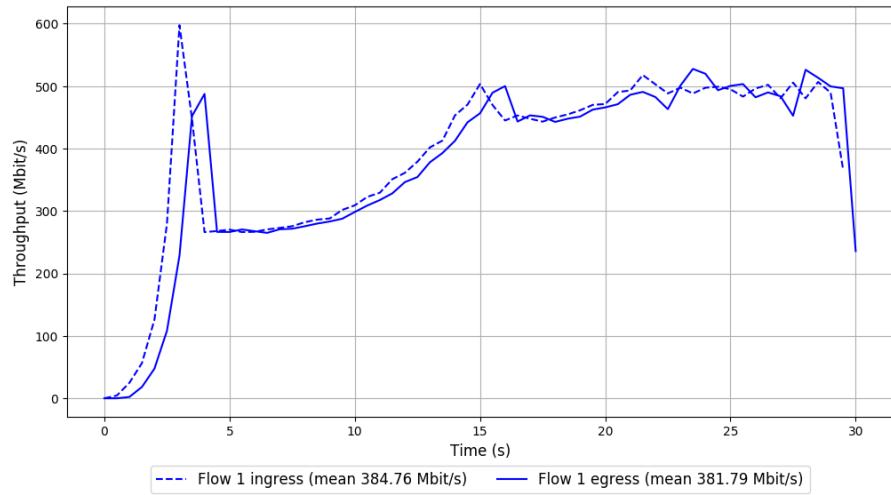


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-19 05:29:34
End at: 2019-01-19 05:30:04
Local clock offset: -0.067 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-01-19 09:16:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 381.79 Mbit/s
95th percentile per-packet one-way delay: 202.712 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 381.79 Mbit/s
95th percentile per-packet one-way delay: 202.712 ms
Loss rate: 1.66%
```

Run 1: Report of PCC-Allegro — Data Link

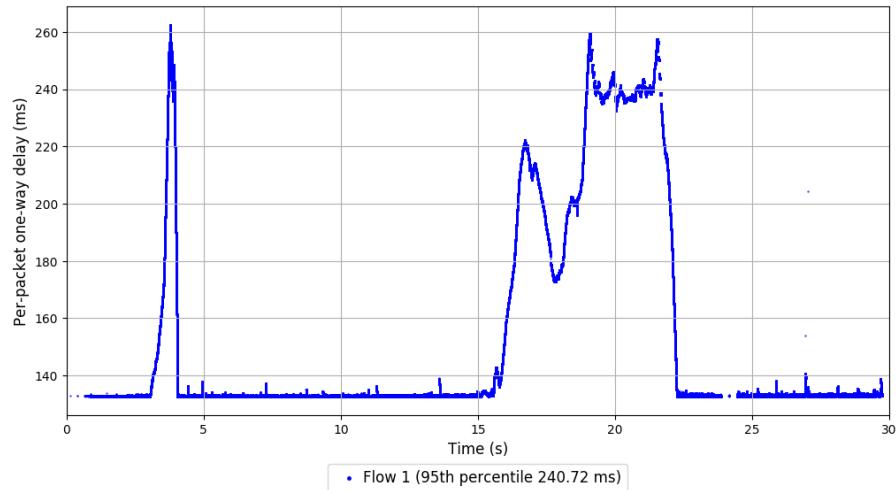
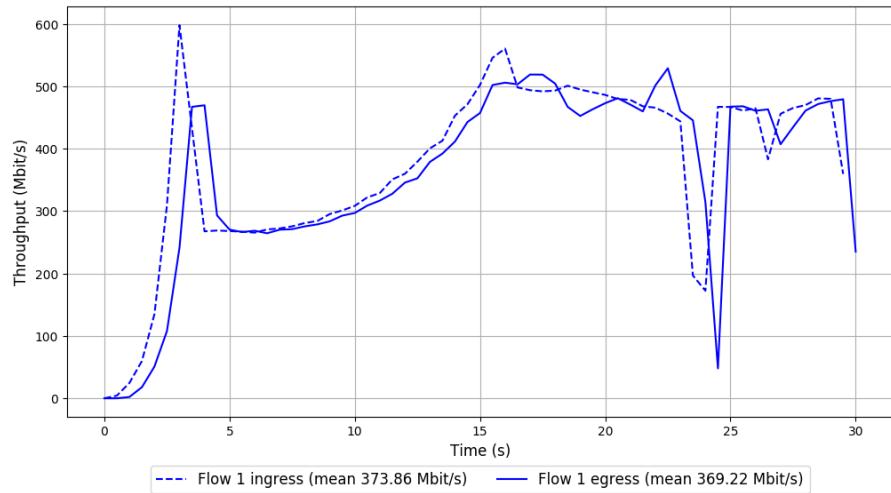


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-19 06:03:10
End at: 2019-01-19 06:03:40
Local clock offset: -0.278 ms
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2019-01-19 09:16:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.22 Mbit/s
95th percentile per-packet one-way delay: 240.725 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 369.22 Mbit/s
95th percentile per-packet one-way delay: 240.725 ms
Loss rate: 2.12%
```

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

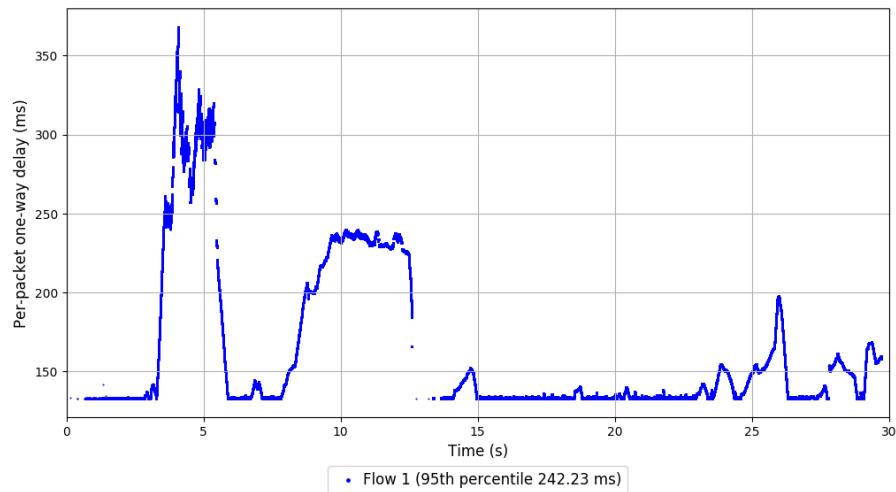
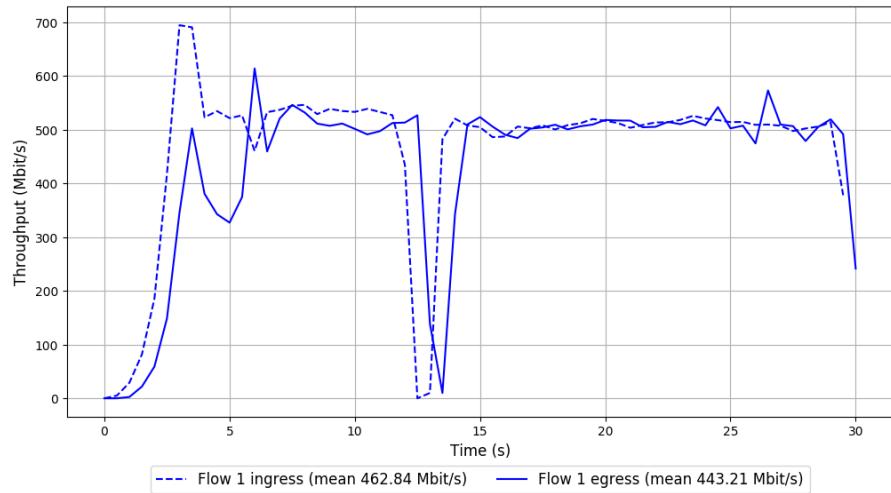


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-19 06:37:18
End at: 2019-01-19 06:37:48
Local clock offset: -0.027 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2019-01-19 09:23:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 443.21 Mbit/s
95th percentile per-packet one-way delay: 242.234 ms
Loss rate: 5.09%
-- Flow 1:
Average throughput: 443.21 Mbit/s
95th percentile per-packet one-way delay: 242.234 ms
Loss rate: 5.09%
```

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

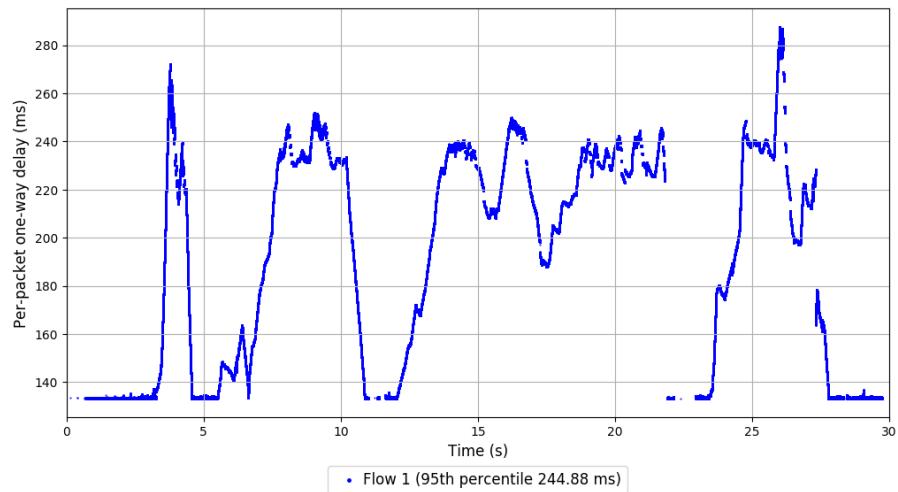
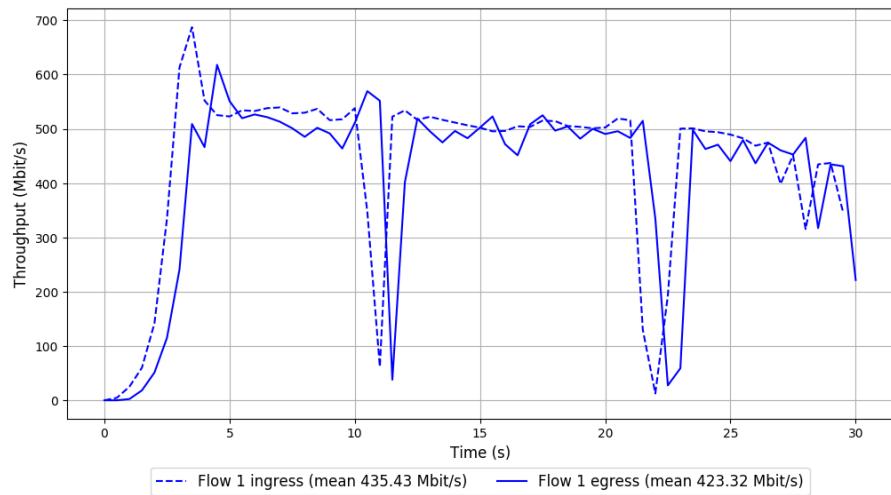


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-19 07:12:06
End at: 2019-01-19 07:12:36
Local clock offset: -0.049 ms
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2019-01-19 09:26:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 423.32 Mbit/s
95th percentile per-packet one-way delay: 244.882 ms
Loss rate: 3.65%
-- Flow 1:
Average throughput: 423.32 Mbit/s
95th percentile per-packet one-way delay: 244.882 ms
Loss rate: 3.65%
```

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

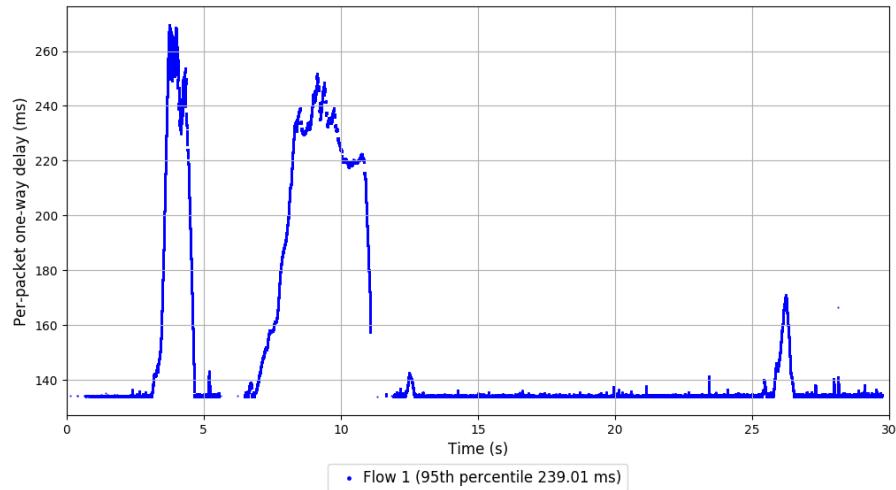
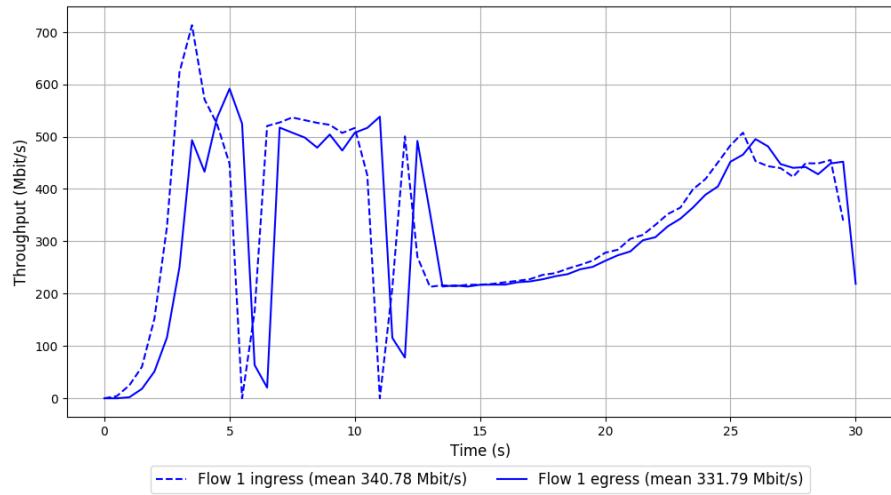


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-19 07:46:17
End at: 2019-01-19 07:46:47
Local clock offset: 0.308 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-01-19 09:26:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.79 Mbit/s
95th percentile per-packet one-way delay: 239.010 ms
Loss rate: 3.51%
-- Flow 1:
Average throughput: 331.79 Mbit/s
95th percentile per-packet one-way delay: 239.010 ms
Loss rate: 3.51%
```

Run 5: Report of PCC-Allegro — Data Link

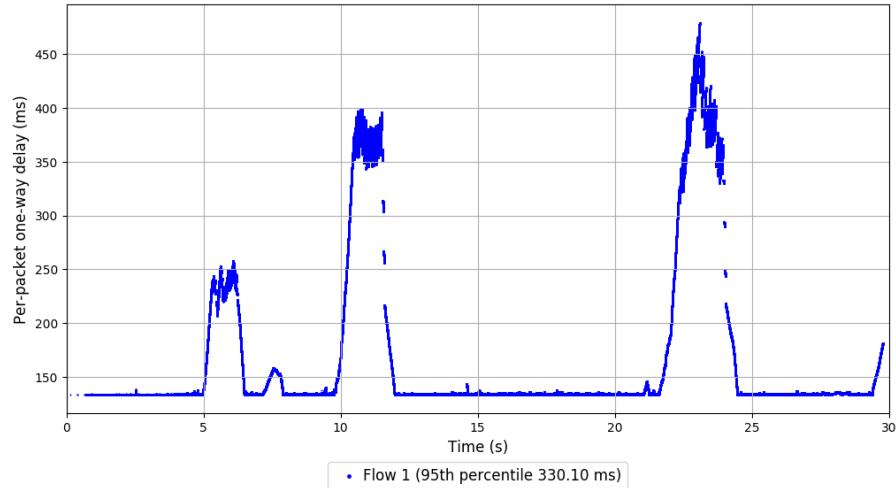
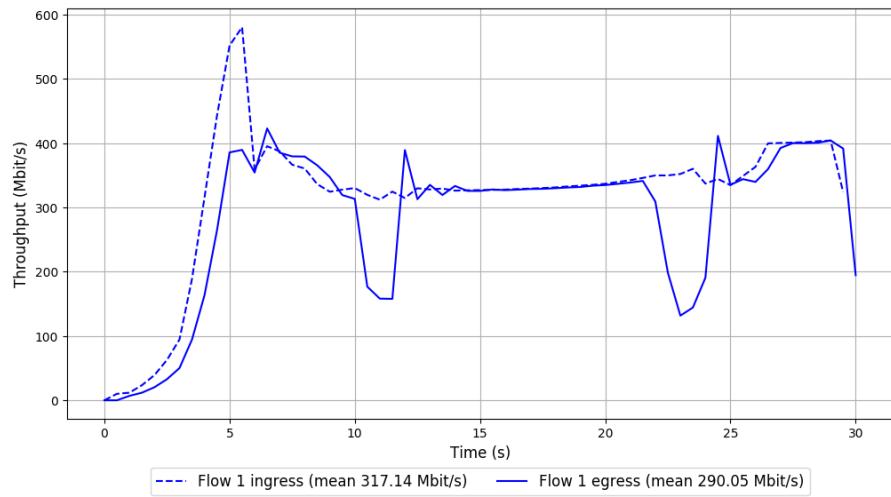


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-19 05:12:11
End at: 2019-01-19 05:12:41
Local clock offset: 0.32 ms
Remote clock offset: -0.384 ms

# Below is generated by plot.py at 2019-01-19 09:26:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 290.05 Mbit/s
95th percentile per-packet one-way delay: 330.100 ms
Loss rate: 9.36%
-- Flow 1:
Average throughput: 290.05 Mbit/s
95th percentile per-packet one-way delay: 330.100 ms
Loss rate: 9.36%
```

Run 1: Report of PCC-Expr — Data Link

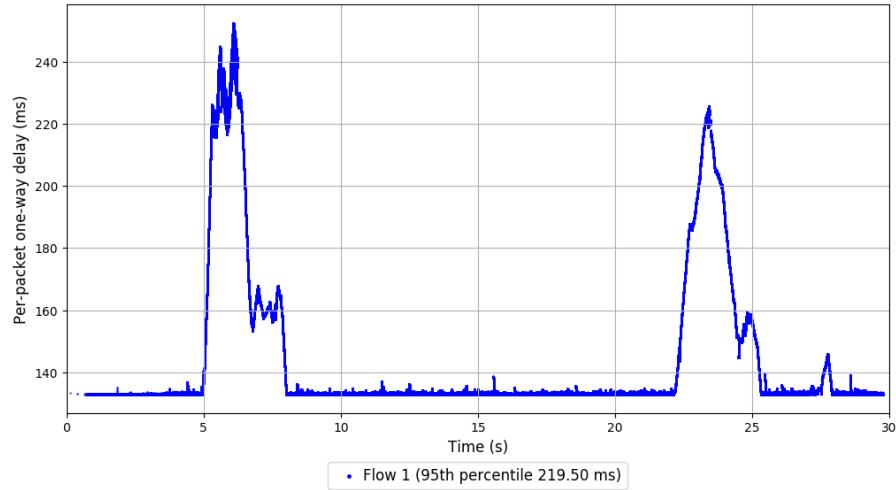
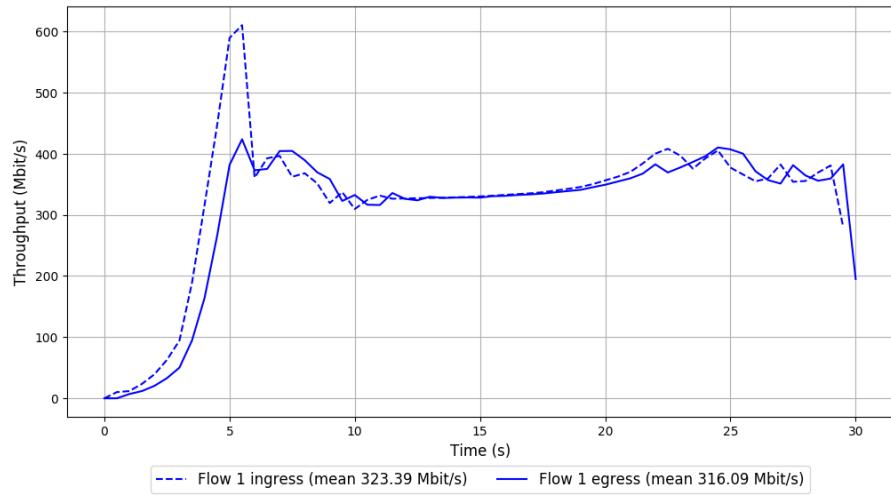


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-19 05:45:37
End at: 2019-01-19 05:46:07
Local clock offset: -0.02 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-01-19 09:26:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 316.09 Mbit/s
95th percentile per-packet one-way delay: 219.505 ms
Loss rate: 3.13%
-- Flow 1:
Average throughput: 316.09 Mbit/s
95th percentile per-packet one-way delay: 219.505 ms
Loss rate: 3.13%
```

Run 2: Report of PCC-Expr — Data Link

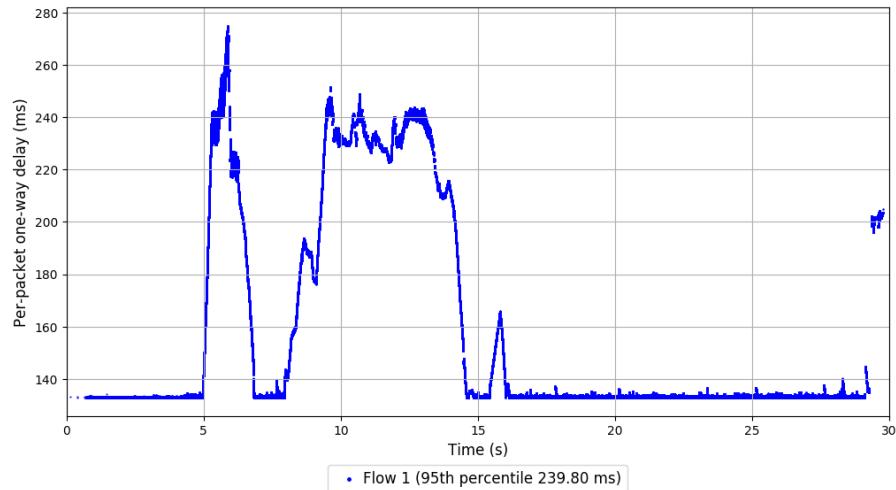
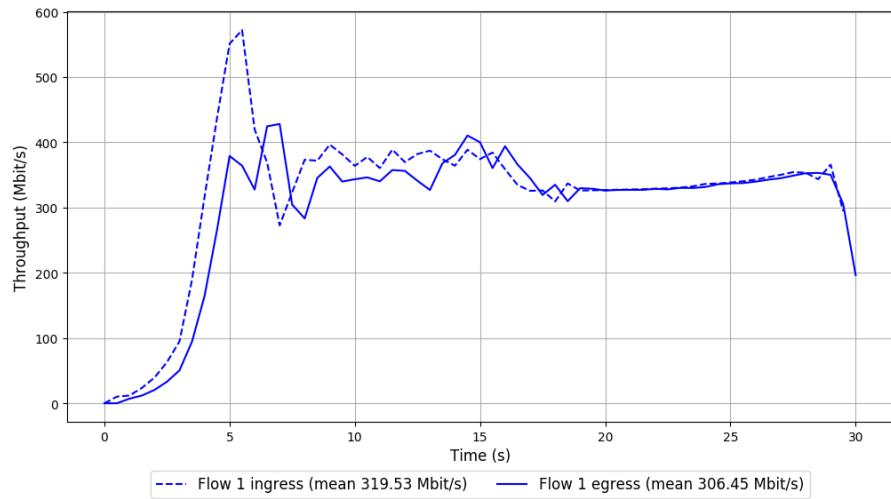


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-19 06:18:39
End at: 2019-01-19 06:19:09
Local clock offset: -0.026 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-01-19 09:26:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.45 Mbit/s
95th percentile per-packet one-way delay: 239.796 ms
Loss rate: 4.94%
-- Flow 1:
Average throughput: 306.45 Mbit/s
95th percentile per-packet one-way delay: 239.796 ms
Loss rate: 4.94%
```

Run 3: Report of PCC-Expr — Data Link

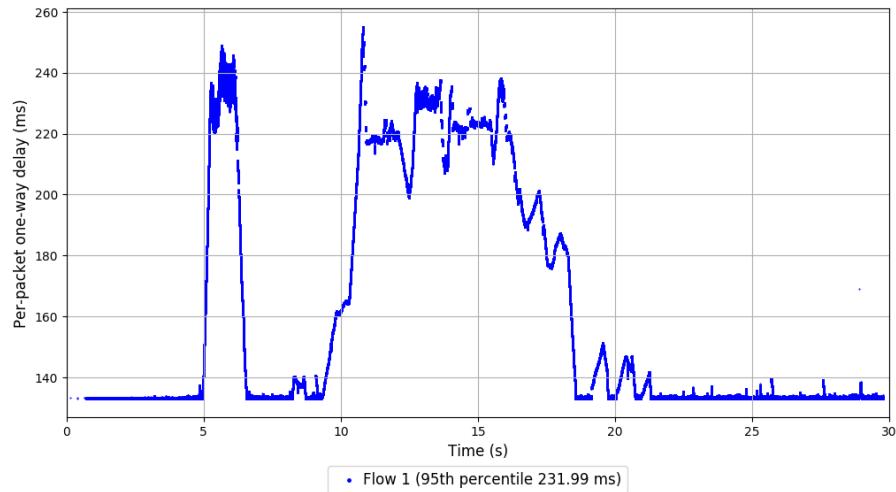
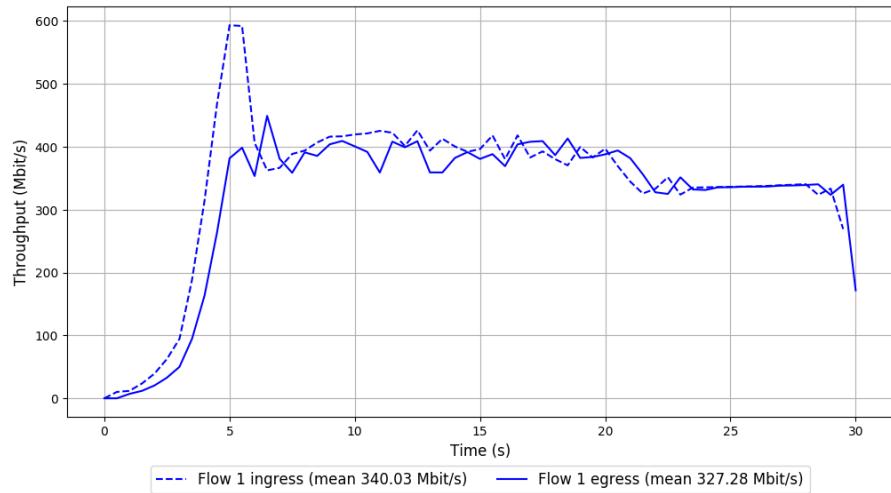


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-19 06:53:45
End at: 2019-01-19 06:54:15
Local clock offset: 0.116 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2019-01-19 09:31:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.28 Mbit/s
95th percentile per-packet one-way delay: 231.994 ms
Loss rate: 4.61%
-- Flow 1:
Average throughput: 327.28 Mbit/s
95th percentile per-packet one-way delay: 231.994 ms
Loss rate: 4.61%
```

Run 4: Report of PCC-Expr — Data Link

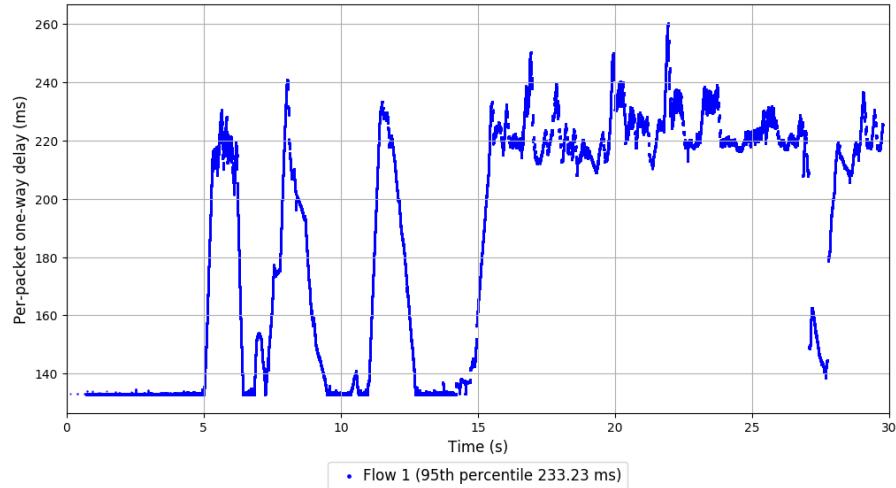
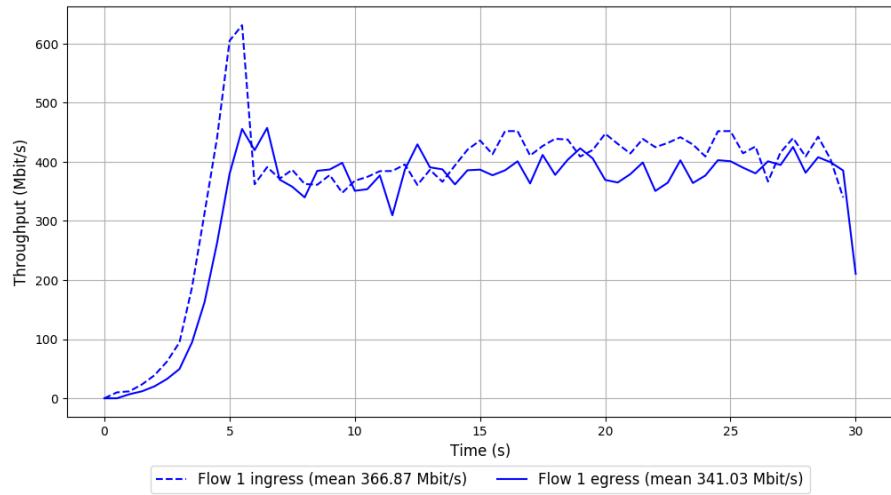


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-19 07:27:17
End at: 2019-01-19 07:27:47
Local clock offset: -0.065 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-01-19 09:31:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.03 Mbit/s
95th percentile per-packet one-way delay: 233.229 ms
Loss rate: 7.87%
-- Flow 1:
Average throughput: 341.03 Mbit/s
95th percentile per-packet one-way delay: 233.229 ms
Loss rate: 7.87%
```

Run 5: Report of PCC-Expr — Data Link

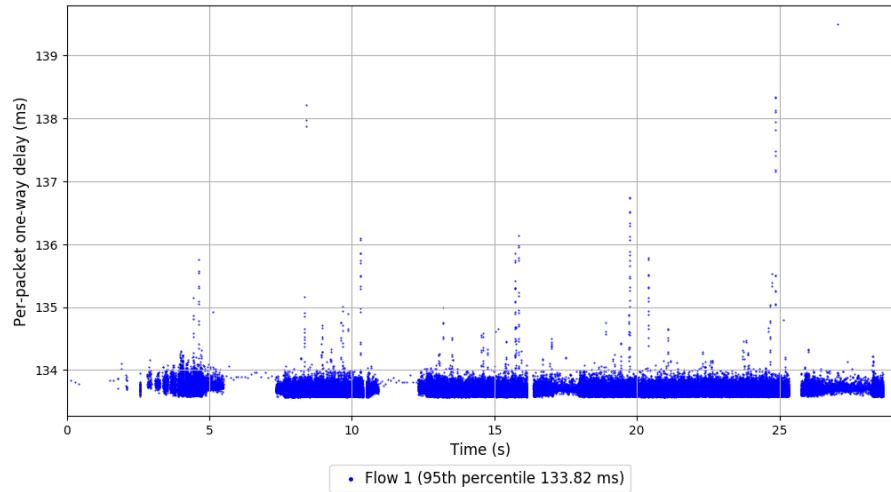
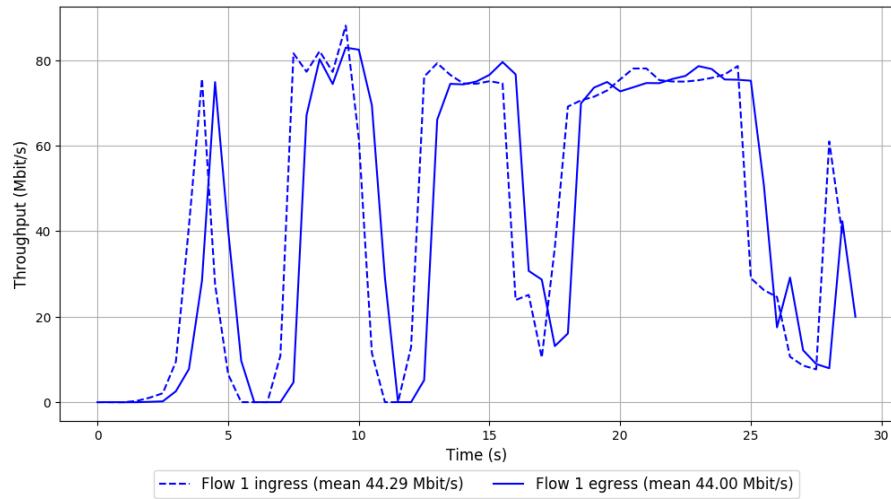


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-01-19 05:02:10
End at: 2019-01-19 05:02:40
Local clock offset: 0.174 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-01-19 09:31:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.00 Mbit/s
95th percentile per-packet one-way delay: 133.818 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 44.00 Mbit/s
95th percentile per-packet one-way delay: 133.818 ms
Loss rate: 1.56%
```

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

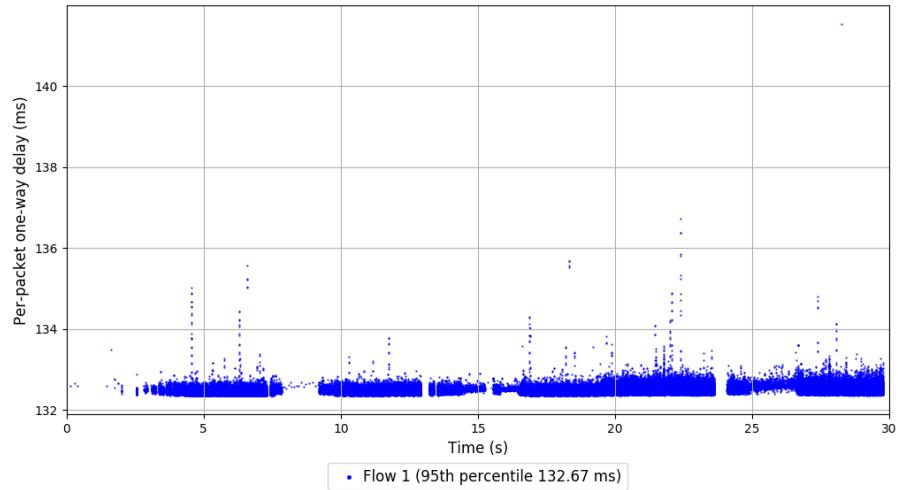
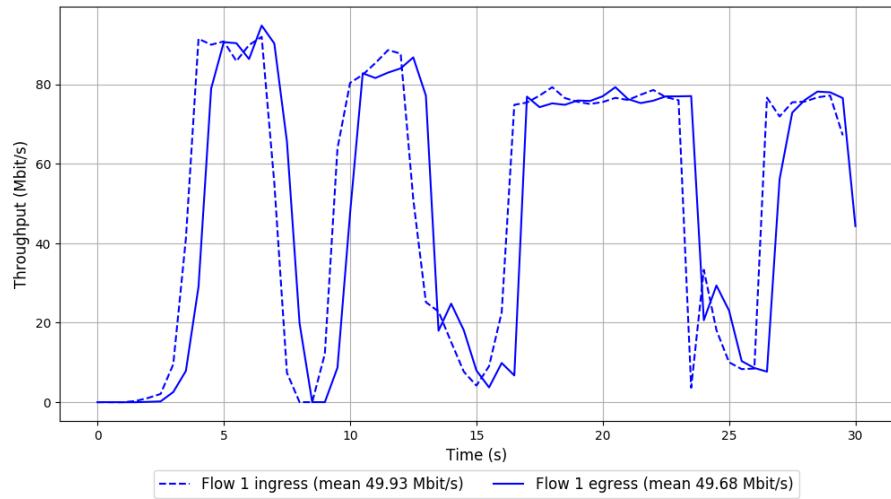


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-19 05:34:35
End at: 2019-01-19 05:35:05
Local clock offset: 0.045 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.68 Mbit/s
95th percentile per-packet one-way delay: 132.669 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 49.68 Mbit/s
95th percentile per-packet one-way delay: 132.669 ms
Loss rate: 1.39%
```

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

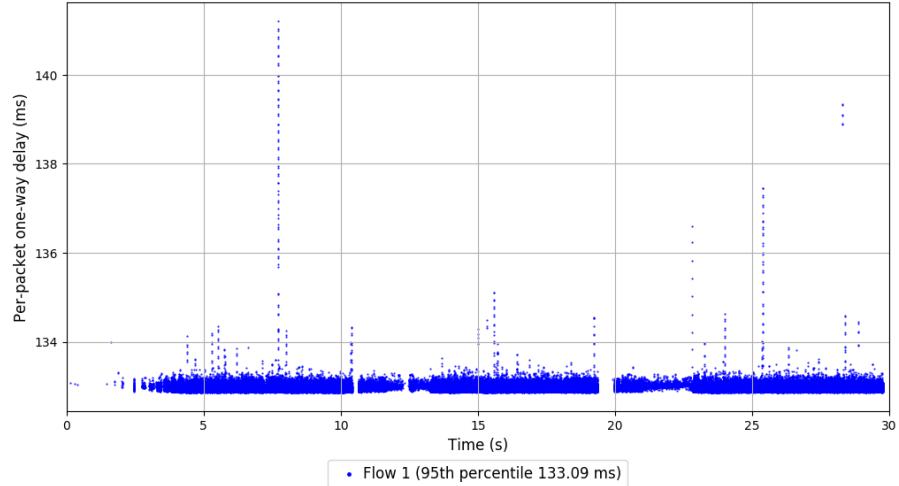
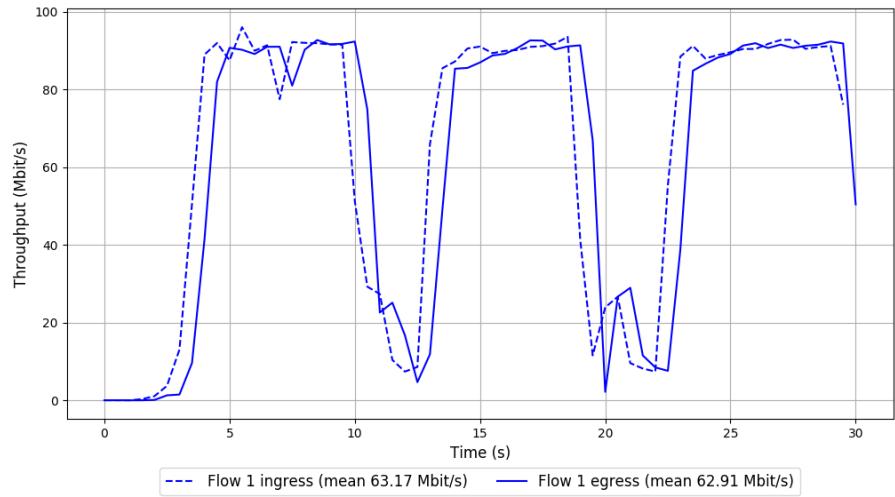


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-19 06:07:54
End at: 2019-01-19 06:08:24
Local clock offset: 0.029 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.91 Mbit/s
95th percentile per-packet one-way delay: 133.093 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 62.91 Mbit/s
95th percentile per-packet one-way delay: 133.093 ms
Loss rate: 1.29%
```

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

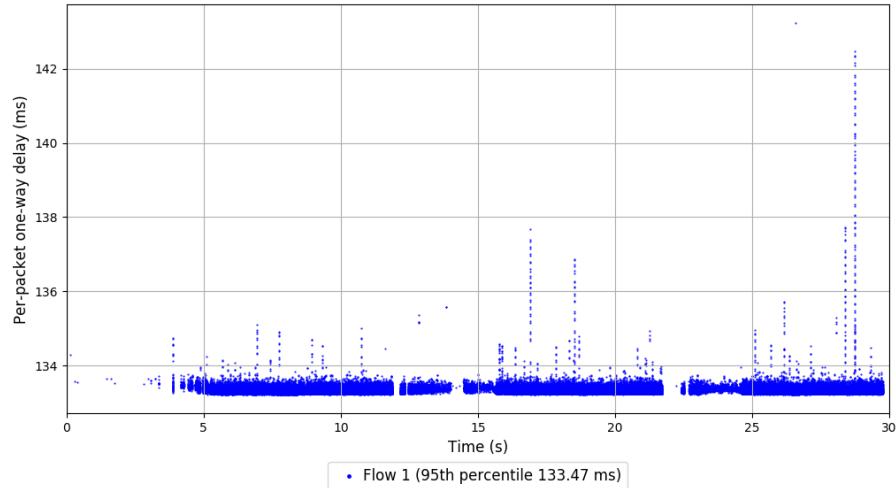
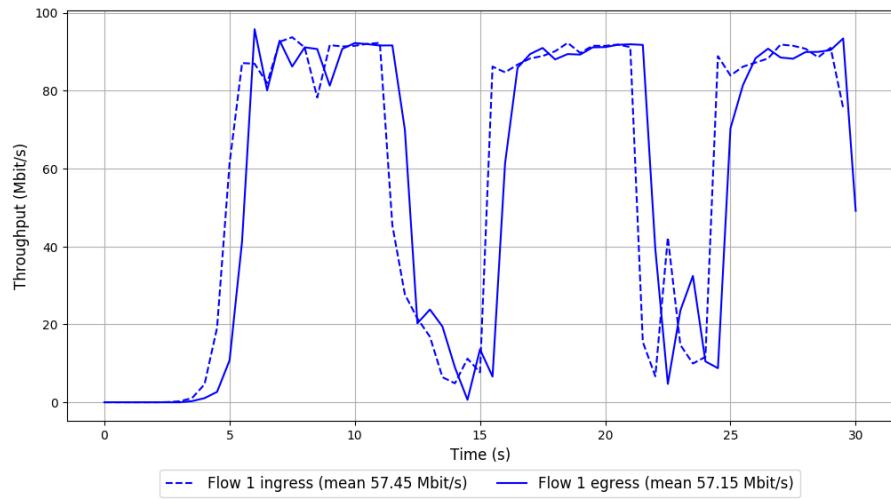


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-19 06:42:23
End at: 2019-01-19 06:42:53
Local clock offset: 0.32 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.15 Mbit/s
95th percentile per-packet one-way delay: 133.470 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 57.15 Mbit/s
95th percentile per-packet one-way delay: 133.470 ms
Loss rate: 1.41%
```

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

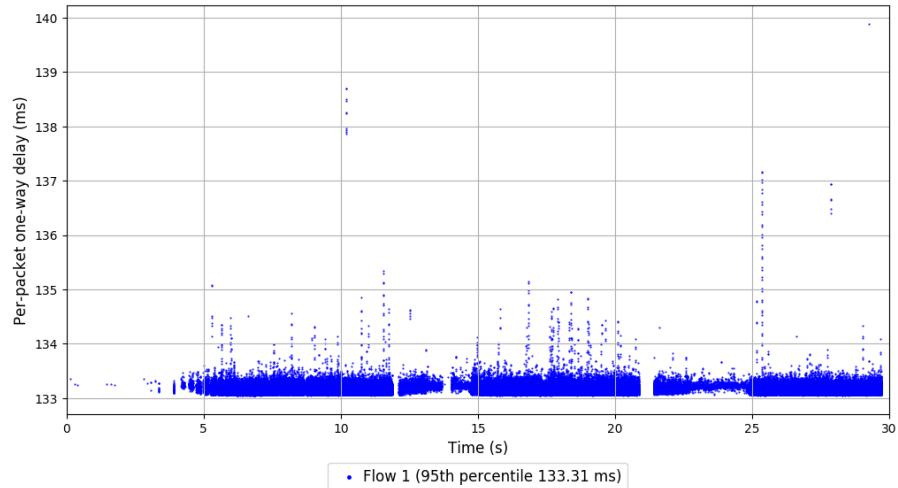
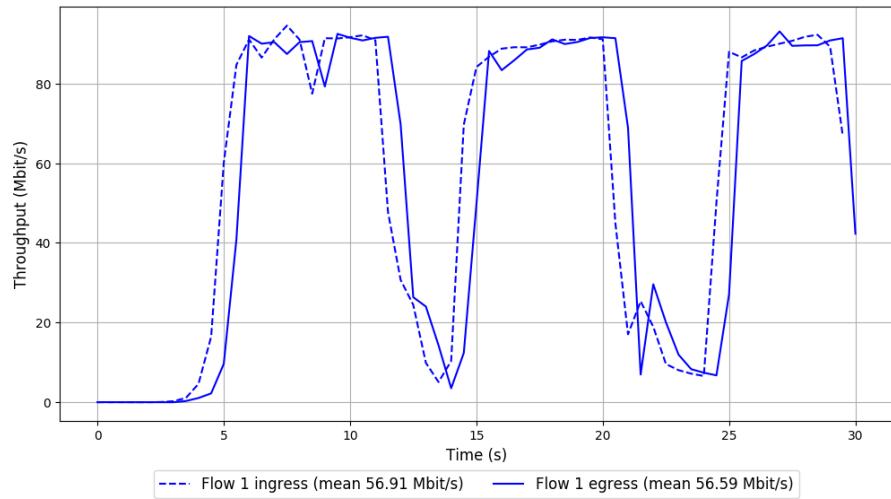


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-19 07:16:57
End at: 2019-01-19 07:17:27
Local clock offset: -0.044 ms
Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.59 Mbit/s
95th percentile per-packet one-way delay: 133.306 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 56.59 Mbit/s
95th percentile per-packet one-way delay: 133.306 ms
Loss rate: 1.44%
```

Run 5: Report of QUIC Cubic — Data Link

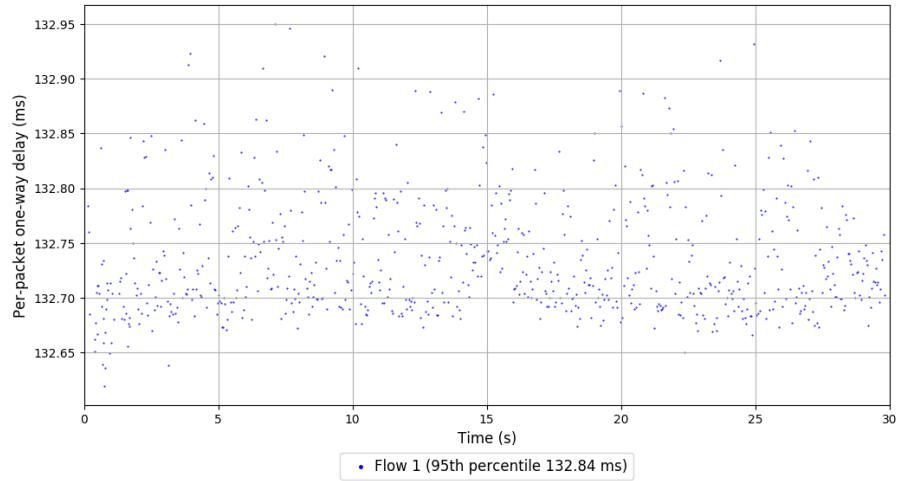
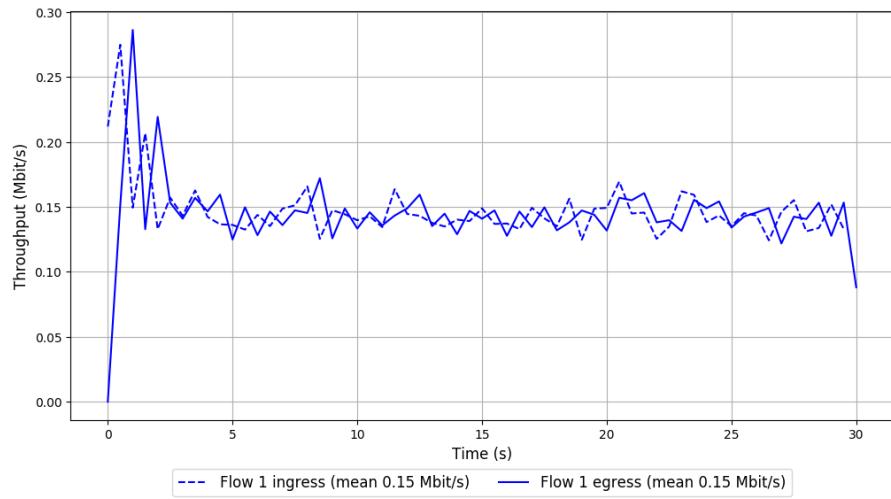


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-01-19 05:04:55
End at: 2019-01-19 05:05:25
Local clock offset: -0.465 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.843 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.843 ms
Loss rate: 0.88%
```

Run 1: Report of SCReAM — Data Link

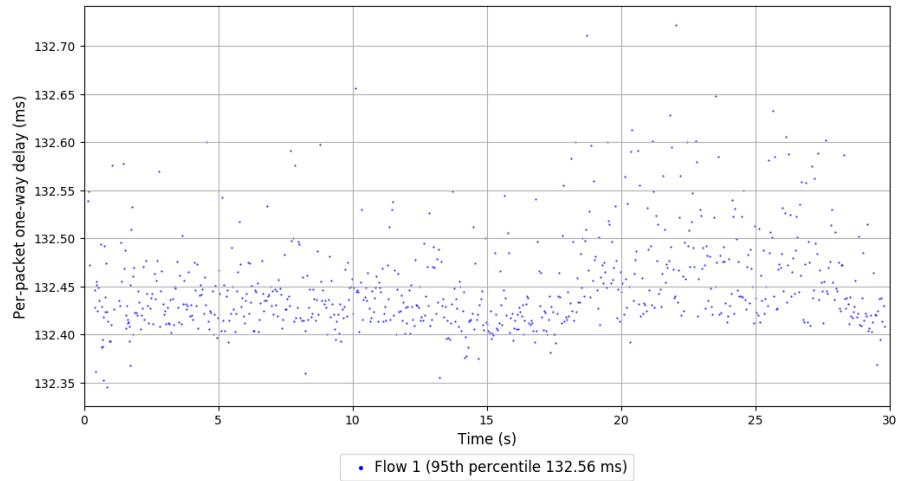
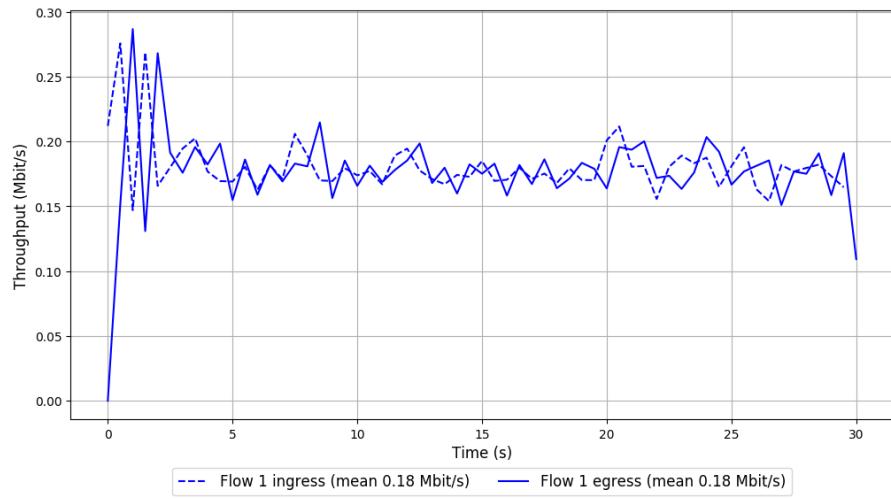


Run 2: Statistics of SCReAM

```
Start at: 2019-01-19 05:37:24
End at: 2019-01-19 05:37:54
Local clock offset: 0.221 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 132.560 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 132.560 ms
Loss rate: 0.89%
```

## Run 2: Report of SCReAM — Data Link

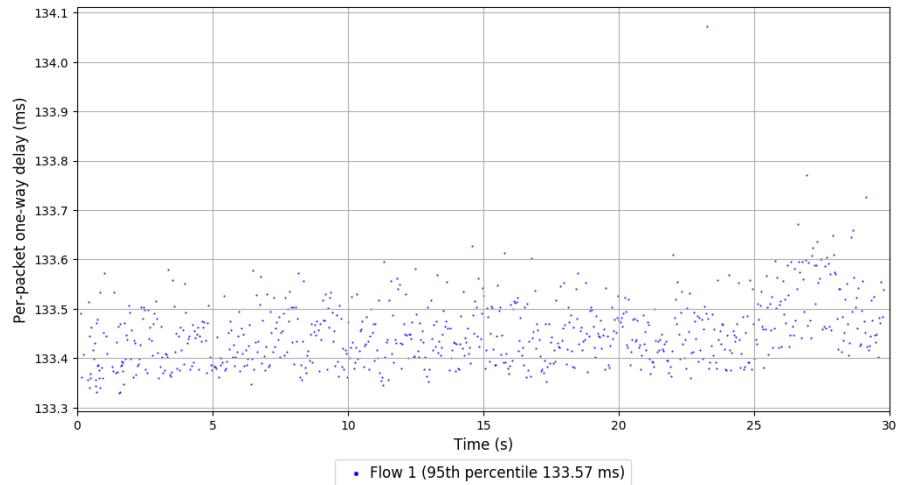
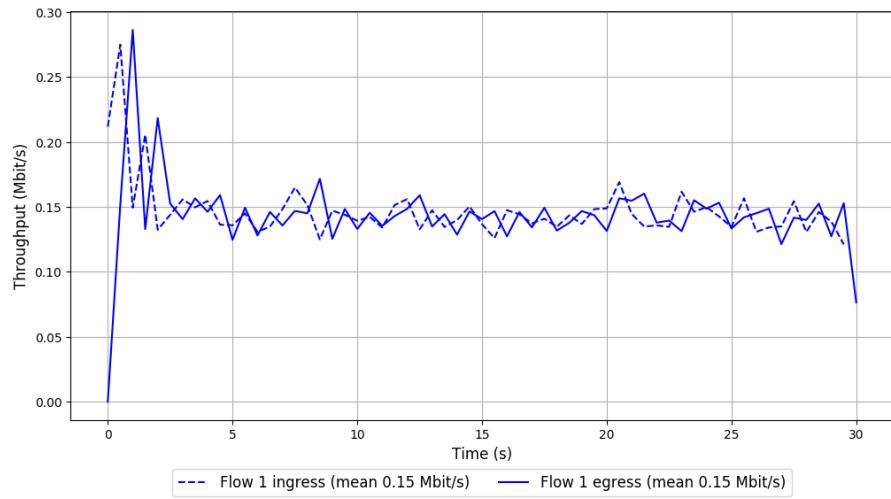


Run 3: Statistics of SCReAM

```
Start at: 2019-01-19 06:10:46
End at: 2019-01-19 06:11:16
Local clock offset: 0.375 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.573 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.573 ms
Loss rate: 0.88%
```

Run 3: Report of SCReAM — Data Link

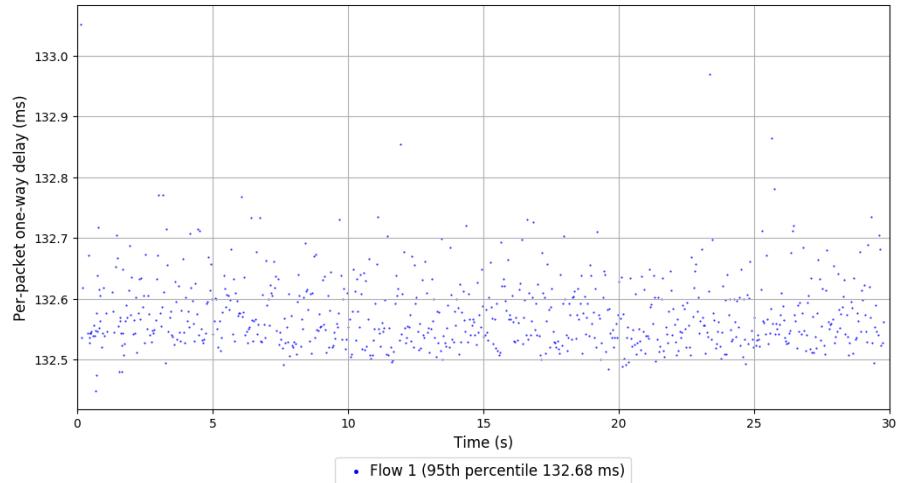
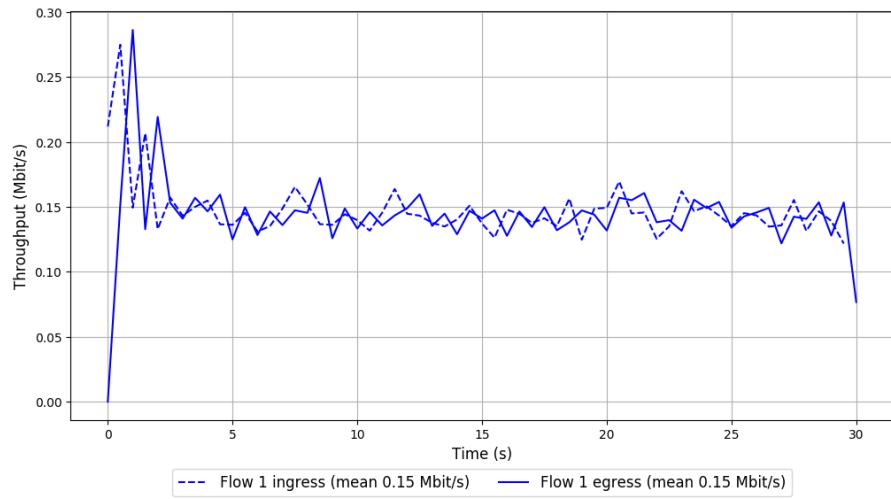


Run 4: Statistics of SCReAM

```
Start at: 2019-01-19 06:45:30
End at: 2019-01-19 06:46:00
Local clock offset: -0.45 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.684 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.684 ms
Loss rate: 0.88%
```

Run 4: Report of SCReAM — Data Link

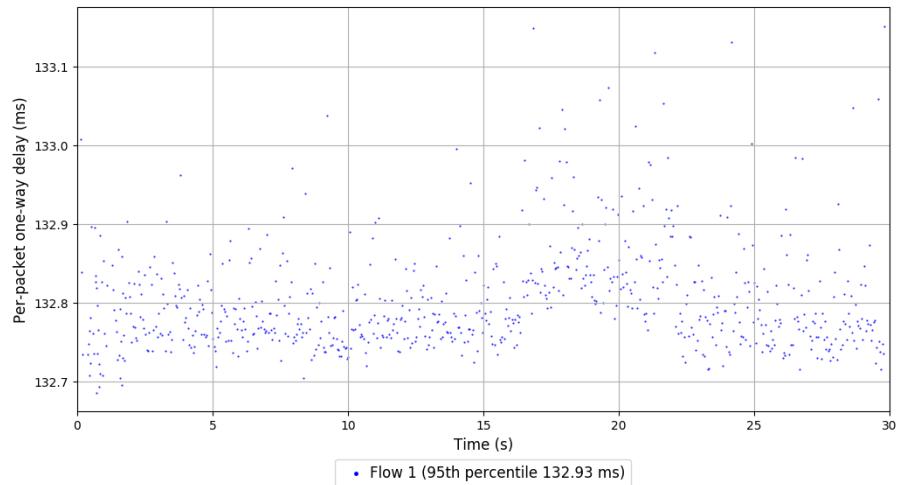
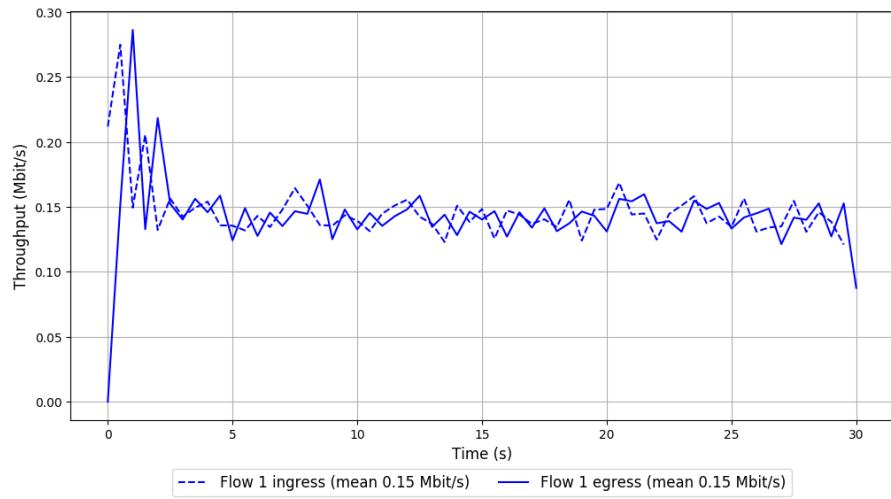


Run 5: Statistics of SCReAM

```
Start at: 2019-01-19 07:19:43
End at: 2019-01-19 07:20:13
Local clock offset: -0.217 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.931 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.931 ms
Loss rate: 0.75%
```

## Run 5: Report of SCReAM — Data Link

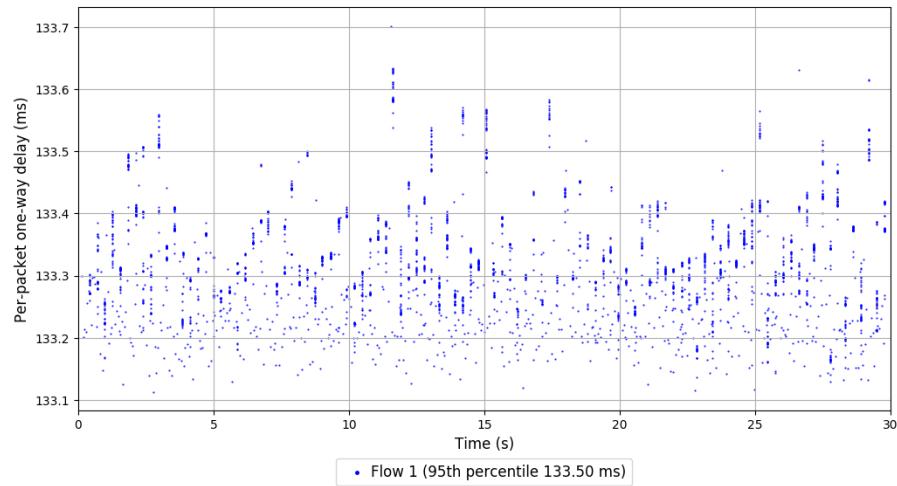
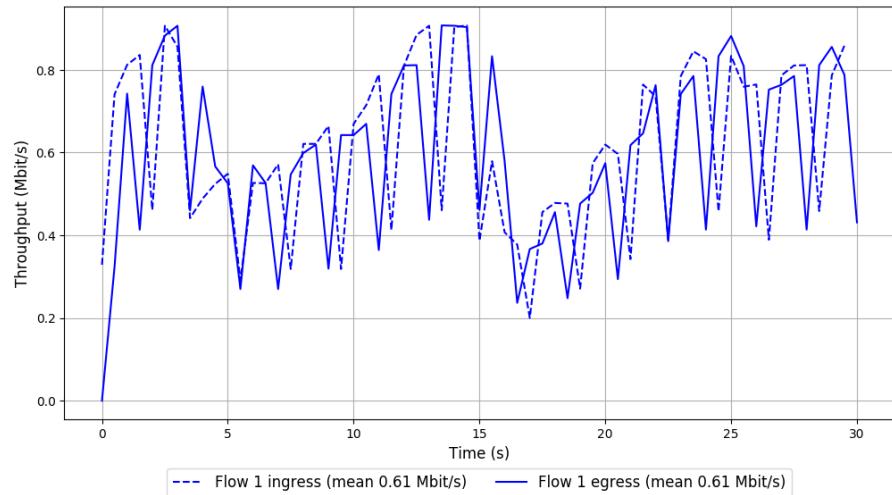


Run 1: Statistics of Sprout

```
Start at: 2019-01-19 05:26:24
End at: 2019-01-19 05:26:54
Local clock offset: -0.07 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 133.500 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 133.500 ms
Loss rate: 1.17%
```

Run 1: Report of Sprout — Data Link

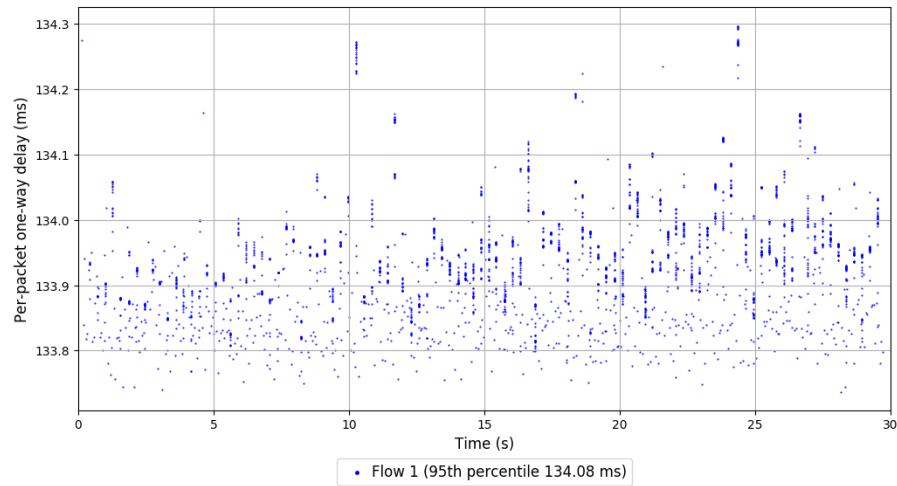
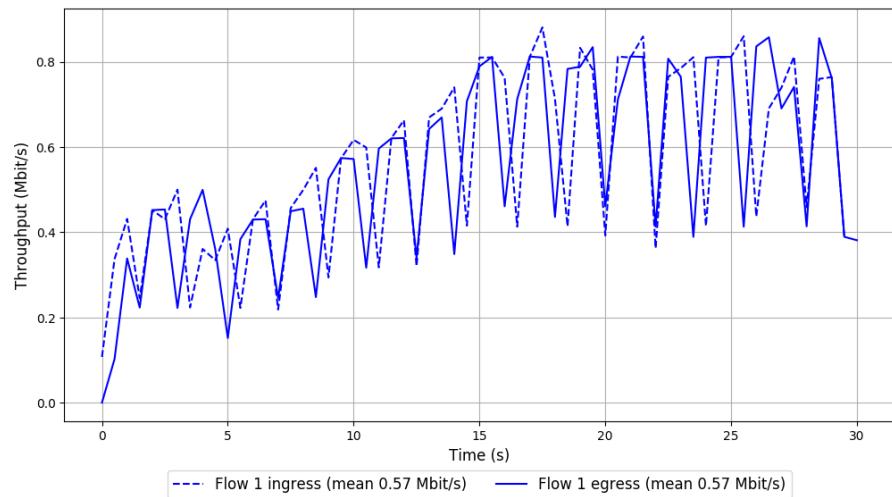


Run 2: Statistics of Sprout

```
Start at: 2019-01-19 06:00:16
End at: 2019-01-19 06:00:46
Local clock offset: 0.245 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 134.083 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 134.083 ms
Loss rate: 1.13%
```

## Run 2: Report of Sprout — Data Link

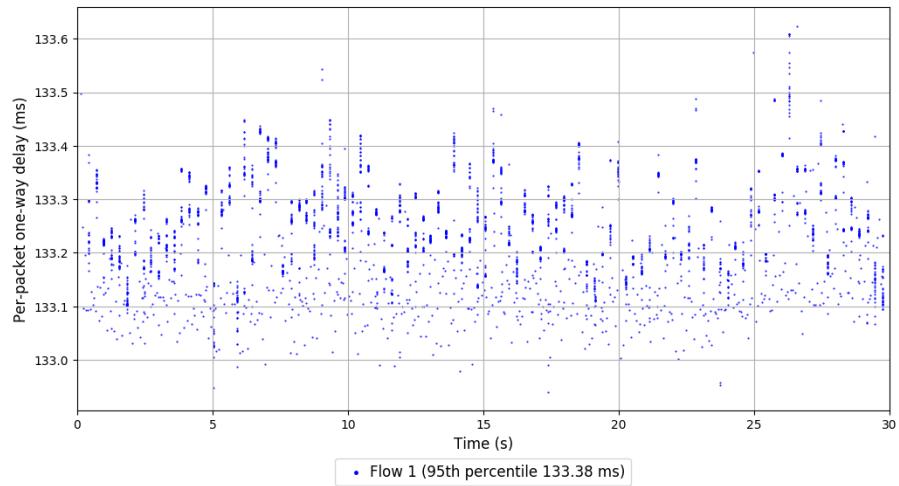
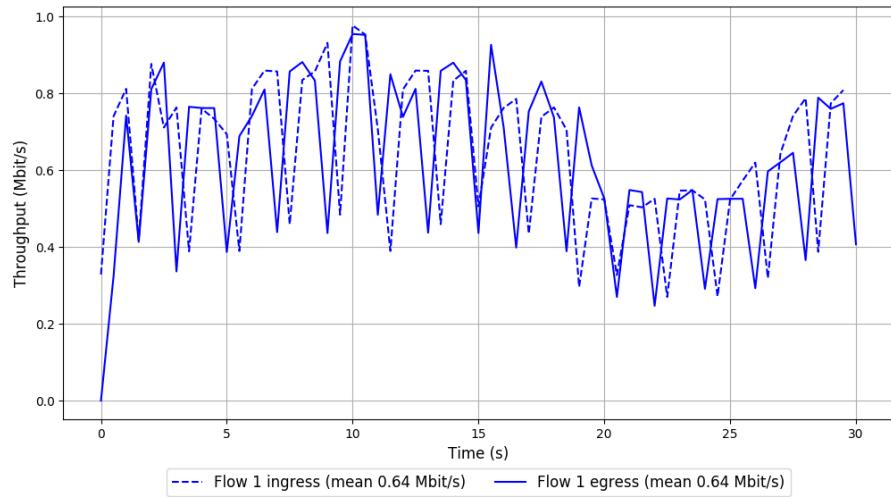


Run 3: Statistics of Sprout

```
Start at: 2019-01-19 06:34:19
End at: 2019-01-19 06:34:49
Local clock offset: -0.201 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 133.385 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 133.385 ms
Loss rate: 1.06%
```

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

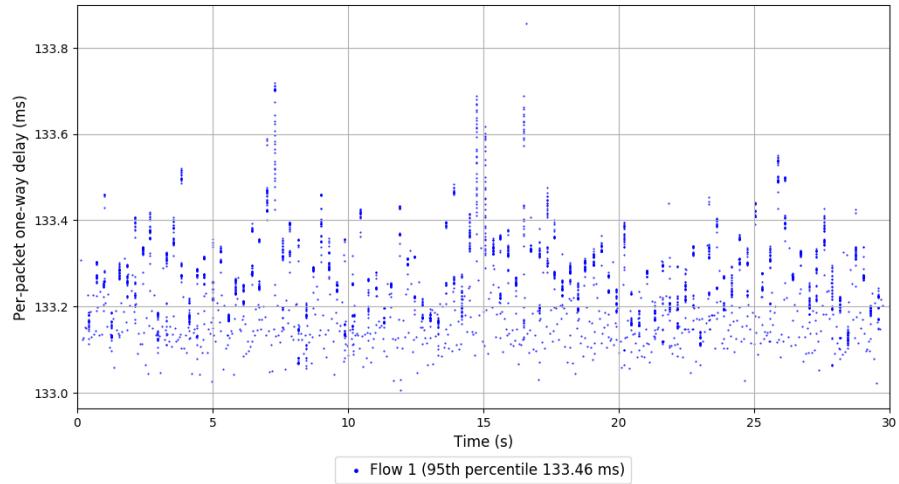
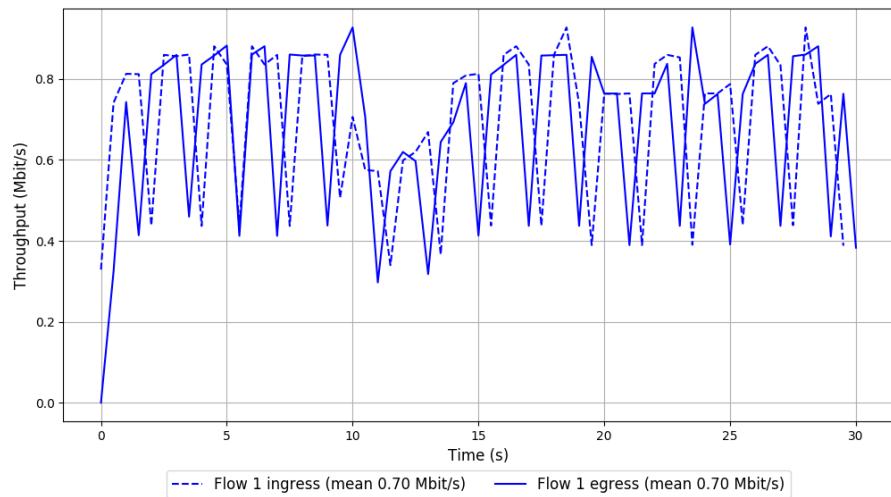


Run 4: Statistics of Sprout

```
Start at: 2019-01-19 07:09:15
End at: 2019-01-19 07:09:45
Local clock offset: 0.149 ms
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 133.455 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 133.455 ms
Loss rate: 0.92%
```

## Run 4: Report of Sprout — Data Link

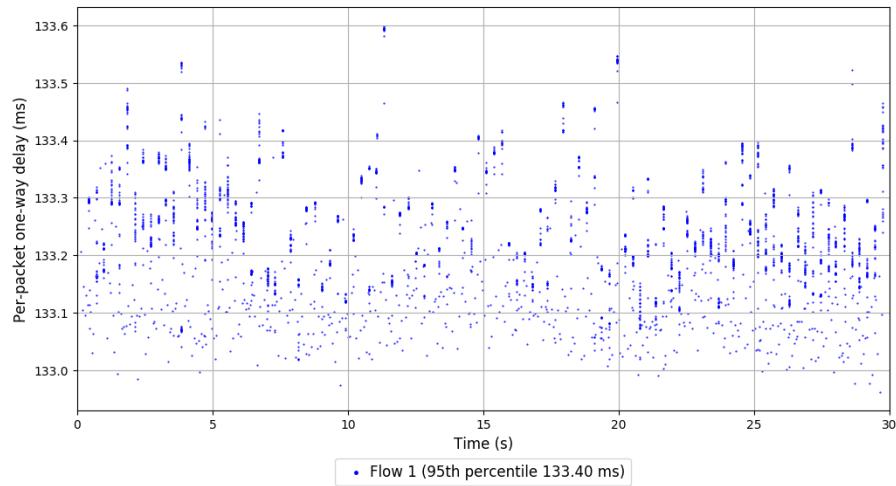
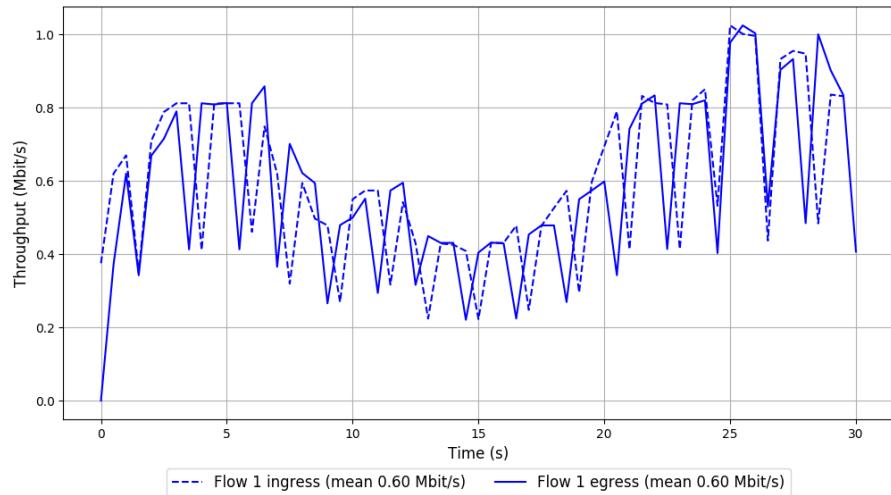


Run 5: Statistics of Sprout

```
Start at: 2019-01-19 07:43:22
End at: 2019-01-19 07:43:52
Local clock offset: -0.119 ms
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 133.400 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 133.400 ms
Loss rate: 1.19%
```

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

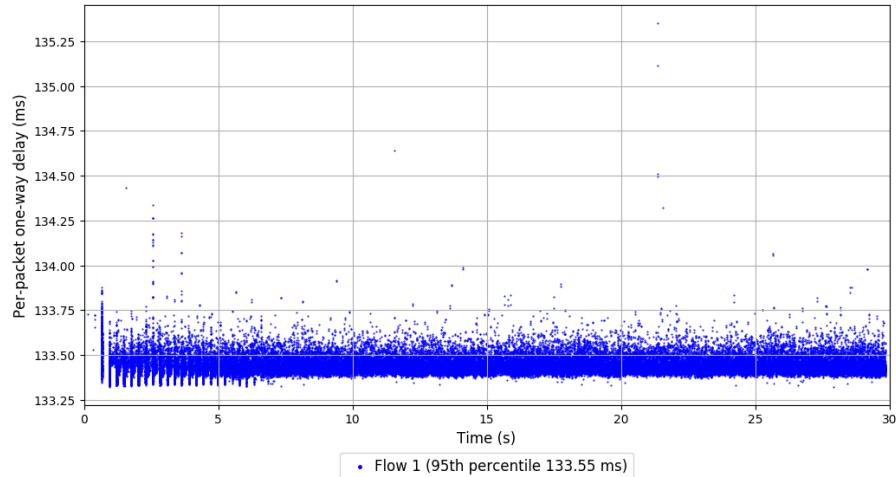
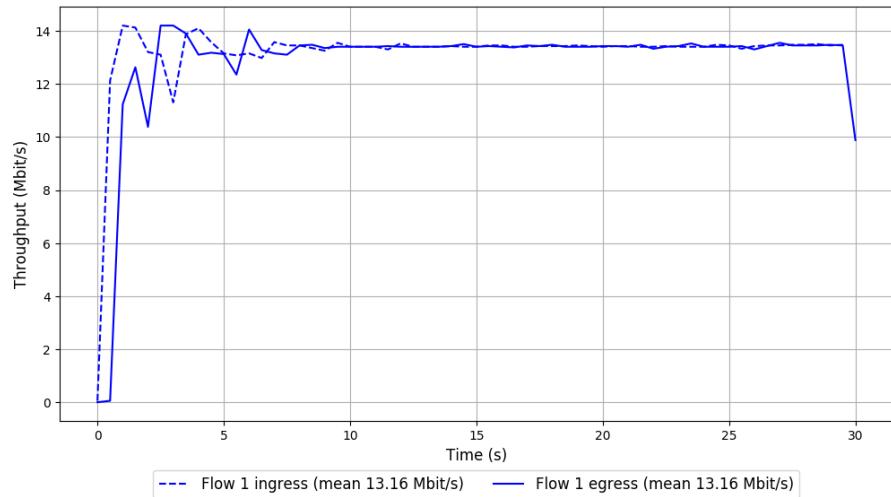


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-19 05:10:58
End at: 2019-01-19 05:11:28
Local clock offset: -0.043 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.16 Mbit/s
95th percentile per-packet one-way delay: 133.549 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 13.16 Mbit/s
95th percentile per-packet one-way delay: 133.549 ms
Loss rate: 0.91%
```

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

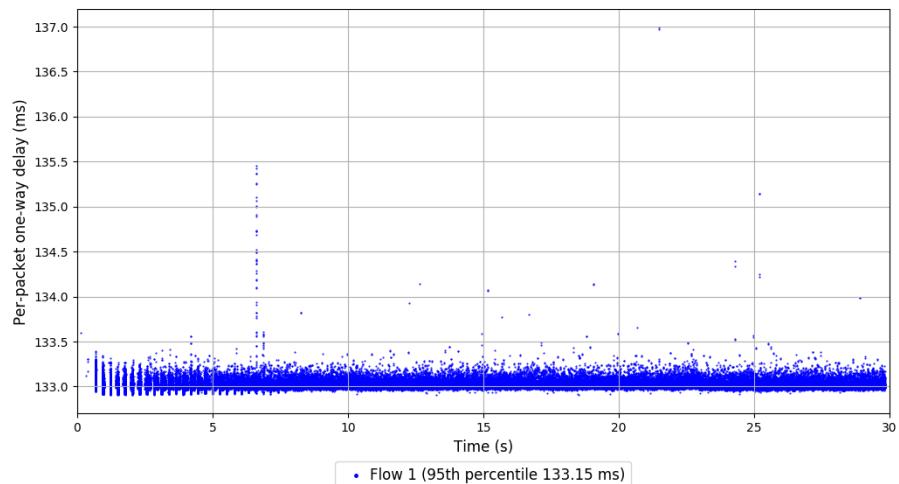
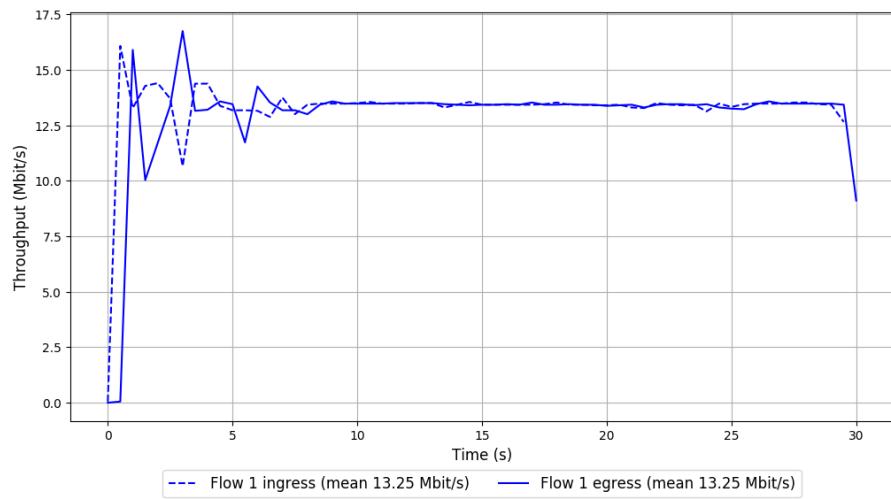


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-19 05:44:24
End at: 2019-01-19 05:44:54
Local clock offset: 0.015 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-01-19 09:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.25 Mbit/s
95th percentile per-packet one-way delay: 133.145 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 13.25 Mbit/s
95th percentile per-packet one-way delay: 133.145 ms
Loss rate: 0.90%
```

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

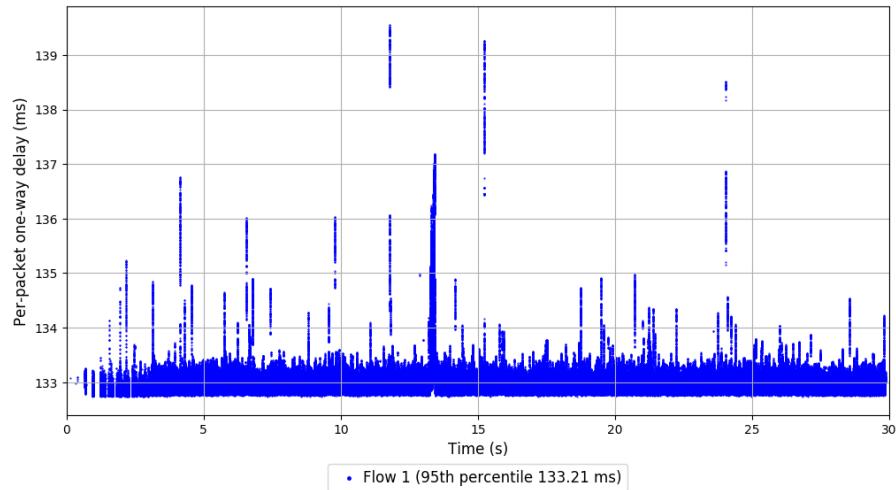
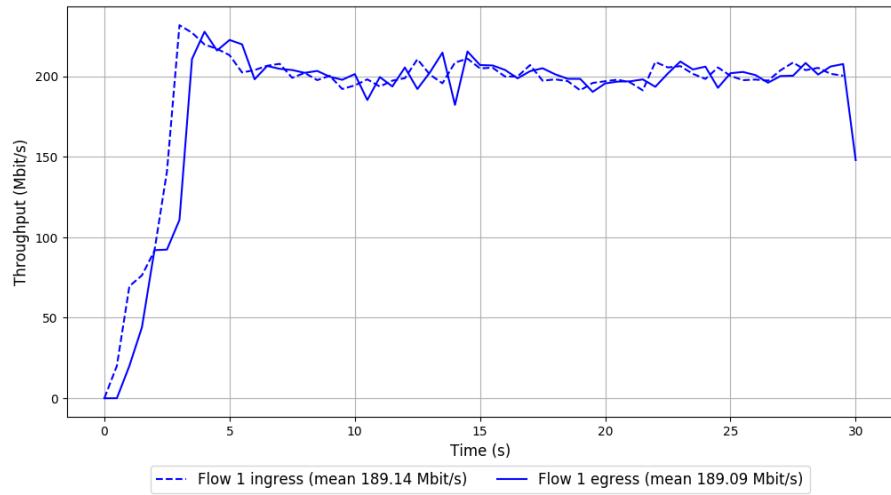


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-19 06:17:05
End at: 2019-01-19 06:17:35
Local clock offset: -0.16 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-01-19 09:32:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.09 Mbit/s
95th percentile per-packet one-way delay: 133.208 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 189.09 Mbit/s
95th percentile per-packet one-way delay: 133.208 ms
Loss rate: 0.92%
```

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

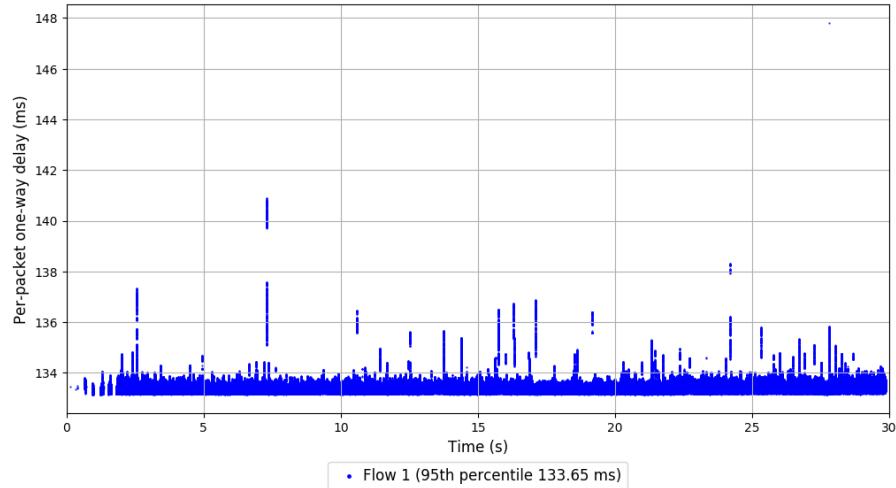
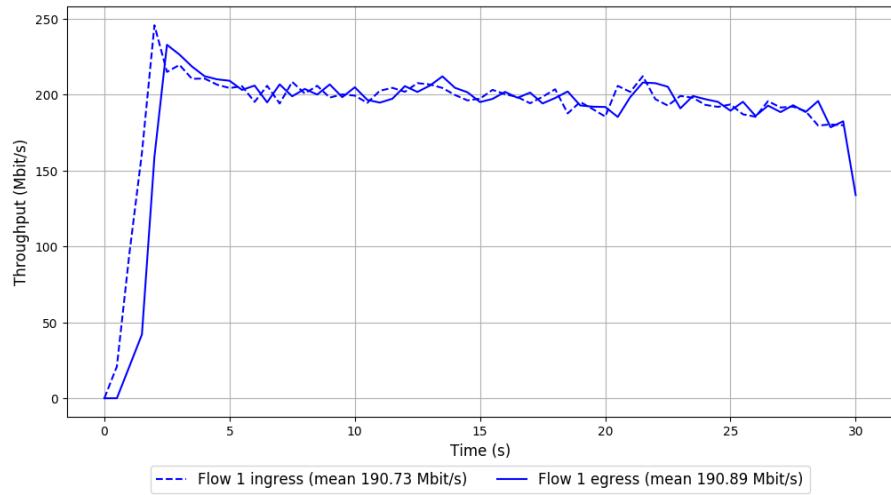


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-19 06:52:12
End at: 2019-01-19 06:52:42
Local clock offset: 0.205 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-01-19 09:32:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.89 Mbit/s
95th percentile per-packet one-way delay: 133.651 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 190.89 Mbit/s
95th percentile per-packet one-way delay: 133.651 ms
Loss rate: 0.81%
```

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

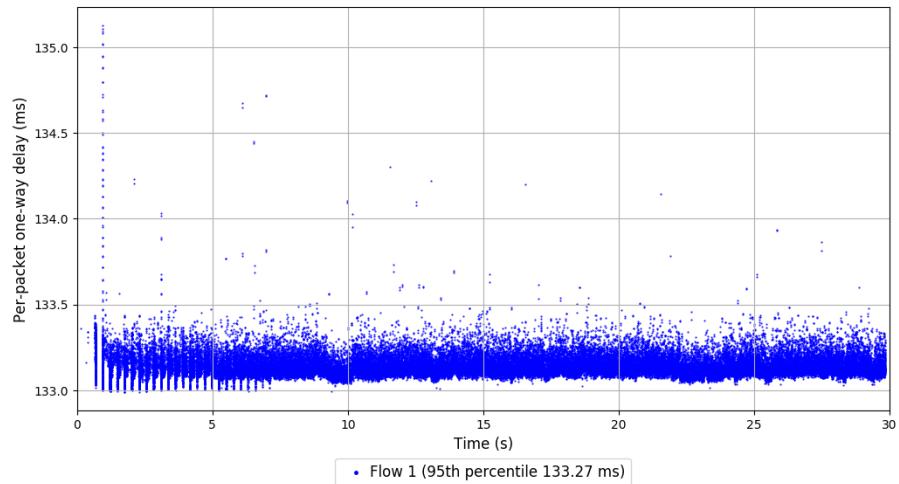
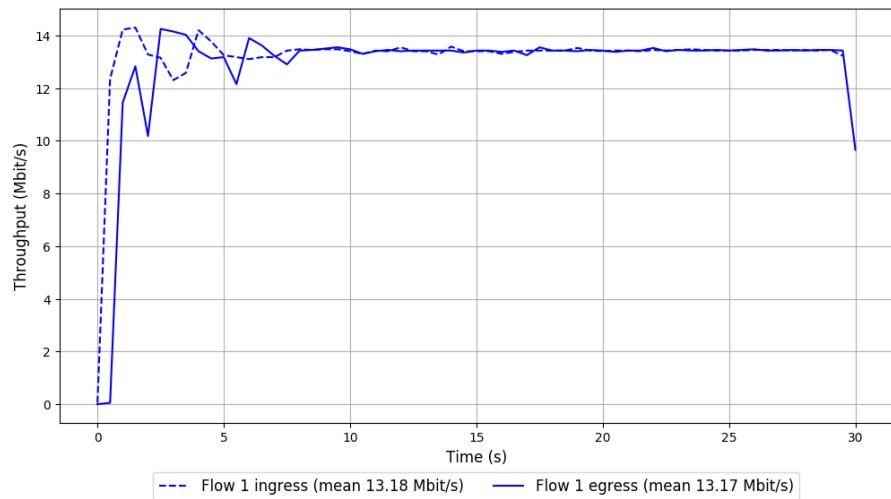


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-19 07:26:04
End at: 2019-01-19 07:26:34
Local clock offset: -0.084 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-01-19 09:32:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.17 Mbit/s
95th percentile per-packet one-way delay: 133.271 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 13.17 Mbit/s
95th percentile per-packet one-way delay: 133.271 ms
Loss rate: 0.91%
```

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

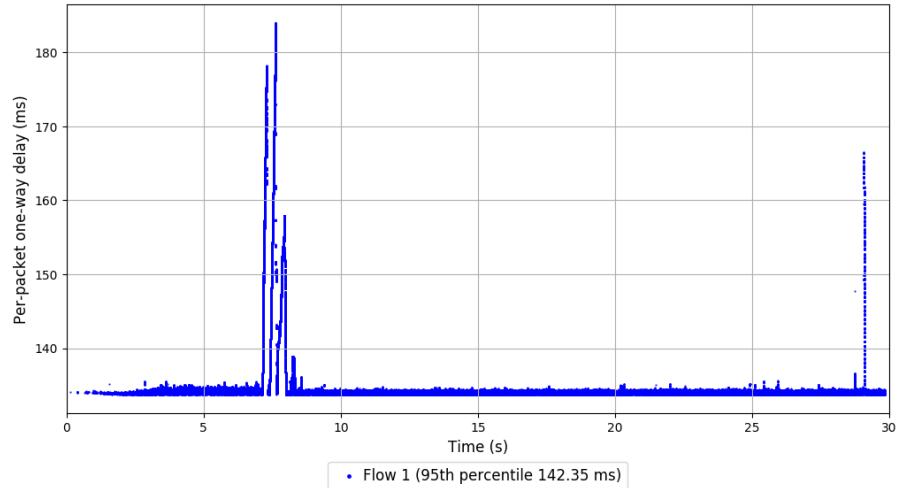
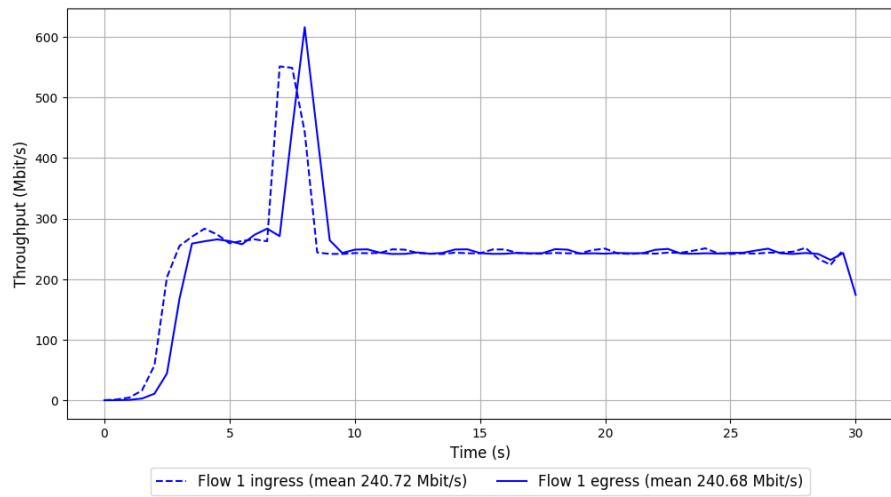


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-19 05:06:05
End at: 2019-01-19 05:06:35
Local clock offset: -0.049 ms
Remote clock offset: -0.407 ms

# Below is generated by plot.py at 2019-01-19 09:32:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 240.68 Mbit/s
95th percentile per-packet one-way delay: 142.350 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 240.68 Mbit/s
95th percentile per-packet one-way delay: 142.350 ms
Loss rate: 0.90%
```

Run 1: Report of TCP Vegas — Data Link

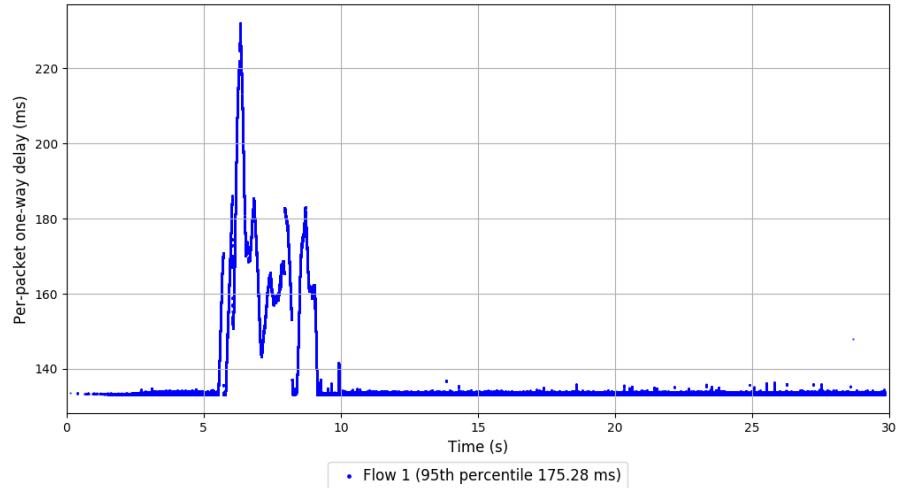
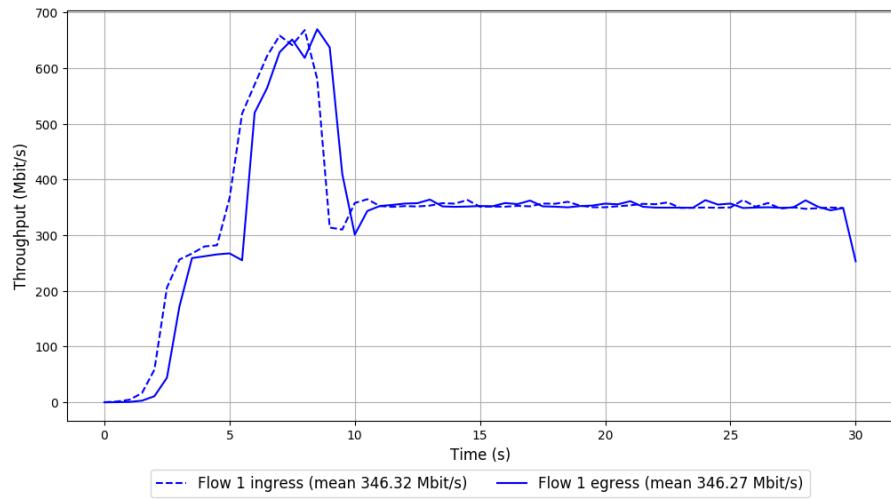


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-19 05:38:35
End at: 2019-01-19 05:39:05
Local clock offset: 0.149 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-01-19 09:32:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 346.27 Mbit/s
95th percentile per-packet one-way delay: 175.285 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 346.27 Mbit/s
95th percentile per-packet one-way delay: 175.285 ms
Loss rate: 0.91%
```

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

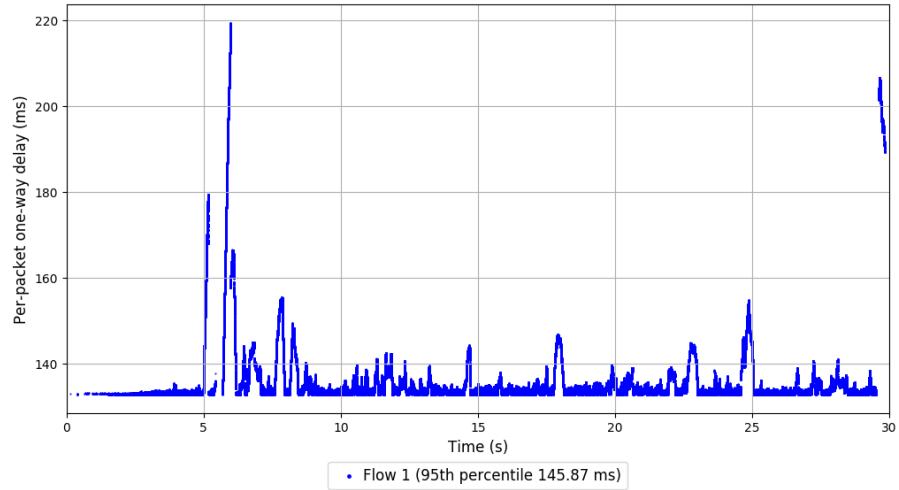
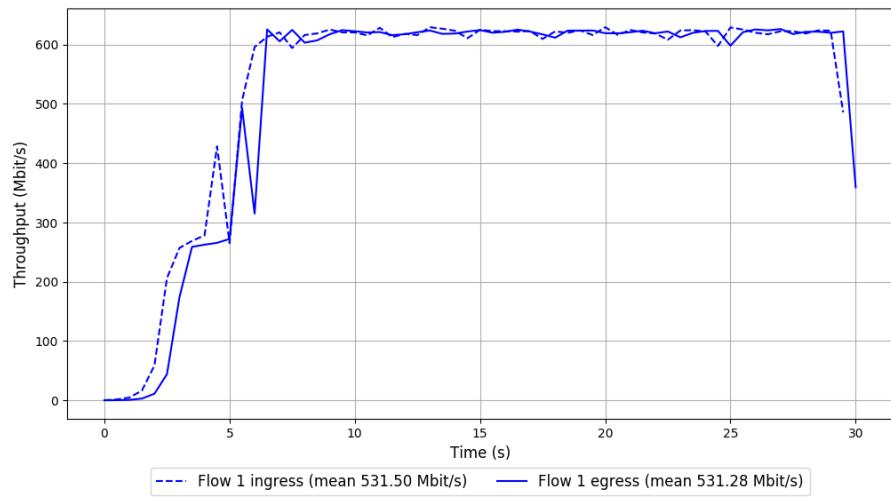


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-19 06:11:57
End at: 2019-01-19 06:12:27
Local clock offset: -0.025 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-01-19 09:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 531.28 Mbit/s
95th percentile per-packet one-way delay: 145.865 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 531.28 Mbit/s
95th percentile per-packet one-way delay: 145.865 ms
Loss rate: 0.93%
```

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

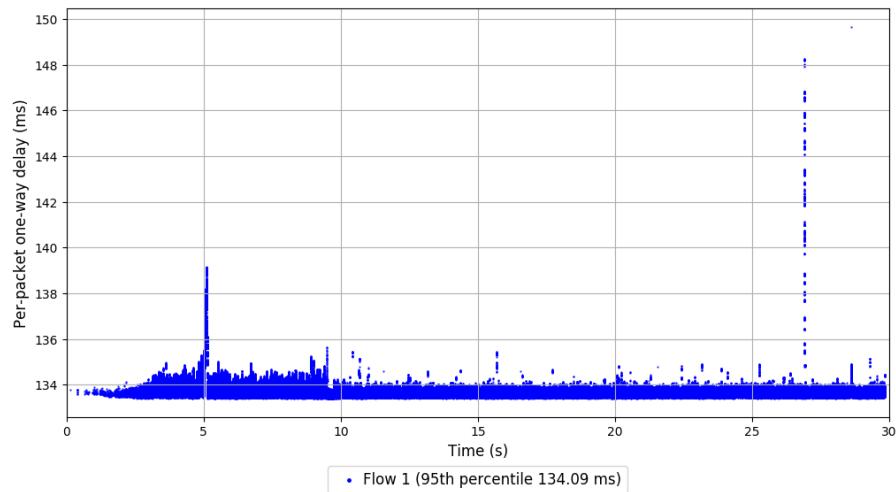
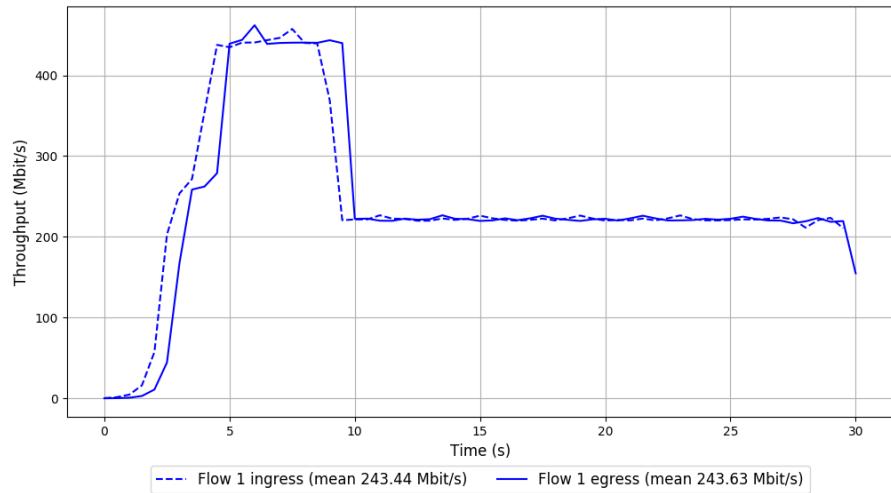


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-19 06:46:40
End at: 2019-01-19 06:47:10
Local clock offset: -0.021 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-01-19 09:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.63 Mbit/s
95th percentile per-packet one-way delay: 134.094 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 243.63 Mbit/s
95th percentile per-packet one-way delay: 134.094 ms
Loss rate: 0.81%
```

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

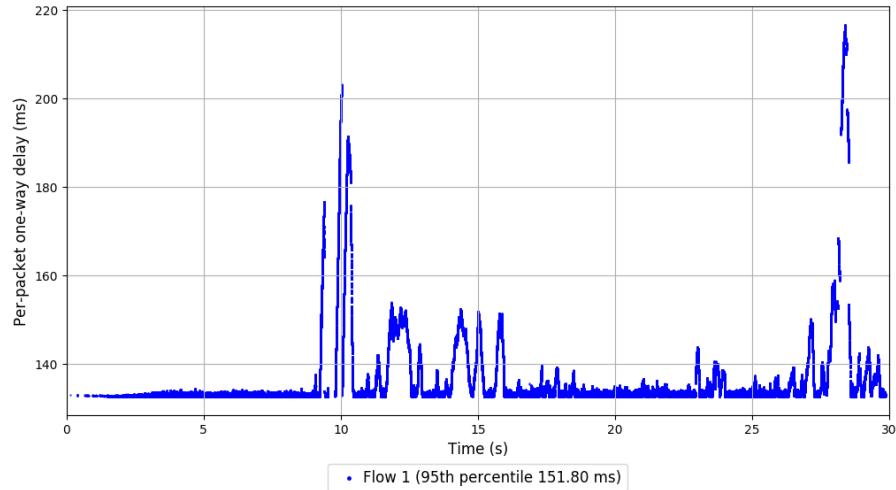
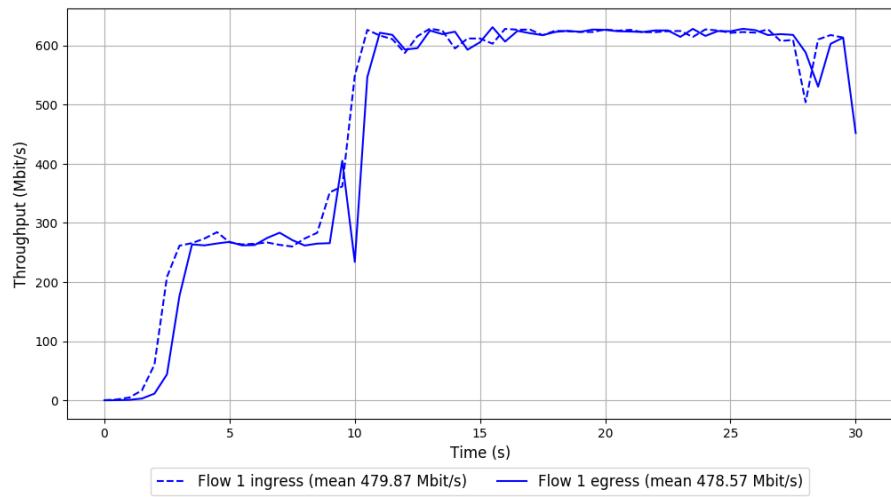


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-19 07:20:54
End at: 2019-01-19 07:21:24
Local clock offset: -0.282 ms
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2019-01-19 09:39:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 478.57 Mbit/s
95th percentile per-packet one-way delay: 151.802 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 478.57 Mbit/s
95th percentile per-packet one-way delay: 151.802 ms
Loss rate: 1.15%
```

Run 5: Report of TCP Vegas — Data Link

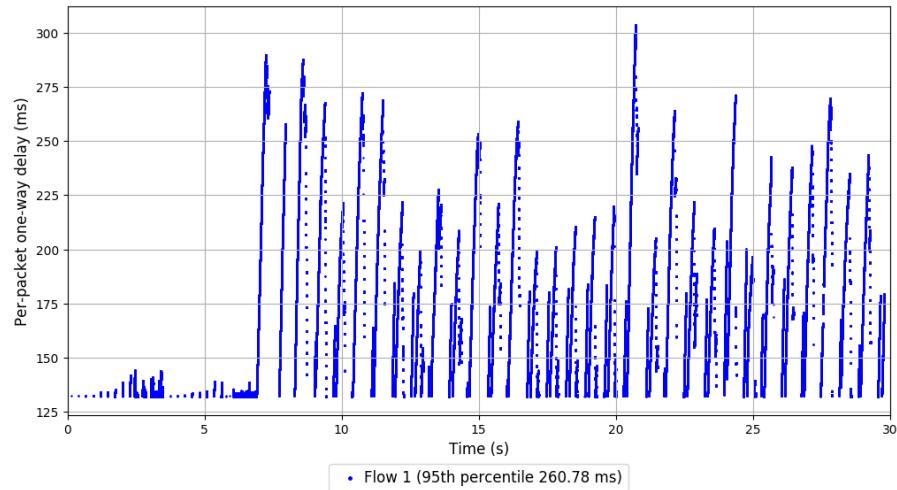
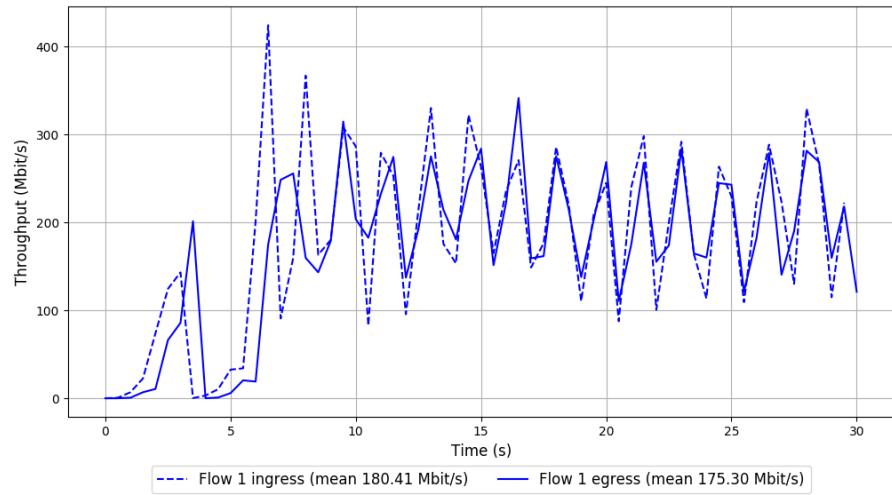


Run 1: Statistics of Verus

```
Start at: 2019-01-19 05:13:53
End at: 2019-01-19 05:14:23
Local clock offset: -0.061 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-01-19 09:39:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.30 Mbit/s
95th percentile per-packet one-way delay: 260.781 ms
Loss rate: 3.46%
-- Flow 1:
Average throughput: 175.30 Mbit/s
95th percentile per-packet one-way delay: 260.781 ms
Loss rate: 3.46%
```

Run 1: Report of Verus — Data Link

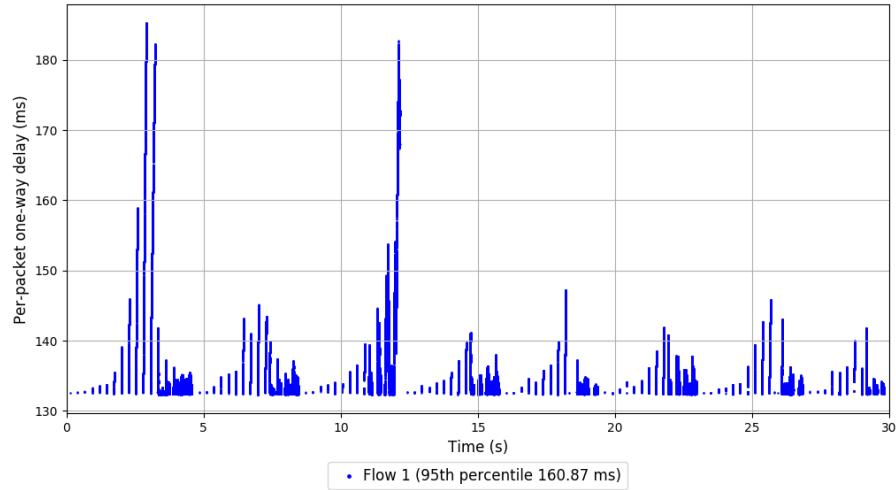
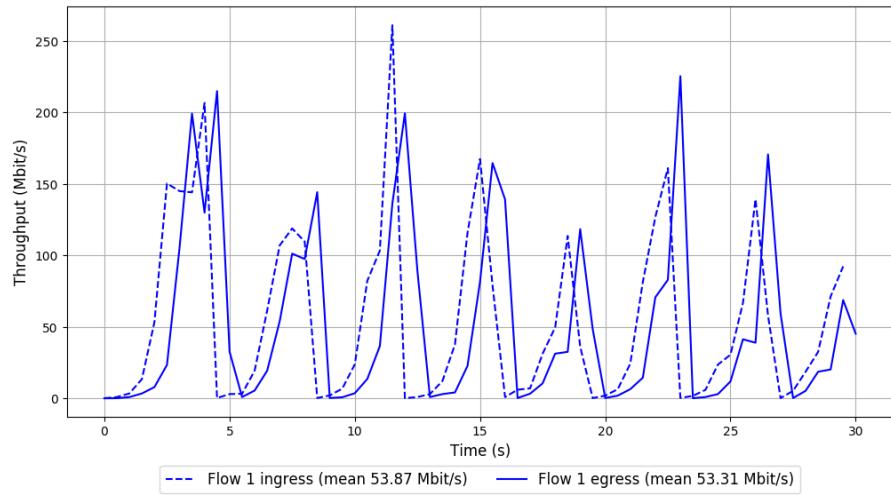


Run 2: Statistics of Verus

```
Start at: 2019-01-19 05:47:36
End at: 2019-01-19 05:48:06
Local clock offset: 0.015 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-01-19 09:39:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.31 Mbit/s
95th percentile per-packet one-way delay: 160.869 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 53.31 Mbit/s
95th percentile per-packet one-way delay: 160.869 ms
Loss rate: 1.92%
```

## Run 2: Report of Verus — Data Link

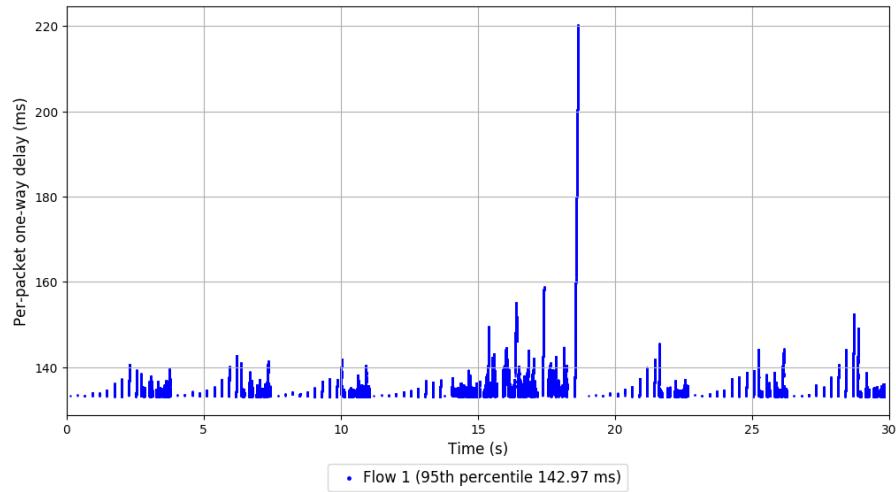
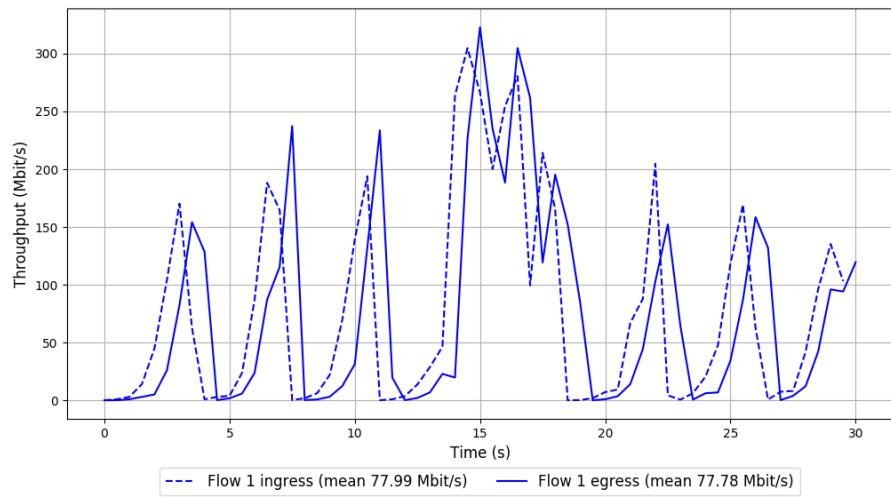


Run 3: Statistics of Verus

```
Start at: 2019-01-19 06:20:48
End at: 2019-01-19 06:21:18
Local clock offset: 0.378 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-01-19 09:39:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 142.969 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 142.969 ms
Loss rate: 0.53%
```

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

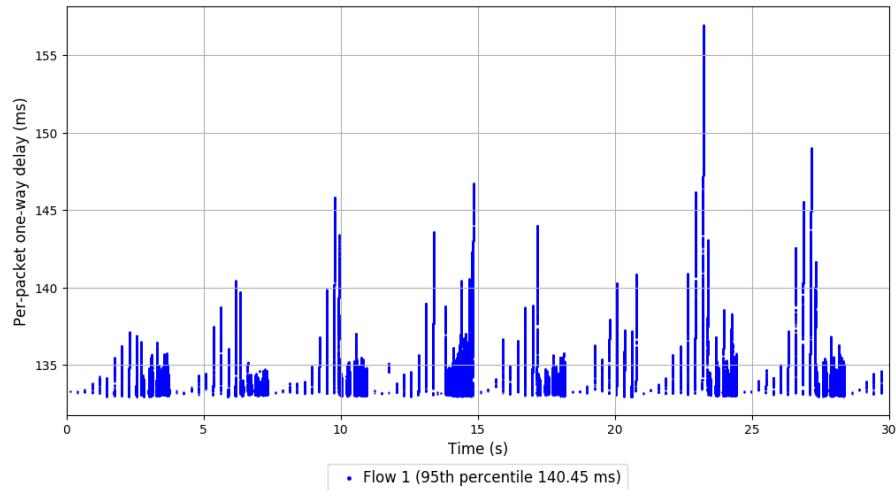
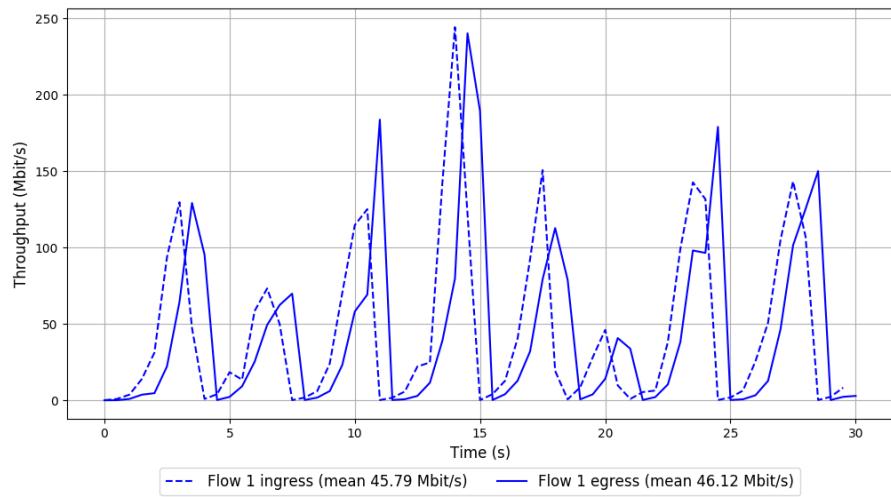


Run 4: Statistics of Verus

```
Start at: 2019-01-19 06:55:45
End at: 2019-01-19 06:56:15
Local clock offset: -0.123 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-01-19 09:39:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 140.452 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 140.452 ms
Loss rate: 0.20%
```

## Run 4: Report of Verus — Data Link

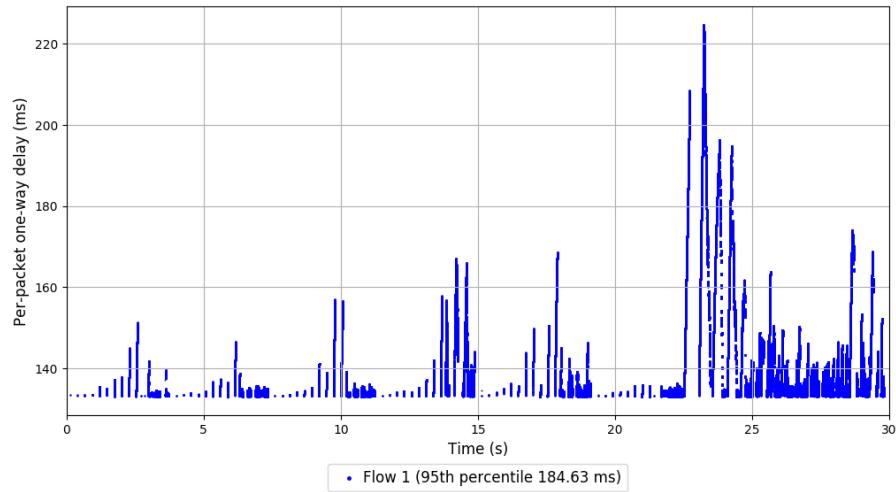
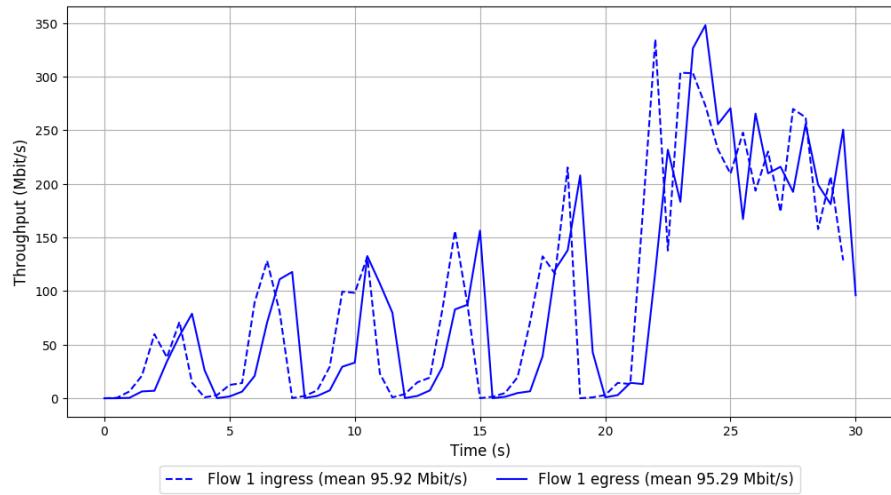


Run 5: Statistics of Verus

```
Start at: 2019-01-19 07:29:24
End at: 2019-01-19 07:29:54
Local clock offset: 0.113 ms
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2019-01-19 09:39:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 184.626 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 184.626 ms
Loss rate: 1.23%
```

## Run 5: Report of Verus — Data Link

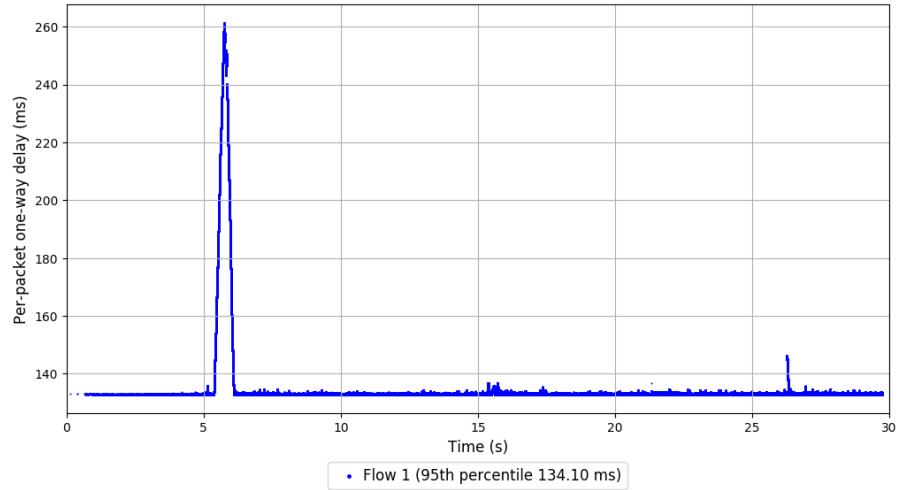
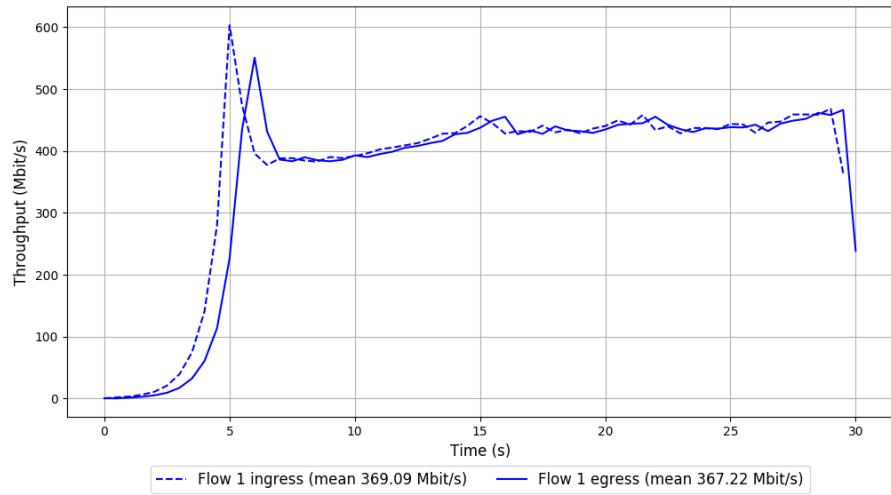


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-19 05:17:45
End at: 2019-01-19 05:18:15
Local clock offset: -0.031 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2019-01-19 09:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 367.22 Mbit/s
95th percentile per-packet one-way delay: 134.103 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 367.22 Mbit/s
95th percentile per-packet one-way delay: 134.103 ms
Loss rate: 1.39%
```

Run 1: Report of PCC-Vivace — Data Link

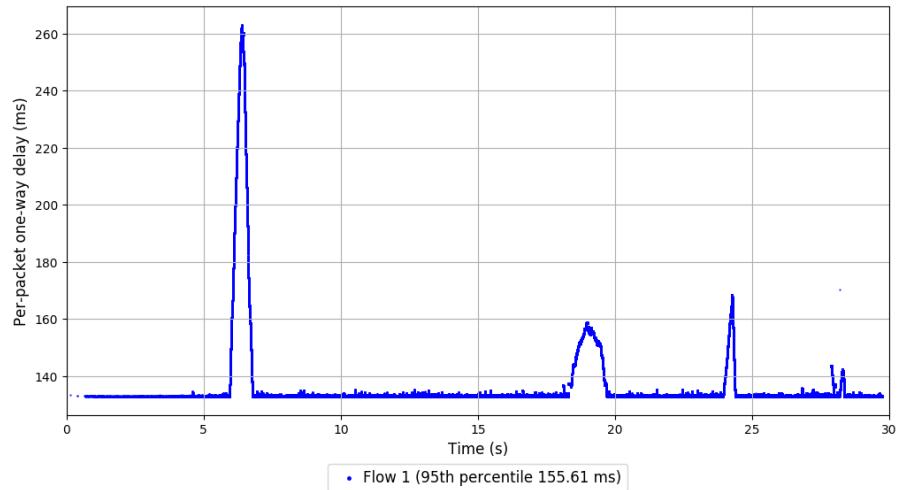
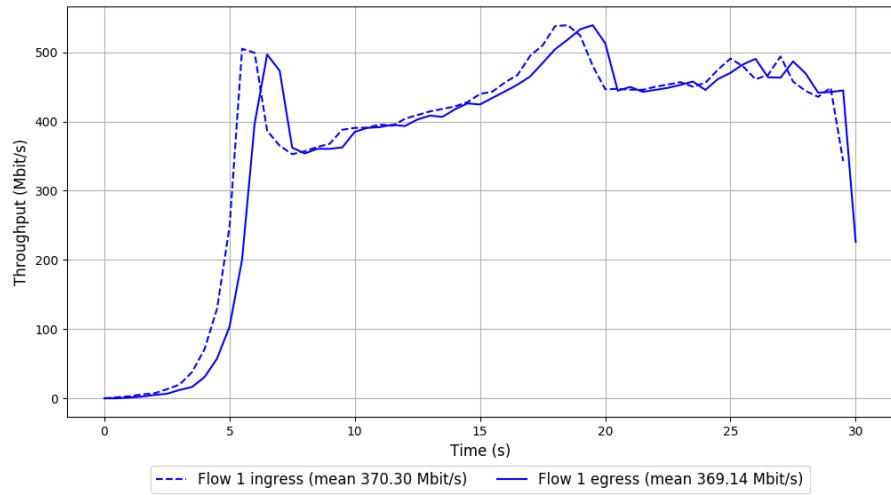


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-19 05:51:16
End at: 2019-01-19 05:51:46
Local clock offset: 0.028 ms
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-01-19 09:40:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.14 Mbit/s
95th percentile per-packet one-way delay: 155.609 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 369.14 Mbit/s
95th percentile per-packet one-way delay: 155.609 ms
Loss rate: 1.20%
```

Run 2: Report of PCC-Vivace — Data Link

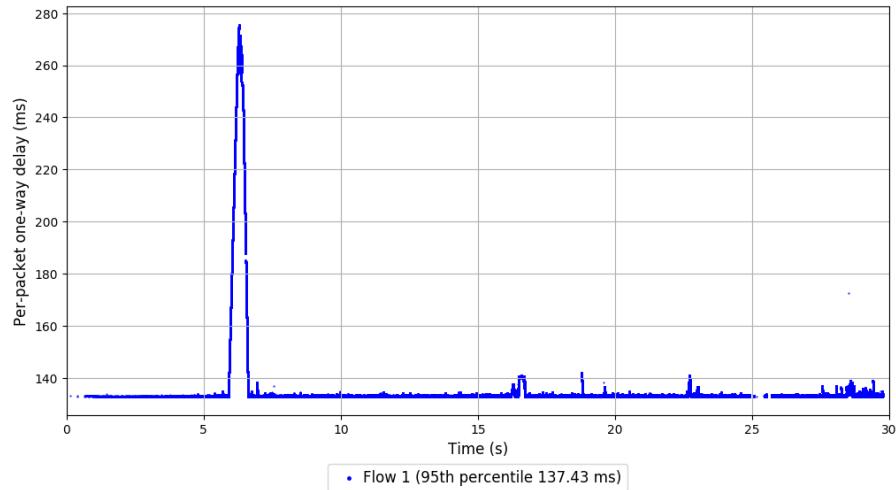
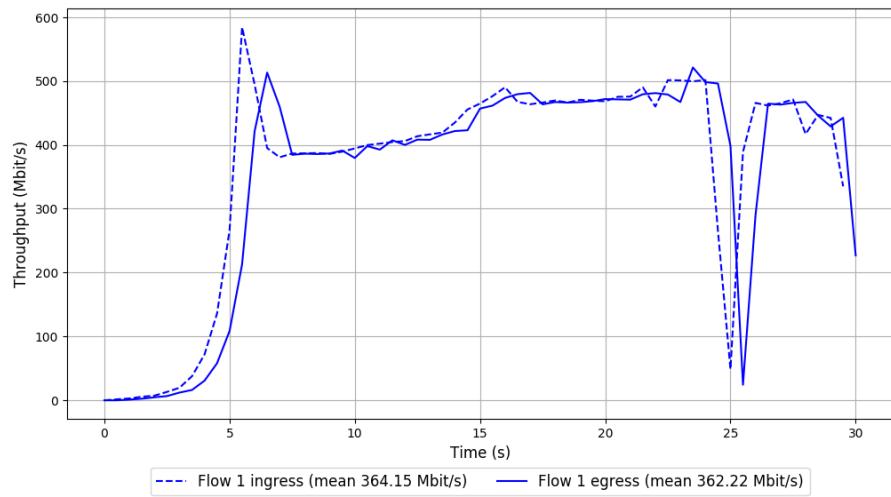


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-19 06:24:32
End at: 2019-01-19 06:25:02
Local clock offset: -0.26 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-01-19 09:40:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 362.22 Mbit/s
95th percentile per-packet one-way delay: 137.429 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 362.22 Mbit/s
95th percentile per-packet one-way delay: 137.429 ms
Loss rate: 1.42%
```

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

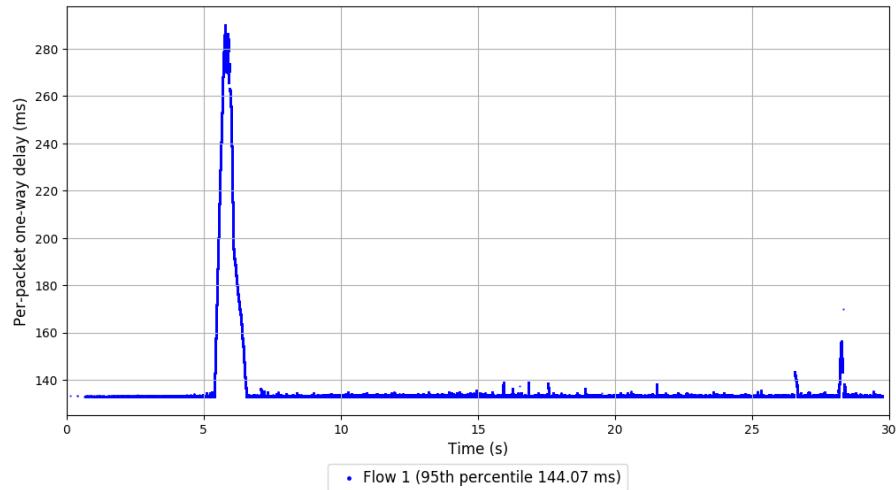
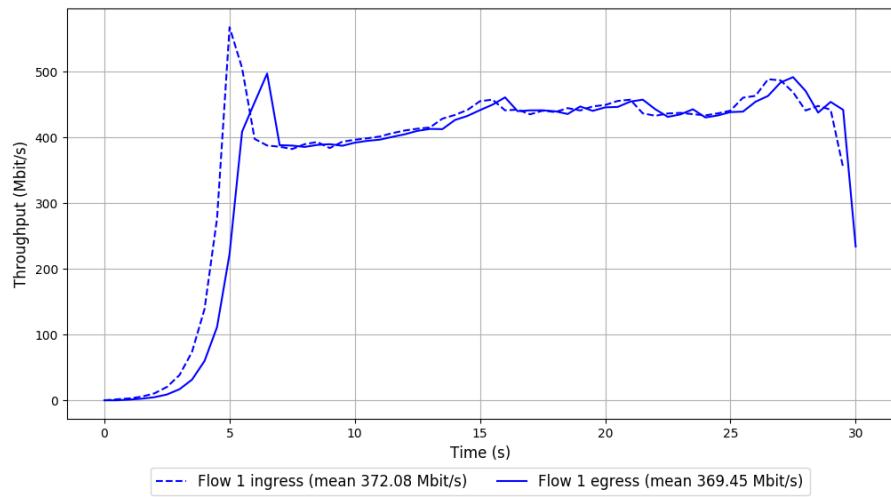


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-19 06:59:26
End at: 2019-01-19 06:59:56
Local clock offset: 0.139 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-01-19 09:40:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.45 Mbit/s
95th percentile per-packet one-way delay: 144.070 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 369.45 Mbit/s
95th percentile per-packet one-way delay: 144.070 ms
Loss rate: 1.59%
```

Run 4: Report of PCC-Vivace — Data Link

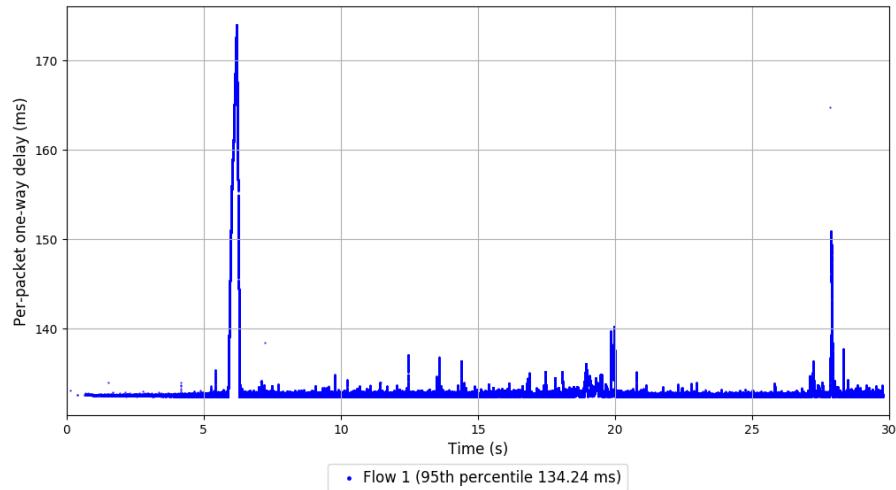
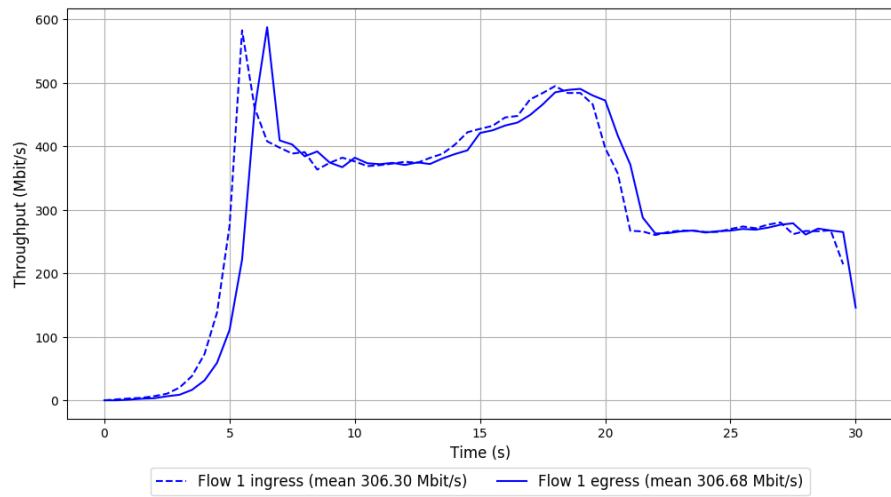


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-19 07:33:14
End at: 2019-01-19 07:38:44
Local clock offset: -0.038 ms
Remote clock offset: 0.212 ms

# Below is generated by plot.py at 2019-01-19 09:40:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.68 Mbit/s
95th percentile per-packet one-way delay: 134.237 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 306.68 Mbit/s
95th percentile per-packet one-way delay: 134.237 ms
Loss rate: 0.77%
```

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

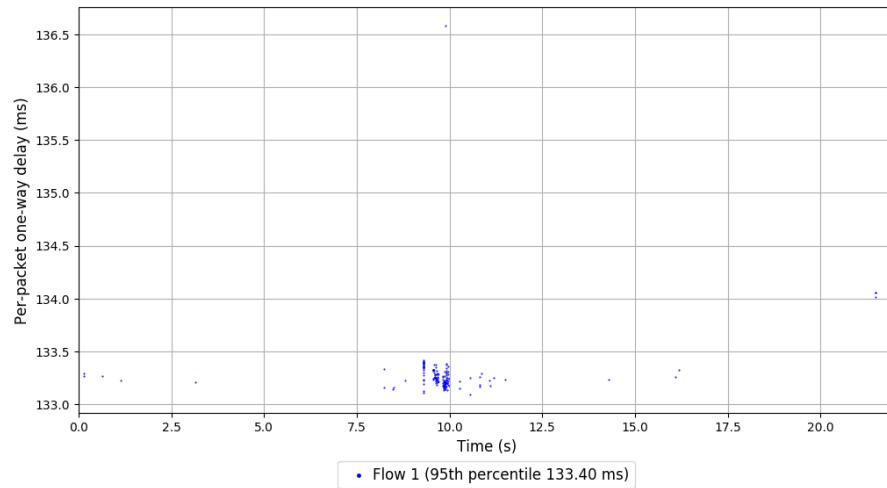
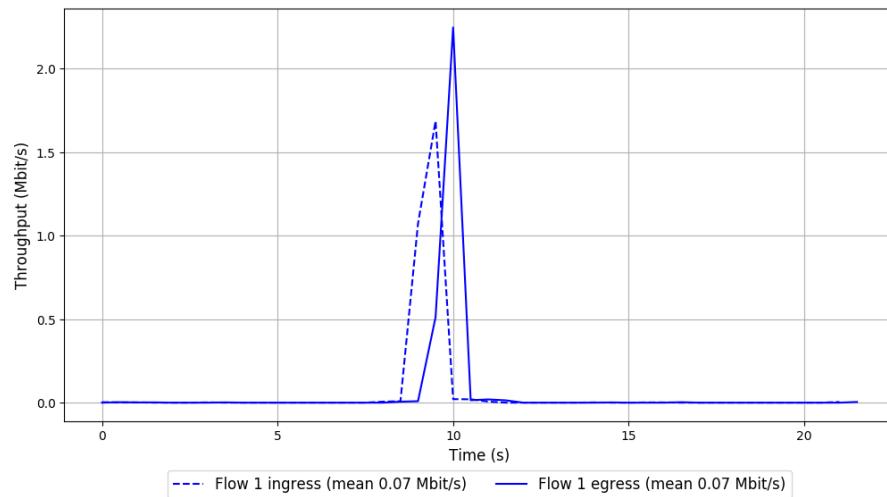
Start at: 2019-01-19 05:16:35

End at: 2019-01-19 05:17:05

Local clock offset: 0.104 ms

Remote clock offset: -0.031 ms

Run 1: Report of WebRTC media — Data Link

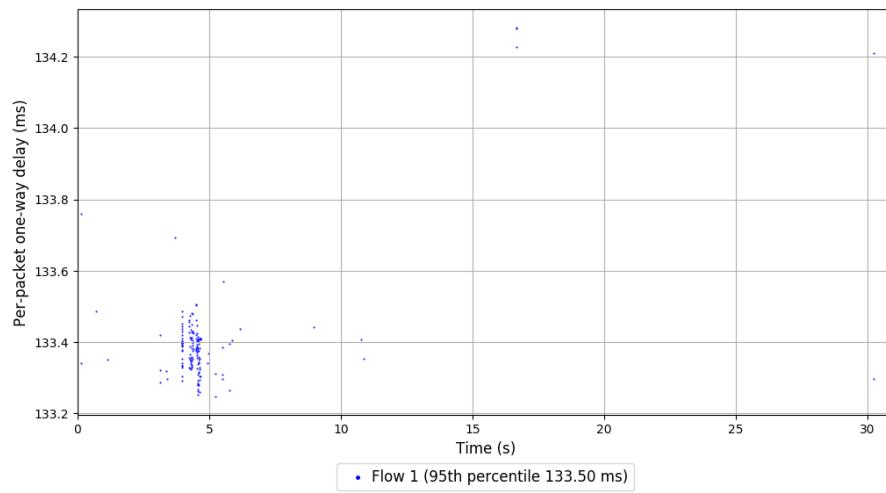
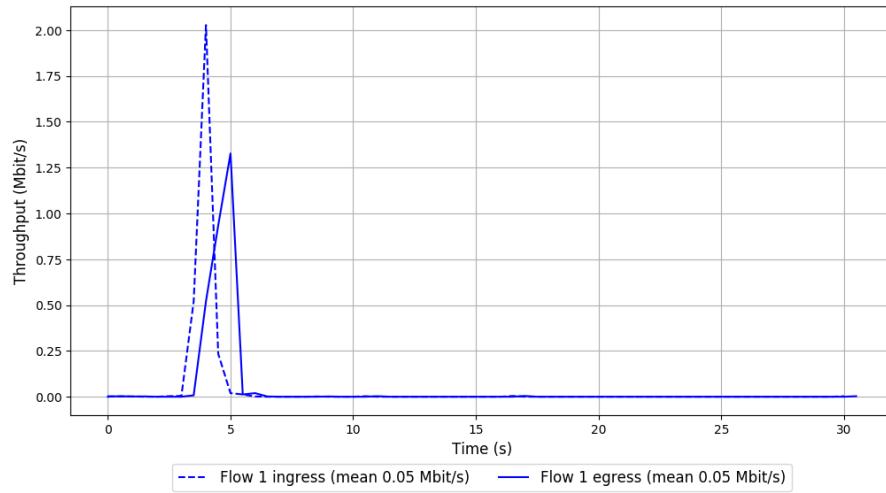


```
Run 2: Statistics of WebRTC media

Start at: 2019-01-19 05:50:05
End at: 2019-01-19 05:50:35
Local clock offset: -0.25 ms
Remote clock offset: -0.455 ms

# Below is generated by plot.py at 2019-01-19 09:40:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.503 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

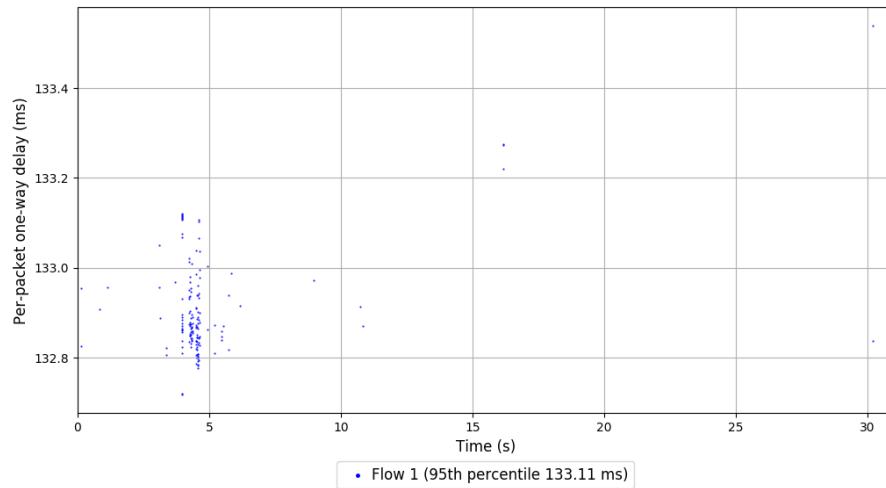
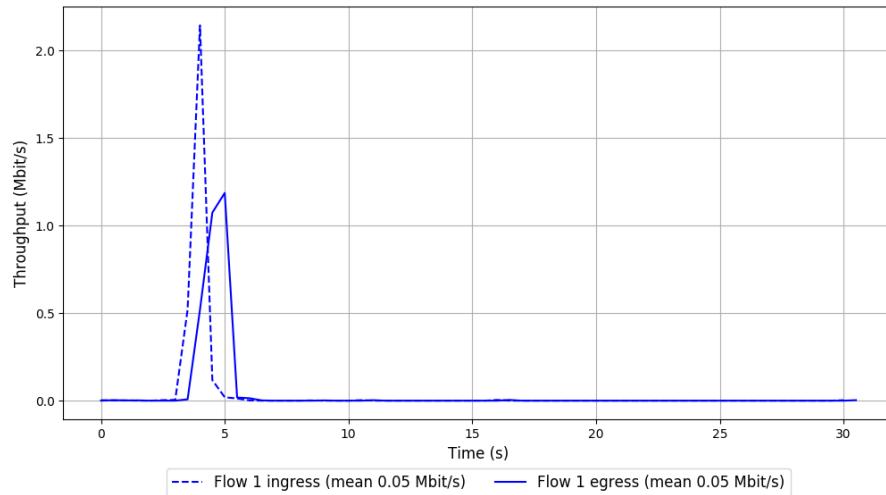


```
Run 3: Statistics of WebRTC media

Start at: 2019-01-19 06:23:22
End at: 2019-01-19 06:23:52
Local clock offset: -0.05 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-01-19 09:40:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.113 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.113 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

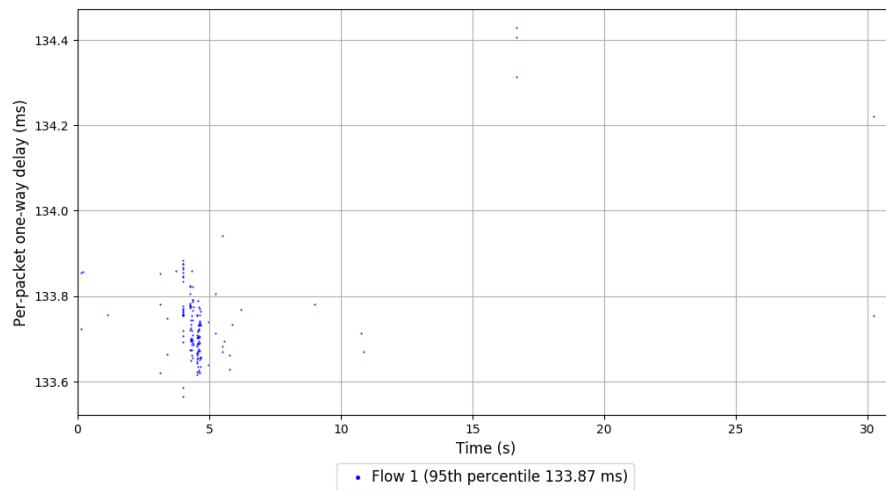
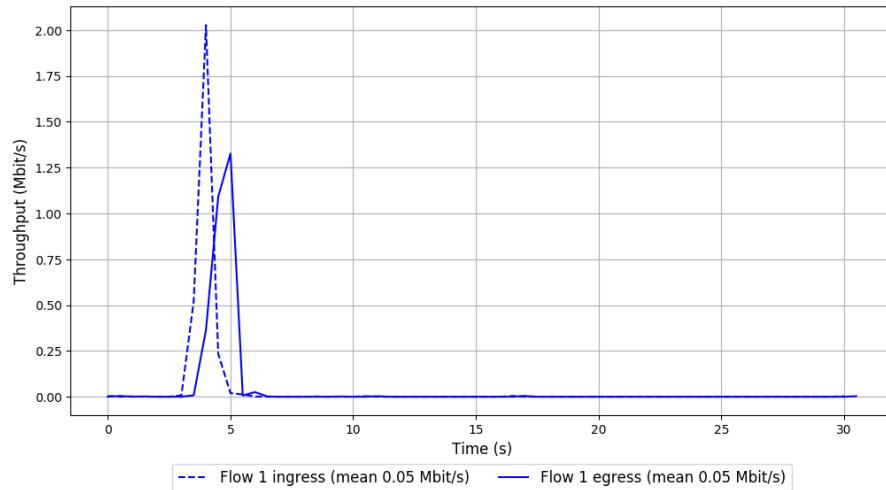


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-19 06:58:16
End at: 2019-01-19 06:58:46
Local clock offset: 0.395 ms
Remote clock offset: -0.52 ms

# Below is generated by plot.py at 2019-01-19 09:40:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.868 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.868 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-19 07:32:03
End at: 2019-01-19 07:32:33
Local clock offset: -0.084 ms
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2019-01-19 09:40:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.219 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

