

## Pantheon Report

Generated at 2019-01-21 20:36:11 (UTC).  
Data path: GCE Sydney on `ens4 (local)` → GCE London on `ens4 (remote)`.  
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:

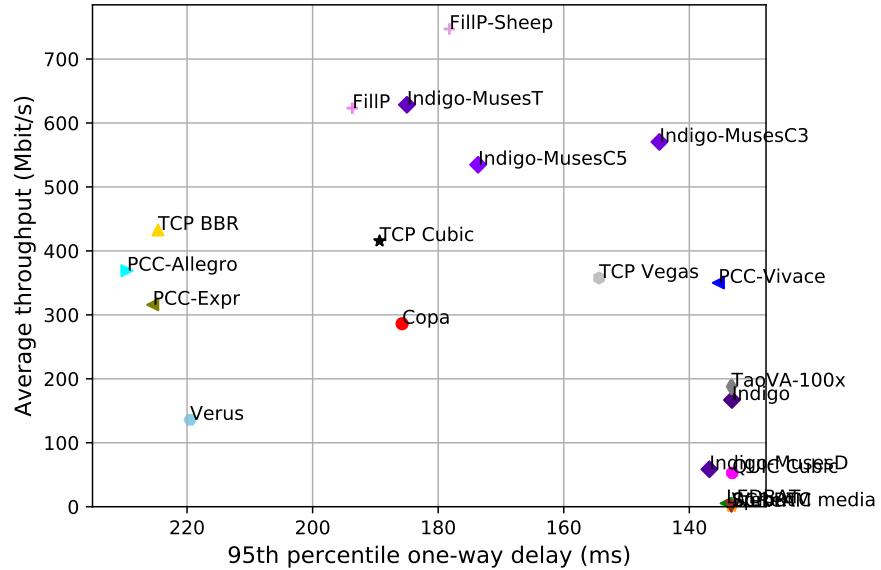
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

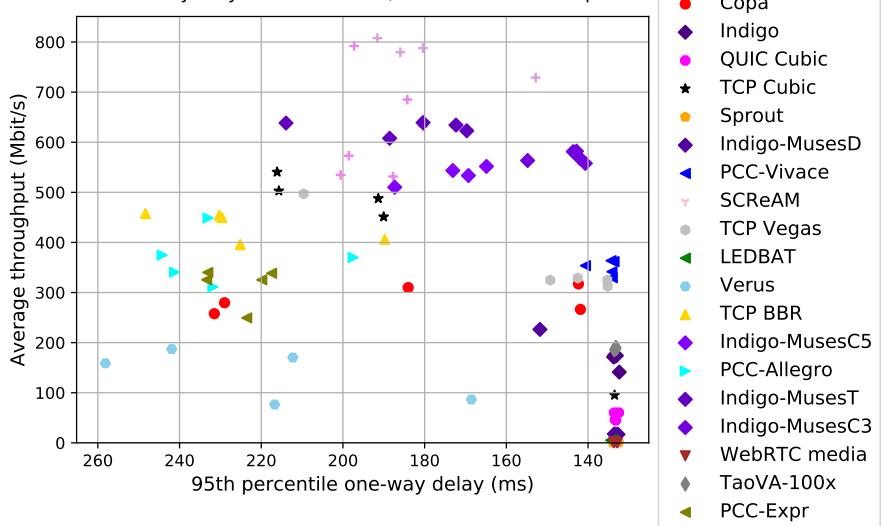
```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde
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 Sydney to GCE London, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



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



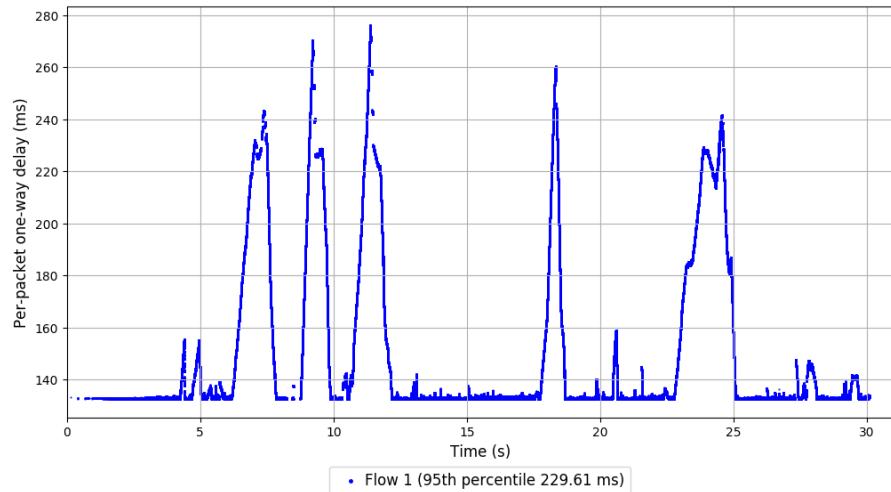
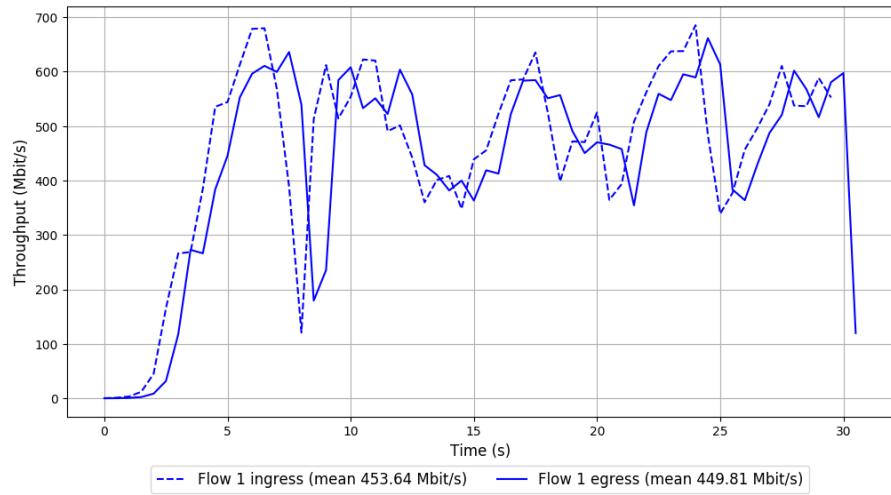
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	432.84	224.63	1.00
Copa	5	286.15	185.74	0.00
TCP Cubic	5	415.52	189.34	0.10
FillP	5	623.30	193.68	2.14
FillP-Sheep	5	747.06	178.22	0.79
Indigo	5	166.86	133.22	0.00
Indigo-MusesC3	5	570.39	144.76	0.01
Indigo-MusesC5	4	534.74	173.64	0.18
Indigo-MusesD	5	58.55	136.81	0.00
Indigo-MusesT	5	628.49	184.98	0.09
LEDBAT	5	5.28	134.14	0.00
PCC-Allegro	5	369.05	229.56	2.11
PCC-Expr	5	315.76	225.47	3.01
QUIC Cubic	4	52.91	133.16	0.00
SCReAM	5	0.15	133.14	0.00
Sprout	5	0.66	133.25	0.00
TaoVA-100x	5	187.88	133.29	0.00
TCP Vegas	5	357.60	154.37	0.01
Verus	5	135.88	219.52	0.98
PCC-Vivace	5	350.07	135.38	0.07
WebRTC media	5	0.84	133.31	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-21 15:39:05
End at: 2019-01-21 15:39:35
Local clock offset: -0.095 ms
Remote clock offset: 0.271 ms

# Below is generated by plot.py at 2019-01-21 18:44:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 449.81 Mbit/s
95th percentile per-packet one-way delay: 229.612 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 449.81 Mbit/s
95th percentile per-packet one-way delay: 229.612 ms
Loss rate: 0.84%
```

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

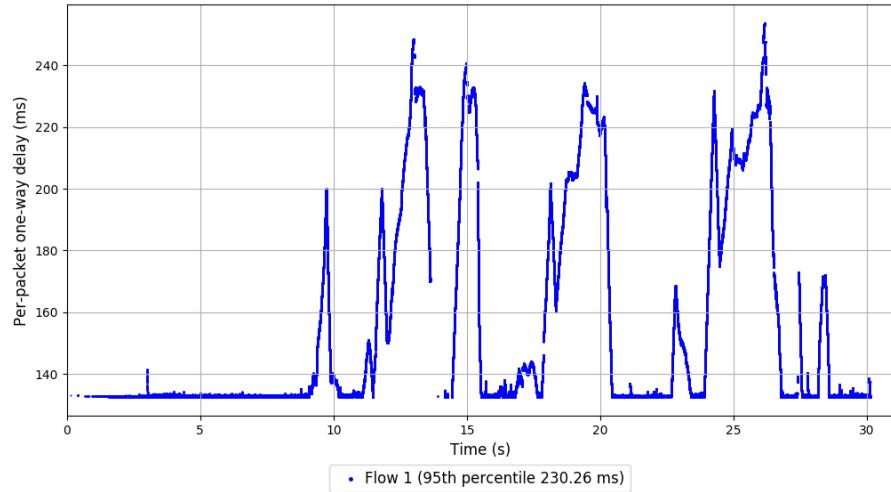
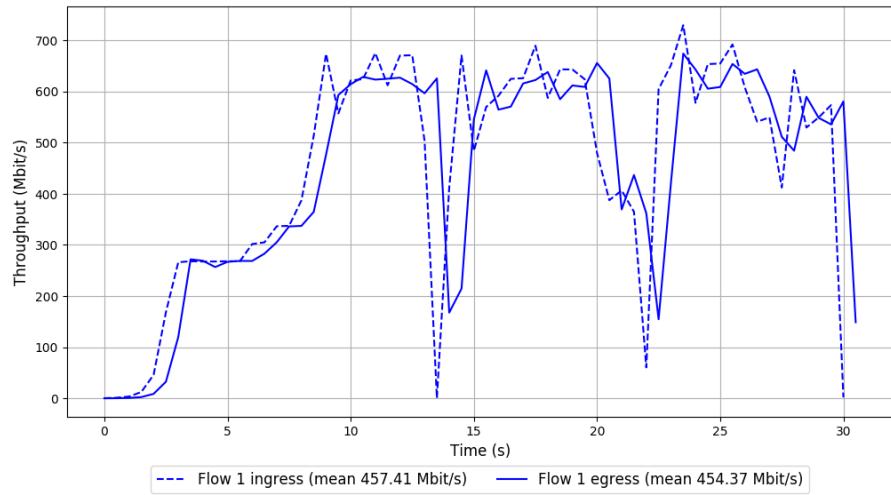


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-21 16:12:13
End at: 2019-01-21 16:12:43
Local clock offset: 0.187 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-01-21 18:44:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 454.37 Mbit/s
95th percentile per-packet one-way delay: 230.261 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 454.37 Mbit/s
95th percentile per-packet one-way delay: 230.261 ms
Loss rate: 0.67%
```

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

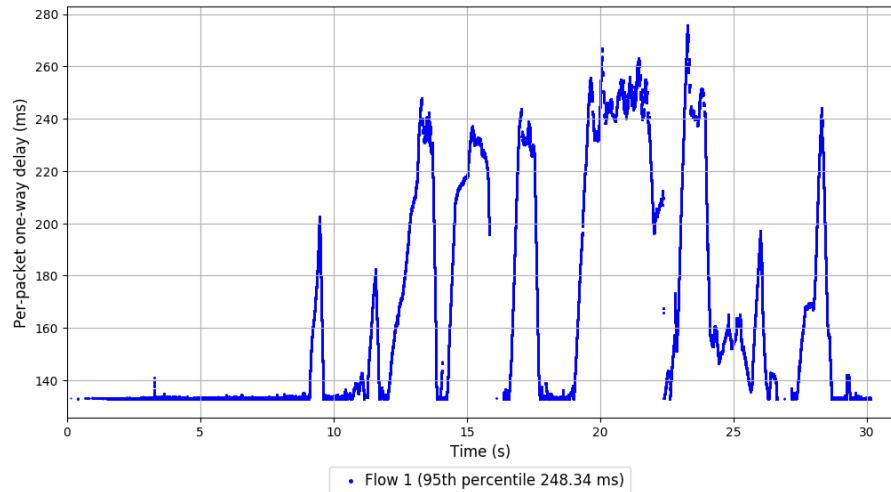
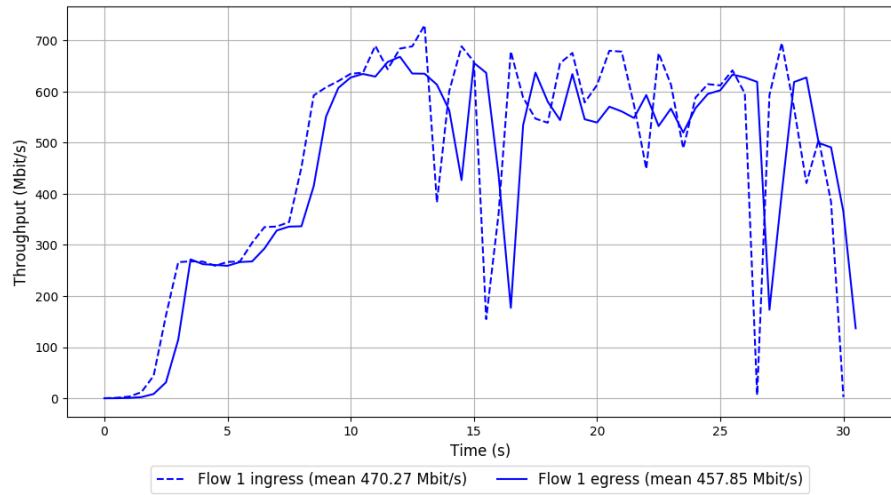


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-21 16:45:22
End at: 2019-01-21 16:45:52
Local clock offset: -0.05 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-01-21 18:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 457.85 Mbit/s
95th percentile per-packet one-way delay: 248.343 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 457.85 Mbit/s
95th percentile per-packet one-way delay: 248.343 ms
Loss rate: 2.64%
```

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

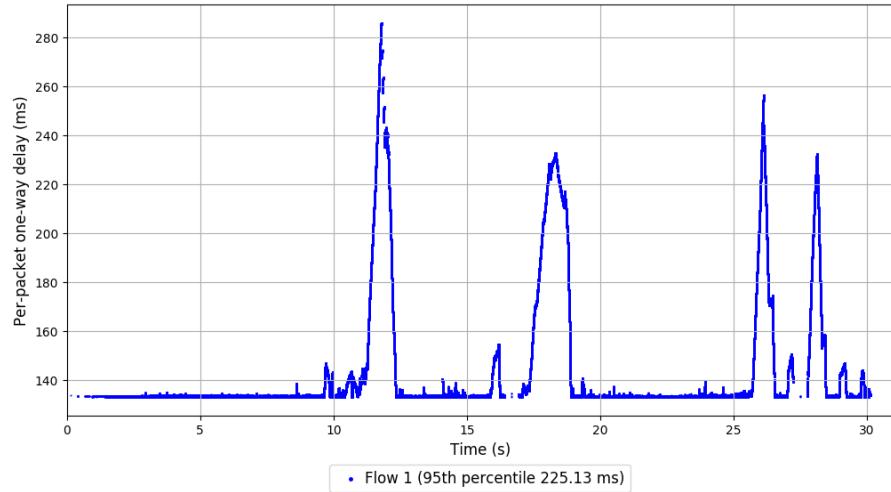
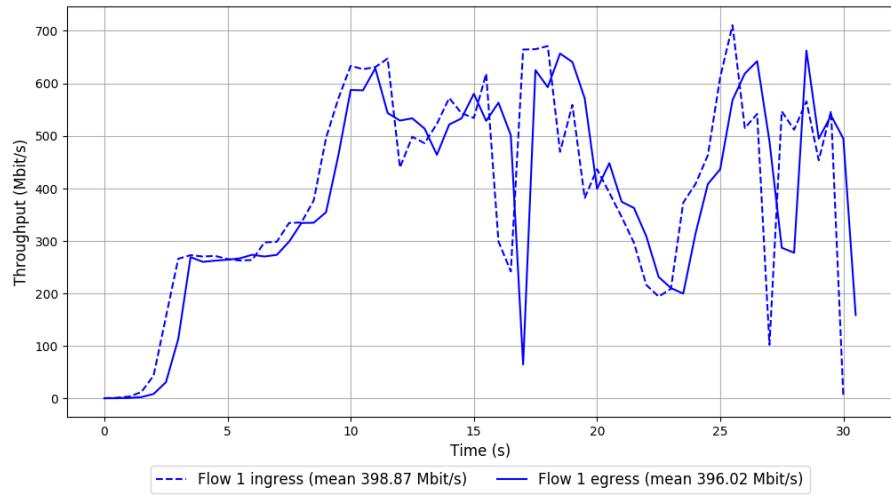


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-21 17:18:24
End at: 2019-01-21 17:18:54
Local clock offset: 0.283 ms
Remote clock offset: 0.394 ms

# Below is generated by plot.py at 2019-01-21 18:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 396.02 Mbit/s
95th percentile per-packet one-way delay: 225.133 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 396.02 Mbit/s
95th percentile per-packet one-way delay: 225.133 ms
Loss rate: 0.72%
```

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

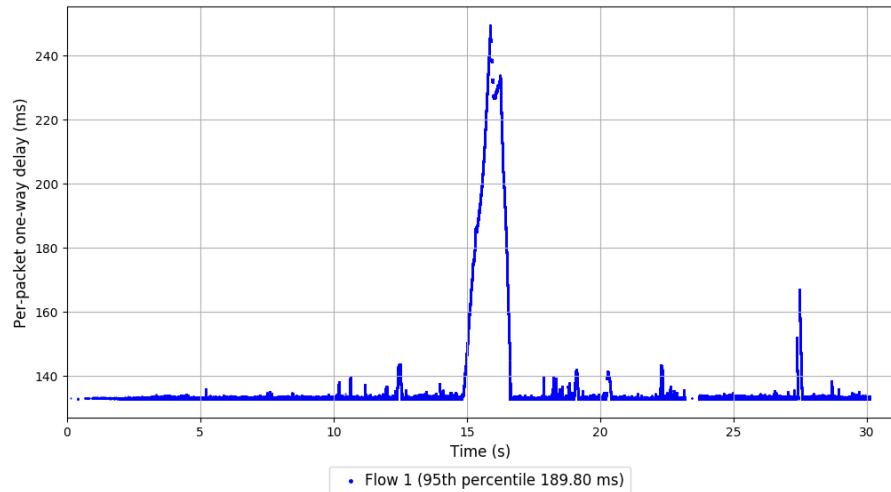
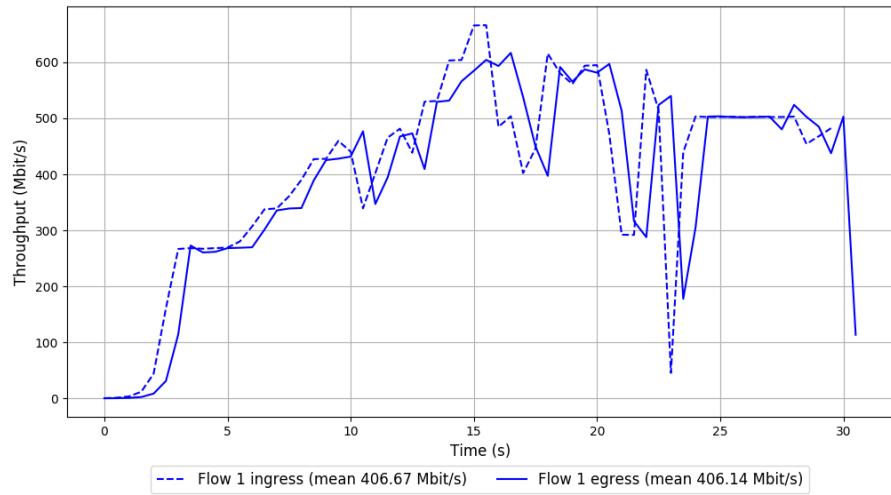


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-21 17:51:41
End at: 2019-01-21 17:52:11
Local clock offset: -0.031 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-01-21 18:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 406.14 Mbit/s
95th percentile per-packet one-way delay: 189.796 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 406.14 Mbit/s
95th percentile per-packet one-way delay: 189.796 ms
Loss rate: 0.13%
```

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

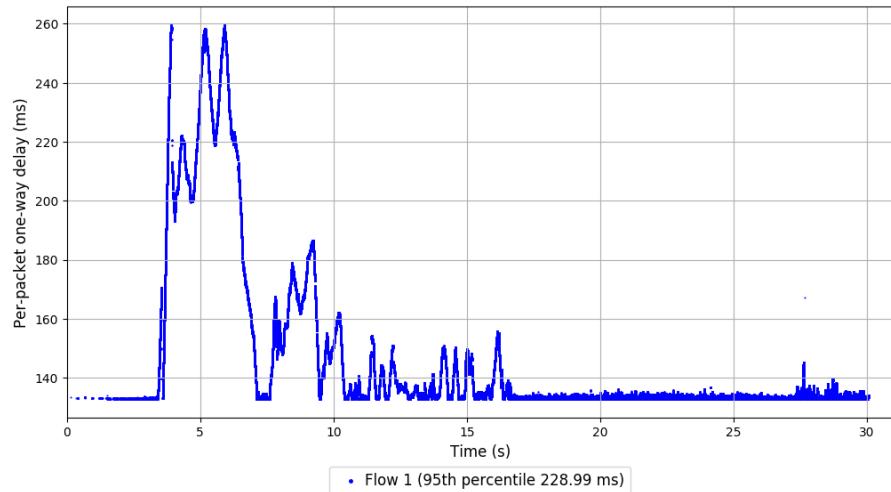
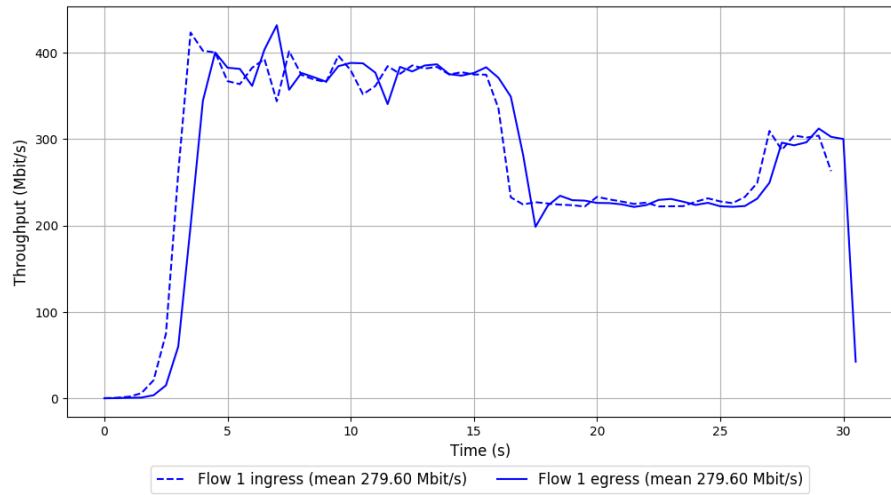


Run 1: Statistics of Copa

```
Start at: 2019-01-21 15:48:23
End at: 2019-01-21 15:48:53
Local clock offset: 0.221 ms
Remote clock offset: 0.423 ms

# Below is generated by plot.py at 2019-01-21 18:45:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 279.60 Mbit/s
95th percentile per-packet one-way delay: 228.986 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 279.60 Mbit/s
95th percentile per-packet one-way delay: 228.986 ms
Loss rate: 0.00%
```

## Run 1: Report of Copa — Data Link

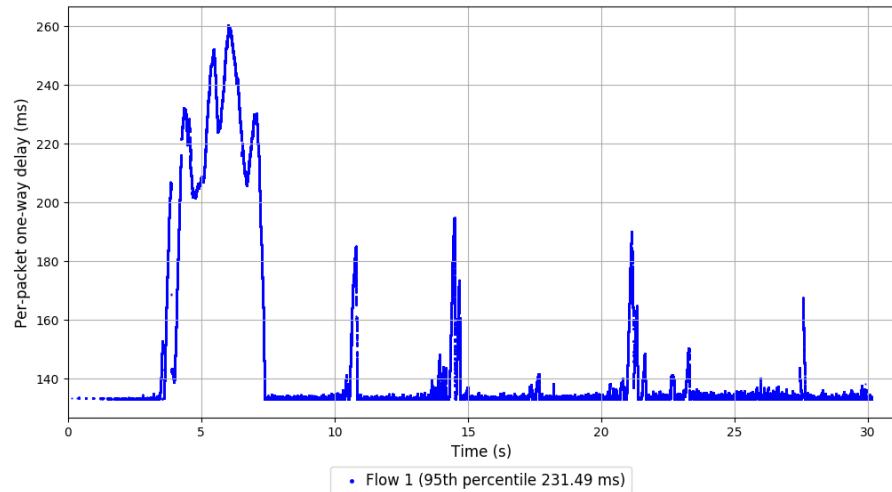
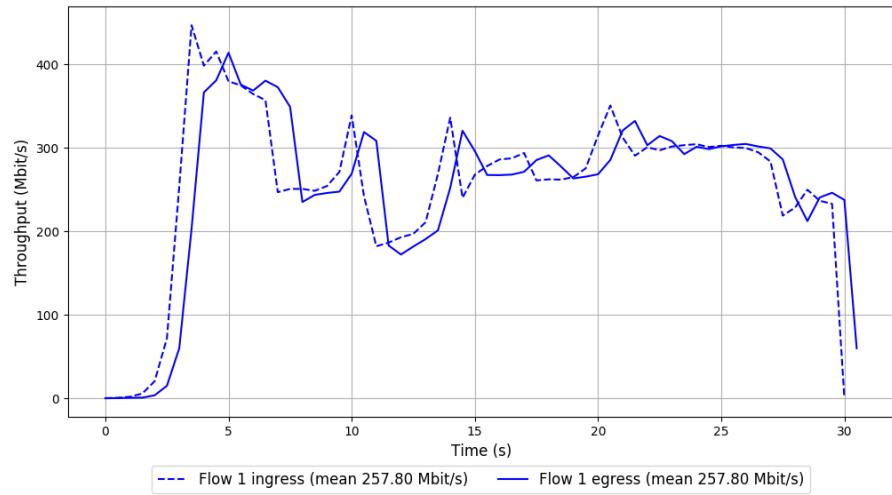


Run 2: Statistics of Copa

```
Start at: 2019-01-21 16:21:36
End at: 2019-01-21 16:22:06
Local clock offset: -0.277 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-01-21 18:45:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.80 Mbit/s
95th percentile per-packet one-way delay: 231.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 257.80 Mbit/s
95th percentile per-packet one-way delay: 231.487 ms
Loss rate: 0.00%
```

## Run 2: Report of Copa — Data Link

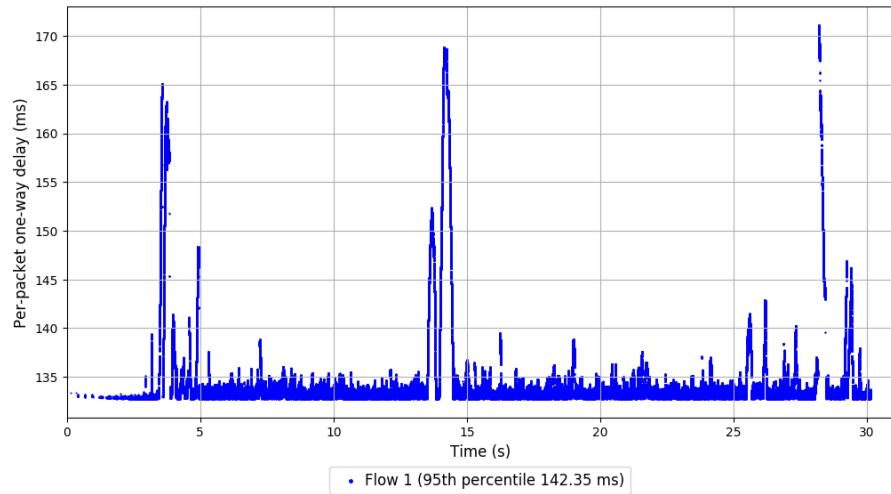
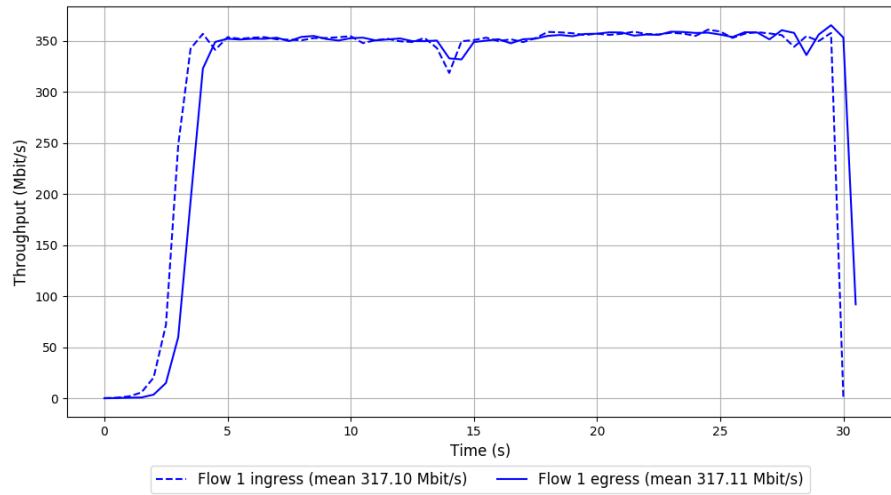


Run 3: Statistics of Copa

```
Start at: 2019-01-21 16:54:15
End at: 2019-01-21 16:54:45
Local clock offset: -0.508 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-01-21 18:47:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.11 Mbit/s
95th percentile per-packet one-way delay: 142.348 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 317.11 Mbit/s
95th percentile per-packet one-way delay: 142.348 ms
Loss rate: 0.00%
```

### Run 3: Report of Copa — Data Link

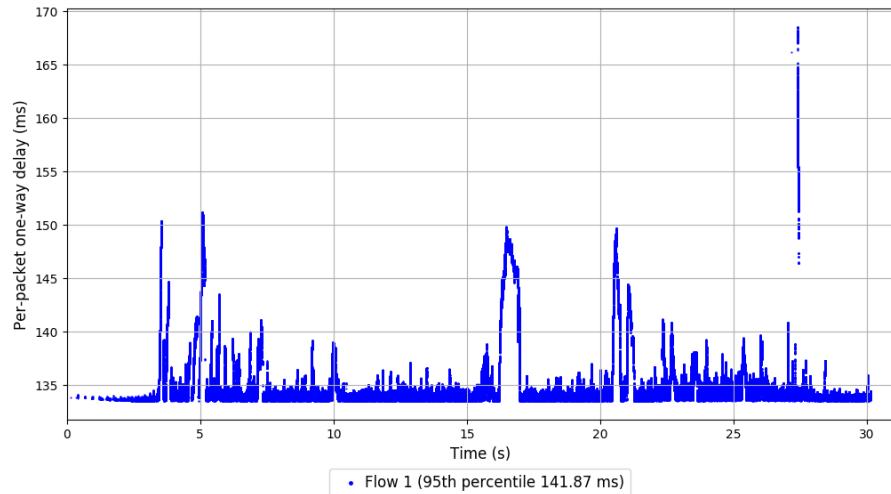
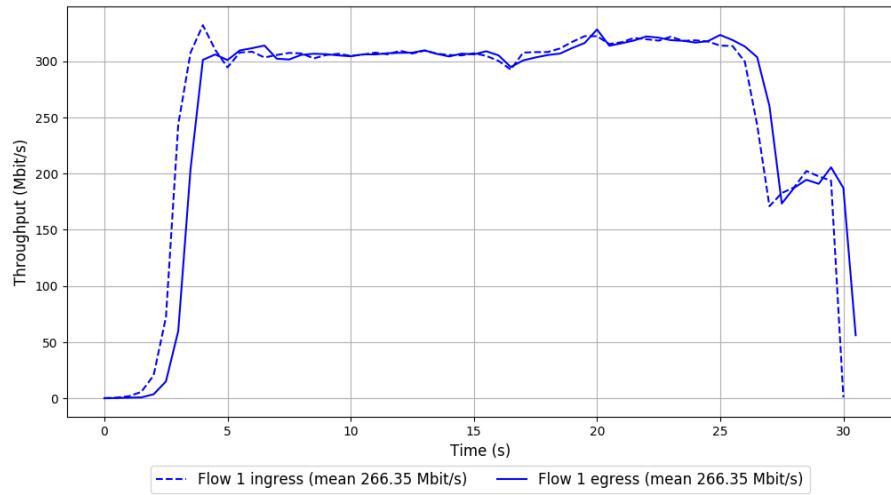


Run 4: Statistics of Copa

```
Start at: 2019-01-21 17:27:56
End at: 2019-01-21 17:28:26
Local clock offset: -0.23 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2019-01-21 18:55:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 266.35 Mbit/s
95th percentile per-packet one-way delay: 141.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 266.35 Mbit/s
95th percentile per-packet one-way delay: 141.873 ms
Loss rate: 0.00%
```

## Run 4: Report of Copa — Data Link

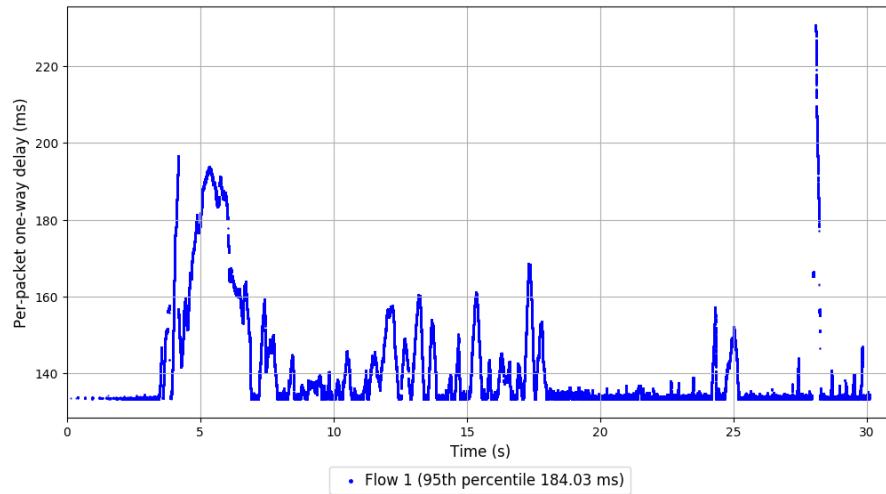
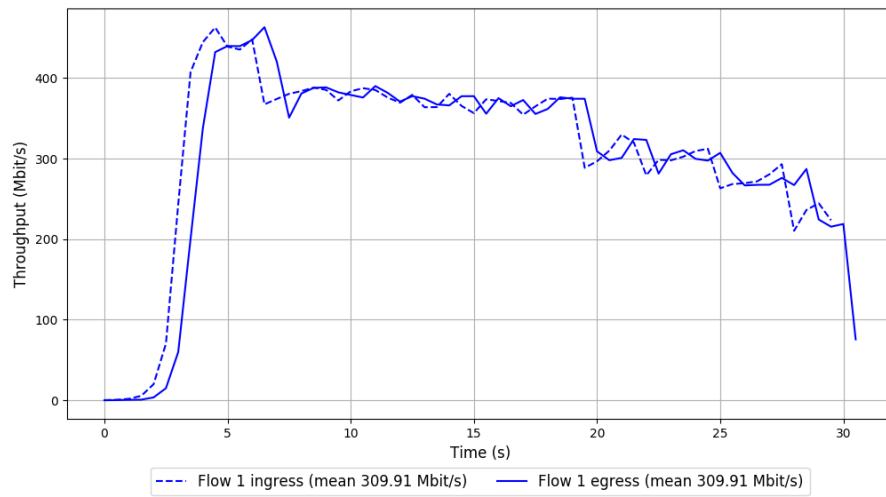


Run 5: Statistics of Copa

```
Start at: 2019-01-21 18:00:41
End at: 2019-01-21 18:01:11
Local clock offset: -0.193 ms
Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2019-01-21 18:56:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.91 Mbit/s
95th percentile per-packet one-way delay: 184.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 309.91 Mbit/s
95th percentile per-packet one-way delay: 184.030 ms
Loss rate: 0.00%
```

### Run 5: Report of Copa — Data Link

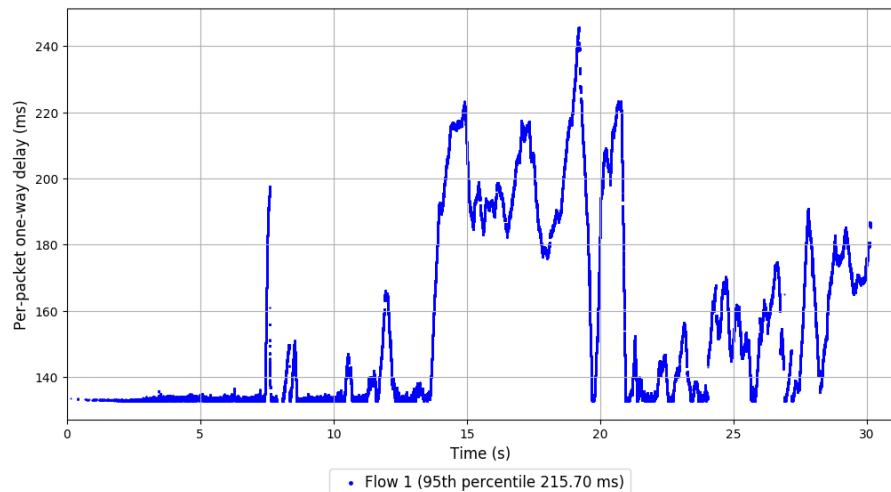
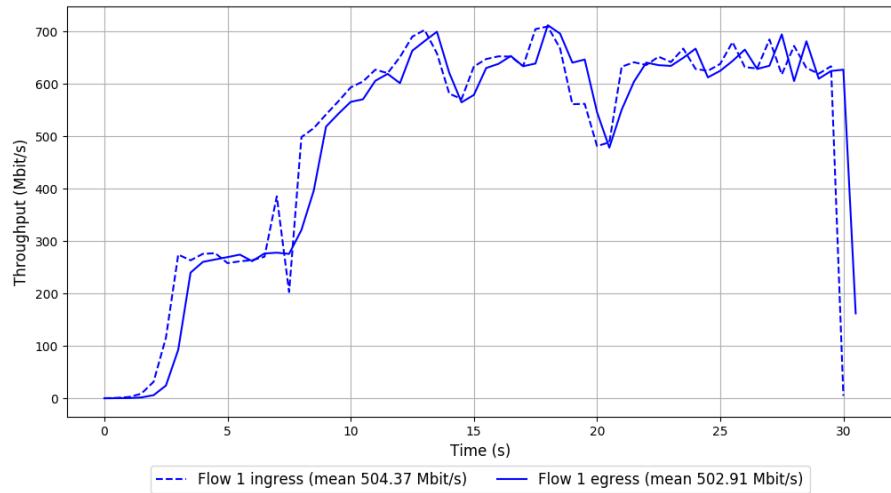


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-21 15:43:29
End at: 2019-01-21 15:43:59
Local clock offset: 0.183 ms
Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-01-21 18:56:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 502.91 Mbit/s
95th percentile per-packet one-way delay: 215.697 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 502.91 Mbit/s
95th percentile per-packet one-way delay: 215.697 ms
Loss rate: 0.29%
```

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

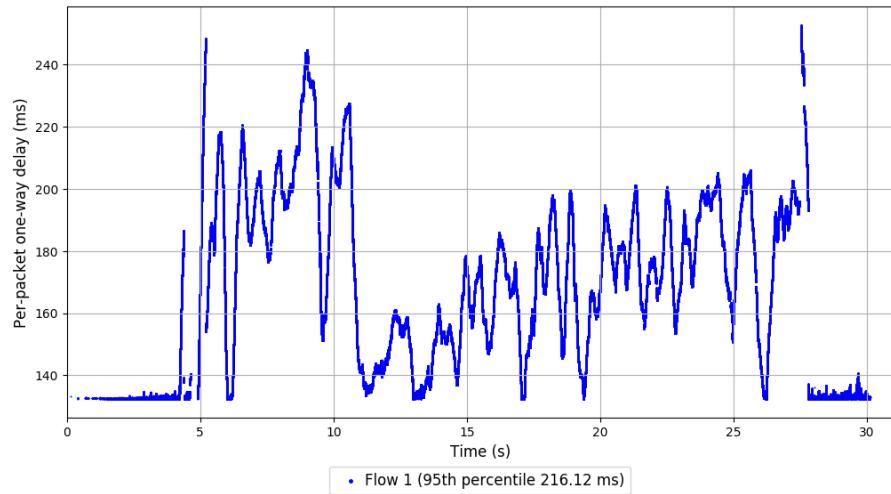
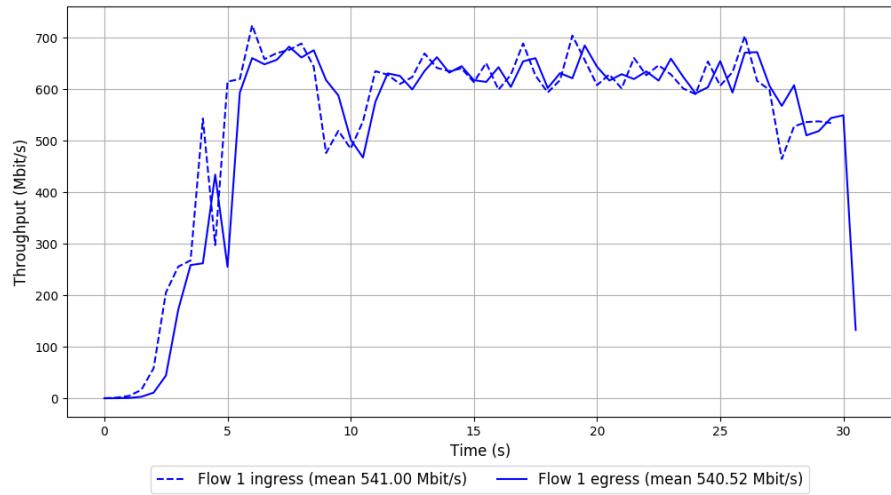


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-21 16:16:45
End at: 2019-01-21 16:17:15
Local clock offset: -0.102 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-01-21 18:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.52 Mbit/s
95th percentile per-packet one-way delay: 216.115 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 540.52 Mbit/s
95th percentile per-packet one-way delay: 216.115 ms
Loss rate: 0.09%
```

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

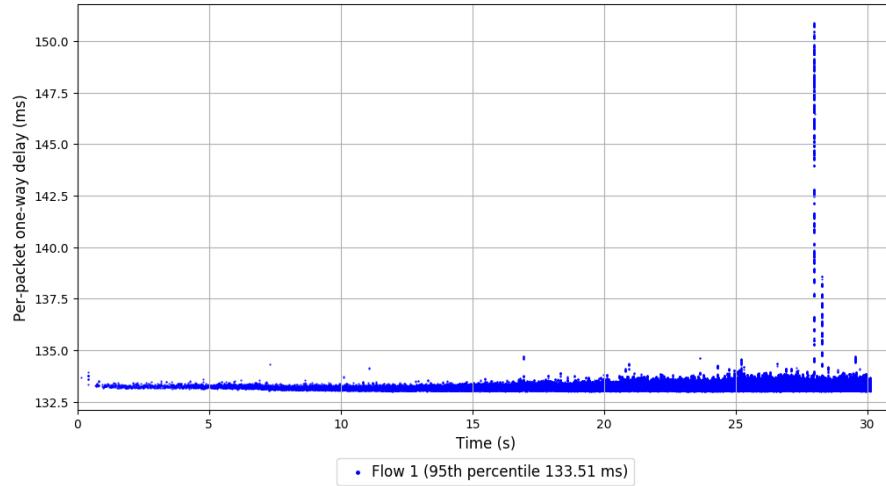
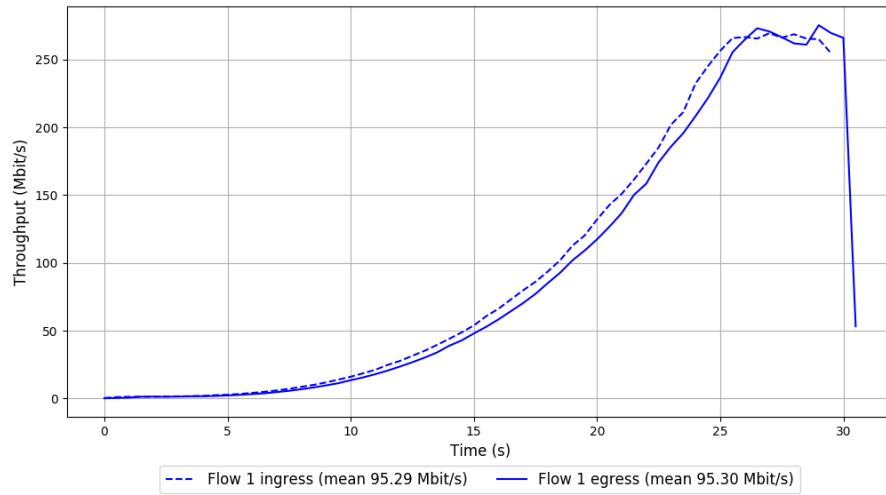


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-21 16:49:43
End at: 2019-01-21 16:50:13
Local clock offset: -0.035 ms
Remote clock offset: 0.395 ms

# Below is generated by plot.py at 2019-01-21 18:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.30 Mbit/s
95th percentile per-packet one-way delay: 133.506 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.30 Mbit/s
95th percentile per-packet one-way delay: 133.506 ms
Loss rate: 0.00%
```

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

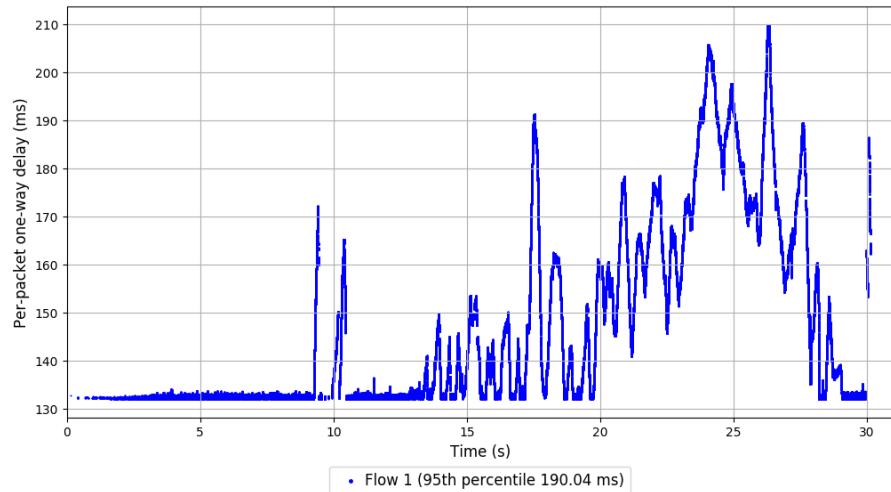
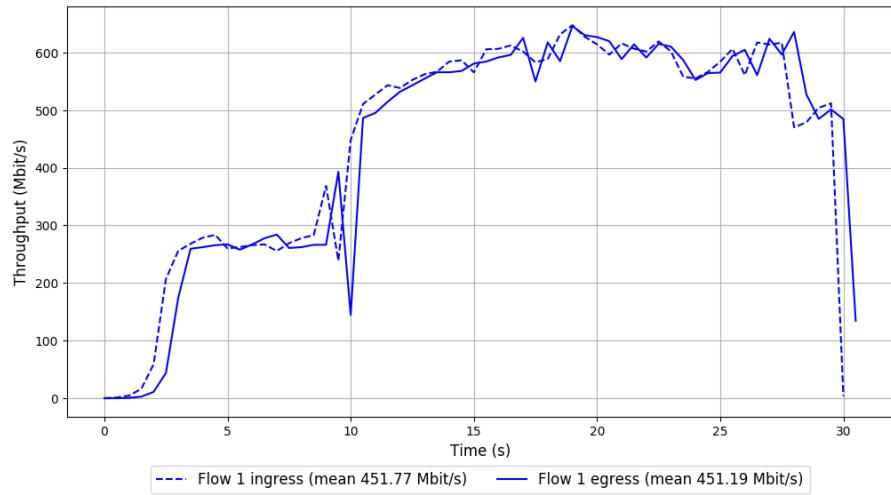


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-21 17:22:51
End at: 2019-01-21 17:23:21
Local clock offset: 0.194 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-01-21 18:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 451.19 Mbit/s
95th percentile per-packet one-way delay: 190.037 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 451.19 Mbit/s
95th percentile per-packet one-way delay: 190.037 ms
Loss rate: 0.12%
```

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

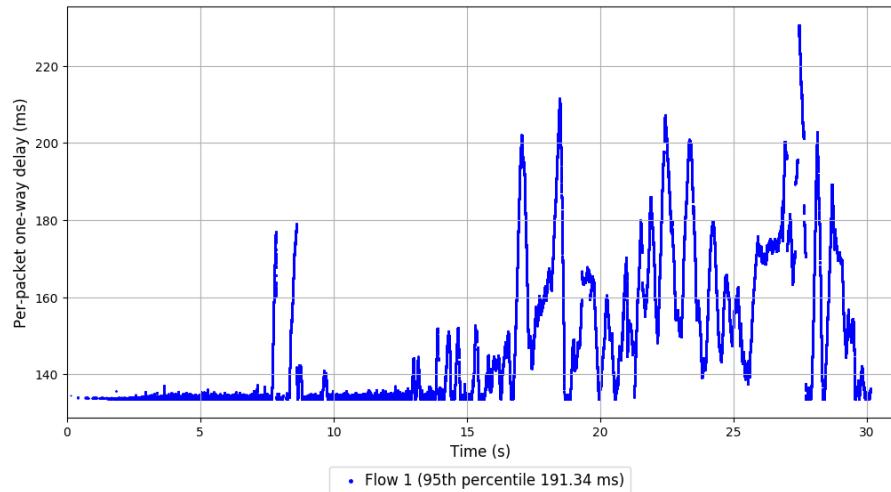
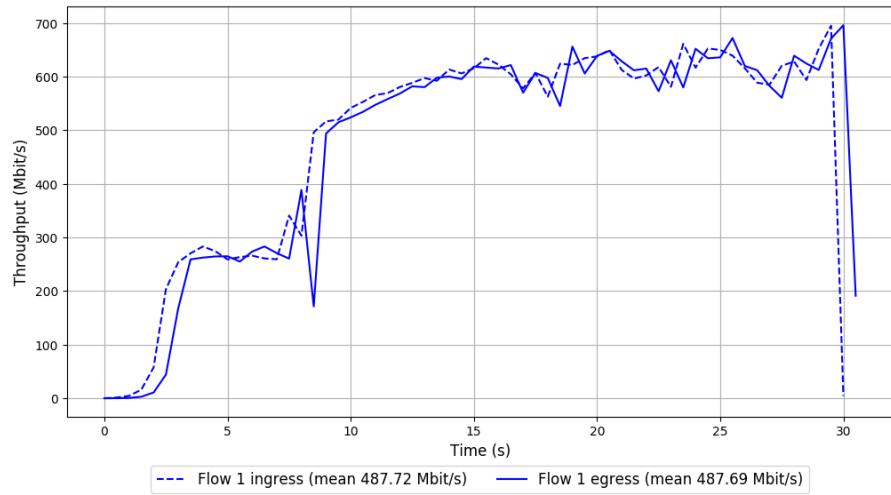


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-21 17:56:00
End at: 2019-01-21 17:56:30
Local clock offset: -0.59 ms
Remote clock offset: 0.147 ms

# Below is generated by plot.py at 2019-01-21 18:57:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 487.69 Mbit/s
95th percentile per-packet one-way delay: 191.343 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 487.69 Mbit/s
95th percentile per-packet one-way delay: 191.343 ms
Loss rate: 0.00%
```

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

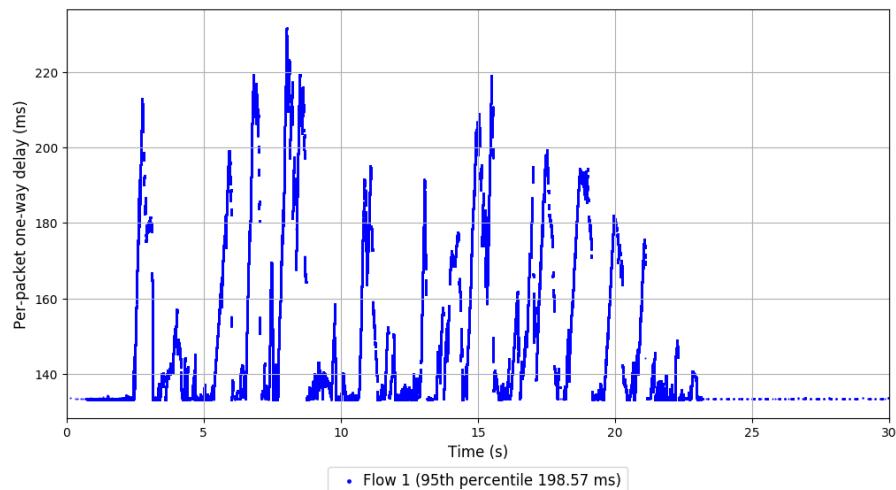
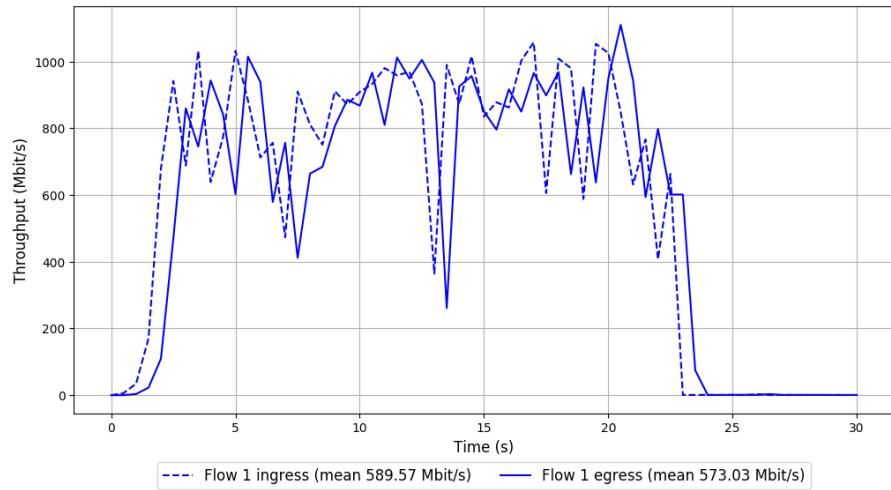


```
Run 1: Statistics of FillP

Start at: 2019-01-21 16:00:55
End at: 2019-01-21 16:01:25
Local clock offset: -0.526 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-01-21 19:02:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 573.03 Mbit/s
95th percentile per-packet one-way delay: 198.573 ms
Loss rate: 2.81%
-- Flow 1:
Average throughput: 573.03 Mbit/s
95th percentile per-packet one-way delay: 198.573 ms
Loss rate: 2.81%
```

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

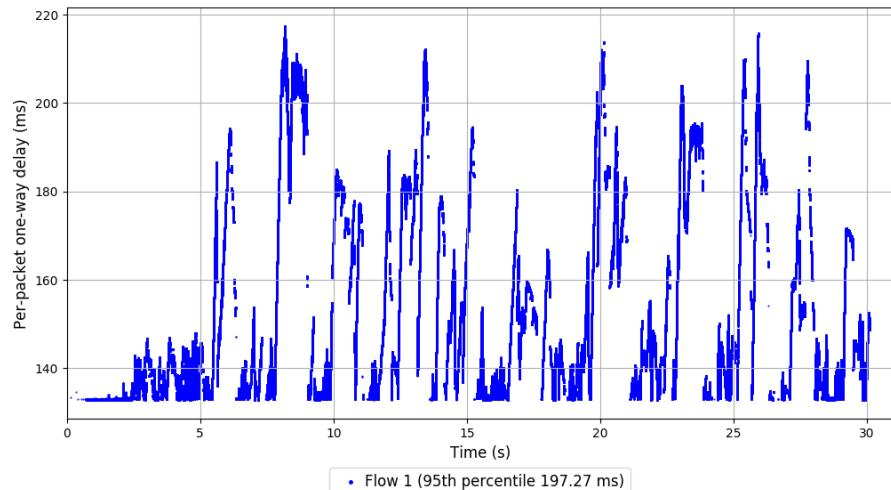
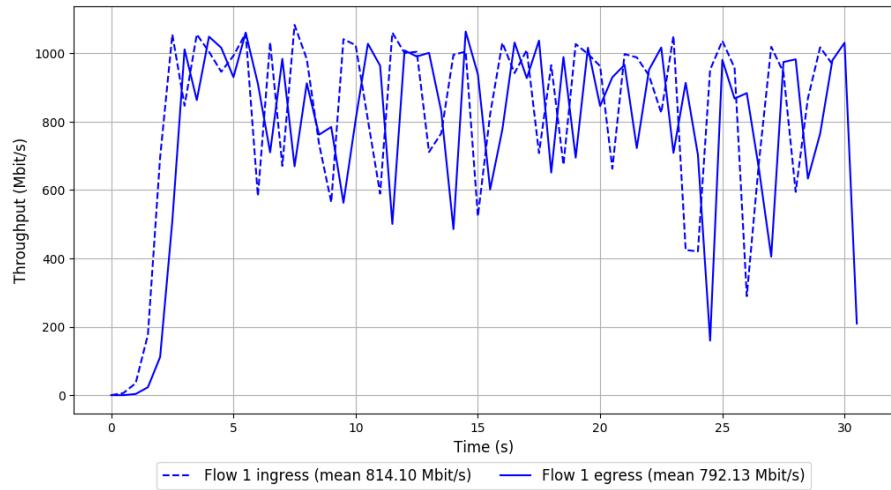


Run 2: Statistics of FillP

```
Start at: 2019-01-21 16:33:44
End at: 2019-01-21 16:34:14
Local clock offset: 0.359 ms
Remote clock offset: 0.355 ms

# Below is generated by plot.py at 2019-01-21 19:11:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 792.13 Mbit/s
95th percentile per-packet one-way delay: 197.269 ms
Loss rate: 2.70%
-- Flow 1:
Average throughput: 792.13 Mbit/s
95th percentile per-packet one-way delay: 197.269 ms
Loss rate: 2.70%
```

## Run 2: Report of FillP — Data Link

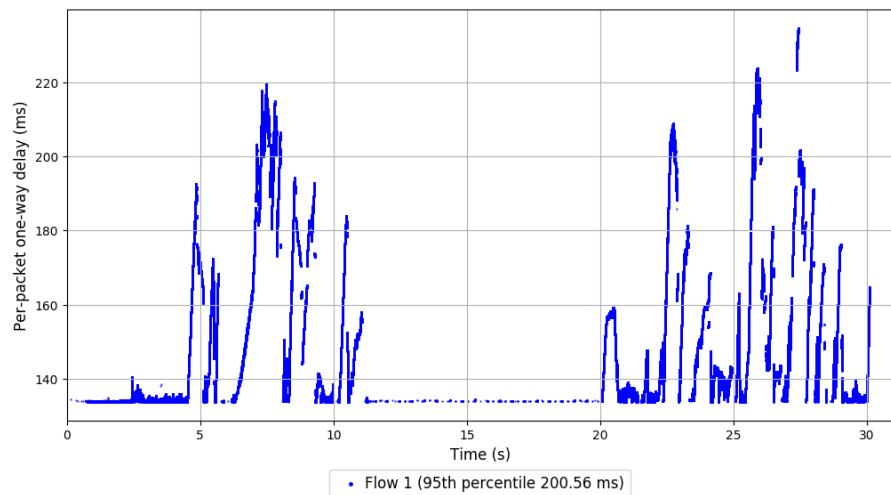
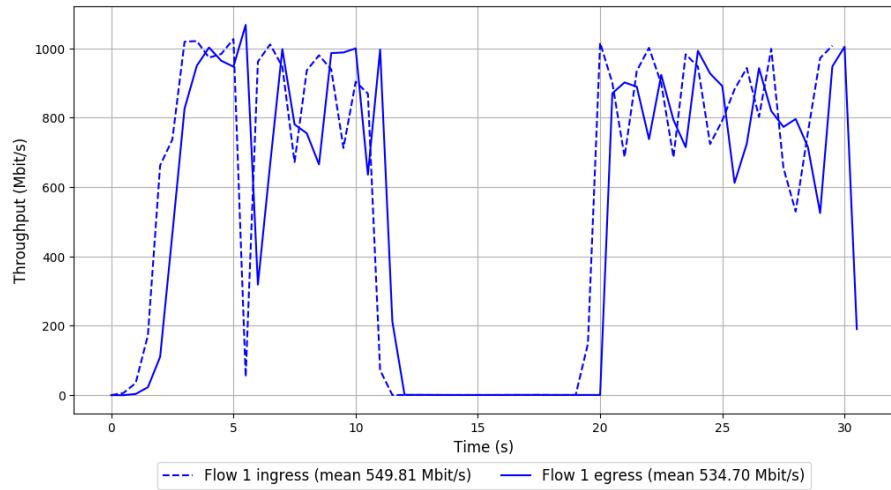


```
Run 3: Statistics of FillP
```

```
Start at: 2019-01-21 17:07:31
End at: 2019-01-21 17:08:01
Local clock offset: -0.15 ms
Remote clock offset: 0.371 ms

# Below is generated by plot.py at 2019-01-21 19:11:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.70 Mbit/s
95th percentile per-packet one-way delay: 200.563 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 534.70 Mbit/s
95th percentile per-packet one-way delay: 200.563 ms
Loss rate: 2.75%
```

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

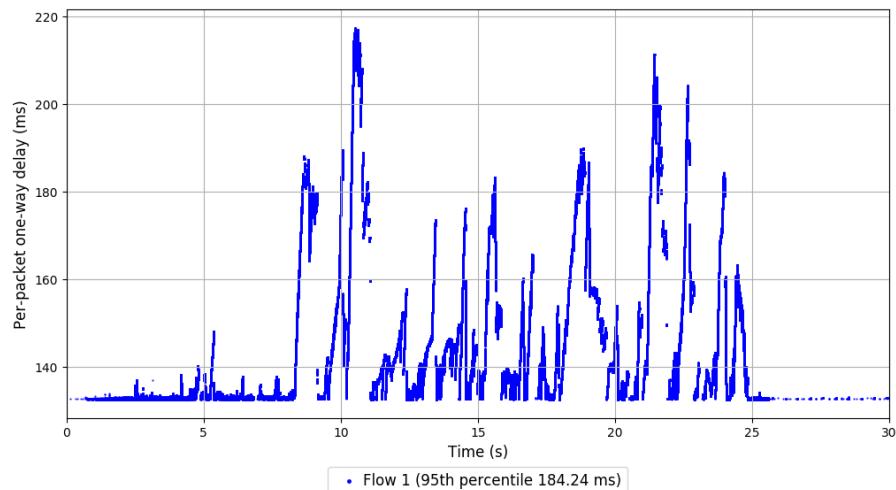
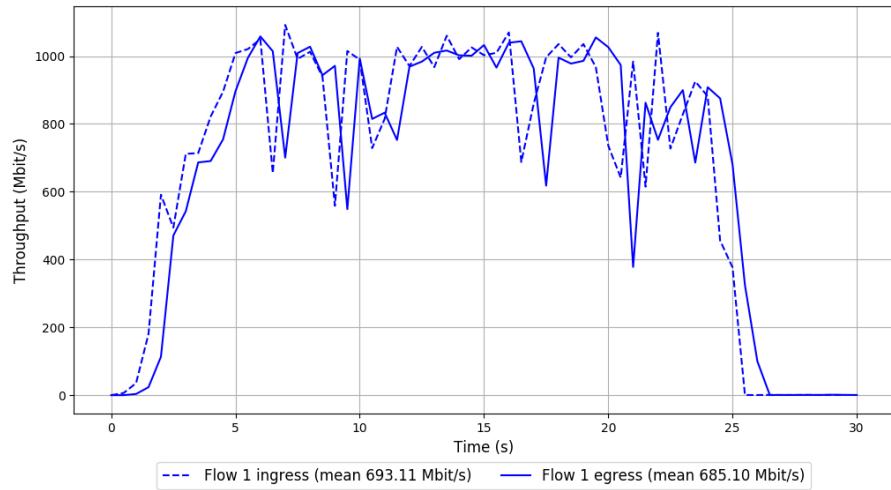


```
Run 4: Statistics of FillP
```

```
Start at: 2019-01-21 17:40:47
End at: 2019-01-21 17:41:18
Local clock offset: -0.08 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-01-21 19:16:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 685.10 Mbit/s
95th percentile per-packet one-way delay: 184.241 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 685.10 Mbit/s
95th percentile per-packet one-way delay: 184.241 ms
Loss rate: 1.16%
```

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

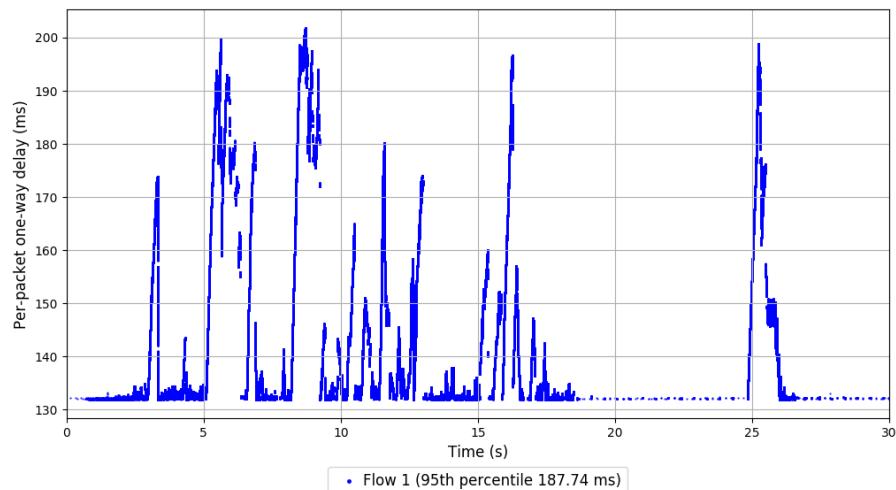
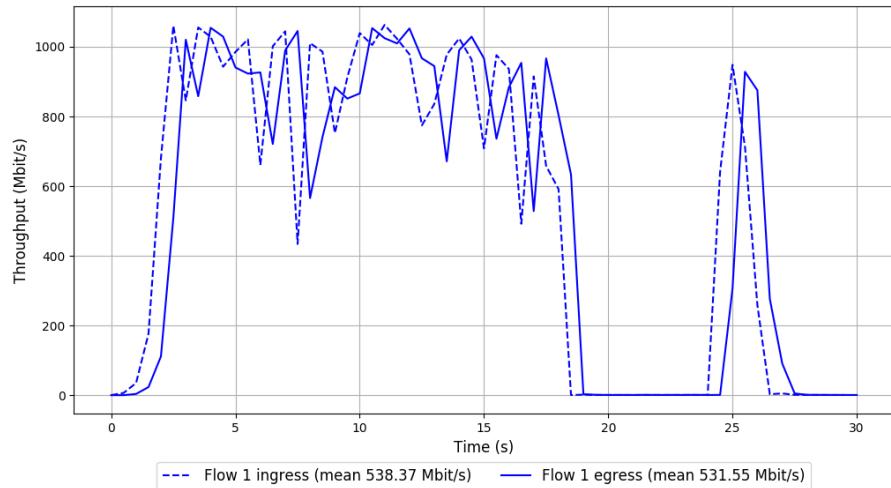


```
Run 5: Statistics of FillP
```

```
Start at: 2019-01-21 18:13:09
End at: 2019-01-21 18:13:39
Local clock offset: 0.185 ms
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2019-01-21 19:16:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 531.55 Mbit/s
95th percentile per-packet one-way delay: 187.740 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 531.55 Mbit/s
95th percentile per-packet one-way delay: 187.740 ms
Loss rate: 1.27%
```

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

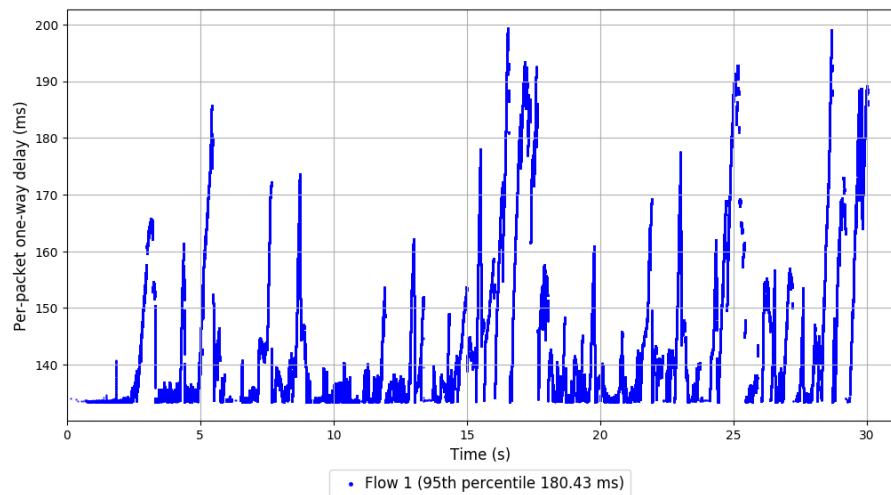
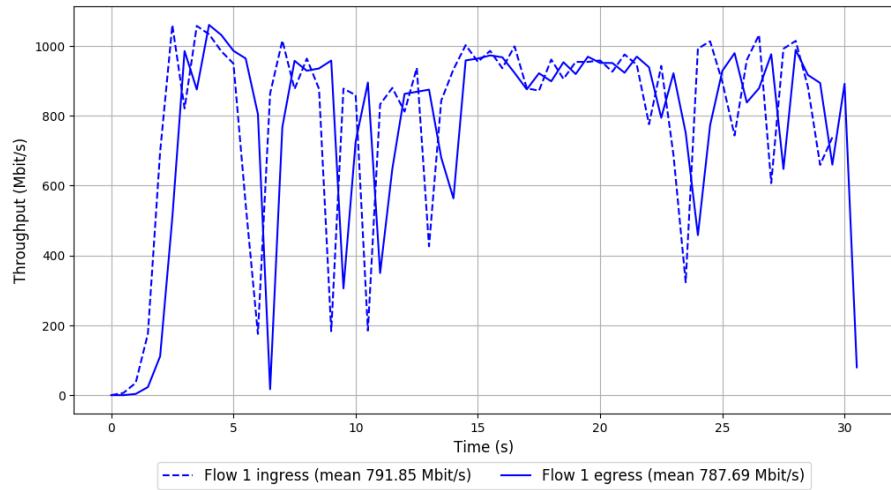


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-21 16:10:08
End at: 2019-01-21 16:10:38
Local clock offset: -0.116 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2019-01-21 19:20:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 787.69 Mbit/s
95th percentile per-packet one-way delay: 180.428 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 787.69 Mbit/s
95th percentile per-packet one-way delay: 180.428 ms
Loss rate: 0.52%
```

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

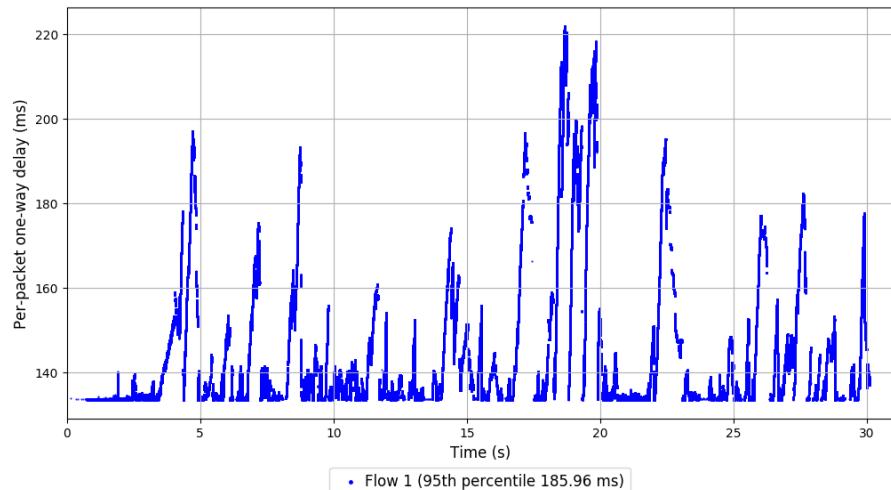
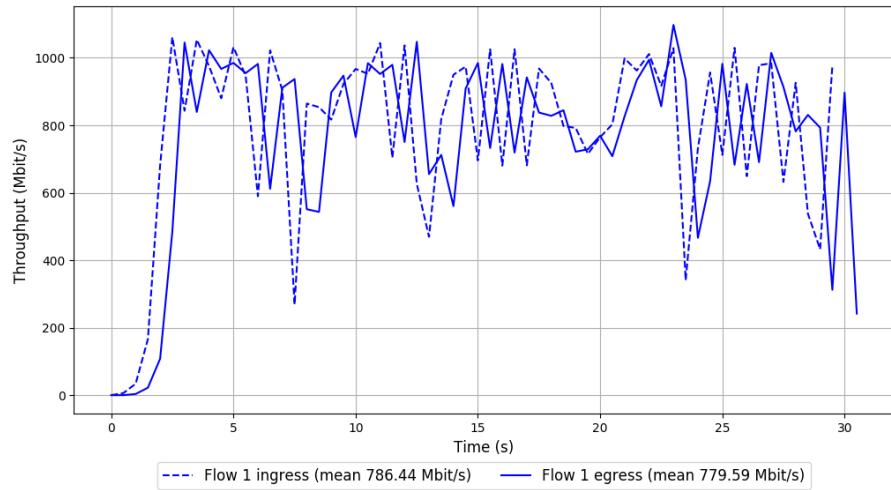


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-21 16:43:23
End at: 2019-01-21 16:43:53
Local clock offset: -0.452 ms
Remote clock offset: -0.375 ms

# Below is generated by plot.py at 2019-01-21 19:20:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 779.59 Mbit/s
95th percentile per-packet one-way delay: 185.961 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 779.59 Mbit/s
95th percentile per-packet one-way delay: 185.961 ms
Loss rate: 0.87%
```

Run 2: Report of FillP-Sheep — Data Link

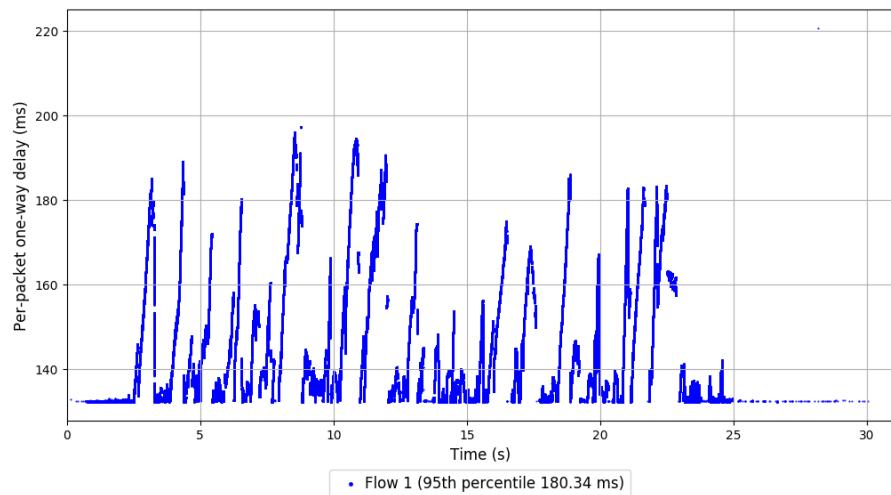
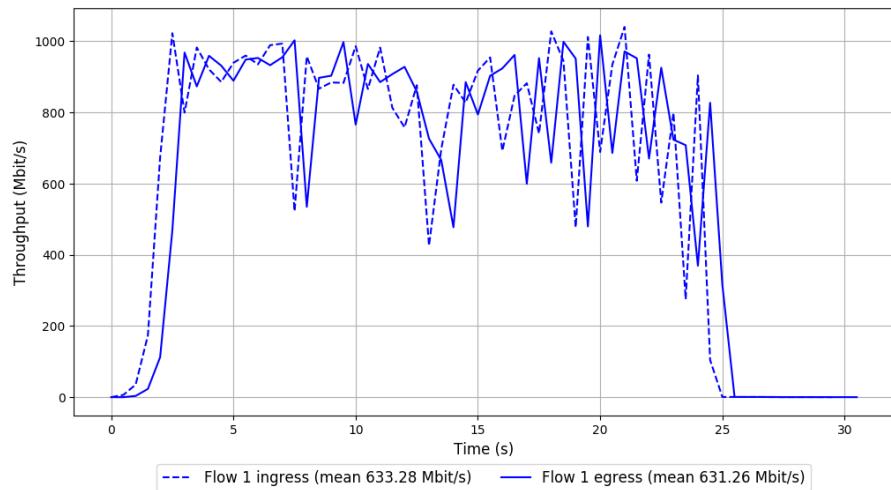


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-21 17:16:43
End at: 2019-01-21 17:17:13
Local clock offset: 0.01 ms
Remote clock offset: -0.328 ms

# Below is generated by plot.py at 2019-01-21 19:20:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 631.26 Mbit/s
95th percentile per-packet one-way delay: 180.345 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 631.26 Mbit/s
95th percentile per-packet one-way delay: 180.345 ms
Loss rate: 0.32%
```

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

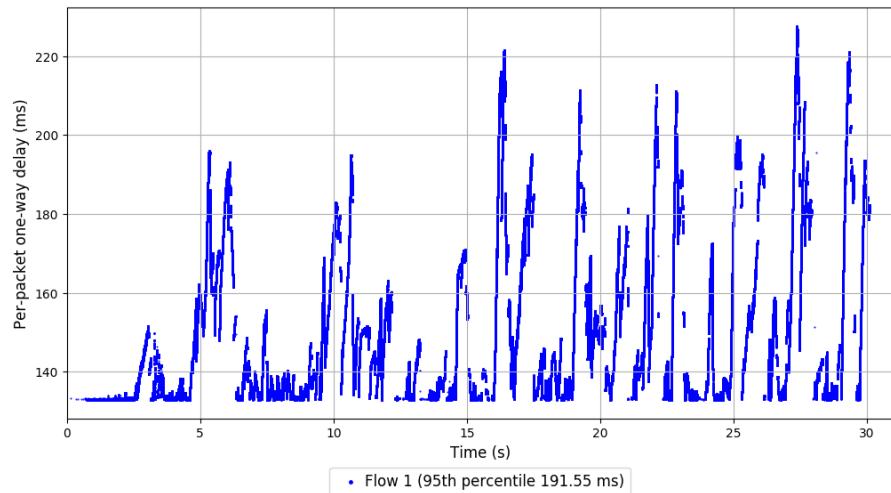
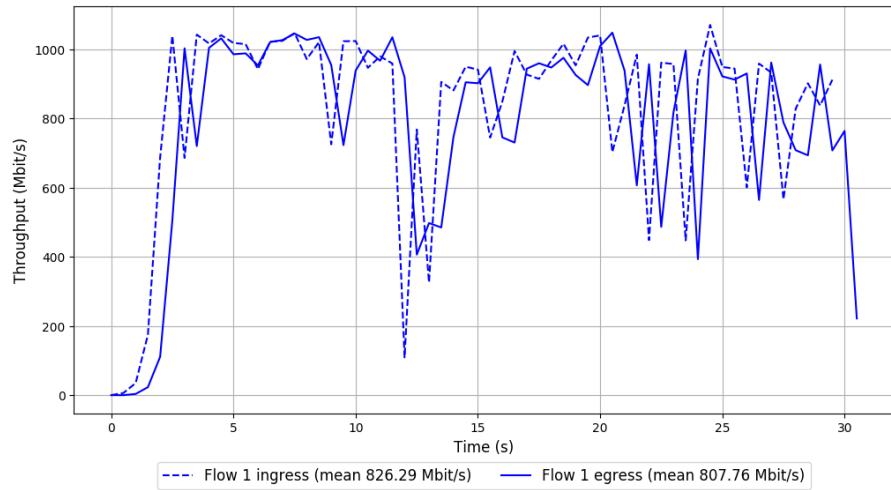


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-21 17:49:52
End at: 2019-01-21 17:50:22
Local clock offset: 0.191 ms
Remote clock offset: 0.164 ms

# Below is generated by plot.py at 2019-01-21 19:28:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 807.76 Mbit/s
95th percentile per-packet one-way delay: 191.552 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 807.76 Mbit/s
95th percentile per-packet one-way delay: 191.552 ms
Loss rate: 2.24%
```

Run 4: Report of FillP-Sheep — Data Link

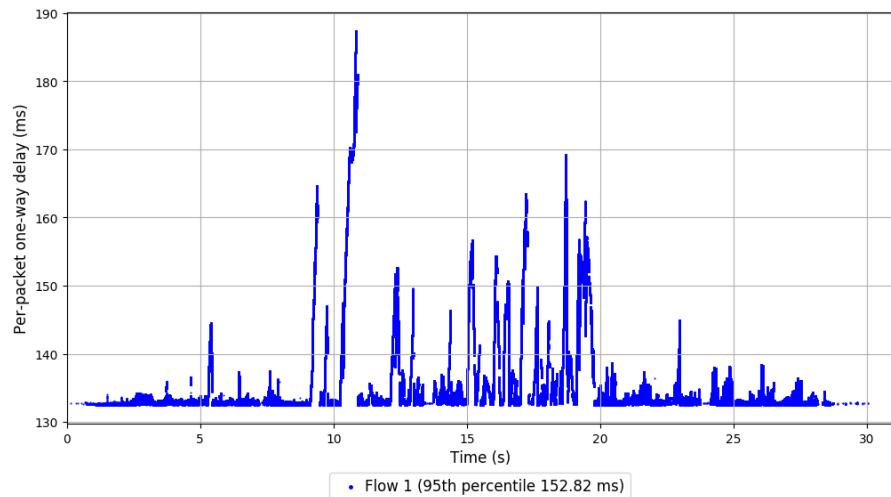
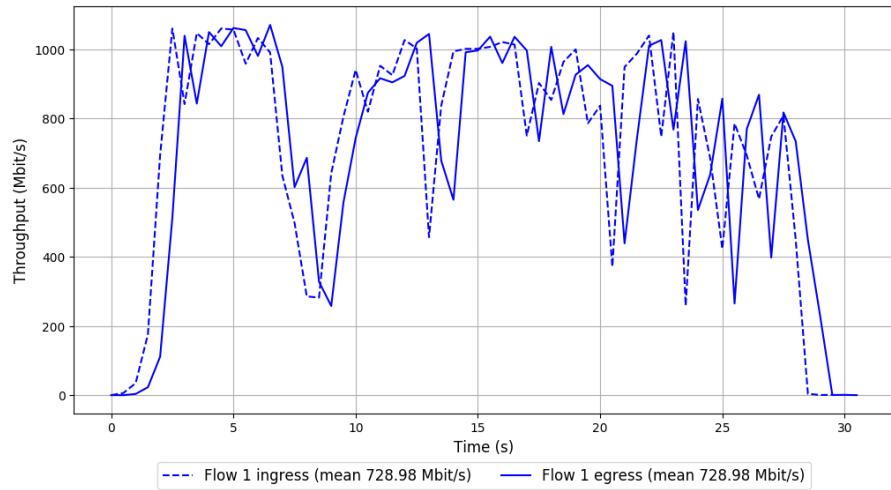


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-21 18:22:08
End at: 2019-01-21 18:22:39
Local clock offset: 0.001 ms
Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2019-01-21 19:33:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 728.98 Mbit/s
95th percentile per-packet one-way delay: 152.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 728.98 Mbit/s
95th percentile per-packet one-way delay: 152.823 ms
Loss rate: 0.00%
```

Run 5: Report of FillP-Sheep — Data Link

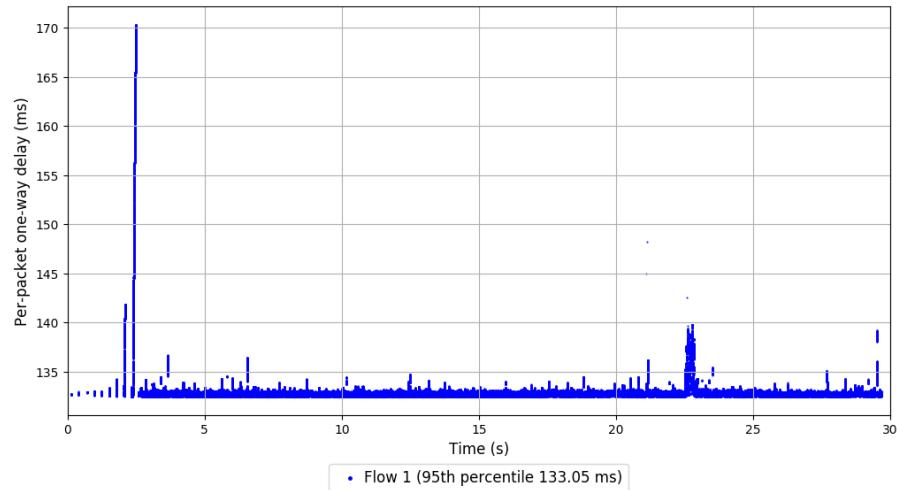
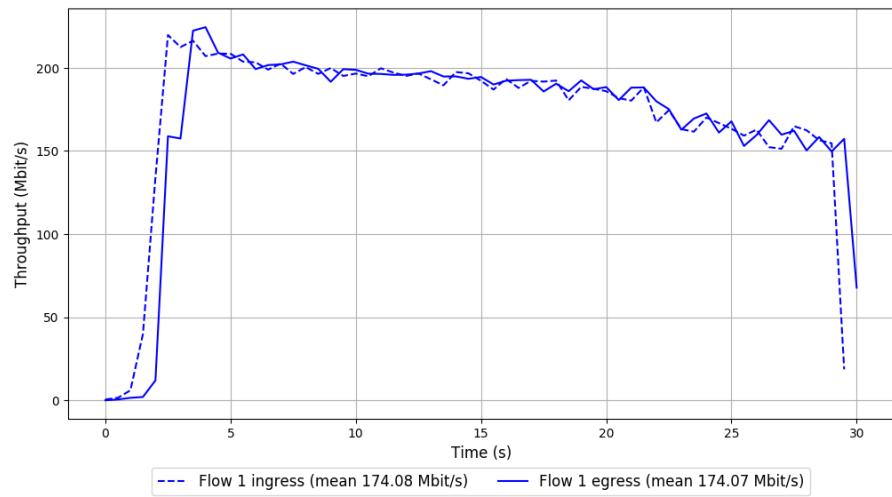


Run 1: Statistics of Indigo

```
Start at: 2019-01-21 16:04:32
End at: 2019-01-21 16:05:02
Local clock offset: 0.092 ms
Remote clock offset: -0.318 ms

# Below is generated by plot.py at 2019-01-21 19:33:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 174.07 Mbit/s
95th percentile per-packet one-way delay: 133.054 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 174.07 Mbit/s
95th percentile per-packet one-way delay: 133.054 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link

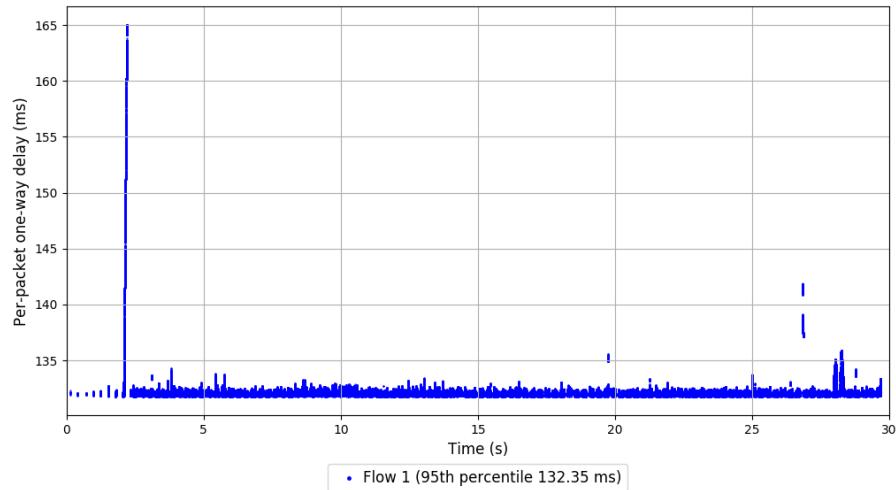
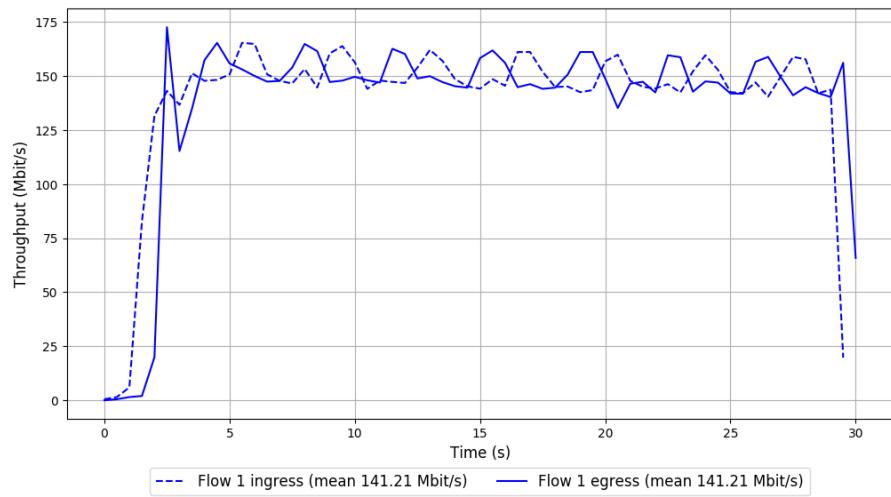


Run 2: Statistics of Indigo

```
Start at: 2019-01-21 16:37:31
End at: 2019-01-21 16:38:01
Local clock offset: 0.515 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-01-21 19:33:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 141.21 Mbit/s
95th percentile per-packet one-way delay: 132.351 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 141.21 Mbit/s
95th percentile per-packet one-way delay: 132.351 ms
Loss rate: 0.00%
```

## Run 2: Report of Indigo — Data Link

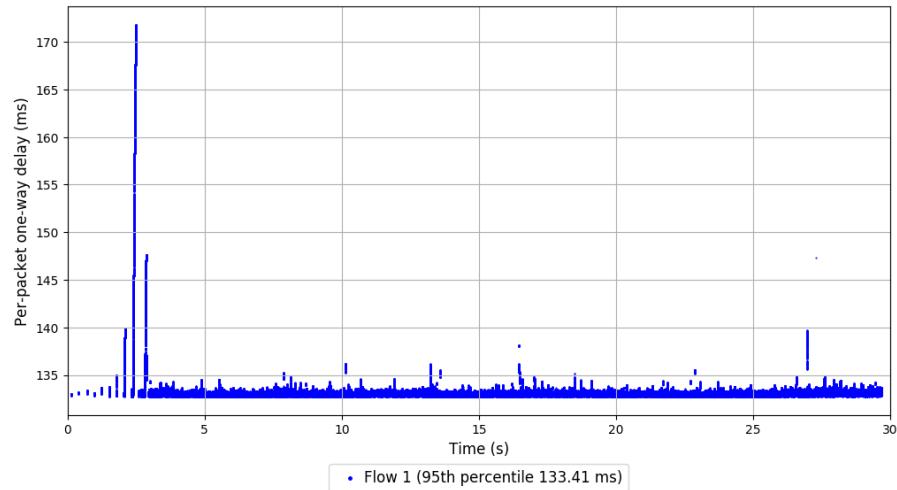
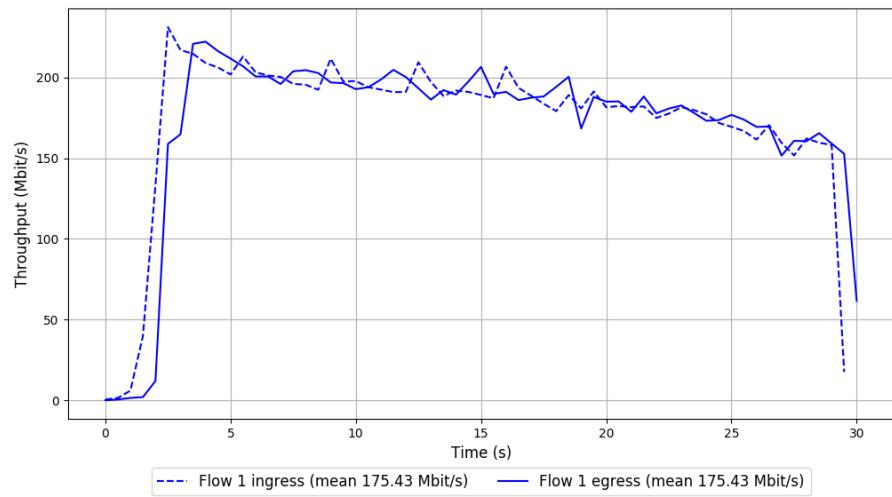


Run 3: Statistics of Indigo

```
Start at: 2019-01-21 17:11:09
End at: 2019-01-21 17:11:39
Local clock offset: 0.251 ms
Remote clock offset: 0.401 ms

# Below is generated by plot.py at 2019-01-21 19:33:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.43 Mbit/s
95th percentile per-packet one-way delay: 133.413 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 175.43 Mbit/s
95th percentile per-packet one-way delay: 133.413 ms
Loss rate: 0.00%
```

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

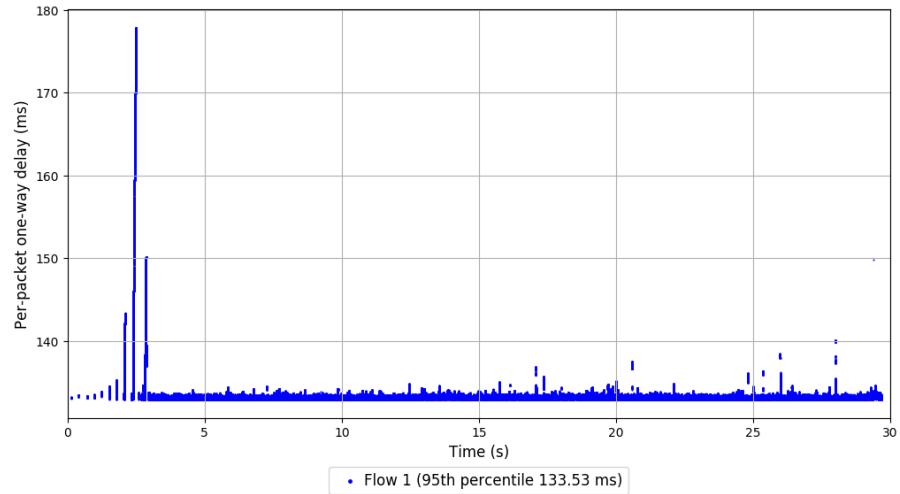
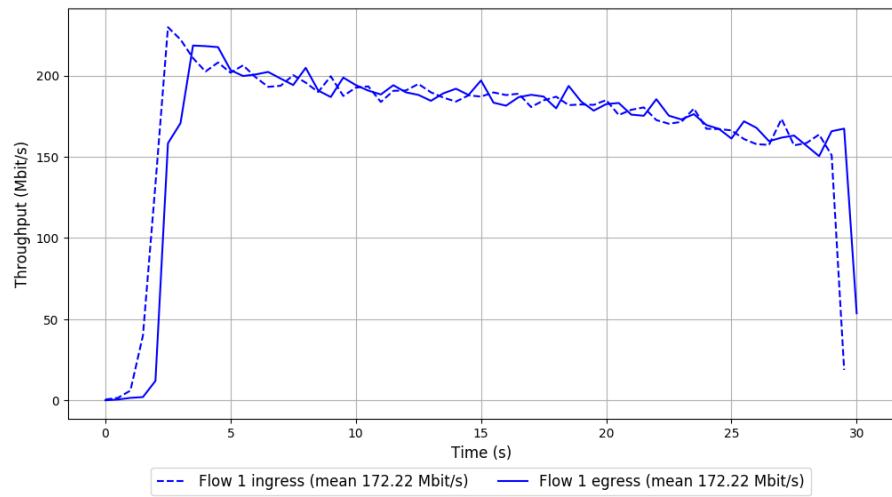


Run 4: Statistics of Indigo

```
Start at: 2019-01-21 17:44:16
End at: 2019-01-21 17:44:46
Local clock offset: -0.374 ms
Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2019-01-21 19:33:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 172.22 Mbit/s
95th percentile per-packet one-way delay: 133.534 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 172.22 Mbit/s
95th percentile per-packet one-way delay: 133.534 ms
Loss rate: 0.00%
```

## Run 4: Report of Indigo — Data Link

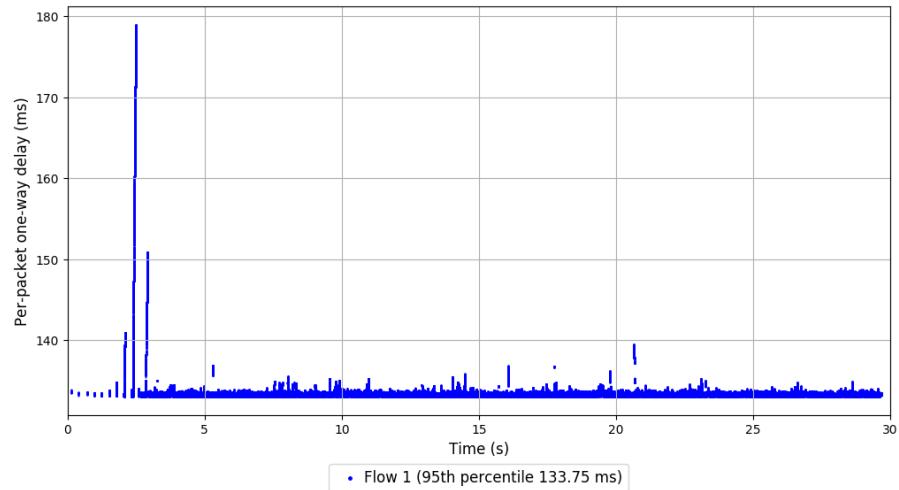
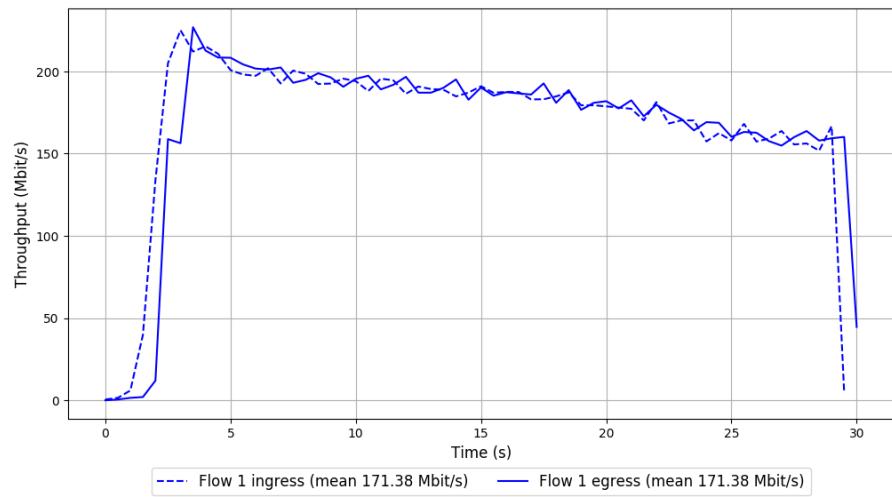


Run 5: Statistics of Indigo

```
Start at: 2019-01-21 18:16:29
End at: 2019-01-21 18:16:59
Local clock offset: -0.38 ms
Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2019-01-21 19:33:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.38 Mbit/s
95th percentile per-packet one-way delay: 133.746 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 171.38 Mbit/s
95th percentile per-packet one-way delay: 133.746 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

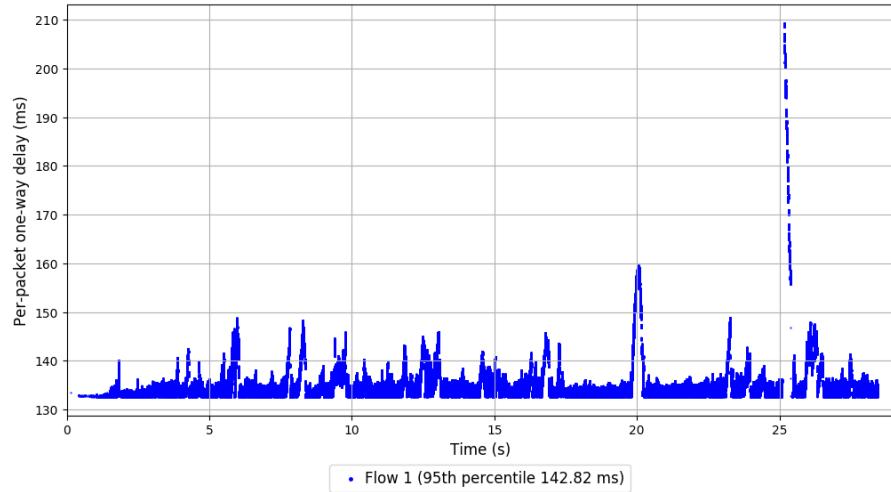
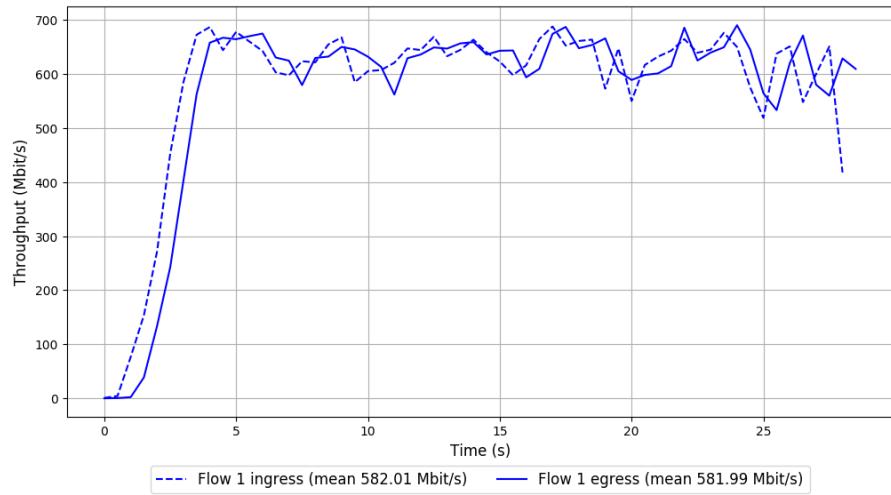


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 16:07:14
End at: 2019-01-21 16:07:44
Local clock offset: 0.091 ms
Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2019-01-21 19:33:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 581.99 Mbit/s
95th percentile per-packet one-way delay: 142.825 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 581.99 Mbit/s
95th percentile per-packet one-way delay: 142.825 ms
Loss rate: 0.01%
```

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

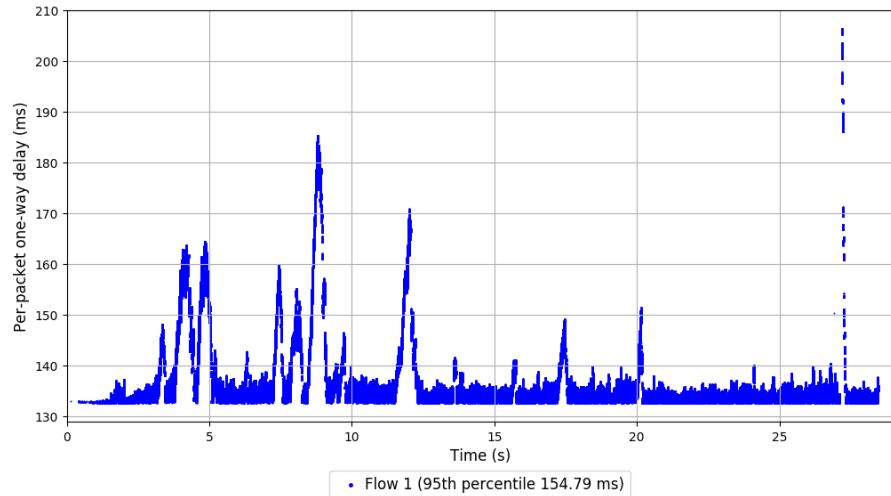
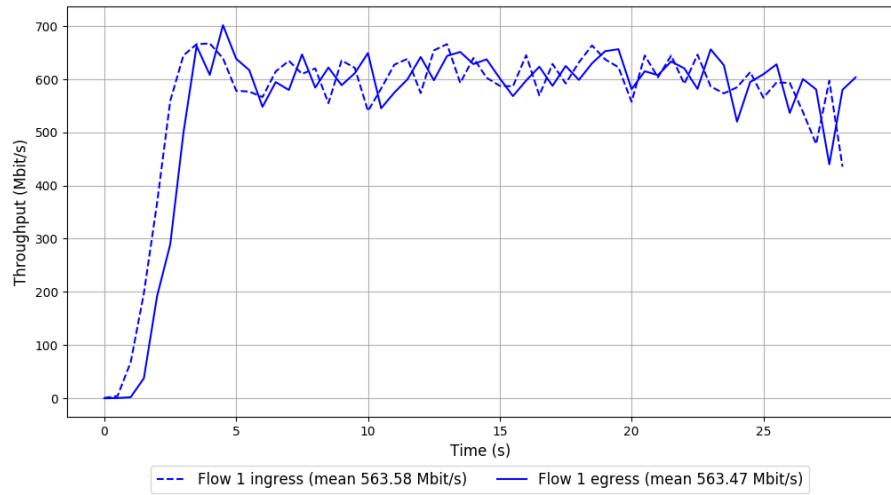


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 16:40:25
End at: 2019-01-21 16:40:55
Local clock offset: -0.201 ms
Remote clock offset: -0.374 ms

# Below is generated by plot.py at 2019-01-21 19:35:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 563.47 Mbit/s
95th percentile per-packet one-way delay: 154.792 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 563.47 Mbit/s
95th percentile per-packet one-way delay: 154.792 ms
Loss rate: 0.02%
```

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

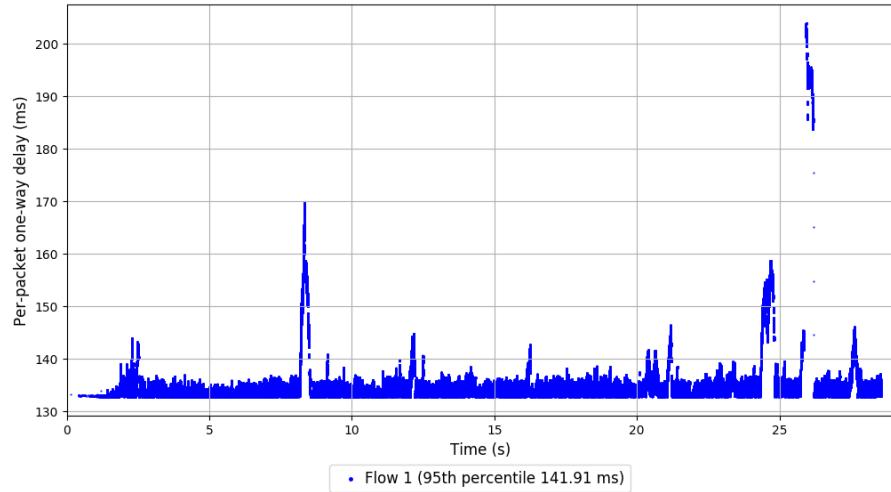
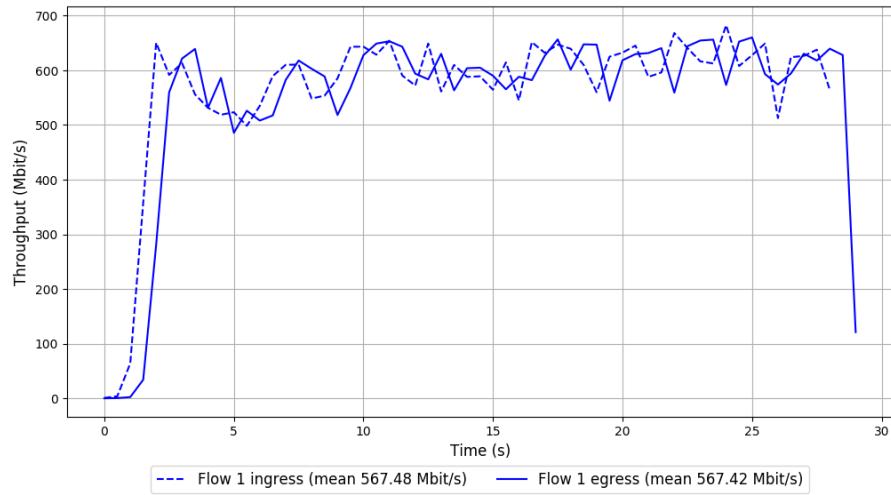


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 17:13:51
End at: 2019-01-21 17:14:21
Local clock offset: -0.164 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-01-21 19:35:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.42 Mbit/s
95th percentile per-packet one-way delay: 141.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 567.42 Mbit/s
95th percentile per-packet one-way delay: 141.915 ms
Loss rate: 0.00%
```

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

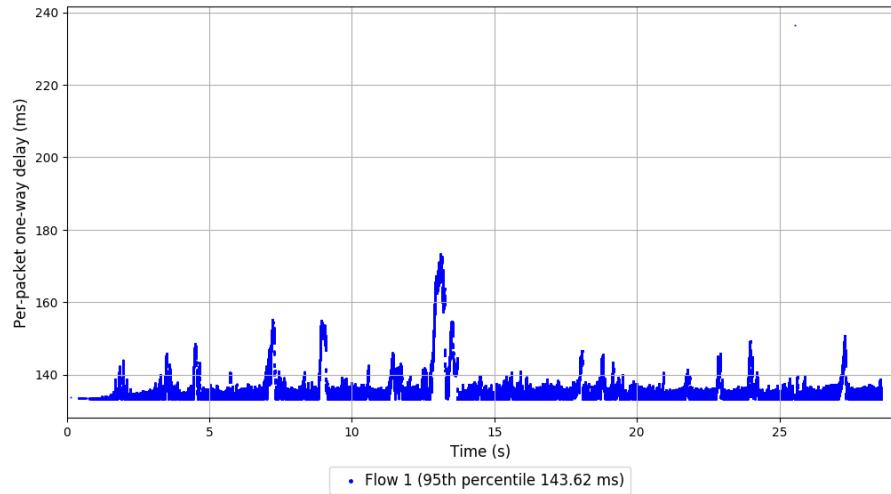
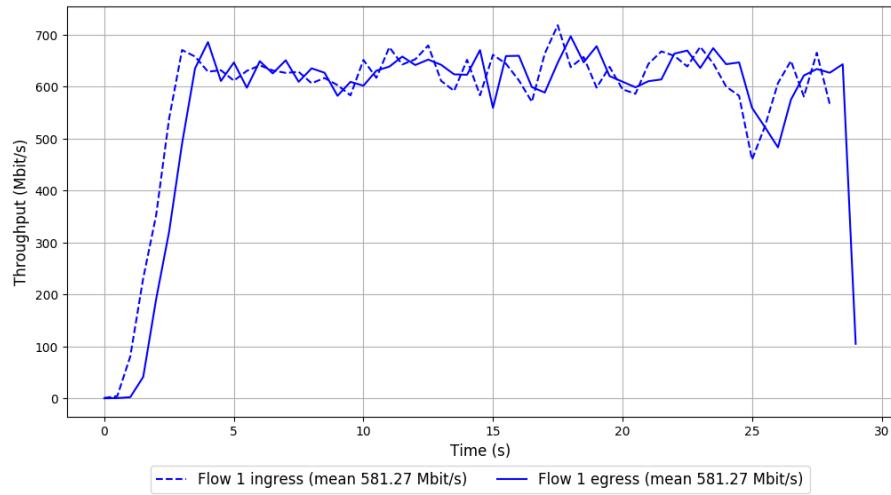


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 17:46:58
End at: 2019-01-21 17:47:28
Local clock offset: -0.176 ms
Remote clock offset: 0.337 ms

# Below is generated by plot.py at 2019-01-21 19:39:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 581.27 Mbit/s
95th percentile per-packet one-way delay: 143.619 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 581.27 Mbit/s
95th percentile per-packet one-way delay: 143.619 ms
Loss rate: 0.00%
```

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

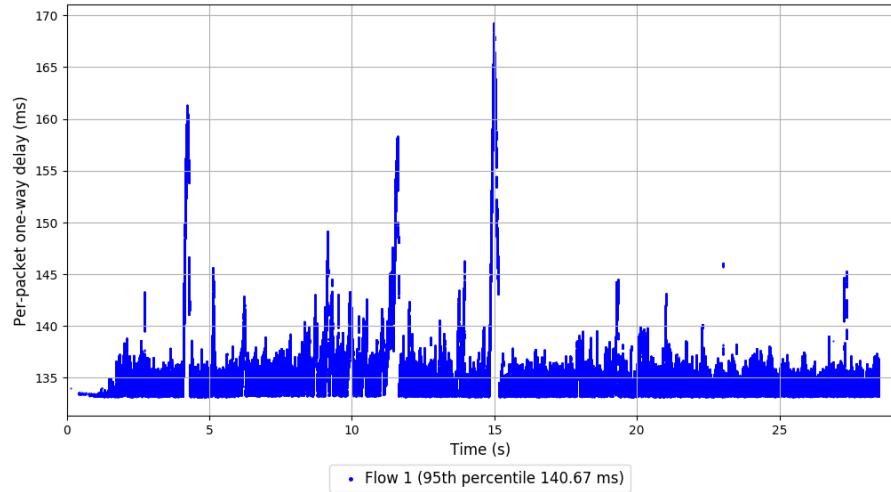
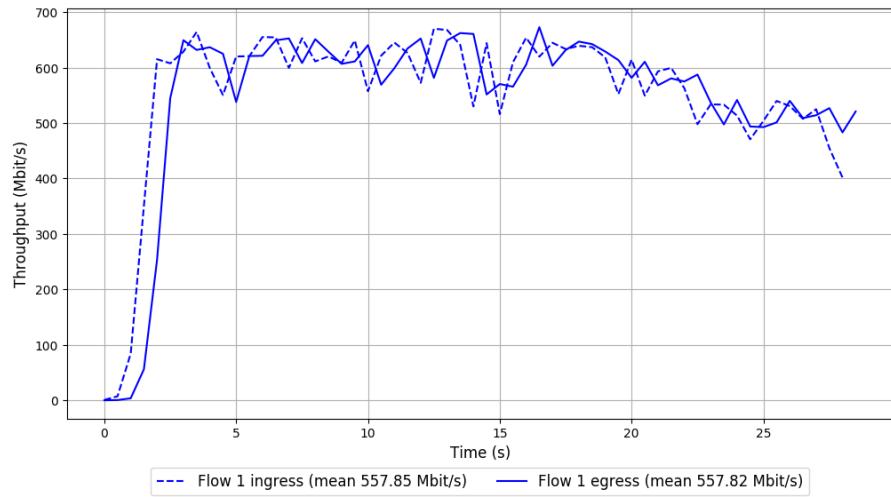


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 18:19:12
End at: 2019-01-21 18:19:42
Local clock offset: -0.236 ms
Remote clock offset: 0.319 ms

# Below is generated by plot.py at 2019-01-21 19:39:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.82 Mbit/s
95th percentile per-packet one-way delay: 140.671 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 557.82 Mbit/s
95th percentile per-packet one-way delay: 140.671 ms
Loss rate: 0.00%
```

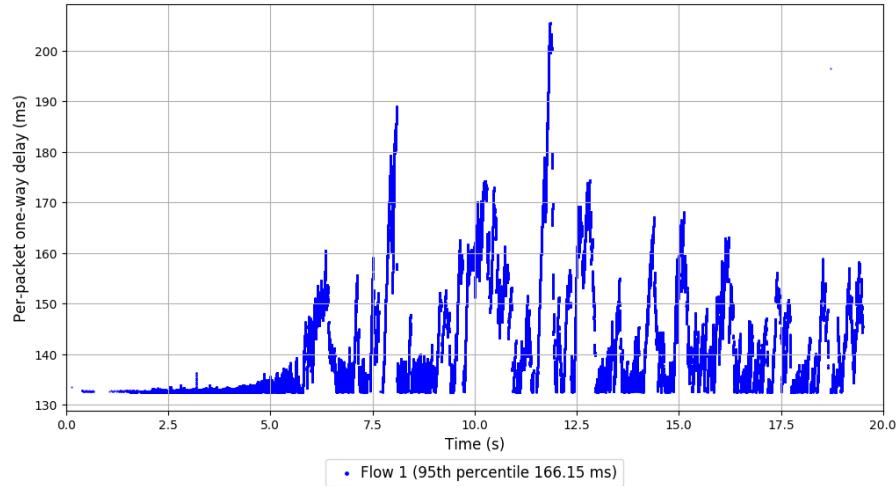
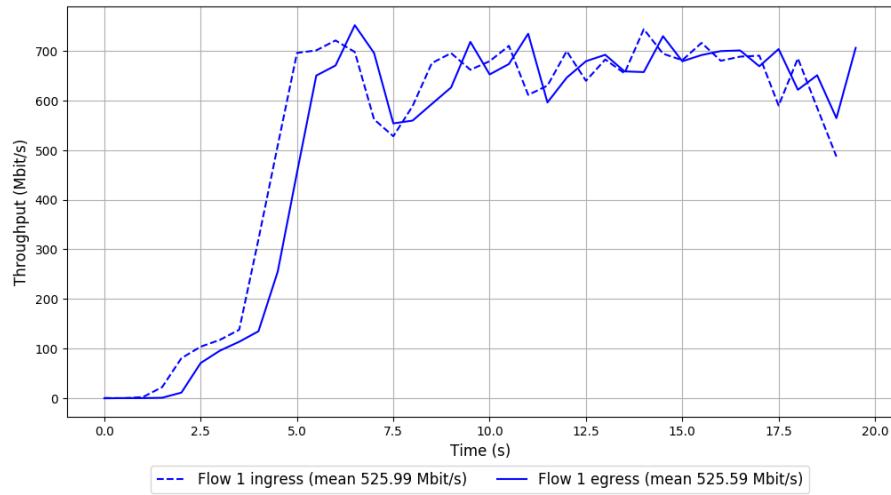
### Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-21 15:59:17  
End at: 2019-01-21 15:59:47  
Local clock offset: -0.226 ms  
Remote clock offset: 0.065 ms

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

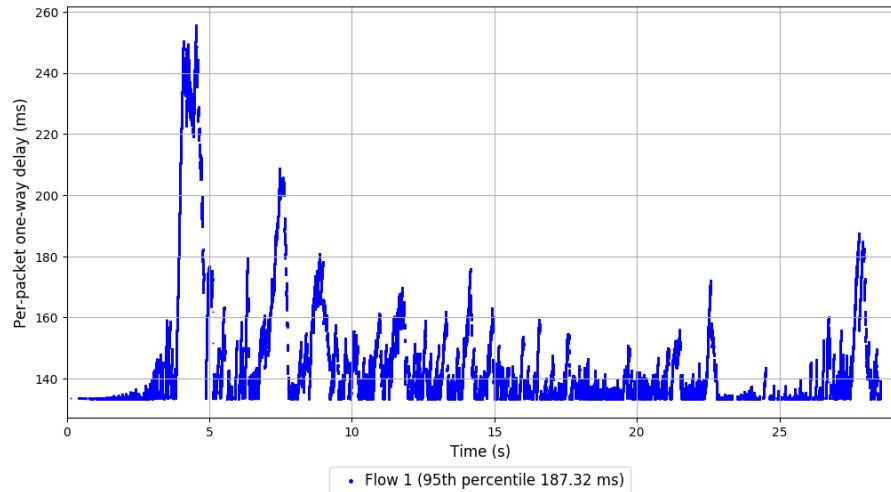
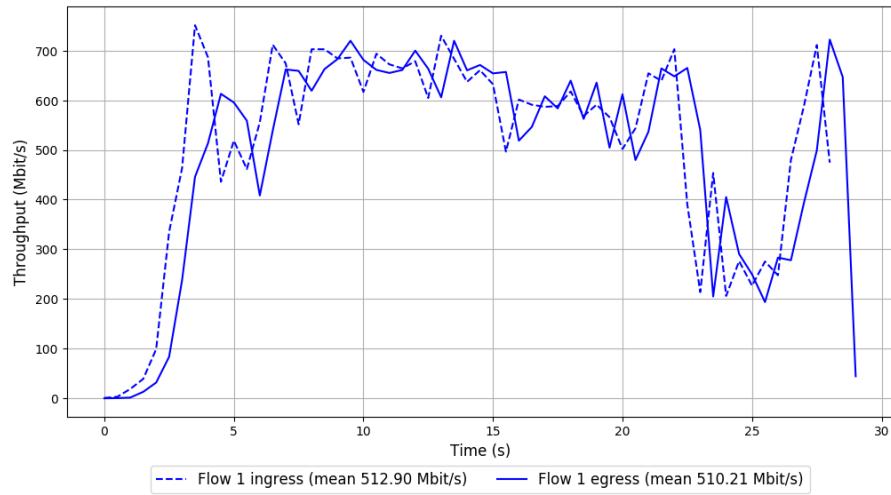


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 16:32:06
End at: 2019-01-21 16:32:36
Local clock offset: -0.435 ms
Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-01-21 19:41:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 510.21 Mbit/s
95th percentile per-packet one-way delay: 187.323 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 510.21 Mbit/s
95th percentile per-packet one-way delay: 187.323 ms
Loss rate: 0.52%
```

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

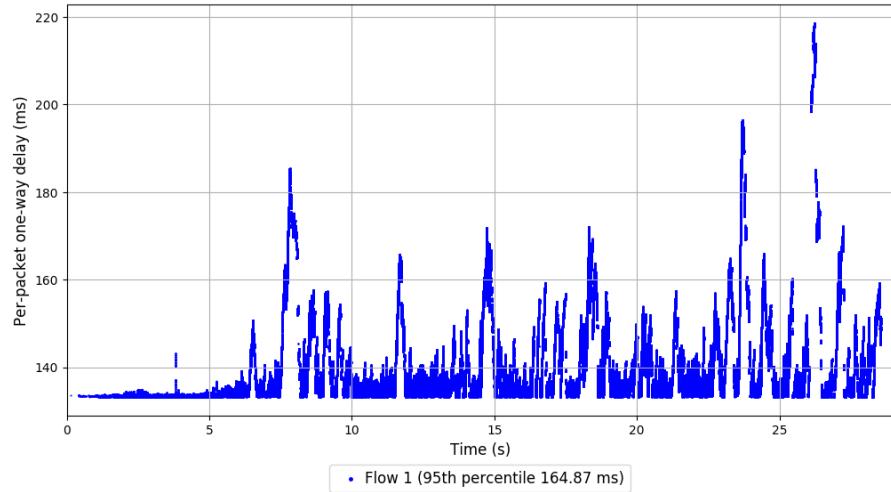
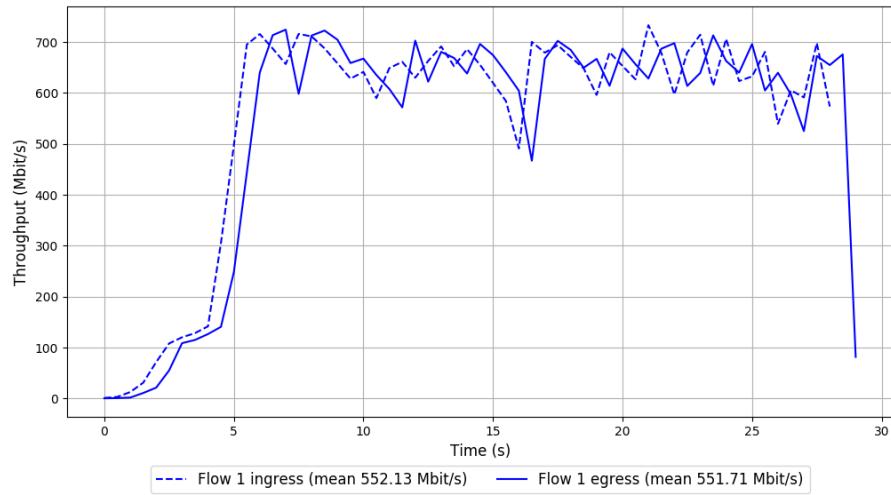


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 17:05:36
End at: 2019-01-21 17:06:06
Local clock offset: -0.565 ms
Remote clock offset: 0.425 ms

# Below is generated by plot.py at 2019-01-21 19:46:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 551.71 Mbit/s
95th percentile per-packet one-way delay: 164.865 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 551.71 Mbit/s
95th percentile per-packet one-way delay: 164.865 ms
Loss rate: 0.07%
```

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

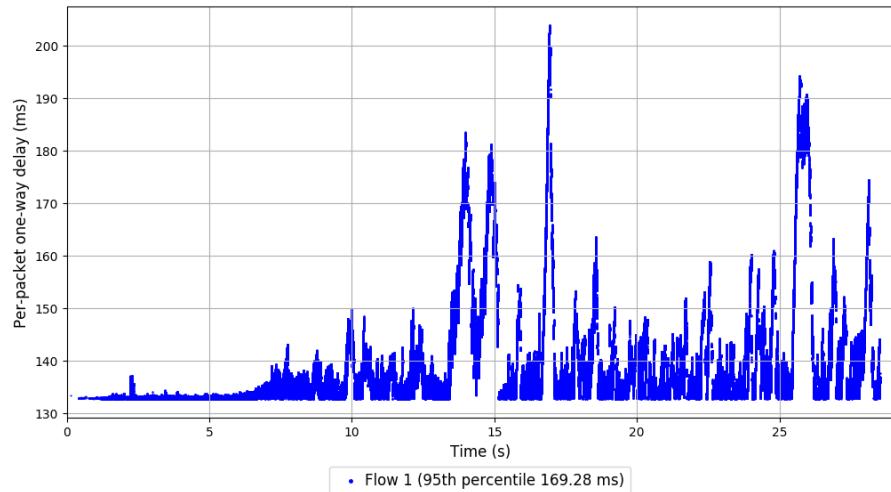
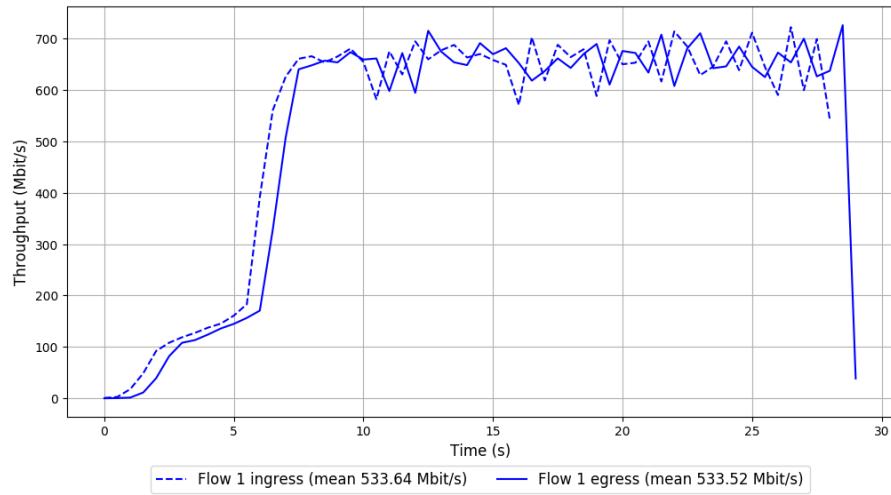


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 17:39:08
End at: 2019-01-21 17:39:38
Local clock offset: -0.378 ms
Remote clock offset: 0.188 ms

# Below is generated by plot.py at 2019-01-21 19:46:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.52 Mbit/s
95th percentile per-packet one-way delay: 169.284 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 533.52 Mbit/s
95th percentile per-packet one-way delay: 169.284 ms
Loss rate: 0.01%
```

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

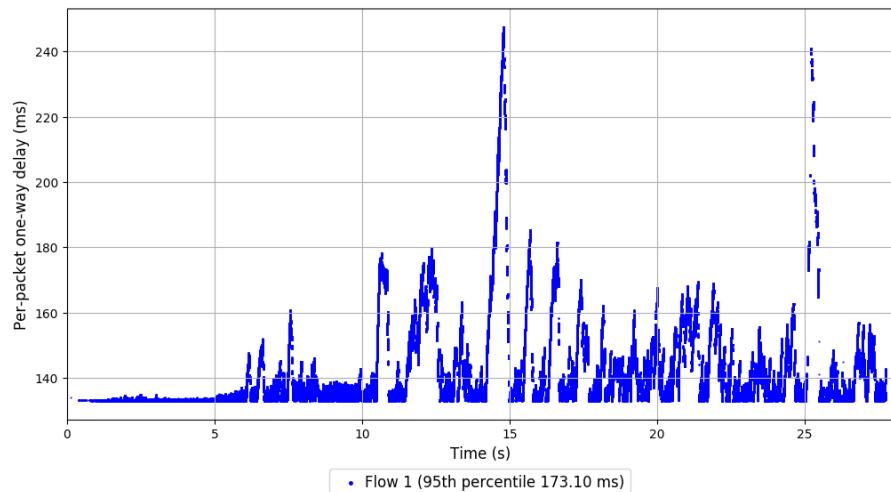
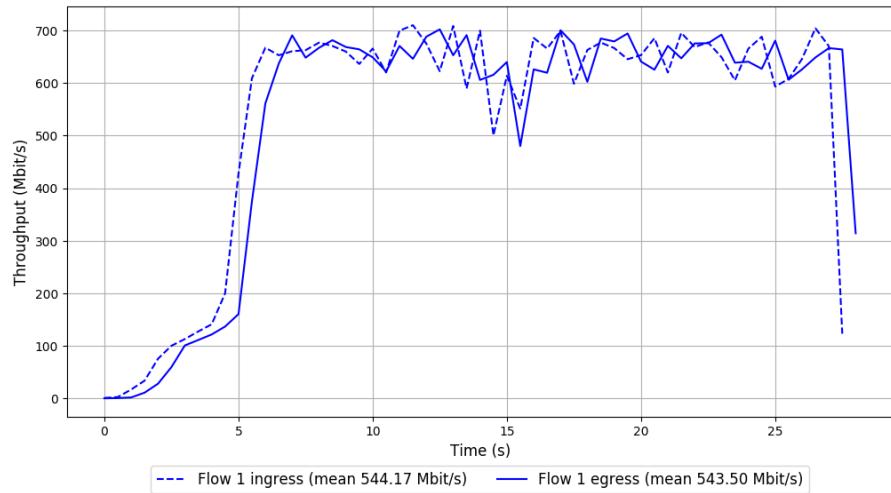


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 18:11:26
End at: 2019-01-21 18:11:56
Local clock offset: -0.213 ms
Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2019-01-21 19:47:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 543.50 Mbit/s
95th percentile per-packet one-way delay: 173.102 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 543.50 Mbit/s
95th percentile per-packet one-way delay: 173.102 ms
Loss rate: 0.12%
```

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

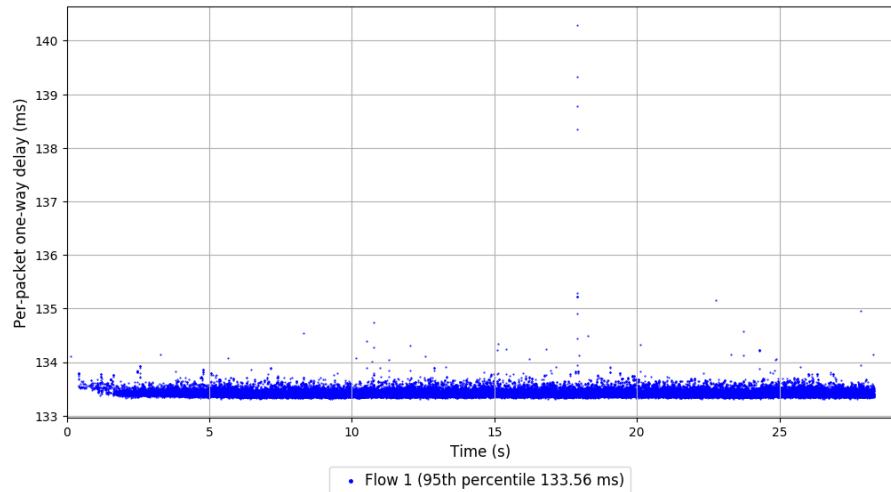
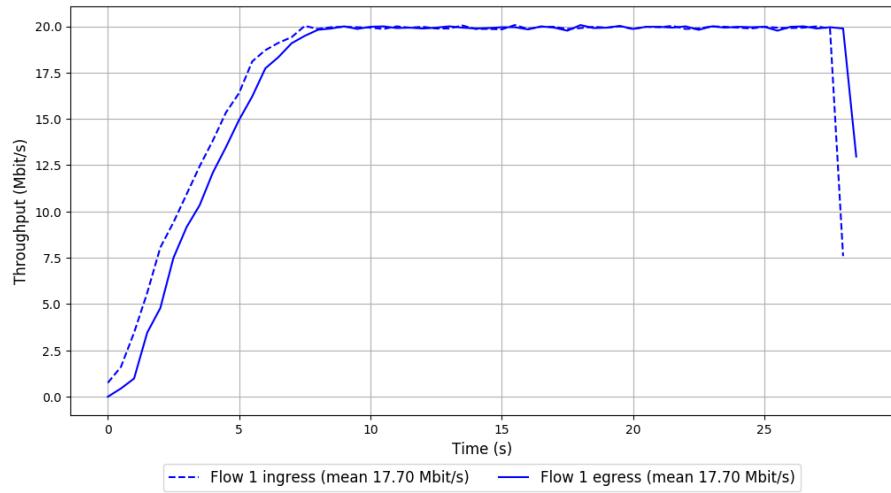


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 16:06:02
End at: 2019-01-21 16:06:32
Local clock offset: -0.527 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-01-21 19:47:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.70 Mbit/s
95th percentile per-packet one-way delay: 133.565 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 17.70 Mbit/s
95th percentile per-packet one-way delay: 133.565 ms
Loss rate: 0.00%
```

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

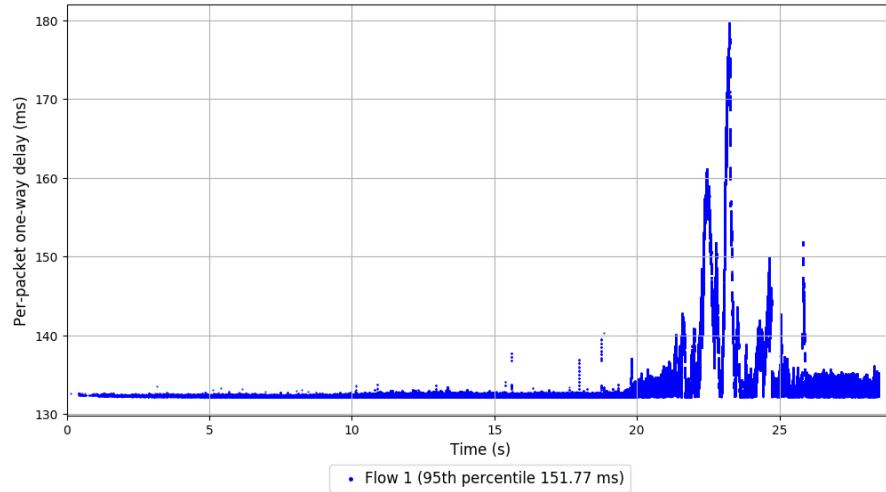
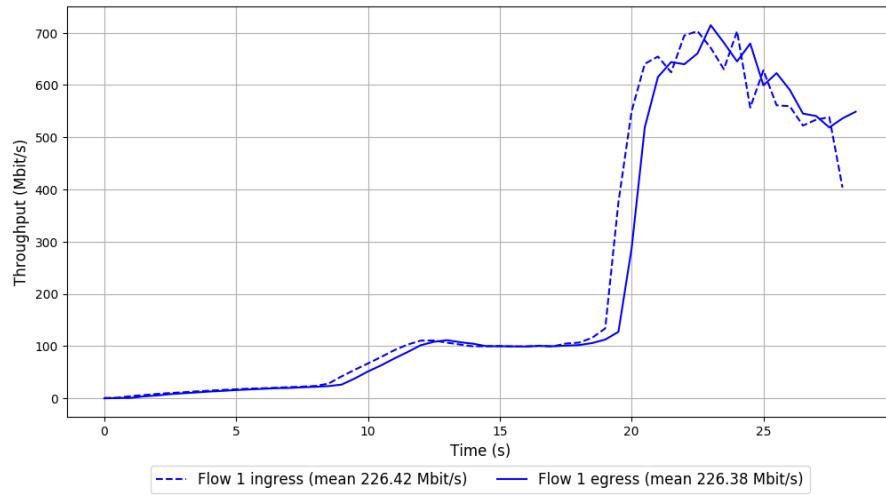


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 16:38:59
End at: 2019-01-21 16:39:29
Local clock offset: 0.161 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-01-21 19:47:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.38 Mbit/s
95th percentile per-packet one-way delay: 151.774 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 226.38 Mbit/s
95th percentile per-packet one-way delay: 151.774 ms
Loss rate: 0.01%
```

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

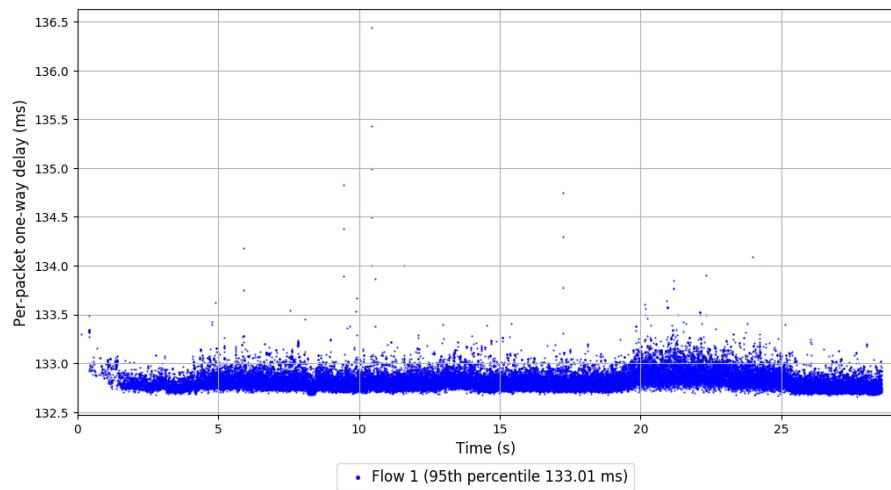
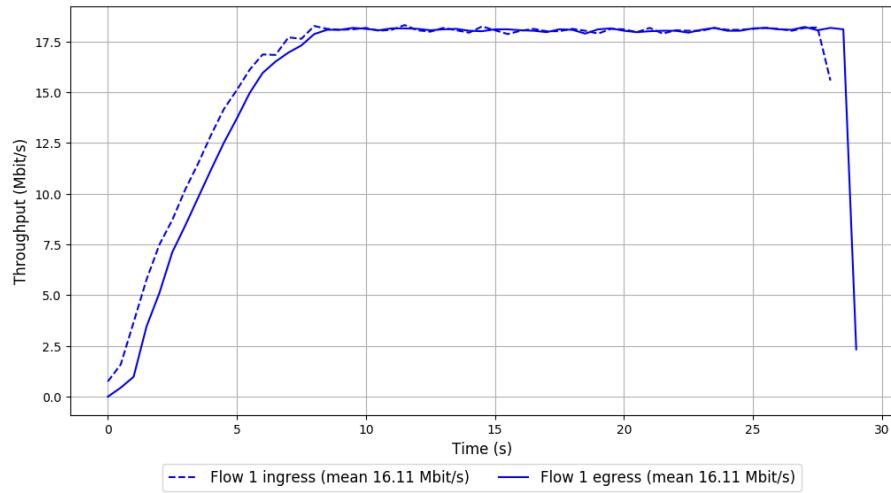


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 17:12:39
End at: 2019-01-21 17:13:09
Local clock offset: -0.442 ms
Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2019-01-21 19:47:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.11 Mbit/s
95th percentile per-packet one-way delay: 133.012 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.11 Mbit/s
95th percentile per-packet one-way delay: 133.012 ms
Loss rate: 0.00%
```

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

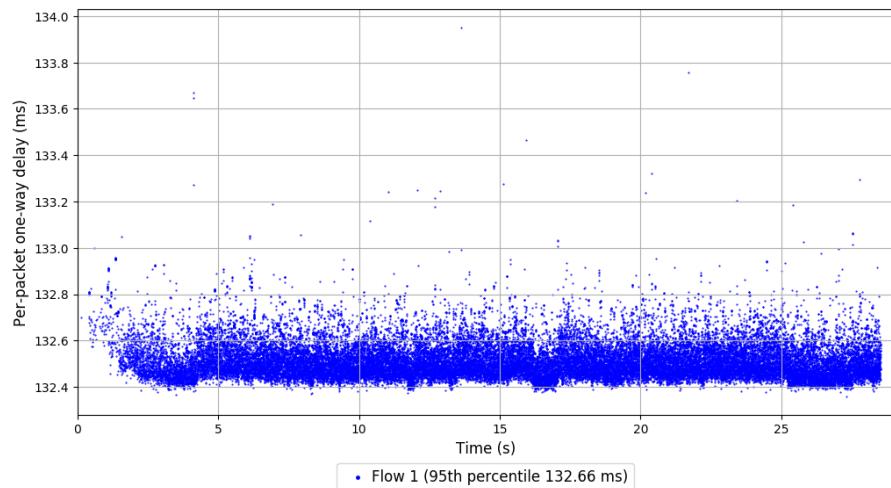
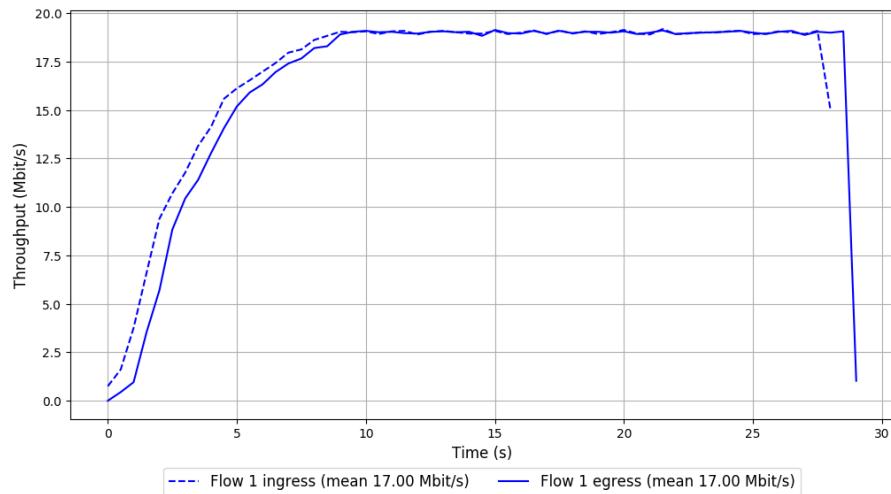


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 17:45:45
End at: 2019-01-21 17:46:15
Local clock offset: 0.006 ms
Remote clock offset: -0.359 ms

# Below is generated by plot.py at 2019-01-21 19:47:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 132.664 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 132.664 ms
Loss rate: 0.00%
```

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

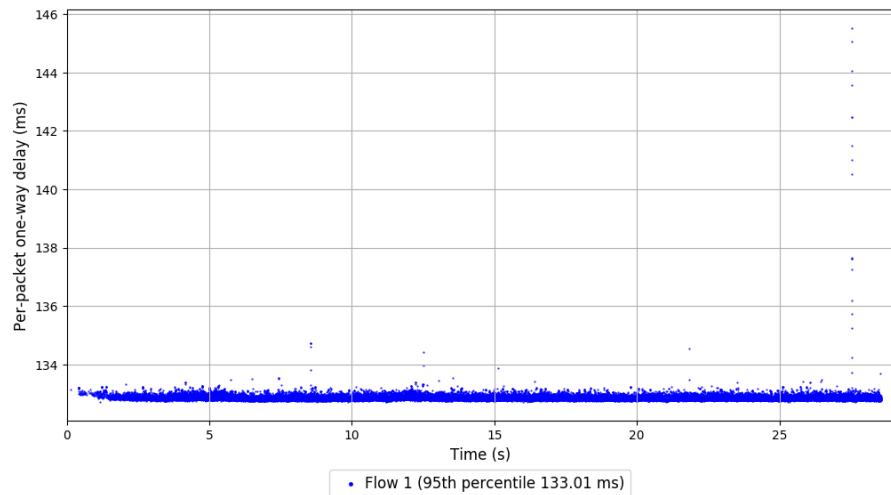
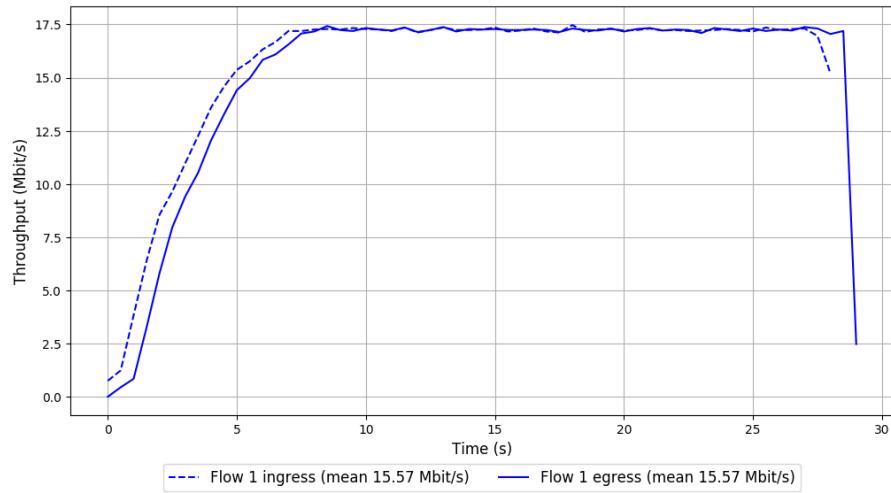


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 18:17:59
End at: 2019-01-21 18:18:29
Local clock offset: -0.171 ms
Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2019-01-21 19:47:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 133.012 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 133.012 ms
Loss rate: 0.00%
```

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

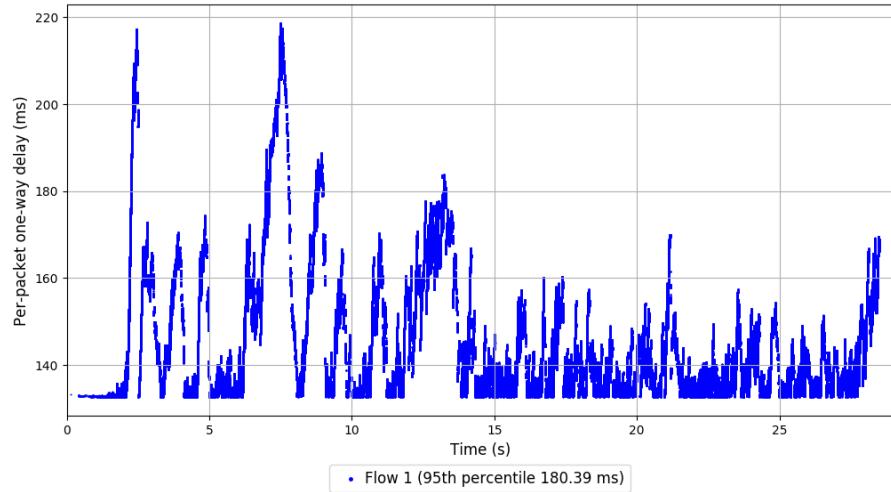
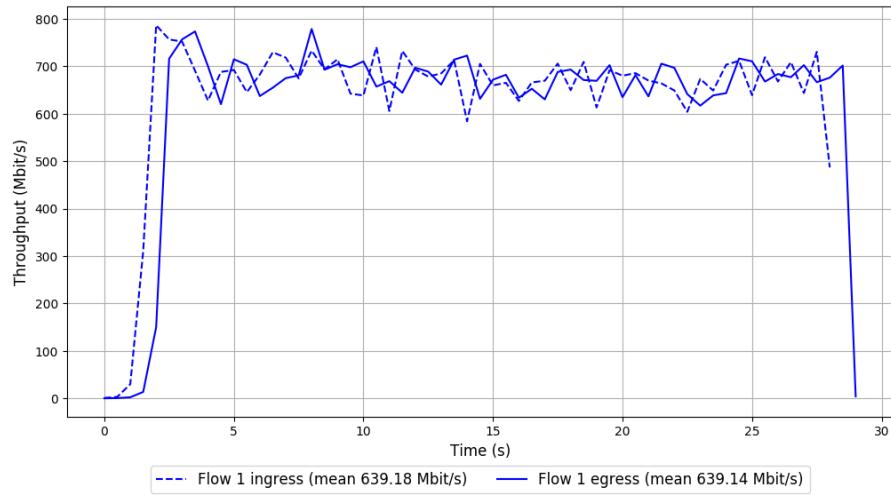


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 16:02:43
End at: 2019-01-21 16:03:13
Local clock offset: 0.011 ms
Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2019-01-21 19:53:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 639.14 Mbit/s
95th percentile per-packet one-way delay: 180.387 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 639.14 Mbit/s
95th percentile per-packet one-way delay: 180.387 ms
Loss rate: 0.07%
```

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

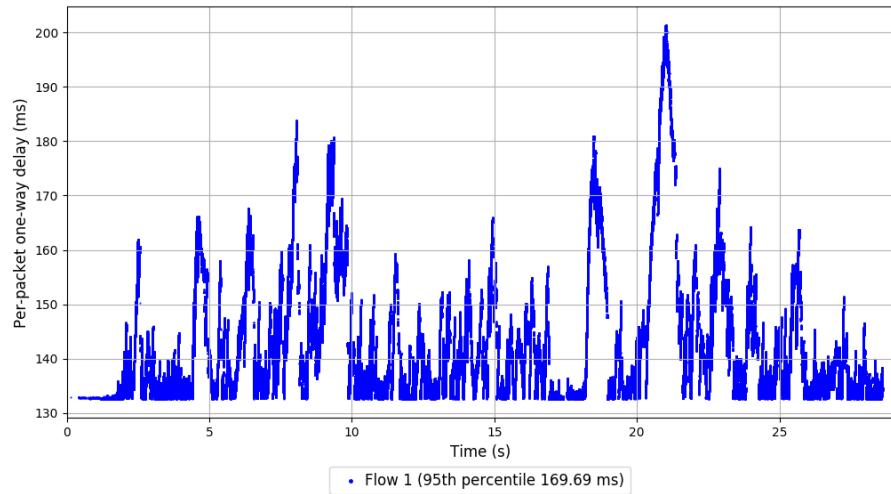
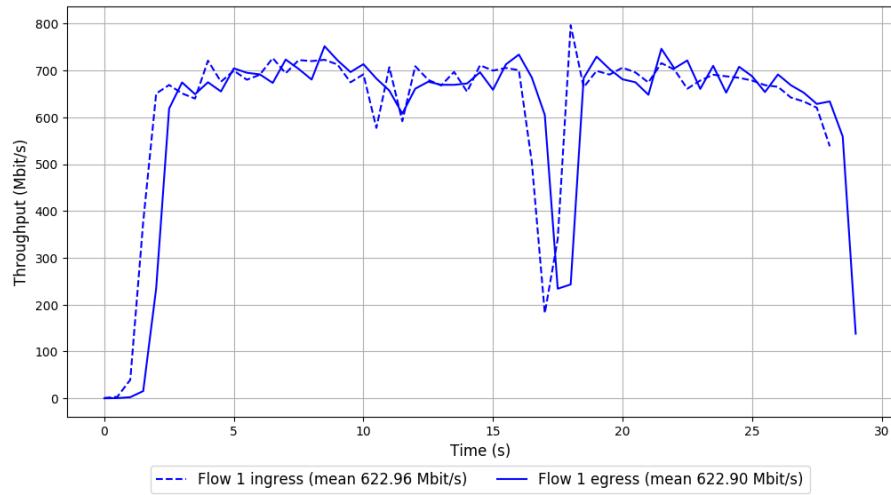


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 16:35:32
End at: 2019-01-21 16:36:02
Local clock offset: 0.437 ms
Remote clock offset: 0.122 ms

# Below is generated by plot.py at 2019-01-21 19:54:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 622.90 Mbit/s
95th percentile per-packet one-way delay: 169.691 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 622.90 Mbit/s
95th percentile per-packet one-way delay: 169.691 ms
Loss rate: 0.00%
```

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

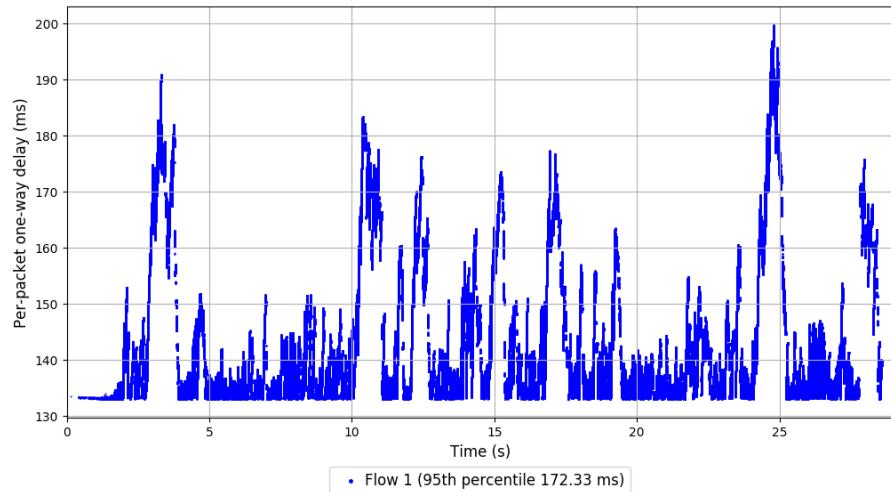
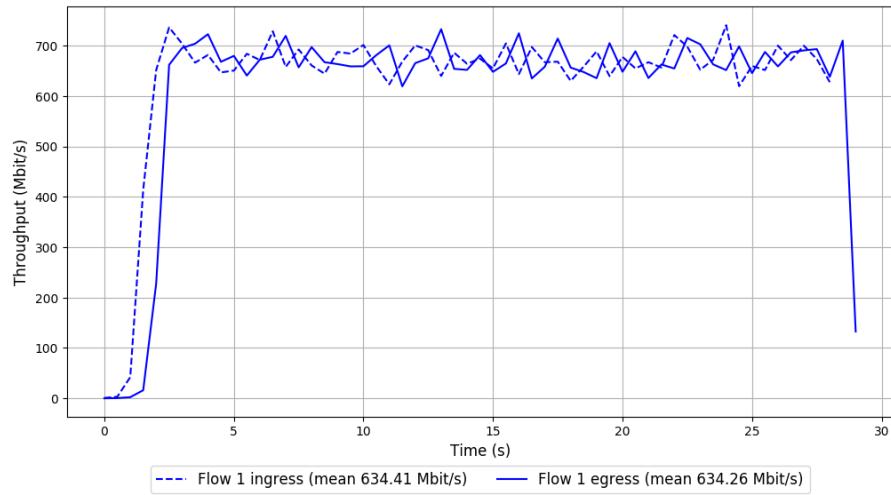


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 17:09:19
End at: 2019-01-21 17:09:49
Local clock offset: -0.409 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2019-01-21 19:54:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 634.26 Mbit/s
95th percentile per-packet one-way delay: 172.331 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 634.26 Mbit/s
95th percentile per-packet one-way delay: 172.331 ms
Loss rate: 0.02%
```

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

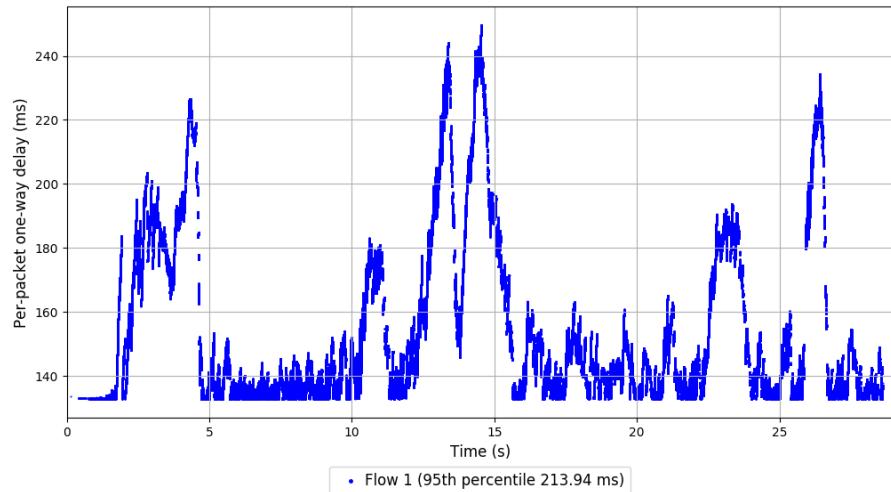
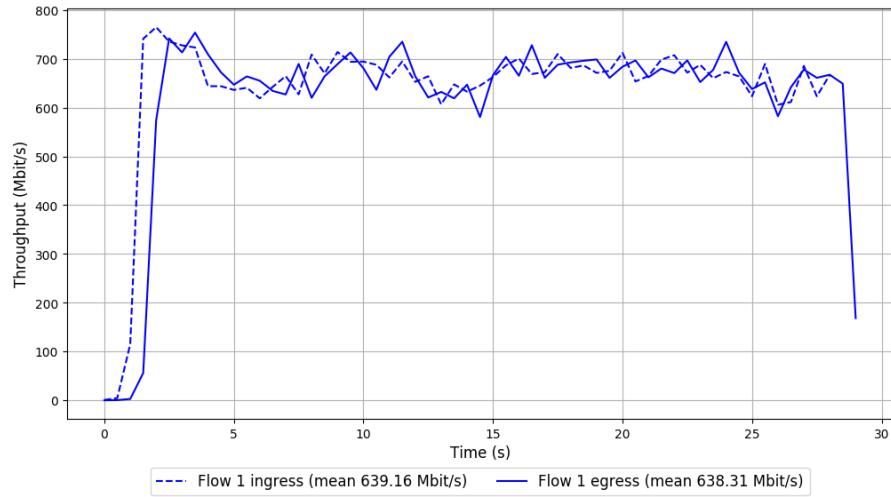


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 17:42:30
End at: 2019-01-21 17:43:00
Local clock offset: -0.216 ms
Remote clock offset: -0.375 ms

# Below is generated by plot.py at 2019-01-21 19:56:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 638.31 Mbit/s
95th percentile per-packet one-way delay: 213.935 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 638.31 Mbit/s
95th percentile per-packet one-way delay: 213.935 ms
Loss rate: 0.13%
```

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

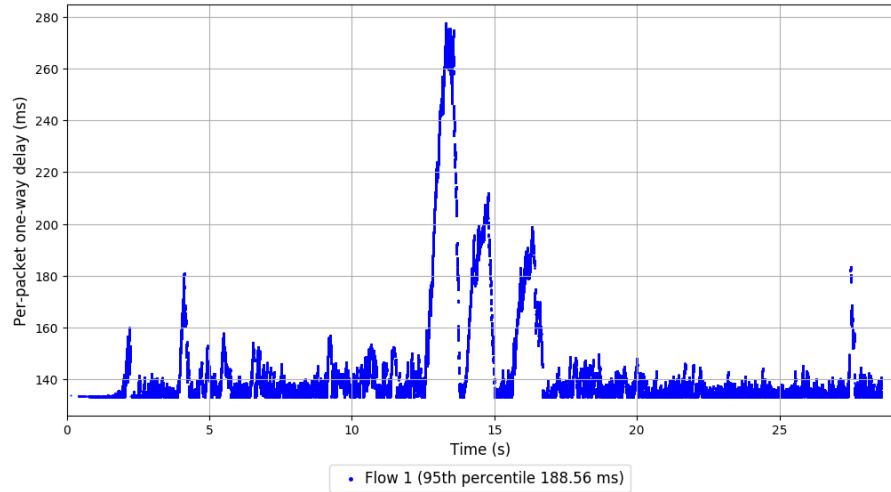
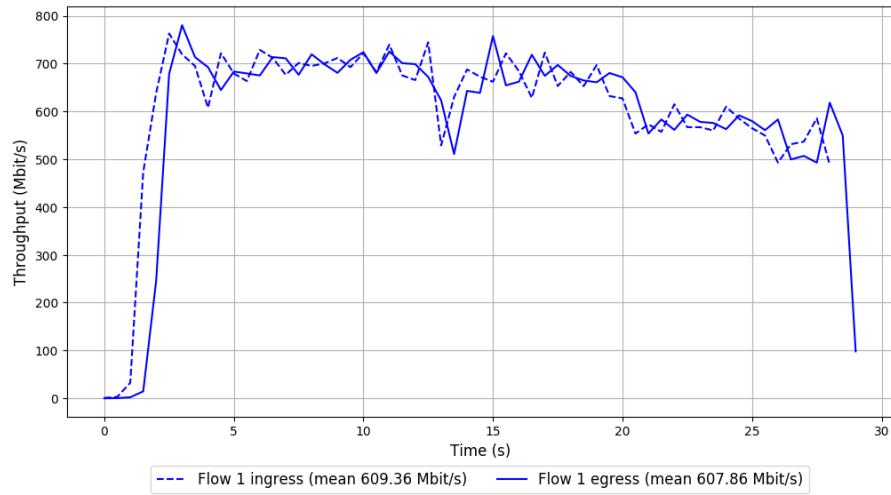


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 18:14:45
End at: 2019-01-21 18:15:15
Local clock offset: -0.253 ms
Remote clock offset: 0.253 ms

# Below is generated by plot.py at 2019-01-21 19:56:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.86 Mbit/s
95th percentile per-packet one-way delay: 188.563 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 607.86 Mbit/s
95th percentile per-packet one-way delay: 188.563 ms
Loss rate: 0.24%
```

Run 5: Report of Indigo-MusesT — Data Link

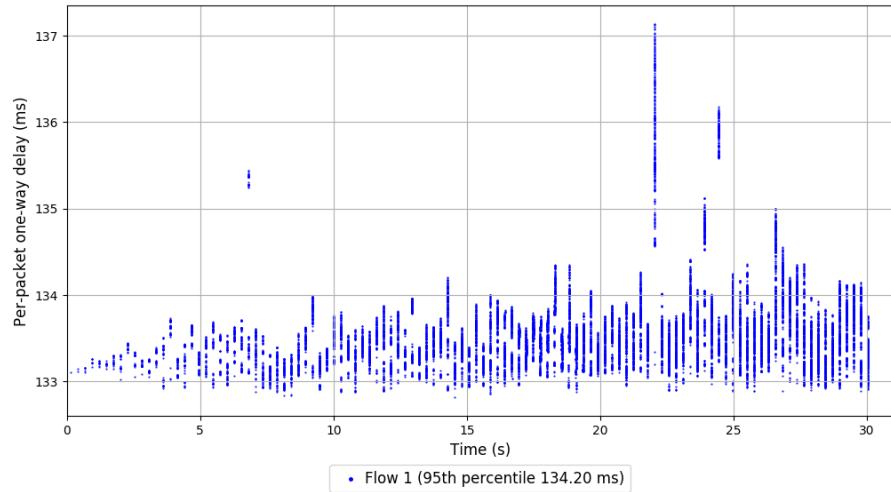
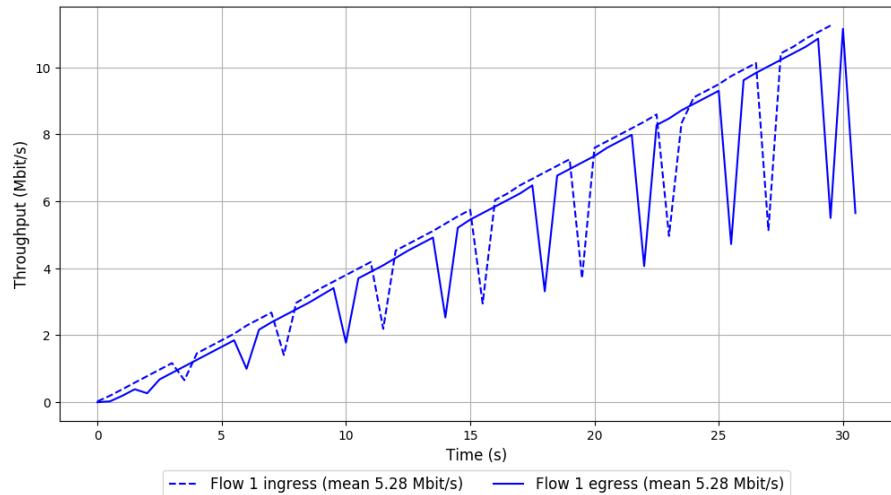


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-21 15:40:47
End at: 2019-01-21 15:41:17
Local clock offset: -0.096 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2019-01-21 19:56:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 134.199 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 134.199 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

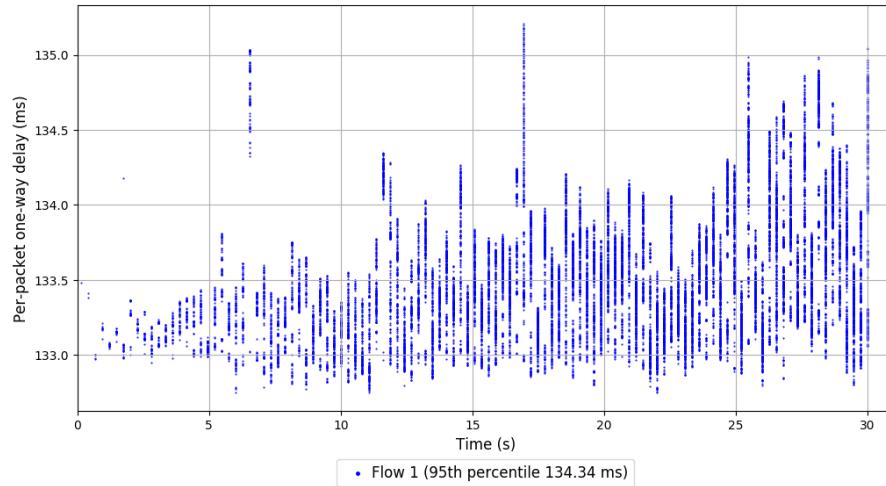
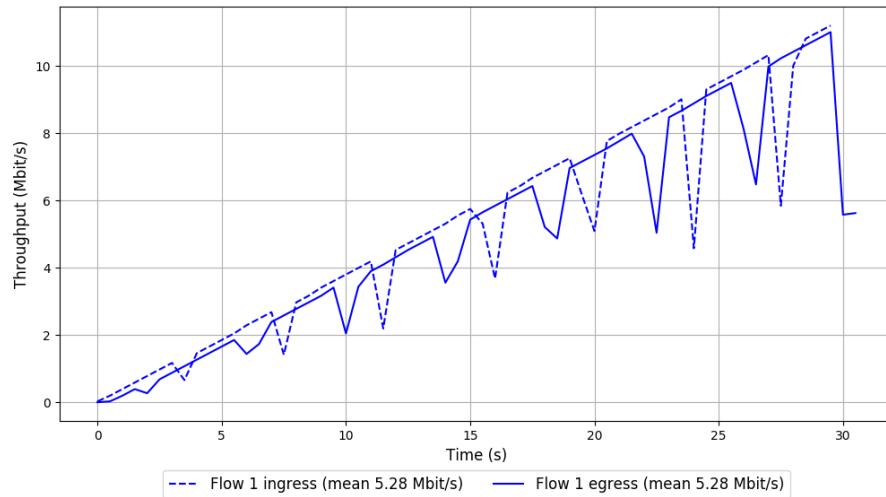


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-21 16:14:10
End at: 2019-01-21 16:14:40
Local clock offset: -0.035 ms
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2019-01-21 19:56:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 134.339 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 134.339 ms
Loss rate: 0.00%
```

## Run 2: Report of LEDBAT — Data Link

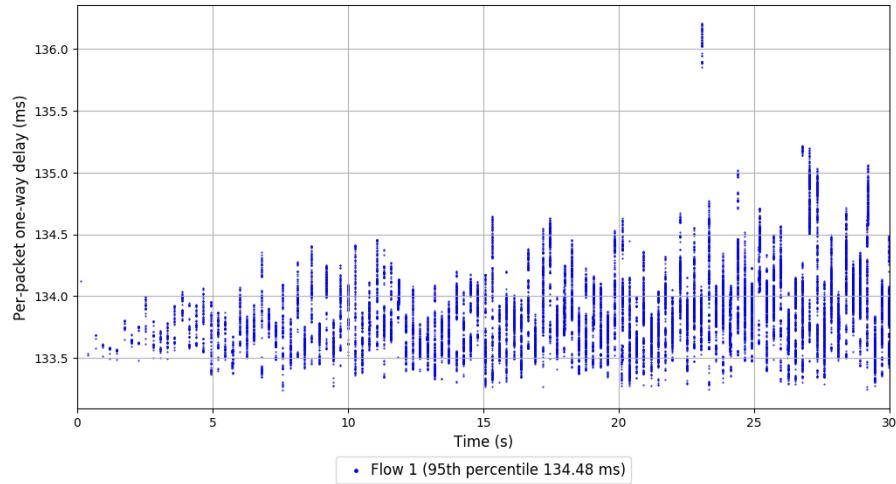
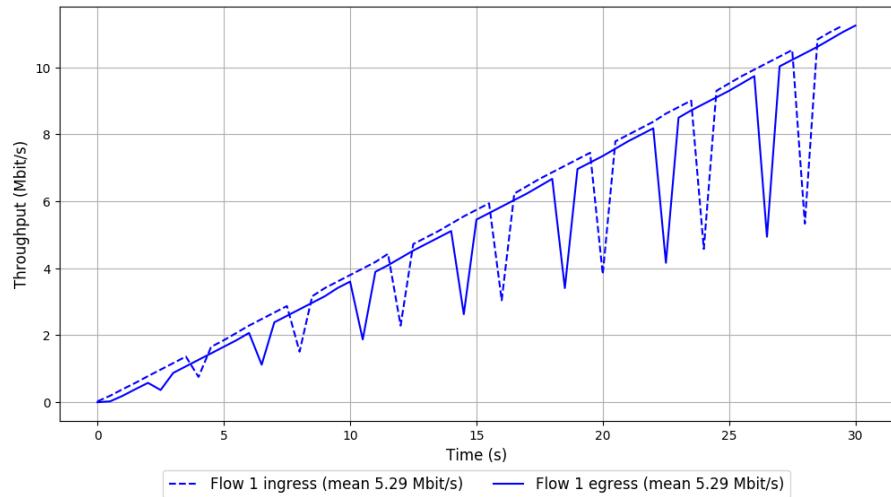


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-21 16:47:09
End at: 2019-01-21 16:47:39
Local clock offset: -0.083 ms
Remote clock offset: 0.4 ms

# Below is generated by plot.py at 2019-01-21 19:56:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 134.480 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 134.480 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

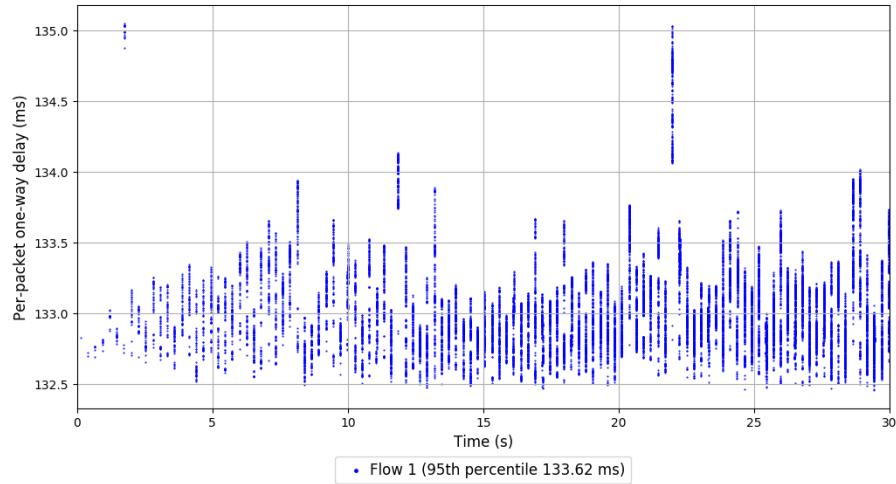
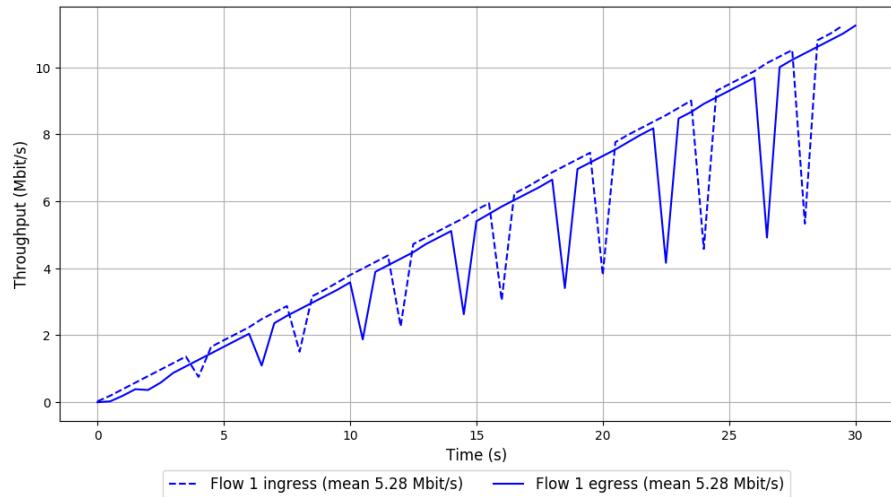


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-21 17:20:04
End at: 2019-01-21 17:20:34
Local clock offset: 0.268 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-01-21 19:56:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 133.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 133.623 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

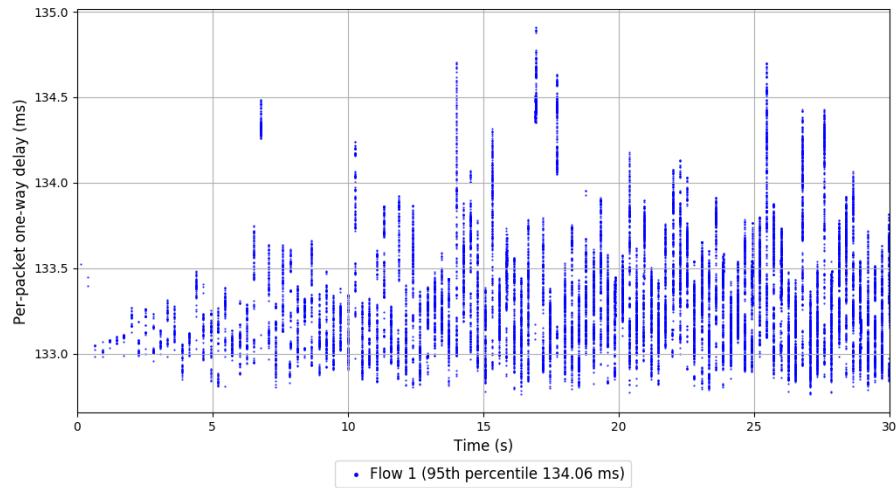
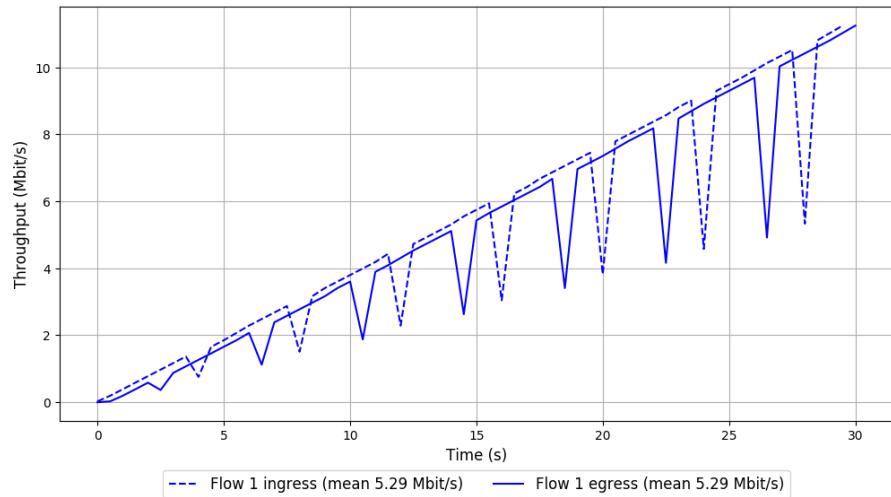


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-21 17:53:18
End at: 2019-01-21 17:53:48
Local clock offset: -0.22 ms
Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2019-01-21 19:56:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 134.057 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 134.057 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

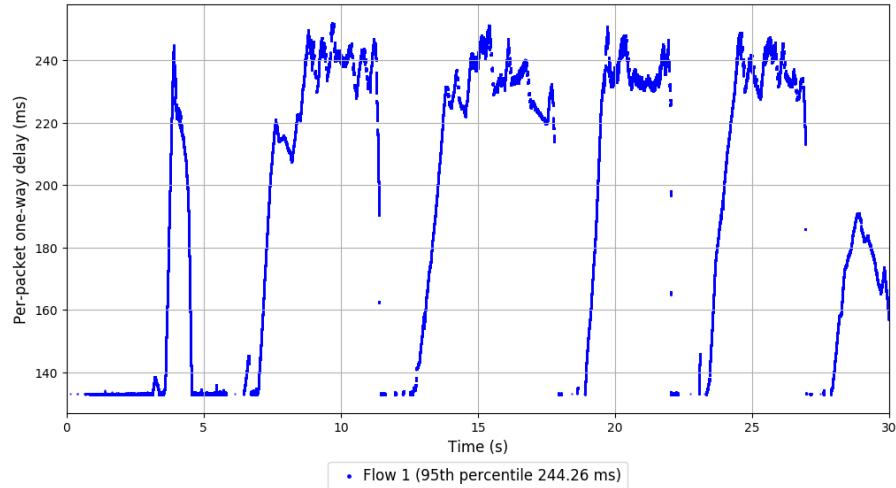
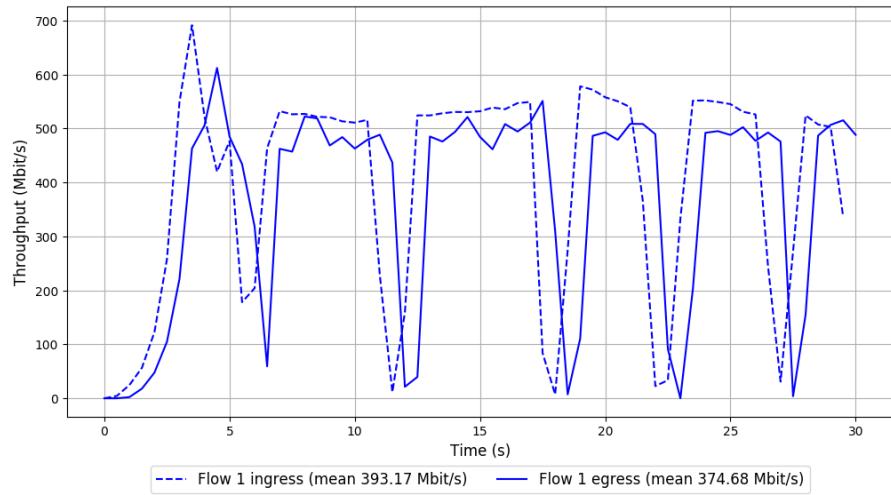


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-21 15:57:31
End at: 2019-01-21 15:58:01
Local clock offset: 0.387 ms
Remote clock offset: 0.428 ms

# Below is generated by plot.py at 2019-01-21 20:06:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 374.68 Mbit/s
95th percentile per-packet one-way delay: 244.262 ms
Loss rate: 4.70%
-- Flow 1:
Average throughput: 374.68 Mbit/s
95th percentile per-packet one-way delay: 244.262 ms
Loss rate: 4.70%
```

## Run 1: Report of PCC-Allegro — Data Link

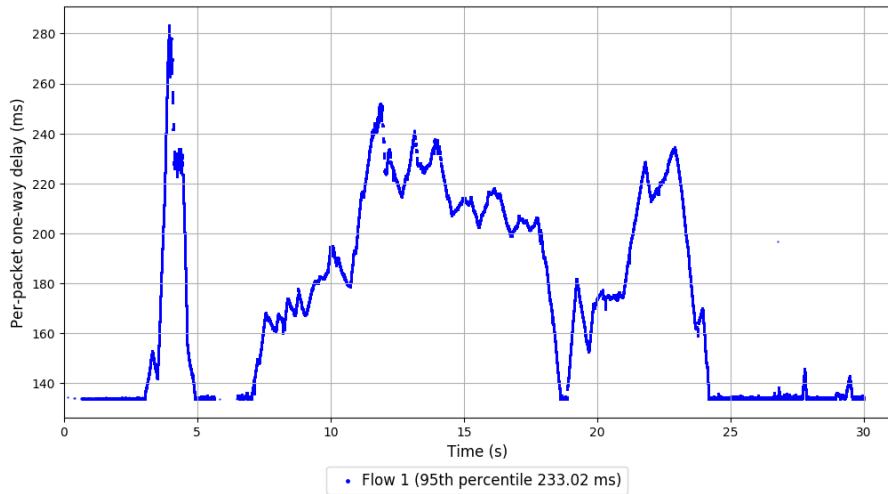
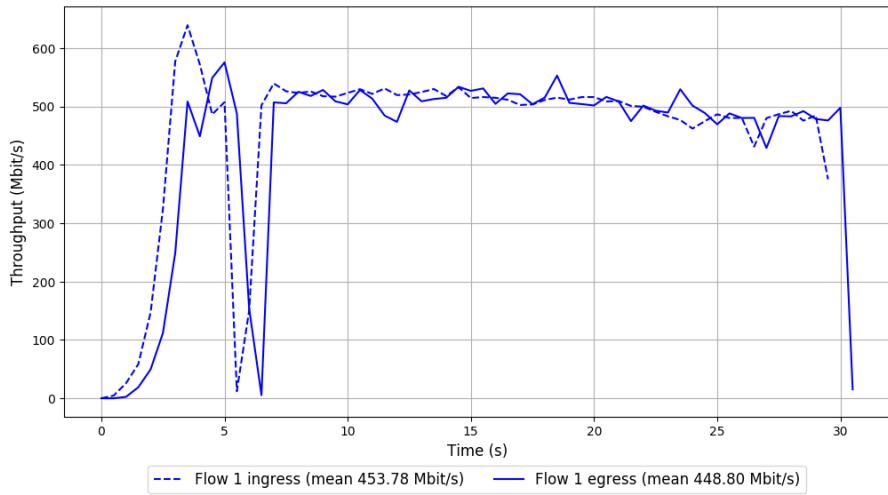


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-21 16:30:21
End at: 2019-01-21 16:30:51
Local clock offset: -0.294 ms
Remote clock offset: 0.096 ms

# Below is generated by plot.py at 2019-01-21 20:10:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 448.80 Mbit/s
95th percentile per-packet one-way delay: 233.017 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 448.80 Mbit/s
95th percentile per-packet one-way delay: 233.017 ms
Loss rate: 1.10%
```

Run 2: Report of PCC-Allegro — Data Link

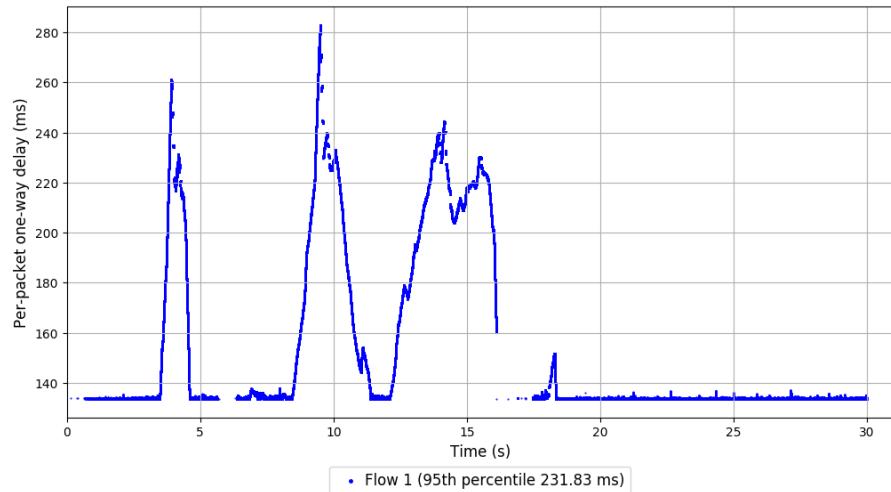
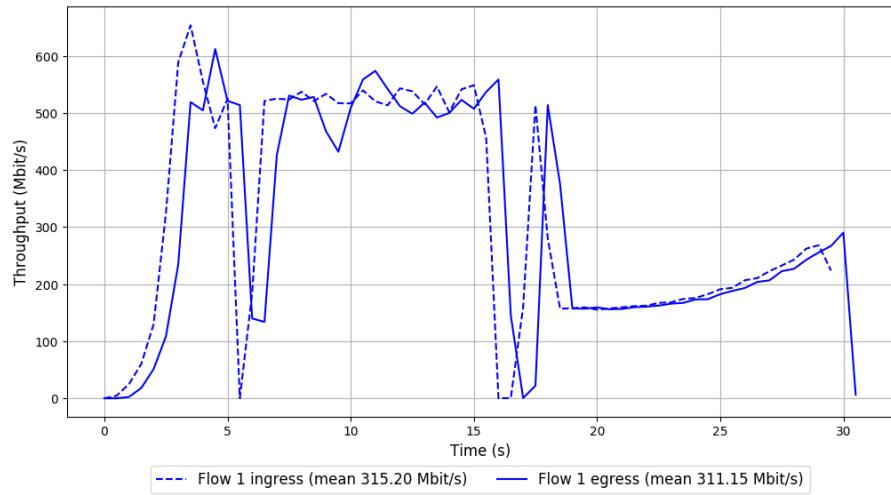


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-21 17:03:46
End at: 2019-01-21 17:04:16
Local clock offset: -0.539 ms
Remote clock offset: 0.392 ms

# Below is generated by plot.py at 2019-01-21 20:10:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 311.15 Mbit/s
95th percentile per-packet one-way delay: 231.826 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 311.15 Mbit/s
95th percentile per-packet one-way delay: 231.826 ms
Loss rate: 1.28%
```

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

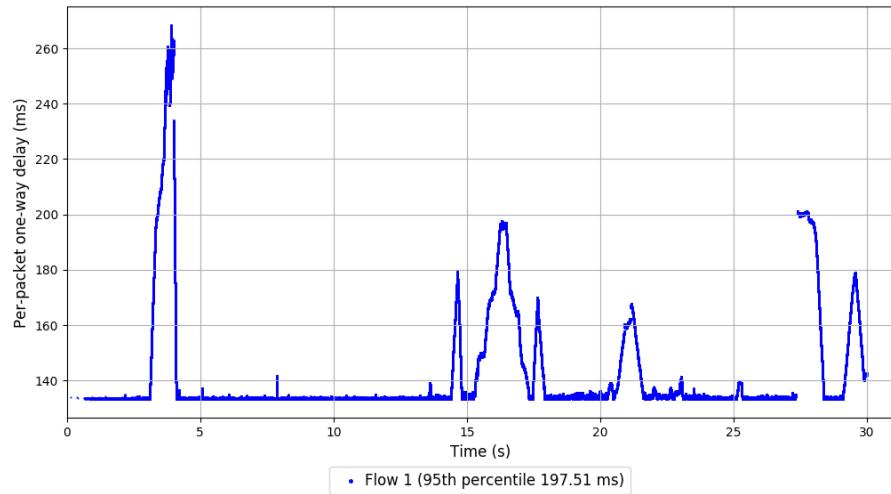
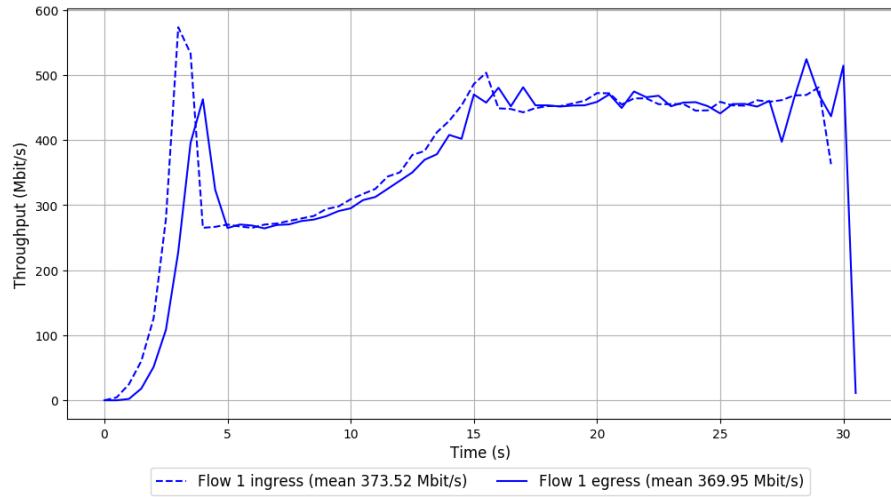


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-21 17:37:17
End at: 2019-01-21 17:37:47
Local clock offset: -0.332 ms
Remote clock offset: 0.144 ms

# Below is generated by plot.py at 2019-01-21 20:11:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.95 Mbit/s
95th percentile per-packet one-way delay: 197.506 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 369.95 Mbit/s
95th percentile per-packet one-way delay: 197.506 ms
Loss rate: 0.95%
```

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

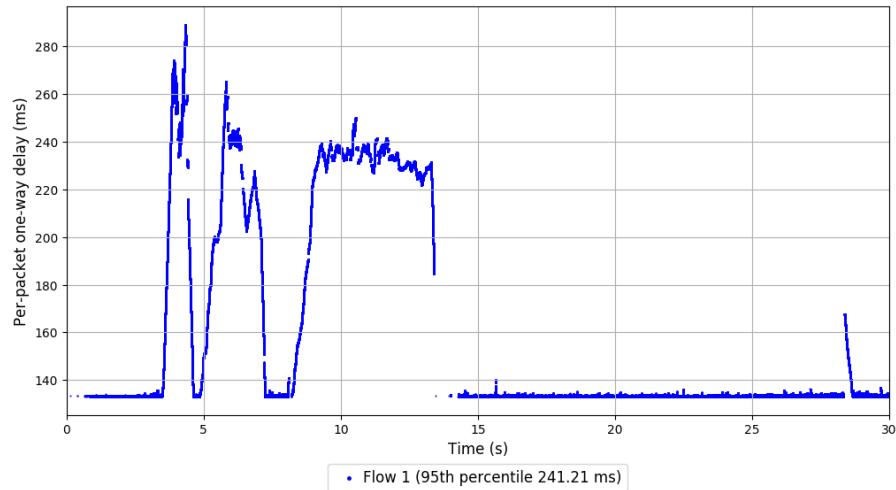
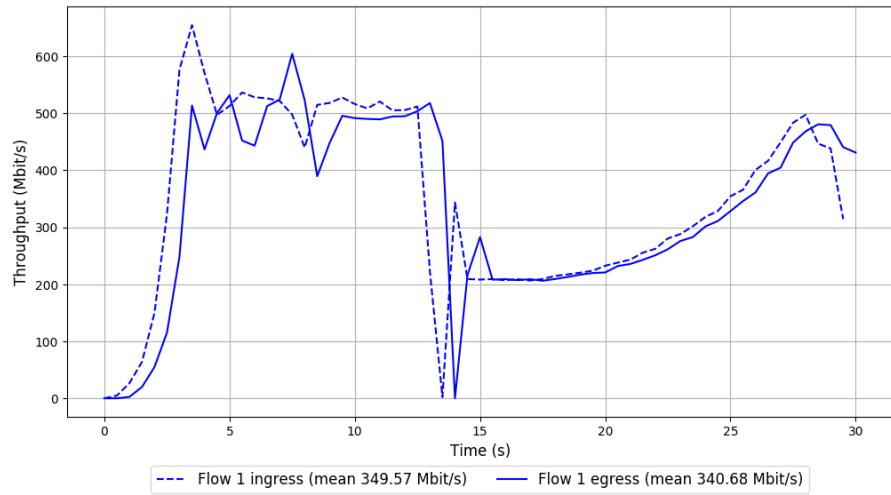


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-21 18:09:44
End at: 2019-01-21 18:10:14
Local clock offset: -0.206 ms
Remote clock offset: 0.079 ms

# Below is generated by plot.py at 2019-01-21 20:11:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.68 Mbit/s
95th percentile per-packet one-way delay: 241.214 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 340.68 Mbit/s
95th percentile per-packet one-way delay: 241.214 ms
Loss rate: 2.54%
```

Run 5: Report of PCC-Allegro — Data Link

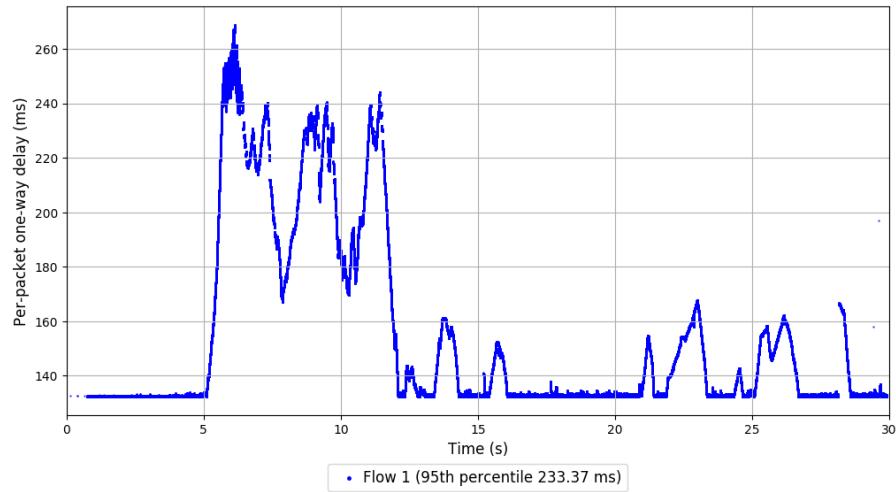
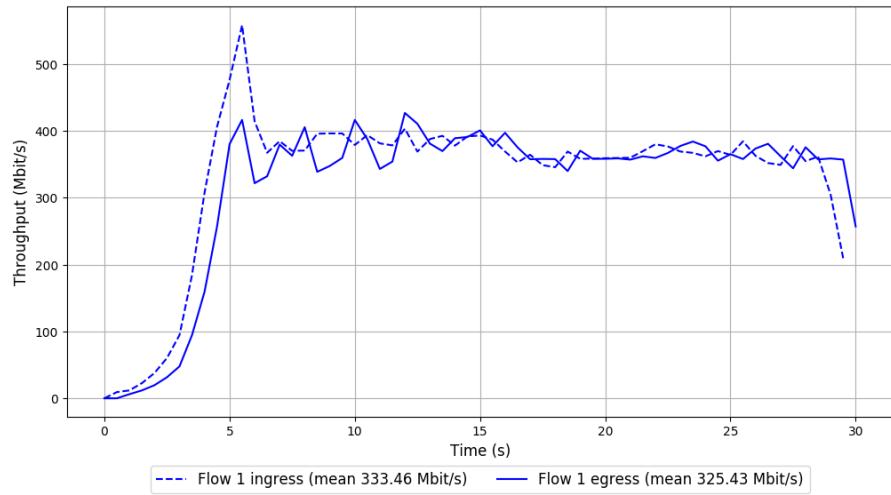


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-21 15:46:22
End at: 2019-01-21 15:46:52
Local clock offset: -0.071 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-01-21 20:11:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.43 Mbit/s
95th percentile per-packet one-way delay: 233.371 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 325.43 Mbit/s
95th percentile per-packet one-way delay: 233.371 ms
Loss rate: 2.41%
```

Run 1: Report of PCC-Expr — Data Link

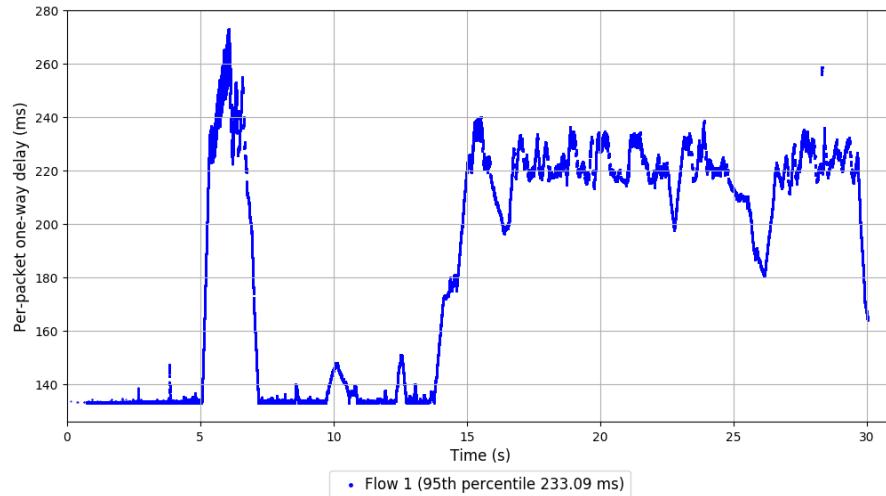
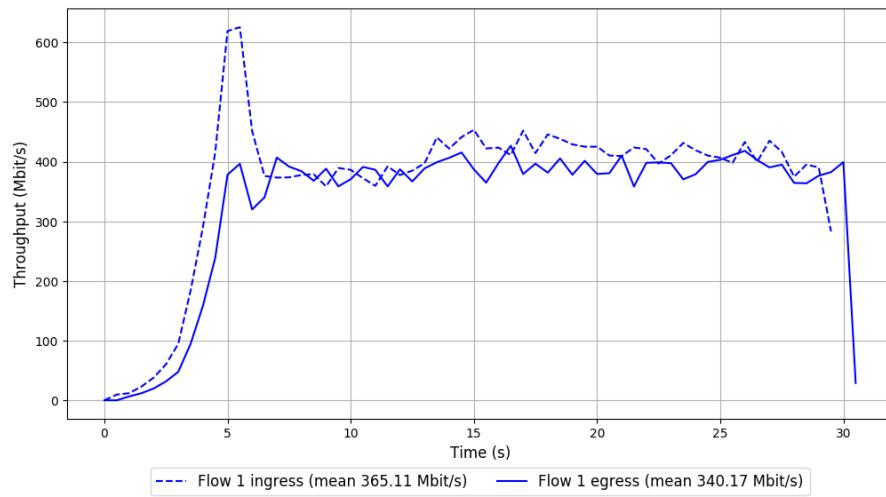


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-21 16:19:49
End at: 2019-01-21 16:20:19
Local clock offset: -0.046 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-01-21 20:13:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.17 Mbit/s
95th percentile per-packet one-way delay: 233.087 ms
Loss rate: 6.83%
-- Flow 1:
Average throughput: 340.17 Mbit/s
95th percentile per-packet one-way delay: 233.087 ms
Loss rate: 6.83%
```

Run 2: Report of PCC-Expr — Data Link

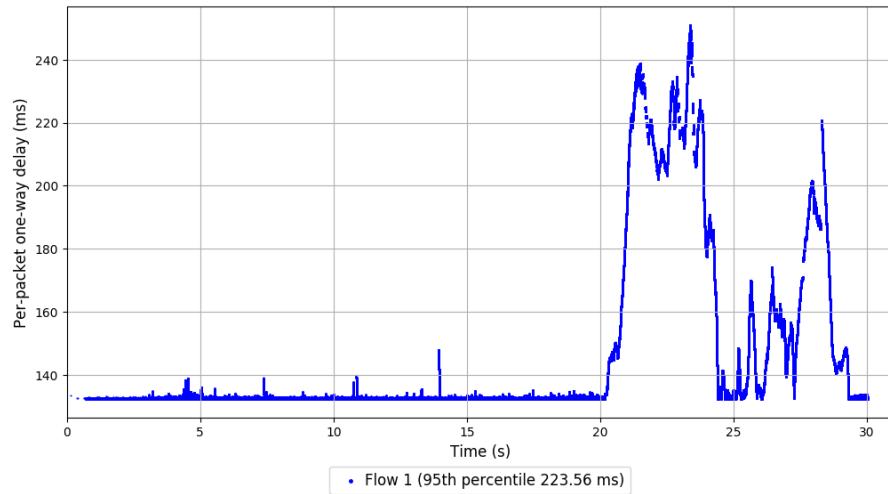
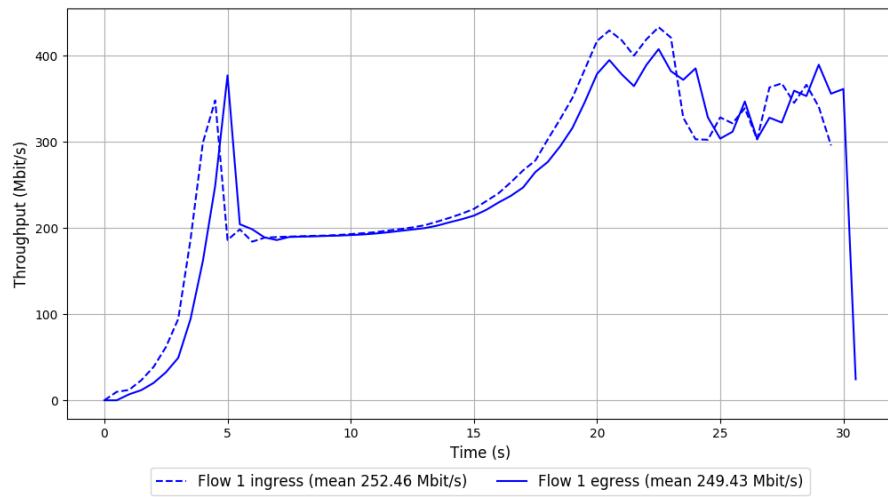


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-21 16:52:12
End at: 2019-01-21 16:52:42
Local clock offset: 0.314 ms
Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2019-01-21 20:13:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.43 Mbit/s
95th percentile per-packet one-way delay: 223.564 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 249.43 Mbit/s
95th percentile per-packet one-way delay: 223.564 ms
Loss rate: 1.20%
```

Run 3: Report of PCC-Expr — Data Link

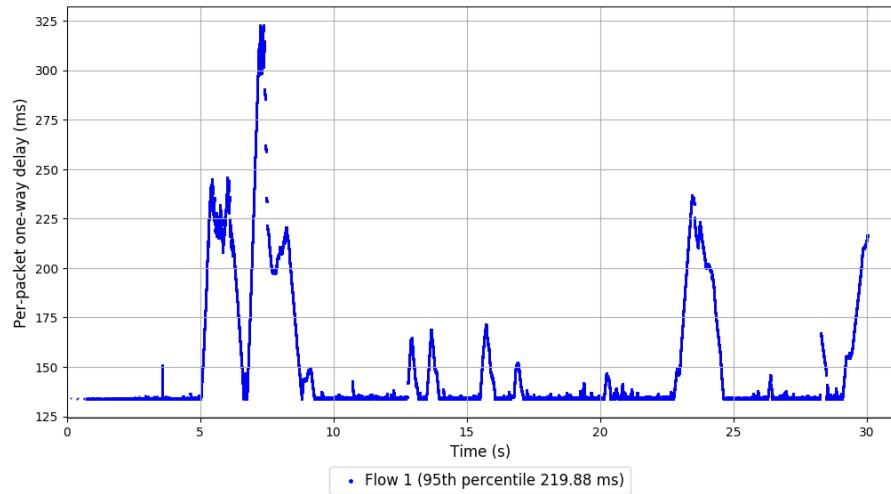
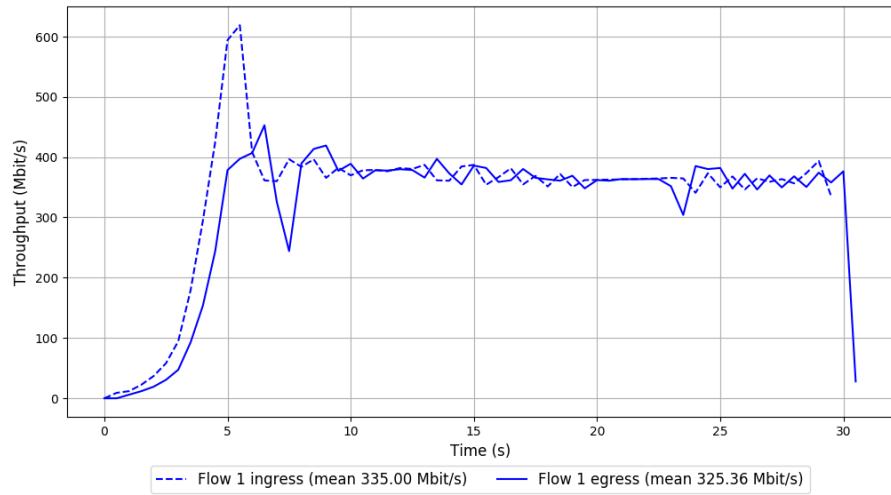


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-21 17:25:55
End at: 2019-01-21 17:26:25
Local clock offset: -0.562 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-01-21 20:20:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.36 Mbit/s
95th percentile per-packet one-way delay: 219.878 ms
Loss rate: 2.88%
-- Flow 1:
Average throughput: 325.36 Mbit/s
95th percentile per-packet one-way delay: 219.878 ms
Loss rate: 2.88%
```

Run 4: Report of PCC-Expr — Data Link

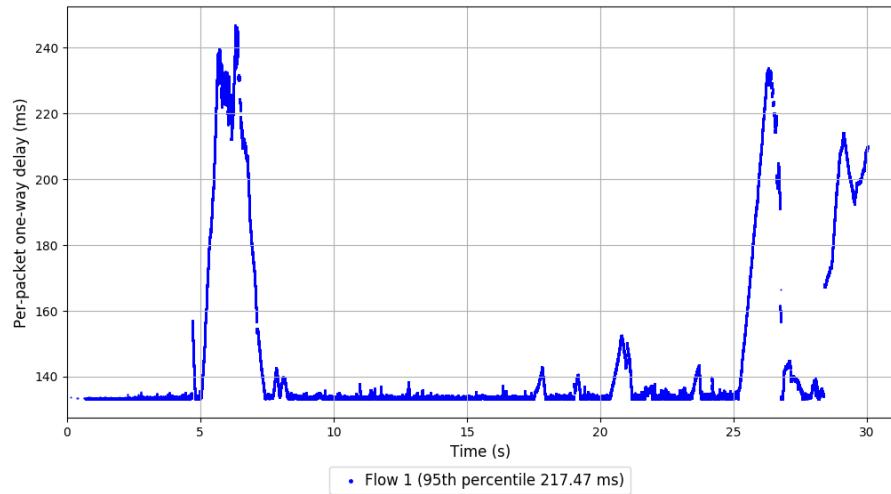
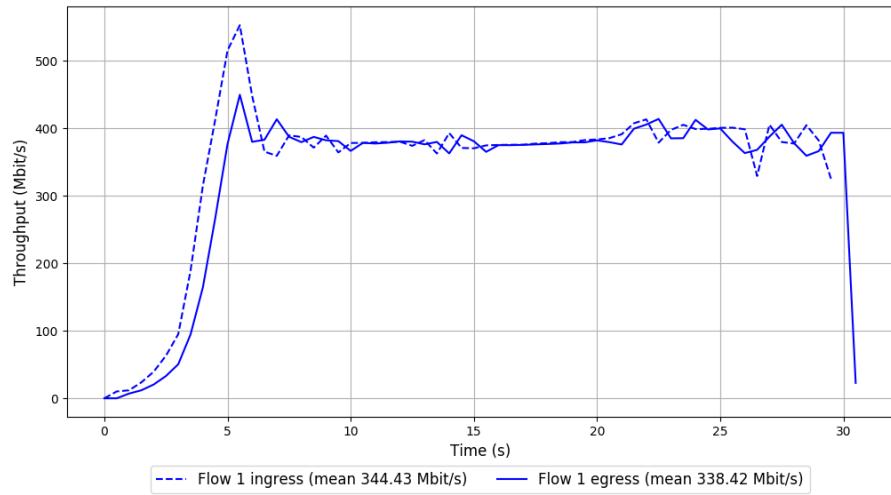


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-21 17:58:52
End at: 2019-01-21 17:59:22
Local clock offset: -0.442 ms
Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.42 Mbit/s
95th percentile per-packet one-way delay: 217.468 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 338.42 Mbit/s
95th percentile per-packet one-way delay: 217.468 ms
Loss rate: 1.74%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

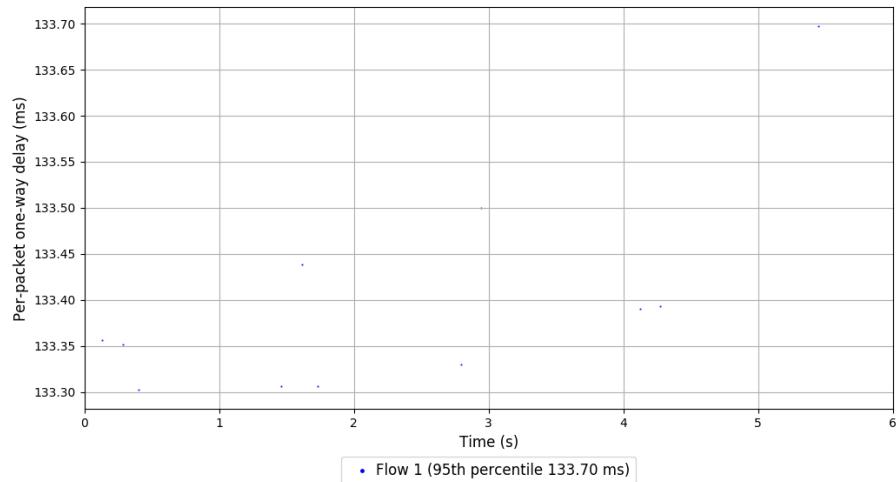
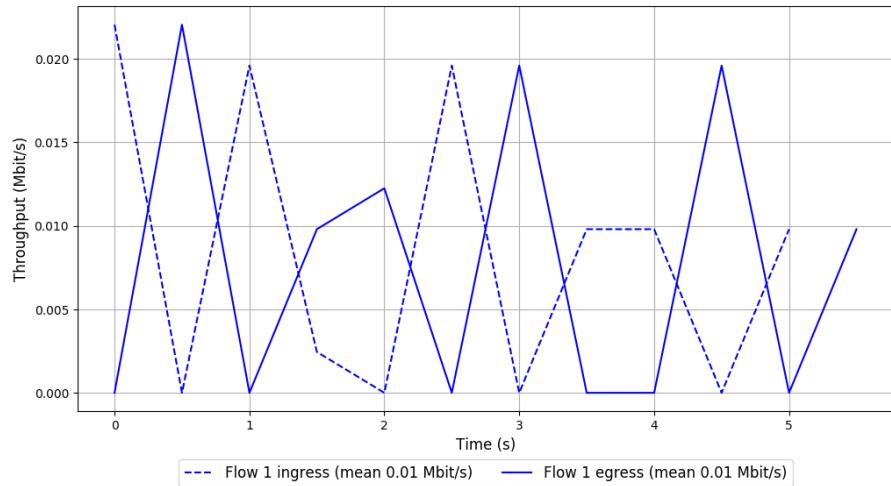
Start at: 2019-01-21 15:55:10

End at: 2019-01-21 15:55:40

Local clock offset: 0.125 ms

Remote clock offset: 0.038 ms

Run 1: Report of QUIC Cubic — Data Link

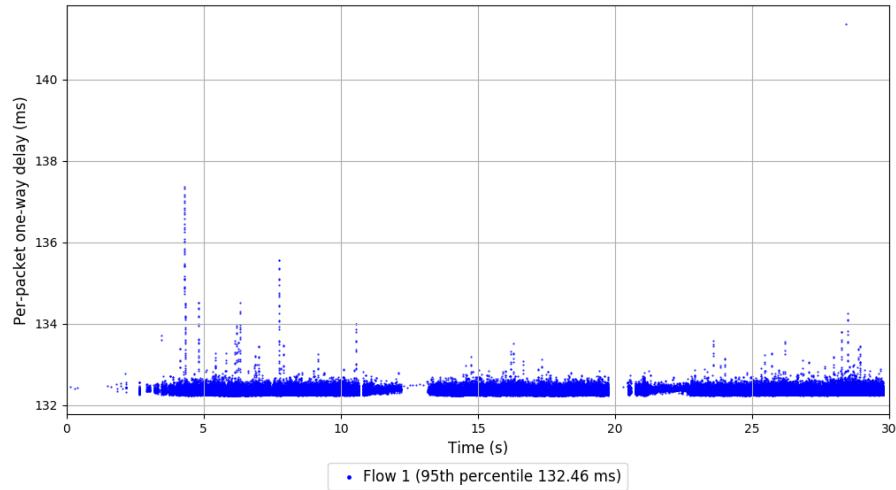
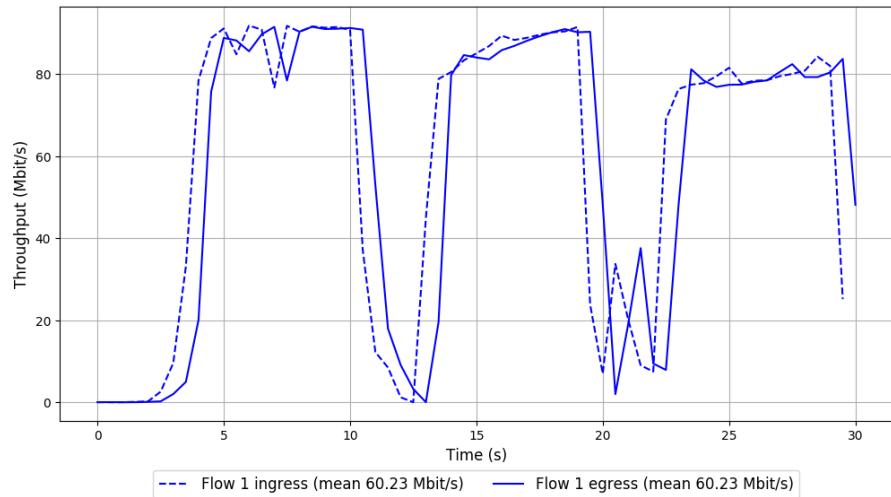


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-21 16:27:56
End at: 2019-01-21 16:28:26
Local clock offset: 0.323 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.23 Mbit/s
95th percentile per-packet one-way delay: 132.463 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.23 Mbit/s
95th percentile per-packet one-way delay: 132.463 ms
Loss rate: 0.00%
```

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

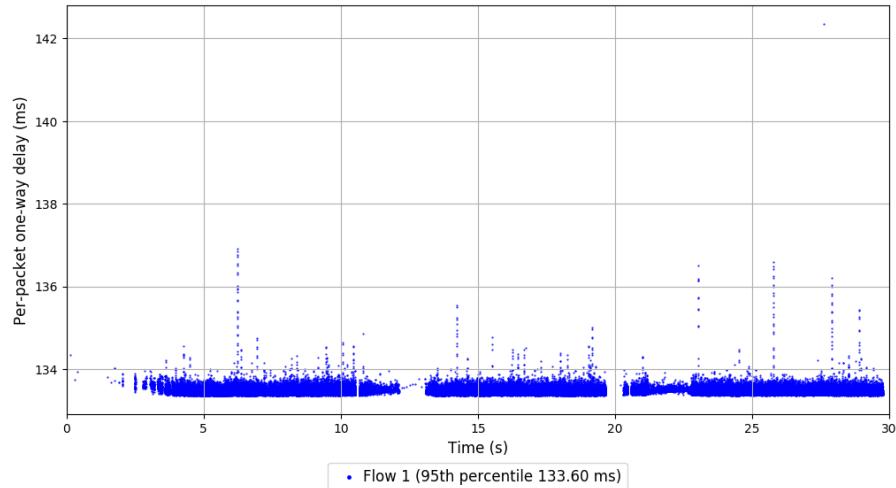
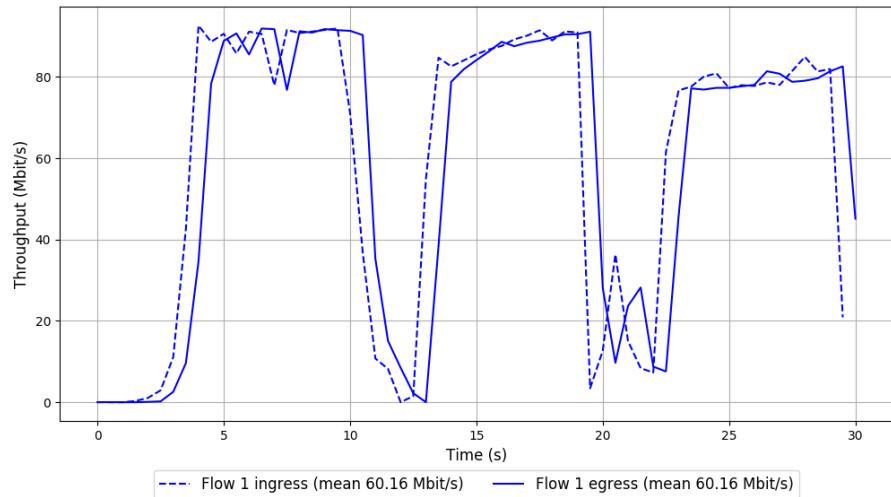


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-21 17:01:20
End at: 2019-01-21 17:01:50
Local clock offset: -0.405 ms
Remote clock offset: 0.428 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.16 Mbit/s
95th percentile per-packet one-way delay: 133.599 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.16 Mbit/s
95th percentile per-packet one-way delay: 133.599 ms
Loss rate: 0.00%
```

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

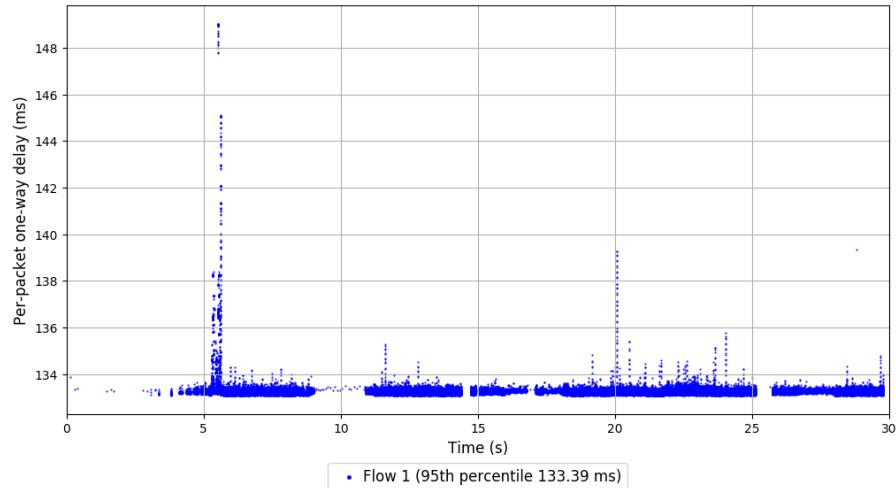
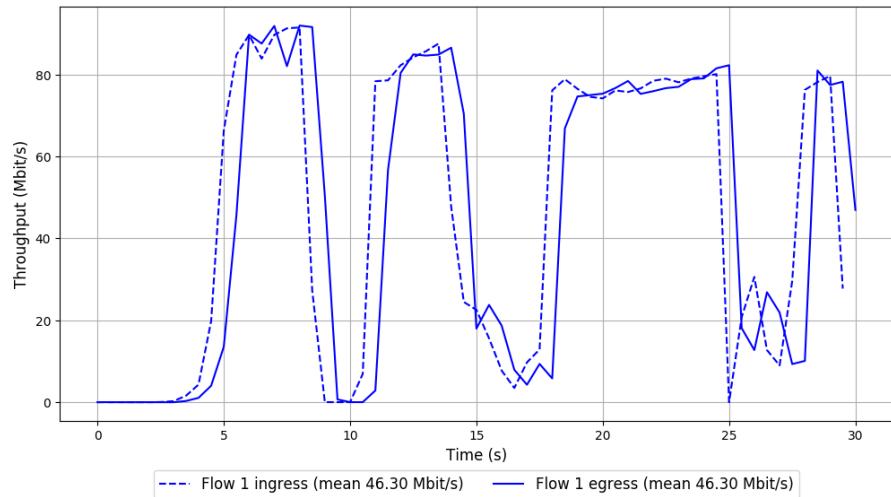


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-21 17:34:52
End at: 2019-01-21 17:35:22
Local clock offset: -0.352 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.30 Mbit/s
95th percentile per-packet one-way delay: 133.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.30 Mbit/s
95th percentile per-packet one-way delay: 133.387 ms
Loss rate: 0.00%
```

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

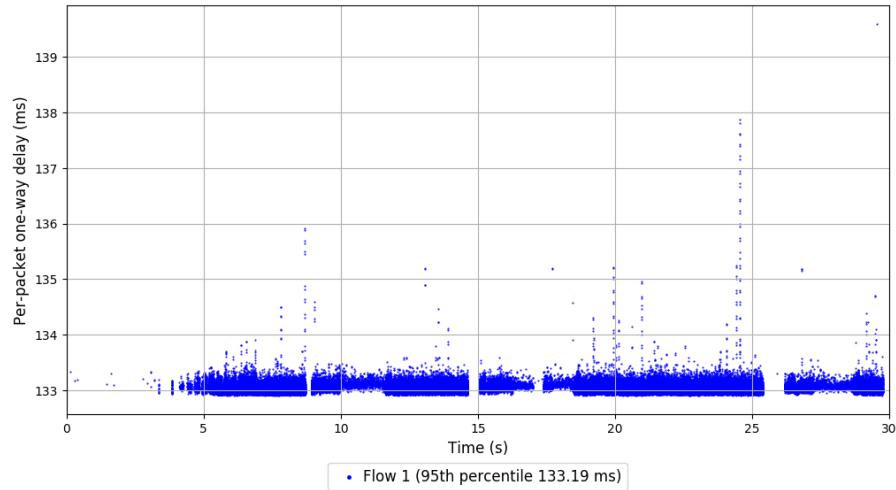
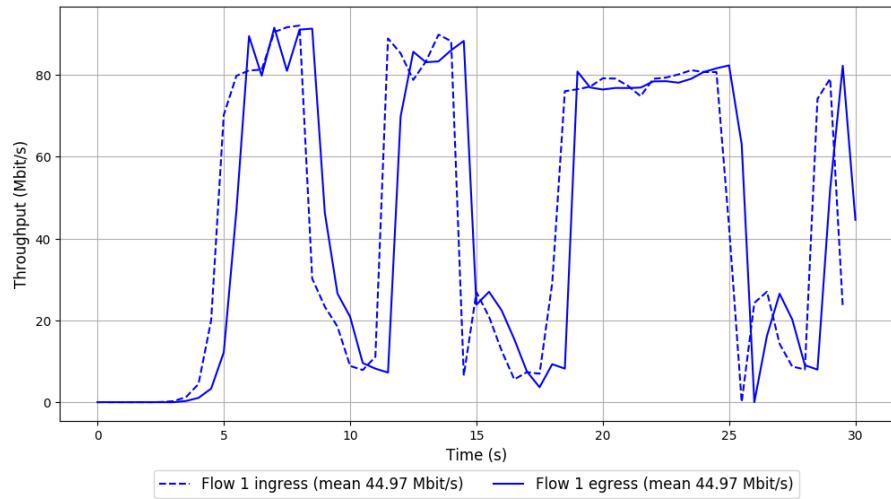


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-21 18:07:16
End at: 2019-01-21 18:07:46
Local clock offset: -0.063 ms
Remote clock offset: 0.274 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.97 Mbit/s
95th percentile per-packet one-way delay: 133.189 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.97 Mbit/s
95th percentile per-packet one-way delay: 133.189 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

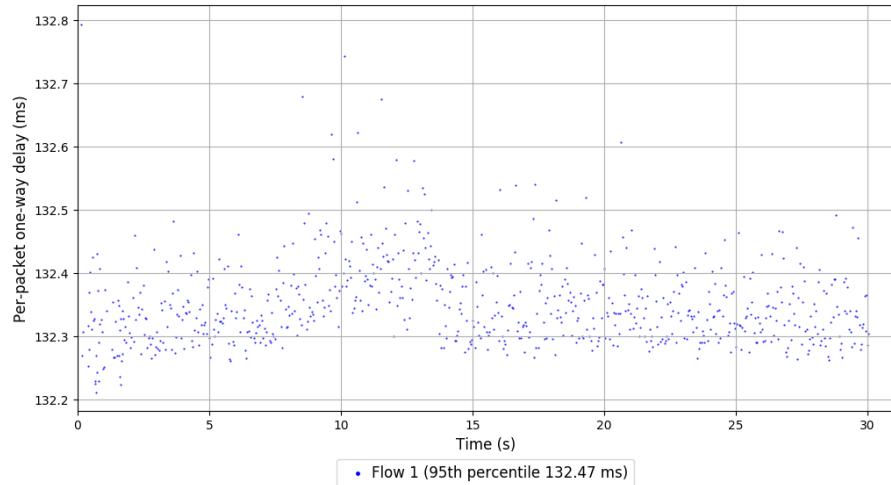
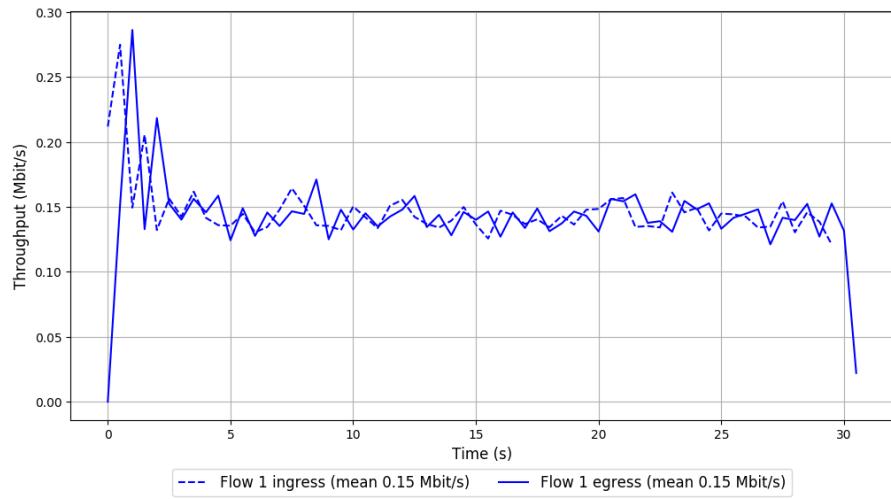


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-01-21 15:56:20
End at: 2019-01-21 15:56:50
Local clock offset: 0.352 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.465 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

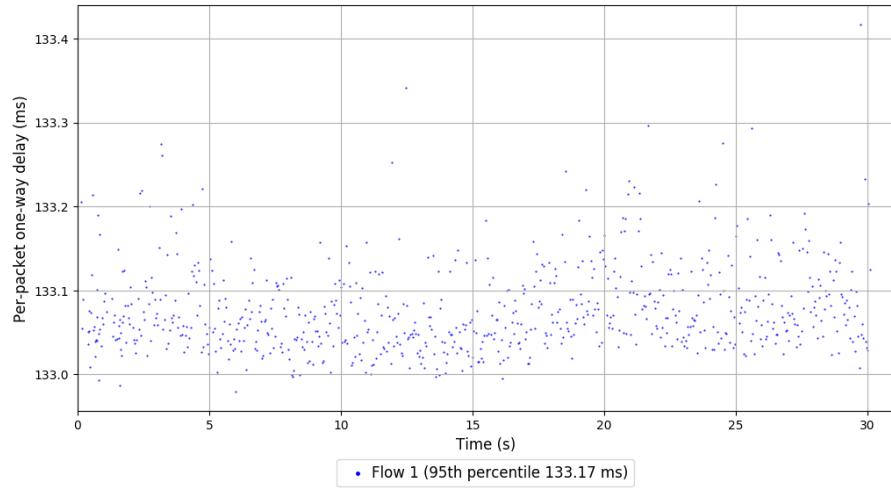
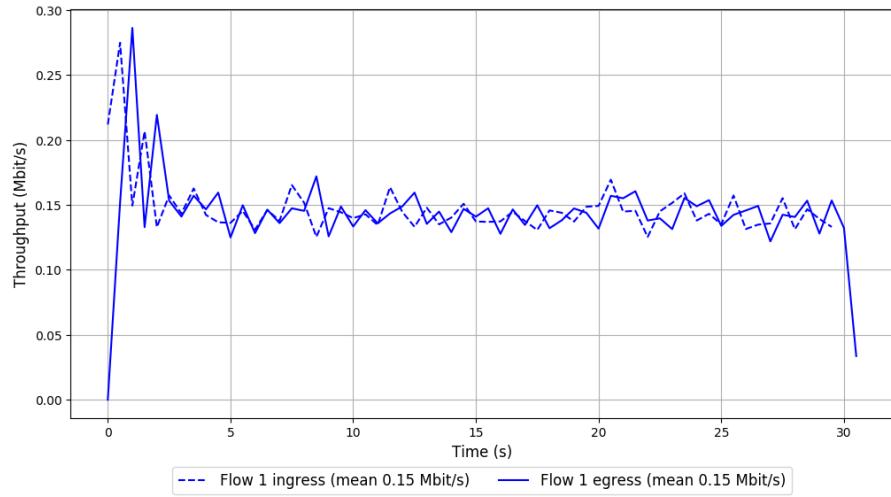


Run 2: Statistics of SCReAM

```
Start at: 2019-01-21 16:29:11
End at: 2019-01-21 16:29:41
Local clock offset: -0.04 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.173 ms
Loss rate: 0.00%
```

## Run 2: Report of SCReAM — Data Link

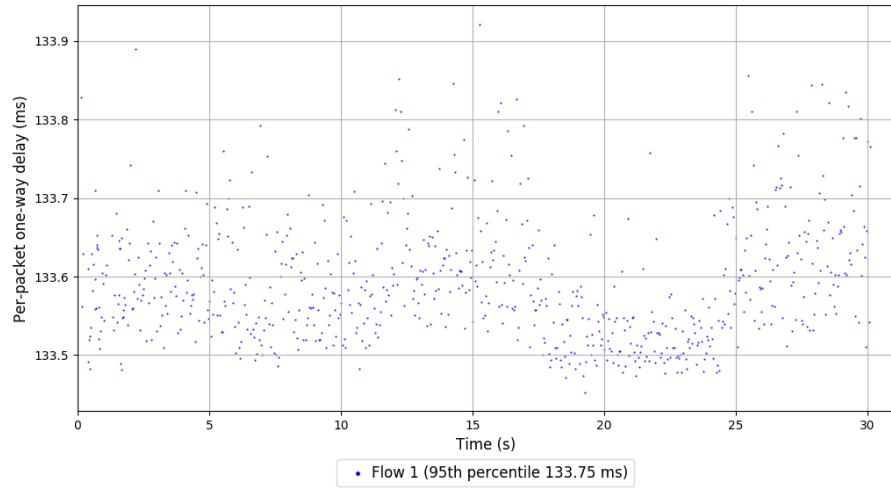
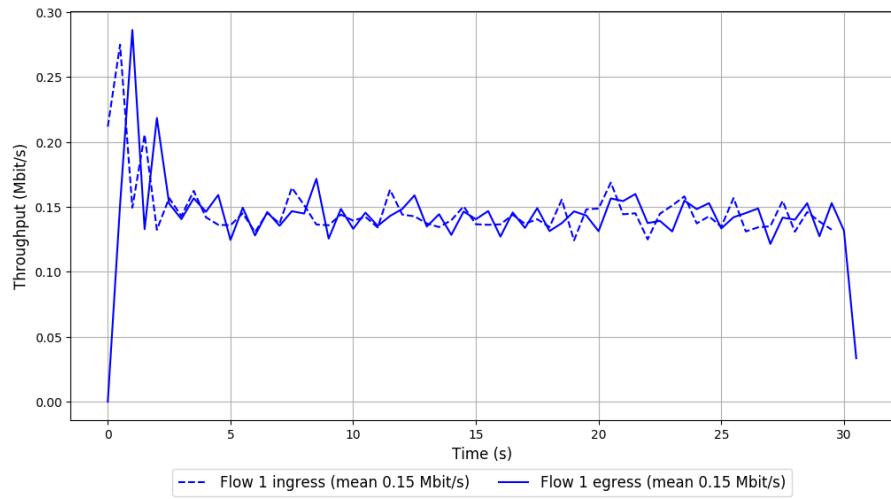


Run 3: Statistics of SCReAM

```
Start at: 2019-01-21 17:02:36
End at: 2019-01-21 17:03:06
Local clock offset: -0.586 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.747 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.747 ms
Loss rate: 0.00%
```

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

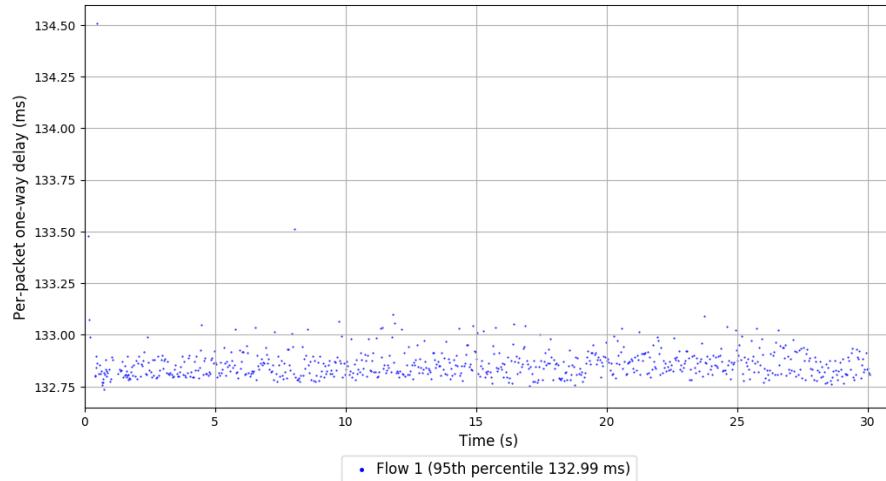
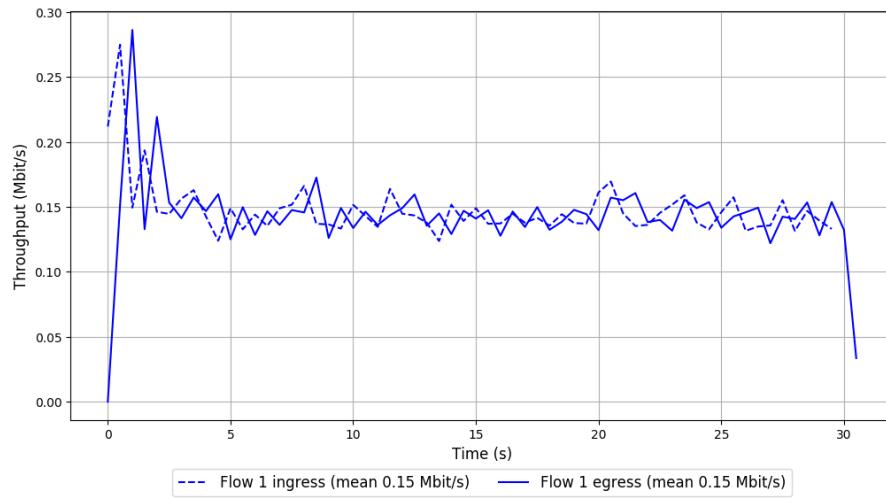


Run 4: Statistics of SCReAM

```
Start at: 2019-01-21 17:36:07
End at: 2019-01-21 17:36:37
Local clock offset: -0.023 ms
Remote clock offset: 0.381 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.986 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.986 ms
Loss rate: 0.00%
```

## Run 4: Report of SCReAM — Data Link

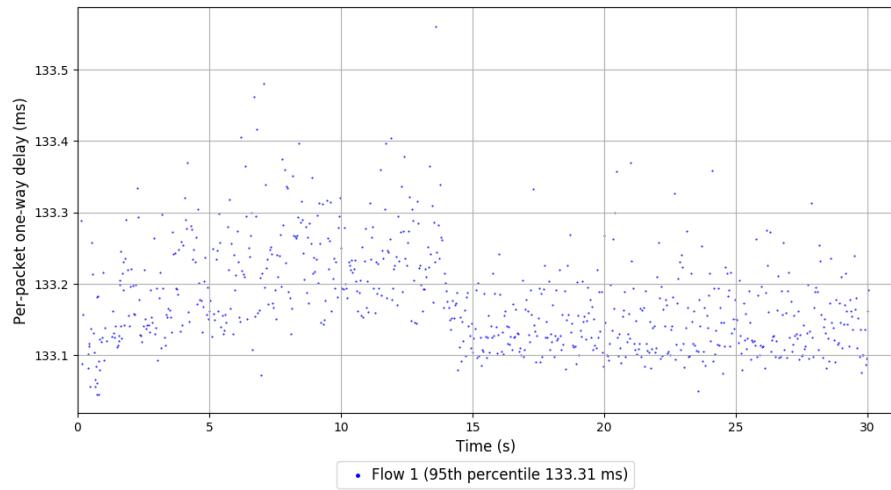
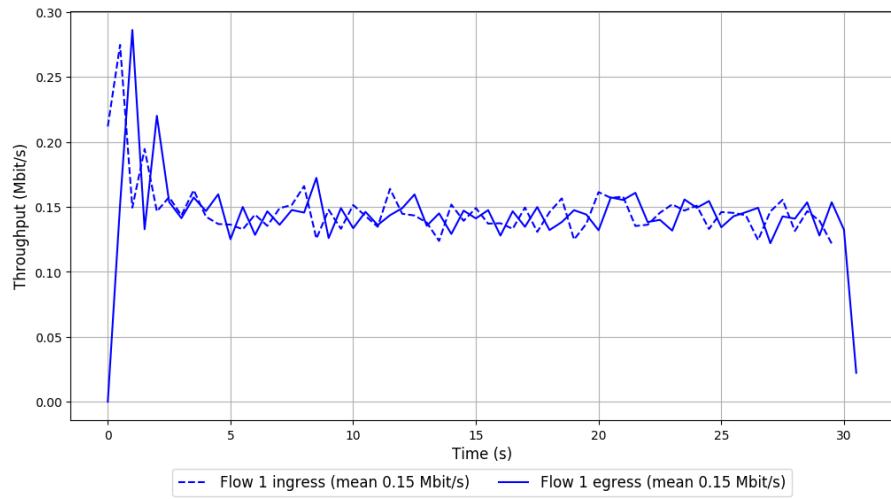


Run 5: Statistics of SCReAM

```
Start at: 2019-01-21 18:08:34
End at: 2019-01-21 18:09:04
Local clock offset: -0.057 ms
Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.313 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.313 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

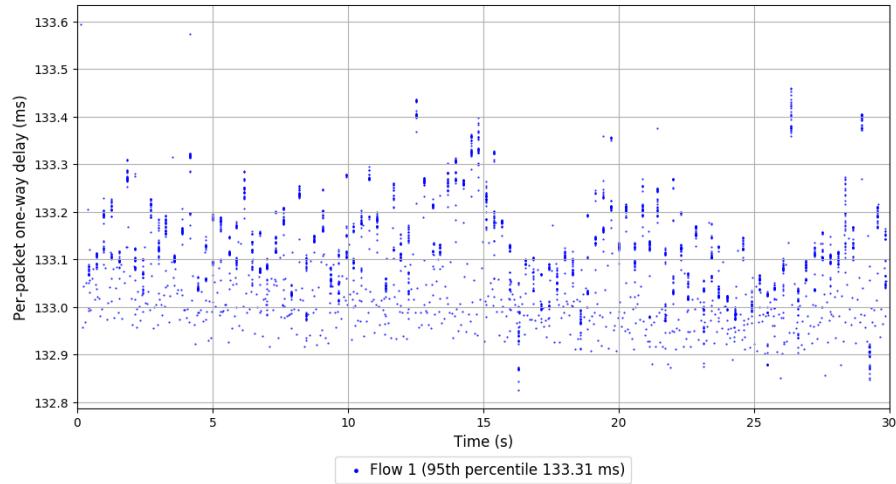
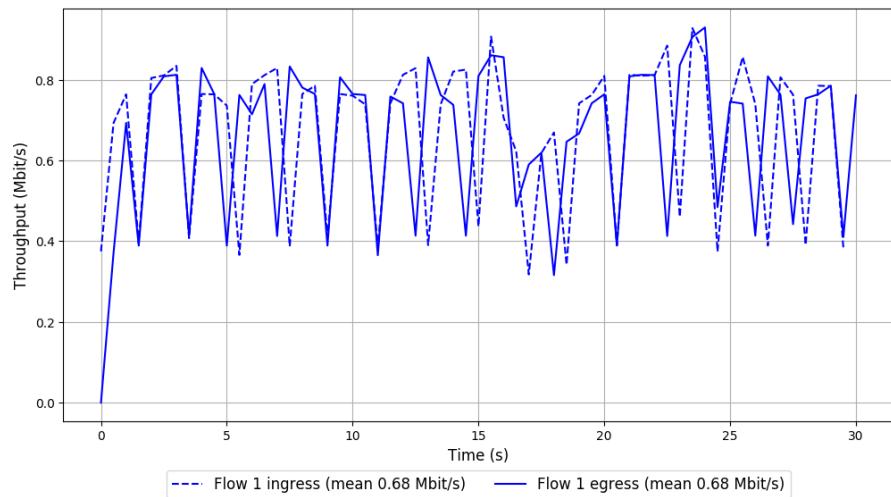


Run 1: Statistics of Sprout

```
Start at: 2019-01-21 15:45:11
End at: 2019-01-21 15:45:41
Local clock offset: 0.087 ms
Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 133.314 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 133.314 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

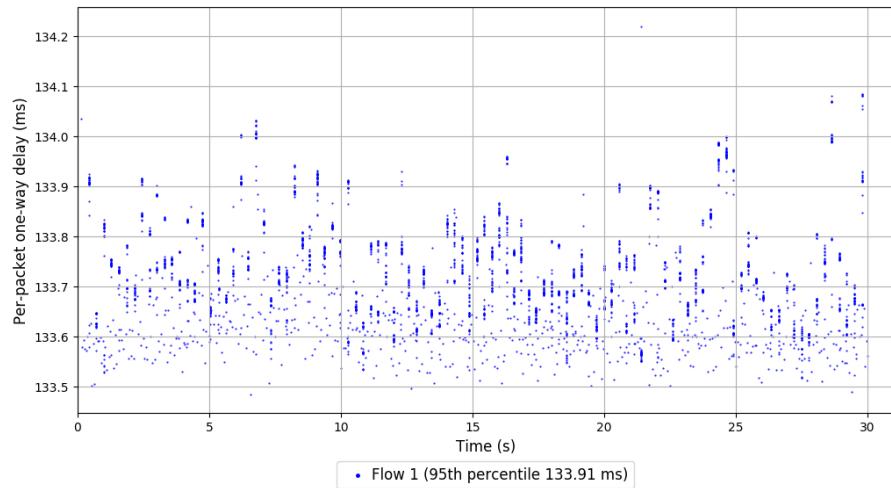
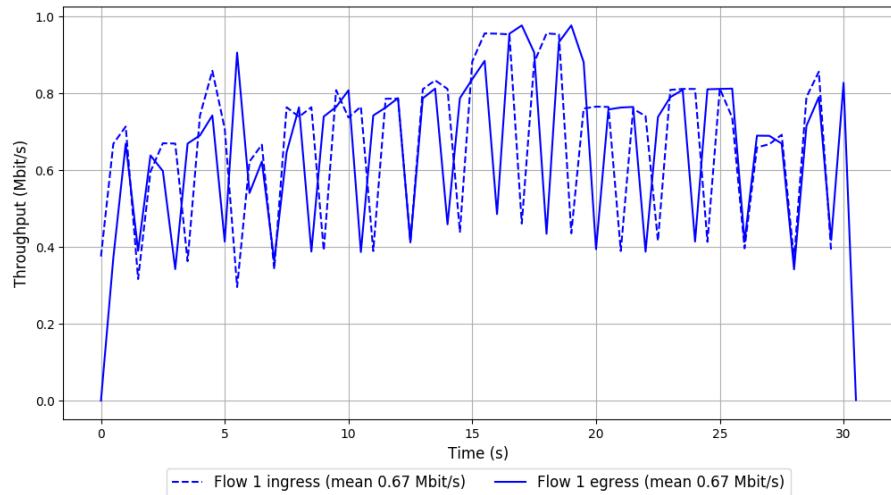


Run 2: Statistics of Sprout

```
Start at: 2019-01-21 16:18:38
End at: 2019-01-21 16:19:08
Local clock offset: -0.048 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 133.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 133.915 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link

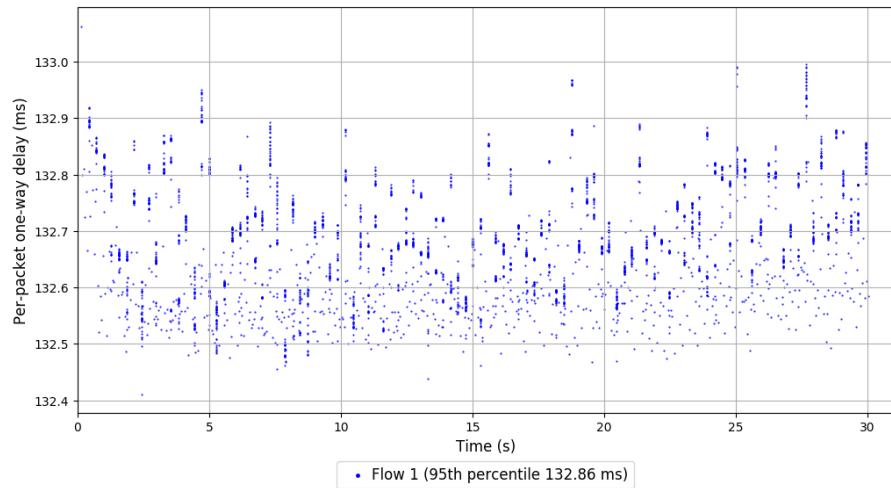
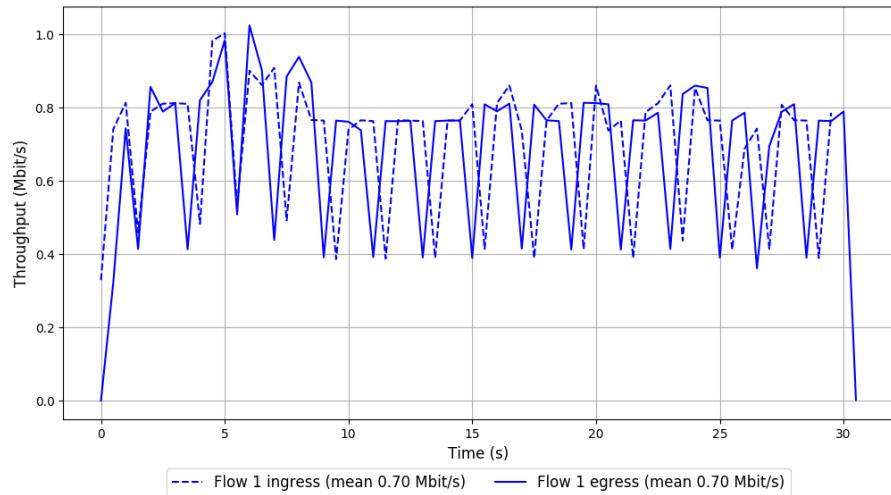


Run 3: Statistics of Sprout

```
Start at: 2019-01-21 16:51:01
End at: 2019-01-21 16:51:31
Local clock offset: -0.082 ms
Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 132.857 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 132.857 ms
Loss rate: 0.00%
```

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

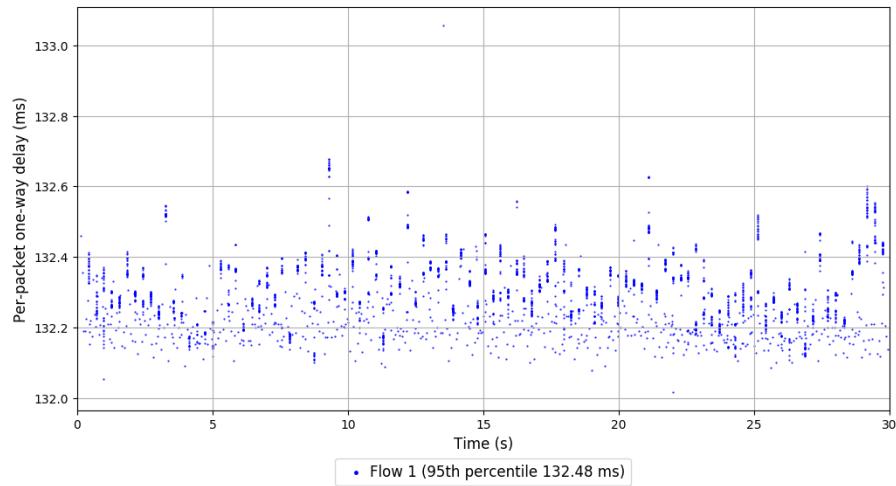
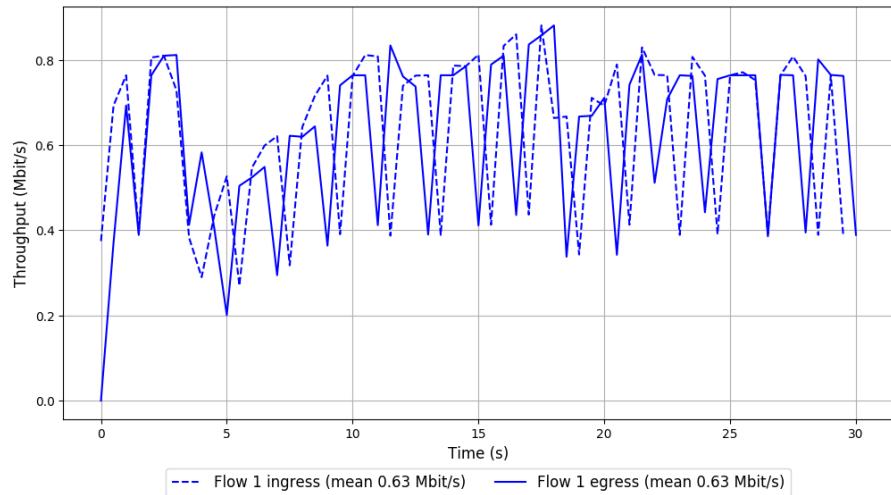


Run 4: Statistics of Sprout

```
Start at: 2019-01-21 17:24:44
End at: 2019-01-21 17:25:14
Local clock offset: 0.279 ms
Remote clock offset: -0.333 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 132.479 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 132.479 ms
Loss rate: 0.00%
```

## Run 4: Report of Sprout — Data Link

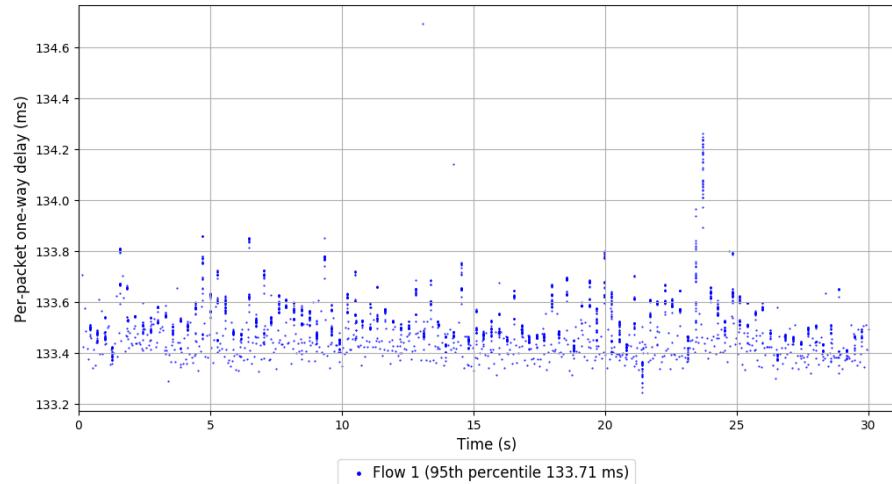
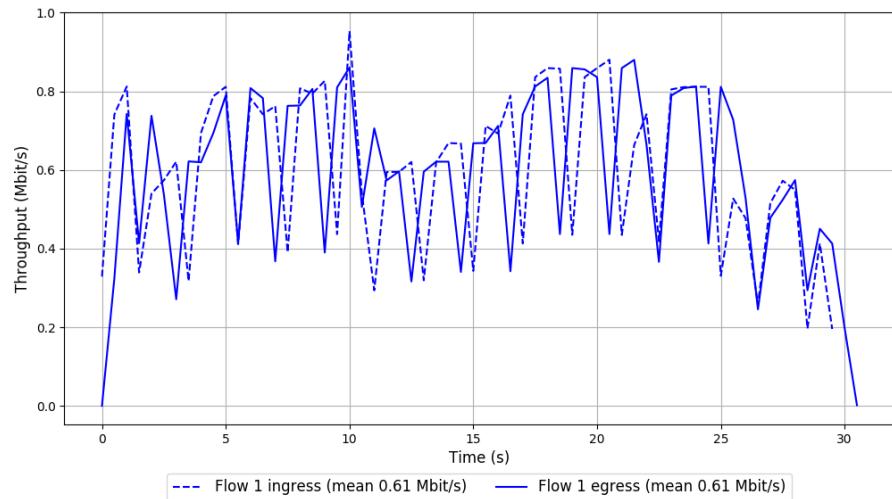


Run 5: Statistics of Sprout

```
Start at: 2019-01-21 17:57:41
End at: 2019-01-21 17:58:11
Local clock offset: -0.323 ms
Remote clock offset: 0.403 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 133.706 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 133.706 ms
Loss rate: 0.00%
```

## Run 5: Report of Sprout — Data Link

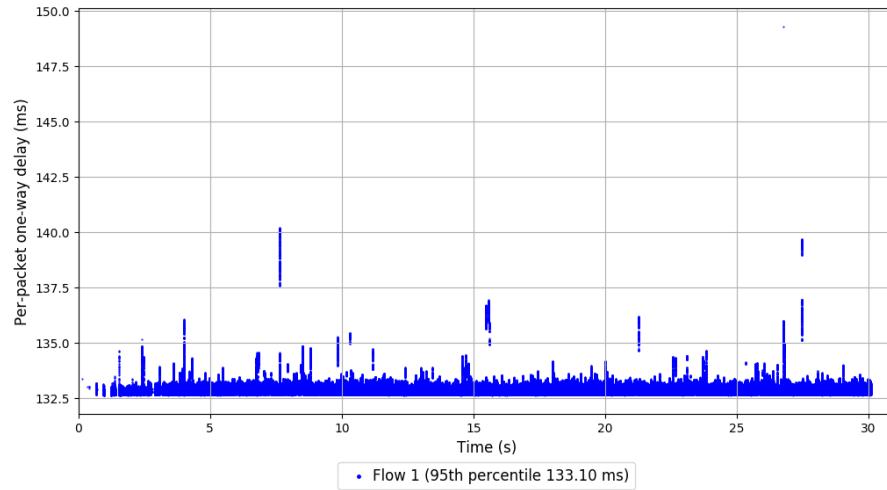
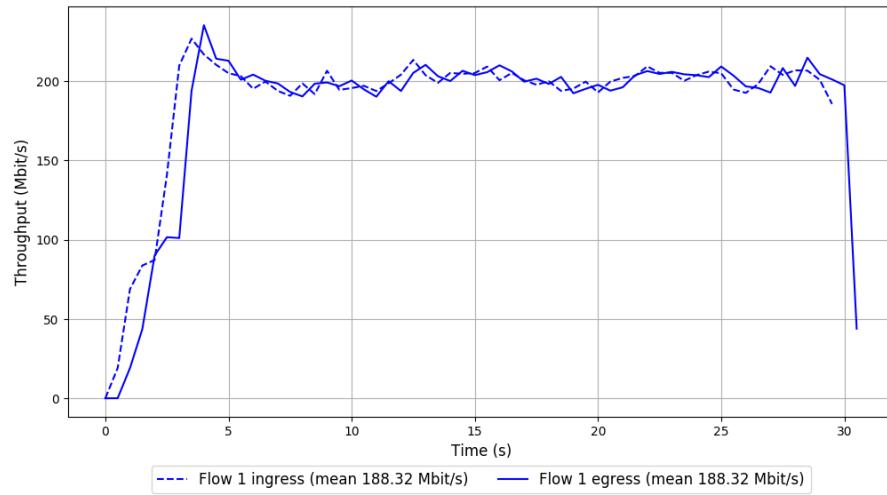


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-21 15:50:13
End at: 2019-01-21 15:50:43
Local clock offset: -0.065 ms
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.32 Mbit/s
95th percentile per-packet one-way delay: 133.099 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.32 Mbit/s
95th percentile per-packet one-way delay: 133.099 ms
Loss rate: 0.00%
```

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

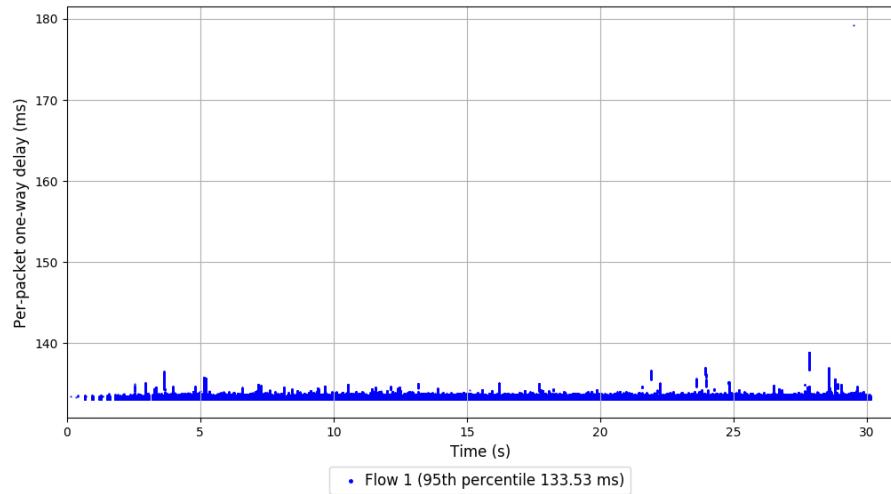
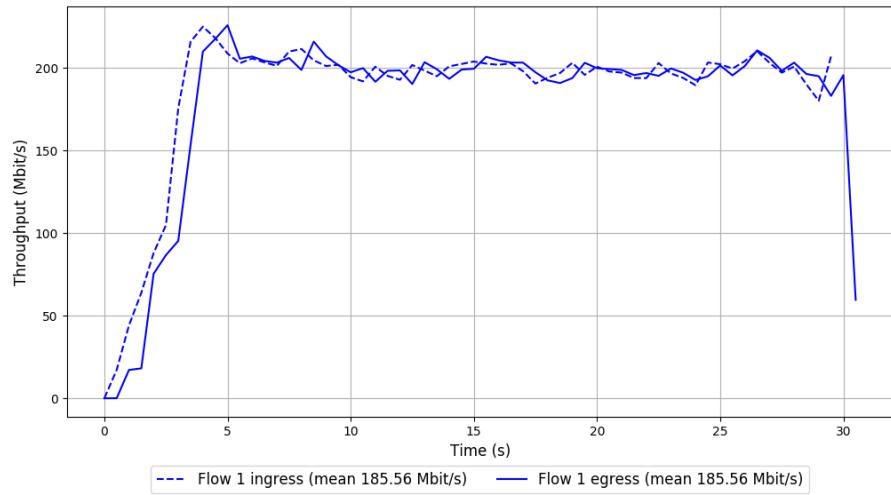


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-21 16:23:15
End at: 2019-01-21 16:23:45
Local clock offset: 0.236 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.56 Mbit/s
95th percentile per-packet one-way delay: 133.530 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 185.56 Mbit/s
95th percentile per-packet one-way delay: 133.530 ms
Loss rate: 0.00%
```

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

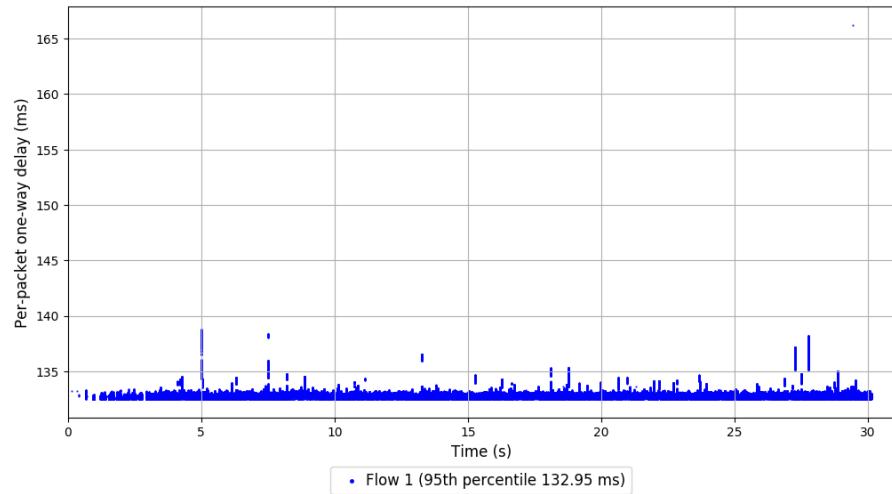
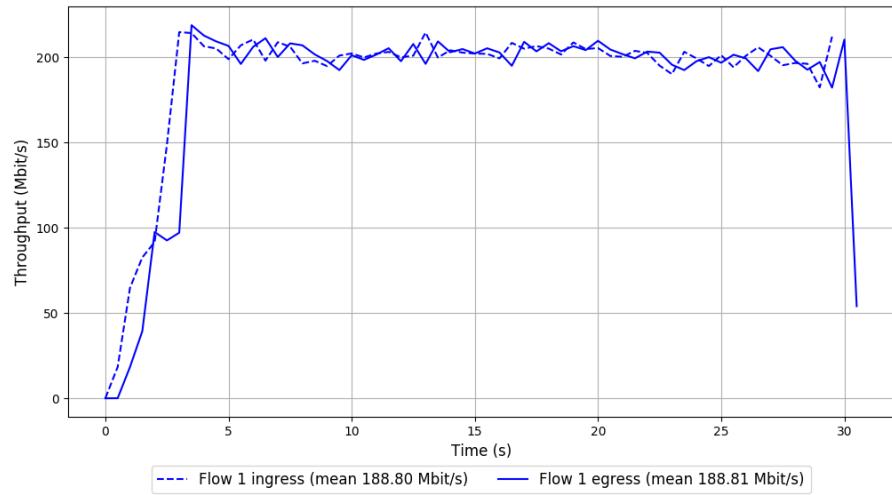


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-21 16:56:19
End at: 2019-01-21 16:56:49
Local clock offset: -0.14 ms
Remote clock offset: -0.293 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.81 Mbit/s
95th percentile per-packet one-way delay: 132.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.81 Mbit/s
95th percentile per-packet one-way delay: 132.954 ms
Loss rate: 0.00%
```

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

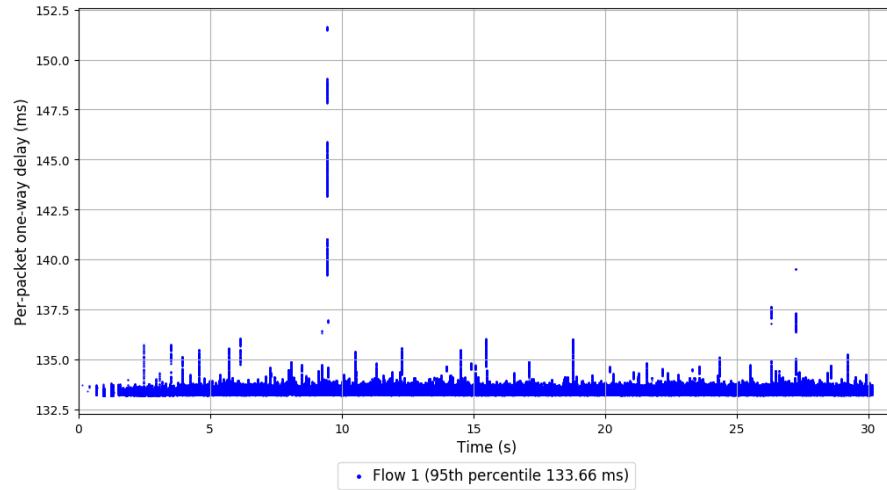
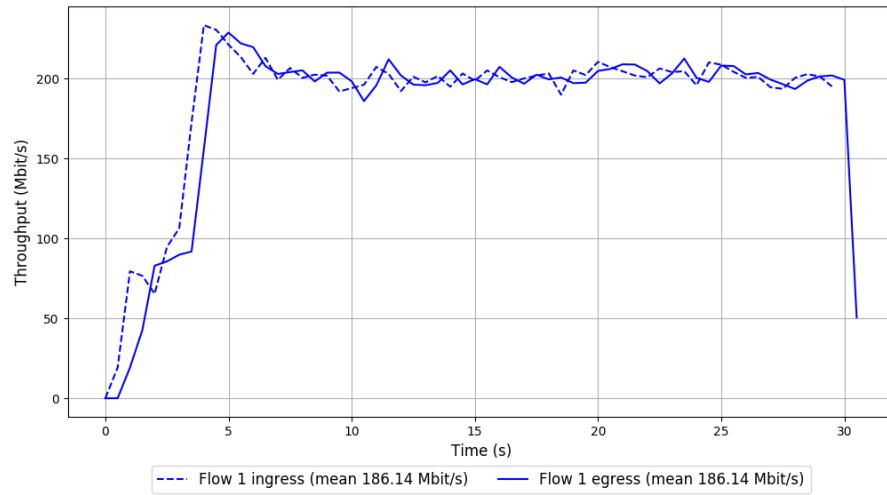


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-21 17:29:55
End at: 2019-01-21 17:30:25
Local clock offset: -0.615 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.14 Mbit/s
95th percentile per-packet one-way delay: 133.655 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.14 Mbit/s
95th percentile per-packet one-way delay: 133.655 ms
Loss rate: 0.00%
```

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

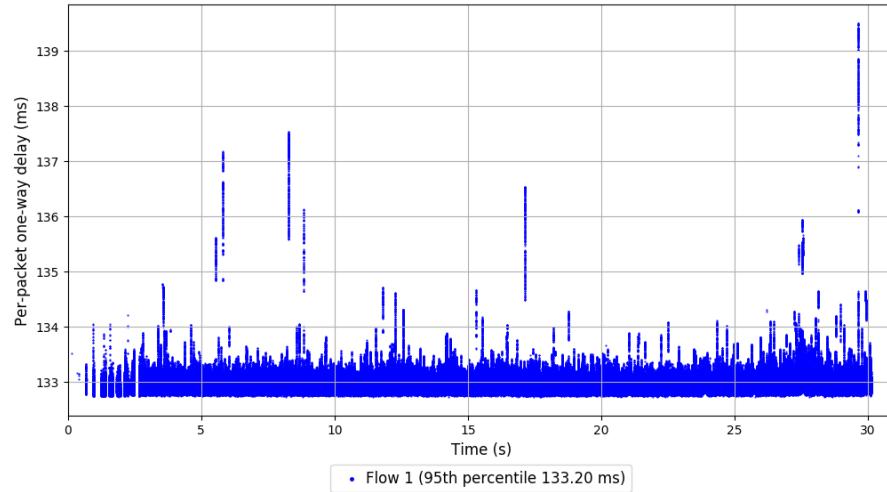
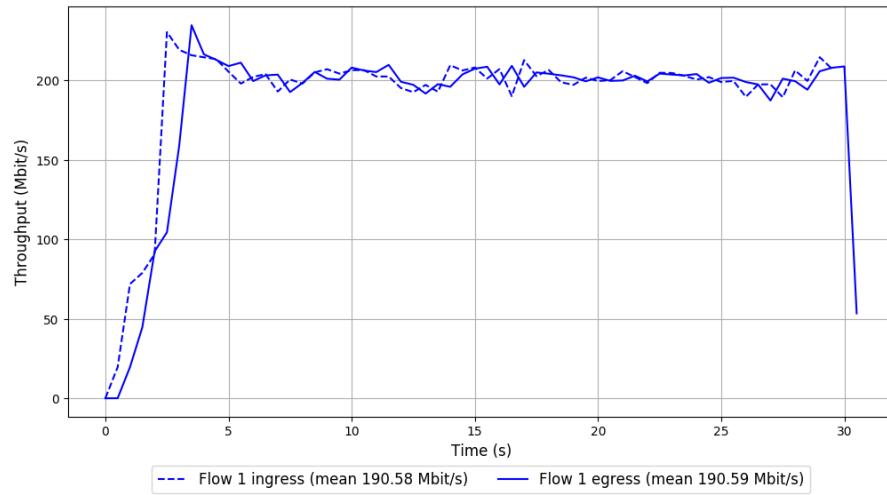


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-21 18:02:25
End at: 2019-01-21 18:02:55
Local clock offset: -0.25 ms
Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.59 Mbit/s
95th percentile per-packet one-way delay: 133.202 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 190.59 Mbit/s
95th percentile per-packet one-way delay: 133.202 ms
Loss rate: 0.00%
```

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

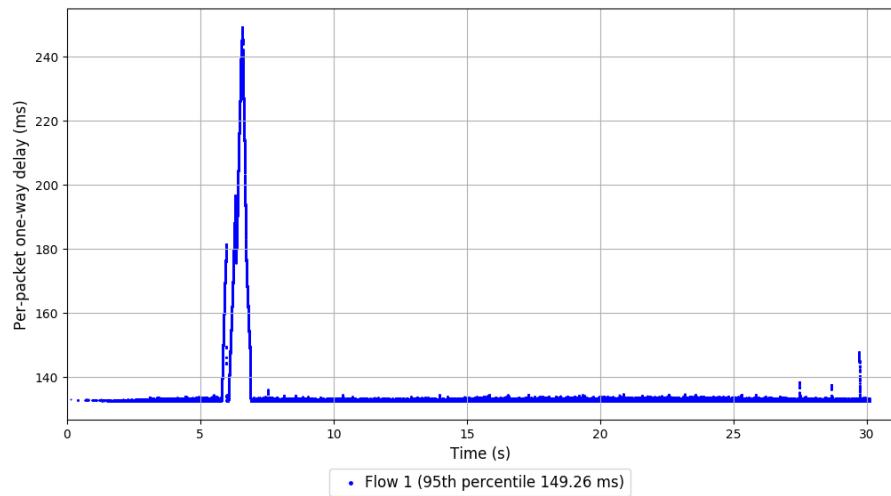
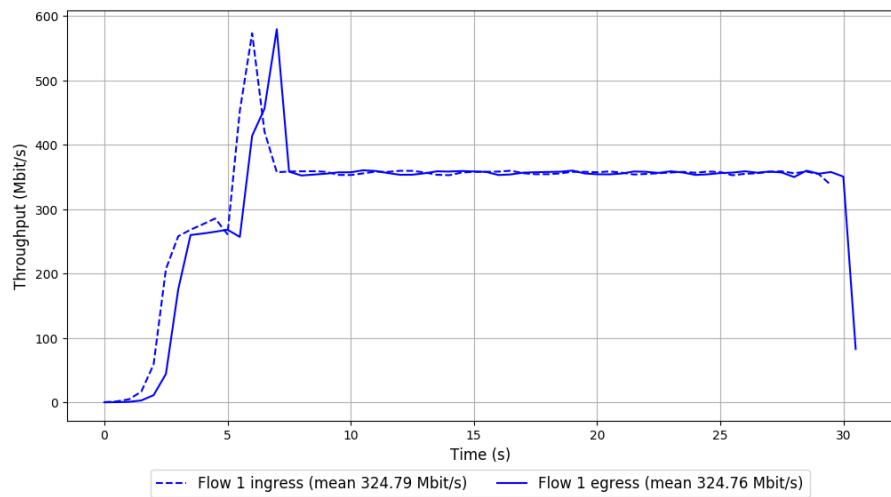


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-21 15:53:35
End at: 2019-01-21 15:54:05
Local clock offset: 0.144 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.76 Mbit/s
95th percentile per-packet one-way delay: 149.261 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 324.76 Mbit/s
95th percentile per-packet one-way delay: 149.261 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Vegas — Data Link

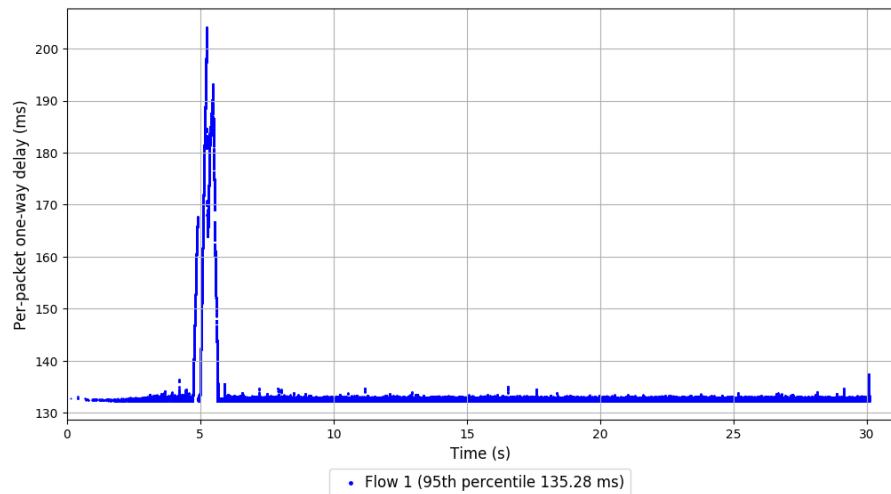
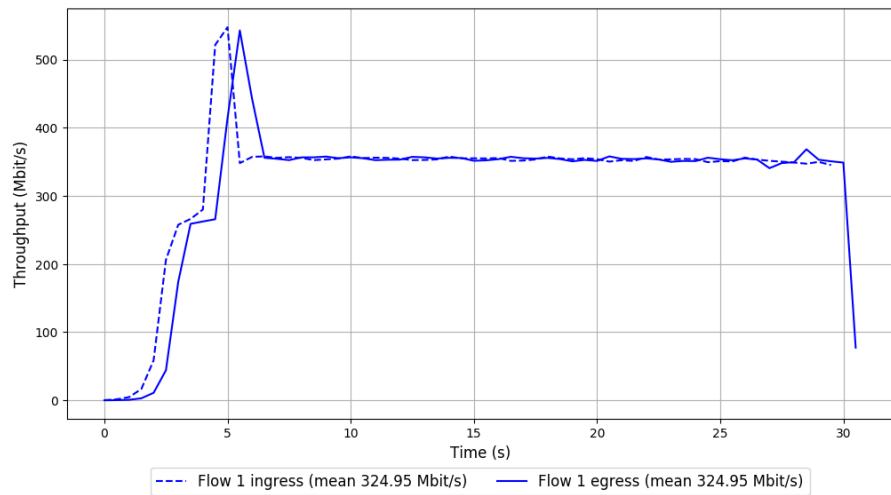


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-21 16:26:25
End at: 2019-01-21 16:26:55
Local clock offset: 0.22 ms
Remote clock offset: -0.365 ms

# Below is generated by plot.py at 2019-01-21 20:28:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.95 Mbit/s
95th percentile per-packet one-way delay: 135.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 324.95 Mbit/s
95th percentile per-packet one-way delay: 135.284 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

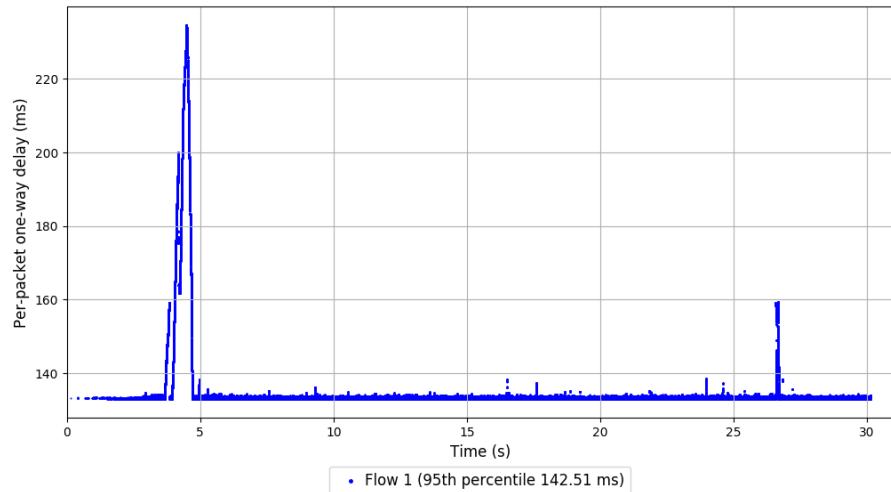
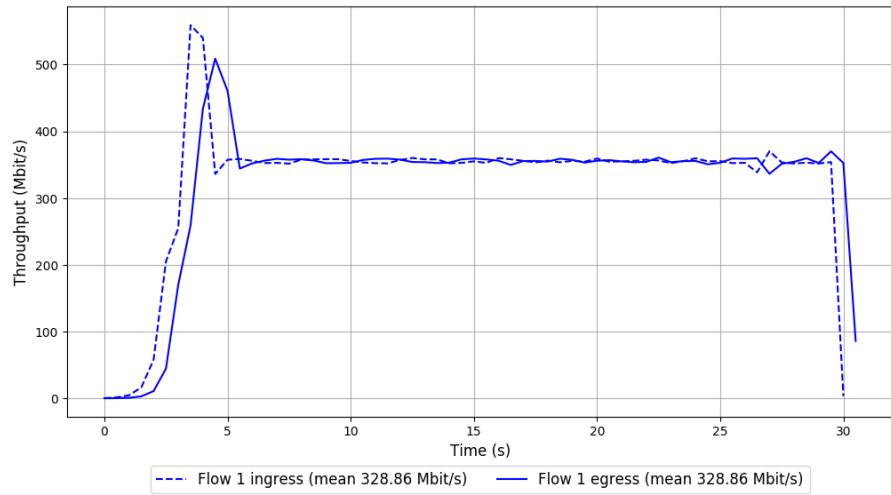


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-21 16:59:45
End at: 2019-01-21 17:00:15
Local clock offset: 0.293 ms
Remote clock offset: 0.325 ms

# Below is generated by plot.py at 2019-01-21 20:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.86 Mbit/s
95th percentile per-packet one-way delay: 142.507 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 328.86 Mbit/s
95th percentile per-packet one-way delay: 142.507 ms
Loss rate: 0.00%
```

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

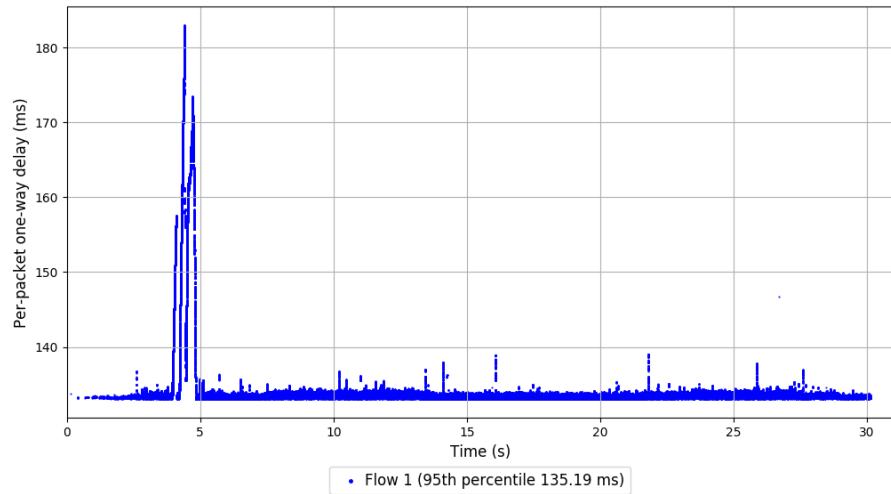
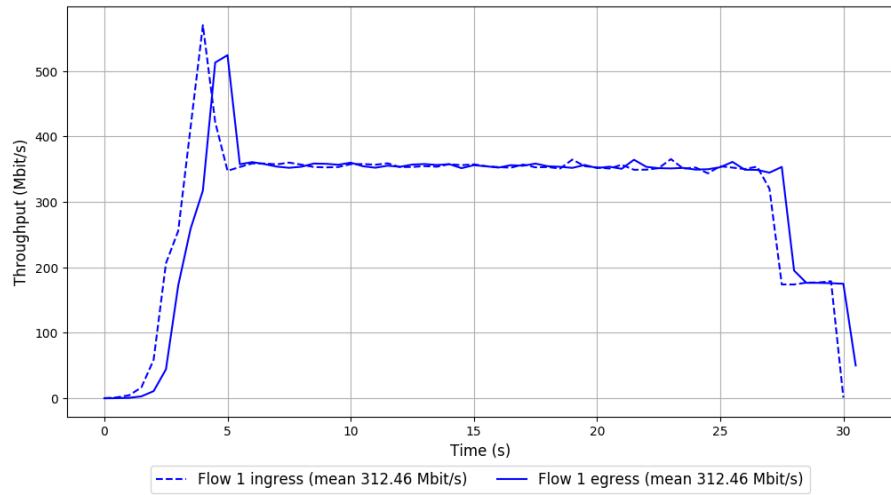


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-21 17:33:17
End at: 2019-01-21 17:33:47
Local clock offset: -0.45 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-01-21 20:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.46 Mbit/s
95th percentile per-packet one-way delay: 135.195 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 312.46 Mbit/s
95th percentile per-packet one-way delay: 135.195 ms
Loss rate: 0.00%
```

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

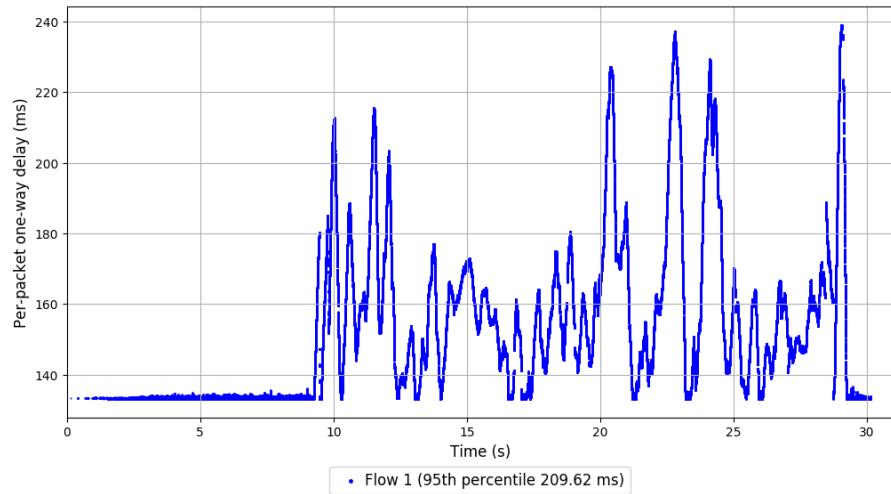
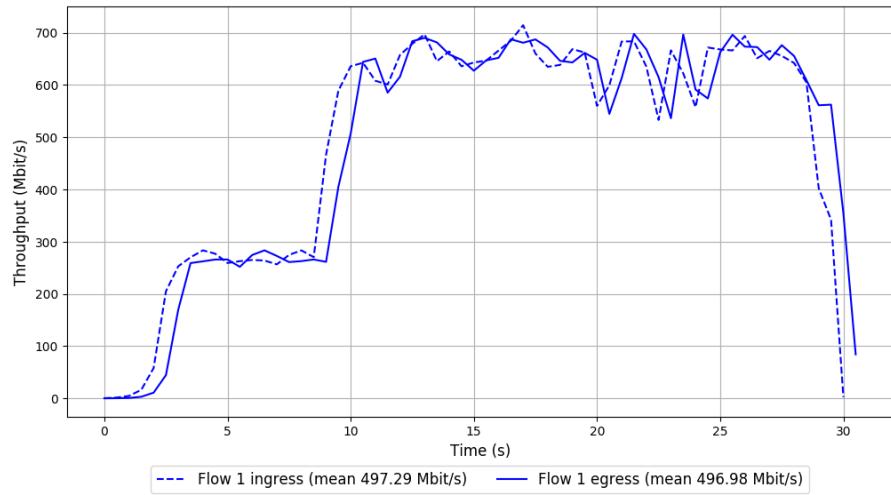


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-21 18:05:36
End at: 2019-01-21 18:06:07
Local clock offset: -0.625 ms
Remote clock offset: -0.276 ms

# Below is generated by plot.py at 2019-01-21 20:33:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 496.98 Mbit/s
95th percentile per-packet one-way delay: 209.625 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 496.98 Mbit/s
95th percentile per-packet one-way delay: 209.625 ms
Loss rate: 0.06%
```

Run 5: Report of TCP Vegas — Data Link

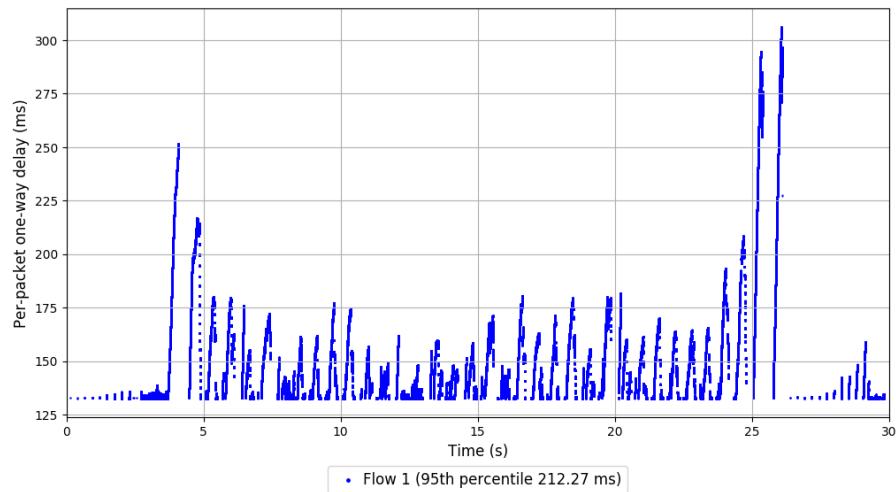
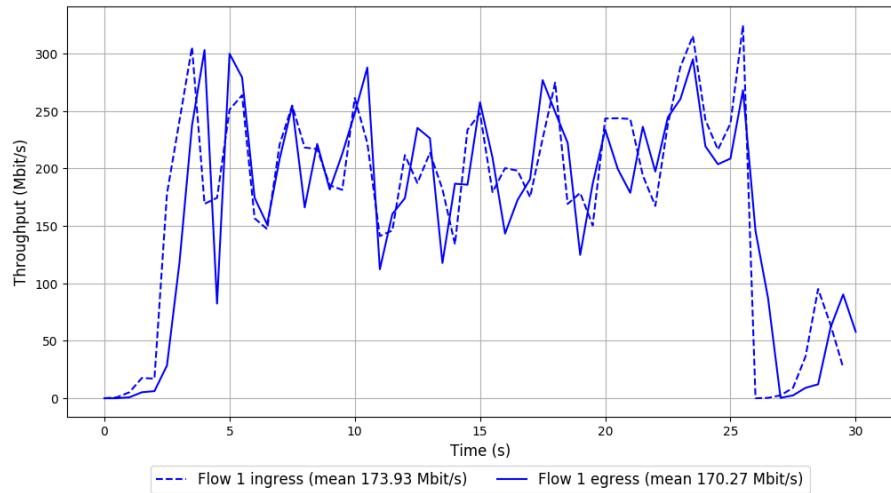


Run 1: Statistics of Verus

```
Start at: 2019-01-21 15:41:59
End at: 2019-01-21 15:42:29
Local clock offset: 0.12 ms
Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2019-01-21 20:33:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 170.27 Mbit/s
95th percentile per-packet one-way delay: 212.272 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 170.27 Mbit/s
95th percentile per-packet one-way delay: 212.272 ms
Loss rate: 2.10%
```

Run 1: Report of Verus — Data Link

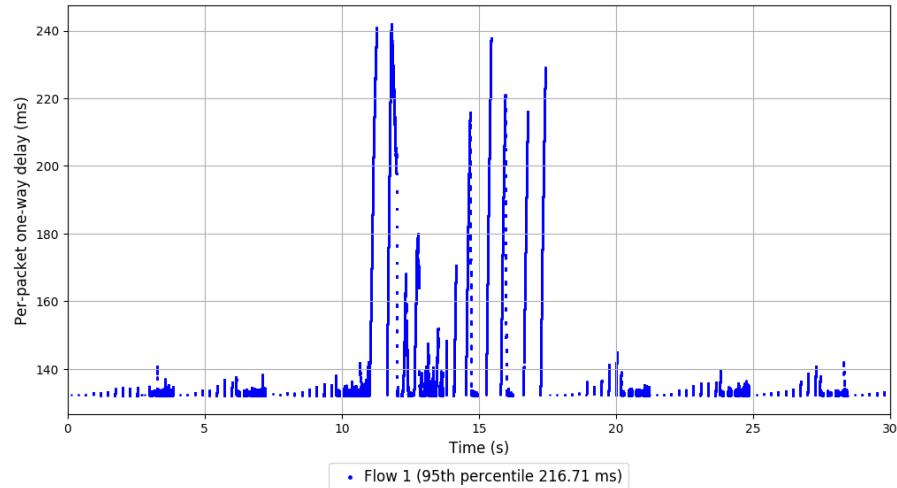
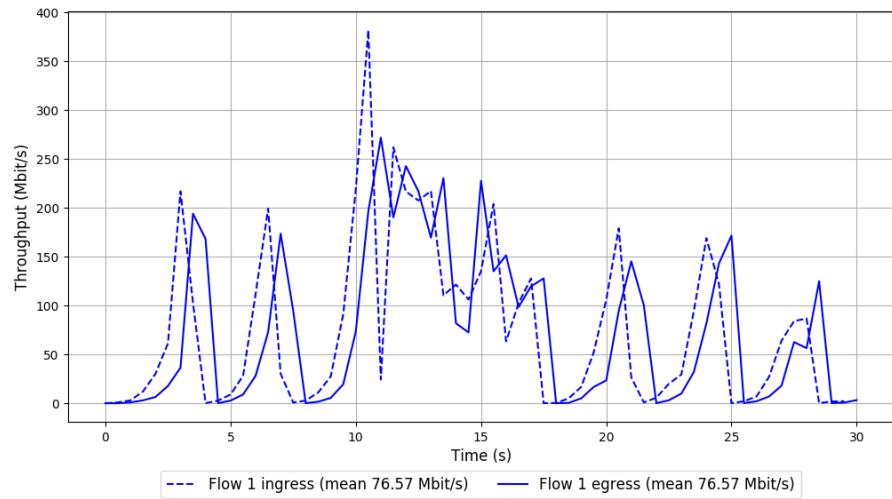


Run 2: Statistics of Verus

```
Start at: 2019-01-21 16:15:22
End at: 2019-01-21 16:15:52
Local clock offset: -0.151 ms
Remote clock offset: -0.336 ms

# Below is generated by plot.py at 2019-01-21 20:33:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.57 Mbit/s
95th percentile per-packet one-way delay: 216.714 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.57 Mbit/s
95th percentile per-packet one-way delay: 216.714 ms
Loss rate: 0.00%
```

## Run 2: Report of Verus — Data Link

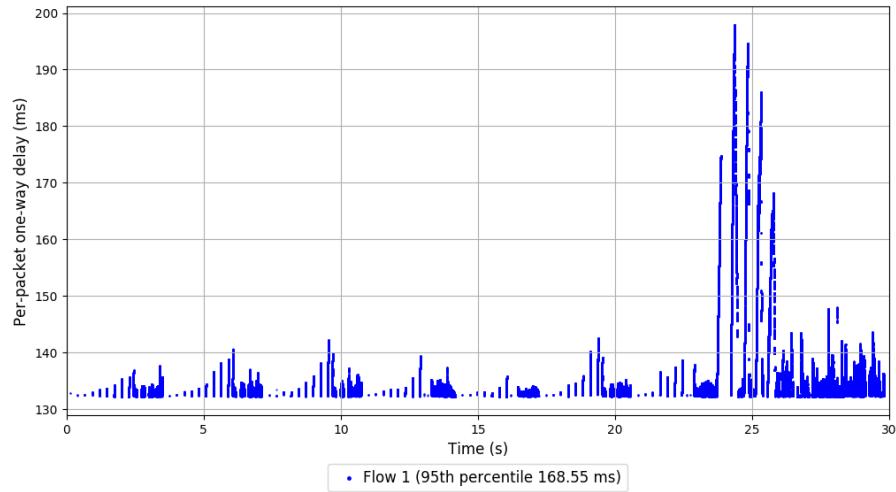
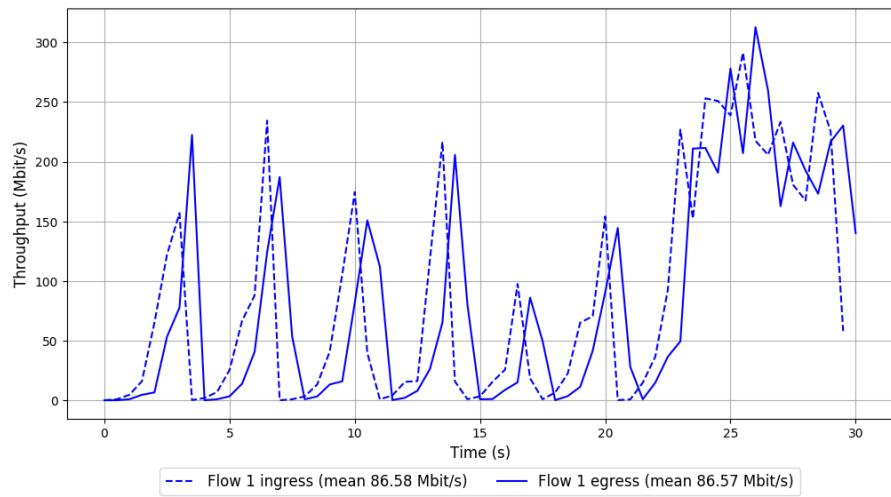


Run 3: Statistics of Verus

```
Start at: 2019-01-21 16:48:21
End at: 2019-01-21 16:48:51
Local clock offset: 0.078 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-01-21 20:33:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.57 Mbit/s
95th percentile per-packet one-way delay: 168.553 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.57 Mbit/s
95th percentile per-packet one-way delay: 168.553 ms
Loss rate: 0.00%
```

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

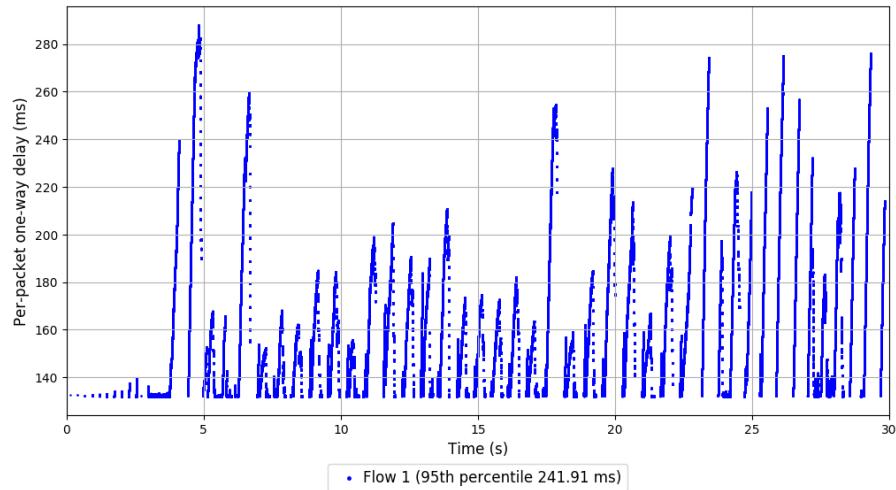
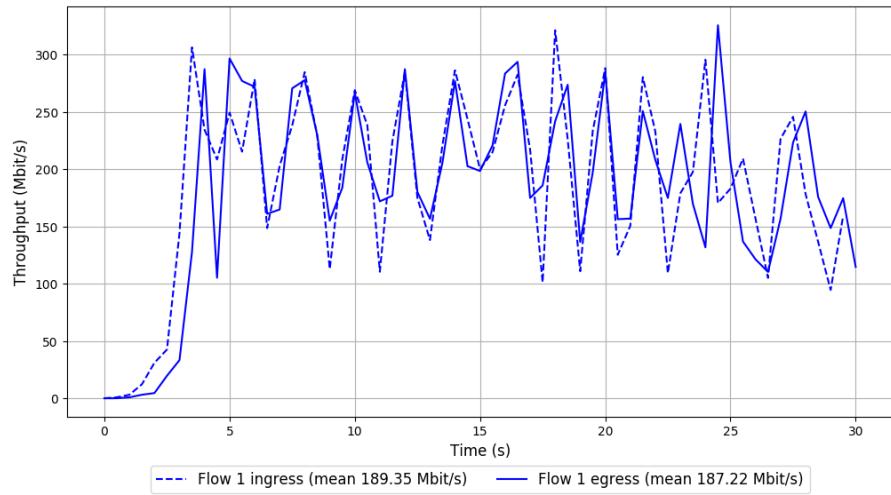


Run 4: Statistics of Verus

```
Start at: 2019-01-21 17:21:16
End at: 2019-01-21 17:21:46
Local clock offset: 0.114 ms
Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2019-01-21 20:33:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.22 Mbit/s
95th percentile per-packet one-way delay: 241.907 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 187.22 Mbit/s
95th percentile per-packet one-way delay: 241.907 ms
Loss rate: 0.95%
```

## Run 4: Report of Verus — Data Link

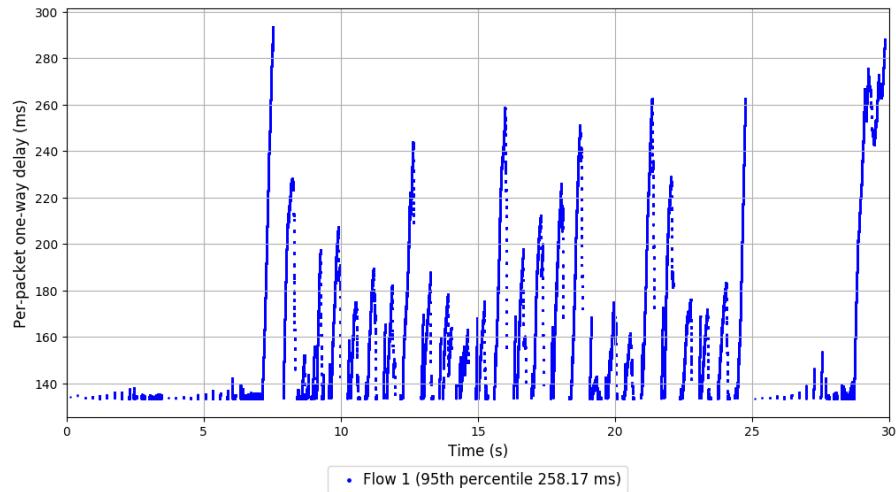
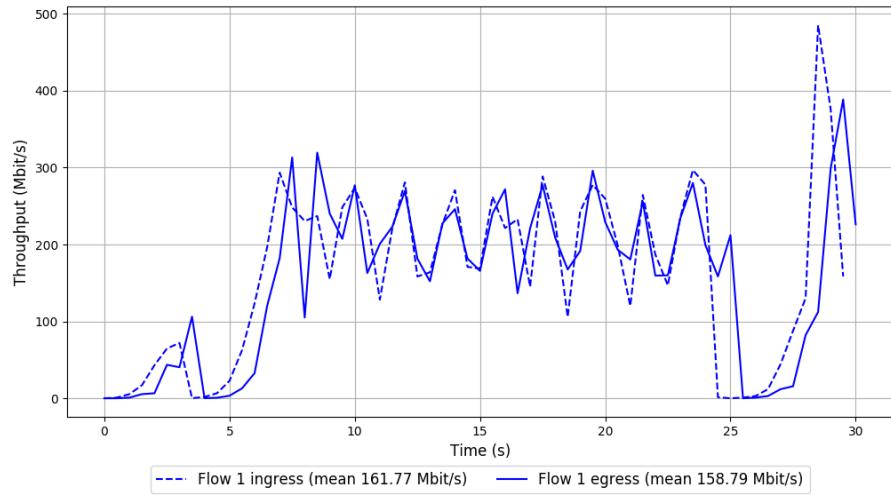


Run 5: Statistics of Verus

```
Start at: 2019-01-21 17:54:30
End at: 2019-01-21 17:55:00
Local clock offset: -0.606 ms
Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2019-01-21 20:33:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 158.79 Mbit/s
95th percentile per-packet one-way delay: 258.167 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 158.79 Mbit/s
95th percentile per-packet one-way delay: 258.167 ms
Loss rate: 1.84%
```

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

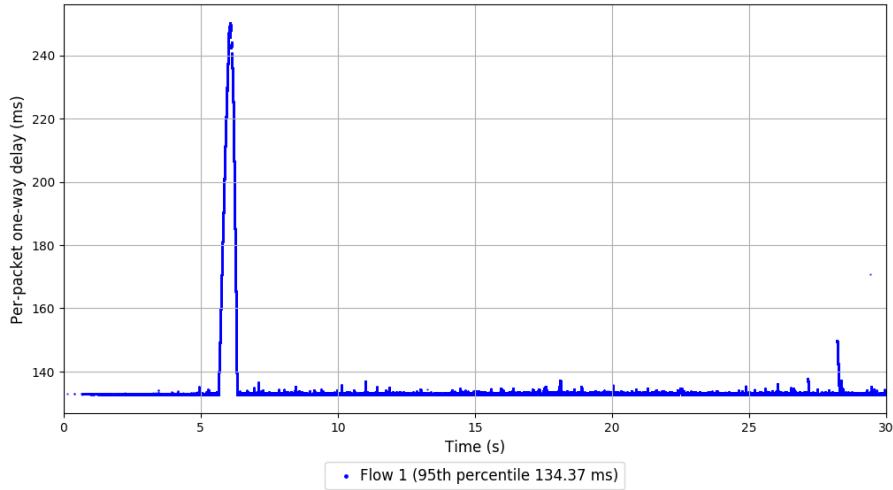
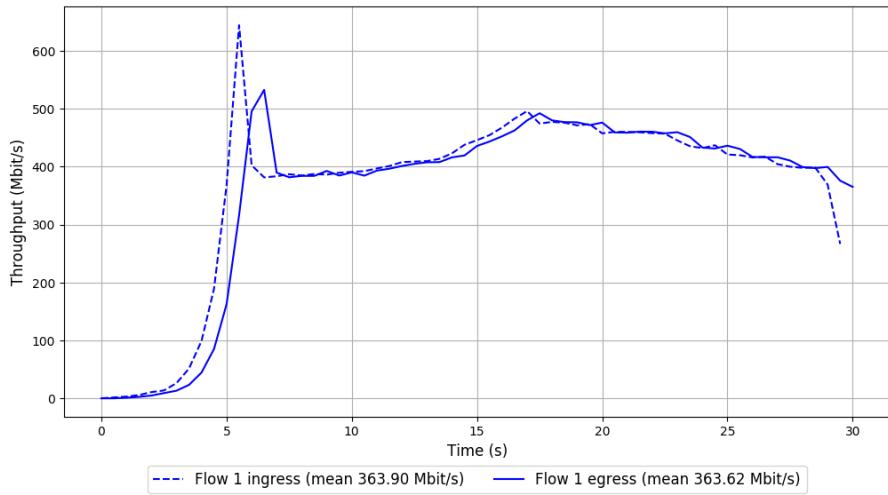


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-21 15:51:48
End at: 2019-01-21 15:52:18
Local clock offset: -0.077 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2019-01-21 20:35:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 363.62 Mbit/s
95th percentile per-packet one-way delay: 134.369 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 363.62 Mbit/s
95th percentile per-packet one-way delay: 134.369 ms
Loss rate: 0.08%
```

Run 1: Report of PCC-Vivace — Data Link

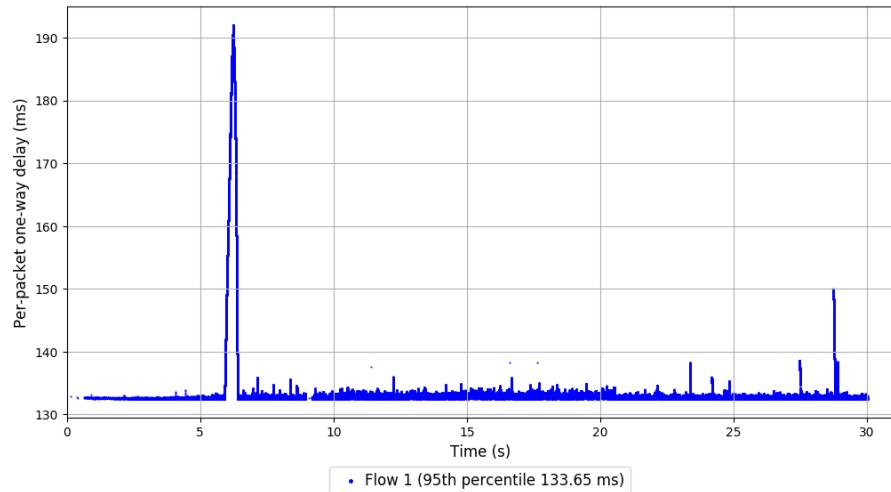
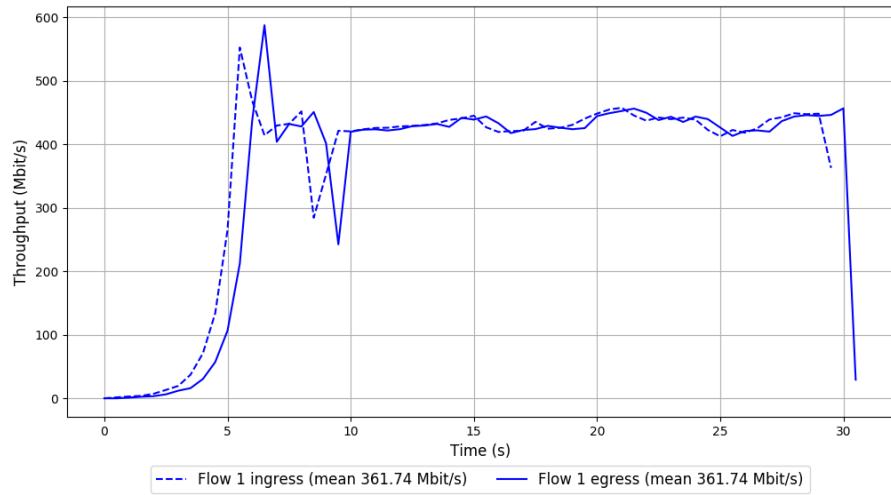


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-21 16:24:46
End at: 2019-01-21 16:25:16
Local clock offset: 0.151 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-01-21 20:36:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 361.74 Mbit/s
95th percentile per-packet one-way delay: 133.646 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 361.74 Mbit/s
95th percentile per-packet one-way delay: 133.646 ms
Loss rate: 0.00%
```

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

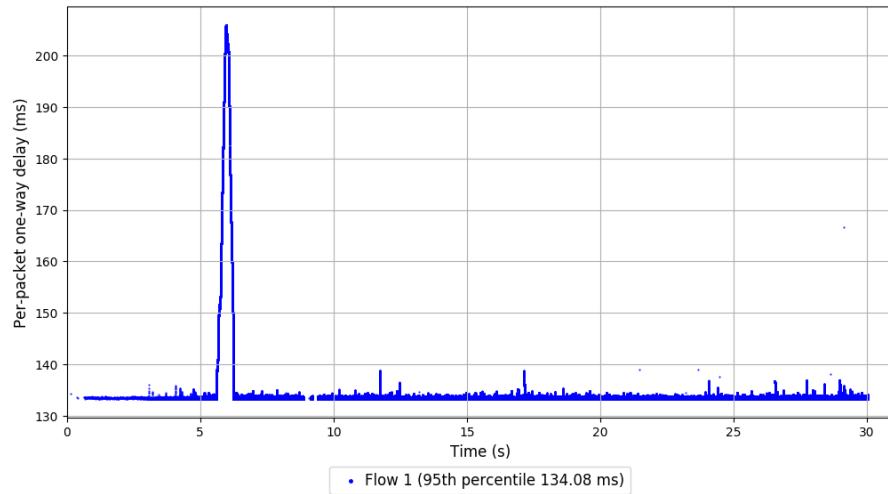
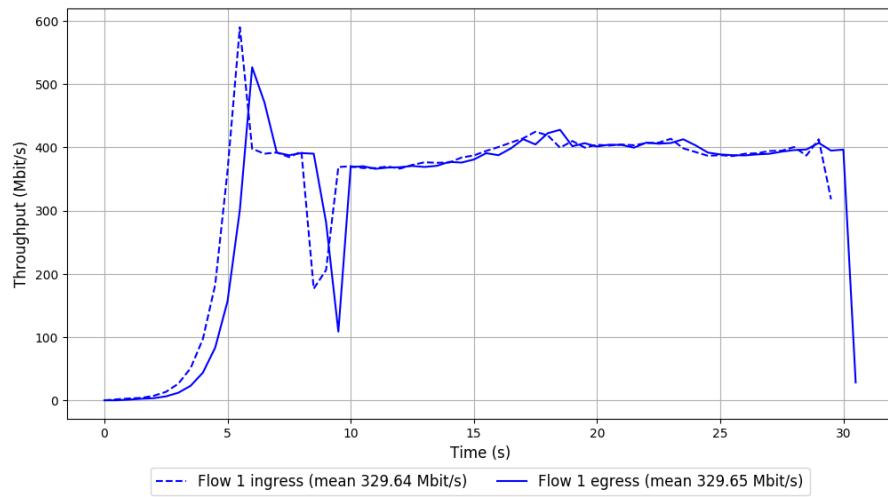


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-21 16:57:57
End at: 2019-01-21 16:58:27
Local clock offset: -0.553 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-01-21 20:36:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 329.65 Mbit/s
95th percentile per-packet one-way delay: 134.079 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 329.65 Mbit/s
95th percentile per-packet one-way delay: 134.079 ms
Loss rate: 0.00%
```

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

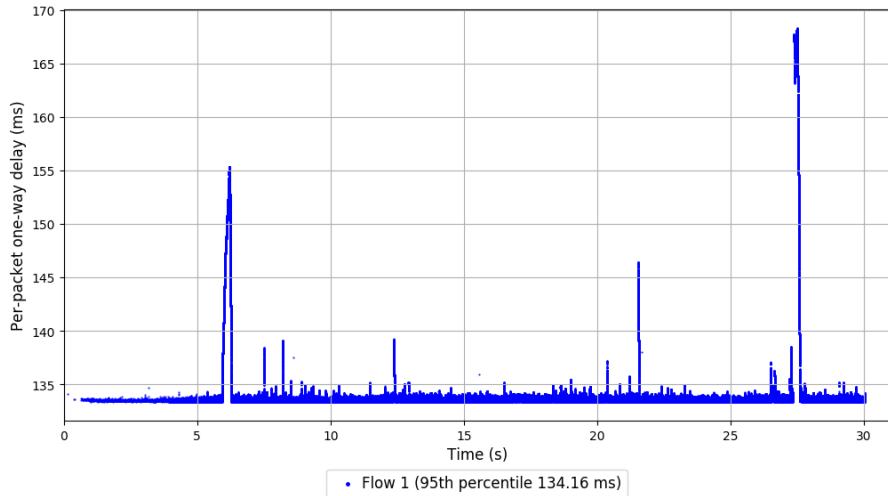
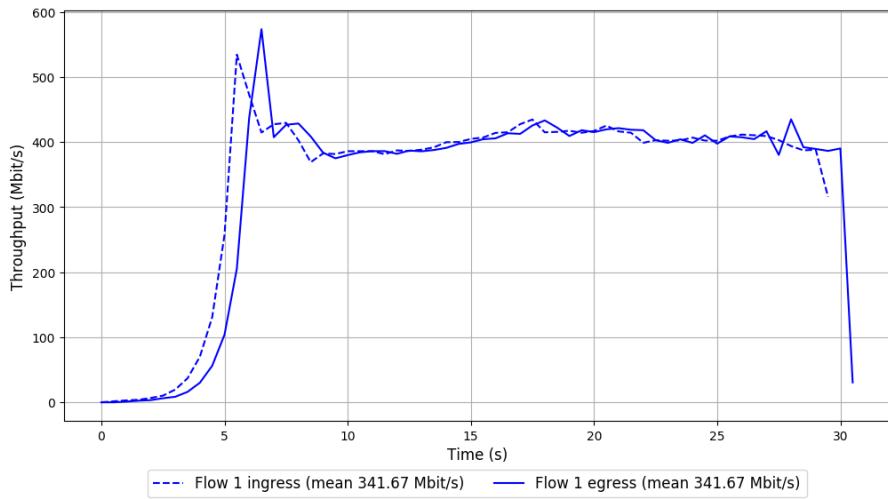


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-21 17:31:33
End at: 2019-01-21 17:32:03
Local clock offset: -0.59 ms
Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2019-01-21 20:36:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.67 Mbit/s
95th percentile per-packet one-way delay: 134.158 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 341.67 Mbit/s
95th percentile per-packet one-way delay: 134.158 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

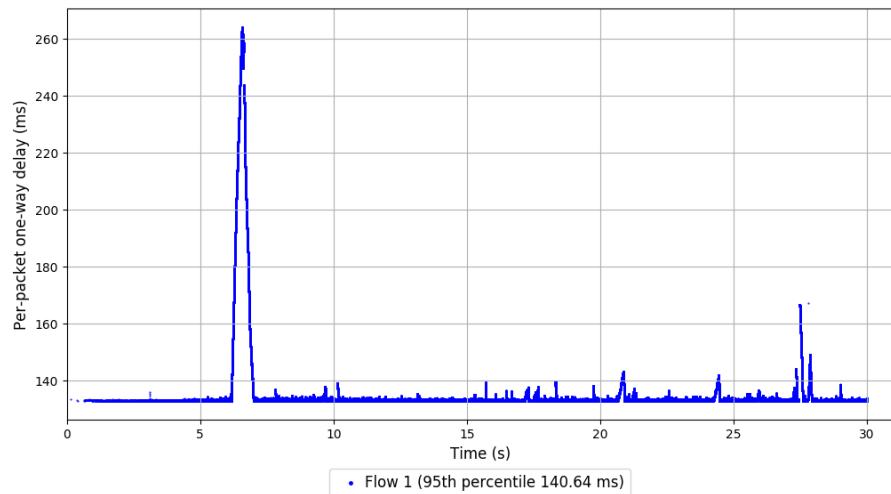
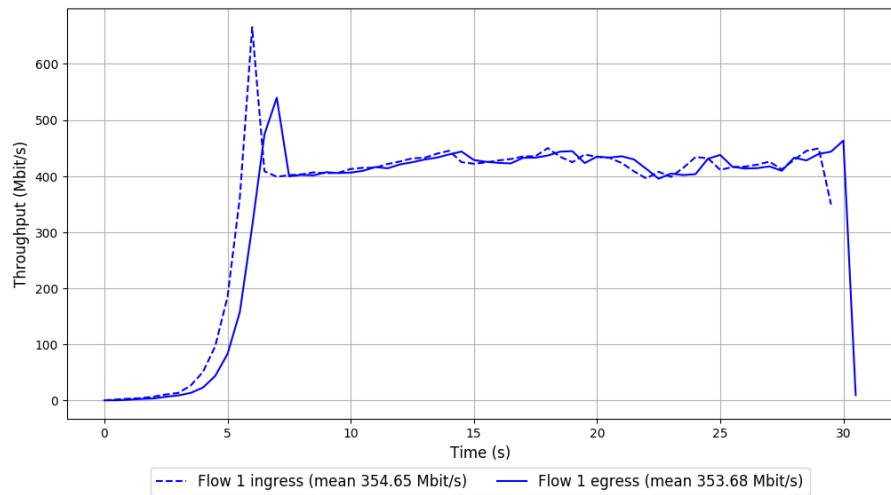


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-21 18:03:57
End at: 2019-01-21 18:04:27
Local clock offset: -0.242 ms
Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2019-01-21 20:36:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.68 Mbit/s
95th percentile per-packet one-way delay: 140.639 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 353.68 Mbit/s
95th percentile per-packet one-way delay: 140.639 ms
Loss rate: 0.28%
```

Run 5: Report of PCC-Vivace — Data Link

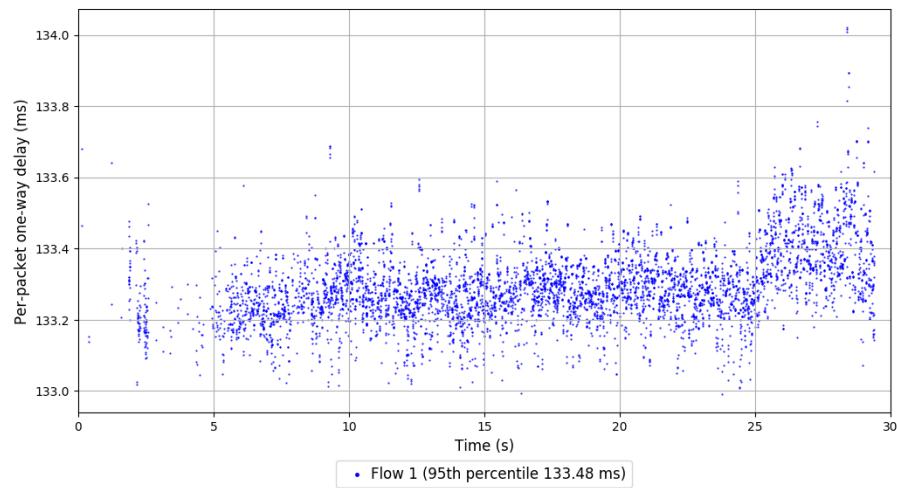
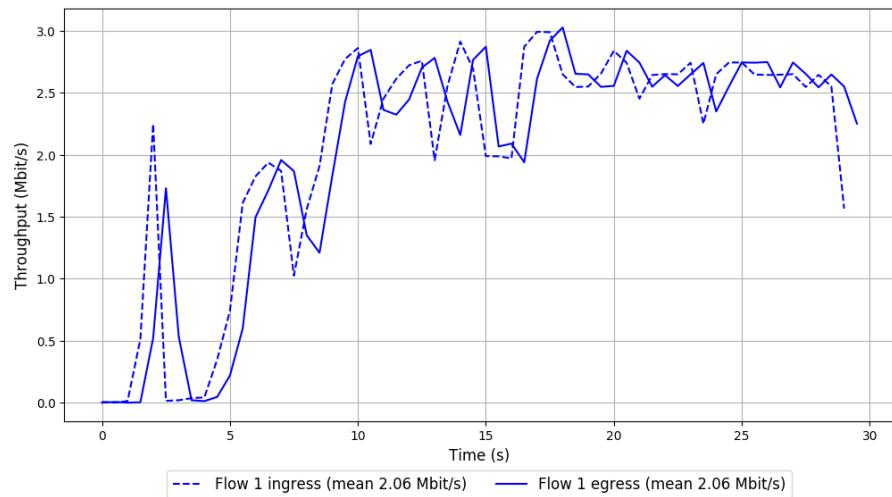


Run 1: Statistics of WebRTC media

```
Start at: 2019-01-21 16:08:57
End at: 2019-01-21 16:09:27
Local clock offset: 0.017 ms
Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-01-21 20:36:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 133.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 133.483 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

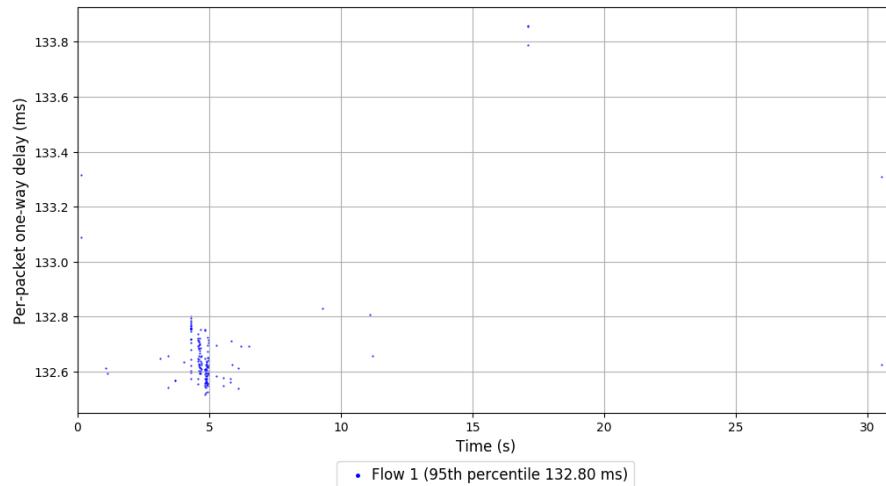
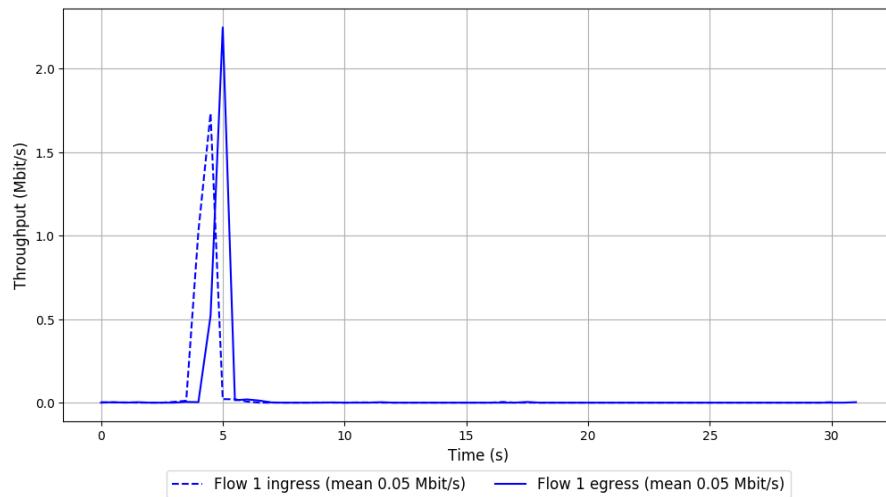


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-21 16:42:13
End at: 2019-01-21 16:42:43
Local clock offset: 0.276 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-01-21 20:36:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.801 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.801 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

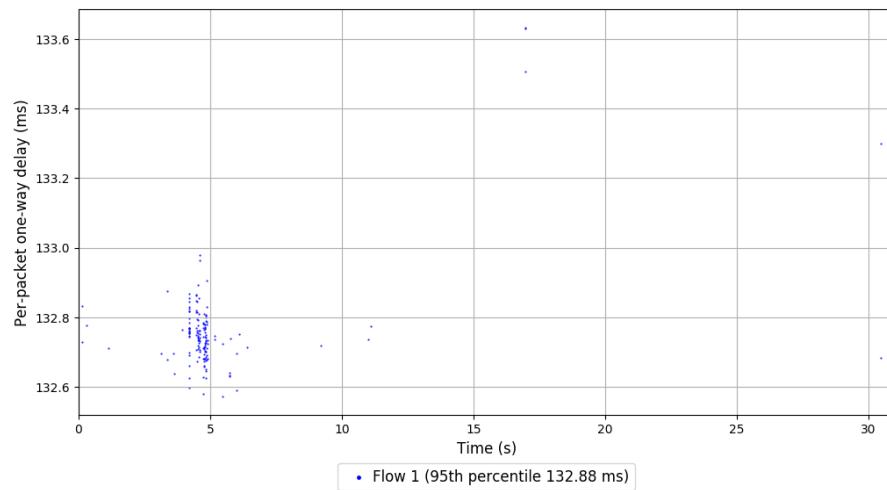
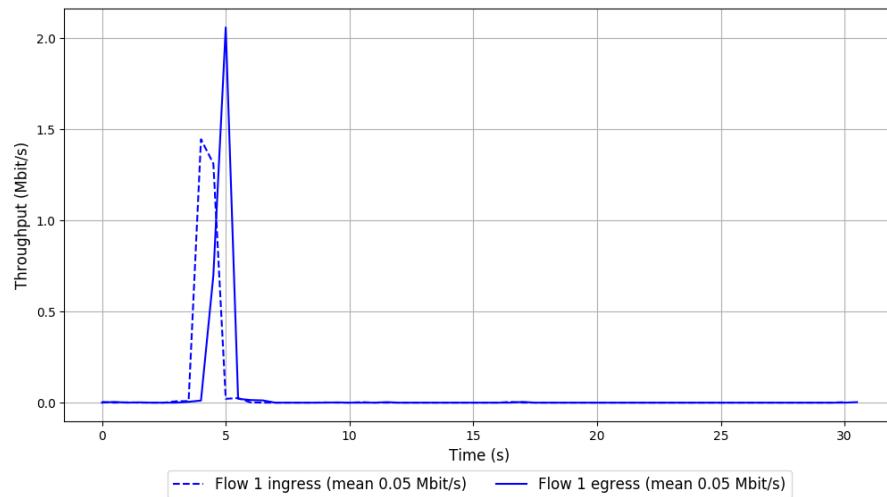


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-21 17:15:33
End at: 2019-01-21 17:16:03
Local clock offset: 0.233 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-01-21 20:36:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.875 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

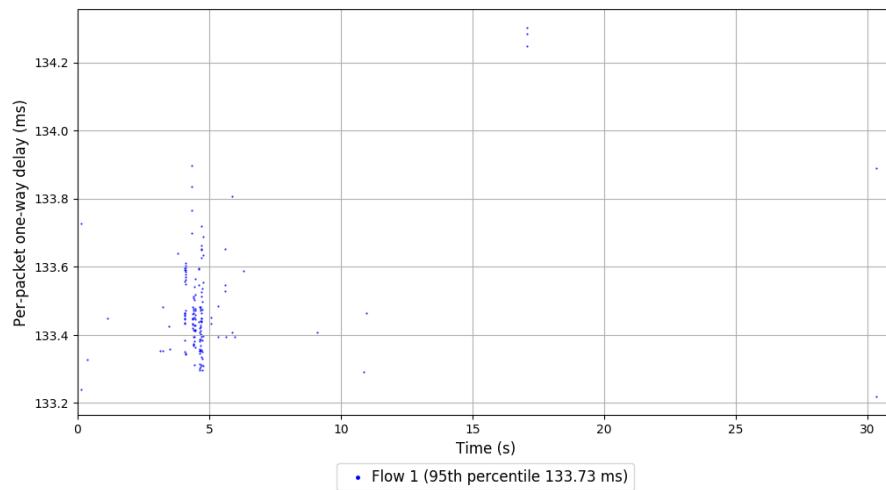
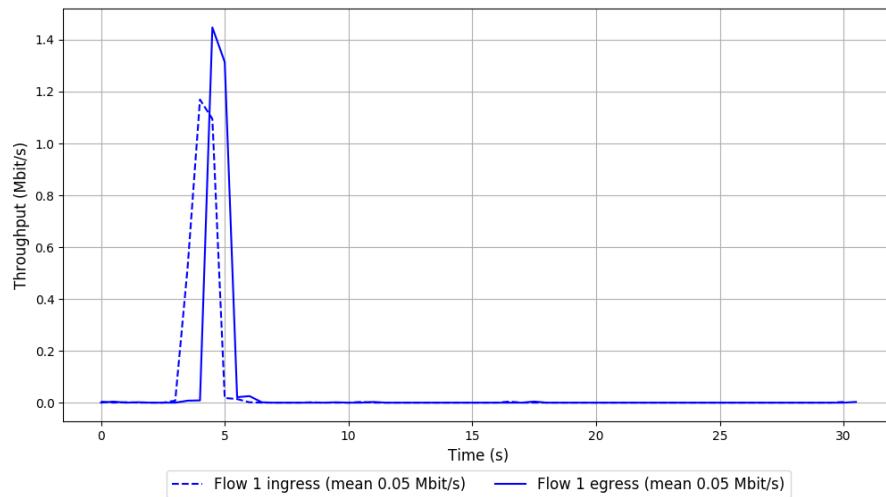


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-21 17:48:42
End at: 2019-01-21 17:49:12
Local clock offset: -0.191 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-01-21 20:36:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.727 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-21 18:20:57
End at: 2019-01-21 18:21:27
Local clock offset: -0.56 ms
Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-01-21 20:36:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 133.647 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 133.647 ms
Loss rate: 0.00%
```

### Run 5: Report of WebRTC media — Data Link

