

Pantheon Report

Generated at 2019-01-18 22:24:10 (UTC).
Data path: GCE London on `ens4` (*remote*) → GCE Tokyo on `ens4` (*local*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

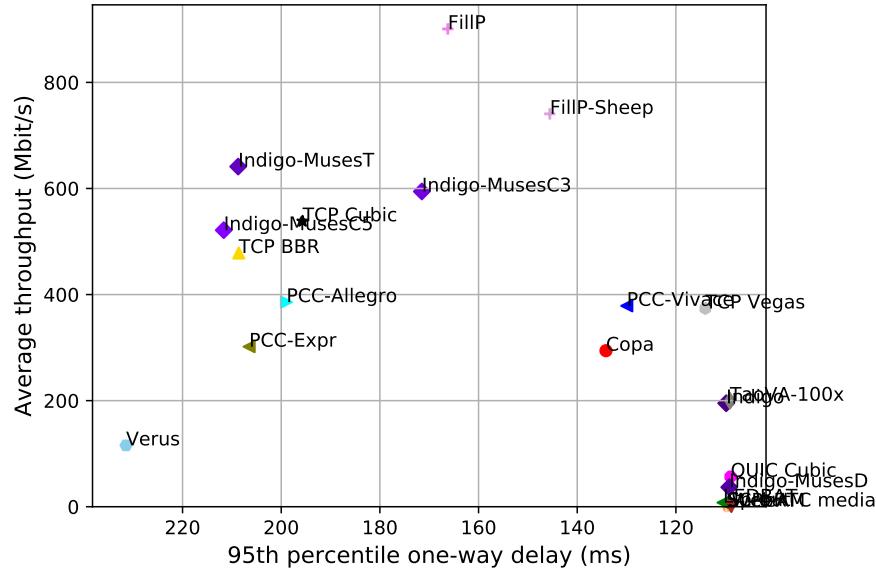
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

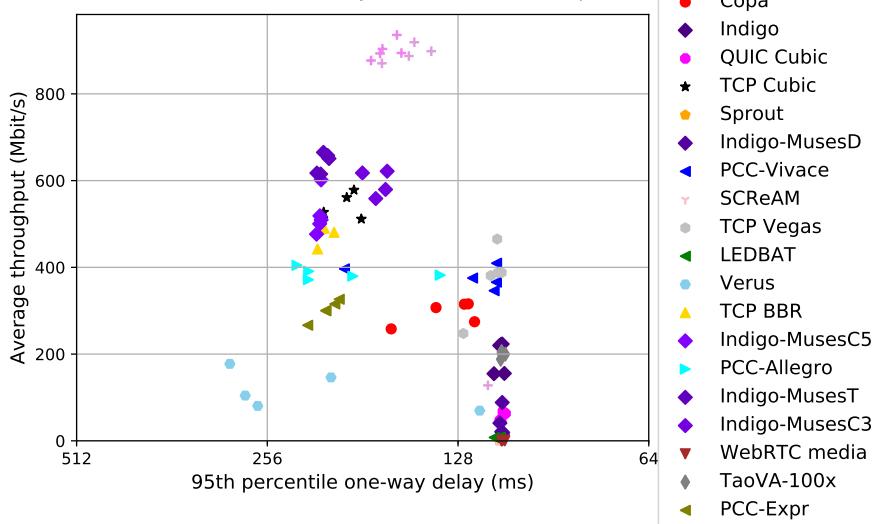
```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d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

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



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



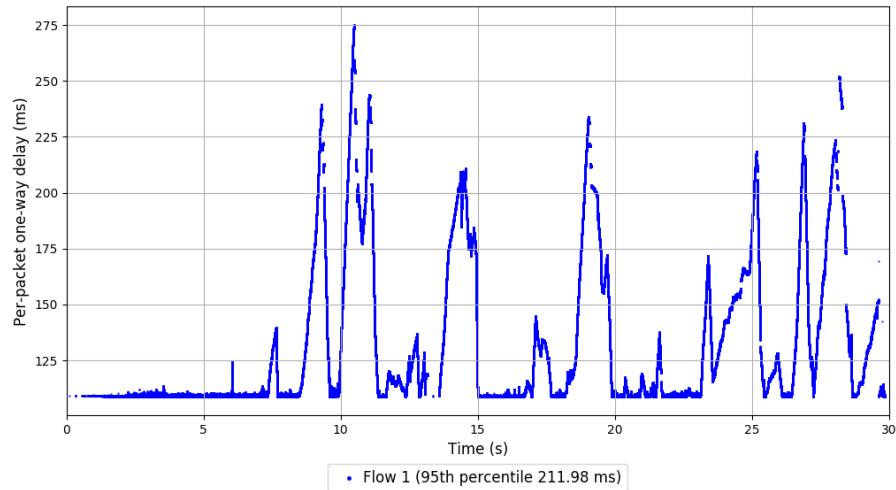
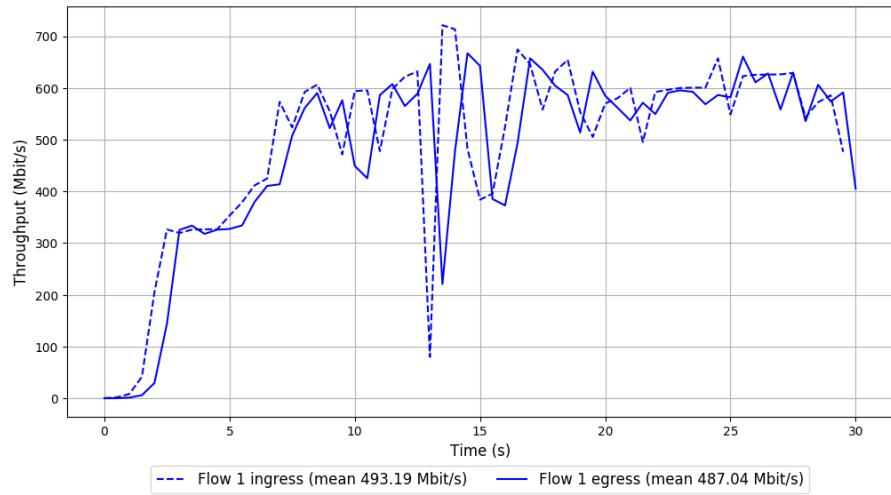
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	478.34	208.61	1.93
Copa	5	294.16	134.17	0.79
TCP Cubic	5	538.11	195.67	0.98
FillP	5	900.77	166.23	2.42
FillP-Sheep	5	740.62	145.55	1.38
Indigo	5	195.07	109.81	0.76
Indigo-MusesC3	4	594.36	171.50	1.04
Indigo-MusesC5	5	521.38	211.65	6.79
Indigo-MusesD	5	36.78	109.19	2.38
Indigo-MusesT	5	641.28	208.73	6.58
LEDBAT	5	7.77	110.44	1.46
PCC-Allegro	5	385.75	198.94	4.05
PCC-Expr	5	301.75	206.51	3.16
QUIC Cubic	5	56.56	108.91	1.22
SCReAM	5	0.22	109.78	0.74
Sprout	5	1.28	109.47	1.24
TaoVA-100x	5	199.76	109.06	0.77
TCP Vegas	5	373.86	114.04	0.75
Verus	5	115.67	231.46	11.22
PCC-Vivace	5	378.71	129.96	1.32
WebRTC media	5	0.40	108.76	0.24

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-18 17:35:59
End at: 2019-01-18 17:36:29
Local clock offset: 6.148 ms
Remote clock offset: 6.094 ms

# Below is generated by plot.py at 2019-01-18 20:32:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 487.04 Mbit/s
95th percentile per-packet one-way delay: 211.983 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 487.04 Mbit/s
95th percentile per-packet one-way delay: 211.983 ms
Loss rate: 1.97%
```

Run 1: Report of TCP BBR — Data Link

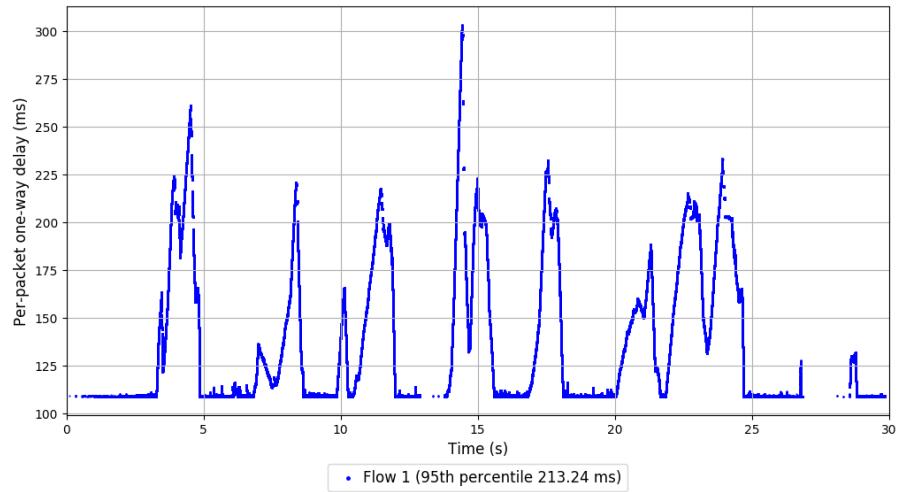
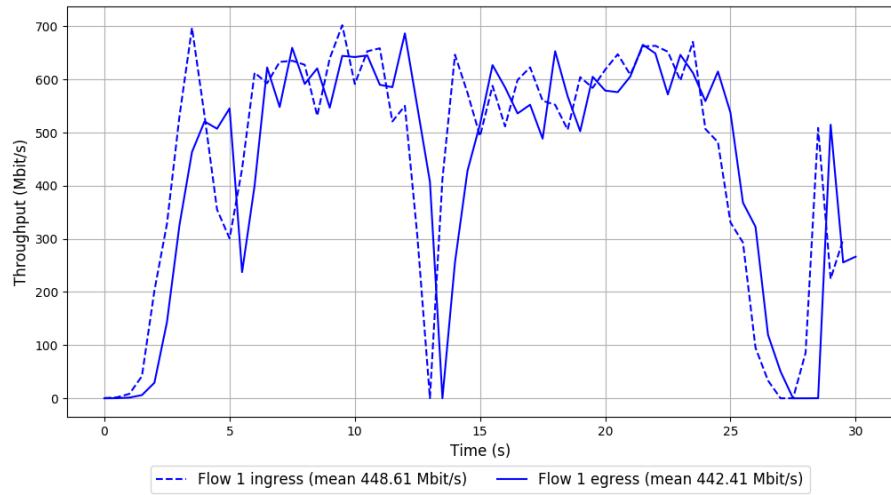


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-18 18:08:20
End at: 2019-01-18 18:08:50
Local clock offset: 21.166 ms
Remote clock offset: 19.867 ms

# Below is generated by plot.py at 2019-01-18 20:32:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 442.41 Mbit/s
95th percentile per-packet one-way delay: 213.244 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 442.41 Mbit/s
95th percentile per-packet one-way delay: 213.244 ms
Loss rate: 2.10%
```

Run 2: Report of TCP BBR — Data Link

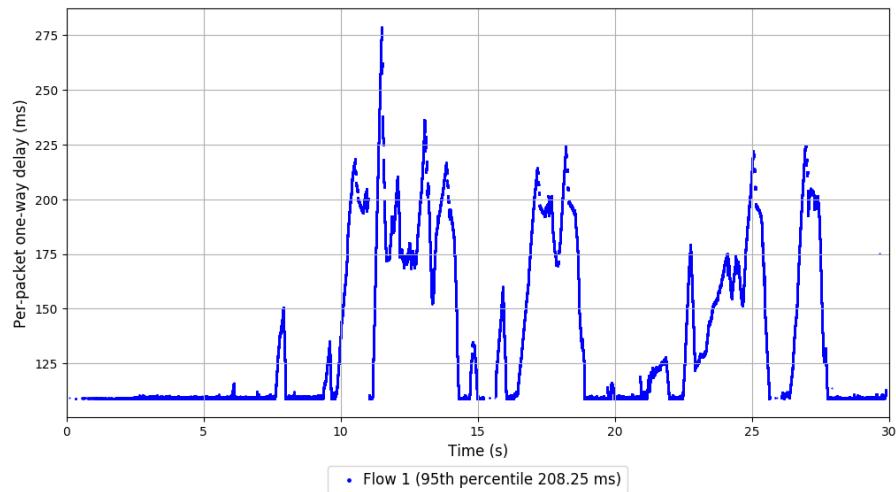
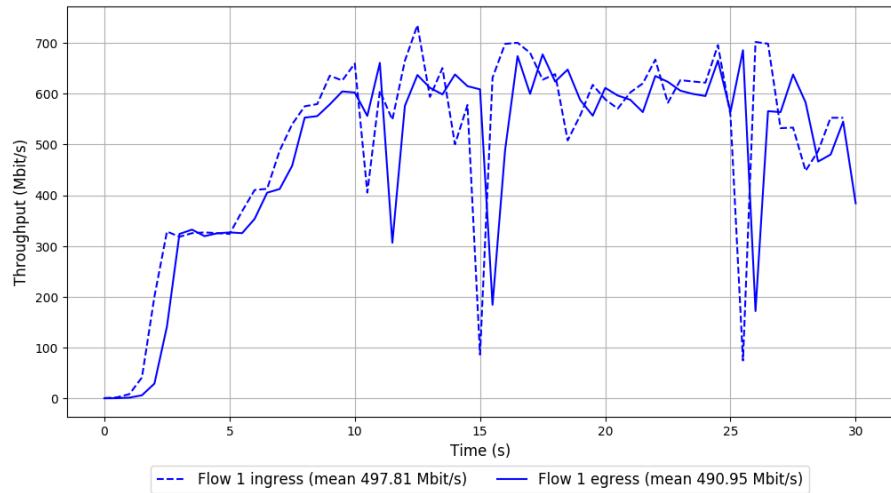


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-18 18:39:49
End at: 2019-01-18 18:40:19
Local clock offset: 34.131 ms
Remote clock offset: 31.521 ms

# Below is generated by plot.py at 2019-01-18 20:32:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 490.95 Mbit/s
95th percentile per-packet one-way delay: 208.254 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 490.95 Mbit/s
95th percentile per-packet one-way delay: 208.254 ms
Loss rate: 2.10%
```

Run 3: Report of TCP BBR — Data Link

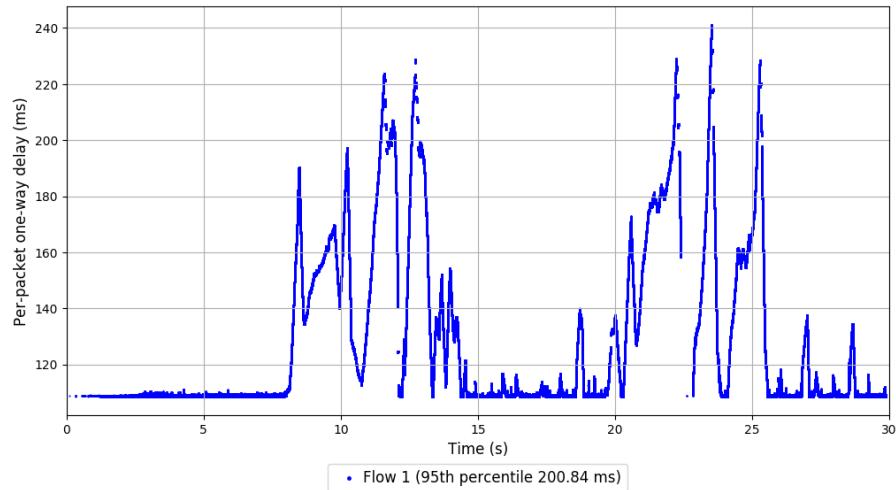
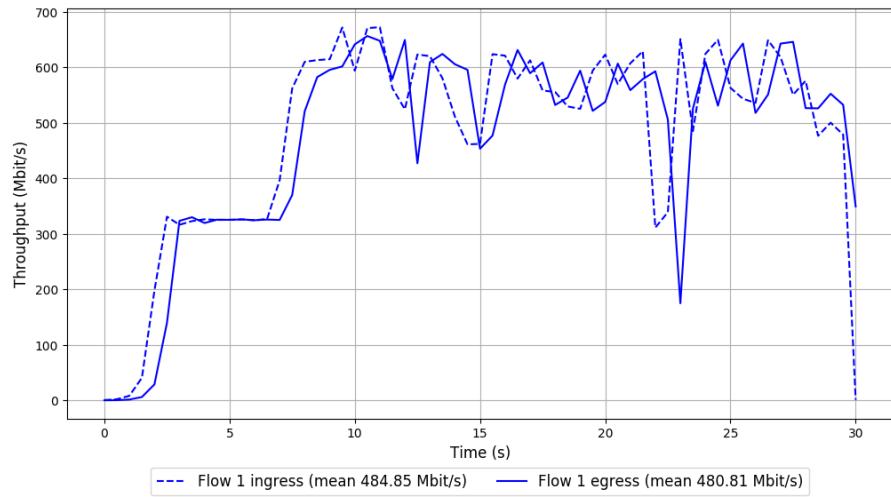


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-18 19:12:03
End at: 2019-01-18 19:12:33
Local clock offset: 19.901 ms
Remote clock offset: 18.836 ms

# Below is generated by plot.py at 2019-01-18 20:32:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 480.81 Mbit/s
95th percentile per-packet one-way delay: 200.837 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 480.81 Mbit/s
95th percentile per-packet one-way delay: 200.837 ms
Loss rate: 1.56%
```

Run 4: Report of TCP BBR — Data Link

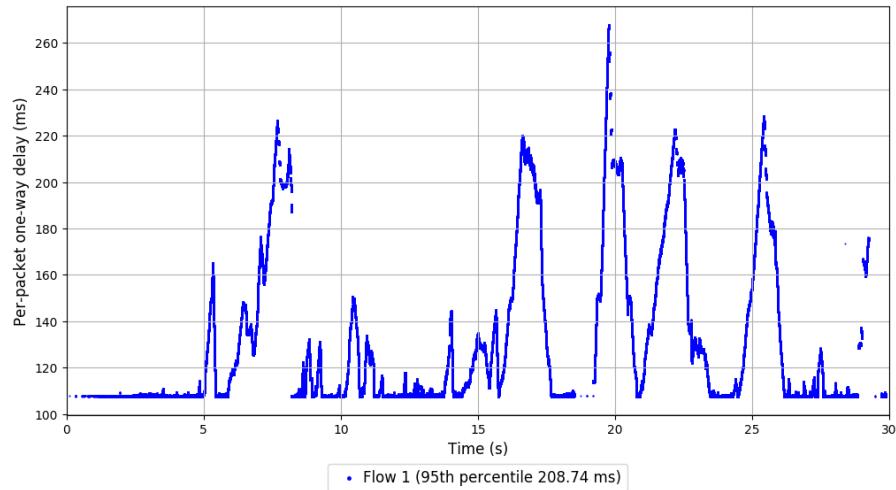
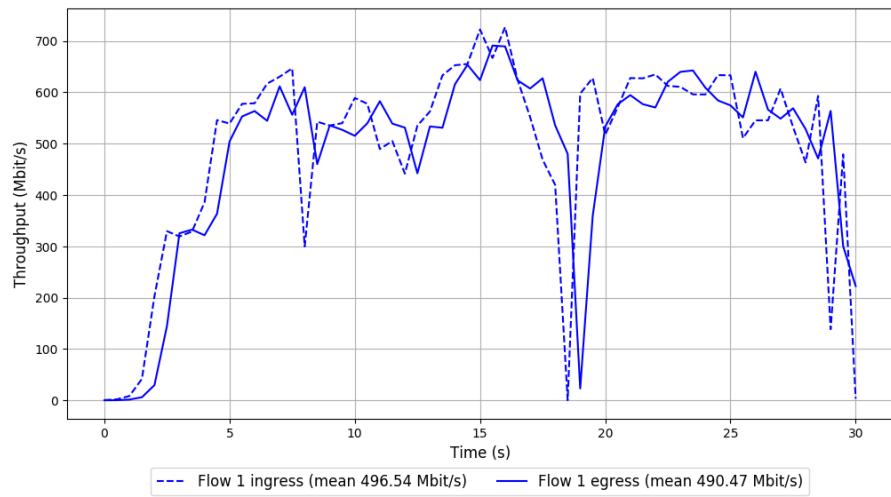


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-18 19:43:54
End at: 2019-01-18 19:44:24
Local clock offset: 8.81 ms
Remote clock offset: 8.997 ms

# Below is generated by plot.py at 2019-01-18 20:32:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 490.47 Mbit/s
95th percentile per-packet one-way delay: 208.739 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 490.47 Mbit/s
95th percentile per-packet one-way delay: 208.739 ms
Loss rate: 1.94%
```

Run 5: Report of TCP BBR — Data Link

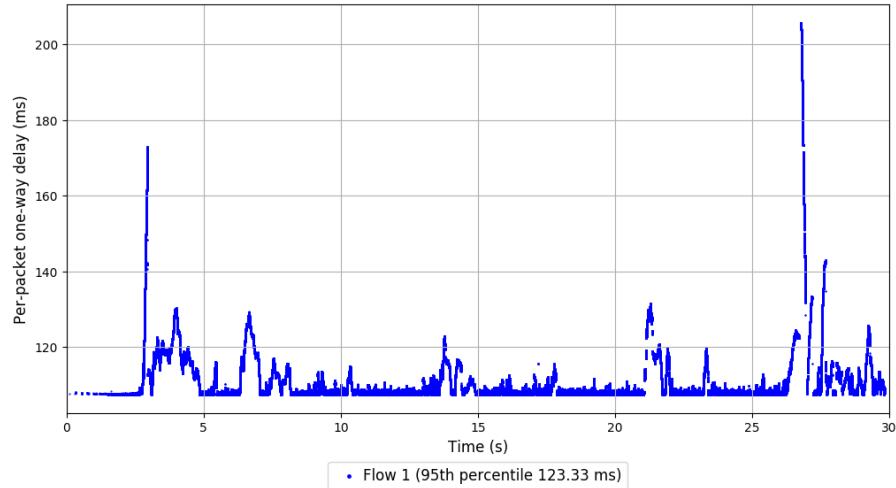
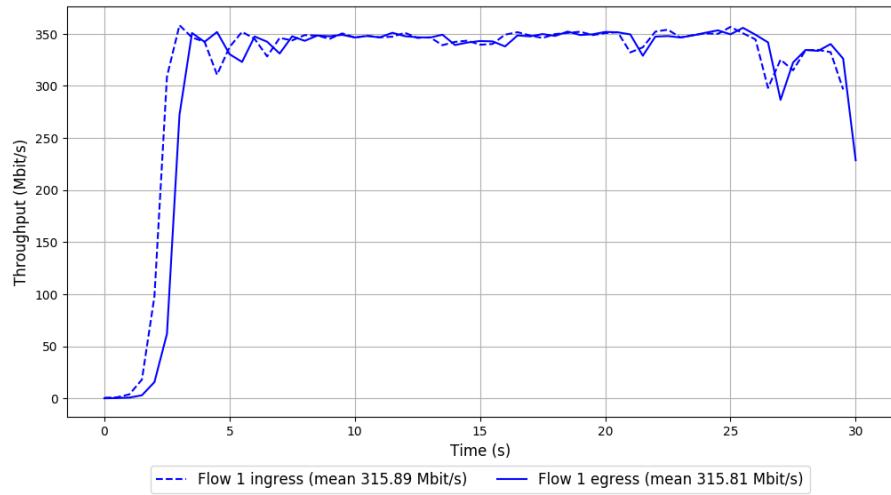


Run 1: Statistics of Copa

```
Start at: 2019-01-18 17:44:25
End at: 2019-01-18 17:44:55
Local clock offset: 11.57 ms
Remote clock offset: 12.178 ms

# Below is generated by plot.py at 2019-01-18 20:33:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.81 Mbit/s
95th percentile per-packet one-way delay: 123.327 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 315.81 Mbit/s
95th percentile per-packet one-way delay: 123.327 ms
Loss rate: 0.76%
```

Run 1: Report of Copa — Data Link

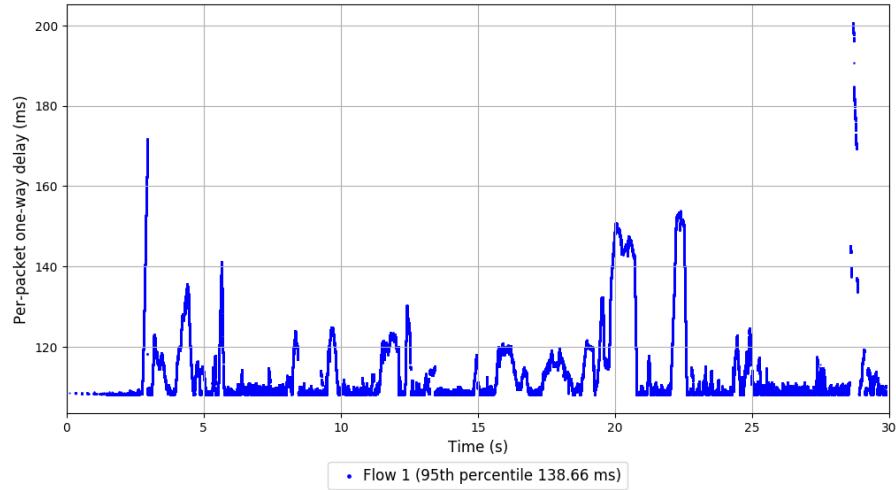
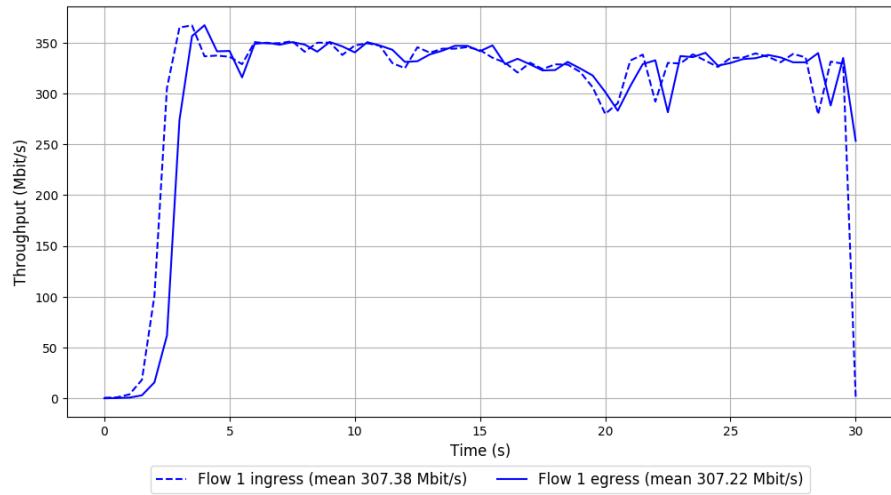


Run 2: Statistics of Copa

```
Start at: 2019-01-18 18:16:43
End at: 2019-01-18 18:17:13
Local clock offset: 21.009 ms
Remote clock offset: 19.433 ms

# Below is generated by plot.py at 2019-01-18 20:33:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 307.22 Mbit/s
95th percentile per-packet one-way delay: 138.662 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 307.22 Mbit/s
95th percentile per-packet one-way delay: 138.662 ms
Loss rate: 0.78%
```

Run 2: Report of Copa — Data Link

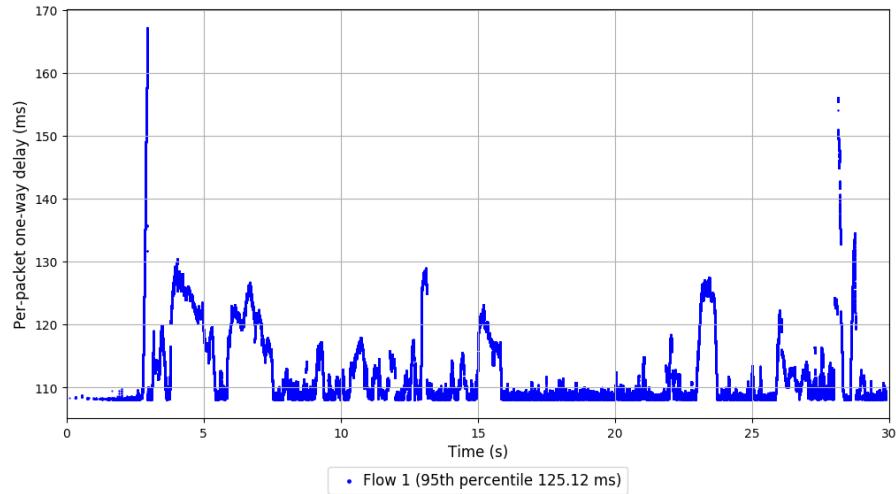
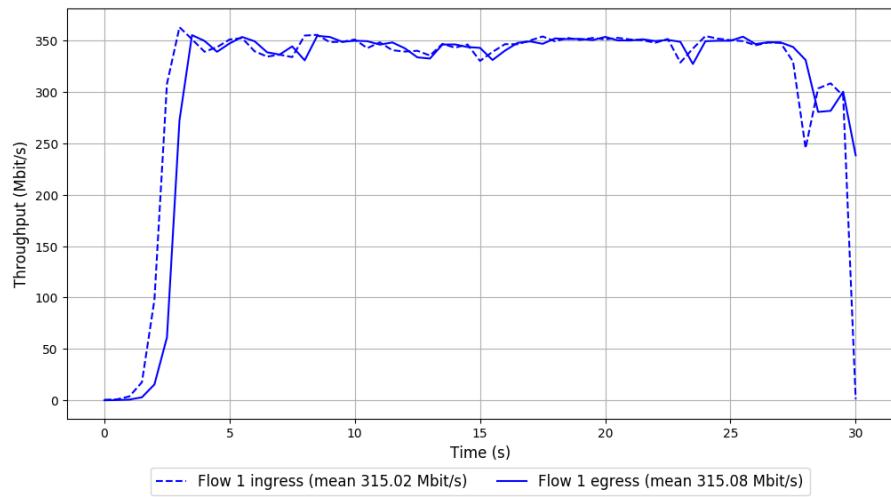


Run 3: Statistics of Copa

```
Start at: 2019-01-18 18:48:34
End at: 2019-01-18 18:49:04
Local clock offset: 17.662 ms
Remote clock offset: 16.594 ms

# Below is generated by plot.py at 2019-01-18 20:34:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.08 Mbit/s
95th percentile per-packet one-way delay: 125.125 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 315.08 Mbit/s
95th percentile per-packet one-way delay: 125.125 ms
Loss rate: 0.71%
```

Run 3: Report of Copa — Data Link

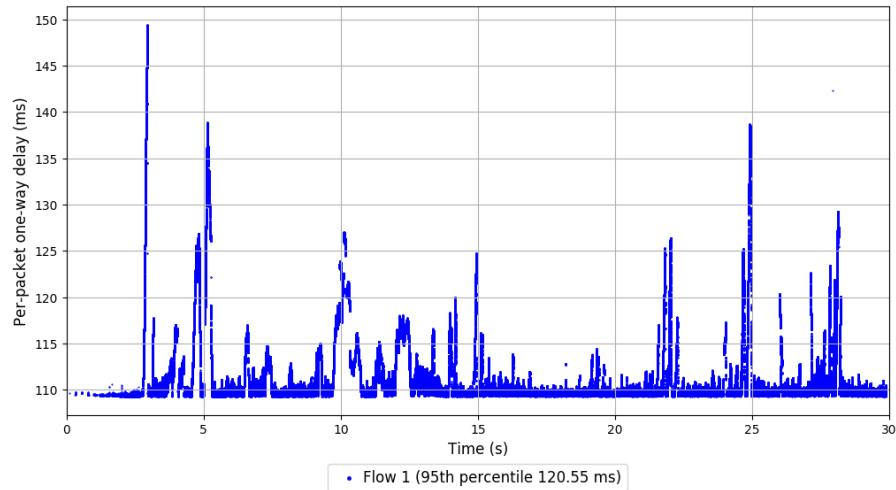
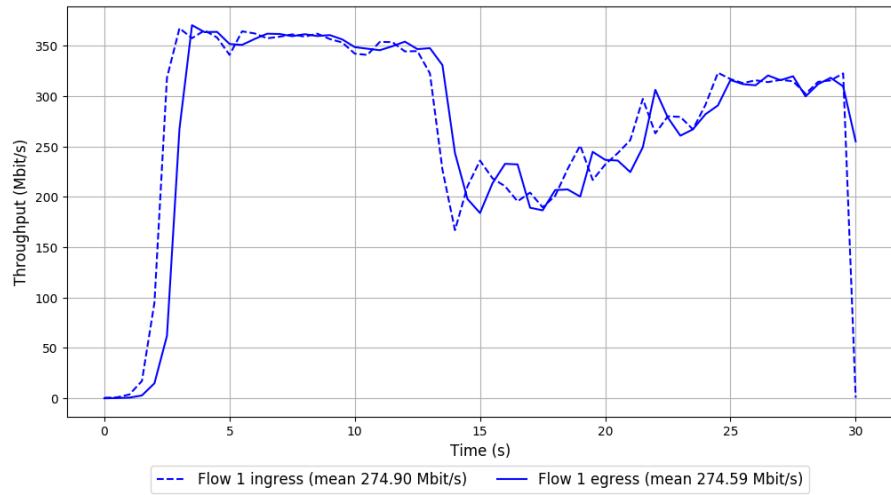


Run 4: Statistics of Copa

```
Start at: 2019-01-18 19:20:34
End at: 2019-01-18 19:21:04
Local clock offset: 10.138 ms
Remote clock offset: 9.277 ms

# Below is generated by plot.py at 2019-01-18 20:42:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 274.59 Mbit/s
95th percentile per-packet one-way delay: 120.547 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 274.59 Mbit/s
95th percentile per-packet one-way delay: 120.547 ms
Loss rate: 0.85%
```

Run 4: Report of Copa — Data Link

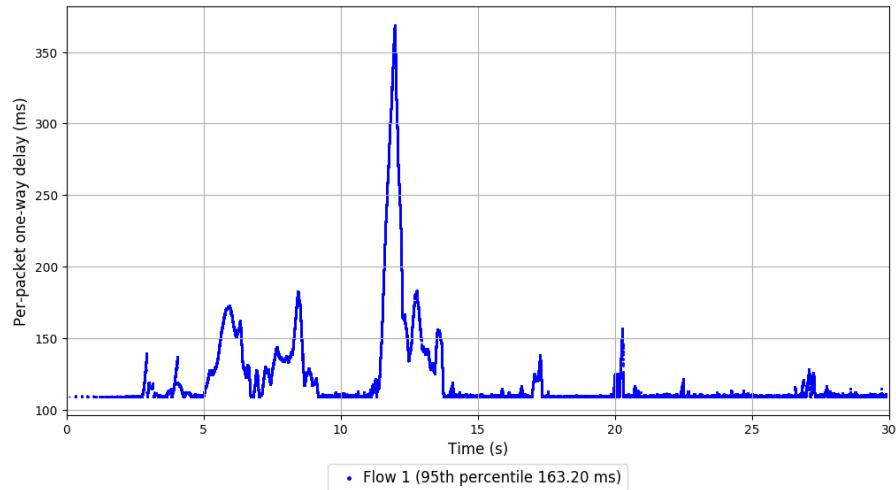
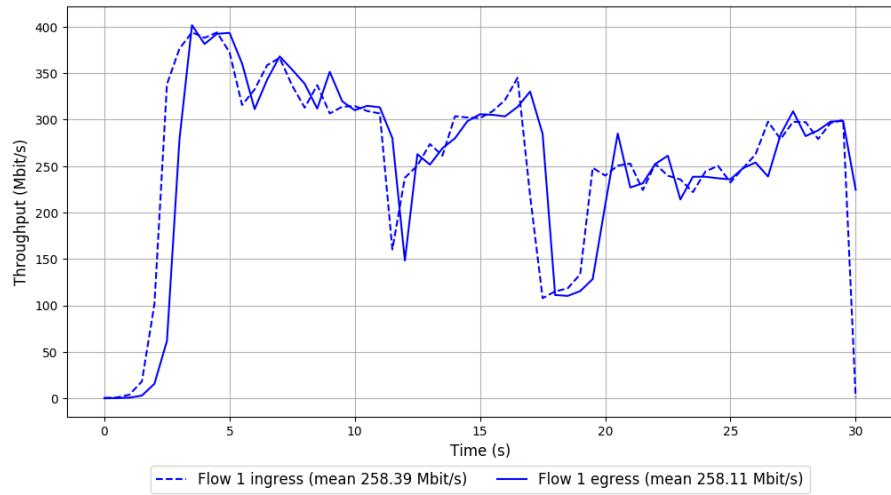


Run 5: Statistics of Copa

```
Start at: 2019-01-18 19:52:33
End at: 2019-01-18 19:53:03
Local clock offset: 5.243 ms
Remote clock offset: 5.23 ms

# Below is generated by plot.py at 2019-01-18 20:42:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 258.11 Mbit/s
95th percentile per-packet one-way delay: 163.197 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 258.11 Mbit/s
95th percentile per-packet one-way delay: 163.197 ms
Loss rate: 0.84%
```

Run 5: Report of Copa — Data Link

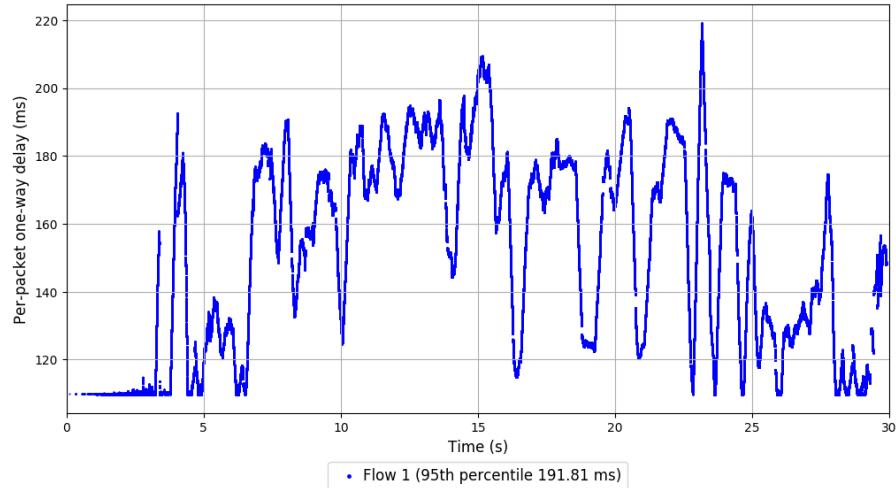
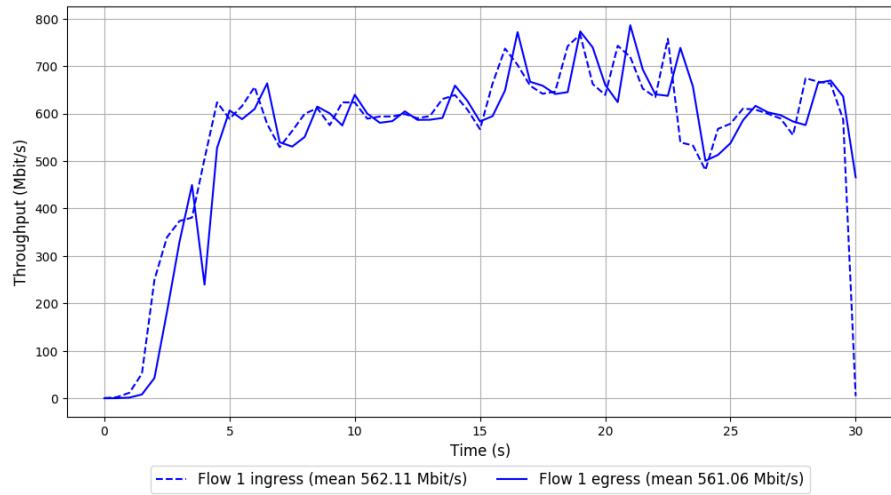


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-18 17:55:46
End at: 2019-01-18 17:56:16
Local clock offset: 16.678 ms
Remote clock offset: 14.962 ms

# Below is generated by plot.py at 2019-01-18 20:44:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 561.06 Mbit/s
95th percentile per-packet one-way delay: 191.808 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 561.06 Mbit/s
95th percentile per-packet one-way delay: 191.808 ms
Loss rate: 0.91%
```

Run 1: Report of TCP Cubic — Data Link

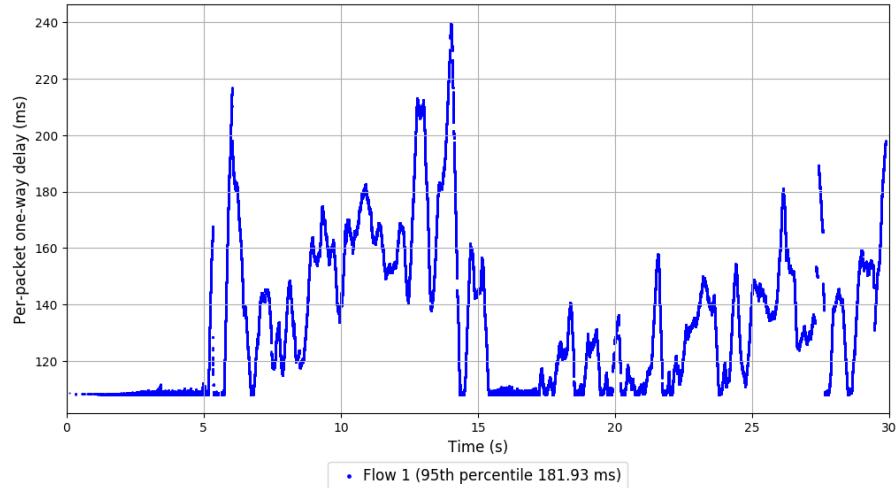
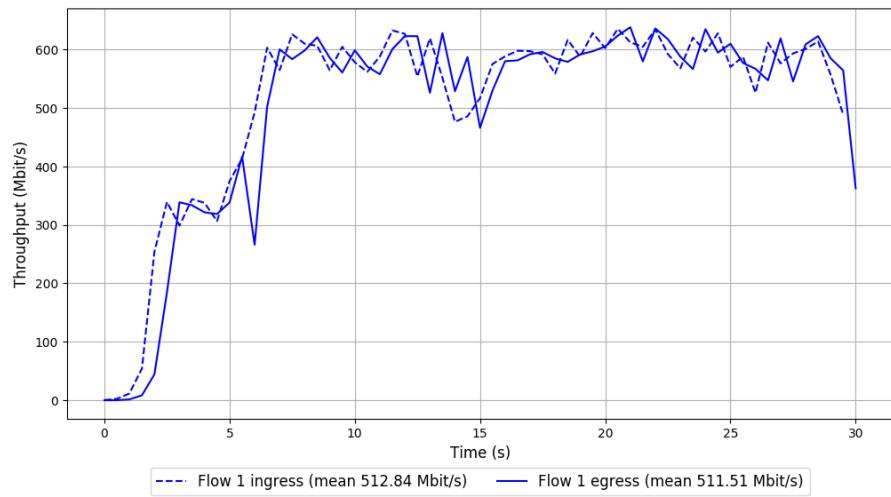


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-18 18:27:21
End at: 2019-01-18 18:27:51
Local clock offset: 29.186 ms
Remote clock offset: 27.021 ms

# Below is generated by plot.py at 2019-01-18 20:44:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 511.51 Mbit/s
95th percentile per-packet one-way delay: 181.926 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 511.51 Mbit/s
95th percentile per-packet one-way delay: 181.926 ms
Loss rate: 0.98%
```

Run 2: Report of TCP Cubic — Data Link

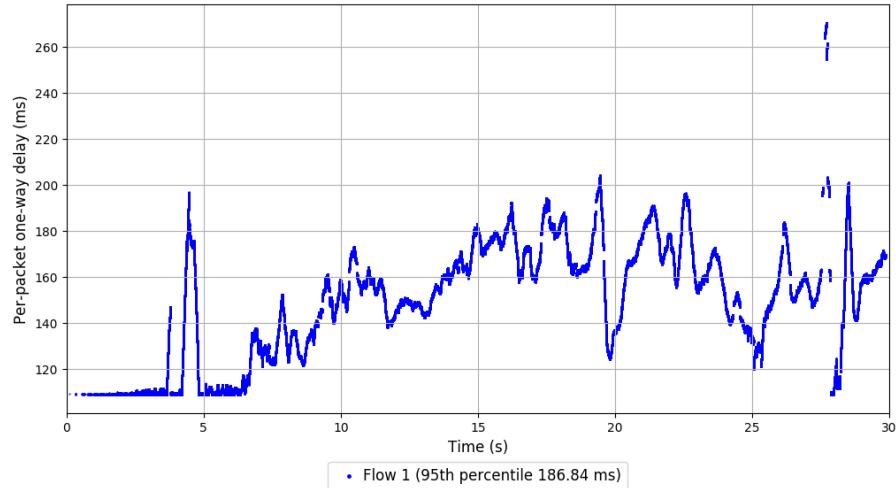
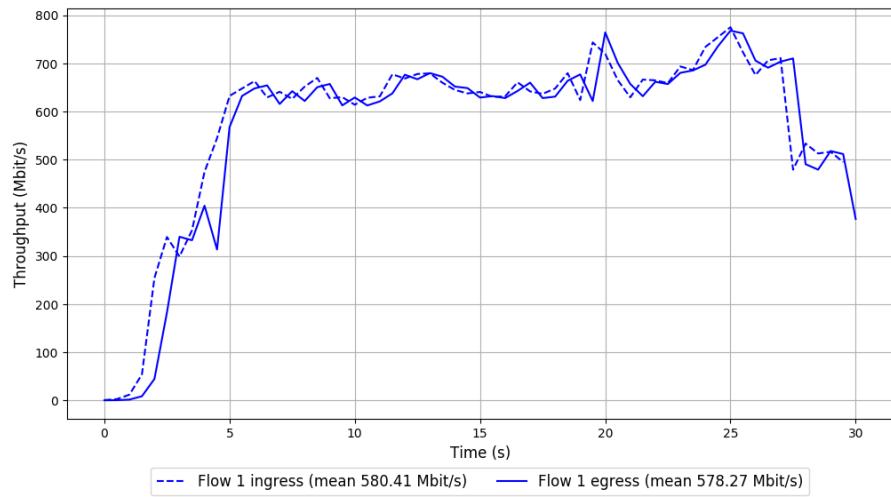


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-18 18:59:36
End at: 2019-01-18 19:00:06
Local clock offset: 16.121 ms
Remote clock offset: 14.485 ms

# Below is generated by plot.py at 2019-01-18 20:45:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 578.27 Mbit/s
95th percentile per-packet one-way delay: 186.842 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 578.27 Mbit/s
95th percentile per-packet one-way delay: 186.842 ms
Loss rate: 1.09%
```

Run 3: Report of TCP Cubic — Data Link

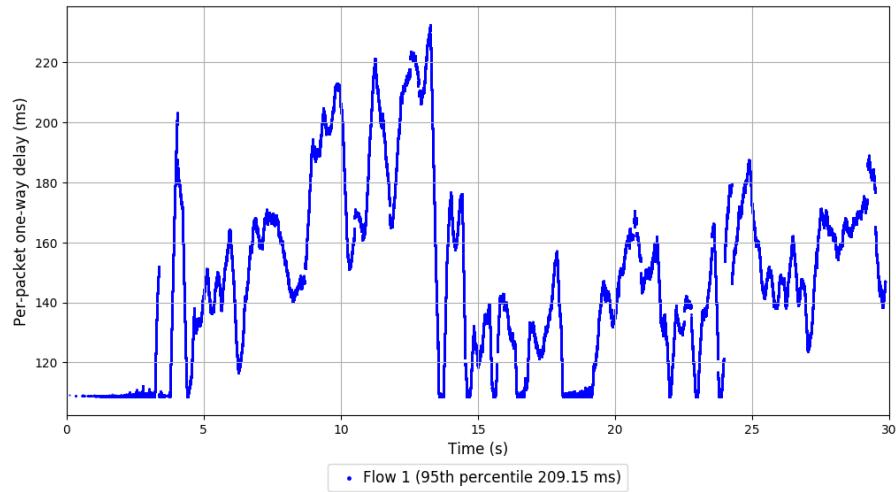
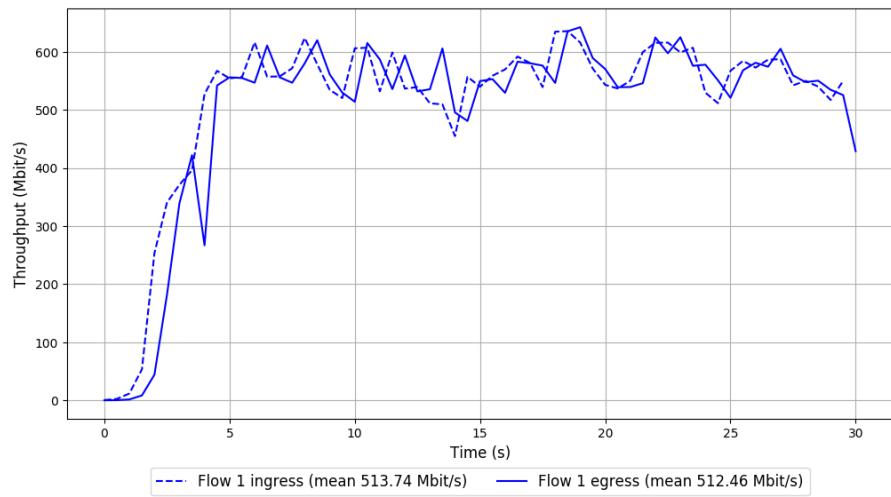


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-18 19:31:13
End at: 2019-01-18 19:31:43
Local clock offset: 7.604 ms
Remote clock offset: 6.975 ms

# Below is generated by plot.py at 2019-01-18 20:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 512.46 Mbit/s
95th percentile per-packet one-way delay: 209.149 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 512.46 Mbit/s
95th percentile per-packet one-way delay: 209.149 ms
Loss rate: 0.97%
```

Run 4: Report of TCP Cubic — Data Link

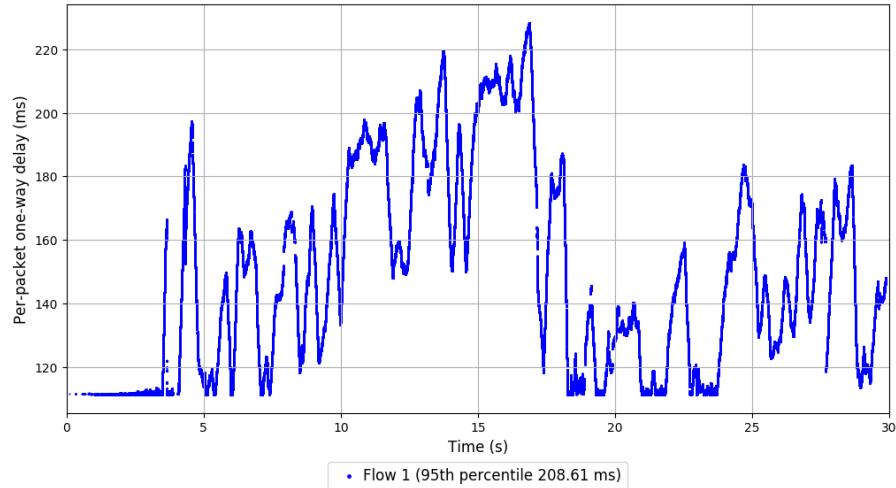
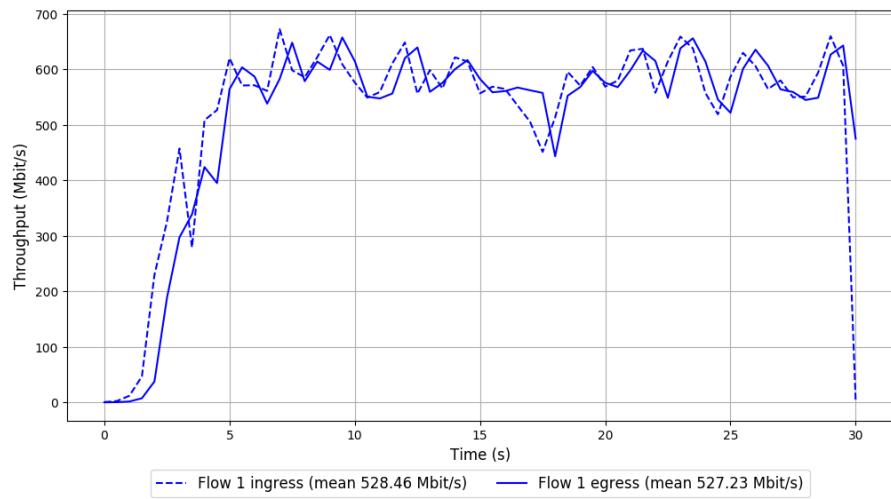


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-18 20:03:02
End at: 2019-01-18 20:03:32
Local clock offset: 2.323 ms
Remote clock offset: 3.412 ms

# Below is generated by plot.py at 2019-01-18 20:45:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 527.23 Mbit/s
95th percentile per-packet one-way delay: 208.611 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 527.23 Mbit/s
95th percentile per-packet one-way delay: 208.611 ms
Loss rate: 0.97%
```

Run 5: Report of TCP Cubic — Data Link

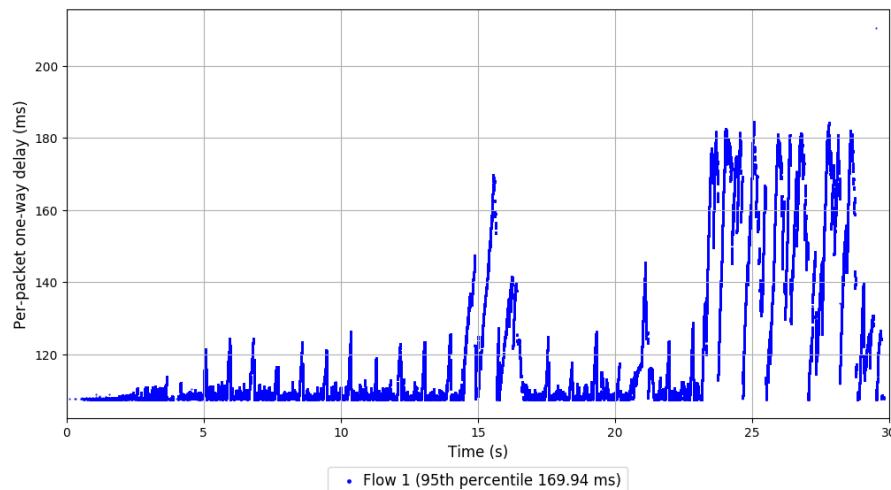
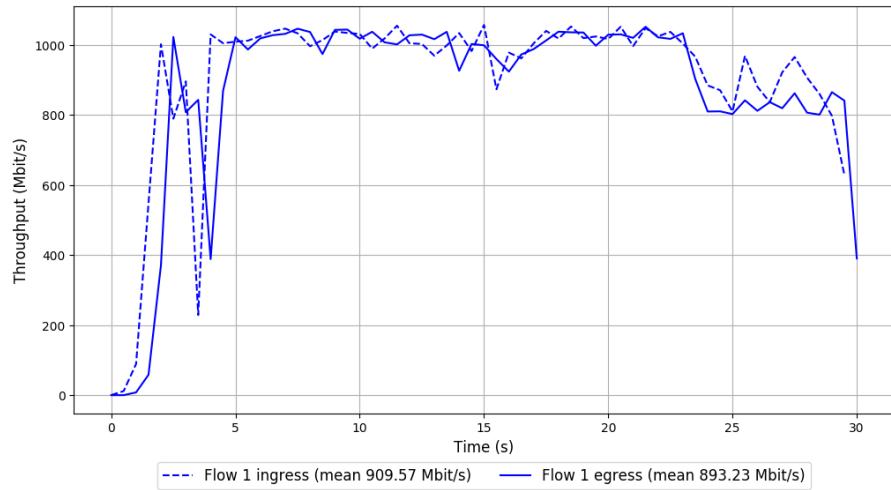


```
Run 1: Statistics of FillP

Start at: 2019-01-18 17:33:01
End at: 2019-01-18 17:38:31
Local clock offset: 3.004 ms
Remote clock offset: 4.463 ms

# Below is generated by plot.py at 2019-01-18 20:56:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 893.23 Mbit/s
95th percentile per-packet one-way delay: 169.937 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 893.23 Mbit/s
95th percentile per-packet one-way delay: 169.937 ms
Loss rate: 2.52%
```

Run 1: Report of FillP — Data Link

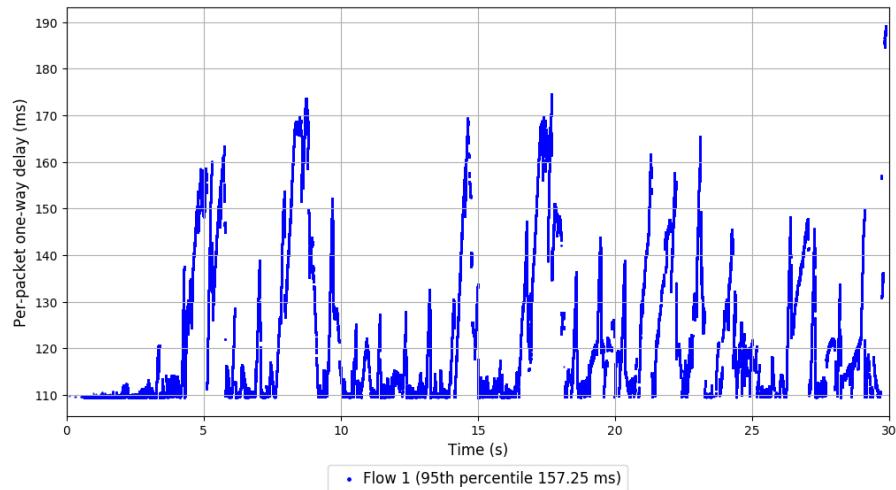
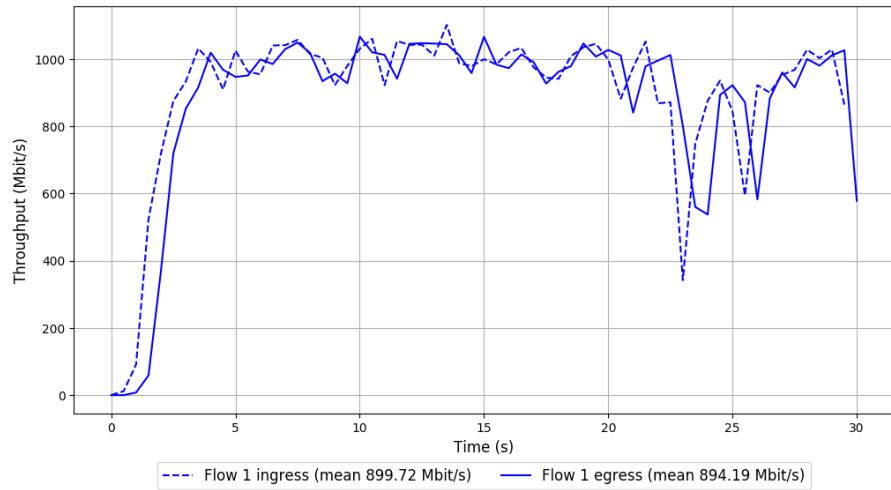


Run 2: Statistics of FillP

```
Start at: 2019-01-18 18:05:21
End at: 2019-01-18 18:05:51
Local clock offset: 25.09 ms
Remote clock offset: 22.989 ms

# Below is generated by plot.py at 2019-01-18 21:08:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 894.19 Mbit/s
95th percentile per-packet one-way delay: 157.245 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 894.19 Mbit/s
95th percentile per-packet one-way delay: 157.245 ms
Loss rate: 1.34%
```

Run 2: Report of FillP — Data Link

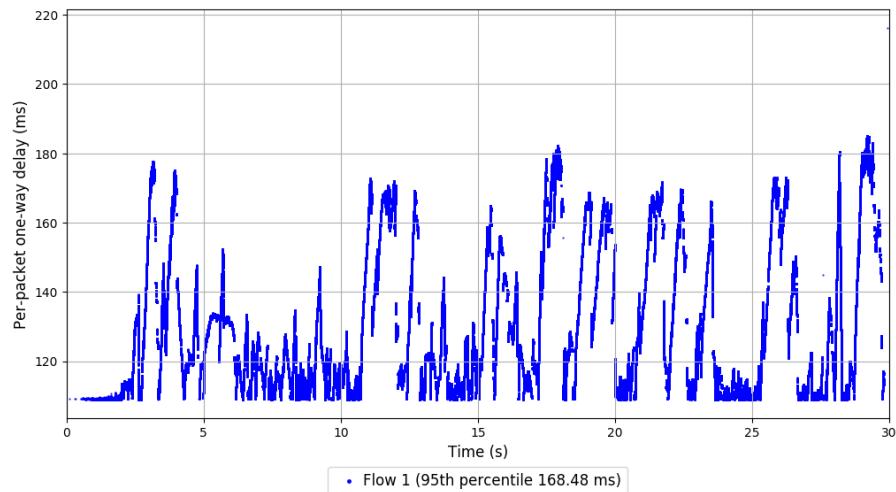
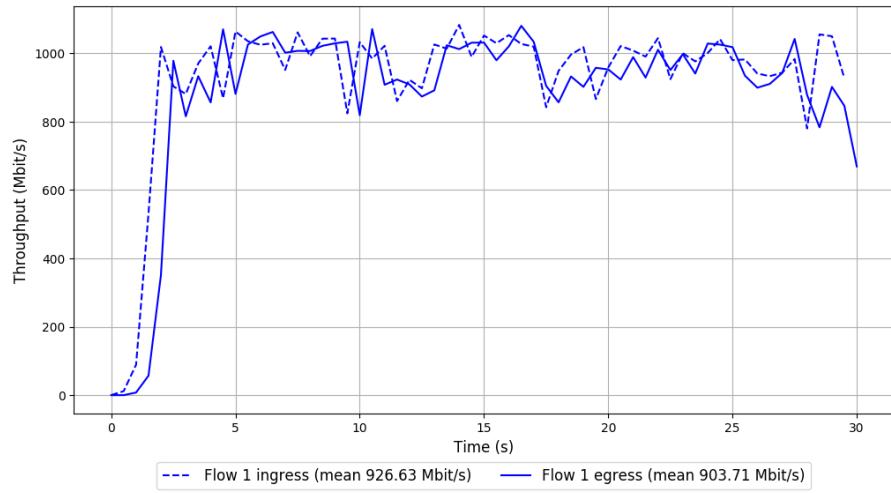


Run 3: Statistics of FillP

```
Start at: 2019-01-18 18:36:49
End at: 2019-01-18 18:37:19
Local clock offset: 38.942 ms
Remote clock offset: 36.29 ms

# Below is generated by plot.py at 2019-01-18 21:08:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 903.71 Mbit/s
95th percentile per-packet one-way delay: 168.483 ms
Loss rate: 3.00%
-- Flow 1:
Average throughput: 903.71 Mbit/s
95th percentile per-packet one-way delay: 168.483 ms
Loss rate: 3.00%
```

Run 3: Report of FillP — Data Link

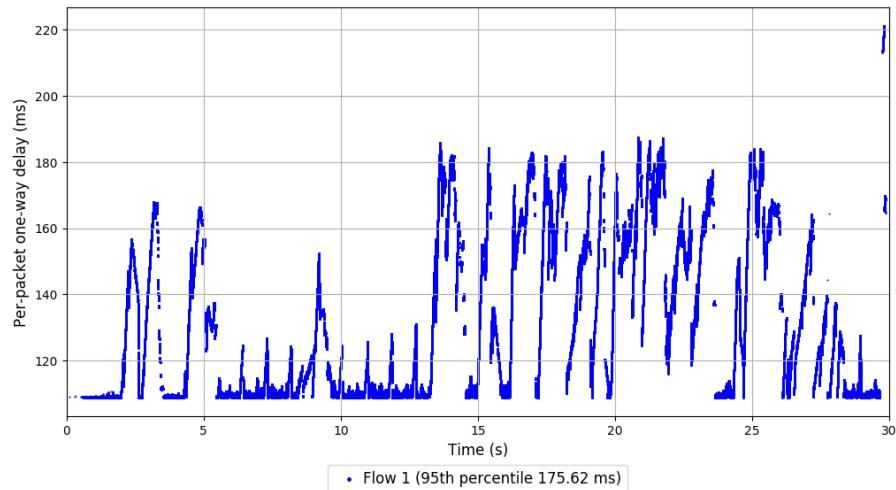
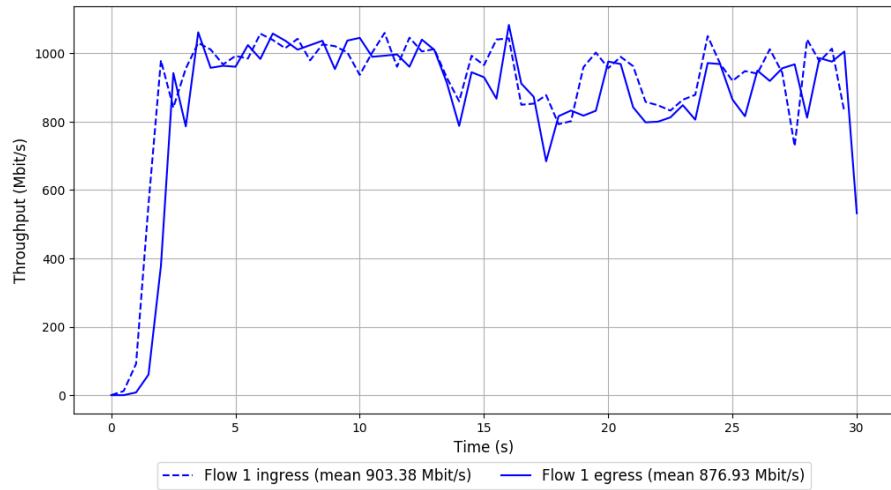


Run 4: Statistics of FillP

```
Start at: 2019-01-18 19:09:04
End at: 2019-01-18 19:09:34
Local clock offset: 18.782 ms
Remote clock offset: 17.51 ms

# Below is generated by plot.py at 2019-01-18 21:09:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 876.93 Mbit/s
95th percentile per-packet one-way delay: 175.621 ms
Loss rate: 3.64%
-- Flow 1:
Average throughput: 876.93 Mbit/s
95th percentile per-packet one-way delay: 175.621 ms
Loss rate: 3.64%
```

Run 4: Report of FillP — Data Link

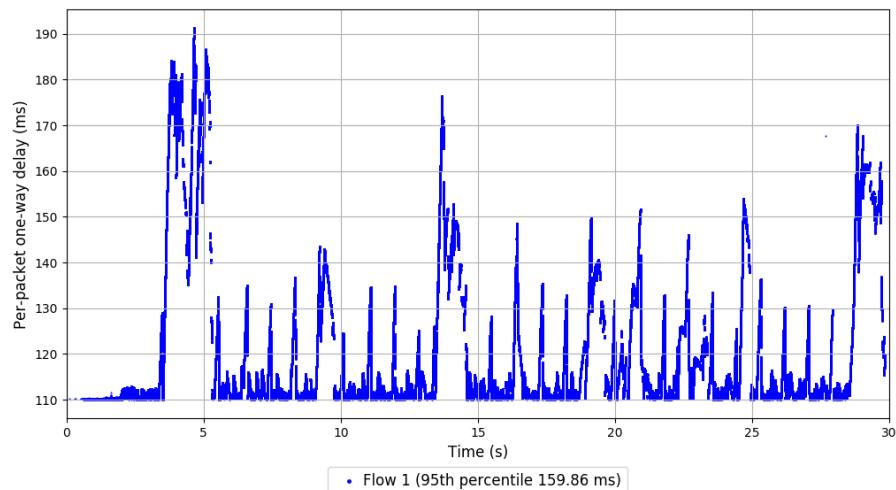
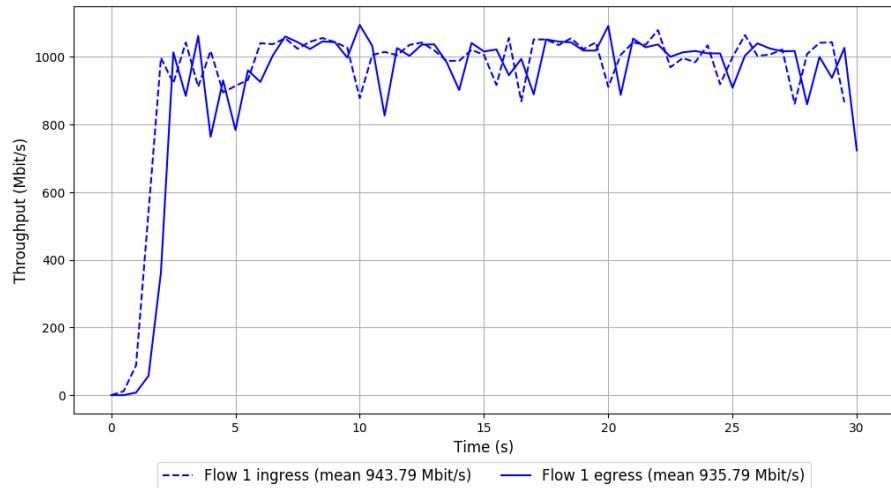


```
Run 5: Statistics of FillP
```

```
Start at: 2019-01-18 19:40:40
End at: 2019-01-18 19:41:10
Local clock offset: 8.971 ms
Remote clock offset: 7.66 ms

# Below is generated by plot.py at 2019-01-18 21:10:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 935.79 Mbit/s
95th percentile per-packet one-way delay: 159.863 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 935.79 Mbit/s
95th percentile per-packet one-way delay: 159.863 ms
Loss rate: 1.58%
```

Run 5: Report of FillP — Data Link

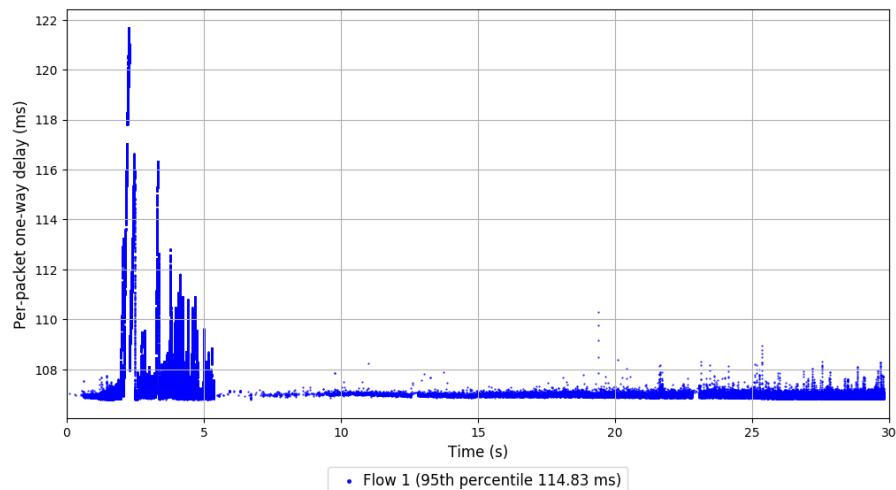
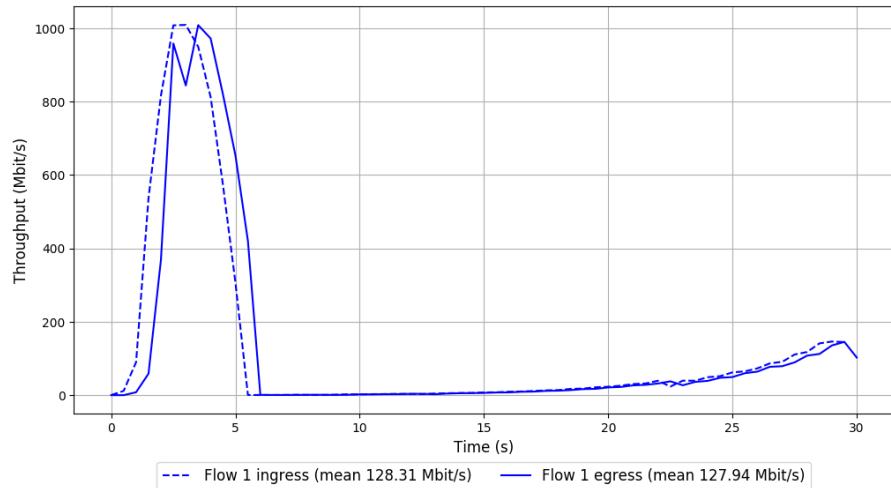


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-18 17:31:43
End at: 2019-01-18 17:32:13
Local clock offset: 1.927 ms
Remote clock offset: 4.132 ms

# Below is generated by plot.py at 2019-01-18 21:10:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 127.94 Mbit/s
95th percentile per-packet one-way delay: 114.825 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 127.94 Mbit/s
95th percentile per-packet one-way delay: 114.825 ms
Loss rate: 1.02%
```

Run 1: Report of FillP-Sheep — Data Link

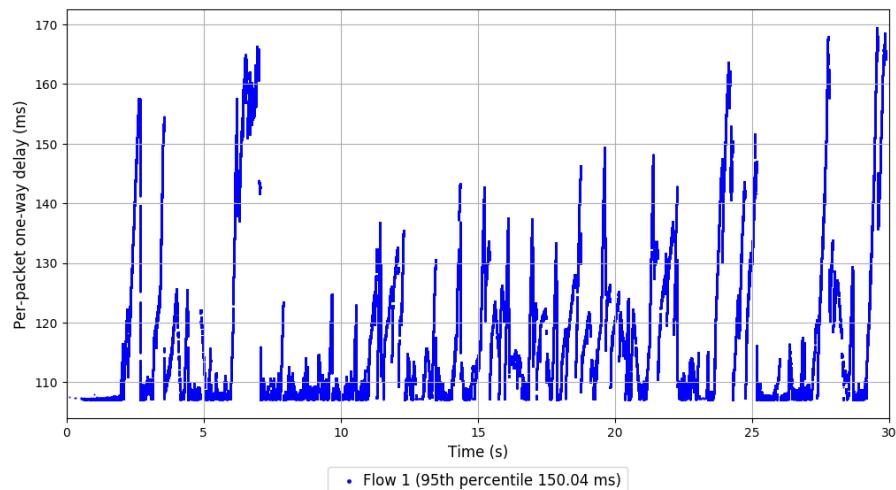
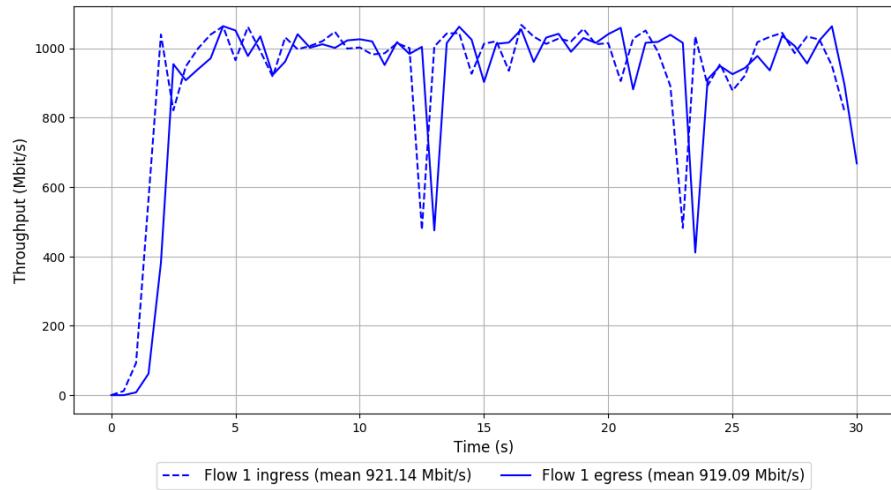


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-18 18:03:30
End at: 2019-01-18 18:04:00
Local clock offset: 24.673 ms
Remote clock offset: 24.469 ms

# Below is generated by plot.py at 2019-01-18 21:11:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 919.09 Mbit/s
95th percentile per-packet one-way delay: 150.039 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 919.09 Mbit/s
95th percentile per-packet one-way delay: 150.039 ms
Loss rate: 0.95%
```

Run 2: Report of FillP-Sheep — Data Link

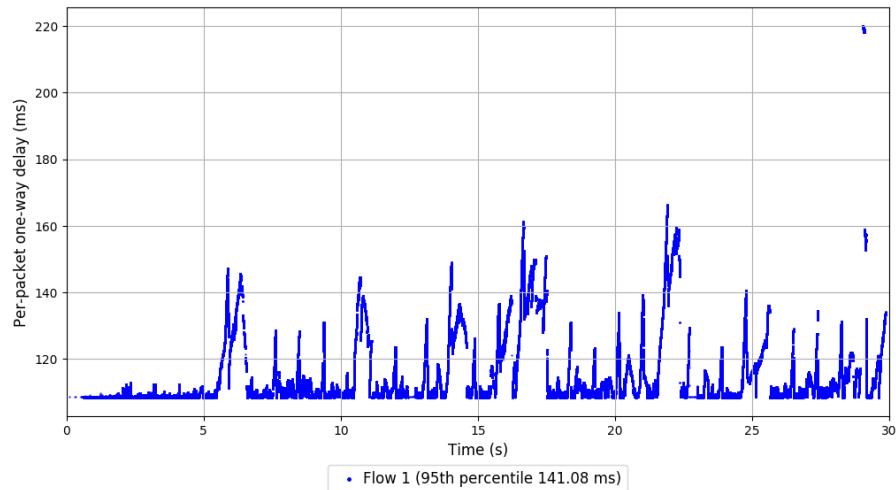
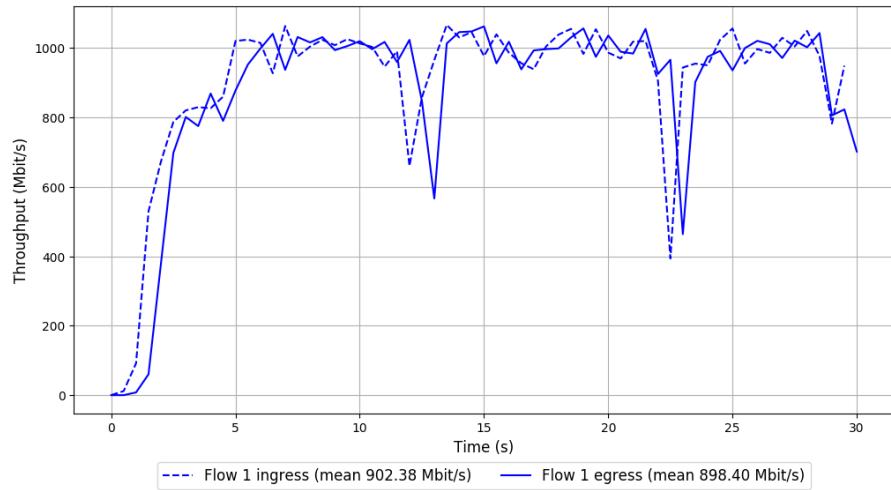


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-18 18:35:00
End at: 2019-01-18 18:35:30
Local clock offset: 37.621 ms
Remote clock offset: 34.328 ms

# Below is generated by plot.py at 2019-01-18 21:11:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 898.40 Mbit/s
95th percentile per-packet one-way delay: 141.079 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 898.40 Mbit/s
95th percentile per-packet one-way delay: 141.079 ms
Loss rate: 1.17%
```

Run 3: Report of FillP-Sheep — Data Link

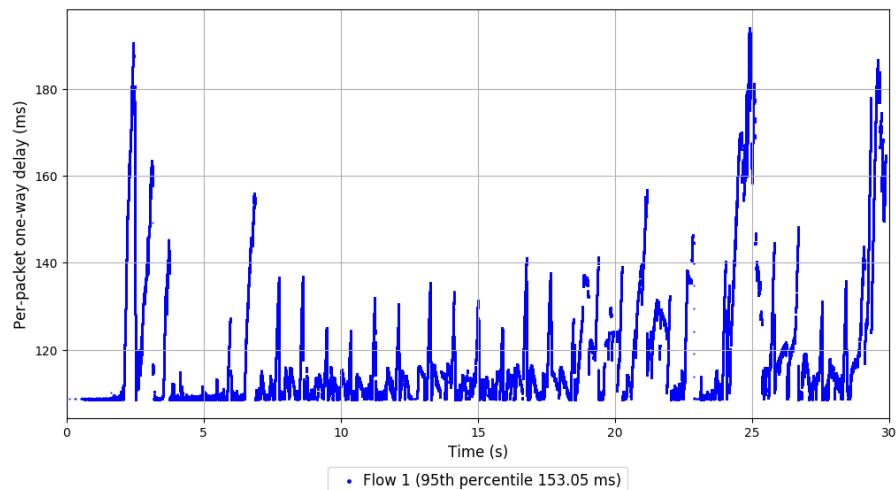
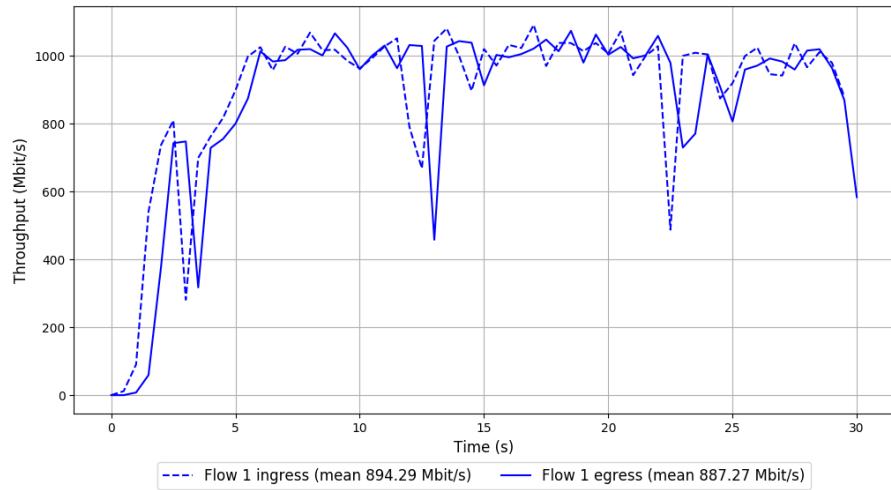


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-18 19:07:16
End at: 2019-01-18 19:07:46
Local clock offset: 17.823 ms
Remote clock offset: 16.85 ms

# Below is generated by plot.py at 2019-01-18 21:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 887.27 Mbit/s
95th percentile per-packet one-way delay: 153.048 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 887.27 Mbit/s
95th percentile per-packet one-way delay: 153.048 ms
Loss rate: 1.51%
```

Run 4: Report of FillP-Sheep — Data Link

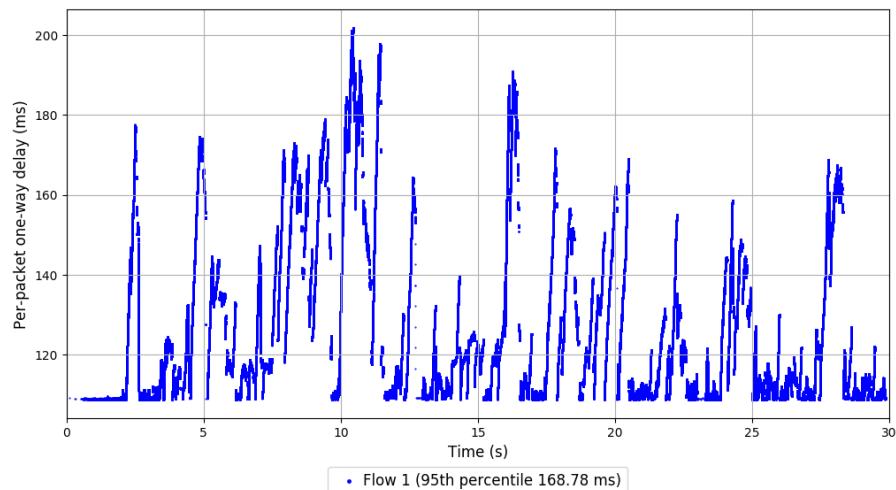
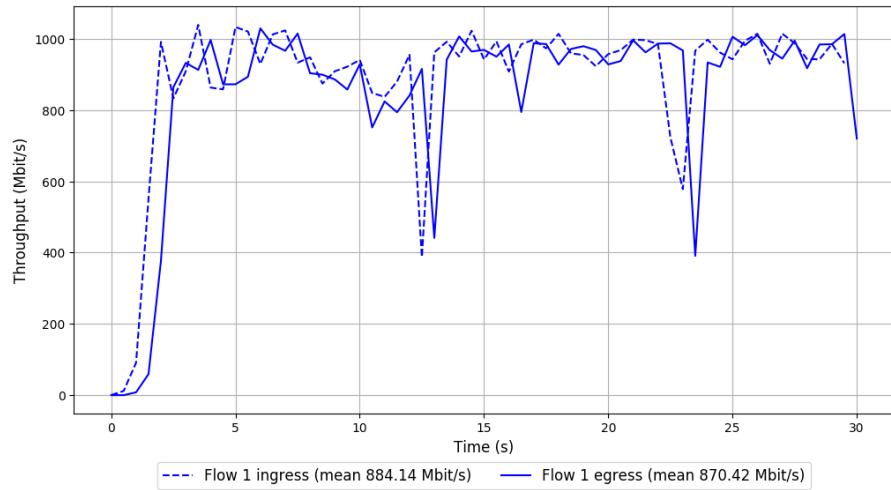


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-18 19:38:52
End at: 2019-01-18 19:39:22
Local clock offset: 8.768 ms
Remote clock offset: 7.701 ms

# Below is generated by plot.py at 2019-01-18 21:24:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 870.42 Mbit/s
95th percentile per-packet one-way delay: 168.775 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 870.42 Mbit/s
95th percentile per-packet one-way delay: 168.775 ms
Loss rate: 2.27%
```

Run 5: Report of FillP-Sheep — Data Link

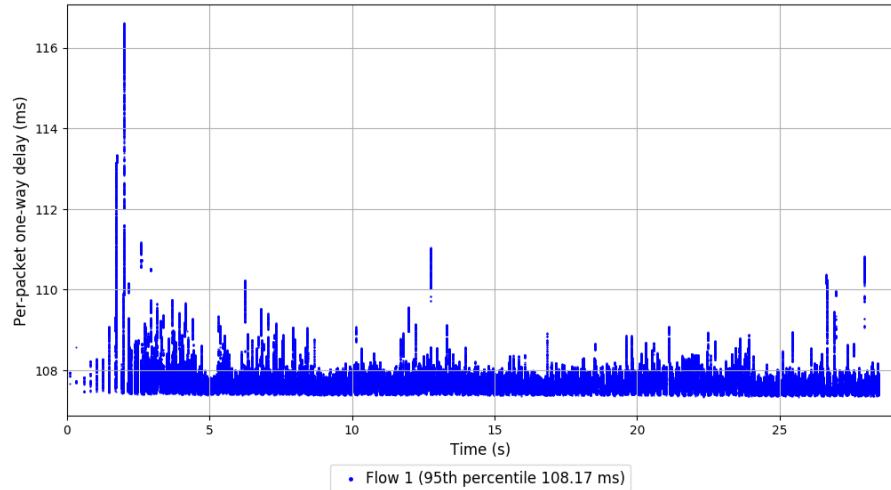
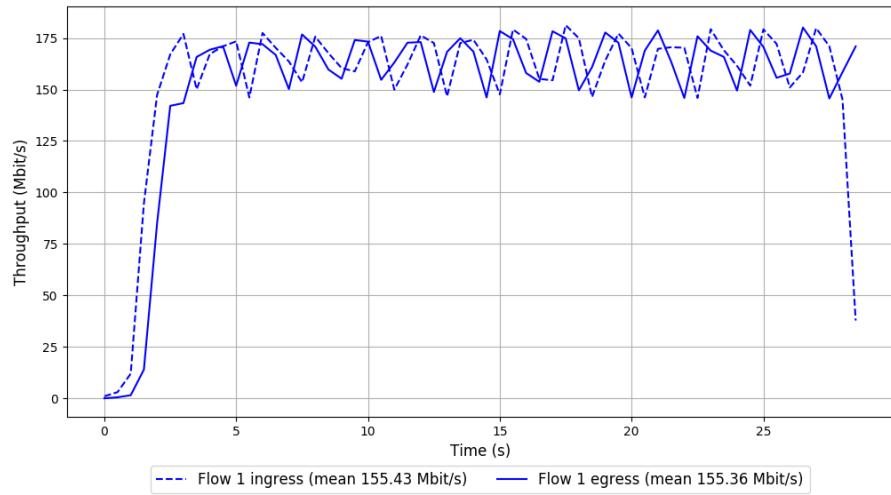


Run 1: Statistics of Indigo

```
Start at: 2019-01-18 18:02:05
End at: 2019-01-18 18:02:35
Local clock offset: 23.472 ms
Remote clock offset: 22.472 ms

# Below is generated by plot.py at 2019-01-18 21:24:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.36 Mbit/s
95th percentile per-packet one-way delay: 108.174 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 155.36 Mbit/s
95th percentile per-packet one-way delay: 108.174 ms
Loss rate: 0.81%
```

Run 1: Report of Indigo — Data Link

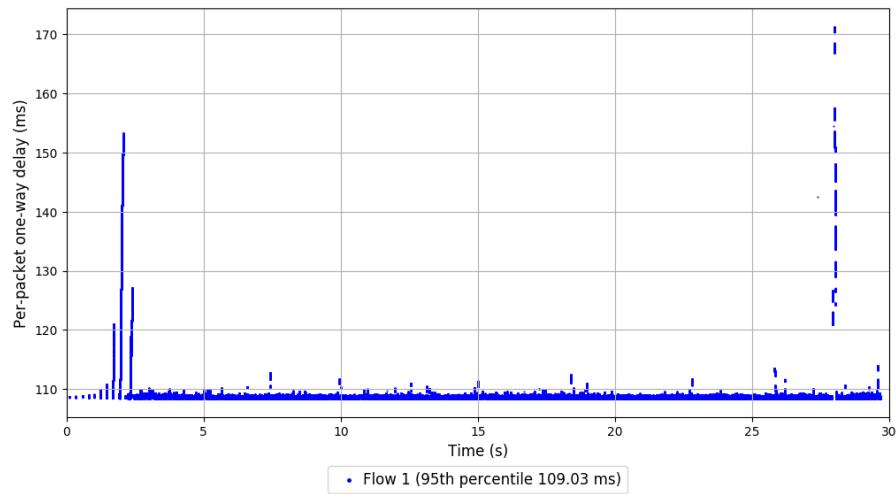
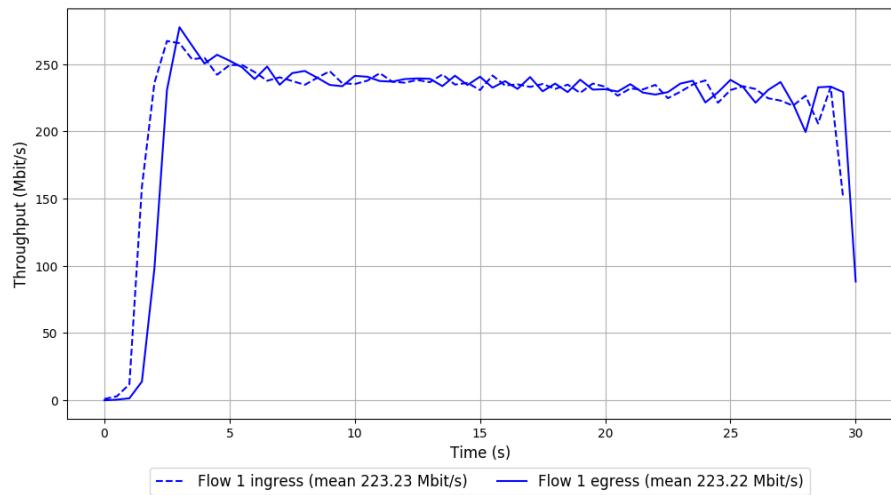


Run 2: Statistics of Indigo

```
Start at: 2019-01-18 18:33:28
End at: 2019-01-18 18:33:58
Local clock offset: 35.309 ms
Remote clock offset: 33.132 ms

# Below is generated by plot.py at 2019-01-18 21:24:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.22 Mbit/s
95th percentile per-packet one-way delay: 109.025 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 223.22 Mbit/s
95th percentile per-packet one-way delay: 109.025 ms
Loss rate: 0.74%
```

Run 2: Report of Indigo — Data Link

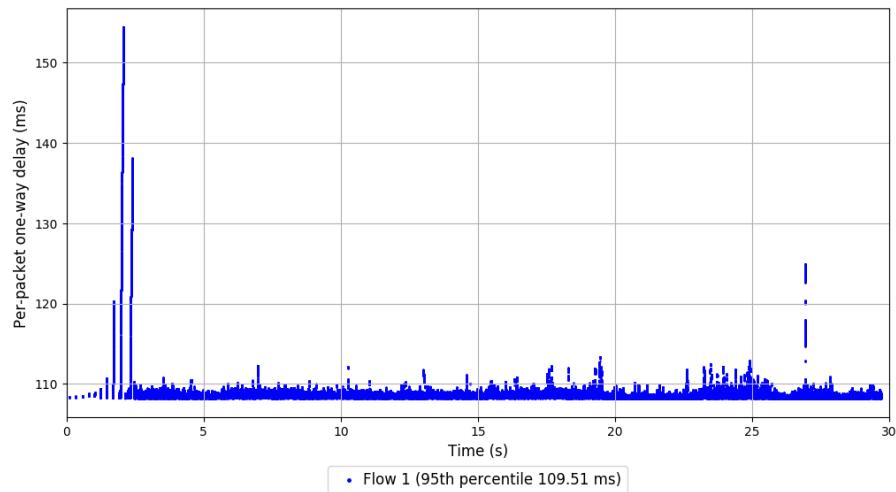
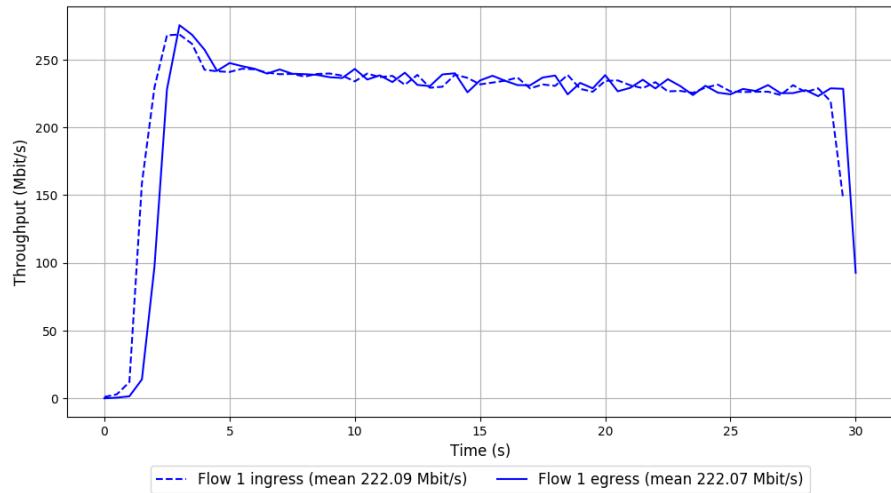


Run 3: Statistics of Indigo

```
Start at: 2019-01-18 19:05:43
End at: 2019-01-18 19:06:13
Local clock offset: 17.445 ms
Remote clock offset: 16.177 ms

# Below is generated by plot.py at 2019-01-18 21:24:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.07 Mbit/s
95th percentile per-packet one-way delay: 109.508 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 222.07 Mbit/s
95th percentile per-packet one-way delay: 109.508 ms
Loss rate: 0.74%
```

Run 3: Report of Indigo — Data Link

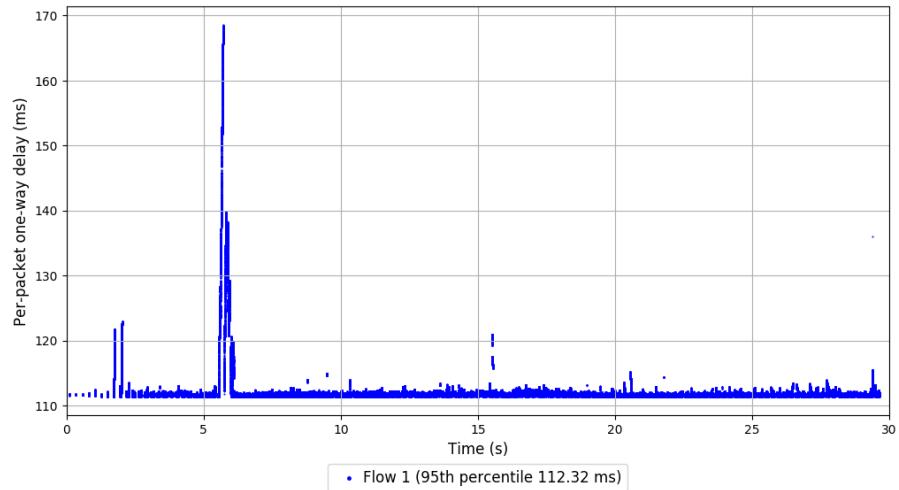
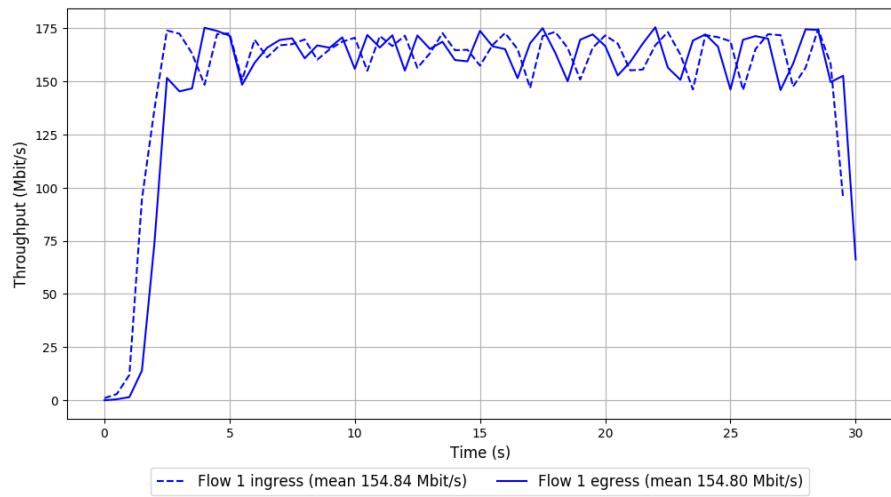


Run 4: Statistics of Indigo

```
Start at: 2019-01-18 19:37:26
End at: 2019-01-18 19:37:56
Local clock offset: 8.112 ms
Remote clock offset: 7.473 ms

# Below is generated by plot.py at 2019-01-18 21:24:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.80 Mbit/s
95th percentile per-packet one-way delay: 112.323 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 154.80 Mbit/s
95th percentile per-packet one-way delay: 112.323 ms
Loss rate: 0.79%
```

Run 4: Report of Indigo — Data Link

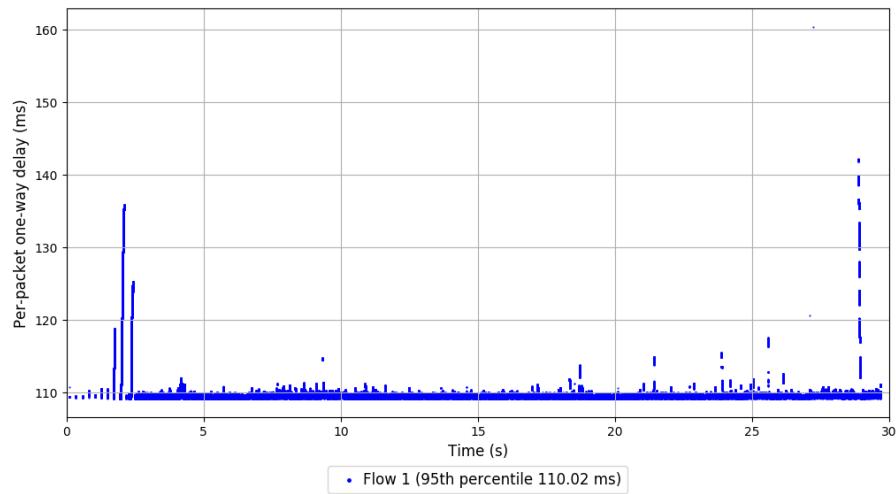
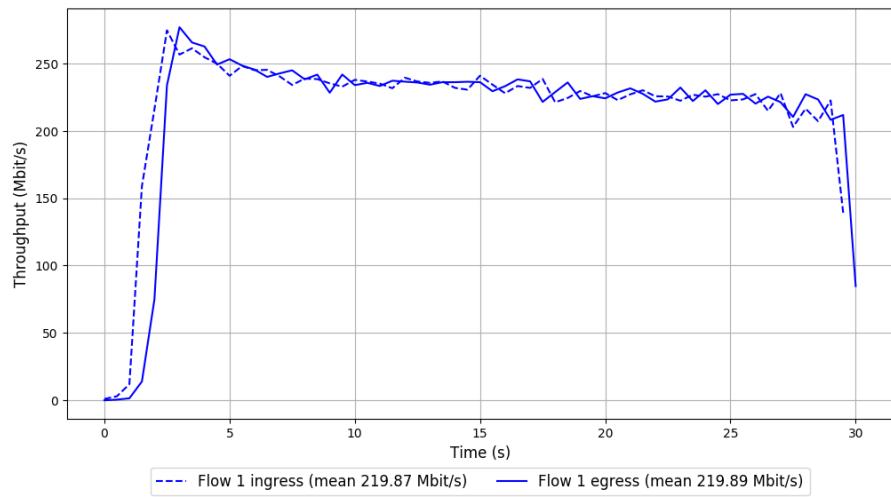


Run 5: Statistics of Indigo

```
Start at: 2019-01-18 20:09:05
End at: 2019-01-18 20:09:35
Local clock offset: 1.946 ms
Remote clock offset: 3.477 ms

# Below is generated by plot.py at 2019-01-18 21:24:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.89 Mbit/s
95th percentile per-packet one-way delay: 110.017 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 219.89 Mbit/s
95th percentile per-packet one-way delay: 110.017 ms
Loss rate: 0.73%
```

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

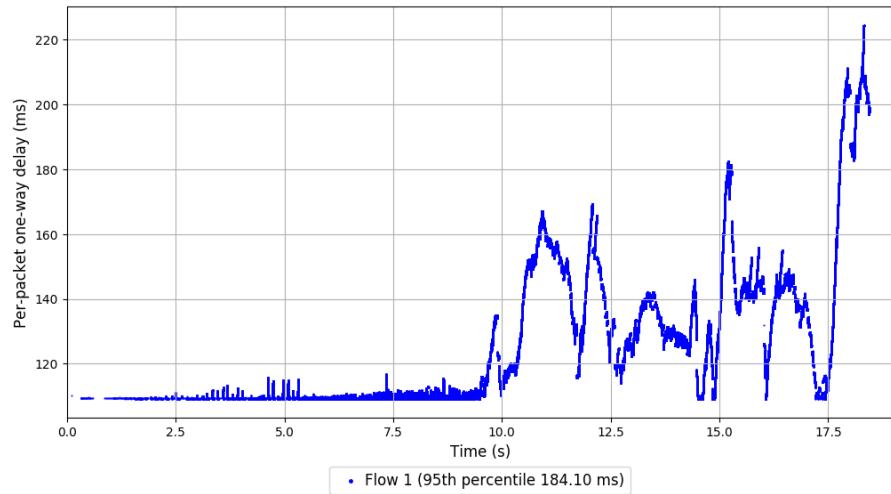
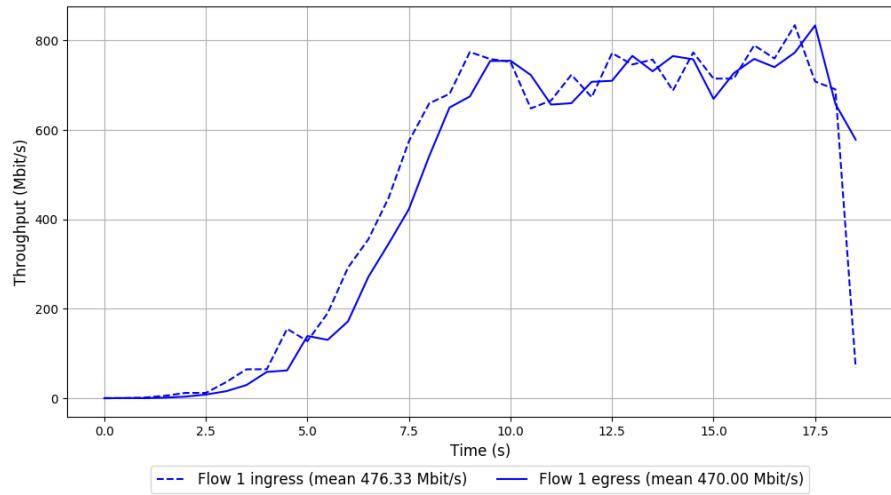
Start at: 2019-01-18 17:39:13

End at: 2019-01-18 17:39:43

Local clock offset: 10.735 ms

Remote clock offset: 9.224 ms

Run 1: Report of Indigo-MusesC3 — Data Link

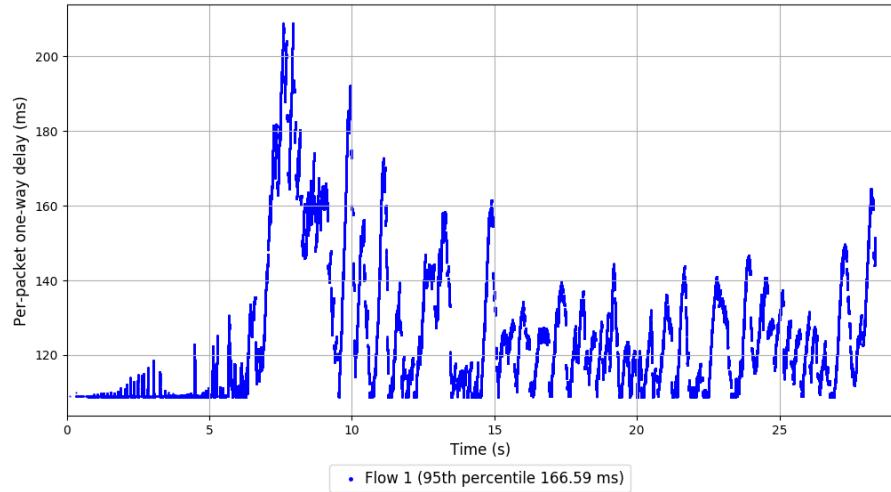
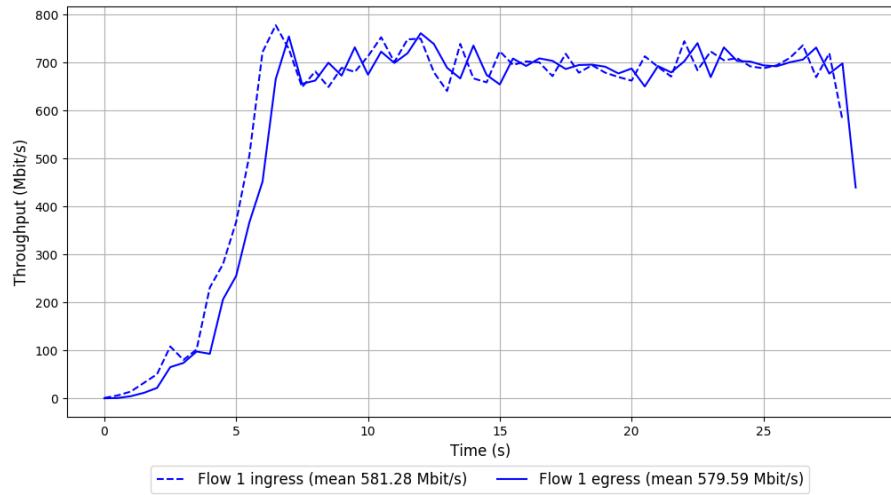


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 18:11:23
End at: 2019-01-18 18:11:53
Local clock offset: 19.659 ms
Remote clock offset: 18.626 ms

# Below is generated by plot.py at 2019-01-18 21:26:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.59 Mbit/s
95th percentile per-packet one-way delay: 166.593 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 579.59 Mbit/s
95th percentile per-packet one-way delay: 166.593 ms
Loss rate: 1.05%
```

Run 2: Report of Indigo-MusesC3 — Data Link

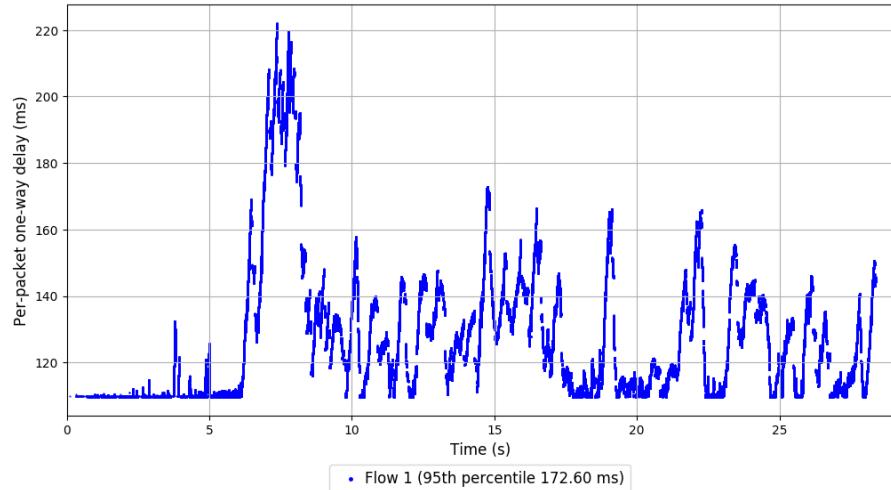
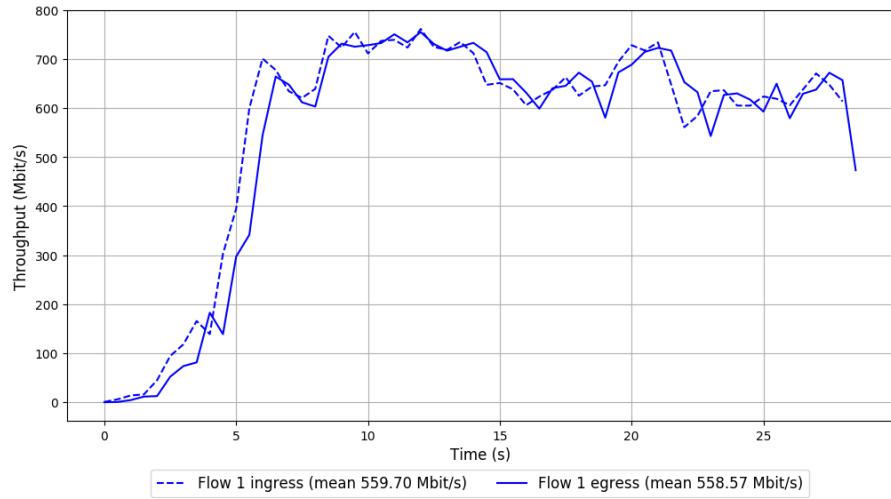


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 18:43:01
End at: 2019-01-18 18:43:31
Local clock offset: 27.39 ms
Remote clock offset: 23.994 ms

# Below is generated by plot.py at 2019-01-18 21:26:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.57 Mbit/s
95th percentile per-packet one-way delay: 172.604 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 558.57 Mbit/s
95th percentile per-packet one-way delay: 172.604 ms
Loss rate: 0.96%
```

Run 3: Report of Indigo-MusesC3 — Data Link

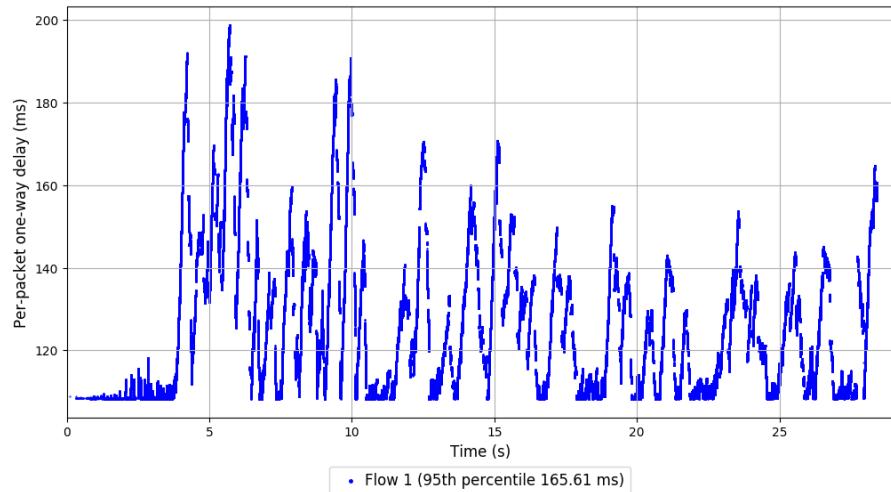
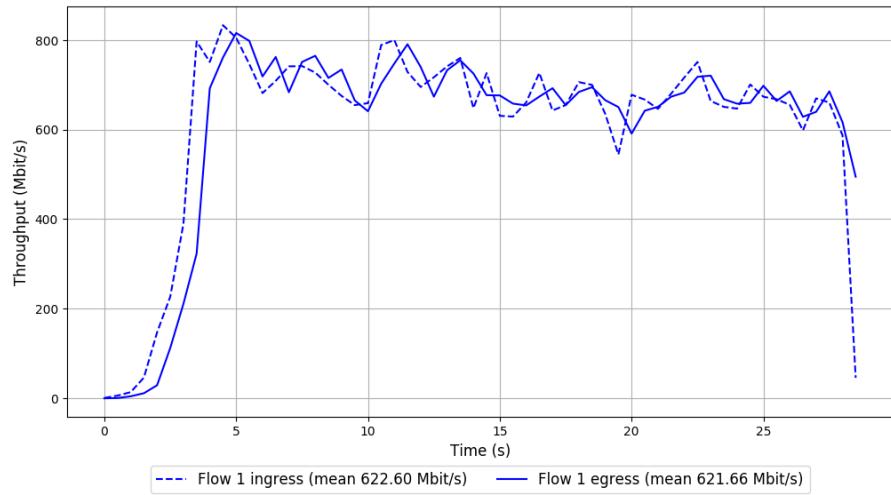


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 19:15:13
End at: 2019-01-18 19:15:43
Local clock offset: 15.088 ms
Remote clock offset: 14.103 ms

# Below is generated by plot.py at 2019-01-18 21:31:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 621.66 Mbit/s
95th percentile per-packet one-way delay: 165.607 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 621.66 Mbit/s
95th percentile per-packet one-way delay: 165.607 ms
Loss rate: 0.92%
```

Run 4: Report of Indigo-MusesC3 — Data Link

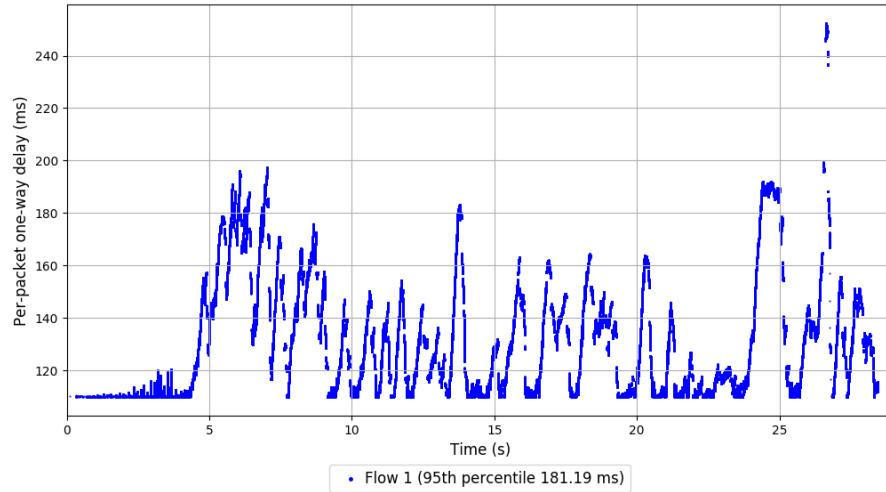
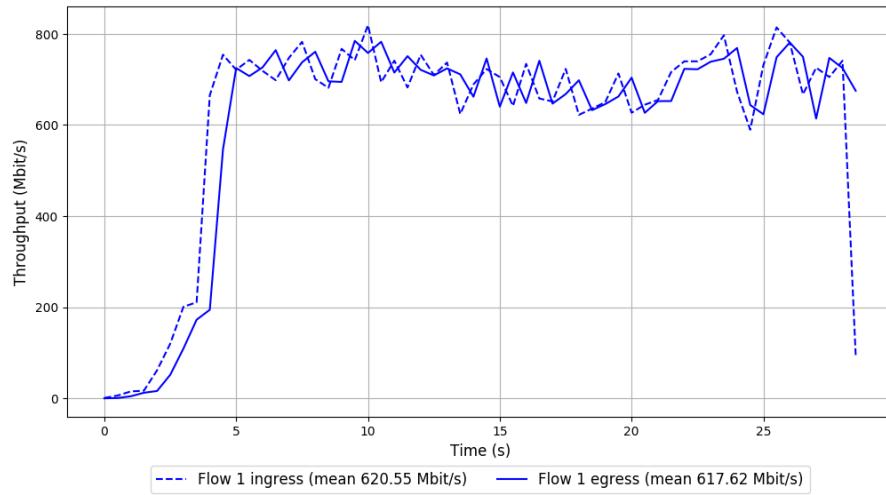


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 19:47:07
End at: 2019-01-18 19:47:37
Local clock offset: 9.762 ms
Remote clock offset: 8.501 ms

# Below is generated by plot.py at 2019-01-18 21:32:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 617.62 Mbit/s
95th percentile per-packet one-way delay: 181.194 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 617.62 Mbit/s
95th percentile per-packet one-way delay: 181.194 ms
Loss rate: 1.24%
```

Run 5: Report of Indigo-MusesC3 — Data Link

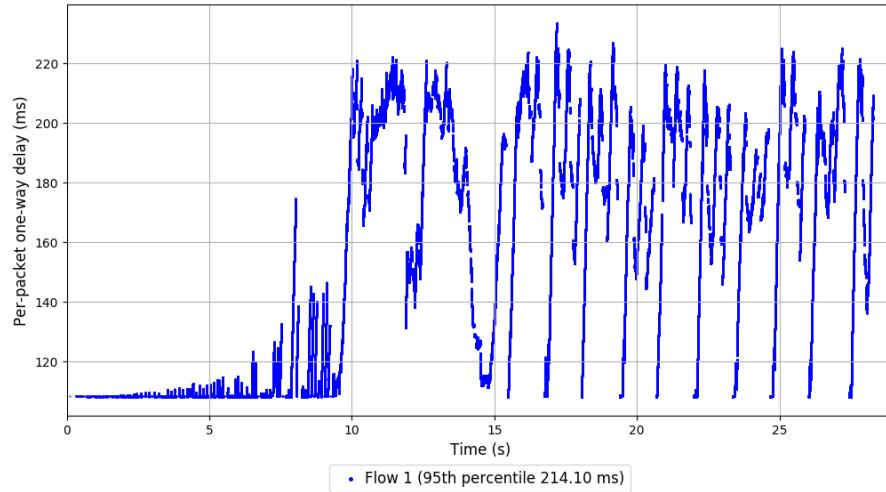
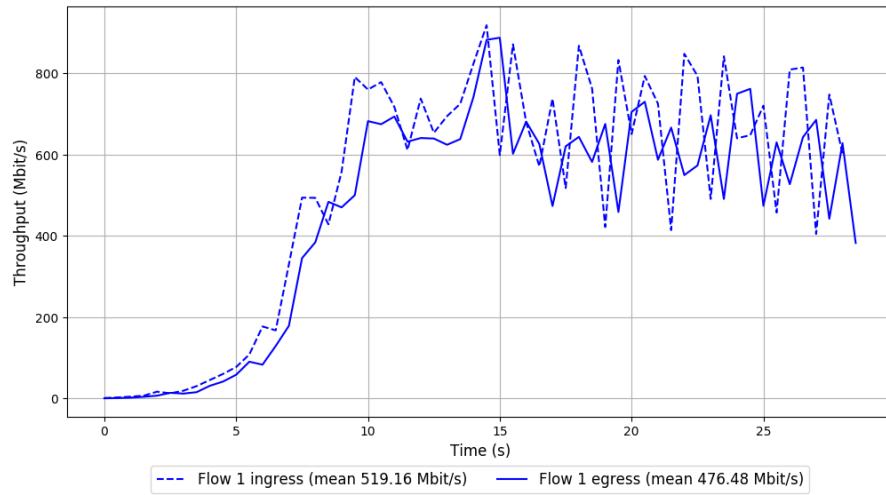


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-18 17:57:33
End at: 2019-01-18 17:58:03
Local clock offset: 17.415 ms
Remote clock offset: 16.941 ms

# Below is generated by plot.py at 2019-01-18 21:32:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 476.48 Mbit/s
95th percentile per-packet one-way delay: 214.100 ms
Loss rate: 8.93%
-- Flow 1:
Average throughput: 476.48 Mbit/s
95th percentile per-packet one-way delay: 214.100 ms
Loss rate: 8.93%
```

Run 1: Report of Indigo-MusesC5 — Data Link

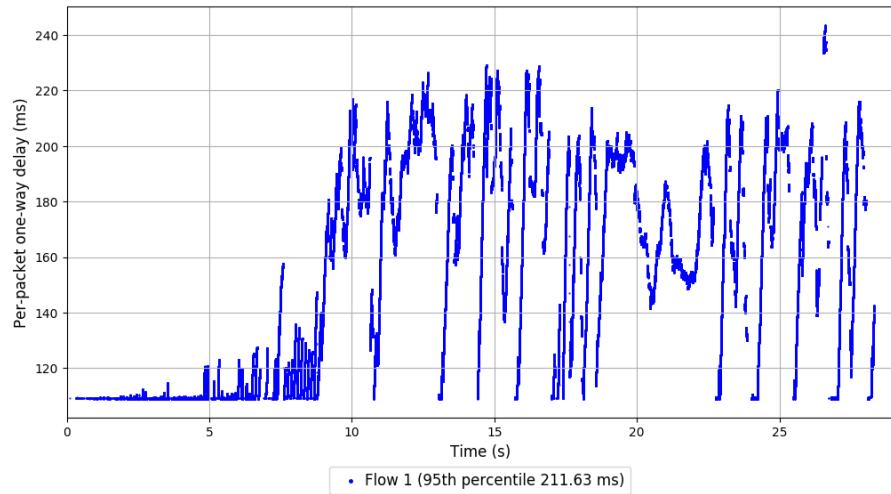
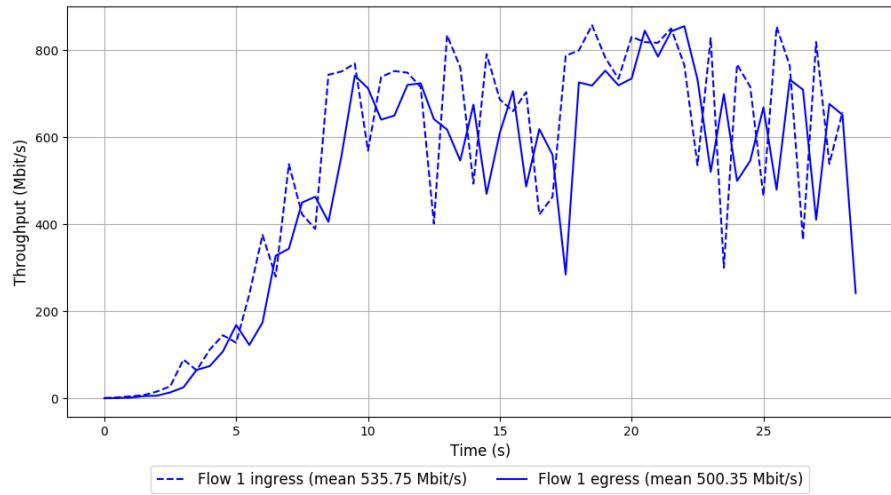


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 18:28:59
End at: 2019-01-18 18:29:29
Local clock offset: 30.668 ms
Remote clock offset: 28.392 ms

# Below is generated by plot.py at 2019-01-18 21:32:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 500.35 Mbit/s
95th percentile per-packet one-way delay: 211.626 ms
Loss rate: 7.33%
-- Flow 1:
Average throughput: 500.35 Mbit/s
95th percentile per-packet one-way delay: 211.626 ms
Loss rate: 7.33%
```

Run 2: Report of Indigo-MusesC5 — Data Link

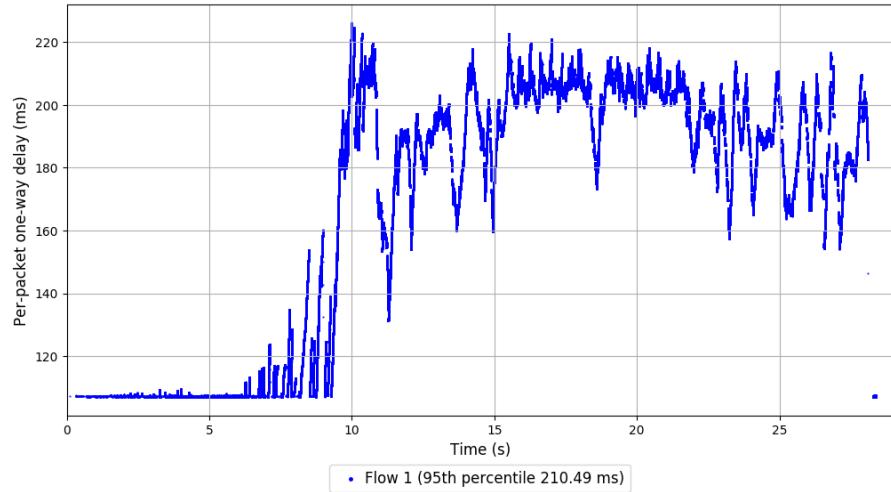
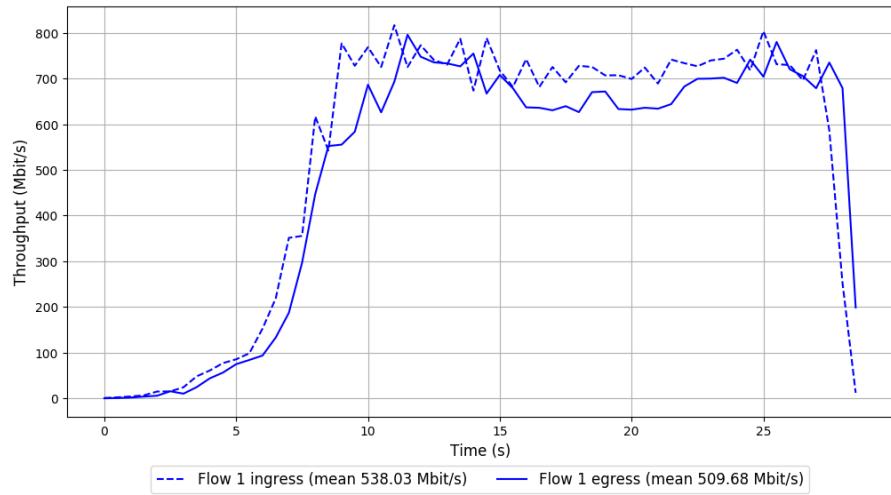


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 19:01:17
End at: 2019-01-18 19:01:47
Local clock offset: 14.798 ms
Remote clock offset: 14.863 ms

# Below is generated by plot.py at 2019-01-18 21:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 509.68 Mbit/s
95th percentile per-packet one-way delay: 210.485 ms
Loss rate: 5.99%
-- Flow 1:
Average throughput: 509.68 Mbit/s
95th percentile per-packet one-way delay: 210.485 ms
Loss rate: 5.99%
```

Run 3: Report of Indigo-MusesC5 — Data Link

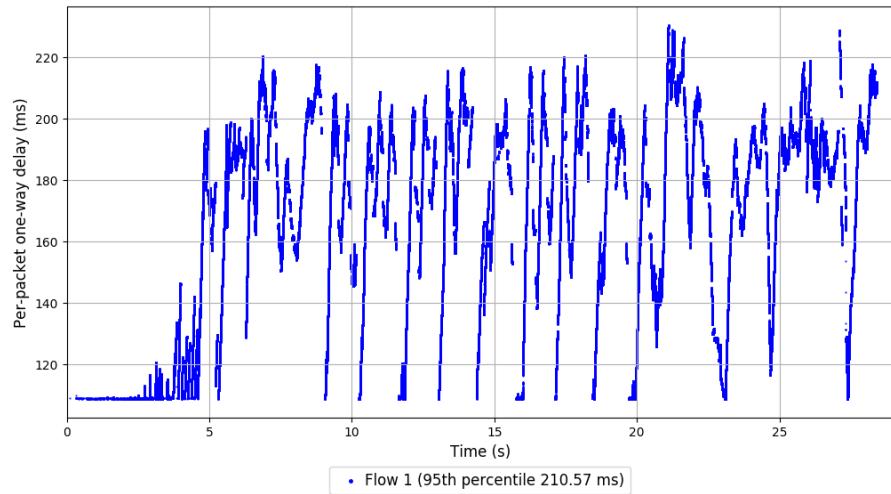
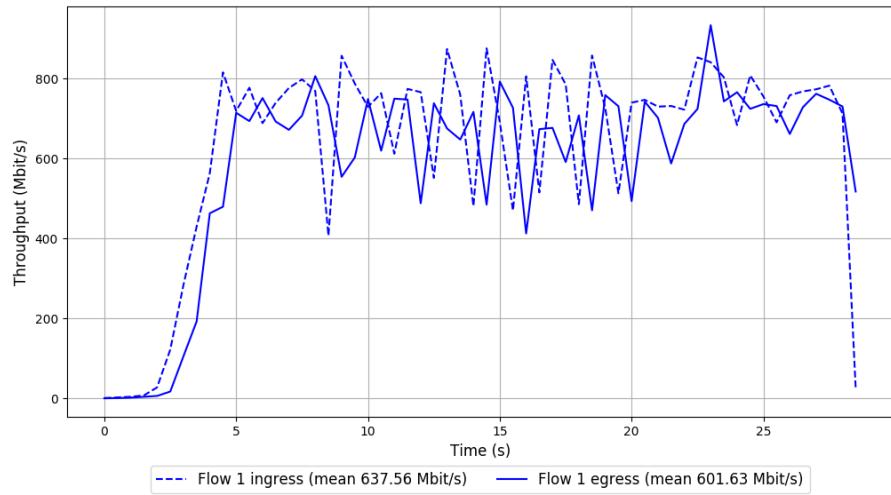


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 19:32:52
End at: 2019-01-18 19:33:22
Local clock offset: 6.903 ms
Remote clock offset: 7.006 ms

# Below is generated by plot.py at 2019-01-18 21:37:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 601.63 Mbit/s
95th percentile per-packet one-way delay: 210.567 ms
Loss rate: 6.36%
-- Flow 1:
Average throughput: 601.63 Mbit/s
95th percentile per-packet one-way delay: 210.567 ms
Loss rate: 6.36%
```

Run 4: Report of Indigo-MusesC5 — Data Link

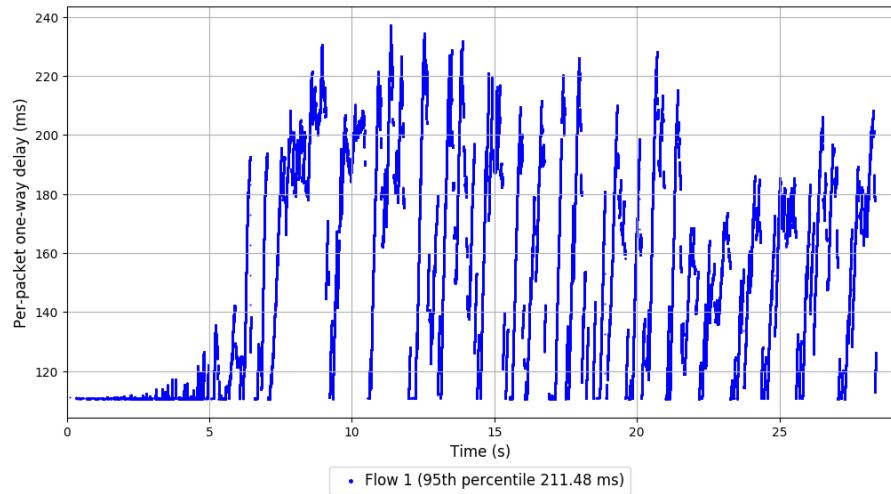
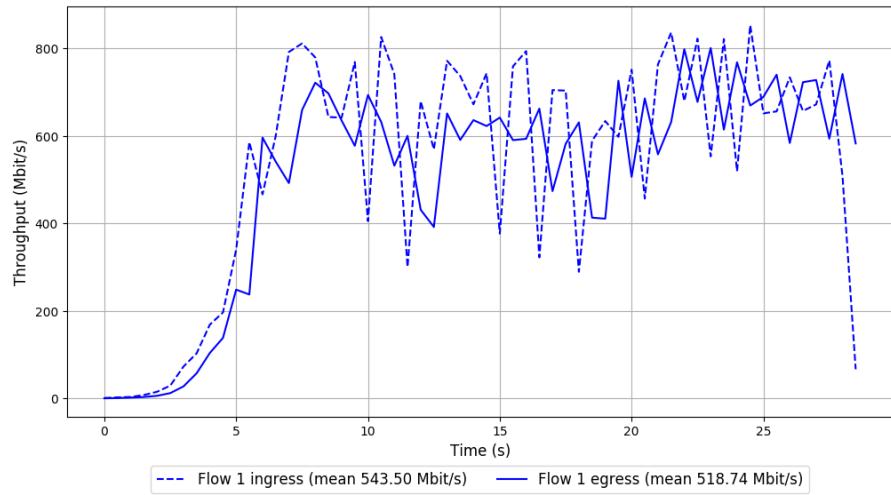


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 20:04:41
End at: 2019-01-18 20:05:11
Local clock offset: 3.665 ms
Remote clock offset: 3.414 ms

# Below is generated by plot.py at 2019-01-18 21:38:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 518.74 Mbit/s
95th percentile per-packet one-way delay: 211.484 ms
Loss rate: 5.36%
-- Flow 1:
Average throughput: 518.74 Mbit/s
95th percentile per-packet one-way delay: 211.484 ms
Loss rate: 5.36%
```

Run 5: Report of Indigo-MusesC5 — Data Link

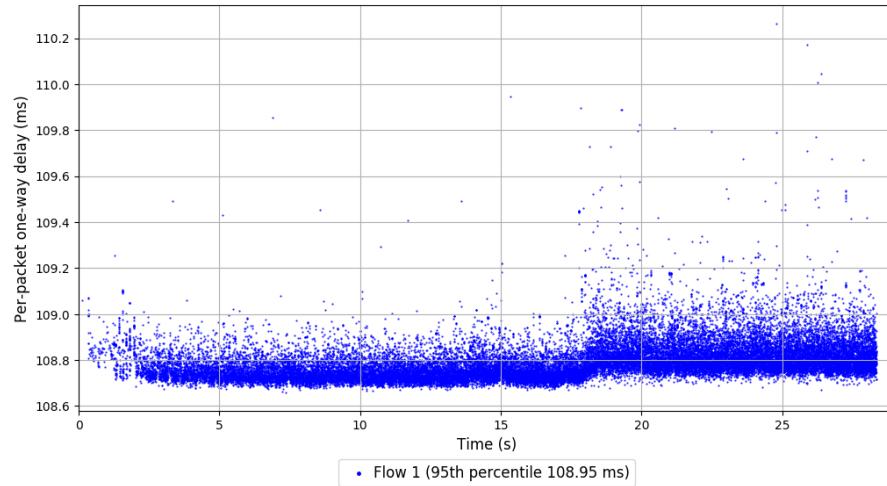
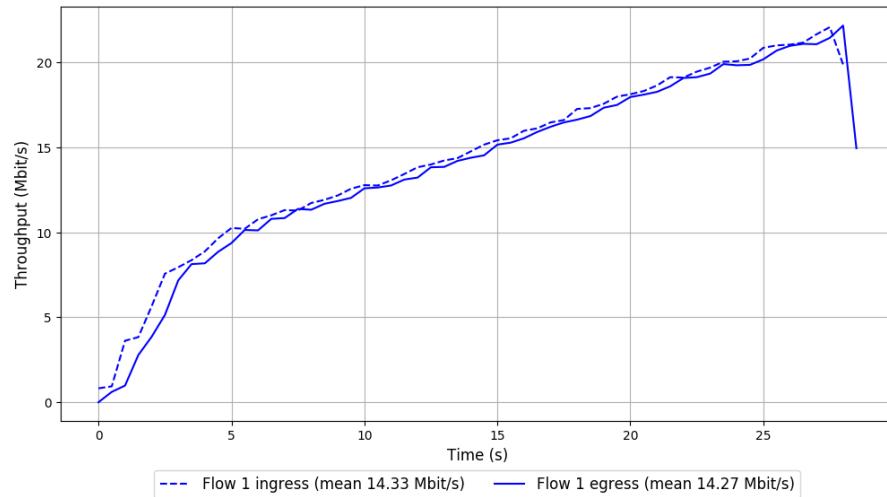


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-01-18 17:49:45
End at: 2019-01-18 17:50:15
Local clock offset: 13.549 ms
Remote clock offset: 13.064 ms

# Below is generated by plot.py at 2019-01-18 21:38:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.27 Mbit/s
95th percentile per-packet one-way delay: 108.948 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 14.27 Mbit/s
95th percentile per-packet one-way delay: 108.948 ms
Loss rate: 1.19%
```

Run 1: Report of Indigo-MusesD — Data Link

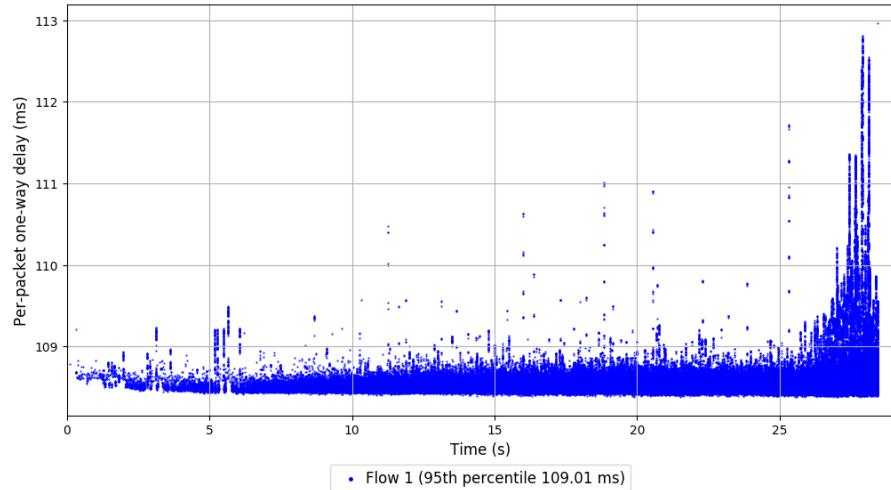
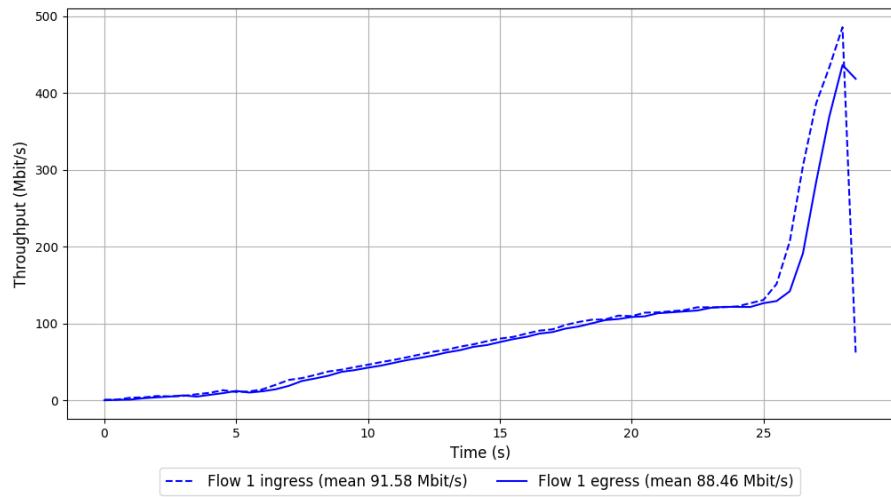


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 18:21:32
End at: 2019-01-18 18:22:02
Local clock offset: 23.403 ms
Remote clock offset: 22.247 ms

# Below is generated by plot.py at 2019-01-18 21:38:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.46 Mbit/s
95th percentile per-packet one-way delay: 109.010 ms
Loss rate: 4.14%
-- Flow 1:
Average throughput: 88.46 Mbit/s
95th percentile per-packet one-way delay: 109.010 ms
Loss rate: 4.14%
```

Run 2: Report of Indigo-MusesD — Data Link

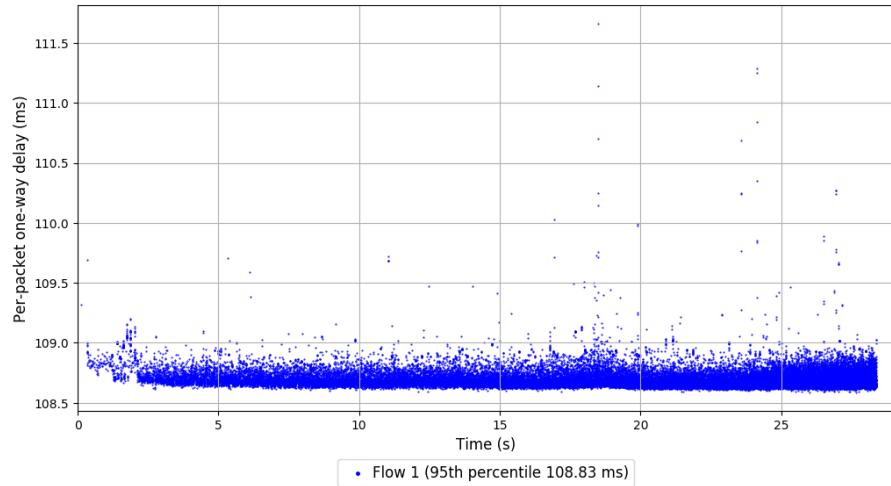
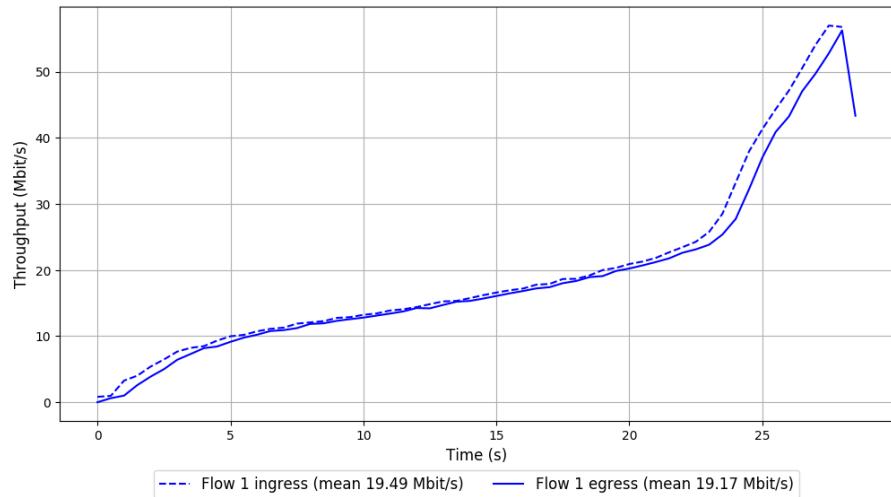


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 18:53:41
End at: 2019-01-18 18:54:11
Local clock offset: 15.174 ms
Remote clock offset: 14.37 ms

# Below is generated by plot.py at 2019-01-18 21:38:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.17 Mbit/s
95th percentile per-packet one-way delay: 108.832 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 19.17 Mbit/s
95th percentile per-packet one-way delay: 108.832 ms
Loss rate: 2.39%
```

Run 3: Report of Indigo-MusesD — Data Link

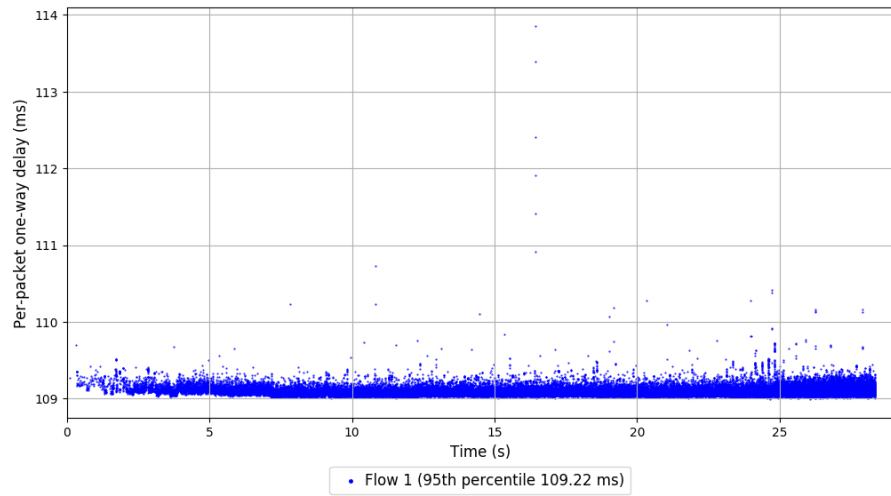
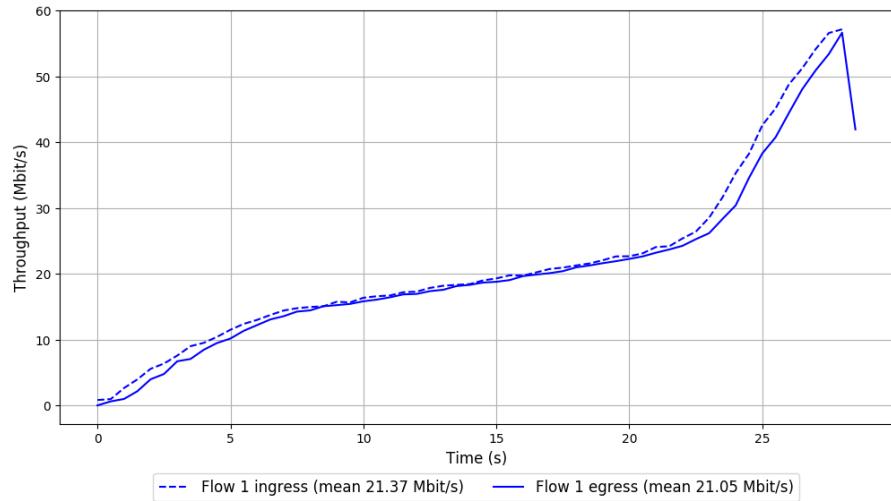


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 19:25:21
End at: 2019-01-18 19:25:51
Local clock offset: 7.66 ms
Remote clock offset: 7.443 ms

# Below is generated by plot.py at 2019-01-18 21:38:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.05 Mbit/s
95th percentile per-packet one-way delay: 109.220 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 21.05 Mbit/s
95th percentile per-packet one-way delay: 109.220 ms
Loss rate: 2.24%
```

Run 4: Report of Indigo-MusesD — Data Link

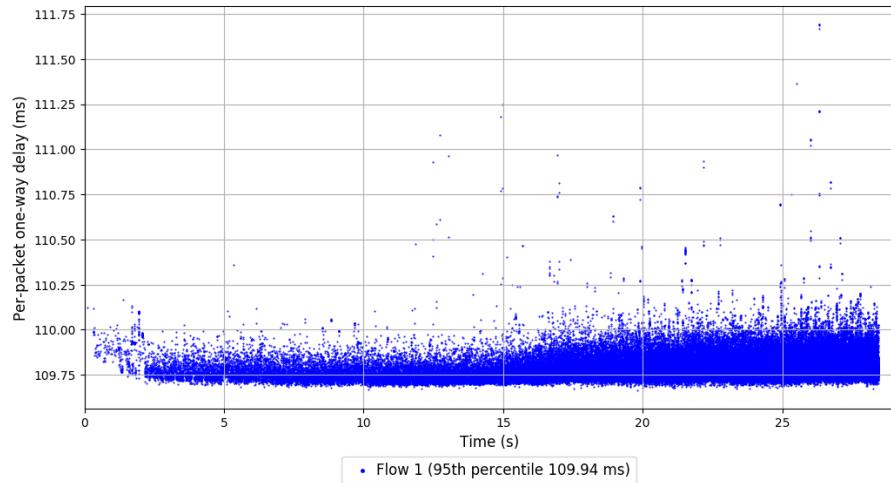
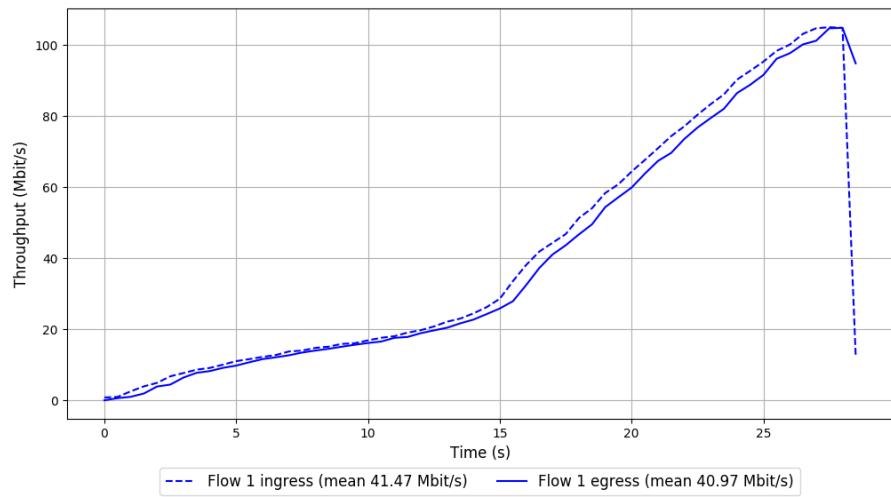


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 19:57:17
End at: 2019-01-18 19:57:47
Local clock offset: 3.767 ms
Remote clock offset: 3.952 ms

# Below is generated by plot.py at 2019-01-18 21:38:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.97 Mbit/s
95th percentile per-packet one-way delay: 109.940 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 40.97 Mbit/s
95th percentile per-packet one-way delay: 109.940 ms
Loss rate: 1.95%
```

Run 5: Report of Indigo-MusesD — Data Link

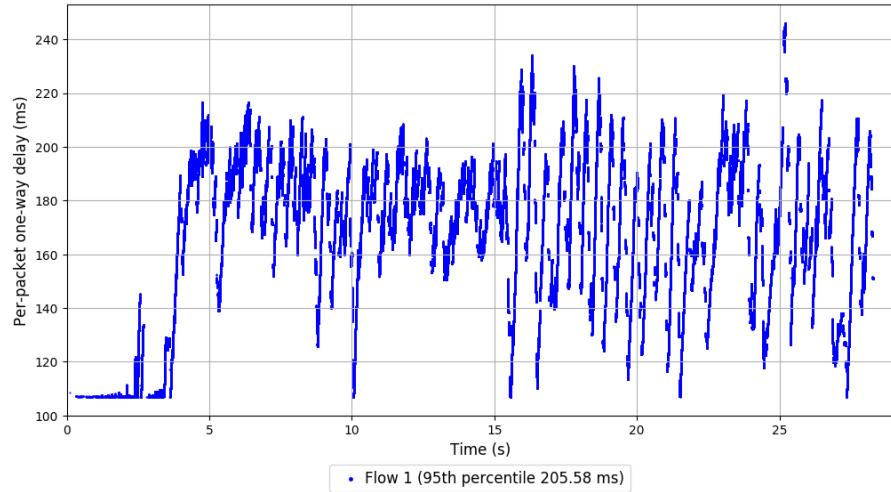
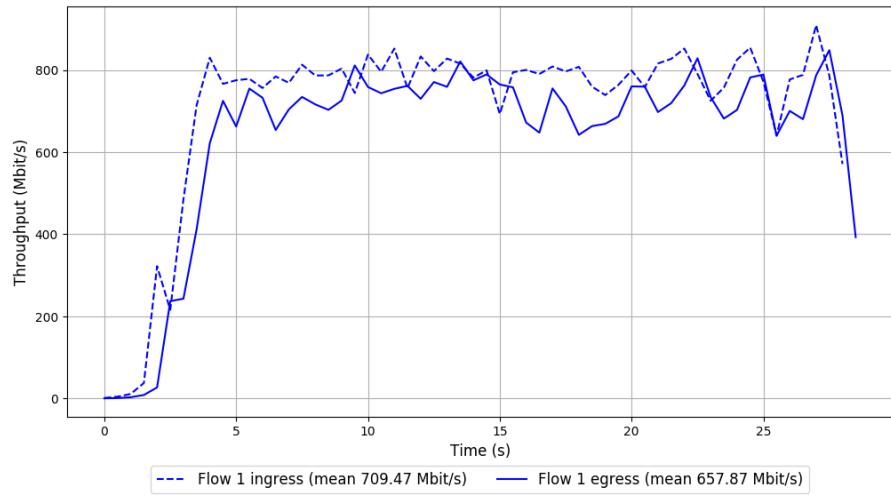


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 17:53:54
End at: 2019-01-18 17:54:24
Local clock offset: 13.01 ms
Remote clock offset: 13.304 ms

# Below is generated by plot.py at 2019-01-18 21:45:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 657.87 Mbit/s
95th percentile per-packet one-way delay: 205.583 ms
Loss rate: 7.99%
-- Flow 1:
Average throughput: 657.87 Mbit/s
95th percentile per-packet one-way delay: 205.583 ms
Loss rate: 7.99%
```

Run 1: Report of Indigo-MusesT — Data Link

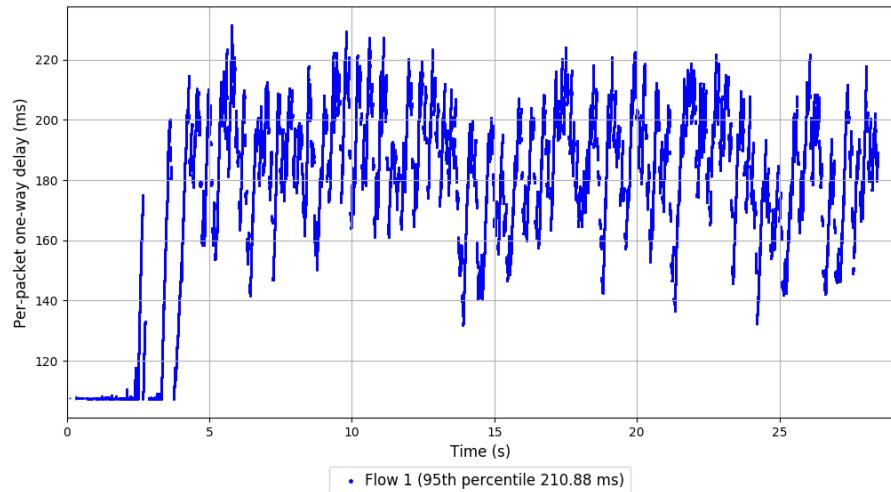
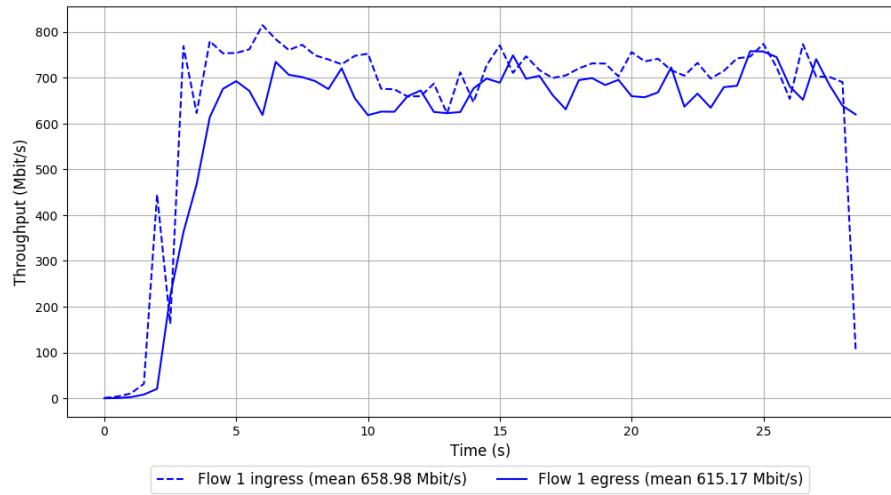


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 18:25:38
End at: 2019-01-18 18:26:08
Local clock offset: 26.85 ms
Remote clock offset: 25.523 ms

# Below is generated by plot.py at 2019-01-18 21:45:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 615.17 Mbit/s
95th percentile per-packet one-way delay: 210.881 ms
Loss rate: 7.36%
-- Flow 1:
Average throughput: 615.17 Mbit/s
95th percentile per-packet one-way delay: 210.881 ms
Loss rate: 7.36%
```

Run 2: Report of Indigo-MusesT — Data Link

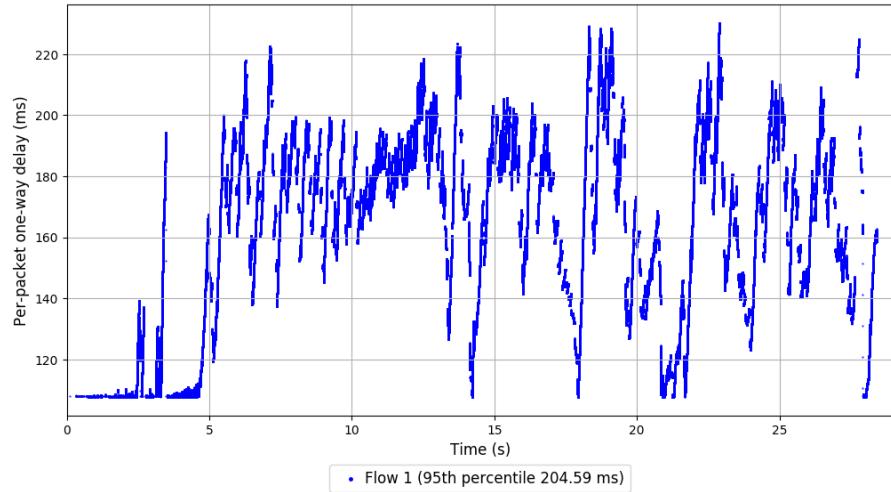
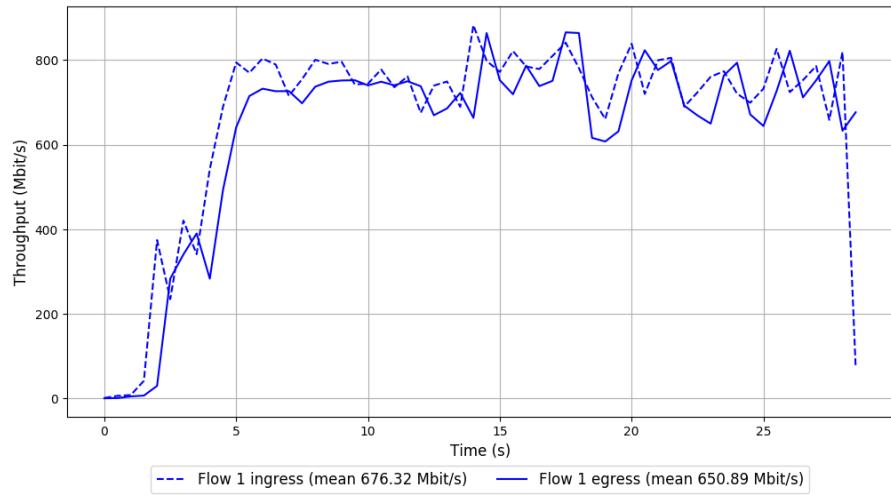


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 18:57:50
End at: 2019-01-18 18:58:21
Local clock offset: 14.825 ms
Remote clock offset: 14.255 ms

# Below is generated by plot.py at 2019-01-18 21:45:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 650.89 Mbit/s
95th percentile per-packet one-way delay: 204.586 ms
Loss rate: 4.50%
-- Flow 1:
Average throughput: 650.89 Mbit/s
95th percentile per-packet one-way delay: 204.586 ms
Loss rate: 4.50%
```

Run 3: Report of Indigo-MusesT — Data Link

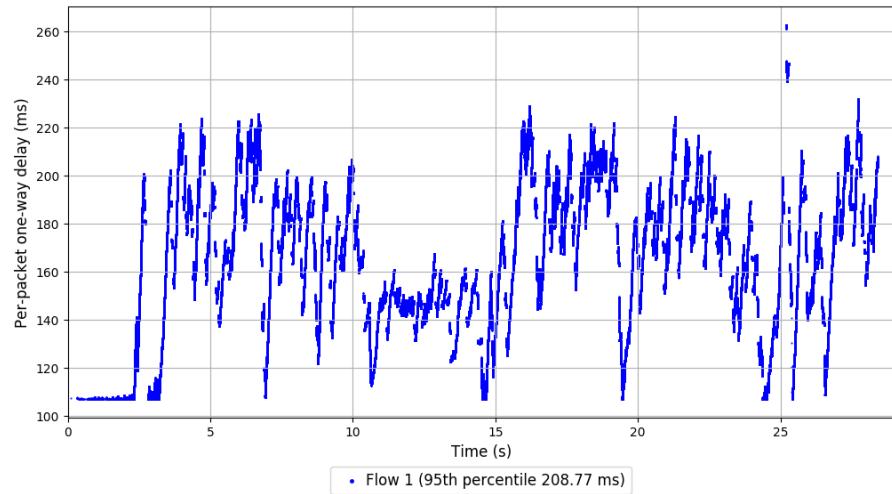
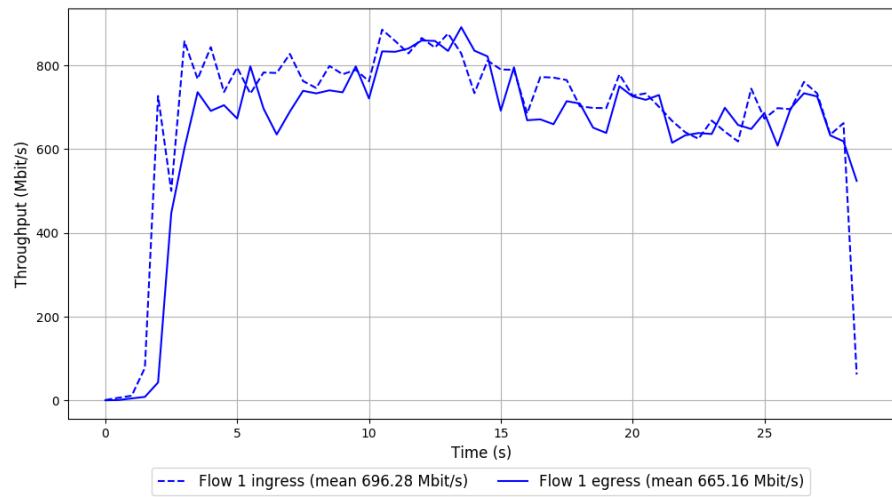


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 19:29:26
End at: 2019-01-18 19:29:56
Local clock offset: 6.162 ms
Remote clock offset: 6.975 ms

# Below is generated by plot.py at 2019-01-18 21:46:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 665.16 Mbit/s
95th percentile per-packet one-way delay: 208.773 ms
Loss rate: 5.20%
-- Flow 1:
Average throughput: 665.16 Mbit/s
95th percentile per-packet one-way delay: 208.773 ms
Loss rate: 5.20%
```

Run 4: Report of Indigo-MusesT — Data Link

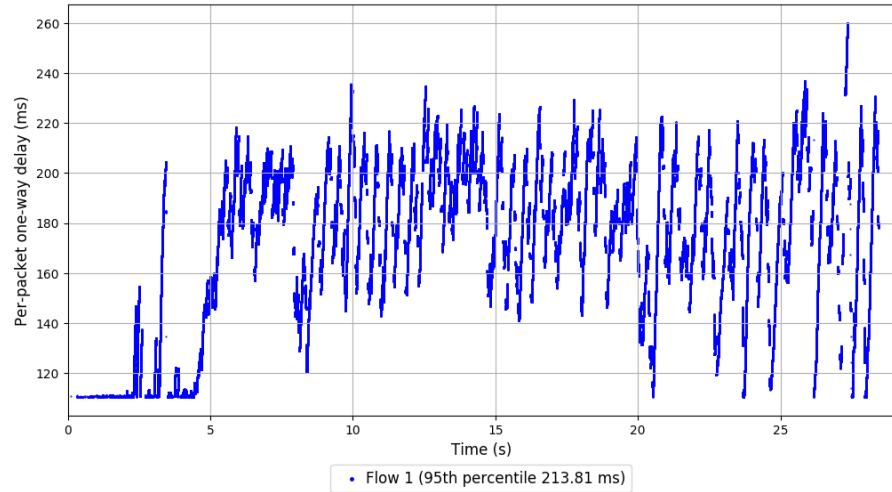
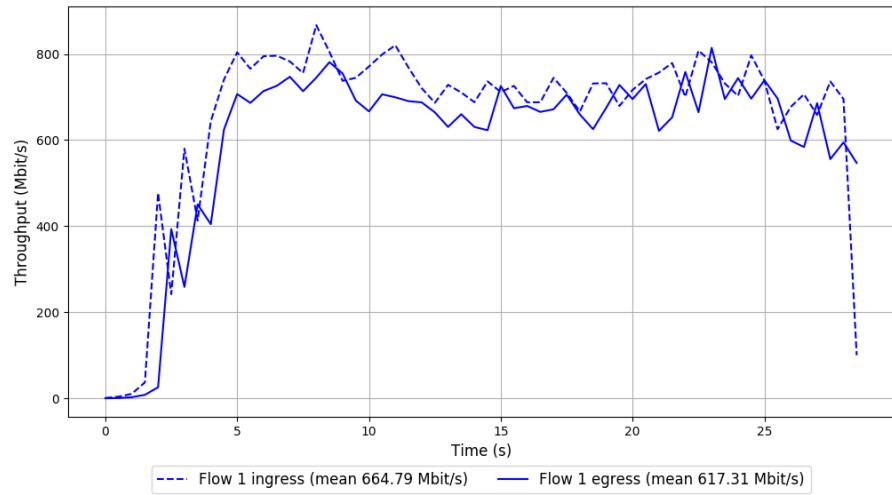


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 20:01:19
End at: 2019-01-18 20:01:49
Local clock offset: 4.058 ms
Remote clock offset: 3.455 ms

# Below is generated by plot.py at 2019-01-18 21:46:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 617.31 Mbit/s
95th percentile per-packet one-way delay: 213.807 ms
Loss rate: 7.86%
-- Flow 1:
Average throughput: 617.31 Mbit/s
95th percentile per-packet one-way delay: 213.807 ms
Loss rate: 7.86%
```

Run 5: Report of Indigo-MusesT — Data Link

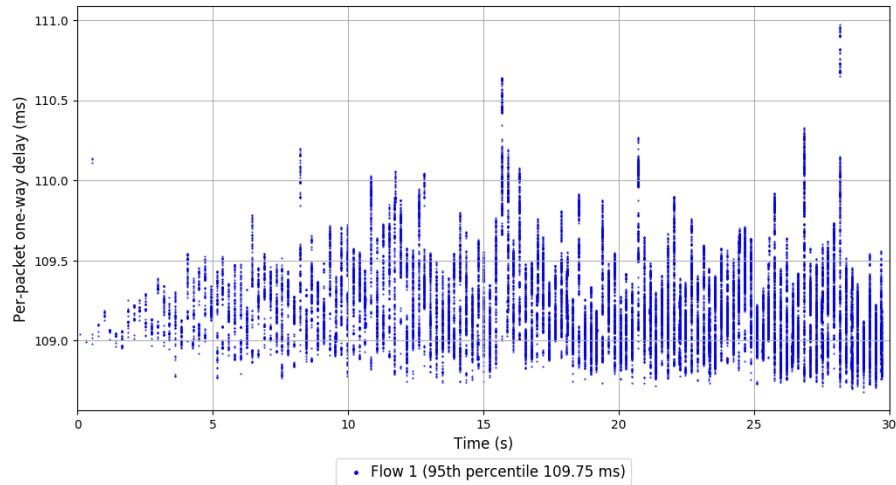
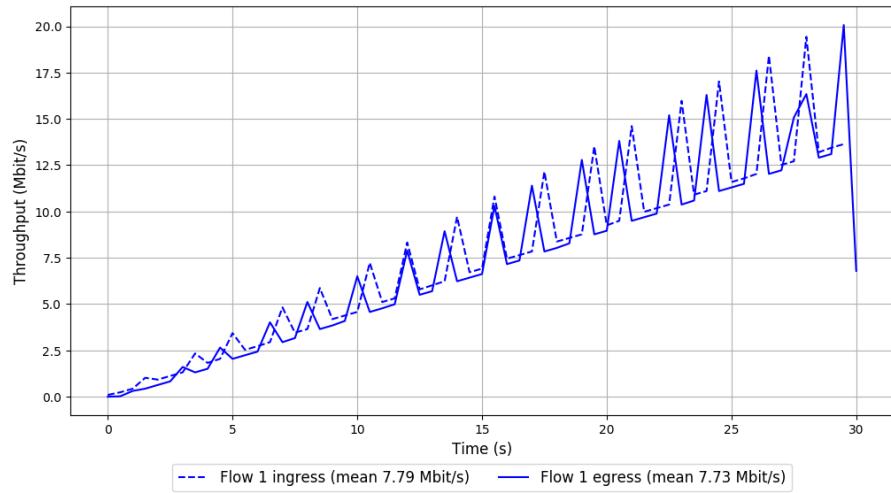


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-18 17:43:14
End at: 2019-01-18 17:43:44
Local clock offset: 11.19 ms
Remote clock offset: 10.617 ms

# Below is generated by plot.py at 2019-01-18 21:46:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 109.751 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 109.751 ms
Loss rate: 1.47%
```

Run 1: Report of LEDBAT — Data Link

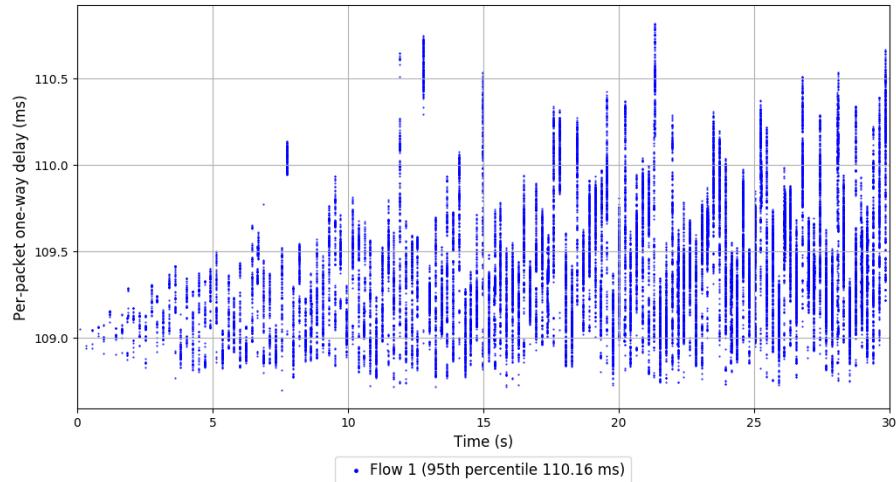
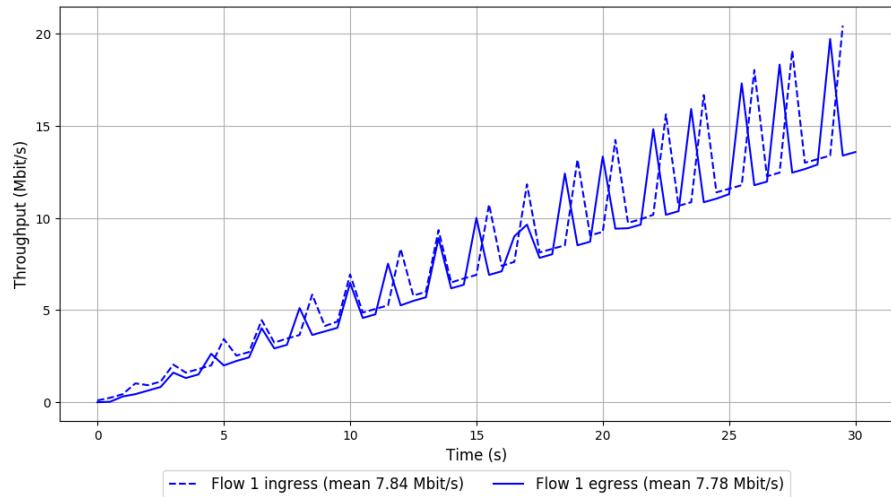


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-18 18:15:32
End at: 2019-01-18 18:16:02
Local clock offset: 20.7 ms
Remote clock offset: 18.627 ms

# Below is generated by plot.py at 2019-01-18 21:46:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 110.158 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 110.158 ms
Loss rate: 1.46%
```

Run 2: Report of LEDBAT — Data Link

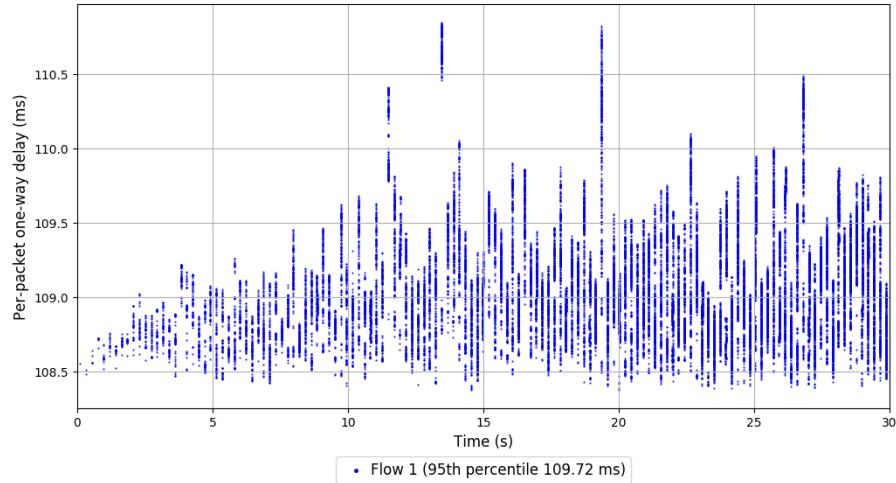
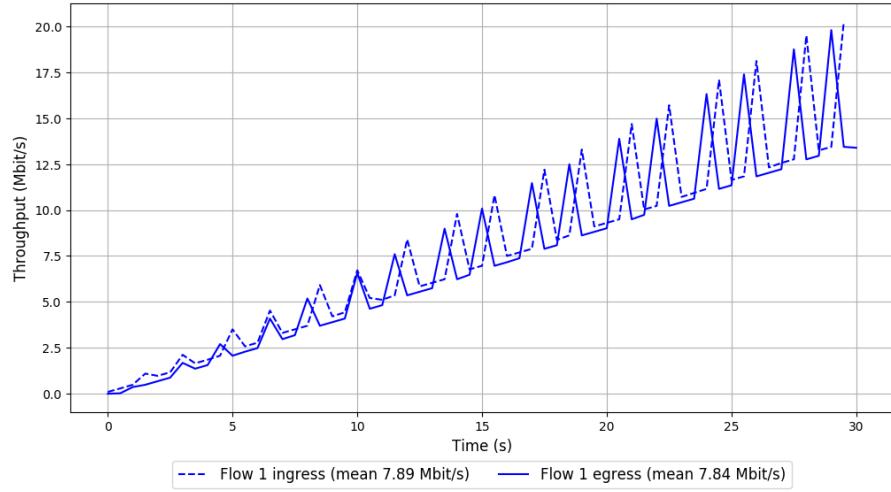


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-18 18:47:22
End at: 2019-01-18 18:47:52
Local clock offset: 19.173 ms
Remote clock offset: 17.703 ms

# Below is generated by plot.py at 2019-01-18 21:46:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 109.721 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 109.721 ms
Loss rate: 1.45%
```

Run 3: Report of LEDBAT — Data Link

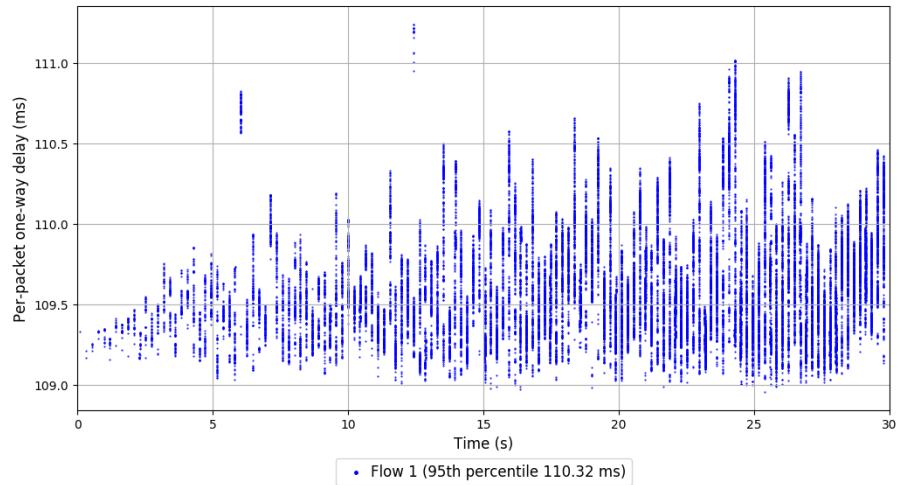
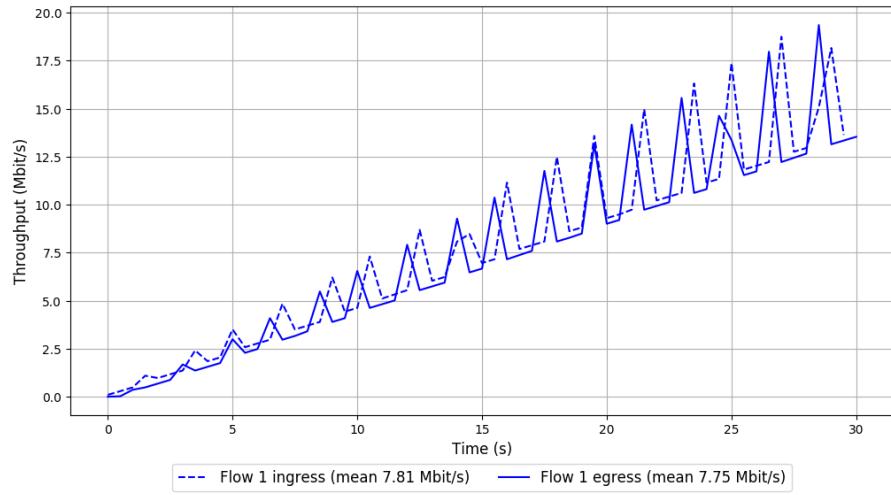


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-18 19:19:22
End at: 2019-01-18 19:19:52
Local clock offset: 10.6 ms
Remote clock offset: 10.02 ms

# Below is generated by plot.py at 2019-01-18 21:46:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 110.323 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 110.323 ms
Loss rate: 1.47%
```

Run 4: Report of LEDBAT — Data Link

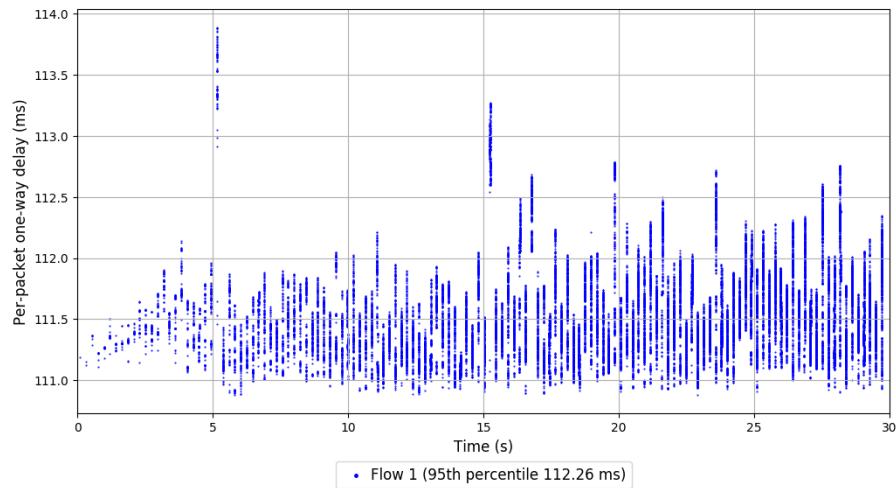
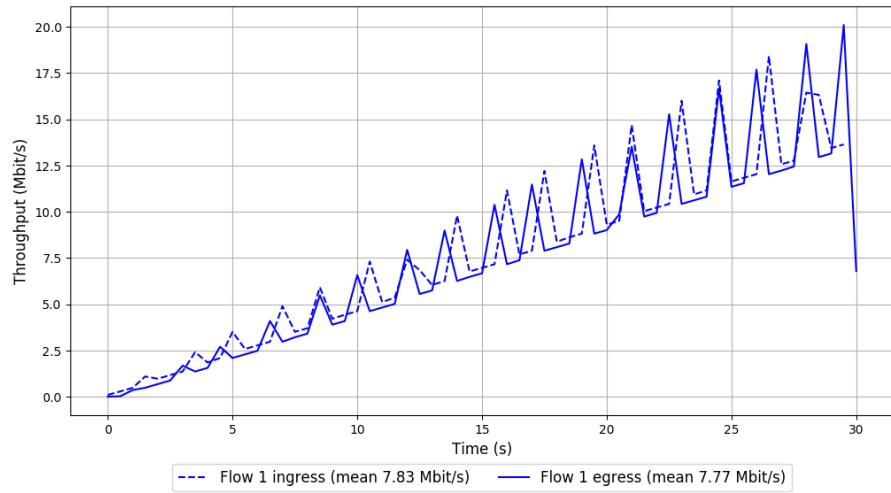


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-18 19:51:22
End at: 2019-01-18 19:51:52
Local clock offset: 7.12 ms
Remote clock offset: 5.425 ms

# Below is generated by plot.py at 2019-01-18 21:46:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 112.261 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 112.261 ms
Loss rate: 1.47%
```

Run 5: Report of LEDBAT — Data Link

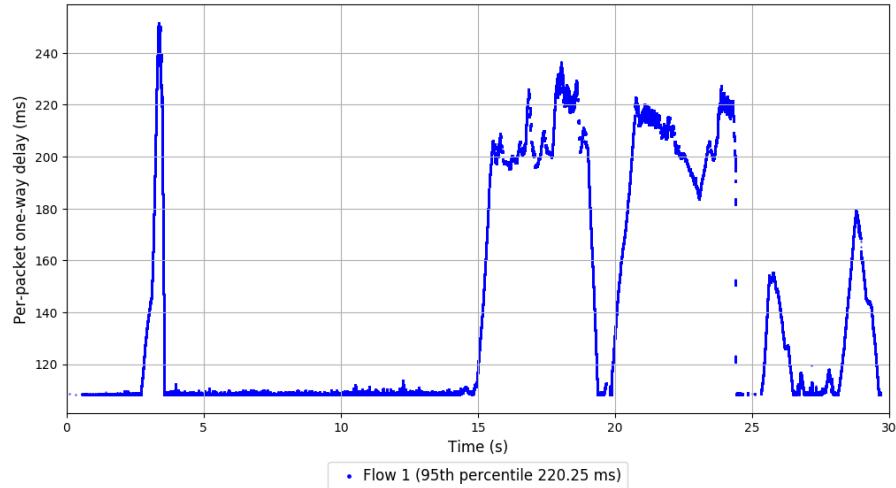
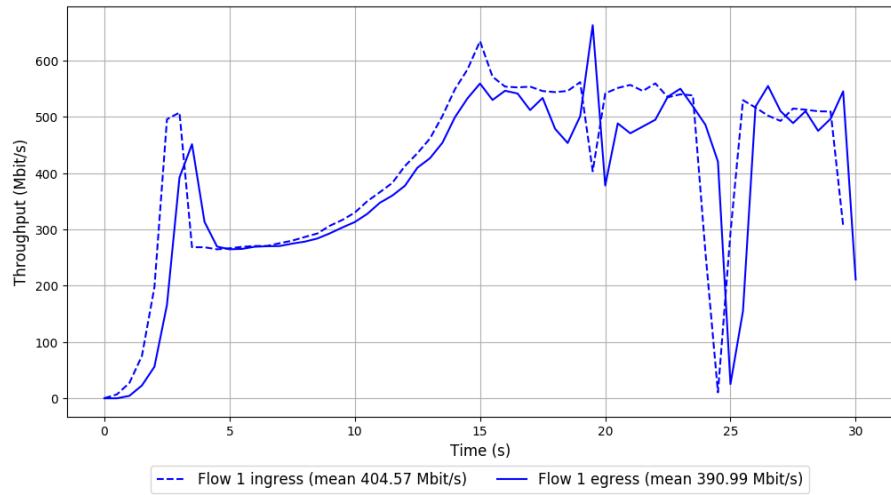


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-18 17:47:58
End at: 2019-01-18 17:48:29
Local clock offset: 15.06 ms
Remote clock offset: 14.801 ms

# Below is generated by plot.py at 2019-01-18 21:52:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.99 Mbit/s
95th percentile per-packet one-way delay: 220.250 ms
Loss rate: 4.07%
-- Flow 1:
Average throughput: 390.99 Mbit/s
95th percentile per-packet one-way delay: 220.250 ms
Loss rate: 4.07%
```

Run 1: Report of PCC-Allegro — Data Link

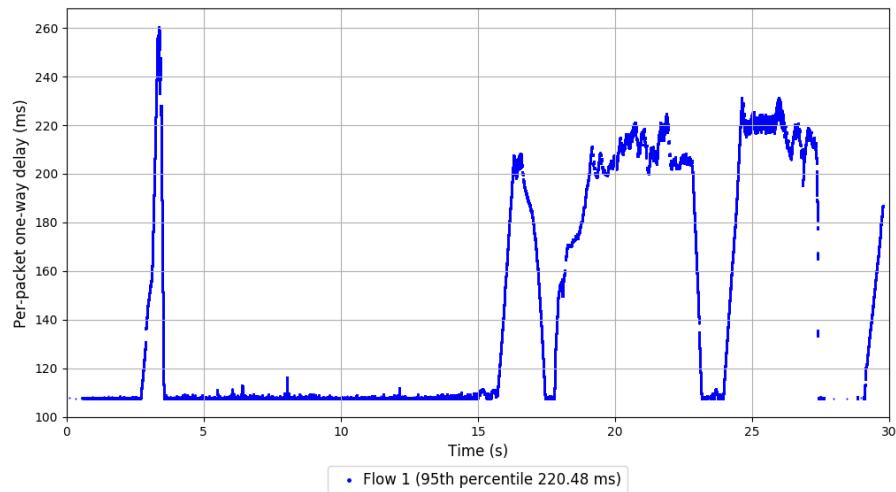
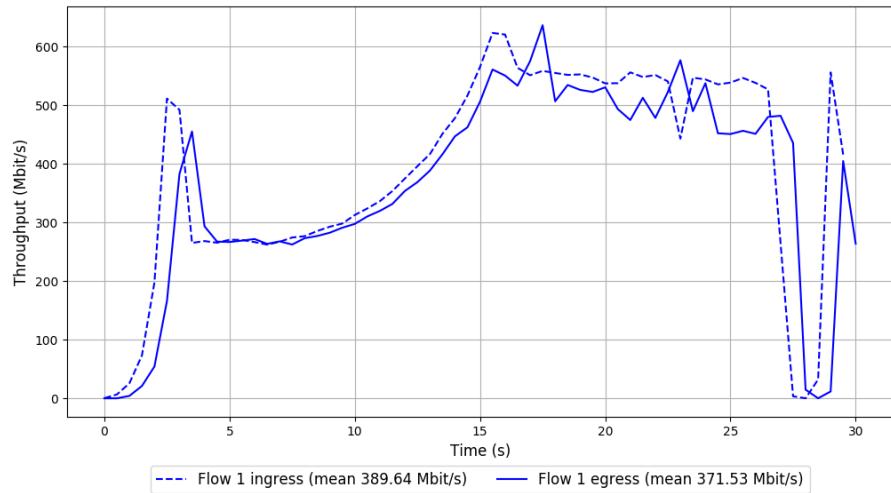


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-18 18:19:54
End at: 2019-01-18 18:20:24
Local clock offset: 22.227 ms
Remote clock offset: 21.151 ms

# Below is generated by plot.py at 2019-01-18 21:54:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 371.53 Mbit/s
95th percentile per-packet one-way delay: 220.482 ms
Loss rate: 5.34%
-- Flow 1:
Average throughput: 371.53 Mbit/s
95th percentile per-packet one-way delay: 220.482 ms
Loss rate: 5.34%
```

Run 2: Report of PCC-Allegro — Data Link

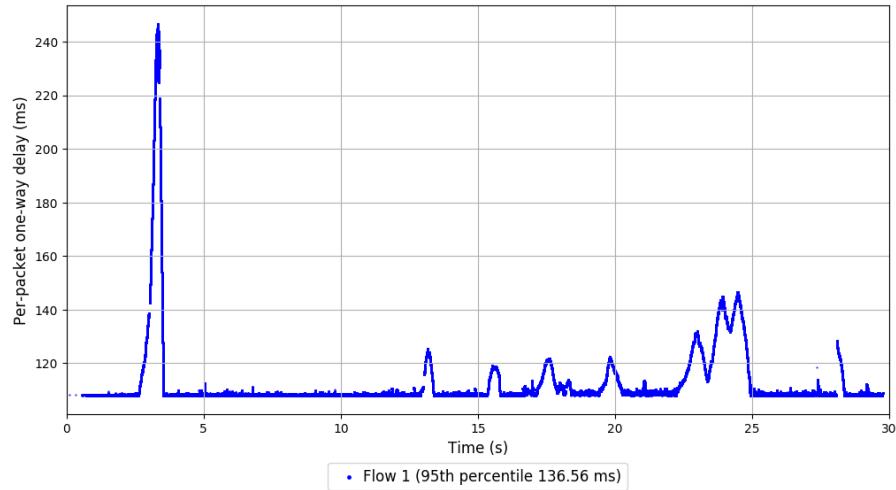
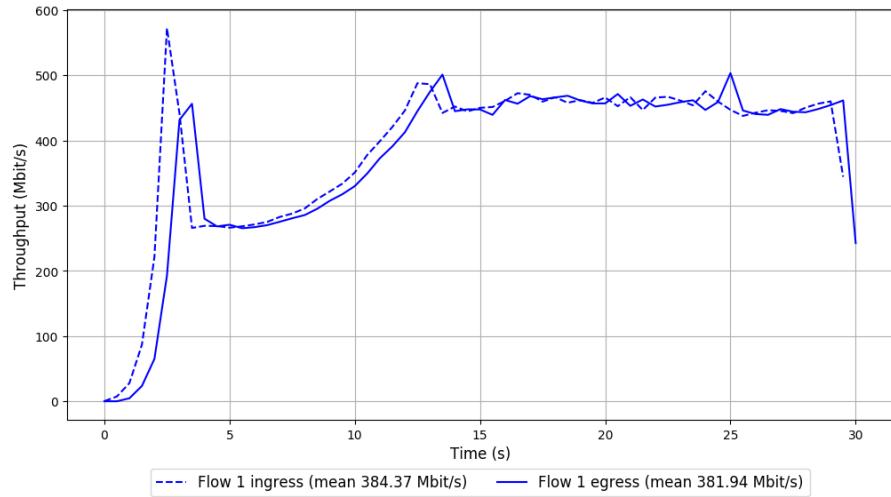


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-18 18:52:00
End at: 2019-01-18 18:52:30
Local clock offset: 15.531 ms
Remote clock offset: 14.803 ms

# Below is generated by plot.py at 2019-01-18 21:55:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 381.94 Mbit/s
95th percentile per-packet one-way delay: 136.558 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 381.94 Mbit/s
95th percentile per-packet one-way delay: 136.558 ms
Loss rate: 1.36%
```

Run 3: Report of PCC-Allegro — Data Link

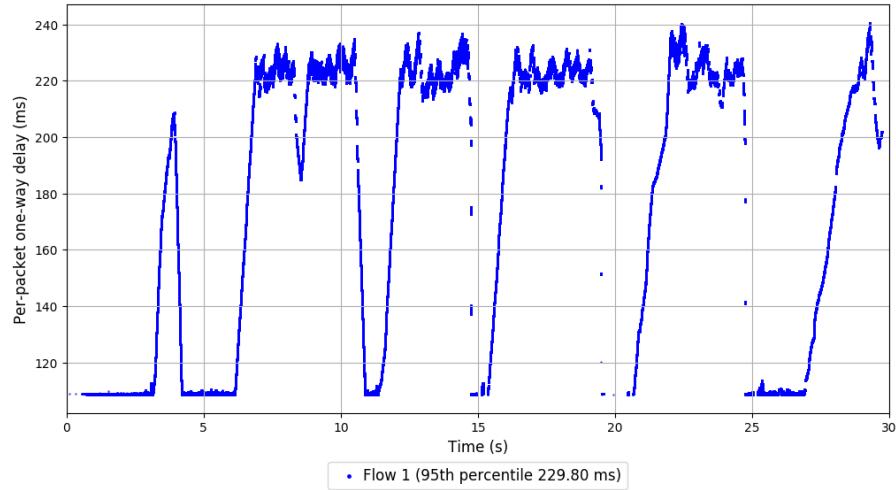
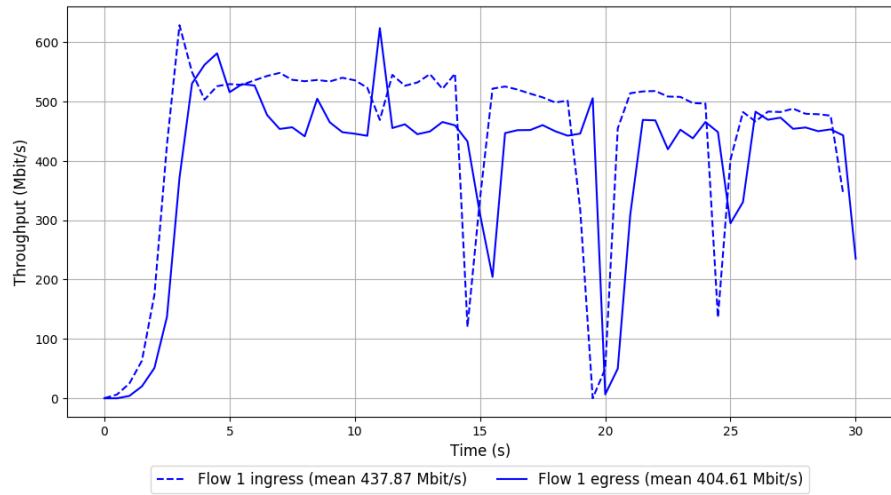


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-18 19:23:41
End at: 2019-01-18 19:24:11
Local clock offset: 7.918 ms
Remote clock offset: 7.938 ms

# Below is generated by plot.py at 2019-01-18 22:03:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 404.61 Mbit/s
95th percentile per-packet one-way delay: 229.804 ms
Loss rate: 8.28%
-- Flow 1:
Average throughput: 404.61 Mbit/s
95th percentile per-packet one-way delay: 229.804 ms
Loss rate: 8.28%
```

Run 4: Report of PCC-Allegro — Data Link

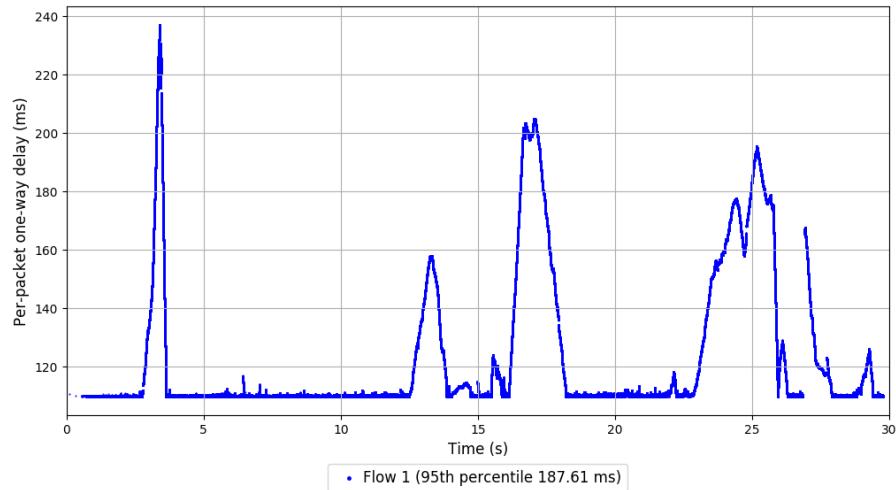
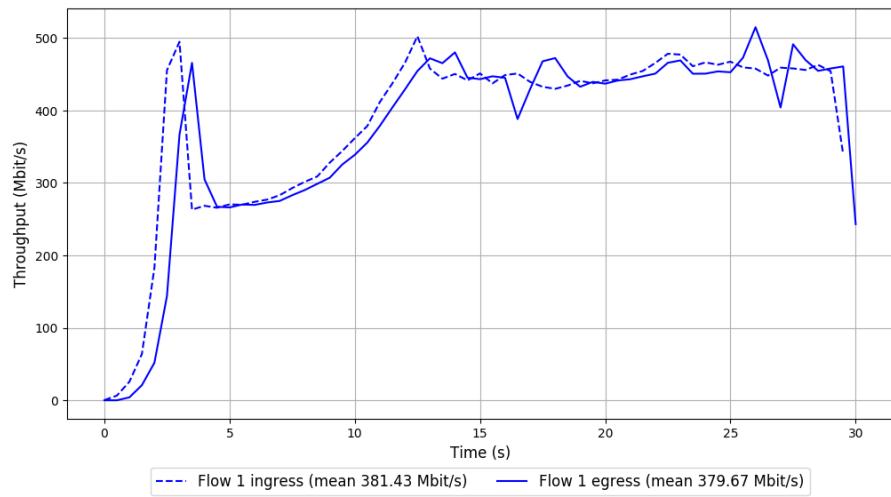


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-18 19:55:39
End at: 2019-01-18 19:56:09
Local clock offset: 4.284 ms
Remote clock offset: 4.309 ms

# Below is generated by plot.py at 2019-01-18 22:03:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 379.67 Mbit/s
95th percentile per-packet one-way delay: 187.611 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 379.67 Mbit/s
95th percentile per-packet one-way delay: 187.611 ms
Loss rate: 1.20%
```

Run 5: Report of PCC-Allegro — Data Link

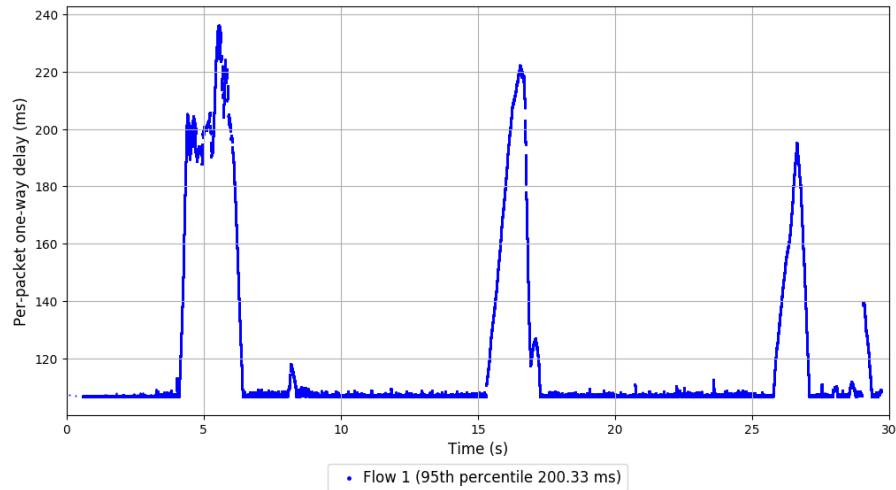
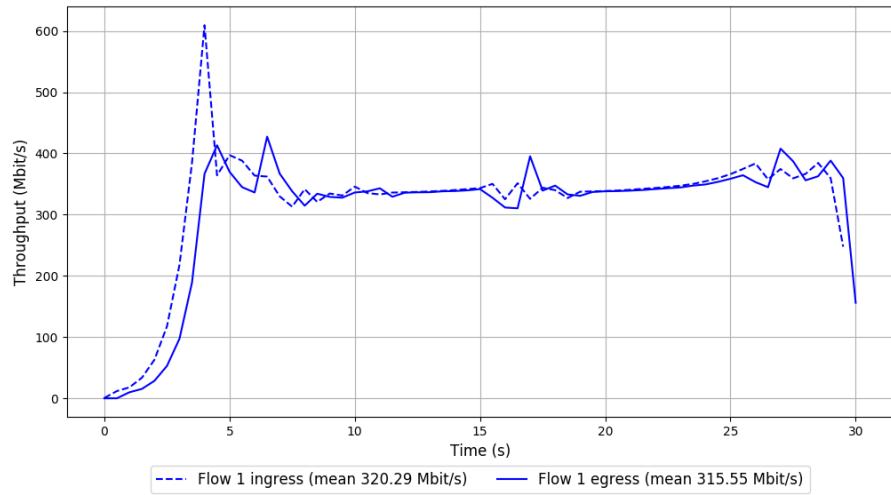


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-18 17:59:13
End at: 2019-01-18 17:59:43
Local clock offset: 18.871 ms
Remote clock offset: 18.842 ms

# Below is generated by plot.py at 2019-01-18 22:03:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.55 Mbit/s
95th percentile per-packet one-way delay: 200.326 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 315.55 Mbit/s
95th percentile per-packet one-way delay: 200.326 ms
Loss rate: 2.20%
```

Run 1: Report of PCC-Expr — Data Link

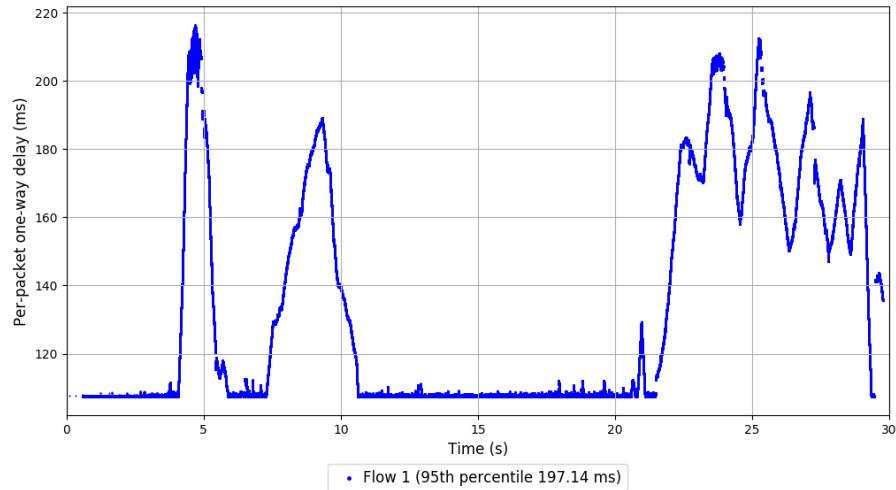
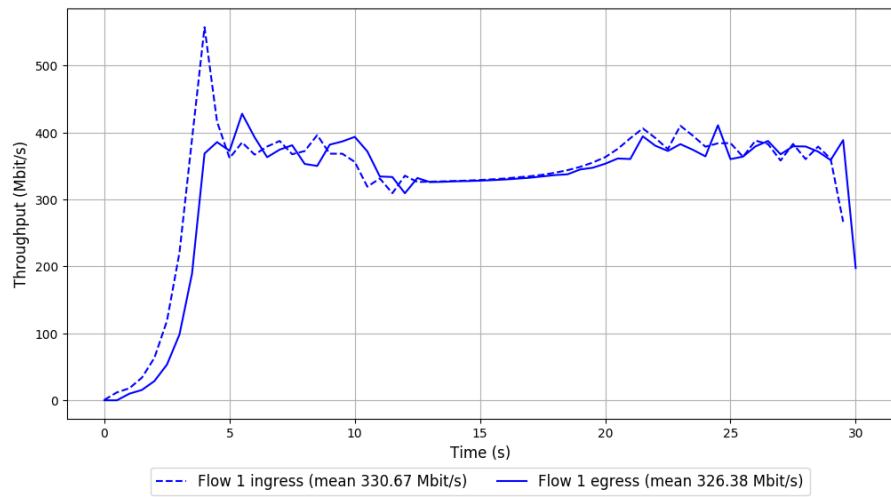


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-18 18:30:36
End at: 2019-01-18 18:31:06
Local clock offset: 31.747 ms
Remote clock offset: 29.966 ms

# Below is generated by plot.py at 2019-01-18 22:03:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.38 Mbit/s
95th percentile per-packet one-way delay: 197.142 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 326.38 Mbit/s
95th percentile per-packet one-way delay: 197.142 ms
Loss rate: 2.02%
```

Run 2: Report of PCC-Expr — Data Link

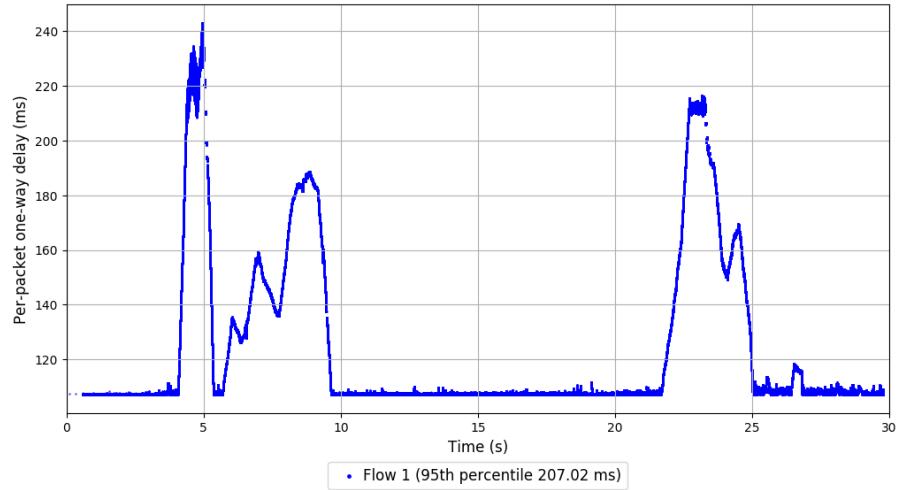
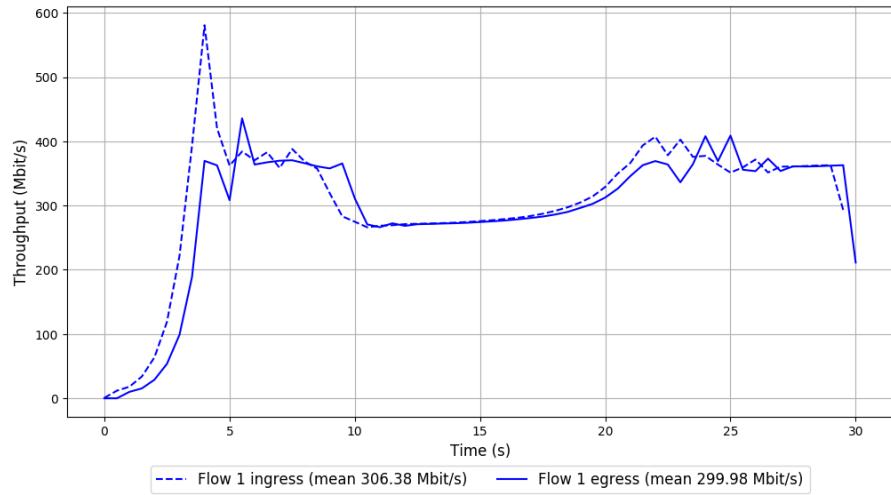


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-18 19:02:54
End at: 2019-01-18 19:03:24
Local clock offset: 15.282 ms
Remote clock offset: 15.275 ms

# Below is generated by plot.py at 2019-01-18 22:03:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 299.98 Mbit/s
95th percentile per-packet one-way delay: 207.016 ms
Loss rate: 2.80%
-- Flow 1:
Average throughput: 299.98 Mbit/s
95th percentile per-packet one-way delay: 207.016 ms
Loss rate: 2.80%
```

Run 3: Report of PCC-Expr — Data Link

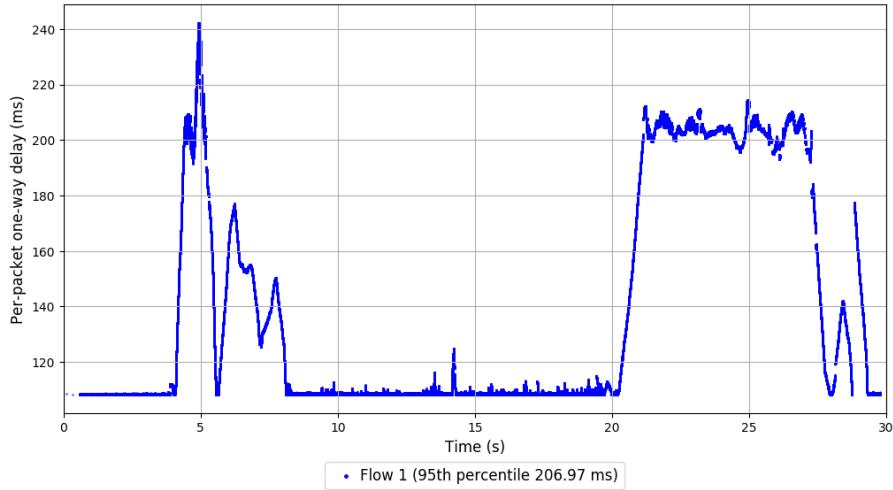
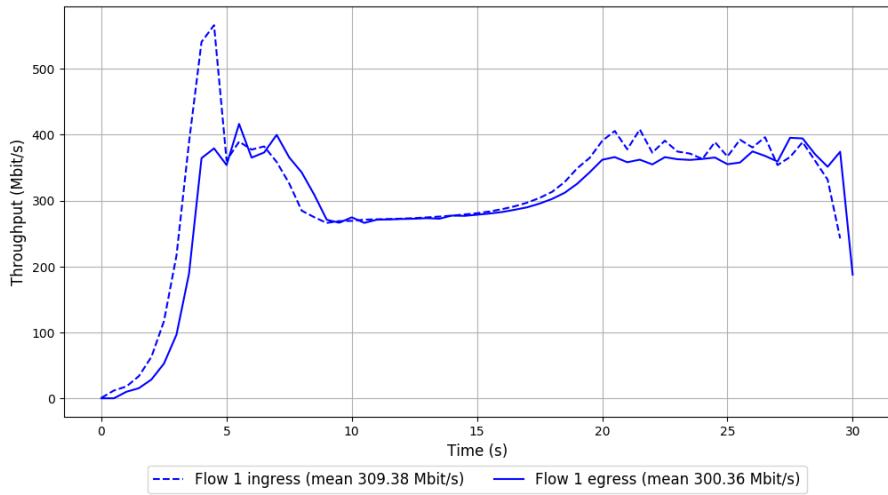


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-18 19:34:35
End at: 2019-01-18 19:35:05
Local clock offset: 6.957 ms
Remote clock offset: 7.13 ms

# Below is generated by plot.py at 2019-01-18 22:06:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.36 Mbit/s
95th percentile per-packet one-way delay: 206.974 ms
Loss rate: 3.63%
-- Flow 1:
Average throughput: 300.36 Mbit/s
95th percentile per-packet one-way delay: 206.974 ms
Loss rate: 3.63%
```

Run 4: Report of PCC-Expr — Data Link

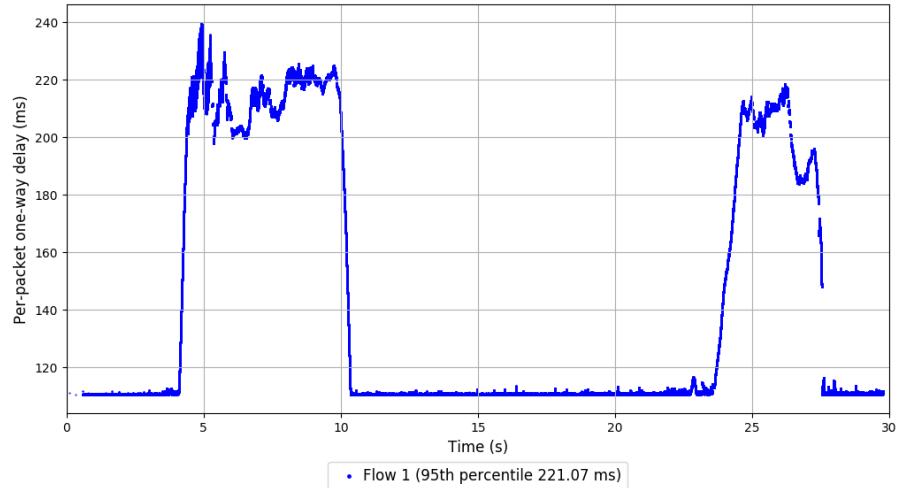
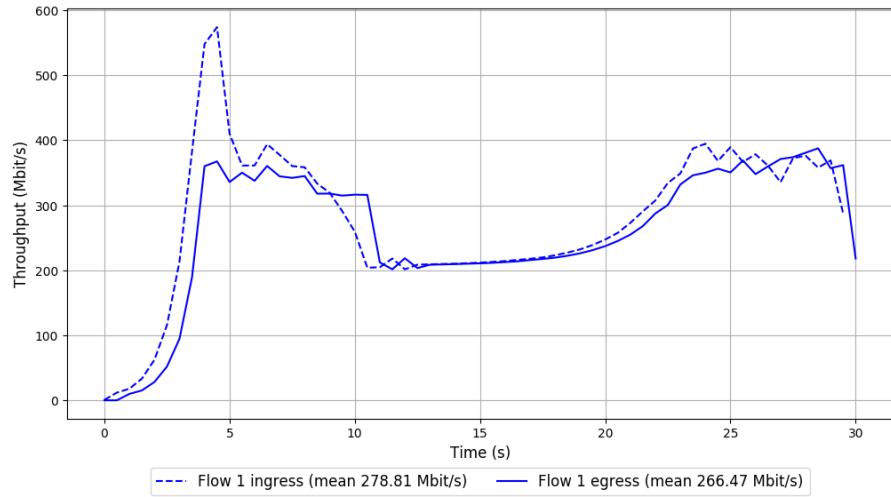


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-18 20:06:18
End at: 2019-01-18 20:06:48
Local clock offset: 3.482 ms
Remote clock offset: 3.403 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 266.47 Mbit/s
95th percentile per-packet one-way delay: 221.075 ms
Loss rate: 5.13%
-- Flow 1:
Average throughput: 266.47 Mbit/s
95th percentile per-packet one-way delay: 221.075 ms
Loss rate: 5.13%
```

Run 5: Report of PCC-Expr — Data Link

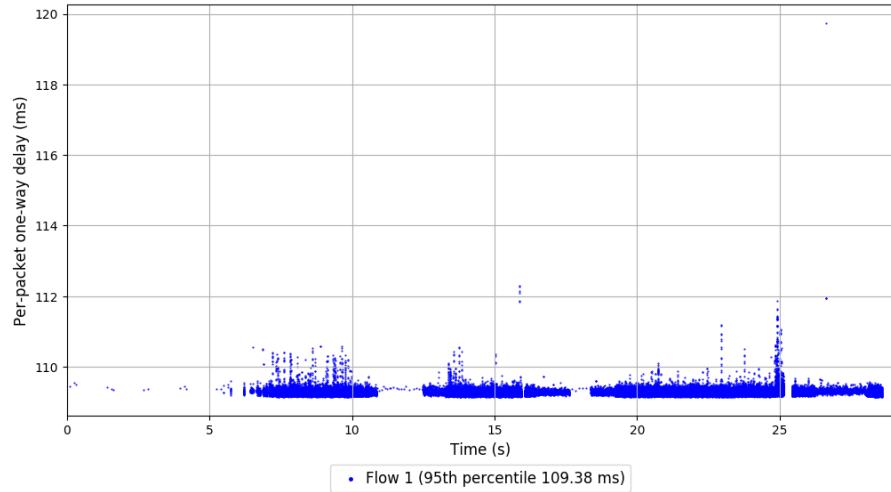
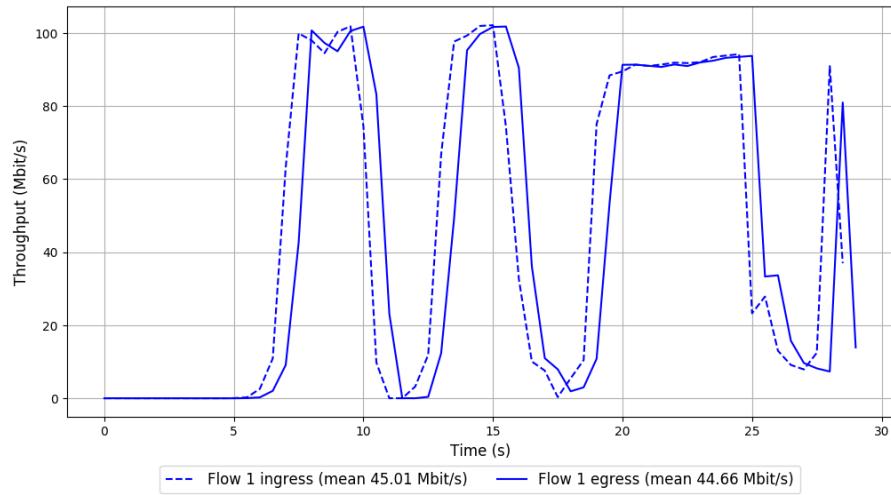


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-01-18 17:50:56
End at: 2019-01-18 17:51:26
Local clock offset: 13.529 ms
Remote clock offset: 12.329 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.66 Mbit/s
95th percentile per-packet one-way delay: 109.380 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 44.66 Mbit/s
95th percentile per-packet one-way delay: 109.380 ms
Loss rate: 1.54%
```

Run 1: Report of QUIC Cubic — Data Link

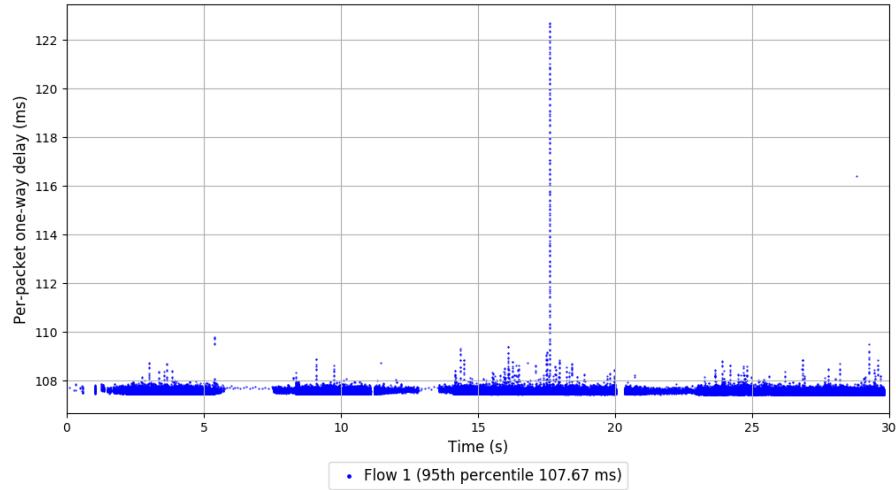
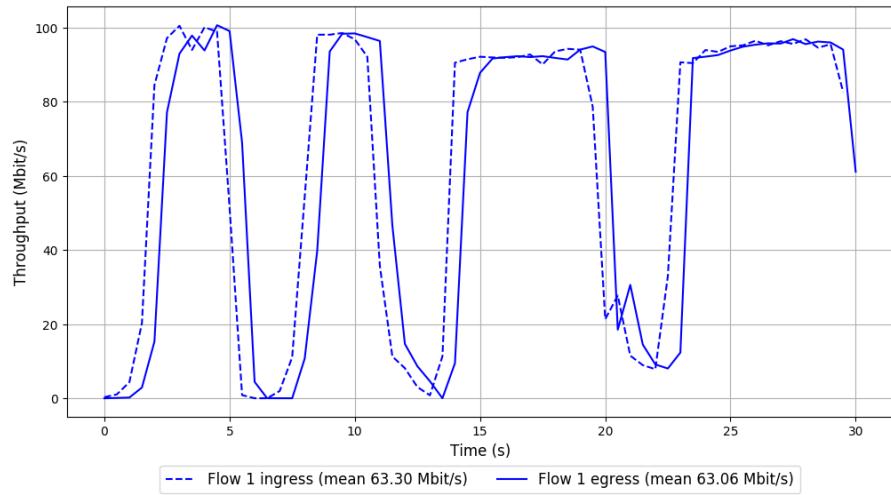


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-18 18:22:47
End at: 2019-01-18 18:23:17
Local clock offset: 24.425 ms
Remote clock offset: 23.154 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.06 Mbit/s
95th percentile per-packet one-way delay: 107.670 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 63.06 Mbit/s
95th percentile per-packet one-way delay: 107.670 ms
Loss rate: 1.11%
```

Run 2: Report of QUIC Cubic — Data Link

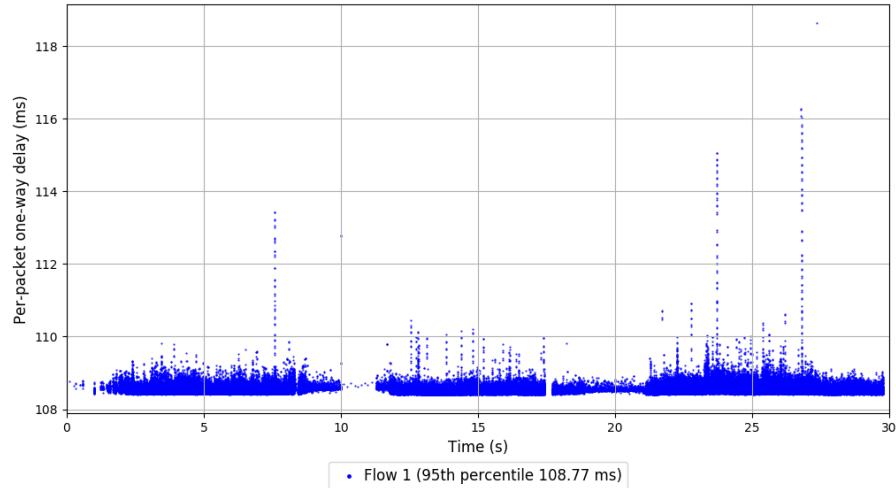
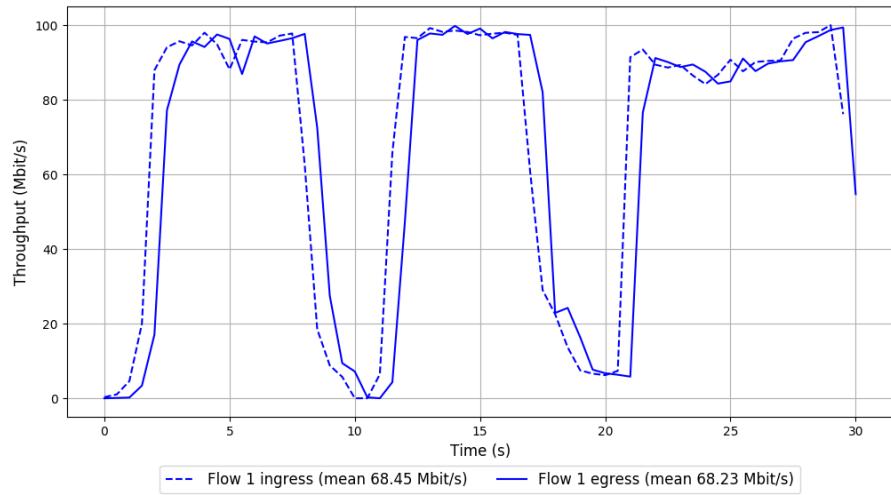


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-18 18:54:53
End at: 2019-01-18 18:55:23
Local clock offset: 15.527 ms
Remote clock offset: 14.184 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.23 Mbit/s
95th percentile per-packet one-way delay: 108.765 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 68.23 Mbit/s
95th percentile per-packet one-way delay: 108.765 ms
Loss rate: 1.05%
```

Run 3: Report of QUIC Cubic — Data Link

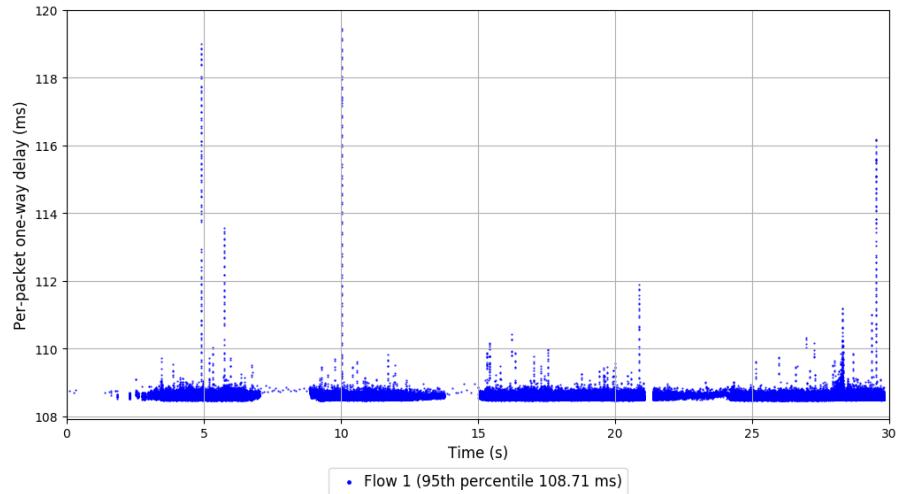
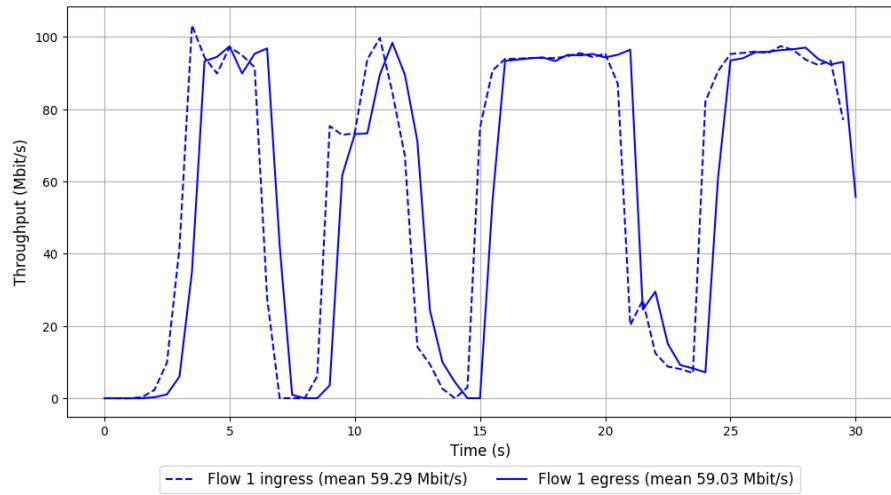


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-18 19:26:33
End at: 2019-01-18 19:27:03
Local clock offset: 7.218 ms
Remote clock offset: 7.279 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.03 Mbit/s
95th percentile per-packet one-way delay: 108.713 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 59.03 Mbit/s
95th percentile per-packet one-way delay: 108.713 ms
Loss rate: 1.18%
```

Run 4: Report of QUIC Cubic — Data Link

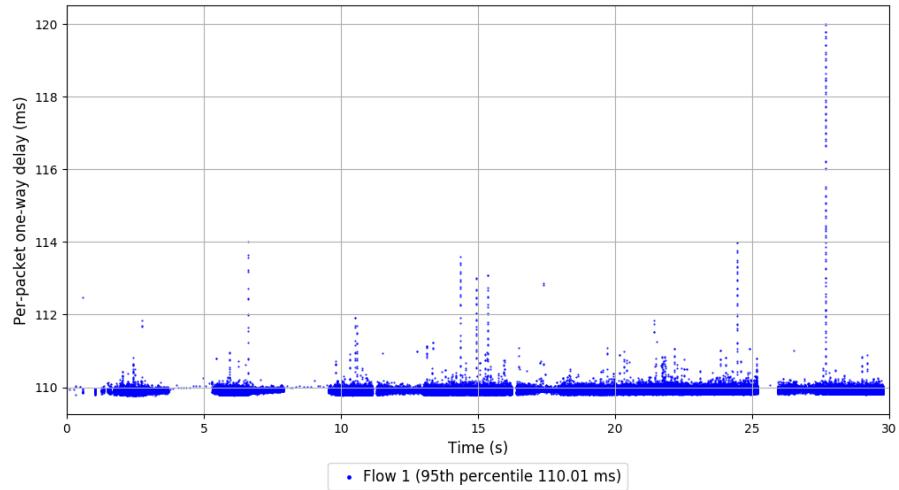
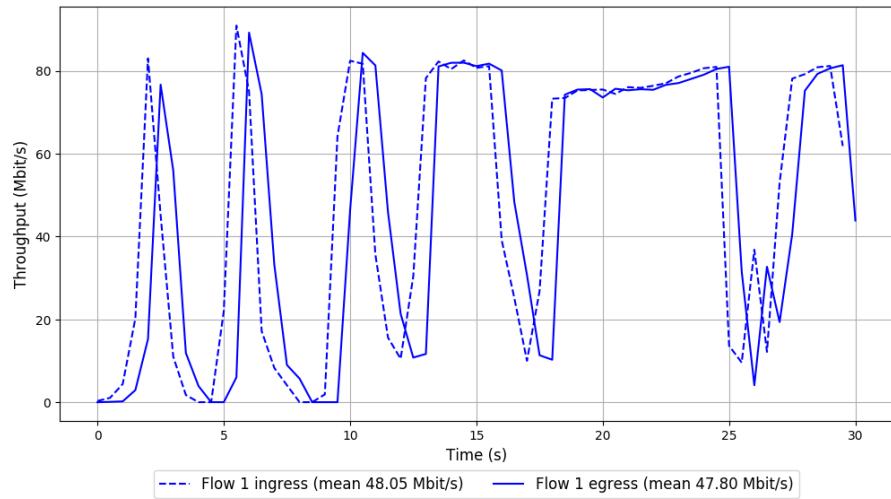


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-18 19:58:30
End at: 2019-01-18 19:59:00
Local clock offset: 3.599 ms
Remote clock offset: 3.744 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.80 Mbit/s
95th percentile per-packet one-way delay: 110.013 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 47.80 Mbit/s
95th percentile per-packet one-way delay: 110.013 ms
Loss rate: 1.24%
```

Run 5: Report of QUIC Cubic — Data Link

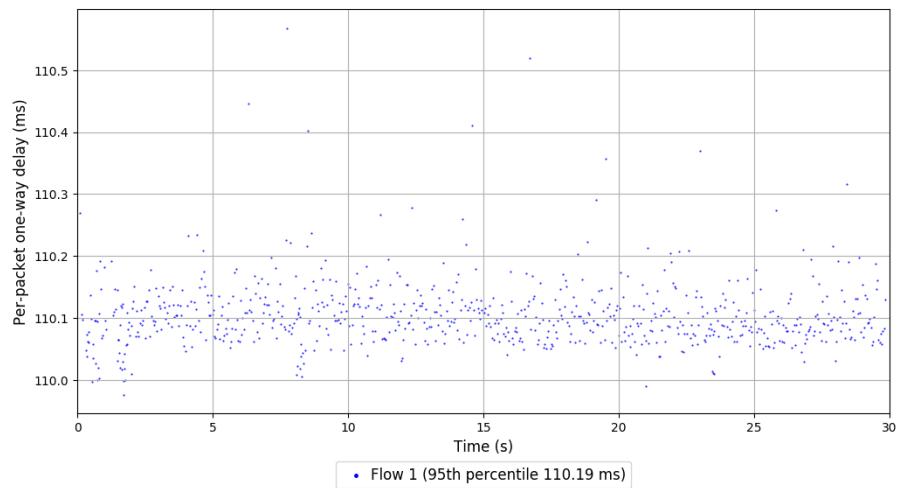
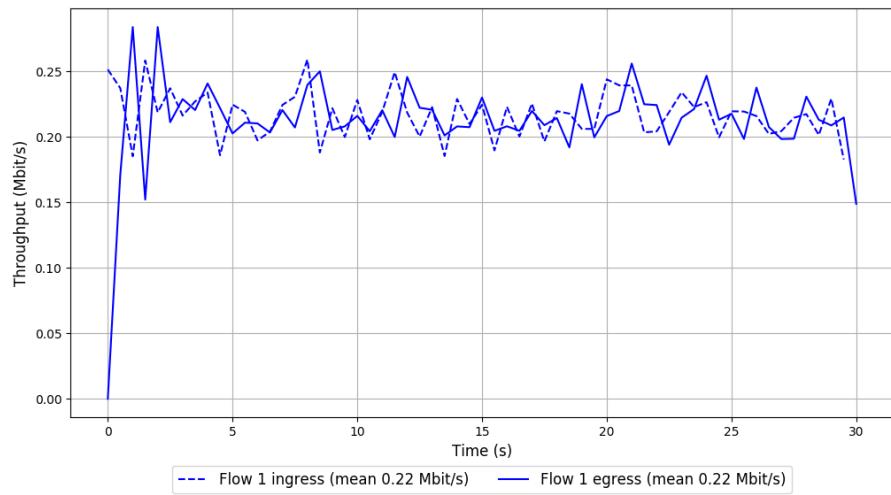


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-01-18 17:34:49
End at: 2019-01-18 17:35:19
Local clock offset: 6.551 ms
Remote clock offset: 5.682 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.190 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.190 ms
Loss rate: 0.64%
```

Run 1: Report of SCReAM — Data Link

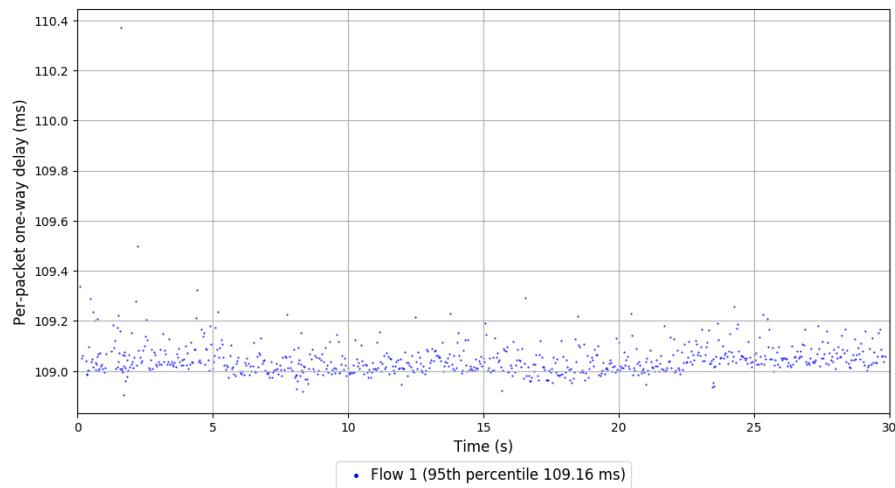
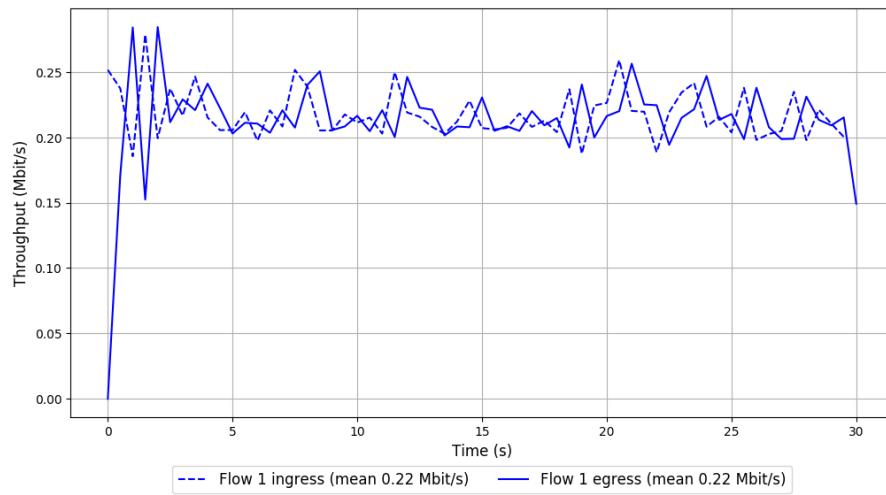


Run 2: Statistics of SCReAM

```
Start at: 2019-01-18 18:07:10
End at: 2019-01-18 18:07:40
Local clock offset: 22.173 ms
Remote clock offset: 20.89 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.164 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.164 ms
Loss rate: 0.77%
```

Run 2: Report of SCReAM — Data Link

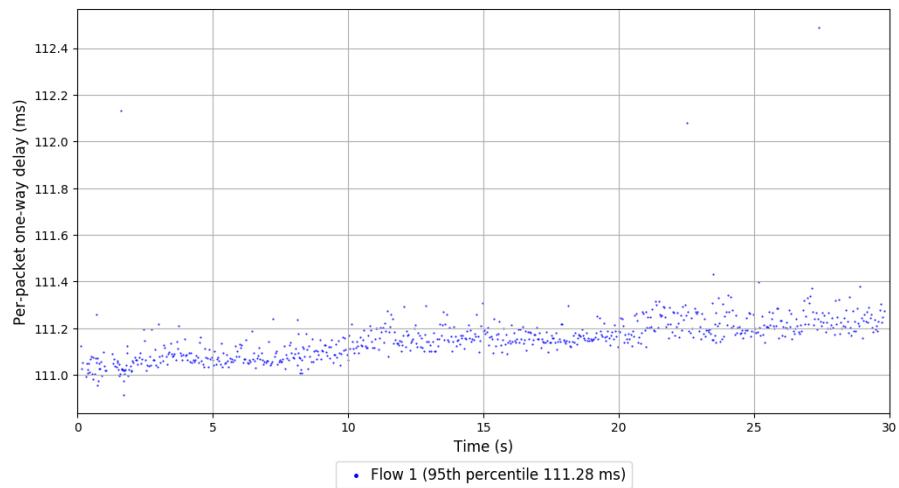
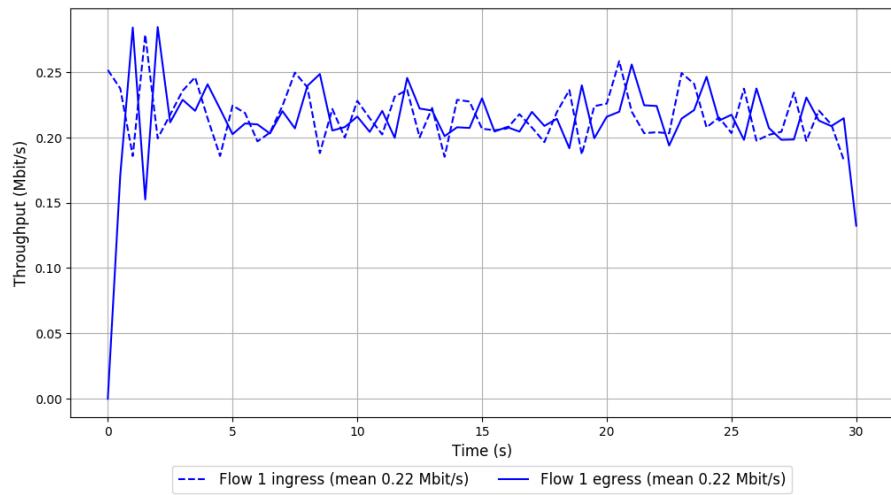


Run 3: Statistics of SCReAM

```
Start at: 2019-01-18 18:38:39
End at: 2019-01-18 18:39:09
Local clock offset: 39.855 ms
Remote clock offset: 35.387 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.280 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.280 ms
Loss rate: 0.77%
```

Run 3: Report of SCReAM — Data Link

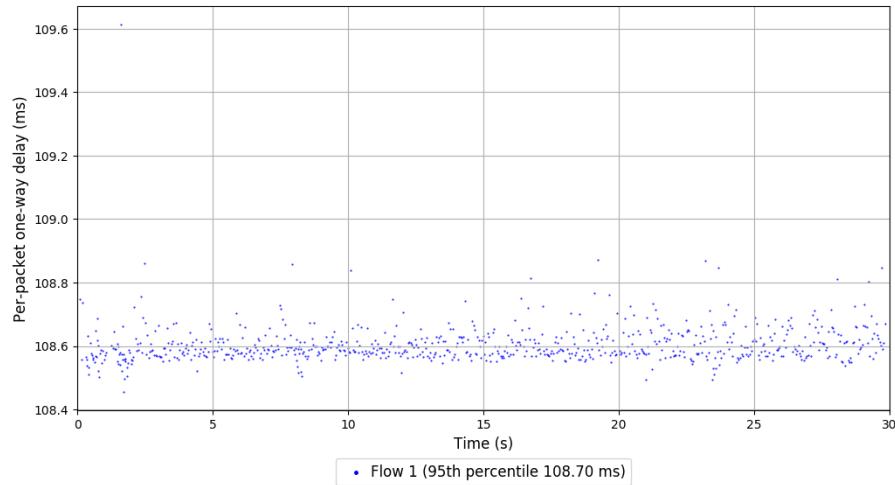
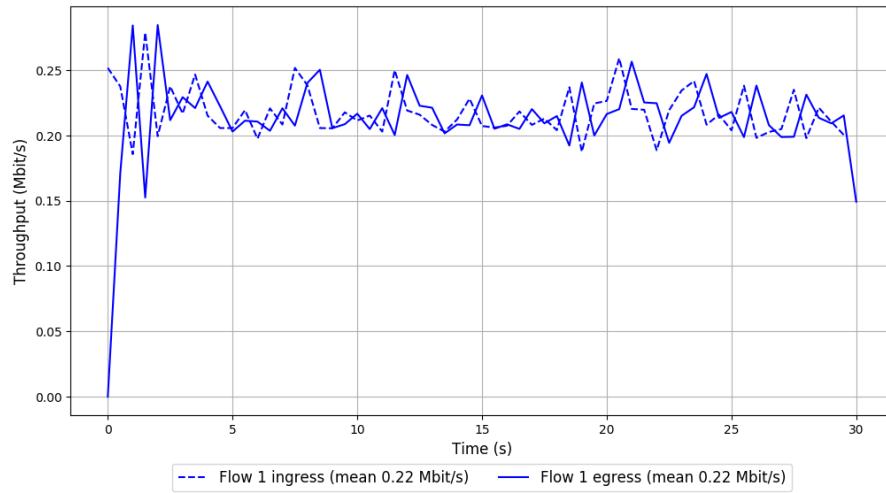


Run 4: Statistics of SCReAM

```
Start at: 2019-01-18 19:10:53
End at: 2019-01-18 19:11:23
Local clock offset: 19.203 ms
Remote clock offset: 18.371 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.700 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.700 ms
Loss rate: 0.77%
```

Run 4: Report of SCReAM — Data Link

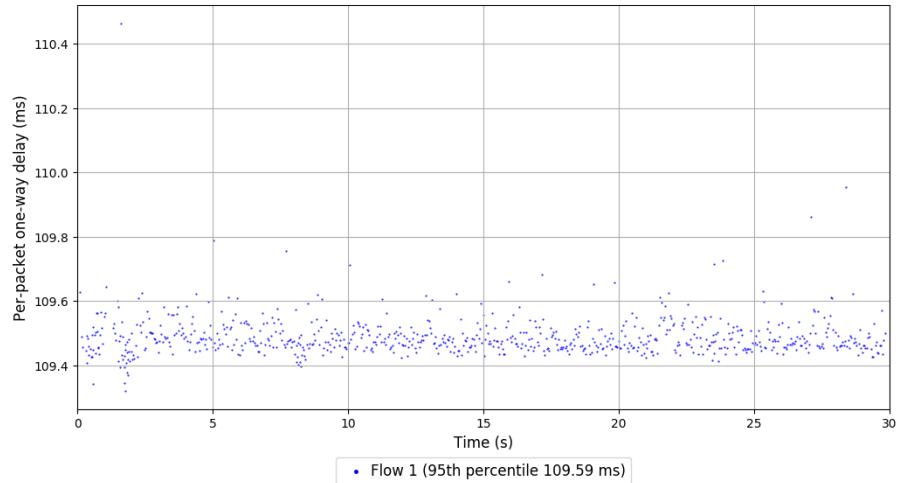
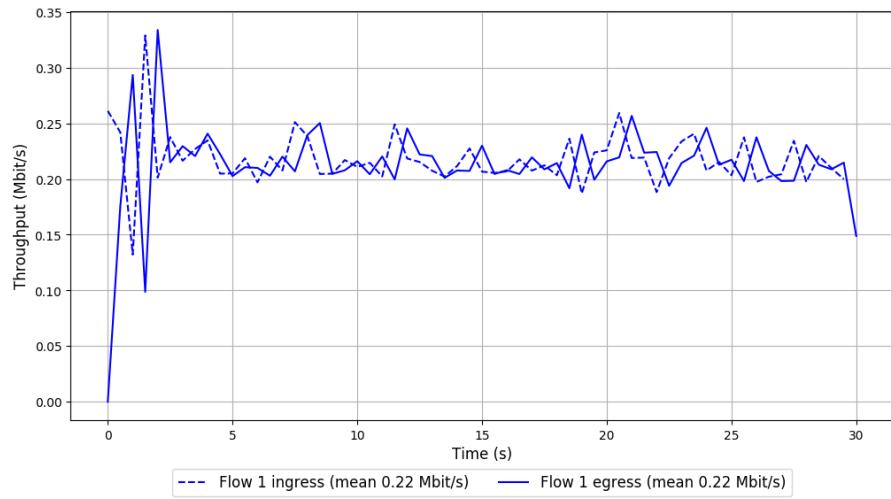


Run 5: Statistics of SCReAM

```
Start at: 2019-01-18 19:42:45
End at: 2019-01-18 19:43:15
Local clock offset: 8.921 ms
Remote clock offset: 8.399 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.590 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.590 ms
Loss rate: 0.77%
```

Run 5: Report of SCReAM — Data Link

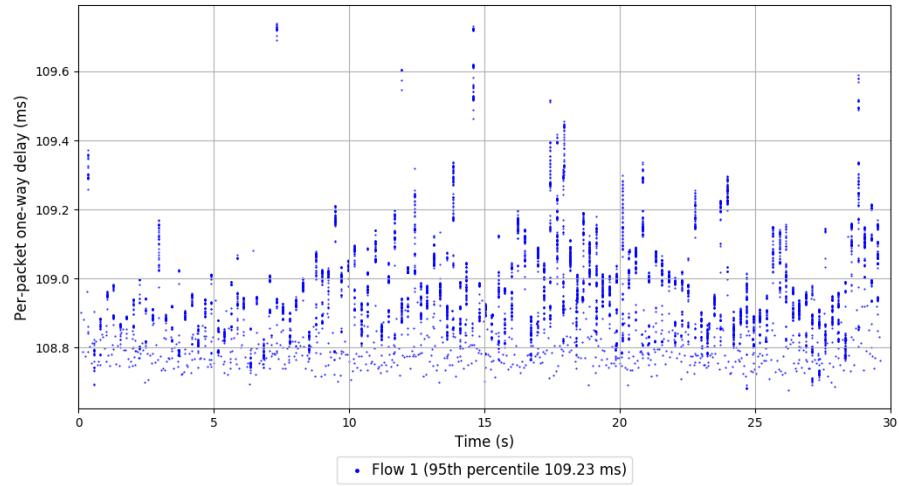
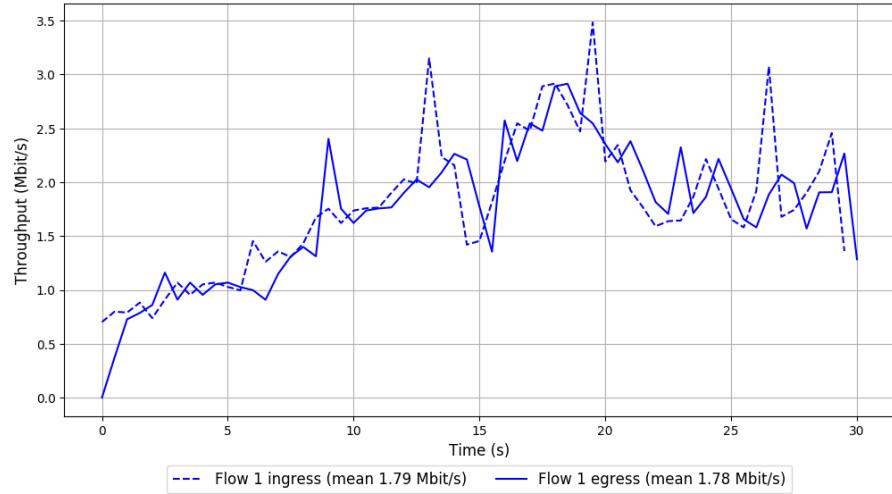


Run 1: Statistics of Sprout

```
Start at: 2019-01-18 17:40:39
End at: 2019-01-18 17:41:09
Local clock offset: 8.391 ms
Remote clock offset: 8.208 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 109.230 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 109.230 ms
Loss rate: 1.28%
```

Run 1: Report of Sprout — Data Link

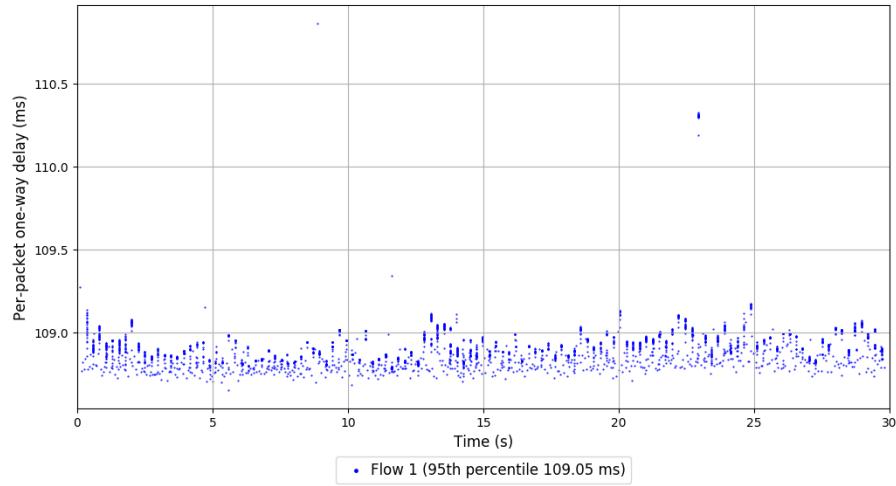
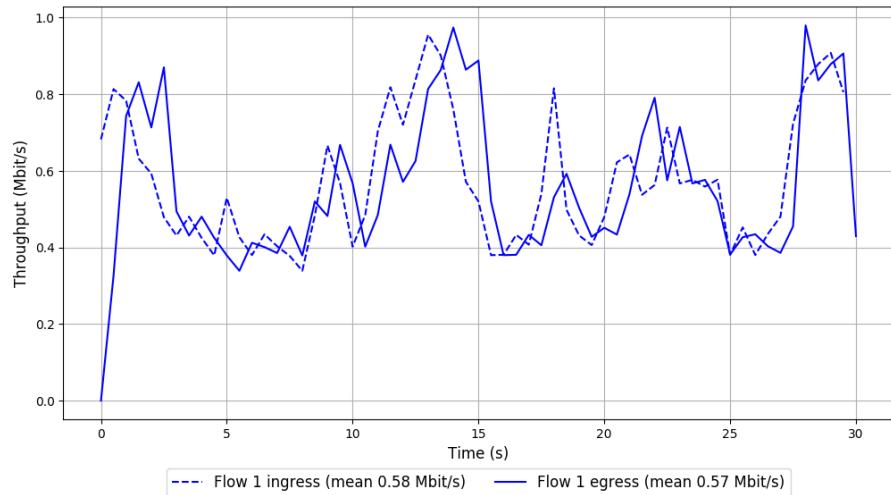


Run 2: Statistics of Sprout

```
Start at: 2019-01-18 18:13:03
End at: 2019-01-18 18:13:33
Local clock offset: 19.441 ms
Remote clock offset: 18.513 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 109.052 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 109.052 ms
Loss rate: 1.11%
```

Run 2: Report of Sprout — Data Link

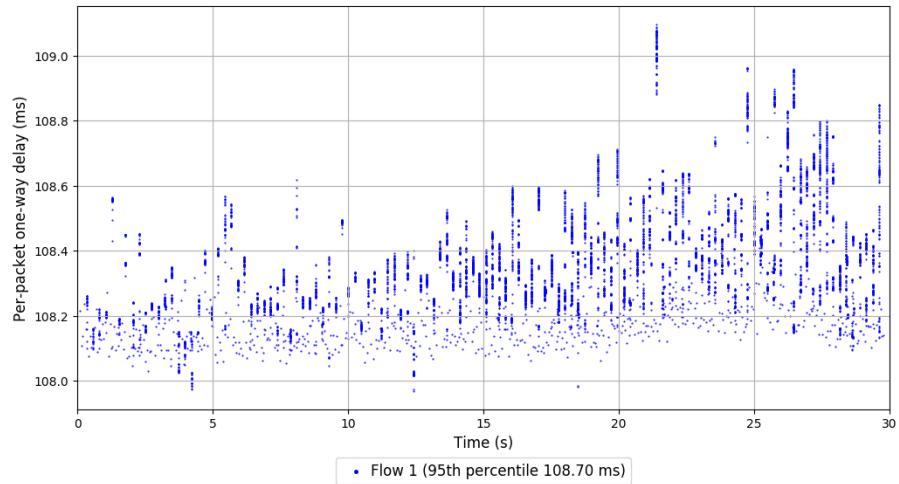
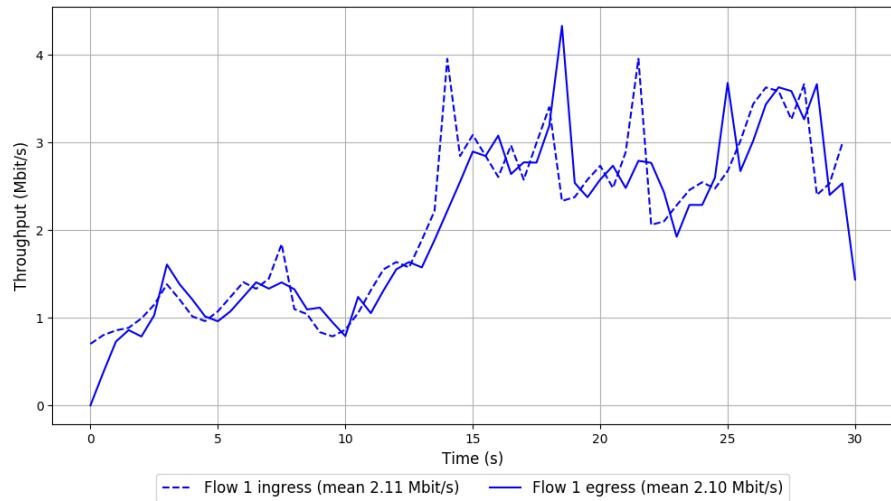


Run 3: Statistics of Sprout

```
Start at: 2019-01-18 18:44:41
End at: 2019-01-18 18:45:11
Local clock offset: 21.798 ms
Remote clock offset: 21.268 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 108.704 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 108.704 ms
Loss rate: 1.24%
```

Run 3: Report of Sprout — Data Link

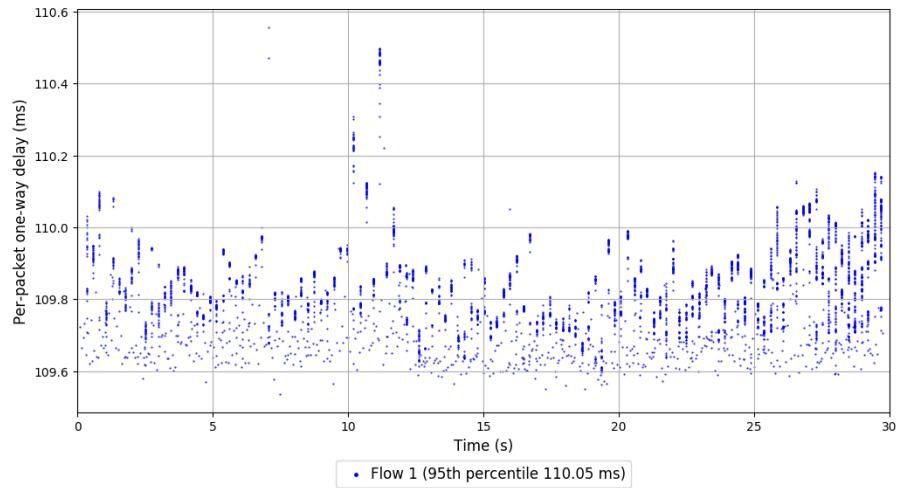
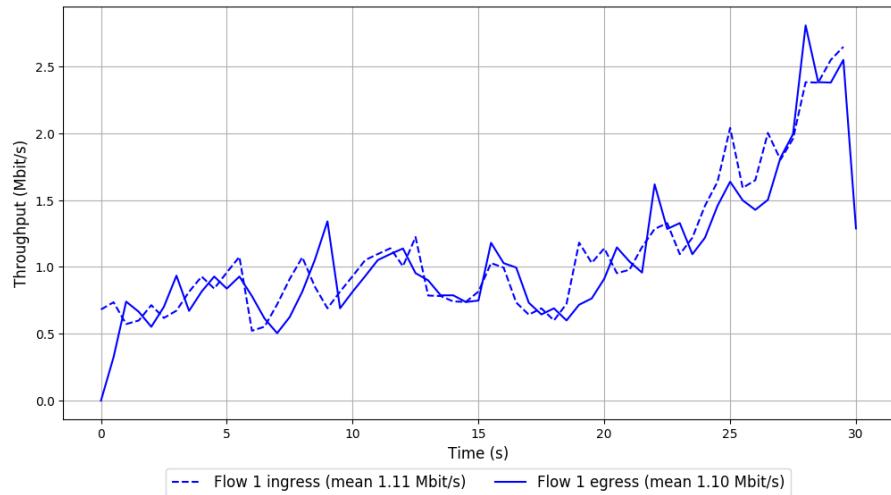


Run 4: Statistics of Sprout

```
Start at: 2019-01-18 19:16:55
End at: 2019-01-18 19:17:25
Local clock offset: 13.424 ms
Remote clock offset: 12.136 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 110.054 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 110.054 ms
Loss rate: 2.05%
```

Run 4: Report of Sprout — Data Link

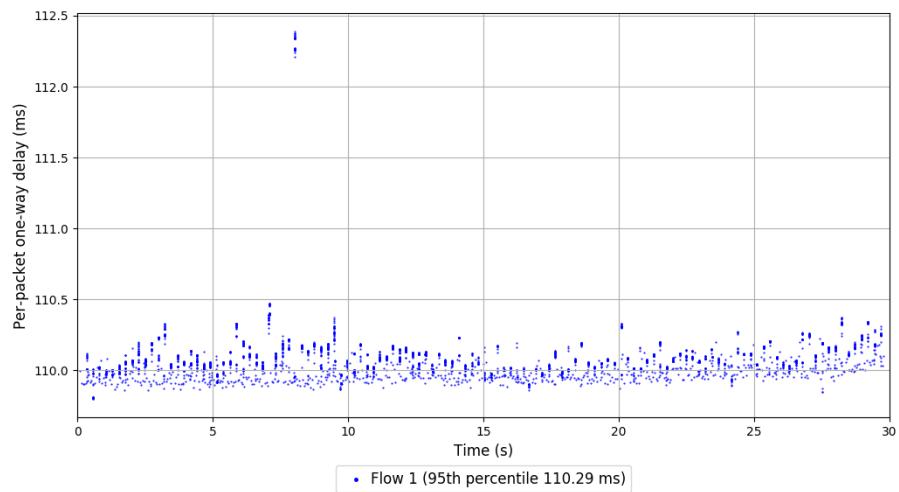
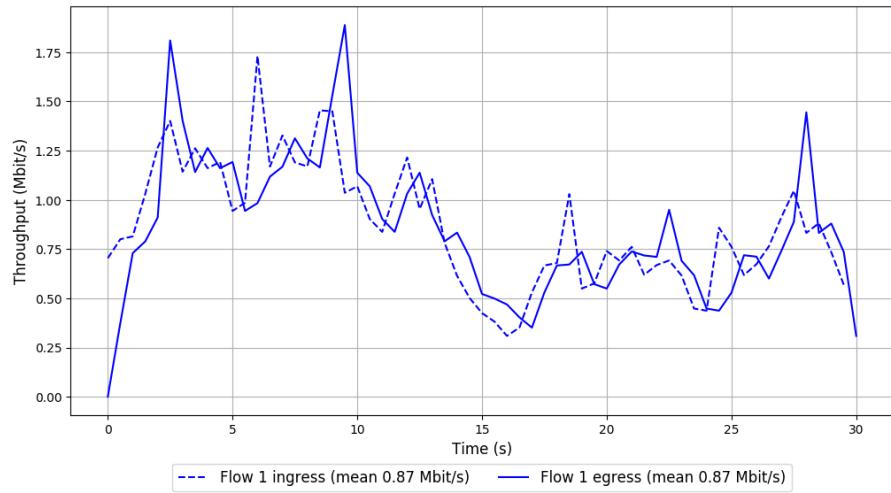


Run 5: Statistics of Sprout

```
Start at: 2019-01-18 19:48:49
End at: 2019-01-18 19:49:19
Local clock offset: 7.952 ms
Remote clock offset: 7.289 ms

# Below is generated by plot.py at 2019-01-18 22:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 110.290 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 110.290 ms
Loss rate: 0.51%
```

Run 5: Report of Sprout — Data Link

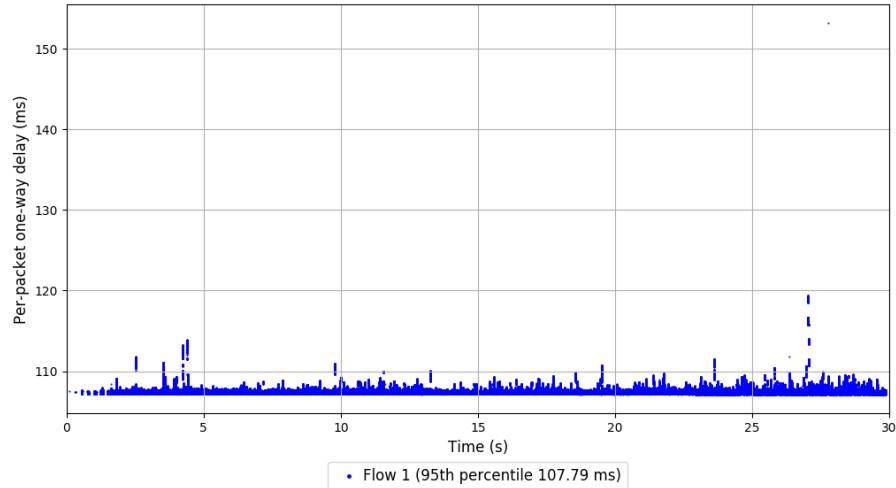
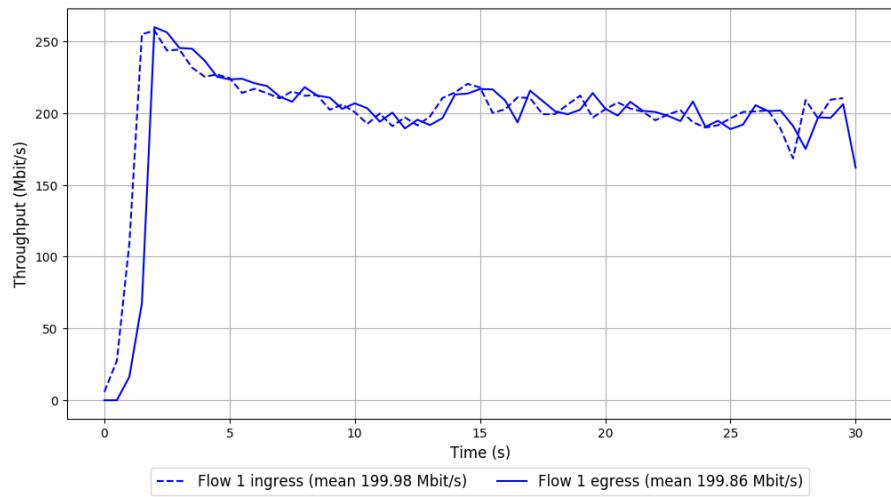


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-18 17:46:24
End at: 2019-01-18 17:46:54
Local clock offset: 15.338 ms
Remote clock offset: 15.809 ms

# Below is generated by plot.py at 2019-01-18 22:10:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.86 Mbit/s
95th percentile per-packet one-way delay: 107.787 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 199.86 Mbit/s
95th percentile per-packet one-way delay: 107.787 ms
Loss rate: 0.80%
```

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

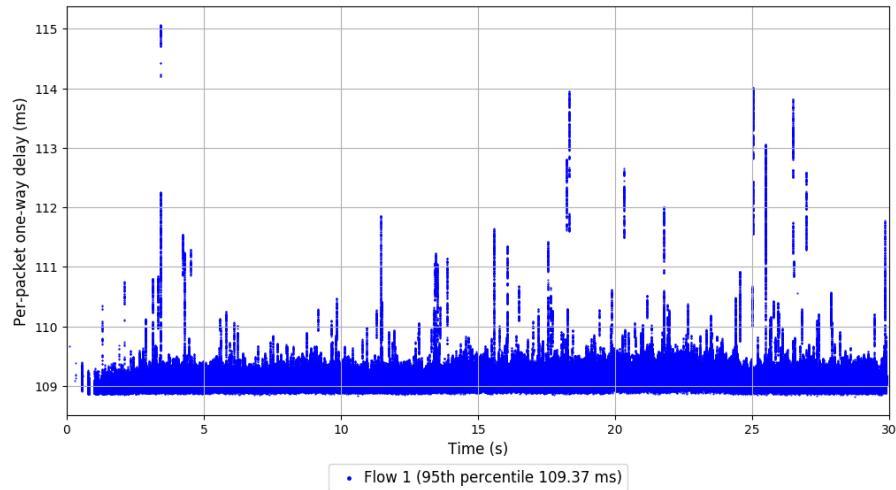
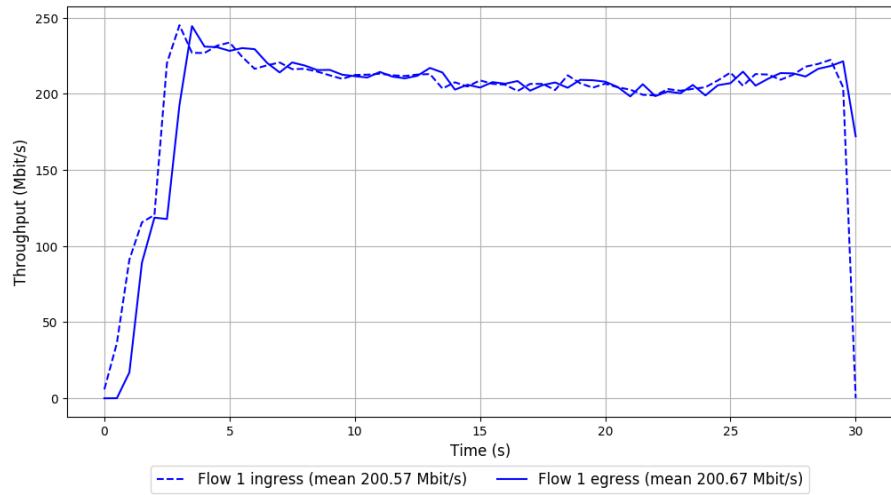


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-18 18:18:24
End at: 2019-01-18 18:18:54
Local clock offset: 21.952 ms
Remote clock offset: 20.252 ms

# Below is generated by plot.py at 2019-01-18 22:10:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.67 Mbit/s
95th percentile per-packet one-way delay: 109.366 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 200.67 Mbit/s
95th percentile per-packet one-way delay: 109.366 ms
Loss rate: 0.67%
```

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

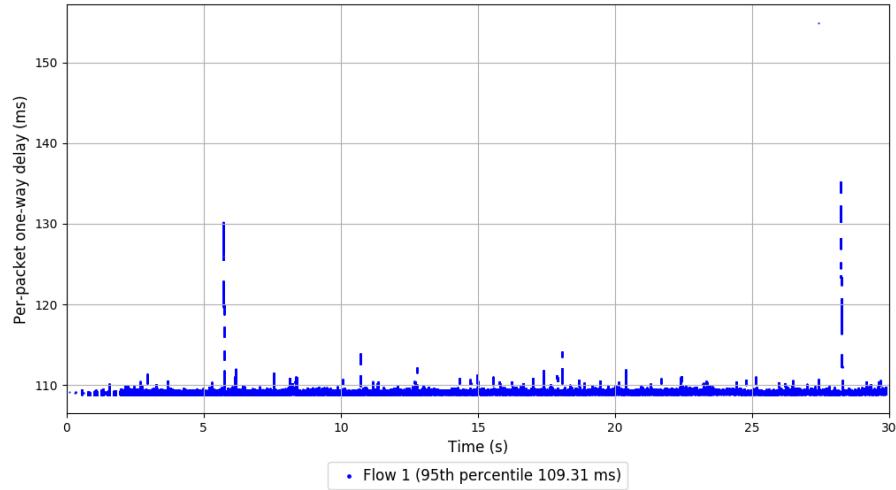
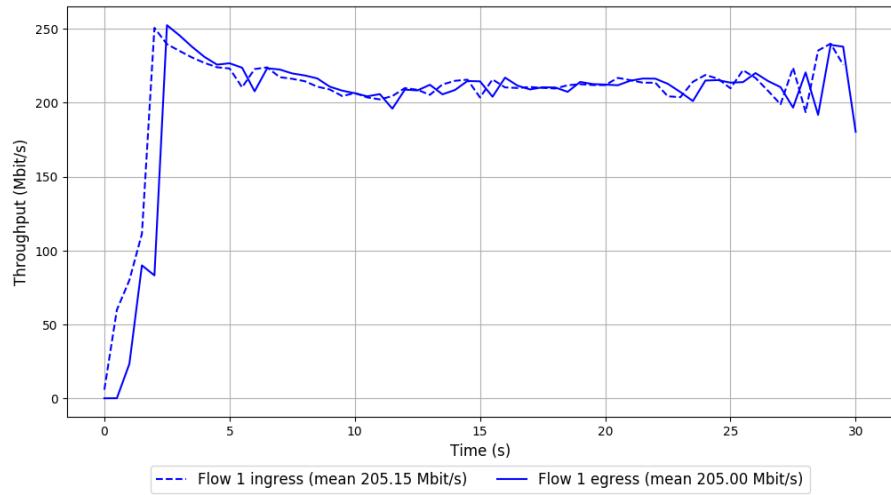


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-18 18:50:27
End at: 2019-01-18 18:50:57
Local clock offset: 16.875 ms
Remote clock offset: 15.758 ms

# Below is generated by plot.py at 2019-01-18 22:10:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.00 Mbit/s
95th percentile per-packet one-way delay: 109.314 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 205.00 Mbit/s
95th percentile per-packet one-way delay: 109.314 ms
Loss rate: 0.80%
```

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

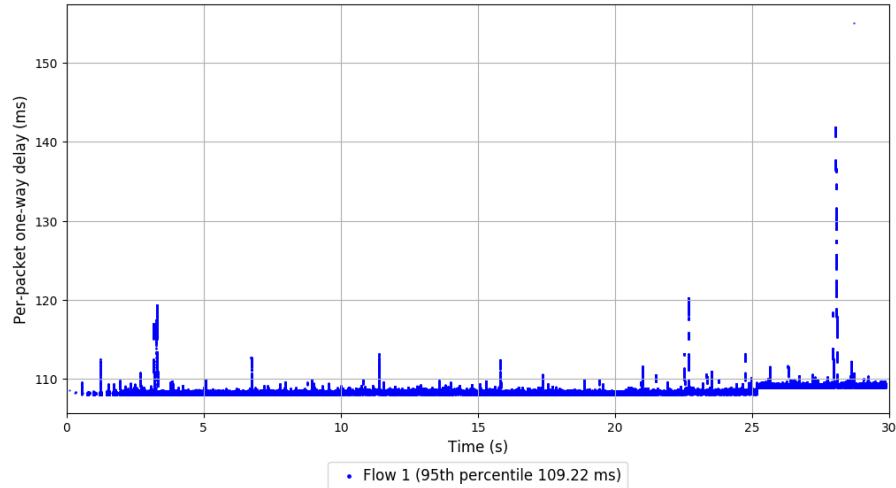
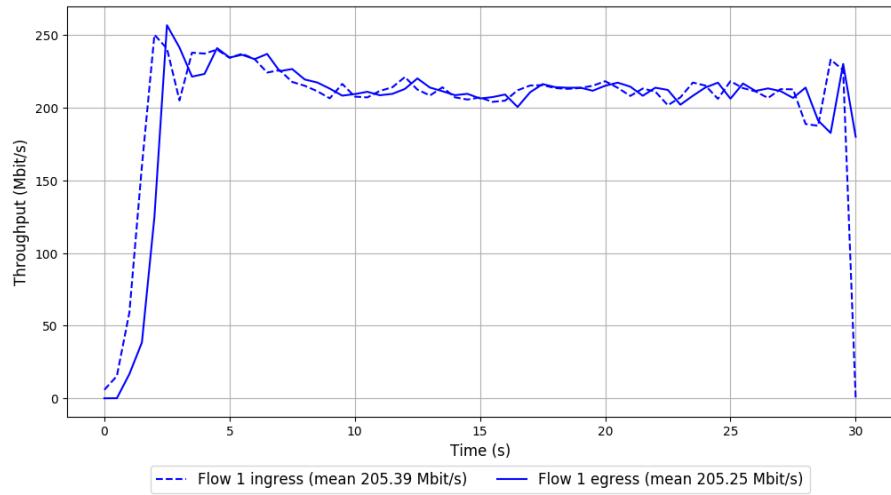


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-18 19:22:11
End at: 2019-01-18 19:22:41
Local clock offset: 8.841 ms
Remote clock offset: 8.454 ms

# Below is generated by plot.py at 2019-01-18 22:11:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.25 Mbit/s
95th percentile per-packet one-way delay: 109.215 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 205.25 Mbit/s
95th percentile per-packet one-way delay: 109.215 ms
Loss rate: 0.80%
```

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

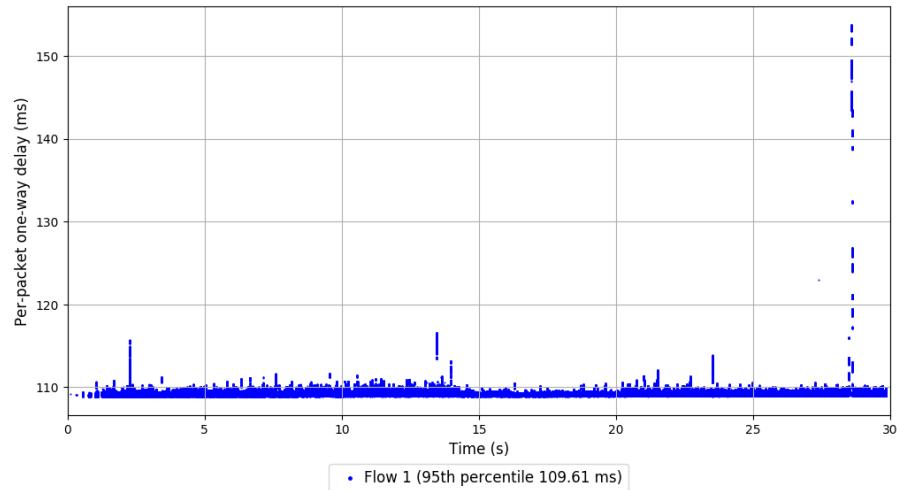
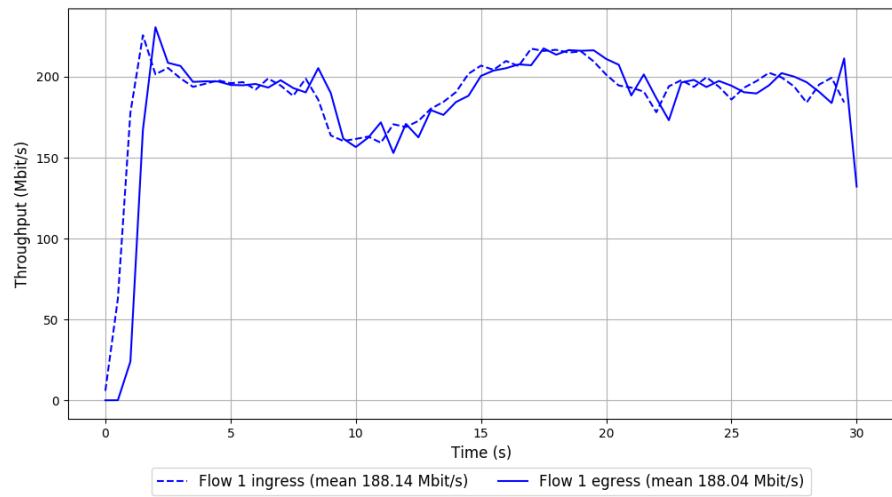


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-18 19:54:09
End at: 2019-01-18 19:54:39
Local clock offset: 4.312 ms
Remote clock offset: 4.677 ms

# Below is generated by plot.py at 2019-01-18 22:11:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.04 Mbit/s
95th percentile per-packet one-way delay: 109.610 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 188.04 Mbit/s
95th percentile per-packet one-way delay: 109.610 ms
Loss rate: 0.79%
```

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

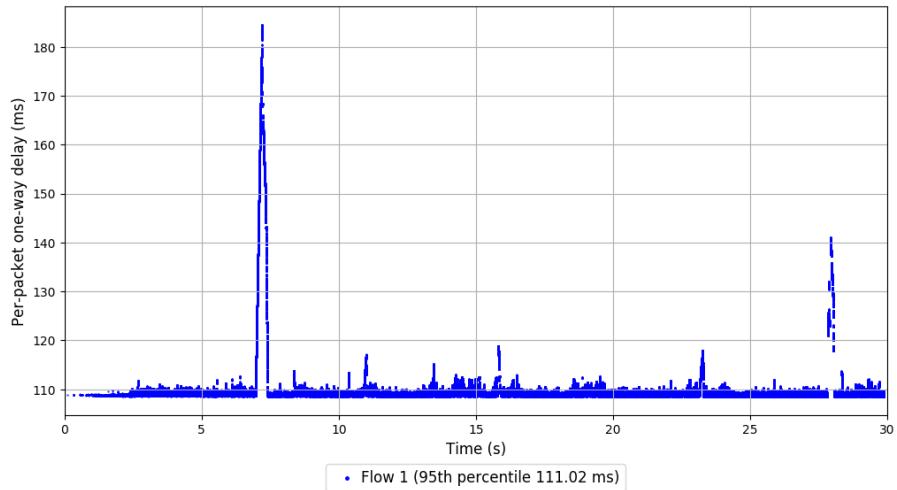
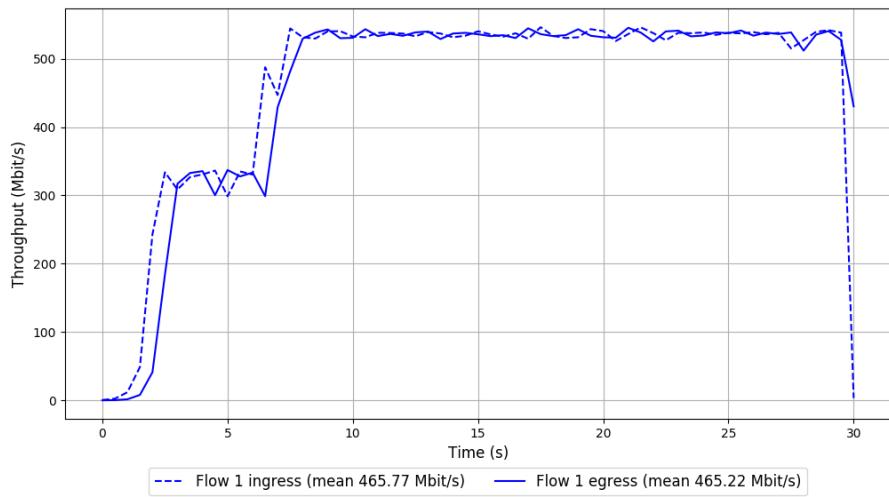


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-18 17:37:38
End at: 2019-01-18 17:38:08
Local clock offset: 9.139 ms
Remote clock offset: 9.0 ms

# Below is generated by plot.py at 2019-01-18 22:14:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 465.22 Mbit/s
95th percentile per-packet one-way delay: 111.021 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 465.22 Mbit/s
95th percentile per-packet one-way delay: 111.021 ms
Loss rate: 0.84%
```

Run 1: Report of TCP Vegas — Data Link

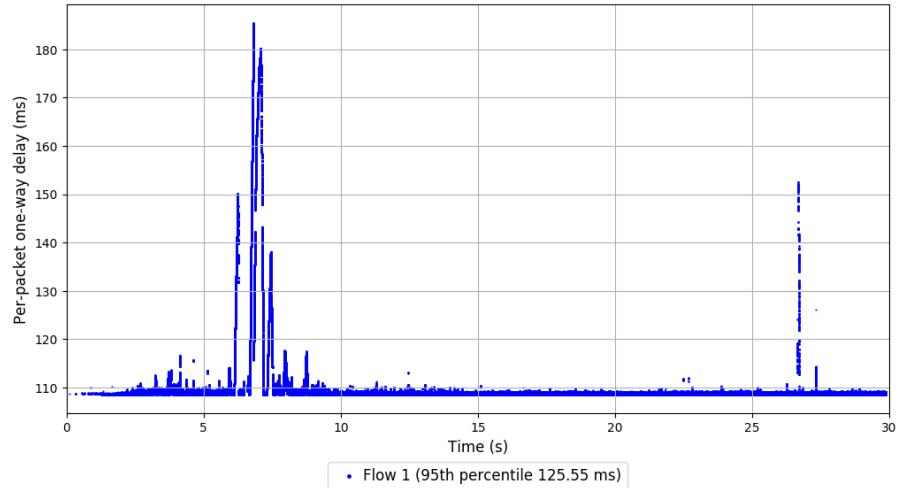
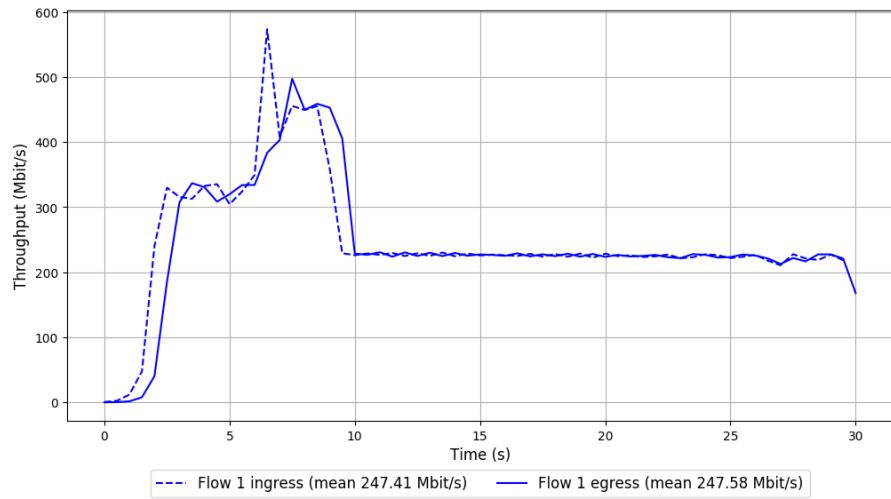


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-18 18:09:59
End at: 2019-01-18 18:10:29
Local clock offset: 20.032 ms
Remote clock offset: 18.909 ms

# Below is generated by plot.py at 2019-01-18 22:14:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.58 Mbit/s
95th percentile per-packet one-way delay: 125.545 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 247.58 Mbit/s
95th percentile per-packet one-way delay: 125.545 ms
Loss rate: 0.66%
```

Run 2: Report of TCP Vegas — Data Link

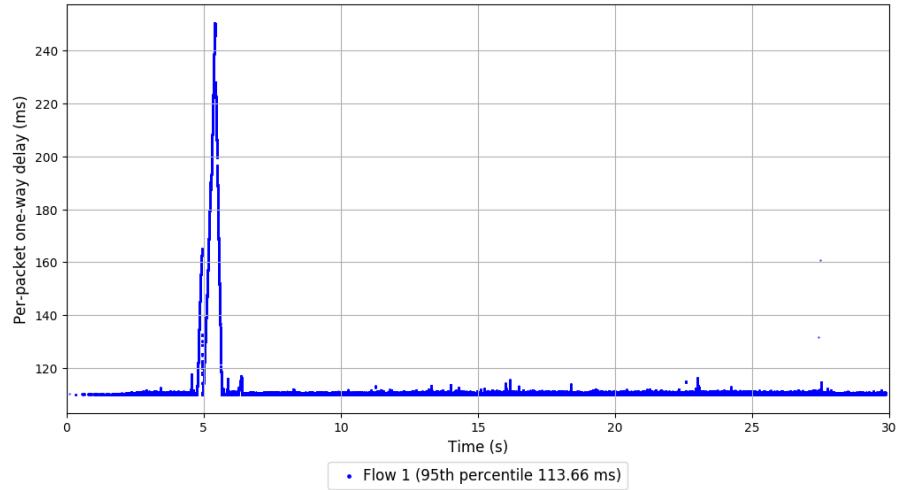
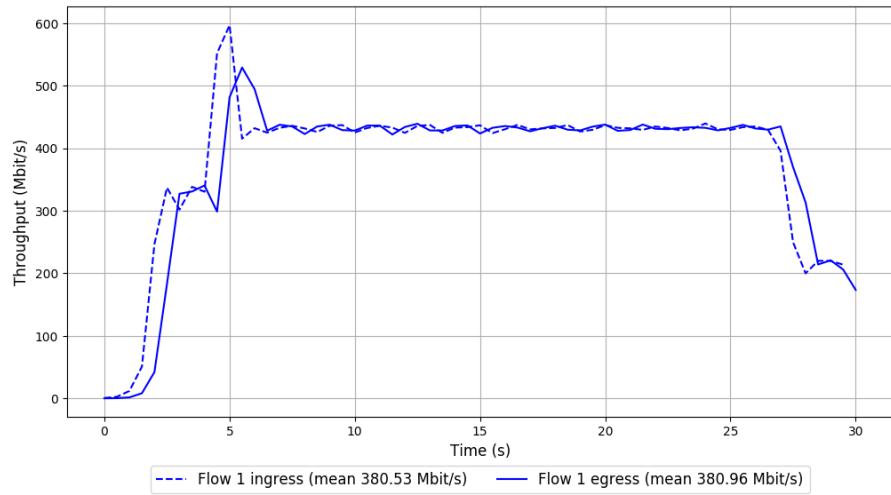


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-18 18:41:28
End at: 2019-01-18 18:41:58
Local clock offset: 30.672 ms
Remote clock offset: 27.408 ms

# Below is generated by plot.py at 2019-01-18 22:17:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.96 Mbit/s
95th percentile per-packet one-way delay: 113.658 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 380.96 Mbit/s
95th percentile per-packet one-way delay: 113.658 ms
Loss rate: 0.62%
```

Run 3: Report of TCP Vegas — Data Link

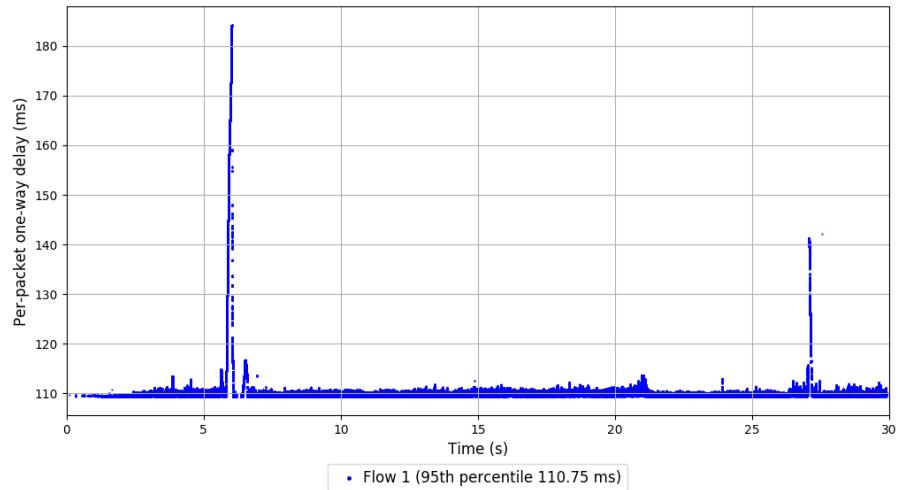
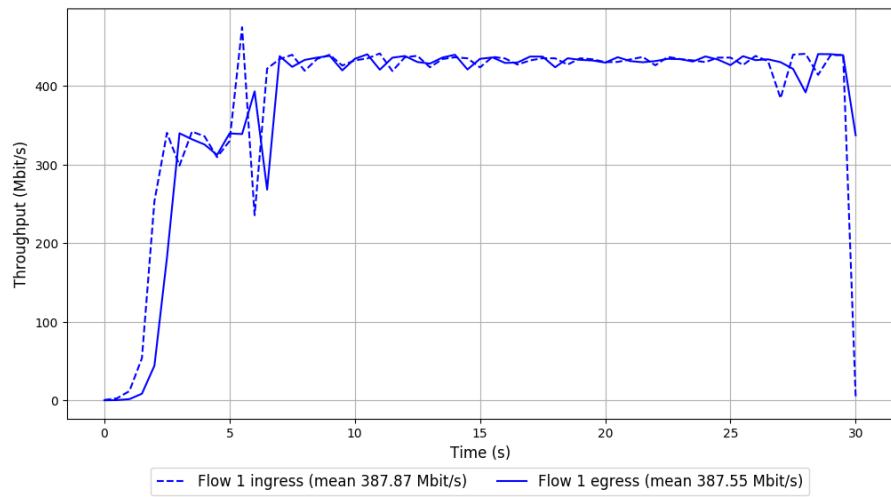


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-18 19:13:42
End at: 2019-01-18 19:14:12
Local clock offset: 18.724 ms
Remote clock offset: 16.52 ms

# Below is generated by plot.py at 2019-01-18 22:20:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 387.55 Mbit/s
95th percentile per-packet one-way delay: 110.747 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 387.55 Mbit/s
95th percentile per-packet one-way delay: 110.747 ms
Loss rate: 0.81%
```

Run 4: Report of TCP Vegas — Data Link

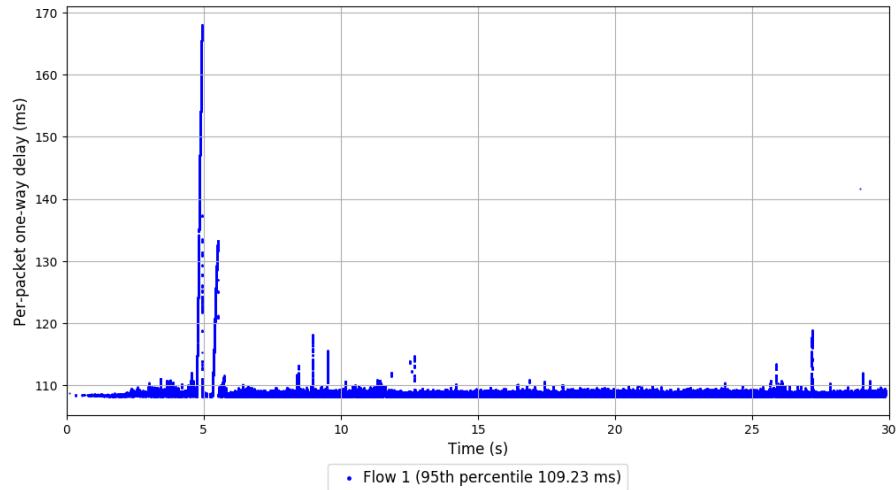
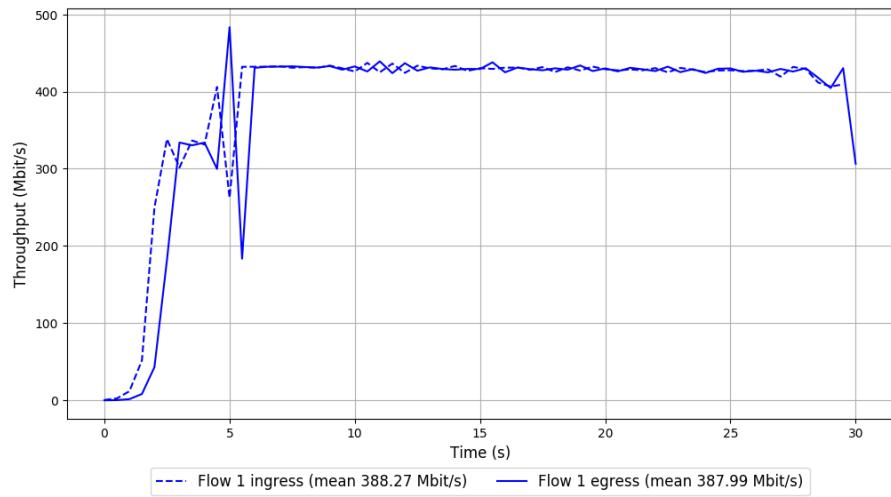


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-18 19:45:35
End at: 2019-01-18 19:46:05
Local clock offset: 9.499 ms
Remote clock offset: 8.936 ms

# Below is generated by plot.py at 2019-01-18 22:20:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 387.99 Mbit/s
95th percentile per-packet one-way delay: 109.229 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 387.99 Mbit/s
95th percentile per-packet one-way delay: 109.229 ms
Loss rate: 0.80%
```

Run 5: Report of TCP Vegas — Data Link

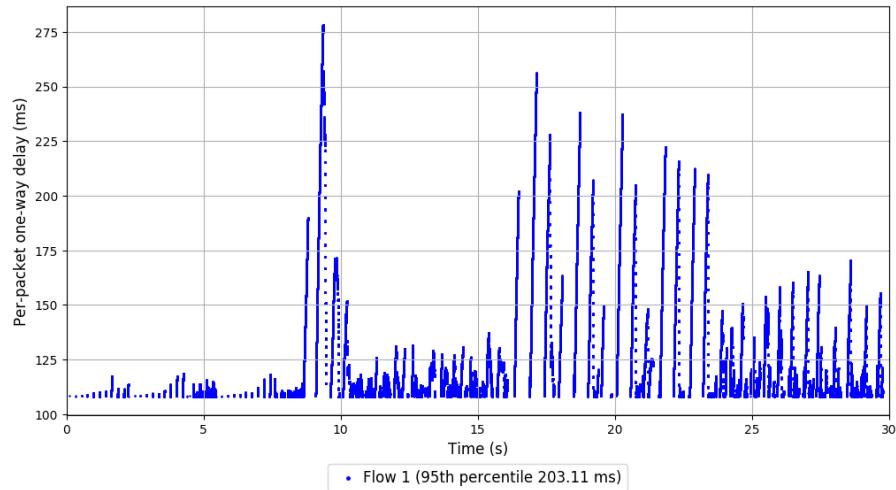
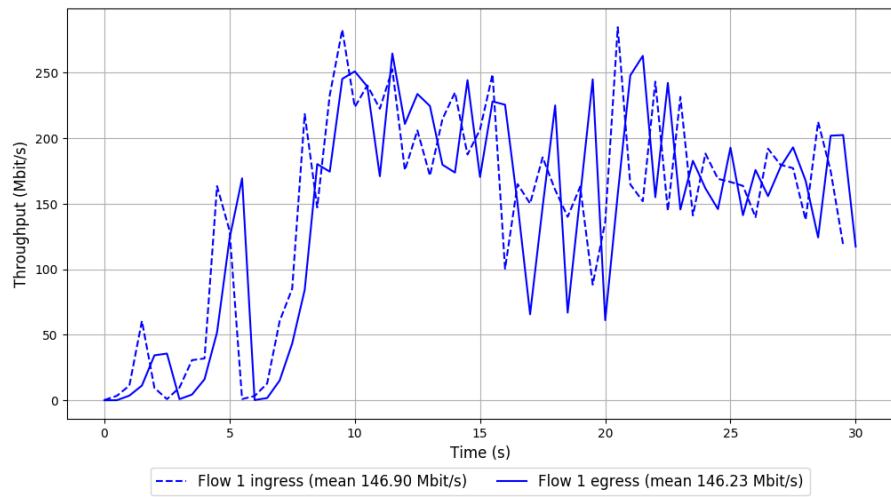


Run 1: Statistics of Verus

```
Start at: 2019-01-18 17:41:49
End at: 2019-01-18 17:42:19
Local clock offset: 9.408 ms
Remote clock offset: 8.916 ms

# Below is generated by plot.py at 2019-01-18 22:20:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 146.23 Mbit/s
95th percentile per-packet one-way delay: 203.107 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 146.23 Mbit/s
95th percentile per-packet one-way delay: 203.107 ms
Loss rate: 0.79%
```

Run 1: Report of Verus — Data Link

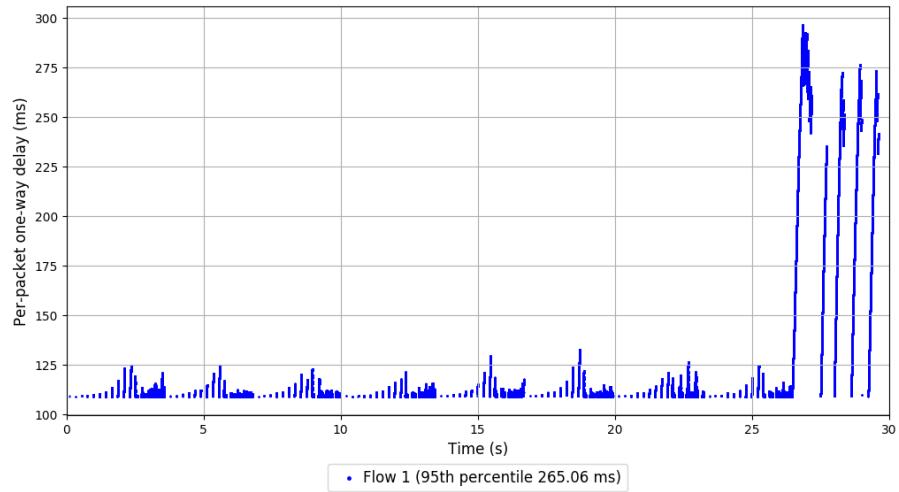
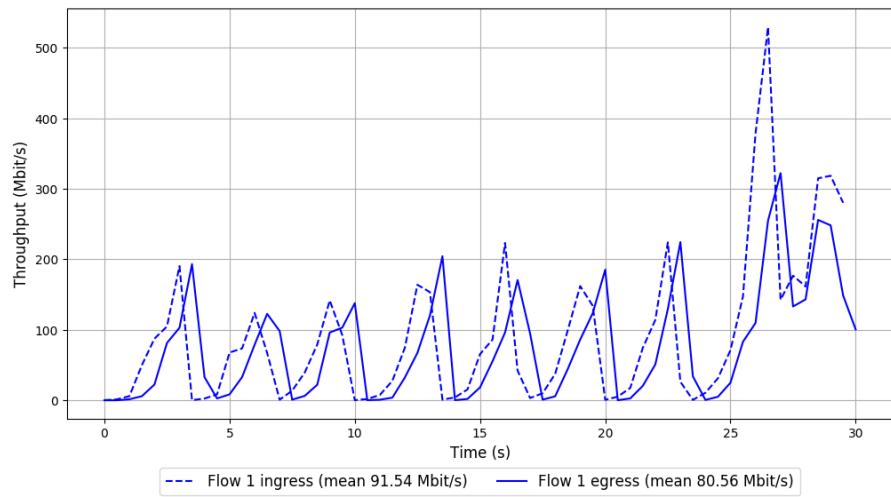


Run 2: Statistics of Verus

```
Start at: 2019-01-18 18:14:13
End at: 2019-01-18 18:14:43
Local clock offset: 20.295 ms
Remote clock offset: 18.743 ms

# Below is generated by plot.py at 2019-01-18 22:20:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.56 Mbit/s
95th percentile per-packet one-way delay: 265.063 ms
Loss rate: 13.38%
-- Flow 1:
Average throughput: 80.56 Mbit/s
95th percentile per-packet one-way delay: 265.063 ms
Loss rate: 13.38%
```

Run 2: Report of Verus — Data Link

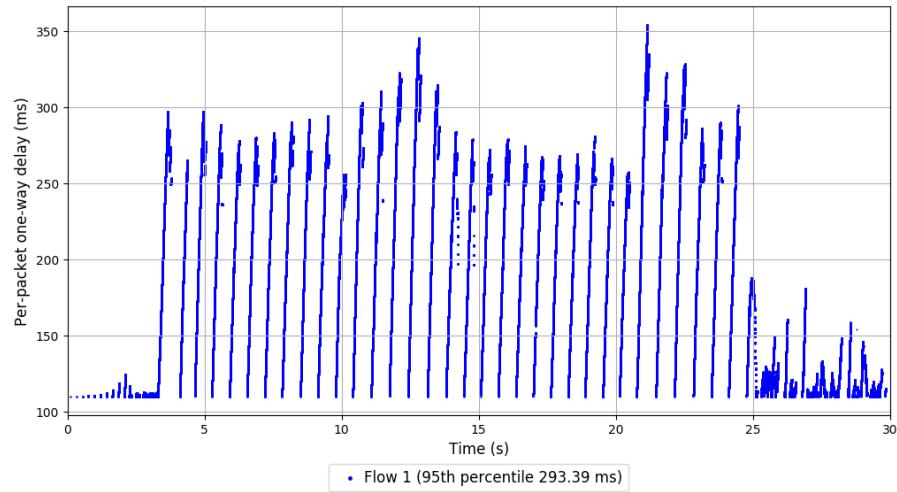
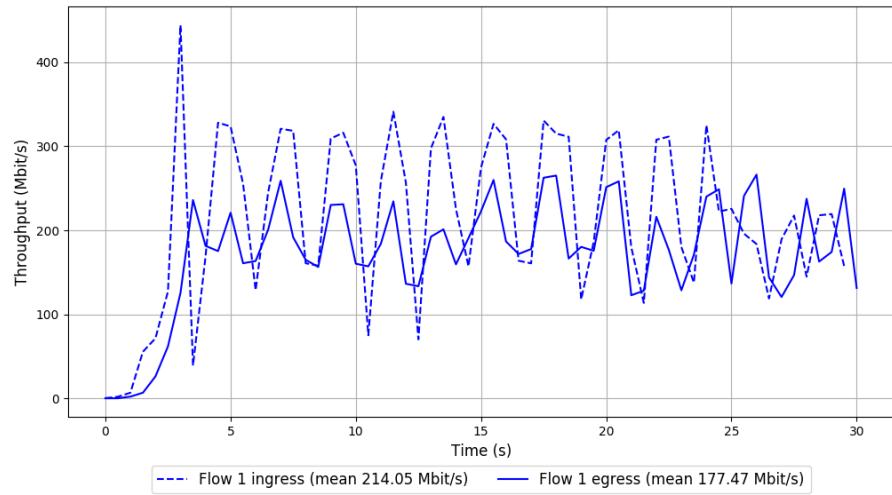


Run 3: Statistics of Verus

```
Start at: 2019-01-18 18:45:51
End at: 2019-01-18 18:46:21
Local clock offset: 21.639 ms
Remote clock offset: 19.224 ms

# Below is generated by plot.py at 2019-01-18 22:20:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.47 Mbit/s
95th percentile per-packet one-way delay: 293.387 ms
Loss rate: 17.75%
-- Flow 1:
Average throughput: 177.47 Mbit/s
95th percentile per-packet one-way delay: 293.387 ms
Loss rate: 17.75%
```

Run 3: Report of Verus — Data Link

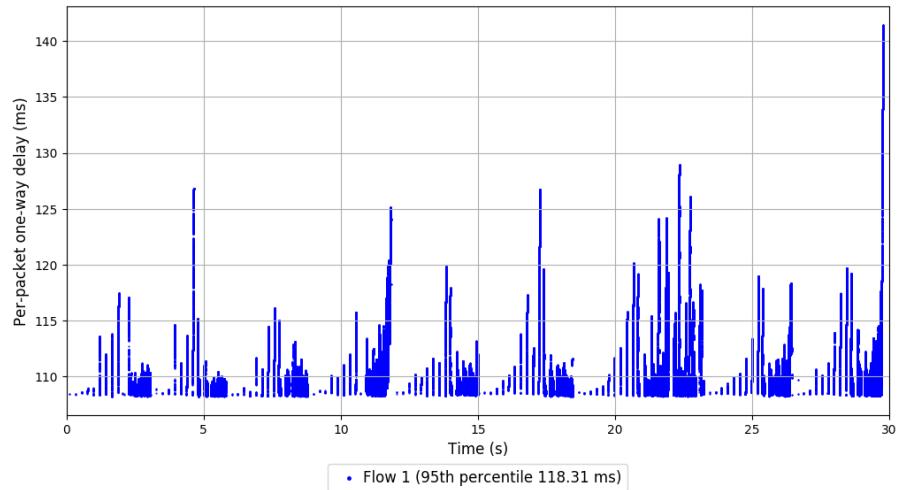
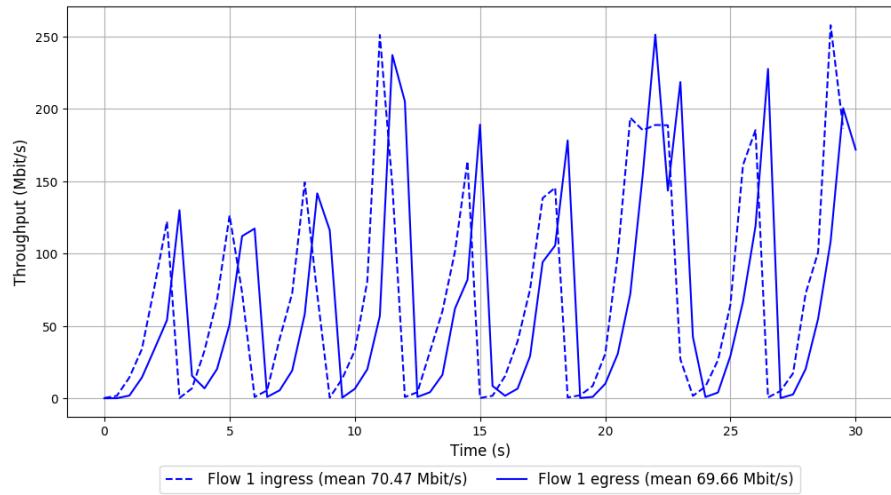


Run 4: Statistics of Verus

```
Start at: 2019-01-18 19:18:05
End at: 2019-01-18 19:18:35
Local clock offset: 12.008 ms
Remote clock offset: 11.114 ms

# Below is generated by plot.py at 2019-01-18 22:20:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.66 Mbit/s
95th percentile per-packet one-way delay: 118.312 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 69.66 Mbit/s
95th percentile per-packet one-way delay: 118.312 ms
Loss rate: 1.94%
```

Run 4: Report of Verus — Data Link

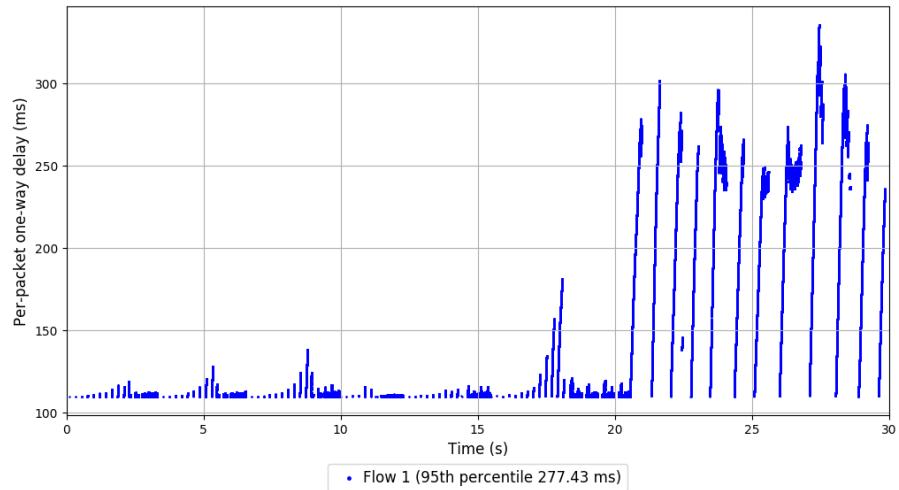
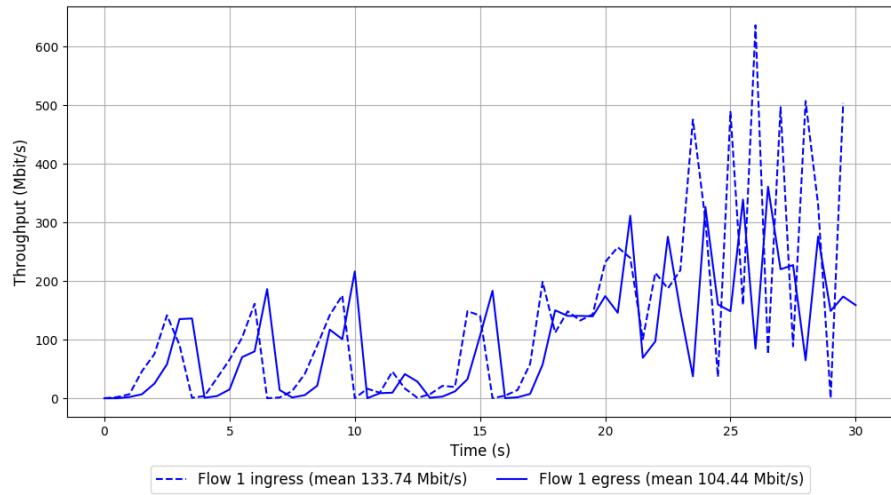


Run 5: Statistics of Verus

```
Start at: 2019-01-18 19:50:00
End at: 2019-01-18 19:50:30
Local clock offset: 7.411 ms
Remote clock offset: 6.538 ms

# Below is generated by plot.py at 2019-01-18 22:20:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 104.44 Mbit/s
95th percentile per-packet one-way delay: 277.428 ms
Loss rate: 22.25%
-- Flow 1:
Average throughput: 104.44 Mbit/s
95th percentile per-packet one-way delay: 277.428 ms
Loss rate: 22.25%
```

Run 5: Report of Verus — Data Link

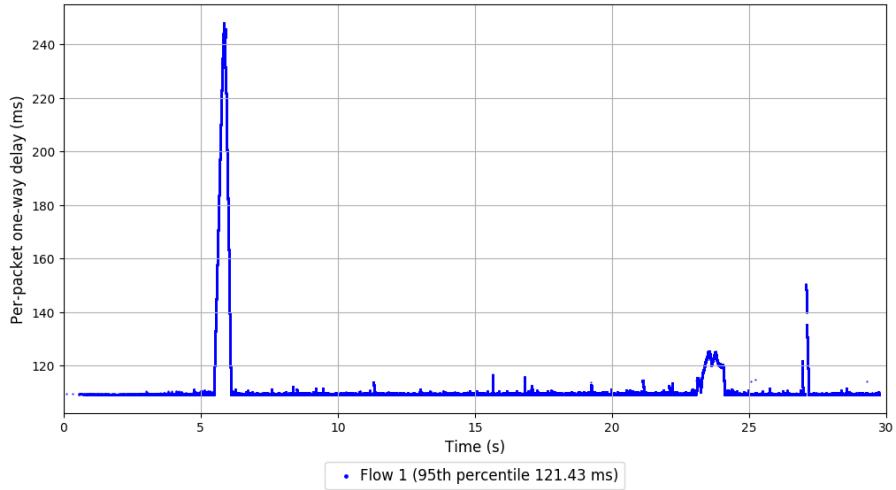
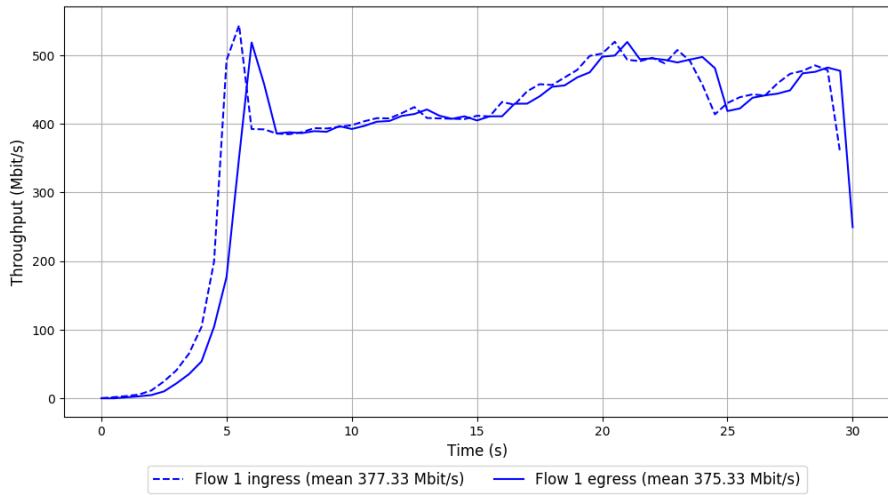


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-18 17:52:09
End at: 2019-01-18 17:52:39
Local clock offset: 13.454 ms
Remote clock offset: 12.529 ms

# Below is generated by plot.py at 2019-01-18 22:22:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 375.33 Mbit/s
95th percentile per-packet one-way delay: 121.429 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 375.33 Mbit/s
95th percentile per-packet one-way delay: 121.429 ms
Loss rate: 1.26%
```

Run 1: Report of PCC-Vivace — Data Link

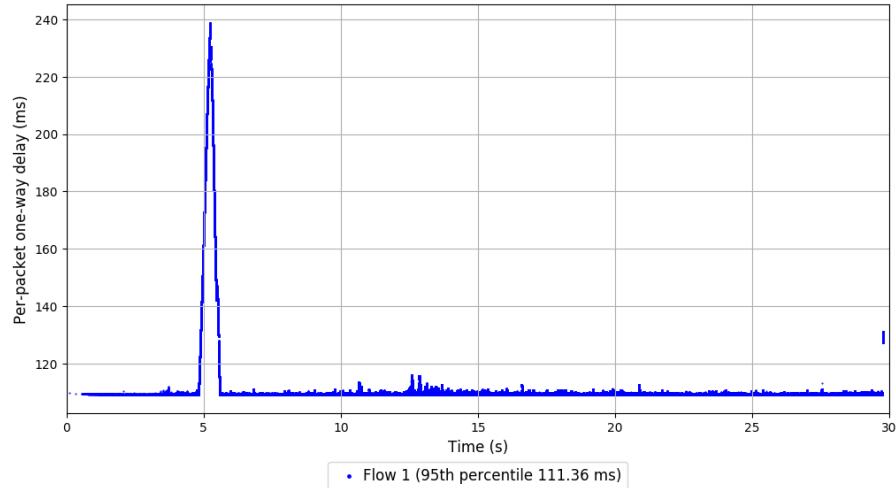
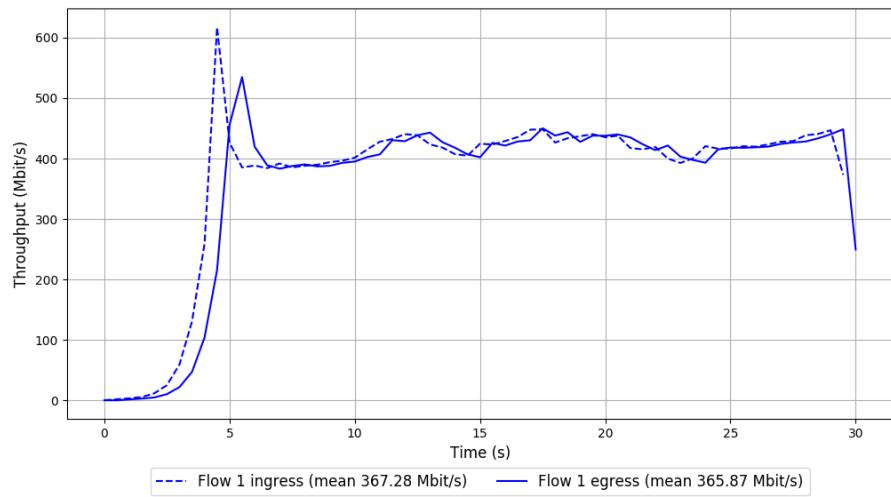


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-18 18:24:01
End at: 2019-01-18 18:24:31
Local clock offset: 25.971 ms
Remote clock offset: 23.706 ms

# Below is generated by plot.py at 2019-01-18 22:22:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 365.87 Mbit/s
95th percentile per-packet one-way delay: 111.355 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 365.87 Mbit/s
95th percentile per-packet one-way delay: 111.355 ms
Loss rate: 1.12%
```

Run 2: Report of PCC-Vivace — Data Link

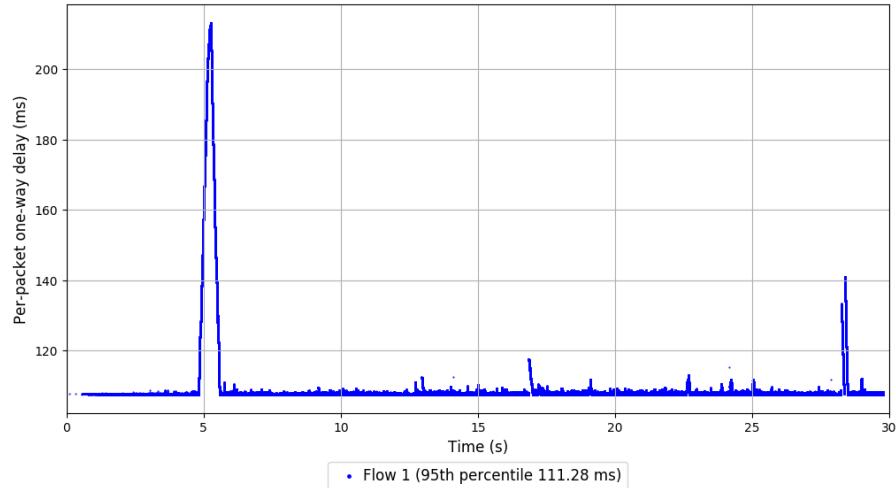
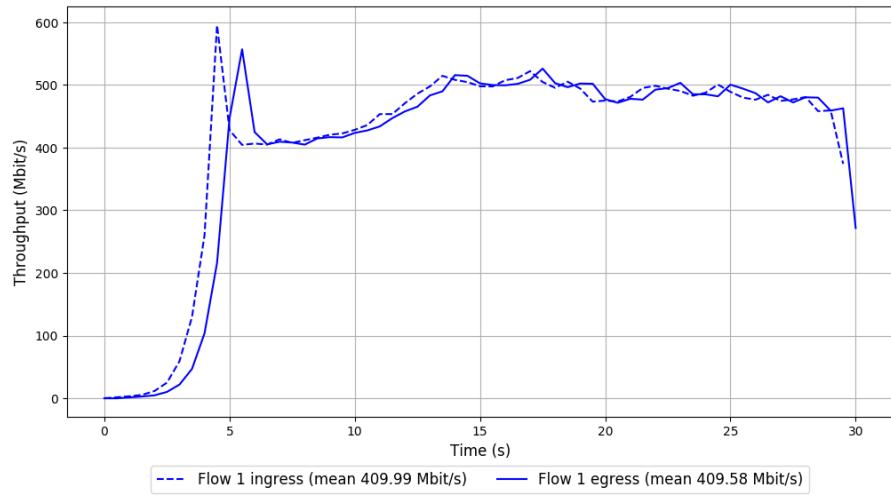


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-18 18:56:08
End at: 2019-01-18 18:56:38
Local clock offset: 14.71 ms
Remote clock offset: 14.155 ms

# Below is generated by plot.py at 2019-01-18 22:24:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 409.58 Mbit/s
95th percentile per-packet one-way delay: 111.282 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 409.58 Mbit/s
95th percentile per-packet one-way delay: 111.282 ms
Loss rate: 0.82%
```

Run 3: Report of PCC-Vivace — Data Link

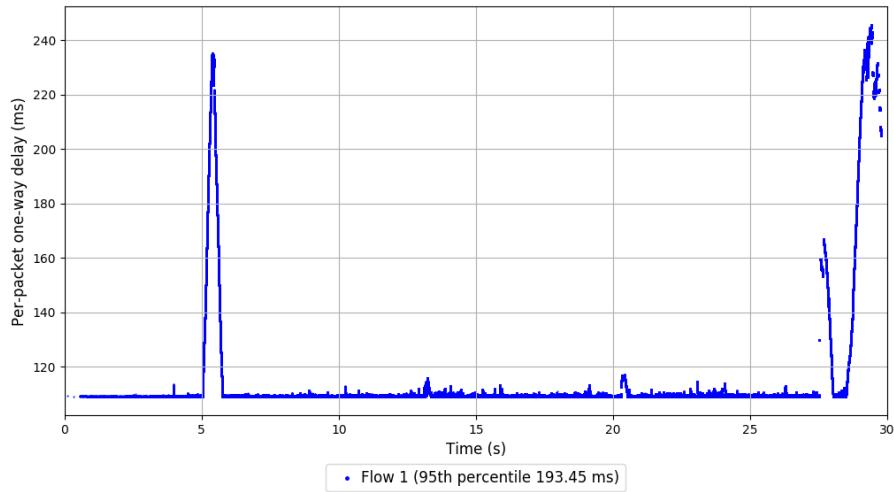
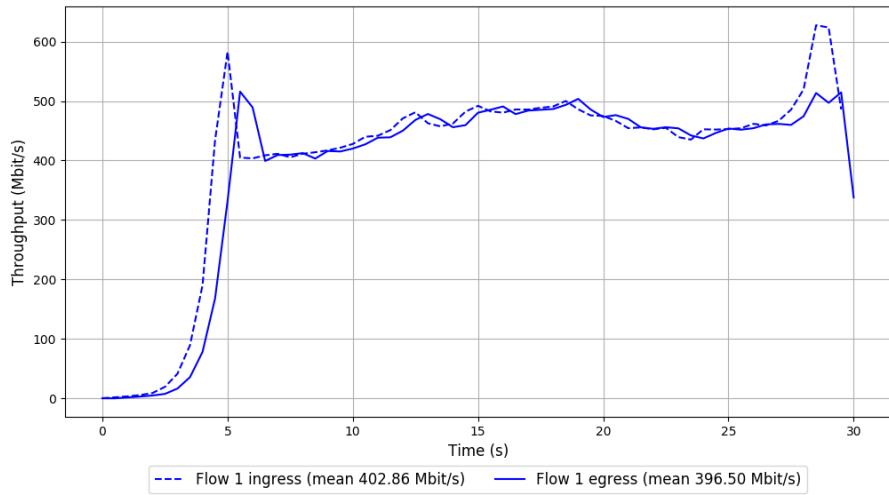


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-18 19:27:46
End at: 2019-01-18 19:28:16
Local clock offset: 7.556 ms
Remote clock offset: 7.491 ms

# Below is generated by plot.py at 2019-01-18 22:24:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 396.50 Mbit/s
95th percentile per-packet one-way delay: 193.450 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 396.50 Mbit/s
95th percentile per-packet one-way delay: 193.450 ms
Loss rate: 2.30%
```

Run 4: Report of PCC-Vivace — Data Link

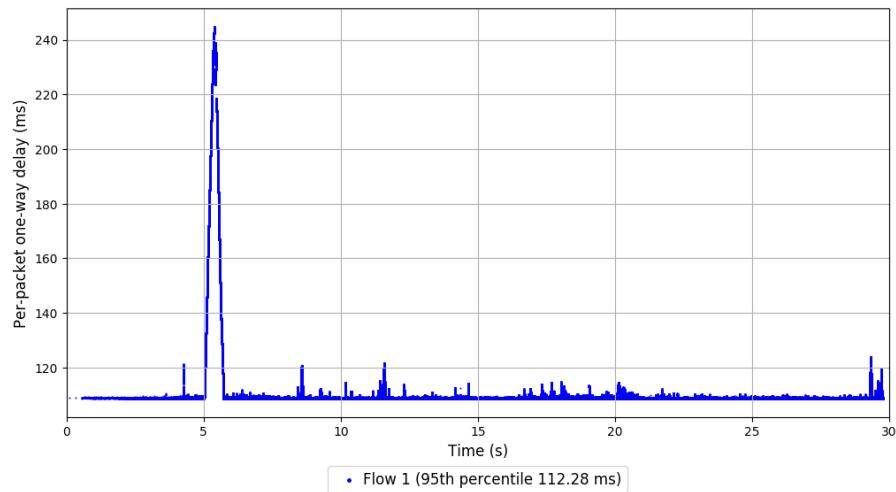
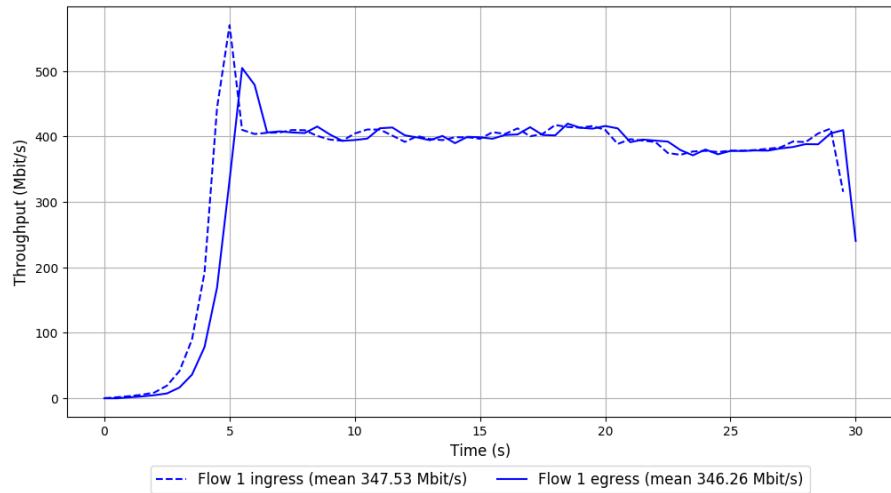


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-18 19:59:43
End at: 2019-01-18 20:00:13
Local clock offset: 3.258 ms
Remote clock offset: 3.637 ms

# Below is generated by plot.py at 2019-01-18 22:24:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 346.26 Mbit/s
95th percentile per-packet one-way delay: 112.282 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 346.26 Mbit/s
95th percentile per-packet one-way delay: 112.282 ms
Loss rate: 1.09%
```

Run 5: Report of PCC-Vivace — Data Link

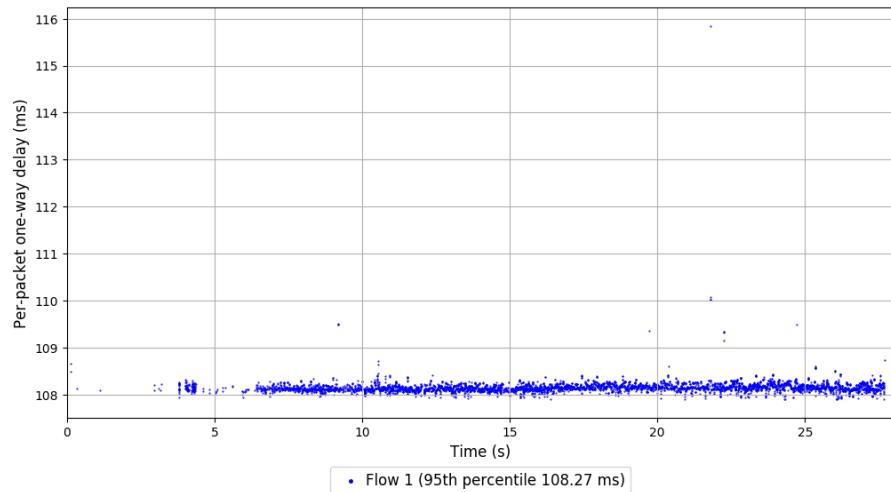
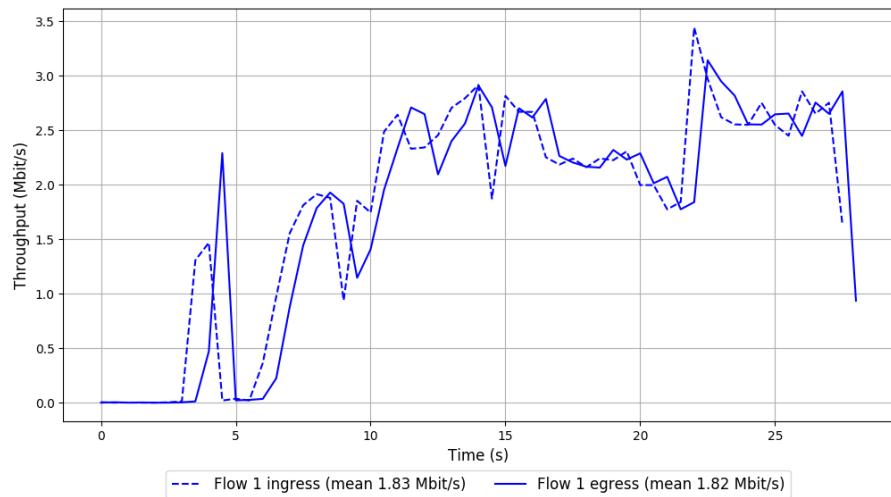


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-18 18:00:55
End at: 2019-01-18 18:01:25
Local clock offset: 21.714 ms
Remote clock offset: 20.989 ms

# Below is generated by plot.py at 2019-01-18 22:24:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 108.274 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 108.274 ms
Loss rate: 1.18%
```

Run 1: Report of WebRTC media — Data Link

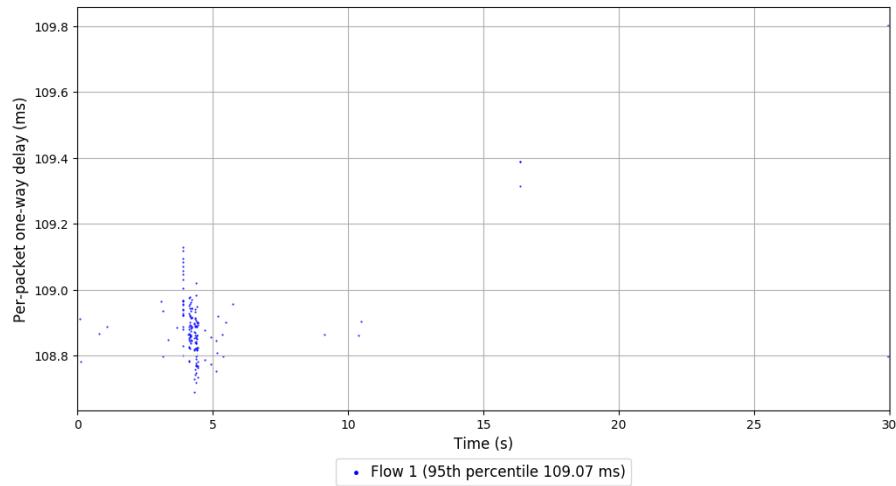
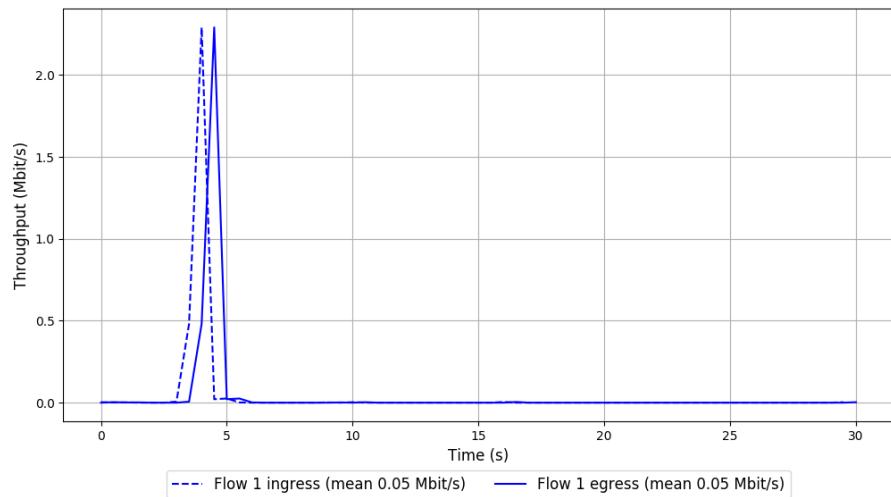


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-18 18:32:18
End at: 2019-01-18 18:32:48
Local clock offset: 34.188 ms
Remote clock offset: 31.733 ms

# Below is generated by plot.py at 2019-01-18 22:24:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.071 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.071 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

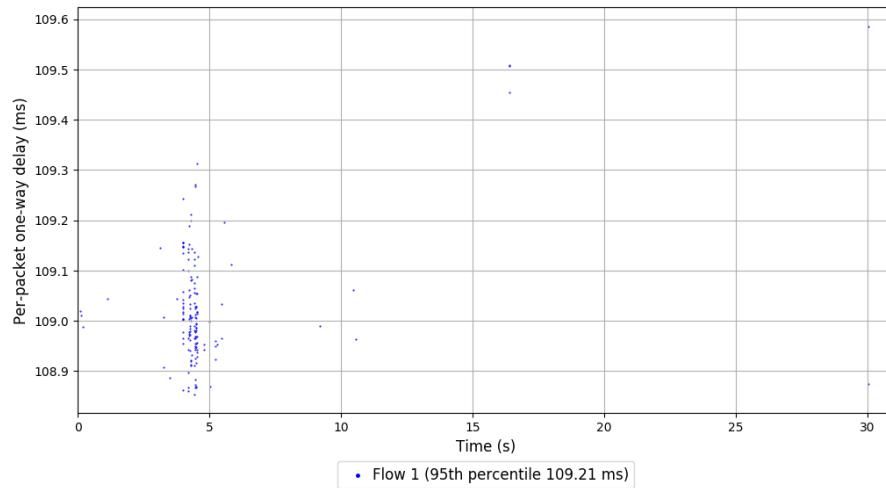
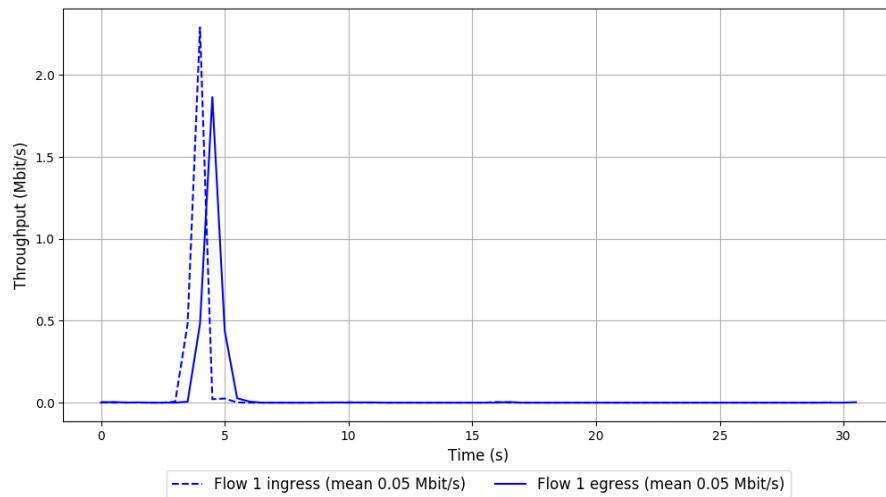


```
Run 3: Statistics of WebRTC media

Start at: 2019-01-18 19:04:34
End at: 2019-01-18 19:05:04
Local clock offset: 15.763 ms
Remote clock offset: 15.807 ms

# Below is generated by plot.py at 2019-01-18 22:24:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.212 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.212 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

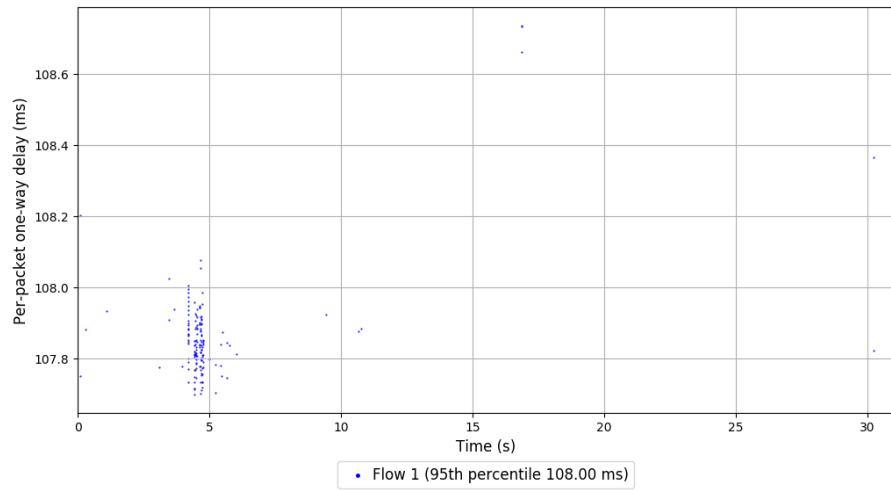
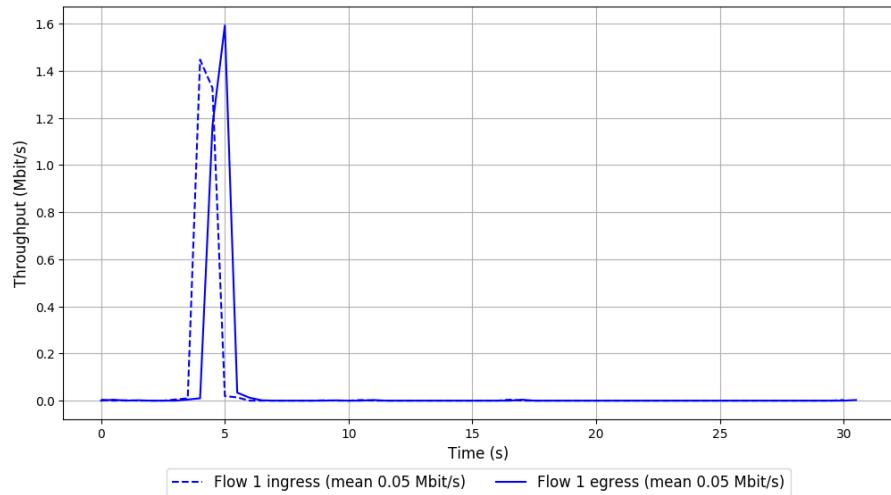


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-18 19:36:16
End at: 2019-01-18 19:36:46
Local clock offset: 7.101 ms
Remote clock offset: 7.286 ms

# Below is generated by plot.py at 2019-01-18 22:24:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 108.005 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 108.005 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-01-18 20:07:56
End at: 2019-01-18 20:08:26
Local clock offset: 1.898 ms
Remote clock offset: 3.478 ms

# Below is generated by plot.py at 2019-01-18 22:24:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.234 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.234 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

