

Pantheon Report

Generated at 2019-10-02 22:36:29 (UTC).
Data path: GCE London on `ens4` (*remote*) → GCE Tokyo on `ens4` (*local*).
Repeated the test of 24 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

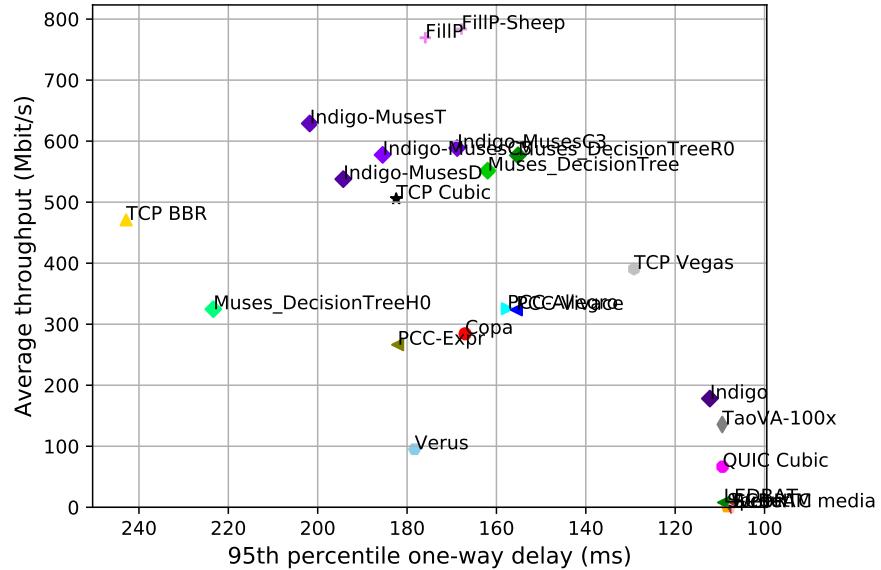
```
Linux 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

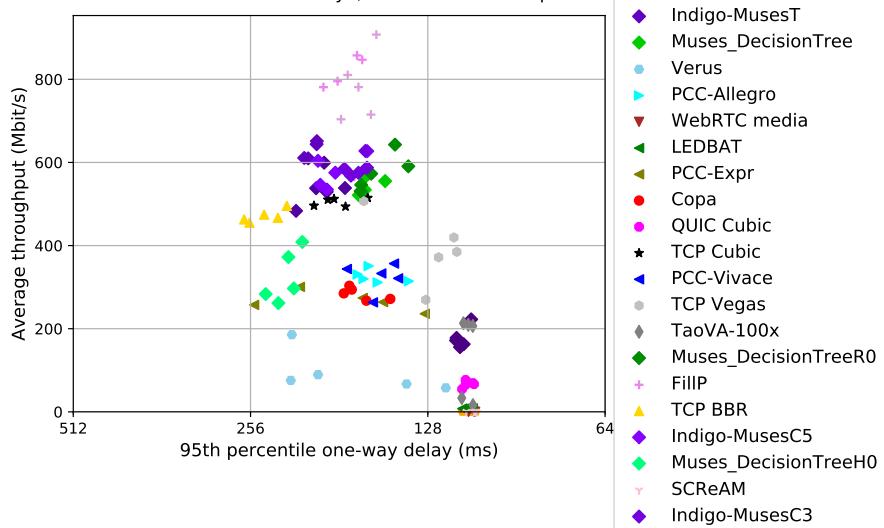
```
branch: muses @ de42328552b3776a75a932a94dfaf722537b0ec
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from 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



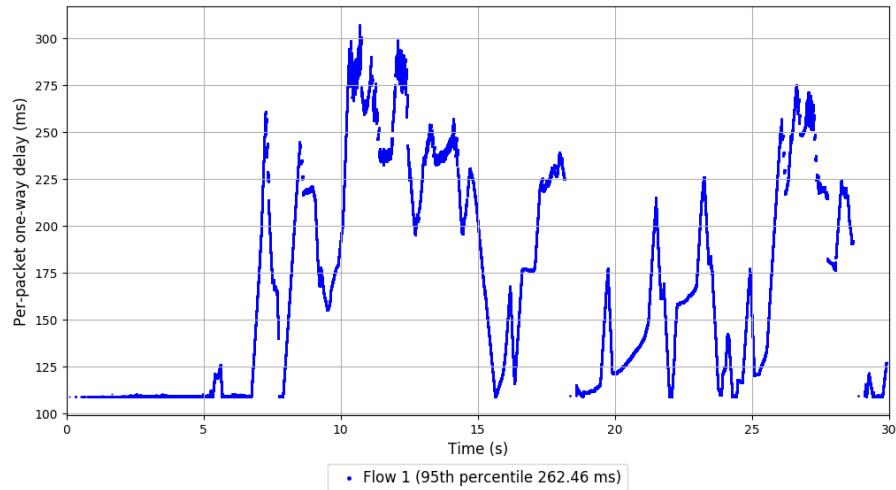
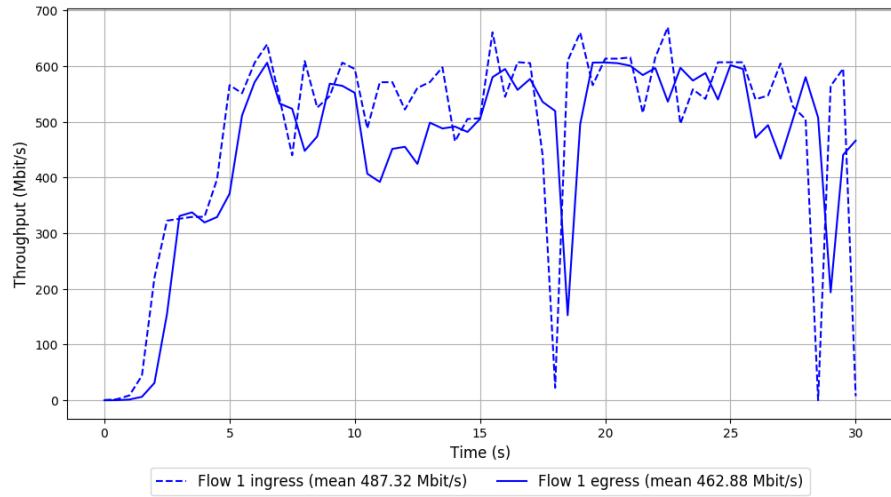
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	470.97	242.88	4.34
Copa	5	284.30	167.02	0.77
TCP Cubic	5	505.47	182.44	0.91
FillP	5	769.36	175.91	3.79
FillP-Sheep	5	783.66	167.82	2.43
Indigo	5	178.14	112.24	0.78
Indigo-MusesC3	5	588.67	168.78	0.89
Indigo-MusesC5	5	577.49	185.47	1.32
Indigo-MusesD	5	537.74	194.28	1.19
Indigo-MusesT	4	628.92	201.78	1.79
LEDBAT	5	7.89	109.17	1.45
Muses_DecisionTree	5	551.54	161.97	1.00
Muses_DecisionTreeH0	5	324.61	223.36	16.19
Muses_DecisionTreeR0	5	576.75	155.17	0.97
PCC-Allegro	5	325.37	157.56	1.47
PCC-Expr	5	266.38	182.12	3.52
QUIC Cubic	5	66.52	109.40	1.11
SCReAM	5	0.22	107.08	0.72
Sprout	5	0.66	108.36	0.92
TaoVA-100x	5	135.72	109.47	0.84
TCP Vegas	5	390.52	129.22	0.87
Verus	5	95.12	178.31	2.66
PCC-Vivace	5	323.57	155.54	0.86
WebRTC media	3	0.05	107.47	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-10-02 17:54:24
End at: 2019-10-02 17:54:55
Local clock offset: 15.353 ms
Remote clock offset: 21.795 ms

# Below is generated by plot.py at 2019-10-02 20:46:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 462.88 Mbit/s
95th percentile per-packet one-way delay: 262.457 ms
Loss rate: 5.70%
-- Flow 1:
Average throughput: 462.88 Mbit/s
95th percentile per-packet one-way delay: 262.457 ms
Loss rate: 5.70%
```

Run 1: Report of TCP BBR — Data Link

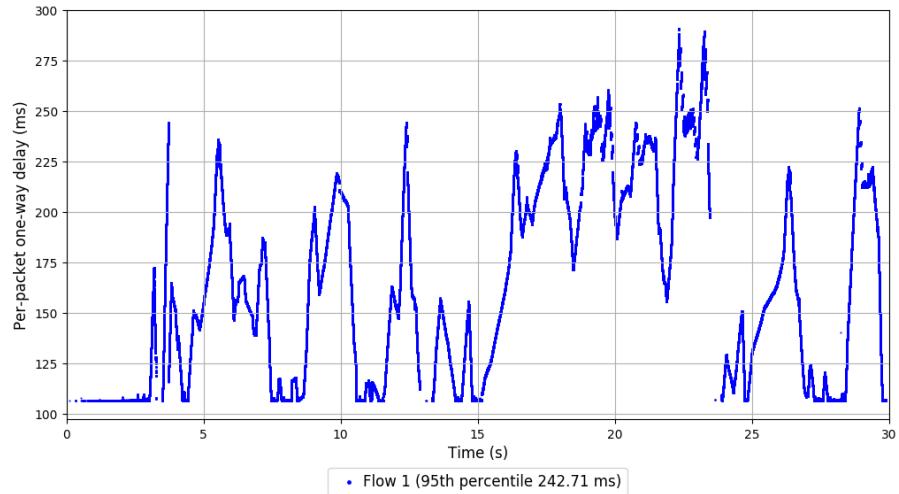
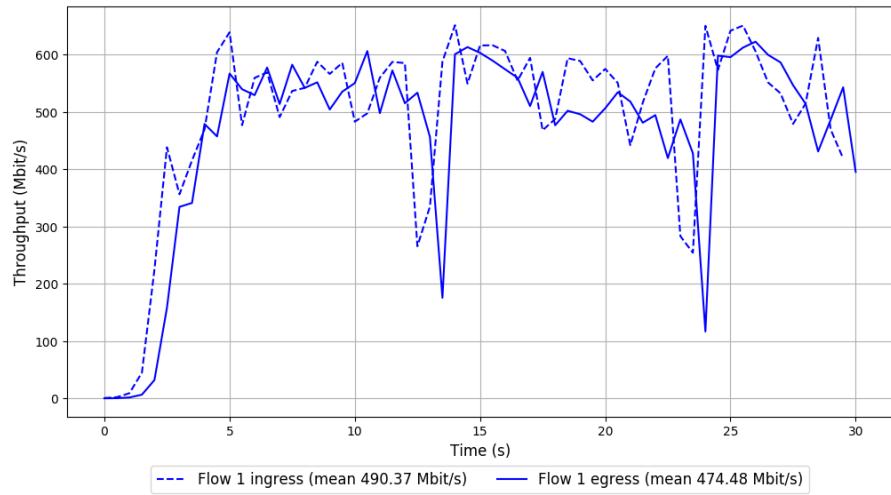


Run 2: Statistics of TCP BBR

```
Start at: 2019-10-02 18:30:52
End at: 2019-10-02 18:31:22
Local clock offset: 28.348 ms
Remote clock offset: 39.329 ms

# Below is generated by plot.py at 2019-10-02 20:47:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 474.48 Mbit/s
95th percentile per-packet one-way delay: 242.710 ms
Loss rate: 3.94%
-- Flow 1:
Average throughput: 474.48 Mbit/s
95th percentile per-packet one-way delay: 242.710 ms
Loss rate: 3.94%
```

Run 2: Report of TCP BBR — Data Link

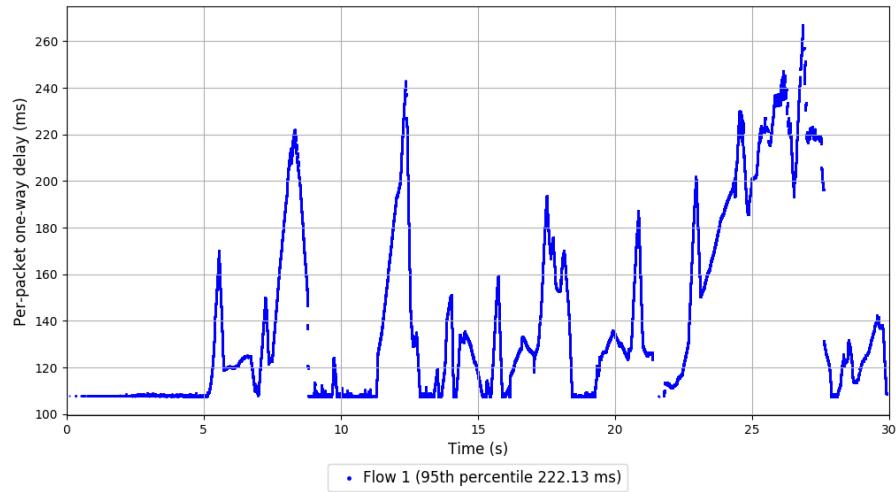
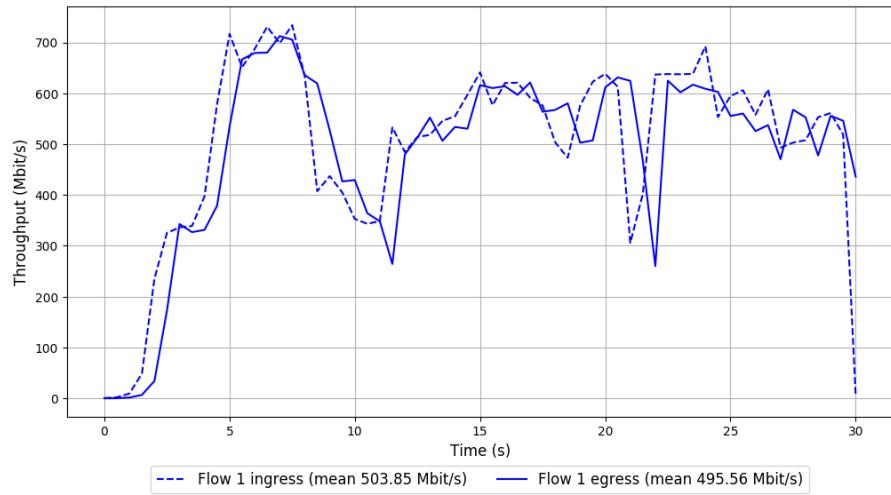


Run 3: Statistics of TCP BBR

```
Start at: 2019-10-02 19:07:14
End at: 2019-10-02 19:07:44
Local clock offset: 14.929 ms
Remote clock offset: 19.704 ms

# Below is generated by plot.py at 2019-10-02 20:47:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 495.56 Mbit/s
95th percentile per-packet one-way delay: 222.131 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 495.56 Mbit/s
95th percentile per-packet one-way delay: 222.131 ms
Loss rate: 2.36%
```

Run 3: Report of TCP BBR — Data Link

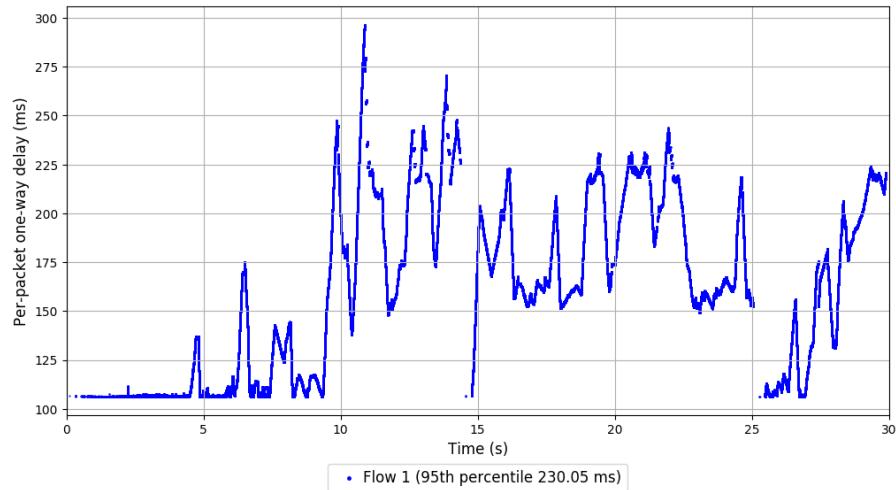
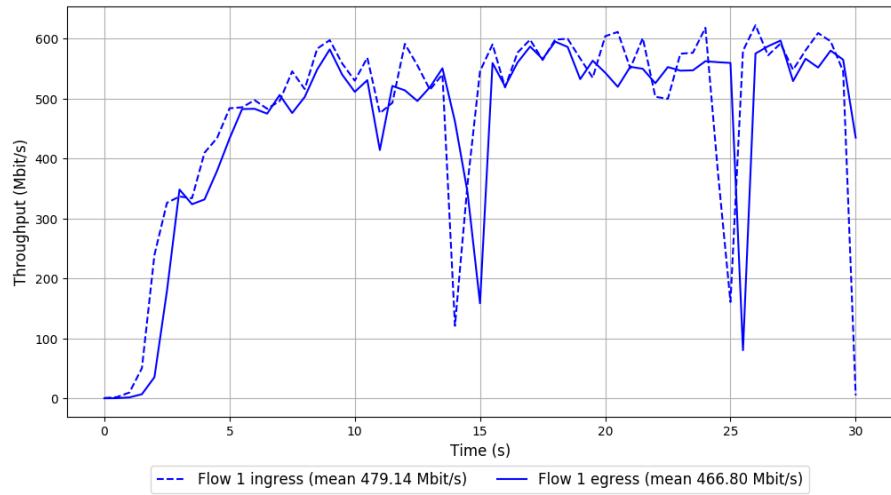


Run 4: Statistics of TCP BBR

```
Start at: 2019-10-02 19:43:06
End at: 2019-10-02 19:43:36
Local clock offset: 6.045 ms
Remote clock offset: 7.985 ms

# Below is generated by plot.py at 2019-10-02 20:47:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 466.80 Mbit/s
95th percentile per-packet one-way delay: 230.046 ms
Loss rate: 3.28%
-- Flow 1:
Average throughput: 466.80 Mbit/s
95th percentile per-packet one-way delay: 230.046 ms
Loss rate: 3.28%
```

Run 4: Report of TCP BBR — Data Link

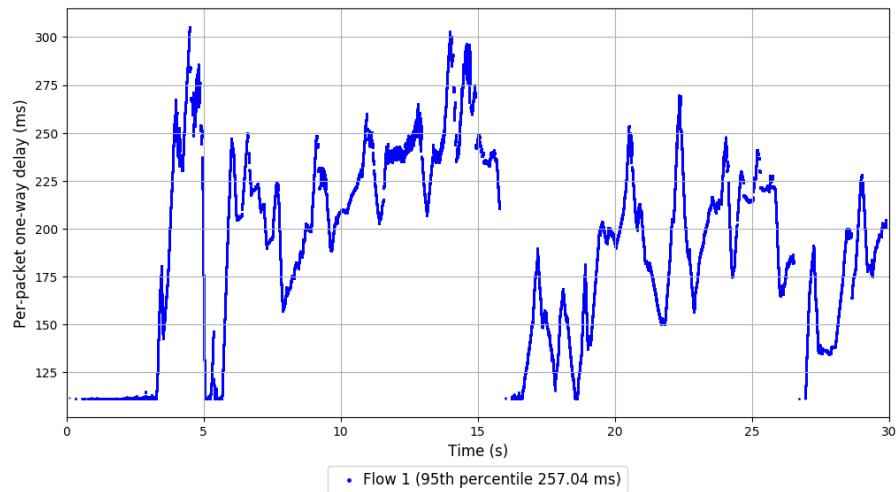
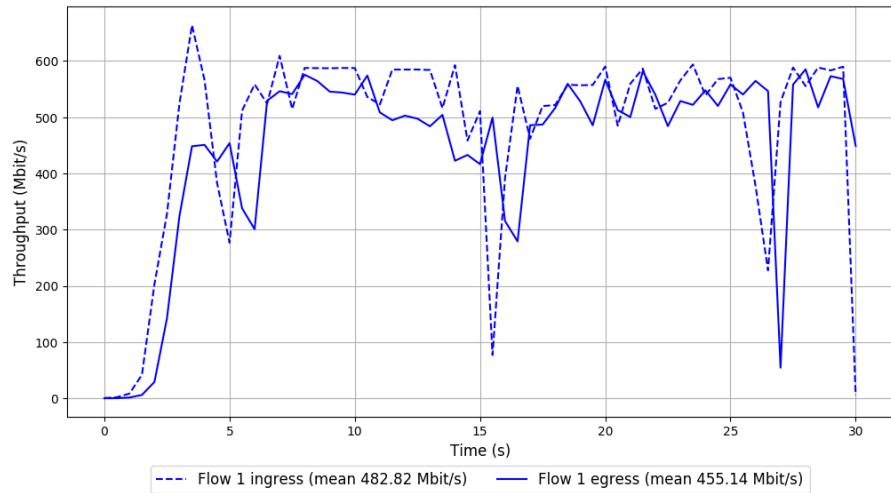


Run 5: Statistics of TCP BBR

```
Start at: 2019-10-02 20:18:39
End at: 2019-10-02 20:19:09
Local clock offset: 1.098 ms
Remote clock offset: 1.616 ms

# Below is generated by plot.py at 2019-10-02 20:47:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 455.14 Mbit/s
95th percentile per-packet one-way delay: 257.036 ms
Loss rate: 6.43%
-- Flow 1:
Average throughput: 455.14 Mbit/s
95th percentile per-packet one-way delay: 257.036 ms
Loss rate: 6.43%
```

Run 5: Report of TCP BBR — Data Link

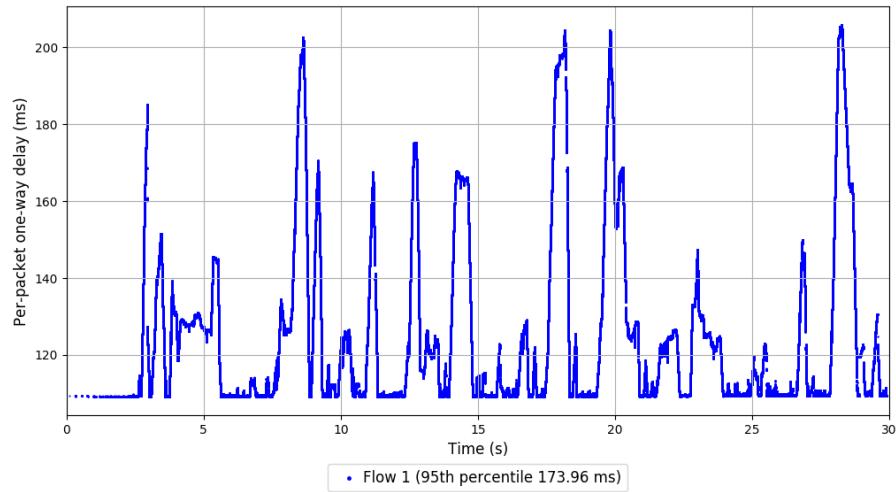
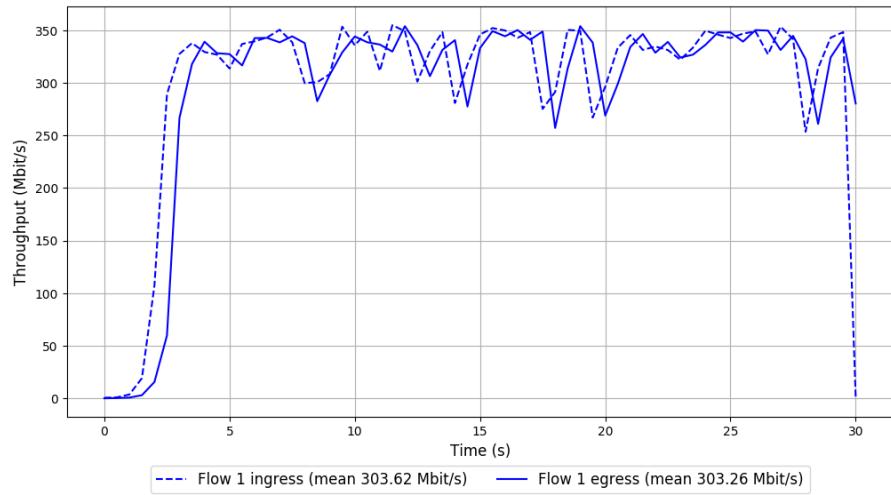


Run 1: Statistics of Copa

```
Start at: 2019-10-02 17:52:45
End at: 2019-10-02 17:53:15
Local clock offset: 13.749 ms
Remote clock offset: 19.846 ms

# Below is generated by plot.py at 2019-10-02 20:48:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 303.26 Mbit/s
95th percentile per-packet one-way delay: 173.962 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 303.26 Mbit/s
95th percentile per-packet one-way delay: 173.962 ms
Loss rate: 0.83%
```

Run 1: Report of Copa — Data Link

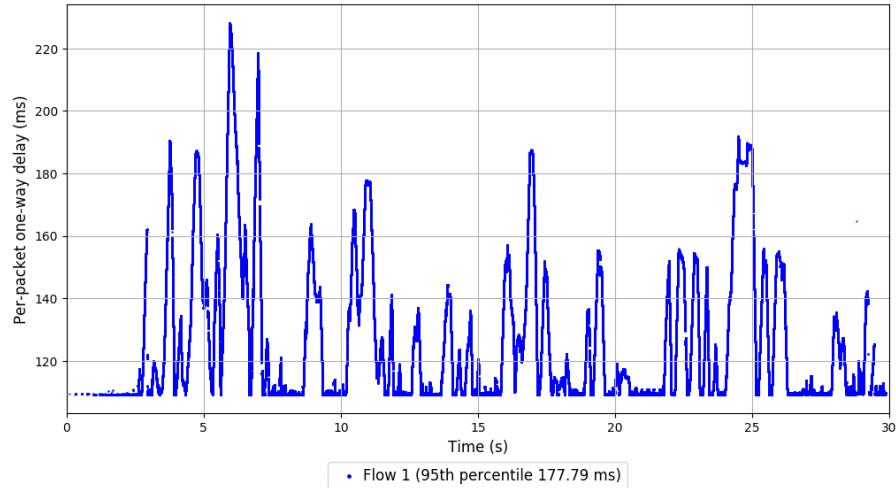
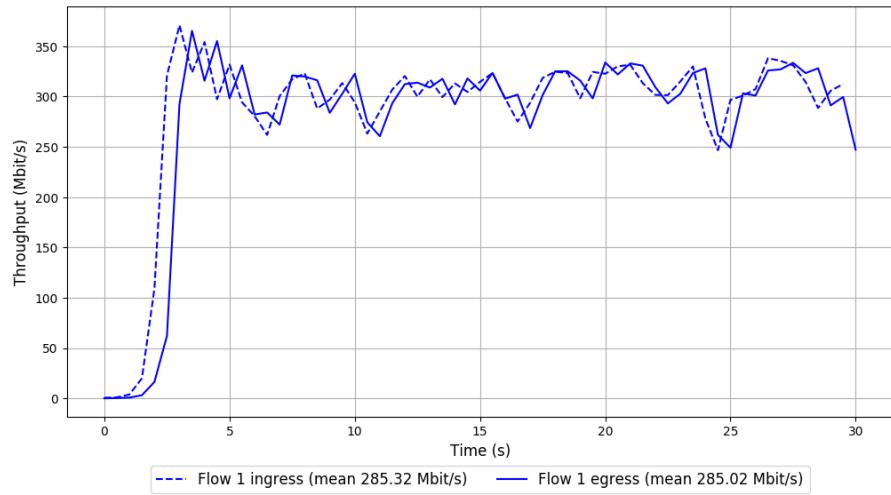


Run 2: Statistics of Copa

```
Start at: 2019-10-02 18:29:14
End at: 2019-10-02 18:29:44
Local clock offset: 27.003 ms
Remote clock offset: 37.744 ms

# Below is generated by plot.py at 2019-10-02 20:48:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.02 Mbit/s
95th percentile per-packet one-way delay: 177.791 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 285.02 Mbit/s
95th percentile per-packet one-way delay: 177.791 ms
Loss rate: 0.83%
```

Run 2: Report of Copa — Data Link

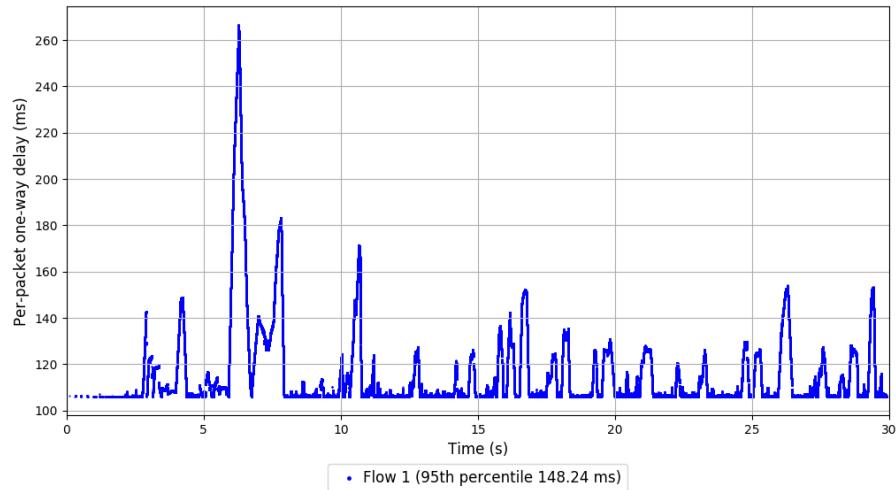
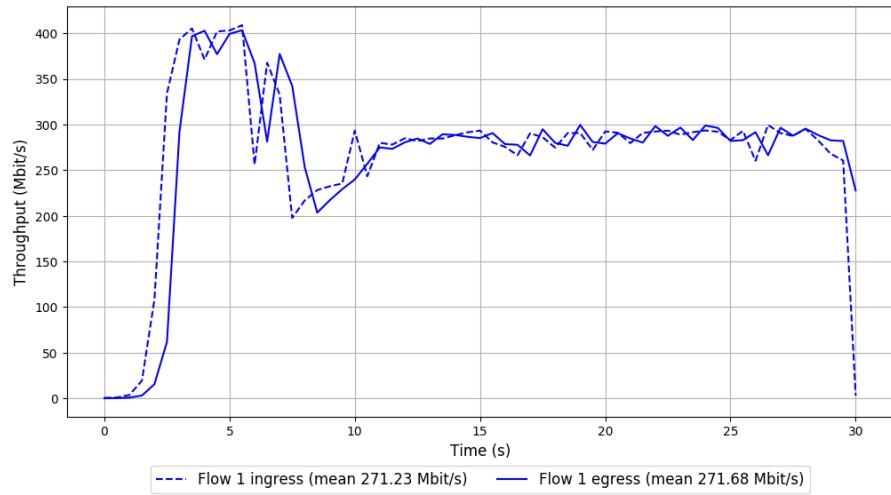


Run 3: Statistics of Copa

```
Start at: 2019-10-02 19:05:37
End at: 2019-10-02 19:06:07
Local clock offset: 14.66 ms
Remote clock offset: 20.493 ms

# Below is generated by plot.py at 2019-10-02 20:48:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 271.68 Mbit/s
95th percentile per-packet one-way delay: 148.239 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 271.68 Mbit/s
95th percentile per-packet one-way delay: 148.239 ms
Loss rate: 0.55%
```

Run 3: Report of Copa — Data Link

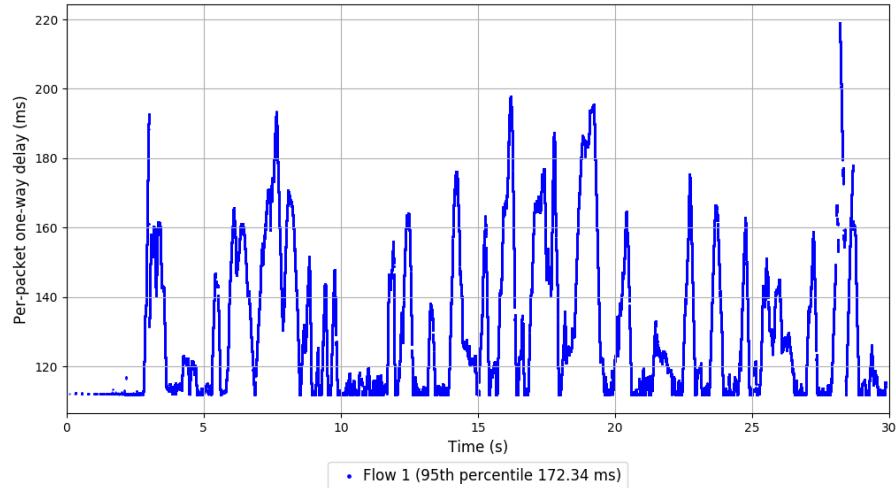
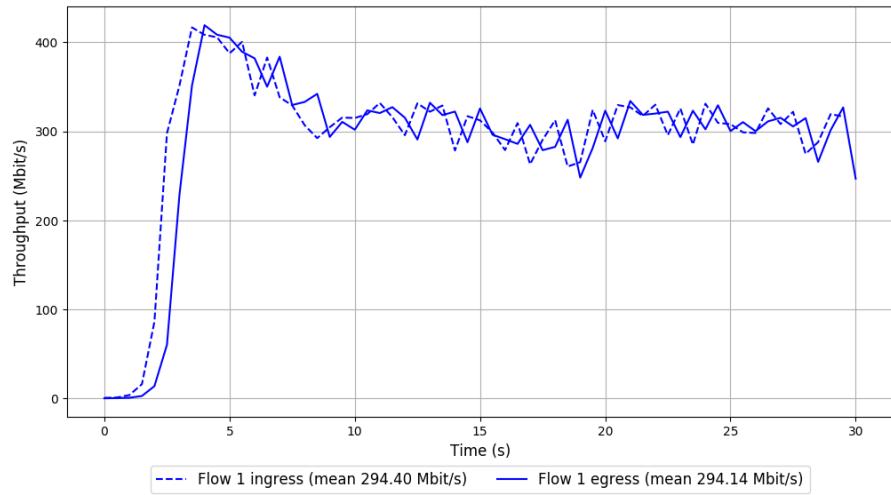


Run 4: Statistics of Copa

```
Start at: 2019-10-02 19:41:26
End at: 2019-10-02 19:41:56
Local clock offset: 6.842 ms
Remote clock offset: 9.594 ms

# Below is generated by plot.py at 2019-10-02 20:56:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 294.14 Mbit/s
95th percentile per-packet one-way delay: 172.345 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 294.14 Mbit/s
95th percentile per-packet one-way delay: 172.345 ms
Loss rate: 0.82%
```

Run 4: Report of Copa — Data Link

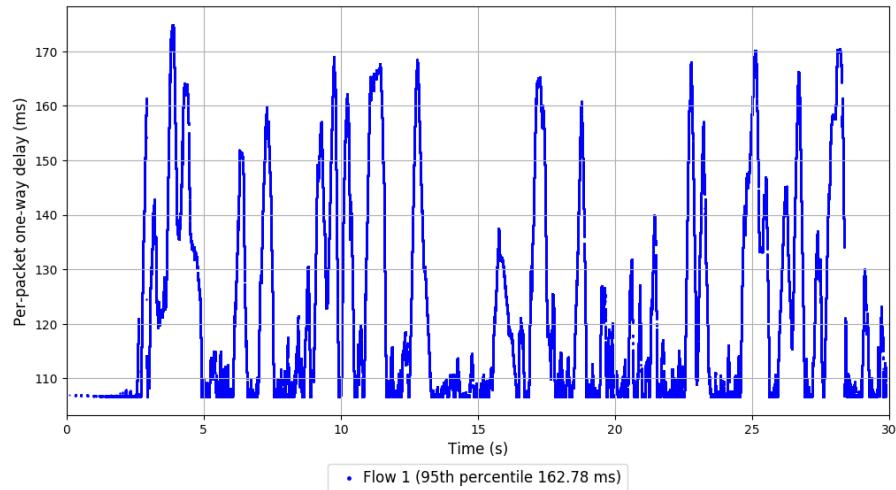
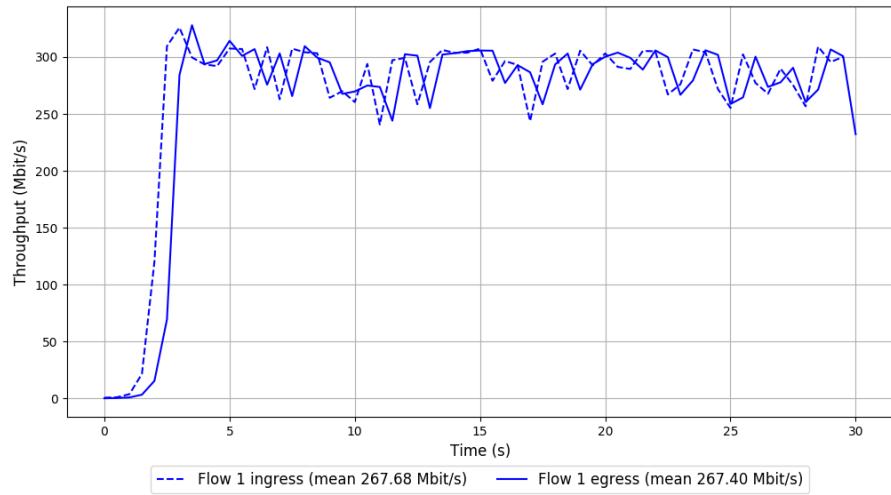


Run 5: Statistics of Copa

```
Start at: 2019-10-02 20:17:01
End at: 2019-10-02 20:17:31
Local clock offset: 1.304 ms
Remote clock offset: 1.881 ms

# Below is generated by plot.py at 2019-10-02 20:56:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.40 Mbit/s
95th percentile per-packet one-way delay: 162.779 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 267.40 Mbit/s
95th percentile per-packet one-way delay: 162.779 ms
Loss rate: 0.82%
```

Run 5: Report of Copa — Data Link

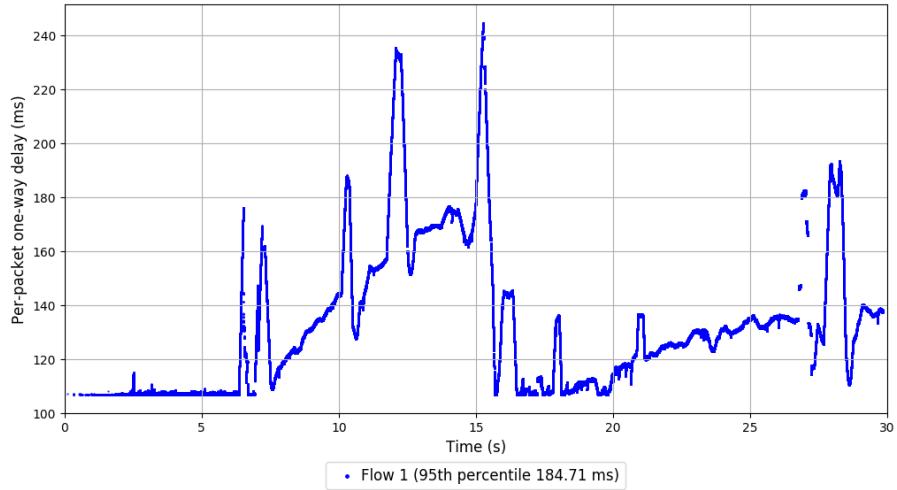
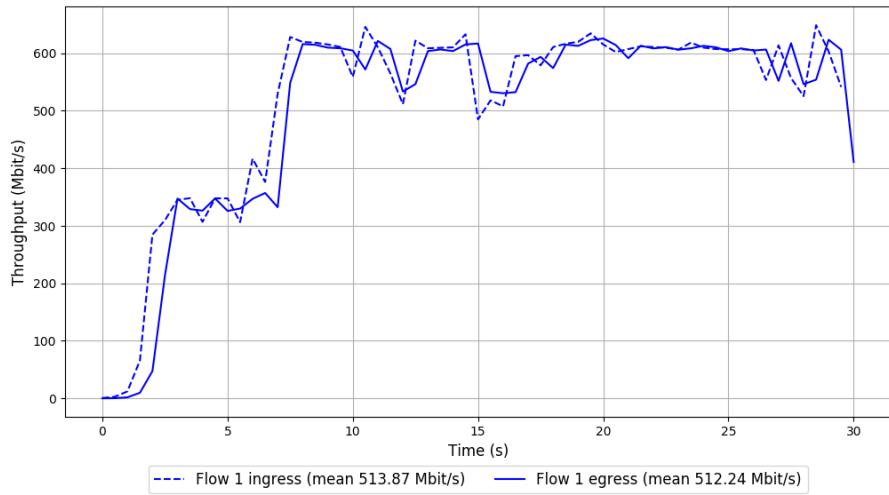


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-10-02 17:35:02
End at: 2019-10-02 17:35:32
Local clock offset: 6.696 ms
Remote clock offset: 9.173 ms

# Below is generated by plot.py at 2019-10-02 20:56:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 512.24 Mbit/s
95th percentile per-packet one-way delay: 184.710 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 512.24 Mbit/s
95th percentile per-packet one-way delay: 184.710 ms
Loss rate: 1.03%
```

Run 1: Report of TCP Cubic — Data Link

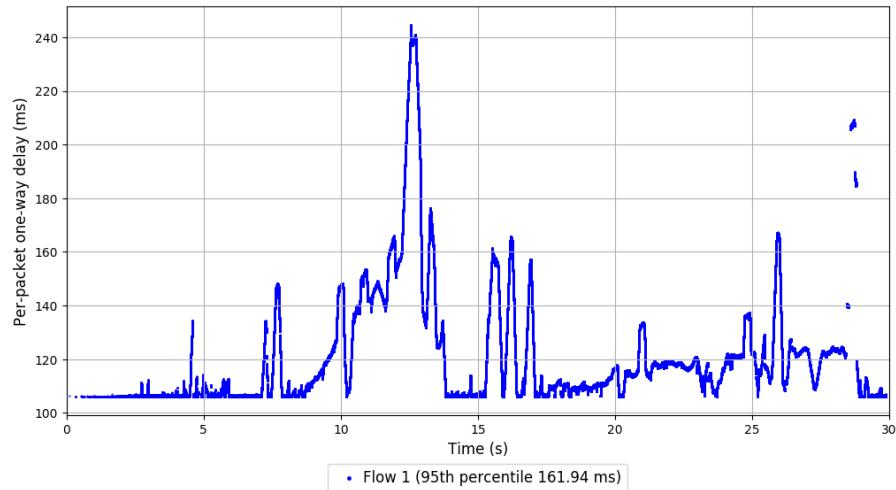
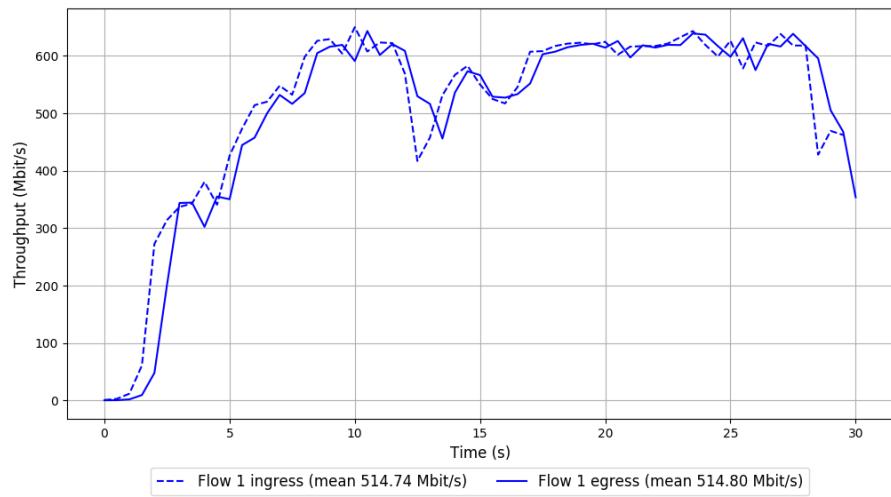


Run 2: Statistics of TCP Cubic

```
Start at: 2019-10-02 18:11:13
End at: 2019-10-02 18:11:43
Local clock offset: 15.311 ms
Remote clock offset: 21.512 ms

# Below is generated by plot.py at 2019-10-02 20:56:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 514.80 Mbit/s
95th percentile per-packet one-way delay: 161.937 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 514.80 Mbit/s
95th percentile per-packet one-way delay: 161.937 ms
Loss rate: 0.70%
```

Run 2: Report of TCP Cubic — Data Link

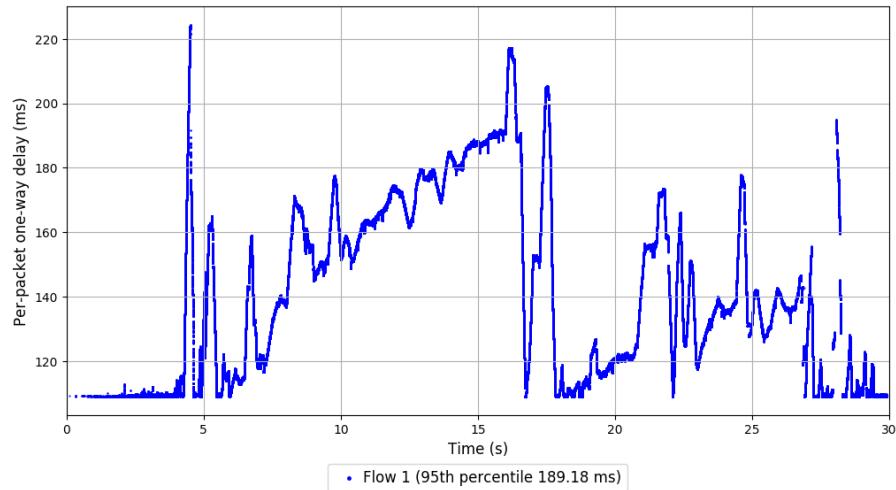
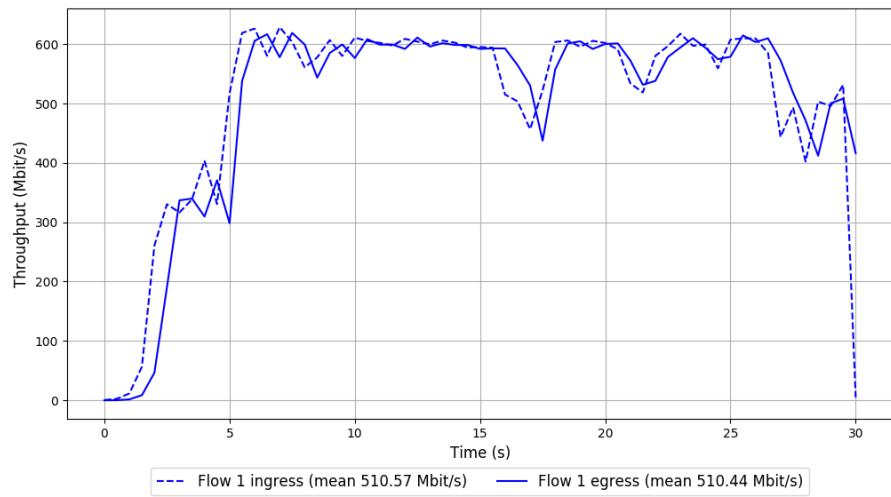


Run 3: Statistics of TCP Cubic

```
Start at: 2019-10-02 18:47:36
End at: 2019-10-02 18:48:06
Local clock offset: 11.65 ms
Remote clock offset: 16.049 ms

# Below is generated by plot.py at 2019-10-02 20:56:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 510.44 Mbit/s
95th percentile per-packet one-way delay: 189.179 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 510.44 Mbit/s
95th percentile per-packet one-way delay: 189.179 ms
Loss rate: 0.75%
```

Run 3: Report of TCP Cubic — Data Link

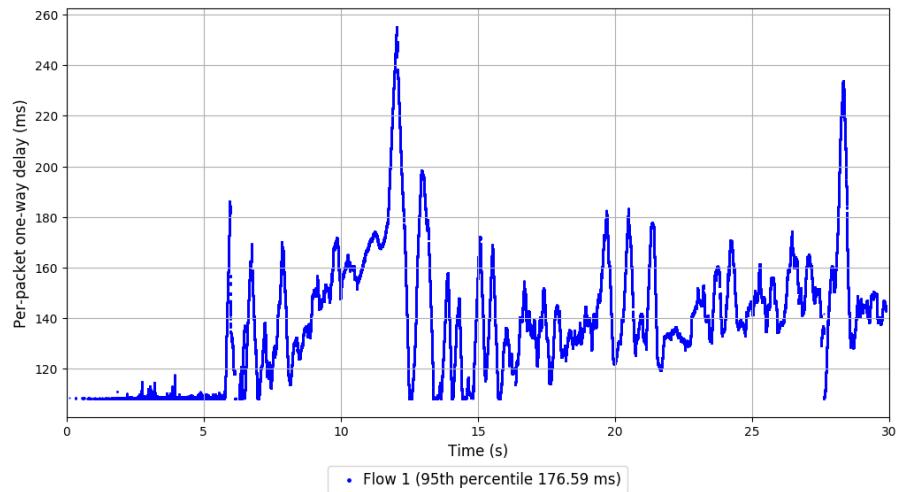
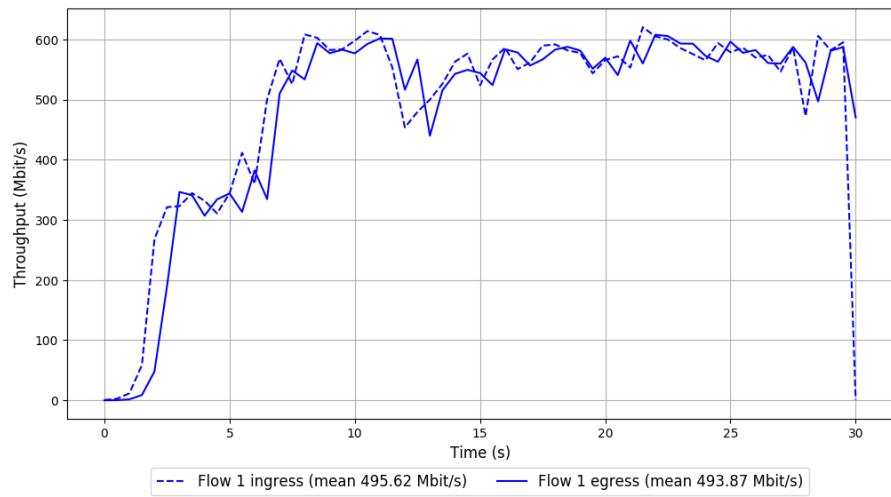


Run 4: Statistics of TCP Cubic

```
Start at: 2019-10-02 19:23:41
End at: 2019-10-02 19:24:11
Local clock offset: 4.757 ms
Remote clock offset: 7.75 ms

# Below is generated by plot.py at 2019-10-02 20:56:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 493.87 Mbit/s
95th percentile per-packet one-way delay: 176.591 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 493.87 Mbit/s
95th percentile per-packet one-way delay: 176.591 ms
Loss rate: 1.07%
```

Run 4: Report of TCP Cubic — Data Link

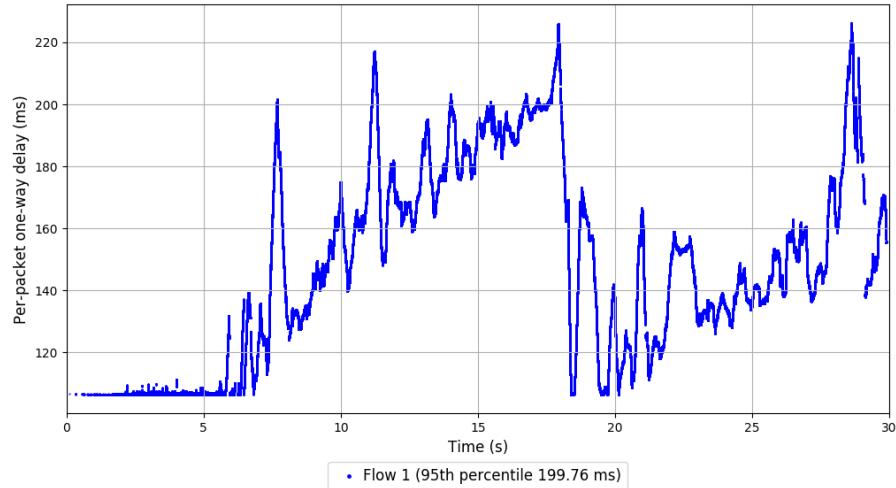
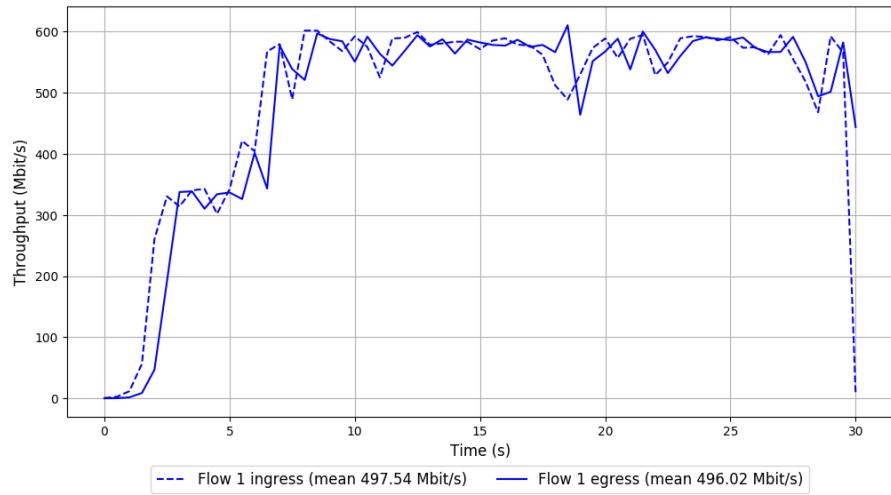


Run 5: Statistics of TCP Cubic

```
Start at: 2019-10-02 19:59:10
End at: 2019-10-02 19:59:40
Local clock offset: 1.595 ms
Remote clock offset: 2.731 ms

# Below is generated by plot.py at 2019-10-02 20:56:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 496.02 Mbit/s
95th percentile per-packet one-way delay: 199.758 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 496.02 Mbit/s
95th percentile per-packet one-way delay: 199.758 ms
Loss rate: 1.02%
```

Run 5: Report of TCP Cubic — Data Link

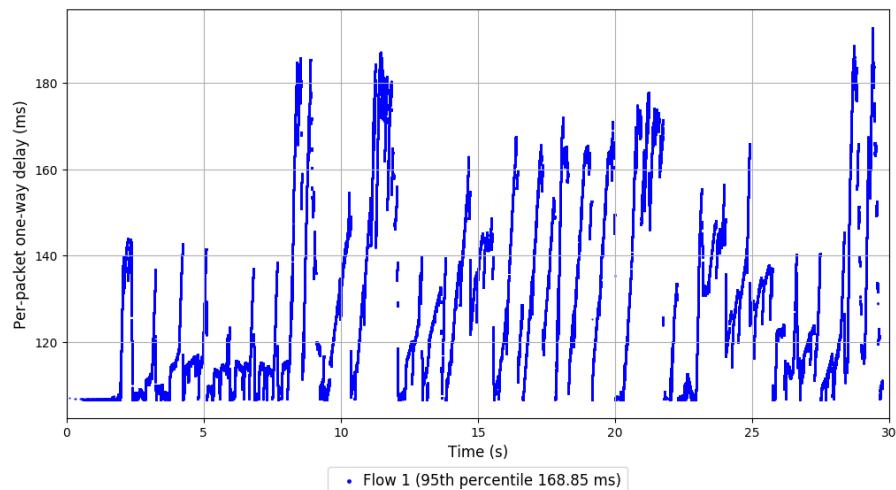
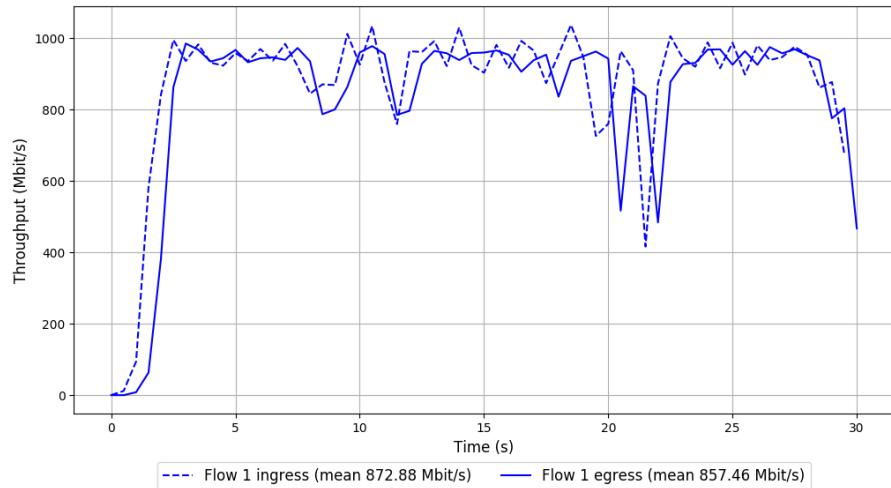


```
Run 1: Statistics of FillP
```

```
Start at: 2019-10-02 17:29:03
End at: 2019-10-02 17:29:33
Local clock offset: 5.135 ms
Remote clock offset: 6.993 ms

# Below is generated by plot.py at 2019-10-02 21:06:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 857.46 Mbit/s
95th percentile per-packet one-way delay: 168.848 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 857.46 Mbit/s
95th percentile per-packet one-way delay: 168.848 ms
Loss rate: 2.47%
```

Run 1: Report of FillP — Data Link

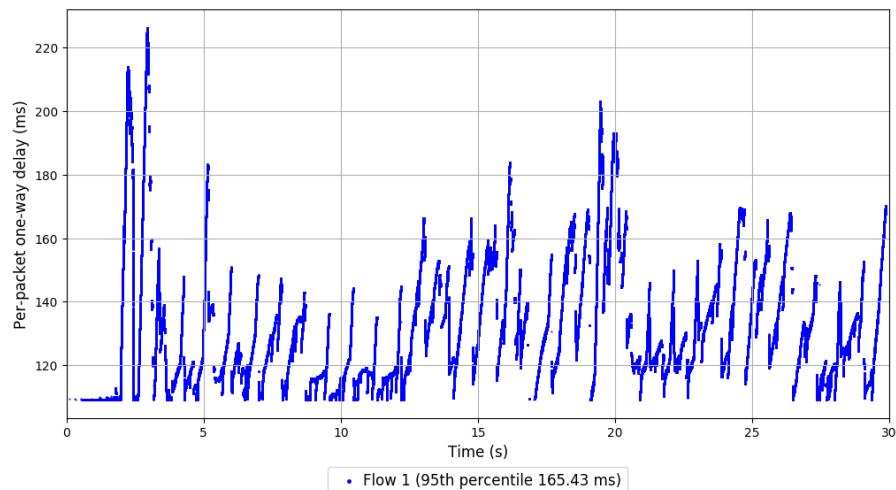
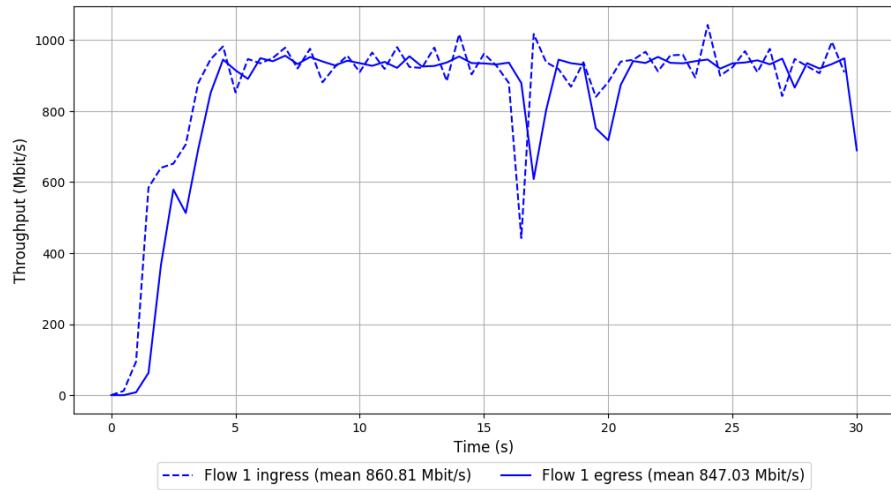


Run 2: Statistics of FillP

```
Start at: 2019-10-02 18:05:10
End at: 2019-10-02 18:05:40
Local clock offset: 14.849 ms
Remote clock offset: 20.783 ms

# Below is generated by plot.py at 2019-10-02 21:15:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 847.03 Mbit/s
95th percentile per-packet one-way delay: 165.428 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 847.03 Mbit/s
95th percentile per-packet one-way delay: 165.428 ms
Loss rate: 2.32%
```

Run 2: Report of FillP — Data Link

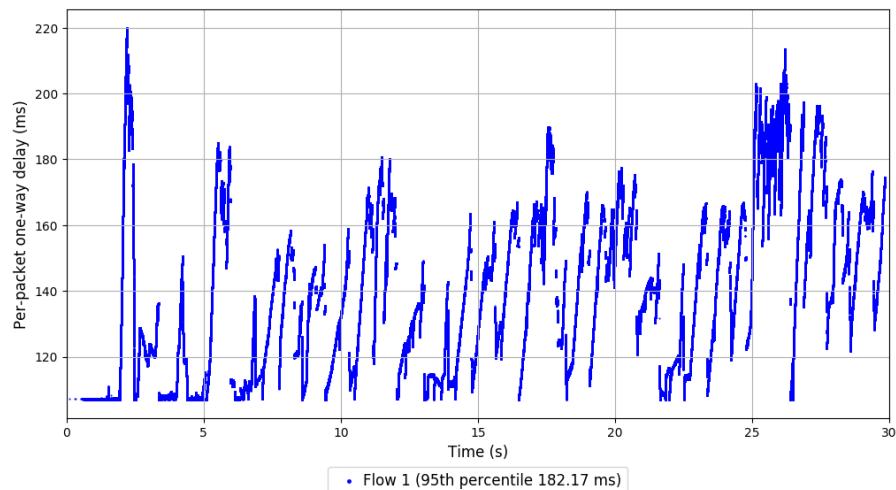
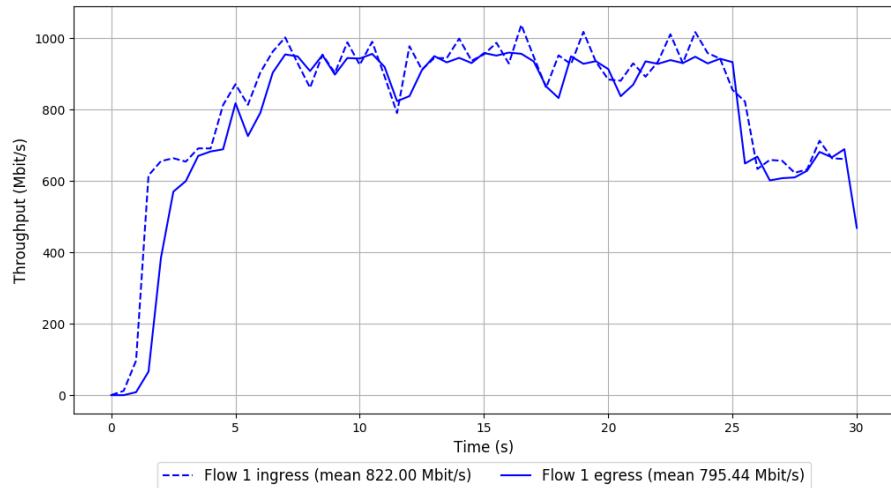


Run 3: Statistics of FillP

```
Start at: 2019-10-02 18:41:33
End at: 2019-10-02 18:42:03
Local clock offset: 14.616 ms
Remote clock offset: 19.945 ms

# Below is generated by plot.py at 2019-10-02 21:15:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 795.44 Mbit/s
95th percentile per-packet one-way delay: 182.167 ms
Loss rate: 3.93%
-- Flow 1:
Average throughput: 795.44 Mbit/s
95th percentile per-packet one-way delay: 182.167 ms
Loss rate: 3.93%
```

Run 3: Report of FillP — Data Link

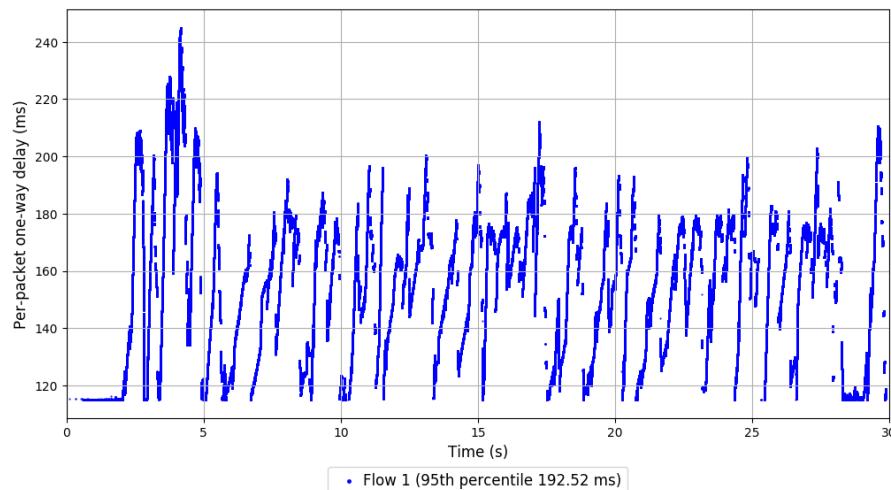
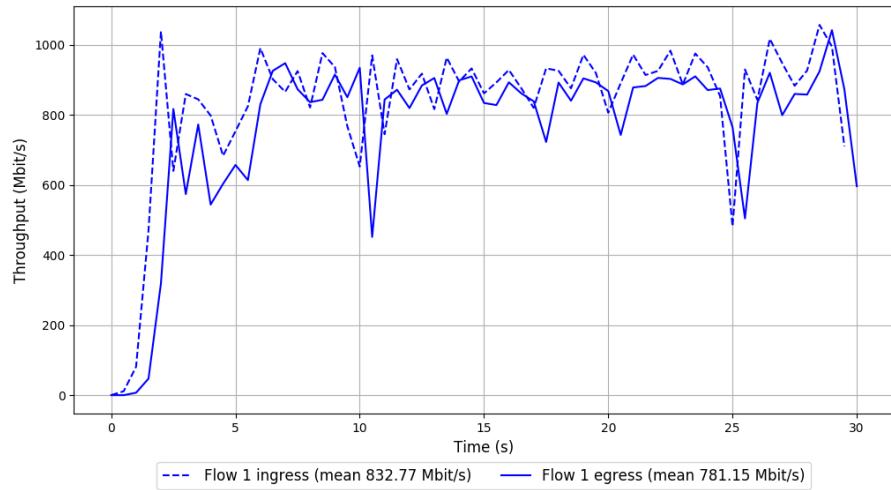


Run 4: Statistics of FillP

```
Start at: 2019-10-02 19:17:57
End at: 2019-10-02 19:18:27
Local clock offset: 6.363 ms
Remote clock offset: 8.892 ms

# Below is generated by plot.py at 2019-10-02 21:15:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 781.15 Mbit/s
95th percentile per-packet one-way delay: 192.520 ms
Loss rate: 6.72%
-- Flow 1:
Average throughput: 781.15 Mbit/s
95th percentile per-packet one-way delay: 192.520 ms
Loss rate: 6.72%
```

Run 4: Report of FillP — Data Link

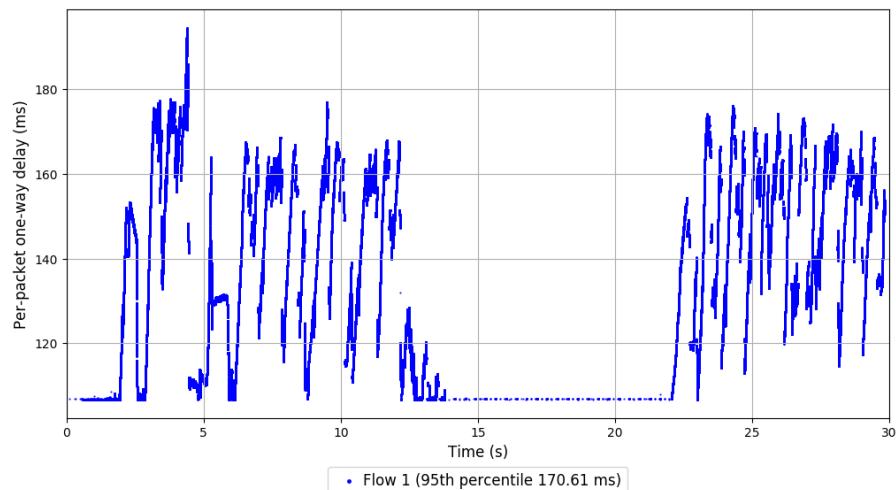
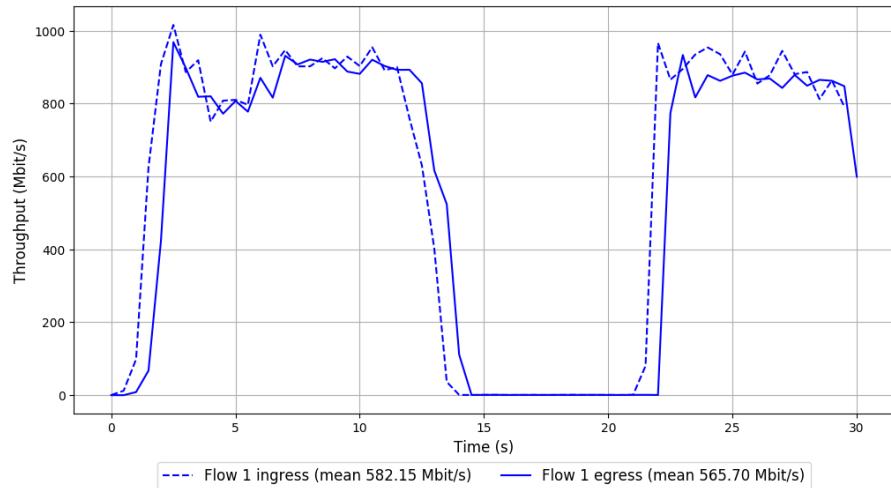


```
Run 5: Statistics of FillP
```

```
Start at: 2019-10-02 19:53:35
End at: 2019-10-02 19:54:05
Local clock offset: 2.168 ms
Remote clock offset: 3.075 ms

# Below is generated by plot.py at 2019-10-02 21:15:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.70 Mbit/s
95th percentile per-packet one-way delay: 170.612 ms
Loss rate: 3.53%
-- Flow 1:
Average throughput: 565.70 Mbit/s
95th percentile per-packet one-way delay: 170.612 ms
Loss rate: 3.53%
```

Run 5: Report of FillP — Data Link

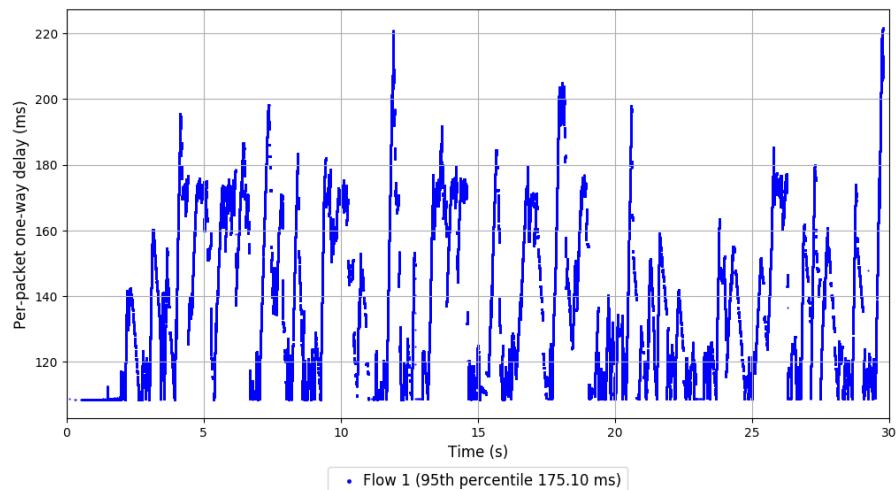
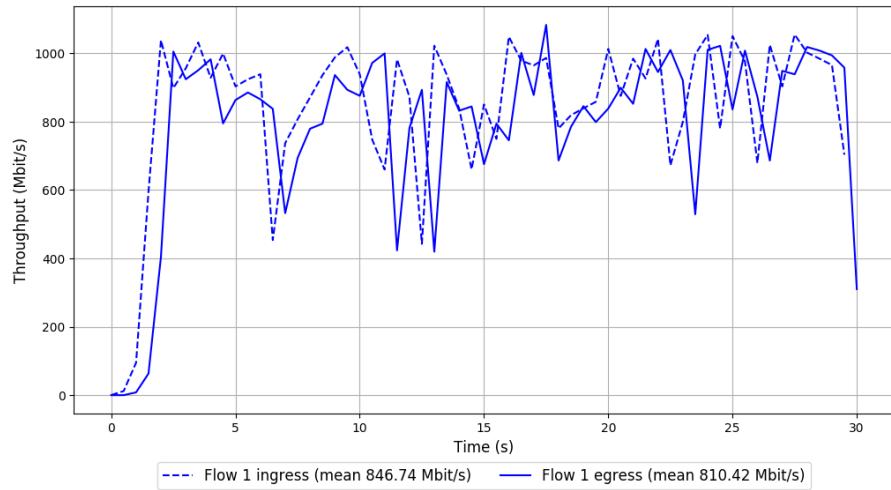


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-10-02 17:57:29
End at: 2019-10-02 17:57:59
Local clock offset: 18.151 ms
Remote clock offset: 26.541 ms

# Below is generated by plot.py at 2019-10-02 21:15:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 810.42 Mbit/s
95th percentile per-packet one-way delay: 175.102 ms
Loss rate: 4.97%
-- Flow 1:
Average throughput: 810.42 Mbit/s
95th percentile per-packet one-way delay: 175.102 ms
Loss rate: 4.97%
```

Run 1: Report of FillP-Sheep — Data Link

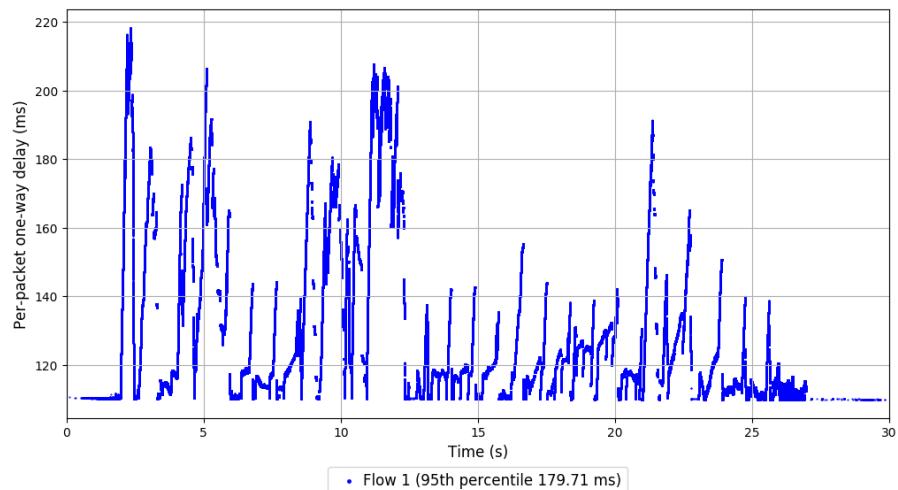
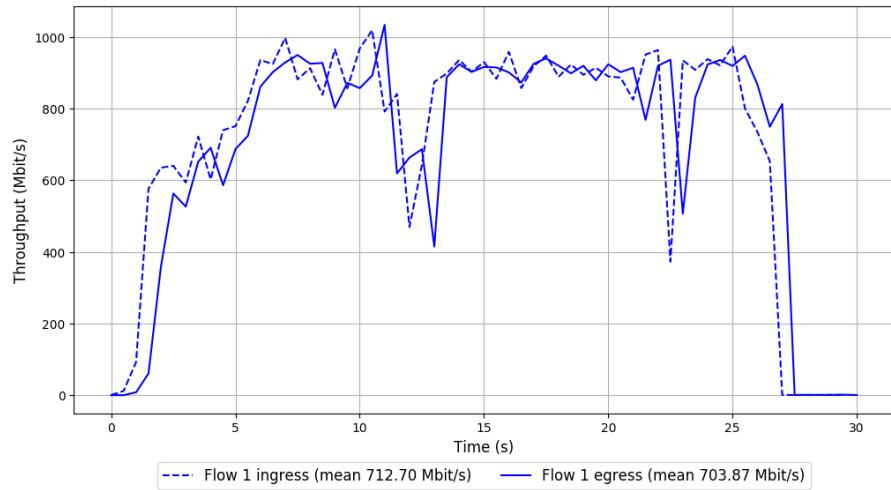


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-10-02 18:34:03
End at: 2019-10-02 18:34:33
Local clock offset: 26.507 ms
Remote clock offset: 35.834 ms

# Below is generated by plot.py at 2019-10-02 21:15:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 703.87 Mbit/s
95th percentile per-packet one-way delay: 179.706 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 703.87 Mbit/s
95th percentile per-packet one-way delay: 179.706 ms
Loss rate: 2.01%
```

Run 2: Report of FillP-Sheep — Data Link

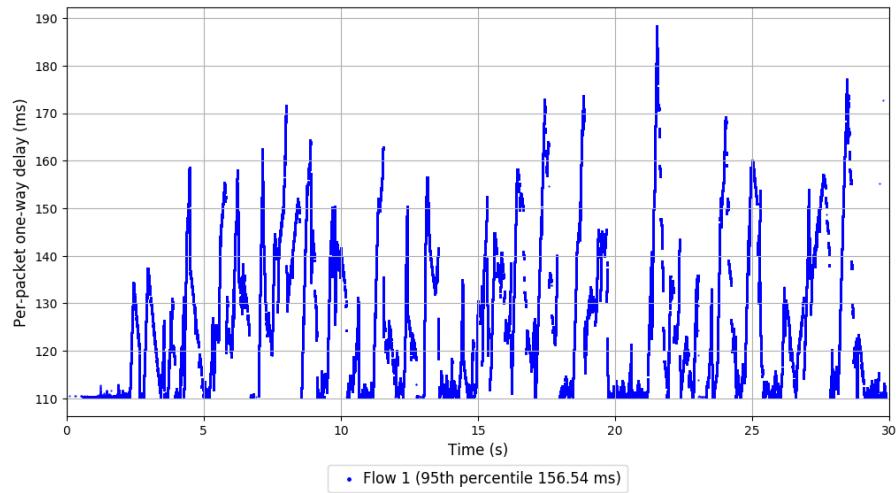
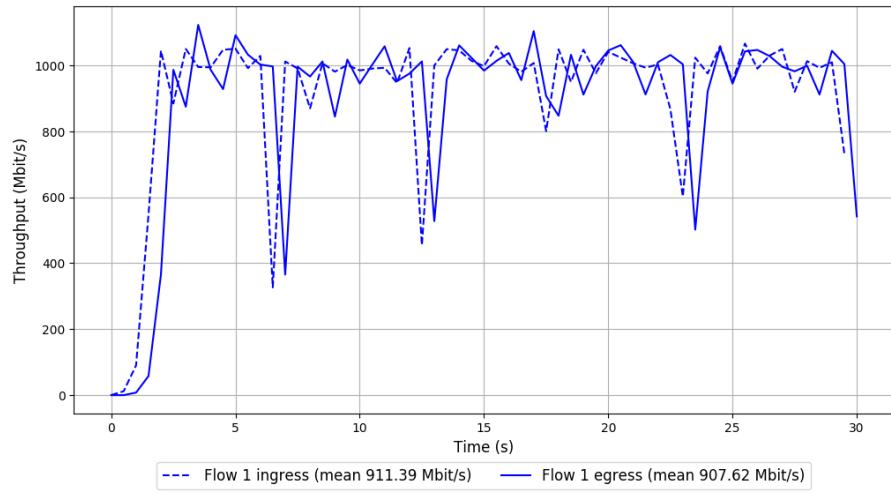


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-10-02 19:10:21
End at: 2019-10-02 19:10:51
Local clock offset: 11.545 ms
Remote clock offset: 14.957 ms

# Below is generated by plot.py at 2019-10-02 21:17:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 907.62 Mbit/s
95th percentile per-packet one-way delay: 156.543 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 907.62 Mbit/s
95th percentile per-packet one-way delay: 156.543 ms
Loss rate: 1.14%
```

Run 3: Report of FillP-Sheep — Data Link

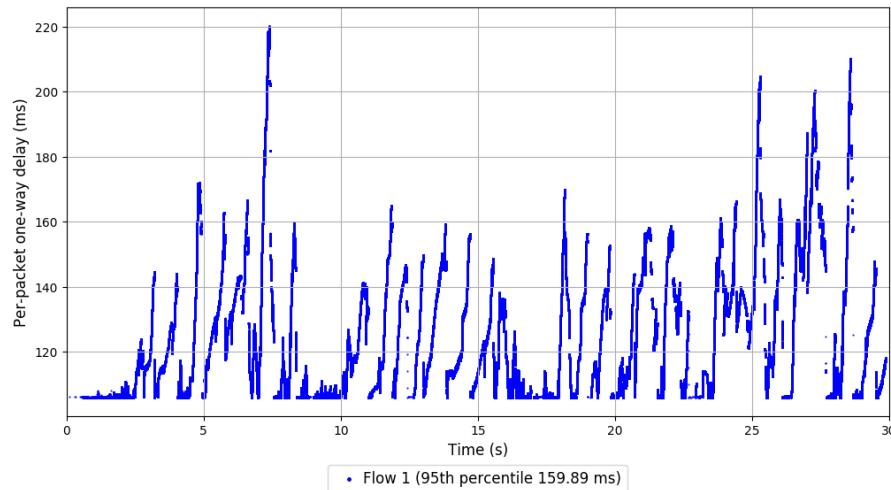
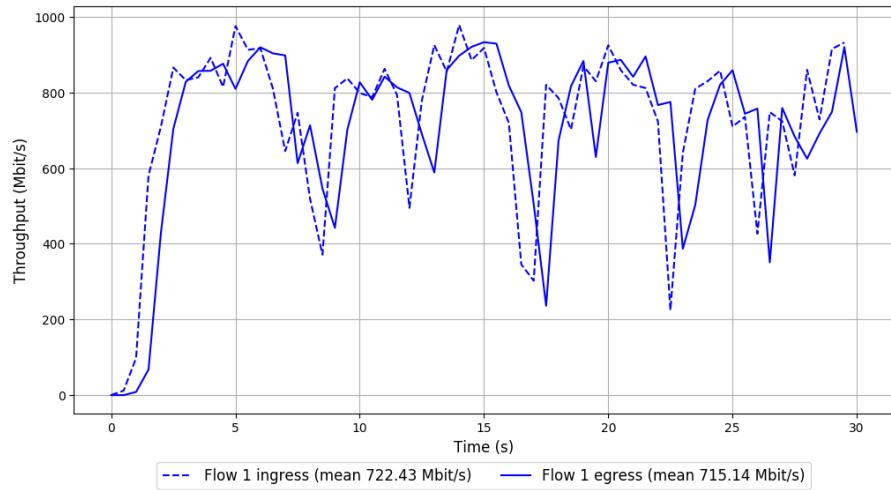


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-10-02 19:46:10
End at: 2019-10-02 19:46:40
Local clock offset: 4.157 ms
Remote clock offset: 5.839 ms

# Below is generated by plot.py at 2019-10-02 21:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 715.14 Mbit/s
95th percentile per-packet one-way delay: 159.888 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 715.14 Mbit/s
95th percentile per-packet one-way delay: 159.888 ms
Loss rate: 1.72%
```

Run 4: Report of FillP-Sheep — Data Link

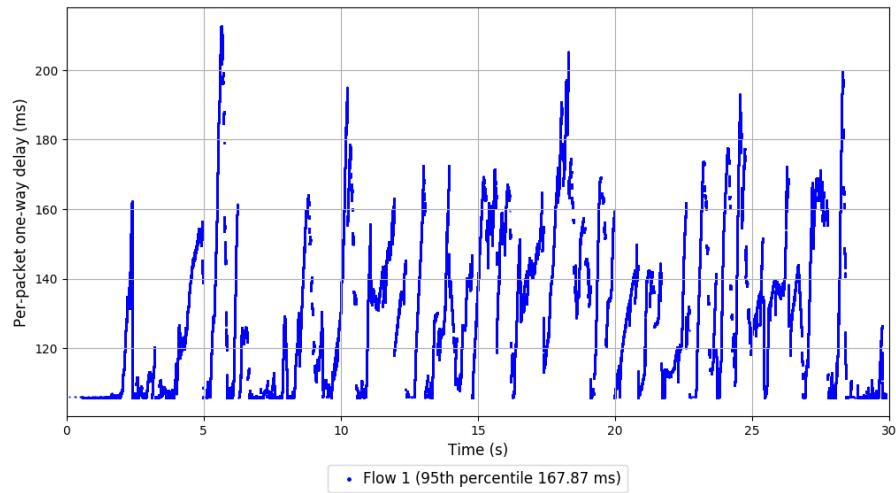
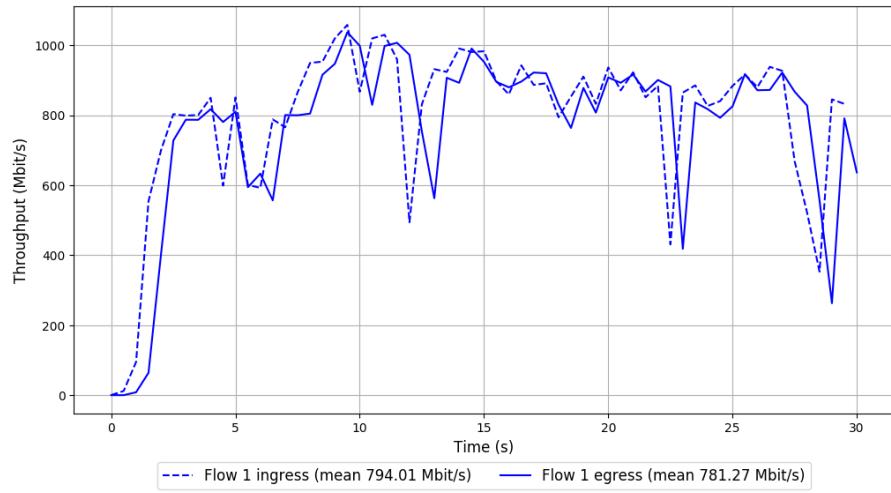


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-10-02 20:21:44
End at: 2019-10-02 20:22:14
Local clock offset: 0.244 ms
Remote clock offset: 0.832 ms

# Below is generated by plot.py at 2019-10-02 21:27:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 781.27 Mbit/s
95th percentile per-packet one-way delay: 167.865 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 781.27 Mbit/s
95th percentile per-packet one-way delay: 167.865 ms
Loss rate: 2.31%
```

Run 5: Report of FillP-Sheep — Data Link

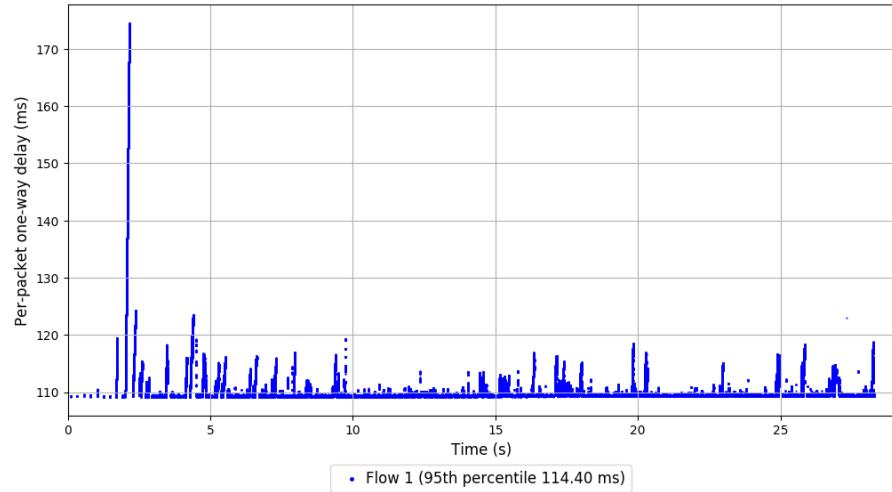
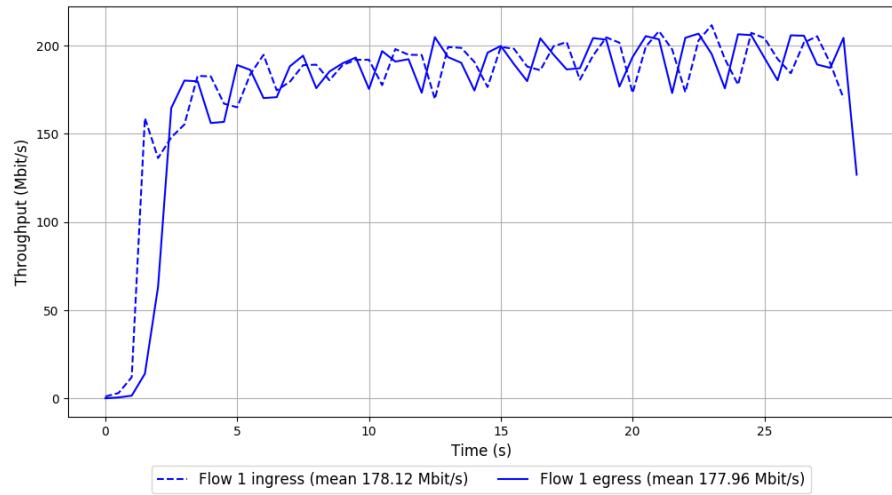


Run 1: Statistics of Indigo

```
Start at: 2019-10-02 17:56:02
End at: 2019-10-02 17:56:32
Local clock offset: 17.092 ms
Remote clock offset: 24.484 ms

# Below is generated by plot.py at 2019-10-02 21:27:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.96 Mbit/s
95th percentile per-packet one-way delay: 114.399 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 177.96 Mbit/s
95th percentile per-packet one-way delay: 114.399 ms
Loss rate: 0.85%
```

Run 1: Report of Indigo — Data Link

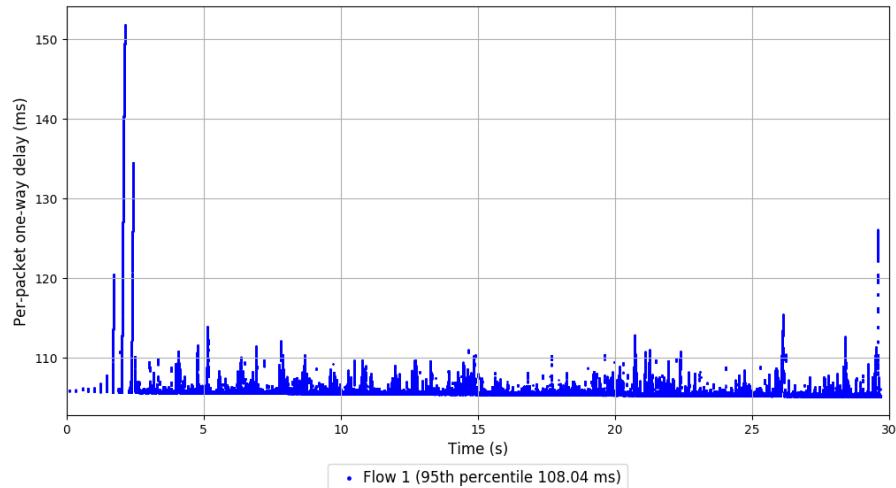
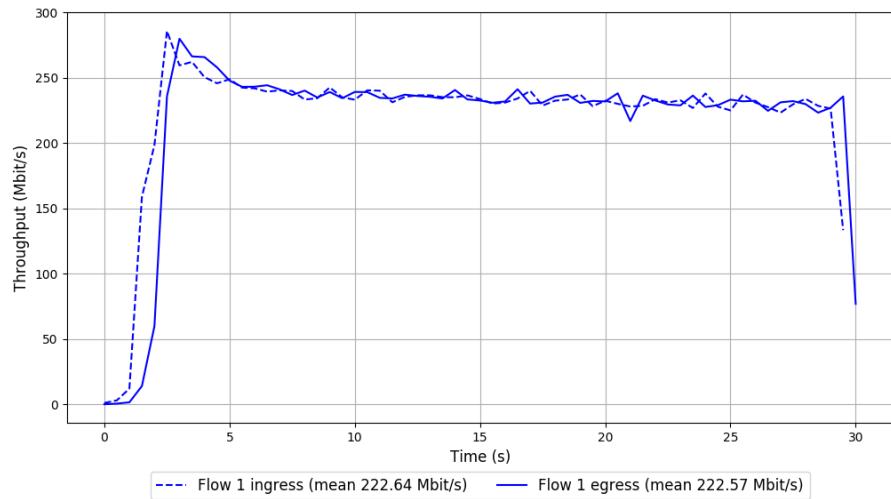


Run 2: Statistics of Indigo

```
Start at: 2019-10-02 18:32:31
End at: 2019-10-02 18:33:01
Local clock offset: 29.717 ms
Remote clock offset: 41.581 ms

# Below is generated by plot.py at 2019-10-02 21:27:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.57 Mbit/s
95th percentile per-packet one-way delay: 108.039 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 222.57 Mbit/s
95th percentile per-packet one-way delay: 108.039 ms
Loss rate: 0.75%
```

Run 2: Report of Indigo — Data Link

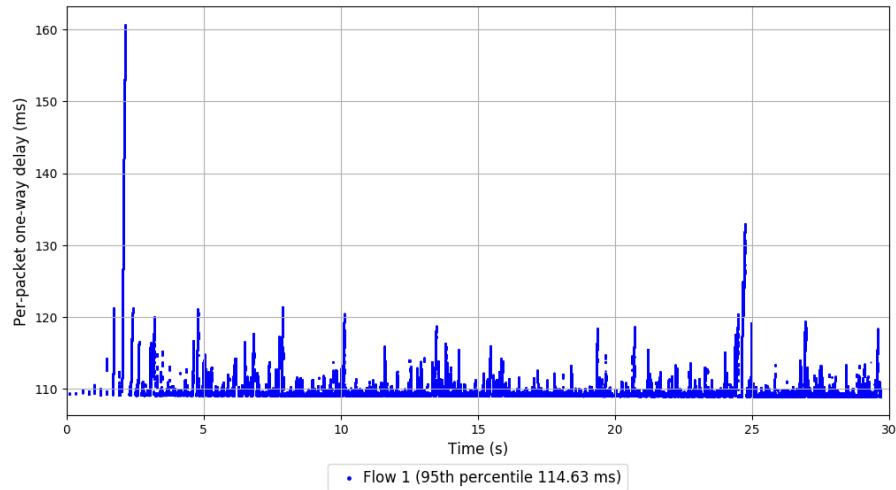
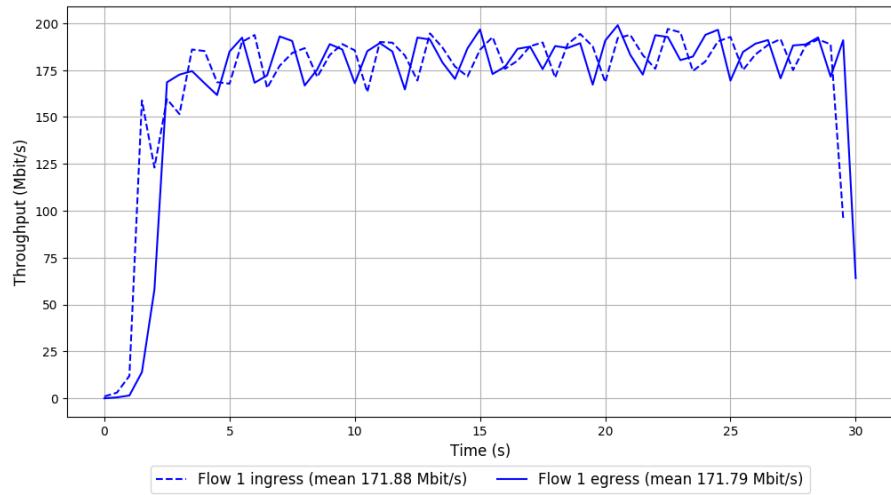


Run 3: Statistics of Indigo

```
Start at: 2019-10-02 19:08:54
End at: 2019-10-02 19:09:24
Local clock offset: 12.509 ms
Remote clock offset: 17.026 ms

# Below is generated by plot.py at 2019-10-02 21:27:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.79 Mbit/s
95th percentile per-packet one-way delay: 114.627 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 171.79 Mbit/s
95th percentile per-packet one-way delay: 114.627 ms
Loss rate: 0.78%
```

Run 3: Report of Indigo — Data Link

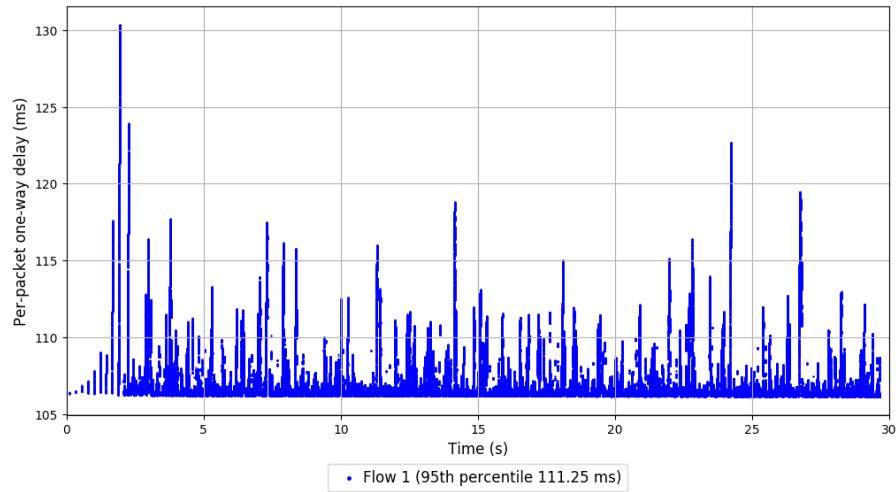
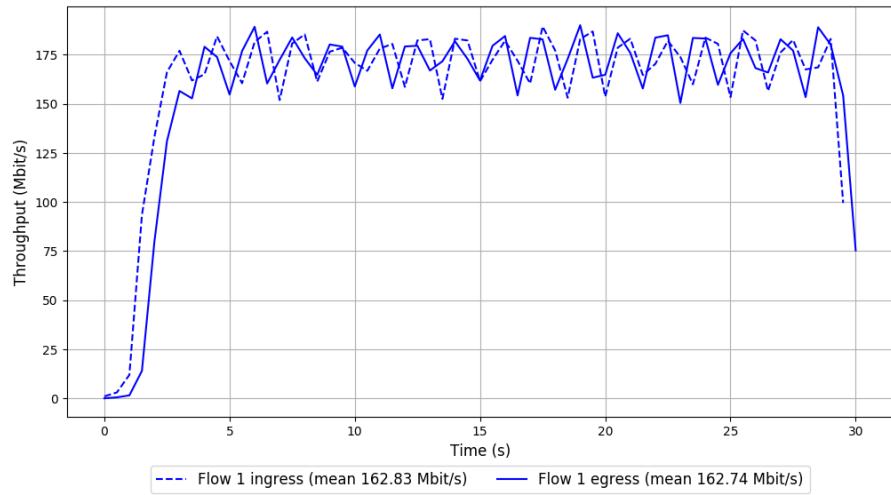


Run 4: Statistics of Indigo

```
Start at: 2019-10-02 19:44:44
End at: 2019-10-02 19:45:14
Local clock offset: 5.09 ms
Remote clock offset: 6.789 ms

# Below is generated by plot.py at 2019-10-02 21:27:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 162.74 Mbit/s
95th percentile per-packet one-way delay: 111.246 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 162.74 Mbit/s
95th percentile per-packet one-way delay: 111.246 ms
Loss rate: 0.77%
```

Run 4: Report of Indigo — Data Link

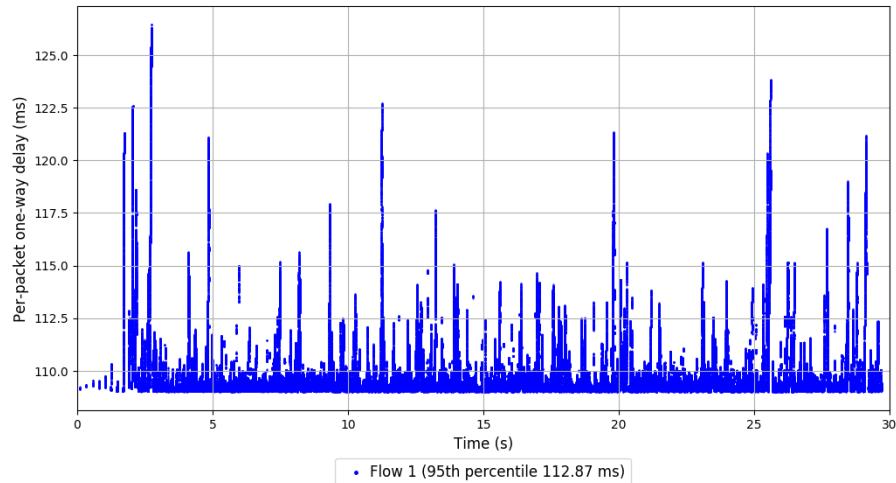
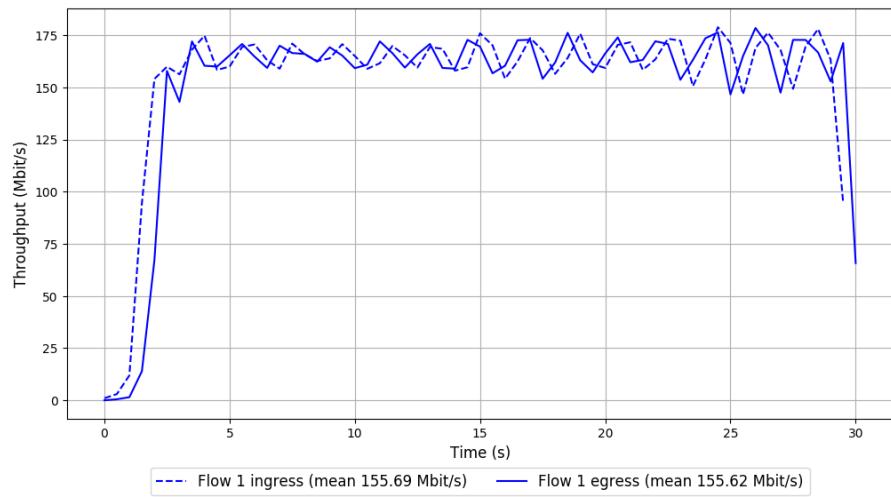


Run 5: Statistics of Indigo

```
Start at: 2019-10-02 20:20:18
End at: 2019-10-02 20:20:48
Local clock offset: 1.021 ms
Remote clock offset: 1.408 ms

# Below is generated by plot.py at 2019-10-02 21:27:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.62 Mbit/s
95th percentile per-packet one-way delay: 112.874 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 155.62 Mbit/s
95th percentile per-packet one-way delay: 112.874 ms
Loss rate: 0.77%
```

Run 5: Report of Indigo — Data Link

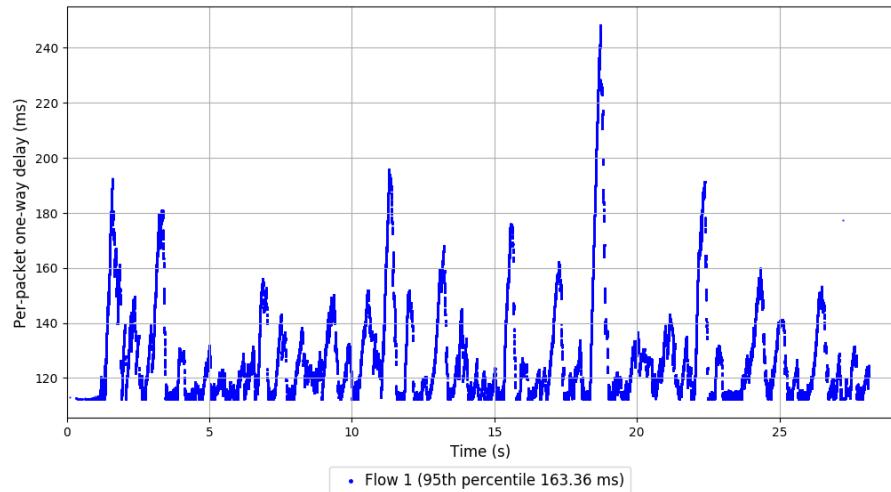
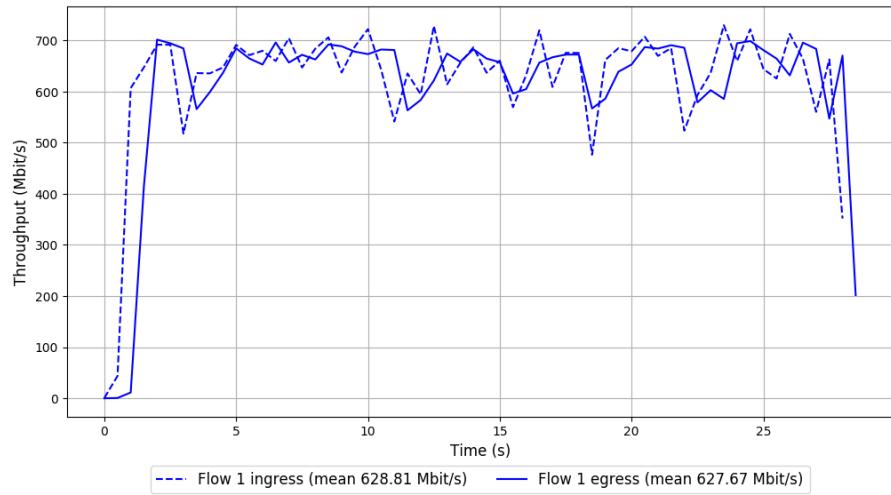


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-10-02 17:49:37
End at: 2019-10-02 17:50:07
Local clock offset: 11.478 ms
Remote clock offset: 15.905 ms

# Below is generated by plot.py at 2019-10-02 21:29:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 627.67 Mbit/s
95th percentile per-packet one-way delay: 163.363 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 627.67 Mbit/s
95th percentile per-packet one-way delay: 163.363 ms
Loss rate: 0.96%
```

Run 1: Report of Indigo-MusesC3 — Data Link

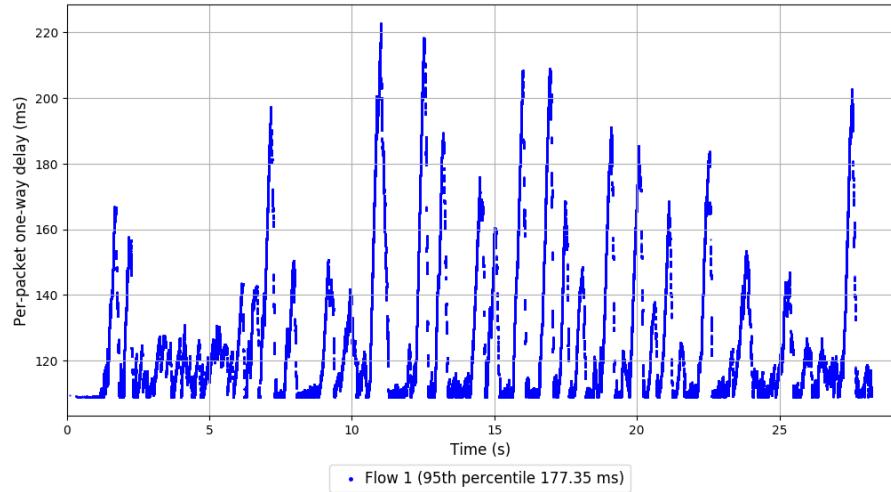
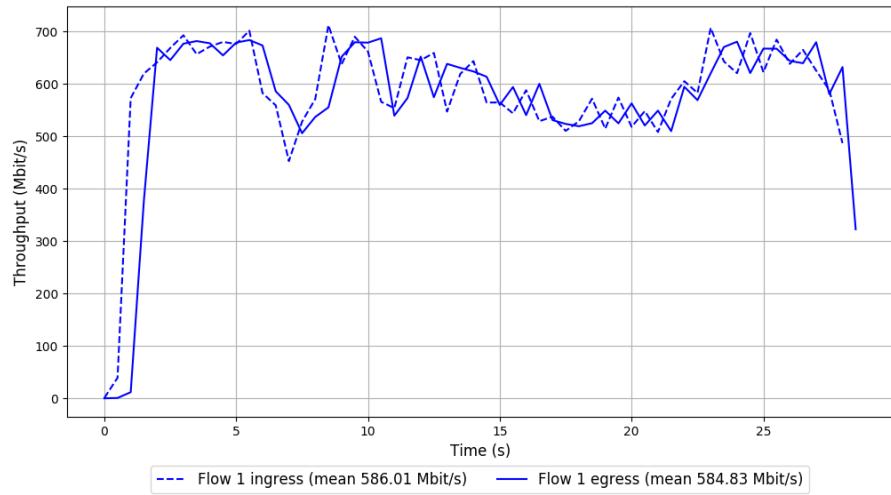


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-10-02 18:26:02
End at: 2019-10-02 18:26:32
Local clock offset: 24.435 ms
Remote clock offset: 34.266 ms

# Below is generated by plot.py at 2019-10-02 21:30:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 584.83 Mbit/s
95th percentile per-packet one-way delay: 177.355 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 584.83 Mbit/s
95th percentile per-packet one-way delay: 177.355 ms
Loss rate: 0.97%
```

Run 2: Report of Indigo-MusesC3 — Data Link

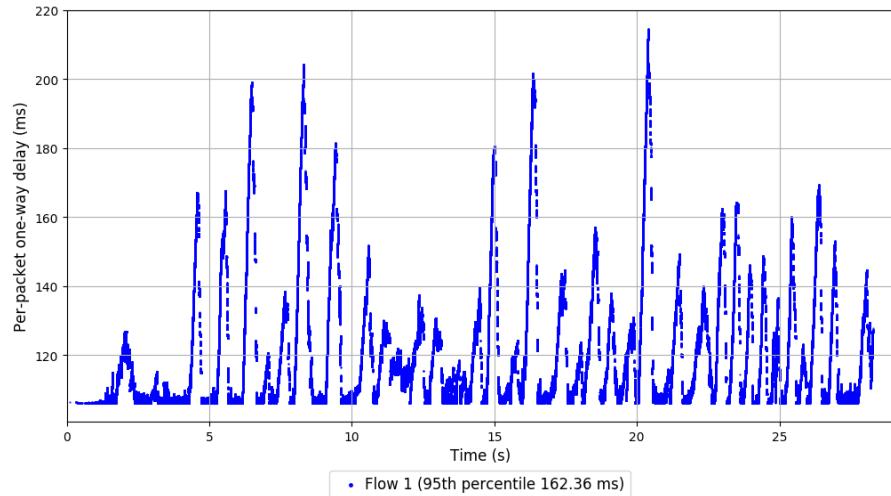
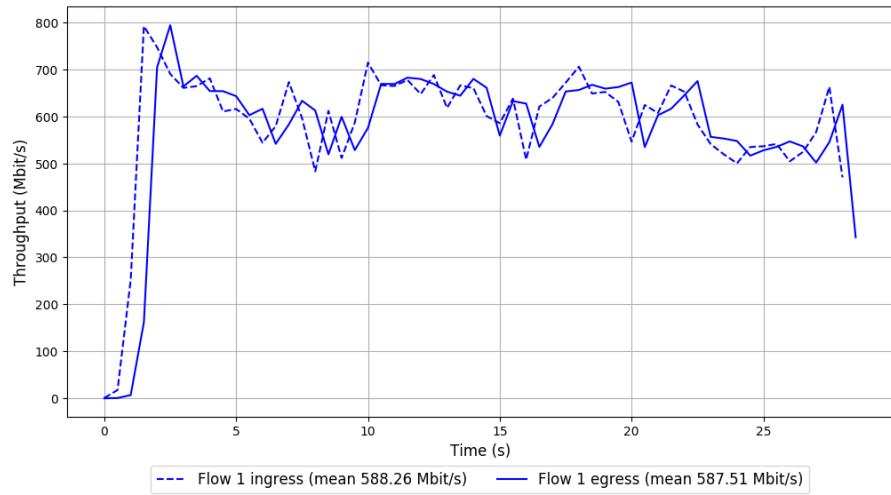


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-10-02 19:02:33
End at: 2019-10-02 19:03:03
Local clock offset: 13.154 ms
Remote clock offset: 18.993 ms

# Below is generated by plot.py at 2019-10-02 21:32:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 587.51 Mbit/s
95th percentile per-packet one-way delay: 162.358 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 587.51 Mbit/s
95th percentile per-packet one-way delay: 162.358 ms
Loss rate: 0.89%
```

Run 3: Report of Indigo-MusesC3 — Data Link

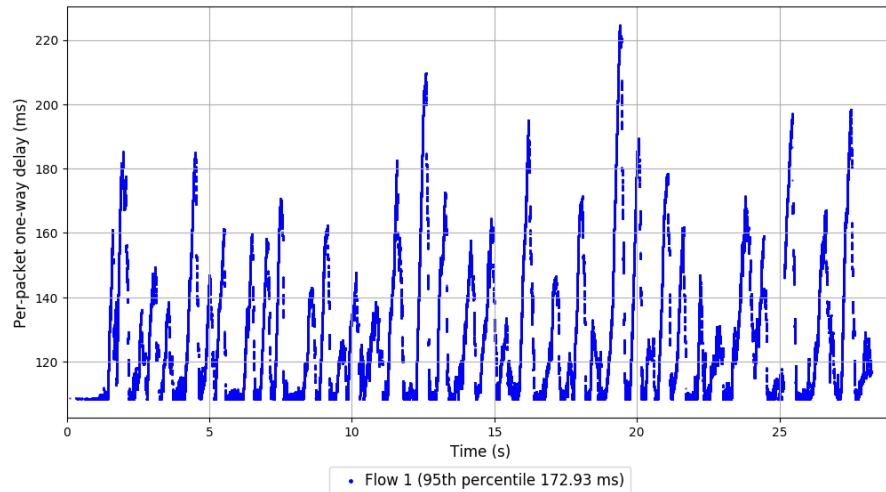
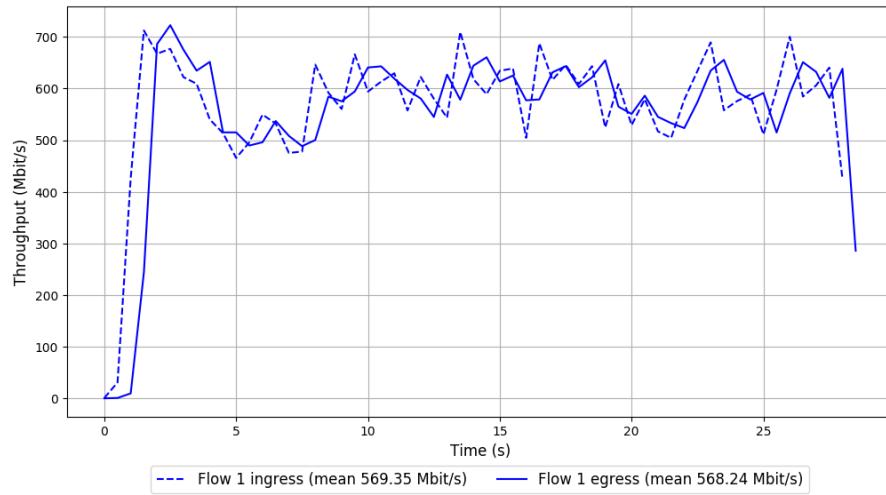


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-10-02 19:38:16
End at: 2019-10-02 19:38:46
Local clock offset: 6.833 ms
Remote clock offset: 9.514 ms

# Below is generated by plot.py at 2019-10-02 21:32:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 568.24 Mbit/s
95th percentile per-packet one-way delay: 172.929 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 568.24 Mbit/s
95th percentile per-packet one-way delay: 172.929 ms
Loss rate: 0.96%
```

Run 4: Report of Indigo-MusesC3 — Data Link

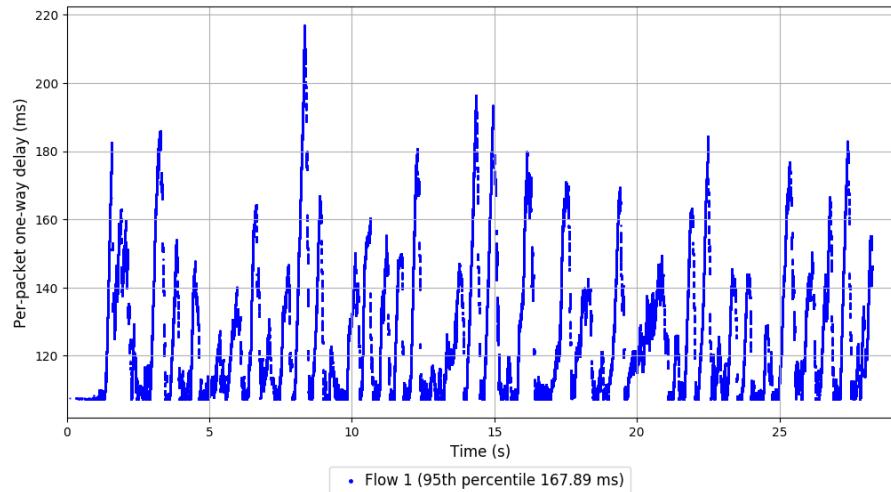
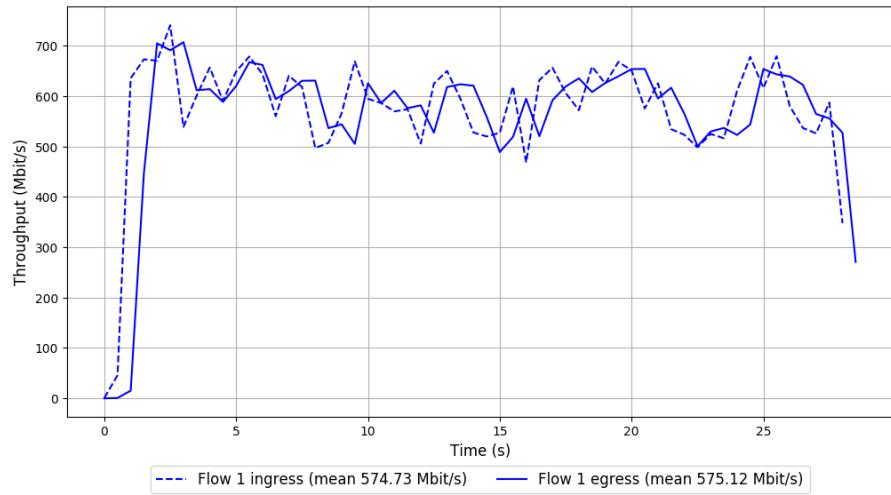


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-10-02 20:13:55
End at: 2019-10-02 20:14:25
Local clock offset: 1.556 ms
Remote clock offset: 1.91 ms

# Below is generated by plot.py at 2019-10-02 21:32:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 575.12 Mbit/s
95th percentile per-packet one-way delay: 167.894 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 575.12 Mbit/s
95th percentile per-packet one-way delay: 167.894 ms
Loss rate: 0.69%
```

Run 5: Report of Indigo-MusesC3 — Data Link

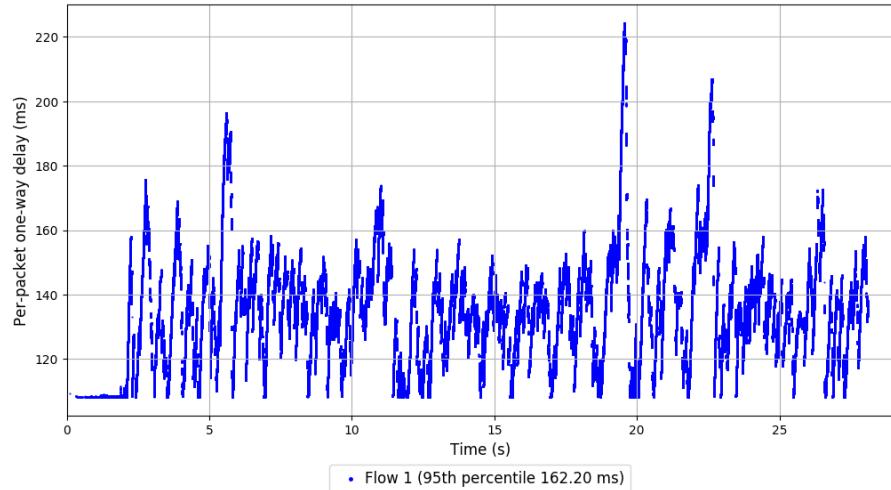
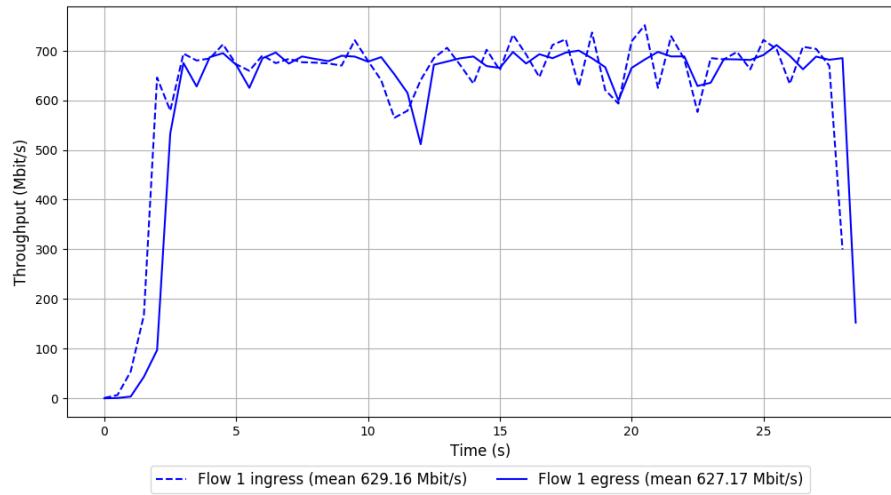


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-10-02 17:45:35
End at: 2019-10-02 17:46:05
Local clock offset: 9.007 ms
Remote clock offset: 13.809 ms

# Below is generated by plot.py at 2019-10-02 21:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 627.17 Mbit/s
95th percentile per-packet one-way delay: 162.202 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 627.17 Mbit/s
95th percentile per-packet one-way delay: 162.202 ms
Loss rate: 1.09%
```

Run 1: Report of Indigo-MusesC5 — Data Link

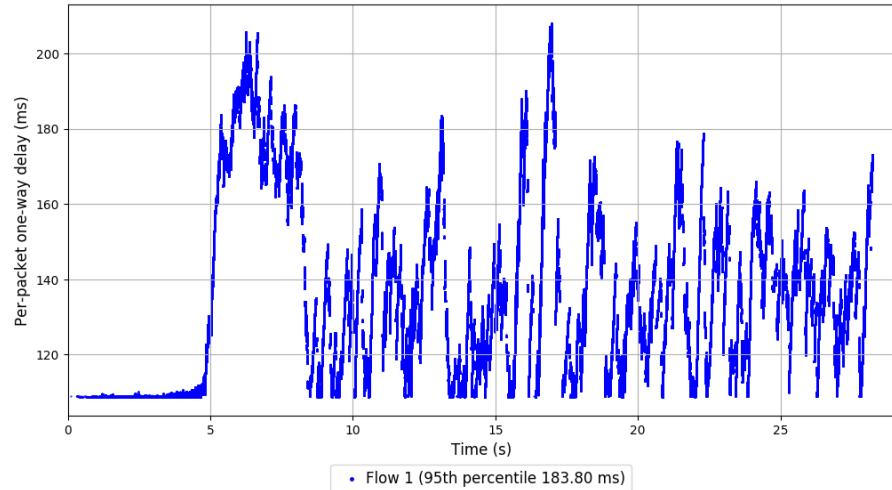
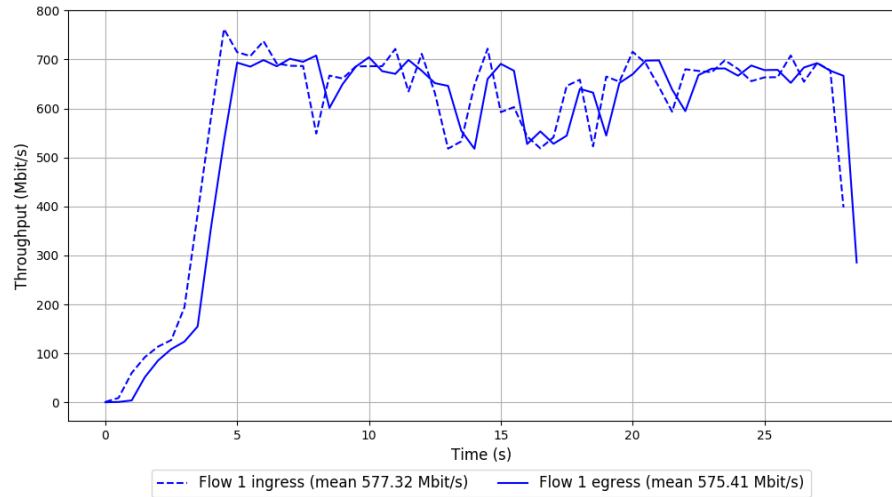


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-10-02 18:22:02
End at: 2019-10-02 18:22:32
Local clock offset: 21.336 ms
Remote clock offset: 30.187 ms

# Below is generated by plot.py at 2019-10-02 21:34:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 575.41 Mbit/s
95th percentile per-packet one-way delay: 183.797 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 575.41 Mbit/s
95th percentile per-packet one-way delay: 183.797 ms
Loss rate: 1.06%
```

Run 2: Report of Indigo-MusesC5 — Data Link

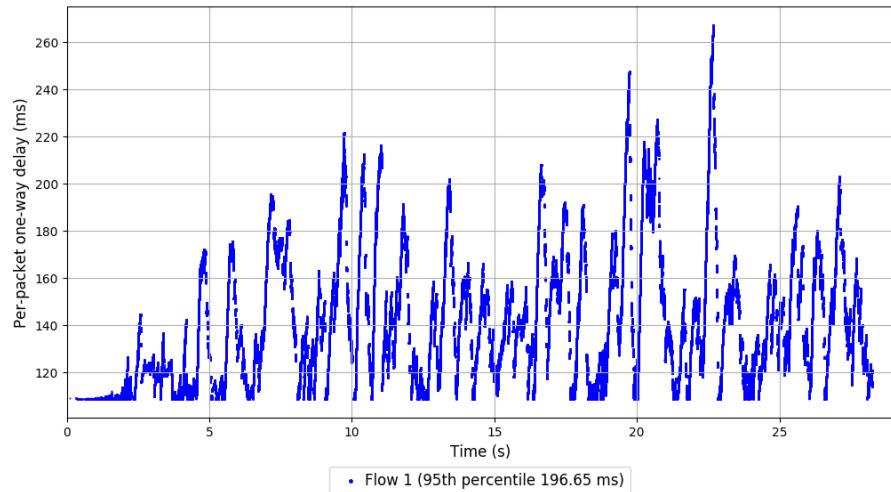
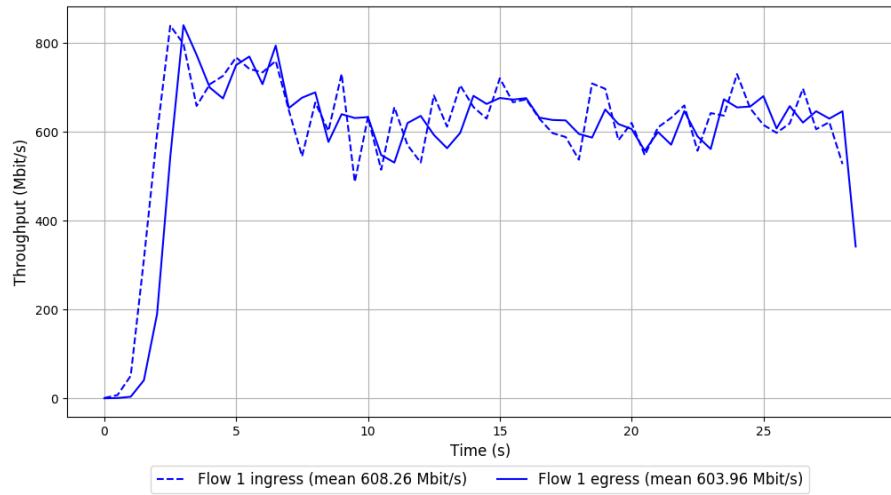


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-10-02 18:58:32
End at: 2019-10-02 18:59:02
Local clock offset: 12.455 ms
Remote clock offset: 17.815 ms

# Below is generated by plot.py at 2019-10-02 21:39:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 603.96 Mbit/s
95th percentile per-packet one-way delay: 196.649 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 603.96 Mbit/s
95th percentile per-packet one-way delay: 196.649 ms
Loss rate: 1.47%
```

Run 3: Report of Indigo-MusesC5 — Data Link

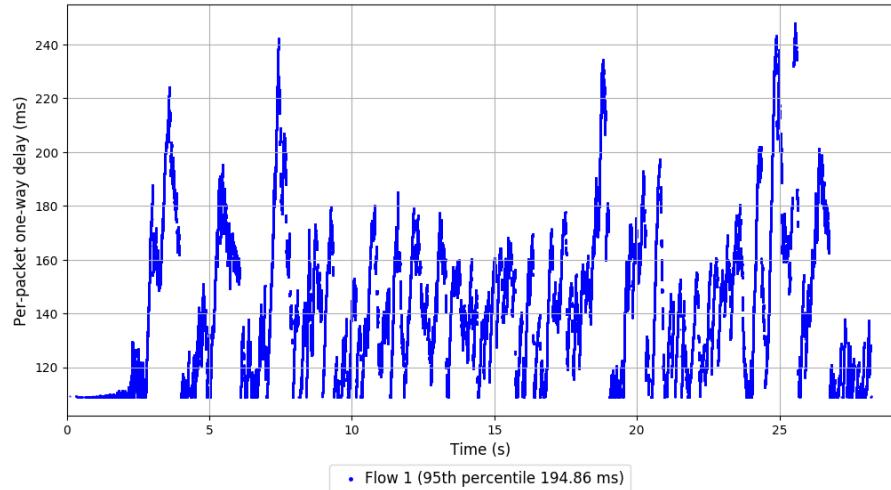
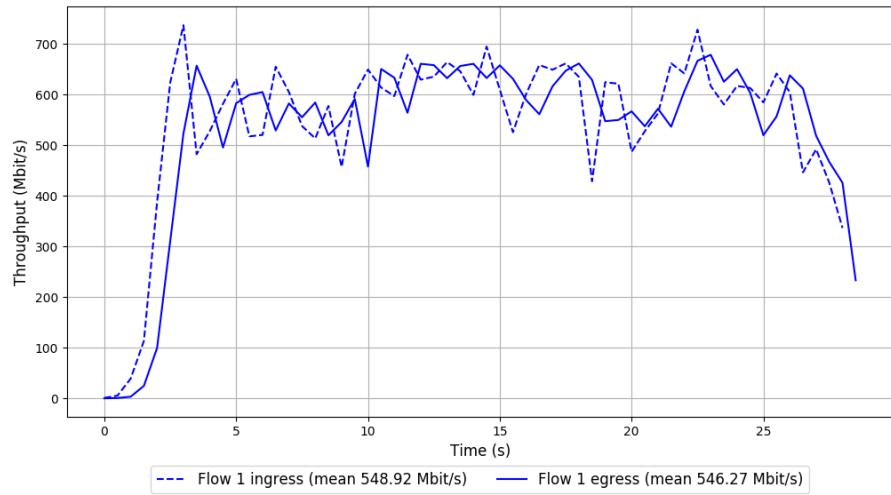


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-10-02 19:34:18
End at: 2019-10-02 19:34:48
Local clock offset: 6.146 ms
Remote clock offset: 8.753 ms

# Below is generated by plot.py at 2019-10-02 21:39:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 546.27 Mbit/s
95th percentile per-packet one-way delay: 194.858 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 546.27 Mbit/s
95th percentile per-packet one-way delay: 194.858 ms
Loss rate: 1.25%
```

Run 4: Report of Indigo-MusesC5 — Data Link

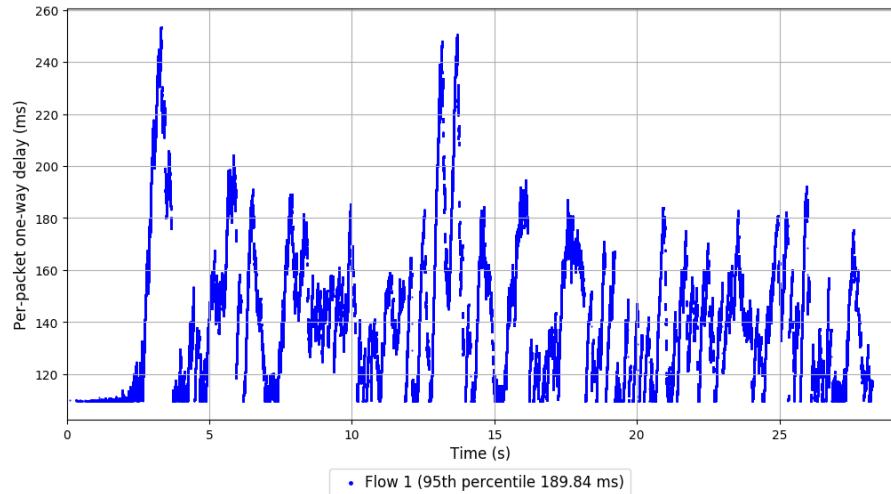
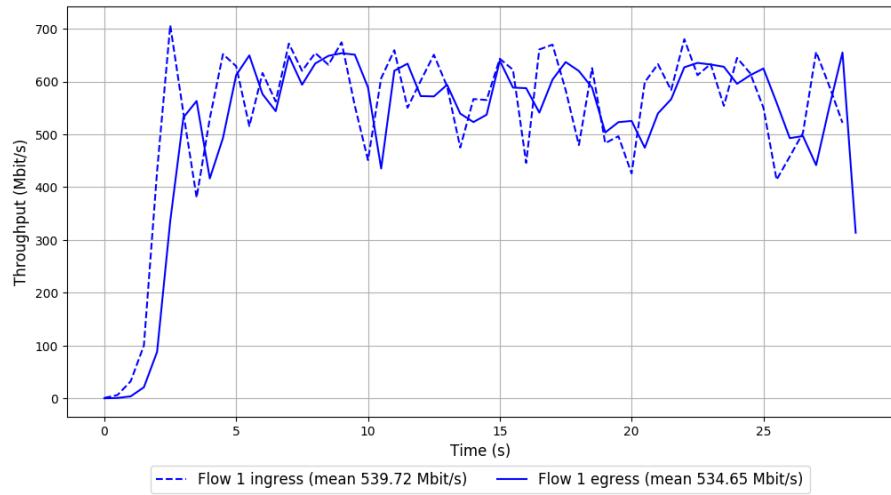


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-10-02 20:09:56
End at: 2019-10-02 20:10:26
Local clock offset: 1.311 ms
Remote clock offset: 2.165 ms

# Below is generated by plot.py at 2019-10-02 21:40:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.65 Mbit/s
95th percentile per-packet one-way delay: 189.838 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 534.65 Mbit/s
95th percentile per-packet one-way delay: 189.838 ms
Loss rate: 1.71%
```

Run 5: Report of Indigo-MusesC5 — Data Link

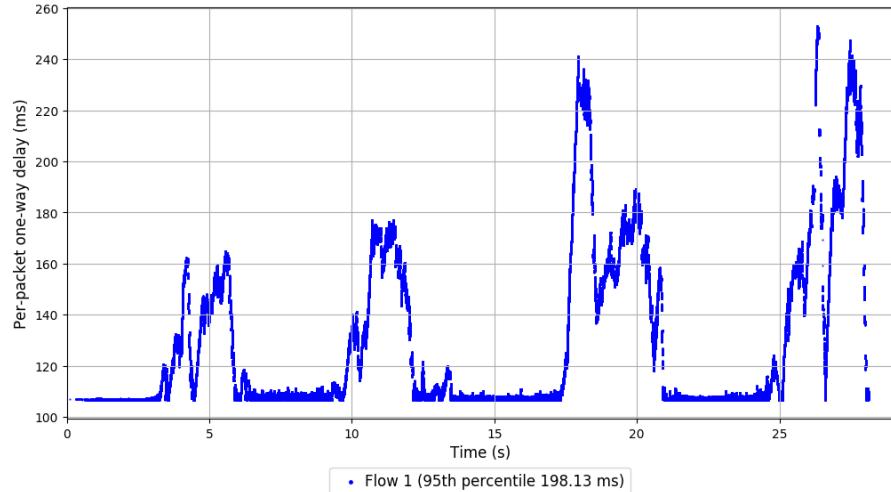
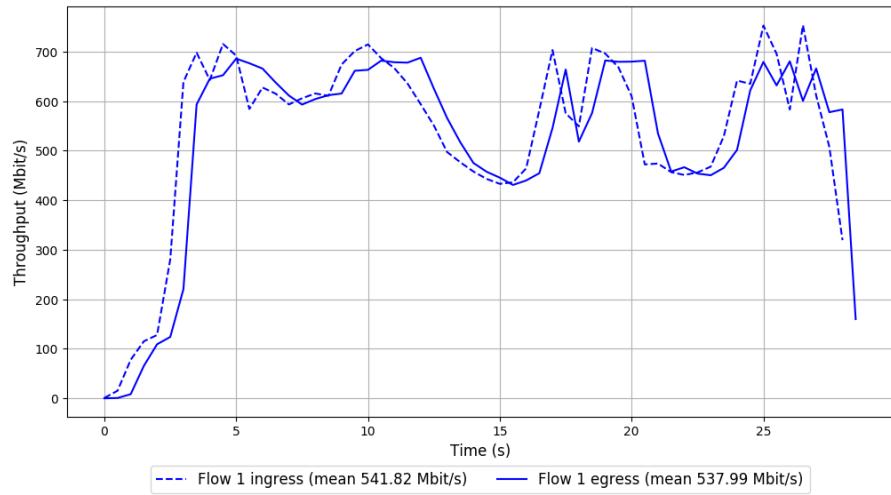


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-10-02 18:00:28
End at: 2019-10-02 18:00:58
Local clock offset: 17.669 ms
Remote clock offset: 24.476 ms

# Below is generated by plot.py at 2019-10-02 21:42:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 537.99 Mbit/s
95th percentile per-packet one-way delay: 198.132 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 537.99 Mbit/s
95th percentile per-packet one-way delay: 198.132 ms
Loss rate: 1.46%
```

Run 1: Report of Indigo-MusesD — Data Link

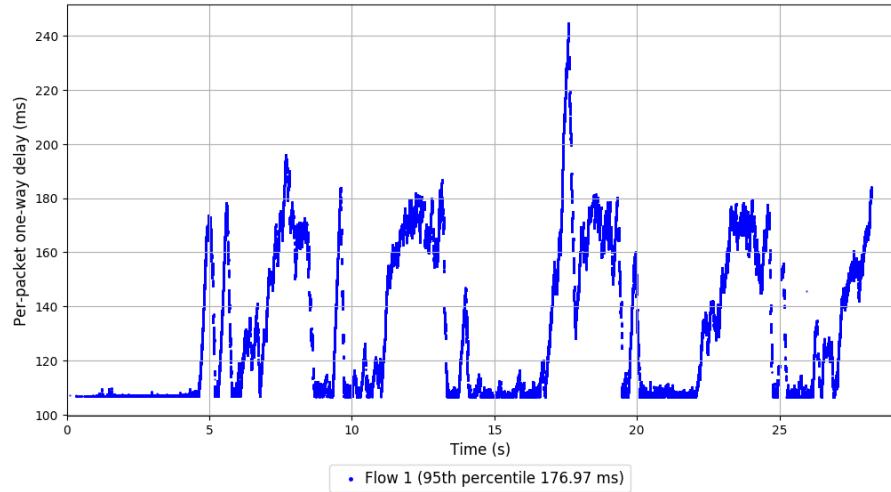
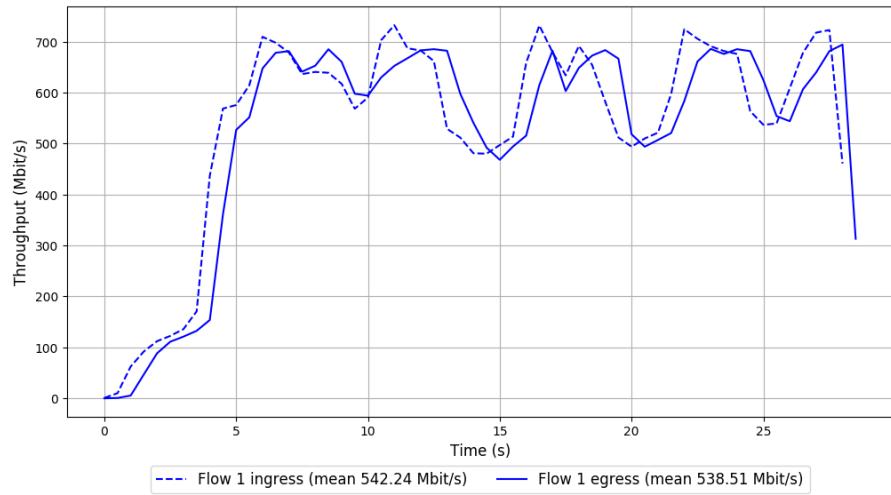


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-10-02 18:36:58
End at: 2019-10-02 18:37:28
Local clock offset: 20.482 ms
Remote clock offset: 27.857 ms

# Below is generated by plot.py at 2019-10-02 21:42:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.51 Mbit/s
95th percentile per-packet one-way delay: 176.966 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 538.51 Mbit/s
95th percentile per-packet one-way delay: 176.966 ms
Loss rate: 1.45%
```

Run 2: Report of Indigo-MusesD — Data Link

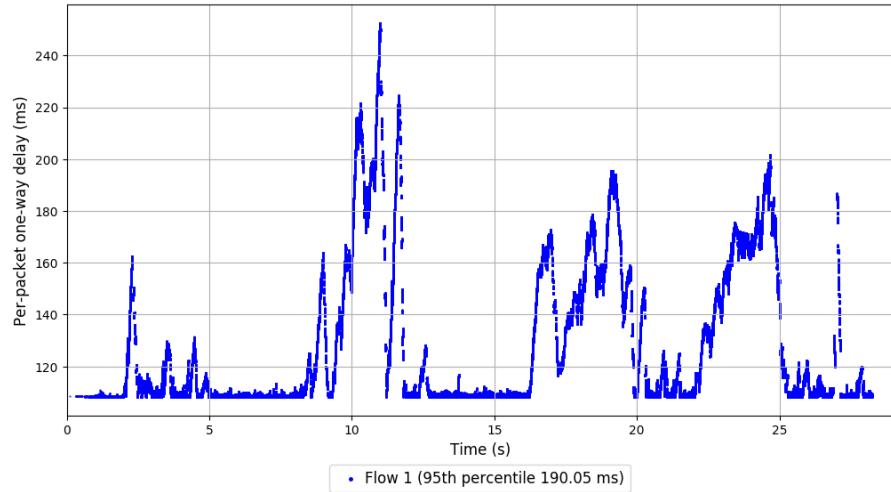
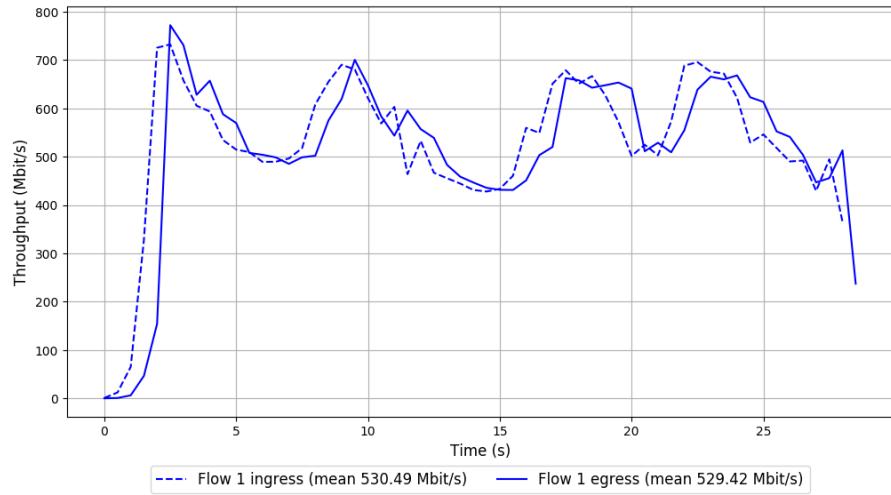


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-10-02 19:13:24
End at: 2019-10-02 19:13:54
Local clock offset: 8.456 ms
Remote clock offset: 11.593 ms

# Below is generated by plot.py at 2019-10-02 21:42:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 529.42 Mbit/s
95th percentile per-packet one-way delay: 190.050 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 529.42 Mbit/s
95th percentile per-packet one-way delay: 190.050 ms
Loss rate: 0.97%
```

Run 3: Report of Indigo-MusesD — Data Link

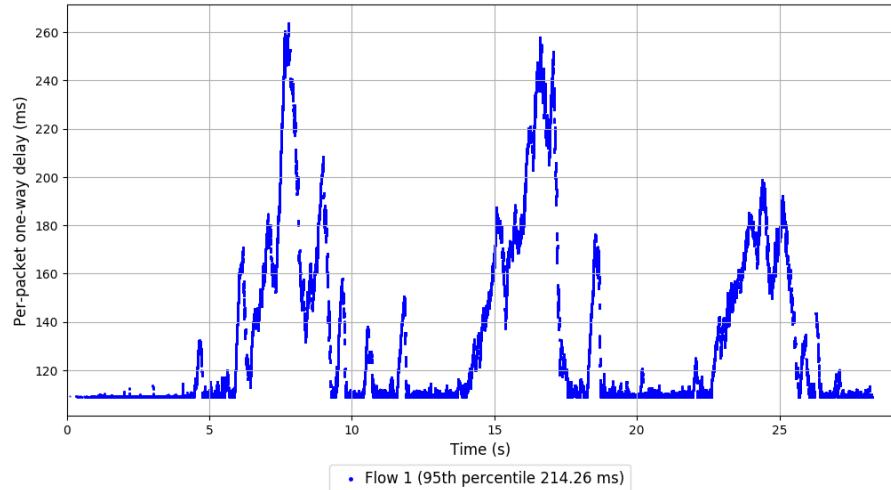
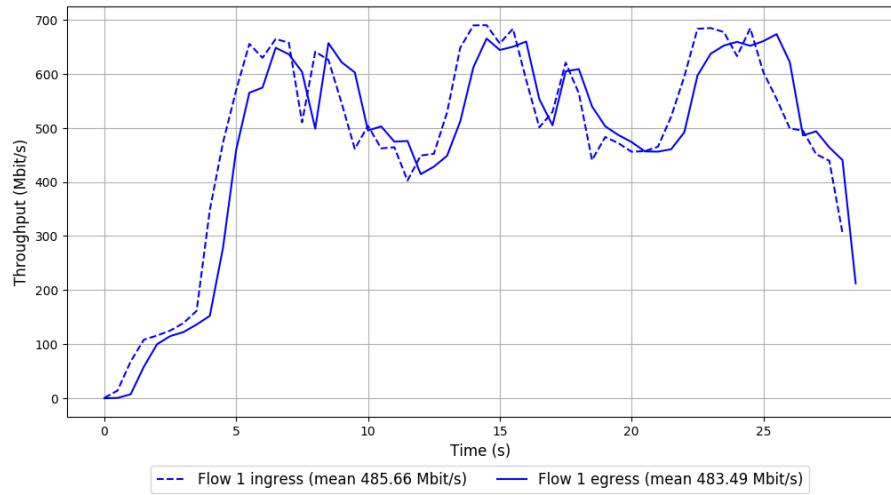


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-10-02 19:49:06
End at: 2019-10-02 19:49:36
Local clock offset: 3.214 ms
Remote clock offset: 4.403 ms

# Below is generated by plot.py at 2019-10-02 21:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 483.49 Mbit/s
95th percentile per-packet one-way delay: 214.263 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 483.49 Mbit/s
95th percentile per-packet one-way delay: 214.263 ms
Loss rate: 1.23%
```

Run 4: Report of Indigo-MusesD — Data Link

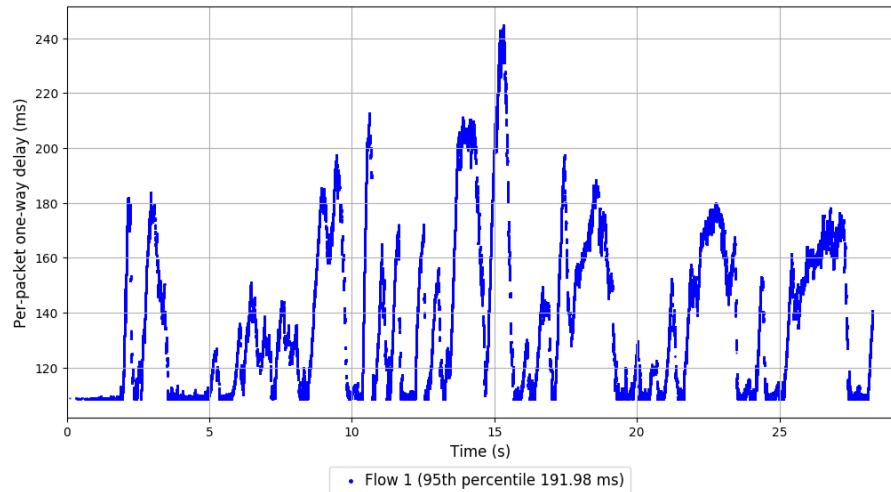
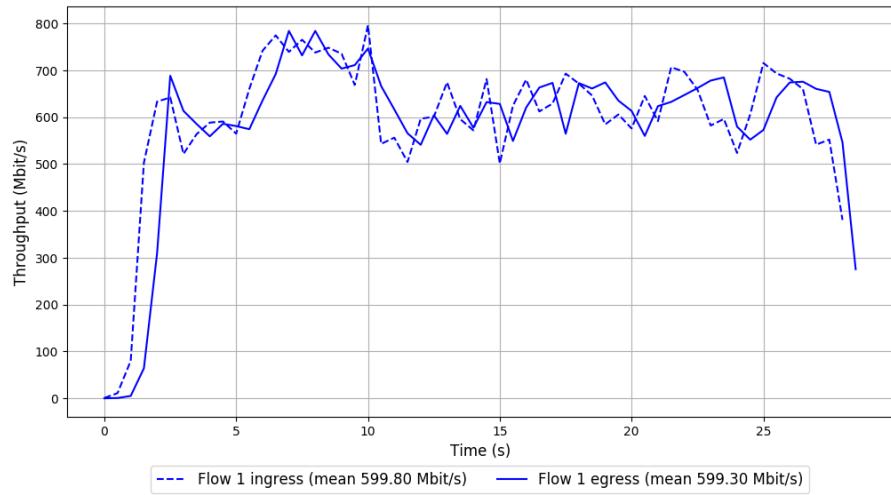


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-10-02 20:24:44
End at: 2019-10-02 20:25:14
Local clock offset: 0.699 ms
Remote clock offset: 1.382 ms

# Below is generated by plot.py at 2019-10-02 21:46:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 599.30 Mbit/s
95th percentile per-packet one-way delay: 191.976 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 599.30 Mbit/s
95th percentile per-packet one-way delay: 191.976 ms
Loss rate: 0.85%
```

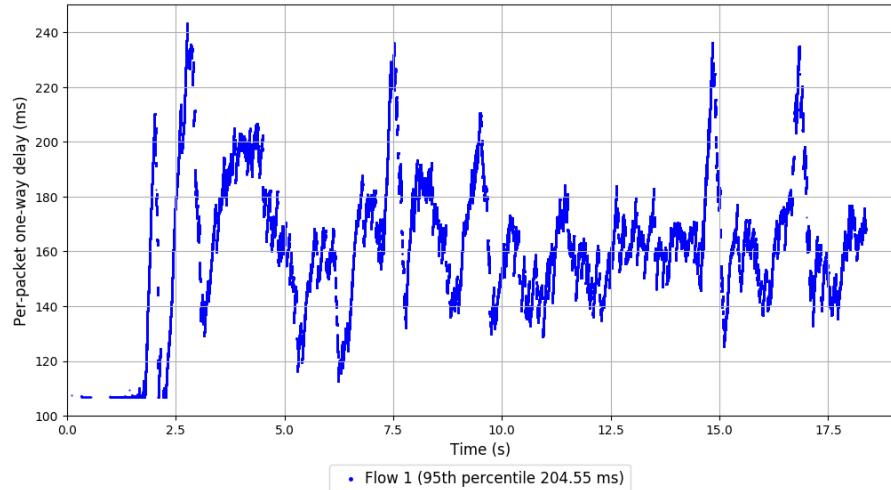
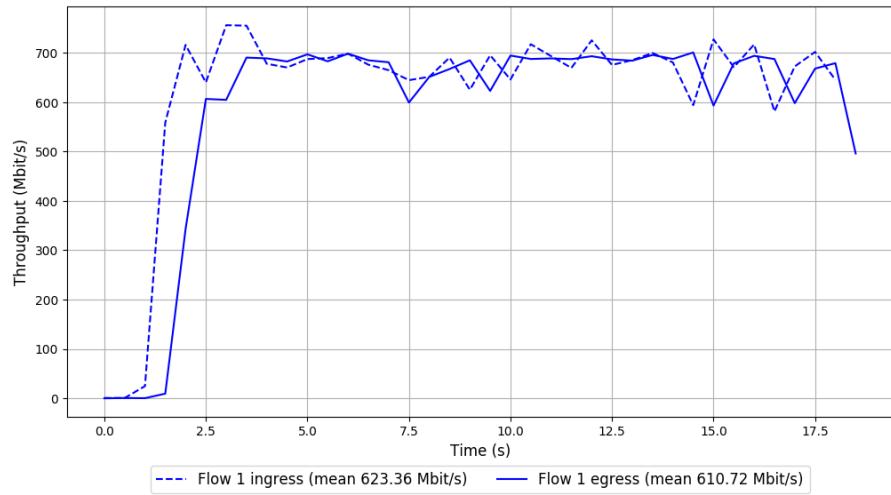
Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-02 17:38:17
End at: 2019-10-02 17:38:47
Local clock offset: 8.946 ms
Remote clock offset: 12.802 ms

Run 1: Report of Indigo-MusesT — Data Link

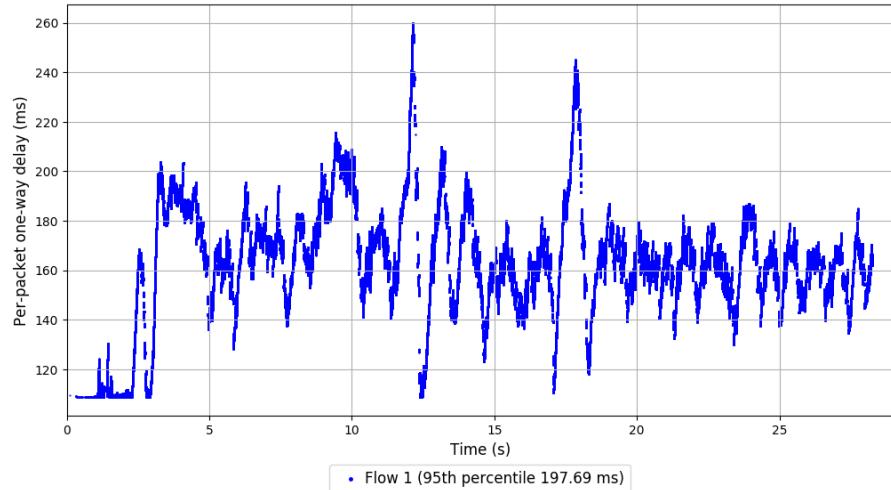
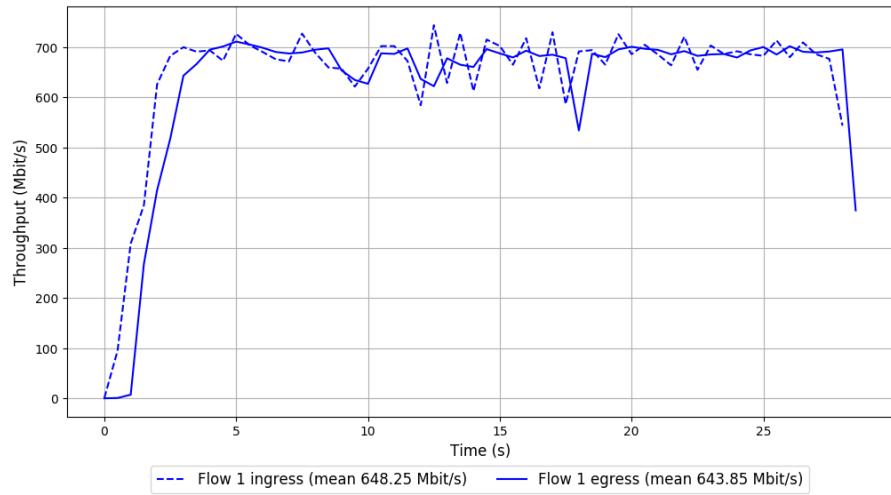


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-10-02 18:14:31
End at: 2019-10-02 18:15:01
Local clock offset: 16.67 ms
Remote clock offset: 23.635 ms

# Below is generated by plot.py at 2019-10-02 21:51:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 643.85 Mbit/s
95th percentile per-packet one-way delay: 197.695 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 643.85 Mbit/s
95th percentile per-packet one-way delay: 197.695 ms
Loss rate: 1.44%
```

Run 2: Report of Indigo-MusesT — Data Link

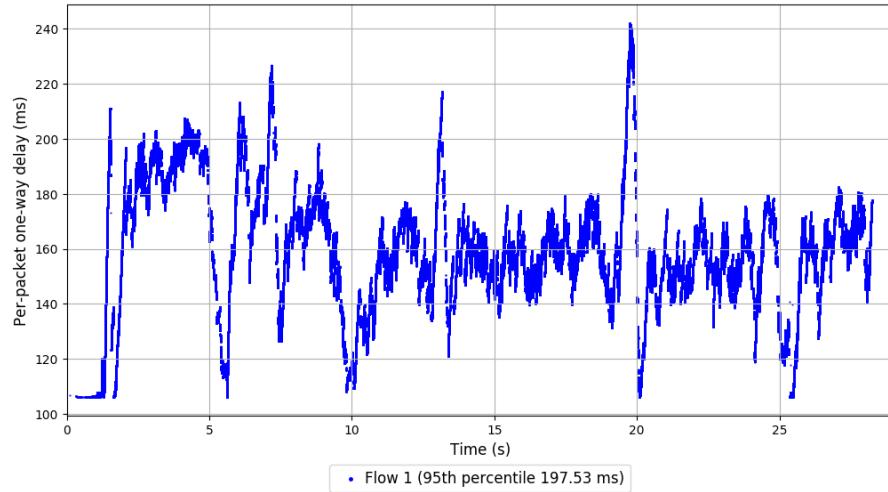
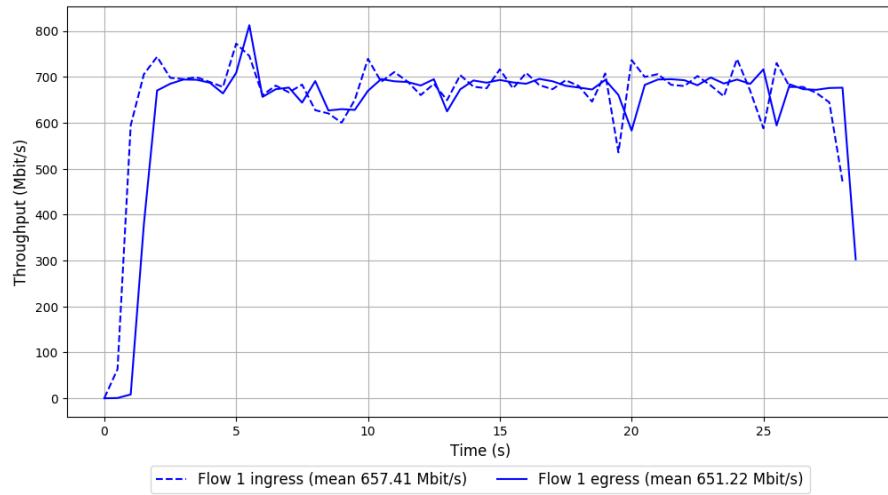


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-10-02 18:50:54
End at: 2019-10-02 18:51:24
Local clock offset: 11.381 ms
Remote clock offset: 15.747 ms

# Below is generated by plot.py at 2019-10-02 21:52:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 651.22 Mbit/s
95th percentile per-packet one-way delay: 197.530 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 651.22 Mbit/s
95th percentile per-packet one-way delay: 197.530 ms
Loss rate: 1.70%
```

Run 3: Report of Indigo-MusesT — Data Link

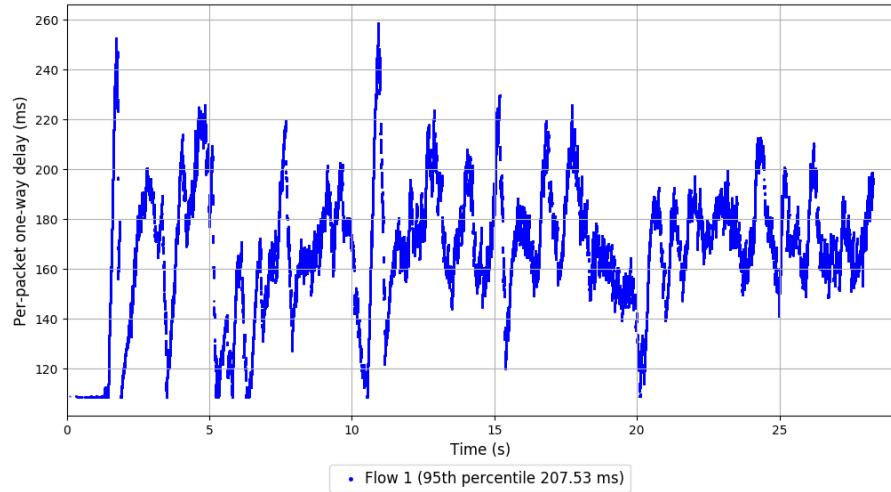
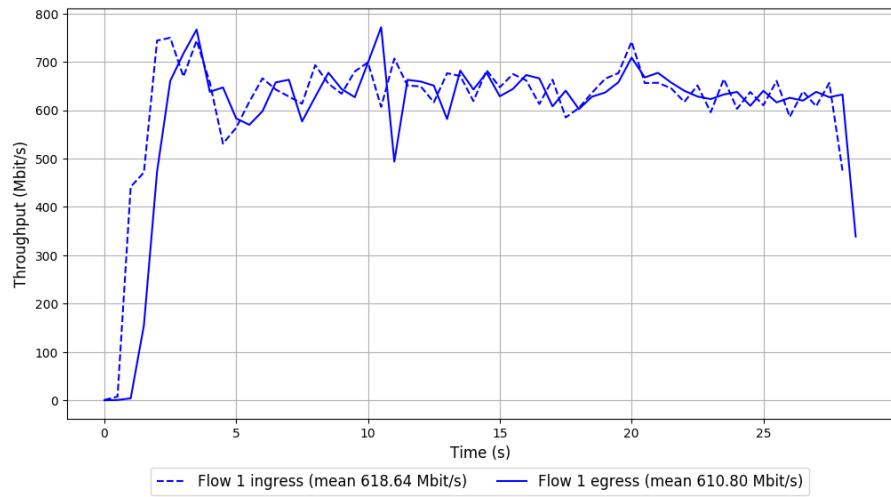


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-10-02 19:26:56
End at: 2019-10-02 19:27:26
Local clock offset: 5.482 ms
Remote clock offset: 7.432 ms

# Below is generated by plot.py at 2019-10-02 21:53:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 610.80 Mbit/s
95th percentile per-packet one-way delay: 207.533 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 610.80 Mbit/s
95th percentile per-packet one-way delay: 207.533 ms
Loss rate: 2.02%
```

Run 4: Report of Indigo-MusesT — Data Link

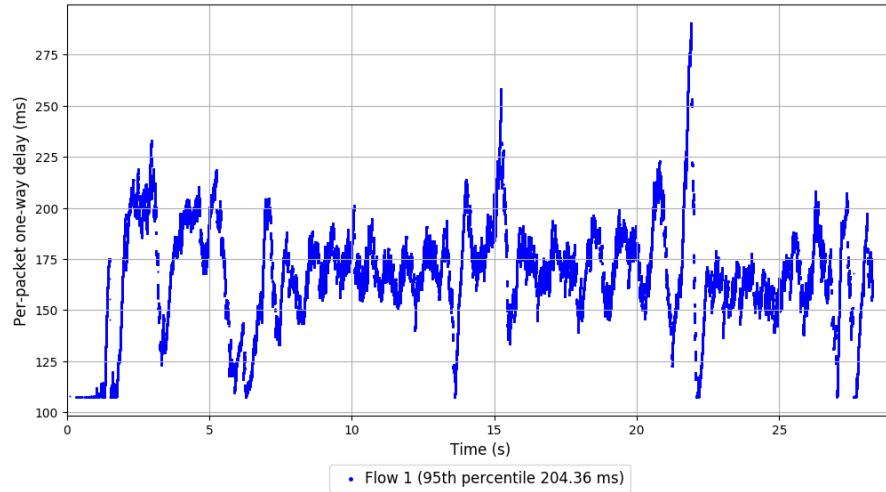
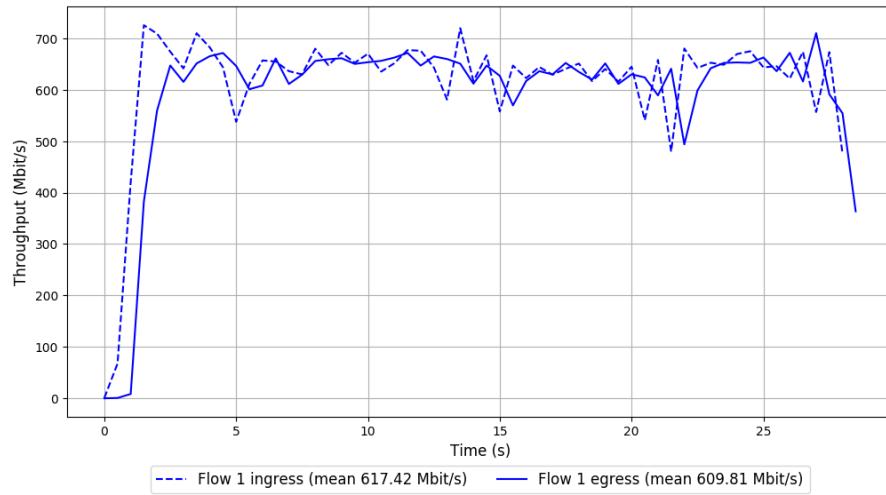


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-10-02 20:02:32
End at: 2019-10-02 20:03:02
Local clock offset: 0.717 ms
Remote clock offset: 2.192 ms

# Below is generated by plot.py at 2019-10-02 21:53:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 609.81 Mbit/s
95th percentile per-packet one-way delay: 204.360 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 609.81 Mbit/s
95th percentile per-packet one-way delay: 204.360 ms
Loss rate: 1.99%
```

Run 5: Report of Indigo-MusesT — Data Link

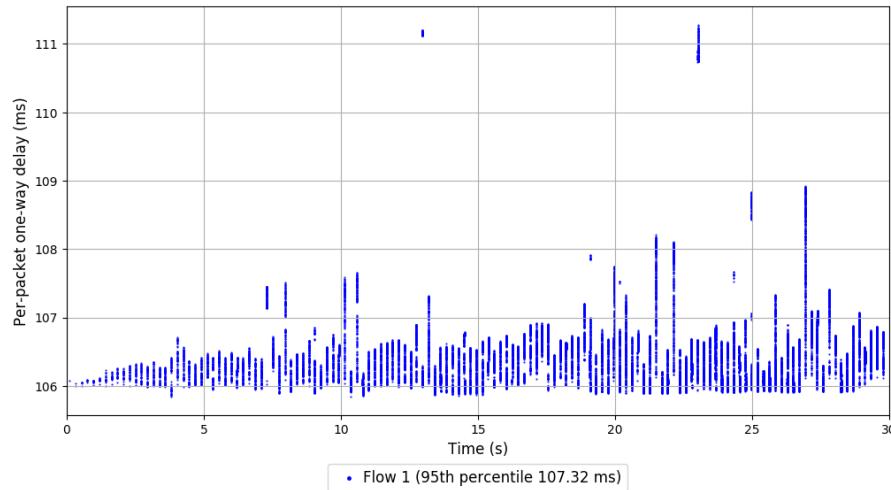
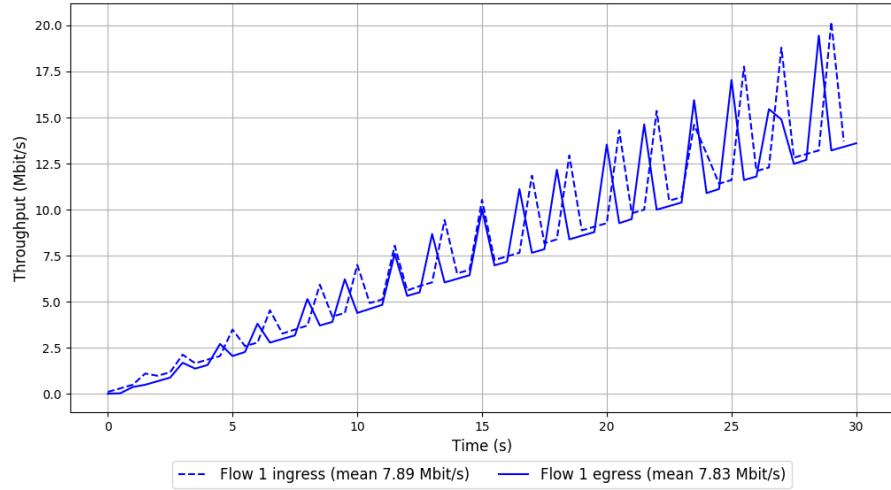


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-10-02 17:48:26
End at: 2019-10-02 17:48:56
Local clock offset: 10.424 ms
Remote clock offset: 14.875 ms

# Below is generated by plot.py at 2019-10-02 21:53:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 107.323 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 107.323 ms
Loss rate: 1.46%
```

Run 1: Report of LEDBAT — Data Link

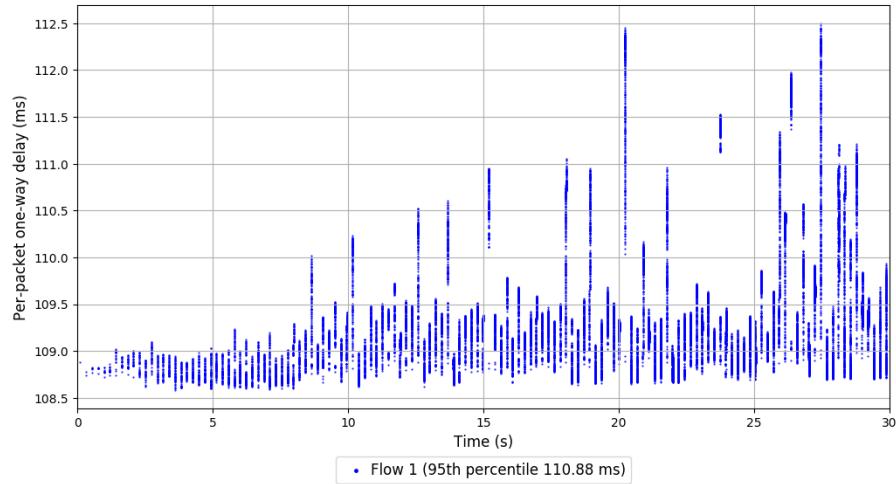
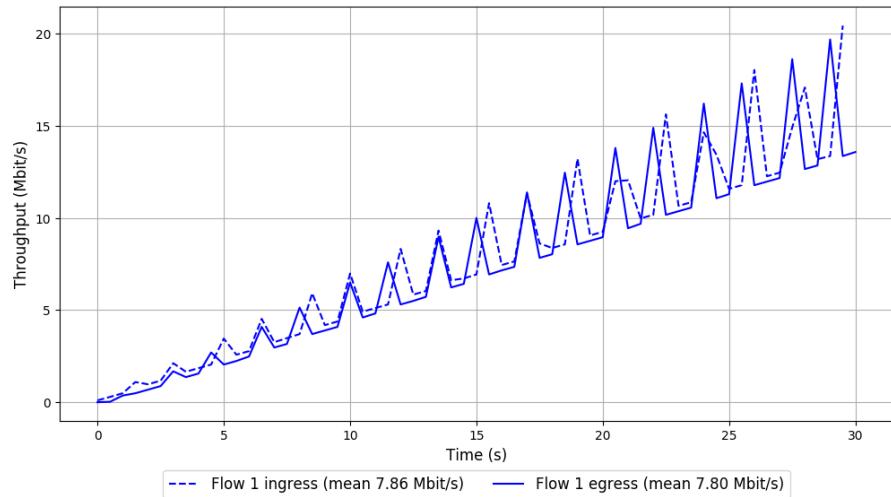


Run 2: Statistics of LEDBAT

```
Start at: 2019-10-02 18:24:51
End at: 2019-10-02 18:25:21
Local clock offset: 23.646 ms
Remote clock offset: 33.428 ms

# Below is generated by plot.py at 2019-10-02 21:53:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 110.880 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 110.880 ms
Loss rate: 1.46%
```

Run 2: Report of LEDBAT — Data Link

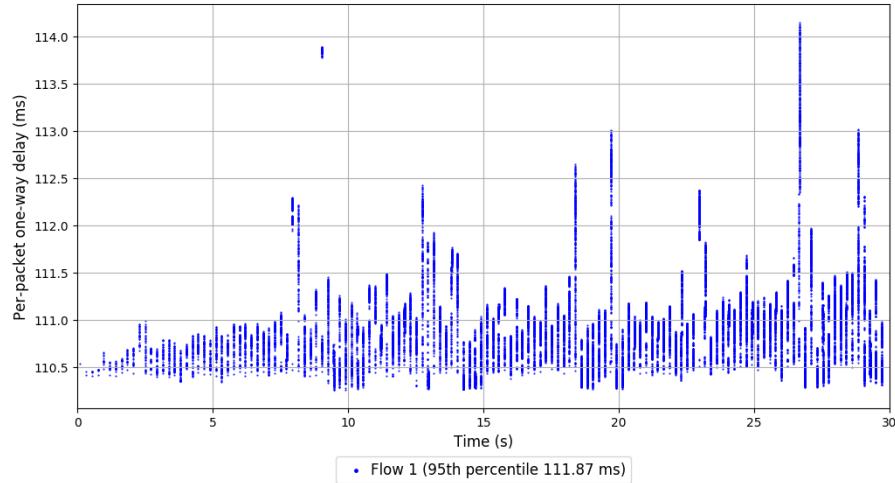
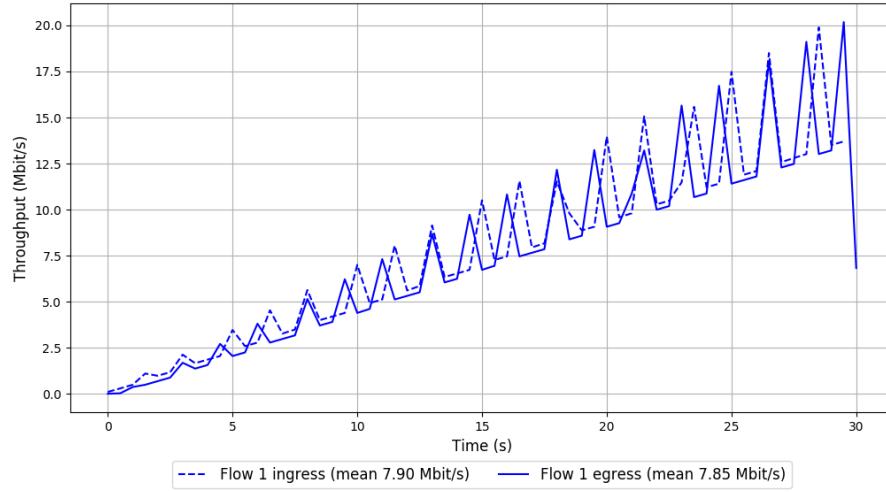


Run 3: Statistics of LEDBAT

```
Start at: 2019-10-02 19:01:21
End at: 2019-10-02 19:01:51
Local clock offset: 13.456 ms
Remote clock offset: 18.48 ms

# Below is generated by plot.py at 2019-10-02 21:53:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 111.874 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 111.874 ms
Loss rate: 1.46%
```

Run 3: Report of LEDBAT — Data Link

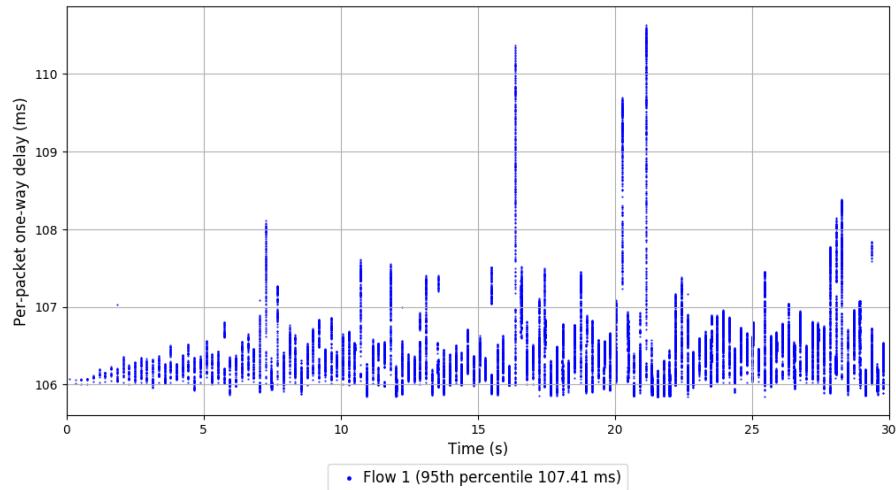
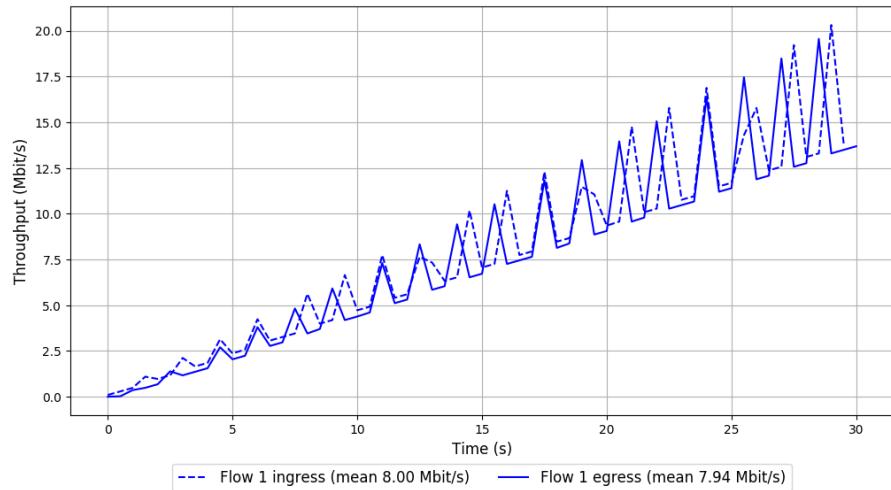


Run 4: Statistics of LEDBAT

```
Start at: 2019-10-02 19:37:05
End at: 2019-10-02 19:37:35
Local clock offset: 6.442 ms
Remote clock offset: 9.274 ms

# Below is generated by plot.py at 2019-10-02 21:53:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 107.405 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 107.405 ms
Loss rate: 1.45%
```

Run 4: Report of LEDBAT — Data Link

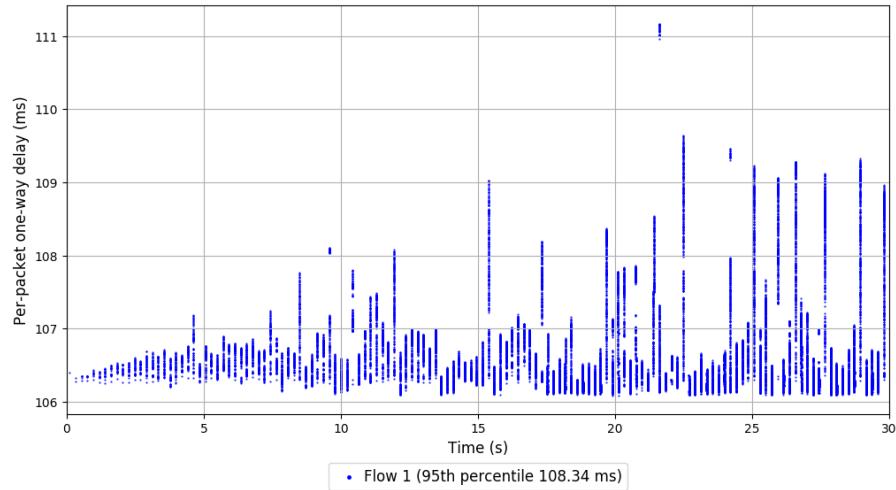
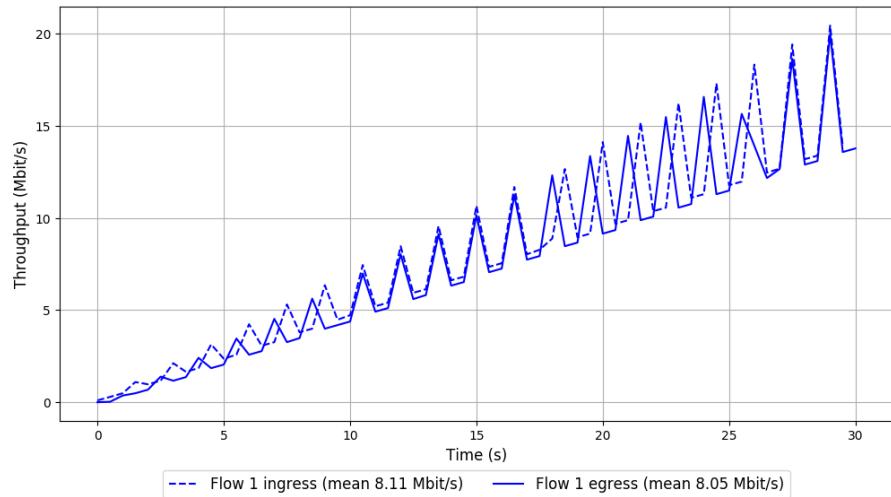


Run 5: Statistics of LEDBAT

```
Start at: 2019-10-02 20:12:43
End at: 2019-10-02 20:13:13
Local clock offset: 1.656 ms
Remote clock offset: 2.241 ms

# Below is generated by plot.py at 2019-10-02 21:53:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.05 Mbit/s
95th percentile per-packet one-way delay: 108.345 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 8.05 Mbit/s
95th percentile per-packet one-way delay: 108.345 ms
Loss rate: 1.43%
```

Run 5: Report of LEDBAT — Data Link

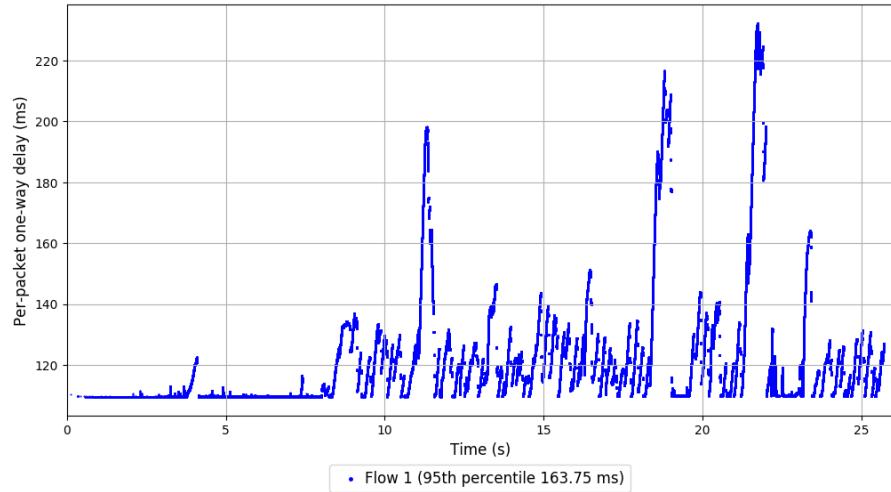
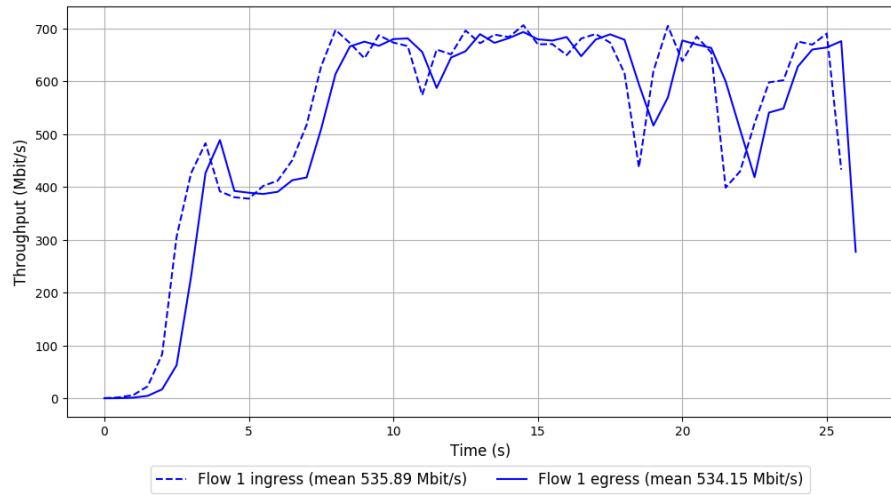


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-10-02 17:27:28
End at: 2019-10-02 17:27:58
Local clock offset: 3.006 ms
Remote clock offset: 4.975 ms

# Below is generated by plot.py at 2019-10-02 21:53:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.15 Mbit/s
95th percentile per-packet one-way delay: 163.747 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 534.15 Mbit/s
95th percentile per-packet one-way delay: 163.747 ms
Loss rate: 1.17%
```

Run 1: Report of Muses_DecisionTree — Data Link

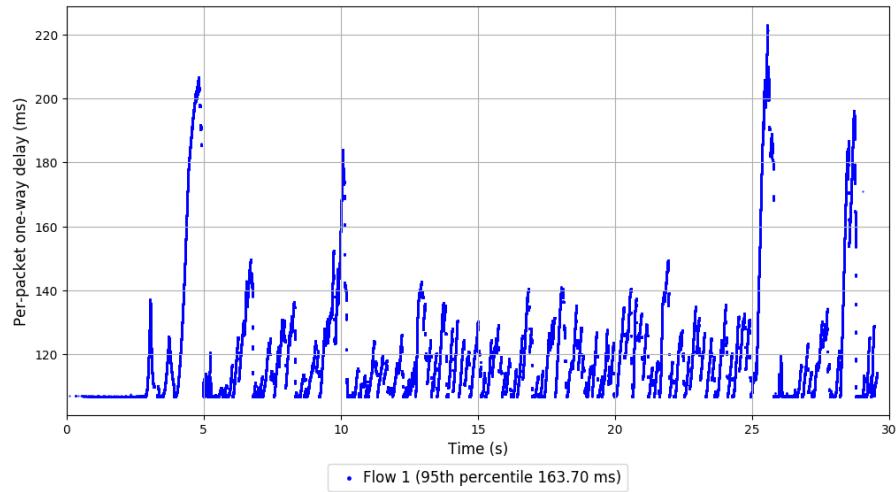
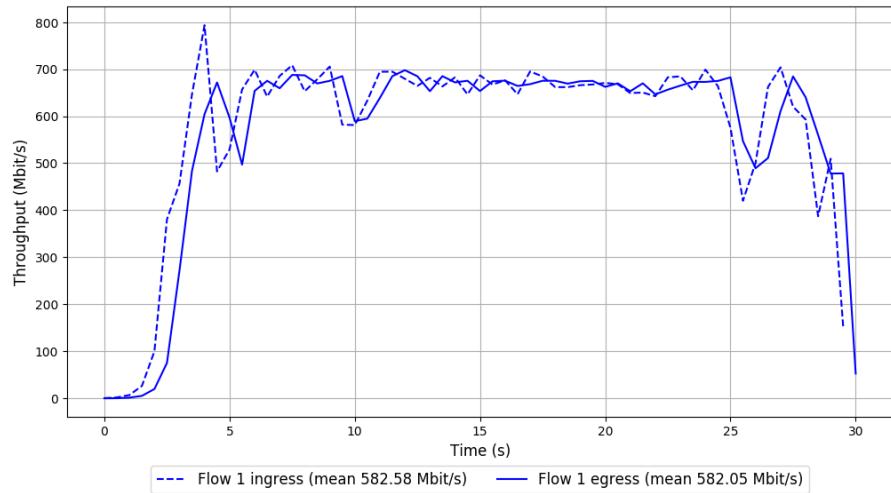


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-10-02 18:03:30
End at: 2019-10-02 18:04:00
Local clock offset: 15.564 ms
Remote clock offset: 21.551 ms

# Below is generated by plot.py at 2019-10-02 21:55:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 582.05 Mbit/s
95th percentile per-packet one-way delay: 163.700 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 582.05 Mbit/s
95th percentile per-packet one-way delay: 163.700 ms
Loss rate: 0.81%
```

Run 2: Report of Muses_DecisionTree — Data Link

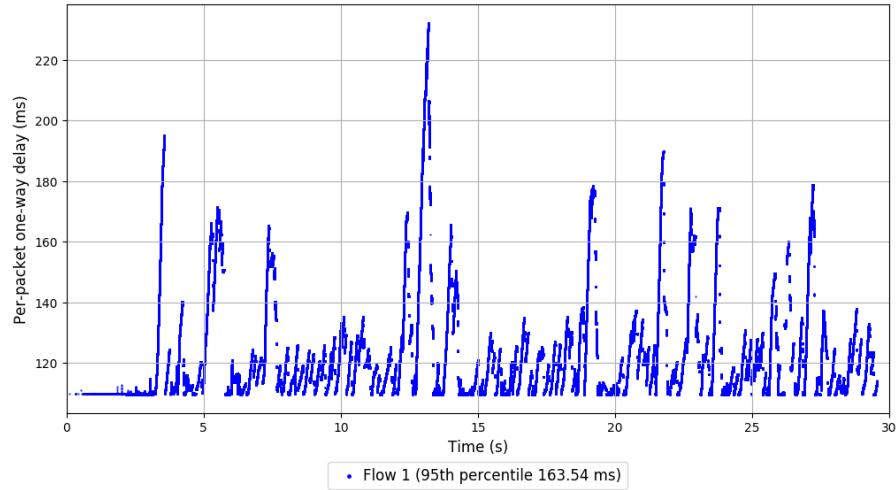
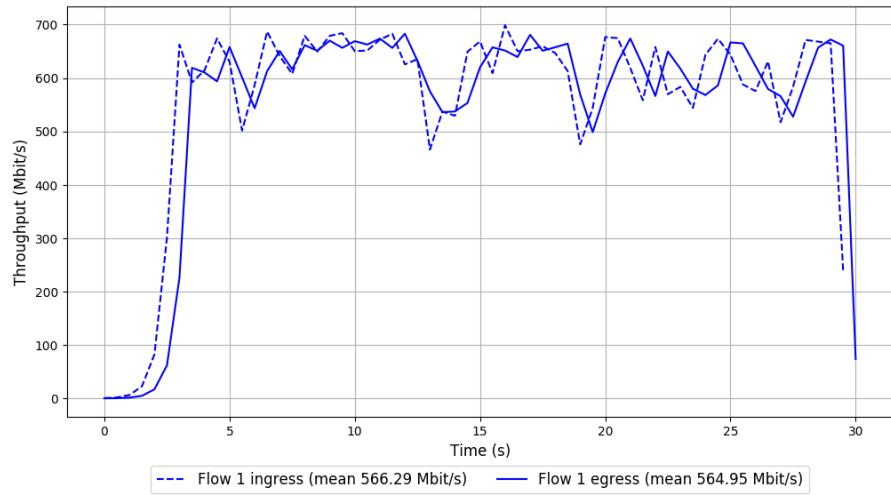


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-10-02 18:39:53
End at: 2019-10-02 18:40:23
Local clock offset: 16.176 ms
Remote clock offset: 22.217 ms

# Below is generated by plot.py at 2019-10-02 21:57:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 564.95 Mbit/s
95th percentile per-packet one-way delay: 163.536 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 564.95 Mbit/s
95th percentile per-packet one-way delay: 163.536 ms
Loss rate: 0.97%
```

Run 3: Report of Muses_DecisionTree — Data Link

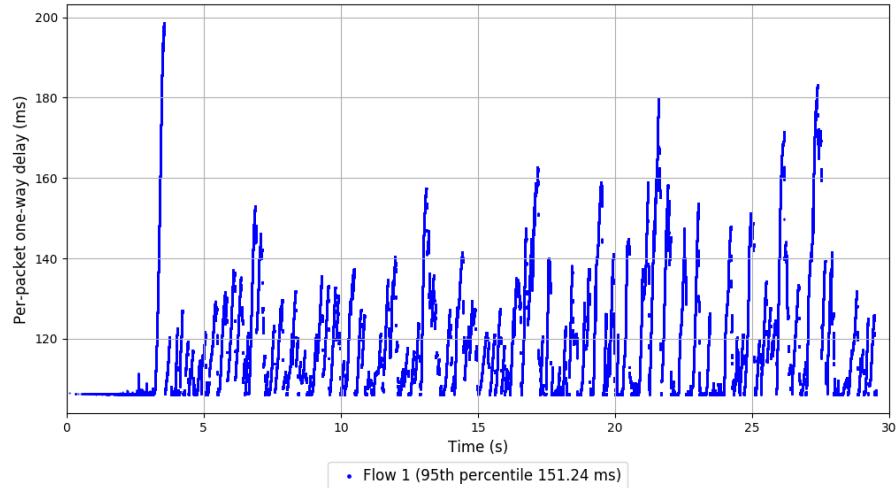
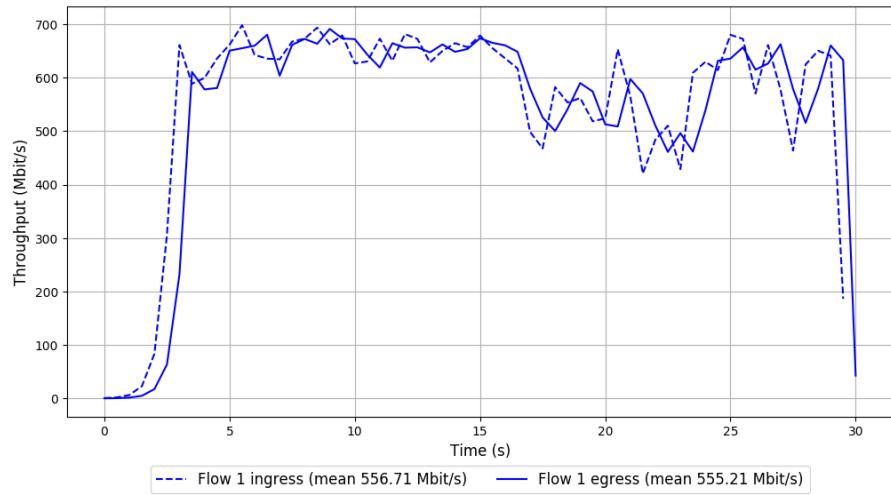


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-10-02 19:16:17
End at: 2019-10-02 19:16:47
Local clock offset: 6.962 ms
Remote clock offset: 9.554 ms

# Below is generated by plot.py at 2019-10-02 21:57:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 555.21 Mbit/s
95th percentile per-packet one-way delay: 151.243 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 555.21 Mbit/s
95th percentile per-packet one-way delay: 151.243 ms
Loss rate: 1.00%
```

Run 4: Report of Muses_DecisionTree — Data Link

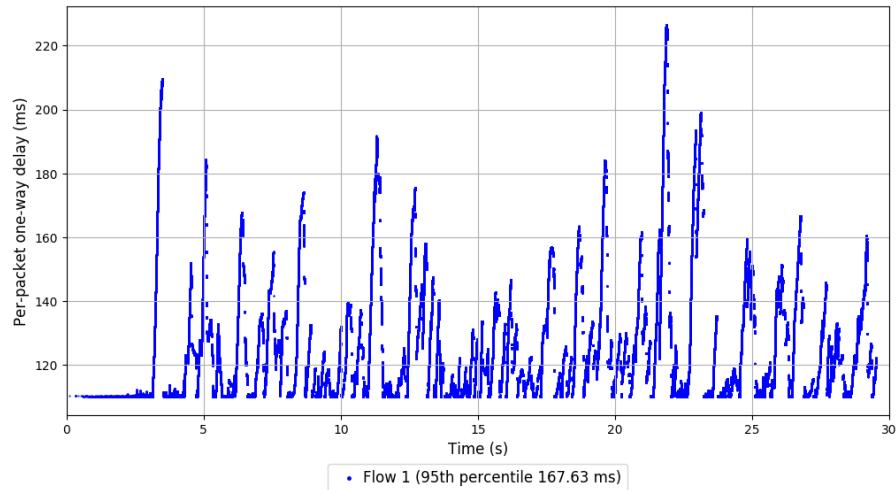
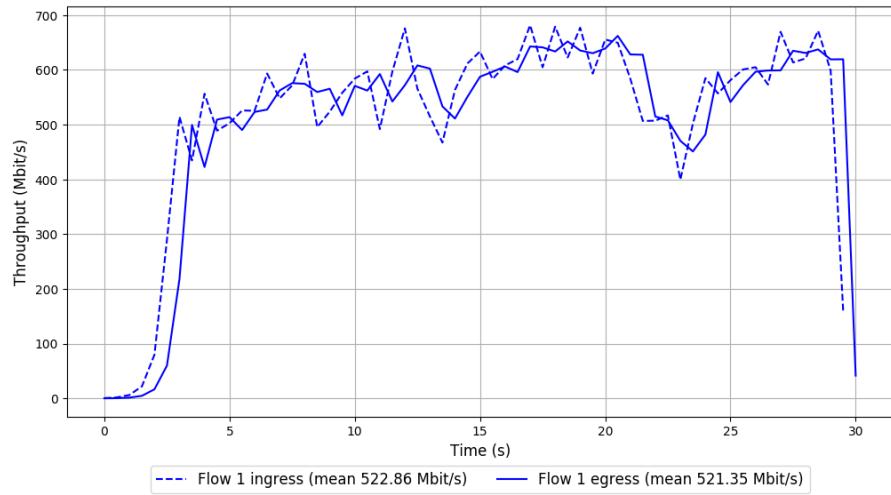


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-10-02 19:51:58
End at: 2019-10-02 19:52:28
Local clock offset: 2.53 ms
Remote clock offset: 3.534 ms

# Below is generated by plot.py at 2019-10-02 22:01:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 521.35 Mbit/s
95th percentile per-packet one-way delay: 167.627 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 521.35 Mbit/s
95th percentile per-packet one-way delay: 167.627 ms
Loss rate: 1.03%
```

Run 5: Report of Muses_DecisionTree — Data Link

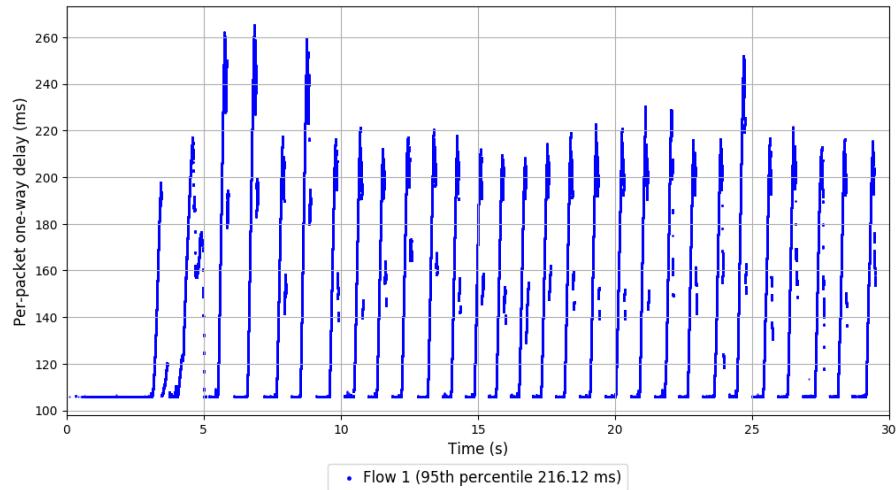
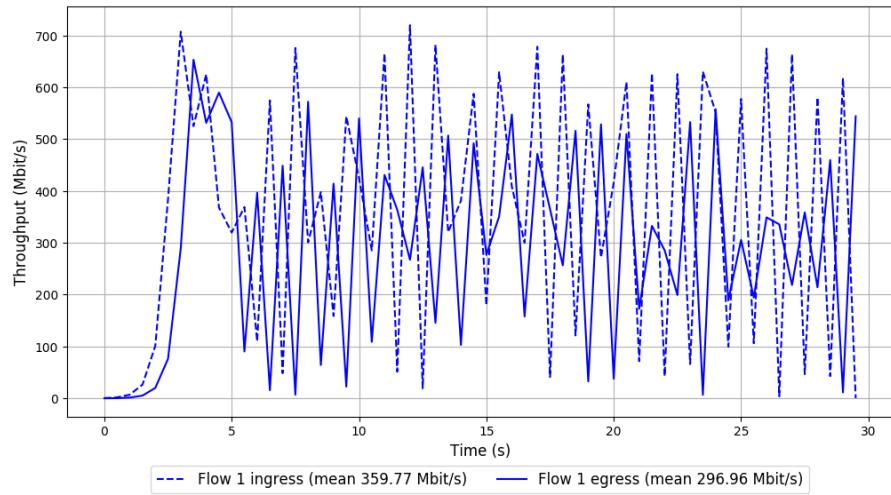


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-02 17:51:18
End at: 2019-10-02 17:51:48
Local clock offset: 12.378 ms
Remote clock offset: 17.696 ms

# Below is generated by plot.py at 2019-10-02 22:01:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 296.96 Mbit/s
95th percentile per-packet one-way delay: 216.121 ms
Loss rate: 18.05%
-- Flow 1:
Average throughput: 296.96 Mbit/s
95th percentile per-packet one-way delay: 216.121 ms
Loss rate: 18.05%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

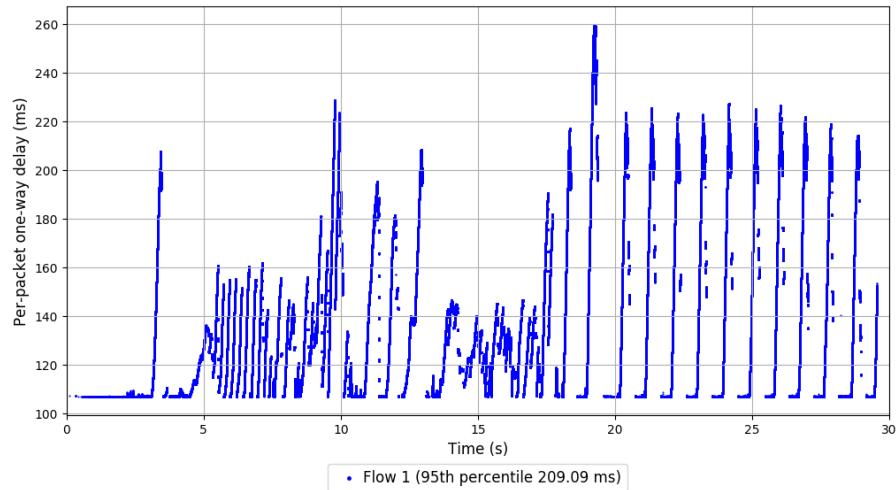
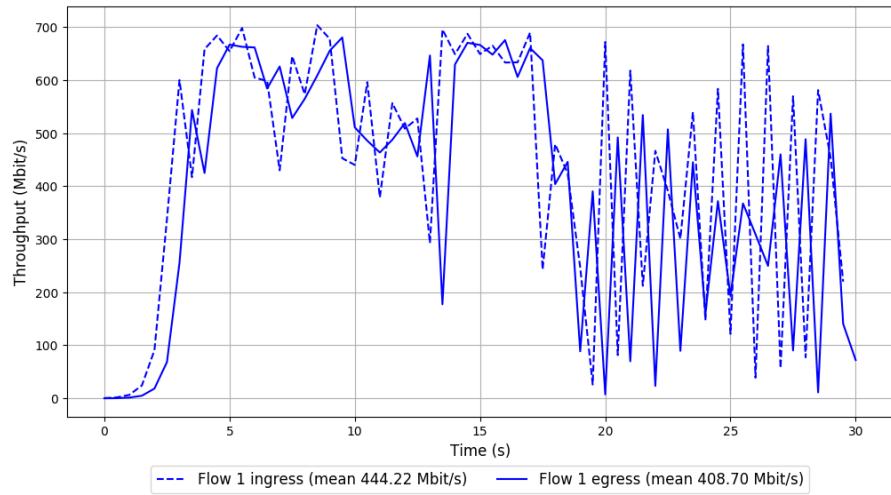


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-02 18:27:41
End at: 2019-10-02 18:28:11
Local clock offset: 25.781 ms
Remote clock offset: 35.919 ms

# Below is generated by plot.py at 2019-10-02 22:01:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 408.70 Mbit/s
95th percentile per-packet one-way delay: 209.085 ms
Loss rate: 8.65%
-- Flow 1:
Average throughput: 408.70 Mbit/s
95th percentile per-packet one-way delay: 209.085 ms
Loss rate: 8.65%
```

Run 2: Report of Muses_DecisionTreeH0 — Data Link

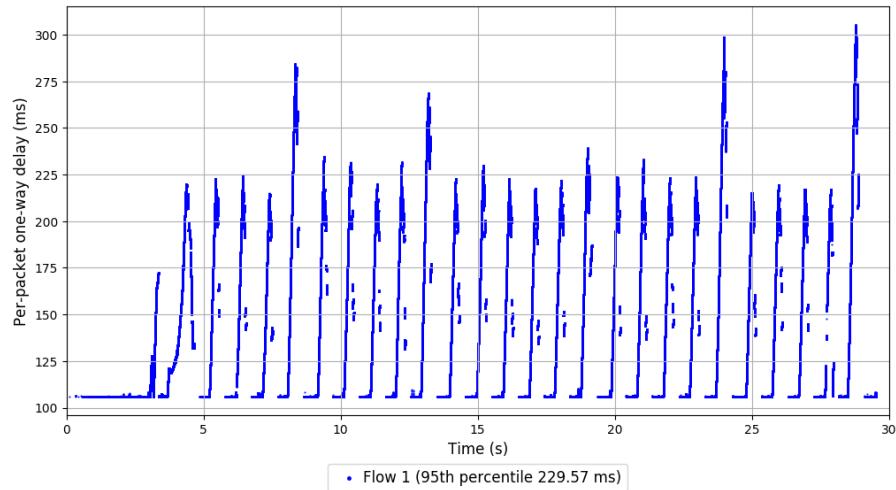
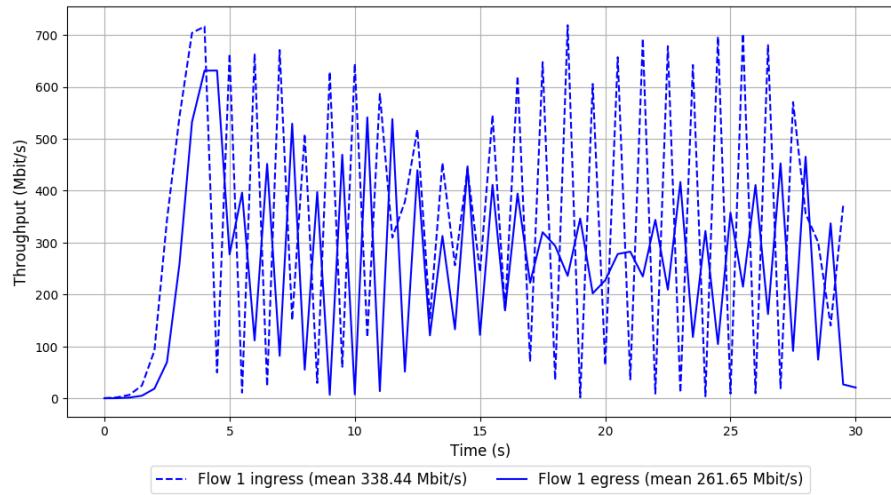


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-02 19:04:12
End at: 2019-10-02 19:04:42
Local clock offset: 14.159 ms
Remote clock offset: 19.829 ms

# Below is generated by plot.py at 2019-10-02 22:01:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 261.65 Mbit/s
95th percentile per-packet one-way delay: 229.573 ms
Loss rate: 23.25%
-- Flow 1:
Average throughput: 261.65 Mbit/s
95th percentile per-packet one-way delay: 229.573 ms
Loss rate: 23.25%
```

Run 3: Report of Muses_DecisionTreeH0 — Data Link

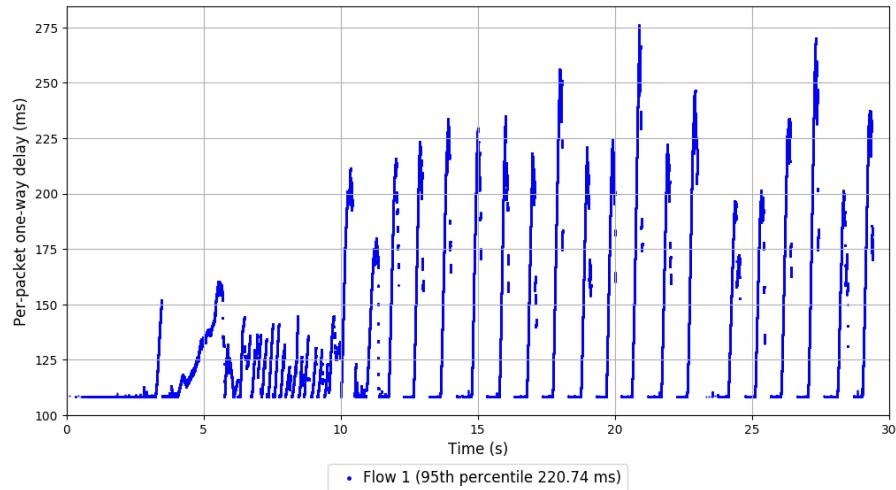
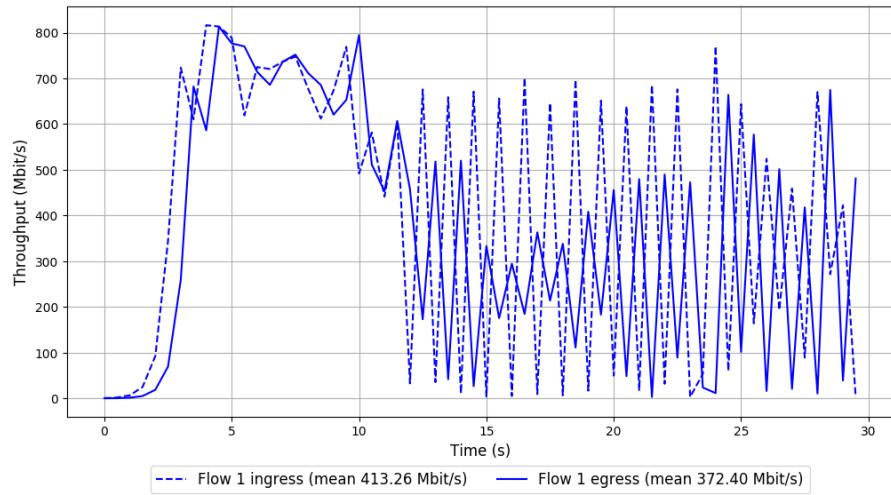


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-02 19:39:56
End at: 2019-10-02 19:40:26
Local clock offset: 7.008 ms
Remote clock offset: 9.899 ms

# Below is generated by plot.py at 2019-10-02 22:01:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 372.40 Mbit/s
95th percentile per-packet one-way delay: 220.744 ms
Loss rate: 11.00%
-- Flow 1:
Average throughput: 372.40 Mbit/s
95th percentile per-packet one-way delay: 220.744 ms
Loss rate: 11.00%
```

Run 4: Report of Muses_DecisionTreeH0 — Data Link

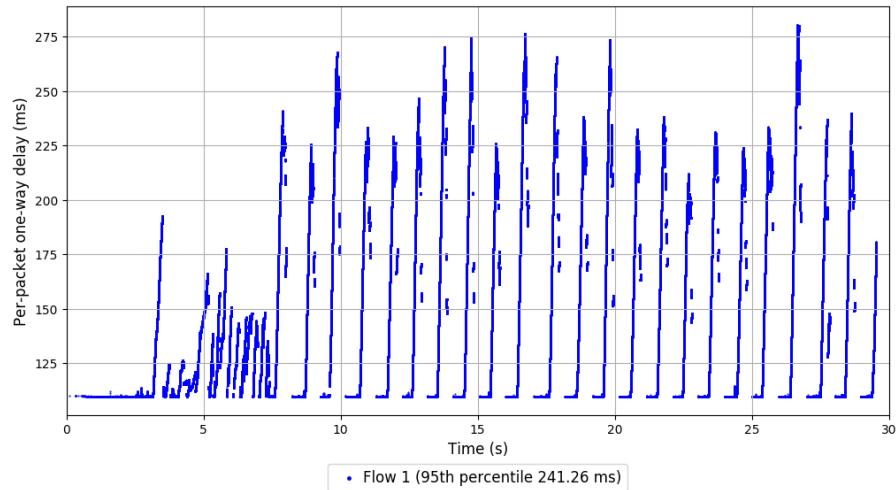
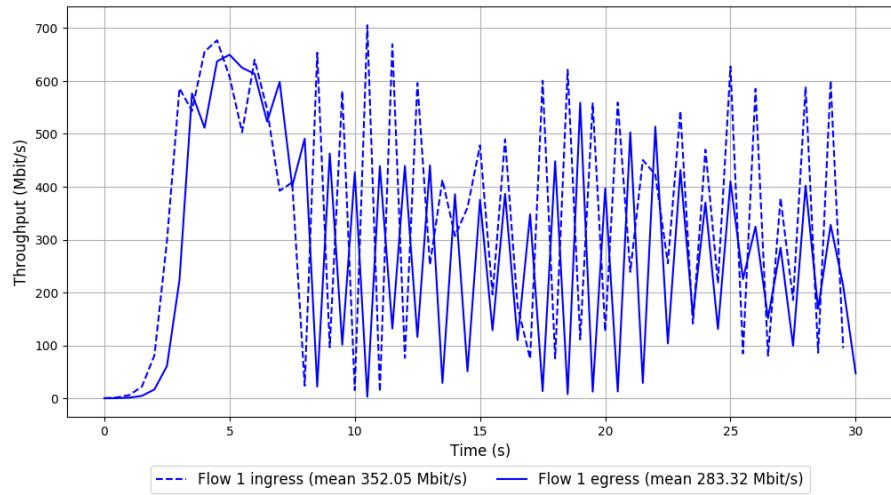


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-02 20:15:34
End at: 2019-10-02 20:16:04
Local clock offset: 1.492 ms
Remote clock offset: 2.222 ms

# Below is generated by plot.py at 2019-10-02 22:01:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 283.32 Mbit/s
95th percentile per-packet one-way delay: 241.264 ms
Loss rate: 20.02%
-- Flow 1:
Average throughput: 283.32 Mbit/s
95th percentile per-packet one-way delay: 241.264 ms
Loss rate: 20.02%
```

Run 5: Report of Muses_DecisionTreeH0 — Data Link

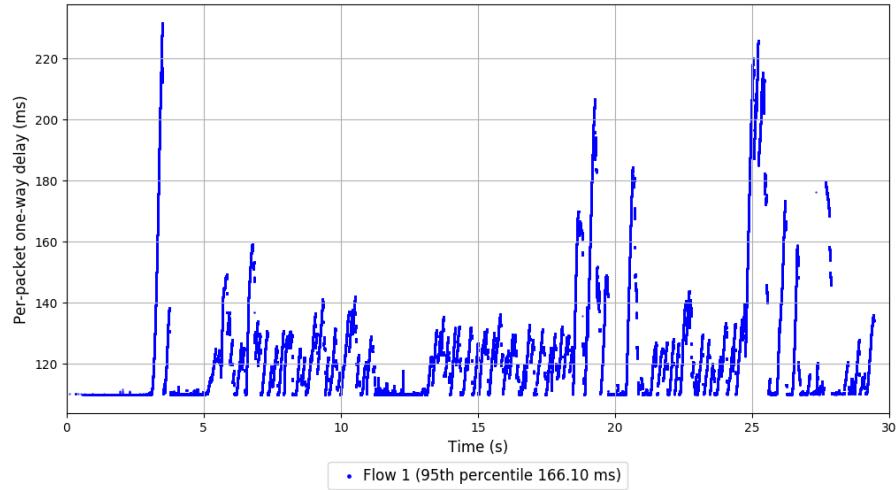
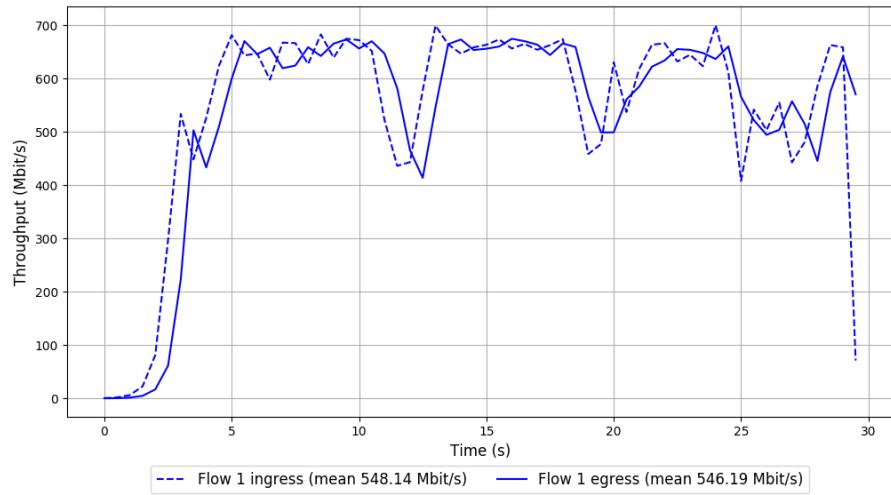


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-02 17:36:39
End at: 2019-10-02 17:37:09
Local clock offset: 7.126 ms
Remote clock offset: 10.453 ms

# Below is generated by plot.py at 2019-10-02 22:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 546.19 Mbit/s
95th percentile per-packet one-way delay: 166.100 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 546.19 Mbit/s
95th percentile per-packet one-way delay: 166.100 ms
Loss rate: 1.09%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

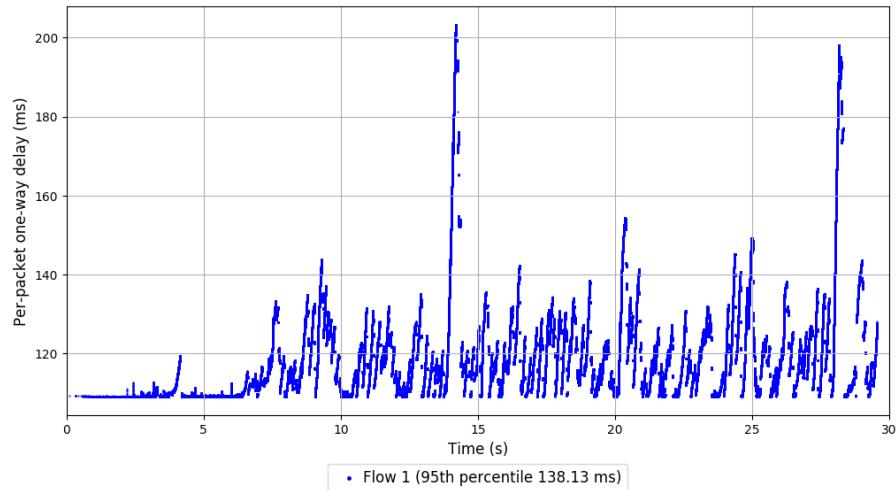
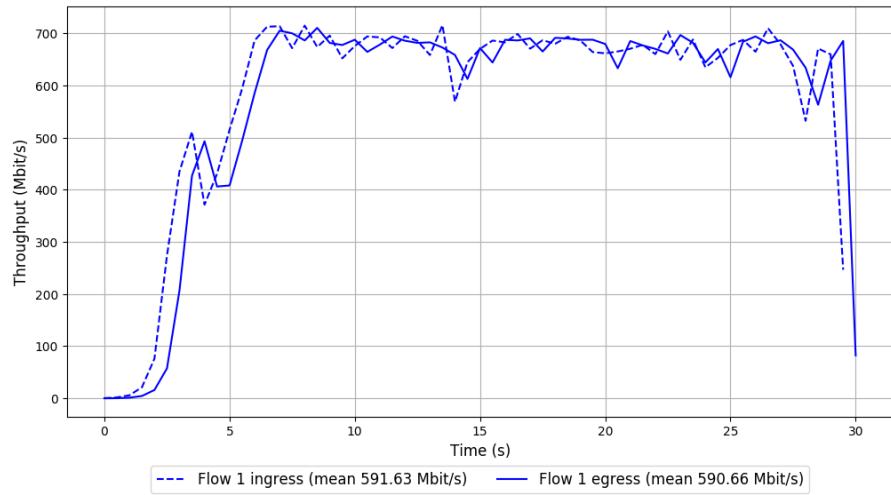


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-02 18:12:50
End at: 2019-10-02 18:13:20
Local clock offset: 15.99 ms
Remote clock offset: 22.483 ms

# Below is generated by plot.py at 2019-10-02 22:09:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 590.66 Mbit/s
95th percentile per-packet one-way delay: 138.134 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 590.66 Mbit/s
95th percentile per-packet one-way delay: 138.134 ms
Loss rate: 0.90%
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link

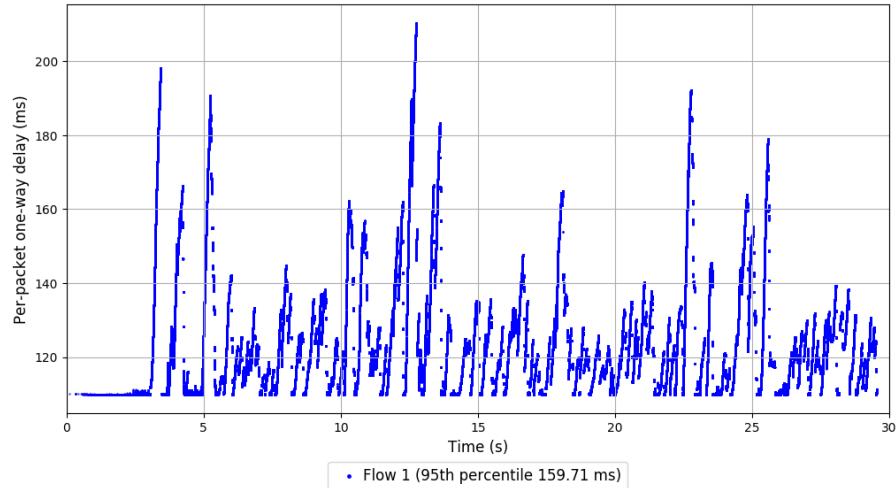
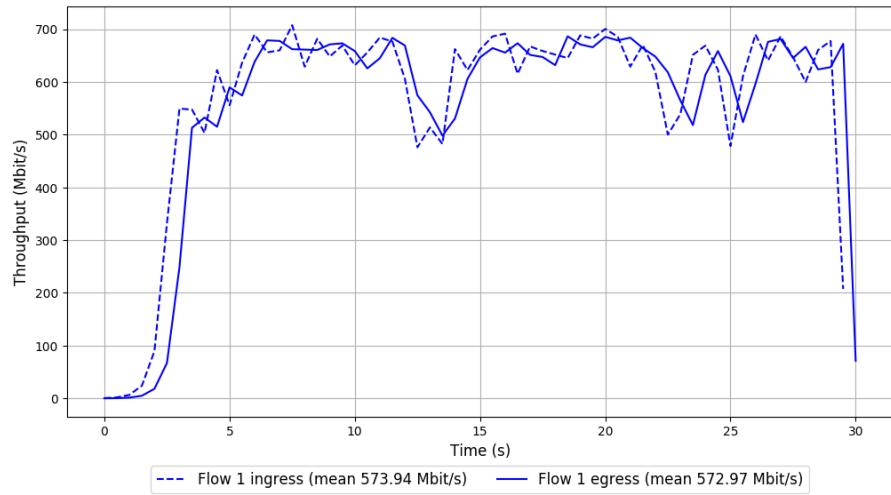


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-02 18:49:13
End at: 2019-10-02 18:49:44
Local clock offset: 11.107 ms
Remote clock offset: 15.801 ms

# Below is generated by plot.py at 2019-10-02 22:09:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 572.97 Mbit/s
95th percentile per-packet one-way delay: 159.706 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 572.97 Mbit/s
95th percentile per-packet one-way delay: 159.706 ms
Loss rate: 0.91%
```

Run 3: Report of Muses_DecisionTreeR0 — Data Link

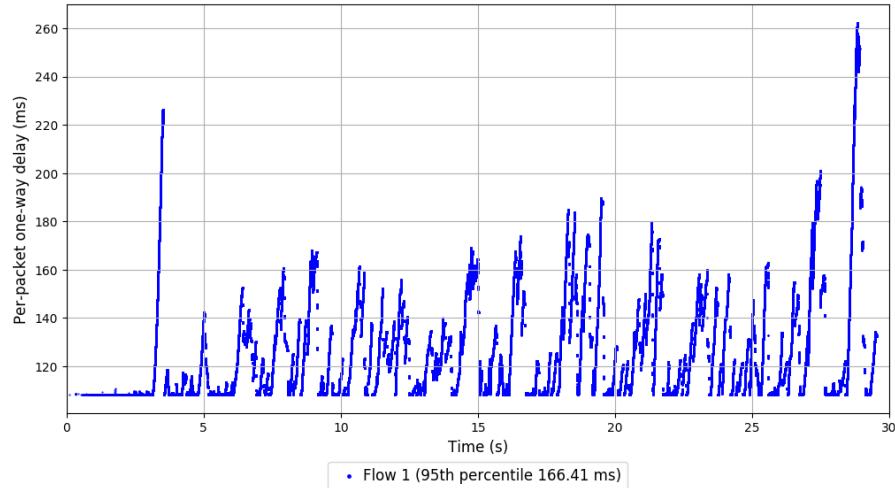
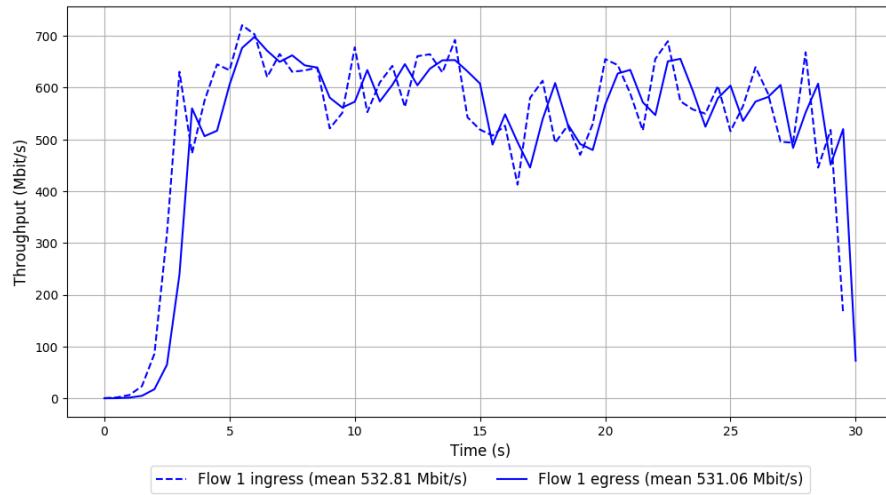


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-02 19:25:18
End at: 2019-10-02 19:25:48
Local clock offset: 5.398 ms
Remote clock offset: 7.698 ms

# Below is generated by plot.py at 2019-10-02 22:10:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 531.06 Mbit/s
95th percentile per-packet one-way delay: 166.415 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 531.06 Mbit/s
95th percentile per-packet one-way delay: 166.415 ms
Loss rate: 1.06%
```

Run 4: Report of Muses_DecisionTreeR0 — Data Link

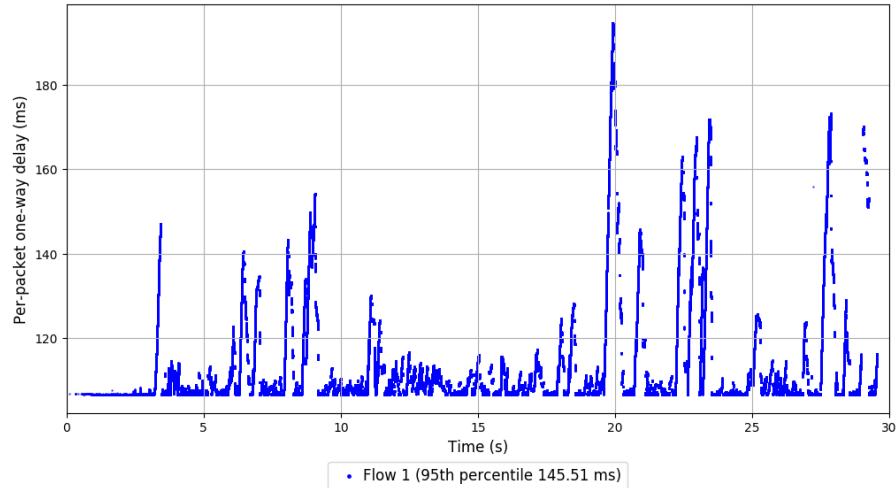
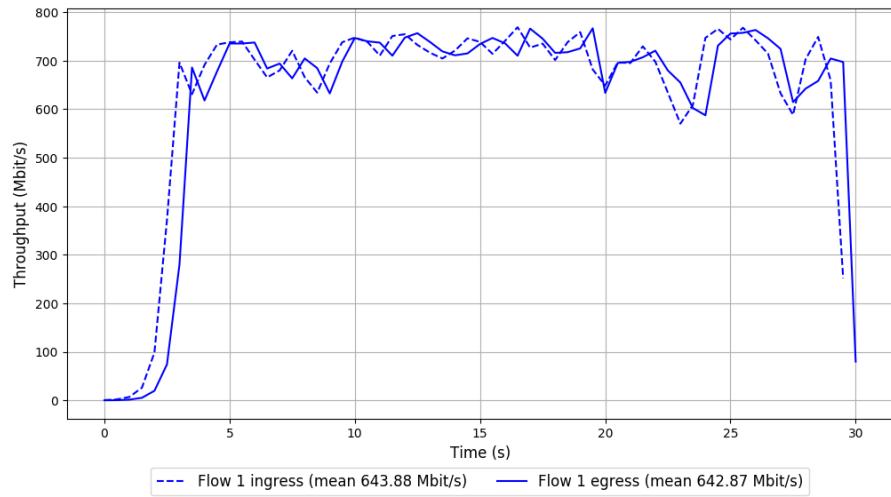


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-02 20:00:47
End at: 2019-10-02 20:01:17
Local clock offset: 1.573 ms
Remote clock offset: 2.239 ms

# Below is generated by plot.py at 2019-10-02 22:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 642.87 Mbit/s
95th percentile per-packet one-way delay: 145.514 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 642.87 Mbit/s
95th percentile per-packet one-way delay: 145.514 ms
Loss rate: 0.88%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link

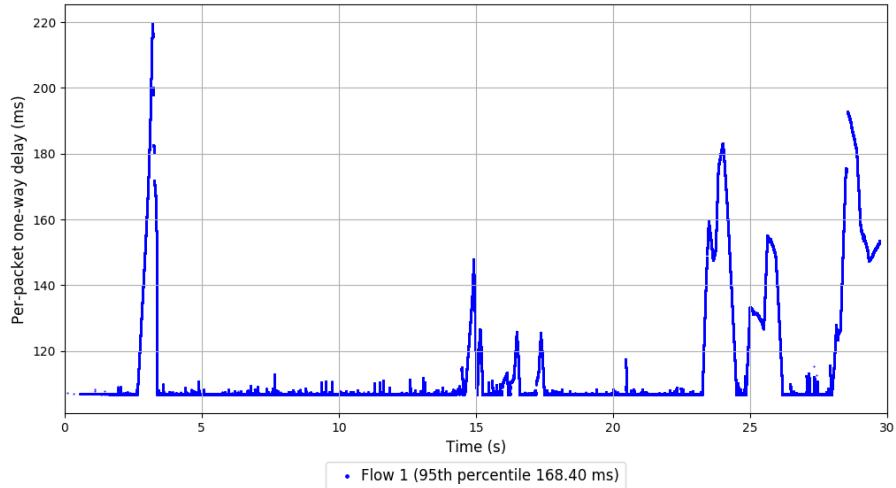
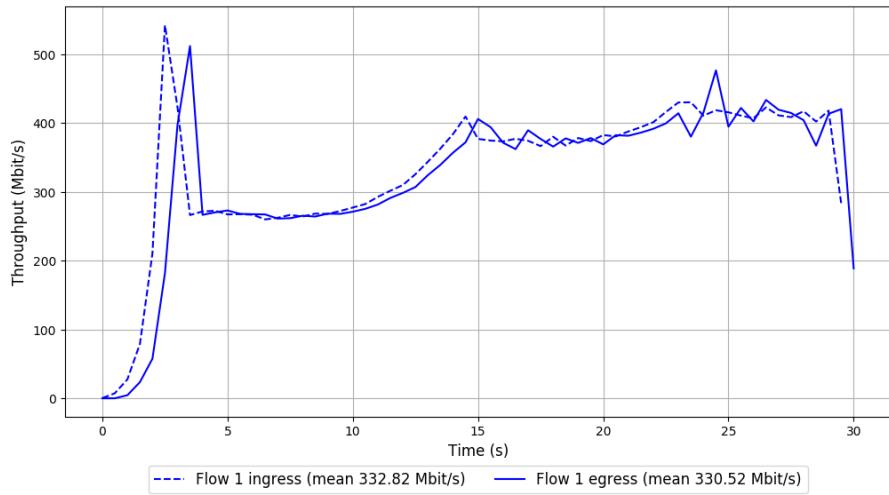


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-10-02 17:42:28
End at: 2019-10-02 17:42:58
Local clock offset: 12.122 ms
Remote clock offset: 16.383 ms

# Below is generated by plot.py at 2019-10-02 22:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.52 Mbit/s
95th percentile per-packet one-way delay: 168.395 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 330.52 Mbit/s
95th percentile per-packet one-way delay: 168.395 ms
Loss rate: 1.41%
```

Run 1: Report of PCC-Allegro — Data Link

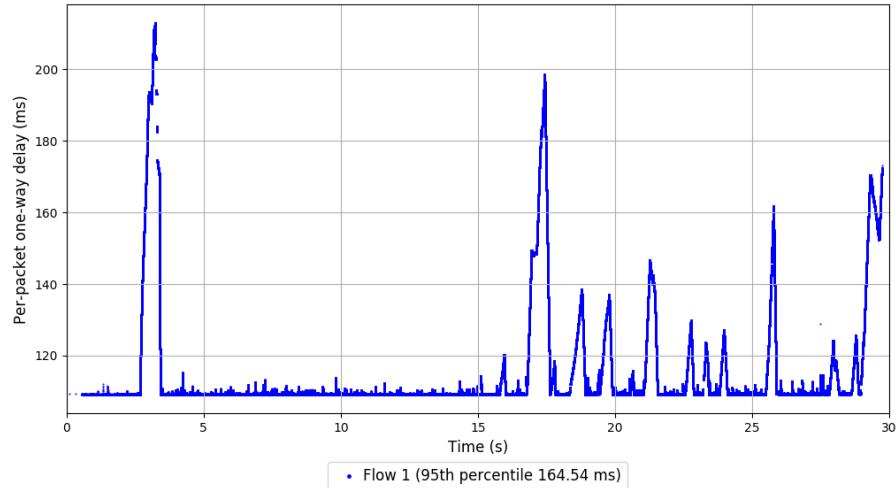
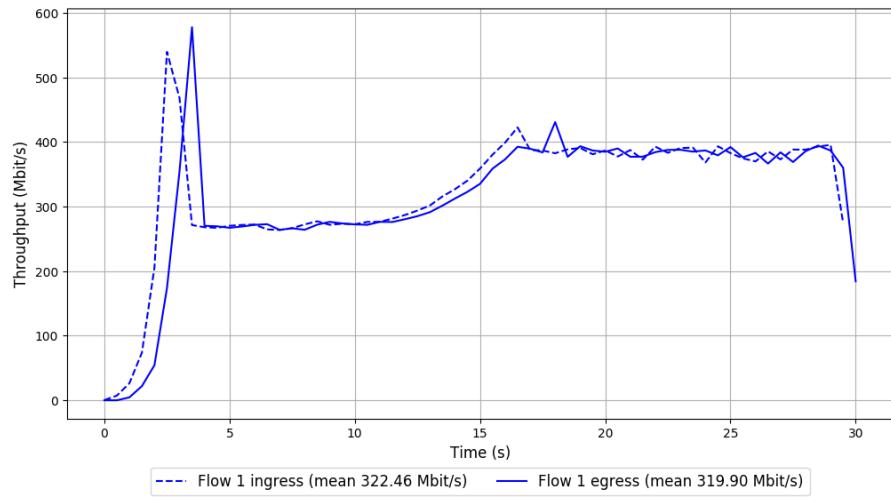


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-10-02 18:18:54
End at: 2019-10-02 18:19:24
Local clock offset: 19.341 ms
Remote clock offset: 27.106 ms

# Below is generated by plot.py at 2019-10-02 22:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.90 Mbit/s
95th percentile per-packet one-way delay: 164.545 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 319.90 Mbit/s
95th percentile per-packet one-way delay: 164.545 ms
Loss rate: 1.52%
```

Run 2: Report of PCC-Allegro — Data Link

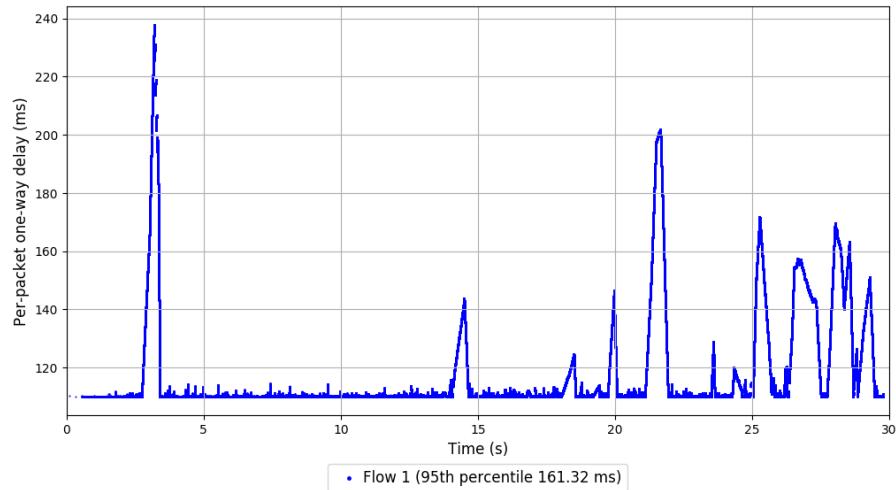
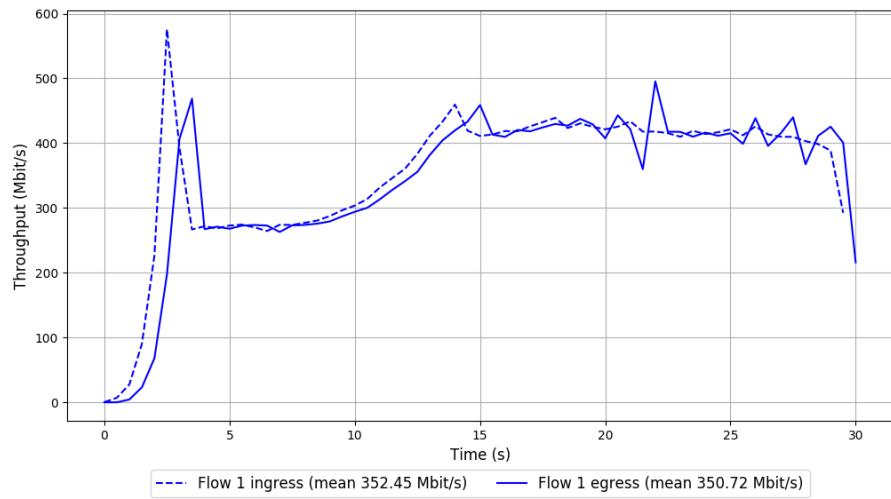


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-10-02 18:55:23
End at: 2019-10-02 18:55:53
Local clock offset: 11.757 ms
Remote clock offset: 16.444 ms

# Below is generated by plot.py at 2019-10-02 22:14:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 350.72 Mbit/s
95th percentile per-packet one-way delay: 161.318 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 350.72 Mbit/s
95th percentile per-packet one-way delay: 161.318 ms
Loss rate: 1.22%
```

Run 3: Report of PCC-Allegro — Data Link

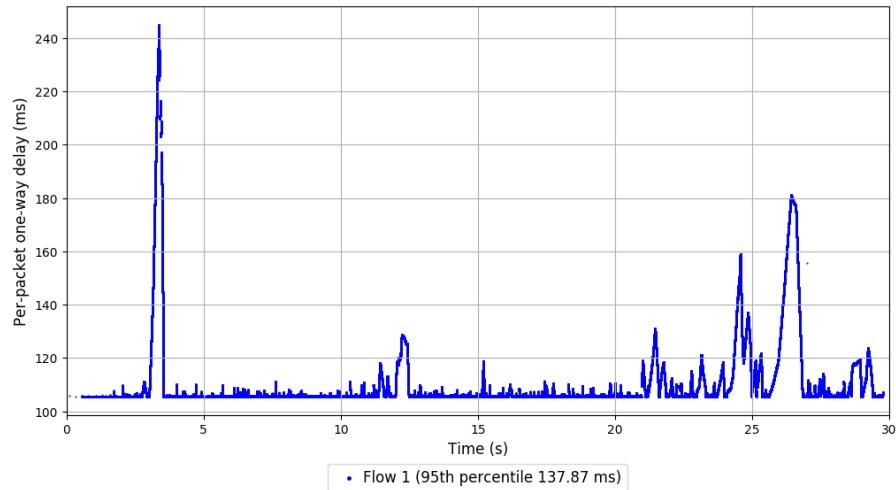
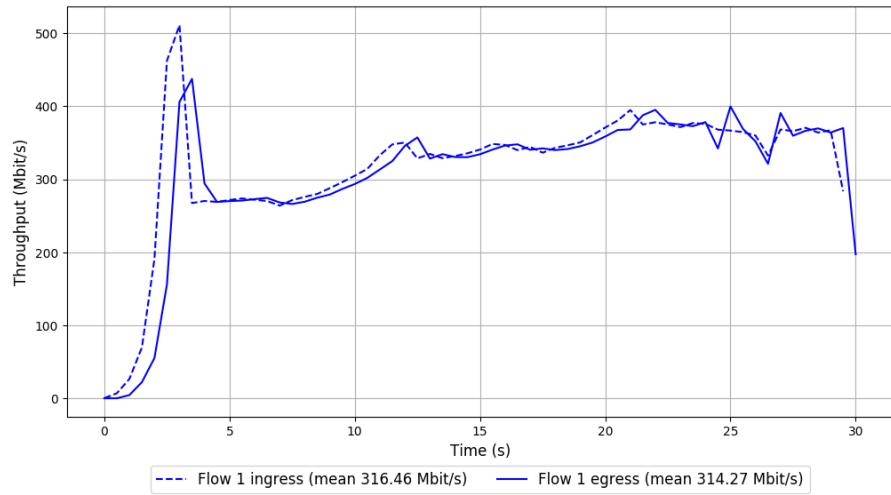


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-10-02 19:31:12
End at: 2019-10-02 19:31:42
Local clock offset: 5.771 ms
Remote clock offset: 8.562 ms

# Below is generated by plot.py at 2019-10-02 22:20:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 314.27 Mbit/s
95th percentile per-packet one-way delay: 137.865 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 314.27 Mbit/s
95th percentile per-packet one-way delay: 137.865 ms
Loss rate: 1.41%
```

Run 4: Report of PCC-Allegro — Data Link

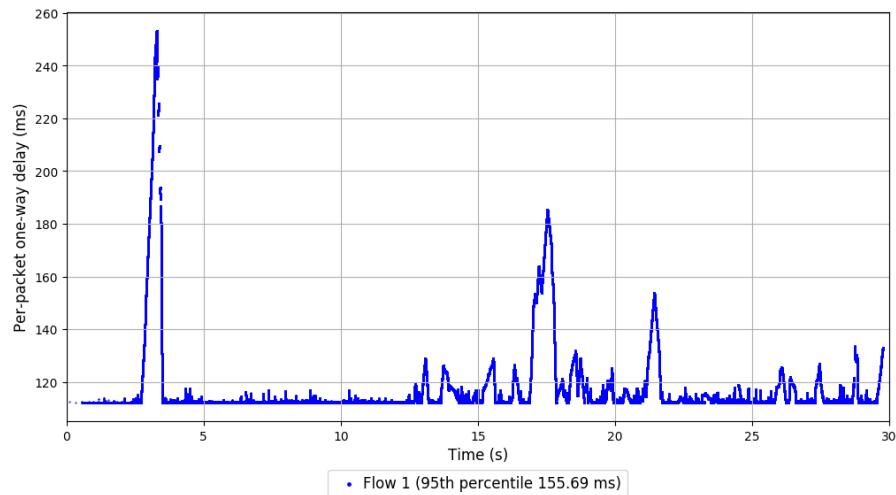
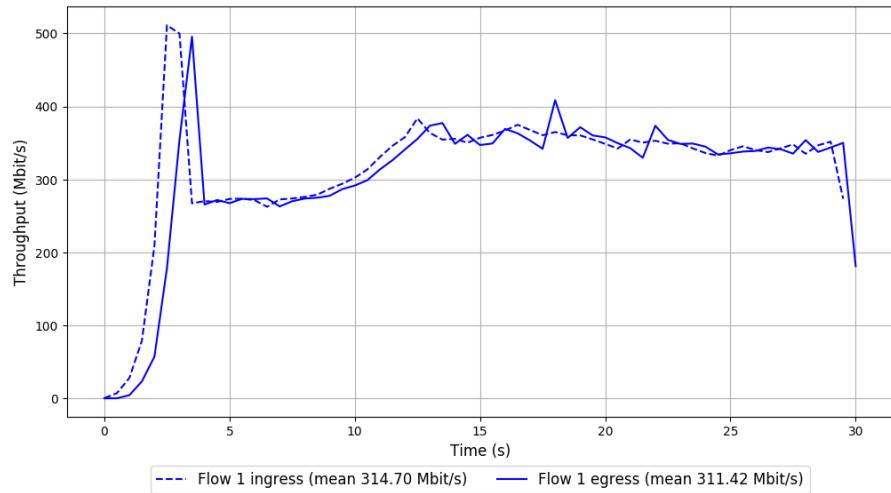


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-10-02 20:06:54
End at: 2019-10-02 20:07:24
Local clock offset: 1.459 ms
Remote clock offset: 2.123 ms

# Below is generated by plot.py at 2019-10-02 22:21:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 311.42 Mbit/s
95th percentile per-packet one-way delay: 155.693 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 311.42 Mbit/s
95th percentile per-packet one-way delay: 155.693 ms
Loss rate: 1.78%
```

Run 5: Report of PCC-Allegro — Data Link

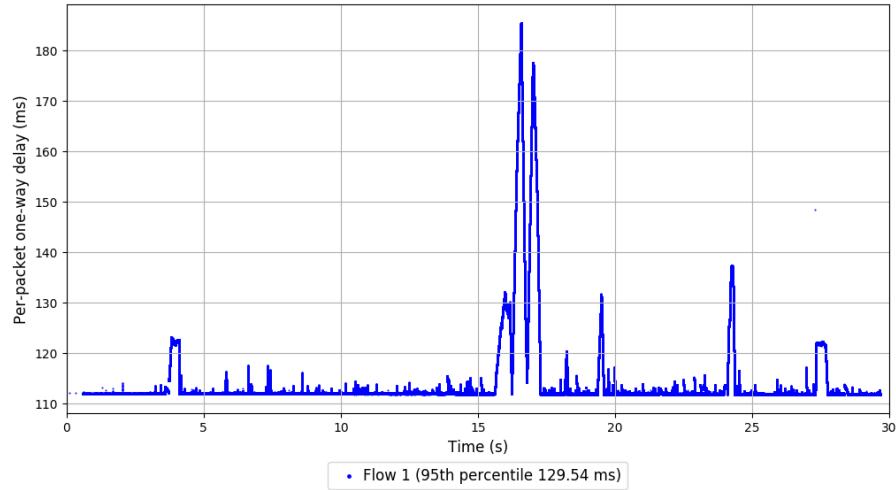
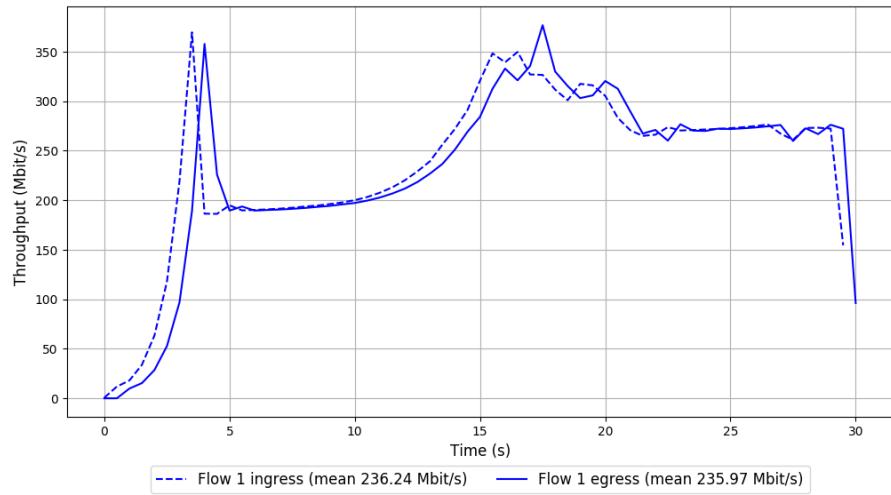


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-10-02 17:33:29
End at: 2019-10-02 17:33:59
Local clock offset: 8.46 ms
Remote clock offset: 10.697 ms

# Below is generated by plot.py at 2019-10-02 22:21:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 235.97 Mbit/s
95th percentile per-packet one-way delay: 129.539 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 235.97 Mbit/s
95th percentile per-packet one-way delay: 129.539 ms
Loss rate: 0.85%
```

Run 1: Report of PCC-Expr — Data Link

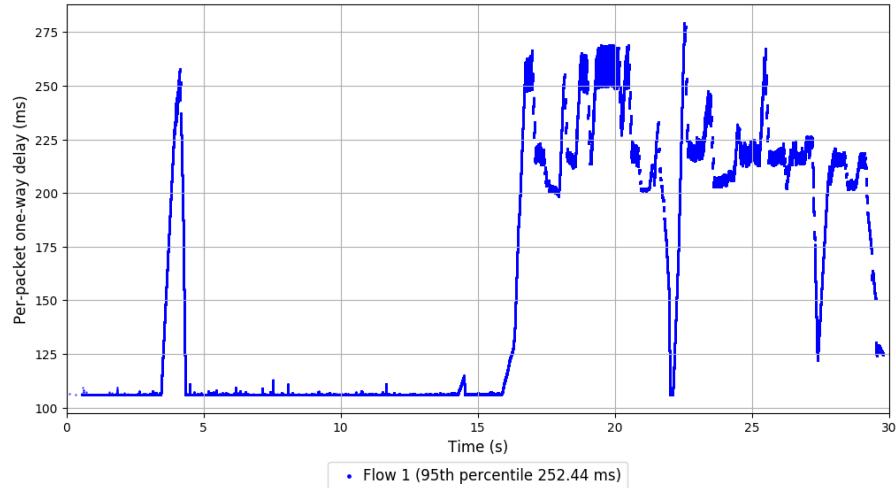
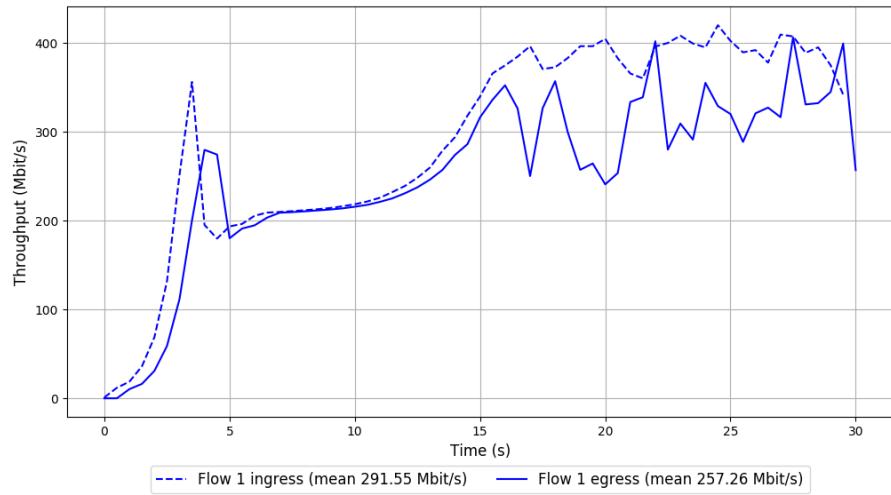


Run 2: Statistics of PCC-Expr

```
Start at: 2019-10-02 18:09:36
End at: 2019-10-02 18:10:07
Local clock offset: 14.48 ms
Remote clock offset: 20.991 ms

# Below is generated by plot.py at 2019-10-02 22:21:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.26 Mbit/s
95th percentile per-packet one-way delay: 252.445 ms
Loss rate: 12.40%
-- Flow 1:
Average throughput: 257.26 Mbit/s
95th percentile per-packet one-way delay: 252.445 ms
Loss rate: 12.40%
```

Run 2: Report of PCC-Expr — Data Link

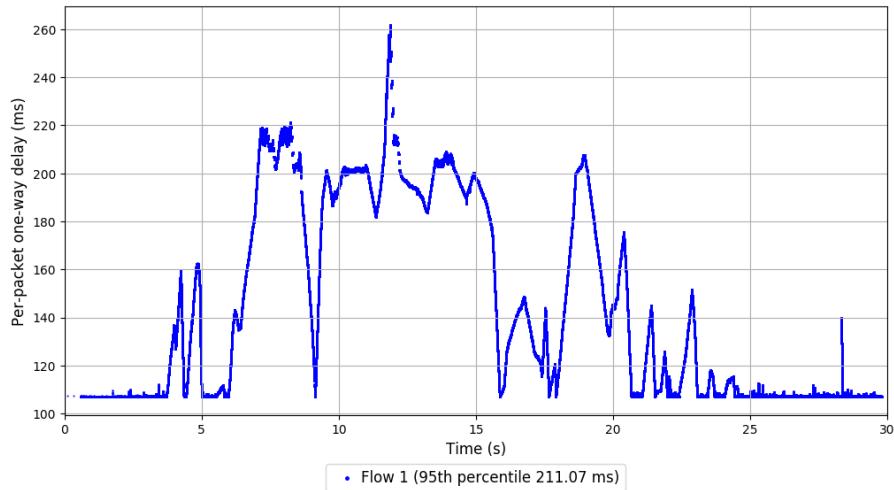
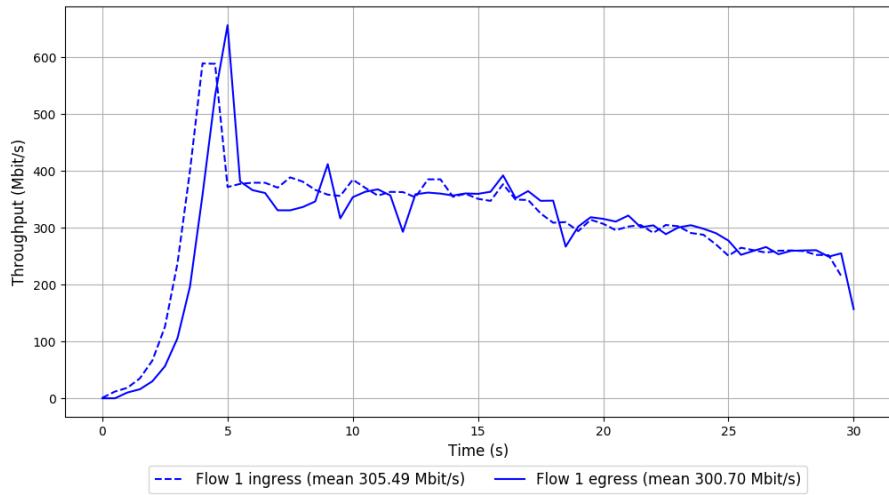


Run 3: Statistics of PCC-Expr

```
Start at: 2019-10-02 18:45:58
End at: 2019-10-02 18:46:28
Local clock offset: 12.131 ms
Remote clock offset: 16.564 ms

# Below is generated by plot.py at 2019-10-02 22:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.70 Mbit/s
95th percentile per-packet one-way delay: 211.074 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 300.70 Mbit/s
95th percentile per-packet one-way delay: 211.074 ms
Loss rate: 2.28%
```

Run 3: Report of PCC-Expr — Data Link

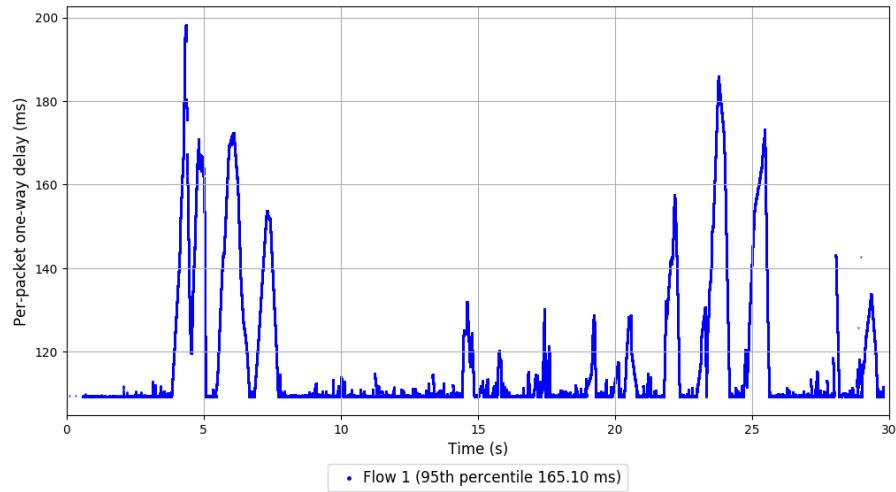
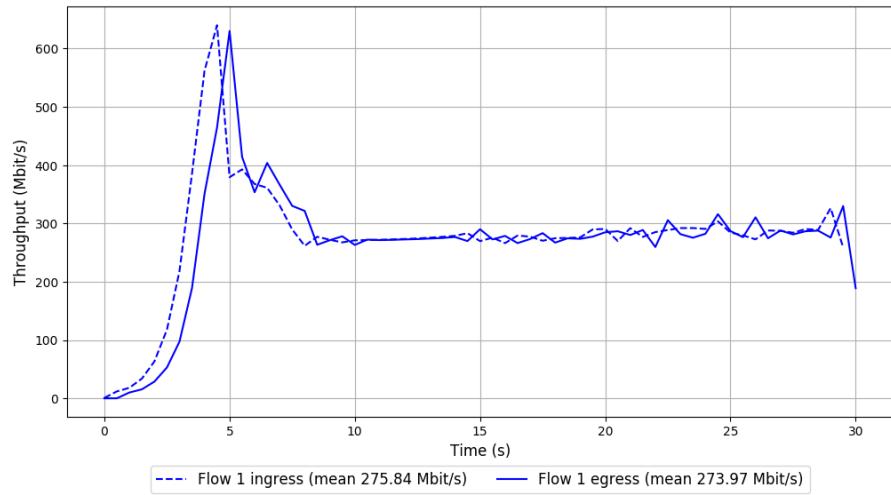


Run 4: Statistics of PCC-Expr

```
Start at: 2019-10-02 19:22:05
End at: 2019-10-02 19:22:35
Local clock offset: 5.608 ms
Remote clock offset: 7.891 ms

# Below is generated by plot.py at 2019-10-02 22:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 273.97 Mbit/s
95th percentile per-packet one-way delay: 165.096 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 273.97 Mbit/s
95th percentile per-packet one-way delay: 165.096 ms
Loss rate: 1.40%
```

Run 4: Report of PCC-Expr — Data Link

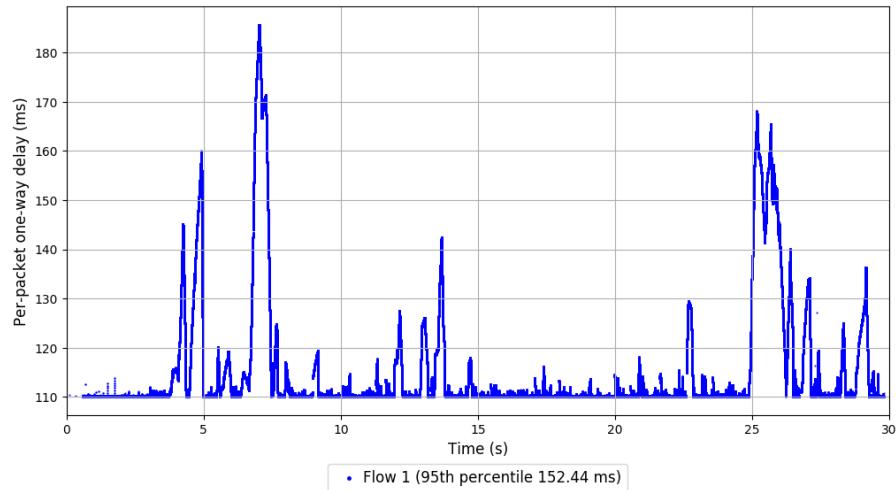
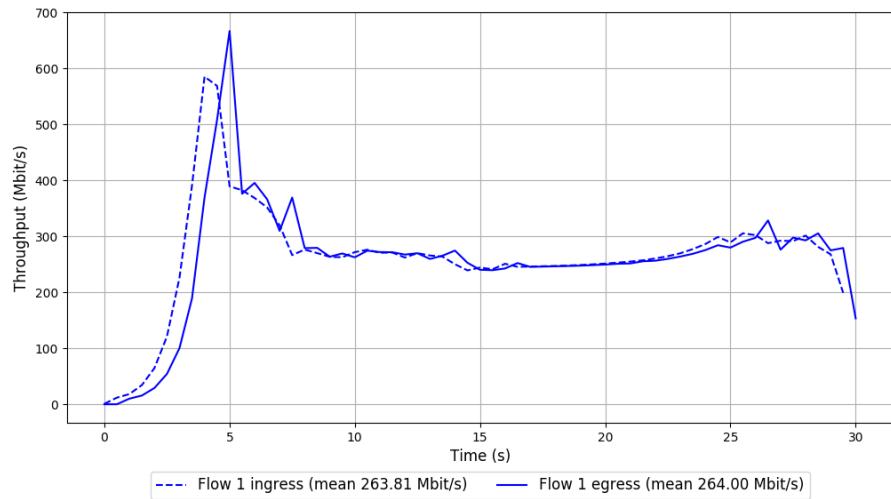


Run 5: Statistics of PCC-Expr

```
Start at: 2019-10-02 19:57:34
End at: 2019-10-02 19:58:04
Local clock offset: 1.711 ms
Remote clock offset: 2.524 ms

# Below is generated by plot.py at 2019-10-02 22:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 264.00 Mbit/s
95th percentile per-packet one-way delay: 152.445 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 264.00 Mbit/s
95th percentile per-packet one-way delay: 152.445 ms
Loss rate: 0.66%
```

Run 5: Report of PCC-Expr — Data Link

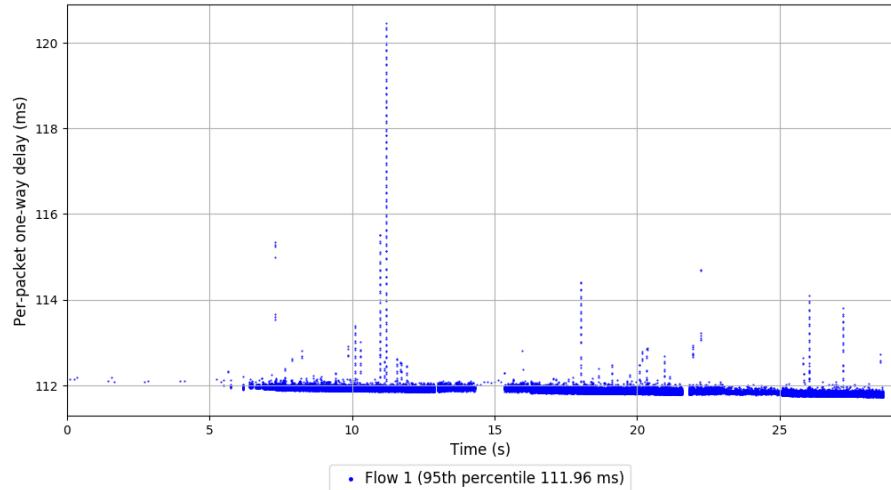
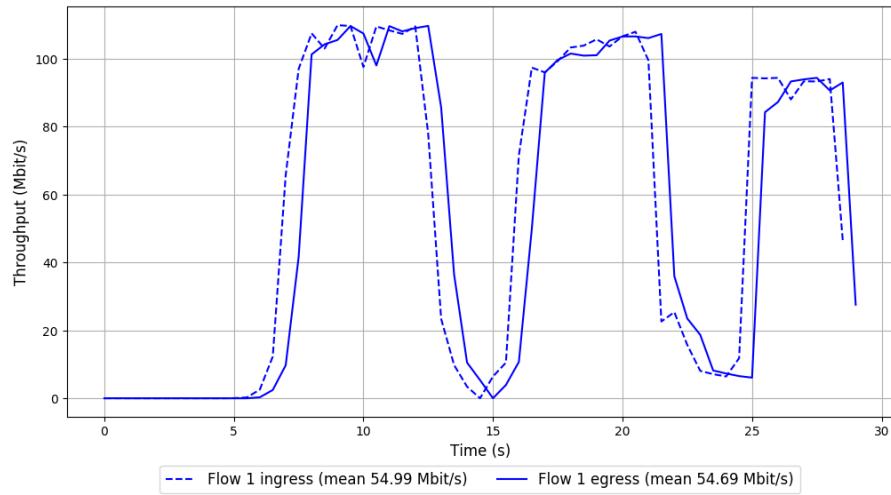


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-10-02 17:59:14
End at: 2019-10-02 17:59:44
Local clock offset: 19.209 ms
Remote clock offset: 26.534 ms

# Below is generated by plot.py at 2019-10-02 22:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.69 Mbit/s
95th percentile per-packet one-way delay: 111.957 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 54.69 Mbit/s
95th percentile per-packet one-way delay: 111.957 ms
Loss rate: 1.30%
```

Run 1: Report of QUIC Cubic — Data Link

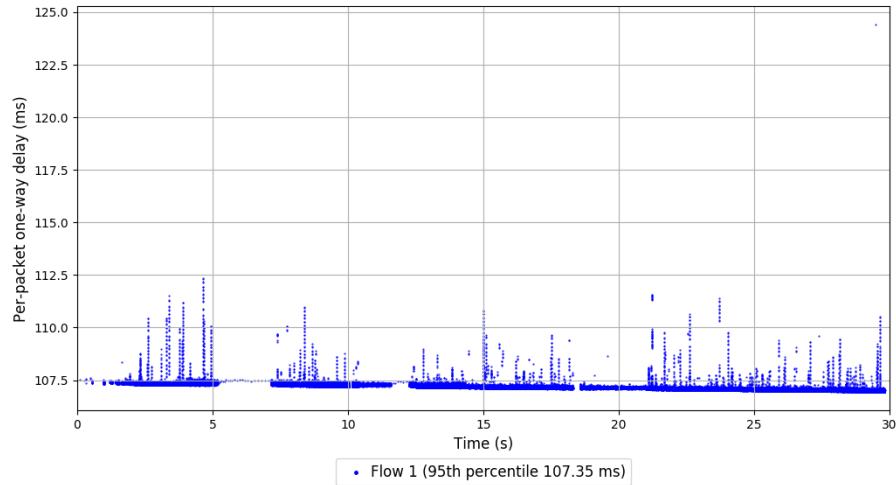
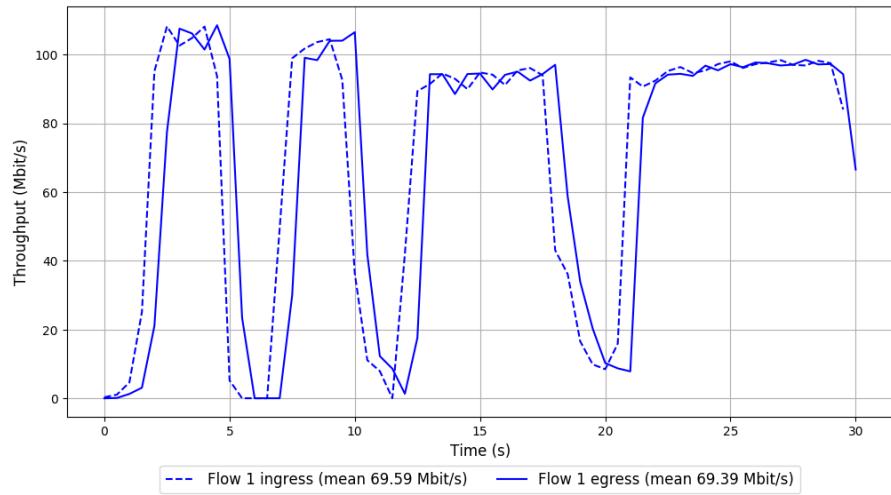


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-10-02 18:35:44
End at: 2019-10-02 18:36:14
Local clock offset: 22.588 ms
Remote clock offset: 30.568 ms

# Below is generated by plot.py at 2019-10-02 22:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.39 Mbit/s
95th percentile per-packet one-way delay: 107.349 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 69.39 Mbit/s
95th percentile per-packet one-way delay: 107.349 ms
Loss rate: 1.01%
```

Run 2: Report of QUIC Cubic — Data Link

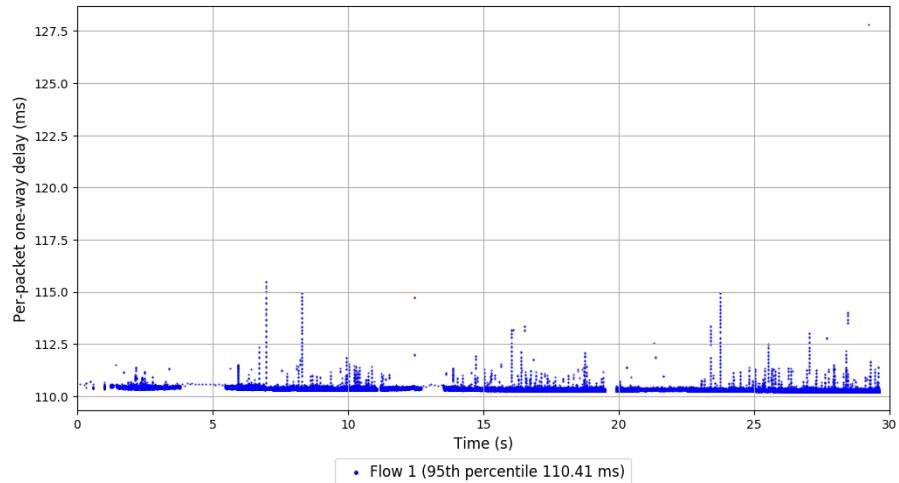
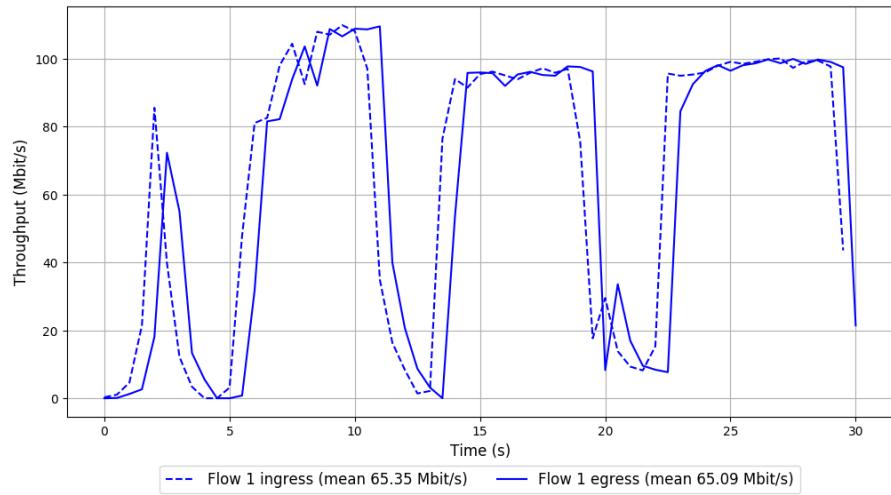


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-10-02 19:12:10
End at: 2019-10-02 19:12:40
Local clock offset: 9.403 ms
Remote clock offset: 12.651 ms

# Below is generated by plot.py at 2019-10-02 22:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.09 Mbit/s
95th percentile per-packet one-way delay: 110.411 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 65.09 Mbit/s
95th percentile per-packet one-way delay: 110.411 ms
Loss rate: 1.13%
```

Run 3: Report of QUIC Cubic — Data Link

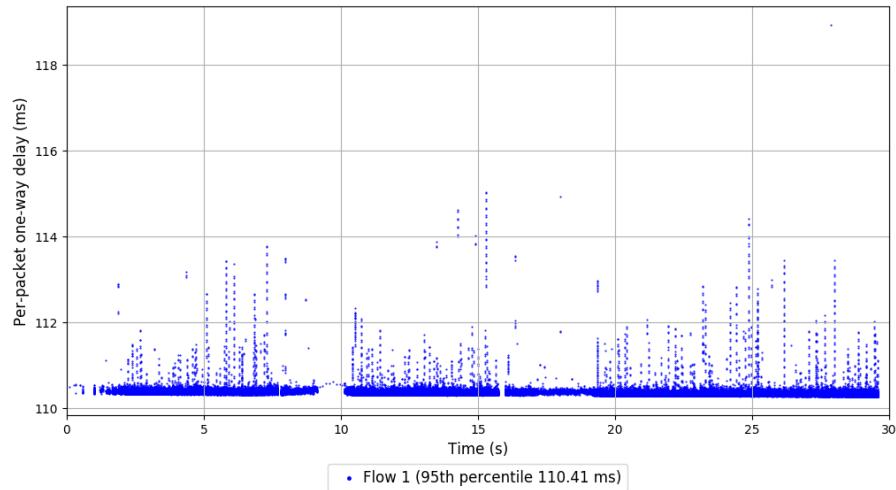
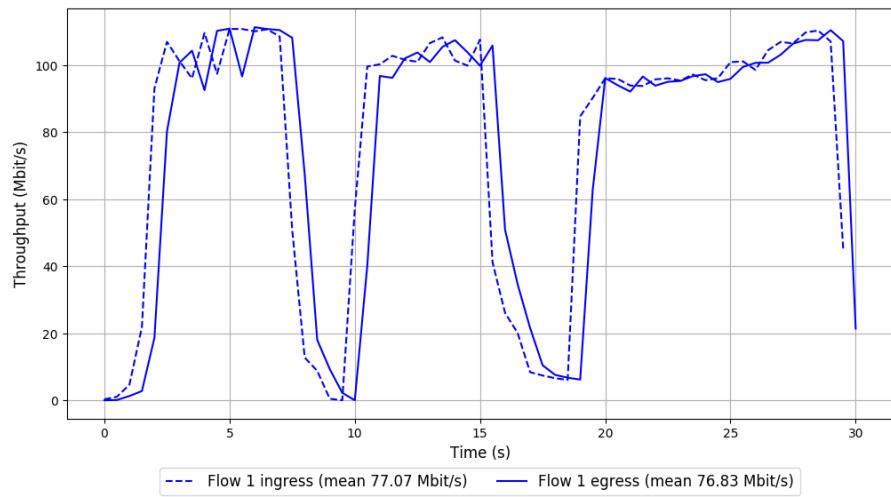


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-10-02 19:47:51
End at: 2019-10-02 19:48:21
Local clock offset: 3.637 ms
Remote clock offset: 4.575 ms

# Below is generated by plot.py at 2019-10-02 22:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.83 Mbit/s
95th percentile per-packet one-way delay: 110.411 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 76.83 Mbit/s
95th percentile per-packet one-way delay: 110.411 ms
Loss rate: 1.05%
```

Run 4: Report of QUIC Cubic — Data Link

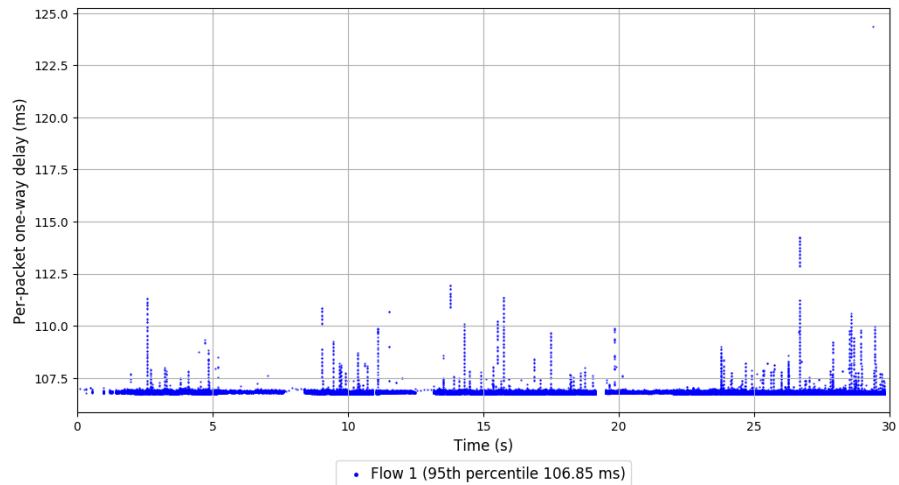
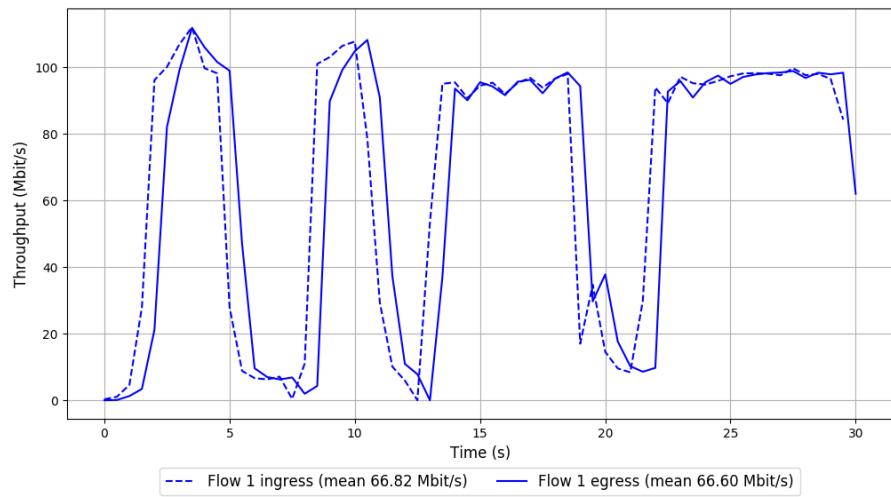


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-10-02 20:23:30
End at: 2019-10-02 20:24:00
Local clock offset: 0.751 ms
Remote clock offset: 1.092 ms

# Below is generated by plot.py at 2019-10-02 22:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.60 Mbit/s
95th percentile per-packet one-way delay: 106.850 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 66.60 Mbit/s
95th percentile per-packet one-way delay: 106.850 ms
Loss rate: 1.05%
```

Run 5: Report of QUIC Cubic — Data Link

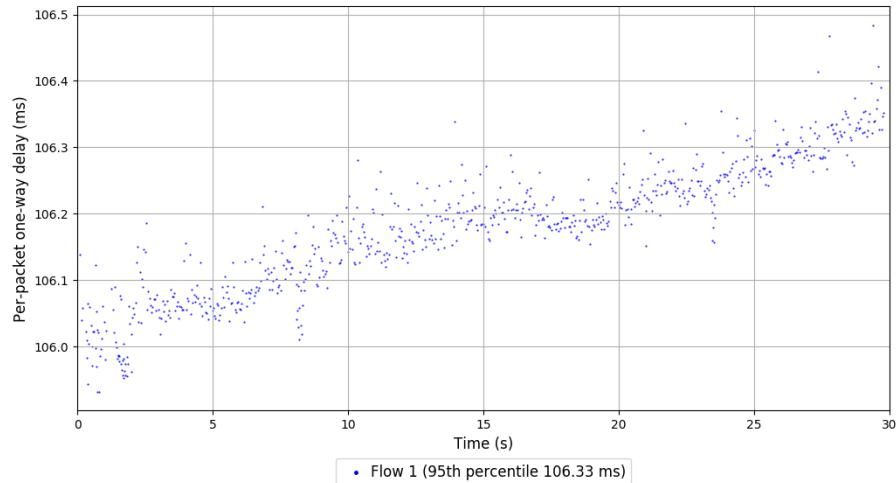
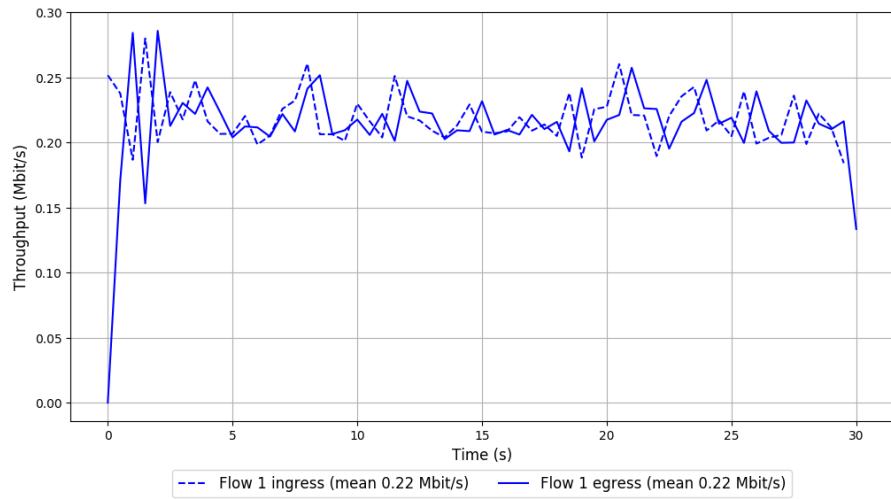


Run 1: Statistics of SCReAM

```
Start at: 2019-10-02 17:39:47
End at: 2019-10-02 17:40:17
Local clock offset: 10.659 ms
Remote clock offset: 15.258 ms

# Below is generated by plot.py at 2019-10-02 22:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.328 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.328 ms
Loss rate: 0.77%
```

Run 1: Report of SCReAM — Data Link

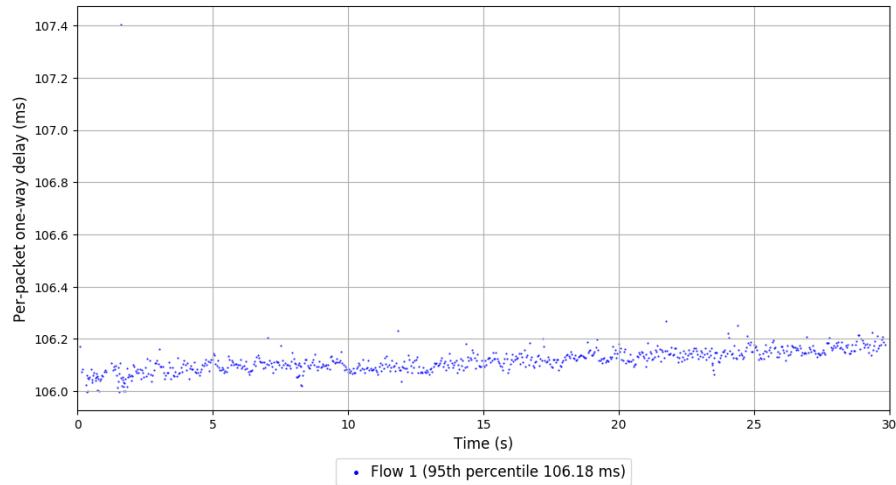
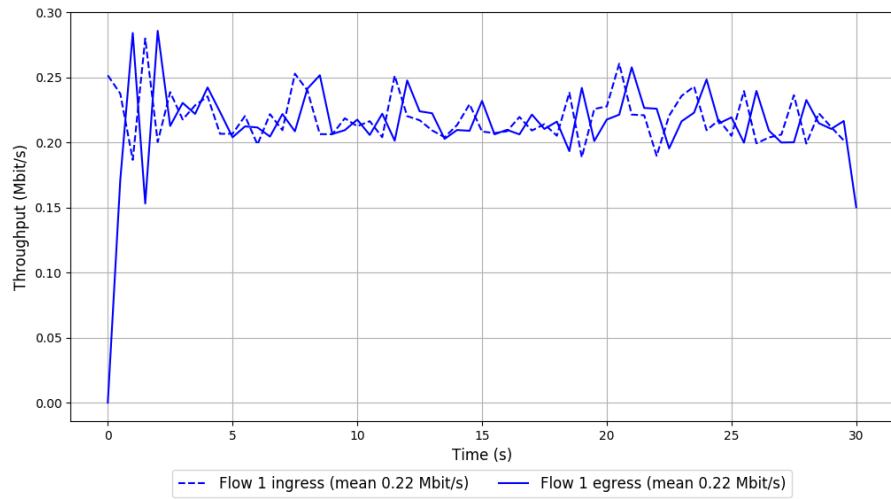


Run 2: Statistics of SCReAM

```
Start at: 2019-10-02 18:16:14
End at: 2019-10-02 18:16:44
Local clock offset: 17.666 ms
Remote clock offset: 24.885 ms

# Below is generated by plot.py at 2019-10-02 22:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.182 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.182 ms
Loss rate: 0.77%
```

Run 2: Report of SCReAM — Data Link

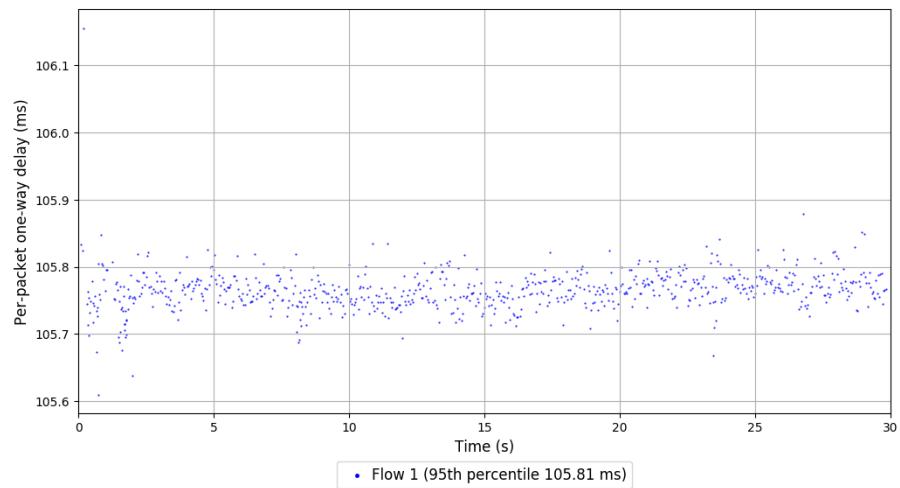
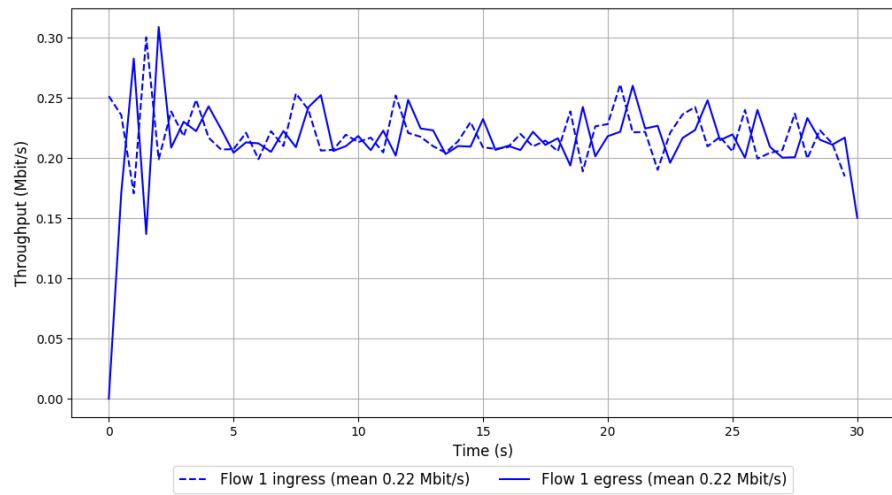


Run 3: Statistics of SCReAM

```
Start at: 2019-10-02 18:52:37
End at: 2019-10-02 18:53:07
Local clock offset: 10.887 ms
Remote clock offset: 15.833 ms

# Below is generated by plot.py at 2019-10-02 22:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 105.808 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 105.808 ms
Loss rate: 0.64%
```

Run 3: Report of SCReAM — Data Link

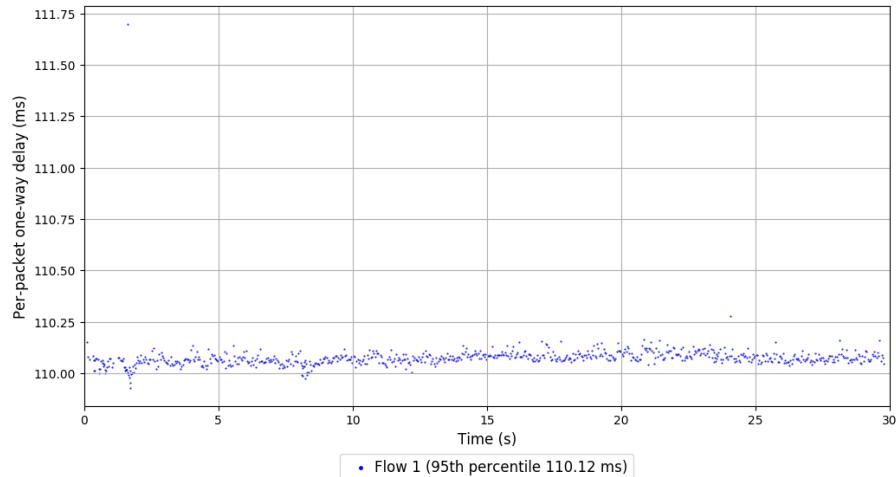
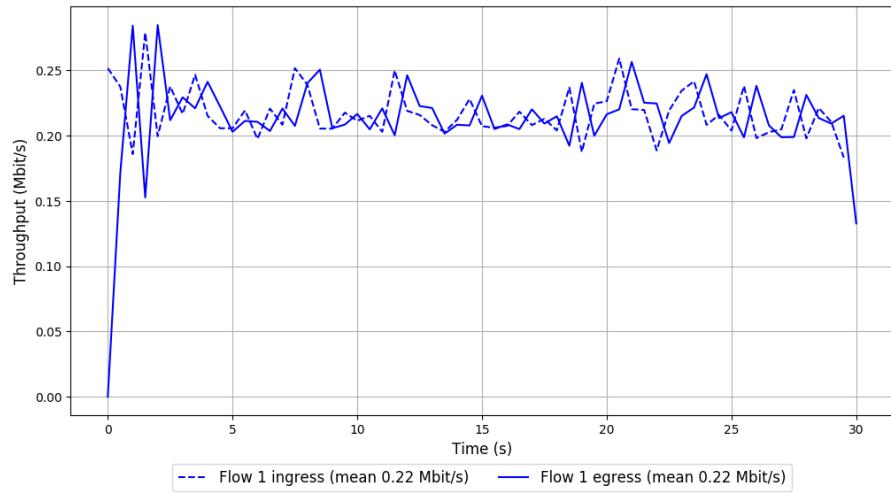


Run 4: Statistics of SCReAM

```
Start at: 2019-10-02 19:28:38
End at: 2019-10-02 19:29:08
Local clock offset: 5.692 ms
Remote clock offset: 7.907 ms

# Below is generated by plot.py at 2019-10-02 22:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.123 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.123 ms
Loss rate: 0.77%
```

Run 4: Report of SCReAM — Data Link

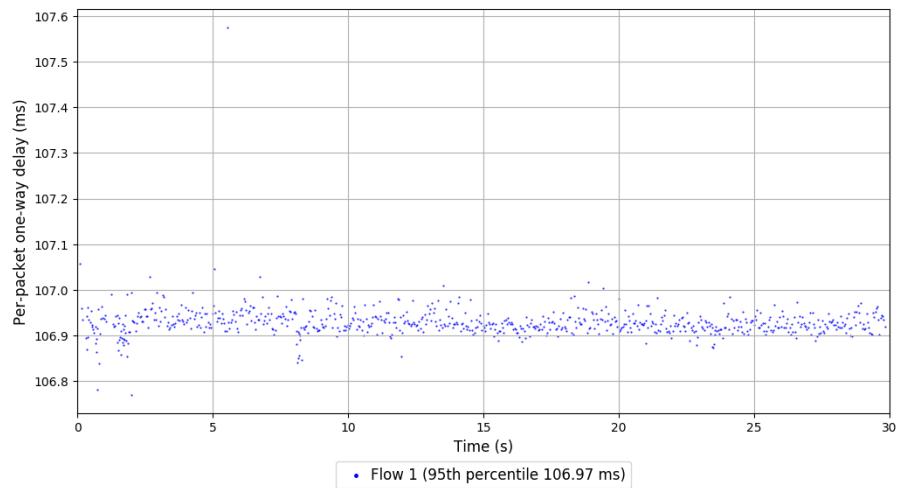
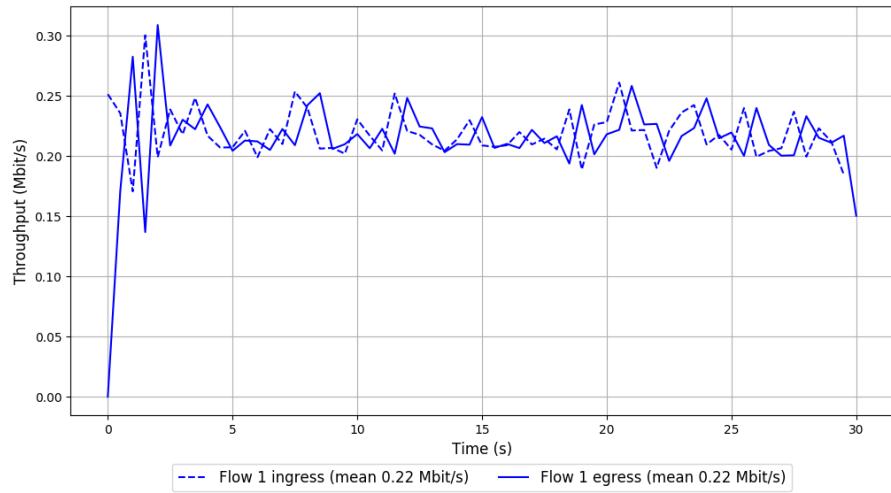


Run 5: Statistics of SCReAM

```
Start at: 2019-10-02 20:04:14
End at: 2019-10-02 20:04:44
Local clock offset: 1.389 ms
Remote clock offset: 2.149 ms

# Below is generated by plot.py at 2019-10-02 22:24:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.971 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.971 ms
Loss rate: 0.64%
```

Run 5: Report of SCReAM — Data Link

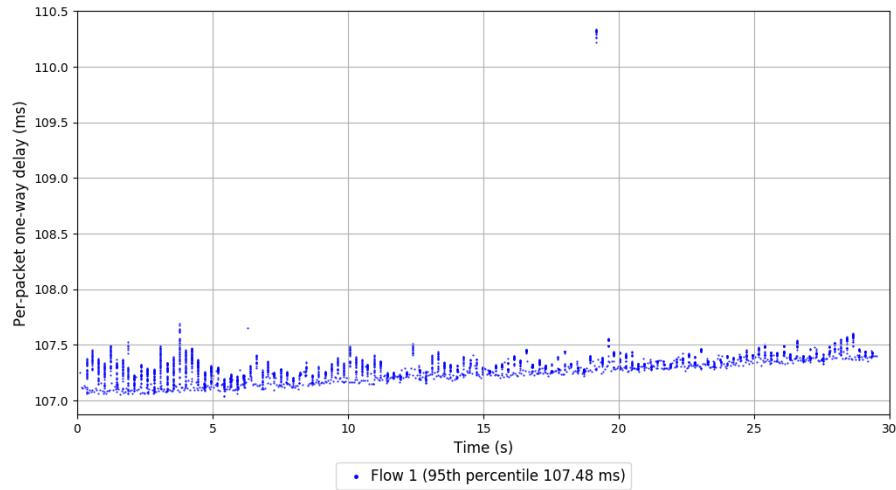
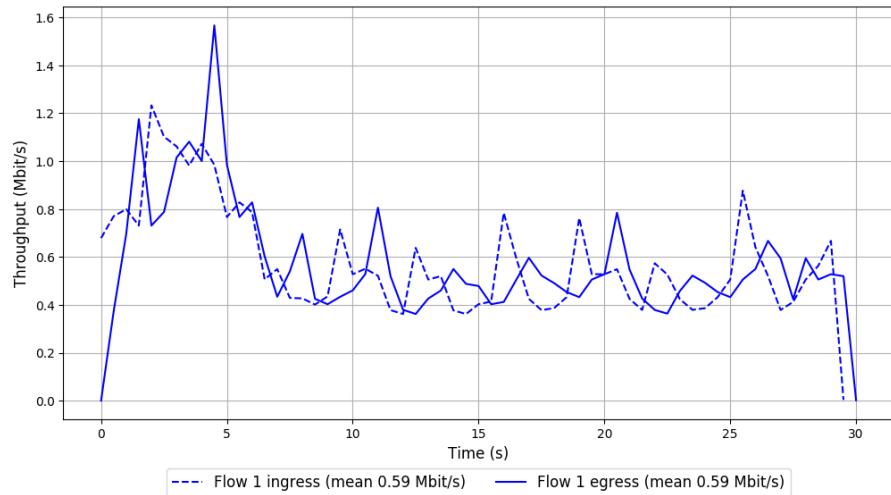


Run 1: Statistics of Sprout

```
Start at: 2019-10-02 17:30:49
End at: 2019-10-02 17:31:19
Local clock offset: 5.287 ms
Remote clock offset: 7.451 ms

# Below is generated by plot.py at 2019-10-02 22:24:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 107.479 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 107.479 ms
Loss rate: 0.54%
```

Run 1: Report of Sprout — Data Link

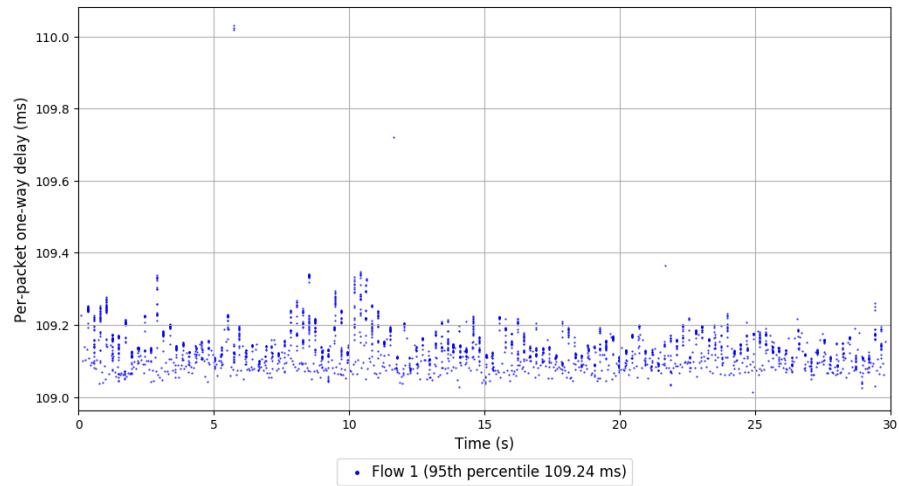
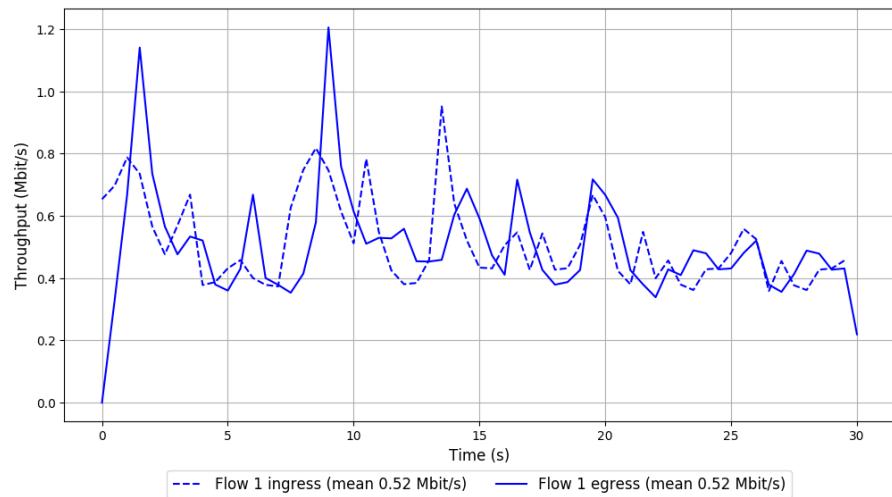


Run 2: Statistics of Sprout

```
Start at: 2019-10-02 18:06:56
End at: 2019-10-02 18:07:26
Local clock offset: 14.723 ms
Remote clock offset: 20.546 ms

# Below is generated by plot.py at 2019-10-02 22:24:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 109.241 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 109.241 ms
Loss rate: 0.78%
```

Run 2: Report of Sprout — Data Link

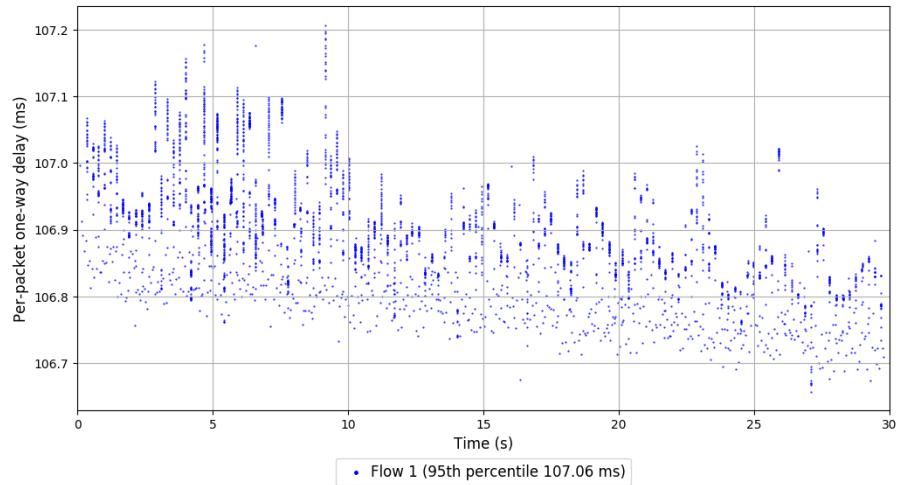
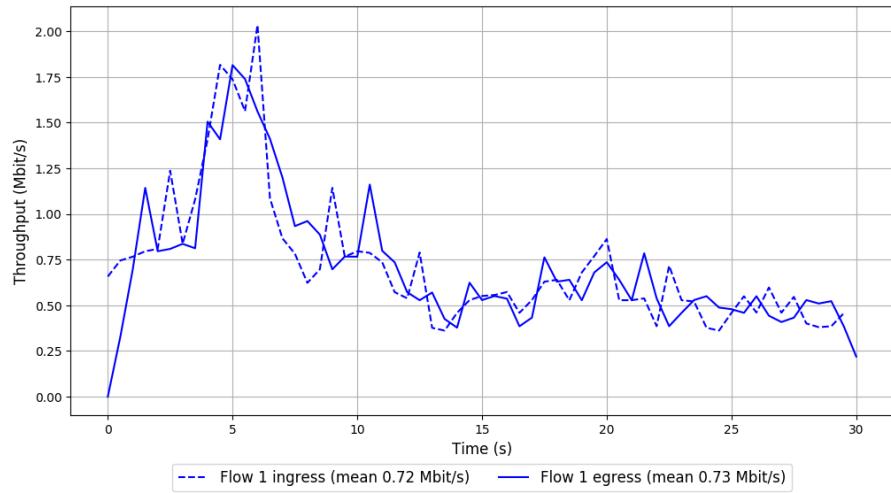


Run 3: Statistics of Sprout

```
Start at: 2019-10-02 18:43:17
End at: 2019-10-02 18:43:47
Local clock offset: 13.214 ms
Remote clock offset: 18.182 ms

# Below is generated by plot.py at 2019-10-02 22:24:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 107.064 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 107.064 ms
Loss rate: 0.55%
```

Run 3: Report of Sprout — Data Link

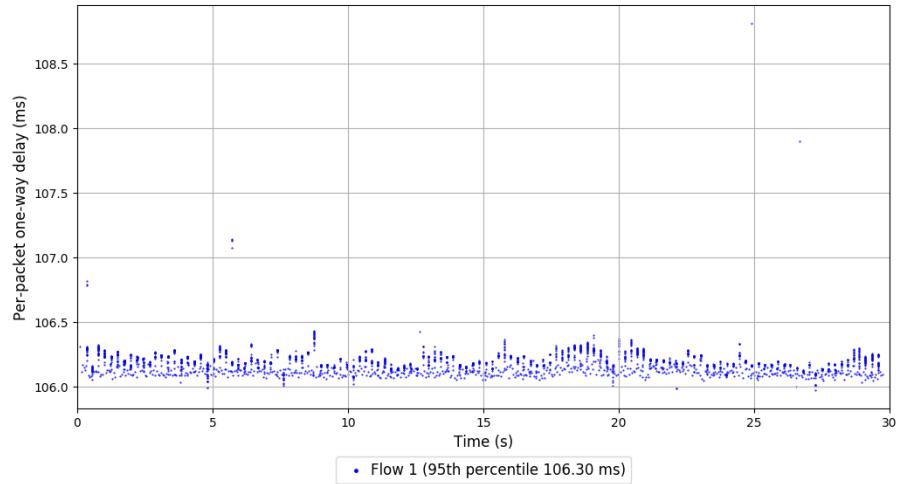
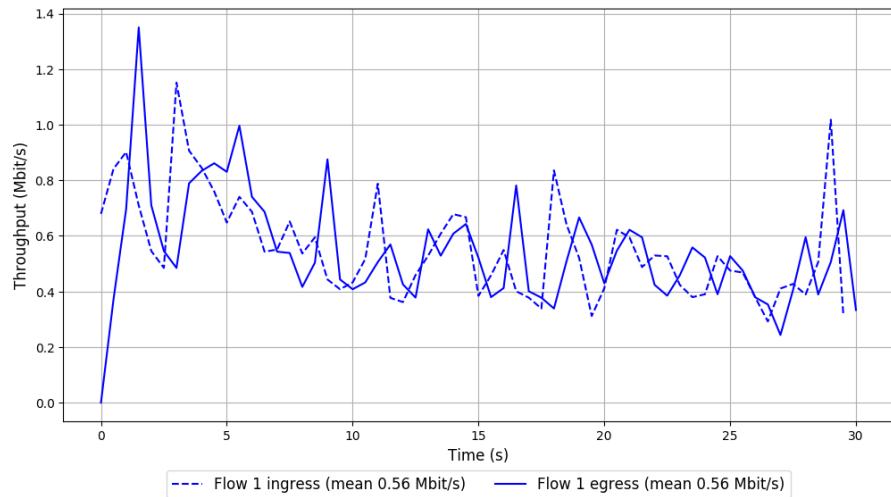


Run 4: Statistics of Sprout

```
Start at: 2019-10-02 19:19:43
End at: 2019-10-02 19:20:13
Local clock offset: 5.978 ms
Remote clock offset: 8.317 ms

# Below is generated by plot.py at 2019-10-02 22:24:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 106.298 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 106.298 ms
Loss rate: 0.92%
```

Run 4: Report of Sprout — Data Link

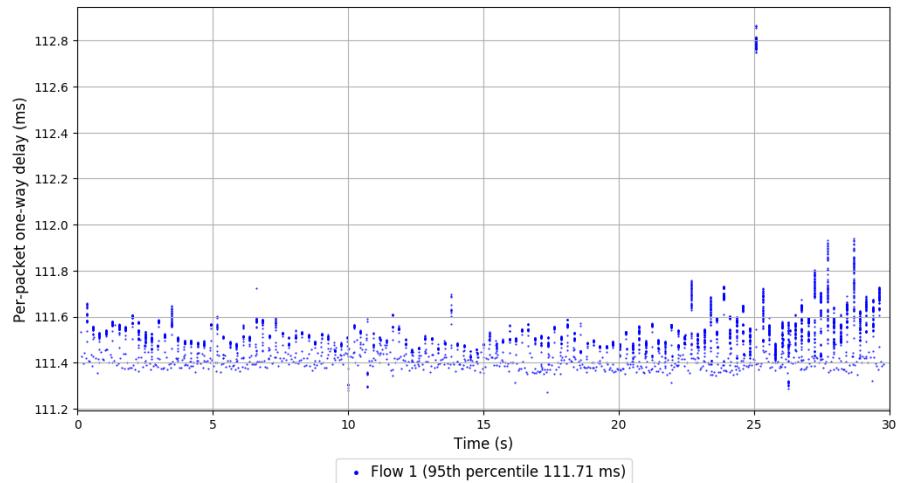
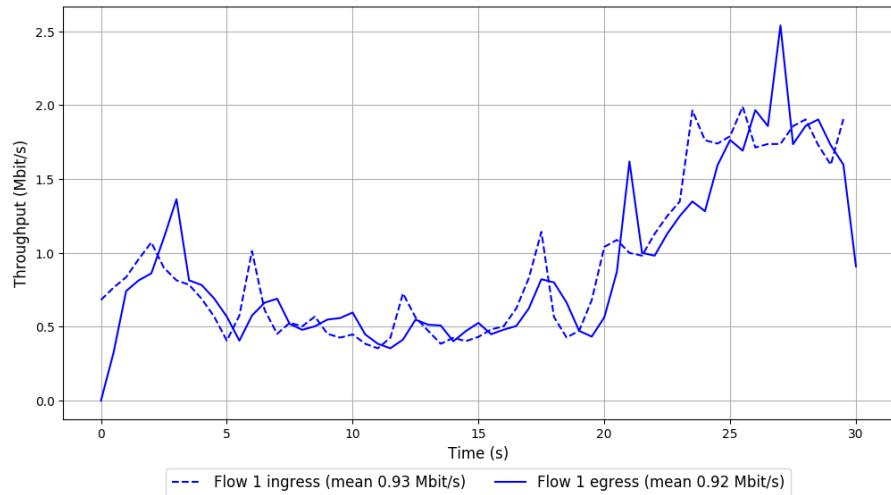


Run 5: Statistics of Sprout

```
Start at: 2019-10-02 19:55:10
End at: 2019-10-02 19:55:40
Local clock offset: 2.01 ms
Remote clock offset: 2.79 ms

# Below is generated by plot.py at 2019-10-02 22:24:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 111.707 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 111.707 ms
Loss rate: 1.80%
```

Run 5: Report of Sprout — Data Link

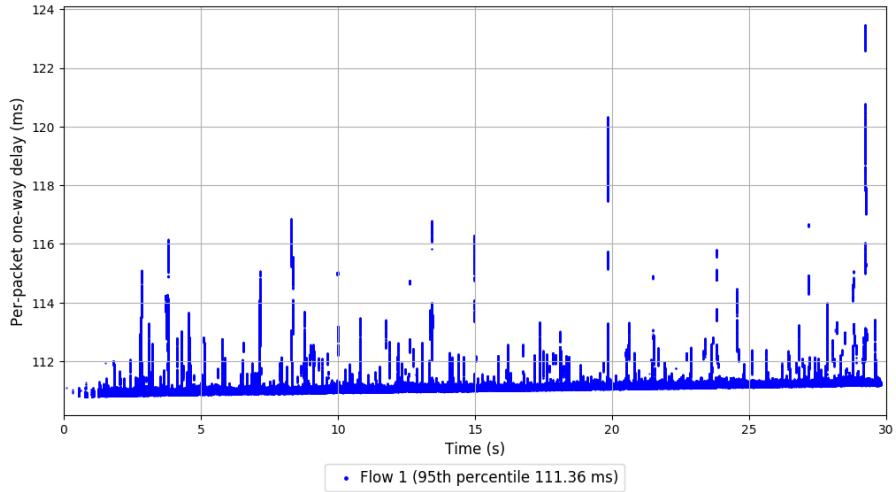
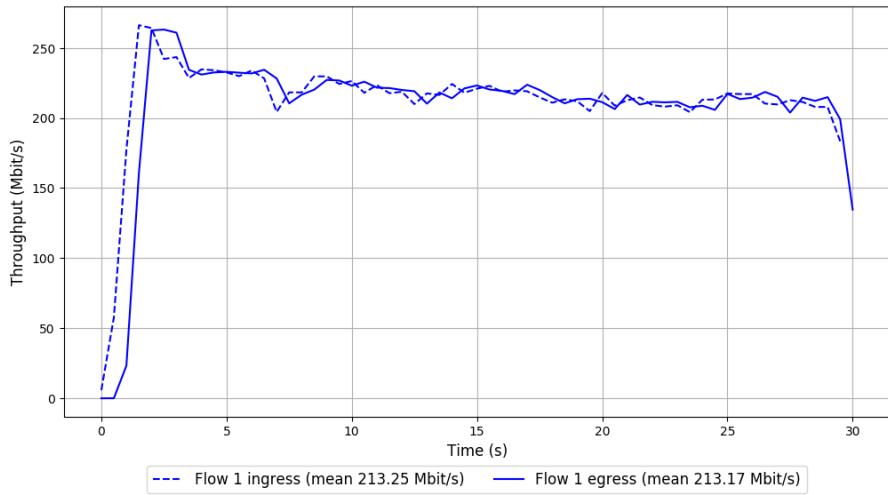


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-10-02 17:31:59
End at: 2019-10-02 17:32:29
Local clock offset: 6.511 ms
Remote clock offset: 9.987 ms

# Below is generated by plot.py at 2019-10-02 22:28:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.17 Mbit/s
95th percentile per-packet one-way delay: 111.355 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 213.17 Mbit/s
95th percentile per-packet one-way delay: 111.355 ms
Loss rate: 0.77%
```

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

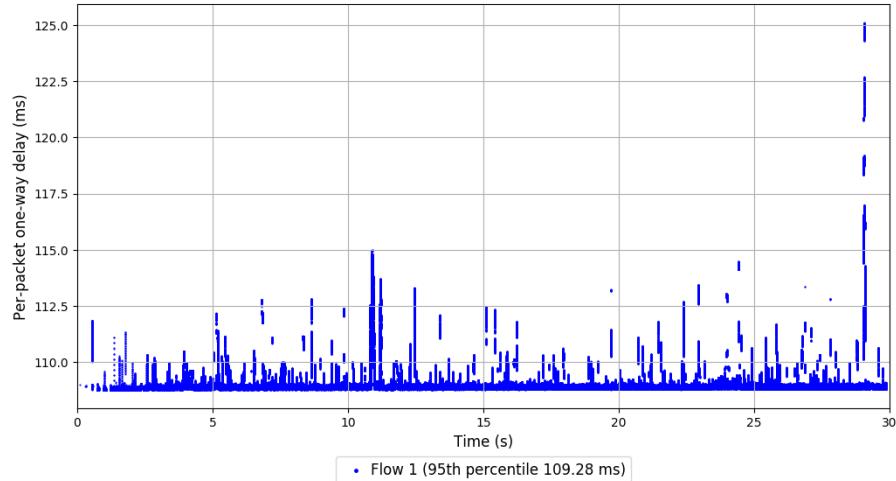
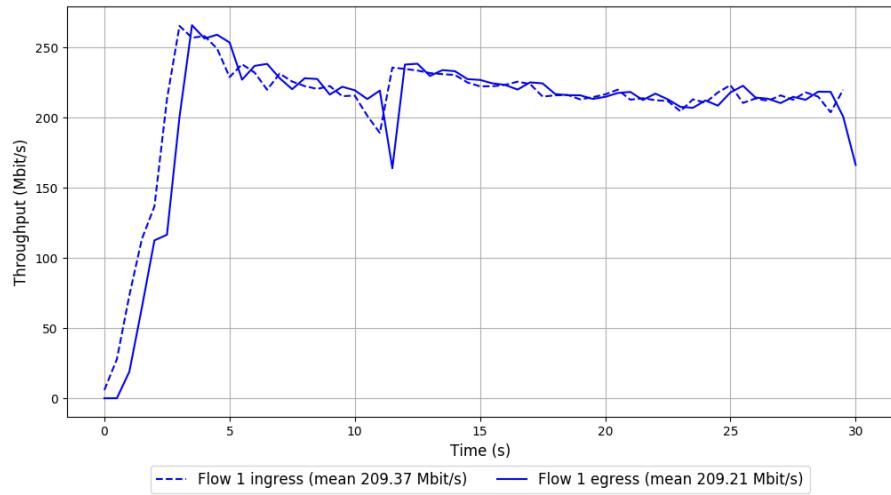


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-10-02 18:08:06
End at: 2019-10-02 18:08:36
Local clock offset: 14.636 ms
Remote clock offset: 20.614 ms

# Below is generated by plot.py at 2019-10-02 22:28:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.21 Mbit/s
95th percentile per-packet one-way delay: 109.276 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 209.21 Mbit/s
95th percentile per-packet one-way delay: 109.276 ms
Loss rate: 0.80%
```

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

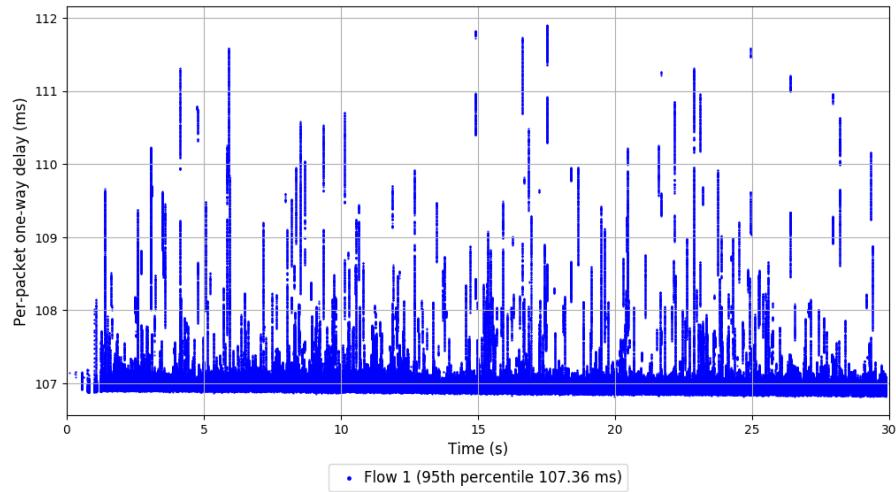
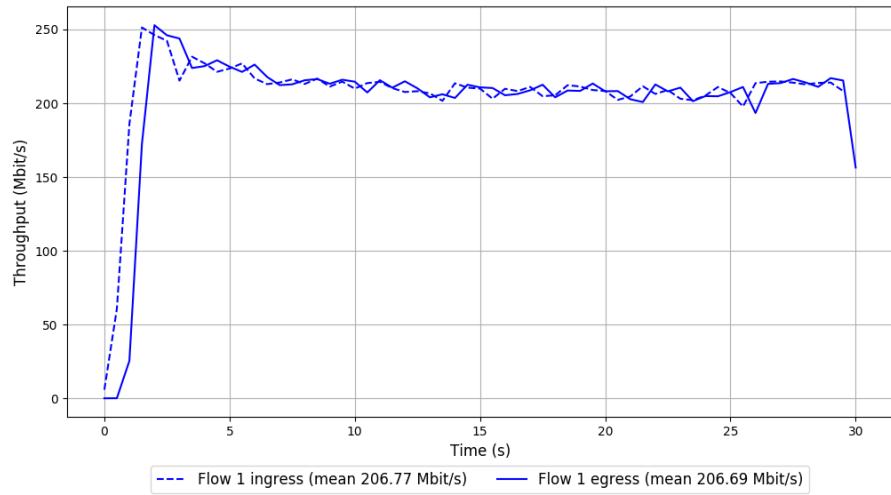


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-10-02 18:44:27
End at: 2019-10-02 18:44:57
Local clock offset: 12.627 ms
Remote clock offset: 17.421 ms

# Below is generated by plot.py at 2019-10-02 22:28:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.69 Mbit/s
95th percentile per-packet one-way delay: 107.362 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 206.69 Mbit/s
95th percentile per-packet one-way delay: 107.362 ms
Loss rate: 0.76%
```

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

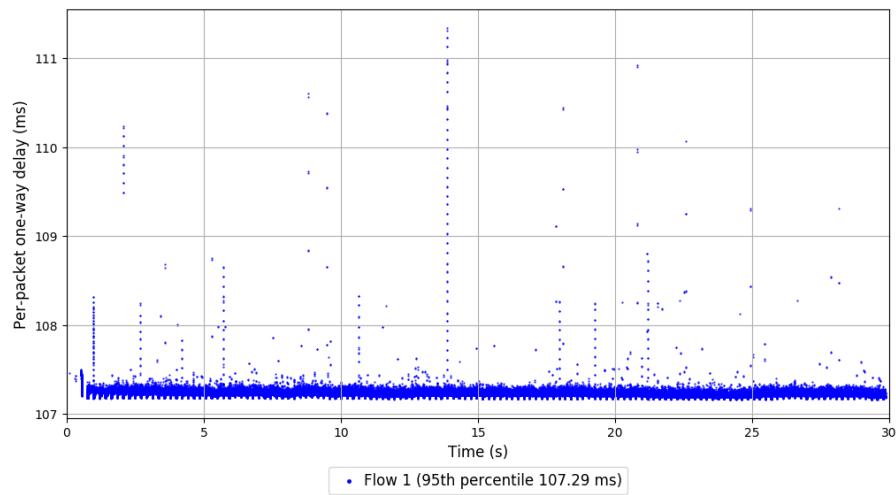
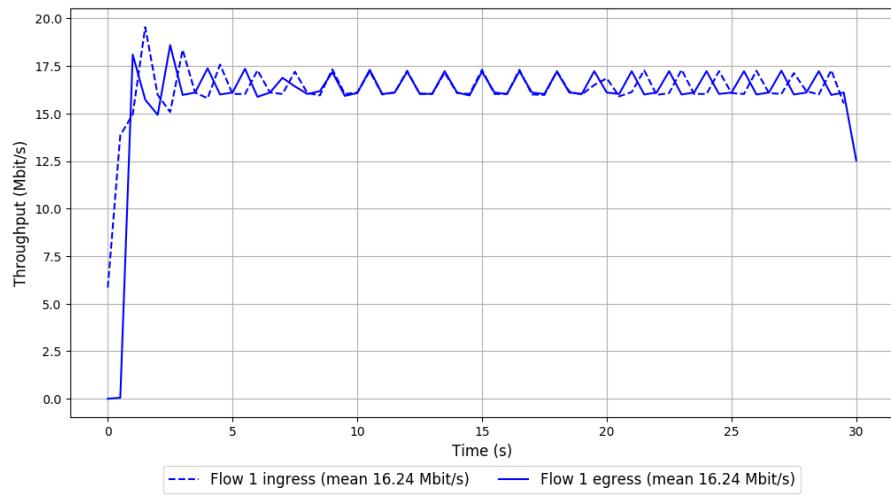


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-10-02 19:20:53
End at: 2019-10-02 19:21:23
Local clock offset: 5.724 ms
Remote clock offset: 7.68 ms

# Below is generated by plot.py at 2019-10-02 22:28:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.24 Mbit/s
95th percentile per-packet one-way delay: 107.289 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 16.24 Mbit/s
95th percentile per-packet one-way delay: 107.289 ms
Loss rate: 0.73%
```

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

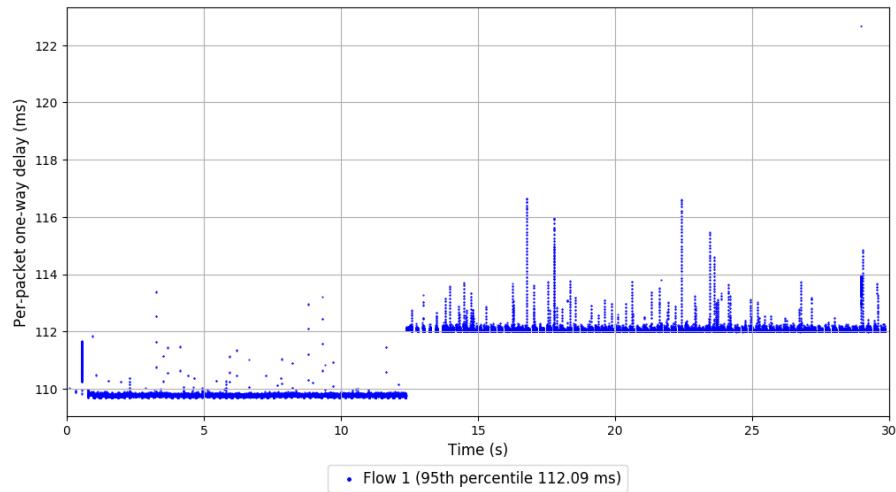
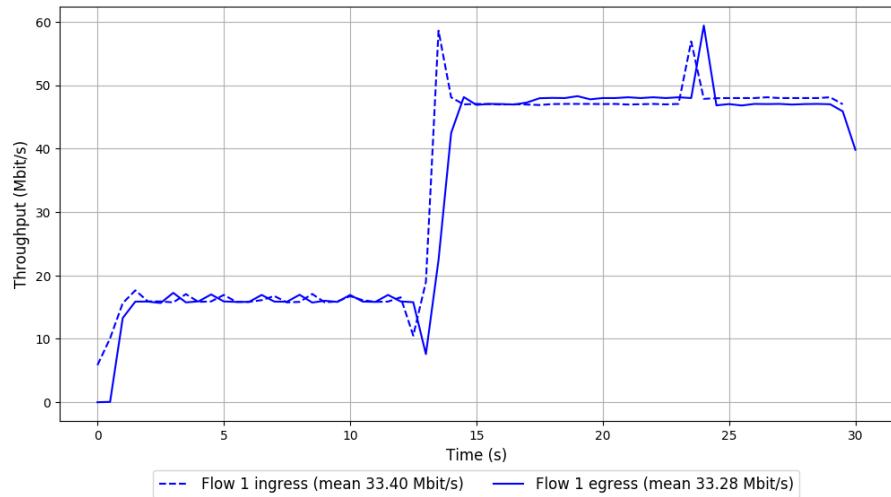


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-10-02 19:56:20
End at: 2019-10-02 19:56:50
Local clock offset: 1.732 ms
Remote clock offset: 2.632 ms

# Below is generated by plot.py at 2019-10-02 22:28:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.28 Mbit/s
95th percentile per-packet one-way delay: 112.088 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 33.28 Mbit/s
95th percentile per-packet one-way delay: 112.088 ms
Loss rate: 1.14%
```

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

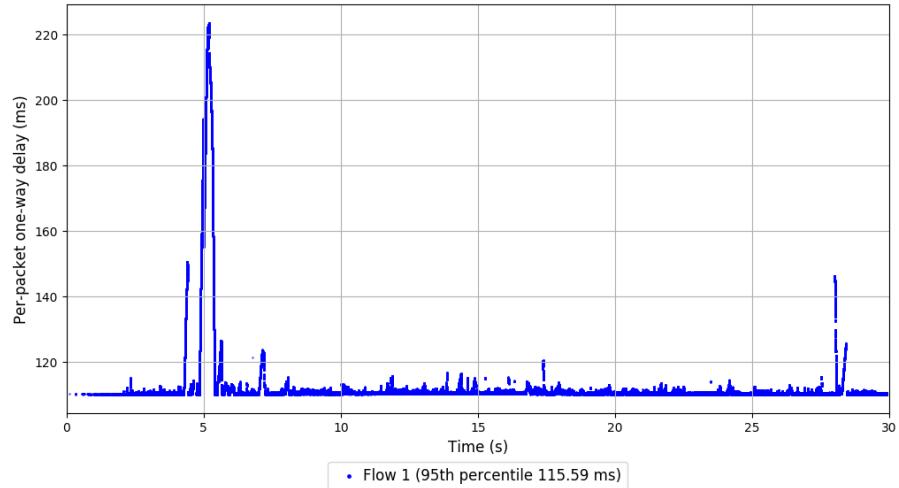
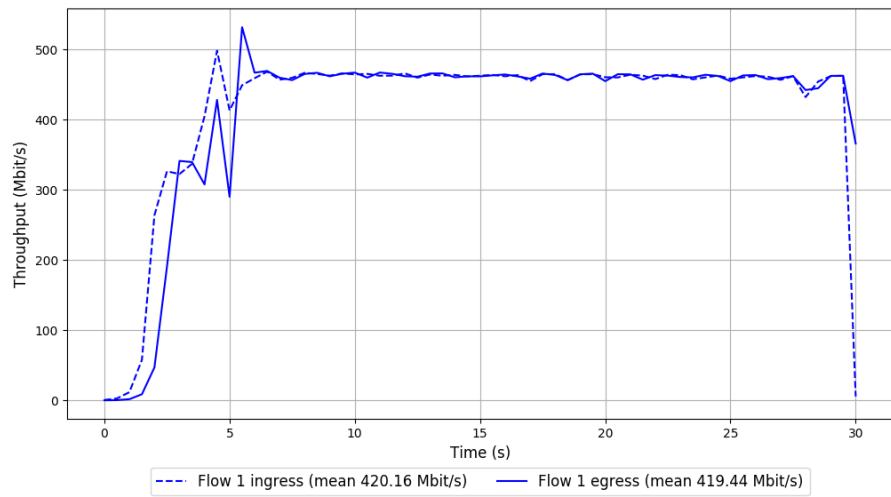


Run 1: Statistics of TCP Vegas

```
Start at: 2019-10-02 17:40:56
End at: 2019-10-02 17:41:26
Local clock offset: 12.782 ms
Remote clock offset: 17.523 ms

# Below is generated by plot.py at 2019-10-02 22:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 419.44 Mbit/s
95th percentile per-packet one-way delay: 115.587 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 419.44 Mbit/s
95th percentile per-packet one-way delay: 115.587 ms
Loss rate: 0.89%
```

Run 1: Report of TCP Vegas — Data Link

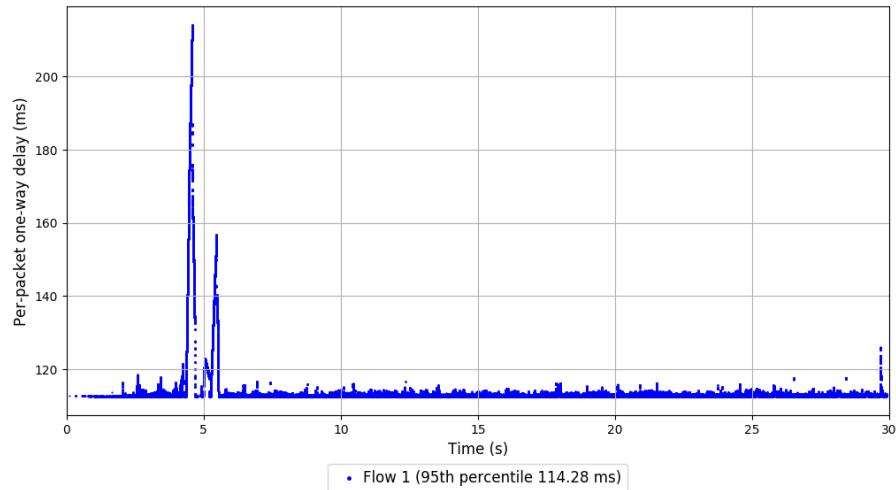
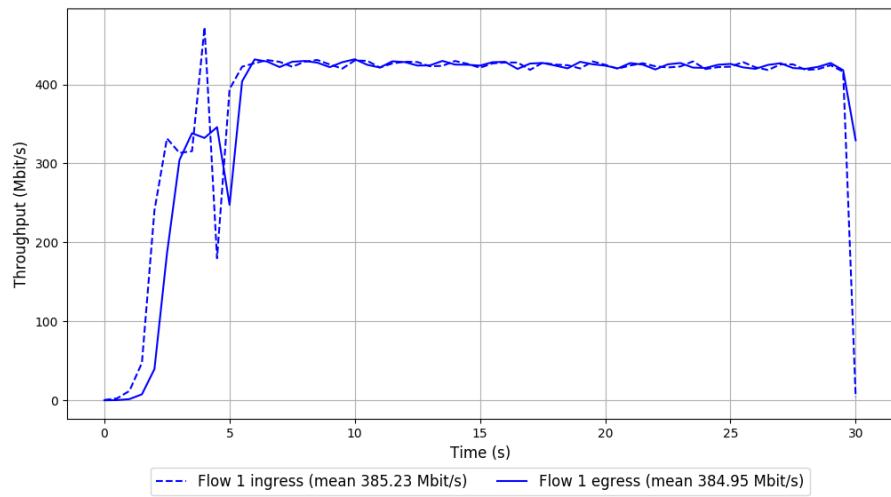


Run 2: Statistics of TCP Vegas

```
Start at: 2019-10-02 18:17:23
End at: 2019-10-02 18:17:53
Local clock offset: 18.362 ms
Remote clock offset: 25.776 ms

# Below is generated by plot.py at 2019-10-02 22:30:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.95 Mbit/s
95th percentile per-packet one-way delay: 114.281 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 384.95 Mbit/s
95th percentile per-packet one-way delay: 114.281 ms
Loss rate: 0.80%
```

Run 2: Report of TCP Vegas — Data Link

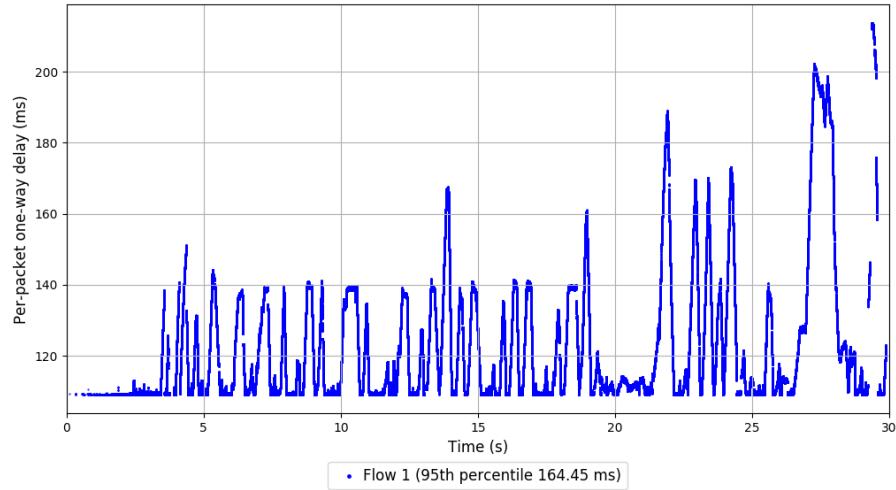
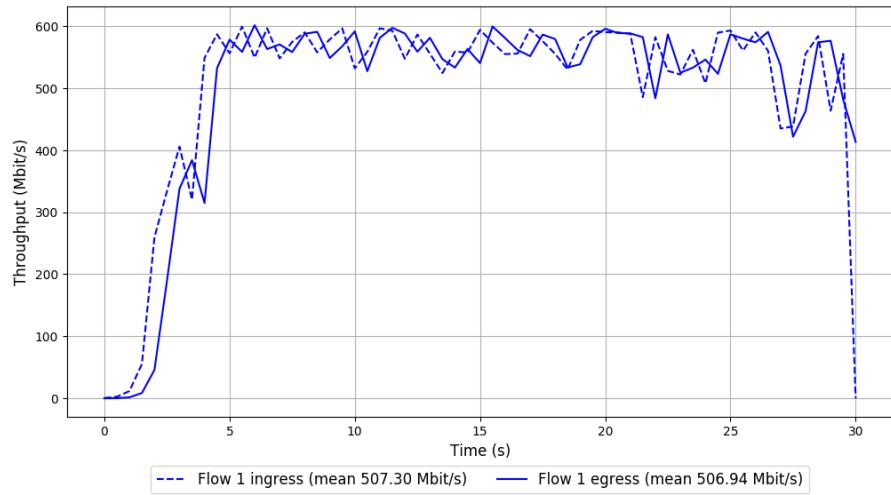


Run 3: Statistics of TCP Vegas

```
Start at: 2019-10-02 18:53:46
End at: 2019-10-02 18:54:16
Local clock offset: 10.918 ms
Remote clock offset: 16.011 ms

# Below is generated by plot.py at 2019-10-02 22:34:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 506.94 Mbit/s
95th percentile per-packet one-way delay: 164.446 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 506.94 Mbit/s
95th percentile per-packet one-way delay: 164.446 ms
Loss rate: 0.84%
```

Run 3: Report of TCP Vegas — Data Link

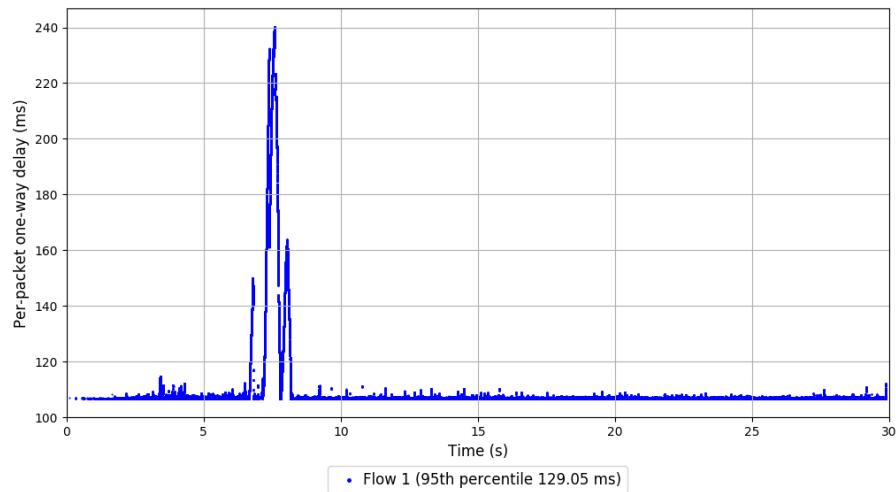
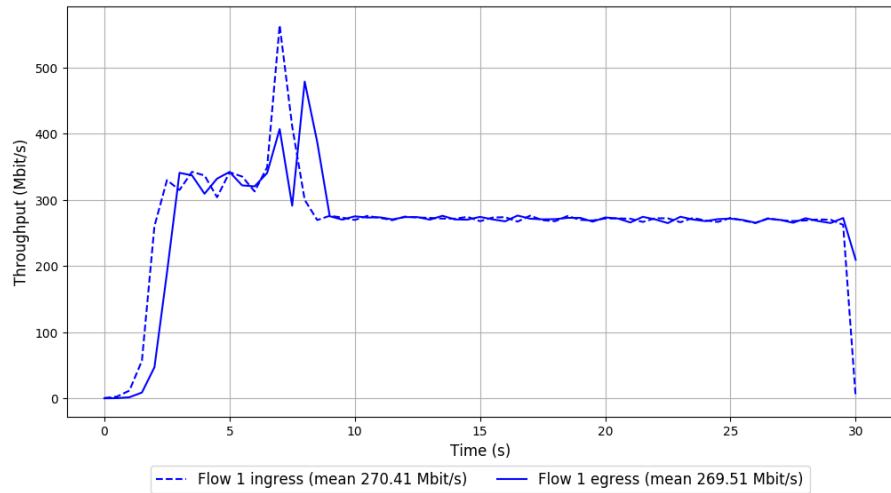


Run 4: Statistics of TCP Vegas

```
Start at: 2019-10-02 19:29:47
End at: 2019-10-02 19:30:17
Local clock offset: 5.686 ms
Remote clock offset: 8.039 ms

# Below is generated by plot.py at 2019-10-02 22:34:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 269.51 Mbit/s
95th percentile per-packet one-way delay: 129.050 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 269.51 Mbit/s
95th percentile per-packet one-way delay: 129.050 ms
Loss rate: 1.05%
```

Run 4: Report of TCP Vegas — Data Link

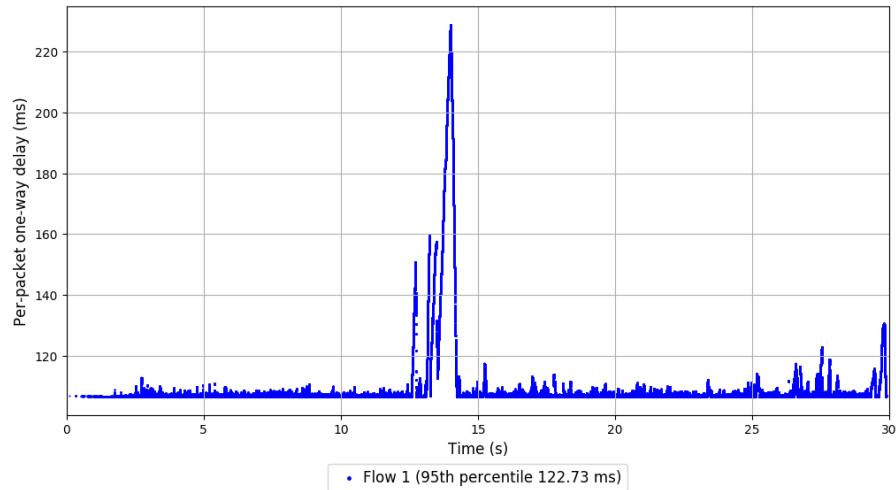
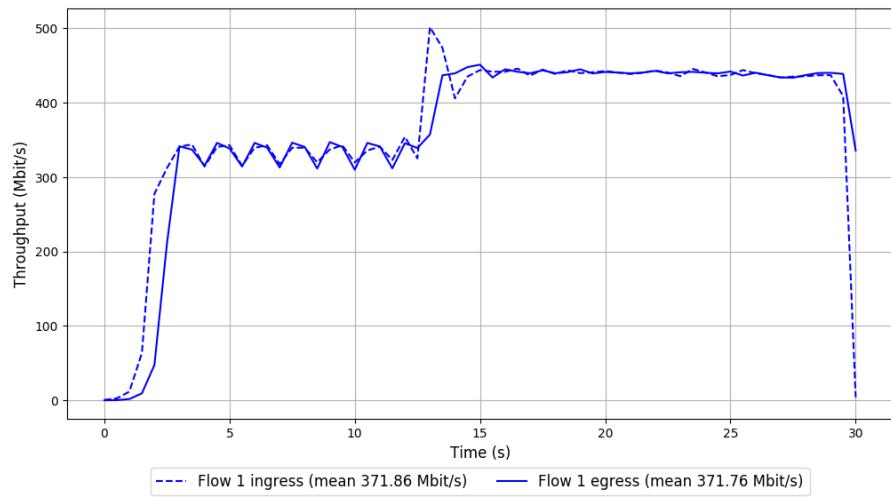


Run 5: Statistics of TCP Vegas

```
Start at: 2019-10-02 20:05:23
End at: 2019-10-02 20:05:53
Local clock offset: 1.399 ms
Remote clock offset: 2.156 ms

# Below is generated by plot.py at 2019-10-02 22:34:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 371.76 Mbit/s
95th percentile per-packet one-way delay: 122.730 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 371.76 Mbit/s
95th percentile per-packet one-way delay: 122.730 ms
Loss rate: 0.75%
```

Run 5: Report of TCP Vegas — Data Link

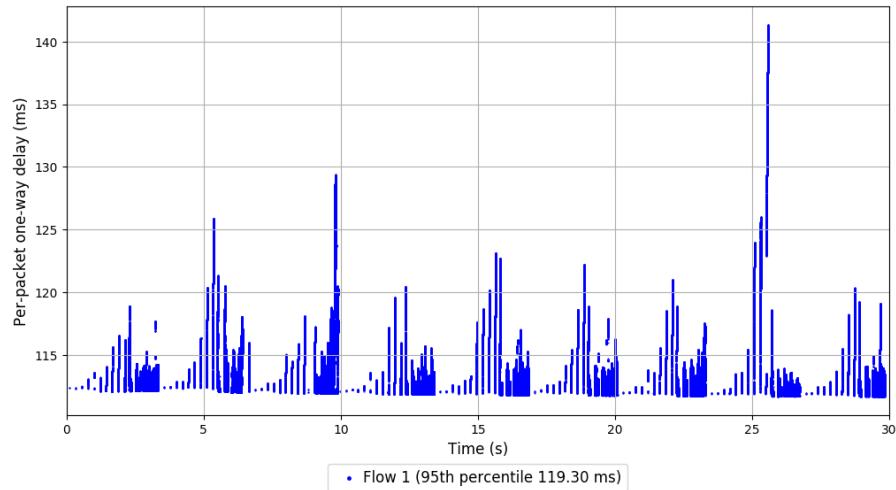
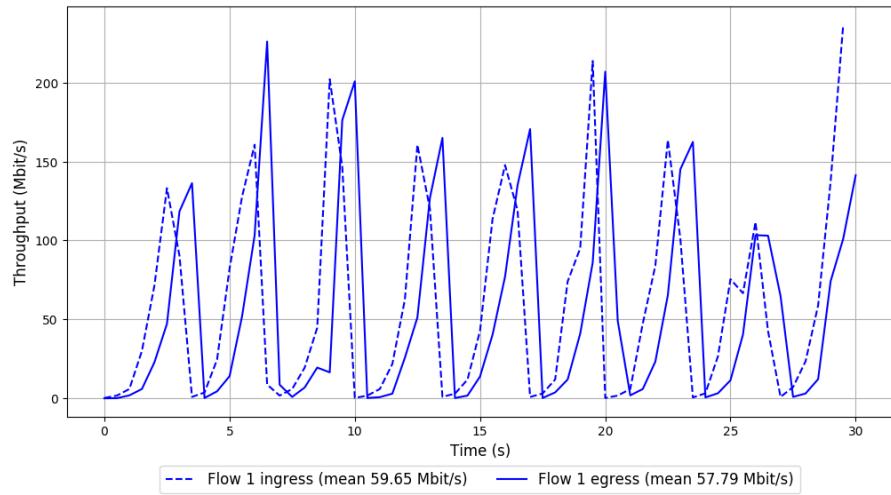


Run 1: Statistics of Verus

```
Start at: 2019-10-02 17:26:10
End at: 2019-10-02 17:26:40
Local clock offset: 2.14 ms
Remote clock offset: 4.047 ms

# Below is generated by plot.py at 2019-10-02 22:34:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.79 Mbit/s
95th percentile per-packet one-way delay: 119.303 ms
Loss rate: 3.69%
-- Flow 1:
Average throughput: 57.79 Mbit/s
95th percentile per-packet one-way delay: 119.303 ms
Loss rate: 3.69%
```

Run 1: Report of Verus — Data Link

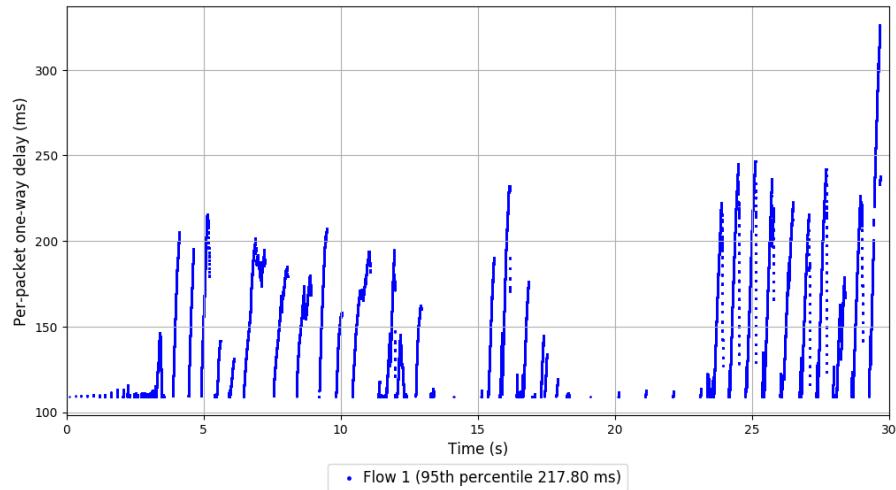
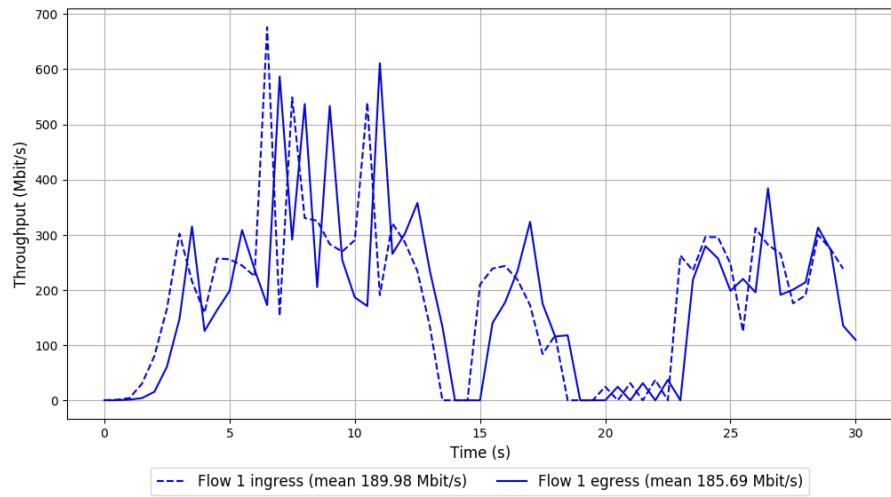


Run 2: Statistics of Verus

```
Start at: 2019-10-02 18:02:04
End at: 2019-10-02 18:02:34
Local clock offset: 16.51 ms
Remote clock offset: 22.766 ms

# Below is generated by plot.py at 2019-10-02 22:34:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.69 Mbit/s
95th percentile per-packet one-way delay: 217.802 ms
Loss rate: 3.62%
-- Flow 1:
Average throughput: 185.69 Mbit/s
95th percentile per-packet one-way delay: 217.802 ms
Loss rate: 3.62%
```

Run 2: Report of Verus — Data Link

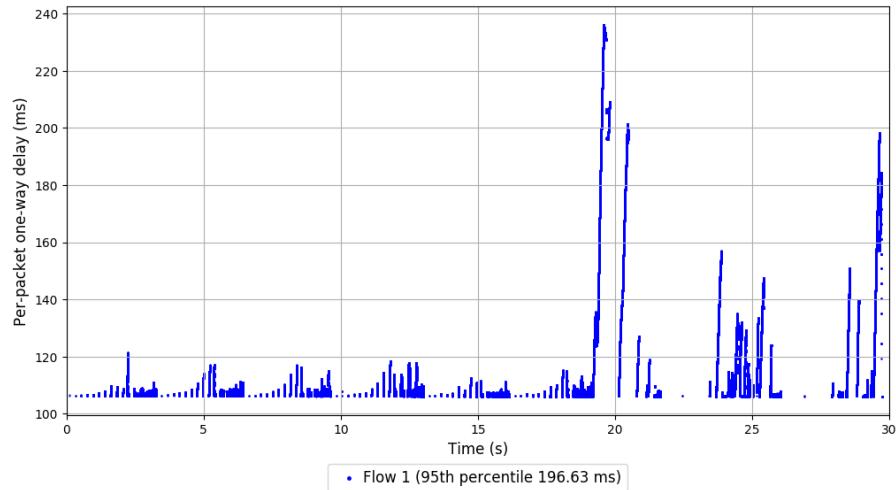
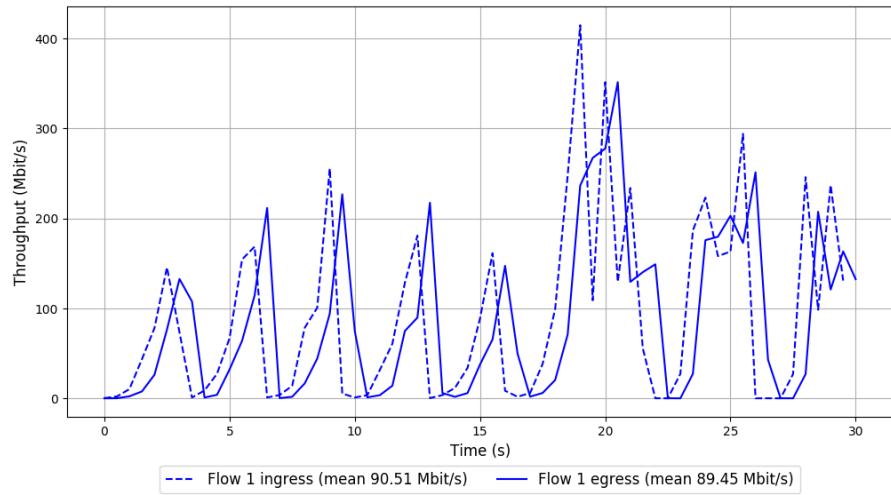


Run 3: Statistics of Verus

```
Start at: 2019-10-02 18:38:35
End at: 2019-10-02 18:39:05
Local clock offset: 17.653 ms
Remote clock offset: 24.127 ms

# Below is generated by plot.py at 2019-10-02 22:34:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.45 Mbit/s
95th percentile per-packet one-way delay: 196.632 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 89.45 Mbit/s
95th percentile per-packet one-way delay: 196.632 ms
Loss rate: 2.29%
```

Run 3: Report of Verus — Data Link

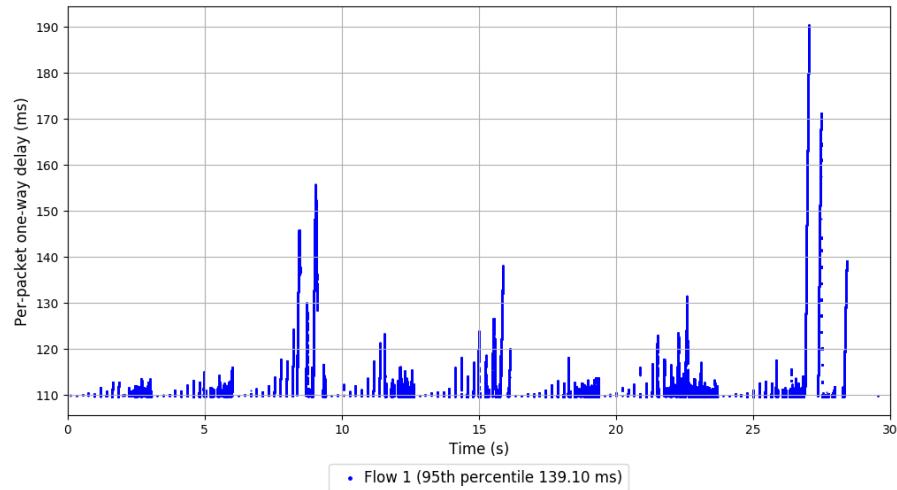
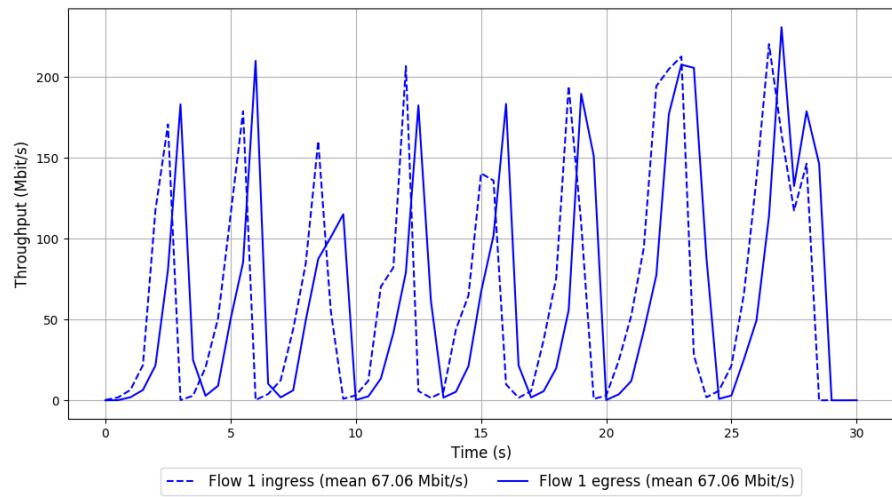


Run 4: Statistics of Verus

```
Start at: 2019-10-02 19:15:00
End at: 2019-10-02 19:15:30
Local clock offset: 7.476 ms
Remote clock offset: 10.388 ms

# Below is generated by plot.py at 2019-10-02 22:34:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.06 Mbit/s
95th percentile per-packet one-way delay: 139.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.06 Mbit/s
95th percentile per-packet one-way delay: 139.097 ms
Loss rate: 0.00%
```

Run 4: Report of Verus — Data Link

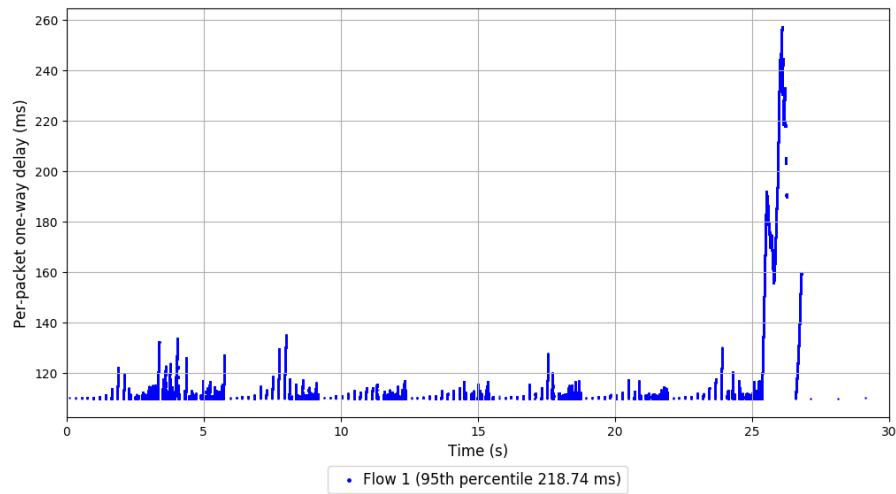
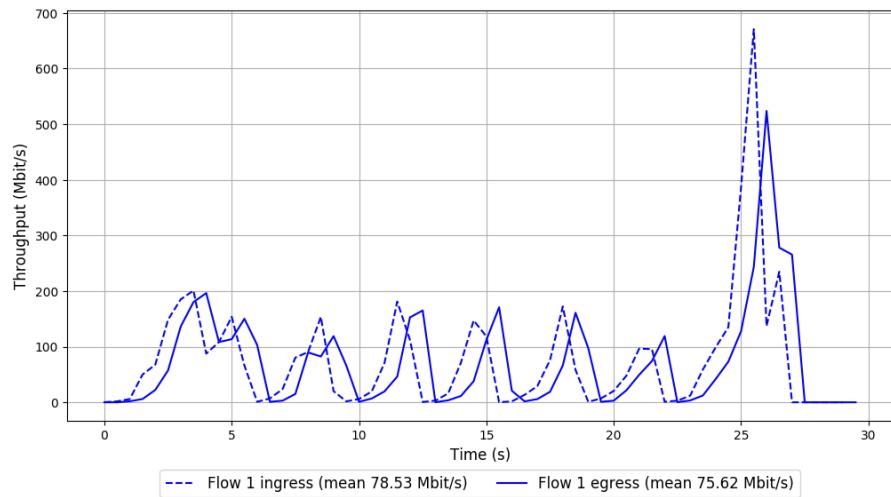


Run 5: Statistics of Verus

```
Start at: 2019-10-02 19:50:41
End at: 2019-10-02 19:51:11
Local clock offset: 2.759 ms
Remote clock offset: 3.821 ms

# Below is generated by plot.py at 2019-10-02 22:34:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.62 Mbit/s
95th percentile per-packet one-way delay: 218.740 ms
Loss rate: 3.70%
-- Flow 1:
Average throughput: 75.62 Mbit/s
95th percentile per-packet one-way delay: 218.740 ms
Loss rate: 3.70%
```

Run 5: Report of Verus — Data Link

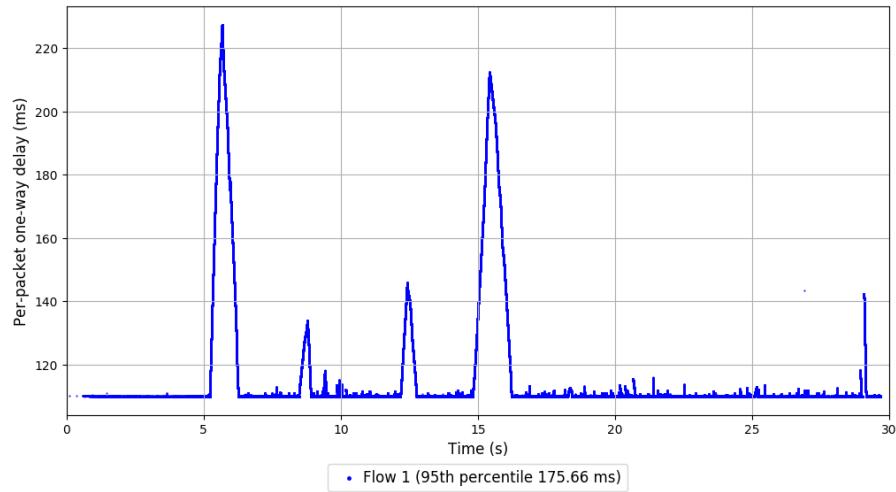
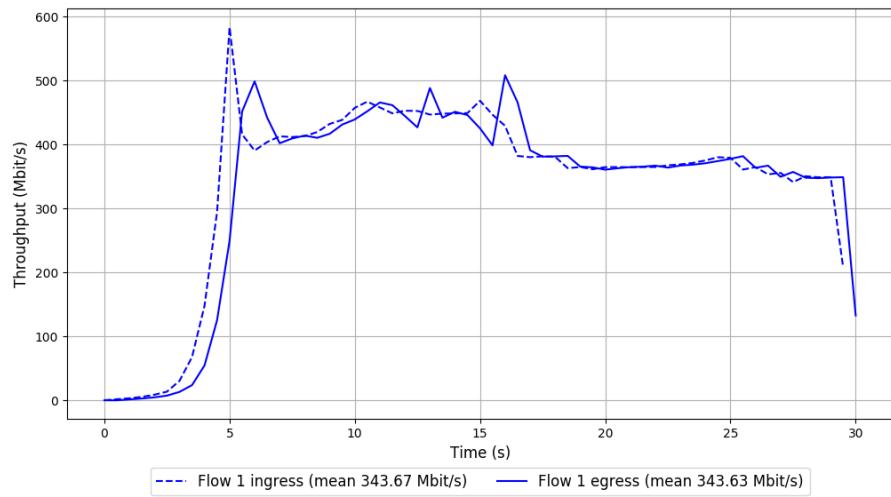


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-10-02 17:44:01
End at: 2019-10-02 17:44:31
Local clock offset: 10.595 ms
Remote clock offset: 14.485 ms

# Below is generated by plot.py at 2019-10-02 22:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.63 Mbit/s
95th percentile per-packet one-way delay: 175.659 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 343.63 Mbit/s
95th percentile per-packet one-way delay: 175.659 ms
Loss rate: 0.74%
```

Run 1: Report of PCC-Vivace — Data Link

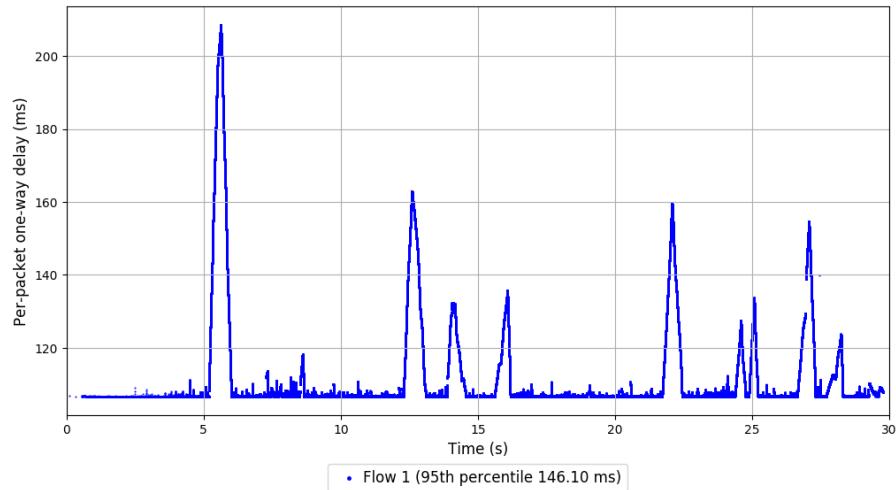
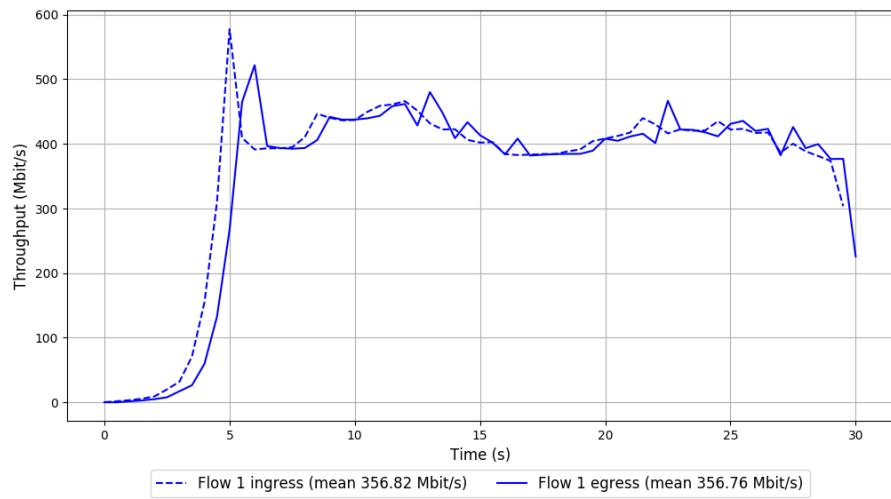


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-10-02 18:20:26
End at: 2019-10-02 18:20:56
Local clock offset: 20.341 ms
Remote clock offset: 28.513 ms

# Below is generated by plot.py at 2019-10-02 22:36:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.76 Mbit/s
95th percentile per-packet one-way delay: 146.096 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 356.76 Mbit/s
95th percentile per-packet one-way delay: 146.096 ms
Loss rate: 0.74%
```

Run 2: Report of PCC-Vivace — Data Link

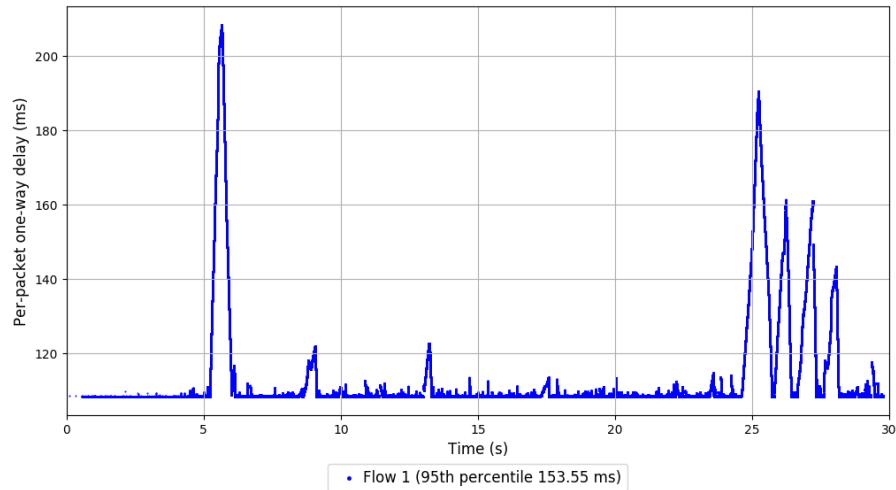
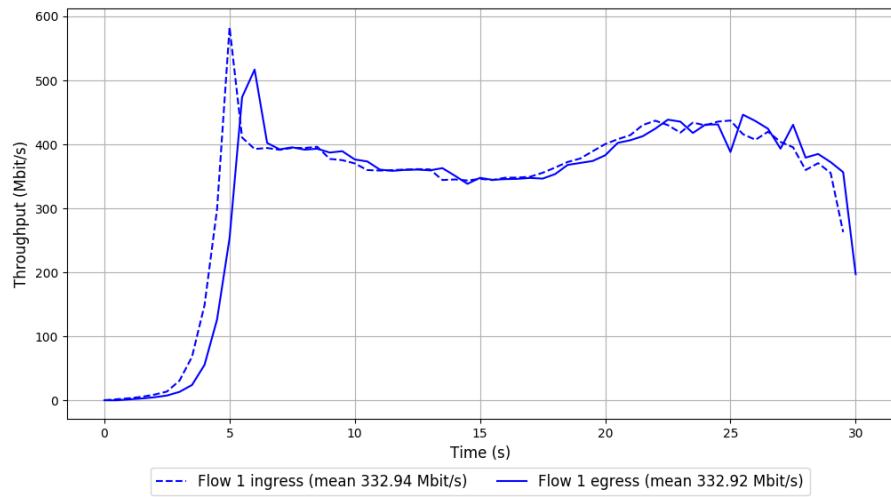


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-10-02 18:56:57
End at: 2019-10-02 18:57:27
Local clock offset: 12.194 ms
Remote clock offset: 16.885 ms

# Below is generated by plot.py at 2019-10-02 22:36:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.92 Mbit/s
95th percentile per-packet one-way delay: 153.546 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 332.92 Mbit/s
95th percentile per-packet one-way delay: 153.546 ms
Loss rate: 0.73%
```

Run 3: Report of PCC-Vivace — Data Link

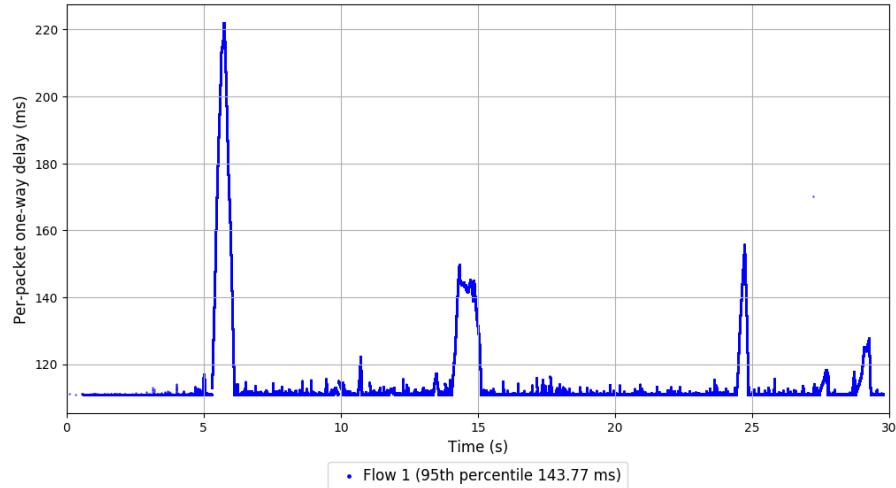
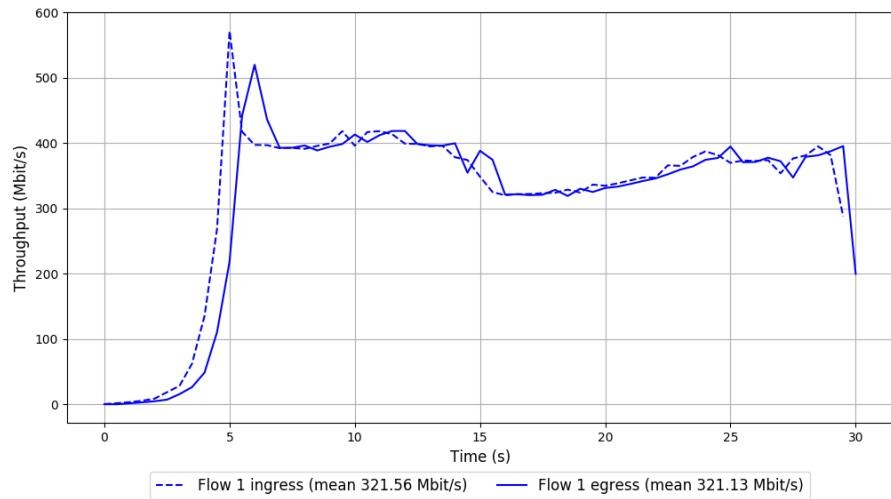


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-10-02 19:32:44
End at: 2019-10-02 19:33:14
Local clock offset: 4.735 ms
Remote clock offset: 8.414 ms

# Below is generated by plot.py at 2019-10-02 22:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 321.13 Mbit/s
95th percentile per-packet one-way delay: 143.767 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 321.13 Mbit/s
95th percentile per-packet one-way delay: 143.767 ms
Loss rate: 0.87%
```

Run 4: Report of PCC-Vivace — Data Link

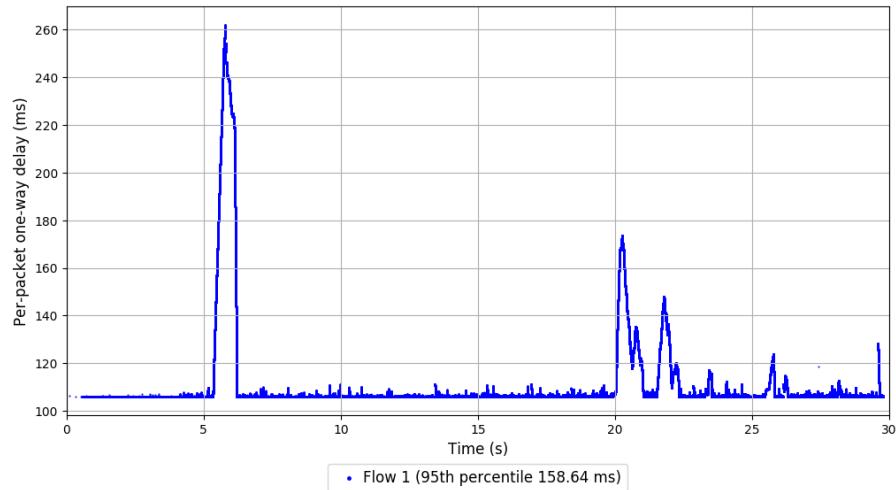
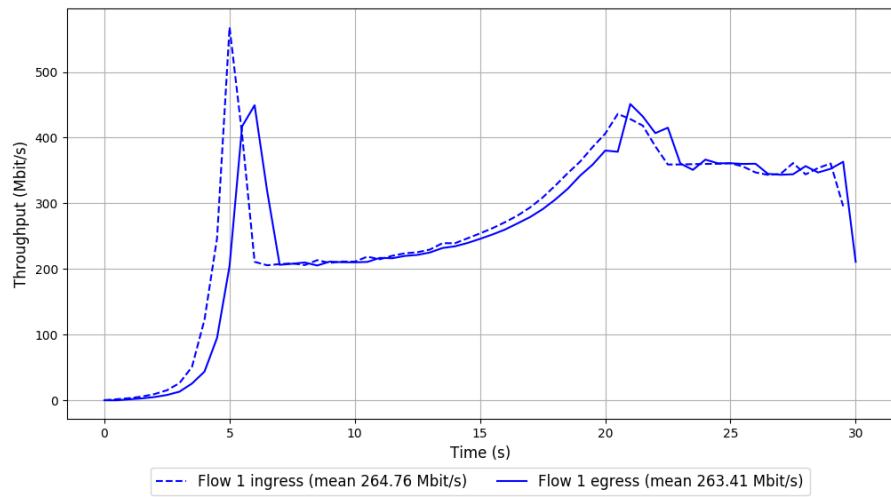


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-10-02 20:08:26
End at: 2019-10-02 20:08:56
Local clock offset: 1.477 ms
Remote clock offset: 2.133 ms

# Below is generated by plot.py at 2019-10-02 22:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 263.41 Mbit/s
95th percentile per-packet one-way delay: 158.637 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 263.41 Mbit/s
95th percentile per-packet one-way delay: 158.637 ms
Loss rate: 1.23%
```

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

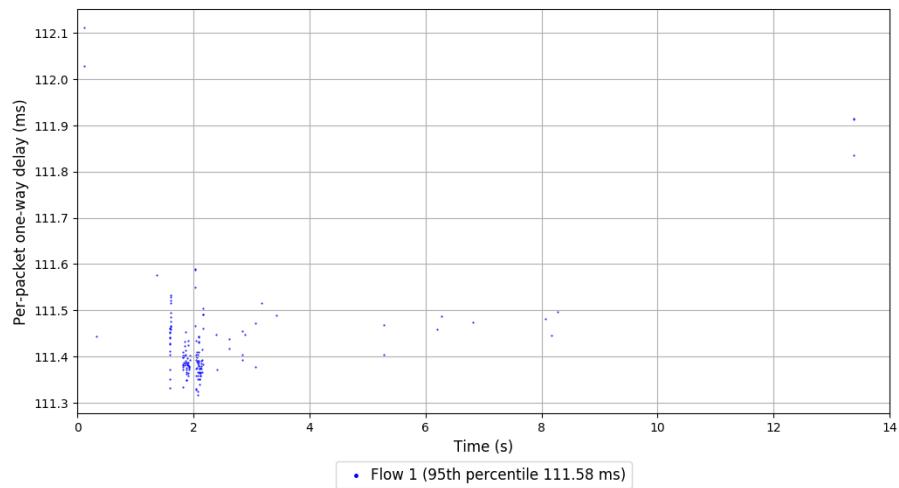
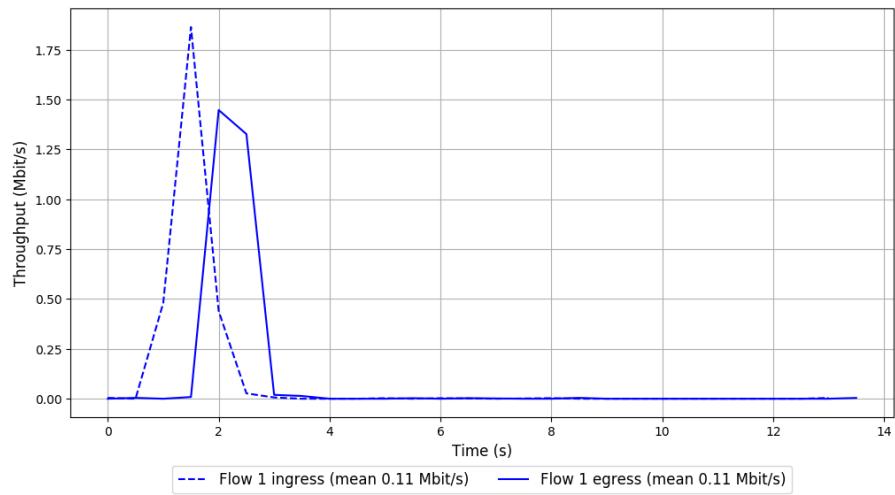
Start at: 2019-10-02 17:47:17

End at: 2019-10-02 17:47:47

Local clock offset: 10.108 ms

Remote clock offset: 14.201 ms

Run 1: Report of WebRTC media — Data Link

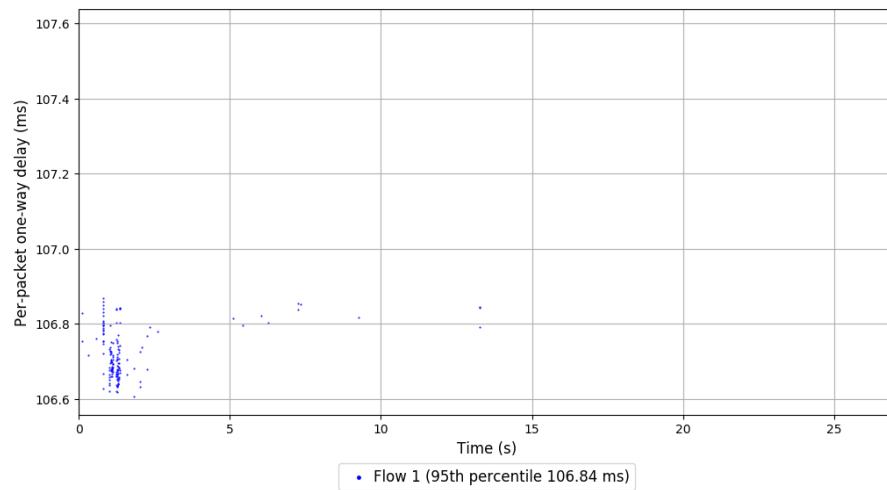
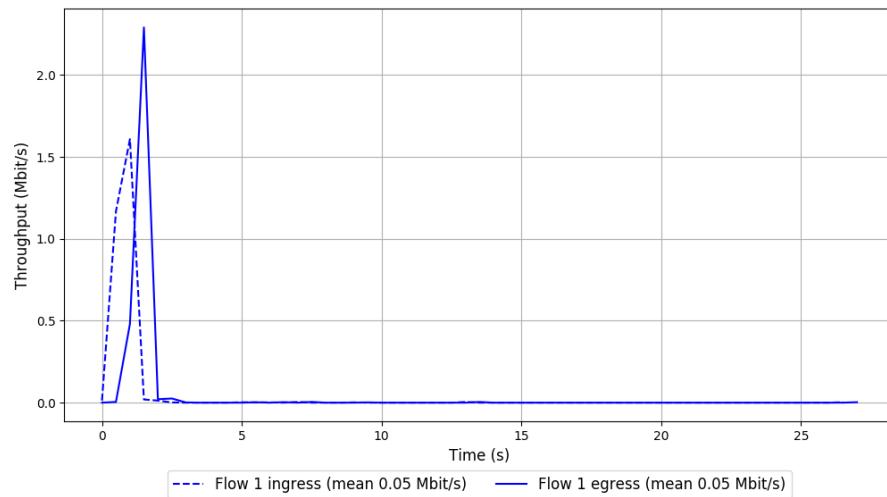


Run 2: Statistics of WebRTC media

```
Start at: 2019-10-02 18:23:41
End at: 2019-10-02 18:24:11
Local clock offset: 22.469 ms
Remote clock offset: 31.777 ms

# Below is generated by plot.py at 2019-10-02 22:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 106.842 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 106.842 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

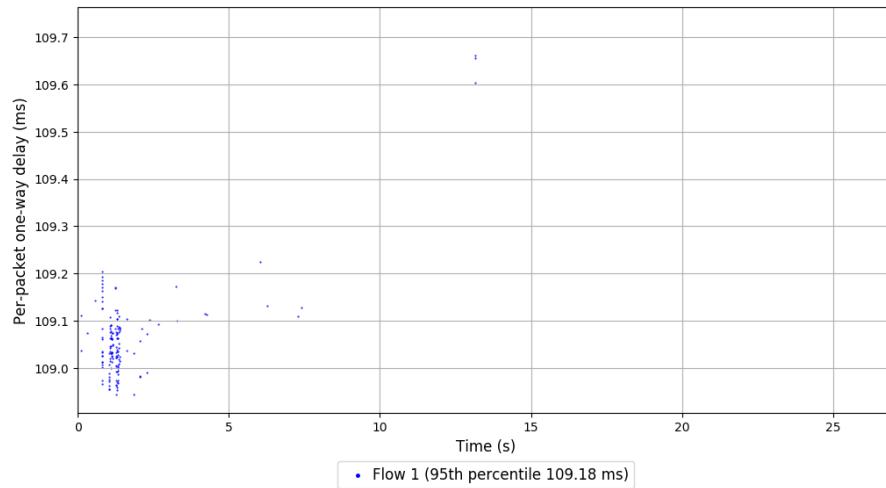
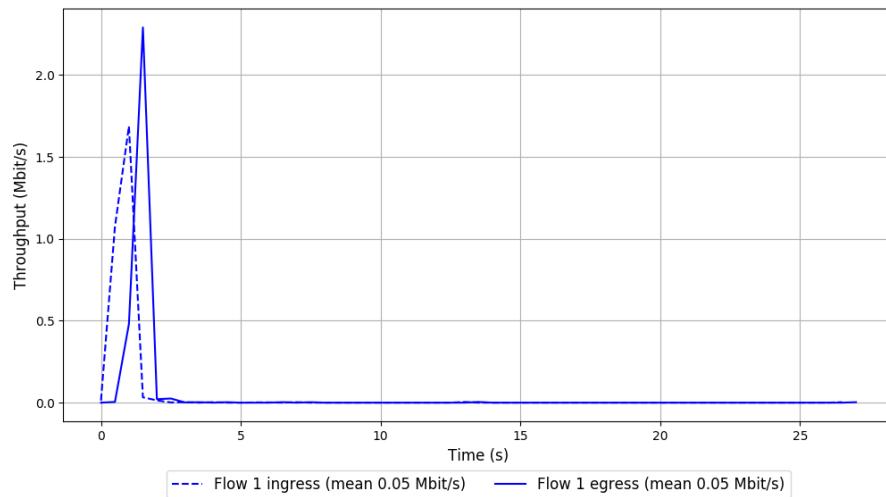


Run 3: Statistics of WebRTC media

```
Start at: 2019-10-02 19:00:12
End at: 2019-10-02 19:00:42
Local clock offset: 12.973 ms
Remote clock offset: 18.092 ms

# Below is generated by plot.py at 2019-10-02 22:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.179 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.179 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

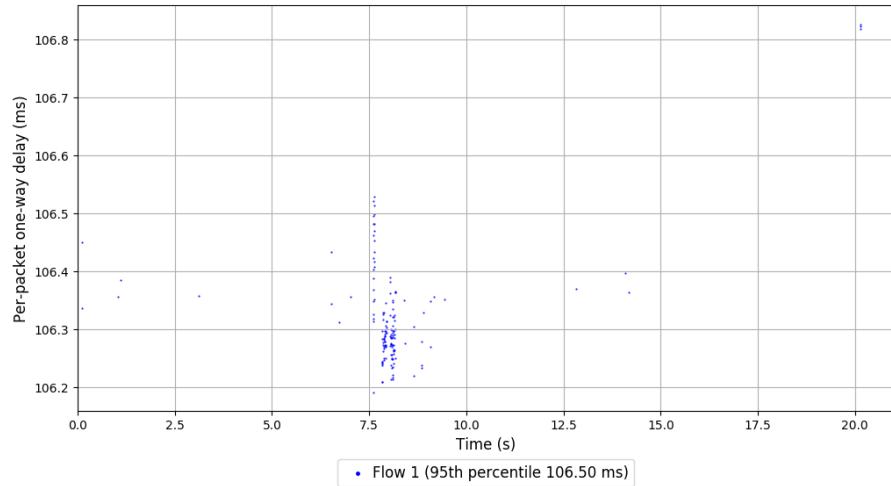
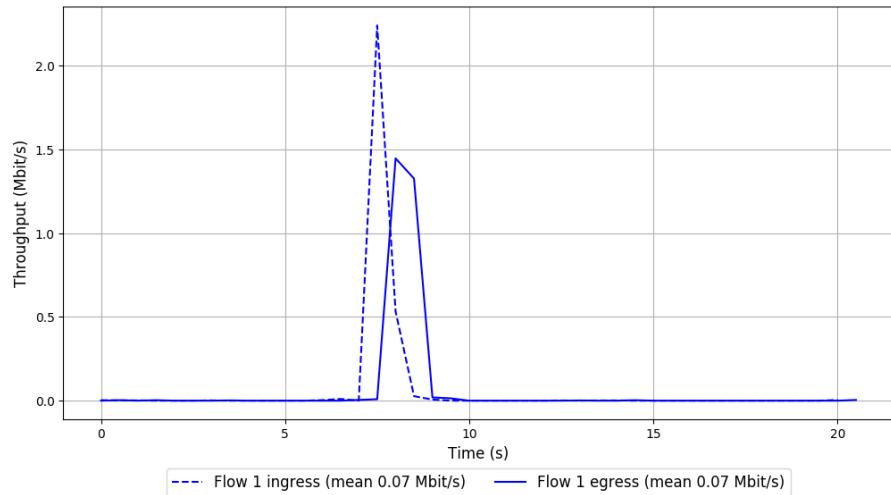
Start at: 2019-10-02 19:35:56

End at: 2019-10-02 19:36:26

Local clock offset: 6.268 ms

Remote clock offset: 9.437 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-10-02 20:11:34
End at: 2019-10-02 20:12:04
Local clock offset: 1.386 ms
Remote clock offset: 2.577 ms

# Below is generated by plot.py at 2019-10-02 22:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 106.376 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 106.376 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

