

Pantheon Report

Generated at 2019-07-17 20:57:48 (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:

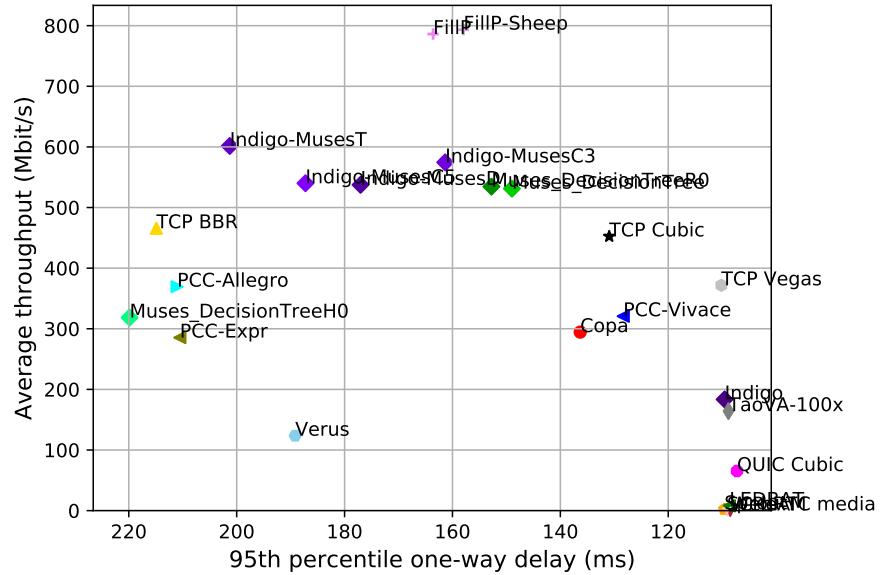
```
Linux 4.15.0-1036-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

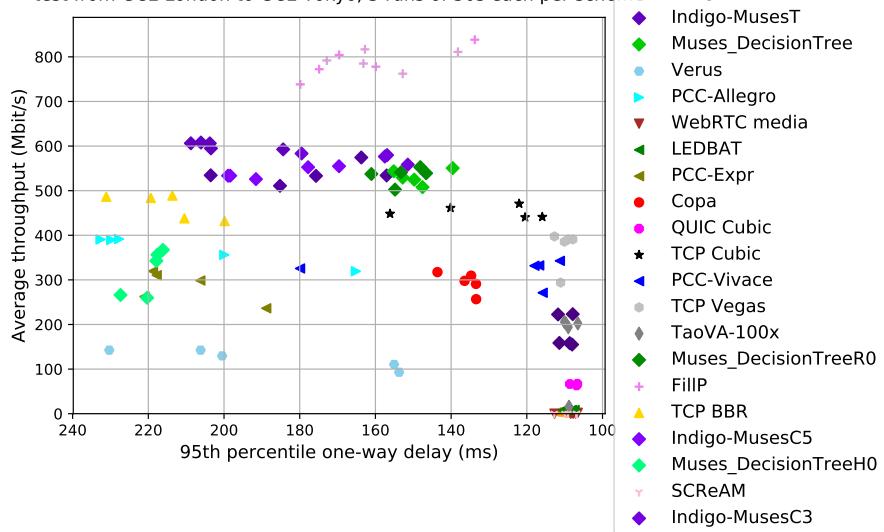
```
branch: muses @ de42328552b3776a75a932a94dfaf722537b0ec
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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



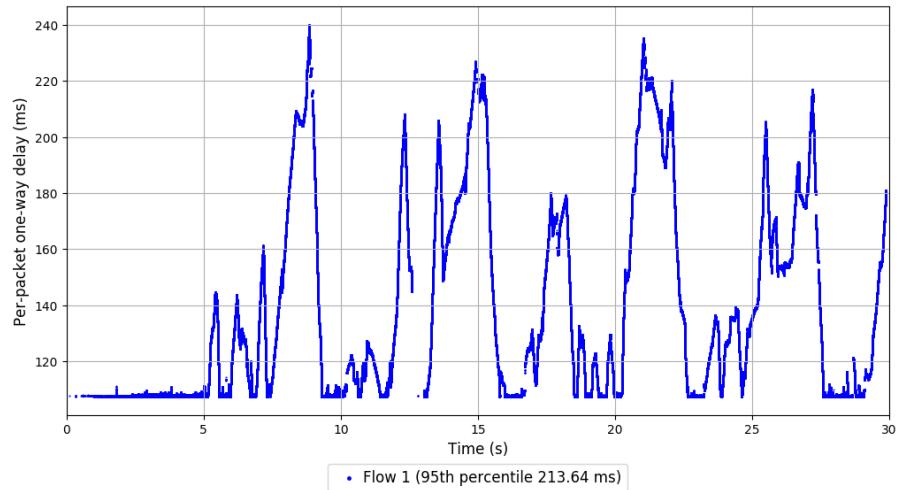
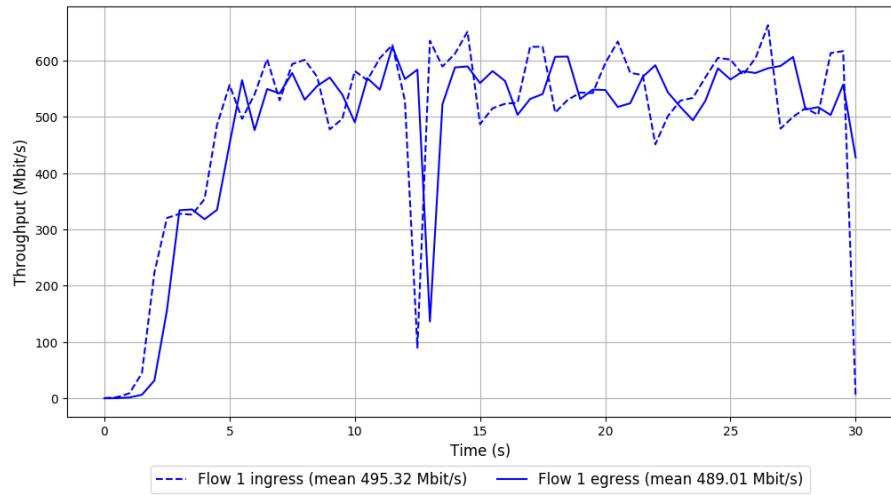
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	465.82	214.88	1.95
Copa	5	294.50	136.32	0.82
TCP Cubic	5	452.35	130.94	0.89
FillP	5	786.25	163.58	1.86
FillP-Sheep	5	793.43	157.96	1.17
Indigo	5	183.50	109.55	0.77
Indigo-MusesC3	4	574.48	161.35	0.99
Indigo-MusesC5	5	540.08	187.25	1.12
Indigo-MusesD	5	537.40	177.04	0.97
Indigo-MusesT	5	601.54	201.29	1.32
LEDBAT	5	7.92	108.67	1.45
Muses_DecisionTree	5	531.18	148.97	0.98
Muses_DecisionTreeH0	5	318.47	219.85	11.43
Muses_DecisionTreeR0	5	534.50	152.77	0.87
PCC-Allegro	5	369.42	211.04	5.62
PCC-Expr	5	285.48	210.54	3.89
QUIC Cubic	4	65.38	107.25	1.06
SCReAM	5	0.22	109.11	0.69
Sprout	5	2.18	109.60	0.90
TaoVA-100x	5	164.11	108.84	0.69
TCP Vegas	5	371.71	110.16	0.74
Verus	5	123.56	189.16	0.98
PCC-Vivace	5	320.69	128.34	0.97
WebRTC media	5	0.43	108.52	0.26

Run 1: Statistics of TCP BBR

```
Start at: 2019-07-17 16:28:51
End at: 2019-07-17 16:29:21
Local clock offset: 27.447 ms
Remote clock offset: 25.856 ms

# Below is generated by plot.py at 2019-07-17 19:17:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 489.01 Mbit/s
95th percentile per-packet one-way delay: 213.640 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 489.01 Mbit/s
95th percentile per-packet one-way delay: 213.640 ms
Loss rate: 1.99%
```

Run 1: Report of TCP BBR — Data Link

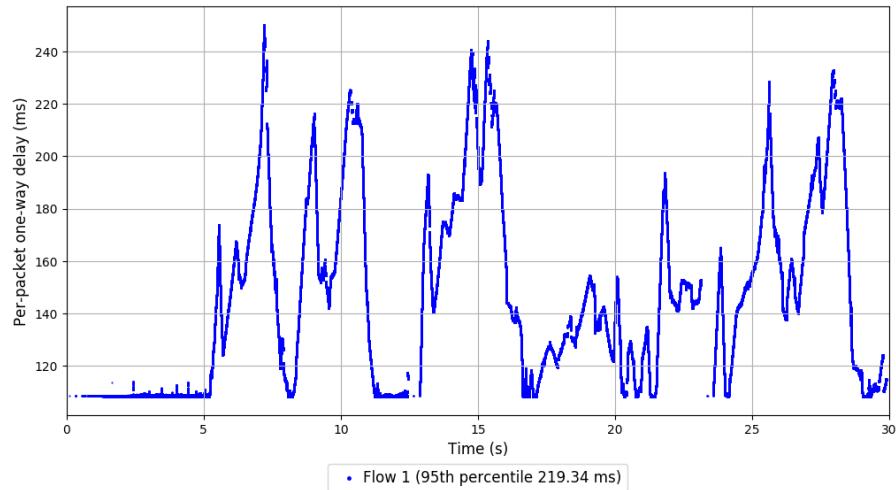
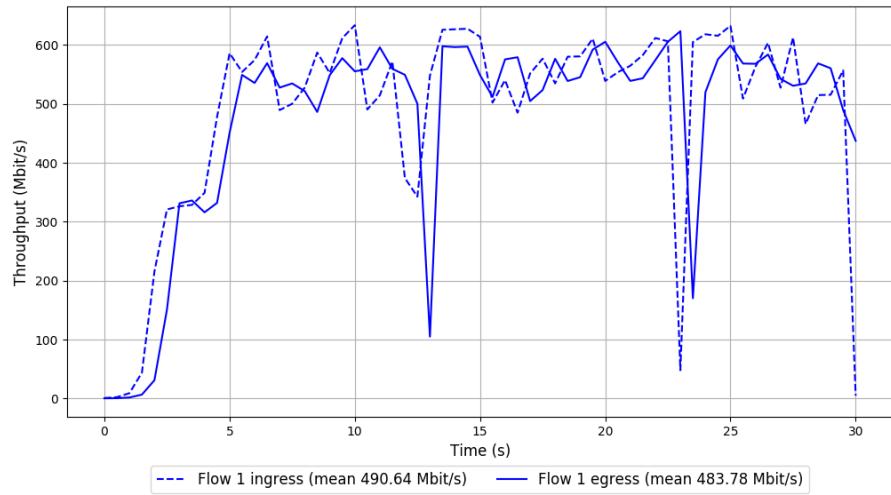


Run 2: Statistics of TCP BBR

```
Start at: 2019-07-17 17:04:51
End at: 2019-07-17 17:05:21
Local clock offset: 34.655 ms
Remote clock offset: 31.092 ms

# Below is generated by plot.py at 2019-07-17 19:17:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 483.78 Mbit/s
95th percentile per-packet one-way delay: 219.343 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 483.78 Mbit/s
95th percentile per-packet one-way delay: 219.343 ms
Loss rate: 2.11%
```

Run 2: Report of TCP BBR — Data Link

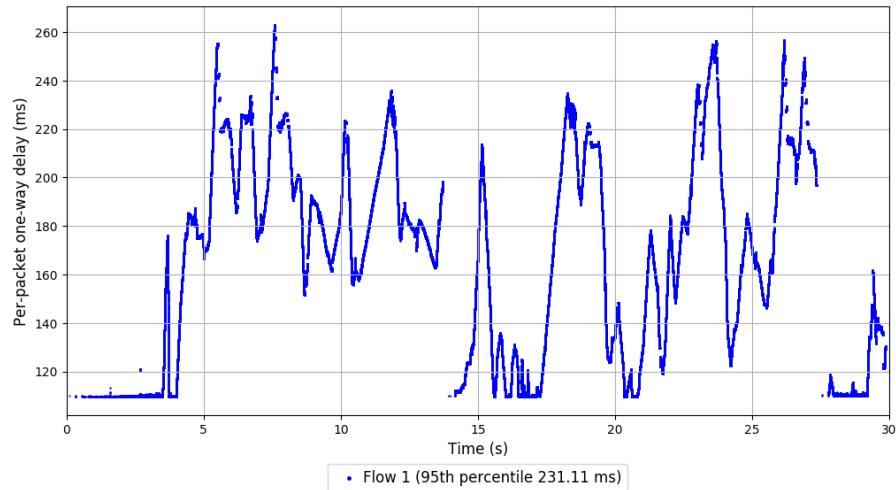
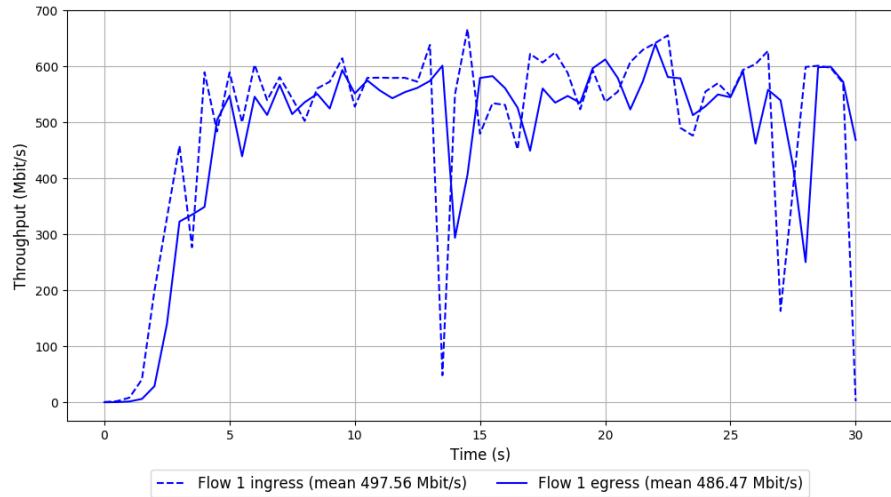


Run 3: Statistics of TCP BBR

```
Start at: 2019-07-17 17:40:54
End at: 2019-07-17 17:41:24
Local clock offset: 14.203 ms
Remote clock offset: 6.661 ms

# Below is generated by plot.py at 2019-07-17 19:17:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 486.47 Mbit/s
95th percentile per-packet one-way delay: 231.111 ms
Loss rate: 2.94%
-- Flow 1:
Average throughput: 486.47 Mbit/s
95th percentile per-packet one-way delay: 231.111 ms
Loss rate: 2.94%
```

Run 3: Report of TCP BBR — Data Link

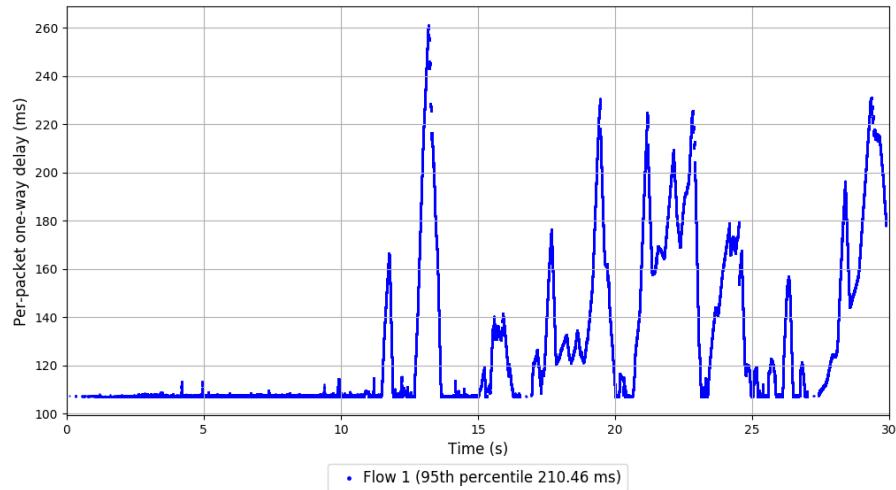
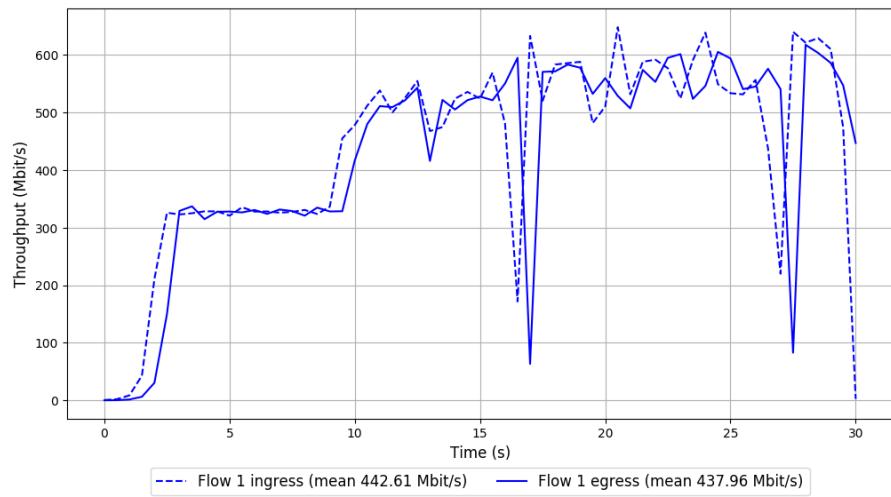


Run 4: Statistics of TCP BBR

```
Start at: 2019-07-17 18:17:16
End at: 2019-07-17 18:17:46
Local clock offset: 5.363 ms
Remote clock offset: 2.497 ms

# Below is generated by plot.py at 2019-07-17 19:17:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 437.96 Mbit/s
95th percentile per-packet one-way delay: 210.464 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 437.96 Mbit/s
95th percentile per-packet one-way delay: 210.464 ms
Loss rate: 1.77%
```

Run 4: Report of TCP BBR — Data Link

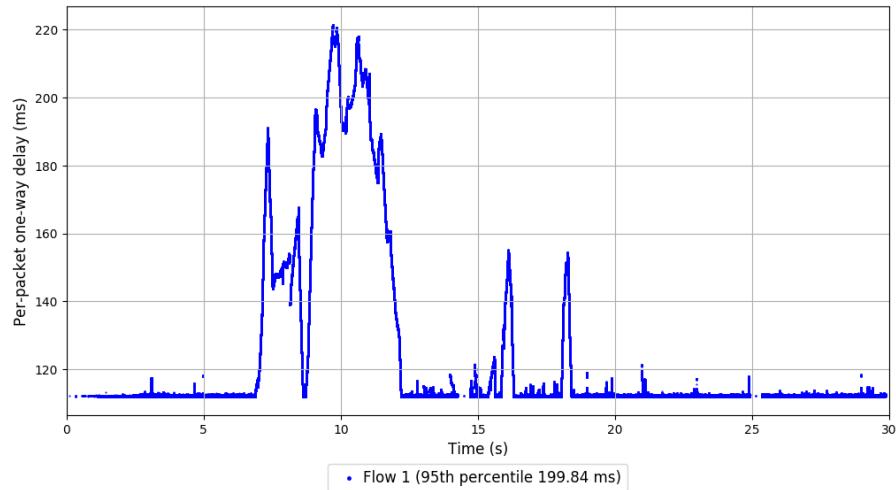
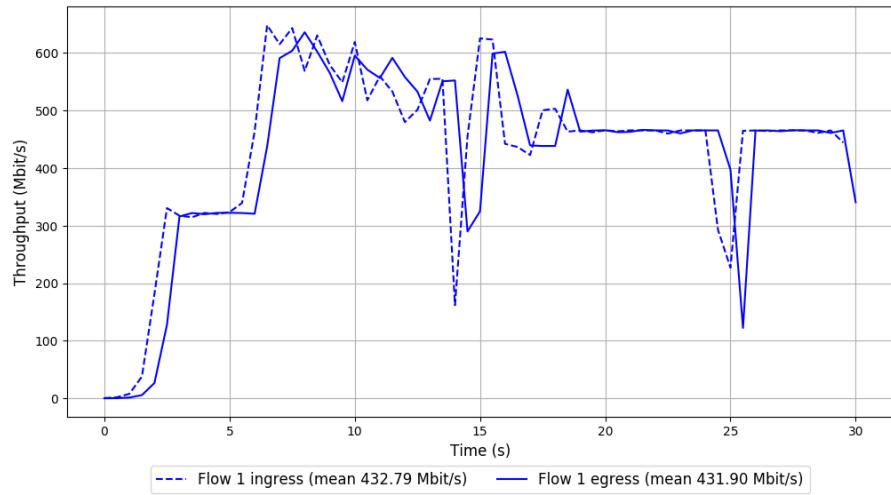


Run 5: Statistics of TCP BBR

```
Start at: 2019-07-17 18:53:33
End at: 2019-07-17 18:54:03
Local clock offset: 1.187 ms
Remote clock offset: 0.996 ms

# Below is generated by plot.py at 2019-07-17 19:17:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 431.90 Mbit/s
95th percentile per-packet one-way delay: 199.837 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 431.90 Mbit/s
95th percentile per-packet one-way delay: 199.837 ms
Loss rate: 0.95%
```

Run 5: Report of TCP BBR — Data Link

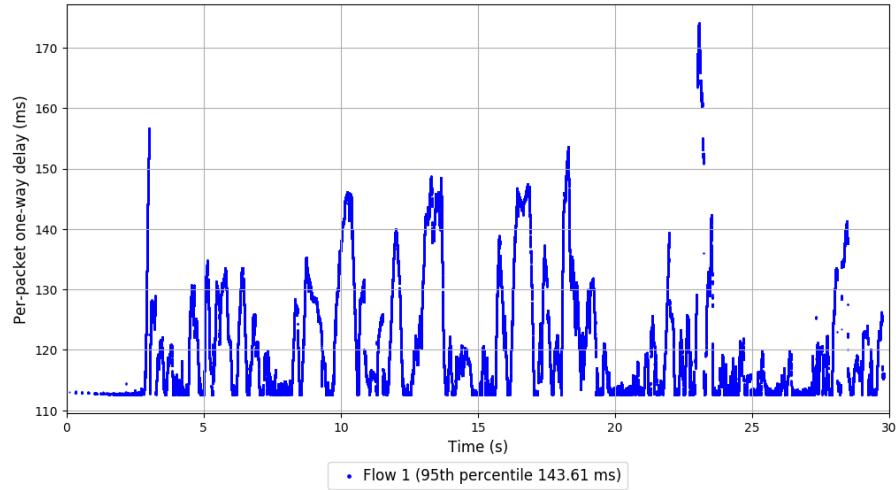
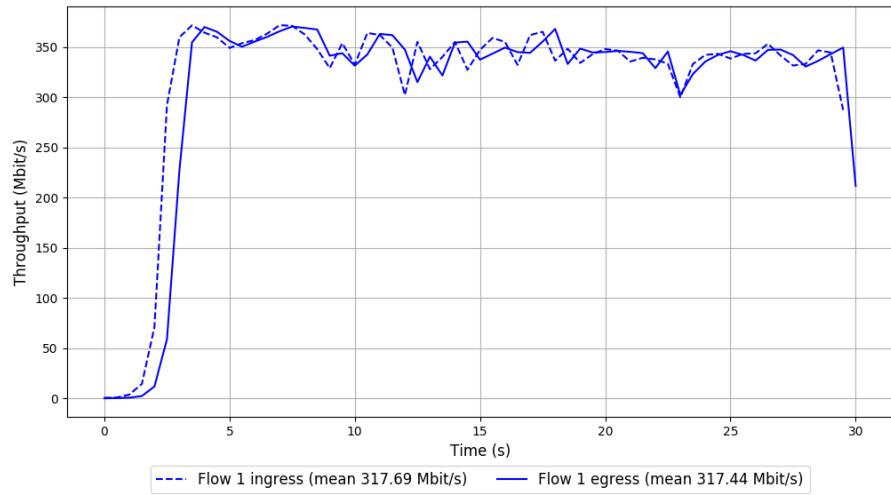


Run 1: Statistics of Copa

```
Start at: 2019-07-17 16:03:43
End at: 2019-07-17 16:04:13
Local clock offset: 10.633 ms
Remote clock offset: 9.93 ms

# Below is generated by plot.py at 2019-07-17 19:18:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.44 Mbit/s
95th percentile per-packet one-way delay: 143.610 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 317.44 Mbit/s
95th percentile per-packet one-way delay: 143.610 ms
Loss rate: 0.81%
```

Run 1: Report of Copa — Data Link

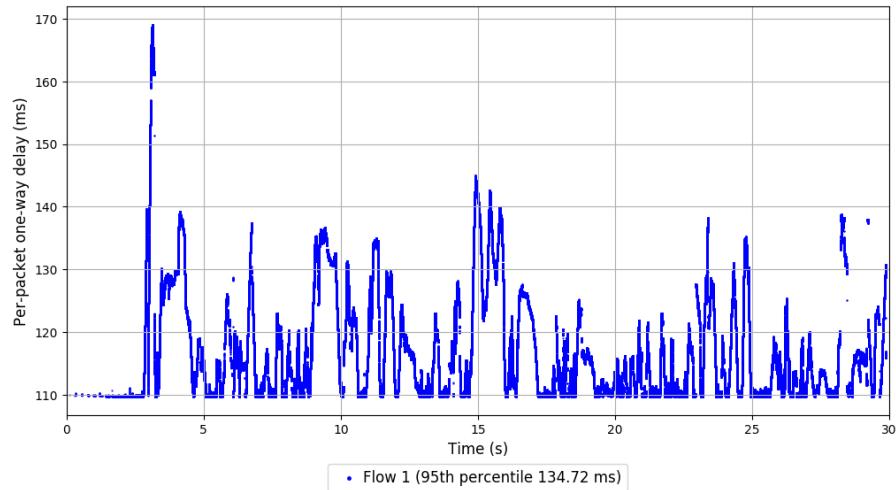
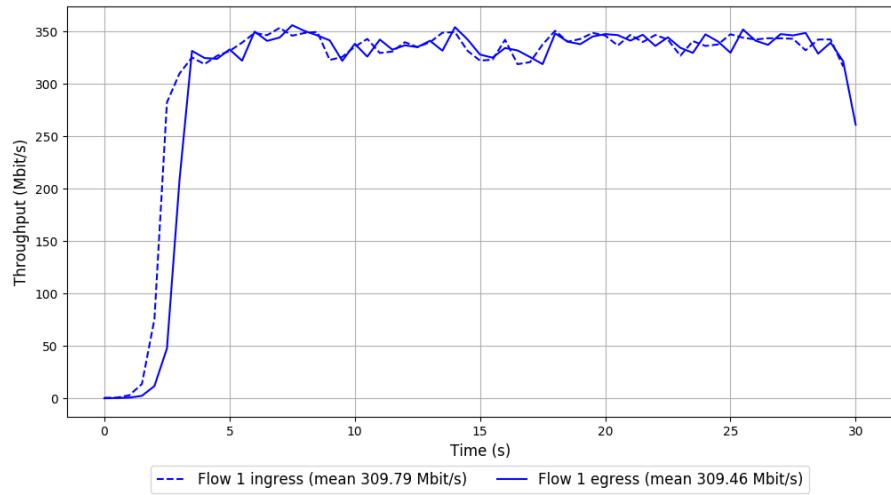


Run 2: Statistics of Copa

```
Start at: 2019-07-17 16:39:42
End at: 2019-07-17 16:40:12
Local clock offset: 21.482 ms
Remote clock offset: 20.05 ms

# Below is generated by plot.py at 2019-07-17 19:18:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.46 Mbit/s
95th percentile per-packet one-way delay: 134.718 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 309.46 Mbit/s
95th percentile per-packet one-way delay: 134.718 ms
Loss rate: 0.83%
```

Run 2: Report of Copa — Data Link

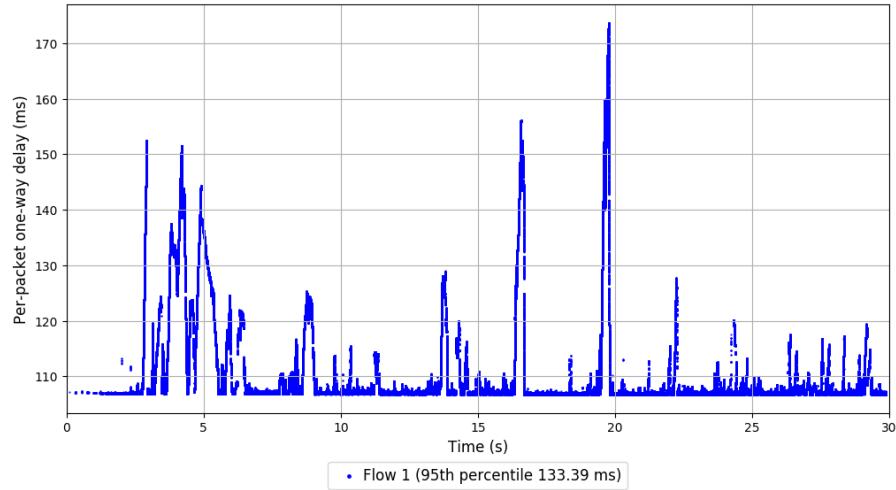
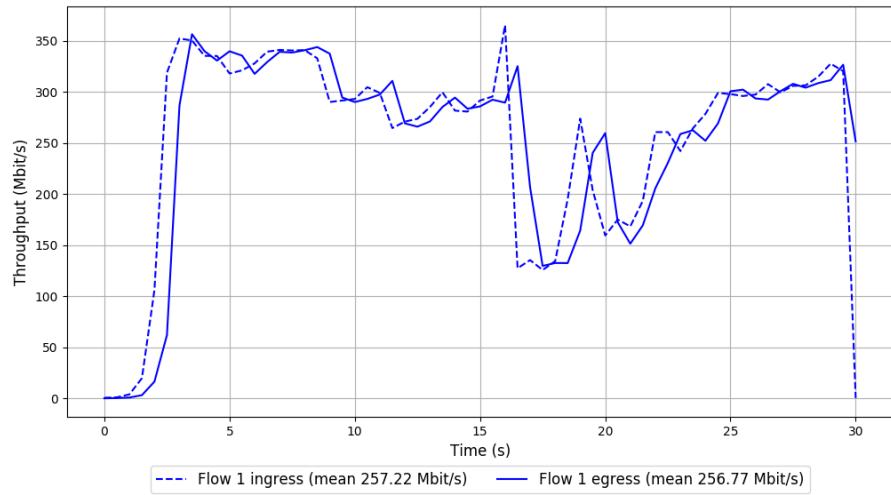


Run 3: Statistics of Copa

```
Start at: 2019-07-17 17:15:36
End at: 2019-07-17 17:16:06
Local clock offset: 16.714 ms
Remote clock offset: 12.148 ms

# Below is generated by plot.py at 2019-07-17 19:18:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.77 Mbit/s
95th percentile per-packet one-way delay: 133.389 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 256.77 Mbit/s
95th percentile per-packet one-way delay: 133.389 ms
Loss rate: 0.90%
```

Run 3: Report of Copa — Data Link

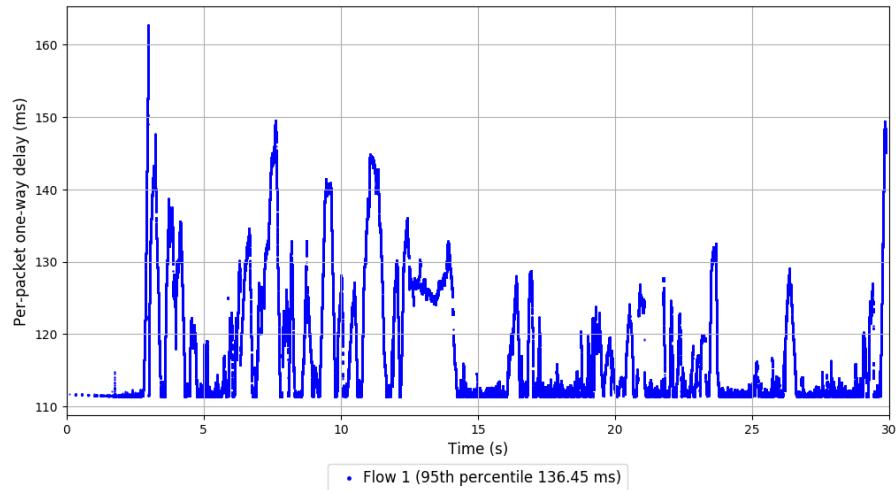
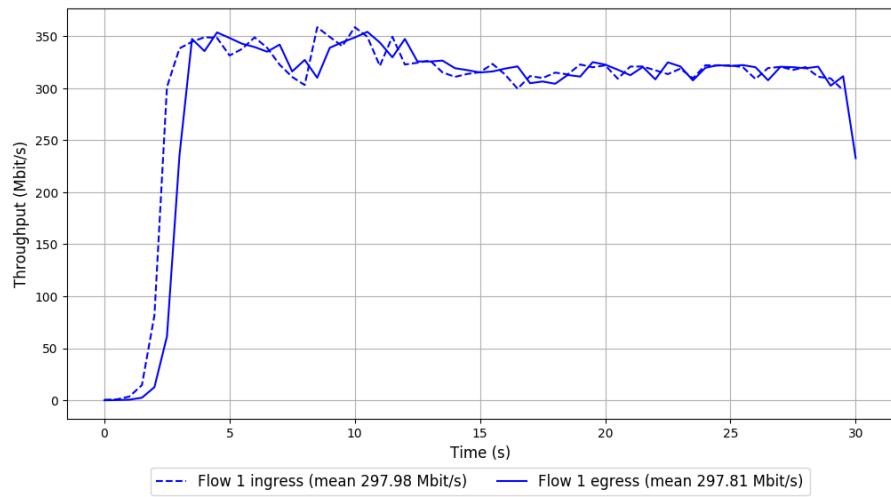


Run 4: Statistics of Copa

```
Start at: 2019-07-17 17:51:49
End at: 2019-07-17 17:52:19
Local clock offset: 7.886 ms
Remote clock offset: 3.672 ms

# Below is generated by plot.py at 2019-07-17 19:25:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.81 Mbit/s
95th percentile per-packet one-way delay: 136.447 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 297.81 Mbit/s
95th percentile per-packet one-way delay: 136.447 ms
Loss rate: 0.79%
```

Run 4: Report of Copa — Data Link

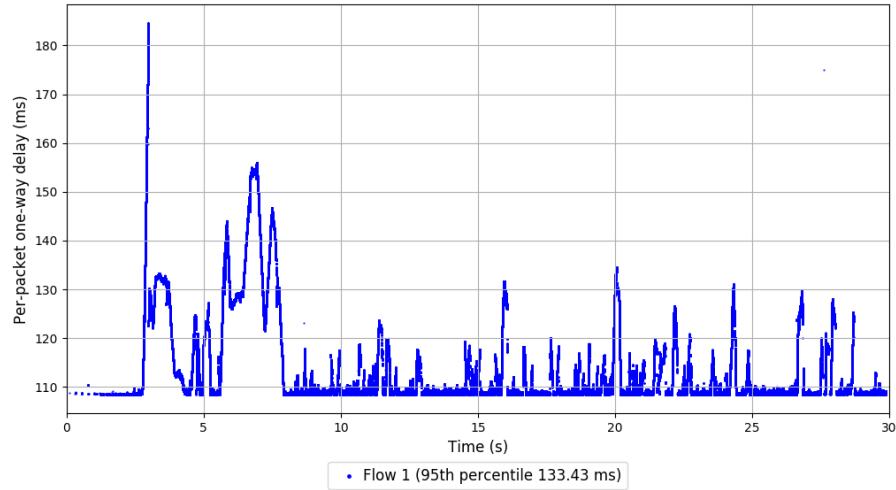
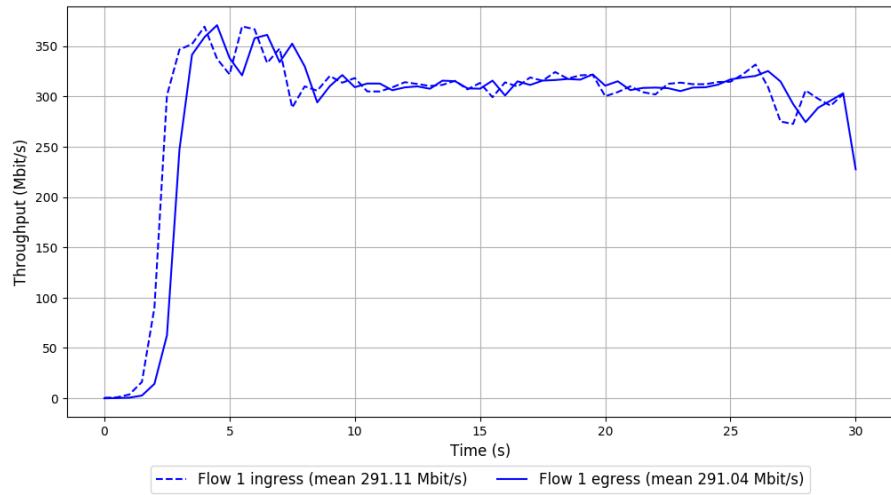


Run 5: Statistics of Copa

```
Start at: 2019-07-17 18:28:05
End at: 2019-07-17 18:28:35
Local clock offset: 2.041 ms
Remote clock offset: 1.622 ms

# Below is generated by plot.py at 2019-07-17 19:25:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 291.04 Mbit/s
95th percentile per-packet one-way delay: 133.430 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 291.04 Mbit/s
95th percentile per-packet one-way delay: 133.430 ms
Loss rate: 0.75%
```

Run 5: Report of Copa — Data Link

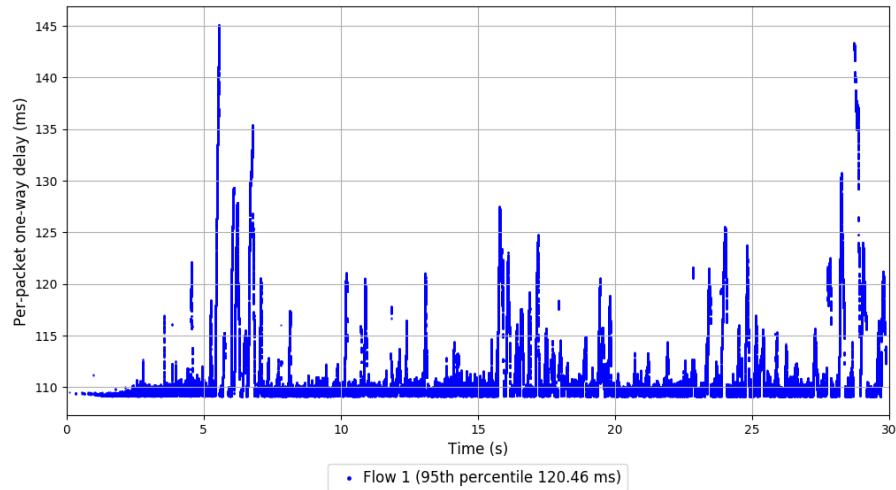
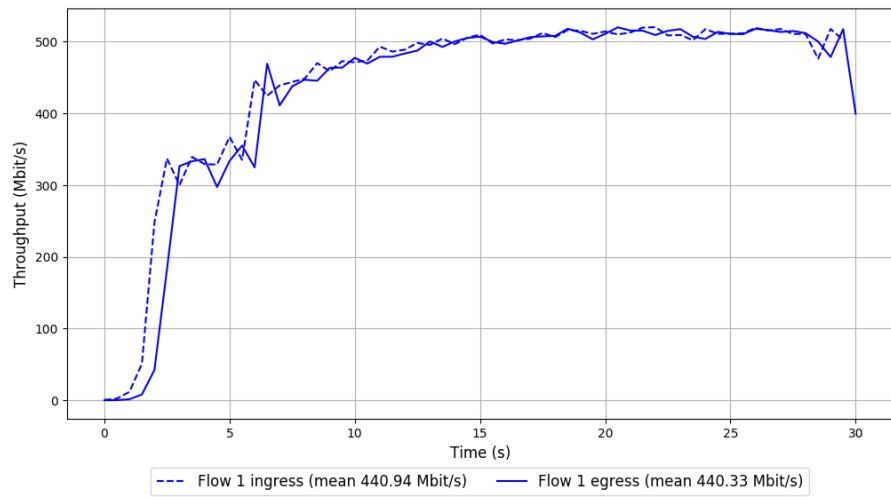


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-07-17 16:02:10
End at: 2019-07-17 16:02:40
Local clock offset: 9.732 ms
Remote clock offset: 10.012 ms

# Below is generated by plot.py at 2019-07-17 19:25:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 440.33 Mbit/s
95th percentile per-packet one-way delay: 120.458 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 440.33 Mbit/s
95th percentile per-packet one-way delay: 120.458 ms
Loss rate: 0.86%
```

Run 1: Report of TCP Cubic — Data Link

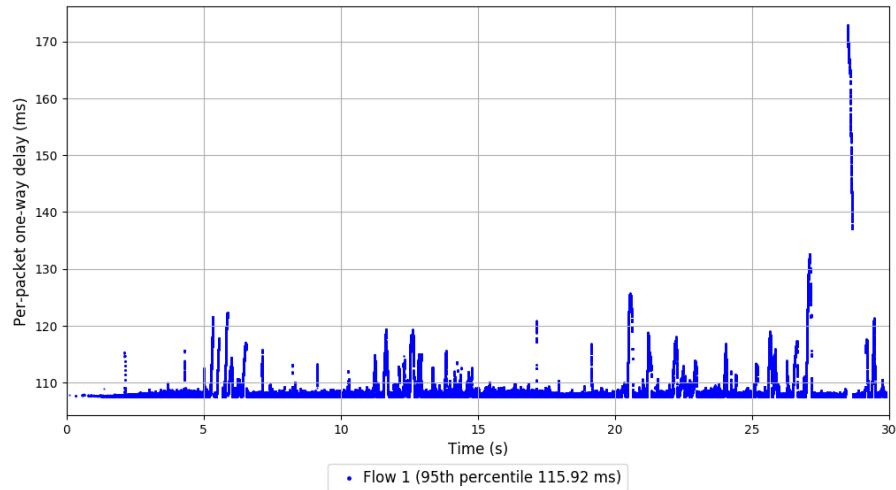
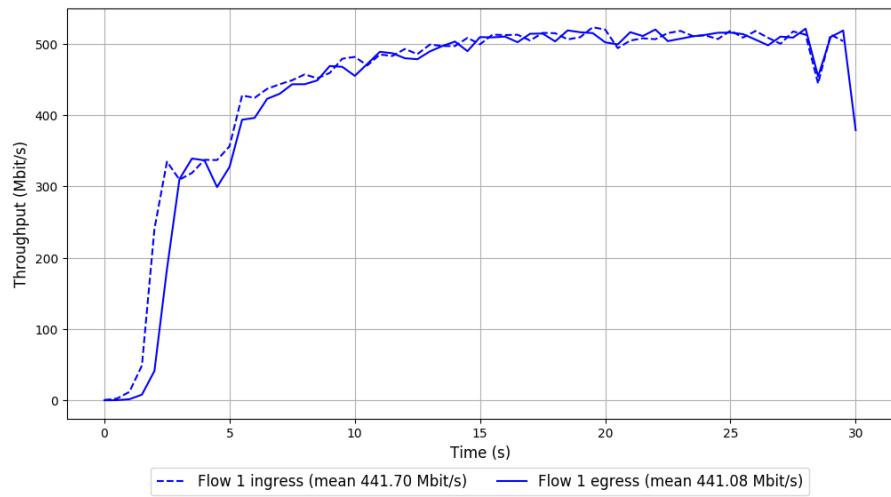


Run 2: Statistics of TCP Cubic

```
Start at: 2019-07-17 16:38:08
End at: 2019-07-17 16:38:38
Local clock offset: 21.203 ms
Remote clock offset: 19.675 ms

# Below is generated by plot.py at 2019-07-17 19:25:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 441.08 Mbit/s
95th percentile per-packet one-way delay: 115.919 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 441.08 Mbit/s
95th percentile per-packet one-way delay: 115.919 ms
Loss rate: 0.86%
```

Run 2: Report of TCP Cubic — Data Link

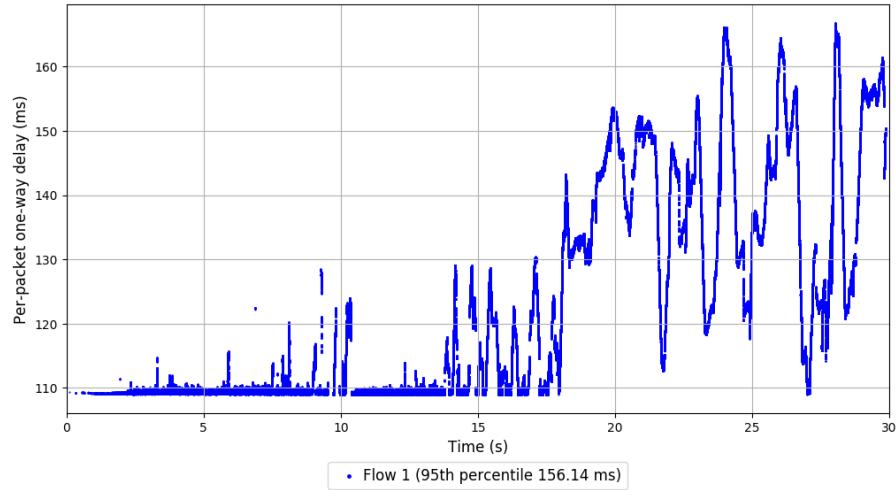
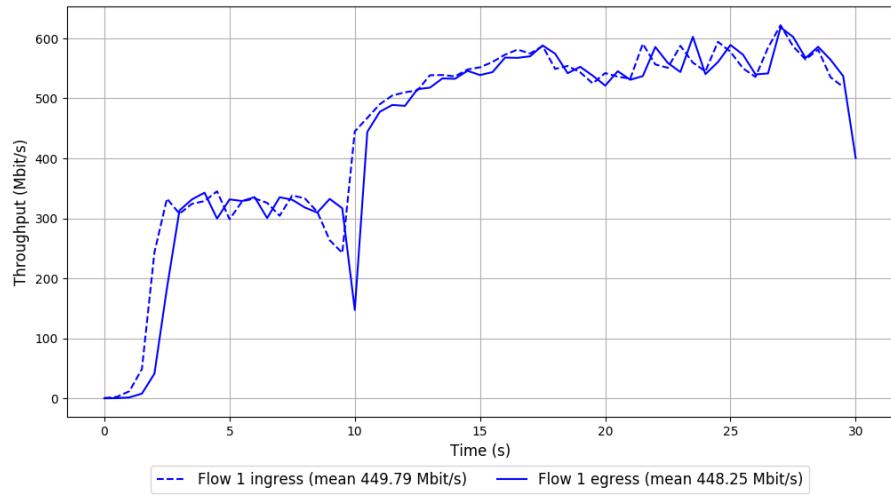


Run 3: Statistics of TCP Cubic

```
Start at: 2019-07-17 17:14:03
End at: 2019-07-17 17:14:33
Local clock offset: 17.403 ms
Remote clock offset: 13.325 ms

# Below is generated by plot.py at 2019-07-17 19:25:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 448.25 Mbit/s
95th percentile per-packet one-way delay: 156.140 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 448.25 Mbit/s
95th percentile per-packet one-way delay: 156.140 ms
Loss rate: 1.07%
```

Run 3: Report of TCP Cubic — Data Link

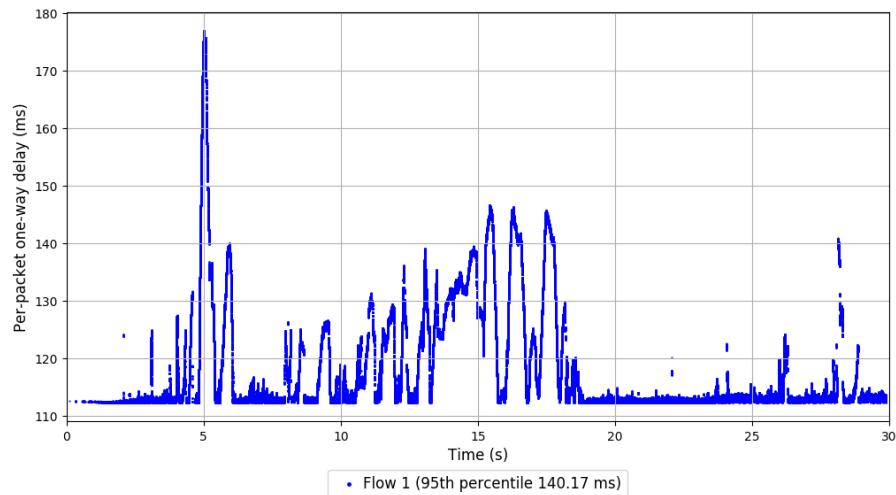
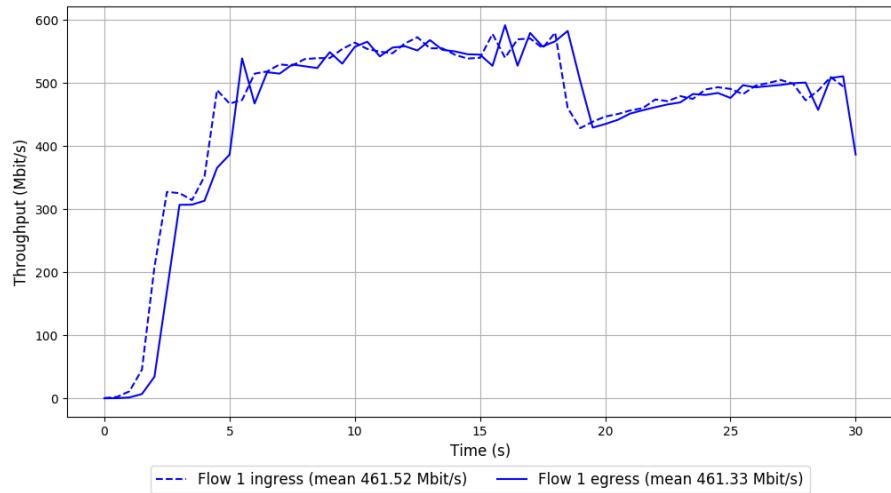


Run 4: Statistics of TCP Cubic

```
Start at: 2019-07-17 17:50:13
End at: 2019-07-17 17:50:43
Local clock offset: 8.269 ms
Remote clock offset: 3.823 ms

# Below is generated by plot.py at 2019-07-17 19:25:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 461.33 Mbit/s
95th percentile per-packet one-way delay: 140.170 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 461.33 Mbit/s
95th percentile per-packet one-way delay: 140.170 ms
Loss rate: 0.78%
```

Run 4: Report of TCP Cubic — Data Link

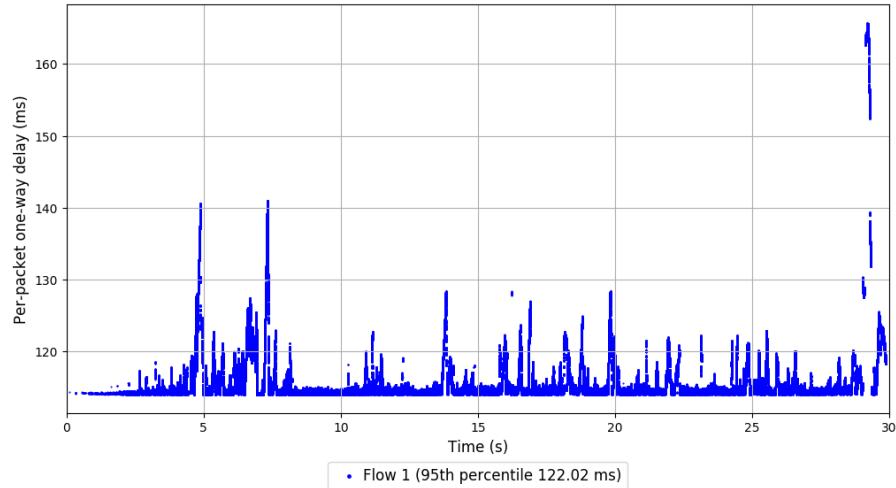
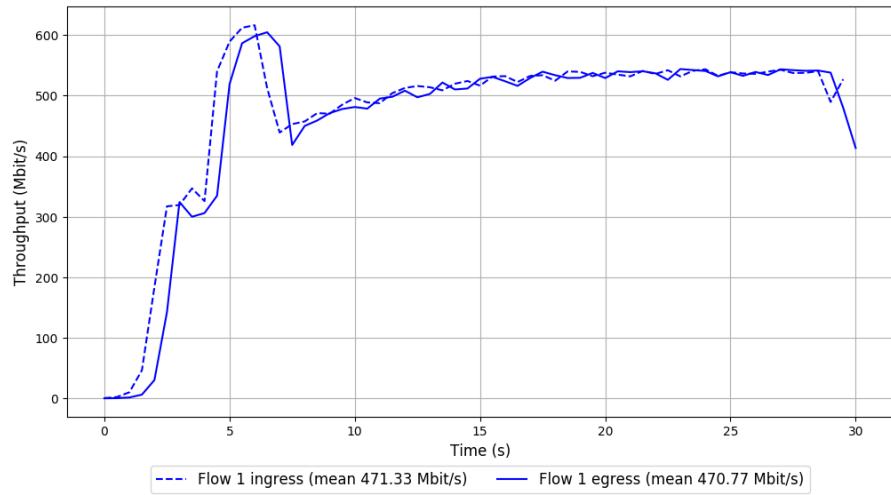


Run 5: Statistics of TCP Cubic

```
Start at: 2019-07-17 18:26:29
End at: 2019-07-17 18:26:59
Local clock offset: 2.781 ms
Remote clock offset: 1.625 ms

# Below is generated by plot.py at 2019-07-17 19:26:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 470.77 Mbit/s
95th percentile per-packet one-way delay: 122.023 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 470.77 Mbit/s
95th percentile per-packet one-way delay: 122.023 ms
Loss rate: 0.86%
```

Run 5: Report of TCP Cubic — Data Link

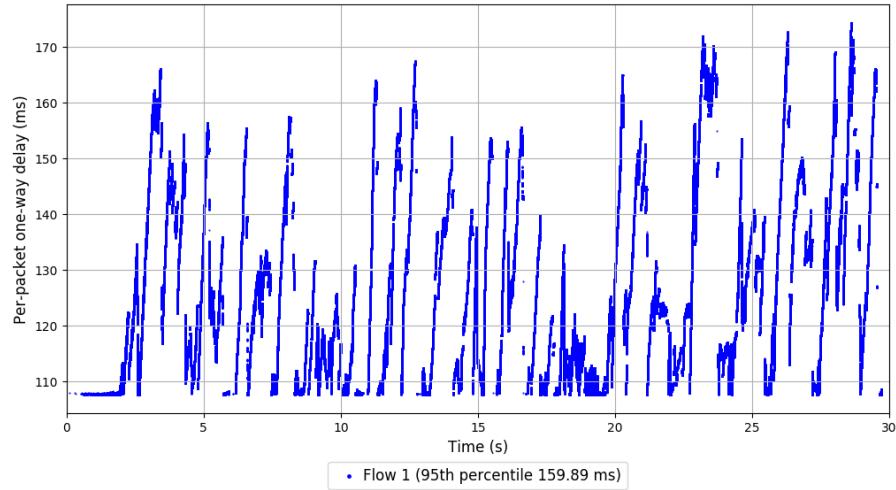
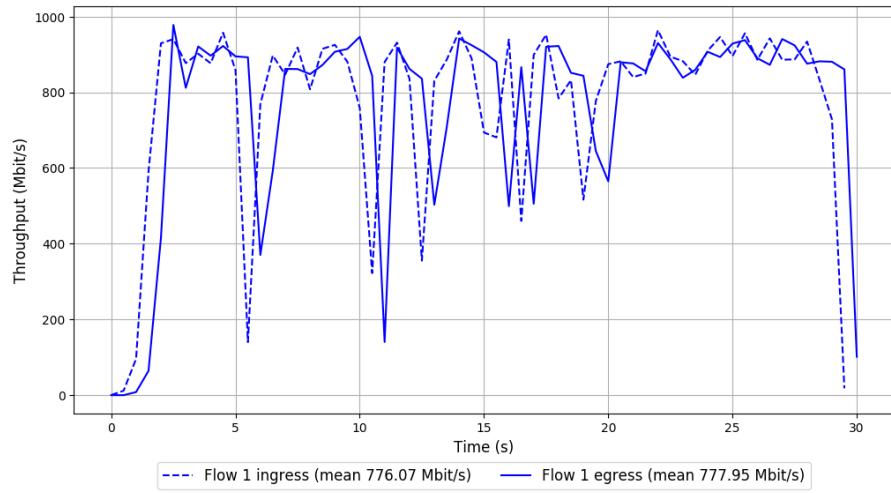


```
Run 1: Statistics of FillP
```

```
Start at: 2019-07-17 16:24:15
End at: 2019-07-17 16:24:45
Local clock offset: 21.043 ms
Remote clock offset: 20.882 ms

# Below is generated by plot.py at 2019-07-17 19:33:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 777.95 Mbit/s
95th percentile per-packet one-way delay: 159.888 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 777.95 Mbit/s
95th percentile per-packet one-way delay: 159.888 ms
Loss rate: 0.22%
```

Run 1: Report of FillP — Data Link

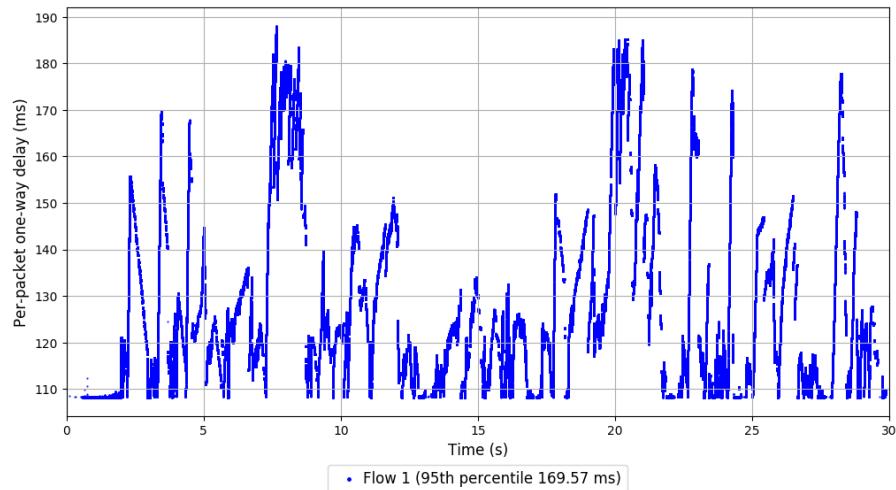
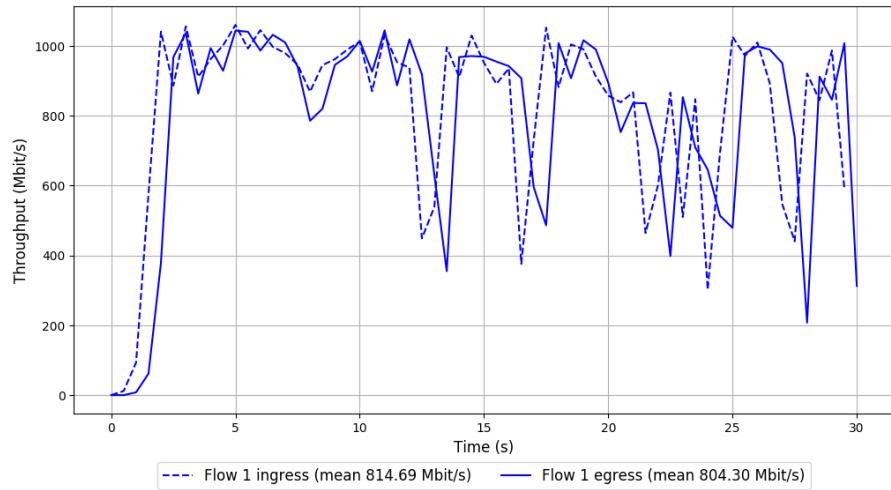


Run 2: Statistics of FillP

```
Start at: 2019-07-17 17:00:12
End at: 2019-07-17 17:00:42
Local clock offset: 37.927 ms
Remote clock offset: 37.258 ms

# Below is generated by plot.py at 2019-07-17 19:41:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 804.30 Mbit/s
95th percentile per-packet one-way delay: 169.574 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 804.30 Mbit/s
95th percentile per-packet one-way delay: 169.574 ms
Loss rate: 2.00%
```

Run 2: Report of FillP — Data Link

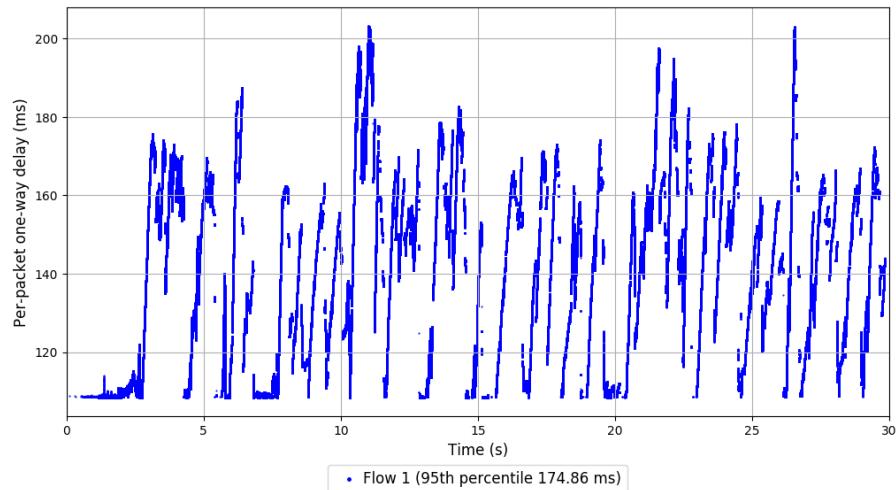
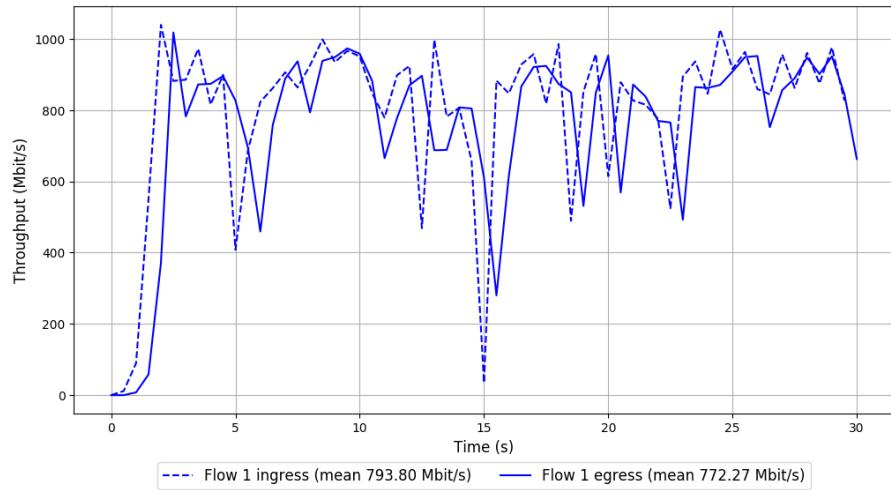


Run 3: Statistics of FillP

```
Start at: 2019-07-17 17:36:16
End at: 2019-07-17 17:36:46
Local clock offset: 20.132 ms
Remote clock offset: 10.012 ms

# Below is generated by plot.py at 2019-07-17 19:41:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 772.27 Mbit/s
95th percentile per-packet one-way delay: 174.863 ms
Loss rate: 3.42%
-- Flow 1:
Average throughput: 772.27 Mbit/s
95th percentile per-packet one-way delay: 174.863 ms
Loss rate: 3.42%
```

Run 3: Report of FillP — Data Link

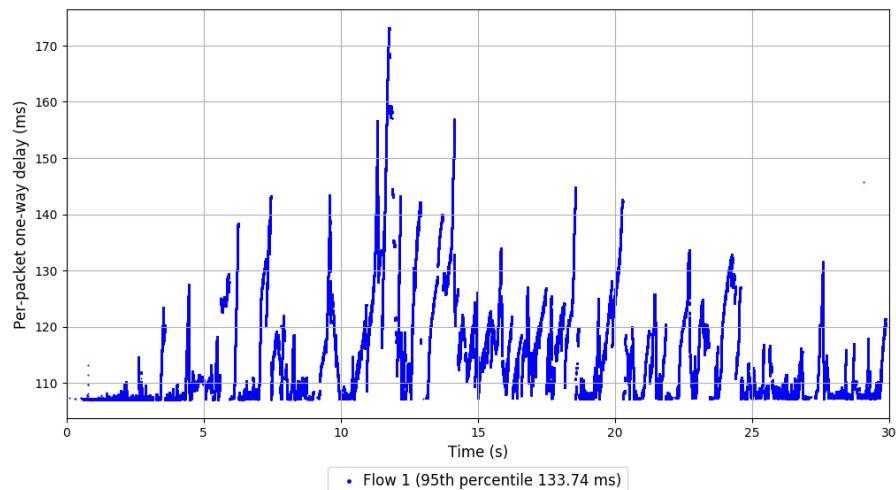
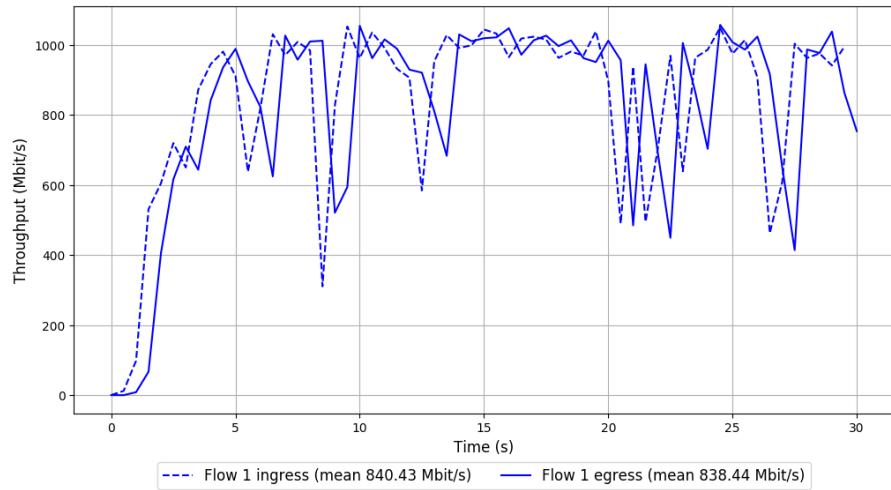


Run 4: Statistics of FillP

```
Start at: 2019-07-17 18:12:35
End at: 2019-07-17 18:13:05
Local clock offset: 8.476 ms
Remote clock offset: 3.848 ms

# Below is generated by plot.py at 2019-07-17 19:42:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 838.44 Mbit/s
95th percentile per-packet one-way delay: 133.743 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 838.44 Mbit/s
95th percentile per-packet one-way delay: 133.743 ms
Loss rate: 0.96%
```

Run 4: Report of FillP — Data Link

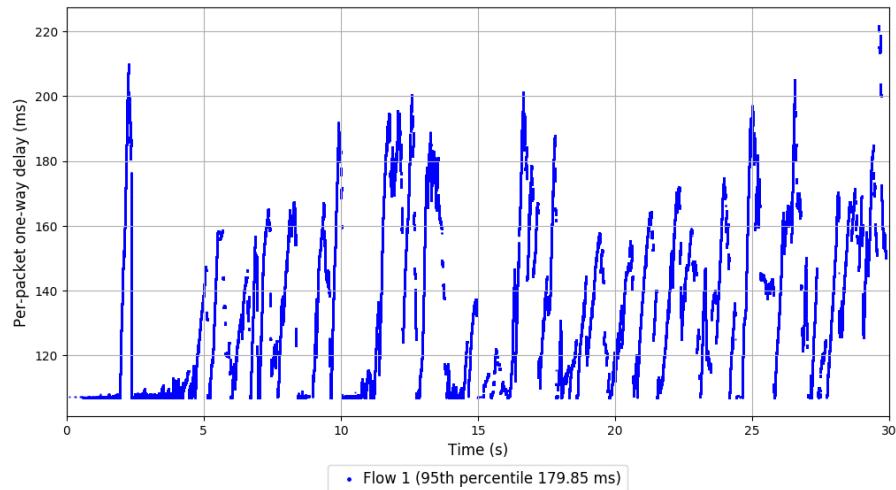
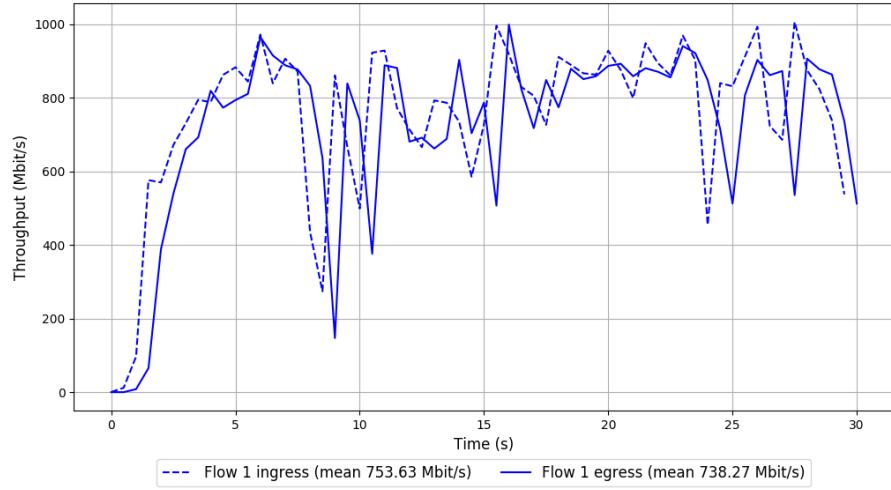


Run 5: Statistics of FillP

```
Start at: 2019-07-17 18:48:54
End at: 2019-07-17 18:49:24
Local clock offset: 1.831 ms
Remote clock offset: 1.391 ms

# Below is generated by plot.py at 2019-07-17 19:42:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 738.27 Mbit/s
95th percentile per-packet one-way delay: 179.854 ms
Loss rate: 2.70%
-- Flow 1:
Average throughput: 738.27 Mbit/s
95th percentile per-packet one-way delay: 179.854 ms
Loss rate: 2.70%
```

Run 5: Report of FillP — Data Link

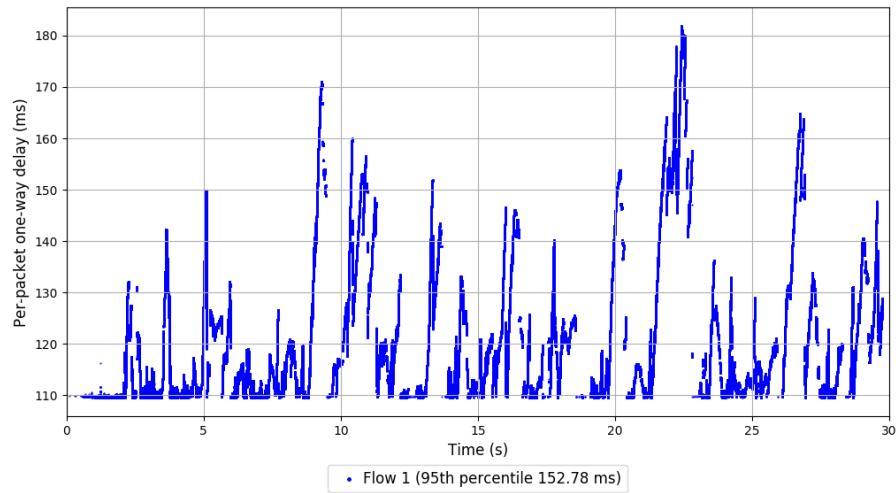
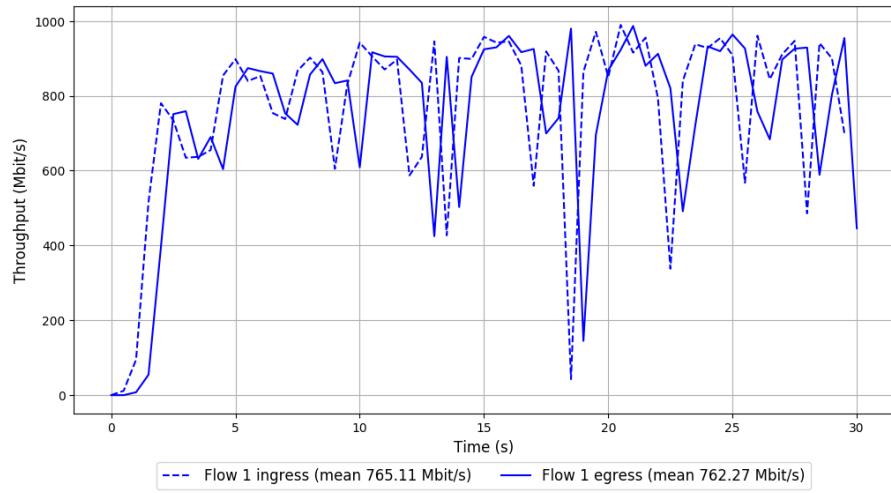


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-07-17 16:25:58
End at: 2019-07-17 16:26:28
Local clock offset: 23.251 ms
Remote clock offset: 22.835 ms

# Below is generated by plot.py at 2019-07-17 19:42:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 762.27 Mbit/s
95th percentile per-packet one-way delay: 152.782 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 762.27 Mbit/s
95th percentile per-packet one-way delay: 152.782 ms
Loss rate: 1.11%
```

Run 1: Report of FillP-Sheep — Data Link

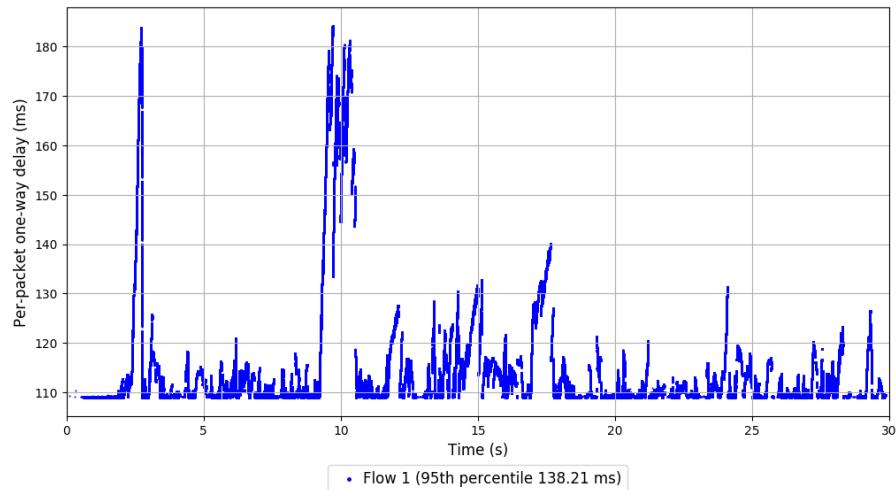
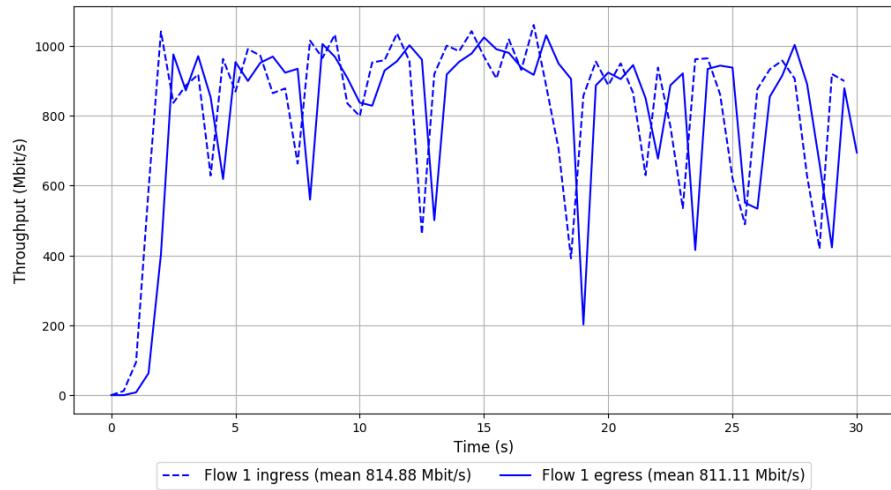


```
Run 2: Statistics of FillP-Sheep
```

```
Start at: 2019-07-17 17:01:57
End at: 2019-07-17 17:02:27
Local clock offset: 40.42 ms
Remote clock offset: 39.079 ms

# Below is generated by plot.py at 2019-07-17 19:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 811.11 Mbit/s
95th percentile per-packet one-way delay: 138.213 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 811.11 Mbit/s
95th percentile per-packet one-way delay: 138.213 ms
Loss rate: 1.19%
```

Run 2: Report of FillP-Sheep — Data Link

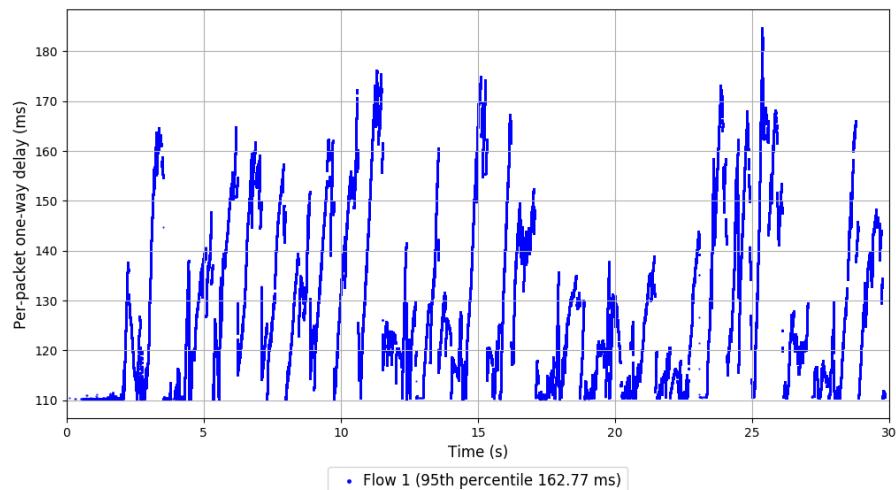
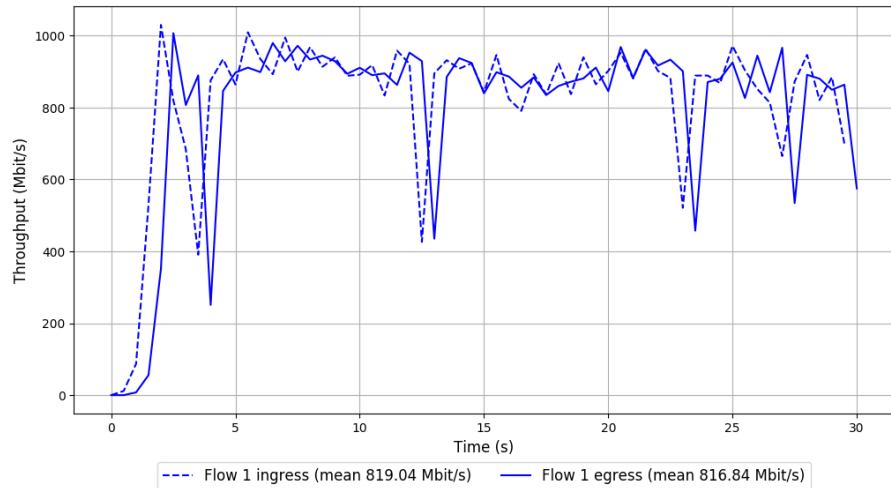


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-07-17 17:38:00
End at: 2019-07-17 17:38:30
Local clock offset: 19.14 ms
Remote clock offset: 8.862 ms

# Below is generated by plot.py at 2019-07-17 19:44:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 816.84 Mbit/s
95th percentile per-packet one-way delay: 162.774 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 816.84 Mbit/s
95th percentile per-packet one-way delay: 162.774 ms
Loss rate: 1.00%
```

Run 3: Report of FillP-Sheep — Data Link

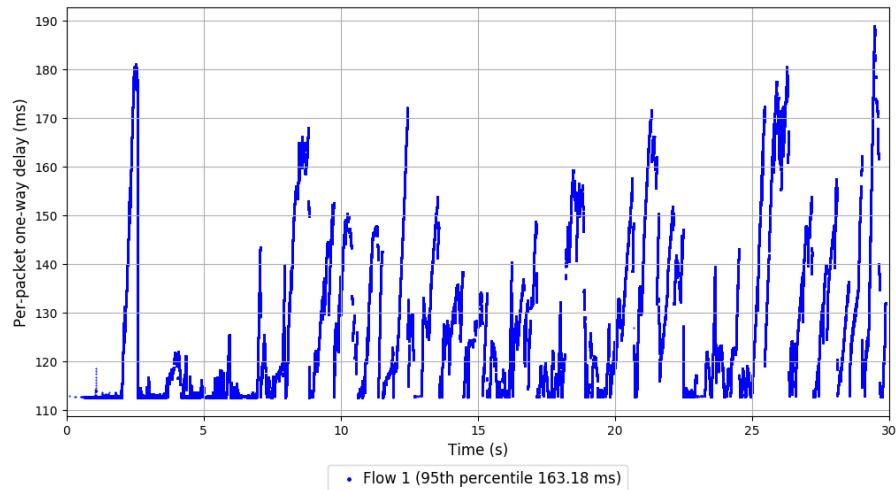
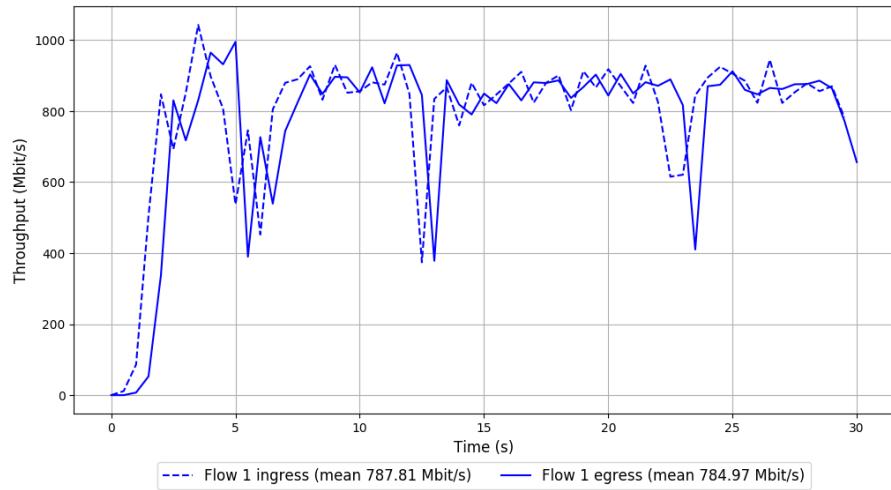


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-07-17 18:14:22
End at: 2019-07-17 18:14:52
Local clock offset: 7.109 ms
Remote clock offset: 2.881 ms

# Below is generated by plot.py at 2019-07-17 19:52:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 784.97 Mbit/s
95th percentile per-packet one-way delay: 163.184 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 784.97 Mbit/s
95th percentile per-packet one-way delay: 163.184 ms
Loss rate: 1.10%
```

Run 4: Report of FillP-Sheep — Data Link

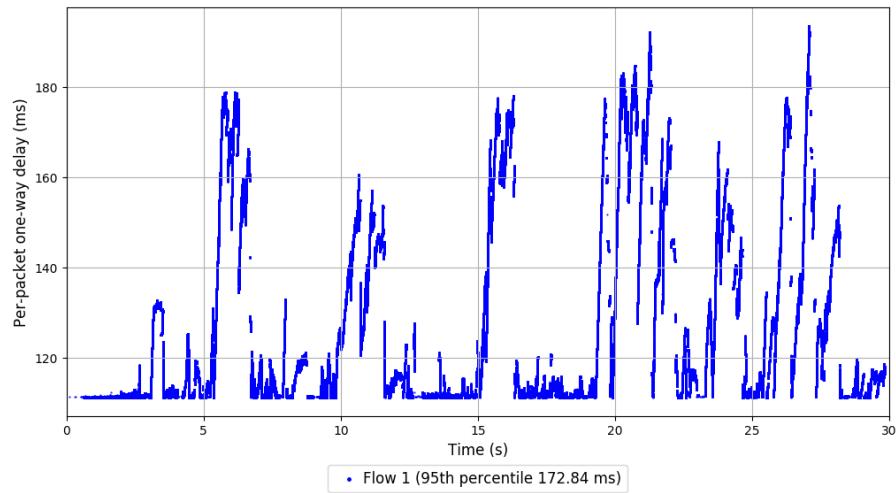
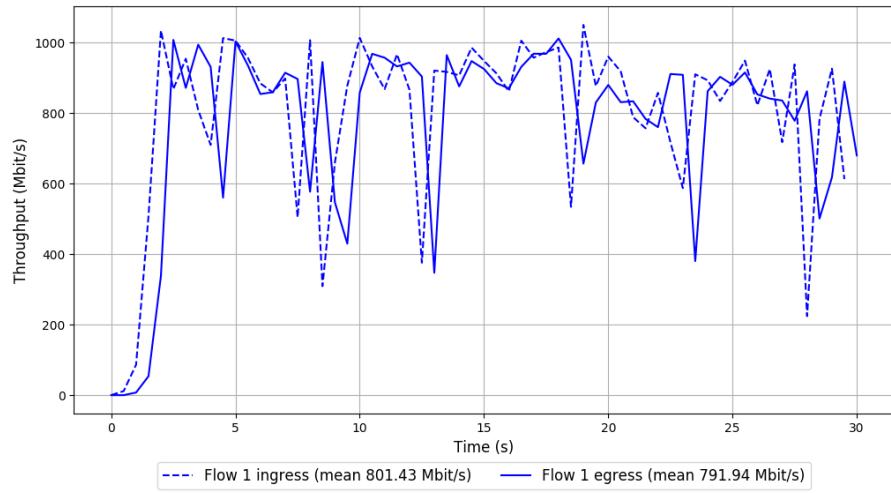


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-07-17 18:50:38
End at: 2019-07-17 18:51:08
Local clock offset: 1.567 ms
Remote clock offset: 1.27 ms

# Below is generated by plot.py at 2019-07-17 19:57:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 791.94 Mbit/s
95th percentile per-packet one-way delay: 172.837 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 791.94 Mbit/s
95th percentile per-packet one-way delay: 172.837 ms
Loss rate: 1.46%
```

Run 5: Report of FillP-Sheep — Data Link

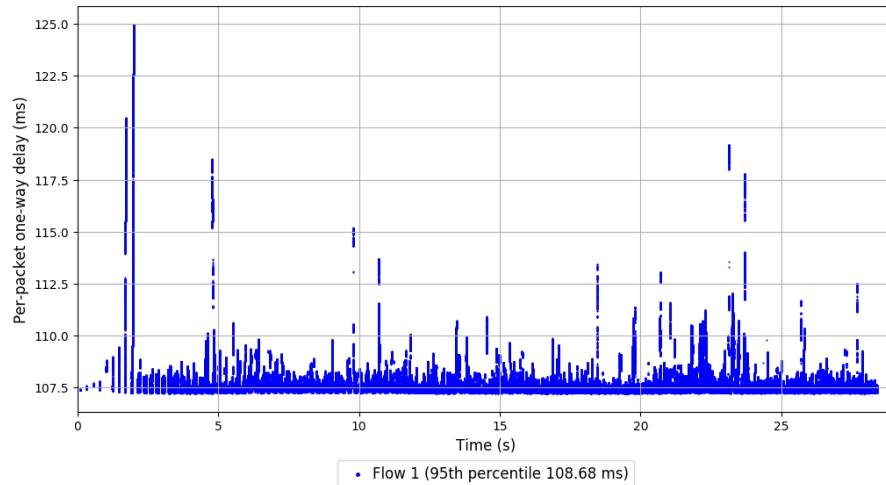
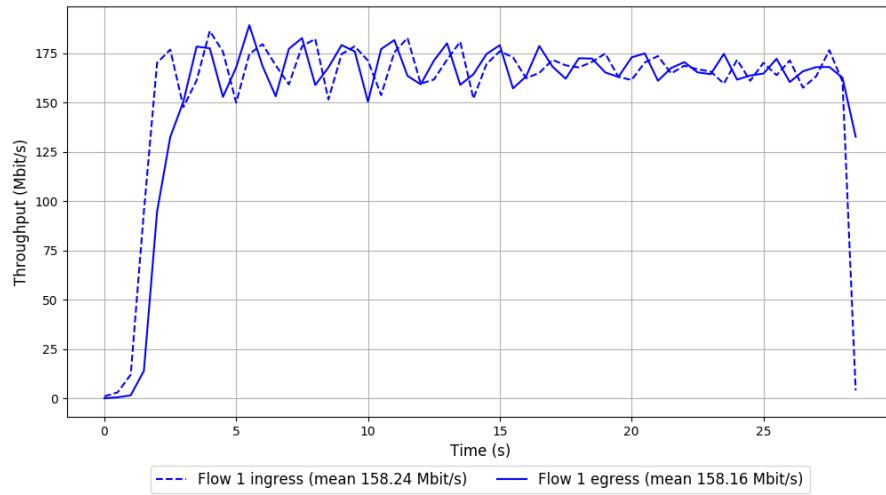


Run 1: Statistics of Indigo

```
Start at: 2019-07-17 16:15:35
End at: 2019-07-17 16:16:05
Local clock offset: 13.678 ms
Remote clock offset: 12.714 ms

# Below is generated by plot.py at 2019-07-17 19:57:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 158.16 Mbit/s
95th percentile per-packet one-way delay: 108.677 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 158.16 Mbit/s
95th percentile per-packet one-way delay: 108.677 ms
Loss rate: 0.80%
```

Run 1: Report of Indigo — Data Link

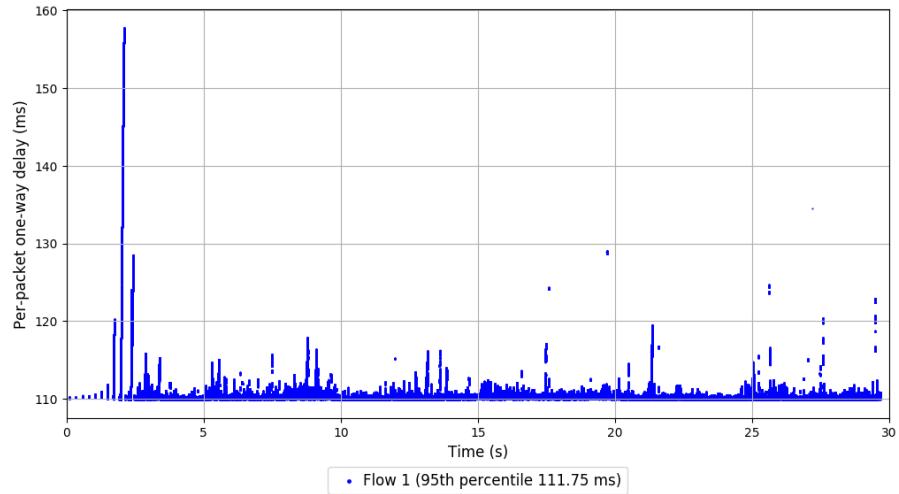
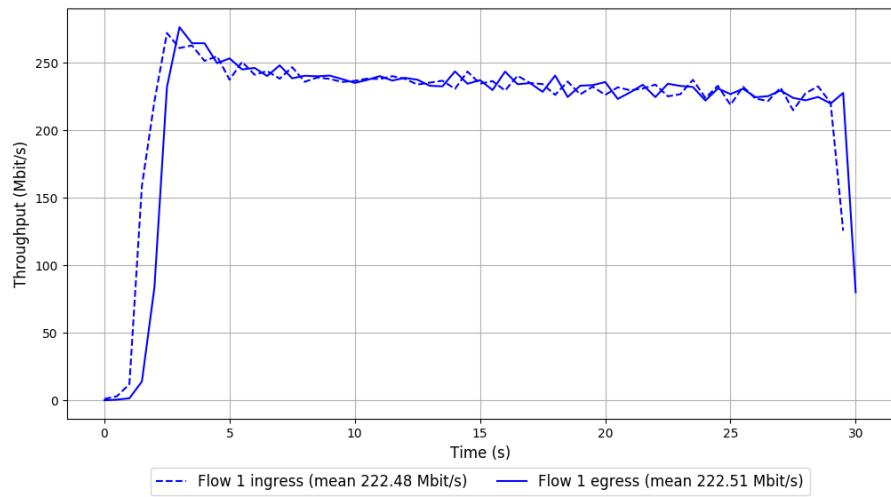


Run 2: Statistics of Indigo

```
Start at: 2019-07-17 16:51:20
End at: 2019-07-17 16:51:50
Local clock offset: 28.827 ms
Remote clock offset: 28.02 ms

# Below is generated by plot.py at 2019-07-17 19:57:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.51 Mbit/s
95th percentile per-packet one-way delay: 111.752 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 222.51 Mbit/s
95th percentile per-packet one-way delay: 111.752 ms
Loss rate: 0.73%
```

Run 2: Report of Indigo — Data Link

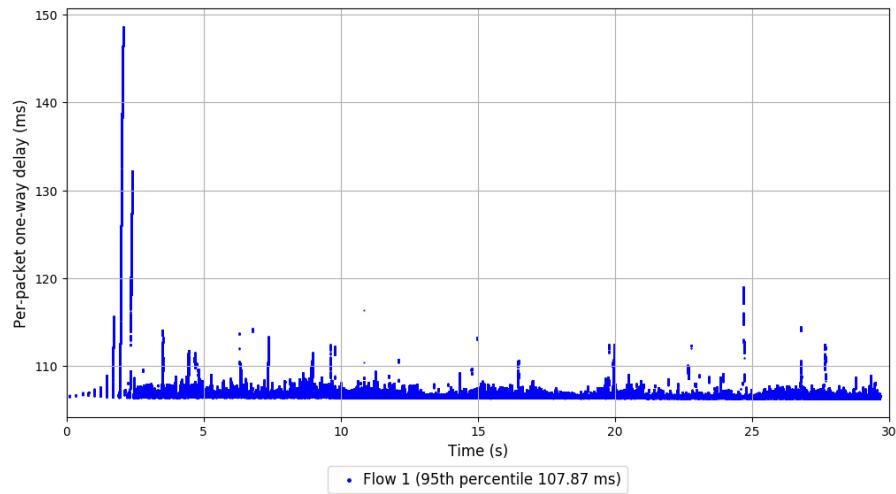
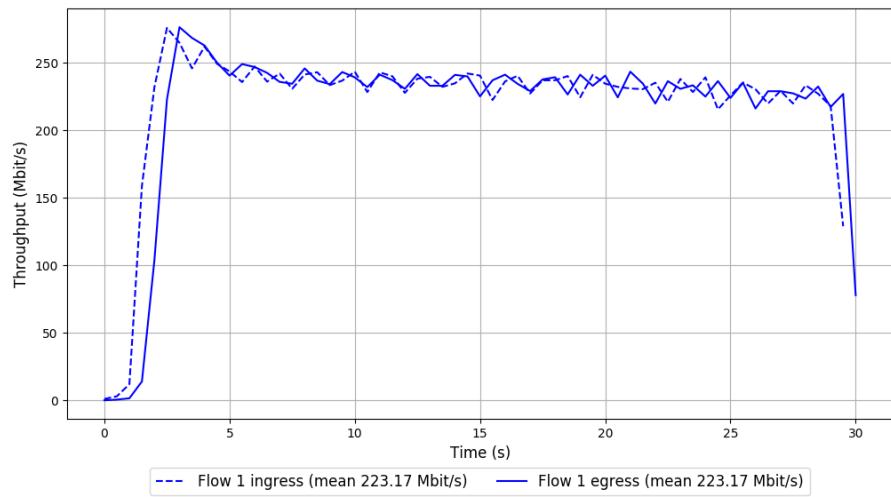


Run 3: Statistics of Indigo

```
Start at: 2019-07-17 17:27:23
End at: 2019-07-17 17:27:53
Local clock offset: 16.539 ms
Remote clock offset: 8.951 ms

# Below is generated by plot.py at 2019-07-17 19:57:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.17 Mbit/s
95th percentile per-packet one-way delay: 107.868 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 223.17 Mbit/s
95th percentile per-packet one-way delay: 107.868 ms
Loss rate: 0.73%
```

Run 3: Report of Indigo — Data Link

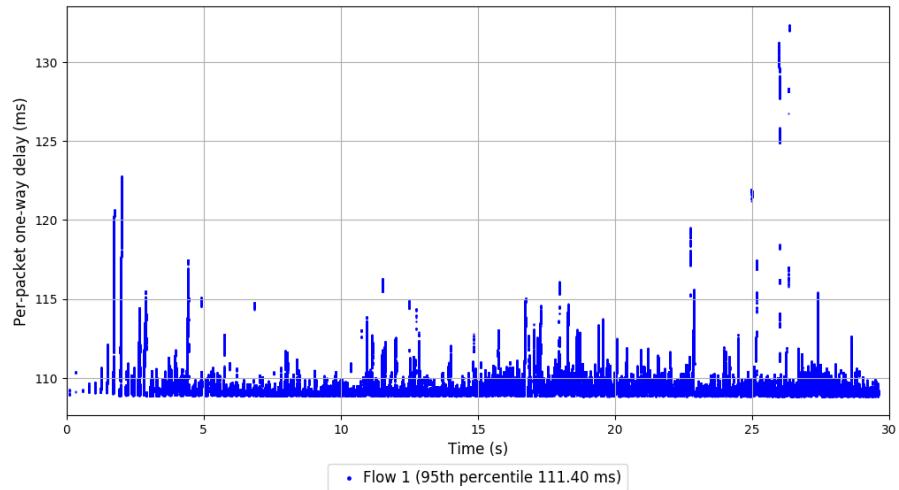
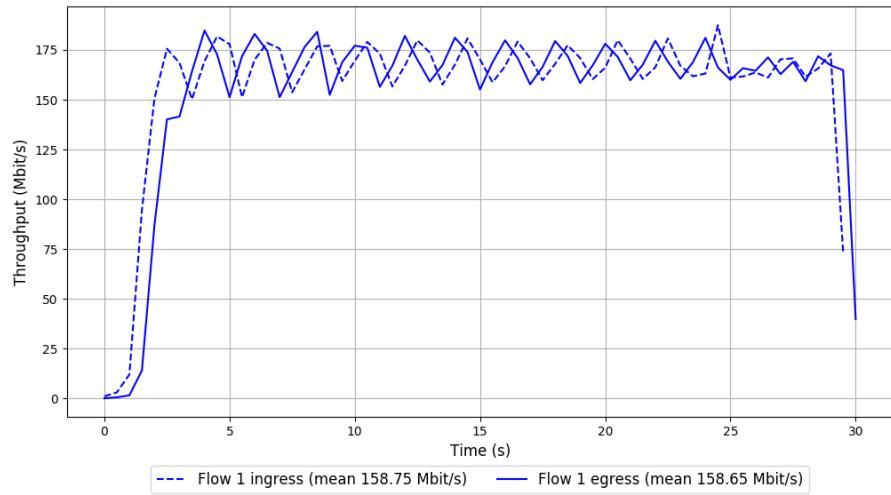


Run 4: Statistics of Indigo

```
Start at: 2019-07-17 18:03:44
End at: 2019-07-17 18:04:14
Local clock offset: 8.201 ms
Remote clock offset: 3.86 ms

# Below is generated by plot.py at 2019-07-17 19:57:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 158.65 Mbit/s
95th percentile per-packet one-way delay: 111.402 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 158.65 Mbit/s
95th percentile per-packet one-way delay: 111.402 ms
Loss rate: 0.80%
```

Run 4: Report of Indigo — Data Link

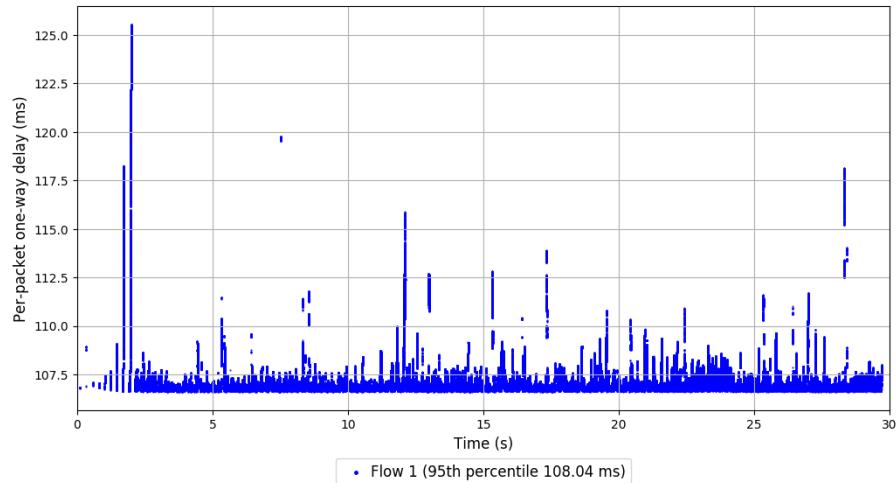
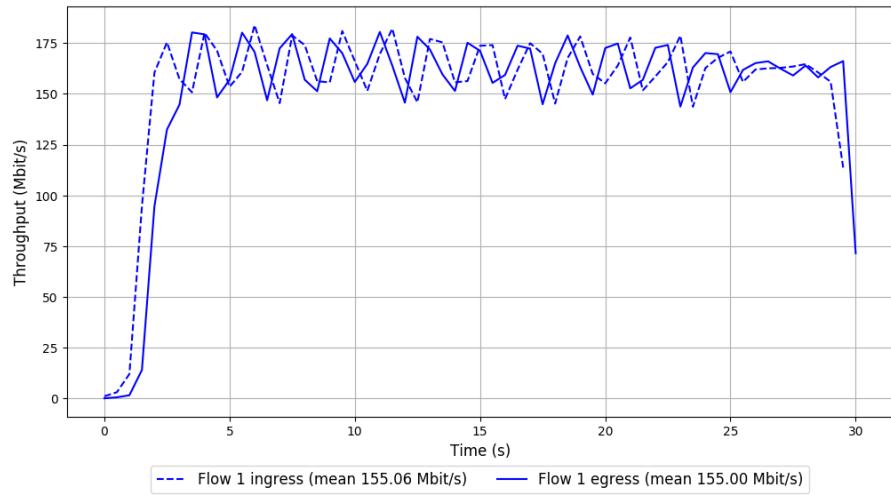


Run 5: Statistics of Indigo

```
Start at: 2019-07-17 18:40:02
End at: 2019-07-17 18:40:32
Local clock offset: 2.372 ms
Remote clock offset: 1.901 ms

# Below is generated by plot.py at 2019-07-17 19:57:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.00 Mbit/s
95th percentile per-packet one-way delay: 108.040 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 155.00 Mbit/s
95th percentile per-packet one-way delay: 108.040 ms
Loss rate: 0.77%
```

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

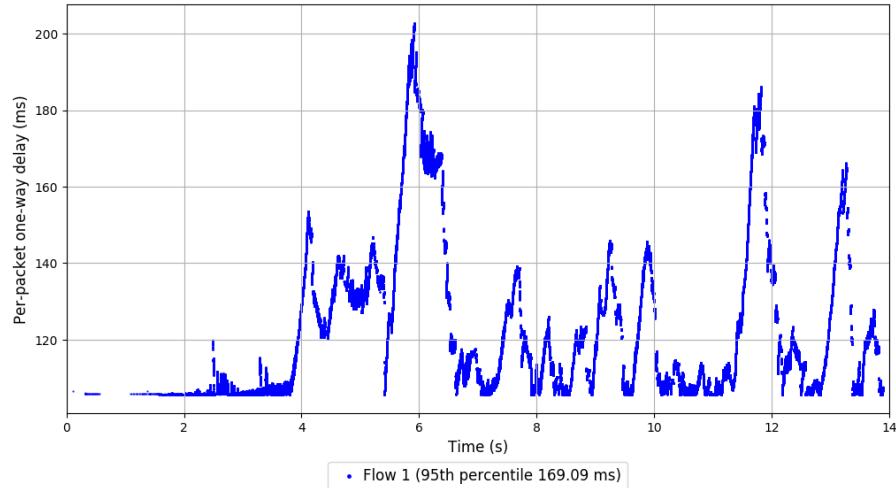
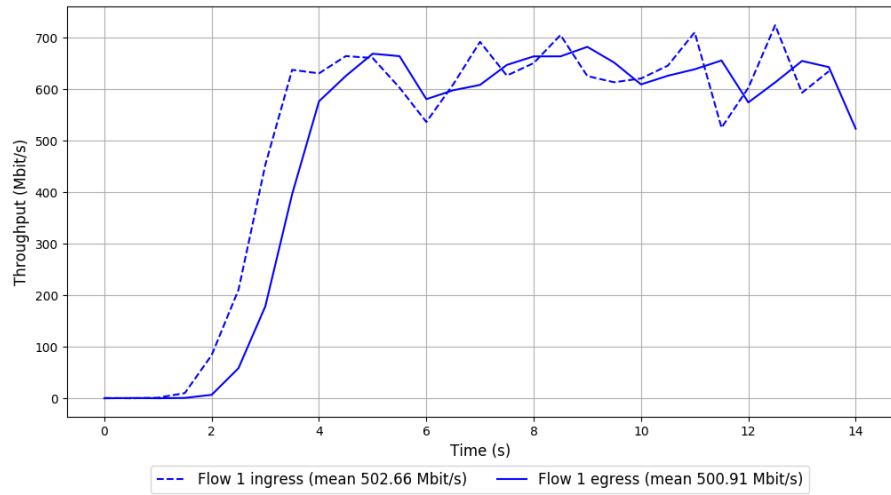
Start at: 2019-07-17 15:56:21

End at: 2019-07-17 15:56:51

Local clock offset: 4.269 ms

Remote clock offset: 4.584 ms

Run 1: Report of Indigo-MusesC3 — Data Link

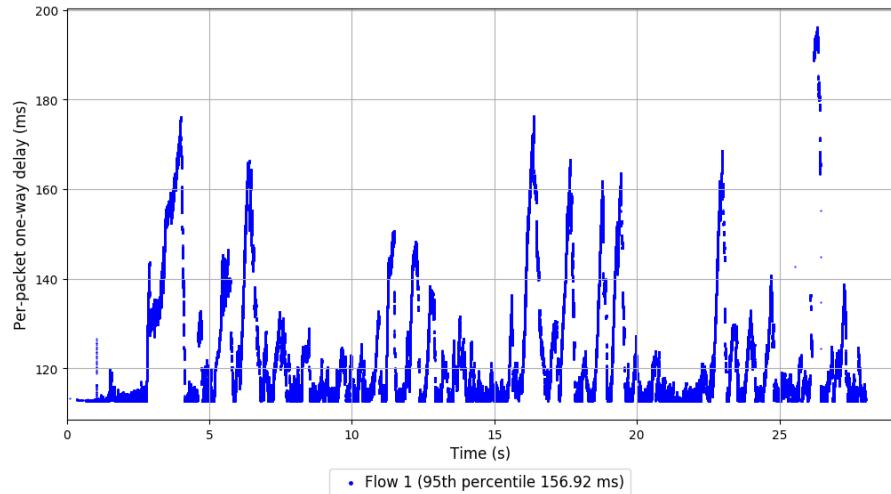
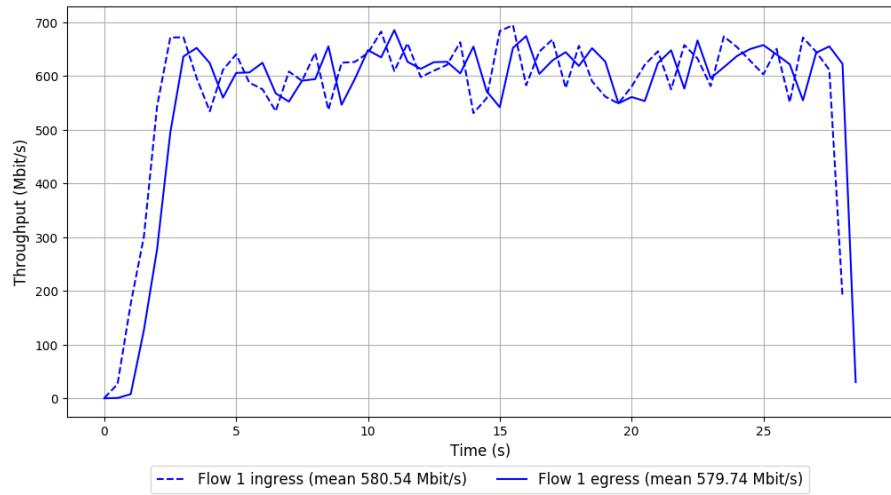


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-07-17 16:32:08
End at: 2019-07-17 16:32:38
Local clock offset: 22.611 ms
Remote clock offset: 21.437 ms

# Below is generated by plot.py at 2019-07-17 19:57:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.74 Mbit/s
95th percentile per-packet one-way delay: 156.918 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 579.74 Mbit/s
95th percentile per-packet one-way delay: 156.918 ms
Loss rate: 0.93%
```

Run 2: Report of Indigo-MusesC3 — Data Link

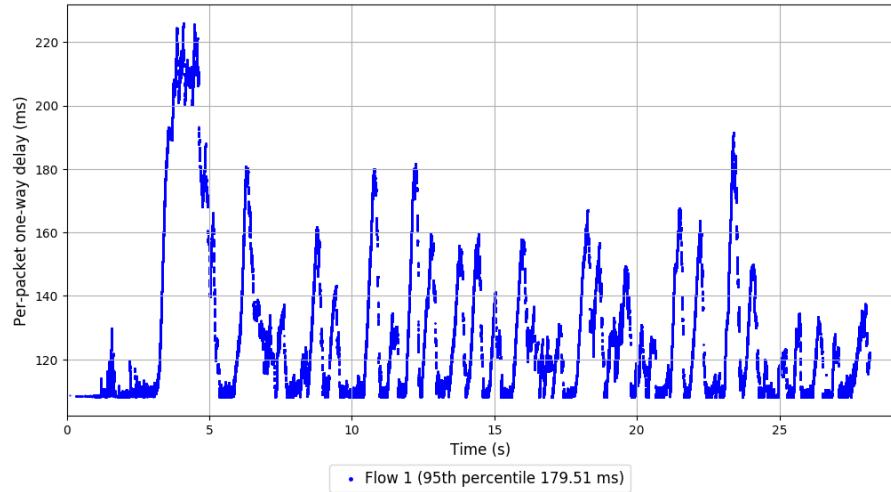
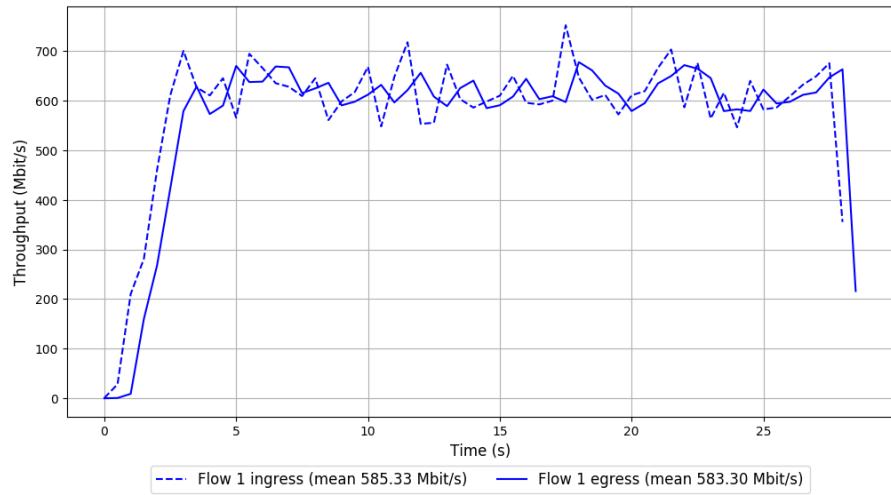


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-07-17 17:08:07
End at: 2019-07-17 17:08:37
Local clock offset: 26.423 ms
Remote clock offset: 22.477 ms

# Below is generated by plot.py at 2019-07-17 19:57:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 583.30 Mbit/s
95th percentile per-packet one-way delay: 179.512 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 583.30 Mbit/s
95th percentile per-packet one-way delay: 179.512 ms
Loss rate: 1.11%
```

Run 3: Report of Indigo-MusesC3 — Data Link

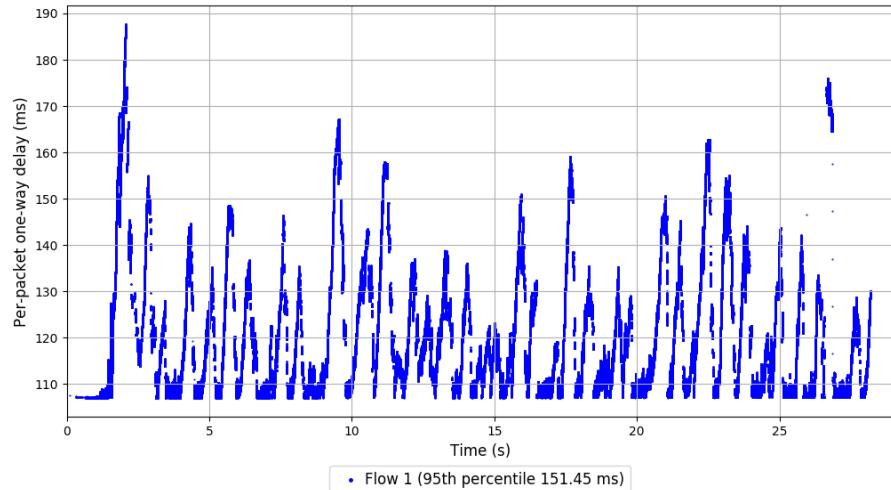
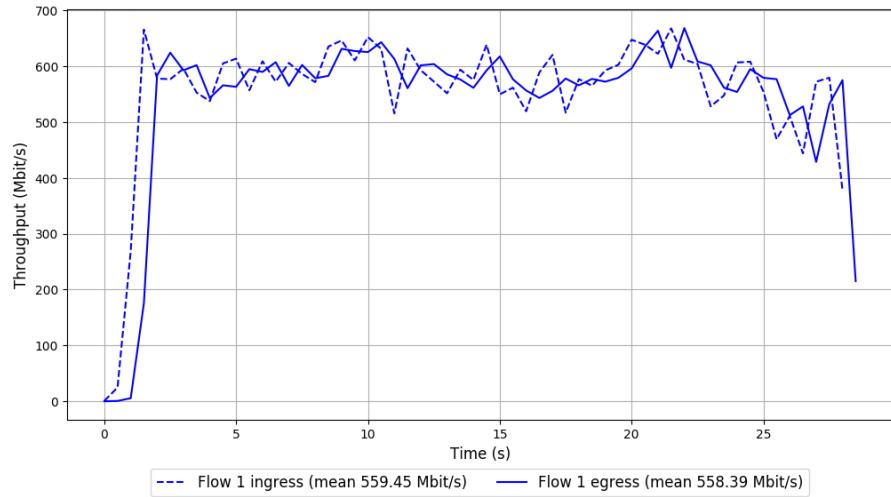


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-07-17 17:44:11
End at: 2019-07-17 17:44:41
Local clock offset: 10.821 ms
Remote clock offset: 5.167 ms

# Below is generated by plot.py at 2019-07-17 19:57:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.39 Mbit/s
95th percentile per-packet one-way delay: 151.453 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 558.39 Mbit/s
95th percentile per-packet one-way delay: 151.453 ms
Loss rate: 0.96%
```

Run 4: Report of Indigo-MusesC3 — Data Link

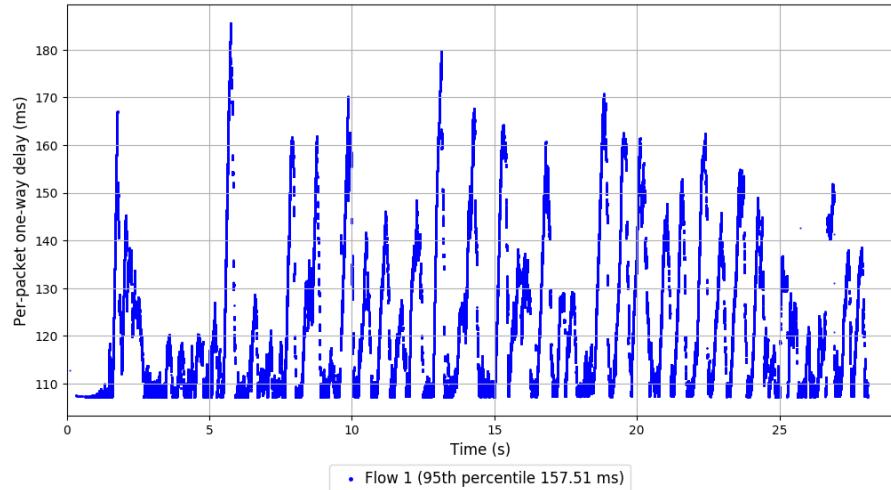
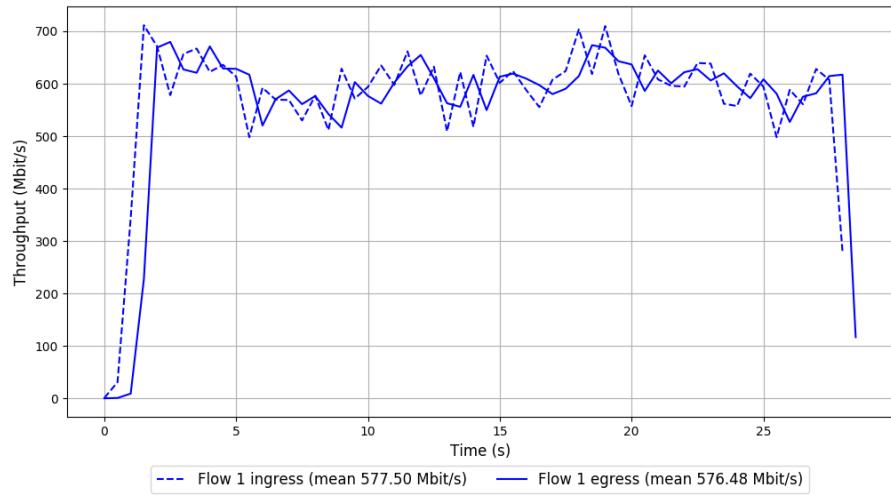


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-07-17 18:20:29
End at: 2019-07-17 18:20:59
Local clock offset: 4.327 ms
Remote clock offset: 2.006 ms

# Below is generated by plot.py at 2019-07-17 19:58:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 576.48 Mbit/s
95th percentile per-packet one-way delay: 157.512 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 576.48 Mbit/s
95th percentile per-packet one-way delay: 157.512 ms
Loss rate: 0.96%
```

Run 5: Report of Indigo-MusesC3 — Data Link

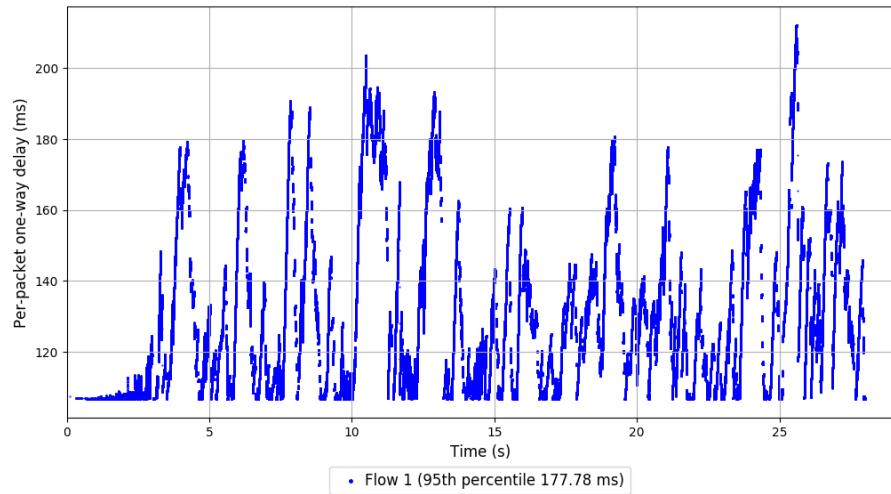
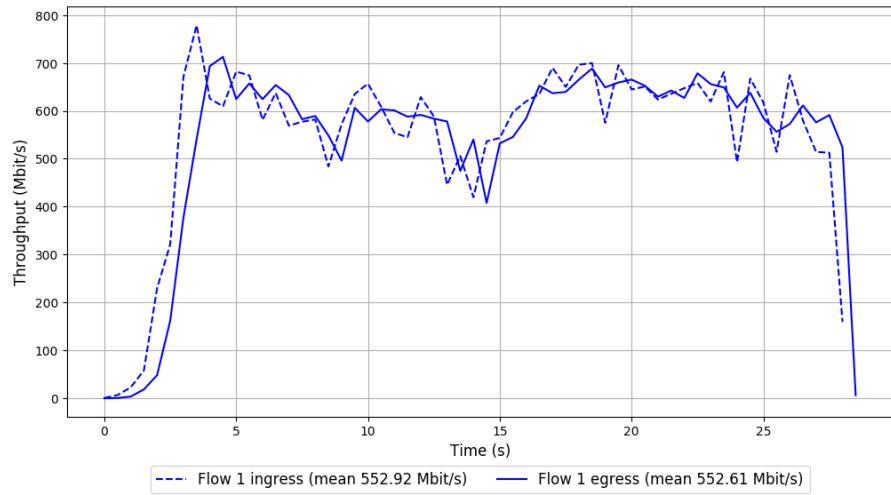


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-07-17 16:30:30
End at: 2019-07-17 16:31:01
Local clock offset: 23.838 ms
Remote clock offset: 23.104 ms

# Below is generated by plot.py at 2019-07-17 19:58:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 552.61 Mbit/s
95th percentile per-packet one-way delay: 177.785 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 552.61 Mbit/s
95th percentile per-packet one-way delay: 177.785 ms
Loss rate: 0.85%
```

Run 1: Report of Indigo-MusesC5 — Data Link

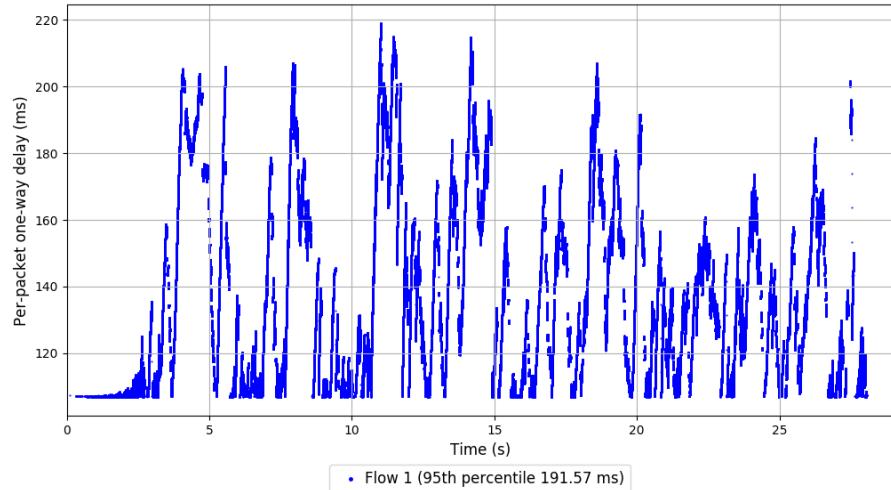
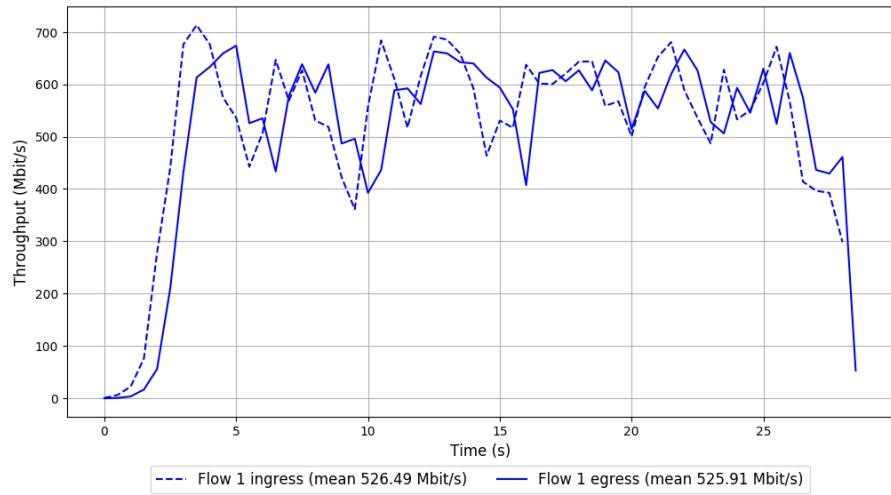


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-07-17 17:06:31
End at: 2019-07-17 17:07:01
Local clock offset: 28.796 ms
Remote clock offset: 26.35 ms

# Below is generated by plot.py at 2019-07-17 19:58:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 525.91 Mbit/s
95th percentile per-packet one-way delay: 191.566 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 525.91 Mbit/s
95th percentile per-packet one-way delay: 191.566 ms
Loss rate: 1.05%
```

Run 2: Report of Indigo-MusesC5 — Data Link

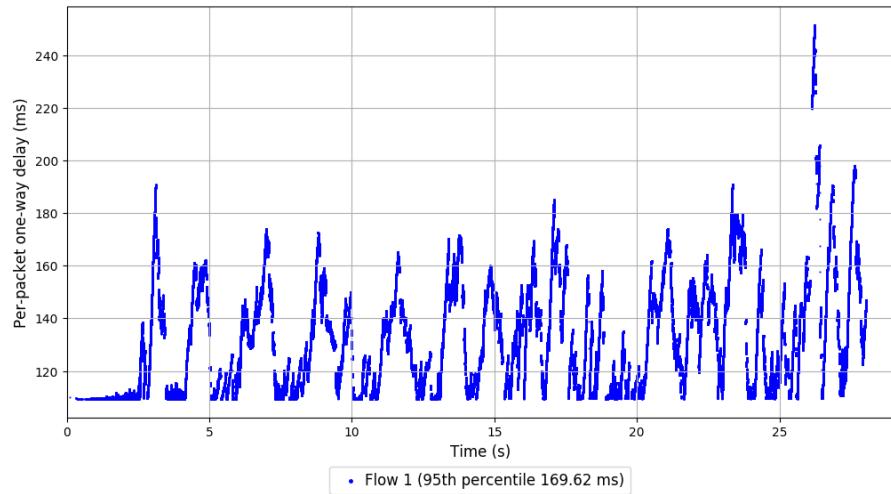
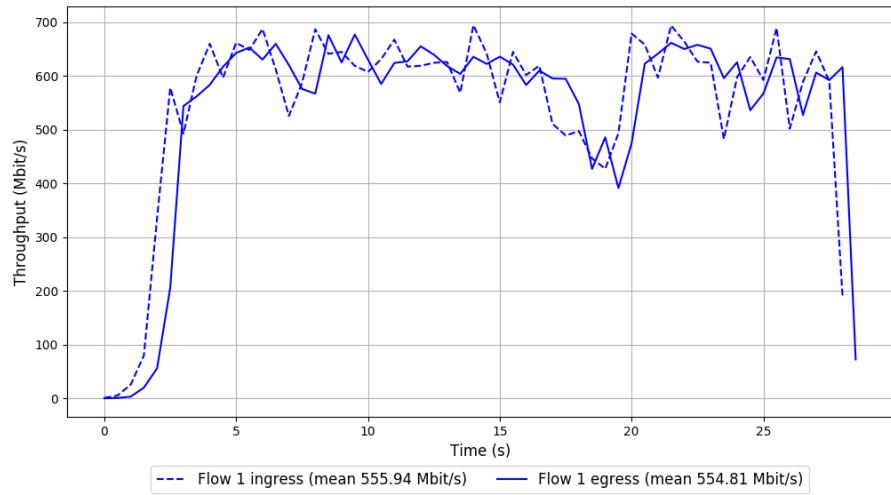


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-07-17 17:42:34
End at: 2019-07-17 17:43:04
Local clock offset: 12.295 ms
Remote clock offset: 5.784 ms

# Below is generated by plot.py at 2019-07-17 20:01:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 554.81 Mbit/s
95th percentile per-packet one-way delay: 169.616 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 554.81 Mbit/s
95th percentile per-packet one-way delay: 169.616 ms
Loss rate: 0.98%
```

Run 3: Report of Indigo-MusesC5 — Data Link

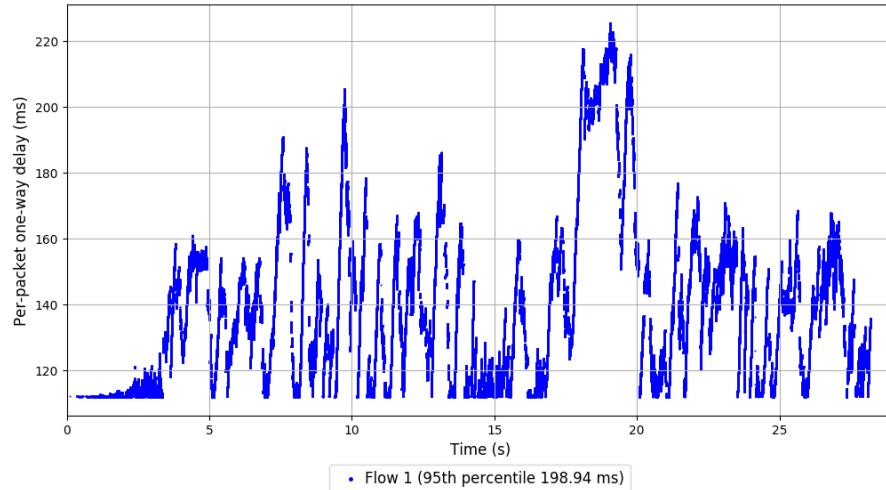
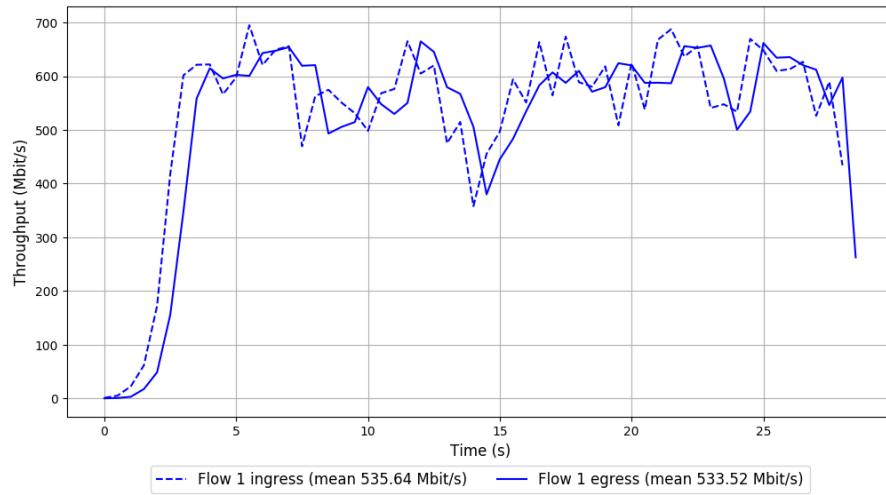


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-07-17 18:18:53
End at: 2019-07-17 18:19:23
Local clock offset: 4.645 ms
Remote clock offset: 2.247 ms

# Below is generated by plot.py at 2019-07-17 20:05:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.52 Mbit/s
95th percentile per-packet one-way delay: 198.936 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 533.52 Mbit/s
95th percentile per-packet one-way delay: 198.936 ms
Loss rate: 1.18%
```

Run 4: Report of Indigo-MusesC5 — Data Link

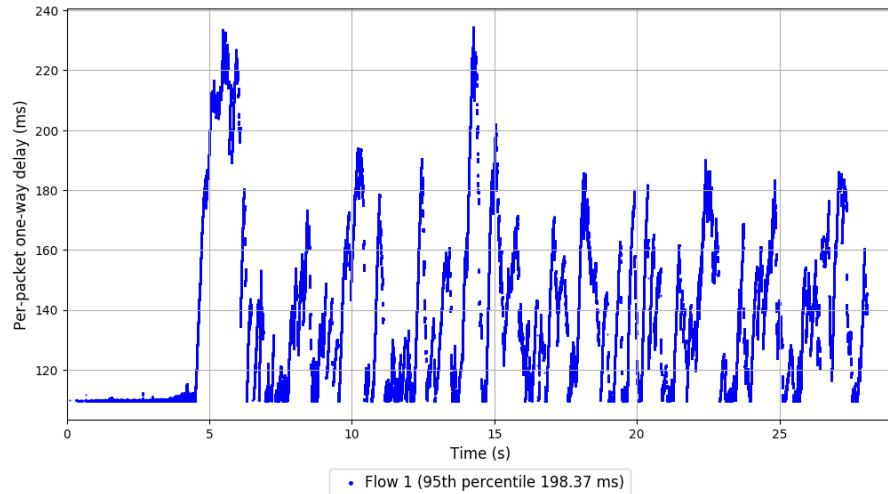
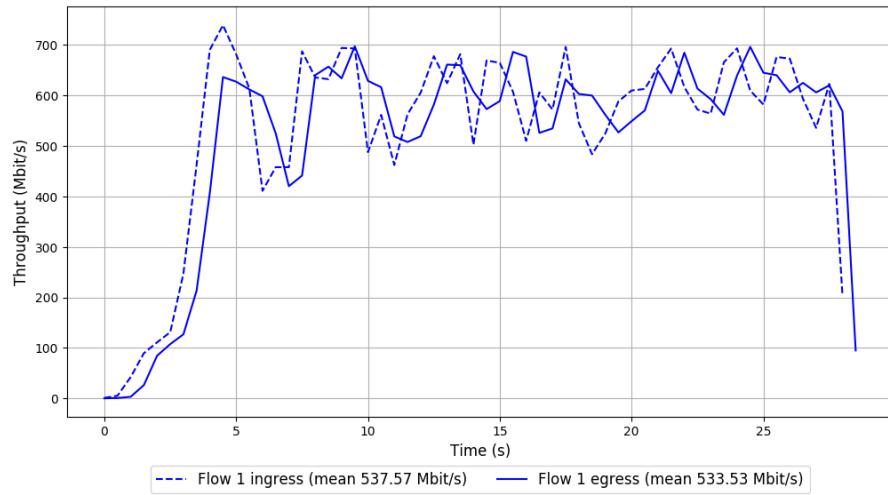


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-07-17 18:55:08
End at: 2019-07-17 18:55:38
Local clock offset: 0.973 ms
Remote clock offset: 0.951 ms

# Below is generated by plot.py at 2019-07-17 20:06:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.53 Mbit/s
95th percentile per-packet one-way delay: 198.370 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 533.53 Mbit/s
95th percentile per-packet one-way delay: 198.370 ms
Loss rate: 1.52%
```

Run 5: Report of Indigo-MusesC5 — Data Link

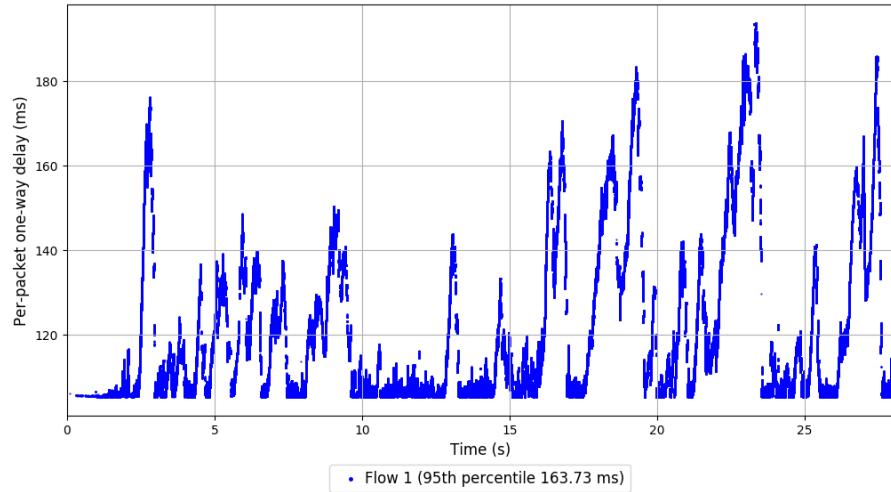
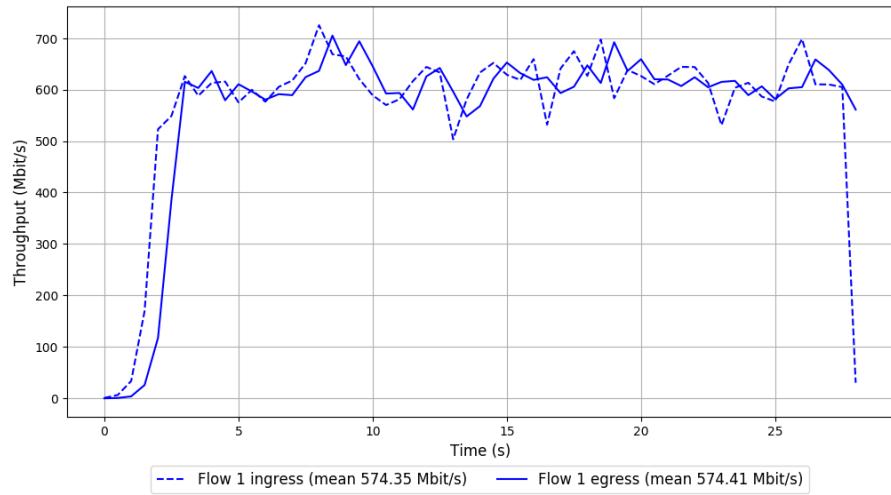


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-07-17 15:57:45
End at: 2019-07-17 15:58:15
Local clock offset: 4.486 ms
Remote clock offset: 4.861 ms

# Below is generated by plot.py at 2019-07-17 20:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 574.41 Mbit/s
95th percentile per-packet one-way delay: 163.731 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 574.41 Mbit/s
95th percentile per-packet one-way delay: 163.731 ms
Loss rate: 0.76%
```

Run 1: Report of Indigo-MusesD — Data Link

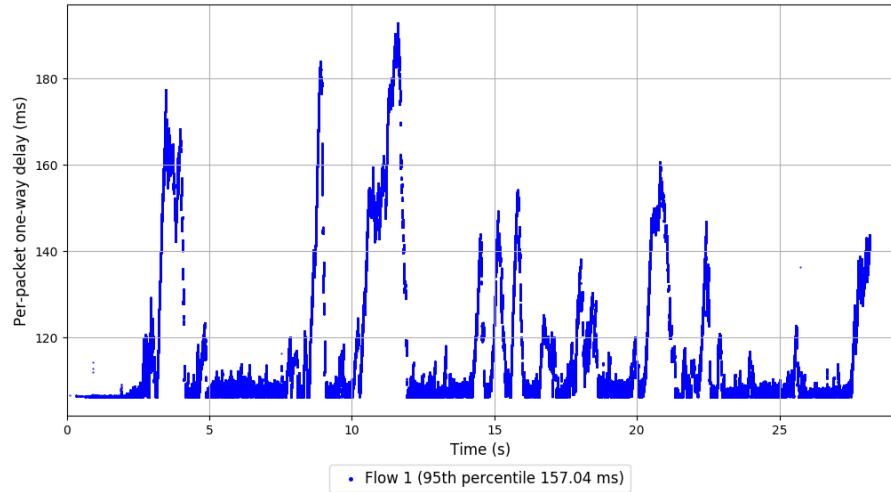
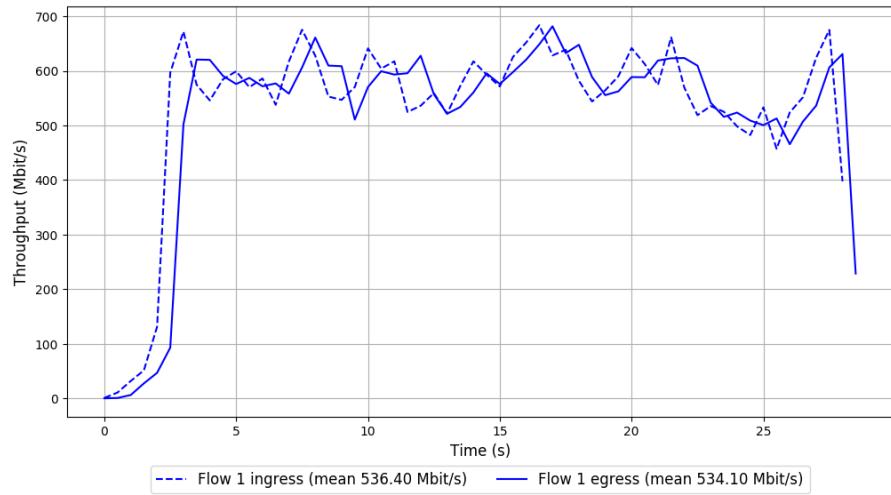


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-07-17 16:33:47
End at: 2019-07-17 16:34:17
Local clock offset: 20.516 ms
Remote clock offset: 20.342 ms

# Below is generated by plot.py at 2019-07-17 20:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.10 Mbit/s
95th percentile per-packet one-way delay: 157.044 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 534.10 Mbit/s
95th percentile per-packet one-way delay: 157.044 ms
Loss rate: 1.19%
```

Run 2: Report of Indigo-MusesD — Data Link

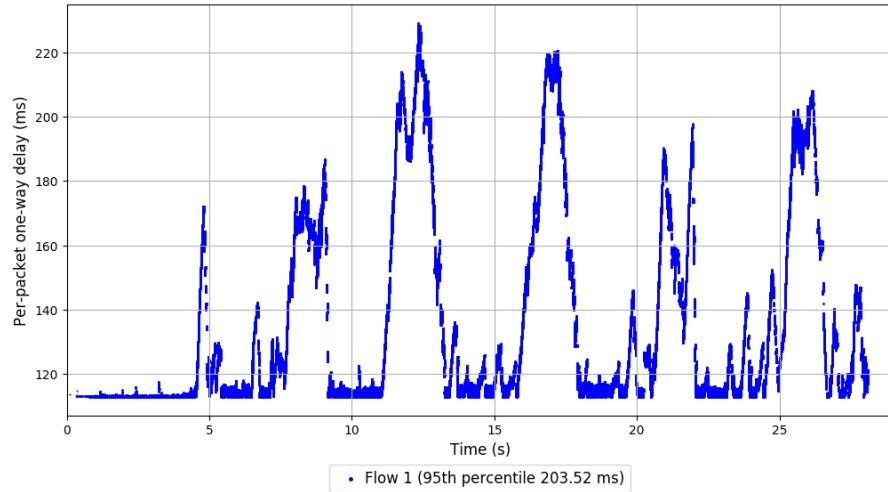
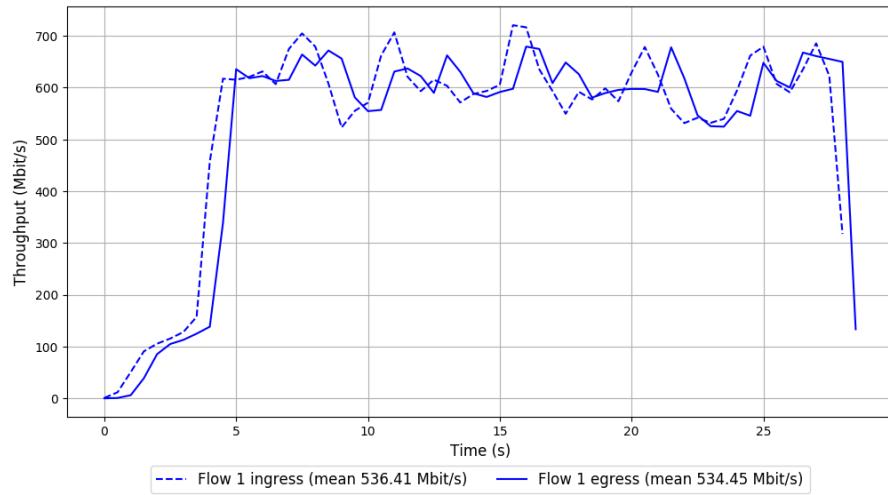


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-07-17 17:09:45
End at: 2019-07-17 17:10:15
Local clock offset: 22.58 ms
Remote clock offset: 19.047 ms

# Below is generated by plot.py at 2019-07-17 20:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.45 Mbit/s
95th percentile per-packet one-way delay: 203.519 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 534.45 Mbit/s
95th percentile per-packet one-way delay: 203.519 ms
Loss rate: 1.14%
```

Run 3: Report of Indigo-MusesD — Data Link

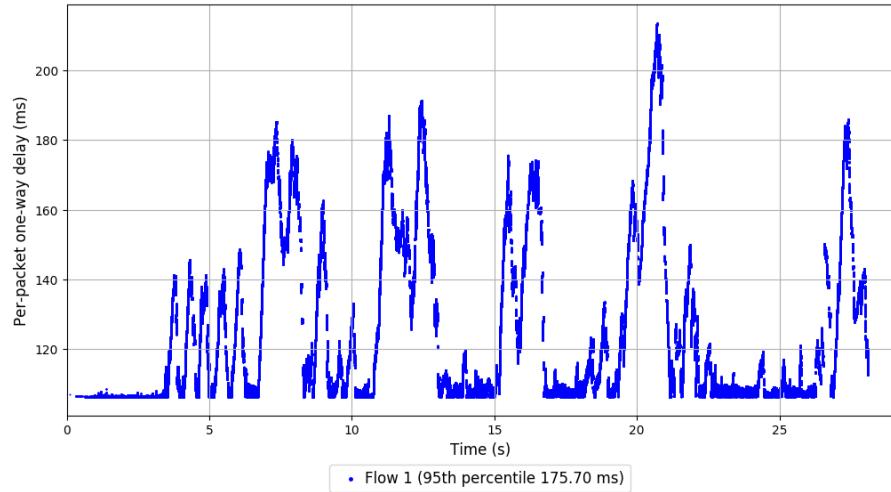
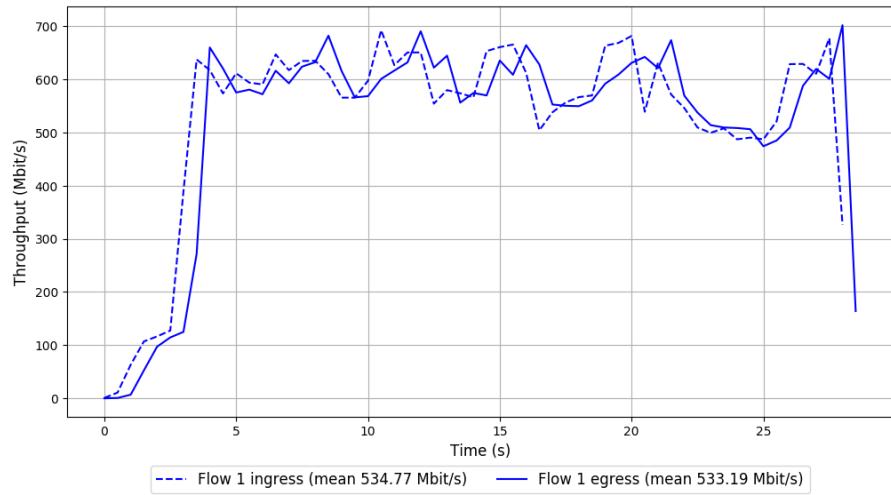


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-07-17 17:45:49
End at: 2019-07-17 17:46:19
Local clock offset: 9.801 ms
Remote clock offset: 4.607 ms

# Below is generated by plot.py at 2019-07-17 20:07:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.19 Mbit/s
95th percentile per-packet one-way delay: 175.701 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 533.19 Mbit/s
95th percentile per-packet one-way delay: 175.701 ms
Loss rate: 1.06%
```

Run 4: Report of Indigo-MusesD — Data Link

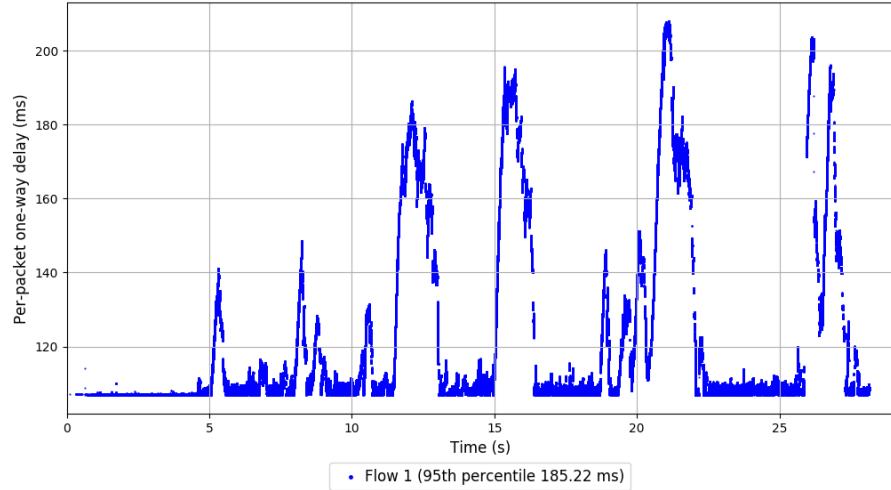
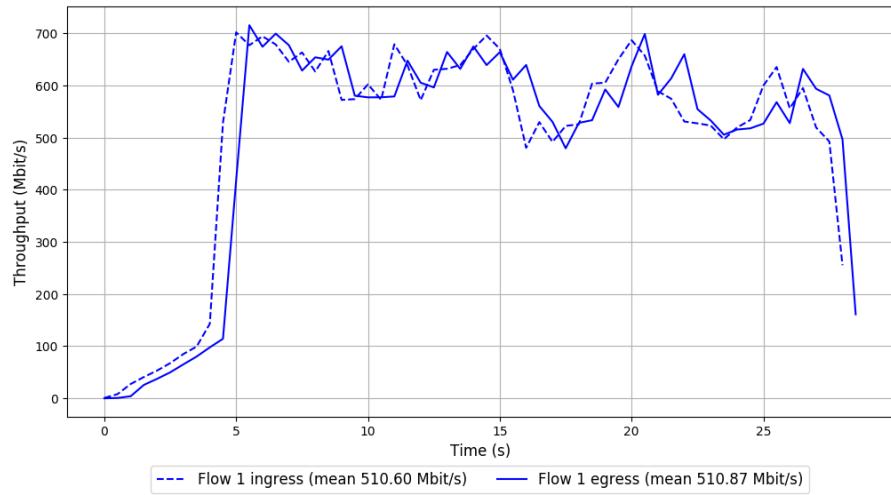


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-07-17 18:22:08
End at: 2019-07-17 18:22:38
Local clock offset: 3.683 ms
Remote clock offset: 1.884 ms

# Below is generated by plot.py at 2019-07-17 20:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 510.87 Mbit/s
95th percentile per-packet one-way delay: 185.216 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 510.87 Mbit/s
95th percentile per-packet one-way delay: 185.216 ms
Loss rate: 0.71%
```

Run 5: Report of Indigo-MusesD — Data Link

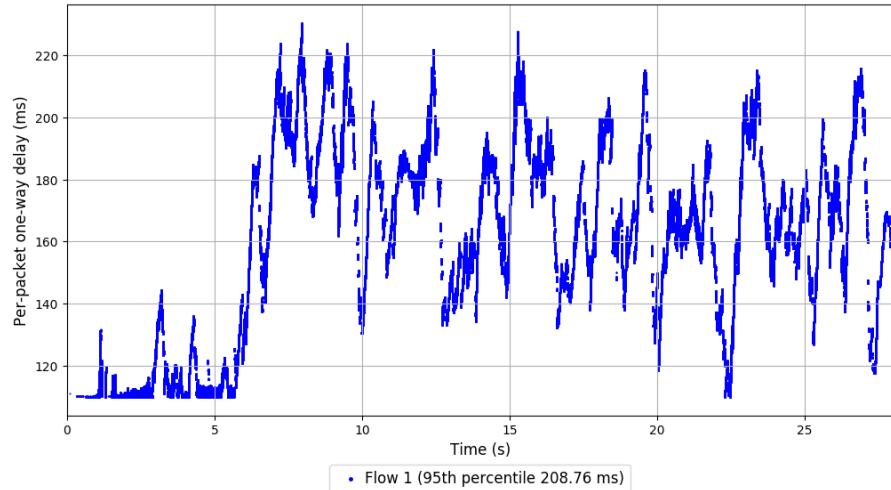
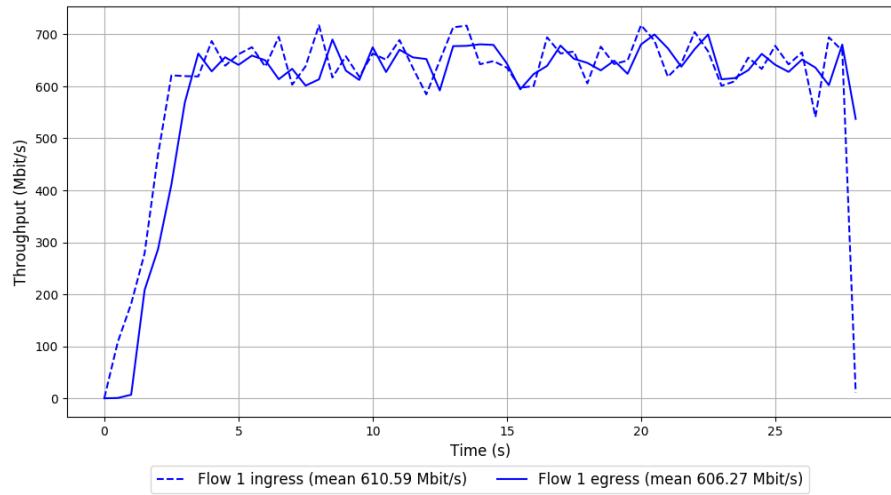


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-07-17 16:19:32
End at: 2019-07-17 16:20:02
Local clock offset: 15.638 ms
Remote clock offset: 15.1 ms

# Below is generated by plot.py at 2019-07-17 20:12:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 606.27 Mbit/s
95th percentile per-packet one-way delay: 208.760 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 606.27 Mbit/s
95th percentile per-packet one-way delay: 208.760 ms
Loss rate: 1.47%
```

Run 1: Report of Indigo-MusesT — Data Link

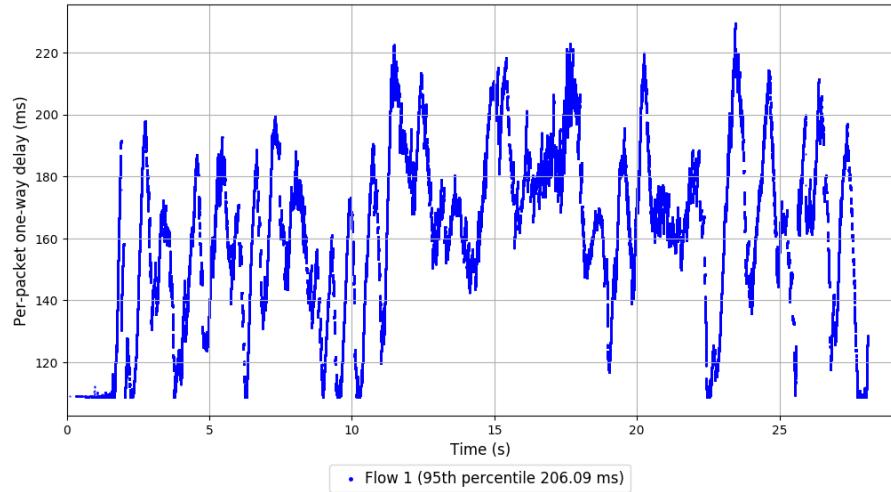
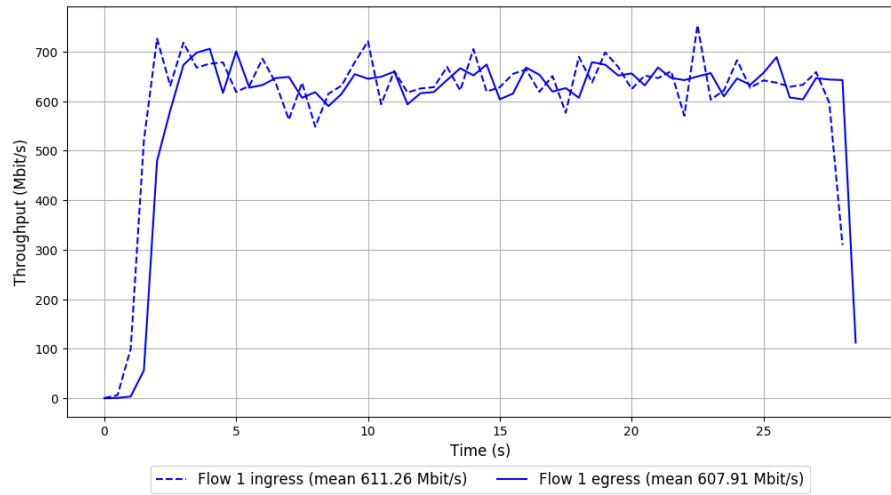


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-07-17 16:55:25
End at: 2019-07-17 16:55:55
Local clock offset: 32.926 ms
Remote clock offset: 32.05 ms

# Below is generated by plot.py at 2019-07-17 20:15:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.91 Mbit/s
95th percentile per-packet one-way delay: 206.095 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 607.91 Mbit/s
95th percentile per-packet one-way delay: 206.095 ms
Loss rate: 1.32%
```

Run 2: Report of Indigo-MusesT — Data Link

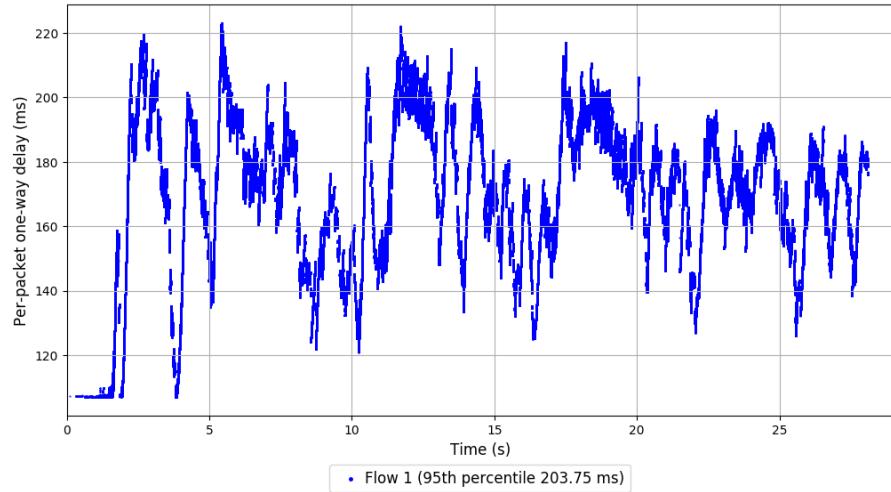
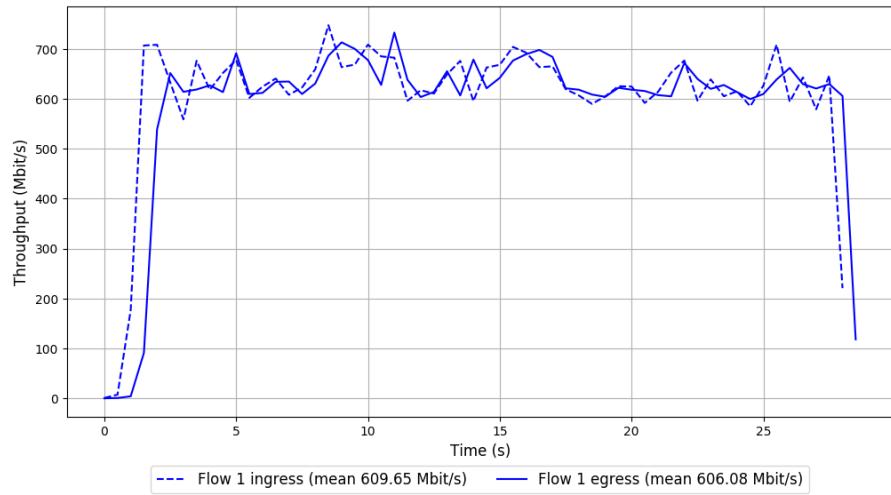


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-07-17 17:31:30
End at: 2019-07-17 17:32:00
Local clock offset: 18.215 ms
Remote clock offset: 8.887 ms

# Below is generated by plot.py at 2019-07-17 20:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 606.08 Mbit/s
95th percentile per-packet one-way delay: 203.749 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 606.08 Mbit/s
95th percentile per-packet one-way delay: 203.749 ms
Loss rate: 1.34%
```

Run 3: Report of Indigo-MusesT — Data Link

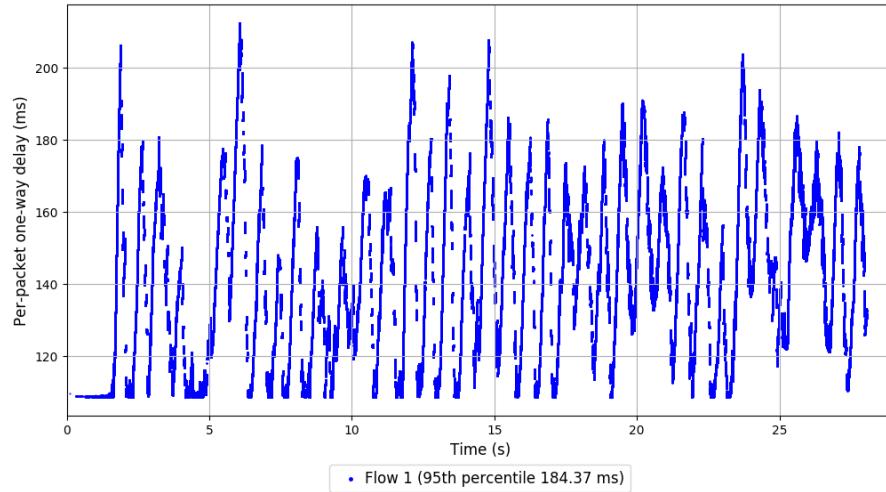
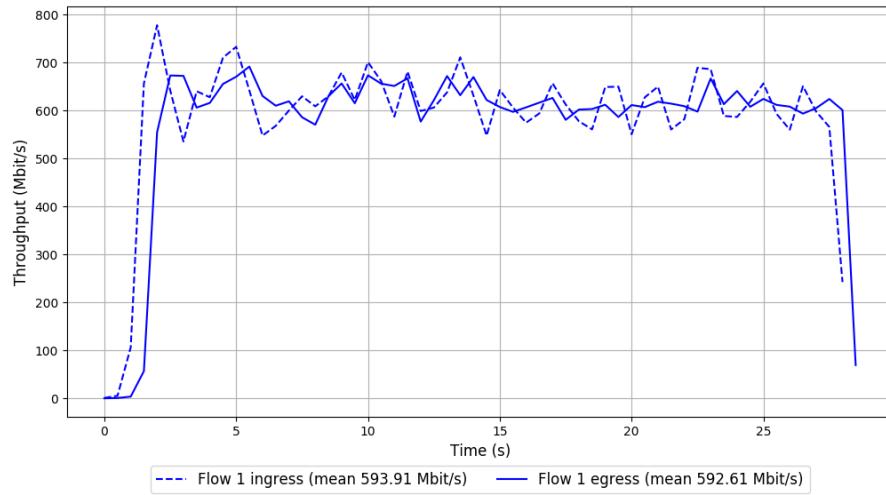


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-07-17 18:07:41
End at: 2019-07-17 18:08:11
Local clock offset: 9.133 ms
Remote clock offset: 4.286 ms

# Below is generated by plot.py at 2019-07-17 20:16:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 592.61 Mbit/s
95th percentile per-packet one-way delay: 184.373 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 592.61 Mbit/s
95th percentile per-packet one-way delay: 184.373 ms
Loss rate: 1.00%
```

Run 4: Report of Indigo-MusesT — Data Link

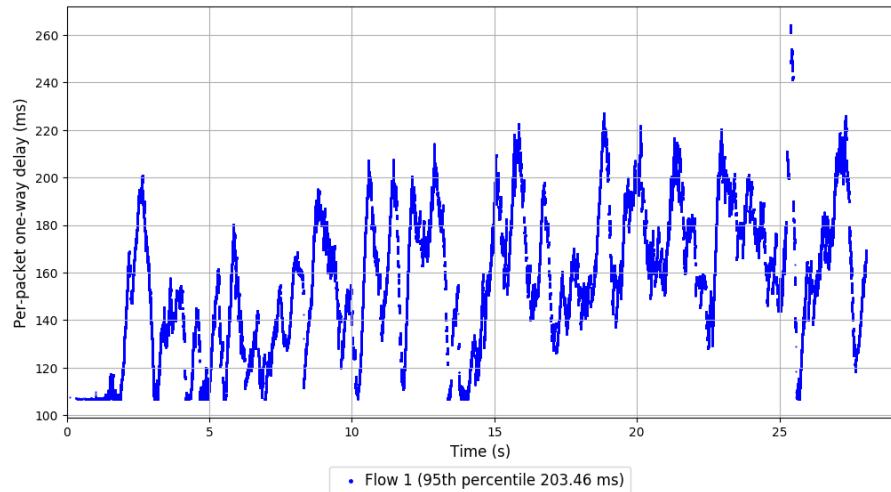
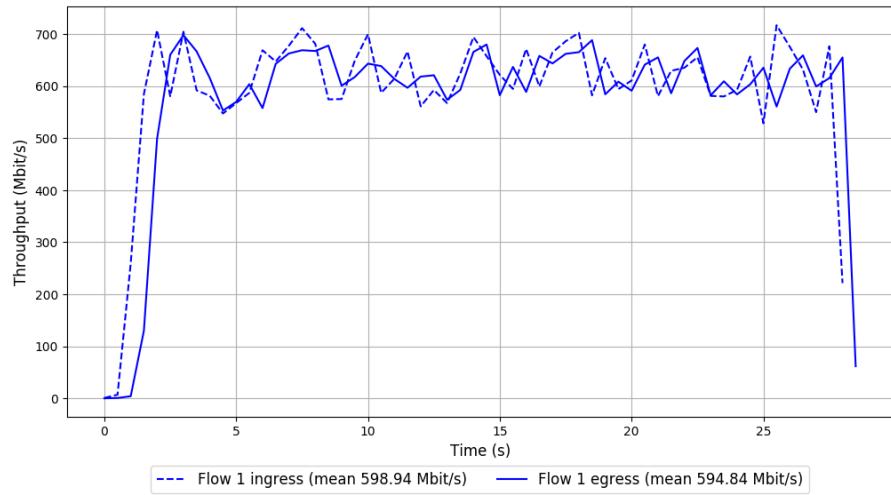


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-07-17 18:44:02
End at: 2019-07-17 18:44:32
Local clock offset: 2.647 ms
Remote clock offset: 2.068 ms

# Below is generated by plot.py at 2019-07-17 20:16:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 594.84 Mbit/s
95th percentile per-packet one-way delay: 203.460 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 594.84 Mbit/s
95th percentile per-packet one-way delay: 203.460 ms
Loss rate: 1.45%
```

Run 5: Report of Indigo-MusesT — Data Link

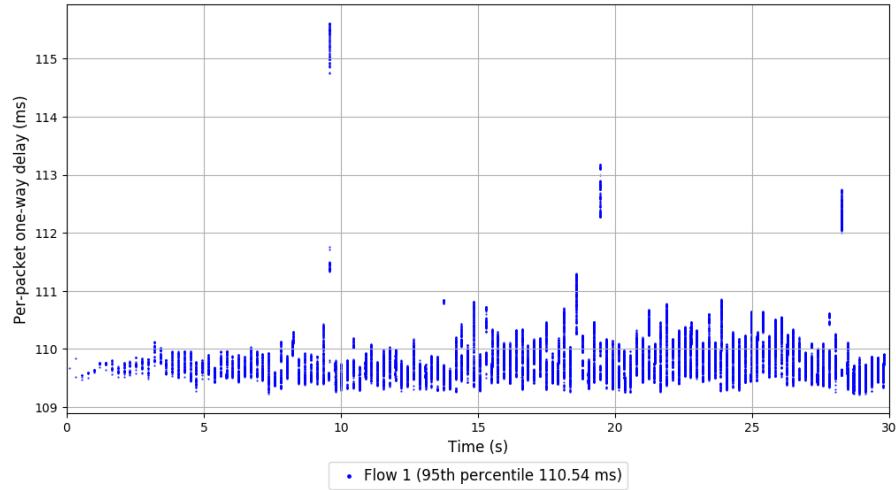
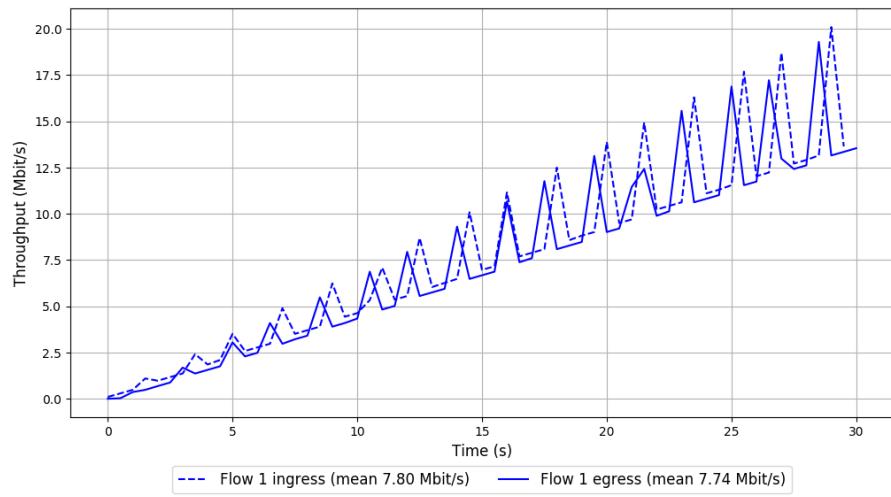


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-07-17 16:00:58
End at: 2019-07-17 16:01:28
Local clock offset: 7.214 ms
Remote clock offset: 7.475 ms

# Below is generated by plot.py at 2019-07-17 20:16:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 110.542 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 110.542 ms
Loss rate: 1.47%
```

Run 1: Report of LEDBAT — Data Link

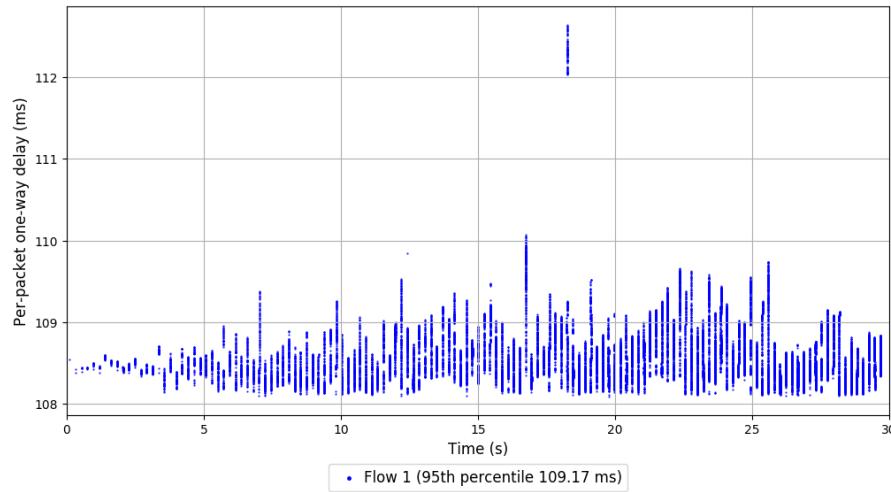
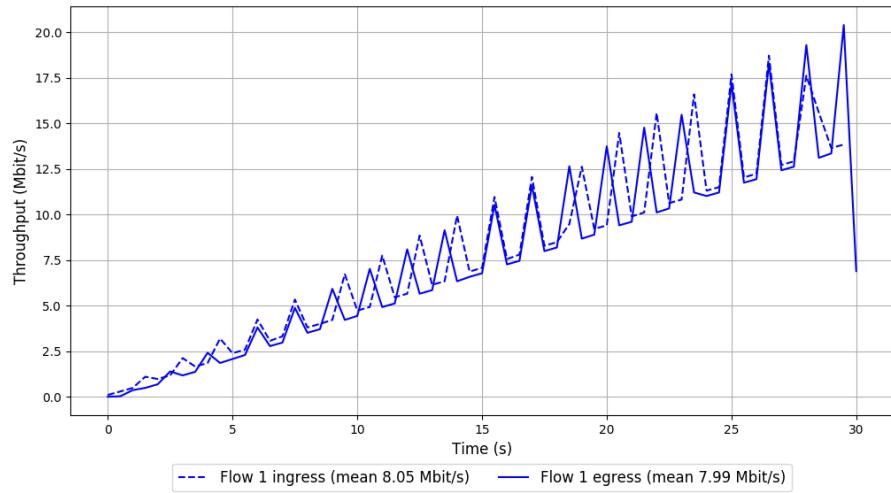


Run 2: Statistics of LEDBAT

```
Start at: 2019-07-17 16:36:57
End at: 2019-07-17 16:37:27
Local clock offset: 19.611 ms
Remote clock offset: 19.546 ms

# Below is generated by plot.py at 2019-07-17 20:16:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 109.171 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 109.171 ms
Loss rate: 1.45%
```

Run 2: Report of LEDBAT — Data Link

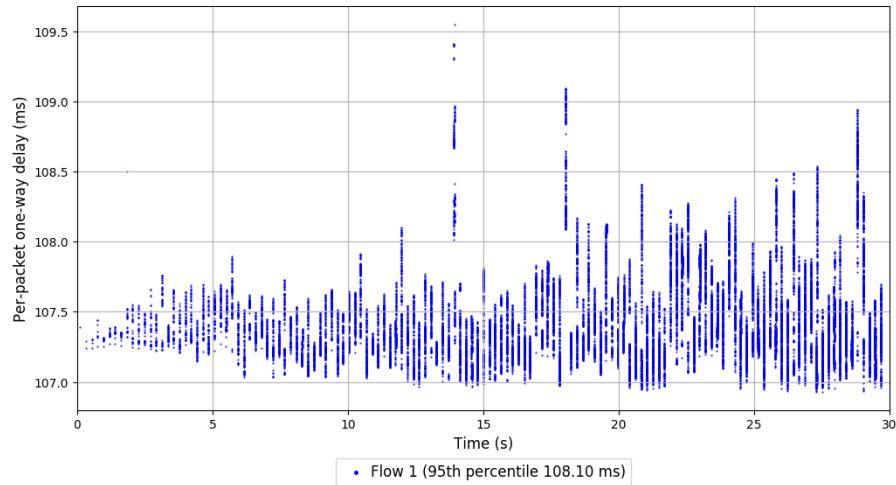
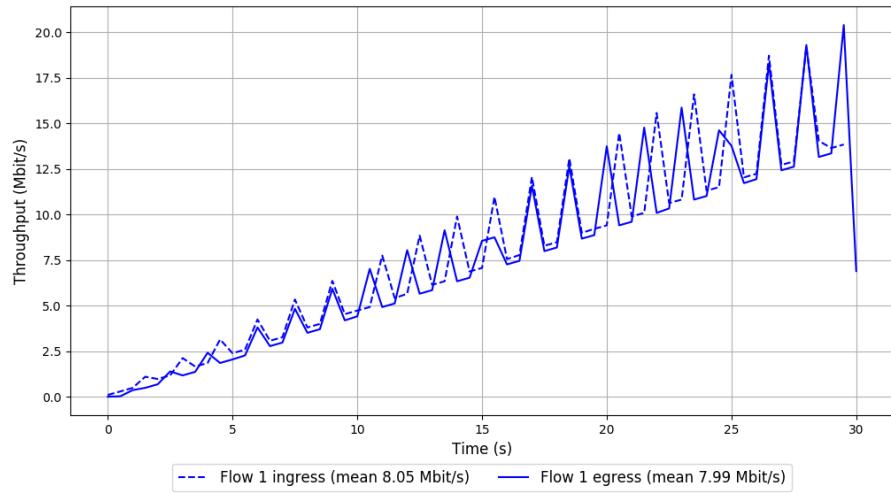


Run 3: Statistics of LEDBAT

```
Start at: 2019-07-17 17:12:52
End at: 2019-07-17 17:13:22
Local clock offset: 18.713 ms
Remote clock offset: 14.56 ms

# Below is generated by plot.py at 2019-07-17 20:16:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 108.103 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 108.103 ms
Loss rate: 1.45%
```

Run 3: Report of LEDBAT — Data Link

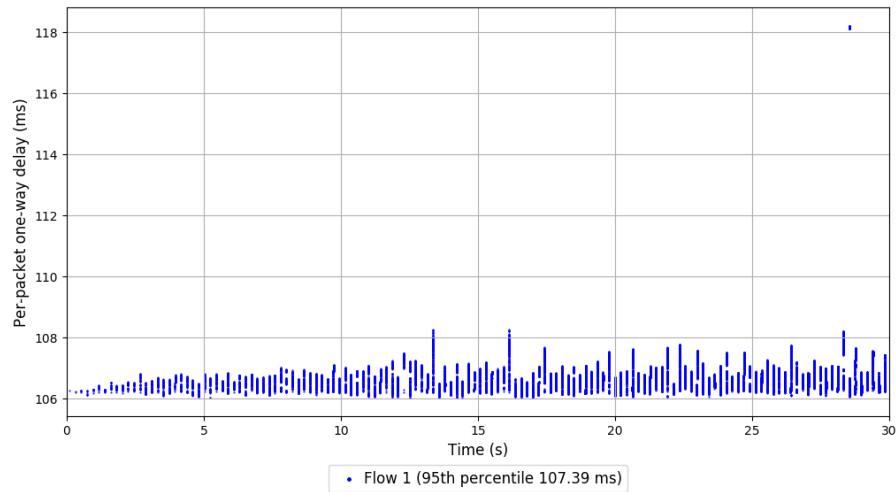
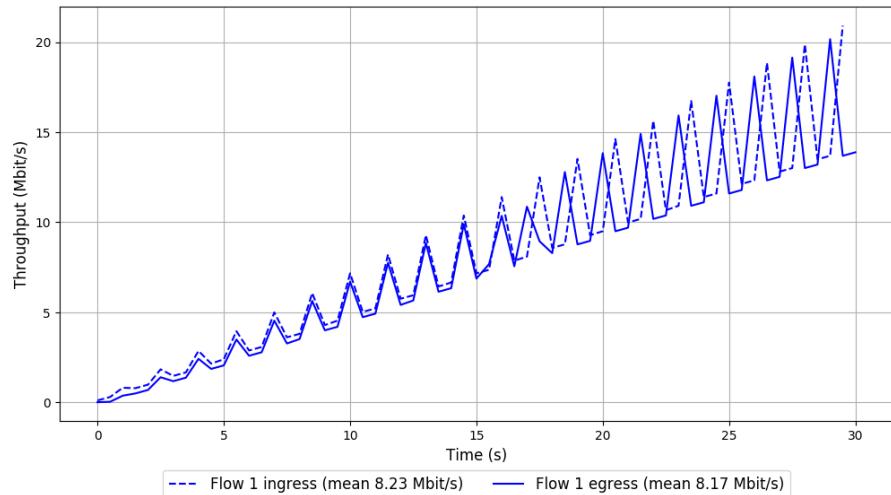


Run 4: Statistics of LEDBAT

```
Start at: 2019-07-17 17:49:01
End at: 2019-07-17 17:49:31
Local clock offset: 8.367 ms
Remote clock offset: 3.973 ms

# Below is generated by plot.py at 2019-07-17 20:16:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.17 Mbit/s
95th percentile per-packet one-way delay: 107.391 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 8.17 Mbit/s
95th percentile per-packet one-way delay: 107.391 ms
Loss rate: 1.43%
```

Run 4: Report of LEDBAT — Data Link

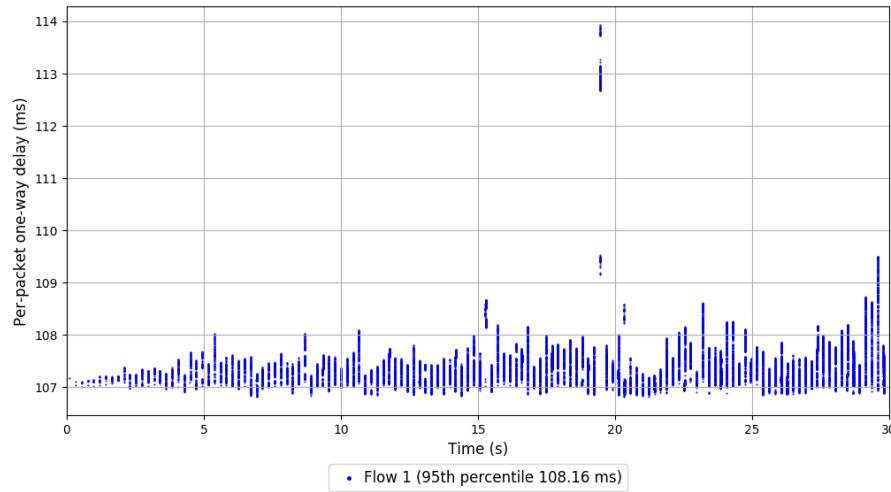
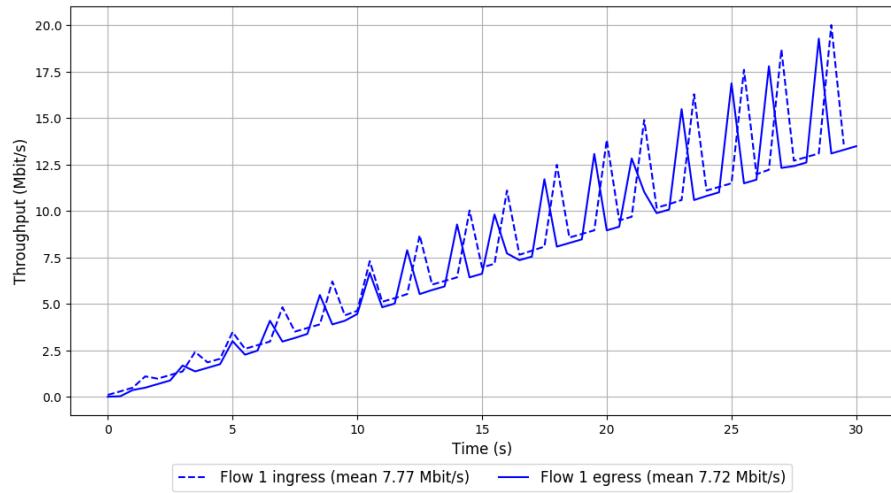


Run 5: Statistics of LEDBAT

```
Start at: 2019-07-17 18:25:18
End at: 2019-07-17 18:25:48
Local clock offset: 2.994 ms
Remote clock offset: 1.686 ms

# Below is generated by plot.py at 2019-07-17 20:16:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 108.157 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 108.157 ms
Loss rate: 1.47%
```

Run 5: Report of LEDBAT — Data Link

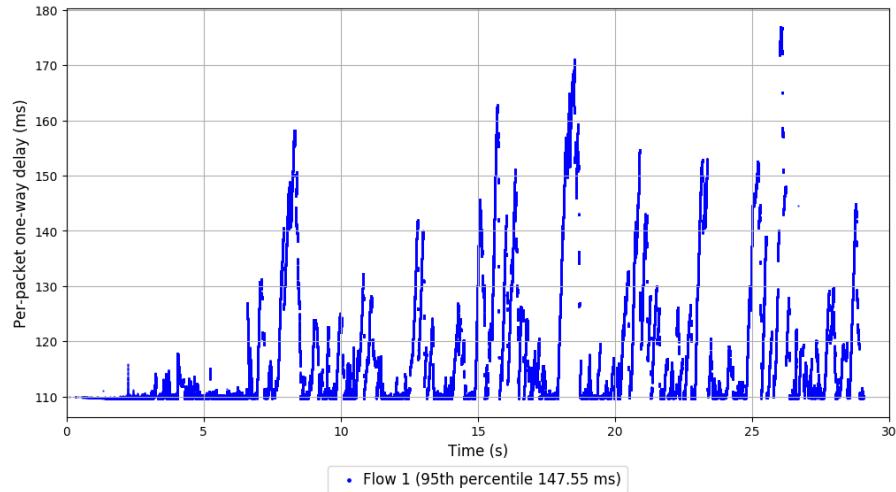
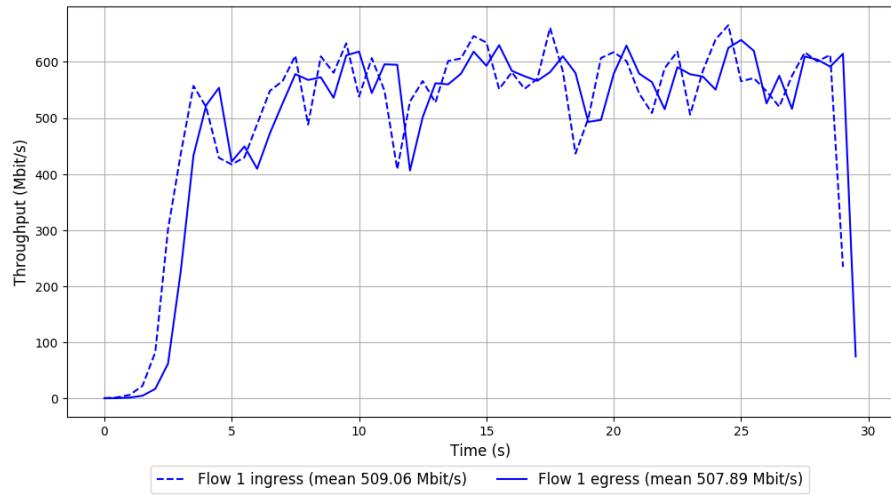


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-07-17 16:05:24
End at: 2019-07-17 16:05:54
Local clock offset: 9.05 ms
Remote clock offset: 8.757 ms

# Below is generated by plot.py at 2019-07-17 20:16:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 507.89 Mbit/s
95th percentile per-packet one-way delay: 147.553 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 507.89 Mbit/s
95th percentile per-packet one-way delay: 147.553 ms
Loss rate: 0.98%
```

Run 1: Report of Muses_DecisionTree — Data Link

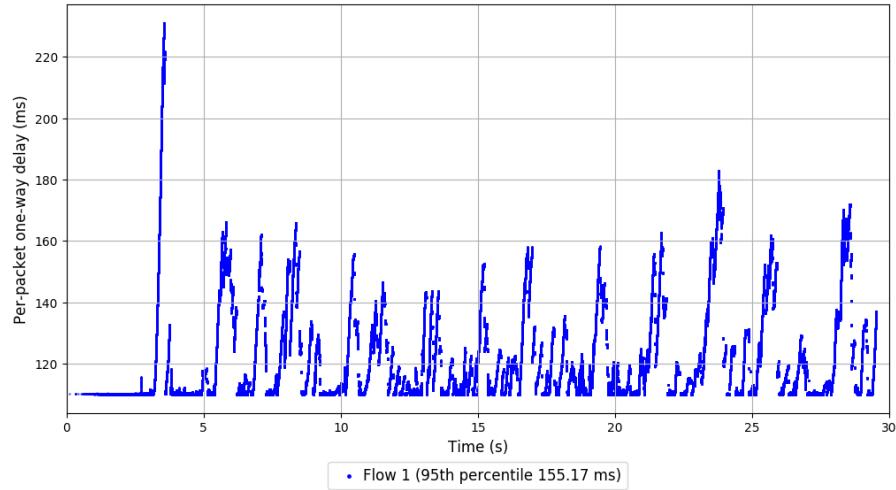
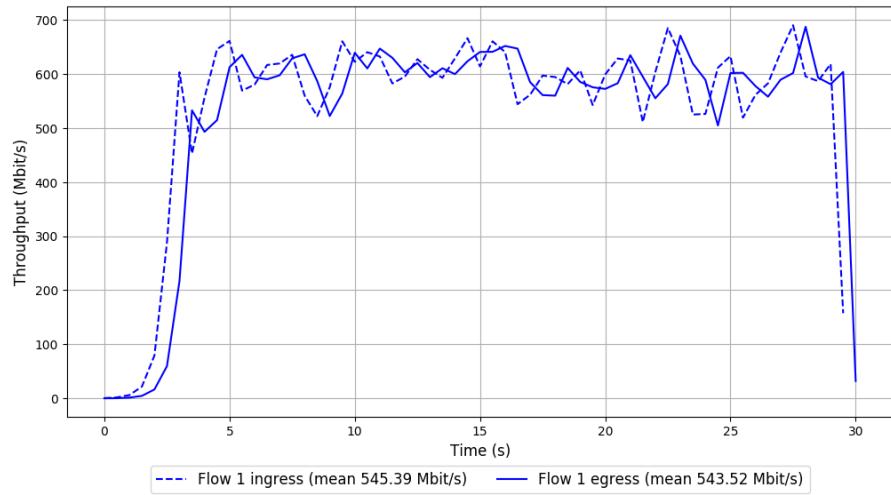


```
Run 2: Statistics of Muses\_DecisionTree
```

```
Start at: 2019-07-17 16:41:22
End at: 2019-07-17 16:41:52
Local clock offset: 21.382 ms
Remote clock offset: 20.608 ms

# Below is generated by plot.py at 2019-07-17 20:17:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 543.52 Mbit/s
95th percentile per-packet one-way delay: 155.174 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 543.52 Mbit/s
95th percentile per-packet one-way delay: 155.174 ms
Loss rate: 1.08%
```

Run 2: Report of Muses_DecisionTree — Data Link

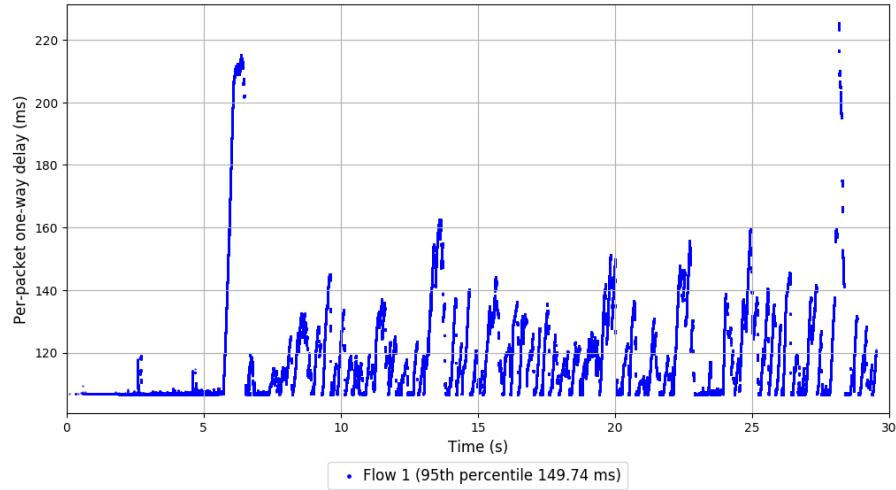
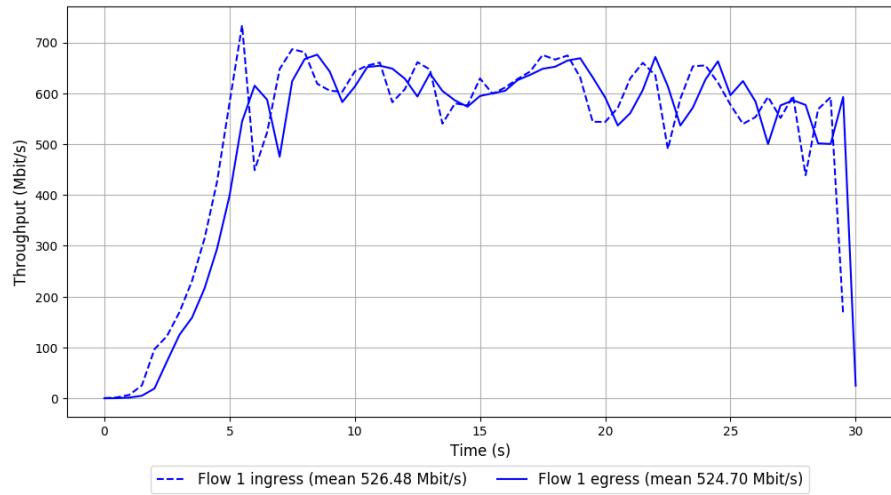


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-07-17 17:17:12
End at: 2019-07-17 17:17:42
Local clock offset: 16.061 ms
Remote clock offset: 11.237 ms

# Below is generated by plot.py at 2019-07-17 20:17:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 524.70 Mbit/s
95th percentile per-packet one-way delay: 149.739 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 524.70 Mbit/s
95th percentile per-packet one-way delay: 149.739 ms
Loss rate: 1.07%
```

Run 3: Report of Muses_DecisionTree — Data Link

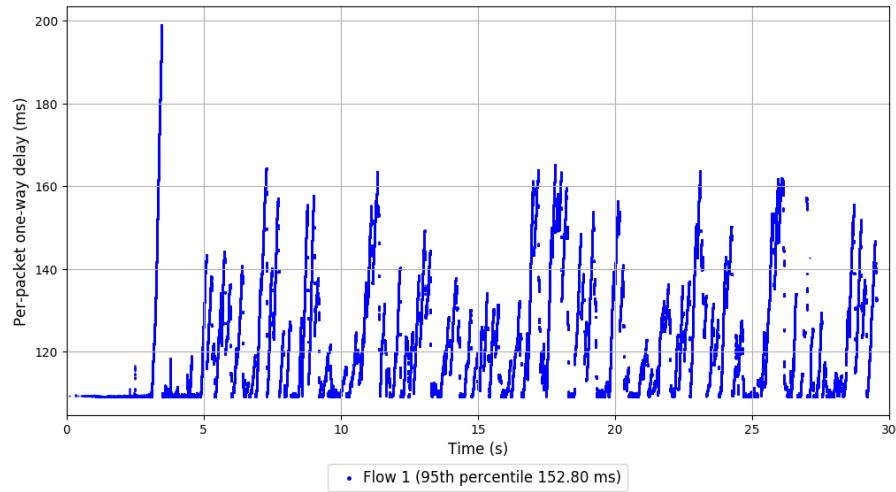
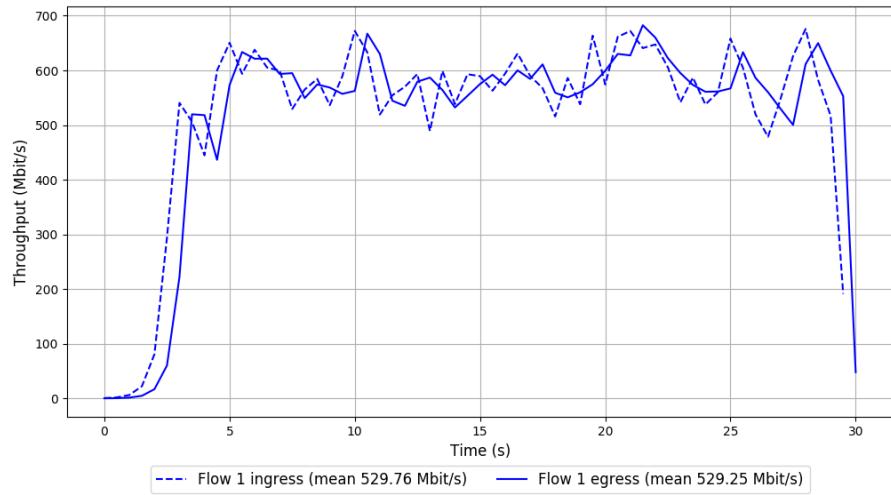


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-07-17 17:53:30
End at: 2019-07-17 17:54:00
Local clock offset: 7.776 ms
Remote clock offset: 3.535 ms

# Below is generated by plot.py at 2019-07-17 20:22:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 529.25 Mbit/s
95th percentile per-packet one-way delay: 152.797 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 529.25 Mbit/s
95th percentile per-packet one-way delay: 152.797 ms
Loss rate: 0.83%
```

Run 4: Report of Muses_DecisionTree — Data Link

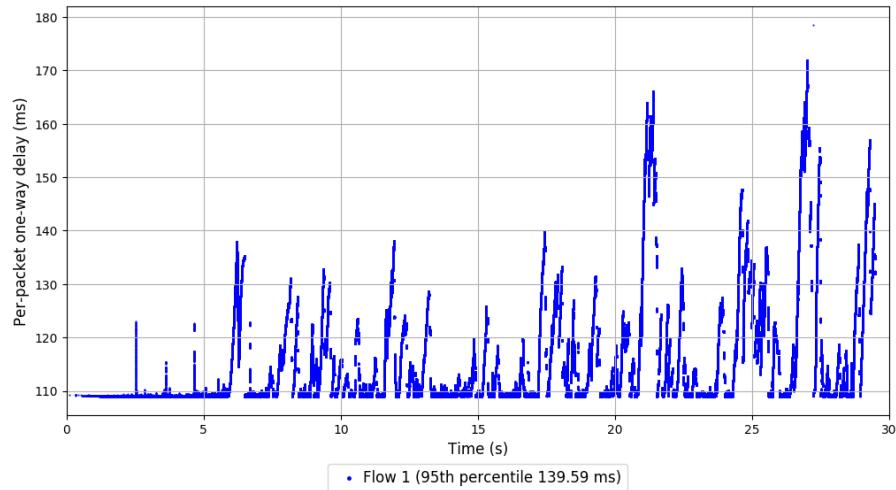
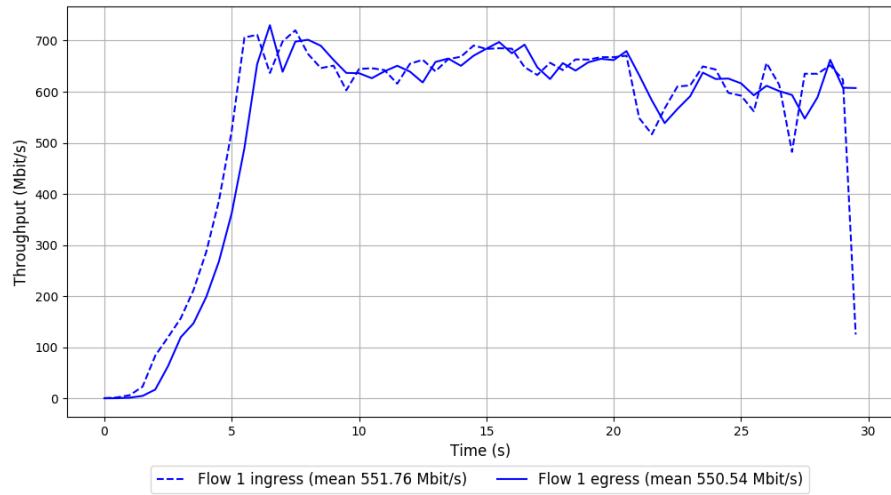


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-07-17 18:29:45
End at: 2019-07-17 18:30:15
Local clock offset: 2.513 ms
Remote clock offset: 1.603 ms

# Below is generated by plot.py at 2019-07-17 20:25:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 550.54 Mbit/s
95th percentile per-packet one-way delay: 139.586 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 550.54 Mbit/s
95th percentile per-packet one-way delay: 139.586 ms
Loss rate: 0.96%
```

Run 5: Report of Muses_DecisionTree — Data Link

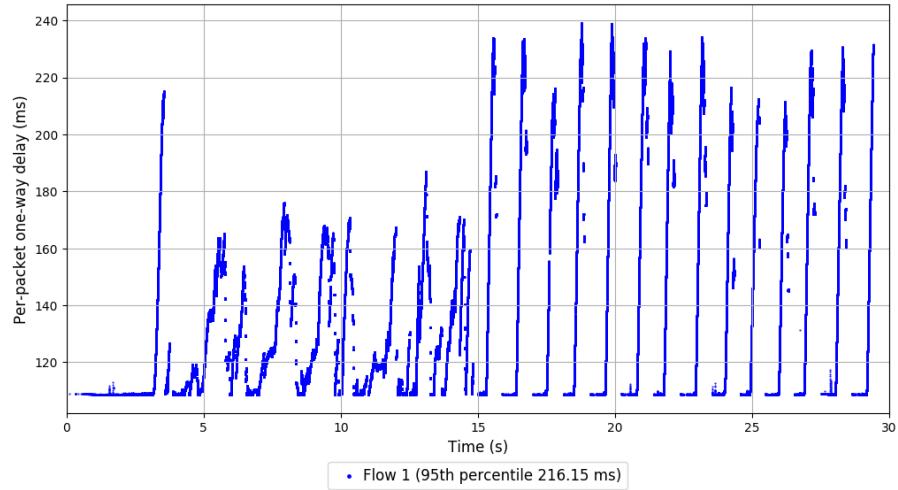
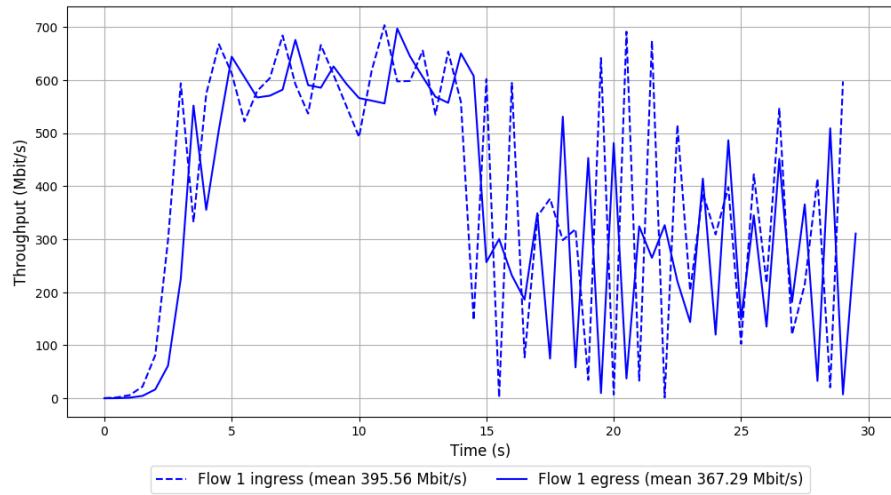


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-17 16:11:18
End at: 2019-07-17 16:11:48
Local clock offset: 17.676 ms
Remote clock offset: 17.38 ms

# Below is generated by plot.py at 2019-07-17 20:25:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 367.29 Mbit/s
95th percentile per-packet one-way delay: 216.149 ms
Loss rate: 7.41%
-- Flow 1:
Average throughput: 367.29 Mbit/s
95th percentile per-packet one-way delay: 216.149 ms
Loss rate: 7.41%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

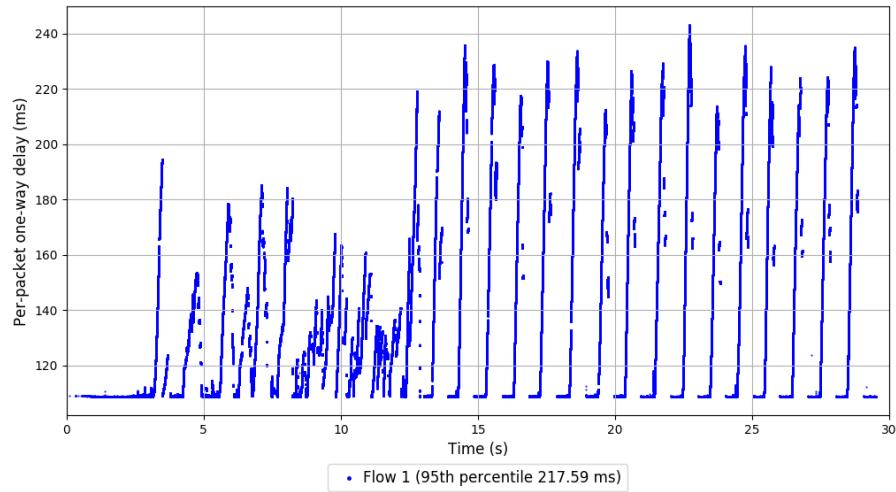
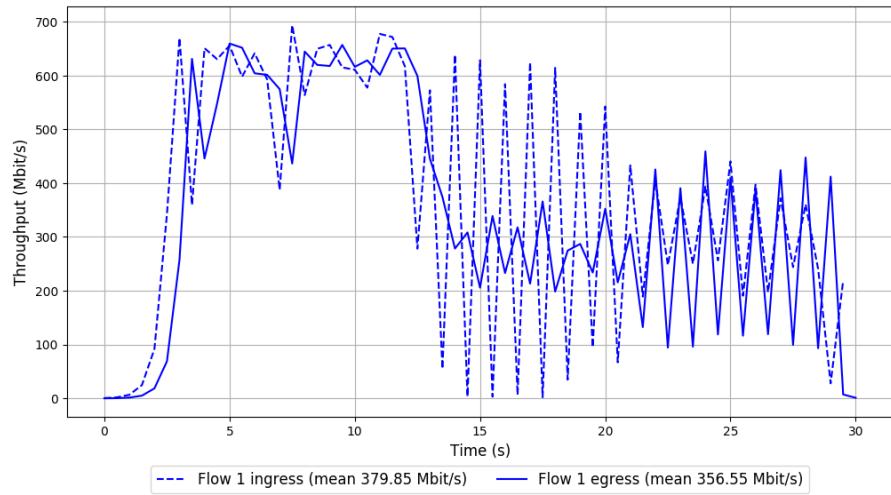


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-17 16:47:06
End at: 2019-07-17 16:47:36
Local clock offset: 24.964 ms
Remote clock offset: 24.543 ms

# Below is generated by plot.py at 2019-07-17 20:25:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.55 Mbit/s
95th percentile per-packet one-way delay: 217.585 ms
Loss rate: 6.83%
-- Flow 1:
Average throughput: 356.55 Mbit/s
95th percentile per-packet one-way delay: 217.585 ms
Loss rate: 6.83%
```

Run 2: Report of Muses_DecisionTreeH0 — Data Link

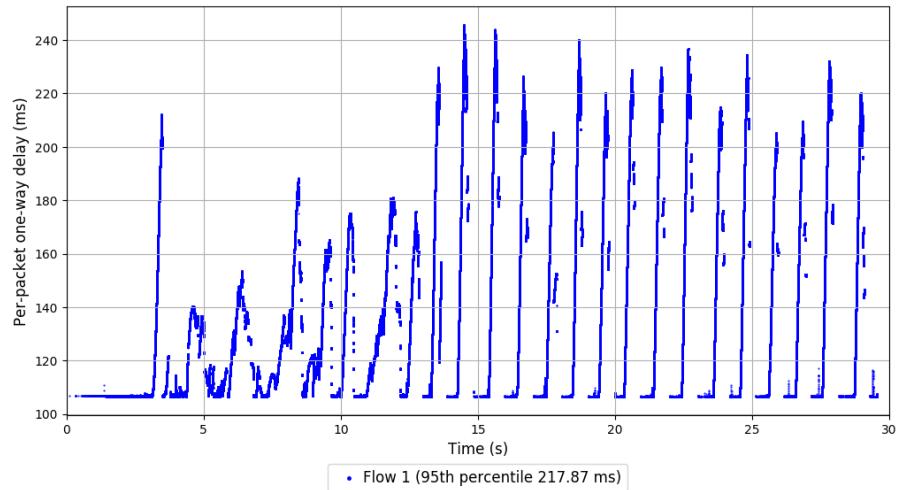
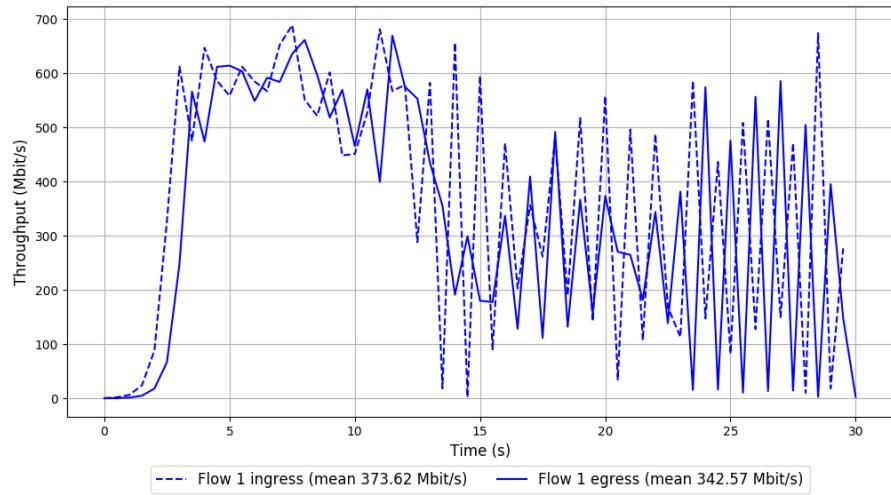


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-17 17:23:11
End at: 2019-07-17 17:23:41
Local clock offset: 15.71 ms
Remote clock offset: 9.185 ms

# Below is generated by plot.py at 2019-07-17 20:25:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.57 Mbit/s
95th percentile per-packet one-way delay: 217.871 ms
Loss rate: 8.98%
-- Flow 1:
Average throughput: 342.57 Mbit/s
95th percentile per-packet one-way delay: 217.871 ms
Loss rate: 8.98%
```

Run 3: Report of Muses_DecisionTreeH0 — Data Link

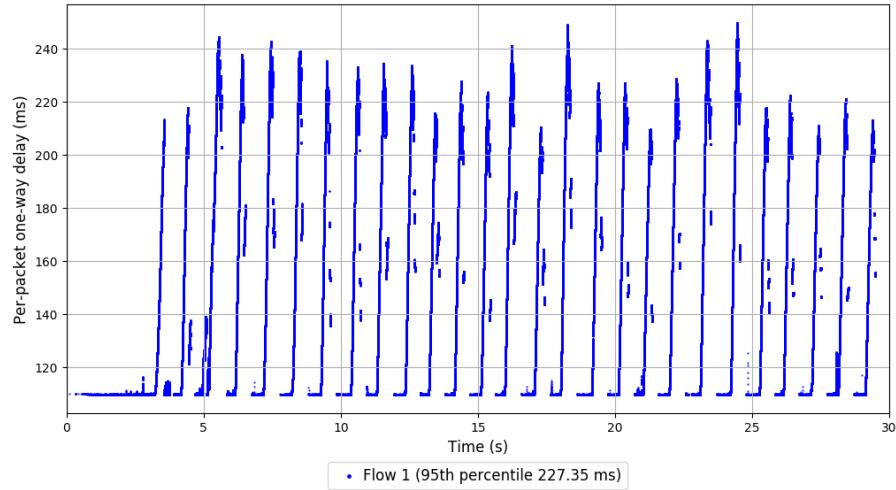
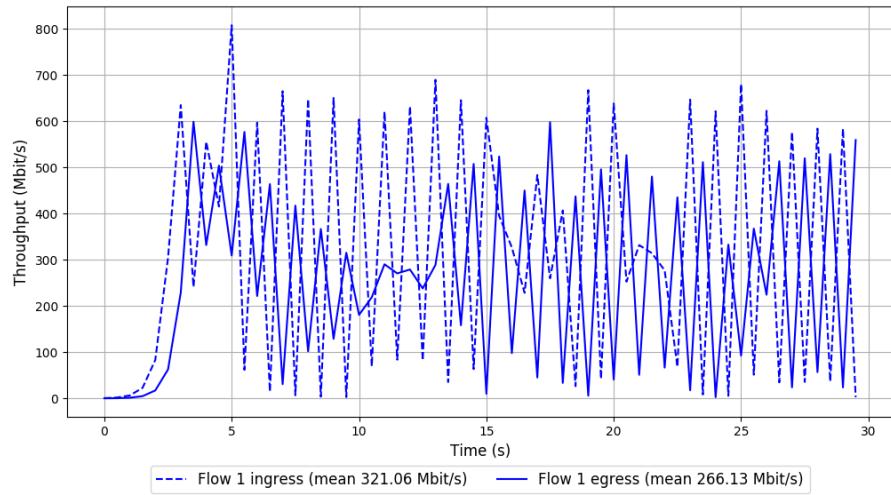


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-17 17:59:29
End at: 2019-07-17 18:00:00
Local clock offset: 7.925 ms
Remote clock offset: 3.614 ms

# Below is generated by plot.py at 2019-07-17 20:25:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 266.13 Mbit/s
95th percentile per-packet one-way delay: 227.351 ms
Loss rate: 17.92%
-- Flow 1:
Average throughput: 266.13 Mbit/s
95th percentile per-packet one-way delay: 227.351 ms
Loss rate: 17.92%
```

Run 4: Report of Muses_DecisionTreeH0 — Data Link

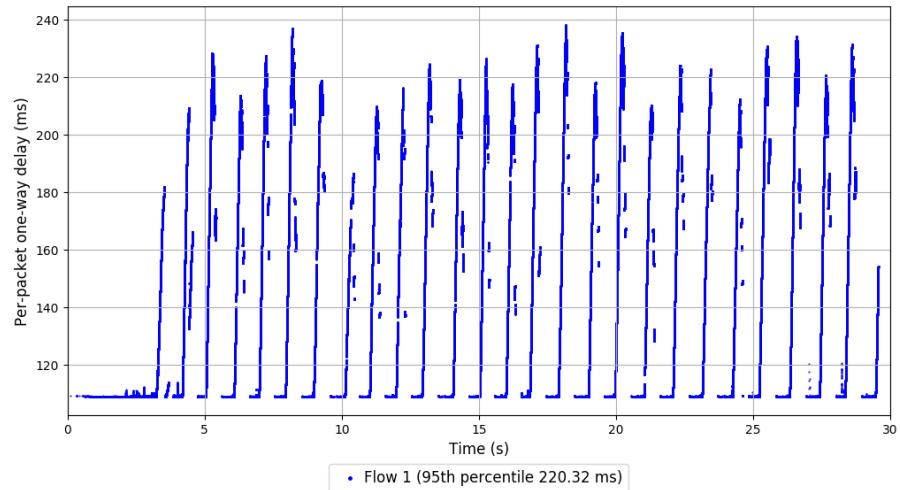
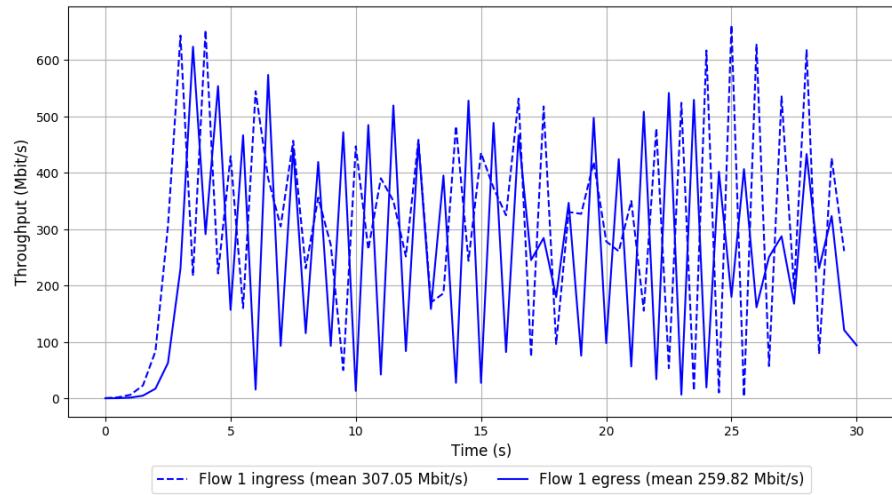


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-17 18:35:48
End at: 2019-07-17 18:36:18
Local clock offset: 2.372 ms
Remote clock offset: 1.704 ms

# Below is generated by plot.py at 2019-07-17 20:25:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 259.82 Mbit/s
95th percentile per-packet one-way delay: 220.316 ms
Loss rate: 16.01%
-- Flow 1:
Average throughput: 259.82 Mbit/s
95th percentile per-packet one-way delay: 220.316 ms
Loss rate: 16.01%
```

Run 5: Report of Muses_DecisionTreeH0 — Data Link

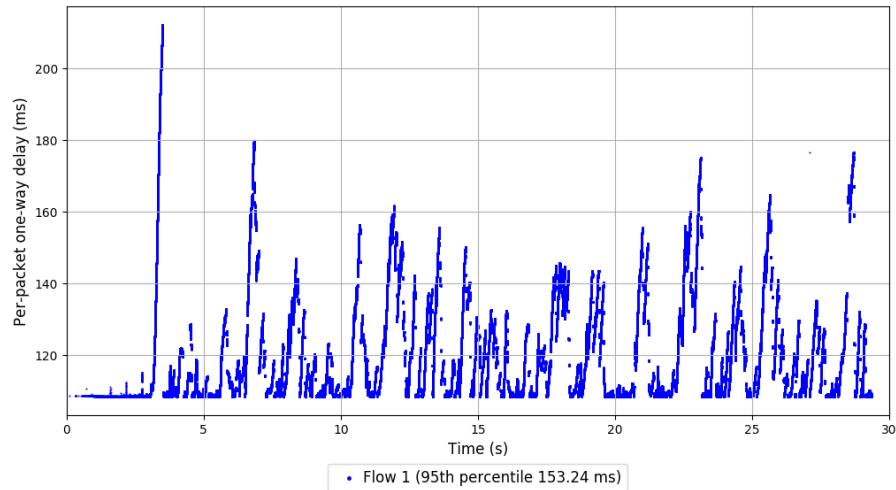
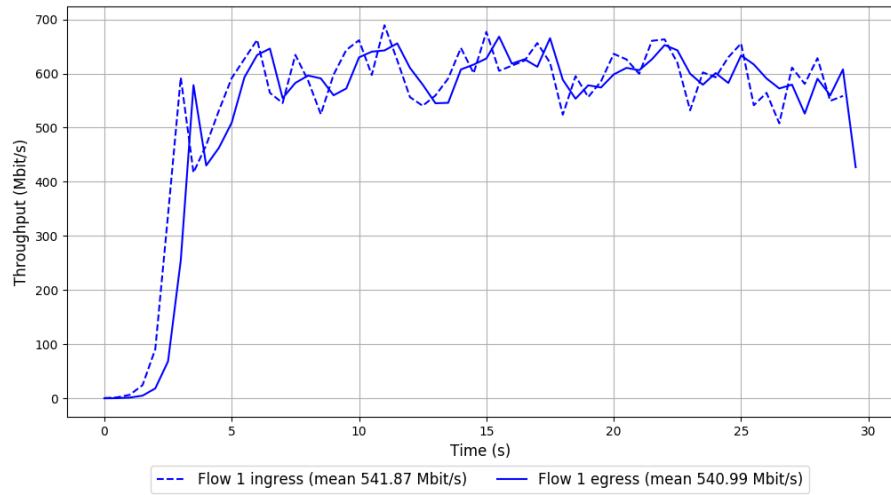


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-17 16:07:00
End at: 2019-07-17 16:07:30
Local clock offset: 10.049 ms
Remote clock offset: 10.186 ms

# Below is generated by plot.py at 2019-07-17 20:26:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.99 Mbit/s
95th percentile per-packet one-way delay: 153.239 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 540.99 Mbit/s
95th percentile per-packet one-way delay: 153.239 ms
Loss rate: 0.90%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

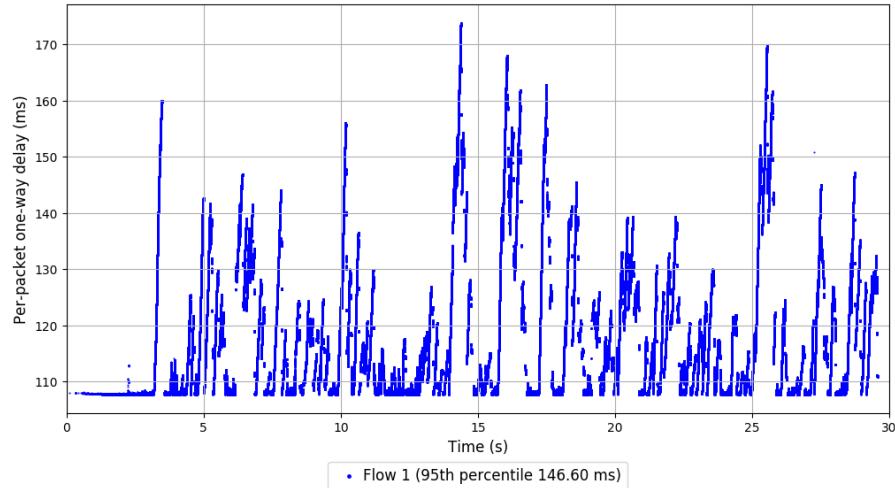
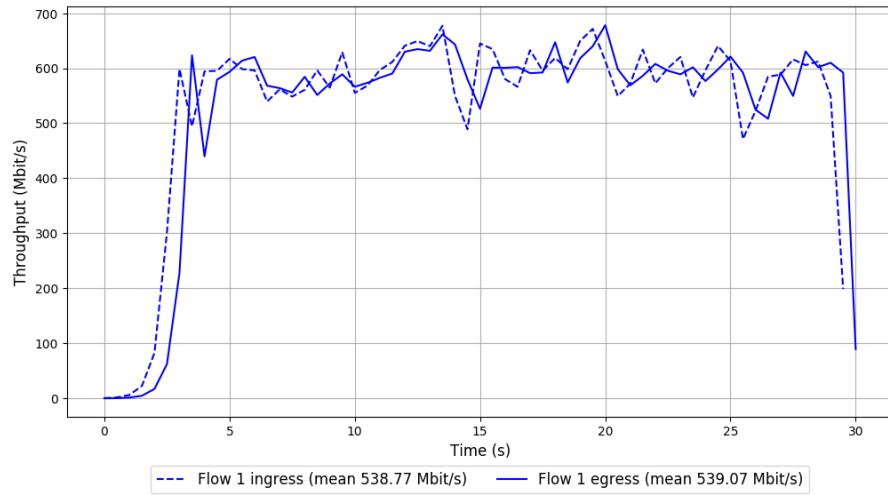


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-17 16:43:01
End at: 2019-07-17 16:43:31
Local clock offset: 21.339 ms
Remote clock offset: 21.594 ms

# Below is generated by plot.py at 2019-07-17 20:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 539.07 Mbit/s
95th percentile per-packet one-way delay: 146.600 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 539.07 Mbit/s
95th percentile per-packet one-way delay: 146.600 ms
Loss rate: 0.69%
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link

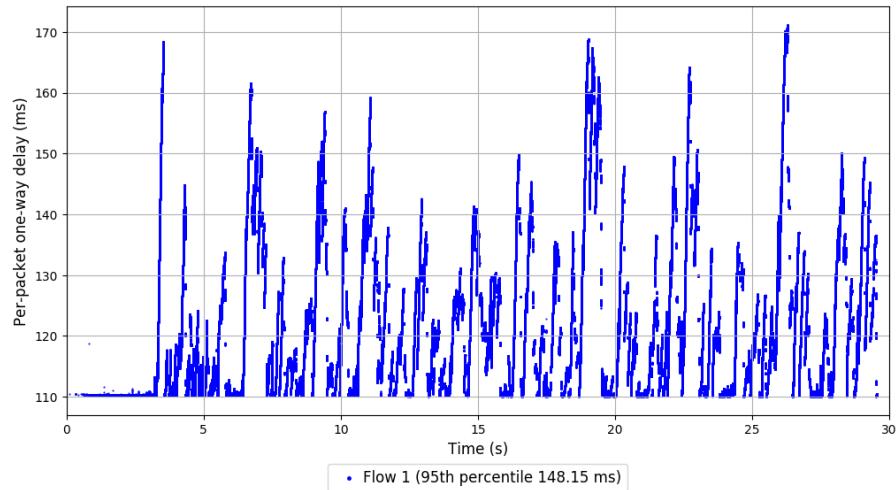
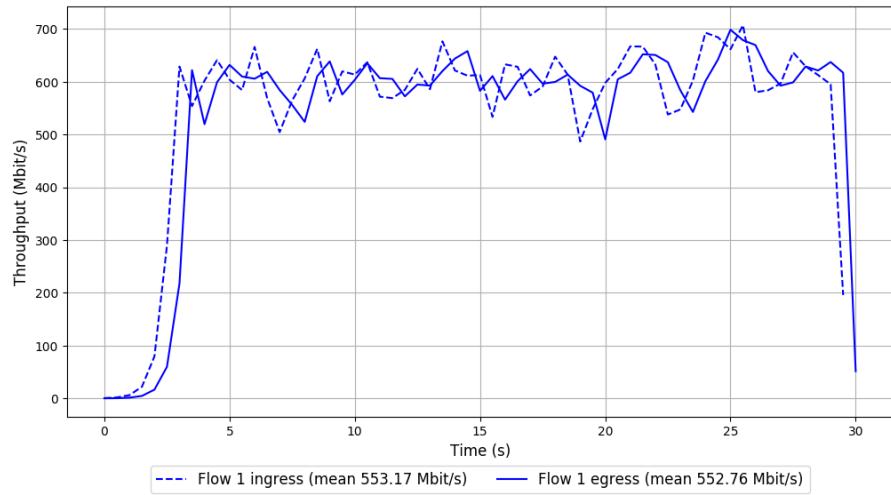


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-17 17:18:49
End at: 2019-07-17 17:19:19
Local clock offset: 15.551 ms
Remote clock offset: 9.976 ms

# Below is generated by plot.py at 2019-07-17 20:31:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 552.76 Mbit/s
95th percentile per-packet one-way delay: 148.147 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 552.76 Mbit/s
95th percentile per-packet one-way delay: 148.147 ms
Loss rate: 0.83%
```

Run 3: Report of Muses_DecisionTreeR0 — Data Link

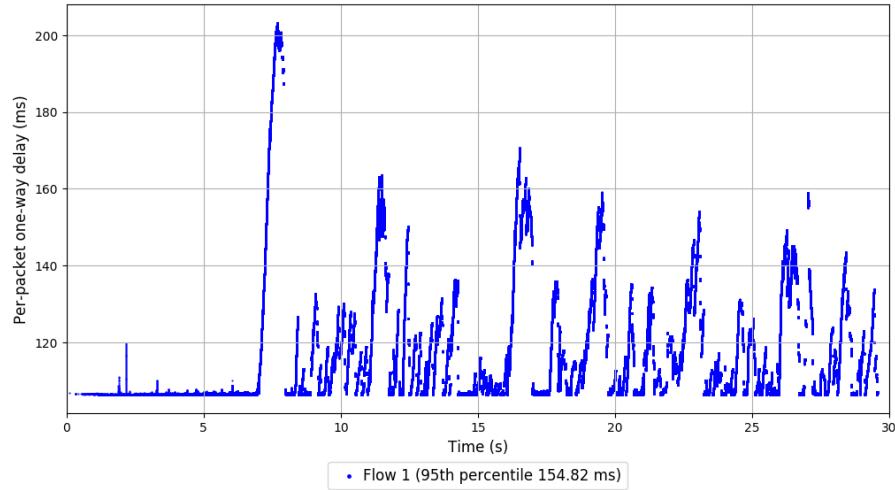
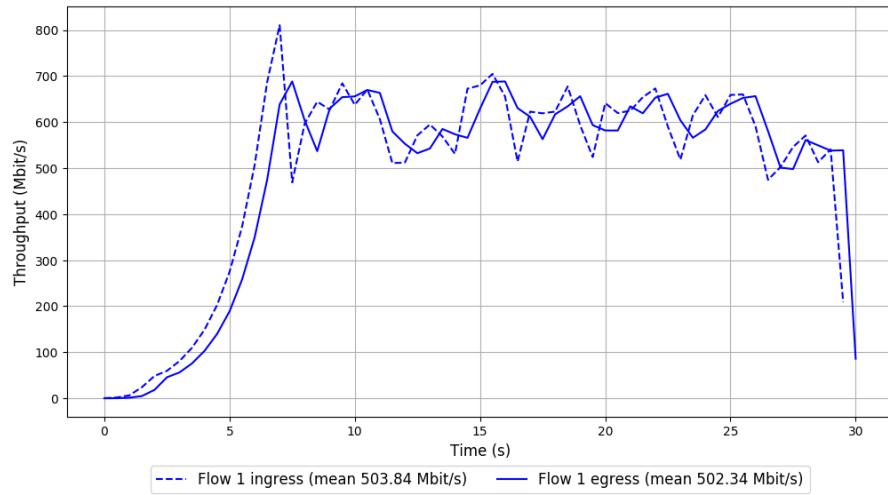


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-17 17:55:08
End at: 2019-07-17 17:55:38
Local clock offset: 7.37 ms
Remote clock offset: 3.549 ms

# Below is generated by plot.py at 2019-07-17 20:31:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 502.34 Mbit/s
95th percentile per-packet one-way delay: 154.819 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 502.34 Mbit/s
95th percentile per-packet one-way delay: 154.819 ms
Loss rate: 1.03%
```

Run 4: Report of Muses_DecisionTreeR0 — Data Link

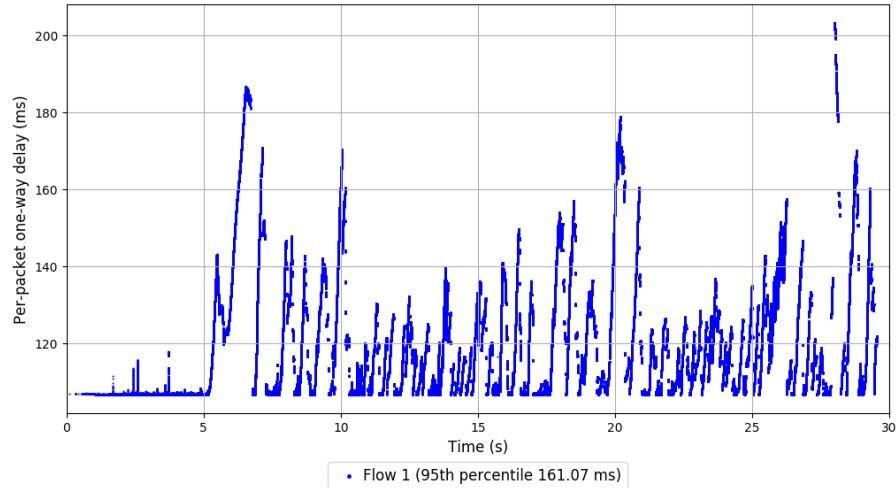
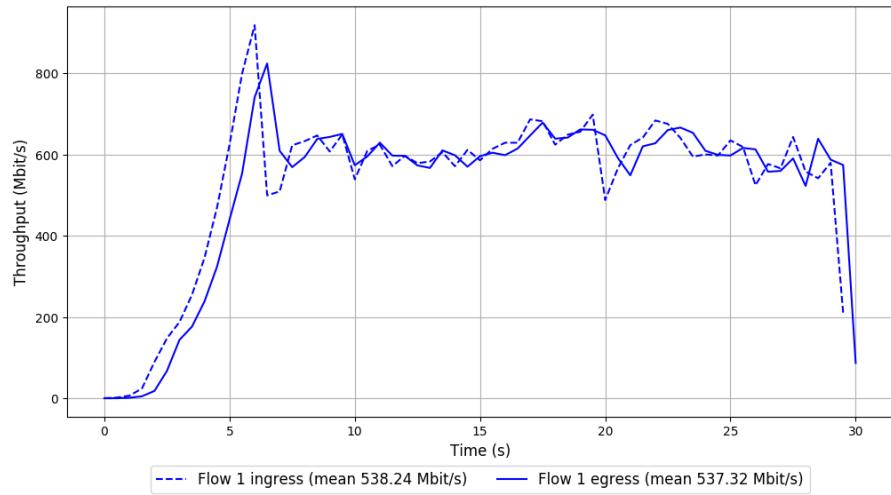


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-17 18:31:25
End at: 2019-07-17 18:31:55
Local clock offset: 2.415 ms
Remote clock offset: 1.631 ms

# Below is generated by plot.py at 2019-07-17 20:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 537.32 Mbit/s
95th percentile per-packet one-way delay: 161.066 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 537.32 Mbit/s
95th percentile per-packet one-way delay: 161.066 ms
Loss rate: 0.90%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link

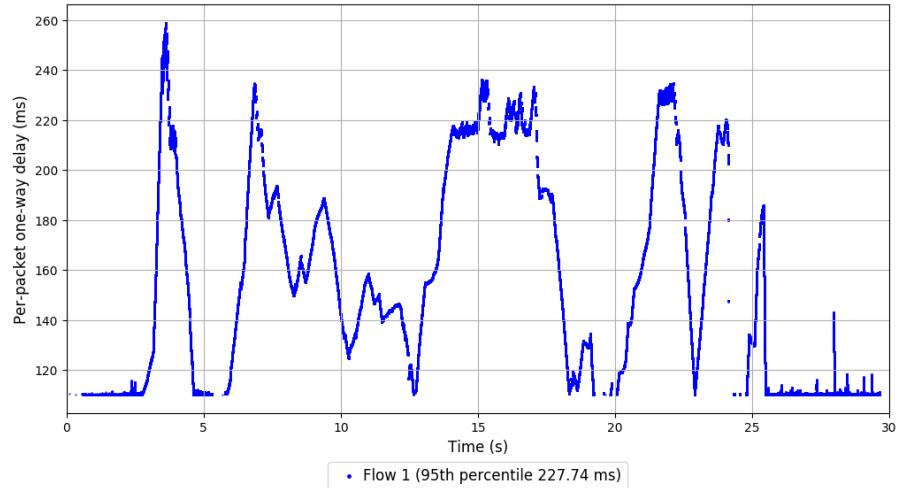
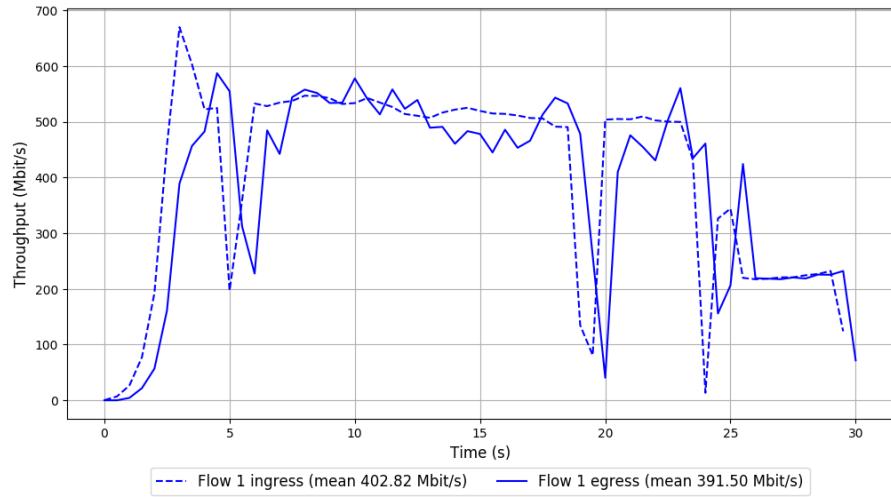


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-07-17 16:13:58
End at: 2019-07-17 16:14:28
Local clock offset: 14.399 ms
Remote clock offset: 13.626 ms

# Below is generated by plot.py at 2019-07-17 20:35:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 391.50 Mbit/s
95th percentile per-packet one-way delay: 227.739 ms
Loss rate: 3.52%
-- Flow 1:
Average throughput: 391.50 Mbit/s
95th percentile per-packet one-way delay: 227.739 ms
Loss rate: 3.52%
```

Run 1: Report of PCC-Allegro — Data Link

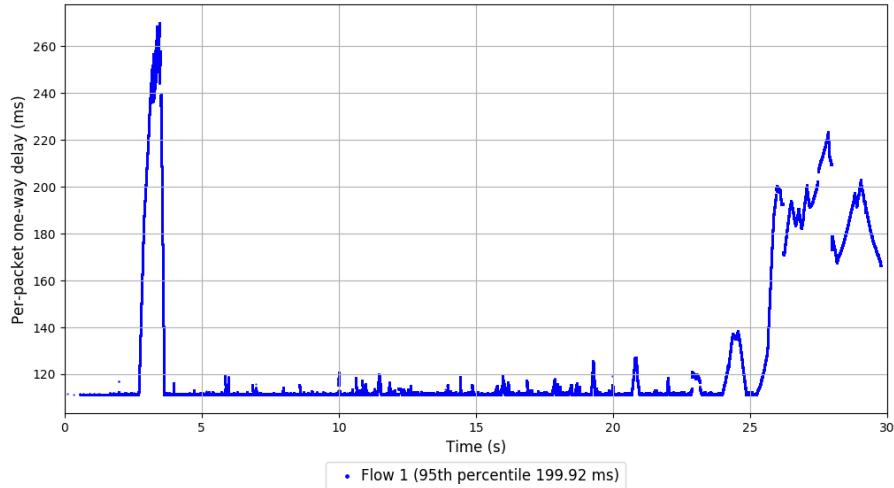
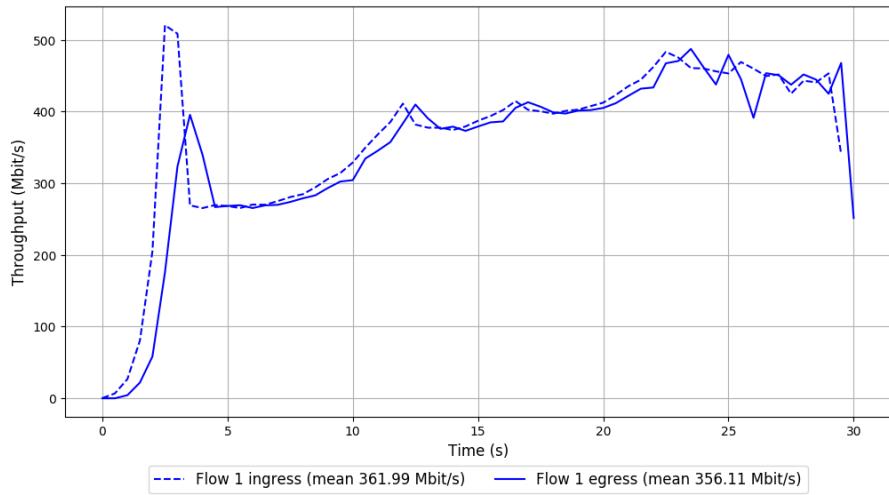


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-07-17 16:49:44
End at: 2019-07-17 16:50:15
Local clock offset: 27.32 ms
Remote clock offset: 26.58 ms

# Below is generated by plot.py at 2019-07-17 20:35:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.11 Mbit/s
95th percentile per-packet one-way delay: 199.917 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 356.11 Mbit/s
95th percentile per-packet one-way delay: 199.917 ms
Loss rate: 2.35%
```

Run 2: Report of PCC-Allegro — Data Link

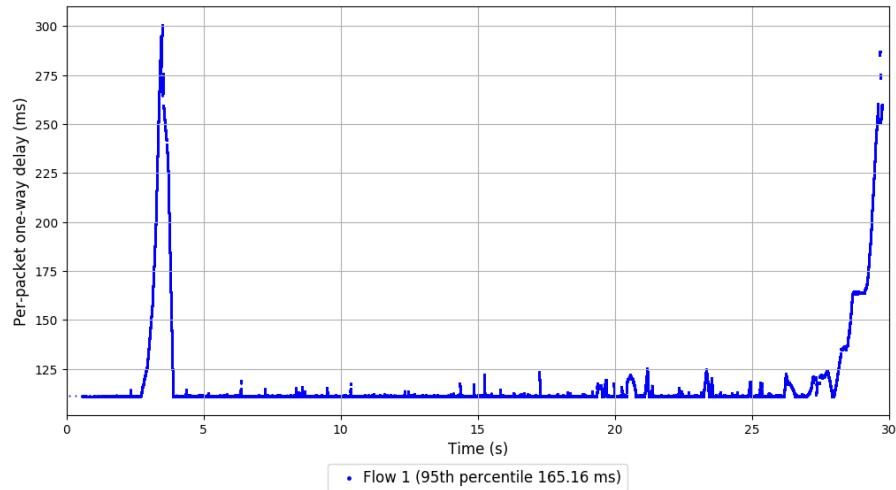
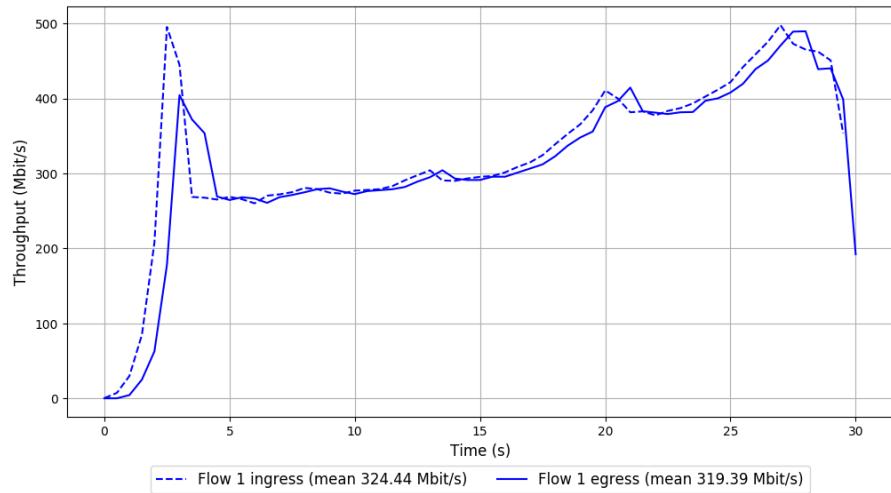


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-07-17 17:25:50
End at: 2019-07-17 17:26:20
Local clock offset: 16.253 ms
Remote clock offset: 8.965 ms

# Below is generated by plot.py at 2019-07-17 20:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.39 Mbit/s
95th percentile per-packet one-way delay: 165.162 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 319.39 Mbit/s
95th percentile per-packet one-way delay: 165.162 ms
Loss rate: 2.29%
```

Run 3: Report of PCC-Allegro — Data Link

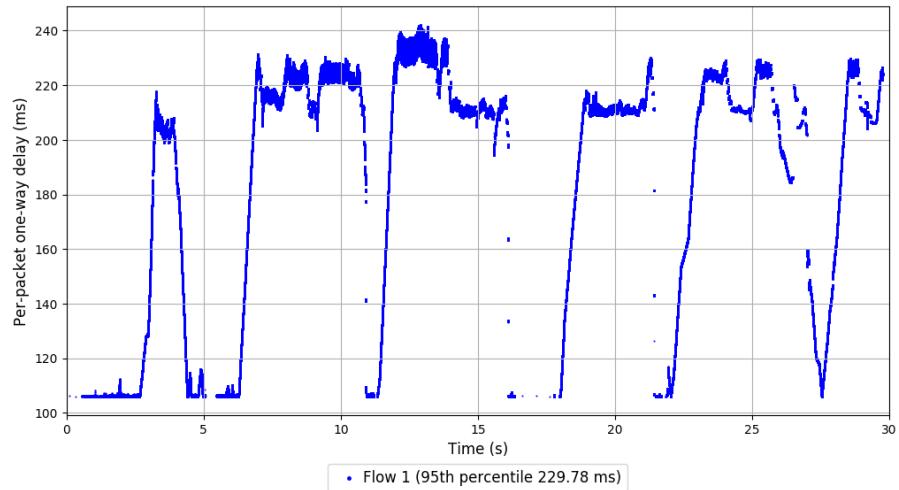
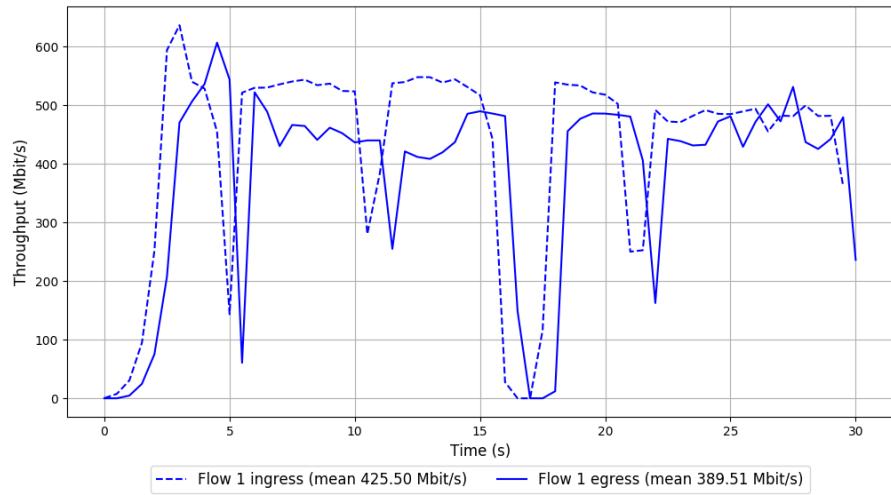


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-07-17 18:02:05
End at: 2019-07-17 18:02:35
Local clock offset: 8.206 ms
Remote clock offset: 3.806 ms

# Below is generated by plot.py at 2019-07-17 20:40:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 389.51 Mbit/s
95th percentile per-packet one-way delay: 229.779 ms
Loss rate: 9.12%
-- Flow 1:
Average throughput: 389.51 Mbit/s
95th percentile per-packet one-way delay: 229.779 ms
Loss rate: 9.12%
```

Run 4: Report of PCC-Allegro — Data Link

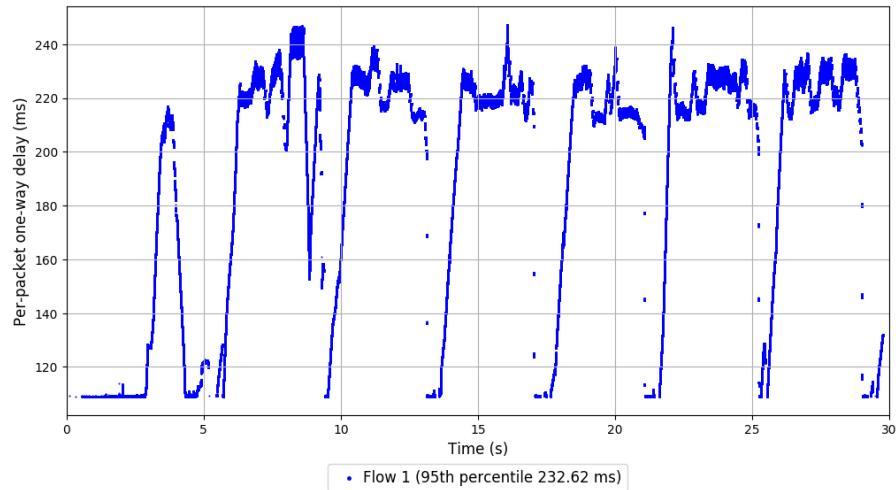
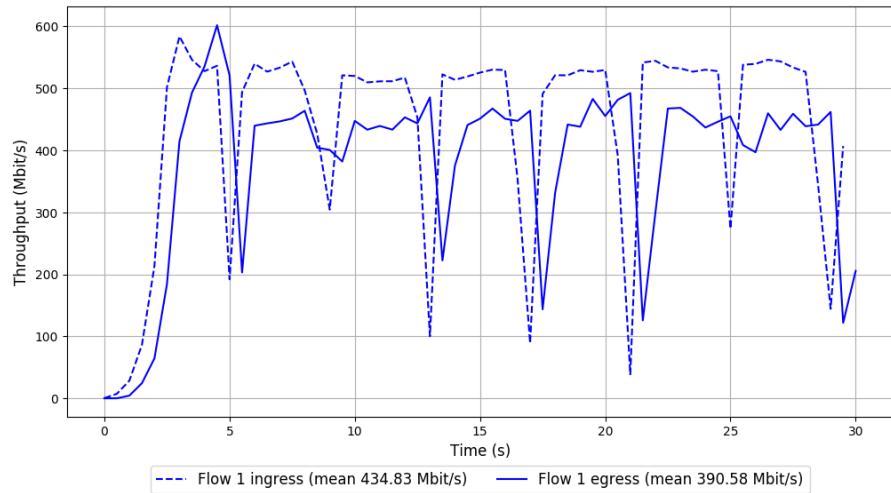


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-07-17 18:38:23
End at: 2019-07-17 18:38:53
Local clock offset: 2.417 ms
Remote clock offset: 1.824 ms

# Below is generated by plot.py at 2019-07-17 20:45:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.58 Mbit/s
95th percentile per-packet one-way delay: 232.619 ms
Loss rate: 10.84%
-- Flow 1:
Average throughput: 390.58 Mbit/s
95th percentile per-packet one-way delay: 232.619 ms
Loss rate: 10.84%
```

Run 5: Report of PCC-Allegro — Data Link

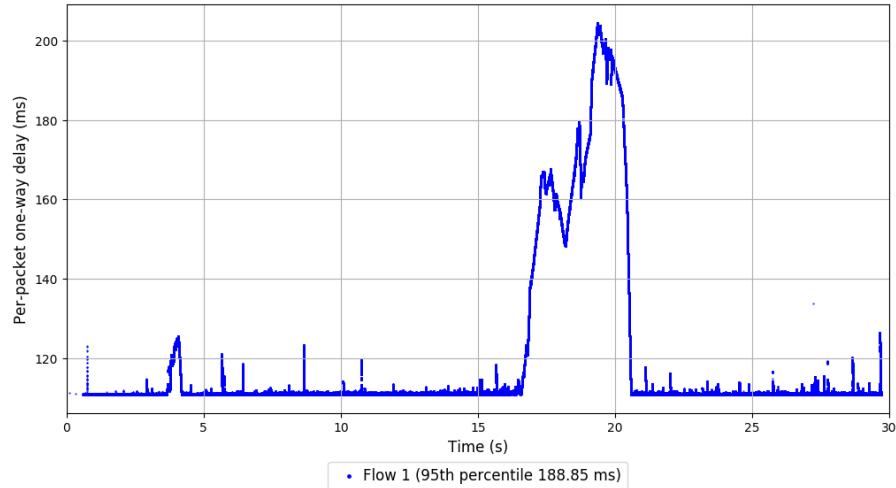
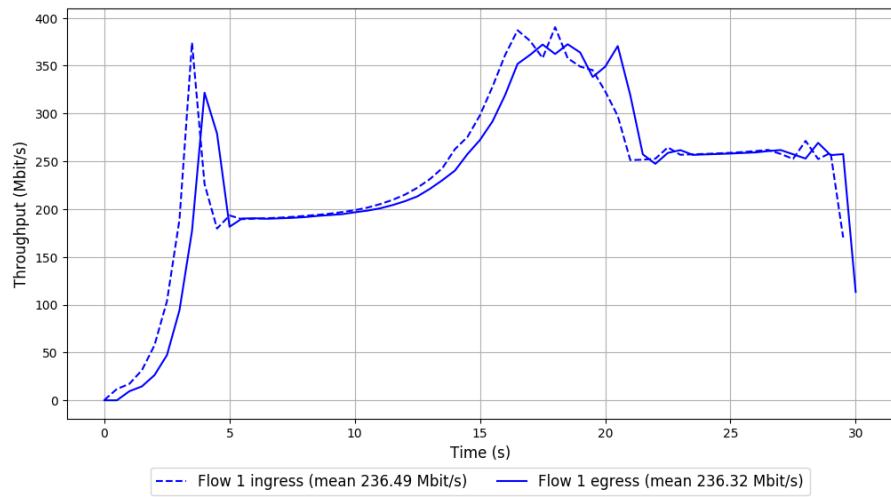


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-07-17 16:21:12
End at: 2019-07-17 16:21:42
Local clock offset: 17.186 ms
Remote clock offset: 16.793 ms

# Below is generated by plot.py at 2019-07-17 20:45:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 236.32 Mbit/s
95th percentile per-packet one-way delay: 188.854 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 236.32 Mbit/s
95th percentile per-packet one-way delay: 188.854 ms
Loss rate: 0.81%
```

Run 1: Report of PCC-Expr — Data Link

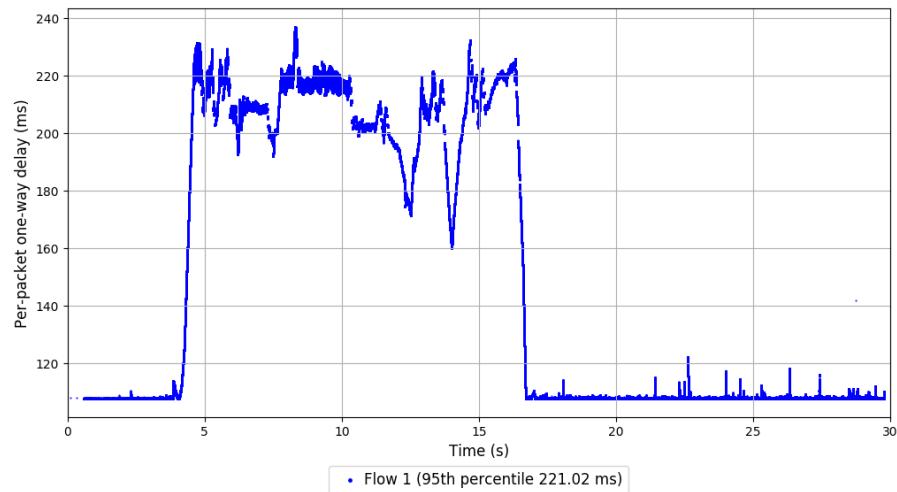
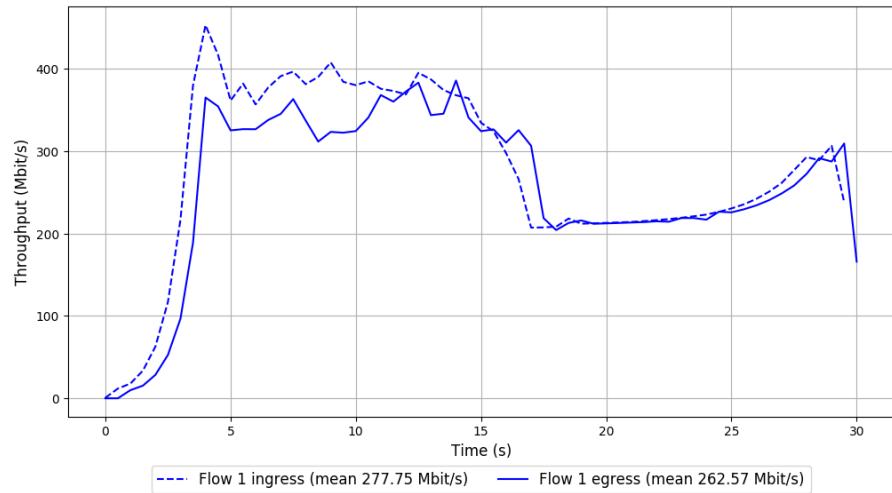


Run 2: Statistics of PCC-Expr

```
Start at: 2019-07-17 16:57:05
End at: 2019-07-17 16:57:35
Local clock offset: 34.039 ms
Remote clock offset: 34.029 ms

# Below is generated by plot.py at 2019-07-17 20:45:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 262.57 Mbit/s
95th percentile per-packet one-way delay: 221.022 ms
Loss rate: 6.16%
-- Flow 1:
Average throughput: 262.57 Mbit/s
95th percentile per-packet one-way delay: 221.022 ms
Loss rate: 6.16%
```

Run 2: Report of PCC-Expr — Data Link

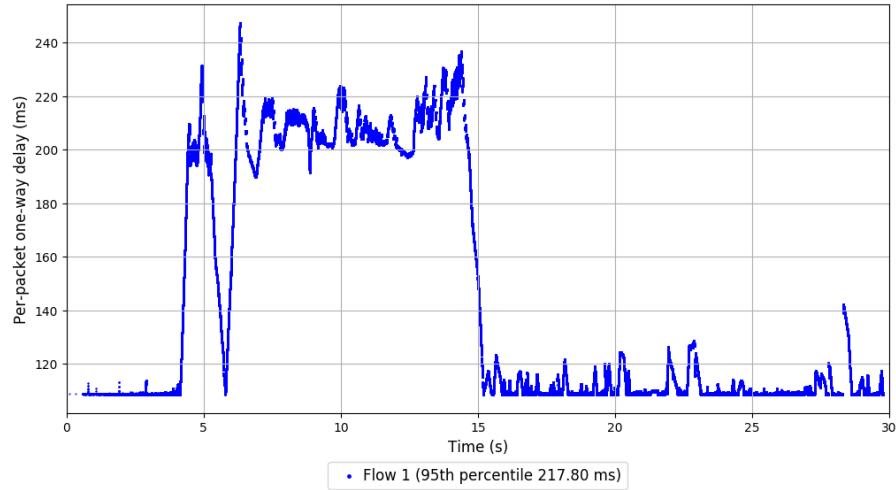
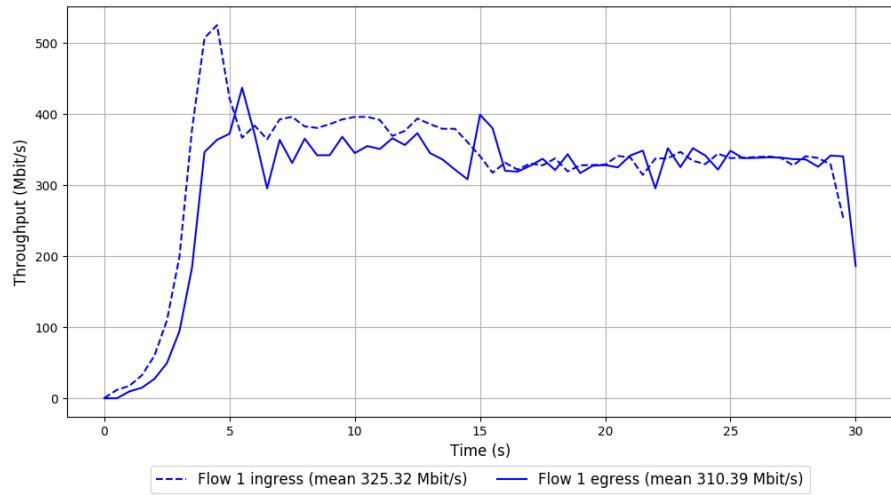


Run 3: Statistics of PCC-Expr

```
Start at: 2019-07-17 17:33:10
End at: 2019-07-17 17:33:40
Local clock offset: 18.912 ms
Remote clock offset: 9.481 ms

# Below is generated by plot.py at 2019-07-17 20:45:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.39 Mbit/s
95th percentile per-packet one-way delay: 217.799 ms
Loss rate: 5.29%
-- Flow 1:
Average throughput: 310.39 Mbit/s
95th percentile per-packet one-way delay: 217.799 ms
Loss rate: 5.29%
```

Run 3: Report of PCC-Expr — Data Link

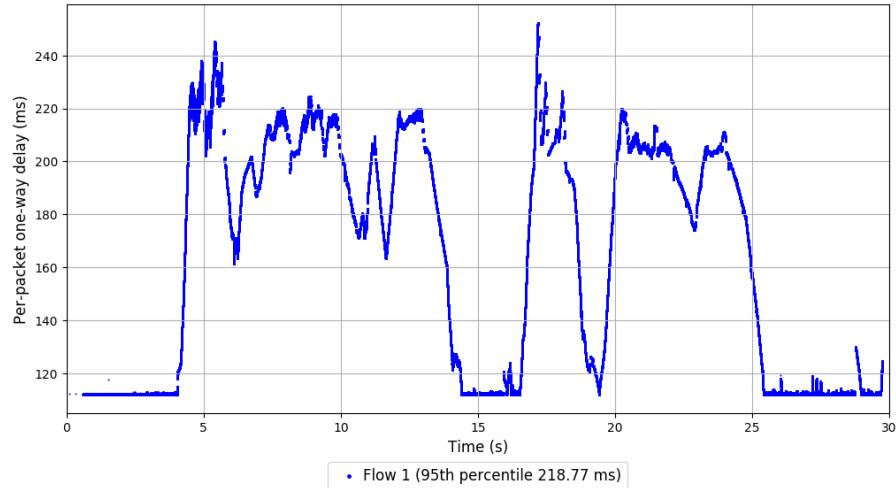
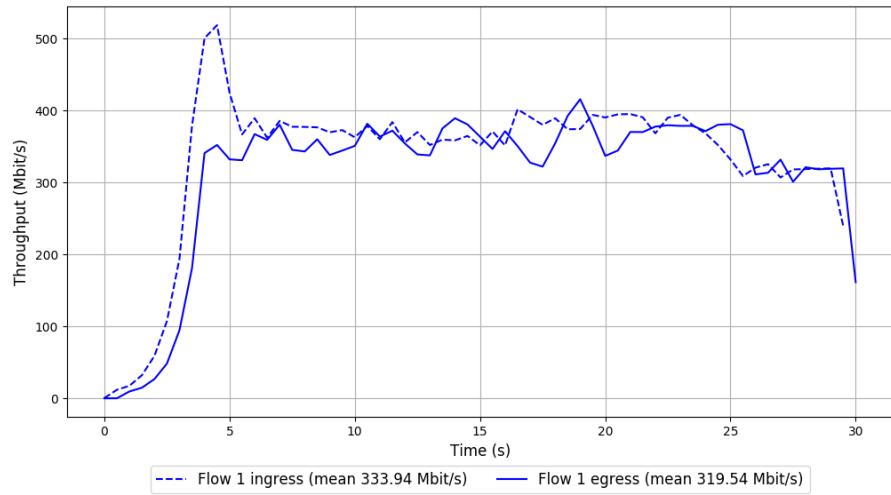


Run 4: Statistics of PCC-Expr

```
Start at: 2019-07-17 18:09:21
End at: 2019-07-17 18:09:51
Local clock offset: 9.706 ms
Remote clock offset: 4.4 ms

# Below is generated by plot.py at 2019-07-17 20:46:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.54 Mbit/s
95th percentile per-packet one-way delay: 218.767 ms
Loss rate: 5.02%
-- Flow 1:
Average throughput: 319.54 Mbit/s
95th percentile per-packet one-way delay: 218.767 ms
Loss rate: 5.02%
```

Run 4: Report of PCC-Expr — Data Link

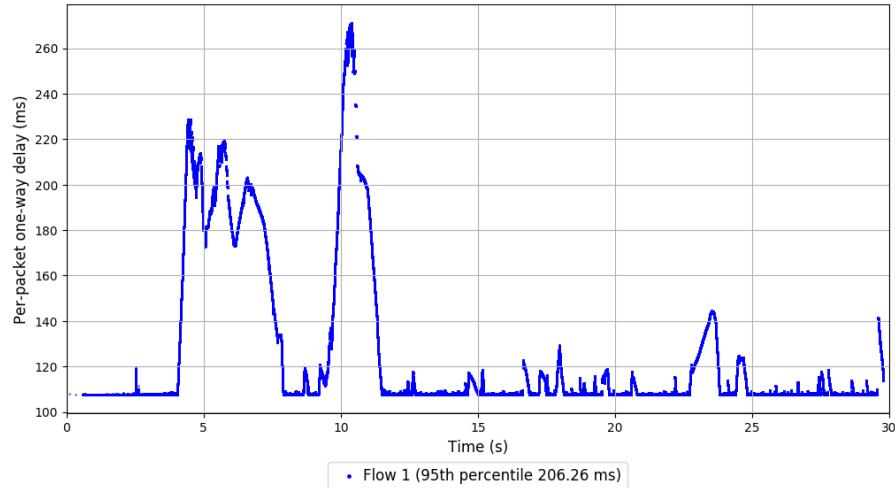
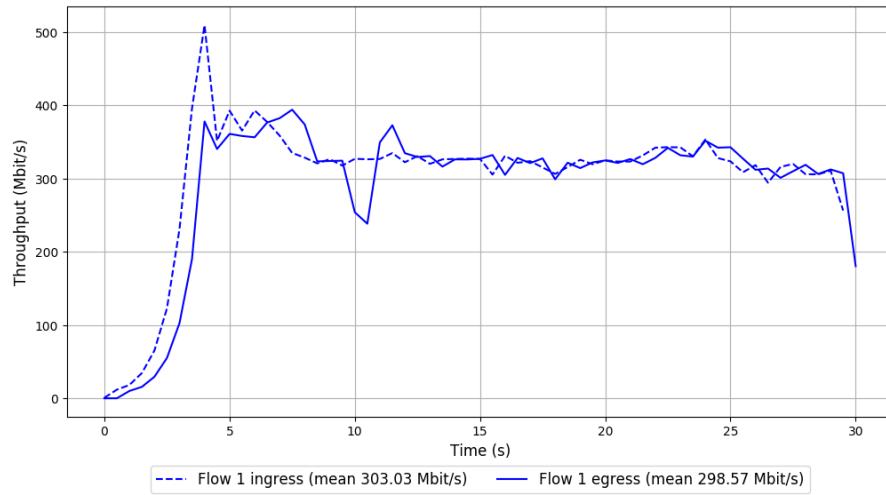


Run 5: Statistics of PCC-Expr

```
Start at: 2019-07-17 18:45:43
End at: 2019-07-17 18:46:13
Local clock offset: 3.187 ms
Remote clock offset: 1.962 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 298.57 Mbit/s
95th percentile per-packet one-way delay: 206.262 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 298.57 Mbit/s
95th percentile per-packet one-way delay: 206.262 ms
Loss rate: 2.19%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

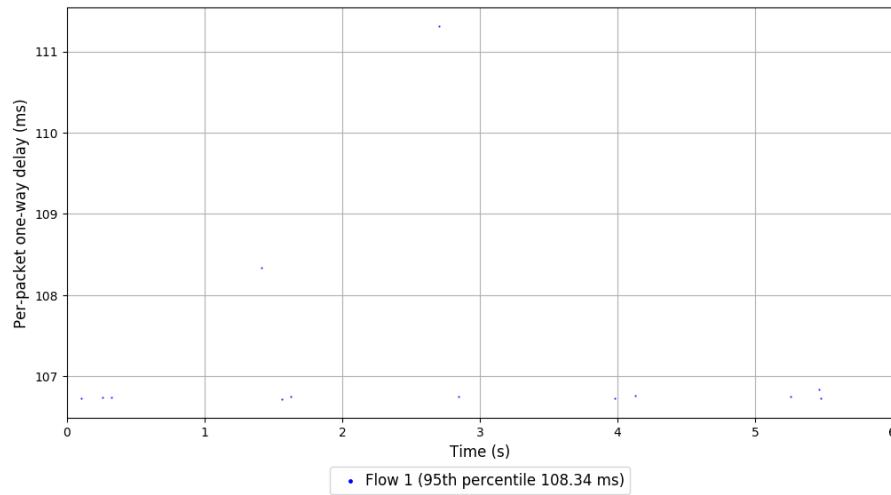
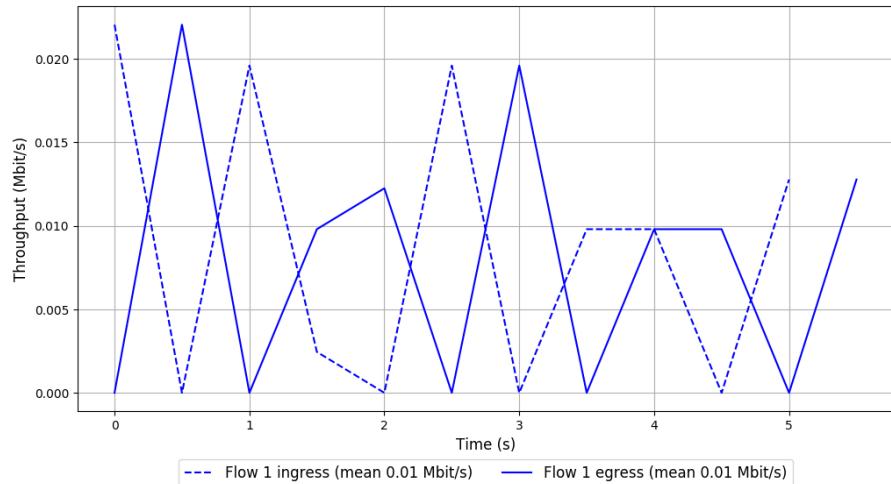
Start at: 2019-07-17 16:08:39

End at: 2019-07-17 16:09:09

Local clock offset: 12.908 ms

Remote clock offset: 12.483 ms

Run 1: Report of QUIC Cubic — Data Link

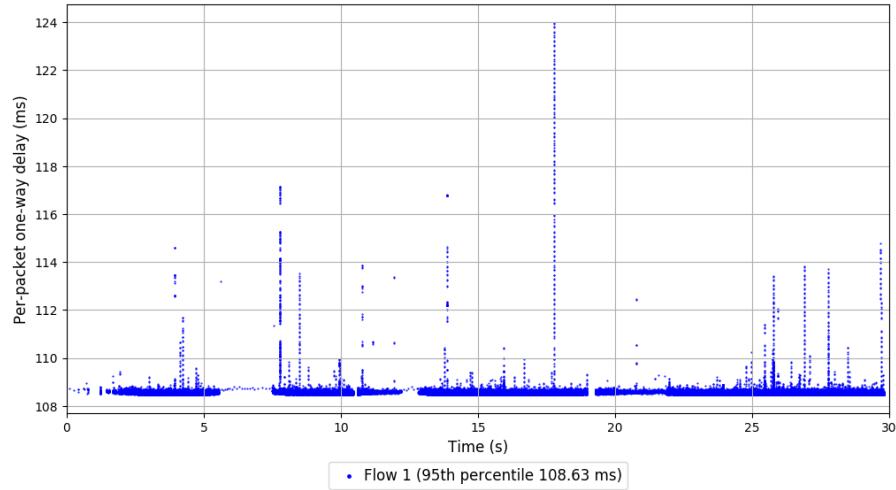
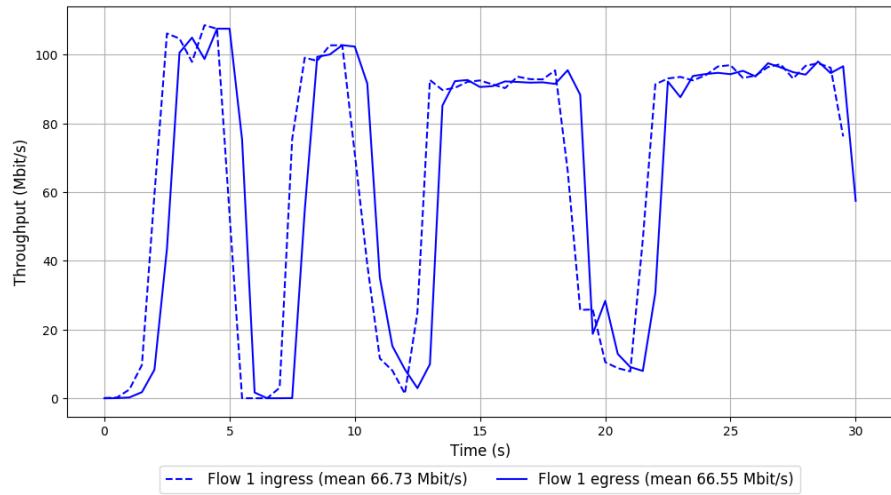


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-07-17 16:44:40
End at: 2019-07-17 16:45:10
Local clock offset: 23.205 ms
Remote clock offset: 22.696 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.55 Mbit/s
95th percentile per-packet one-way delay: 108.631 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 66.55 Mbit/s
95th percentile per-packet one-way delay: 108.631 ms
Loss rate: 1.00%
```

Run 2: Report of QUIC Cubic — Data Link

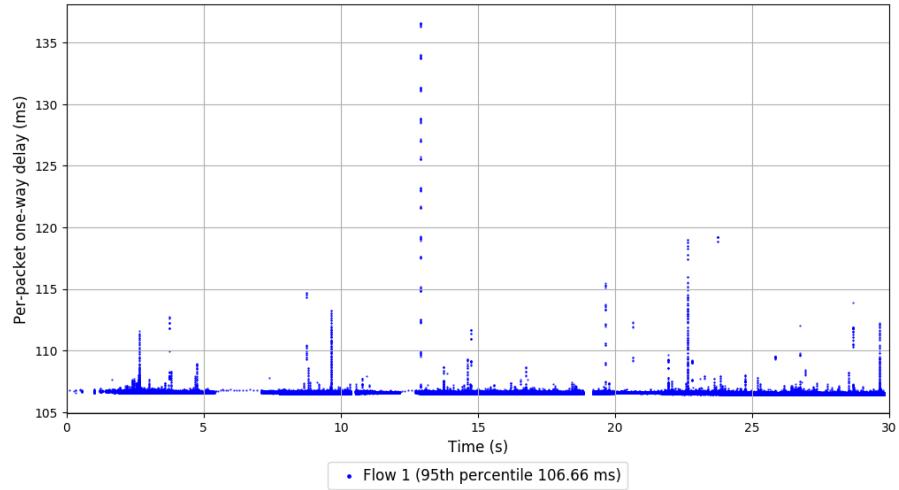
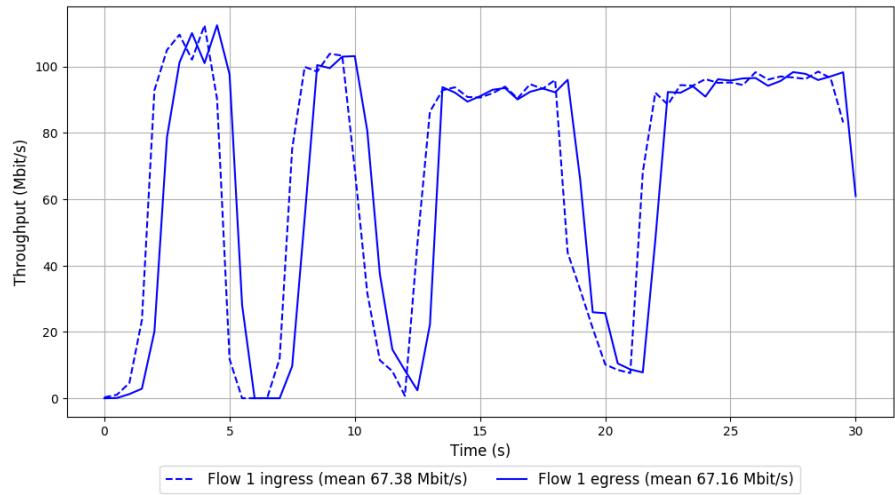


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-07-17 17:20:28
End at: 2019-07-17 17:20:58
Local clock offset: 15.524 ms
Remote clock offset: 9.709 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.16 Mbit/s
95th percentile per-packet one-way delay: 106.663 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 67.16 Mbit/s
95th percentile per-packet one-way delay: 106.663 ms
Loss rate: 1.05%
```

Run 3: Report of QUIC Cubic — Data Link

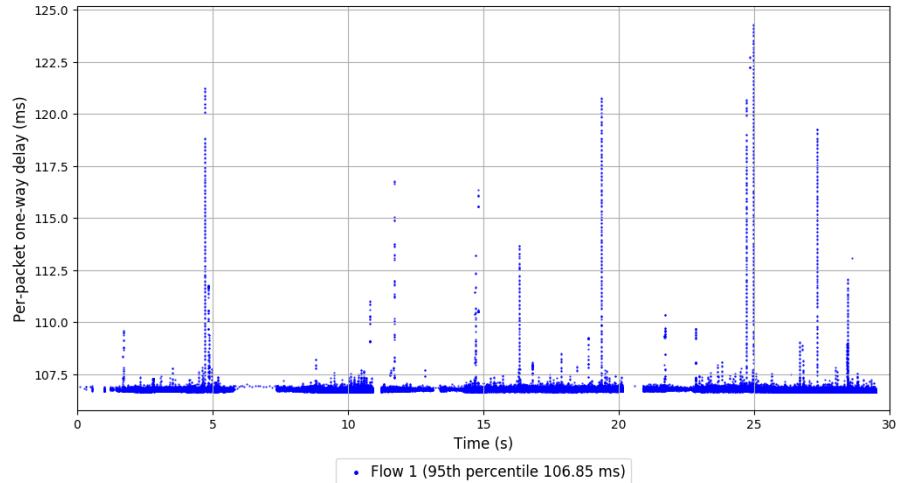
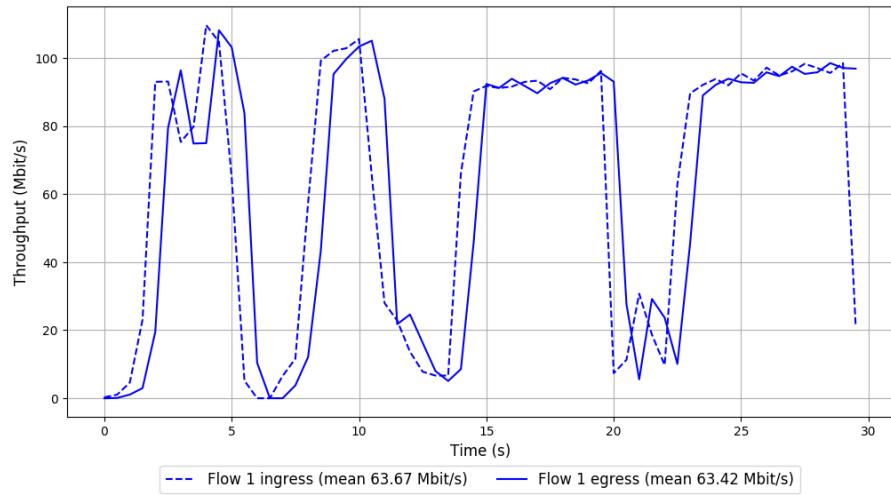


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-07-17 17:56:45
End at: 2019-07-17 17:57:15
Local clock offset: 7.745 ms
Remote clock offset: 3.494 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.42 Mbit/s
95th percentile per-packet one-way delay: 106.854 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 63.42 Mbit/s
95th percentile per-packet one-way delay: 106.854 ms
Loss rate: 1.12%
```

Run 4: Report of QUIC Cubic — Data Link

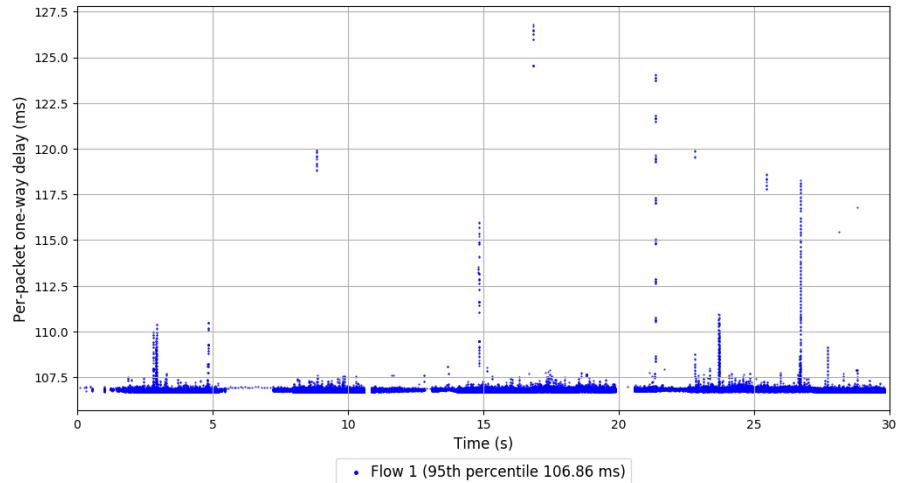
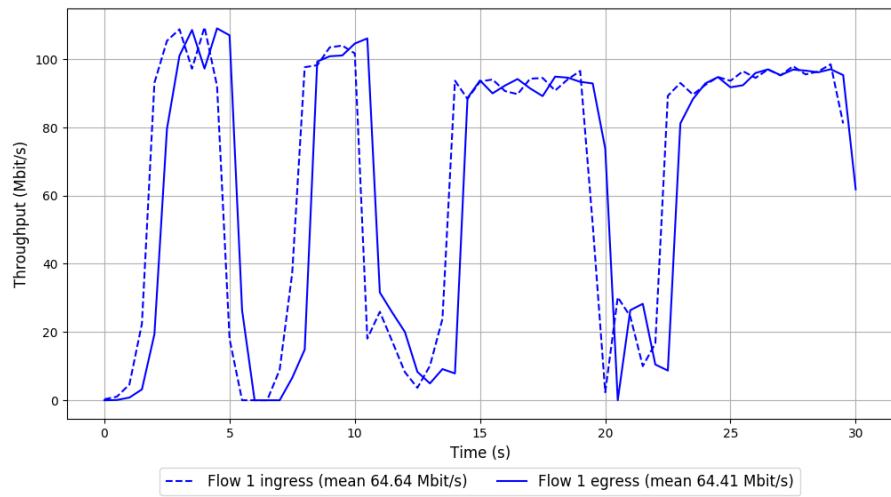


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-07-17 18:33:04
End at: 2019-07-17 18:33:34
Local clock offset: 2.414 ms
Remote clock offset: 1.645 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.41 Mbit/s
95th percentile per-packet one-way delay: 106.865 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 64.41 Mbit/s
95th percentile per-packet one-way delay: 106.865 ms
Loss rate: 1.08%
```

Run 5: Report of QUIC Cubic — Data Link

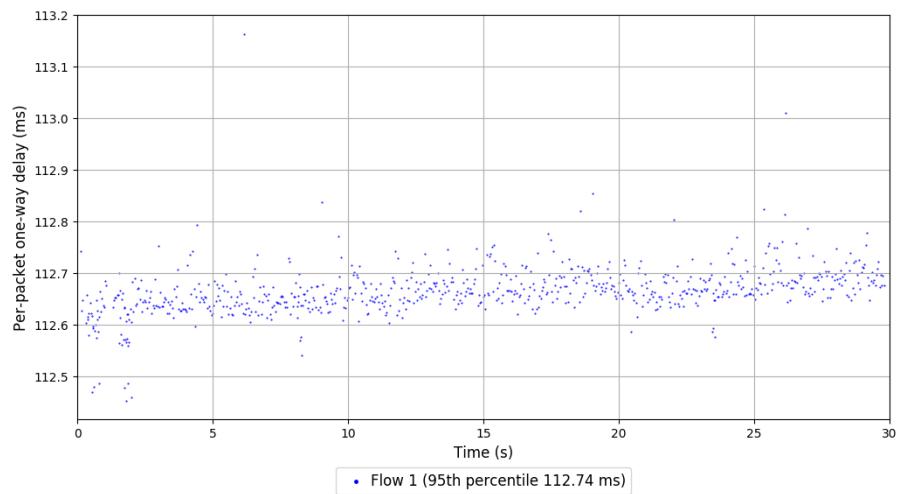
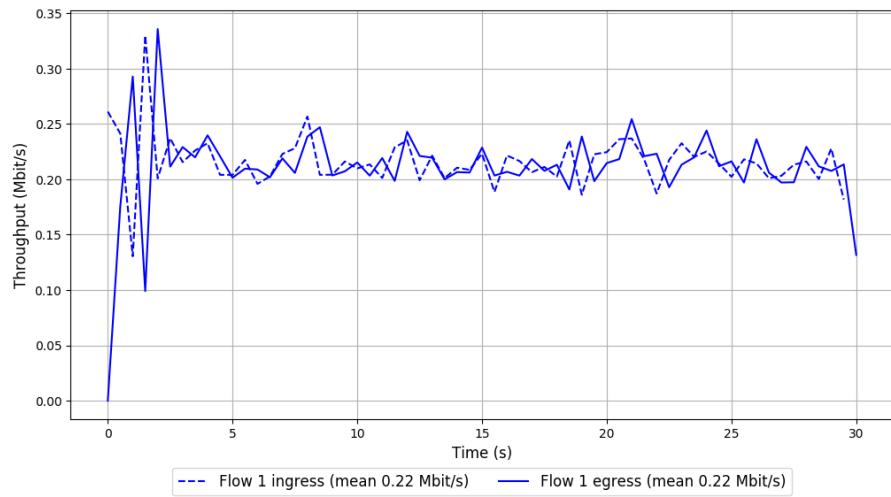


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-07-17 16:12:48
End at: 2019-07-17 16:13:18
Local clock offset: 16.429 ms
Remote clock offset: 14.744 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.737 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.737 ms
Loss rate: 0.76%
```

Run 1: Report of SCReAM — Data Link

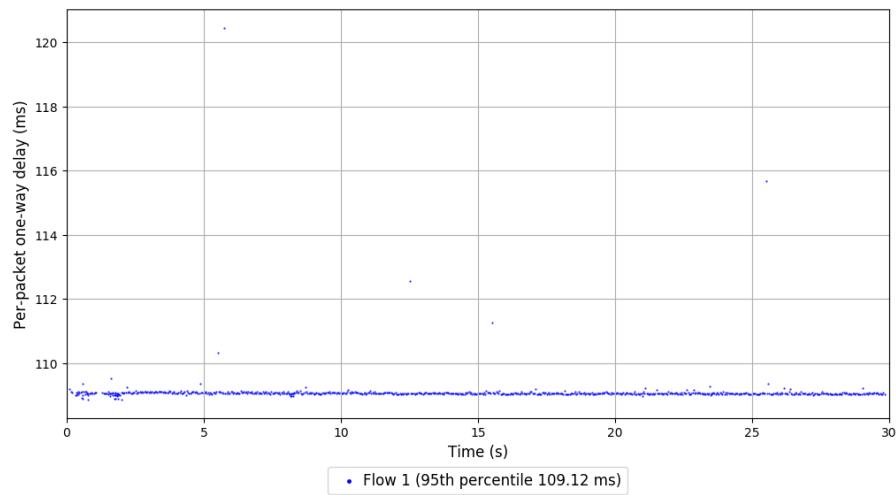
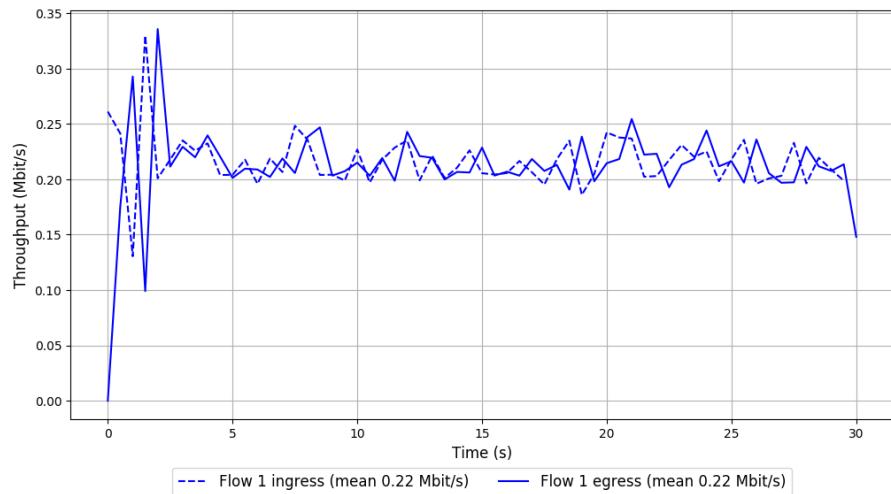


Run 2: Statistics of SCReAM

```
Start at: 2019-07-17 16:48:35
End at: 2019-07-17 16:49:05
Local clock offset: 26.963 ms
Remote clock offset: 26.135 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.117 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.117 ms
Loss rate: 0.77%
```

Run 2: Report of SCReAM — Data Link

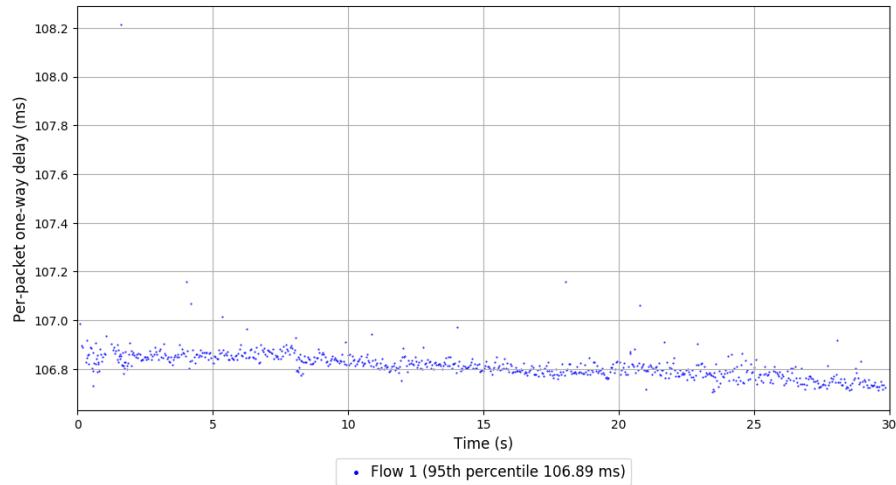
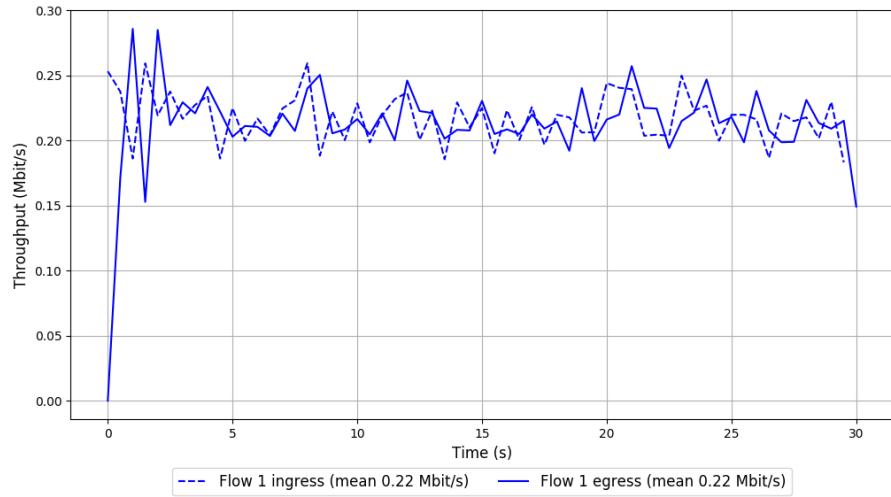


Run 3: Statistics of SCReAM

```
Start at: 2019-07-17 17:24:41
End at: 2019-07-17 17:25:11
Local clock offset: 15.922 ms
Remote clock offset: 8.964 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.885 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.885 ms
Loss rate: 0.64%
```

Run 3: Report of SCReAM — Data Link

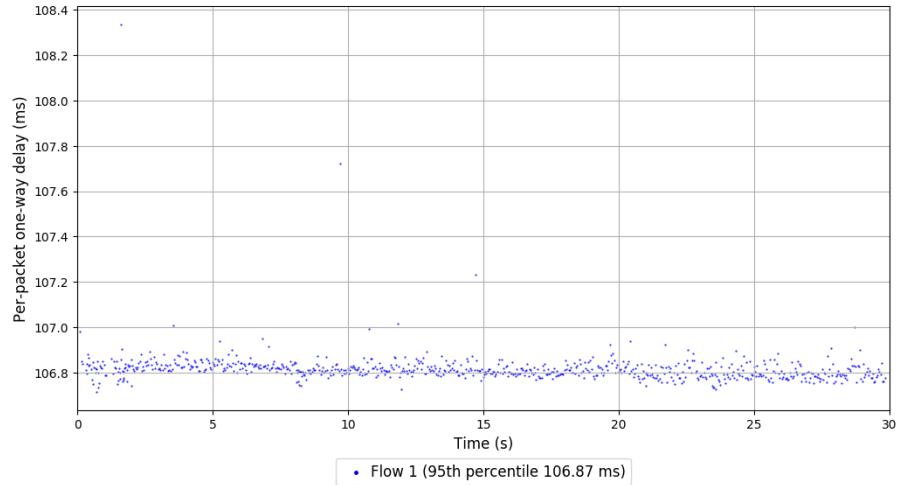
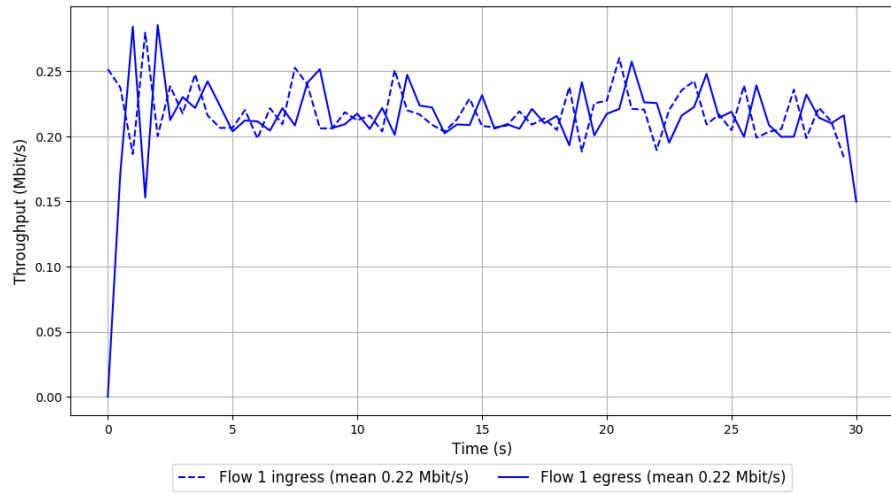


Run 4: Statistics of SCReAM

```
Start at: 2019-07-17 18:00:56
End at: 2019-07-17 18:01:26
Local clock offset: 8.02 ms
Remote clock offset: 3.666 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.872 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.872 ms
Loss rate: 0.64%
```

Run 4: Report of SCReAM — Data Link

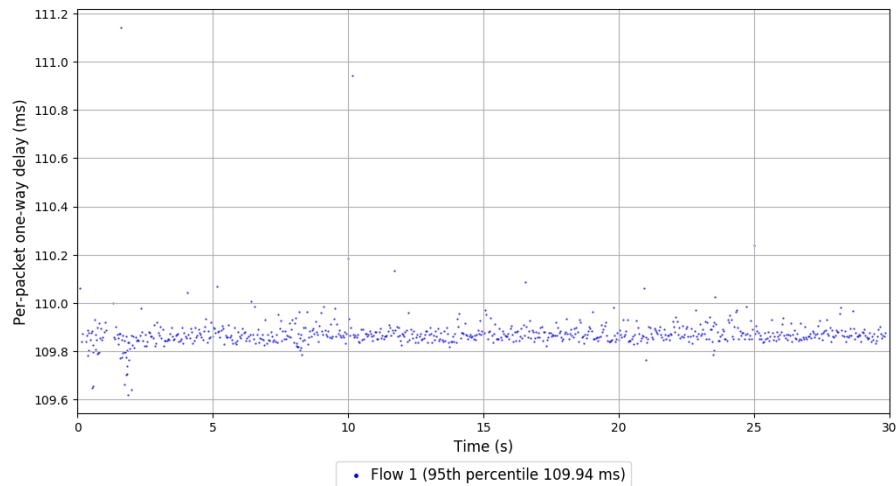
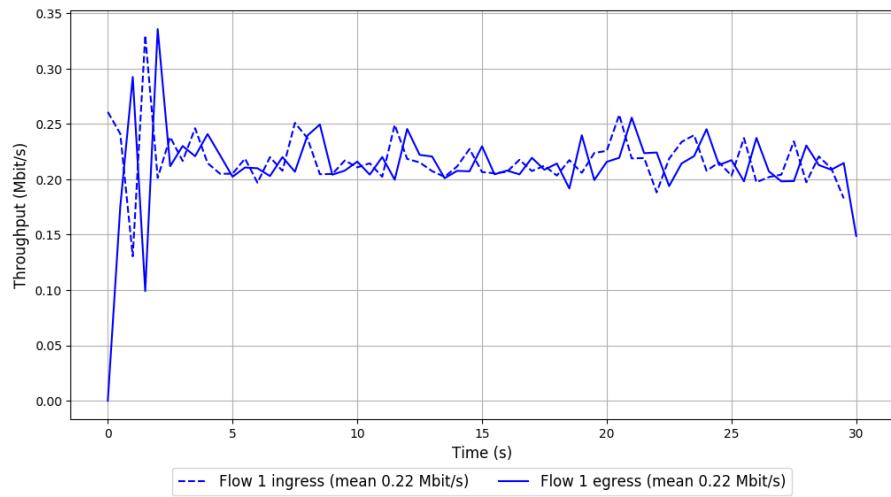


Run 5: Statistics of SCReAM

```
Start at: 2019-07-17 18:37:13
End at: 2019-07-17 18:37:43
Local clock offset: 2.399 ms
Remote clock offset: 1.772 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.938 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.938 ms
Loss rate: 0.64%
```

Run 5: Report of SCReAM — Data Link

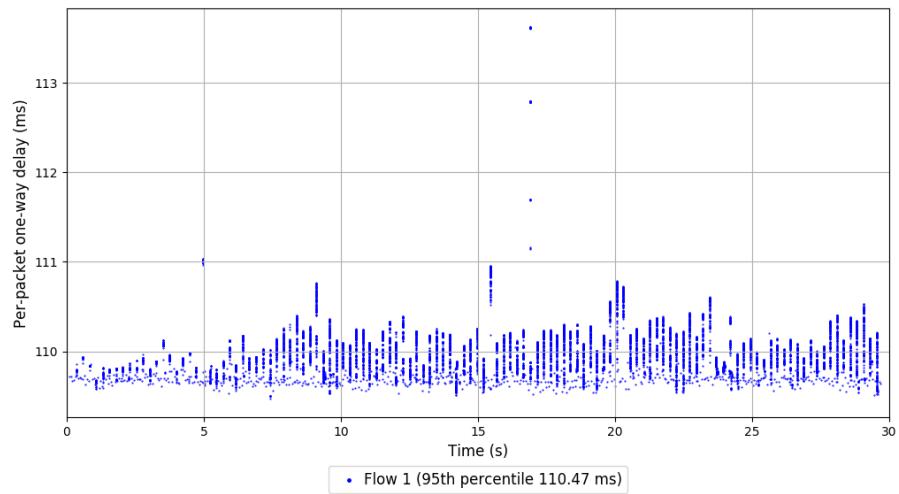
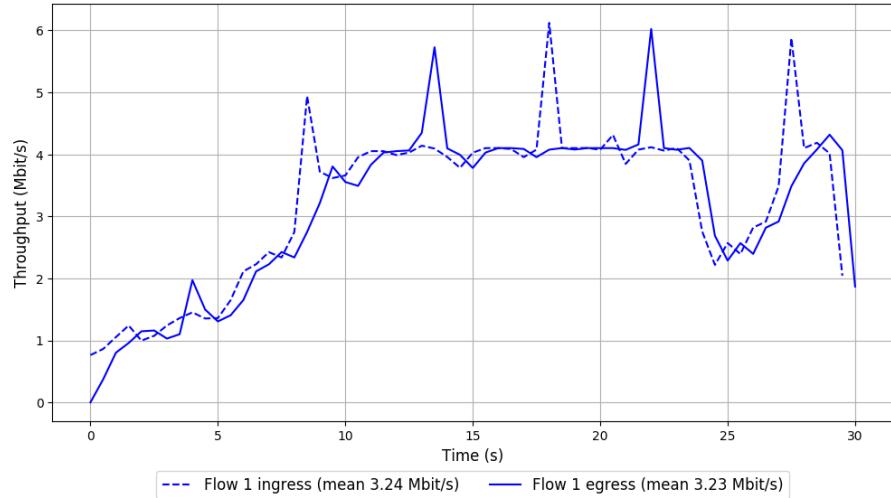


Run 1: Statistics of Sprout

```
Start at: 2019-07-17 16:17:00
End at: 2019-07-17 16:17:30
Local clock offset: 13.733 ms
Remote clock offset: 13.381 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 110.472 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 110.472 ms
Loss rate: 1.06%
```

Run 1: Report of Sprout — Data Link

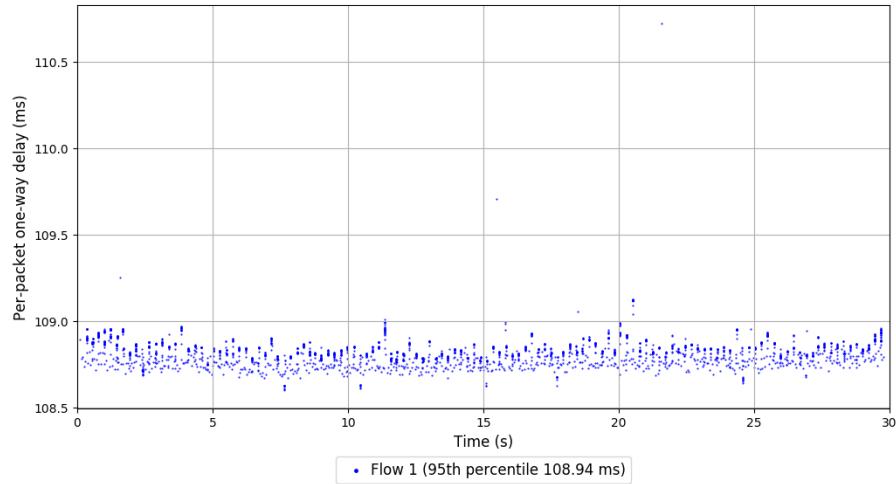
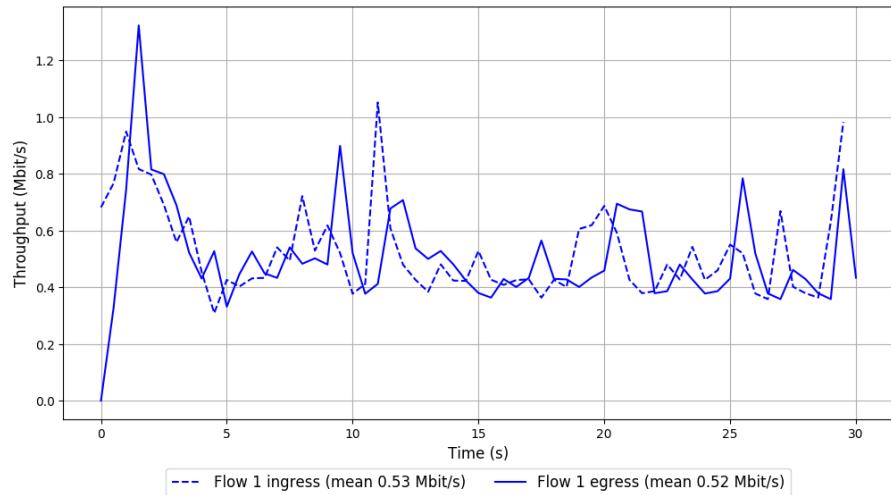


Run 2: Statistics of Sprout

```
Start at: 2019-07-17 16:52:52
End at: 2019-07-17 16:53:22
Local clock offset: 30.434 ms
Remote clock offset: 29.661 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 108.941 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 108.941 ms
Loss rate: 1.75%
```

Run 2: Report of Sprout — Data Link

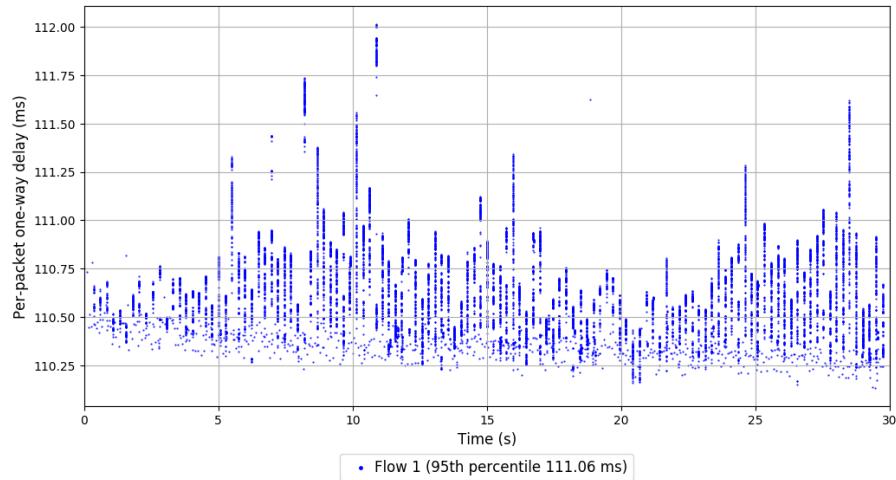
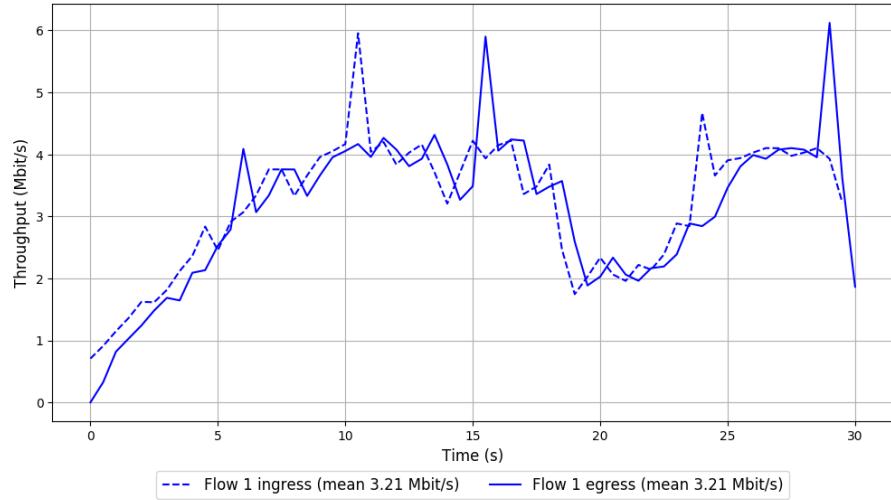


Run 3: Statistics of Sprout

```
Start at: 2019-07-17 17:28:55
End at: 2019-07-17 17:29:25
Local clock offset: 16.606 ms
Remote clock offset: 9.03 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 111.059 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 111.059 ms
Loss rate: 0.88%
```

Run 3: Report of Sprout — Data Link

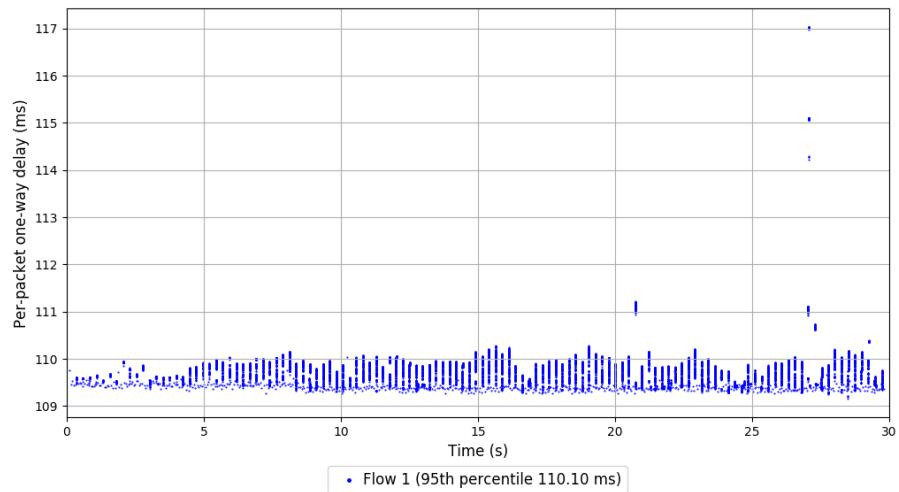
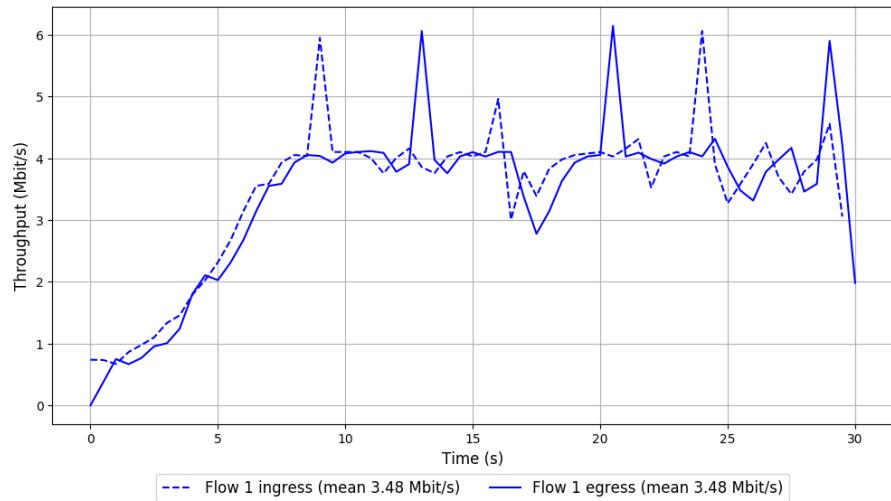


Run 4: Statistics of Sprout

```
Start at: 2019-07-17 18:05:10
End at: 2019-07-17 18:05:40
Local clock offset: 8.997 ms
Remote clock offset: 3.968 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 110.096 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 110.096 ms
Loss rate: 0.68%
```

Run 4: Report of Sprout — Data Link

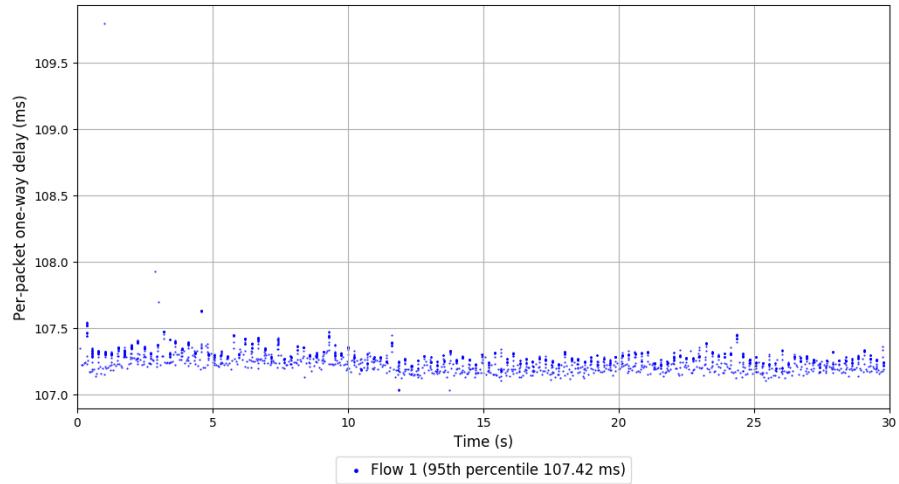
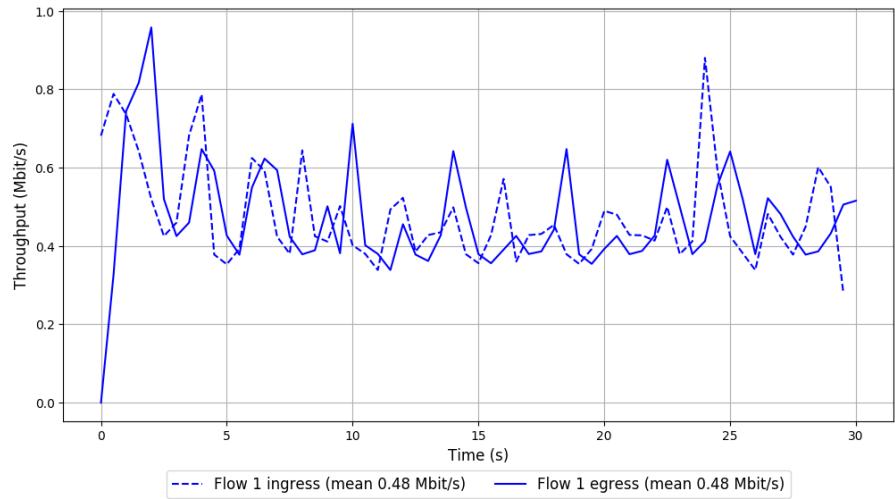


Run 5: Statistics of Sprout

```
Start at: 2019-07-17 18:41:28
End at: 2019-07-17 18:41:58
Local clock offset: 2.558 ms
Remote clock offset: 1.568 ms

# Below is generated by plot.py at 2019-07-17 20:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 107.419 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 107.419 ms
Loss rate: 0.15%
```

Run 5: Report of Sprout — Data Link

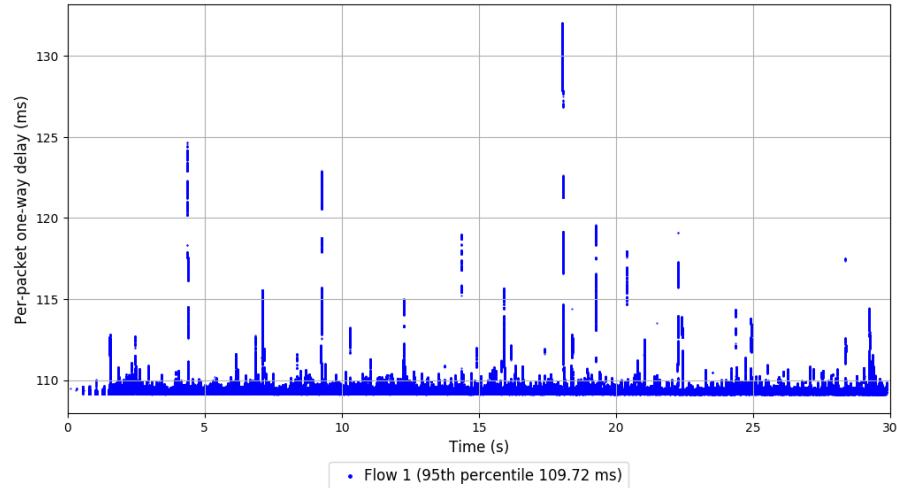
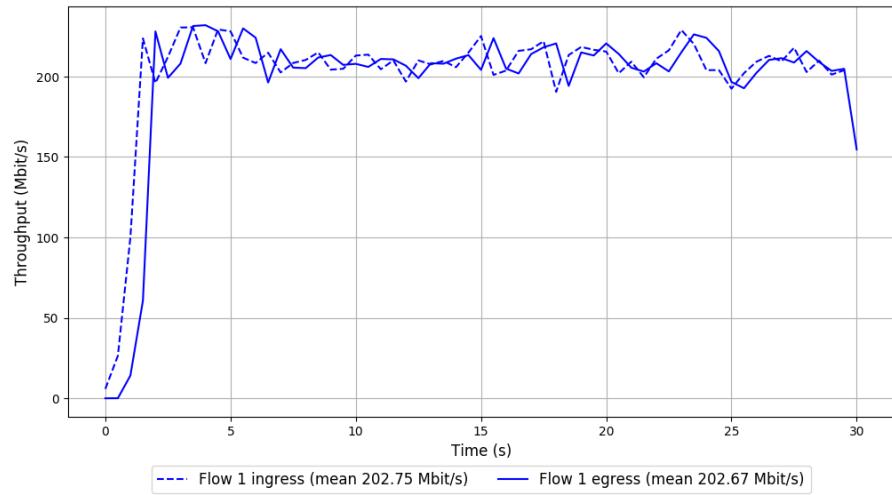


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-07-17 16:09:48
End at: 2019-07-17 16:10:18
Local clock offset: 15.537 ms
Remote clock offset: 14.826 ms

# Below is generated by plot.py at 2019-07-17 20:47:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.67 Mbit/s
95th percentile per-packet one-way delay: 109.721 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 202.67 Mbit/s
95th percentile per-packet one-way delay: 109.721 ms
Loss rate: 0.77%
```

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

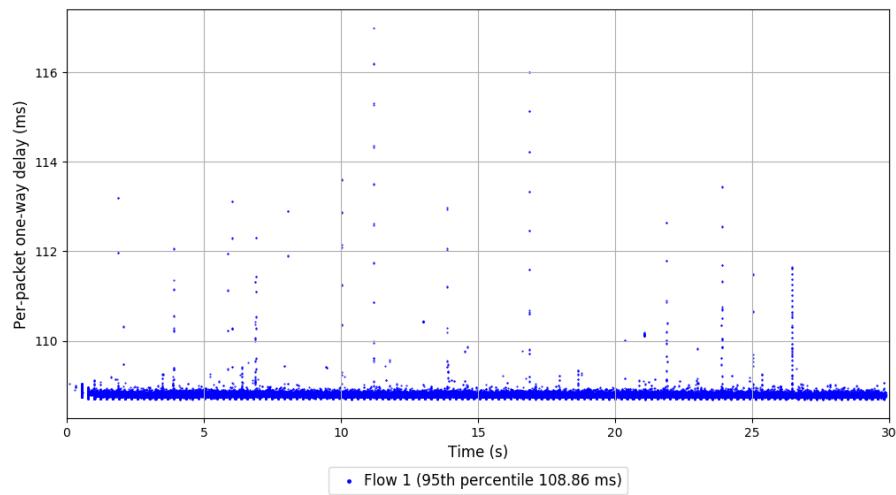
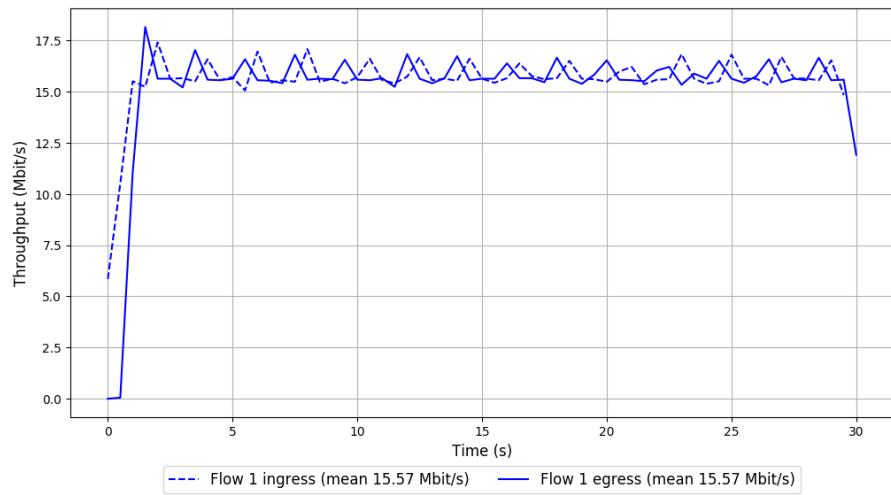


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-07-17 16:45:54
End at: 2019-07-17 16:46:24
Local clock offset: 24.166 ms
Remote clock offset: 23.6 ms

# Below is generated by plot.py at 2019-07-17 20:47:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 108.860 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 108.860 ms
Loss rate: 0.74%
```

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

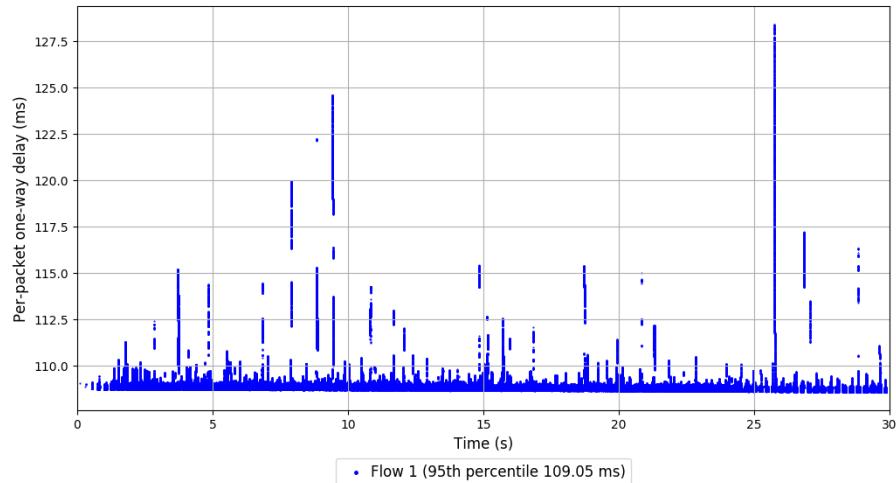
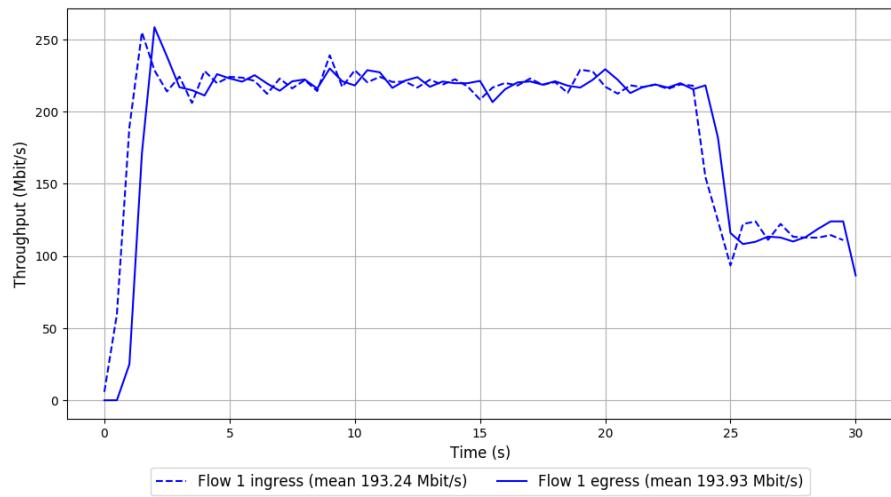


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-07-17 17:21:42
End at: 2019-07-17 17:22:12
Local clock offset: 15.458 ms
Remote clock offset: 9.447 ms

# Below is generated by plot.py at 2019-07-17 20:47:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.93 Mbit/s
95th percentile per-packet one-way delay: 109.045 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 193.93 Mbit/s
95th percentile per-packet one-way delay: 109.045 ms
Loss rate: 0.38%
```

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

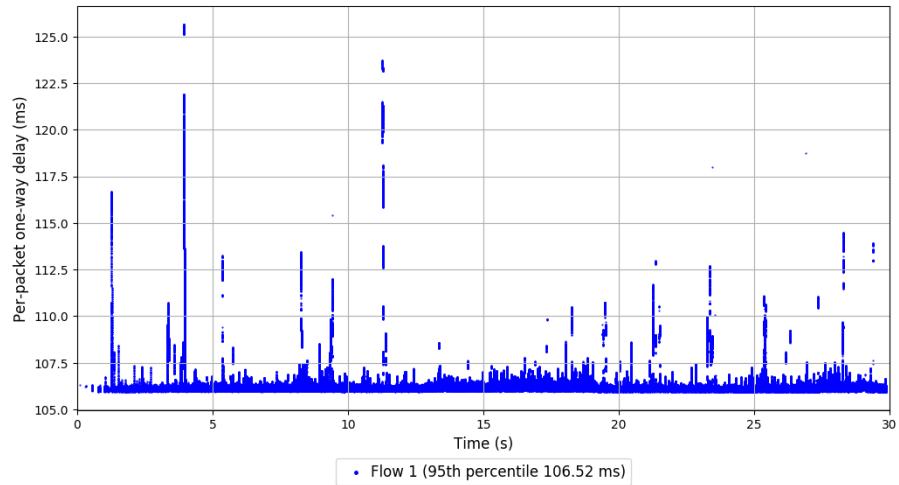
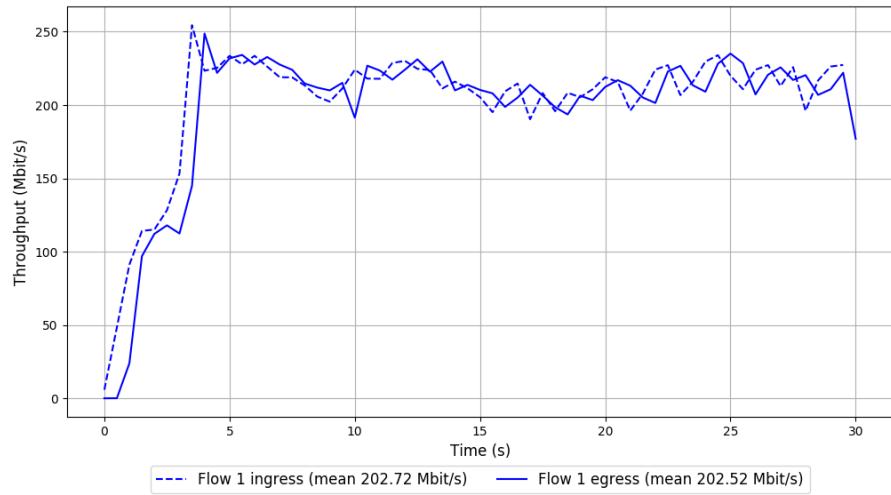


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-07-17 17:57:59
End at: 2019-07-17 17:58:29
Local clock offset: 6.949 ms
Remote clock offset: 3.557 ms

# Below is generated by plot.py at 2019-07-17 20:48:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.52 Mbit/s
95th percentile per-packet one-way delay: 106.517 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 202.52 Mbit/s
95th percentile per-packet one-way delay: 106.517 ms
Loss rate: 0.82%
```

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

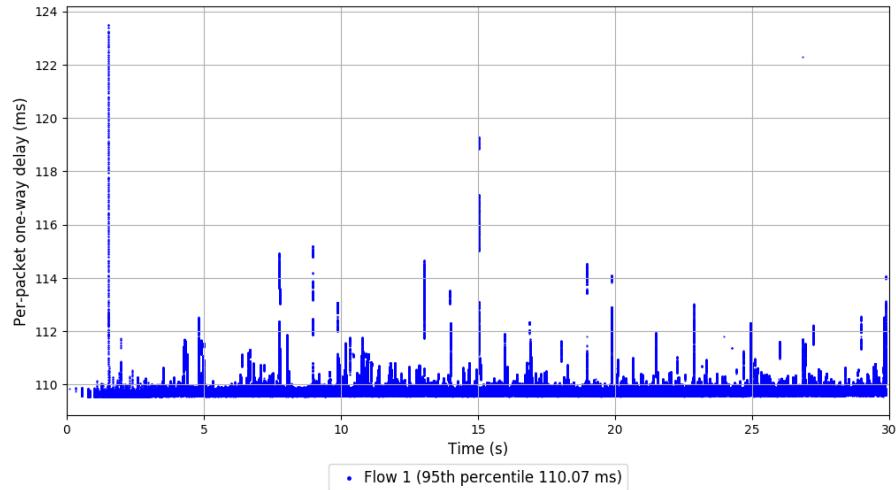
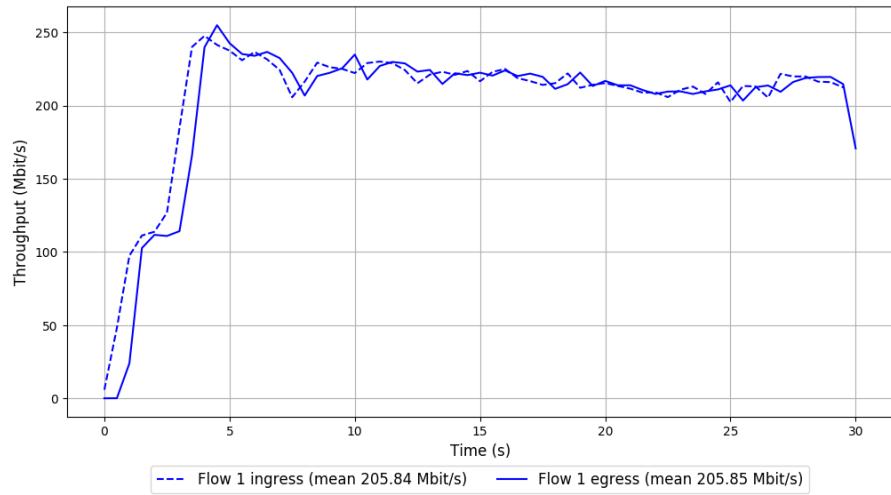


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-07-17 18:34:18
End at: 2019-07-17 18:34:48
Local clock offset: 2.355 ms
Remote clock offset: 1.669 ms

# Below is generated by plot.py at 2019-07-17 20:48:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.85 Mbit/s
95th percentile per-packet one-way delay: 110.067 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 205.85 Mbit/s
95th percentile per-packet one-way delay: 110.067 ms
Loss rate: 0.73%
```

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

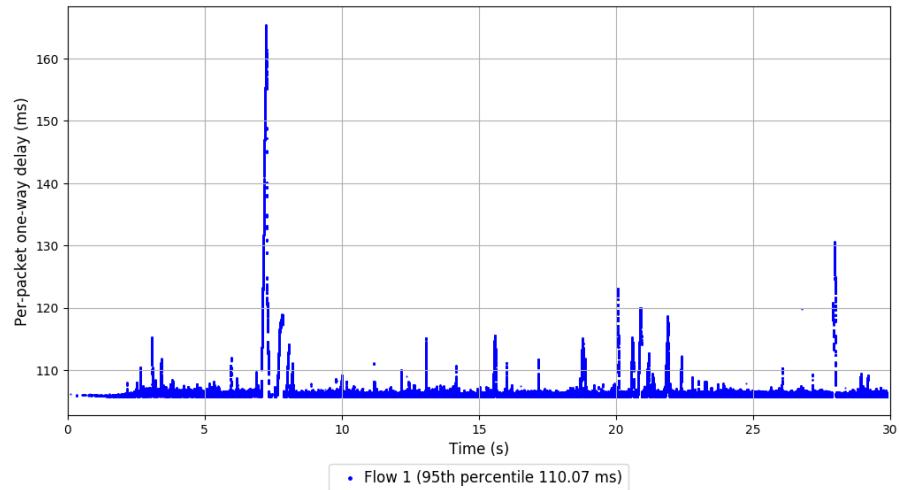
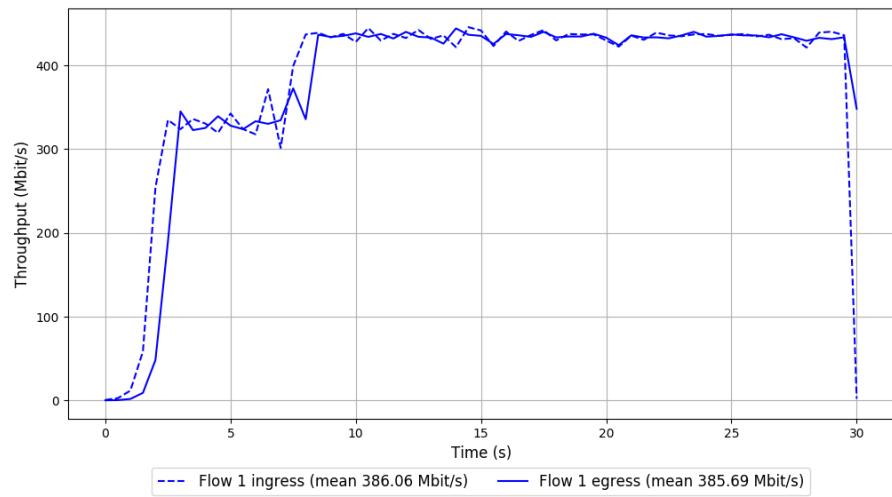


Run 1: Statistics of TCP Vegas

```
Start at: 2019-07-17 16:22:44
End at: 2019-07-17 16:23:14
Local clock offset: 18.977 ms
Remote clock offset: 18.554 ms

# Below is generated by plot.py at 2019-07-17 20:50:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 385.69 Mbit/s
95th percentile per-packet one-way delay: 110.072 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 385.69 Mbit/s
95th percentile per-packet one-way delay: 110.072 ms
Loss rate: 0.81%
```

Run 1: Report of TCP Vegas — Data Link

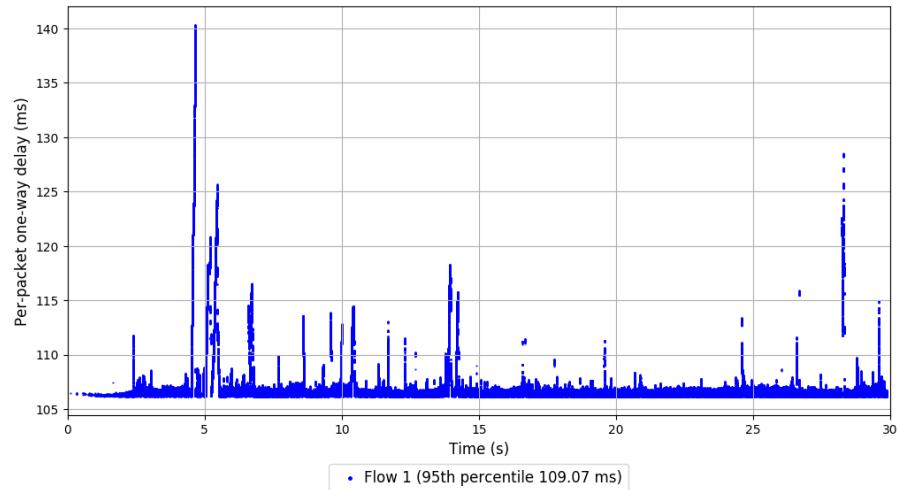
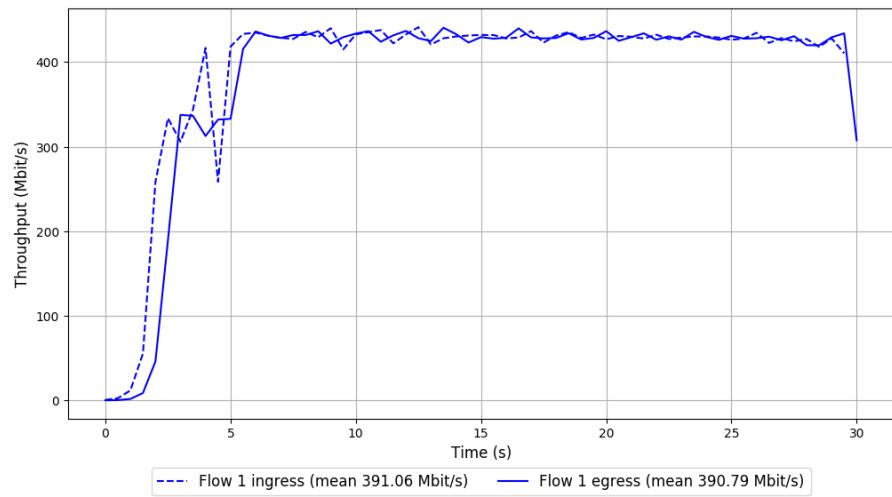


Run 2: Statistics of TCP Vegas

```
Start at: 2019-07-17 16:58:41
End at: 2019-07-17 16:59:11
Local clock offset: 36.542 ms
Remote clock offset: 35.729 ms

# Below is generated by plot.py at 2019-07-17 20:53:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.79 Mbit/s
95th percentile per-packet one-way delay: 109.072 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 390.79 Mbit/s
95th percentile per-packet one-way delay: 109.072 ms
Loss rate: 0.79%
```

Run 2: Report of TCP Vegas — Data Link

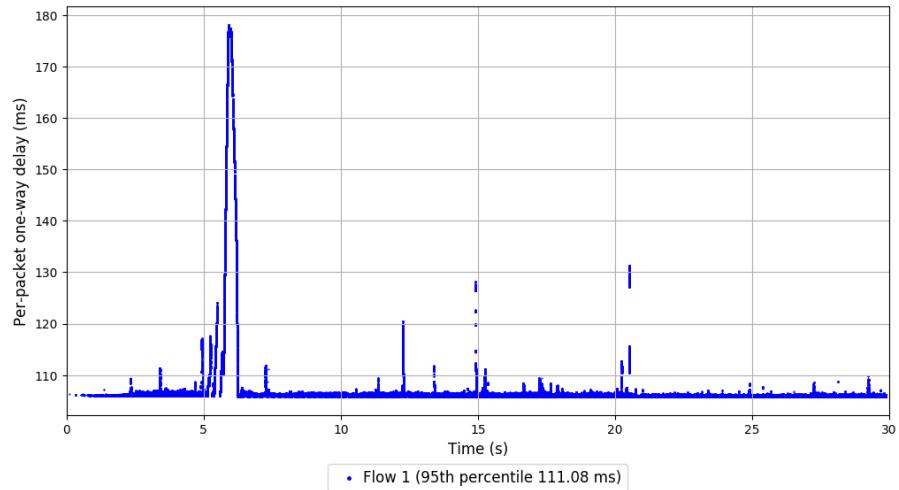
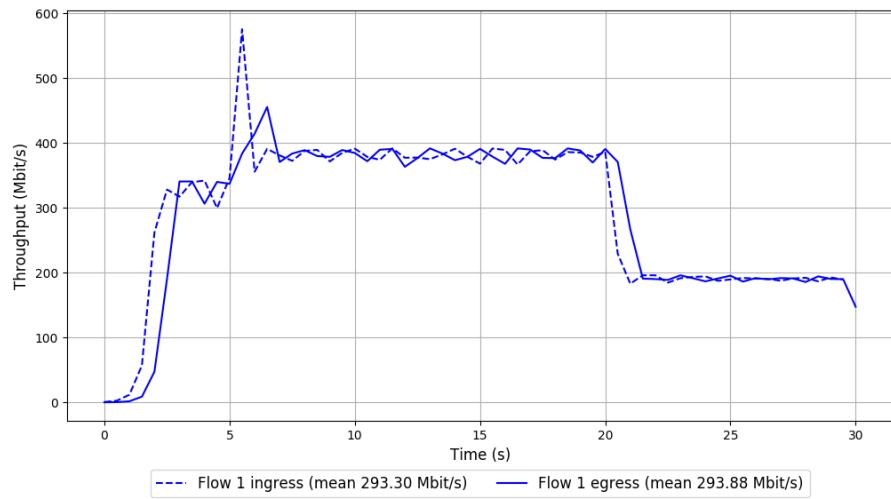


Run 3: Statistics of TCP Vegas

```
Start at: 2019-07-17 17:34:50
End at: 2019-07-17 17:35:20
Local clock offset: 19.873 ms
Remote clock offset: 9.746 ms

# Below is generated by plot.py at 2019-07-17 20:53:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.88 Mbit/s
95th percentile per-packet one-way delay: 111.082 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 293.88 Mbit/s
95th percentile per-packet one-way delay: 111.082 ms
Loss rate: 0.53%
```

Run 3: Report of TCP Vegas — Data Link

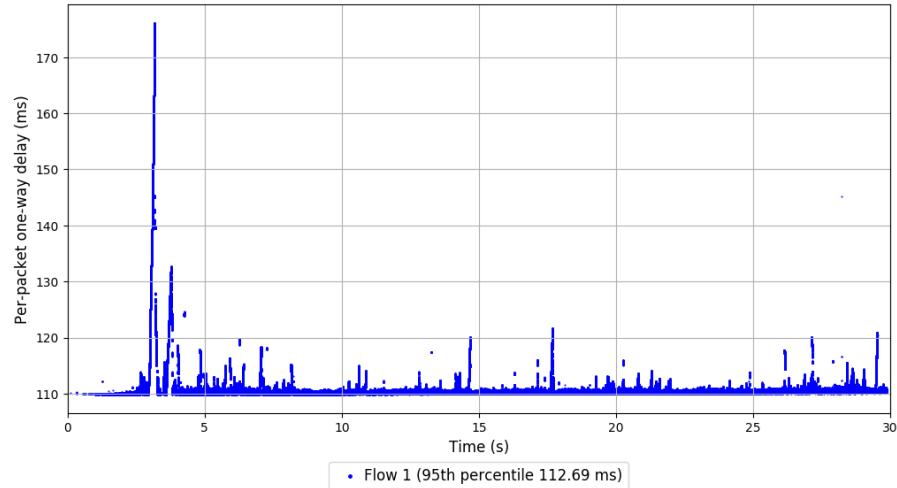
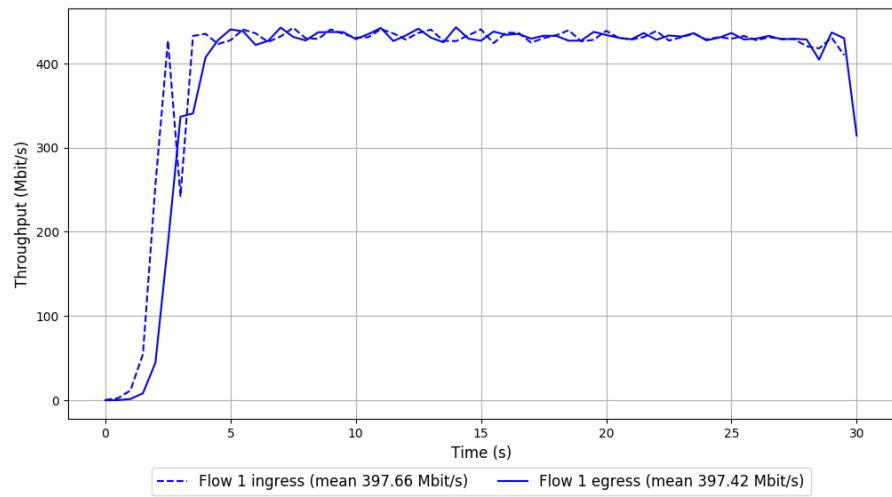


Run 4: Statistics of TCP Vegas

```
Start at: 2019-07-17 18:11:03
End at: 2019-07-17 18:11:33
Local clock offset: 9.954 ms
Remote clock offset: 4.567 ms

# Below is generated by plot.py at 2019-07-17 20:54:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 397.42 Mbit/s
95th percentile per-packet one-way delay: 112.695 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 397.42 Mbit/s
95th percentile per-packet one-way delay: 112.695 ms
Loss rate: 0.78%
```

Run 4: Report of TCP Vegas — Data Link

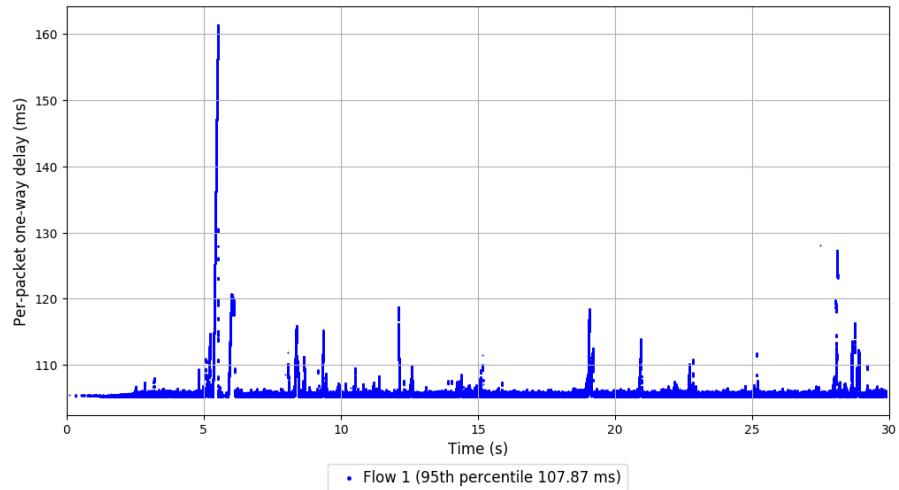
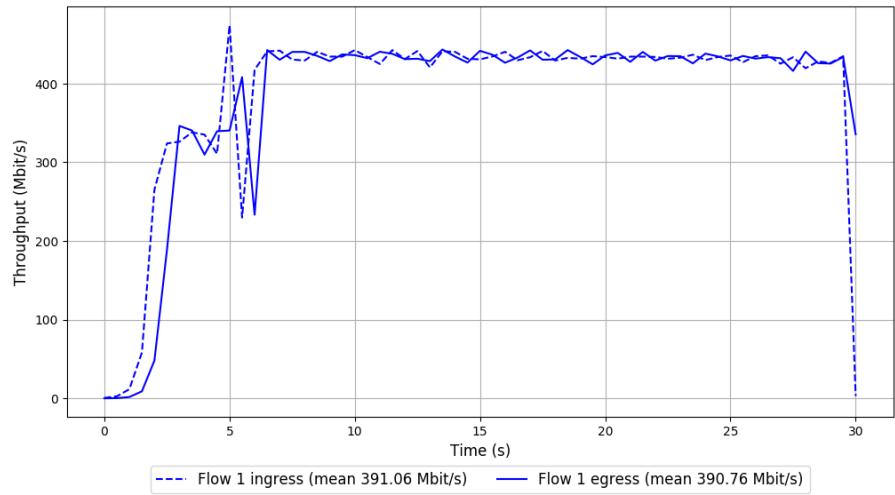


Run 5: Statistics of TCP Vegas

```
Start at: 2019-07-17 18:47:22
End at: 2019-07-17 18:47:52
Local clock offset: 1.329 ms
Remote clock offset: 1.705 ms

# Below is generated by plot.py at 2019-07-17 20:54:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.76 Mbit/s
95th percentile per-packet one-way delay: 107.870 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 390.76 Mbit/s
95th percentile per-packet one-way delay: 107.870 ms
Loss rate: 0.80%
```

Run 5: Report of TCP Vegas — Data Link

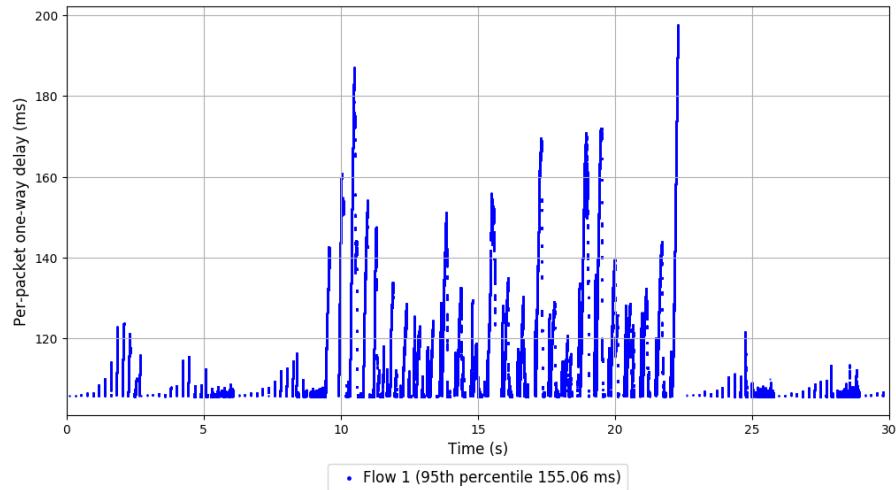
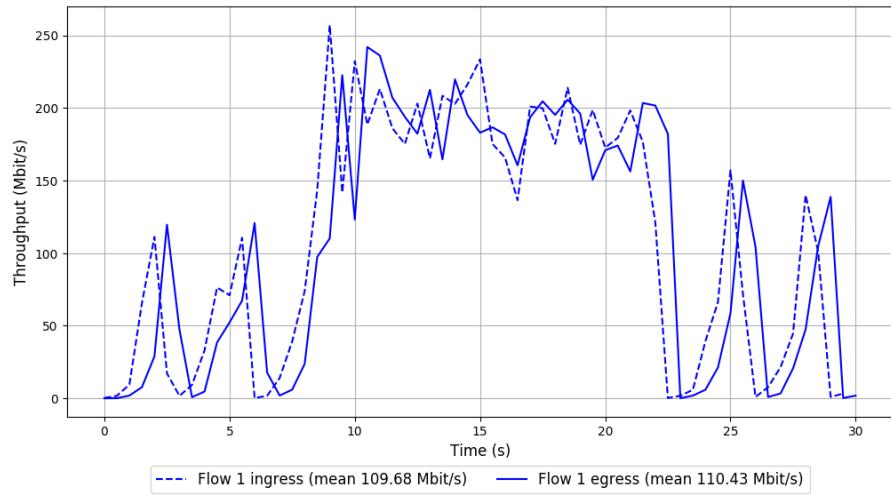


Run 1: Statistics of Verus

```
Start at: 2019-07-17 16:18:11
End at: 2019-07-17 16:18:41
Local clock offset: 14.261 ms
Remote clock offset: 14.124 ms

# Below is generated by plot.py at 2019-07-17 20:54:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 110.43 Mbit/s
95th percentile per-packet one-way delay: 155.061 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 110.43 Mbit/s
95th percentile per-packet one-way delay: 155.061 ms
Loss rate: 0.03%
```

Run 1: Report of Verus — Data Link

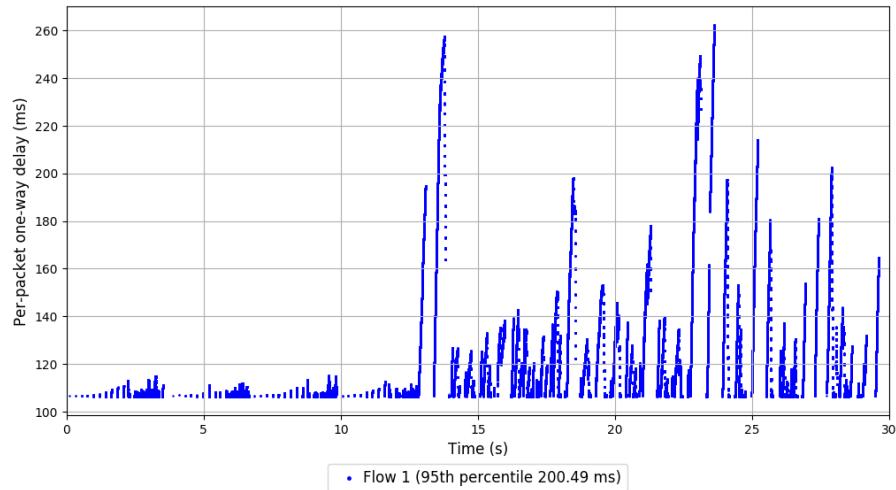
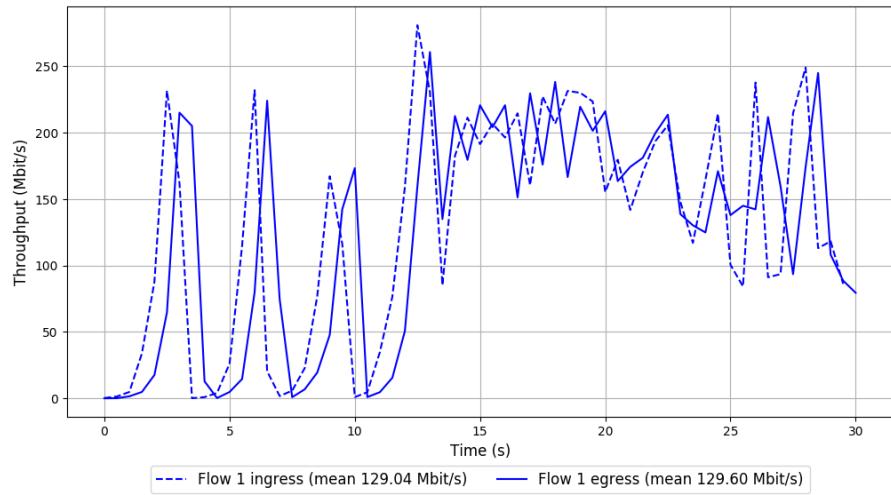


Run 2: Statistics of Verus

```
Start at: 2019-07-17 16:54:02
End at: 2019-07-17 16:54:32
Local clock offset: 31.631 ms
Remote clock offset: 30.803 ms

# Below is generated by plot.py at 2019-07-17 20:54:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 129.60 Mbit/s
95th percentile per-packet one-way delay: 200.494 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 129.60 Mbit/s
95th percentile per-packet one-way delay: 200.494 ms
Loss rate: 1.13%
```

Run 2: Report of Verus — Data Link

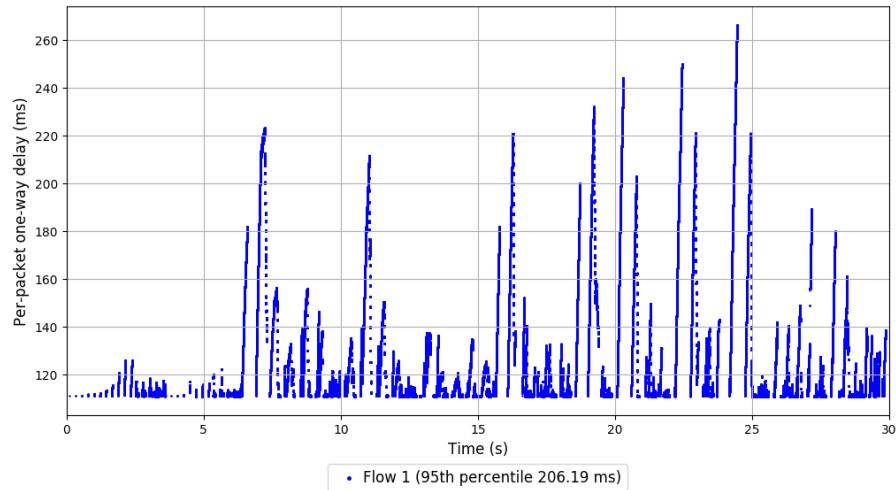
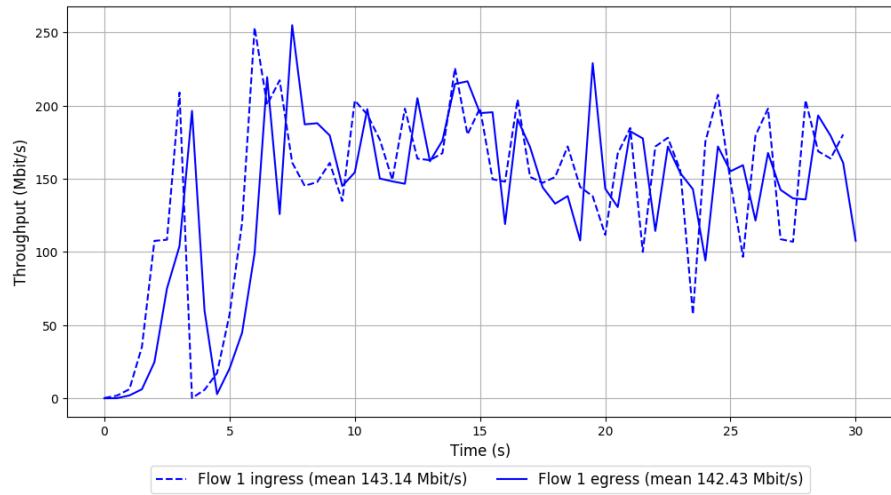


Run 3: Statistics of Verus

```
Start at: 2019-07-17 17:30:05
End at: 2019-07-17 17:30:35
Local clock offset: 17.687 ms
Remote clock offset: 9.107 ms

# Below is generated by plot.py at 2019-07-17 20:54:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 142.43 Mbit/s
95th percentile per-packet one-way delay: 206.185 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 142.43 Mbit/s
95th percentile per-packet one-way delay: 206.185 ms
Loss rate: 1.23%
```

Run 3: Report of Verus — Data Link

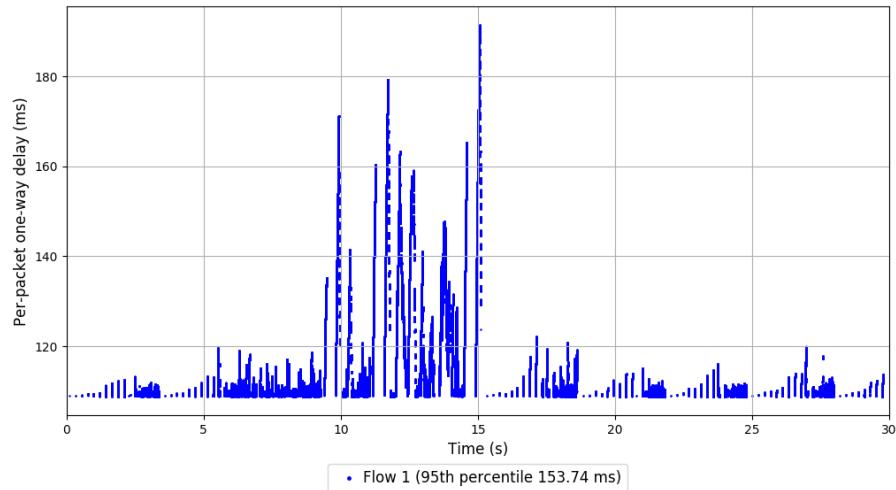
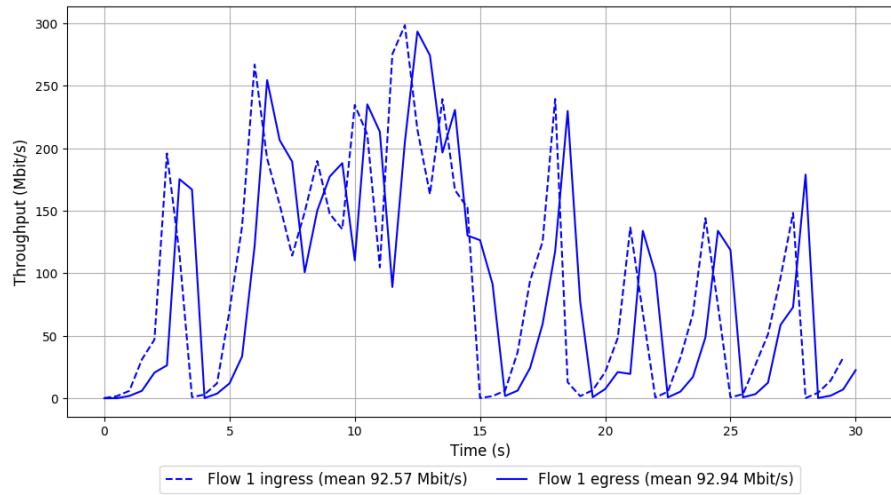


Run 4: Statistics of Verus

```
Start at: 2019-07-17 18:06:21
End at: 2019-07-17 18:06:51
Local clock offset: 8.979 ms
Remote clock offset: 4.081 ms

# Below is generated by plot.py at 2019-07-17 20:54:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 153.736 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 153.736 ms
Loss rate: 0.35%
```

Run 4: Report of Verus — Data Link

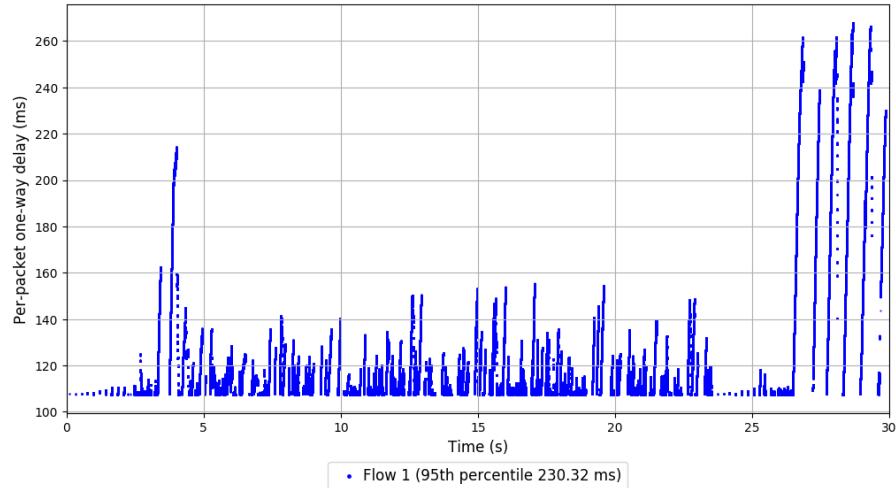
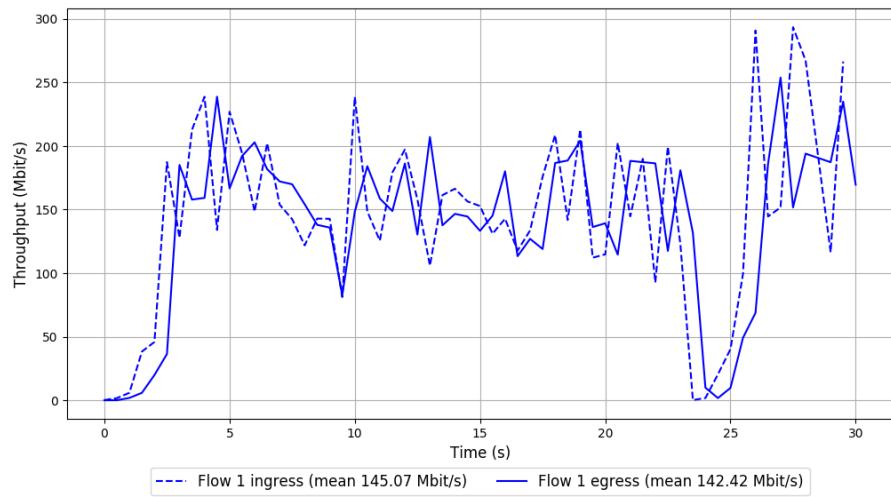


Run 5: Statistics of Verus

```
Start at: 2019-07-17 18:42:37
End at: 2019-07-17 18:43:07
Local clock offset: 3.17 ms
Remote clock offset: 2.006 ms

# Below is generated by plot.py at 2019-07-17 20:56:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 142.42 Mbit/s
95th percentile per-packet one-way delay: 230.318 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 142.42 Mbit/s
95th percentile per-packet one-way delay: 230.318 ms
Loss rate: 2.16%
```

Run 5: Report of Verus — Data Link

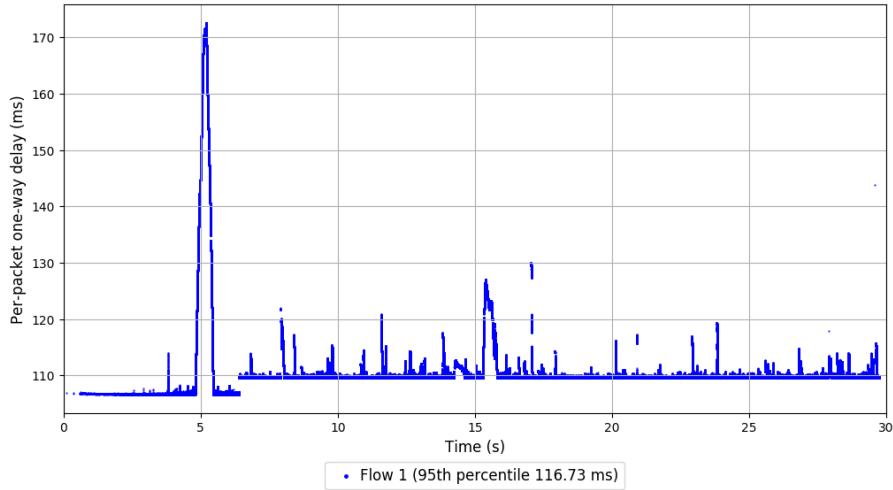
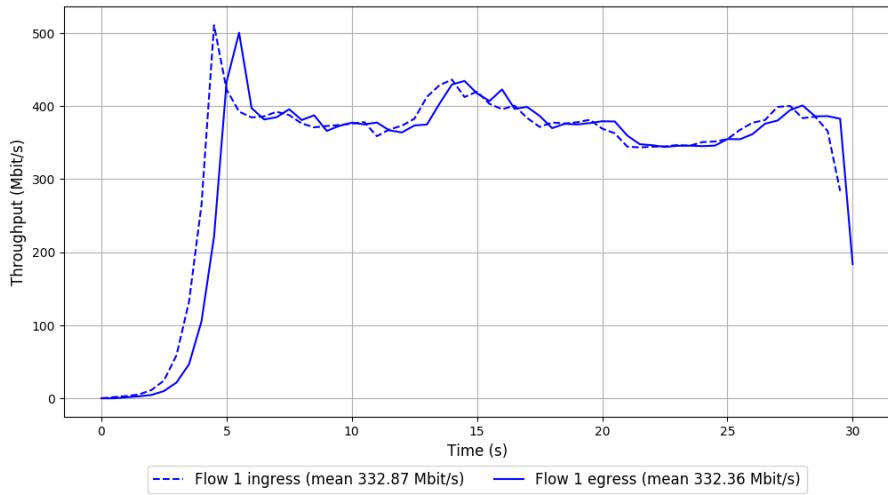


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-07-17 15:59:24
End at: 2019-07-17 15:59:54
Local clock offset: 6.766 ms
Remote clock offset: 5.964 ms

# Below is generated by plot.py at 2019-07-17 20:57:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.36 Mbit/s
95th percentile per-packet one-way delay: 116.735 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 332.36 Mbit/s
95th percentile per-packet one-way delay: 116.735 ms
Loss rate: 0.87%
```

Run 1: Report of PCC-Vivace — Data Link

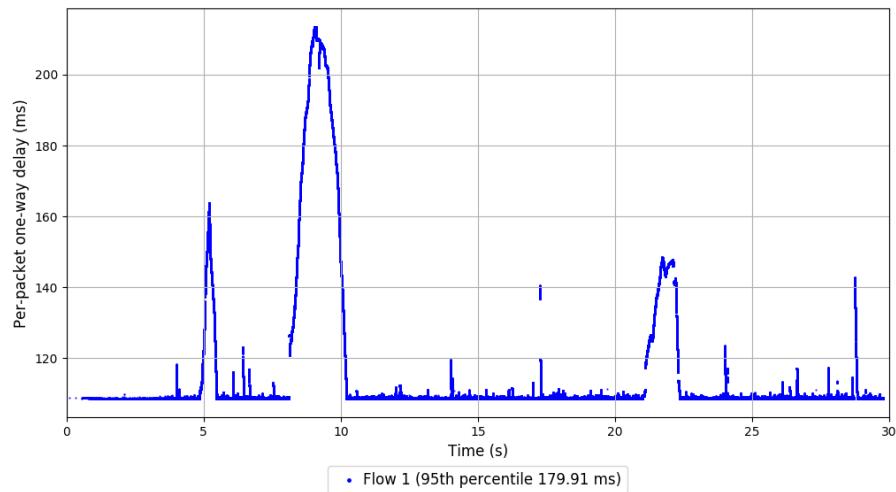
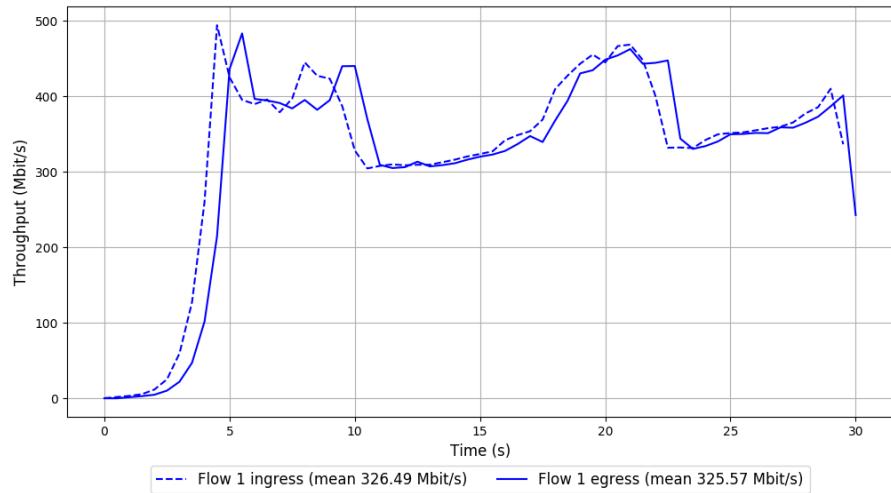


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-07-17 16:35:23
End at: 2019-07-17 16:35:53
Local clock offset: 20.195 ms
Remote clock offset: 19.826 ms

# Below is generated by plot.py at 2019-07-17 20:57:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.57 Mbit/s
95th percentile per-packet one-way delay: 179.915 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 325.57 Mbit/s
95th percentile per-packet one-way delay: 179.915 ms
Loss rate: 1.01%
```

Run 2: Report of PCC-Vivace — Data Link

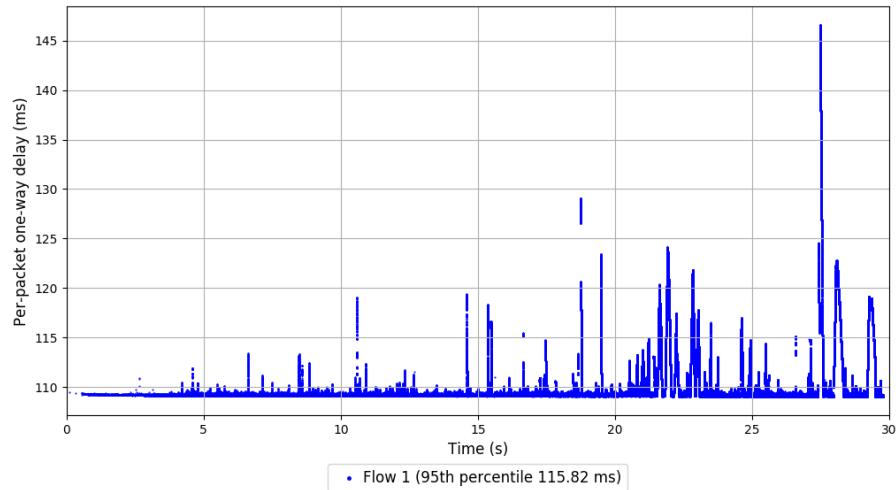
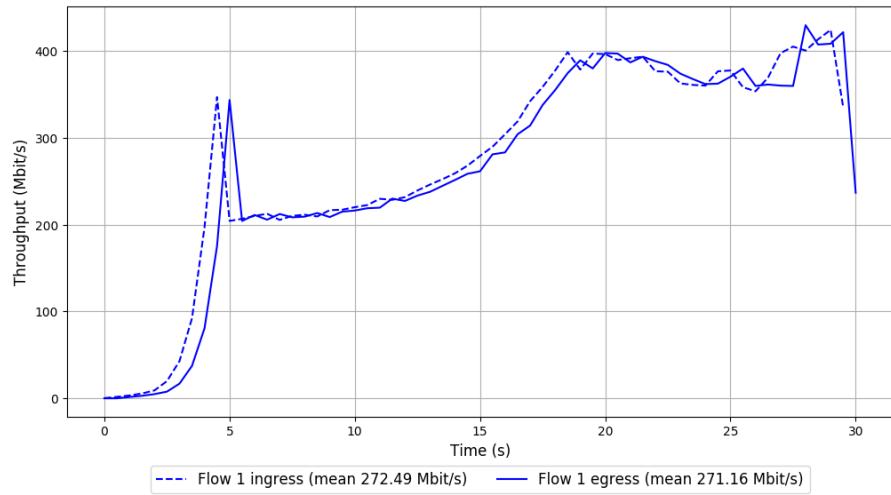


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-07-17 17:11:22
End at: 2019-07-17 17:11:52
Local clock offset: 19.816 ms
Remote clock offset: 16.47 ms

# Below is generated by plot.py at 2019-07-17 20:57:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 271.16 Mbit/s
95th percentile per-packet one-way delay: 115.823 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 271.16 Mbit/s
95th percentile per-packet one-way delay: 115.823 ms
Loss rate: 1.22%
```

Run 3: Report of PCC-Vivace — Data Link

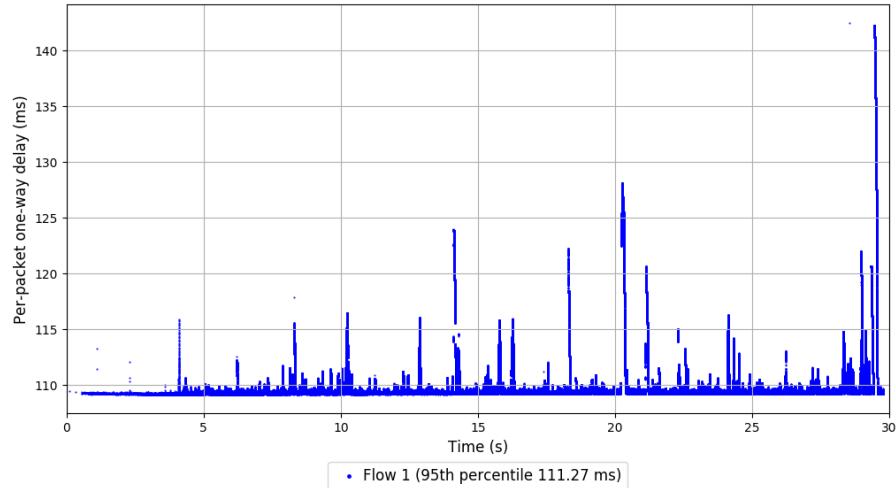
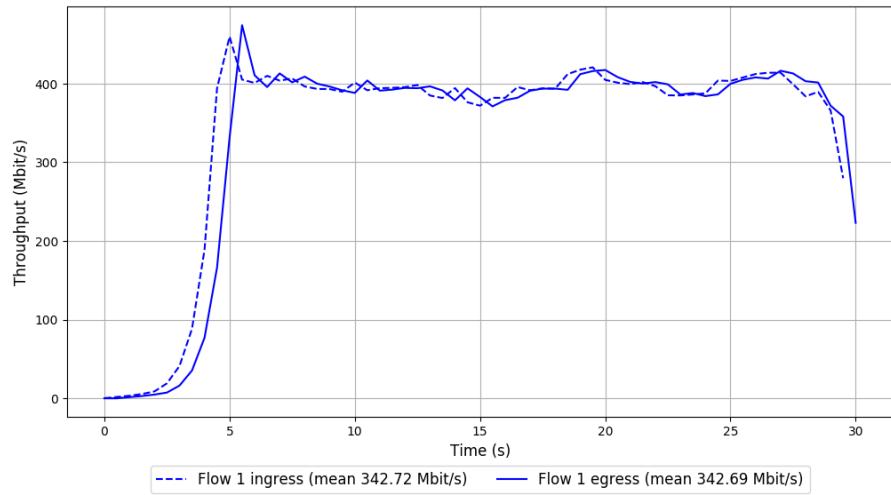


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-07-17 17:47:26
End at: 2019-07-17 17:47:56
Local clock offset: 9.048 ms
Remote clock offset: 4.216 ms

# Below is generated by plot.py at 2019-07-17 20:57:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.69 Mbit/s
95th percentile per-packet one-way delay: 111.274 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 342.69 Mbit/s
95th percentile per-packet one-way delay: 111.274 ms
Loss rate: 0.74%
```

Run 4: Report of PCC-Vivace — Data Link

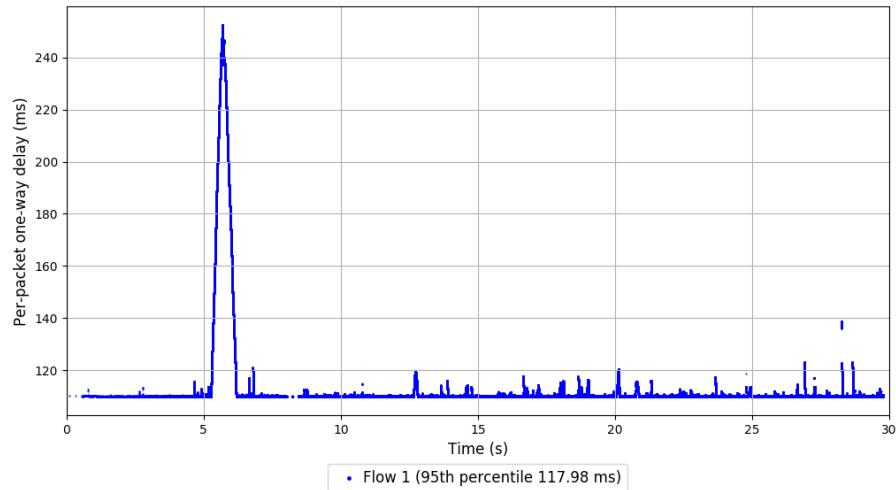
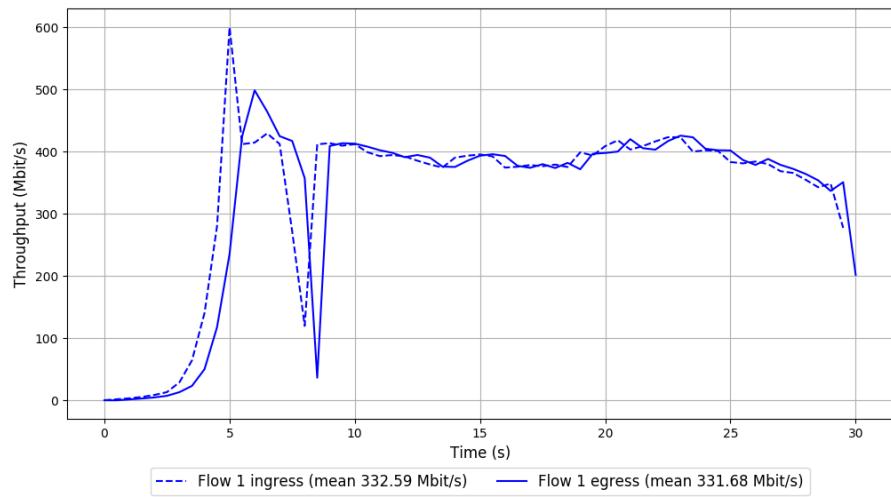


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-07-17 18:23:44
End at: 2019-07-17 18:24:14
Local clock offset: 3.275 ms
Remote clock offset: 1.742 ms

# Below is generated by plot.py at 2019-07-17 20:57:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.68 Mbit/s
95th percentile per-packet one-way delay: 117.978 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 331.68 Mbit/s
95th percentile per-packet one-way delay: 117.978 ms
Loss rate: 1.01%
```

Run 5: Report of PCC-Vivace — Data Link

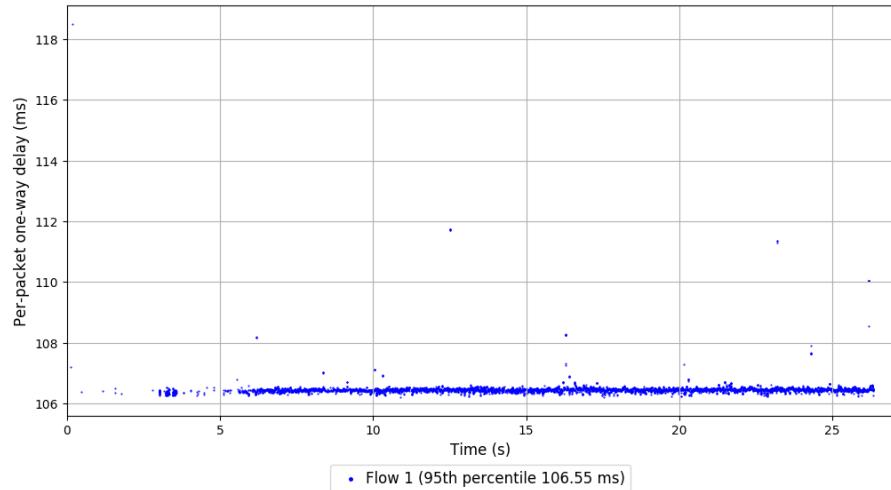
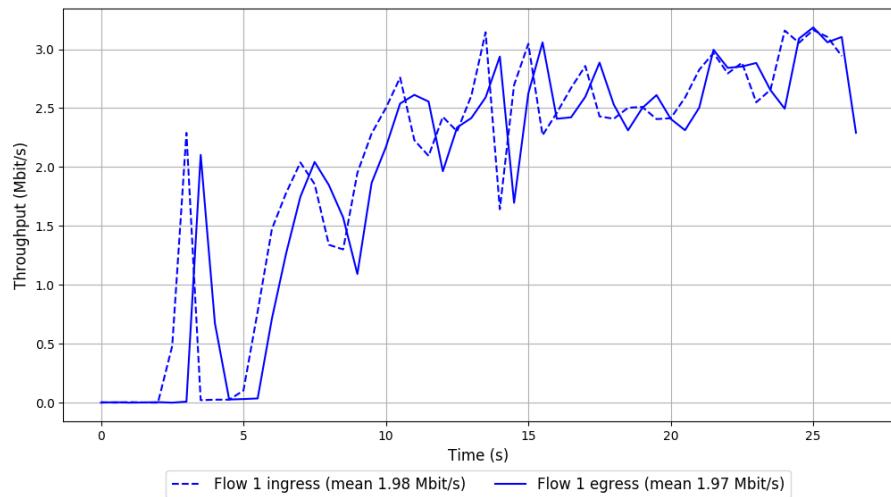


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-07-17 16:27:41
End at: 2019-07-17 16:28:11
Local clock offset: 25.911 ms
Remote clock offset: 25.545 ms

# Below is generated by plot.py at 2019-07-17 20:57:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 106.547 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 106.547 ms
Loss rate: 1.28%
```

Run 1: Report of WebRTC media — Data Link

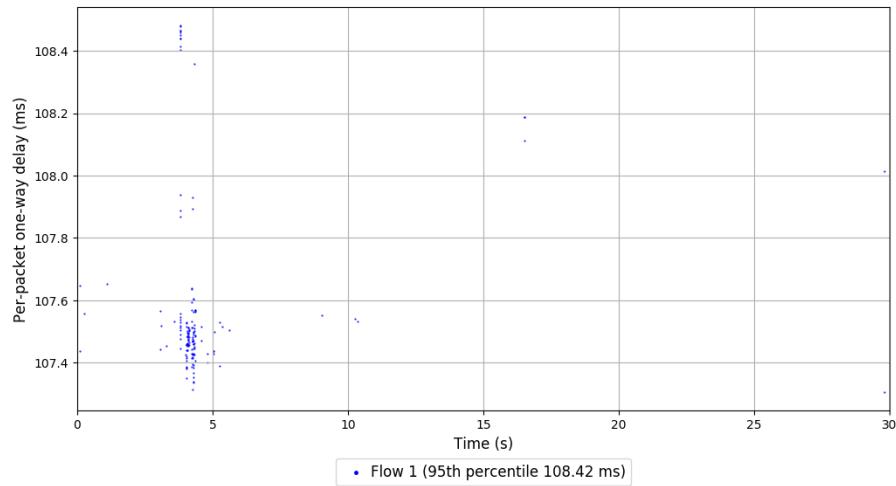
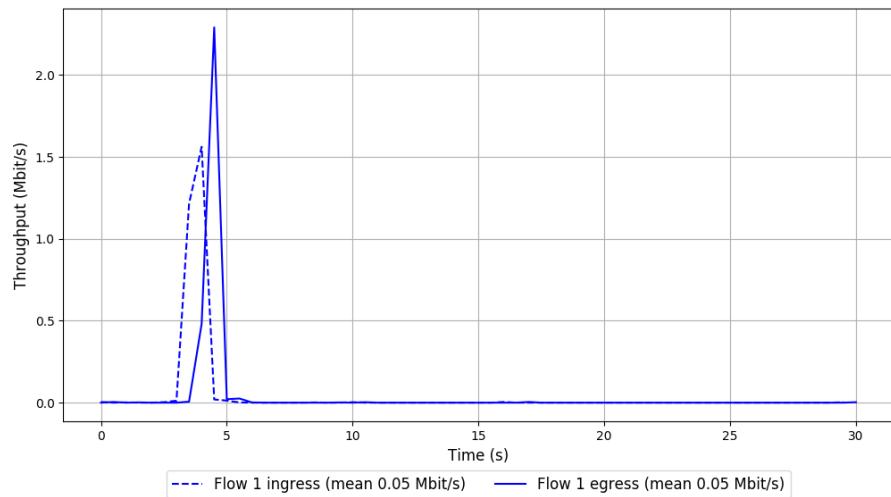


Run 2: Statistics of WebRTC media

```
Start at: 2019-07-17 17:03:42
End at: 2019-07-17 17:04:12
Local clock offset: 37.616 ms
Remote clock offset: 35.469 ms

# Below is generated by plot.py at 2019-07-17 20:57:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 108.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 108.415 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

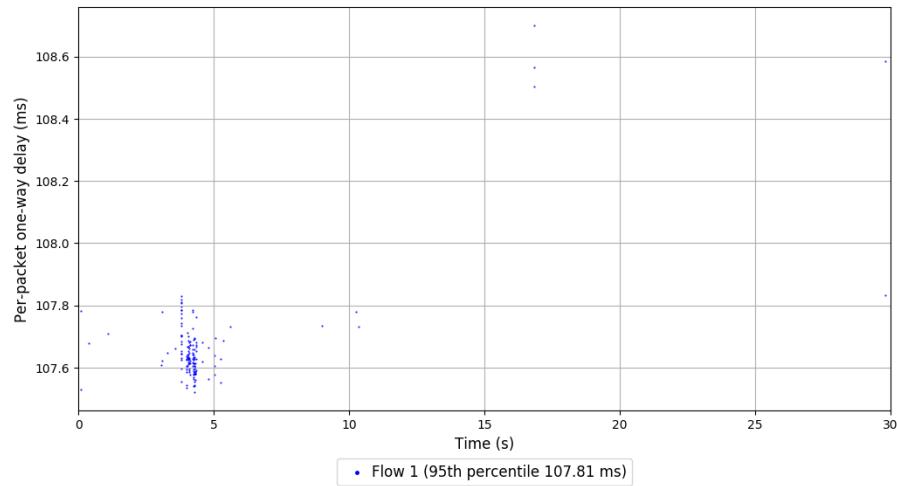
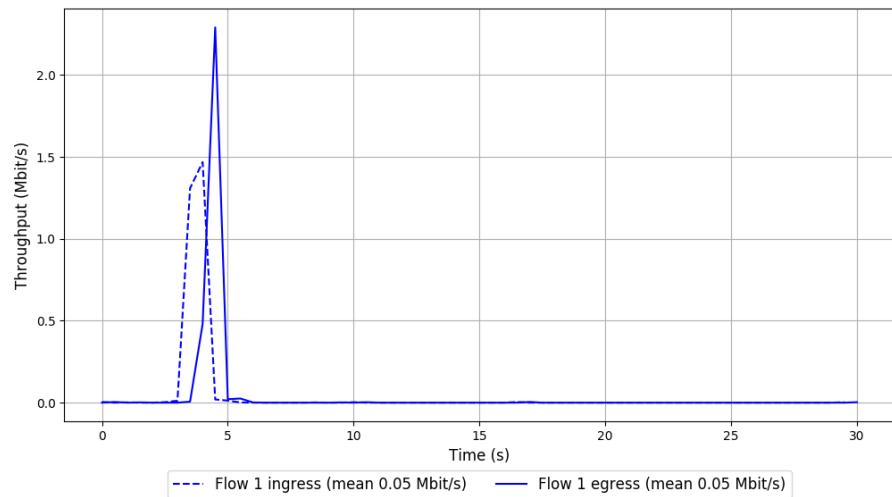


Run 3: Statistics of WebRTC media

```
Start at: 2019-07-17 17:39:45
End at: 2019-07-17 17:40:15
Local clock offset: 15.989 ms
Remote clock offset: 7.399 ms

# Below is generated by plot.py at 2019-07-17 20:57:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 107.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 107.806 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

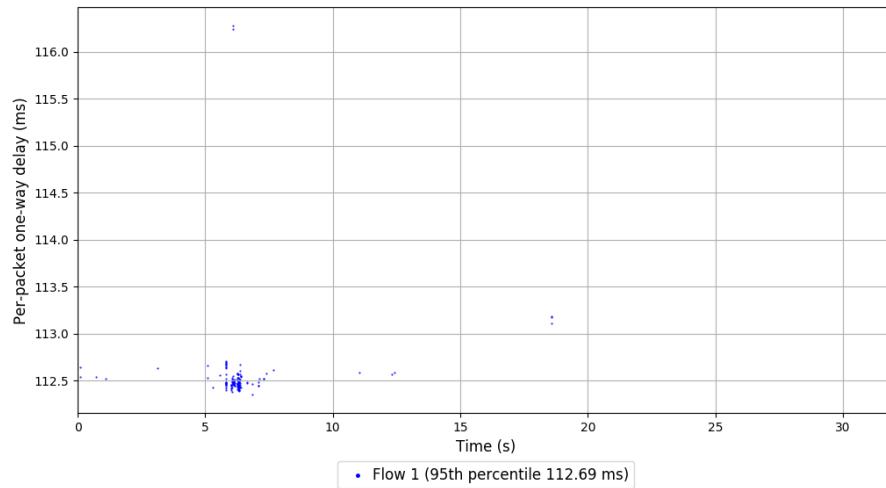
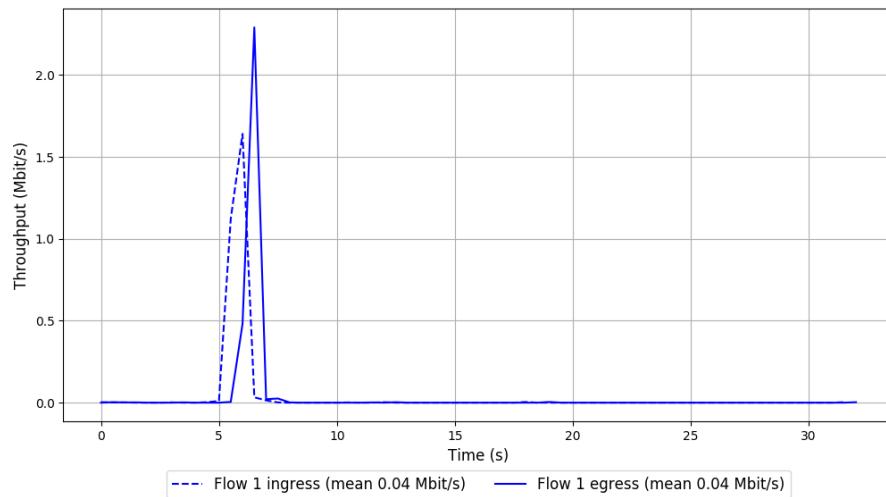


Run 4: Statistics of WebRTC media

```
Start at: 2019-07-17 18:16:07
End at: 2019-07-17 18:16:37
Local clock offset: 6.146 ms
Remote clock offset: 2.785 ms

# Below is generated by plot.py at 2019-07-17 20:57:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 112.687 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 112.687 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-07-17 18:52:23
End at: 2019-07-17 18:52:53
Local clock offset: 1.13 ms
Remote clock offset: 1.105 ms

# Below is generated by plot.py at 2019-07-17 20:57:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 107.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 107.120 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

