

Pantheon Report

Generated at 2019-06-27 15:35:08 (UTC).
Data path: Colombia on p4p1 (*remote*) → AWS Brazil 2 on ens5 (*local*).
Repeated the test of 22 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

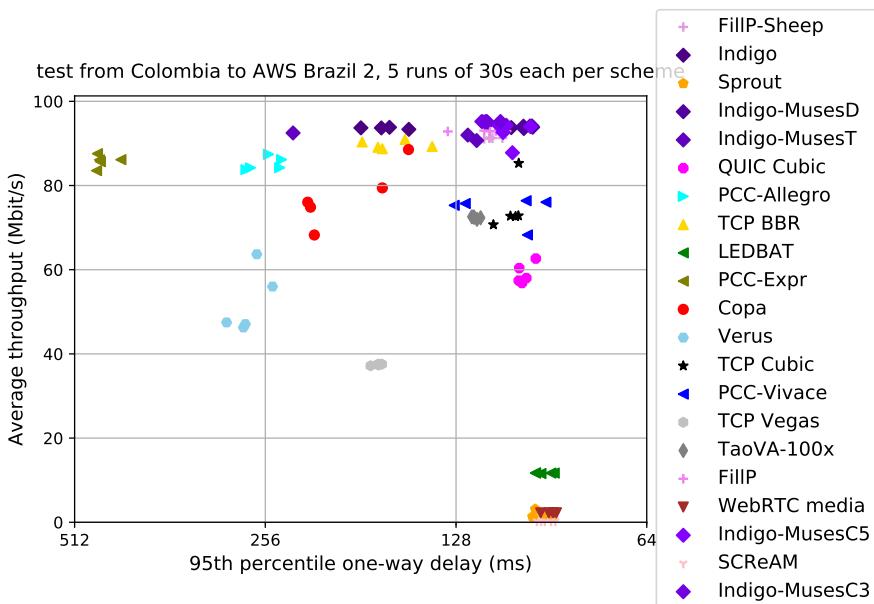
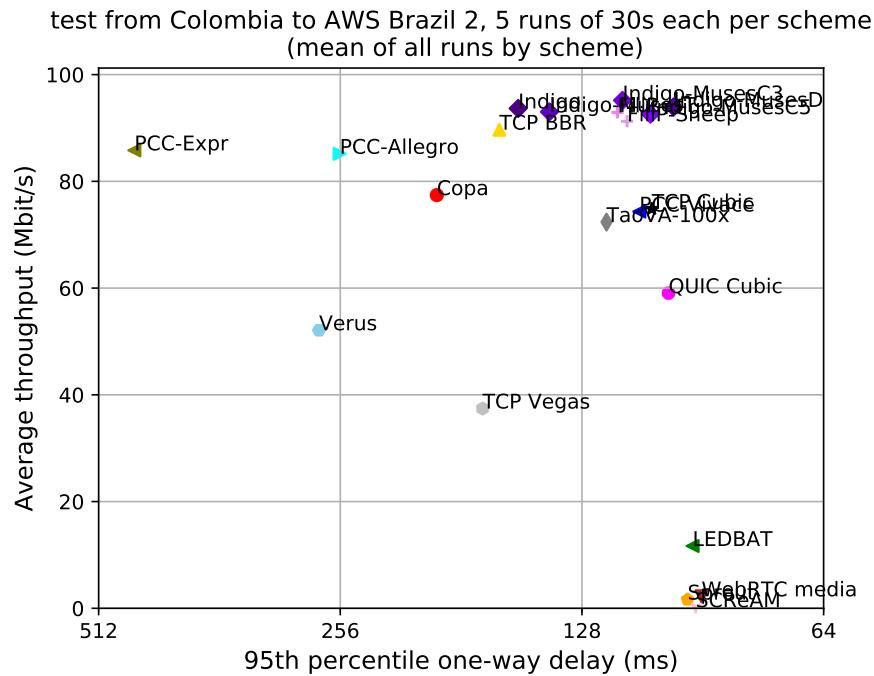
System info:

```
Linux 4.15.0-1039-aws
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 @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
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 @ 11c9498ecb1596b02ccd896791a02d03172af7ed
M helpers/_init_.pyc
M helpers/context.py
M helpers/utils.py
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
```



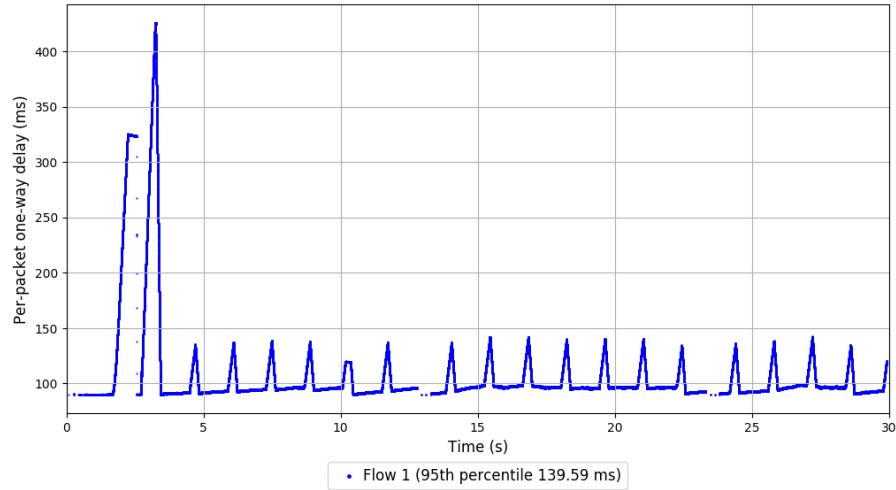
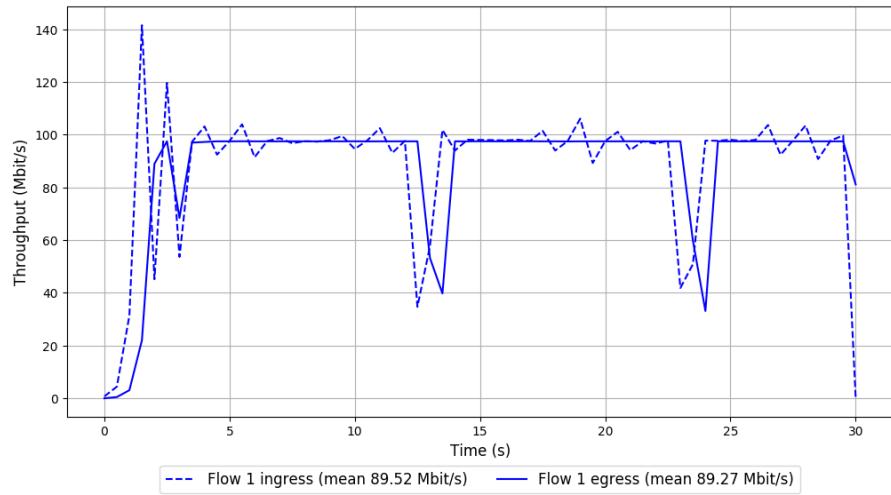
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	89.68	162.20	1.33
Copa	5	77.42	194.07	0.83
TCP Cubic	5	74.84	104.77	0.63
FillP	5	92.92	115.60	0.63
FillP-Sheep	5	91.26	112.46	0.65
Indigo	5	93.66	153.70	2.17
Indigo-MusesC3	5	95.17	113.95	6.01
Indigo-MusesC5	5	92.59	105.17	2.72
Indigo-MusesD	5	93.95	98.42	1.03
Indigo-MusesT	5	93.02	140.51	7.65
LEDBAT	5	11.67	93.20	1.17
Muses_DecisionTree	0	N/A	N/A	N/A
PCC-Allegro	5	85.16	256.43	0.75
PCC-Expr	5	85.81	462.14	1.43
QUIC Cubic	5	59.06	99.86	0.87
SCReAM	5	0.22	92.37	0.54
Sprout	5	1.64	94.56	0.61
TaoVA-100x	5	72.37	119.29	0.68
TCP Vegas	5	37.43	170.21	0.66
Verus	5	52.10	272.11	1.64
PCC-Vivace	5	74.34	108.60	0.74
WebRTC media	5	2.24	90.85	0.34

Run 1: Statistics of TCP BBR

```
Start at: 2019-06-27 13:30:49
End at: 2019-06-27 13:31:19
Local clock offset: -6.252 ms
Remote clock offset: 98.997 ms

# Below is generated by plot.py at 2019-06-27 15:23:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 139.595 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 139.595 ms
Loss rate: 0.86%
```

Run 1: Report of TCP BBR — Data Link

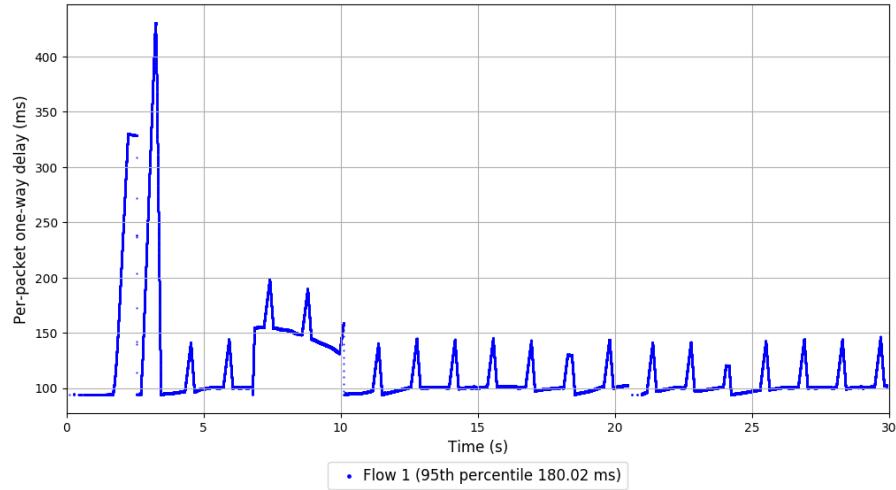
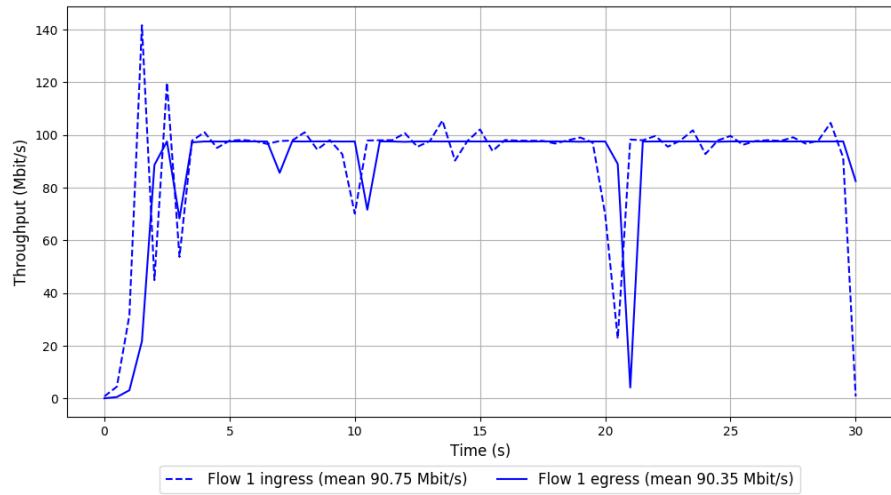


Run 2: Statistics of TCP BBR

```
Start at: 2019-06-27 13:56:56
End at: 2019-06-27 13:57:26
Local clock offset: -6.533 ms
Remote clock offset: 98.339 ms

# Below is generated by plot.py at 2019-06-27 15:23:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.35 Mbit/s
95th percentile per-packet one-way delay: 180.022 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 90.35 Mbit/s
95th percentile per-packet one-way delay: 180.022 ms
Loss rate: 1.01%
```

Run 2: Report of TCP BBR — Data Link

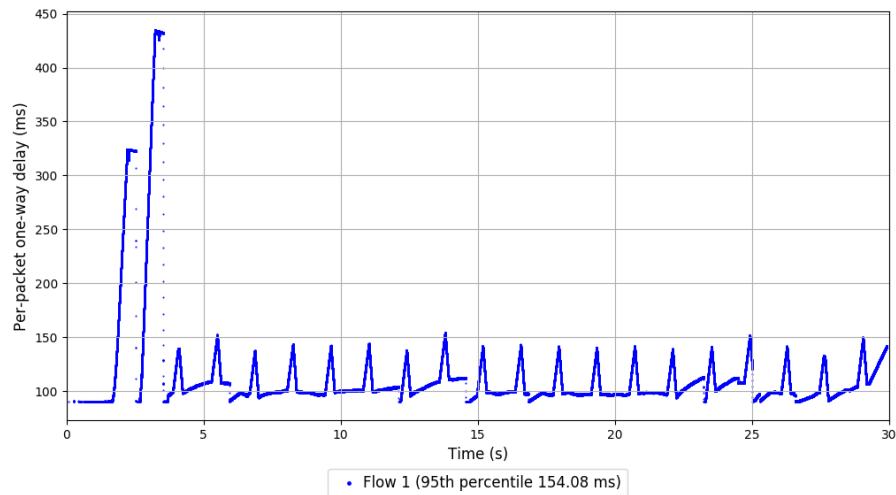
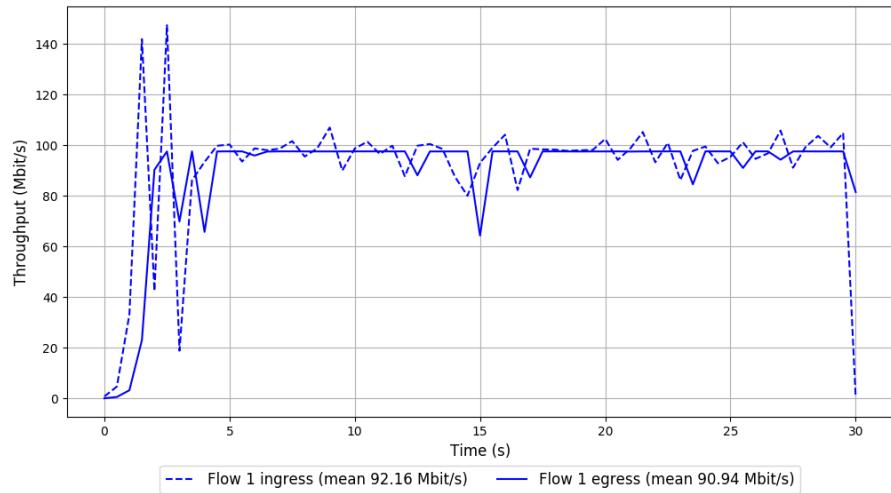


Run 3: Statistics of TCP BBR

```
Start at: 2019-06-27 14:23:02
End at: 2019-06-27 14:23:32
Local clock offset: -6.026 ms
Remote clock offset: 105.932 ms

# Below is generated by plot.py at 2019-06-27 15:23:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.94 Mbit/s
95th percentile per-packet one-way delay: 154.076 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 90.94 Mbit/s
95th percentile per-packet one-way delay: 154.076 ms
Loss rate: 1.90%
```

Run 3: Report of TCP BBR — Data Link

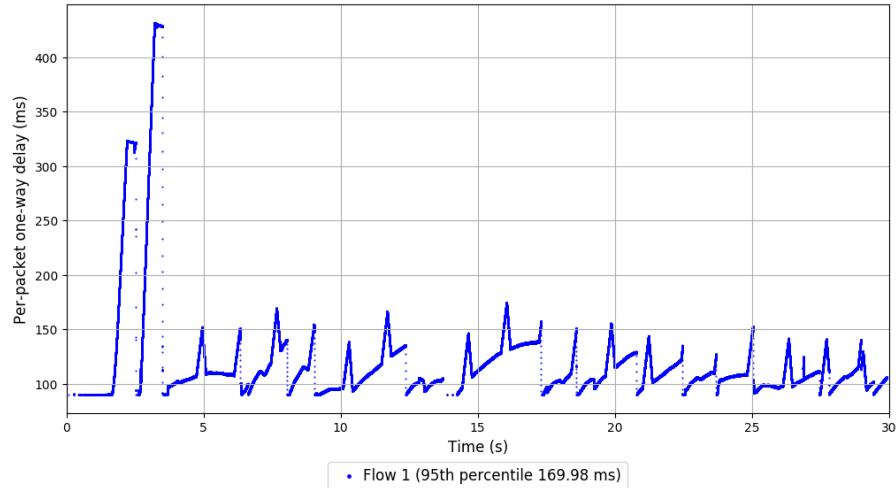
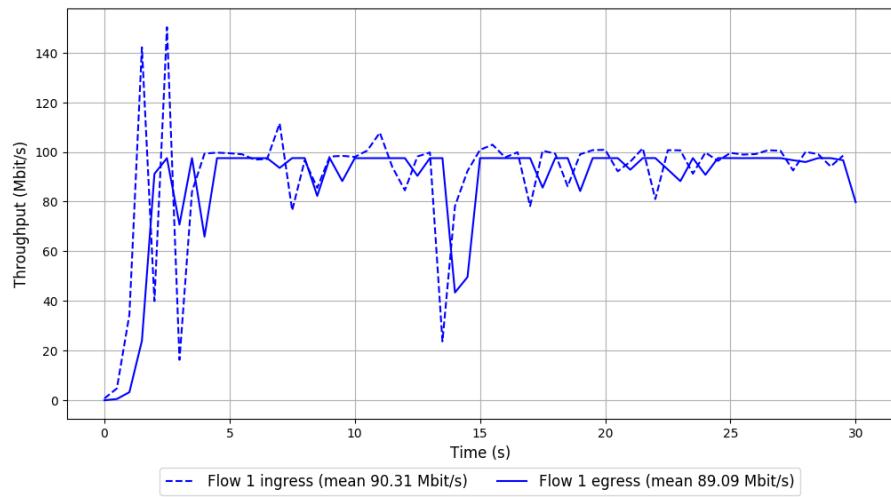


Run 4: Statistics of TCP BBR

```
Start at: 2019-06-27 14:49:08
End at: 2019-06-27 14:49:38
Local clock offset: -5.616 ms
Remote clock offset: 109.304 ms

# Below is generated by plot.py at 2019-06-27 15:23:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.09 Mbit/s
95th percentile per-packet one-way delay: 169.982 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 89.09 Mbit/s
95th percentile per-packet one-way delay: 169.982 ms
Loss rate: 1.93%
```

Run 4: Report of TCP BBR — Data Link

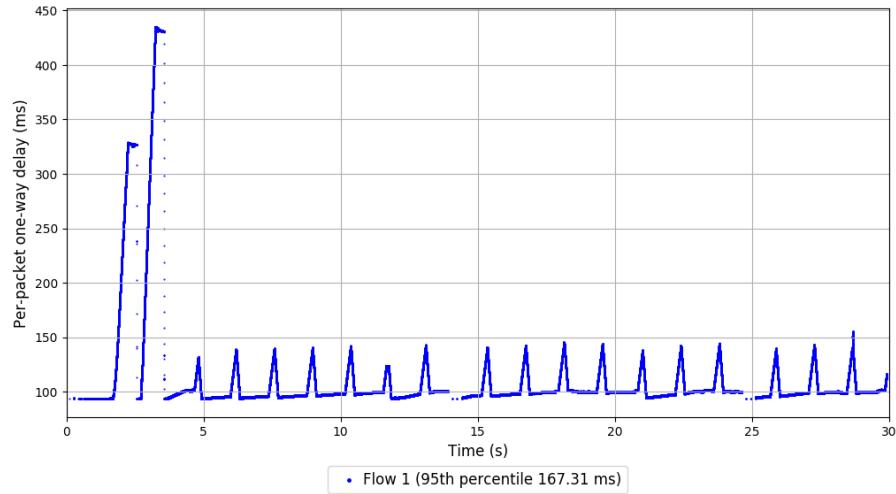
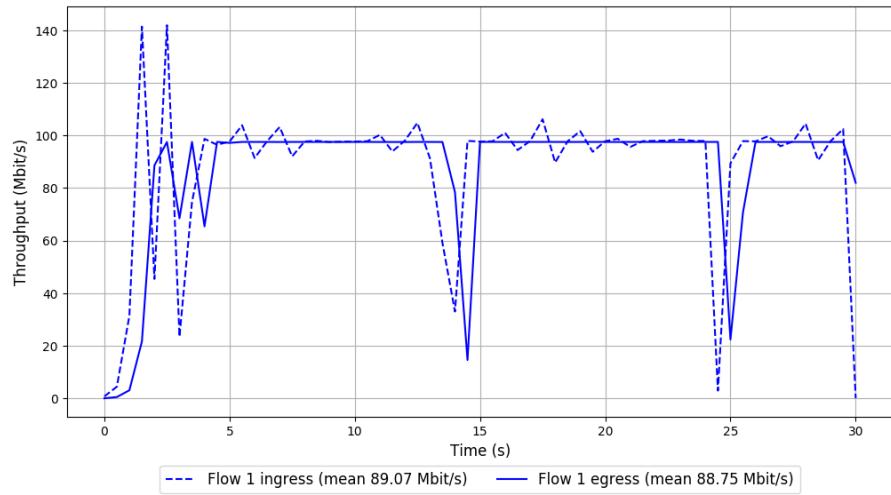


Run 5: Statistics of TCP BBR

```
Start at: 2019-06-27 15:15:14
End at: 2019-06-27 15:15:44
Local clock offset: -6.12 ms
Remote clock offset: 109.195 ms

# Below is generated by plot.py at 2019-06-27 15:23:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 167.309 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 167.309 ms
Loss rate: 0.94%
```

Run 5: Report of TCP BBR — Data Link

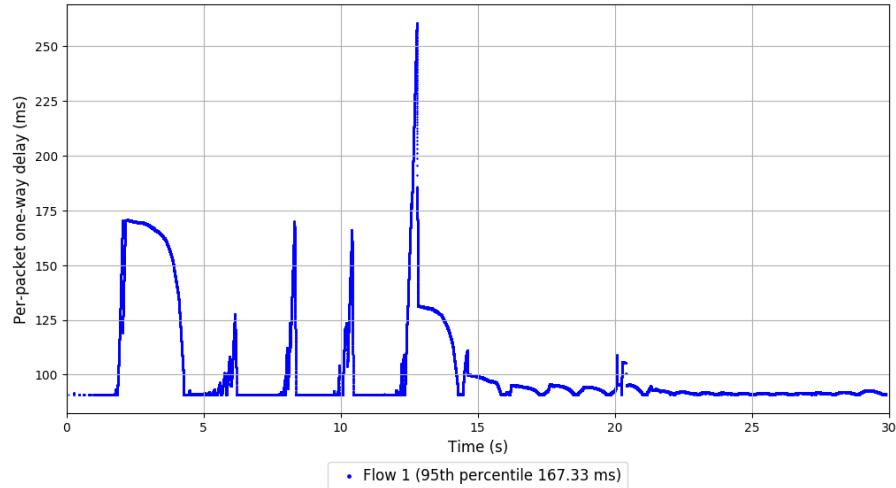
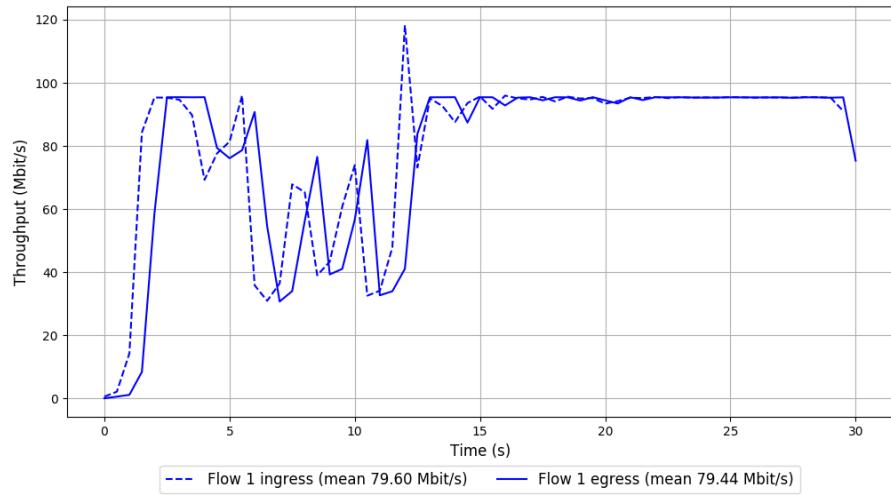


Run 1: Statistics of Copa

```
Start at: 2019-06-27 13:25:56
End at: 2019-06-27 13:26:26
Local clock offset: -6.536 ms
Remote clock offset: 96.767 ms

# Below is generated by plot.py at 2019-06-27 15:24:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.44 Mbit/s
95th percentile per-packet one-way delay: 167.332 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 79.44 Mbit/s
95th percentile per-packet one-way delay: 167.332 ms
Loss rate: 0.78%
```

Run 1: Report of Copa — Data Link

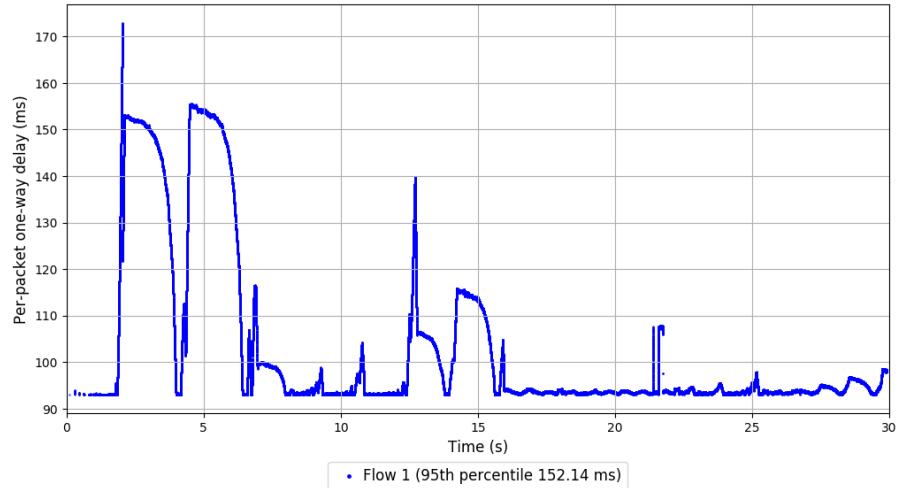
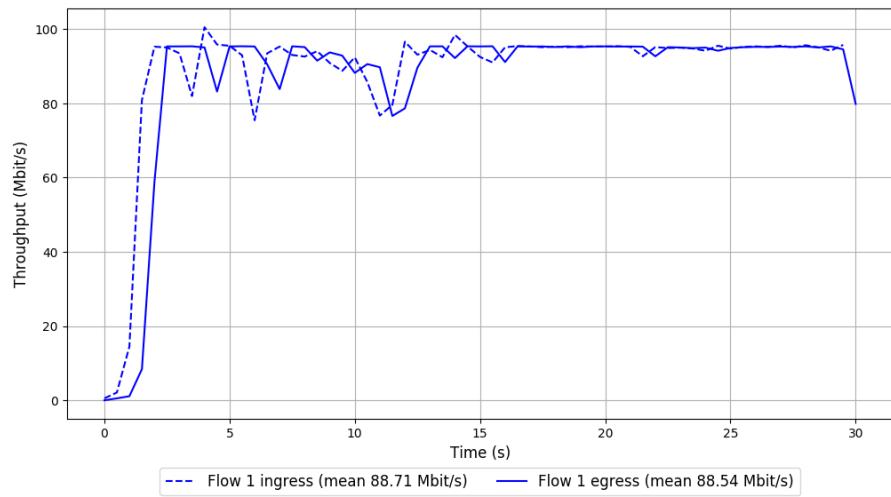


Run 2: Statistics of Copa

```
Start at: 2019-06-27 13:52:02
End at: 2019-06-27 13:52:32
Local clock offset: -7.3 ms
Remote clock offset: 97.698 ms

# Below is generated by plot.py at 2019-06-27 15:24:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.54 Mbit/s
95th percentile per-packet one-way delay: 152.137 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 88.54 Mbit/s
95th percentile per-packet one-way delay: 152.137 ms
Loss rate: 0.76%
```

Run 2: Report of Copa — Data Link

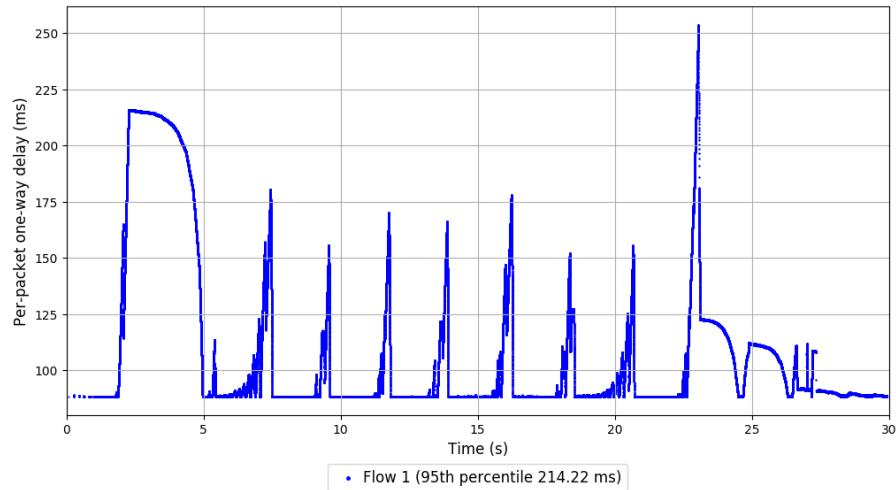
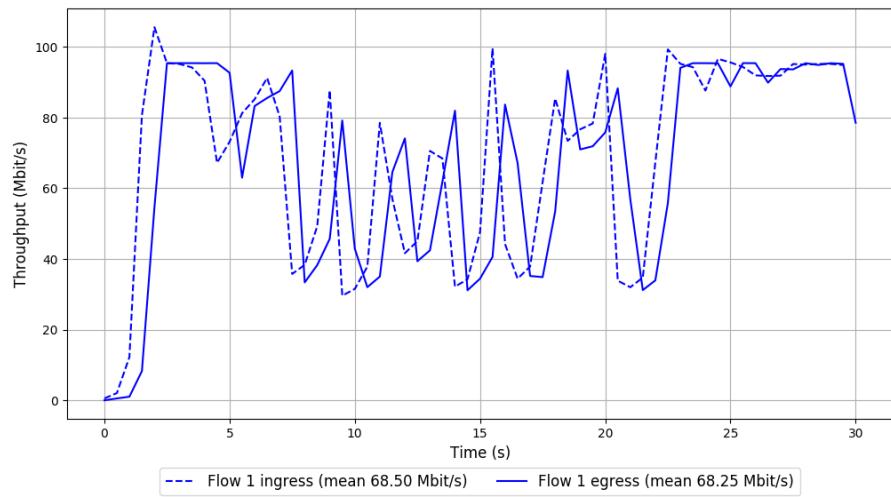


Run 3: Statistics of Copa

```
Start at: 2019-06-27 14:18:09
End at: 2019-06-27 14:18:39
Local clock offset: -7.1 ms
Remote clock offset: 106.376 ms

# Below is generated by plot.py at 2019-06-27 15:24:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.25 Mbit/s
95th percentile per-packet one-way delay: 214.223 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 68.25 Mbit/s
95th percentile per-packet one-way delay: 214.223 ms
Loss rate: 0.94%
```

Run 3: Report of Copa — Data Link

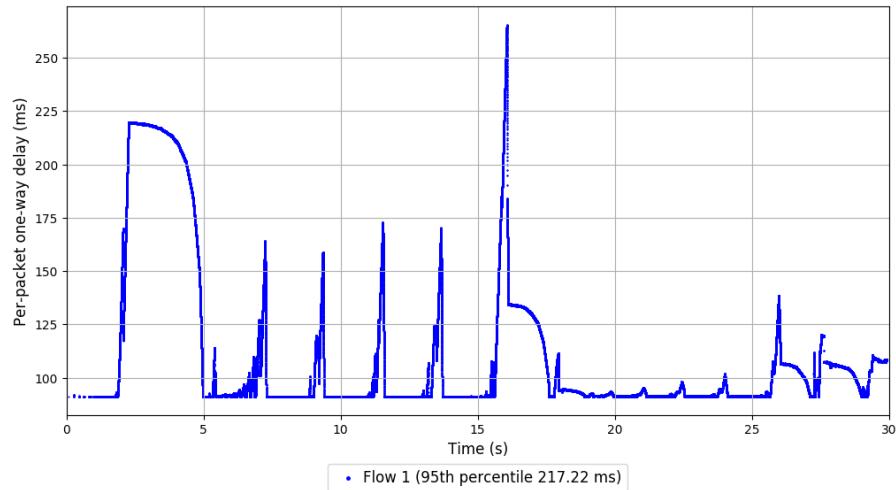
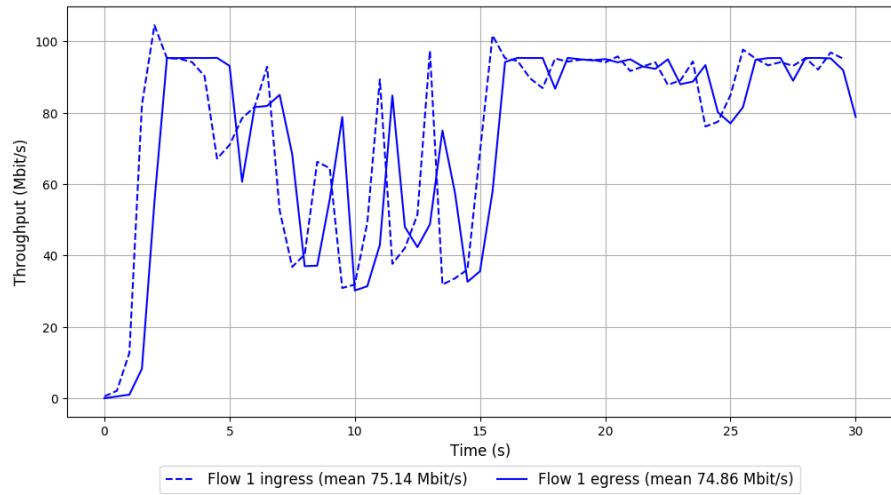


Run 4: Statistics of Copa

```
Start at: 2019-06-27 14:44:16
End at: 2019-06-27 14:44:46
Local clock offset: -5.61 ms
Remote clock offset: 107.765 ms

# Below is generated by plot.py at 2019-06-27 15:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.86 Mbit/s
95th percentile per-packet one-way delay: 217.225 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 74.86 Mbit/s
95th percentile per-packet one-way delay: 217.225 ms
Loss rate: 0.96%
```

Run 4: Report of Copa — Data Link

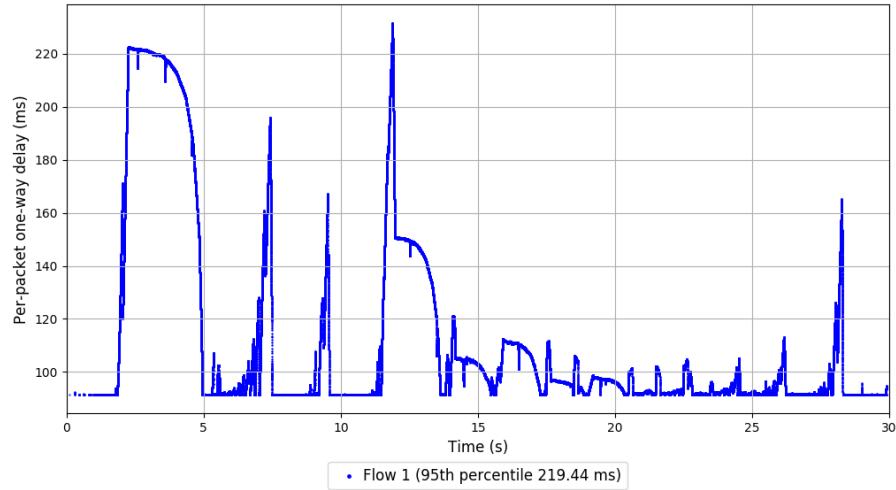
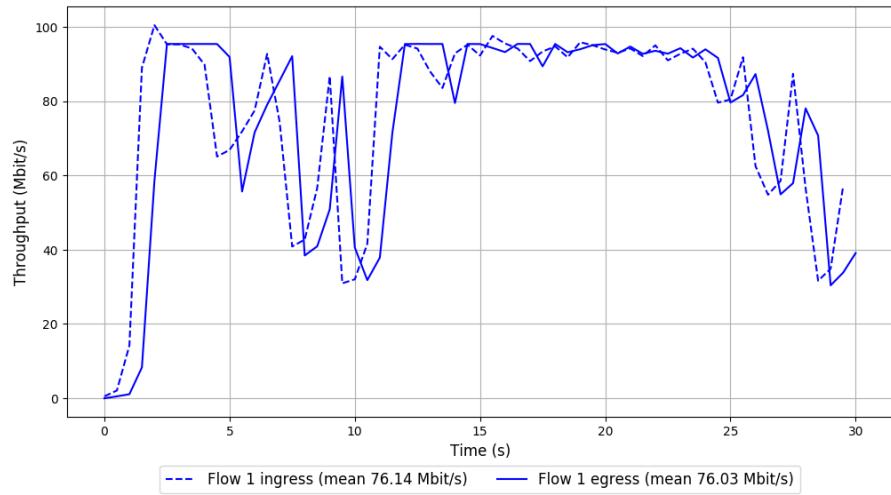


Run 5: Statistics of Copa

```
Start at: 2019-06-27 15:10:21
End at: 2019-06-27 15:10:51
Local clock offset: -6.032 ms
Remote clock offset: 111.228 ms

# Below is generated by plot.py at 2019-06-27 15:25:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.03 Mbit/s
95th percentile per-packet one-way delay: 219.445 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 76.03 Mbit/s
95th percentile per-packet one-way delay: 219.445 ms
Loss rate: 0.72%
```

Run 5: Report of Copa — Data Link

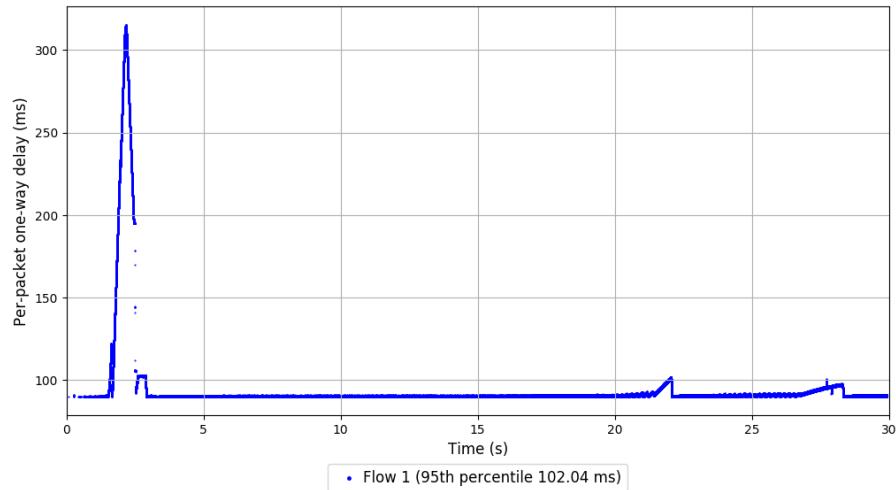
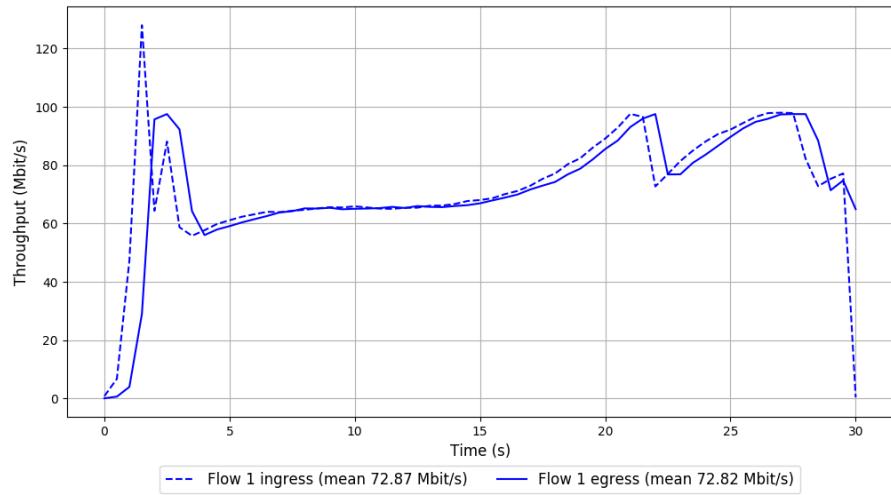


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-06-27 13:21:13
End at: 2019-06-27 13:21:43
Local clock offset: -5.417 ms
Remote clock offset: 97.662 ms

# Below is generated by plot.py at 2019-06-27 15:25:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.82 Mbit/s
95th percentile per-packet one-way delay: 102.041 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.82 Mbit/s
95th percentile per-packet one-way delay: 102.041 ms
Loss rate: 0.64%
```

Run 1: Report of TCP Cubic — Data Link

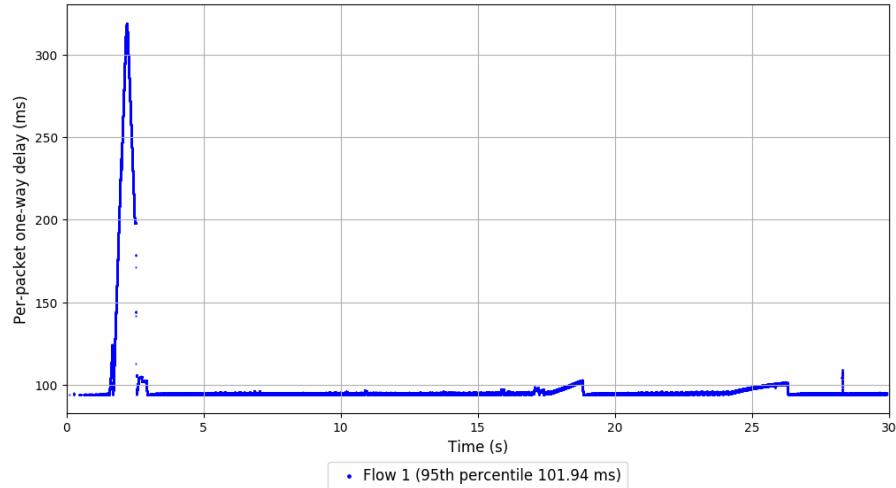
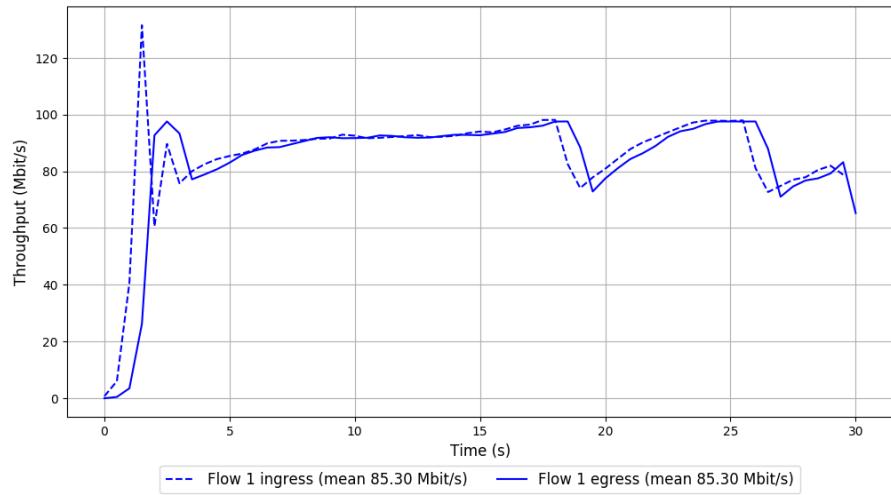


Run 2: Statistics of TCP Cubic

```
Start at: 2019-06-27 13:47:19
End at: 2019-06-27 13:47:49
Local clock offset: -6.627 ms
Remote clock offset: 96.856 ms

# Below is generated by plot.py at 2019-06-27 15:25:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.30 Mbit/s
95th percentile per-packet one-way delay: 101.936 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 85.30 Mbit/s
95th percentile per-packet one-way delay: 101.936 ms
Loss rate: 0.58%
```

Run 2: Report of TCP Cubic — Data Link

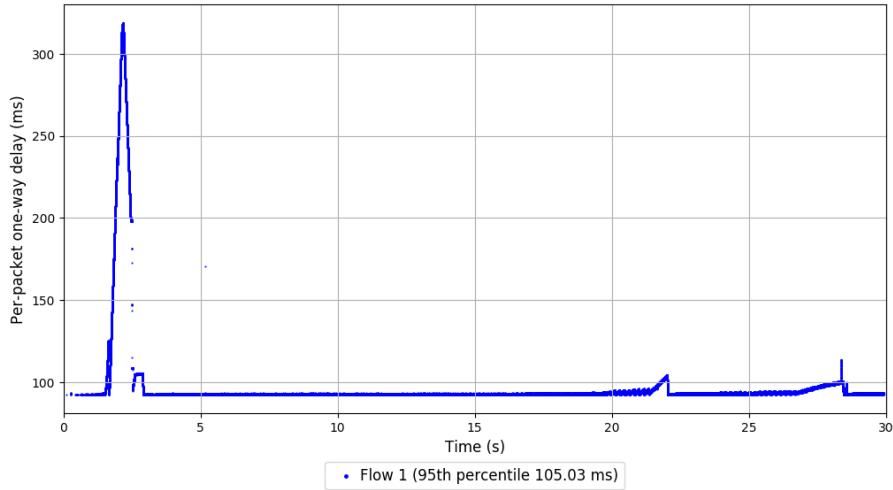
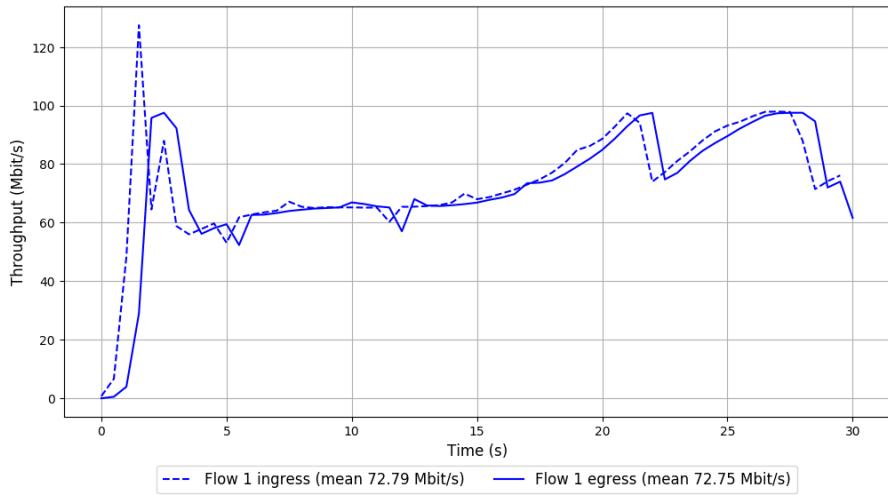


Run 3: Statistics of TCP Cubic

```
Start at: 2019-06-27 14:13:26
End at: 2019-06-27 14:13:56
Local clock offset: -7.357 ms
Remote clock offset: 100.587 ms

# Below is generated by plot.py at 2019-06-27 15:25:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.75 Mbit/s
95th percentile per-packet one-way delay: 105.031 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 72.75 Mbit/s
95th percentile per-packet one-way delay: 105.031 ms
Loss rate: 0.63%
```

Run 3: Report of TCP Cubic — Data Link

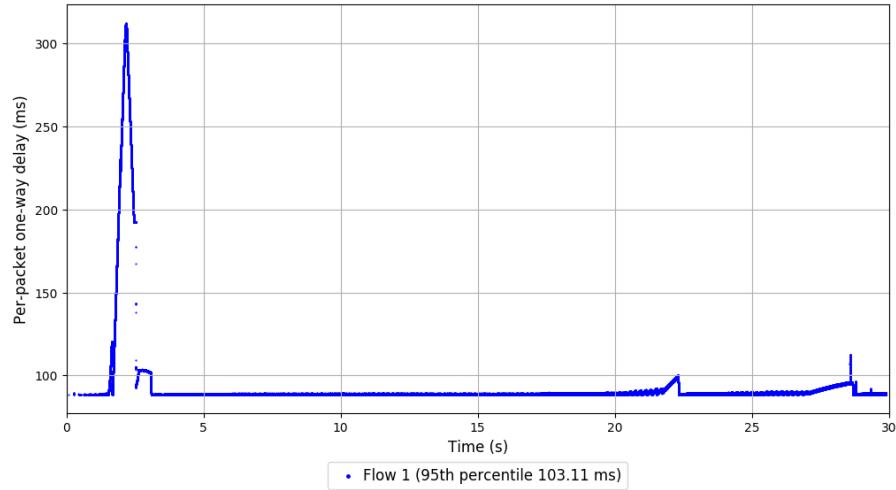
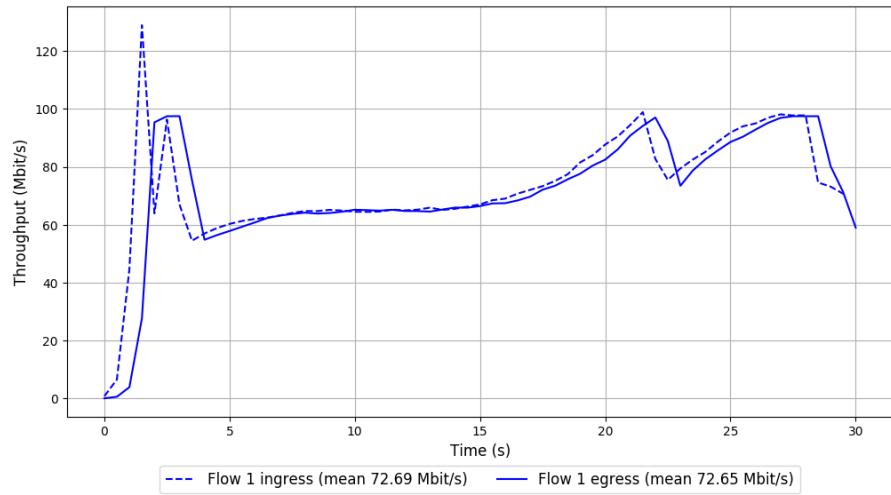


Run 4: Statistics of TCP Cubic

```
Start at: 2019-06-27 14:39:33
End at: 2019-06-27 14:40:03
Local clock offset: -5.453 ms
Remote clock offset: 109.221 ms

# Below is generated by plot.py at 2019-06-27 15:25:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.65 Mbit/s
95th percentile per-packet one-way delay: 103.113 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.65 Mbit/s
95th percentile per-packet one-way delay: 103.113 ms
Loss rate: 0.64%
```

Run 4: Report of TCP Cubic — Data Link

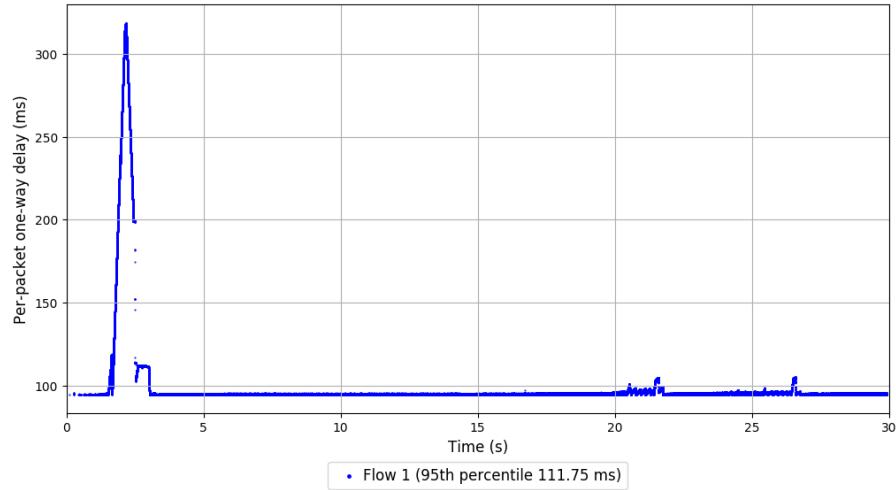
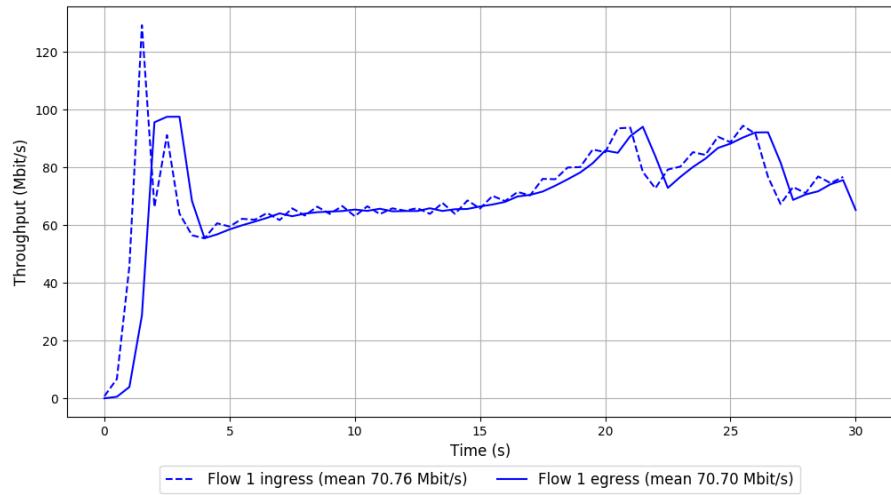


Run 5: Statistics of TCP Cubic

```
Start at: 2019-06-27 15:05:38
End at: 2019-06-27 15:06:08
Local clock offset: -5.977 ms
Remote clock offset: 107.499 ms

# Below is generated by plot.py at 2019-06-27 15:25:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.70 Mbit/s
95th percentile per-packet one-way delay: 111.748 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 70.70 Mbit/s
95th percentile per-packet one-way delay: 111.748 ms
Loss rate: 0.66%
```

Run 5: Report of TCP Cubic — Data Link

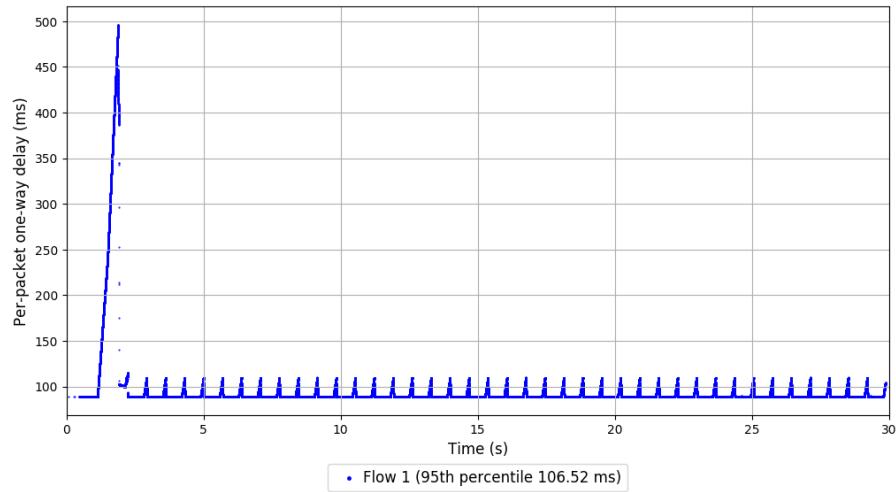
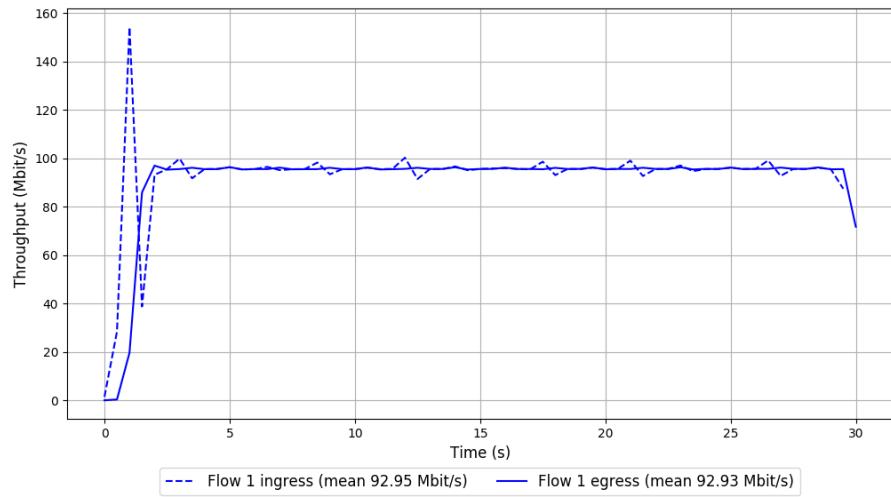


```
Run 1: Statistics of FillP
```

```
Start at: 2019-06-27 13:35:33
End at: 2019-06-27 13:36:03
Local clock offset: -6.375 ms
Remote clock offset: 100.579 ms

# Below is generated by plot.py at 2019-06-27 15:25:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 106.520 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 106.520 ms
Loss rate: 0.60%
```

Run 1: Report of FillP — Data Link

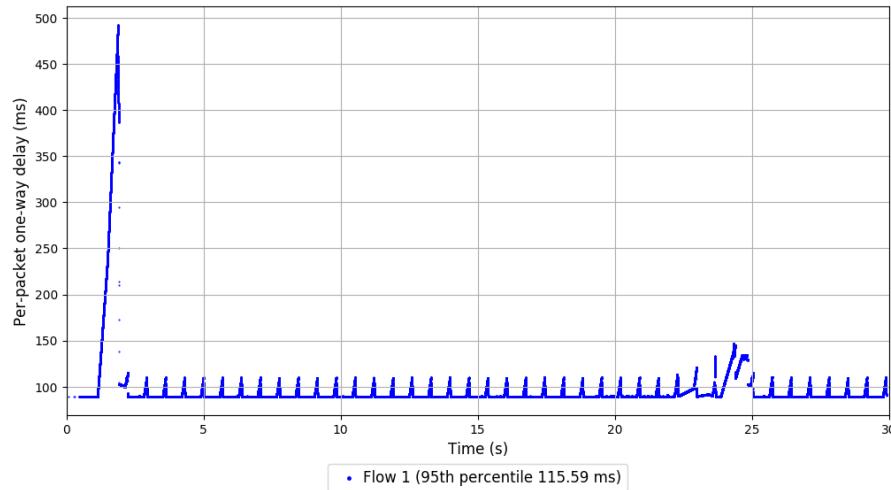
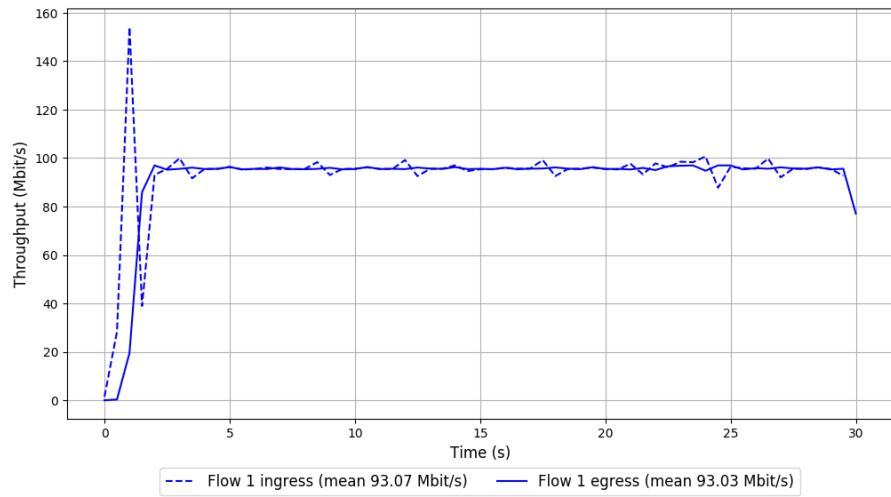


Run 2: Statistics of FillP

```
Start at: 2019-06-27 14:01:40
End at: 2019-06-27 14:02:10
Local clock offset: -7.06 ms
Remote clock offset: 103.046 ms

# Below is generated by plot.py at 2019-06-27 15:25:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 115.590 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 115.590 ms
Loss rate: 0.62%
```

Run 2: Report of FillP — Data Link

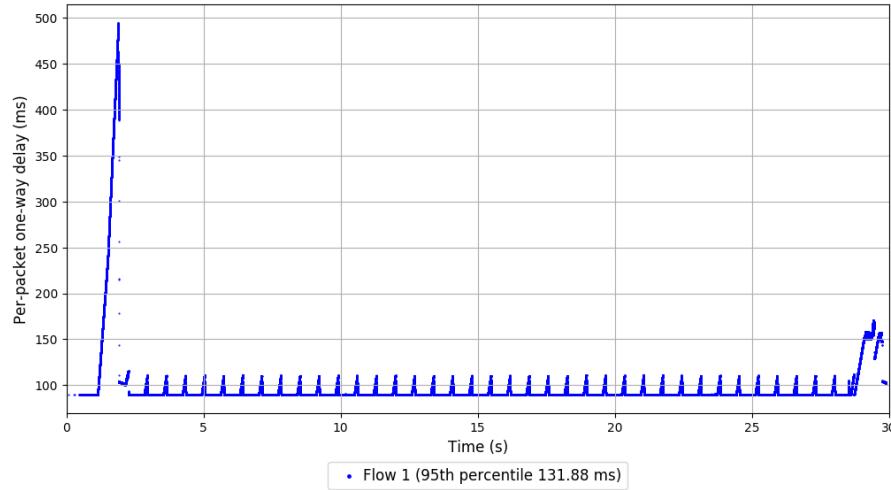
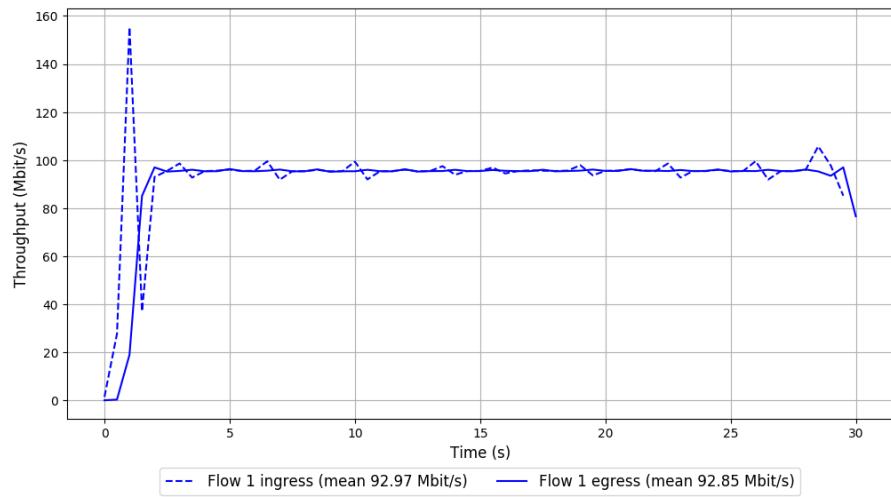


Run 3: Statistics of FillP

```
Start at: 2019-06-27 14:27:46
End at: 2019-06-27 14:28:16
Local clock offset: -5.808 ms
Remote clock offset: 106.799 ms

# Below is generated by plot.py at 2019-06-27 15:25:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 131.885 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 131.885 ms
Loss rate: 0.71%
```

Run 3: Report of FillP — Data Link

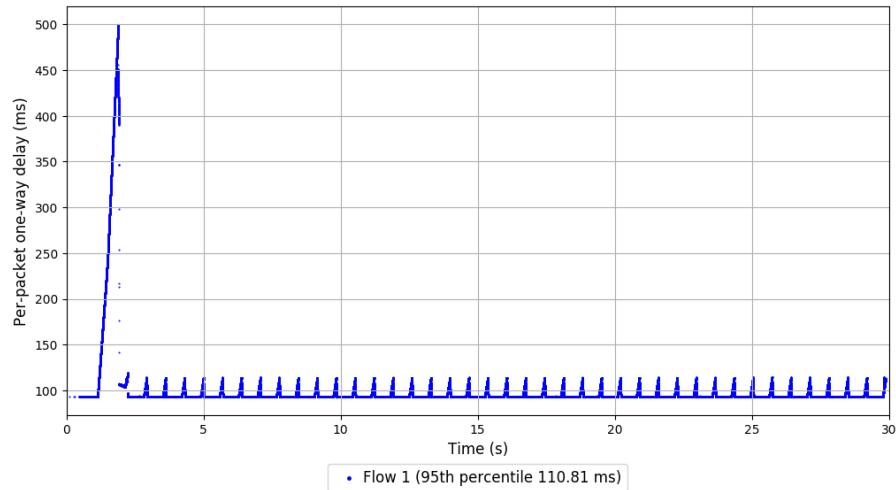
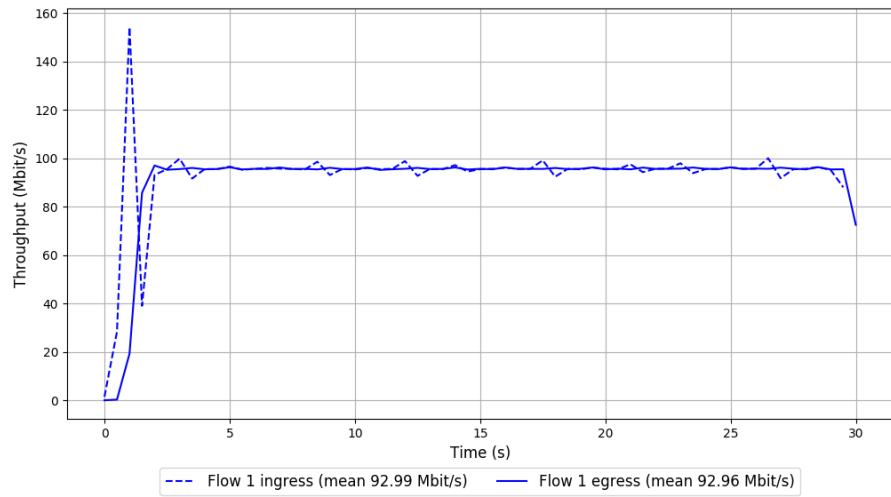


Run 4: Statistics of FillP

```
Start at: 2019-06-27 14:53:52
End at: 2019-06-27 14:54:22
Local clock offset: -6.72 ms
Remote clock offset: 106.211 ms

# Below is generated by plot.py at 2019-06-27 15:25:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 110.807 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 110.807 ms
Loss rate: 0.61%
```

Run 4: Report of FillP — Data Link

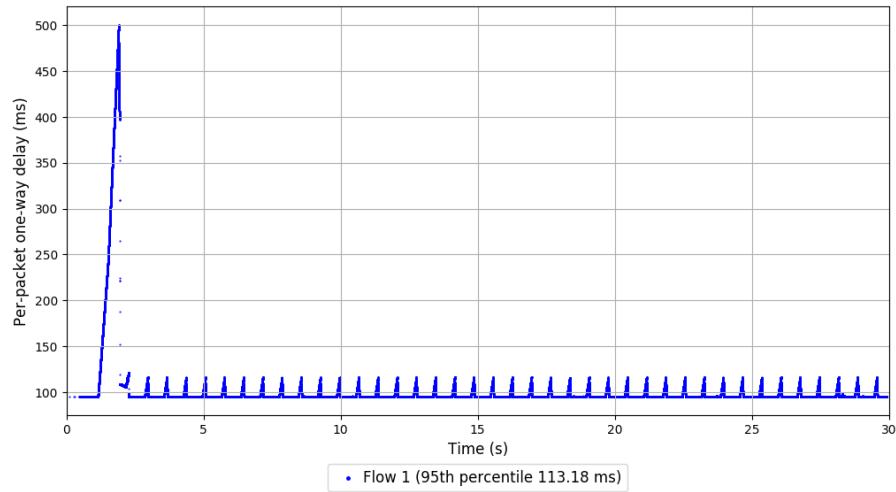
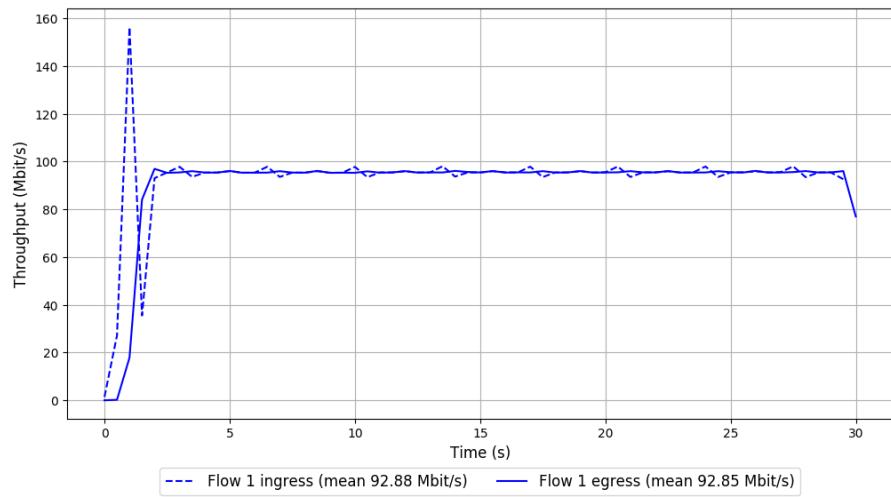


Run 5: Statistics of FillP

```
Start at: 2019-06-27 15:19:58
End at: 2019-06-27 15:20:28
Local clock offset: -5.955 ms
Remote clock offset: 108.64 ms

# Below is generated by plot.py at 2019-06-27 15:26:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 113.182 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 113.182 ms
Loss rate: 0.61%
```

Run 5: Report of FillP — Data Link

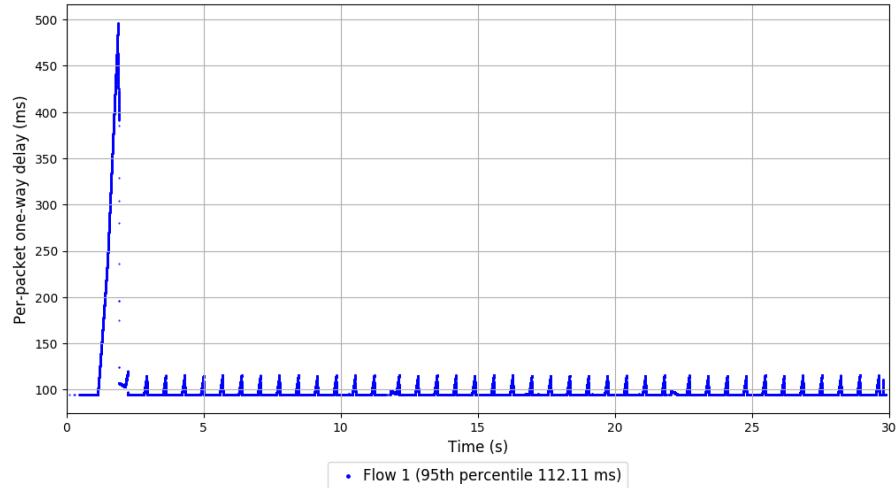
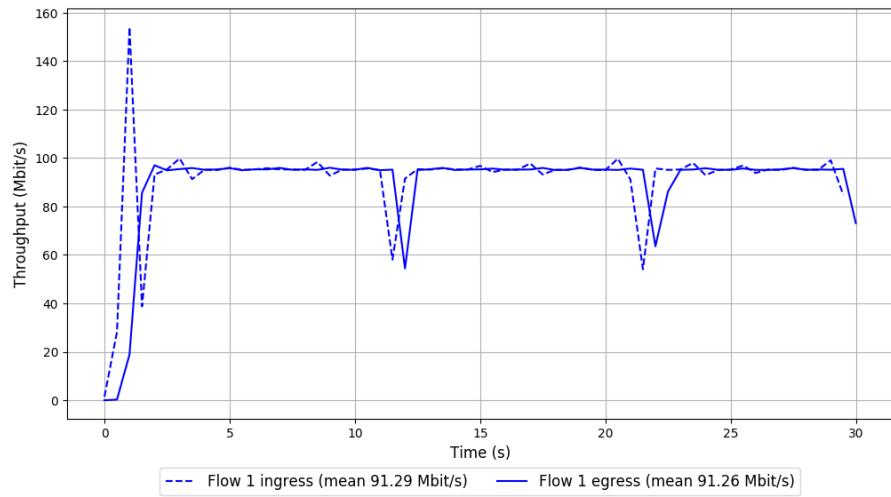


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-06-27 13:34:22
End at: 2019-06-27 13:34:52
Local clock offset: -6.904 ms
Remote clock offset: 94.28 ms

# Below is generated by plot.py at 2019-06-27 15:26:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 112.113 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 112.113 ms
Loss rate: 0.62%
```

Run 1: Report of FillP-Sheep — Data Link

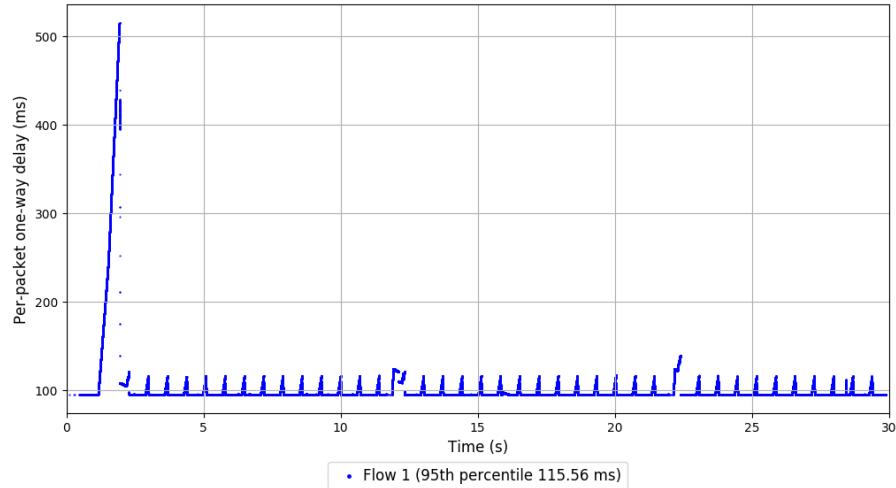
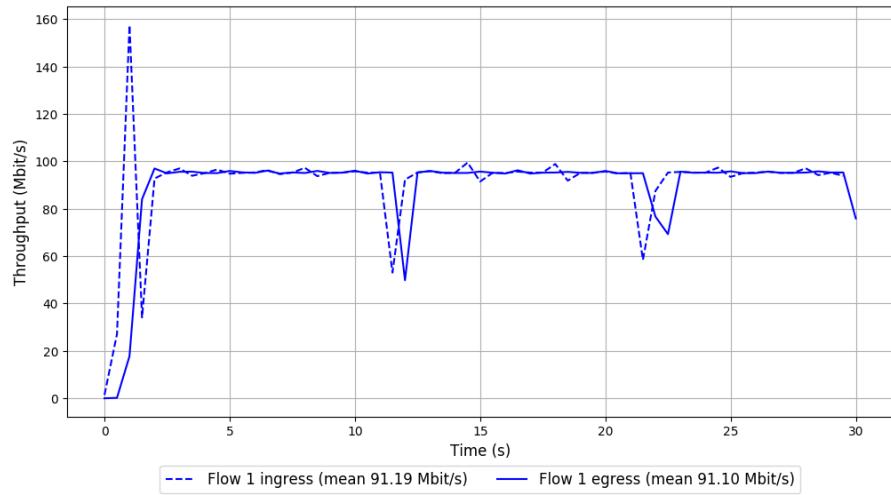


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-06-27 14:00:29
End at: 2019-06-27 14:00:59
Local clock offset: -6.32 ms
Remote clock offset: 97.728 ms

# Below is generated by plot.py at 2019-06-27 15:26:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 115.564 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 115.564 ms
Loss rate: 0.68%
```

Run 2: Report of FillP-Sheep — Data Link

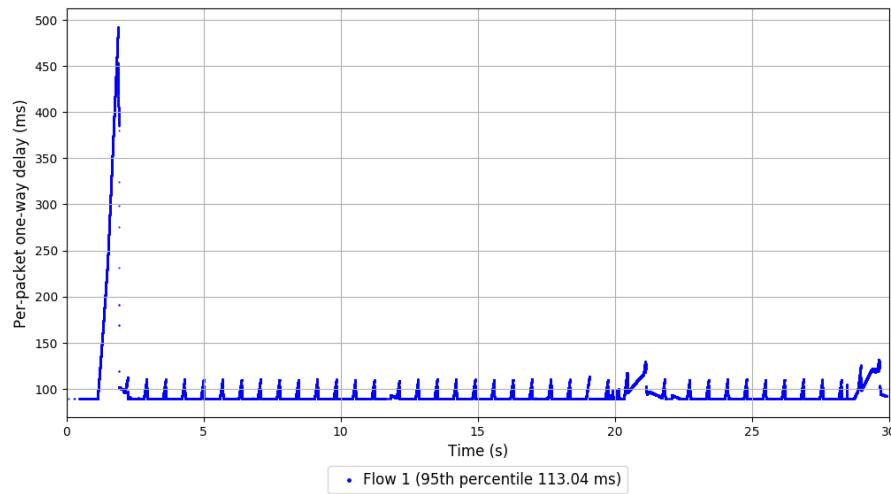
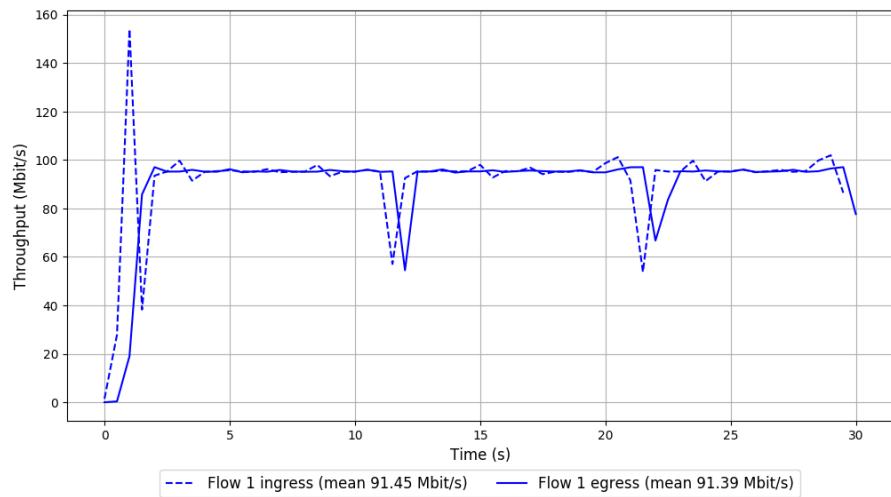


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-06-27 14:26:35
End at: 2019-06-27 14:27:05
Local clock offset: -5.787 ms
Remote clock offset: 107.541 ms

# Below is generated by plot.py at 2019-06-27 15:26:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 113.040 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 113.040 ms
Loss rate: 0.64%
```

Run 3: Report of FillP-Sheep — Data Link

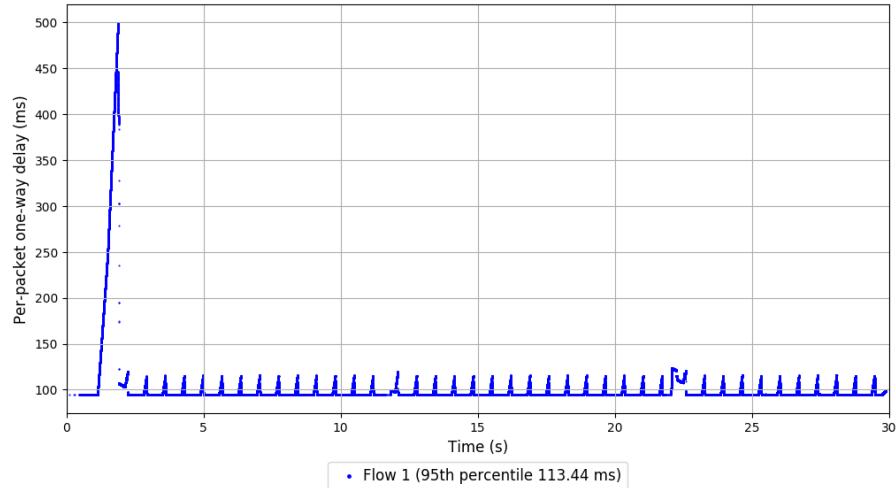
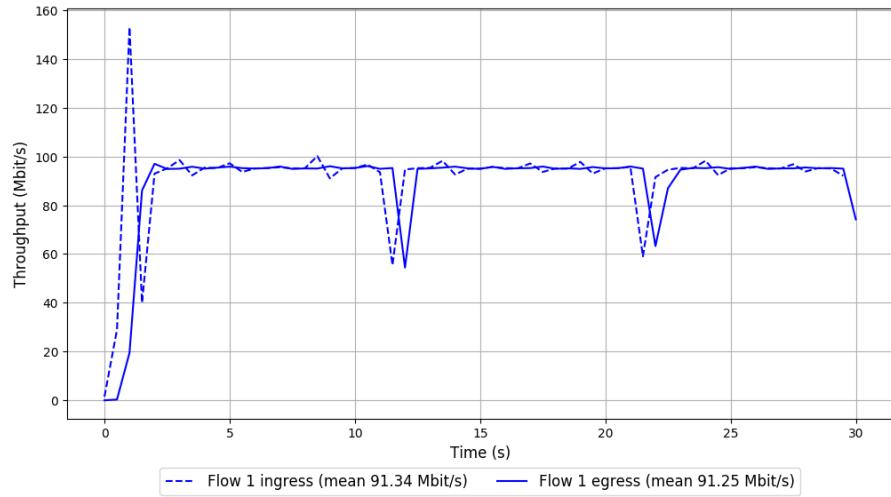


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-06-27 14:52:41
End at: 2019-06-27 14:53:11
Local clock offset: -5.699 ms
Remote clock offset: 104.97 ms

# Below is generated by plot.py at 2019-06-27 15:26:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 113.445 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 113.445 ms
Loss rate: 0.67%
```

Run 4: Report of FillP-Sheep — Data Link

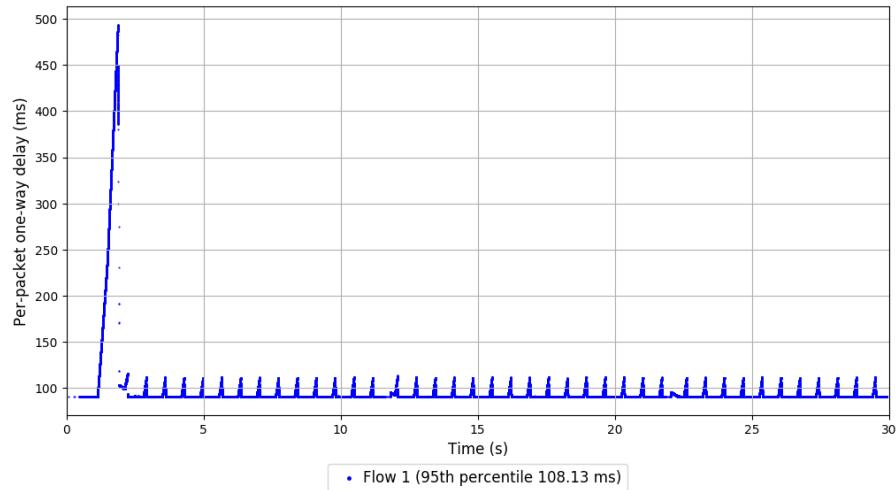
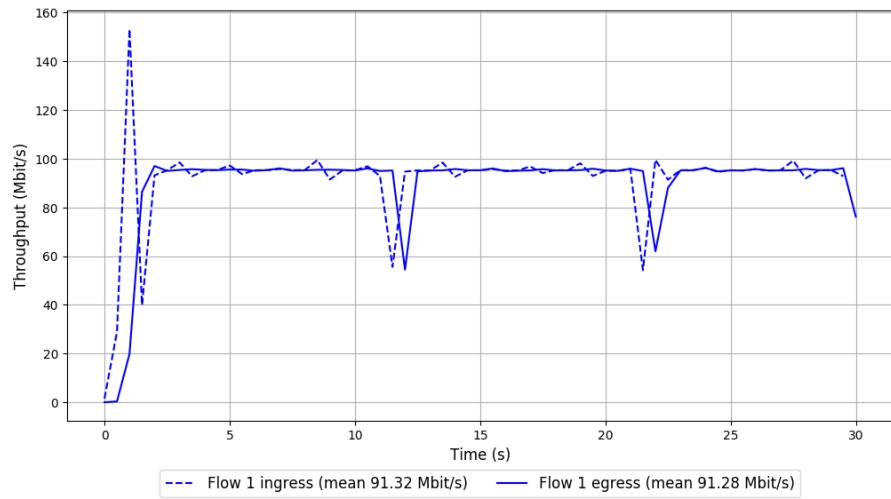


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-06-27 15:18:47
End at: 2019-06-27 15:19:17
Local clock offset: -6.095 ms
Remote clock offset: 112.503 ms

# Below is generated by plot.py at 2019-06-27 15:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 108.130 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 108.130 ms
Loss rate: 0.62%
```

Run 5: Report of FillP-Sheep — Data Link

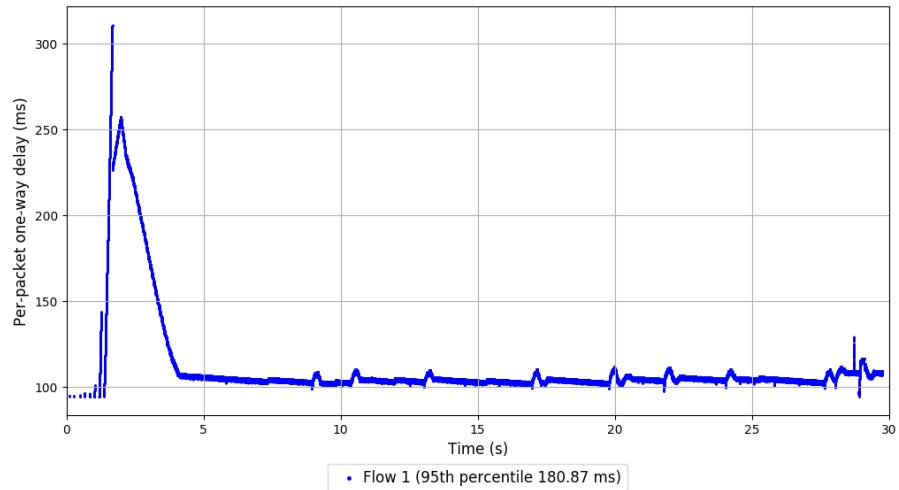
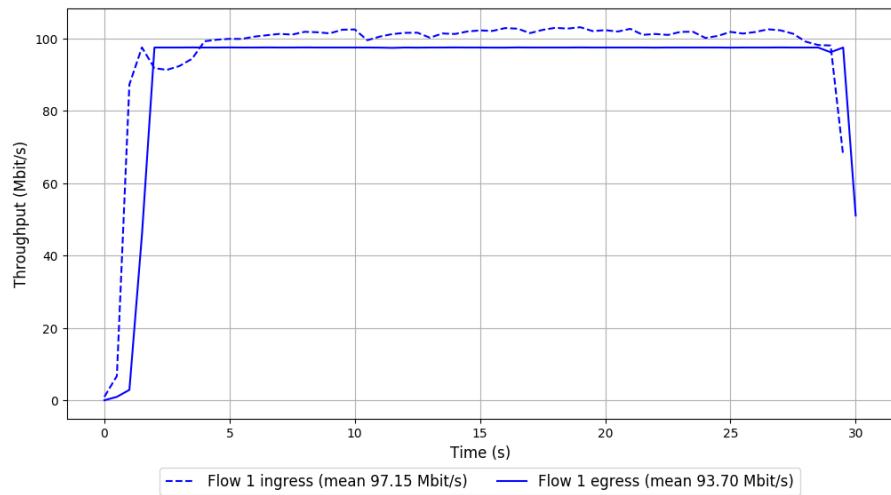


Run 1: Statistics of Indigo

```
Start at: 2019-06-27 13:15:19
End at: 2019-06-27 13:15:49
Local clock offset: -5.134 ms
Remote clock offset: 92.789 ms

# Below is generated by plot.py at 2019-06-27 15:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 180.870 ms
Loss rate: 4.11%
-- Flow 1:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 180.870 ms
Loss rate: 4.11%
```

Run 1: Report of Indigo — Data Link

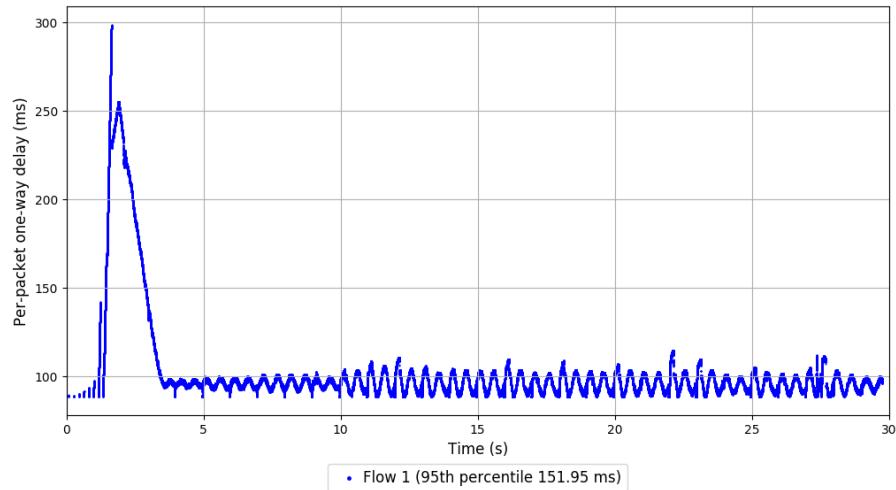
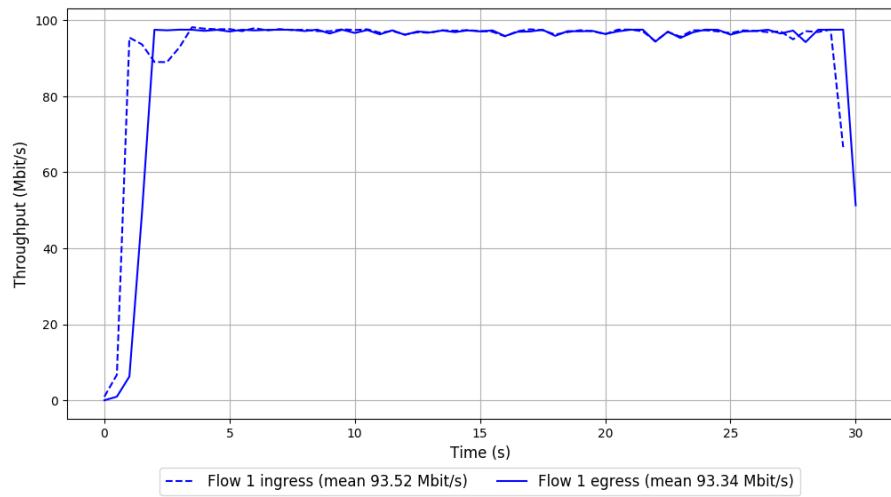


Run 2: Statistics of Indigo

```
Start at: 2019-06-27 13:41:25
End at: 2019-06-27 13:41:55
Local clock offset: -6.278 ms
Remote clock offset: 101.181 ms

# Below is generated by plot.py at 2019-06-27 15:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 151.953 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 151.953 ms
Loss rate: 0.77%
```

Run 2: Report of Indigo — Data Link

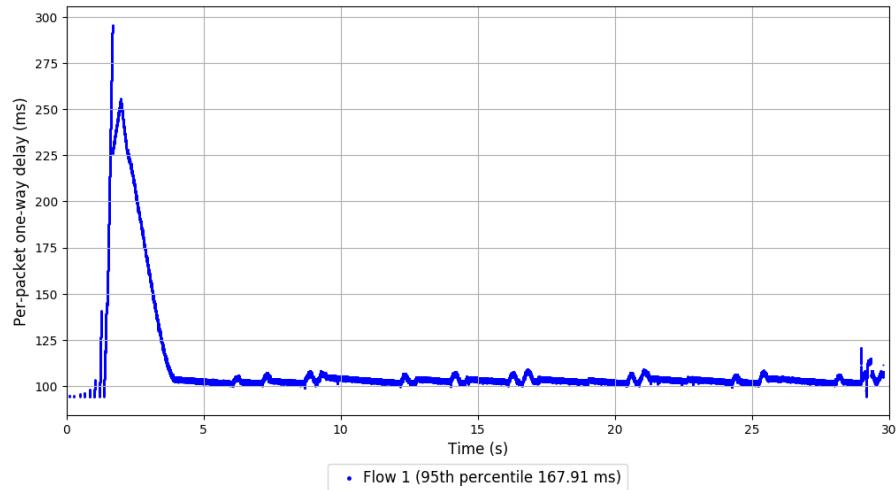
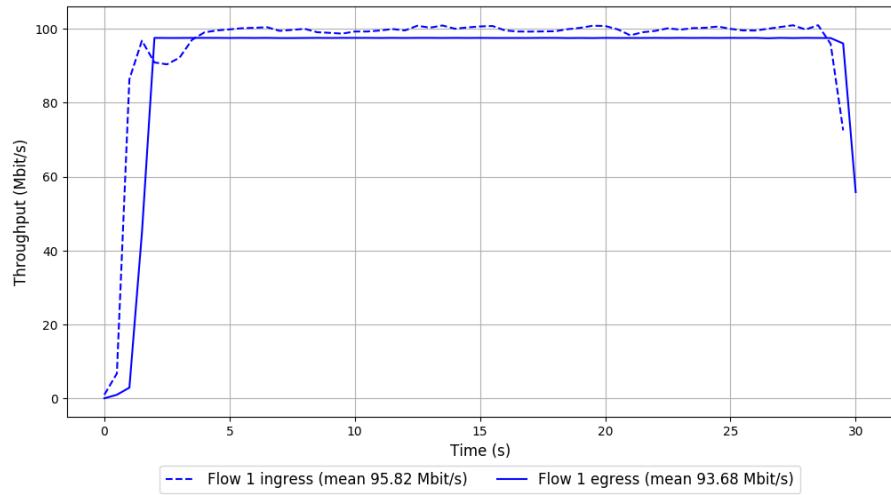


Run 3: Statistics of Indigo

```
Start at: 2019-06-27 14:07:32
End at: 2019-06-27 14:08:02
Local clock offset: -6.327 ms
Remote clock offset: 99.859 ms

# Below is generated by plot.py at 2019-06-27 15:27:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 167.907 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 167.907 ms
Loss rate: 2.78%
```

Run 3: Report of Indigo — Data Link

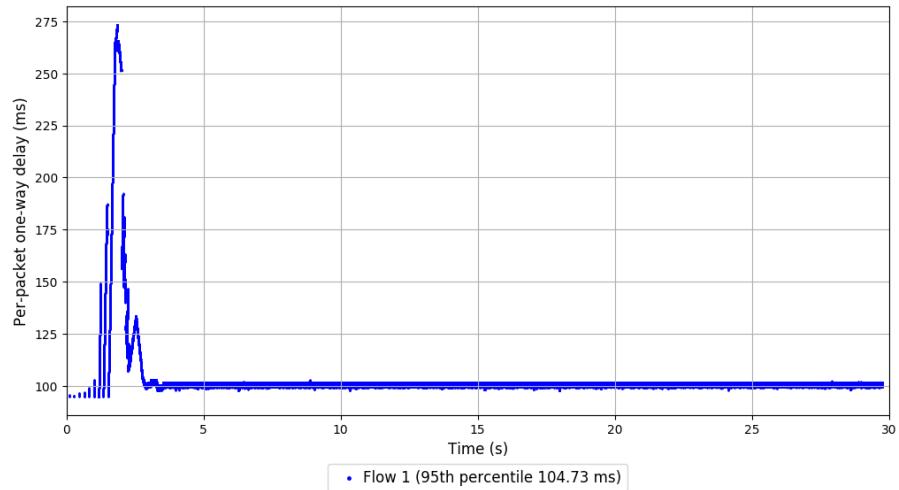
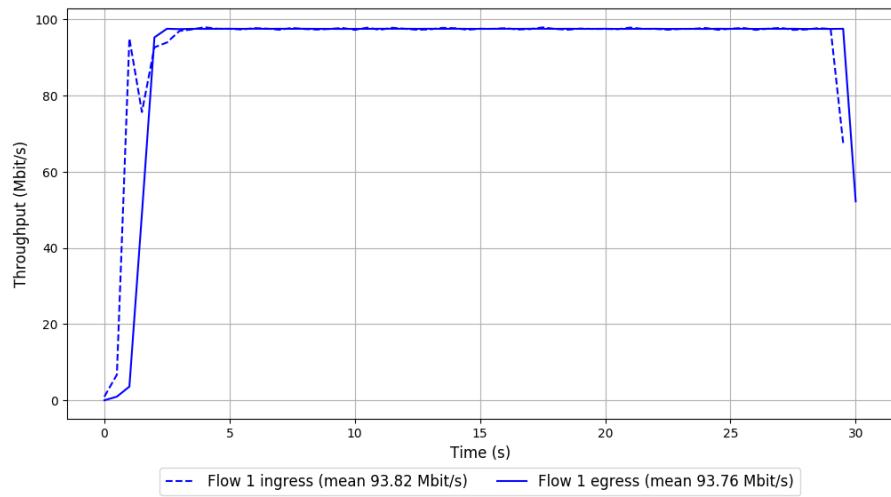


Run 4: Statistics of Indigo

```
Start at: 2019-06-27 14:33:38
End at: 2019-06-27 14:34:08
Local clock offset: -5.808 ms
Remote clock offset: 102.164 ms

# Below is generated by plot.py at 2019-06-27 15:27:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 104.731 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 104.731 ms
Loss rate: 0.64%
```

Run 4: Report of Indigo — Data Link

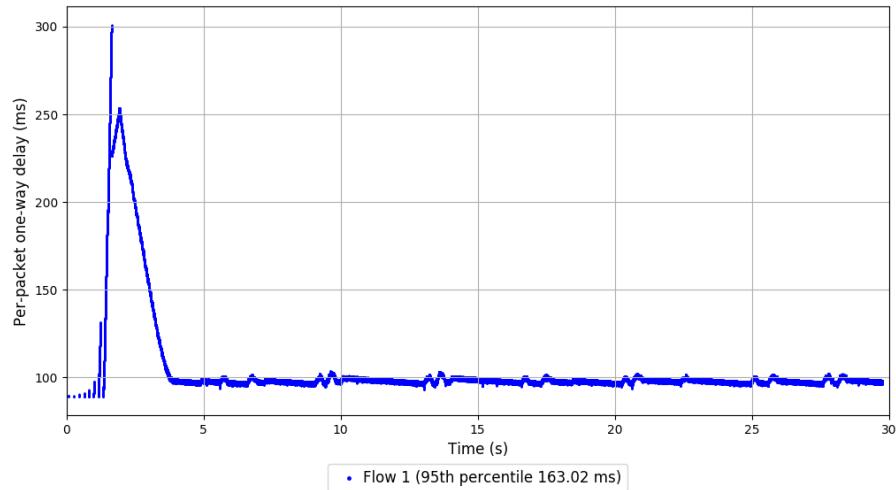
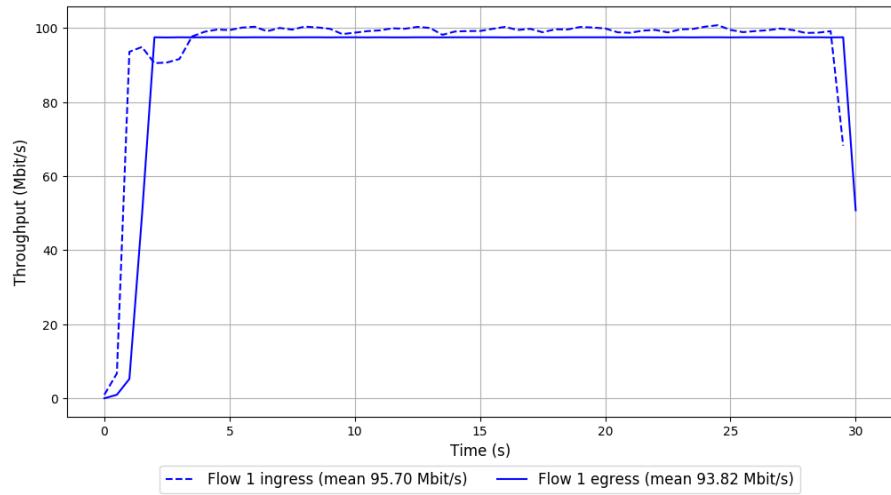


Run 5: Statistics of Indigo

```
Start at: 2019-06-27 14:59:44
End at: 2019-06-27 15:00:14
Local clock offset: -5.871 ms
Remote clock offset: 111.809 ms

# Below is generated by plot.py at 2019-06-27 15:27:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.82 Mbit/s
95th percentile per-packet one-way delay: 163.020 ms
Loss rate: 2.53%
-- Flow 1:
Average throughput: 93.82 Mbit/s
95th percentile per-packet one-way delay: 163.020 ms
Loss rate: 2.53%
```

Run 5: Report of Indigo — Data Link

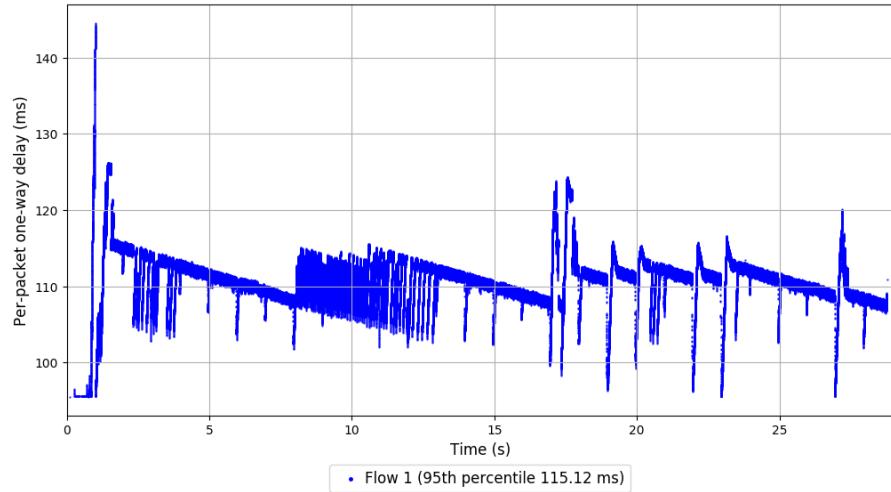
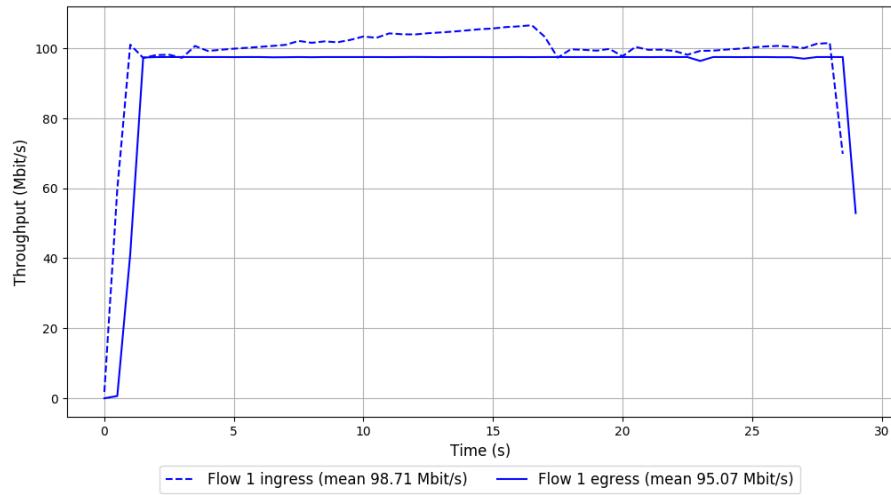


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 13:24:44
End at: 2019-06-27 13:25:14
Local clock offset: -5.68 ms
Remote clock offset: 92.791 ms

# Below is generated by plot.py at 2019-06-27 15:27:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 115.120 ms
Loss rate: 4.26%
-- Flow 1:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 115.120 ms
Loss rate: 4.26%
```

Run 1: Report of Indigo-MusesC3 — Data Link

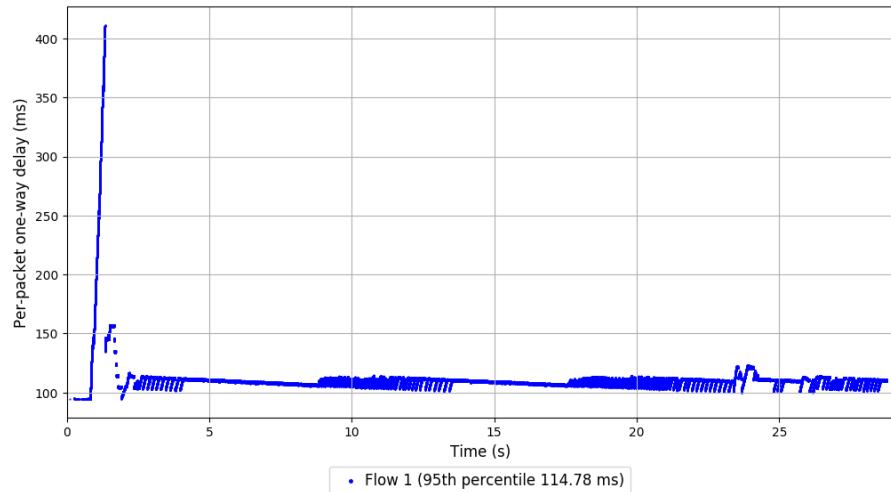
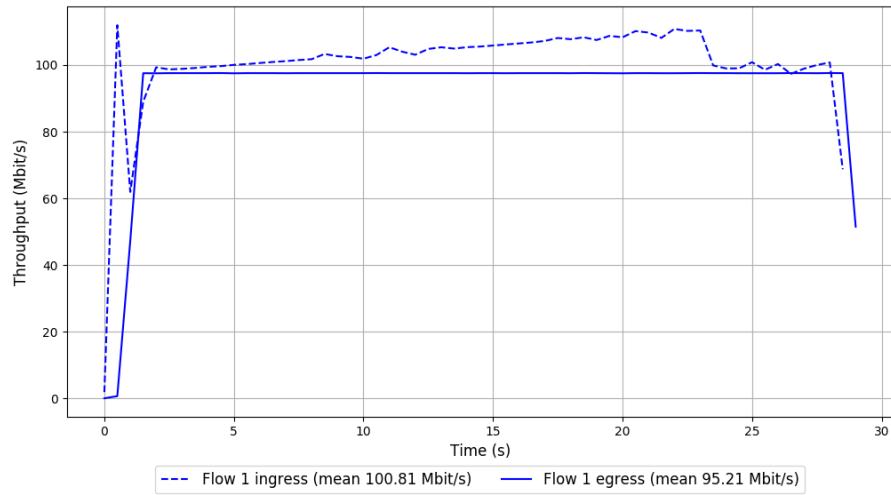


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 13:50:50
End at: 2019-06-27 13:51:20
Local clock offset: -6.347 ms
Remote clock offset: 97.429 ms

# Below is generated by plot.py at 2019-06-27 15:28:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 114.777 ms
Loss rate: 6.13%
-- Flow 1:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 114.777 ms
Loss rate: 6.13%
```

Run 2: Report of Indigo-MusesC3 — Data Link

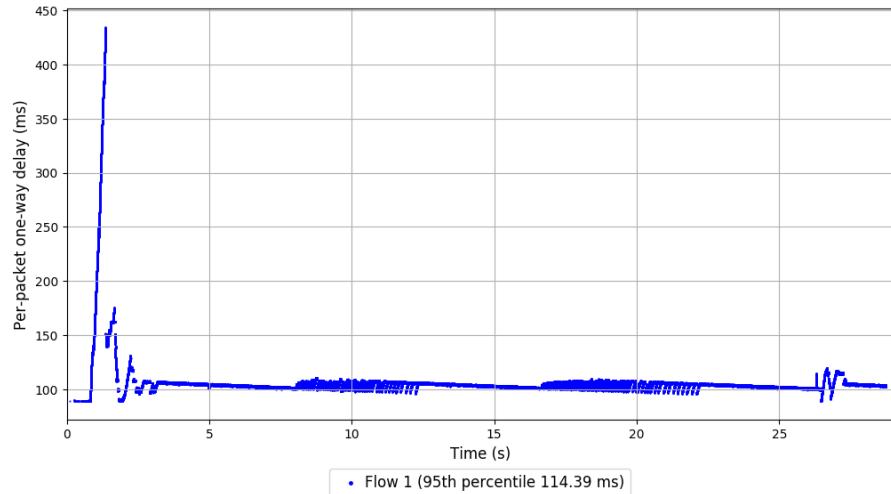
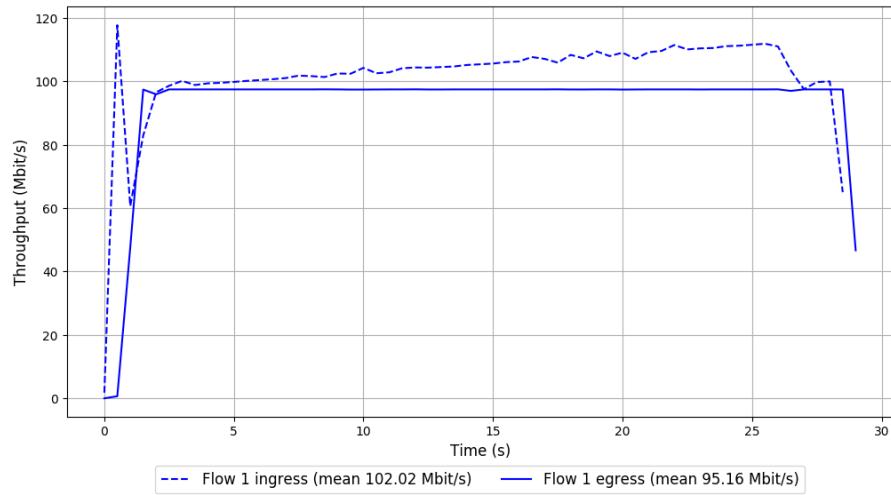


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 14:16:57
End at: 2019-06-27 14:17:27
Local clock offset: -6.332 ms
Remote clock offset: 106.113 ms

# Below is generated by plot.py at 2019-06-27 15:28:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 114.390 ms
Loss rate: 7.29%
-- Flow 1:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 114.390 ms
Loss rate: 7.29%
```

Run 3: Report of Indigo-MusesC3 — Data Link

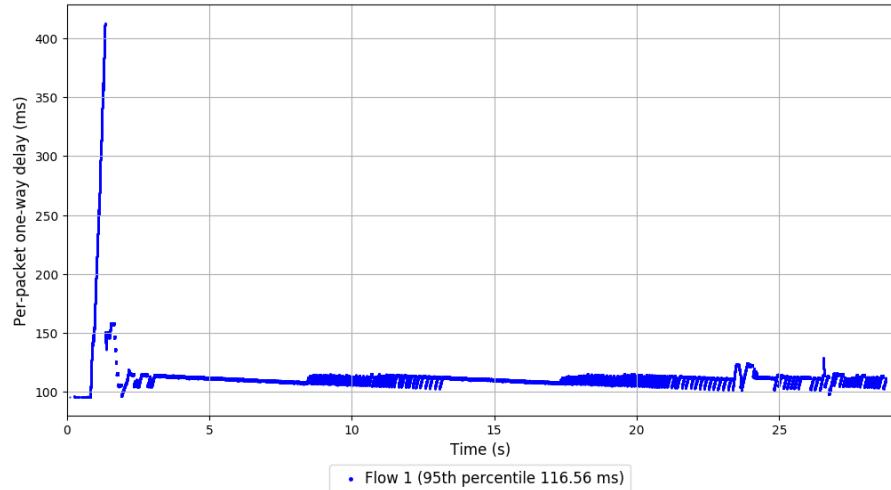
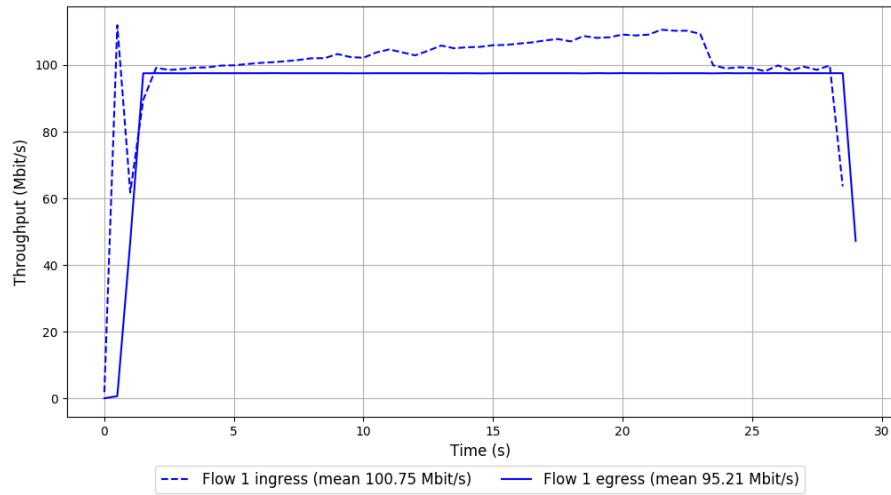


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 14:43:04
End at: 2019-06-27 14:43:34
Local clock offset: -5.407 ms
Remote clock offset: 103.306 ms

# Below is generated by plot.py at 2019-06-27 15:28:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 116.557 ms
Loss rate: 6.08%
-- Flow 1:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 116.557 ms
Loss rate: 6.08%
```

Run 4: Report of Indigo-MusesC3 — Data Link

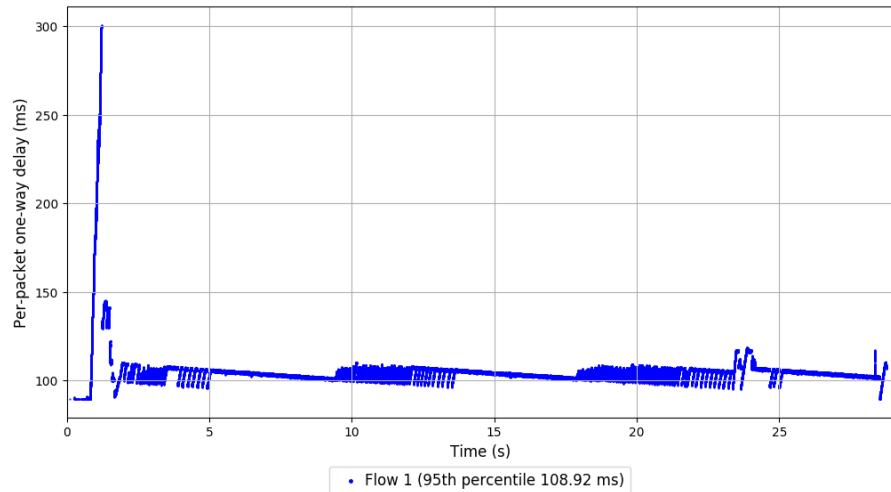
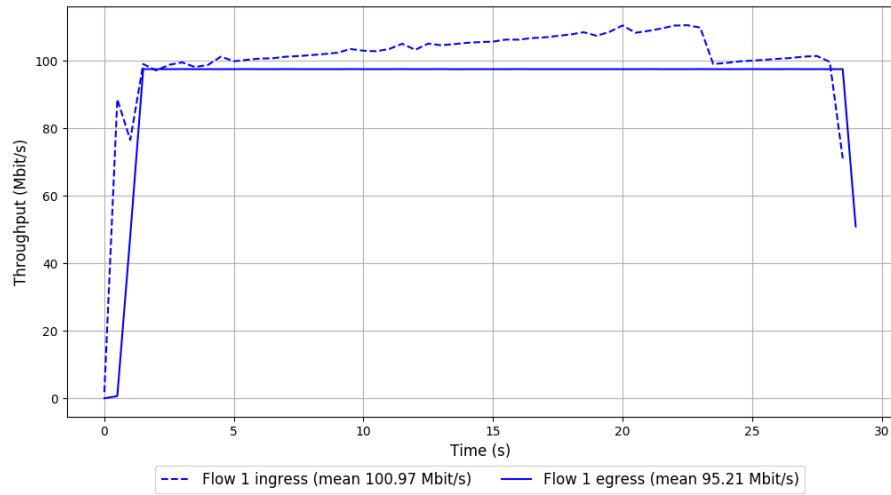


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 15:09:09
End at: 2019-06-27 15:09:39
Local clock offset: -6.242 ms
Remote clock offset: 112.412 ms

# Below is generated by plot.py at 2019-06-27 15:28:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 108.921 ms
Loss rate: 6.28%
-- Flow 1:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 108.921 ms
Loss rate: 6.28%
```

Run 5: Report of Indigo-MusesC3 — Data Link

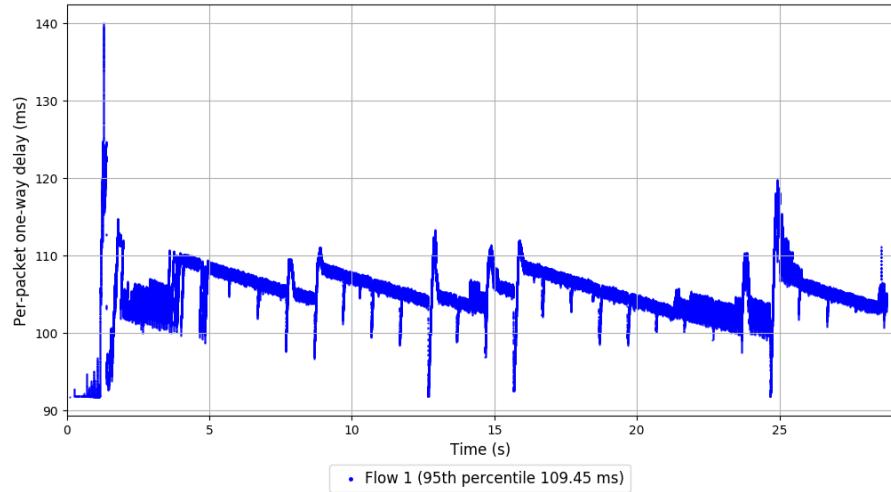
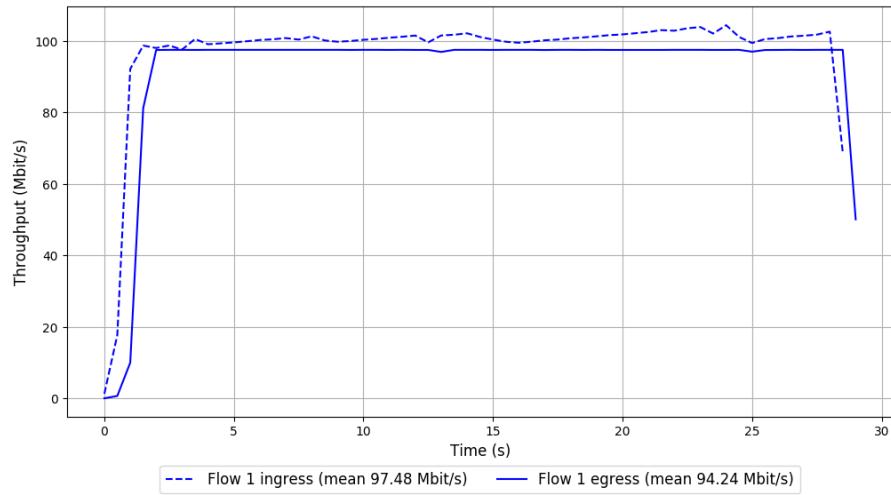


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-06-27 13:28:25
End at: 2019-06-27 13:28:55
Local clock offset: -5.915 ms
Remote clock offset: 97.098 ms

# Below is generated by plot.py at 2019-06-27 15:28:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.24 Mbit/s
95th percentile per-packet one-way delay: 109.454 ms
Loss rate: 3.90%
-- Flow 1:
Average throughput: 94.24 Mbit/s
95th percentile per-packet one-way delay: 109.454 ms
Loss rate: 3.90%
```

Run 1: Report of Indigo-MusesC5 — Data Link

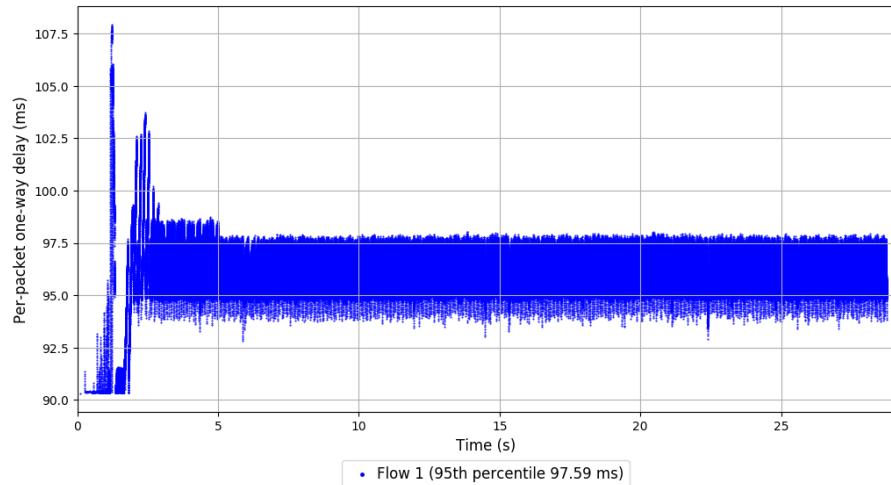
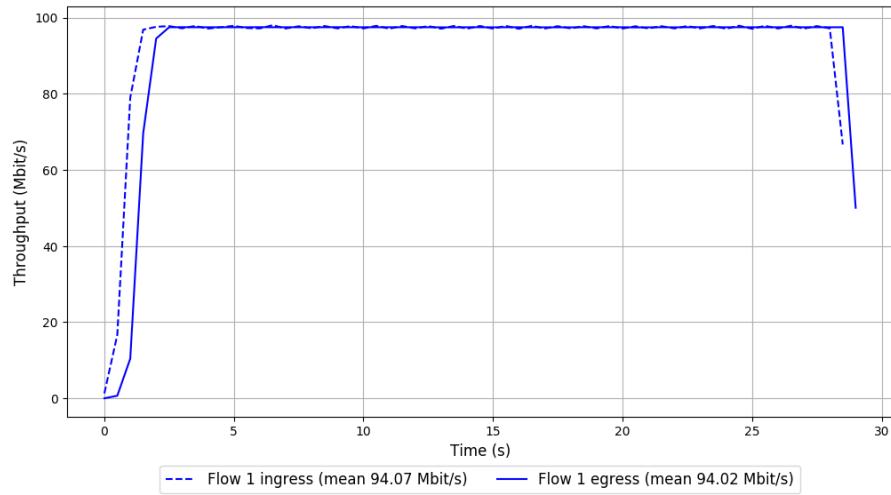


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 13:54:32
End at: 2019-06-27 13:55:02
Local clock offset: -6.309 ms
Remote clock offset: 101.975 ms

# Below is generated by plot.py at 2019-06-27 15:28:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.02 Mbit/s
95th percentile per-packet one-way delay: 97.587 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 94.02 Mbit/s
95th percentile per-packet one-way delay: 97.587 ms
Loss rate: 0.65%
```

Run 2: Report of Indigo-MusesC5 — Data Link

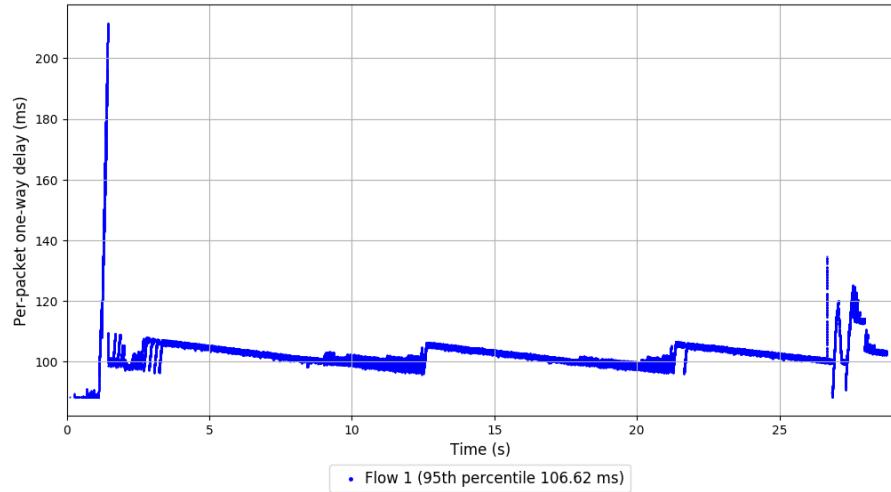
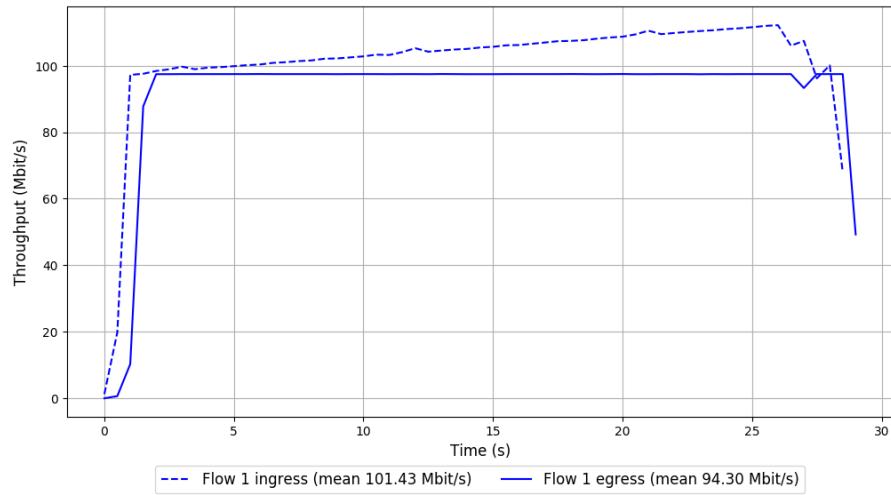


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 14:20:37
End at: 2019-06-27 14:21:07
Local clock offset: -6.917 ms
Remote clock offset: 106.844 ms

# Below is generated by plot.py at 2019-06-27 15:28:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 106.625 ms
Loss rate: 7.59%
-- Flow 1:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 106.625 ms
Loss rate: 7.59%
```

Run 3: Report of Indigo-MusesC5 — Data Link

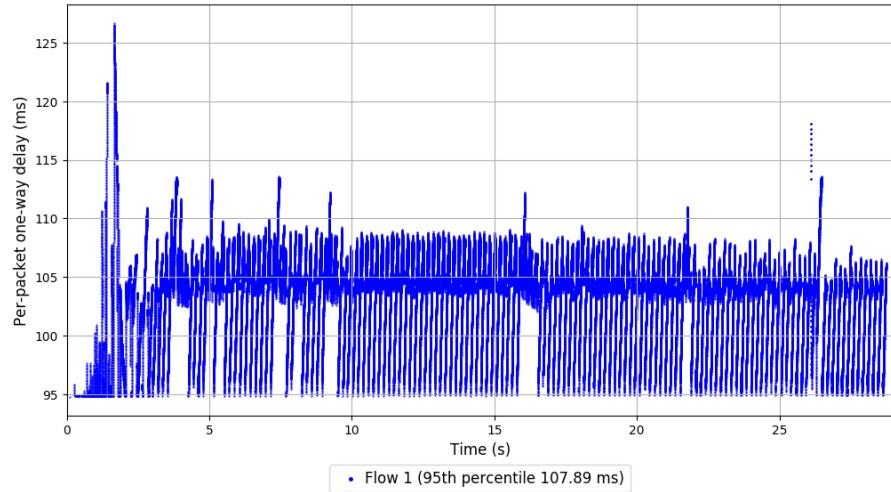
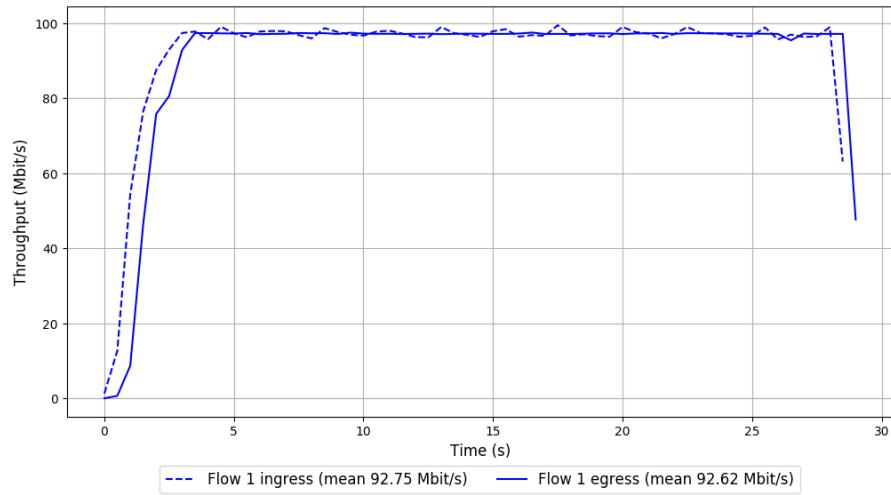


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 14:46:44
End at: 2019-06-27 14:47:14
Local clock offset: -6.327 ms
Remote clock offset: 103.771 ms

# Below is generated by plot.py at 2019-06-27 15:28:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.62 Mbit/s
95th percentile per-packet one-way delay: 107.886 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 92.62 Mbit/s
95th percentile per-packet one-way delay: 107.886 ms
Loss rate: 0.74%
```

Run 4: Report of Indigo-MusesC5 — Data Link

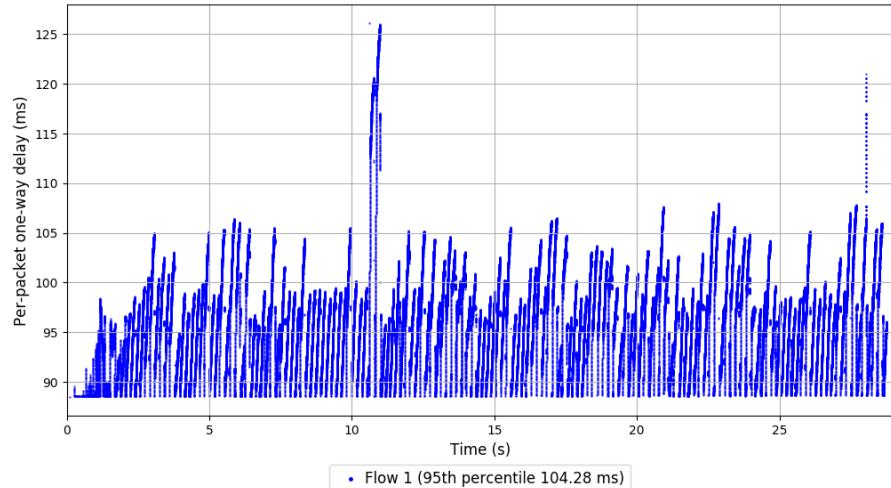
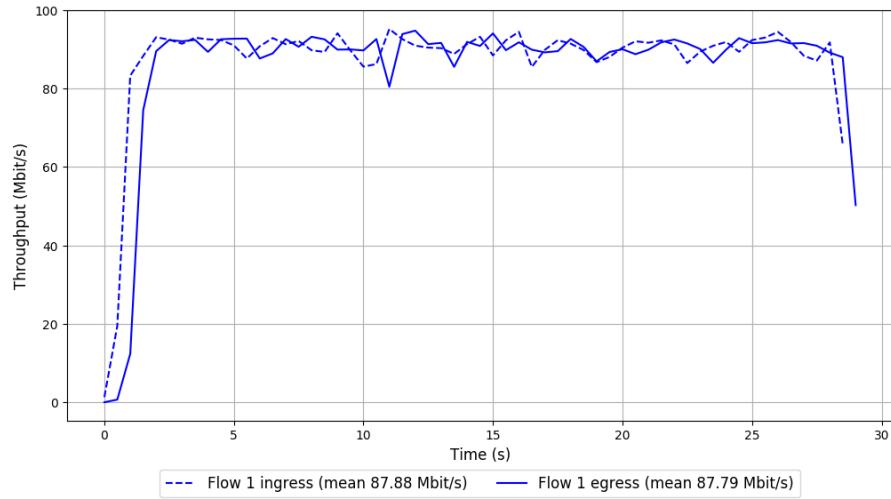


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 15:12:50
End at: 2019-06-27 15:13:20
Local clock offset: -6.054 ms
Remote clock offset: 113.856 ms

# Below is generated by plot.py at 2019-06-27 15:29:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.79 Mbit/s
95th percentile per-packet one-way delay: 104.277 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 87.79 Mbit/s
95th percentile per-packet one-way delay: 104.277 ms
Loss rate: 0.70%
```

Run 5: Report of Indigo-MusesC5 — Data Link

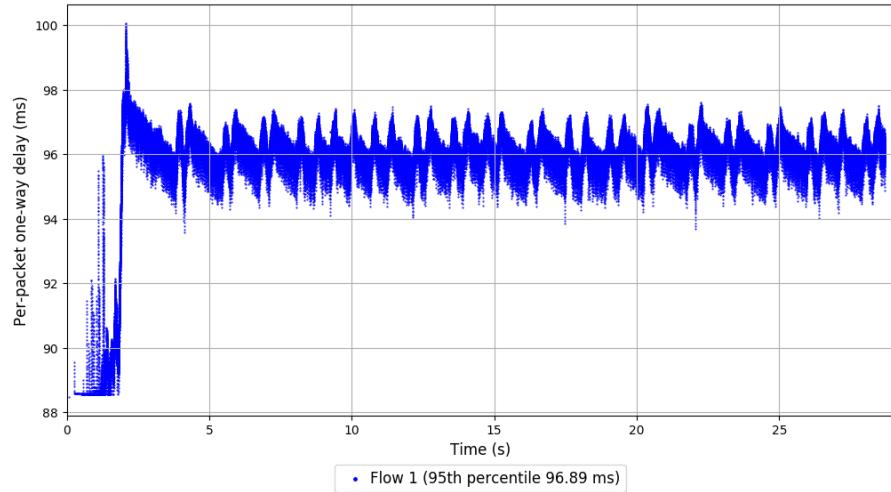
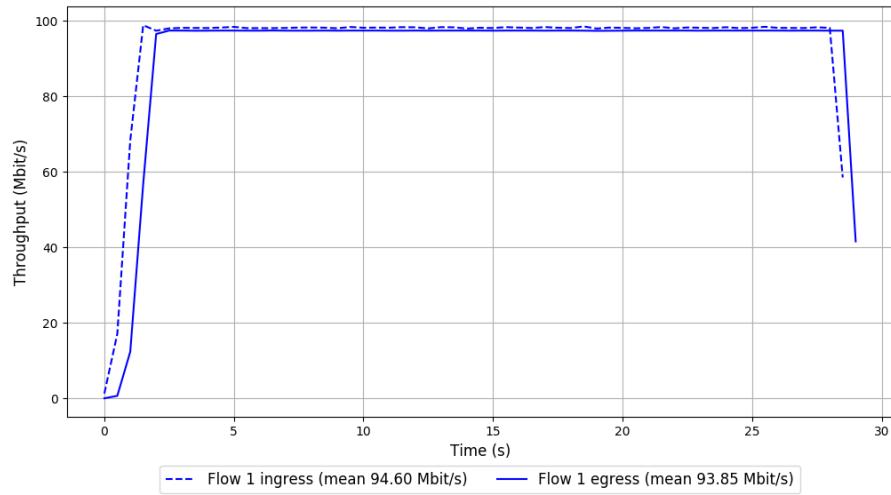


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 13:23:31
End at: 2019-06-27 13:24:01
Local clock offset: -5.605 ms
Remote clock offset: 98.979 ms

# Below is generated by plot.py at 2019-06-27 15:29:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 96.887 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 96.887 ms
Loss rate: 1.40%
```

Run 1: Report of Indigo-MusesD — Data Link

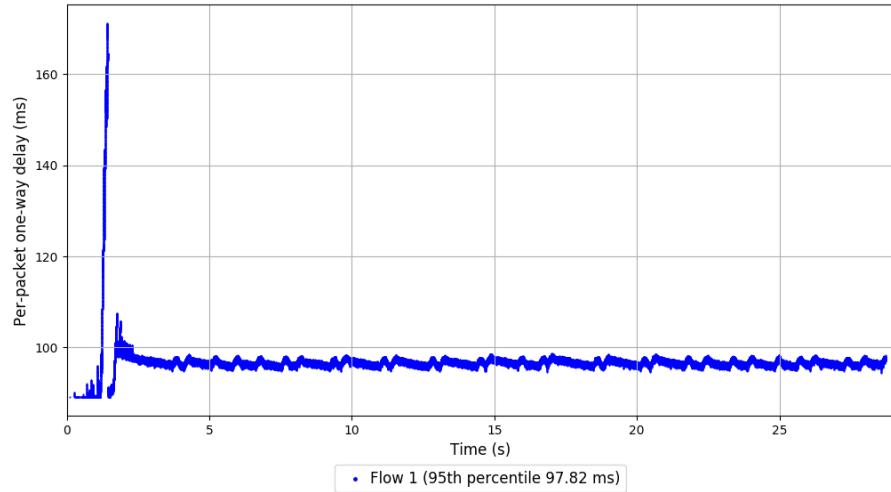
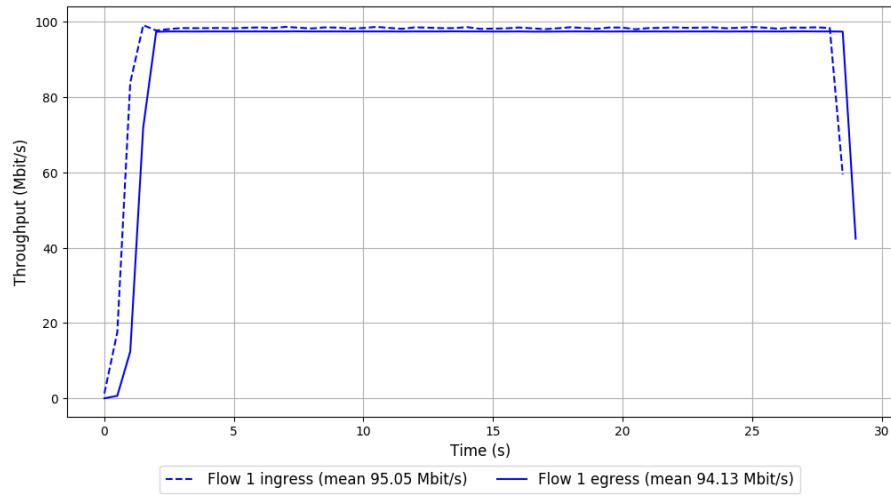


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 13:49:38
End at: 2019-06-27 13:50:08
Local clock offset: -6.357 ms
Remote clock offset: 102.492 ms

# Below is generated by plot.py at 2019-06-27 15:29:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.13 Mbit/s
95th percentile per-packet one-way delay: 97.823 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 94.13 Mbit/s
95th percentile per-packet one-way delay: 97.823 ms
Loss rate: 1.56%
```

Run 2: Report of Indigo-MusesD — Data Link

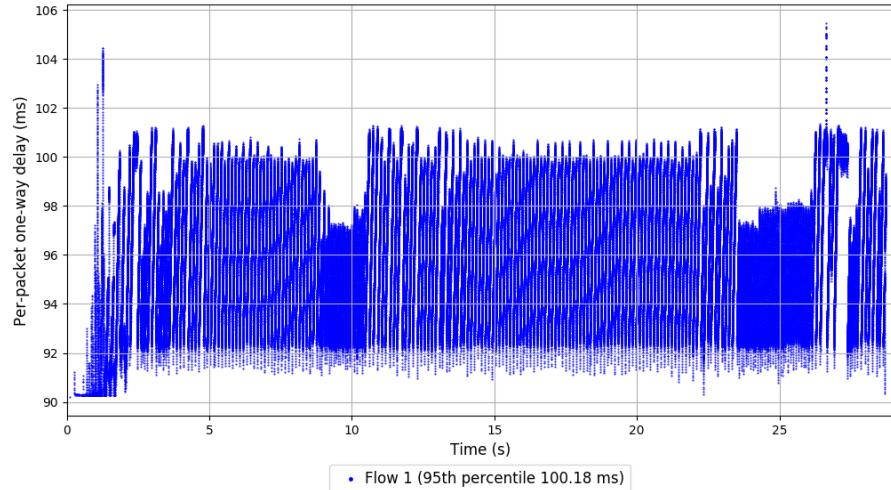
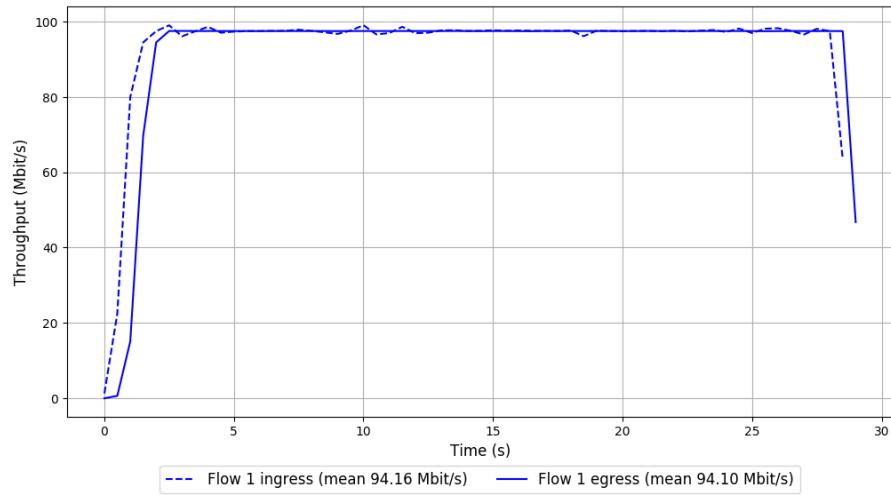


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 14:15:45
End at: 2019-06-27 14:16:15
Local clock offset: -6.542 ms
Remote clock offset: 104.827 ms

# Below is generated by plot.py at 2019-06-27 15:29:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 100.183 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 100.183 ms
Loss rate: 0.66%
```

Run 3: Report of Indigo-MusesD — Data Link

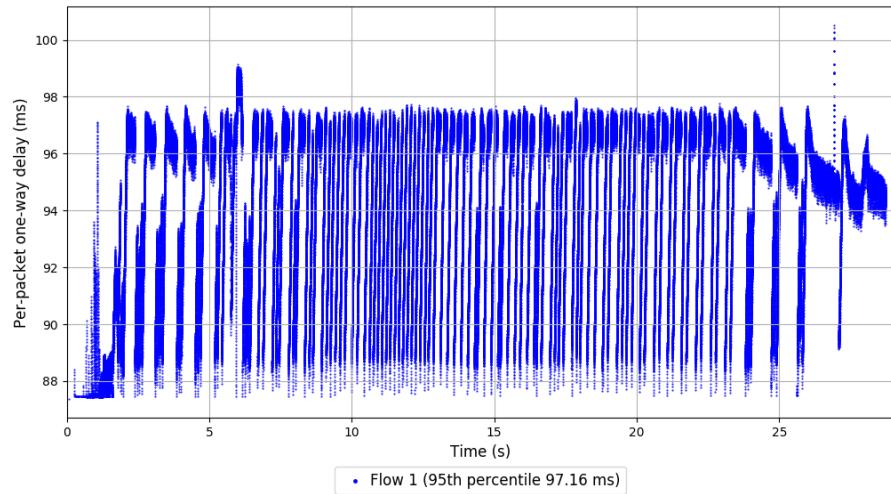
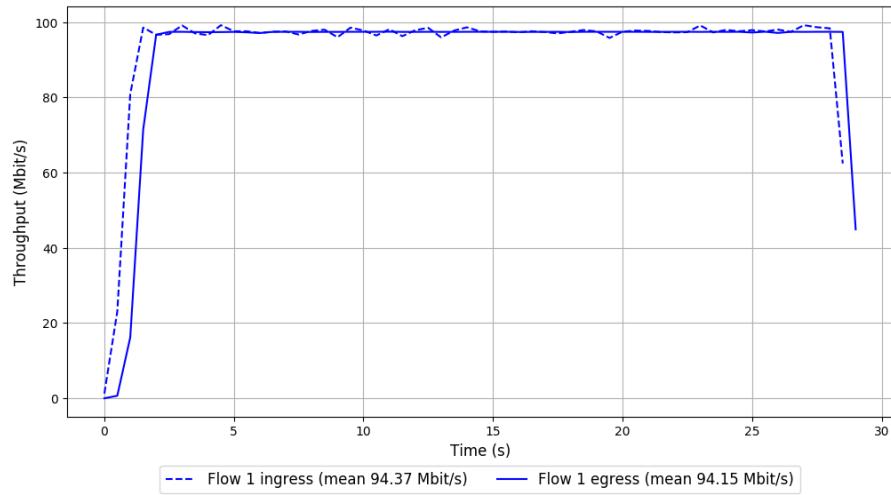


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 14:41:51
End at: 2019-06-27 14:42:21
Local clock offset: -6.179 ms
Remote clock offset: 109.978 ms

# Below is generated by plot.py at 2019-06-27 15:29:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 97.160 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 97.160 ms
Loss rate: 0.83%
```

Run 4: Report of Indigo-MusesD — Data Link

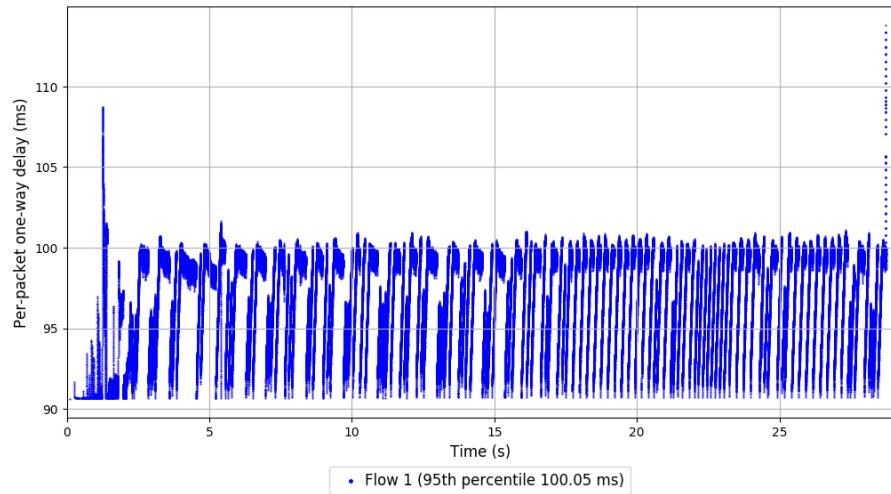
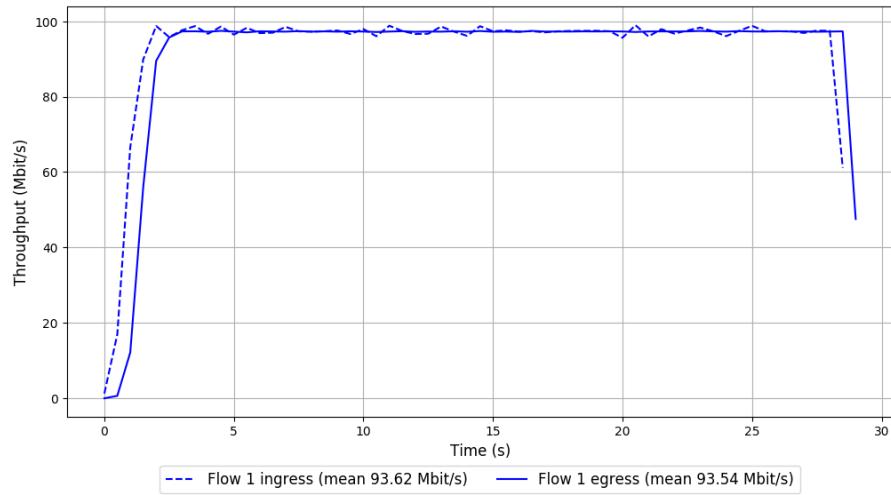


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 15:07:57
End at: 2019-06-27 15:08:27
Local clock offset: -6.966 ms
Remote clock offset: 110.748 ms

# Below is generated by plot.py at 2019-06-27 15:29:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.54 Mbit/s
95th percentile per-packet one-way delay: 100.048 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 93.54 Mbit/s
95th percentile per-packet one-way delay: 100.048 ms
Loss rate: 0.68%
```

Run 5: Report of Indigo-MusesD — Data Link

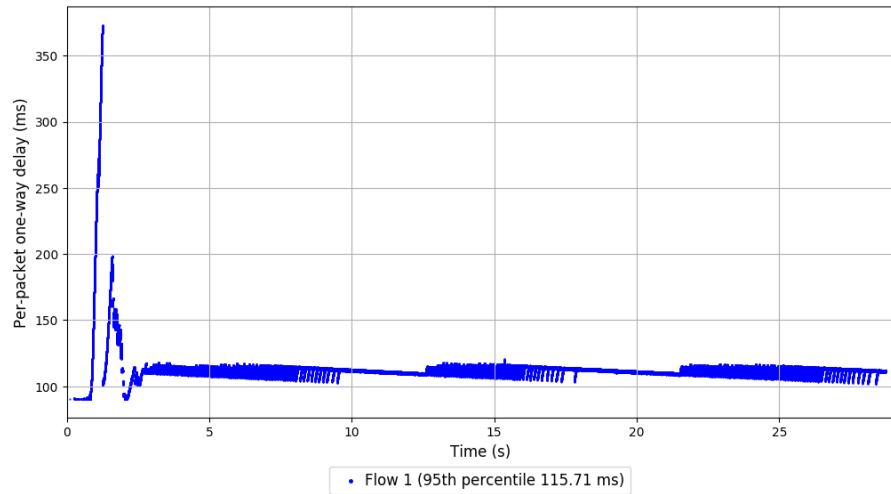
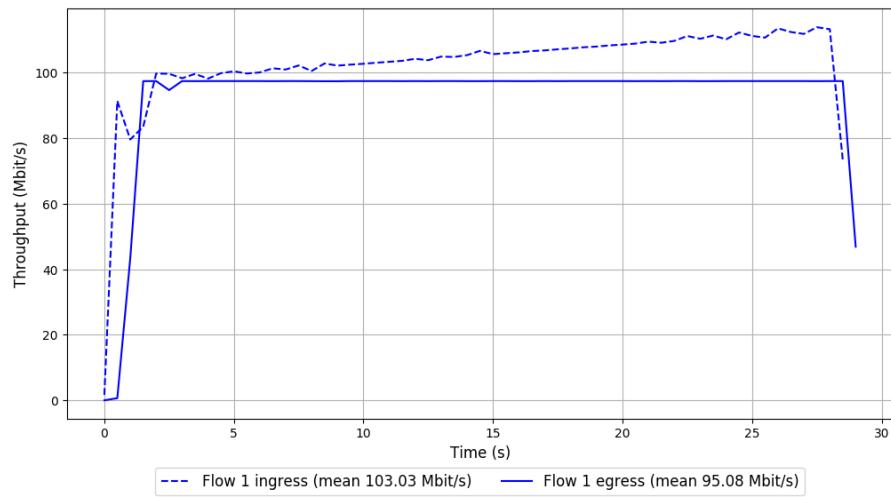


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 13:29:37
End at: 2019-06-27 13:30:07
Local clock offset: -5.998 ms
Remote clock offset: 98.636 ms

# Below is generated by plot.py at 2019-06-27 15:29:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 115.712 ms
Loss rate: 8.27%
-- Flow 1:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 115.712 ms
Loss rate: 8.27%
```

Run 1: Report of Indigo-MusesT — Data Link

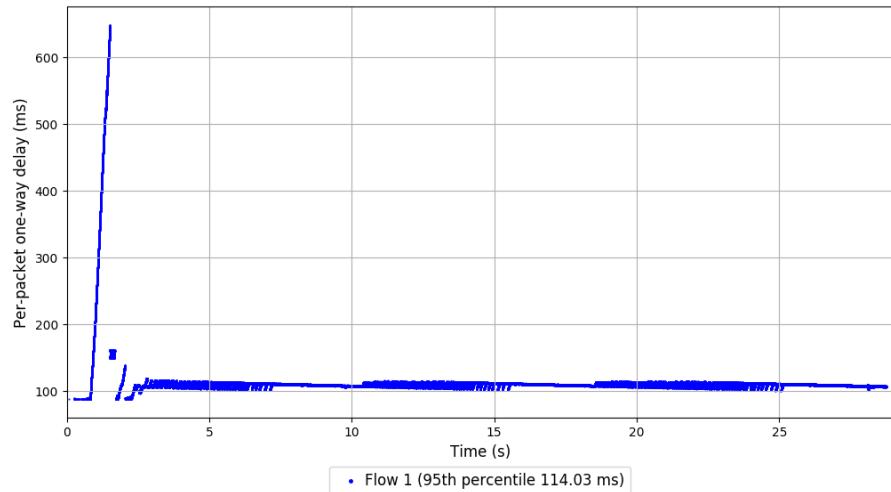
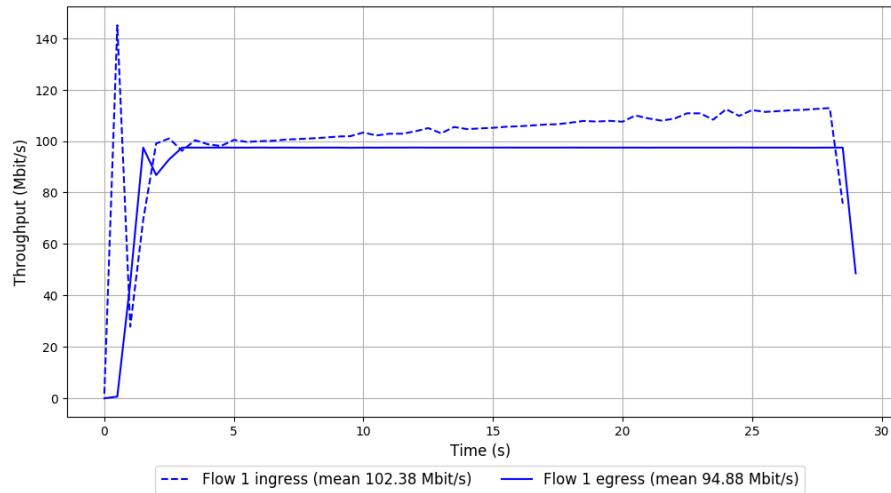


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 13:55:44
End at: 2019-06-27 13:56:14
Local clock offset: -7.292 ms
Remote clock offset: 103.435 ms

# Below is generated by plot.py at 2019-06-27 15:30:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.88 Mbit/s
95th percentile per-packet one-way delay: 114.028 ms
Loss rate: 7.88%
-- Flow 1:
Average throughput: 94.88 Mbit/s
95th percentile per-packet one-way delay: 114.028 ms
Loss rate: 7.88%
```

Run 2: Report of Indigo-MusesT — Data Link

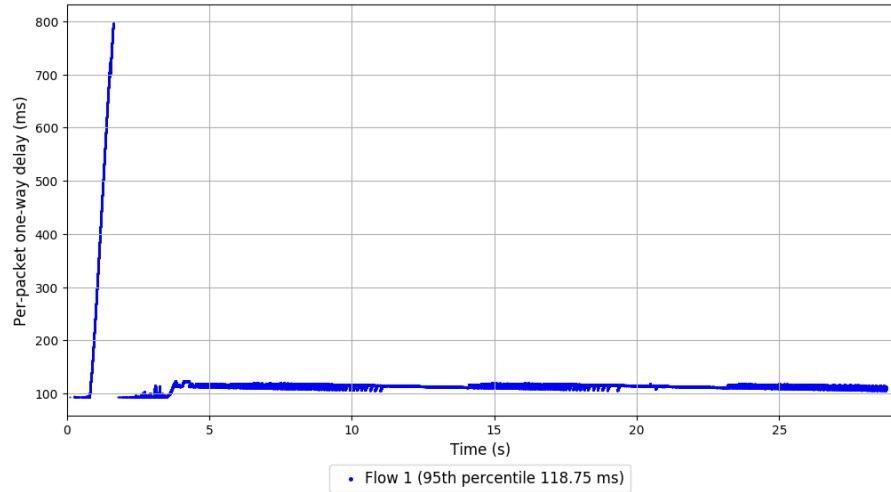
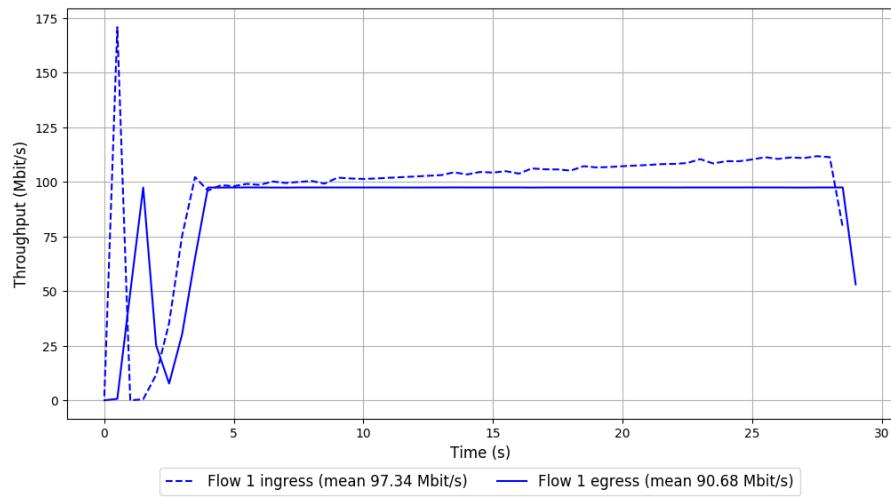


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 14:21:50
End at: 2019-06-27 14:22:20
Local clock offset: -6.048 ms
Remote clock offset: 101.89 ms

# Below is generated by plot.py at 2019-06-27 15:30:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 118.755 ms
Loss rate: 7.40%
-- Flow 1:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 118.755 ms
Loss rate: 7.40%
```

Run 3: Report of Indigo-MusesT — Data Link

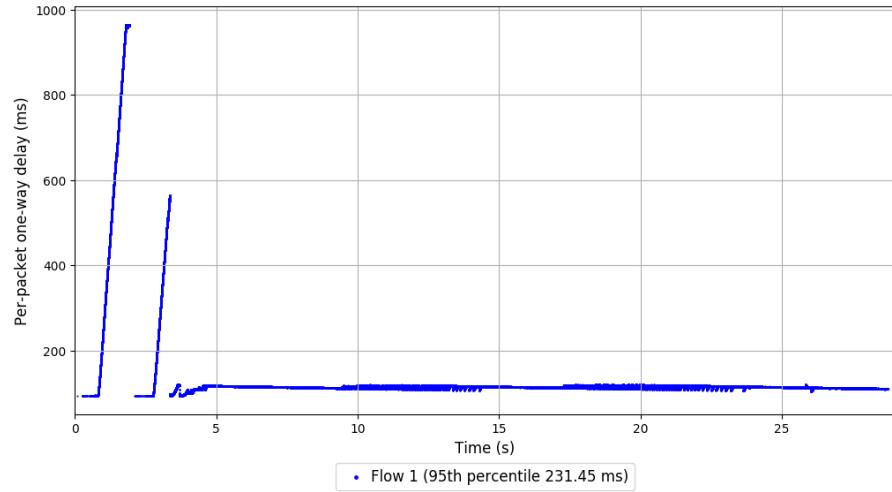
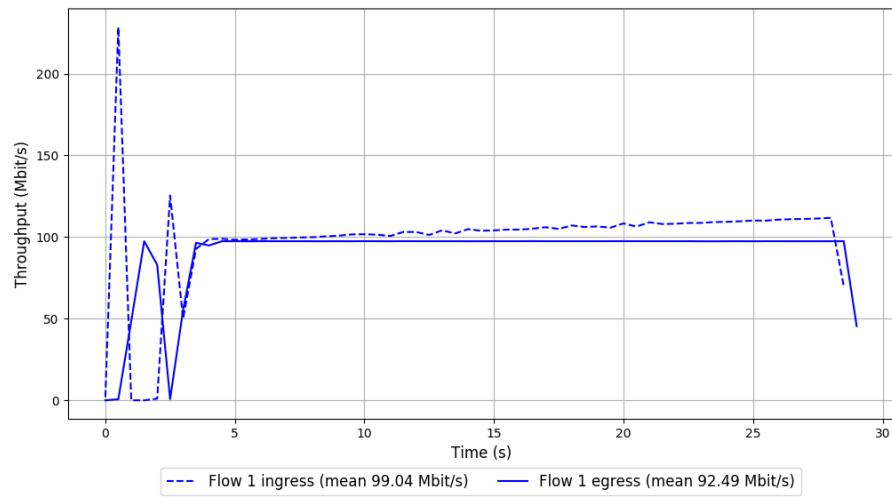


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 14:47:56
End at: 2019-06-27 14:48:26
Local clock offset: -5.422 ms
Remote clock offset: 105.216 ms

# Below is generated by plot.py at 2019-06-27 15:30:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.49 Mbit/s
95th percentile per-packet one-way delay: 231.446 ms
Loss rate: 7.18%
-- Flow 1:
Average throughput: 92.49 Mbit/s
95th percentile per-packet one-way delay: 231.446 ms
Loss rate: 7.18%
```

Run 4: Report of Indigo-MusesT — Data Link

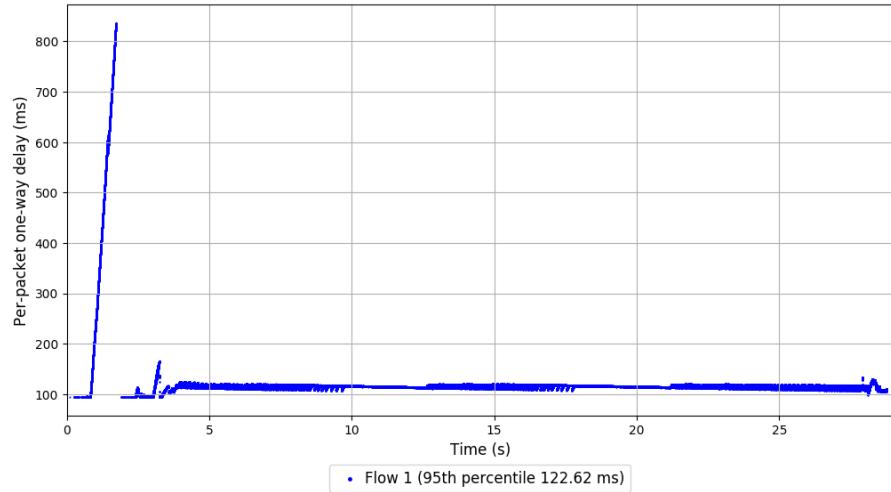
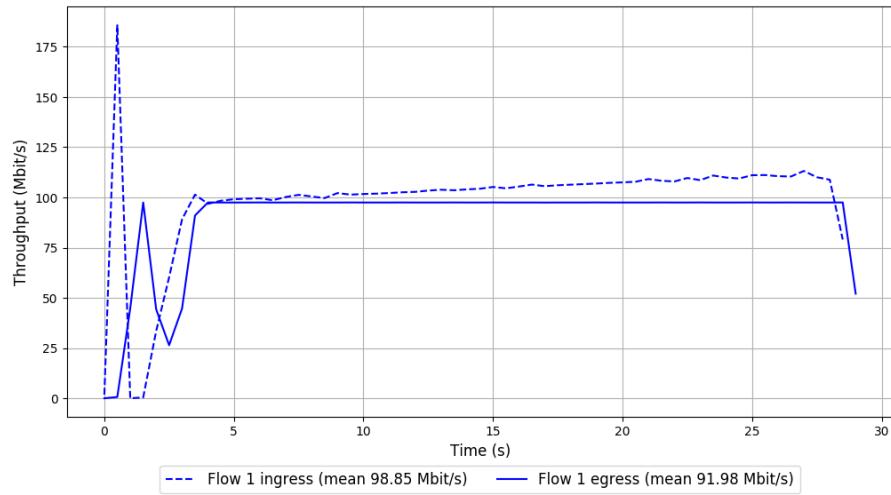


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 15:14:02
End at: 2019-06-27 15:14:32
Local clock offset: -6.045 ms
Remote clock offset: 108.839 ms

# Below is generated by plot.py at 2019-06-27 15:30:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.98 Mbit/s
95th percentile per-packet one-way delay: 122.624 ms
Loss rate: 7.50%
-- Flow 1:
Average throughput: 91.98 Mbit/s
95th percentile per-packet one-way delay: 122.624 ms
Loss rate: 7.50%
```

Run 5: Report of Indigo-MusesT — Data Link

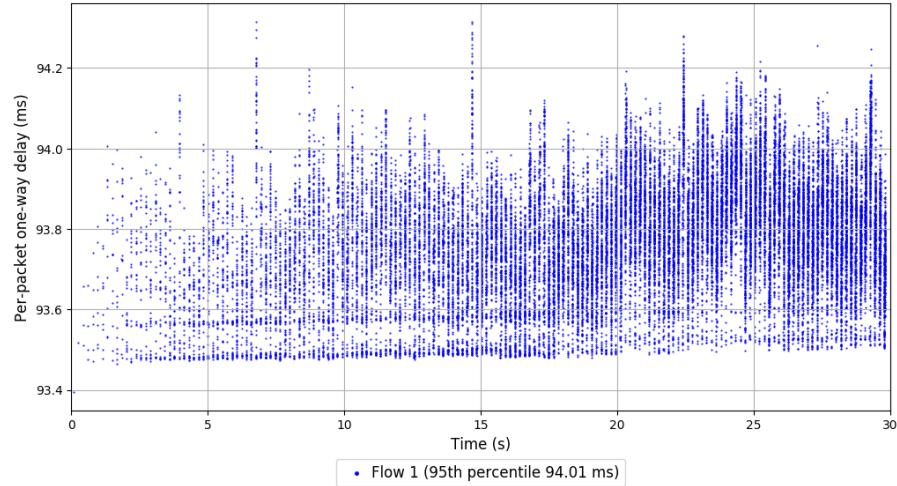
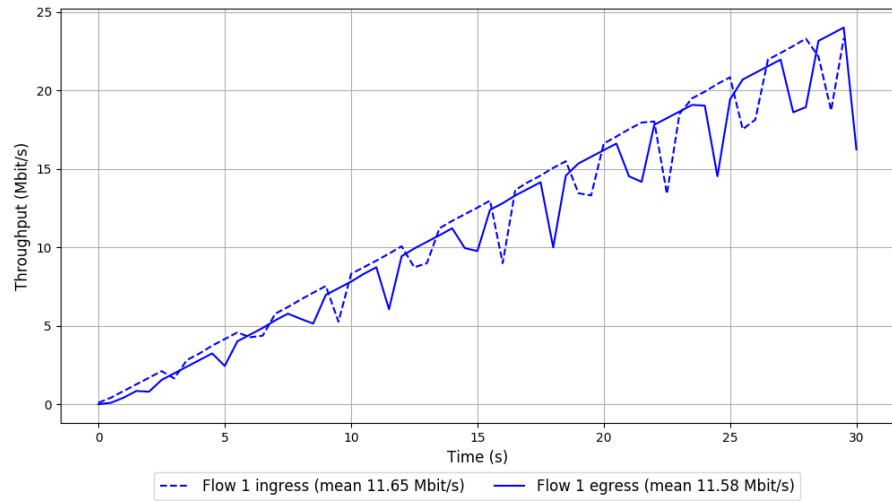


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-06-27 13:12:56
End at: 2019-06-27 13:13:26
Local clock offset: -5.226 ms
Remote clock offset: 92.538 ms

# Below is generated by plot.py at 2019-06-27 15:30:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 94.012 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 94.012 ms
Loss rate: 1.18%
```

Run 1: Report of LEDBAT — Data Link

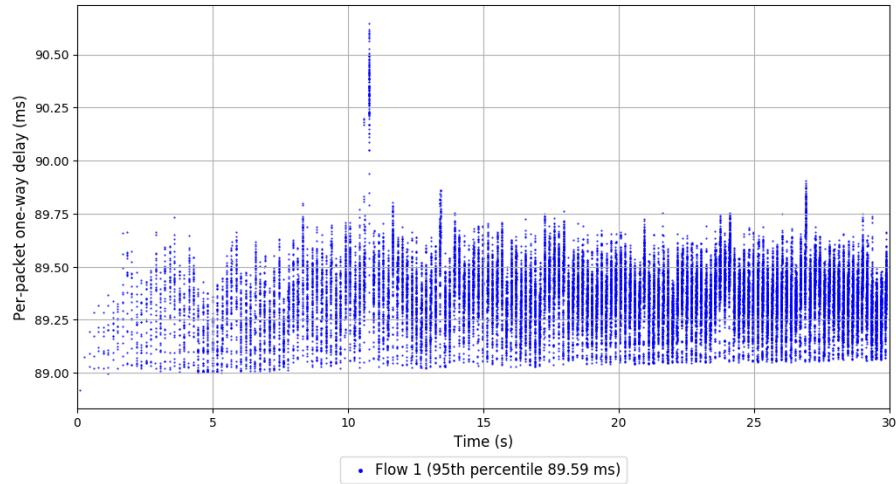
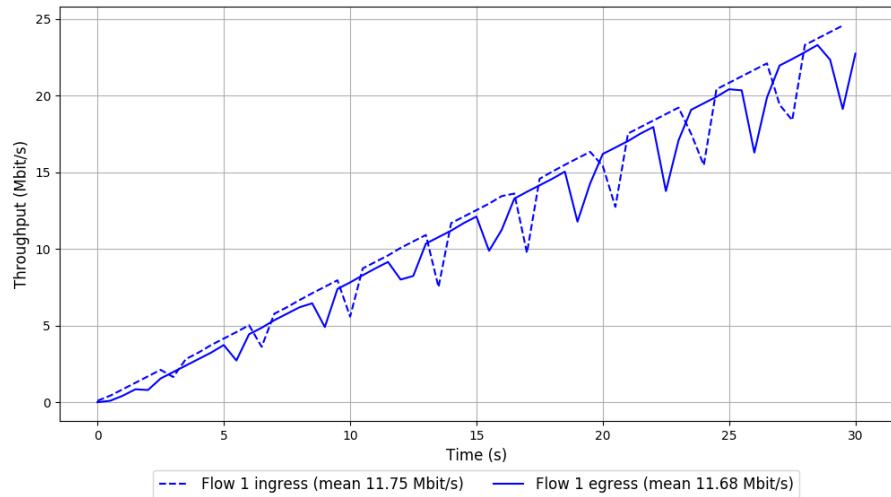


Run 2: Statistics of LEDBAT

```
Start at: 2019-06-27 13:39:02
End at: 2019-06-27 13:39:32
Local clock offset: -6.979 ms
Remote clock offset: 99.89 ms

# Below is generated by plot.py at 2019-06-27 15:30:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 89.589 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 89.589 ms
Loss rate: 1.17%
```

Run 2: Report of LEDBAT — Data Link

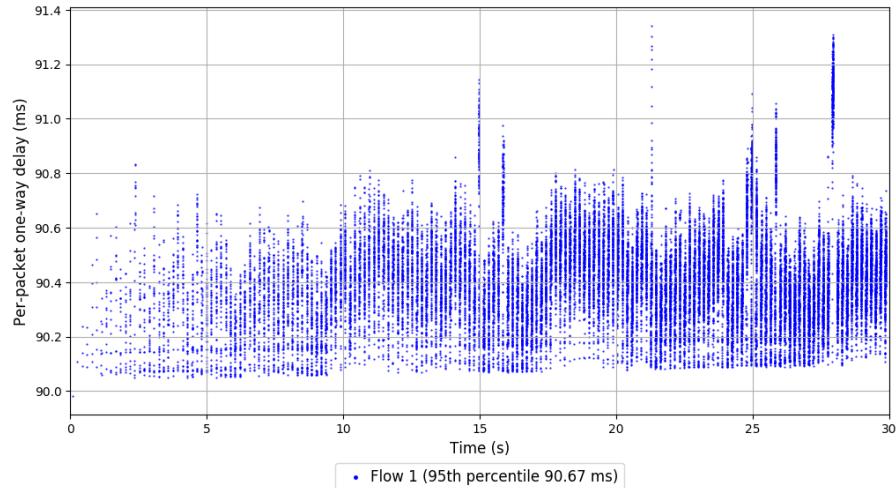
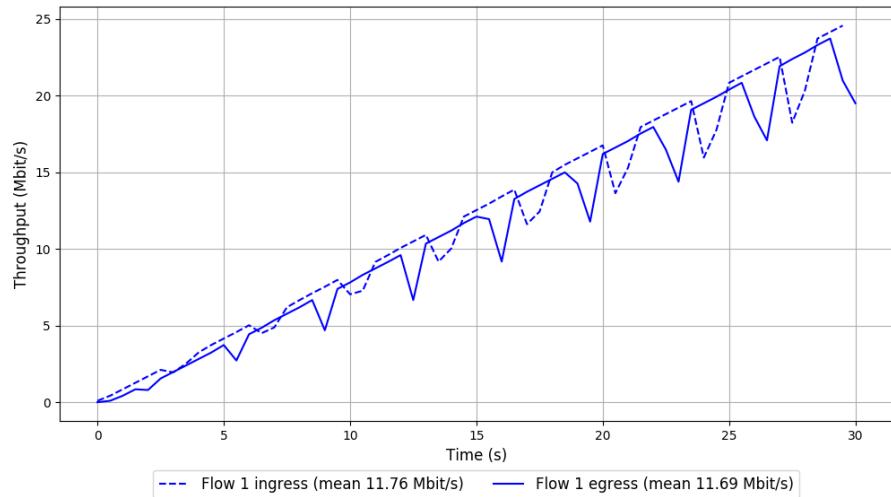


Run 3: Statistics of LEDBAT

```
Start at: 2019-06-27 14:05:10
End at: 2019-06-27 14:05:40
Local clock offset: -6.332 ms
Remote clock offset: 103.745 ms

# Below is generated by plot.py at 2019-06-27 15:30:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 90.675 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 90.675 ms
Loss rate: 1.17%
```

Run 3: Report of LEDBAT — Data Link

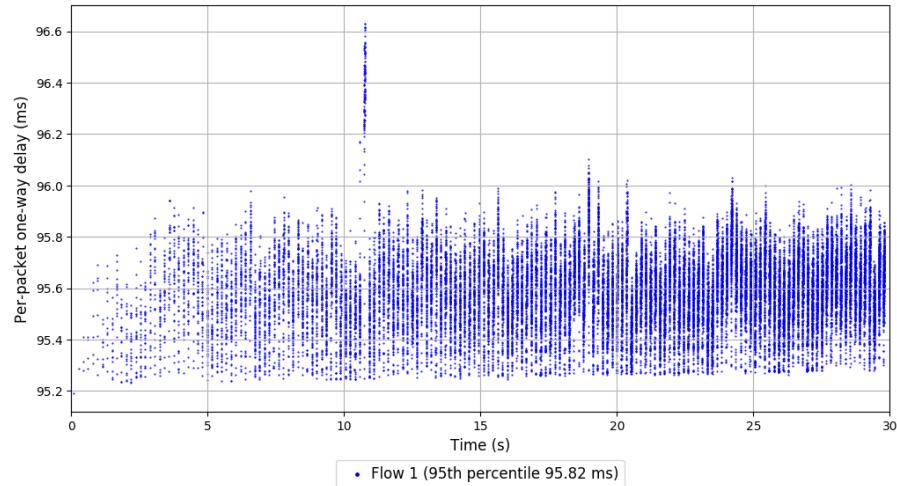
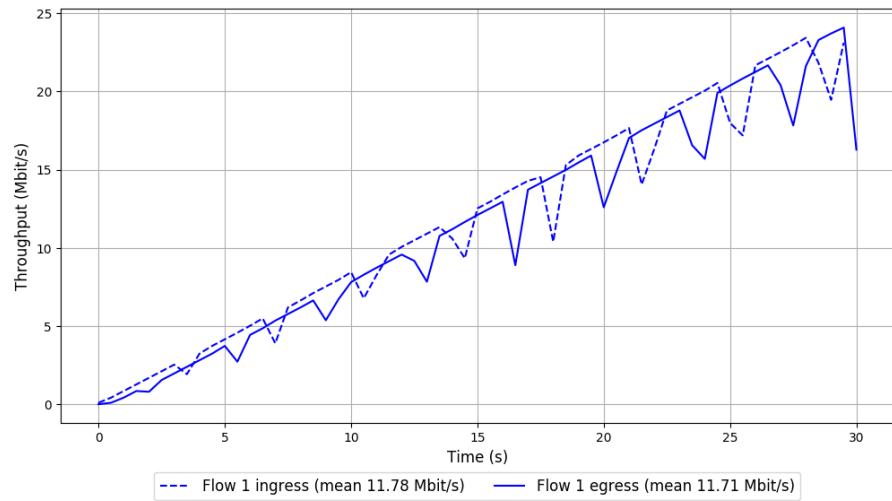


Run 4: Statistics of LEDBAT

```
Start at: 2019-06-27 14:31:15
End at: 2019-06-27 14:31:45
Local clock offset: -5.859 ms
Remote clock offset: 101.94 ms

# Below is generated by plot.py at 2019-06-27 15:30:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 95.820 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 95.820 ms
Loss rate: 1.17%
```

Run 4: Report of LEDBAT — Data Link

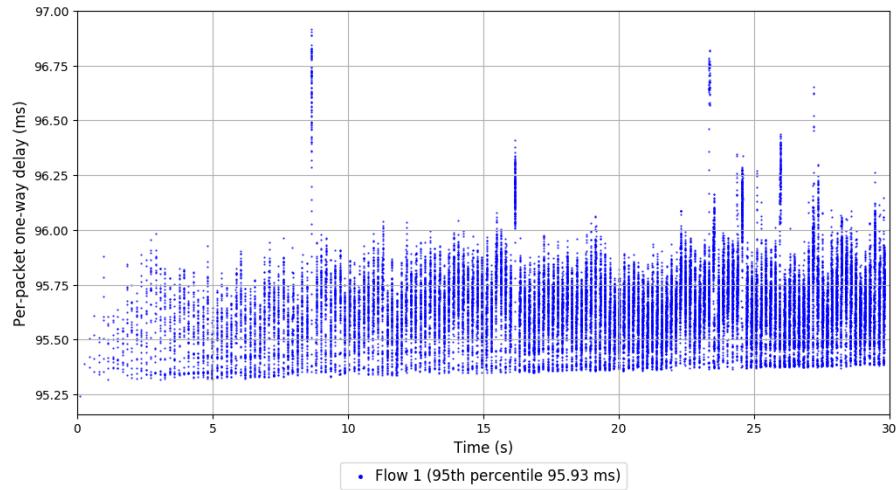
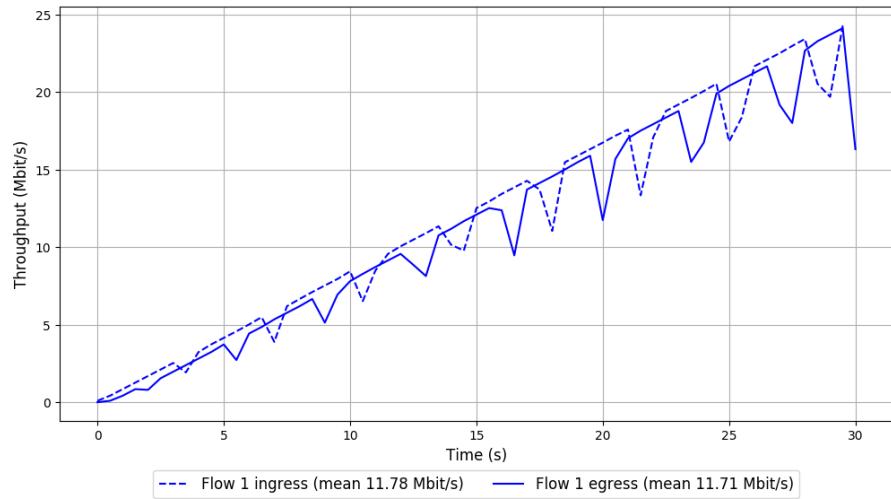


Run 5: Statistics of LEDBAT

```
Start at: 2019-06-27 14:57:22
End at: 2019-06-27 14:57:52
Local clock offset: -5.818 ms
Remote clock offset: 105.321 ms

# Below is generated by plot.py at 2019-06-27 15:30:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 95.928 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 95.928 ms
Loss rate: 1.17%
```

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-06-27 13:32:02

End at: 2019-06-27 13:32:32

Local clock offset: -6.266 ms

Remote clock offset: 93.912 ms

Run 1: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses_DecisionTree

Start at: 2019-06-27 13:58:09
End at: 2019-06-27 13:58:39
Local clock offset: -7.276 ms
Remote clock offset: 98.596 ms

Run 2: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses_DecisionTree

Start at: 2019-06-27 14:24:15
End at: 2019-06-27 14:24:45
Local clock offset: -6.667 ms
Remote clock offset: 105.024 ms

Run 3: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTree

Start at: 2019-06-27 14:50:21
End at: 2019-06-27 14:50:51
Local clock offset: -5.496 ms
Remote clock offset: 108.54 ms

Run 4: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses_DecisionTree

Start at: 2019-06-27 15:16:27
End at: 2019-06-27 15:16:57
Local clock offset: -6.823 ms
Remote clock offset: 114.587 ms

Run 5: Report of Muses_DecisionTree — Data Link

Figure is missing

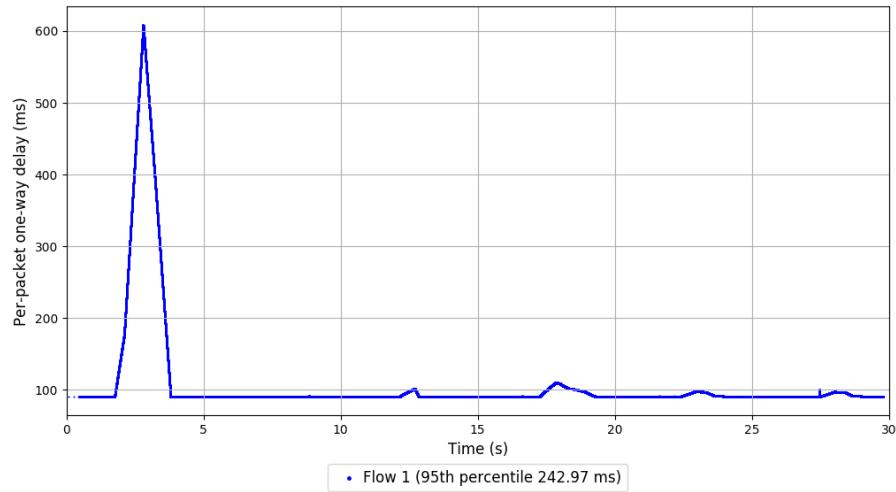
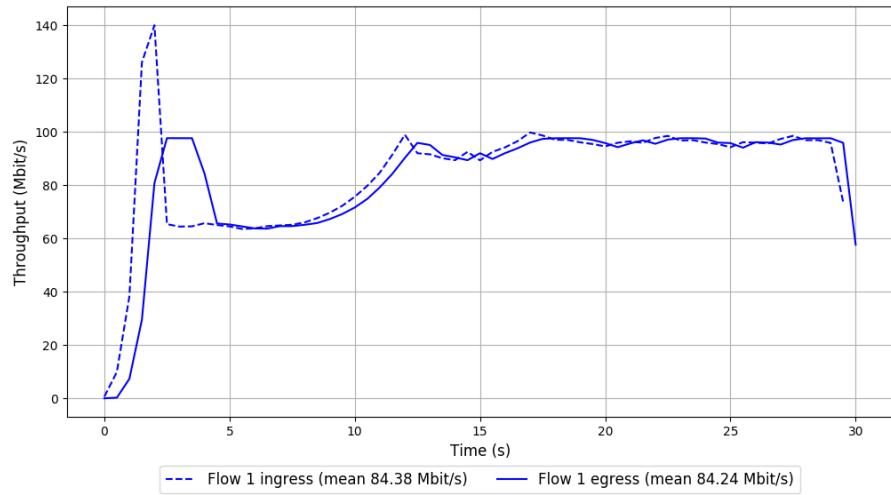
Figure is missing

Run 1: Statistics of PCC-Allegro

```
Start at: 2019-06-27 13:17:43
End at: 2019-06-27 13:18:13
Local clock offset: -5.817 ms
Remote clock offset: 95.879 ms

# Below is generated by plot.py at 2019-06-27 15:30:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.24 Mbit/s
95th percentile per-packet one-way delay: 242.965 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 84.24 Mbit/s
95th percentile per-packet one-way delay: 242.965 ms
Loss rate: 0.75%
```

Run 1: Report of PCC-Allegro — Data Link

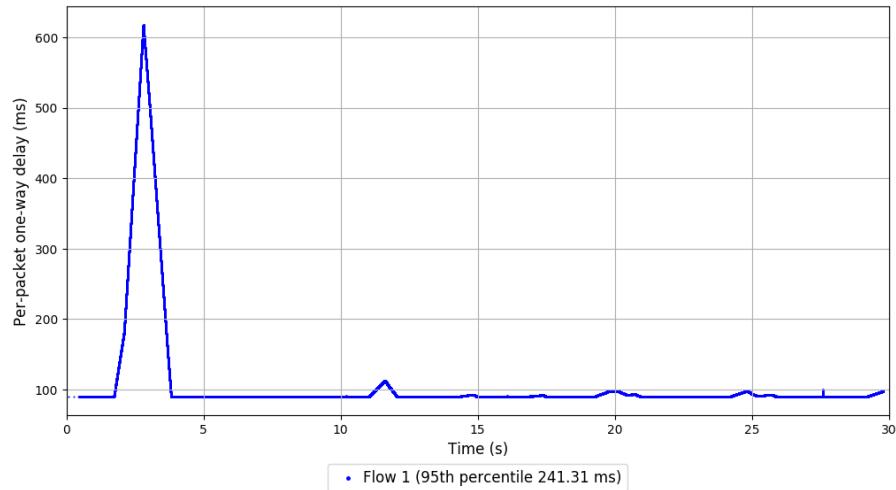
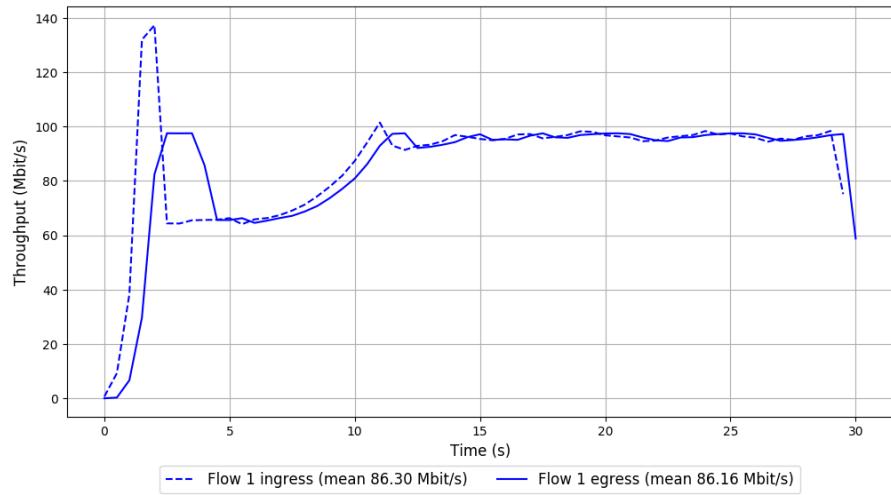


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-06-27 13:43:49
End at: 2019-06-27 13:44:19
Local clock offset: -7.117 ms
Remote clock offset: 100.252 ms

# Below is generated by plot.py at 2019-06-27 15:30:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.16 Mbit/s
95th percentile per-packet one-way delay: 241.314 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 86.16 Mbit/s
95th percentile per-packet one-way delay: 241.314 ms
Loss rate: 0.74%
```

Run 2: Report of PCC-Allegro — Data Link

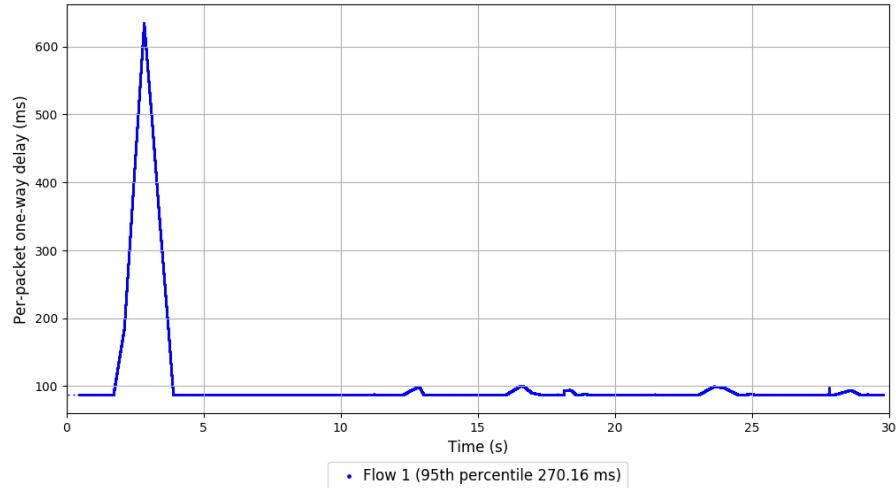
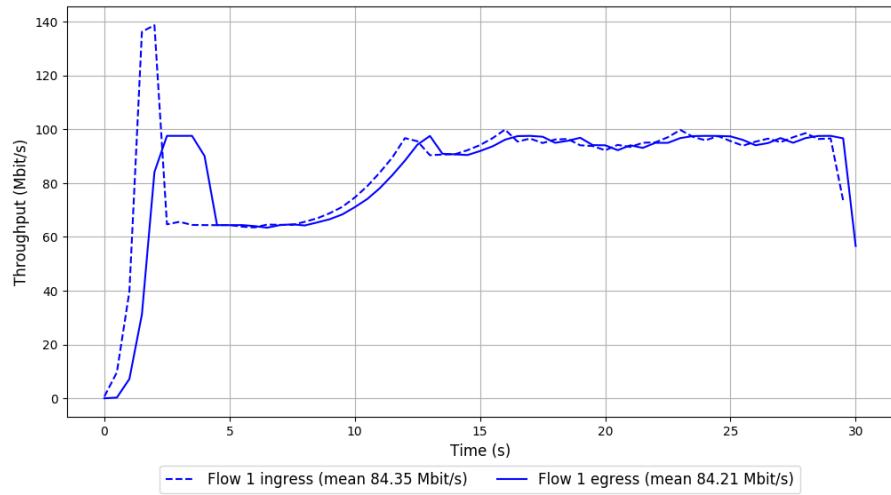


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-06-27 14:09:57
End at: 2019-06-27 14:10:27
Local clock offset: -7.291 ms
Remote clock offset: 105.437 ms

# Below is generated by plot.py at 2019-06-27 15:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.21 Mbit/s
95th percentile per-packet one-way delay: 270.158 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 84.21 Mbit/s
95th percentile per-packet one-way delay: 270.158 ms
Loss rate: 0.75%
```

Run 3: Report of PCC-Allegro — Data Link

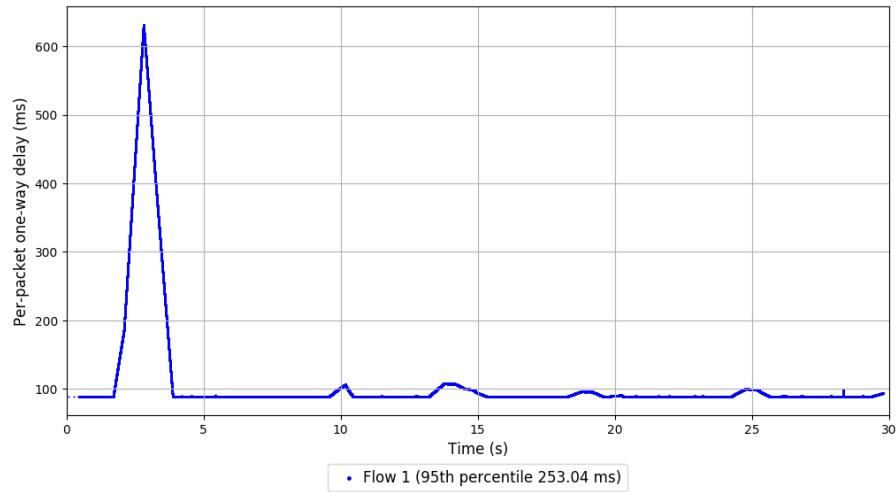
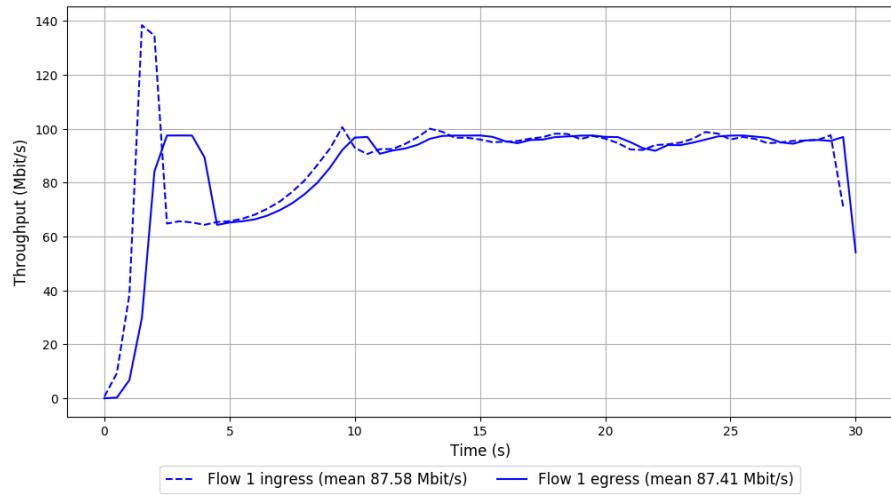


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-06-27 14:36:03
End at: 2019-06-27 14:36:33
Local clock offset: -6.559 ms
Remote clock offset: 107.591 ms

# Below is generated by plot.py at 2019-06-27 15:31:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.41 Mbit/s
95th percentile per-packet one-way delay: 253.041 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 87.41 Mbit/s
95th percentile per-packet one-way delay: 253.041 ms
Loss rate: 0.77%
```

Run 4: Report of PCC-Allegro — Data Link

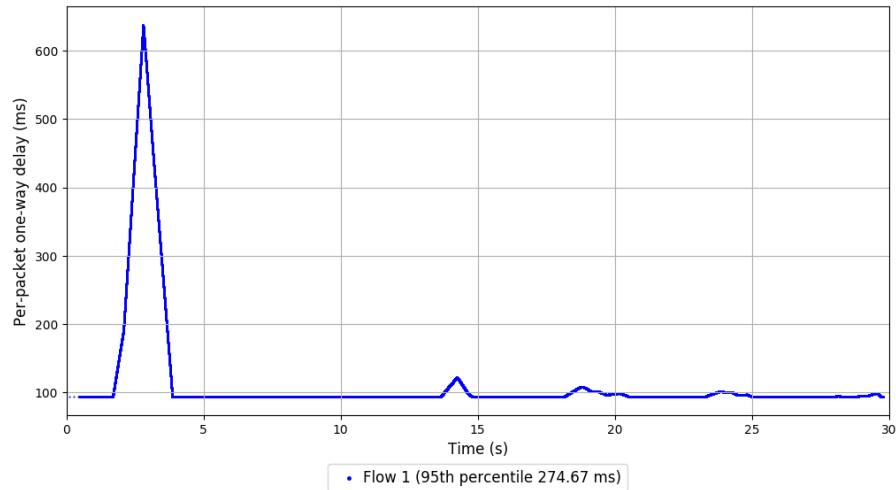
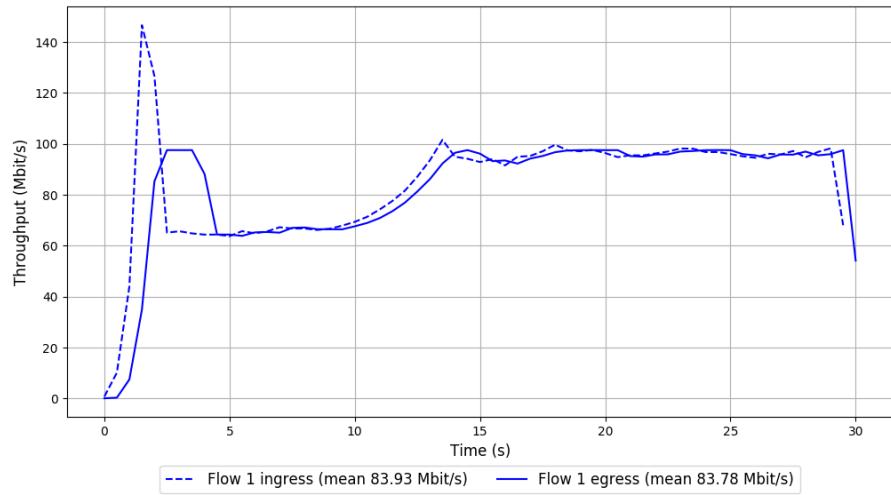


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-06-27 15:02:09
End at: 2019-06-27 15:02:39
Local clock offset: -6.777 ms
Remote clock offset: 106.071 ms

# Below is generated by plot.py at 2019-06-27 15:31:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.78 Mbit/s
95th percentile per-packet one-way delay: 274.672 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 83.78 Mbit/s
95th percentile per-packet one-way delay: 274.672 ms
Loss rate: 0.75%
```

Run 5: Report of PCC-Allegro — Data Link

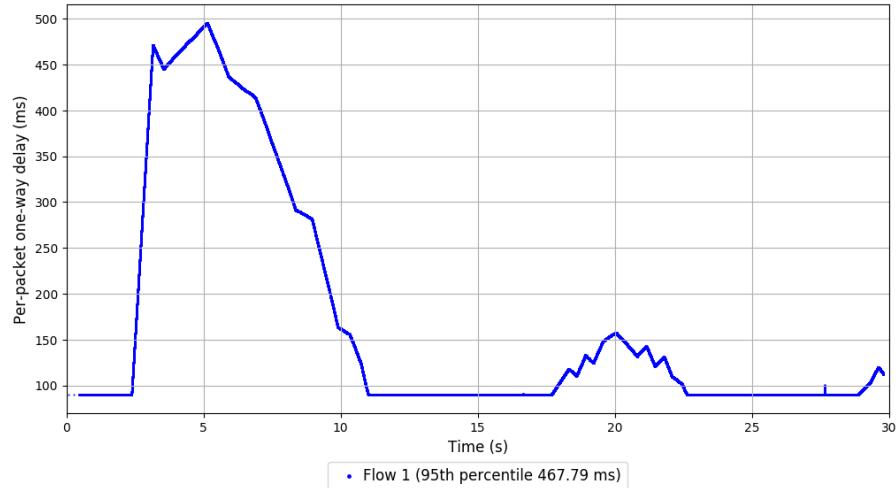
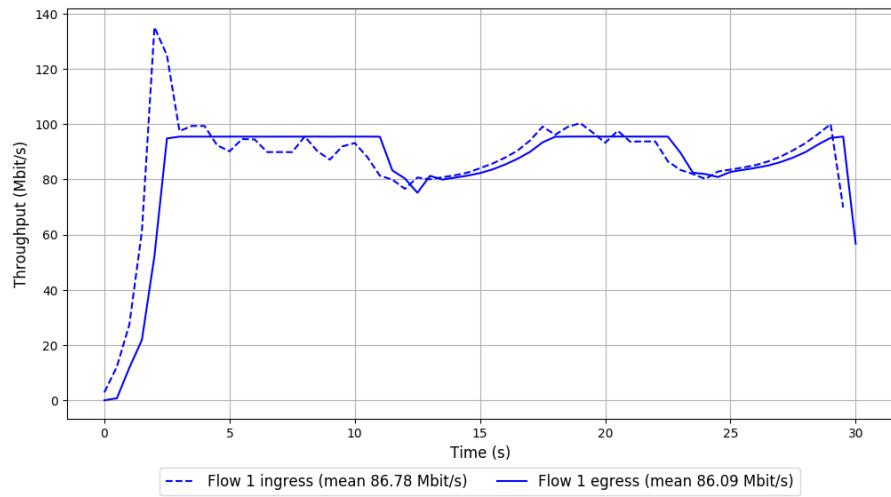


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-06-27 13:27:10
End at: 2019-06-27 13:27:40
Local clock offset: -5.856 ms
Remote clock offset: 98.372 ms

# Below is generated by plot.py at 2019-06-27 15:32:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.09 Mbit/s
95th percentile per-packet one-way delay: 467.791 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 86.09 Mbit/s
95th percentile per-packet one-way delay: 467.791 ms
Loss rate: 1.37%
```

Run 1: Report of PCC-Expr — Data Link

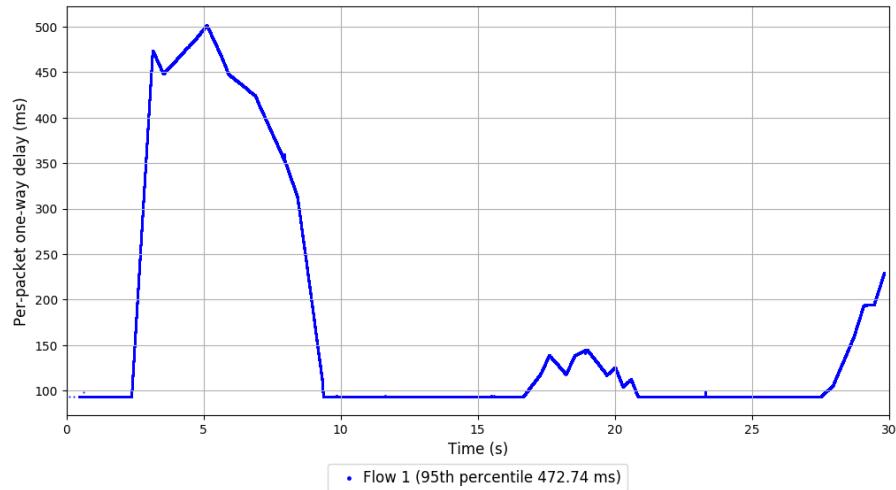
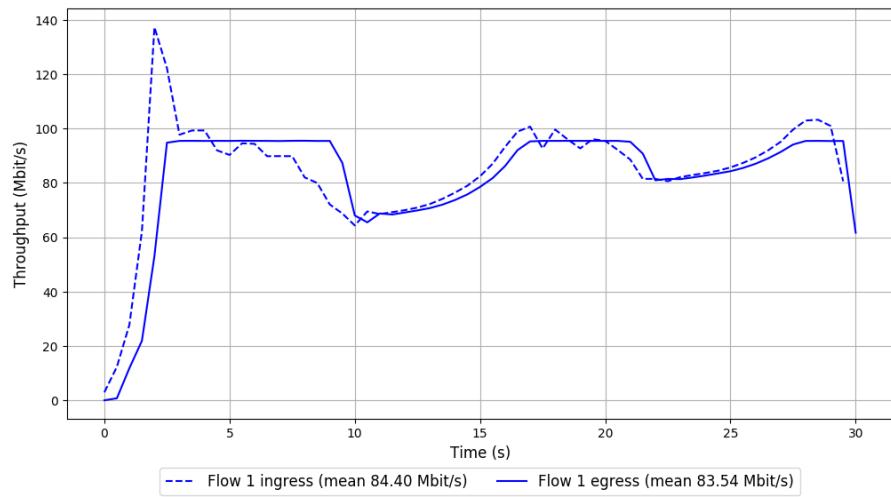


Run 2: Statistics of PCC-Expr

```
Start at: 2019-06-27 13:53:17
End at: 2019-06-27 13:53:48
Local clock offset: -7.152 ms
Remote clock offset: 97.912 ms

# Below is generated by plot.py at 2019-06-27 15:32:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 472.737 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 472.737 ms
Loss rate: 1.60%
```

Run 2: Report of PCC-Expr — Data Link

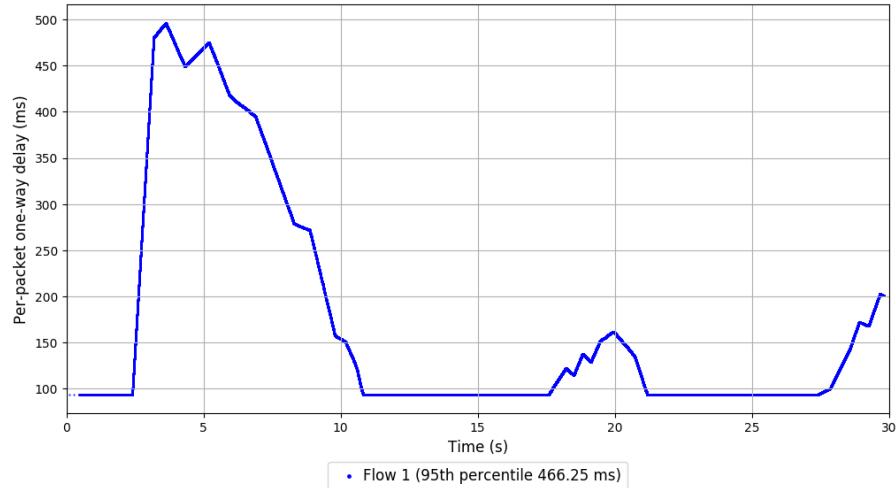
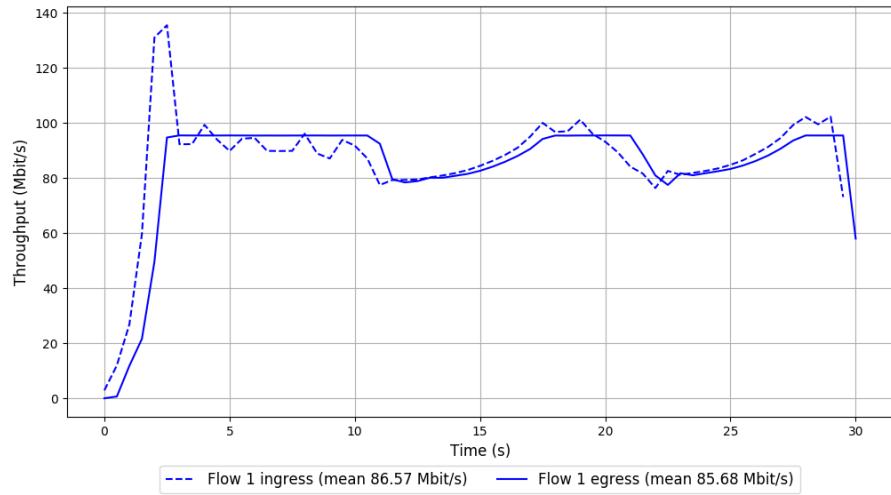


Run 3: Statistics of PCC-Expr

```
Start at: 2019-06-27 14:19:23
End at: 2019-06-27 14:19:53
Local clock offset: -7.011 ms
Remote clock offset: 101.504 ms

# Below is generated by plot.py at 2019-06-27 15:32:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.68 Mbit/s
95th percentile per-packet one-way delay: 466.254 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 85.68 Mbit/s
95th percentile per-packet one-way delay: 466.254 ms
Loss rate: 1.61%
```

Run 3: Report of PCC-Expr — Data Link

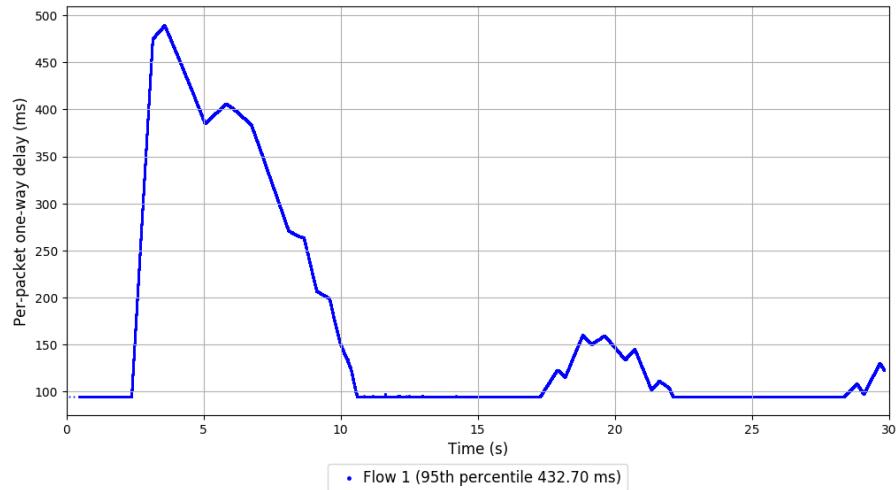
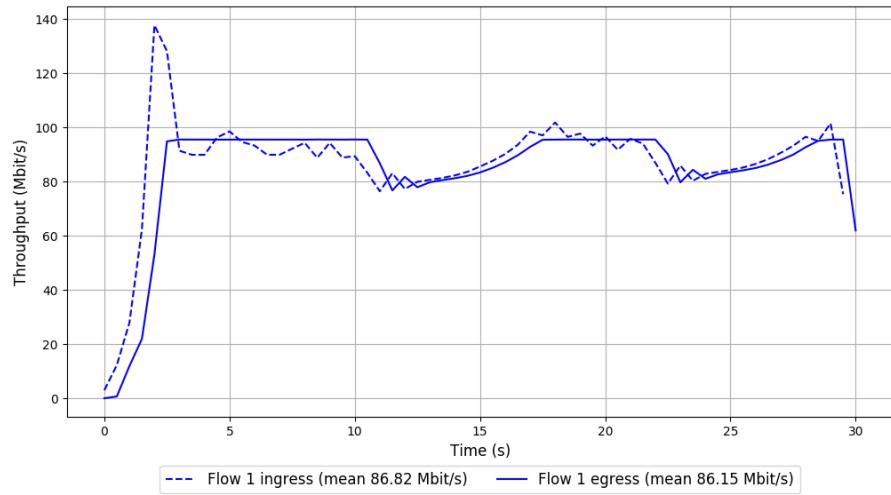


Run 4: Statistics of PCC-Expr

```
Start at: 2019-06-27 14:45:30
End at: 2019-06-27 14:46:00
Local clock offset: -5.588 ms
Remote clock offset: 103.928 ms

# Below is generated by plot.py at 2019-06-27 15:32:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.15 Mbit/s
95th percentile per-packet one-way delay: 432.698 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 86.15 Mbit/s
95th percentile per-packet one-way delay: 432.698 ms
Loss rate: 1.35%
```

Run 4: Report of PCC-Expr — Data Link

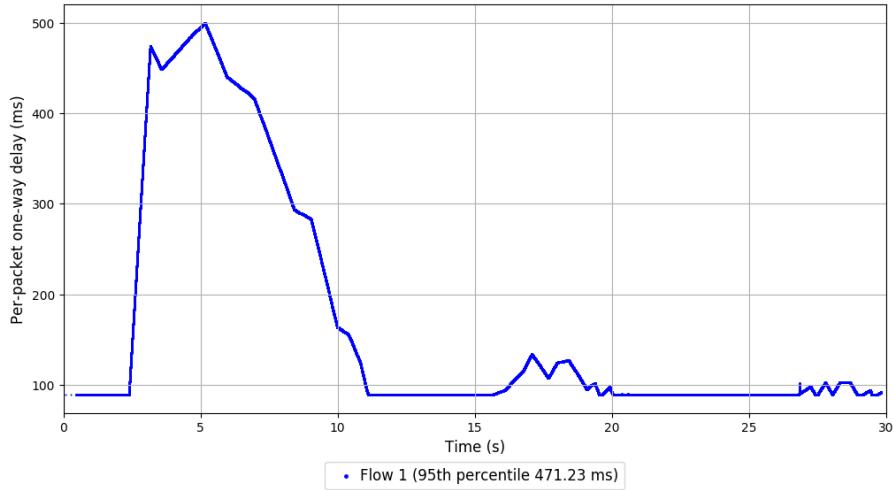
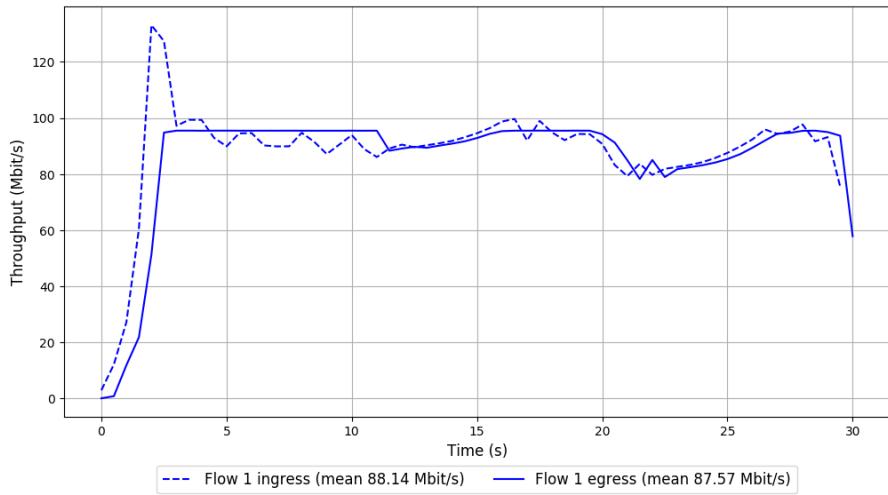


Run 5: Statistics of PCC-Expr

```
Start at: 2019-06-27 15:11:35
End at: 2019-06-27 15:12:05
Local clock offset: -6.808 ms
Remote clock offset: 112.531 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 471.227 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 471.227 ms
Loss rate: 1.22%
```

Run 5: Report of PCC-Expr — Data Link

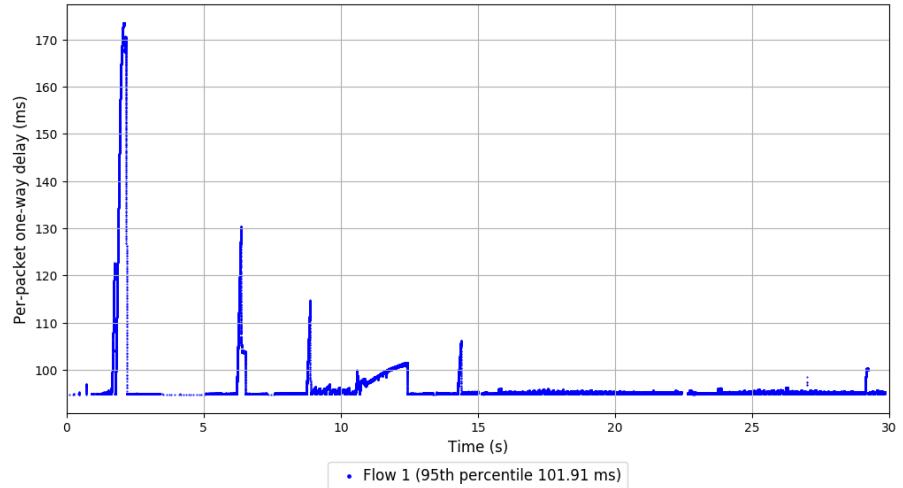
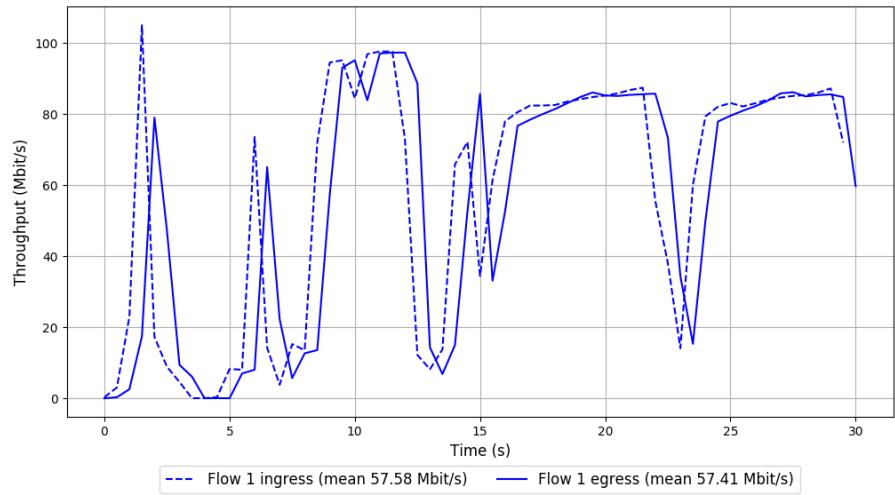


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-06-27 13:20:02
End at: 2019-06-27 13:20:32
Local clock offset: -5.275 ms
Remote clock offset: 92.11 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.41 Mbit/s
95th percentile per-packet one-way delay: 101.913 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 57.41 Mbit/s
95th percentile per-packet one-way delay: 101.913 ms
Loss rate: 0.87%
```

Run 1: Report of QUIC Cubic — Data Link

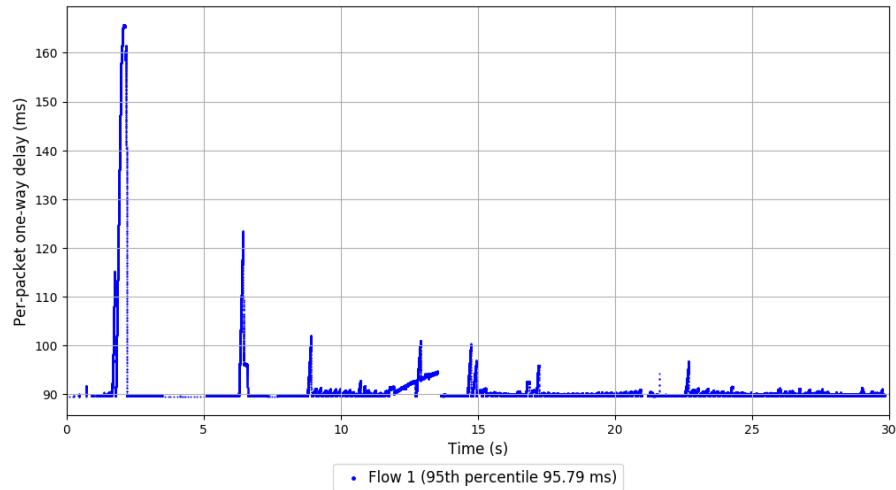
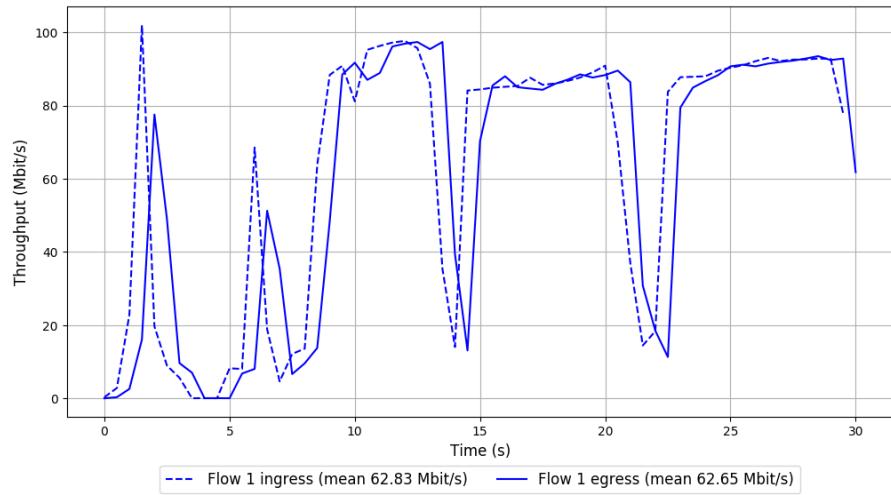


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-06-27 13:46:08
End at: 2019-06-27 13:46:38
Local clock offset: -7.098 ms
Remote clock offset: 100.866 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.65 Mbit/s
95th percentile per-packet one-way delay: 95.791 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 62.65 Mbit/s
95th percentile per-packet one-way delay: 95.791 ms
Loss rate: 0.87%
```

Run 2: Report of QUIC Cubic — Data Link

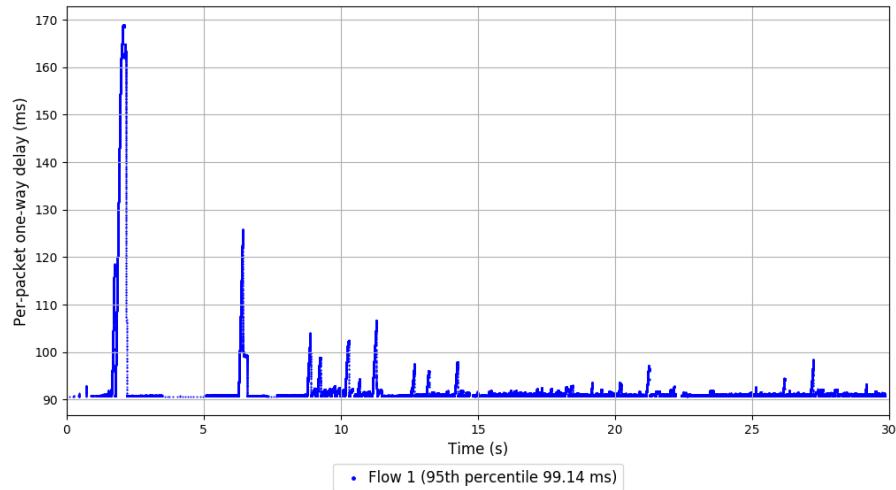
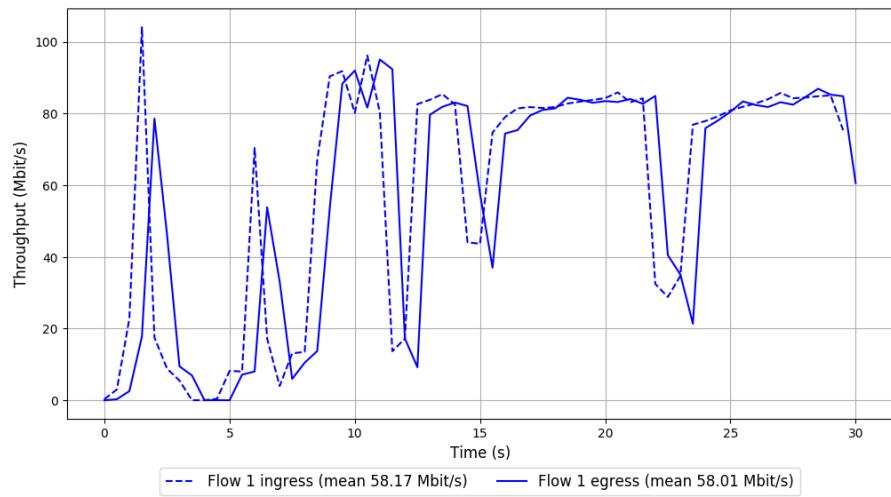


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-06-27 14:12:15
End at: 2019-06-27 14:12:45
Local clock offset: -7.314 ms
Remote clock offset: 103.023 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.01 Mbit/s
95th percentile per-packet one-way delay: 99.144 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 58.01 Mbit/s
95th percentile per-packet one-way delay: 99.144 ms
Loss rate: 0.86%
```

Run 3: Report of QUIC Cubic — Data Link

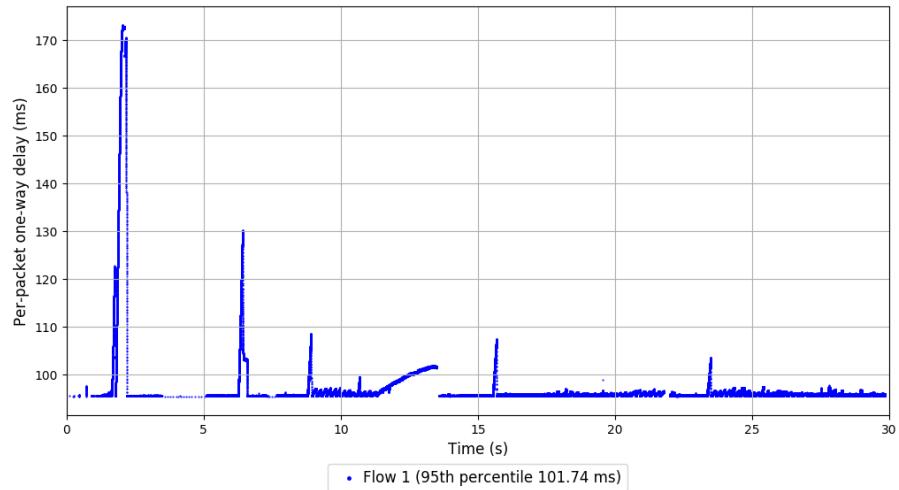
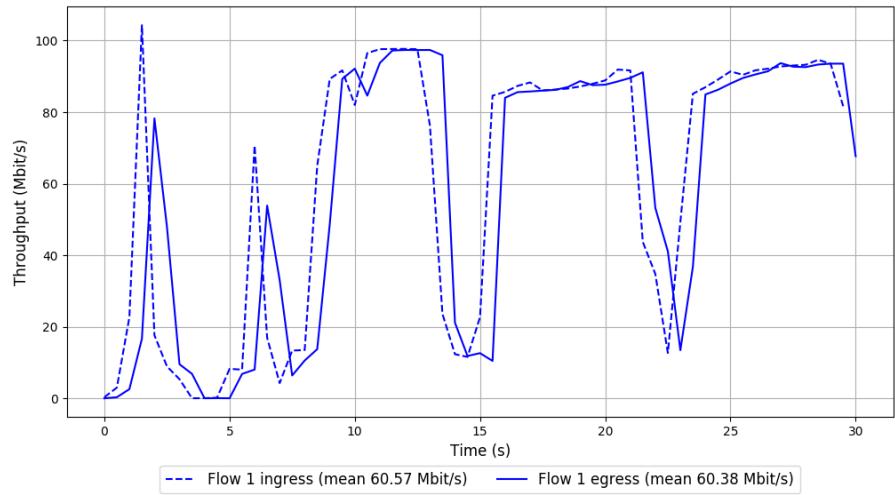


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-06-27 14:38:22
End at: 2019-06-27 14:38:52
Local clock offset: -5.468 ms
Remote clock offset: 102.778 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.38 Mbit/s
95th percentile per-packet one-way delay: 101.736 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 60.38 Mbit/s
95th percentile per-packet one-way delay: 101.736 ms
Loss rate: 0.91%
```

Run 4: Report of QUIC Cubic — Data Link

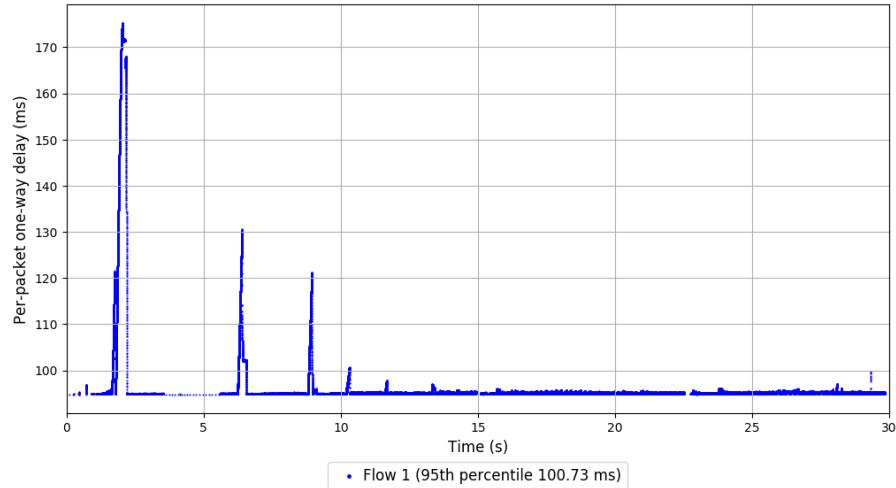
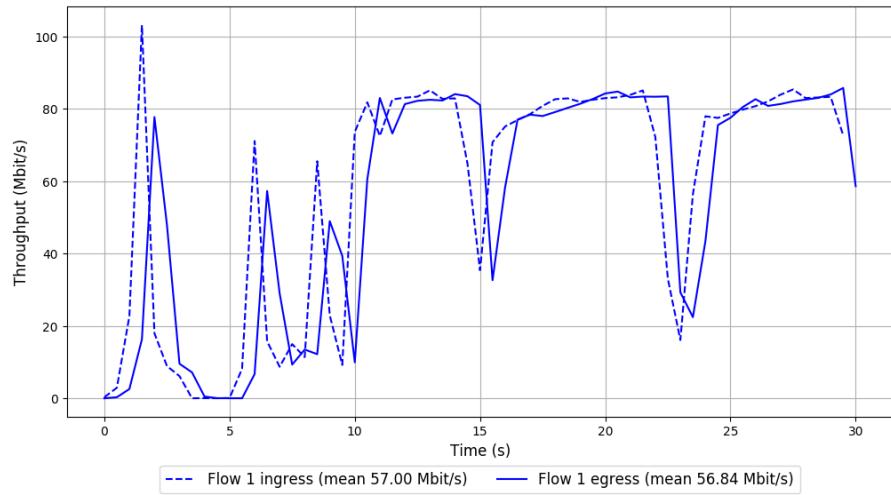


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-06-27 15:04:27
End at: 2019-06-27 15:04:57
Local clock offset: -6.23 ms
Remote clock offset: 106.467 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.84 Mbit/s
95th percentile per-packet one-way delay: 100.726 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 56.84 Mbit/s
95th percentile per-packet one-way delay: 100.726 ms
Loss rate: 0.86%
```

Run 5: Report of QUIC Cubic — Data Link

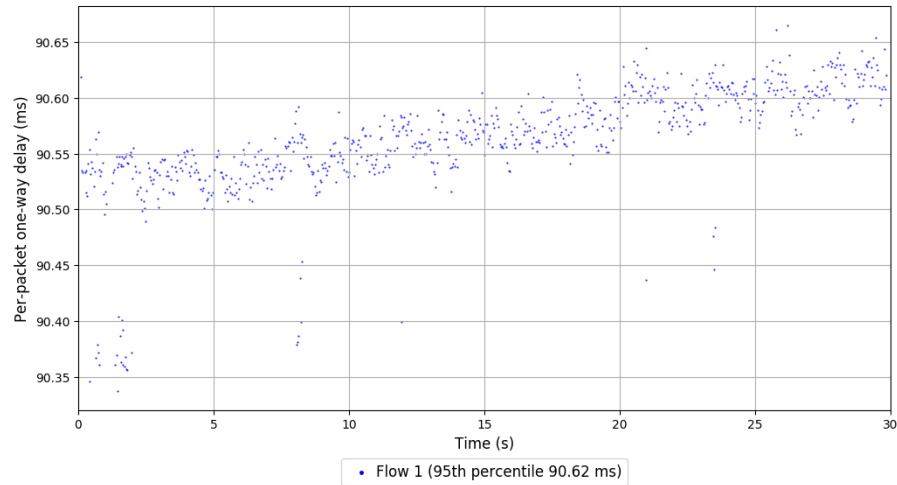
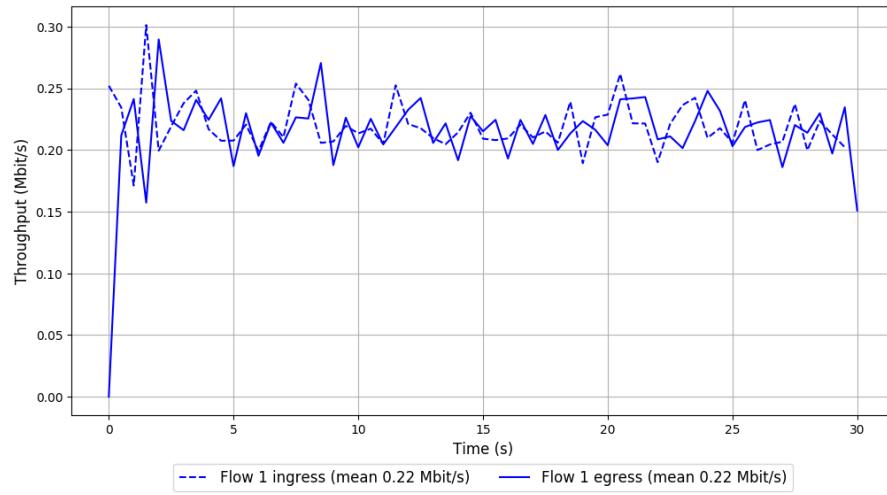


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-06-27 13:22:24
End at: 2019-06-27 13:22:54
Local clock offset: -5.518 ms
Remote clock offset: 97.484 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.623 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.623 ms
Loss rate: 0.64%
```

Run 1: Report of SCReAM — Data Link

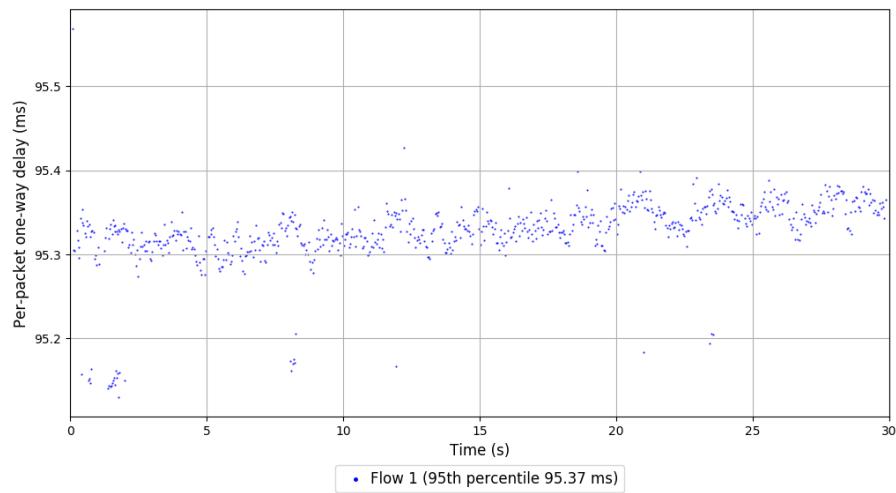
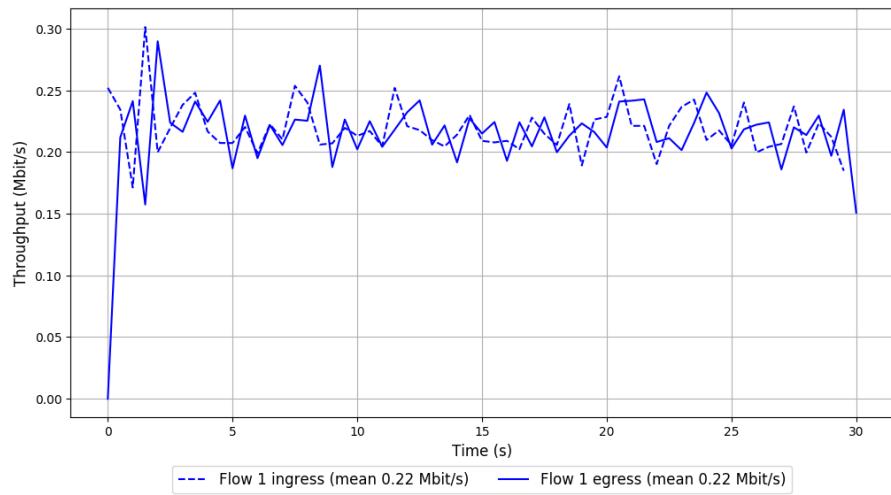


Run 2: Statistics of SCReAM

```
Start at: 2019-06-27 13:48:31
End at: 2019-06-27 13:49:01
Local clock offset: -6.381 ms
Remote clock offset: 95.837 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.372 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.372 ms
Loss rate: 0.51%
```

Run 2: Report of SCReAM — Data Link

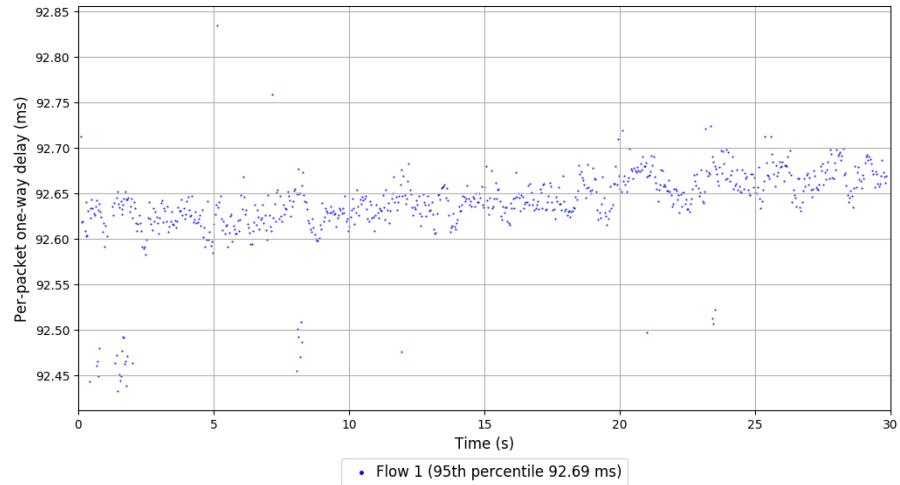
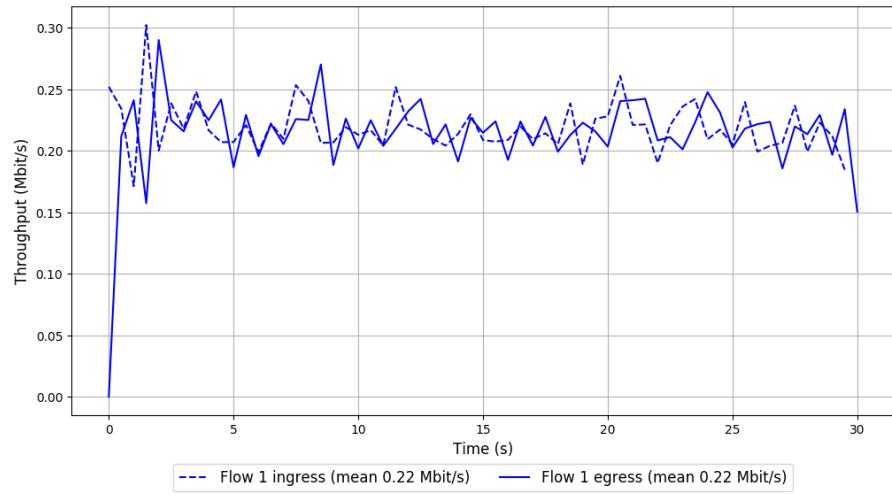


Run 3: Statistics of SCReAM

```
Start at: 2019-06-27 14:14:38
End at: 2019-06-27 14:15:08
Local clock offset: -7.317 ms
Remote clock offset: 100.849 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.685 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.685 ms
Loss rate: 0.51%
```

Run 3: Report of SCReAM — Data Link

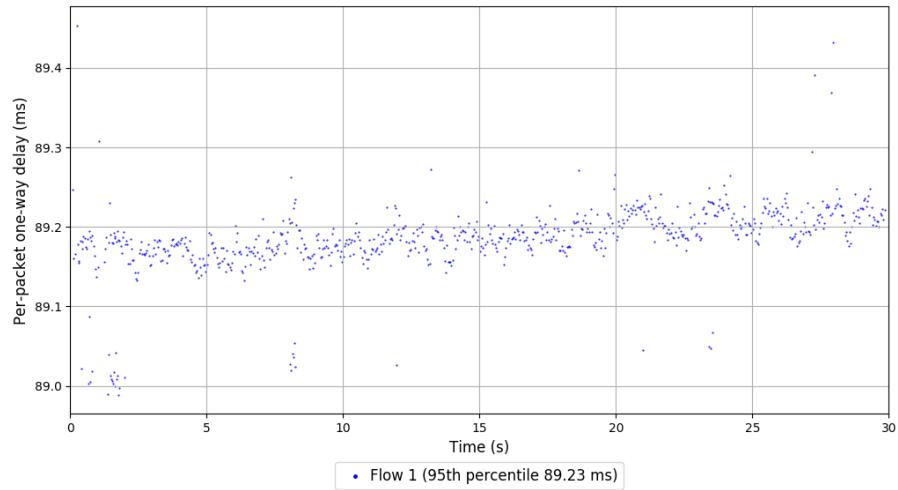
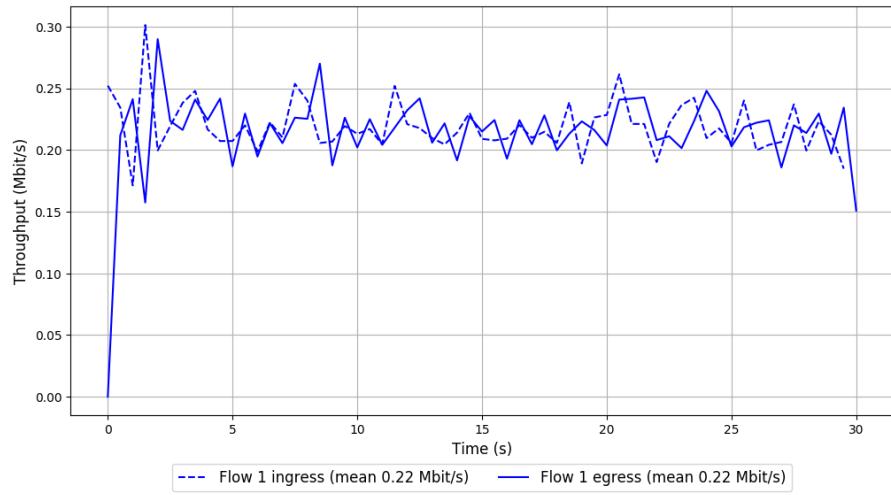


Run 4: Statistics of SCReAM

```
Start at: 2019-06-27 14:40:44
End at: 2019-06-27 14:41:14
Local clock offset: -6.253 ms
Remote clock offset: 108.304 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.231 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.231 ms
Loss rate: 0.51%
```

Run 4: Report of SCReAM — Data Link

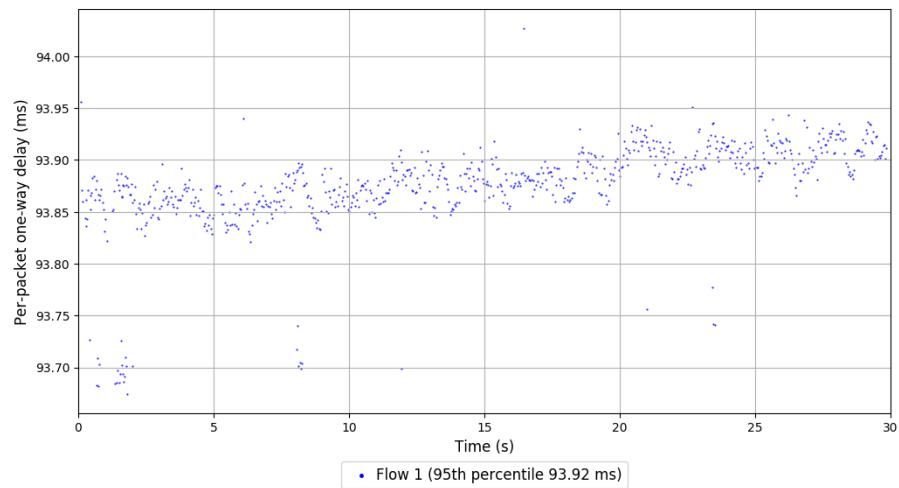
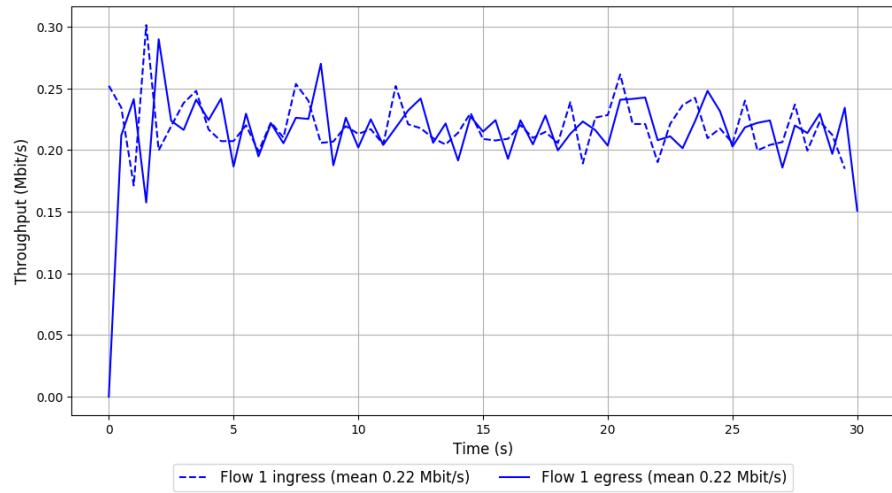


Run 5: Statistics of SCReAM

```
Start at: 2019-06-27 15:06:49
End at: 2019-06-27 15:07:19
Local clock offset: -6.951 ms
Remote clock offset: 106.788 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.925 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.925 ms
Loss rate: 0.51%
```

Run 5: Report of SCReAM — Data Link

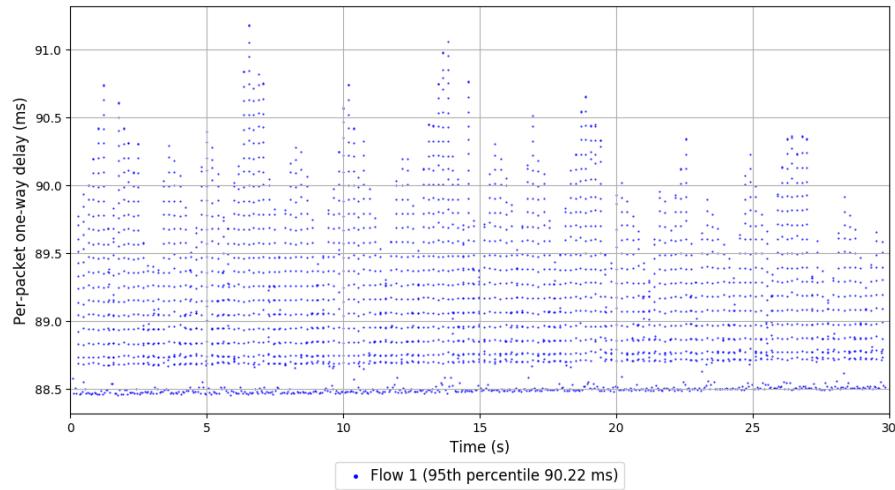
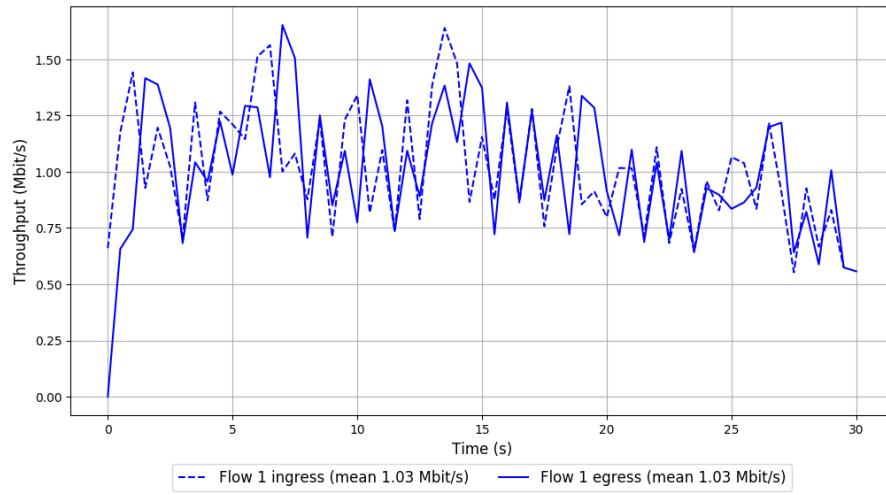


Run 1: Statistics of Sprout

```
Start at: 2019-06-27 13:10:38
End at: 2019-06-27 13:11:08
Local clock offset: -6.225 ms
Remote clock offset: 96.171 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 90.224 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 90.224 ms
Loss rate: 0.45%
```

Run 1: Report of Sprout — Data Link

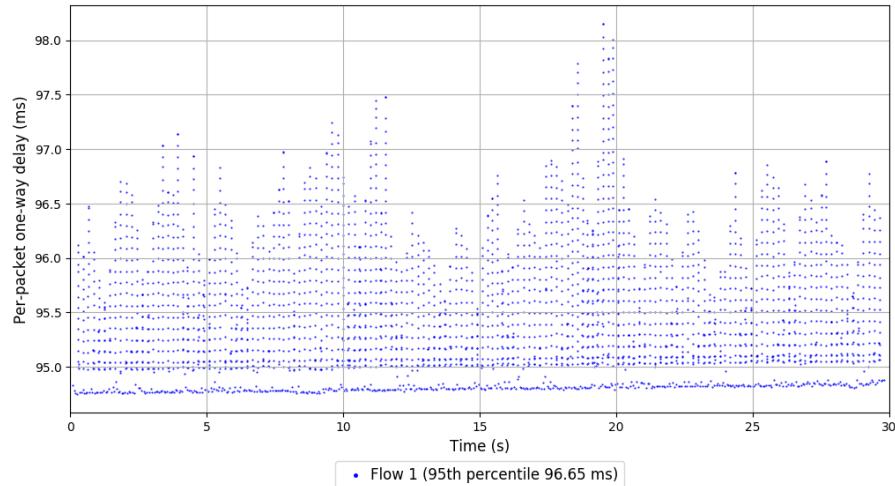
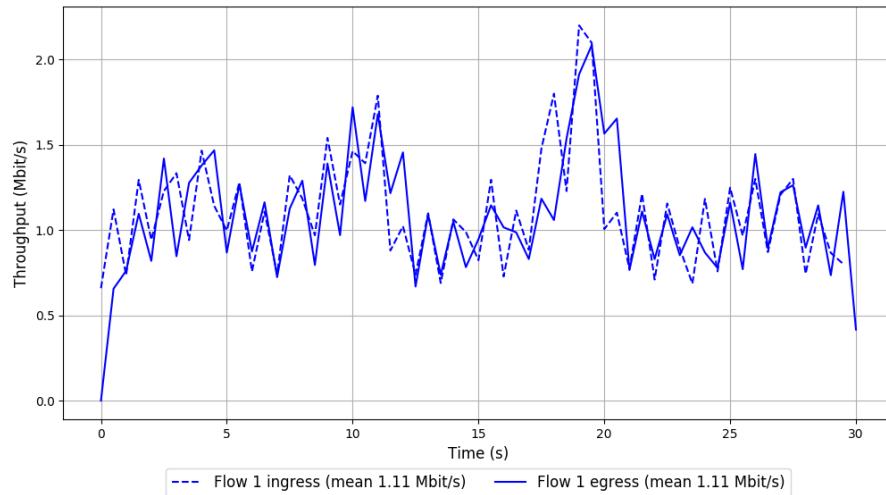


Run 2: Statistics of Sprout

```
Start at: 2019-06-27 13:36:44
End at: 2019-06-27 13:37:14
Local clock offset: -6.952 ms
Remote clock offset: 94.317 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 96.646 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 96.646 ms
Loss rate: 0.58%
```

Run 2: Report of Sprout — Data Link

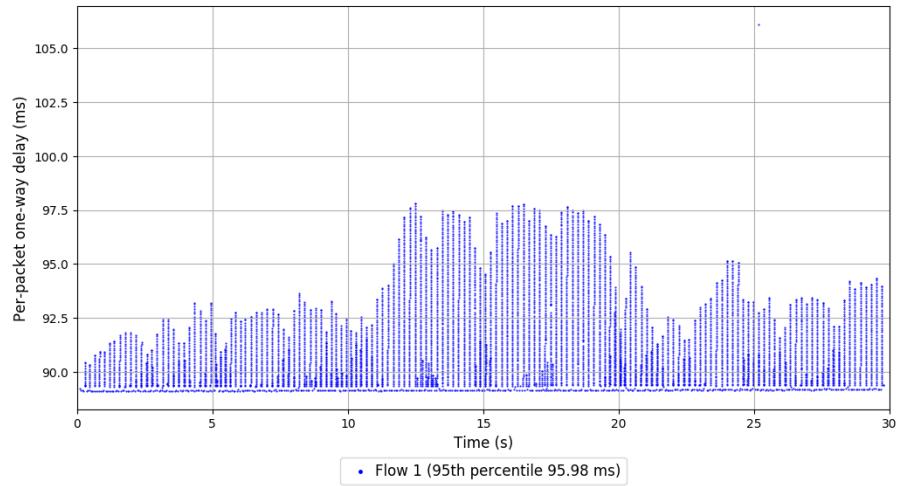
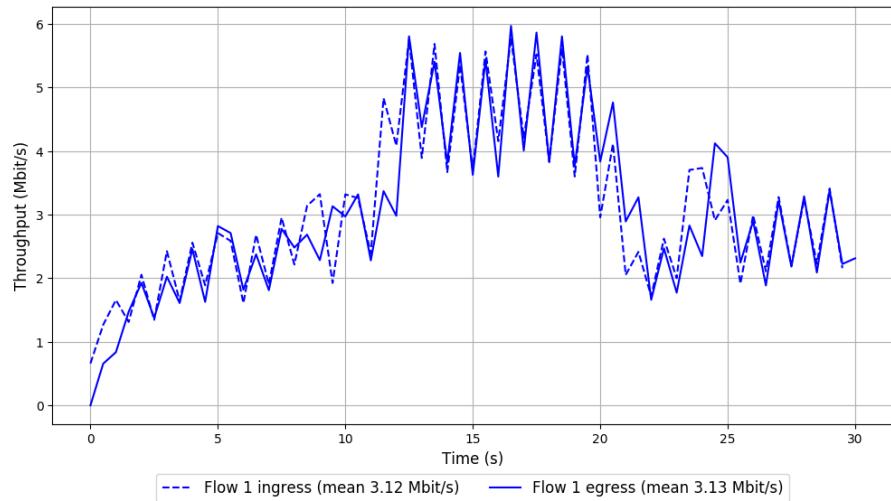


Run 3: Statistics of Sprout

```
Start at: 2019-06-27 14:02:52
End at: 2019-06-27 14:03:22
Local clock offset: -6.323 ms
Remote clock offset: 104.193 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 95.980 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 95.980 ms
Loss rate: 0.56%
```

Run 3: Report of Sprout — Data Link

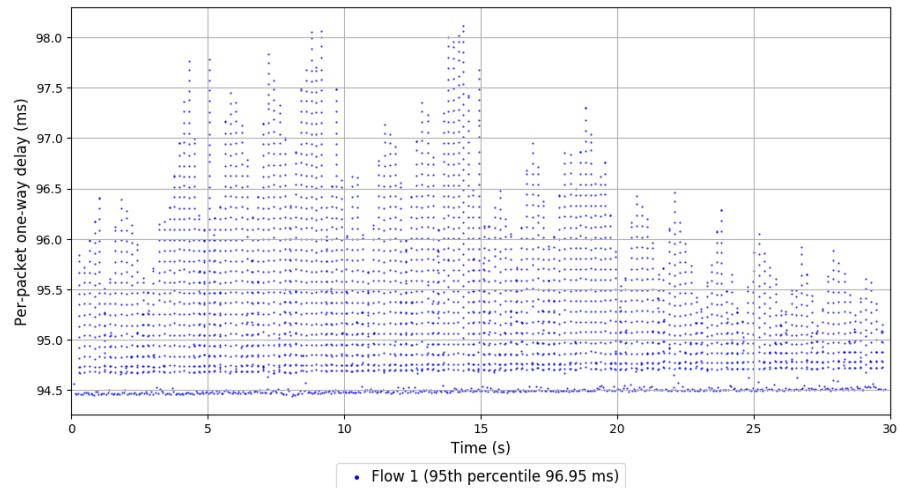
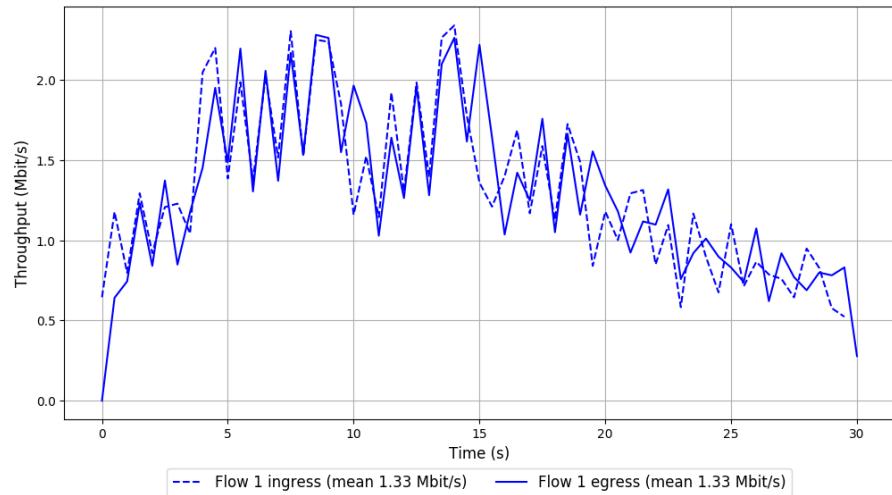


Run 4: Statistics of Sprout

```
Start at: 2019-06-27 14:28:58
End at: 2019-06-27 14:29:28
Local clock offset: -5.761 ms
Remote clock offset: 101.707 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 96.954 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 96.954 ms
Loss rate: 0.31%
```

Run 4: Report of Sprout — Data Link

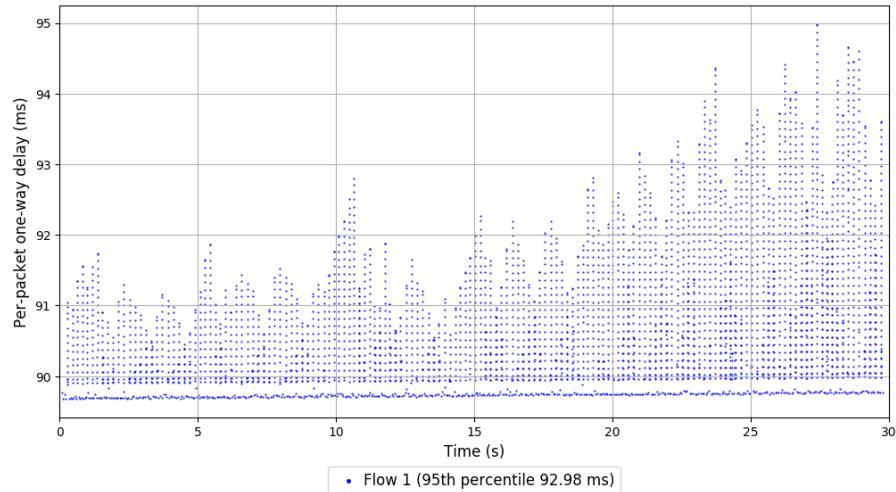
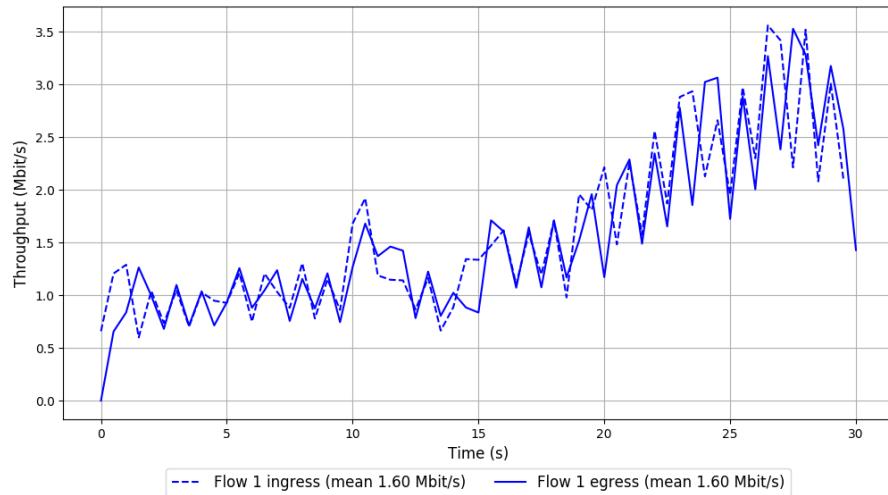


Run 5: Statistics of Sprout

```
Start at: 2019-06-27 14:55:04
End at: 2019-06-27 14:55:34
Local clock offset: -6.707 ms
Remote clock offset: 109.219 ms

# Below is generated by plot.py at 2019-06-27 15:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 92.977 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 92.977 ms
Loss rate: 1.16%
```

Run 5: Report of Sprout — Data Link

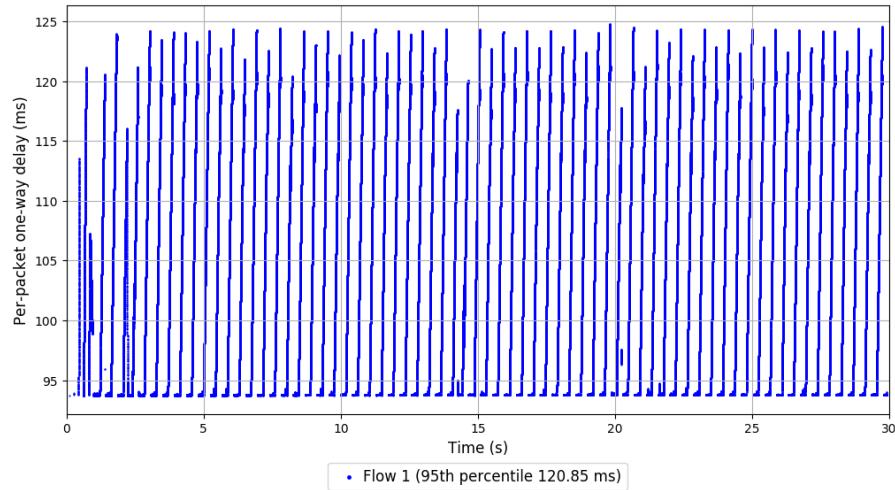
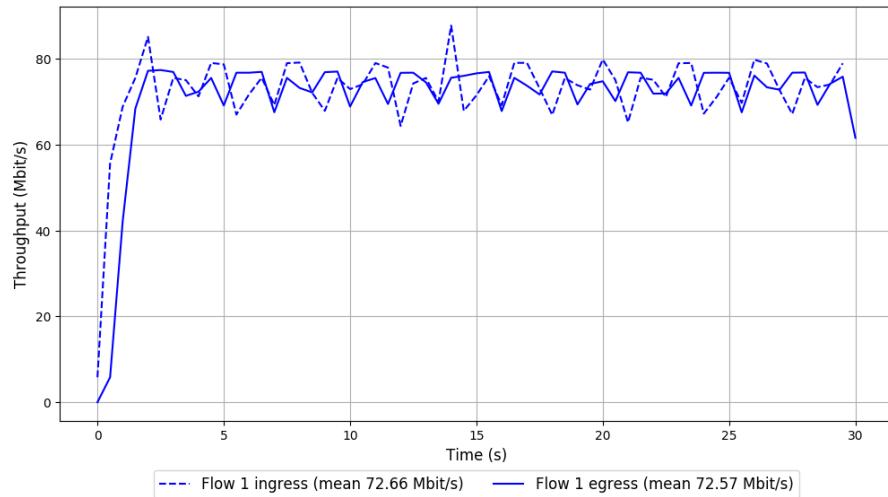


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-06-27 13:14:05
End at: 2019-06-27 13:14:35
Local clock offset: -5.886 ms
Remote clock offset: 92.396 ms

# Below is generated by plot.py at 2019-06-27 15:33:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.57 Mbit/s
95th percentile per-packet one-way delay: 120.852 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 72.57 Mbit/s
95th percentile per-packet one-way delay: 120.852 ms
Loss rate: 0.69%
```

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

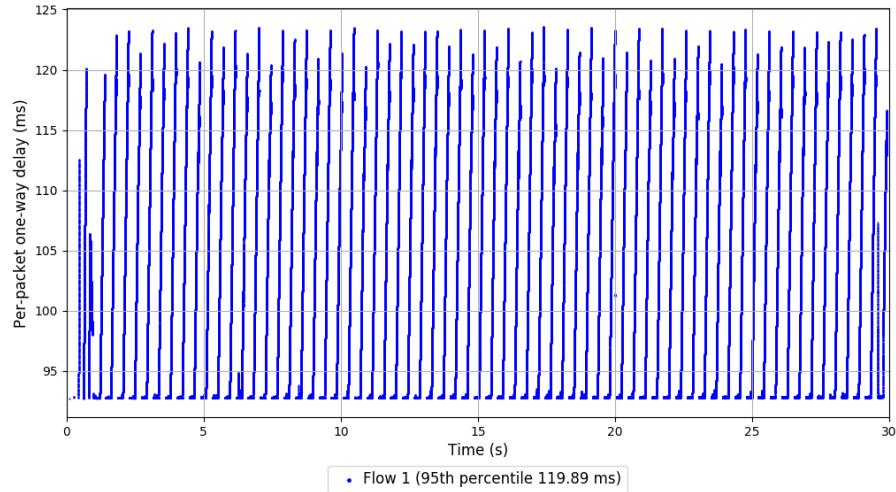
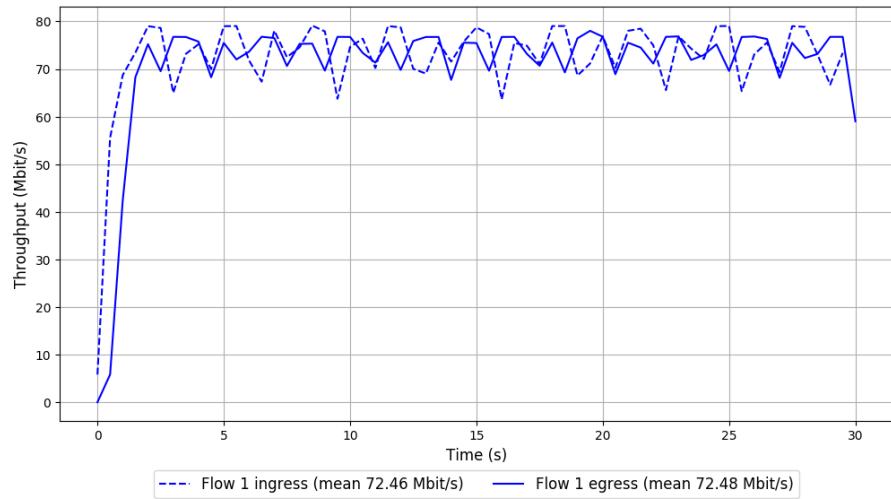


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-06-27 13:40:11
End at: 2019-06-27 13:40:41
Local clock offset: -7.089 ms
Remote clock offset: 96.19 ms

# Below is generated by plot.py at 2019-06-27 15:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.48 Mbit/s
95th percentile per-packet one-way delay: 119.888 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 72.48 Mbit/s
95th percentile per-packet one-way delay: 119.888 ms
Loss rate: 0.55%
```

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

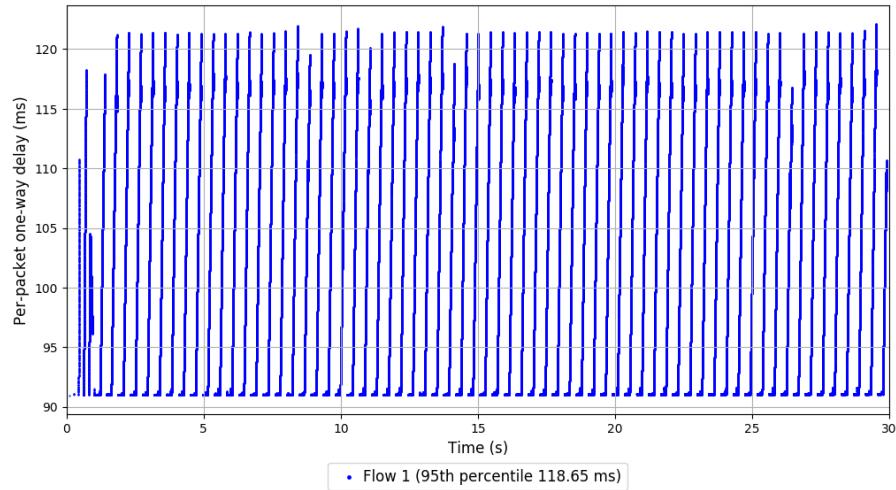
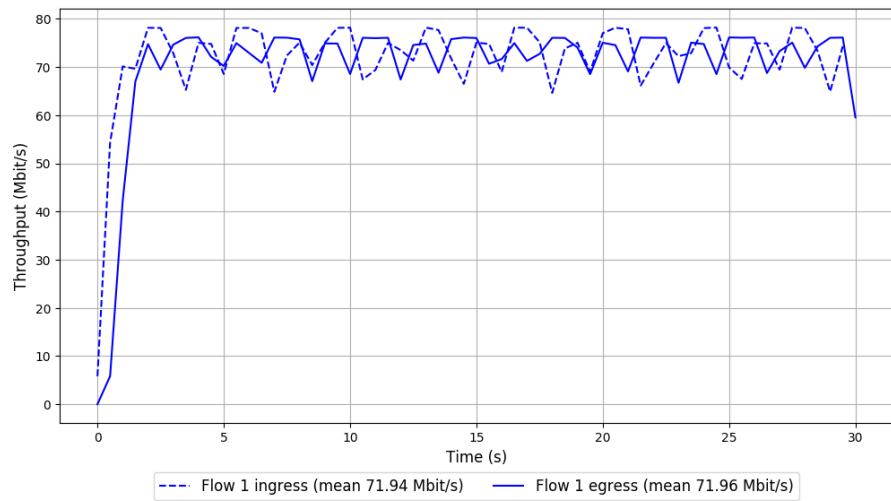


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-06-27 14:06:18
End at: 2019-06-27 14:06:48
Local clock offset: -6.543 ms
Remote clock offset: 102.452 ms

# Below is generated by plot.py at 2019-06-27 15:34:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.96 Mbit/s
95th percentile per-packet one-way delay: 118.646 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 71.96 Mbit/s
95th percentile per-packet one-way delay: 118.646 ms
Loss rate: 0.55%
```

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

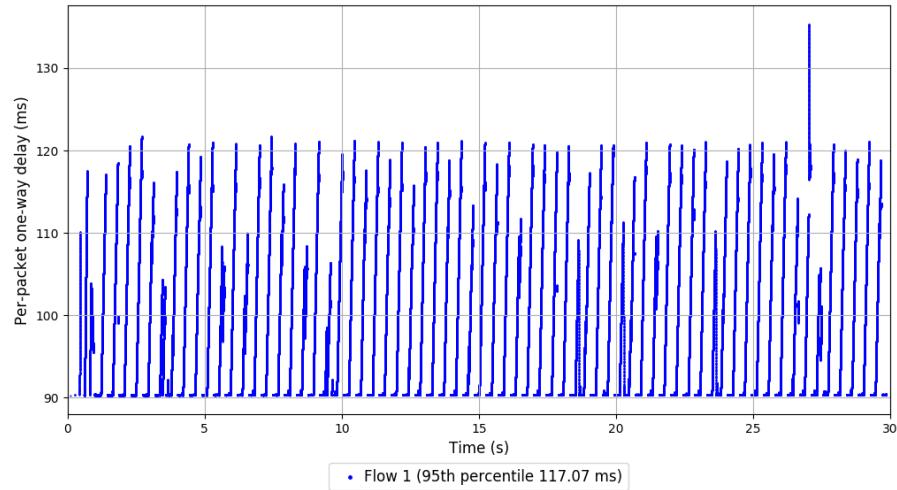
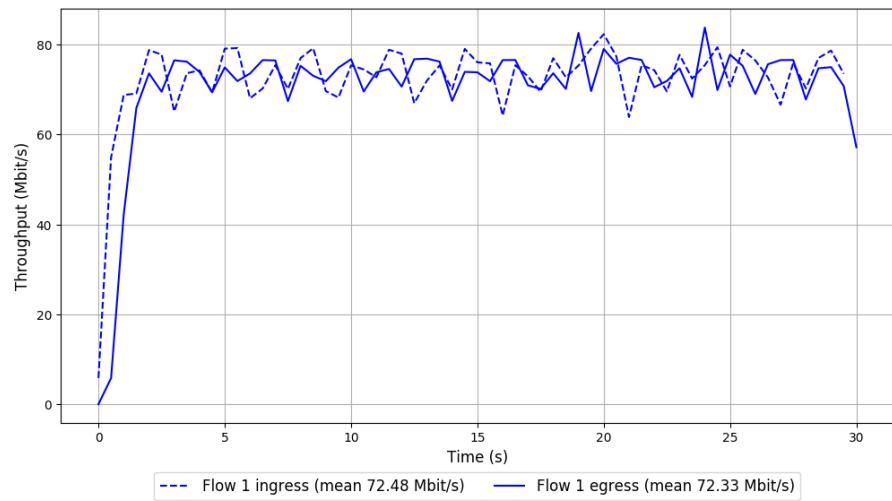


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-06-27 14:32:24
End at: 2019-06-27 14:32:54
Local clock offset: -5.644 ms
Remote clock offset: 107.195 ms

# Below is generated by plot.py at 2019-06-27 15:34:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.33 Mbit/s
95th percentile per-packet one-way delay: 117.073 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 72.33 Mbit/s
95th percentile per-packet one-way delay: 117.073 ms
Loss rate: 0.87%
```

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

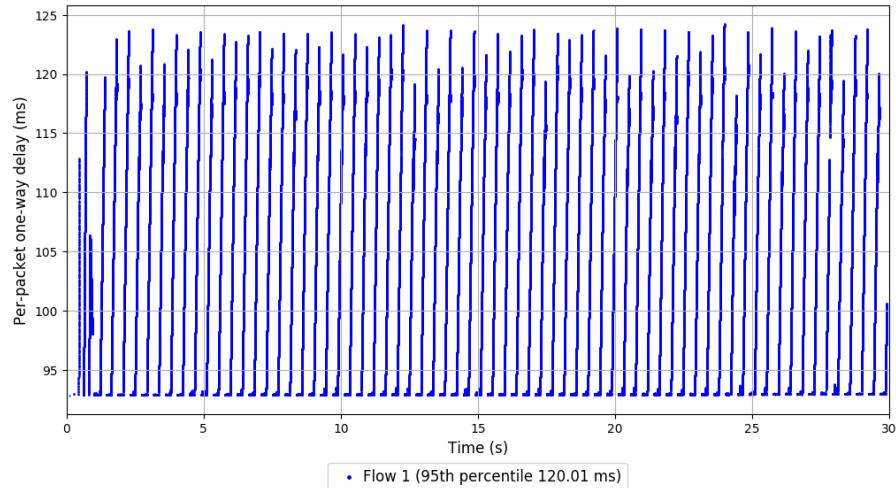
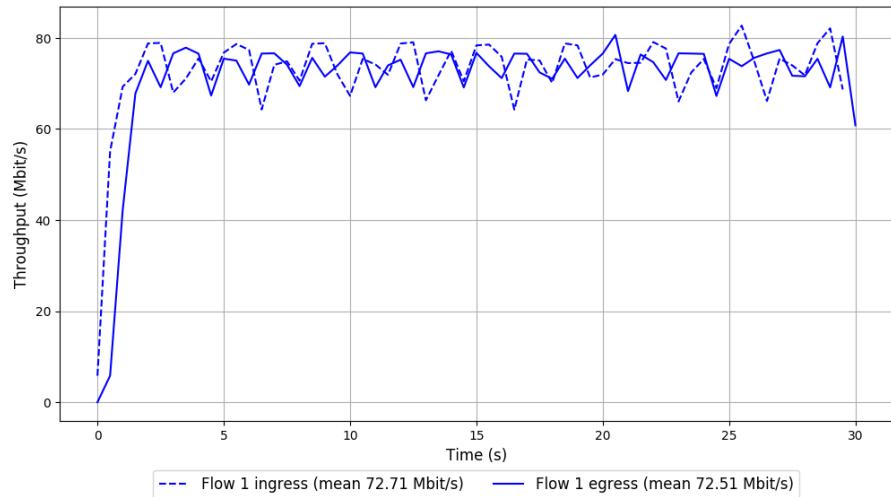


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-06-27 14:58:31
End at: 2019-06-27 14:59:01
Local clock offset: -6.601 ms
Remote clock offset: 106.853 ms

# Below is generated by plot.py at 2019-06-27 15:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.51 Mbit/s
95th percentile per-packet one-way delay: 120.014 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 72.51 Mbit/s
95th percentile per-packet one-way delay: 120.014 ms
Loss rate: 0.72%
```

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

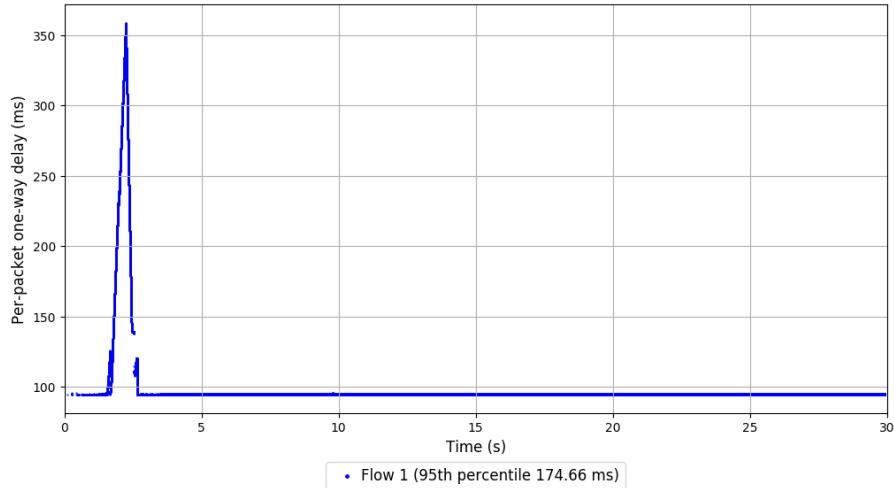
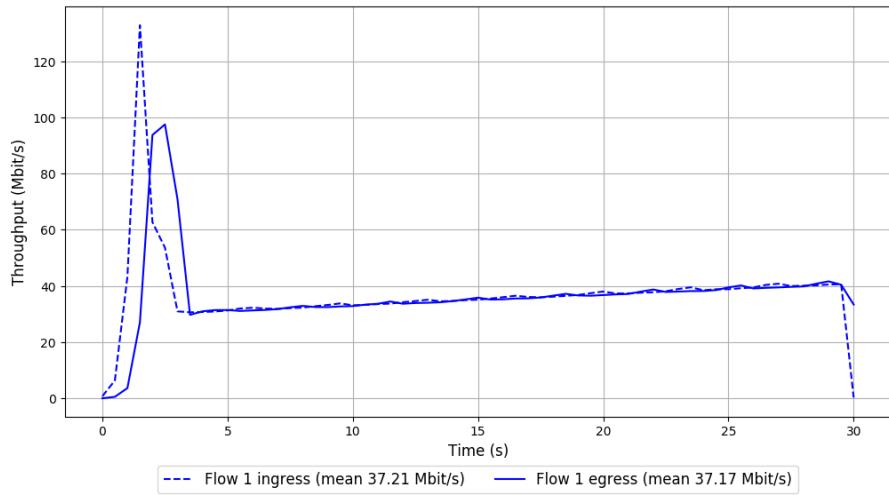


Run 1: Statistics of TCP Vegas

```
Start at: 2019-06-27 13:11:46
End at: 2019-06-27 13:12:16
Local clock offset: -5.955 ms
Remote clock offset: 91.162 ms

# Below is generated by plot.py at 2019-06-27 15:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.17 Mbit/s
95th percentile per-packet one-way delay: 174.656 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 37.17 Mbit/s
95th percentile per-packet one-way delay: 174.656 ms
Loss rate: 0.67%
```

Run 1: Report of TCP Vegas — Data Link

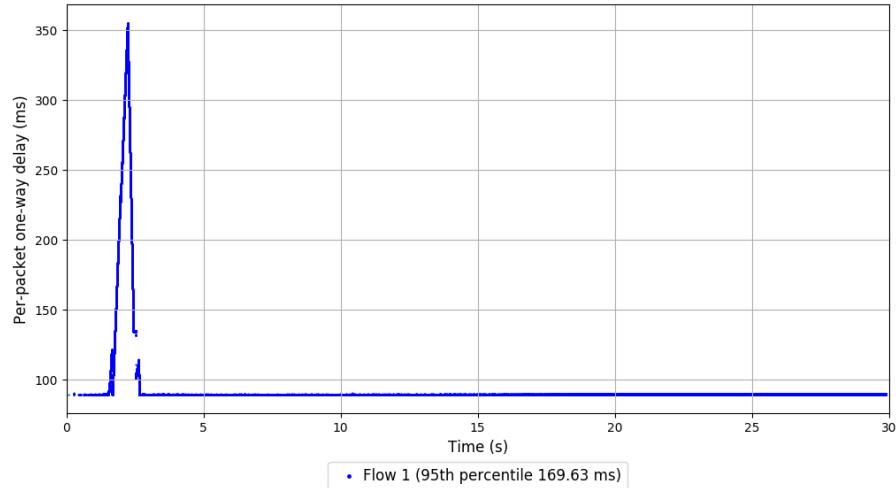
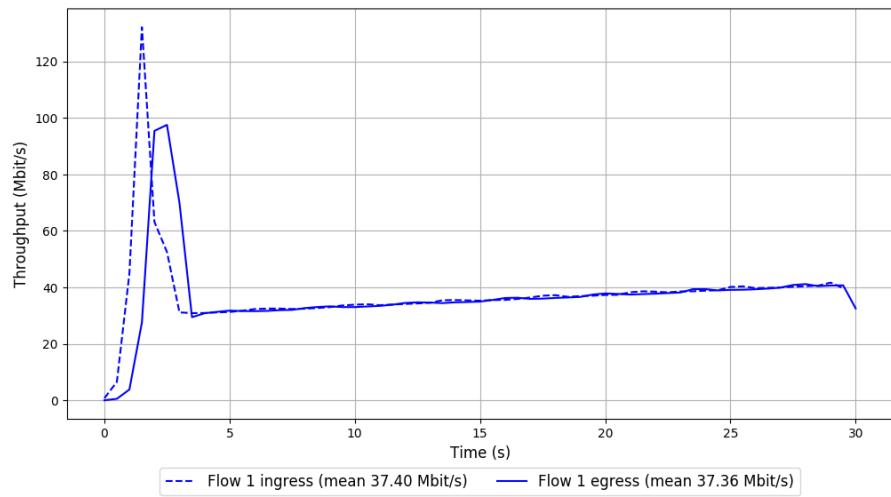


Run 2: Statistics of TCP Vegas

```
Start at: 2019-06-27 13:37:52
End at: 2019-06-27 13:38:22
Local clock offset: -6.44 ms
Remote clock offset: 99.992 ms

# Below is generated by plot.py at 2019-06-27 15:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.36 Mbit/s
95th percentile per-packet one-way delay: 169.633 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 37.36 Mbit/s
95th percentile per-packet one-way delay: 169.633 ms
Loss rate: 0.67%
```

Run 2: Report of TCP Vegas — Data Link

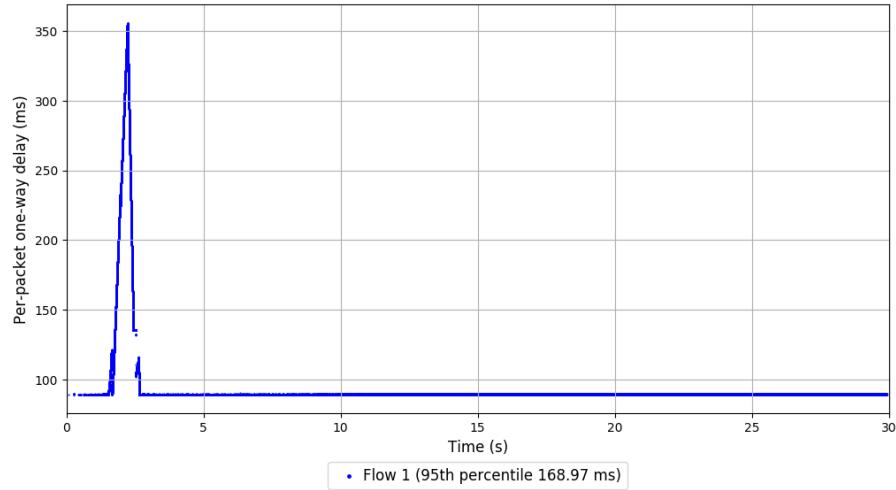
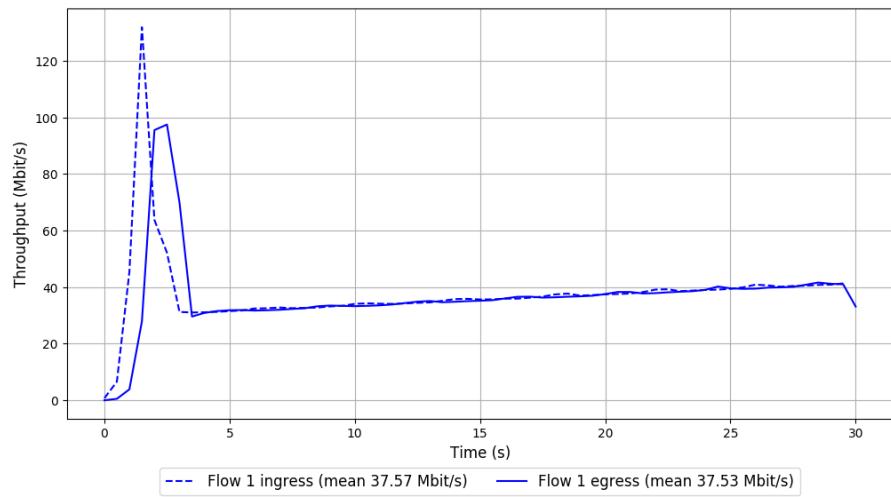


Run 3: Statistics of TCP Vegas

```
Start at: 2019-06-27 14:04:00
End at: 2019-06-27 14:04:30
Local clock offset: -7.299 ms
Remote clock offset: 103.216 ms

# Below is generated by plot.py at 2019-06-27 15:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 168.966 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 168.966 ms
Loss rate: 0.67%
```

Run 3: Report of TCP Vegas — Data Link

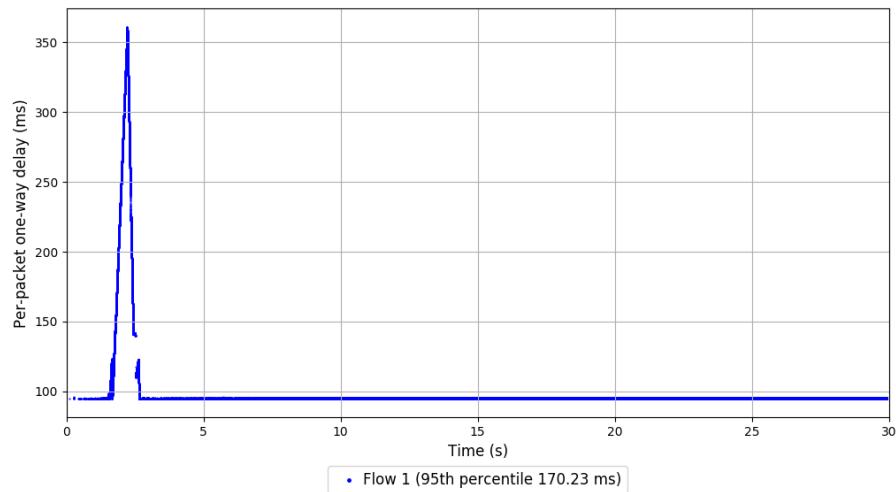
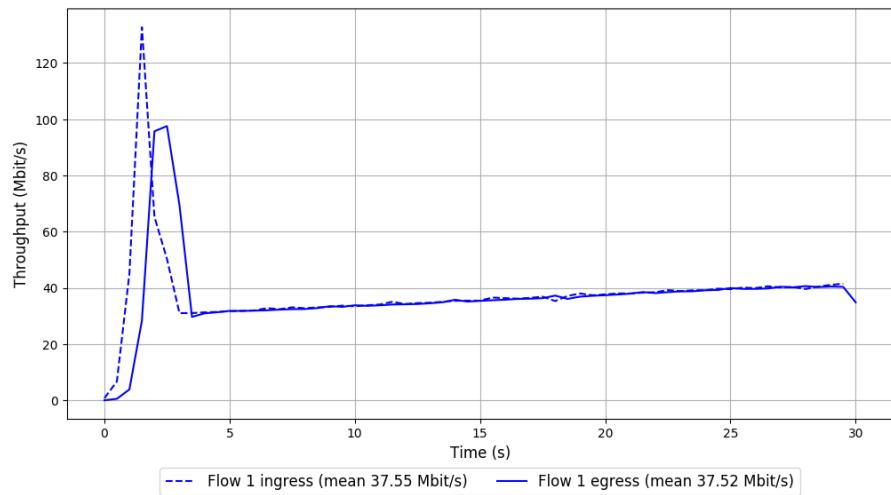


Run 4: Statistics of TCP Vegas

```
Start at: 2019-06-27 14:30:05
End at: 2019-06-27 14:30:35
Local clock offset: -6.432 ms
Remote clock offset: 101.698 ms

# Below is generated by plot.py at 2019-06-27 15:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.52 Mbit/s
95th percentile per-packet one-way delay: 170.228 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 37.52 Mbit/s
95th percentile per-packet one-way delay: 170.228 ms
Loss rate: 0.65%
```

Run 4: Report of TCP Vegas — Data Link

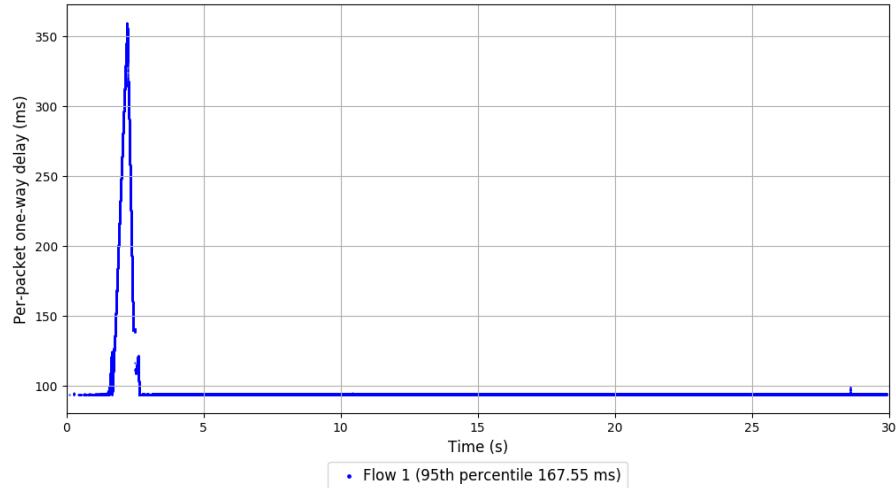
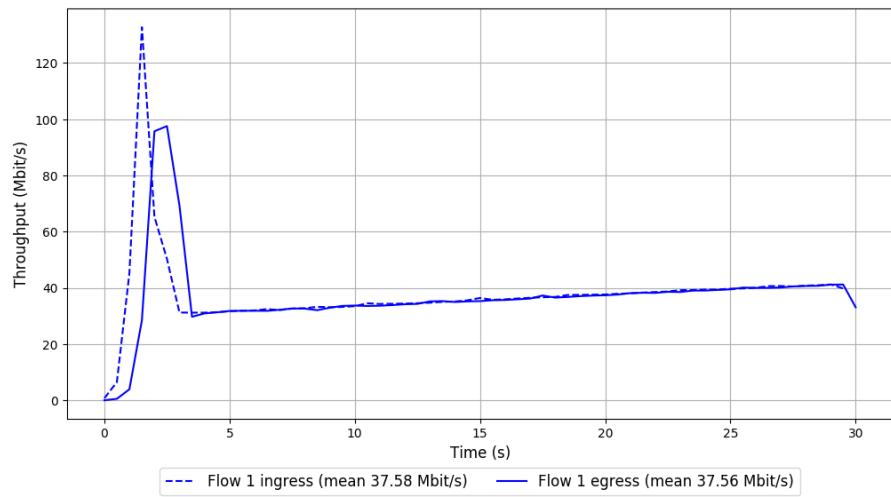


Run 5: Statistics of TCP Vegas

```
Start at: 2019-06-27 14:56:12
End at: 2019-06-27 14:56:42
Local clock offset: -6.741 ms
Remote clock offset: 106.306 ms

# Below is generated by plot.py at 2019-06-27 15:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.56 Mbit/s
95th percentile per-packet one-way delay: 167.552 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 37.56 Mbit/s
95th percentile per-packet one-way delay: 167.552 ms
Loss rate: 0.65%
```

Run 5: Report of TCP Vegas — Data Link

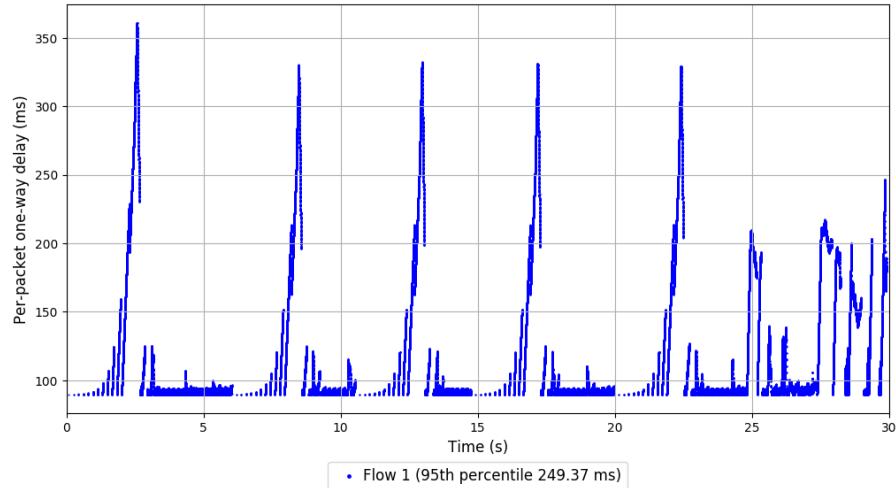
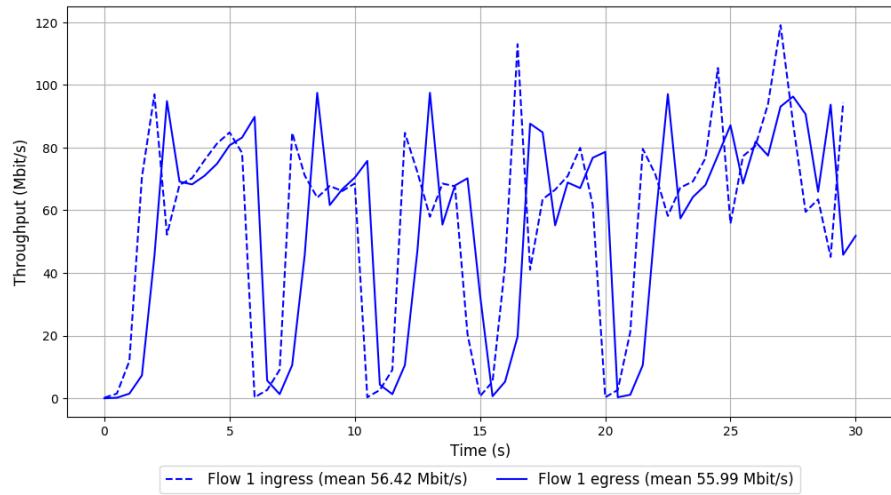


Run 1: Statistics of Verus

```
Start at: 2019-06-27 13:16:32
End at: 2019-06-27 13:17:02
Local clock offset: -6.049 ms
Remote clock offset: 96.857 ms

# Below is generated by plot.py at 2019-06-27 15:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.99 Mbit/s
95th percentile per-packet one-way delay: 249.374 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 55.99 Mbit/s
95th percentile per-packet one-way delay: 249.374 ms
Loss rate: 1.33%
```

Run 1: Report of Verus — Data Link

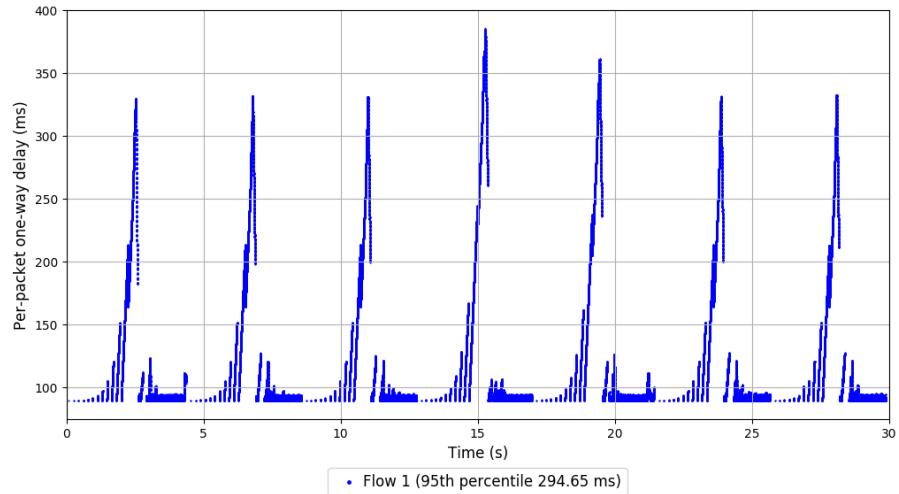
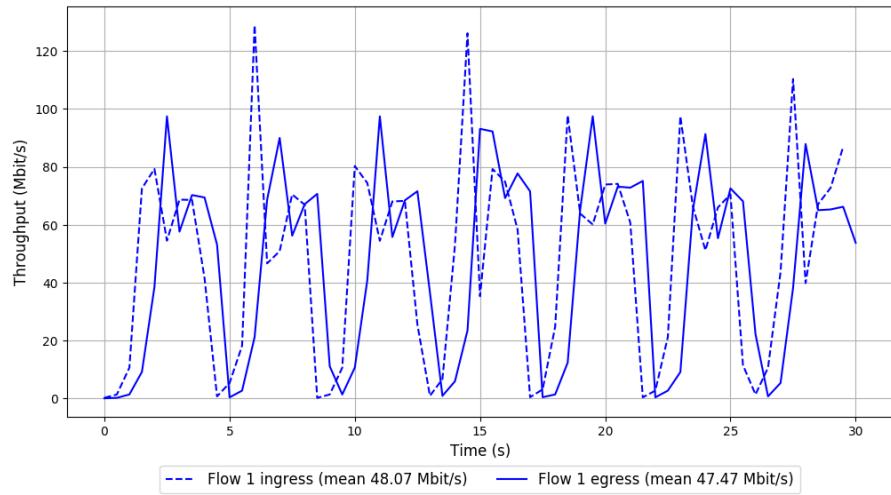


Run 2: Statistics of Verus

```
Start at: 2019-06-27 13:42:38
End at: 2019-06-27 13:43:08
Local clock offset: -7.05 ms
Remote clock offset: 100.361 ms

# Below is generated by plot.py at 2019-06-27 15:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.47 Mbit/s
95th percentile per-packet one-way delay: 294.655 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 47.47 Mbit/s
95th percentile per-packet one-way delay: 294.655 ms
Loss rate: 1.81%
```

Run 2: Report of Verus — Data Link

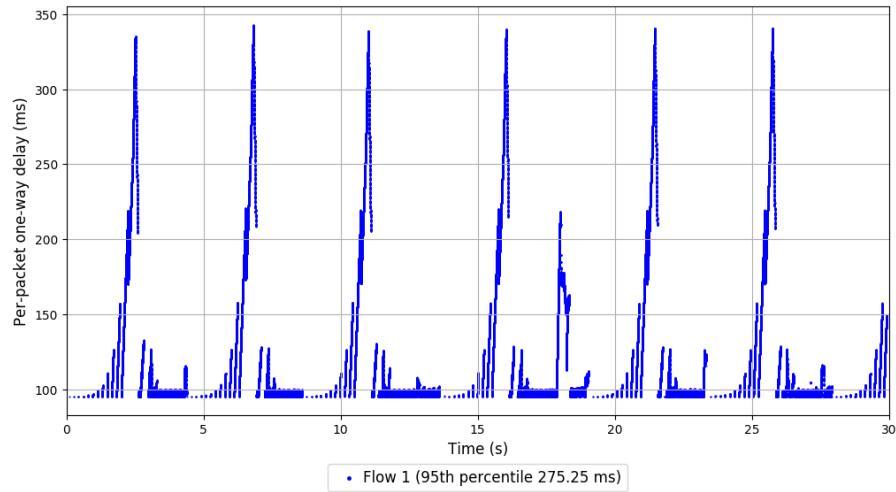
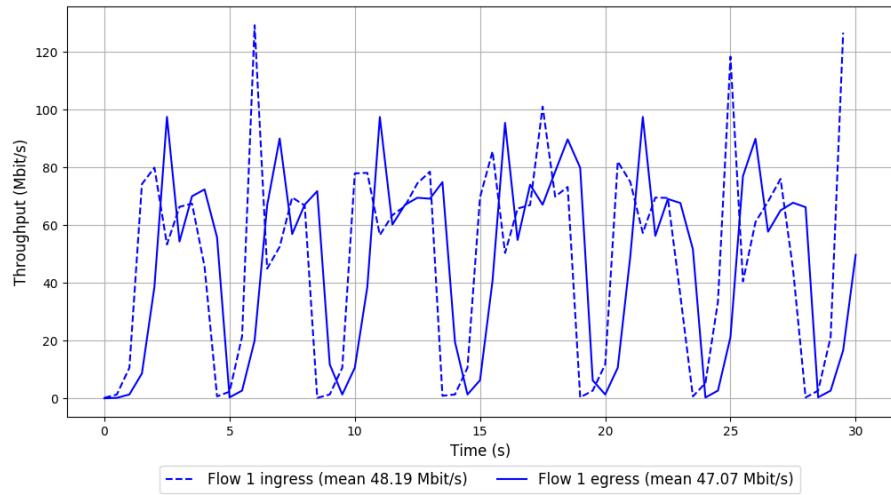


Run 3: Statistics of Verus

```
Start at: 2019-06-27 14:08:46
End at: 2019-06-27 14:09:16
Local clock offset: -6.324 ms
Remote clock offset: 98.747 ms

# Below is generated by plot.py at 2019-06-27 15:34:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.07 Mbit/s
95th percentile per-packet one-way delay: 275.245 ms
Loss rate: 2.88%
-- Flow 1:
Average throughput: 47.07 Mbit/s
95th percentile per-packet one-way delay: 275.245 ms
Loss rate: 2.88%
```

Run 3: Report of Verus — Data Link

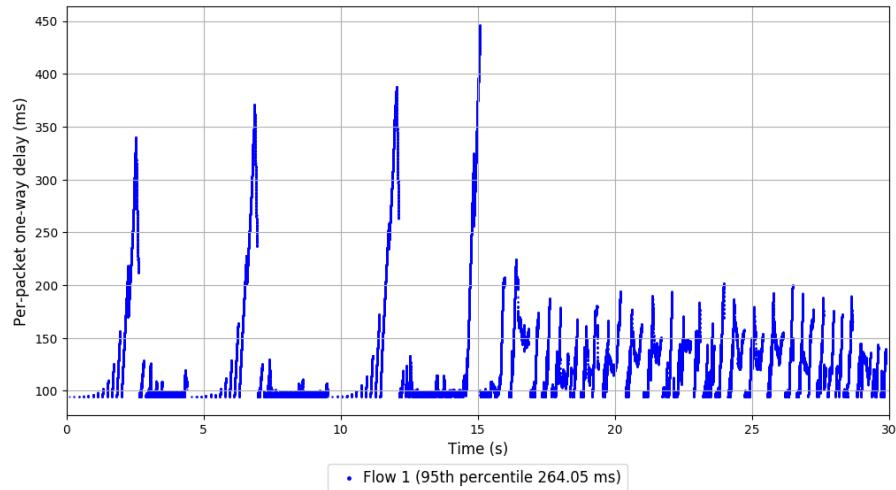
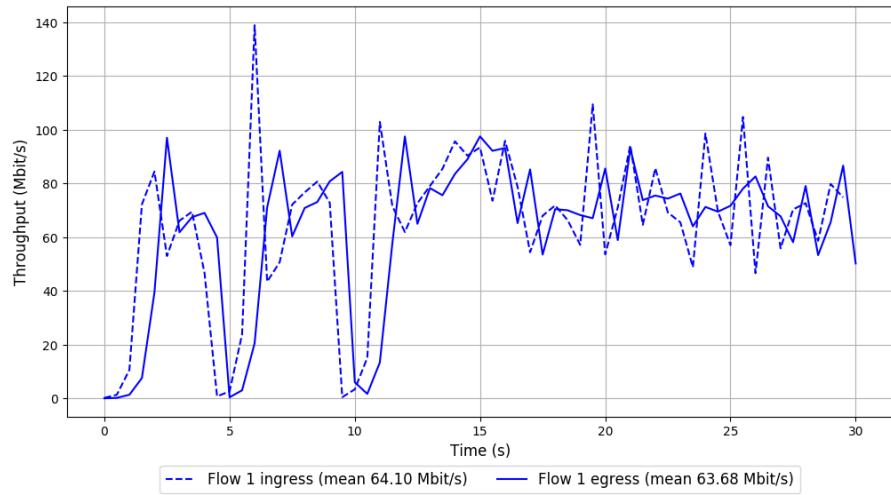


Run 4: Statistics of Verus

```
Start at: 2019-06-27 14:34:51
End at: 2019-06-27 14:35:21
Local clock offset: -5.556 ms
Remote clock offset: 103.445 ms

# Below is generated by plot.py at 2019-06-27 15:34:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.68 Mbit/s
95th percentile per-packet one-way delay: 264.050 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 63.68 Mbit/s
95th percentile per-packet one-way delay: 264.050 ms
Loss rate: 1.23%
```

Run 4: Report of Verus — Data Link

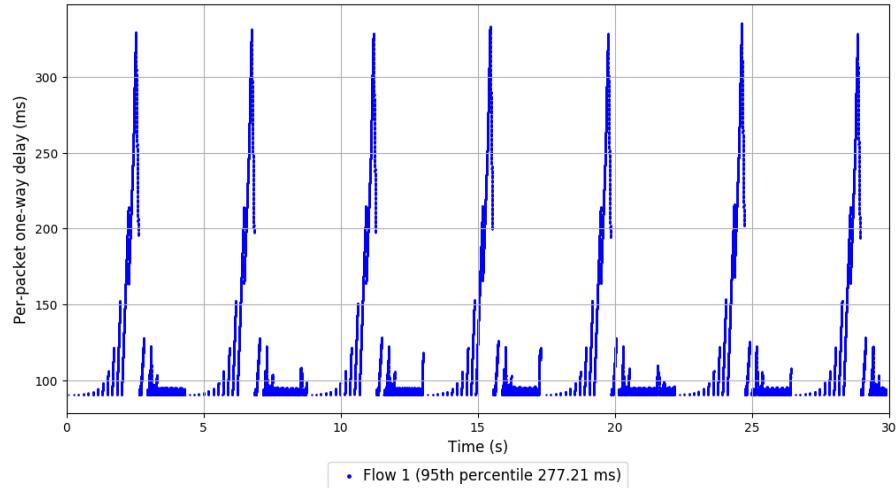
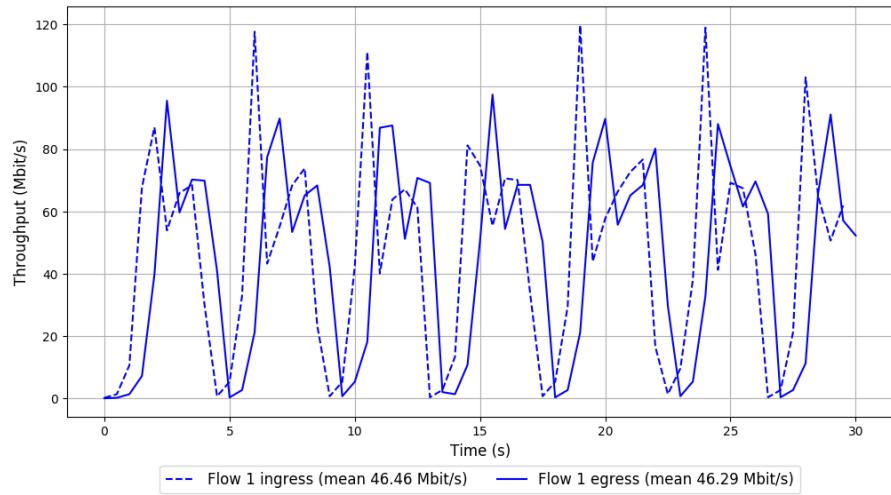


Run 5: Statistics of Verus

```
Start at: 2019-06-27 15:00:58
End at: 2019-06-27 15:01:28
Local clock offset: -6.703 ms
Remote clock offset: 109.945 ms

# Below is generated by plot.py at 2019-06-27 15:34:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.29 Mbit/s
95th percentile per-packet one-way delay: 277.209 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 46.29 Mbit/s
95th percentile per-packet one-way delay: 277.209 ms
Loss rate: 0.93%
```

Run 5: Report of Verus — Data Link

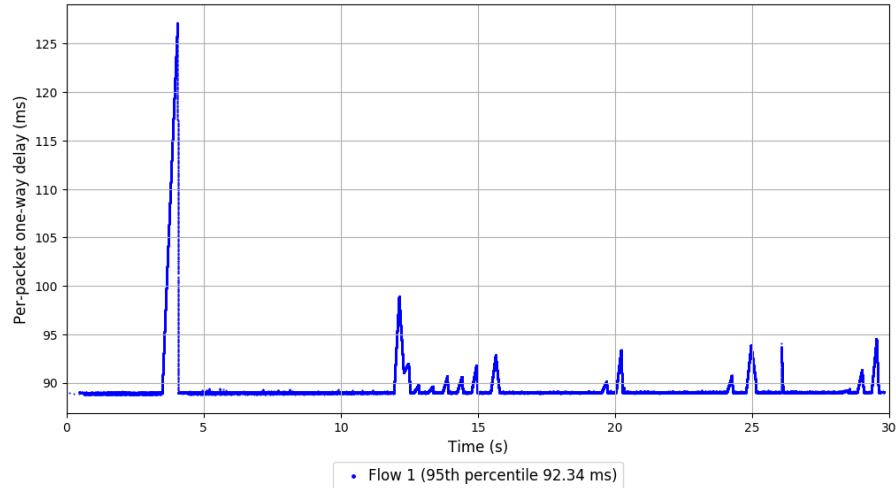
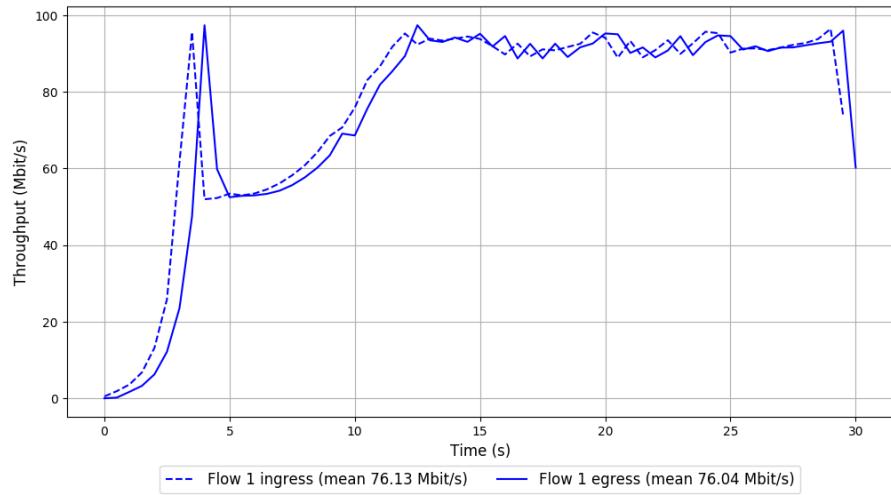


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-06-27 13:33:09
End at: 2019-06-27 13:33:39
Local clock offset: -6.084 ms
Remote clock offset: 100.483 ms

# Below is generated by plot.py at 2019-06-27 15:35:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.04 Mbit/s
95th percentile per-packet one-way delay: 92.338 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 76.04 Mbit/s
95th percentile per-packet one-way delay: 92.338 ms
Loss rate: 0.69%
```

Run 1: Report of PCC-Vivace — Data Link

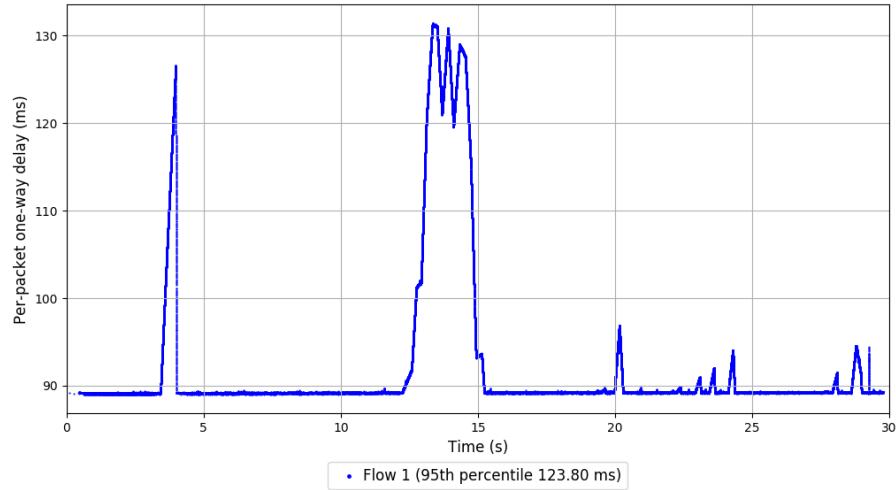
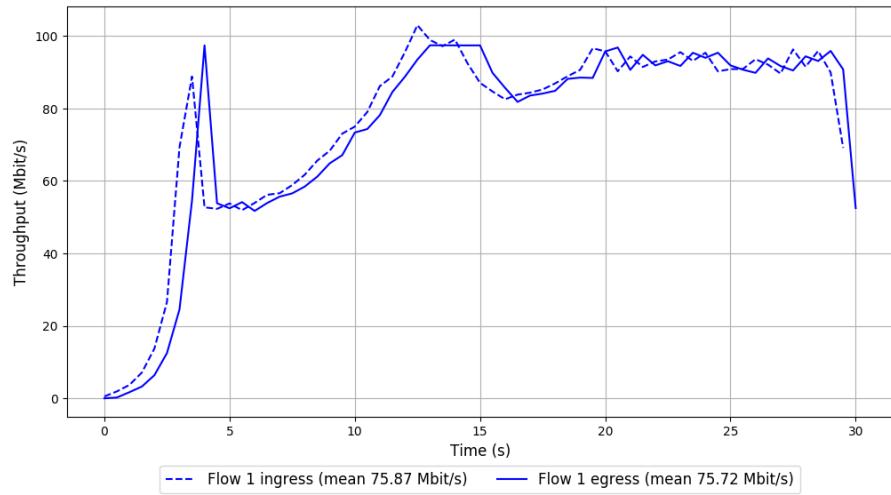


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-06-27 13:59:16
End at: 2019-06-27 13:59:46
Local clock offset: -7.061 ms
Remote clock offset: 102.826 ms

# Below is generated by plot.py at 2019-06-27 15:35:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.72 Mbit/s
95th percentile per-packet one-way delay: 123.802 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 75.72 Mbit/s
95th percentile per-packet one-way delay: 123.802 ms
Loss rate: 0.78%
```

Run 2: Report of PCC-Vivace — Data Link

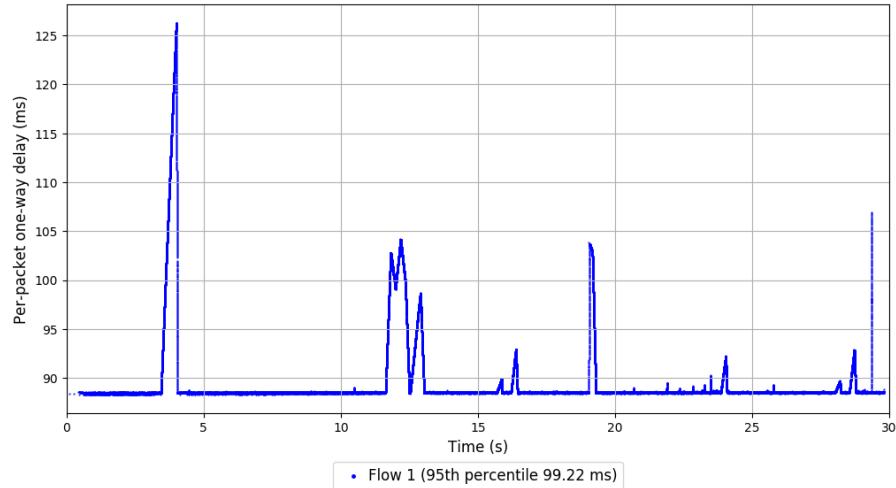
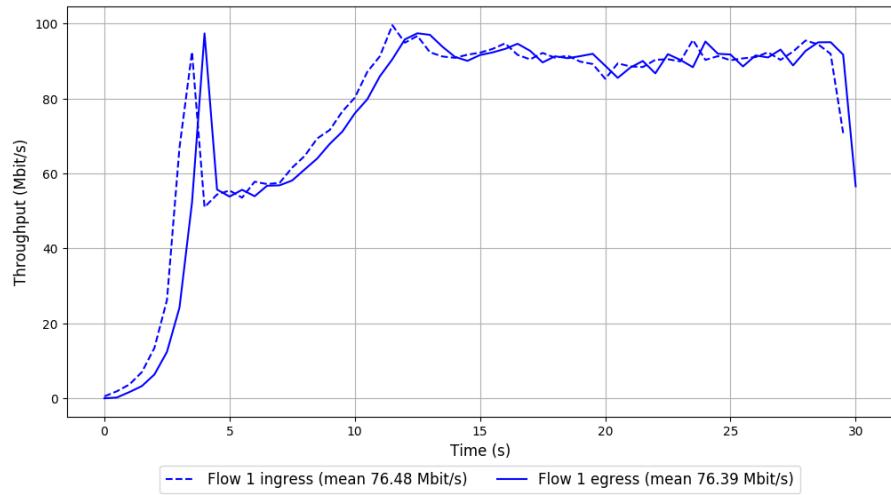


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-06-27 14:25:22
End at: 2019-06-27 14:25:52
Local clock offset: -6.822 ms
Remote clock offset: 106.438 ms

# Below is generated by plot.py at 2019-06-27 15:35:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.39 Mbit/s
95th percentile per-packet one-way delay: 99.221 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 76.39 Mbit/s
95th percentile per-packet one-way delay: 99.221 ms
Loss rate: 0.69%
```

Run 3: Report of PCC-Vivace — Data Link

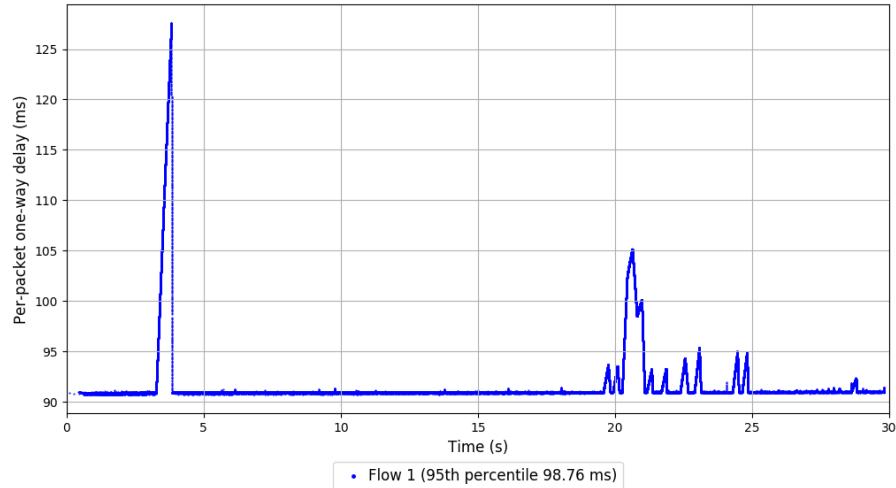
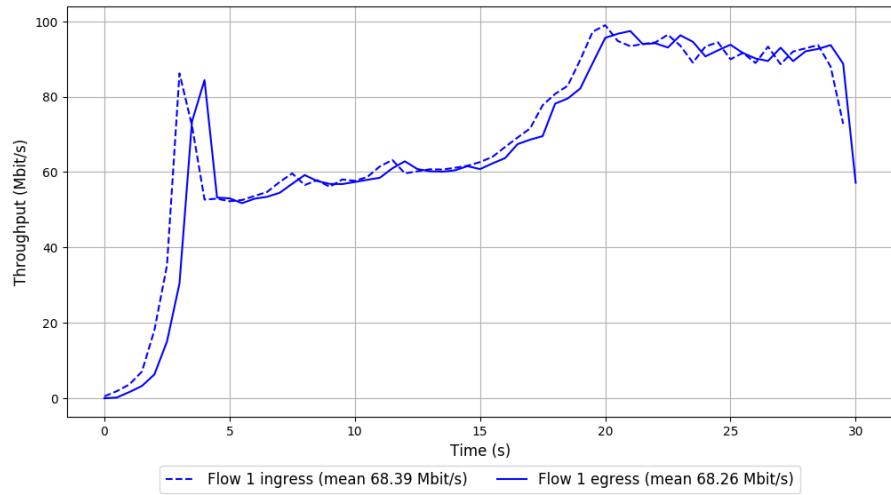


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-06-27 14:51:29
End at: 2019-06-27 14:51:59
Local clock offset: -5.77 ms
Remote clock offset: 108.661 ms

# Below is generated by plot.py at 2019-06-27 15:35:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.26 Mbit/s
95th percentile per-packet one-way delay: 98.760 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 68.26 Mbit/s
95th percentile per-packet one-way delay: 98.760 ms
Loss rate: 0.77%
```

Run 4: Report of PCC-Vivace — Data Link

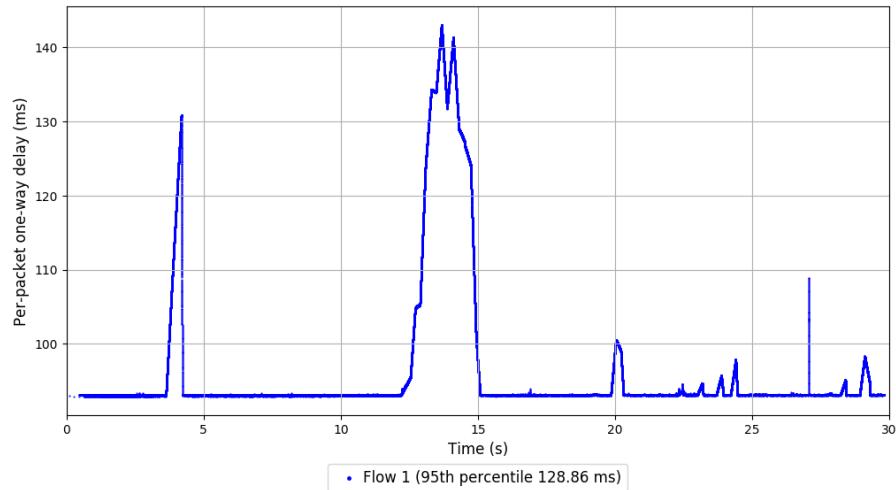
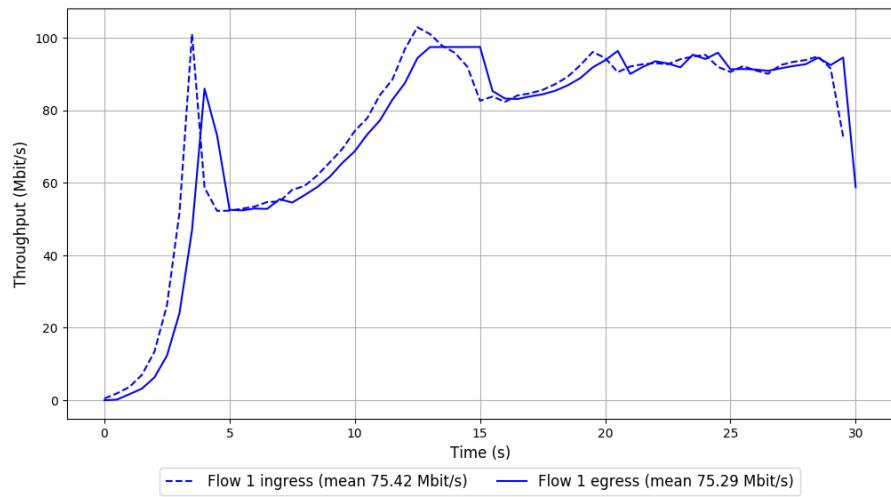


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-06-27 15:17:34
End at: 2019-06-27 15:18:04
Local clock offset: -6.812 ms
Remote clock offset: 109.305 ms

# Below is generated by plot.py at 2019-06-27 15:35:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.29 Mbit/s
95th percentile per-packet one-way delay: 128.861 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 75.29 Mbit/s
95th percentile per-packet one-way delay: 128.861 ms
Loss rate: 0.75%
```

Run 5: Report of PCC-Vivace — Data Link

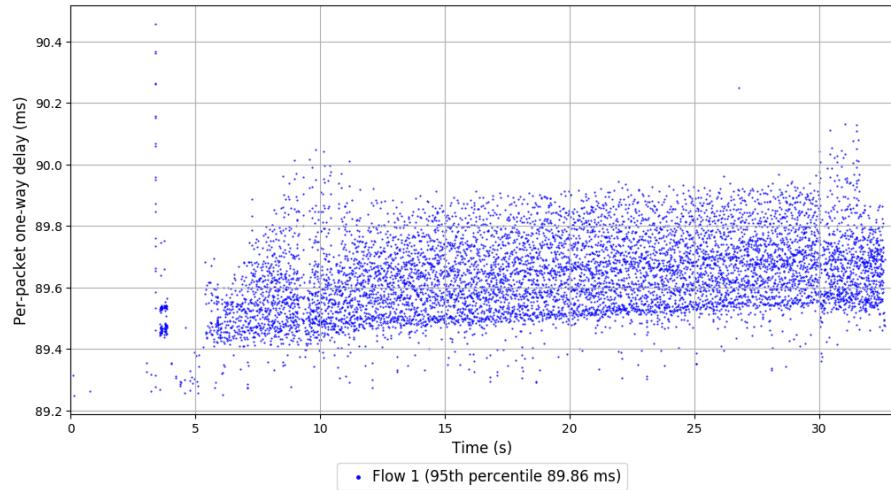
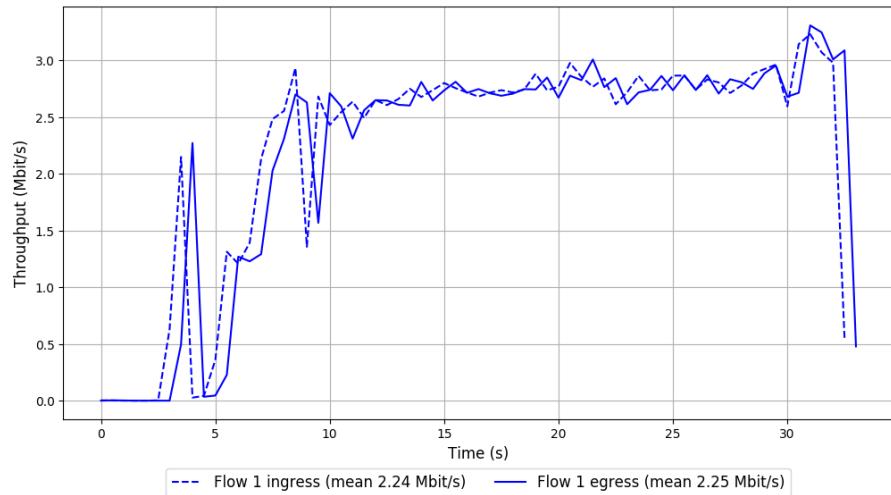


```
Run 1: Statistics of WebRTC media

Start at: 2019-06-27 13:18:54
End at: 2019-06-27 13:19:24
Local clock offset: -5.882 ms
Remote clock offset: 96.96 ms

# Below is generated by plot.py at 2019-06-27 15:35:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 89.864 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 89.864 ms
Loss rate: 0.33%
```

Run 1: Report of WebRTC media — Data Link

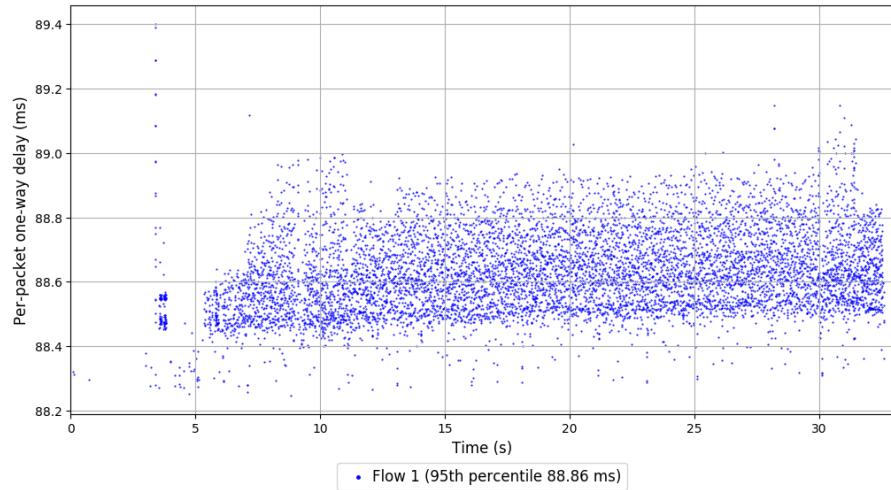
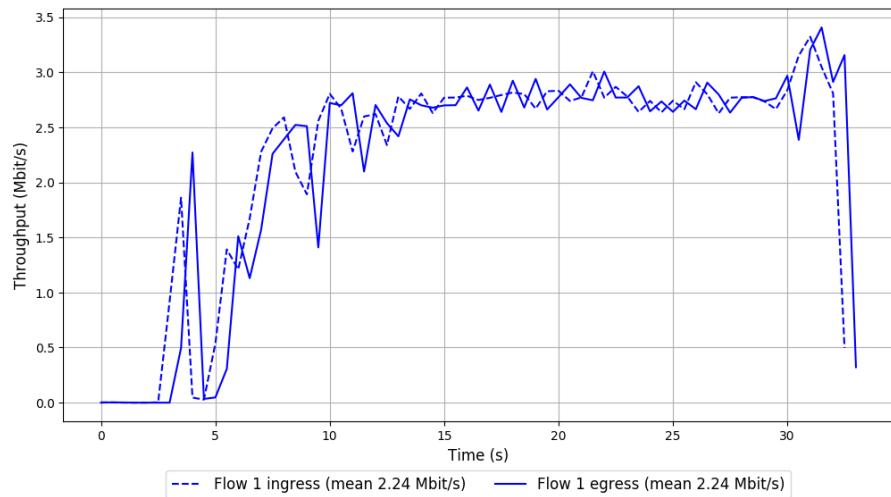


Run 2: Statistics of WebRTC media

```
Start at: 2019-06-27 13:45:00
End at: 2019-06-27 13:45:30
Local clock offset: -7.071 ms
Remote clock offset: 101.859 ms

# Below is generated by plot.py at 2019-06-27 15:35:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 88.858 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 88.858 ms
Loss rate: 0.30%
```

Run 2: Report of WebRTC media — Data Link

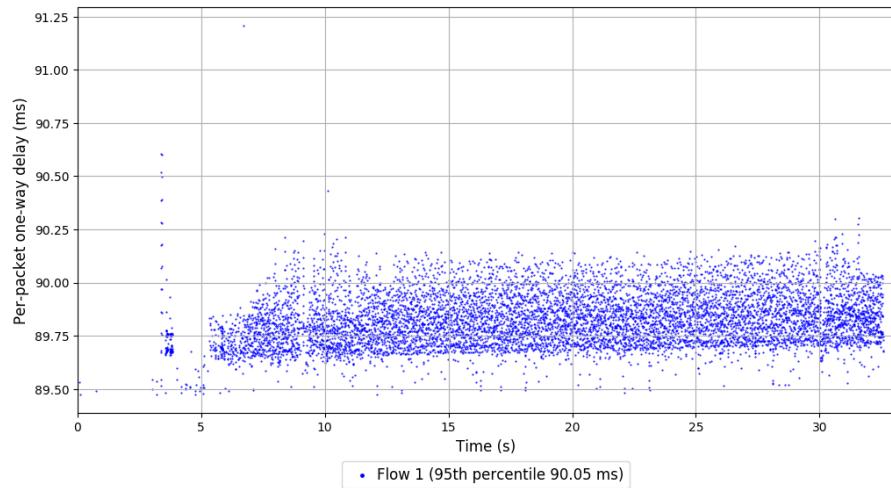
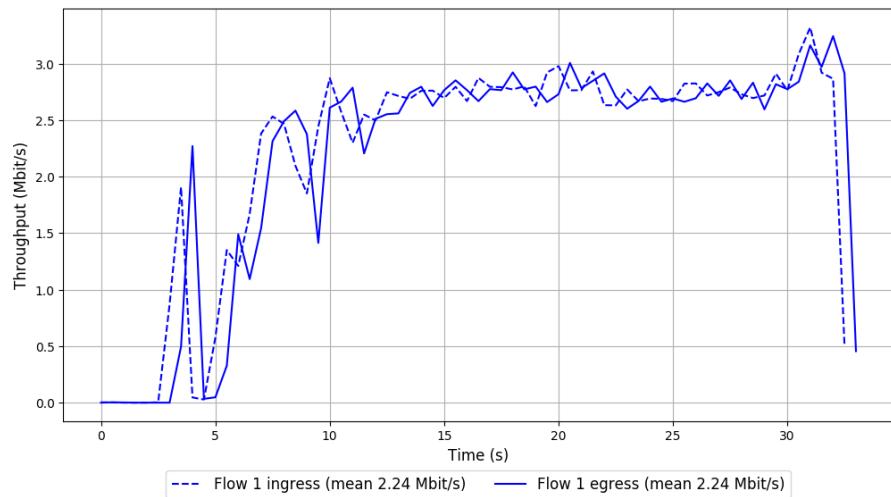


Run 3: Statistics of WebRTC media

```
Start at: 2019-06-27 14:11:08
End at: 2019-06-27 14:11:38
Local clock offset: -6.343 ms
Remote clock offset: 104.297 ms

# Below is generated by plot.py at 2019-06-27 15:35:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 90.053 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 90.053 ms
Loss rate: 0.34%
```

Run 3: Report of WebRTC media — Data Link

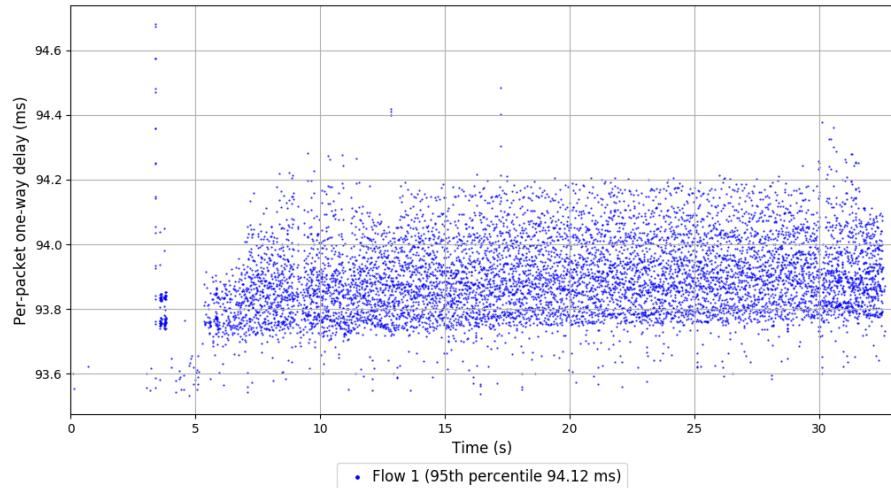
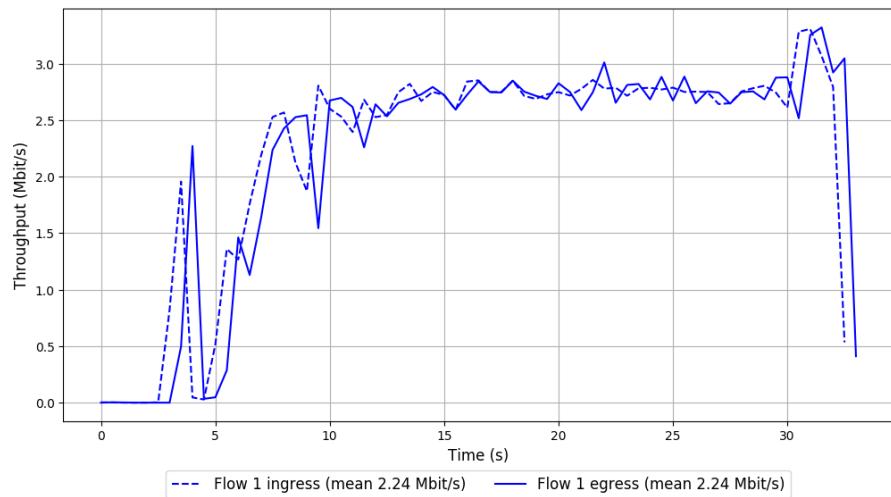


Run 4: Statistics of WebRTC media

```
Start at: 2019-06-27 14:37:14
End at: 2019-06-27 14:37:44
Local clock offset: -5.513 ms
Remote clock offset: 103.782 ms

# Below is generated by plot.py at 2019-06-27 15:35:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 94.120 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 94.120 ms
Loss rate: 0.33%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-06-27 15:03:19
End at: 2019-06-27 15:03:49
Local clock offset: -6.699 ms
Remote clock offset: 110.042 ms

# Below is generated by plot.py at 2019-06-27 15:35:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 91.372 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 91.372 ms
Loss rate: 0.39%
```

Run 5: Report of WebRTC media — Data Link

