

Pantheon Report

Generated at 2019-07-18 07:24:06 (UTC).
Data path: Colombia on p4p1 (*remote*) → AWS Brazil 2 on ens5 (*local*).
Repeated the test of 24 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

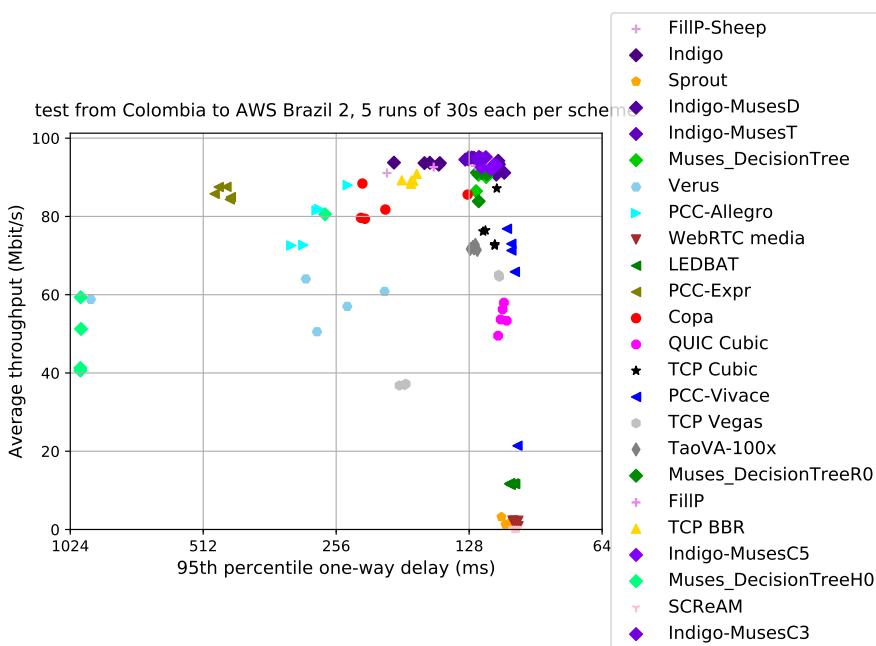
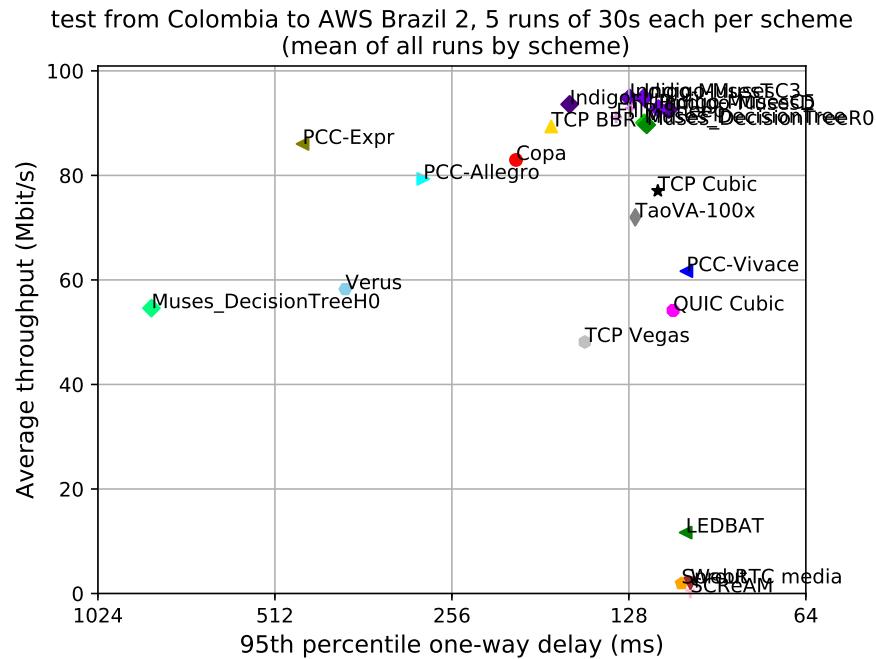
System info:

```
Linux 4.15.0-1043-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 @ de42328552b3776a75a932a94dfaf722537b0ec
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

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



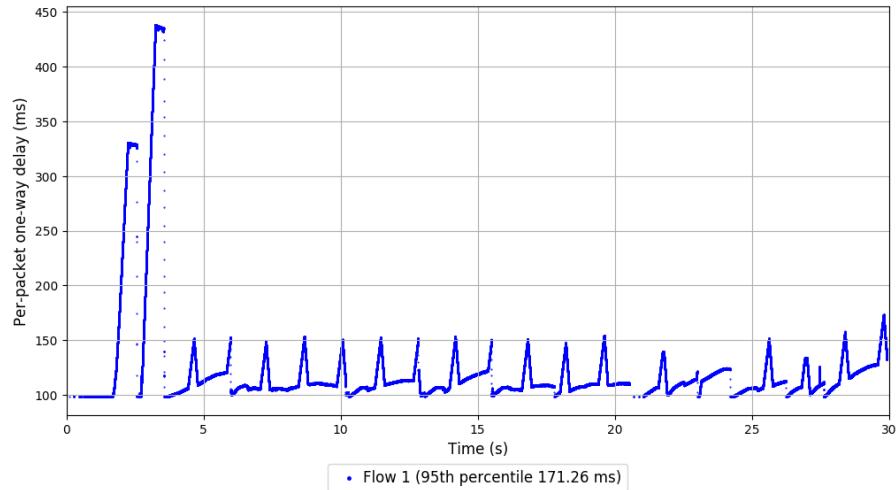
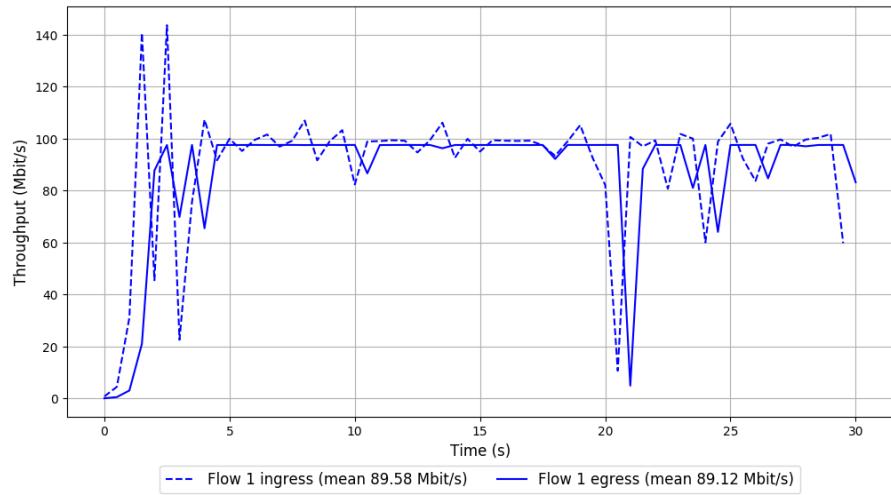
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	89.36	173.48	1.57
Copa	5	82.95	199.14	0.73
TCP Cubic	5	77.04	114.28	0.64
FillP	5	92.83	126.91	0.62
FillP-Sheep	5	91.14	134.50	0.64
Indigo	5	93.59	161.45	0.93
Indigo-MusesC3	5	94.88	120.70	4.39
Indigo-MusesC5	5	92.78	113.99	1.20
Indigo-MusesD	5	92.58	109.47	0.79
Indigo-MusesT	5	94.84	127.70	8.11
LEDBAT	5	11.67	102.47	1.17
Muses_DecisionTree	5	90.07	120.42	1.84
Muses_DecisionTreeH0	5	54.60	830.29	2.84
Muses_DecisionTreeR0	5	89.66	119.34	0.93
PCC-Allegro	5	79.33	286.35	0.74
PCC-Expr	5	86.03	459.47	1.09
QUIC Cubic	5	54.16	107.64	0.84
SCReAM	5	0.22	100.63	0.54
Sprout	5	1.93	104.18	0.79
TaoVA-100x	5	71.99	124.84	0.67
TCP Vegas	5	48.12	152.12	0.66
Verus	5	58.24	388.62	0.57
PCC-Vivace	5	61.68	102.19	0.87
WebRTC media	5	1.94	100.58	0.60

Run 1: Statistics of TCP BBR

```
Start at: 2019-07-18 04:54:05
End at: 2019-07-18 04:54:35
Local clock offset: -7.492 ms
Remote clock offset: -7.361 ms

# Below is generated by plot.py at 2019-07-18 07:11:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.12 Mbit/s
95th percentile per-packet one-way delay: 171.260 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 89.12 Mbit/s
95th percentile per-packet one-way delay: 171.260 ms
Loss rate: 1.08%
```

Run 1: Report of TCP BBR — Data Link

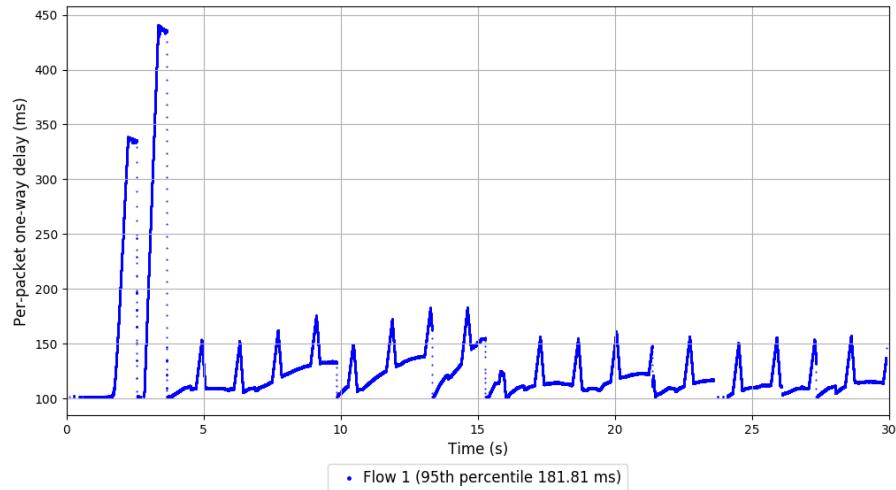
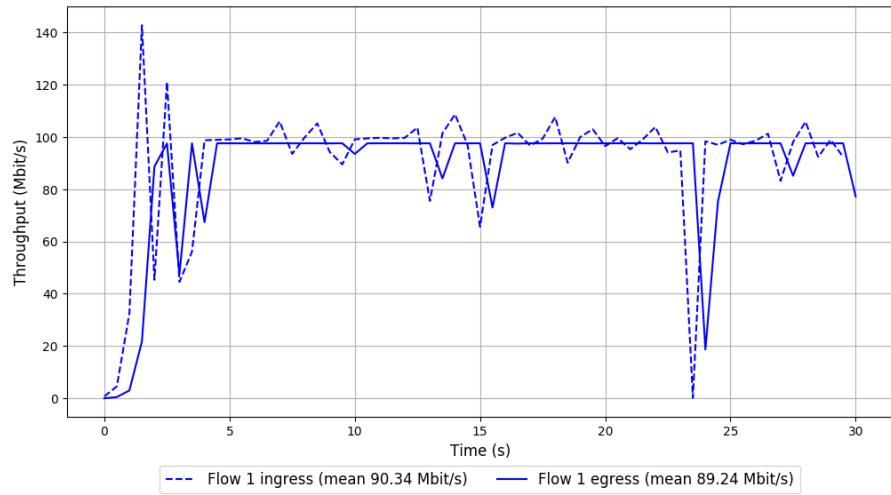


Run 2: Statistics of TCP BBR

```
Start at: 2019-07-18 05:22:41
End at: 2019-07-18 05:23:11
Local clock offset: -7.022 ms
Remote clock offset: -8.904 ms

# Below is generated by plot.py at 2019-07-18 07:11:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.24 Mbit/s
95th percentile per-packet one-way delay: 181.806 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 89.24 Mbit/s
95th percentile per-packet one-way delay: 181.806 ms
Loss rate: 1.79%
```

Run 2: Report of TCP BBR — Data Link

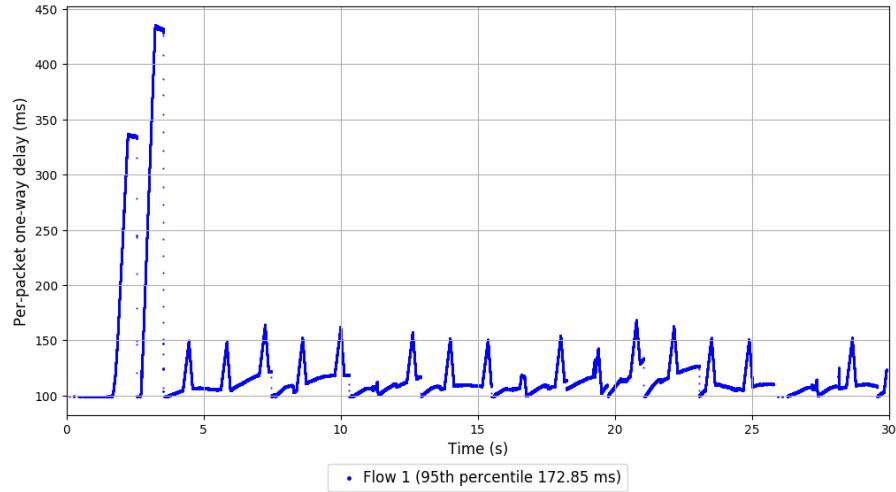
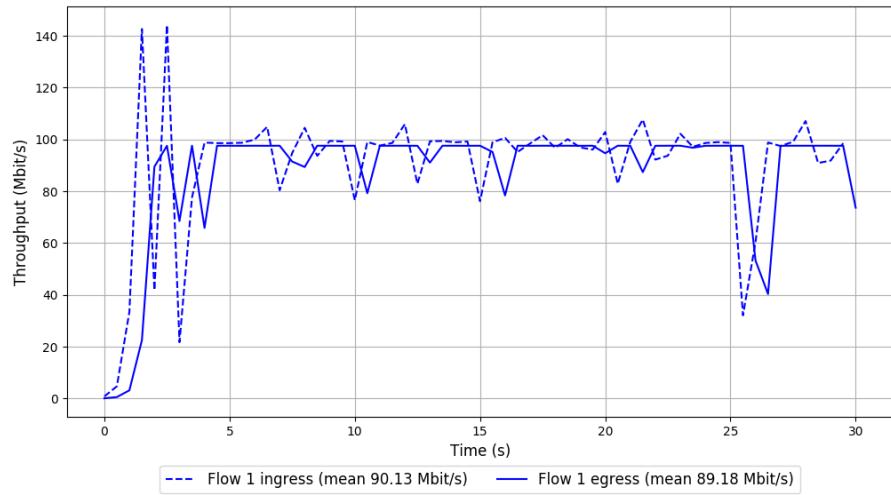


Run 3: Statistics of TCP BBR

```
Start at: 2019-07-18 05:51:20
End at: 2019-07-18 05:51:50
Local clock offset: -6.58 ms
Remote clock offset: -8.543 ms

# Below is generated by plot.py at 2019-07-18 07:11:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.18 Mbit/s
95th percentile per-packet one-way delay: 172.851 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 89.18 Mbit/s
95th percentile per-packet one-way delay: 172.851 ms
Loss rate: 1.63%
```

Run 3: Report of TCP BBR — Data Link

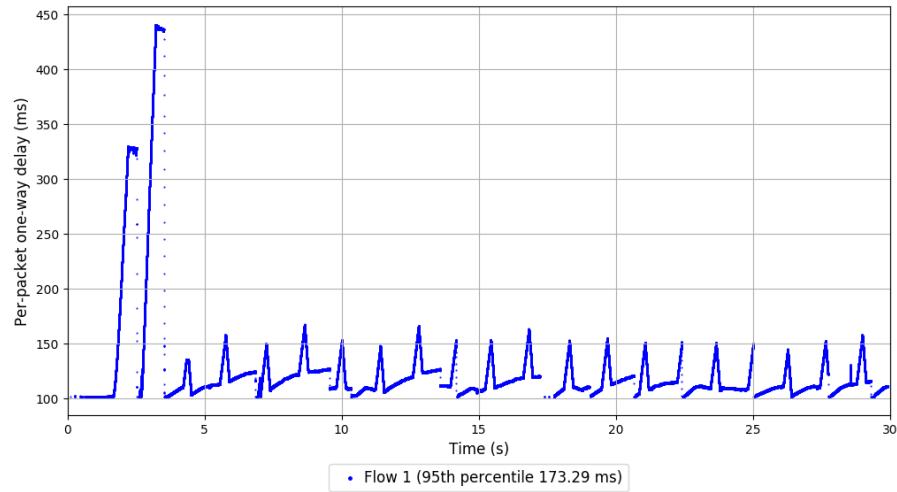
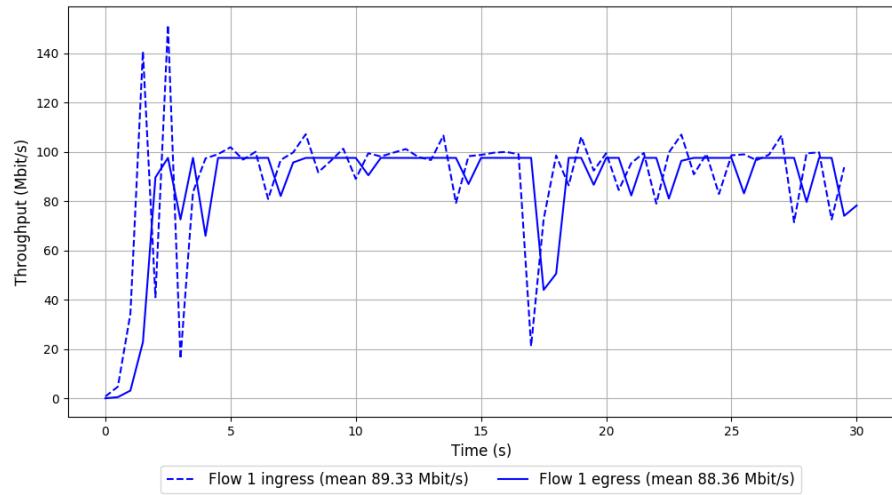


Run 4: Statistics of TCP BBR

```
Start at: 2019-07-18 06:19:57
End at: 2019-07-18 06:20:27
Local clock offset: -7.233 ms
Remote clock offset: -10.305 ms

# Below is generated by plot.py at 2019-07-18 07:11:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.36 Mbit/s
95th percentile per-packet one-way delay: 173.291 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 88.36 Mbit/s
95th percentile per-packet one-way delay: 173.291 ms
Loss rate: 1.66%
```

Run 4: Report of TCP BBR — Data Link

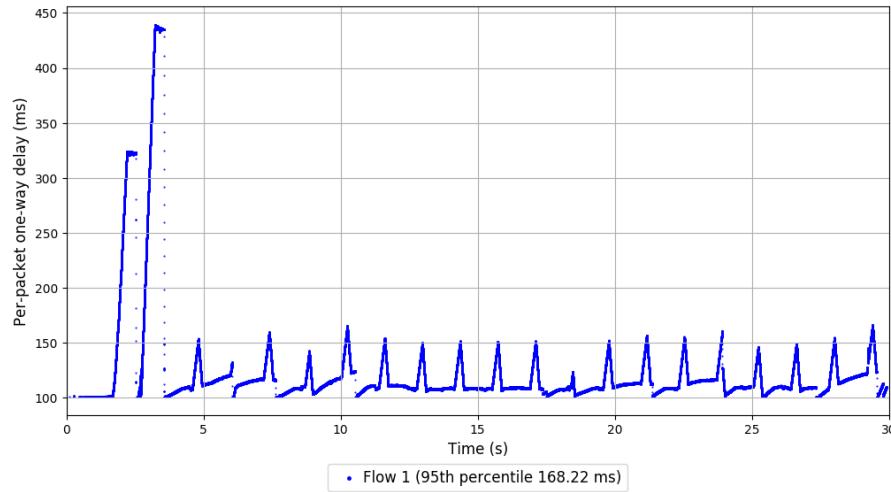
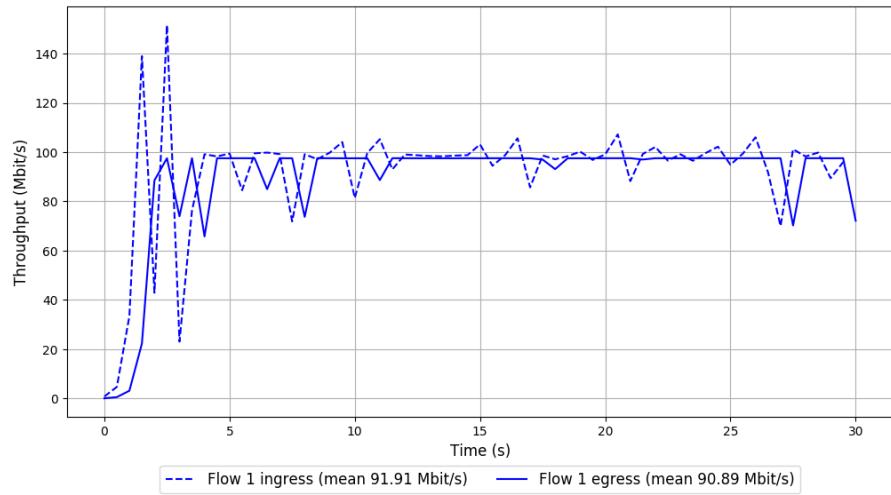


Run 5: Statistics of TCP BBR

```
Start at: 2019-07-18 06:48:33
End at: 2019-07-18 06:49:03
Local clock offset: -5.877 ms
Remote clock offset: -6.498 ms

# Below is generated by plot.py at 2019-07-18 07:11:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.89 Mbit/s
95th percentile per-packet one-way delay: 168.216 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 90.89 Mbit/s
95th percentile per-packet one-way delay: 168.216 ms
Loss rate: 1.69%
```

Run 5: Report of TCP BBR — Data Link

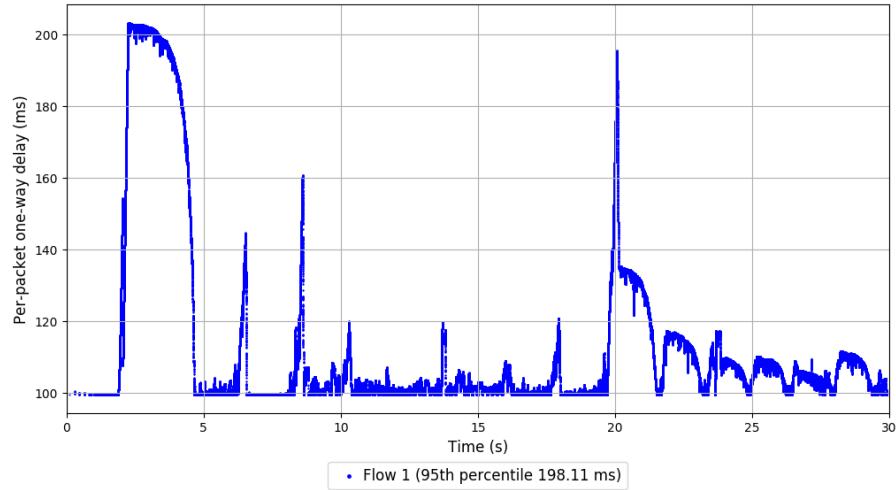
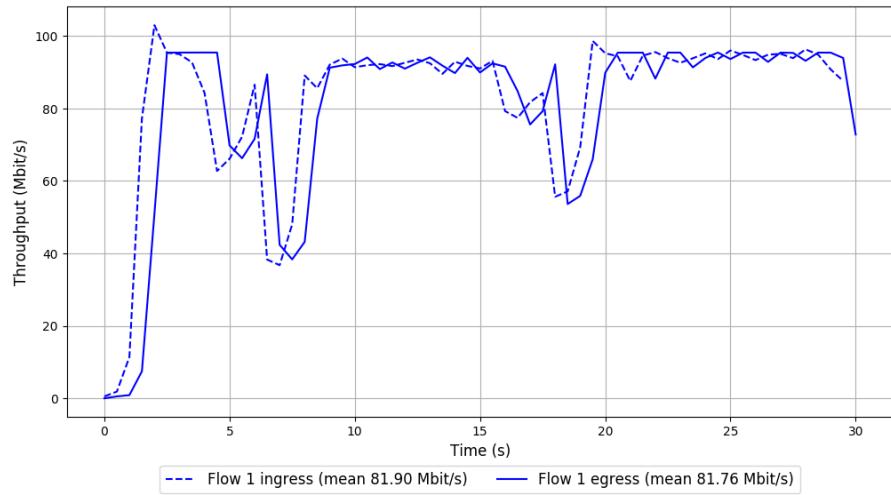


Run 1: Statistics of Copa

```
Start at: 2019-07-18 05:00:04
End at: 2019-07-18 05:00:34
Local clock offset: -6.23 ms
Remote clock offset: -7.12 ms

# Below is generated by plot.py at 2019-07-18 07:11:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.76 Mbit/s
95th percentile per-packet one-way delay: 198.107 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 81.76 Mbit/s
95th percentile per-packet one-way delay: 198.107 ms
Loss rate: 0.75%
```

Run 1: Report of Copa — Data Link

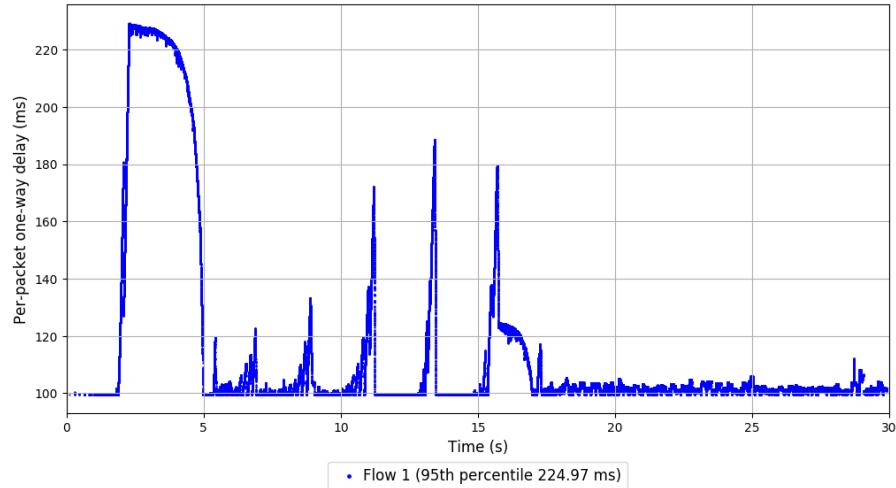
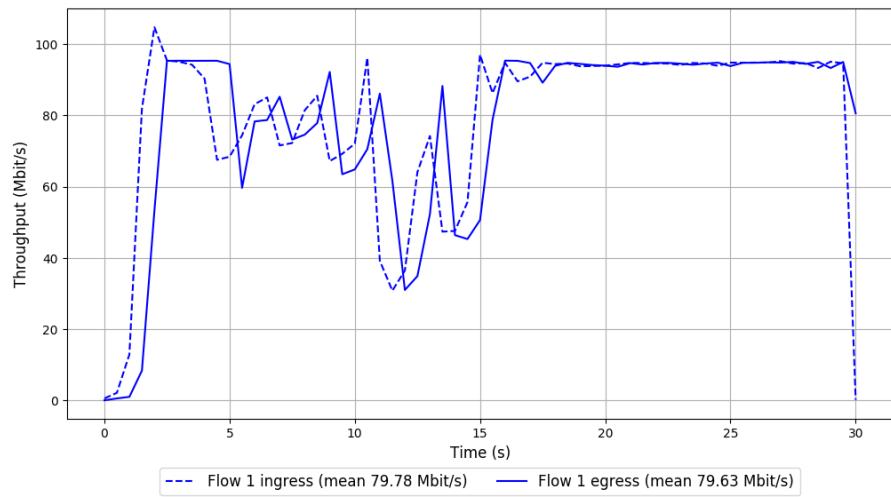


Run 2: Statistics of Copa

```
Start at: 2019-07-18 05:28:40
End at: 2019-07-18 05:29:10
Local clock offset: -6.809 ms
Remote clock offset: -8.052 ms

# Below is generated by plot.py at 2019-07-18 07:11:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.63 Mbit/s
95th percentile per-packet one-way delay: 224.974 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 79.63 Mbit/s
95th percentile per-packet one-way delay: 224.974 ms
Loss rate: 0.77%
```

Run 2: Report of Copa — Data Link

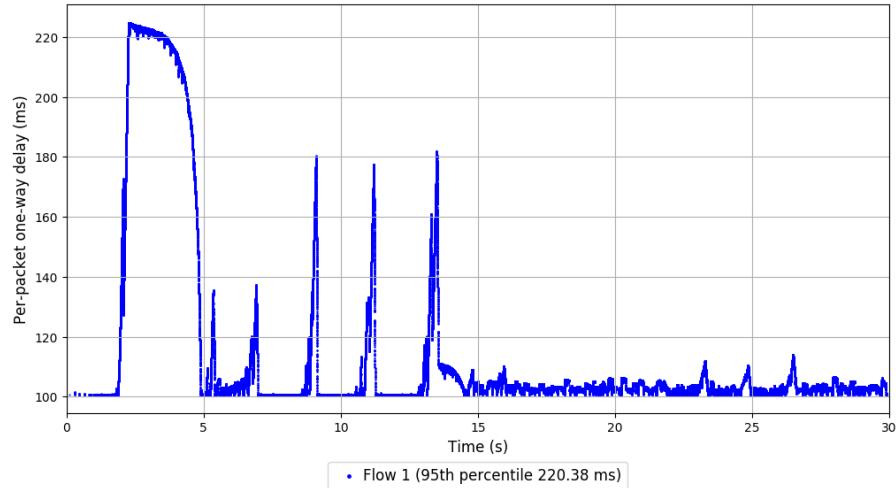
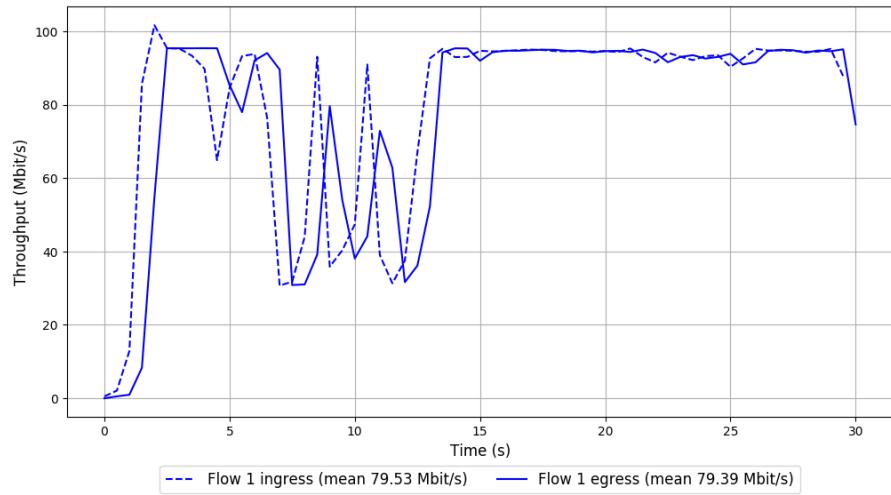


Run 3: Statistics of Copa

```
Start at: 2019-07-18 05:57:21
End at: 2019-07-18 05:57:51
Local clock offset: -6.356 ms
Remote clock offset: -9.888 ms

# Below is generated by plot.py at 2019-07-18 07:11:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.39 Mbit/s
95th percentile per-packet one-way delay: 220.381 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 79.39 Mbit/s
95th percentile per-packet one-way delay: 220.381 ms
Loss rate: 0.75%
```

Run 3: Report of Copa — Data Link

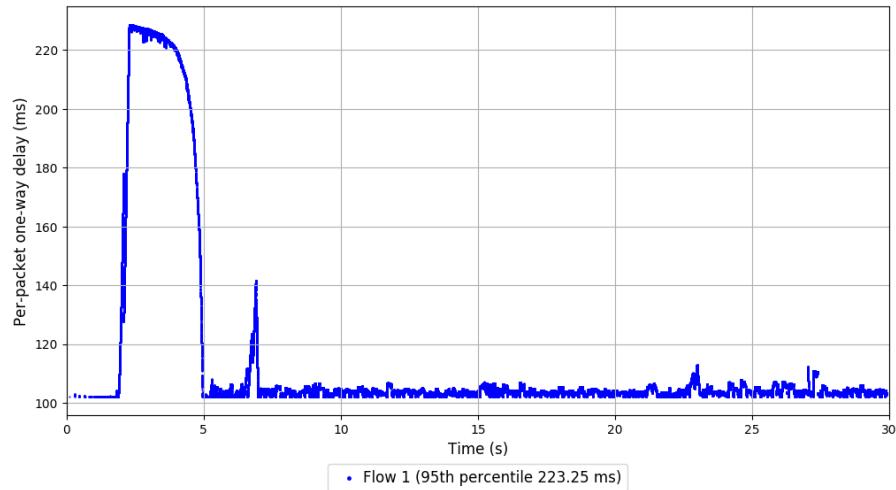
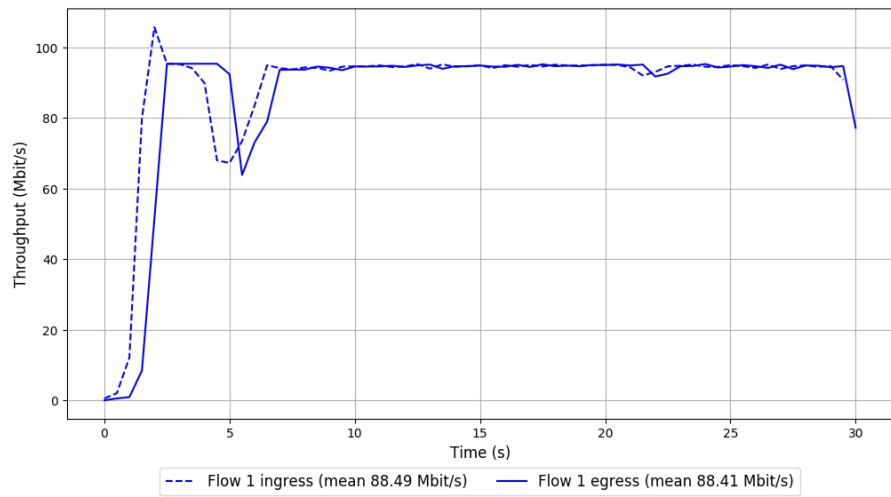


Run 4: Statistics of Copa

```
Start at: 2019-07-18 06:25:57
End at: 2019-07-18 06:26:27
Local clock offset: -6.962 ms
Remote clock offset: -10.269 ms

# Below is generated by plot.py at 2019-07-18 07:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.41 Mbit/s
95th percentile per-packet one-way delay: 223.251 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 88.41 Mbit/s
95th percentile per-packet one-way delay: 223.251 ms
Loss rate: 0.68%
```

Run 4: Report of Copa — Data Link

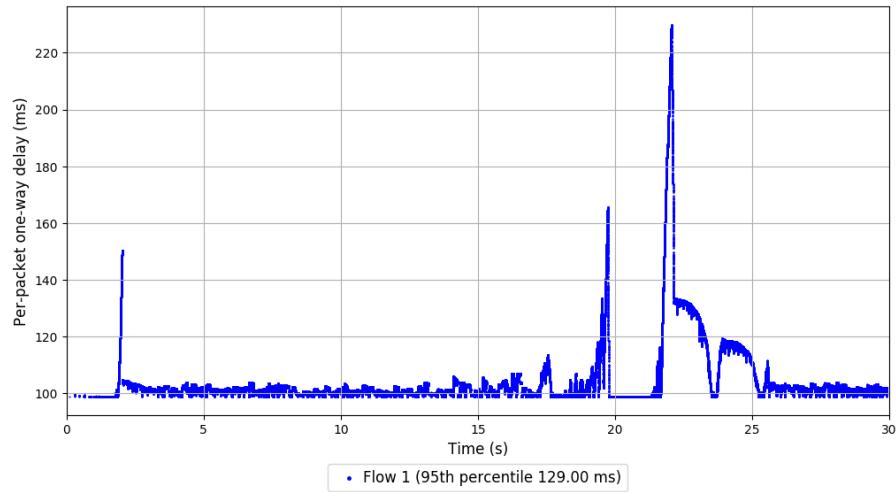
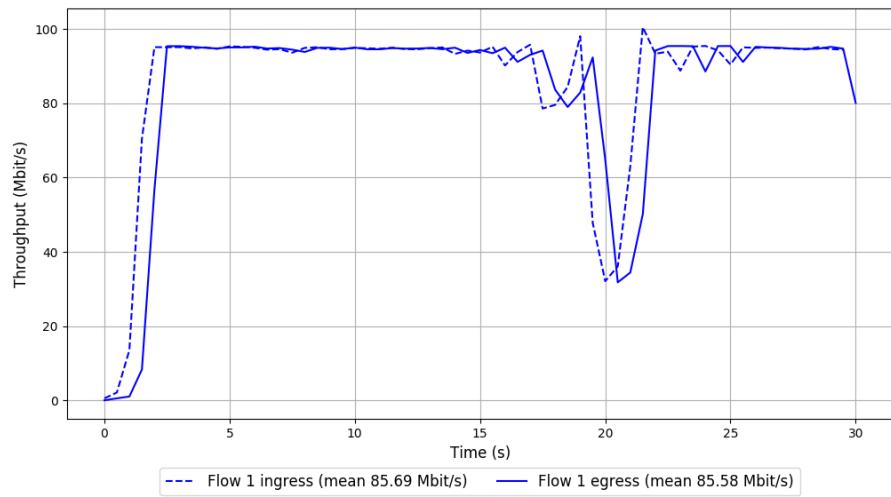


Run 5: Statistics of Copa

```
Start at: 2019-07-18 06:54:33
End at: 2019-07-18 06:55:03
Local clock offset: -6.733 ms
Remote clock offset: -4.645 ms

# Below is generated by plot.py at 2019-07-18 07:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.58 Mbit/s
95th percentile per-packet one-way delay: 129.001 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 85.58 Mbit/s
95th percentile per-packet one-way delay: 129.001 ms
Loss rate: 0.70%
```

Run 5: Report of Copa — Data Link

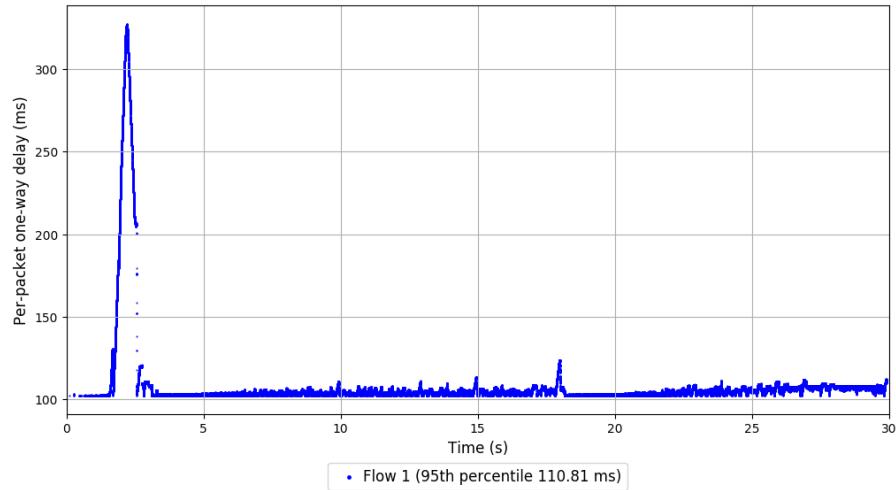
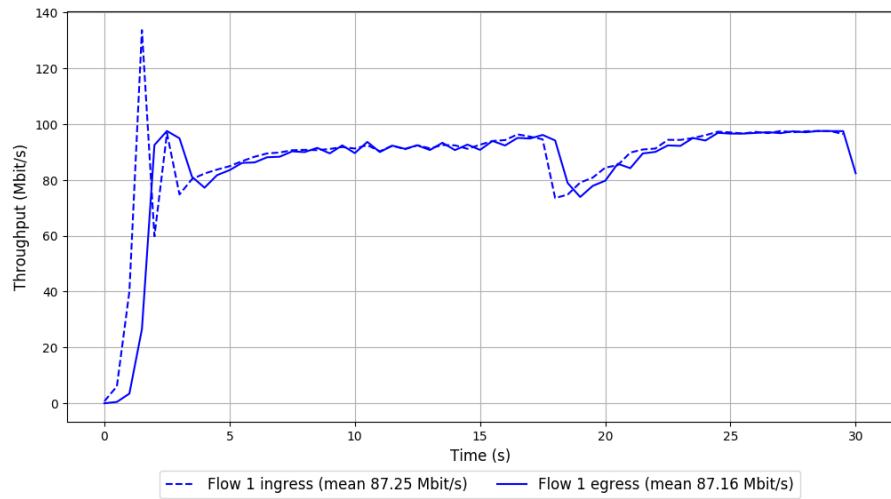


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-07-18 04:55:19
End at: 2019-07-18 04:55:49
Local clock offset: -7.46 ms
Remote clock offset: -10.419 ms

# Below is generated by plot.py at 2019-07-18 07:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.16 Mbit/s
95th percentile per-packet one-way delay: 110.814 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 87.16 Mbit/s
95th percentile per-packet one-way delay: 110.814 ms
Loss rate: 0.68%
```

Run 1: Report of TCP Cubic — Data Link

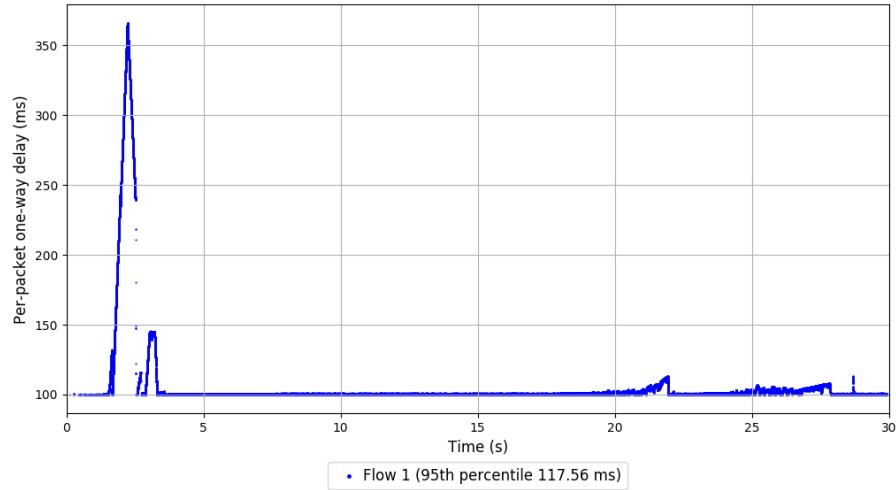
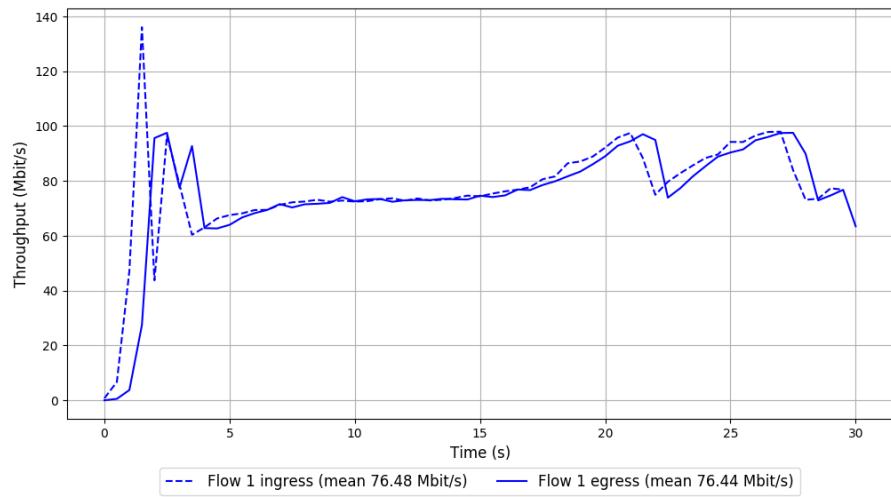


Run 2: Statistics of TCP Cubic

```
Start at: 2019-07-18 05:23:53
End at: 2019-07-18 05:24:23
Local clock offset: -6.262 ms
Remote clock offset: -6.654 ms

# Below is generated by plot.py at 2019-07-18 07:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.44 Mbit/s
95th percentile per-packet one-way delay: 117.562 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 76.44 Mbit/s
95th percentile per-packet one-way delay: 117.562 ms
Loss rate: 0.62%
```

Run 2: Report of TCP Cubic — Data Link

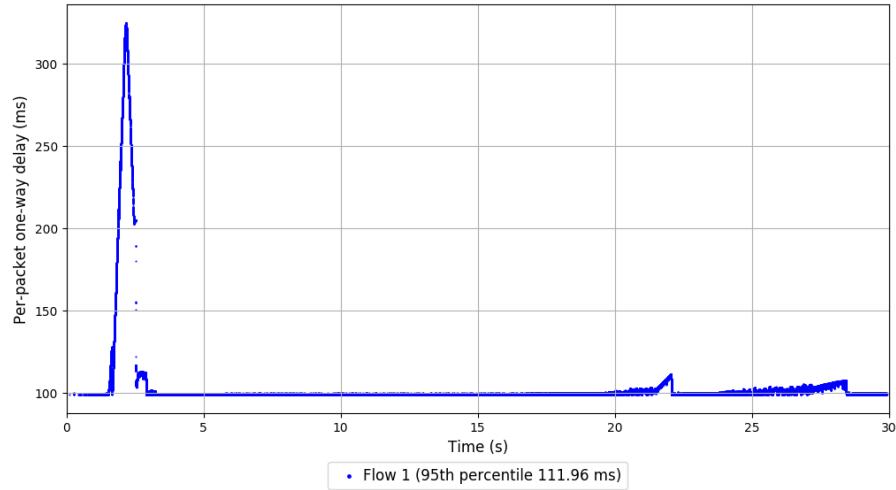
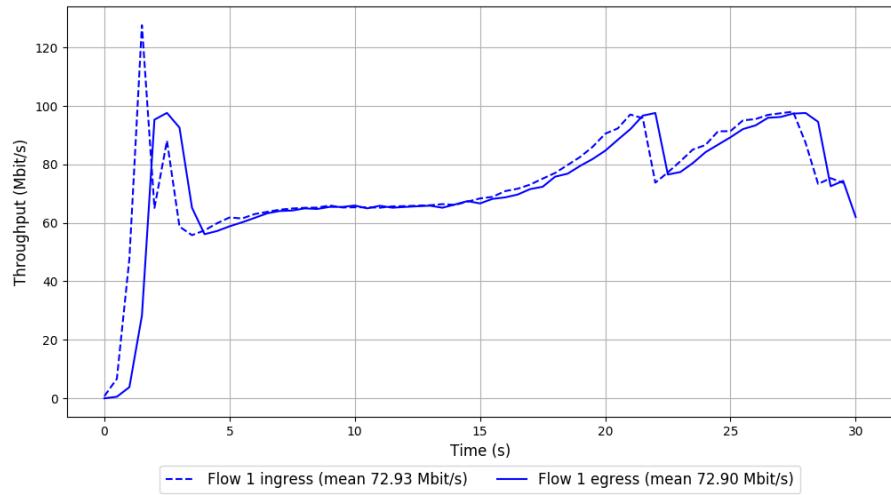


Run 3: Statistics of TCP Cubic

```
Start at: 2019-07-18 05:52:33
End at: 2019-07-18 05:53:03
Local clock offset: -6.89 ms
Remote clock offset: -8.986 ms

# Below is generated by plot.py at 2019-07-18 07:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.90 Mbit/s
95th percentile per-packet one-way delay: 111.964 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 72.90 Mbit/s
95th percentile per-packet one-way delay: 111.964 ms
Loss rate: 0.63%
```

Run 3: Report of TCP Cubic — Data Link

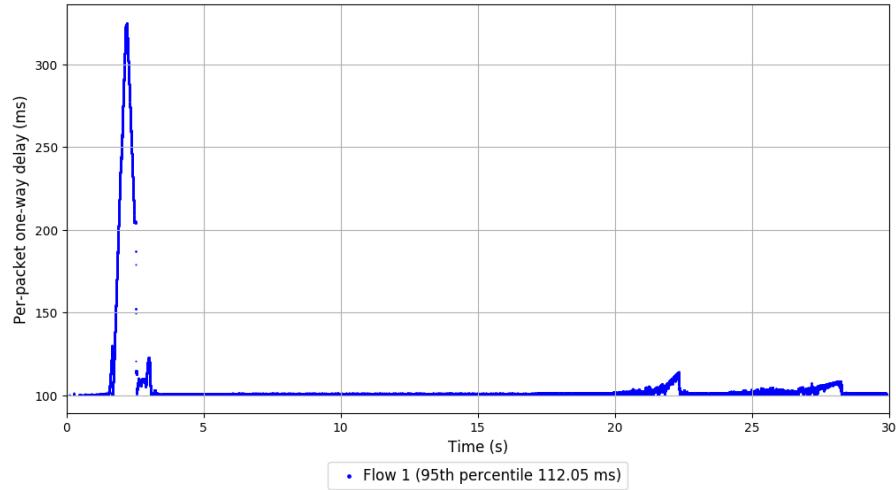
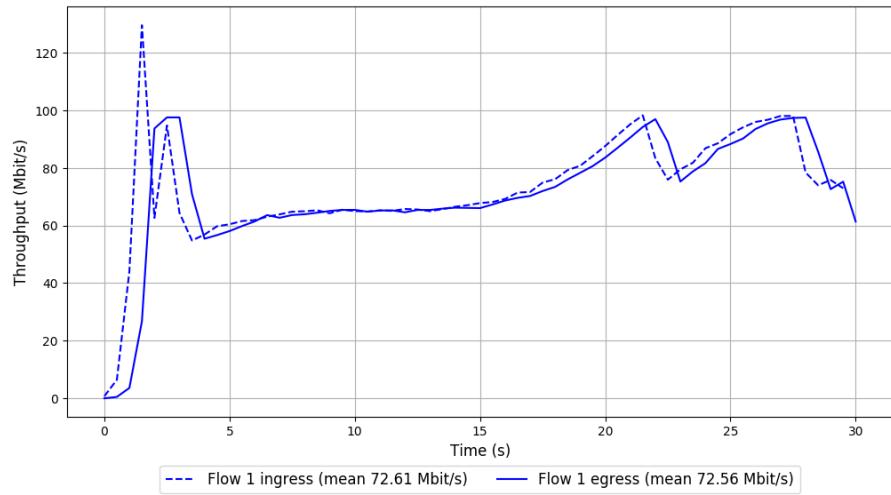


Run 4: Statistics of TCP Cubic

```
Start at: 2019-07-18 06:21:10
End at: 2019-07-18 06:21:40
Local clock offset: -7.032 ms
Remote clock offset: -8.183 ms

# Below is generated by plot.py at 2019-07-18 07:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.56 Mbit/s
95th percentile per-packet one-way delay: 112.052 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.56 Mbit/s
95th percentile per-packet one-way delay: 112.052 ms
Loss rate: 0.64%
```

Run 4: Report of TCP Cubic — Data Link

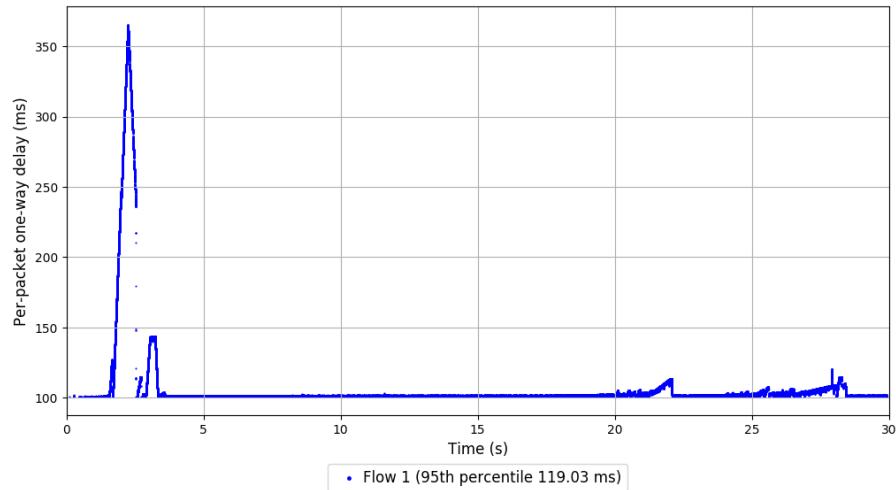
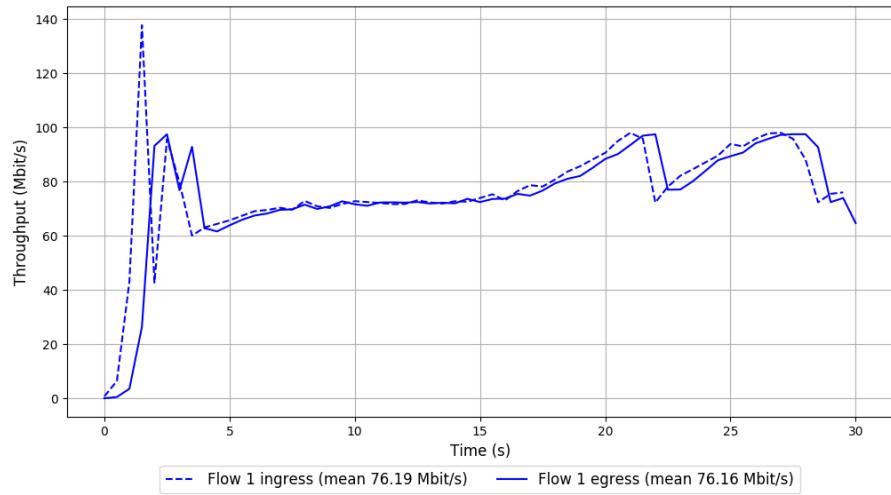


Run 5: Statistics of TCP Cubic

```
Start at: 2019-07-18 06:49:46
End at: 2019-07-18 06:50:16
Local clock offset: -6.947 ms
Remote clock offset: -6.71 ms

# Below is generated by plot.py at 2019-07-18 07:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.16 Mbit/s
95th percentile per-packet one-way delay: 119.029 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 76.16 Mbit/s
95th percentile per-packet one-way delay: 119.029 ms
Loss rate: 0.62%
```

Run 5: Report of TCP Cubic — Data Link

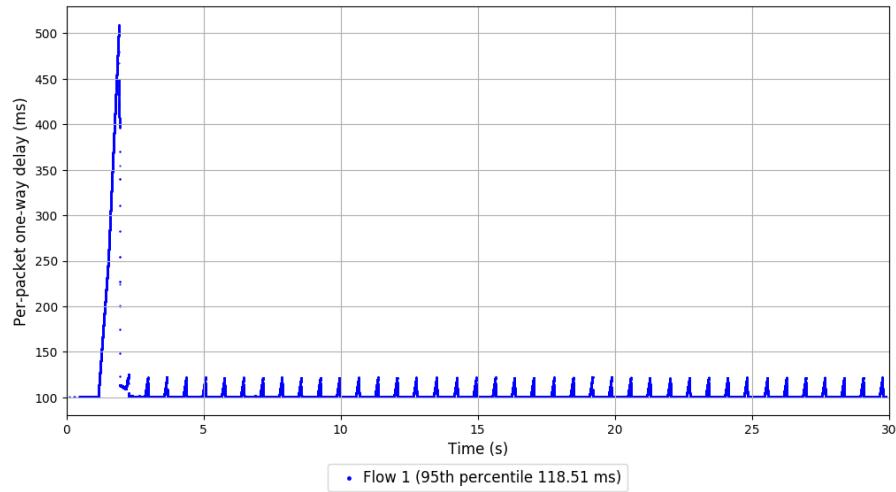
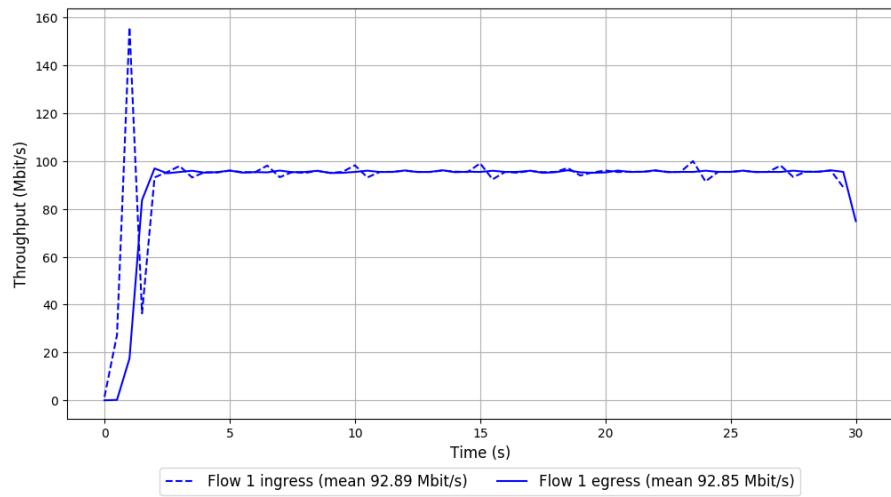


```
Run 1: Statistics of FillP

Start at: 2019-07-18 04:56:31
End at: 2019-07-18 04:57:01
Local clock offset: -7.374 ms
Remote clock offset: -8.896 ms

# Below is generated by plot.py at 2019-07-18 07:13:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 118.514 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 118.514 ms
Loss rate: 0.63%
```

Run 1: Report of FillP — Data Link

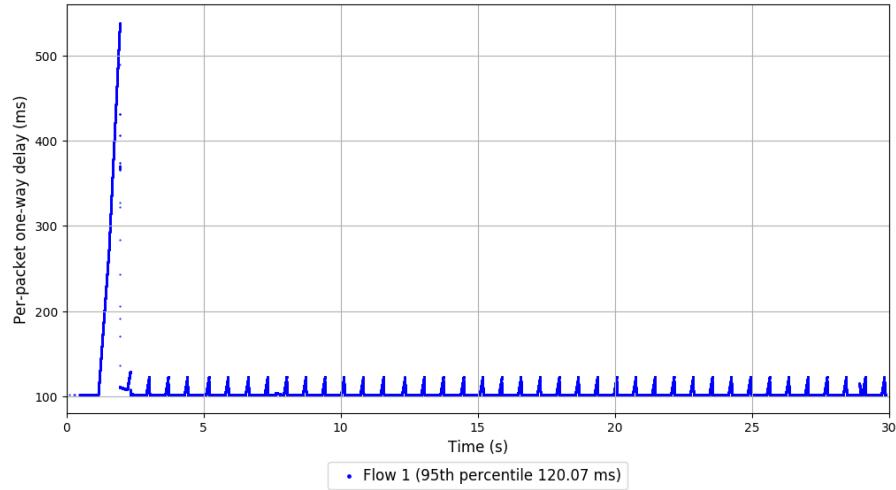
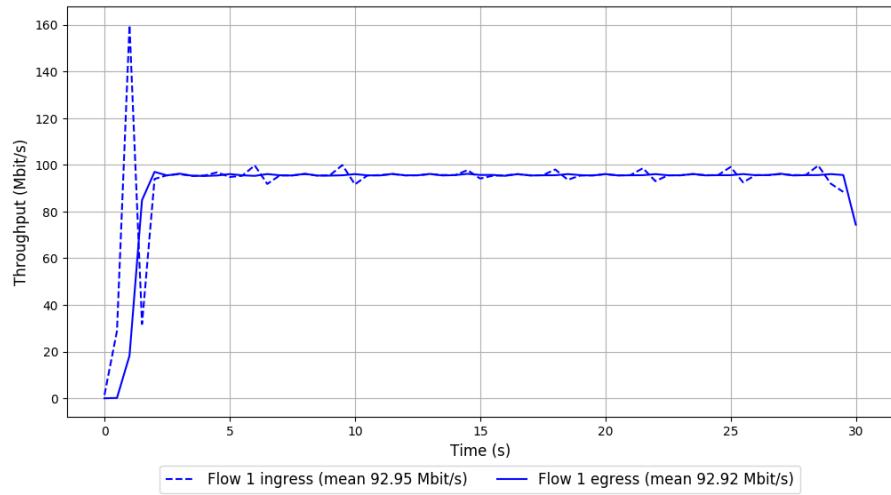


Run 2: Statistics of FillP

```
Start at: 2019-07-18 05:25:05
End at: 2019-07-18 05:25:35
Local clock offset: -6.498 ms
Remote clock offset: -9.309 ms

# Below is generated by plot.py at 2019-07-18 07:13:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.92 Mbit/s
95th percentile per-packet one-way delay: 120.072 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.92 Mbit/s
95th percentile per-packet one-way delay: 120.072 ms
Loss rate: 0.61%
```

Run 2: Report of FillP — Data Link

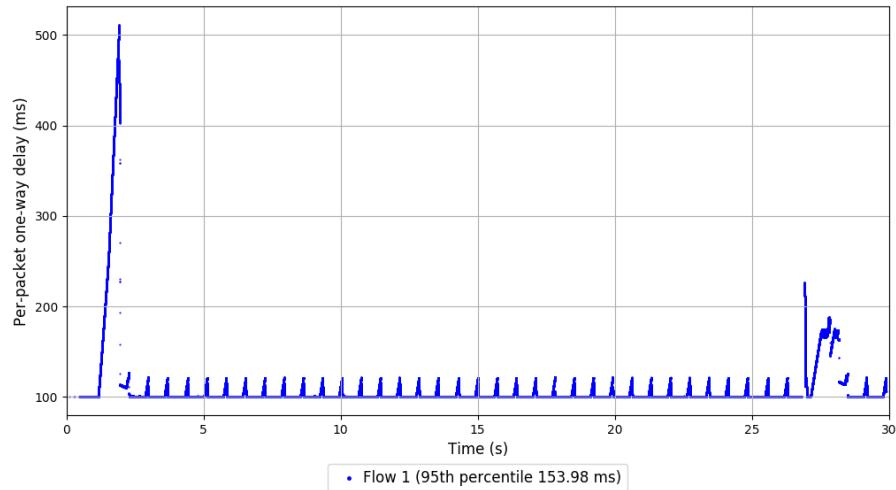
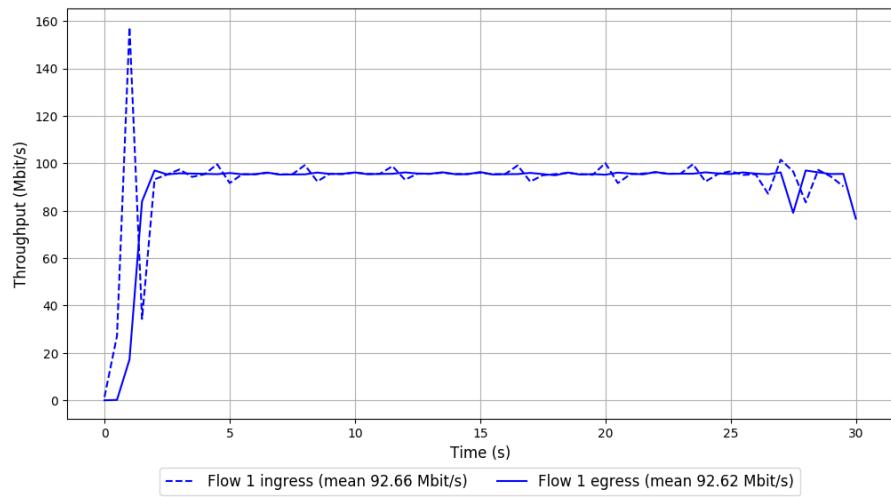


Run 3: Statistics of FillP

```
Start at: 2019-07-18 05:53:45
End at: 2019-07-18 05:54:15
Local clock offset: -5.793 ms
Remote clock offset: -8.198 ms

# Below is generated by plot.py at 2019-07-18 07:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.62 Mbit/s
95th percentile per-packet one-way delay: 153.979 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 92.62 Mbit/s
95th percentile per-packet one-way delay: 153.979 ms
Loss rate: 0.62%
```

Run 3: Report of FillP — Data Link

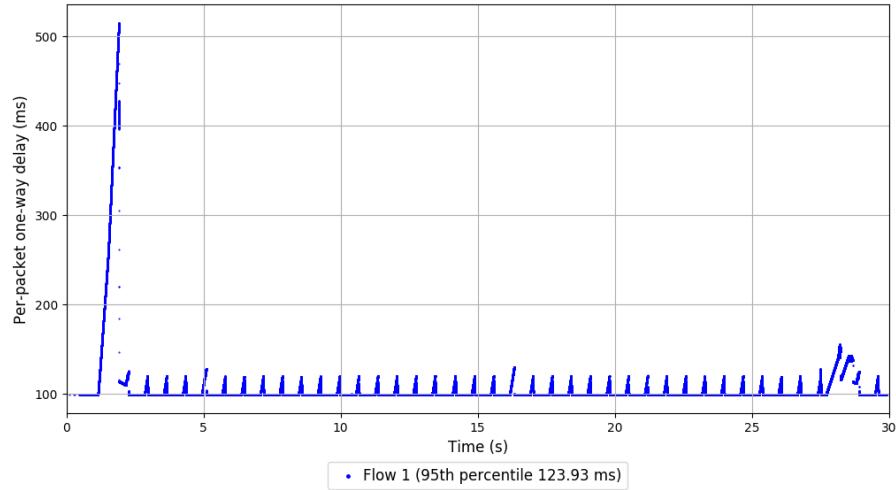
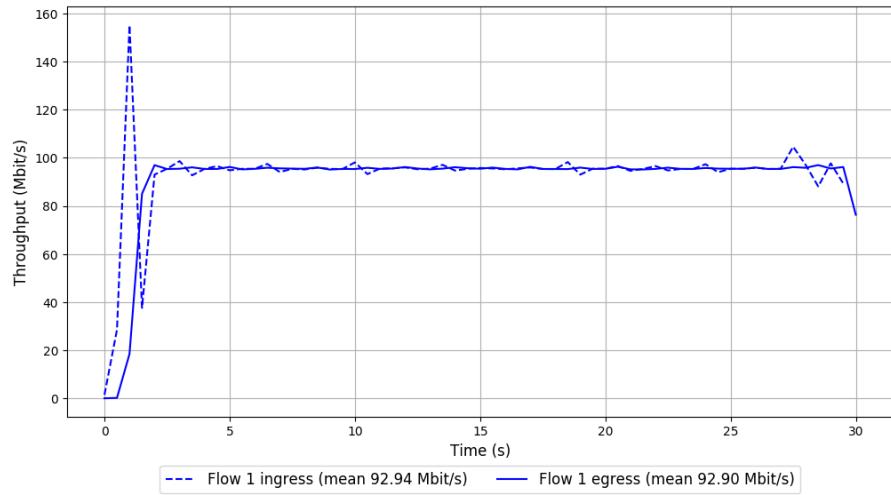


Run 4: Statistics of FillP

```
Start at: 2019-07-18 06:22:22
End at: 2019-07-18 06:22:52
Local clock offset: -7.874 ms
Remote clock offset: -7.696 ms

# Below is generated by plot.py at 2019-07-18 07:13:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 123.926 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 123.926 ms
Loss rate: 0.63%
```

Run 4: Report of FillP — Data Link

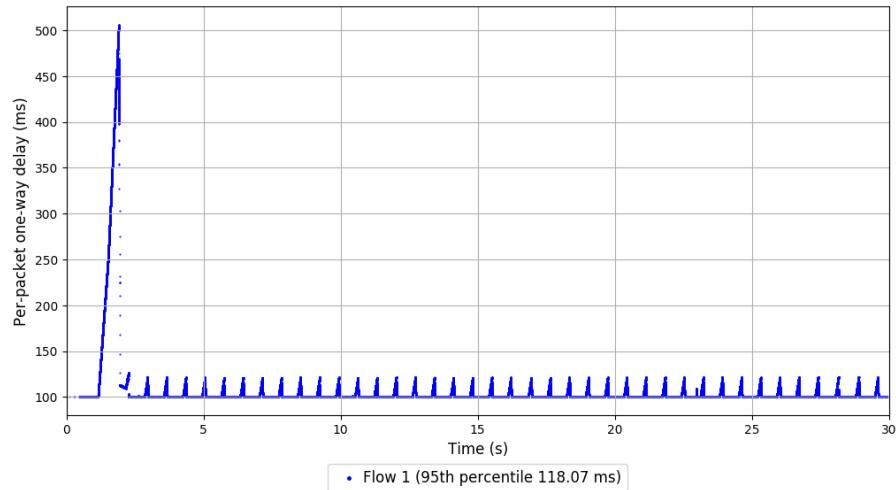
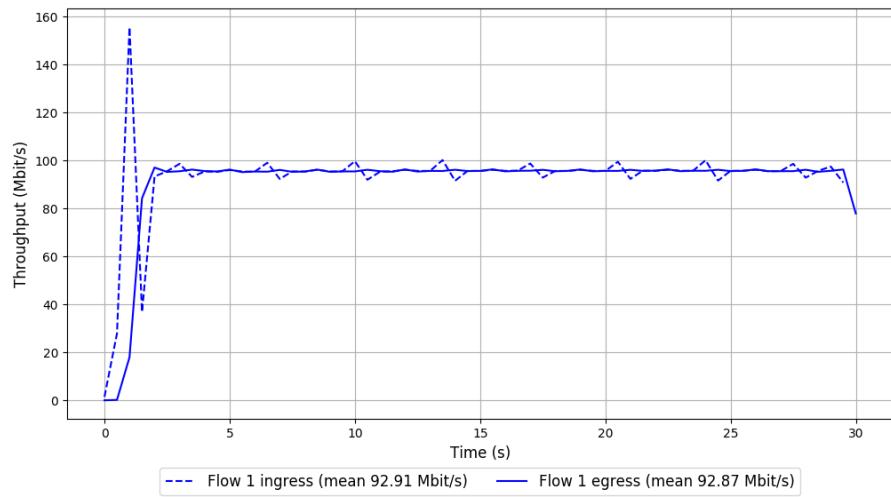


Run 5: Statistics of FillP

```
Start at: 2019-07-18 06:50:58
End at: 2019-07-18 06:51:28
Local clock offset: -6.711 ms
Remote clock offset: -6.352 ms

# Below is generated by plot.py at 2019-07-18 07:13:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.87 Mbit/s
95th percentile per-packet one-way delay: 118.071 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 92.87 Mbit/s
95th percentile per-packet one-way delay: 118.071 ms
Loss rate: 0.62%
```

Run 5: Report of FillP — Data Link

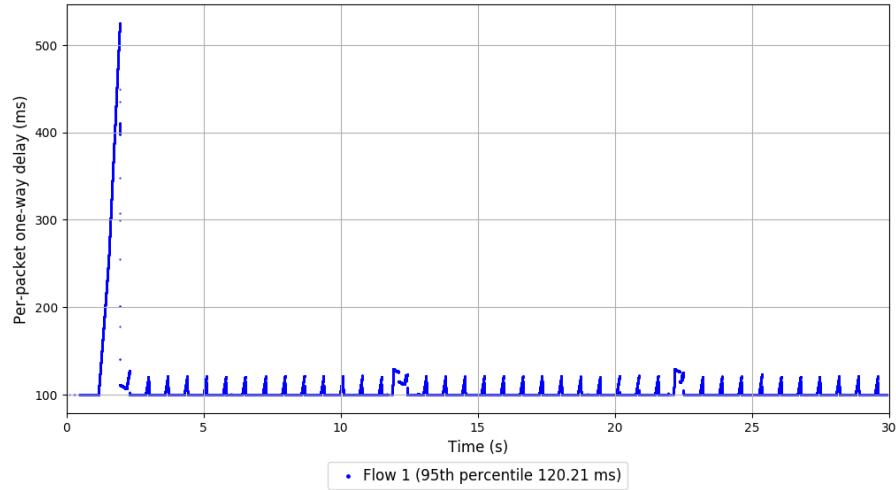
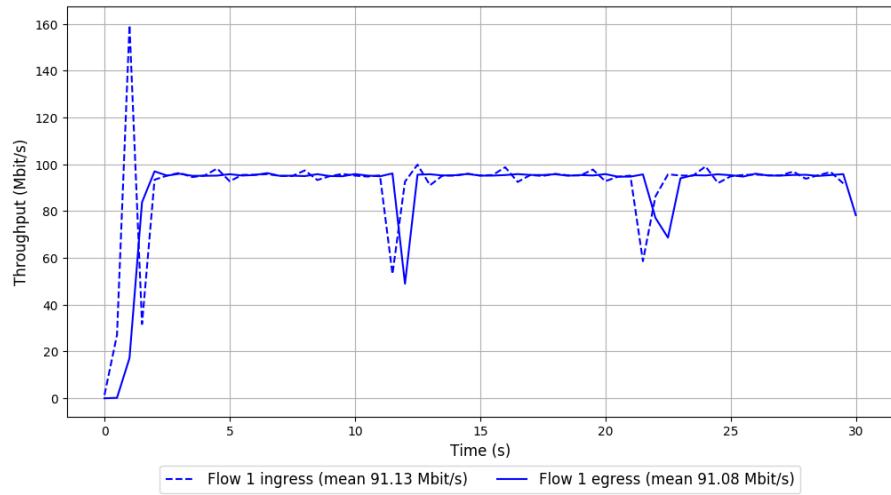


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-07-18 04:57:43
End at: 2019-07-18 04:58:13
Local clock offset: -6.495 ms
Remote clock offset: -7.102 ms

# Below is generated by plot.py at 2019-07-18 07:14:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.08 Mbit/s
95th percentile per-packet one-way delay: 120.211 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 91.08 Mbit/s
95th percentile per-packet one-way delay: 120.211 ms
Loss rate: 0.63%
```

Run 1: Report of FillP-Sheep — Data Link

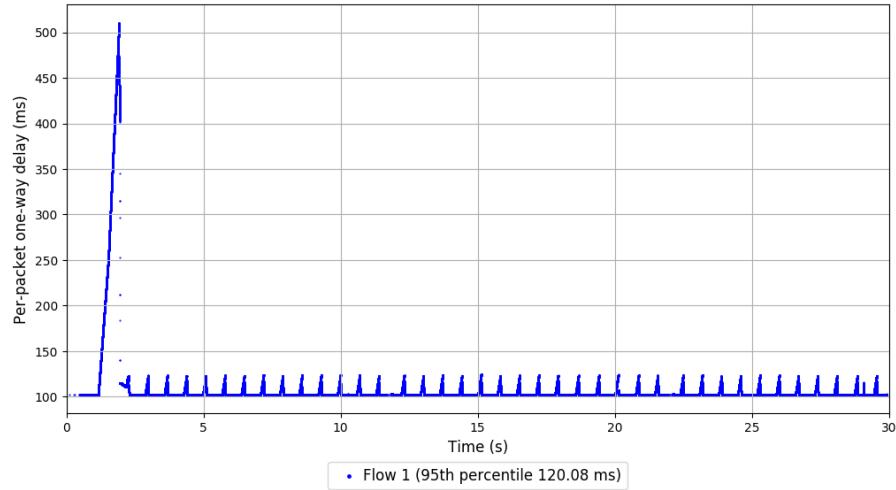
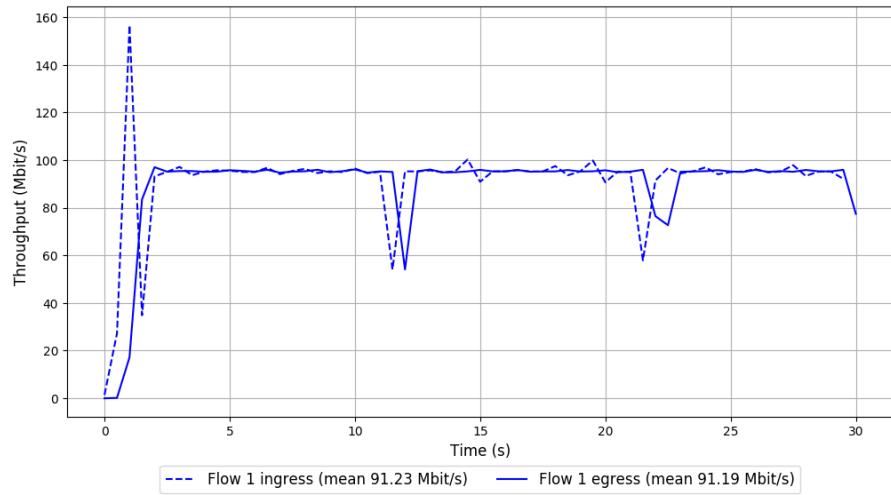


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-07-18 05:26:16
End at: 2019-07-18 05:26:46
Local clock offset: -6.165 ms
Remote clock offset: -9.554 ms

# Below is generated by plot.py at 2019-07-18 07:14:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.19 Mbit/s
95th percentile per-packet one-way delay: 120.080 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 91.19 Mbit/s
95th percentile per-packet one-way delay: 120.080 ms
Loss rate: 0.62%
```

Run 2: Report of FillP-Sheep — Data Link

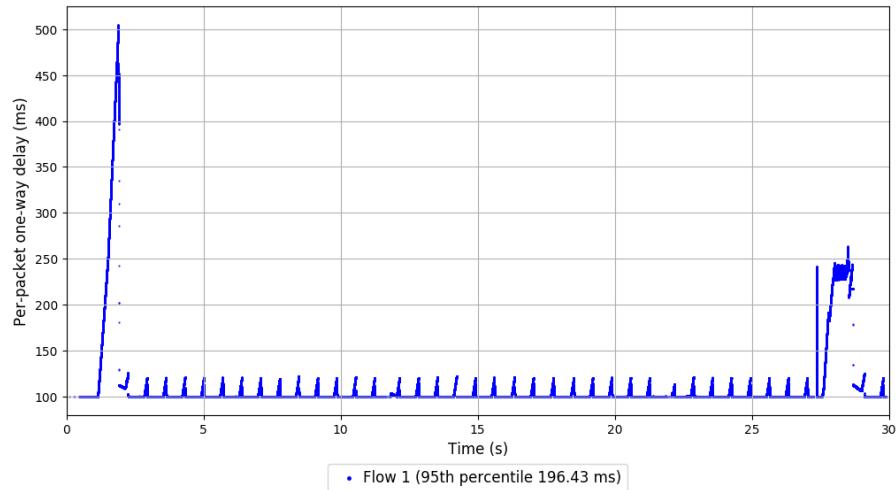
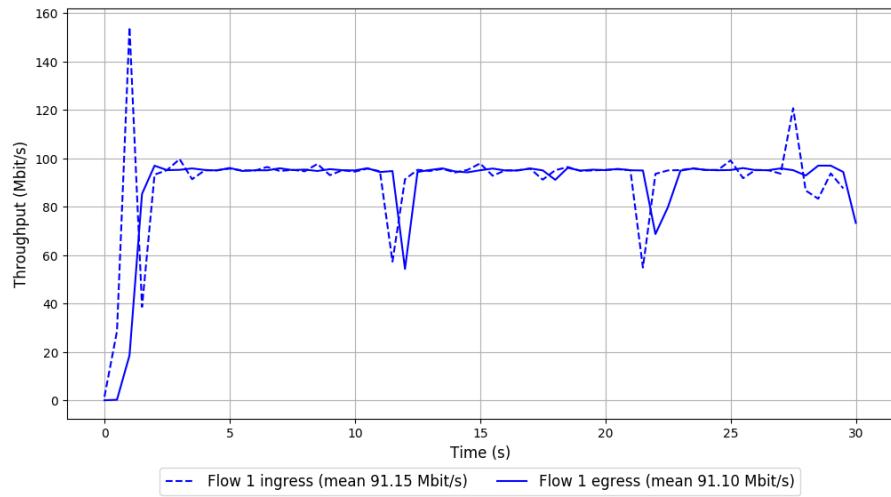


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-07-18 05:54:57
End at: 2019-07-18 05:55:27
Local clock offset: -6.85 ms
Remote clock offset: -9.046 ms

# Below is generated by plot.py at 2019-07-18 07:14:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 196.432 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 196.432 ms
Loss rate: 0.65%
```

Run 3: Report of FillP-Sheep — Data Link

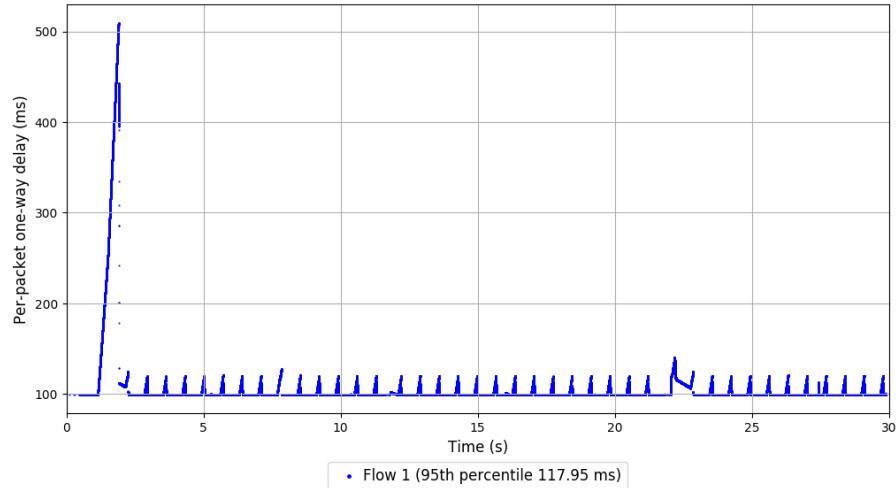
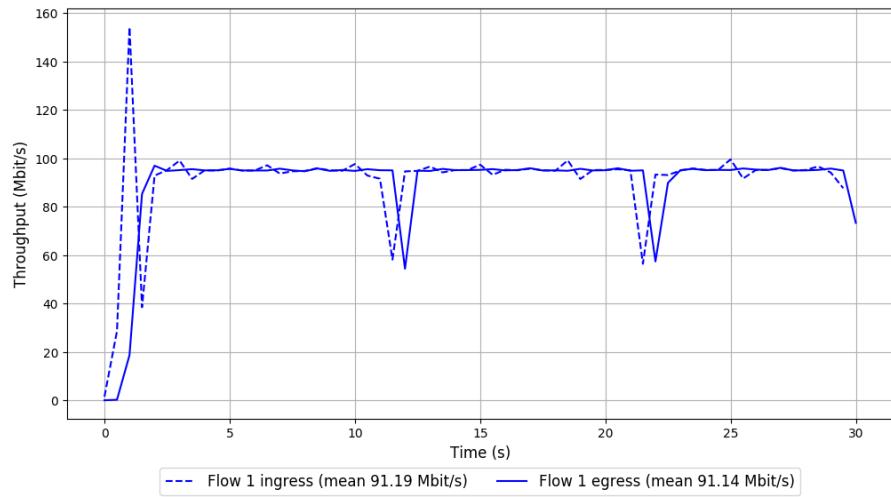


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-07-18 06:23:33
End at: 2019-07-18 06:24:03
Local clock offset: -7.095 ms
Remote clock offset: -7.751 ms

# Below is generated by plot.py at 2019-07-18 07:14:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 117.950 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 117.950 ms
Loss rate: 0.63%
```

Run 4: Report of FillP-Sheep — Data Link

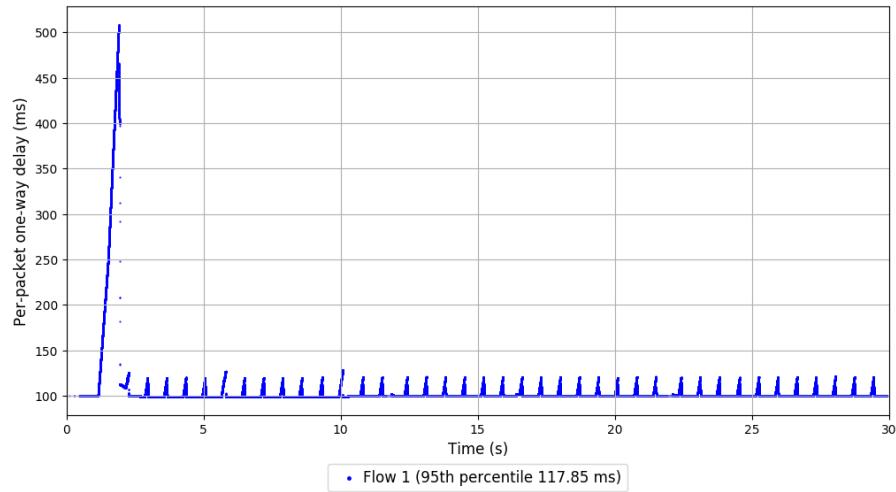
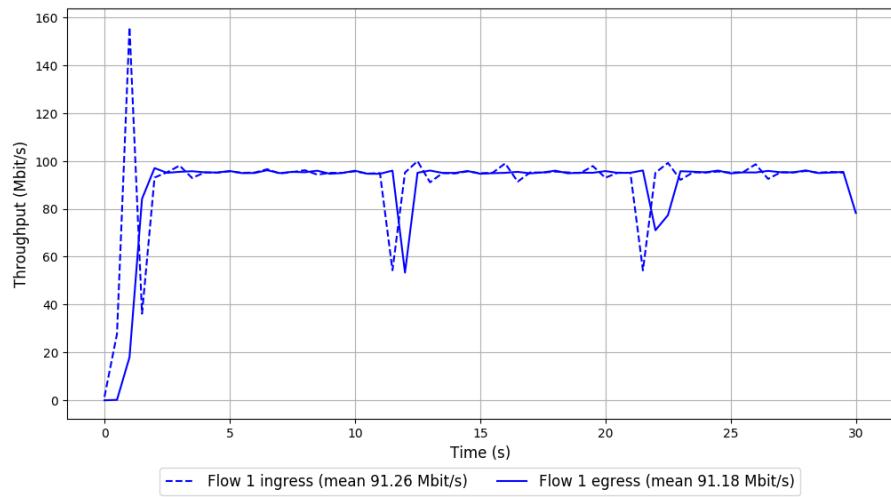


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-07-18 06:52:09
End at: 2019-07-18 06:52:39
Local clock offset: -6.093 ms
Remote clock offset: -4.724 ms

# Below is generated by plot.py at 2019-07-18 07:14:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: 117.846 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: 117.846 ms
Loss rate: 0.67%
```

Run 5: Report of FillP-Sheep — Data Link

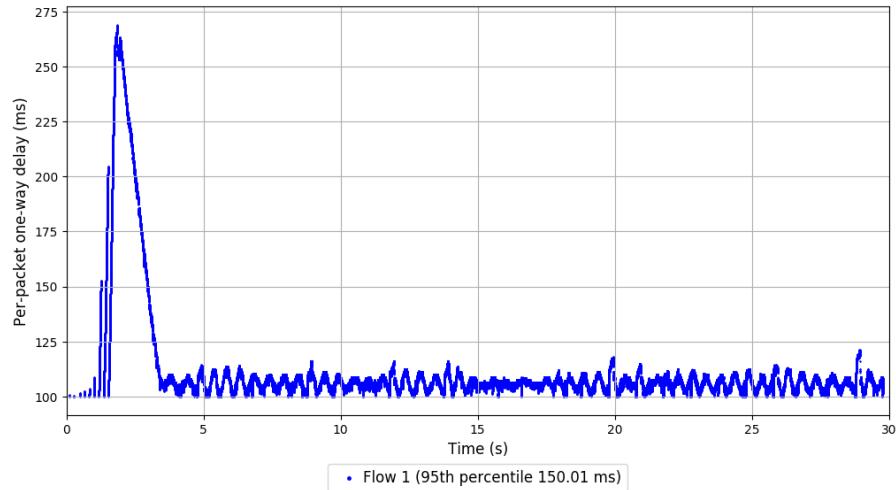
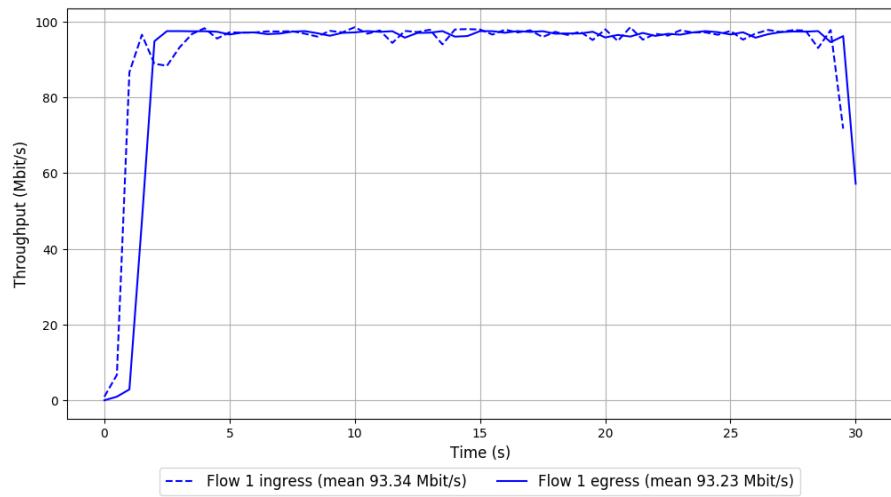


Run 1: Statistics of Indigo

```
Start at: 2019-07-18 04:49:16
End at: 2019-07-18 04:49:46
Local clock offset: -7.384 ms
Remote clock offset: -8.266 ms

# Below is generated by plot.py at 2019-07-18 07:14:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.23 Mbit/s
95th percentile per-packet one-way delay: 150.007 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 93.23 Mbit/s
95th percentile per-packet one-way delay: 150.007 ms
Loss rate: 0.70%
```

Run 1: Report of Indigo — Data Link

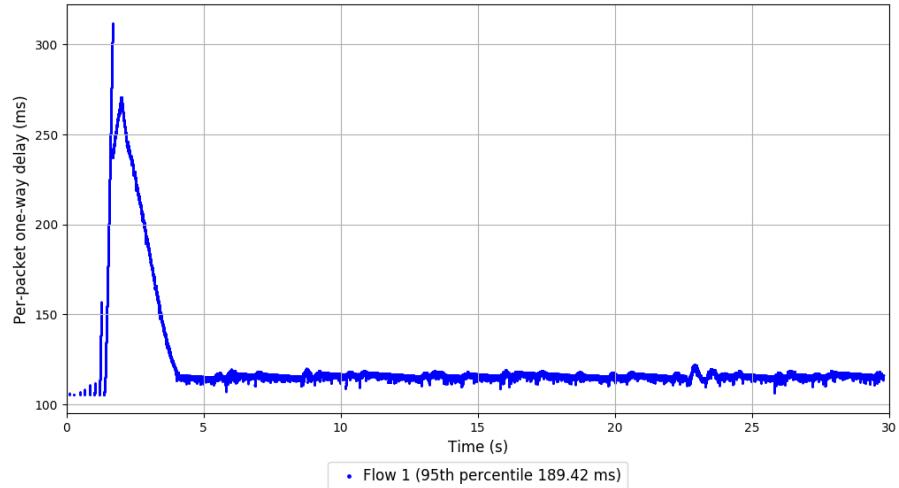
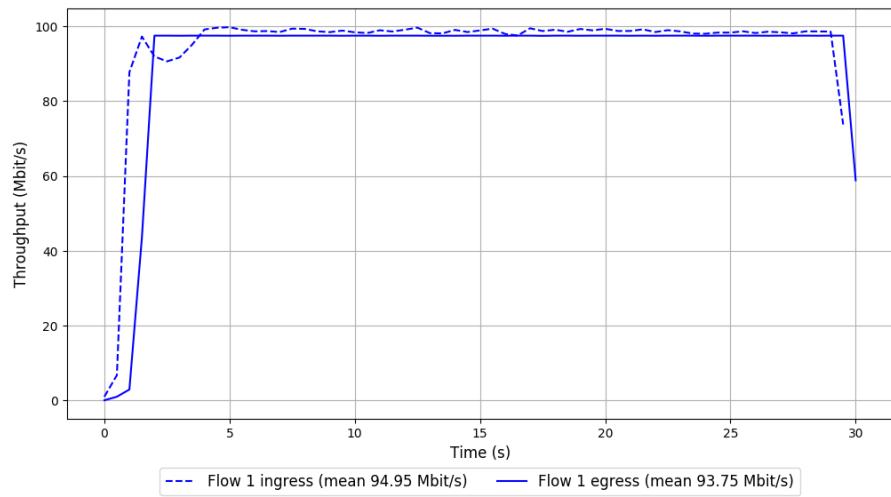


Run 2: Statistics of Indigo

```
Start at: 2019-07-18 05:17:54
End at: 2019-07-18 05:18:24
Local clock offset: -6.378 ms
Remote clock offset: -11.709 ms

# Below is generated by plot.py at 2019-07-18 07:14:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 189.418 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 189.418 ms
Loss rate: 1.85%
```

Run 2: Report of Indigo — Data Link

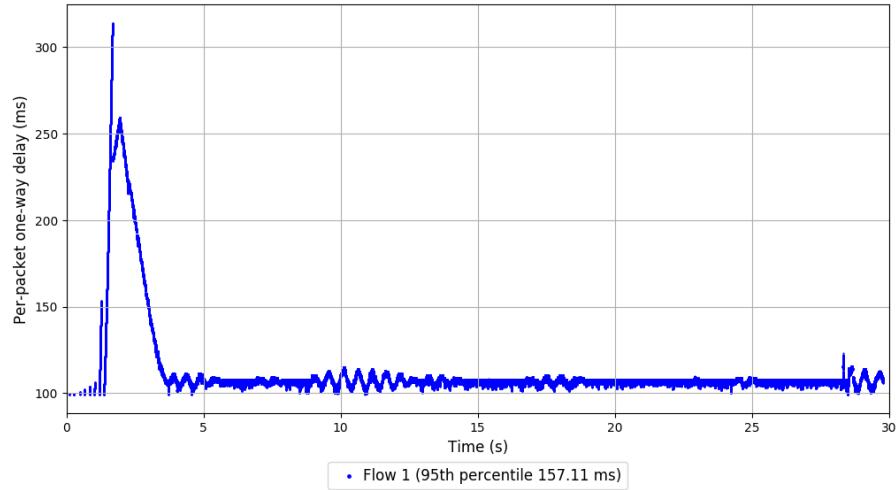
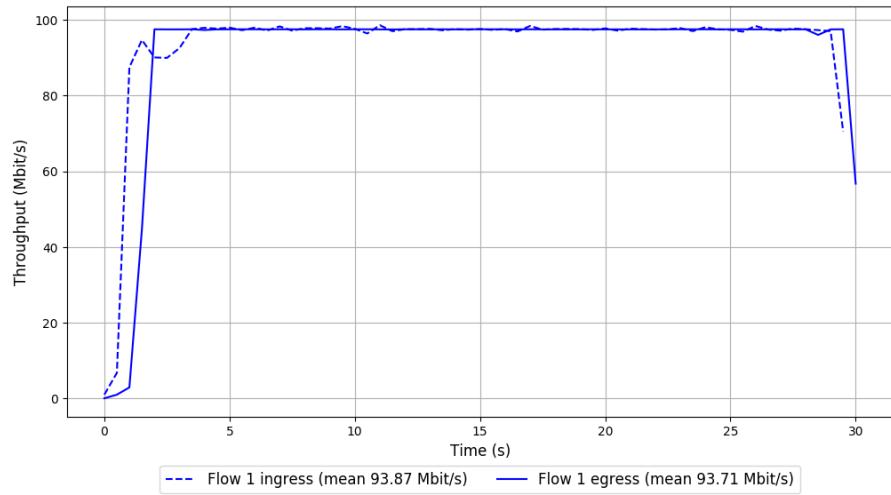


Run 3: Statistics of Indigo

```
Start at: 2019-07-18 05:46:33
End at: 2019-07-18 05:47:03
Local clock offset: -5.837 ms
Remote clock offset: -8.102 ms

# Below is generated by plot.py at 2019-07-18 07:15:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 157.108 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 157.108 ms
Loss rate: 0.75%
```

Run 3: Report of Indigo — Data Link

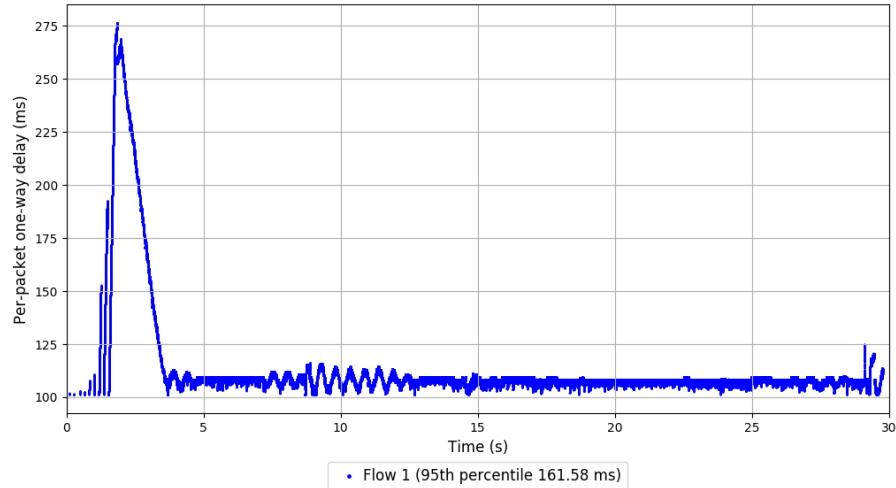
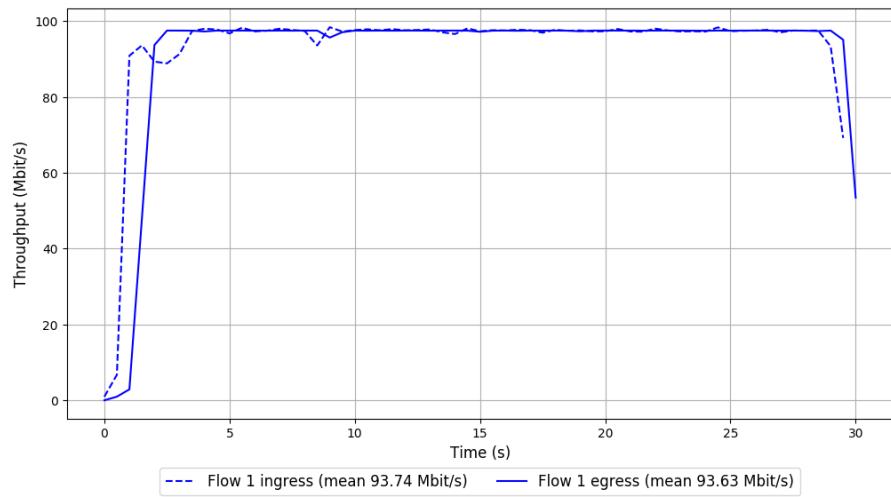


Run 4: Statistics of Indigo

```
Start at: 2019-07-18 06:15:10
End at: 2019-07-18 06:15:40
Local clock offset: -7.74 ms
Remote clock offset: -10.506 ms

# Below is generated by plot.py at 2019-07-18 07:15:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 161.578 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 161.578 ms
Loss rate: 0.70%
```

Run 4: Report of Indigo — Data Link

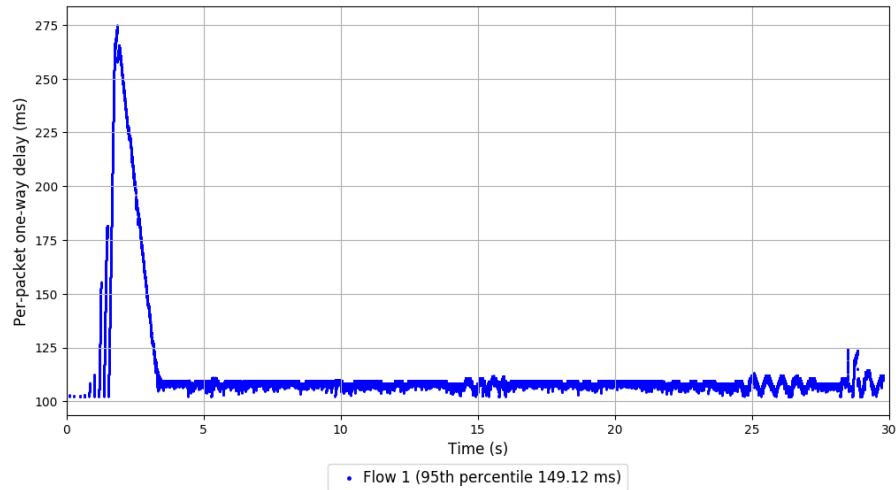
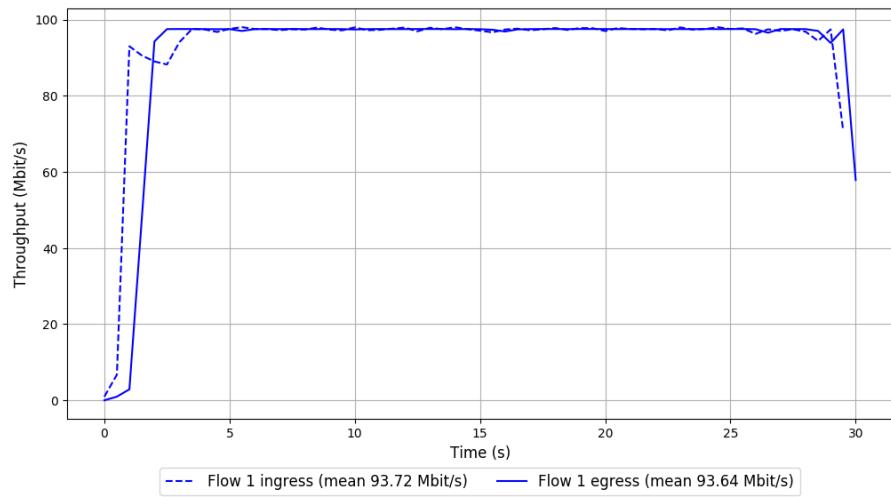


Run 5: Statistics of Indigo

```
Start at: 2019-07-18 06:43:47
End at: 2019-07-18 06:44:17
Local clock offset: -6.161 ms
Remote clock offset: -8.166 ms

# Below is generated by plot.py at 2019-07-18 07:15:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.64 Mbit/s
95th percentile per-packet one-way delay: 149.122 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 93.64 Mbit/s
95th percentile per-packet one-way delay: 149.122 ms
Loss rate: 0.66%
```

Run 5: Report of Indigo — Data Link

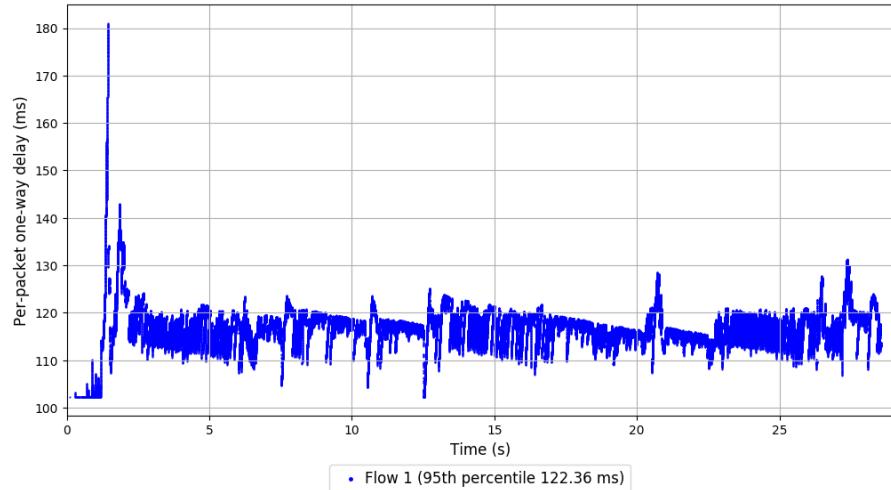
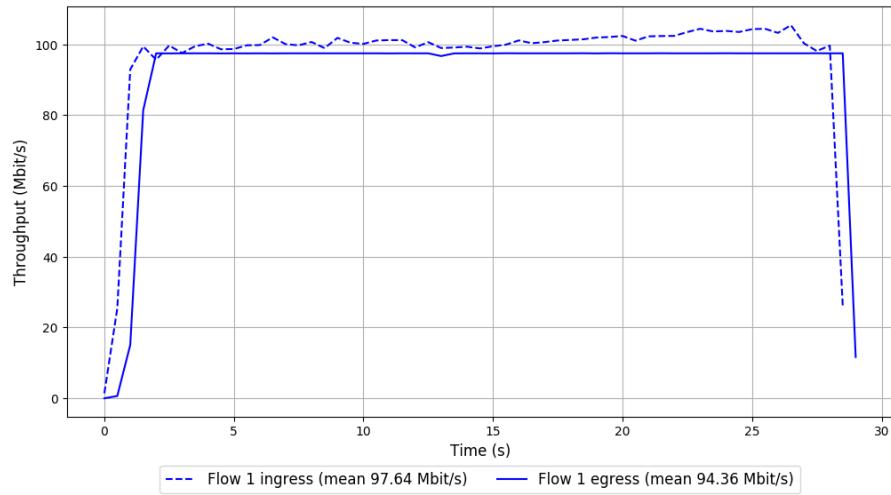


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-07-18 04:50:30
End at: 2019-07-18 04:51:00
Local clock offset: -6.468 ms
Remote clock offset: -10.211 ms

# Below is generated by plot.py at 2019-07-18 07:15:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.36 Mbit/s
95th percentile per-packet one-way delay: 122.362 ms
Loss rate: 3.95%
-- Flow 1:
Average throughput: 94.36 Mbit/s
95th percentile per-packet one-way delay: 122.362 ms
Loss rate: 3.95%
```

Run 1: Report of Indigo-MusesC3 — Data Link

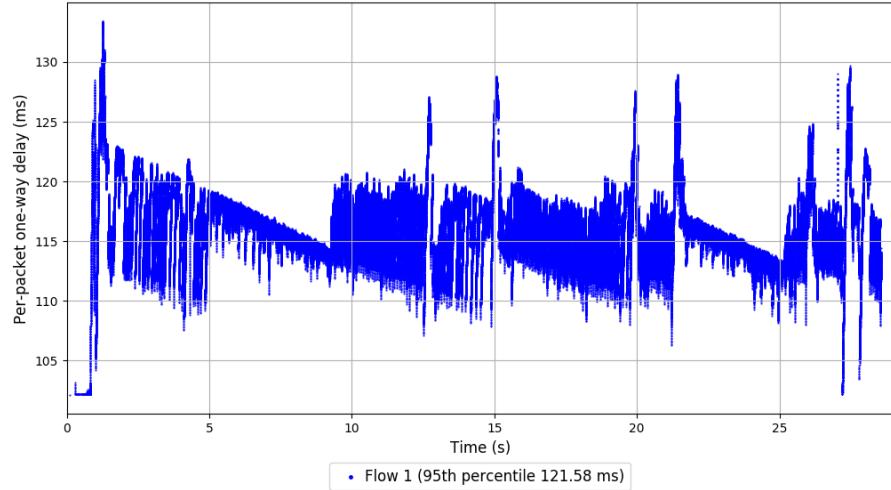
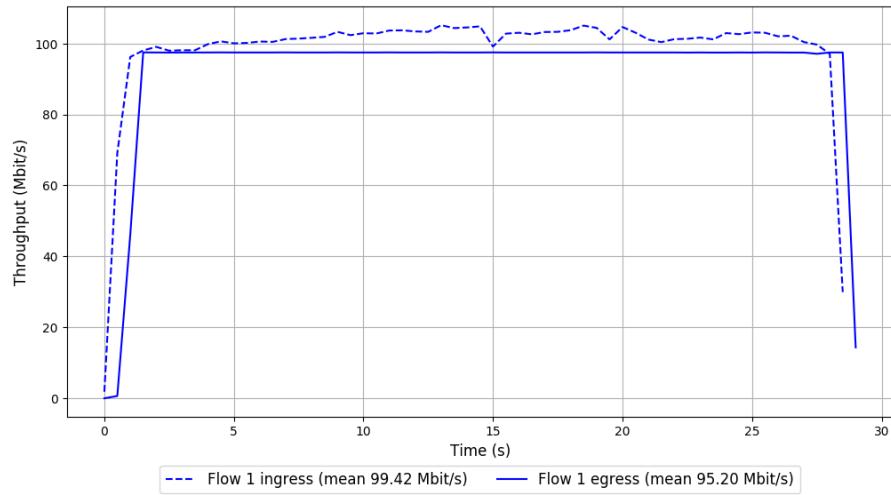


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-07-18 05:19:07
End at: 2019-07-18 05:19:37
Local clock offset: -6.165 ms
Remote clock offset: -8.397 ms

# Below is generated by plot.py at 2019-07-18 07:15:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 121.576 ms
Loss rate: 4.83%
-- Flow 1:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 121.576 ms
Loss rate: 4.83%
```

Run 2: Report of Indigo-MusesC3 — Data Link

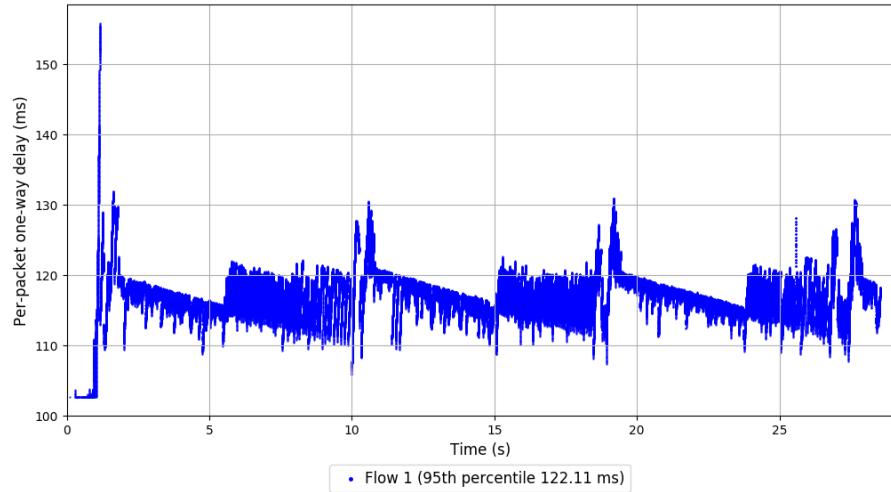
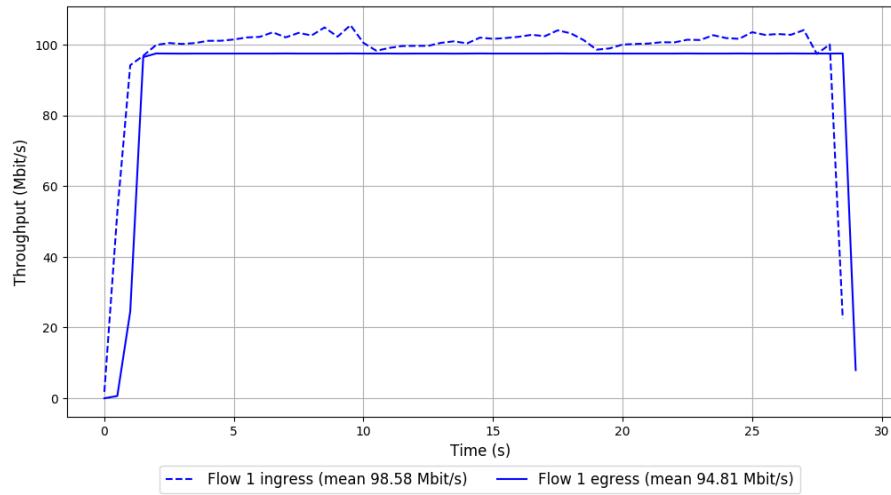


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-07-18 05:47:47
End at: 2019-07-18 05:48:17
Local clock offset: -6.55 ms
Remote clock offset: -11.646 ms

# Below is generated by plot.py at 2019-07-18 07:15:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.81 Mbit/s
95th percentile per-packet one-way delay: 122.111 ms
Loss rate: 4.41%
-- Flow 1:
Average throughput: 94.81 Mbit/s
95th percentile per-packet one-way delay: 122.111 ms
Loss rate: 4.41%
```

Run 3: Report of Indigo-MusesC3 — Data Link

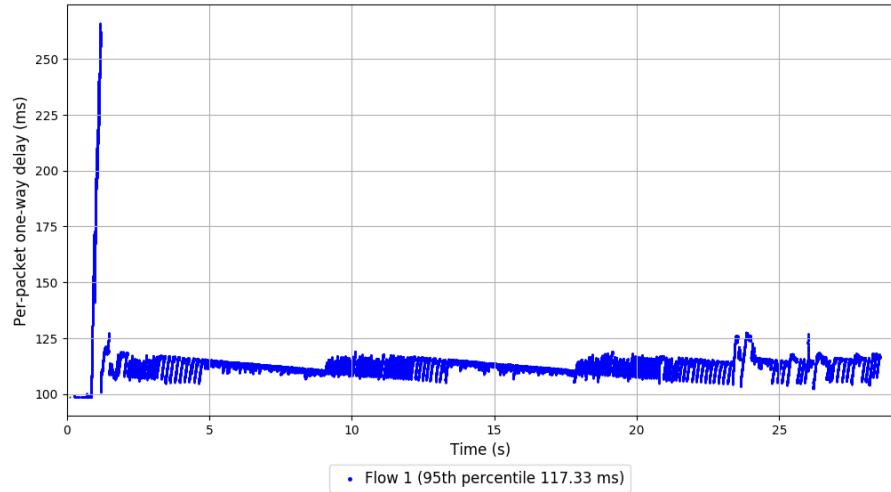
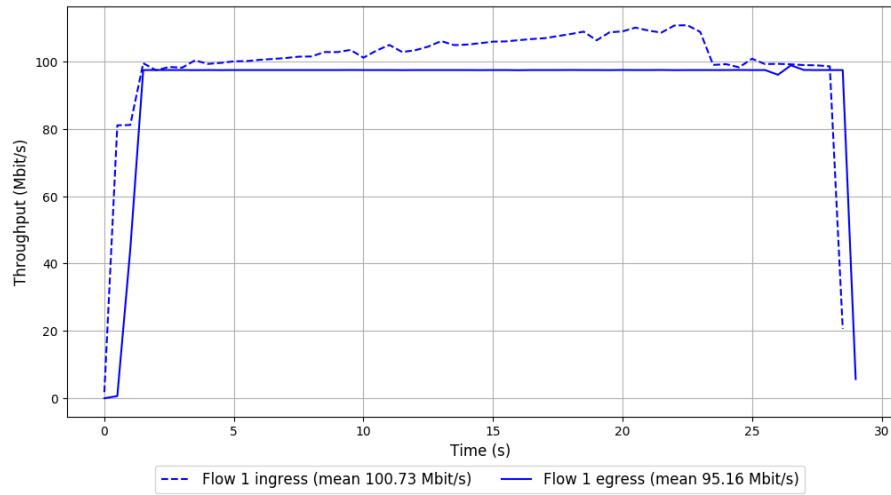


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-07-18 06:16:23
End at: 2019-07-18 06:16:53
Local clock offset: -7.927 ms
Remote clock offset: -7.772 ms

# Below is generated by plot.py at 2019-07-18 07:15:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 117.335 ms
Loss rate: 6.11%
-- Flow 1:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 117.335 ms
Loss rate: 6.11%
```

Run 4: Report of Indigo-MusesC3 — Data Link

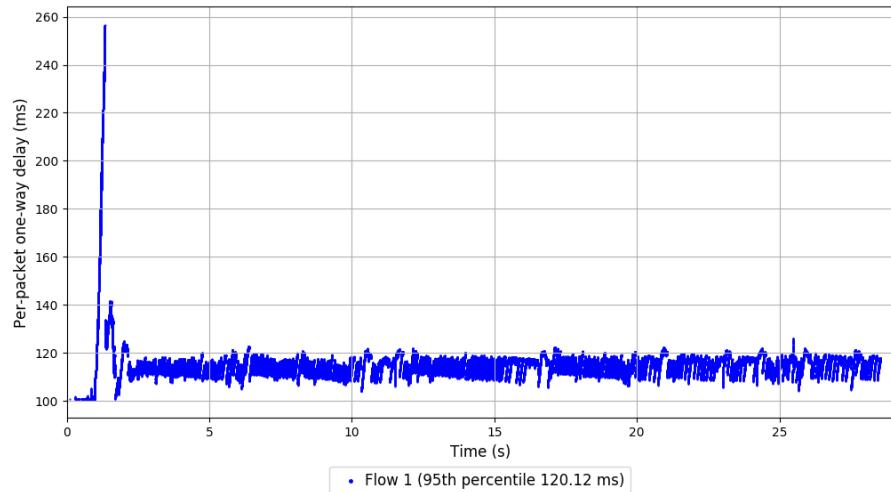
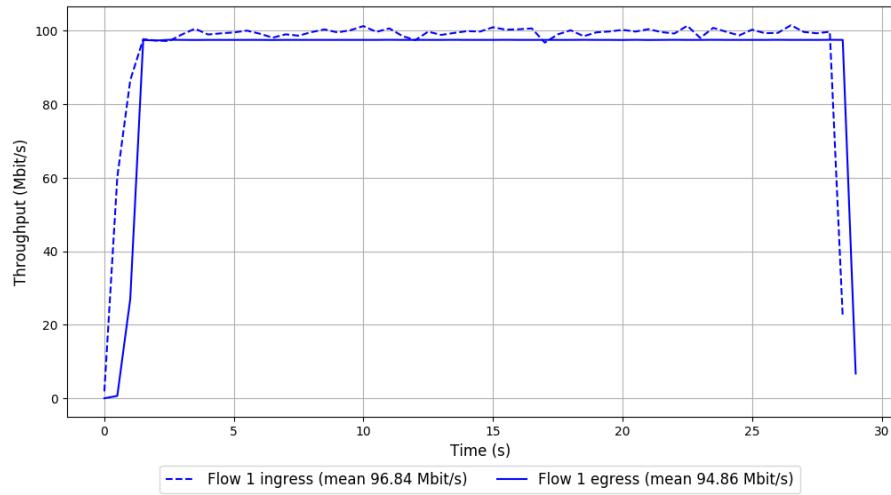


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-07-18 06:45:01
End at: 2019-07-18 06:45:31
Local clock offset: -6.773 ms
Remote clock offset: -7.398 ms

# Below is generated by plot.py at 2019-07-18 07:15:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.86 Mbit/s
95th percentile per-packet one-way delay: 120.123 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 94.86 Mbit/s
95th percentile per-packet one-way delay: 120.123 ms
Loss rate: 2.64%
```

Run 5: Report of Indigo-MusesC3 — Data Link

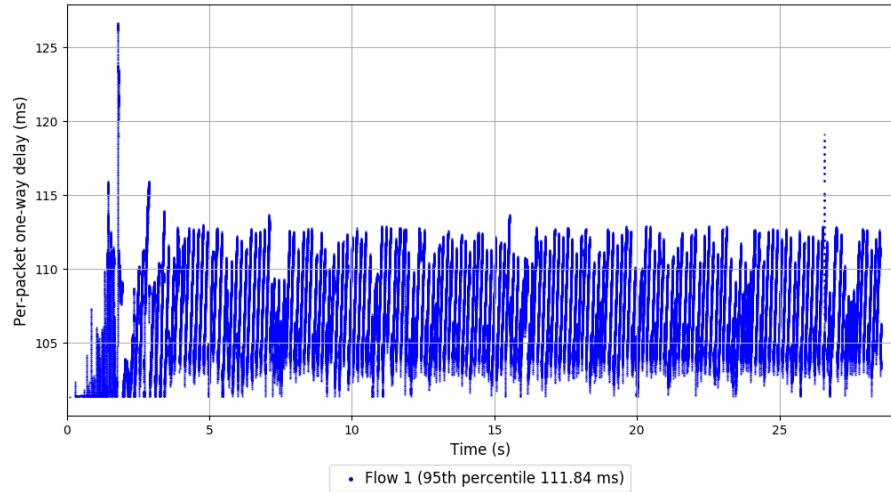
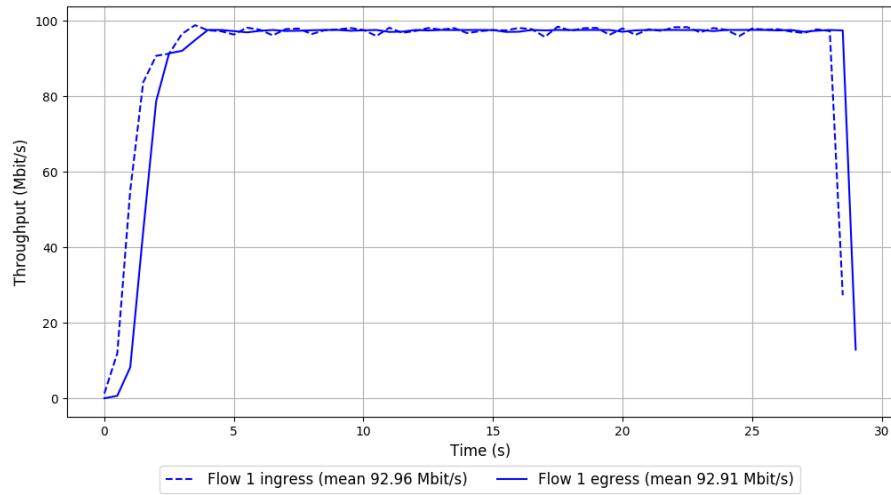


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-07-18 05:08:21
End at: 2019-07-18 05:08:51
Local clock offset: -6.832 ms
Remote clock offset: -8.765 ms

# Below is generated by plot.py at 2019-07-18 07:16:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 111.838 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 111.838 ms
Loss rate: 0.66%
```

Run 1: Report of Indigo-MusesC5 — Data Link

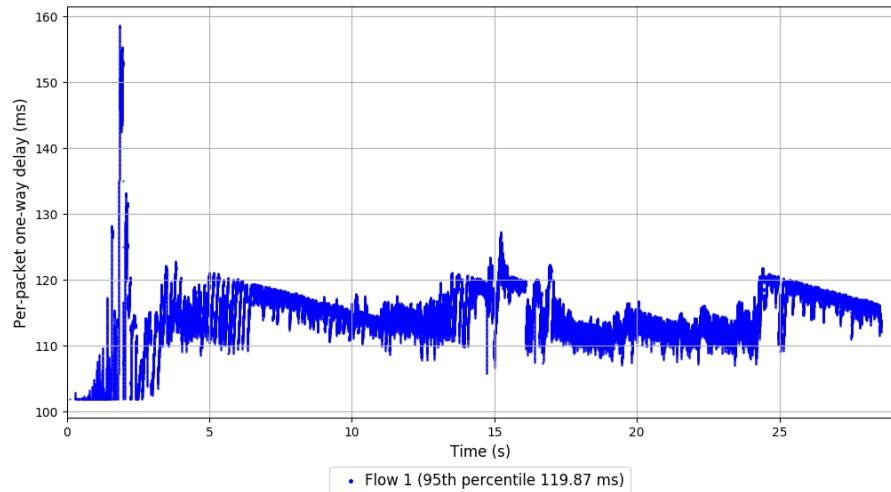
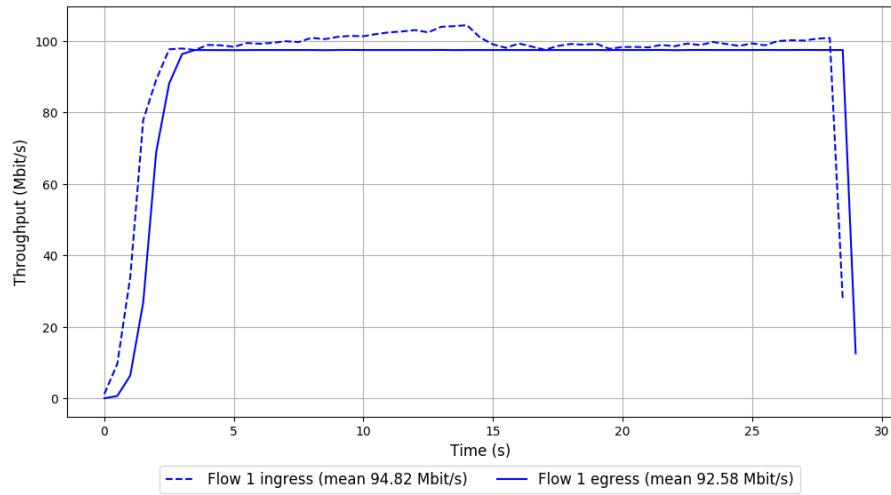


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-07-18 05:37:01
End at: 2019-07-18 05:37:31
Local clock offset: -6.056 ms
Remote clock offset: -10.23 ms

# Below is generated by plot.py at 2019-07-18 07:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.58 Mbit/s
95th percentile per-packet one-way delay: 119.869 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 92.58 Mbit/s
95th percentile per-packet one-way delay: 119.869 ms
Loss rate: 2.96%
```

Run 2: Report of Indigo-MusesC5 — Data Link

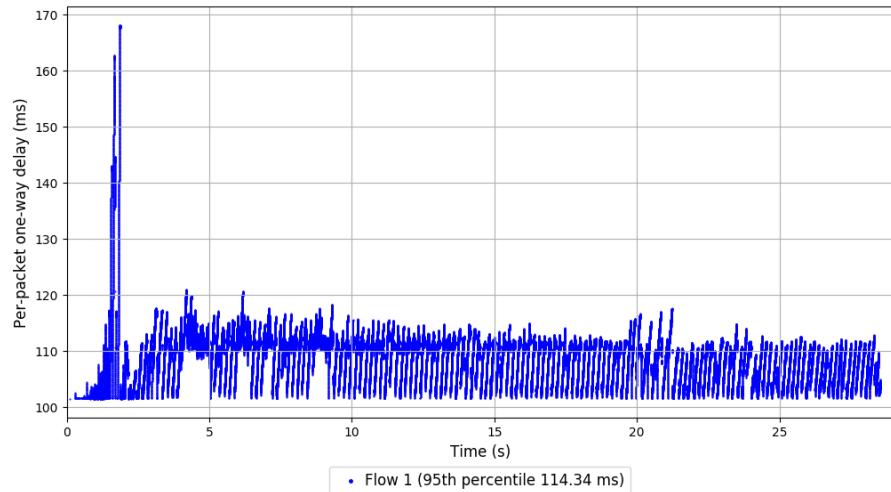
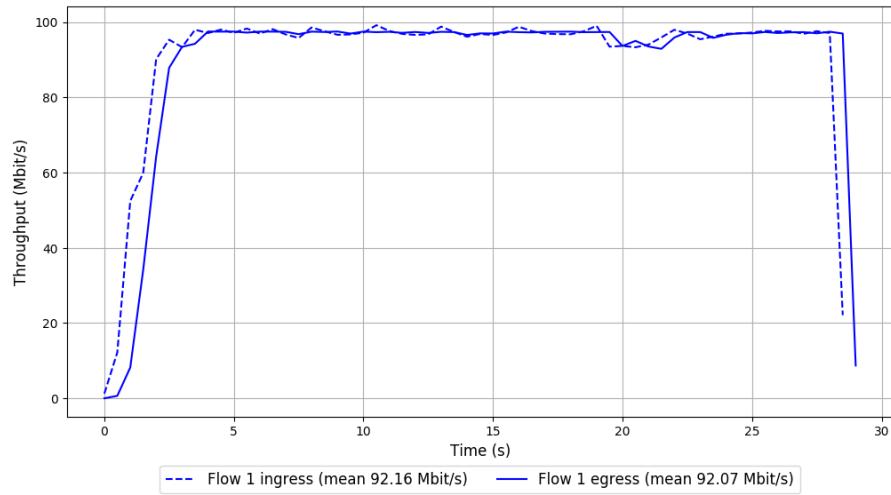


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-07-18 06:05:39
End at: 2019-07-18 06:06:09
Local clock offset: -6.555 ms
Remote clock offset: -9.88 ms

# Below is generated by plot.py at 2019-07-18 07:16:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.07 Mbit/s
95th percentile per-packet one-way delay: 114.343 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 92.07 Mbit/s
95th percentile per-packet one-way delay: 114.343 ms
Loss rate: 0.71%
```

Run 3: Report of Indigo-MusesC5 — Data Link

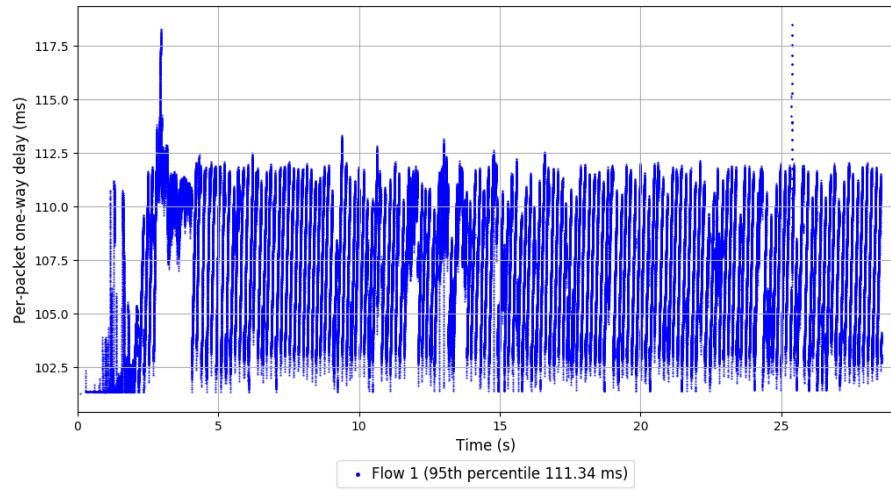
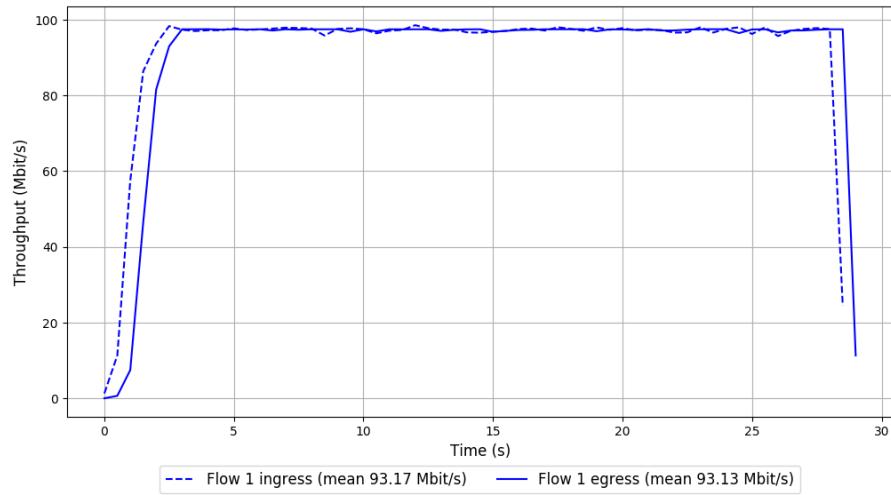


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-07-18 06:34:15
End at: 2019-07-18 06:34:45
Local clock offset: -6.444 ms
Remote clock offset: -9.097 ms

# Below is generated by plot.py at 2019-07-18 07:16:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.13 Mbit/s
95th percentile per-packet one-way delay: 111.340 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 93.13 Mbit/s
95th percentile per-packet one-way delay: 111.340 ms
Loss rate: 0.65%
```

Run 4: Report of Indigo-MusesC5 — Data Link

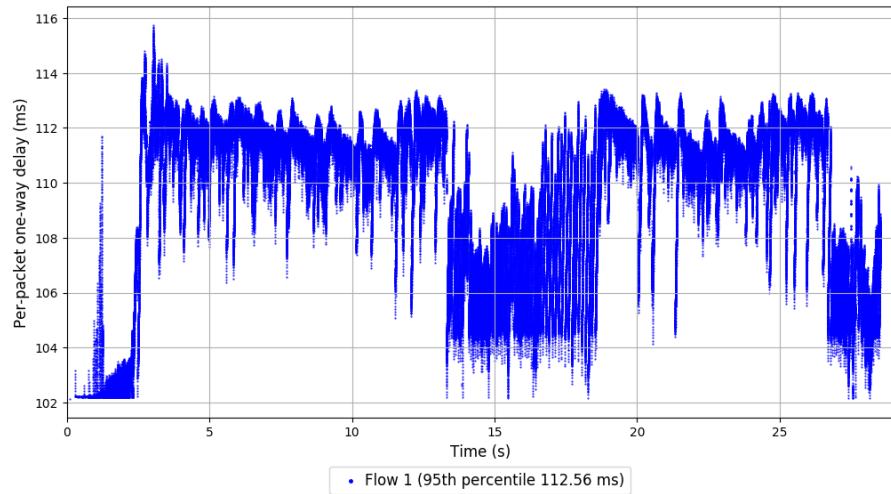
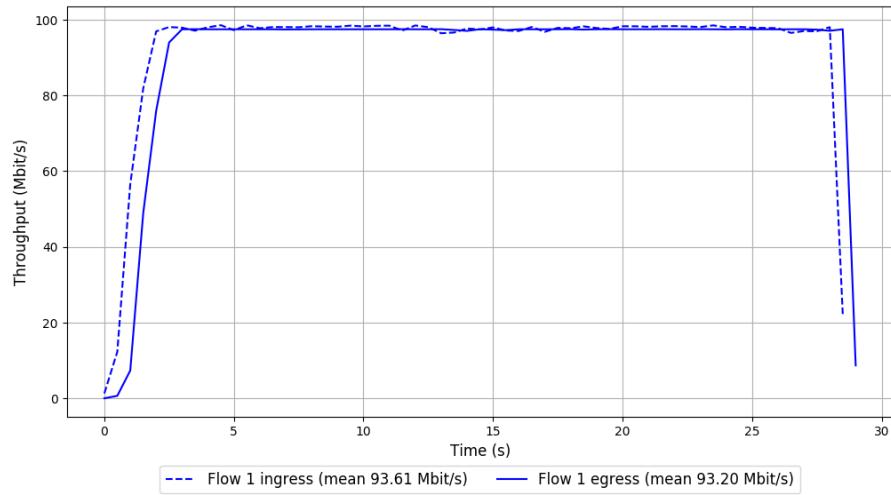


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-07-18 07:02:53
End at: 2019-07-18 07:03:23
Local clock offset: -4.862 ms
Remote clock offset: -7.399 ms

# Below is generated by plot.py at 2019-07-18 07:16:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 112.557 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 112.557 ms
Loss rate: 1.04%
```

Run 5: Report of Indigo-MusesC5 — Data Link

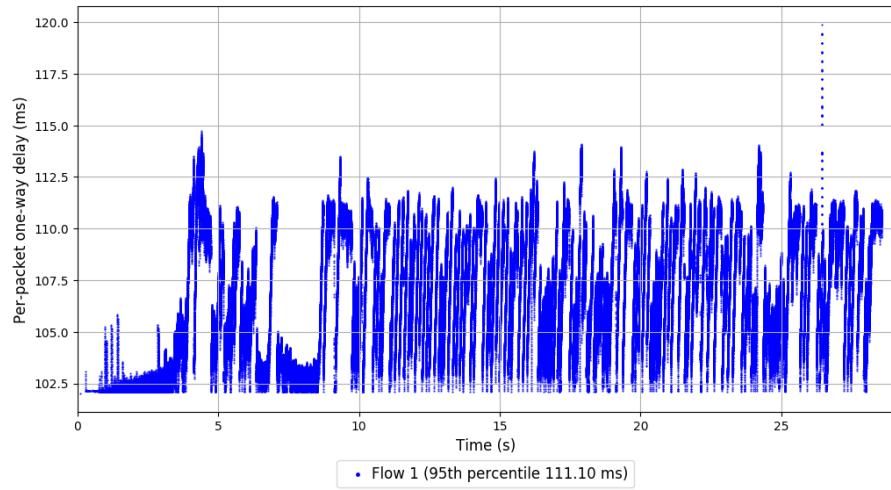
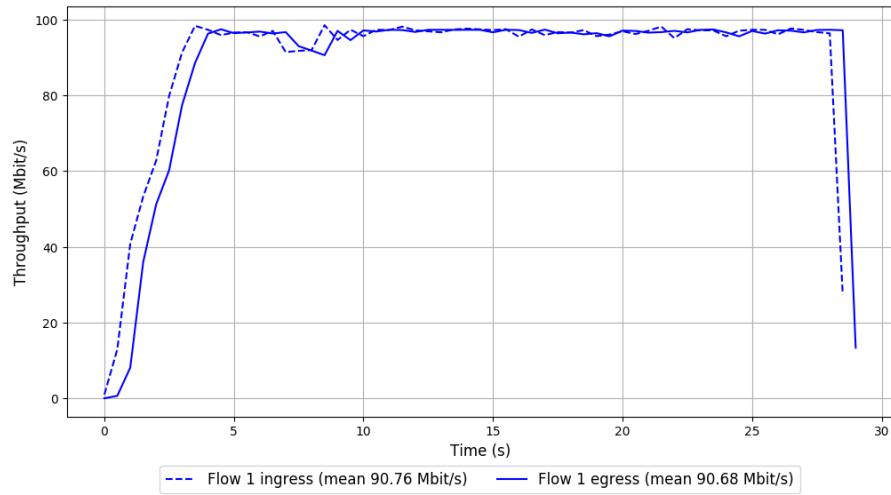


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-07-18 05:03:39
End at: 2019-07-18 05:04:09
Local clock offset: -6.078 ms
Remote clock offset: -8.773 ms

# Below is generated by plot.py at 2019-07-18 07:16:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 111.102 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 111.102 ms
Loss rate: 0.68%
```

Run 1: Report of Indigo-MusesD — Data Link

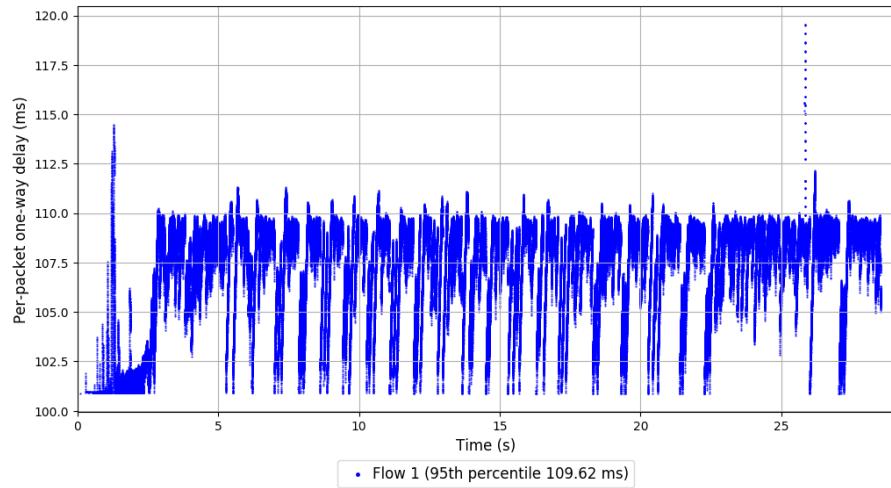
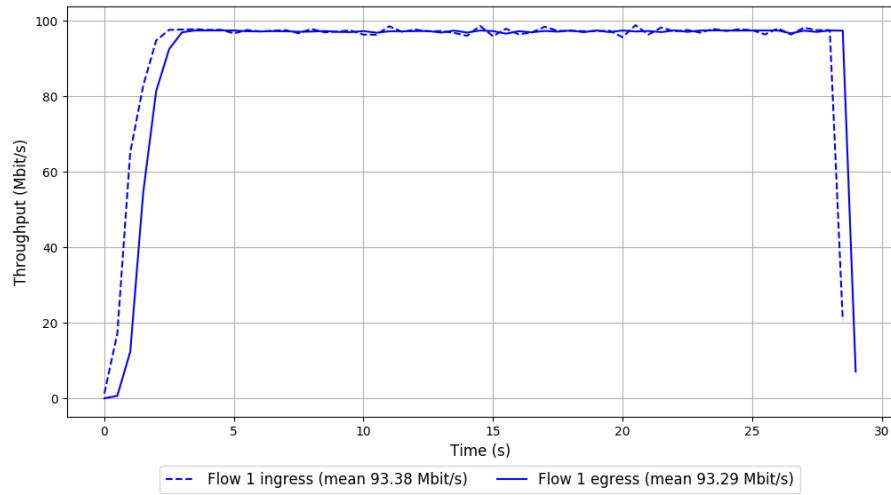


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-07-18 05:32:17
End at: 2019-07-18 05:32:47
Local clock offset: -6.683 ms
Remote clock offset: -9.441 ms

# Below is generated by plot.py at 2019-07-18 07:16:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.29 Mbit/s
95th percentile per-packet one-way delay: 109.618 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 93.29 Mbit/s
95th percentile per-packet one-way delay: 109.618 ms
Loss rate: 0.70%
```

Run 2: Report of Indigo-MusesD — Data Link

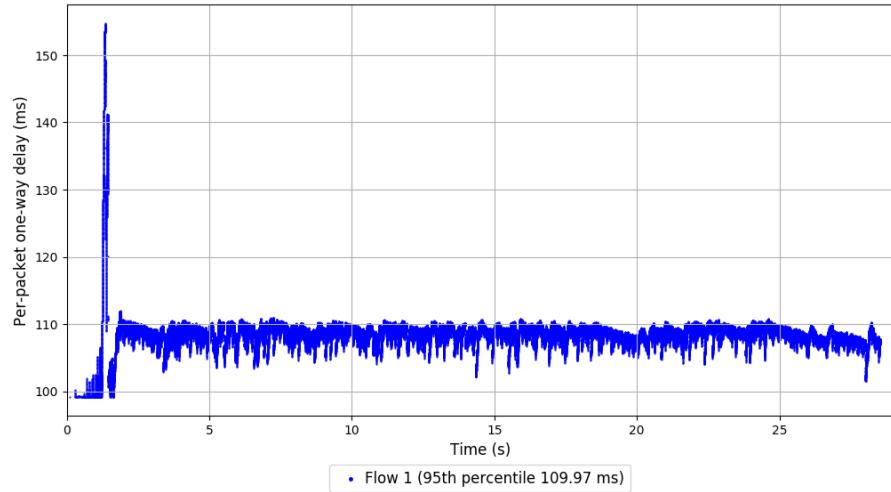
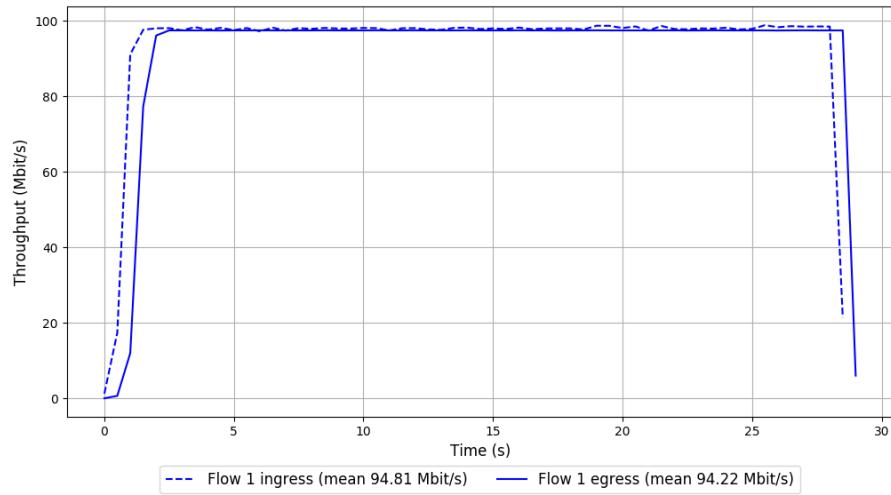


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-07-18 06:00:56
End at: 2019-07-18 06:01:26
Local clock offset: -7.092 ms
Remote clock offset: -8.097 ms

# Below is generated by plot.py at 2019-07-18 07:16:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.22 Mbit/s
95th percentile per-packet one-way delay: 109.968 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 94.22 Mbit/s
95th percentile per-packet one-way delay: 109.968 ms
Loss rate: 1.23%
```

Run 3: Report of Indigo-MusesD — Data Link

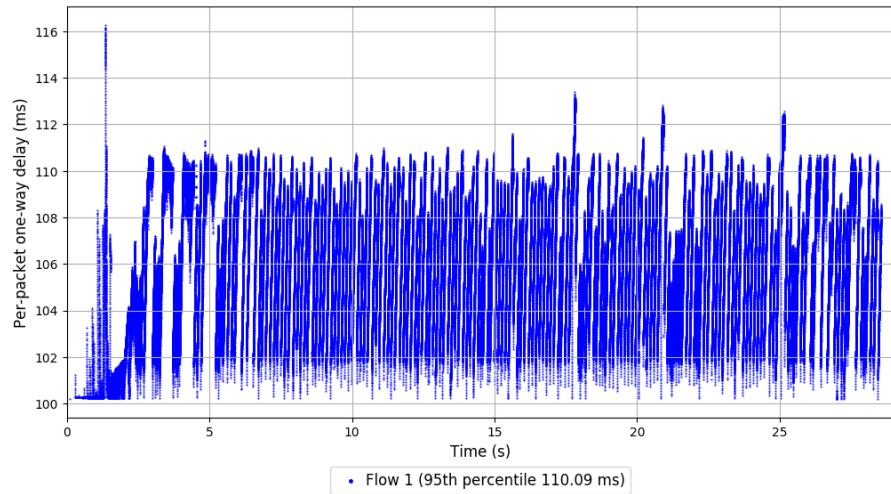
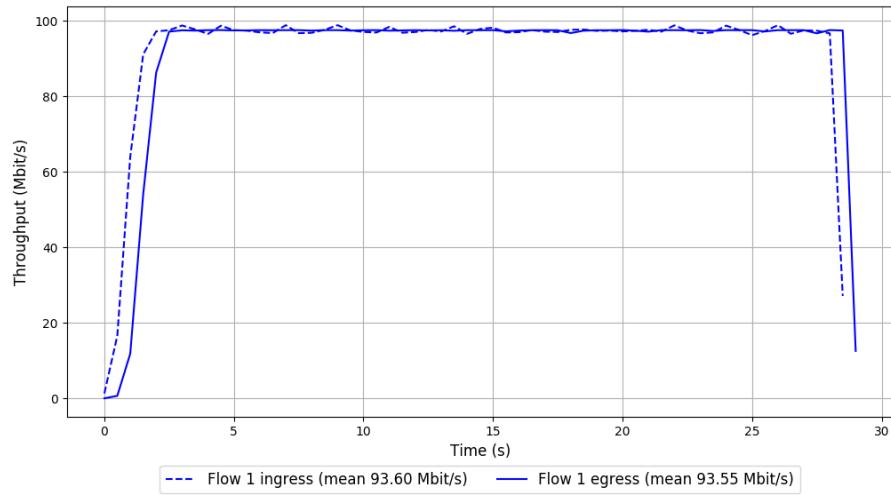


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-07-18 06:29:33
End at: 2019-07-18 06:30:03
Local clock offset: -7.37 ms
Remote clock offset: -9.435 ms

# Below is generated by plot.py at 2019-07-18 07:17:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.55 Mbit/s
95th percentile per-packet one-way delay: 110.093 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 93.55 Mbit/s
95th percentile per-packet one-way delay: 110.093 ms
Loss rate: 0.66%
```

Run 4: Report of Indigo-MusesD — Data Link

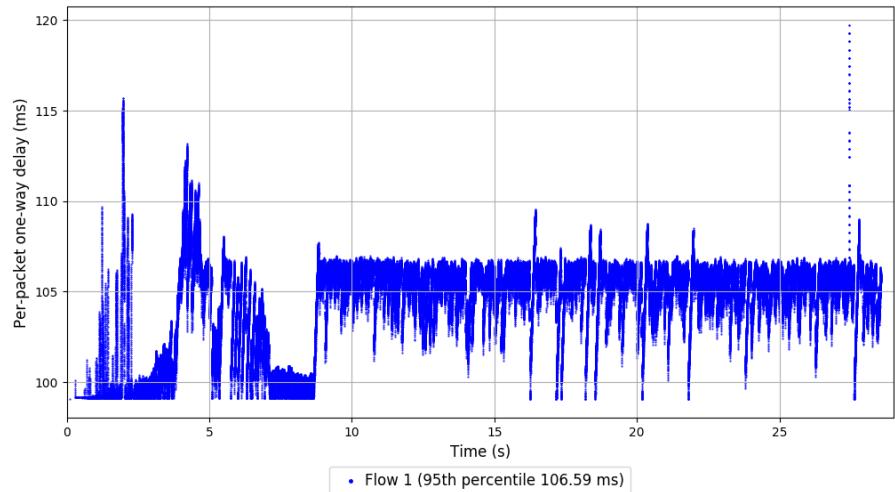
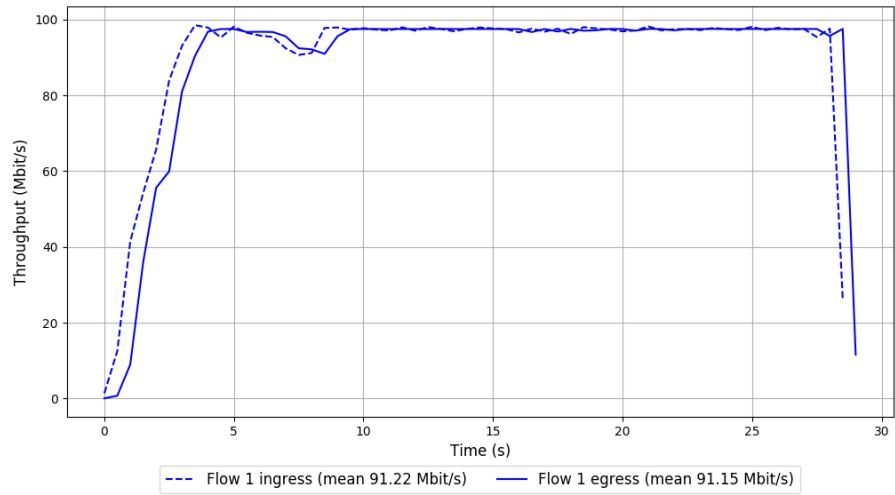


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-07-18 06:58:10
End at: 2019-07-18 06:58:41
Local clock offset: -4.965 ms
Remote clock offset: -4.145 ms

# Below is generated by plot.py at 2019-07-18 07:17:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.15 Mbit/s
95th percentile per-packet one-way delay: 106.591 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 91.15 Mbit/s
95th percentile per-packet one-way delay: 106.591 ms
Loss rate: 0.68%
```

Run 5: Report of Indigo-MusesD — Data Link

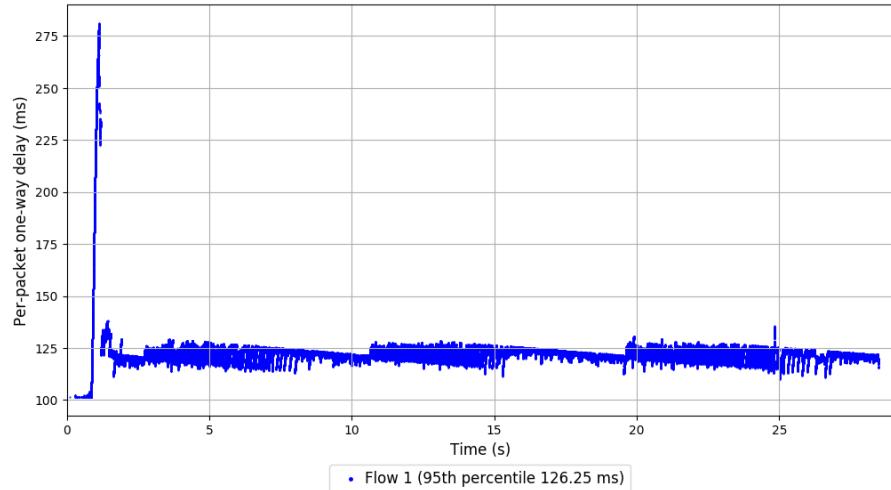
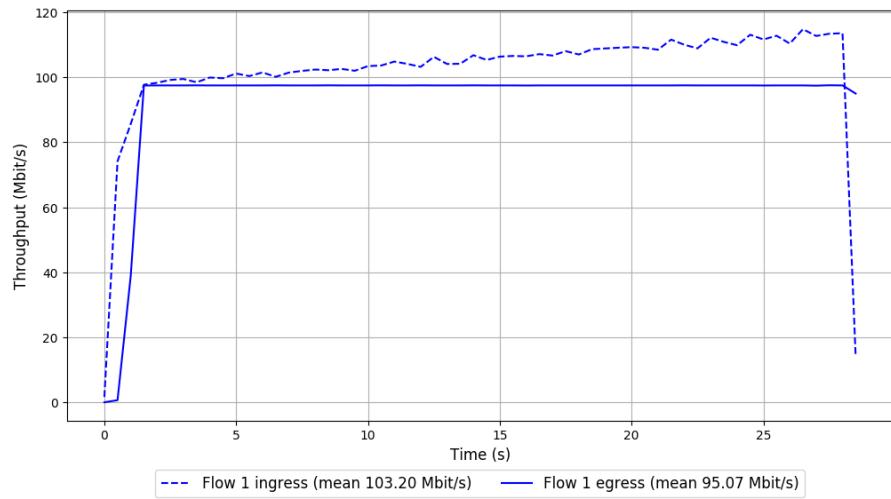


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-07-18 04:48:03
End at: 2019-07-18 04:48:33
Local clock offset: -7.134 ms
Remote clock offset: -10.27 ms

# Below is generated by plot.py at 2019-07-18 07:17:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 126.251 ms
Loss rate: 8.44%
-- Flow 1:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 126.251 ms
Loss rate: 8.44%
```

Run 1: Report of Indigo-MusesT — Data Link

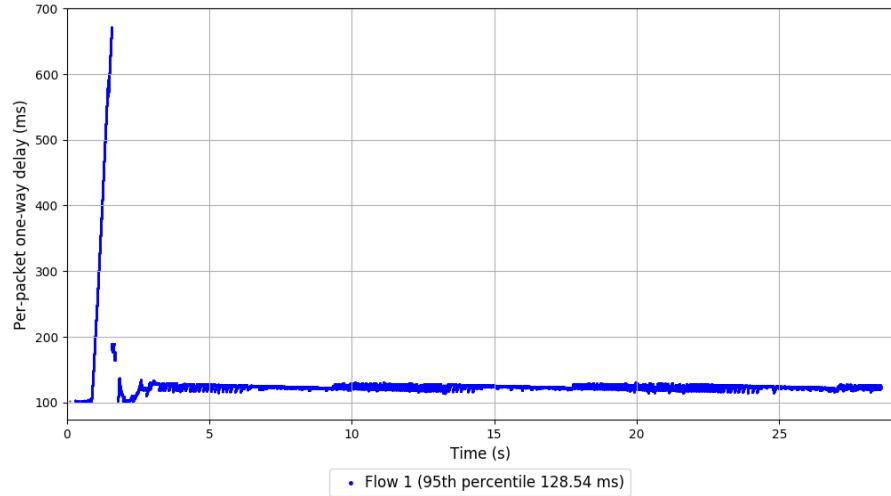
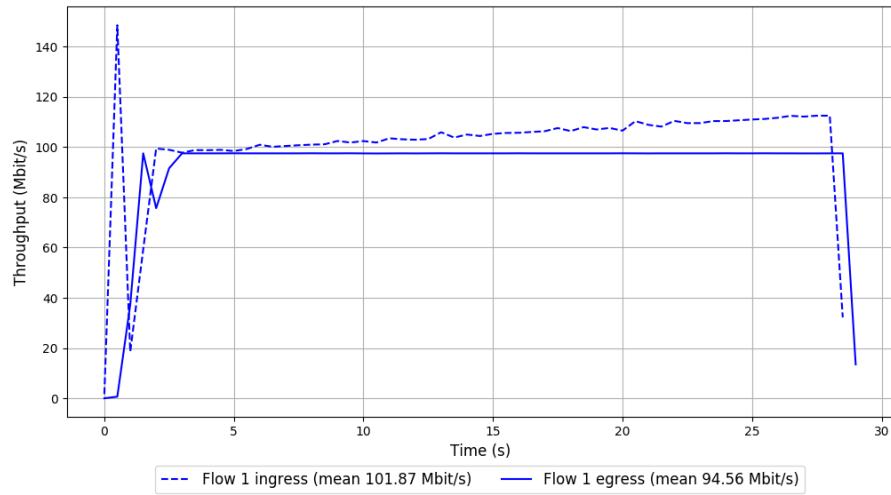


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-07-18 05:16:41
End at: 2019-07-18 05:17:11
Local clock offset: -6.119 ms
Remote clock offset: -8.325 ms

# Below is generated by plot.py at 2019-07-18 07:17:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.56 Mbit/s
95th percentile per-packet one-way delay: 128.537 ms
Loss rate: 7.74%
-- Flow 1:
Average throughput: 94.56 Mbit/s
95th percentile per-packet one-way delay: 128.537 ms
Loss rate: 7.74%
```

Run 2: Report of Indigo-MusesT — Data Link

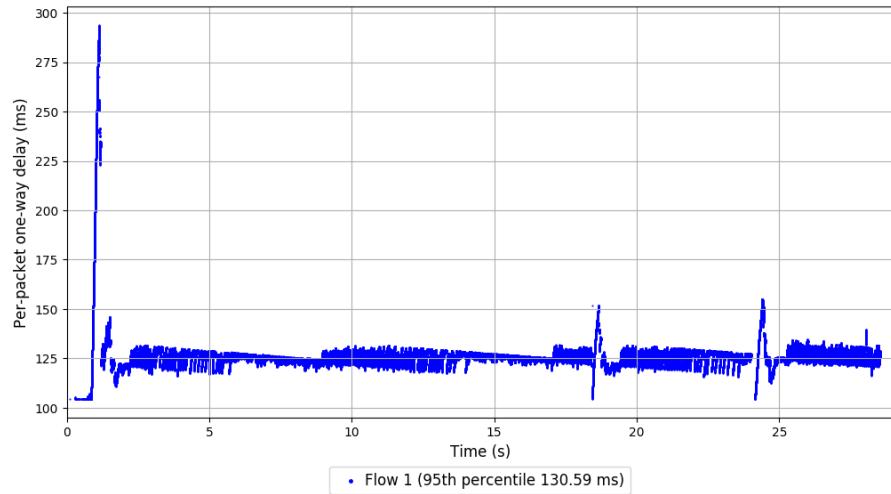
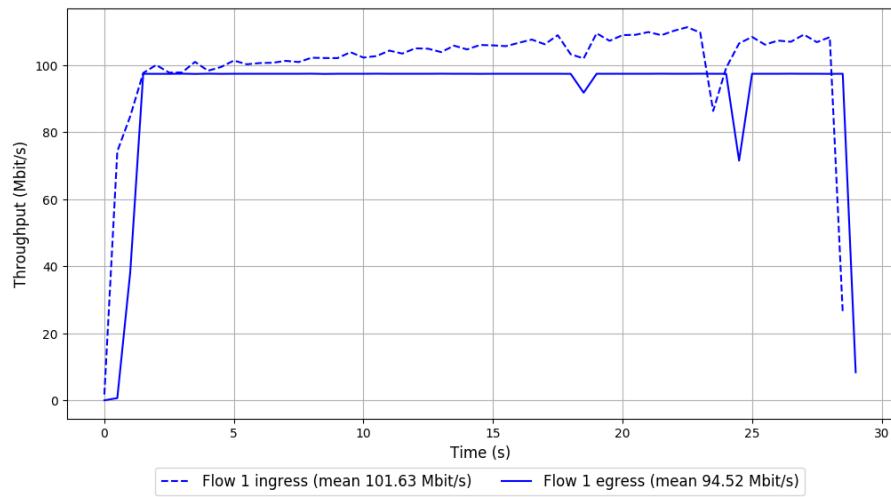


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-07-18 05:45:20
End at: 2019-07-18 05:45:50
Local clock offset: -6.569 ms
Remote clock offset: -13.453 ms

# Below is generated by plot.py at 2019-07-18 07:17:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.52 Mbit/s
95th percentile per-packet one-way delay: 130.593 ms
Loss rate: 7.56%
-- Flow 1:
Average throughput: 94.52 Mbit/s
95th percentile per-packet one-way delay: 130.593 ms
Loss rate: 7.56%
```

Run 3: Report of Indigo-MusesT — Data Link

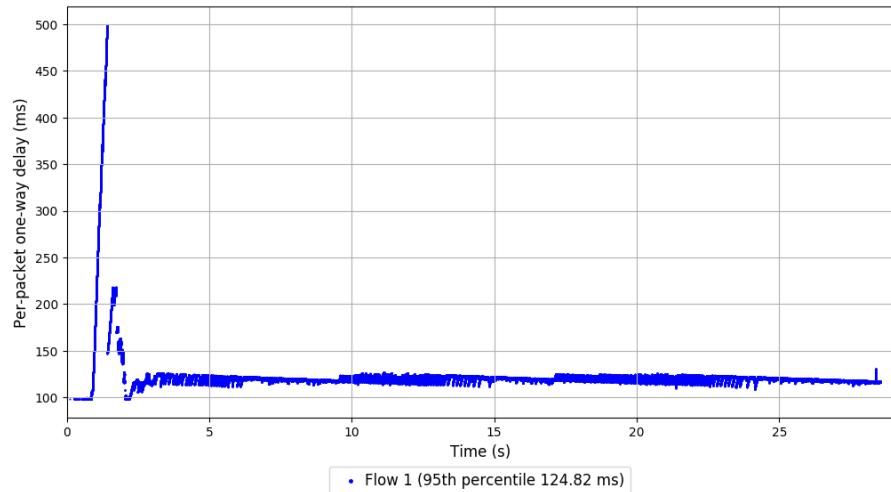
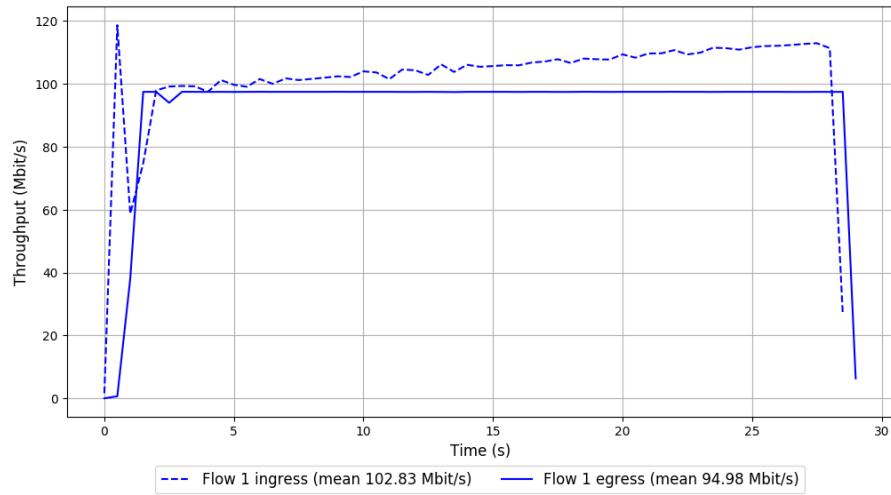


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-07-18 06:13:58
End at: 2019-07-18 06:14:28
Local clock offset: -7.864 ms
Remote clock offset: -7.837 ms

# Below is generated by plot.py at 2019-07-18 07:17:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.98 Mbit/s
95th percentile per-packet one-way delay: 124.821 ms
Loss rate: 8.19%
-- Flow 1:
Average throughput: 94.98 Mbit/s
95th percentile per-packet one-way delay: 124.821 ms
Loss rate: 8.19%
```

Run 4: Report of Indigo-MusesT — Data Link

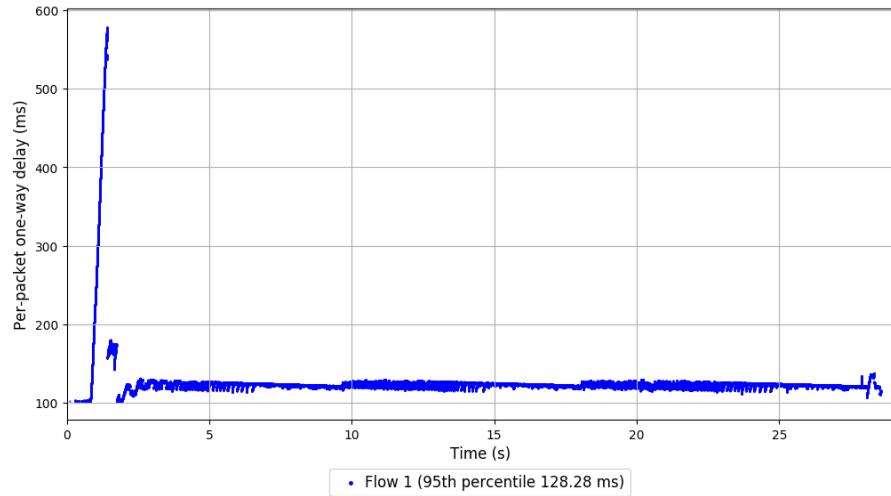
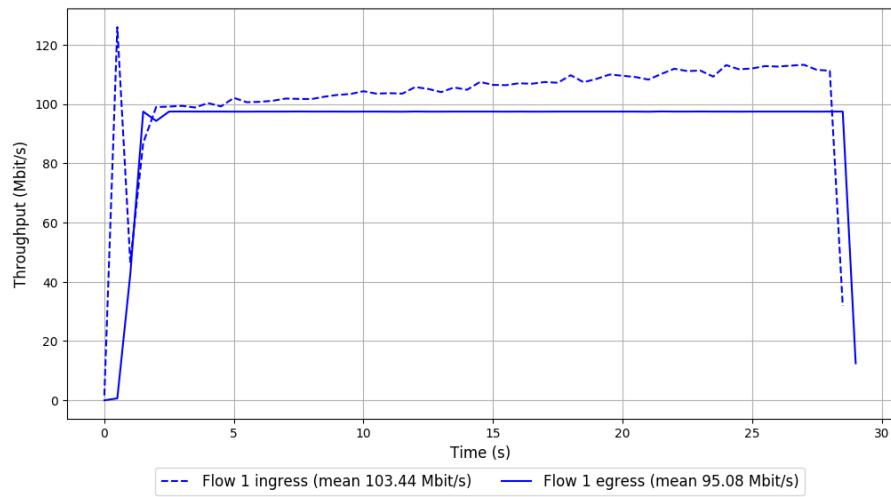


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-07-18 06:42:35
End at: 2019-07-18 06:43:05
Local clock offset: -5.949 ms
Remote clock offset: -8.611 ms

# Below is generated by plot.py at 2019-07-18 07:17:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 128.279 ms
Loss rate: 8.64%
-- Flow 1:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 128.279 ms
Loss rate: 8.64%
```

Run 5: Report of Indigo-MusesT — Data Link

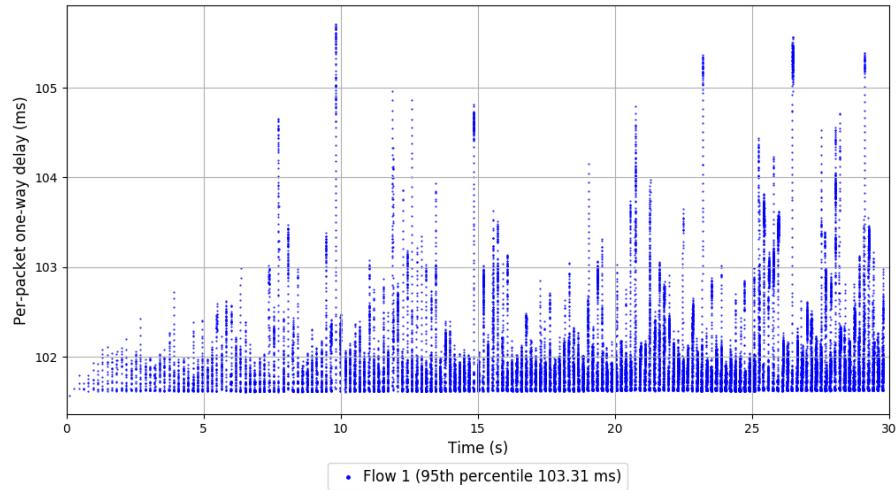
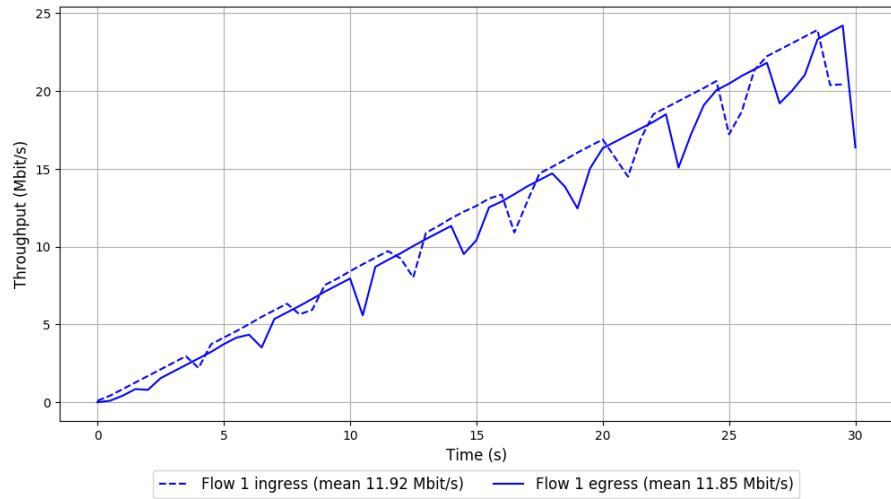


```
Run 1: Statistics of LEDBAT

Start at: 2019-07-18 05:11:55
End at: 2019-07-18 05:12:25
Local clock offset: -6.062 ms
Remote clock offset: -8.335 ms

# Below is generated by plot.py at 2019-07-18 07:17:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 103.314 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 103.314 ms
Loss rate: 1.16%
```

Run 1: Report of LEDBAT — Data Link

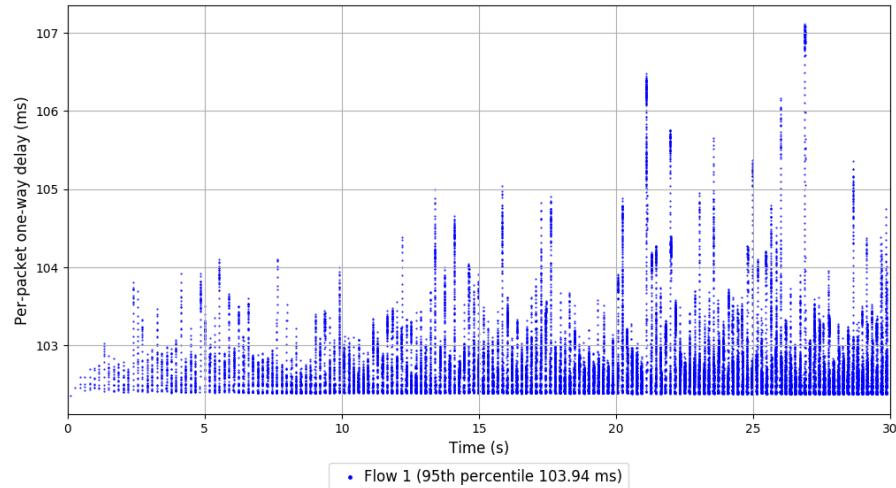
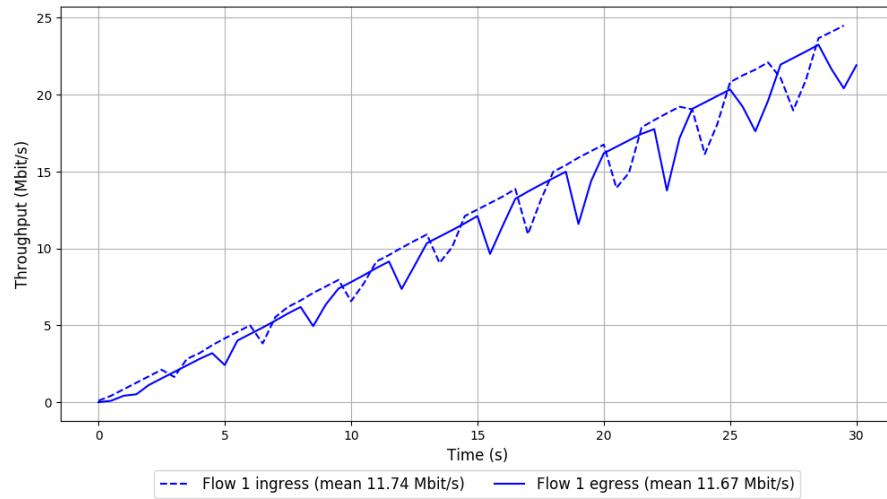


Run 2: Statistics of LEDBAT

```
Start at: 2019-07-18 05:40:36
End at: 2019-07-18 05:41:06
Local clock offset: -5.857 ms
Remote clock offset: -10.575 ms

# Below is generated by plot.py at 2019-07-18 07:17:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 103.936 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 103.936 ms
Loss rate: 1.17%
```

Run 2: Report of LEDBAT — Data Link

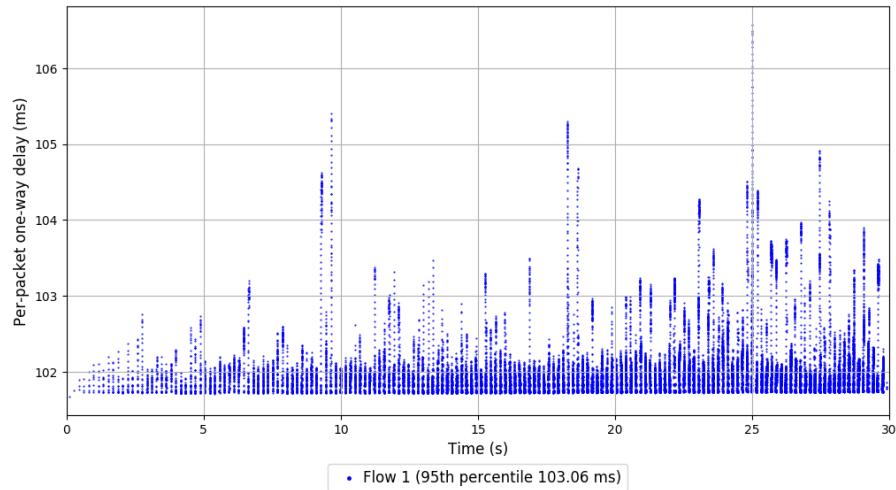
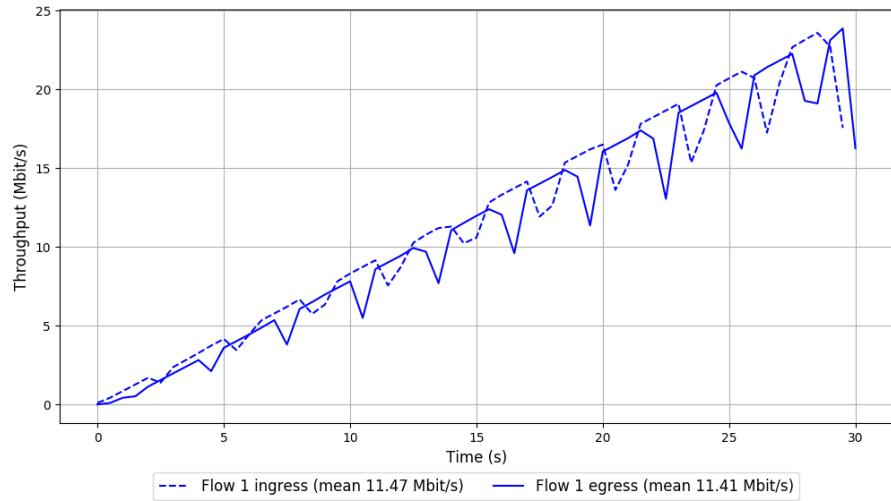


Run 3: Statistics of LEDBAT

```
Start at: 2019-07-18 06:09:13
End at: 2019-07-18 06:09:43
Local clock offset: -7.476 ms
Remote clock offset: -10.445 ms

# Below is generated by plot.py at 2019-07-18 07:17:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 103.060 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 103.060 ms
Loss rate: 1.17%
```

Run 3: Report of LEDBAT — Data Link

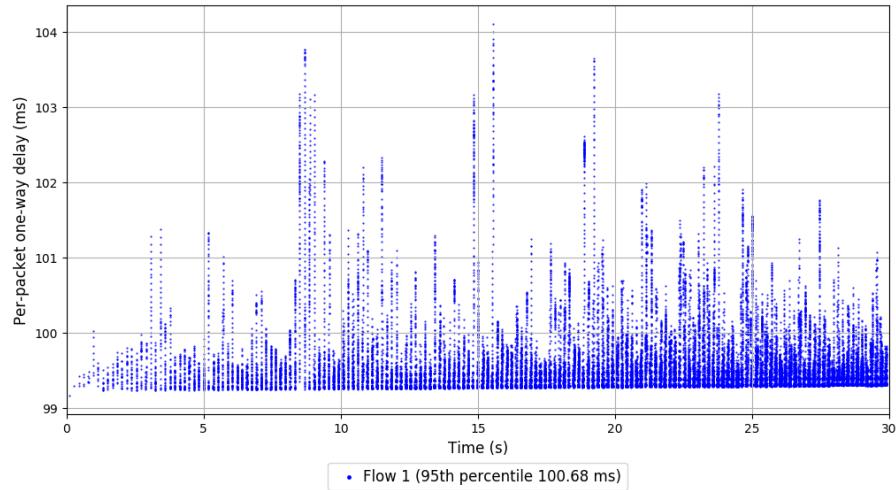
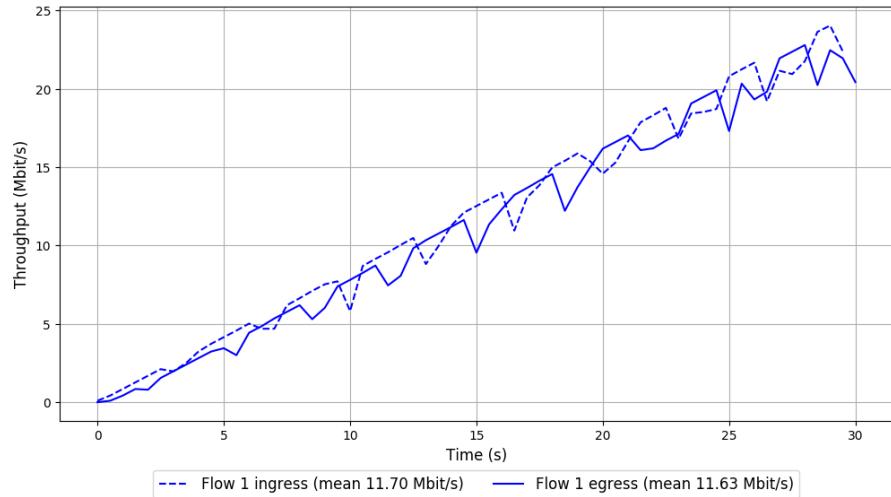


Run 4: Statistics of LEDBAT

```
Start at: 2019-07-18 06:37:49
End at: 2019-07-18 06:38:19
Local clock offset: -6.864 ms
Remote clock offset: -6.171 ms

# Below is generated by plot.py at 2019-07-18 07:17:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 100.681 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 100.681 ms
Loss rate: 1.17%
```

Run 4: Report of LEDBAT — Data Link

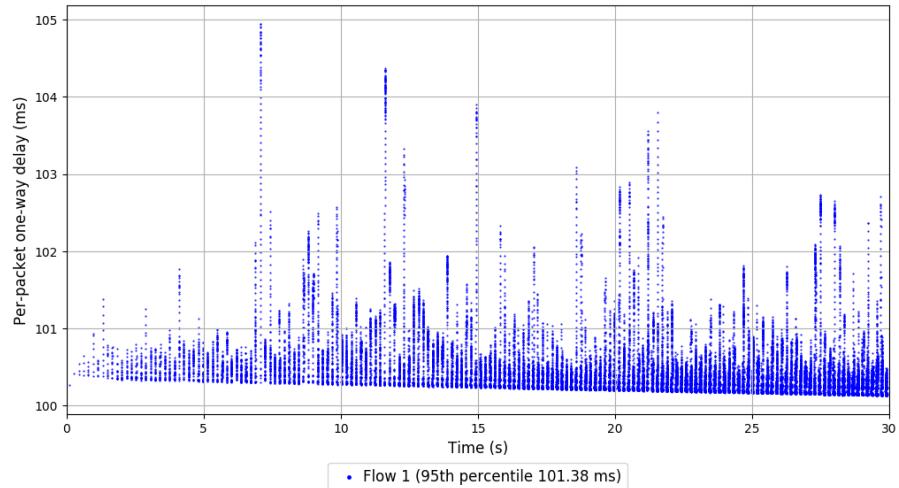
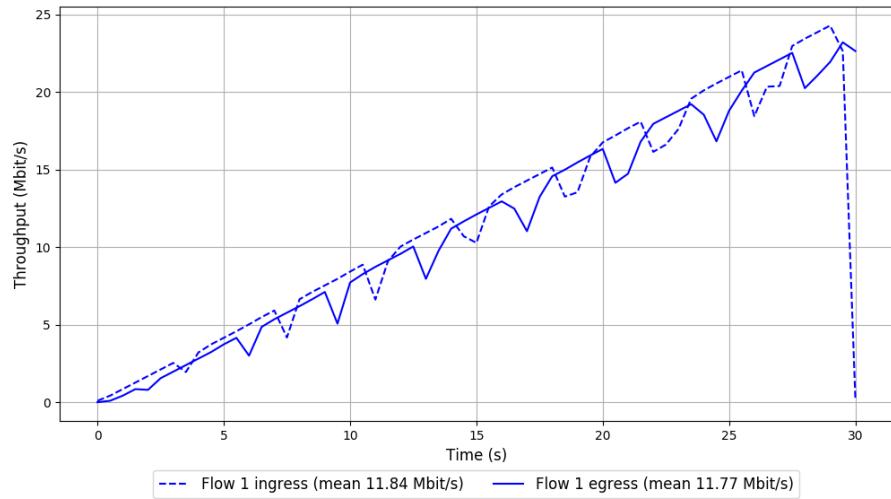


Run 5: Statistics of LEDBAT

```
Start at: 2019-07-18 07:06:26
End at: 2019-07-18 07:06:56
Local clock offset: -4.488 ms
Remote clock offset: -6.107 ms

# Below is generated by plot.py at 2019-07-18 07:17:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 101.375 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 101.375 ms
Loss rate: 1.16%
```

Run 5: Report of LEDBAT — Data Link

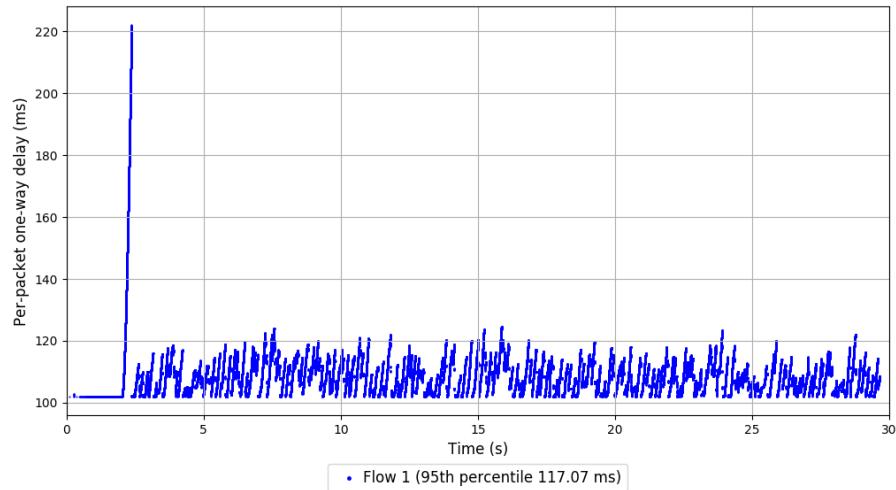
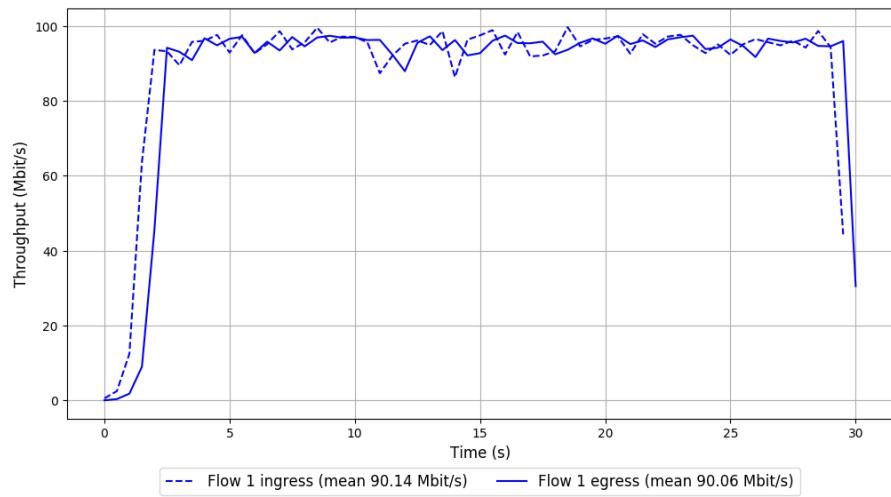


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-07-18 04:45:38
End at: 2019-07-18 04:46:08
Local clock offset: -6.595 ms
Remote clock offset: -9.531 ms

# Below is generated by plot.py at 2019-07-18 07:18:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.06 Mbit/s
95th percentile per-packet one-way delay: 117.072 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 90.06 Mbit/s
95th percentile per-packet one-way delay: 117.072 ms
Loss rate: 0.68%
```

Run 1: Report of Muses_DecisionTree — Data Link

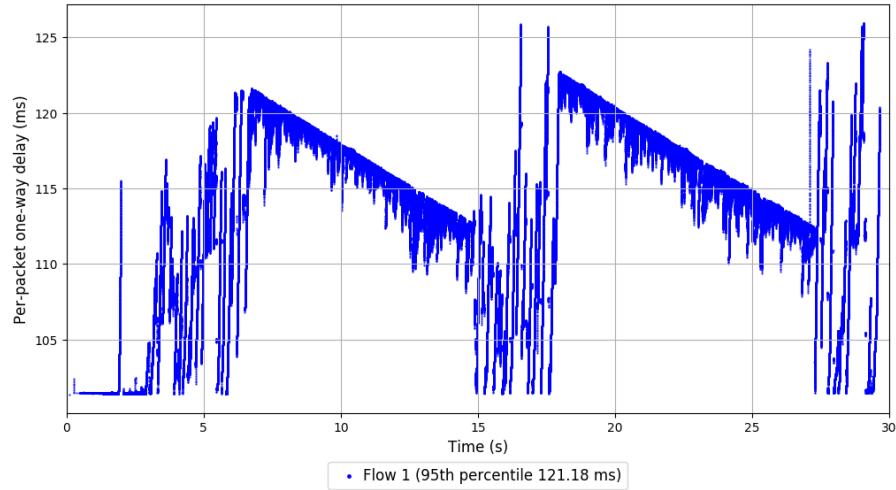
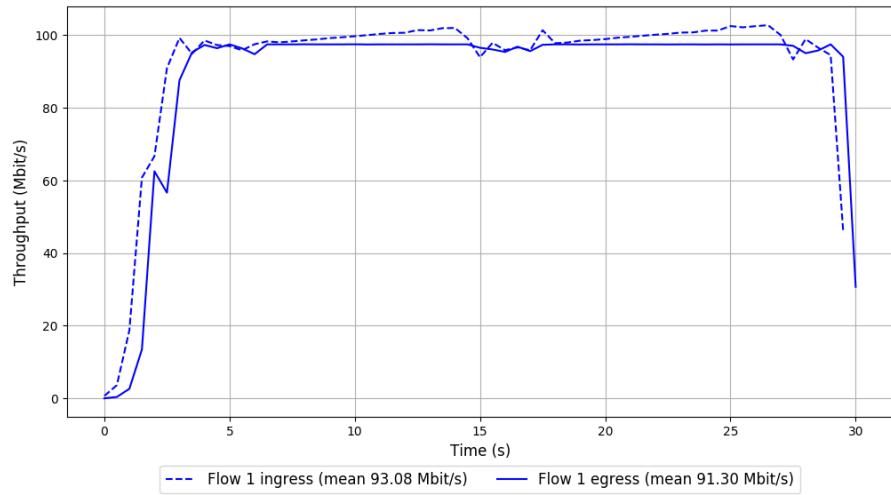


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-07-18 05:14:16
End at: 2019-07-18 05:14:46
Local clock offset: -6.898 ms
Remote clock offset: -8.624 ms

# Below is generated by plot.py at 2019-07-18 07:18:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: 121.180 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: 121.180 ms
Loss rate: 2.49%
```

Run 2: Report of Muses_DecisionTree — Data Link

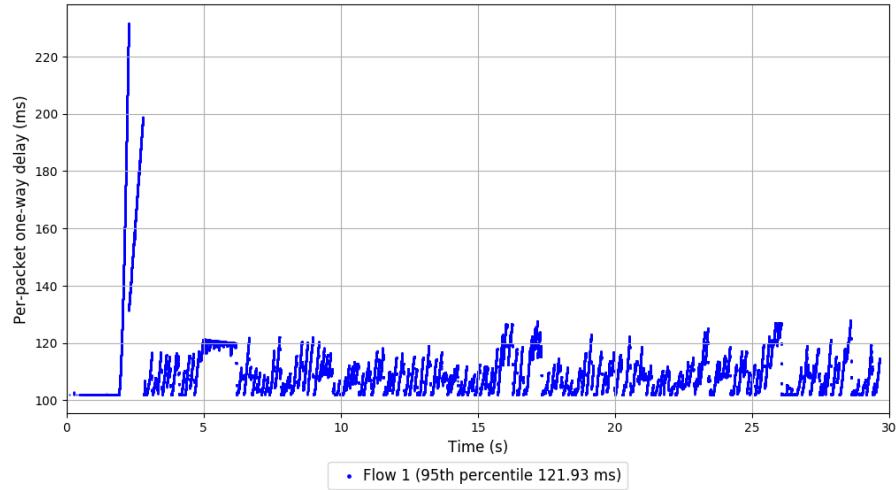
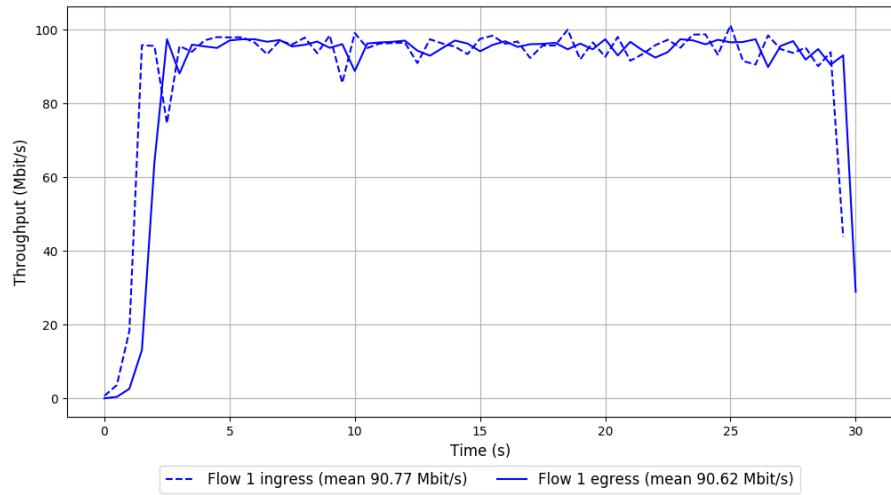


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-07-18 05:42:56
End at: 2019-07-18 05:43:26
Local clock offset: -5.779 ms
Remote clock offset: -10.807 ms

# Below is generated by plot.py at 2019-07-18 07:18:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 121.934 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 121.934 ms
Loss rate: 0.75%
```

Run 3: Report of Muses_DecisionTree — Data Link

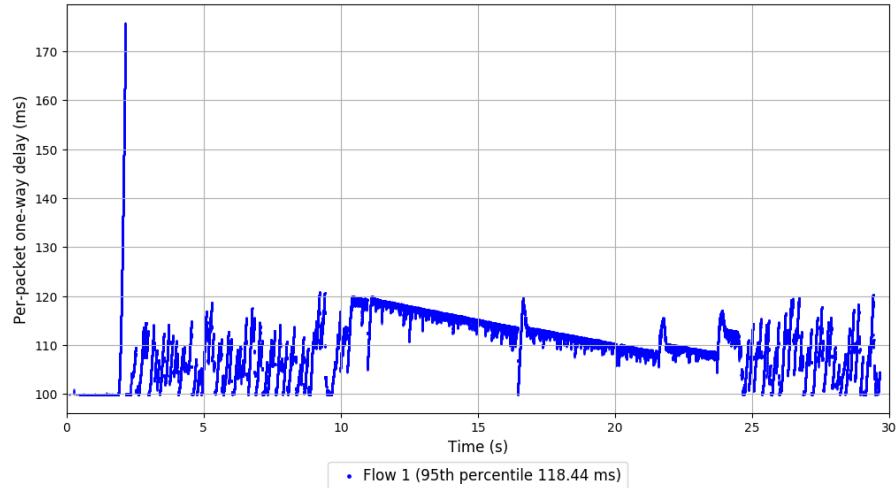
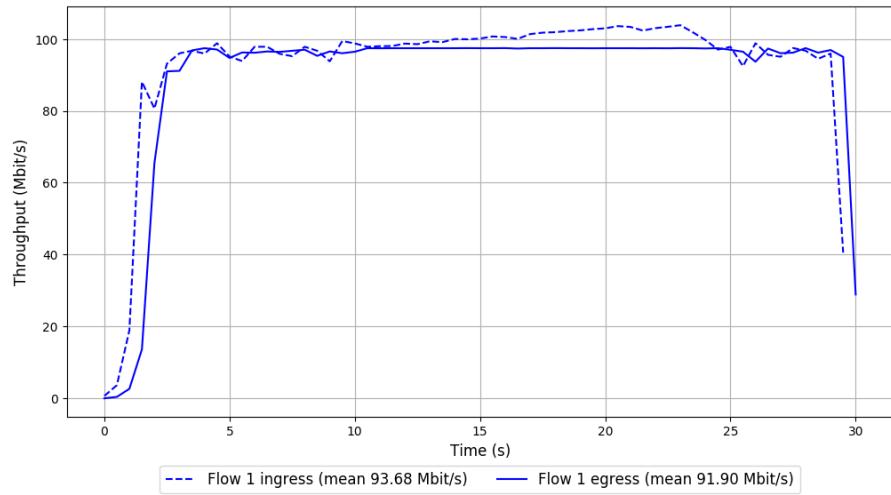


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-07-18 06:11:34
End at: 2019-07-18 06:12:04
Local clock offset: -6.764 ms
Remote clock offset: -7.799 ms

# Below is generated by plot.py at 2019-07-18 07:18:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.90 Mbit/s
95th percentile per-packet one-way delay: 118.435 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 91.90 Mbit/s
95th percentile per-packet one-way delay: 118.435 ms
Loss rate: 2.40%
```

Run 4: Report of Muses_DecisionTree — Data Link

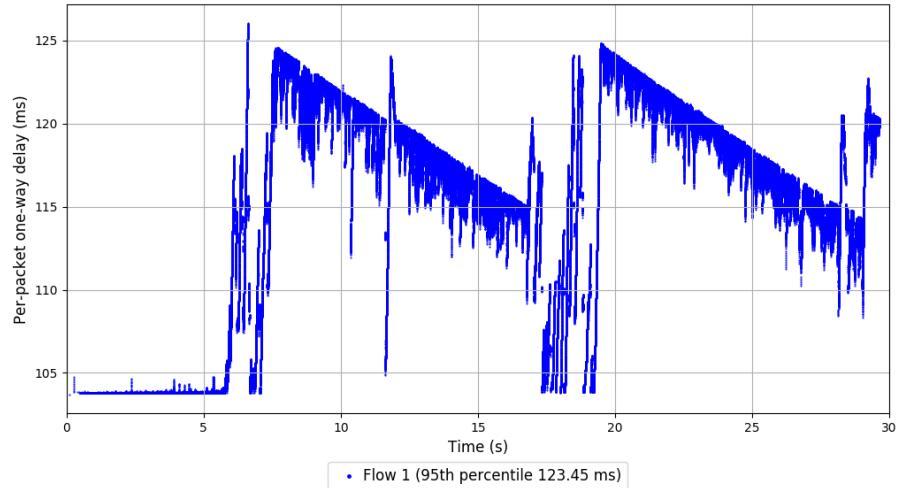
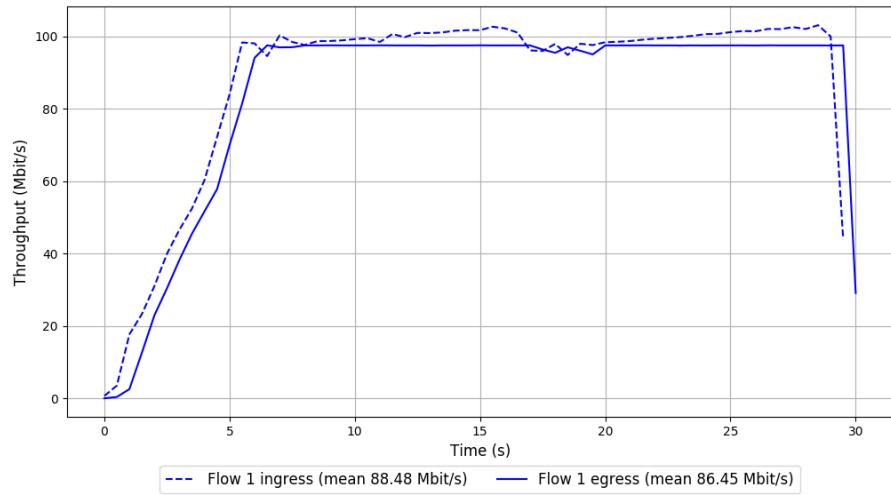


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-07-18 06:40:11
End at: 2019-07-18 06:40:41
Local clock offset: -6.81 ms
Remote clock offset: -11.03 ms

# Below is generated by plot.py at 2019-07-18 07:18:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.45 Mbit/s
95th percentile per-packet one-way delay: 123.455 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 86.45 Mbit/s
95th percentile per-packet one-way delay: 123.455 ms
Loss rate: 2.87%
```

Run 5: Report of Muses_DecisionTree — Data Link

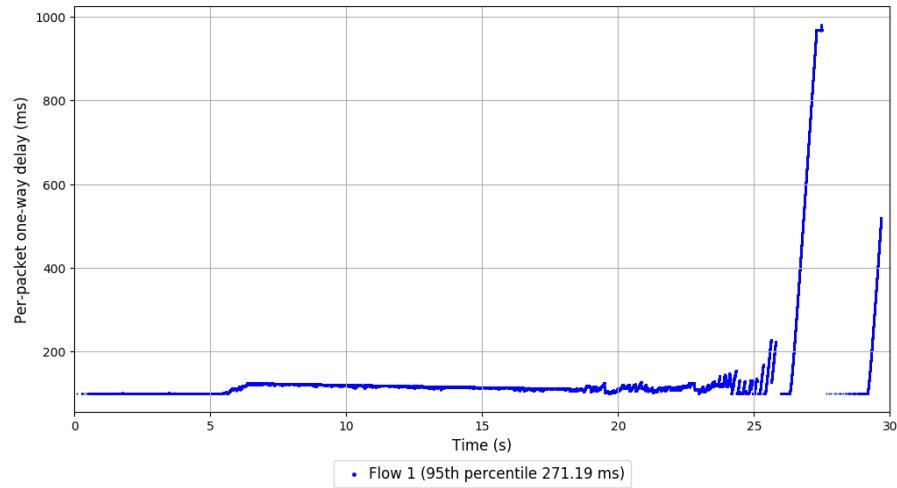
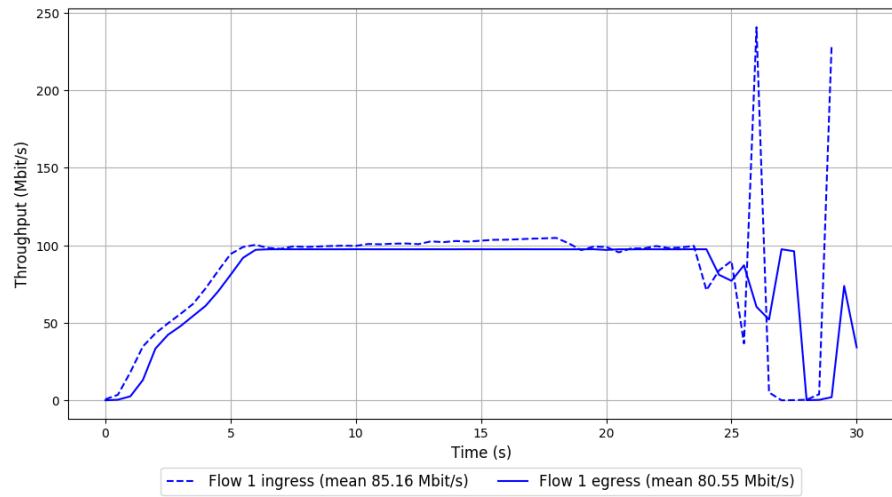


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-18 04:52:53
End at: 2019-07-18 04:53:23
Local clock offset: -6.44 ms
Remote clock offset: -7.396 ms

# Below is generated by plot.py at 2019-07-18 07:18:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.55 Mbit/s
95th percentile per-packet one-way delay: 271.190 ms
Loss rate: 4.64%
-- Flow 1:
Average throughput: 80.55 Mbit/s
95th percentile per-packet one-way delay: 271.190 ms
Loss rate: 4.64%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

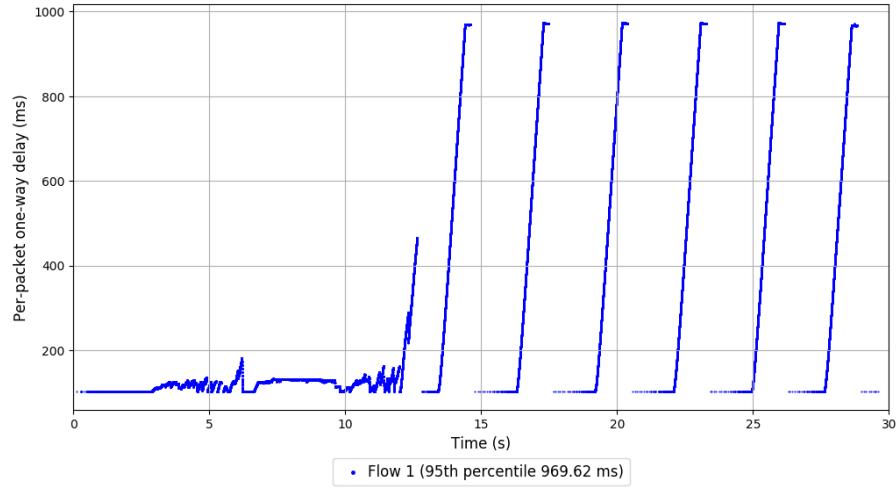
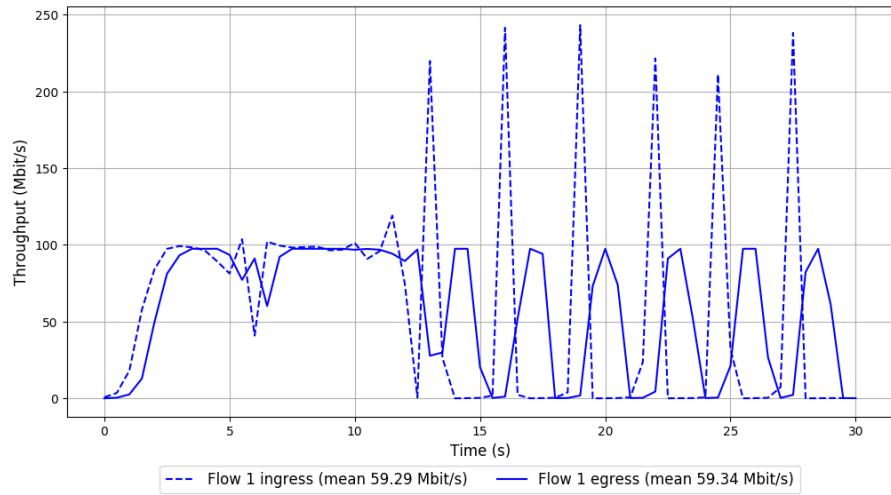


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-18 05:21:30
End at: 2019-07-18 05:22:00
Local clock offset: -6.982 ms
Remote clock offset: -9.866 ms

# Below is generated by plot.py at 2019-07-18 07:18:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.34 Mbit/s
95th percentile per-packet one-way delay: 969.625 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 59.34 Mbit/s
95th percentile per-packet one-way delay: 969.625 ms
Loss rate: 0.51%
```

Run 2: Report of Muses_DecisionTreeH0 — Data Link

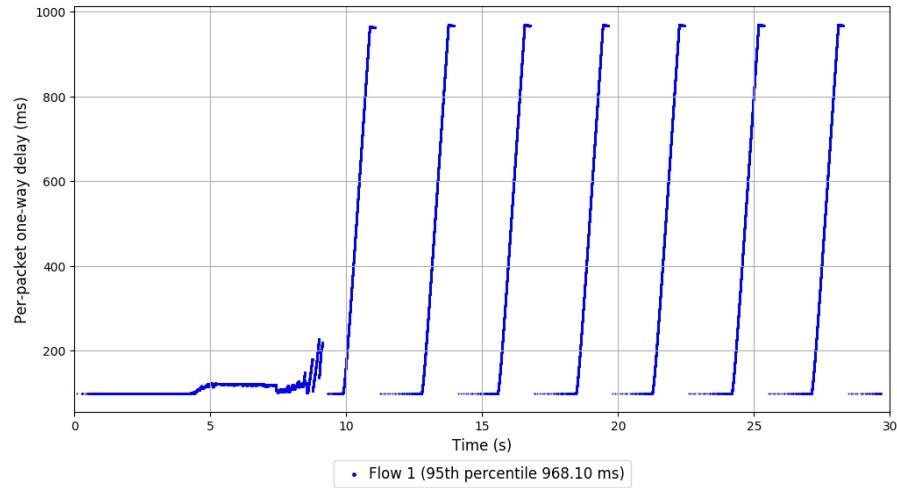
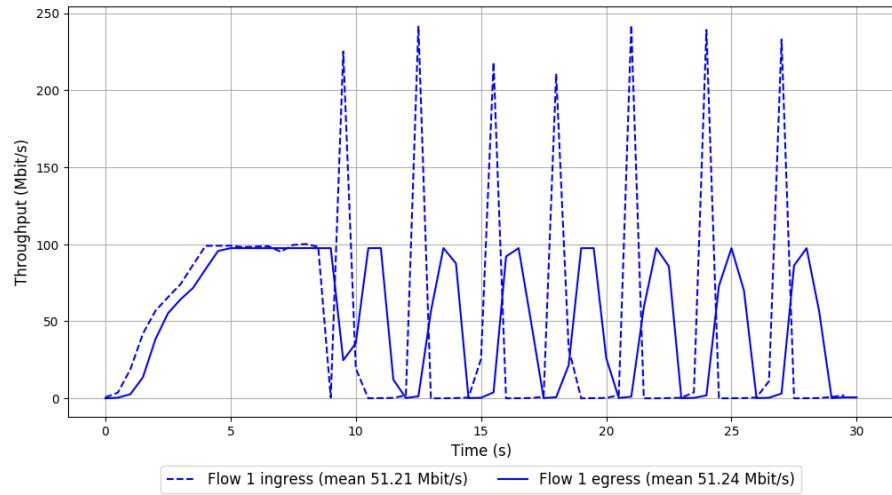


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-18 05:50:10
End at: 2019-07-18 05:50:40
Local clock offset: -6.582 ms
Remote clock offset: -8.535 ms

# Below is generated by plot.py at 2019-07-18 07:18:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.24 Mbit/s
95th percentile per-packet one-way delay: 968.099 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 51.24 Mbit/s
95th percentile per-packet one-way delay: 968.099 ms
Loss rate: 0.52%
```

Run 3: Report of Muses_DecisionTreeH0 — Data Link

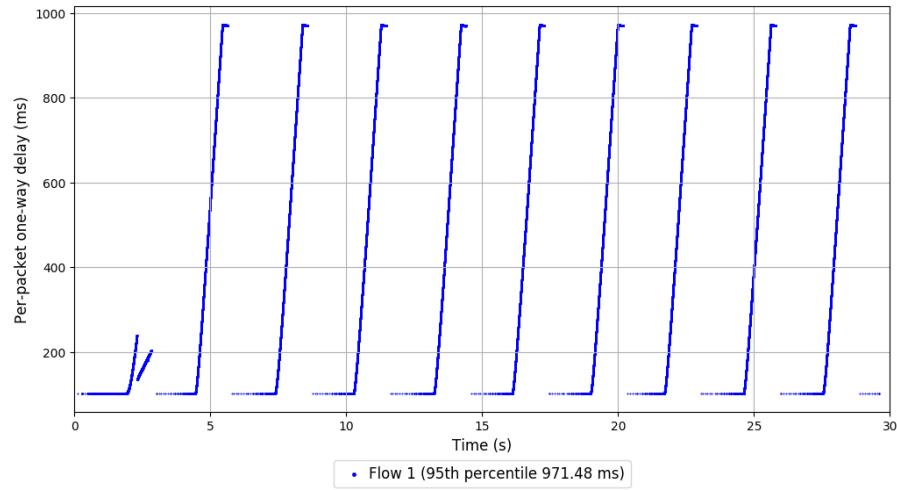
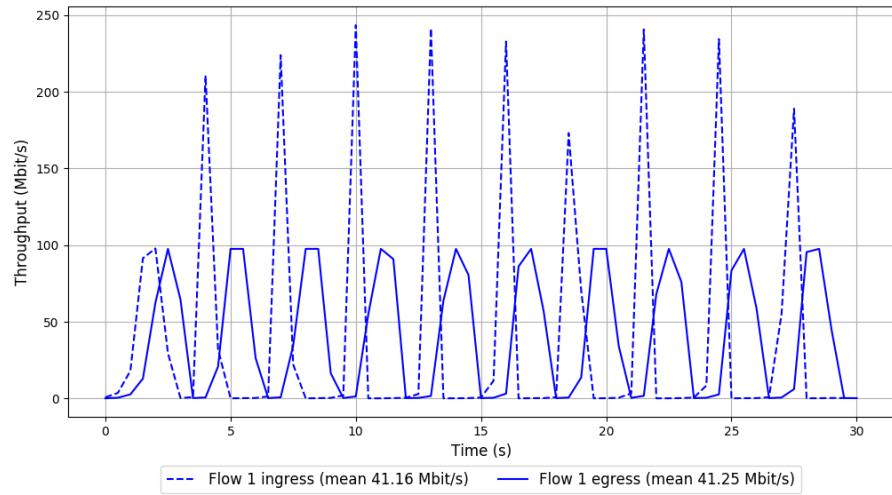


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-18 06:18:47
End at: 2019-07-18 06:19:17
Local clock offset: -6.977 ms
Remote clock offset: -9.66 ms

# Below is generated by plot.py at 2019-07-18 07:18:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.25 Mbit/s
95th percentile per-packet one-way delay: 971.482 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 41.25 Mbit/s
95th percentile per-packet one-way delay: 971.482 ms
Loss rate: 0.36%
```

Run 4: Report of Muses_DecisionTreeH0 — Data Link

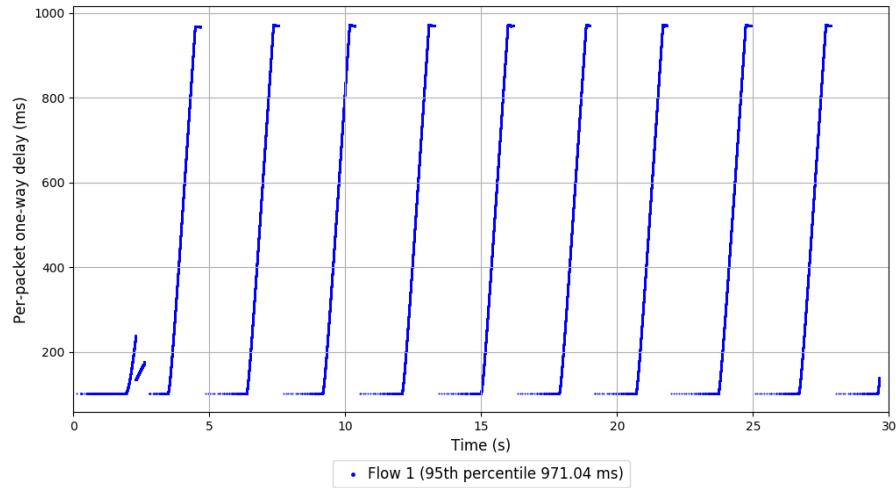
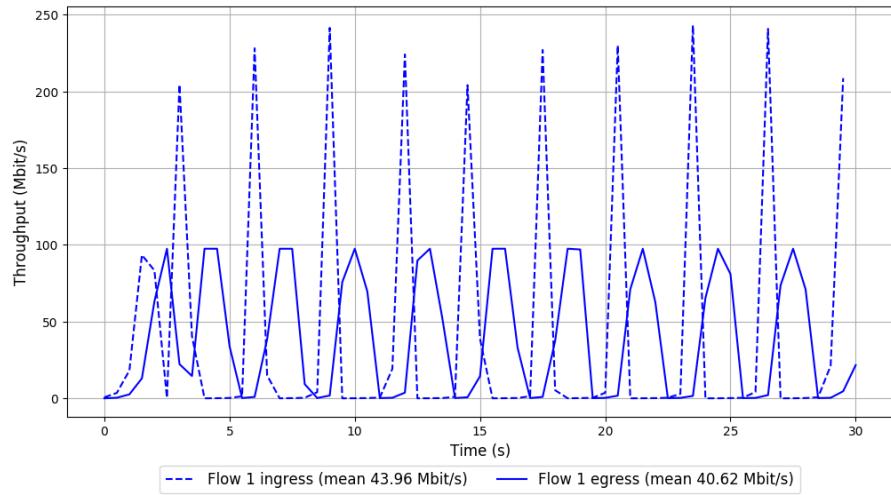


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-18 06:47:23
End at: 2019-07-18 06:47:53
Local clock offset: -6.683 ms
Remote clock offset: -7.592 ms

# Below is generated by plot.py at 2019-07-18 07:18:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.62 Mbit/s
95th percentile per-packet one-way delay: 971.041 ms
Loss rate: 8.15%
-- Flow 1:
Average throughput: 40.62 Mbit/s
95th percentile per-packet one-way delay: 971.041 ms
Loss rate: 8.15%
```

Run 5: Report of Muses_DecisionTreeH0 — Data Link

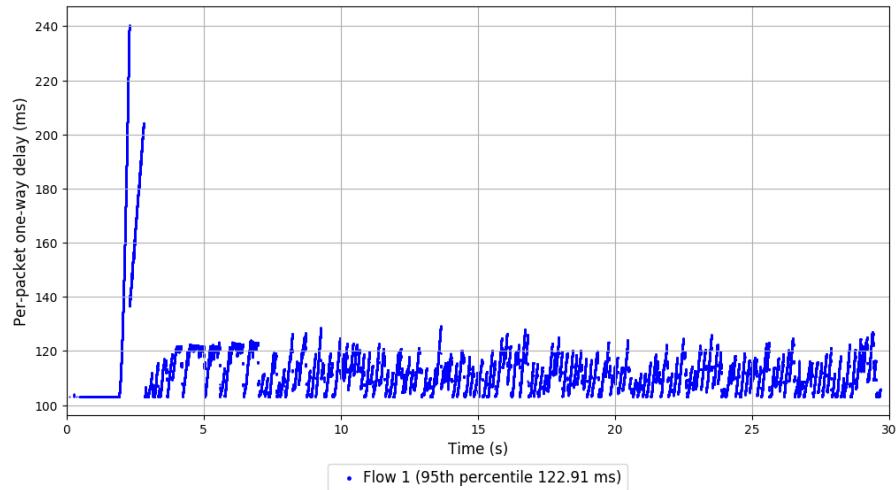
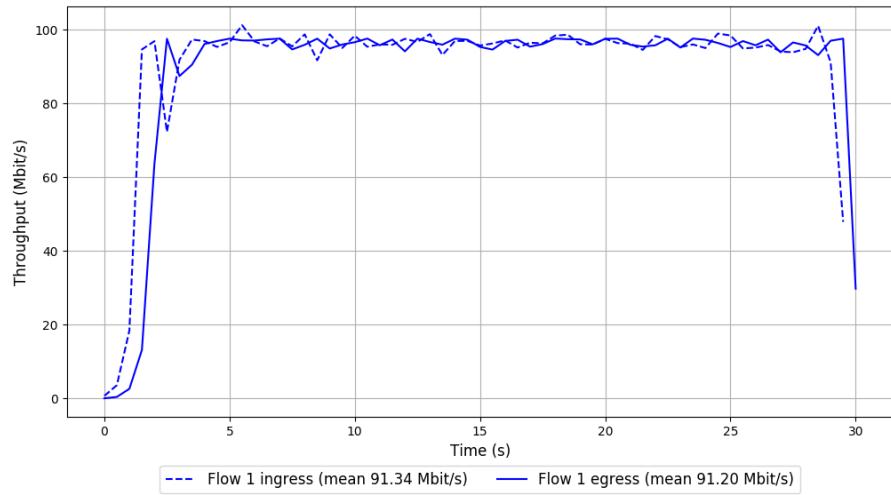


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-18 04:46:50
End at: 2019-07-18 04:47:20
Local clock offset: -6.293 ms
Remote clock offset: -11.19 ms

# Below is generated by plot.py at 2019-07-18 07:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 122.914 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 122.914 ms
Loss rate: 0.74%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

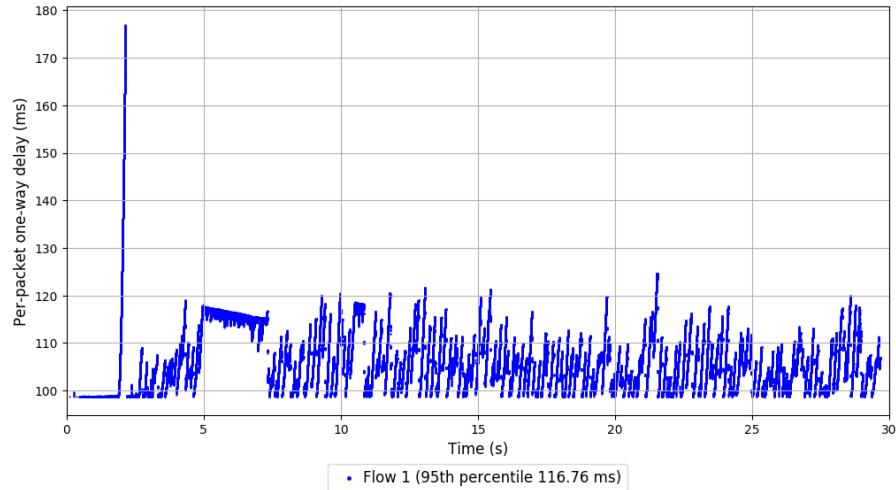
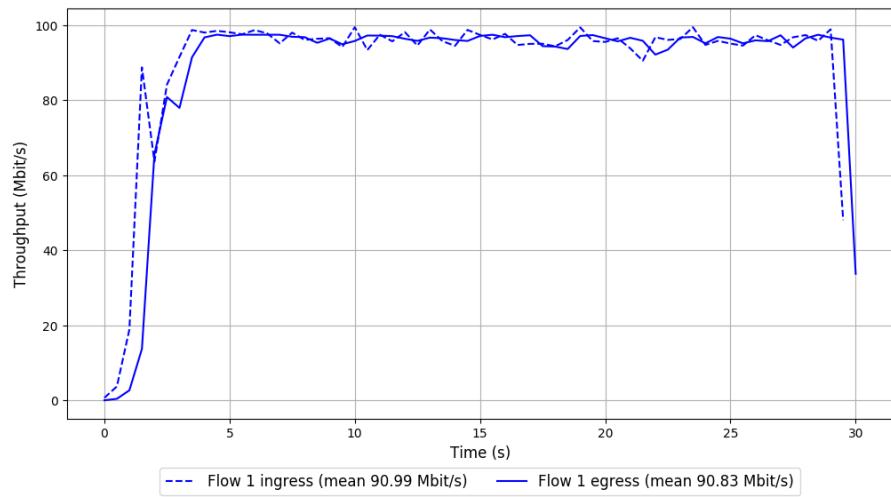


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-18 05:15:29
End at: 2019-07-18 05:15:59
Local clock offset: -6.903 ms
Remote clock offset: -6.594 ms

# Below is generated by plot.py at 2019-07-18 07:19:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.83 Mbit/s
95th percentile per-packet one-way delay: 116.762 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 90.83 Mbit/s
95th percentile per-packet one-way delay: 116.762 ms
Loss rate: 0.76%
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link

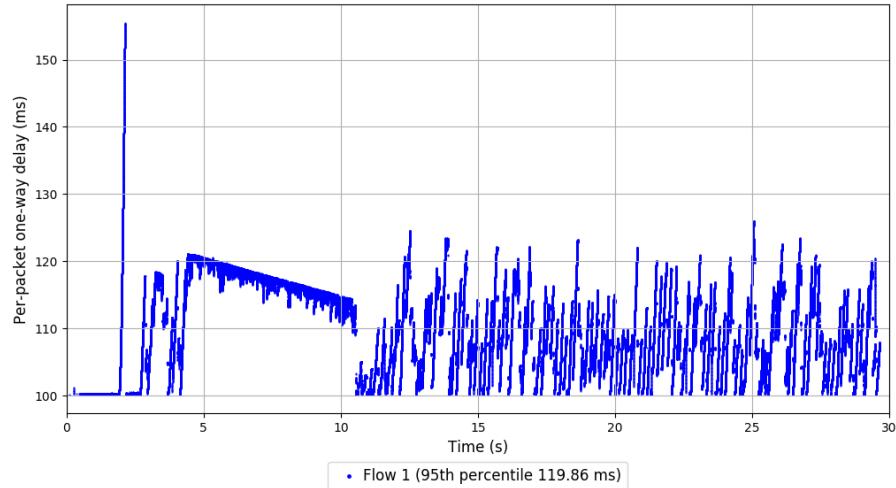
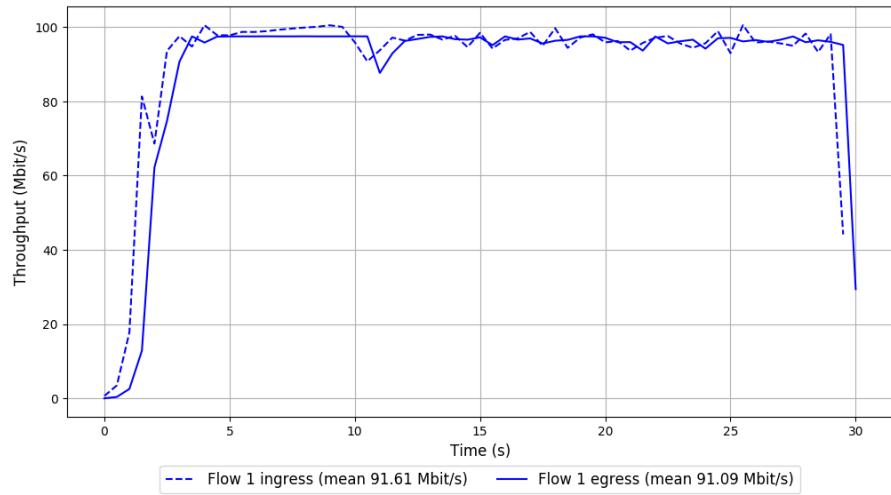


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-18 05:44:08
End at: 2019-07-18 05:44:38
Local clock offset: -6.015 ms
Remote clock offset: -9.011 ms

# Below is generated by plot.py at 2019-07-18 07:19:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.09 Mbit/s
95th percentile per-packet one-way delay: 119.865 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 91.09 Mbit/s
95th percentile per-packet one-way delay: 119.865 ms
Loss rate: 1.15%
```

Run 3: Report of Muses_DecisionTreeR0 — Data Link

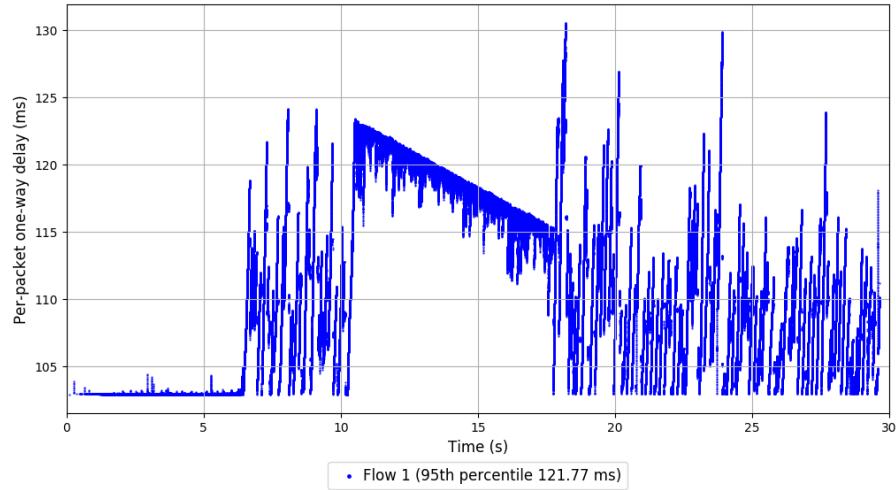
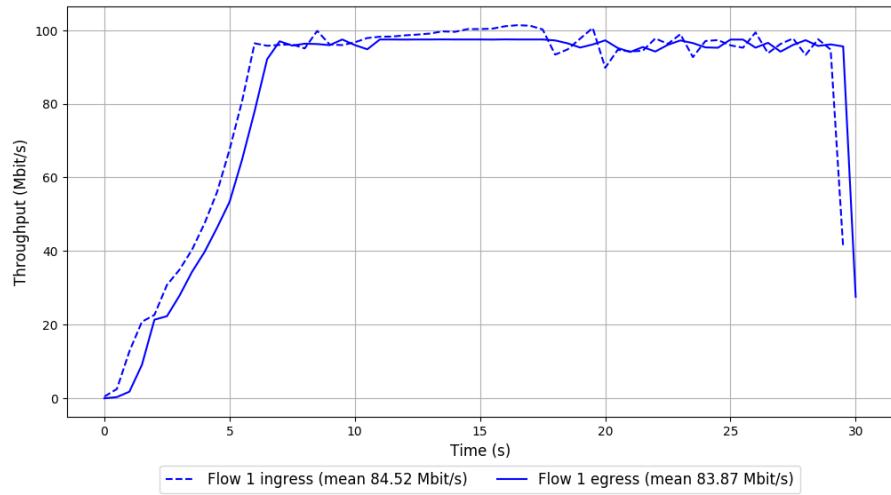


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-18 06:12:46
End at: 2019-07-18 06:13:16
Local clock offset: -6.822 ms
Remote clock offset: -10.785 ms

# Below is generated by plot.py at 2019-07-18 07:19:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.87 Mbit/s
95th percentile per-packet one-way delay: 121.767 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 83.87 Mbit/s
95th percentile per-packet one-way delay: 121.767 ms
Loss rate: 1.35%
```

Run 4: Report of Muses_DecisionTreeR0 — Data Link

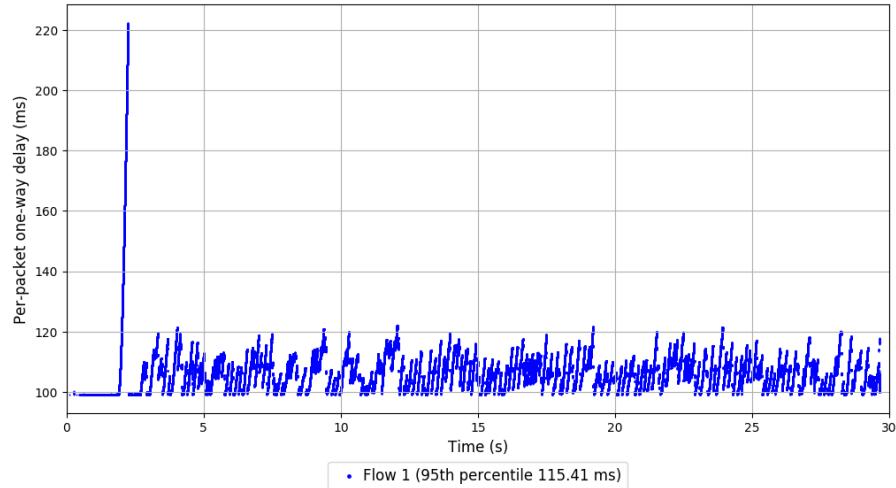
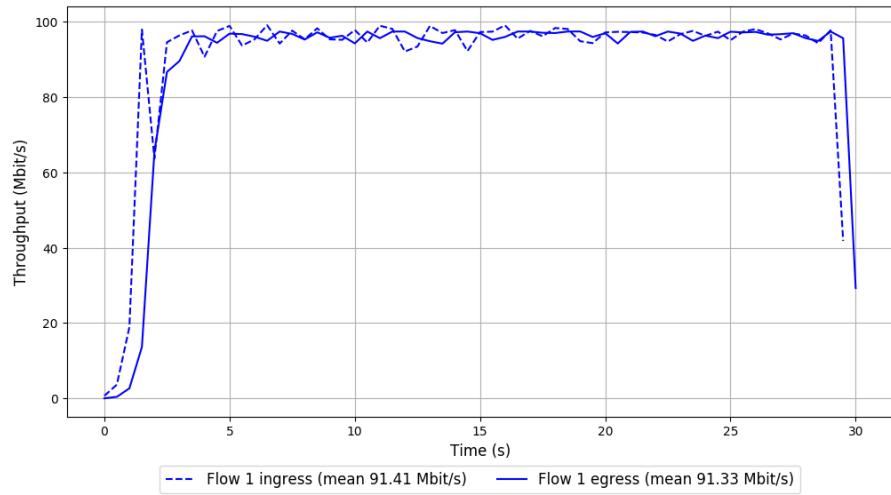


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-18 06:41:23
End at: 2019-07-18 06:41:53
Local clock offset: -6.762 ms
Remote clock offset: -5.584 ms

# Below is generated by plot.py at 2019-07-18 07:19:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 115.413 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 115.413 ms
Loss rate: 0.66%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link

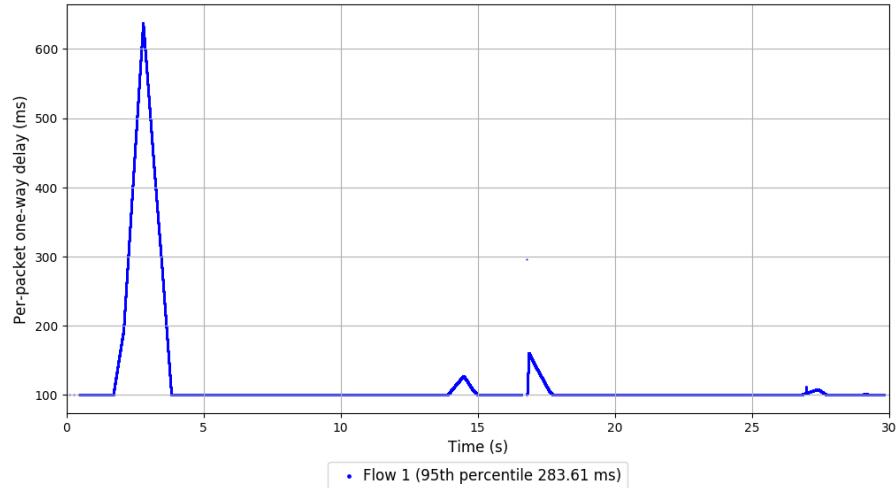
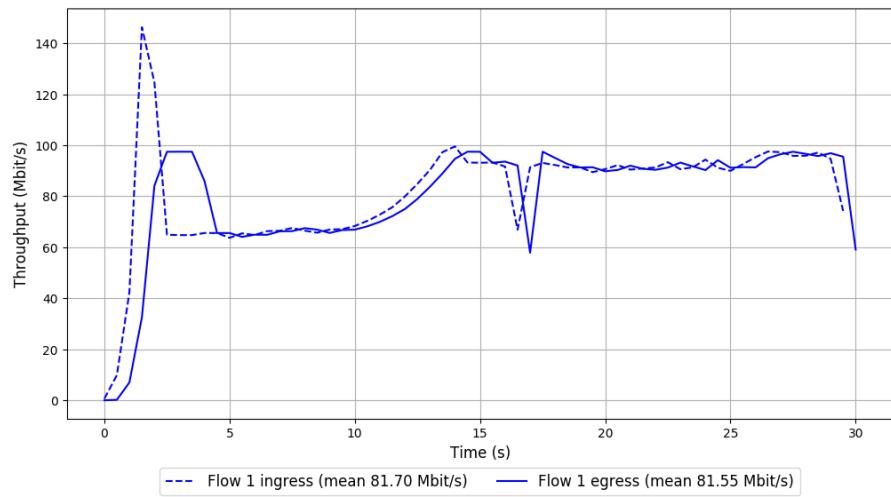


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-07-18 04:51:42
End at: 2019-07-18 04:52:12
Local clock offset: -7.417 ms
Remote clock offset: -9.242 ms

# Below is generated by plot.py at 2019-07-18 07:19:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.55 Mbit/s
95th percentile per-packet one-way delay: 283.605 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 81.55 Mbit/s
95th percentile per-packet one-way delay: 283.605 ms
Loss rate: 0.77%
```

Run 1: Report of PCC-Allegro — Data Link

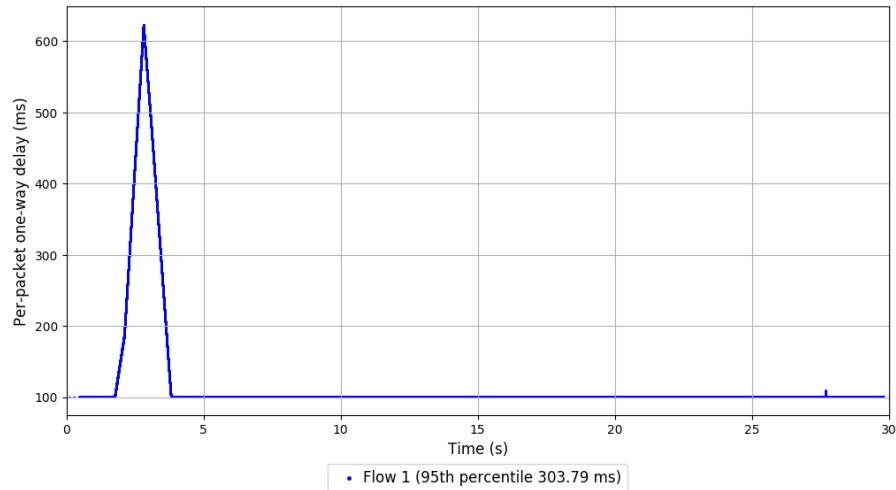
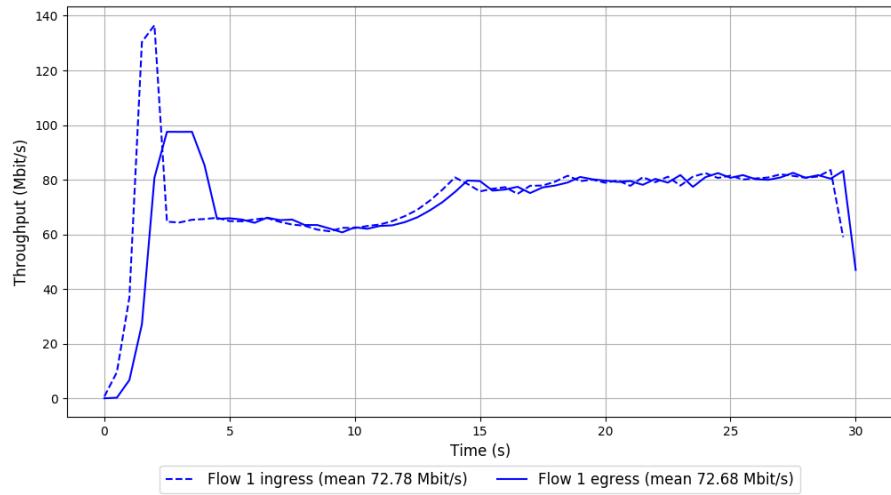


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-07-18 05:20:19
End at: 2019-07-18 05:20:49
Local clock offset: -6.996 ms
Remote clock offset: -8.116 ms

# Below is generated by plot.py at 2019-07-18 07:19:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.68 Mbit/s
95th percentile per-packet one-way delay: 303.793 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 72.68 Mbit/s
95th percentile per-packet one-way delay: 303.793 ms
Loss rate: 0.73%
```

Run 2: Report of PCC-Allegro — Data Link

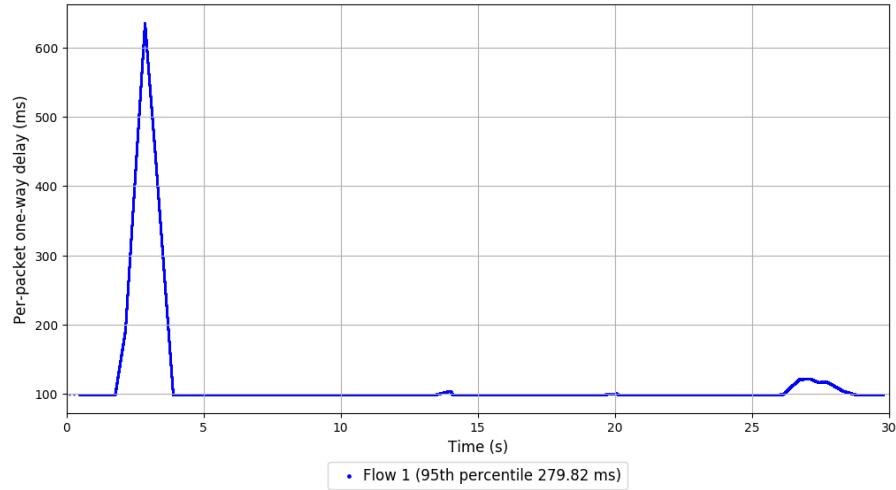
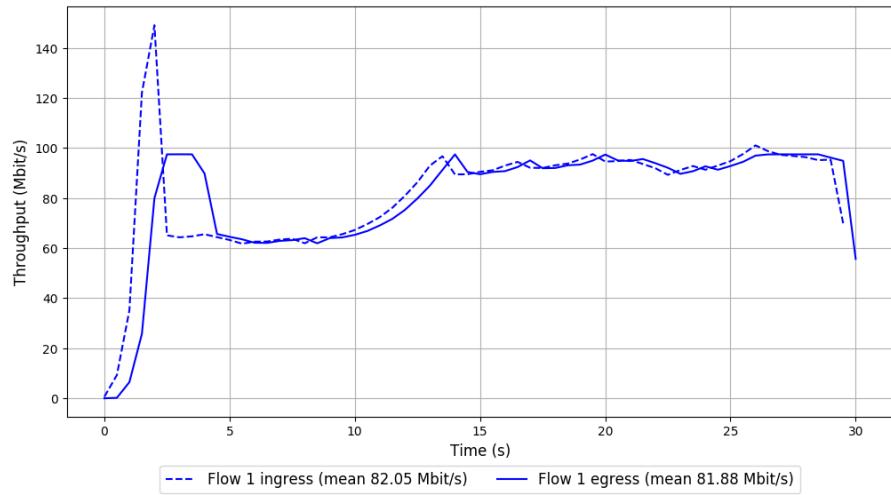


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-07-18 05:48:59
End at: 2019-07-18 05:49:29
Local clock offset: -6.782 ms
Remote clock offset: -8.453 ms

# Below is generated by plot.py at 2019-07-18 07:19:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.88 Mbit/s
95th percentile per-packet one-way delay: 279.822 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 81.88 Mbit/s
95th percentile per-packet one-way delay: 279.822 ms
Loss rate: 0.79%
```

Run 3: Report of PCC-Allegro — Data Link

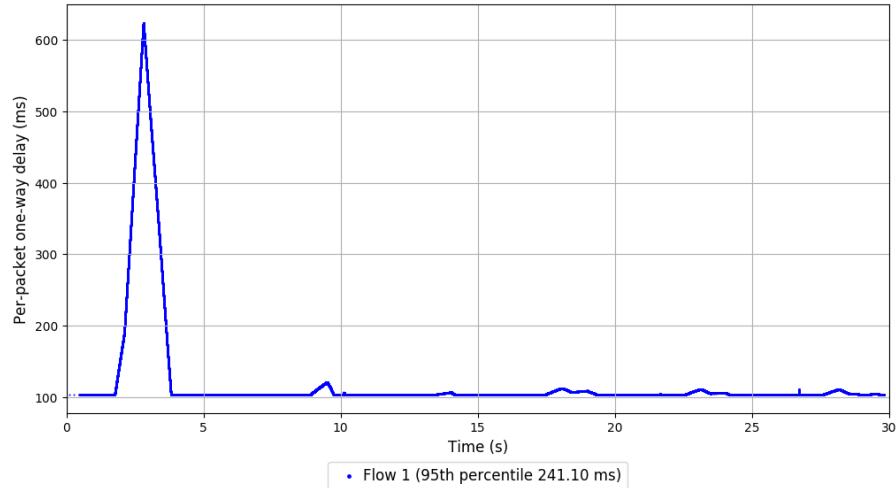
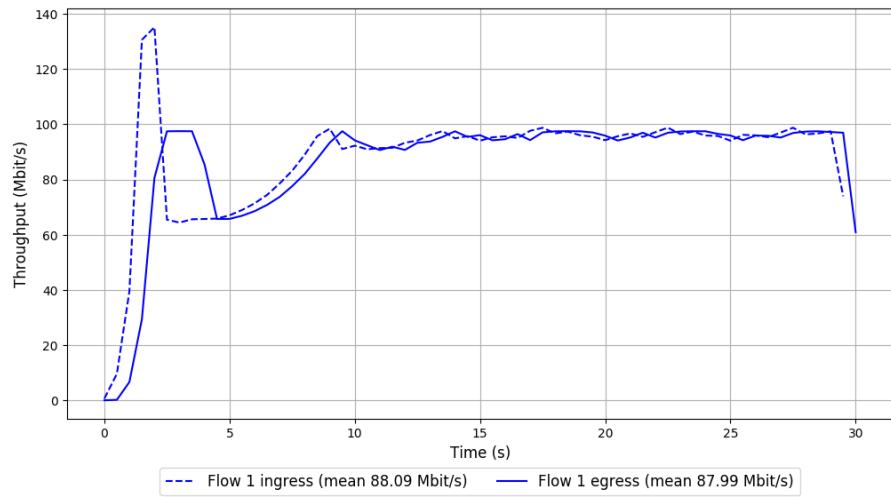


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-07-18 06:17:36
End at: 2019-07-18 06:18:06
Local clock offset: -7.968 ms
Remote clock offset: -12.954 ms

# Below is generated by plot.py at 2019-07-18 07:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.99 Mbit/s
95th percentile per-packet one-way delay: 241.103 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 87.99 Mbit/s
95th percentile per-packet one-way delay: 241.103 ms
Loss rate: 0.69%
```

Run 4: Report of PCC-Allegro — Data Link

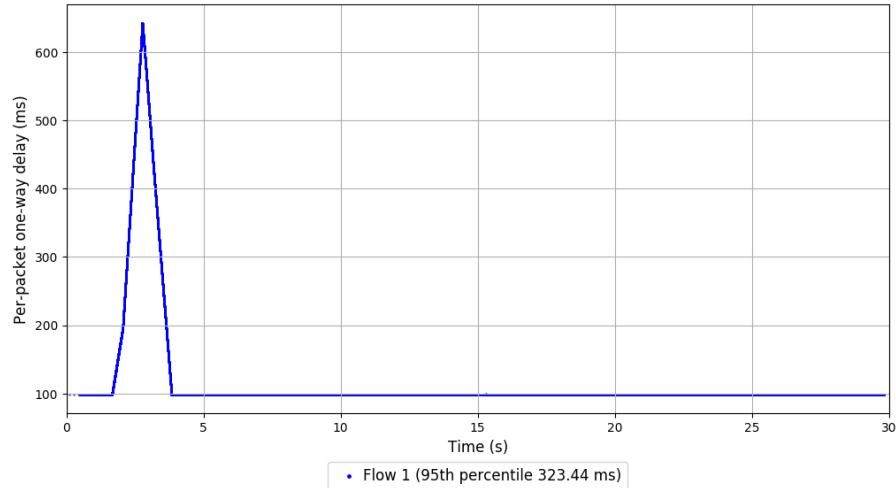
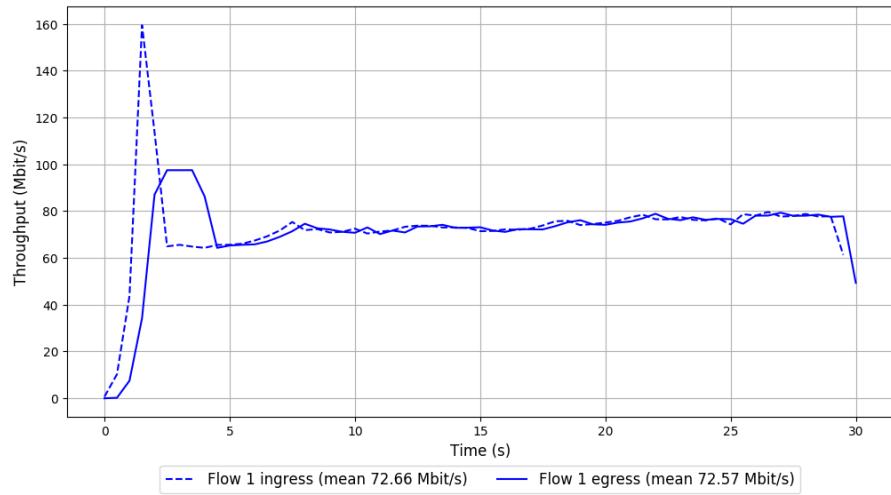


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-07-18 06:46:13
End at: 2019-07-18 06:46:43
Local clock offset: -6.688 ms
Remote clock offset: -4.946 ms

# Below is generated by plot.py at 2019-07-18 07:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.57 Mbit/s
95th percentile per-packet one-way delay: 323.440 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 72.57 Mbit/s
95th percentile per-packet one-way delay: 323.440 ms
Loss rate: 0.70%
```

Run 5: Report of PCC-Allegro — Data Link

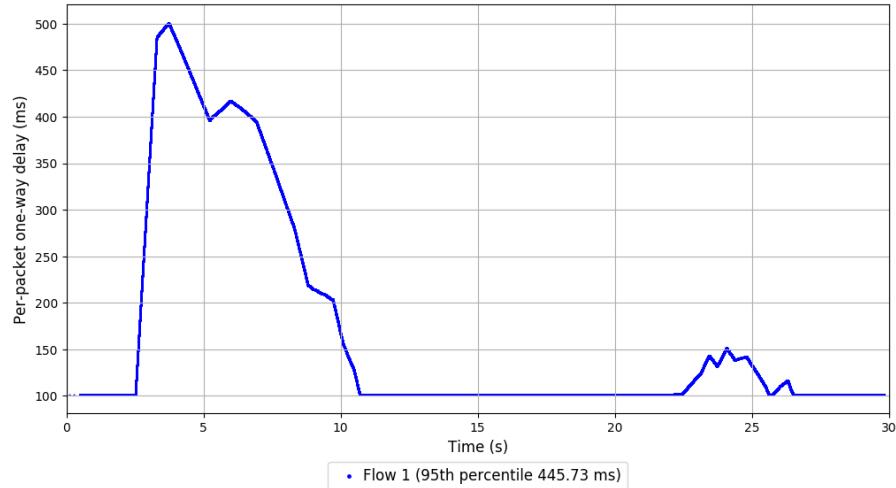
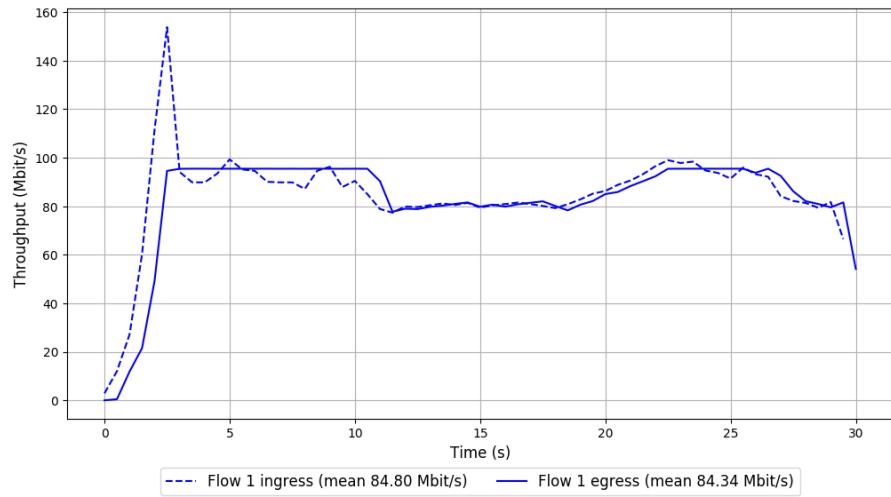


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-07-18 05:07:07
End at: 2019-07-18 05:07:37
Local clock offset: -6.845 ms
Remote clock offset: -8.808 ms

# Below is generated by plot.py at 2019-07-18 07:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.34 Mbit/s
95th percentile per-packet one-way delay: 445.731 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 84.34 Mbit/s
95th percentile per-packet one-way delay: 445.731 ms
Loss rate: 1.12%
```

Run 1: Report of PCC-Expr — Data Link

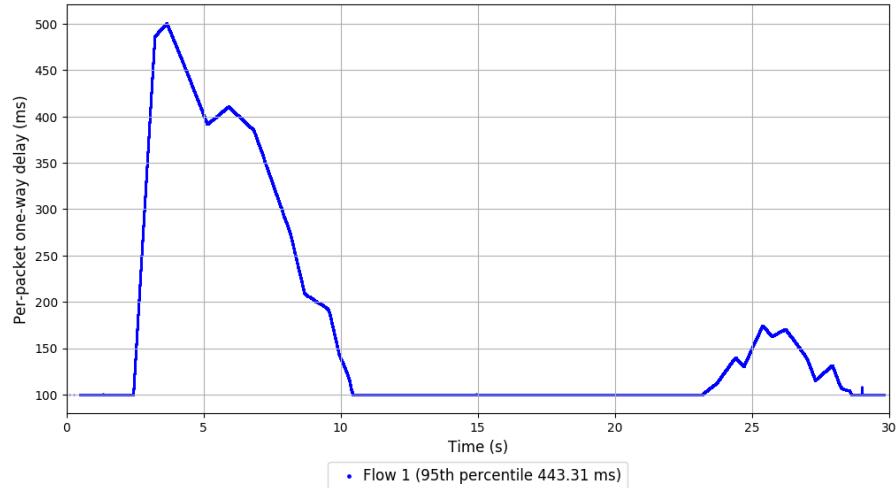
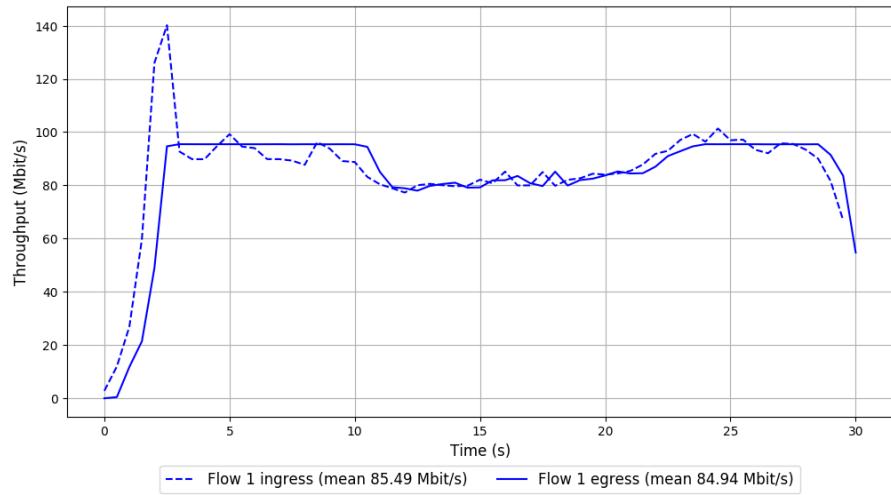


Run 2: Statistics of PCC-Expr

```
Start at: 2019-07-18 05:35:45
End at: 2019-07-18 05:36:15
Local clock offset: -6.07 ms
Remote clock offset: -8.119 ms

# Below is generated by plot.py at 2019-07-18 07:21:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.94 Mbit/s
95th percentile per-packet one-way delay: 443.315 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 84.94 Mbit/s
95th percentile per-packet one-way delay: 443.315 ms
Loss rate: 1.24%
```

Run 2: Report of PCC-Expr — Data Link

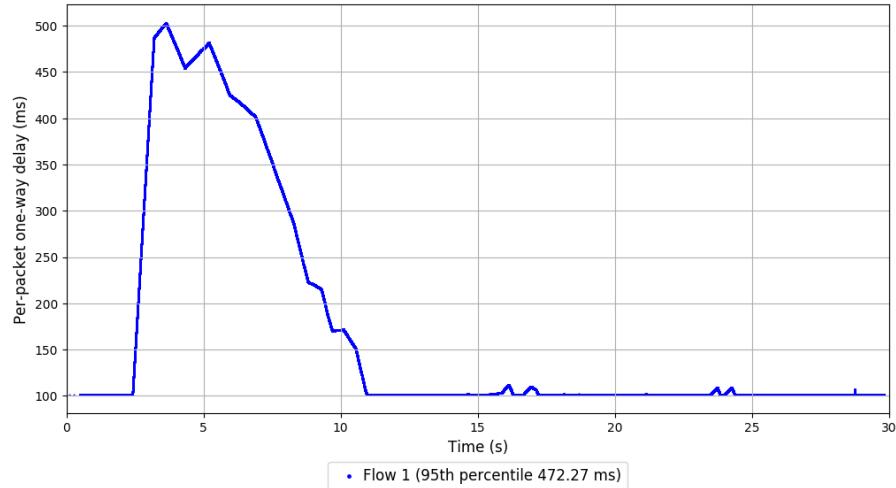
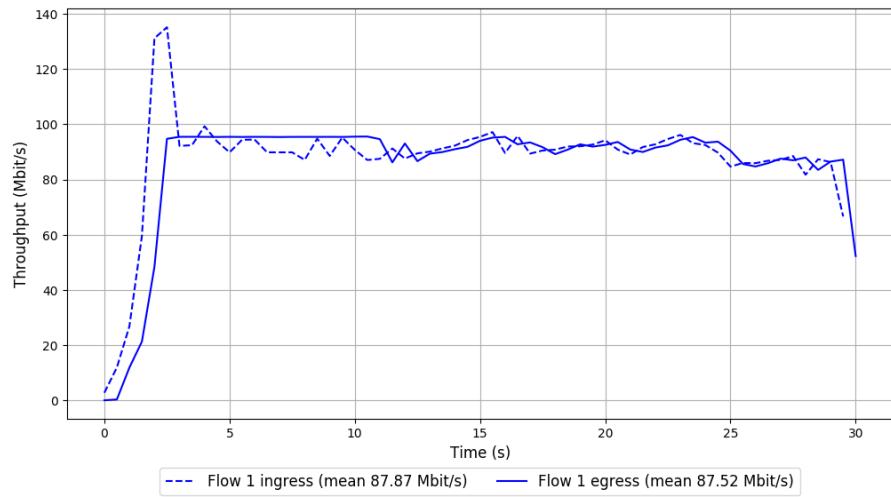


Run 3: Statistics of PCC-Expr

```
Start at: 2019-07-18 06:04:24
End at: 2019-07-18 06:04:54
Local clock offset: -6.728 ms
Remote clock offset: -9.648 ms

# Below is generated by plot.py at 2019-07-18 07:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.52 Mbit/s
95th percentile per-packet one-way delay: 472.266 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 87.52 Mbit/s
95th percentile per-packet one-way delay: 472.266 ms
Loss rate: 0.98%
```

Run 3: Report of PCC-Expr — Data Link

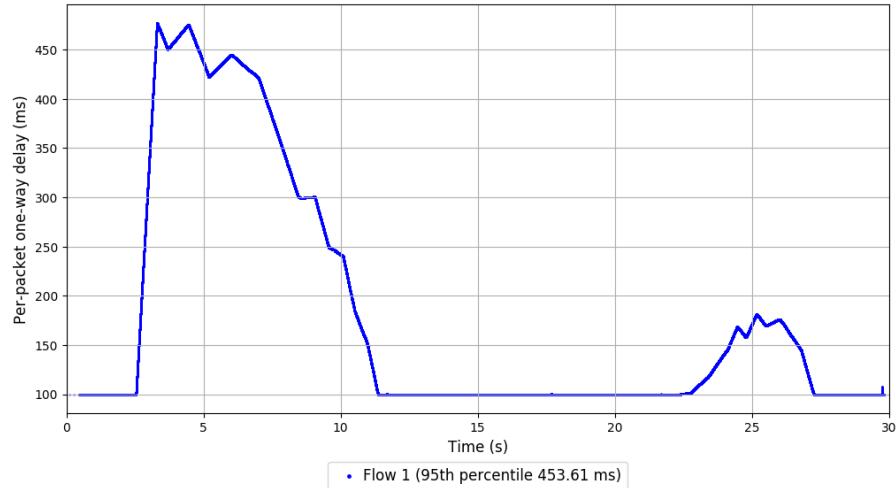
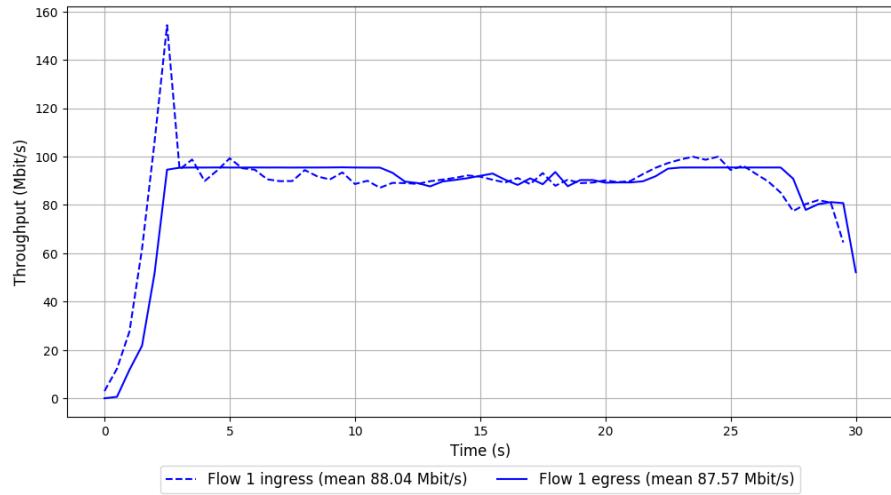


Run 4: Statistics of PCC-Expr

```
Start at: 2019-07-18 06:33:00
End at: 2019-07-18 06:33:30
Local clock offset: -6.513 ms
Remote clock offset: -7.032 ms

# Below is generated by plot.py at 2019-07-18 07:21:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 453.608 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 453.608 ms
Loss rate: 1.12%
```

Run 4: Report of PCC-Expr — Data Link

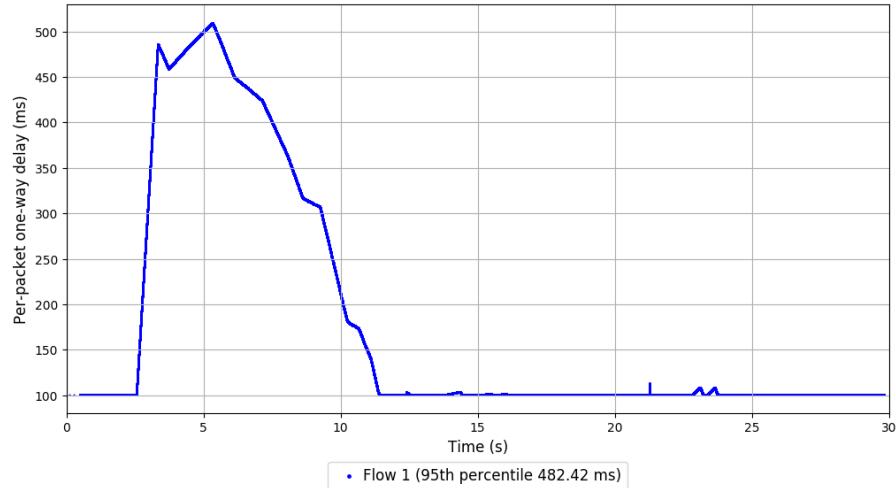
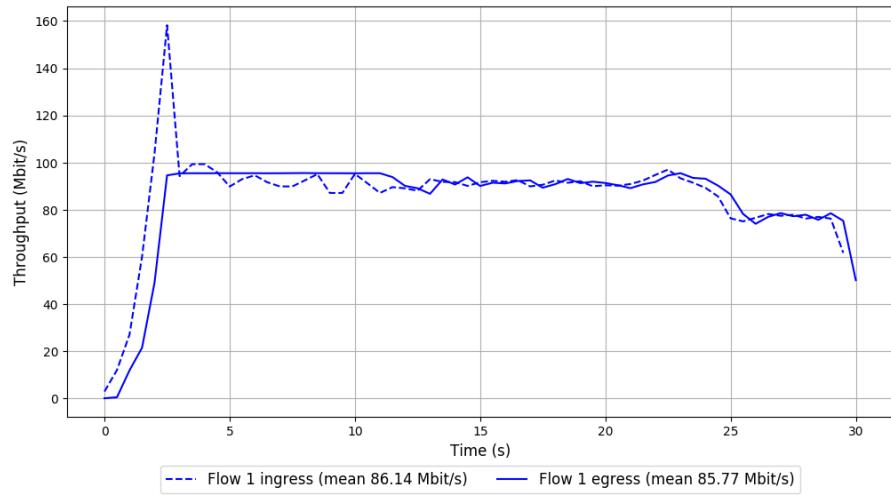


Run 5: Statistics of PCC-Expr

```
Start at: 2019-07-18 07:01:38
End at: 2019-07-18 07:02:08
Local clock offset: -5.06 ms
Remote clock offset: -5.732 ms

# Below is generated by plot.py at 2019-07-18 07:21:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.77 Mbit/s
95th percentile per-packet one-way delay: 482.421 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 85.77 Mbit/s
95th percentile per-packet one-way delay: 482.421 ms
Loss rate: 1.01%
```

Run 5: Report of PCC-Expr — Data Link

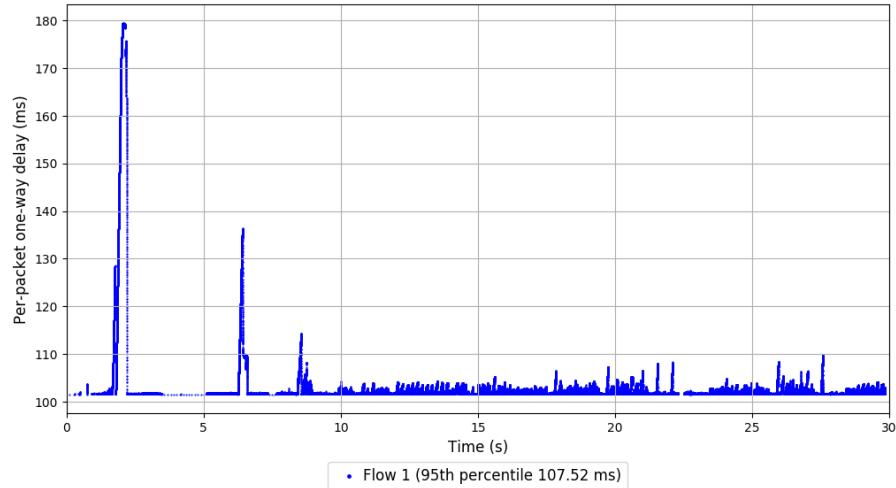
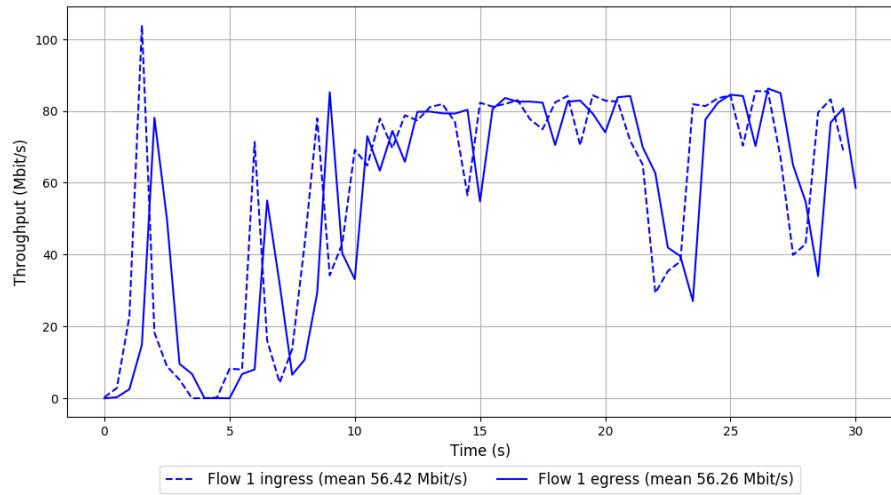


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-07-18 05:02:28
End at: 2019-07-18 05:02:58
Local clock offset: -6.891 ms
Remote clock offset: -9.89 ms

# Below is generated by plot.py at 2019-07-18 07:21:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.26 Mbit/s
95th percentile per-packet one-way delay: 107.519 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 56.26 Mbit/s
95th percentile per-packet one-way delay: 107.519 ms
Loss rate: 0.86%
```

Run 1: Report of QUIC Cubic — Data Link

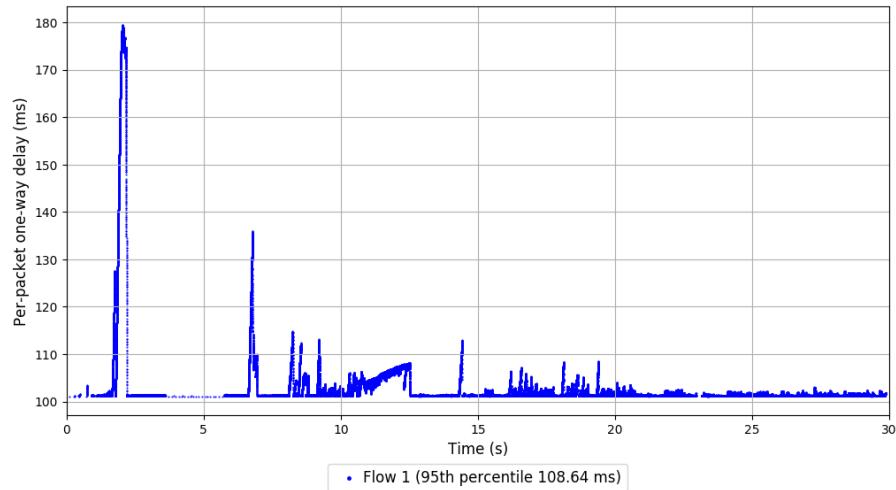
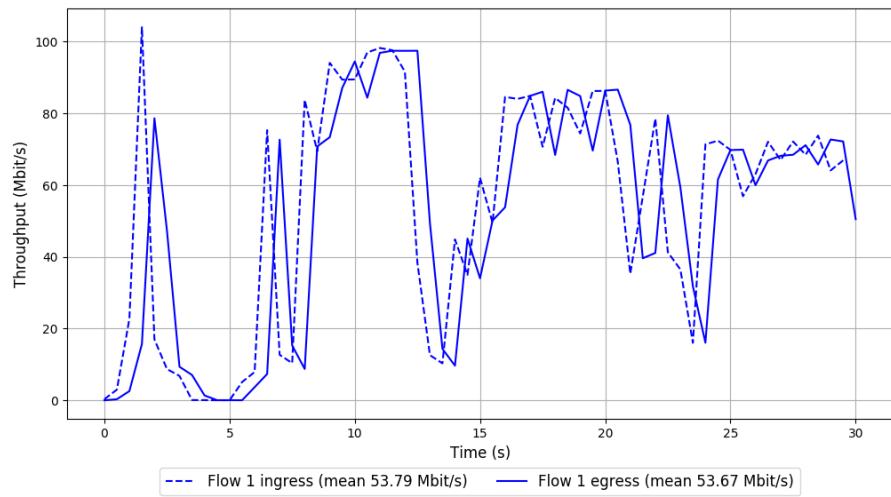


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-07-18 05:31:07
End at: 2019-07-18 05:31:37
Local clock offset: -6.962 ms
Remote clock offset: -9.598 ms

# Below is generated by plot.py at 2019-07-18 07:21:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.67 Mbit/s
95th percentile per-packet one-way delay: 108.636 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 53.67 Mbit/s
95th percentile per-packet one-way delay: 108.636 ms
Loss rate: 0.81%
```

Run 2: Report of QUIC Cubic — Data Link

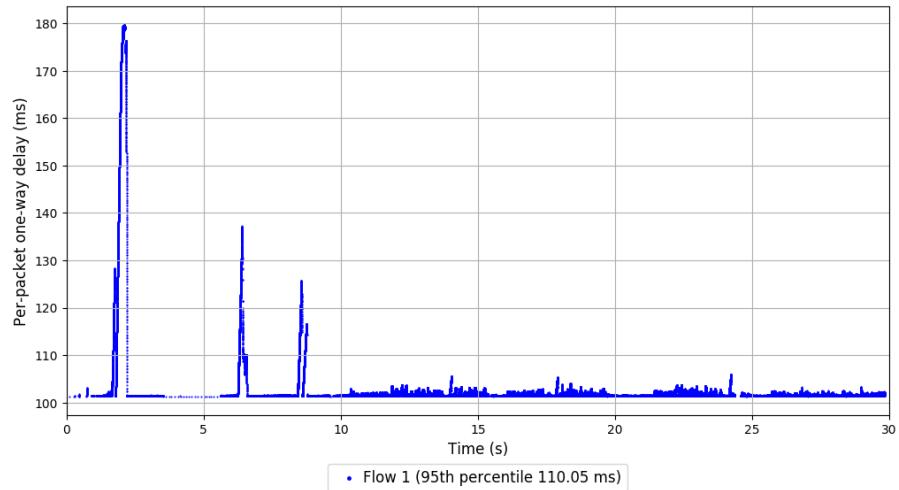
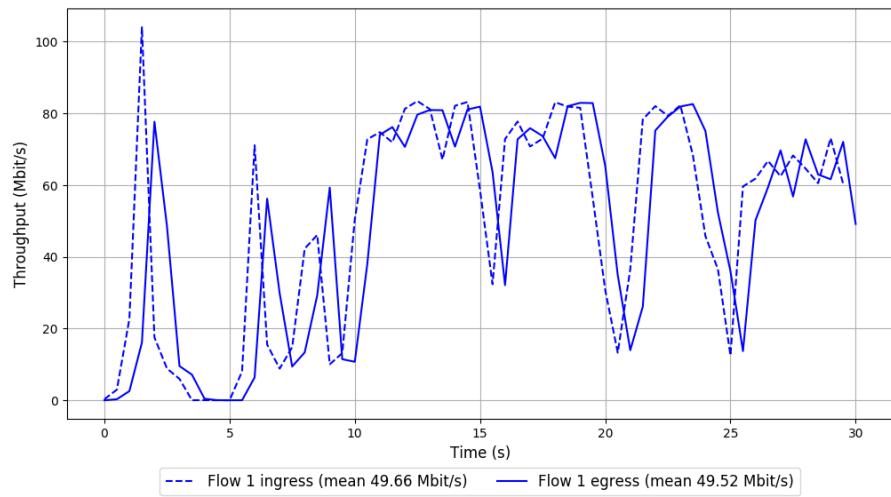


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-07-18 05:59:46
End at: 2019-07-18 06:00:16
Local clock offset: -7.031 ms
Remote clock offset: -10.312 ms

# Below is generated by plot.py at 2019-07-18 07:21:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.52 Mbit/s
95th percentile per-packet one-way delay: 110.052 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 49.52 Mbit/s
95th percentile per-packet one-way delay: 110.052 ms
Loss rate: 0.85%
```

Run 3: Report of QUIC Cubic — Data Link

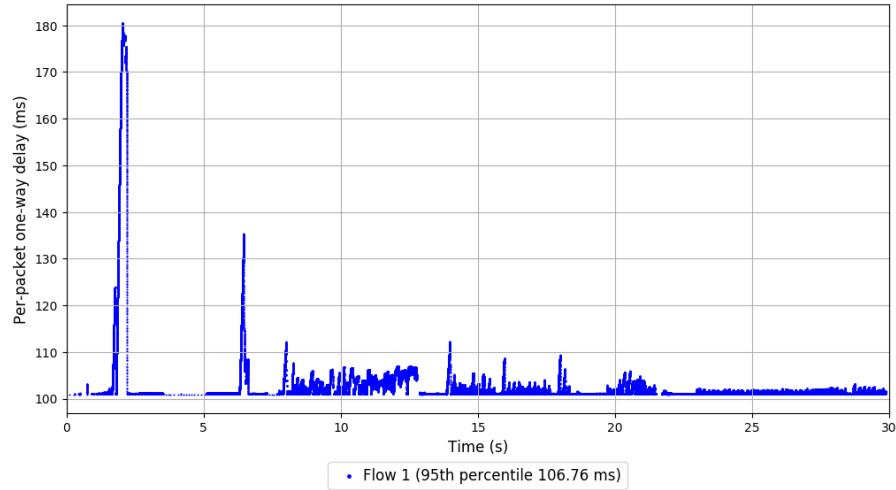
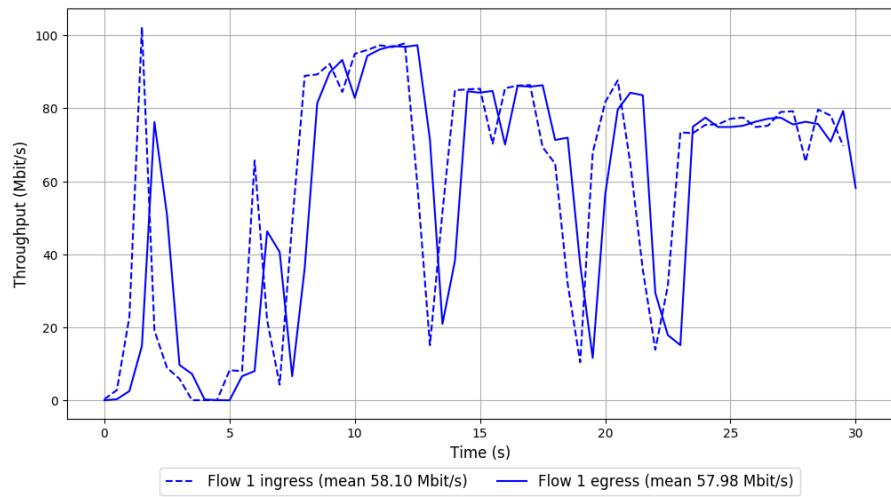


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-07-18 06:28:22
End at: 2019-07-18 06:28:52
Local clock offset: -6.668 ms
Remote clock offset: -9.438 ms

# Below is generated by plot.py at 2019-07-18 07:21:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.98 Mbit/s
95th percentile per-packet one-way delay: 106.758 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 57.98 Mbit/s
95th percentile per-packet one-way delay: 106.758 ms
Loss rate: 0.80%
```

Run 4: Report of QUIC Cubic — Data Link

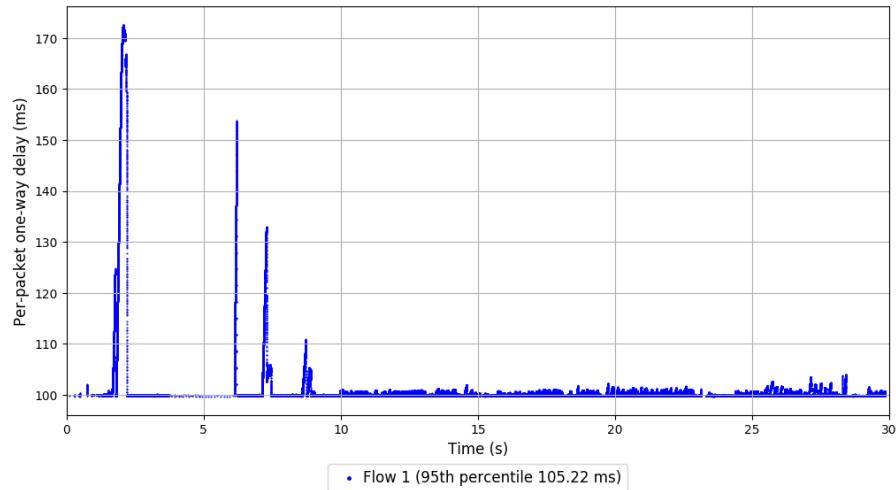
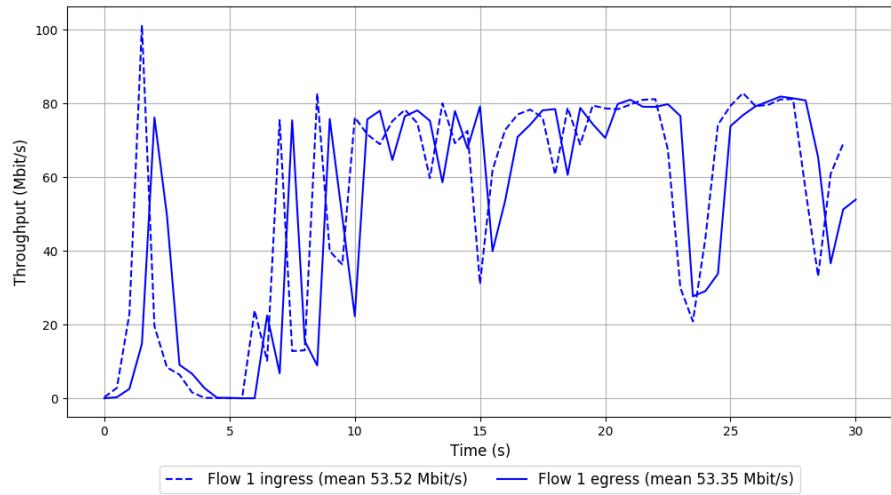


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-07-18 06:56:59
End at: 2019-07-18 06:57:29
Local clock offset: -6.027 ms
Remote clock offset: -5.093 ms

# Below is generated by plot.py at 2019-07-18 07:21:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.35 Mbit/s
95th percentile per-packet one-way delay: 105.220 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 53.35 Mbit/s
95th percentile per-packet one-way delay: 105.220 ms
Loss rate: 0.90%
```

Run 5: Report of QUIC Cubic — Data Link

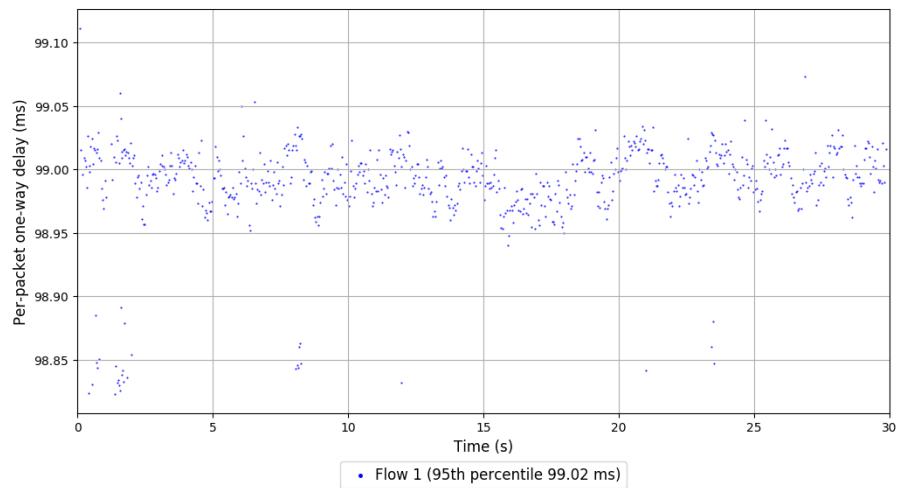
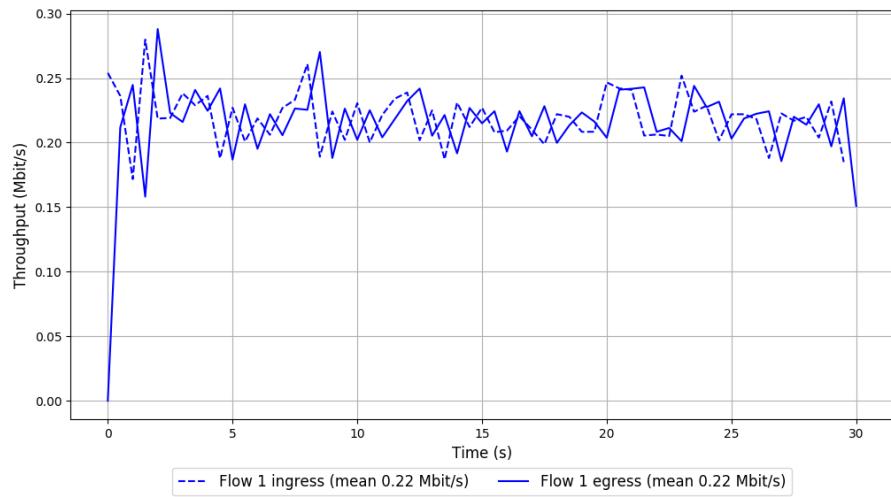


```
Run 1: Statistics of SCReAM

Start at: 2019-07-18 05:04:51
End at: 2019-07-18 05:05:21
Local clock offset: -6.838 ms
Remote clock offset: -6.852 ms

# Below is generated by plot.py at 2019-07-18 07:21:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.024 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.024 ms
Loss rate: 0.51%
```

Run 1: Report of SCReAM — Data Link

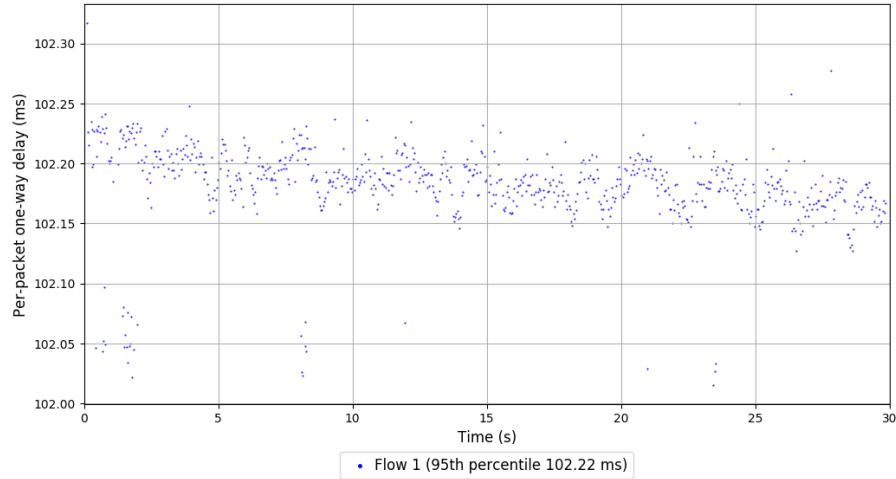
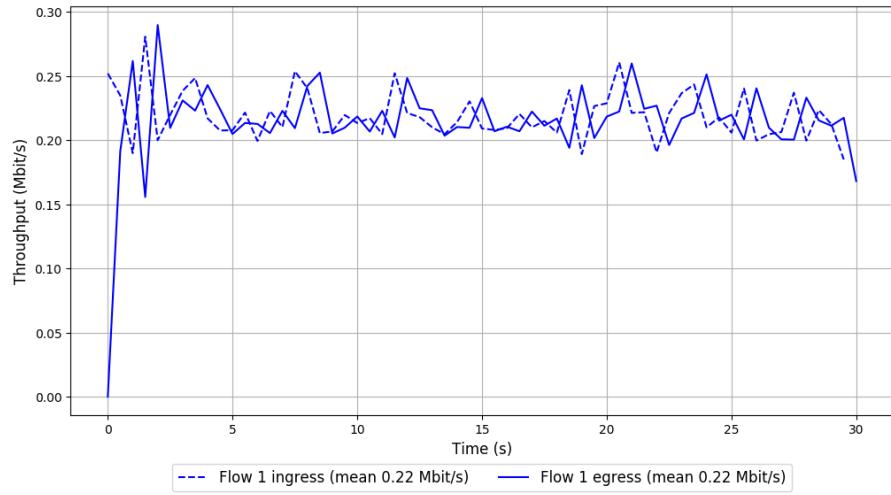


Run 2: Statistics of SCReAM

```
Start at: 2019-07-18 05:33:29
End at: 2019-07-18 05:33:59
Local clock offset: -6.671 ms
Remote clock offset: -10.769 ms

# Below is generated by plot.py at 2019-07-18 07:21:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 102.225 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 102.225 ms
Loss rate: 0.51%
```

Run 2: Report of SCReAM — Data Link

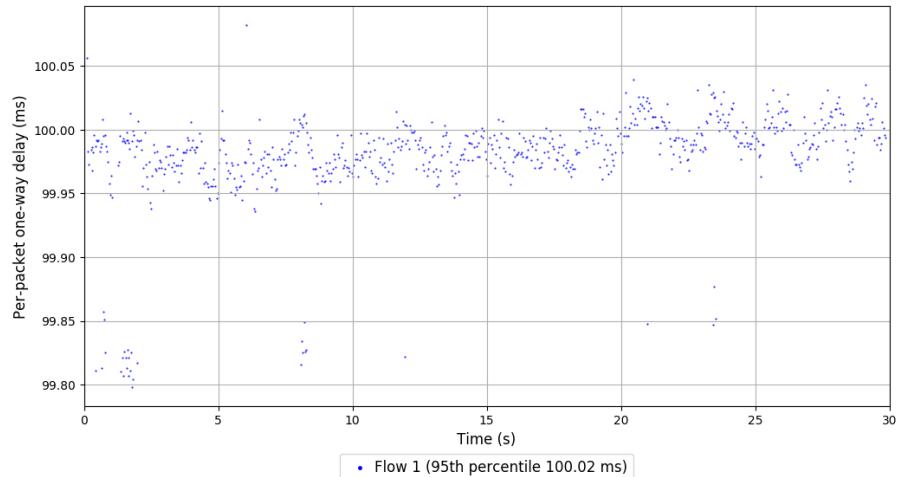
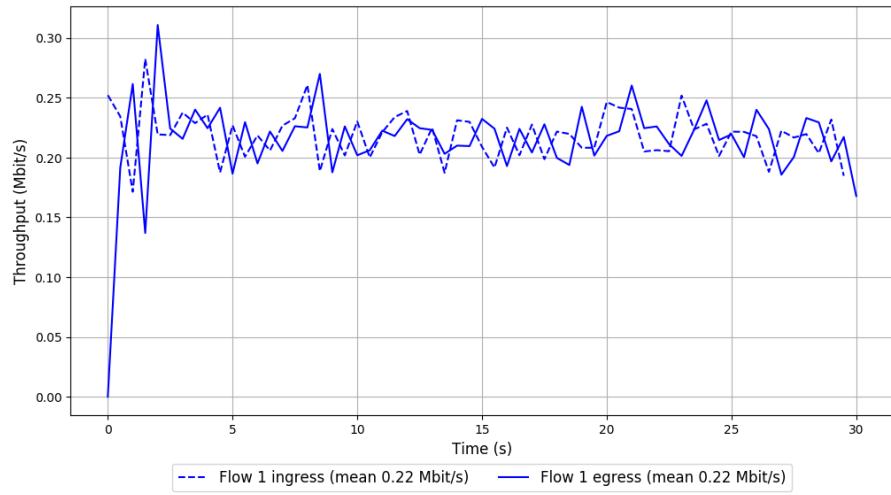


Run 3: Statistics of SCReAM

```
Start at: 2019-07-18 06:02:08
End at: 2019-07-18 06:02:38
Local clock offset: -7.227 ms
Remote clock offset: -8.857 ms

# Below is generated by plot.py at 2019-07-18 07:21:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.017 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.017 ms
Loss rate: 0.51%
```

Run 3: Report of SCReAM — Data Link

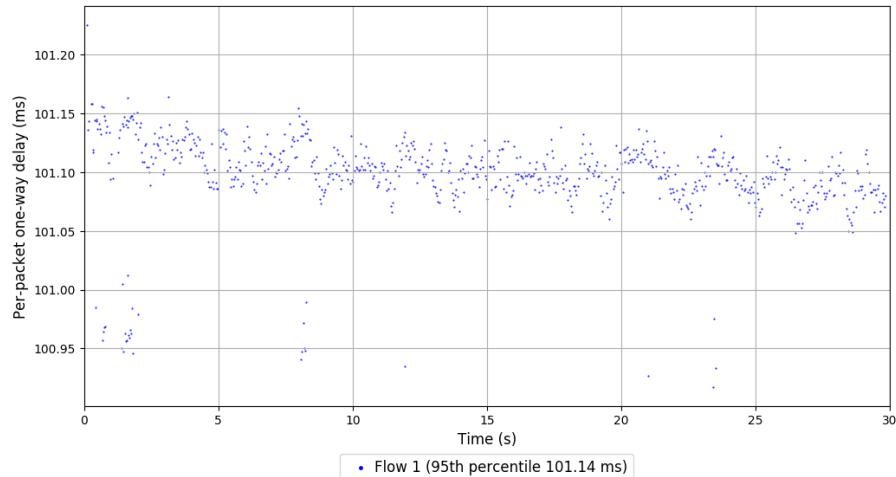
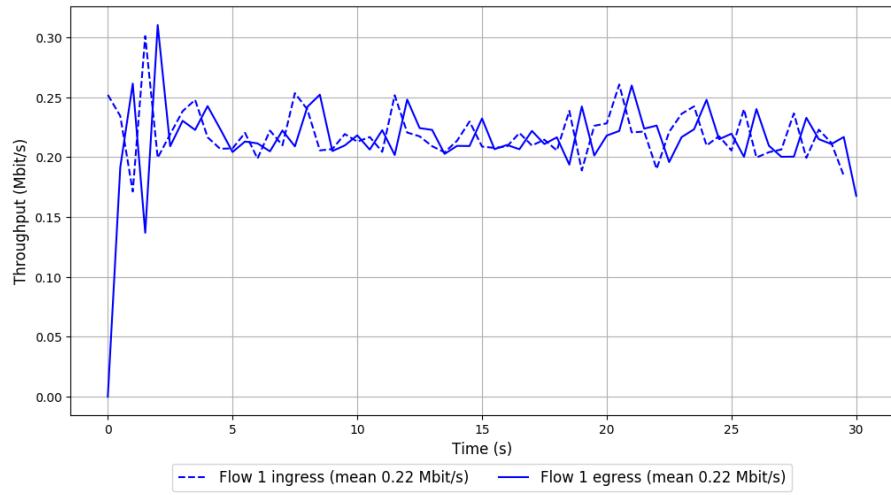


Run 4: Statistics of SCReAM

```
Start at: 2019-07-18 06:30:45
End at: 2019-07-18 06:31:15
Local clock offset: -6.741 ms
Remote clock offset: -9.774 ms

# Below is generated by plot.py at 2019-07-18 07:21:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 101.138 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 101.138 ms
Loss rate: 0.51%
```

Run 4: Report of SCReAM — Data Link

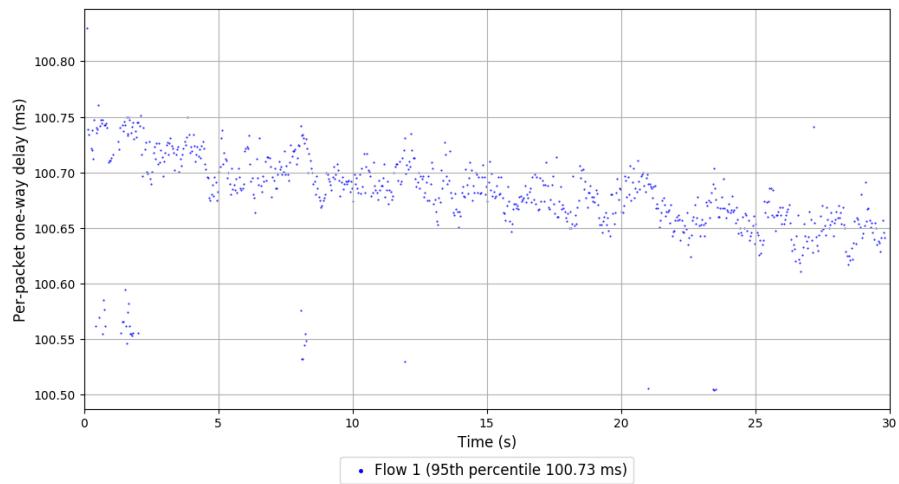
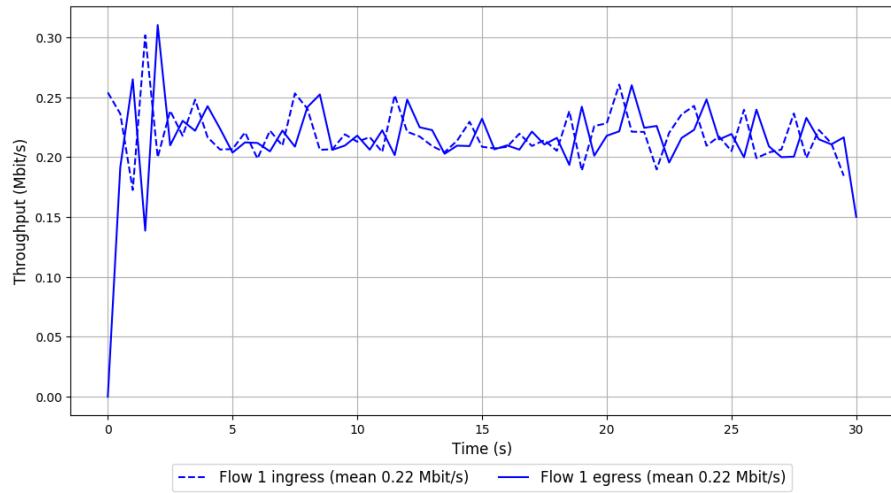


Run 5: Statistics of SCReAM

```
Start at: 2019-07-18 06:59:22
End at: 2019-07-18 06:59:52
Local clock offset: -4.691 ms
Remote clock offset: -4.906 ms

# Below is generated by plot.py at 2019-07-18 07:21:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.735 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.735 ms
Loss rate: 0.64%
```

Run 5: Report of SCReAM — Data Link

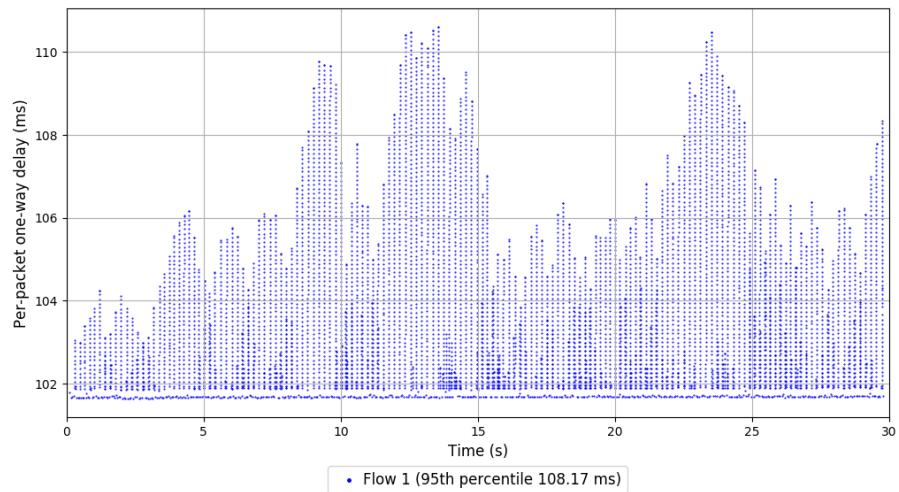
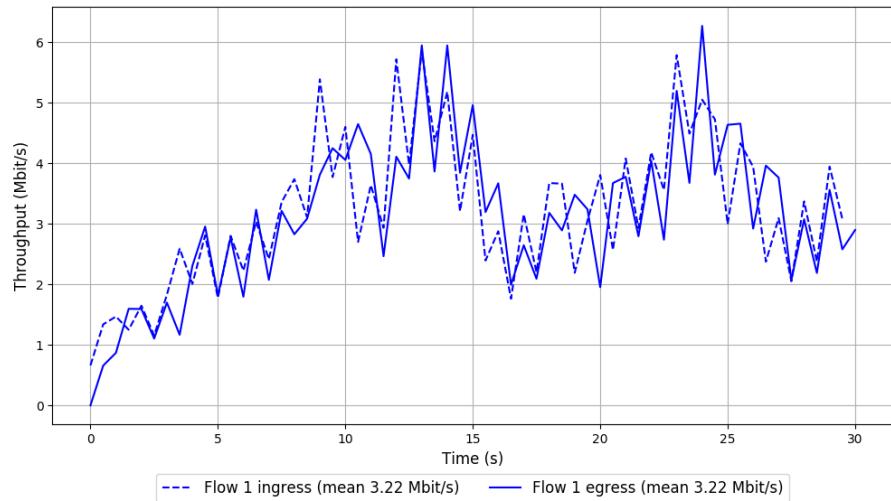


Run 1: Statistics of Sprout

```
Start at: 2019-07-18 05:09:34
End at: 2019-07-18 05:10:04
Local clock offset: -6.107 ms
Remote clock offset: -8.793 ms

# Below is generated by plot.py at 2019-07-18 07:21:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 108.167 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 108.167 ms
Loss rate: 0.81%
```

Run 1: Report of Sprout — Data Link

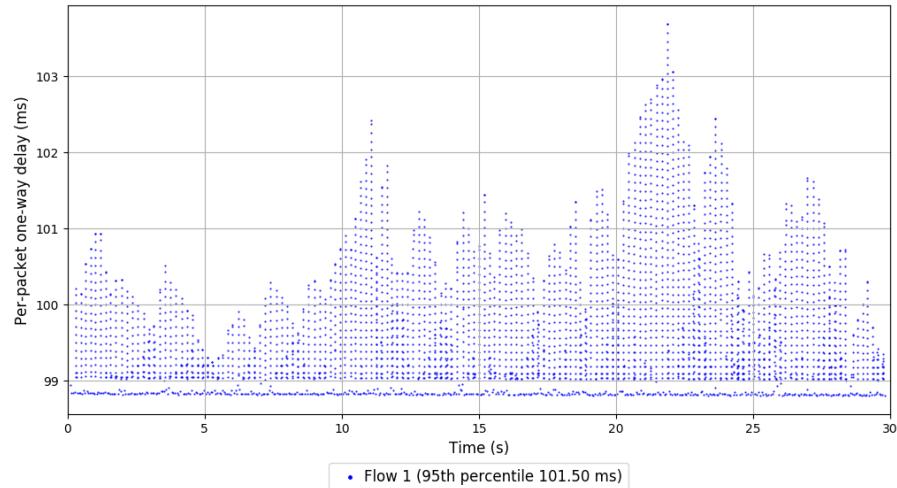
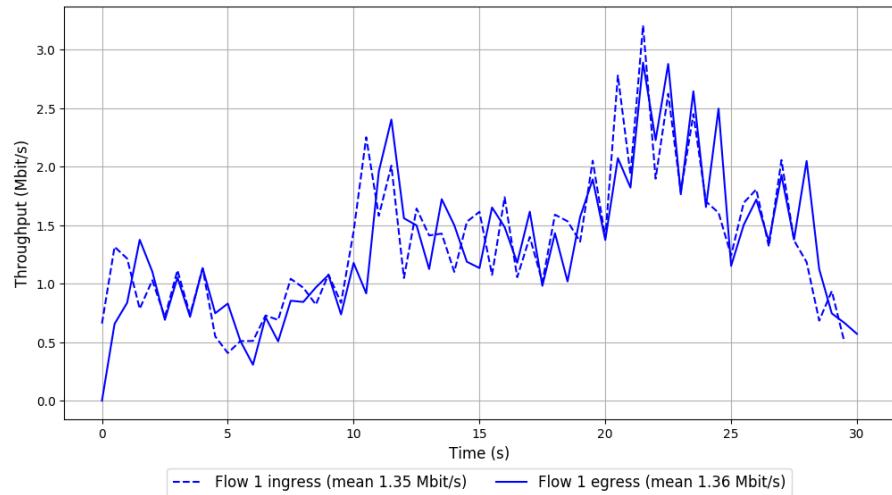


Run 2: Statistics of Sprout

```
Start at: 2019-07-18 05:38:14
End at: 2019-07-18 05:38:44
Local clock offset: -6.621 ms
Remote clock offset: -7.883 ms

# Below is generated by plot.py at 2019-07-18 07:21:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 101.500 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 101.500 ms
Loss rate: 0.25%
```

Run 2: Report of Sprout — Data Link

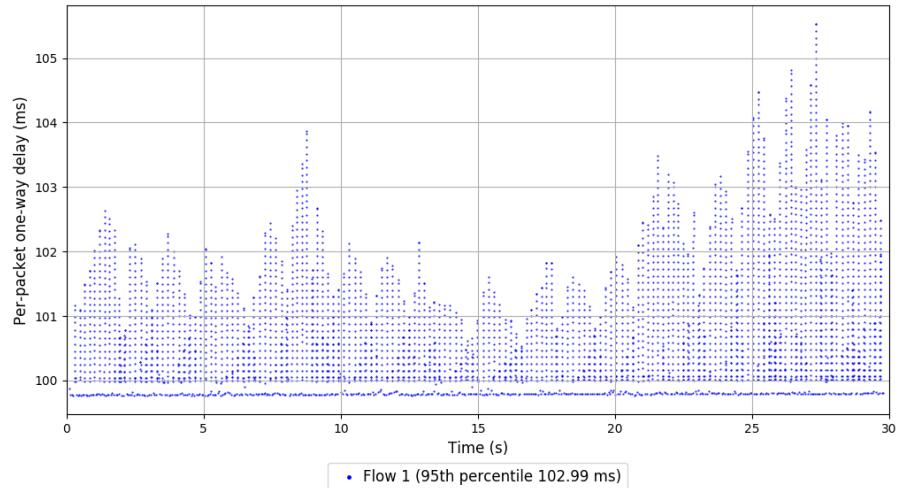
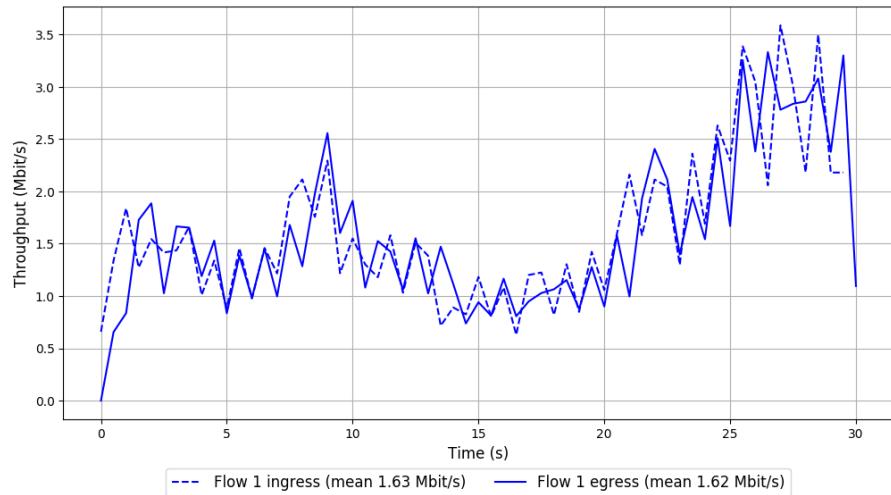


Run 3: Statistics of Sprout

```
Start at: 2019-07-18 06:06:51
End at: 2019-07-18 06:07:21
Local clock offset: -6.821 ms
Remote clock offset: -8.46 ms

# Below is generated by plot.py at 2019-07-18 07:21:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 102.990 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 102.990 ms
Loss rate: 1.12%
```

Run 3: Report of Sprout — Data Link

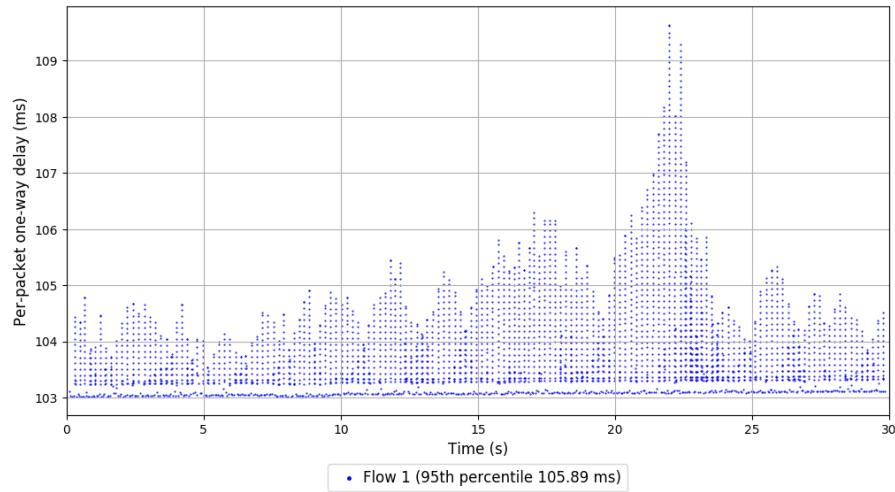
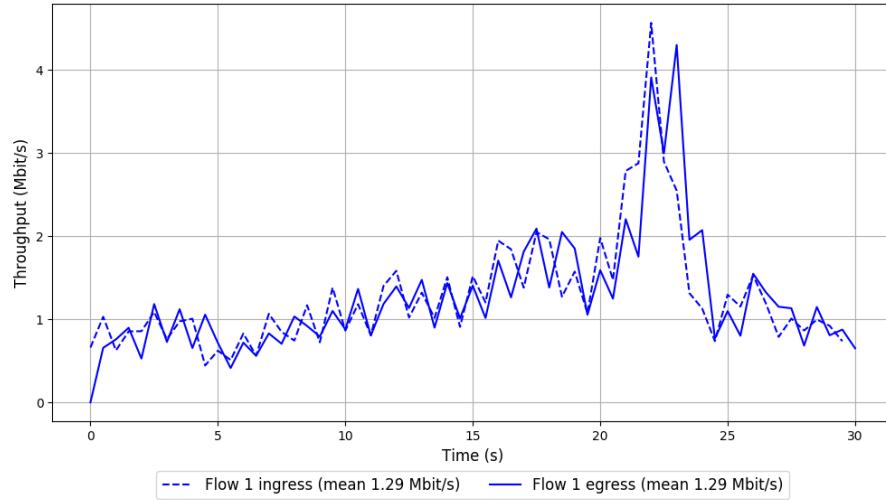


Run 4: Statistics of Sprout

```
Start at: 2019-07-18 06:35:27
End at: 2019-07-18 06:35:57
Local clock offset: -6.406 ms
Remote clock offset: -10.06 ms

# Below is generated by plot.py at 2019-07-18 07:21:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 105.890 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 105.890 ms
Loss rate: 0.48%
```

Run 4: Report of Sprout — Data Link

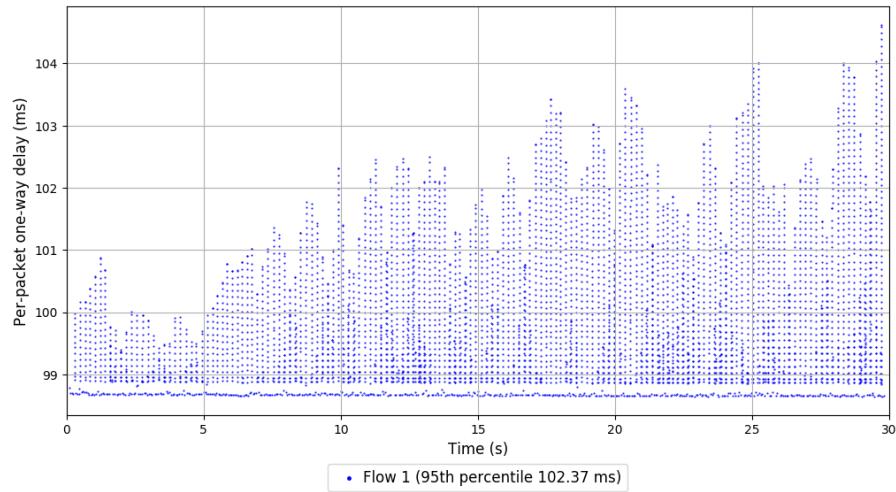
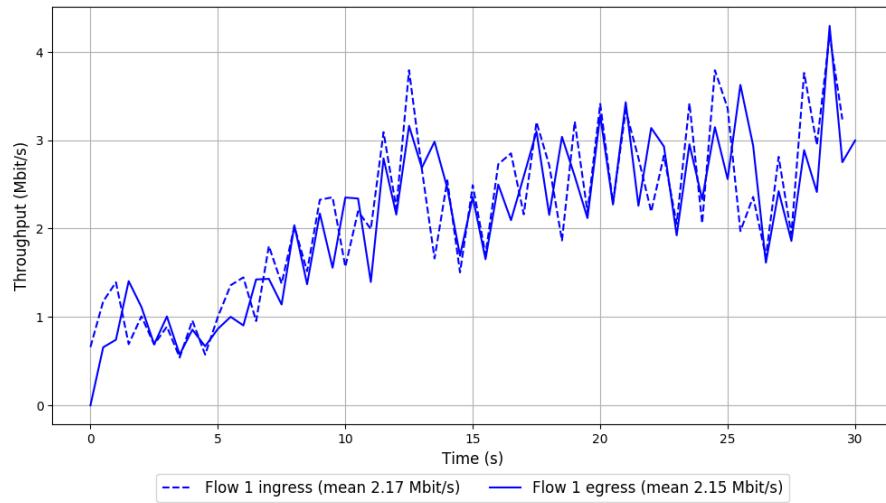


Run 5: Statistics of Sprout

```
Start at: 2019-07-18 07:04:05
End at: 2019-07-18 07:04:35
Local clock offset: -4.72 ms
Remote clock offset: -4.303 ms

# Below is generated by plot.py at 2019-07-18 07:21:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 102.366 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 102.366 ms
Loss rate: 1.30%
```

Run 5: Report of Sprout — Data Link

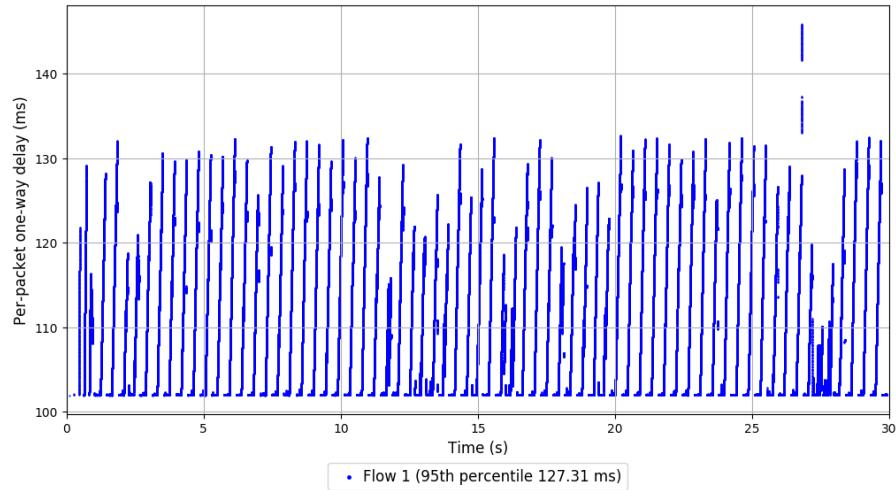
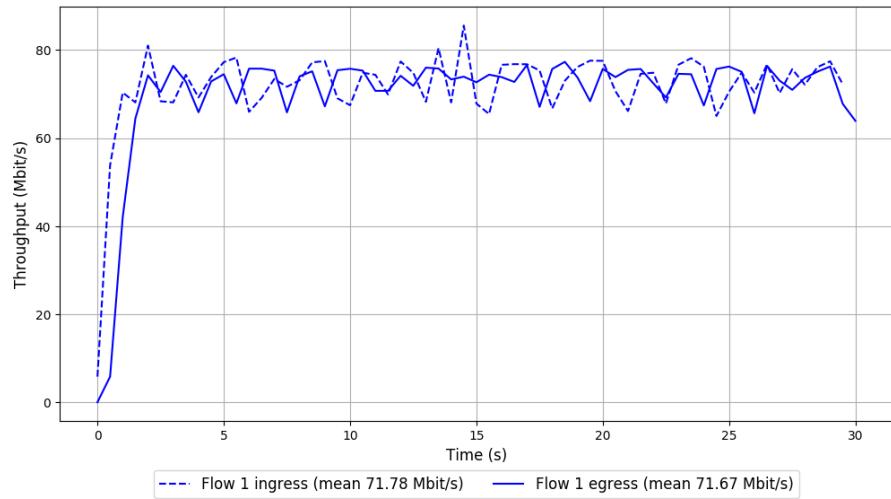


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-07-18 05:10:42
End at: 2019-07-18 05:11:12
Local clock offset: -6.051 ms
Remote clock offset: -8.468 ms

# Below is generated by plot.py at 2019-07-18 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.67 Mbit/s
95th percentile per-packet one-way delay: 127.306 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 71.67 Mbit/s
95th percentile per-packet one-way delay: 127.306 ms
Loss rate: 0.75%
```

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

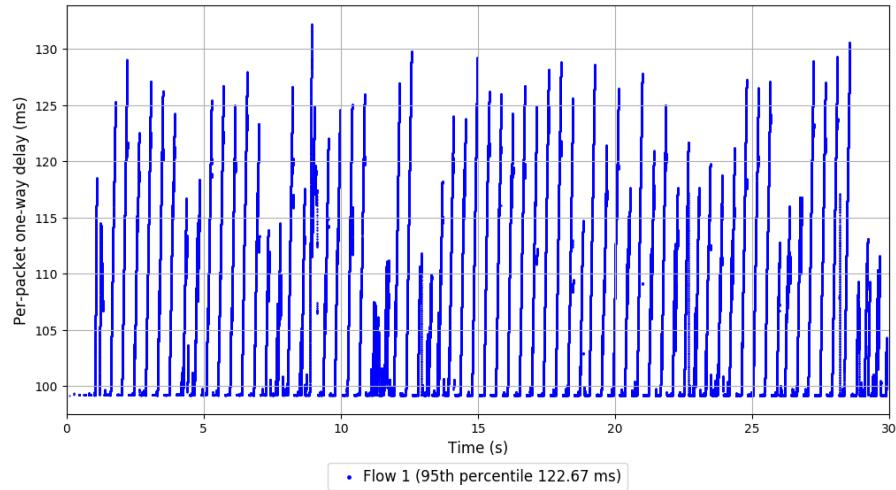
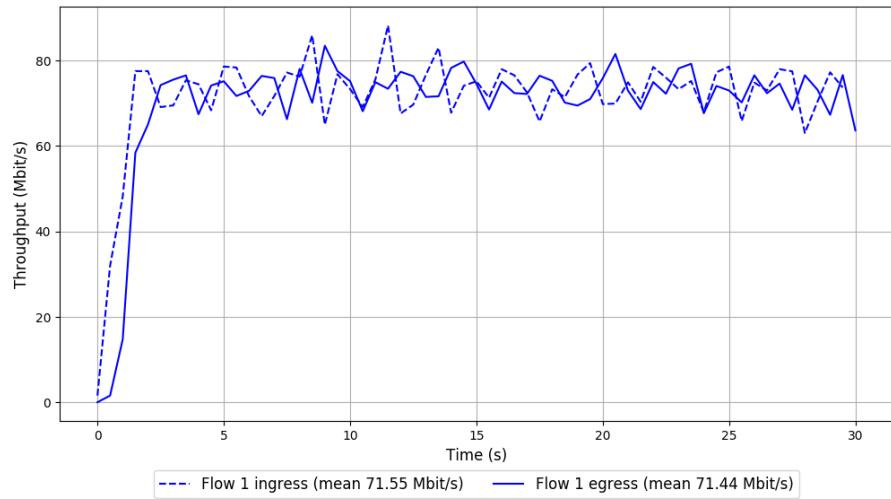


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-07-18 05:39:22
End at: 2019-07-18 05:39:52
Local clock offset: -6.071 ms
Remote clock offset: -8.226 ms

# Below is generated by plot.py at 2019-07-18 07:23:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.44 Mbit/s
95th percentile per-packet one-way delay: 122.670 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 71.44 Mbit/s
95th percentile per-packet one-way delay: 122.670 ms
Loss rate: 0.65%
```

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

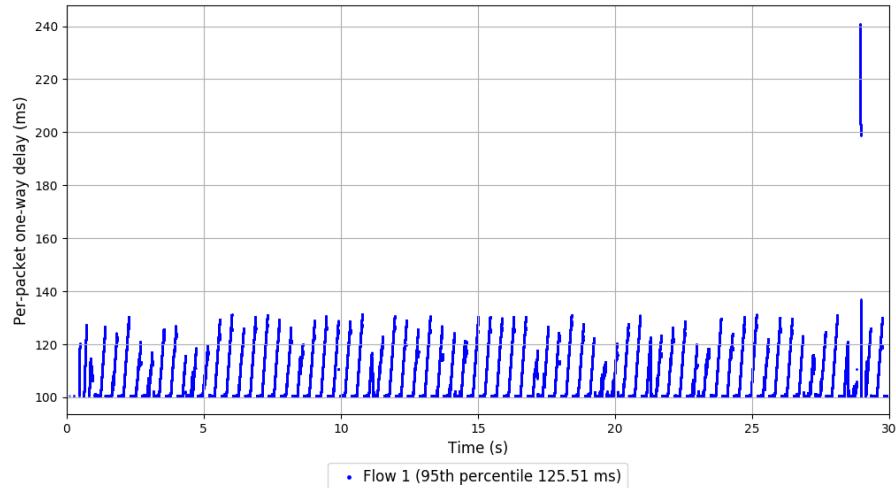
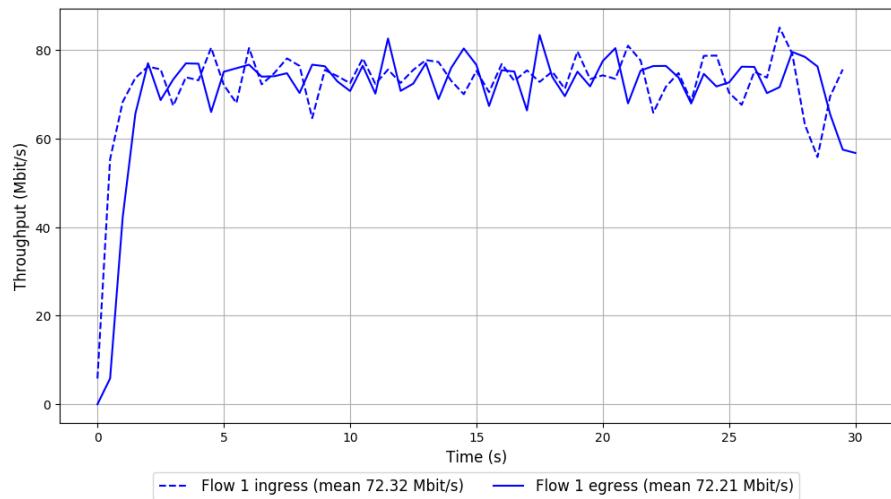


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-07-18 06:07:59
End at: 2019-07-18 06:08:29
Local clock offset: -6.646 ms
Remote clock offset: -8.443 ms

# Below is generated by plot.py at 2019-07-18 07:23:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.21 Mbit/s
95th percentile per-packet one-way delay: 125.508 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 72.21 Mbit/s
95th percentile per-packet one-way delay: 125.508 ms
Loss rate: 0.73%
```

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

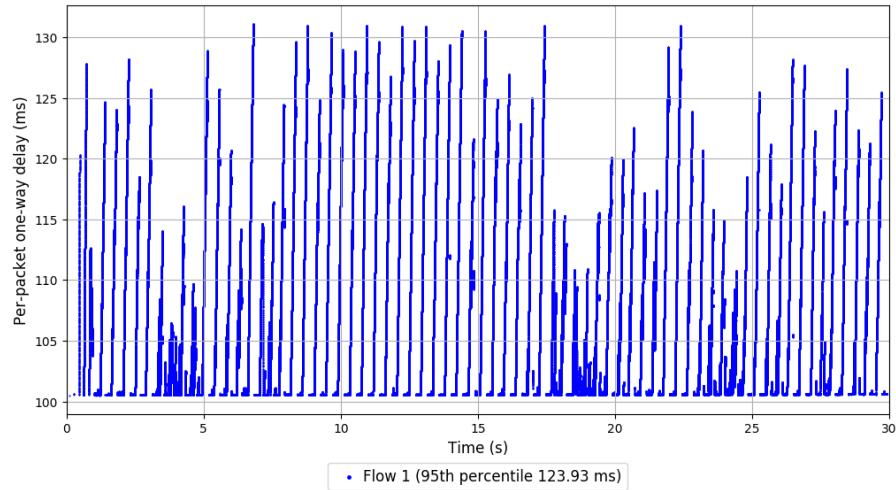
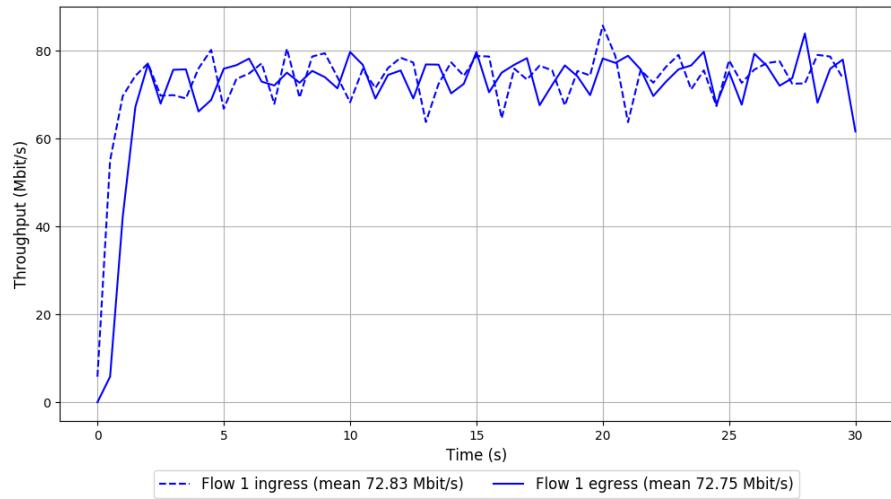


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-07-18 06:36:35
End at: 2019-07-18 06:37:05
Local clock offset: -6.131 ms
Remote clock offset: -7.306 ms

# Below is generated by plot.py at 2019-07-18 07:23:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.75 Mbit/s
95th percentile per-packet one-way delay: 123.928 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 72.75 Mbit/s
95th percentile per-packet one-way delay: 123.928 ms
Loss rate: 0.71%
```

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

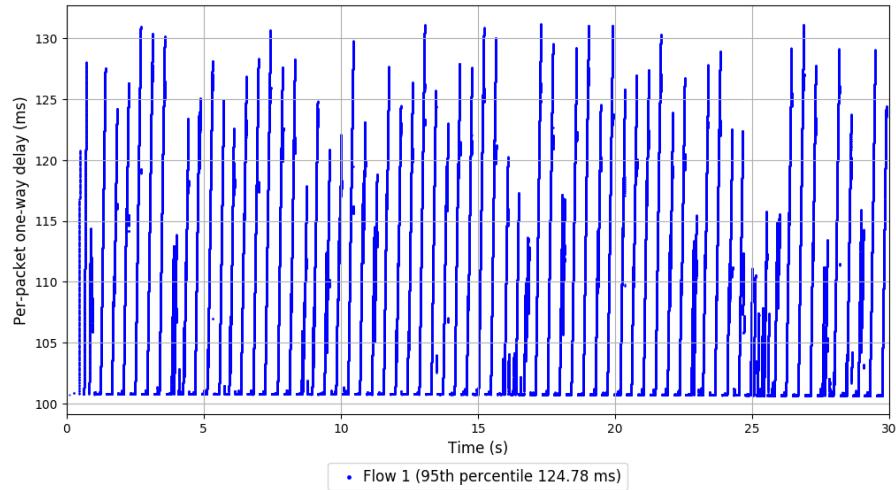
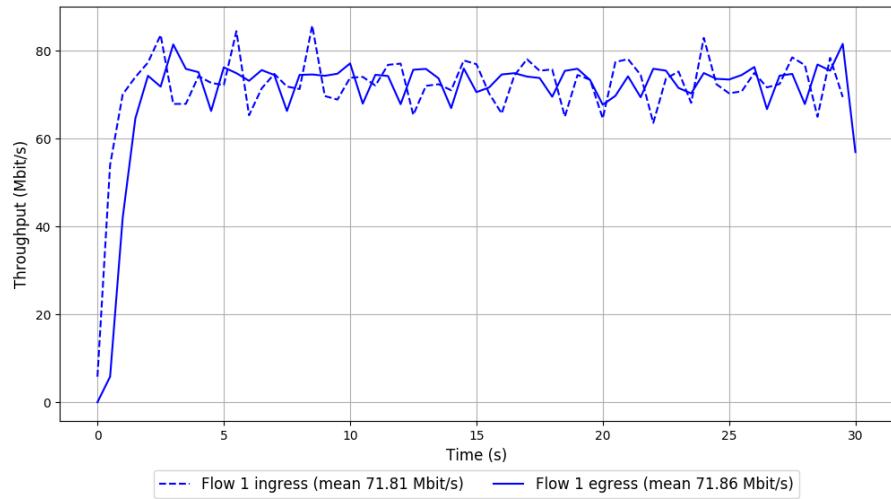


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-07-18 07:05:12
End at: 2019-07-18 07:05:42
Local clock offset: -4.622 ms
Remote clock offset: -5.558 ms

# Below is generated by plot.py at 2019-07-18 07:23:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.86 Mbit/s
95th percentile per-packet one-way delay: 124.775 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 71.86 Mbit/s
95th percentile per-packet one-way delay: 124.775 ms
Loss rate: 0.52%
```

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

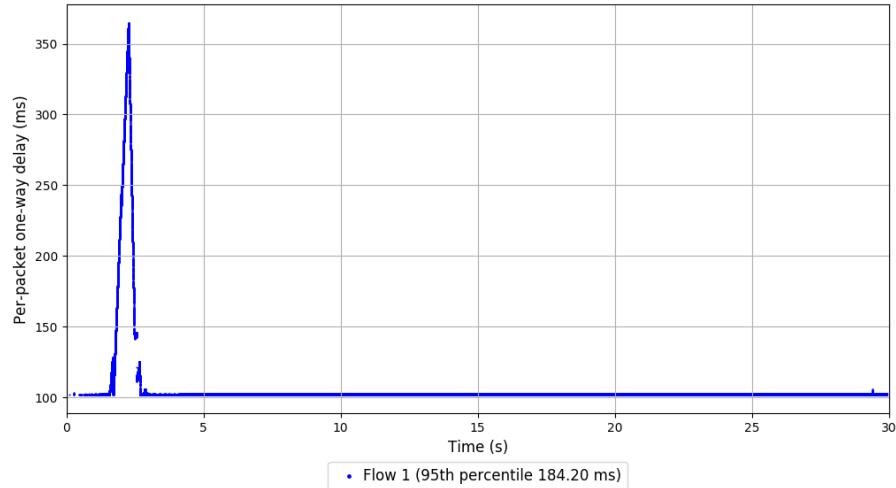
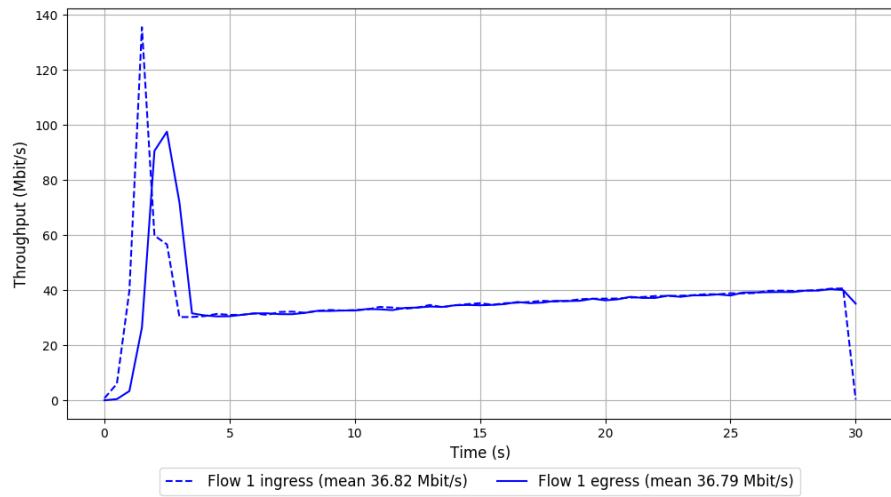


Run 1: Statistics of TCP Vegas

```
Start at: 2019-07-18 05:01:19
End at: 2019-07-18 05:01:49
Local clock offset: -6.345 ms
Remote clock offset: -8.858 ms

# Below is generated by plot.py at 2019-07-18 07:23:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.79 Mbit/s
95th percentile per-packet one-way delay: 184.198 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 36.79 Mbit/s
95th percentile per-packet one-way delay: 184.198 ms
Loss rate: 0.67%
```

Run 1: Report of TCP Vegas — Data Link

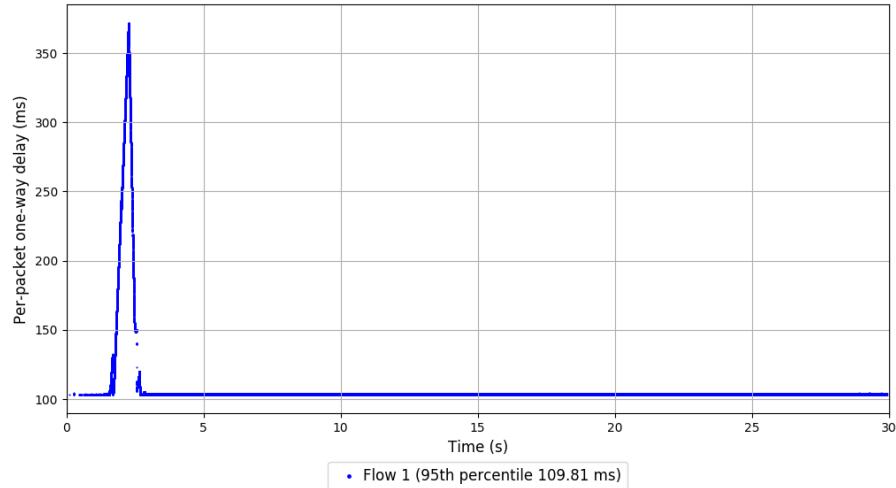
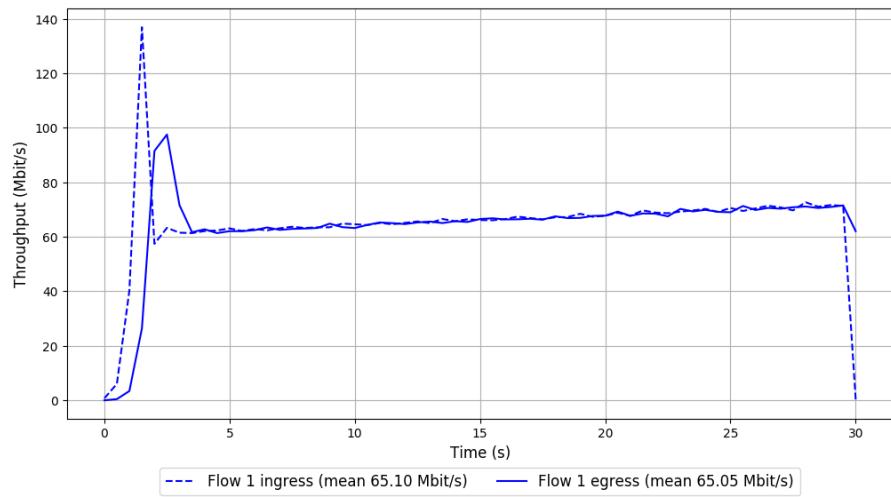


Run 2: Statistics of TCP Vegas

```
Start at: 2019-07-18 05:29:55
End at: 2019-07-18 05:30:25
Local clock offset: -6.028 ms
Remote clock offset: -10.339 ms

# Below is generated by plot.py at 2019-07-18 07:23:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.05 Mbit/s
95th percentile per-packet one-way delay: 109.806 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 65.05 Mbit/s
95th percentile per-packet one-way delay: 109.806 ms
Loss rate: 0.66%
```

Run 2: Report of TCP Vegas — Data Link

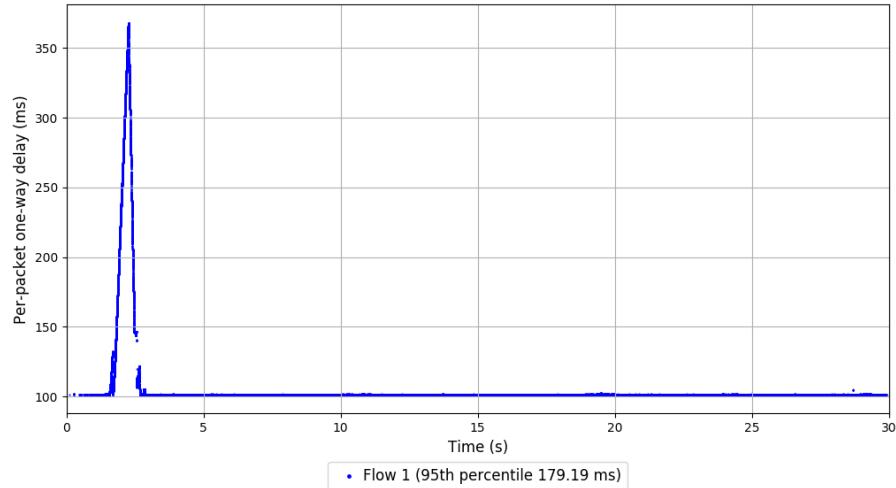
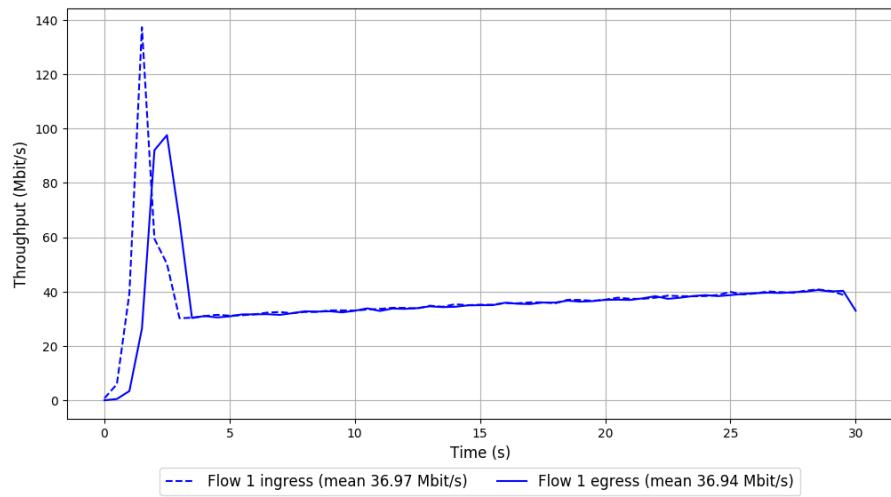


Run 3: Statistics of TCP Vegas

```
Start at: 2019-07-18 05:58:36
End at: 2019-07-18 05:59:06
Local clock offset: -6.144 ms
Remote clock offset: -9.923 ms

# Below is generated by plot.py at 2019-07-18 07:23:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.94 Mbit/s
95th percentile per-packet one-way delay: 179.193 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 36.94 Mbit/s
95th percentile per-packet one-way delay: 179.193 ms
Loss rate: 0.67%
```

Run 3: Report of TCP Vegas — Data Link

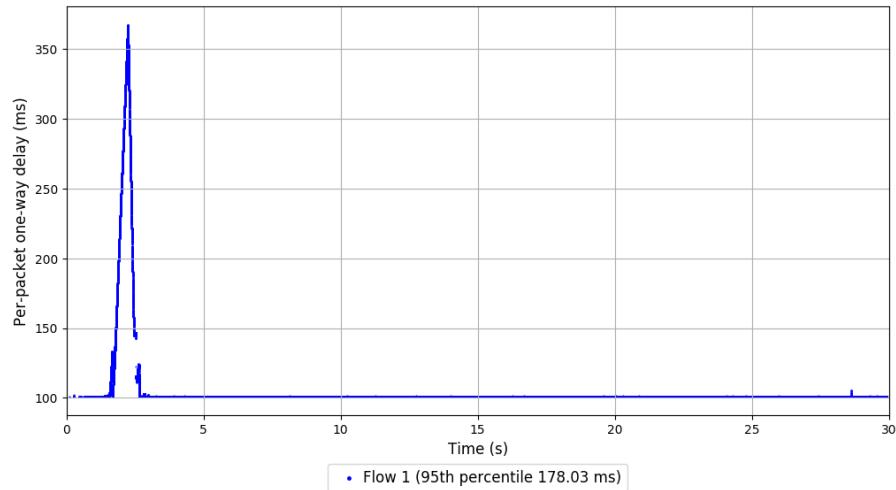
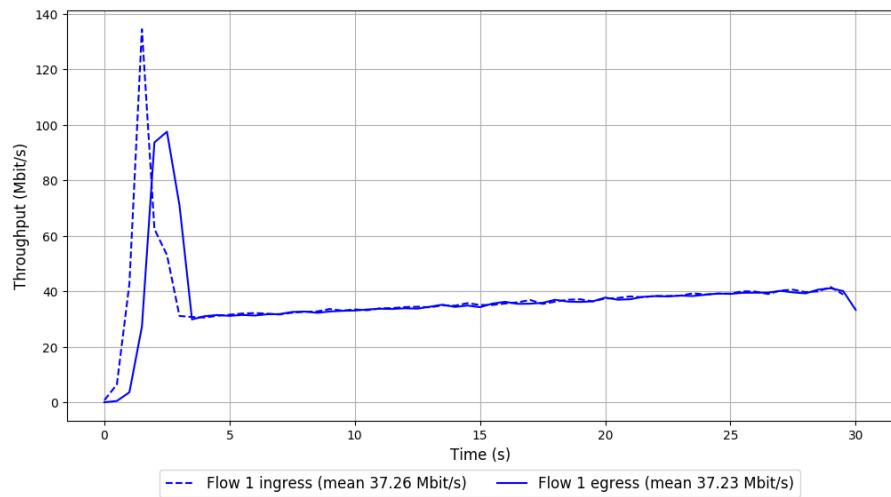


Run 4: Statistics of TCP Vegas

```
Start at: 2019-07-18 06:27:12
End at: 2019-07-18 06:27:42
Local clock offset: -7.609 ms
Remote clock offset: -9.389 ms

# Below is generated by plot.py at 2019-07-18 07:23:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.23 Mbit/s
95th percentile per-packet one-way delay: 178.029 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 37.23 Mbit/s
95th percentile per-packet one-way delay: 178.029 ms
Loss rate: 0.67%
```

Run 4: Report of TCP Vegas — Data Link

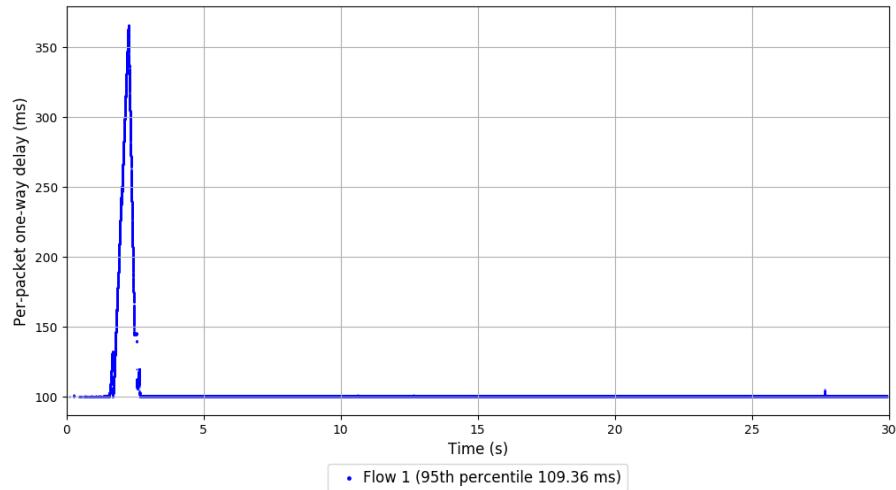
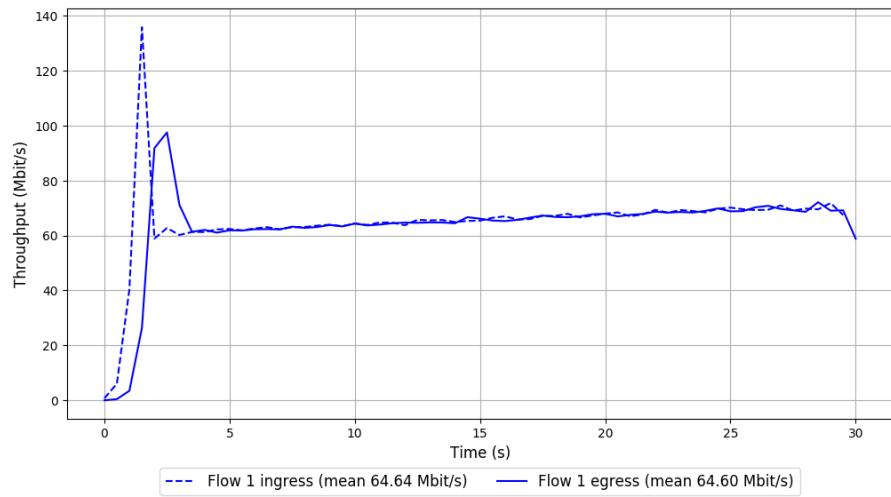


Run 5: Statistics of TCP Vegas

```
Start at: 2019-07-18 06:55:48
End at: 2019-07-18 06:56:18
Local clock offset: -5.56 ms
Remote clock offset: -4.293 ms

# Below is generated by plot.py at 2019-07-18 07:23:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.60 Mbit/s
95th percentile per-packet one-way delay: 109.363 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 64.60 Mbit/s
95th percentile per-packet one-way delay: 109.363 ms
Loss rate: 0.64%
```

Run 5: Report of TCP Vegas — Data Link

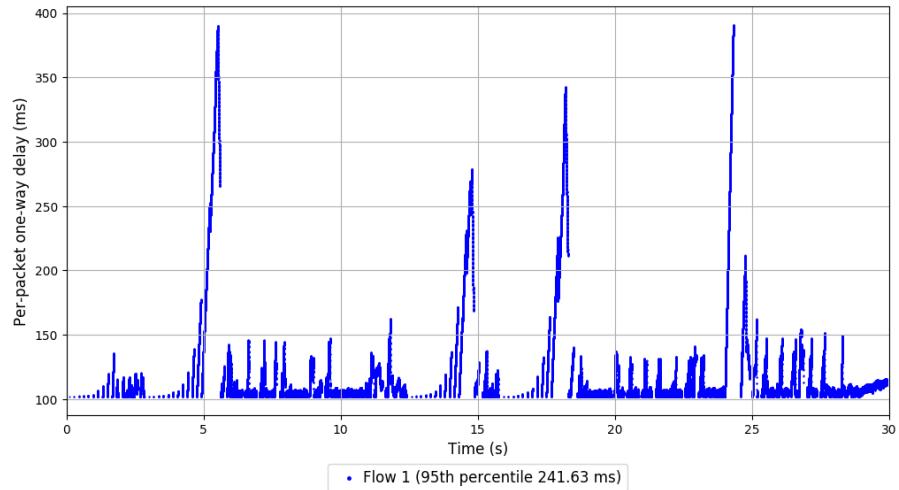
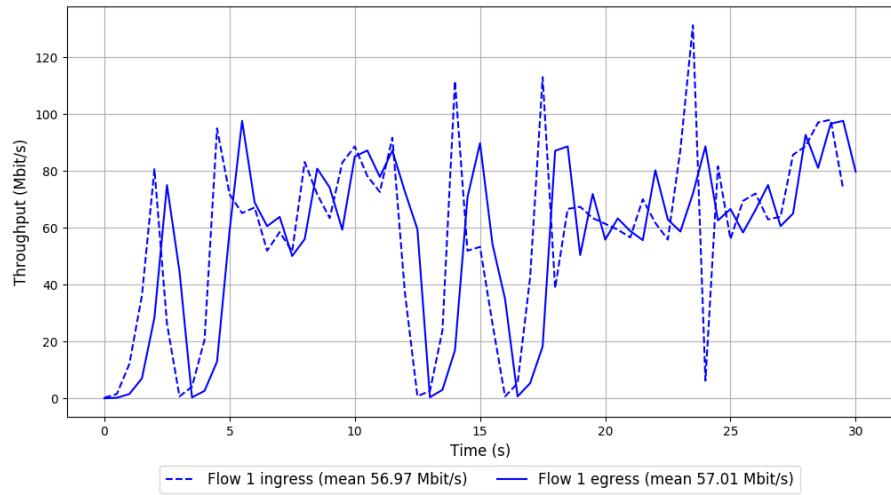


Run 1: Statistics of Verus

```
Start at: 2019-07-18 05:13:04
End at: 2019-07-18 05:13:34
Local clock offset: -6.93 ms
Remote clock offset: -9.036 ms

# Below is generated by plot.py at 2019-07-18 07:23:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.01 Mbit/s
95th percentile per-packet one-way delay: 241.631 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 57.01 Mbit/s
95th percentile per-packet one-way delay: 241.631 ms
Loss rate: 0.49%
```

Run 1: Report of Verus — Data Link

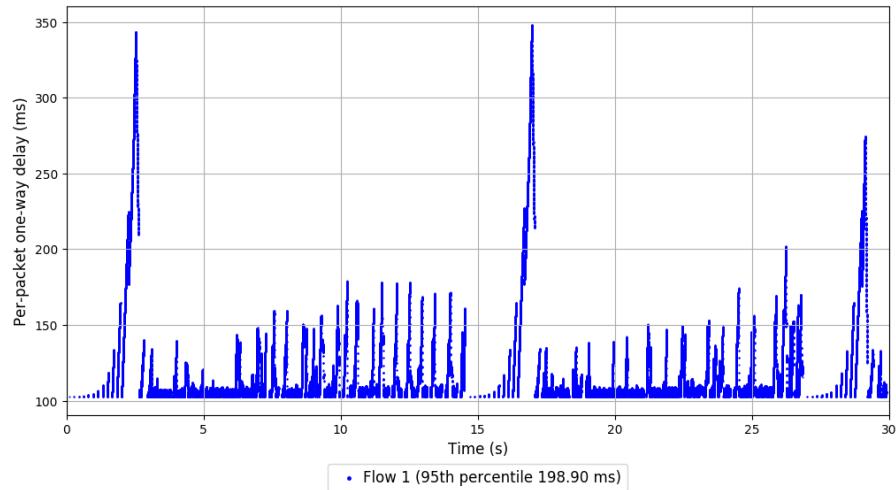
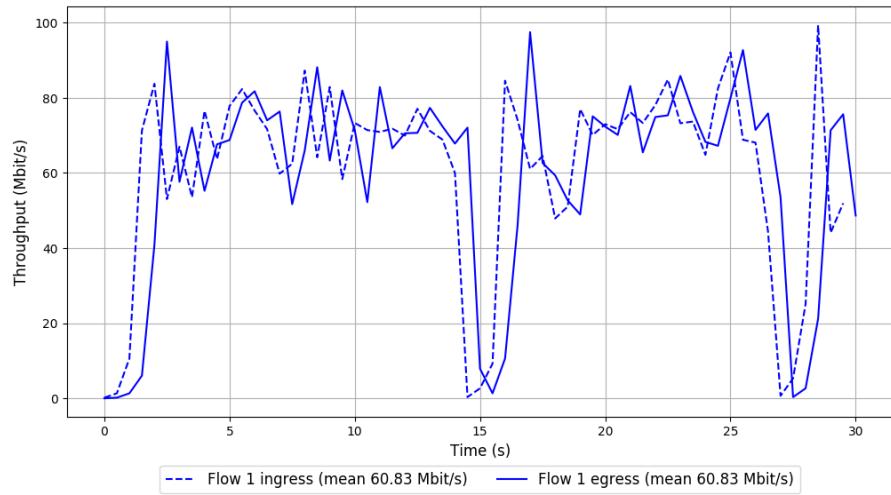


Run 2: Statistics of Verus

```
Start at: 2019-07-18 05:41:45
End at: 2019-07-18 05:42:15
Local clock offset: -5.78 ms
Remote clock offset: -10.854 ms

# Below is generated by plot.py at 2019-07-18 07:23:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.83 Mbit/s
95th percentile per-packet one-way delay: 198.901 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 60.83 Mbit/s
95th percentile per-packet one-way delay: 198.901 ms
Loss rate: 0.21%
```

Run 2: Report of Verus — Data Link

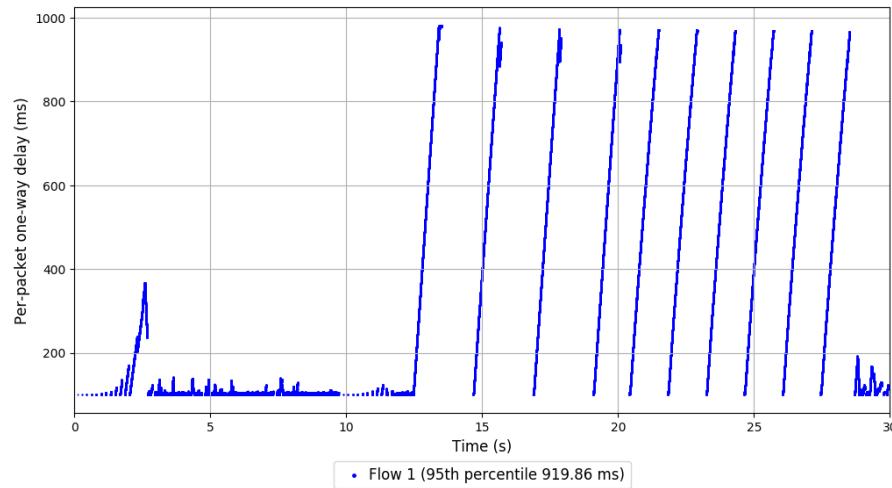
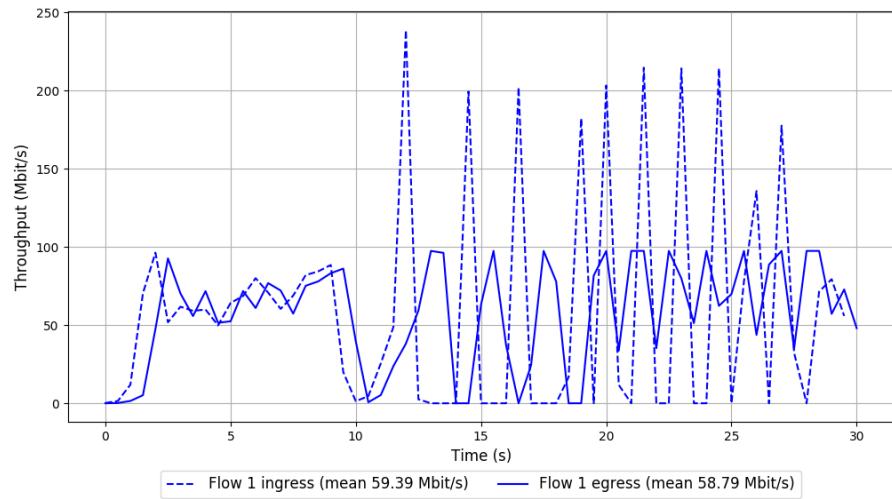


Run 3: Statistics of Verus

```
Start at: 2019-07-18 06:10:22
End at: 2019-07-18 06:10:52
Local clock offset: -6.809 ms
Remote clock offset: -8.315 ms

# Below is generated by plot.py at 2019-07-18 07:23:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.79 Mbit/s
95th percentile per-packet one-way delay: 919.857 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 58.79 Mbit/s
95th percentile per-packet one-way delay: 919.857 ms
Loss rate: 1.58%
```

Run 3: Report of Verus — Data Link

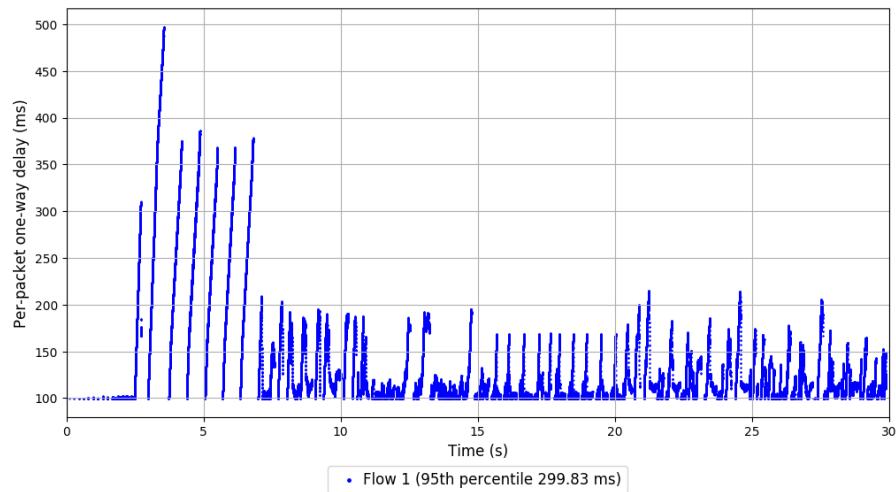
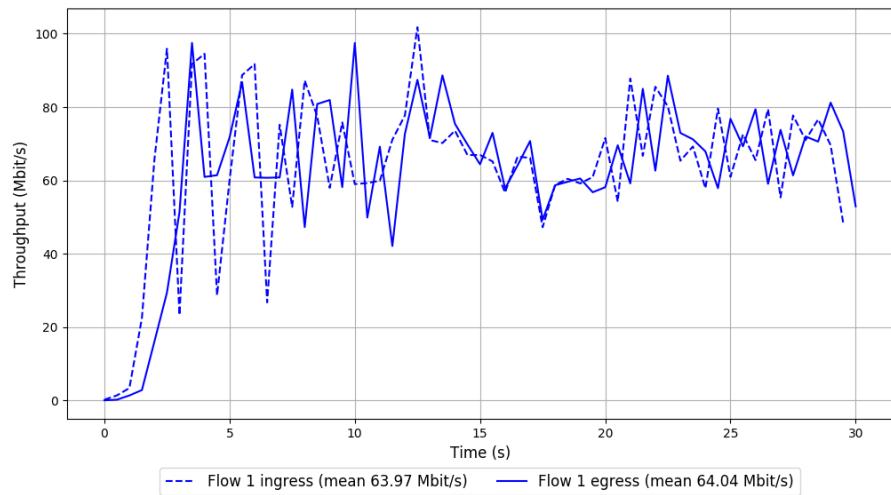


Run 4: Statistics of Verus

```
Start at: 2019-07-18 06:38:59
End at: 2019-07-18 06:39:29
Local clock offset: -7.065 ms
Remote clock offset: -6.77 ms

# Below is generated by plot.py at 2019-07-18 07:23:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.04 Mbit/s
95th percentile per-packet one-way delay: 299.829 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 64.04 Mbit/s
95th percentile per-packet one-way delay: 299.829 ms
Loss rate: 0.46%
```

Run 4: Report of Verus — Data Link

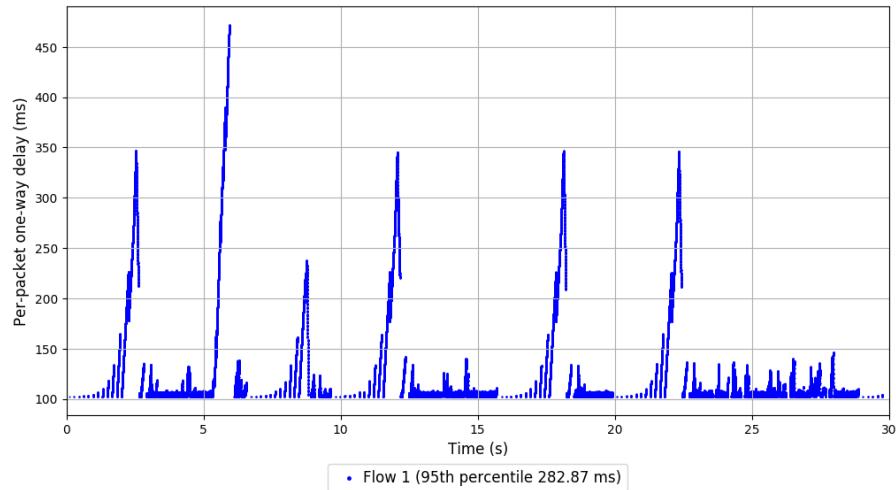
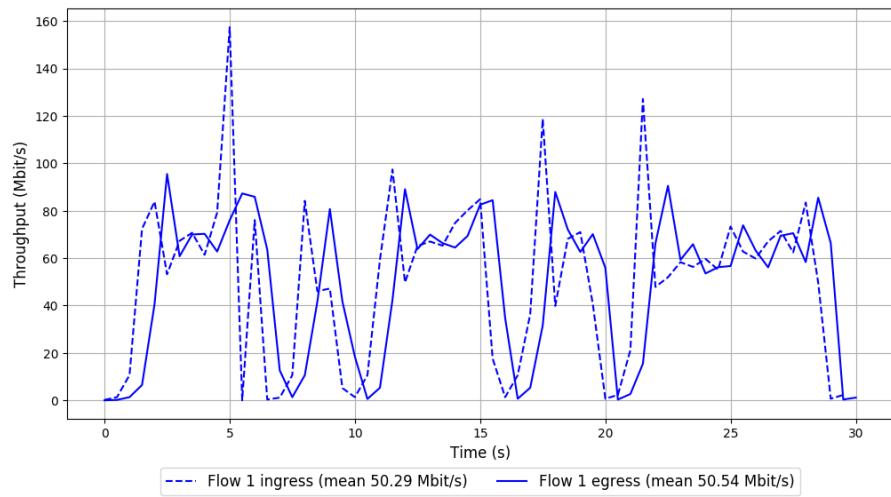


Run 5: Statistics of Verus

```
Start at: 2019-07-18 07:07:35
End at: 2019-07-18 07:08:05
Local clock offset: -3.741 ms
Remote clock offset: -7.089 ms

# Below is generated by plot.py at 2019-07-18 07:23:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.54 Mbit/s
95th percentile per-packet one-way delay: 282.874 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 50.54 Mbit/s
95th percentile per-packet one-way delay: 282.874 ms
Loss rate: 0.10%
```

Run 5: Report of Verus — Data Link

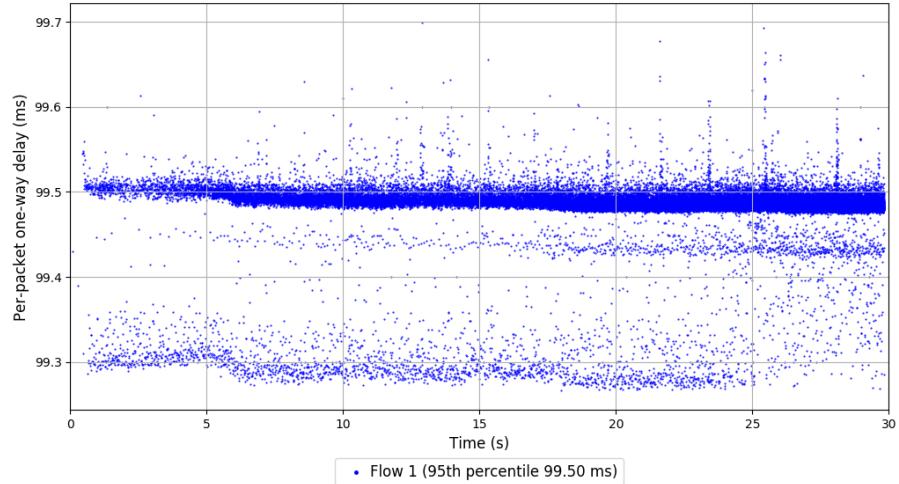
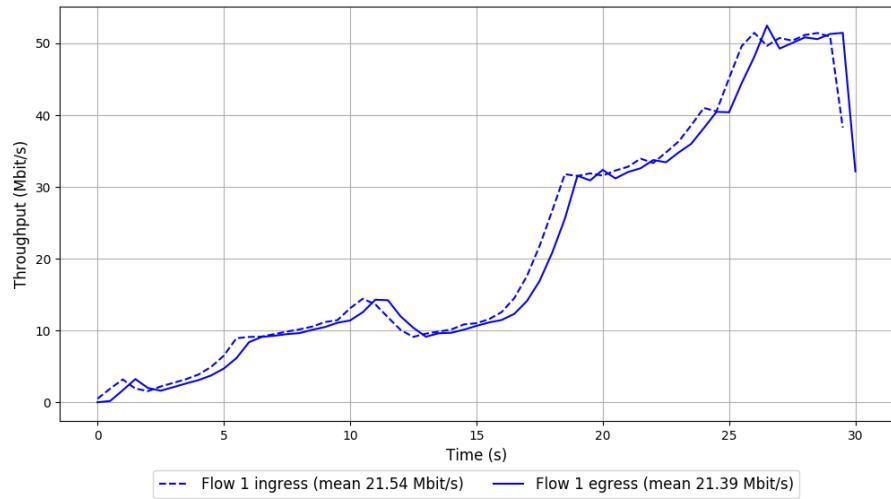


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-07-18 04:58:54
End at: 2019-07-18 04:59:24
Local clock offset: -7.235 ms
Remote clock offset: -7.473 ms

# Below is generated by plot.py at 2019-07-18 07:23:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.39 Mbit/s
95th percentile per-packet one-way delay: 99.503 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 21.39 Mbit/s
95th percentile per-packet one-way delay: 99.503 ms
Loss rate: 1.27%
```

Run 1: Report of PCC-Vivace — Data Link

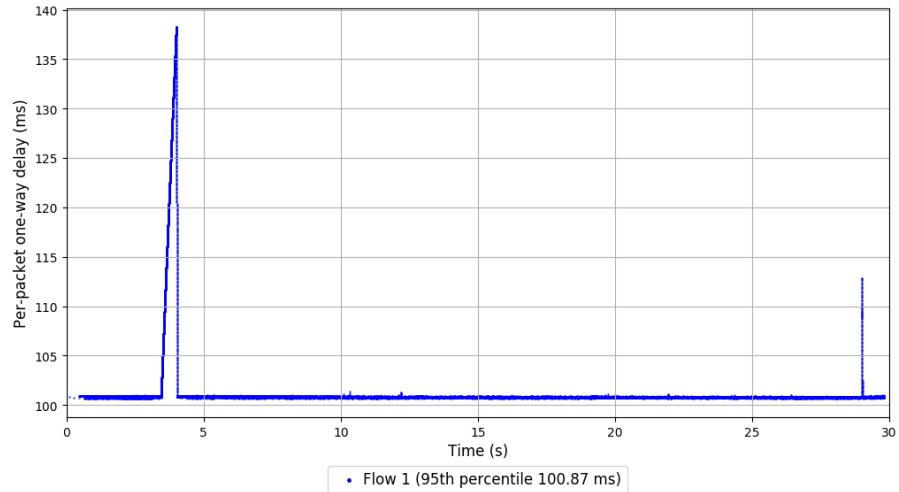
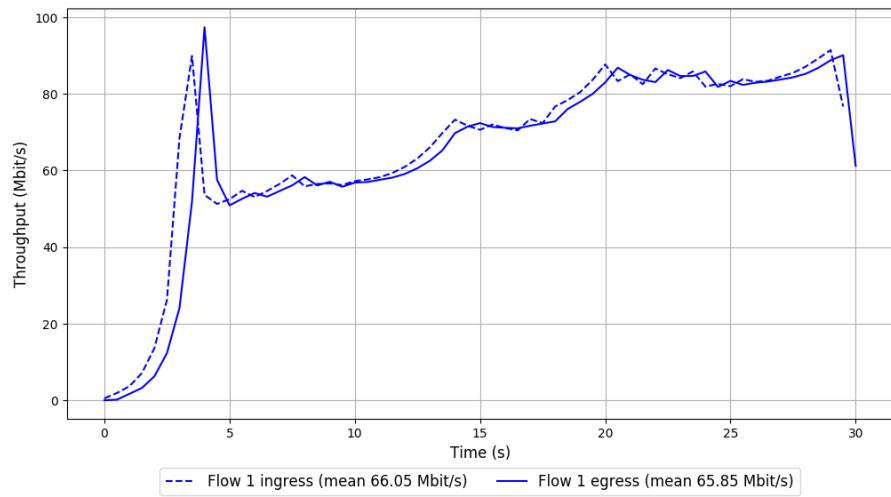


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-07-18 05:27:28
End at: 2019-07-18 05:27:58
Local clock offset: -6.078 ms
Remote clock offset: -7.765 ms

# Below is generated by plot.py at 2019-07-18 07:23:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.85 Mbit/s
95th percentile per-packet one-way delay: 100.869 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 65.85 Mbit/s
95th percentile per-packet one-way delay: 100.869 ms
Loss rate: 0.89%
```

Run 2: Report of PCC-Vivace — Data Link

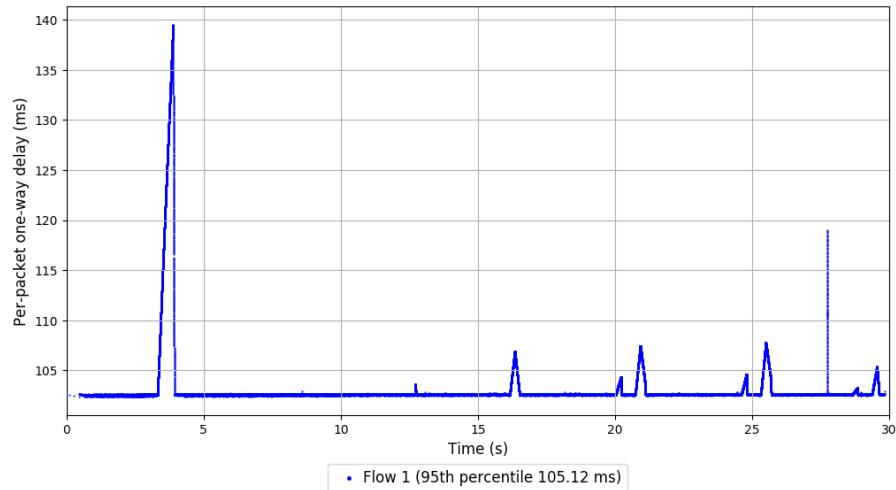
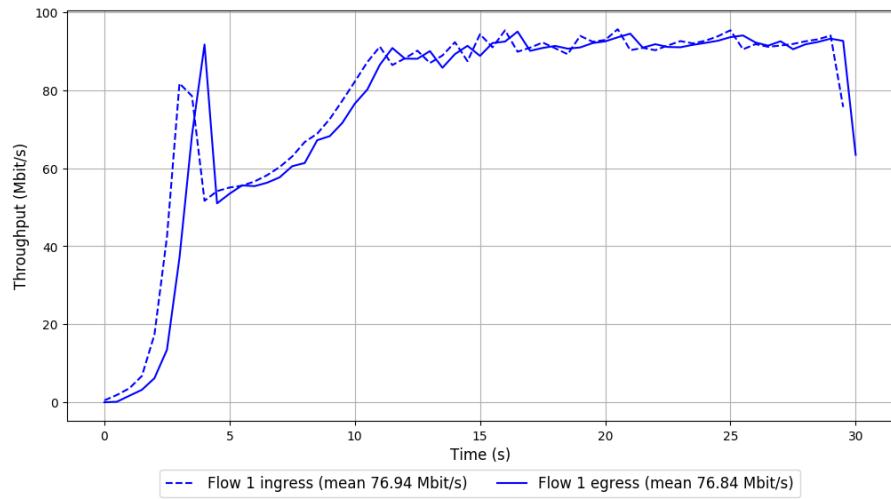


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-07-18 05:56:08
End at: 2019-07-18 05:56:38
Local clock offset: -6.811 ms
Remote clock offset: -11.666 ms

# Below is generated by plot.py at 2019-07-18 07:24:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.84 Mbit/s
95th percentile per-packet one-way delay: 105.116 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 76.84 Mbit/s
95th percentile per-packet one-way delay: 105.116 ms
Loss rate: 0.71%
```

Run 3: Report of PCC-Vivace — Data Link

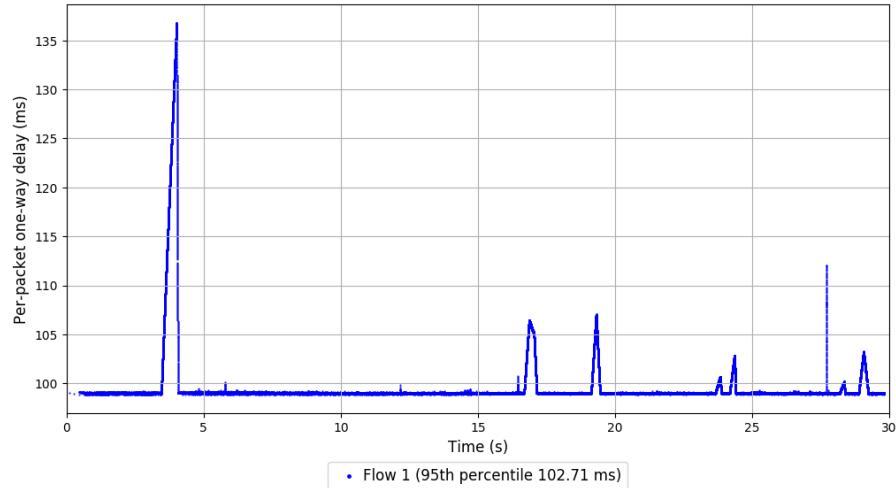
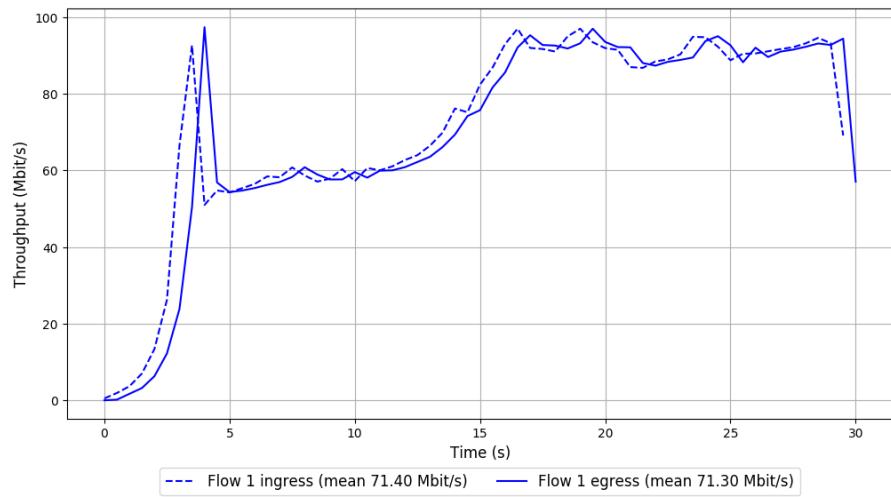


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-07-18 06:24:45
End at: 2019-07-18 06:25:15
Local clock offset: -7.922 ms
Remote clock offset: -7.631 ms

# Below is generated by plot.py at 2019-07-18 07:24:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.30 Mbit/s
95th percentile per-packet one-way delay: 102.710 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 71.30 Mbit/s
95th percentile per-packet one-way delay: 102.710 ms
Loss rate: 0.73%
```

Run 4: Report of PCC-Vivace — Data Link

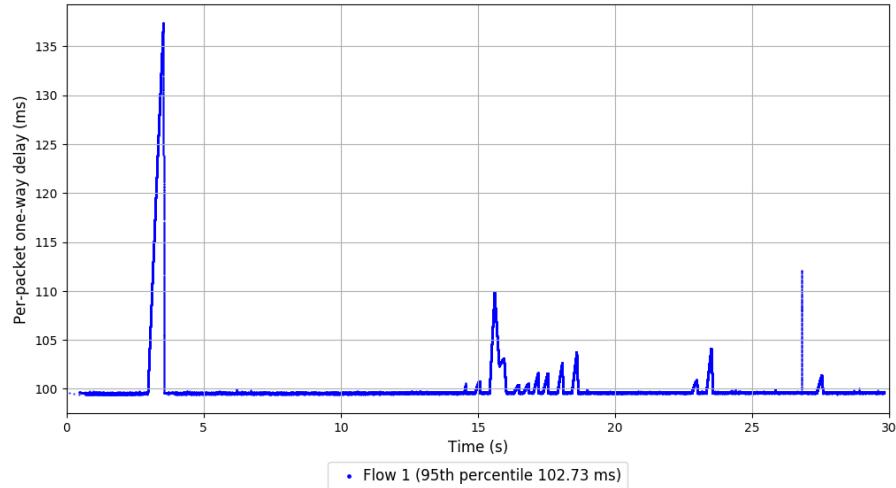
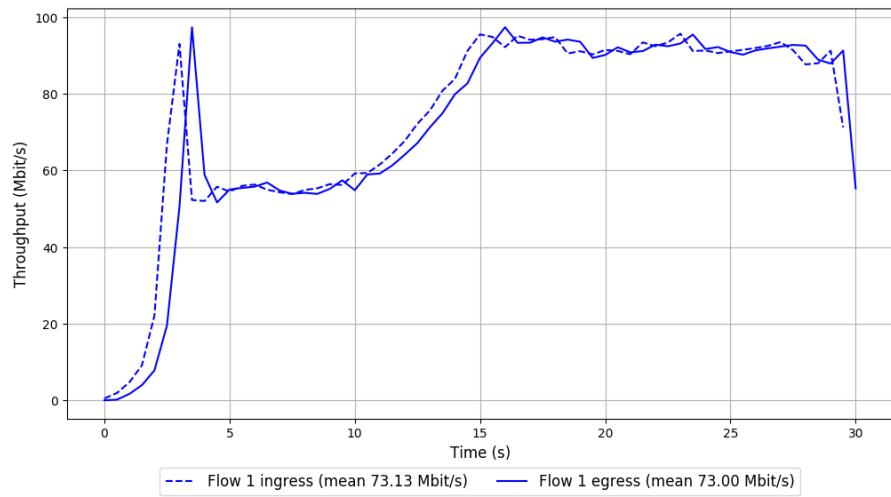


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-07-18 06:53:21
End at: 2019-07-18 06:53:51
Local clock offset: -5.858 ms
Remote clock offset: -4.488 ms

# Below is generated by plot.py at 2019-07-18 07:24:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.00 Mbit/s
95th percentile per-packet one-way delay: 102.731 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 73.00 Mbit/s
95th percentile per-packet one-way delay: 102.731 ms
Loss rate: 0.76%
```

Run 5: Report of PCC-Vivace — Data Link

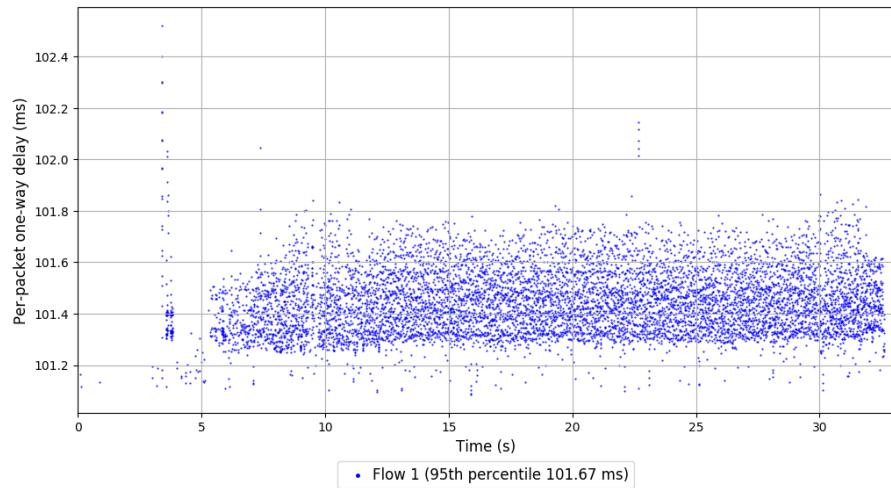
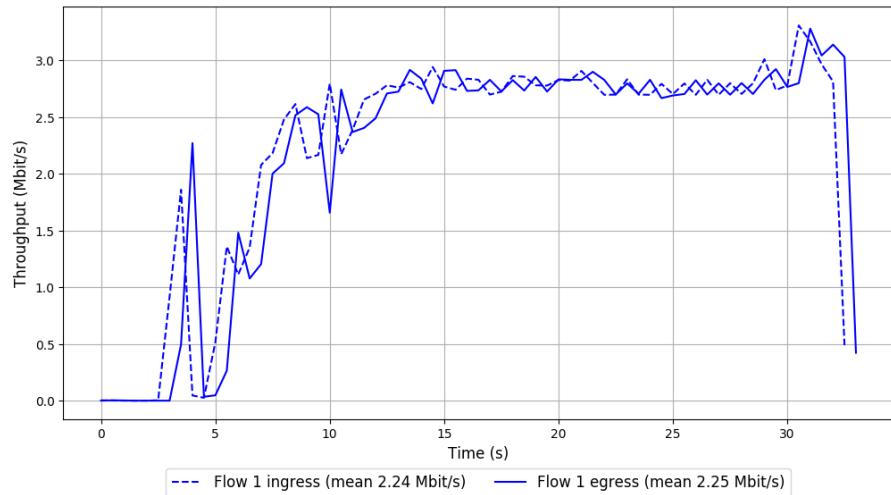


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-07-18 05:05:59
End at: 2019-07-18 05:06:29
Local clock offset: -6.048 ms
Remote clock offset: -8.603 ms

# Below is generated by plot.py at 2019-07-18 07:24:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 101.672 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 101.672 ms
Loss rate: 0.30%
```

Run 1: Report of WebRTC media — Data Link

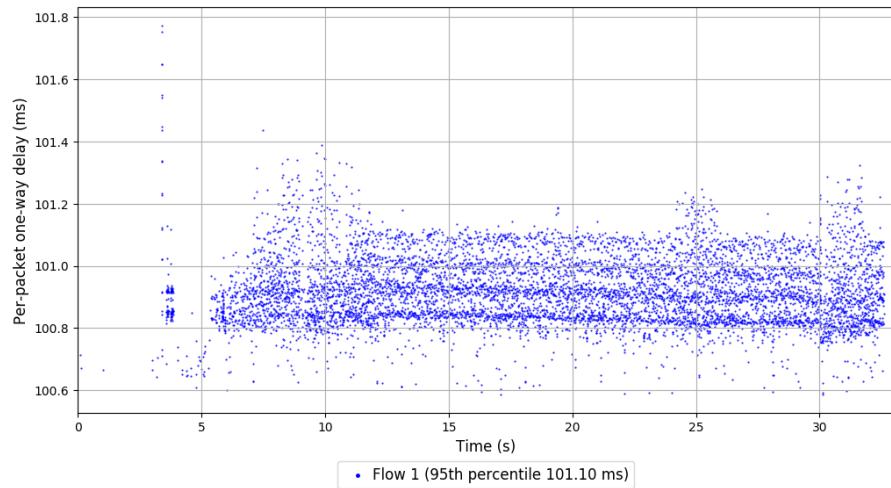
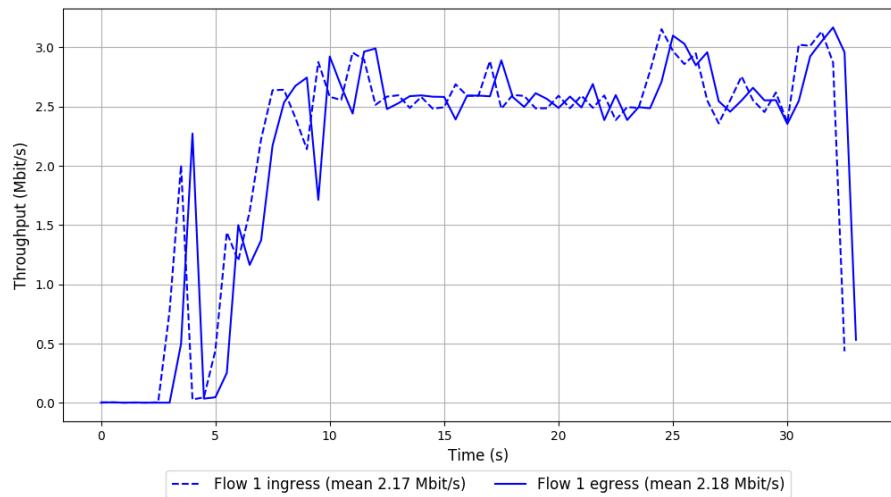


Run 2: Statistics of WebRTC media

```
Start at: 2019-07-18 05:34:37
End at: 2019-07-18 05:35:07
Local clock offset: -5.834 ms
Remote clock offset: -8.668 ms

# Below is generated by plot.py at 2019-07-18 07:24:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 101.102 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 101.102 ms
Loss rate: 0.29%
```

Run 2: Report of WebRTC media — Data Link

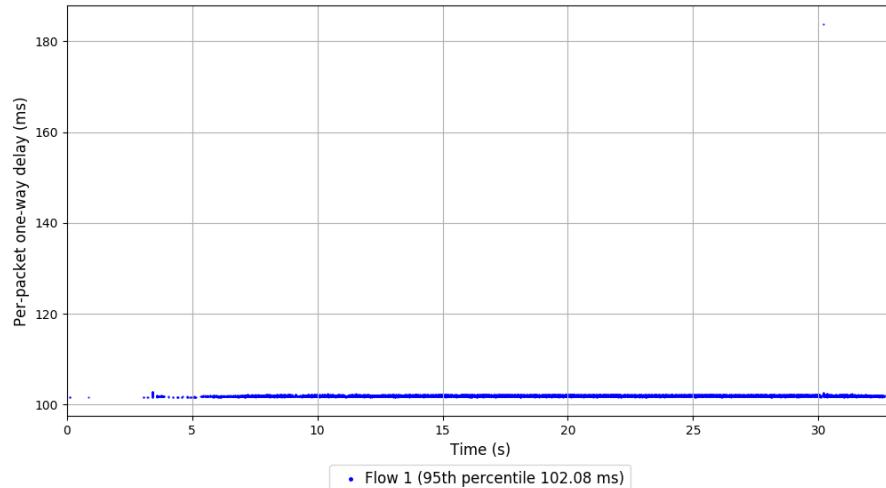
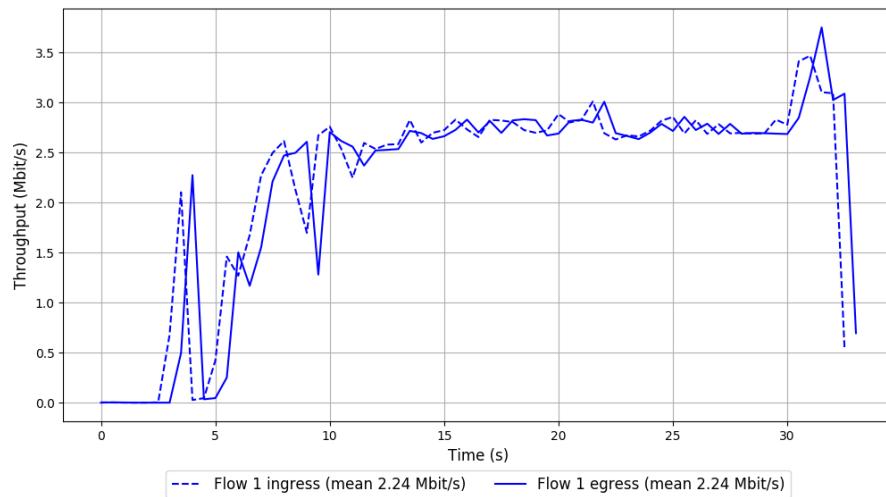


Run 3: Statistics of WebRTC media

```
Start at: 2019-07-18 06:03:16
End at: 2019-07-18 06:03:46
Local clock offset: -6.441 ms
Remote clock offset: -9.756 ms

# Below is generated by plot.py at 2019-07-18 07:24:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 102.083 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 102.083 ms
Loss rate: 0.32%
```

Run 3: Report of WebRTC media — Data Link

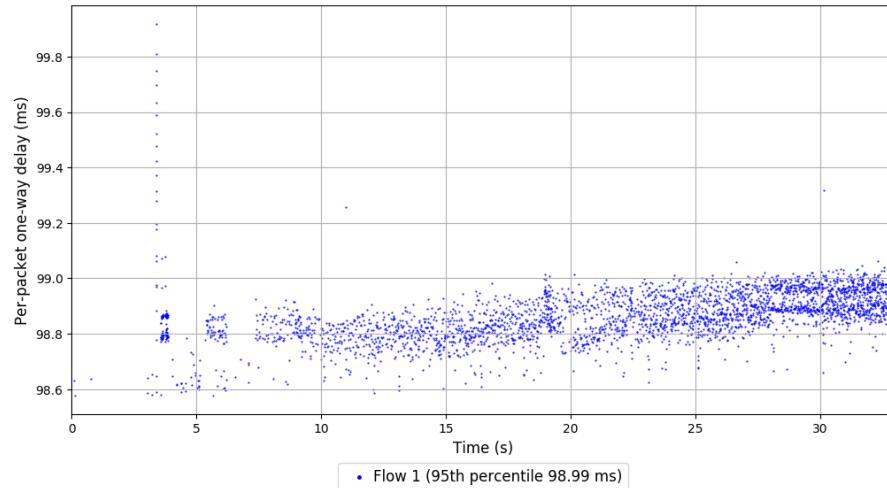
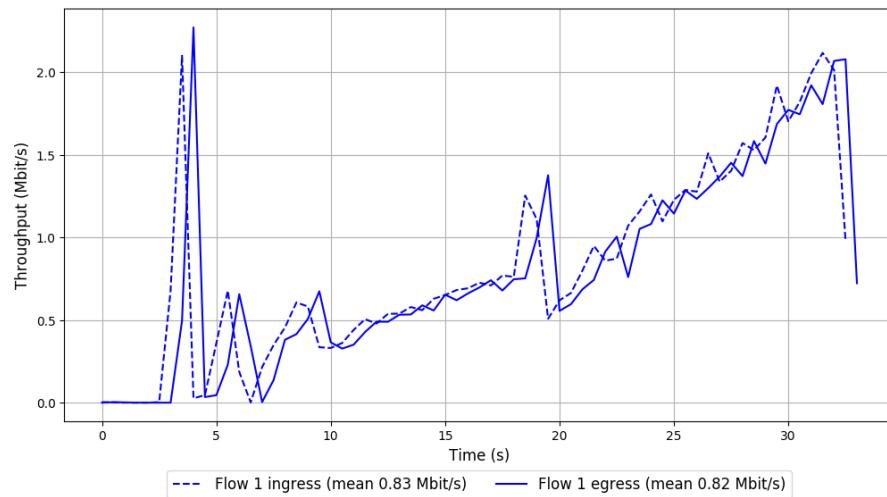


Run 4: Statistics of WebRTC media

```
Start at: 2019-07-18 06:31:53
End at: 2019-07-18 06:32:23
Local clock offset: -7.178 ms
Remote clock offset: -7.468 ms

# Below is generated by plot.py at 2019-07-18 07:24:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 98.987 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 98.987 ms
Loss rate: 1.31%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-07-18 07:00:30
End at: 2019-07-18 07:01:00
Local clock offset: -5.49 ms
Remote clock offset: -4.278 ms

# Below is generated by plot.py at 2019-07-18 07:24:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 99.047 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 99.047 ms
Loss rate: 0.79%
```

Run 5: Report of WebRTC media — Data Link

