

Pantheon Report

Generated at 2019-03-19 10:54:27 (UTC).
Data path: Colombia on p4p1 (*remote*) → AWS Brazil 2 on ens5 (*local*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

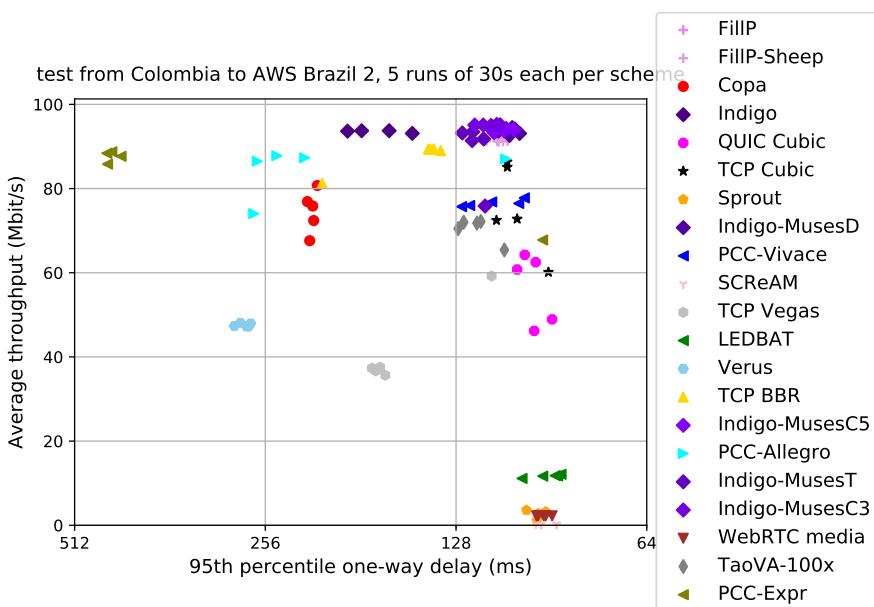
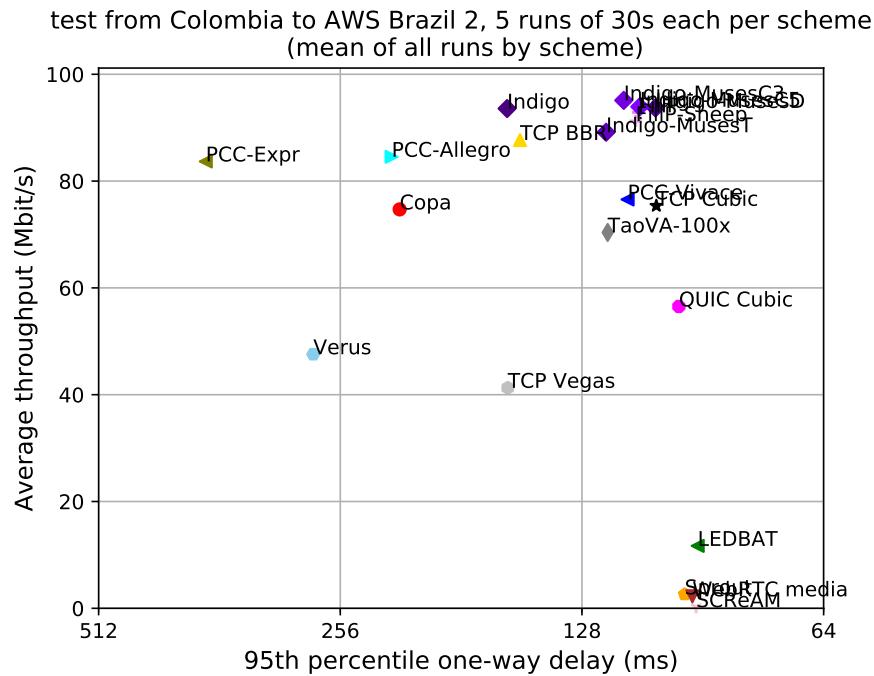
System info:

```
Linux 4.15.0-1033-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 @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851



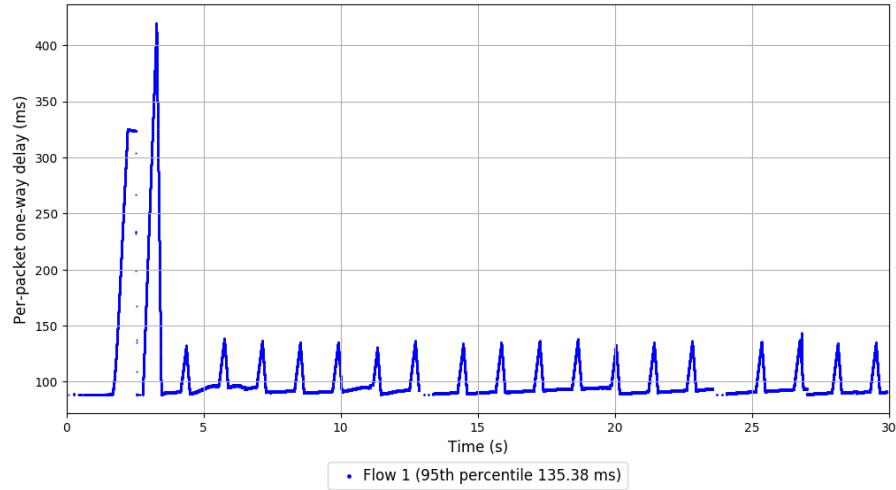
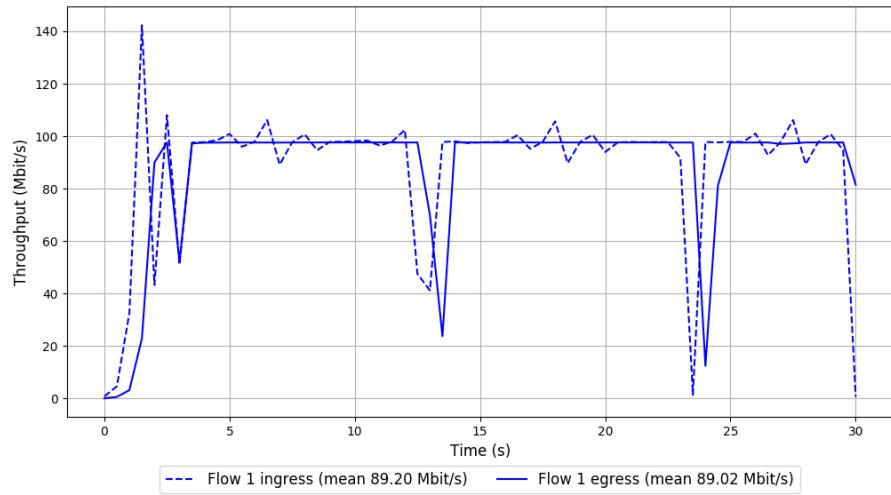
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	87.69	152.88	1.52
Copa	5	74.70	215.93	4.79
TCP Cubic	5	75.37	103.42	0.75
FillP	5	92.88	108.94	0.65
FillP-Sheep	5	91.23	109.72	0.71
Indigo	5	93.58	158.65	2.05
Indigo-MusesC3	5	95.11	113.54	6.32
Indigo-MusesC5	5	93.93	108.43	3.99
Indigo-MusesD	5	93.70	103.67	0.82
Indigo-MusesT	5	89.14	119.44	9.74
LEDBAT	5	11.69	91.86	1.17
PCC-Allegro	5	84.54	220.94	1.26
PCC-Expr	5	83.68	376.56	1.53
QUIC Cubic	5	56.53	96.93	1.09
SCReAM	5	0.22	92.25	0.61
Sprout	5	2.62	95.34	0.88
TaoVA-100x	5	70.38	118.90	2.01
TCP Vegas	5	41.29	158.36	0.74
Verus	5	47.58	276.64	1.36
PCC-Vivace	5	76.56	112.31	0.80
WebRTC media	5	2.24	93.26	0.29

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-19 08:40:47
End at: 2019-03-19 08:41:17
Local clock offset: -7.739 ms
Remote clock offset: 9.809 ms

# Below is generated by plot.py at 2019-03-19 10:43:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.02 Mbit/s
95th percentile per-packet one-way delay: 135.376 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 89.02 Mbit/s
95th percentile per-packet one-way delay: 135.376 ms
Loss rate: 0.78%
```

Run 1: Report of TCP BBR — Data Link

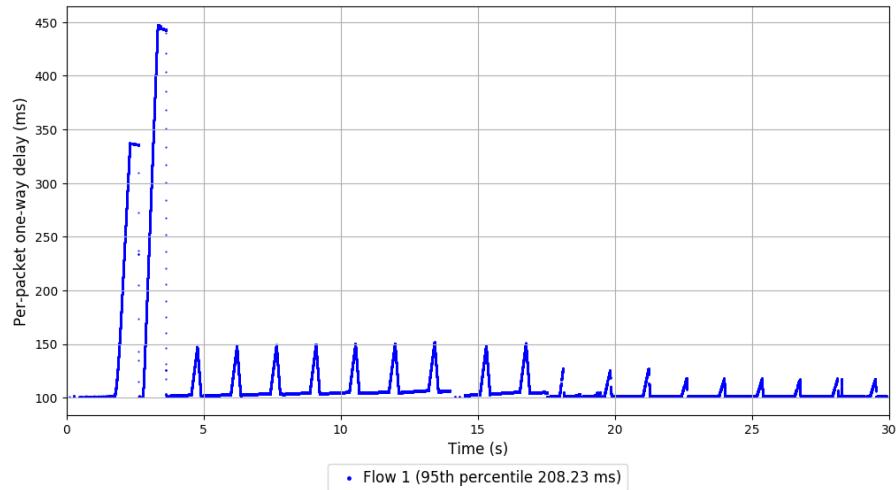
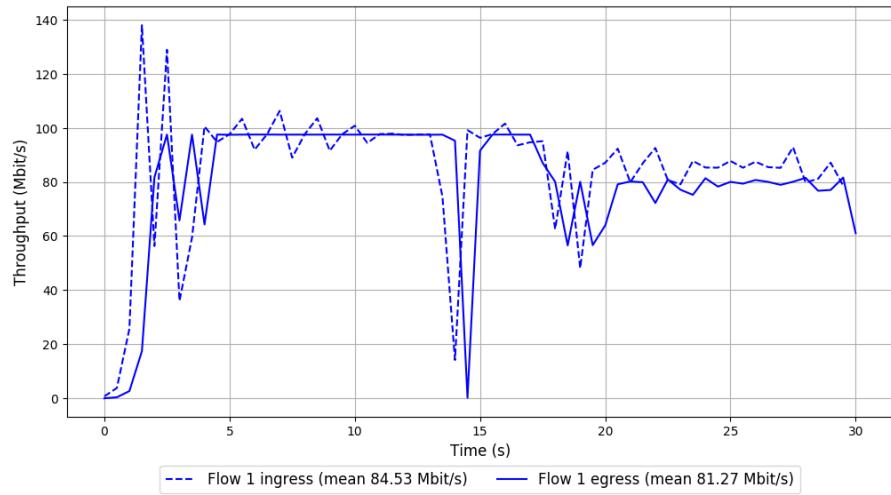


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-19 09:05:48
End at: 2019-03-19 09:06:18
Local clock offset: -8.209 ms
Remote clock offset: 3.282 ms

# Below is generated by plot.py at 2019-03-19 10:43:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.27 Mbit/s
95th percentile per-packet one-way delay: 208.227 ms
Loss rate: 4.39%
-- Flow 1:
Average throughput: 81.27 Mbit/s
95th percentile per-packet one-way delay: 208.227 ms
Loss rate: 4.39%
```

Run 2: Report of TCP BBR — Data Link

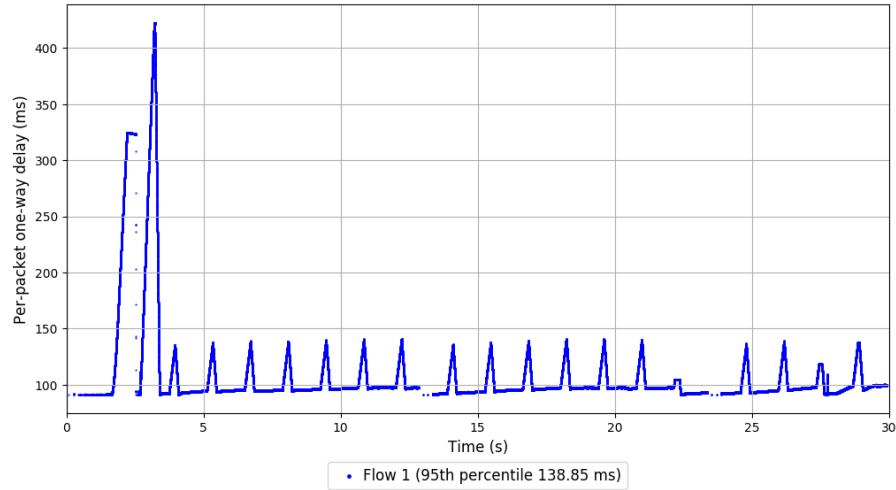
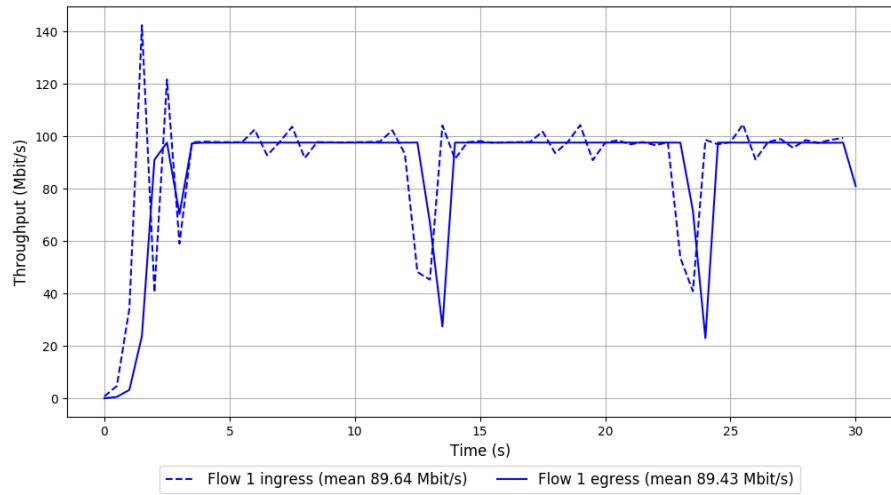


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-19 09:30:50
End at: 2019-03-19 09:31:20
Local clock offset: -7.197 ms
Remote clock offset: 2.571 ms

# Below is generated by plot.py at 2019-03-19 10:43:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.43 Mbit/s
95th percentile per-packet one-way delay: 138.851 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 89.43 Mbit/s
95th percentile per-packet one-way delay: 138.851 ms
Loss rate: 0.81%
```

Run 3: Report of TCP BBR — Data Link

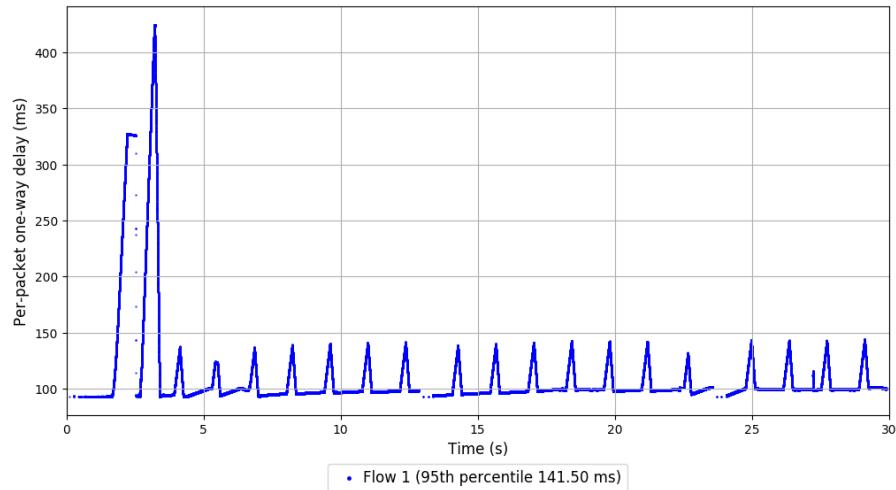
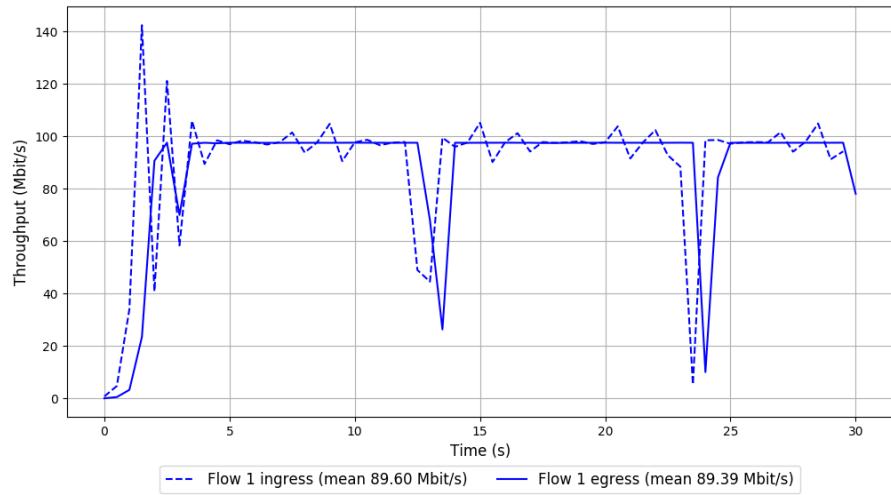


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-19 09:55:52
End at: 2019-03-19 09:56:22
Local clock offset: -7.776 ms
Remote clock offset: 0.795 ms

# Below is generated by plot.py at 2019-03-19 10:43:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.39 Mbit/s
95th percentile per-packet one-way delay: 141.503 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 89.39 Mbit/s
95th percentile per-packet one-way delay: 141.503 ms
Loss rate: 0.82%
```

Run 4: Report of TCP BBR — Data Link

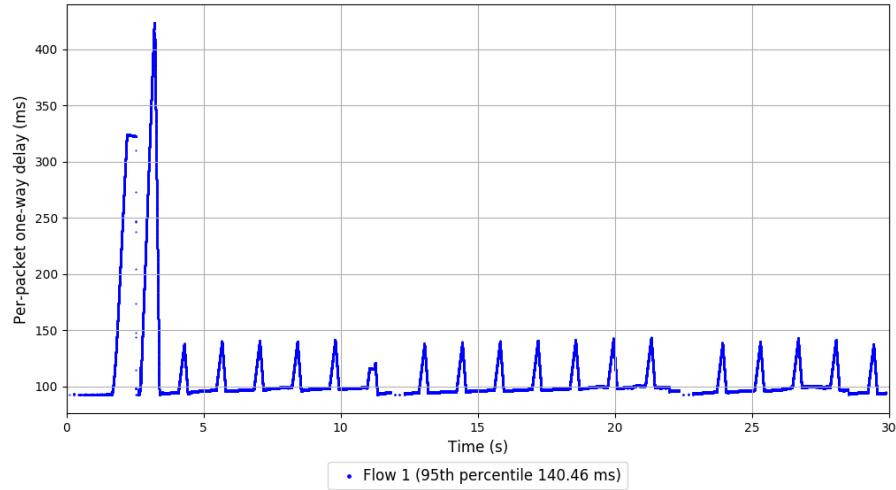
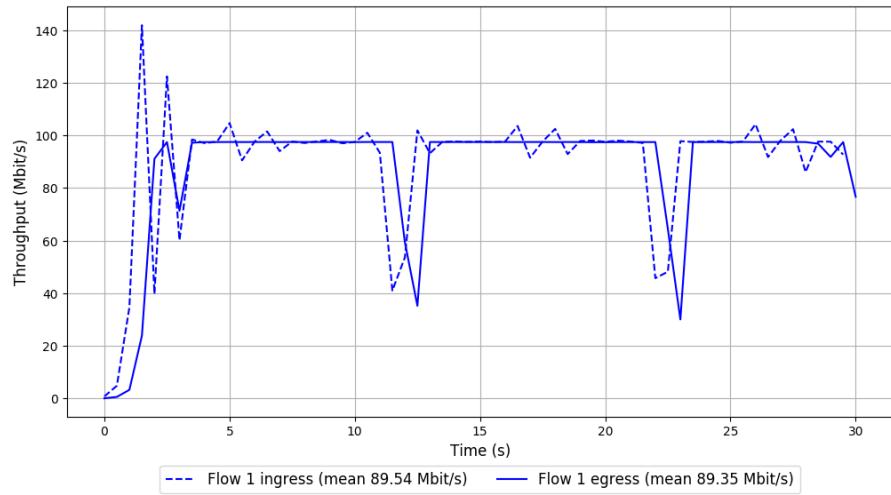


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-19 10:20:52
End at: 2019-03-19 10:21:22
Local clock offset: -7.414 ms
Remote clock offset: 0.745 ms

# Below is generated by plot.py at 2019-03-19 10:43:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.35 Mbit/s
95th percentile per-packet one-way delay: 140.461 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 89.35 Mbit/s
95th percentile per-packet one-way delay: 140.461 ms
Loss rate: 0.79%
```

Run 5: Report of TCP BBR — Data Link

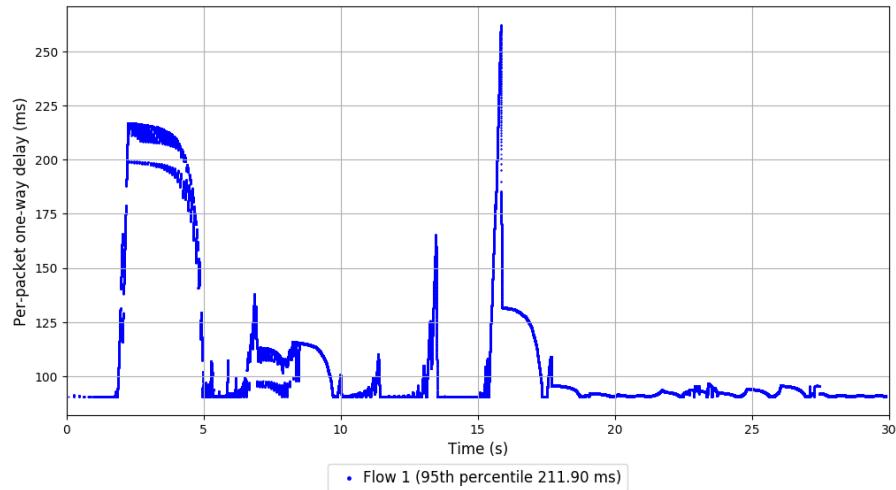
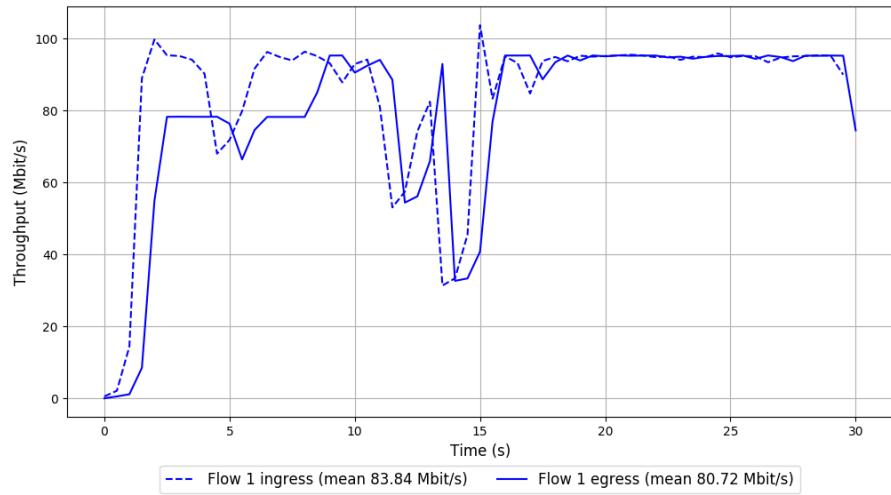


Run 1: Statistics of Copa

```
Start at: 2019-03-19 08:52:40
End at: 2019-03-19 08:53:10
Local clock offset: -8.705 ms
Remote clock offset: 8.08 ms

# Below is generated by plot.py at 2019-03-19 10:44:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.72 Mbit/s
95th percentile per-packet one-way delay: 211.897 ms
Loss rate: 4.27%
-- Flow 1:
Average throughput: 80.72 Mbit/s
95th percentile per-packet one-way delay: 211.897 ms
Loss rate: 4.27%
```

Run 1: Report of Copa — Data Link

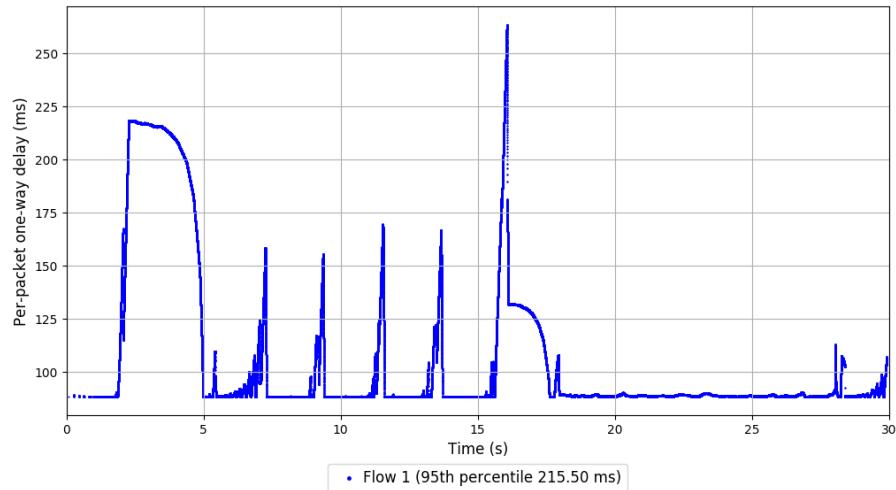
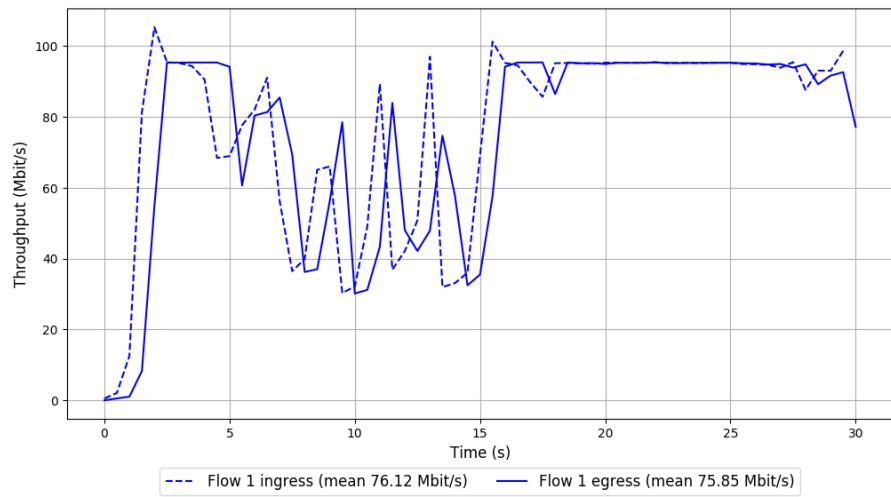


Run 2: Statistics of Copa

```
Start at: 2019-03-19 09:17:46
End at: 2019-03-19 09:18:16
Local clock offset: -8.257 ms
Remote clock offset: 6.401 ms

# Below is generated by plot.py at 2019-03-19 10:44:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.85 Mbit/s
95th percentile per-packet one-way delay: 215.502 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 75.85 Mbit/s
95th percentile per-packet one-way delay: 215.502 ms
Loss rate: 0.94%
```

Run 2: Report of Copa — Data Link

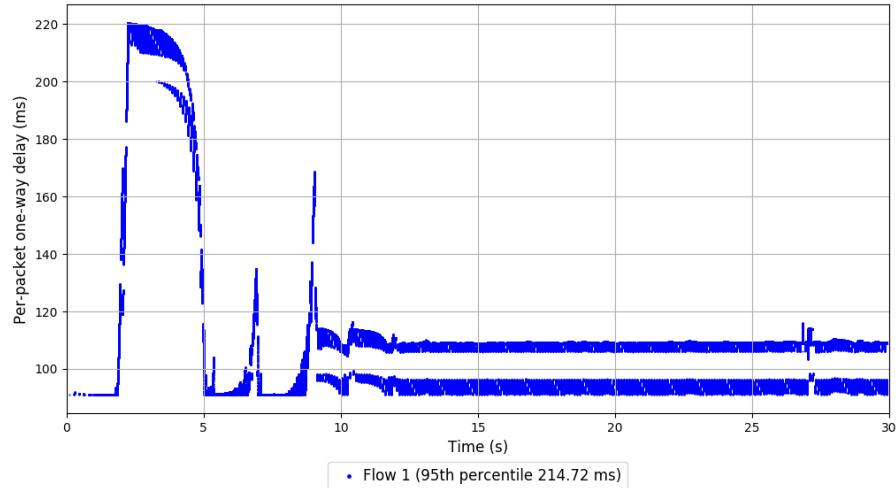
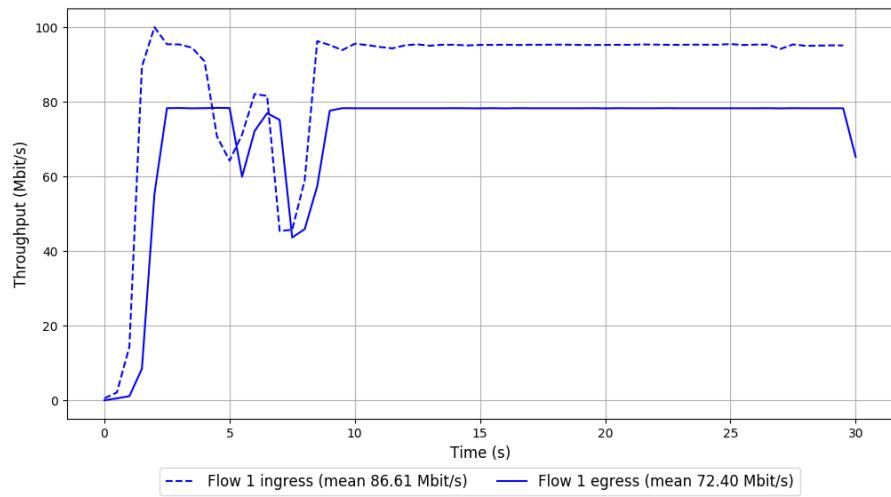


Run 3: Statistics of Copa

```
Start at: 2019-03-19 09:42:44
End at: 2019-03-19 09:43:14
Local clock offset: -7.135 ms
Remote clock offset: 2.958 ms

# Below is generated by plot.py at 2019-03-19 10:44:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.40 Mbit/s
95th percentile per-packet one-way delay: 214.720 ms
Loss rate: 16.88%
-- Flow 1:
Average throughput: 72.40 Mbit/s
95th percentile per-packet one-way delay: 214.720 ms
Loss rate: 16.88%
```

Run 3: Report of Copa — Data Link

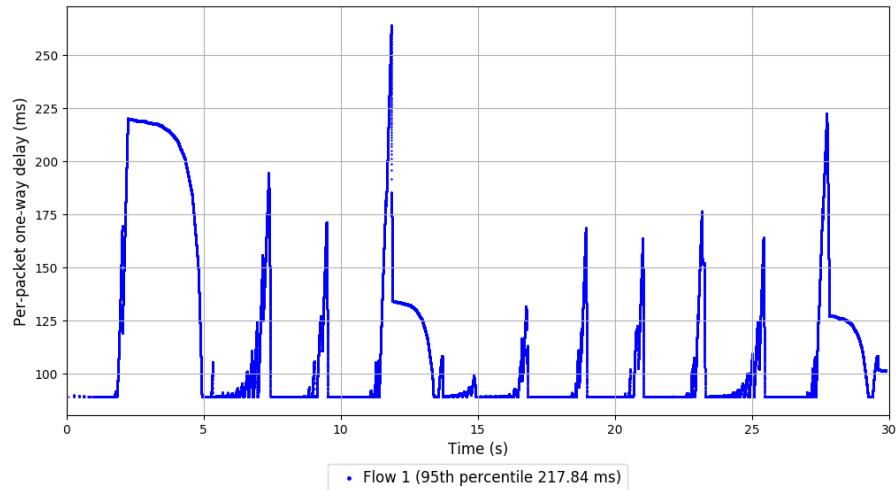
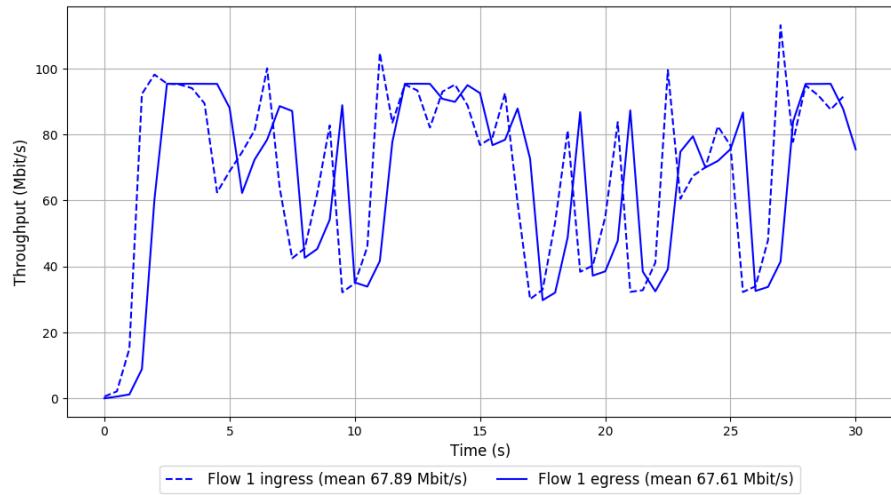


Run 4: Statistics of Copa

```
Start at: 2019-03-19 10:07:48
End at: 2019-03-19 10:08:18
Local clock offset: -7.049 ms
Remote clock offset: 4.689 ms

# Below is generated by plot.py at 2019-03-19 10:44:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.61 Mbit/s
95th percentile per-packet one-way delay: 217.841 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 67.61 Mbit/s
95th percentile per-packet one-way delay: 217.841 ms
Loss rate: 0.98%
```

Run 4: Report of Copa — Data Link

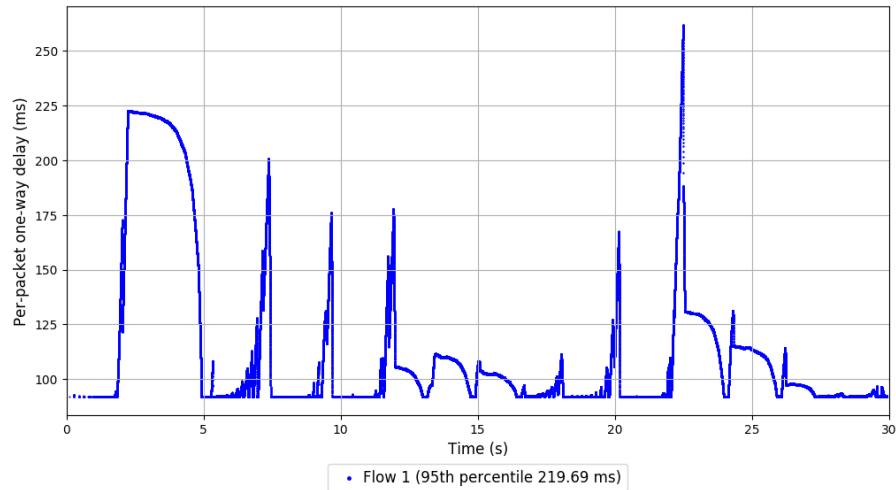
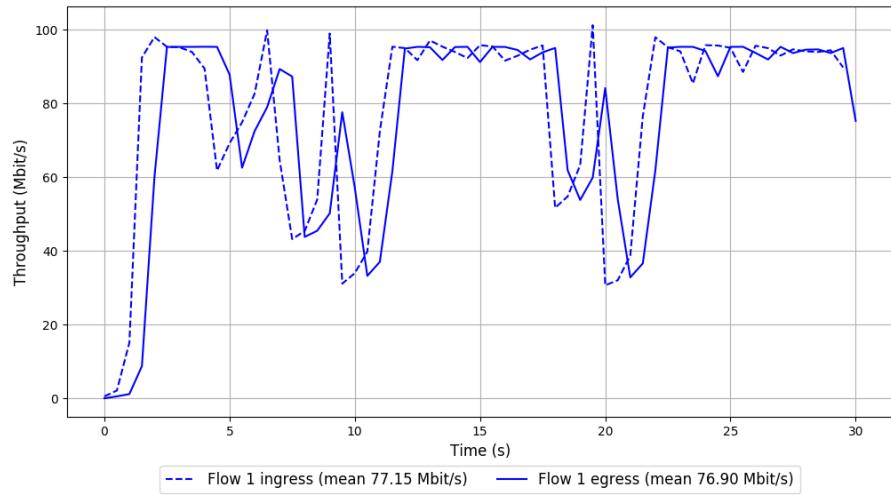


Run 5: Statistics of Copa

```
Start at: 2019-03-19 10:32:45
End at: 2019-03-19 10:33:15
Local clock offset: -6.973 ms
Remote clock offset: 0.689 ms

# Below is generated by plot.py at 2019-03-19 10:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.90 Mbit/s
95th percentile per-packet one-way delay: 219.689 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 76.90 Mbit/s
95th percentile per-packet one-way delay: 219.689 ms
Loss rate: 0.88%
```

Run 5: Report of Copa — Data Link

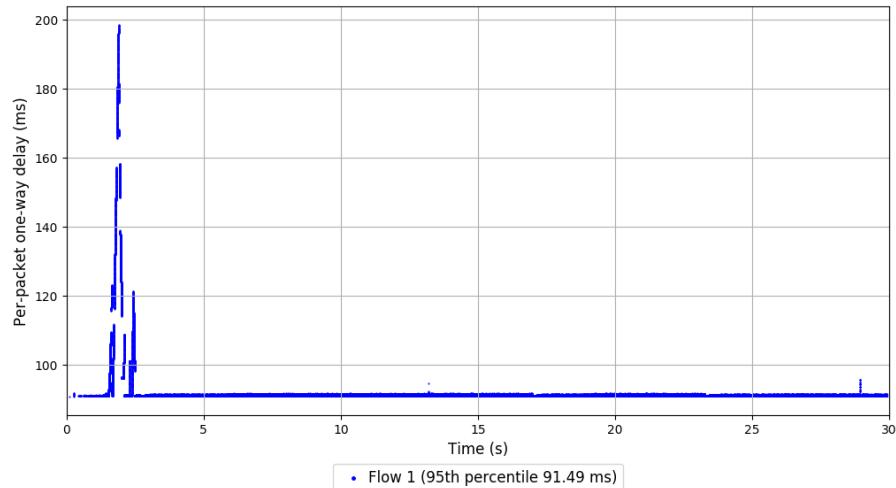
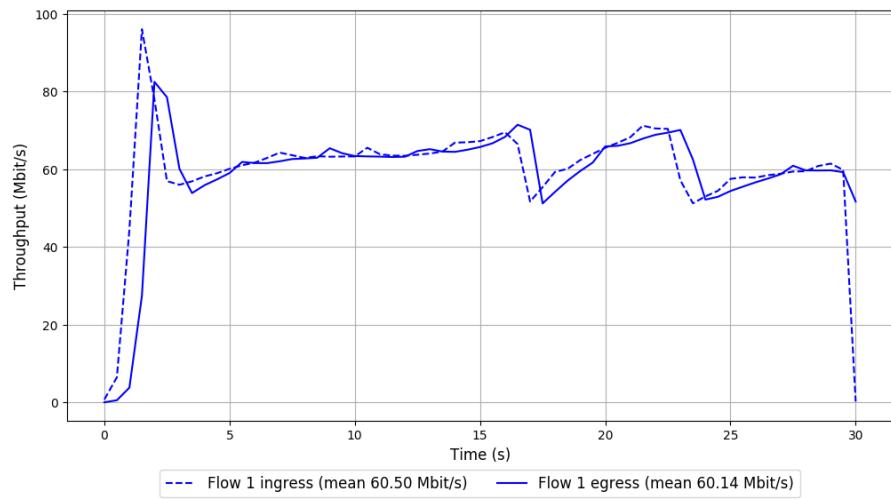


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-03-19 08:50:14
End at: 2019-03-19 08:50:44
Local clock offset: -7.985 ms
Remote clock offset: 8.231 ms

# Below is generated by plot.py at 2019-03-19 10:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.14 Mbit/s
95th percentile per-packet one-way delay: 91.493 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 60.14 Mbit/s
95th percentile per-packet one-way delay: 91.493 ms
Loss rate: 1.18%
```

Run 1: Report of TCP Cubic — Data Link

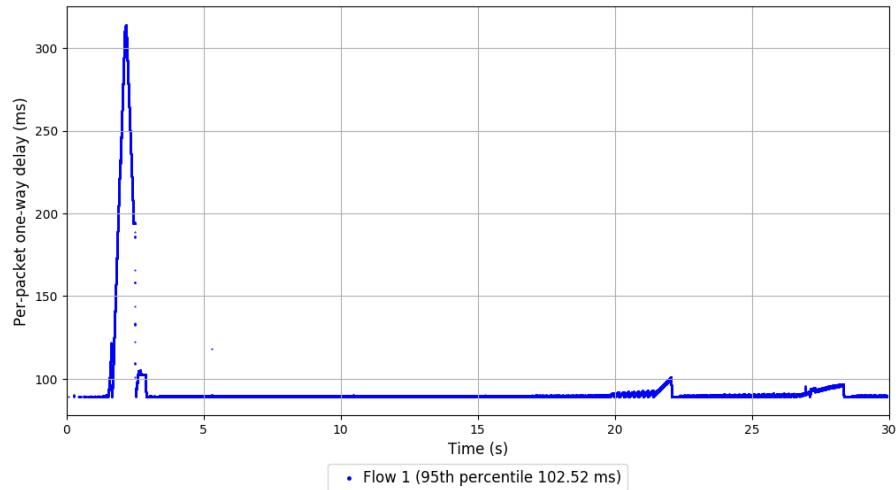
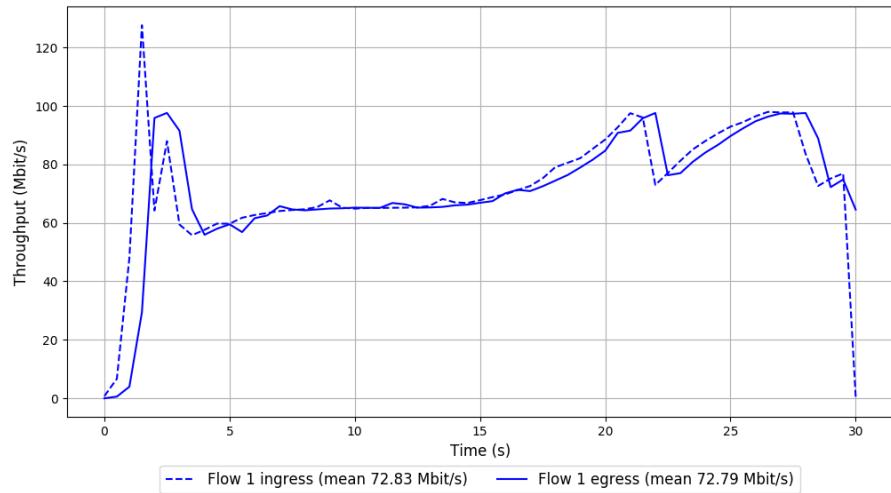


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-19 09:15:18
End at: 2019-03-19 09:15:48
Local clock offset: -9.336 ms
Remote clock offset: 5.521 ms

# Below is generated by plot.py at 2019-03-19 10:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.79 Mbit/s
95th percentile per-packet one-way delay: 102.515 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.79 Mbit/s
95th percentile per-packet one-way delay: 102.515 ms
Loss rate: 0.64%
```

Run 2: Report of TCP Cubic — Data Link

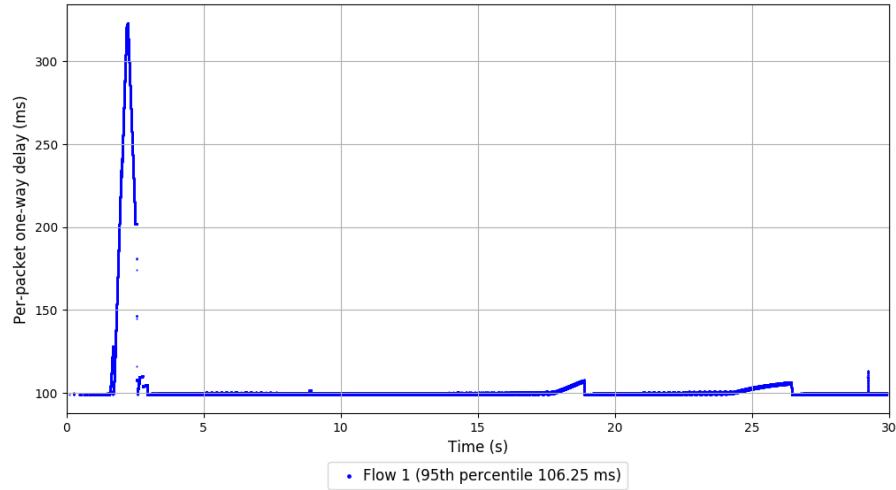
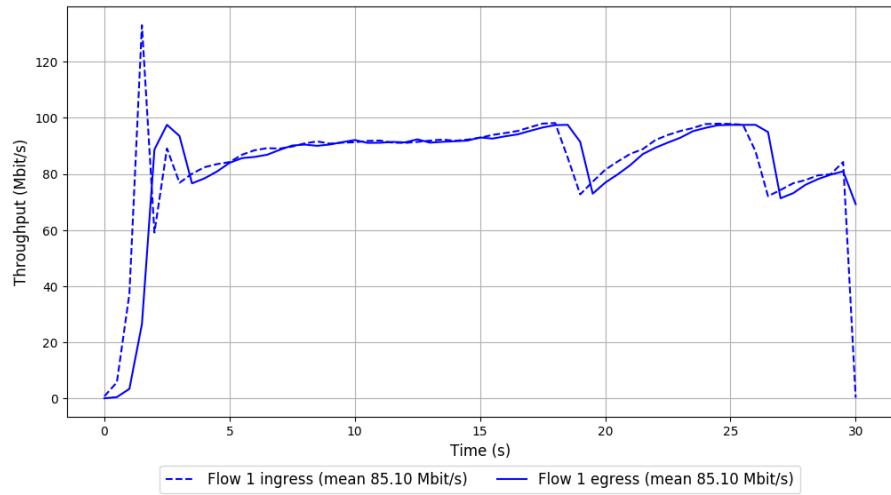


Run 3: Statistics of TCP Cubic

```
Start at: 2019-03-19 09:40:17
End at: 2019-03-19 09:40:47
Local clock offset: -7.171 ms
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2019-03-19 10:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.10 Mbit/s
95th percentile per-packet one-way delay: 106.245 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 85.10 Mbit/s
95th percentile per-packet one-way delay: 106.245 ms
Loss rate: 0.59%
```

Run 3: Report of TCP Cubic — Data Link

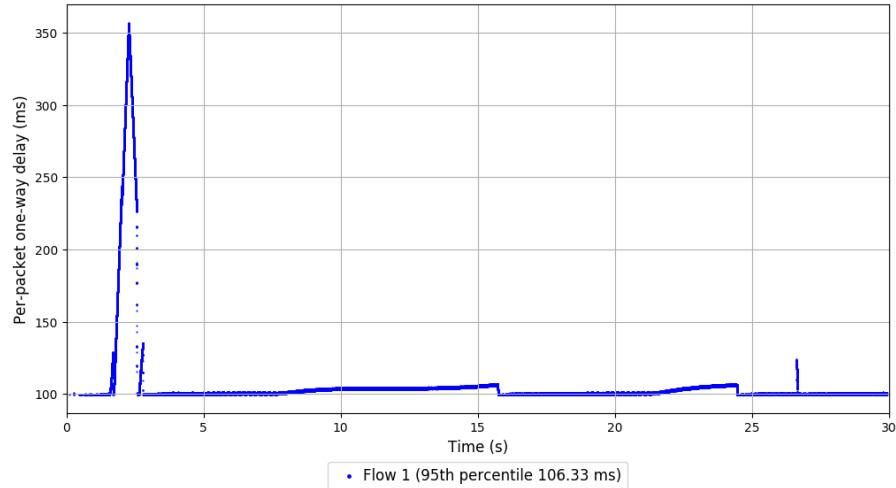
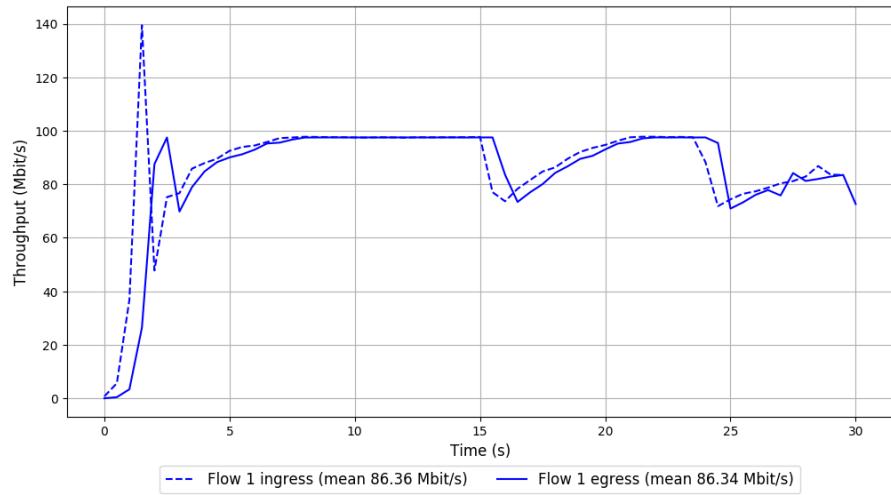


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-19 10:05:21
End at: 2019-03-19 10:05:51
Local clock offset: -7.864 ms
Remote clock offset: -0.287 ms

# Below is generated by plot.py at 2019-03-19 10:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.34 Mbit/s
95th percentile per-packet one-way delay: 106.326 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 86.34 Mbit/s
95th percentile per-packet one-way delay: 106.326 ms
Loss rate: 0.61%
```

Run 4: Report of TCP Cubic — Data Link

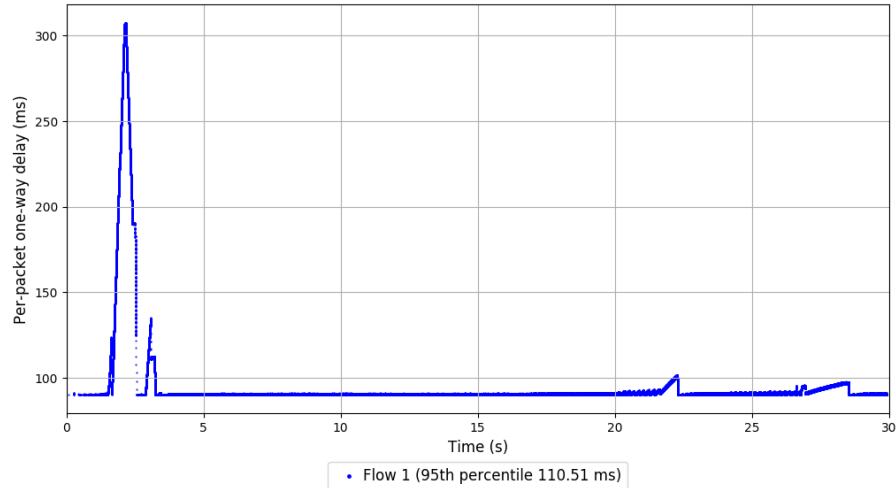
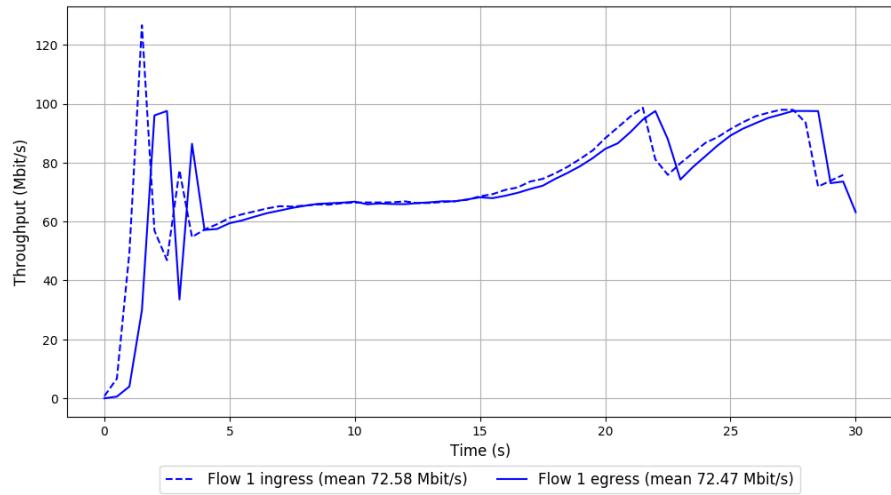


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-19 10:30:19
End at: 2019-03-19 10:30:49
Local clock offset: -6.954 ms
Remote clock offset: 3.304 ms

# Below is generated by plot.py at 2019-03-19 10:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.47 Mbit/s
95th percentile per-packet one-way delay: 110.509 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 72.47 Mbit/s
95th percentile per-packet one-way delay: 110.509 ms
Loss rate: 0.71%
```

Run 5: Report of TCP Cubic — Data Link

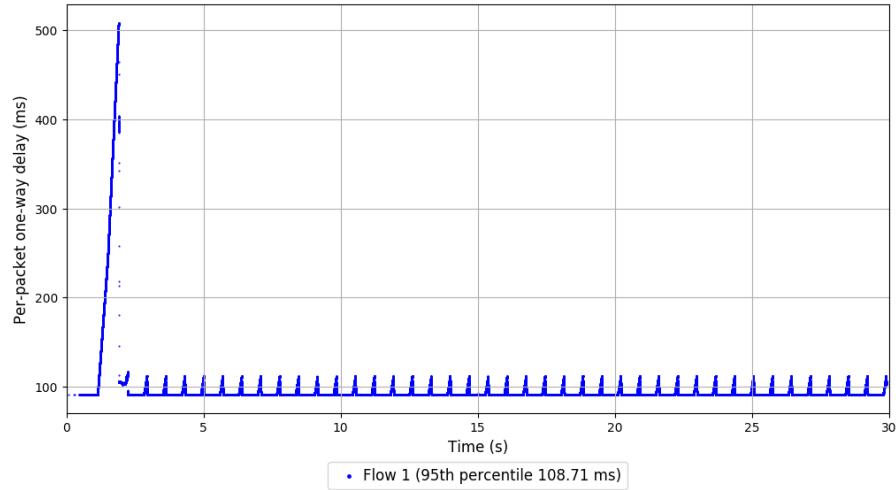
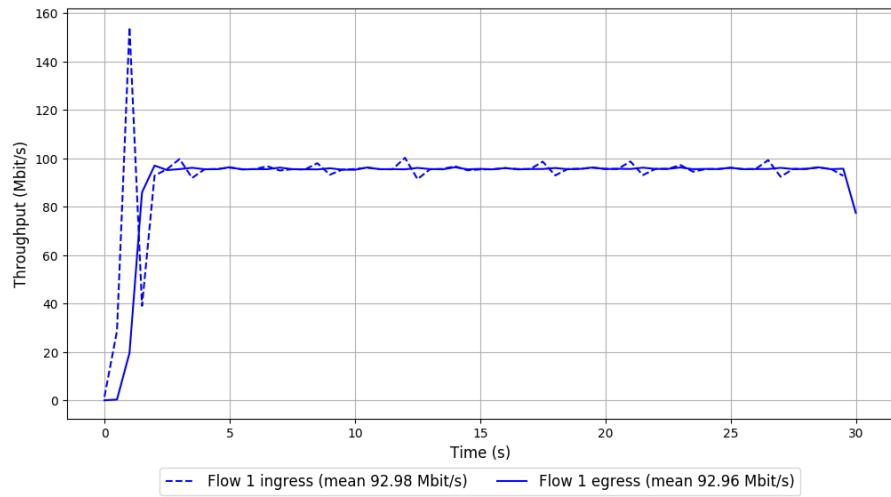


```
Run 1: Statistics of FillP
```

```
Start at: 2019-03-19 08:55:09
End at: 2019-03-19 08:55:39
Local clock offset: -8.016 ms
Remote clock offset: 8.239 ms

# Below is generated by plot.py at 2019-03-19 10:45:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 108.710 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 108.710 ms
Loss rate: 0.60%
```

Run 1: Report of FillP — Data Link

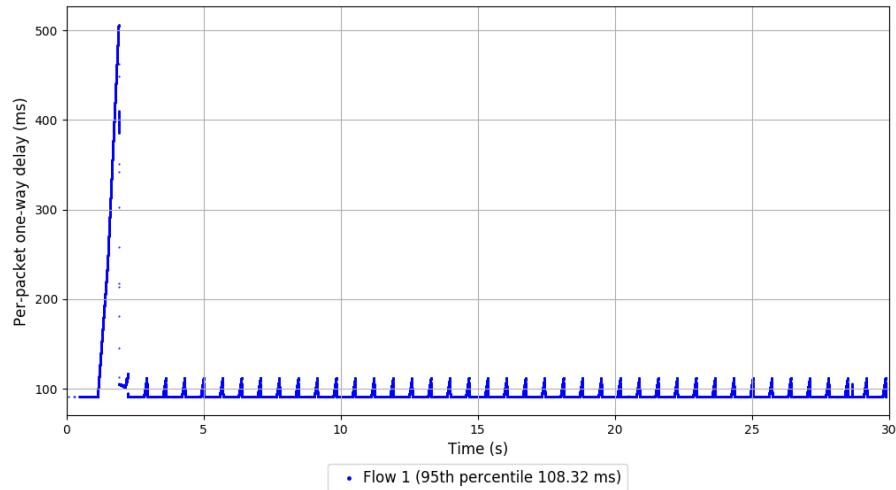
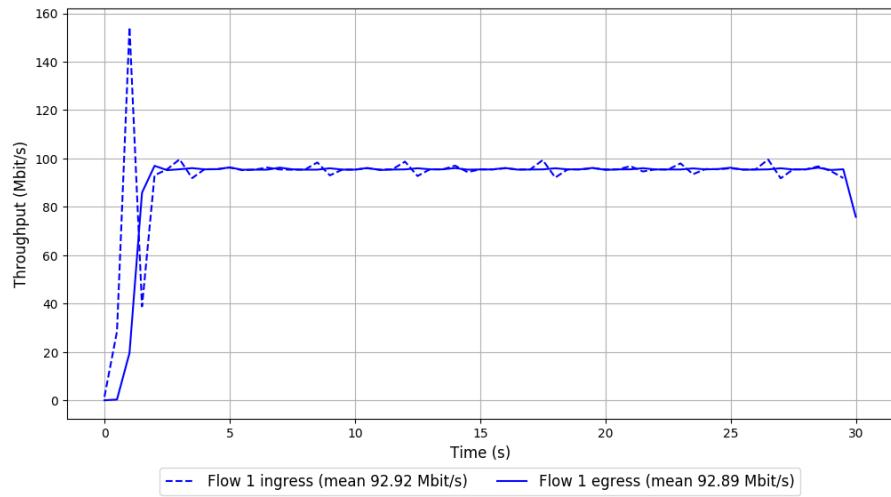


Run 2: Statistics of FillP

```
Start at: 2019-03-19 09:20:14
End at: 2019-03-19 09:20:44
Local clock offset: -7.946 ms
Remote clock offset: 3.794 ms

# Below is generated by plot.py at 2019-03-19 10:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.89 Mbit/s
95th percentile per-packet one-way delay: 108.316 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.89 Mbit/s
95th percentile per-packet one-way delay: 108.316 ms
Loss rate: 0.61%
```

Run 2: Report of FillP — Data Link

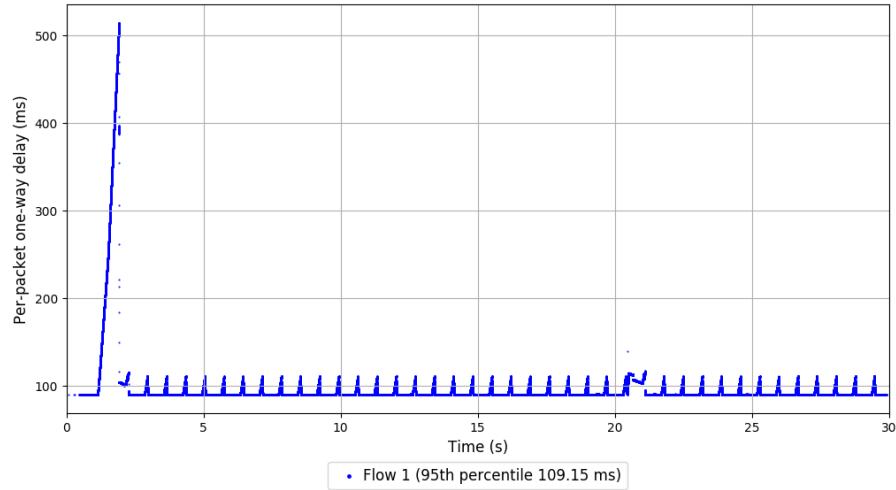
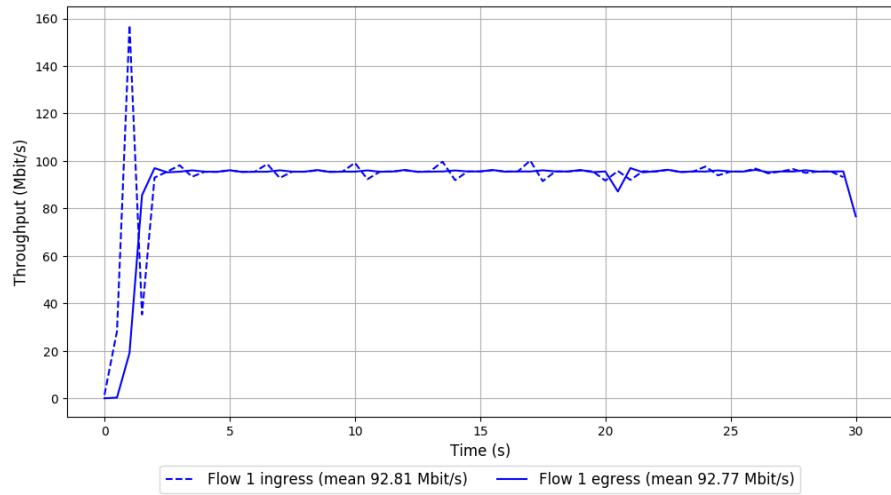


```
Run 3: Statistics of FillP
```

```
Start at: 2019-03-19 09:45:14
End at: 2019-03-19 09:45:44
Local clock offset: -7.943 ms
Remote clock offset: 2.951 ms

# Below is generated by plot.py at 2019-03-19 10:45:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 109.152 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 109.152 ms
Loss rate: 0.63%
```

Run 3: Report of FillP — Data Link

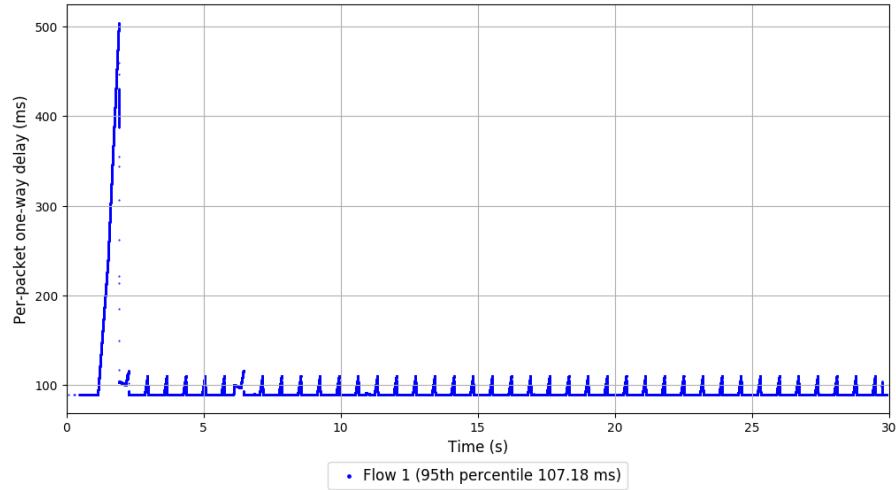
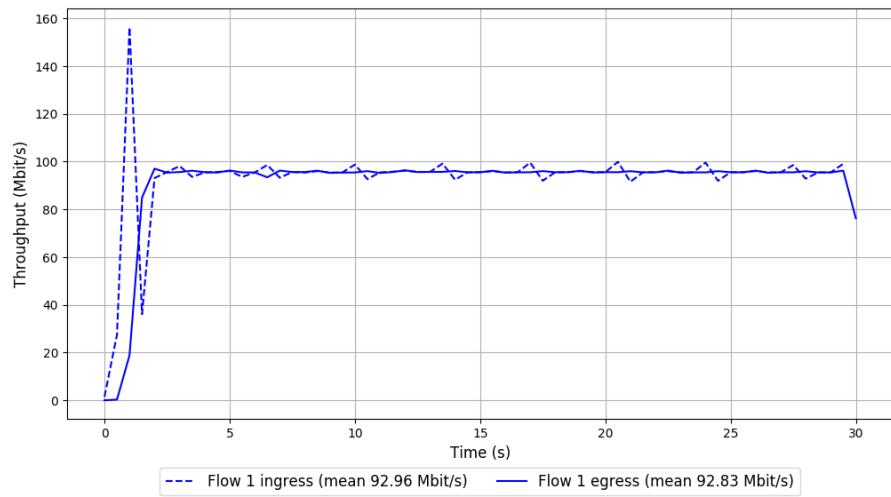


Run 4: Statistics of FillP

```
Start at: 2019-03-19 10:10:16
End at: 2019-03-19 10:10:46
Local clock offset: -7.837 ms
Remote clock offset: 4.515 ms

# Below is generated by plot.py at 2019-03-19 10:45:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.83 Mbit/s
95th percentile per-packet one-way delay: 107.184 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 92.83 Mbit/s
95th percentile per-packet one-way delay: 107.184 ms
Loss rate: 0.72%
```

Run 4: Report of FillP — Data Link

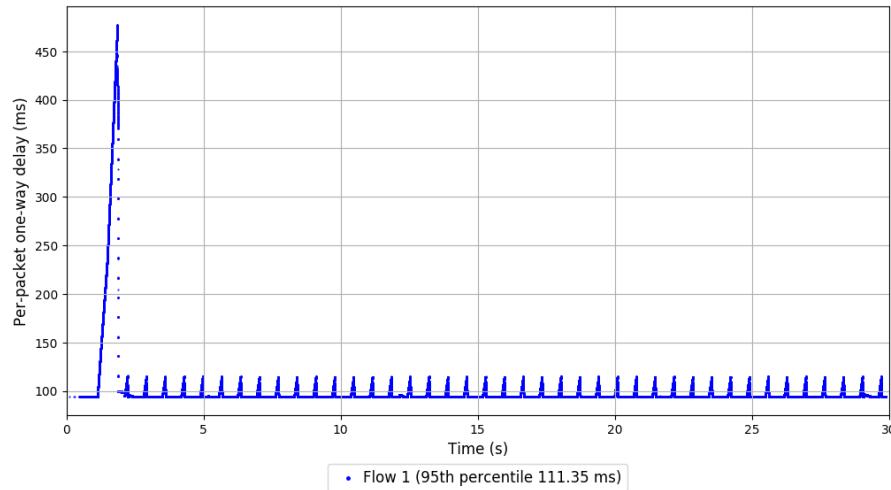
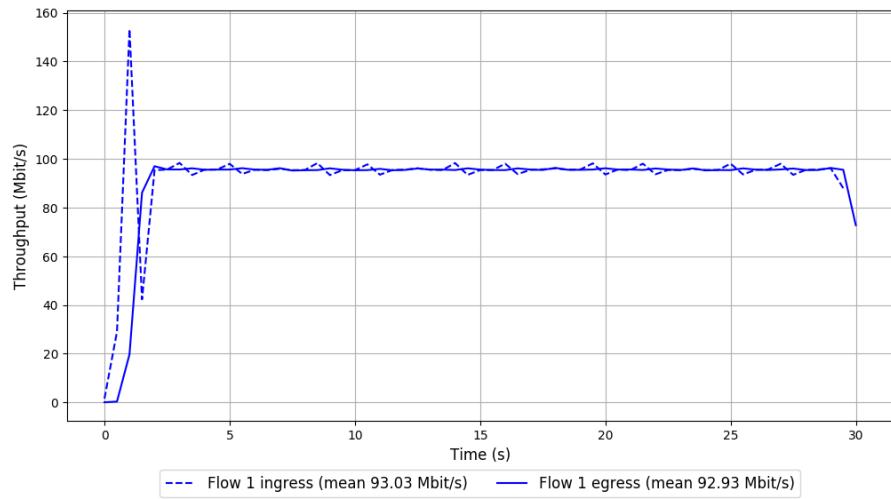


Run 5: Statistics of FillP

```
Start at: 2019-03-19 10:35:12
End at: 2019-03-19 10:35:42
Local clock offset: -6.116 ms
Remote clock offset: -0.688 ms

# Below is generated by plot.py at 2019-03-19 10:45:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 111.348 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 111.348 ms
Loss rate: 0.68%
```

Run 5: Report of FillP — Data Link

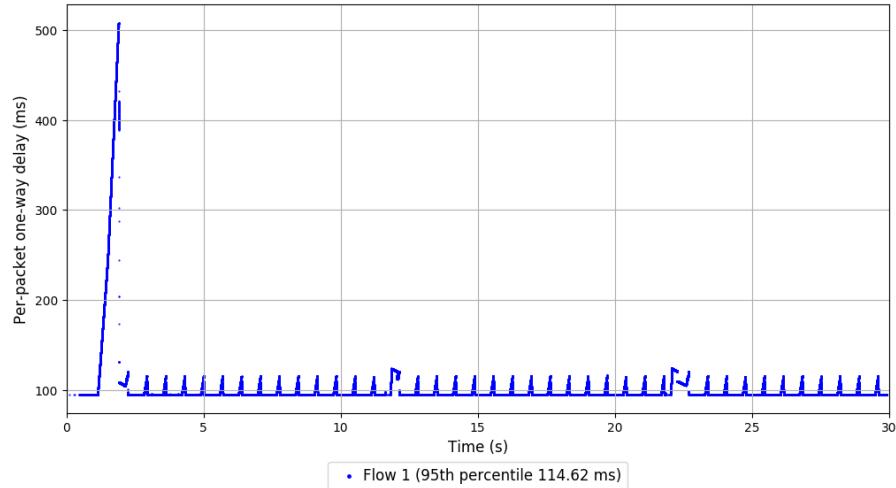
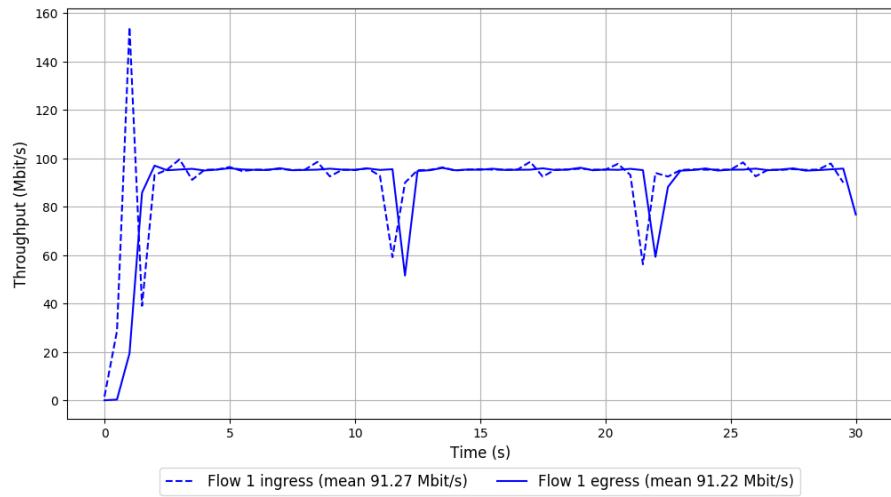


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-03-19 08:58:45
End at: 2019-03-19 08:59:15
Local clock offset: -8.088 ms
Remote clock offset: 4.762 ms

# Below is generated by plot.py at 2019-03-19 10:46:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.22 Mbit/s
95th percentile per-packet one-way delay: 114.623 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 91.22 Mbit/s
95th percentile per-packet one-way delay: 114.623 ms
Loss rate: 0.63%
```

Run 1: Report of FillP-Sheep — Data Link

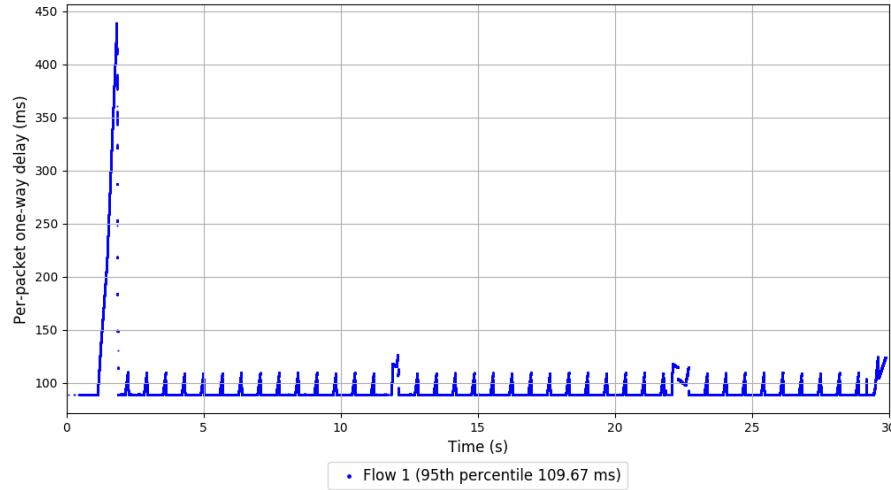
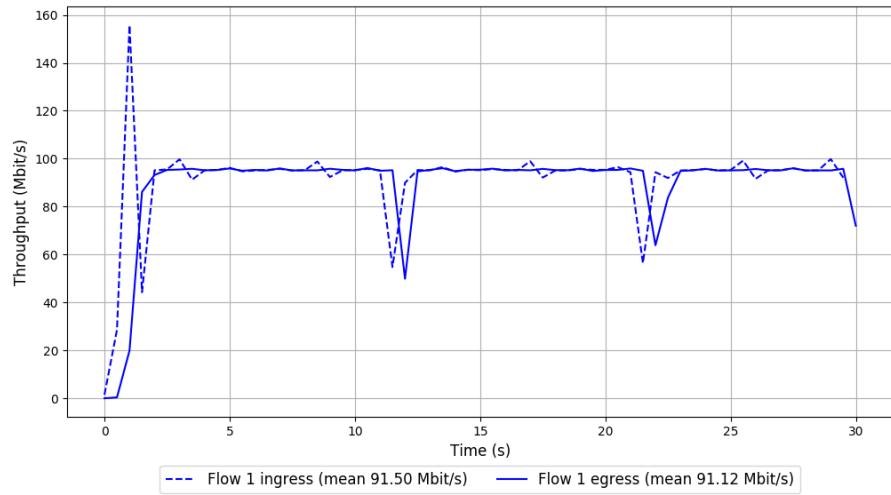


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-19 09:23:48
End at: 2019-03-19 09:24:18
Local clock offset: -7.553 ms
Remote clock offset: 5.4 ms

# Below is generated by plot.py at 2019-03-19 10:46:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.12 Mbit/s
95th percentile per-packet one-way delay: 109.665 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 91.12 Mbit/s
95th percentile per-packet one-way delay: 109.665 ms
Loss rate: 1.00%
```

Run 2: Report of FillP-Sheep — Data Link

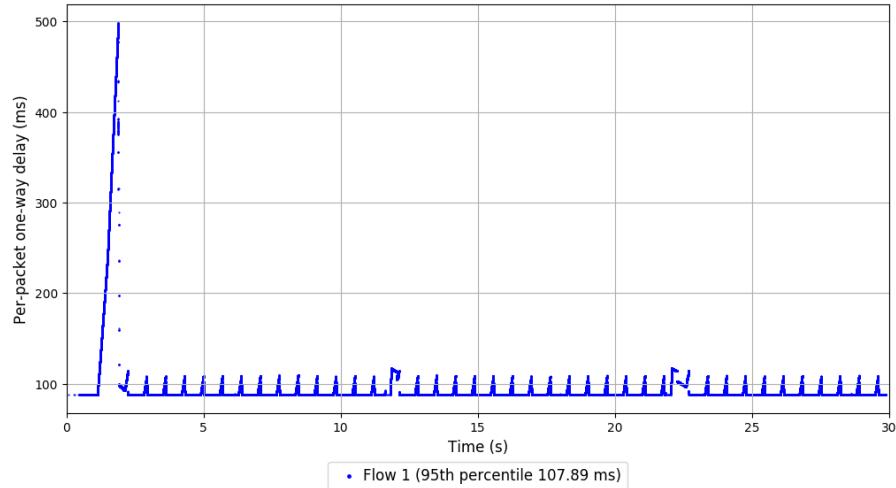
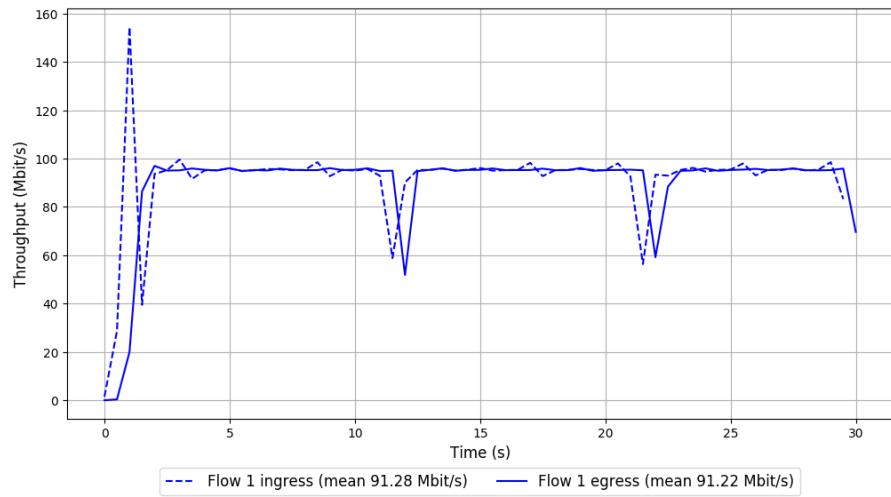


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-19 09:48:49
End at: 2019-03-19 09:49:19
Local clock offset: -7.836 ms
Remote clock offset: 5.477 ms

# Below is generated by plot.py at 2019-03-19 10:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.22 Mbit/s
95th percentile per-packet one-way delay: 107.886 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 91.22 Mbit/s
95th percentile per-packet one-way delay: 107.886 ms
Loss rate: 0.65%
```

Run 3: Report of FillP-Sheep — Data Link

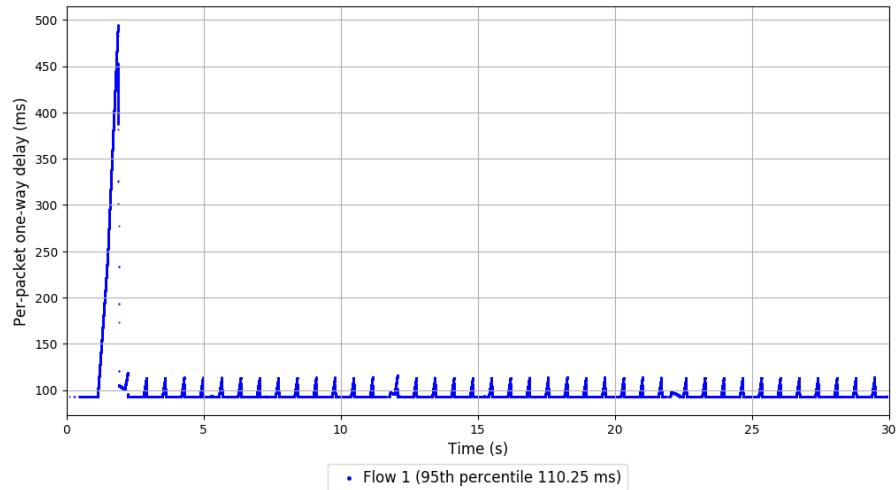
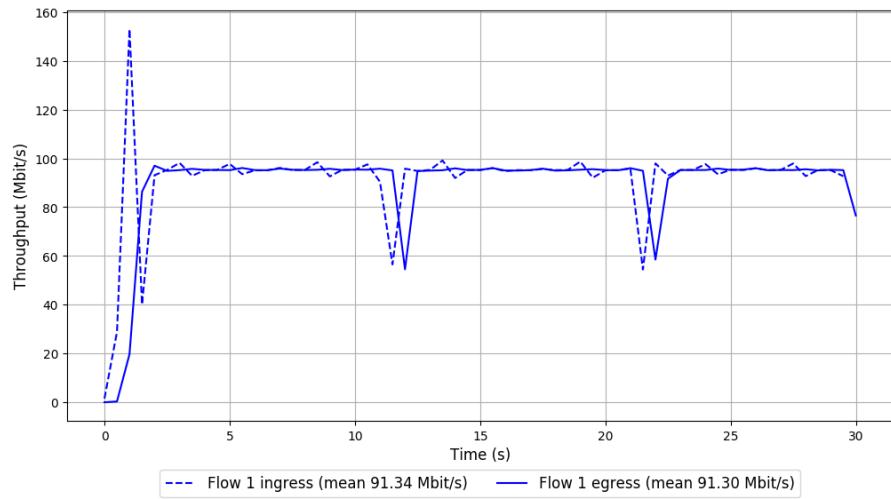


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-19 10:13:50
End at: 2019-03-19 10:14:20
Local clock offset: -7.133 ms
Remote clock offset: 0.82 ms

# Below is generated by plot.py at 2019-03-19 10:46:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: 110.254 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: 110.254 ms
Loss rate: 0.63%
```

Run 4: Report of FillP-Sheep — Data Link

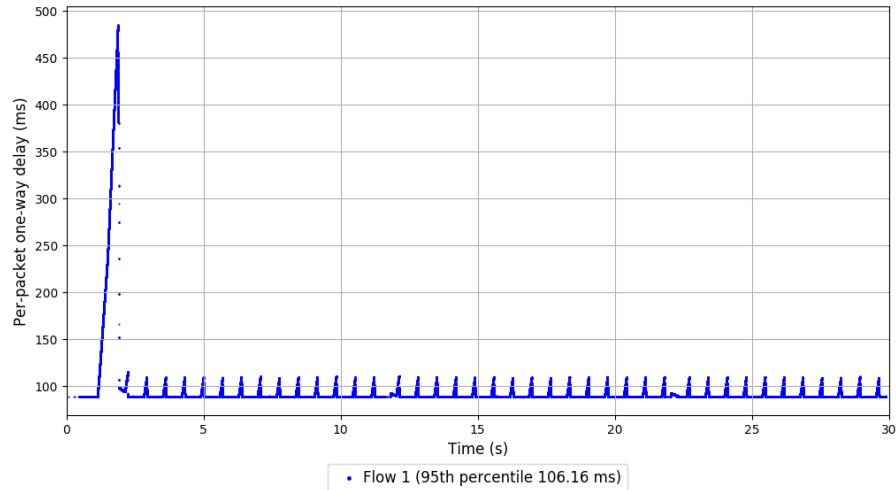
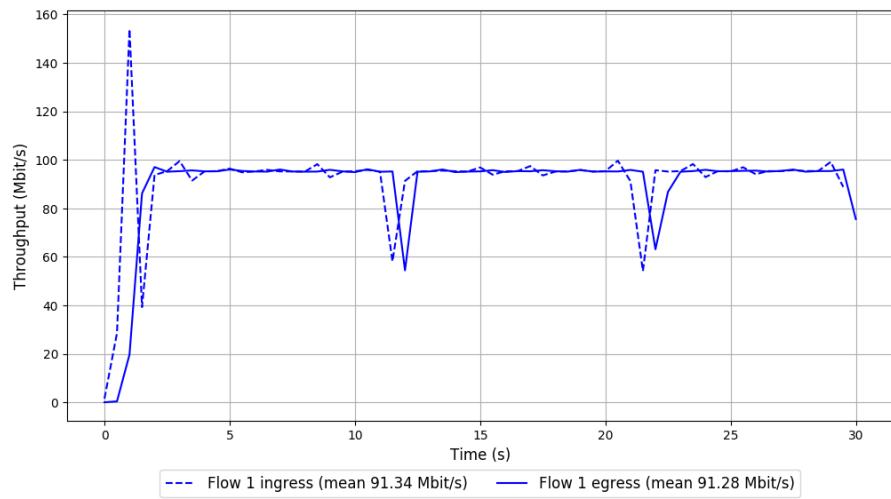


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-19 10:38:47
End at: 2019-03-19 10:39:17
Local clock offset: -6.043 ms
Remote clock offset: 5.818 ms

# Below is generated by plot.py at 2019-03-19 10:46:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 106.161 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 106.161 ms
Loss rate: 0.64%
```

Run 5: Report of FillP-Sheep — Data Link

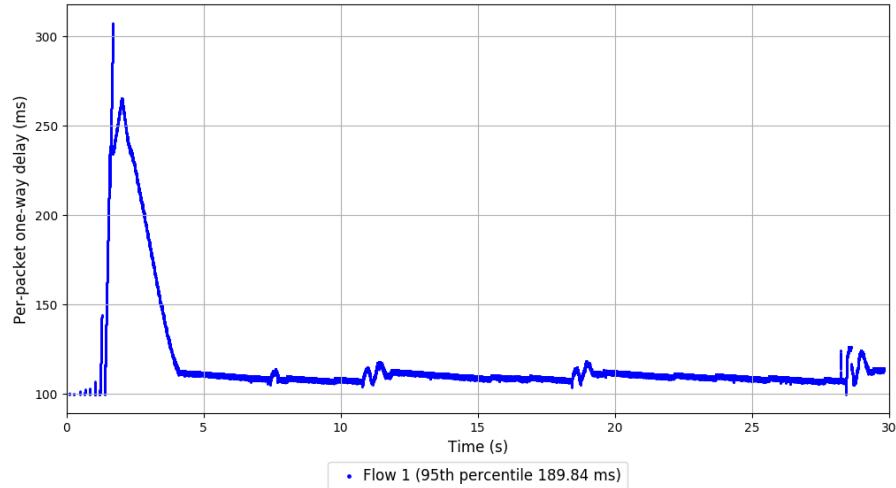
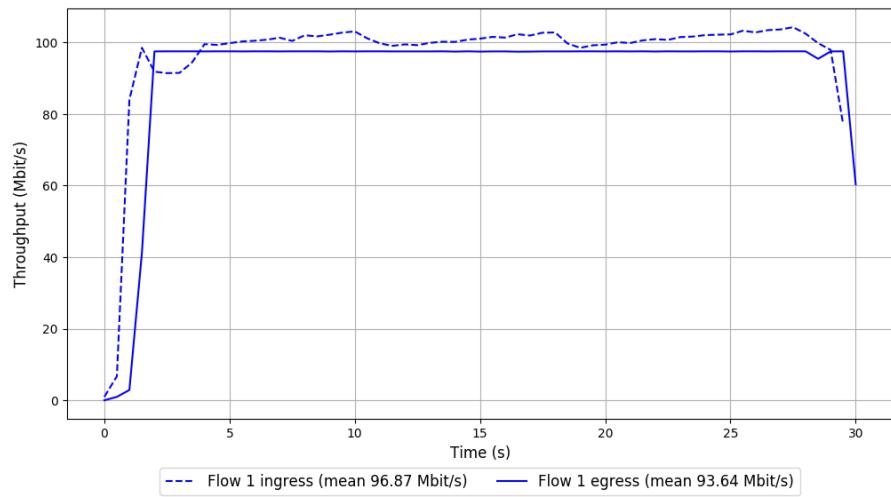


Run 1: Statistics of Indigo

```
Start at: 2019-03-19 08:53:55
End at: 2019-03-19 08:54:25
Local clock offset: -8.71 ms
Remote clock offset: 4.472 ms

# Below is generated by plot.py at 2019-03-19 10:46:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.64 Mbit/s
95th percentile per-packet one-way delay: 189.836 ms
Loss rate: 3.91%
-- Flow 1:
Average throughput: 93.64 Mbit/s
95th percentile per-packet one-way delay: 189.836 ms
Loss rate: 3.91%
```

Run 1: Report of Indigo — Data Link

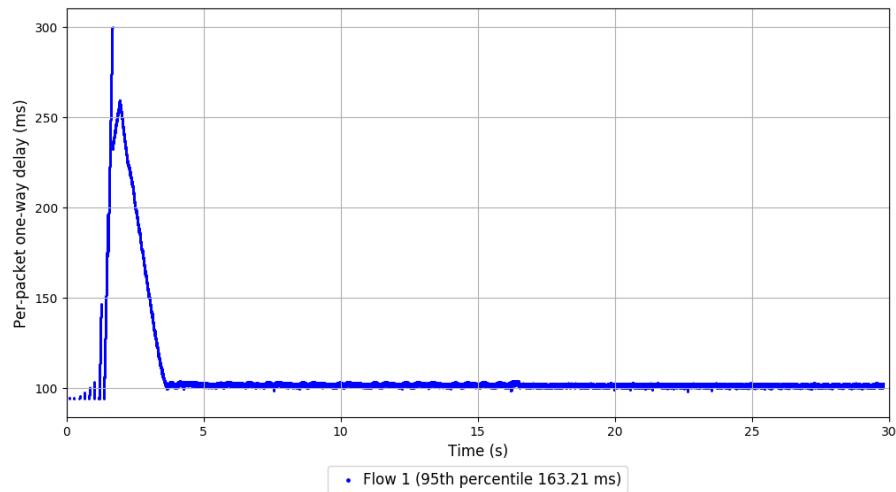
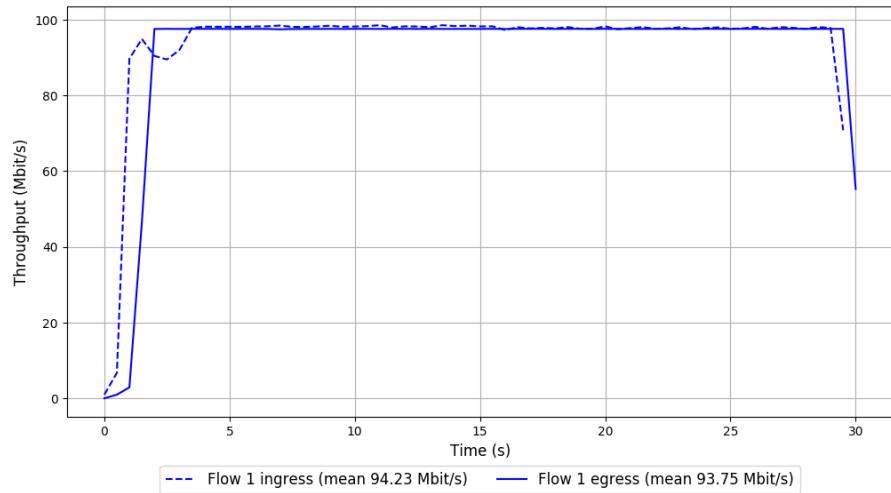


Run 2: Statistics of Indigo

```
Start at: 2019-03-19 09:19:00
End at: 2019-03-19 09:19:30
Local clock offset: -8.842 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-03-19 10:46:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 163.213 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 163.213 ms
Loss rate: 1.08%
```

Run 2: Report of Indigo — Data Link

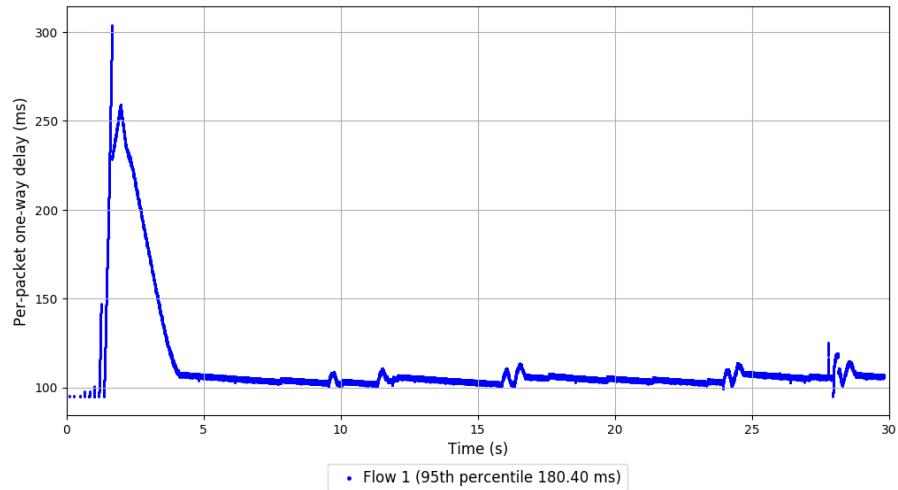
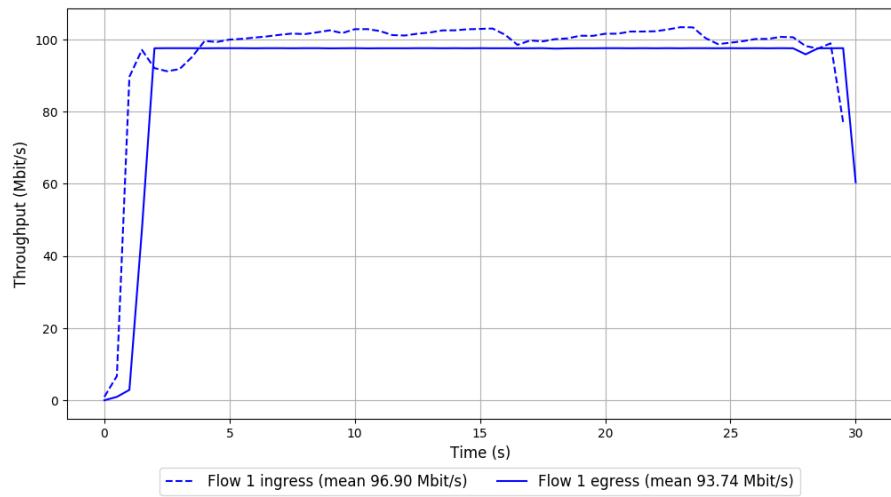


Run 3: Statistics of Indigo

```
Start at: 2019-03-19 09:43:59
End at: 2019-03-19 09:44:29
Local clock offset: -7.181 ms
Remote clock offset: -0.913 ms

# Below is generated by plot.py at 2019-03-19 10:47:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 180.399 ms
Loss rate: 3.82%
-- Flow 1:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 180.399 ms
Loss rate: 3.82%
```

Run 3: Report of Indigo — Data Link

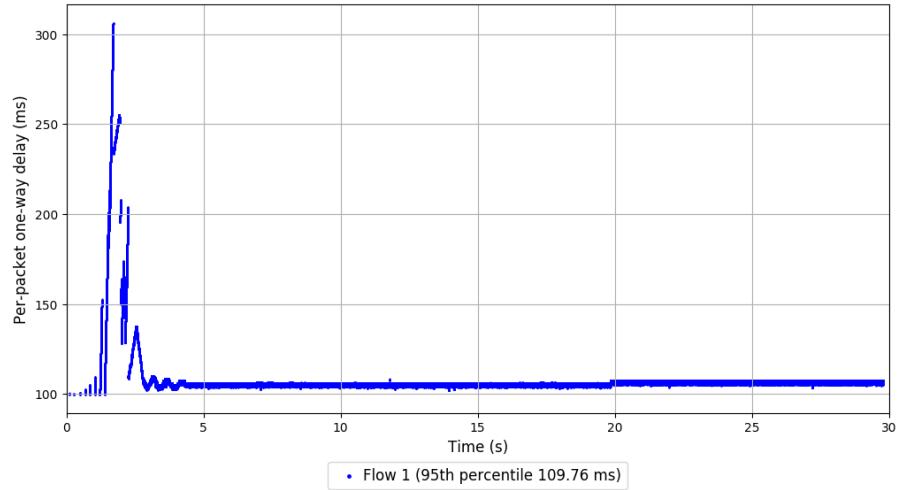
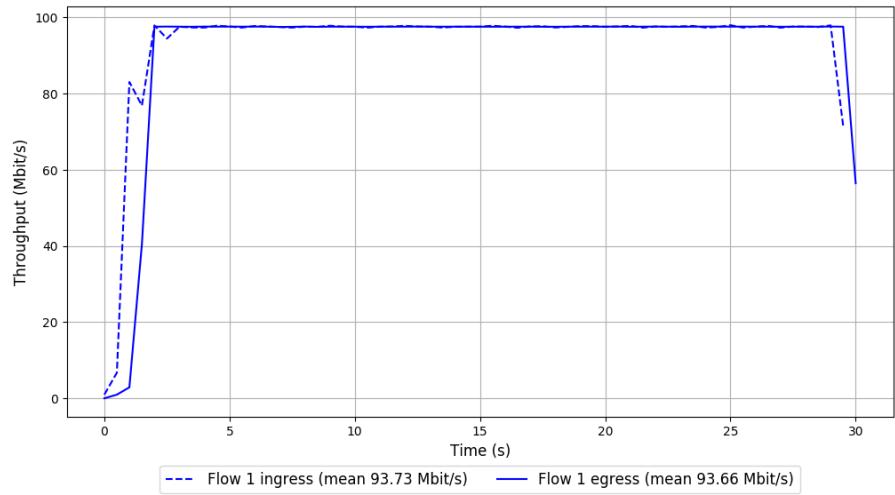


Run 4: Statistics of Indigo

```
Start at: 2019-03-19 10:09:02
End at: 2019-03-19 10:09:32
Local clock offset: -7.831 ms
Remote clock offset: -0.361 ms

# Below is generated by plot.py at 2019-03-19 10:47:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 109.762 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 109.762 ms
Loss rate: 0.68%
```

Run 4: Report of Indigo — Data Link

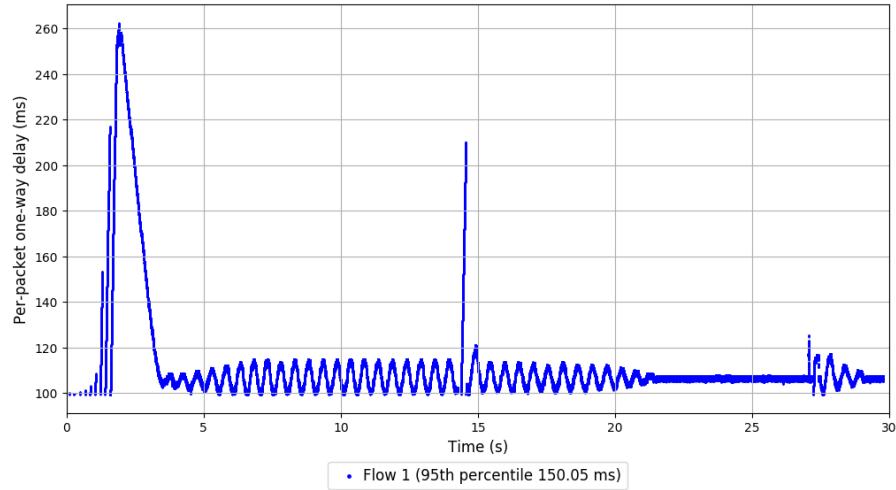
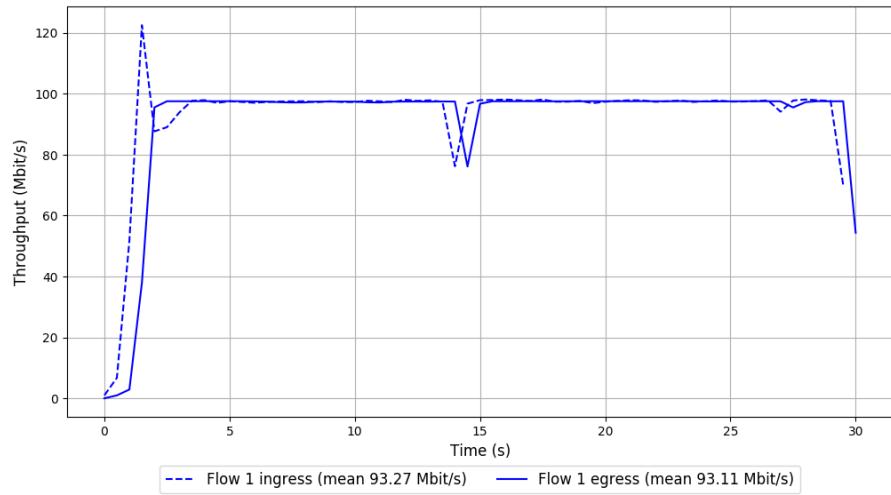


Run 5: Statistics of Indigo

```
Start at: 2019-03-19 10:33:59
End at: 2019-03-19 10:34:29
Local clock offset: -6.124 ms
Remote clock offset: 0.508 ms

# Below is generated by plot.py at 2019-03-19 10:47:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.11 Mbit/s
95th percentile per-packet one-way delay: 150.054 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 93.11 Mbit/s
95th percentile per-packet one-way delay: 150.054 ms
Loss rate: 0.77%
```

Run 5: Report of Indigo — Data Link

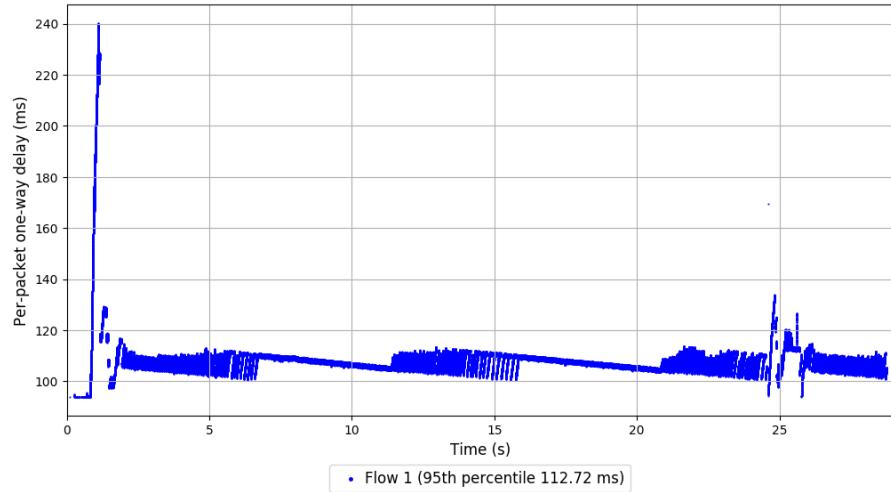
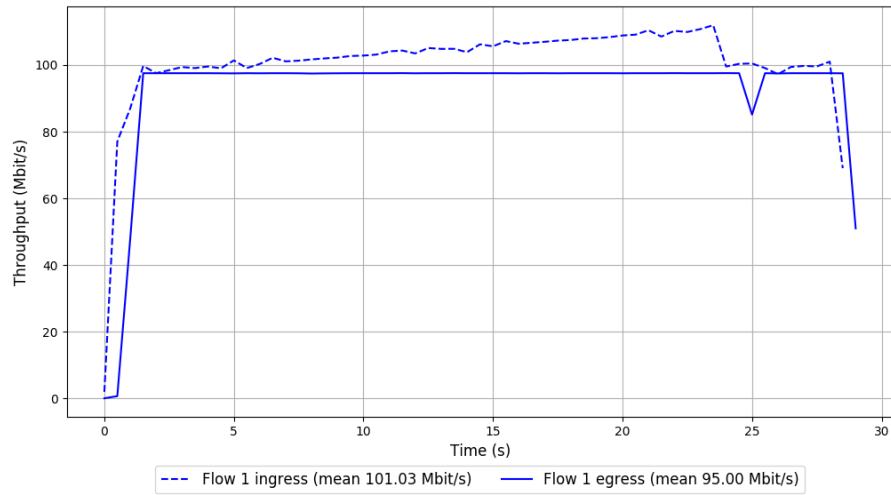


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 08:57:32
End at: 2019-03-19 08:58:02
Local clock offset: -8.764 ms
Remote clock offset: 4.603 ms

# Below is generated by plot.py at 2019-03-19 10:47:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.00 Mbit/s
95th percentile per-packet one-way delay: 112.719 ms
Loss rate: 6.53%
-- Flow 1:
Average throughput: 95.00 Mbit/s
95th percentile per-packet one-way delay: 112.719 ms
Loss rate: 6.53%
```

Run 1: Report of Indigo-MusesC3 — Data Link

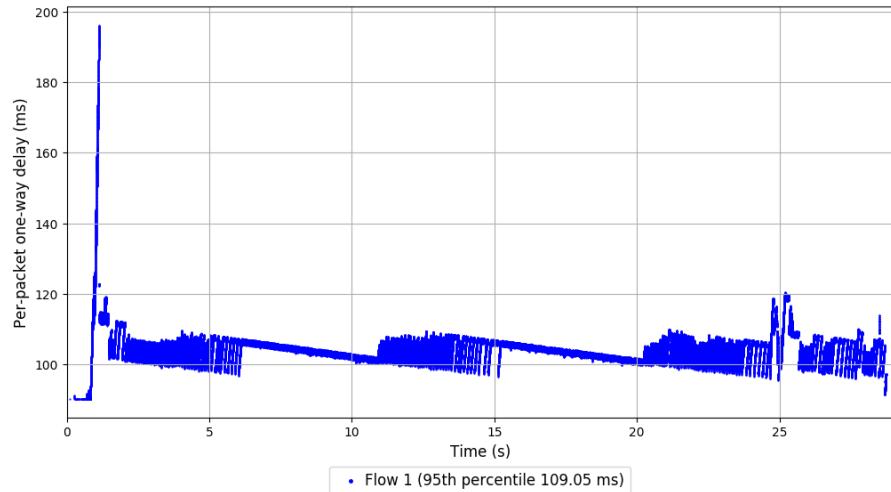
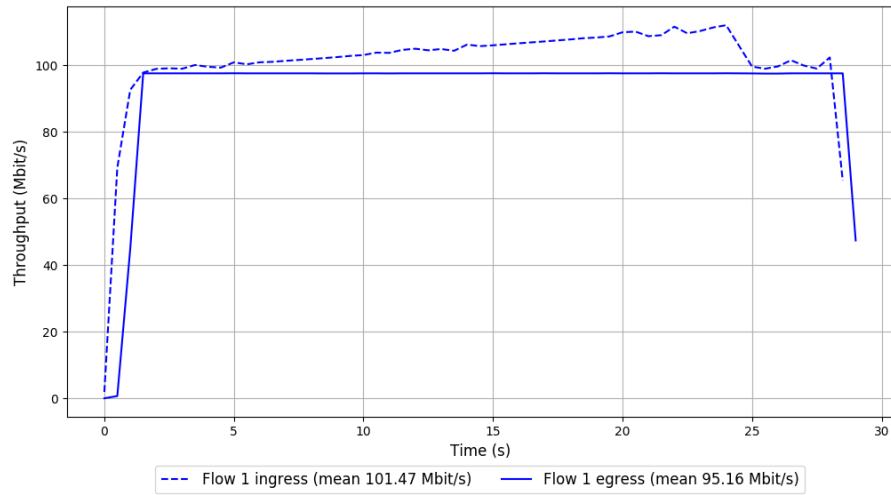


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 09:22:36
End at: 2019-03-19 09:23:06
Local clock offset: -8.428 ms
Remote clock offset: 3.398 ms

# Below is generated by plot.py at 2019-03-19 10:47:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 109.050 ms
Loss rate: 6.78%
-- Flow 1:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 109.050 ms
Loss rate: 6.78%
```

Run 2: Report of Indigo-MusesC3 — Data Link

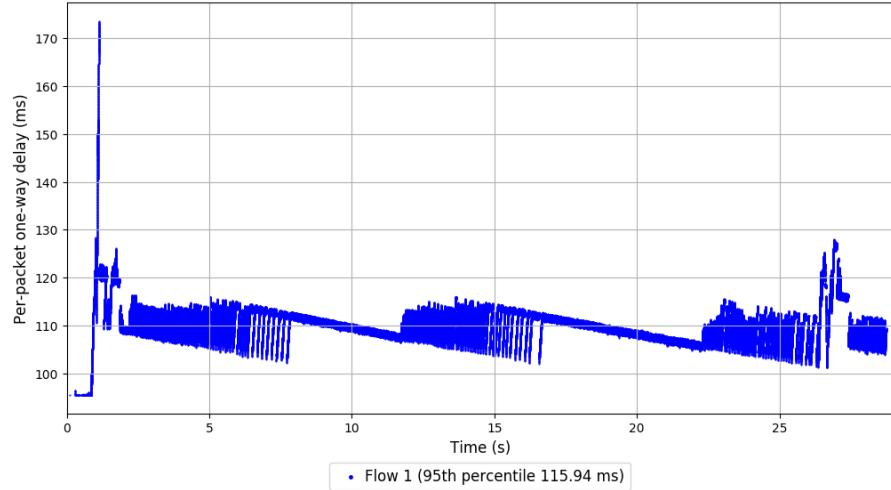
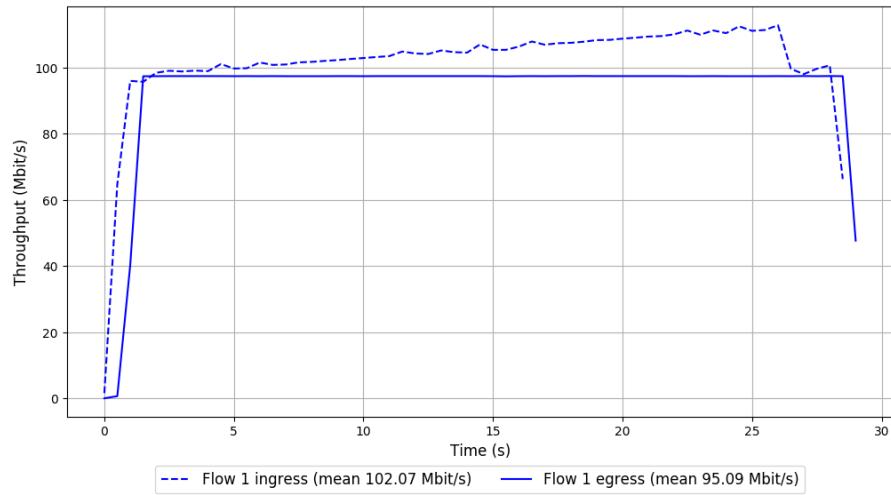


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 09:47:37
End at: 2019-03-19 09:48:07
Local clock offset: -7.091 ms
Remote clock offset: 4.275 ms

# Below is generated by plot.py at 2019-03-19 10:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 115.945 ms
Loss rate: 7.42%
-- Flow 1:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 115.945 ms
Loss rate: 7.42%
```

Run 3: Report of Indigo-MusesC3 — Data Link

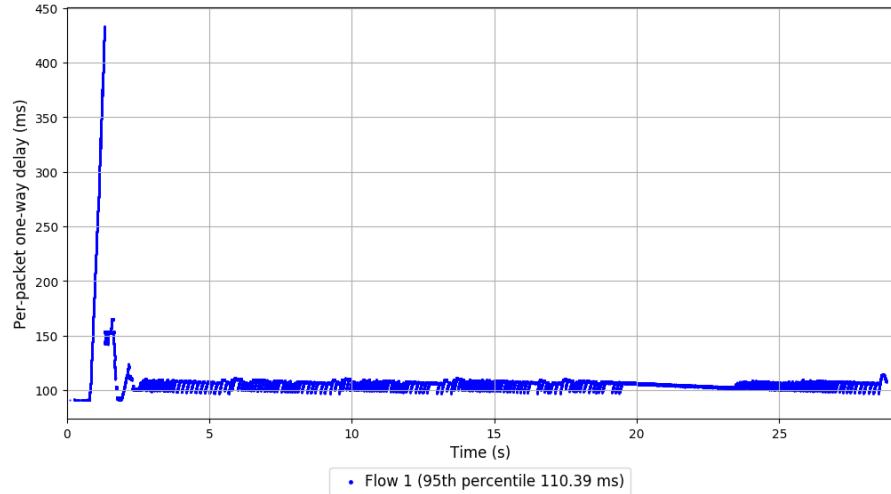
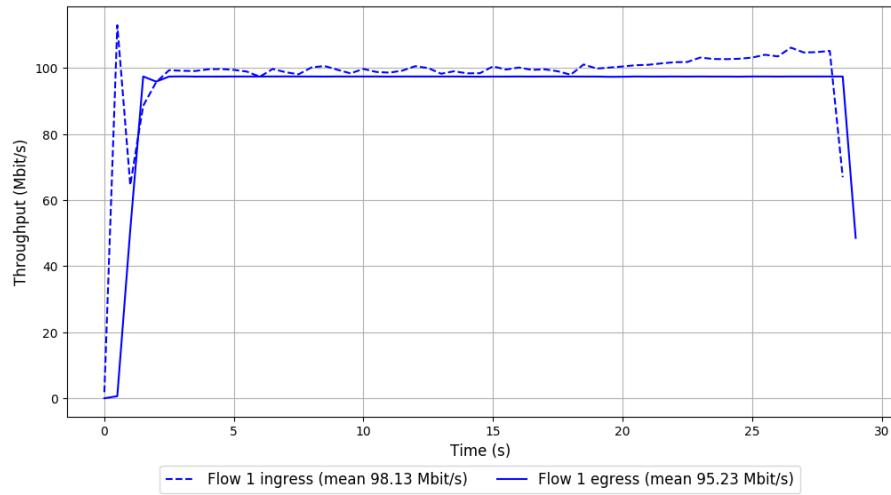


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 10:12:38
End at: 2019-03-19 10:13:08
Local clock offset: -7.089 ms
Remote clock offset: 3.479 ms

# Below is generated by plot.py at 2019-03-19 10:47:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.23 Mbit/s
95th percentile per-packet one-way delay: 110.395 ms
Loss rate: 3.54%
-- Flow 1:
Average throughput: 95.23 Mbit/s
95th percentile per-packet one-way delay: 110.395 ms
Loss rate: 3.54%
```

Run 4: Report of Indigo-MusesC3 — Data Link

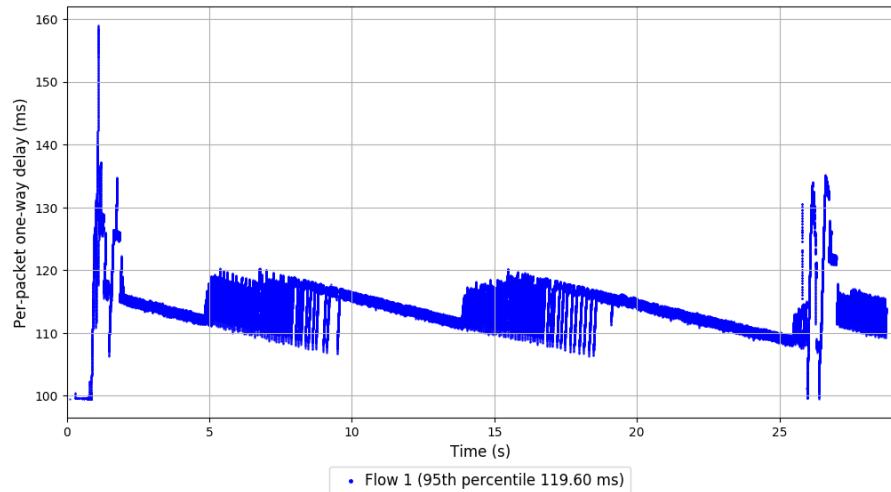
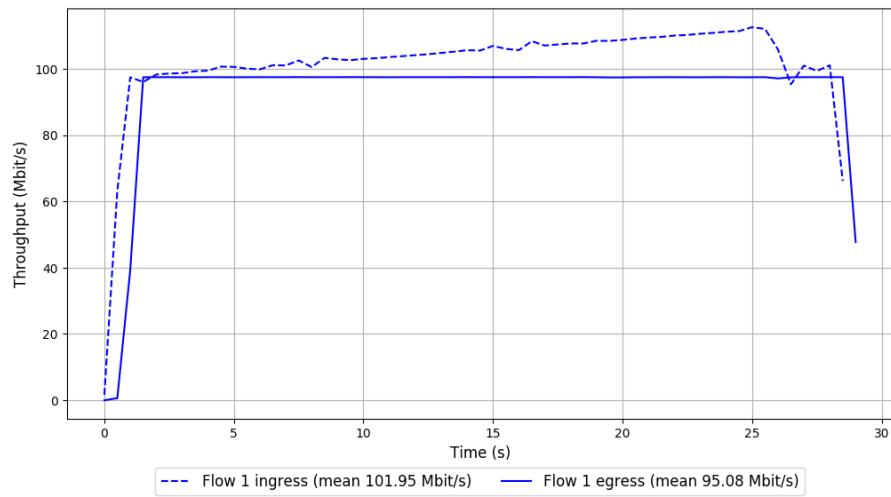


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 10:37:34
End at: 2019-03-19 10:38:04
Local clock offset: -6.906 ms
Remote clock offset: -0.412 ms

# Below is generated by plot.py at 2019-03-19 10:47:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 119.596 ms
Loss rate: 7.32%
-- Flow 1:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 119.596 ms
Loss rate: 7.32%
```

Run 5: Report of Indigo-MusesC3 — Data Link

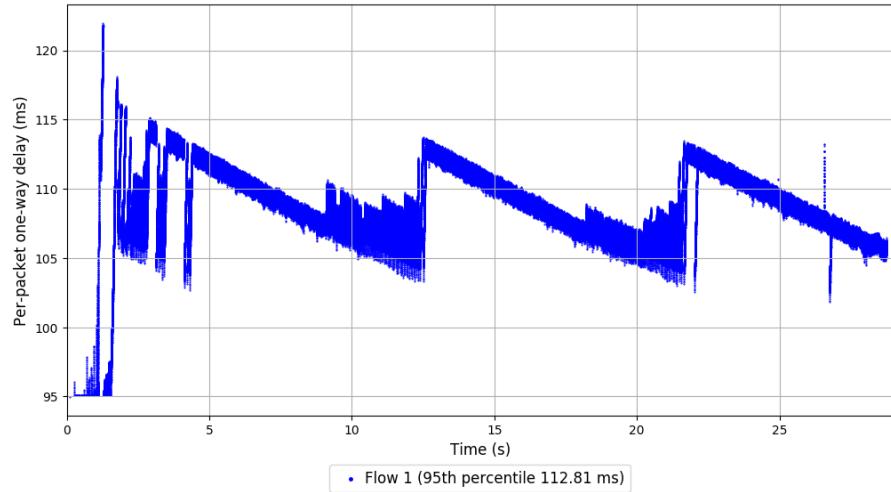
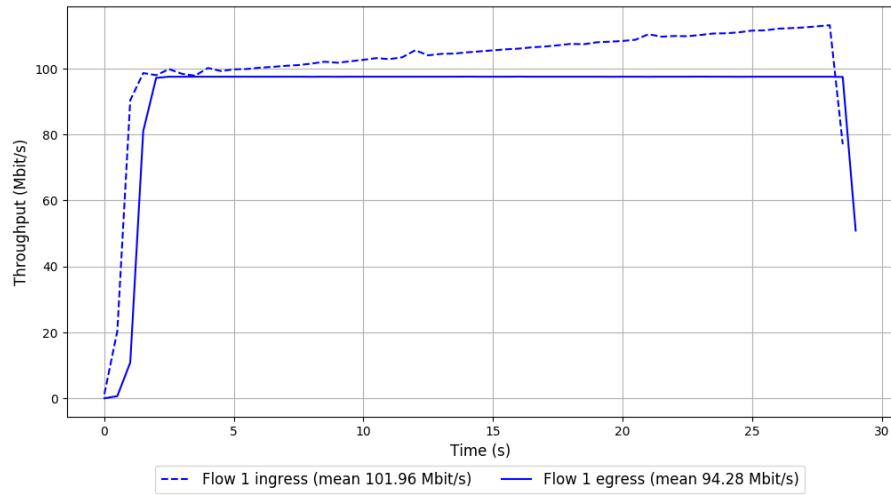


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-03-19 08:38:22
End at: 2019-03-19 08:38:52
Local clock offset: -7.512 ms
Remote clock offset: 3.469 ms

# Below is generated by plot.py at 2019-03-19 10:48:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 112.812 ms
Loss rate: 8.09%
-- Flow 1:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 112.812 ms
Loss rate: 8.09%
```

Run 1: Report of Indigo-MusesC5 — Data Link

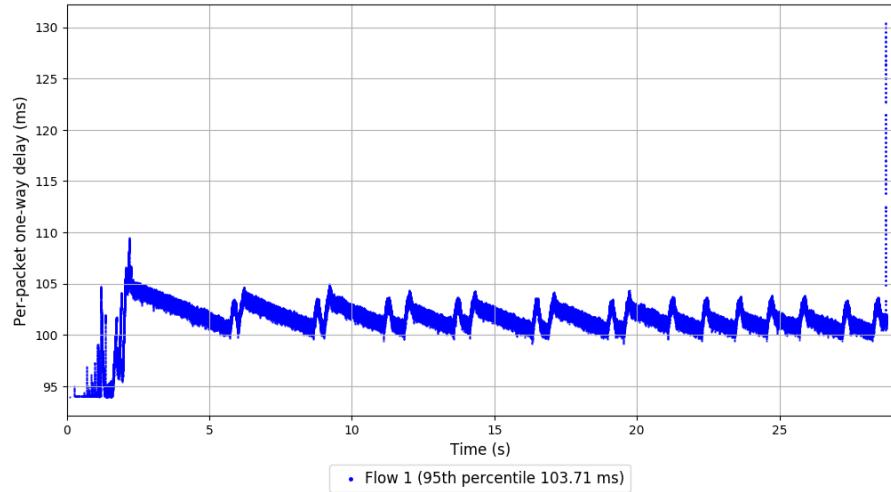
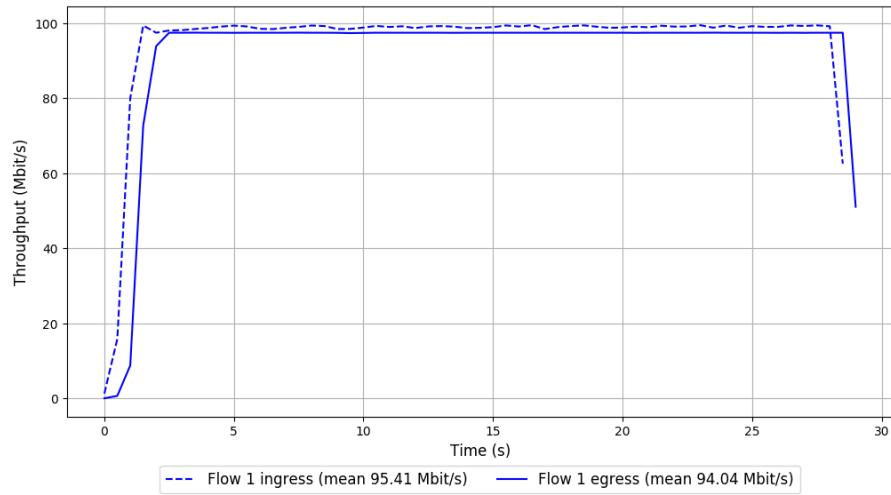


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 09:03:23
End at: 2019-03-19 09:03:53
Local clock offset: -8.9 ms
Remote clock offset: 4.997 ms

# Below is generated by plot.py at 2019-03-19 10:48:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.04 Mbit/s
95th percentile per-packet one-way delay: 103.706 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 94.04 Mbit/s
95th percentile per-packet one-way delay: 103.706 ms
Loss rate: 2.03%
```

Run 2: Report of Indigo-MusesC5 — Data Link

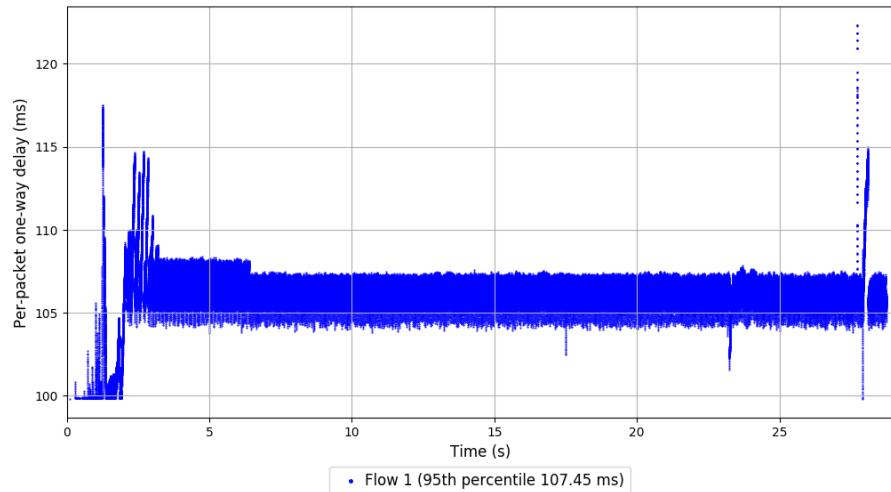
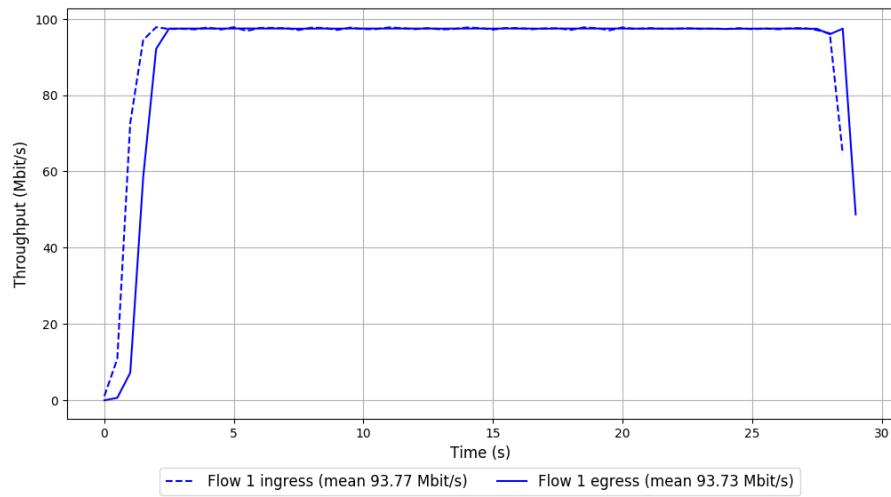


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 09:28:26
End at: 2019-03-19 09:28:56
Local clock offset: -7.277 ms
Remote clock offset: 0.193 ms

# Below is generated by plot.py at 2019-03-19 10:48:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 107.450 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 107.450 ms
Loss rate: 0.67%
```

Run 3: Report of Indigo-MusesC5 — Data Link

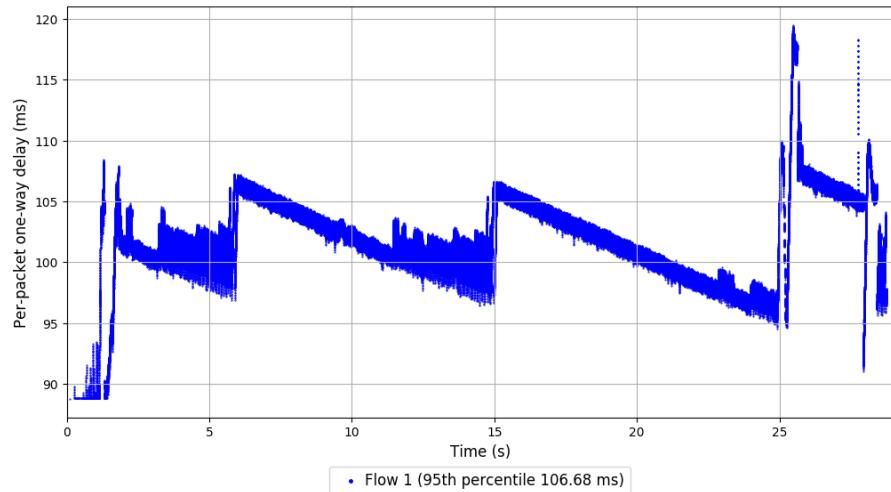
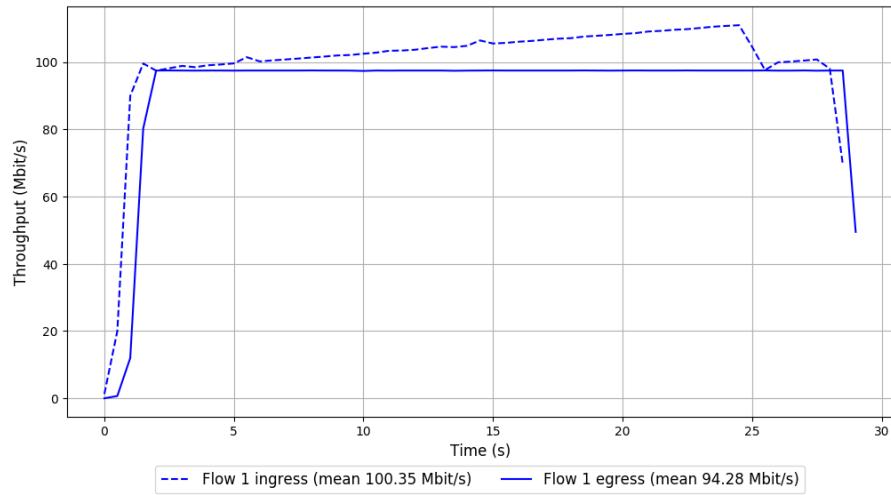


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 09:53:27
End at: 2019-03-19 09:53:57
Local clock offset: -7.775 ms
Remote clock offset: 4.581 ms

# Below is generated by plot.py at 2019-03-19 10:48:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 106.682 ms
Loss rate: 6.61%
-- Flow 1:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 106.682 ms
Loss rate: 6.61%
```

Run 4: Report of Indigo-MusesC5 — Data Link

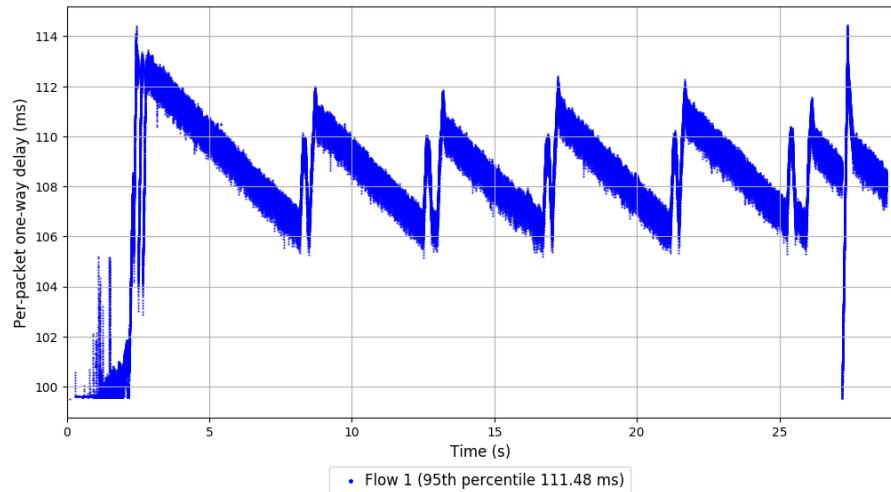
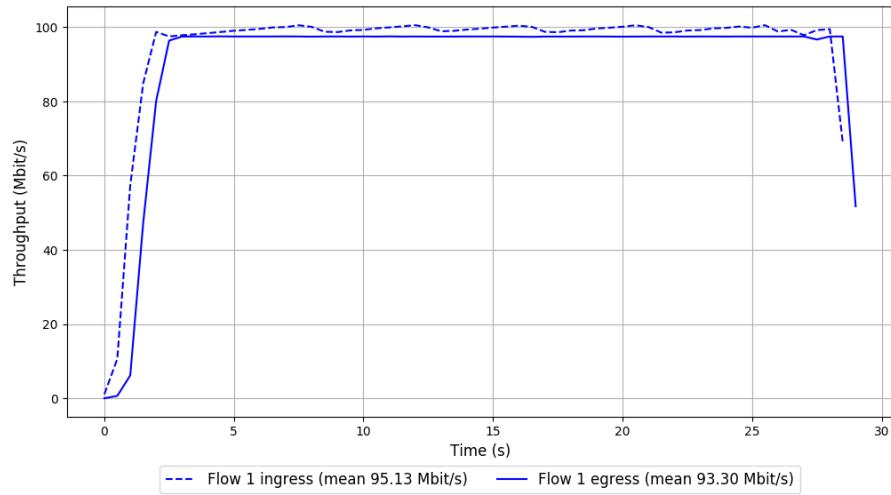


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 10:18:27
End at: 2019-03-19 10:18:58
Local clock offset: -7.621 ms
Remote clock offset: -0.267 ms

# Below is generated by plot.py at 2019-03-19 10:48:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.30 Mbit/s
95th percentile per-packet one-way delay: 111.480 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 93.30 Mbit/s
95th percentile per-packet one-way delay: 111.480 ms
Loss rate: 2.54%
```

Run 5: Report of Indigo-MusesC5 — Data Link

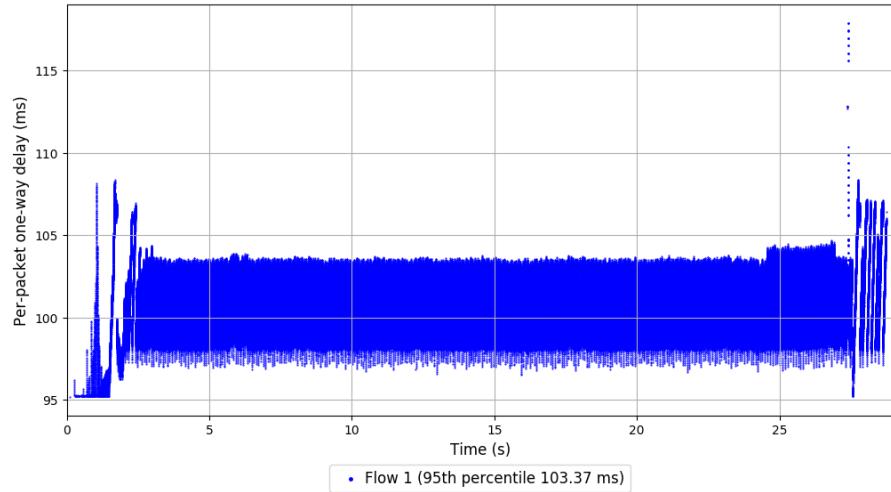
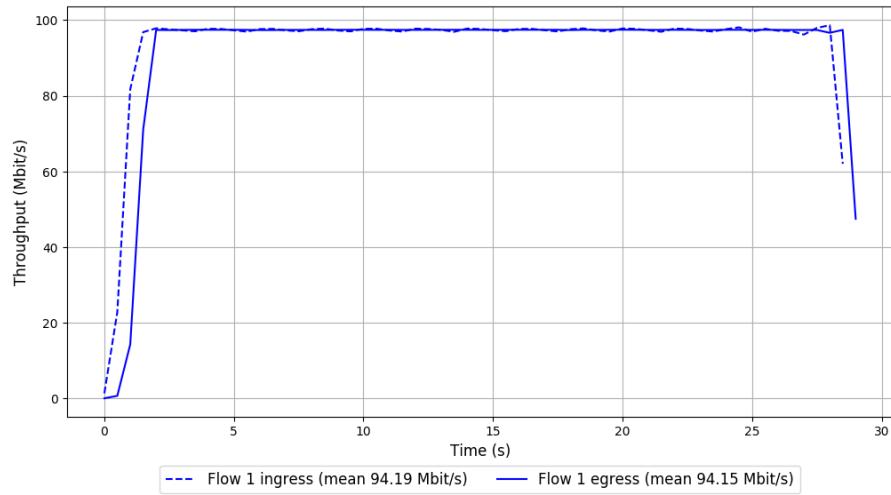


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 08:46:40
End at: 2019-03-19 08:47:10
Local clock offset: -8.083 ms
Remote clock offset: 3.645 ms

# Below is generated by plot.py at 2019-03-19 10:48:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 103.367 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 103.367 ms
Loss rate: 0.65%
```

Run 1: Report of Indigo-MusesD — Data Link

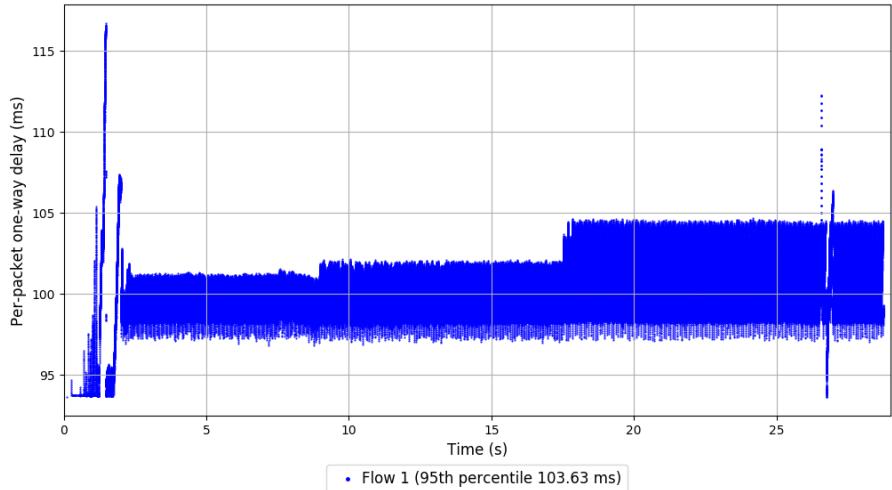
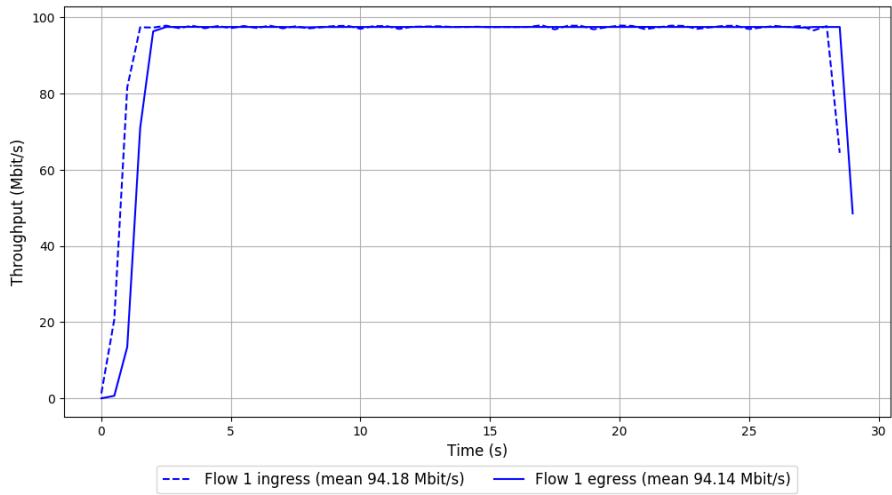


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 09:11:42
End at: 2019-03-19 09:12:12
Local clock offset: -8.441 ms
Remote clock offset: 2.467 ms

# Below is generated by plot.py at 2019-03-19 10:48:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 103.627 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 103.627 ms
Loss rate: 0.65%
```

Run 2: Report of Indigo-MusesD — Data Link

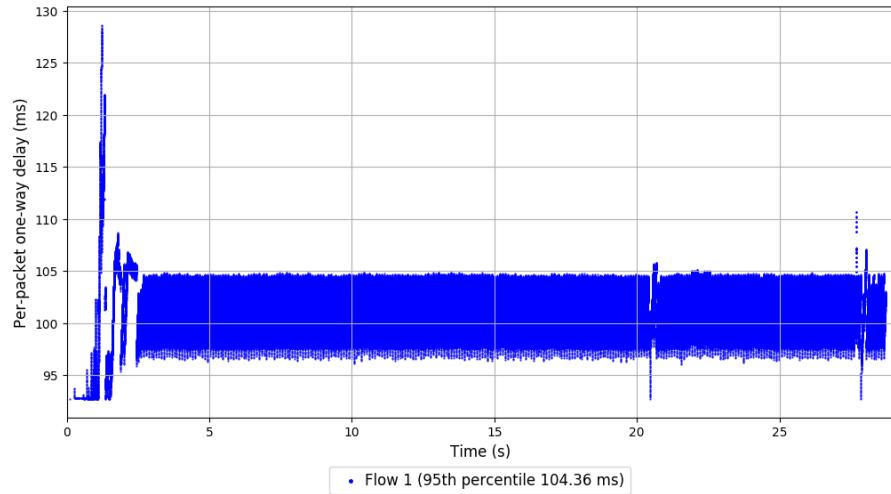
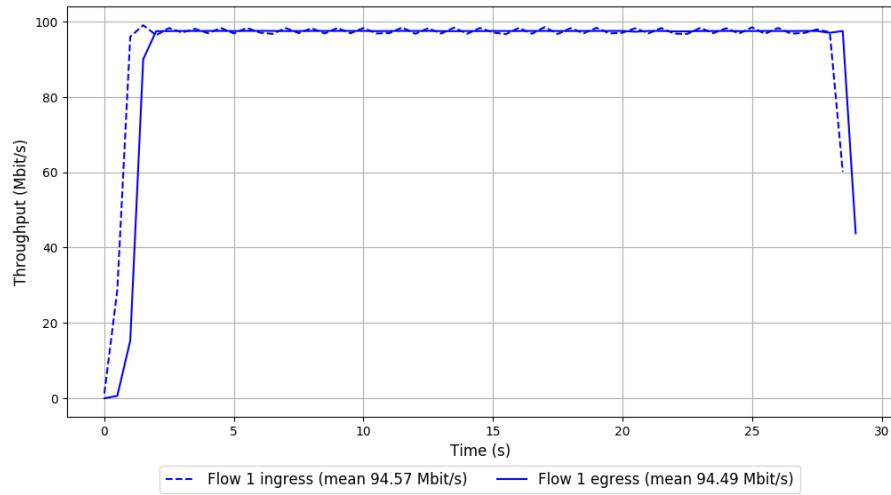


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 09:36:43
End at: 2019-03-19 09:37:13
Local clock offset: -7.854 ms
Remote clock offset: -0.299 ms

# Below is generated by plot.py at 2019-03-19 10:48:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.49 Mbit/s
95th percentile per-packet one-way delay: 104.361 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 94.49 Mbit/s
95th percentile per-packet one-way delay: 104.361 ms
Loss rate: 0.69%
```

Run 3: Report of Indigo-MusesD — Data Link

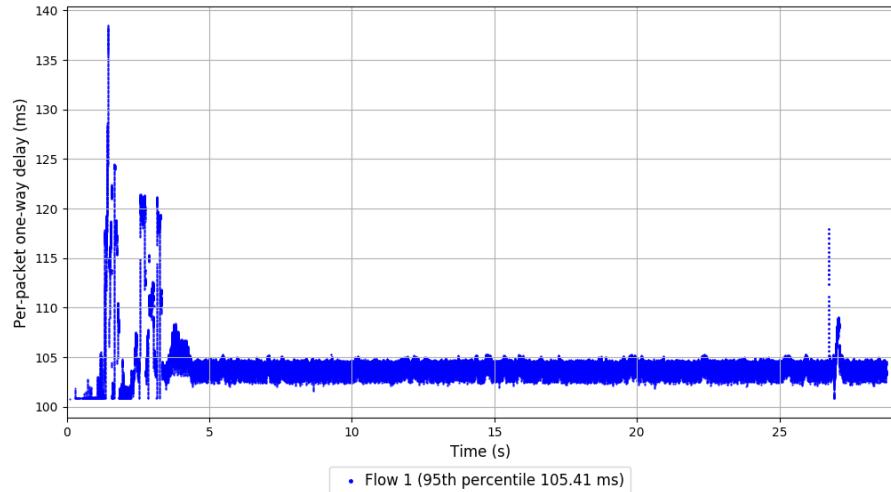
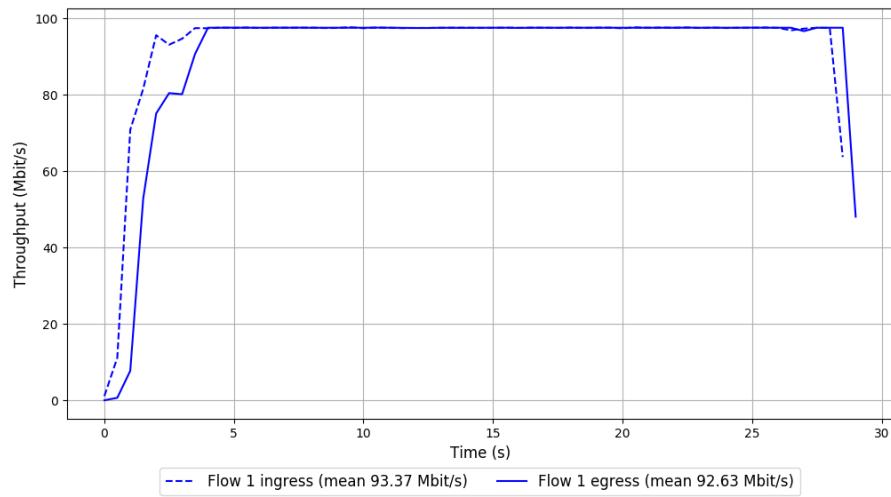


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 10:01:44
End at: 2019-03-19 10:02:14
Local clock offset: -7.093 ms
Remote clock offset: -0.271 ms

# Below is generated by plot.py at 2019-03-19 10:49:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.63 Mbit/s
95th percentile per-packet one-way delay: 105.413 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 92.63 Mbit/s
95th percentile per-packet one-way delay: 105.413 ms
Loss rate: 1.41%
```

Run 4: Report of Indigo-MusesD — Data Link

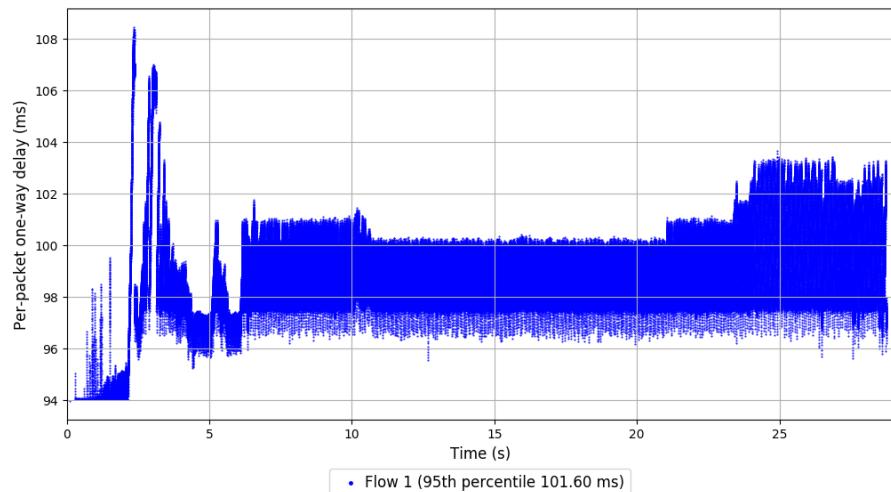
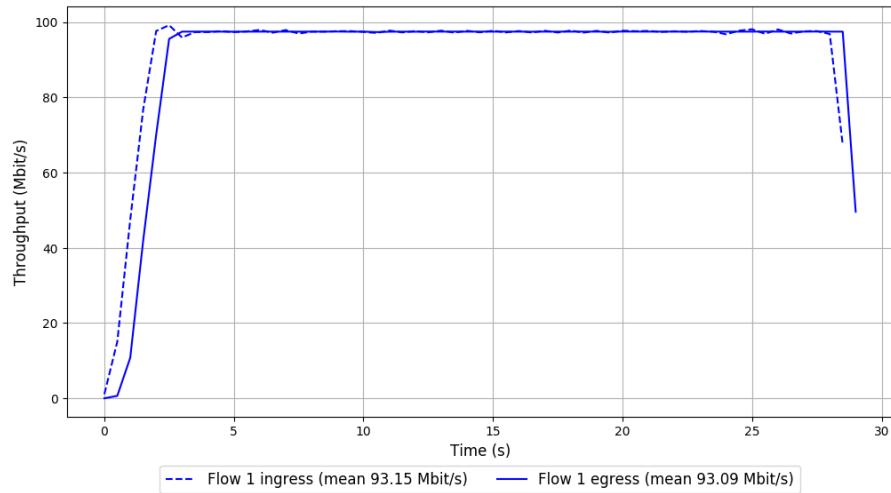


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 10:26:45
End at: 2019-03-19 10:27:15
Local clock offset: -7.158 ms
Remote clock offset: 5.661 ms

# Below is generated by plot.py at 2019-03-19 10:49:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.09 Mbit/s
95th percentile per-packet one-way delay: 101.597 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 93.09 Mbit/s
95th percentile per-packet one-way delay: 101.597 ms
Loss rate: 0.68%
```

Run 5: Report of Indigo-MusesD — Data Link

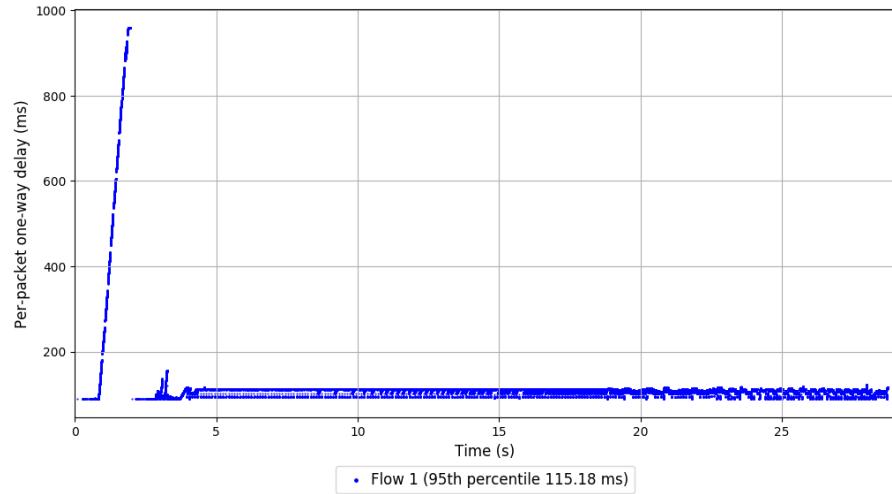
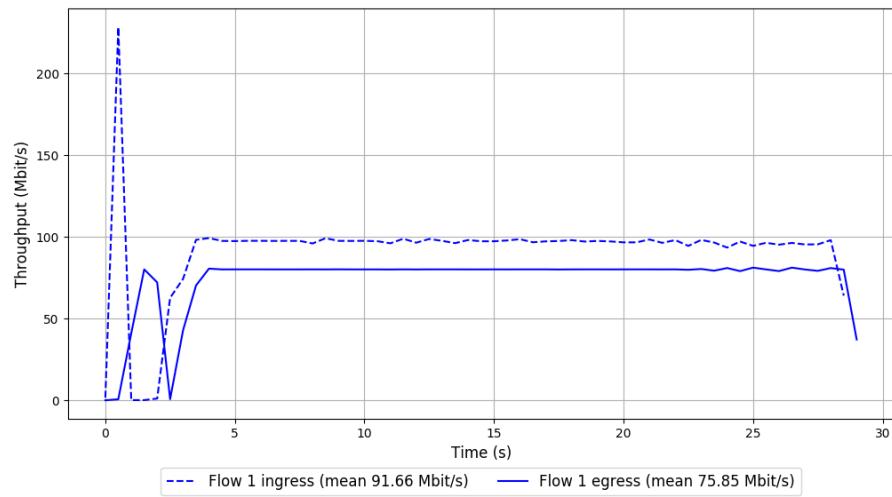


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 08:49:02
End at: 2019-03-19 08:49:32
Local clock offset: -8.758 ms
Remote clock offset: 9.105 ms

# Below is generated by plot.py at 2019-03-19 10:49:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.85 Mbit/s
95th percentile per-packet one-way delay: 115.181 ms
Loss rate: 17.74%
-- Flow 1:
Average throughput: 75.85 Mbit/s
95th percentile per-packet one-way delay: 115.181 ms
Loss rate: 17.74%
```

Run 1: Report of Indigo-MusesT — Data Link

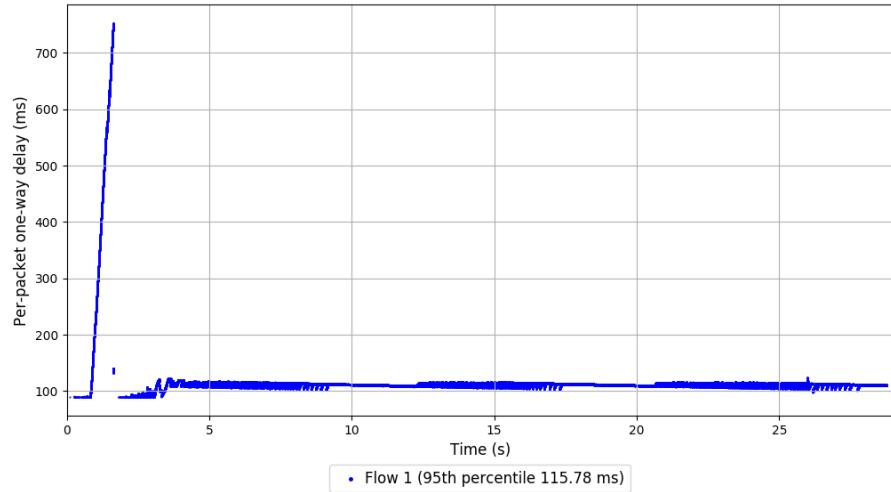
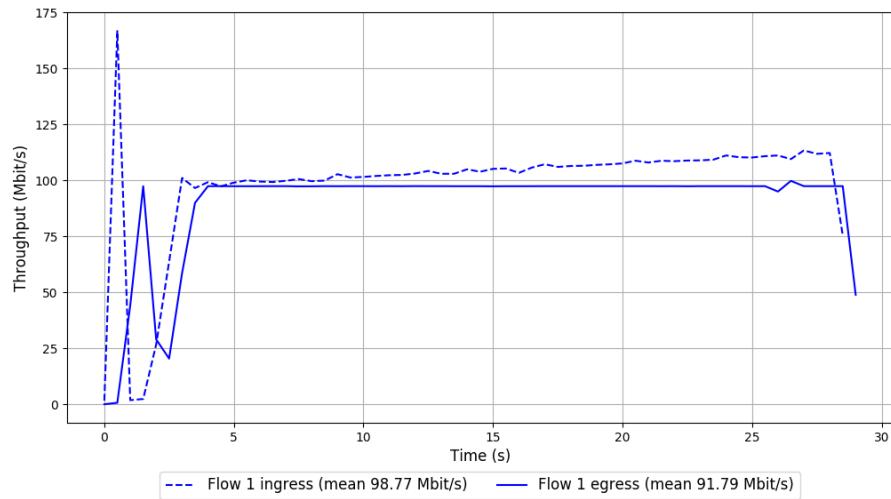


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 09:14:06
End at: 2019-03-19 09:14:36
Local clock offset: -9.293 ms
Remote clock offset: 5.702 ms

# Below is generated by plot.py at 2019-03-19 10:49:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.79 Mbit/s
95th percentile per-packet one-way delay: 115.785 ms
Loss rate: 7.63%
-- Flow 1:
Average throughput: 91.79 Mbit/s
95th percentile per-packet one-way delay: 115.785 ms
Loss rate: 7.63%
```

Run 2: Report of Indigo-MusesT — Data Link

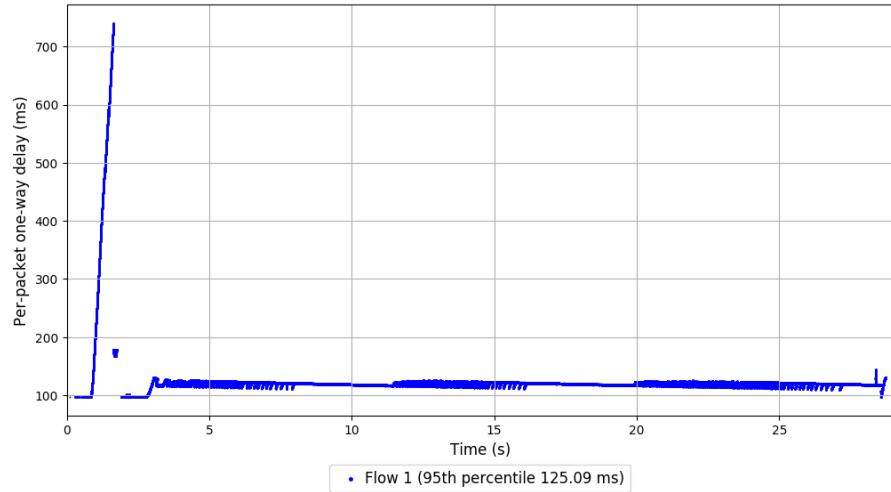
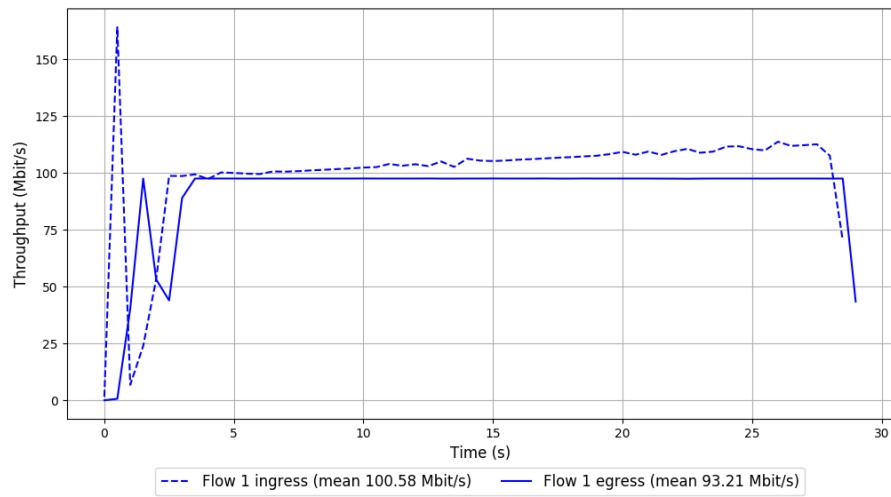


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 09:39:05
End at: 2019-03-19 09:39:35
Local clock offset: -7.117 ms
Remote clock offset: 2.056 ms

# Below is generated by plot.py at 2019-03-19 10:49:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.21 Mbit/s
95th percentile per-packet one-way delay: 125.095 ms
Loss rate: 7.90%
-- Flow 1:
Average throughput: 93.21 Mbit/s
95th percentile per-packet one-way delay: 125.095 ms
Loss rate: 7.90%
```

Run 3: Report of Indigo-MusesT — Data Link

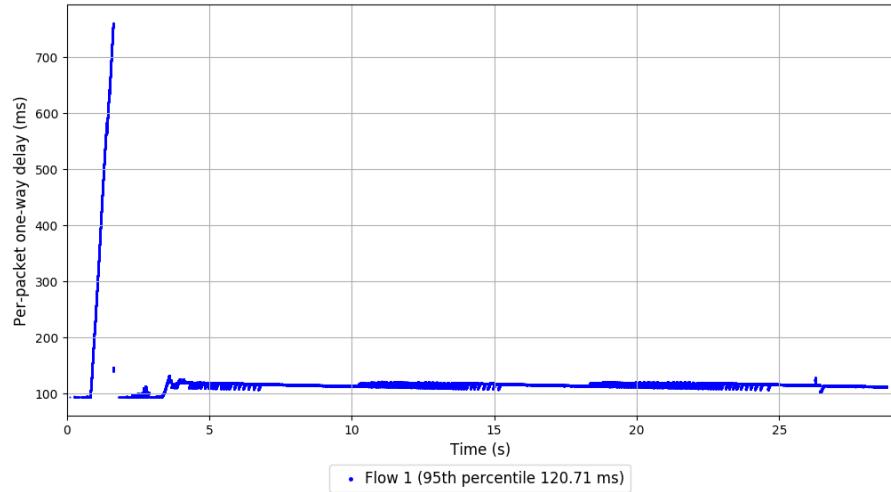
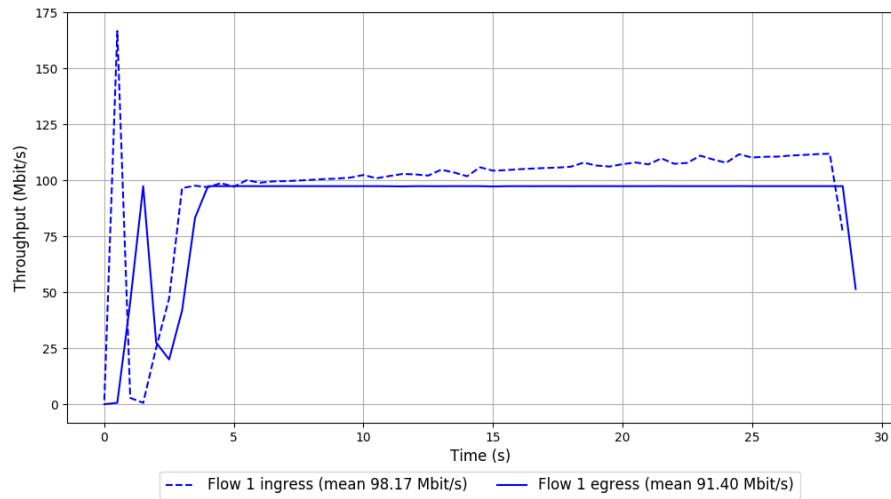


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 10:04:08
End at: 2019-03-19 10:04:38
Local clock offset: -7.023 ms
Remote clock offset: -0.526 ms

# Below is generated by plot.py at 2019-03-19 10:49:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.40 Mbit/s
95th percentile per-packet one-way delay: 120.709 ms
Loss rate: 7.46%
-- Flow 1:
Average throughput: 91.40 Mbit/s
95th percentile per-packet one-way delay: 120.709 ms
Loss rate: 7.46%
```

Run 4: Report of Indigo-MusesT — Data Link

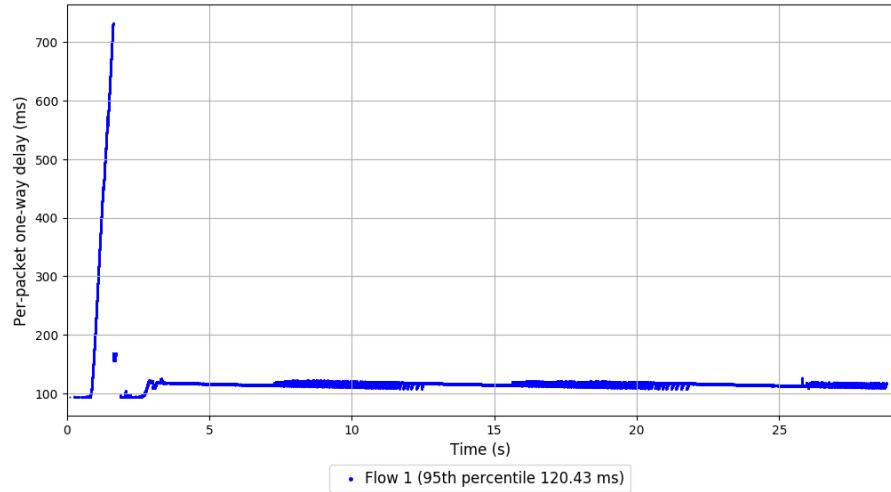
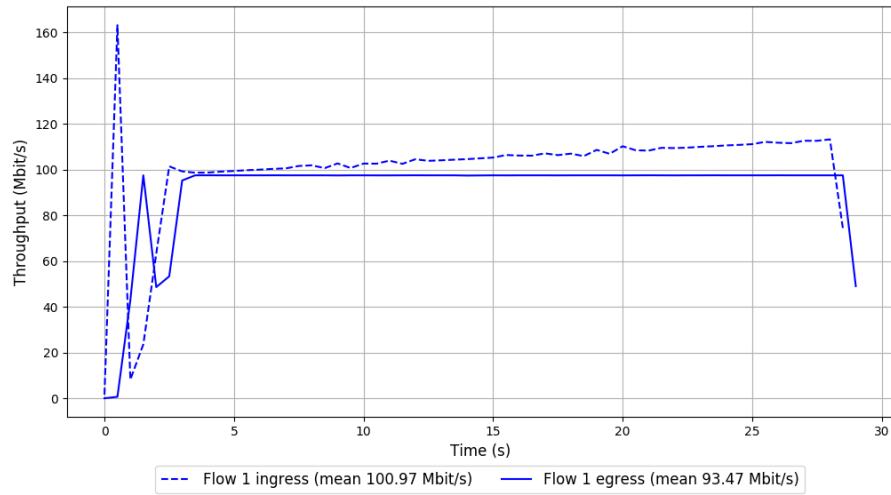


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 10:29:07
End at: 2019-03-19 10:29:37
Local clock offset: -6.246 ms
Remote clock offset: 0.545 ms

# Below is generated by plot.py at 2019-03-19 10:50:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.47 Mbit/s
95th percentile per-packet one-way delay: 120.428 ms
Loss rate: 7.99%
-- Flow 1:
Average throughput: 93.47 Mbit/s
95th percentile per-packet one-way delay: 120.428 ms
Loss rate: 7.99%
```

Run 5: Report of Indigo-MusesT — Data Link

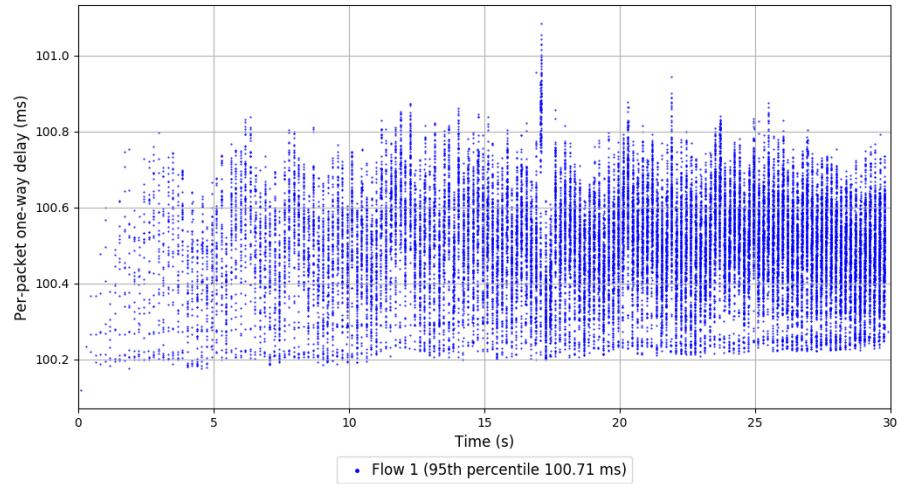
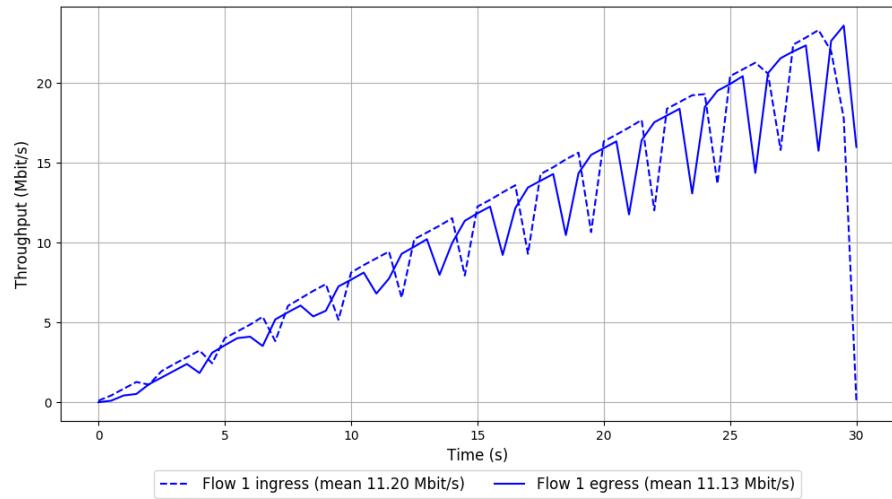


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-03-19 08:37:14
End at: 2019-03-19 08:37:44
Local clock offset: -8.187 ms
Remote clock offset: 3.575 ms

# Below is generated by plot.py at 2019-03-19 10:50:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 100.708 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 100.708 ms
Loss rate: 1.20%
```

Run 1: Report of LEDBAT — Data Link

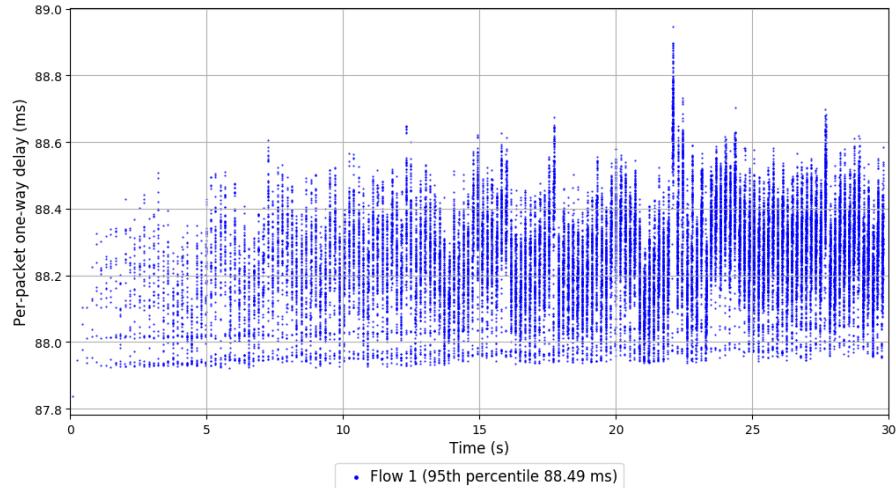
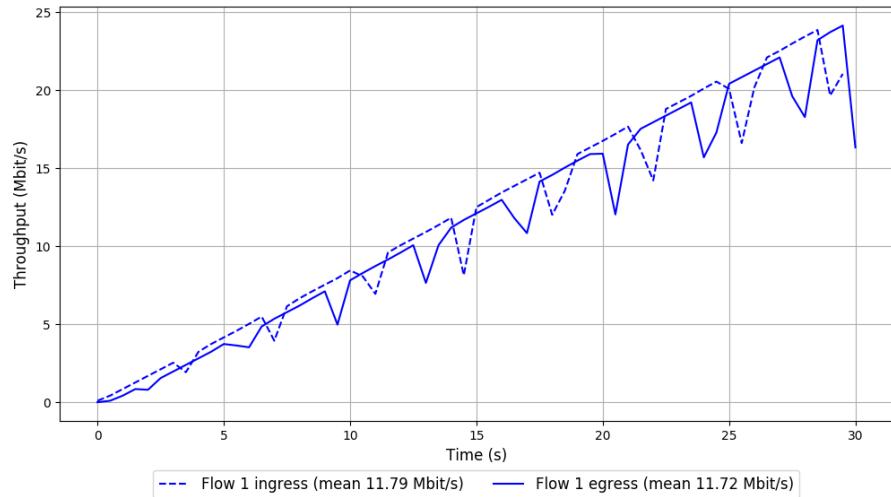


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-19 09:02:14
End at: 2019-03-19 09:02:44
Local clock offset: -8.884 ms
Remote clock offset: 11.185 ms

# Below is generated by plot.py at 2019-03-19 10:50:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 88.488 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 88.488 ms
Loss rate: 1.17%
```

Run 2: Report of LEDBAT — Data Link

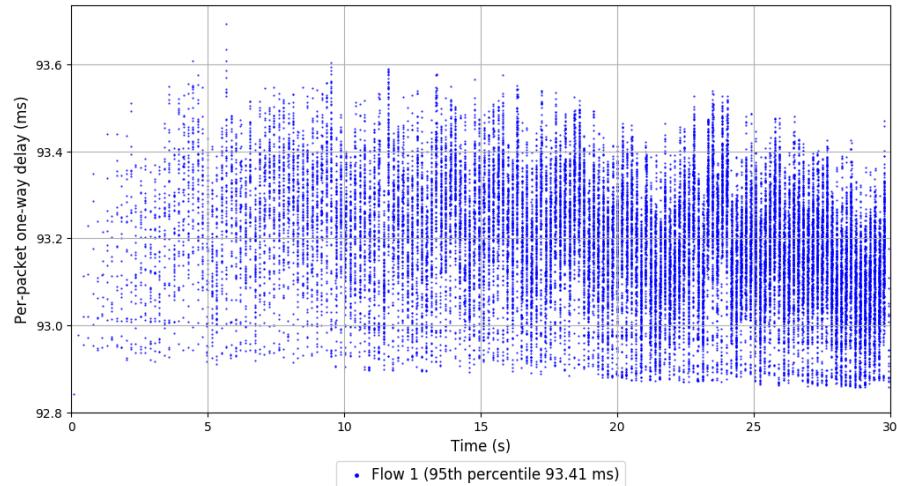
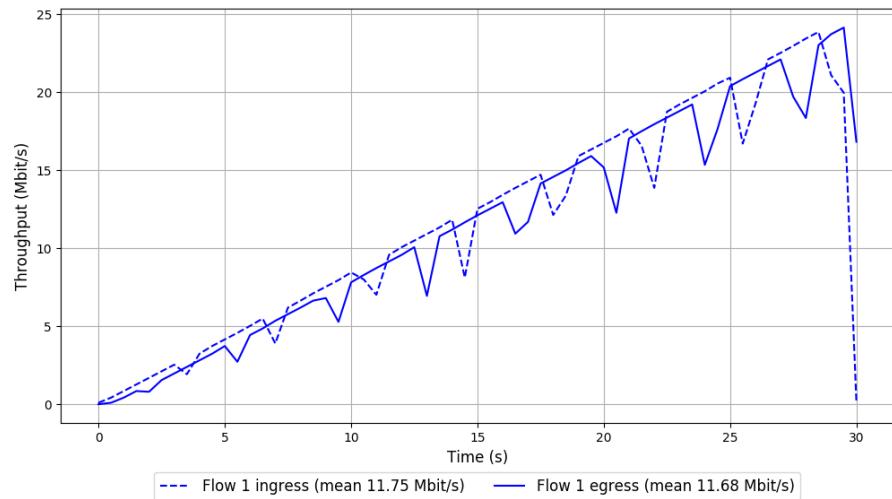


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-19 09:27:17
End at: 2019-03-19 09:27:47
Local clock offset: -8.091 ms
Remote clock offset: 0.436 ms

# Below is generated by plot.py at 2019-03-19 10:50:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 93.409 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 93.409 ms
Loss rate: 1.17%
```

Run 3: Report of LEDBAT — Data Link

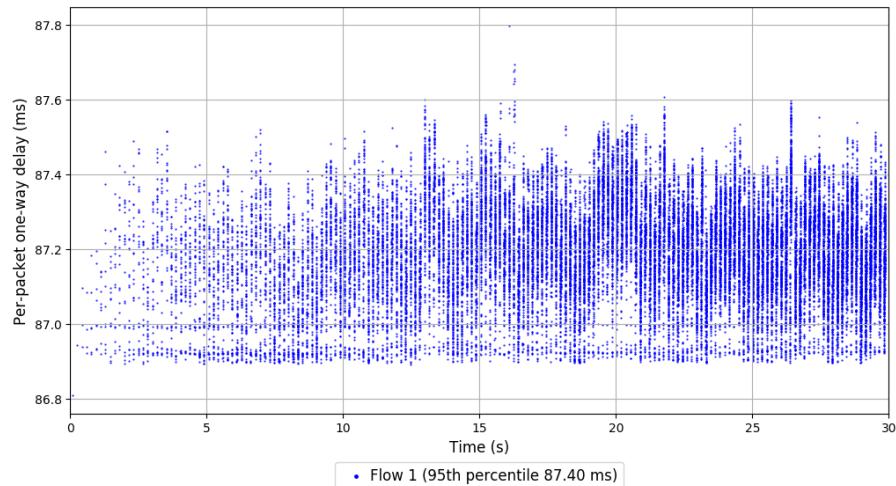
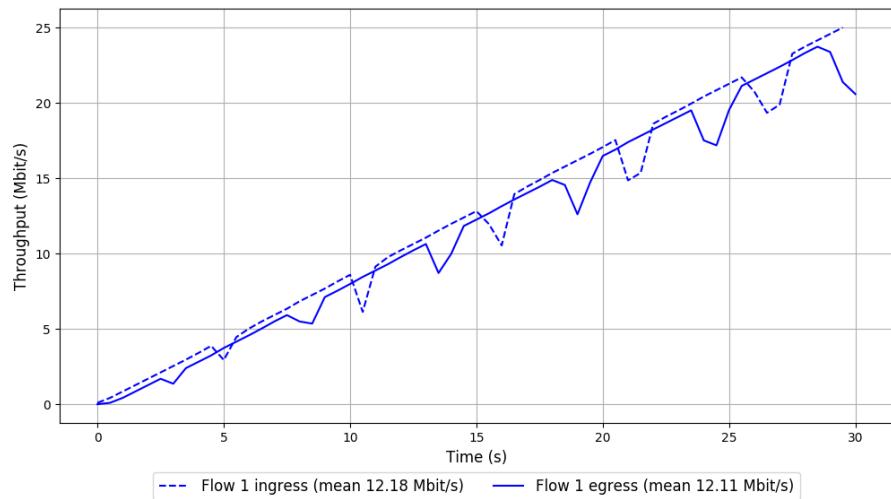


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-19 09:52:18
End at: 2019-03-19 09:52:48
Local clock offset: -7.785 ms
Remote clock offset: 5.91 ms

# Below is generated by plot.py at 2019-03-19 10:50:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.11 Mbit/s
95th percentile per-packet one-way delay: 87.403 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.11 Mbit/s
95th percentile per-packet one-way delay: 87.403 ms
Loss rate: 1.15%
```

Run 4: Report of LEDBAT — Data Link

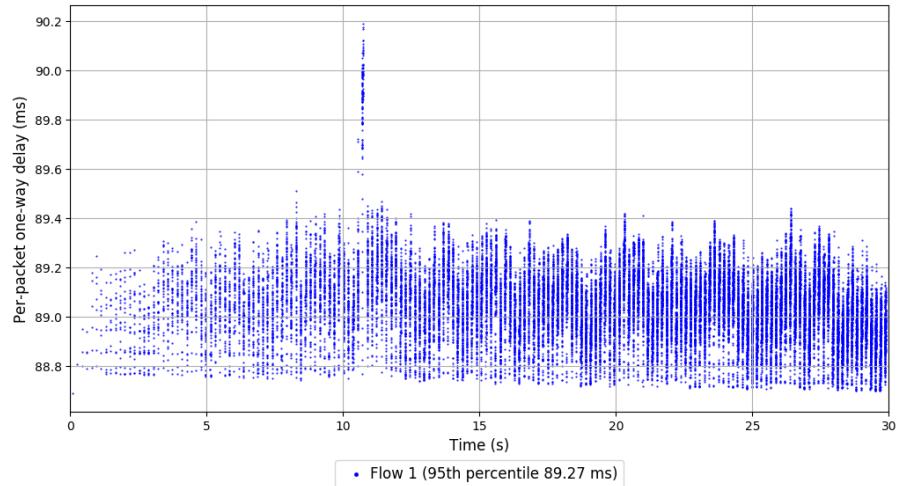
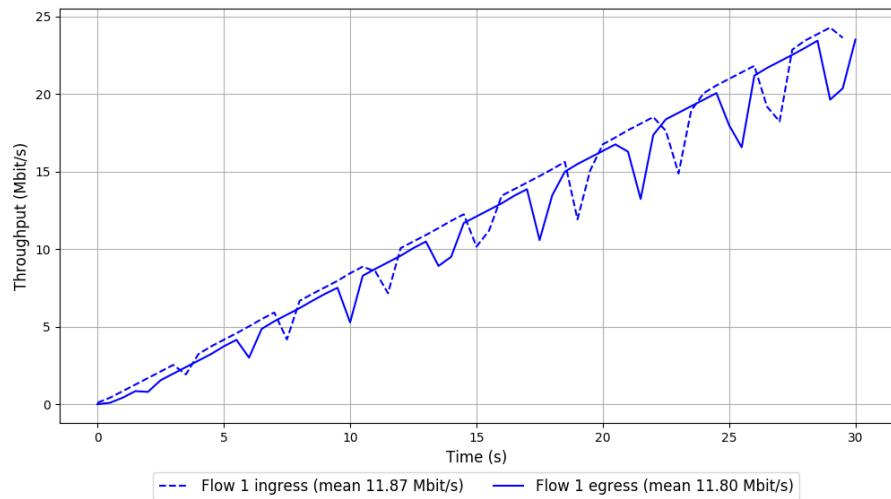


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-19 10:17:19
End at: 2019-03-19 10:17:49
Local clock offset: -7.752 ms
Remote clock offset: 4.71 ms

# Below is generated by plot.py at 2019-03-19 10:50:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 89.268 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 89.268 ms
Loss rate: 1.16%
```

Run 5: Report of LEDBAT — Data Link

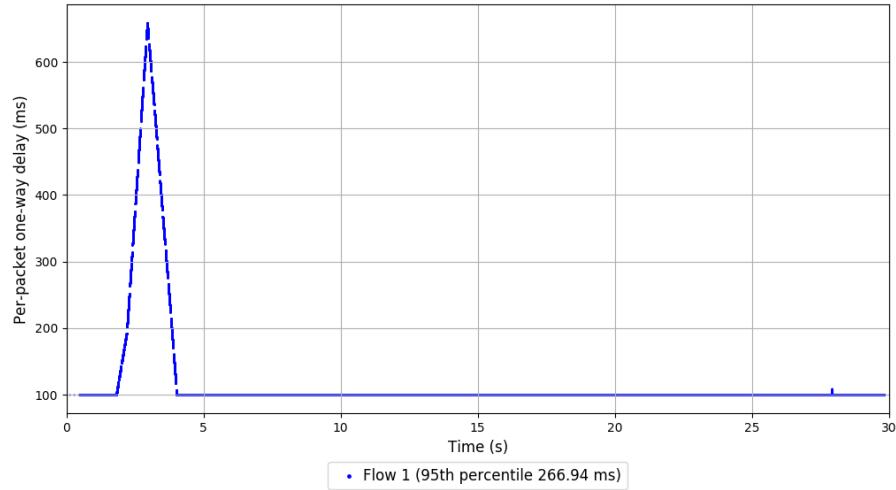
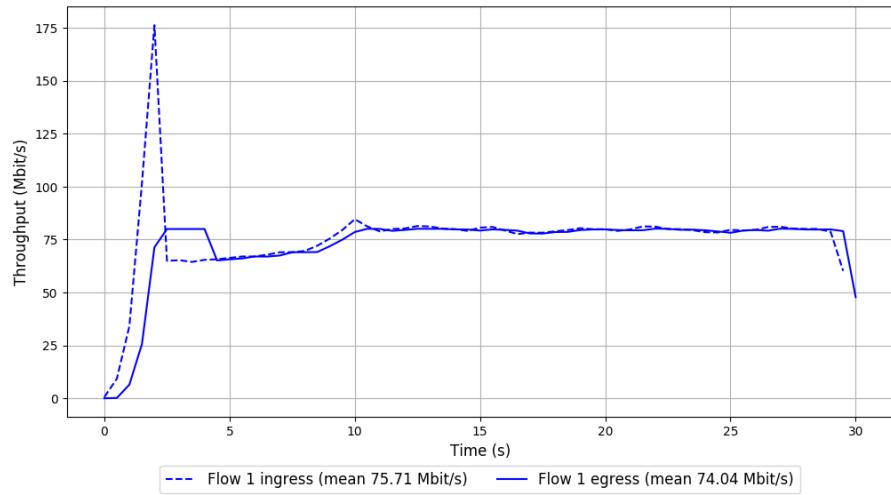


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-03-19 08:47:52
End at: 2019-03-19 08:48:22
Local clock offset: -8.806 ms
Remote clock offset: 4.023 ms

# Below is generated by plot.py at 2019-03-19 10:50:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.04 Mbit/s
95th percentile per-packet one-way delay: 266.935 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 74.04 Mbit/s
95th percentile per-packet one-way delay: 266.935 ms
Loss rate: 2.79%
```

Run 1: Report of PCC-Allegro — Data Link

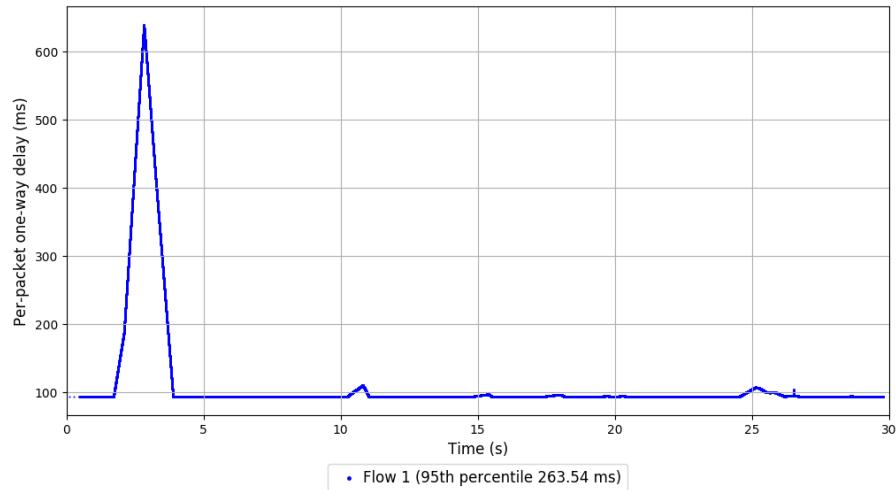
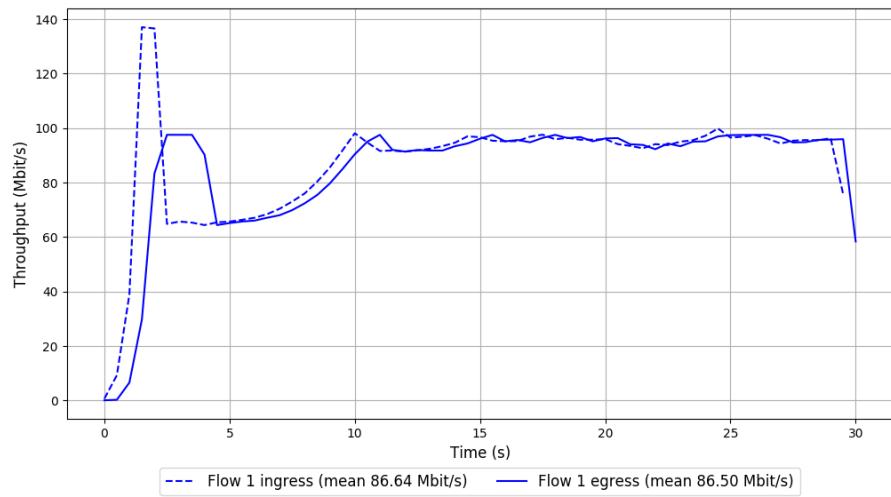


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-19 09:12:54
End at: 2019-03-19 09:13:24
Local clock offset: -9.248 ms
Remote clock offset: 7.122 ms

# Below is generated by plot.py at 2019-03-19 10:50:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 263.539 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 263.539 ms
Loss rate: 0.77%
```

Run 2: Report of PCC-Allegro — Data Link

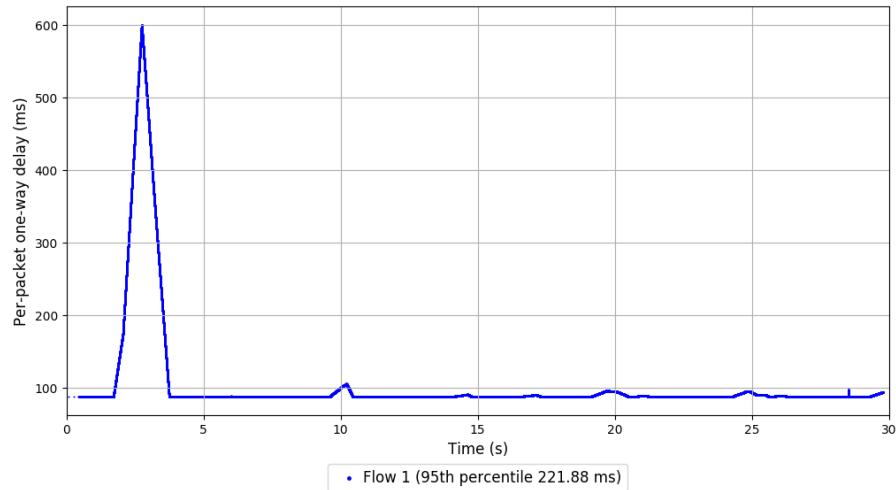
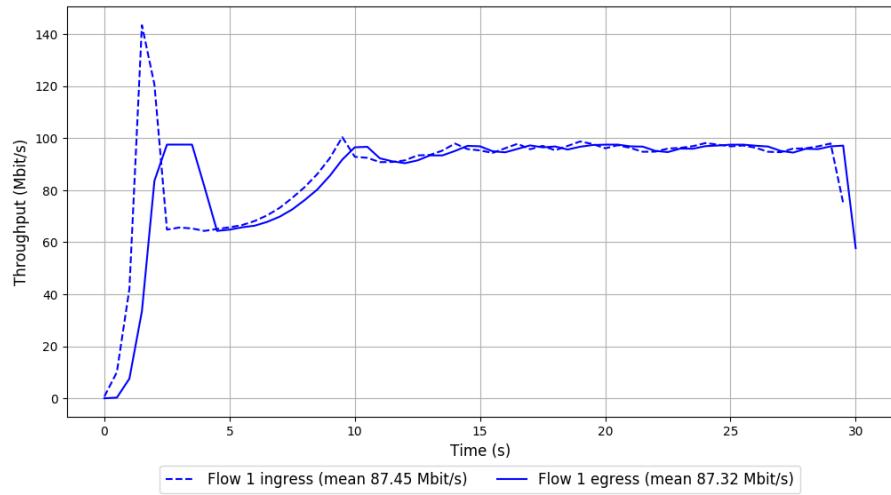


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-19 09:37:54
End at: 2019-03-19 09:38:24
Local clock offset: -7.866 ms
Remote clock offset: 4.47 ms

# Below is generated by plot.py at 2019-03-19 10:50:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.32 Mbit/s
95th percentile per-packet one-way delay: 221.877 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 87.32 Mbit/s
95th percentile per-packet one-way delay: 221.877 ms
Loss rate: 0.74%
```

Run 3: Report of PCC-Allegro — Data Link

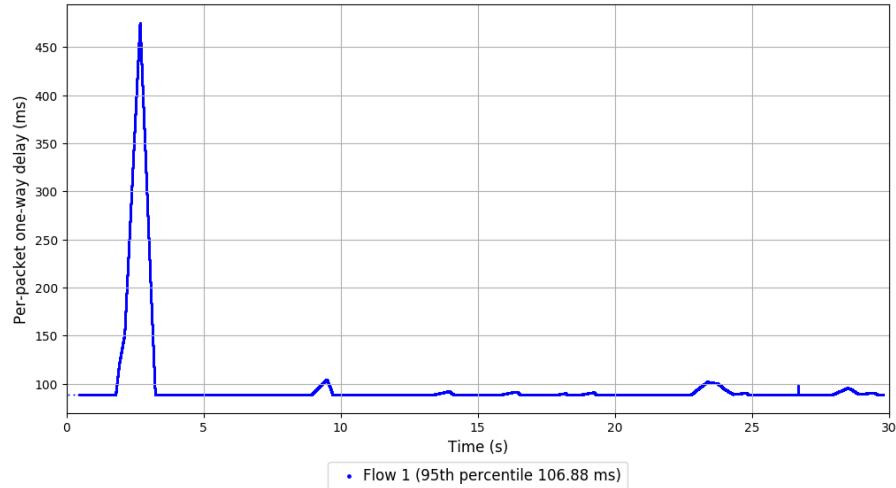
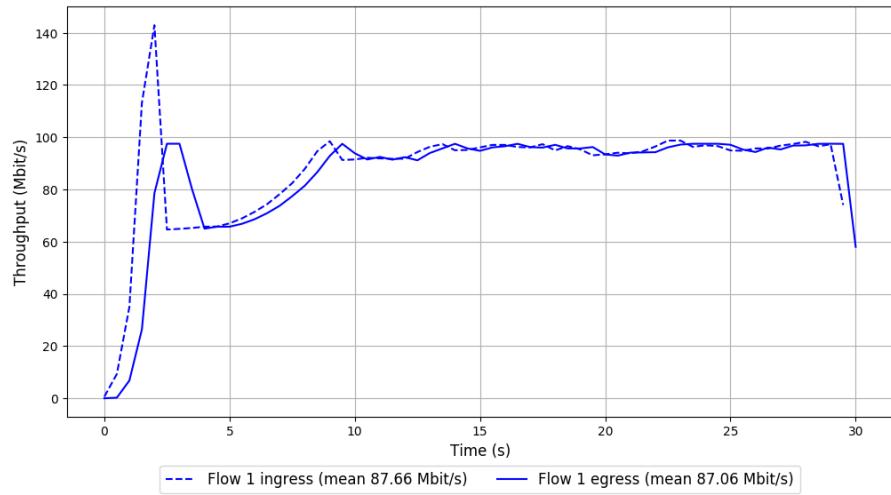


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-19 10:02:57
End at: 2019-03-19 10:03:27
Local clock offset: -7.861 ms
Remote clock offset: 4.665 ms

# Below is generated by plot.py at 2019-03-19 10:50:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.06 Mbit/s
95th percentile per-packet one-way delay: 106.884 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 87.06 Mbit/s
95th percentile per-packet one-way delay: 106.884 ms
Loss rate: 1.26%
```

Run 4: Report of PCC-Allegro — Data Link

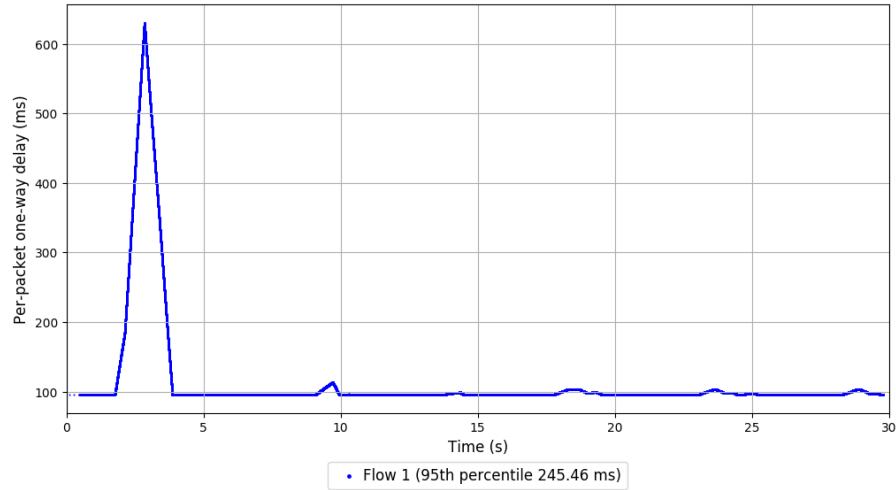
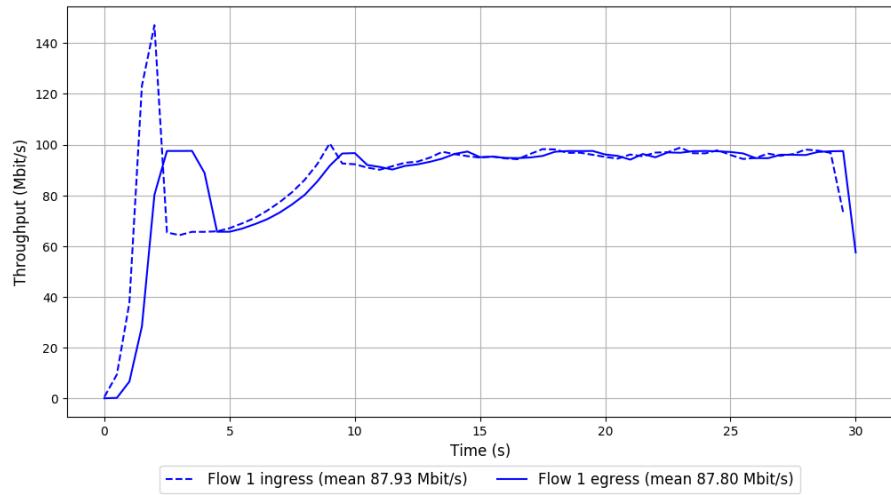


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-19 10:27:56
End at: 2019-03-19 10:28:26
Local clock offset: -7.096 ms
Remote clock offset: 3.37 ms

# Below is generated by plot.py at 2019-03-19 10:50:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.80 Mbit/s
95th percentile per-packet one-way delay: 245.457 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 87.80 Mbit/s
95th percentile per-packet one-way delay: 245.457 ms
Loss rate: 0.75%
```

Run 5: Report of PCC-Allegro — Data Link

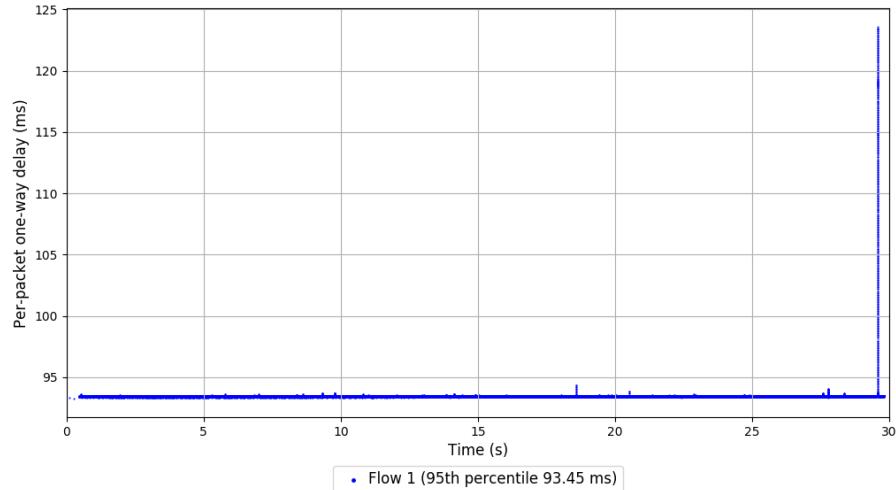
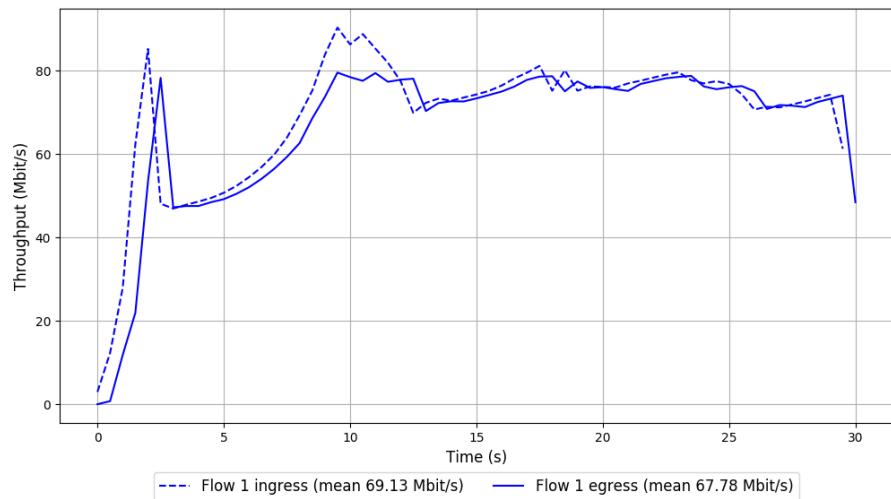


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-03-19 08:51:25
End at: 2019-03-19 08:51:55
Local clock offset: -8.007 ms
Remote clock offset: 5.351 ms

# Below is generated by plot.py at 2019-03-19 10:51:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.78 Mbit/s
95th percentile per-packet one-way delay: 93.450 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 67.78 Mbit/s
95th percentile per-packet one-way delay: 93.450 ms
Loss rate: 2.52%
```

Run 1: Report of PCC-Expr — Data Link

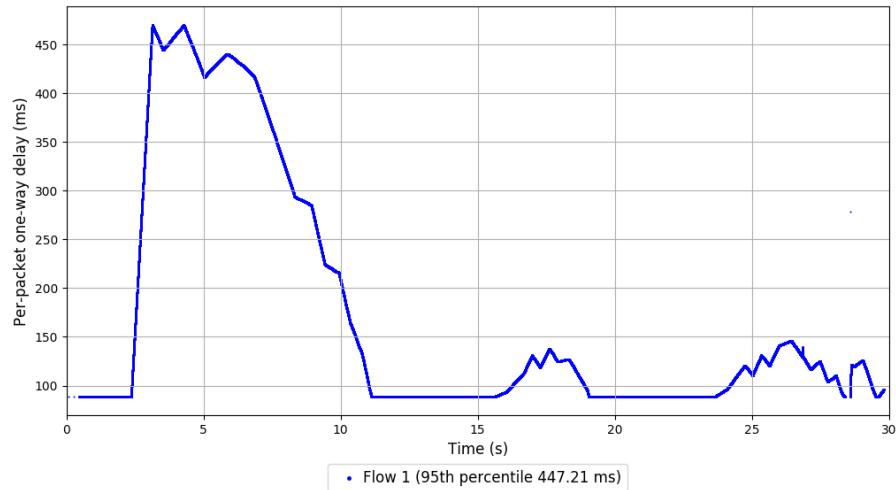
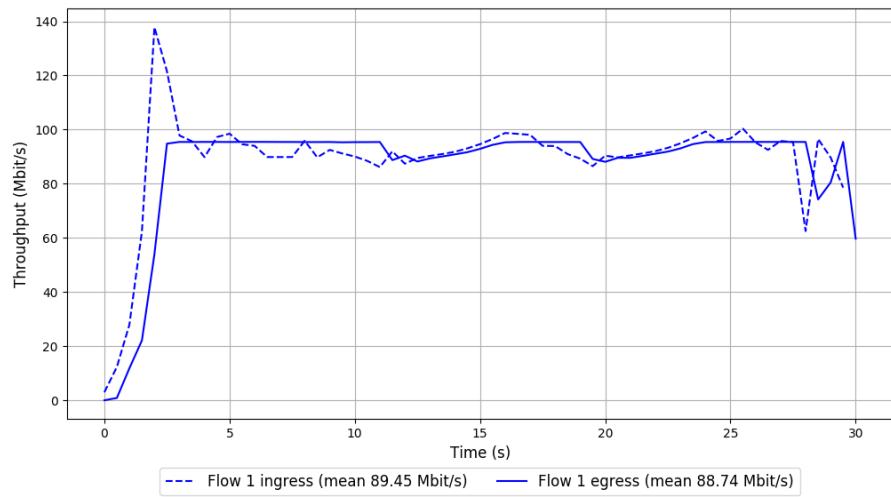


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-19 09:16:30
End at: 2019-03-19 09:17:00
Local clock offset: -9.352 ms
Remote clock offset: 5.528 ms

# Below is generated by plot.py at 2019-03-19 10:51:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 447.213 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 447.213 ms
Loss rate: 1.37%
```

Run 2: Report of PCC-Expr — Data Link

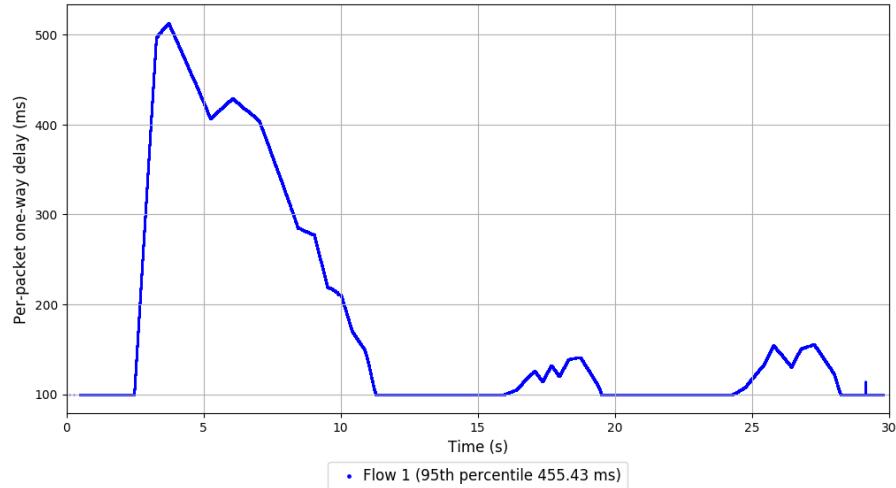
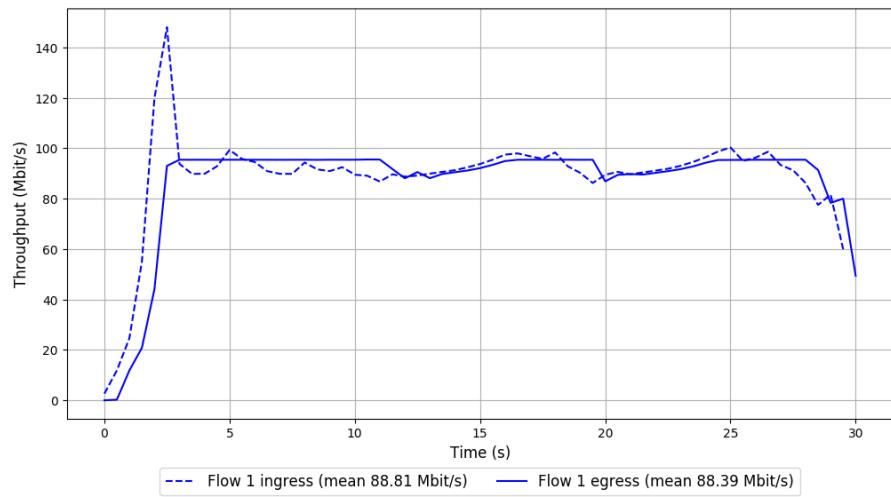


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-19 09:41:29
End at: 2019-03-19 09:41:59
Local clock offset: -7.882 ms
Remote clock offset: -1.136 ms

# Below is generated by plot.py at 2019-03-19 10:52:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.39 Mbit/s
95th percentile per-packet one-way delay: 455.429 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 88.39 Mbit/s
95th percentile per-packet one-way delay: 455.429 ms
Loss rate: 1.08%
```

Run 3: Report of PCC-Expr — Data Link

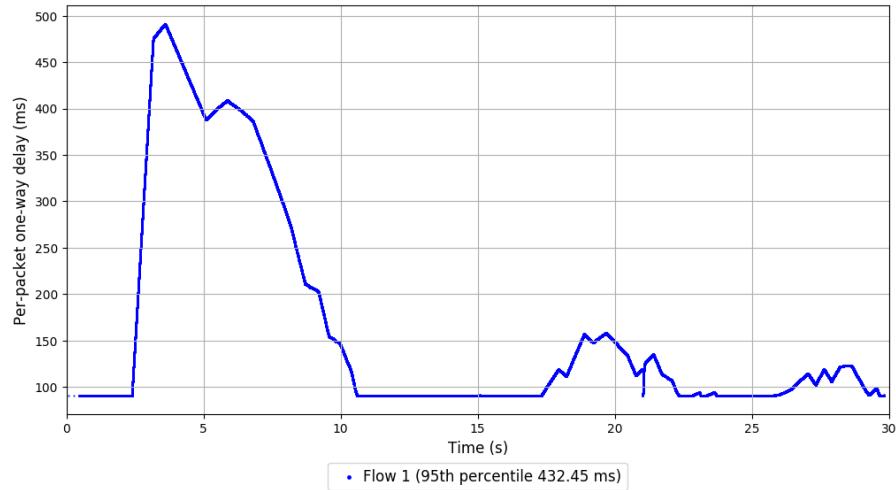
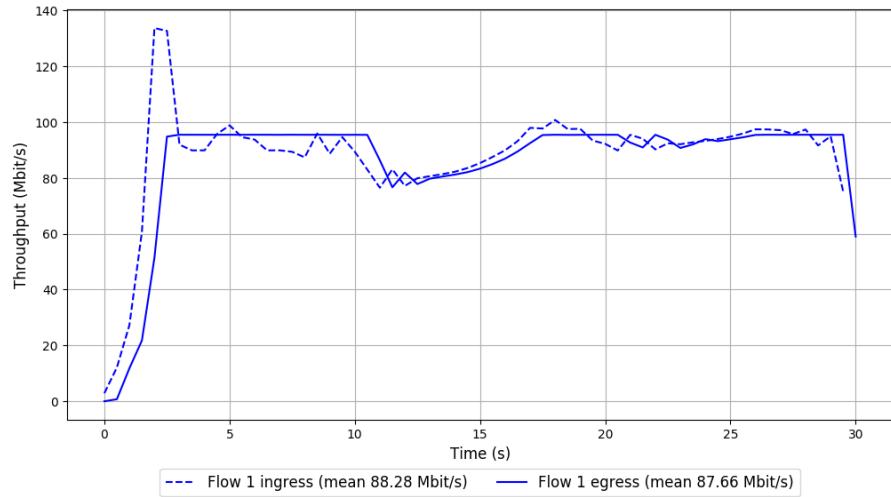


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-19 10:06:33
End at: 2019-03-19 10:07:03
Local clock offset: -7.047 ms
Remote clock offset: 3.628 ms

# Below is generated by plot.py at 2019-03-19 10:52:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.66 Mbit/s
95th percentile per-packet one-way delay: 432.448 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 87.66 Mbit/s
95th percentile per-packet one-way delay: 432.448 ms
Loss rate: 1.28%
```

Run 4: Report of PCC-Expr — Data Link

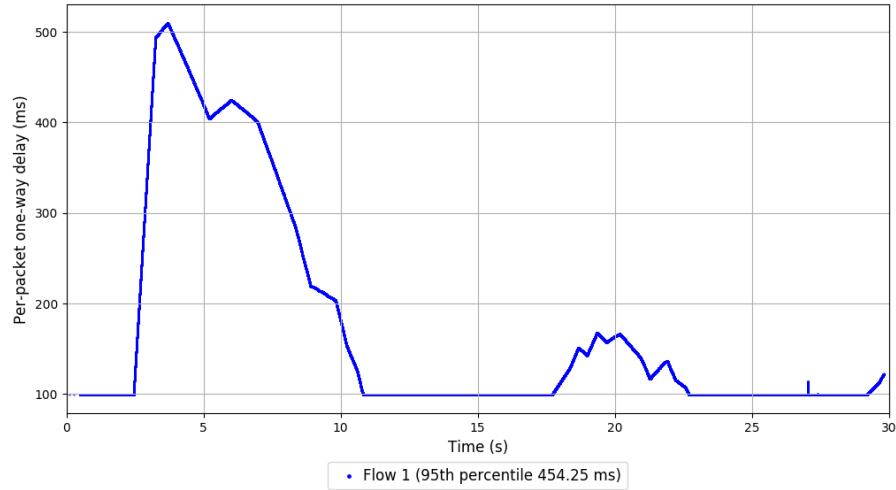
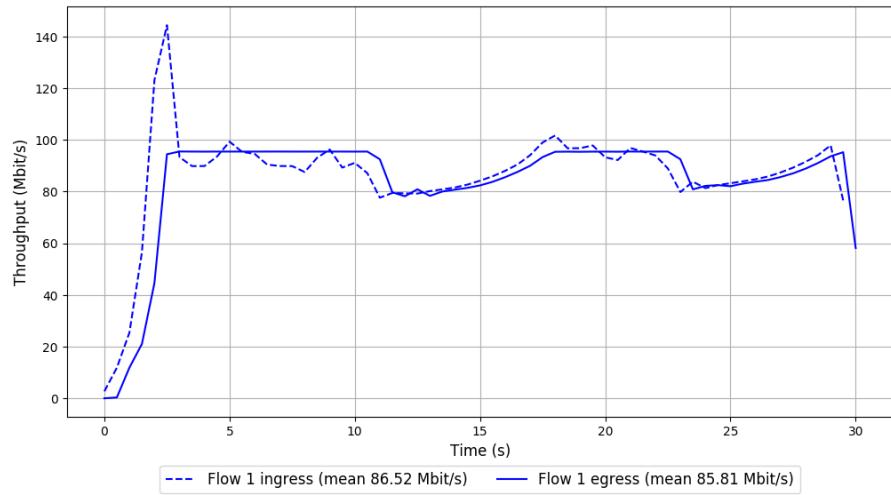


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-19 10:31:31
End at: 2019-03-19 10:32:01
Local clock offset: -6.931 ms
Remote clock offset: 0.451 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.81 Mbit/s
95th percentile per-packet one-way delay: 454.250 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 85.81 Mbit/s
95th percentile per-packet one-way delay: 454.250 ms
Loss rate: 1.41%
```

Run 5: Report of PCC-Expr — Data Link

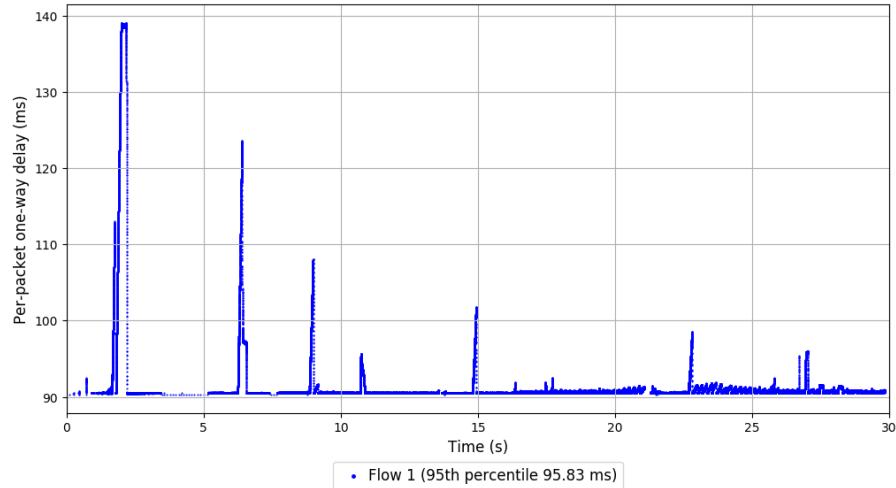
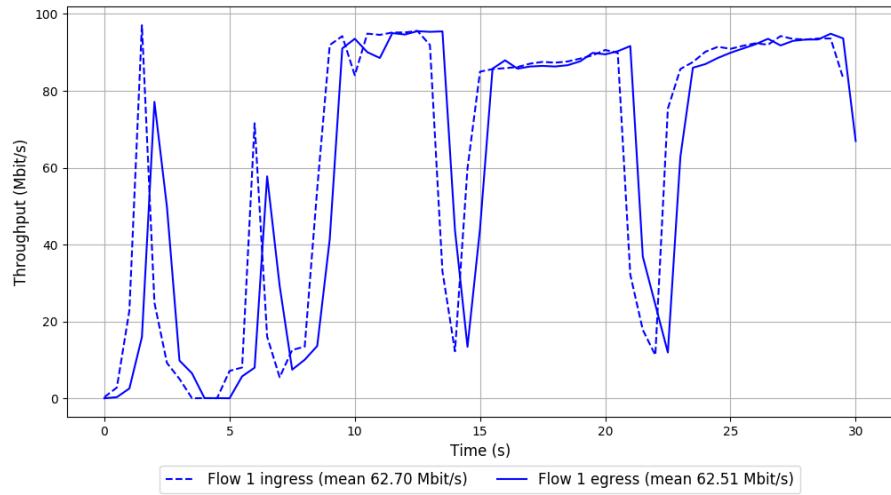


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-03-19 08:41:59
End at: 2019-03-19 08:42:29
Local clock offset: -8.563 ms
Remote clock offset: 7.459 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.51 Mbit/s
95th percentile per-packet one-way delay: 95.831 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 62.51 Mbit/s
95th percentile per-packet one-way delay: 95.831 ms
Loss rate: 0.88%
```

Run 1: Report of QUIC Cubic — Data Link

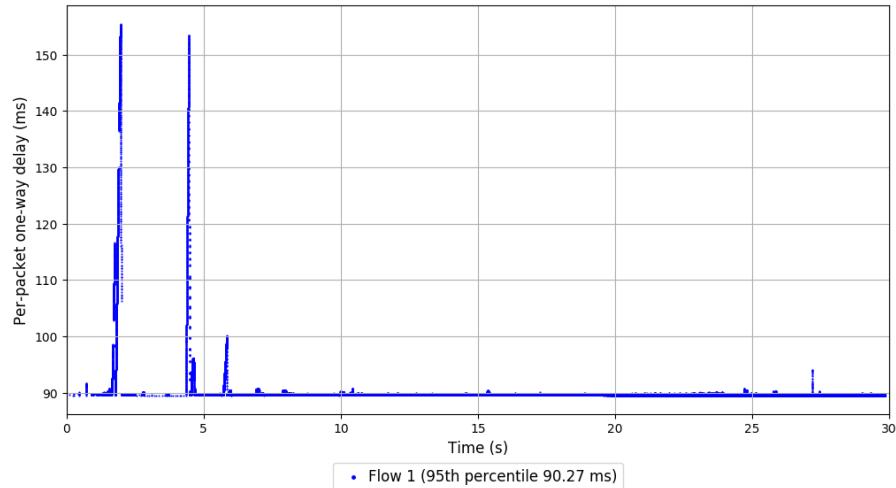
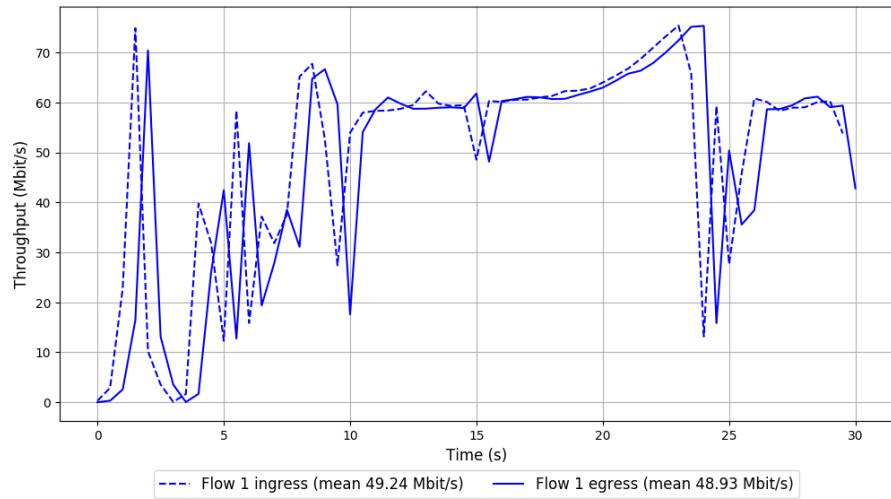


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-19 09:07:01
End at: 2019-03-19 09:07:31
Local clock offset: -8.273 ms
Remote clock offset: 8.13 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.93 Mbit/s
95th percentile per-packet one-way delay: 90.272 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 48.93 Mbit/s
95th percentile per-packet one-way delay: 90.272 ms
Loss rate: 1.22%
```

Run 2: Report of QUIC Cubic — Data Link

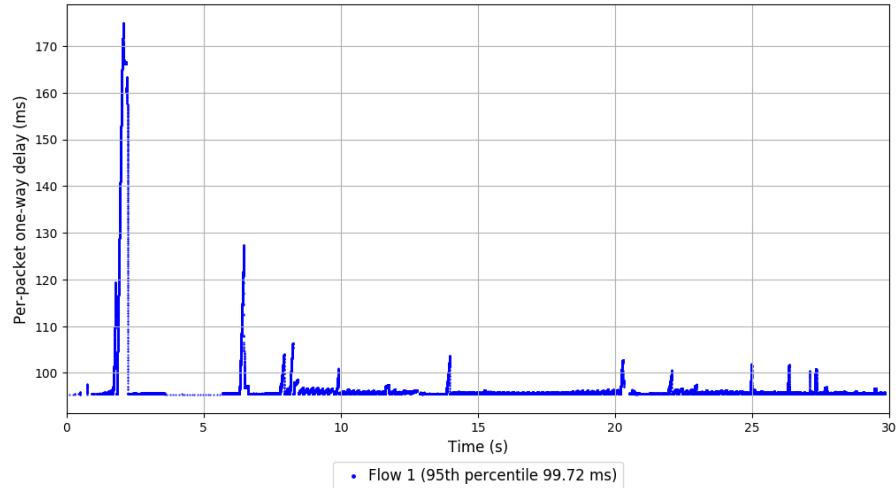
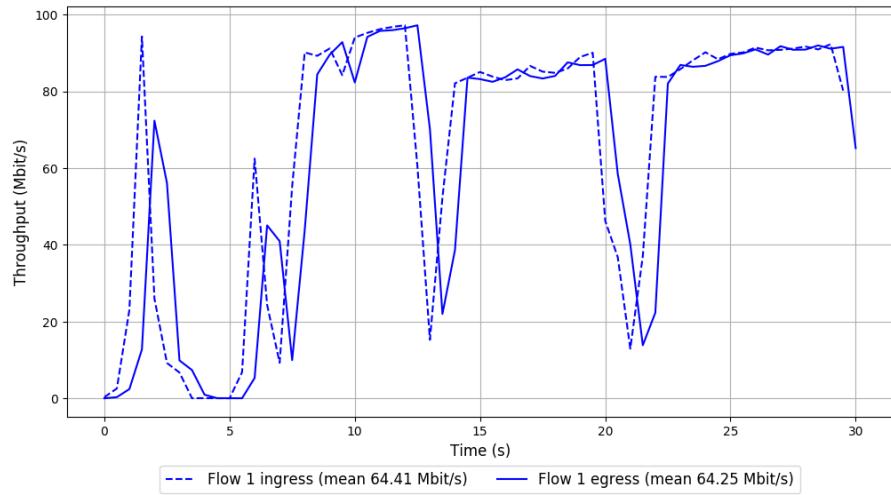


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-19 09:32:02
End at: 2019-03-19 09:32:32
Local clock offset: -7.175 ms
Remote clock offset: 3.763 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.25 Mbit/s
95th percentile per-packet one-way delay: 99.722 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 64.25 Mbit/s
95th percentile per-packet one-way delay: 99.722 ms
Loss rate: 0.86%
```

Run 3: Report of QUIC Cubic — Data Link

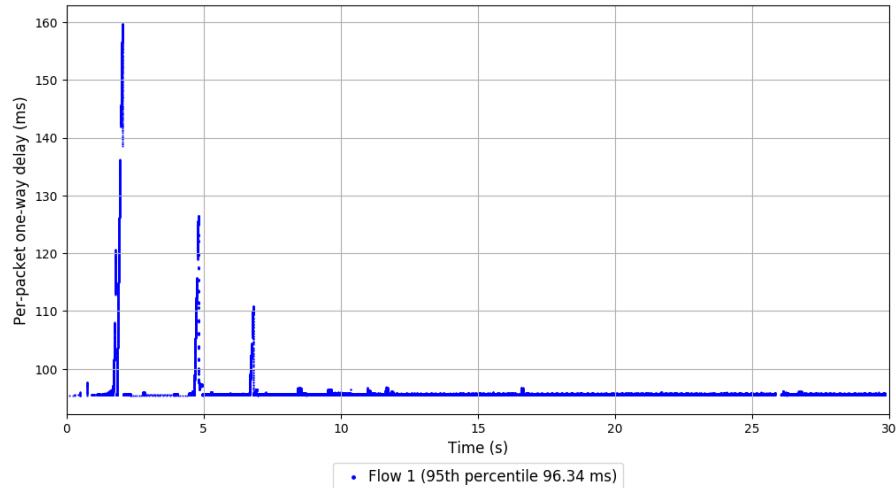
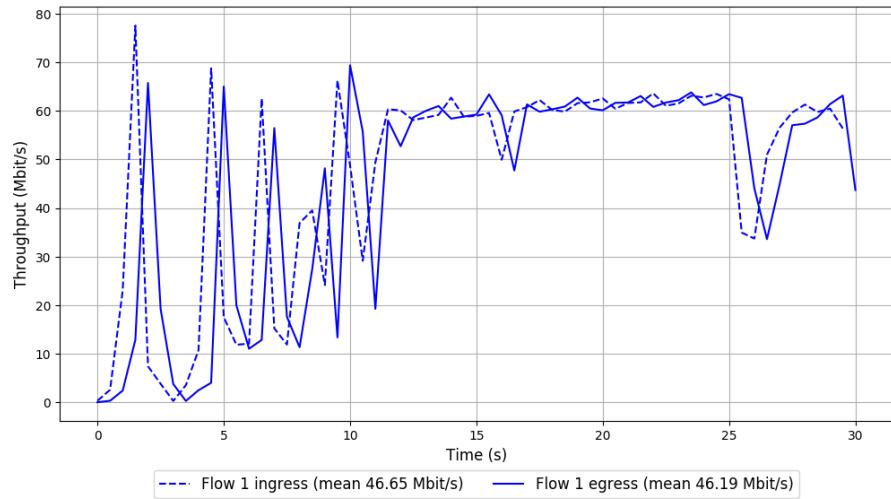


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-19 09:57:04
End at: 2019-03-19 09:57:34
Local clock offset: -7.009 ms
Remote clock offset: 4.556 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.19 Mbit/s
95th percentile per-packet one-way delay: 96.343 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 46.19 Mbit/s
95th percentile per-packet one-way delay: 96.343 ms
Loss rate: 1.59%
```

Run 4: Report of QUIC Cubic — Data Link

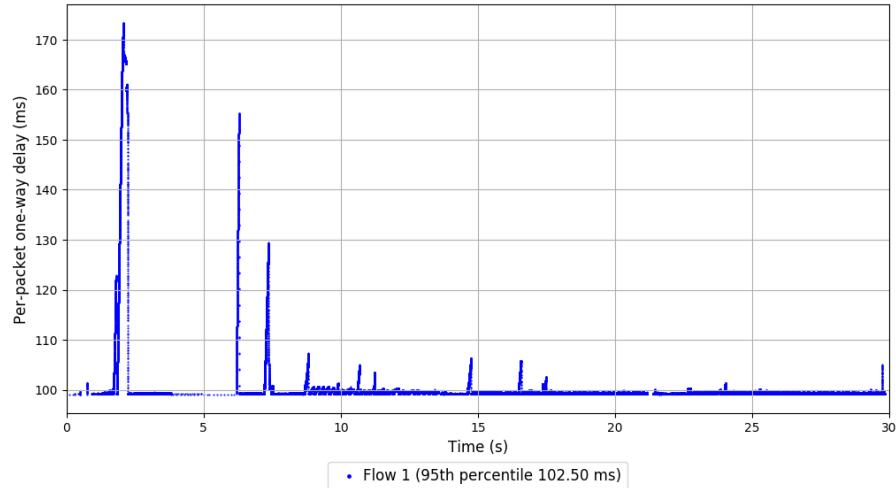
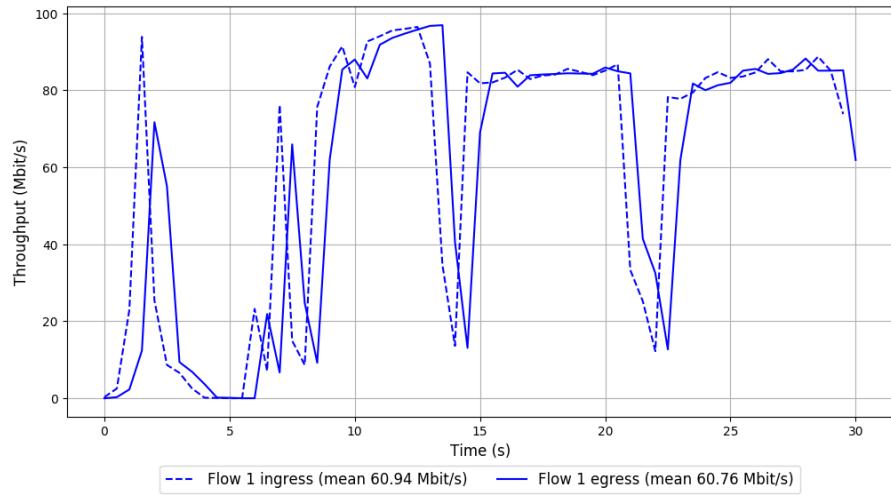


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-19 10:22:04
End at: 2019-03-19 10:22:34
Local clock offset: -6.582 ms
Remote clock offset: 0.815 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.76 Mbit/s
95th percentile per-packet one-way delay: 102.505 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 60.76 Mbit/s
95th percentile per-packet one-way delay: 102.505 ms
Loss rate: 0.89%
```

Run 5: Report of QUIC Cubic — Data Link

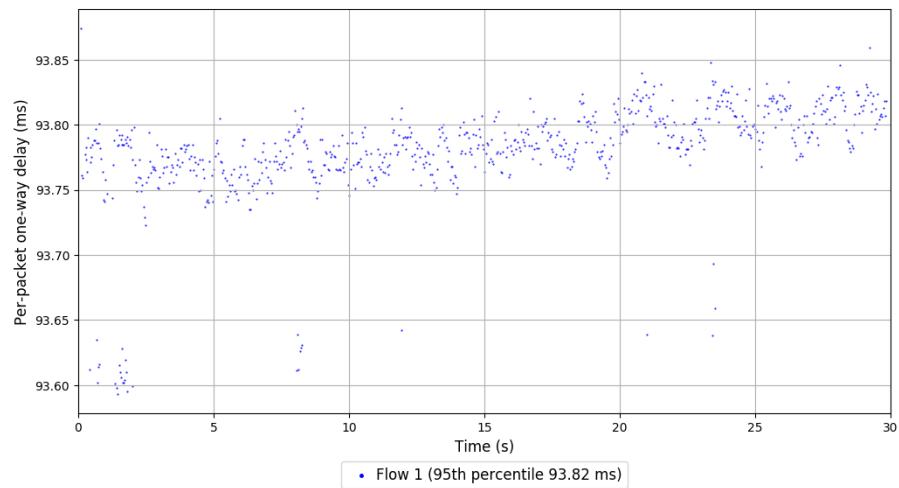
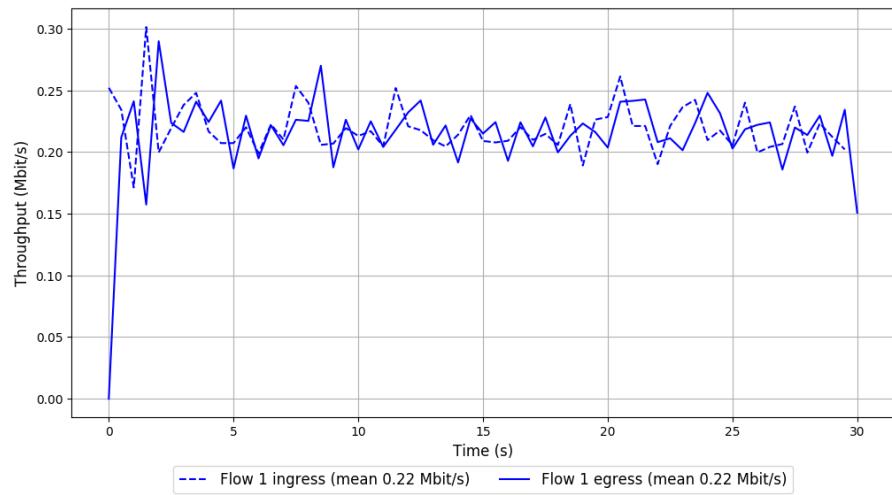


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-03-19 08:36:06
End at: 2019-03-19 08:36:36
Local clock offset: -8.142 ms
Remote clock offset: 3.493 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.823 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.823 ms
Loss rate: 0.64%
```

Run 1: Report of SCReAM — Data Link

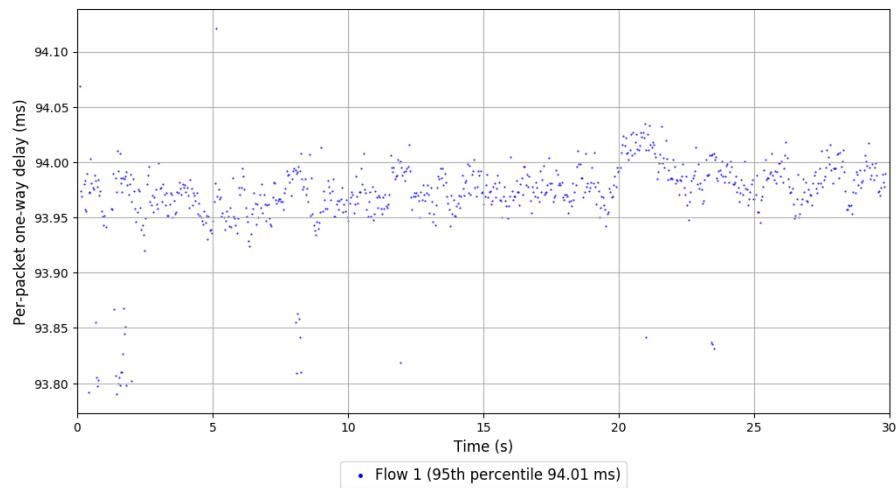
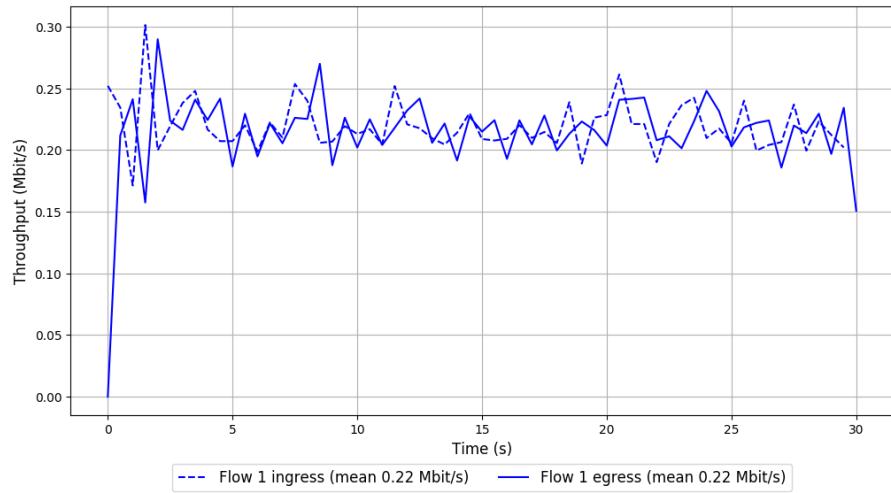


Run 2: Statistics of SCReAM

```
Start at: 2019-03-19 09:01:07
End at: 2019-03-19 09:01:37
Local clock offset: -8.089 ms
Remote clock offset: 4.86 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.010 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.010 ms
Loss rate: 0.64%
```

Run 2: Report of SCReAM — Data Link

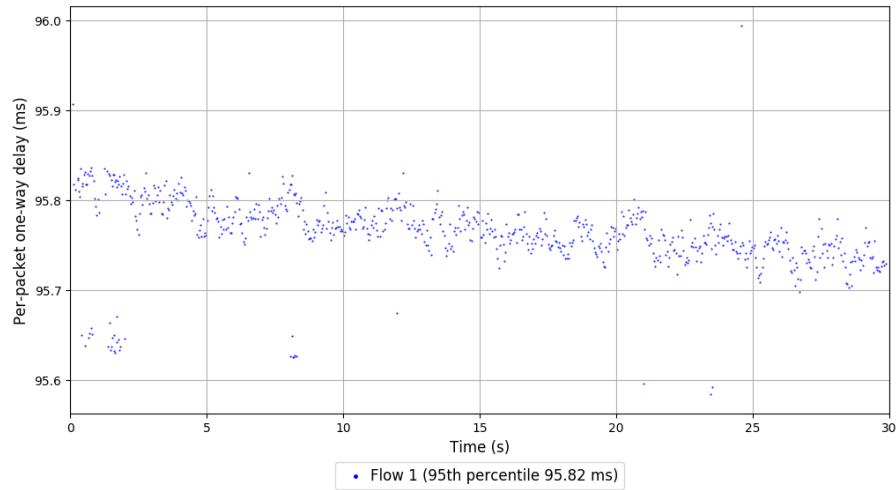
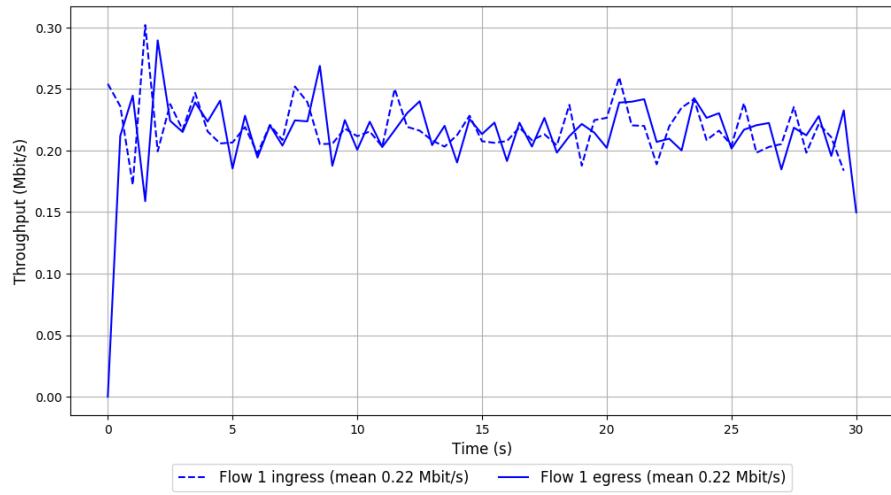


Run 3: Statistics of SCReAM

```
Start at: 2019-03-19 09:26:09
End at: 2019-03-19 09:26:39
Local clock offset: -8.146 ms
Remote clock offset: 3.119 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.818 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.818 ms
Loss rate: 0.51%
```

Run 3: Report of SCReAM — Data Link

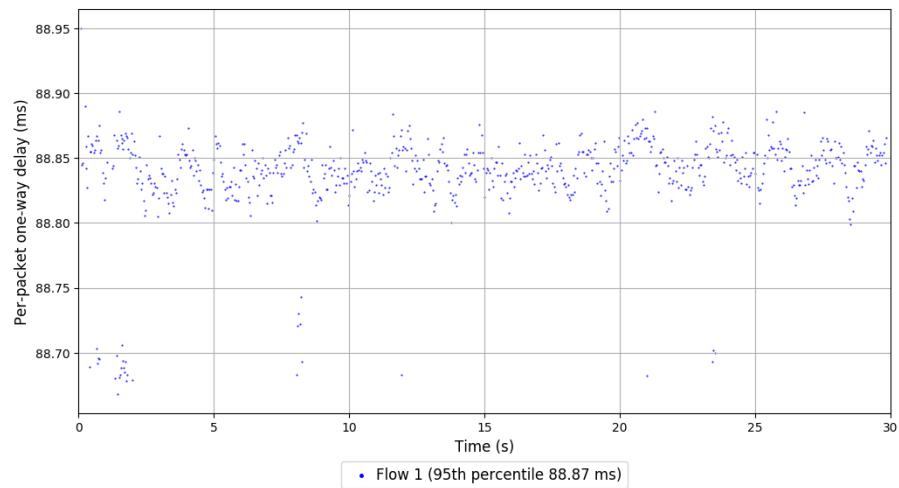
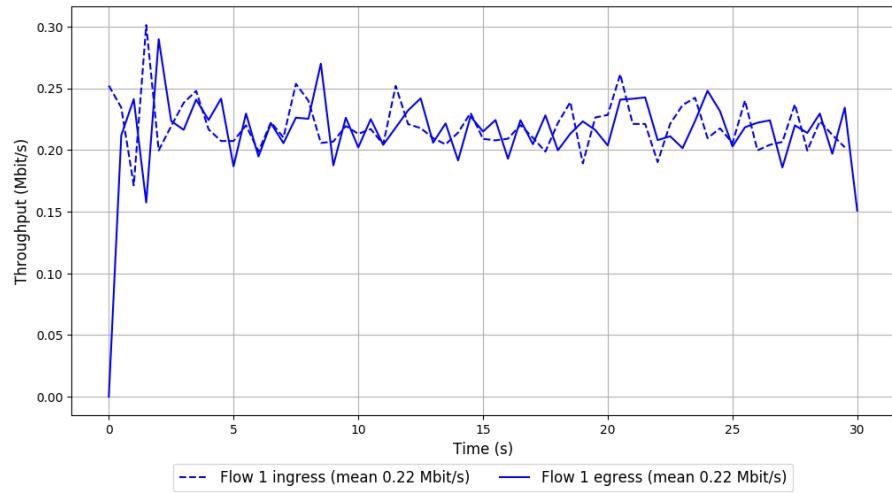


Run 4: Statistics of SCReAM

```
Start at: 2019-03-19 09:51:11
End at: 2019-03-19 09:51:41
Local clock offset: -7.029 ms
Remote clock offset: 5.583 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.869 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.869 ms
Loss rate: 0.64%
```

Run 4: Report of SCReAM — Data Link

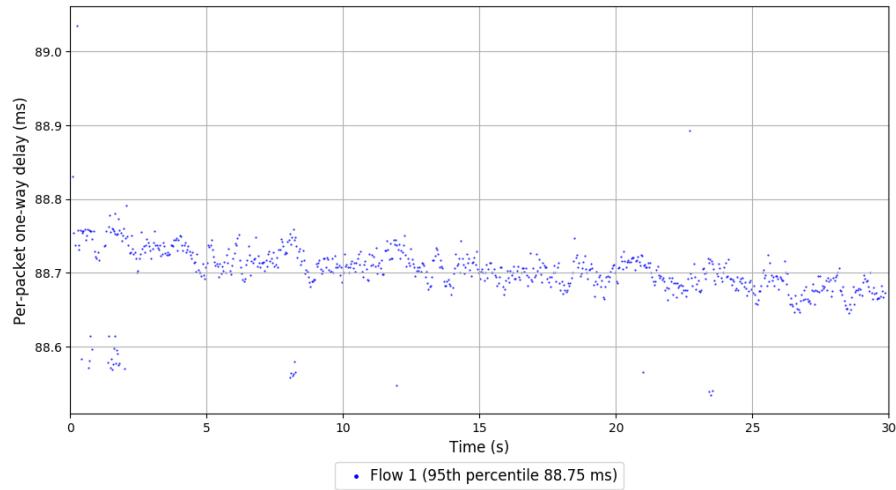
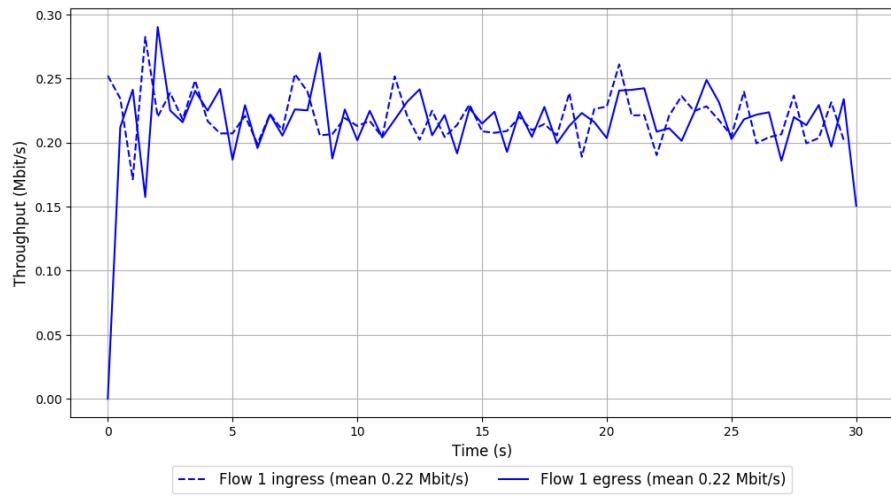


Run 5: Statistics of SCReAM

```
Start at: 2019-03-19 10:16:11
End at: 2019-03-19 10:16:41
Local clock offset: -7.138 ms
Remote clock offset: 5.822 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.750 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.750 ms
Loss rate: 0.64%
```

Run 5: Report of SCReAM — Data Link

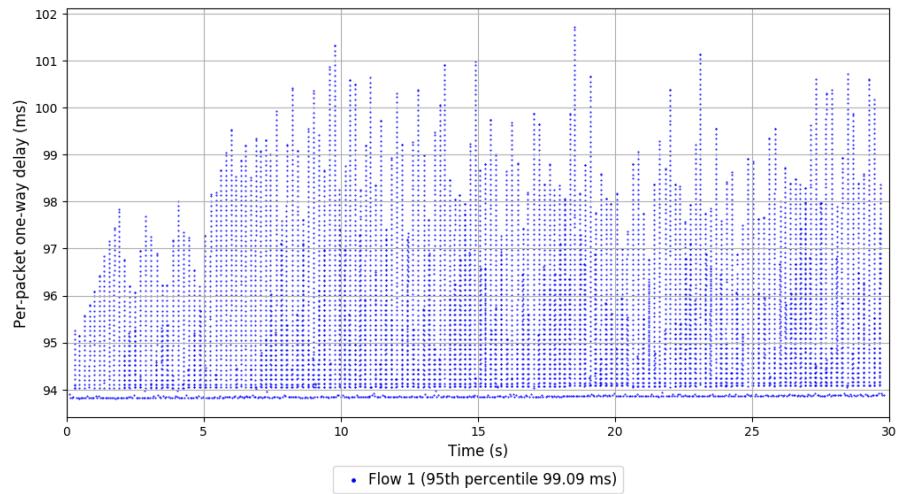
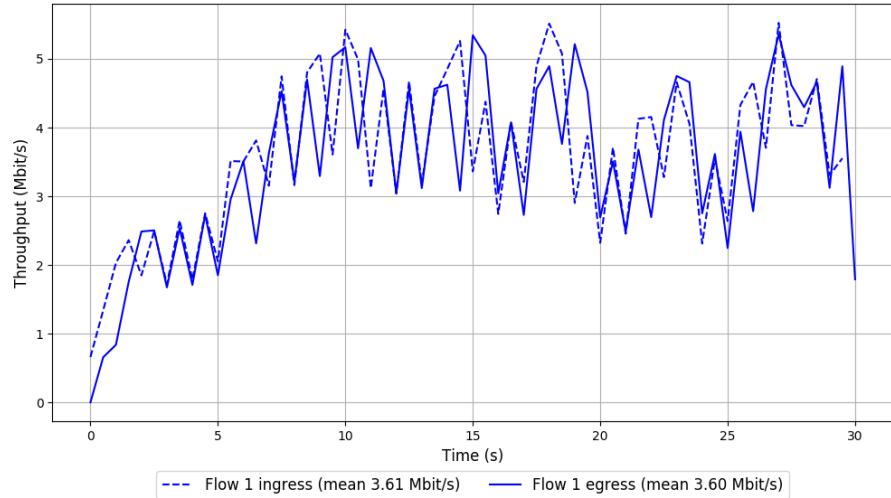


Run 1: Statistics of Sprout

```
Start at: 2019-03-19 08:43:10
End at: 2019-03-19 08:43:40
Local clock offset: -7.907 ms
Remote clock offset: 3.805 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 99.090 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 99.090 ms
Loss rate: 0.82%
```

Run 1: Report of Sprout — Data Link

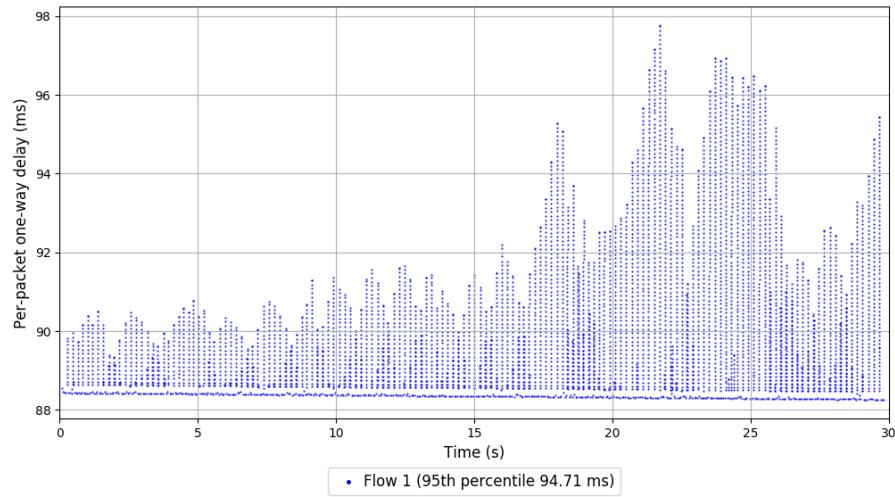
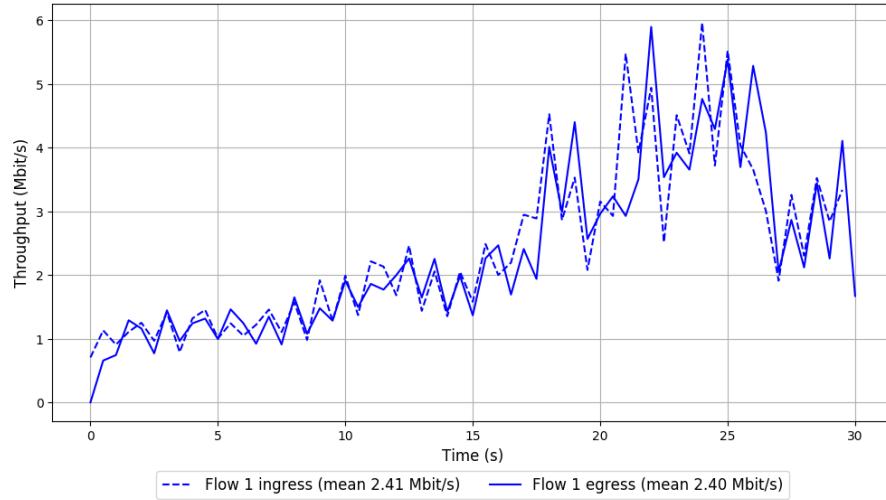


Run 2: Statistics of Sprout

```
Start at: 2019-03-19 09:08:11
End at: 2019-03-19 09:08:41
Local clock offset: -9.067 ms
Remote clock offset: 7.61 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 94.714 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 94.714 ms
Loss rate: 1.16%
```

Run 2: Report of Sprout — Data Link

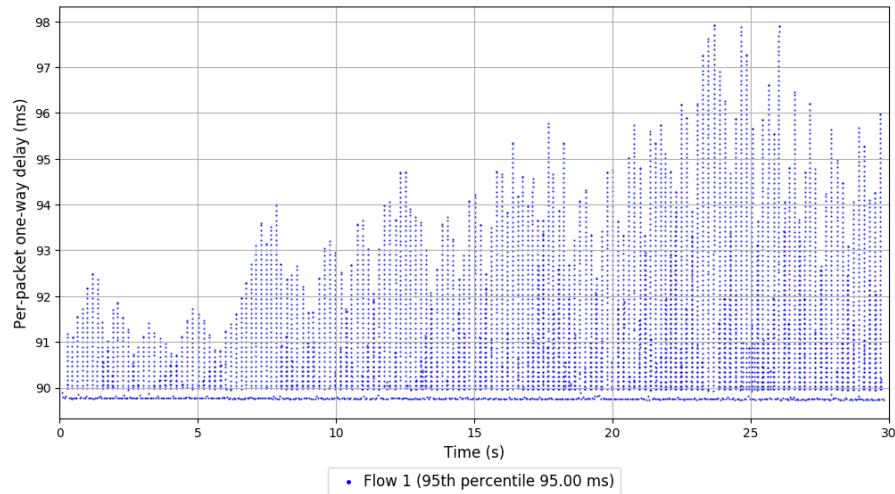
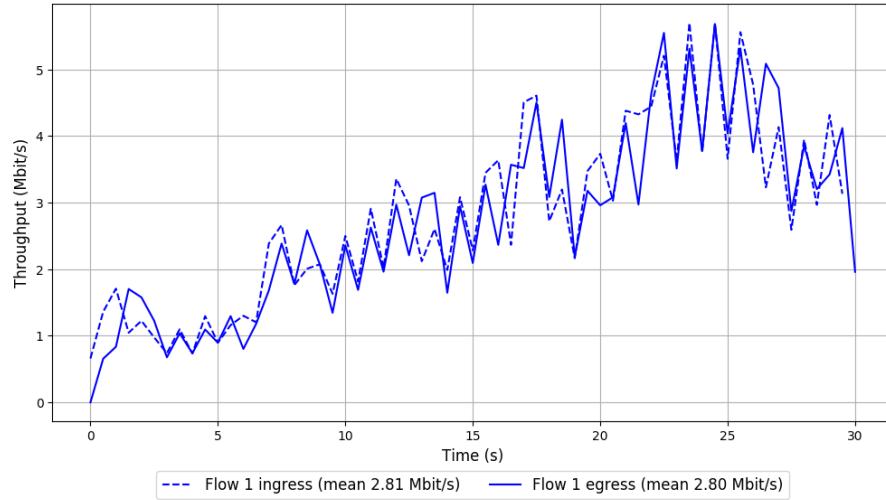


Run 3: Statistics of Sprout

```
Start at: 2019-03-19 09:33:13
End at: 2019-03-19 09:33:43
Local clock offset: -7.151 ms
Remote clock offset: 3.734 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.80 Mbit/s
95th percentile per-packet one-way delay: 95.004 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 2.80 Mbit/s
95th percentile per-packet one-way delay: 95.004 ms
Loss rate: 0.99%
```

Run 3: Report of Sprout — Data Link

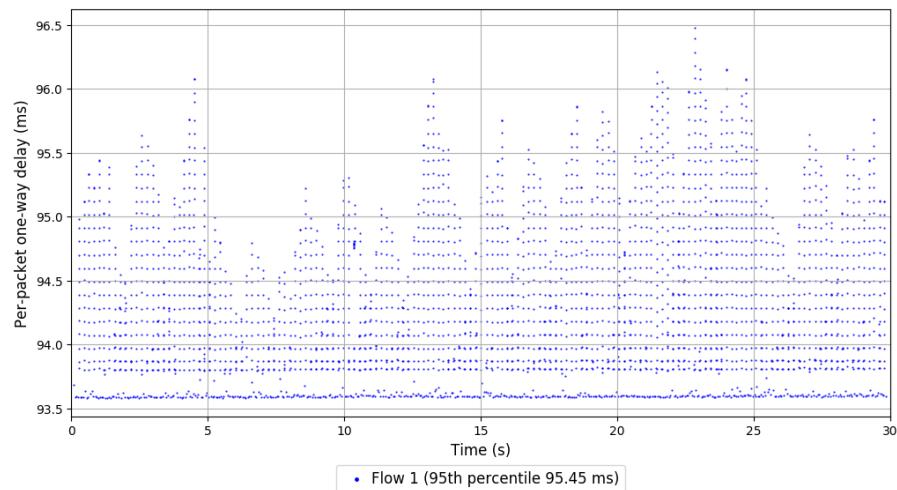
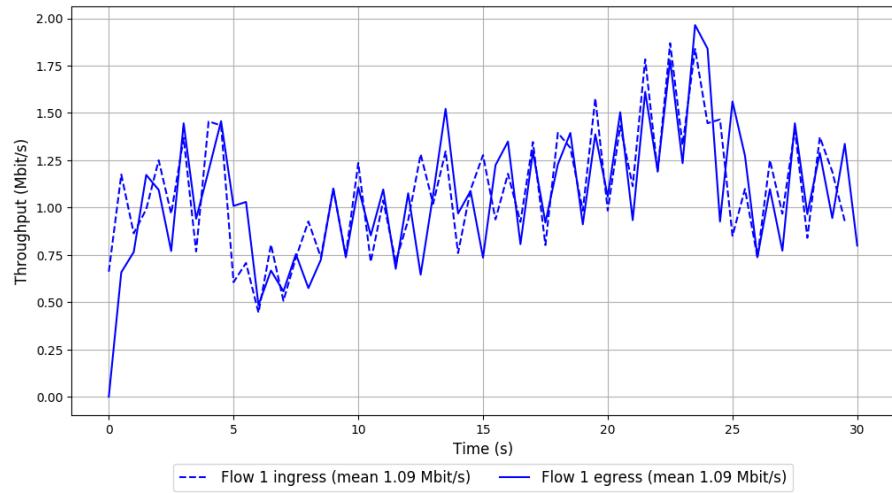


Run 4: Statistics of Sprout

```
Start at: 2019-03-19 09:58:15
End at: 2019-03-19 09:58:45
Local clock offset: -7.014 ms
Remote clock offset: 0.769 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 95.450 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 95.450 ms
Loss rate: 0.63%
```

Run 4: Report of Sprout — Data Link

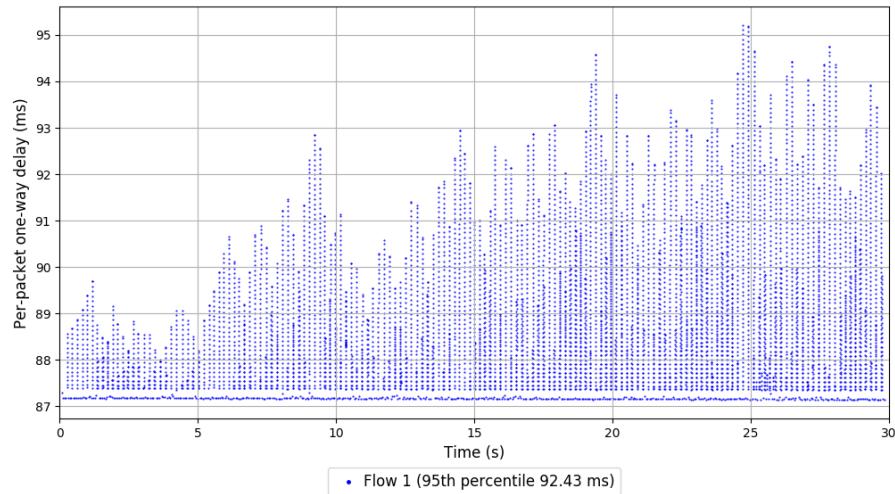
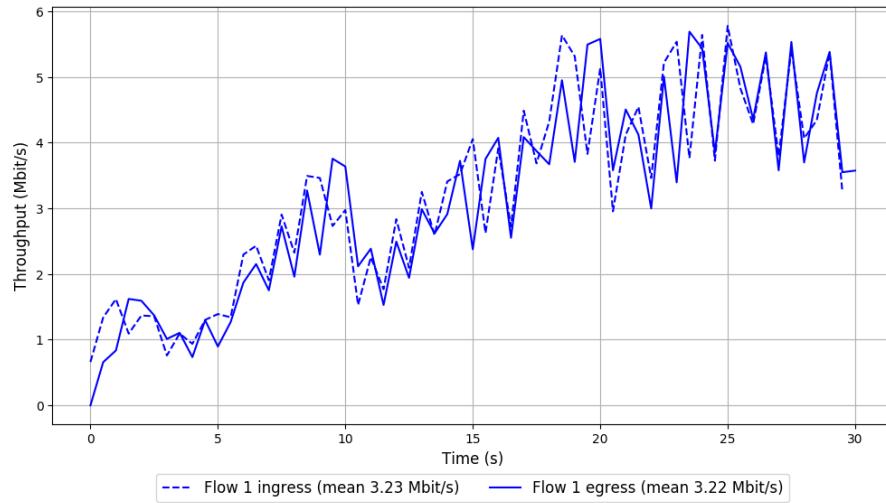


Run 5: Statistics of Sprout

```
Start at: 2019-03-19 10:23:15
End at: 2019-03-19 10:23:45
Local clock offset: -7.277 ms
Remote clock offset: 5.48 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 92.431 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 92.431 ms
Loss rate: 0.78%
```

Run 5: Report of Sprout — Data Link

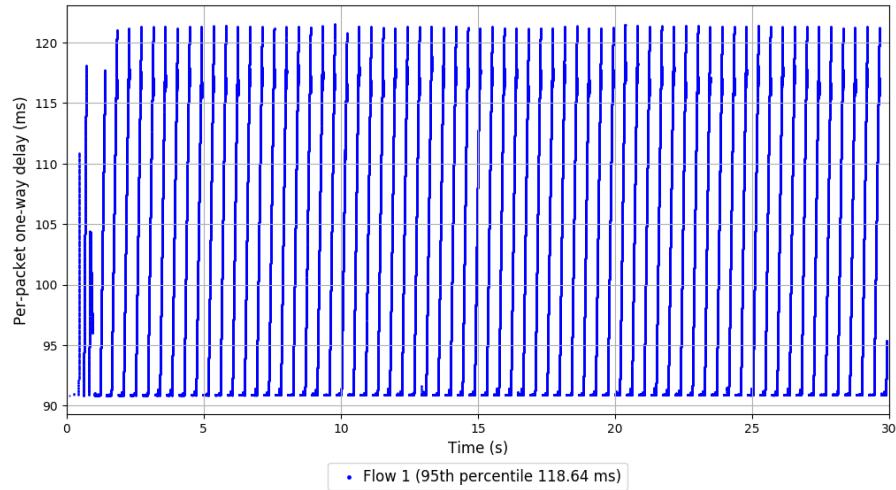
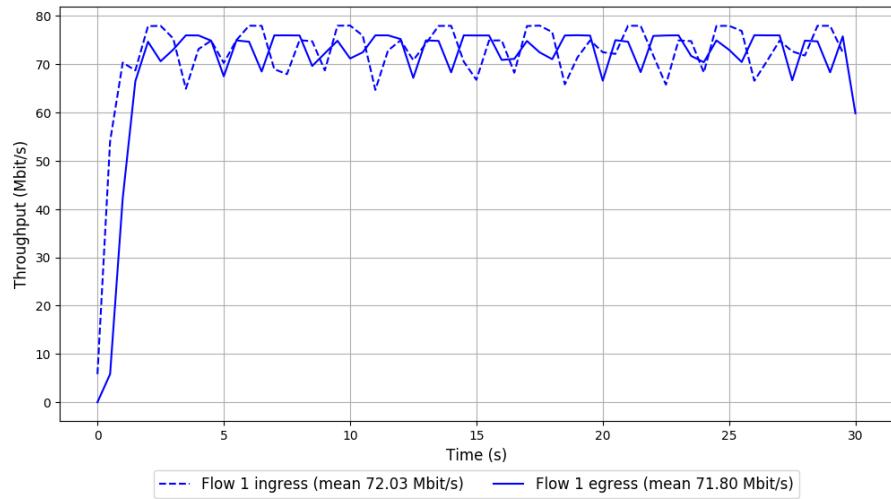


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-19 08:45:26
End at: 2019-03-19 08:45:56
Local clock offset: -8.065 ms
Remote clock offset: 7.698 ms

# Below is generated by plot.py at 2019-03-19 10:53:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.80 Mbit/s
95th percentile per-packet one-way delay: 118.643 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 71.80 Mbit/s
95th percentile per-packet one-way delay: 118.643 ms
Loss rate: 0.82%
```

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

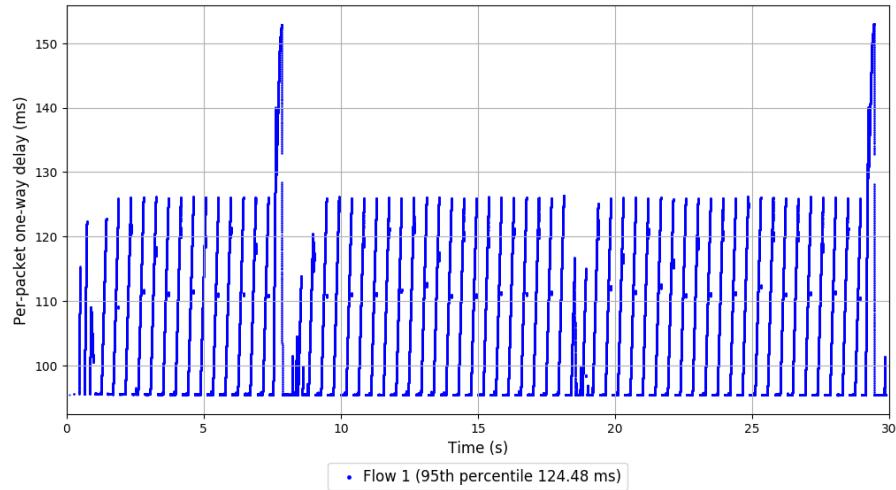
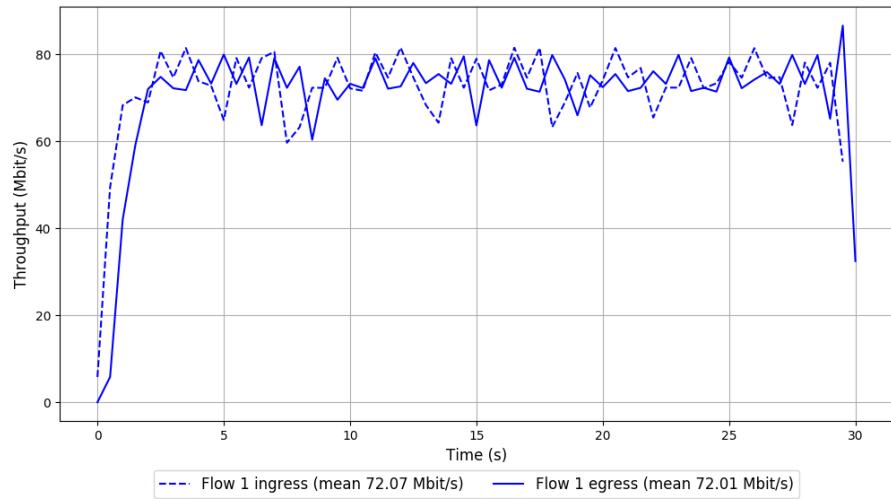


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-19 09:10:27
End at: 2019-03-19 09:10:57
Local clock offset: -8.375 ms
Remote clock offset: 6.577 ms

# Below is generated by plot.py at 2019-03-19 10:53:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.01 Mbit/s
95th percentile per-packet one-way delay: 124.480 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 72.01 Mbit/s
95th percentile per-packet one-way delay: 124.480 ms
Loss rate: 0.69%
```

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

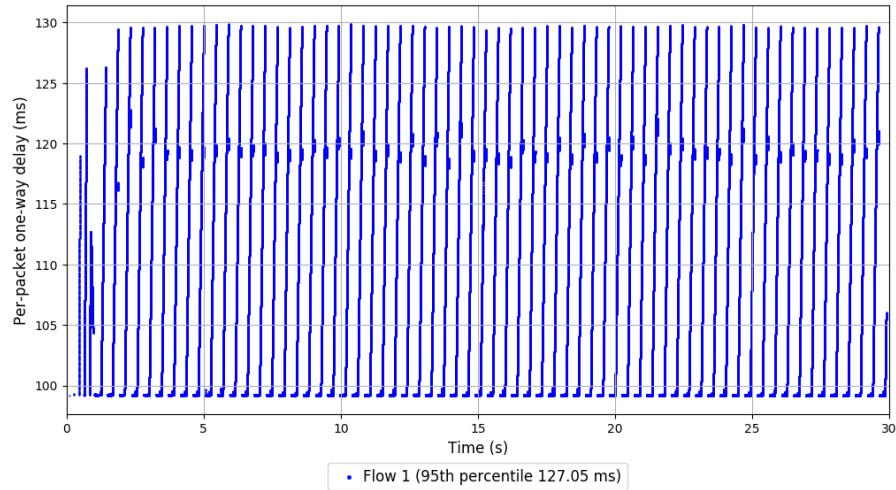
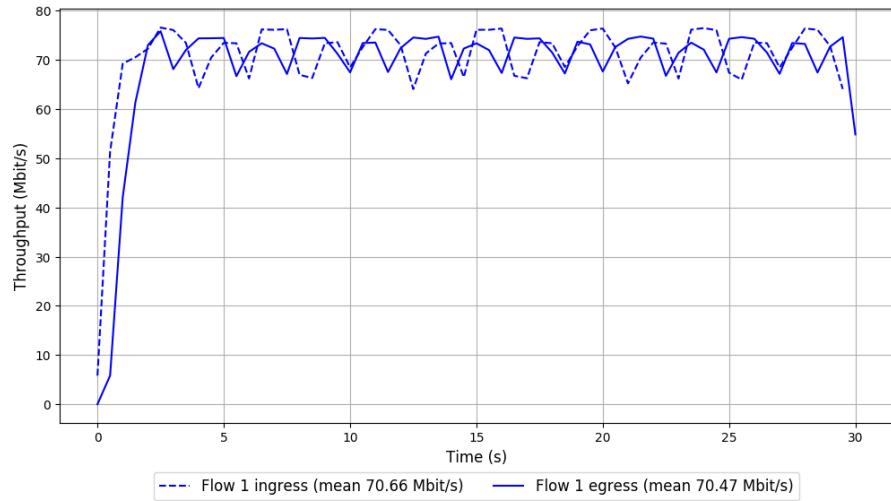


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-19 09:35:29
End at: 2019-03-19 09:35:59
Local clock offset: -7.116 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-03-19 10:53:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.47 Mbit/s
95th percentile per-packet one-way delay: 127.047 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 70.47 Mbit/s
95th percentile per-packet one-way delay: 127.047 ms
Loss rate: 0.76%
```

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

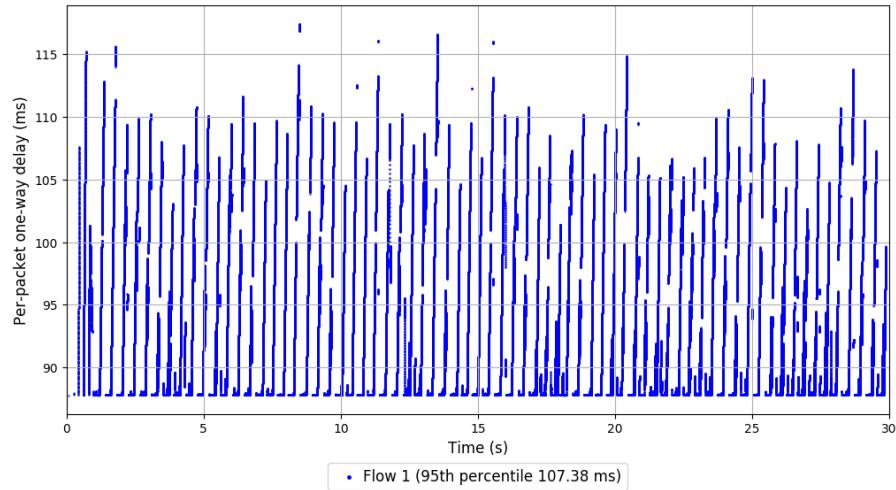
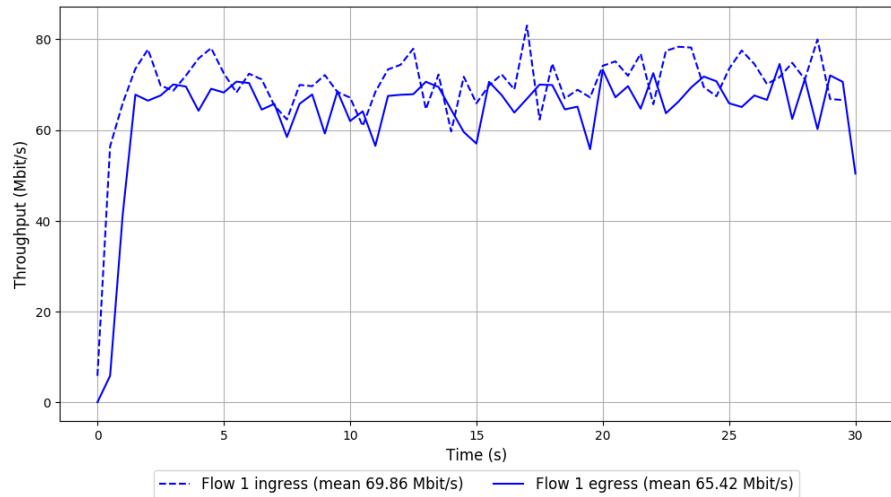


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-19 10:00:30
End at: 2019-03-19 10:01:00
Local clock offset: -7.766 ms
Remote clock offset: 5.73 ms

# Below is generated by plot.py at 2019-03-19 10:53:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.42 Mbit/s
95th percentile per-packet one-way delay: 107.381 ms
Loss rate: 6.89%
-- Flow 1:
Average throughput: 65.42 Mbit/s
95th percentile per-packet one-way delay: 107.381 ms
Loss rate: 6.89%
```

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

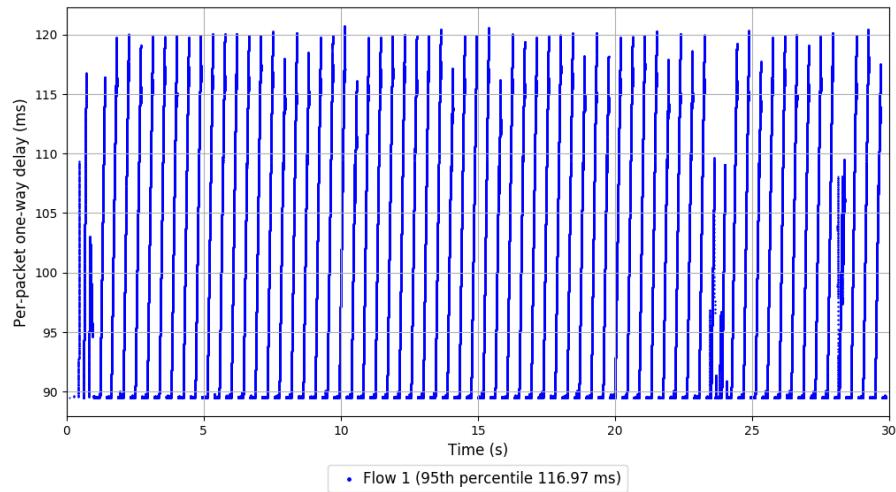
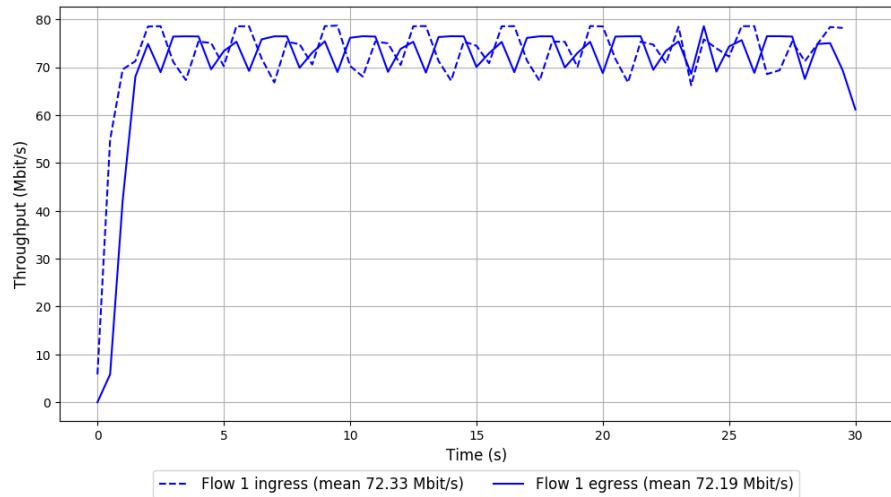


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-19 10:25:31
End at: 2019-03-19 10:26:01
Local clock offset: -6.461 ms
Remote clock offset: 4.55 ms

# Below is generated by plot.py at 2019-03-19 10:53:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.19 Mbit/s
95th percentile per-packet one-way delay: 116.966 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 72.19 Mbit/s
95th percentile per-packet one-way delay: 116.966 ms
Loss rate: 0.88%
```

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

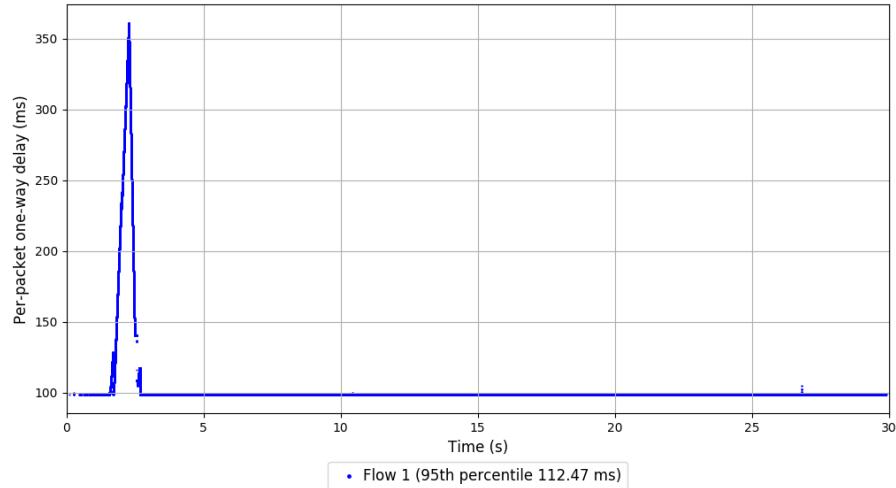
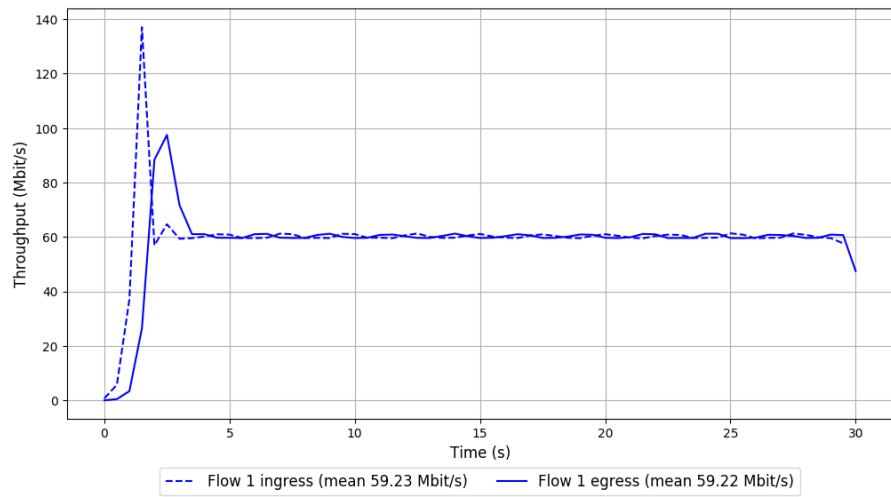


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-19 08:59:56
End at: 2019-03-19 09:00:26
Local clock offset: -8.817 ms
Remote clock offset: 5.872 ms

# Below is generated by plot.py at 2019-03-19 10:53:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.22 Mbit/s
95th percentile per-packet one-way delay: 112.467 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 59.22 Mbit/s
95th percentile per-packet one-way delay: 112.467 ms
Loss rate: 0.62%
```

Run 1: Report of TCP Vegas — Data Link

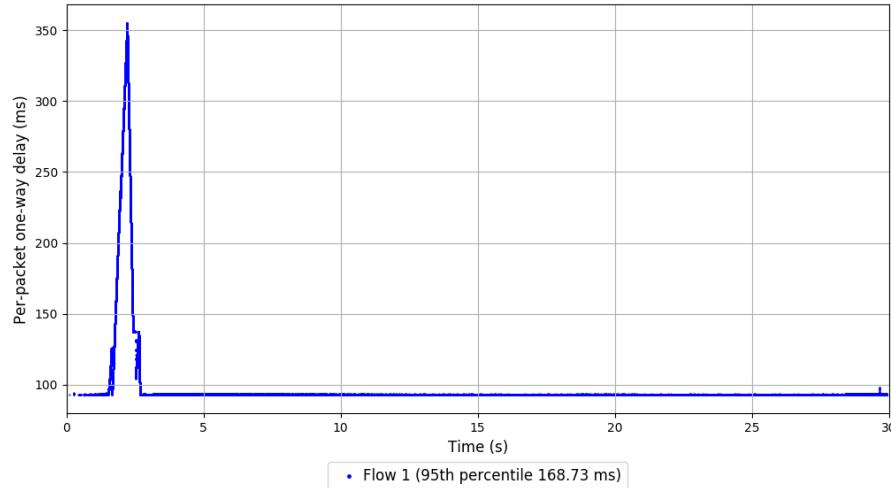
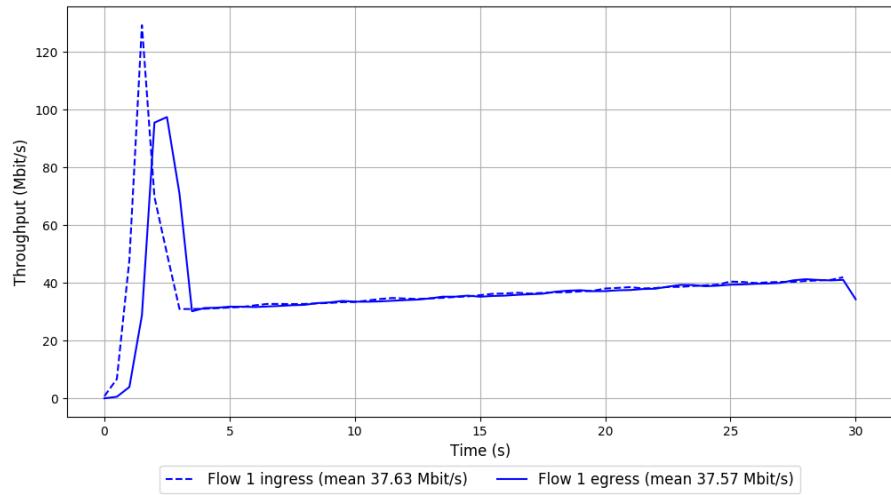


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-19 09:24:59
End at: 2019-03-19 09:25:29
Local clock offset: -8.226 ms
Remote clock offset: 0.502 ms

# Below is generated by plot.py at 2019-03-19 10:53:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.57 Mbit/s
95th percentile per-packet one-way delay: 168.729 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 37.57 Mbit/s
95th percentile per-packet one-way delay: 168.729 ms
Loss rate: 0.71%
```

Run 2: Report of TCP Vegas — Data Link

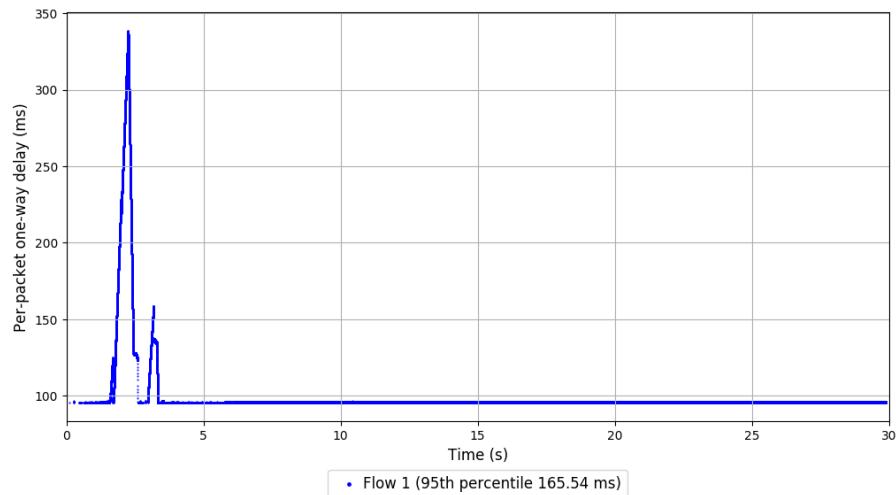
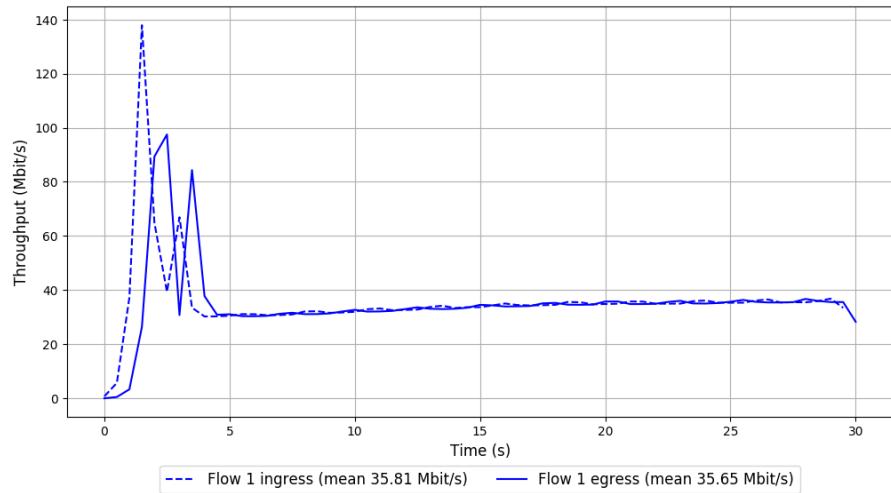


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-19 09:50:01
End at: 2019-03-19 09:50:31
Local clock offset: -7.06 ms
Remote clock offset: 4.286 ms

# Below is generated by plot.py at 2019-03-19 10:53:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.65 Mbit/s
95th percentile per-packet one-way delay: 165.544 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 35.65 Mbit/s
95th percentile per-packet one-way delay: 165.544 ms
Loss rate: 1.05%
```

Run 3: Report of TCP Vegas — Data Link

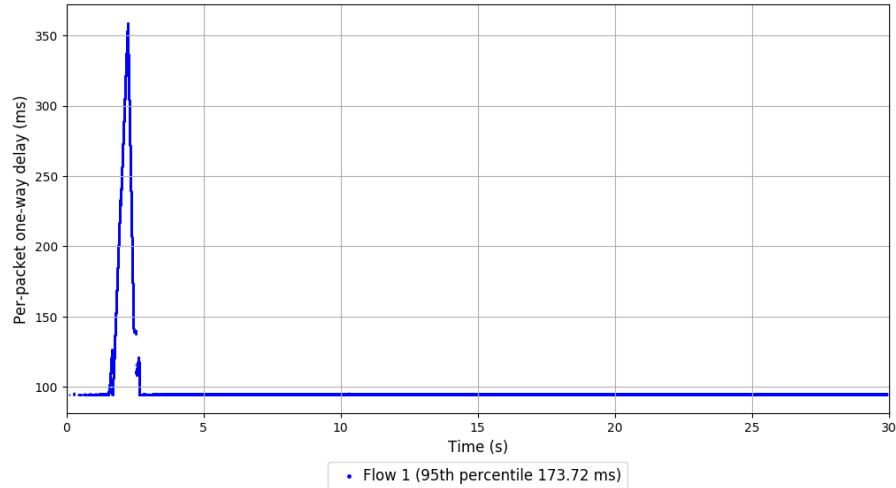
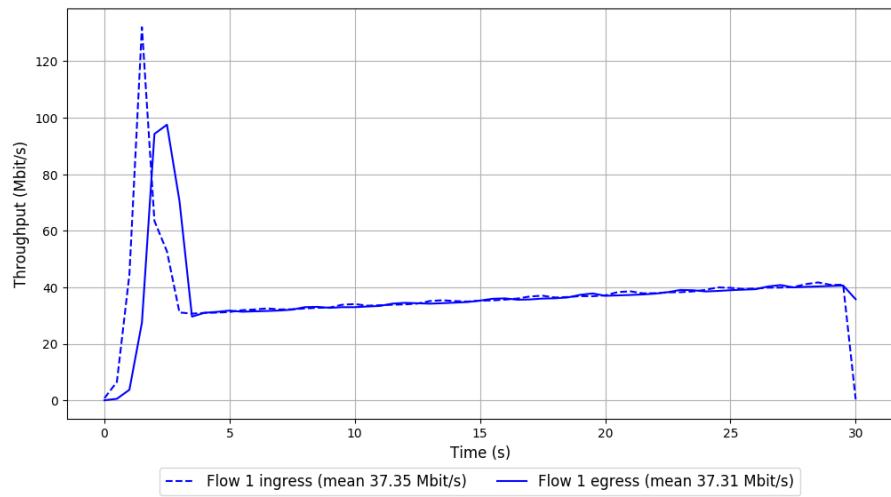


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-19 10:15:02
End at: 2019-03-19 10:15:32
Local clock offset: -7.183 ms
Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2019-03-19 10:53:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.31 Mbit/s
95th percentile per-packet one-way delay: 173.721 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 37.31 Mbit/s
95th percentile per-packet one-way delay: 173.721 ms
Loss rate: 0.67%
```

Run 4: Report of TCP Vegas — Data Link

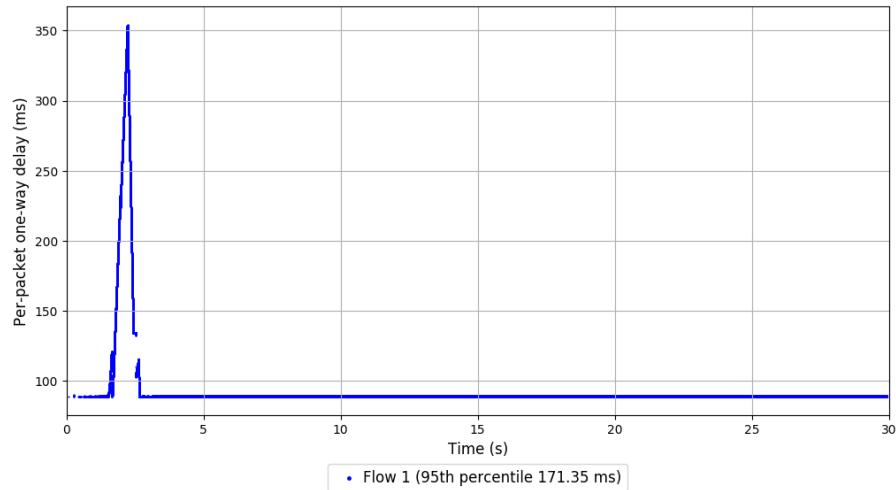
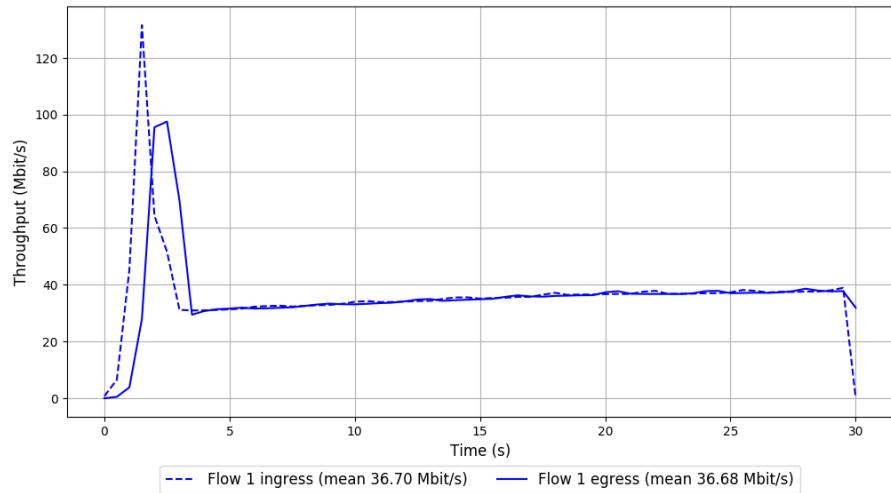


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-19 10:39:58
End at: 2019-03-19 10:40:28
Local clock offset: -6.034 ms
Remote clock offset: 4.528 ms

# Below is generated by plot.py at 2019-03-19 10:53:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.68 Mbit/s
95th percentile per-packet one-way delay: 171.353 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 36.68 Mbit/s
95th percentile per-packet one-way delay: 171.353 ms
Loss rate: 0.63%
```

Run 5: Report of TCP Vegas — Data Link

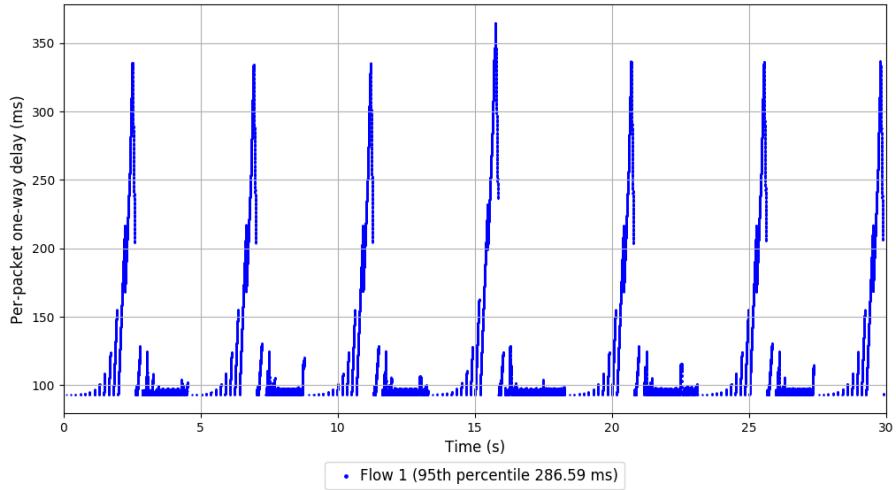
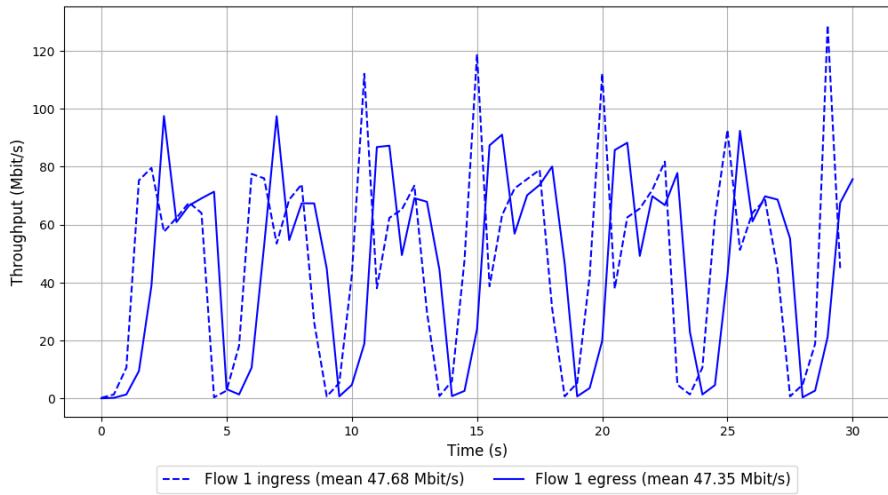


Run 1: Statistics of Verus

```
Start at: 2019-03-19 08:56:21
End at: 2019-03-19 08:56:51
Local clock offset: -8.782 ms
Remote clock offset: 5.748 ms

# Below is generated by plot.py at 2019-03-19 10:53:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.35 Mbit/s
95th percentile per-packet one-way delay: 286.587 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 47.35 Mbit/s
95th percentile per-packet one-way delay: 286.587 ms
Loss rate: 1.13%
```

Run 1: Report of Verus — Data Link

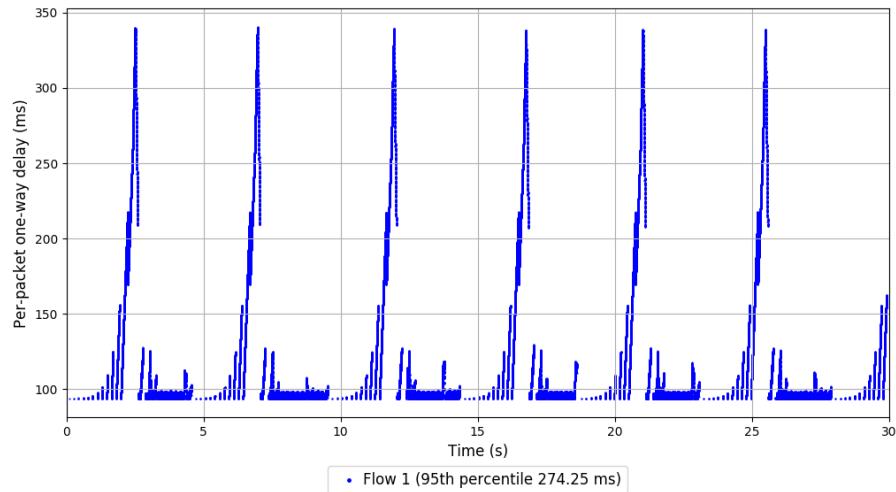
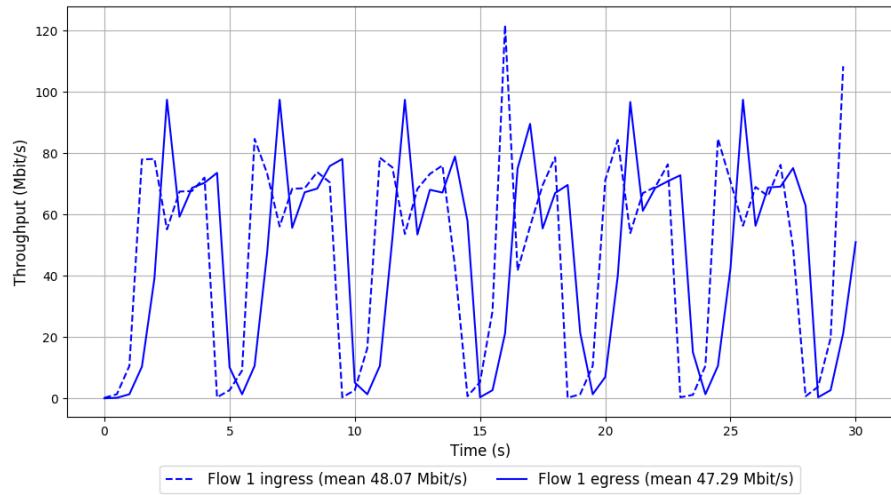


Run 2: Statistics of Verus

```
Start at: 2019-03-19 09:21:25
End at: 2019-03-19 09:21:55
Local clock offset: -7.785 ms
Remote clock offset: 0.789 ms

# Below is generated by plot.py at 2019-03-19 10:53:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.29 Mbit/s
95th percentile per-packet one-way delay: 274.246 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 47.29 Mbit/s
95th percentile per-packet one-way delay: 274.246 ms
Loss rate: 2.05%
```

Run 2: Report of Verus — Data Link

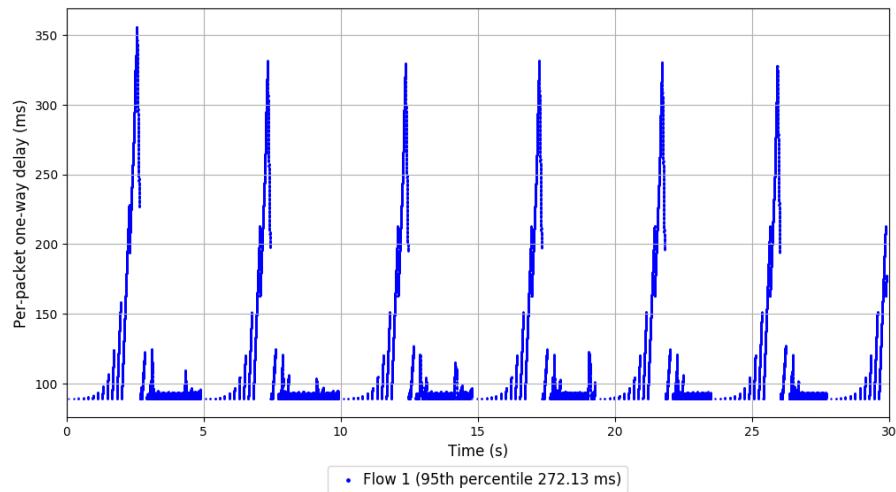
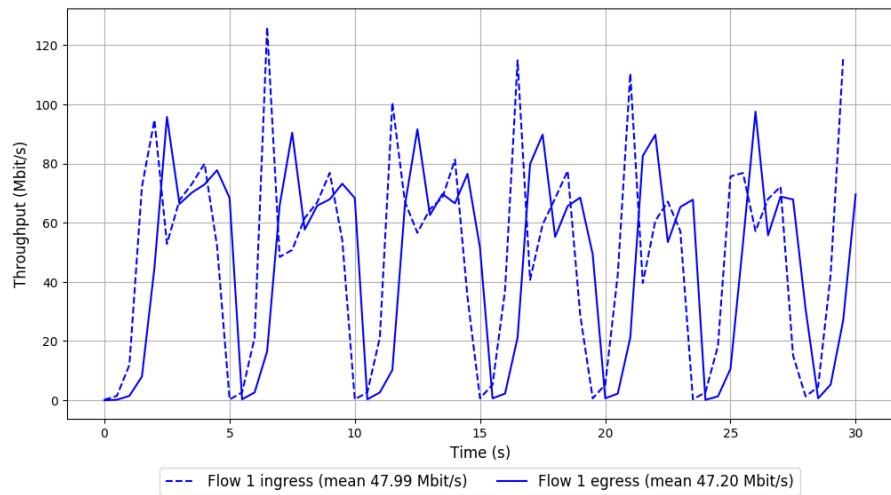


Run 3: Statistics of Verus

```
Start at: 2019-03-19 09:46:25
End at: 2019-03-19 09:46:55
Local clock offset: -7.118 ms
Remote clock offset: 5.181 ms

# Below is generated by plot.py at 2019-03-19 10:53:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.20 Mbit/s
95th percentile per-packet one-way delay: 272.133 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 47.20 Mbit/s
95th percentile per-packet one-way delay: 272.133 ms
Loss rate: 2.20%
```

Run 3: Report of Verus — Data Link

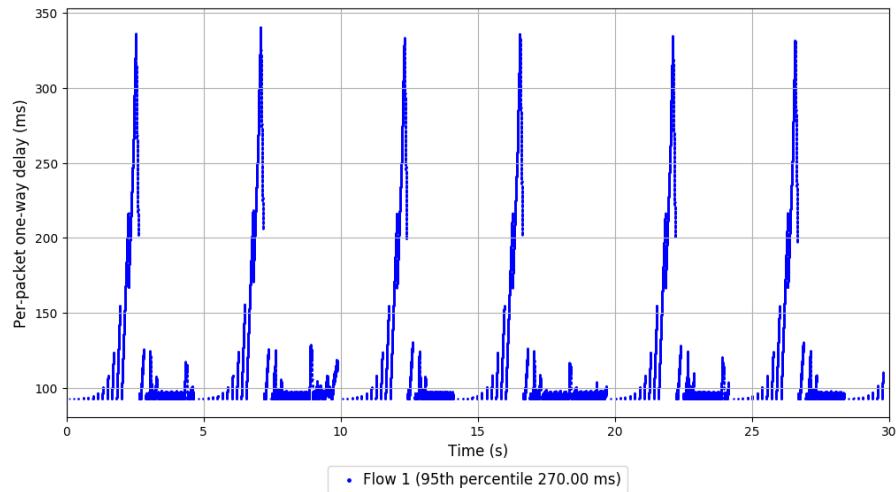
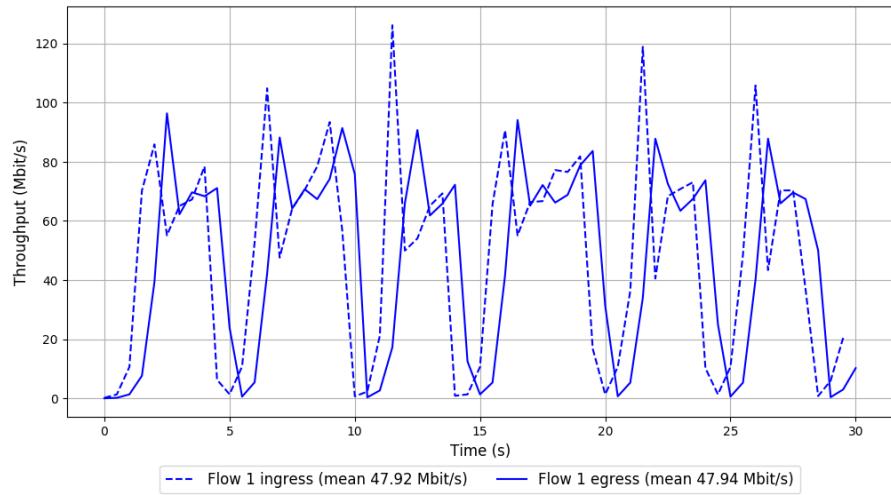


Run 4: Statistics of Verus

```
Start at: 2019-03-19 10:11:27
End at: 2019-03-19 10:11:57
Local clock offset: -7.863 ms
Remote clock offset: 0.841 ms

# Below is generated by plot.py at 2019-03-19 10:53:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.94 Mbit/s
95th percentile per-packet one-way delay: 269.995 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 47.94 Mbit/s
95th percentile per-packet one-way delay: 269.995 ms
Loss rate: 0.54%
```

Run 4: Report of Verus — Data Link

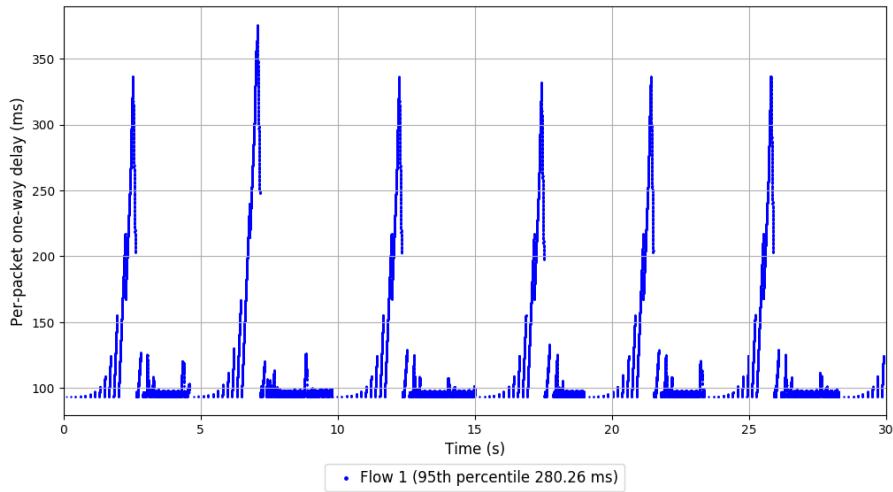
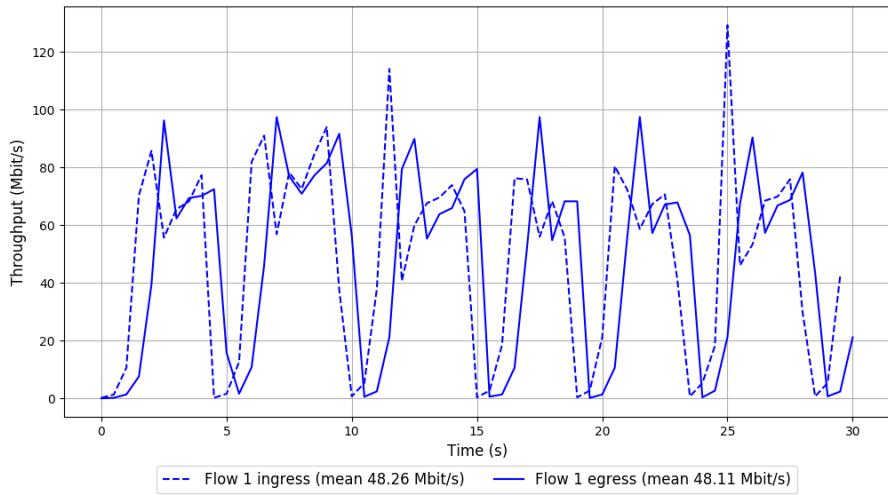


Run 5: Statistics of Verus

```
Start at: 2019-03-19 10:36:24
End at: 2019-03-19 10:36:54
Local clock offset: -6.096 ms
Remote clock offset: 0.789 ms

# Below is generated by plot.py at 2019-03-19 10:53:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.11 Mbit/s
95th percentile per-packet one-way delay: 280.259 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 48.11 Mbit/s
95th percentile per-packet one-way delay: 280.259 ms
Loss rate: 0.90%
```

Run 5: Report of Verus — Data Link

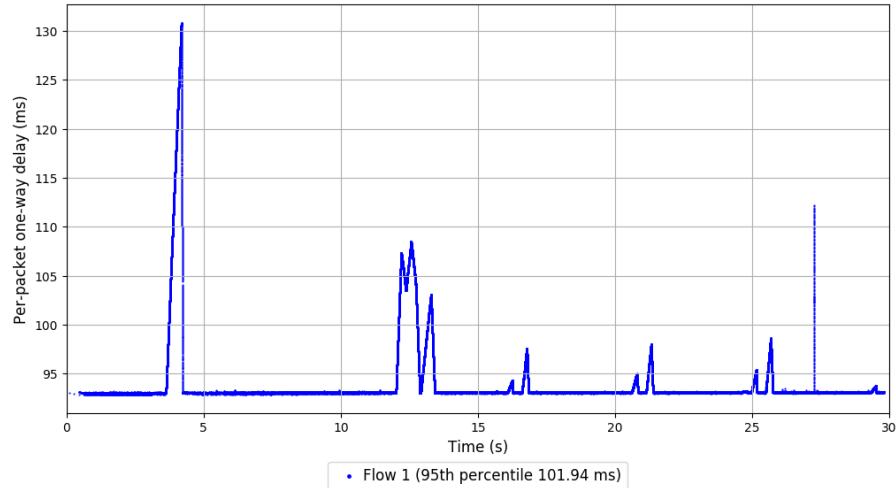
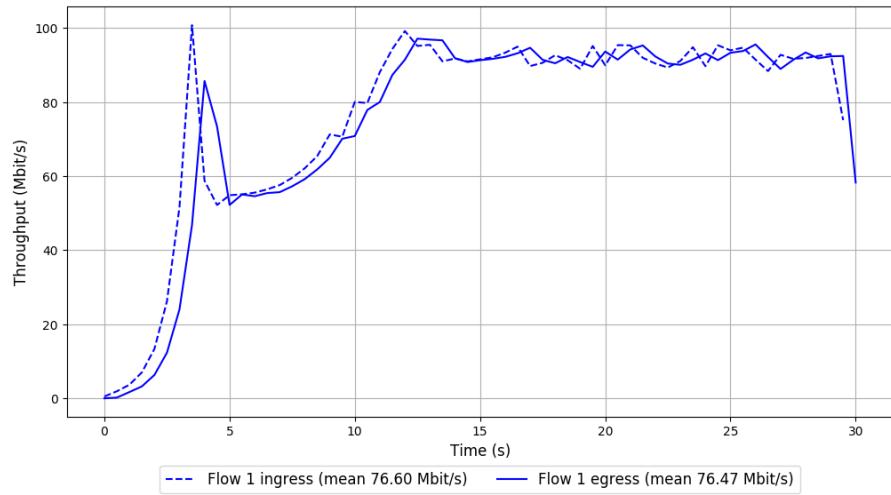


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-03-19 08:39:34
End at: 2019-03-19 08:40:04
Local clock offset: -8.382 ms
Remote clock offset: 4.713 ms

# Below is generated by plot.py at 2019-03-19 10:54:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.47 Mbit/s
95th percentile per-packet one-way delay: 101.943 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 76.47 Mbit/s
95th percentile per-packet one-way delay: 101.943 ms
Loss rate: 0.75%
```

Run 1: Report of PCC-Vivace — Data Link

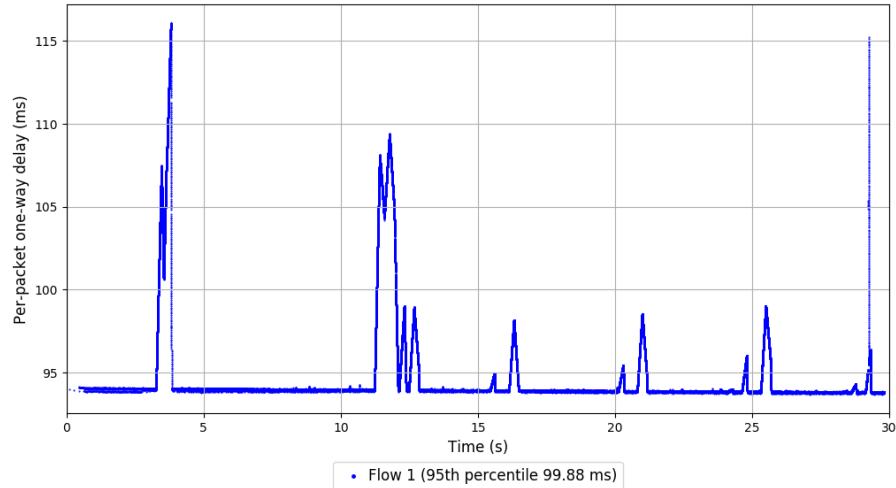
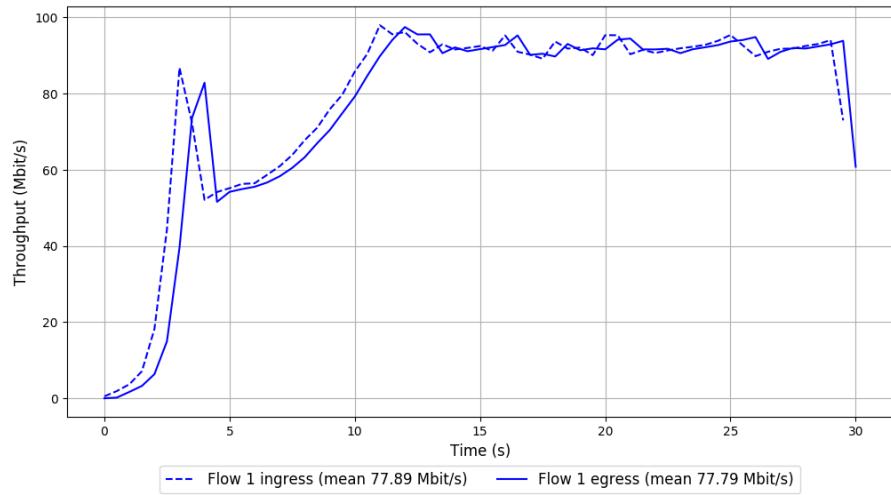


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-19 09:04:35
End at: 2019-03-19 09:05:05
Local clock offset: -8.995 ms
Remote clock offset: 4.15 ms

# Below is generated by plot.py at 2019-03-19 10:54:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.79 Mbit/s
95th percentile per-packet one-way delay: 99.880 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 77.79 Mbit/s
95th percentile per-packet one-way delay: 99.880 ms
Loss rate: 0.71%
```

Run 2: Report of PCC-Vivace — Data Link

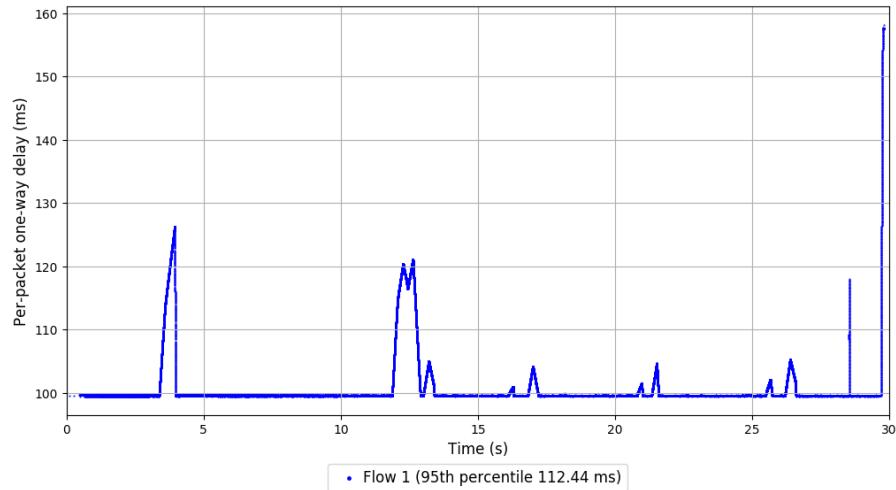
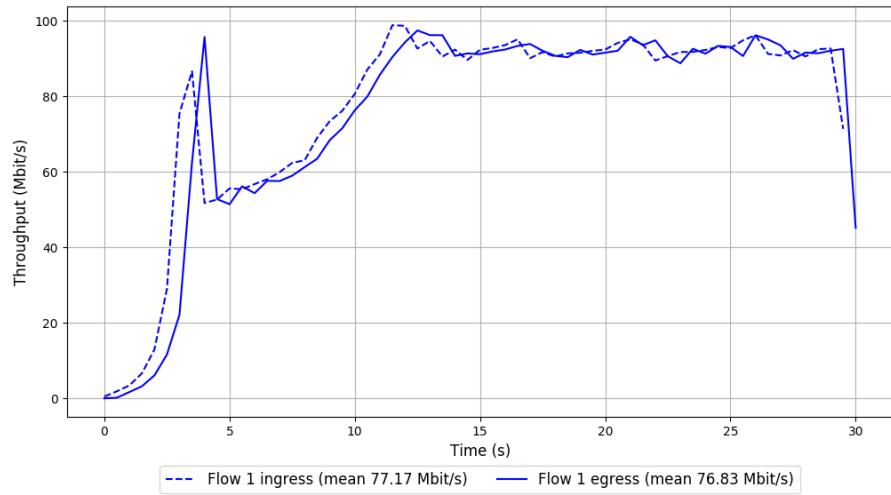


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-19 09:29:38
End at: 2019-03-19 09:30:08
Local clock offset: -7.985 ms
Remote clock offset: -0.949 ms

# Below is generated by plot.py at 2019-03-19 10:54:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.83 Mbit/s
95th percentile per-packet one-way delay: 112.445 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 76.83 Mbit/s
95th percentile per-packet one-way delay: 112.445 ms
Loss rate: 1.03%
```

Run 3: Report of PCC-Vivace — Data Link

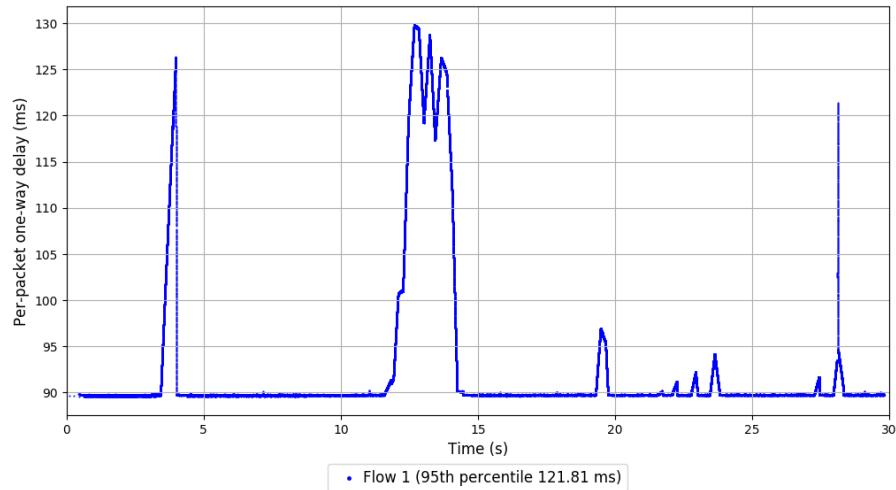
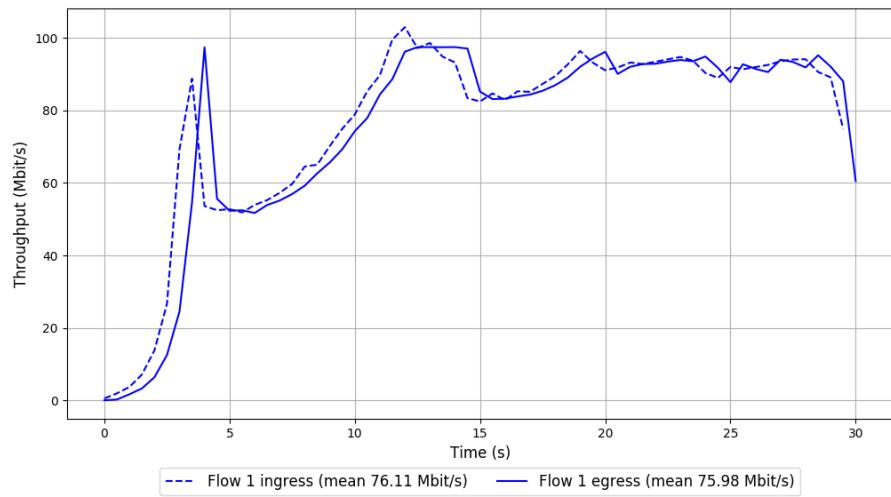


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-19 09:54:39
End at: 2019-03-19 09:55:09
Local clock offset: -7.013 ms
Remote clock offset: 4.519 ms

# Below is generated by plot.py at 2019-03-19 10:54:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.98 Mbit/s
95th percentile per-packet one-way delay: 121.815 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 75.98 Mbit/s
95th percentile per-packet one-way delay: 121.815 ms
Loss rate: 0.75%
```

Run 4: Report of PCC-Vivace — Data Link

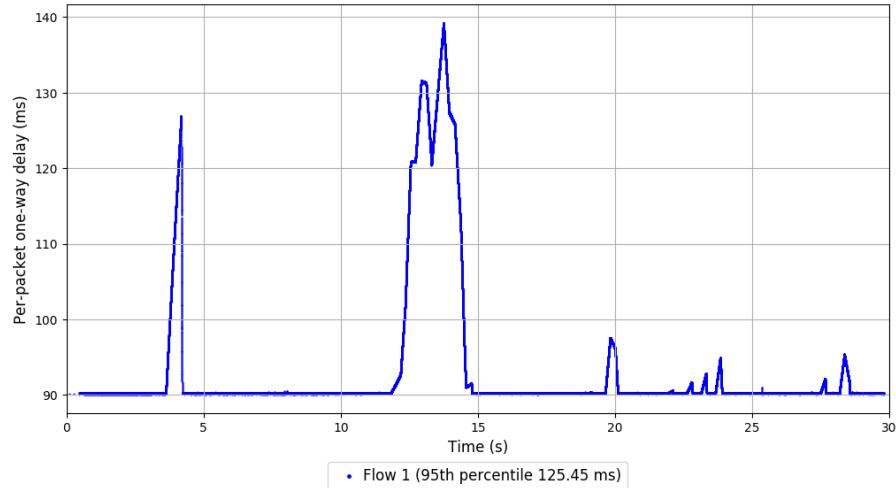
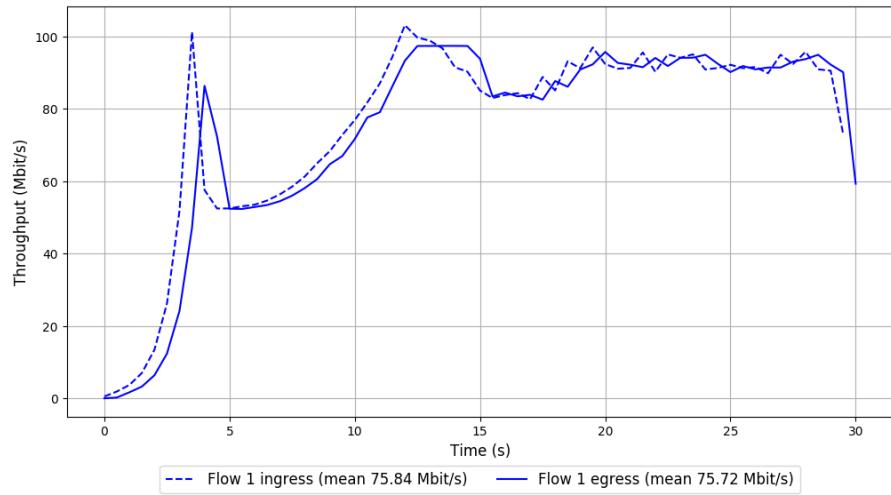


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-19 10:19:40
End at: 2019-03-19 10:20:10
Local clock offset: -6.753 ms
Remote clock offset: 3.415 ms

# Below is generated by plot.py at 2019-03-19 10:54:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.72 Mbit/s
95th percentile per-packet one-way delay: 125.454 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 75.72 Mbit/s
95th percentile per-packet one-way delay: 125.454 ms
Loss rate: 0.74%
```

Run 5: Report of PCC-Vivace — Data Link

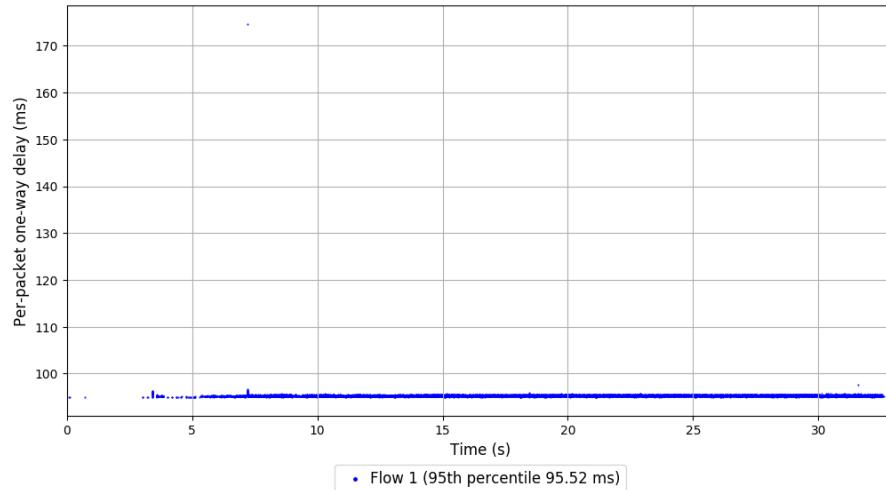
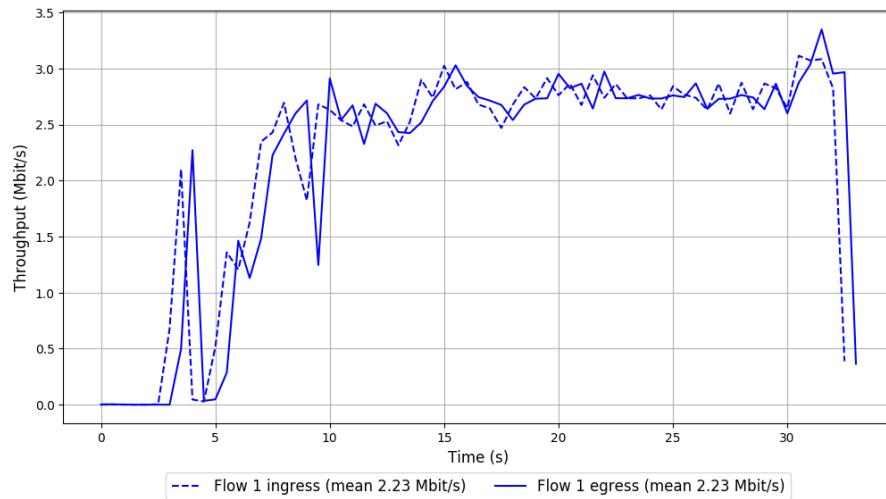


Run 1: Statistics of WebRTC media

```
Start at: 2019-03-19 08:44:18
End at: 2019-03-19 08:44:48
Local clock offset: -8.001 ms
Remote clock offset: 3.638 ms

# Below is generated by plot.py at 2019-03-19 10:54:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 95.524 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 95.524 ms
Loss rate: 0.25%
```

Run 1: Report of WebRTC media — Data Link

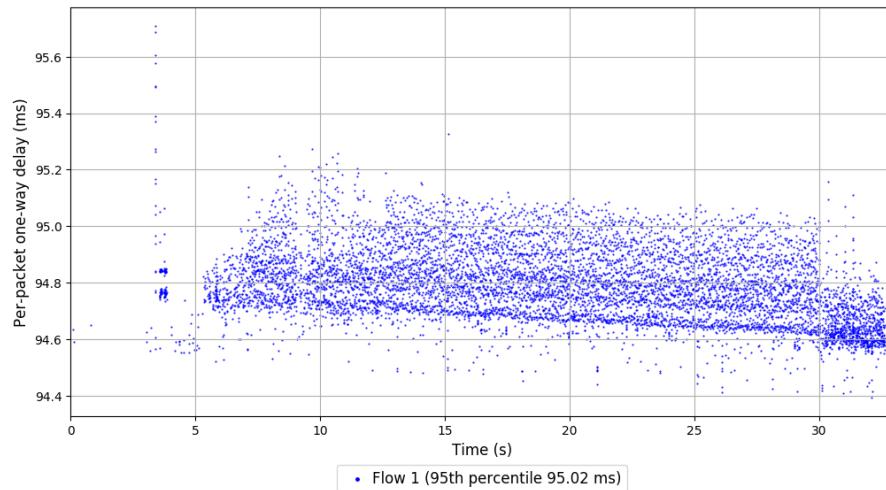
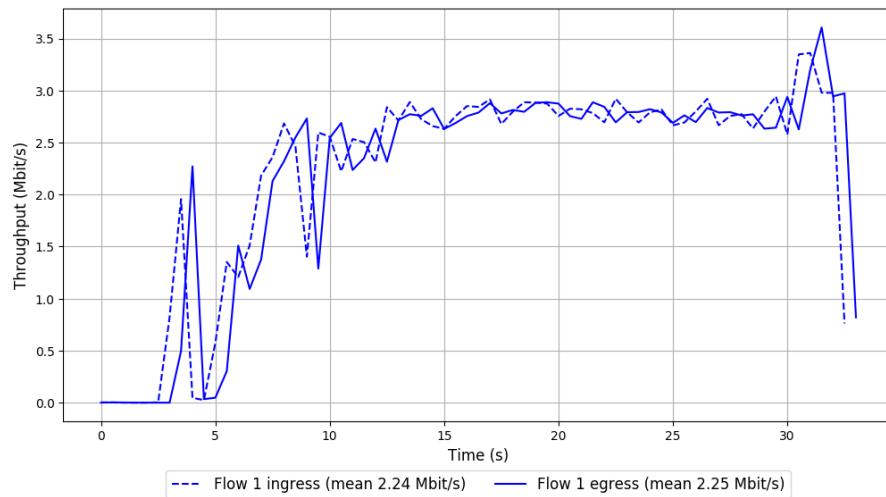


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-19 09:09:19
End at: 2019-03-19 09:09:49
Local clock offset: -8.354 ms
Remote clock offset: 1.826 ms

# Below is generated by plot.py at 2019-03-19 10:54:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 95.018 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 95.018 ms
Loss rate: 0.31%
```

Run 2: Report of WebRTC media — Data Link

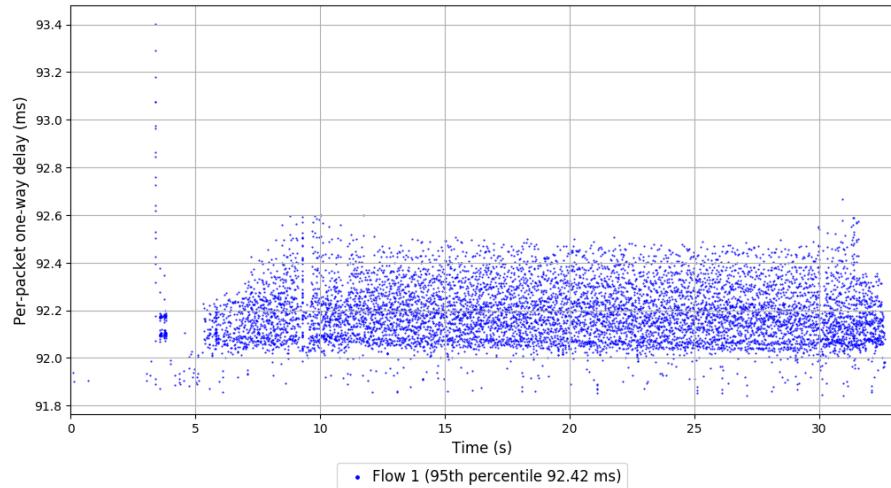
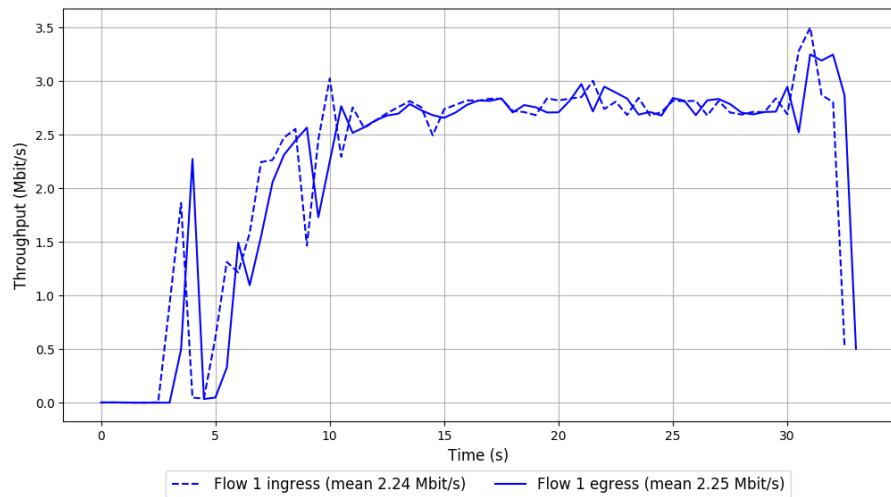


Run 3: Statistics of WebRTC media

```
Start at: 2019-03-19 09:34:21
End at: 2019-03-19 09:34:51
Local clock offset: -7.883 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-03-19 10:54:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 92.419 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 92.419 ms
Loss rate: 0.31%
```

Run 3: Report of WebRTC media — Data Link

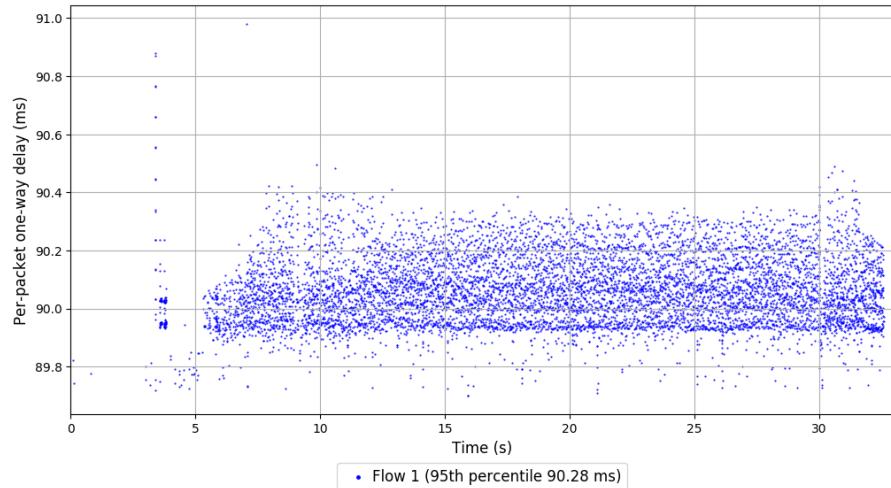
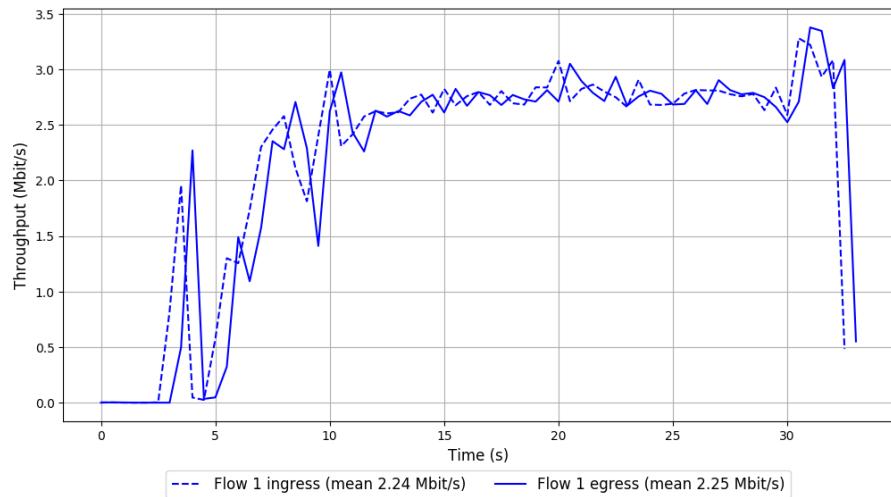


Run 4: Statistics of WebRTC media

```
Start at: 2019-03-19 09:59:22
End at: 2019-03-19 09:59:52
Local clock offset: -7.059 ms
Remote clock offset: 4.636 ms

# Below is generated by plot.py at 2019-03-19 10:54:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 90.277 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 90.277 ms
Loss rate: 0.30%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-03-19 10:24:23
End at: 2019-03-19 10:24:53
Local clock offset: -6.514 ms
Remote clock offset: 0.775 ms

# Below is generated by plot.py at 2019-03-19 10:54:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 93.055 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 93.055 ms
Loss rate: 0.29%
```

Run 5: Report of WebRTC media — Data Link

