

Pantheon Report

Generated at 2019-09-18 18:08:09 (UTC).
Data path: Colombia on p4p1 (*remote*) → AWS Brazil 2 on ens5 (*local*).
Repeated the test of 24 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

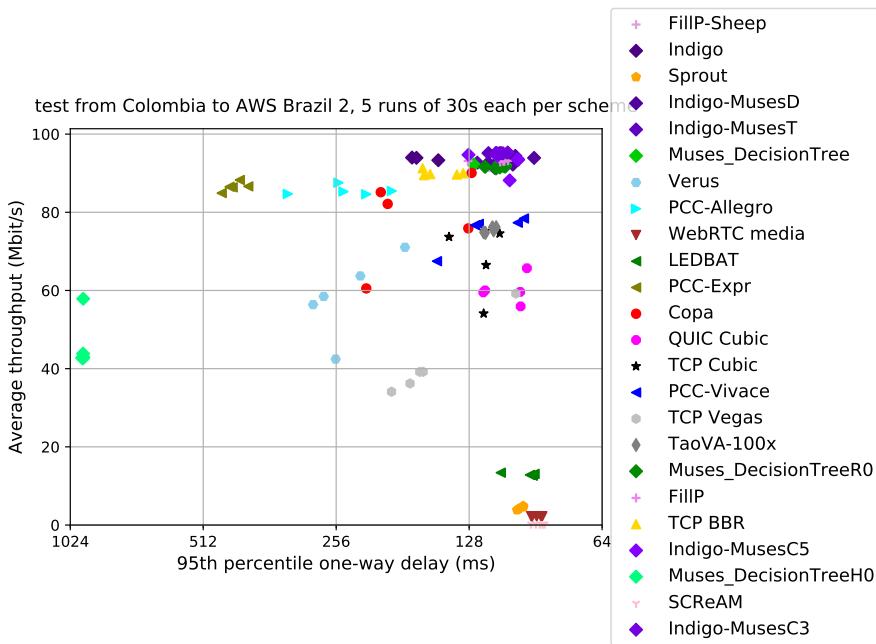
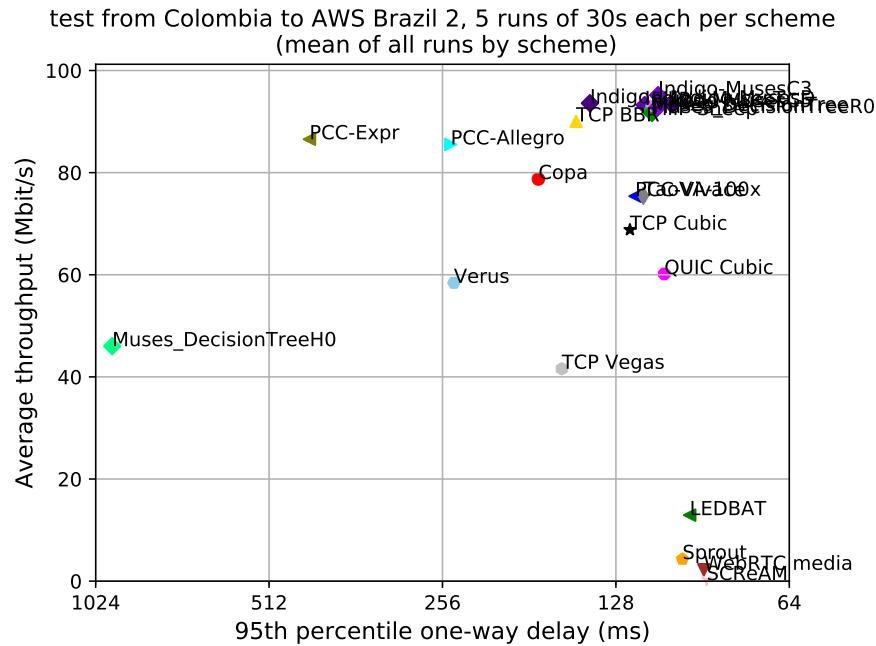
System info:

```
Linux 4.15.0-1045-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

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

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



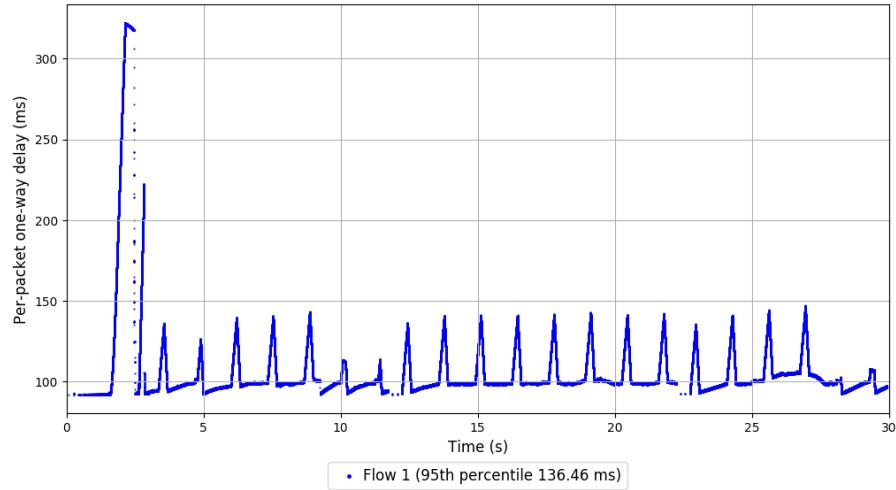
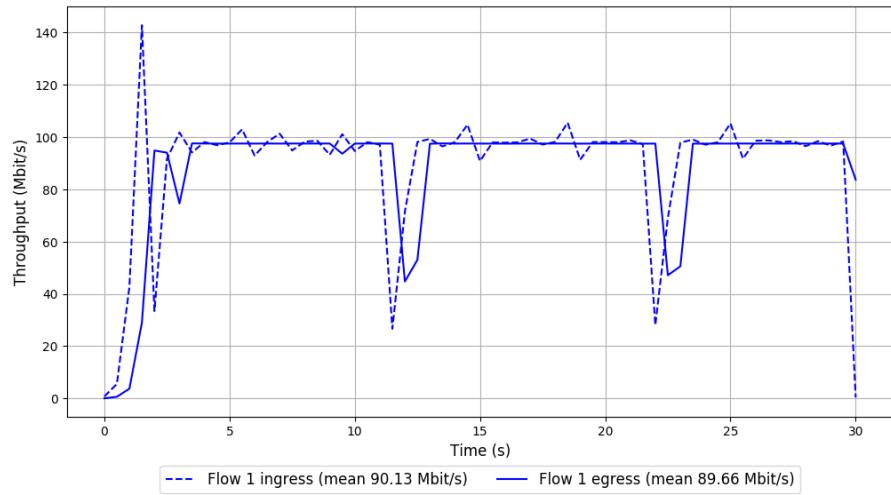
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	90.03	150.08	1.12
Copa	5	78.75	174.48	0.62
TCP Cubic	5	68.81	121.03	0.75
FillP	5	93.06	111.15	0.60
FillP-Sheep	5	91.28	111.32	0.61
Indigo	5	93.60	142.01	1.78
Indigo-MusesC3	5	95.17	108.12	6.28
Indigo-MusesC5	5	92.85	108.22	3.28
Indigo-MusesD	5	93.38	102.32	0.71
Indigo-MusesT	5	93.24	114.10	7.16
LEDBAT	5	12.93	95.32	1.11
Muses_DecisionTree	5	92.09	111.17	2.45
Muses_DecisionTreeH0	5	46.02	958.52	3.69
Muses_DecisionTreeR0	5	91.68	110.82	2.41
PCC-Allegro	5	85.52	247.80	0.70
PCC-Expr	5	86.54	435.76	1.34
QUIC Cubic	5	60.16	105.47	0.81
SCReAM	5	0.22	89.07	0.54
Sprout	5	4.33	98.12	0.63
TaoVA-100x	5	75.47	114.70	0.58
TCP Vegas	5	41.58	158.92	0.56
Verus	5	58.42	244.63	0.89
PCC-Vivace	5	75.39	118.55	0.73
WebRTC media	5	2.22	90.07	0.35

Run 1: Statistics of TCP BBR

```
Start at: 2019-09-18 15:36:05
End at: 2019-09-18 15:36:35
Local clock offset: -0.412 ms
Remote clock offset: 38.567 ms

# Below is generated by plot.py at 2019-09-18 17:54:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.66 Mbit/s
95th percentile per-packet one-way delay: 136.462 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 89.66 Mbit/s
95th percentile per-packet one-way delay: 136.462 ms
Loss rate: 1.07%
```

Run 1: Report of TCP BBR — Data Link

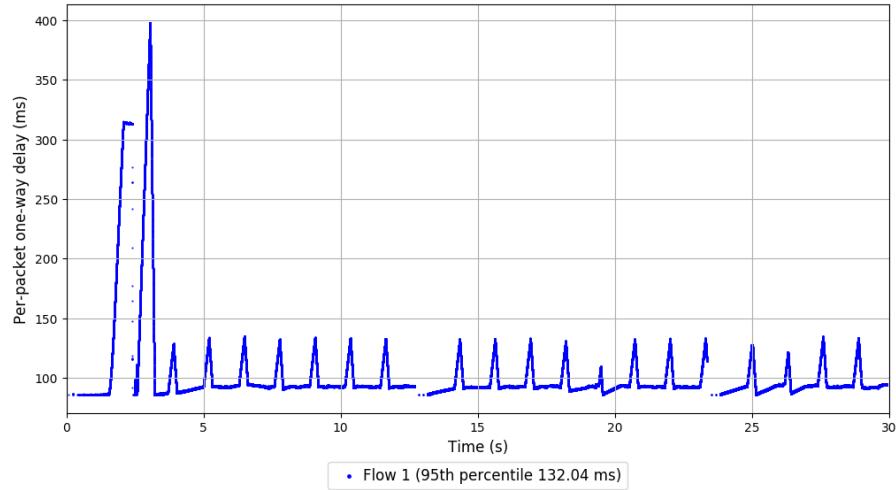
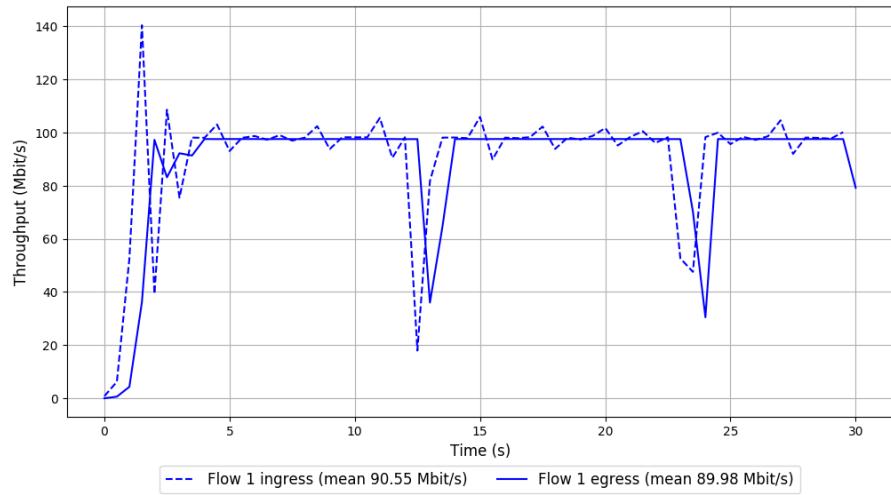


Run 2: Statistics of TCP BBR

```
Start at: 2019-09-18 16:04:32
End at: 2019-09-18 16:05:02
Local clock offset: -2.987 ms
Remote clock offset: 47.807 ms

# Below is generated by plot.py at 2019-09-18 17:54:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.98 Mbit/s
95th percentile per-packet one-way delay: 132.038 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 89.98 Mbit/s
95th percentile per-packet one-way delay: 132.038 ms
Loss rate: 1.17%
```

Run 2: Report of TCP BBR — Data Link

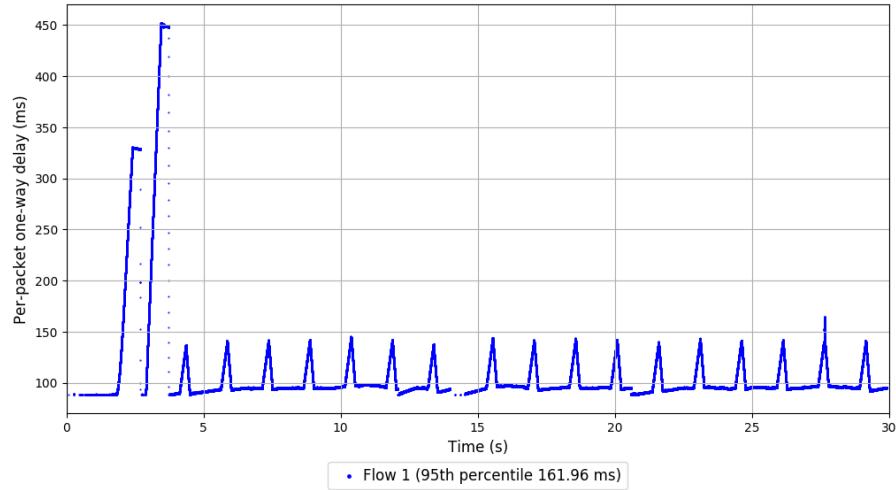
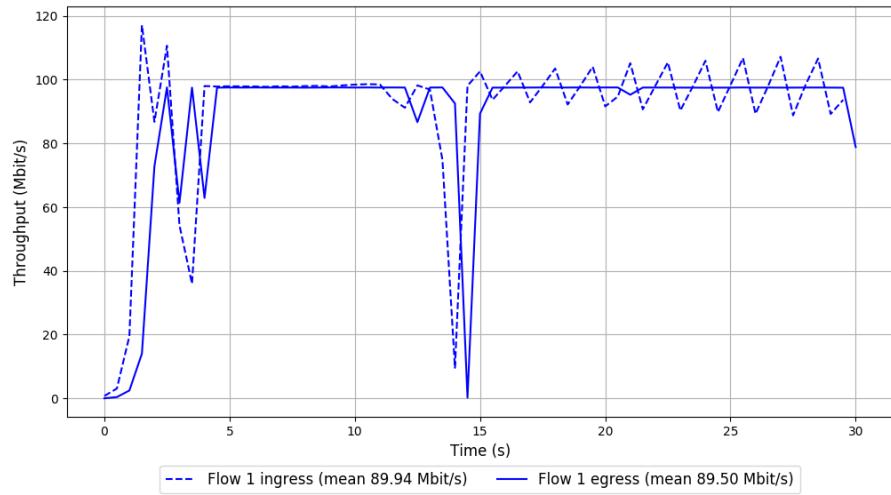


Run 3: Statistics of TCP BBR

```
Start at: 2019-09-18 16:33:00
End at: 2019-09-18 16:33:30
Local clock offset: 4.569 ms
Remote clock offset: 51.987 ms

# Below is generated by plot.py at 2019-09-18 17:54:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.50 Mbit/s
95th percentile per-packet one-way delay: 161.960 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 89.50 Mbit/s
95th percentile per-packet one-way delay: 161.960 ms
Loss rate: 1.02%
```

Run 3: Report of TCP BBR — Data Link

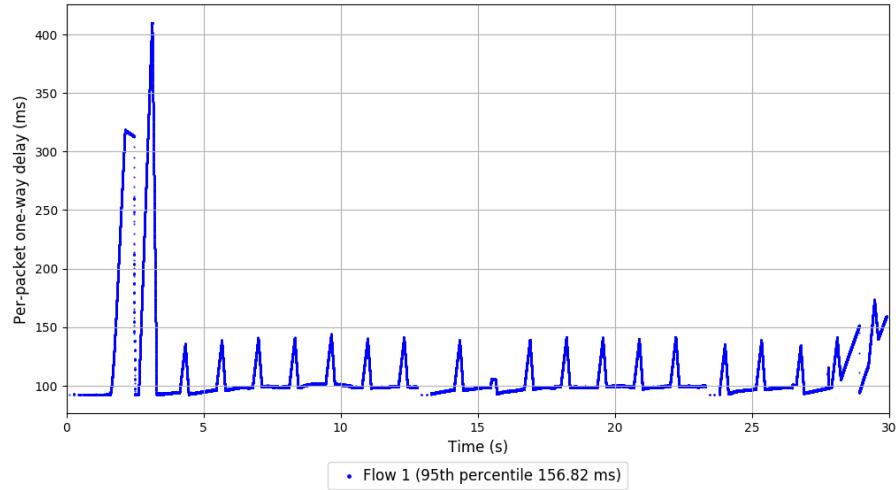
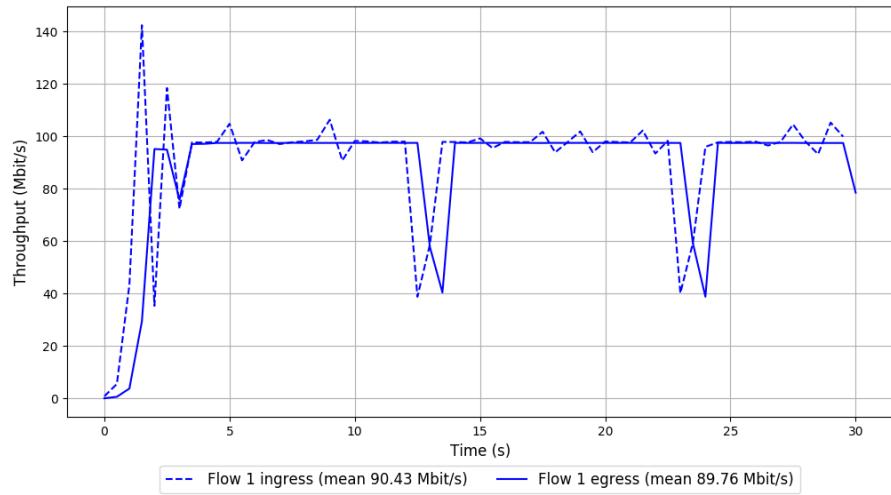


Run 4: Statistics of TCP BBR

```
Start at: 2019-09-18 17:01:26
End at: 2019-09-18 17:01:56
Local clock offset: 4.384 ms
Remote clock offset: 56.881 ms

# Below is generated by plot.py at 2019-09-18 17:54:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 156.818 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 156.818 ms
Loss rate: 1.28%
```

Run 4: Report of TCP BBR — Data Link

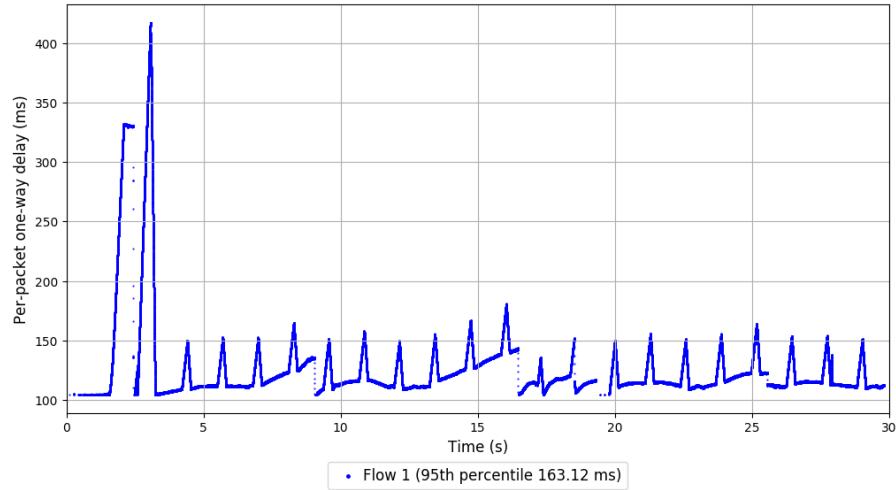
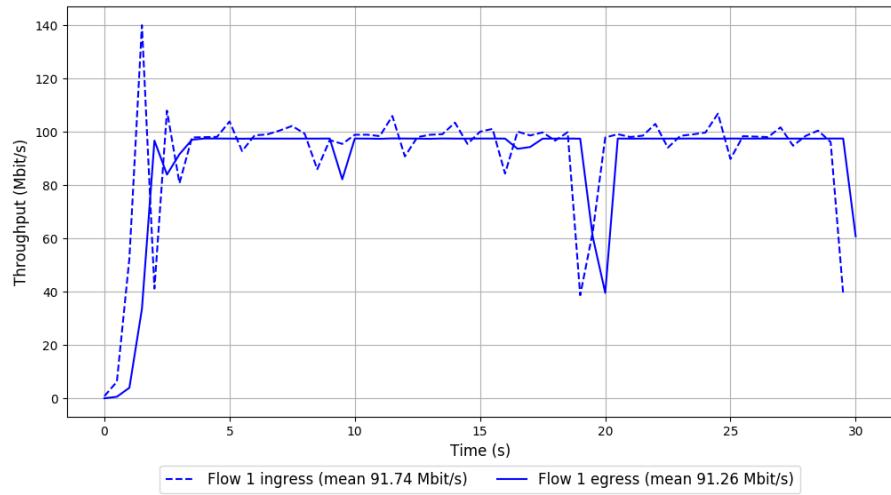


Run 5: Statistics of TCP BBR

```
Start at: 2019-09-18 17:29:52
End at: 2019-09-18 17:30:22
Local clock offset: 21.788 ms
Remote clock offset: 63.507 ms

# Below is generated by plot.py at 2019-09-18 17:54:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 163.117 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 163.117 ms
Loss rate: 1.06%
```

Run 5: Report of TCP BBR — Data Link

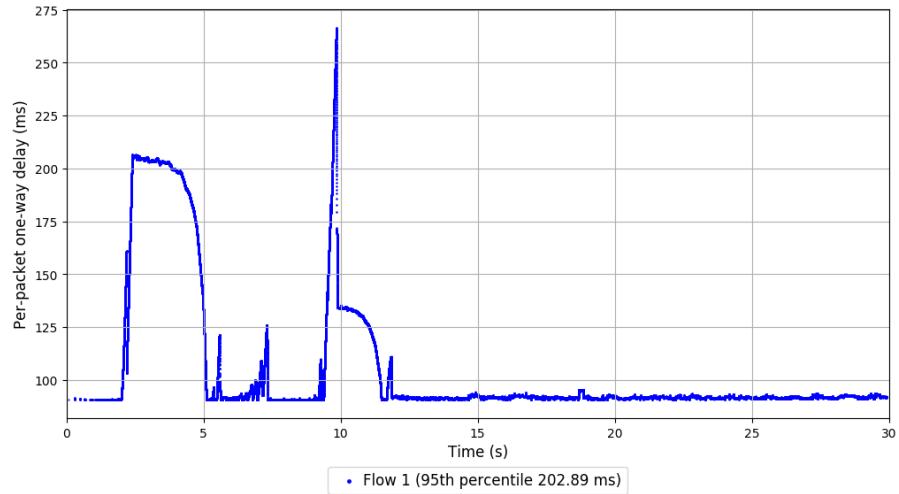
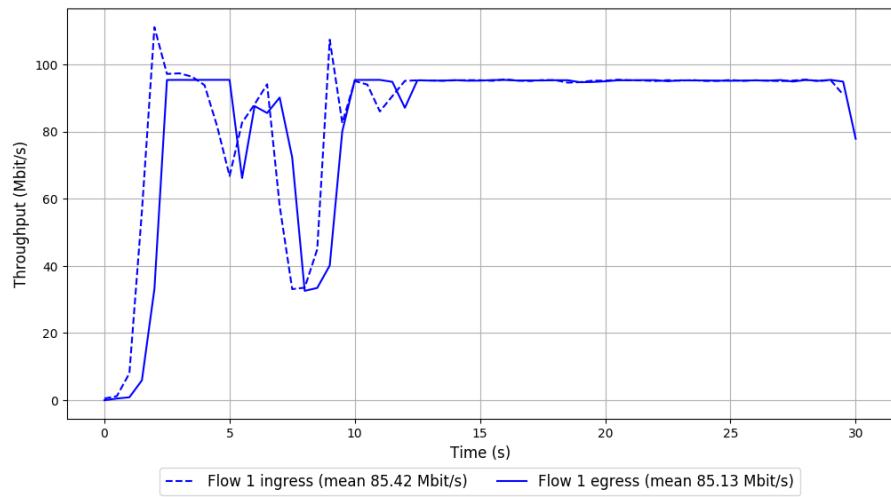


Run 1: Statistics of Copa

```
Start at: 2019-09-18 15:43:09
End at: 2019-09-18 15:43:39
Local clock offset: -2.733 ms
Remote clock offset: 39.131 ms

# Below is generated by plot.py at 2019-09-18 17:55:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.13 Mbit/s
95th percentile per-packet one-way delay: 202.894 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 85.13 Mbit/s
95th percentile per-packet one-way delay: 202.894 ms
Loss rate: 0.87%
```

Run 1: Report of Copa — Data Link

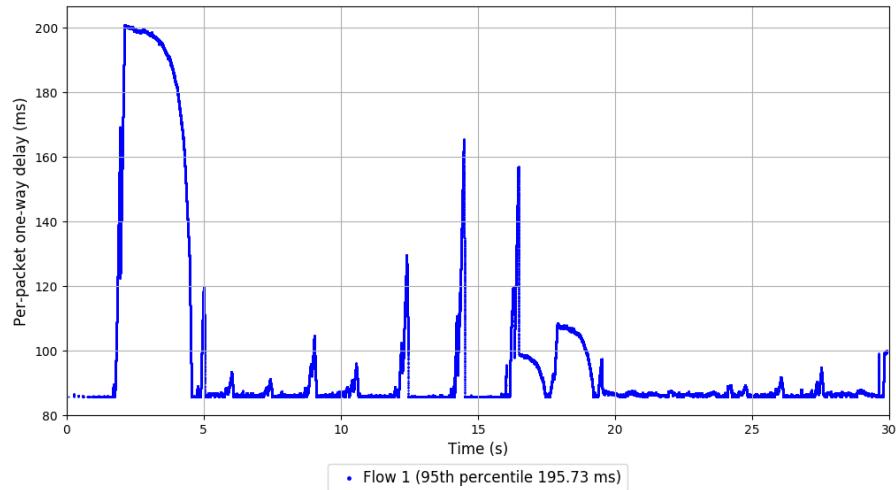
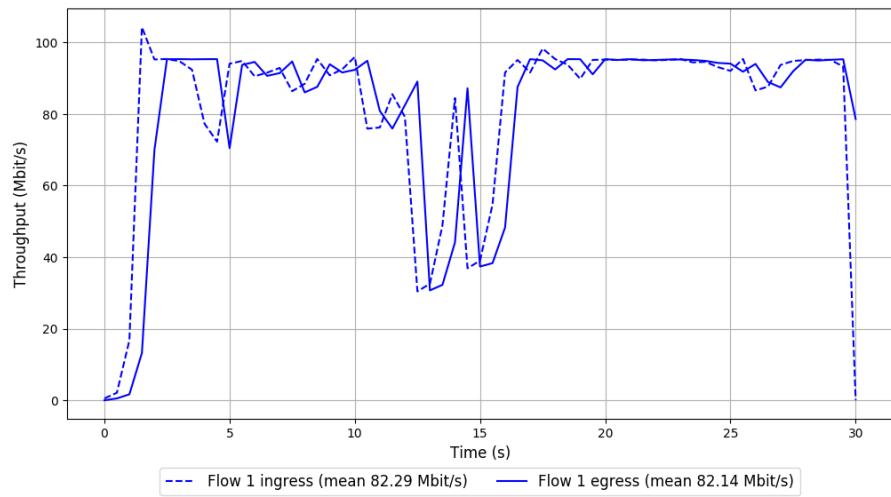


Run 2: Statistics of Copa

```
Start at: 2019-09-18 16:11:38
End at: 2019-09-18 16:12:08
Local clock offset: 1.341 ms
Remote clock offset: 49.485 ms

# Below is generated by plot.py at 2019-09-18 17:55:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.14 Mbit/s
95th percentile per-packet one-way delay: 195.727 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 82.14 Mbit/s
95th percentile per-packet one-way delay: 195.727 ms
Loss rate: 0.72%
```

Run 2: Report of Copa — Data Link

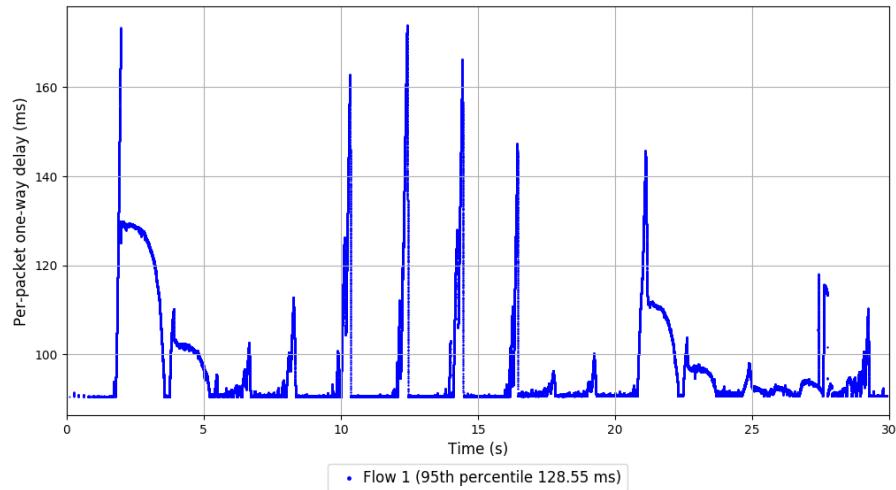
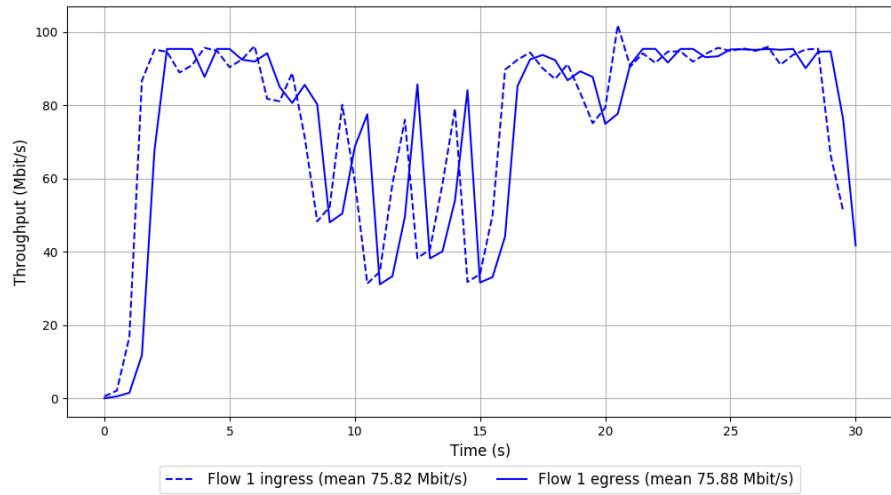


Run 3: Statistics of Copa

```
Start at: 2019-09-18 16:40:05
End at: 2019-09-18 16:40:35
Local clock offset: 4.637 ms
Remote clock offset: 54.849 ms

# Below is generated by plot.py at 2019-09-18 17:55:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.88 Mbit/s
95th percentile per-packet one-way delay: 128.552 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 75.88 Mbit/s
95th percentile per-packet one-way delay: 128.552 ms
Loss rate: 0.47%
```

Run 3: Report of Copa — Data Link

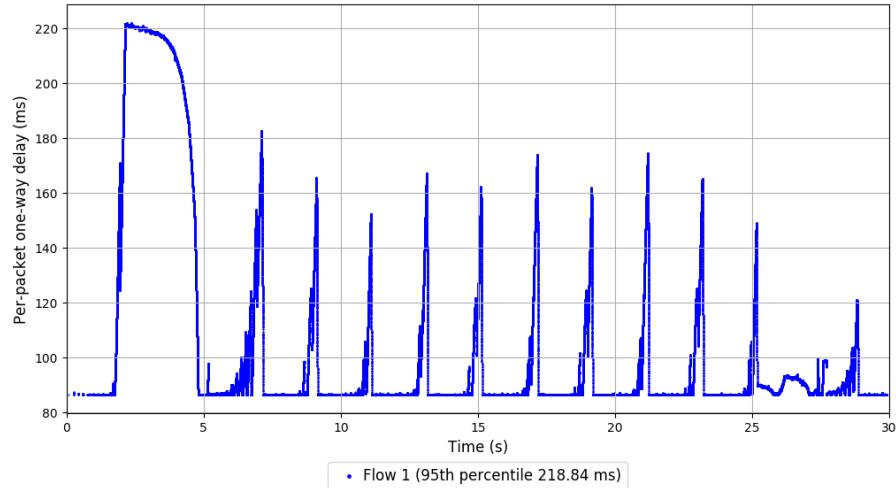
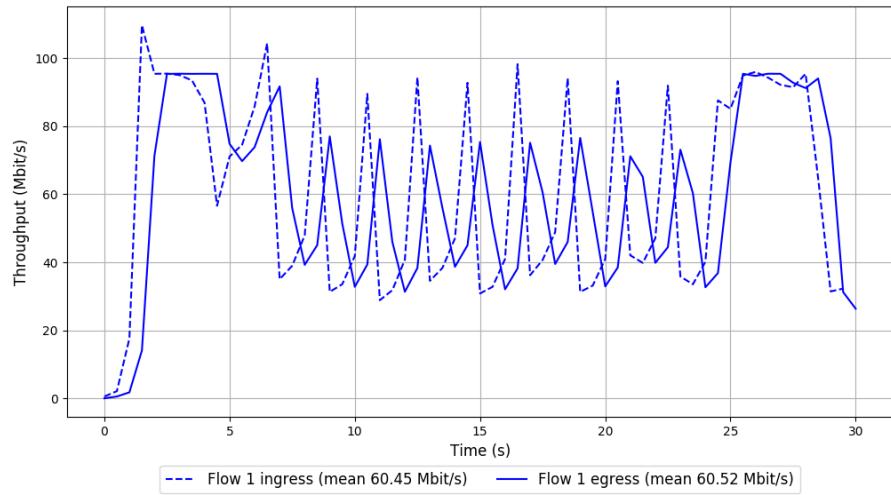


Run 4: Statistics of Copa

```
Start at: 2019-09-18 17:08:32
End at: 2019-09-18 17:09:02
Local clock offset: 3.325 ms
Remote clock offset: 59.49 ms

# Below is generated by plot.py at 2019-09-18 17:56:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.52 Mbit/s
95th percentile per-packet one-way delay: 218.845 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 60.52 Mbit/s
95th percentile per-packet one-way delay: 218.845 ms
Loss rate: 0.41%
```

Run 4: Report of Copa — Data Link

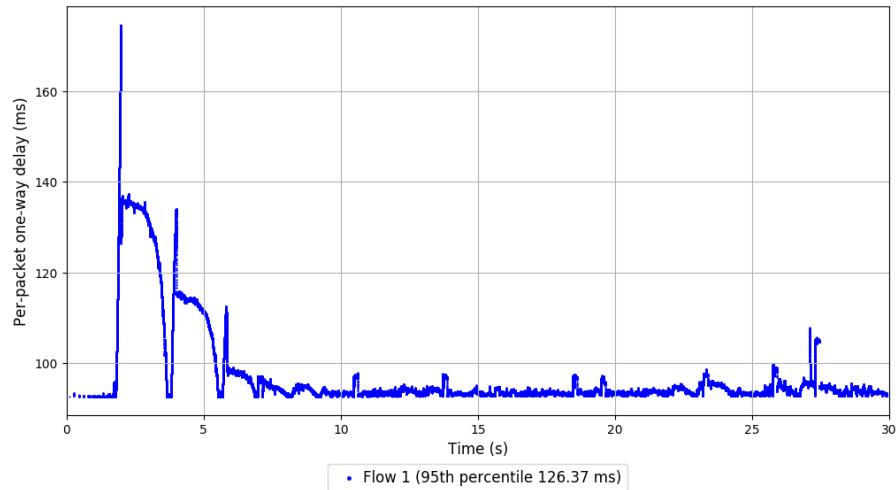
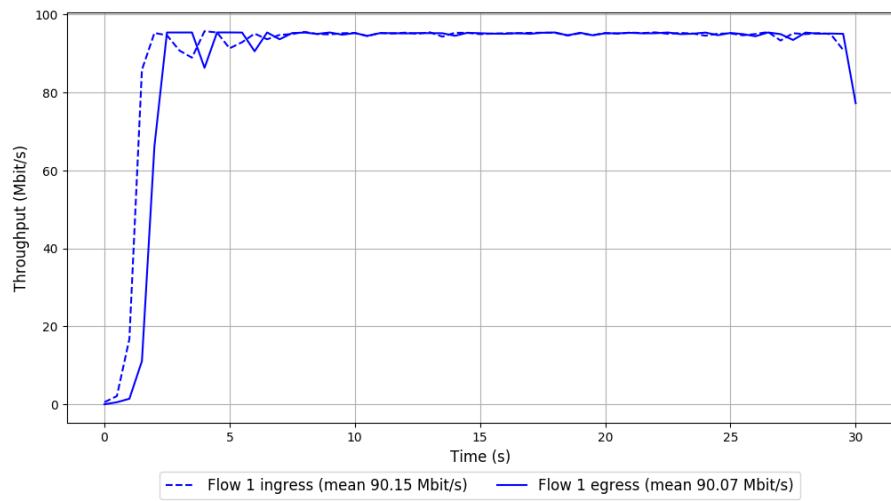


Run 5: Statistics of Copa

```
Start at: 2019-09-18 17:36:58
End at: 2019-09-18 17:37:28
Local clock offset: 3.174 ms
Remote clock offset: 63.226 ms

# Below is generated by plot.py at 2019-09-18 17:56:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.07 Mbit/s
95th percentile per-packet one-way delay: 126.374 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 90.07 Mbit/s
95th percentile per-packet one-way delay: 126.374 ms
Loss rate: 0.64%
```

Run 5: Report of Copa — Data Link

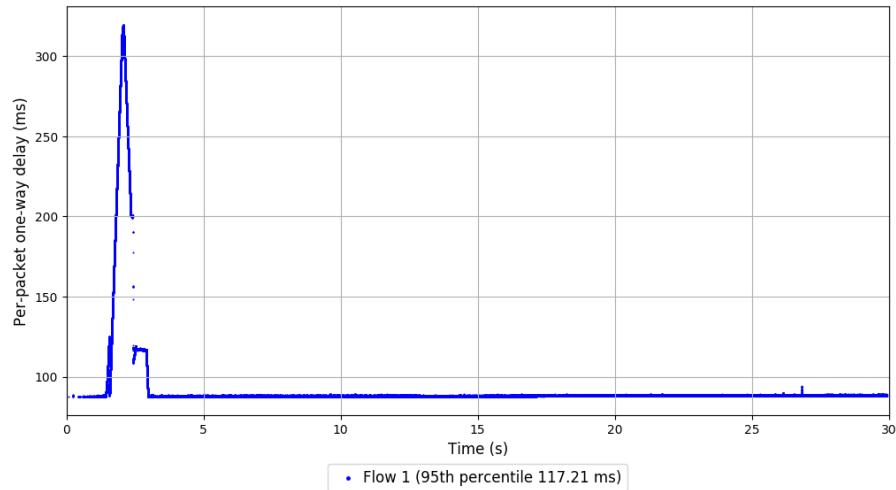
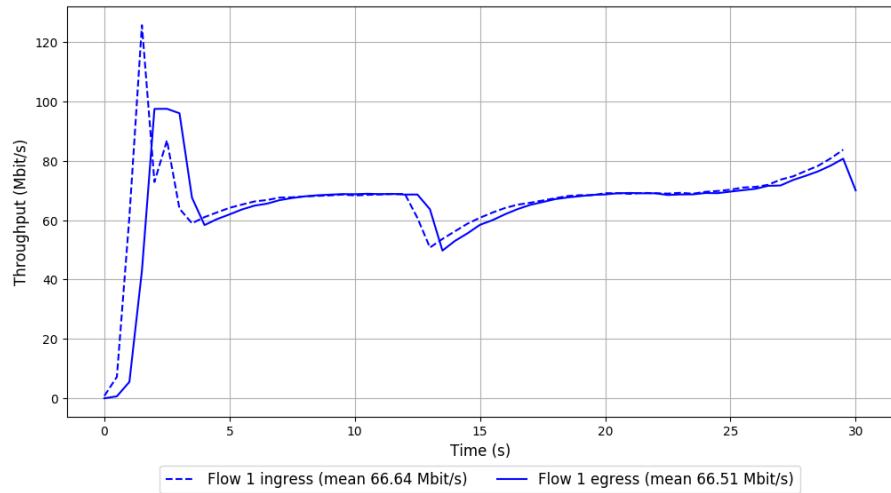


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-09-18 15:40:51
End at: 2019-09-18 15:41:21
Local clock offset: -1.98 ms
Remote clock offset: 41.426 ms

# Below is generated by plot.py at 2019-09-18 17:56:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.51 Mbit/s
95th percentile per-packet one-way delay: 117.212 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 66.51 Mbit/s
95th percentile per-packet one-way delay: 117.212 ms
Loss rate: 0.72%
```

Run 1: Report of TCP Cubic — Data Link

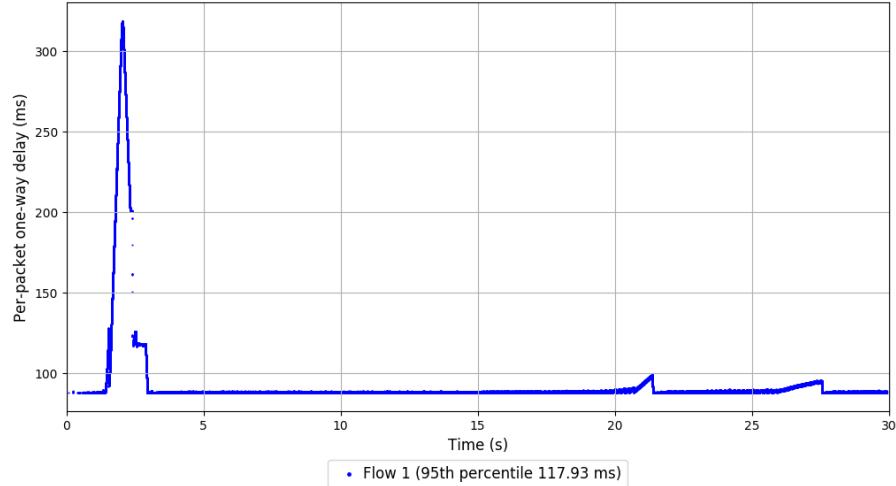
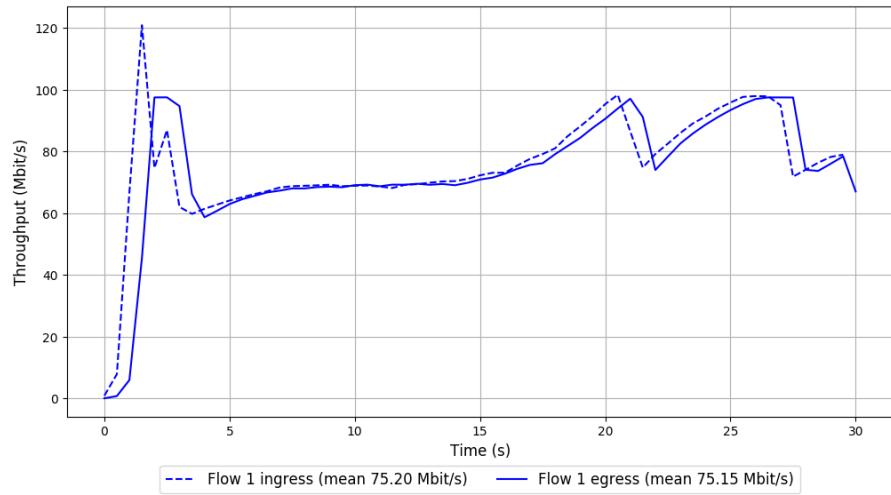


Run 2: Statistics of TCP Cubic

```
Start at: 2019-09-18 16:09:19
End at: 2019-09-18 16:09:49
Local clock offset: 1.042 ms
Remote clock offset: 47.634 ms

# Below is generated by plot.py at 2019-09-18 17:56:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.15 Mbit/s
95th percentile per-packet one-way delay: 117.929 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 75.15 Mbit/s
95th percentile per-packet one-way delay: 117.929 ms
Loss rate: 0.61%
```

Run 2: Report of TCP Cubic — Data Link

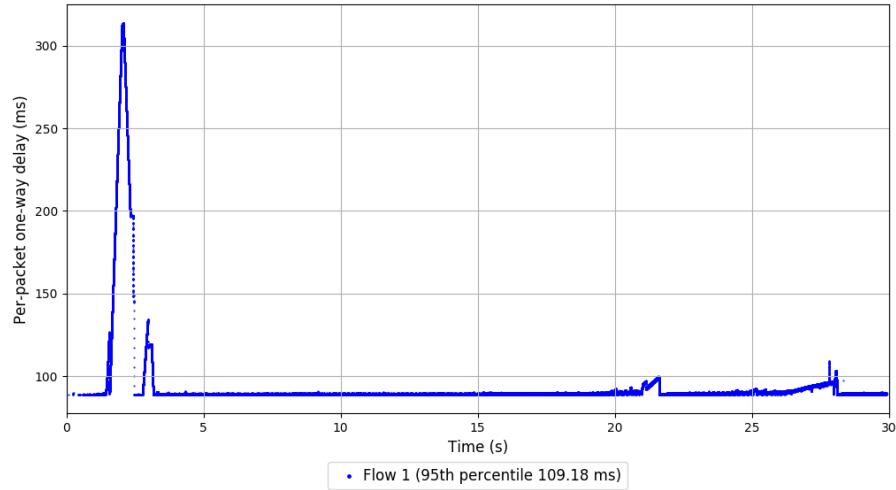
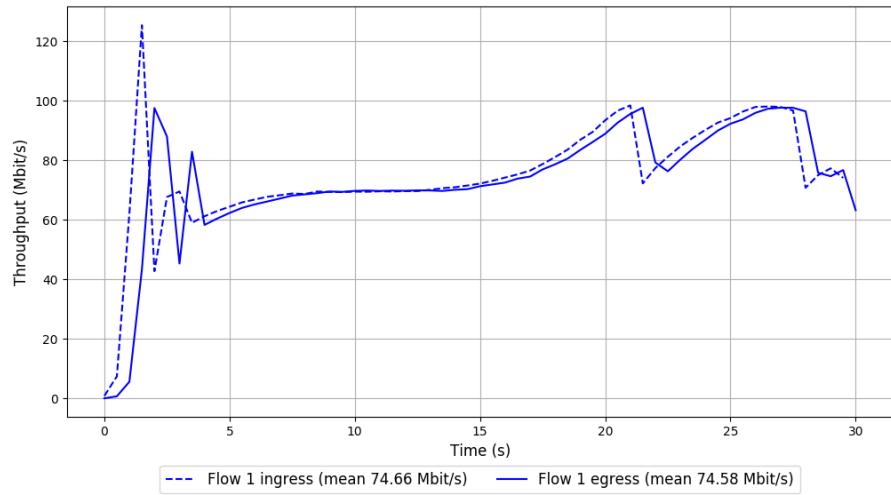


Run 3: Statistics of TCP Cubic

```
Start at: 2019-09-18 16:37:47
End at: 2019-09-18 16:38:17
Local clock offset: 4.802 ms
Remote clock offset: 52.769 ms

# Below is generated by plot.py at 2019-09-18 17:56:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.58 Mbit/s
95th percentile per-packet one-way delay: 109.180 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 74.58 Mbit/s
95th percentile per-packet one-way delay: 109.180 ms
Loss rate: 0.65%
```

Run 3: Report of TCP Cubic — Data Link

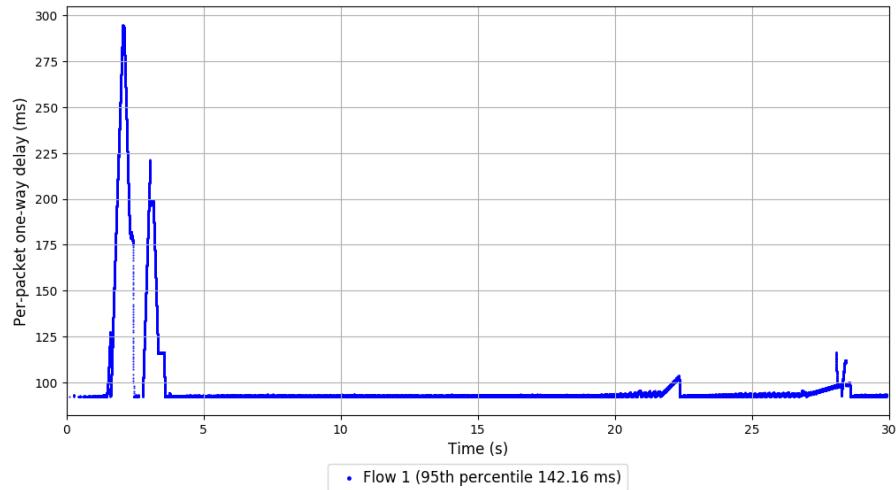
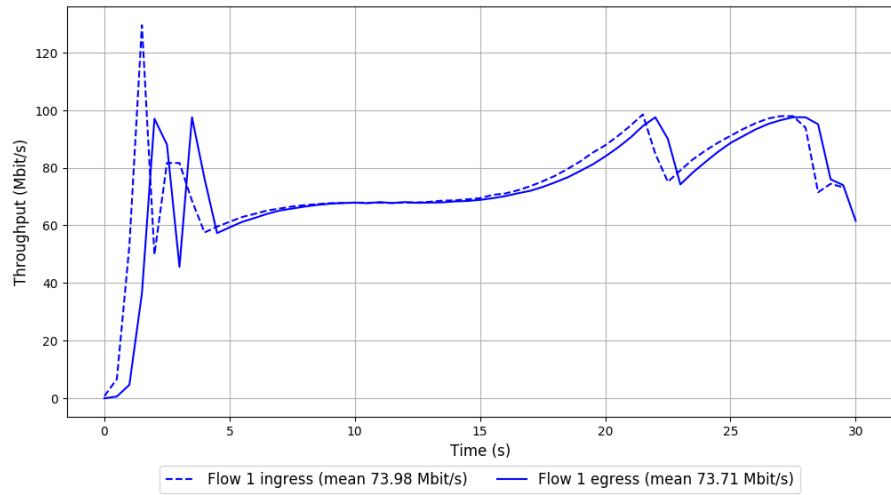


Run 4: Statistics of TCP Cubic

```
Start at: 2019-09-18 17:06:13
End at: 2019-09-18 17:06:43
Local clock offset: 4.18 ms
Remote clock offset: 57.977 ms

# Below is generated by plot.py at 2019-09-18 17:56:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.71 Mbit/s
95th percentile per-packet one-way delay: 142.155 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 73.71 Mbit/s
95th percentile per-packet one-way delay: 142.155 ms
Loss rate: 0.91%
```

Run 4: Report of TCP Cubic — Data Link

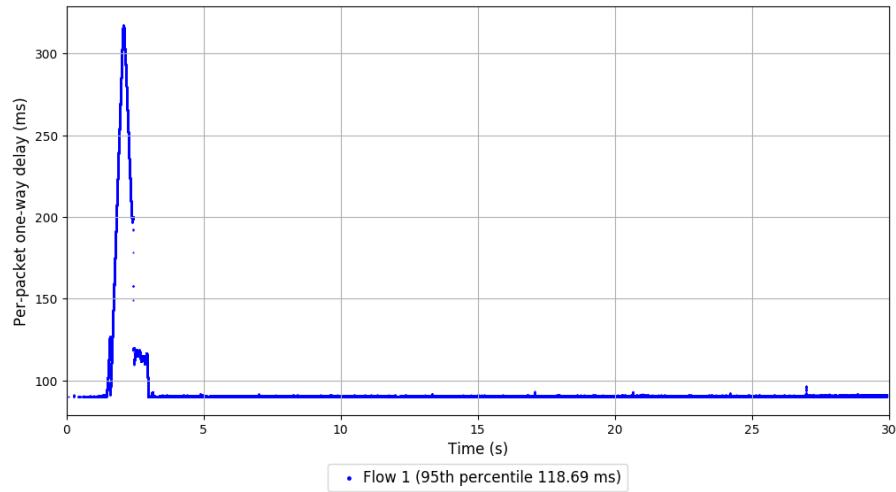
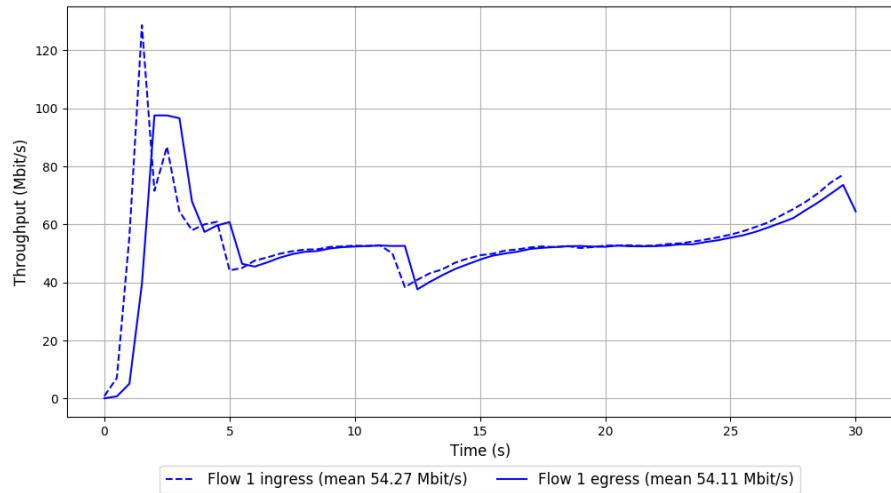


Run 5: Statistics of TCP Cubic

```
Start at: 2019-09-18 17:34:40
End at: 2019-09-18 17:35:10
Local clock offset: 2.588 ms
Remote clock offset: 64.406 ms

# Below is generated by plot.py at 2019-09-18 17:56:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.11 Mbit/s
95th percentile per-packet one-way delay: 118.686 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 54.11 Mbit/s
95th percentile per-packet one-way delay: 118.686 ms
Loss rate: 0.85%
```

Run 5: Report of TCP Cubic — Data Link

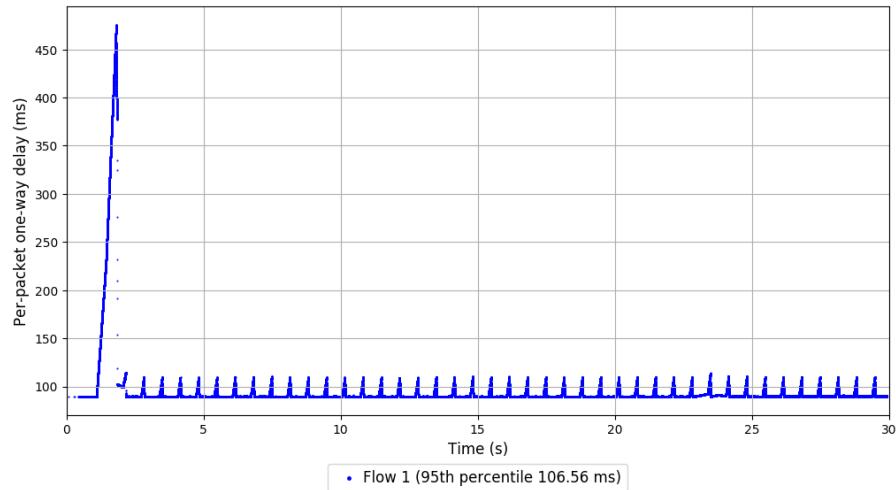
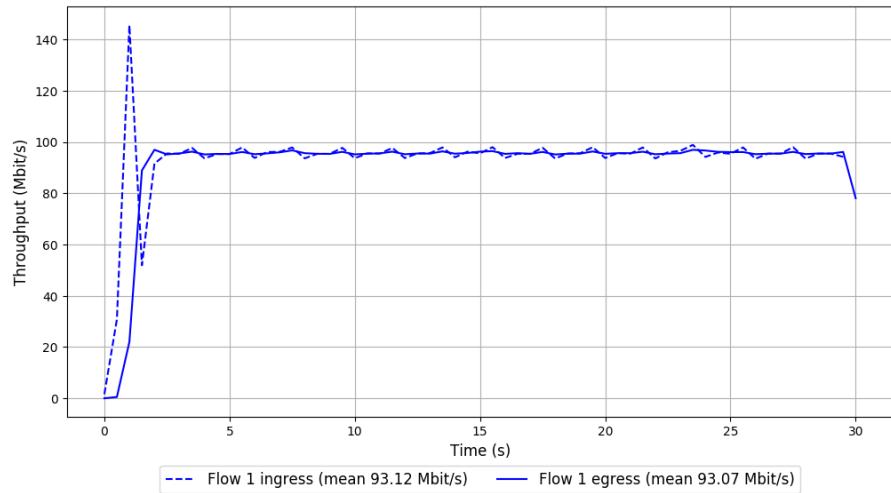


```
Run 1: Statistics of FillP
```

```
Start at: 2019-09-18 15:38:28
End at: 2019-09-18 15:38:58
Local clock offset: -1.656 ms
Remote clock offset: 41.424 ms

# Below is generated by plot.py at 2019-09-18 17:56:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 106.556 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 106.556 ms
Loss rate: 0.60%
```

Run 1: Report of FillP — Data Link

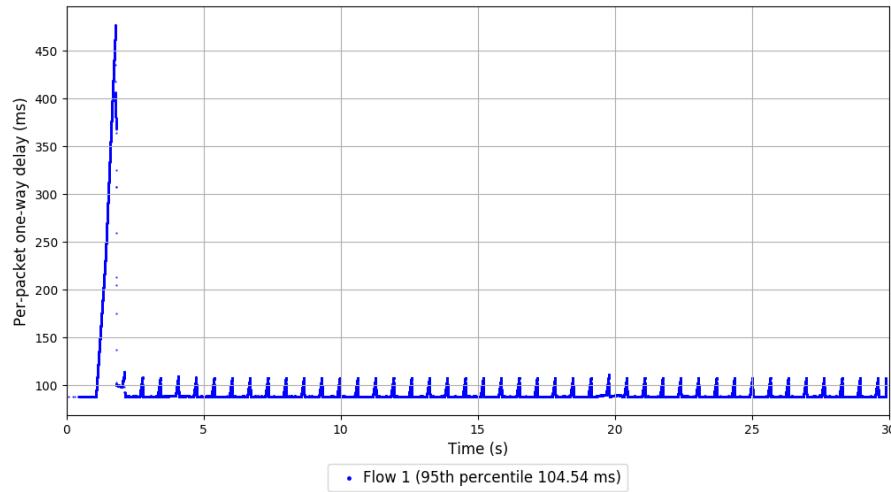
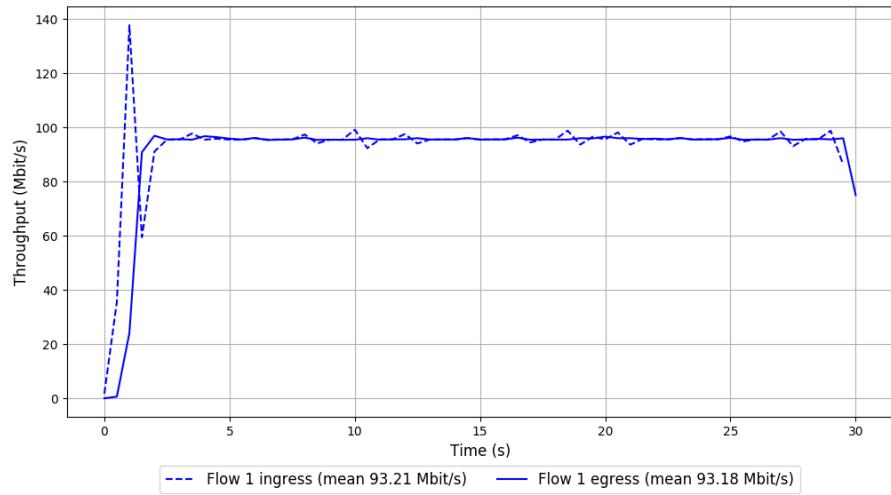


Run 2: Statistics of FillP

```
Start at: 2019-09-18 16:06:56
End at: 2019-09-18 16:07:26
Local clock offset: -1.142 ms
Remote clock offset: 46.702 ms

# Below is generated by plot.py at 2019-09-18 17:56:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.18 Mbit/s
95th percentile per-packet one-way delay: 104.536 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 93.18 Mbit/s
95th percentile per-packet one-way delay: 104.536 ms
Loss rate: 0.57%
```

Run 2: Report of FillP — Data Link

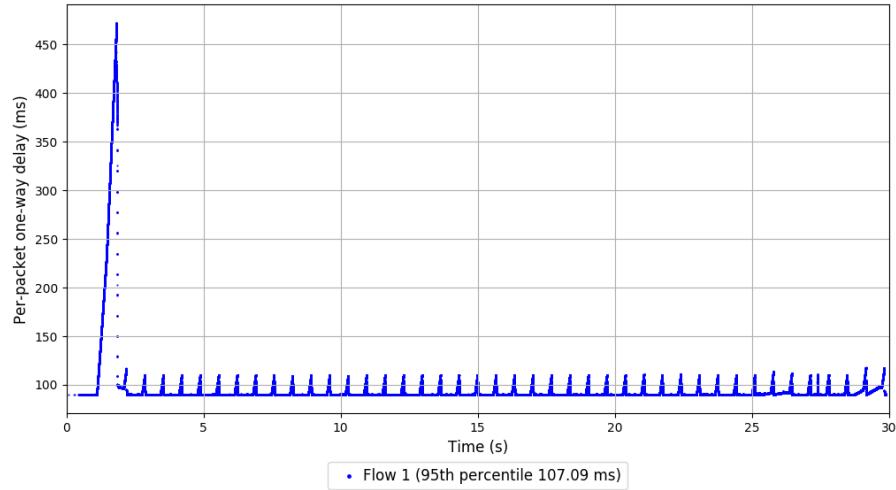
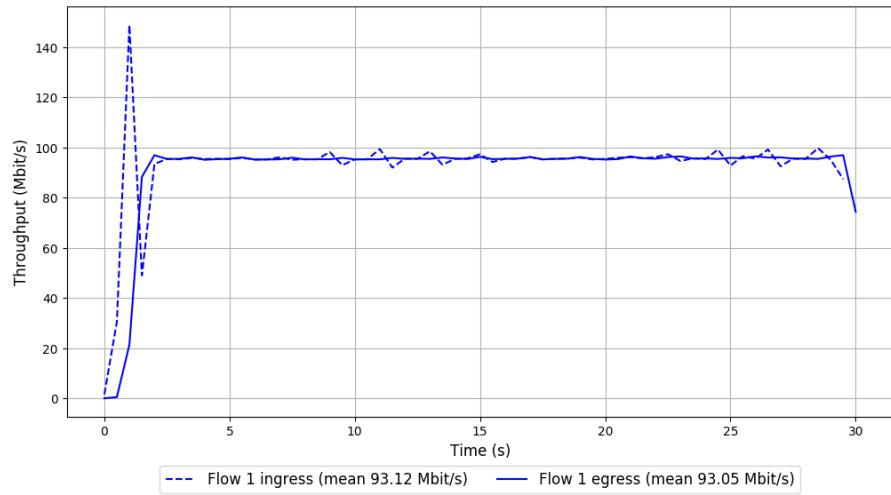


```
Run 3: Statistics of FillP
```

```
Start at: 2019-09-18 16:35:24
End at: 2019-09-18 16:35:54
Local clock offset: 4.236 ms
Remote clock offset: 54.479 ms

# Below is generated by plot.py at 2019-09-18 17:56:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.05 Mbit/s
95th percentile per-packet one-way delay: 107.087 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 93.05 Mbit/s
95th percentile per-packet one-way delay: 107.087 ms
Loss rate: 0.63%
```

Run 3: Report of FillP — Data Link

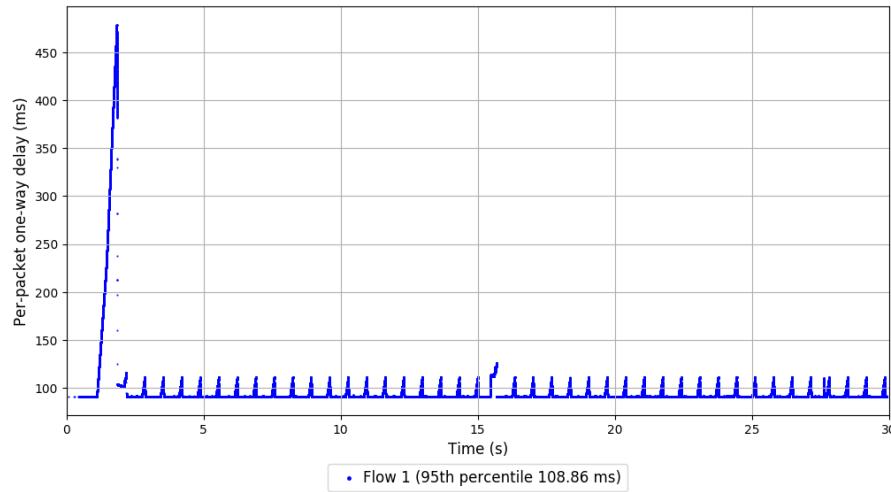
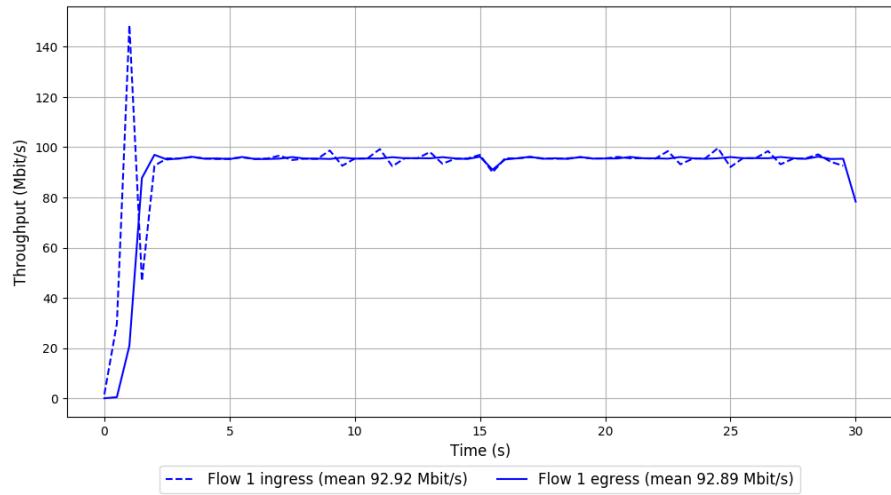


Run 4: Statistics of FillP

```
Start at: 2019-09-18 17:03:50
End at: 2019-09-18 17:04:20
Local clock offset: 3.406 ms
Remote clock offset: 58.224 ms

# Below is generated by plot.py at 2019-09-18 17:56:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.89 Mbit/s
95th percentile per-packet one-way delay: 108.859 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 92.89 Mbit/s
95th percentile per-packet one-way delay: 108.859 ms
Loss rate: 0.58%
```

Run 4: Report of FillP — Data Link

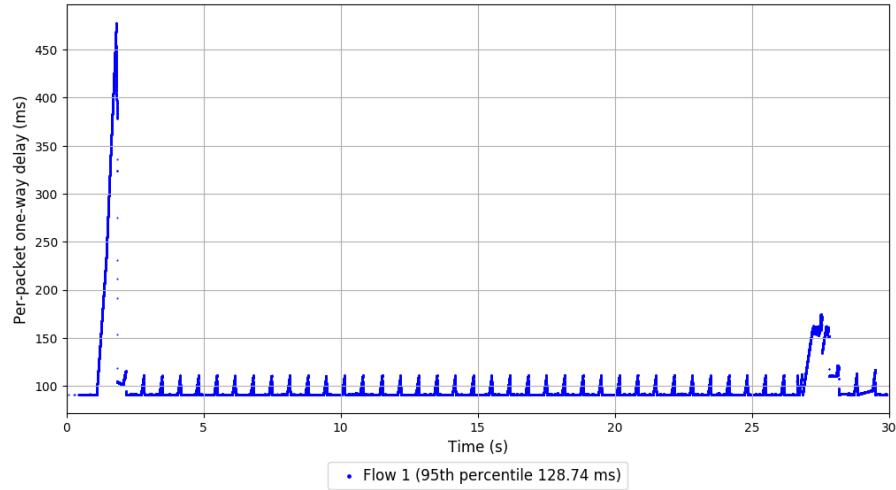
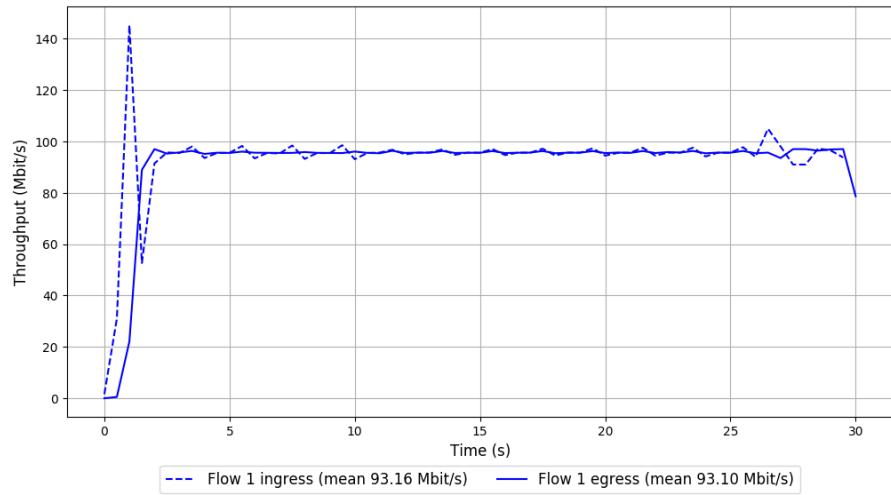


Run 5: Statistics of FillP

```
Start at: 2019-09-18 17:32:17
End at: 2019-09-18 17:32:47
Local clock offset: 3.026 ms
Remote clock offset: 62.757 ms

# Below is generated by plot.py at 2019-09-18 17:57:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.10 Mbit/s
95th percentile per-packet one-way delay: 128.735 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 93.10 Mbit/s
95th percentile per-packet one-way delay: 128.735 ms
Loss rate: 0.61%
```

Run 5: Report of FillP — Data Link

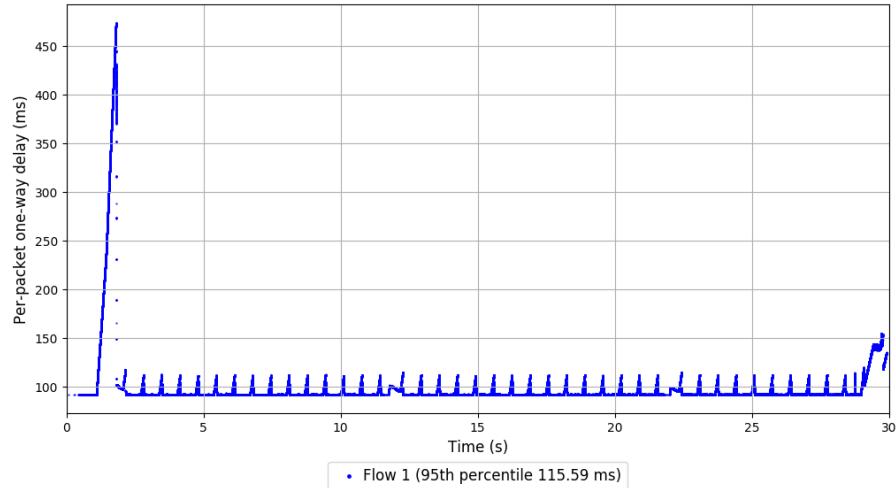
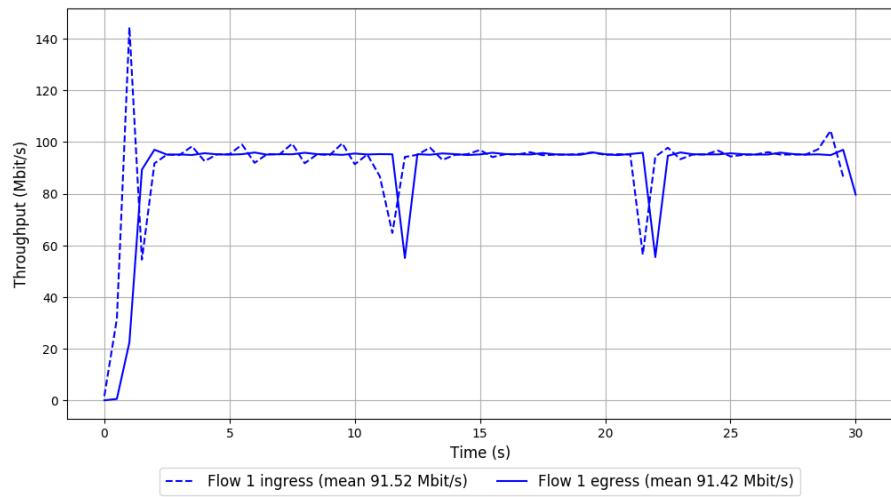


Run 1: Statistics of FillP-Sheep

```
Start at: 2019-09-18 15:44:24
End at: 2019-09-18 15:44:54
Local clock offset: -3.168 ms
Remote clock offset: 41.864 ms

# Below is generated by plot.py at 2019-09-18 17:57:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.42 Mbit/s
95th percentile per-packet one-way delay: 115.595 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 91.42 Mbit/s
95th percentile per-packet one-way delay: 115.595 ms
Loss rate: 0.66%
```

Run 1: Report of FillP-Sheep — Data Link

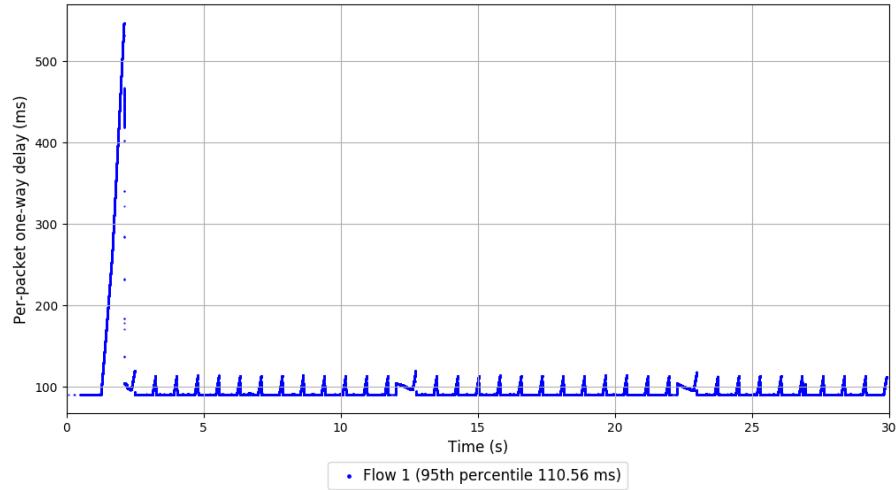
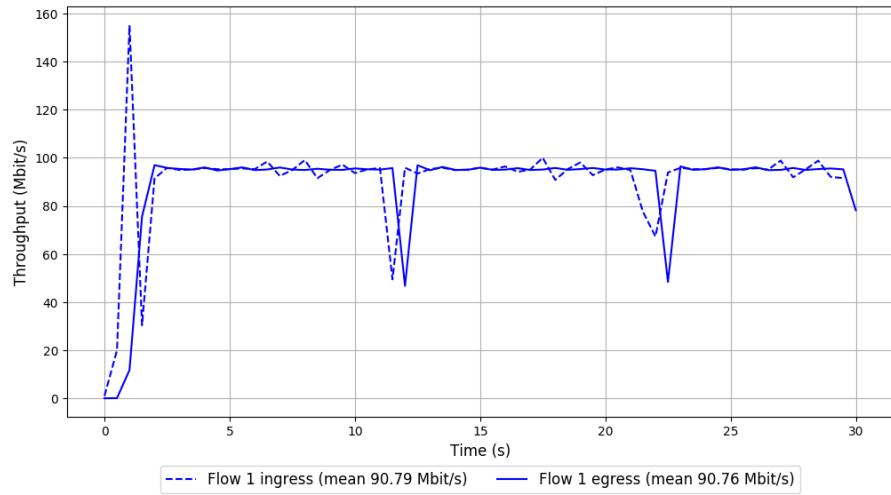


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-09-18 16:12:52
End at: 2019-09-18 16:13:22
Local clock offset: 2.571 ms
Remote clock offset: 50.096 ms

# Below is generated by plot.py at 2019-09-18 17:57:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 110.561 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 110.561 ms
Loss rate: 0.59%
```

Run 2: Report of FillP-Sheep — Data Link

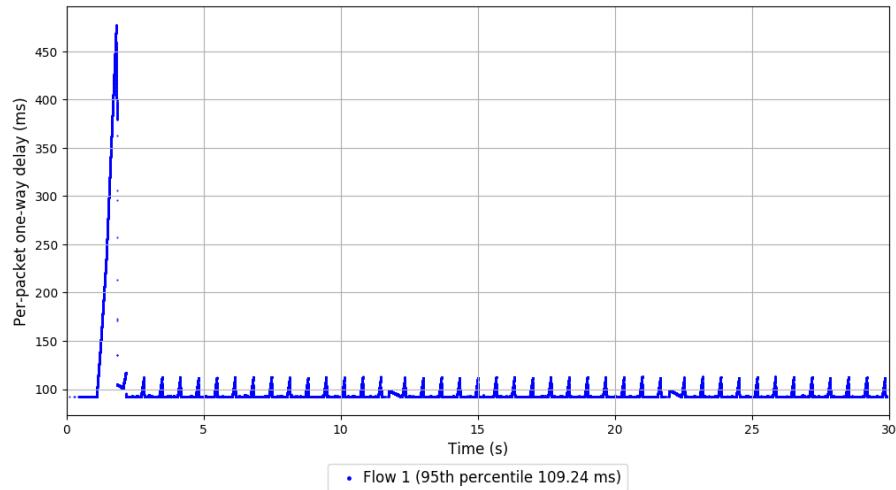
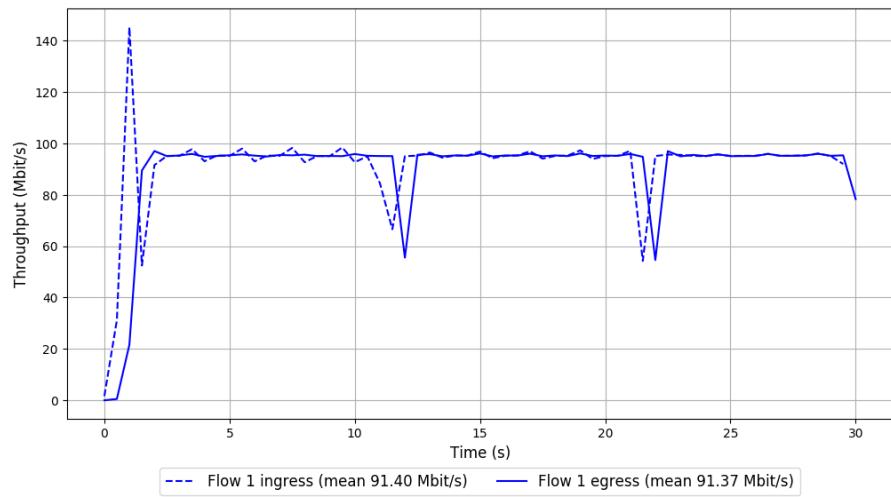


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-09-18 16:41:19
End at: 2019-09-18 16:41:49
Local clock offset: 4.579 ms
Remote clock offset: 53.12 ms

# Below is generated by plot.py at 2019-09-18 17:58:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.37 Mbit/s
95th percentile per-packet one-way delay: 109.244 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 91.37 Mbit/s
95th percentile per-packet one-way delay: 109.244 ms
Loss rate: 0.58%
```

Run 3: Report of FillP-Sheep — Data Link

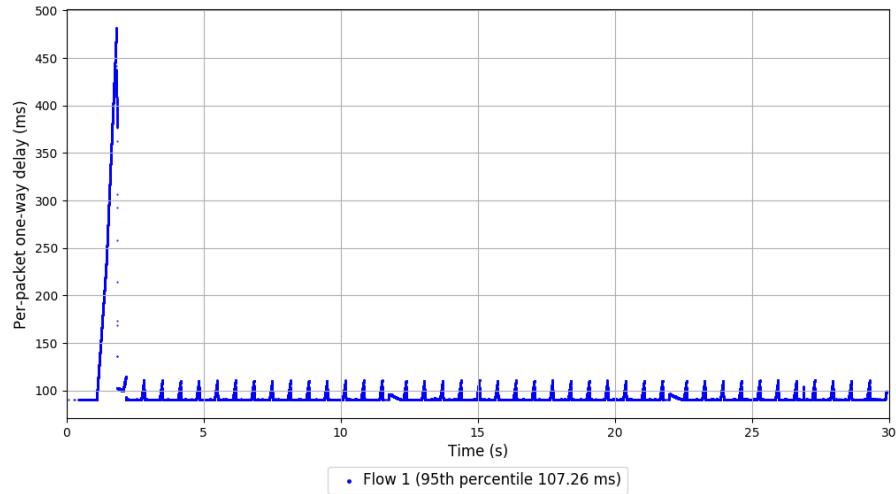
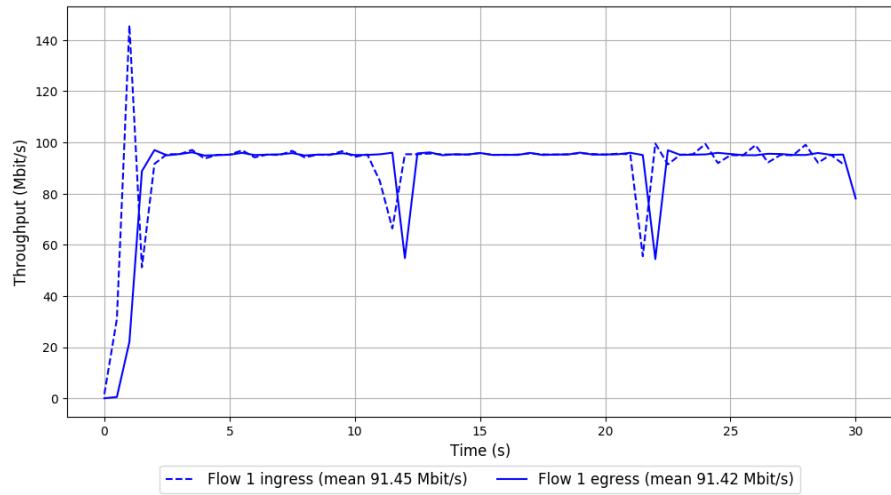


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-09-18 17:09:44
End at: 2019-09-18 17:10:14
Local clock offset: 4.076 ms
Remote clock offset: 60.014 ms

# Below is generated by plot.py at 2019-09-18 17:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.42 Mbit/s
95th percentile per-packet one-way delay: 107.262 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 91.42 Mbit/s
95th percentile per-packet one-way delay: 107.262 ms
Loss rate: 0.57%
```

Run 4: Report of FillP-Sheep — Data Link

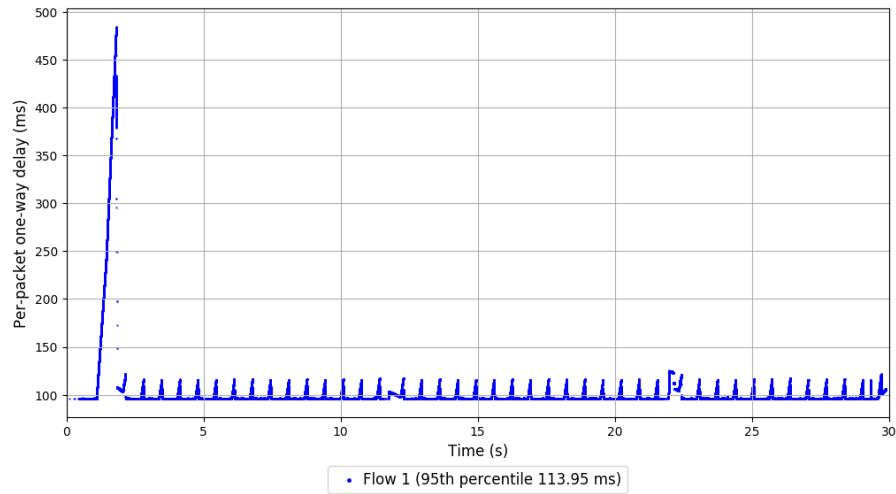
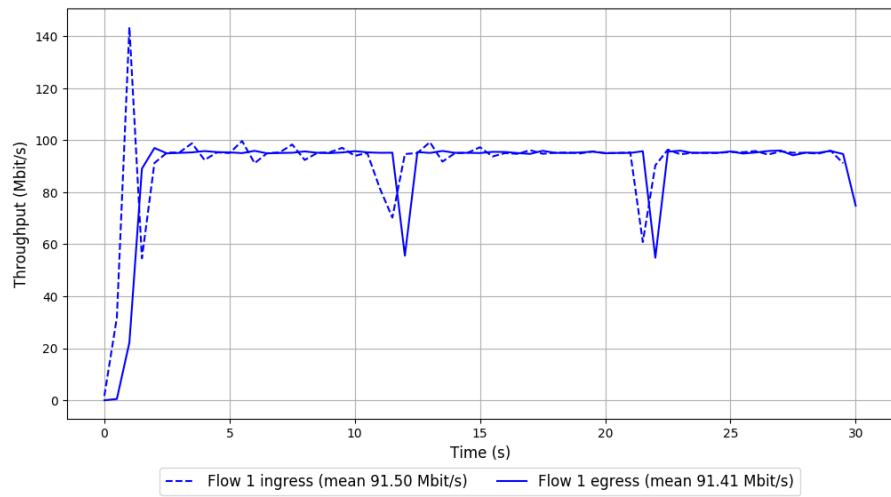


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-09-18 17:38:13
End at: 2019-09-18 17:38:43
Local clock offset: 2.988 ms
Remote clock offset: 59.998 ms

# Below is generated by plot.py at 2019-09-18 17:58:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.41 Mbit/s
95th percentile per-packet one-way delay: 113.955 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 91.41 Mbit/s
95th percentile per-packet one-way delay: 113.955 ms
Loss rate: 0.66%
```

Run 5: Report of FillP-Sheep — Data Link

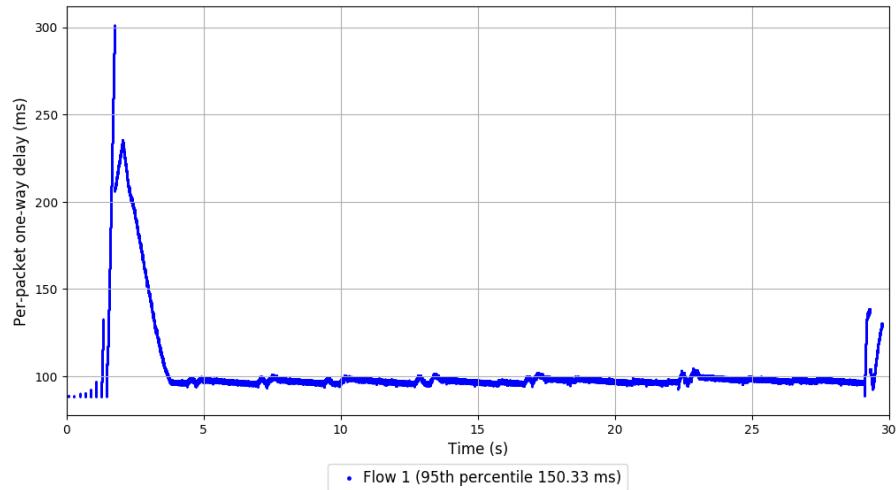
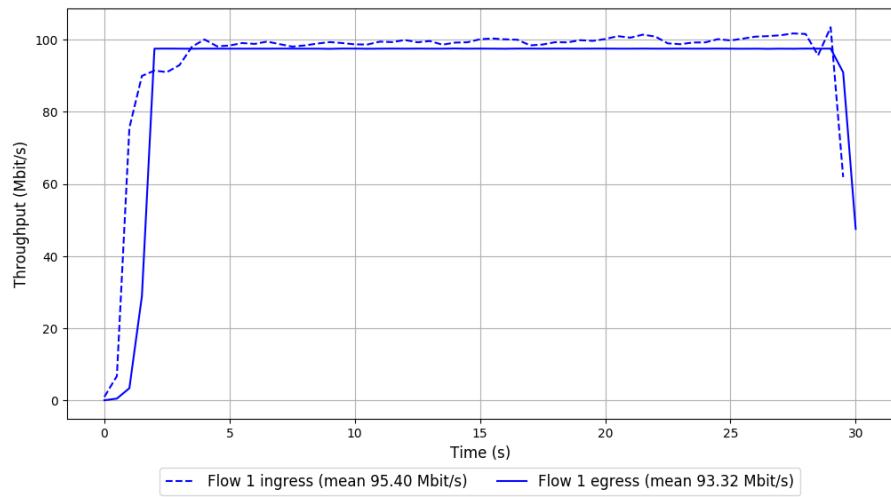


Run 1: Statistics of Indigo

```
Start at: 2019-09-18 15:50:15
End at: 2019-09-18 15:50:45
Local clock offset: -4.573 ms
Remote clock offset: 42.693 ms

# Below is generated by plot.py at 2019-09-18 17:58:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.32 Mbit/s
95th percentile per-packet one-way delay: 150.331 ms
Loss rate: 2.71%
-- Flow 1:
Average throughput: 93.32 Mbit/s
95th percentile per-packet one-way delay: 150.331 ms
Loss rate: 2.71%
```

Run 1: Report of Indigo — Data Link

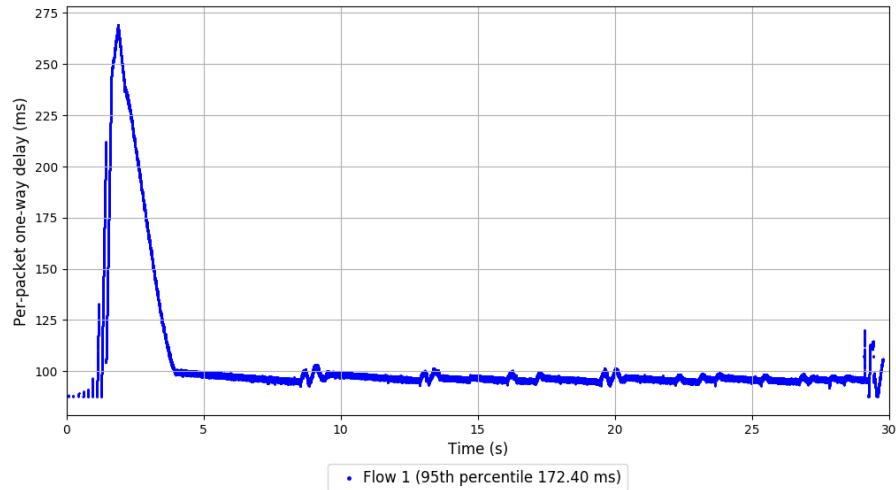
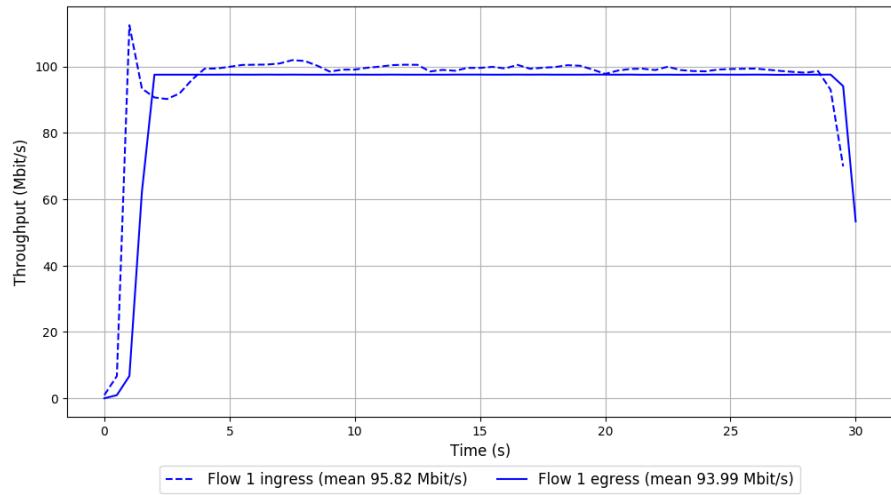


Run 2: Statistics of Indigo

```
Start at: 2019-09-18 16:18:43
End at: 2019-09-18 16:19:13
Local clock offset: 4.154 ms
Remote clock offset: 50.163 ms

# Below is generated by plot.py at 2019-09-18 17:58:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.99 Mbit/s
95th percentile per-packet one-way delay: 172.397 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 93.99 Mbit/s
95th percentile per-packet one-way delay: 172.397 ms
Loss rate: 2.43%
```

Run 2: Report of Indigo — Data Link

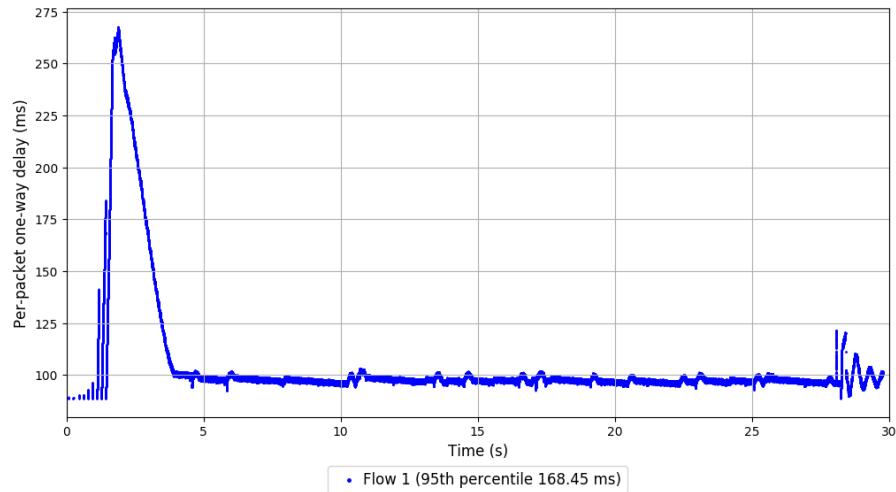
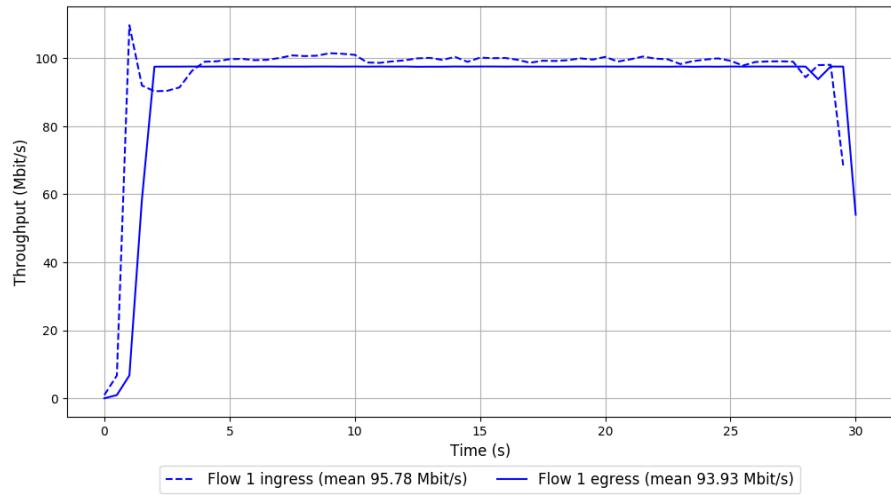


Run 3: Statistics of Indigo

```
Start at: 2019-09-18 16:47:10
End at: 2019-09-18 16:47:40
Local clock offset: 4.415 ms
Remote clock offset: 54.512 ms

# Below is generated by plot.py at 2019-09-18 17:58:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 168.451 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 168.451 ms
Loss rate: 2.46%
```

Run 3: Report of Indigo — Data Link

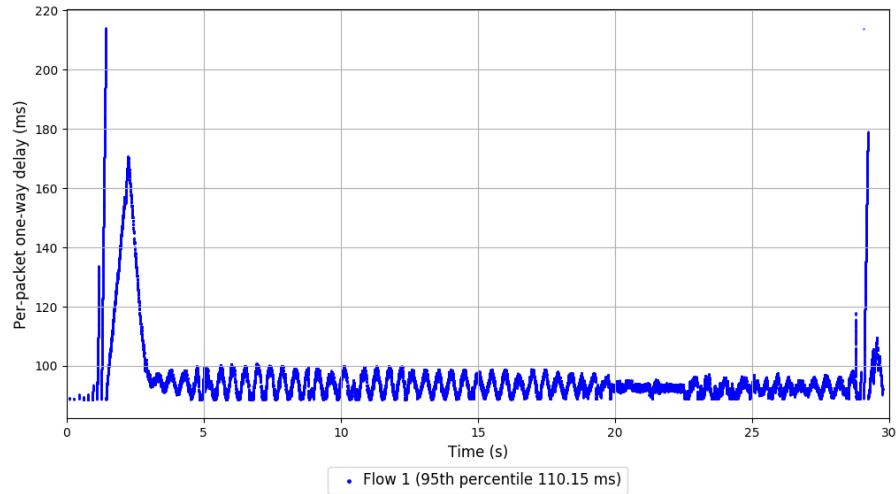
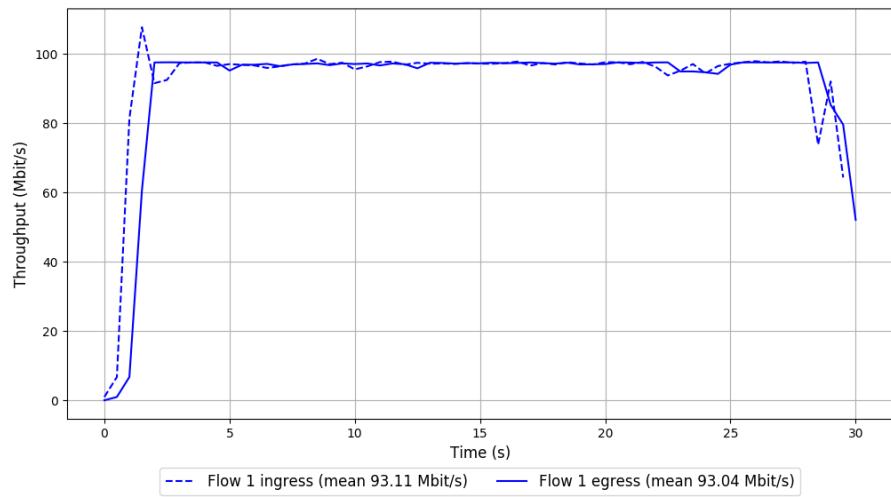


Run 4: Statistics of Indigo

```
Start at: 2019-09-18 17:15:36
End at: 2019-09-18 17:16:06
Local clock offset: 4.001 ms
Remote clock offset: 59.671 ms

# Below is generated by plot.py at 2019-09-18 17:58:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 110.146 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 110.146 ms
Loss rate: 0.62%
```

Run 4: Report of Indigo — Data Link

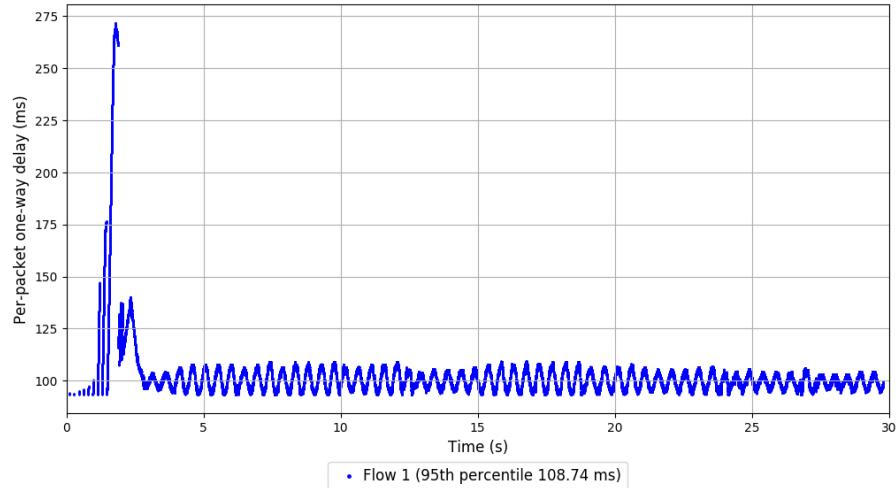
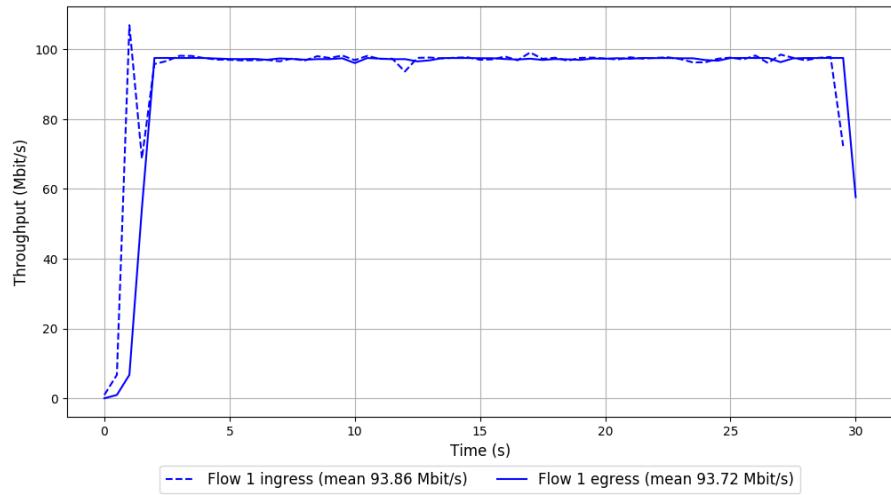


Run 5: Statistics of Indigo

```
Start at: 2019-09-18 17:44:04
End at: 2019-09-18 17:44:34
Local clock offset: 2.582 ms
Remote clock offset: 63.715 ms

# Below is generated by plot.py at 2019-09-18 17:58:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 108.738 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 108.738 ms
Loss rate: 0.69%
```

Run 5: Report of Indigo — Data Link

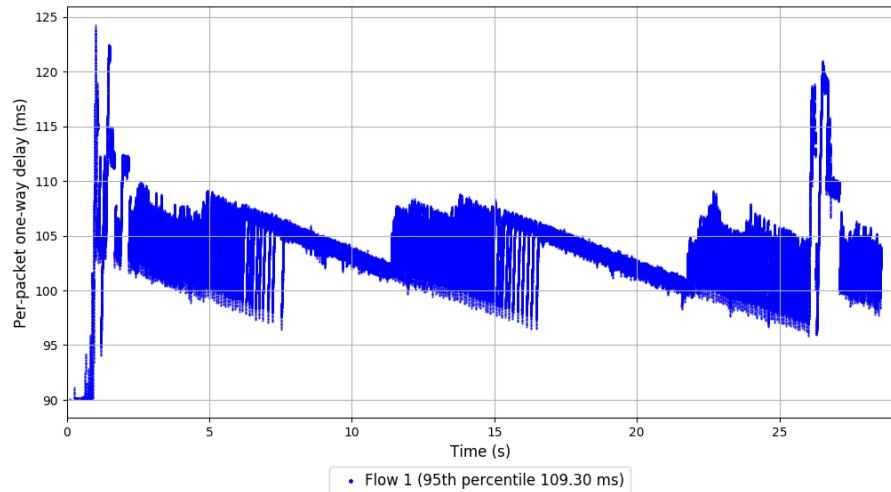
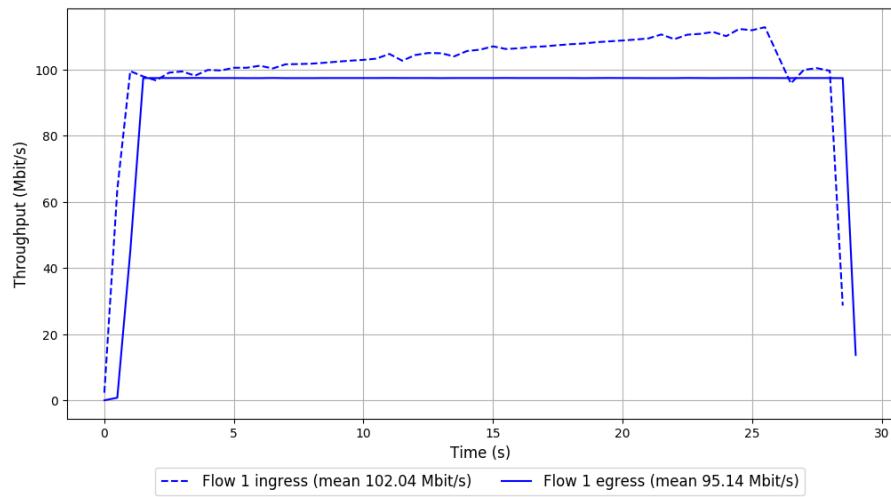


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-09-18 15:51:28
End at: 2019-09-18 15:51:58
Local clock offset: -5.531 ms
Remote clock offset: 40.621 ms

# Below is generated by plot.py at 2019-09-18 17:59:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.14 Mbit/s
95th percentile per-packet one-way delay: 109.295 ms
Loss rate: 7.28%
-- Flow 1:
Average throughput: 95.14 Mbit/s
95th percentile per-packet one-way delay: 109.295 ms
Loss rate: 7.28%
```

Run 1: Report of Indigo-MusesC3 — Data Link

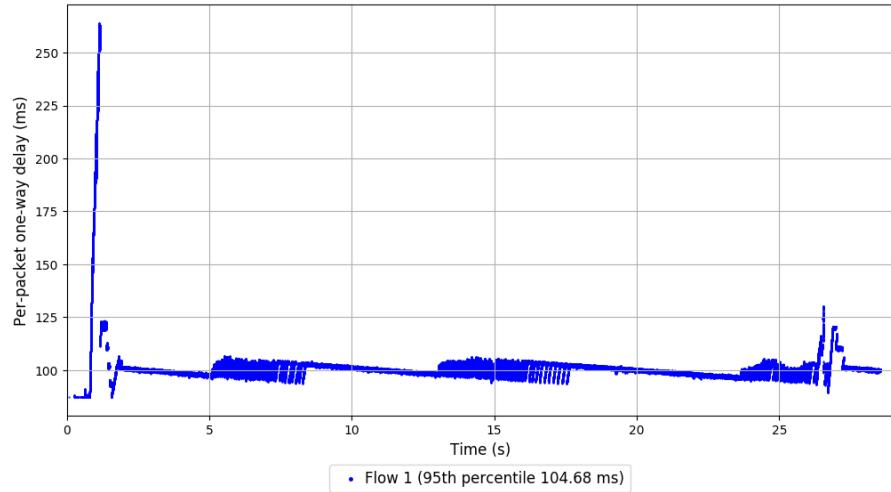
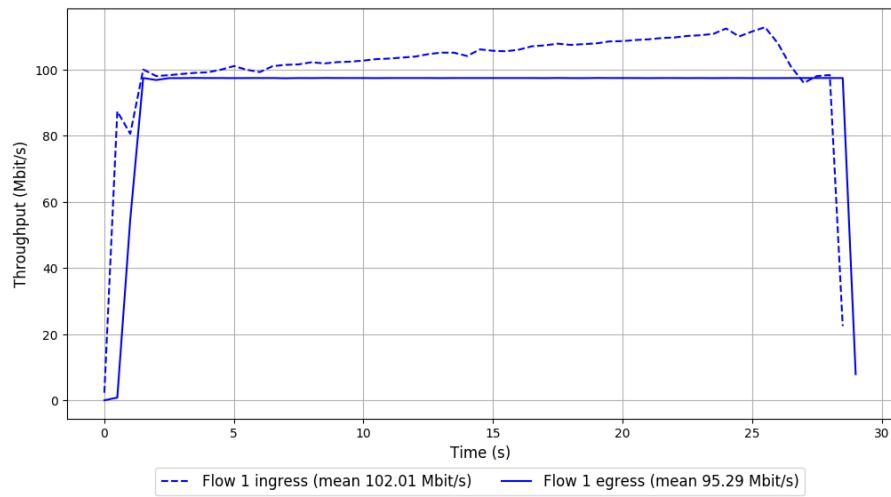


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-09-18 16:19:56
End at: 2019-09-18 16:20:26
Local clock offset: 4.422 ms
Remote clock offset: 51.244 ms

# Below is generated by plot.py at 2019-09-18 17:59:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 104.681 ms
Loss rate: 7.11%
-- Flow 1:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 104.681 ms
Loss rate: 7.11%
```

Run 2: Report of Indigo-MusesC3 — Data Link

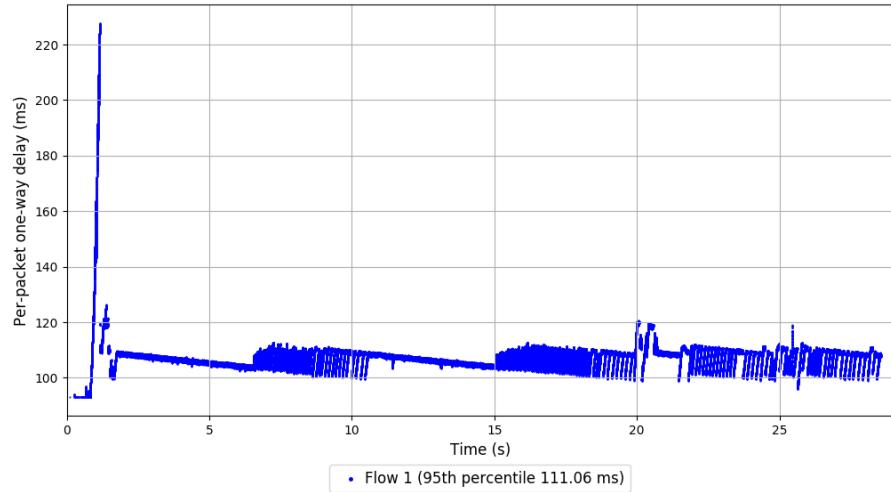
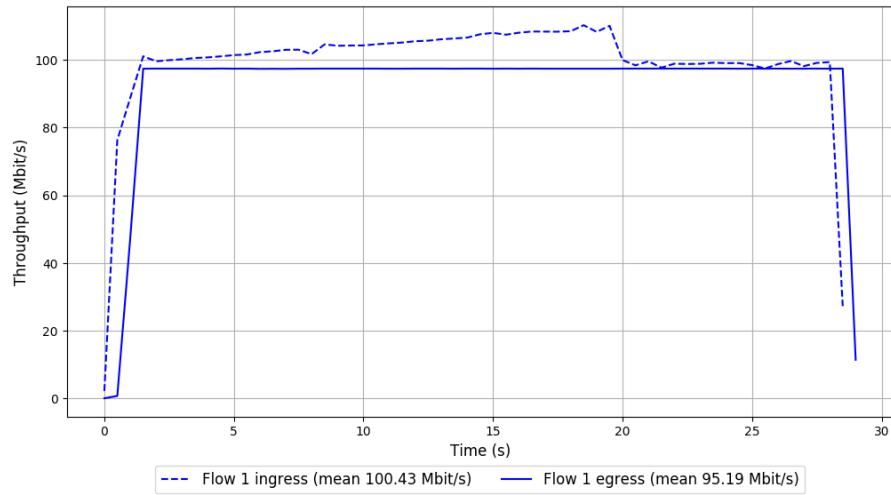


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-09-18 16:48:23
End at: 2019-09-18 16:48:53
Local clock offset: 3.628 ms
Remote clock offset: 53.006 ms

# Below is generated by plot.py at 2019-09-18 17:59:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: 111.064 ms
Loss rate: 5.76%
-- Flow 1:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: 111.064 ms
Loss rate: 5.76%
```

Run 3: Report of Indigo-MusesC3 — Data Link

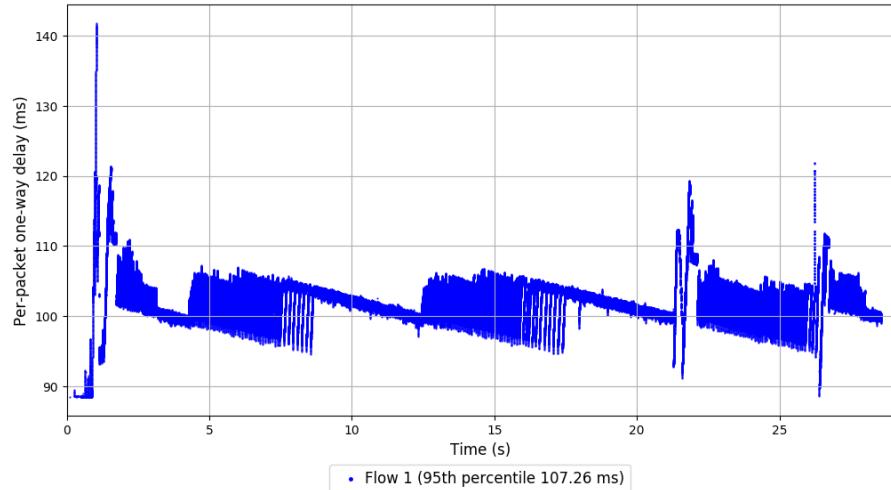
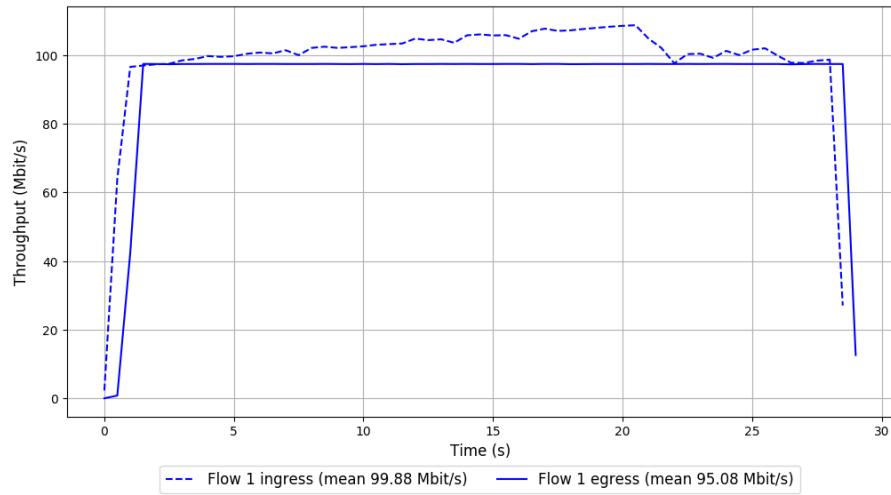


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-09-18 17:16:49
End at: 2019-09-18 17:17:19
Local clock offset: 3.16 ms
Remote clock offset: 58.597 ms

# Below is generated by plot.py at 2019-09-18 17:59:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 107.260 ms
Loss rate: 5.34%
-- Flow 1:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 107.260 ms
Loss rate: 5.34%
```

Run 4: Report of Indigo-MusesC3 — Data Link

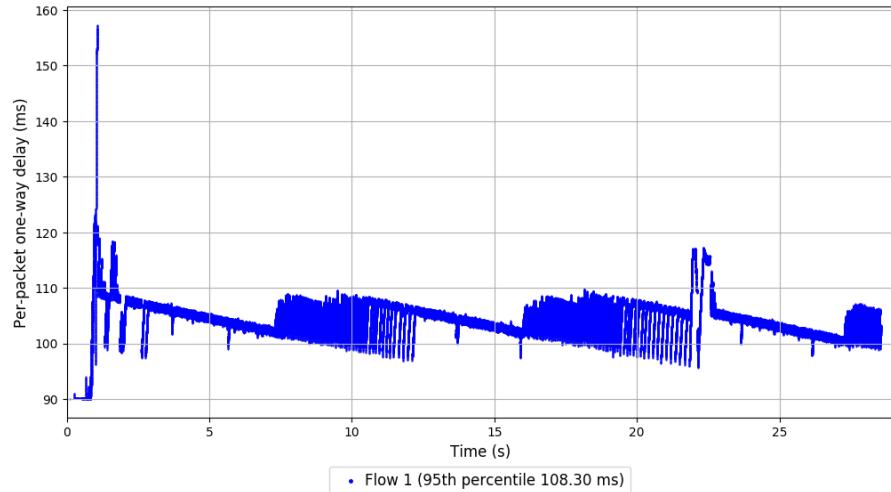
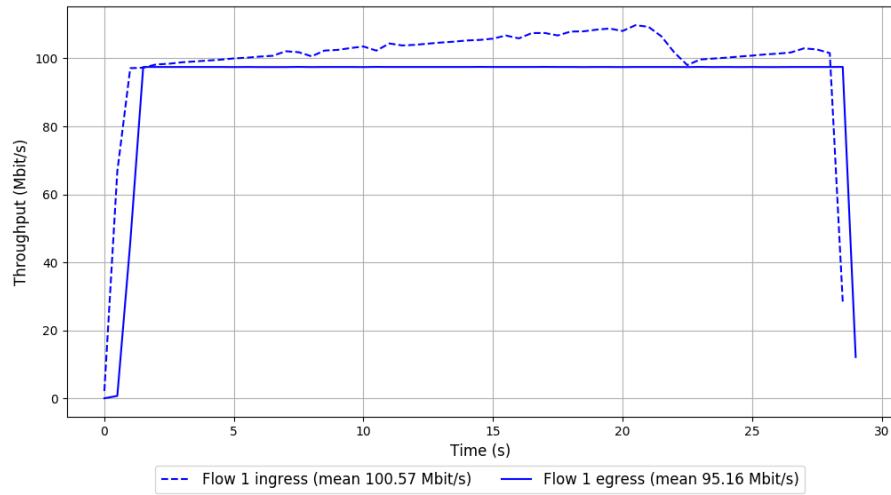


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-09-18 17:45:17
End at: 2019-09-18 17:45:47
Local clock offset: 1.82 ms
Remote clock offset: 66.661 ms

# Below is generated by plot.py at 2019-09-18 17:59:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 108.298 ms
Loss rate: 5.93%
-- Flow 1:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 108.298 ms
Loss rate: 5.93%
```

Run 5: Report of Indigo-MusesC3 — Data Link

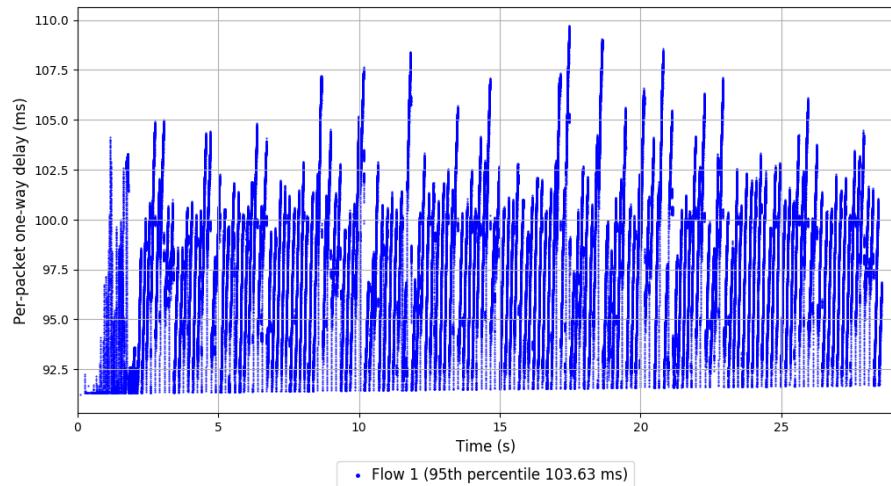
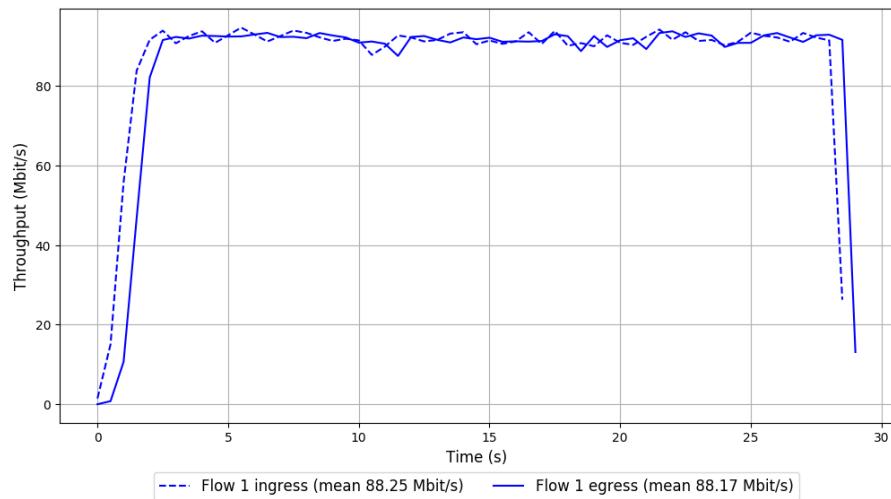


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-09-18 15:34:54
End at: 2019-09-18 15:35:24
Local clock offset: 0.219 ms
Remote clock offset: 35.305 ms

# Below is generated by plot.py at 2019-09-18 17:59:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.17 Mbit/s
95th percentile per-packet one-way delay: 103.627 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 88.17 Mbit/s
95th percentile per-packet one-way delay: 103.627 ms
Loss rate: 0.65%
```

Run 1: Report of Indigo-MusesC5 — Data Link

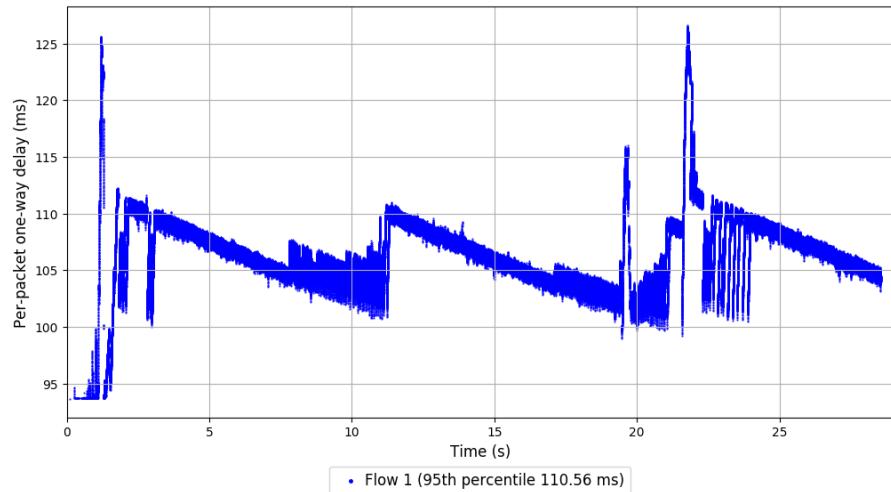
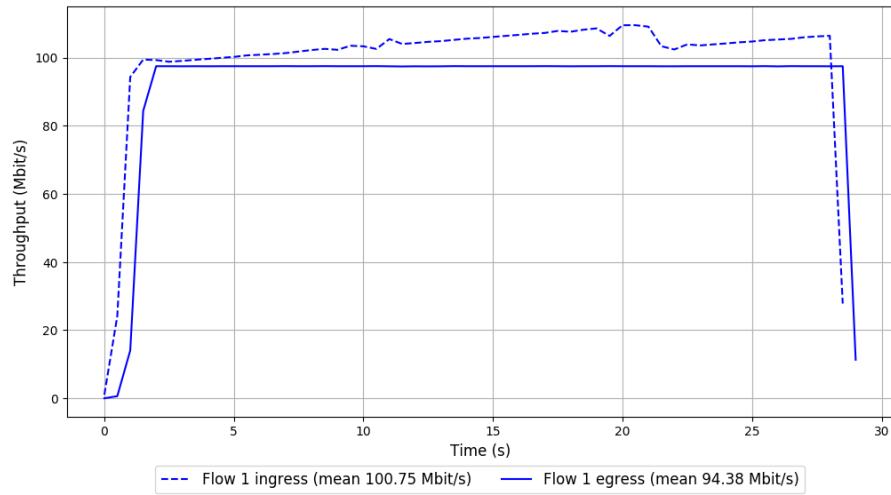


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-09-18 16:03:20
End at: 2019-09-18 16:03:50
Local clock offset: -3.356 ms
Remote clock offset: 44.233 ms

# Below is generated by plot.py at 2019-09-18 17:59:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 110.561 ms
Loss rate: 6.86%
-- Flow 1:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 110.561 ms
Loss rate: 6.86%
```

Run 2: Report of Indigo-MusesC5 — Data Link

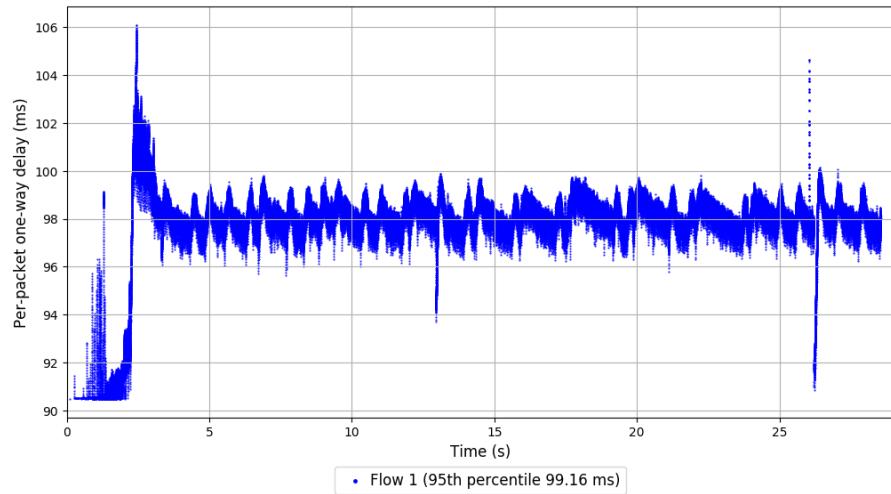
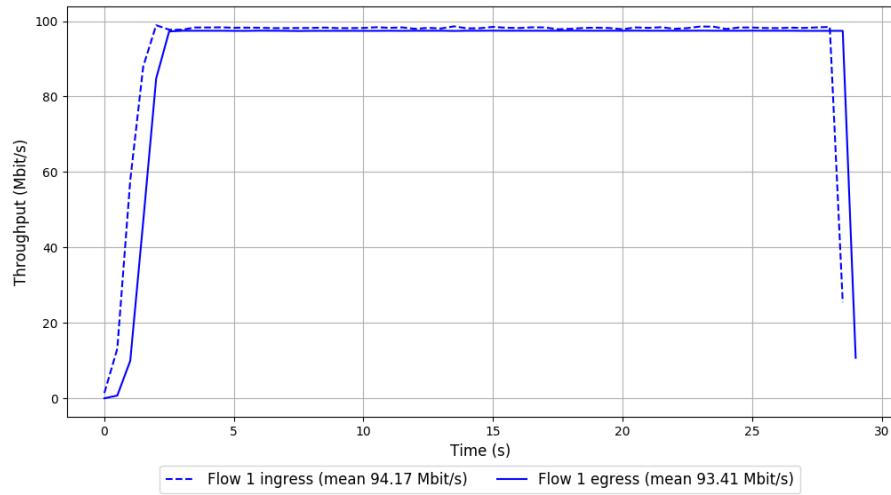


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-09-18 16:31:48
End at: 2019-09-18 16:32:18
Local clock offset: 5.476 ms
Remote clock offset: 53.943 ms

# Below is generated by plot.py at 2019-09-18 17:59:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 99.164 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 99.164 ms
Loss rate: 1.38%
```

Run 3: Report of Indigo-MusesC5 — Data Link

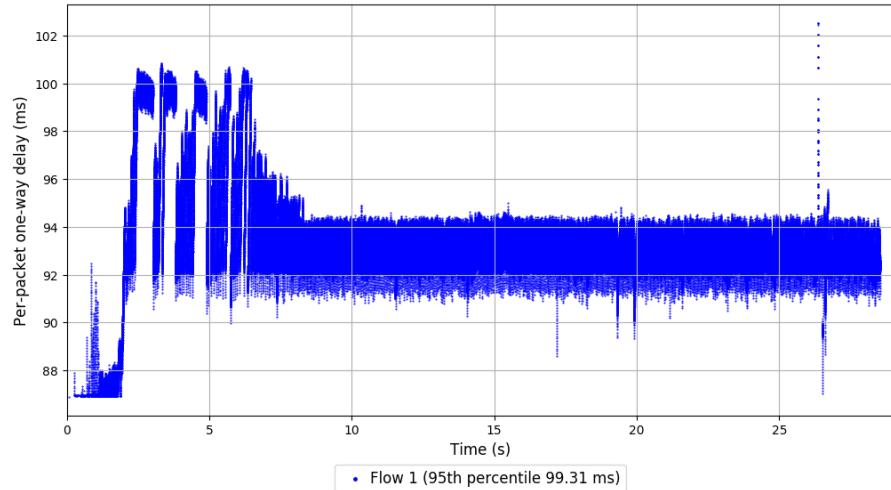
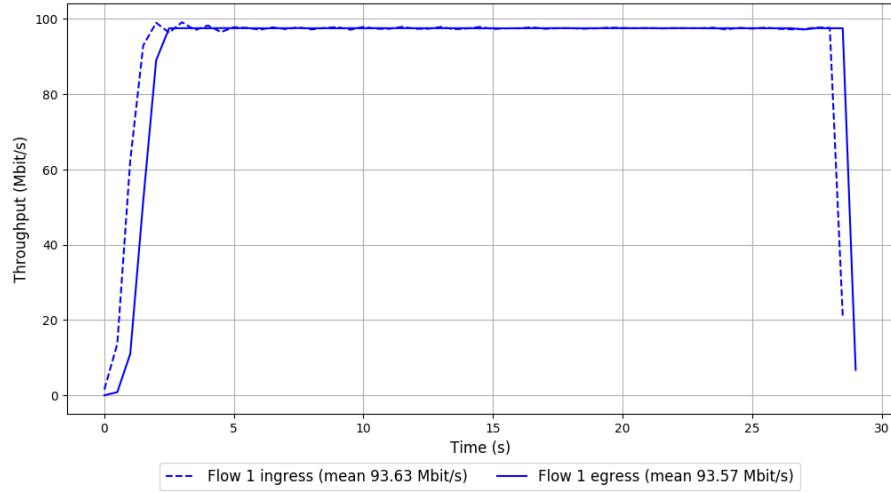


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-09-18 17:00:15
End at: 2019-09-18 17:00:45
Local clock offset: 4.376 ms
Remote clock offset: 58.468 ms

# Below is generated by plot.py at 2019-09-18 18:00:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.57 Mbit/s
95th percentile per-packet one-way delay: 99.306 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 93.57 Mbit/s
95th percentile per-packet one-way delay: 99.306 ms
Loss rate: 0.62%
```

Run 4: Report of Indigo-MusesC5 — Data Link

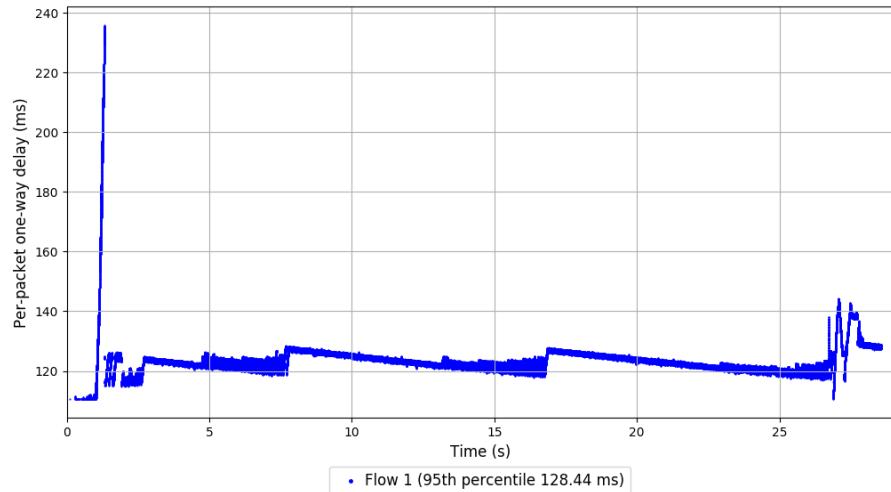
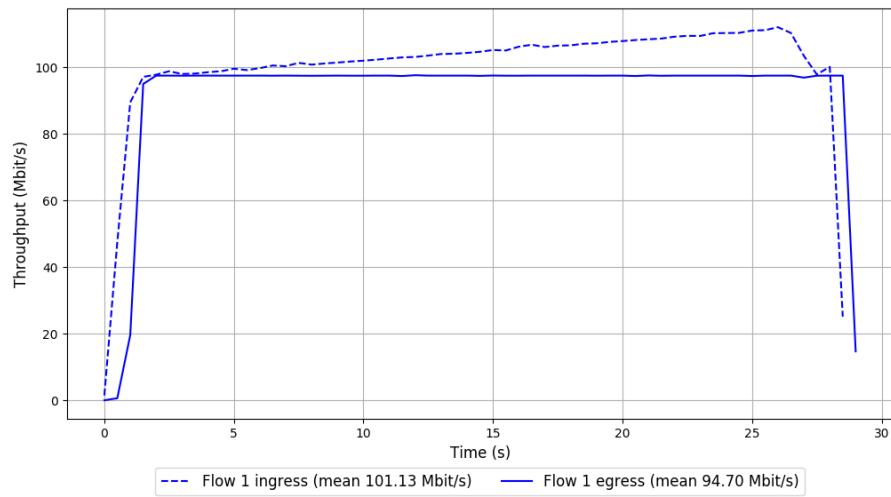


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-09-18 17:28:40
End at: 2019-09-18 17:29:10
Local clock offset: 22.123 ms
Remote clock offset: 58.022 ms

# Below is generated by plot.py at 2019-09-18 18:00:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.70 Mbit/s
95th percentile per-packet one-way delay: 128.436 ms
Loss rate: 6.88%
-- Flow 1:
Average throughput: 94.70 Mbit/s
95th percentile per-packet one-way delay: 128.436 ms
Loss rate: 6.88%
```

Run 5: Report of Indigo-MusesC5 — Data Link

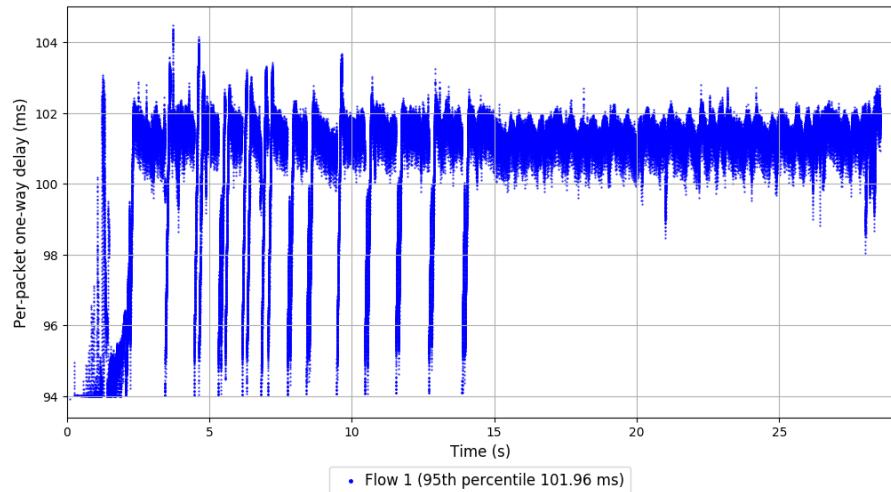
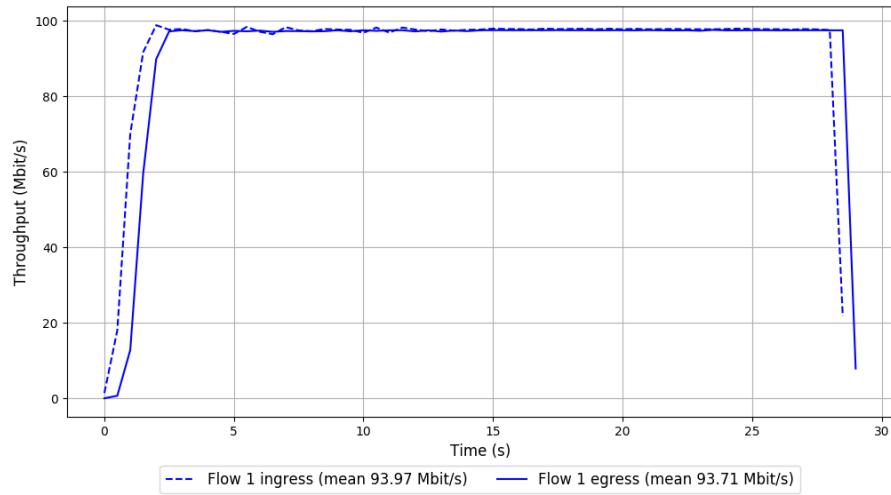


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-09-18 15:52:40
End at: 2019-09-18 15:53:10
Local clock offset: -5.064 ms
Remote clock offset: 41.633 ms

# Below is generated by plot.py at 2019-09-18 18:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 101.959 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 101.959 ms
Loss rate: 0.85%
```

Run 1: Report of Indigo-MusesD — Data Link

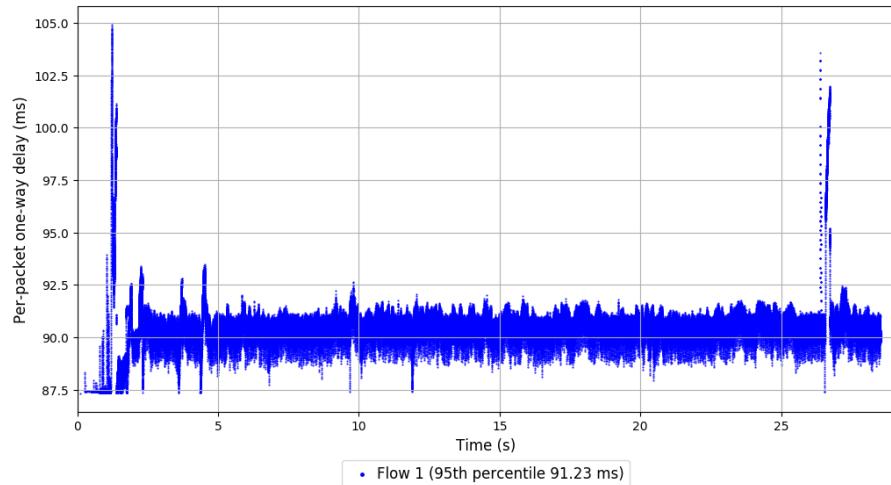
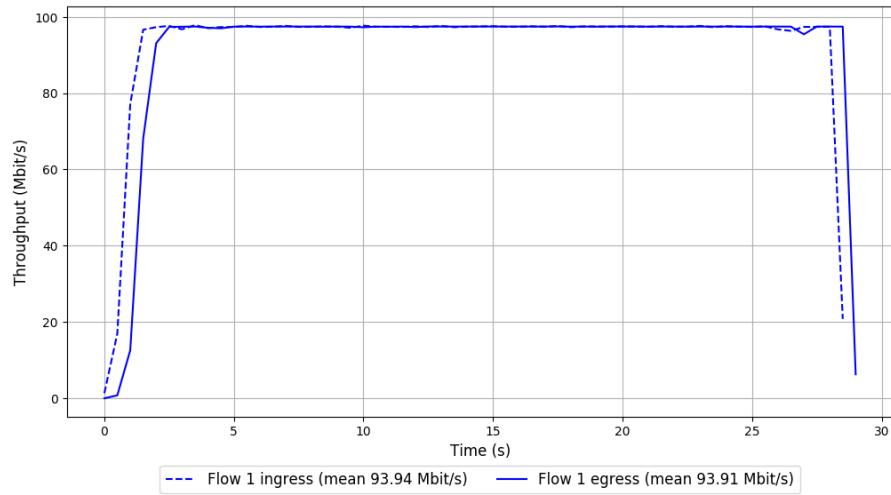


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-09-18 16:21:08
End at: 2019-09-18 16:21:38
Local clock offset: 4.639 ms
Remote clock offset: 51.456 ms

# Below is generated by plot.py at 2019-09-18 18:00:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 91.233 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 91.233 ms
Loss rate: 0.60%
```

Run 2: Report of Indigo-MusesD — Data Link

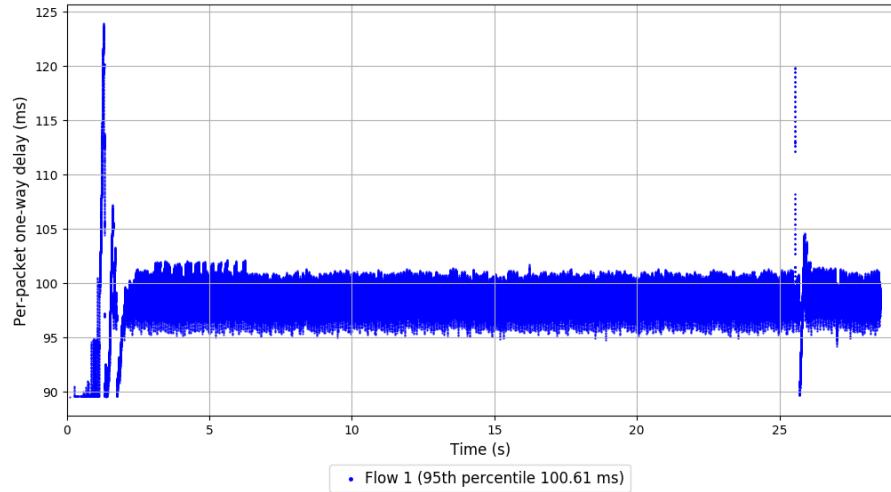
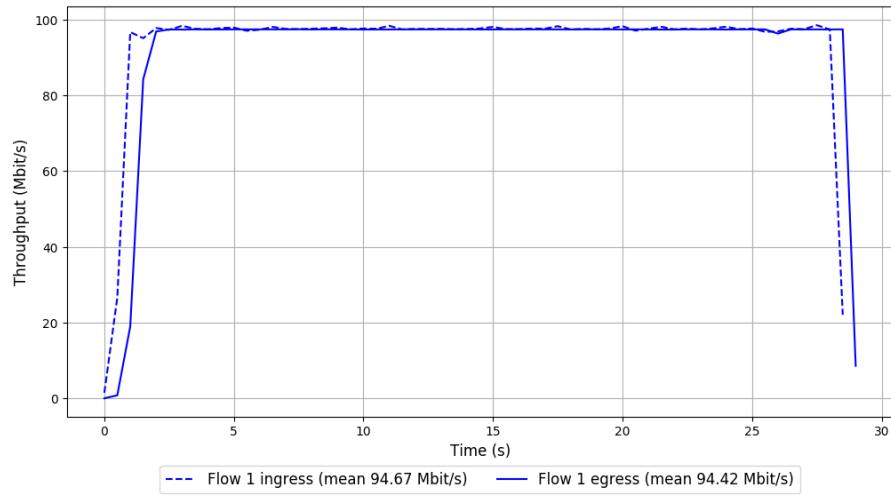


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-09-18 16:49:35
End at: 2019-09-18 16:50:05
Local clock offset: 4.377 ms
Remote clock offset: 54.049 ms

# Below is generated by plot.py at 2019-09-18 18:00:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 100.607 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 100.607 ms
Loss rate: 0.83%
```

Run 3: Report of Indigo-MusesD — Data Link

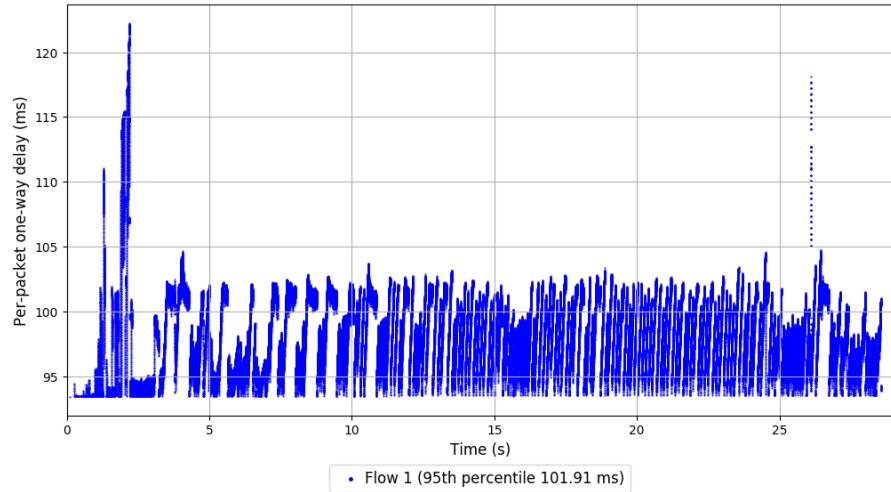
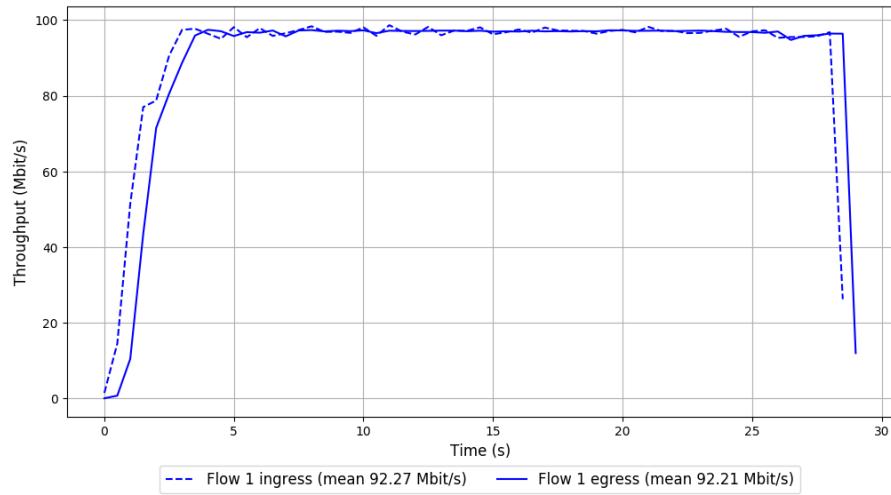


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-09-18 17:18:00
End at: 2019-09-18 17:18:31
Local clock offset: 3.244 ms
Remote clock offset: 57.947 ms

# Below is generated by plot.py at 2019-09-18 18:00:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 101.913 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 101.913 ms
Loss rate: 0.65%
```

Run 4: Report of Indigo-MusesD — Data Link

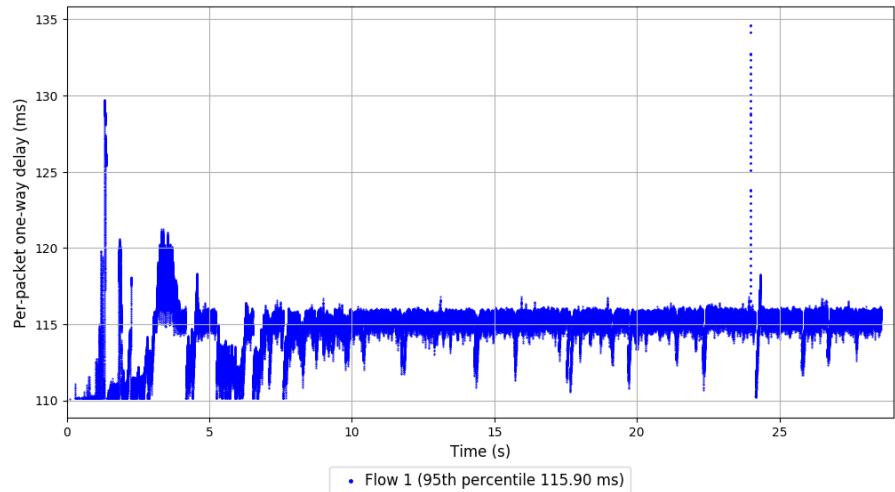
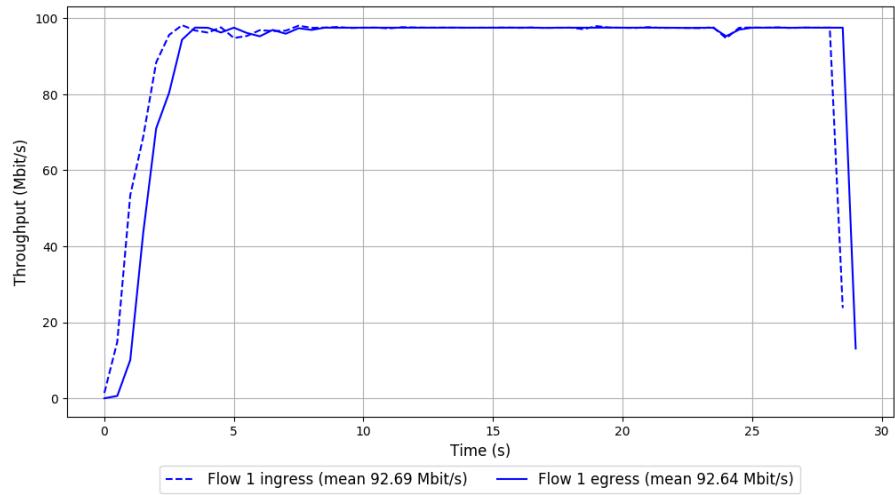


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-09-18 17:46:29
End at: 2019-09-18 17:46:59
Local clock offset: 21.364 ms
Remote clock offset: 66.433 ms

# Below is generated by plot.py at 2019-09-18 18:00:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 115.896 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 115.896 ms
Loss rate: 0.63%
```

Run 5: Report of Indigo-MusesD — Data Link

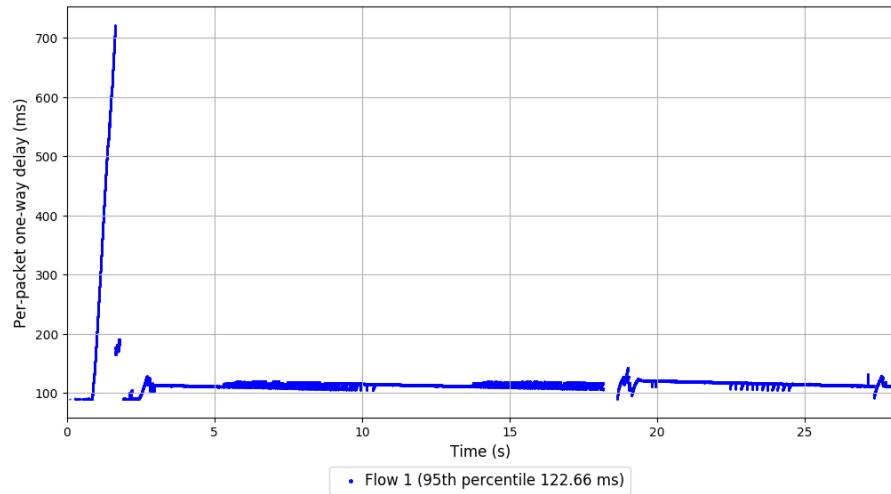
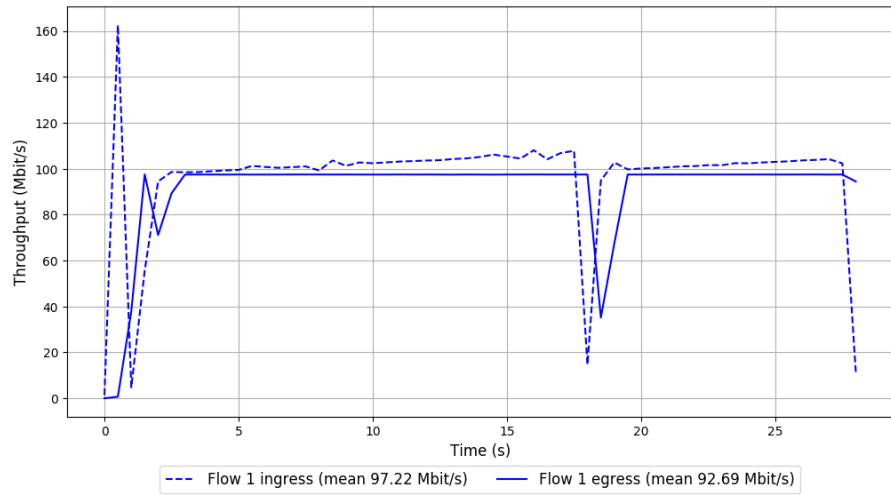


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-09-18 15:31:19
End at: 2019-09-18 15:31:49
Local clock offset: 3.823 ms
Remote clock offset: 37.041 ms

# Below is generated by plot.py at 2019-09-18 18:00:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.69 Mbit/s
95th percentile per-packet one-way delay: 122.660 ms
Loss rate: 5.21%
-- Flow 1:
Average throughput: 92.69 Mbit/s
95th percentile per-packet one-way delay: 122.660 ms
Loss rate: 5.21%
```

Run 1: Report of Indigo-MusesT — Data Link

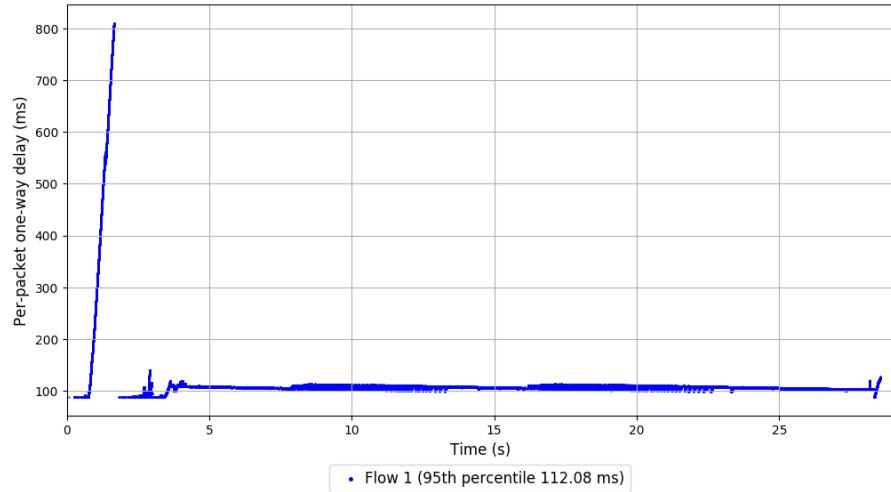
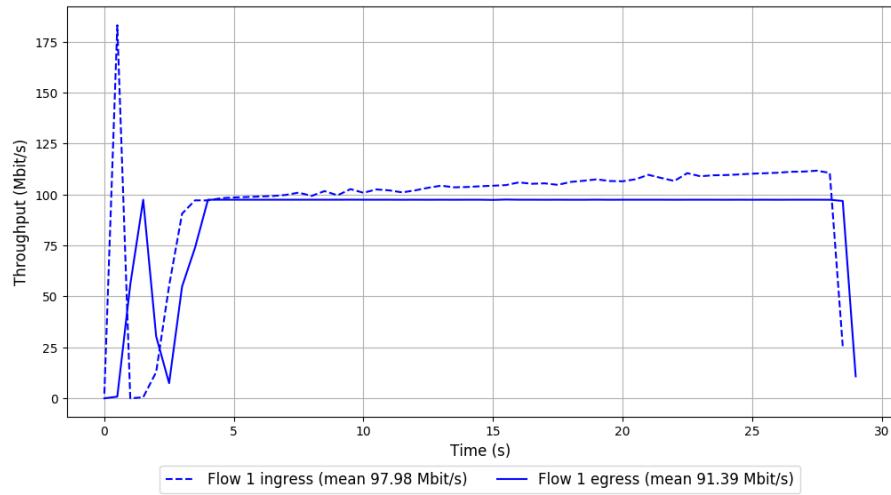


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-09-18 15:59:46
End at: 2019-09-18 16:00:16
Local clock offset: -6.941 ms
Remote clock offset: 45.161 ms

# Below is generated by plot.py at 2019-09-18 18:01:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 112.077 ms
Loss rate: 7.25%
-- Flow 1:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 112.077 ms
Loss rate: 7.25%
```

Run 2: Report of Indigo-MusesT — Data Link

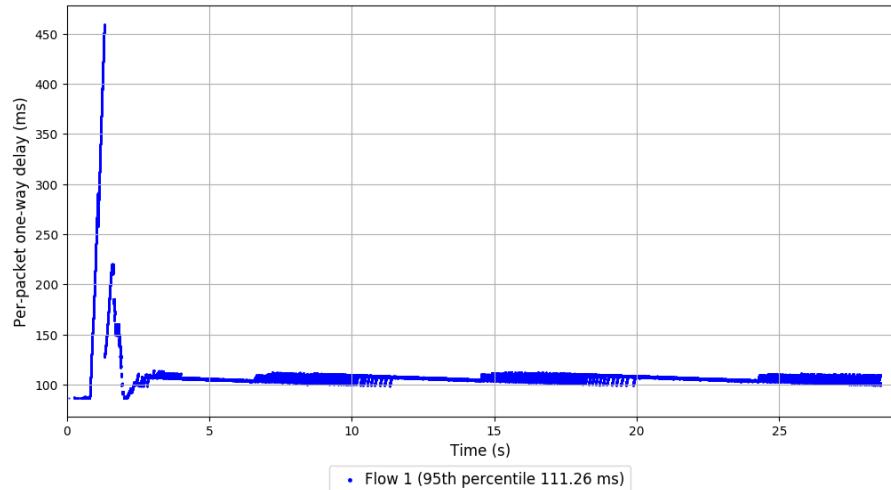
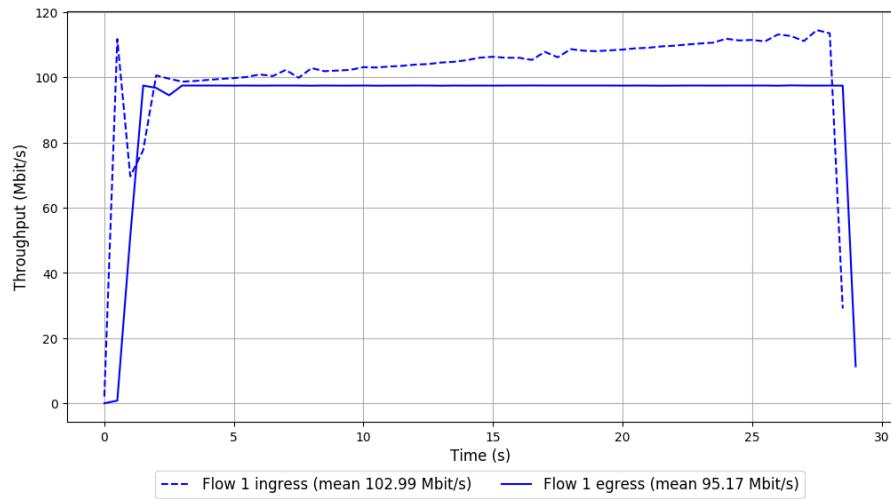


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-09-18 16:28:14
End at: 2019-09-18 16:28:44
Local clock offset: 5.512 ms
Remote clock offset: 52.814 ms

# Below is generated by plot.py at 2019-09-18 18:01:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 111.261 ms
Loss rate: 8.11%
-- Flow 1:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 111.261 ms
Loss rate: 8.11%
```

Run 3: Report of Indigo-MusesT — Data Link

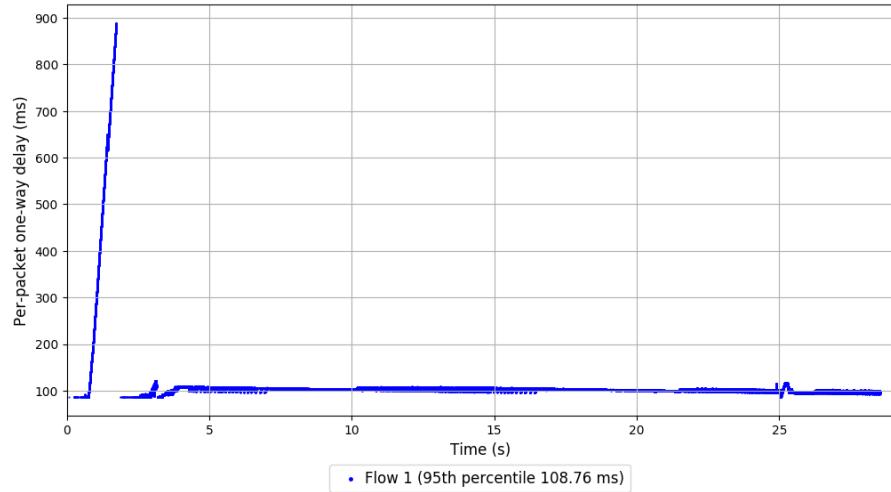
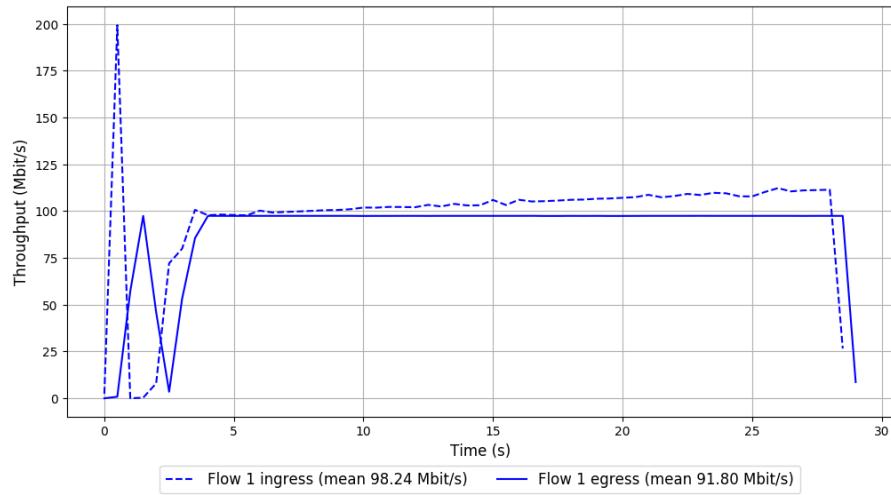


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-09-18 16:56:41
End at: 2019-09-18 16:57:11
Local clock offset: 3.627 ms
Remote clock offset: 57.825 ms

# Below is generated by plot.py at 2019-09-18 18:01:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.80 Mbit/s
95th percentile per-packet one-way delay: 108.763 ms
Loss rate: 7.09%
-- Flow 1:
Average throughput: 91.80 Mbit/s
95th percentile per-packet one-way delay: 108.763 ms
Loss rate: 7.09%
```

Run 4: Report of Indigo-MusesT — Data Link

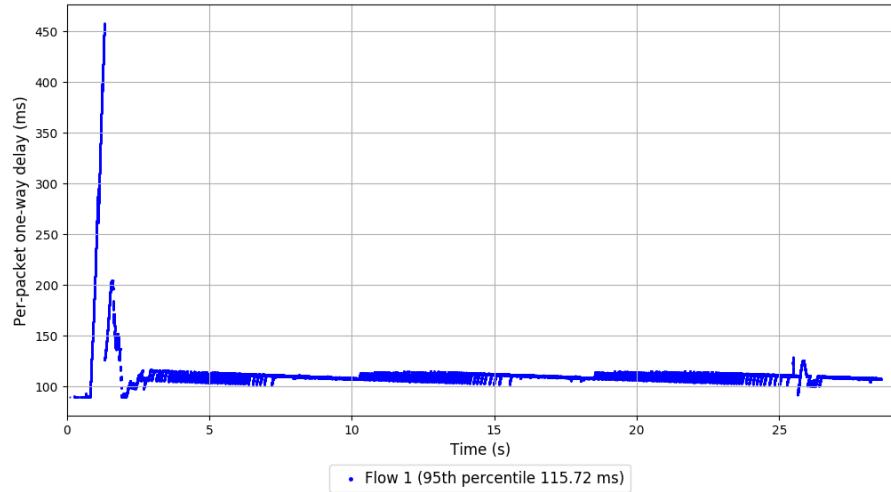
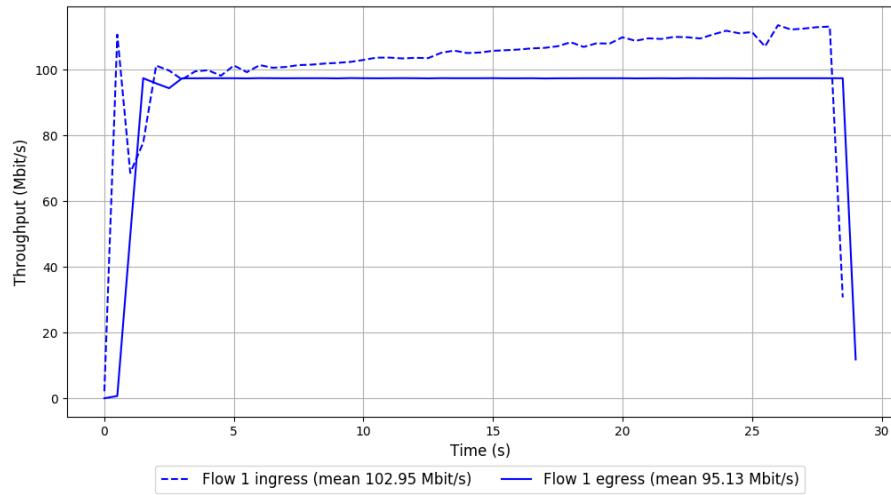


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-09-18 17:25:06
End at: 2019-09-18 17:25:36
Local clock offset: 4.025 ms
Remote clock offset: 63.052 ms

# Below is generated by plot.py at 2019-09-18 18:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.13 Mbit/s
95th percentile per-packet one-way delay: 115.725 ms
Loss rate: 8.12%
-- Flow 1:
Average throughput: 95.13 Mbit/s
95th percentile per-packet one-way delay: 115.725 ms
Loss rate: 8.12%
```

Run 5: Report of Indigo-MusesT — Data Link

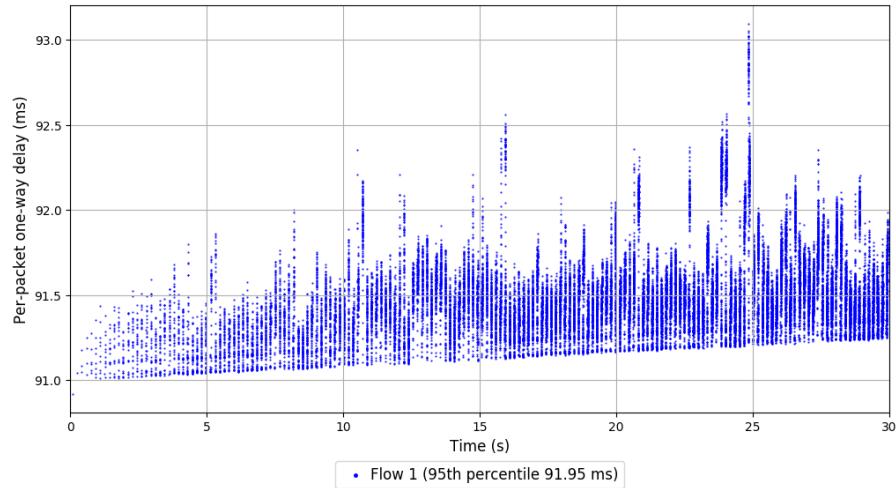
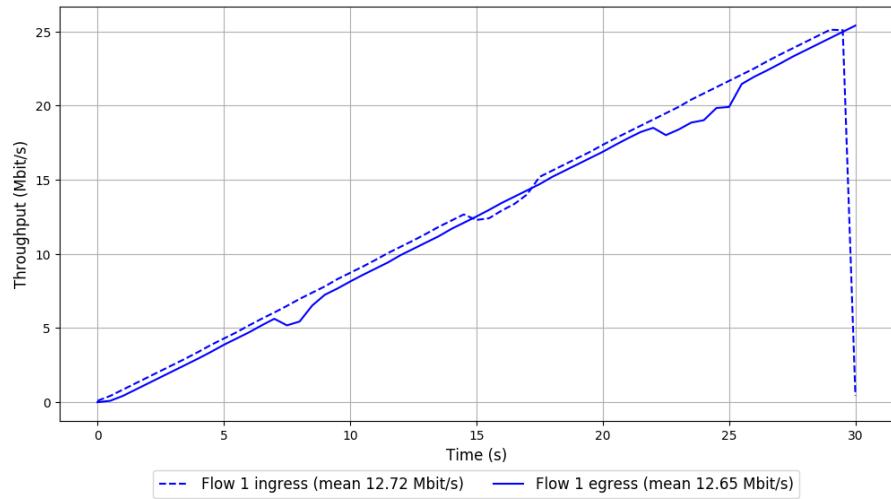


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-09-18 15:45:35
End at: 2019-09-18 15:46:05
Local clock offset: -4.202 ms
Remote clock offset: 41.708 ms

# Below is generated by plot.py at 2019-09-18 18:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 91.948 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 91.948 ms
Loss rate: 1.12%
```

Run 1: Report of LEDBAT — Data Link

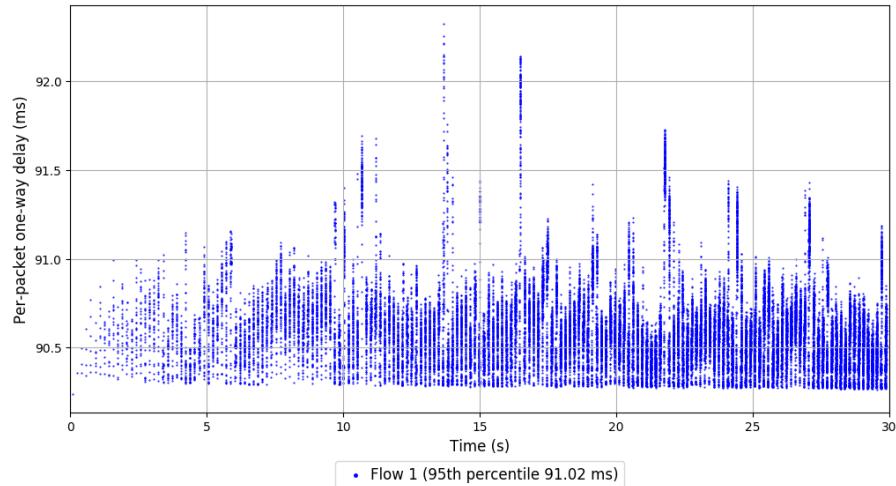
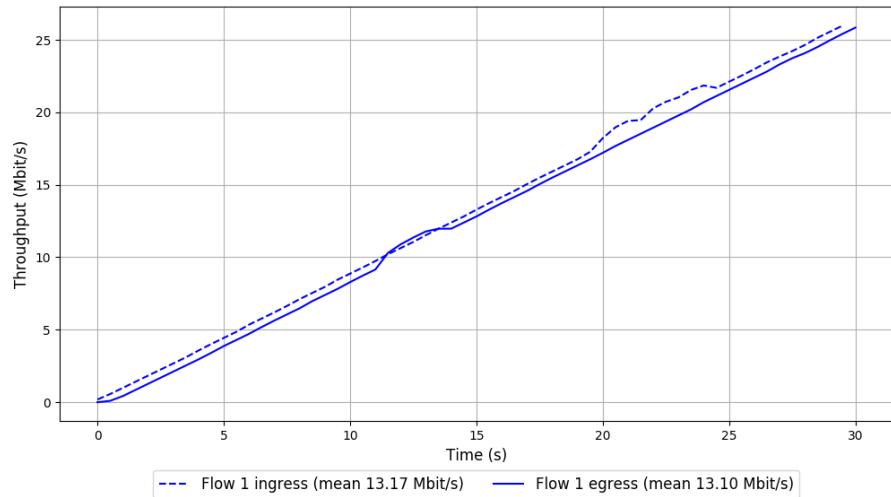


Run 2: Statistics of LEDBAT

```
Start at: 2019-09-18 16:14:03
End at: 2019-09-18 16:14:33
Local clock offset: 2.934 ms
Remote clock offset: 50.409 ms

# Below is generated by plot.py at 2019-09-18 18:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 91.015 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 91.015 ms
Loss rate: 1.10%
```

Run 2: Report of LEDBAT — Data Link

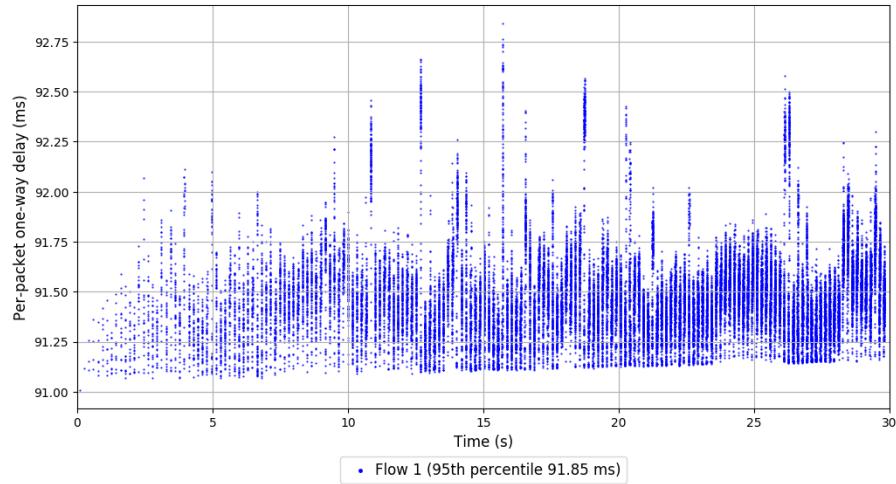
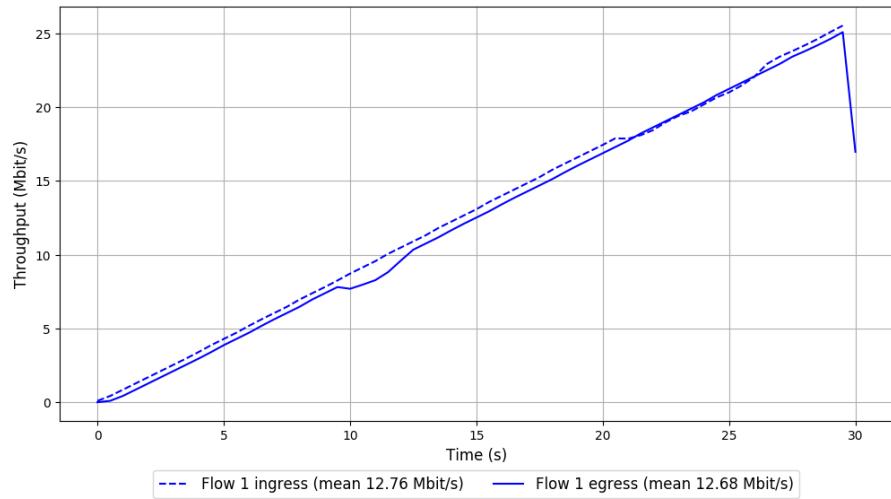


Run 3: Statistics of LEDBAT

```
Start at: 2019-09-18 16:42:30
End at: 2019-09-18 16:43:00
Local clock offset: 3.76 ms
Remote clock offset: 54.487 ms

# Below is generated by plot.py at 2019-09-18 18:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 91.847 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 91.847 ms
Loss rate: 1.12%
```

Run 3: Report of LEDBAT — Data Link

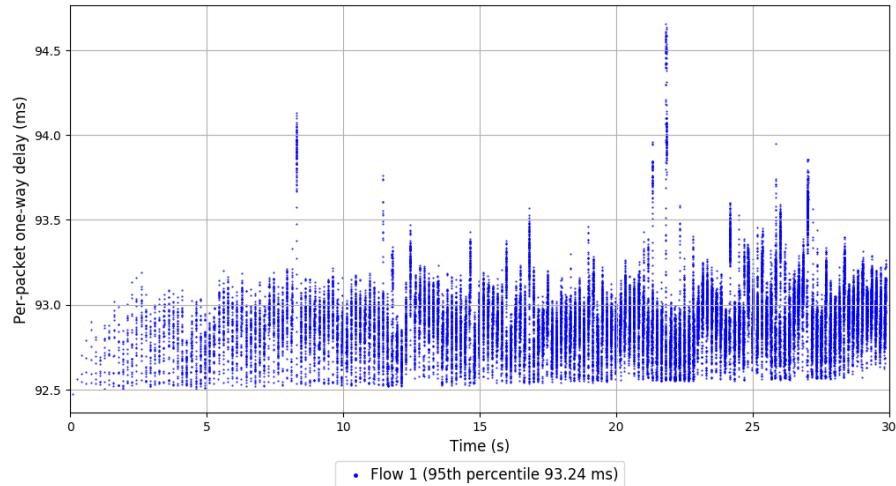
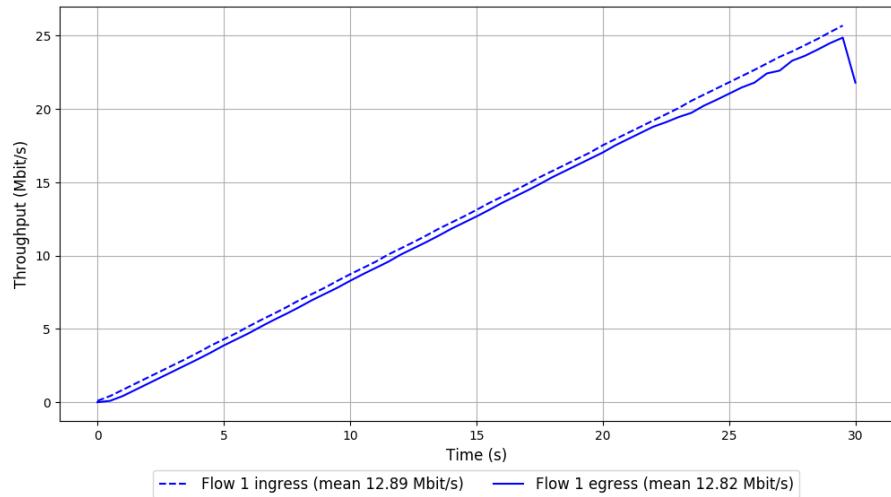


Run 4: Statistics of LEDBAT

```
Start at: 2019-09-18 17:10:55
End at: 2019-09-18 17:11:25
Local clock offset: 4.006 ms
Remote clock offset: 58.536 ms

# Below is generated by plot.py at 2019-09-18 18:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 93.241 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 93.241 ms
Loss rate: 1.12%
```

Run 4: Report of LEDBAT — Data Link

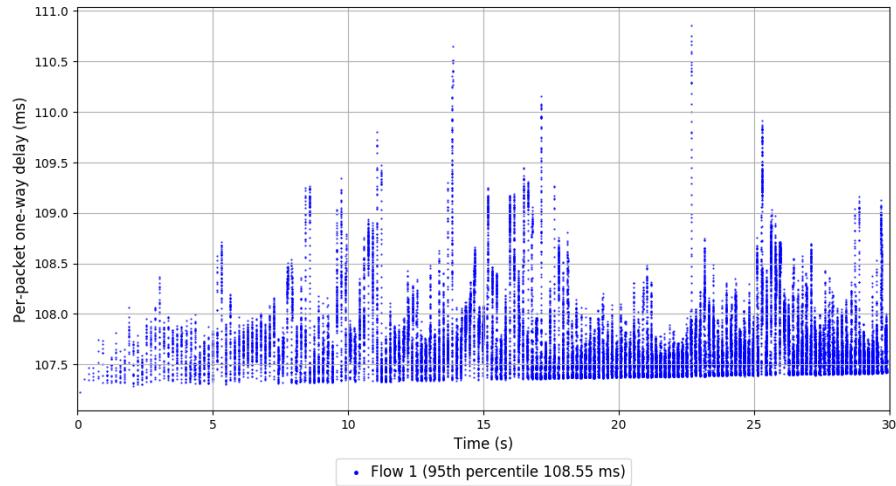
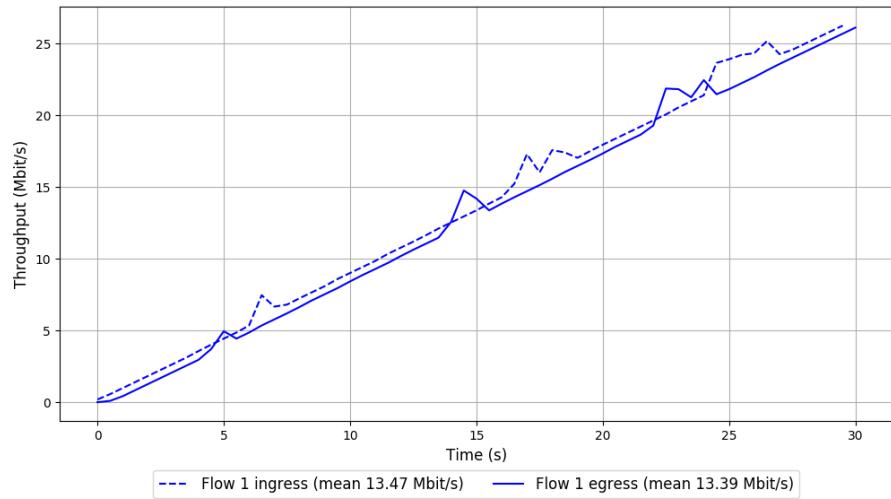


Run 5: Statistics of LEDBAT

```
Start at: 2019-09-18 17:39:24
End at: 2019-09-18 17:39:54
Local clock offset: 20.914 ms
Remote clock offset: 63.499 ms

# Below is generated by plot.py at 2019-09-18 18:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 108.552 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 108.552 ms
Loss rate: 1.09%
```

Run 5: Report of LEDBAT — Data Link

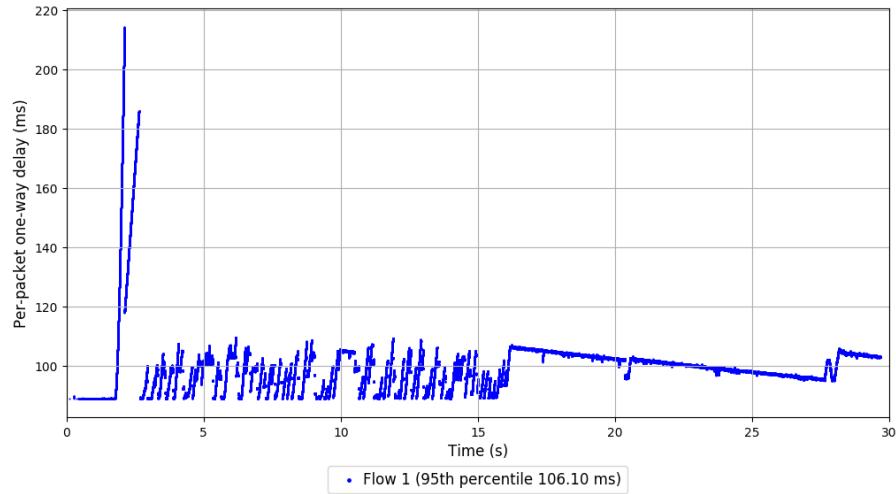
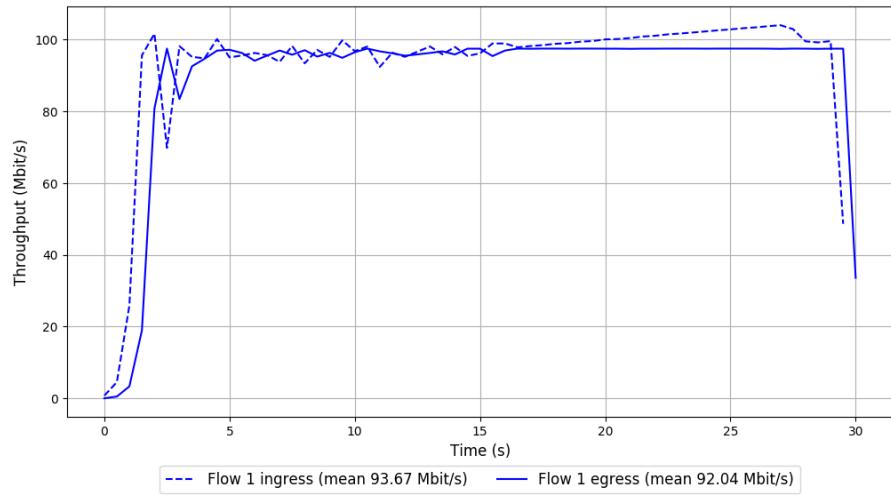


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-09-18 15:53:52
End at: 2019-09-18 15:54:22
Local clock offset: -5.215 ms
Remote clock offset: 42.855 ms

# Below is generated by plot.py at 2019-09-18 18:02:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.04 Mbit/s
95th percentile per-packet one-way delay: 106.103 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 92.04 Mbit/s
95th percentile per-packet one-way delay: 106.103 ms
Loss rate: 2.27%
```

Run 1: Report of Muses_DecisionTree — Data Link

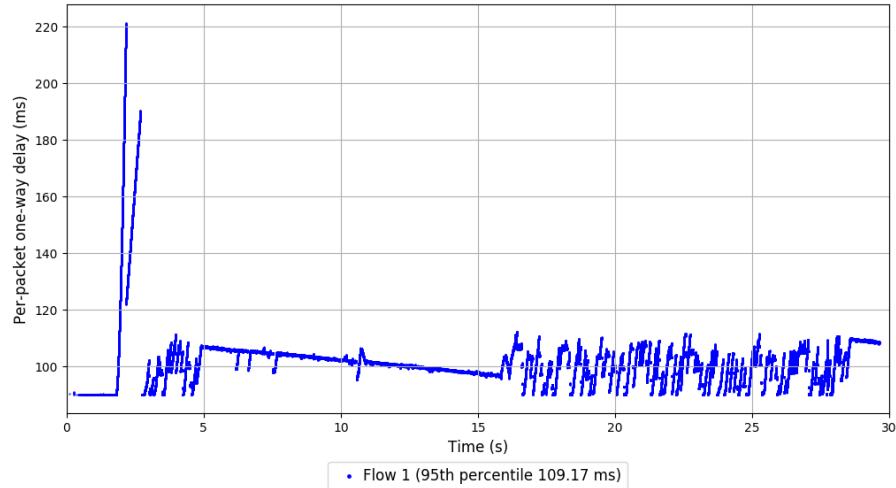
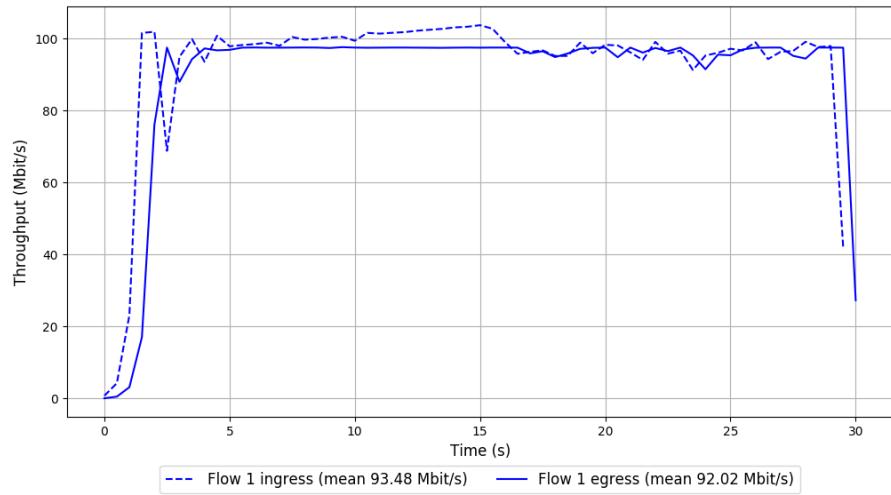


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-09-18 16:22:19
End at: 2019-09-18 16:22:49
Local clock offset: 4.825 ms
Remote clock offset: 52.19 ms

# Below is generated by plot.py at 2019-09-18 18:02:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.02 Mbit/s
95th percentile per-packet one-way delay: 109.175 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 92.02 Mbit/s
95th percentile per-packet one-way delay: 109.175 ms
Loss rate: 2.11%
```

Run 2: Report of Muses_DecisionTree — Data Link

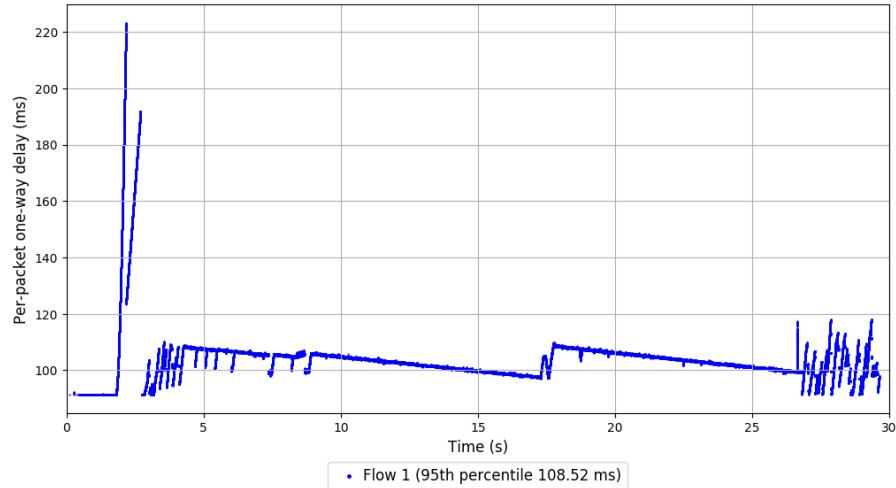
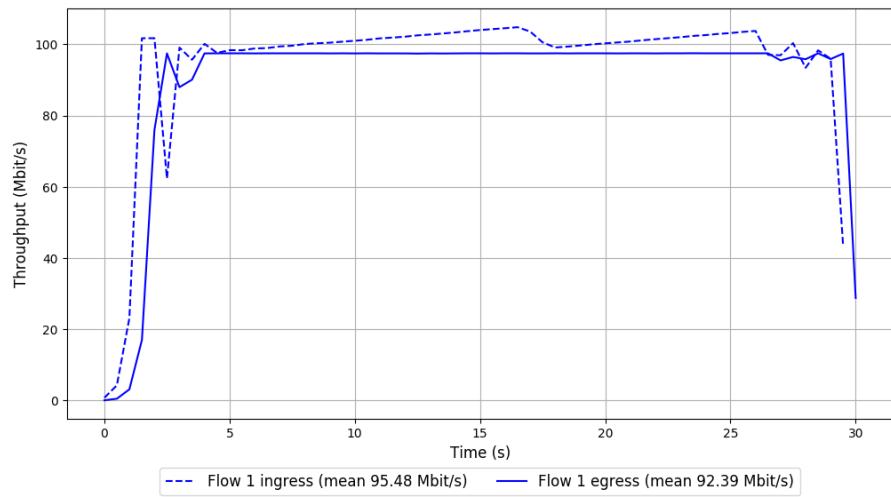


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-09-18 16:50:47
End at: 2019-09-18 16:51:17
Local clock offset: 3.599 ms
Remote clock offset: 55.14 ms

# Below is generated by plot.py at 2019-09-18 18:02:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.39 Mbit/s
95th percentile per-packet one-way delay: 108.522 ms
Loss rate: 3.76%
-- Flow 1:
Average throughput: 92.39 Mbit/s
95th percentile per-packet one-way delay: 108.522 ms
Loss rate: 3.76%
```

Run 3: Report of Muses_DecisionTree — Data Link

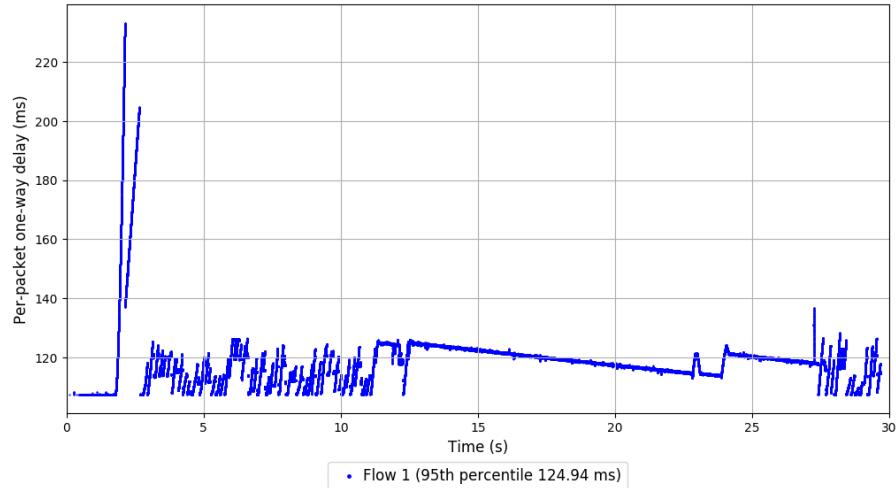
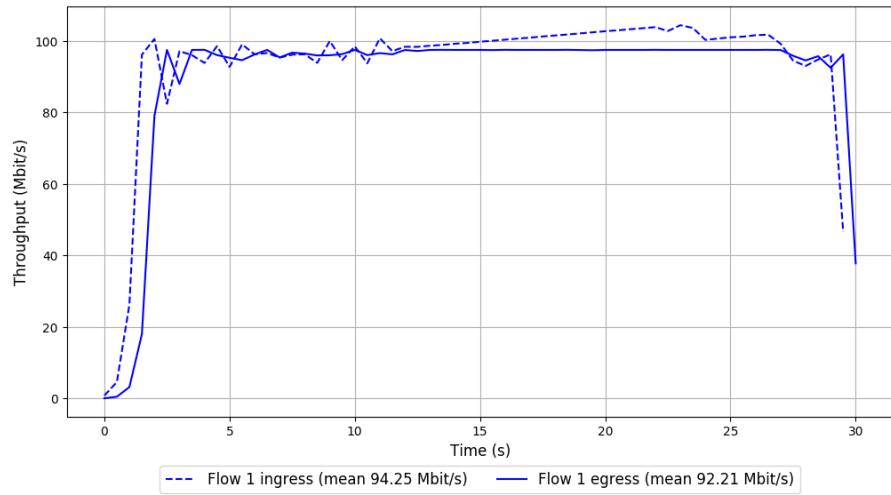


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-09-18 17:19:12
End at: 2019-09-18 17:19:42
Local clock offset: 24.411 ms
Remote clock offset: 61.486 ms

# Below is generated by plot.py at 2019-09-18 18:02:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 124.942 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 124.942 ms
Loss rate: 2.69%
```

Run 4: Report of Muses_DecisionTree — Data Link

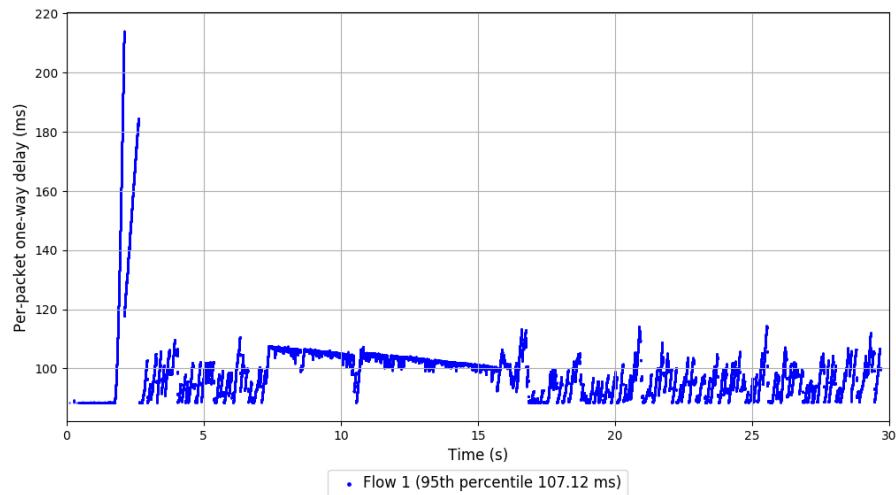
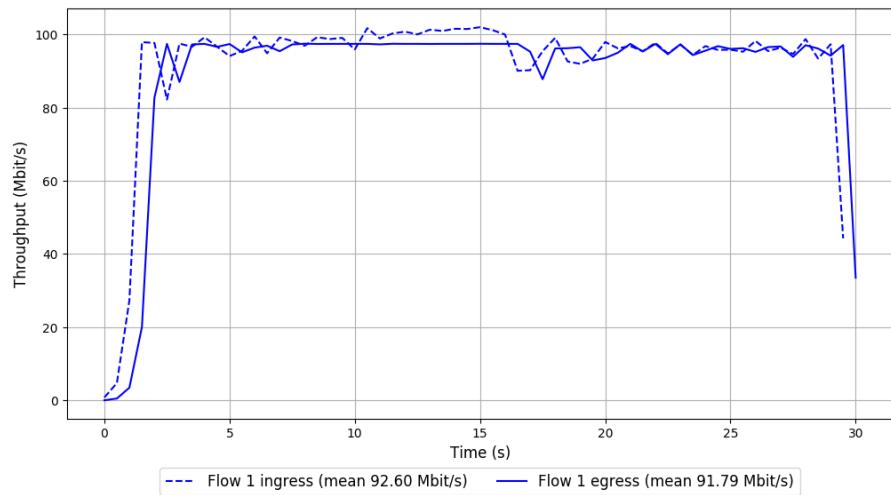


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-09-18 17:47:40
End at: 2019-09-18 17:48:10
Local clock offset: 1.726 ms
Remote clock offset: 65.184 ms

# Below is generated by plot.py at 2019-09-18 18:02:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.79 Mbit/s
95th percentile per-packet one-way delay: 107.125 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 91.79 Mbit/s
95th percentile per-packet one-way delay: 107.125 ms
Loss rate: 1.41%
```

Run 5: Report of Muses_DecisionTree — Data Link

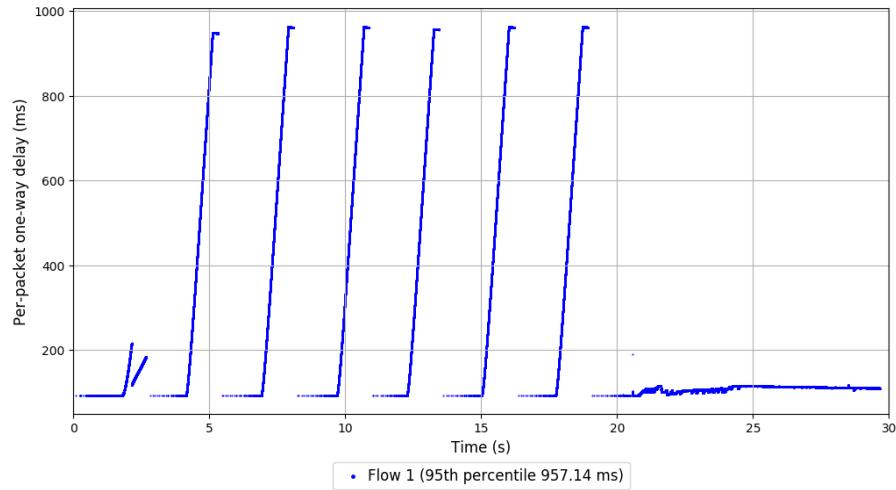
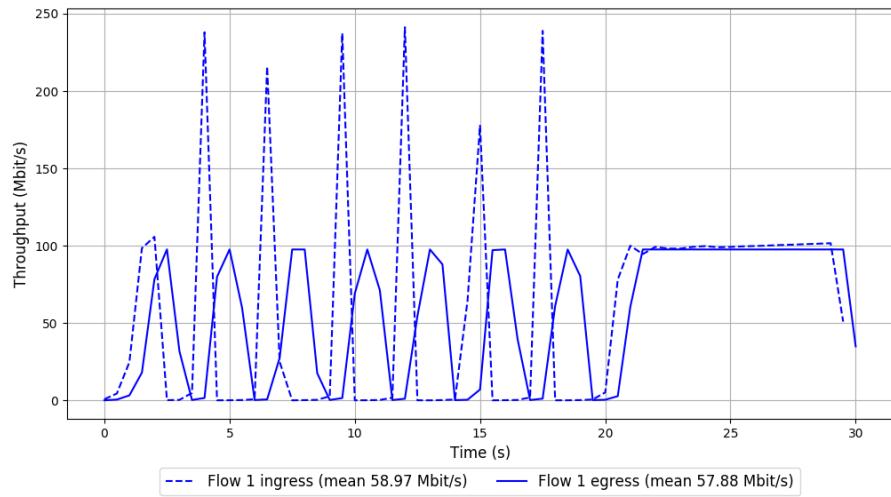


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-09-18 15:33:43
End at: 2019-09-18 15:34:13
Local clock offset: 1.917 ms
Remote clock offset: 37.913 ms

# Below is generated by plot.py at 2019-09-18 18:02:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.88 Mbit/s
95th percentile per-packet one-way delay: 957.145 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 57.88 Mbit/s
95th percentile per-packet one-way delay: 957.145 ms
Loss rate: 2.40%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

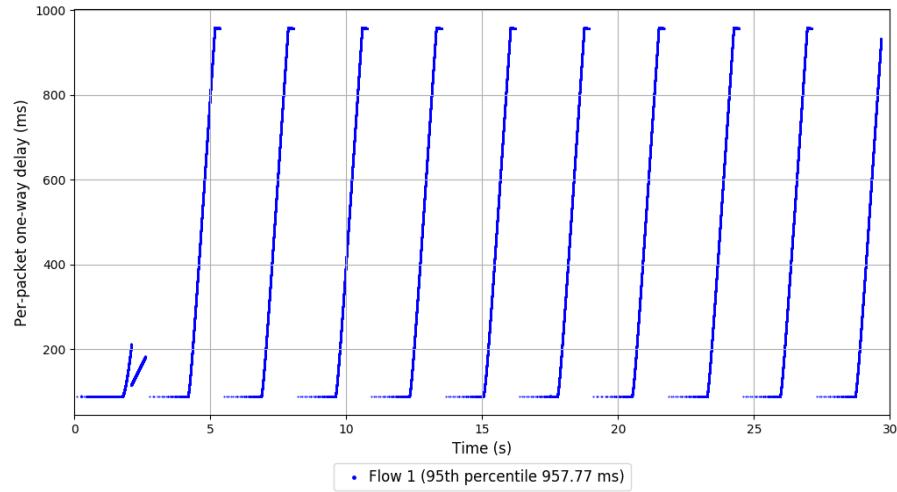
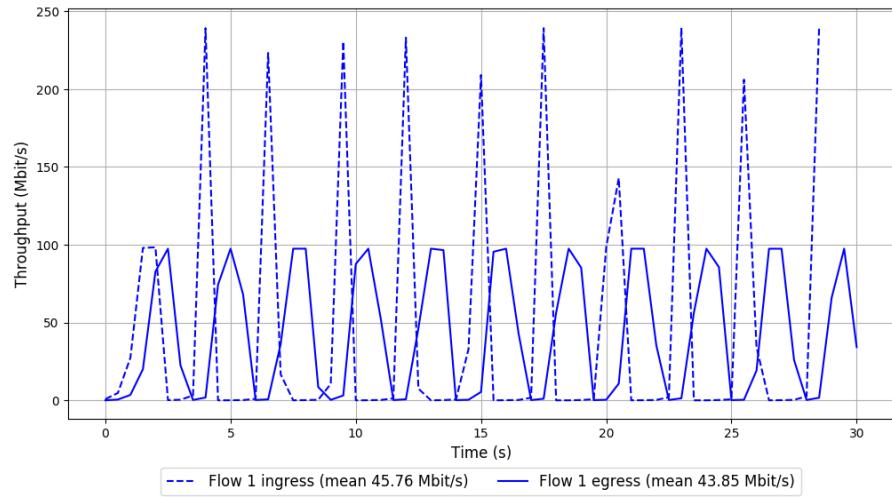


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-09-18 16:02:10
End at: 2019-09-18 16:02:40
Local clock offset: -5.283 ms
Remote clock offset: 45.023 ms

# Below is generated by plot.py at 2019-09-18 18:02:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.85 Mbit/s
95th percentile per-packet one-way delay: 957.771 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 43.85 Mbit/s
95th percentile per-packet one-way delay: 957.771 ms
Loss rate: 2.03%
```

Run 2: Report of Muses_DecisionTreeH0 — Data Link

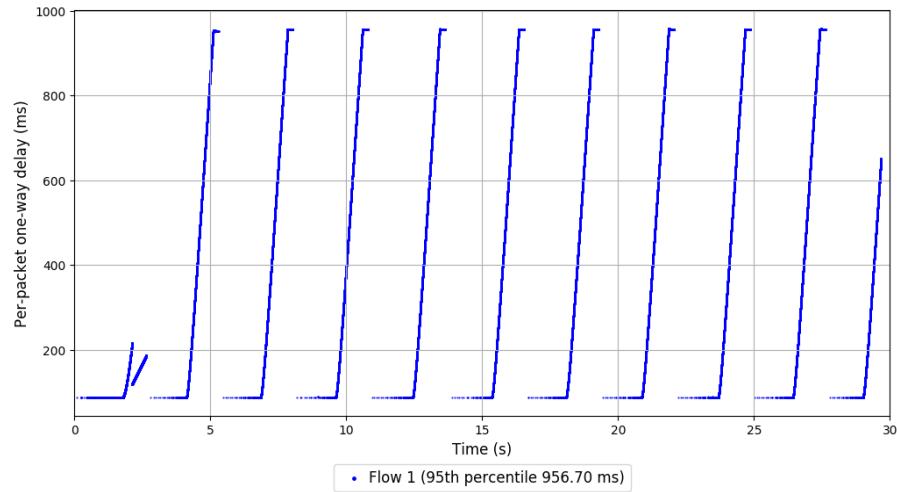
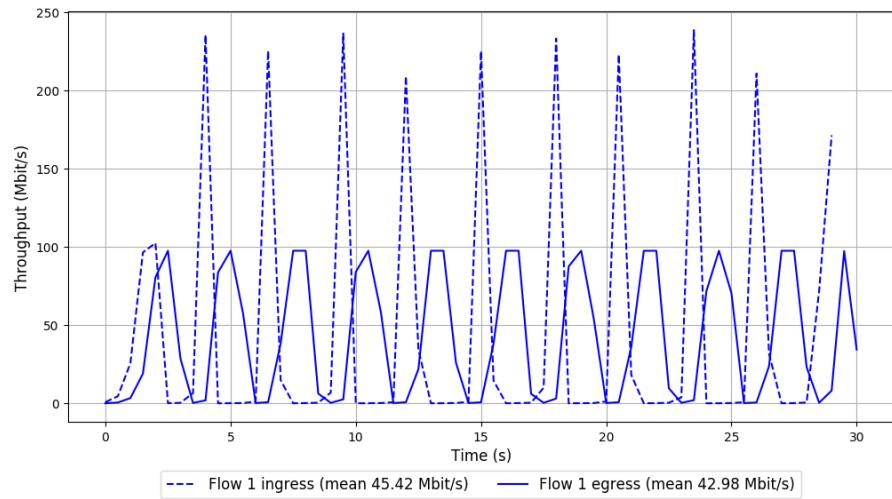


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-09-18 16:30:38
End at: 2019-09-18 16:31:08
Local clock offset: 4.953 ms
Remote clock offset: 53.044 ms

# Below is generated by plot.py at 2019-09-18 18:02:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.98 Mbit/s
95th percentile per-packet one-way delay: 956.696 ms
Loss rate: 4.25%
-- Flow 1:
Average throughput: 42.98 Mbit/s
95th percentile per-packet one-way delay: 956.696 ms
Loss rate: 4.25%
```

Run 3: Report of Muses_DecisionTreeH0 — Data Link

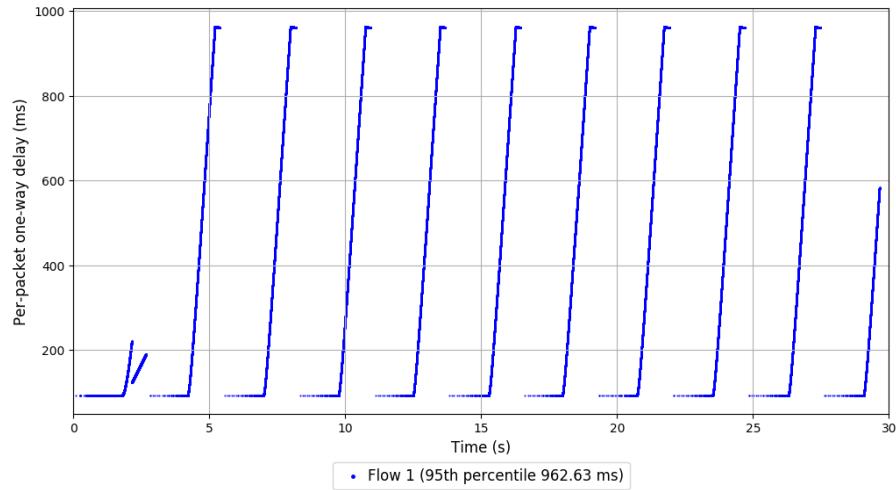
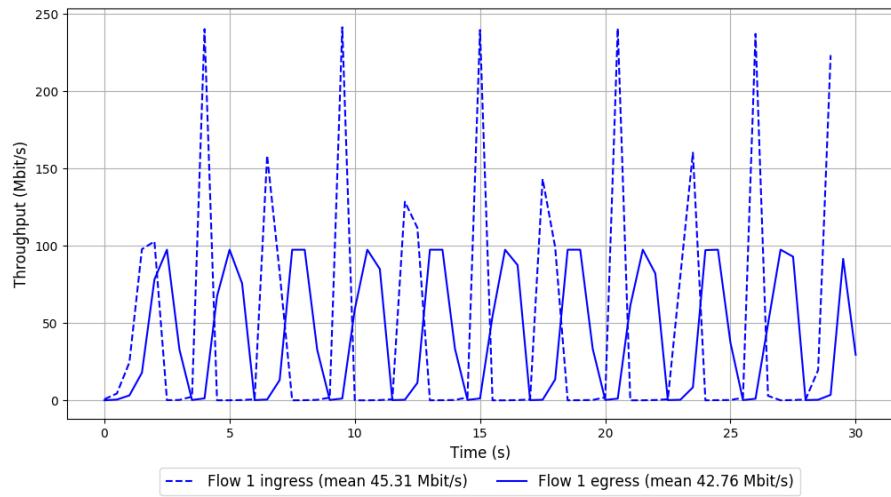


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-09-18 16:59:05
End at: 2019-09-18 16:59:35
Local clock offset: 4.403 ms
Remote clock offset: 55.701 ms

# Below is generated by plot.py at 2019-09-18 18:02:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.76 Mbit/s
95th percentile per-packet one-way delay: 962.635 ms
Loss rate: 4.79%
-- Flow 1:
Average throughput: 42.76 Mbit/s
95th percentile per-packet one-way delay: 962.635 ms
Loss rate: 4.79%
```

Run 4: Report of Muses_DecisionTreeH0 — Data Link

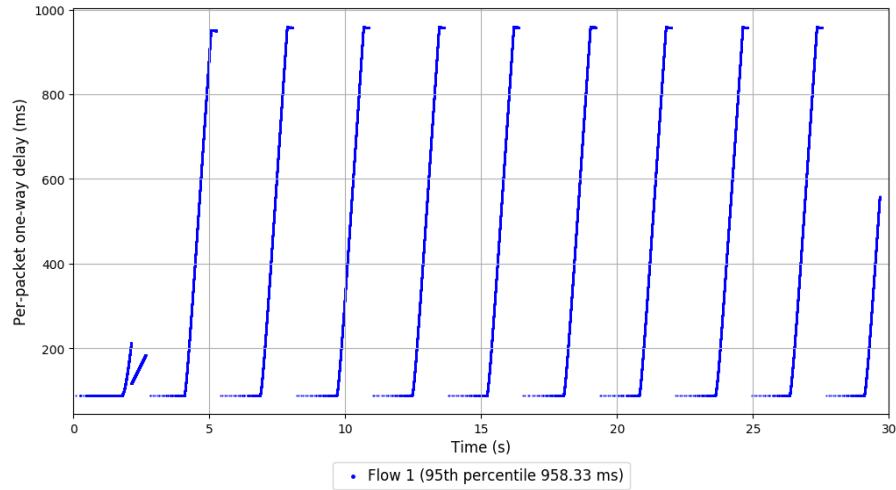
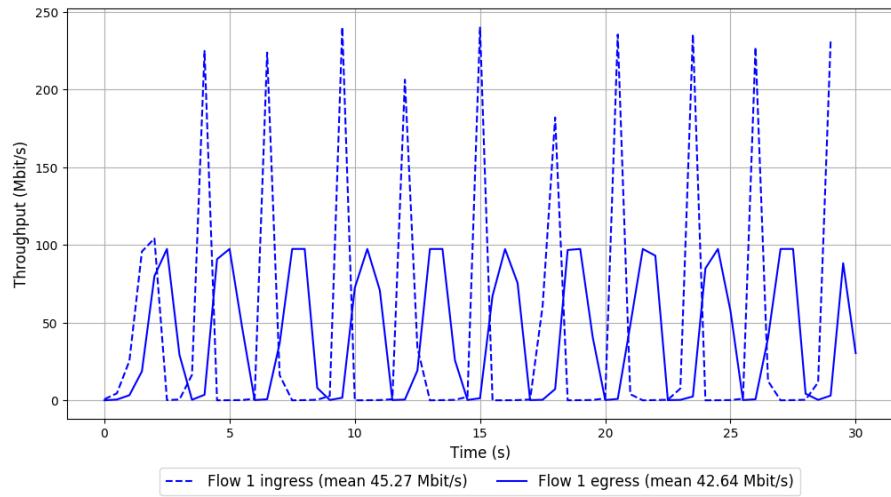


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-09-18 17:27:30
End at: 2019-09-18 17:28:00
Local clock offset: 3.269 ms
Remote clock offset: 60.929 ms

# Below is generated by plot.py at 2019-09-18 18:02:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.64 Mbit/s
95th percentile per-packet one-way delay: 958.333 ms
Loss rate: 5.00%
-- Flow 1:
Average throughput: 42.64 Mbit/s
95th percentile per-packet one-way delay: 958.333 ms
Loss rate: 5.00%
```

Run 5: Report of Muses_DecisionTreeH0 — Data Link

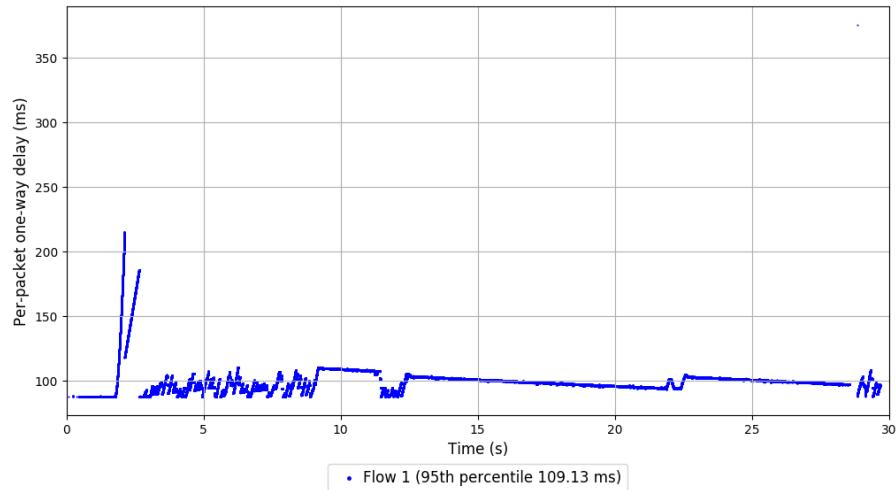
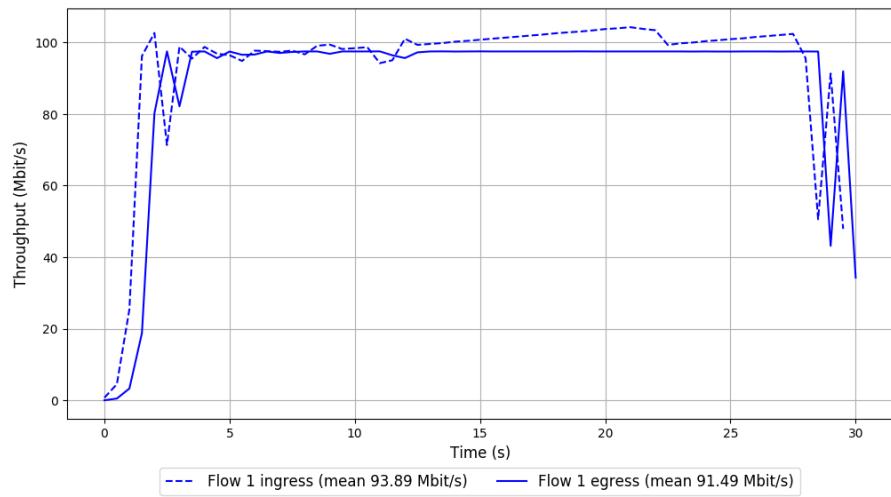


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-18 15:39:39
End at: 2019-09-18 15:40:09
Local clock offset: -1.449 ms
Remote clock offset: 41.477 ms

# Below is generated by plot.py at 2019-09-18 18:03:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.49 Mbit/s
95th percentile per-packet one-way delay: 109.127 ms
Loss rate: 3.08%
-- Flow 1:
Average throughput: 91.49 Mbit/s
95th percentile per-packet one-way delay: 109.127 ms
Loss rate: 3.08%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

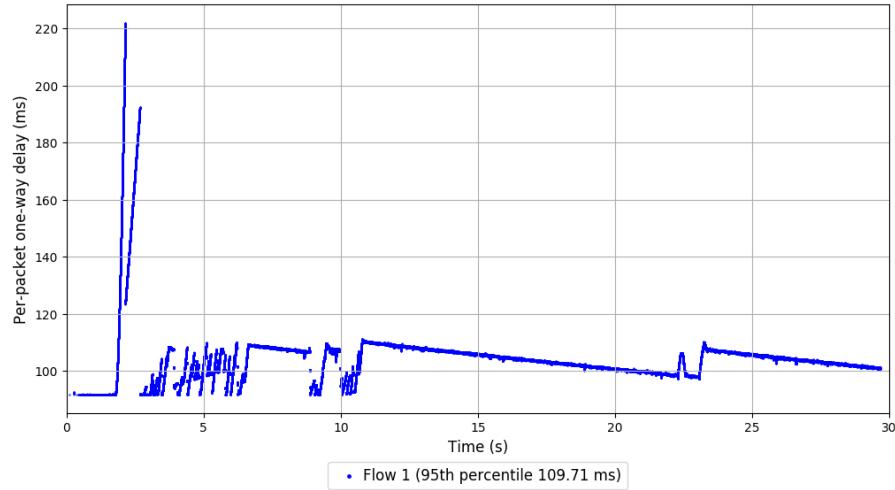
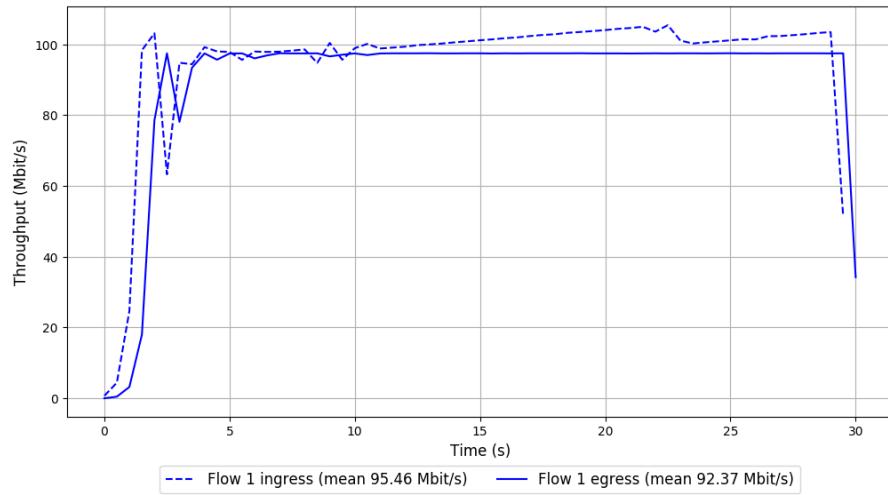


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-18 16:08:07
End at: 2019-09-18 16:08:37
Local clock offset: 0.365 ms
Remote clock offset: 46.882 ms

# Below is generated by plot.py at 2019-09-18 18:03:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 109.708 ms
Loss rate: 3.78%
-- Flow 1:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 109.708 ms
Loss rate: 3.78%
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link

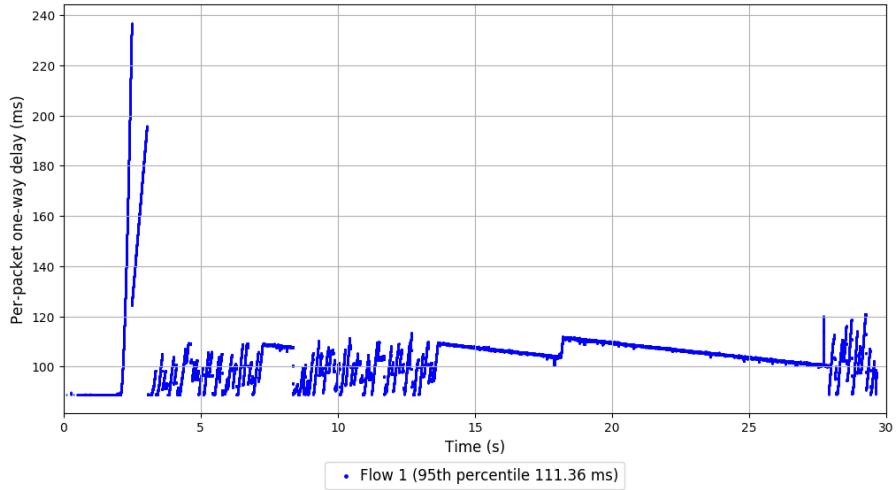
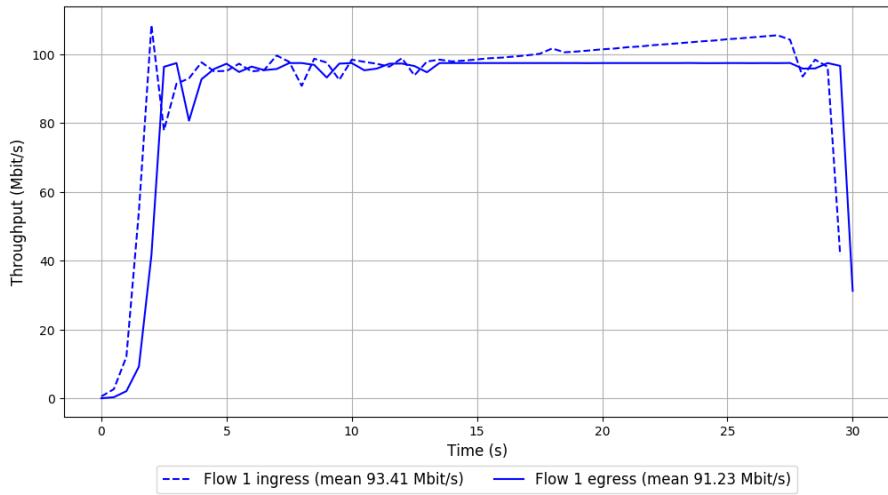


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-18 16:36:35
End at: 2019-09-18 16:37:05
Local clock offset: 4.837 ms
Remote clock offset: 52.39 ms

# Below is generated by plot.py at 2019-09-18 18:03:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 111.357 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 111.357 ms
Loss rate: 2.85%
```

Run 3: Report of Muses_DecisionTreeR0 — Data Link

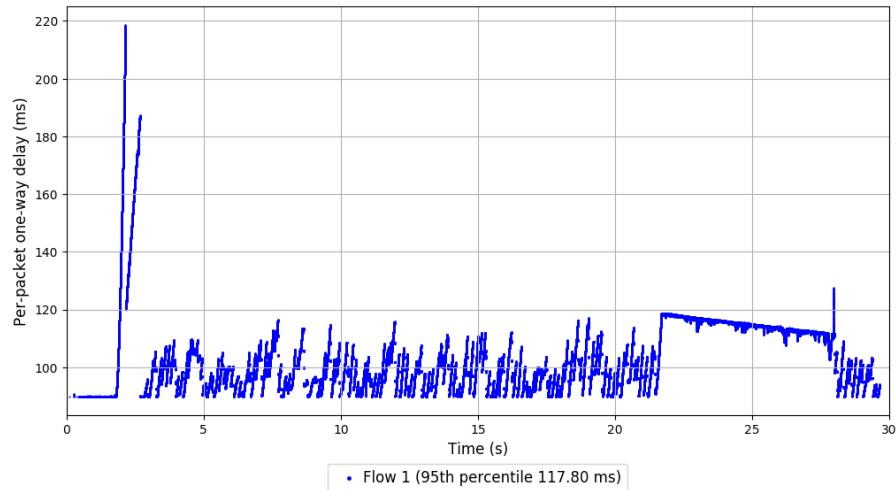
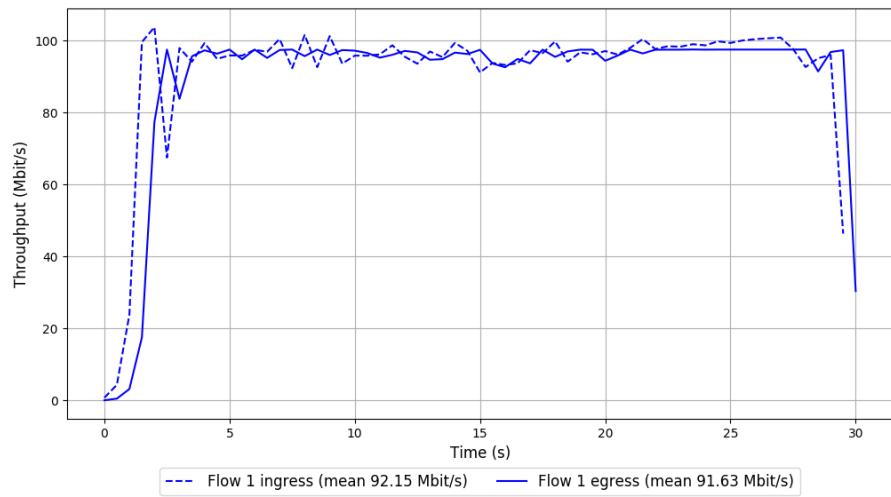


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-18 17:05:01
End at: 2019-09-18 17:05:31
Local clock offset: 3.437 ms
Remote clock offset: 59.552 ms

# Below is generated by plot.py at 2019-09-18 18:03:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.63 Mbit/s
95th percentile per-packet one-way delay: 117.802 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 91.63 Mbit/s
95th percentile per-packet one-way delay: 117.802 ms
Loss rate: 1.12%
```

Run 4: Report of Muses_DecisionTreeR0 — Data Link

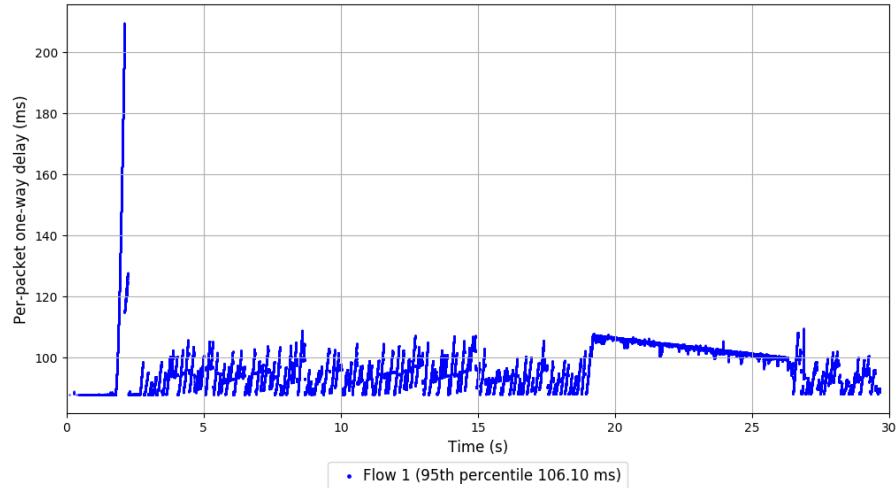
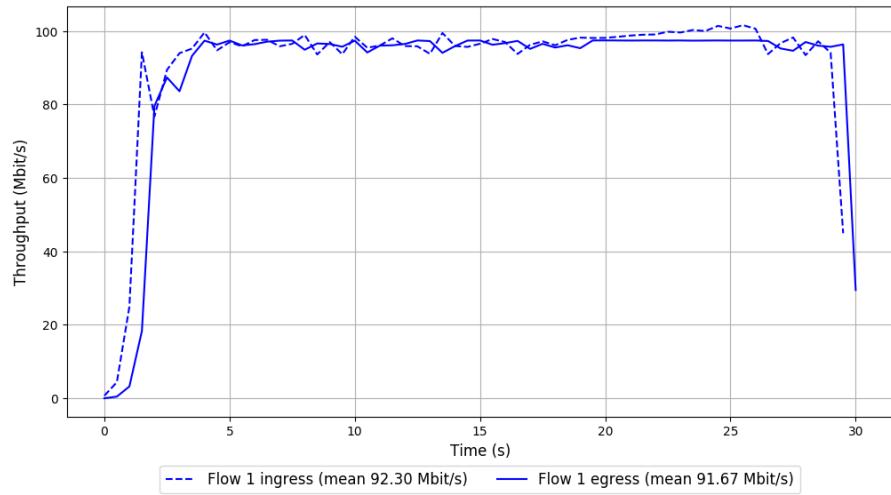


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-18 17:33:28
End at: 2019-09-18 17:33:58
Local clock offset: 2.801 ms
Remote clock offset: 62.547 ms

# Below is generated by plot.py at 2019-09-18 18:03:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 106.096 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 106.096 ms
Loss rate: 1.22%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link

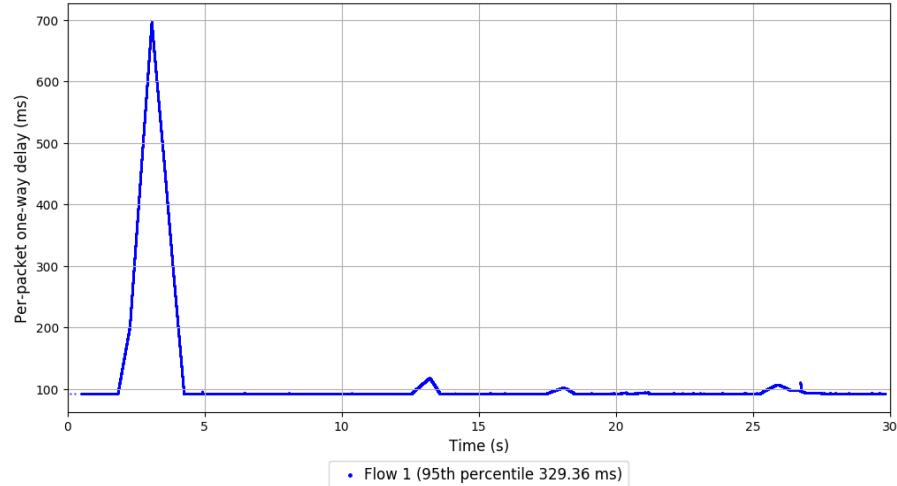
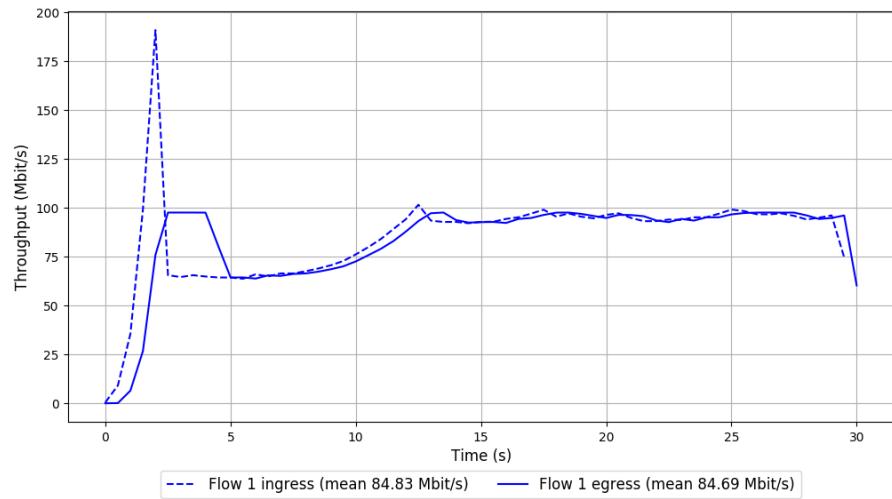


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-09-18 15:56:13
End at: 2019-09-18 15:56:43
Local clock offset: -5.607 ms
Remote clock offset: 44.372 ms

# Below is generated by plot.py at 2019-09-18 18:03:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.69 Mbit/s
95th percentile per-packet one-way delay: 329.359 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 84.69 Mbit/s
95th percentile per-packet one-way delay: 329.359 ms
Loss rate: 0.72%
```

Run 1: Report of PCC-Allegro — Data Link

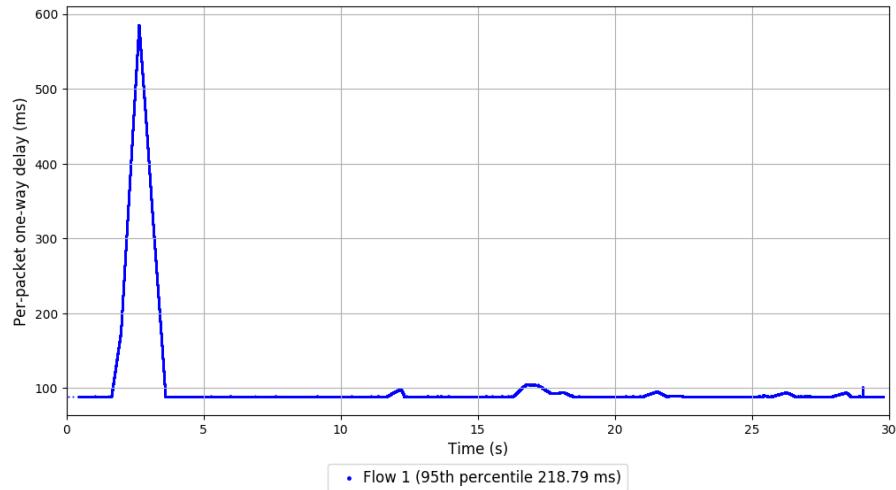
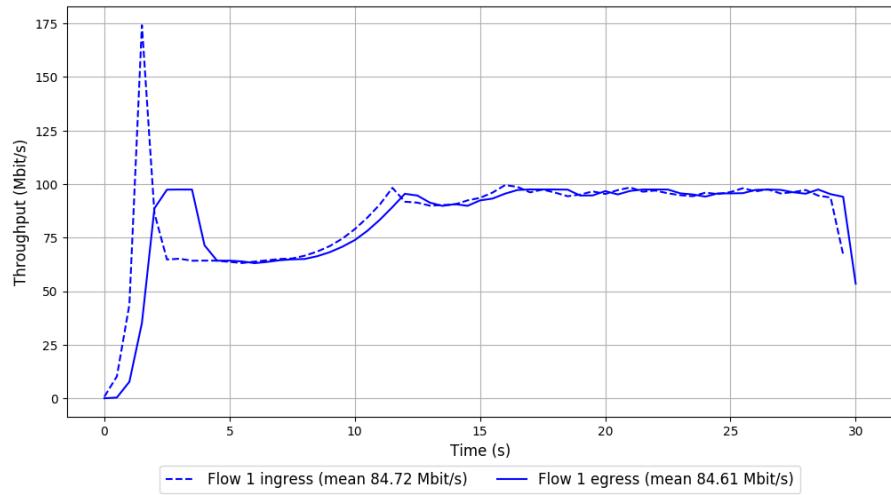


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-09-18 16:24:42
End at: 2019-09-18 16:25:12
Local clock offset: 4.357 ms
Remote clock offset: 49.555 ms

# Below is generated by plot.py at 2019-09-18 18:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.61 Mbit/s
95th percentile per-packet one-way delay: 218.795 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 84.61 Mbit/s
95th percentile per-packet one-way delay: 218.795 ms
Loss rate: 0.66%
```

Run 2: Report of PCC-Allegro — Data Link

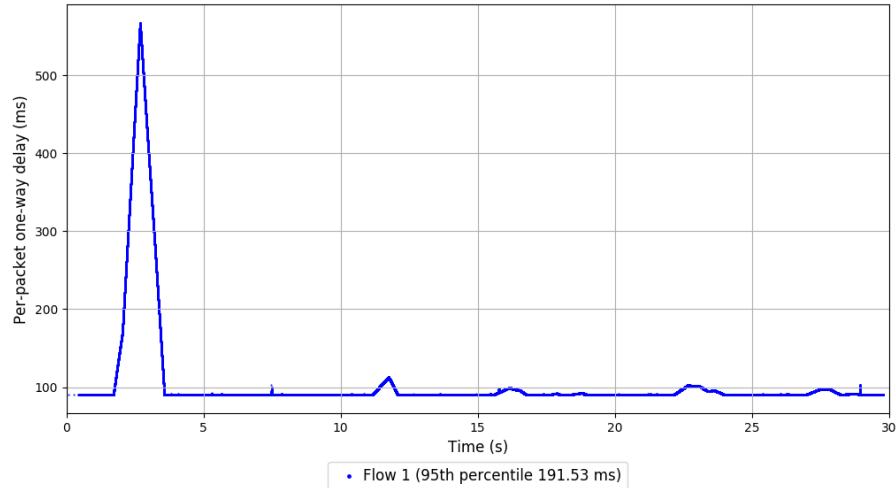
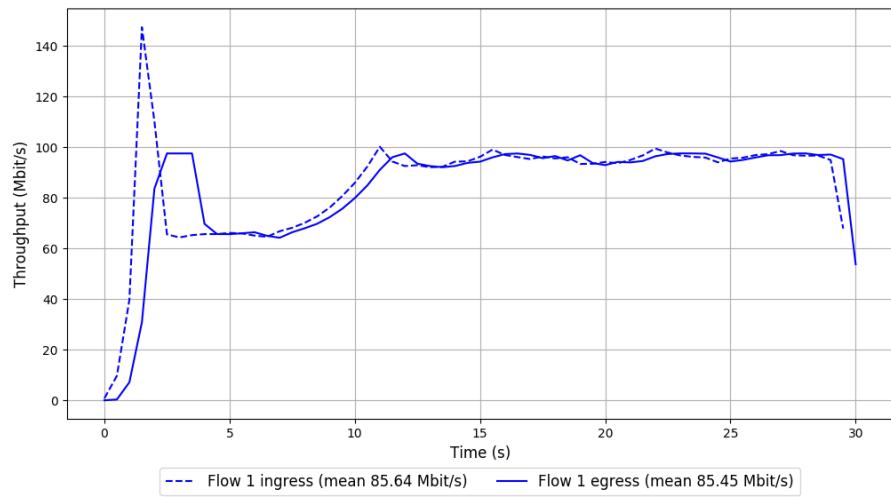


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-09-18 16:53:08
End at: 2019-09-18 16:53:38
Local clock offset: 4.376 ms
Remote clock offset: 57.055 ms

# Below is generated by plot.py at 2019-09-18 18:03:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.45 Mbit/s
95th percentile per-packet one-way delay: 191.532 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 85.45 Mbit/s
95th percentile per-packet one-way delay: 191.532 ms
Loss rate: 0.76%
```

Run 3: Report of PCC-Allegro — Data Link

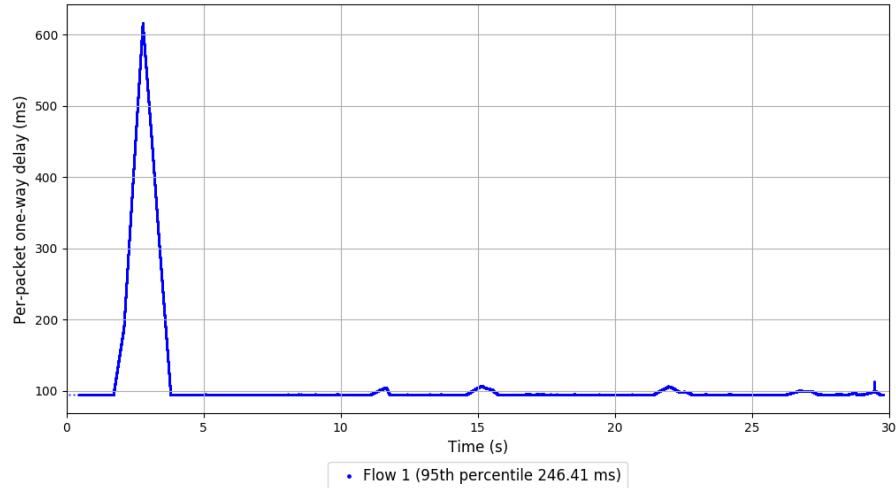
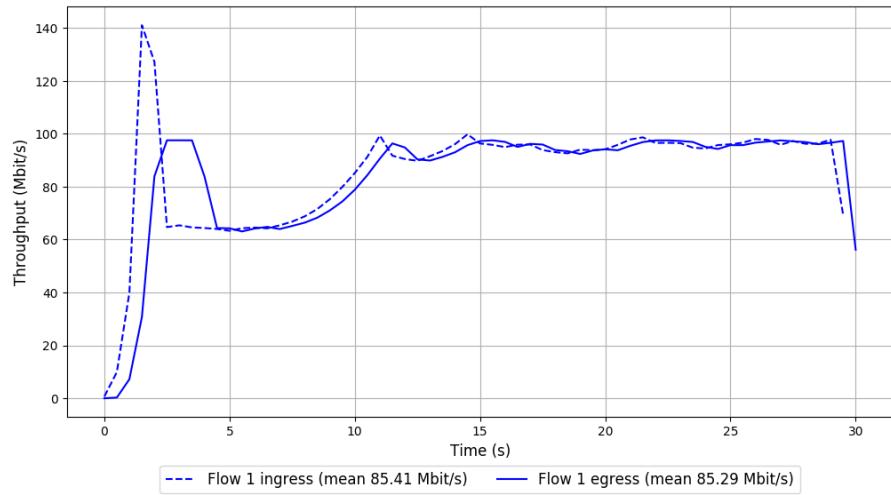


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-09-18 17:21:33
End at: 2019-09-18 17:22:03
Local clock offset: 4.014 ms
Remote clock offset: 58.34 ms

# Below is generated by plot.py at 2019-09-18 18:04:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.29 Mbit/s
95th percentile per-packet one-way delay: 246.408 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 85.29 Mbit/s
95th percentile per-packet one-way delay: 246.408 ms
Loss rate: 0.69%
```

Run 4: Report of PCC-Allegro — Data Link

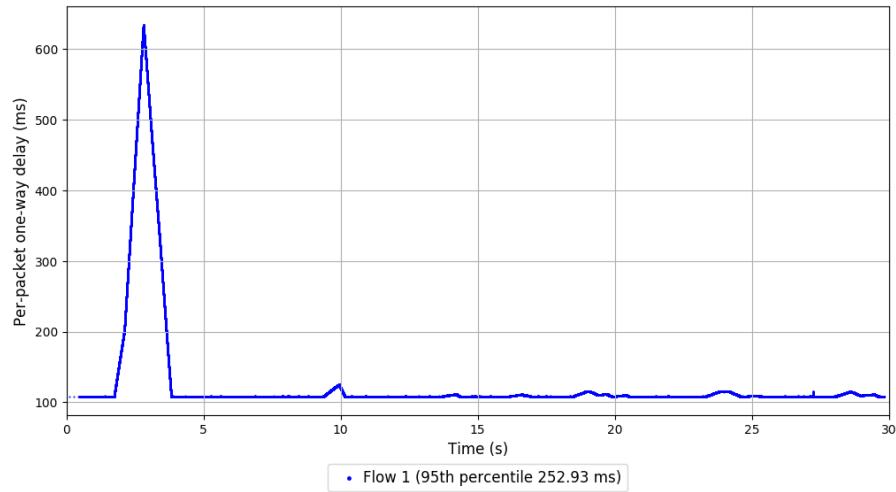
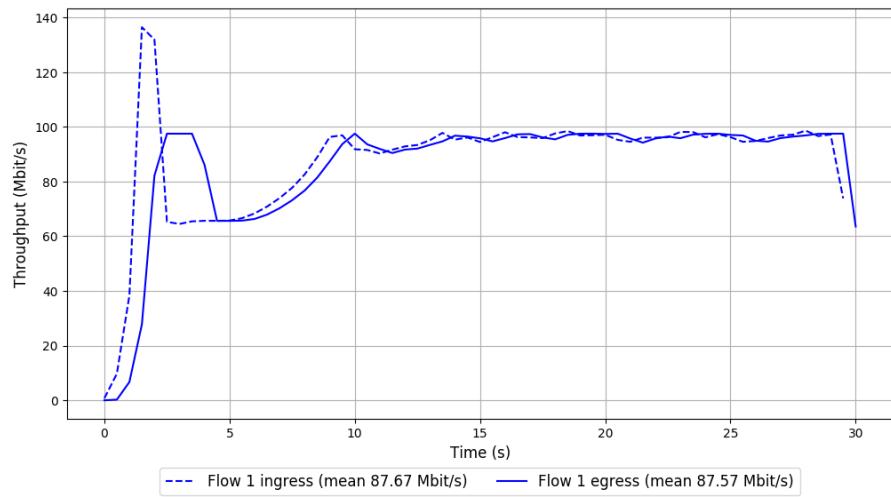


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-09-18 17:50:02
End at: 2019-09-18 17:50:32
Local clock offset: 18.028 ms
Remote clock offset: 65.355 ms

# Below is generated by plot.py at 2019-09-18 18:04:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 252.928 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 252.928 ms
Loss rate: 0.66%
```

Run 5: Report of PCC-Allegro — Data Link

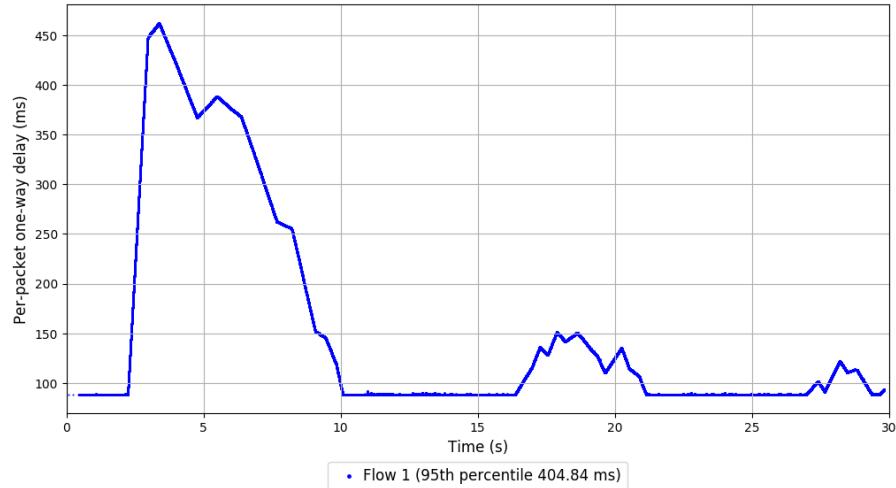
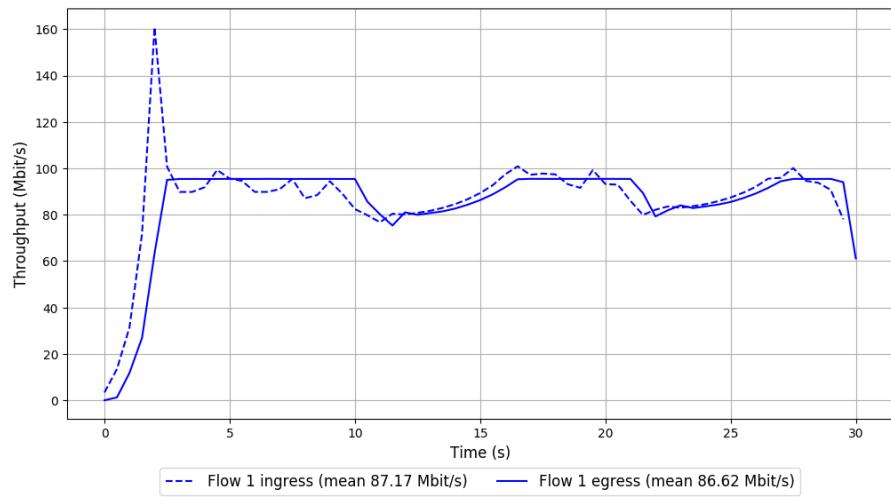


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-09-18 15:30:05
End at: 2019-09-18 15:30:35
Local clock offset: 3.537 ms
Remote clock offset: 36.807 ms

# Below is generated by plot.py at 2019-09-18 18:05:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.62 Mbit/s
95th percentile per-packet one-way delay: 404.838 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 86.62 Mbit/s
95th percentile per-packet one-way delay: 404.838 ms
Loss rate: 1.16%
```

Run 1: Report of PCC-Expr — Data Link

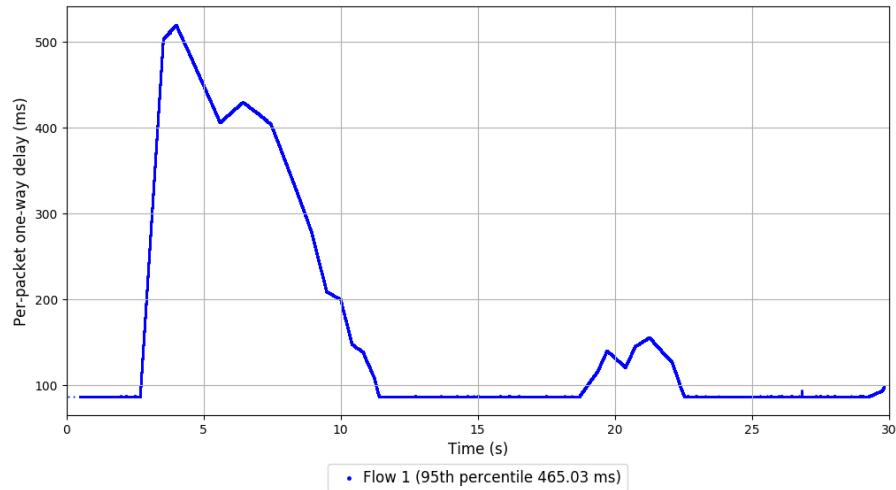
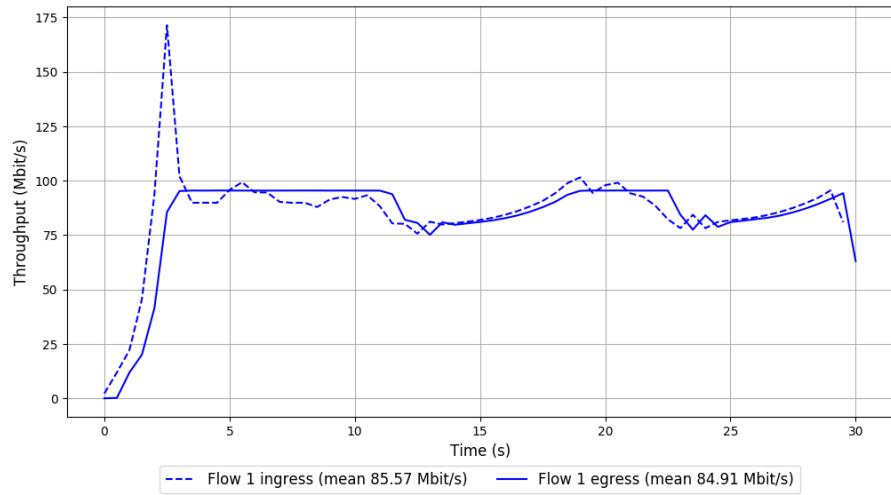


Run 2: Statistics of PCC-Expr

```
Start at: 2019-09-18 15:58:32
End at: 2019-09-18 15:59:02
Local clock offset: -6.752 ms
Remote clock offset: 46.148 ms

# Below is generated by plot.py at 2019-09-18 18:05:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 465.027 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 465.027 ms
Loss rate: 1.31%
```

Run 2: Report of PCC-Expr — Data Link

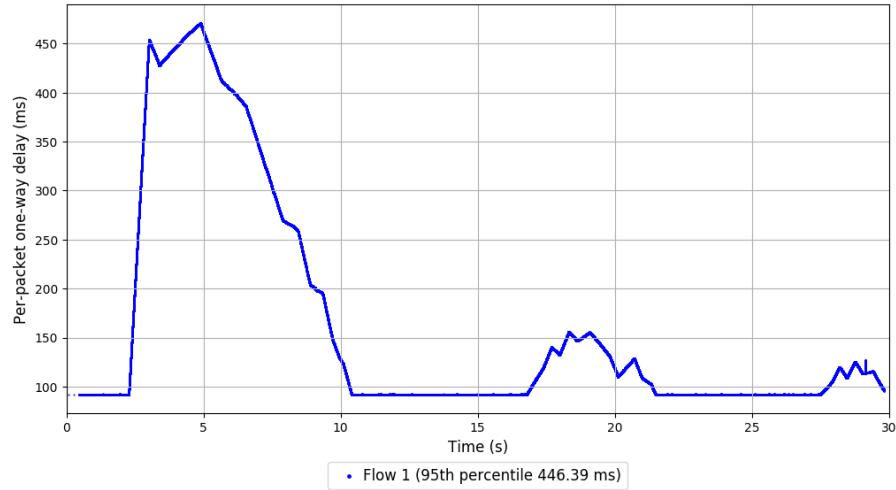
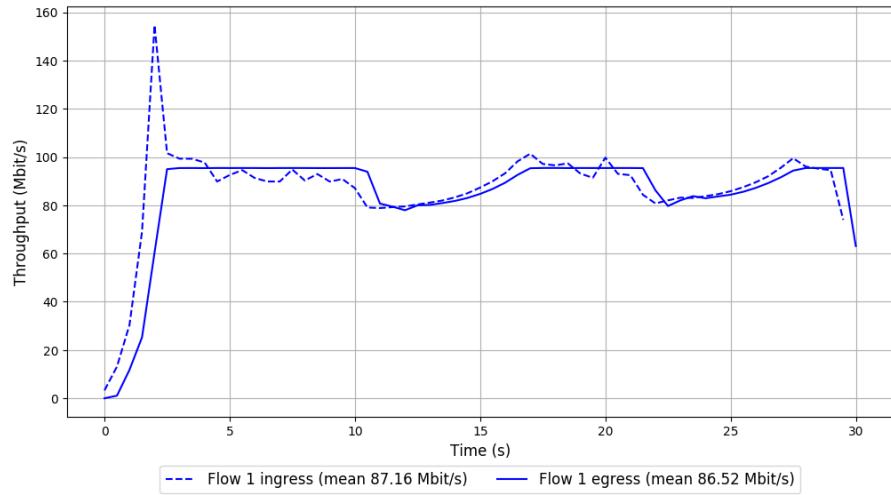


Run 3: Statistics of PCC-Expr

```
Start at: 2019-09-18 16:27:00
End at: 2019-09-18 16:27:30
Local clock offset: 4.611 ms
Remote clock offset: 50.864 ms

# Below is generated by plot.py at 2019-09-18 18:05:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.52 Mbit/s
95th percentile per-packet one-way delay: 446.391 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 86.52 Mbit/s
95th percentile per-packet one-way delay: 446.391 ms
Loss rate: 1.28%
```

Run 3: Report of PCC-Expr — Data Link

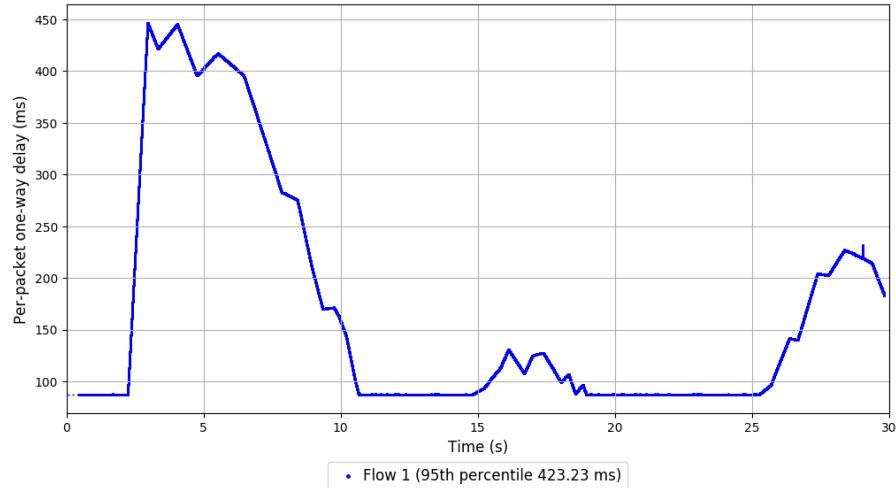
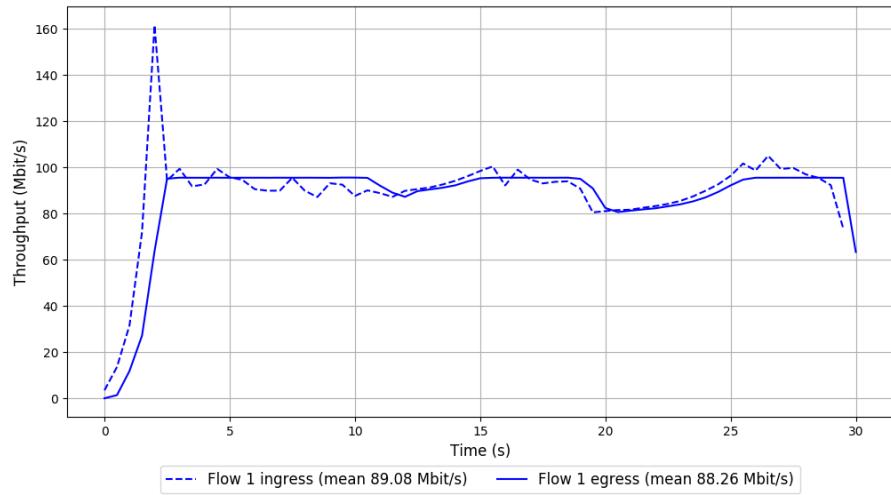


Run 4: Statistics of PCC-Expr

```
Start at: 2019-09-18 16:55:26
End at: 2019-09-18 16:55:56
Local clock offset: 3.623 ms
Remote clock offset: 56.72 ms

# Below is generated by plot.py at 2019-09-18 18:05:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.26 Mbit/s
95th percentile per-packet one-way delay: 423.234 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 88.26 Mbit/s
95th percentile per-packet one-way delay: 423.234 ms
Loss rate: 1.45%
```

Run 4: Report of PCC-Expr — Data Link

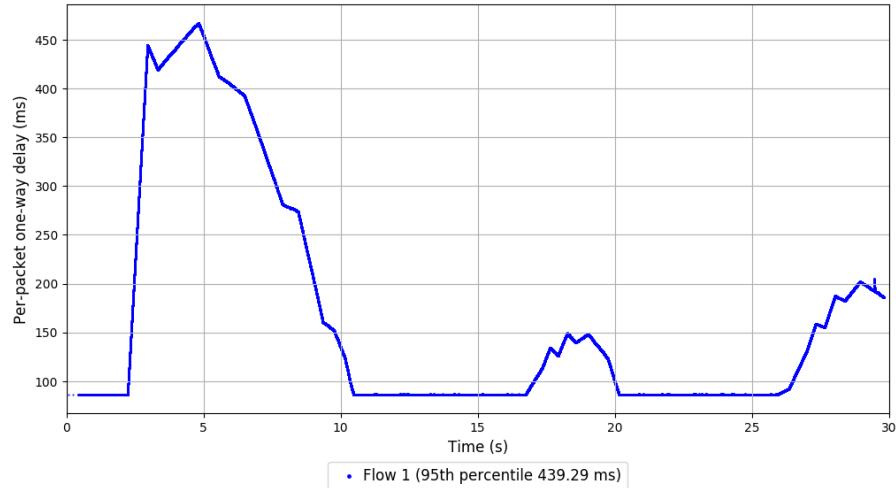
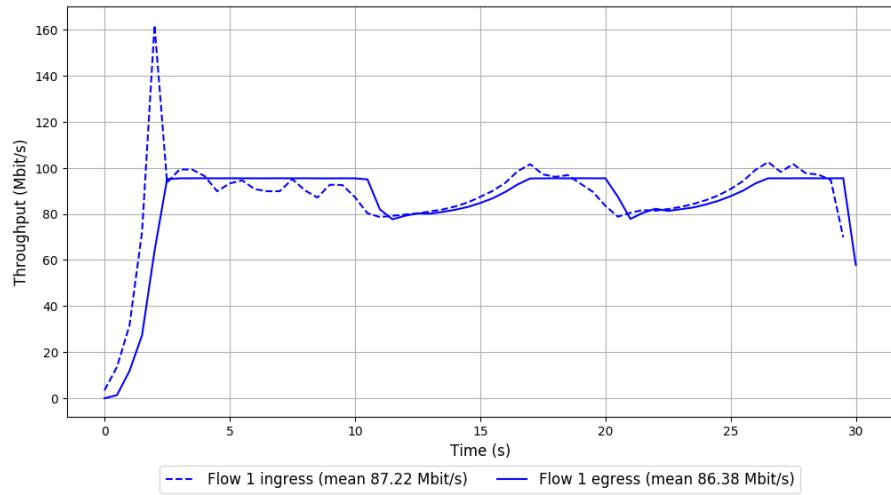


Run 5: Statistics of PCC-Expr

```
Start at: 2019-09-18 17:23:52
End at: 2019-09-18 17:24:22
Local clock offset: 3.246 ms
Remote clock offset: 62.78 ms

# Below is generated by plot.py at 2019-09-18 18:05:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.38 Mbit/s
95th percentile per-packet one-way delay: 439.294 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 86.38 Mbit/s
95th percentile per-packet one-way delay: 439.294 ms
Loss rate: 1.51%
```

Run 5: Report of PCC-Expr — Data Link

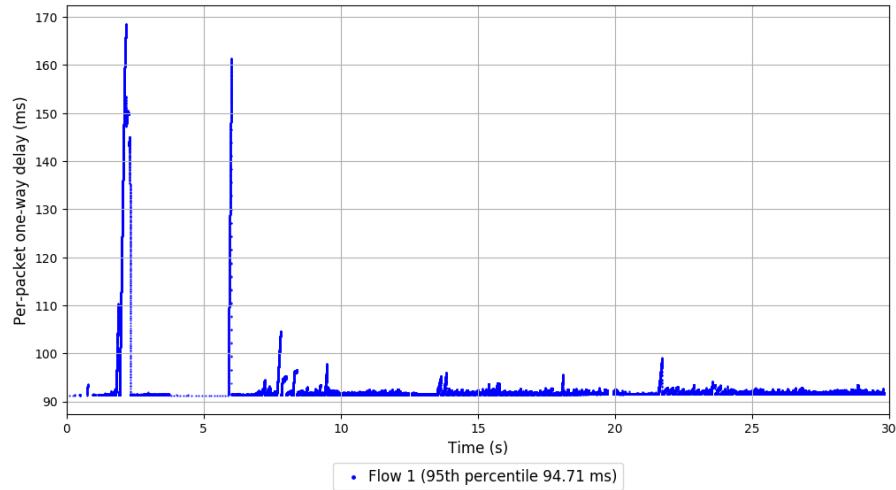
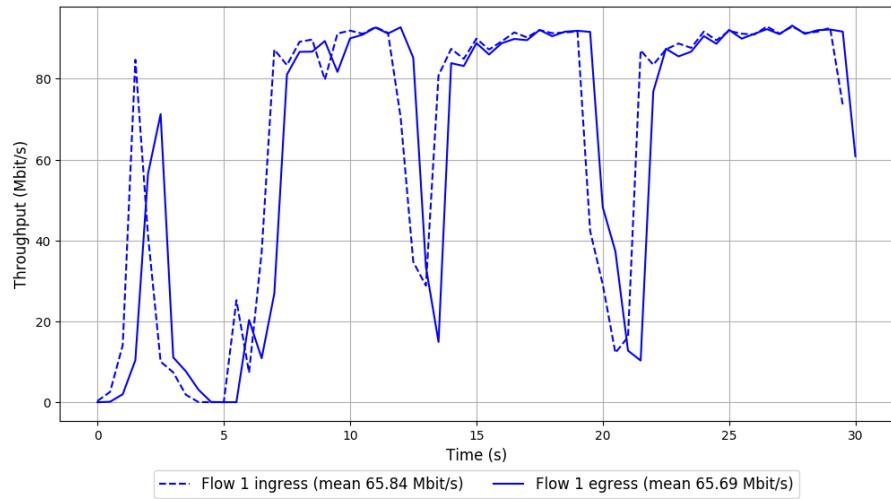


Run 1: Statistics of QUIC Cubic

```
Start at: 2019-09-18 15:49:04
End at: 2019-09-18 15:49:34
Local clock offset: -5.136 ms
Remote clock offset: 41.93 ms

# Below is generated by plot.py at 2019-09-18 18:05:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.69 Mbit/s
95th percentile per-packet one-way delay: 94.712 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 65.69 Mbit/s
95th percentile per-packet one-way delay: 94.712 ms
Loss rate: 0.77%
```

Run 1: Report of QUIC Cubic — Data Link

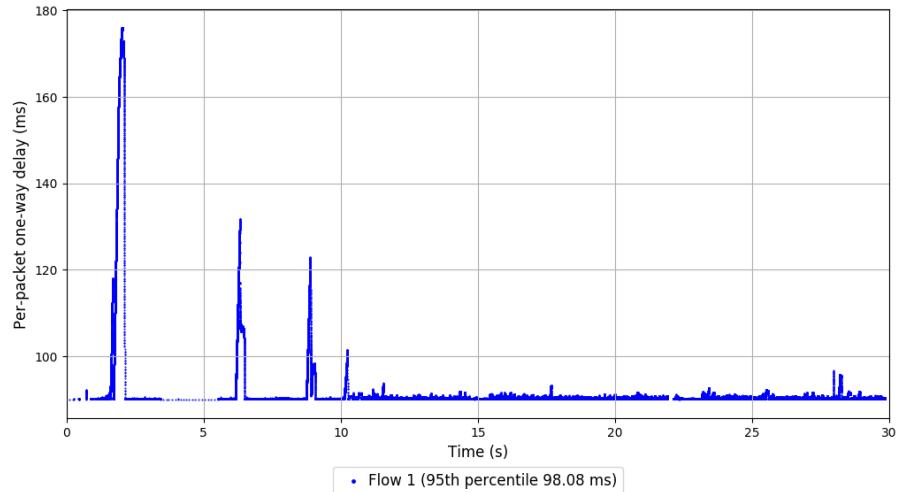
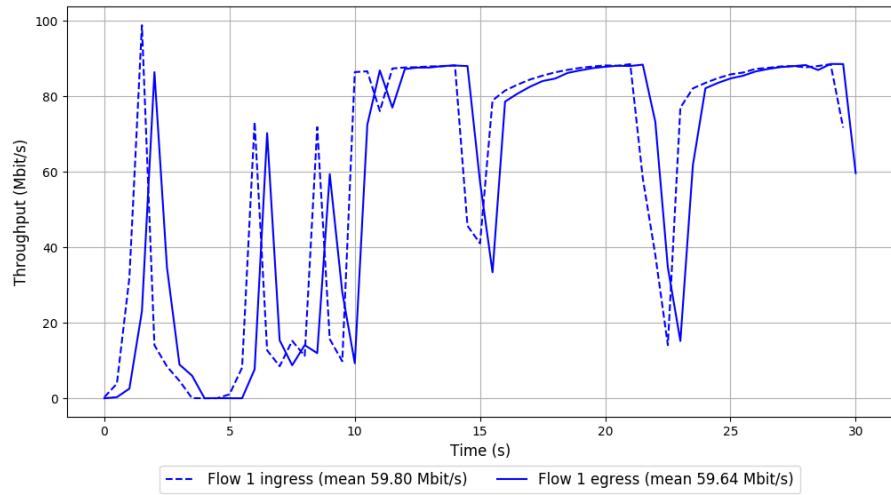


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-09-18 16:17:32
End at: 2019-09-18 16:18:02
Local clock offset: 3.181 ms
Remote clock offset: 50.681 ms

# Below is generated by plot.py at 2019-09-18 18:05:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.64 Mbit/s
95th percentile per-packet one-way delay: 98.076 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 59.64 Mbit/s
95th percentile per-packet one-way delay: 98.076 ms
Loss rate: 0.82%
```

Run 2: Report of QUIC Cubic — Data Link

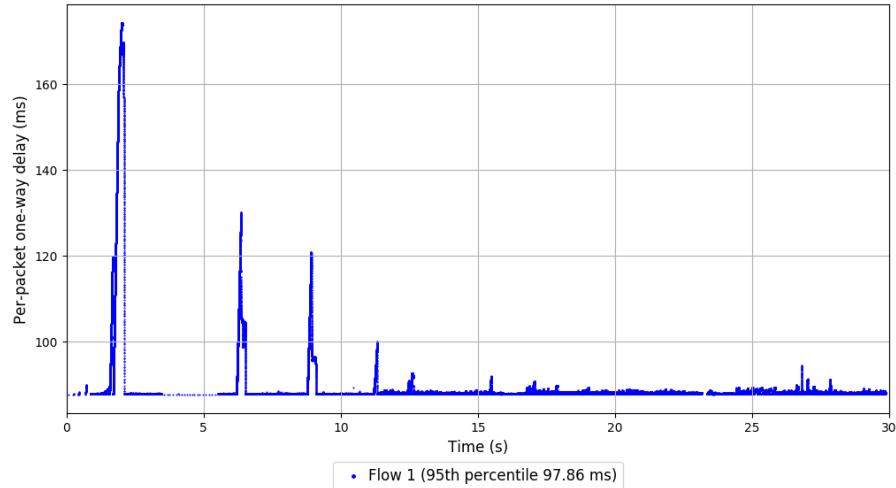
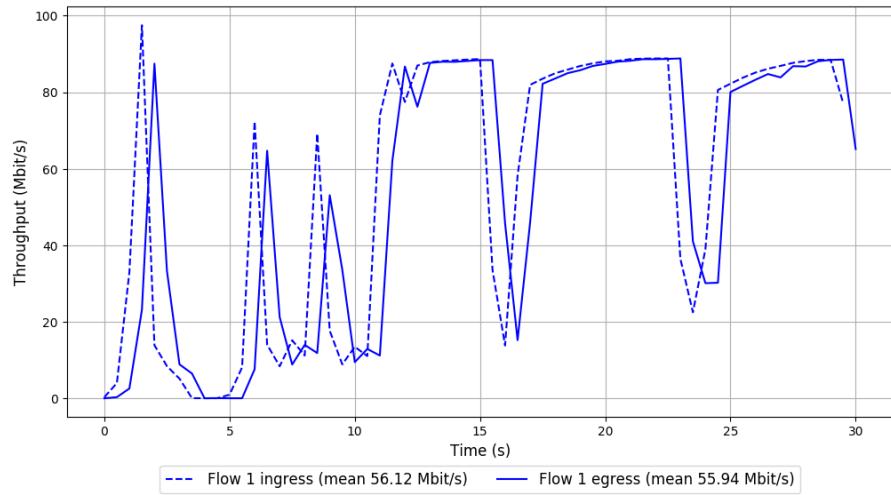


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-09-18 16:46:00
End at: 2019-09-18 16:46:30
Local clock offset: 3.665 ms
Remote clock offset: 54.286 ms

# Below is generated by plot.py at 2019-09-18 18:05:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.94 Mbit/s
95th percentile per-packet one-way delay: 97.865 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 55.94 Mbit/s
95th percentile per-packet one-way delay: 97.865 ms
Loss rate: 0.86%
```

Run 3: Report of QUIC Cubic — Data Link

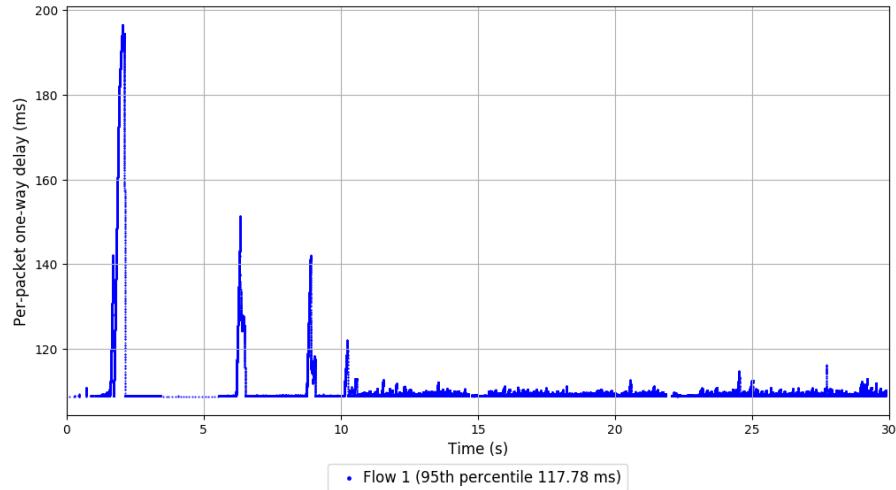
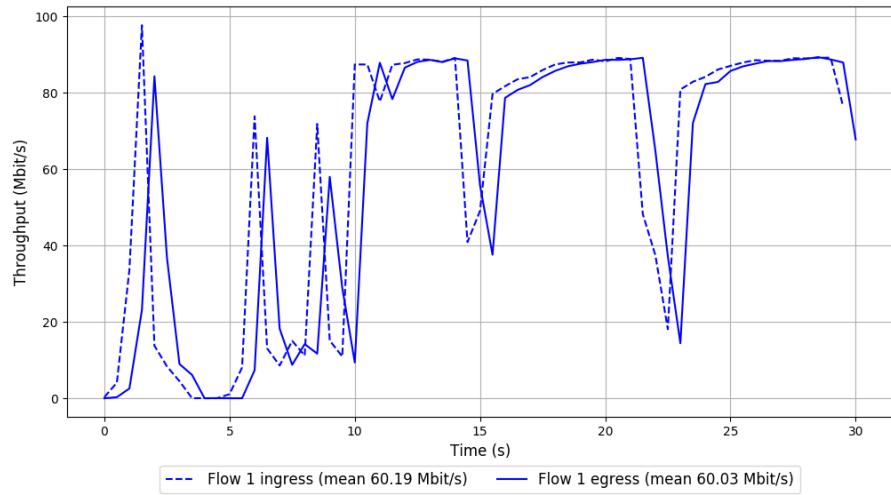


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-09-18 17:14:25
End at: 2019-09-18 17:14:55
Local clock offset: 25.592 ms
Remote clock offset: 60.404 ms

# Below is generated by plot.py at 2019-09-18 18:05:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.03 Mbit/s
95th percentile per-packet one-way delay: 117.783 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 60.03 Mbit/s
95th percentile per-packet one-way delay: 117.783 ms
Loss rate: 0.81%
```

Run 4: Report of QUIC Cubic — Data Link

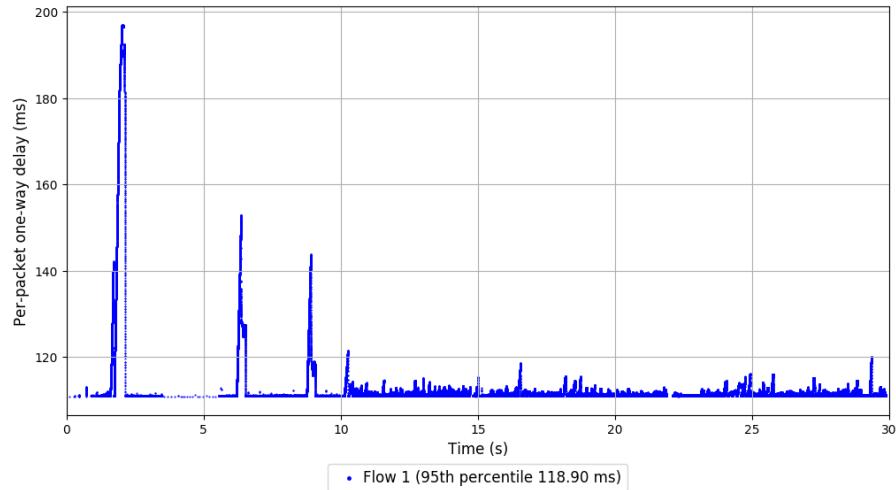
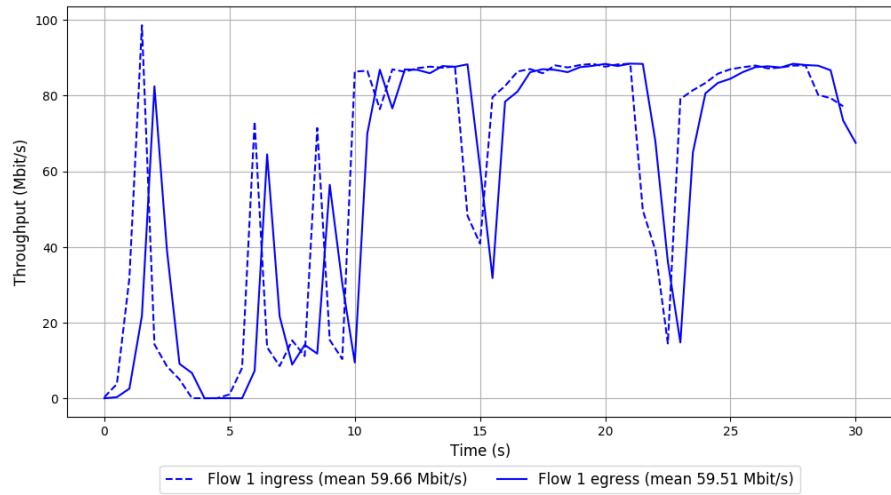


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-09-18 17:42:53
End at: 2019-09-18 17:43:23
Local clock offset: 22.025 ms
Remote clock offset: 64.702 ms

# Below is generated by plot.py at 2019-09-18 18:05:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.51 Mbit/s
95th percentile per-packet one-way delay: 118.904 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 59.51 Mbit/s
95th percentile per-packet one-way delay: 118.904 ms
Loss rate: 0.80%
```

Run 5: Report of QUIC Cubic — Data Link

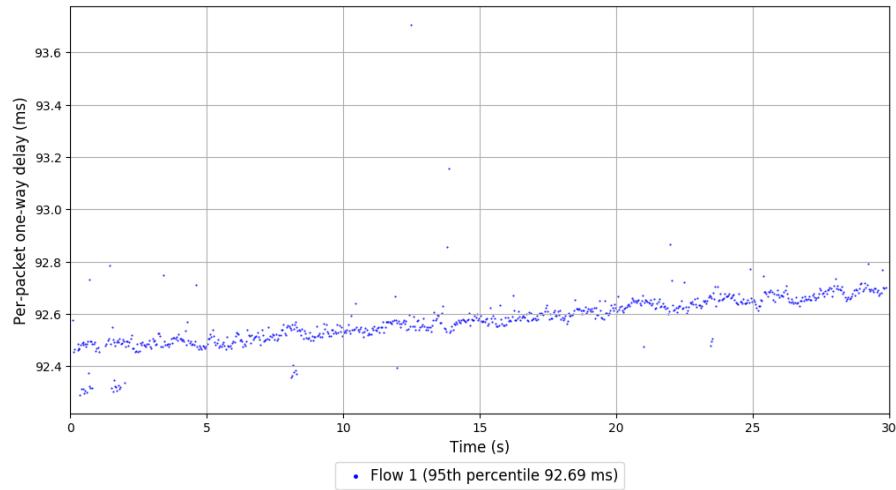
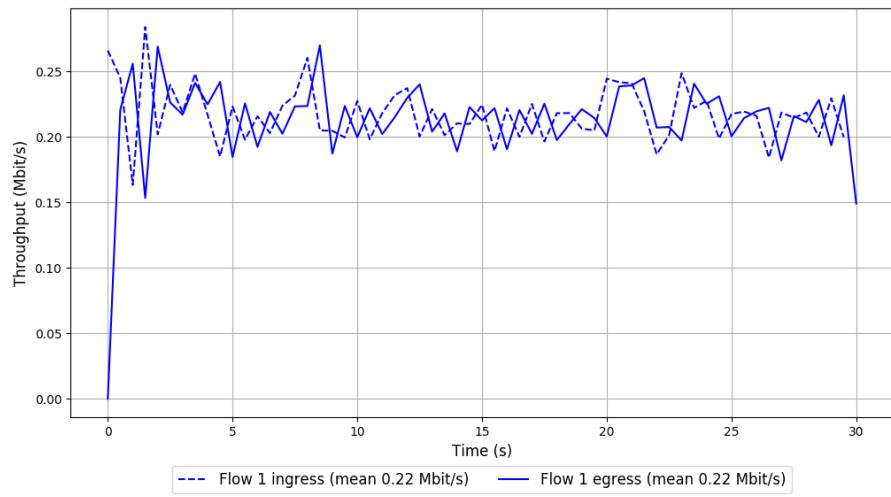


Run 1: Statistics of SCReAM

```
Start at: 2019-09-18 15:46:43
End at: 2019-09-18 15:47:13
Local clock offset: -3.821 ms
Remote clock offset: 41.212 ms

# Below is generated by plot.py at 2019-09-18 18:05:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.695 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.695 ms
Loss rate: 0.64%
```

Run 1: Report of SCReAM — Data Link

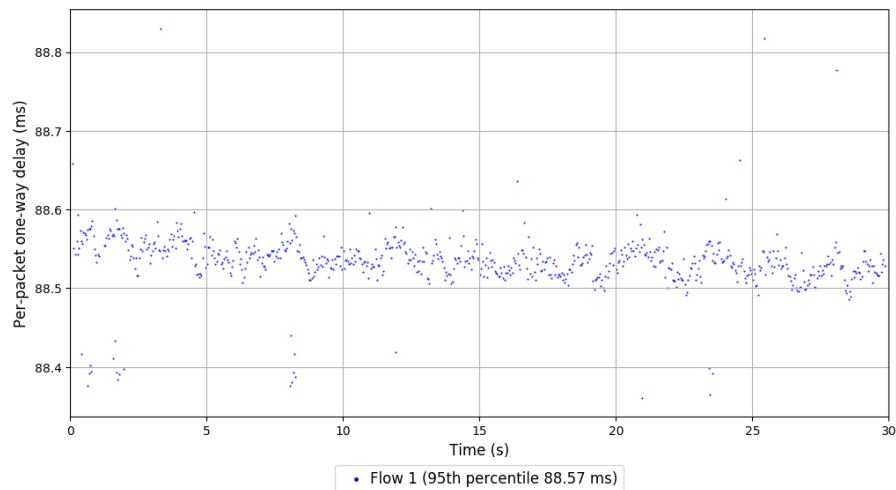
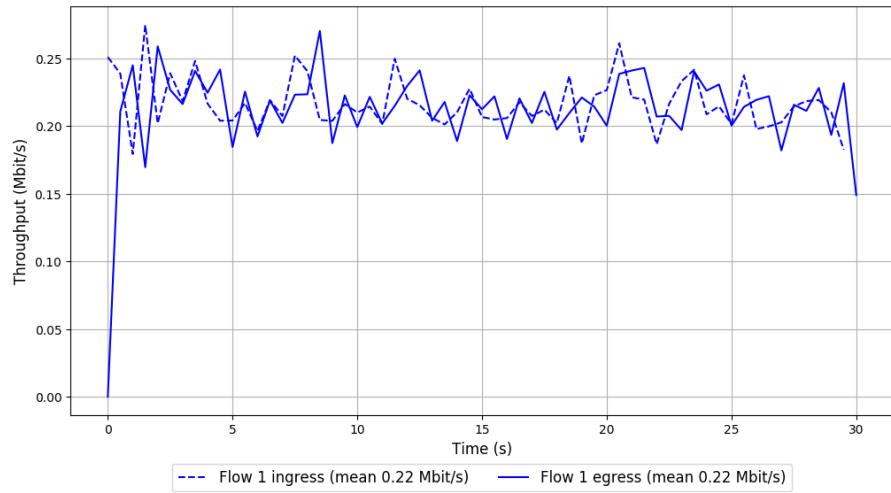


Run 2: Statistics of SCReAM

```
Start at: 2019-09-18 16:15:11
End at: 2019-09-18 16:15:41
Local clock offset: 2.571 ms
Remote clock offset: 47.778 ms

# Below is generated by plot.py at 2019-09-18 18:05:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.573 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.573 ms
Loss rate: 0.51%
```

Run 2: Report of SCReAM — Data Link

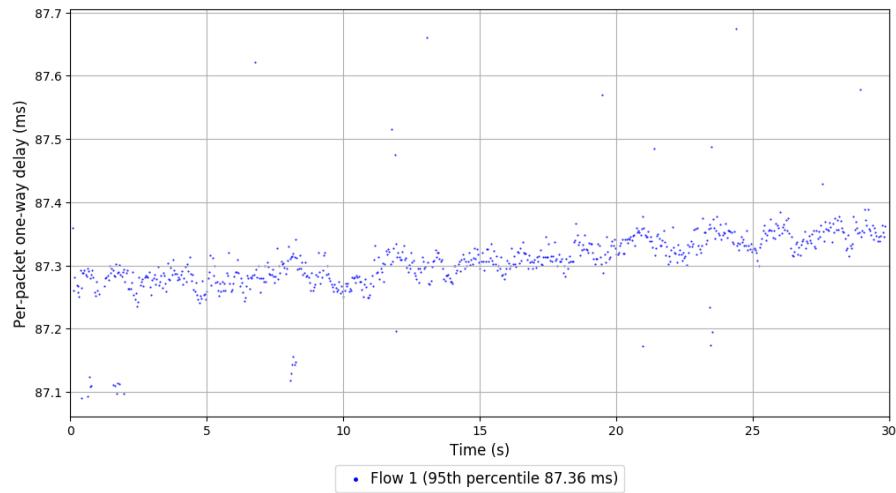
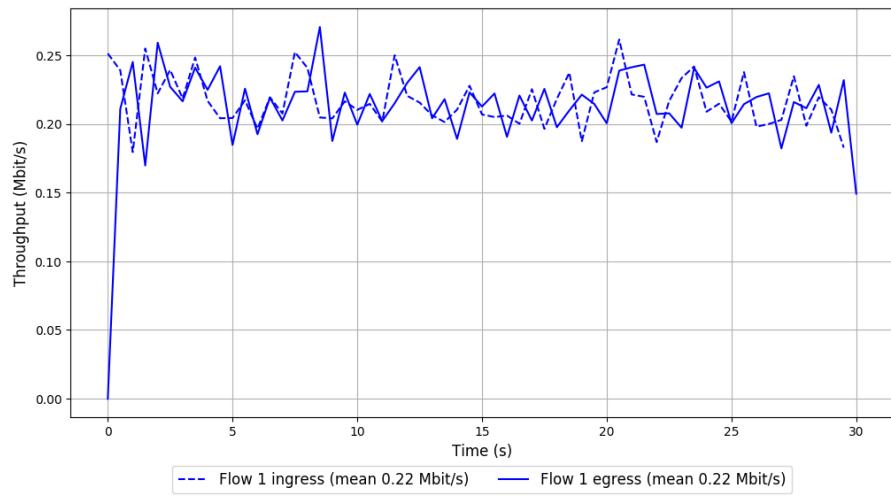


Run 3: Statistics of SCReAM

```
Start at: 2019-09-18 16:43:39
End at: 2019-09-18 16:44:09
Local clock offset: 3.705 ms
Remote clock offset: 54.976 ms

# Below is generated by plot.py at 2019-09-18 18:05:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.363 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.363 ms
Loss rate: 0.51%
```

Run 3: Report of SCReAM — Data Link

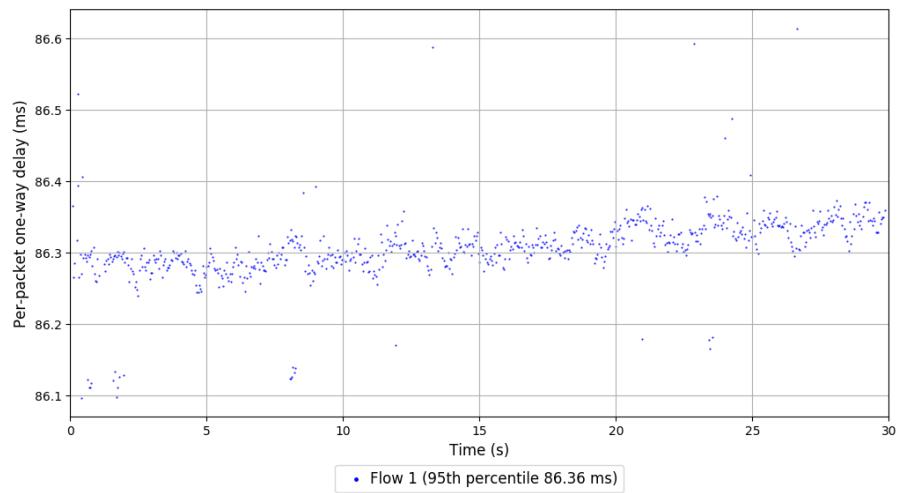
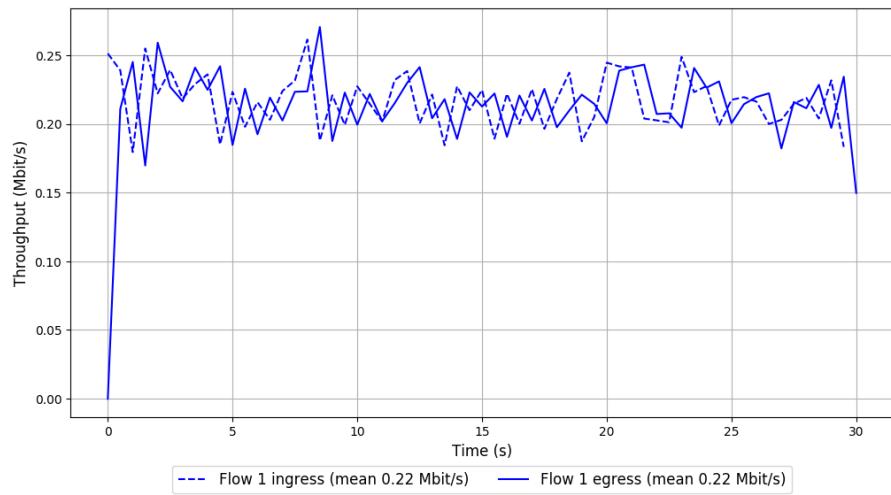


Run 4: Statistics of SCReAM

```
Start at: 2019-09-18 17:12:04
End at: 2019-09-18 17:12:34
Local clock offset: 3.295 ms
Remote clock offset: 60.224 ms

# Below is generated by plot.py at 2019-09-18 18:05:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.358 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.358 ms
Loss rate: 0.51%
```

Run 4: Report of SCReAM — Data Link

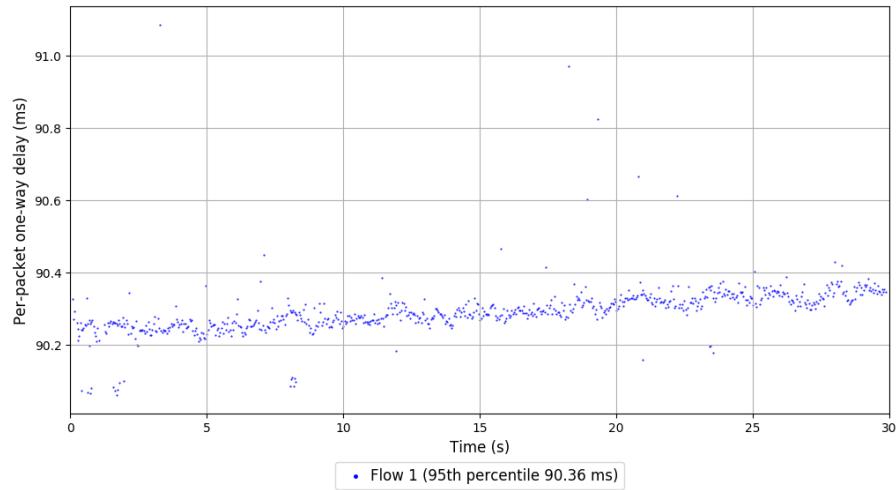
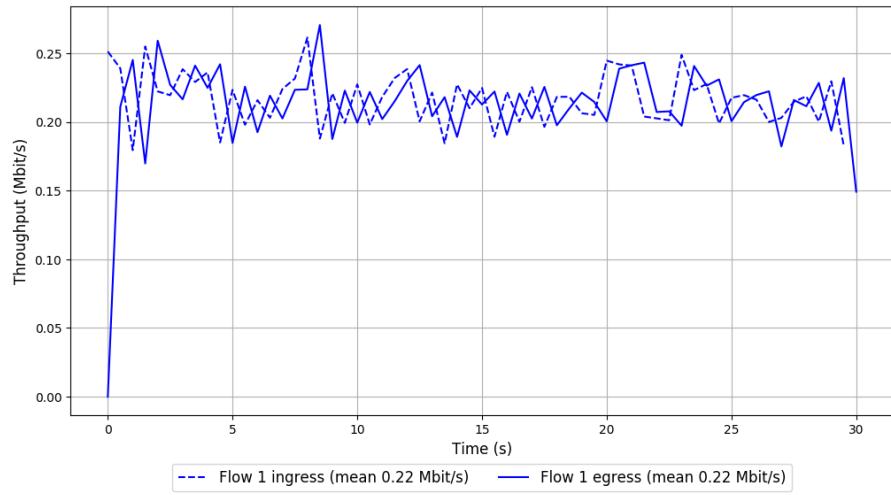


Run 5: Statistics of SCReAM

```
Start at: 2019-09-18 17:40:32
End at: 2019-09-18 17:41:02
Local clock offset: 2.845 ms
Remote clock offset: 62.398 ms

# Below is generated by plot.py at 2019-09-18 18:05:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.363 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.363 ms
Loss rate: 0.51%
```

Run 5: Report of SCReAM — Data Link

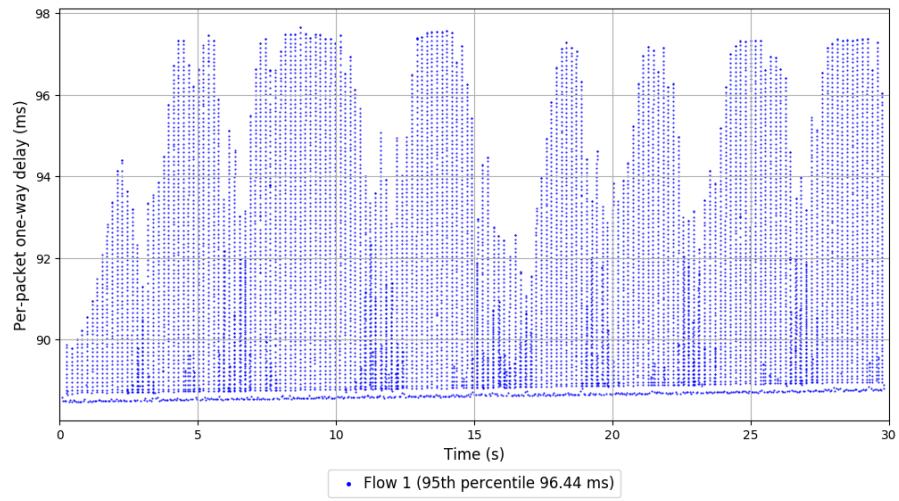
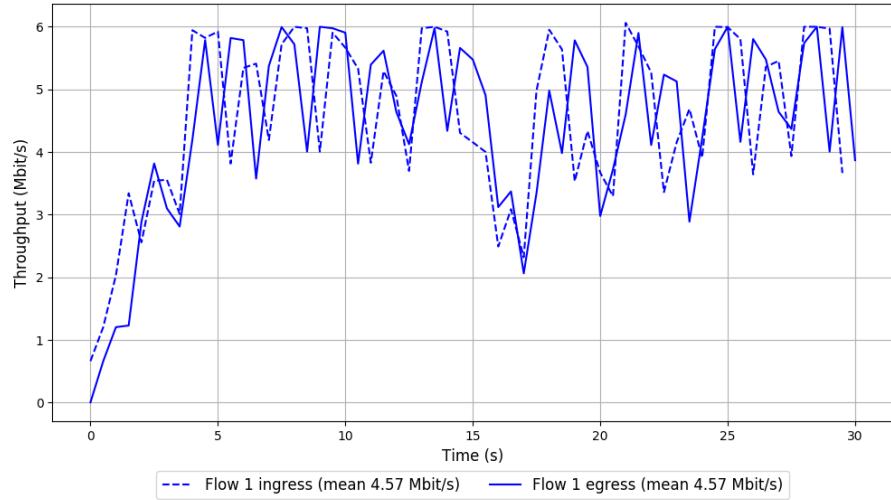


Run 1: Statistics of Sprout

```
Start at: 2019-09-18 15:42:02
End at: 2019-09-18 15:42:32
Local clock offset: -3.12 ms
Remote clock offset: 40.125 ms

# Below is generated by plot.py at 2019-09-18 18:05:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 96.436 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 96.436 ms
Loss rate: 0.65%
```

Run 1: Report of Sprout — Data Link

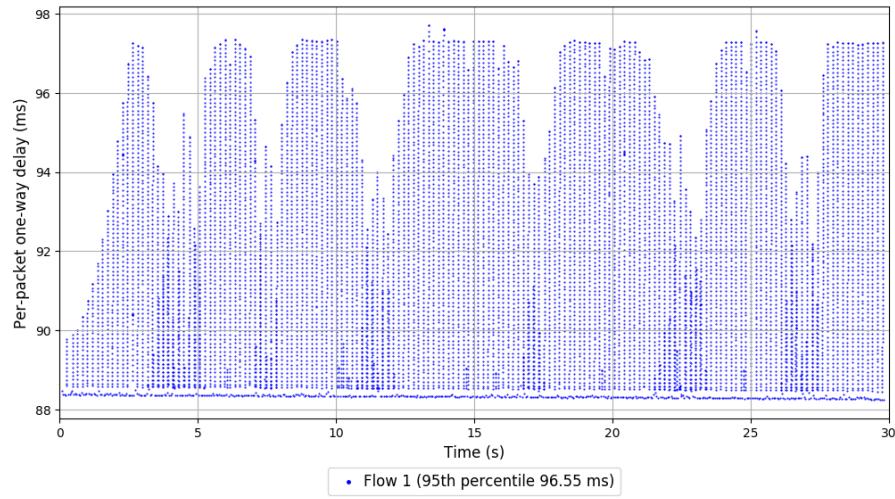
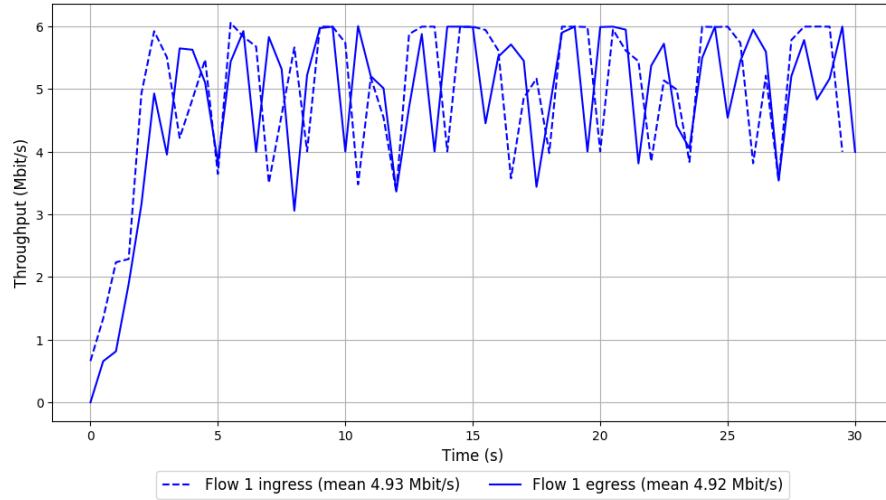


Run 2: Statistics of Sprout

```
Start at: 2019-09-18 16:10:30
End at: 2019-09-18 16:11:00
Local clock offset: 0.842 ms
Remote clock offset: 46.536 ms

# Below is generated by plot.py at 2019-09-18 18:05:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 96.549 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 96.549 ms
Loss rate: 0.68%
```

Run 2: Report of Sprout — Data Link

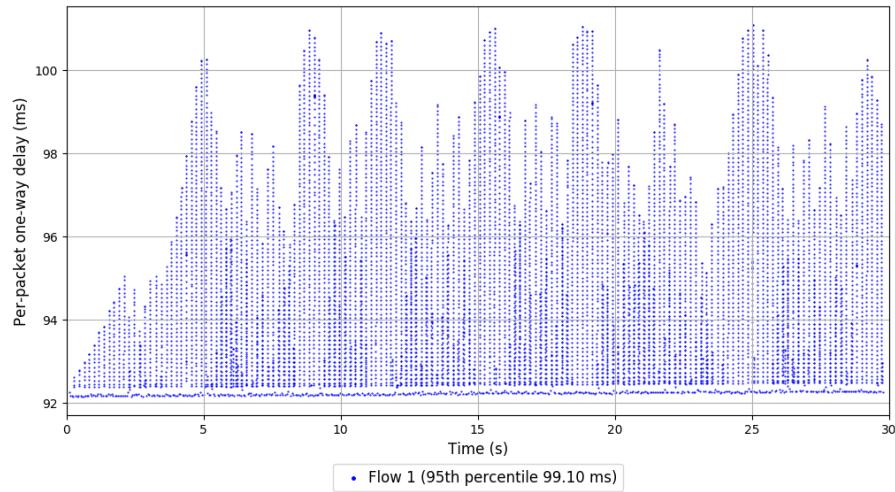
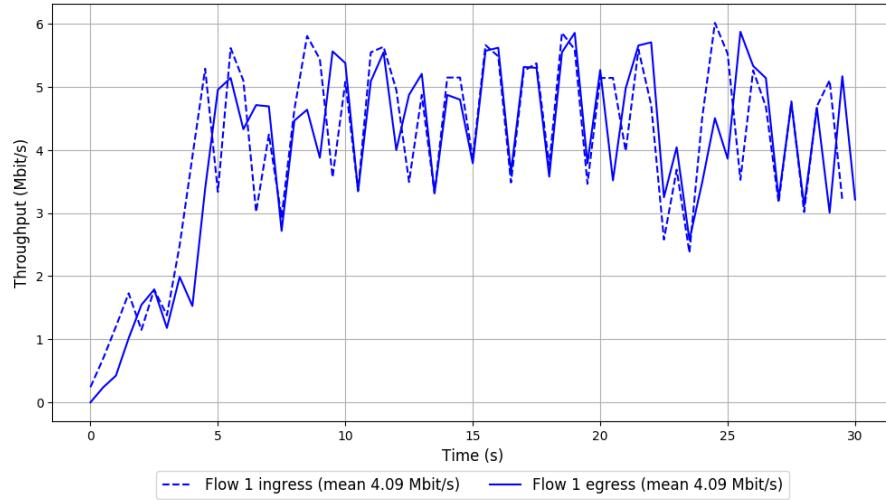


Run 3: Statistics of Sprout

```
Start at: 2019-09-18 16:38:58
End at: 2019-09-18 16:39:28
Local clock offset: 4.725 ms
Remote clock offset: 52.7 ms

# Below is generated by plot.py at 2019-09-18 18:05:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 99.097 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 99.097 ms
Loss rate: 0.66%
```

Run 3: Report of Sprout — Data Link

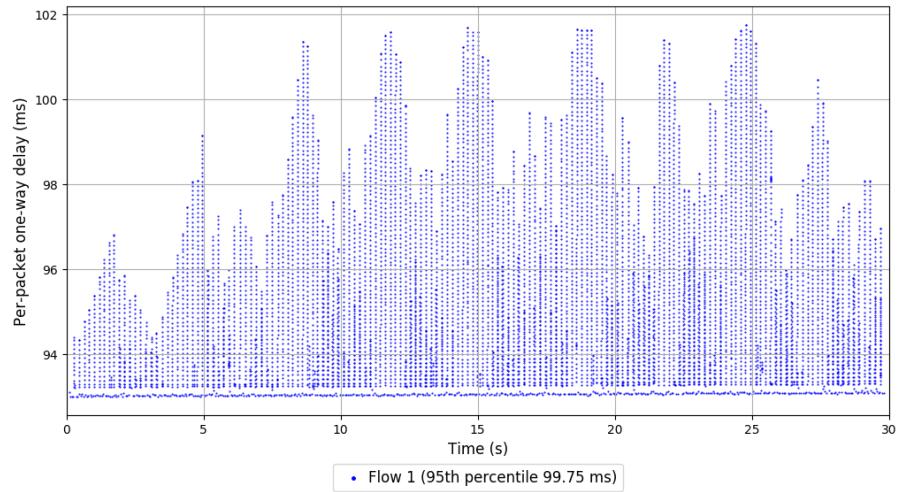
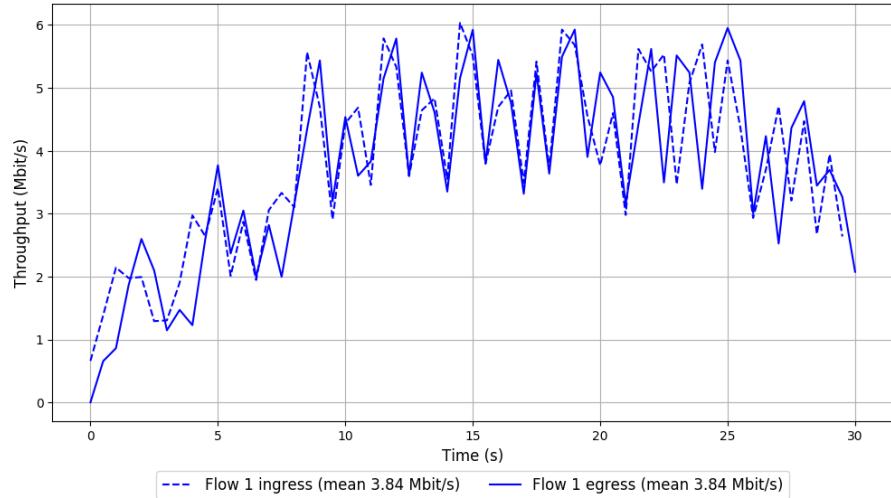


Run 4: Statistics of Sprout

```
Start at: 2019-09-18 17:07:24
End at: 2019-09-18 17:07:54
Local clock offset: 4.119 ms
Remote clock offset: 57.354 ms

# Below is generated by plot.py at 2019-09-18 18:05:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 99.754 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 99.754 ms
Loss rate: 0.54%
```

Run 4: Report of Sprout — Data Link

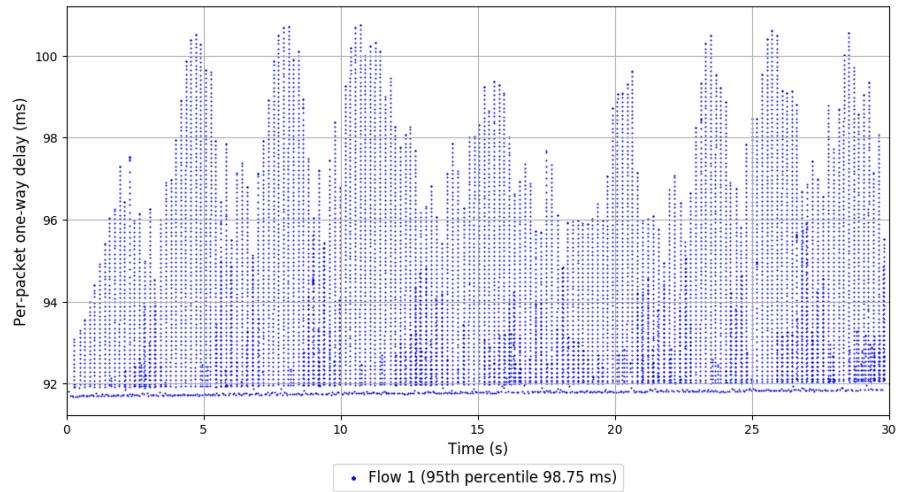
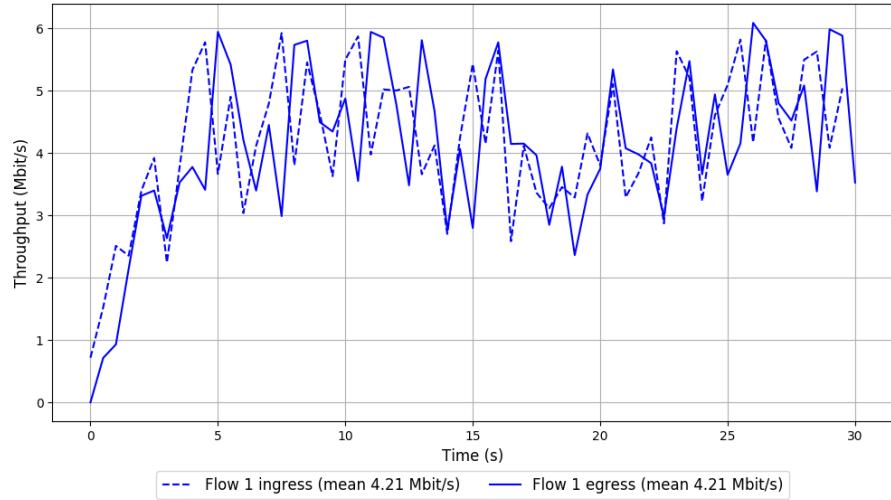


Run 5: Statistics of Sprout

```
Start at: 2019-09-18 17:35:50
End at: 2019-09-18 17:36:20
Local clock offset: 2.522 ms
Remote clock offset: 63.021 ms

# Below is generated by plot.py at 2019-09-18 18:05:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 98.755 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 98.755 ms
Loss rate: 0.60%
```

Run 5: Report of Sprout — Data Link

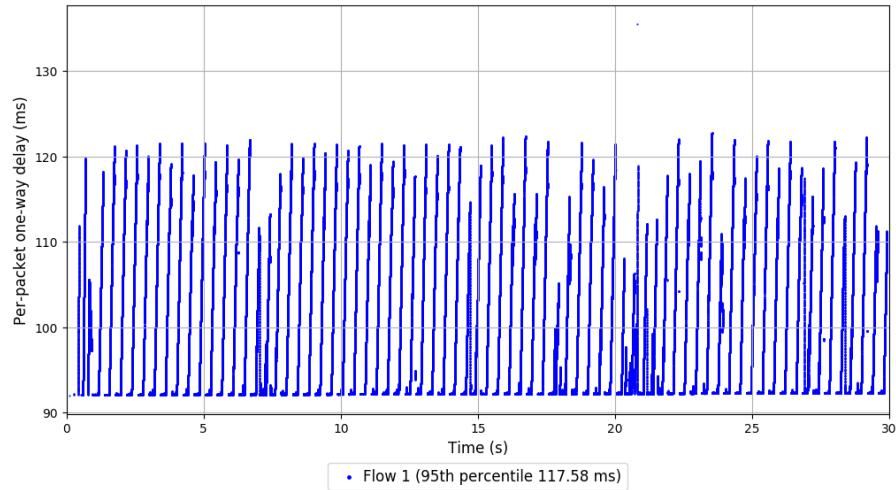
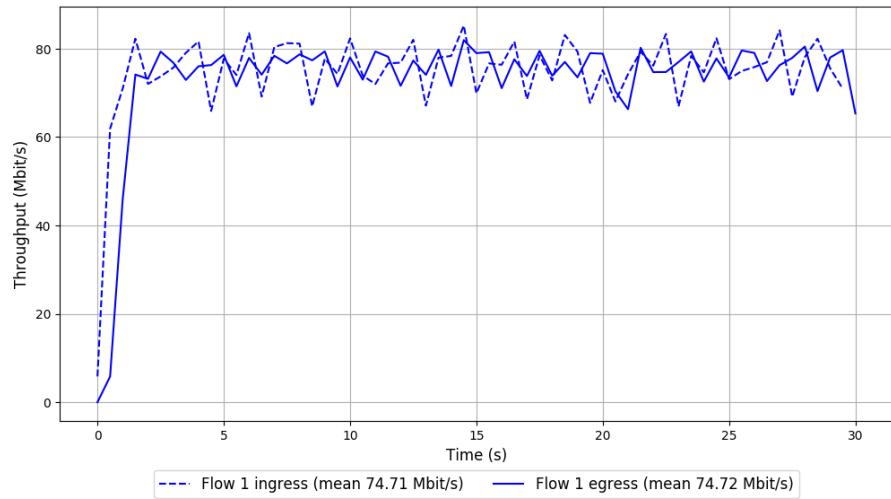


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-09-18 15:47:51
End at: 2019-09-18 15:48:21
Local clock offset: -4.05 ms
Remote clock offset: 41.907 ms

# Below is generated by plot.py at 2019-09-18 18:07:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.72 Mbit/s
95th percentile per-packet one-way delay: 117.578 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 74.72 Mbit/s
95th percentile per-packet one-way delay: 117.578 ms
Loss rate: 0.53%
```

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

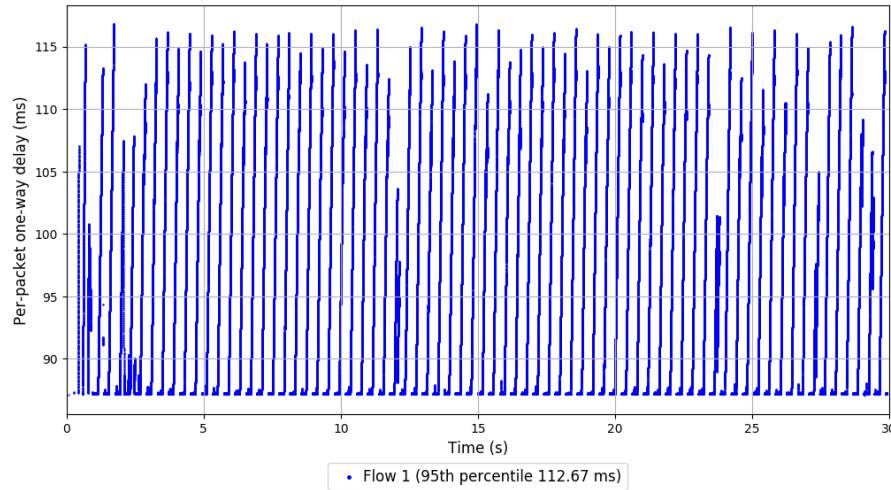
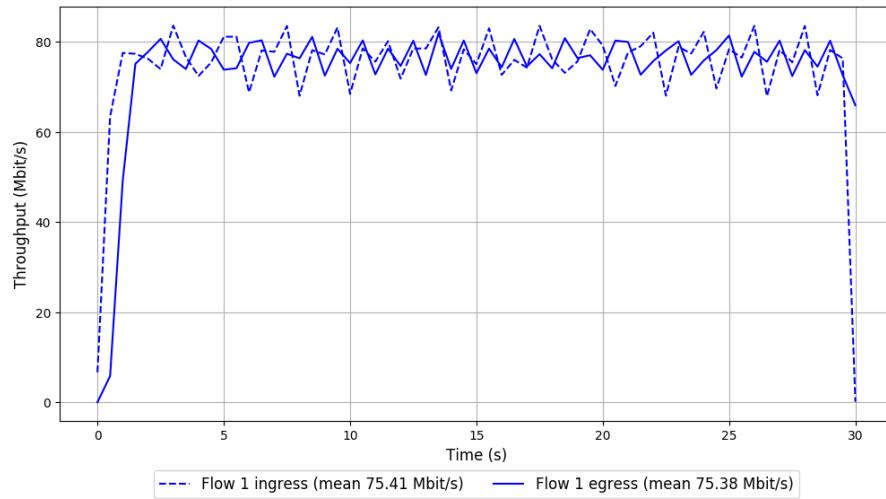


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-09-18 16:16:19
End at: 2019-09-18 16:16:49
Local clock offset: 2.783 ms
Remote clock offset: 49.709 ms

# Below is generated by plot.py at 2019-09-18 18:07:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.38 Mbit/s
95th percentile per-packet one-way delay: 112.673 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 75.38 Mbit/s
95th percentile per-packet one-way delay: 112.673 ms
Loss rate: 0.58%
```

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

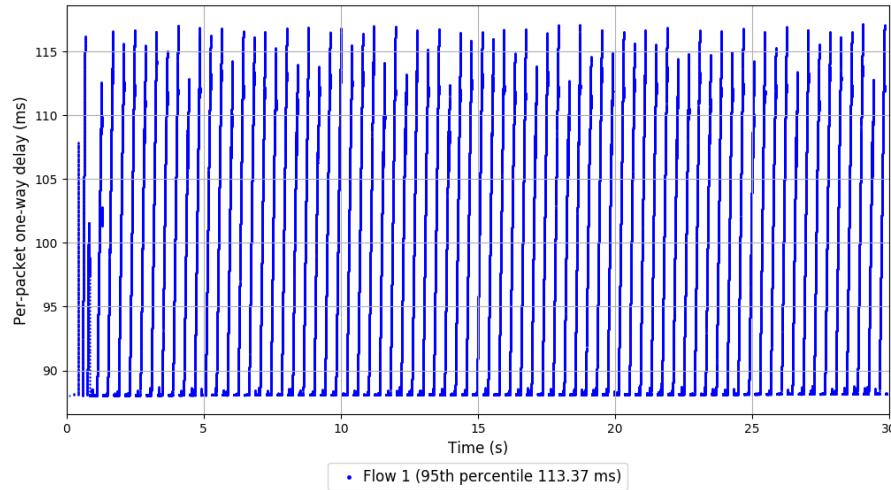
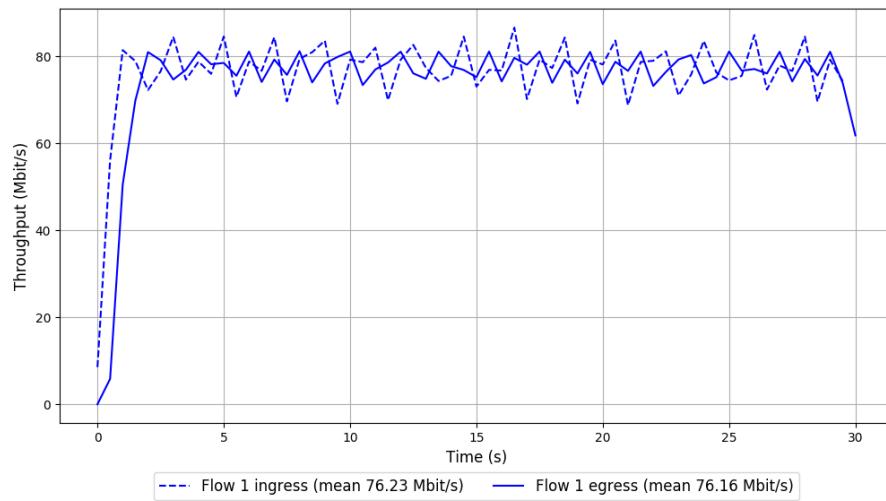


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-09-18 16:44:46
End at: 2019-09-18 16:45:16
Local clock offset: 3.686 ms
Remote clock offset: 53.971 ms

# Below is generated by plot.py at 2019-09-18 18:07:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.16 Mbit/s
95th percentile per-packet one-way delay: 113.370 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 76.16 Mbit/s
95th percentile per-packet one-way delay: 113.370 ms
Loss rate: 0.63%
```

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

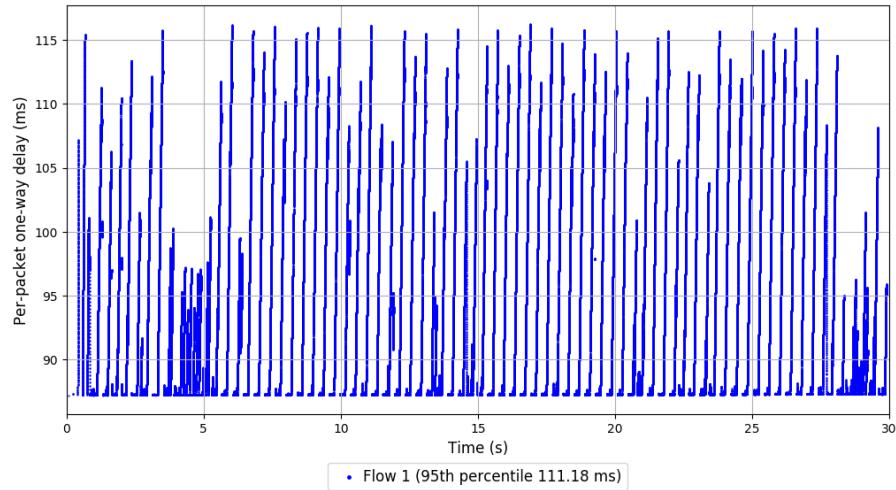
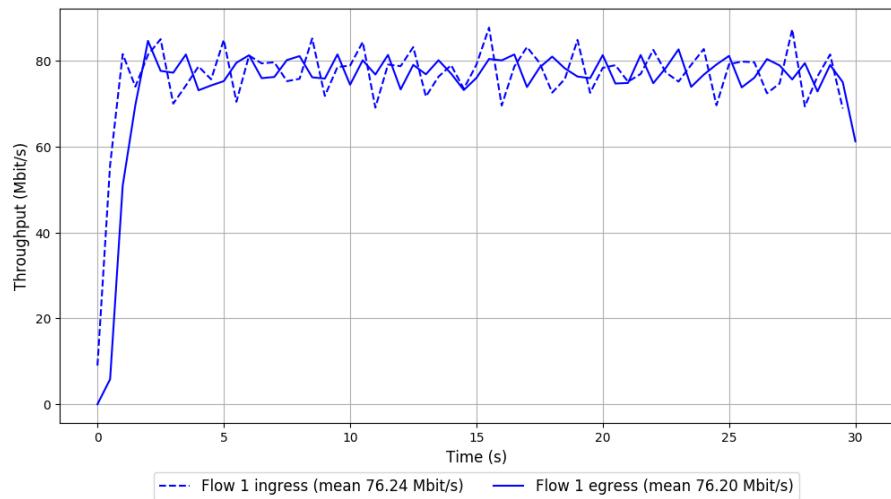


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-09-18 17:13:11
End at: 2019-09-18 17:13:41
Local clock offset: 3.265 ms
Remote clock offset: 59.338 ms

# Below is generated by plot.py at 2019-09-18 18:07:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.20 Mbit/s
95th percentile per-packet one-way delay: 111.182 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 76.20 Mbit/s
95th percentile per-packet one-way delay: 111.182 ms
Loss rate: 0.58%
```

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

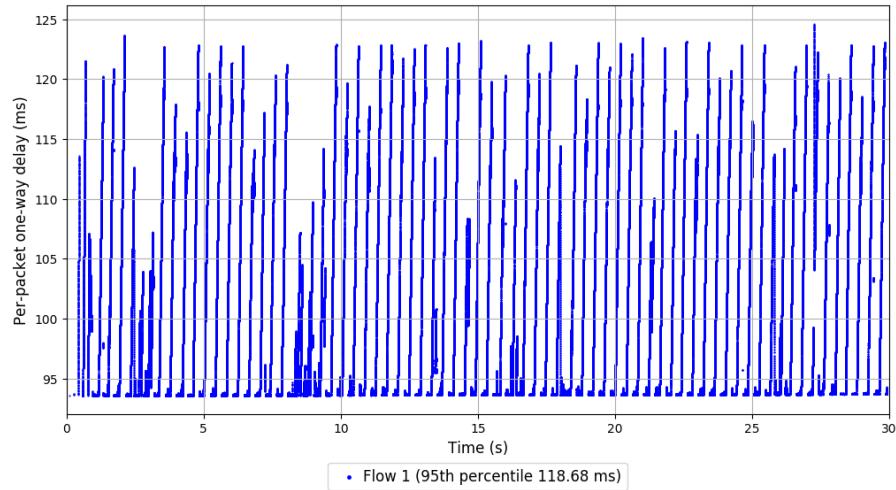
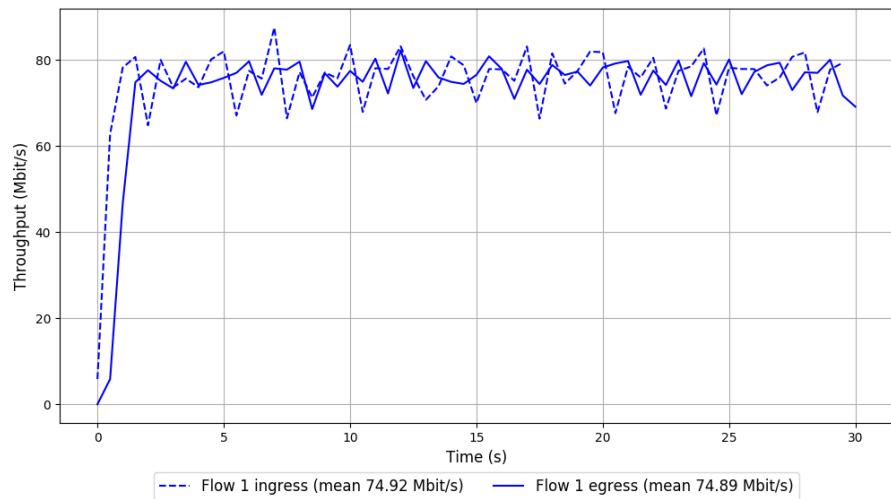


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-09-18 17:41:39
End at: 2019-09-18 17:42:09
Local clock offset: 2.021 ms
Remote clock offset: 62.411 ms

# Below is generated by plot.py at 2019-09-18 18:07:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.89 Mbit/s
95th percentile per-packet one-way delay: 118.676 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 74.89 Mbit/s
95th percentile per-packet one-way delay: 118.676 ms
Loss rate: 0.59%
```

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

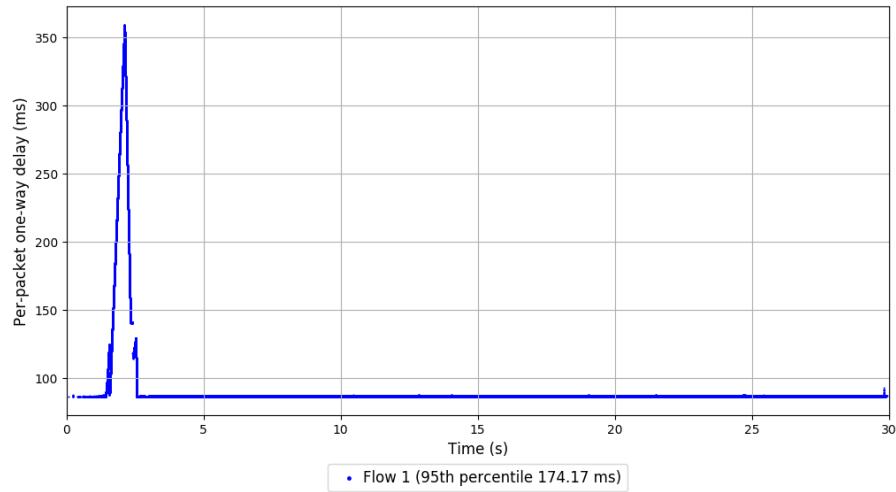
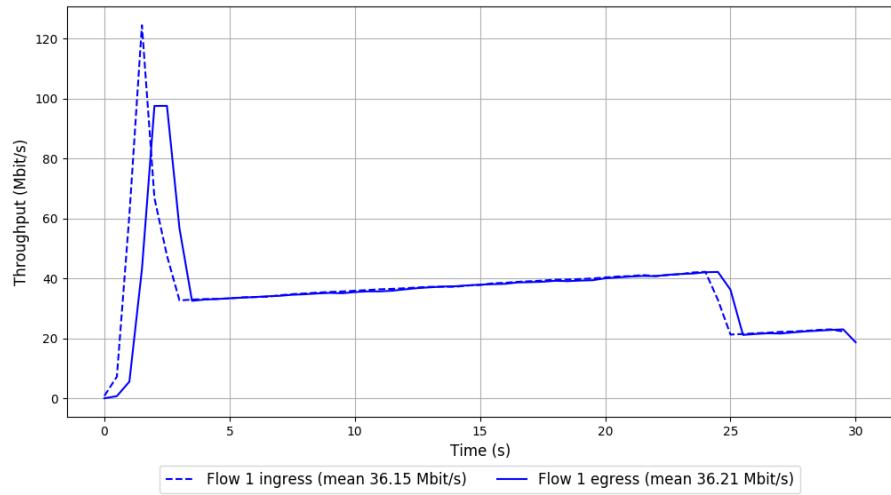


Run 1: Statistics of TCP Vegas

```
Start at: 2019-09-18 15:55:04
End at: 2019-09-18 15:55:34
Local clock offset: -5.431 ms
Remote clock offset: 45.568 ms

# Below is generated by plot.py at 2019-09-18 18:07:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.21 Mbit/s
95th percentile per-packet one-way delay: 174.169 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 36.21 Mbit/s
95th percentile per-packet one-way delay: 174.169 ms
Loss rate: 0.38%
```

Run 1: Report of TCP Vegas — Data Link

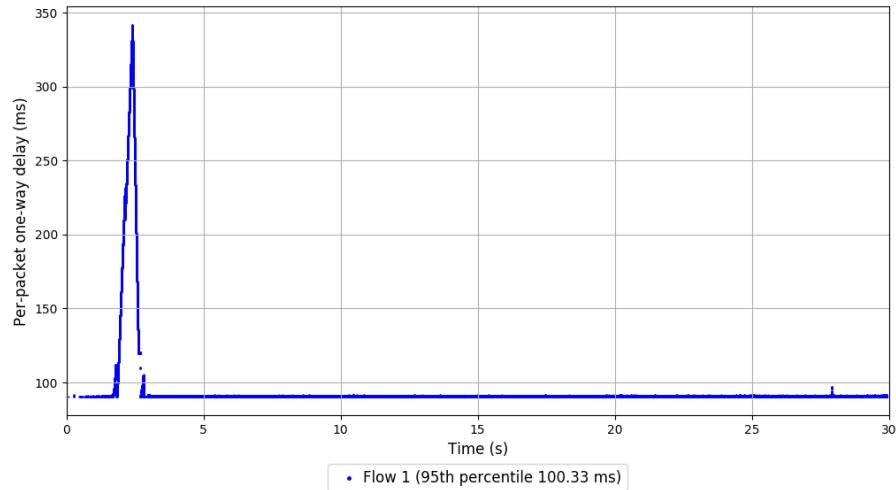
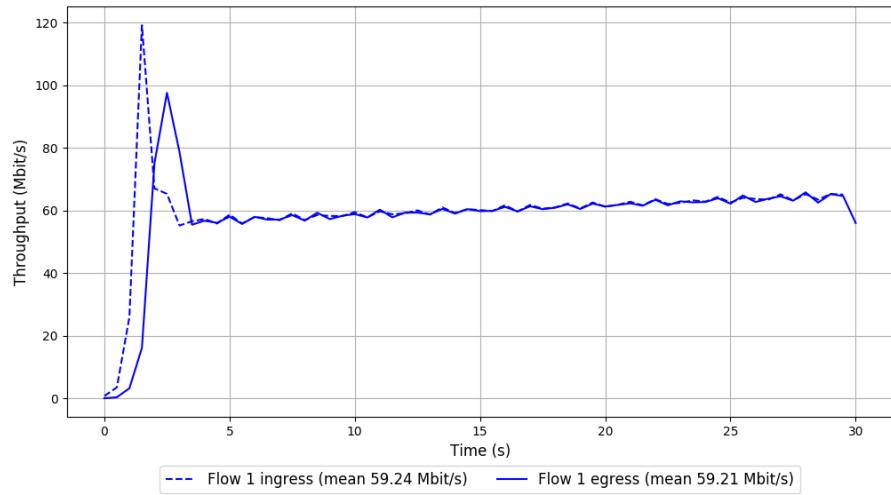


Run 2: Statistics of TCP Vegas

```
Start at: 2019-09-18 16:23:31
End at: 2019-09-18 16:24:01
Local clock offset: 4.968 ms
Remote clock offset: 52.431 ms

# Below is generated by plot.py at 2019-09-18 18:07:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.21 Mbit/s
95th percentile per-packet one-way delay: 100.330 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 59.21 Mbit/s
95th percentile per-packet one-way delay: 100.330 ms
Loss rate: 0.60%
```

Run 2: Report of TCP Vegas — Data Link

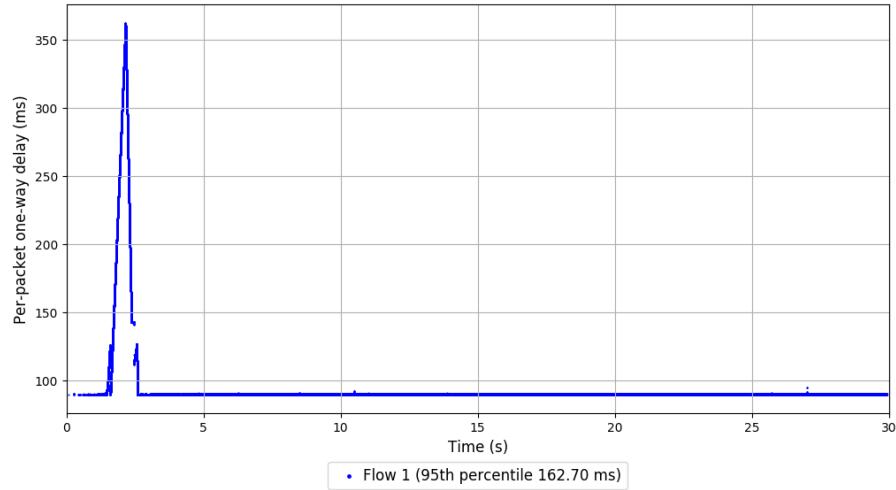
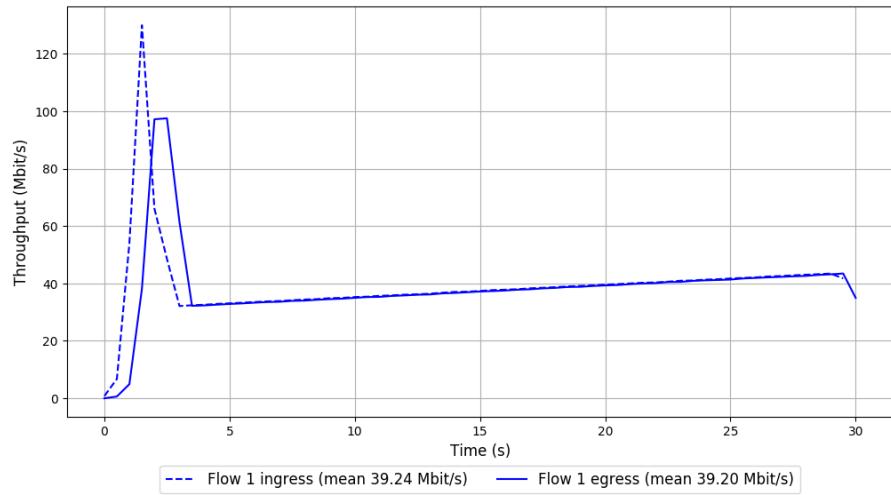


Run 3: Statistics of TCP Vegas

```
Start at: 2019-09-18 16:51:59
End at: 2019-09-18 16:52:29
Local clock offset: 4.399 ms
Remote clock offset: 57.627 ms

# Below is generated by plot.py at 2019-09-18 18:07:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.20 Mbit/s
95th percentile per-packet one-way delay: 162.700 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 39.20 Mbit/s
95th percentile per-packet one-way delay: 162.700 ms
Loss rate: 0.64%
```

Run 3: Report of TCP Vegas — Data Link

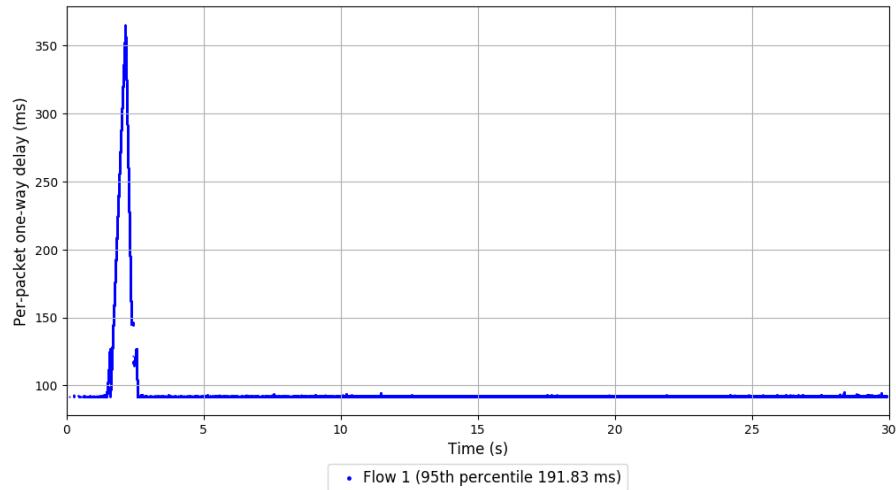
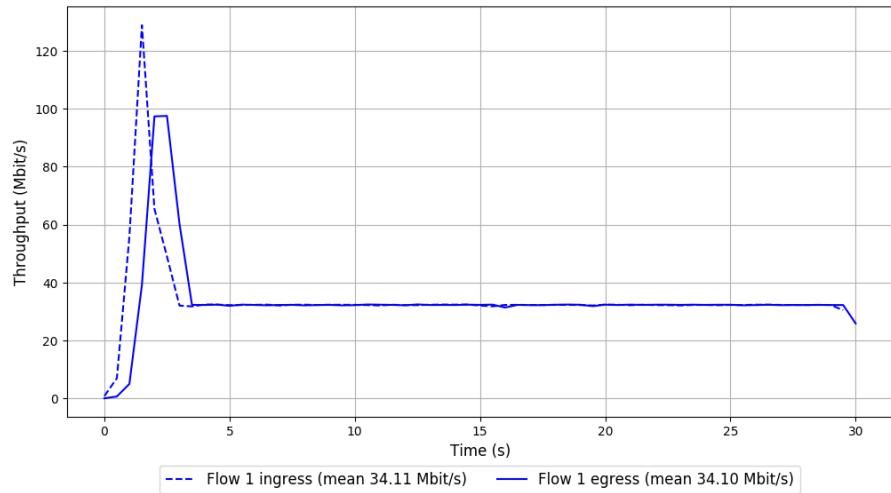


Run 4: Statistics of TCP Vegas

```
Start at: 2019-09-18 17:20:24
End at: 2019-09-18 17:20:54
Local clock offset: 3.222 ms
Remote clock offset: 59.979 ms

# Below is generated by plot.py at 2019-09-18 18:07:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.10 Mbit/s
95th percentile per-packet one-way delay: 191.827 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 34.10 Mbit/s
95th percentile per-packet one-way delay: 191.827 ms
Loss rate: 0.55%
```

Run 4: Report of TCP Vegas — Data Link

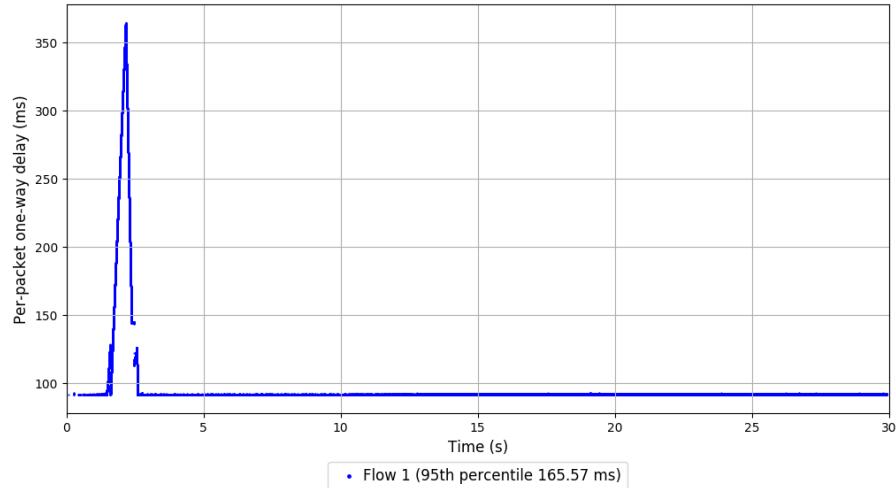
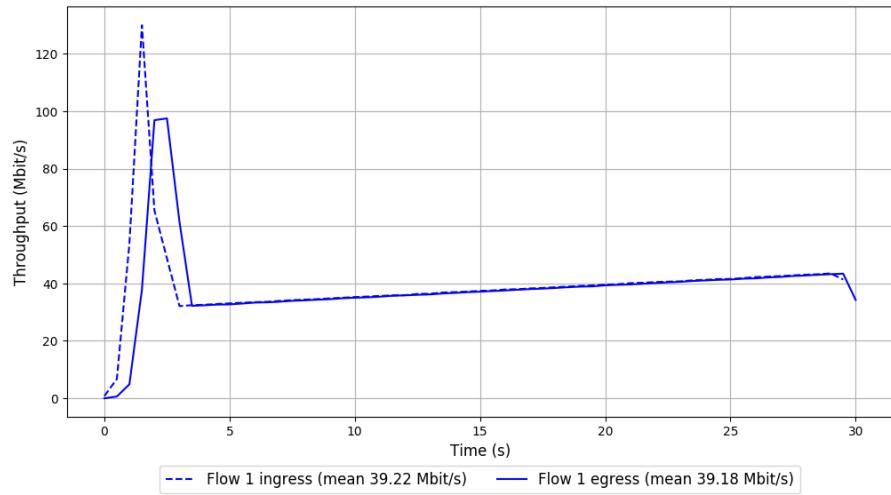


Run 5: Statistics of TCP Vegas

```
Start at: 2019-09-18 17:48:52
End at: 2019-09-18 17:49:22
Local clock offset: 1.589 ms
Remote clock offset: 65.339 ms

# Below is generated by plot.py at 2019-09-18 18:07:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.18 Mbit/s
95th percentile per-packet one-way delay: 165.575 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 39.18 Mbit/s
95th percentile per-packet one-way delay: 165.575 ms
Loss rate: 0.64%
```

Run 5: Report of TCP Vegas — Data Link

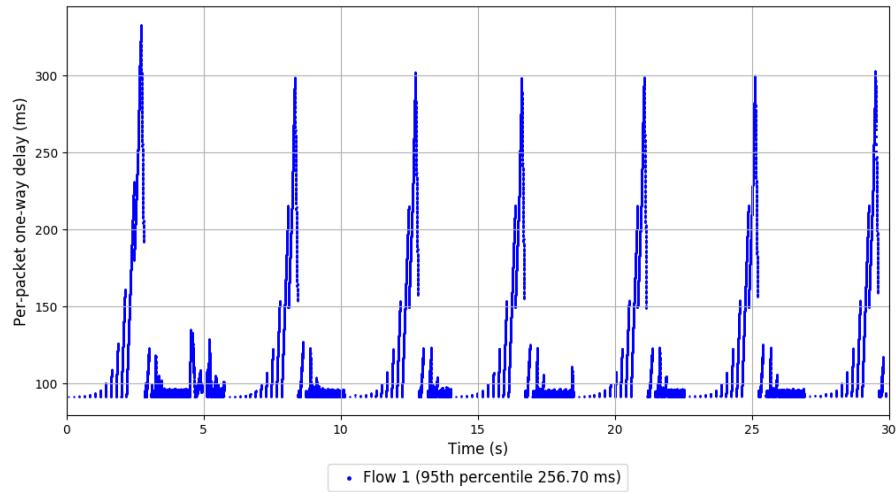
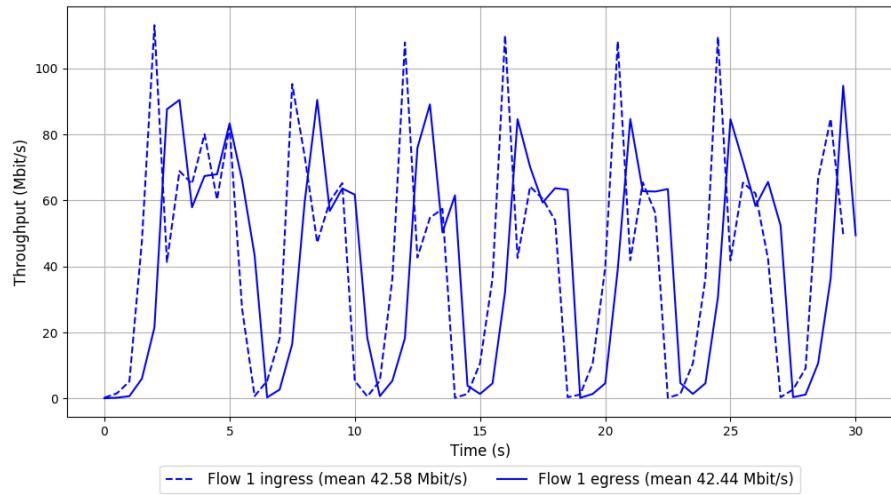


Run 1: Statistics of Verus

```
Start at: 2019-09-18 15:37:18
End at: 2019-09-18 15:37:48
Local clock offset: -0.434 ms
Remote clock offset: 40.164 ms

# Below is generated by plot.py at 2019-09-18 18:07:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.44 Mbit/s
95th percentile per-packet one-way delay: 256.703 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 42.44 Mbit/s
95th percentile per-packet one-way delay: 256.703 ms
Loss rate: 0.87%
```

Run 1: Report of Verus — Data Link

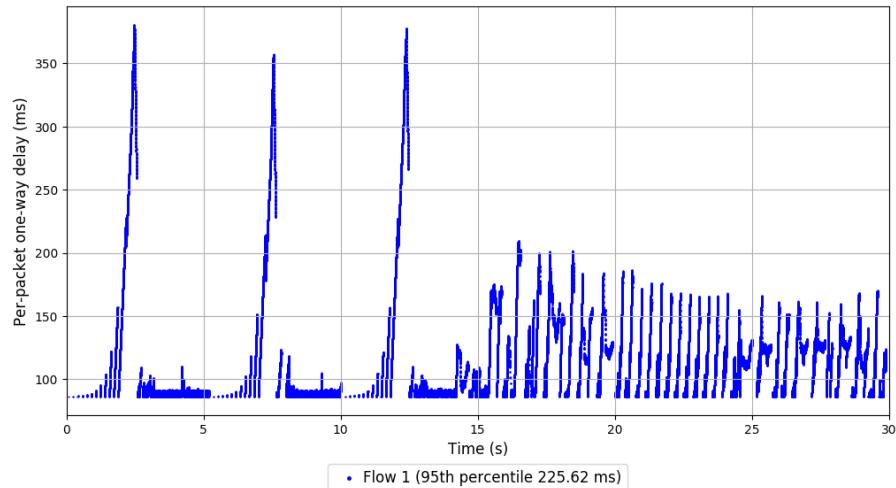
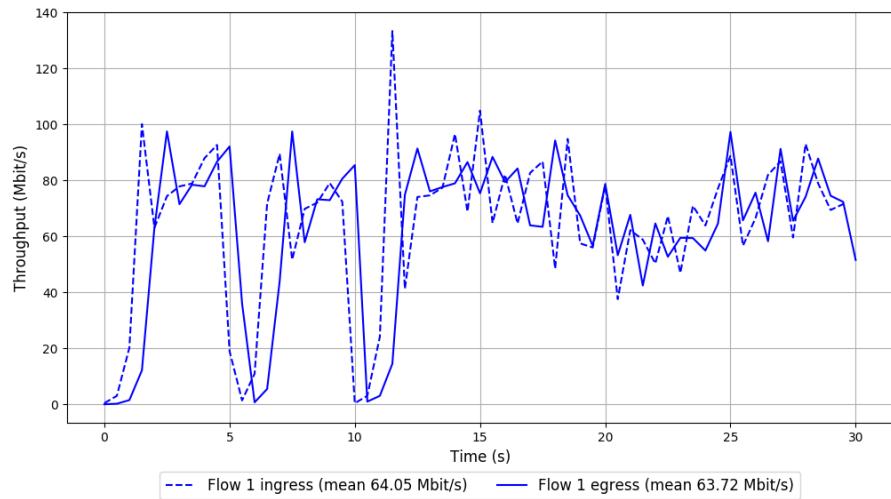


Run 2: Statistics of Verus

```
Start at: 2019-09-18 16:05:44
End at: 2019-09-18 16:06:14
Local clock offset: -1.948 ms
Remote clock offset: 48.035 ms

# Below is generated by plot.py at 2019-09-18 18:07:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.72 Mbit/s
95th percentile per-packet one-way delay: 225.620 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 63.72 Mbit/s
95th percentile per-packet one-way delay: 225.620 ms
Loss rate: 1.05%
```

Run 2: Report of Verus — Data Link

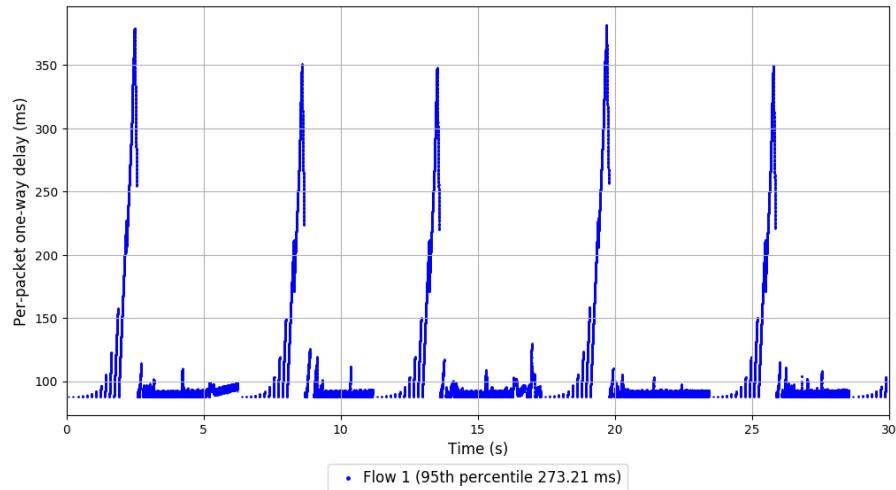
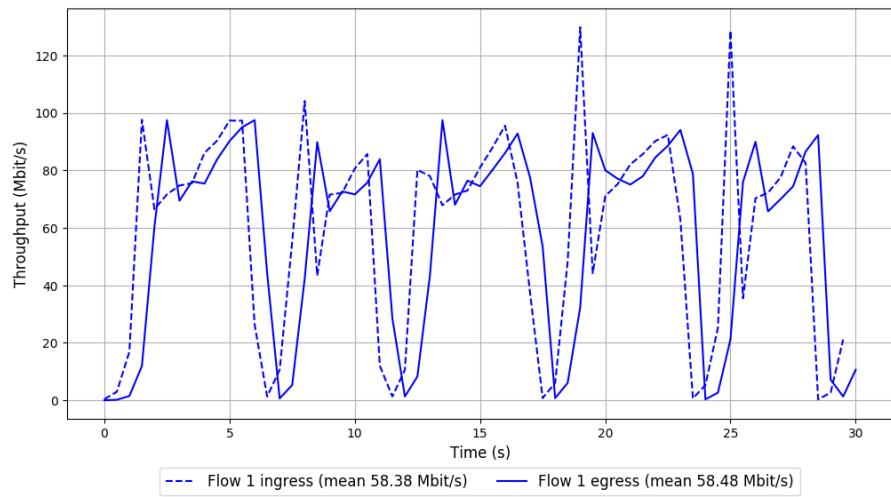


Run 3: Statistics of Verus

```
Start at: 2019-09-18 16:34:13
End at: 2019-09-18 16:34:43
Local clock offset: 5.153 ms
Remote clock offset: 53.208 ms

# Below is generated by plot.py at 2019-09-18 18:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.48 Mbit/s
95th percentile per-packet one-way delay: 273.208 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 58.48 Mbit/s
95th percentile per-packet one-way delay: 273.208 ms
Loss rate: 0.39%
```

Run 3: Report of Verus — Data Link

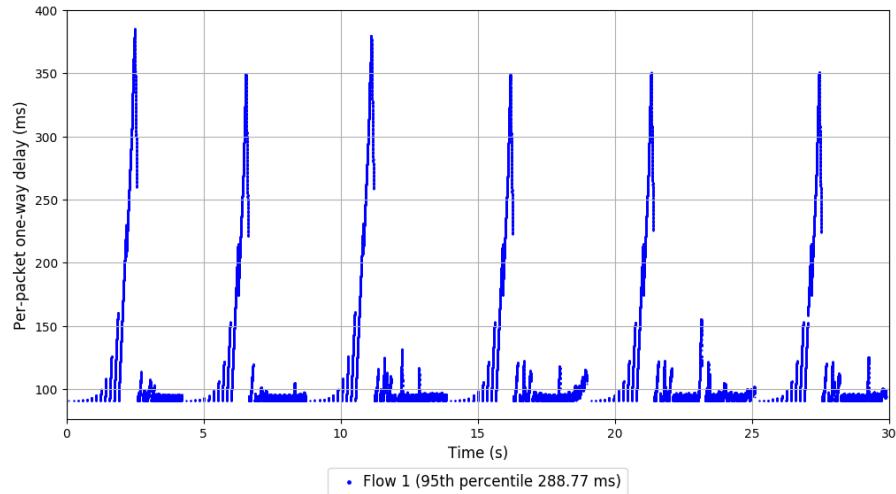
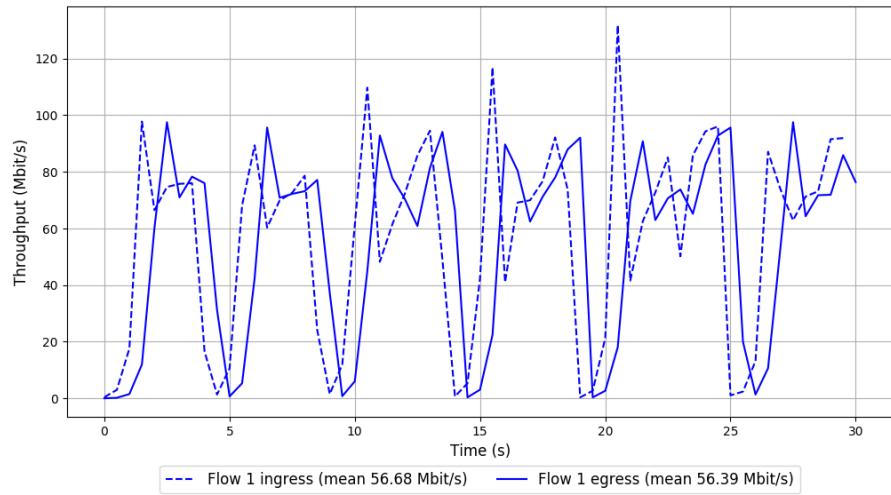


Run 4: Statistics of Verus

```
Start at: 2019-09-18 17:02:39
End at: 2019-09-18 17:03:09
Local clock offset: 3.54 ms
Remote clock offset: 57.695 ms

# Below is generated by plot.py at 2019-09-18 18:07:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.39 Mbit/s
95th percentile per-packet one-way delay: 288.775 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 56.39 Mbit/s
95th percentile per-packet one-way delay: 288.775 ms
Loss rate: 1.04%
```

Run 4: Report of Verus — Data Link

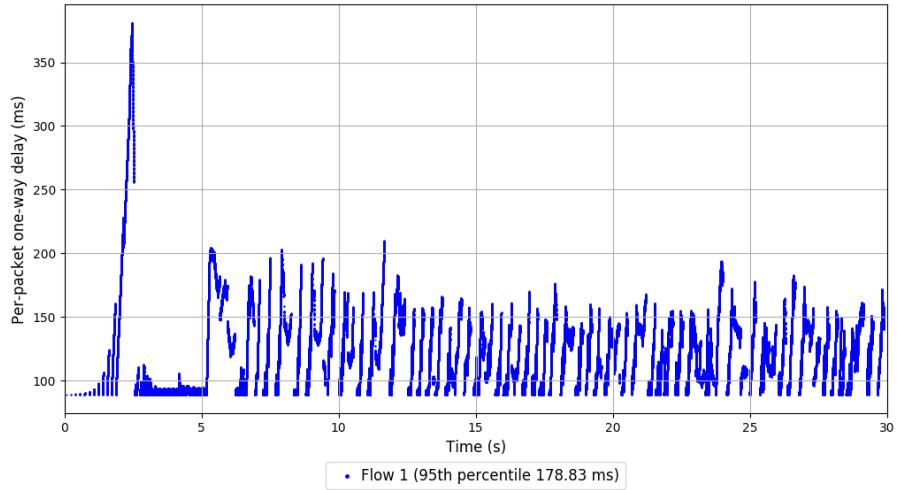
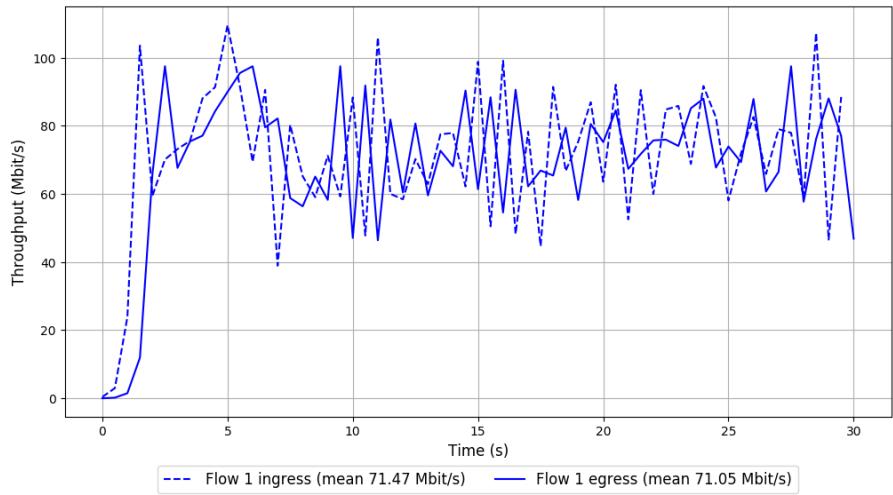


Run 5: Statistics of Verus

```
Start at: 2019-09-18 17:31:05
End at: 2019-09-18 17:31:35
Local clock offset: 3.234 ms
Remote clock offset: 61.156 ms

# Below is generated by plot.py at 2019-09-18 18:07:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.05 Mbit/s
95th percentile per-packet one-way delay: 178.834 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 71.05 Mbit/s
95th percentile per-packet one-way delay: 178.834 ms
Loss rate: 1.11%
```

Run 5: Report of Verus — Data Link

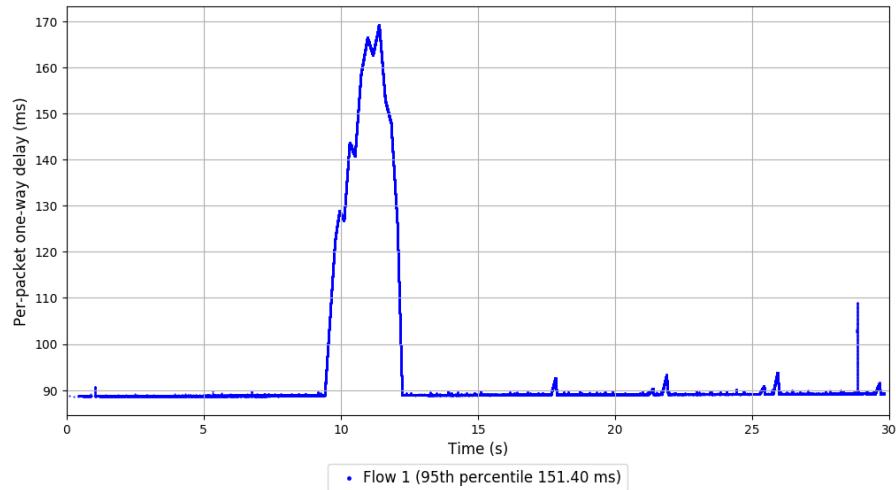
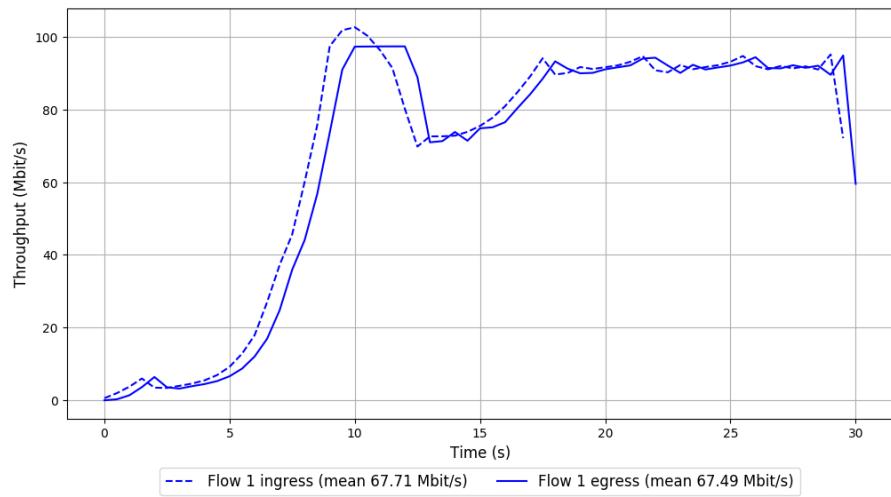


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-09-18 15:32:31
End at: 2019-09-18 15:33:01
Local clock offset: 1.928 ms
Remote clock offset: 37.251 ms

# Below is generated by plot.py at 2019-09-18 18:08:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.49 Mbit/s
95th percentile per-packet one-way delay: 151.395 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 67.49 Mbit/s
95th percentile per-packet one-way delay: 151.395 ms
Loss rate: 0.86%
```

Run 1: Report of PCC-Vivace — Data Link

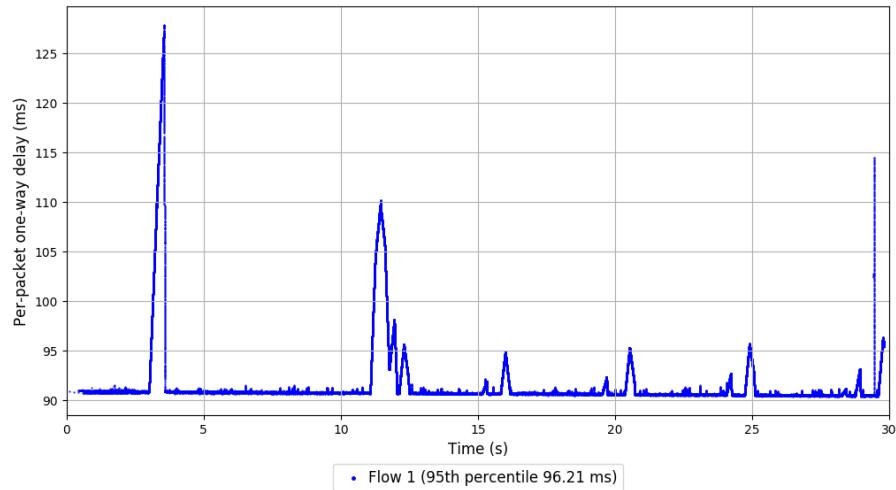
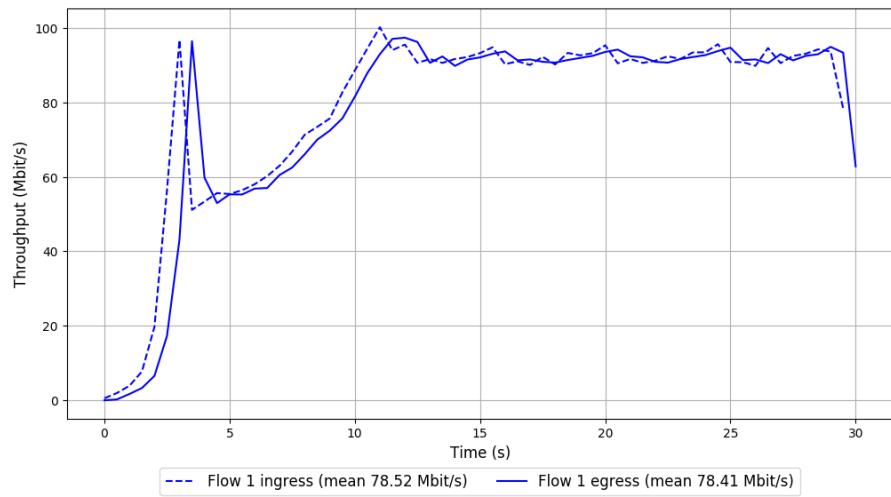


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-09-18 16:00:58
End at: 2019-09-18 16:01:28
Local clock offset: -6.623 ms
Remote clock offset: 45.652 ms

# Below is generated by plot.py at 2019-09-18 18:08:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.41 Mbit/s
95th percentile per-packet one-way delay: 96.209 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 78.41 Mbit/s
95th percentile per-packet one-way delay: 96.209 ms
Loss rate: 0.69%
```

Run 2: Report of PCC-Vivace — Data Link

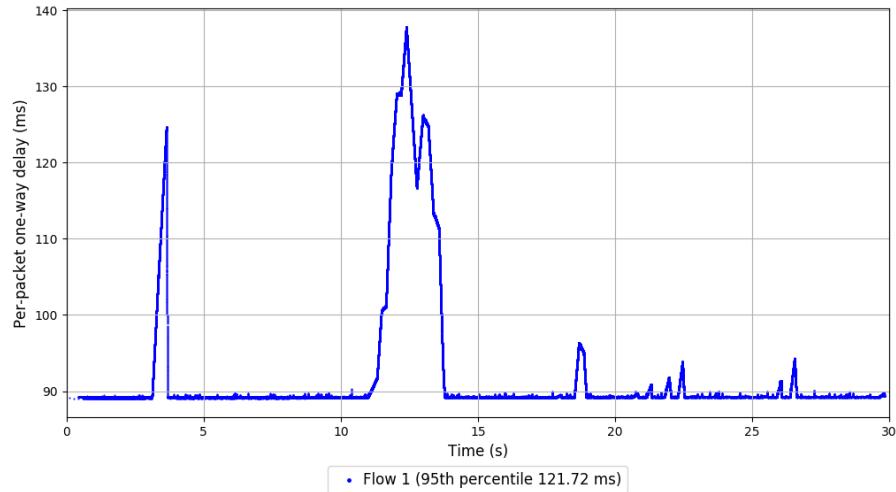
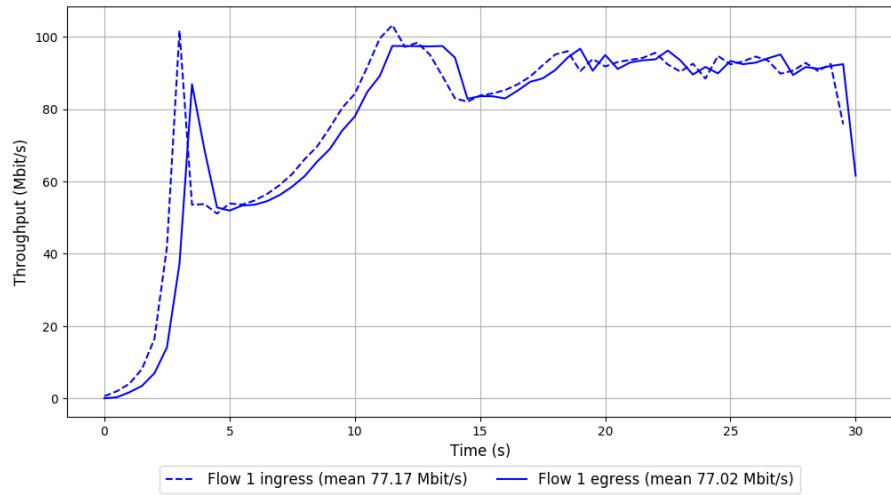


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-09-18 16:29:26
End at: 2019-09-18 16:29:56
Local clock offset: 5.589 ms
Remote clock offset: 51.171 ms

# Below is generated by plot.py at 2019-09-18 18:08:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.02 Mbit/s
95th percentile per-packet one-way delay: 121.721 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 77.02 Mbit/s
95th percentile per-packet one-way delay: 121.721 ms
Loss rate: 0.73%
```

Run 3: Report of PCC-Vivace — Data Link

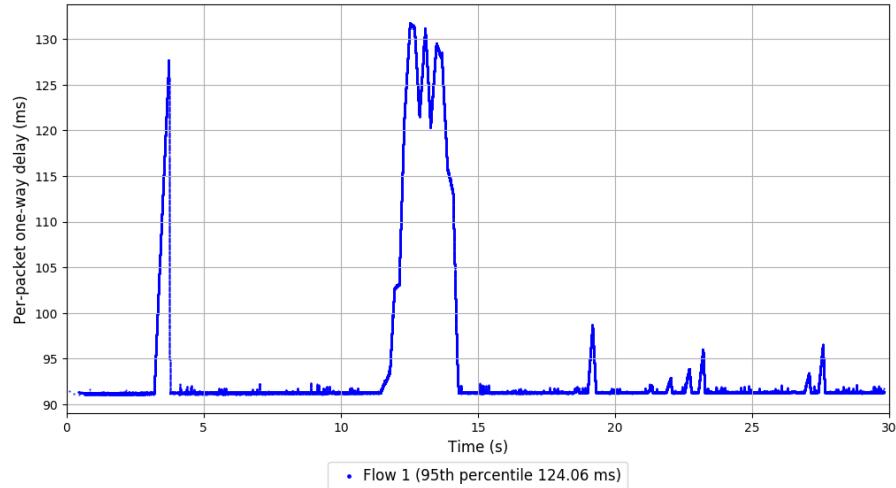
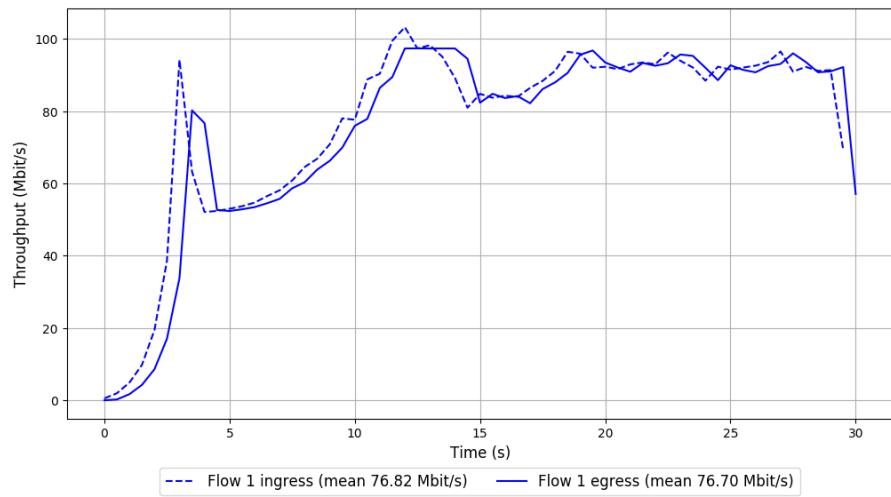


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-09-18 16:57:53
End at: 2019-09-18 16:58:23
Local clock offset: 3.642 ms
Remote clock offset: 56.36 ms

# Below is generated by plot.py at 2019-09-18 18:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.70 Mbit/s
95th percentile per-packet one-way delay: 124.059 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 76.70 Mbit/s
95th percentile per-packet one-way delay: 124.059 ms
Loss rate: 0.71%
```

Run 4: Report of PCC-Vivace — Data Link

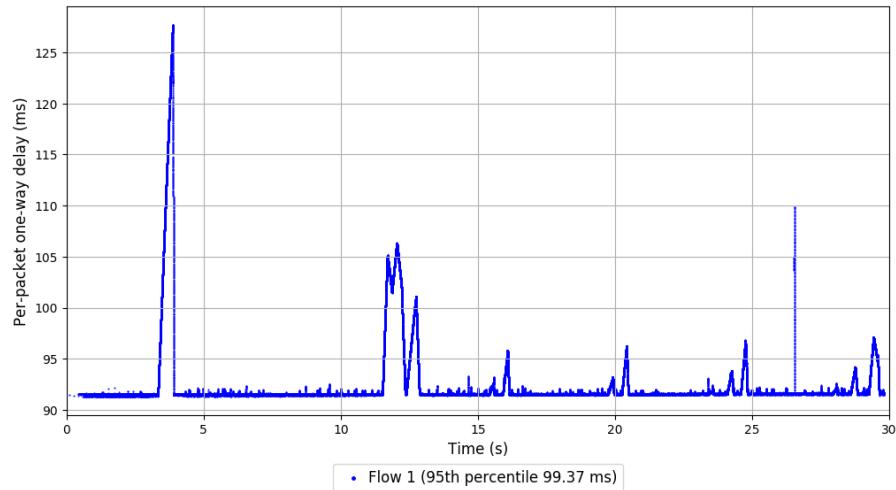
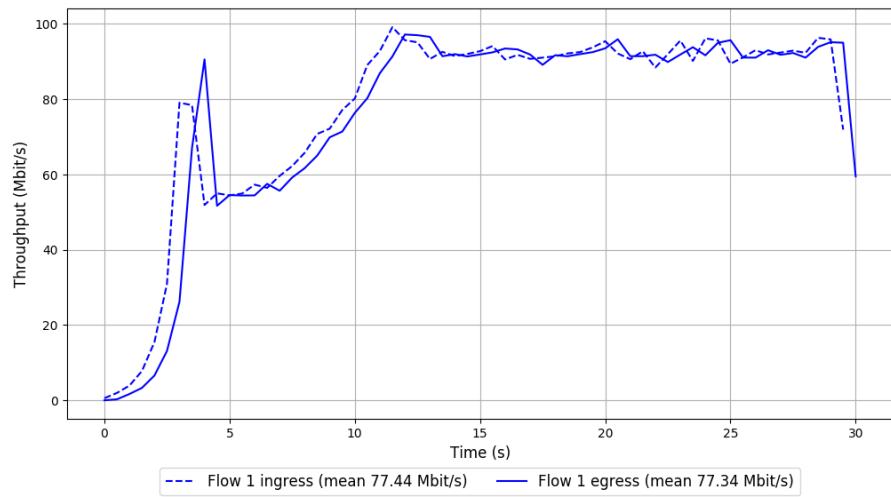


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-09-18 17:26:18
End at: 2019-09-18 17:26:48
Local clock offset: 3.268 ms
Remote clock offset: 61.371 ms

# Below is generated by plot.py at 2019-09-18 18:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.34 Mbit/s
95th percentile per-packet one-way delay: 99.369 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 77.34 Mbit/s
95th percentile per-packet one-way delay: 99.369 ms
Loss rate: 0.68%
```

Run 5: Report of PCC-Vivace — Data Link

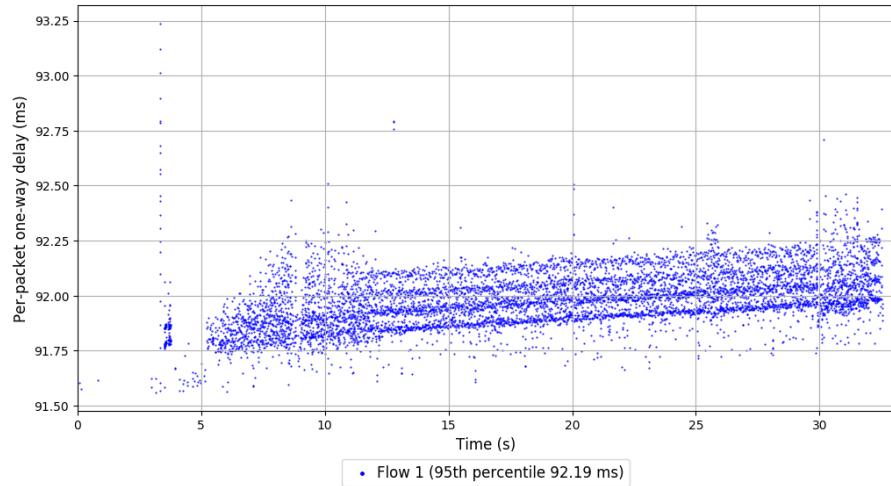
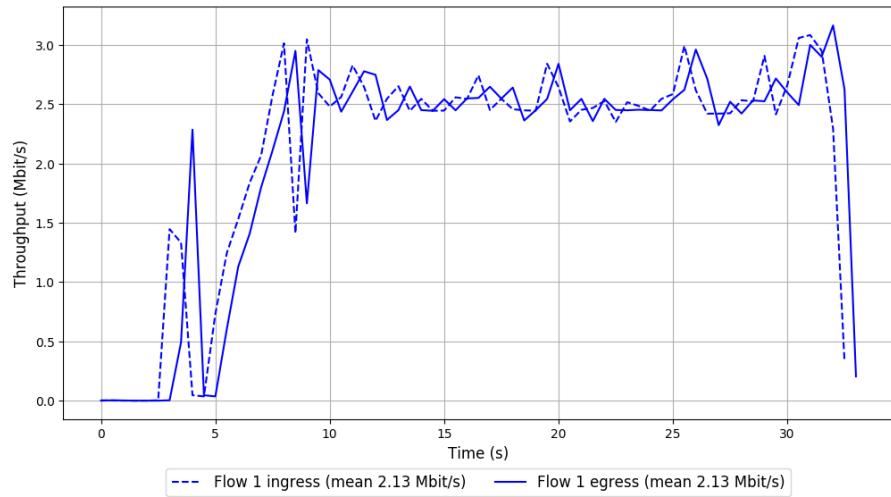


```
Run 1: Statistics of WebRTC media

Start at: 2019-09-18 15:57:24
End at: 2019-09-18 15:57:54
Local clock offset: -5.783 ms
Remote clock offset: 44.858 ms

# Below is generated by plot.py at 2019-09-18 18:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 92.188 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 92.188 ms
Loss rate: 0.28%
```

Run 1: Report of WebRTC media — Data Link

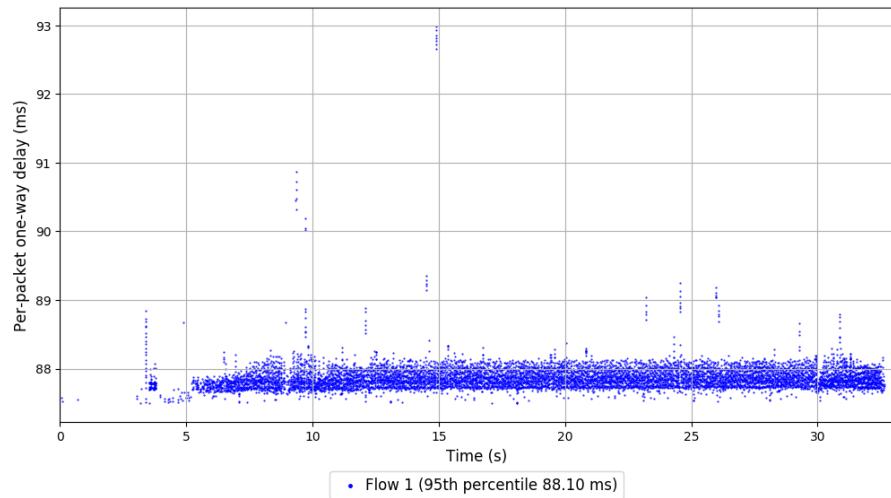
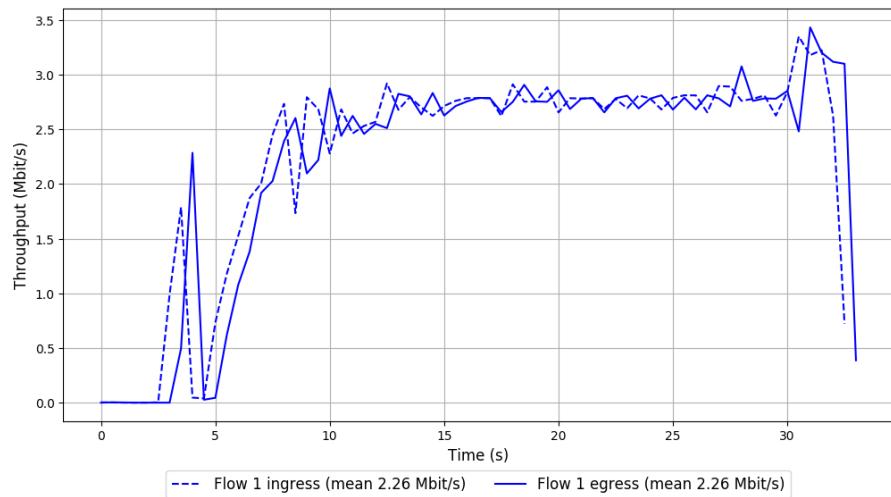


Run 2: Statistics of WebRTC media

```
Start at: 2019-09-18 16:25:52
End at: 2019-09-18 16:26:22
Local clock offset: 5.217 ms
Remote clock offset: 52.006 ms

# Below is generated by plot.py at 2019-09-18 18:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 88.099 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 88.099 ms
Loss rate: 0.32%
```

Run 2: Report of WebRTC media — Data Link

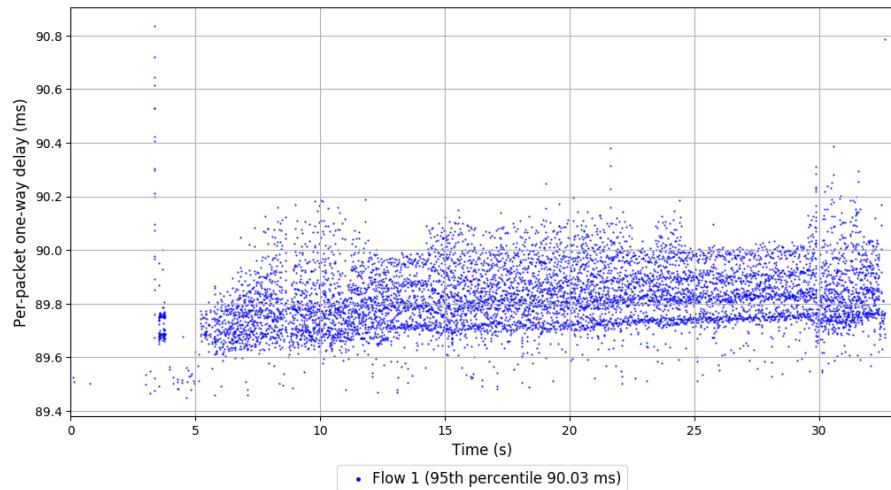
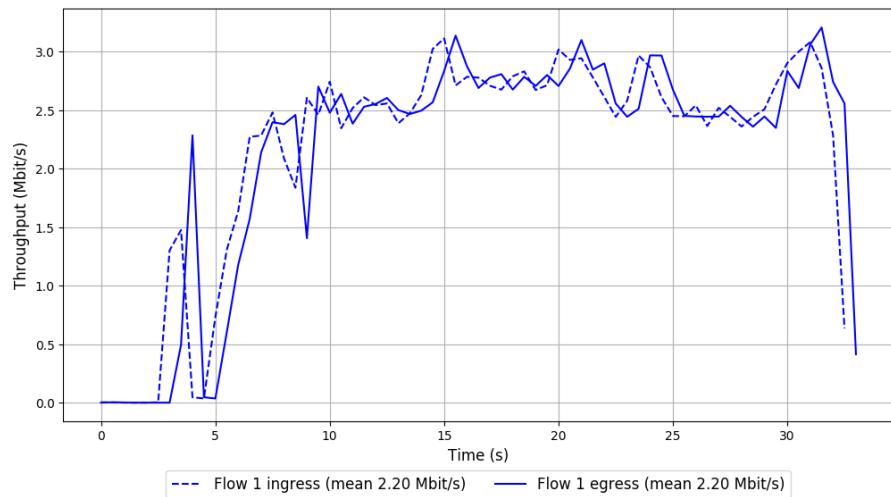


Run 3: Statistics of WebRTC media

```
Start at: 2019-09-18 16:54:19
End at: 2019-09-18 16:54:49
Local clock offset: 4.404 ms
Remote clock offset: 54.833 ms

# Below is generated by plot.py at 2019-09-18 18:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 90.031 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 90.031 ms
Loss rate: 0.37%
```

Run 3: Report of WebRTC media — Data Link

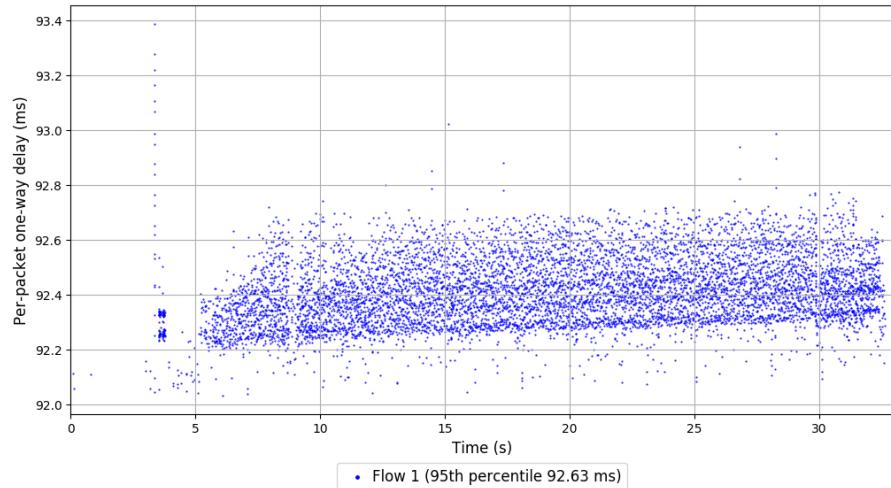
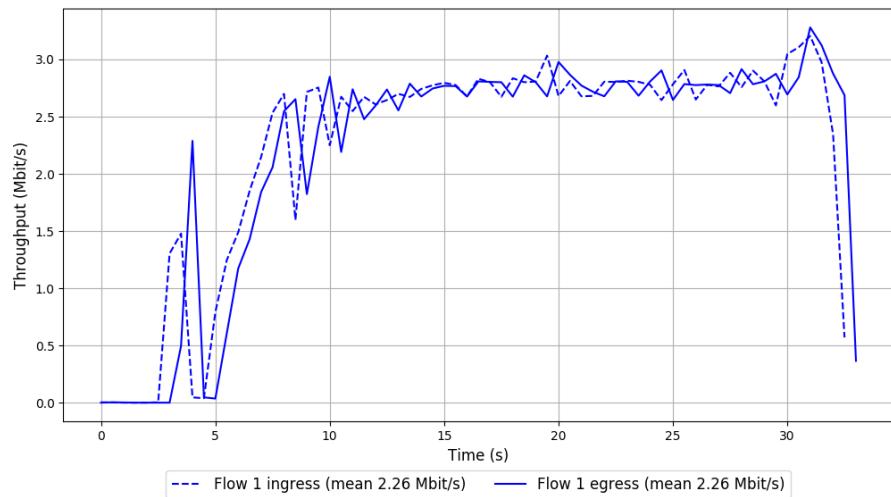


Run 4: Statistics of WebRTC media

```
Start at: 2019-09-18 17:22:44
End at: 2019-09-18 17:23:14
Local clock offset: 4.033 ms
Remote clock offset: 57.407 ms

# Below is generated by plot.py at 2019-09-18 18:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 92.630 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 92.630 ms
Loss rate: 0.31%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-09-18 17:51:13
End at: 2019-09-18 17:51:43
Local clock offset: 2.375 ms
Remote clock offset: 67.843 ms

# Below is generated by plot.py at 2019-09-18 18:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 87.405 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 87.405 ms
Loss rate: 0.45%
```

Run 5: Report of WebRTC media — Data Link

