

Pantheon Report

Generated at 2019-06-27 21:32:49 (UTC).
Data path: AWS California 2 on `ens5` (*local*) → Mexico on `em1` (*remote*).
Repeated the test of 22 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

System info:

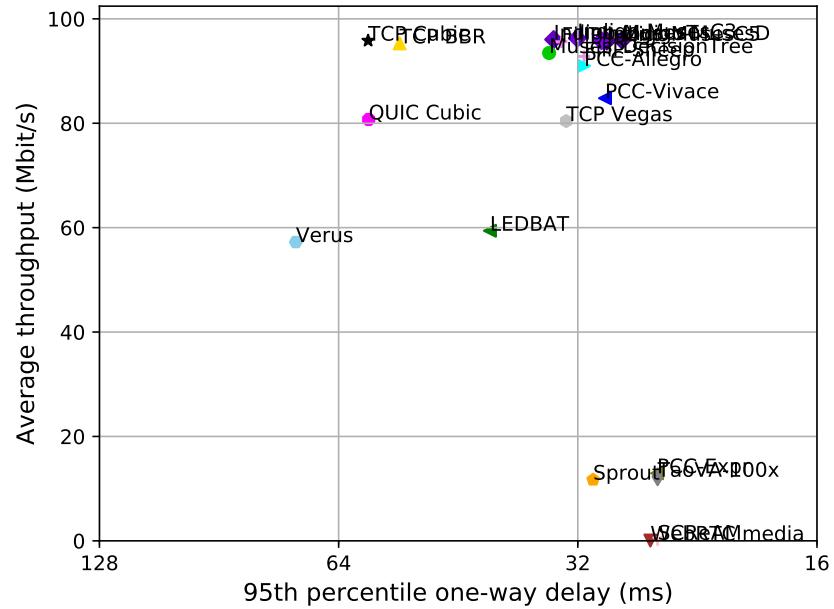
```
Linux 4.15.0-1039-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

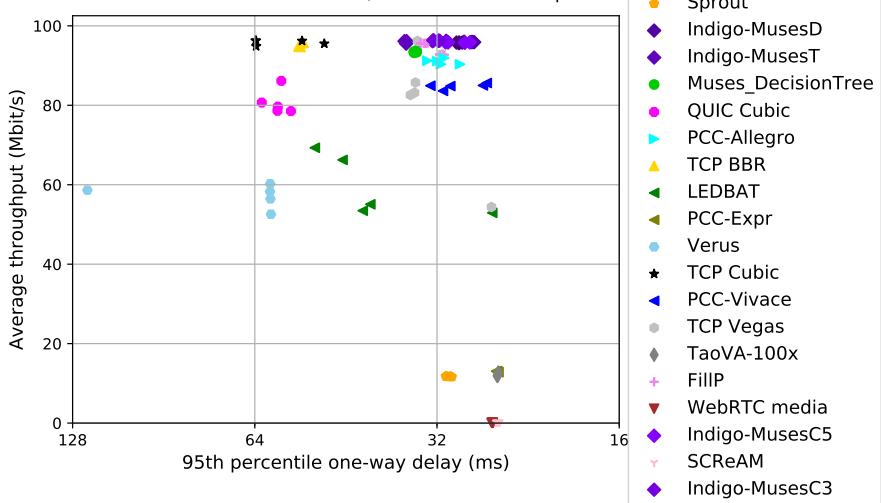
```
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
M helpers/_init_.pyc
M helpers/context.py
M helpers/utils.py
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
```

```
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS California 2 to Mexico, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS California 2 to Mexico, 5 runs of 30s each per scheme



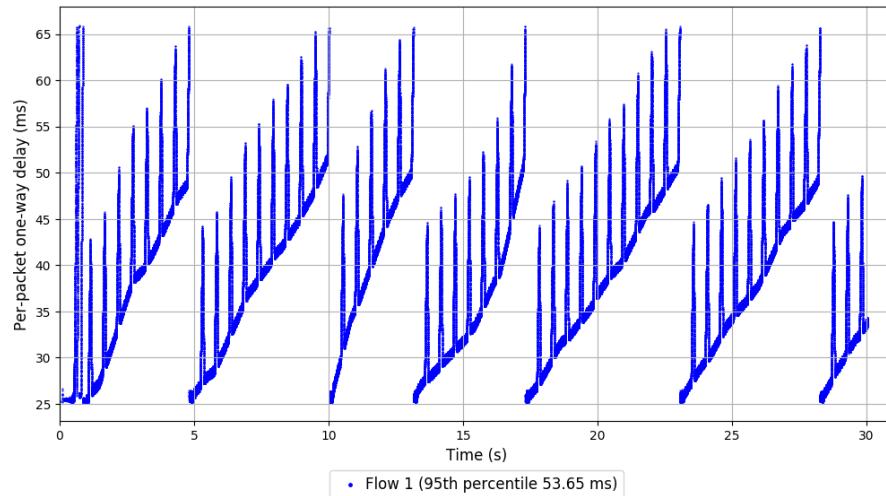
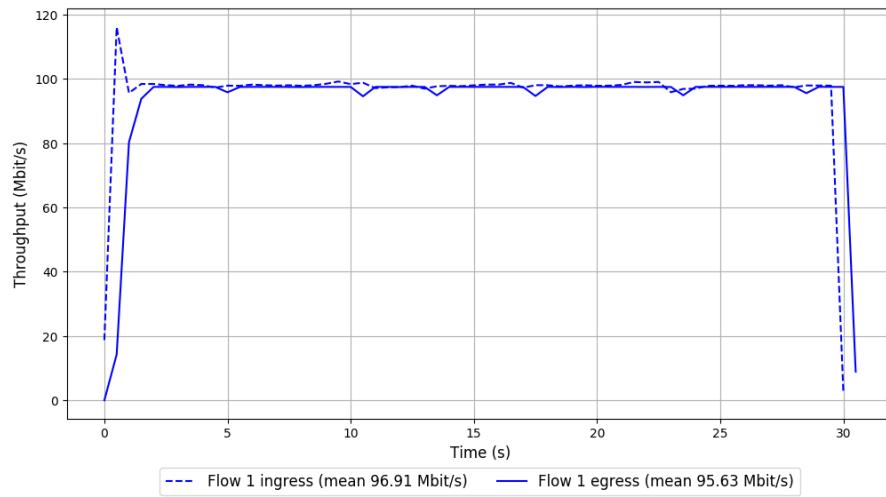
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	95.30	53.63	1.12
Copa	0	N/A	N/A	N/A
TCP Cubic	5	95.82	58.76	0.58
FillP	5	95.60	33.55	0.65
FillP-Sheep	5	92.79	31.42	0.62
Indigo	5	95.75	29.42	0.00
Indigo-MusesC3	5	96.29	32.05	0.04
Indigo-MusesC5	5	95.82	29.88	0.01
Indigo-MusesD	5	95.93	28.15	0.00
Indigo-MusesT	5	96.04	34.32	0.79
LEDBAT	5	59.40	41.28	0.01
Muses_DecisionTree	5	93.46	34.78	0.34
PCC-Allegro	5	90.98	31.42	0.74
PCC-Expr	5	12.95	25.43	45.40
QUIC Cubic	5	80.73	58.66	1.52
SCReAM	5	0.21	25.39	0.00
Sprout	5	11.72	30.61	0.00
TaoVA-100x	5	12.28	25.39	72.18
TCP Vegas	5	80.41	33.09	0.46
Verus	5	57.24	72.45	33.44
PCC-Vivace	5	84.80	29.58	0.00
WebRTC media	5	0.05	25.93	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-06-27 19:26:24
End at: 2019-06-27 19:26:54
Local clock offset: -0.105 ms
Remote clock offset: -5.053 ms

# Below is generated by plot.py at 2019-06-27 21:21:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 53.651 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 53.651 ms
Loss rate: 1.29%
```

Run 1: Report of TCP BBR — Data Link

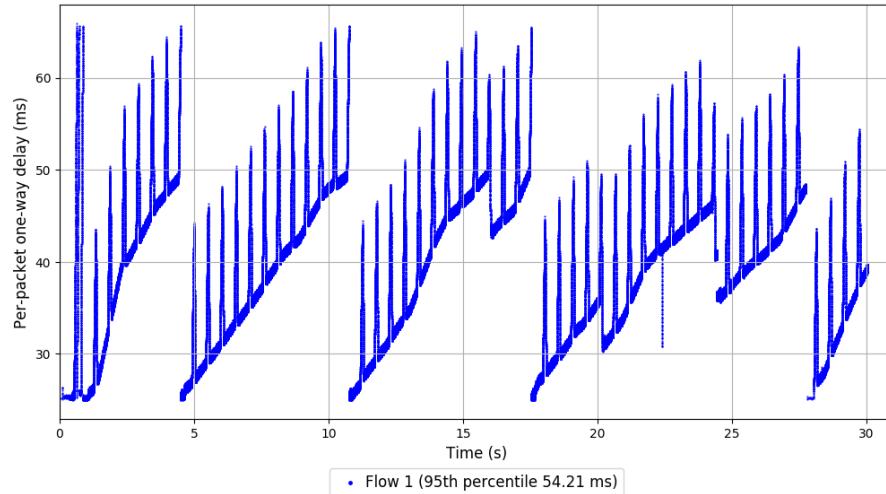
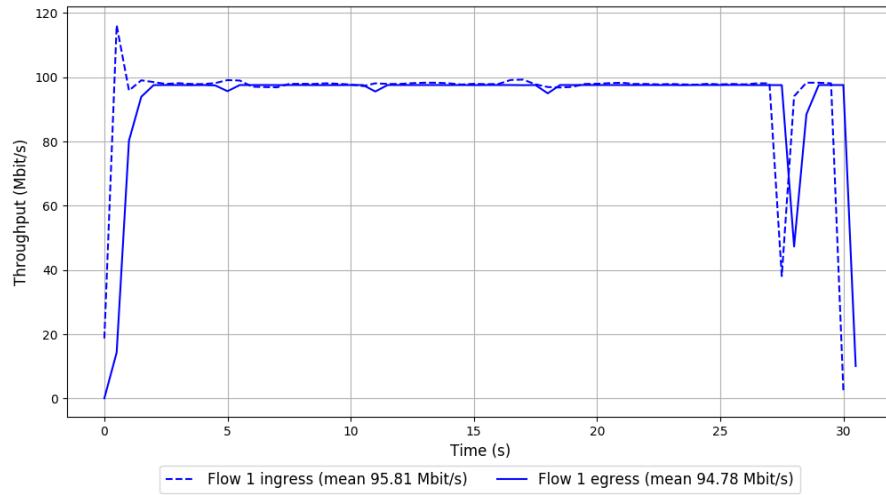


Run 2: Statistics of TCP BBR

```
Start at: 2019-06-27 19:53:38
End at: 2019-06-27 19:54:08
Local clock offset: -1.314 ms
Remote clock offset: -4.166 ms

# Below is generated by plot.py at 2019-06-27 21:21:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 54.208 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 54.208 ms
Loss rate: 1.03%
```

Run 2: Report of TCP BBR — Data Link

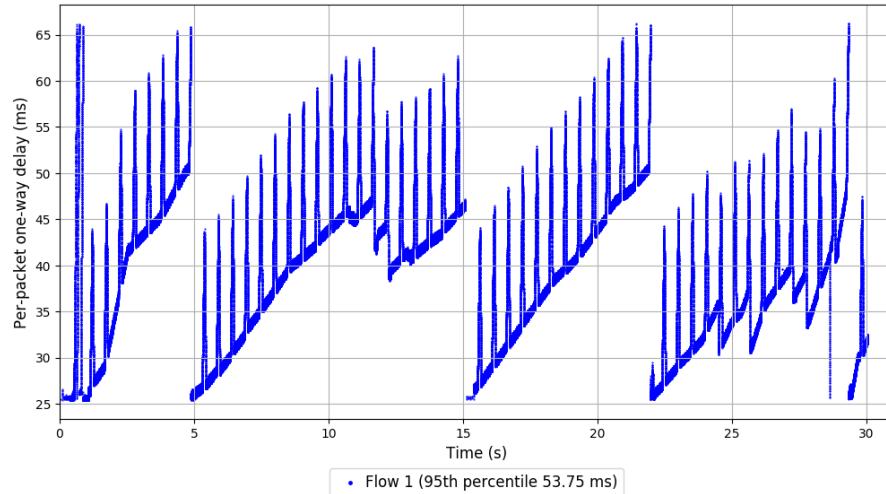
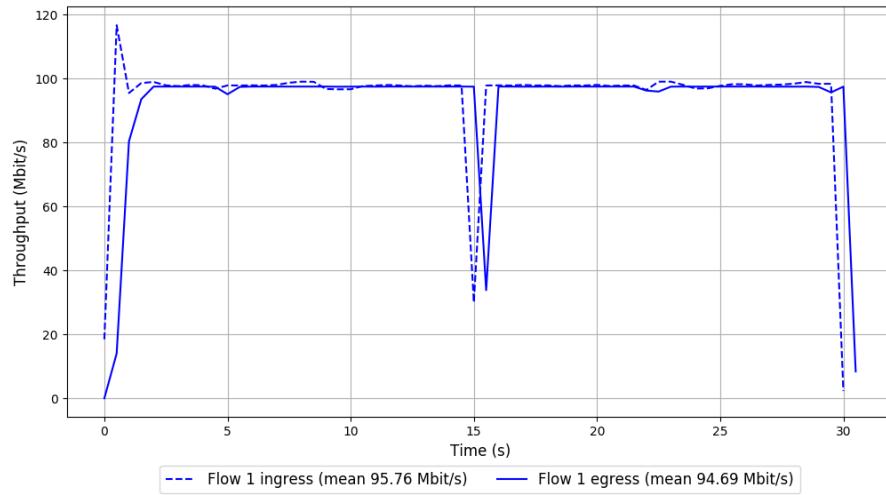


Run 3: Statistics of TCP BBR

```
Start at: 2019-06-27 20:19:51
End at: 2019-06-27 20:20:21
Local clock offset: -2.639 ms
Remote clock offset: -3.437 ms

# Below is generated by plot.py at 2019-06-27 21:21:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.69 Mbit/s
95th percentile per-packet one-way delay: 53.754 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 94.69 Mbit/s
95th percentile per-packet one-way delay: 53.754 ms
Loss rate: 1.10%
```

Run 3: Report of TCP BBR — Data Link

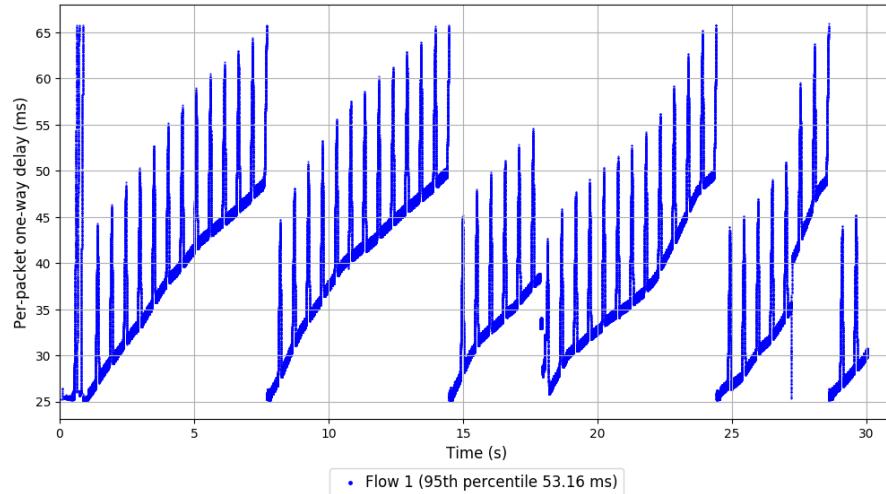
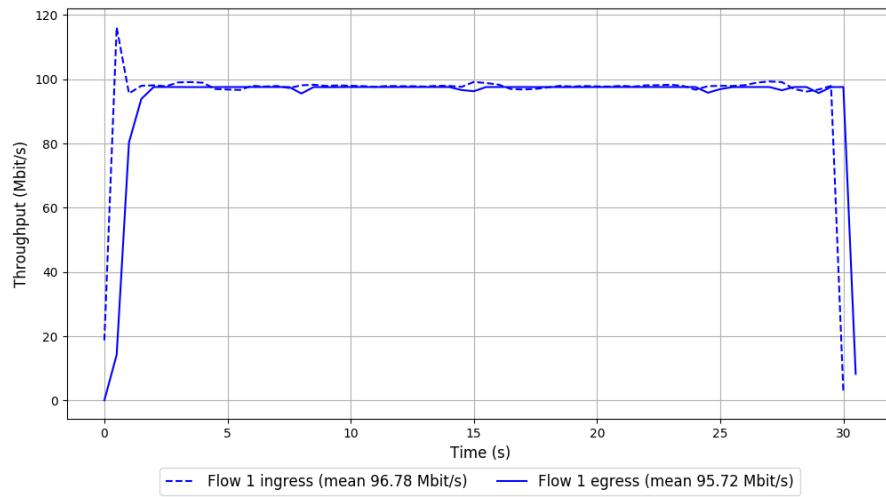


Run 4: Statistics of TCP BBR

```
Start at: 2019-06-27 20:46:18
End at: 2019-06-27 20:46:48
Local clock offset: 0.337 ms
Remote clock offset: -3.079 ms

# Below is generated by plot.py at 2019-06-27 21:21:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 53.155 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 53.155 ms
Loss rate: 1.08%
```

Run 4: Report of TCP BBR — Data Link

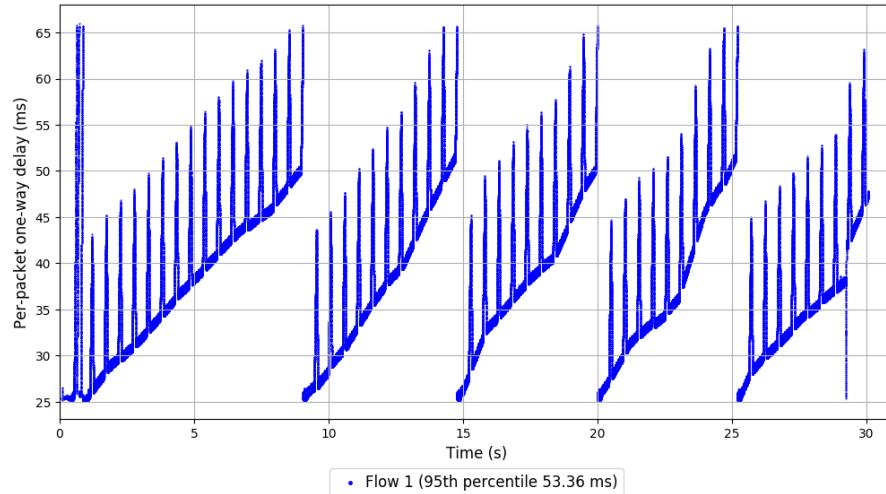
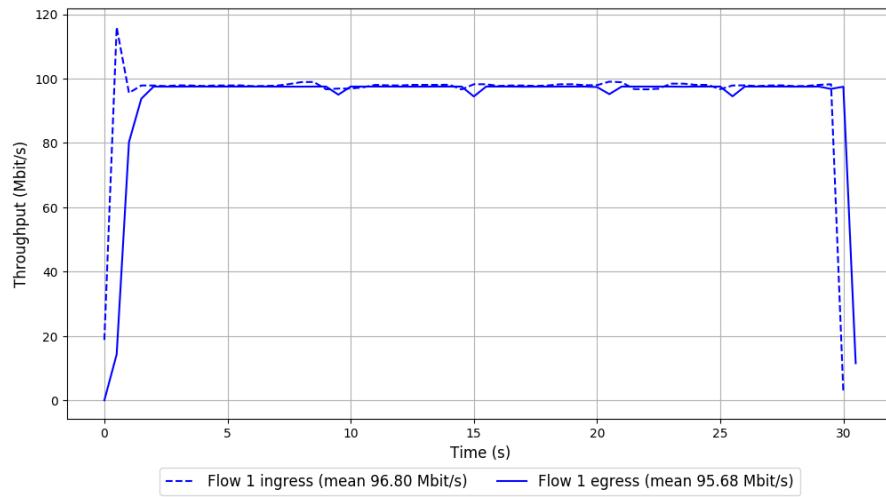


Run 5: Statistics of TCP BBR

```
Start at: 2019-06-27 21:13:18
End at: 2019-06-27 21:13:48
Local clock offset: 0.32 ms
Remote clock offset: -3.12 ms

# Below is generated by plot.py at 2019-06-27 21:21:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 53.359 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 53.359 ms
Loss rate: 1.09%
```

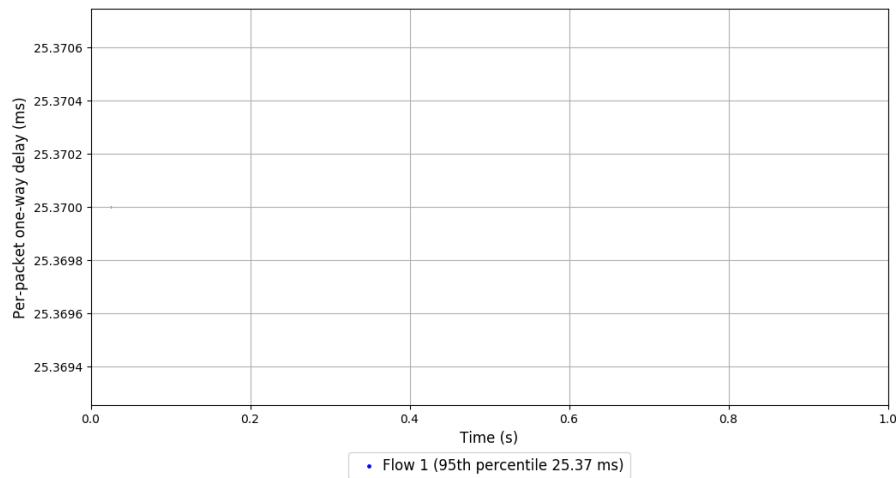
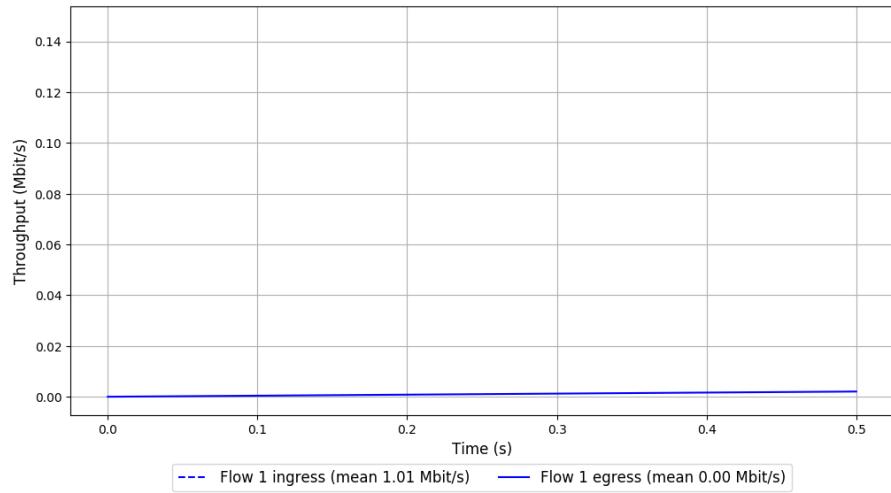
Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-06-27 19:12:57
End at: 2019-06-27 19:13:27
Local clock offset: -0.071 ms
Remote clock offset: -5.292 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

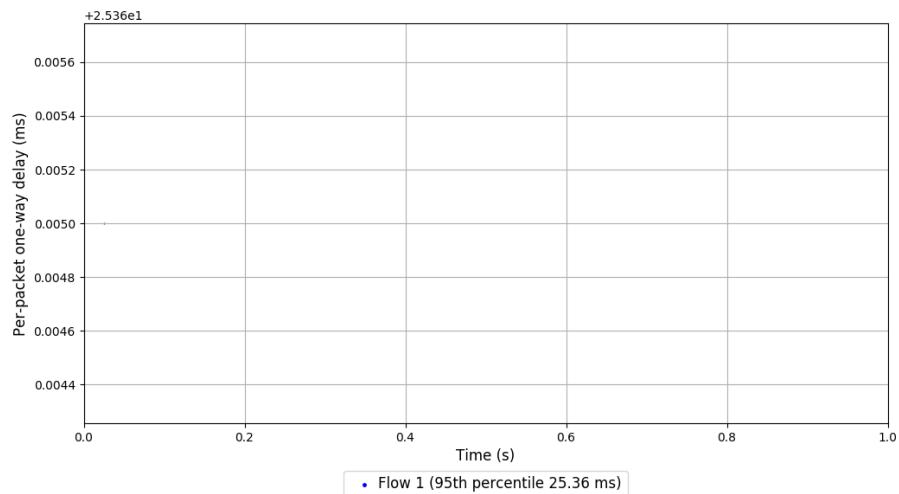
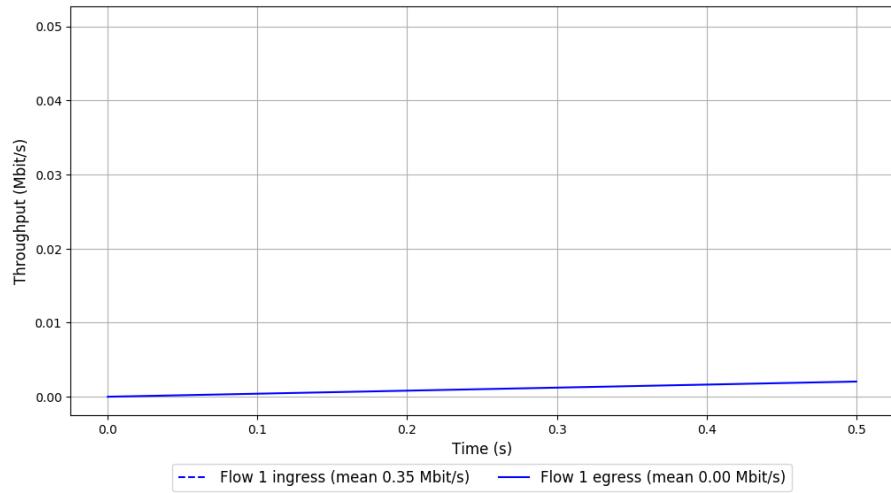
Start at: 2019-06-27 19:39:55

End at: 2019-06-27 19:40:25

Local clock offset: -0.104 ms

Remote clock offset: -4.549 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

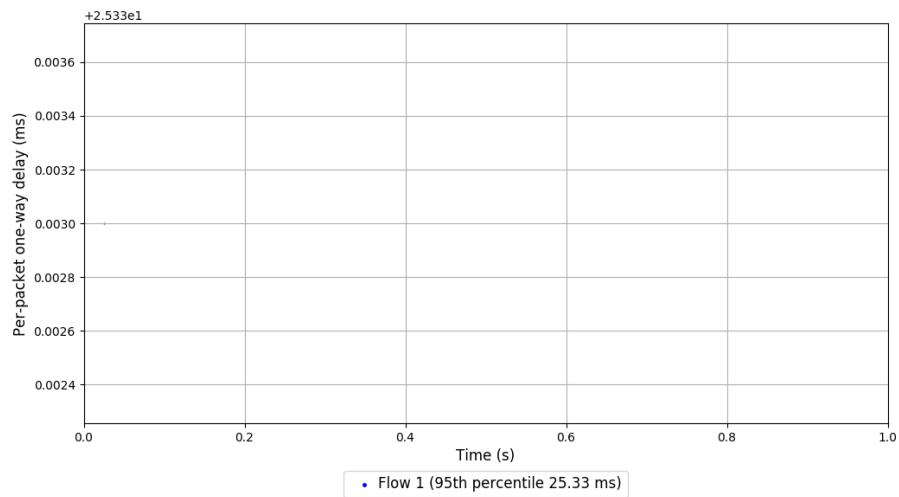
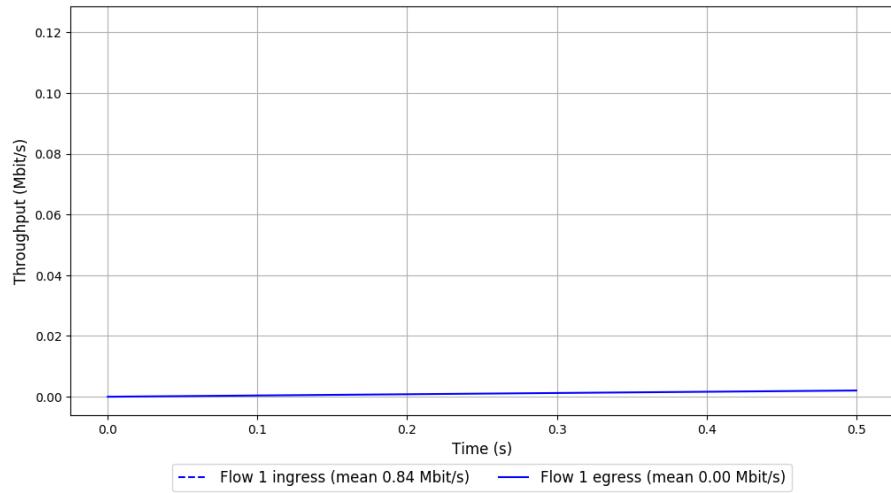
Start at: 2019-06-27 20:06:52

End at: 2019-06-27 20:07:22

Local clock offset: -2.658 ms

Remote clock offset: -3.686 ms

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

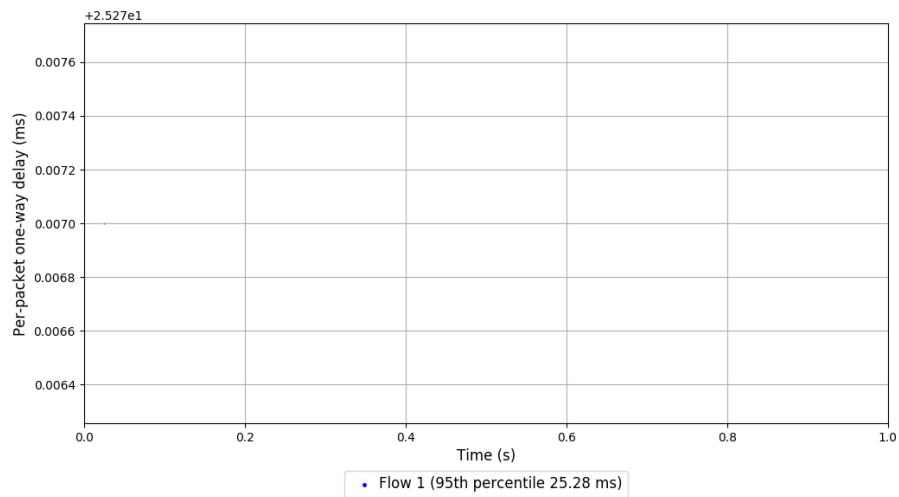
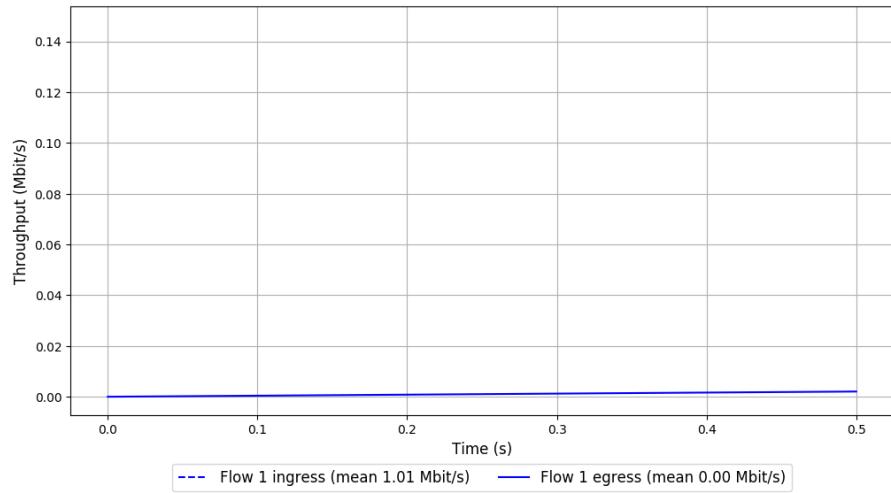
Start at: 2019-06-27 20:32:48

End at: 2019-06-27 20:33:18

Local clock offset: -0.323 ms

Remote clock offset: -3.249 ms

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

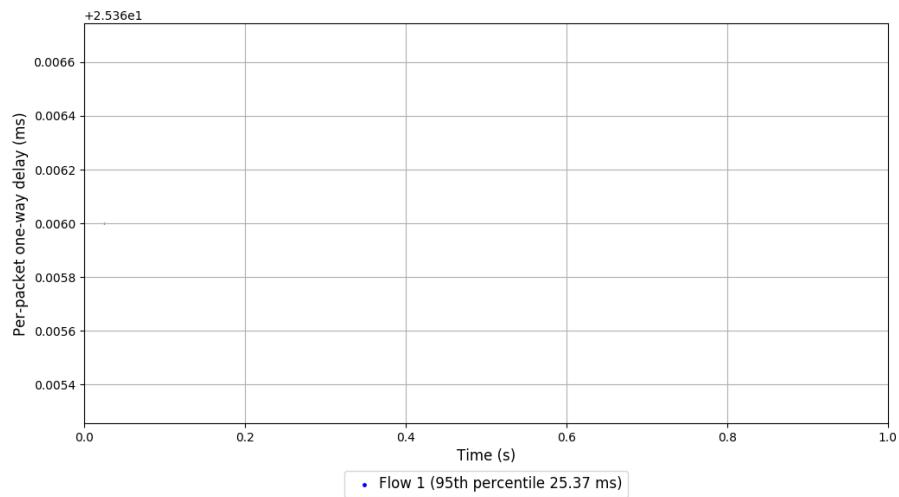
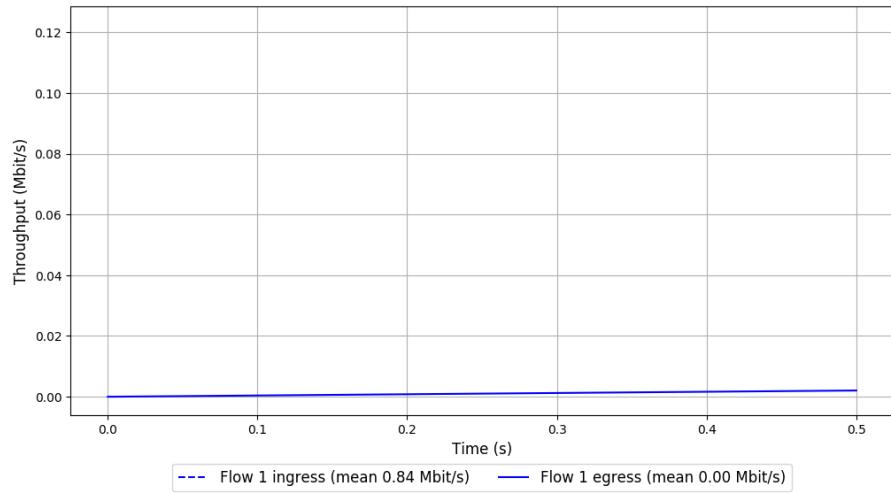
Start at: 2019-06-27 20:59:34

End at: 2019-06-27 21:00:04

Local clock offset: 0.267 ms

Remote clock offset: -2.943 ms

Run 5: Report of Copa — Data Link

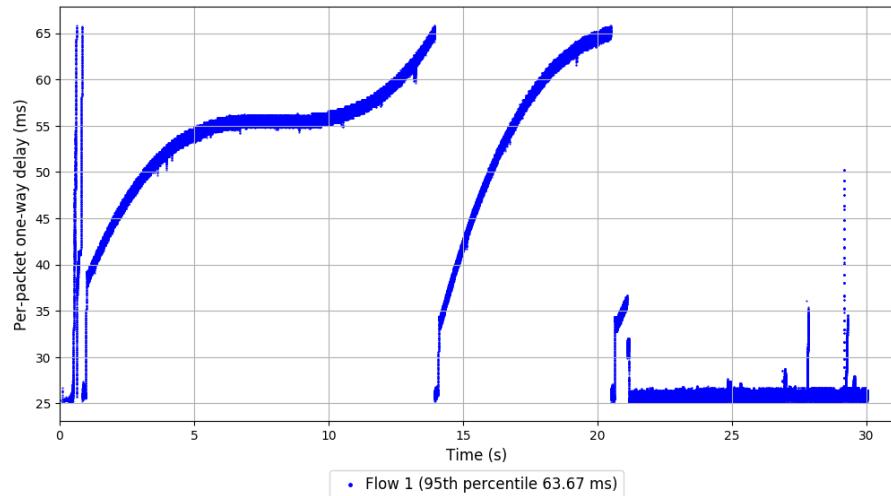
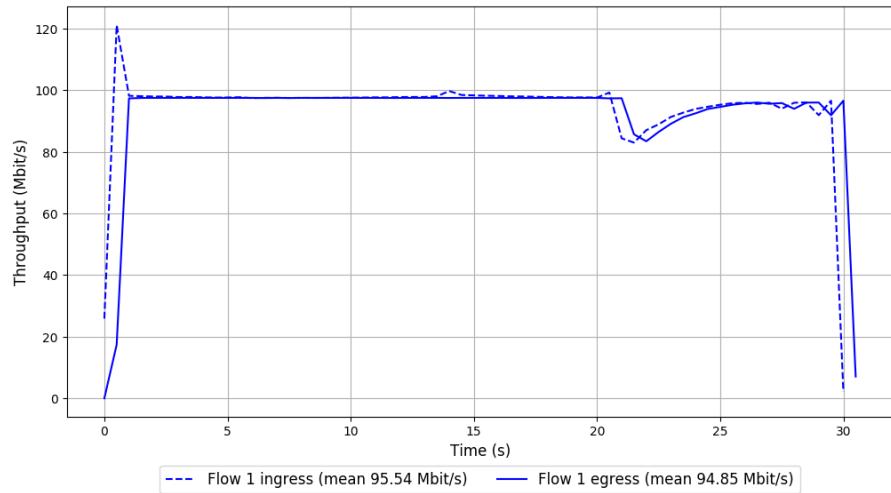


Run 1: Statistics of TCP Cubic

```
Start at: 2019-06-27 19:31:14
End at: 2019-06-27 19:31:44
Local clock offset: -0.103 ms
Remote clock offset: -4.863 ms

# Below is generated by plot.py at 2019-06-27 21:21:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.85 Mbit/s
95th percentile per-packet one-way delay: 63.674 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 94.85 Mbit/s
95th percentile per-packet one-way delay: 63.674 ms
Loss rate: 0.72%
```

Run 1: Report of TCP Cubic — Data Link

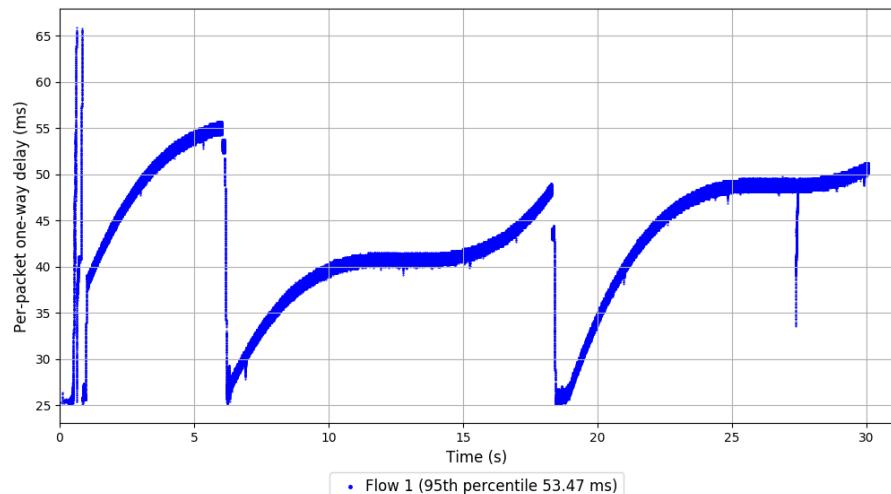
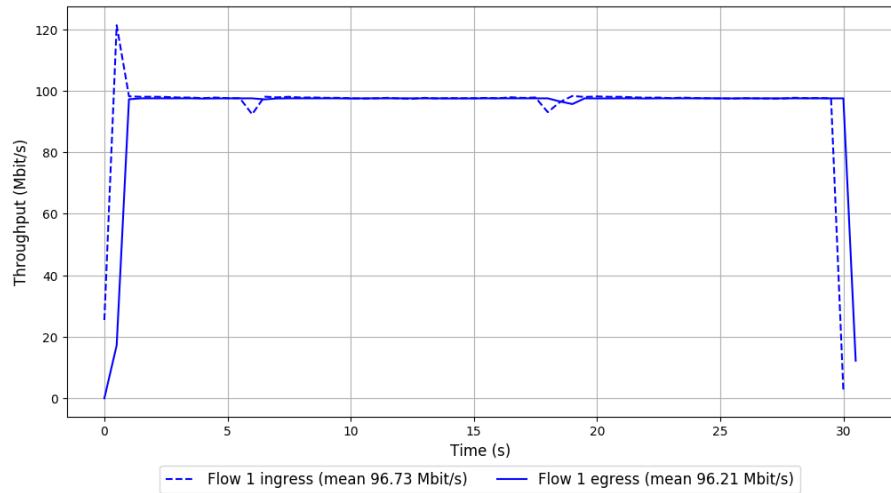


Run 2: Statistics of TCP Cubic

```
Start at: 2019-06-27 19:58:20
End at: 2019-06-27 19:58:50
Local clock offset: -1.928 ms
Remote clock offset: -3.889 ms

# Below is generated by plot.py at 2019-06-27 21:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 53.470 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 53.470 ms
Loss rate: 0.45%
```

Run 2: Report of TCP Cubic — Data Link

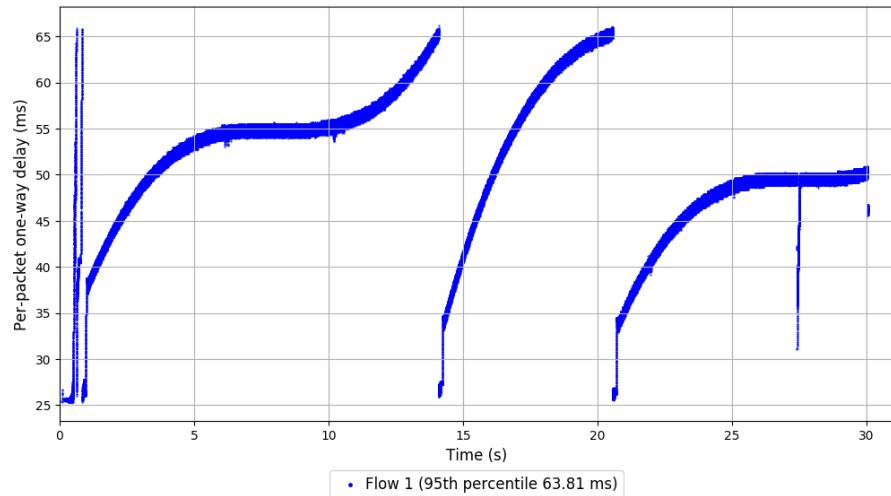
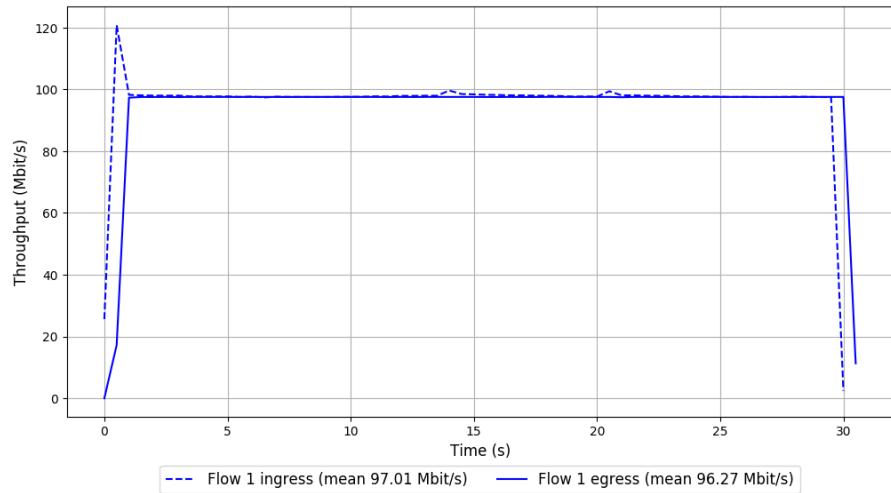


Run 3: Statistics of TCP Cubic

```
Start at: 2019-06-27 20:24:30
End at: 2019-06-27 20:25:00
Local clock offset: -1.406 ms
Remote clock offset: -3.361 ms

# Below is generated by plot.py at 2019-06-27 21:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 63.815 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 63.815 ms
Loss rate: 0.70%
```

Run 3: Report of TCP Cubic — Data Link

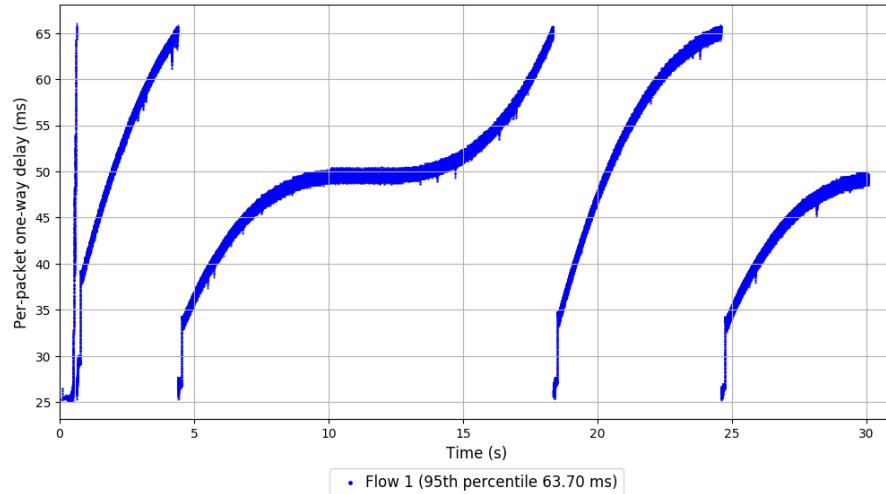
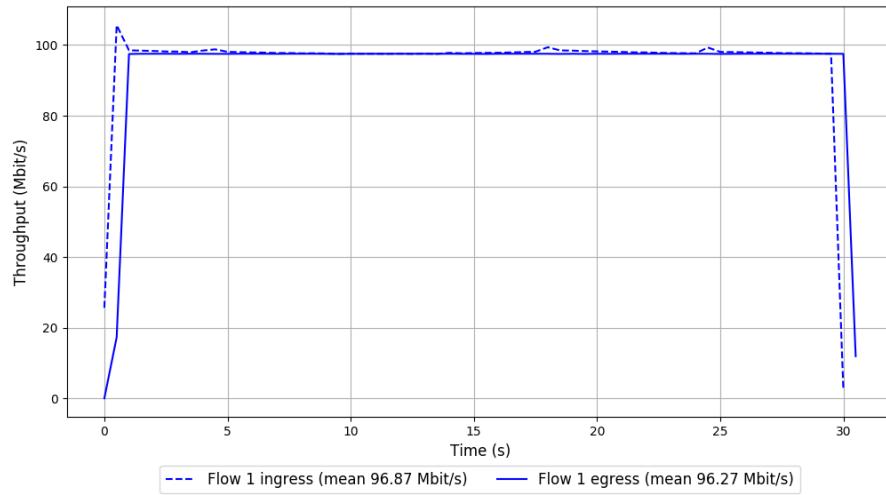


Run 4: Statistics of TCP Cubic

```
Start at: 2019-06-27 20:51:08
End at: 2019-06-27 20:51:38
Local clock offset: 0.31 ms
Remote clock offset: -3.016 ms

# Below is generated by plot.py at 2019-06-27 21:22:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 63.702 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 63.702 ms
Loss rate: 0.54%
```

Run 4: Report of TCP Cubic — Data Link

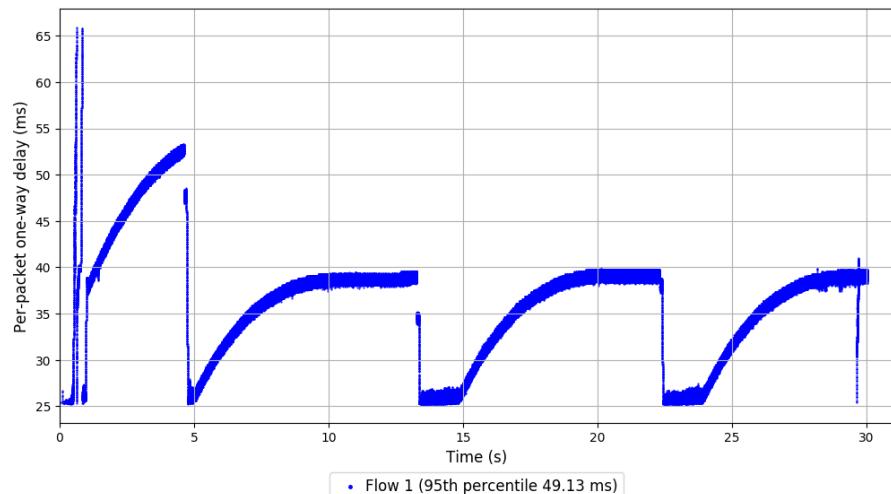
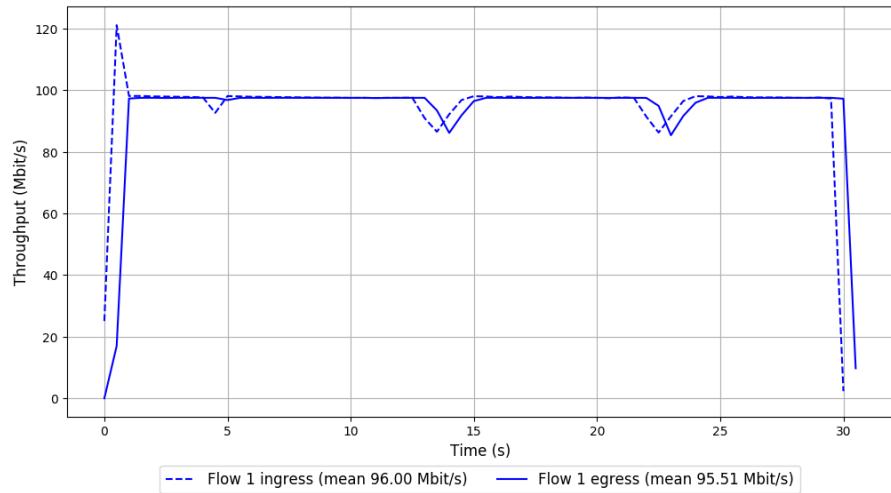


Run 5: Statistics of TCP Cubic

```
Start at: 2019-06-27 21:18:00
End at: 2019-06-27 21:18:30
Local clock offset: 0.347 ms
Remote clock offset: -3.13 ms

# Below is generated by plot.py at 2019-06-27 21:22:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 49.132 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 49.132 ms
Loss rate: 0.47%
```

Run 5: Report of TCP Cubic — Data Link

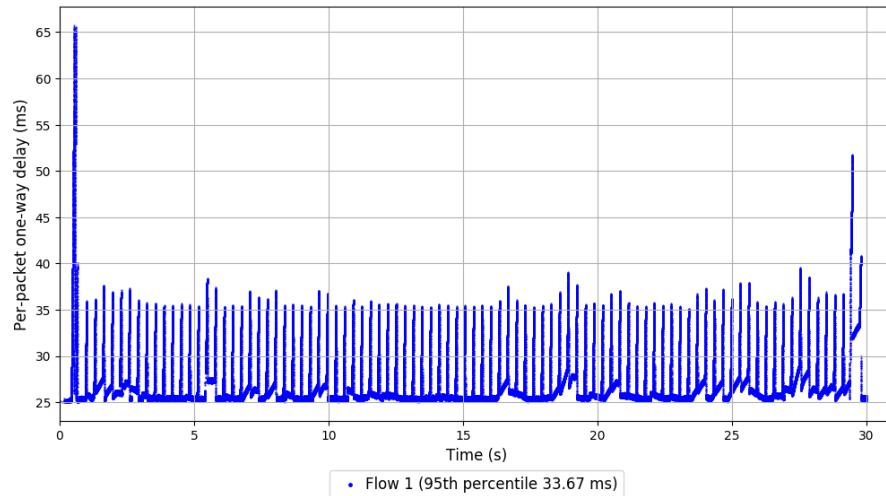
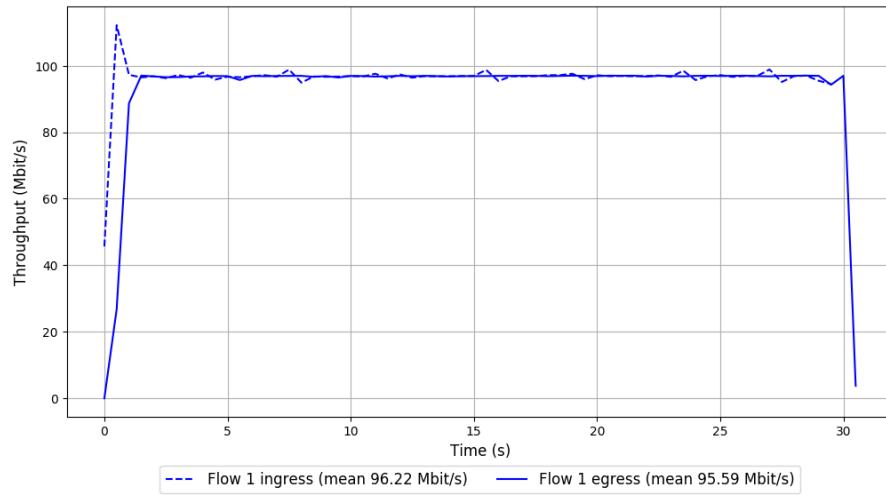


```
Run 1: Statistics of FillP
```

```
Start at: 2019-06-27 19:22:25
End at: 2019-06-27 19:22:55
Local clock offset: -0.141 ms
Remote clock offset: -5.209 ms

# Below is generated by plot.py at 2019-06-27 21:22:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 33.666 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 33.666 ms
Loss rate: 0.66%
```

Run 1: Report of FillP — Data Link

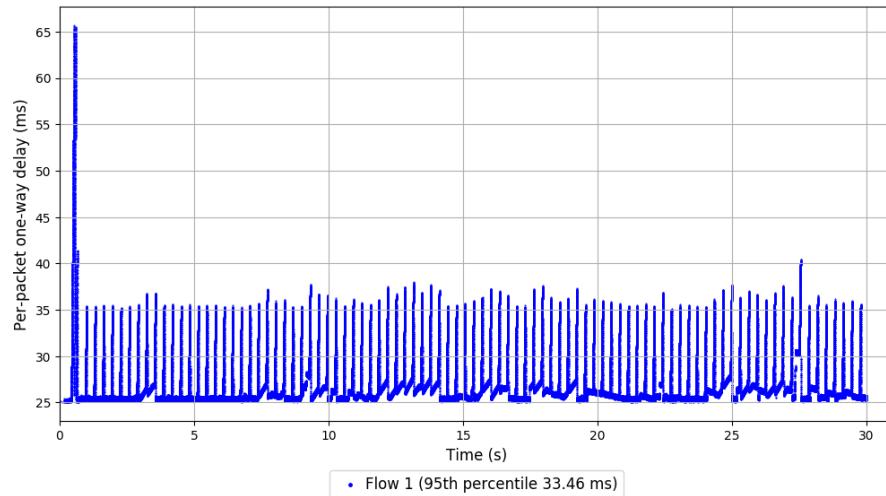
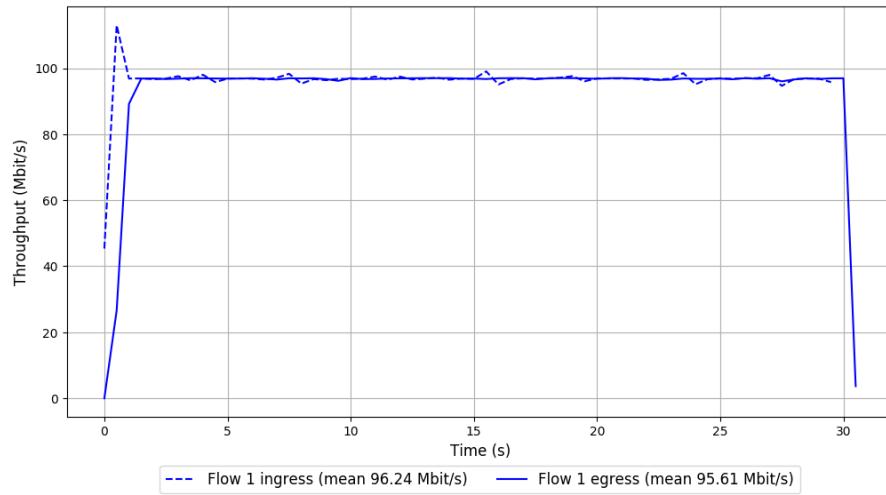


Run 2: Statistics of FillP

```
Start at: 2019-06-27 19:49:53
End at: 2019-06-27 19:50:23
Local clock offset: -0.674 ms
Remote clock offset: -4.216 ms

# Below is generated by plot.py at 2019-06-27 21:22:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 33.456 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 33.456 ms
Loss rate: 0.65%
```

Run 2: Report of FillP — Data Link

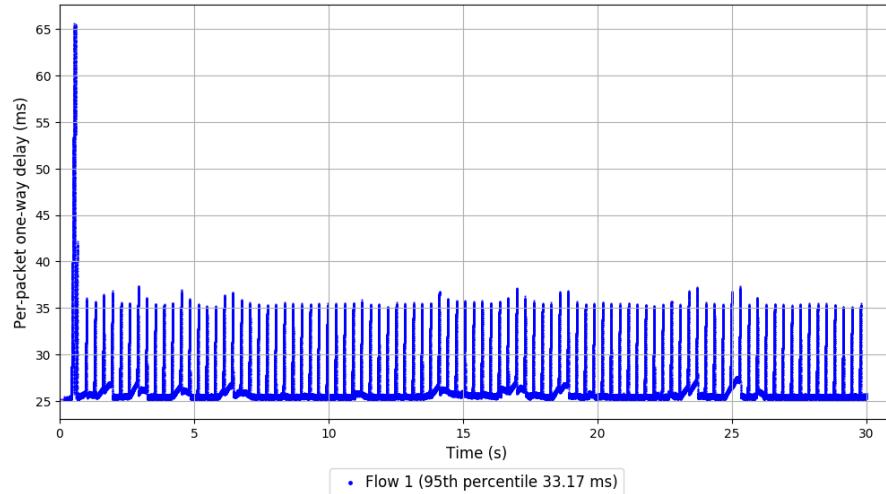
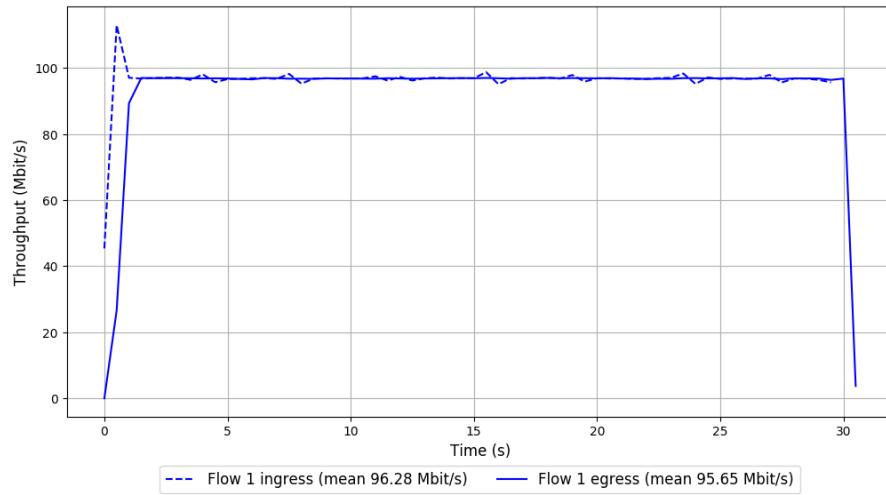


Run 3: Statistics of FillP

```
Start at: 2019-06-27 20:16:13
End at: 2019-06-27 20:16:43
Local clock offset: -3.156 ms
Remote clock offset: -3.53 ms

# Below is generated by plot.py at 2019-06-27 21:22:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 33.167 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 33.167 ms
Loss rate: 0.65%
```

Run 3: Report of FillP — Data Link

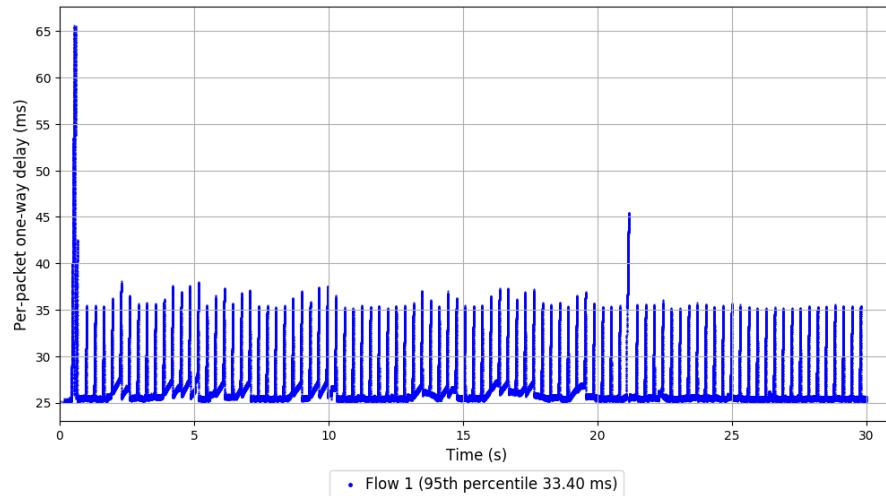
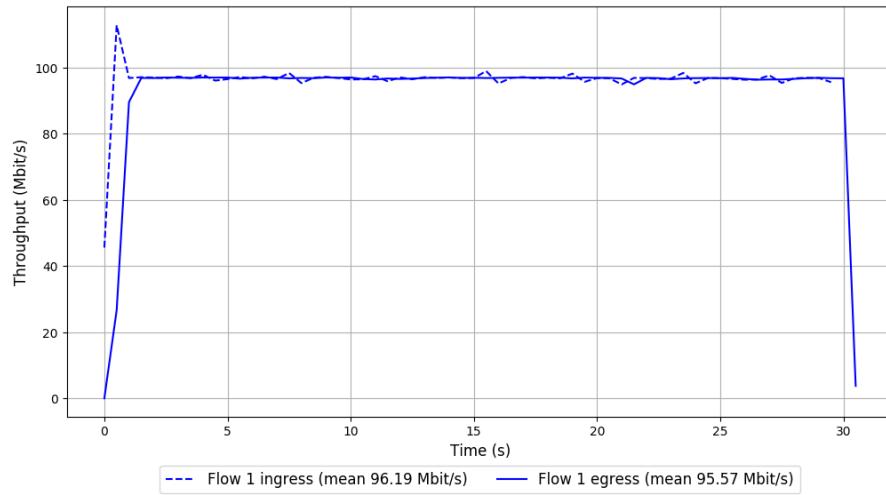


Run 4: Statistics of FillP

```
Start at: 2019-06-27 20:42:34
End at: 2019-06-27 20:43:04
Local clock offset: 0.198 ms
Remote clock offset: -3.171 ms

# Below is generated by plot.py at 2019-06-27 21:22:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.57 Mbit/s
95th percentile per-packet one-way delay: 33.401 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 95.57 Mbit/s
95th percentile per-packet one-way delay: 33.401 ms
Loss rate: 0.65%
```

Run 4: Report of FillP — Data Link

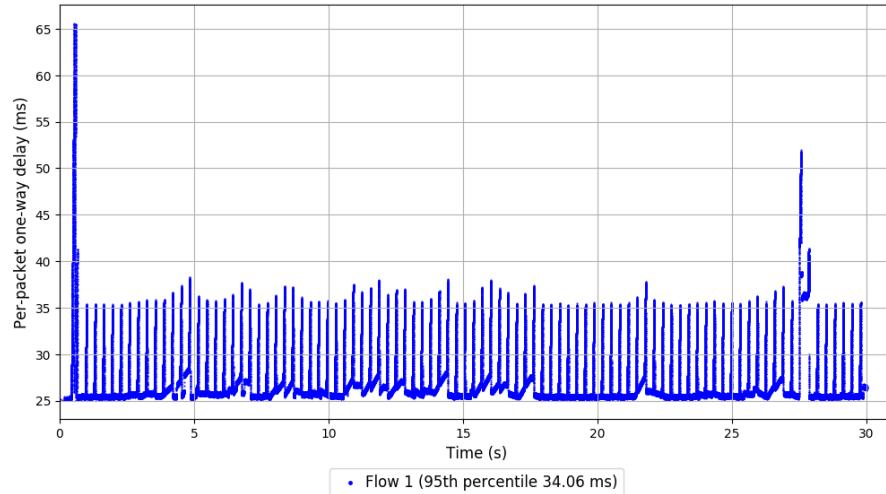
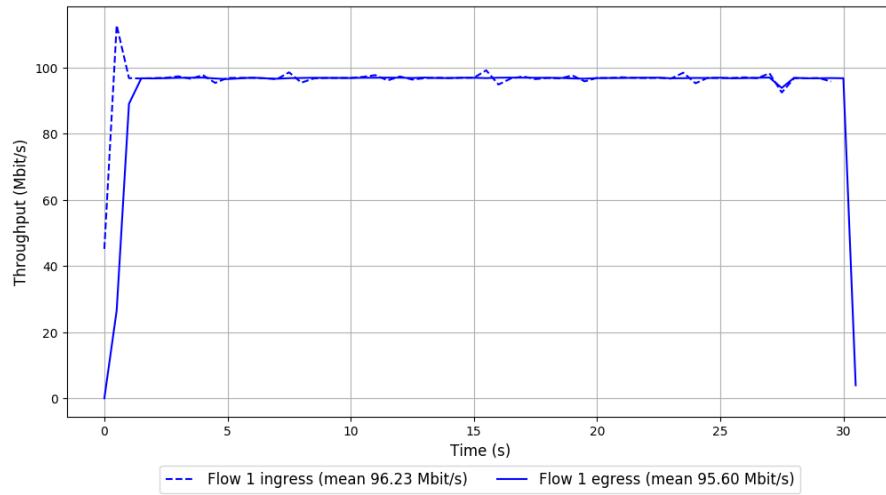


Run 5: Statistics of FillP

```
Start at: 2019-06-27 21:09:24
End at: 2019-06-27 21:09:54
Local clock offset: 0.282 ms
Remote clock offset: -3.078 ms

# Below is generated by plot.py at 2019-06-27 21:23:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 34.057 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 34.057 ms
Loss rate: 0.65%
```

Run 5: Report of FillP — Data Link

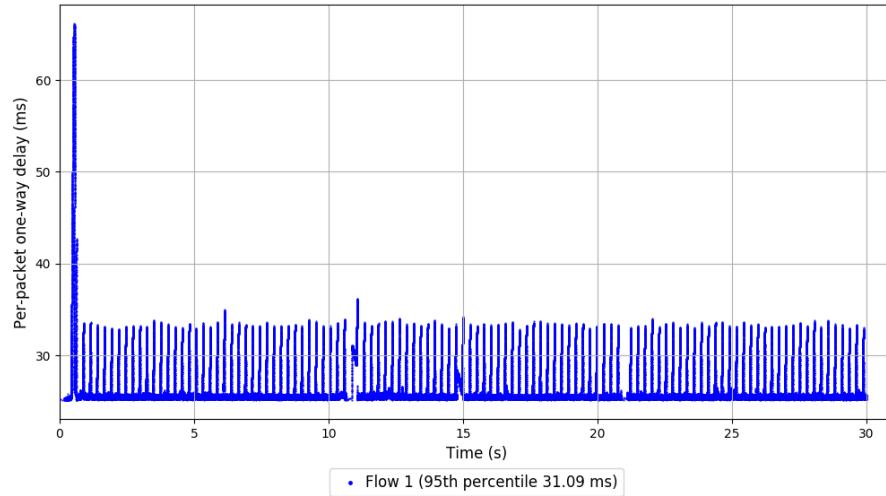
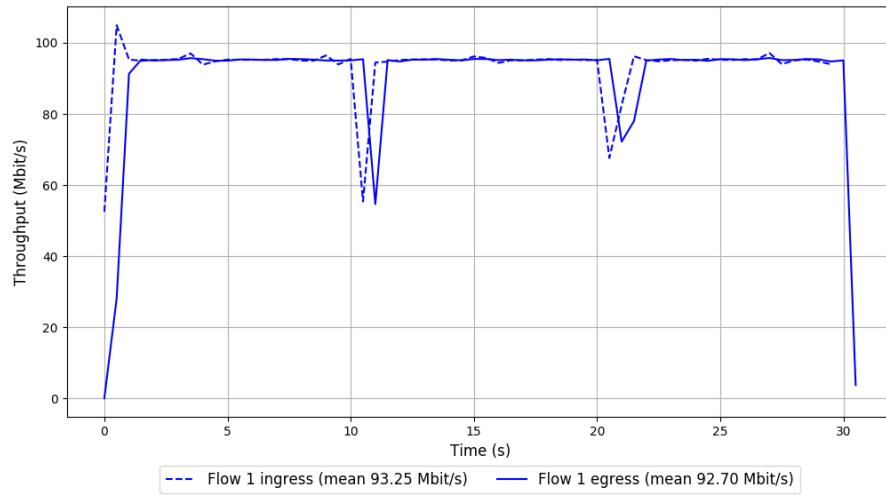


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-06-27 19:25:03
End at: 2019-06-27 19:25:33
Local clock offset: -0.129 ms
Remote clock offset: -5.083 ms

# Below is generated by plot.py at 2019-06-27 21:23:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 31.089 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 31.089 ms
Loss rate: 0.59%
```

Run 1: Report of FillP-Sheep — Data Link

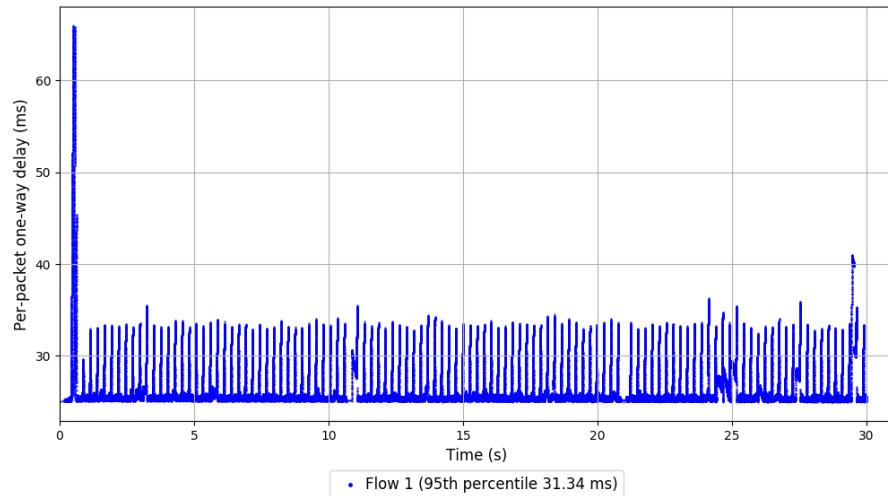
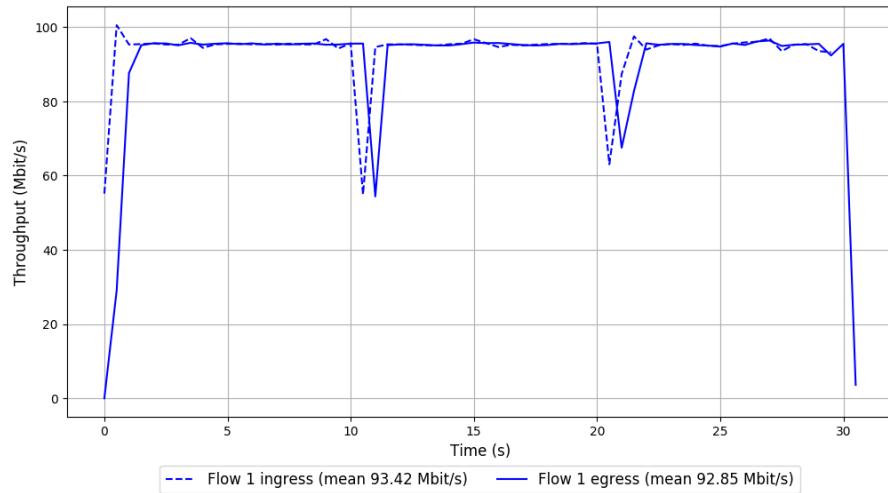


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-06-27 19:52:24
End at: 2019-06-27 19:52:54
Local clock offset: -1.137 ms
Remote clock offset: -4.179 ms

# Below is generated by plot.py at 2019-06-27 21:24:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 31.339 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 31.339 ms
Loss rate: 0.61%
```

Run 2: Report of FillP-Sheep — Data Link

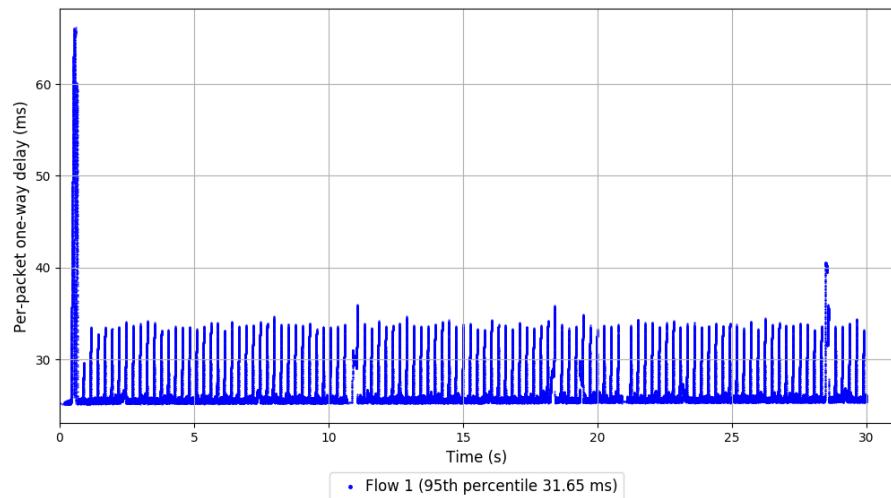
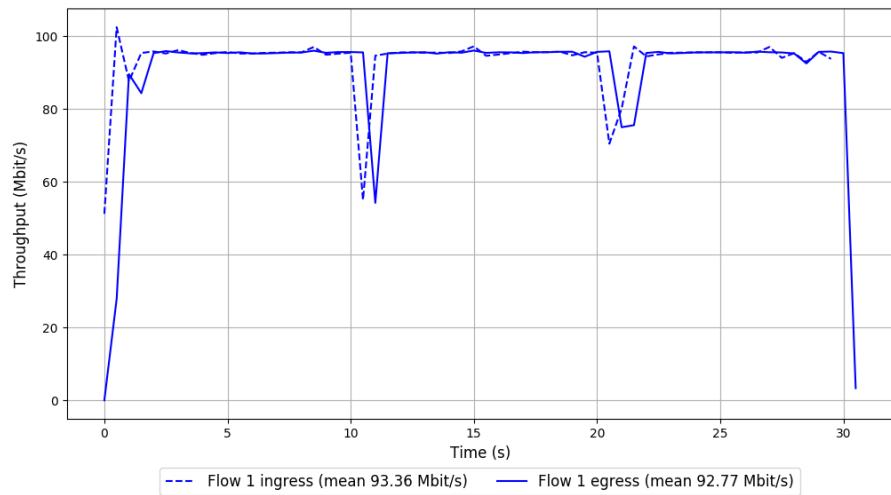


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-06-27 20:18:40
End at: 2019-06-27 20:19:10
Local clock offset: -3.001 ms
Remote clock offset: -3.552 ms

# Below is generated by plot.py at 2019-06-27 21:24:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 31.652 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 31.652 ms
Loss rate: 0.62%
```

Run 3: Report of FillP-Sheep — Data Link

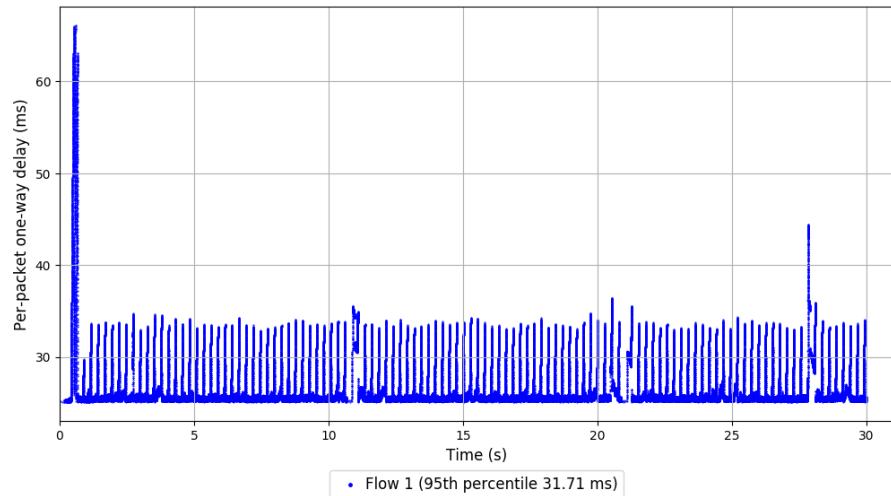
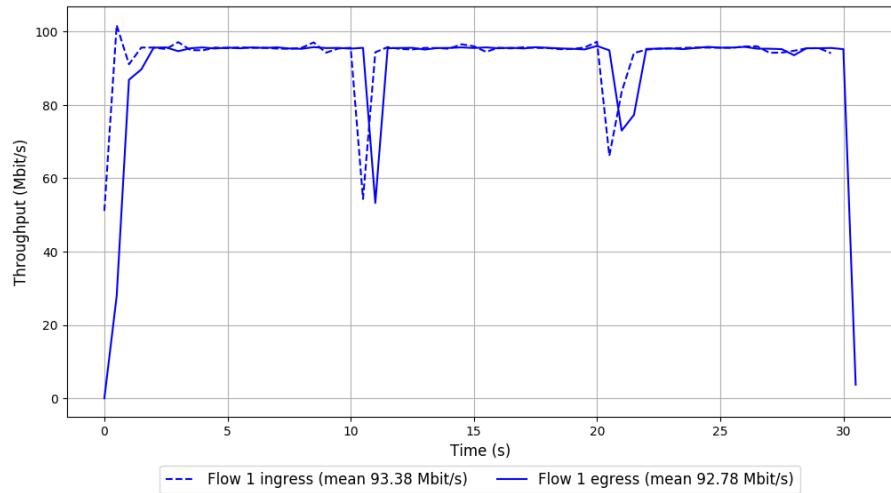


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-06-27 20:45:06
End at: 2019-06-27 20:45:36
Local clock offset: 0.28 ms
Remote clock offset: -3.116 ms

# Below is generated by plot.py at 2019-06-27 21:24:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 31.708 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 31.708 ms
Loss rate: 0.64%
```

Run 4: Report of FillP-Sheep — Data Link

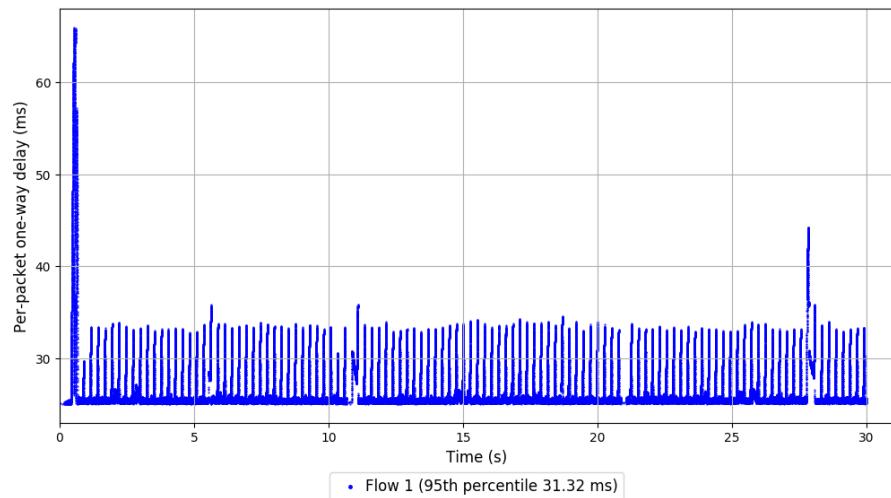
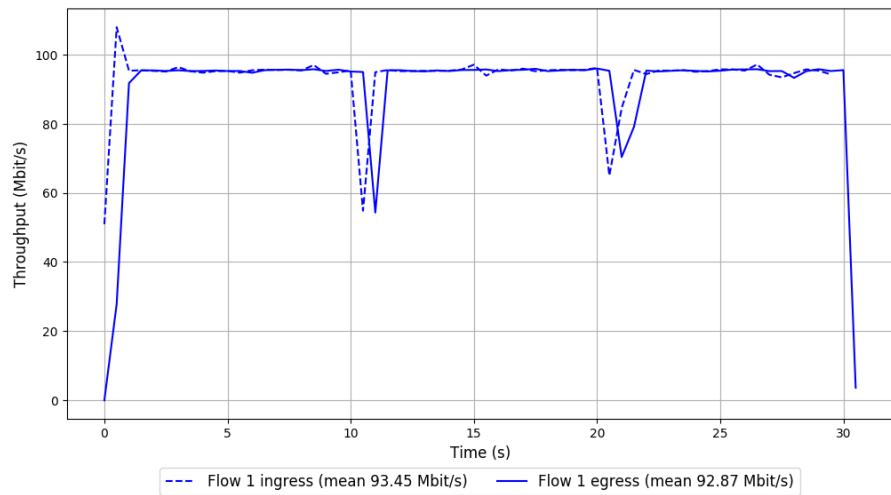


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-06-27 21:12:02
End at: 2019-06-27 21:12:32
Local clock offset: 0.319 ms
Remote clock offset: -3.095 ms

# Below is generated by plot.py at 2019-06-27 21:24:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.87 Mbit/s
95th percentile per-packet one-way delay: 31.316 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 92.87 Mbit/s
95th percentile per-packet one-way delay: 31.316 ms
Loss rate: 0.62%
```

Run 5: Report of FillP-Sheep — Data Link

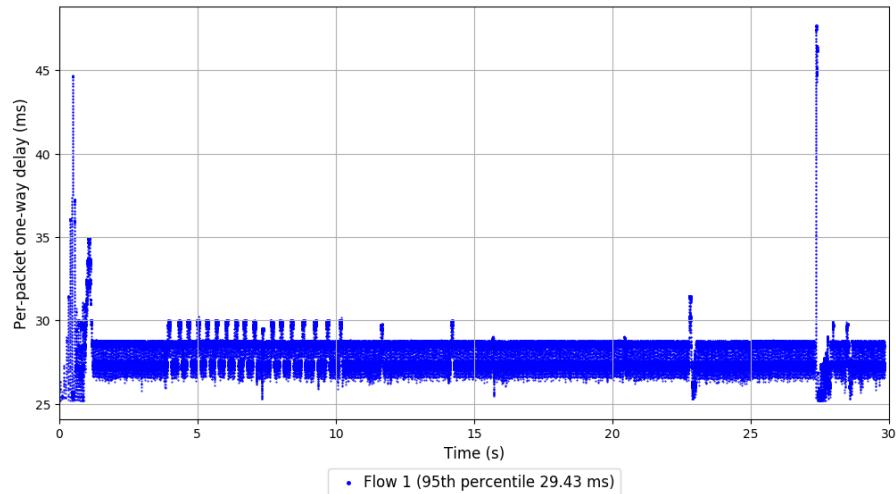
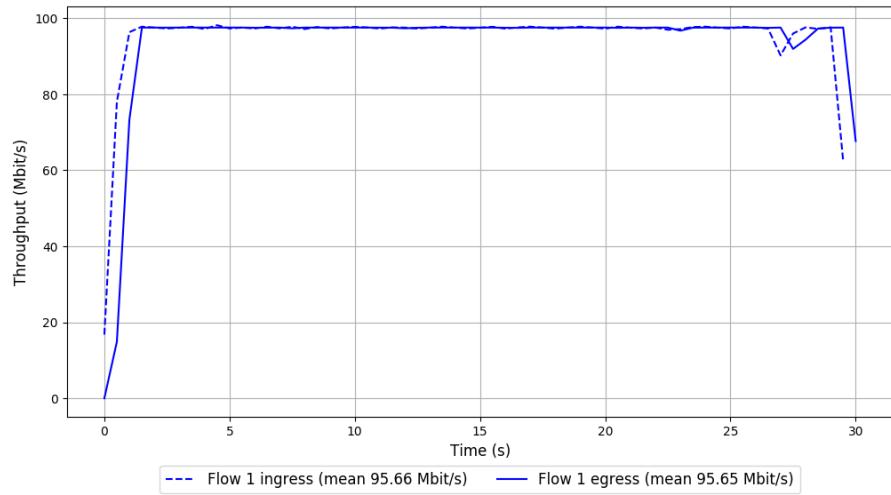


Run 1: Statistics of Indigo

```
Start at: 2019-06-27 19:23:39
End at: 2019-06-27 19:24:09
Local clock offset: -0.124 ms
Remote clock offset: -5.181 ms

# Below is generated by plot.py at 2019-06-27 21:24:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 29.427 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 29.427 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

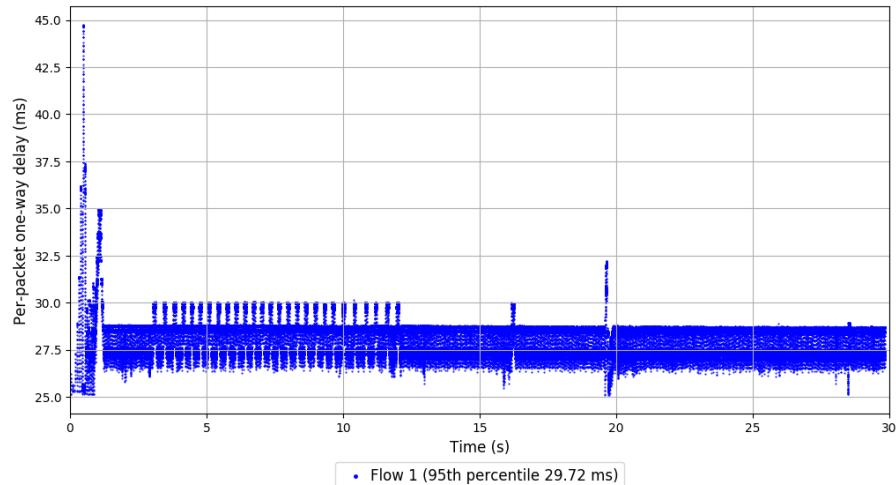
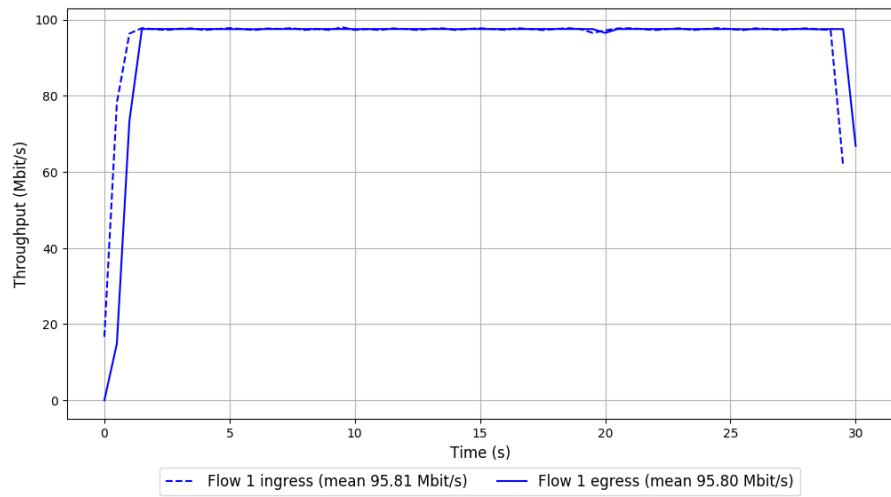


Run 2: Statistics of Indigo

```
Start at: 2019-06-27 19:51:06
End at: 2019-06-27 19:51:36
Local clock offset: -0.925 ms
Remote clock offset: -4.172 ms

# Below is generated by plot.py at 2019-06-27 21:24:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 29.721 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 29.721 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

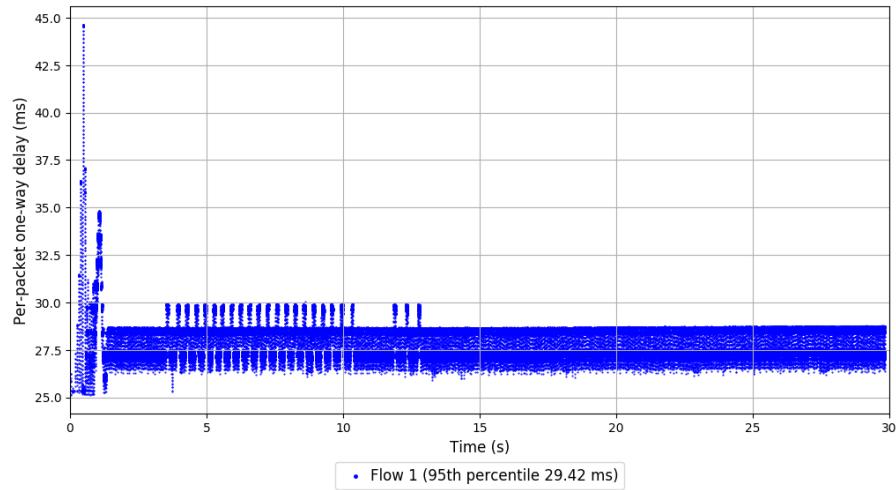
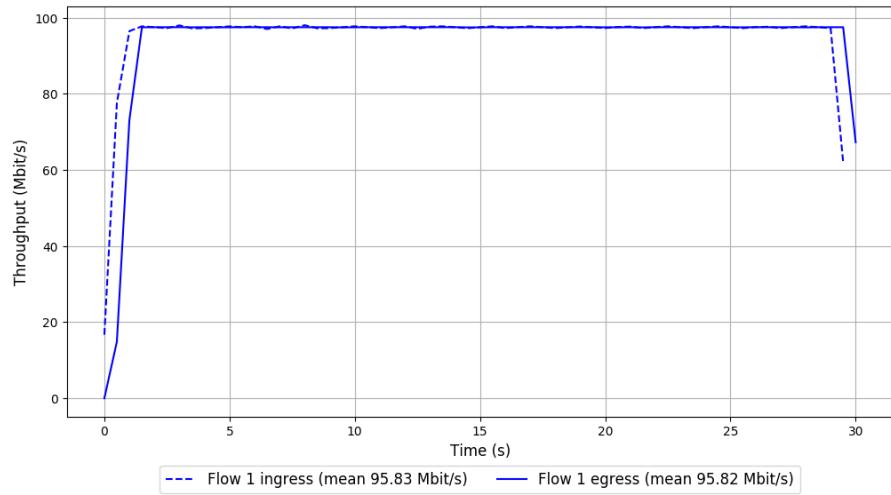


Run 3: Statistics of Indigo

```
Start at: 2019-06-27 20:17:25
End at: 2019-06-27 20:17:55
Local clock offset: -3.202 ms
Remote clock offset: -3.594 ms

# Below is generated by plot.py at 2019-06-27 21:24:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 29.416 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 29.416 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

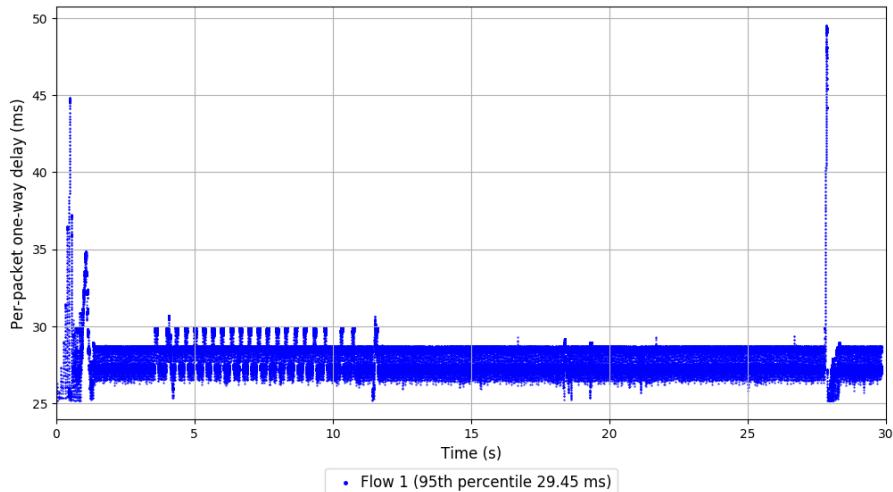
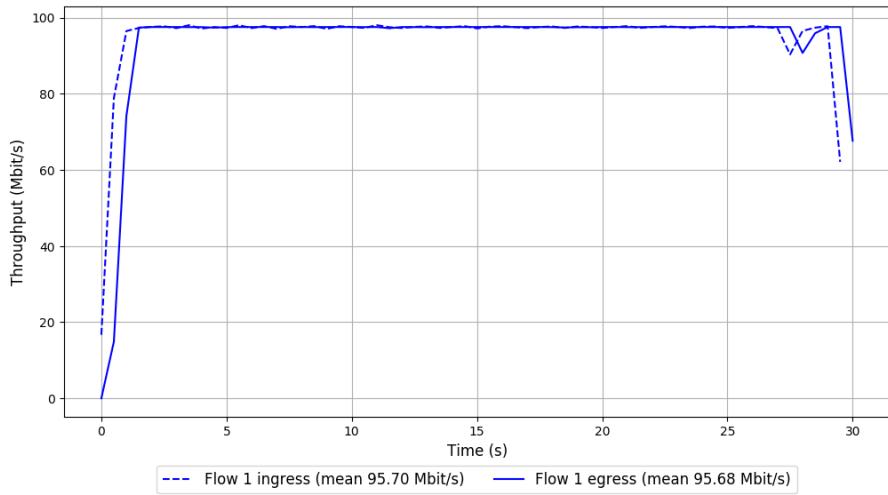


Run 4: Statistics of Indigo

```
Start at: 2019-06-27 20:43:49
End at: 2019-06-27 20:44:19
Local clock offset: 0.268 ms
Remote clock offset: -3.173 ms

# Below is generated by plot.py at 2019-06-27 21:24:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 29.448 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 29.448 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo — Data Link

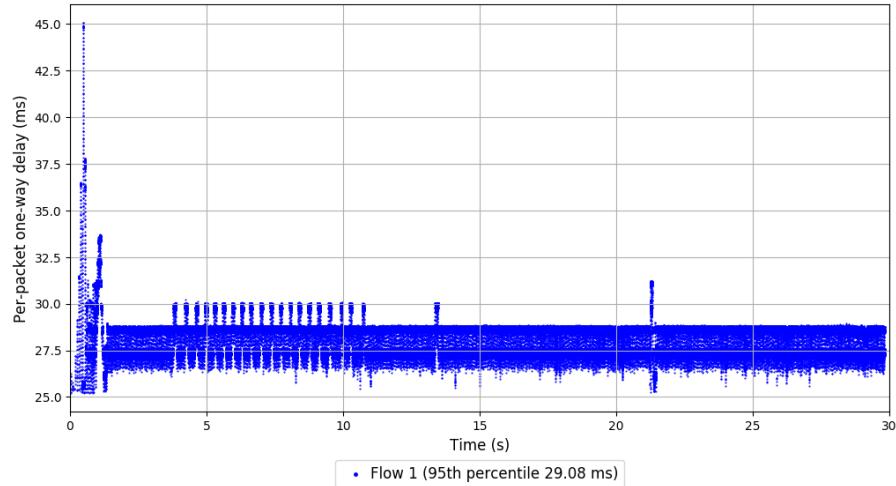
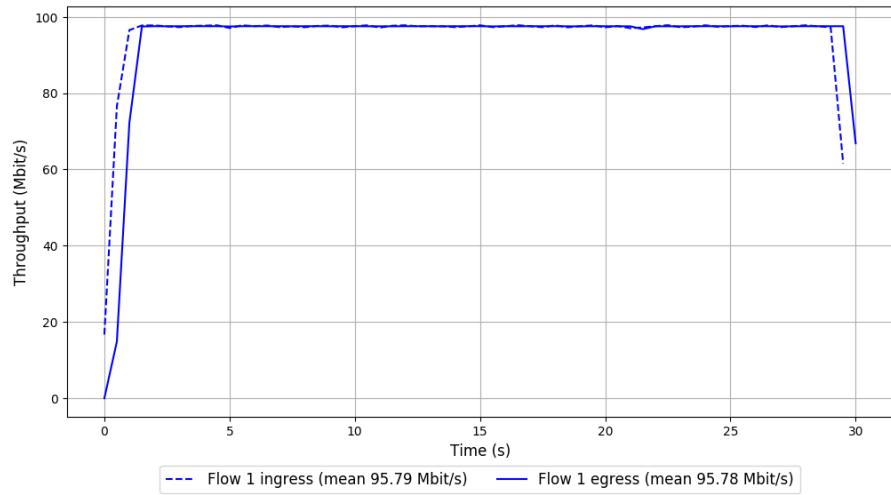


Run 5: Statistics of Indigo

```
Start at: 2019-06-27 21:10:38
End at: 2019-06-27 21:11:08
Local clock offset: 0.302 ms
Remote clock offset: -3.084 ms

# Below is generated by plot.py at 2019-06-27 21:25:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 29.083 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 29.083 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

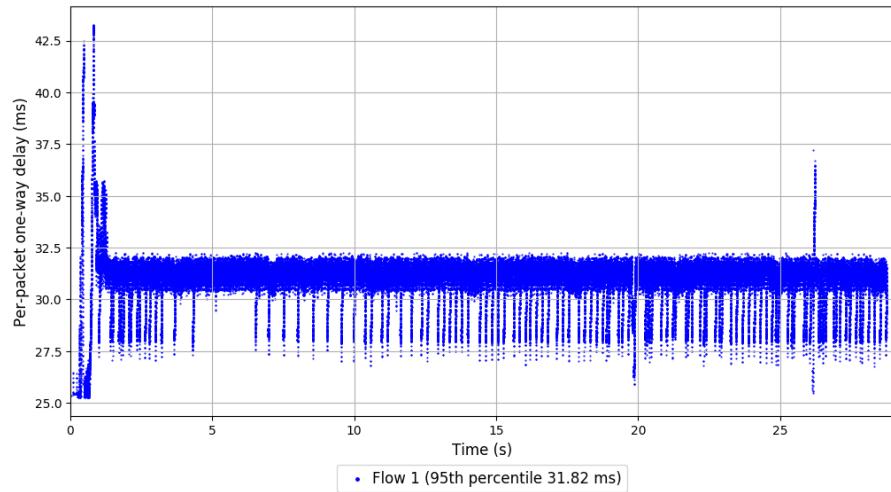
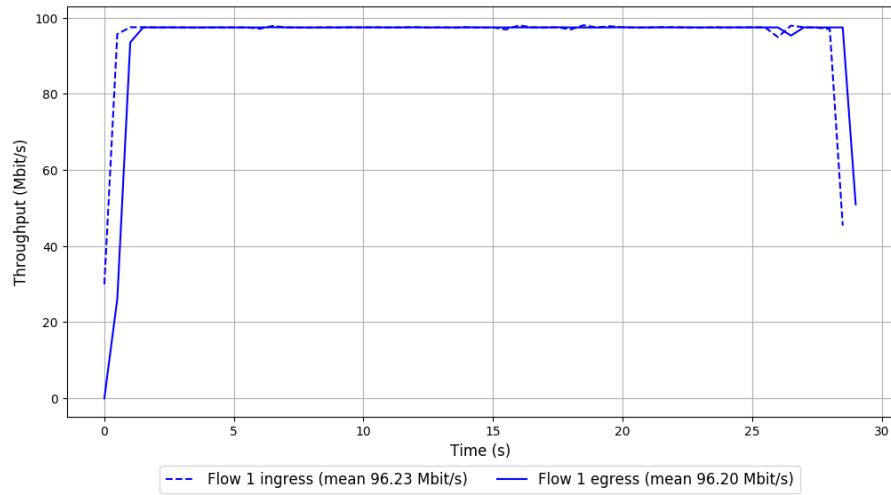


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 19:15:11
End at: 2019-06-27 19:15:41
Local clock offset: -0.166 ms
Remote clock offset: -5.339 ms

# Below is generated by plot.py at 2019-06-27 21:25:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 31.821 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 31.821 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesC3 — Data Link

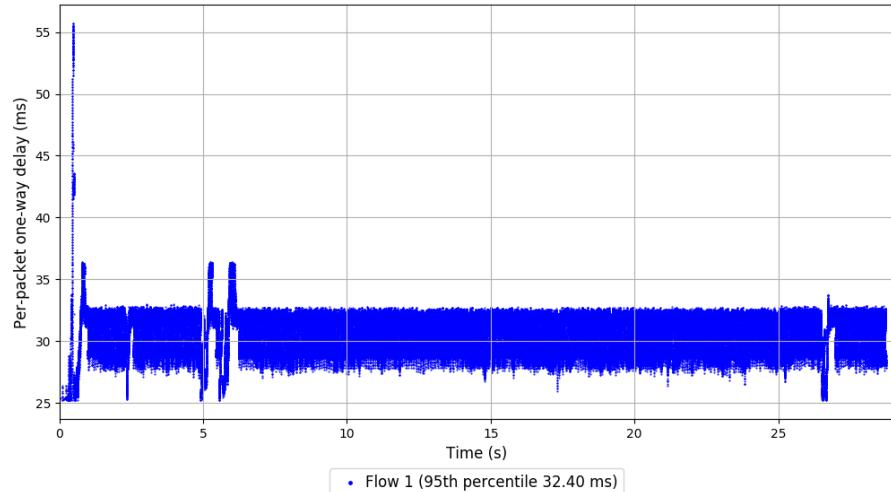
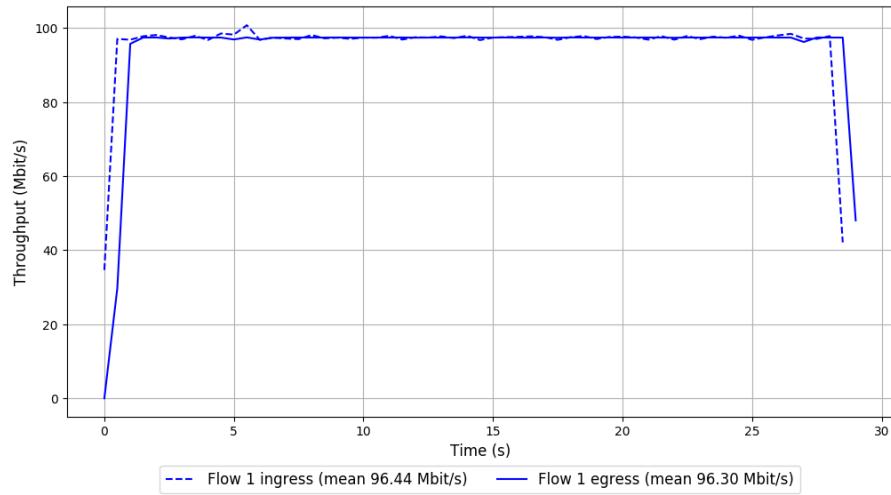


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 19:42:10
End at: 2019-06-27 19:42:40
Local clock offset: -0.139 ms
Remote clock offset: -4.461 ms

# Below is generated by plot.py at 2019-06-27 21:25:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 32.404 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 32.404 ms
Loss rate: 0.14%
```

Run 2: Report of Indigo-MusesC3 — Data Link

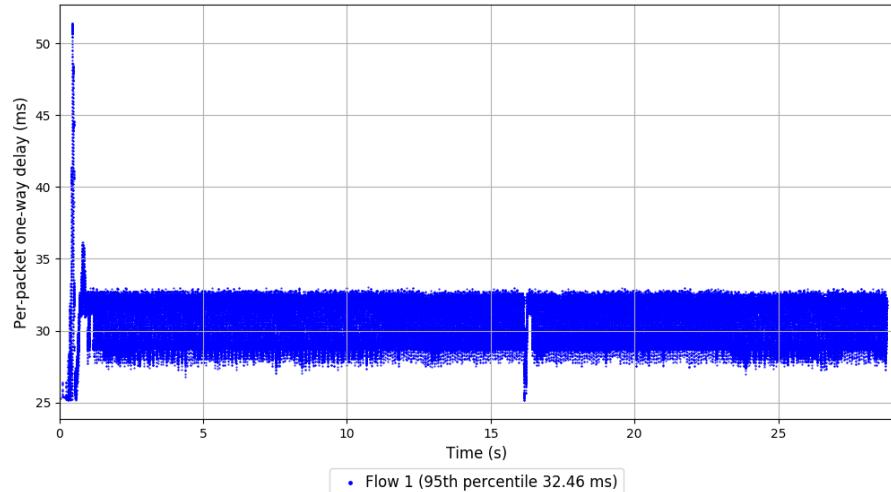
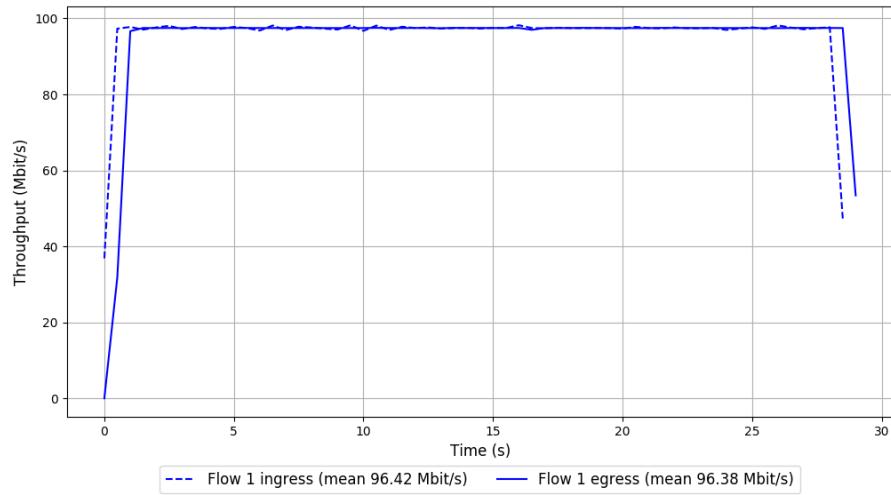


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 20:09:07
End at: 2019-06-27 20:09:37
Local clock offset: -2.824 ms
Remote clock offset: -3.614 ms

# Below is generated by plot.py at 2019-06-27 21:25:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 32.459 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 32.459 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesC3 — Data Link

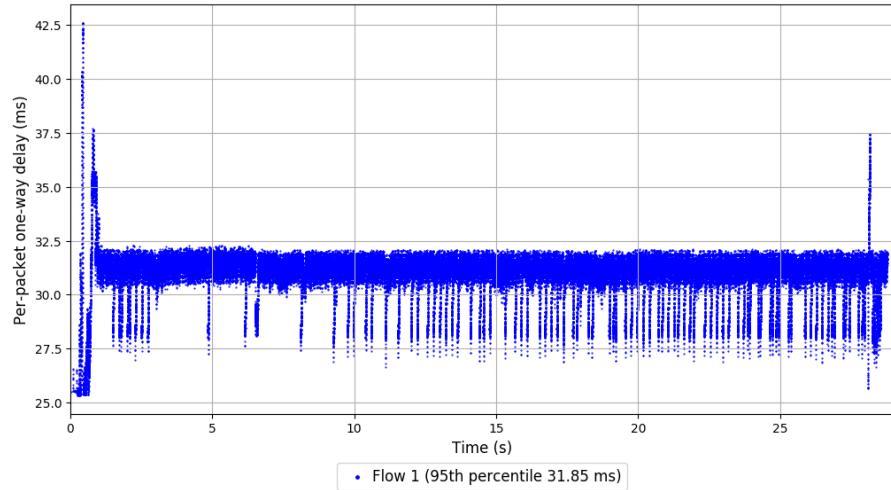
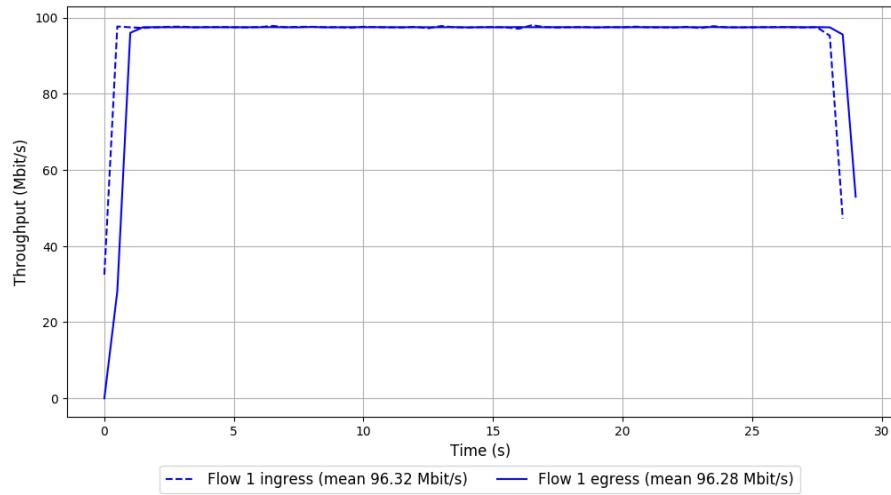


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 20:35:02
End at: 2019-06-27 20:35:32
Local clock offset: -0.128 ms
Remote clock offset: -3.105 ms

# Below is generated by plot.py at 2019-06-27 21:25:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 31.853 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 31.853 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC3 — Data Link

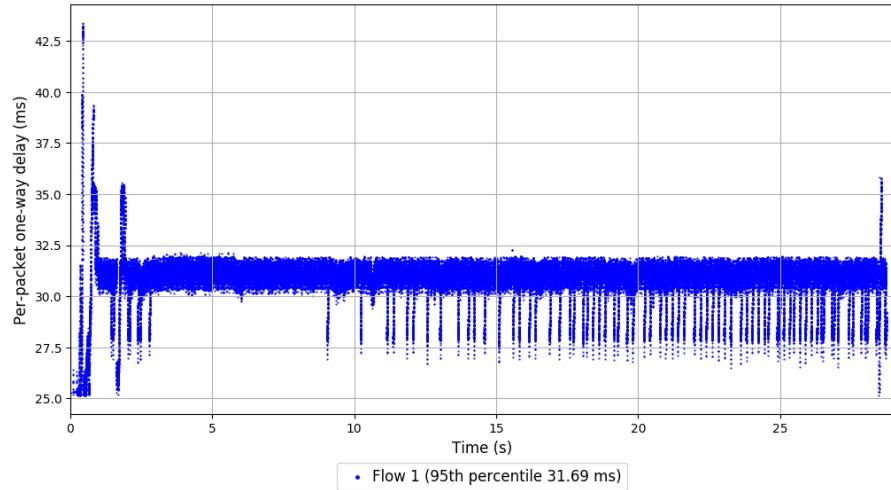
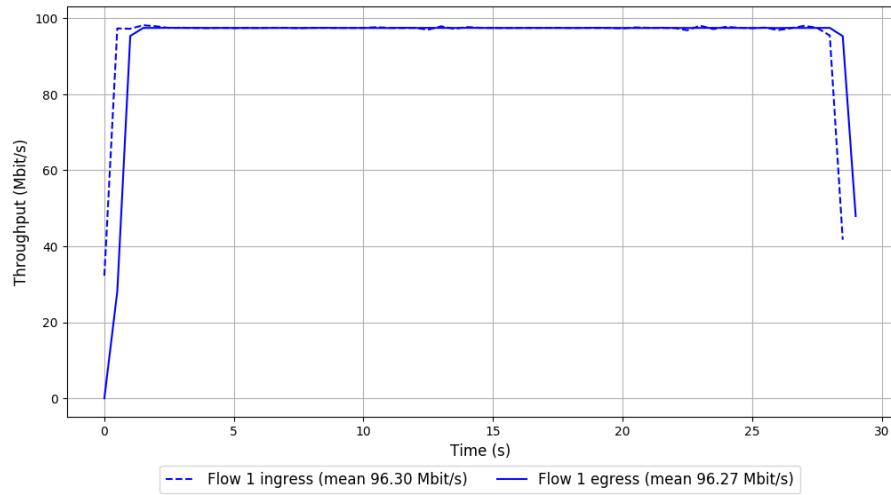


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 21:01:50
End at: 2019-06-27 21:02:20
Local clock offset: 0.253 ms
Remote clock offset: -3.078 ms

# Below is generated by plot.py at 2019-06-27 21:25:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 31.689 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 31.689 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesC3 — Data Link

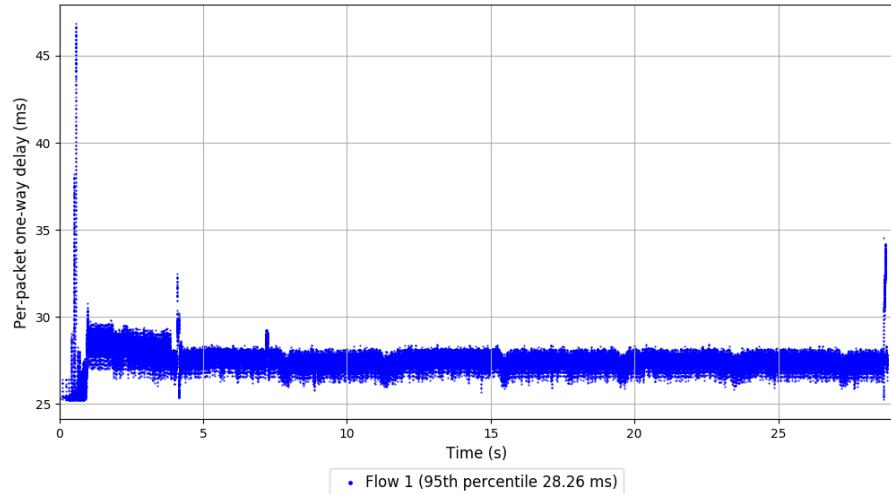
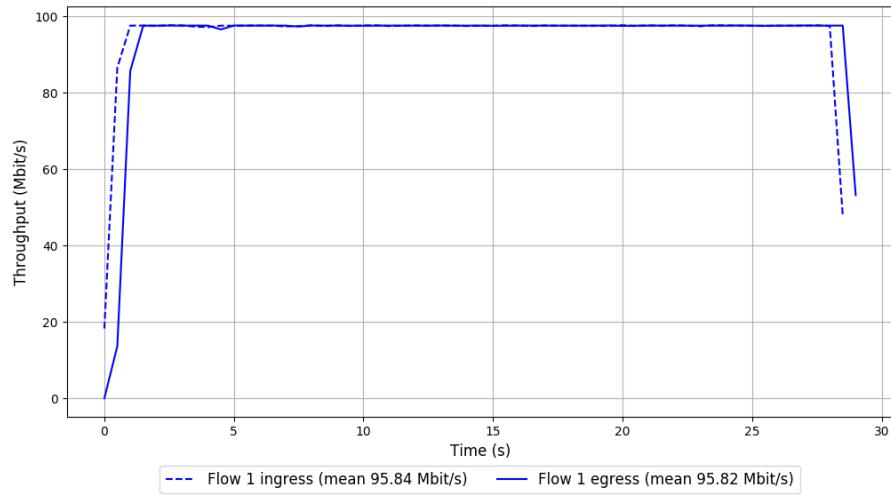


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 19:19:56
End at: 2019-06-27 19:20:26
Local clock offset: -0.195 ms
Remote clock offset: -5.319 ms

# Below is generated by plot.py at 2019-06-27 21:25:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 28.259 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 28.259 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesC5 — Data Link

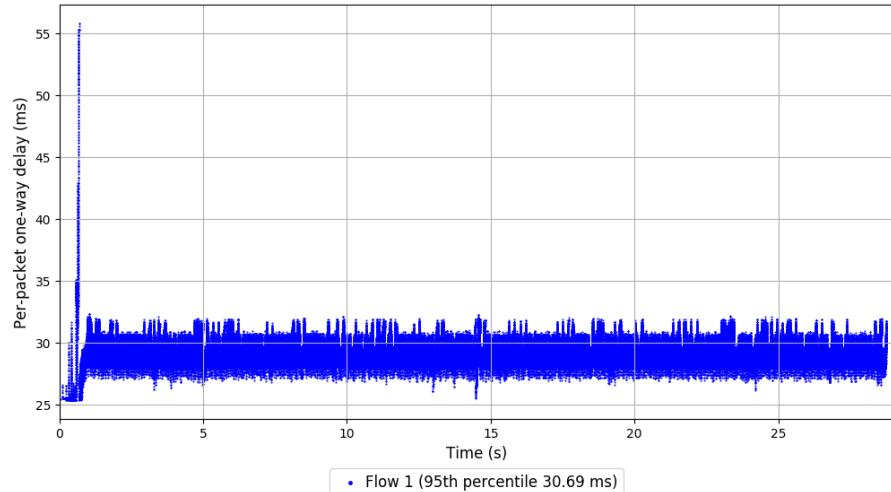
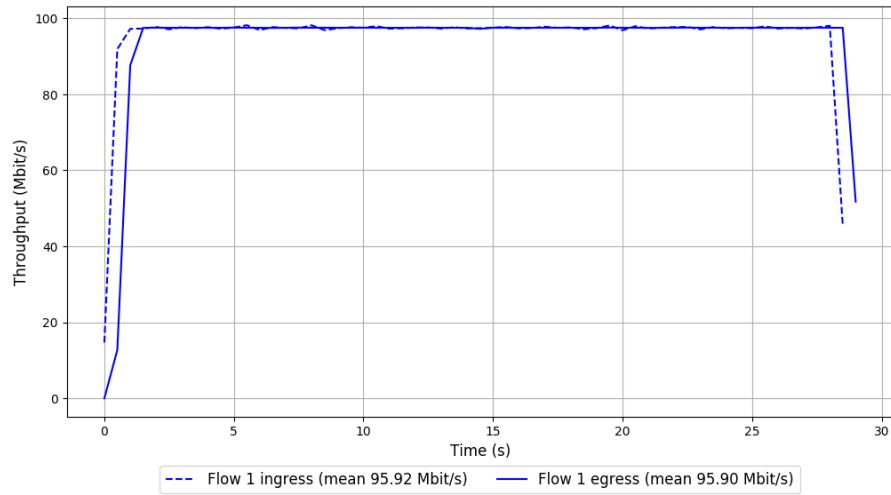


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 19:47:20
End at: 2019-06-27 19:47:50
Local clock offset: -0.211 ms
Remote clock offset: -4.168 ms

# Below is generated by plot.py at 2019-06-27 21:25:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 30.691 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 30.691 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC5 — Data Link

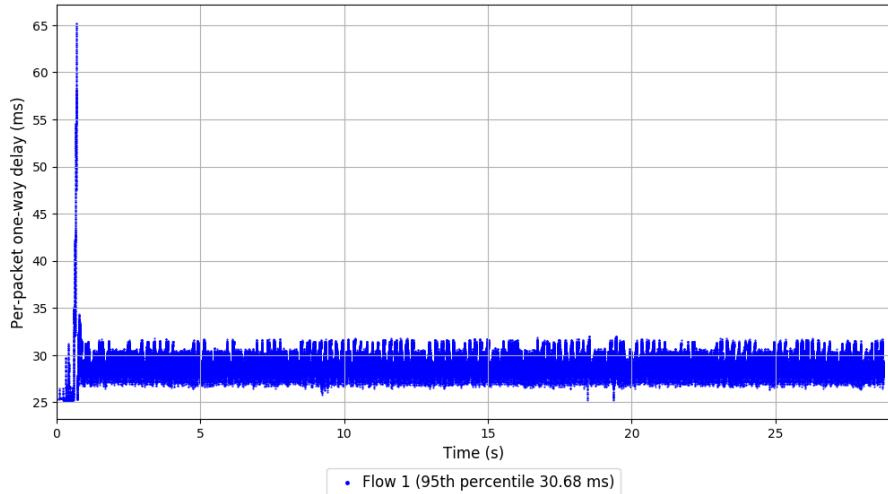
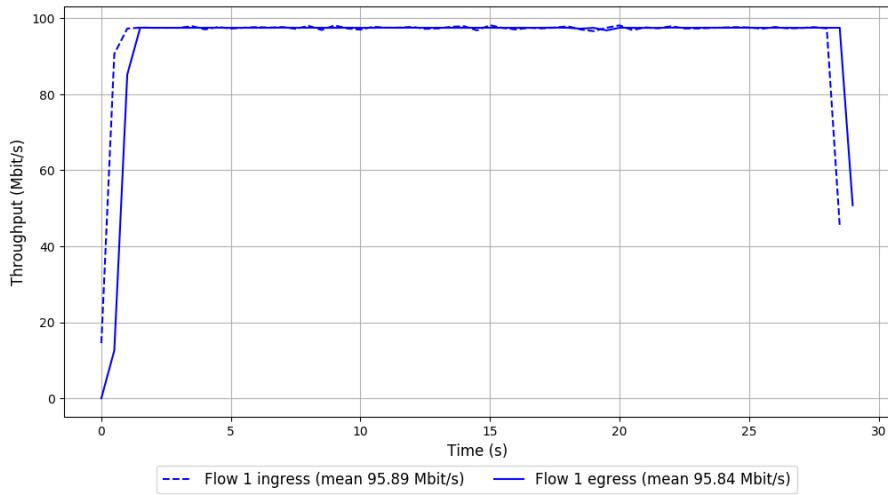


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 20:13:50
End at: 2019-06-27 20:14:20
Local clock offset: -3.067 ms
Remote clock offset: -3.609 ms

# Below is generated by plot.py at 2019-06-27 21:26:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 30.677 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 30.677 ms
Loss rate: 0.03%
```

Run 3: Report of Indigo-MusesC5 — Data Link

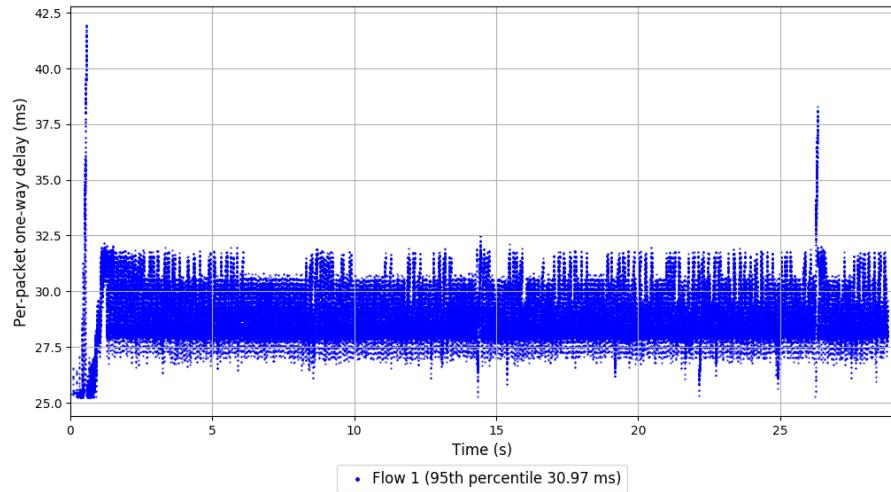
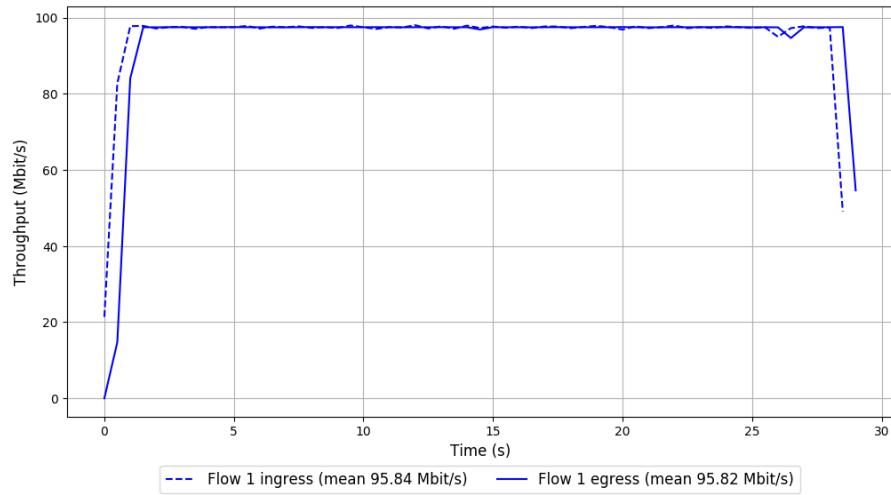


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 20:39:54
End at: 2019-06-27 20:40:24
Local clock offset: 0.143 ms
Remote clock offset: -3.194 ms

# Below is generated by plot.py at 2019-06-27 21:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 30.971 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 30.971 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC5 — Data Link

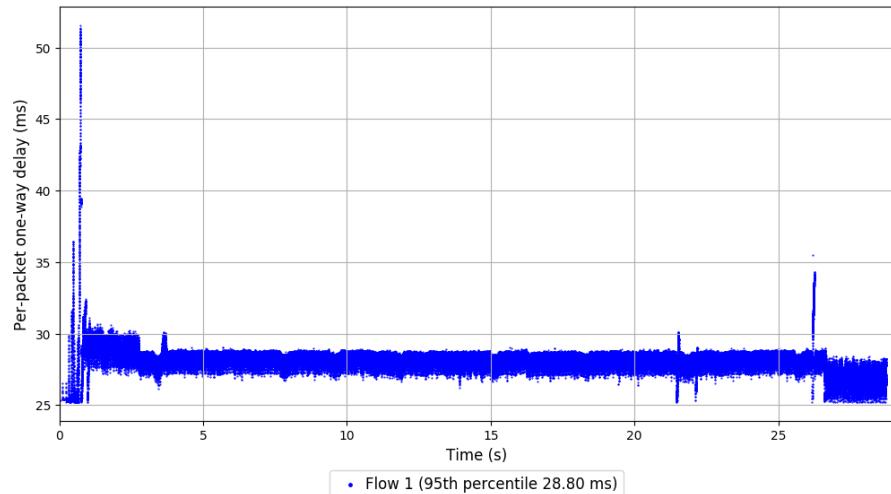
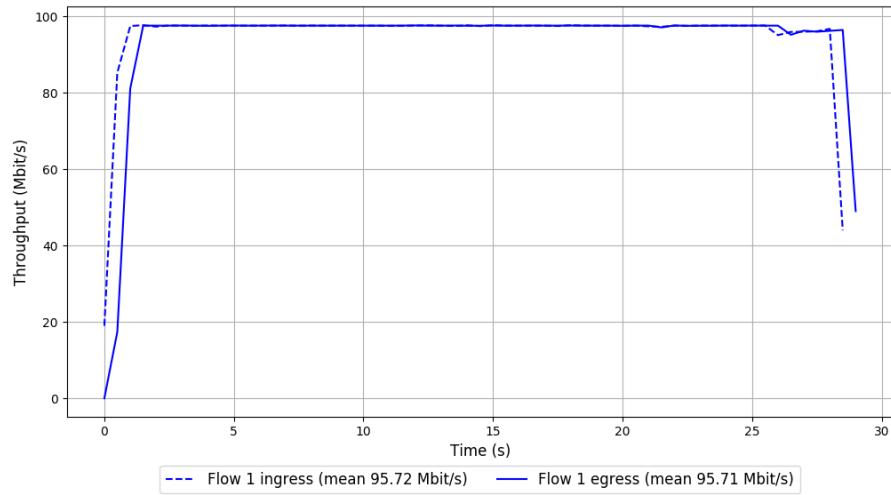


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 21:06:50
End at: 2019-06-27 21:07:20
Local clock offset: 0.284 ms
Remote clock offset: -3.101 ms

# Below is generated by plot.py at 2019-06-27 21:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 28.800 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 28.800 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesC5 — Data Link

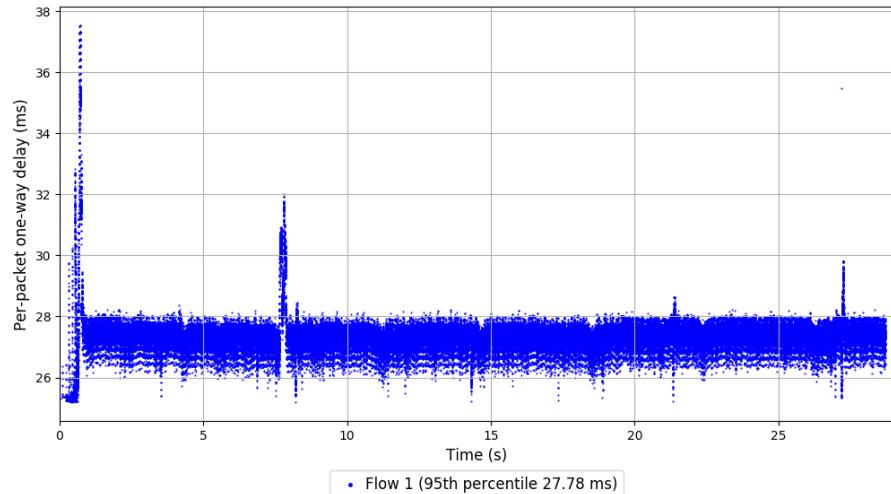
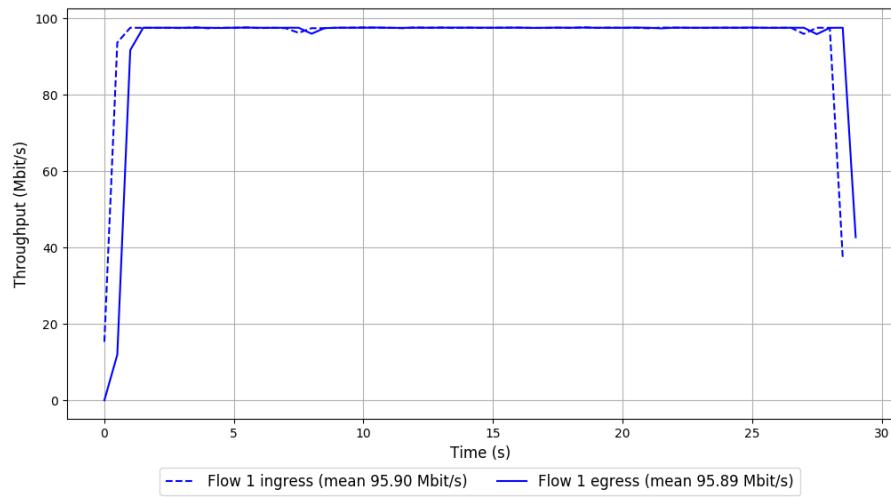


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 19:05:56
End at: 2019-06-27 19:06:26
Local clock offset: 0.359 ms
Remote clock offset: -5.51 ms

# Below is generated by plot.py at 2019-06-27 21:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 27.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 27.783 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link

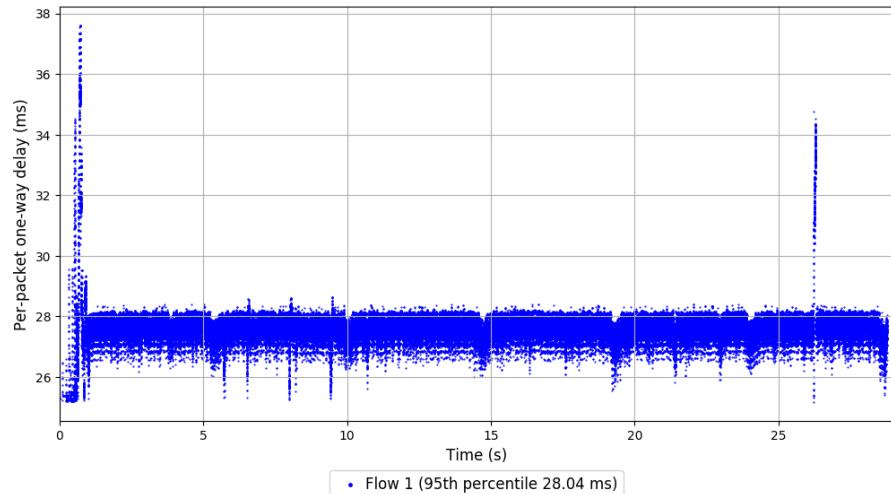
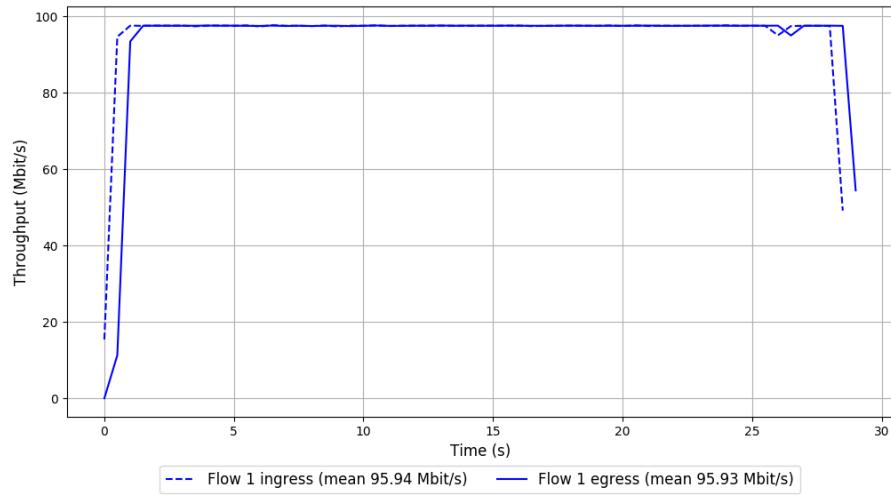


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 19:32:31
End at: 2019-06-27 19:33:01
Local clock offset: -0.092 ms
Remote clock offset: -4.781 ms

# Below is generated by plot.py at 2019-06-27 21:26:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 28.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 28.044 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesD — Data Link

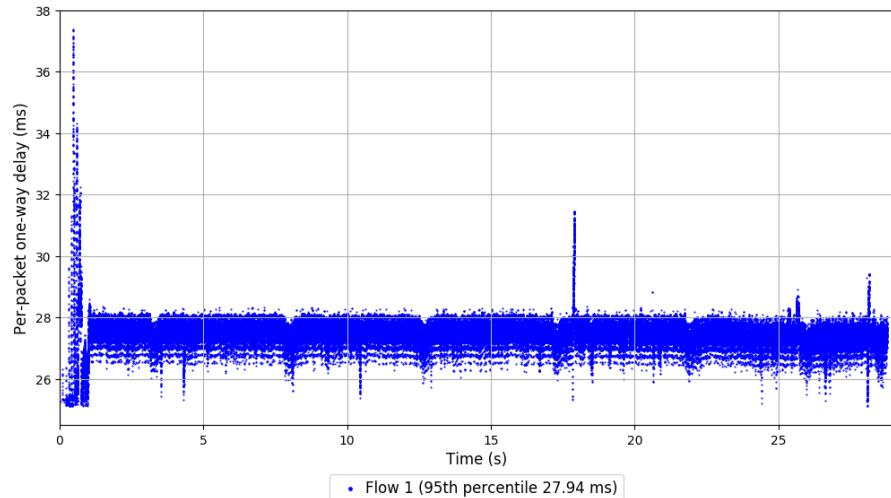
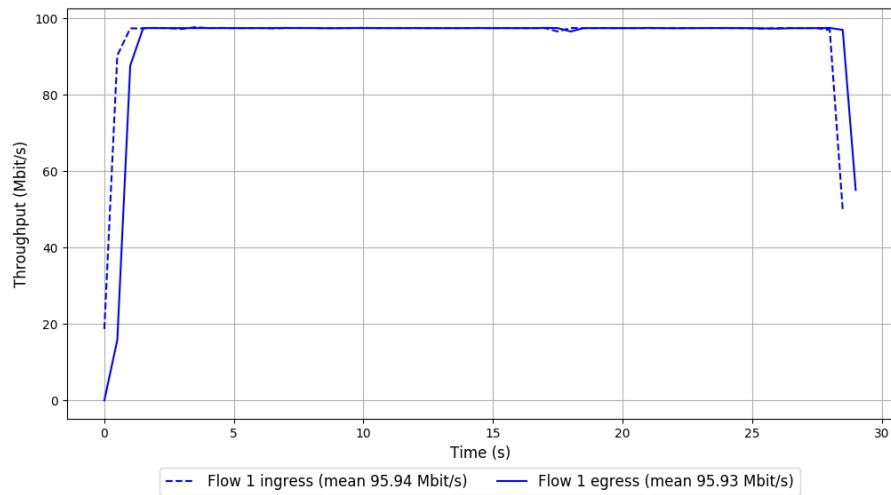


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 19:59:34
End at: 2019-06-27 20:00:04
Local clock offset: -2.045 ms
Remote clock offset: -3.787 ms

# Below is generated by plot.py at 2019-06-27 21:26:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 27.939 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 27.939 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesD — Data Link

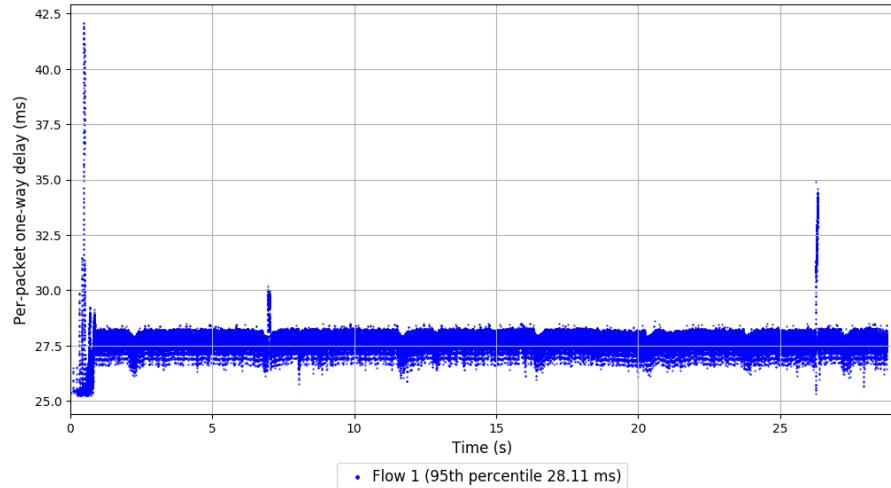
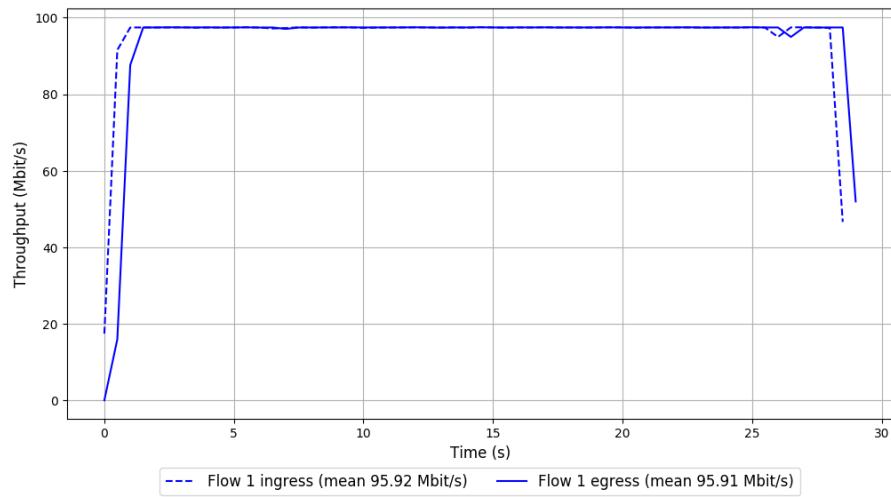


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 20:25:42
End at: 2019-06-27 20:26:12
Local clock offset: -1.138 ms
Remote clock offset: -3.375 ms

# Below is generated by plot.py at 2019-06-27 21:26:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 28.106 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 28.106 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesD — Data Link

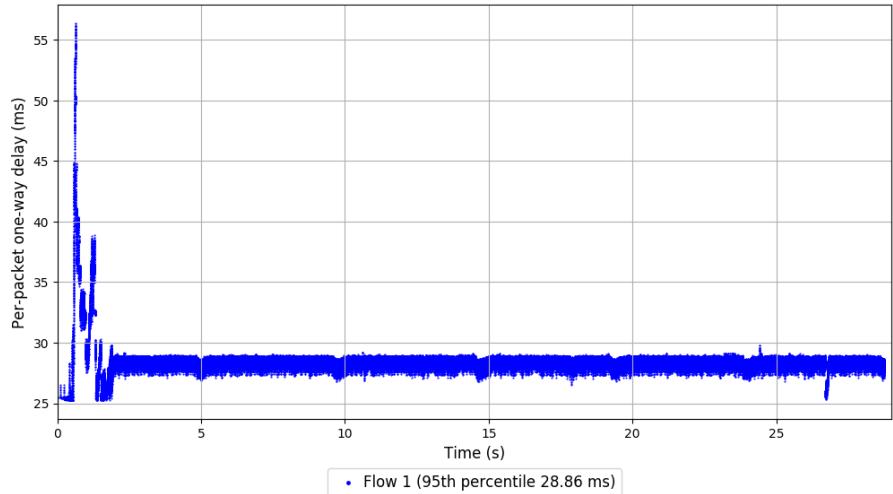
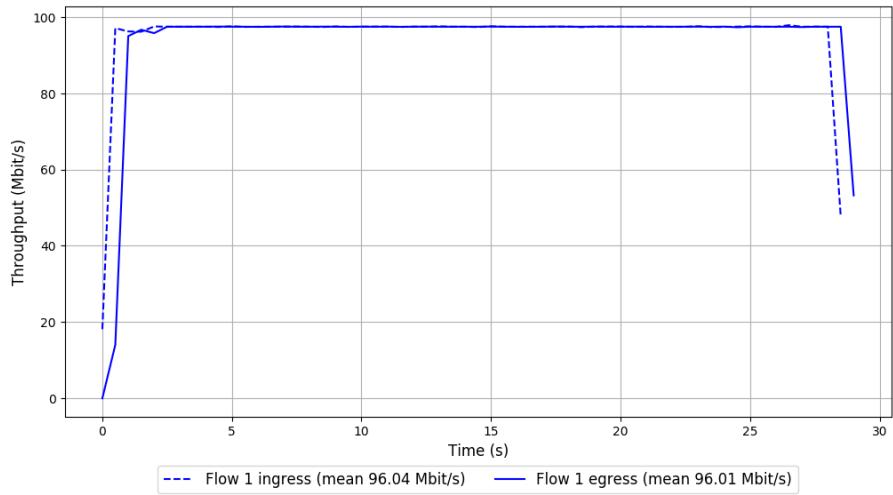


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 20:52:26
End at: 2019-06-27 20:52:56
Local clock offset: 0.301 ms
Remote clock offset: -2.995 ms

# Below is generated by plot.py at 2019-06-27 21:26:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 28.859 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 28.859 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesD — Data Link

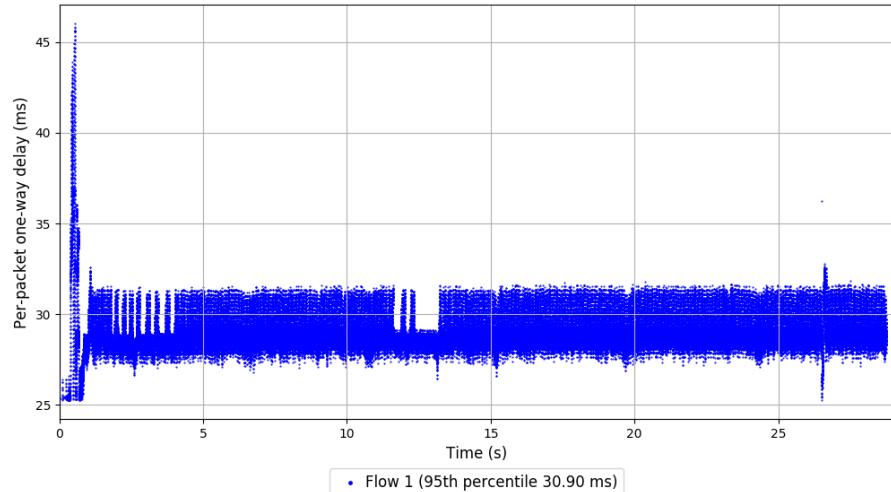
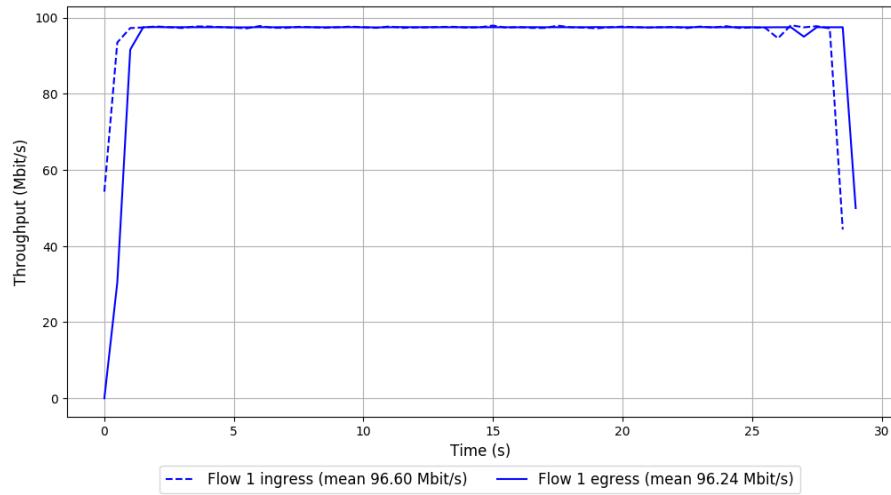


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 19:21:09
End at: 2019-06-27 19:21:39
Local clock offset: -0.158 ms
Remote clock offset: -5.254 ms

# Below is generated by plot.py at 2019-06-27 21:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 30.902 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 30.902 ms
Loss rate: 0.36%
```

Run 1: Report of Indigo-MusesT — Data Link

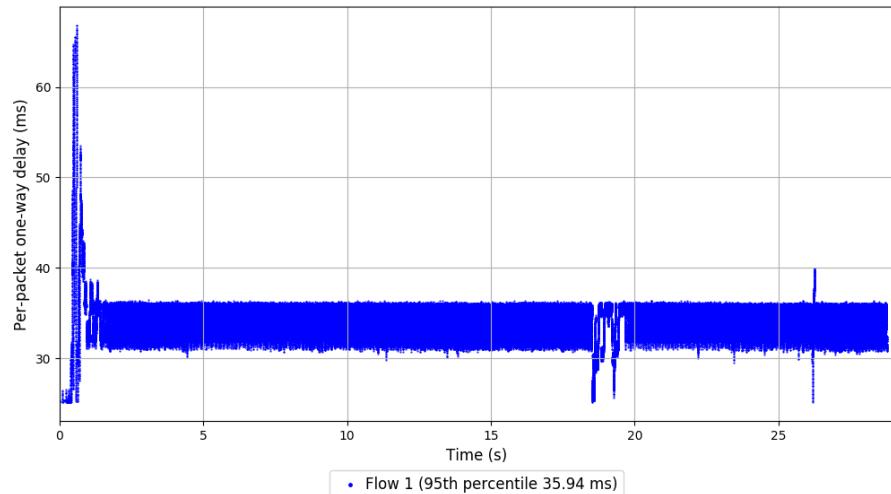
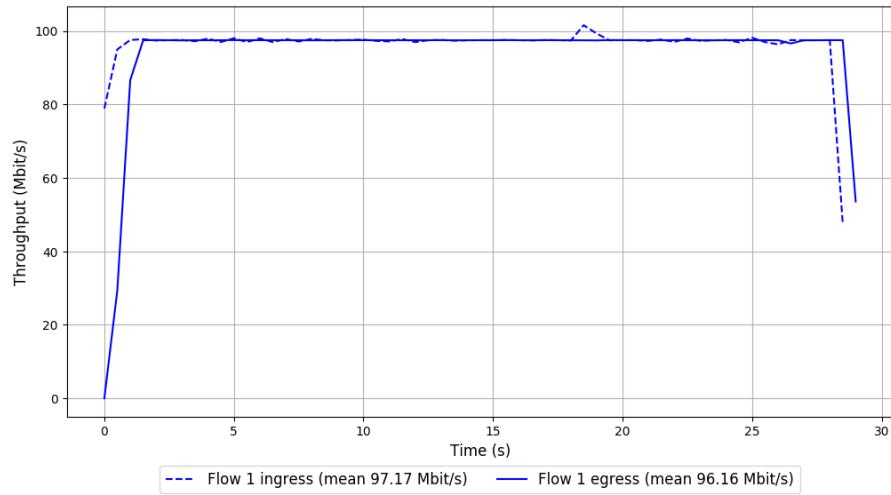


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 19:48:35
End at: 2019-06-27 19:49:06
Local clock offset: -0.316 ms
Remote clock offset: -4.266 ms

# Below is generated by plot.py at 2019-06-27 21:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 35.941 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 35.941 ms
Loss rate: 1.02%
```

Run 2: Report of Indigo-MusesT — Data Link

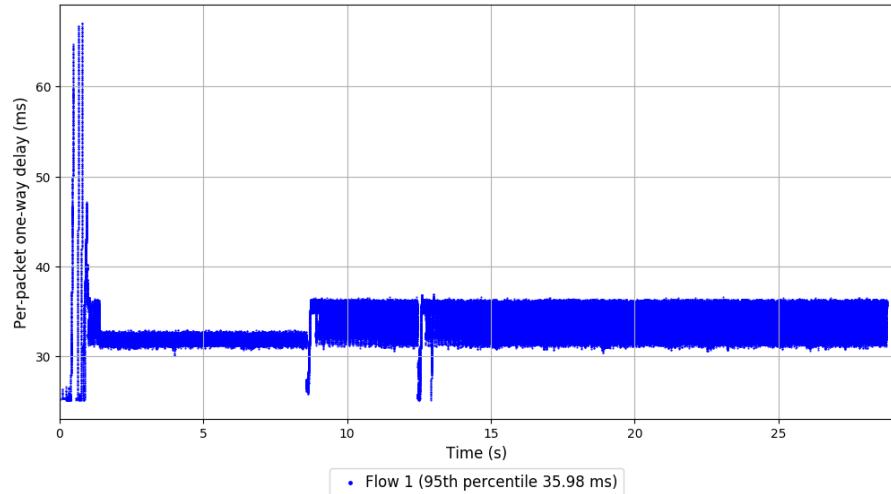
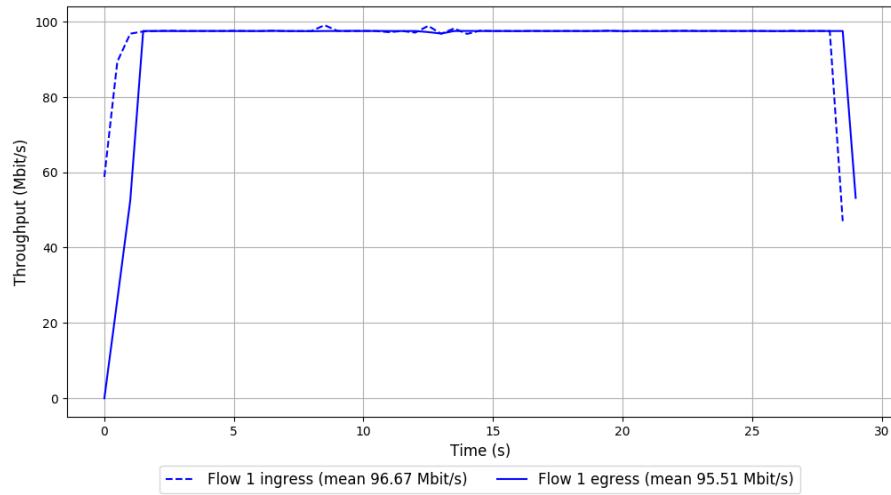


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 20:15:01
End at: 2019-06-27 20:15:31
Local clock offset: -3.119 ms
Remote clock offset: -3.581 ms

# Below is generated by plot.py at 2019-06-27 21:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 35.985 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 35.985 ms
Loss rate: 1.17%
```

Run 3: Report of Indigo-MusesT — Data Link

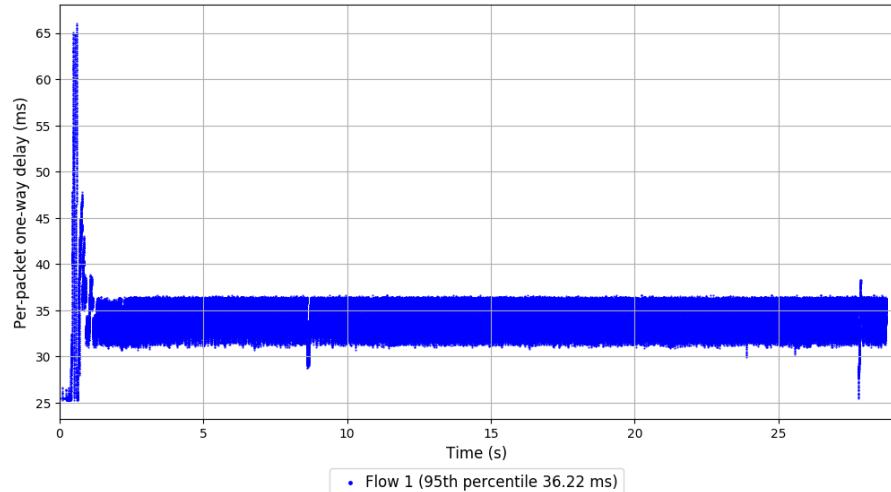
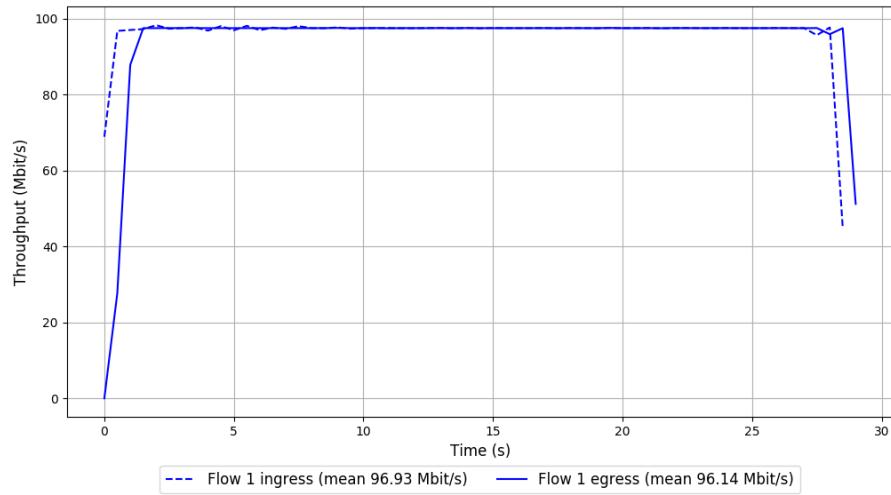


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 20:41:14
End at: 2019-06-27 20:41:44
Local clock offset: 0.154 ms
Remote clock offset: -3.146 ms

# Below is generated by plot.py at 2019-06-27 21:27:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.14 Mbit/s
95th percentile per-packet one-way delay: 36.216 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 96.14 Mbit/s
95th percentile per-packet one-way delay: 36.216 ms
Loss rate: 0.78%
```

Run 4: Report of Indigo-MusesT — Data Link

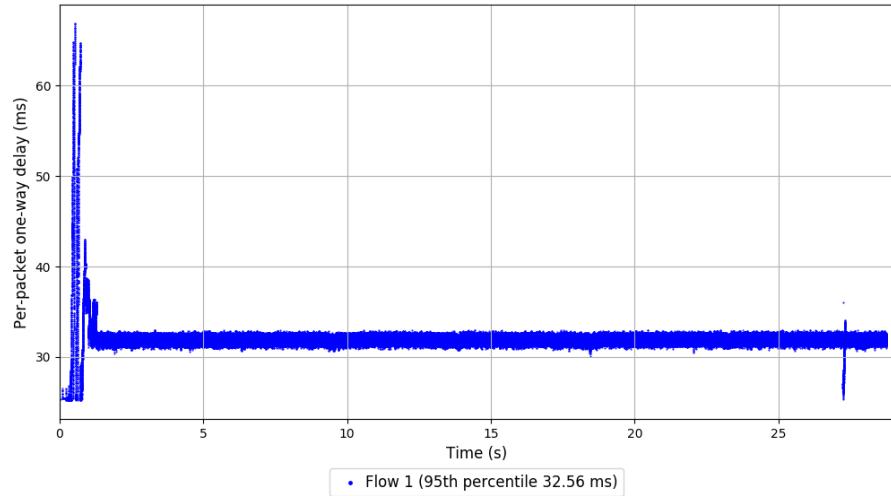
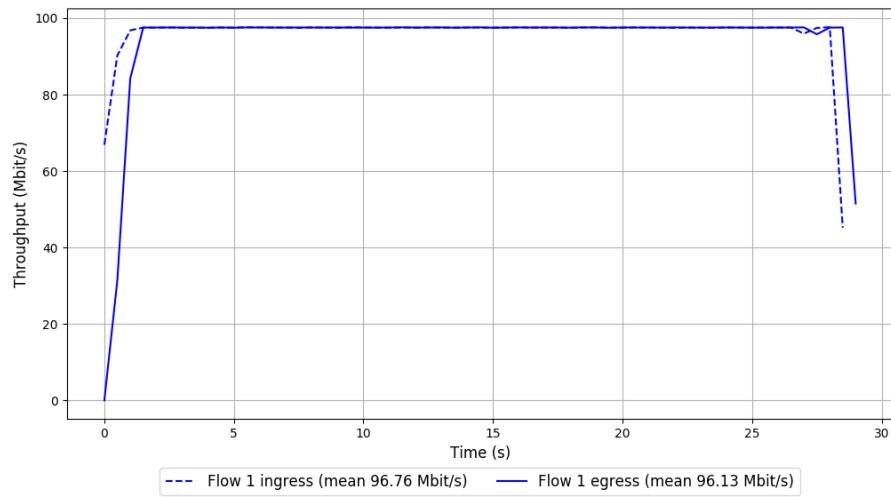


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 21:08:06
End at: 2019-06-27 21:08:36
Local clock offset: 0.277 ms
Remote clock offset: -3.083 ms

# Below is generated by plot.py at 2019-06-27 21:27:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 32.556 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 32.556 ms
Loss rate: 0.62%
```

Run 5: Report of Indigo-MusesT — Data Link

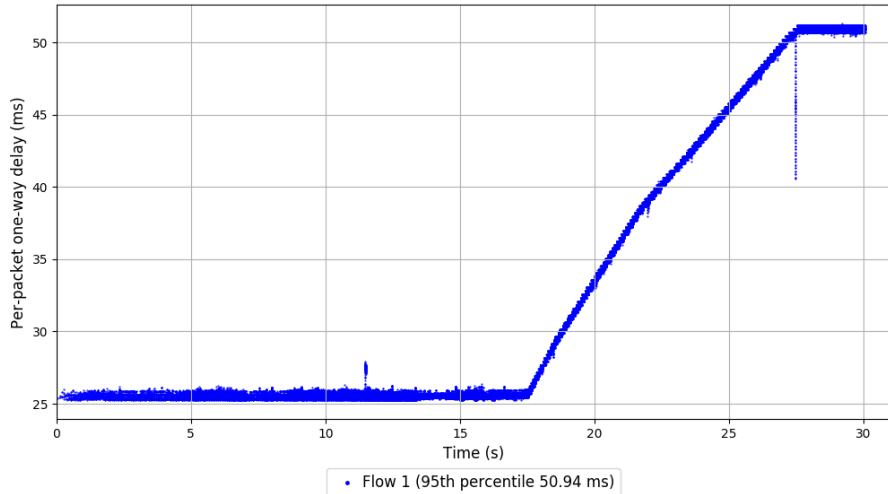
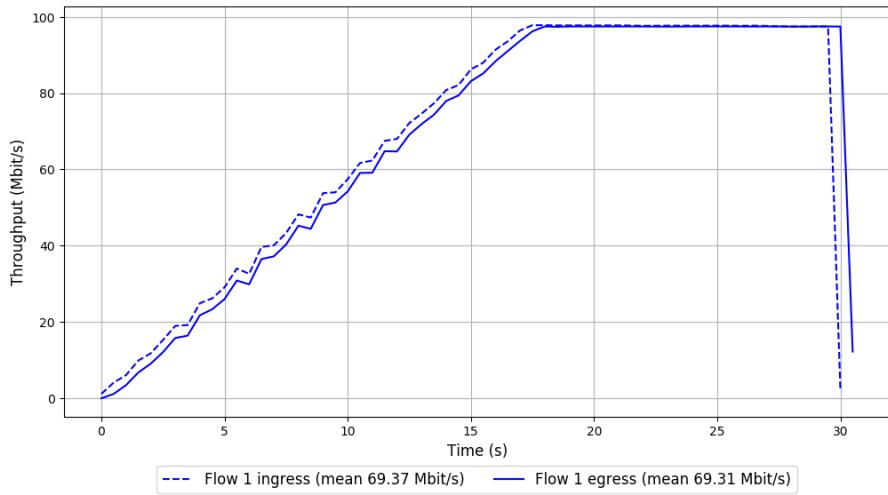


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-06-27 19:16:23
End at: 2019-06-27 19:16:53
Local clock offset: -0.192 ms
Remote clock offset: -5.348 ms

# Below is generated by plot.py at 2019-06-27 21:27:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.31 Mbit/s
95th percentile per-packet one-way delay: 50.935 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.31 Mbit/s
95th percentile per-packet one-way delay: 50.935 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

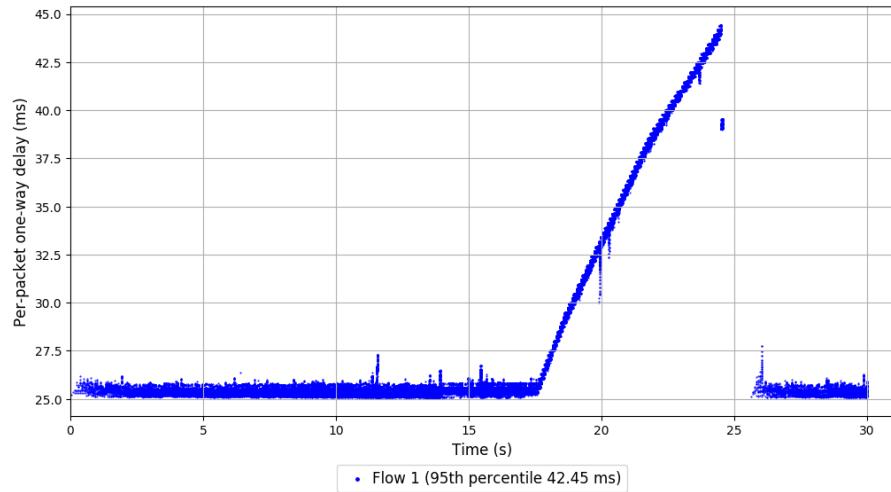
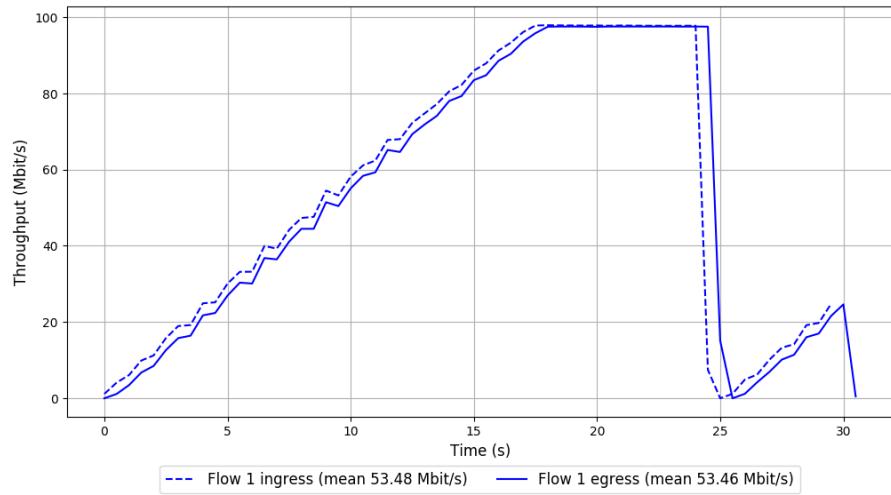


Run 2: Statistics of LEDBAT

```
Start at: 2019-06-27 19:43:32
End at: 2019-06-27 19:44:02
Local clock offset: -0.123 ms
Remote clock offset: -4.448 ms

# Below is generated by plot.py at 2019-06-27 21:27:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.46 Mbit/s
95th percentile per-packet one-way delay: 42.449 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 53.46 Mbit/s
95th percentile per-packet one-way delay: 42.449 ms
Loss rate: 0.03%
```

Run 2: Report of LEDBAT — Data Link

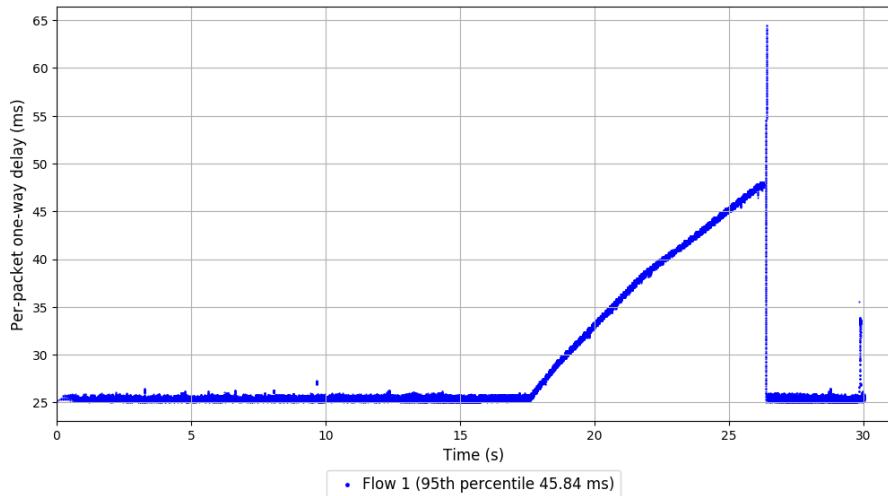
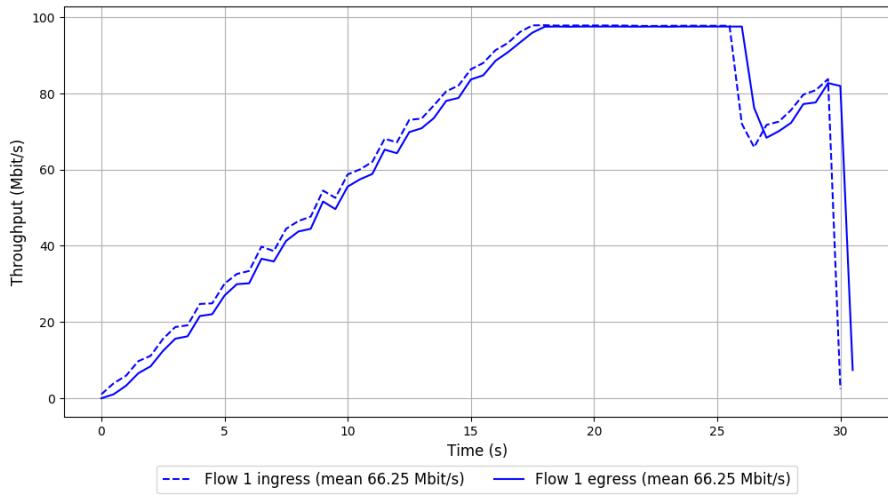


Run 3: Statistics of LEDBAT

```
Start at: 2019-06-27 20:10:19
End at: 2019-06-27 20:10:49
Local clock offset: -2.86 ms
Remote clock offset: -3.652 ms

# Below is generated by plot.py at 2019-06-27 21:27:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.25 Mbit/s
95th percentile per-packet one-way delay: 45.845 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.25 Mbit/s
95th percentile per-packet one-way delay: 45.845 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

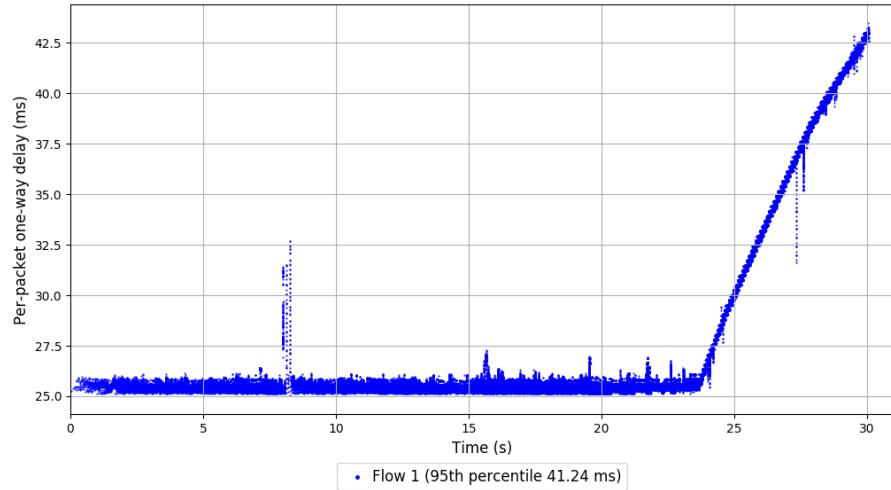
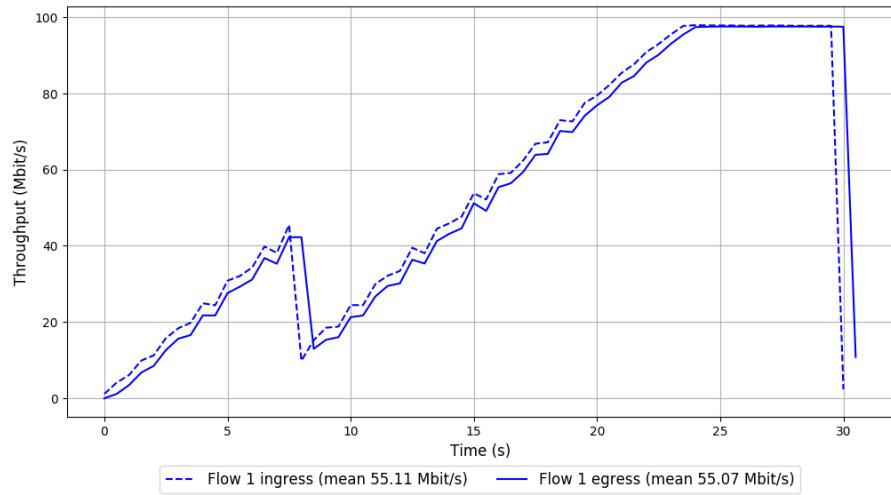


Run 4: Statistics of LEDBAT

```
Start at: 2019-06-27 20:36:17
End at: 2019-06-27 20:36:47
Local clock offset: -0.013 ms
Remote clock offset: -3.293 ms

# Below is generated by plot.py at 2019-06-27 21:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.07 Mbit/s
95th percentile per-packet one-way delay: 41.243 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 55.07 Mbit/s
95th percentile per-packet one-way delay: 41.243 ms
Loss rate: 0.01%
```

Run 4: Report of LEDBAT — Data Link

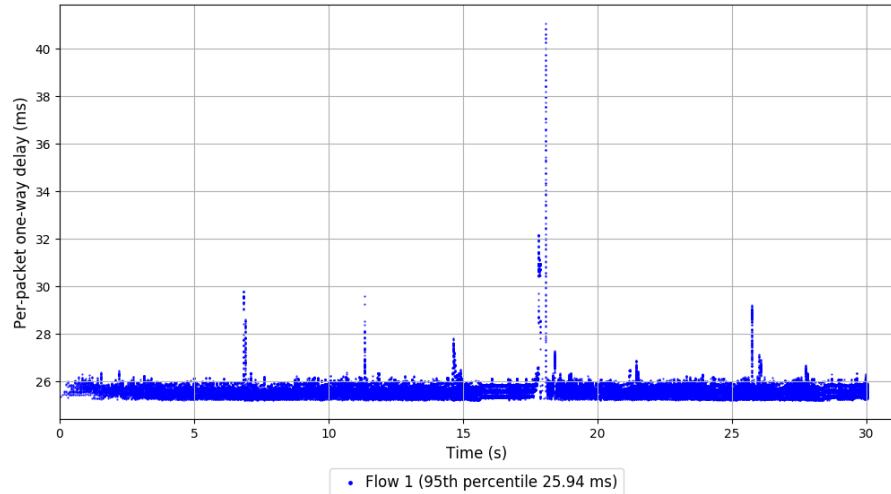
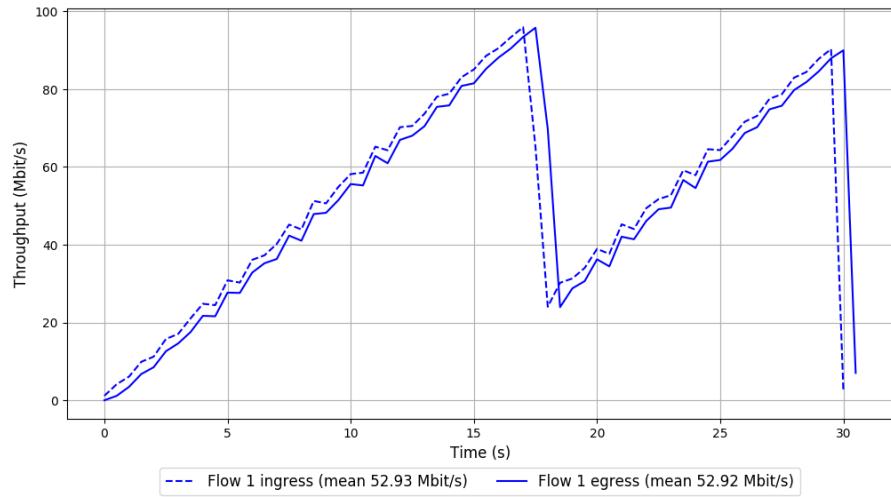


Run 5: Statistics of LEDBAT

```
Start at: 2019-06-27 21:03:11
End at: 2019-06-27 21:03:41
Local clock offset: 0.294 ms
Remote clock offset: -3.042 ms

# Below is generated by plot.py at 2019-06-27 21:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.92 Mbit/s
95th percentile per-packet one-way delay: 25.939 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 52.92 Mbit/s
95th percentile per-packet one-way delay: 25.939 ms
Loss rate: 0.01%
```

Run 5: Report of LEDBAT — Data Link

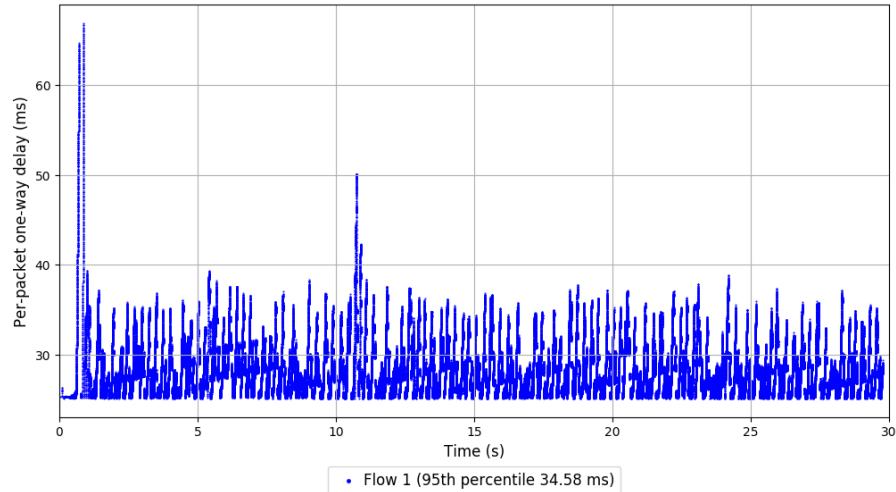
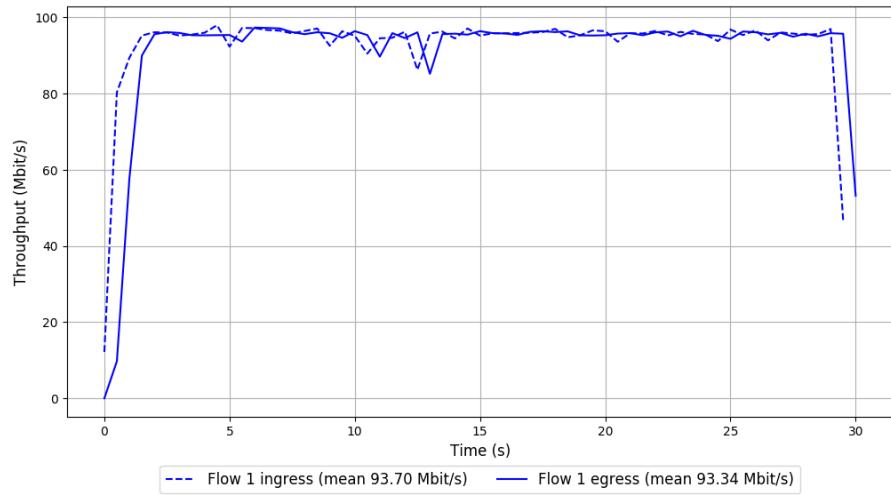


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-06-27 19:10:36
End at: 2019-06-27 19:11:06
Local clock offset: 0.081 ms
Remote clock offset: -5.406 ms

# Below is generated by plot.py at 2019-06-27 21:28:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 34.577 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 34.577 ms
Loss rate: 0.37%
```

Run 1: Report of Muses_DecisionTree — Data Link

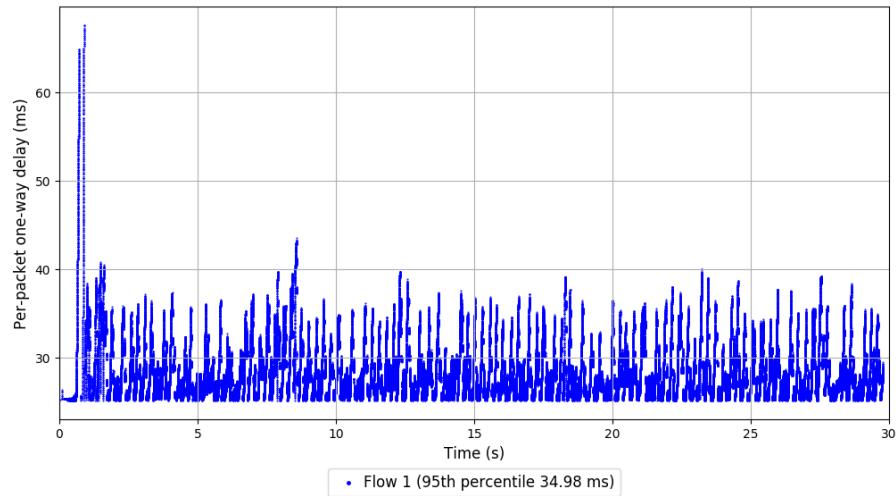
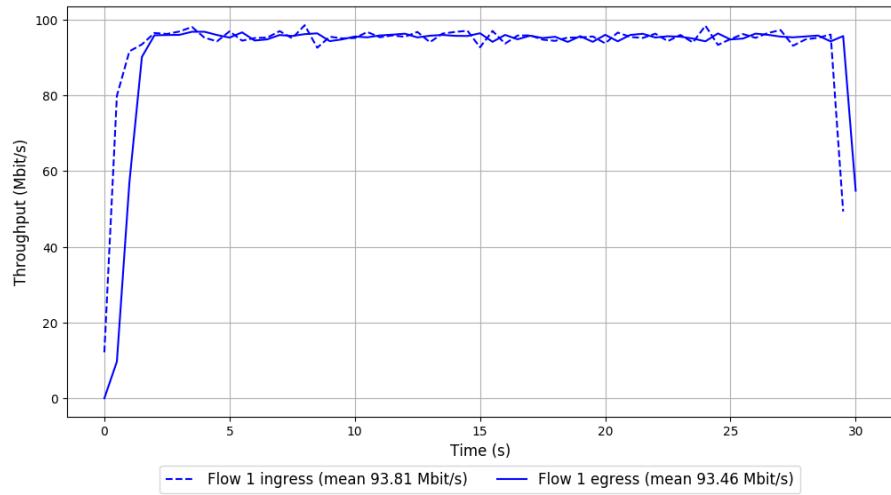


```
Run 2: Statistics of Muses\_DecisionTree
```

```
Start at: 2019-06-27 19:37:27
End at: 2019-06-27 19:37:57
Local clock offset: -0.122 ms
Remote clock offset: -4.586 ms

# Below is generated by plot.py at 2019-06-27 21:28:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 34.978 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 34.978 ms
Loss rate: 0.36%
```

Run 2: Report of Muses_DecisionTree — Data Link

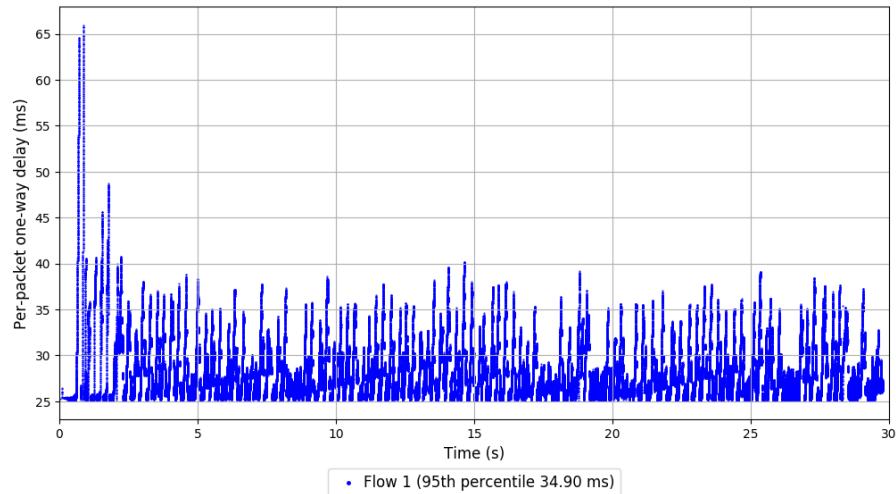
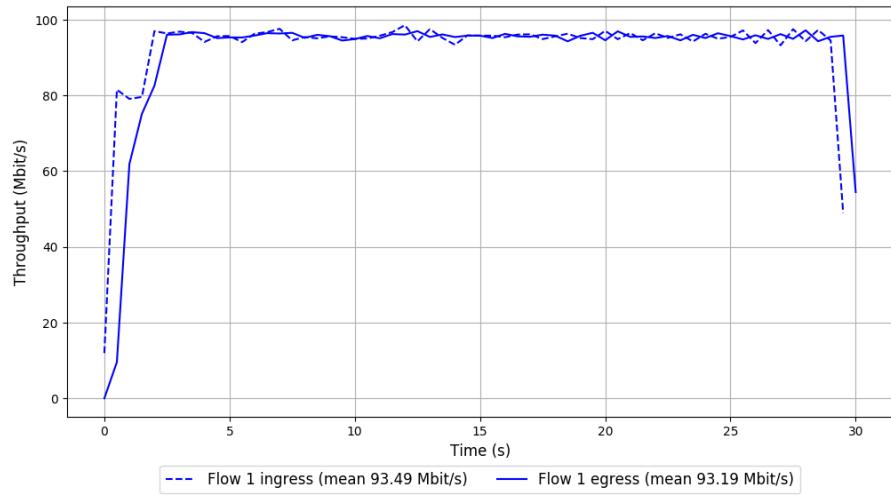


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-06-27 20:04:27
End at: 2019-06-27 20:04:57
Local clock offset: -2.465 ms
Remote clock offset: -3.737 ms

# Below is generated by plot.py at 2019-06-27 21:29:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 34.902 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 34.902 ms
Loss rate: 0.32%
```

Run 3: Report of Muses_DecisionTree — Data Link

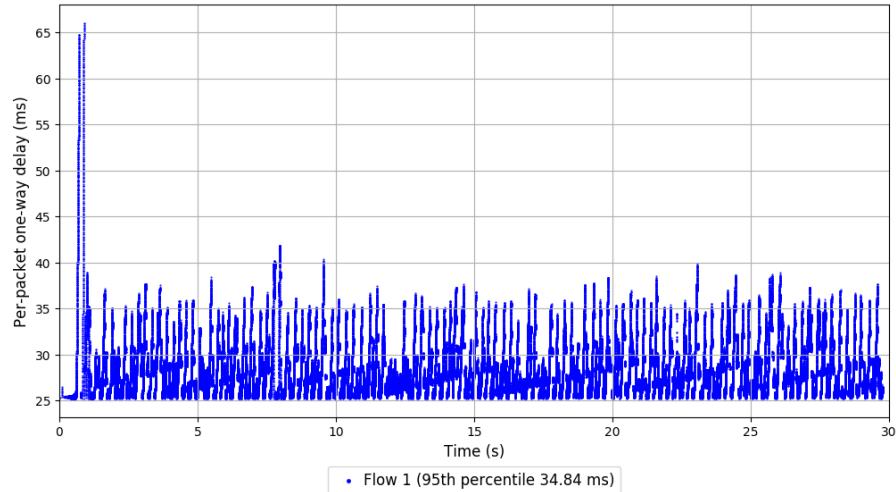
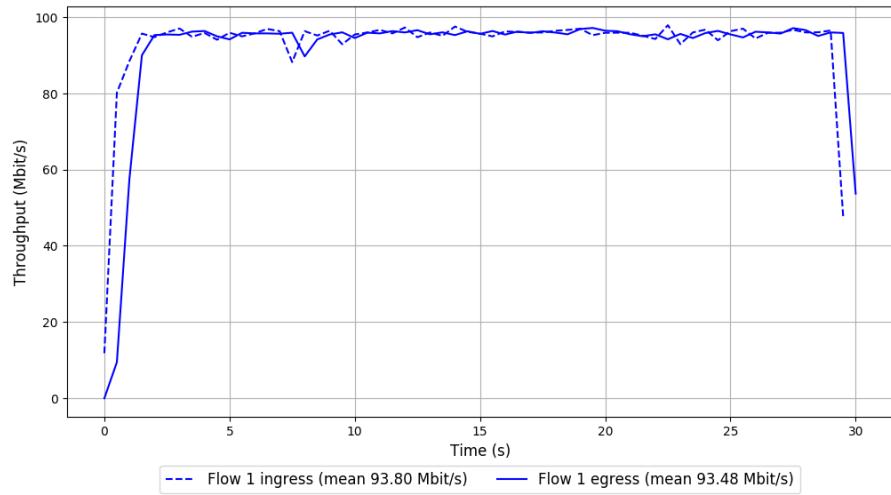


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-06-27 20:30:25
End at: 2019-06-27 20:30:55
Local clock offset: -0.525 ms
Remote clock offset: -3.329 ms

# Below is generated by plot.py at 2019-06-27 21:29:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.48 Mbit/s
95th percentile per-packet one-way delay: 34.835 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 93.48 Mbit/s
95th percentile per-packet one-way delay: 34.835 ms
Loss rate: 0.34%
```

Run 4: Report of Muses_DecisionTree — Data Link

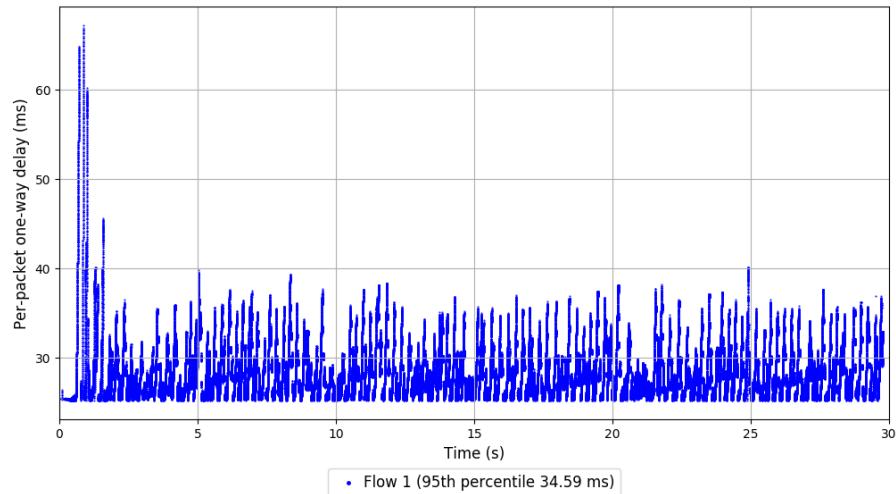
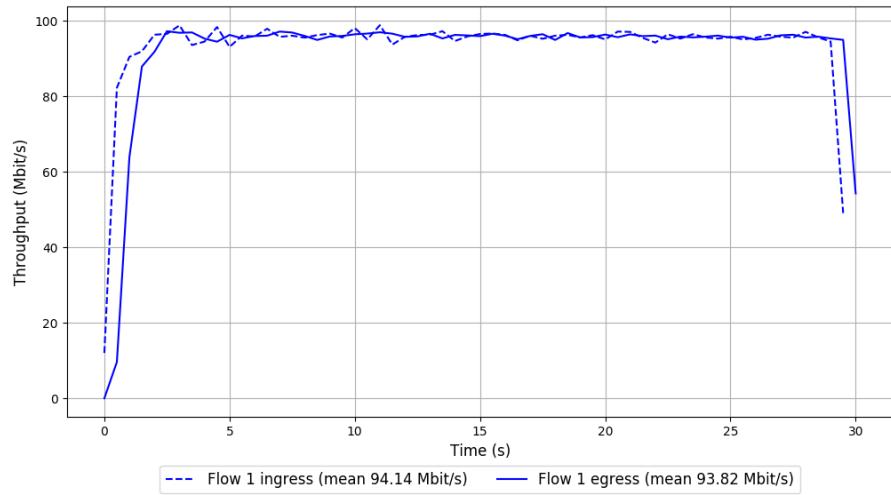


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-06-27 20:57:08
End at: 2019-06-27 20:57:38
Local clock offset: 0.225 ms
Remote clock offset: -2.972 ms

# Below is generated by plot.py at 2019-06-27 21:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.82 Mbit/s
95th percentile per-packet one-way delay: 34.586 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 93.82 Mbit/s
95th percentile per-packet one-way delay: 34.586 ms
Loss rate: 0.33%
```

Run 5: Report of Muses_DecisionTree — Data Link

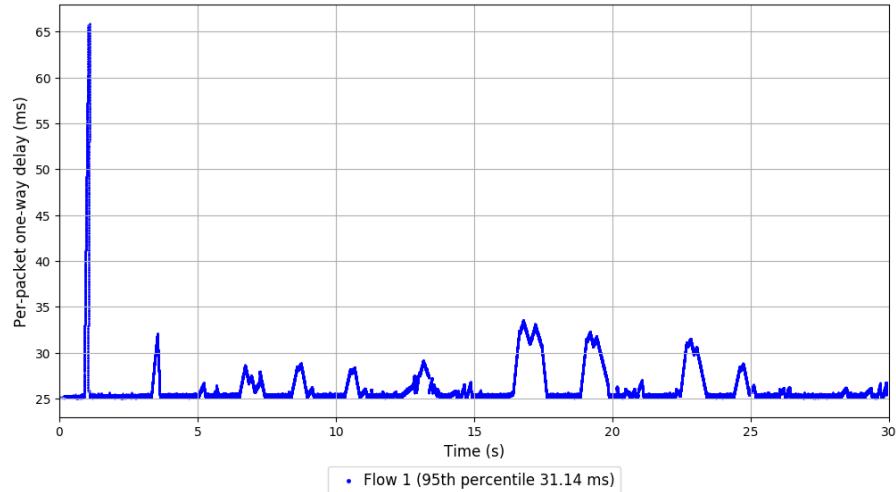
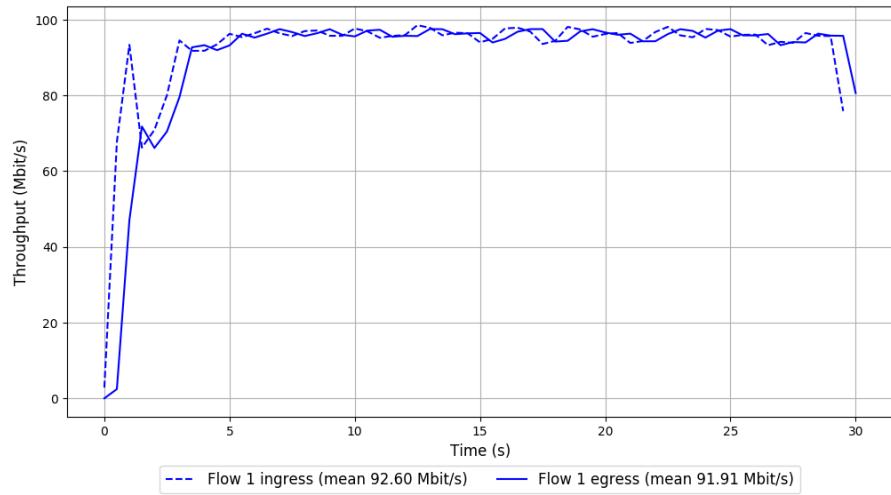


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-06-27 19:11:47
End at: 2019-06-27 19:12:17
Local clock offset: 0.021 ms
Remote clock offset: -5.428 ms

# Below is generated by plot.py at 2019-06-27 21:29:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.91 Mbit/s
95th percentile per-packet one-way delay: 31.145 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 91.91 Mbit/s
95th percentile per-packet one-way delay: 31.145 ms
Loss rate: 0.74%
```

Run 1: Report of PCC-Allegro — Data Link

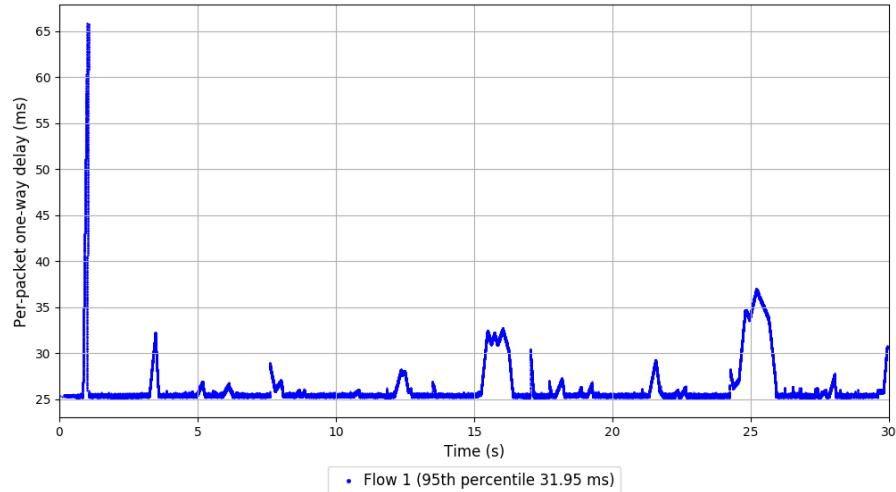
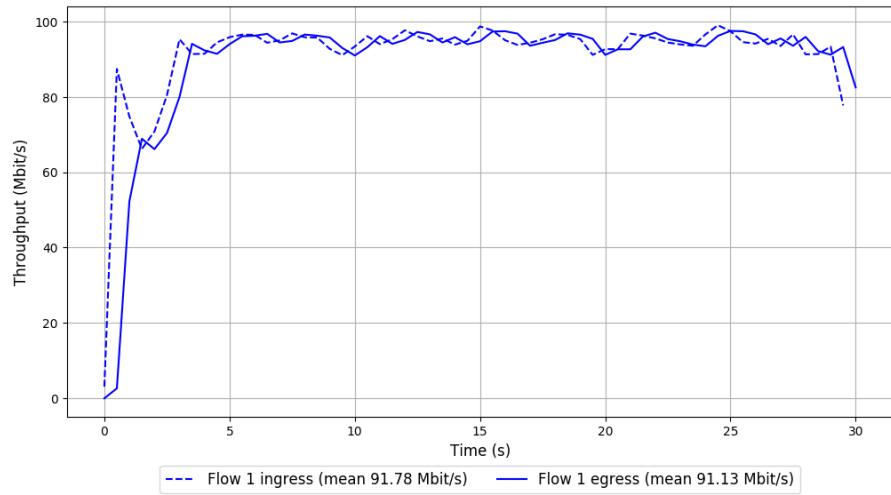


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-06-27 19:38:43
End at: 2019-06-27 19:39:13
Local clock offset: -0.098 ms
Remote clock offset: -4.528 ms

# Below is generated by plot.py at 2019-06-27 21:29:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 31.946 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 31.946 ms
Loss rate: 0.69%
```

Run 2: Report of PCC-Allegro — Data Link

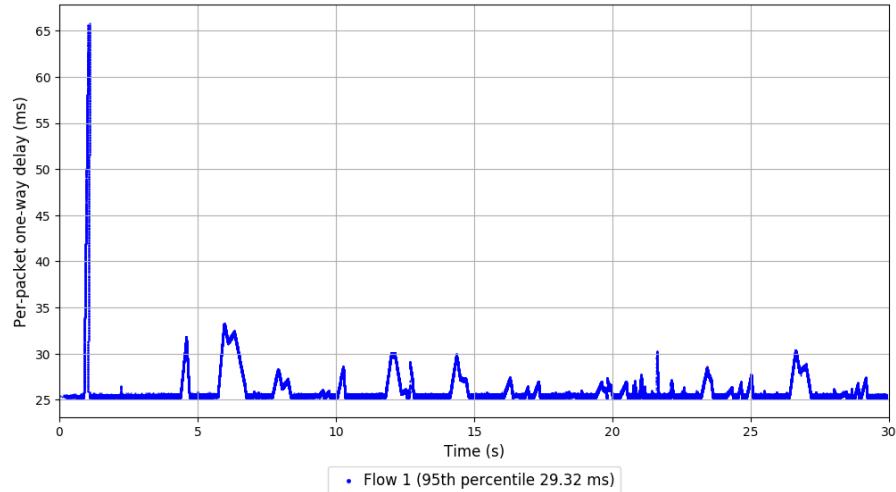
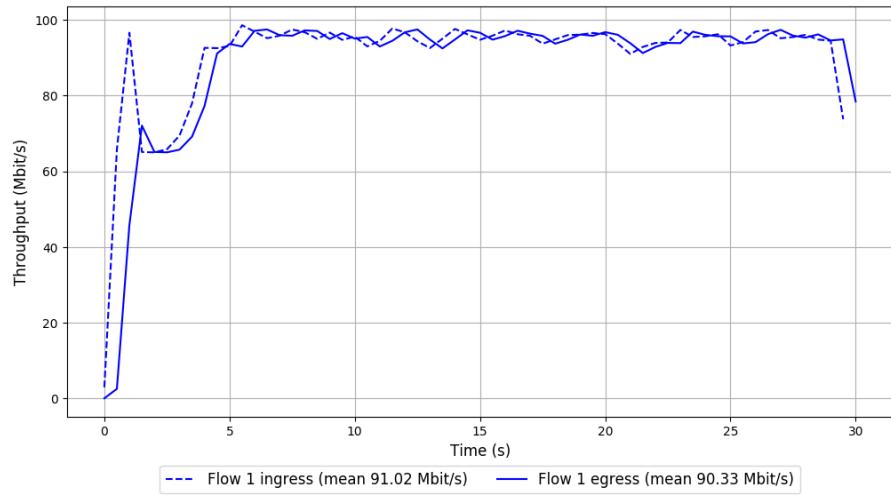


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-06-27 20:05:41
End at: 2019-06-27 20:06:11
Local clock offset: -2.575 ms
Remote clock offset: -3.682 ms

# Below is generated by plot.py at 2019-06-27 21:29:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.33 Mbit/s
95th percentile per-packet one-way delay: 29.315 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 90.33 Mbit/s
95th percentile per-packet one-way delay: 29.315 ms
Loss rate: 0.76%
```

Run 3: Report of PCC-Allegro — Data Link

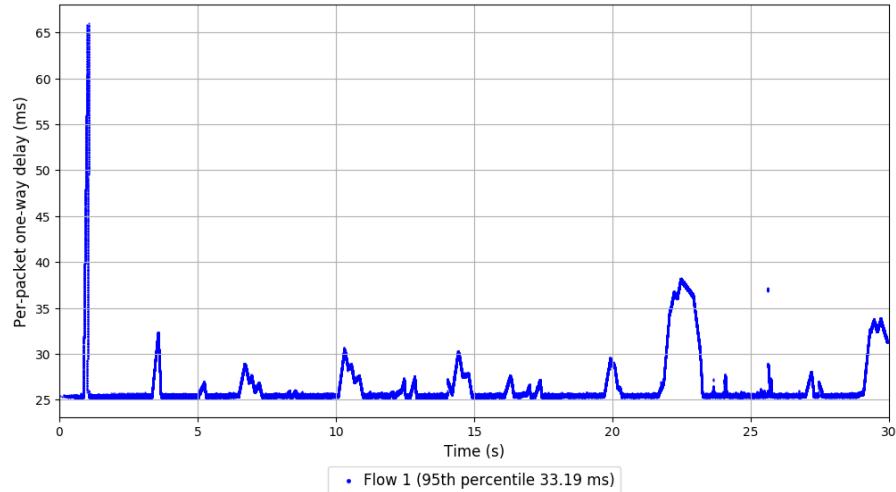
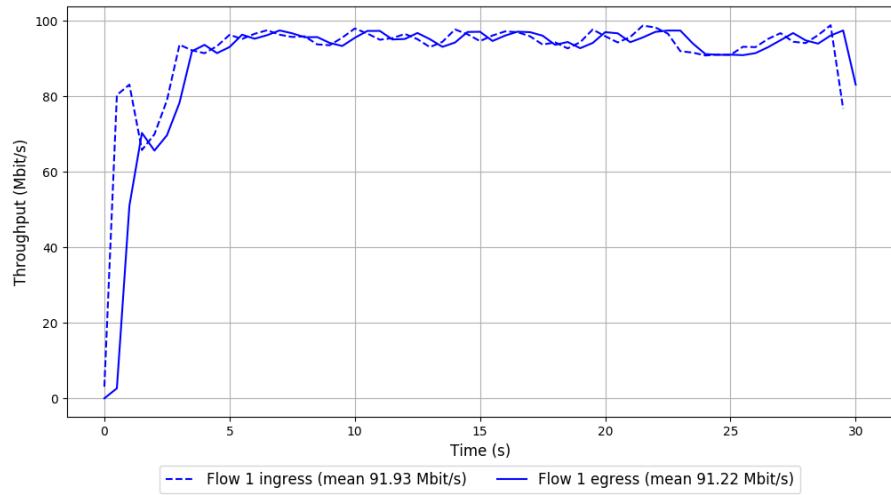


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-06-27 20:31:37
End at: 2019-06-27 20:32:07
Local clock offset: -0.38 ms
Remote clock offset: -3.22 ms

# Below is generated by plot.py at 2019-06-27 21:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.22 Mbit/s
95th percentile per-packet one-way delay: 33.190 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 91.22 Mbit/s
95th percentile per-packet one-way delay: 33.190 ms
Loss rate: 0.75%
```

Run 4: Report of PCC-Allegro — Data Link

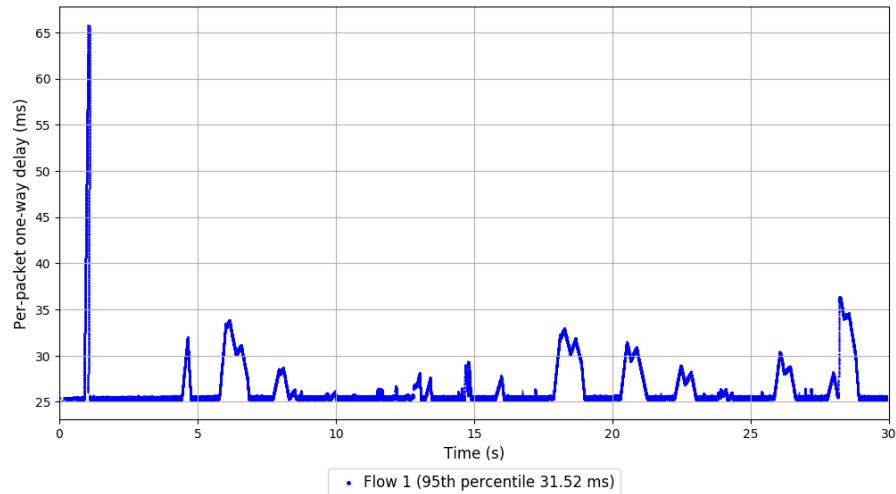
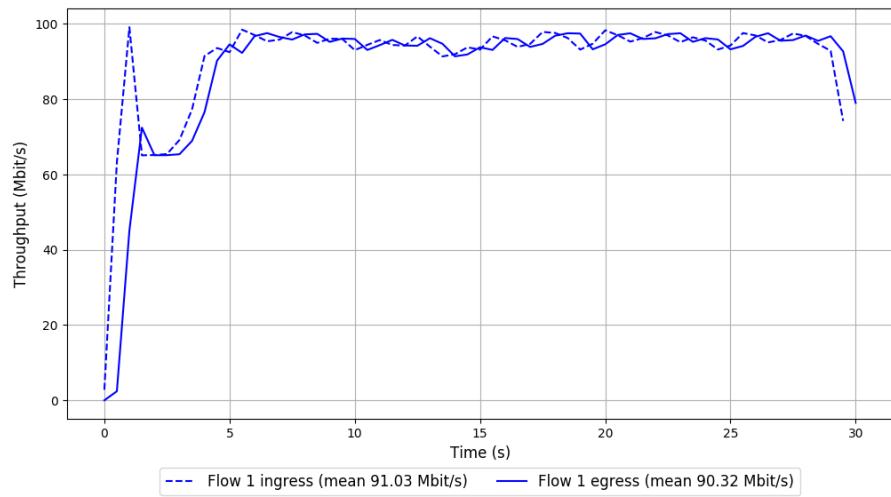


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-06-27 20:58:22
End at: 2019-06-27 20:58:52
Local clock offset: 0.265 ms
Remote clock offset: -2.96 ms

# Below is generated by plot.py at 2019-06-27 21:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.32 Mbit/s
95th percentile per-packet one-way delay: 31.521 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 90.32 Mbit/s
95th percentile per-packet one-way delay: 31.521 ms
Loss rate: 0.77%
```

Run 5: Report of PCC-Allegro — Data Link

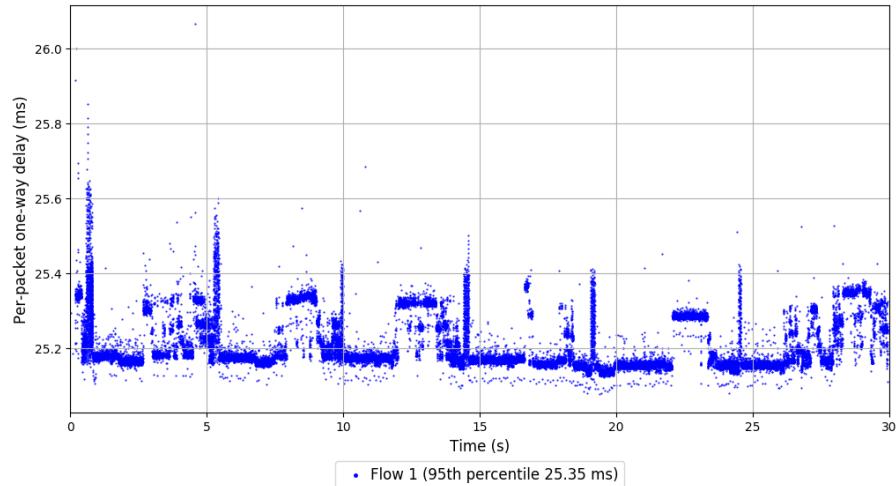
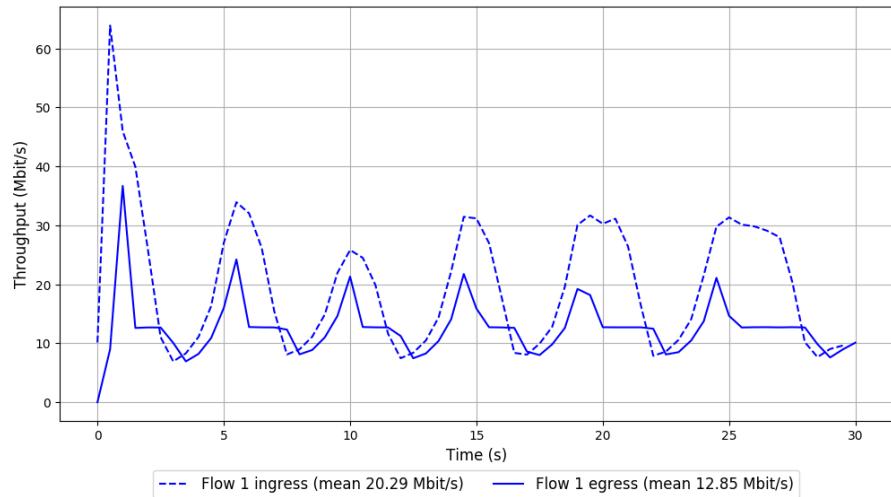


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-06-27 19:14:04
End at: 2019-06-27 19:14:34
Local clock offset: -0.111 ms
Remote clock offset: -5.392 ms

# Below is generated by plot.py at 2019-06-27 21:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.85 Mbit/s
95th percentile per-packet one-way delay: 25.349 ms
Loss rate: 36.69%
-- Flow 1:
Average throughput: 12.85 Mbit/s
95th percentile per-packet one-way delay: 25.349 ms
Loss rate: 36.69%
```

Run 1: Report of PCC-Expr — Data Link

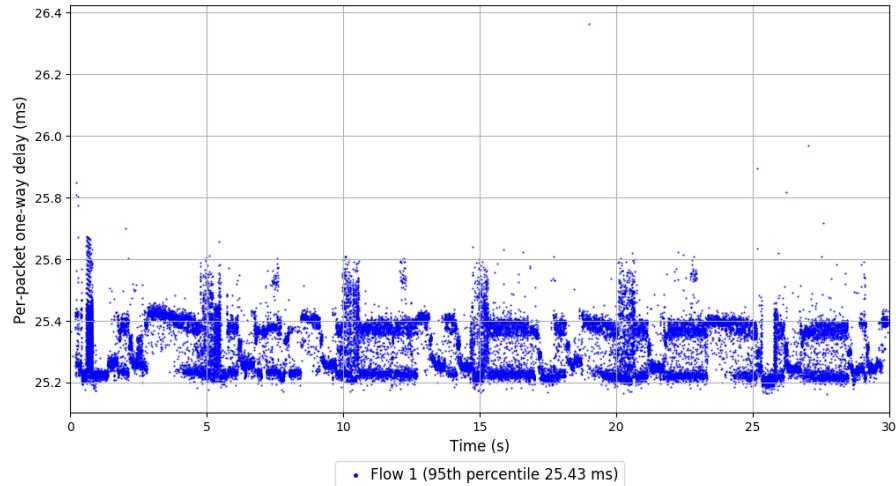
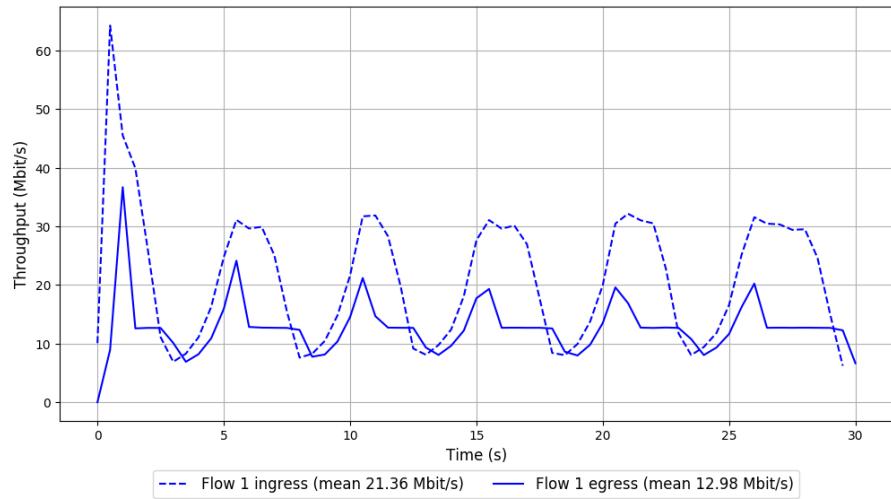


Run 2: Statistics of PCC-Expr

```
Start at: 2019-06-27 19:41:02
End at: 2019-06-27 19:41:32
Local clock offset: -0.118 ms
Remote clock offset: -4.465 ms

# Below is generated by plot.py at 2019-06-27 21:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.98 Mbit/s
95th percentile per-packet one-way delay: 25.433 ms
Loss rate: 39.24%
-- Flow 1:
Average throughput: 12.98 Mbit/s
95th percentile per-packet one-way delay: 25.433 ms
Loss rate: 39.24%
```

Run 2: Report of PCC-Expr — Data Link

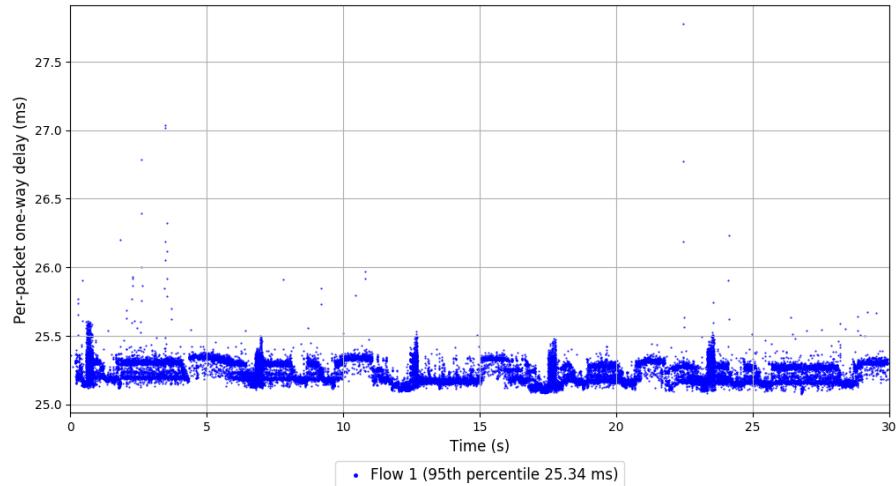
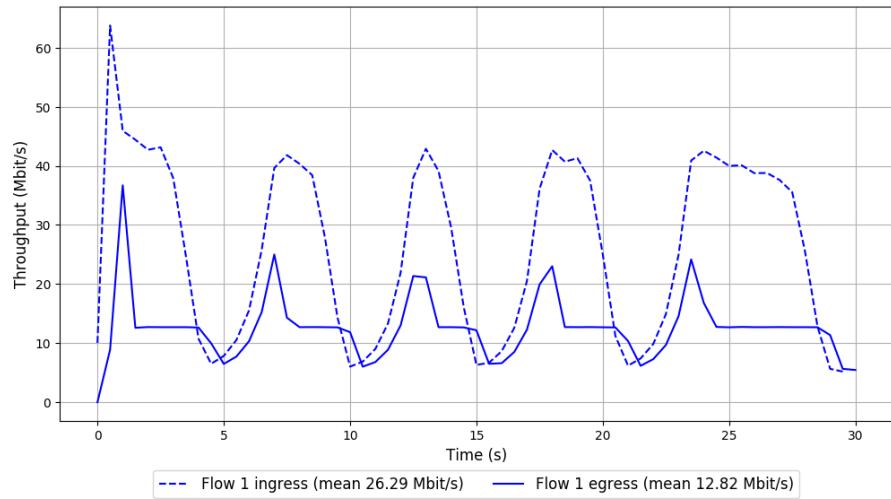


Run 3: Statistics of PCC-Expr

```
Start at: 2019-06-27 20:07:59
End at: 2019-06-27 20:08:29
Local clock offset: -2.715 ms
Remote clock offset: -3.654 ms

# Below is generated by plot.py at 2019-06-27 21:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 25.345 ms
Loss rate: 51.23%
-- Flow 1:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 25.345 ms
Loss rate: 51.23%
```

Run 3: Report of PCC-Expr — Data Link

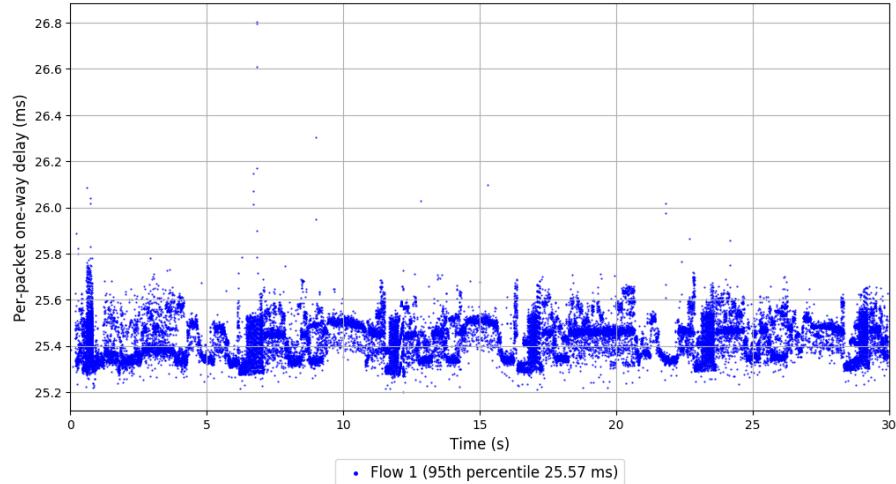
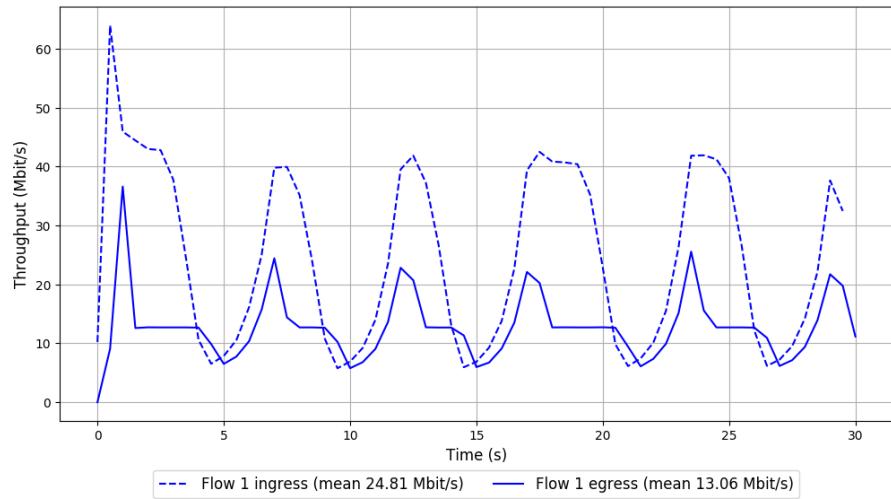


Run 4: Statistics of PCC-Expr

```
Start at: 2019-06-27 20:33:54
End at: 2019-06-27 20:34:24
Local clock offset: -0.199 ms
Remote clock offset: -3.172 ms

# Below is generated by plot.py at 2019-06-27 21:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 25.568 ms
Loss rate: 47.36%
-- Flow 1:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 25.568 ms
Loss rate: 47.36%
```

Run 4: Report of PCC-Expr — Data Link

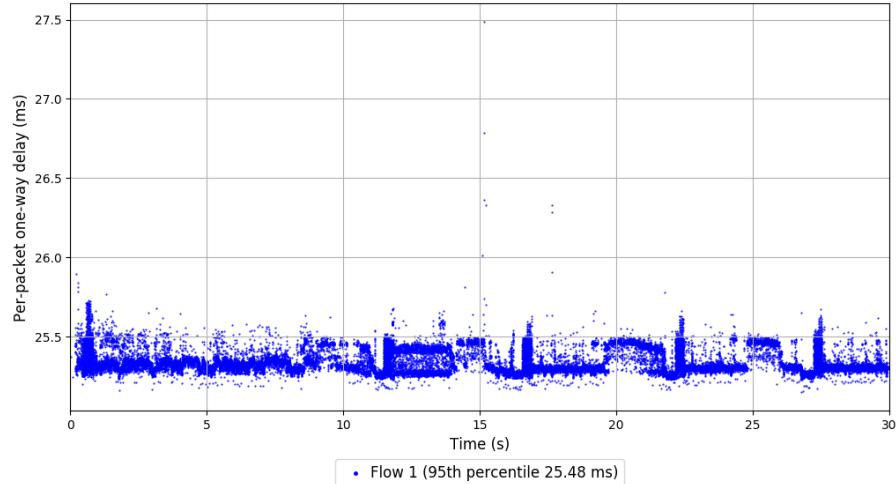
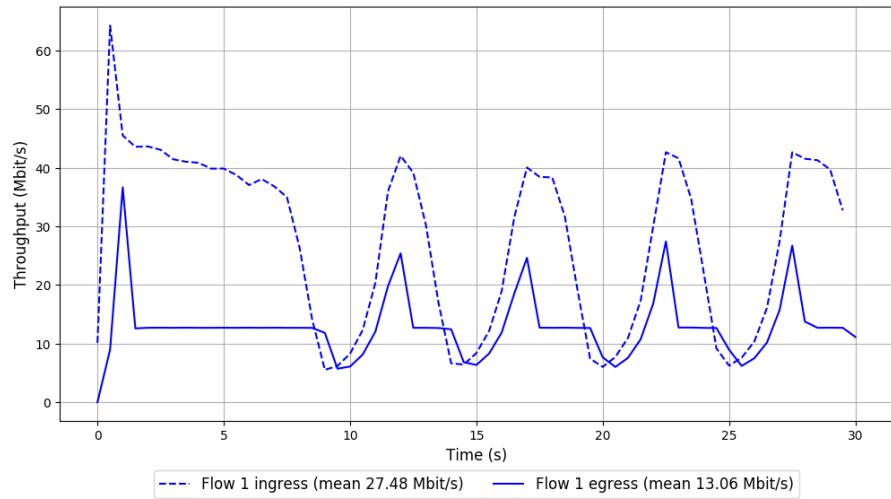


Run 5: Statistics of PCC-Expr

```
Start at: 2019-06-27 21:00:41
End at: 2019-06-27 21:01:11
Local clock offset: 0.278 ms
Remote clock offset: -2.962 ms

# Below is generated by plot.py at 2019-06-27 21:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 25.475 ms
Loss rate: 52.48%
-- Flow 1:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 25.475 ms
Loss rate: 52.48%
```

Run 5: Report of PCC-Expr — Data Link

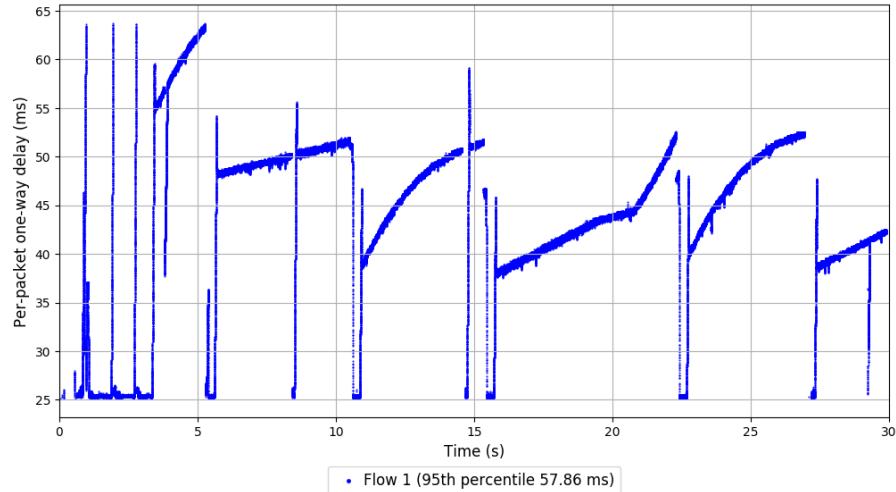
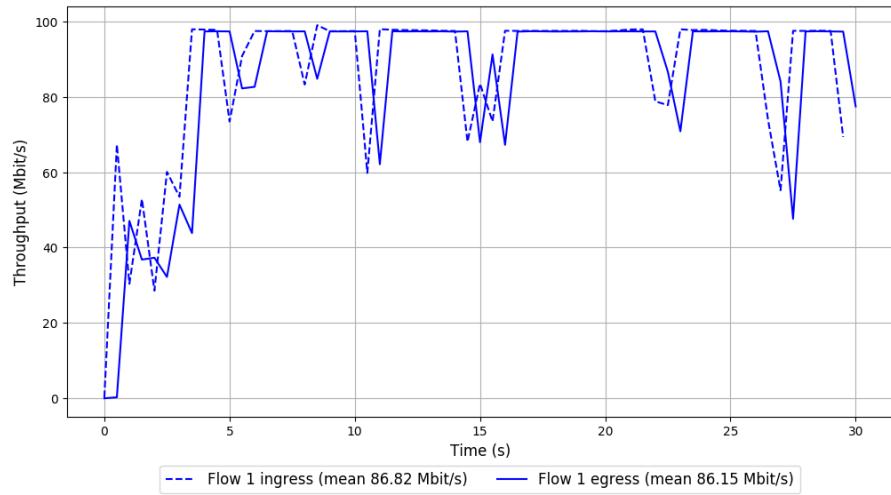


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-06-27 19:27:43
End at: 2019-06-27 19:28:13
Local clock offset: -0.088 ms
Remote clock offset: -4.988 ms

# Below is generated by plot.py at 2019-06-27 21:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.15 Mbit/s
95th percentile per-packet one-way delay: 57.864 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 86.15 Mbit/s
95th percentile per-packet one-way delay: 57.864 ms
Loss rate: 0.72%
```

Run 1: Report of QUIC Cubic — Data Link

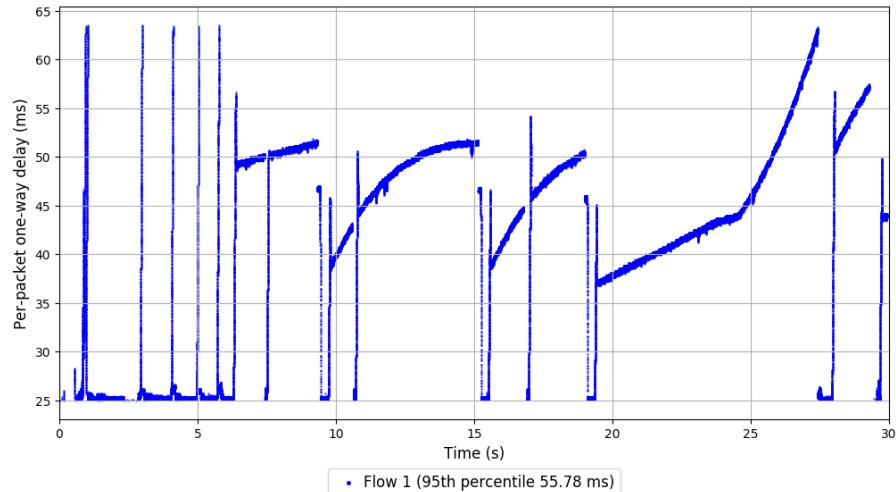
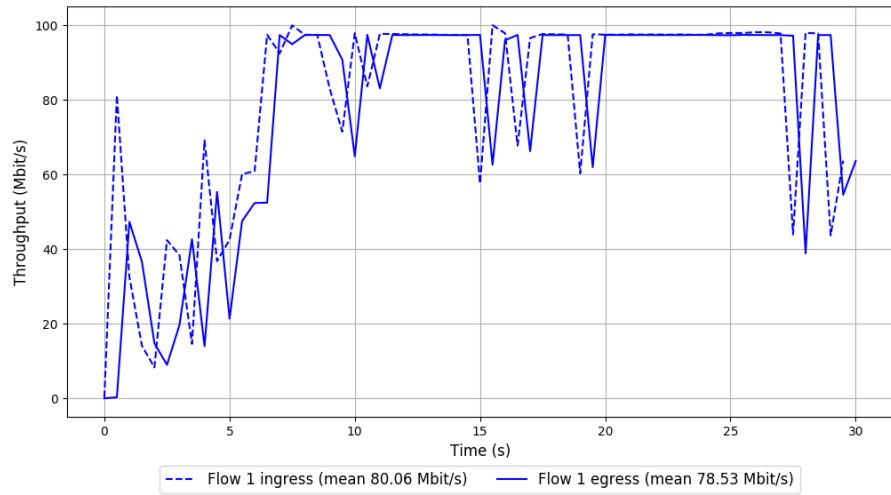


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-06-27 19:54:51
End at: 2019-06-27 19:55:21
Local clock offset: -1.514 ms
Remote clock offset: -4.025 ms

# Below is generated by plot.py at 2019-06-27 21:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.53 Mbit/s
95th percentile per-packet one-way delay: 55.782 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 78.53 Mbit/s
95th percentile per-packet one-way delay: 55.782 ms
Loss rate: 1.85%
```

Run 2: Report of QUIC Cubic — Data Link

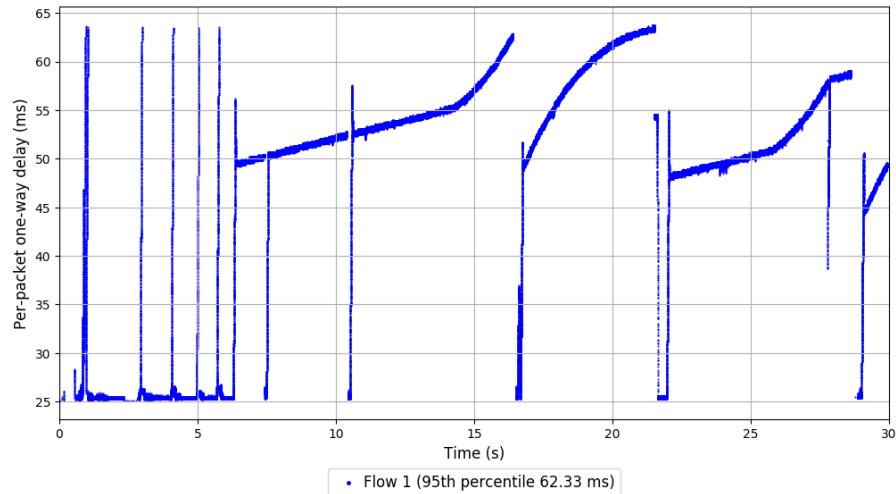
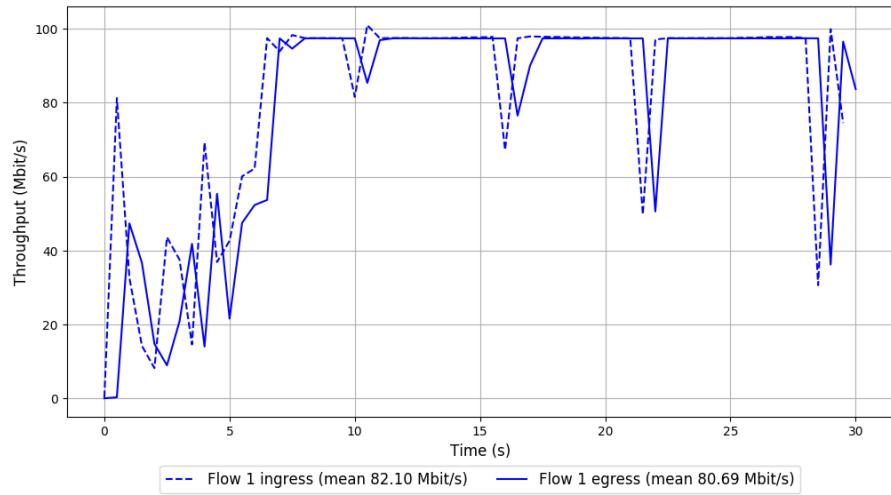


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-06-27 20:21:04
End at: 2019-06-27 20:21:34
Local clock offset: -2.169 ms
Remote clock offset: -3.421 ms

# Below is generated by plot.py at 2019-06-27 21:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.69 Mbit/s
95th percentile per-packet one-way delay: 62.326 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 80.69 Mbit/s
95th percentile per-packet one-way delay: 62.326 ms
Loss rate: 1.64%
```

Run 3: Report of QUIC Cubic — Data Link

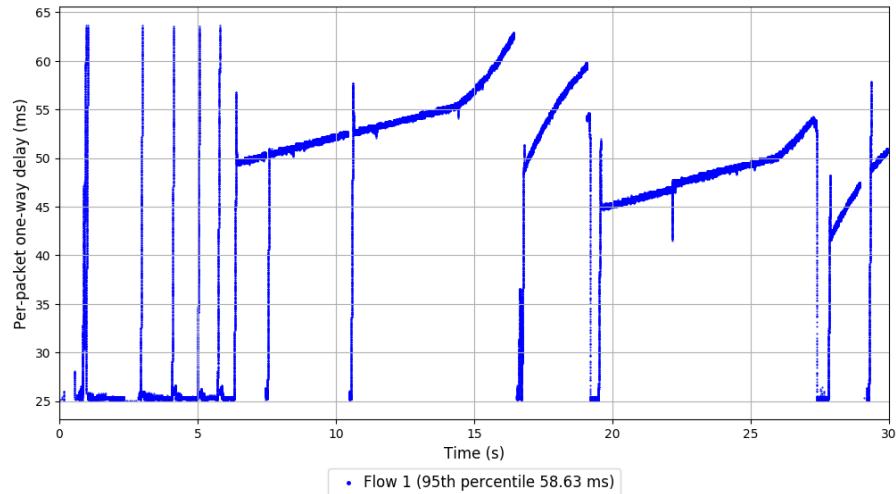
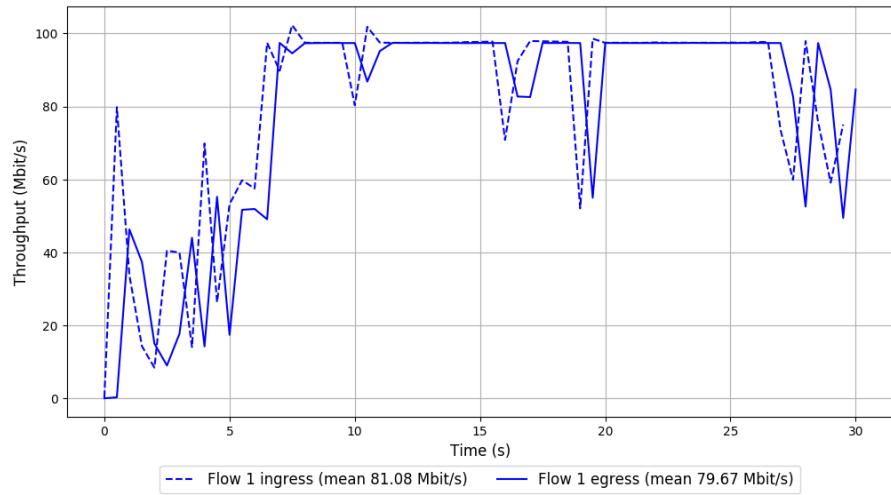


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-06-27 20:47:36
End at: 2019-06-27 20:48:06
Local clock offset: 0.354 ms
Remote clock offset: -3.104 ms

# Below is generated by plot.py at 2019-06-27 21:30:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.67 Mbit/s
95th percentile per-packet one-way delay: 58.633 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 79.67 Mbit/s
95th percentile per-packet one-way delay: 58.633 ms
Loss rate: 1.65%
```

Run 4: Report of QUIC Cubic — Data Link

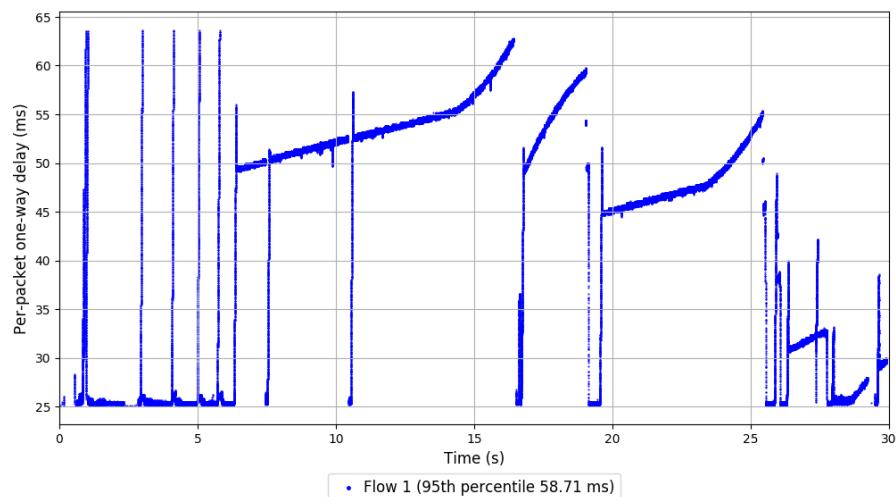
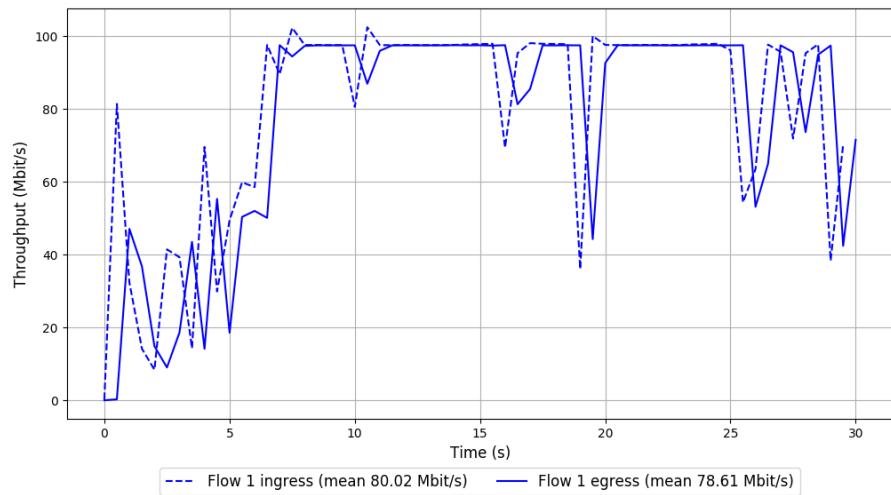


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-06-27 21:14:32
End at: 2019-06-27 21:15:02
Local clock offset: 0.331 ms
Remote clock offset: -3.092 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.61 Mbit/s
95th percentile per-packet one-way delay: 58.709 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 78.61 Mbit/s
95th percentile per-packet one-way delay: 58.709 ms
Loss rate: 1.74%
```

Run 5: Report of QUIC Cubic — Data Link

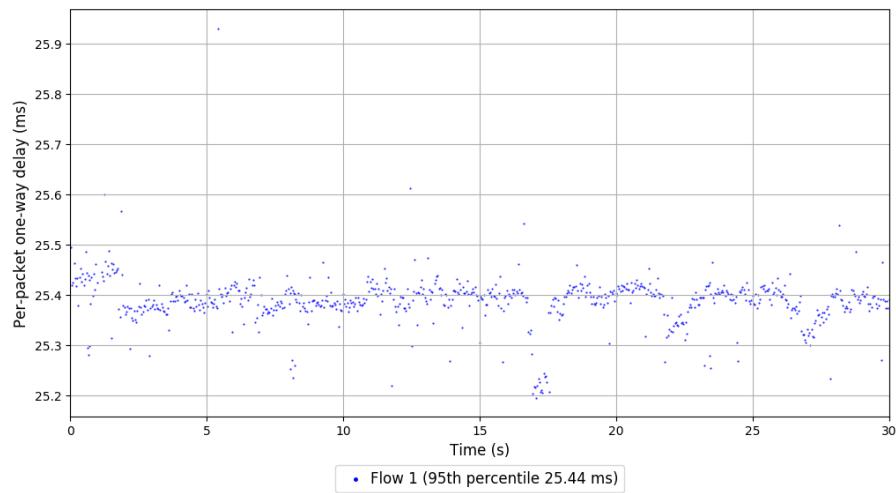
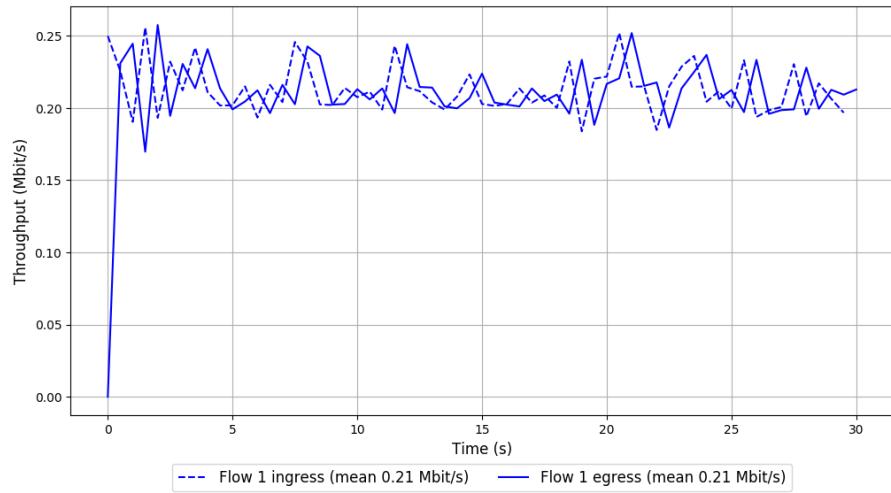


Run 1: Statistics of SCReAM

```
Start at: 2019-06-27 19:29:00
End at: 2019-06-27 19:29:30
Local clock offset: -0.098 ms
Remote clock offset: -4.955 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.439 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.439 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

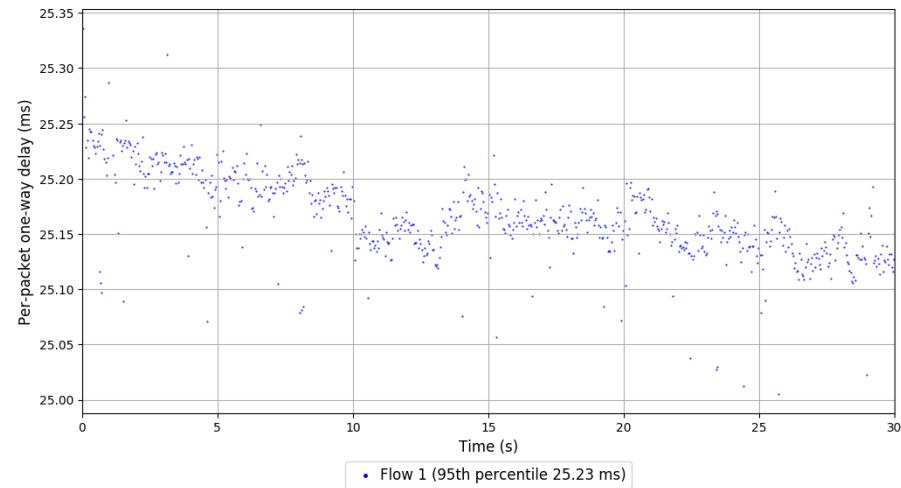
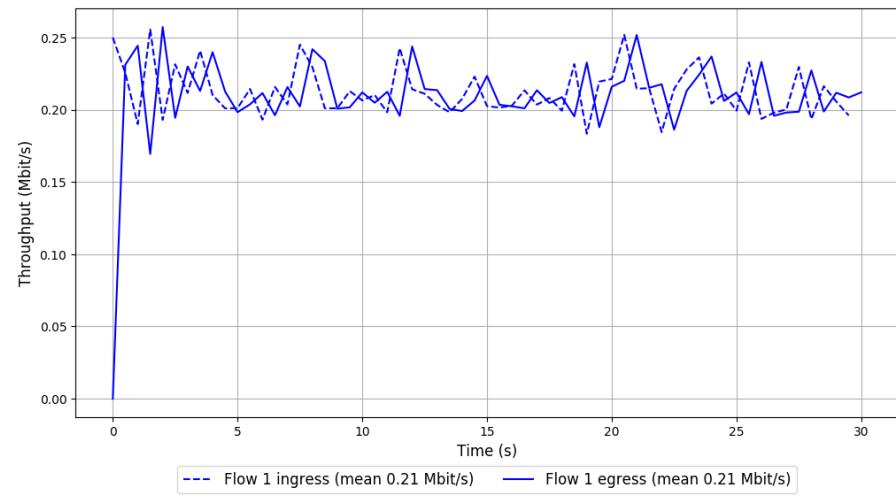


Run 2: Statistics of SCReAM

```
Start at: 2019-06-27 19:56:05
End at: 2019-06-27 19:56:35
Local clock offset: -1.682 ms
Remote clock offset: -4.034 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.227 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

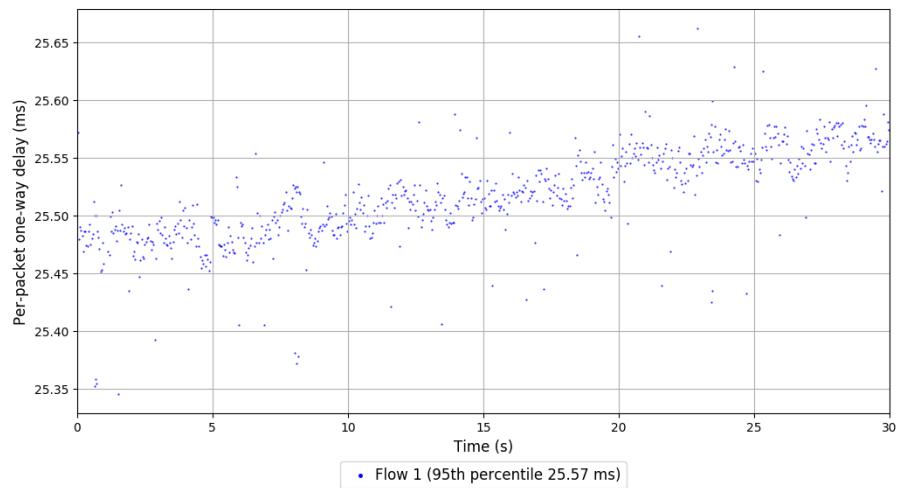
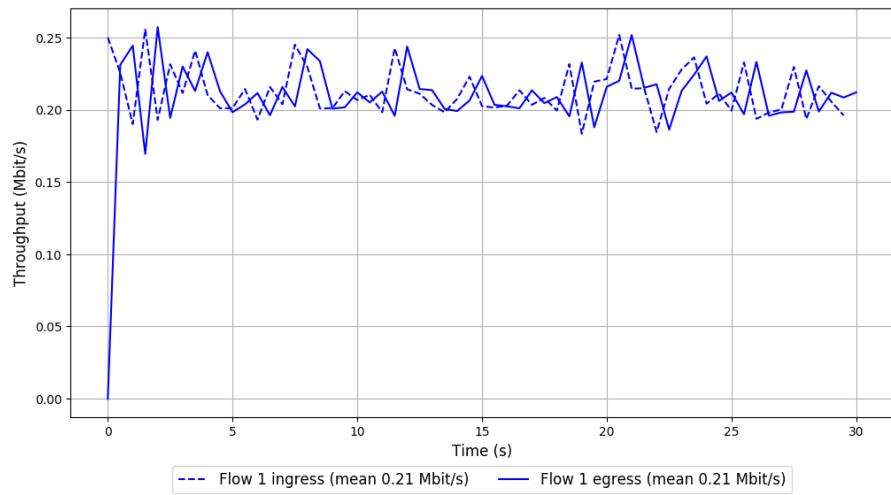


Run 3: Statistics of SCReAM

```
Start at: 2019-06-27 20:22:15
End at: 2019-06-27 20:22:45
Local clock offset: -1.895 ms
Remote clock offset: -3.383 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.574 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.574 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

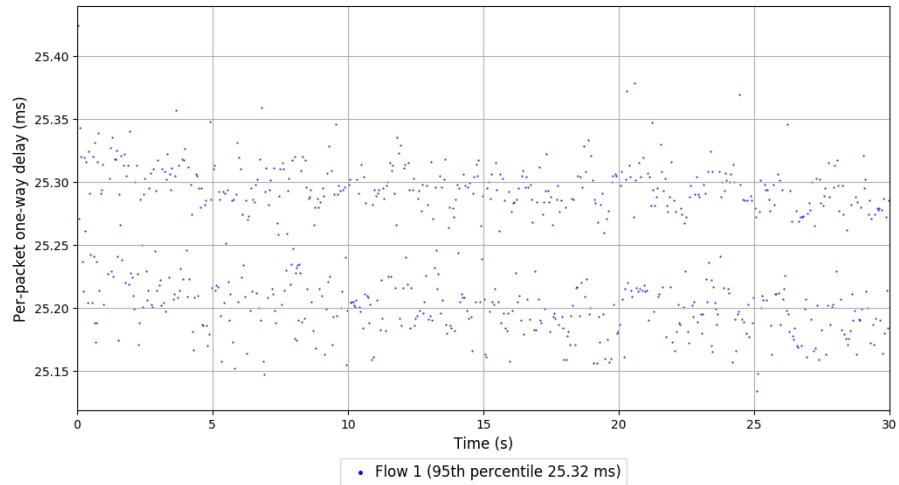
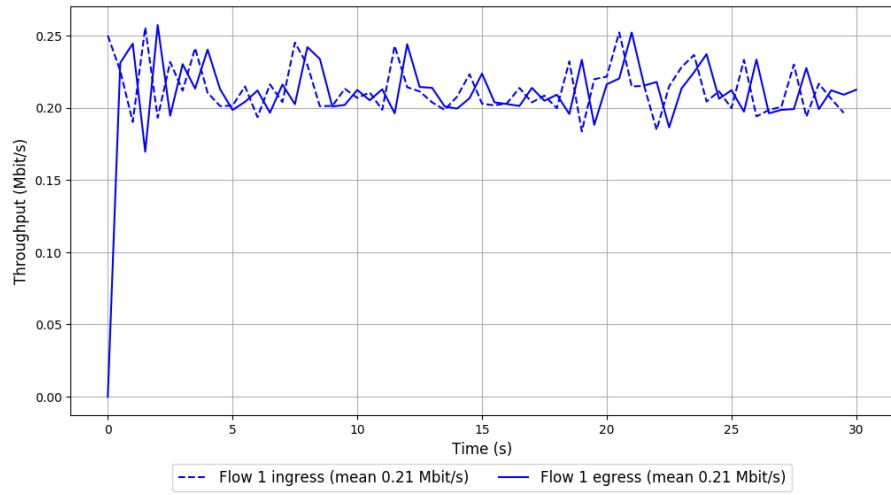


Run 4: Statistics of SCReAM

```
Start at: 2019-06-27 20:48:53
End at: 2019-06-27 20:49:23
Local clock offset: 0.38 ms
Remote clock offset: -3.114 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.319 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.319 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

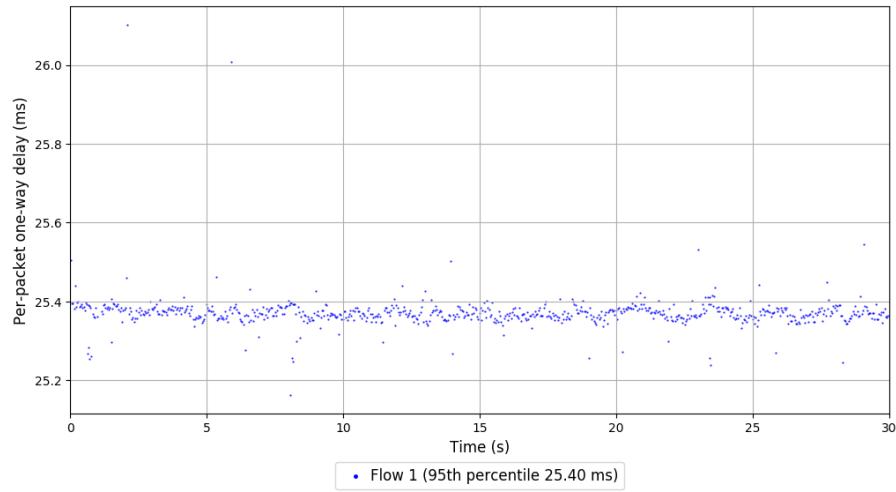
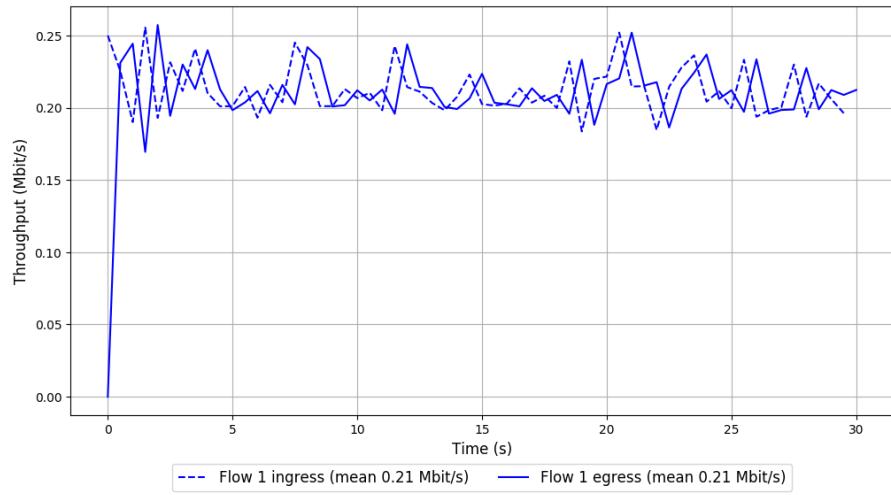


Run 5: Statistics of SCReAM

```
Start at: 2019-06-27 21:15:46
End at: 2019-06-27 21:16:16
Local clock offset: 0.311 ms
Remote clock offset: -3.124 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.401 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.401 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

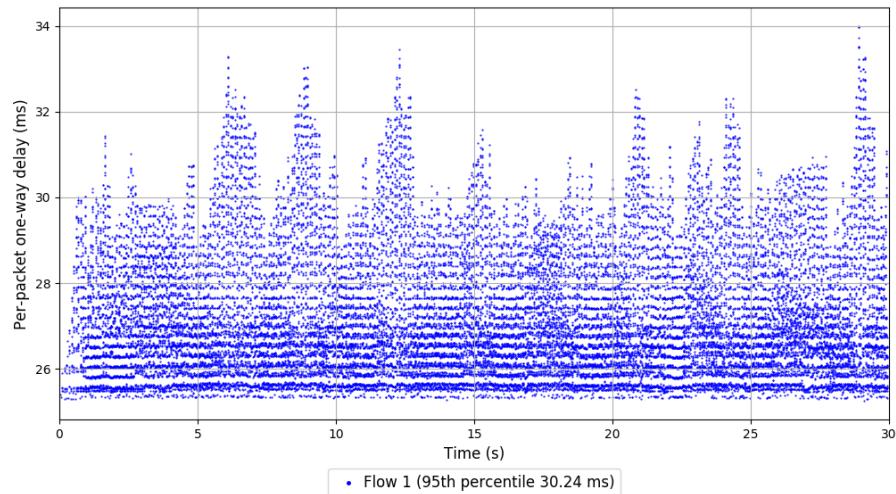
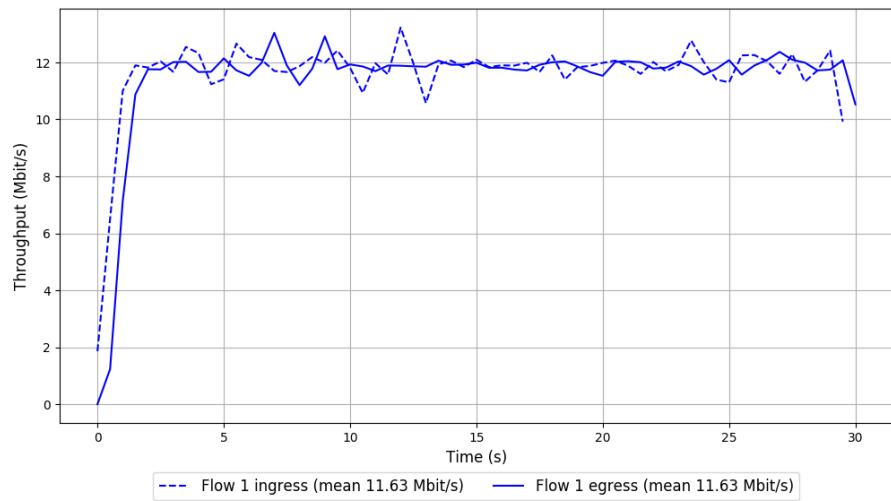


Run 1: Statistics of Sprout

```
Start at: 2019-06-27 19:30:06
End at: 2019-06-27 19:30:36
Local clock offset: -0.103 ms
Remote clock offset: -4.889 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 30.244 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 30.244 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

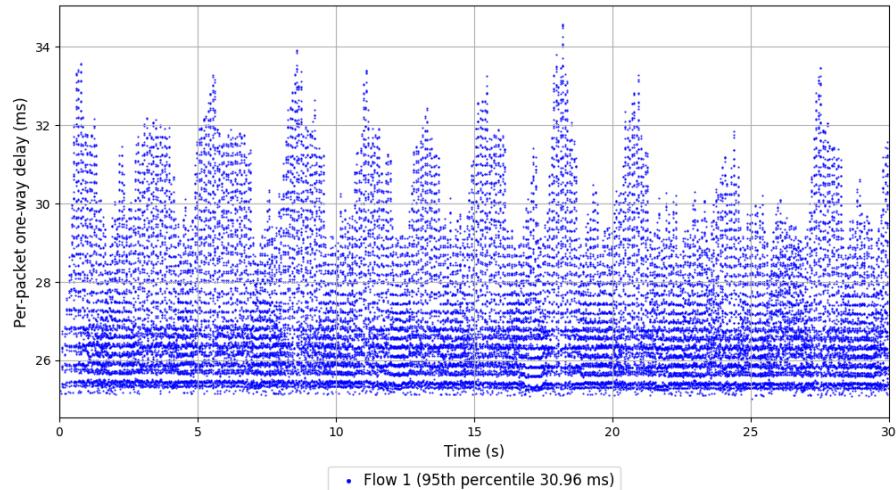
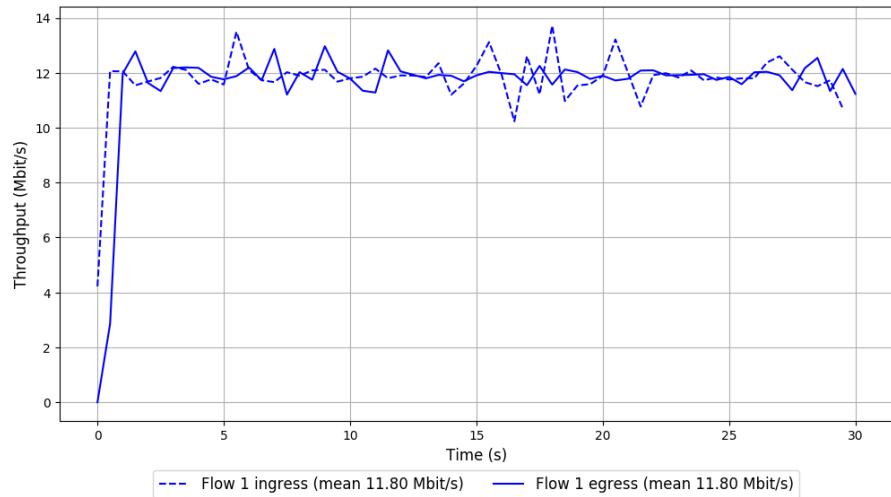


Run 2: Statistics of Sprout

```
Start at: 2019-06-27 19:57:12
End at: 2019-06-27 19:57:42
Local clock offset: -1.83 ms
Remote clock offset: -3.959 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 30.956 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 30.956 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

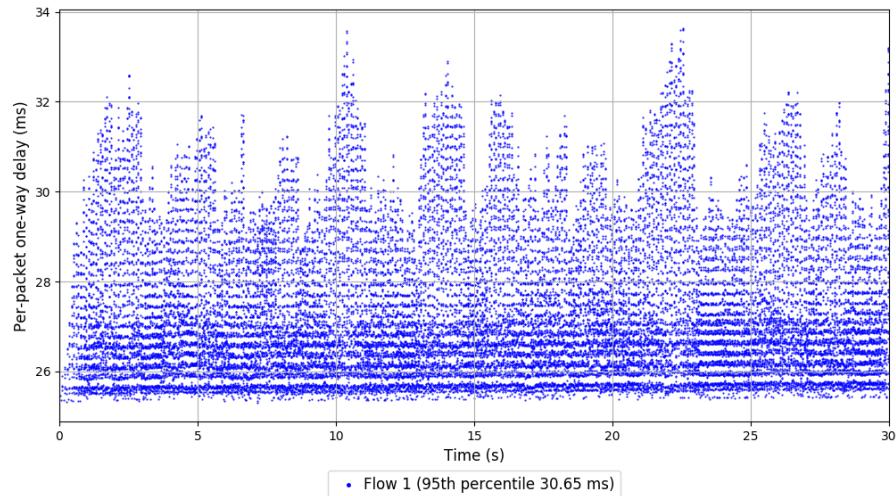
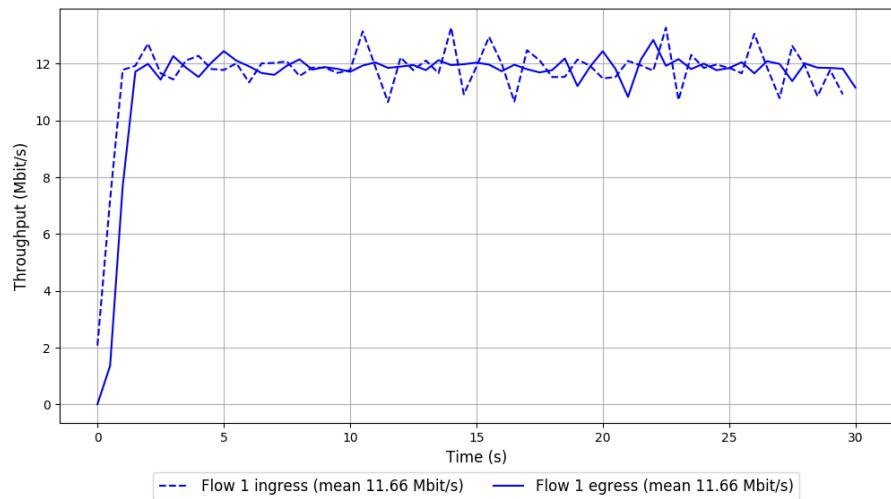


Run 3: Statistics of Sprout

```
Start at: 2019-06-27 20:23:22
End at: 2019-06-27 20:23:52
Local clock offset: -1.651 ms
Remote clock offset: -3.404 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 30.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 30.651 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

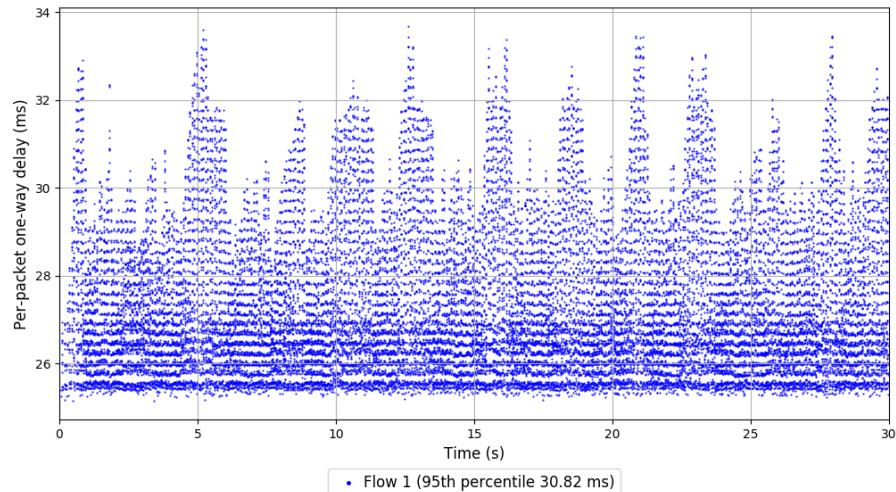
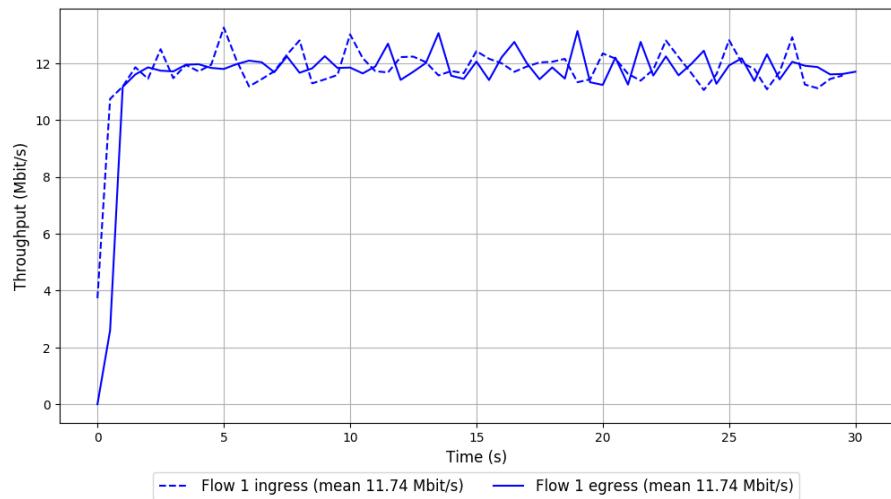


Run 4: Statistics of Sprout

```
Start at: 2019-06-27 20:49:59
End at: 2019-06-27 20:50:29
Local clock offset: 0.327 ms
Remote clock offset: -3.0 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 30.818 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 30.818 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

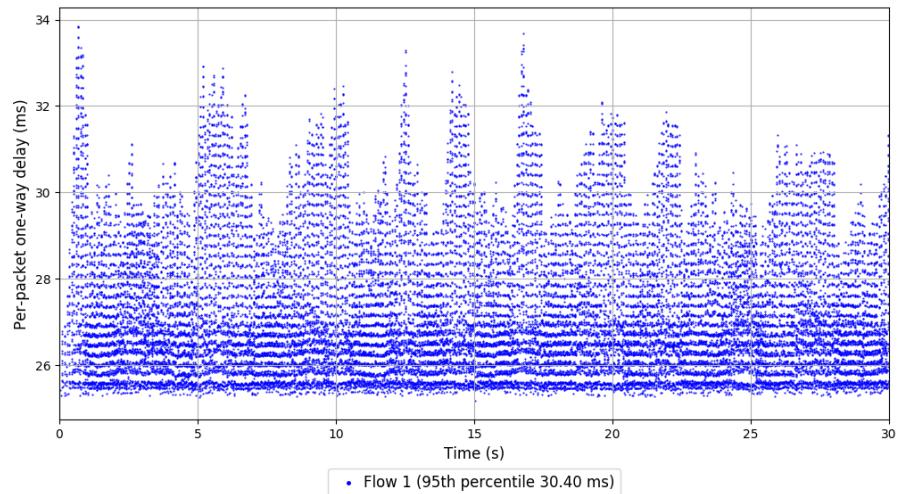
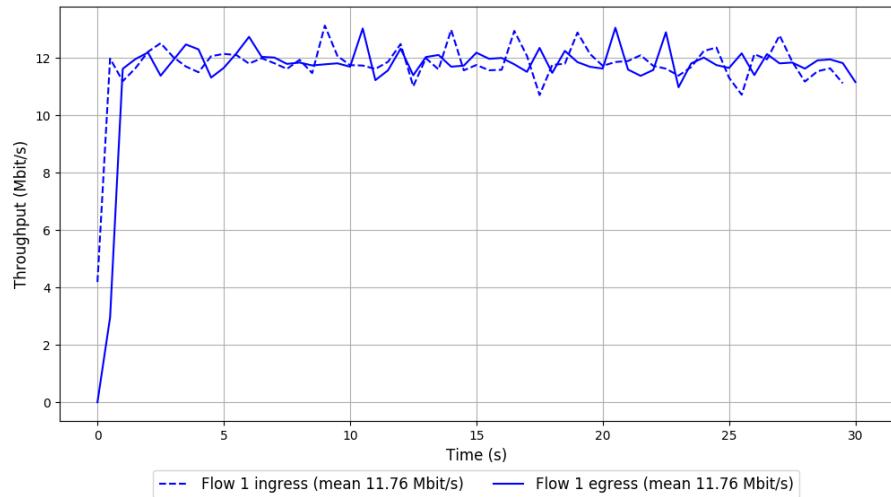


Run 5: Statistics of Sprout

```
Start at: 2019-06-27 21:16:53
End at: 2019-06-27 21:17:23
Local clock offset: 0.331 ms
Remote clock offset: -3.135 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 30.399 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 30.399 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

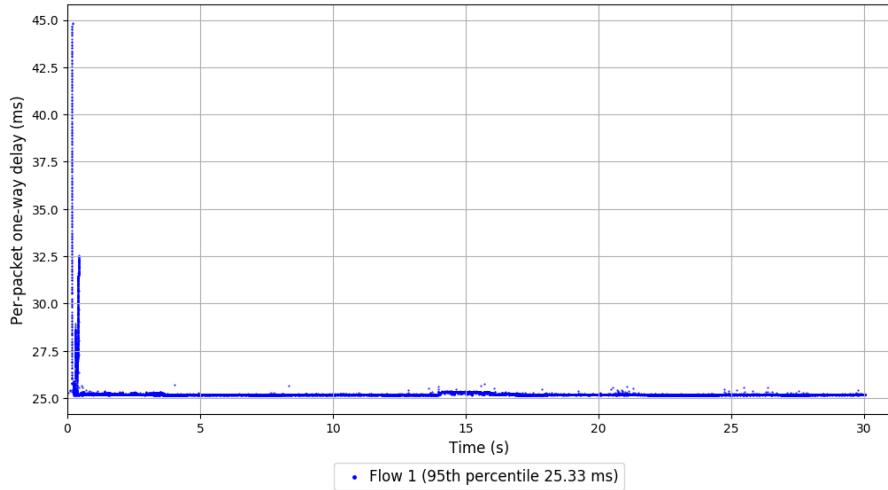
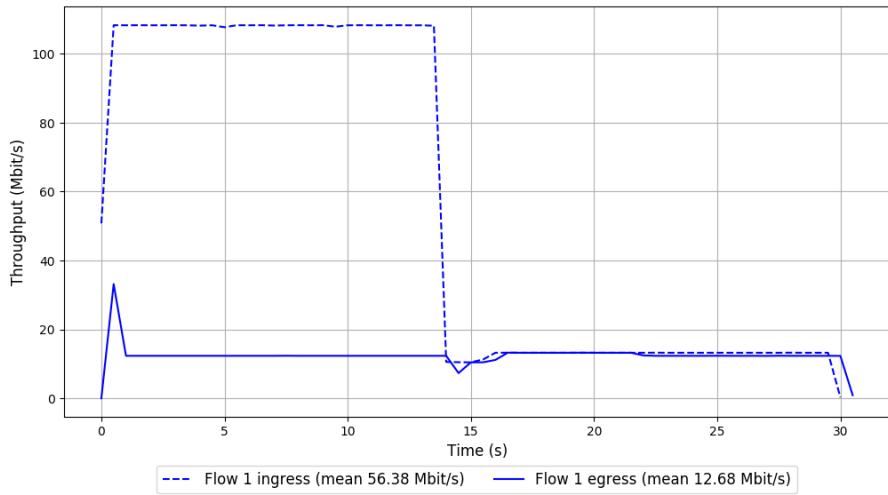


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-06-27 19:18:47
End at: 2019-06-27 19:19:17
Local clock offset: -0.236 ms
Remote clock offset: -5.372 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 25.329 ms
Loss rate: 77.51%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 25.329 ms
Loss rate: 77.51%
```

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

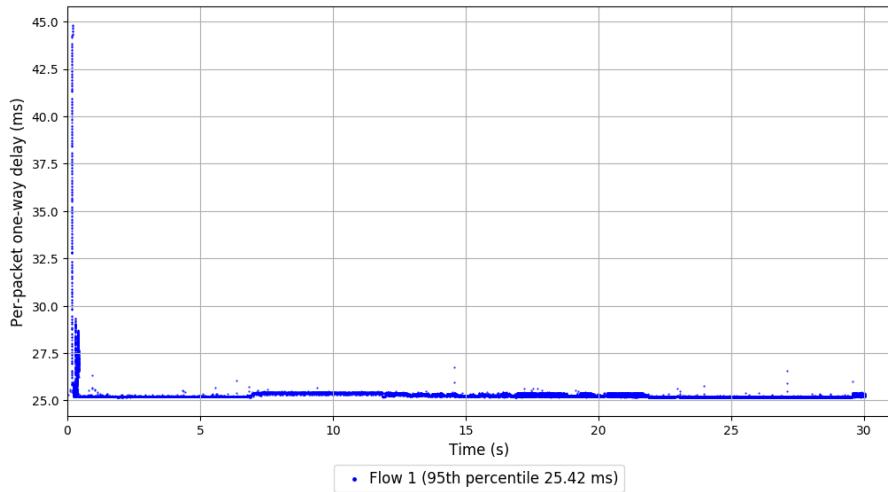
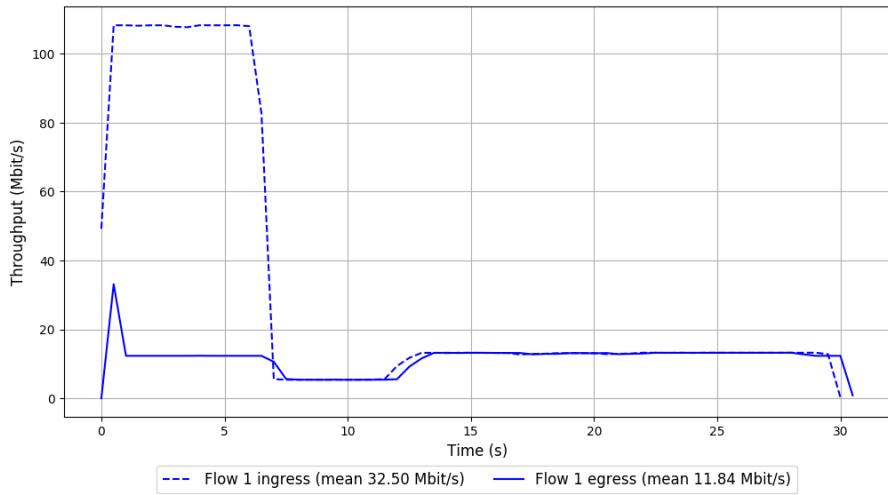


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-06-27 19:46:12
End at: 2019-06-27 19:46:42
Local clock offset: -0.179 ms
Remote clock offset: -4.302 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 25.423 ms
Loss rate: 63.56%
-- Flow 1:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 25.423 ms
Loss rate: 63.56%
```

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

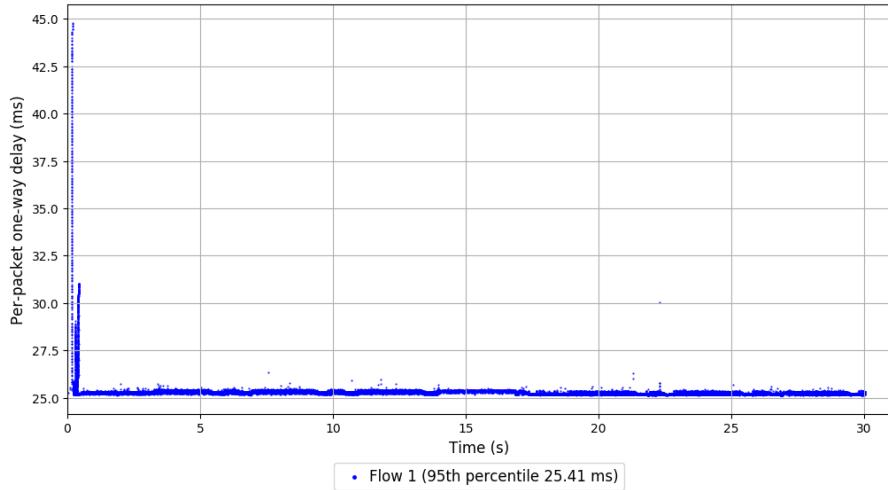
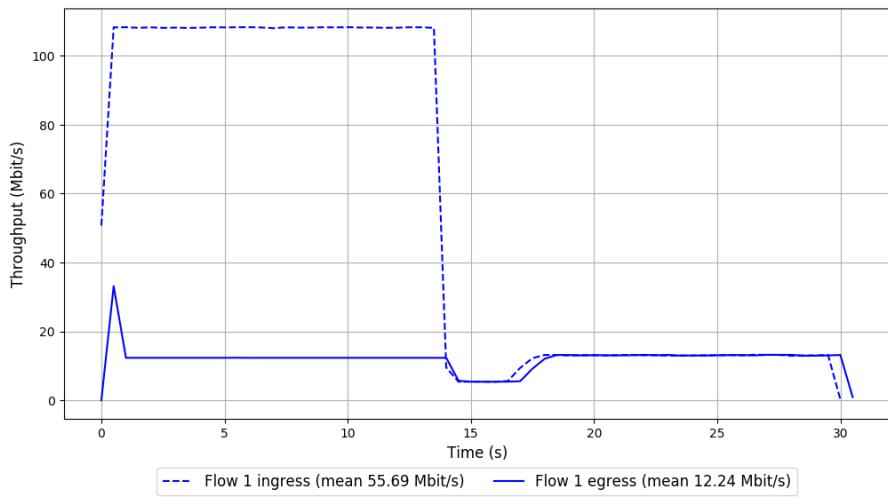


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-06-27 20:12:42
End at: 2019-06-27 20:13:12
Local clock offset: -2.984 ms
Remote clock offset: -3.578 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 25.415 ms
Loss rate: 78.02%
-- Flow 1:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 25.415 ms
Loss rate: 78.02%
```

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

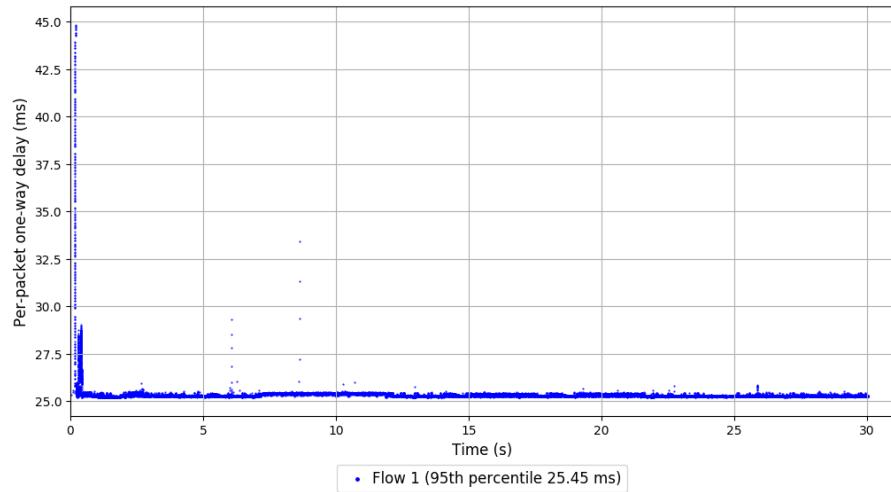
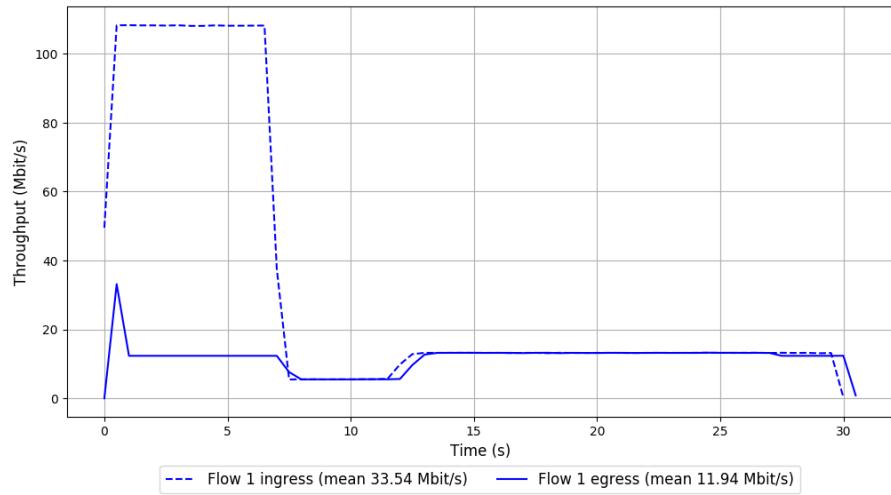


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-06-27 20:38:45
End at: 2019-06-27 20:39:16
Local clock offset: 0.072 ms
Remote clock offset: -3.241 ms

# Below is generated by plot.py at 2019-06-27 21:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.94 Mbit/s
95th percentile per-packet one-way delay: 25.450 ms
Loss rate: 64.41%
-- Flow 1:
Average throughput: 11.94 Mbit/s
95th percentile per-packet one-way delay: 25.450 ms
Loss rate: 64.41%
```

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

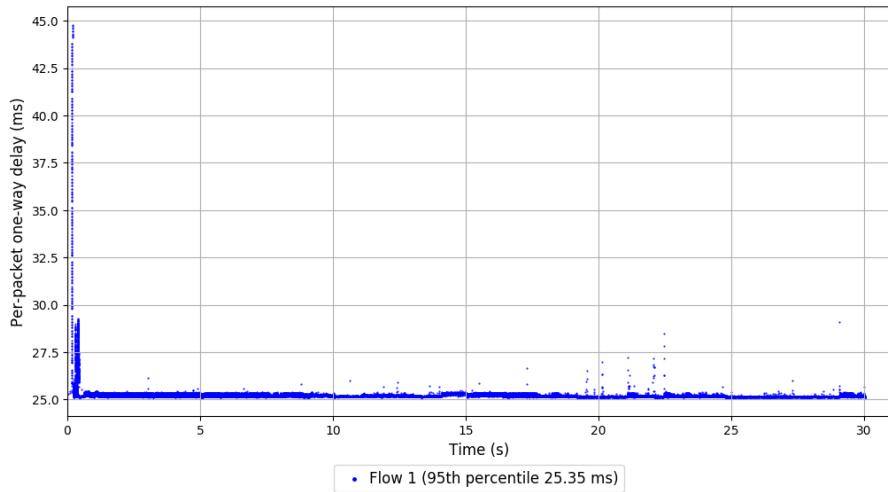
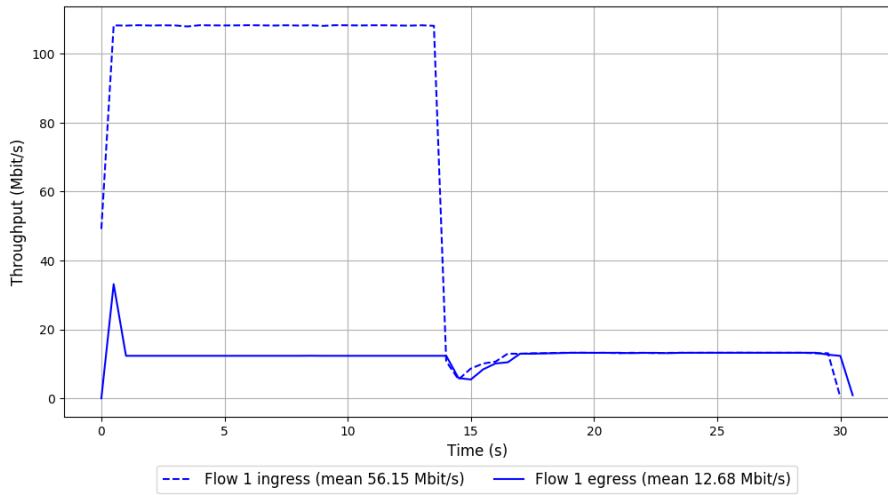


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-06-27 21:05:41
End at: 2019-06-27 21:06:11
Local clock offset: 0.292 ms
Remote clock offset: -3.114 ms

# Below is generated by plot.py at 2019-06-27 21:30:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 25.349 ms
Loss rate: 77.42%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 25.349 ms
Loss rate: 77.42%
```

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

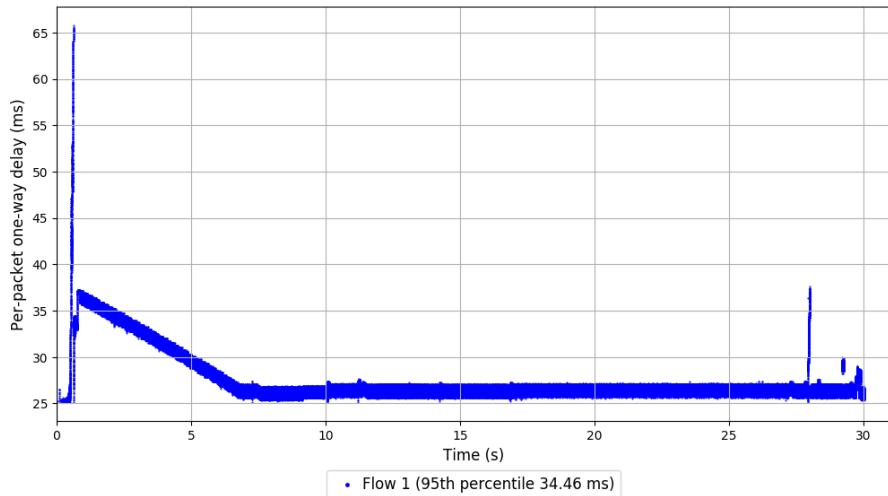
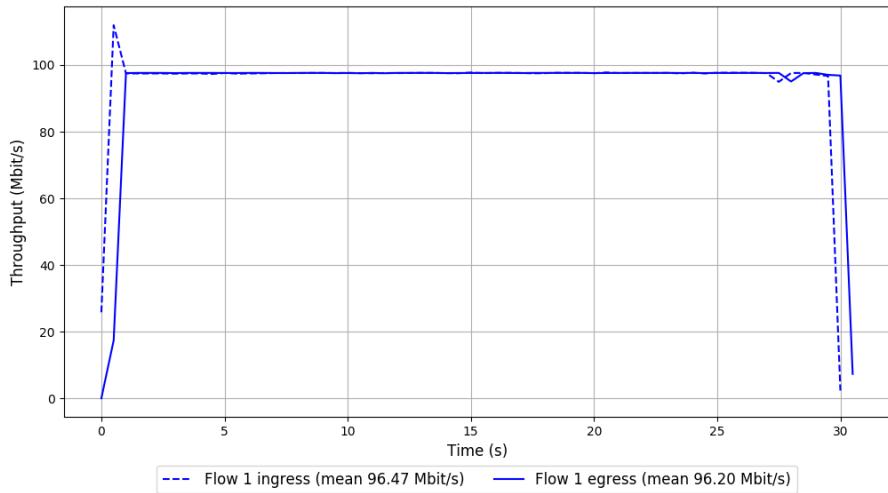


Run 1: Statistics of TCP Vegas

```
Start at: 2019-06-27 19:17:34
End at: 2019-06-27 19:18:04
Local clock offset: -0.243 ms
Remote clock offset: -5.426 ms

# Below is generated by plot.py at 2019-06-27 21:31:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 34.463 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 34.463 ms
Loss rate: 0.27%
```

Run 1: Report of TCP Vegas — Data Link

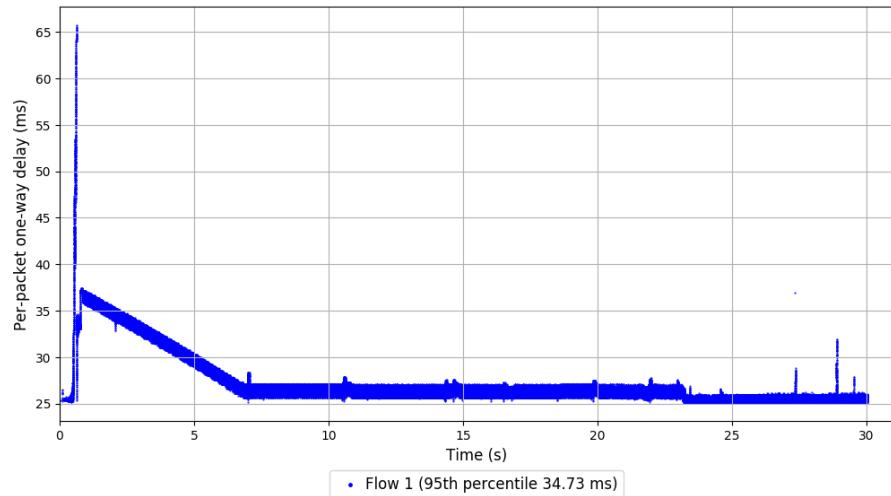
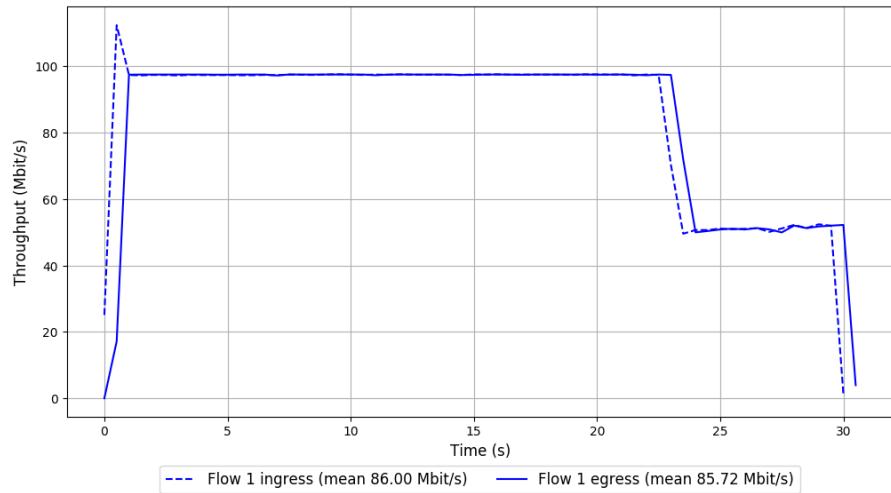


Run 2: Statistics of TCP Vegas

```
Start at: 2019-06-27 19:44:52
End at: 2019-06-27 19:45:22
Local clock offset: -0.177 ms
Remote clock offset: -4.38 ms

# Below is generated by plot.py at 2019-06-27 21:31:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 34.732 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 34.732 ms
Loss rate: 0.32%
```

Run 2: Report of TCP Vegas — Data Link

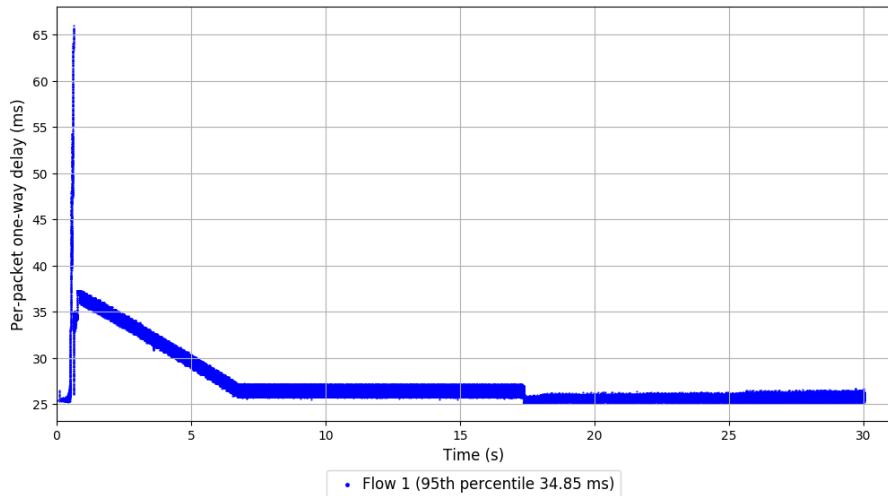
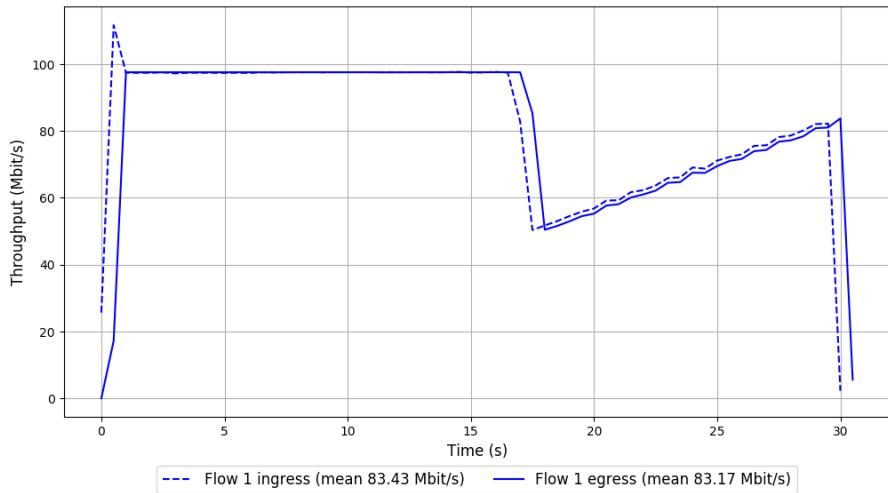


Run 3: Statistics of TCP Vegas

```
Start at: 2019-06-27 20:11:31
End at: 2019-06-27 20:12:01
Local clock offset: -2.92 ms
Remote clock offset: -3.522 ms

# Below is generated by plot.py at 2019-06-27 21:31:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.17 Mbit/s
95th percentile per-packet one-way delay: 34.854 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 83.17 Mbit/s
95th percentile per-packet one-way delay: 34.854 ms
Loss rate: 0.31%
```

Run 3: Report of TCP Vegas — Data Link

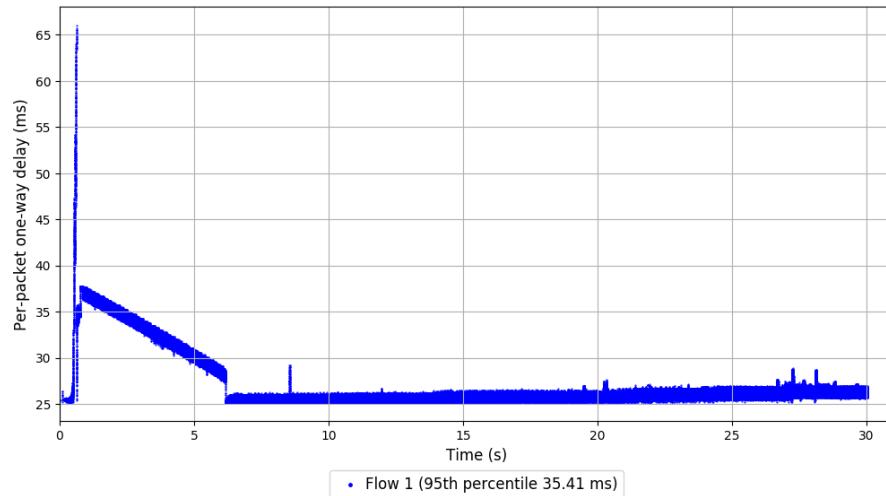
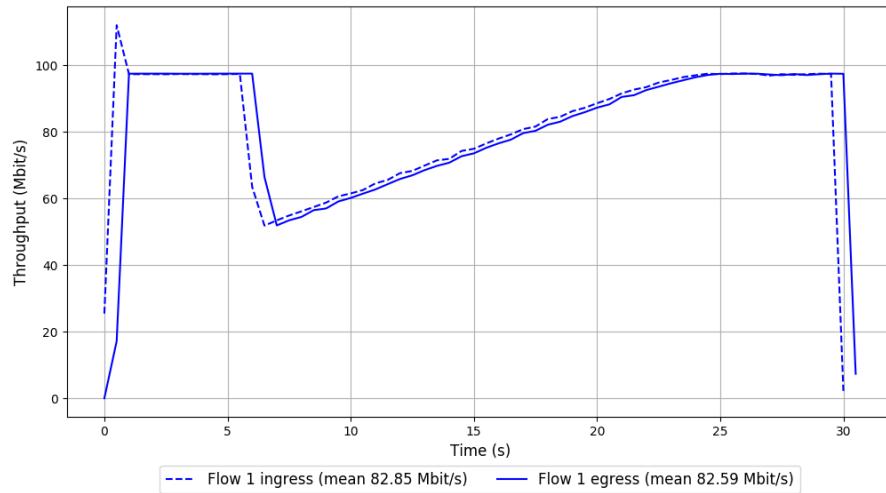


Run 4: Statistics of TCP Vegas

```
Start at: 2019-06-27 20:37:31
End at: 2019-06-27 20:38:01
Local clock offset: -0.007 ms
Remote clock offset: -3.22 ms

# Below is generated by plot.py at 2019-06-27 21:31:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.59 Mbit/s
95th percentile per-packet one-way delay: 35.408 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 82.59 Mbit/s
95th percentile per-packet one-way delay: 35.408 ms
Loss rate: 0.31%
```

Run 4: Report of TCP Vegas — Data Link

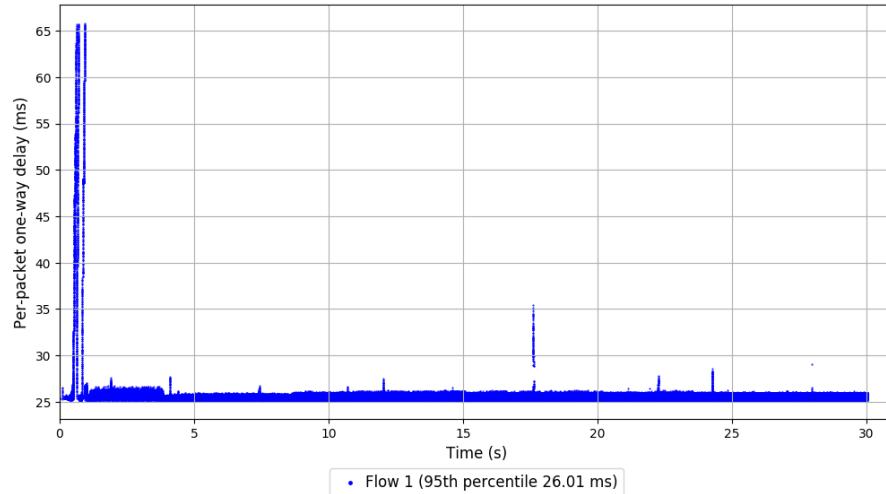
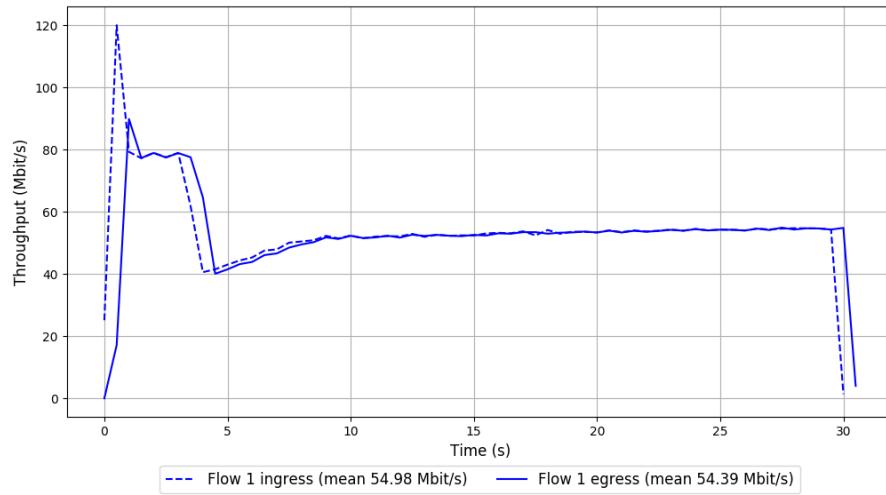


Run 5: Statistics of TCP Vegas

```
Start at: 2019-06-27 21:04:26
End at: 2019-06-27 21:04:56
Local clock offset: 0.277 ms
Remote clock offset: -3.066 ms

# Below is generated by plot.py at 2019-06-27 21:31:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.39 Mbit/s
95th percentile per-packet one-way delay: 26.013 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 54.39 Mbit/s
95th percentile per-packet one-way delay: 26.013 ms
Loss rate: 1.07%
```

Run 5: Report of TCP Vegas — Data Link

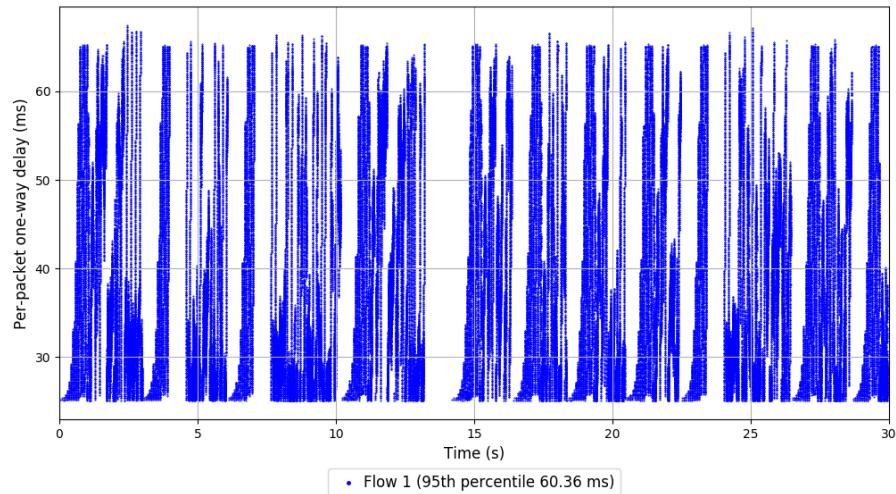
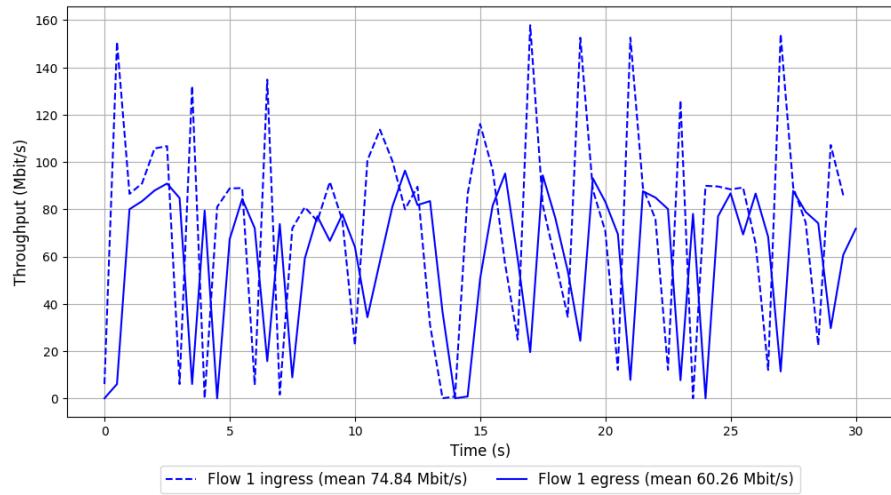


Run 1: Statistics of Verus

```
Start at: 2019-06-27 19:07:07
End at: 2019-06-27 19:07:37
Local clock offset: 0.283 ms
Remote clock offset: -5.511 ms

# Below is generated by plot.py at 2019-06-27 21:31:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.26 Mbit/s
95th percentile per-packet one-way delay: 60.362 ms
Loss rate: 19.48%
-- Flow 1:
Average throughput: 60.26 Mbit/s
95th percentile per-packet one-way delay: 60.362 ms
Loss rate: 19.48%
```

Run 1: Report of Verus — Data Link

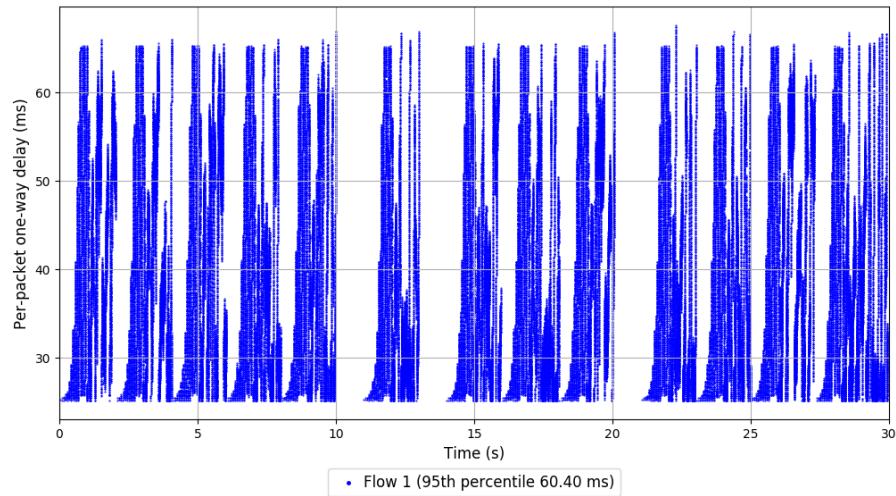
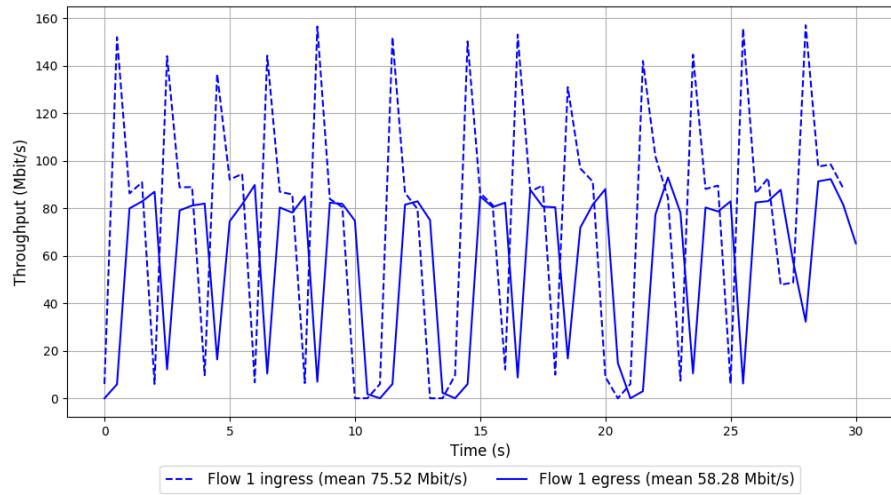


Run 2: Statistics of Verus

```
Start at: 2019-06-27 19:33:47
End at: 2019-06-27 19:34:17
Local clock offset: -0.081 ms
Remote clock offset: -4.708 ms

# Below is generated by plot.py at 2019-06-27 21:31:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.28 Mbit/s
95th percentile per-packet one-way delay: 60.400 ms
Loss rate: 22.81%
-- Flow 1:
Average throughput: 58.28 Mbit/s
95th percentile per-packet one-way delay: 60.400 ms
Loss rate: 22.81%
```

Run 2: Report of Verus — Data Link

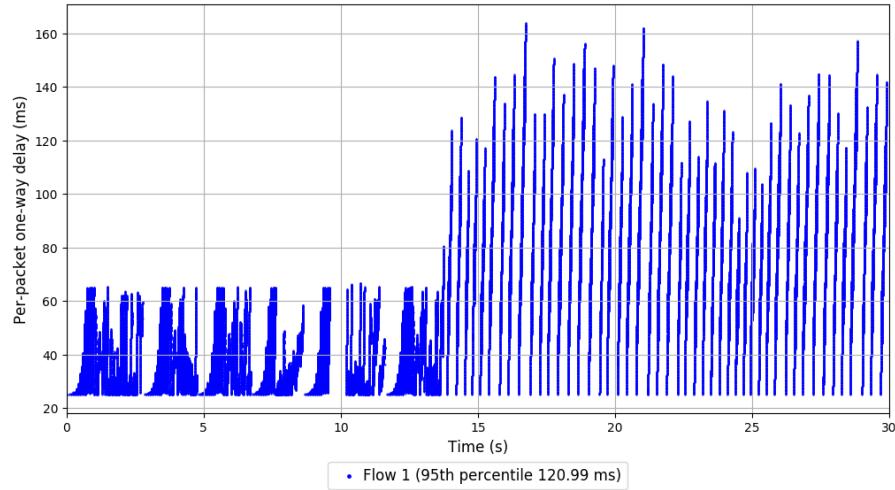
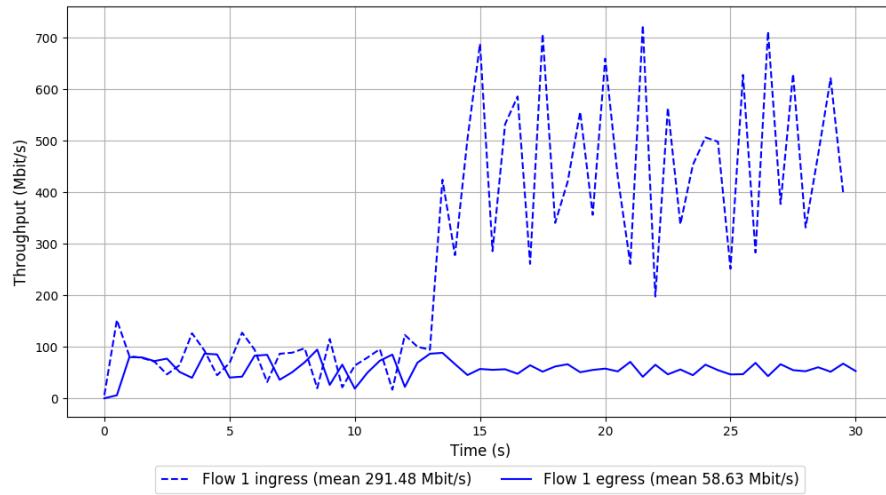


Run 3: Statistics of Verus

```
Start at: 2019-06-27 20:00:49
End at: 2019-06-27 20:01:19
Local clock offset: -2.197 ms
Remote clock offset: -3.818 ms

# Below is generated by plot.py at 2019-06-27 21:32:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.63 Mbit/s
95th percentile per-packet one-way delay: 120.994 ms
Loss rate: 79.82%
-- Flow 1:
Average throughput: 58.63 Mbit/s
95th percentile per-packet one-way delay: 120.994 ms
Loss rate: 79.82%
```

Run 3: Report of Verus — Data Link

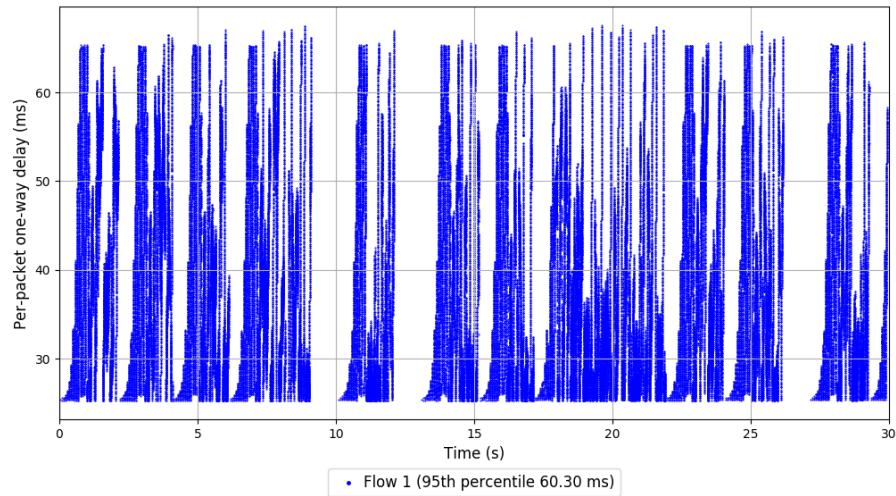
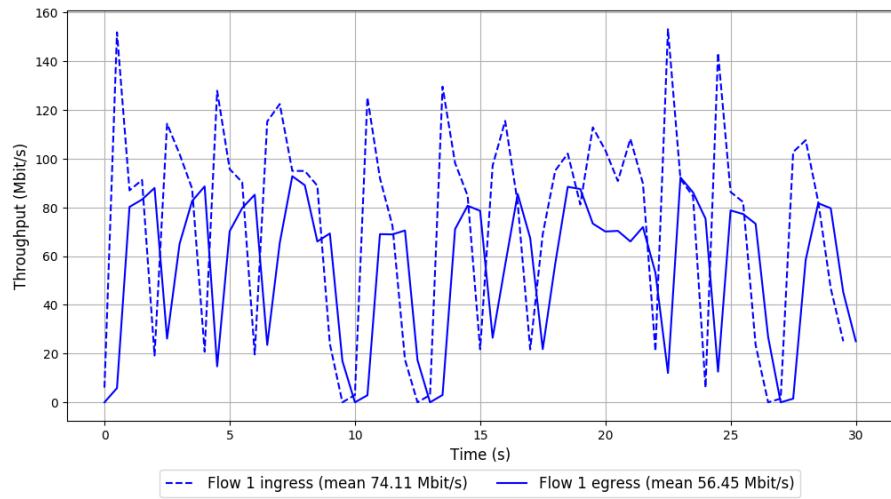


Run 4: Statistics of Verus

```
Start at: 2019-06-27 20:26:54
End at: 2019-06-27 20:27:24
Local clock offset: -0.971 ms
Remote clock offset: -3.376 ms

# Below is generated by plot.py at 2019-06-27 21:32:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.45 Mbit/s
95th percentile per-packet one-way delay: 60.301 ms
Loss rate: 23.74%
-- Flow 1:
Average throughput: 56.45 Mbit/s
95th percentile per-packet one-way delay: 60.301 ms
Loss rate: 23.74%
```

Run 4: Report of Verus — Data Link

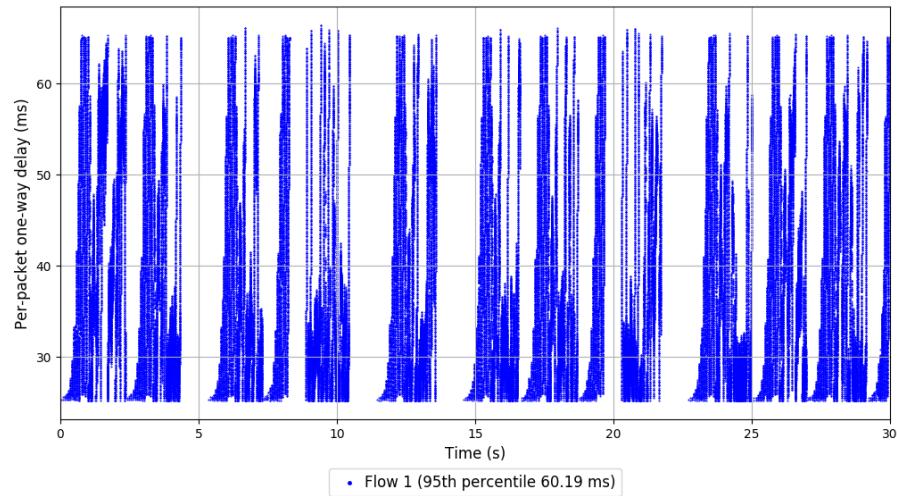
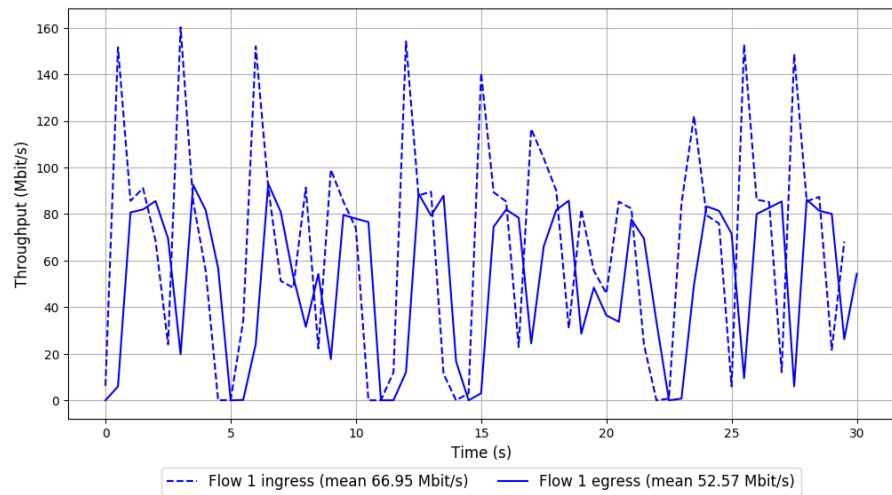


Run 5: Statistics of Verus

```
Start at: 2019-06-27 20:53:38
End at: 2019-06-27 20:54:09
Local clock offset: 0.294 ms
Remote clock offset: -2.973 ms

# Below is generated by plot.py at 2019-06-27 21:32:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.57 Mbit/s
95th percentile per-packet one-way delay: 60.186 ms
Loss rate: 21.37%
-- Flow 1:
Average throughput: 52.57 Mbit/s
95th percentile per-packet one-way delay: 60.186 ms
Loss rate: 21.37%
```

Run 5: Report of Verus — Data Link

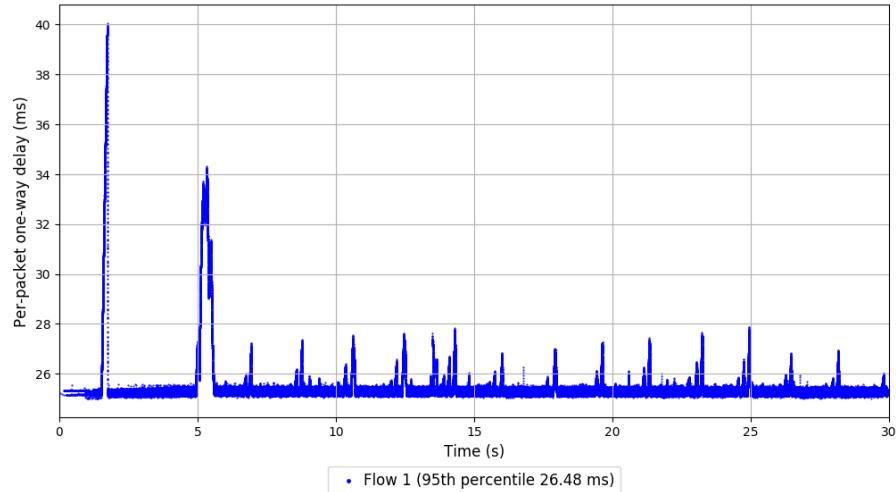
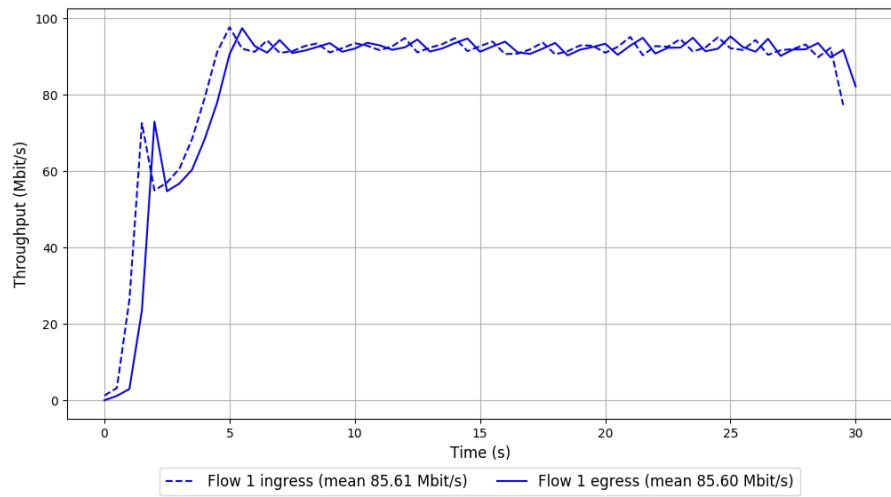


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-06-27 19:08:17
End at: 2019-06-27 19:08:47
Local clock offset: 0.213 ms
Remote clock offset: -5.492 ms

# Below is generated by plot.py at 2019-06-27 21:32:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.60 Mbit/s
95th percentile per-packet one-way delay: 26.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.60 Mbit/s
95th percentile per-packet one-way delay: 26.483 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

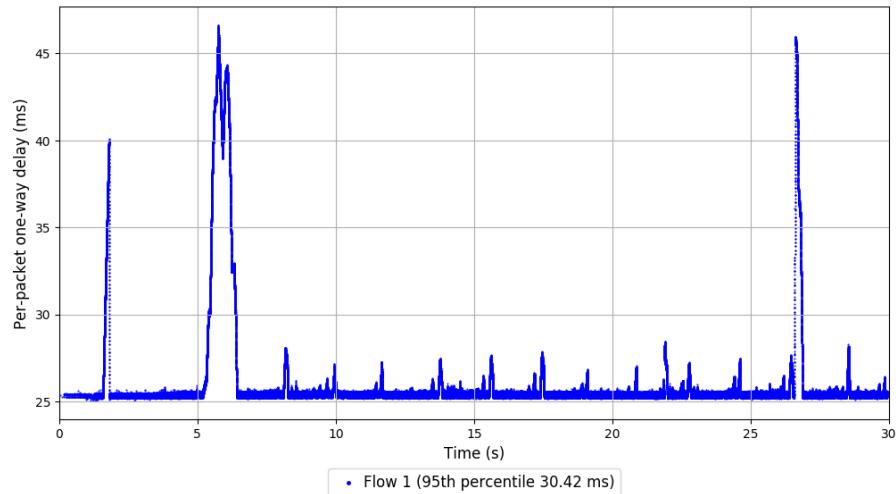
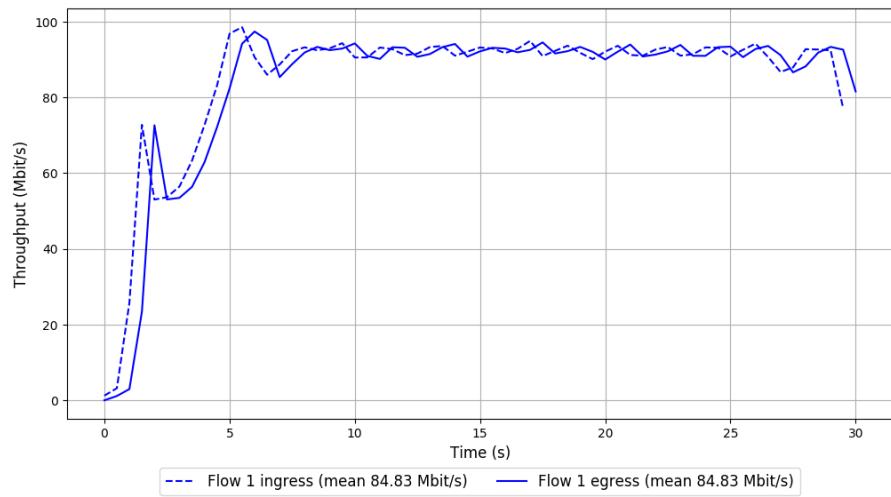


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-06-27 19:35:01
End at: 2019-06-27 19:35:31
Local clock offset: -0.092 ms
Remote clock offset: -4.67 ms

# Below is generated by plot.py at 2019-06-27 21:32:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.83 Mbit/s
95th percentile per-packet one-way delay: 30.422 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.83 Mbit/s
95th percentile per-packet one-way delay: 30.422 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

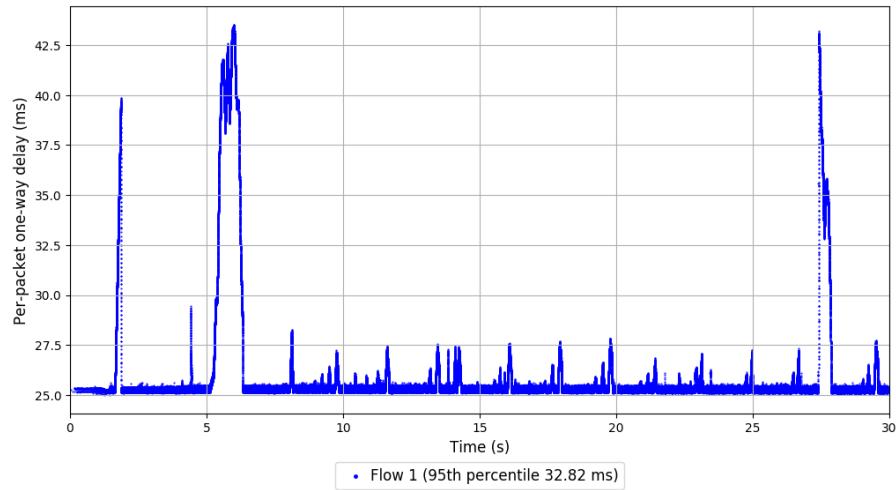
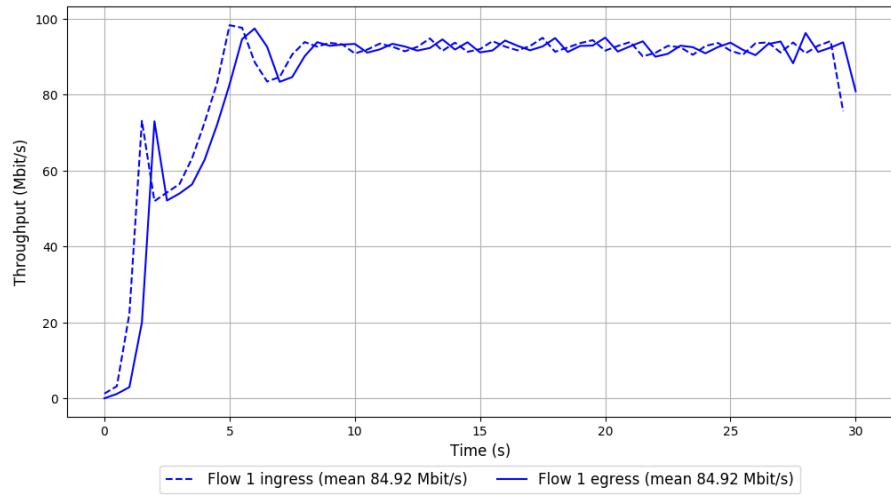


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-06-27 20:02:05
End at: 2019-06-27 20:02:35
Local clock offset: -2.29 ms
Remote clock offset: -3.753 ms

# Below is generated by plot.py at 2019-06-27 21:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.92 Mbit/s
95th percentile per-packet one-way delay: 32.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.92 Mbit/s
95th percentile per-packet one-way delay: 32.820 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

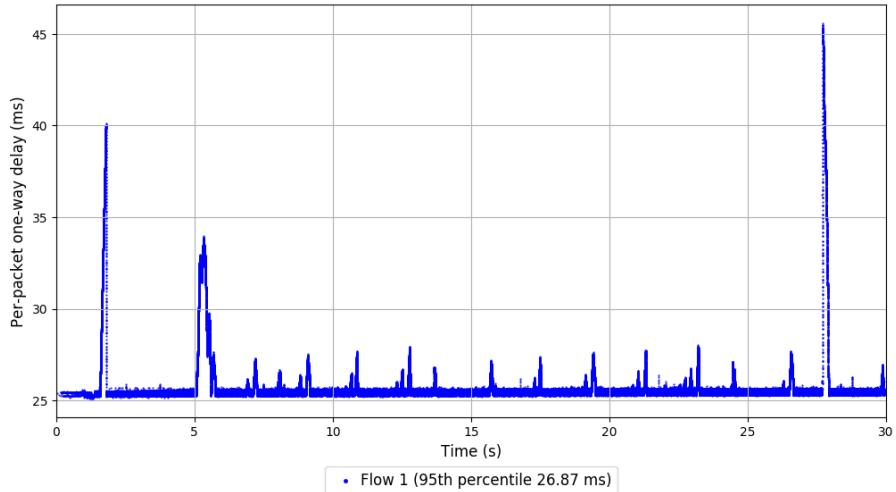
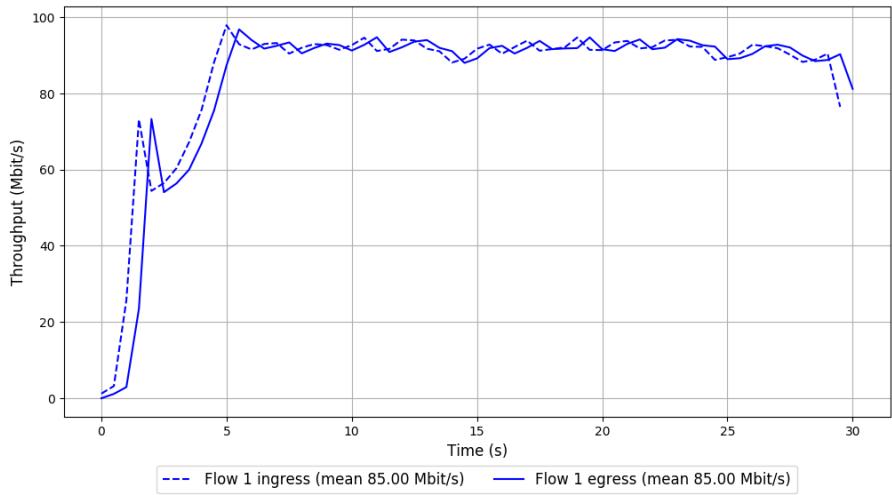


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-06-27 20:28:05
End at: 2019-06-27 20:28:35
Local clock offset: -0.788 ms
Remote clock offset: -3.377 ms

# Below is generated by plot.py at 2019-06-27 21:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.00 Mbit/s
95th percentile per-packet one-way delay: 26.874 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.00 Mbit/s
95th percentile per-packet one-way delay: 26.874 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

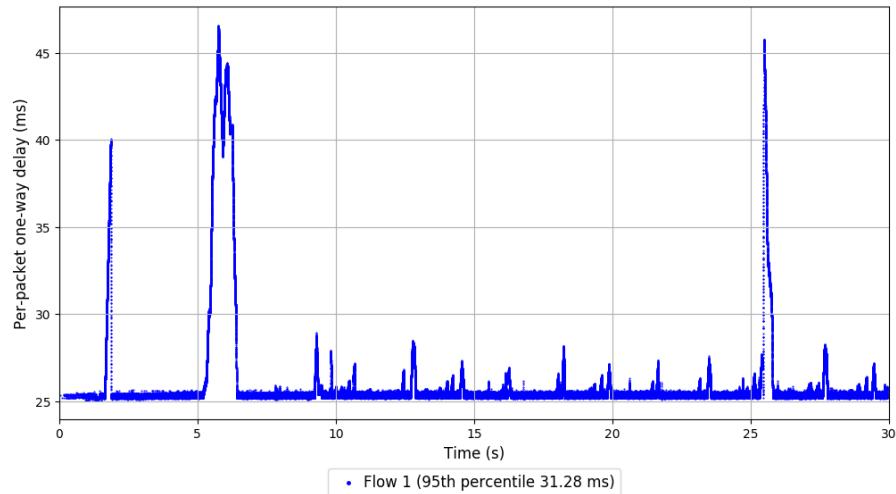
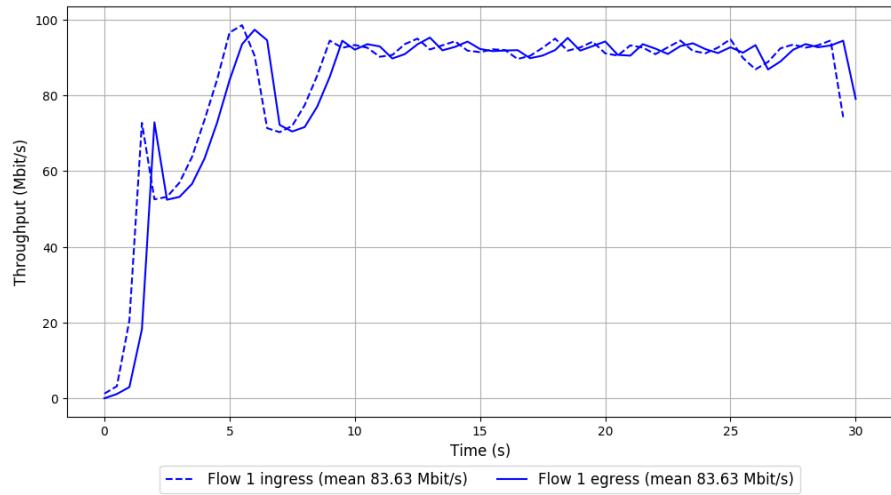


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-06-27 20:54:49
End at: 2019-06-27 20:55:19
Local clock offset: 0.275 ms
Remote clock offset: -2.996 ms

# Below is generated by plot.py at 2019-06-27 21:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.63 Mbit/s
95th percentile per-packet one-way delay: 31.280 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.63 Mbit/s
95th percentile per-packet one-way delay: 31.280 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

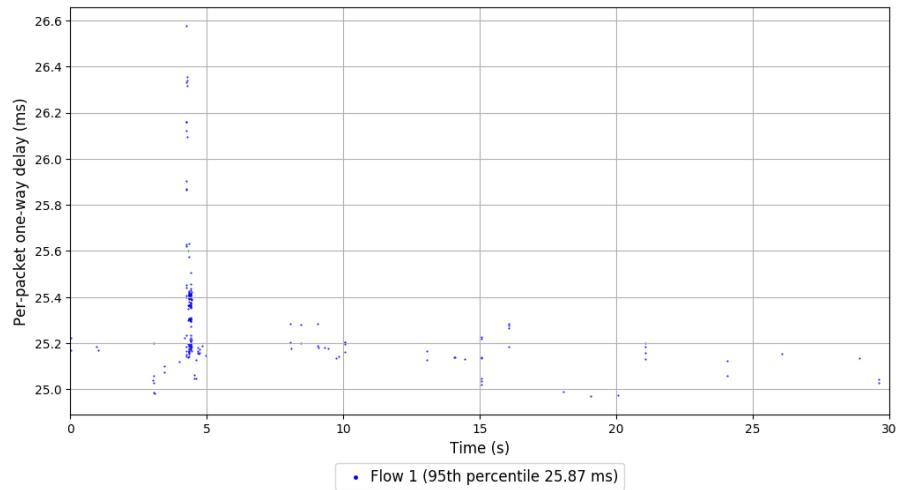
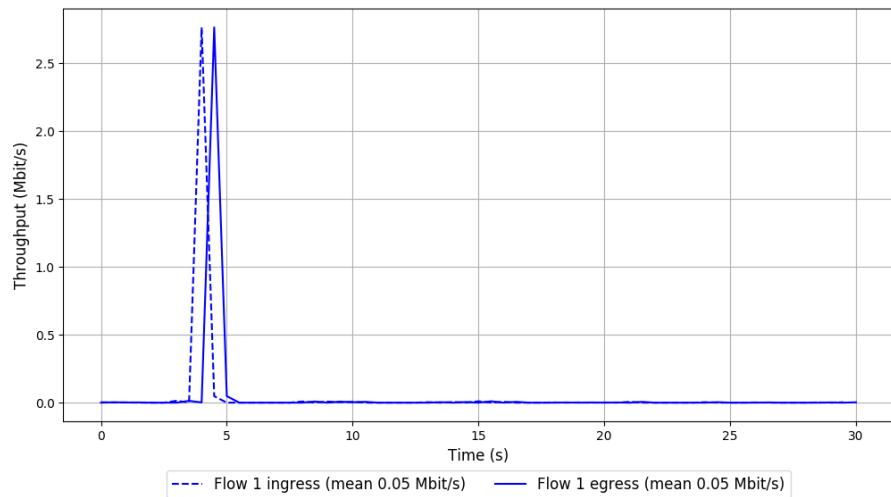


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-06-27 19:09:29
End at: 2019-06-27 19:09:59
Local clock offset: 0.106 ms
Remote clock offset: -5.463 ms

# Below is generated by plot.py at 2019-06-27 21:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.869 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

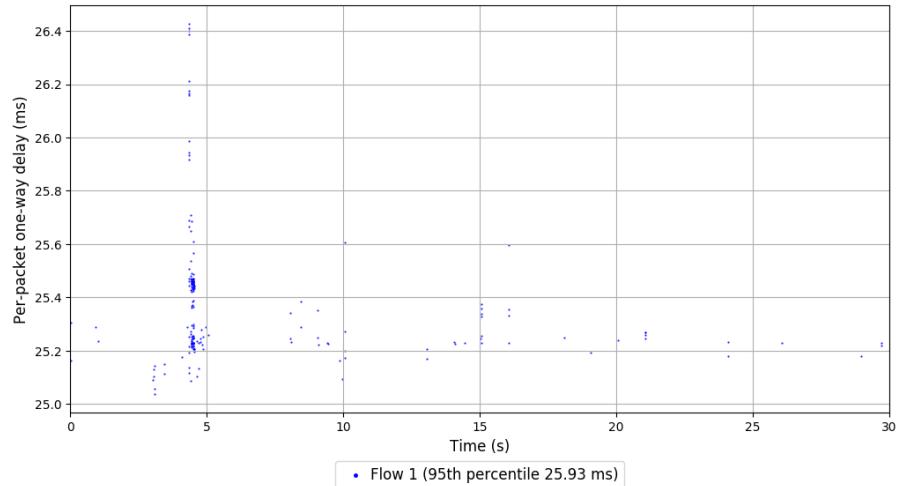
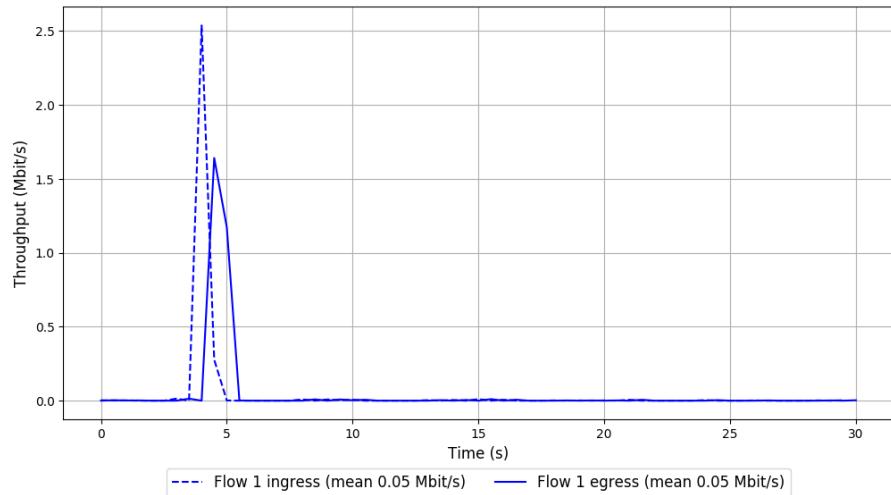


Run 2: Statistics of WebRTC media

```
Start at: 2019-06-27 19:36:21
End at: 2019-06-27 19:36:51
Local clock offset: -0.104 ms
Remote clock offset: -4.586 ms

# Below is generated by plot.py at 2019-06-27 21:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.934 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.934 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

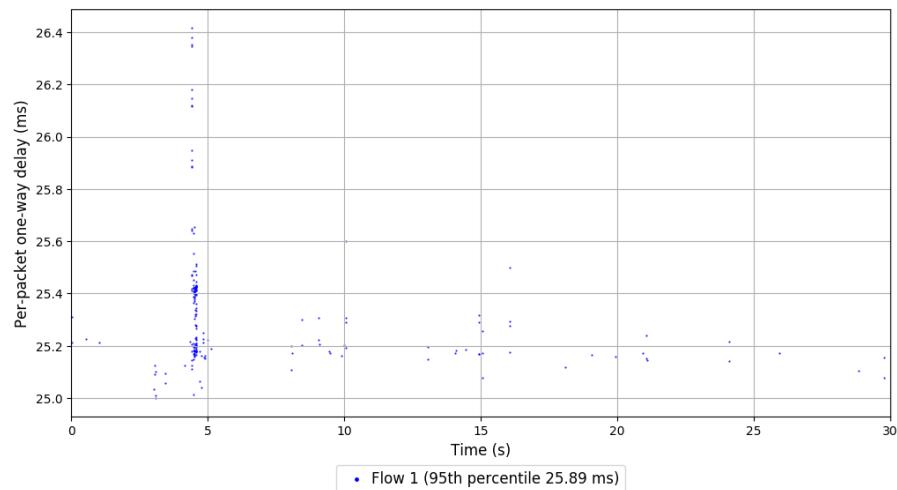
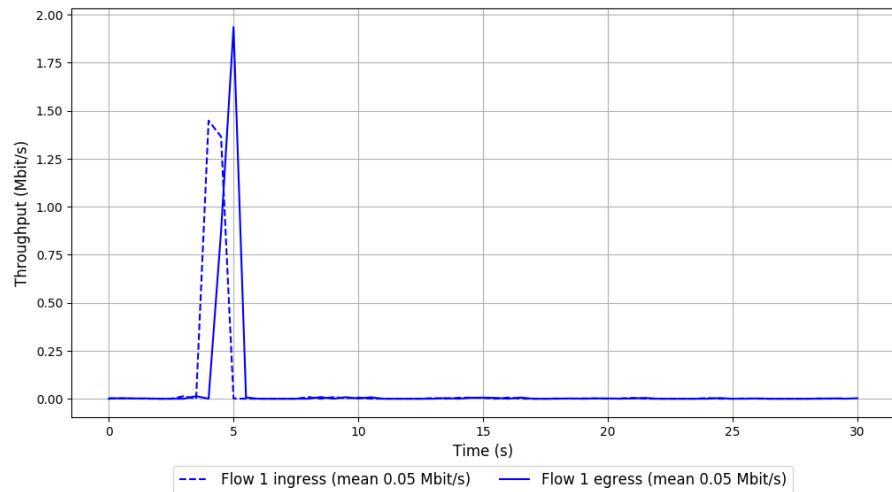


```
Run 3: Statistics of WebRTC media

Start at: 2019-06-27 20:03:21
End at: 2019-06-27 20:03:51
Local clock offset: -2.422 ms
Remote clock offset: -3.825 ms

# Below is generated by plot.py at 2019-06-27 21:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.888 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.888 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

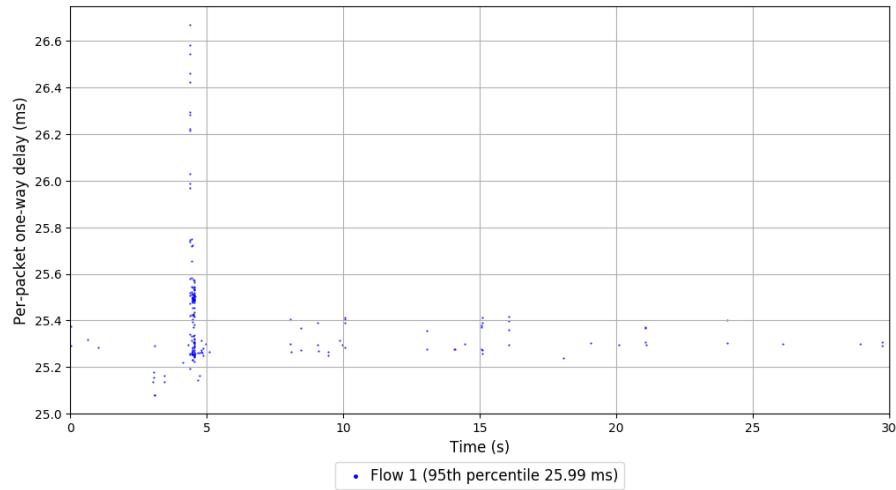
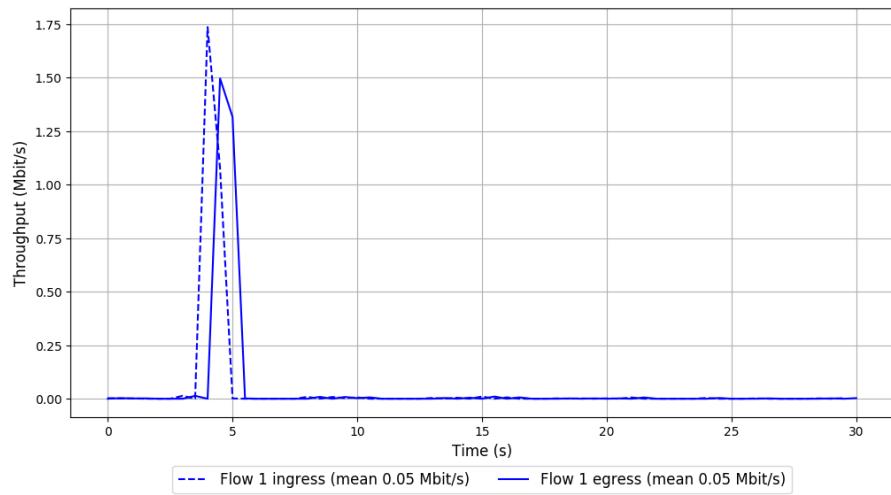


Run 4: Statistics of WebRTC media

```
Start at: 2019-06-27 20:29:19
End at: 2019-06-27 20:29:49
Local clock offset: -0.645 ms
Remote clock offset: -3.331 ms

# Below is generated by plot.py at 2019-06-27 21:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.987 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.987 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-06-27 20:56:02
End at: 2019-06-27 20:56:32
Local clock offset: 0.271 ms
Remote clock offset: -2.975 ms

# Below is generated by plot.py at 2019-06-27 21:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.984 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.984 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

