

Pantheon Report

Generated at 2019-01-21 23:36:57 (UTC).
Data path: Mexico on `em1` (*remote*) → AWS California 2 on `ens5` (*local*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

System info:

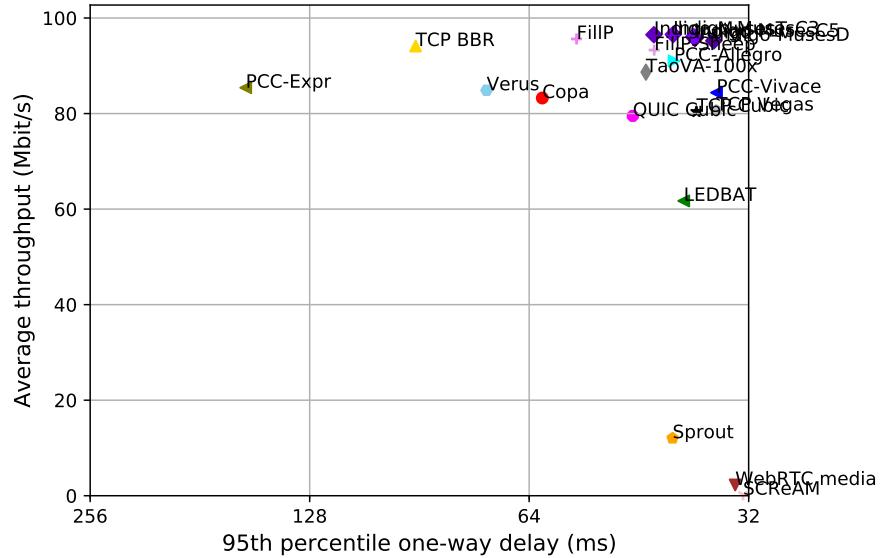
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

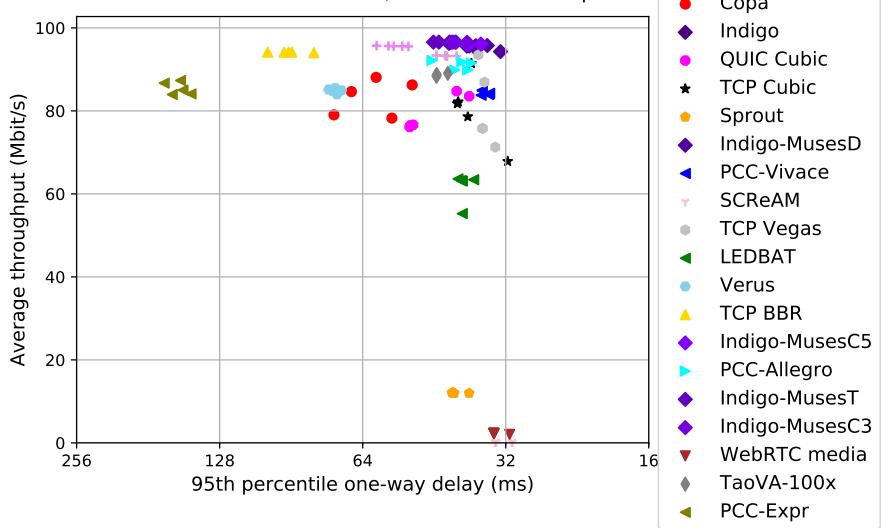
```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



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



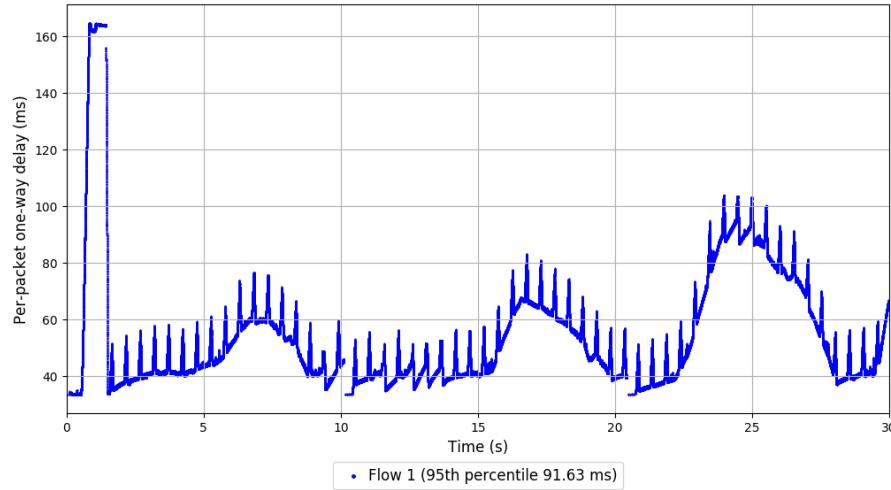
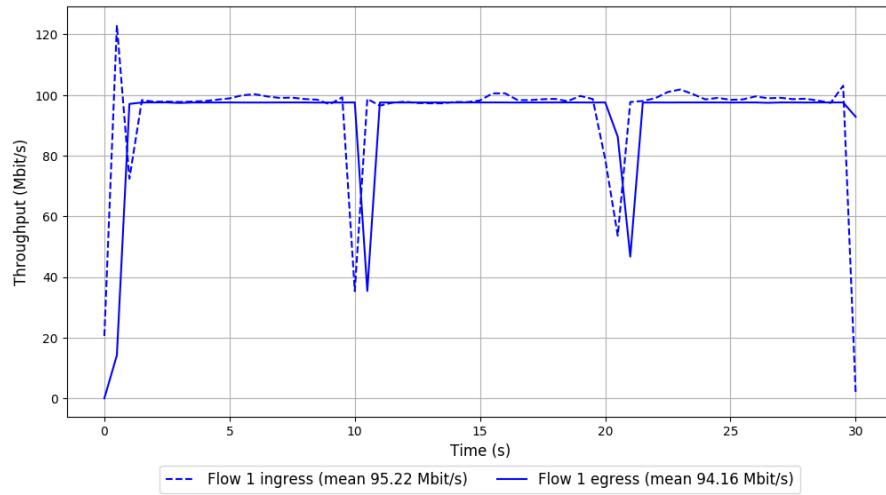
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	94.13	91.60	1.78
Copa	5	83.25	61.40	0.33
TCP Cubic	5	80.37	37.73	0.25
FillP	5	95.61	55.10	0.32
FillP-Sheep	5	93.29	43.12	0.25
Indigo	5	95.74	37.91	0.23
Indigo-MusesC3	5	96.56	40.61	0.24
Indigo-MusesC5	5	96.09	38.06	0.24
Indigo-MusesD	5	95.22	35.73	0.23
Indigo-MusesT	5	96.50	43.16	0.70
LEDBAT	5	61.72	39.28	0.17
PCC-Allegro	5	91.03	40.50	0.25
PCC-Expr	5	85.41	156.65	0.35
QUIC Cubic	5	79.52	46.14	0.28
SCReAM	5	0.21	32.57	0.21
Sprout	5	12.05	40.69	0.22
TaoVA-100x	5	88.67	44.26	0.25
TCP Vegas	5	80.65	35.46	0.29
Verus	5	84.87	73.21	0.49
PCC-Vivace	5	84.37	35.43	0.24
WebRTC media	5	2.25	33.39	0.25

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-21 21:22:01
End at: 2019-01-21 21:22:32
Local clock offset: 0.492 ms
Remote clock offset: -1.754 ms

# Below is generated by plot.py at 2019-01-21 23:24:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 91.632 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 91.632 ms
Loss rate: 1.32%
```

Run 1: Report of TCP BBR — Data Link

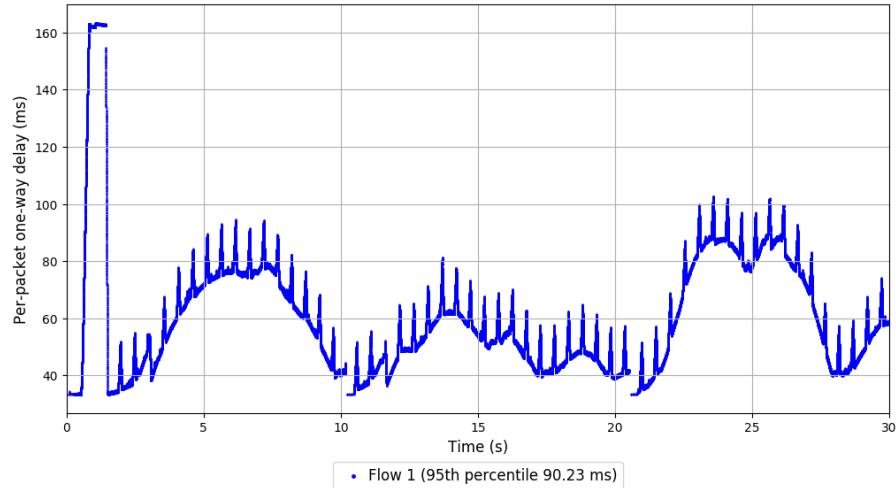
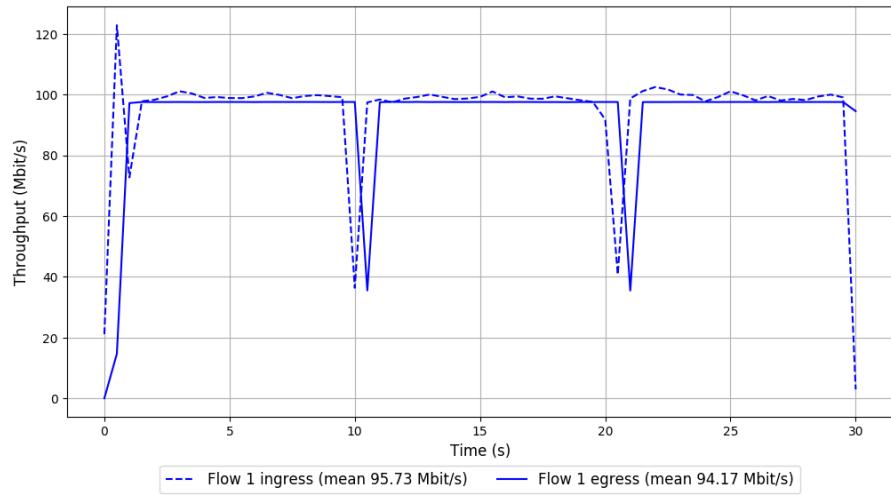


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-21 21:49:21
End at: 2019-01-21 21:49:51
Local clock offset: 0.029 ms
Remote clock offset: -0.803 ms

# Below is generated by plot.py at 2019-01-21 23:24:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 90.232 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 90.232 ms
Loss rate: 1.83%
```

Run 2: Report of TCP BBR — Data Link

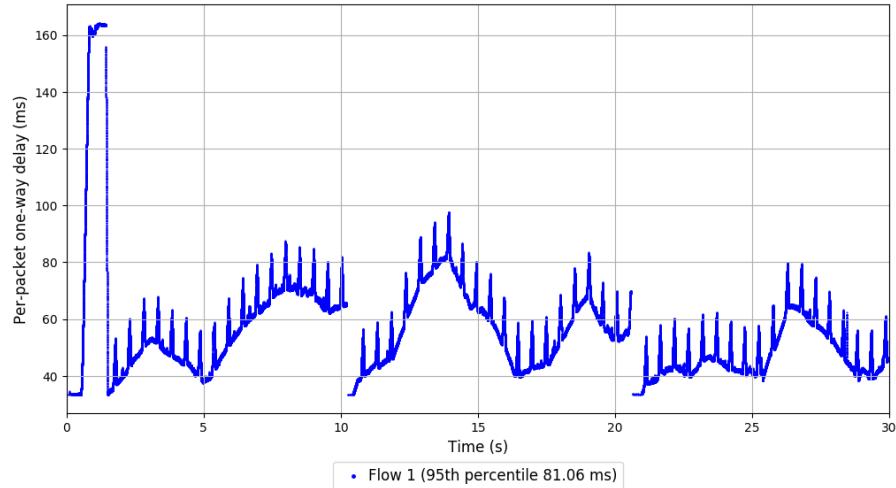
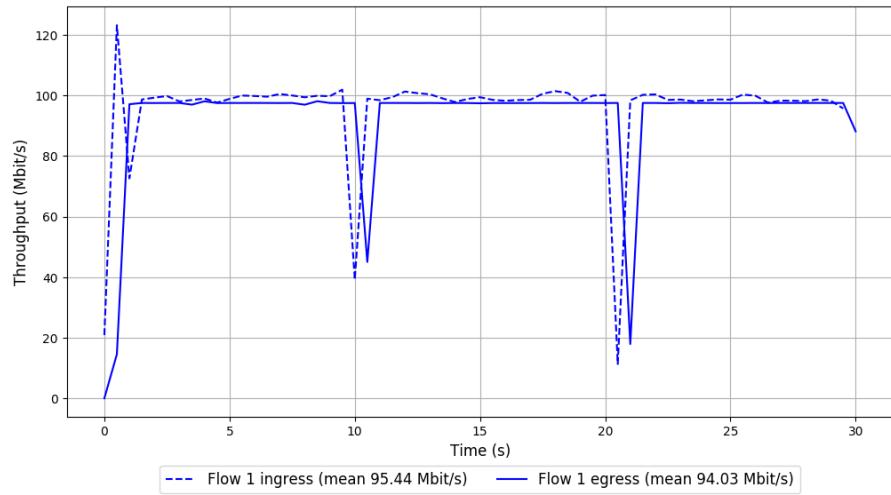


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-21 22:17:20
End at: 2019-01-21 22:17:50
Local clock offset: 0.506 ms
Remote clock offset: -0.229 ms

# Below is generated by plot.py at 2019-01-21 23:24:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.03 Mbit/s
95th percentile per-packet one-way delay: 81.063 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 94.03 Mbit/s
95th percentile per-packet one-way delay: 81.063 ms
Loss rate: 1.68%
```

Run 3: Report of TCP BBR — Data Link

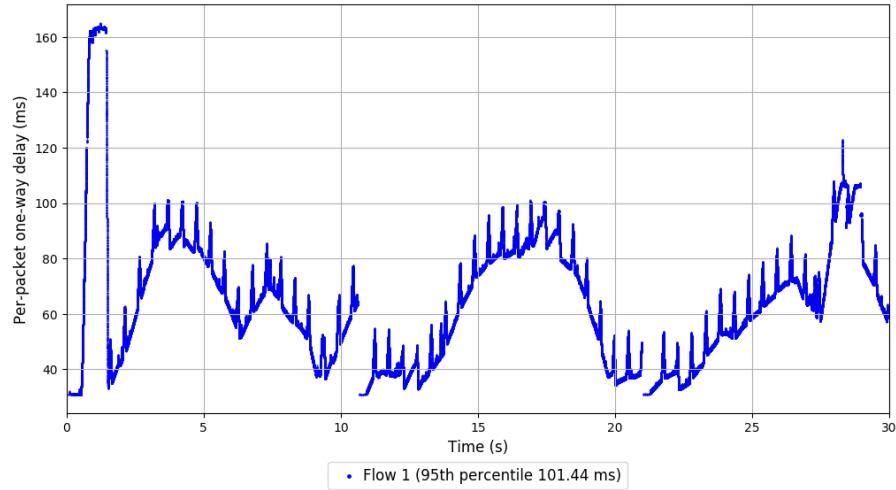
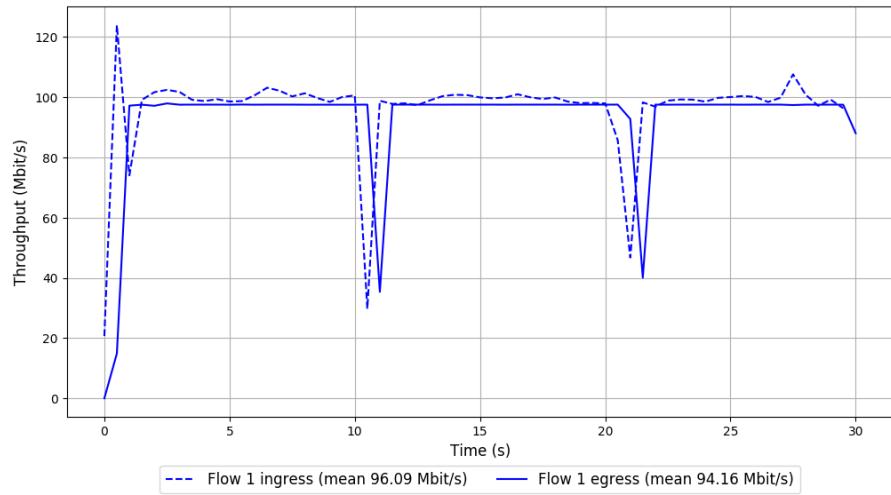


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-21 22:45:20
End at: 2019-01-21 22:45:50
Local clock offset: 0.896 ms
Remote clock offset: 2.231 ms

# Below is generated by plot.py at 2019-01-21 23:24:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 101.441 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 101.441 ms
Loss rate: 2.21%
```

Run 4: Report of TCP BBR — Data Link

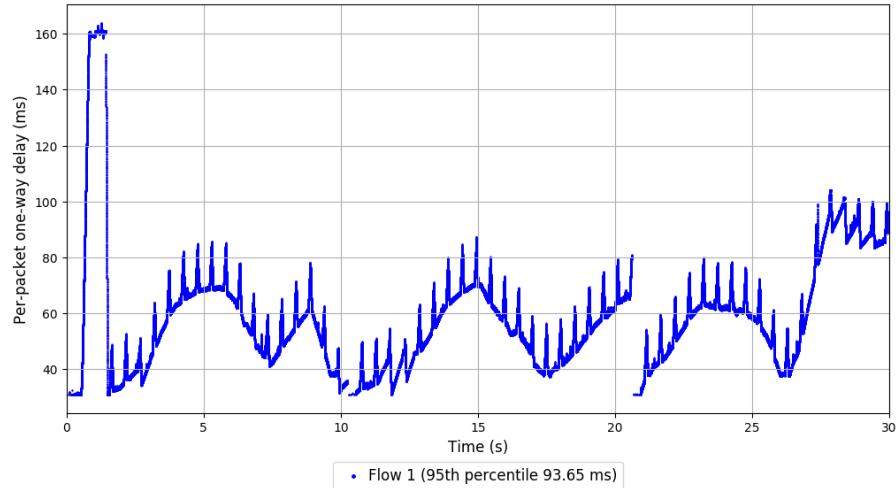
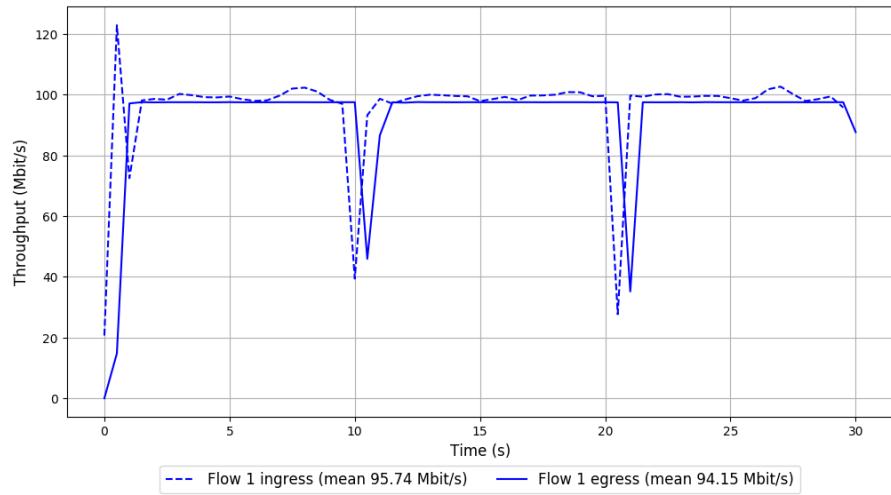


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-21 23:13:57
End at: 2019-01-21 23:14:27
Local clock offset: -0.255 ms
Remote clock offset: 1.362 ms

# Below is generated by plot.py at 2019-01-21 23:24:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 93.650 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 93.650 ms
Loss rate: 1.86%
```

Run 5: Report of TCP BBR — Data Link

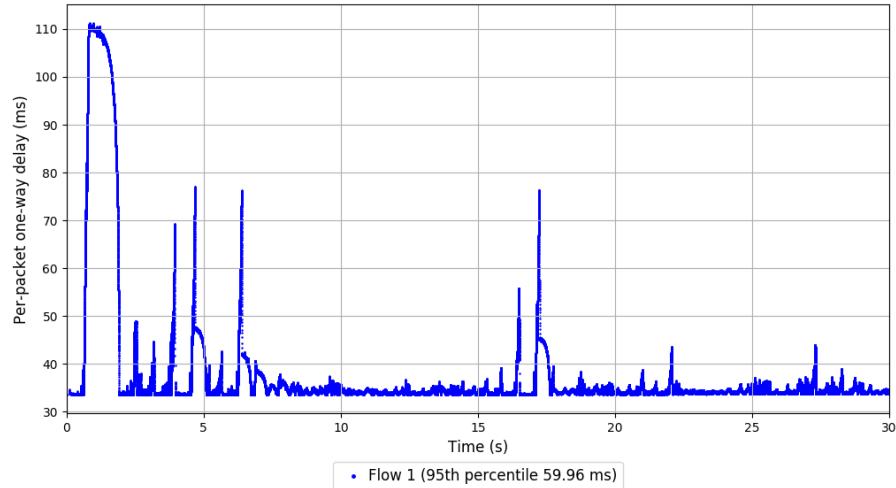
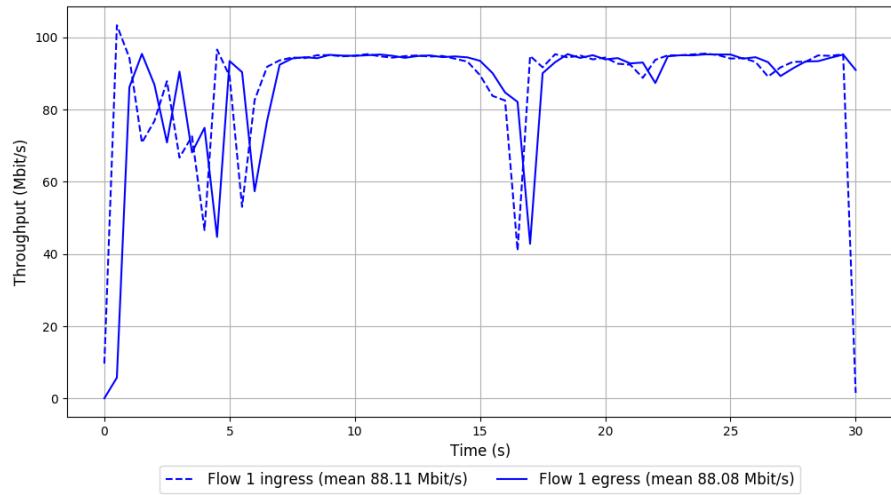


Run 1: Statistics of Copa

```
Start at: 2019-01-21 21:16:41
End at: 2019-01-21 21:17:11
Local clock offset: 0.91 ms
Remote clock offset: -2.098 ms

# Below is generated by plot.py at 2019-01-21 23:25:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.08 Mbit/s
95th percentile per-packet one-way delay: 59.960 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 88.08 Mbit/s
95th percentile per-packet one-way delay: 59.960 ms
Loss rate: 0.25%
```

Run 1: Report of Copa — Data Link

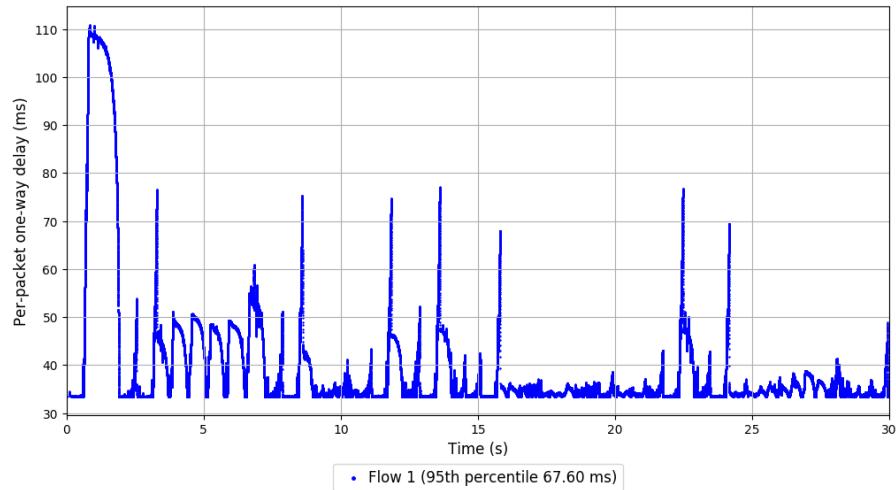
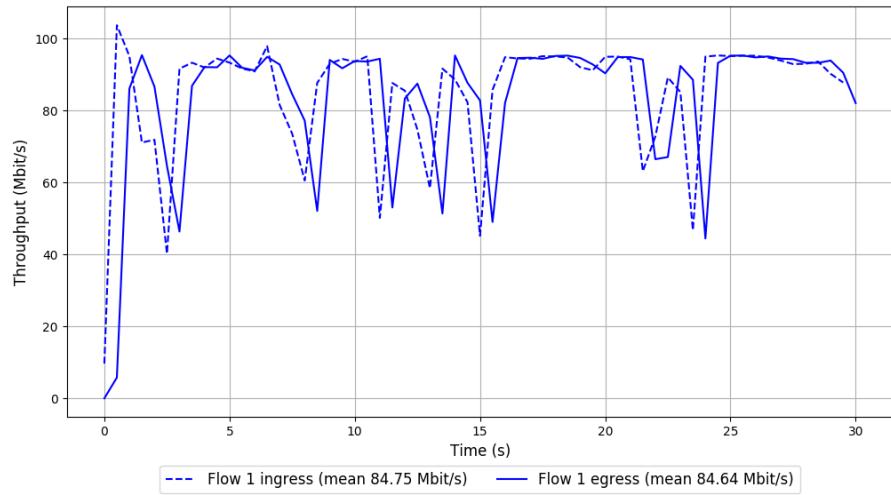


Run 2: Statistics of Copa

```
Start at: 2019-01-21 21:43:49
End at: 2019-01-21 21:44:19
Local clock offset: -0.13 ms
Remote clock offset: -0.984 ms

# Below is generated by plot.py at 2019-01-21 23:25:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.64 Mbit/s
95th percentile per-packet one-way delay: 67.600 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 84.64 Mbit/s
95th percentile per-packet one-way delay: 67.600 ms
Loss rate: 0.34%
```

Run 2: Report of Copa — Data Link

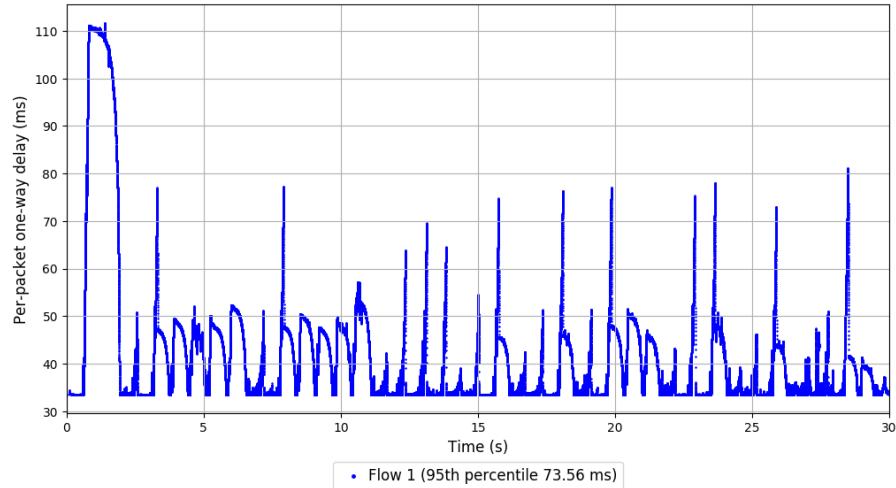
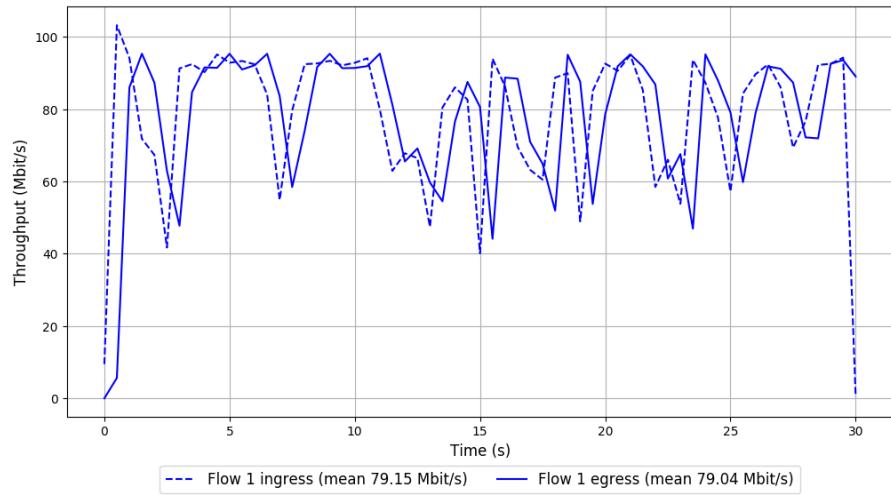


Run 3: Statistics of Copa

```
Start at: 2019-01-21 22:11:43
End at: 2019-01-21 22:12:13
Local clock offset: 0.448 ms
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2019-01-21 23:25:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.04 Mbit/s
95th percentile per-packet one-way delay: 73.556 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 79.04 Mbit/s
95th percentile per-packet one-way delay: 73.556 ms
Loss rate: 0.36%
```

Run 3: Report of Copa — Data Link

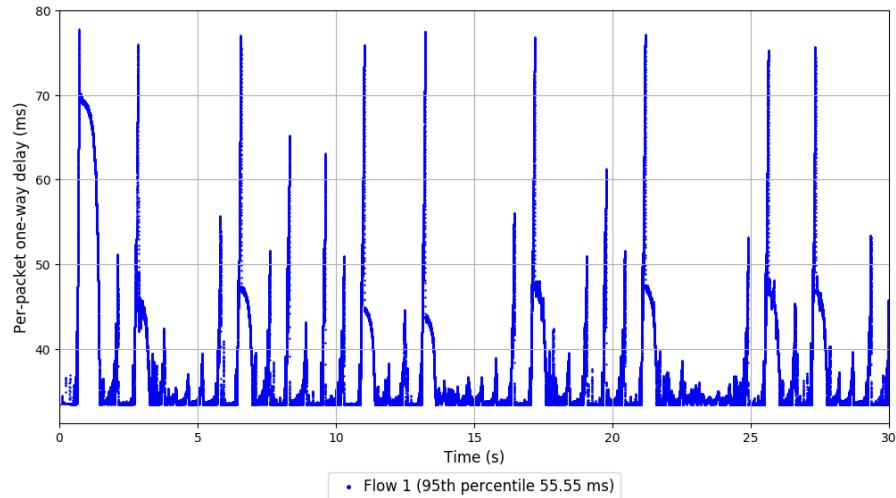
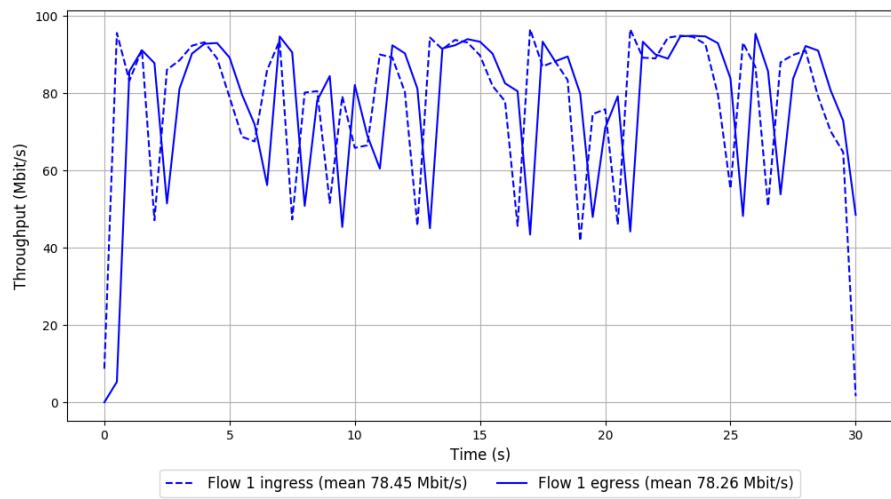


Run 4: Statistics of Copa

```
Start at: 2019-01-21 22:40:00
End at: 2019-01-21 22:40:30
Local clock offset: 0.849 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-01-21 23:26:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.26 Mbit/s
95th percentile per-packet one-way delay: 55.551 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 78.26 Mbit/s
95th percentile per-packet one-way delay: 55.551 ms
Loss rate: 0.46%
```

Run 4: Report of Copa — Data Link

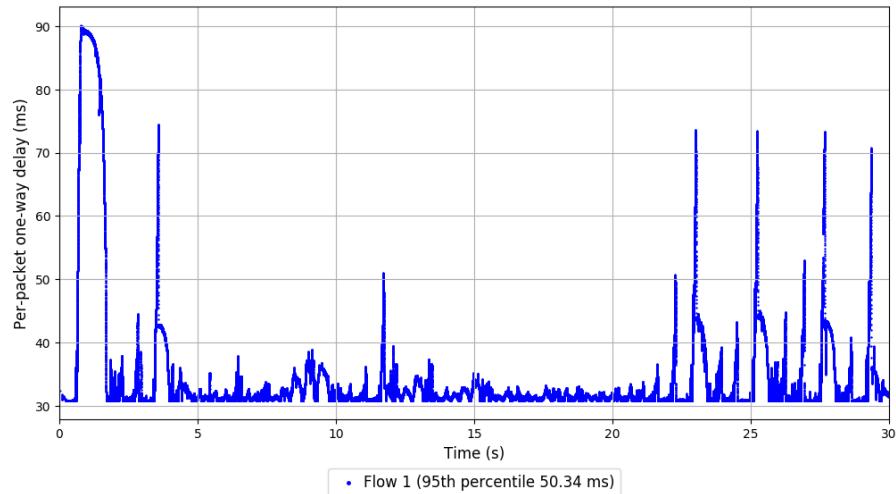
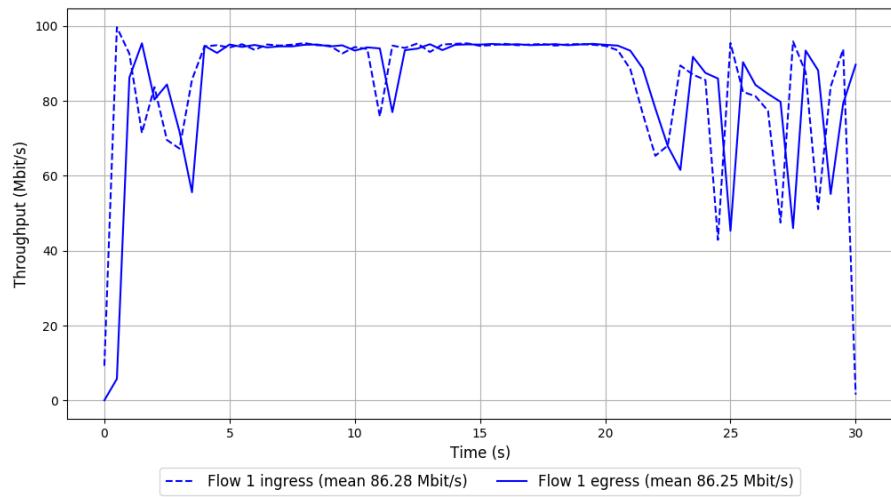


Run 5: Statistics of Copa

```
Start at: 2019-01-21 23:08:23
End at: 2019-01-21 23:08:53
Local clock offset: -0.164 ms
Remote clock offset: 1.549 ms

# Below is generated by plot.py at 2019-01-21 23:26:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.25 Mbit/s
95th percentile per-packet one-way delay: 50.342 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 86.25 Mbit/s
95th percentile per-packet one-way delay: 50.342 ms
Loss rate: 0.25%
```

Run 5: Report of Copa — Data Link

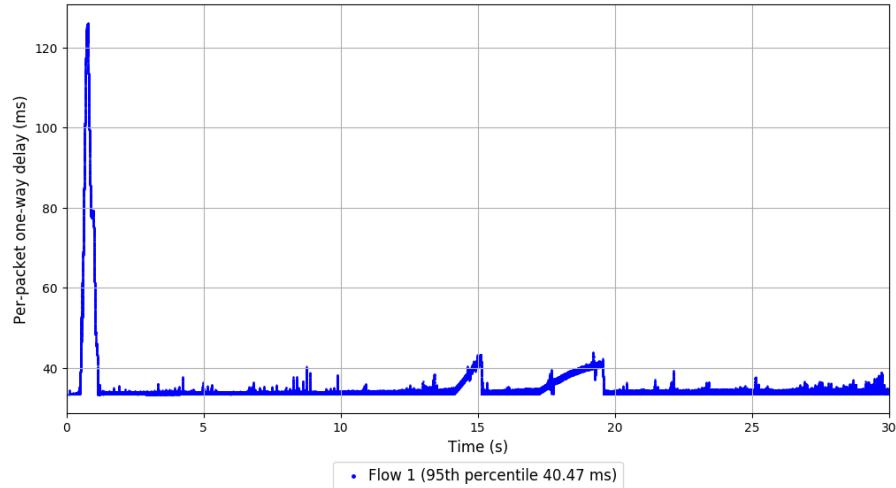
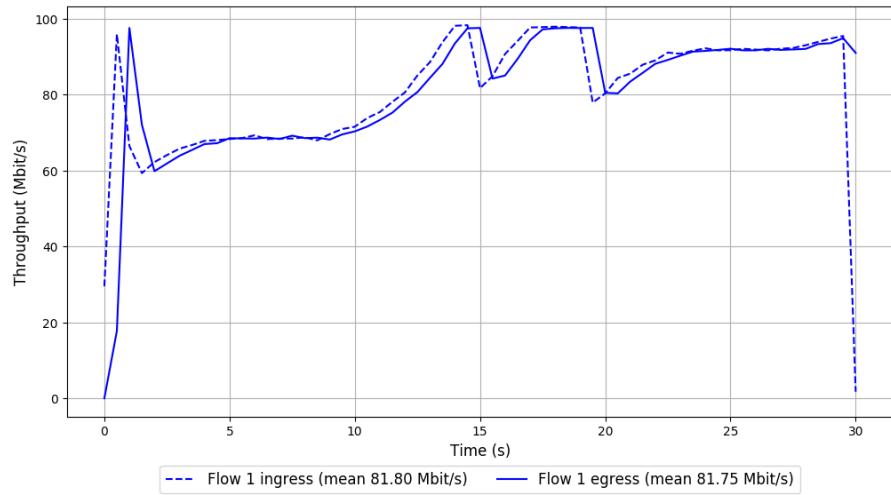


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-21 21:23:19
End at: 2019-01-21 21:23:49
Local clock offset: 0.413 ms
Remote clock offset: -1.763 ms

# Below is generated by plot.py at 2019-01-21 23:26:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.75 Mbit/s
95th percentile per-packet one-way delay: 40.467 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 81.75 Mbit/s
95th percentile per-packet one-way delay: 40.467 ms
Loss rate: 0.26%
```

Run 1: Report of TCP Cubic — Data Link

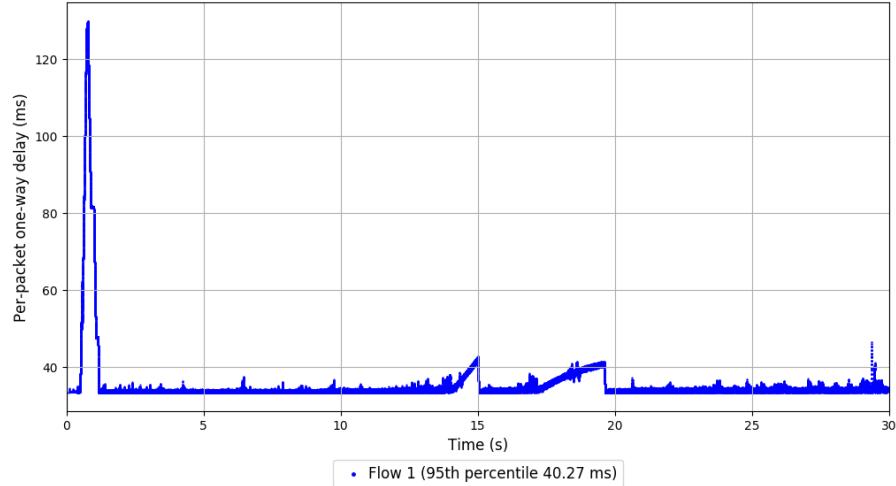
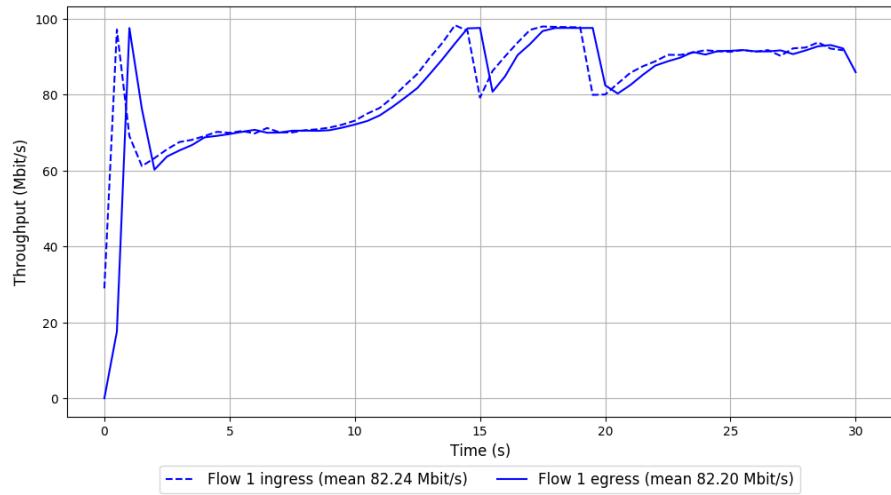


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-21 21:50:49
End at: 2019-01-21 21:51:19
Local clock offset: 0.089 ms
Remote clock offset: -0.694 ms

# Below is generated by plot.py at 2019-01-21 23:26:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.20 Mbit/s
95th percentile per-packet one-way delay: 40.266 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 82.20 Mbit/s
95th percentile per-packet one-way delay: 40.266 ms
Loss rate: 0.26%
```

Run 2: Report of TCP Cubic — Data Link

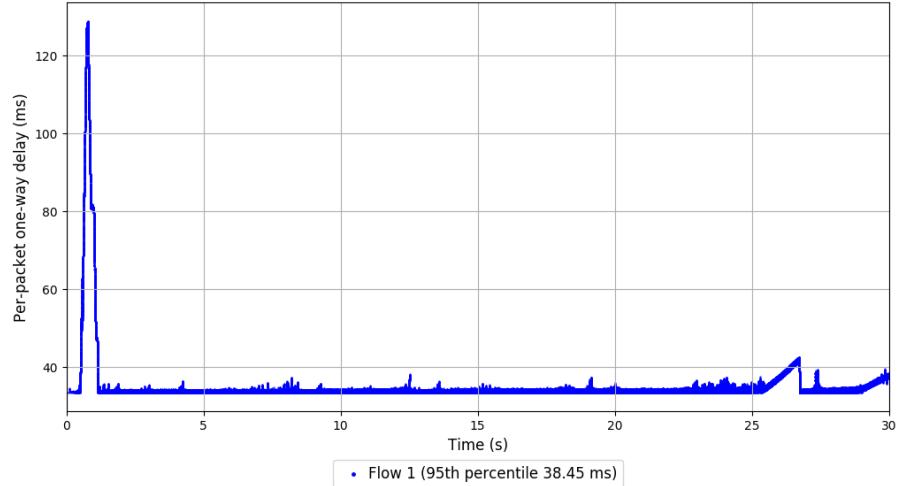
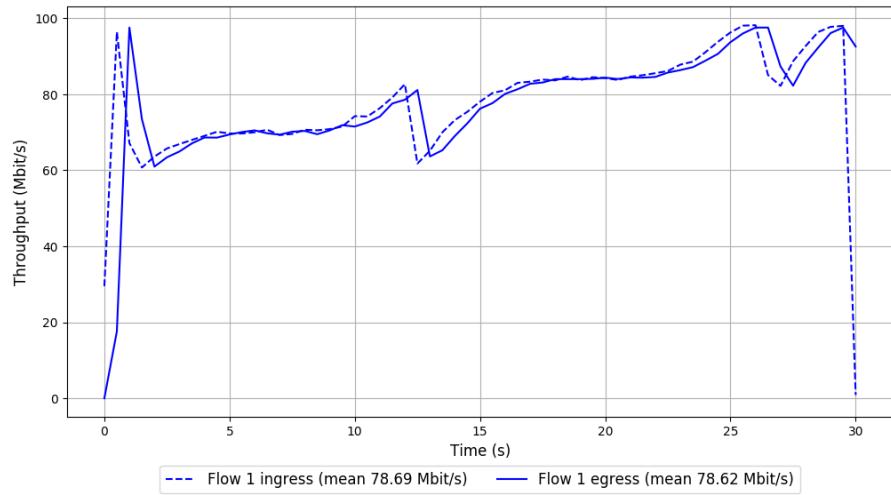


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-21 22:18:43
End at: 2019-01-21 22:19:13
Local clock offset: 0.542 ms
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2019-01-21 23:26:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.62 Mbit/s
95th percentile per-packet one-way delay: 38.450 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 78.62 Mbit/s
95th percentile per-packet one-way delay: 38.450 ms
Loss rate: 0.30%
```

Run 3: Report of TCP Cubic — Data Link

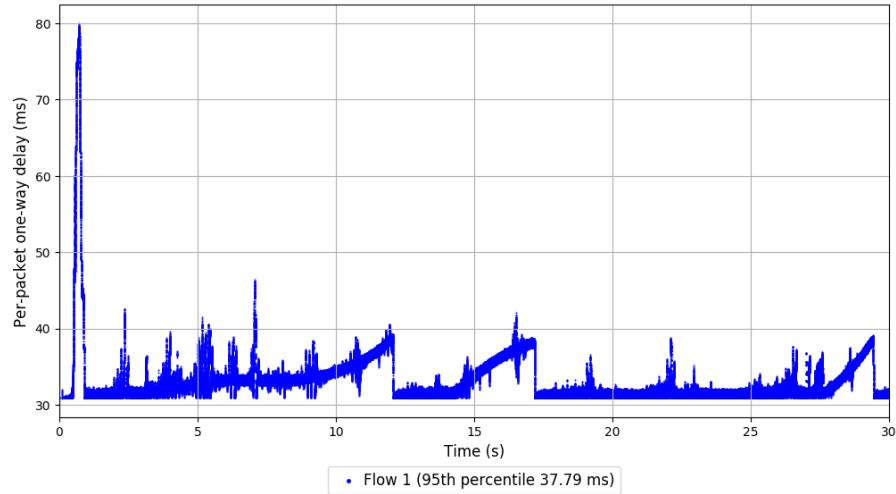
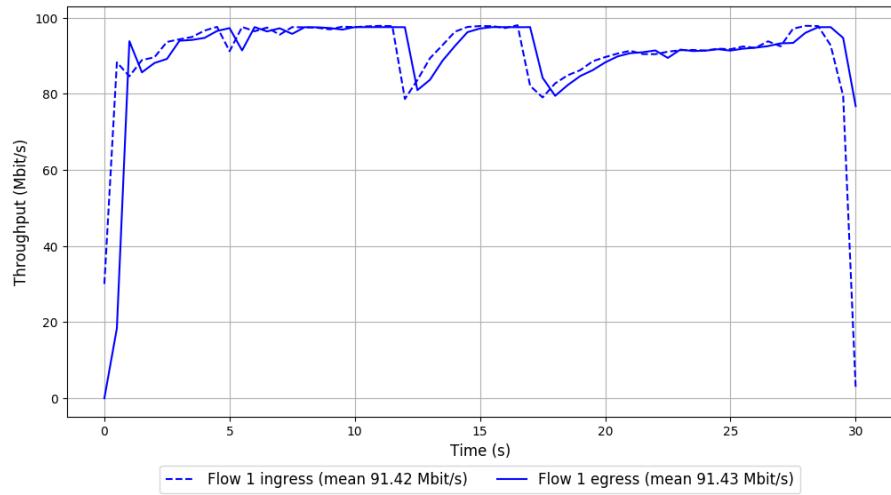


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-21 22:46:43
End at: 2019-01-21 22:47:13
Local clock offset: 0.802 ms
Remote clock offset: 2.189 ms

# Below is generated by plot.py at 2019-01-21 23:26:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.43 Mbit/s
95th percentile per-packet one-way delay: 37.793 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 91.43 Mbit/s
95th percentile per-packet one-way delay: 37.793 ms
Loss rate: 0.20%
```

Run 4: Report of TCP Cubic — Data Link

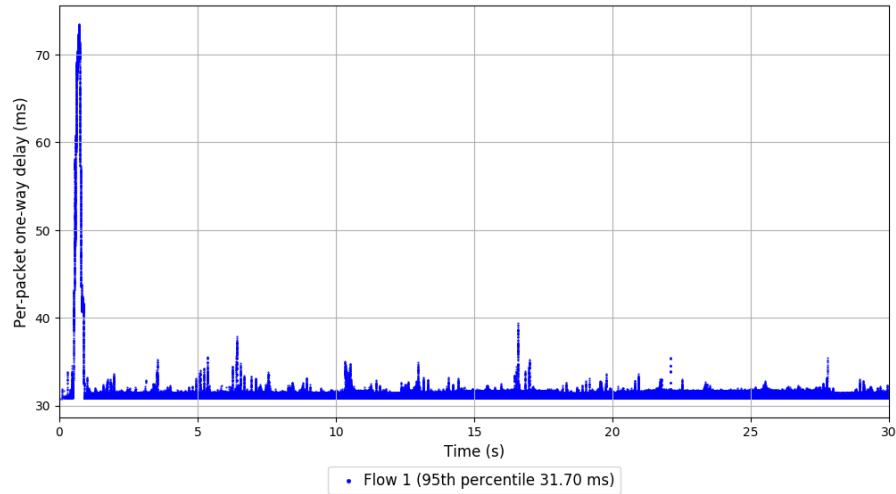
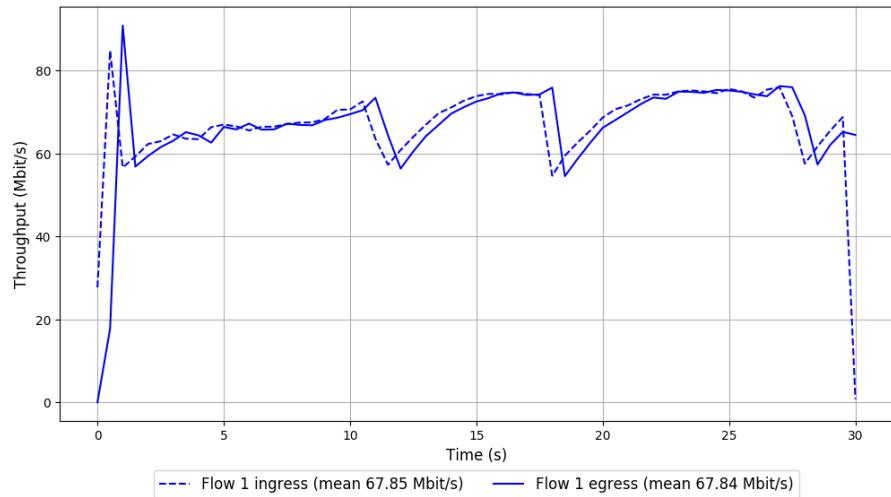


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-21 23:15:19
End at: 2019-01-21 23:15:49
Local clock offset: -0.284 ms
Remote clock offset: 1.398 ms

# Below is generated by plot.py at 2019-01-21 23:26:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.84 Mbit/s
95th percentile per-packet one-way delay: 31.697 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 67.84 Mbit/s
95th percentile per-packet one-way delay: 31.697 ms
Loss rate: 0.23%
```

Run 5: Report of TCP Cubic — Data Link

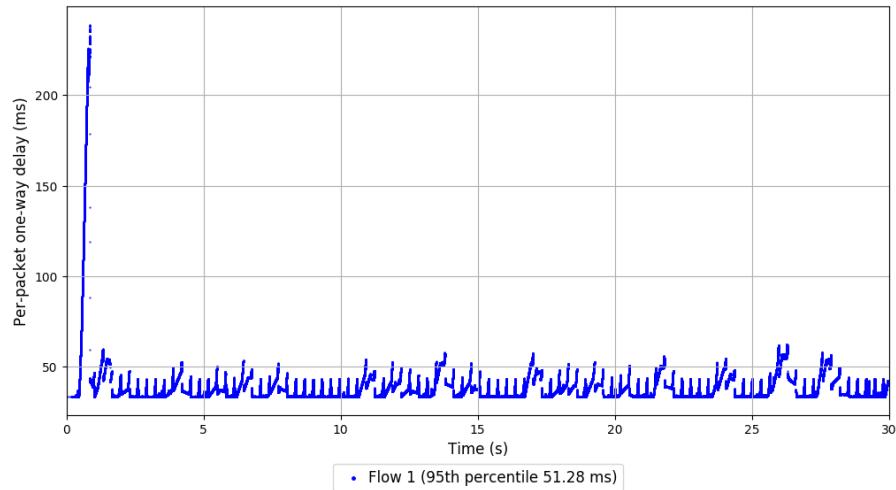
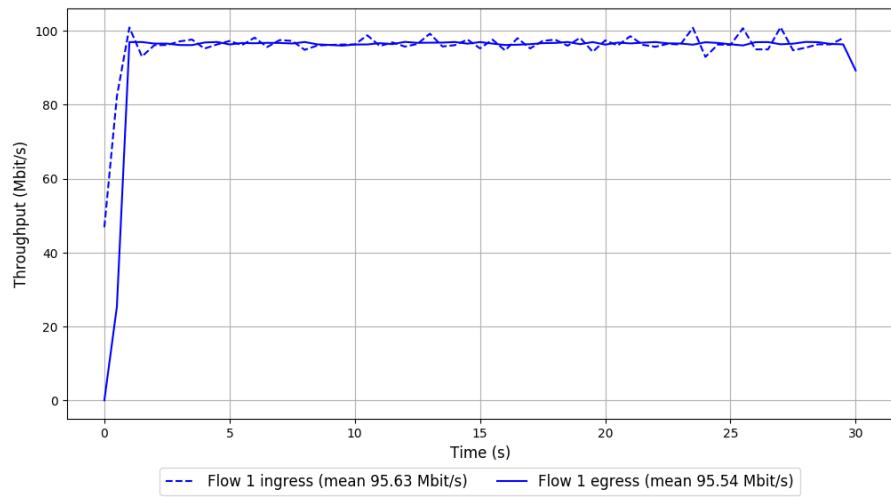


```
Run 1: Statistics of FillP
```

```
Start at: 2019-01-21 21:27:11
End at: 2019-01-21 21:27:41
Local clock offset: 0.241 ms
Remote clock offset: -1.548 ms

# Below is generated by plot.py at 2019-01-21 23:26:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 51.284 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 51.284 ms
Loss rate: 0.30%
```

Run 1: Report of FillP — Data Link

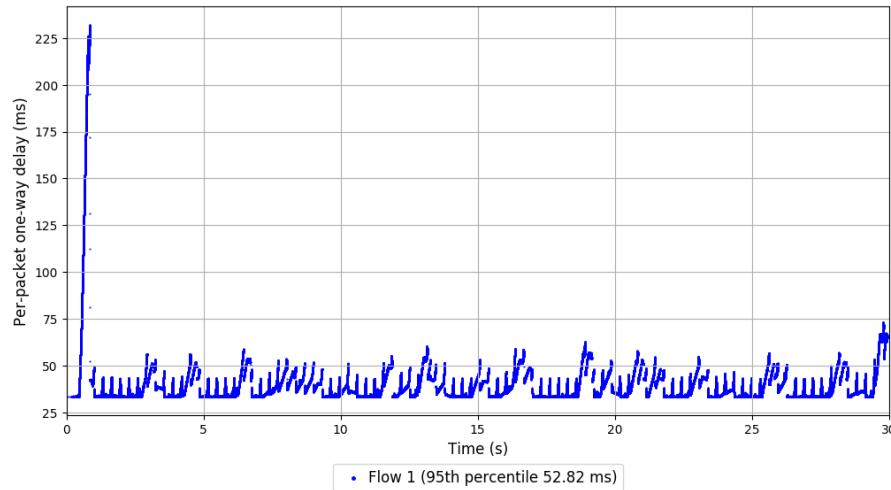
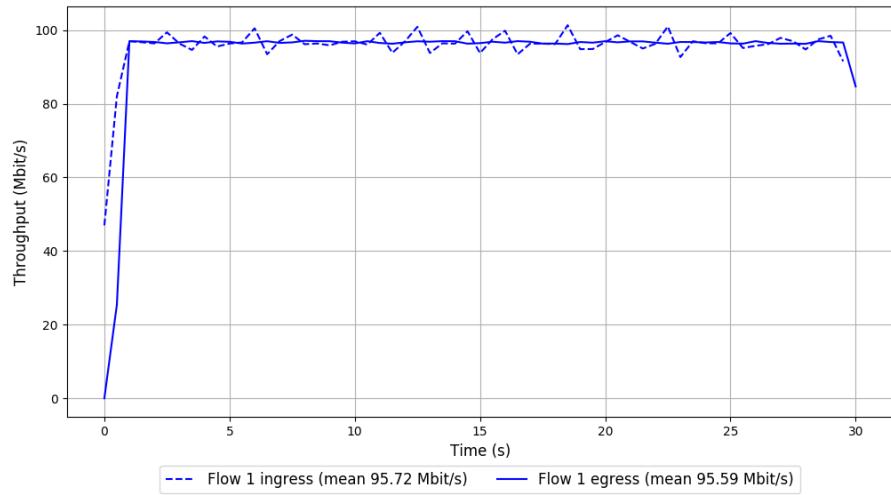


Run 2: Statistics of FillP

```
Start at: 2019-01-21 21:55:07
End at: 2019-01-21 21:55:37
Local clock offset: 0.239 ms
Remote clock offset: -0.543 ms

# Below is generated by plot.py at 2019-01-21 23:26:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 52.820 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 52.820 ms
Loss rate: 0.32%
```

Run 2: Report of FillP — Data Link

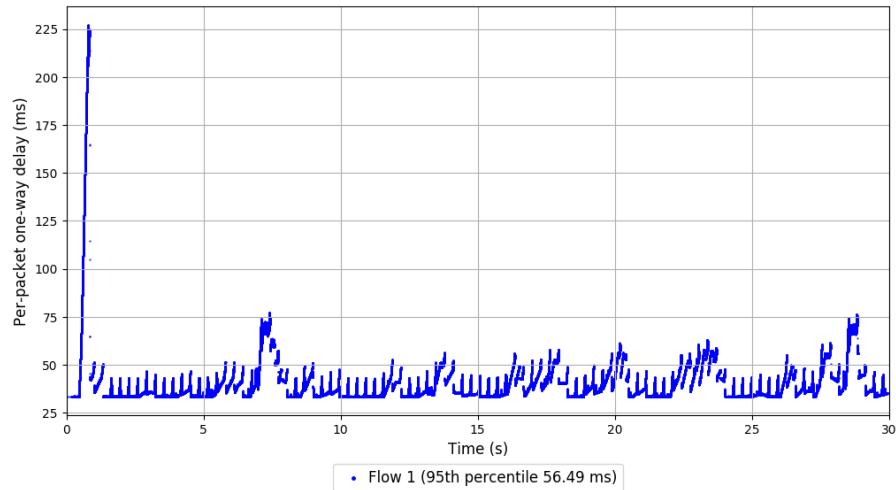
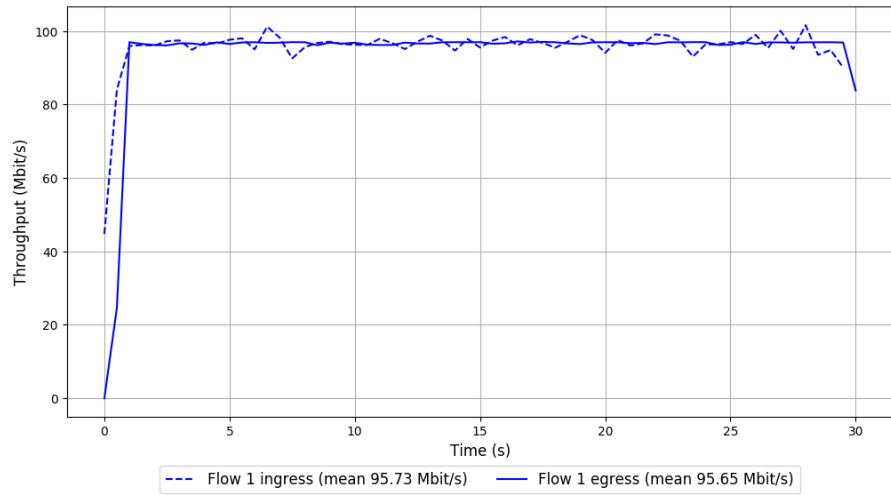


Run 3: Statistics of FillP

```
Start at: 2019-01-21 22:23:03
End at: 2019-01-21 22:23:33
Local clock offset: 0.685 ms
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2019-01-21 23:26:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 56.493 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 56.493 ms
Loss rate: 0.29%
```

Run 3: Report of FillP — Data Link

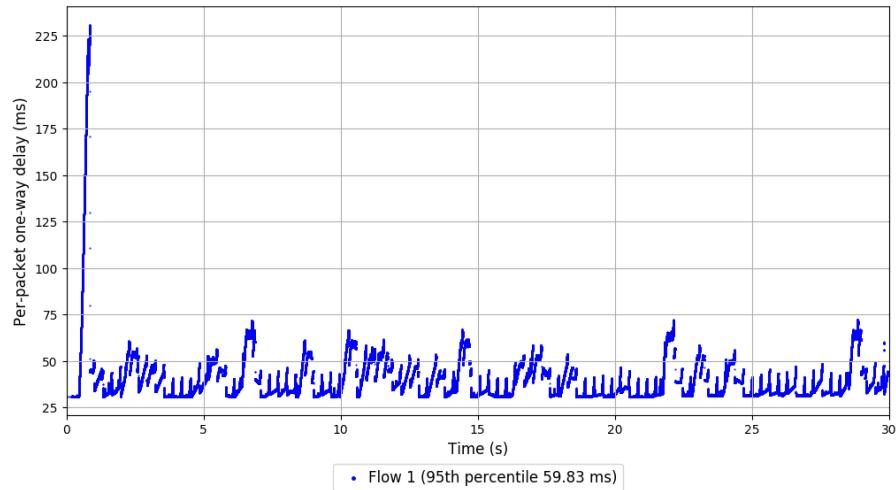
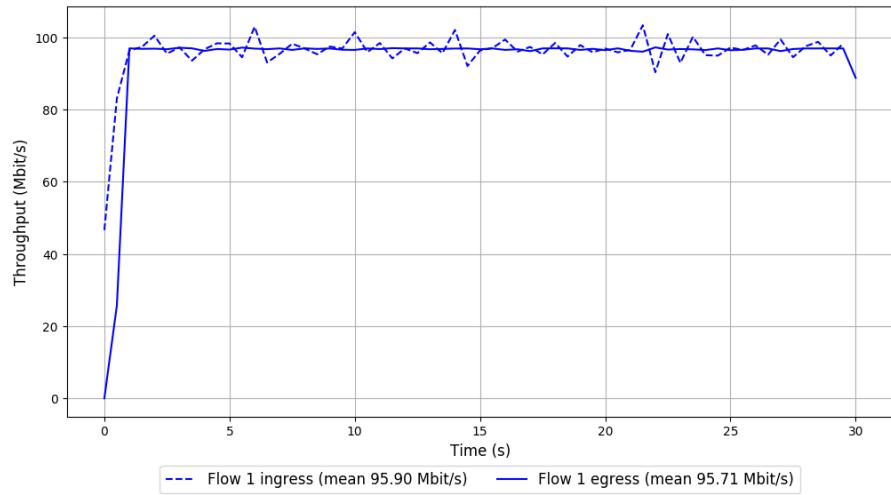


Run 4: Statistics of FillP

```
Start at: 2019-01-21 22:50:51
End at: 2019-01-21 22:51:21
Local clock offset: 0.453 ms
Remote clock offset: 2.038 ms

# Below is generated by plot.py at 2019-01-21 23:26:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 59.832 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 59.832 ms
Loss rate: 0.41%
```

Run 4: Report of FillP — Data Link

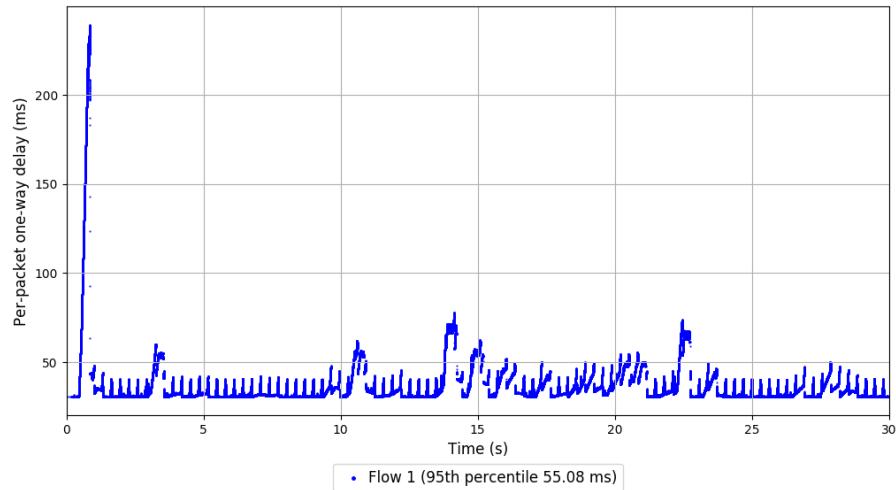
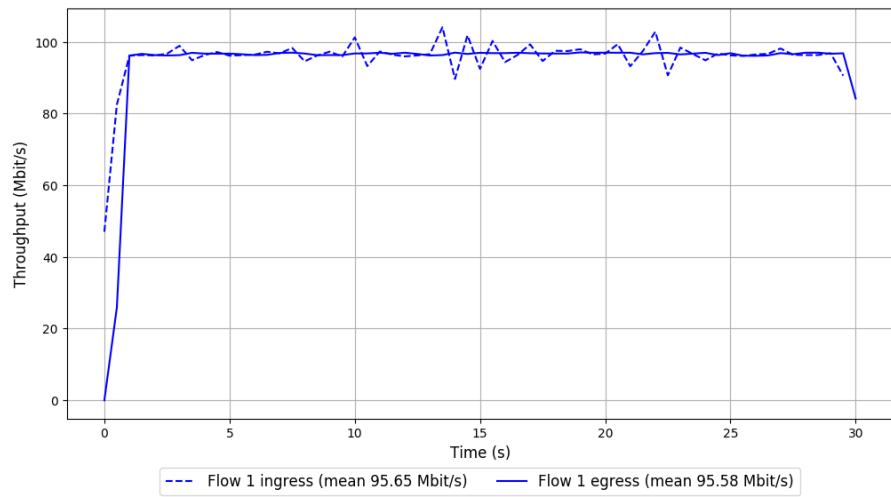


Run 5: Statistics of FillP

```
Start at: 2019-01-21 23:19:28
End at: 2019-01-21 23:19:58
Local clock offset: -0.754 ms
Remote clock offset: 1.229 ms

# Below is generated by plot.py at 2019-01-21 23:27:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 55.075 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 55.075 ms
Loss rate: 0.28%
```

Run 5: Report of FillP — Data Link

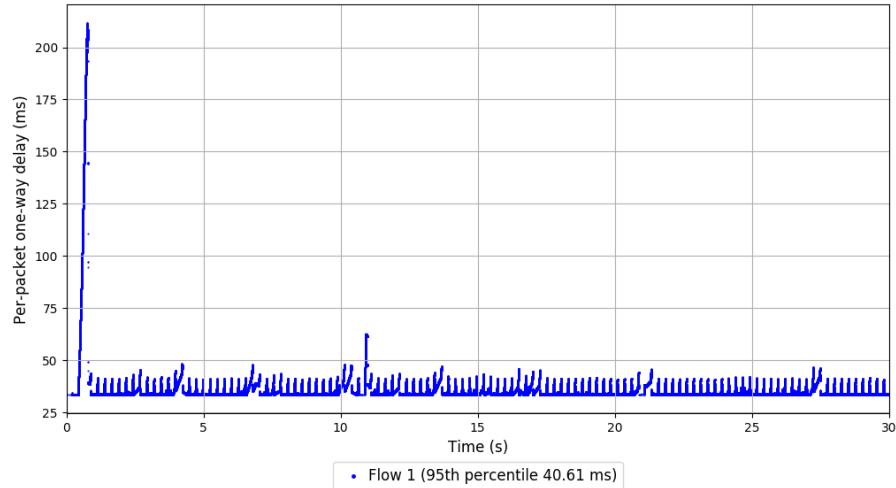
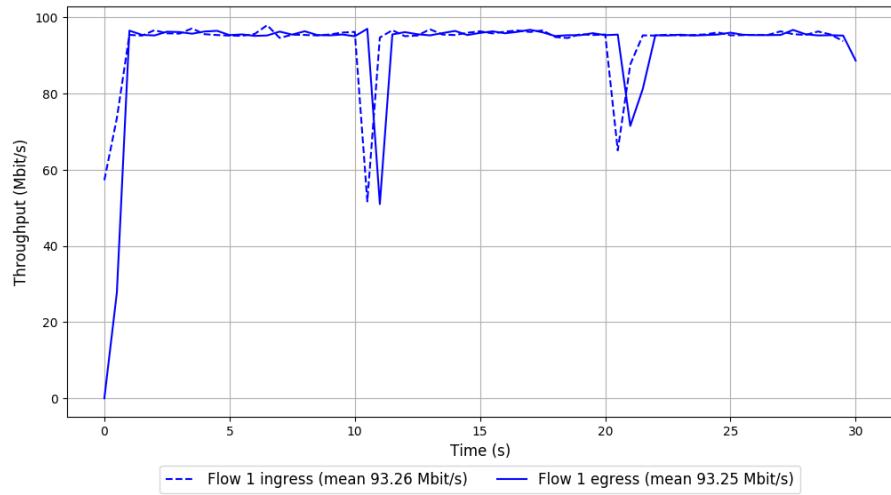


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-21 21:06:41
End at: 2019-01-21 21:07:11
Local clock offset: 0.964 ms
Remote clock offset: -2.274 ms

# Below is generated by plot.py at 2019-01-21 23:27:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.25 Mbit/s
95th percentile per-packet one-way delay: 40.606 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 93.25 Mbit/s
95th percentile per-packet one-way delay: 40.606 ms
Loss rate: 0.23%
```

Run 1: Report of FillP-Sheep — Data Link

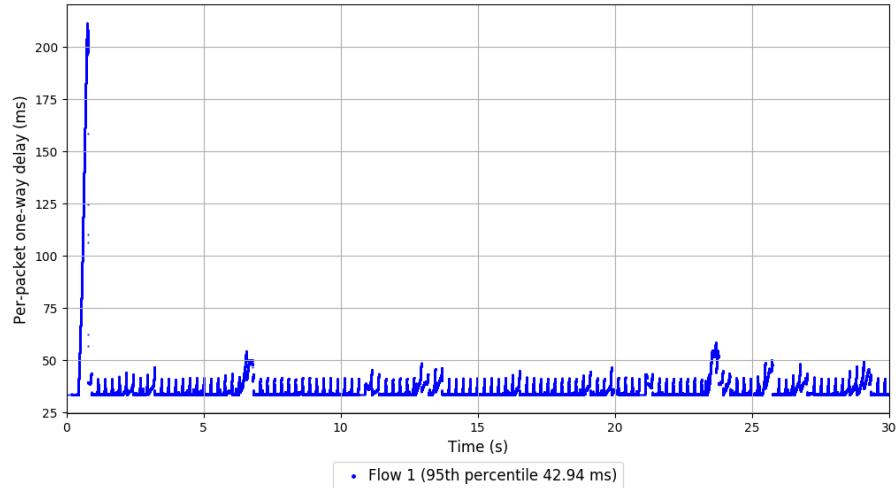
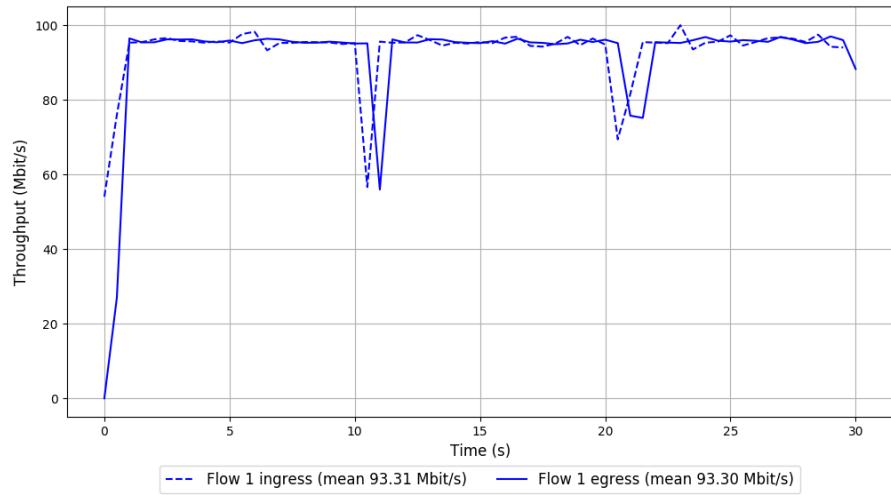


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-21 21:33:34
End at: 2019-01-21 21:34:04
Local clock offset: 0.044 ms
Remote clock offset: -1.353 ms

# Below is generated by plot.py at 2019-01-21 23:27:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.30 Mbit/s
95th percentile per-packet one-way delay: 42.942 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 93.30 Mbit/s
95th percentile per-packet one-way delay: 42.942 ms
Loss rate: 0.22%
```

Run 2: Report of FillP-Sheep — Data Link

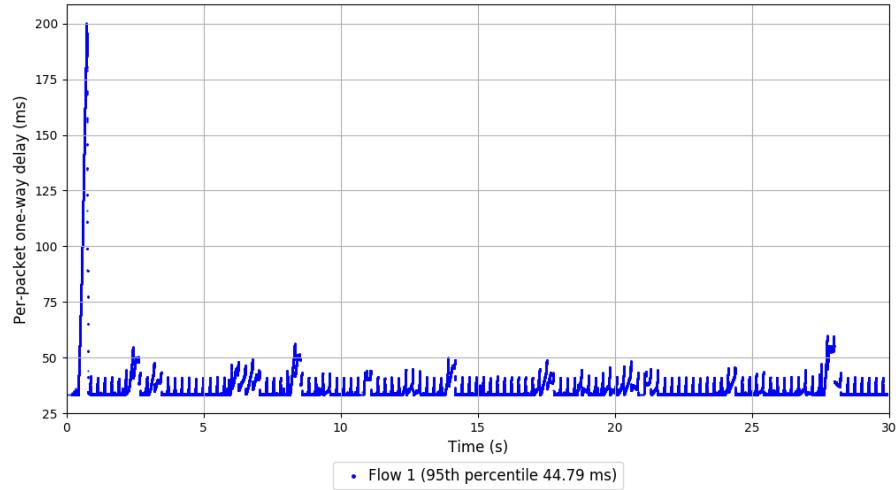
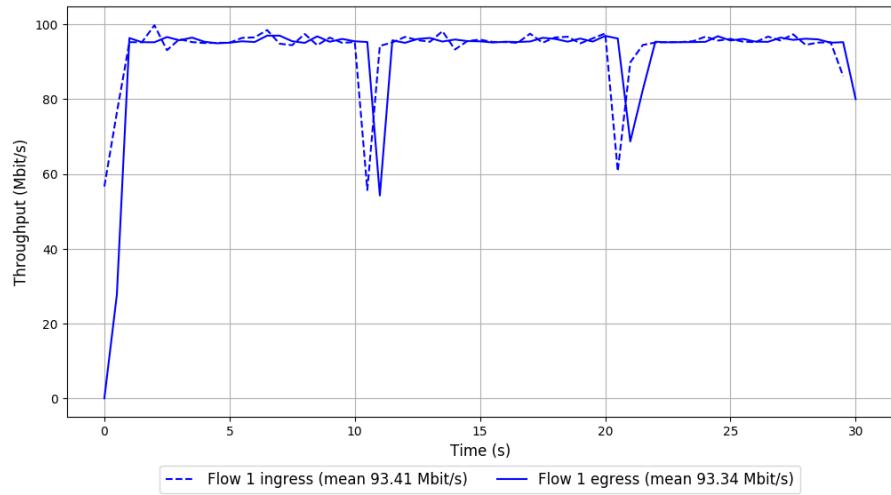


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-21 22:01:38
End at: 2019-01-21 22:02:08
Local clock offset: 0.353 ms
Remote clock offset: -0.479 ms

# Below is generated by plot.py at 2019-01-21 23:27:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 44.788 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 44.788 ms
Loss rate: 0.28%
```

Run 3: Report of FillP-Sheep — Data Link

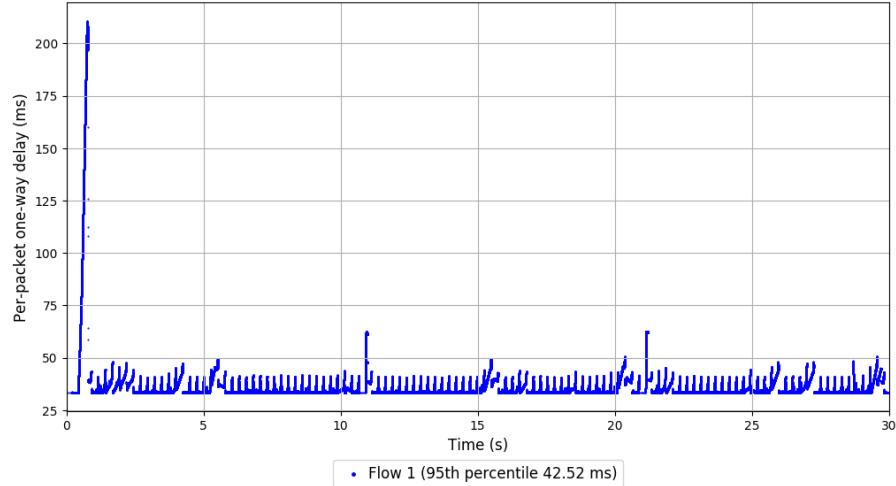
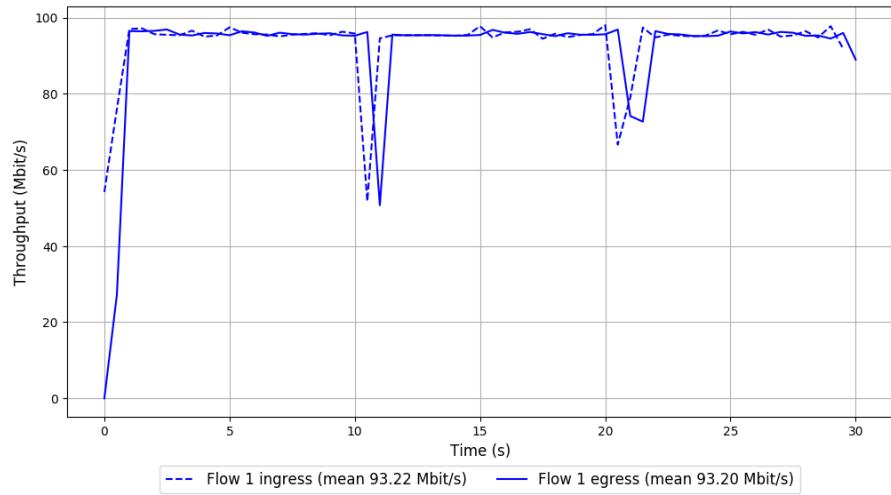


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-21 22:29:37
End at: 2019-01-21 22:30:07
Local clock offset: 0.777 ms
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2019-01-21 23:27:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 42.515 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 42.515 ms
Loss rate: 0.24%
```

Run 4: Report of FillP-Sheep — Data Link

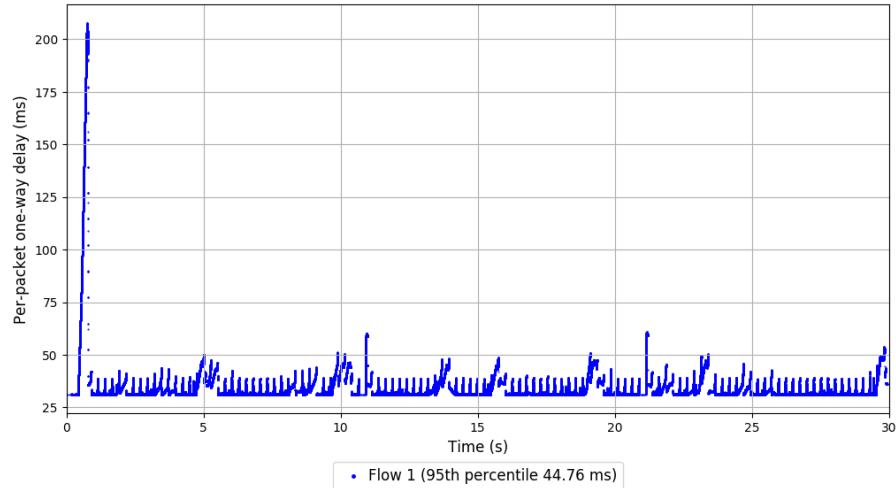
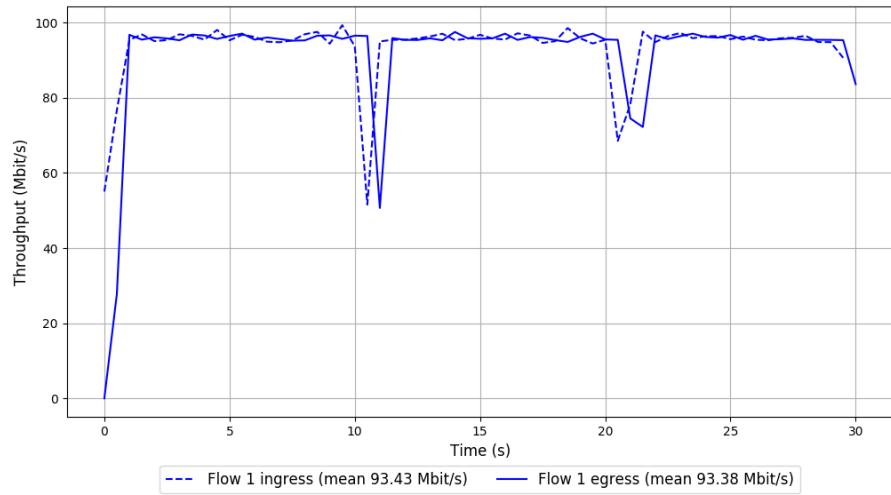


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-21 22:57:44
End at: 2019-01-21 22:58:14
Local clock offset: 0.109 ms
Remote clock offset: 1.573 ms

# Below is generated by plot.py at 2019-01-21 23:27:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.38 Mbit/s
95th percentile per-packet one-way delay: 44.764 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 93.38 Mbit/s
95th percentile per-packet one-way delay: 44.764 ms
Loss rate: 0.28%
```

Run 5: Report of FillP-Sheep — Data Link

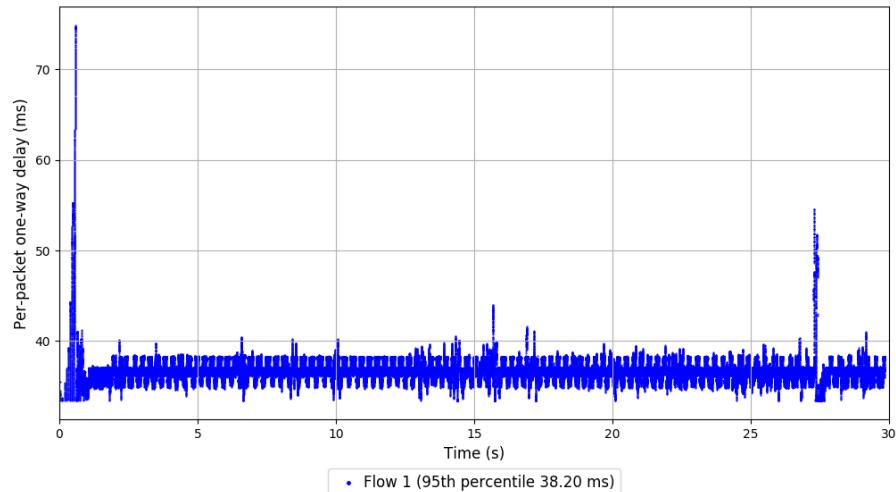
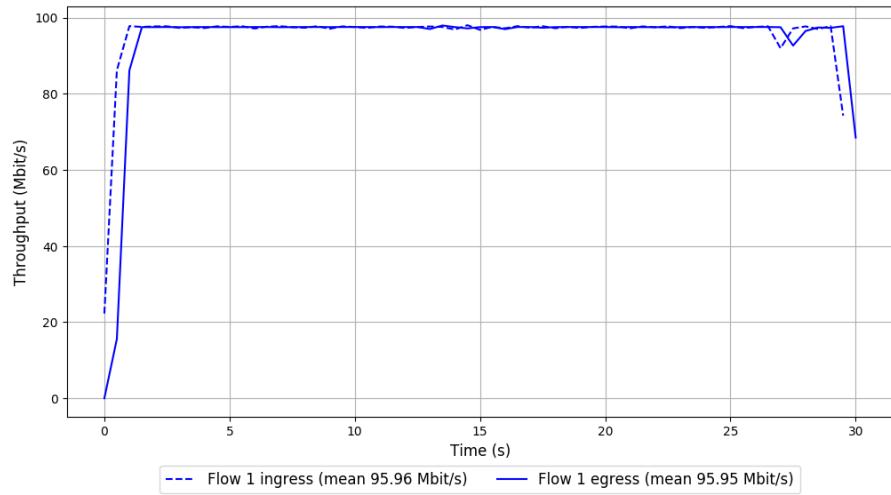


Run 1: Statistics of Indigo

```
Start at: 2019-01-21 21:08:01
End at: 2019-01-21 21:08:31
Local clock offset: 0.947 ms
Remote clock offset: -2.246 ms

# Below is generated by plot.py at 2019-01-21 23:27:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 38.205 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 38.205 ms
Loss rate: 0.23%
```

Run 1: Report of Indigo — Data Link

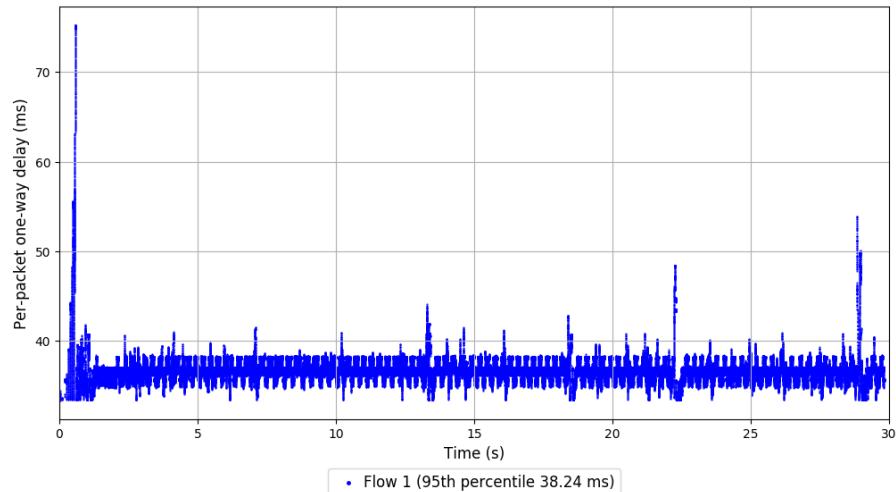
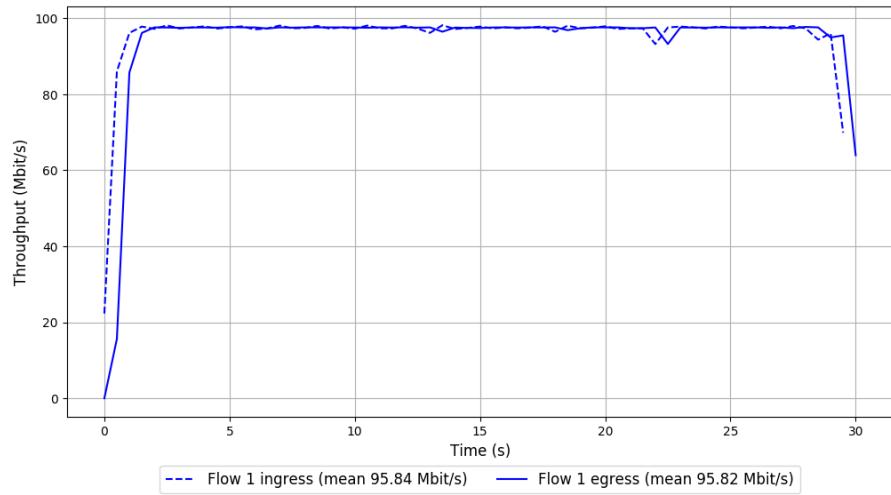


Run 2: Statistics of Indigo

```
Start at: 2019-01-21 21:34:52
End at: 2019-01-21 21:35:22
Local clock offset: 0.022 ms
Remote clock offset: -1.31 ms

# Below is generated by plot.py at 2019-01-21 23:27:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 38.243 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 38.243 ms
Loss rate: 0.23%
```

Run 2: Report of Indigo — Data Link

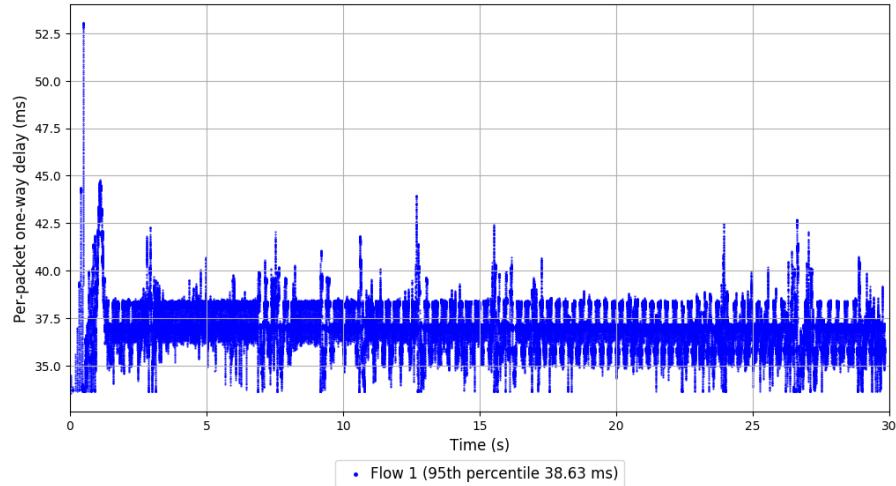
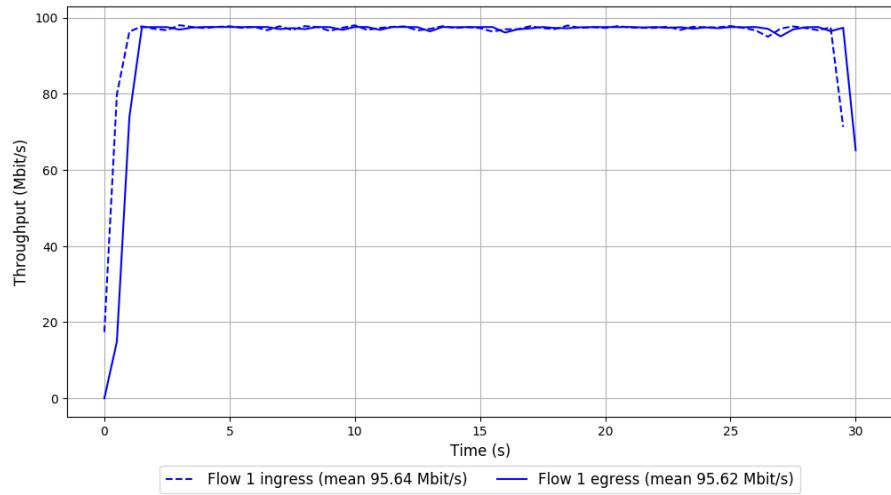


Run 3: Statistics of Indigo

```
Start at: 2019-01-21 22:02:51
End at: 2019-01-21 22:03:21
Local clock offset: 0.37 ms
Remote clock offset: -0.449 ms

# Below is generated by plot.py at 2019-01-21 23:28:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 38.631 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 38.631 ms
Loss rate: 0.23%
```

Run 3: Report of Indigo — Data Link

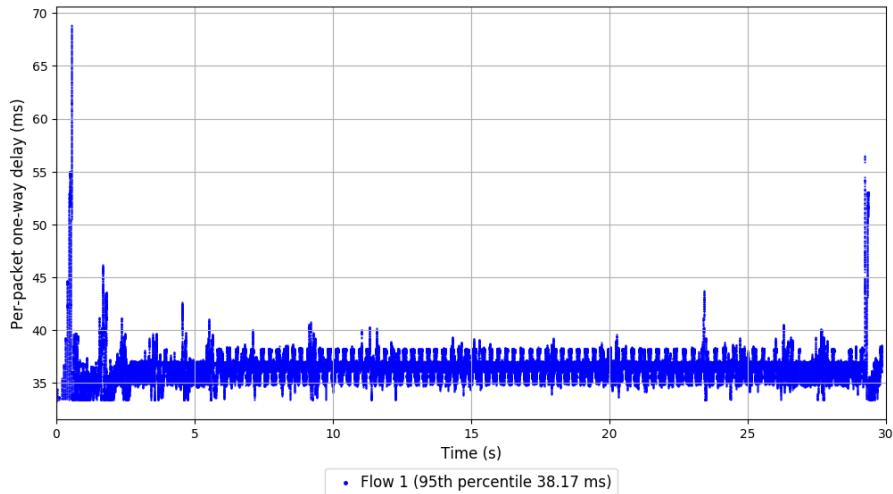
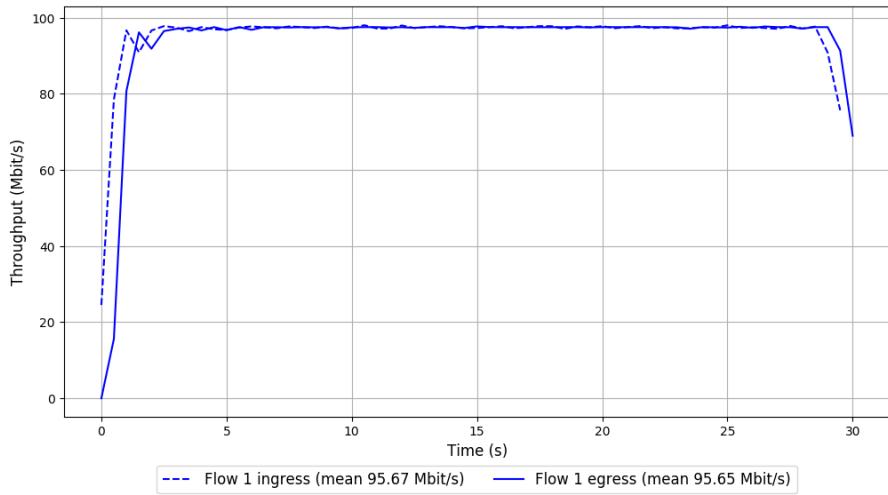


Run 4: Statistics of Indigo

```
Start at: 2019-01-21 22:30:53
End at: 2019-01-21 22:31:23
Local clock offset: 0.783 ms
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2019-01-21 23:28:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 38.167 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 38.167 ms
Loss rate: 0.23%
```

Run 4: Report of Indigo — Data Link

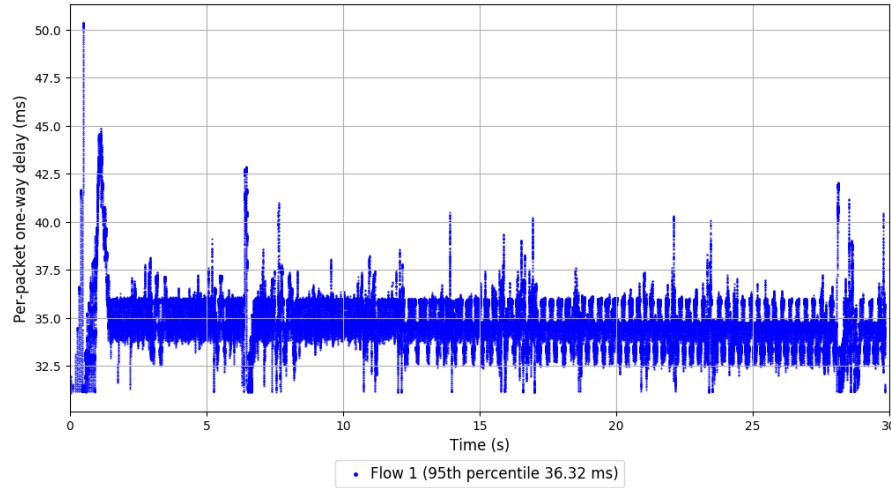
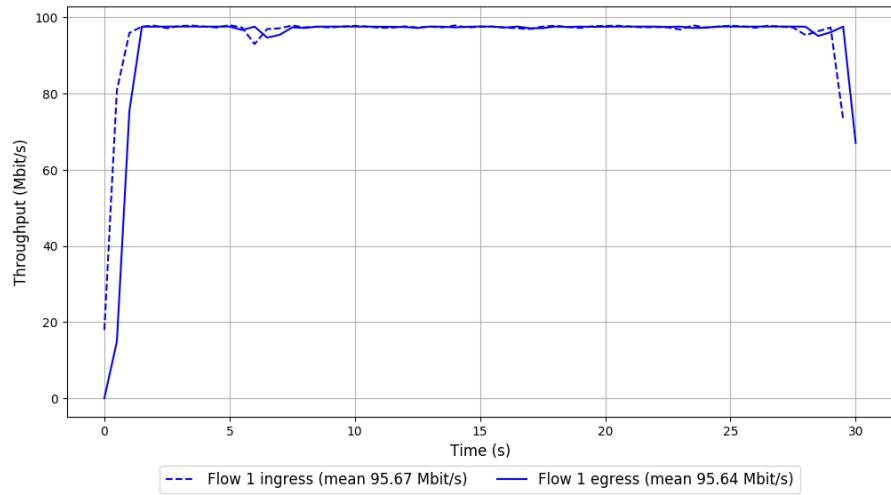


Run 5: Statistics of Indigo

```
Start at: 2019-01-21 22:59:11
End at: 2019-01-21 22:59:41
Local clock offset: 0.052 ms
Remote clock offset: 1.521 ms

# Below is generated by plot.py at 2019-01-21 23:28:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 36.316 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 36.316 ms
Loss rate: 0.24%
```

Run 5: Report of Indigo — Data Link

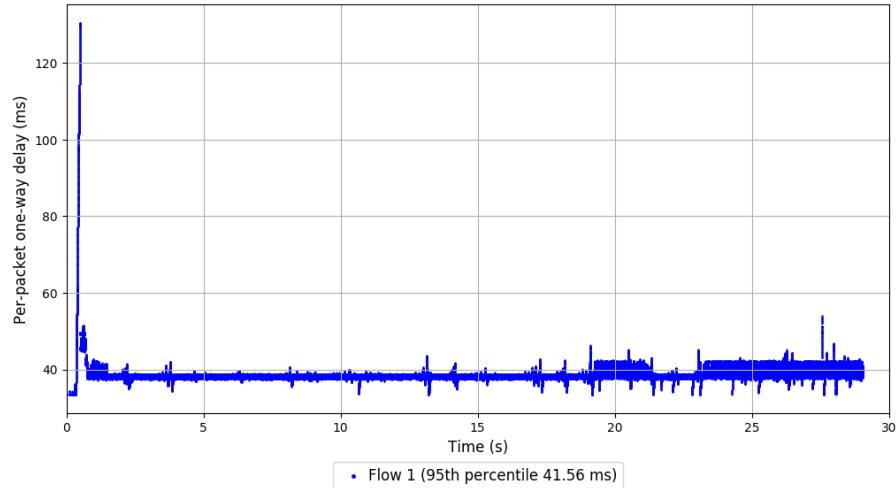
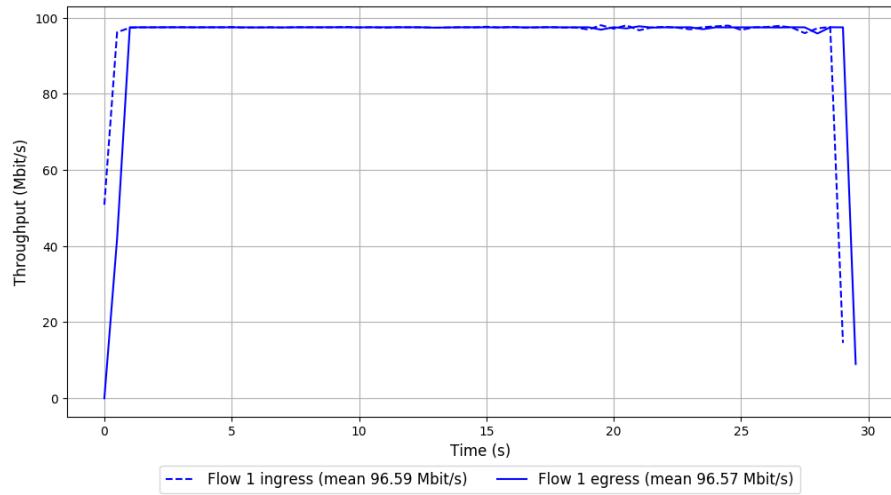


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 21:13:58
End at: 2019-01-21 21:14:29
Local clock offset: 0.994 ms
Remote clock offset: -2.029 ms

# Below is generated by plot.py at 2019-01-21 23:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 41.556 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 41.556 ms
Loss rate: 0.24%
```

Run 1: Report of Indigo-MusesC3 — Data Link

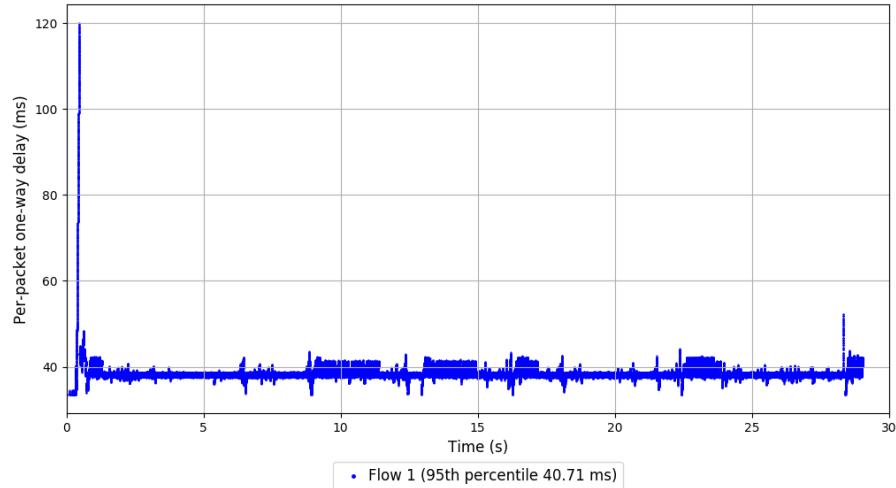
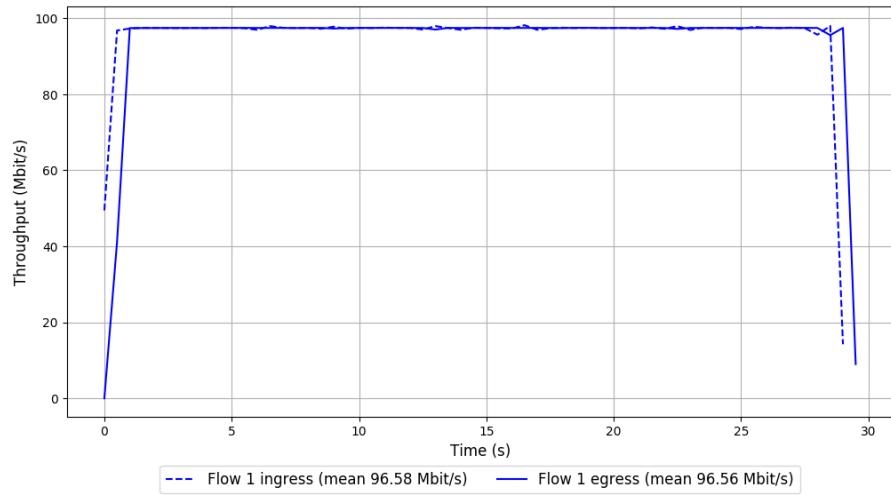


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 21:41:01
End at: 2019-01-21 21:41:31
Local clock offset: -0.069 ms
Remote clock offset: -1.08 ms

# Below is generated by plot.py at 2019-01-21 23:28:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 40.707 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 40.707 ms
Loss rate: 0.24%
```

Run 2: Report of Indigo-MusesC3 — Data Link

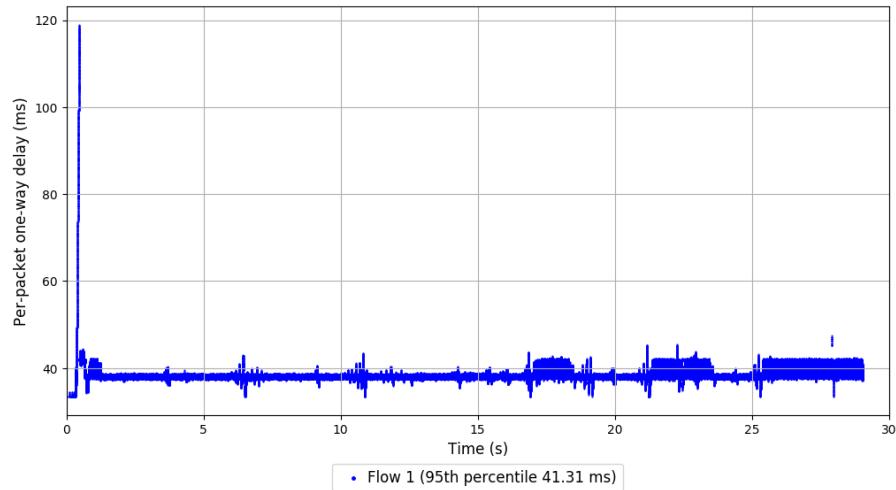
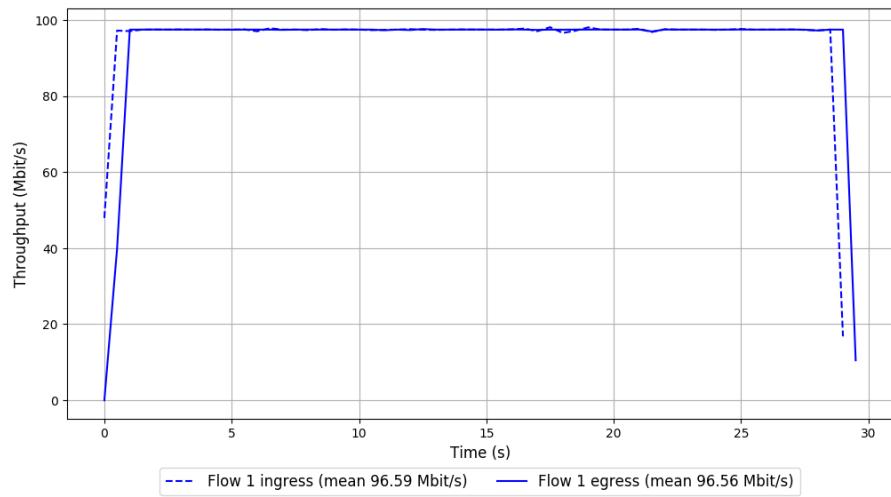


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 22:09:02
End at: 2019-01-21 22:09:32
Local clock offset: 0.43 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2019-01-21 23:28:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 41.315 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 41.315 ms
Loss rate: 0.24%
```

Run 3: Report of Indigo-MusesC3 — Data Link

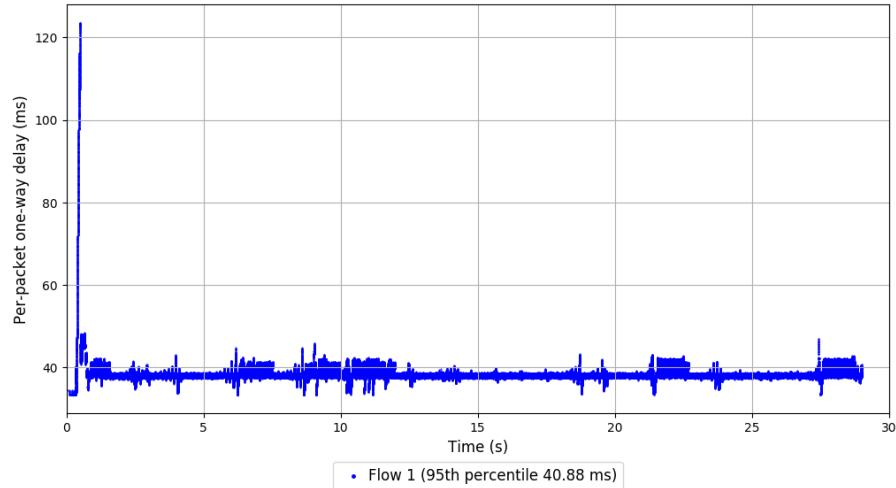
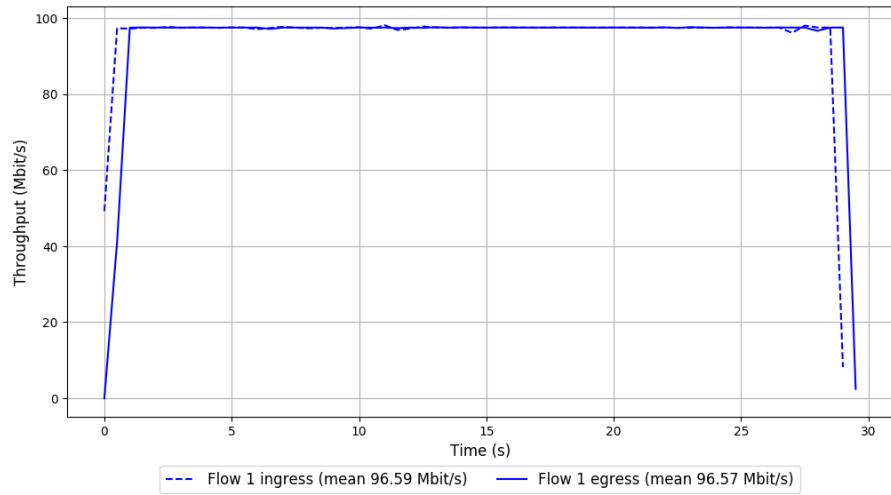


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 22:37:18
End at: 2019-01-21 22:37:48
Local clock offset: 0.831 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-01-21 23:28:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 40.879 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 40.879 ms
Loss rate: 0.24%
```

Run 4: Report of Indigo-MusesC3 — Data Link

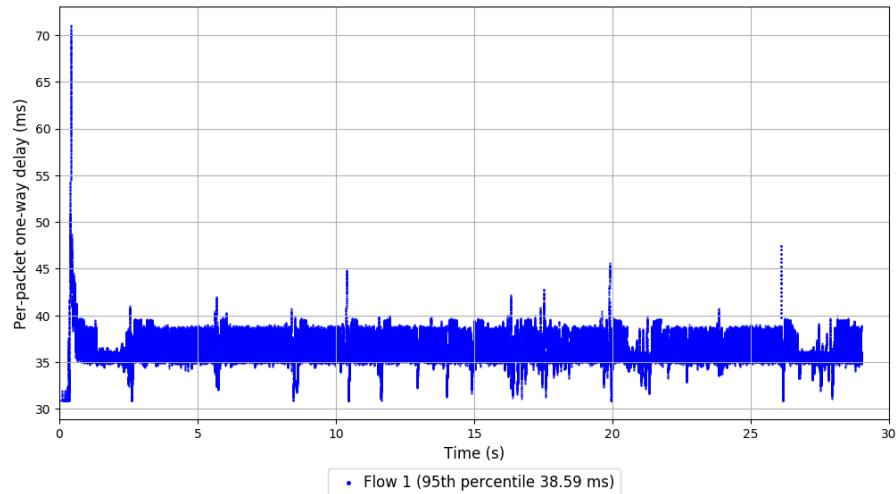
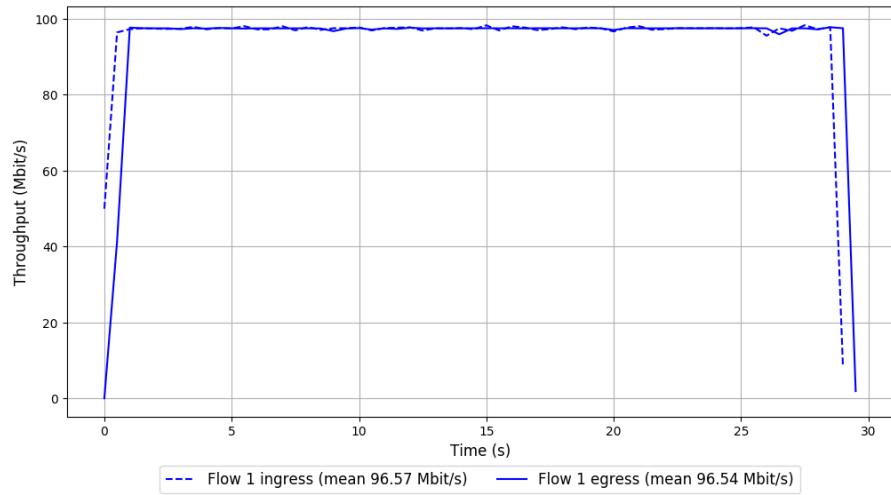


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 23:05:34
End at: 2019-01-21 23:06:04
Local clock offset: -0.115 ms
Remote clock offset: 1.631 ms

# Below is generated by plot.py at 2019-01-21 23:28:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 38.593 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 38.593 ms
Loss rate: 0.25%
```

Run 5: Report of Indigo-MusesC3 — Data Link

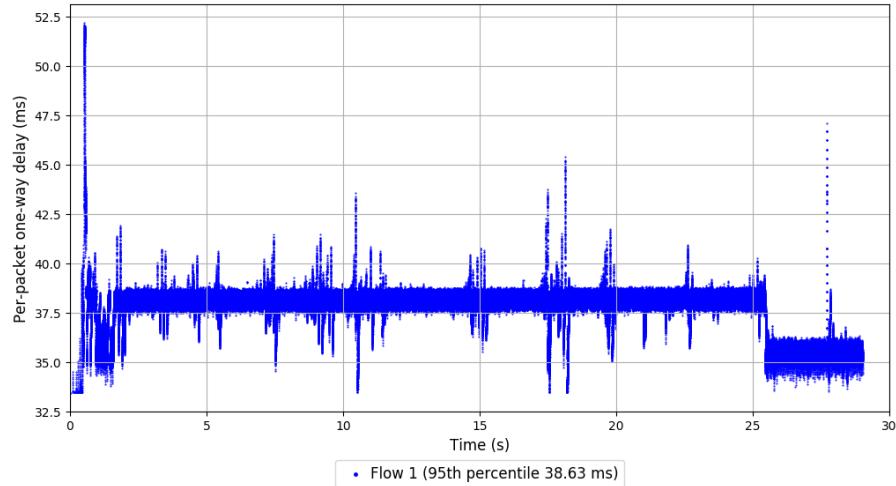
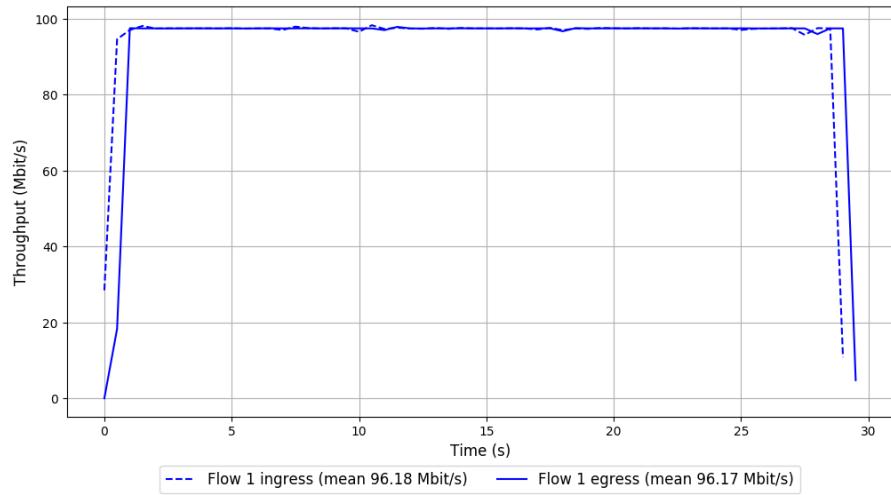


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 21:15:20
End at: 2019-01-21 21:15:50
Local clock offset: 1.011 ms
Remote clock offset: -1.982 ms

# Below is generated by plot.py at 2019-01-21 23:29:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 38.635 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 38.635 ms
Loss rate: 0.23%
```

Run 1: Report of Indigo-MusesC5 — Data Link

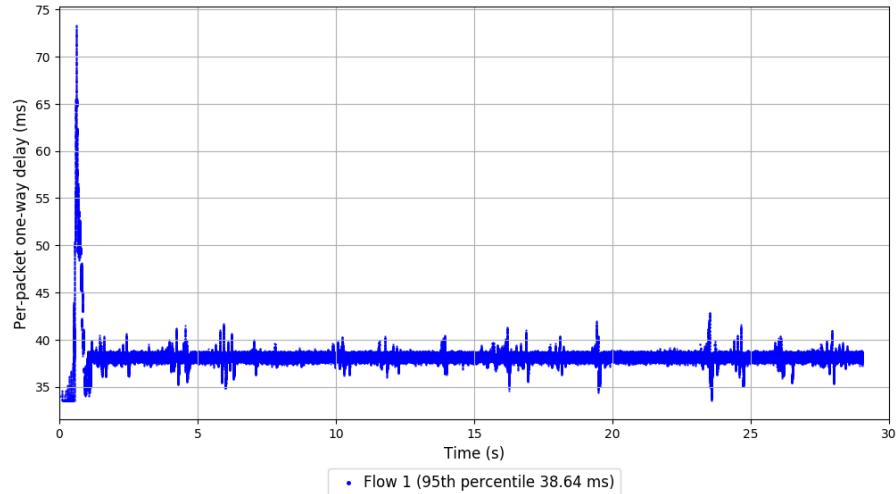
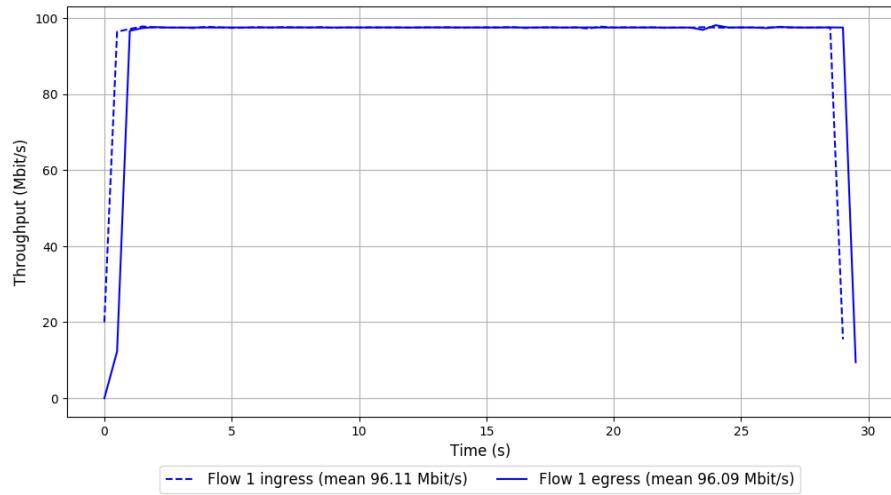


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 21:42:21
End at: 2019-01-21 21:42:51
Local clock offset: -0.117 ms
Remote clock offset: -1.058 ms

# Below is generated by plot.py at 2019-01-21 23:29:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 38.643 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 38.643 ms
Loss rate: 0.24%
```

Run 2: Report of Indigo-MusesC5 — Data Link

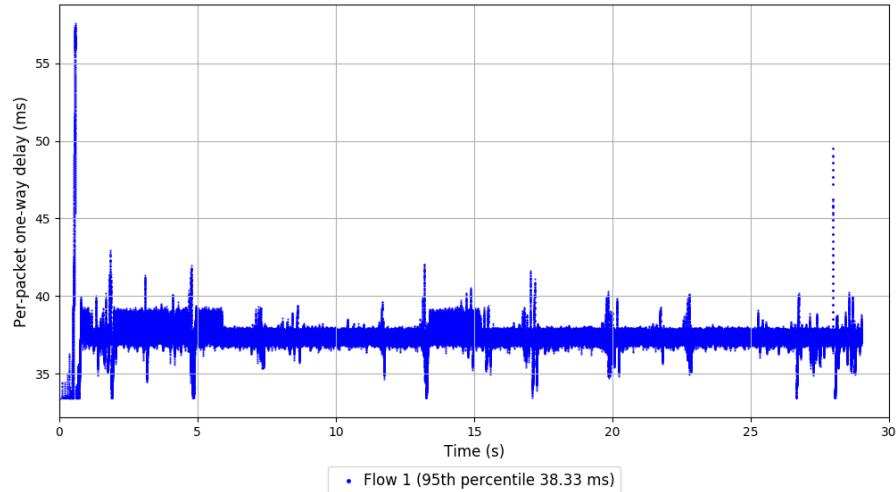
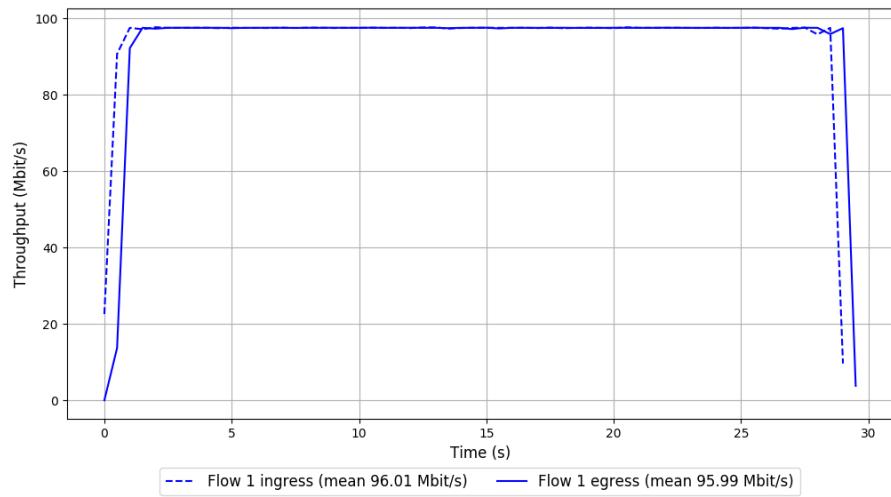


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 22:10:24
End at: 2019-01-21 22:10:54
Local clock offset: 0.427 ms
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2019-01-21 23:29:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 38.325 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 38.325 ms
Loss rate: 0.24%
```

Run 3: Report of Indigo-MusesC5 — Data Link

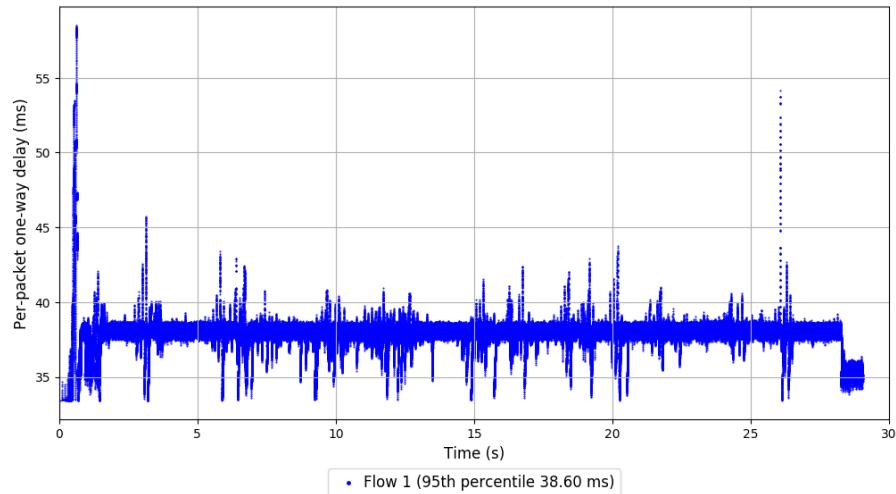
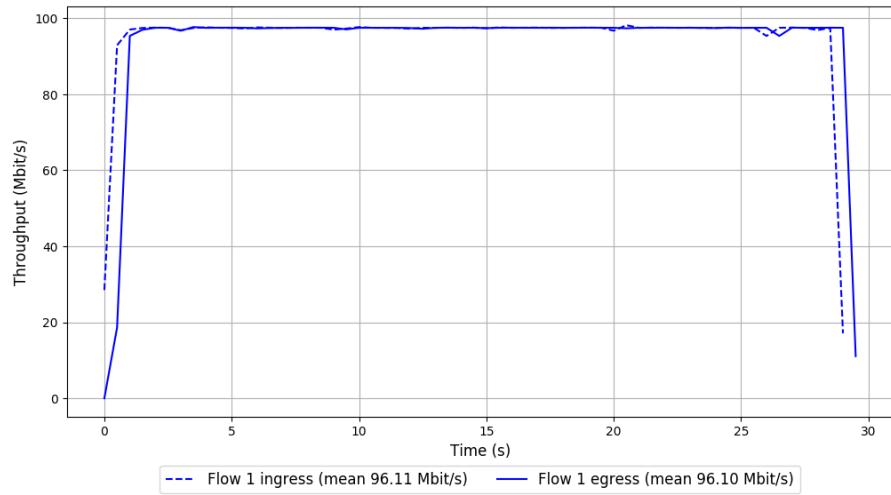


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 22:38:36
End at: 2019-01-21 22:39:07
Local clock offset: 0.837 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-01-21 23:29:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 38.600 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 38.600 ms
Loss rate: 0.23%
```

Run 4: Report of Indigo-MusesC5 — Data Link

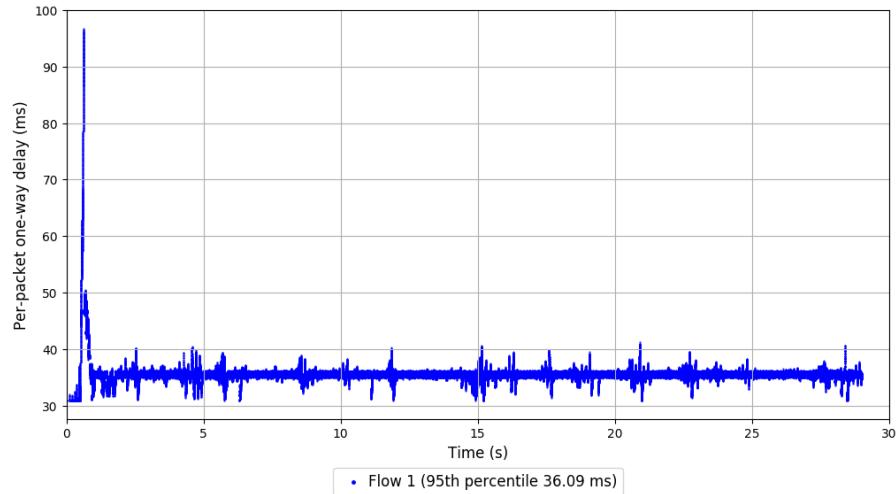
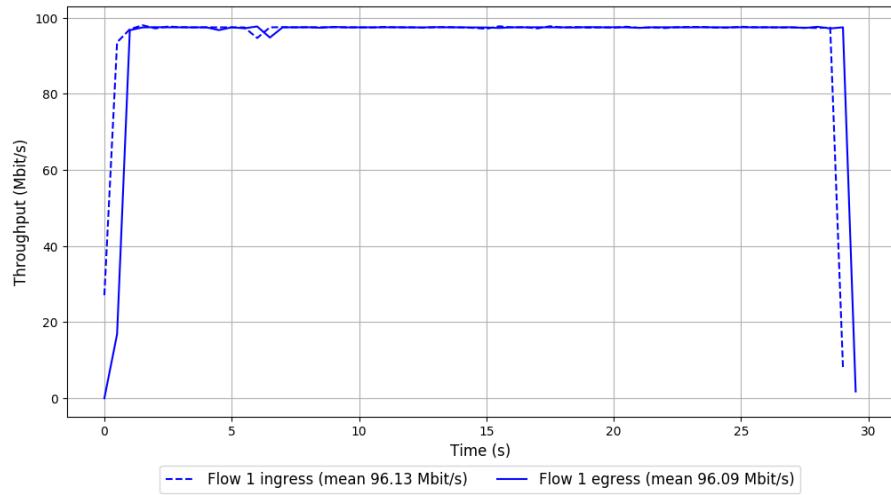


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 23:07:04
End at: 2019-01-21 23:07:34
Local clock offset: -0.152 ms
Remote clock offset: 1.568 ms

# Below is generated by plot.py at 2019-01-21 23:29:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 36.091 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 36.091 ms
Loss rate: 0.25%
```

Run 5: Report of Indigo-MusesC5 — Data Link

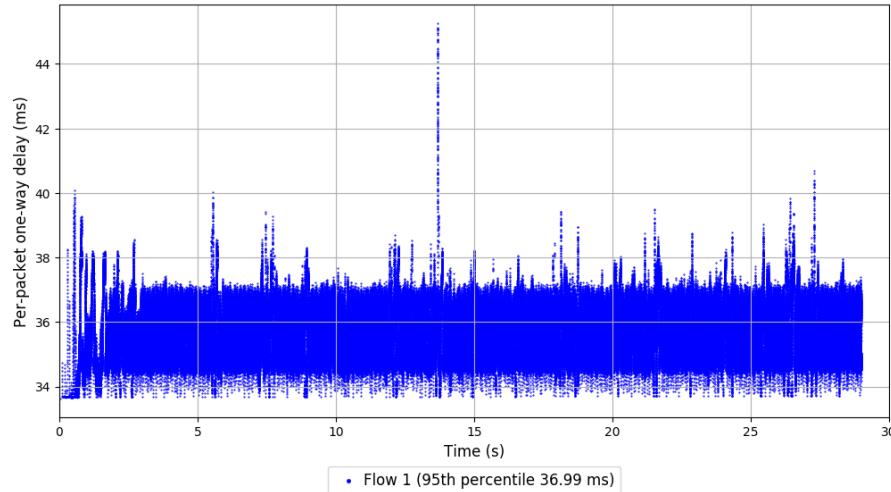
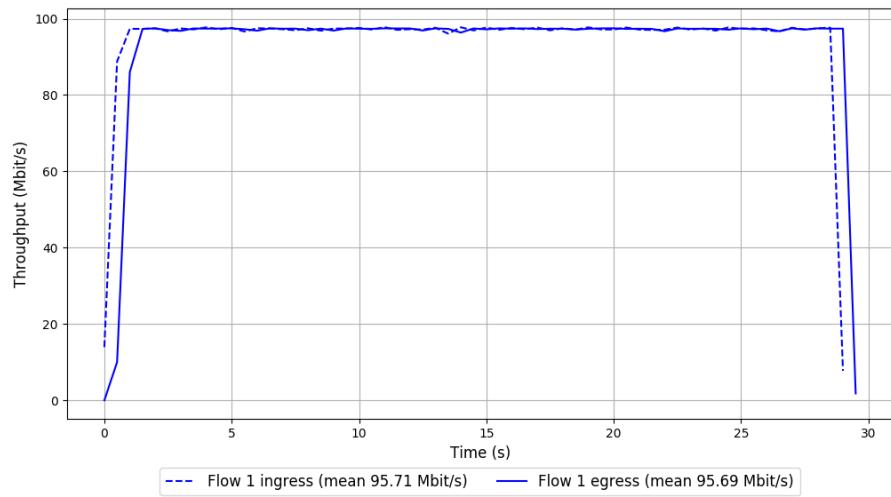


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 21:24:31
End at: 2019-01-21 21:25:01
Local clock offset: 0.357 ms
Remote clock offset: -1.845 ms

# Below is generated by plot.py at 2019-01-21 23:29:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 36.991 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 36.991 ms
Loss rate: 0.23%
```

Run 1: Report of Indigo-MusesD — Data Link

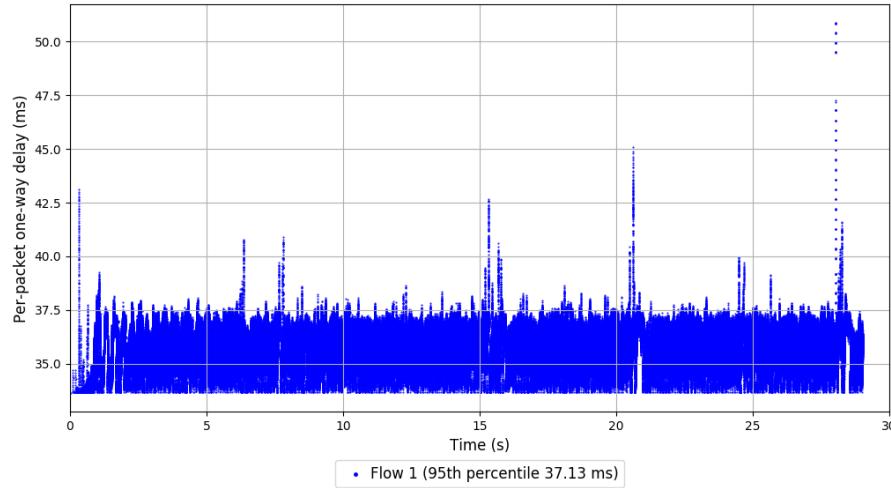
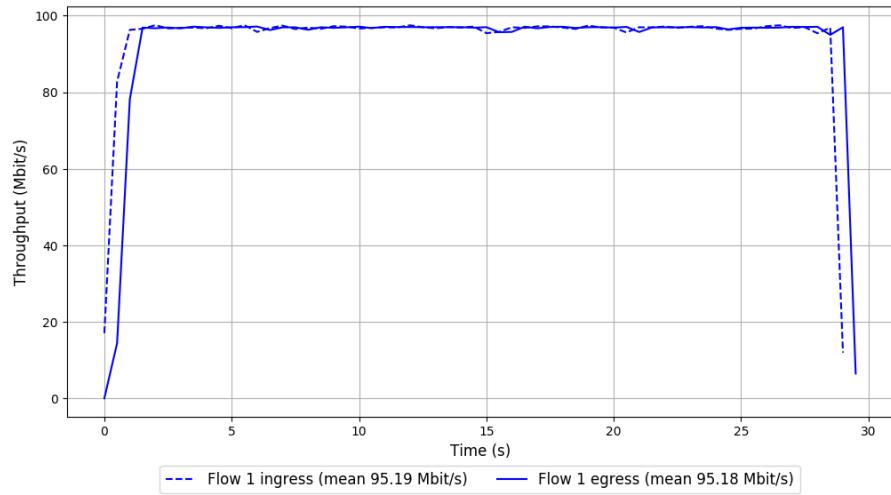


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 21:52:07
End at: 2019-01-21 21:52:37
Local clock offset: 0.149 ms
Remote clock offset: -0.865 ms

# Below is generated by plot.py at 2019-01-21 23:30:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 37.135 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 37.135 ms
Loss rate: 0.23%
```

Run 2: Report of Indigo-MusesD — Data Link

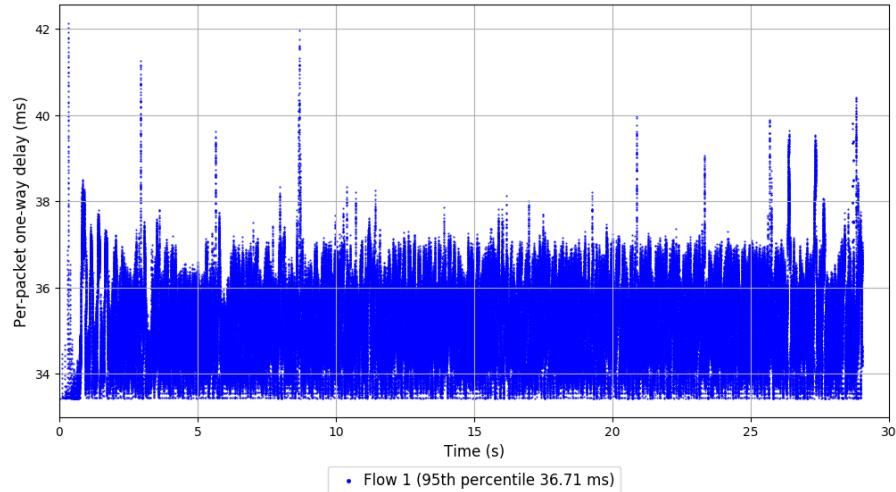
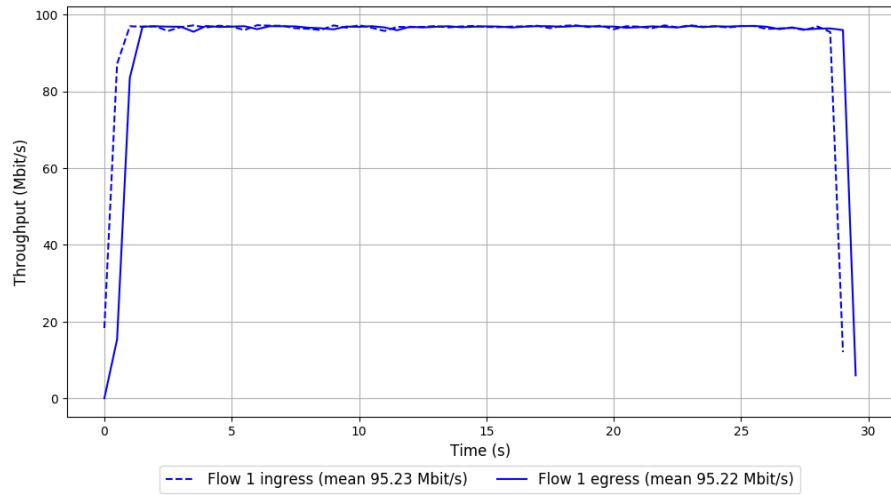


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 22:20:08
End at: 2019-01-21 22:20:38
Local clock offset: 0.602 ms
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2019-01-21 23:30:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.22 Mbit/s
95th percentile per-packet one-way delay: 36.710 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.22 Mbit/s
95th percentile per-packet one-way delay: 36.710 ms
Loss rate: 0.23%
```

Run 3: Report of Indigo-MusesD — Data Link

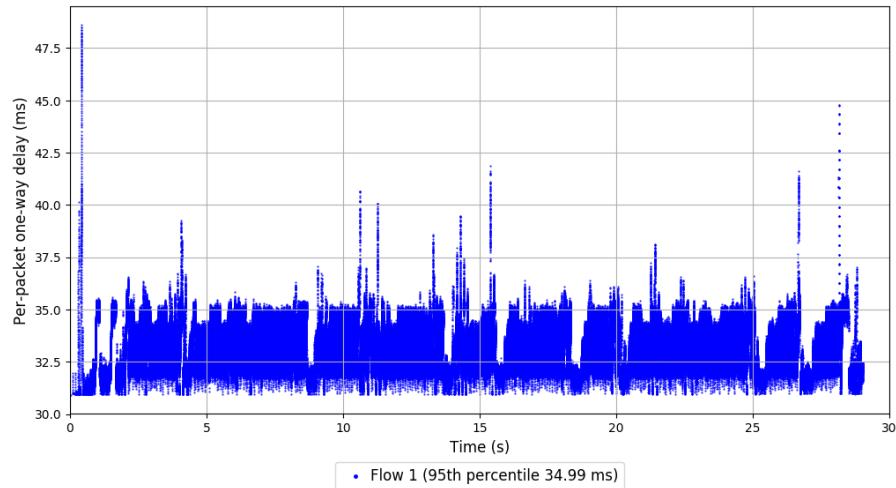
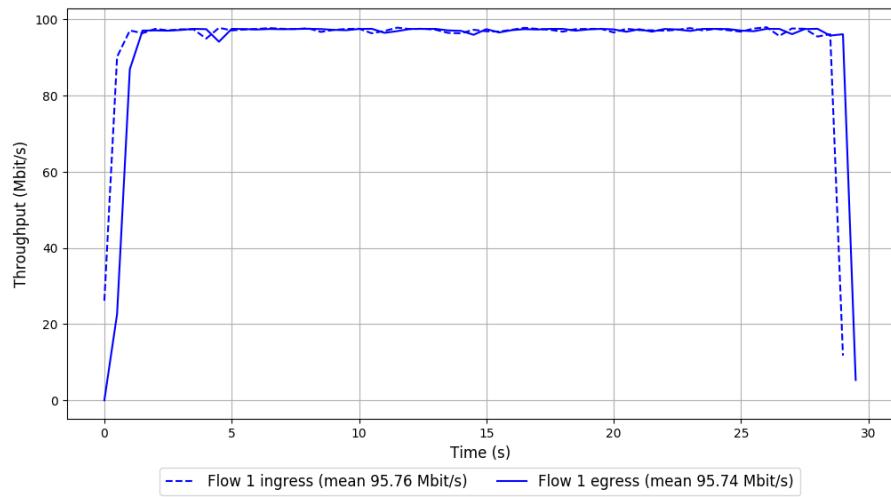


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 22:48:03
End at: 2019-01-21 22:48:33
Local clock offset: 0.657 ms
Remote clock offset: 2.151 ms

# Below is generated by plot.py at 2019-01-21 23:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 34.988 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 34.988 ms
Loss rate: 0.24%
```

Run 4: Report of Indigo-MusesD — Data Link

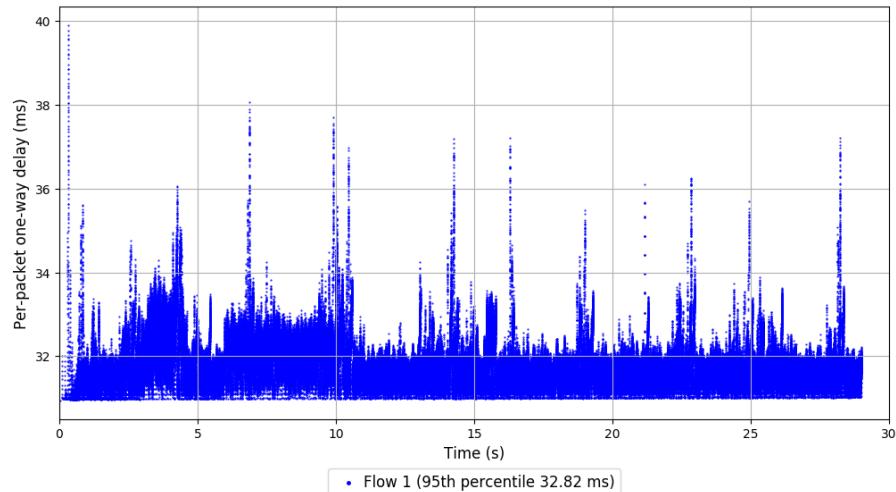
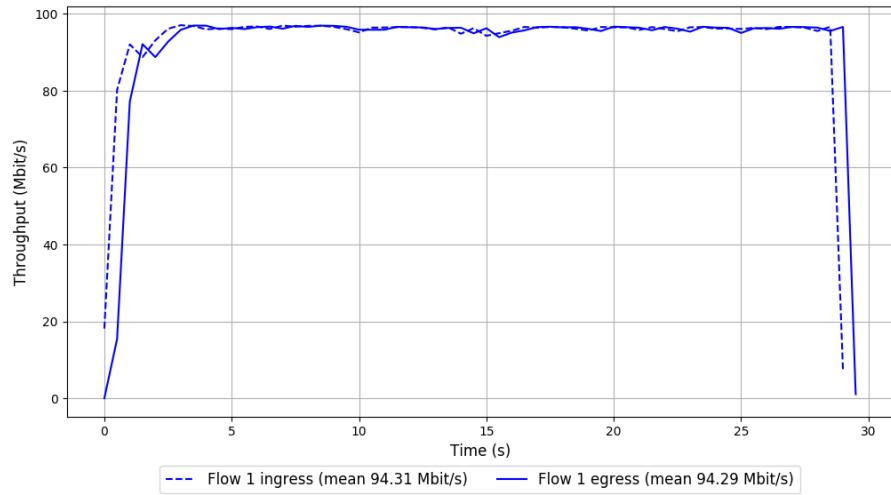


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 23:16:36
End at: 2019-01-21 23:17:06
Local clock offset: -0.365 ms
Remote clock offset: 1.31 ms

# Below is generated by plot.py at 2019-01-21 23:30:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 32.824 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 32.824 ms
Loss rate: 0.24%
```

Run 5: Report of Indigo-MusesD — Data Link

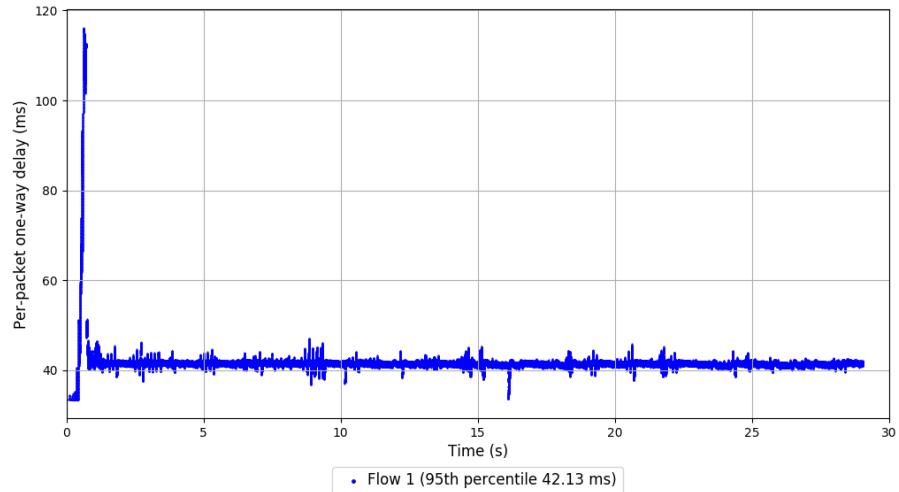
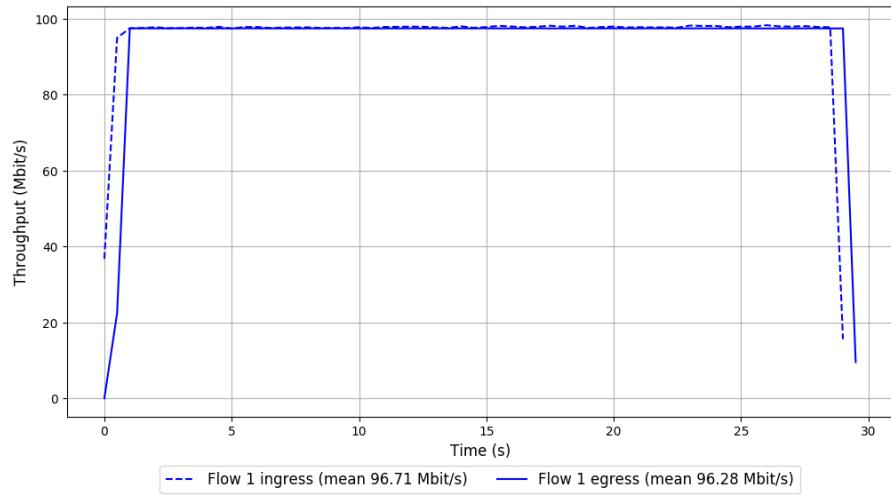


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 21:18:12
End at: 2019-01-21 21:18:43
Local clock offset: 0.788 ms
Remote clock offset: -1.863 ms

# Below is generated by plot.py at 2019-01-21 23:30:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 42.129 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 42.129 ms
Loss rate: 0.66%
```

Run 1: Report of Indigo-MusesT — Data Link

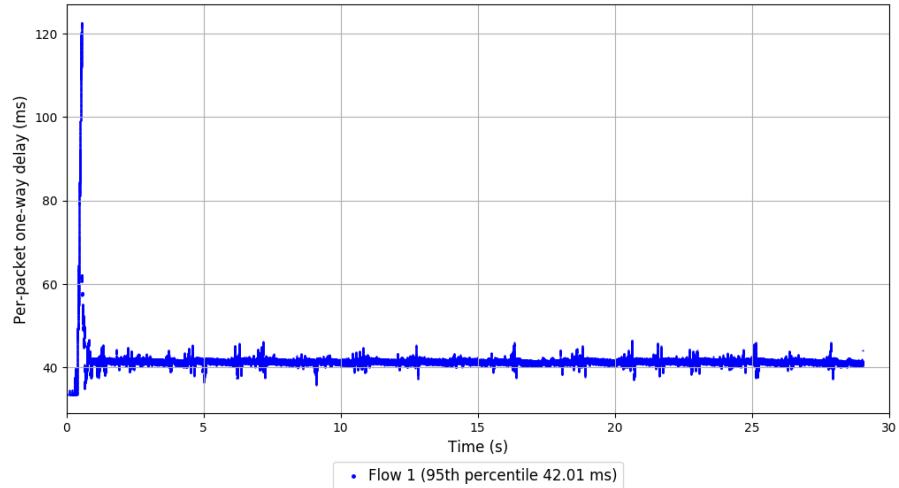
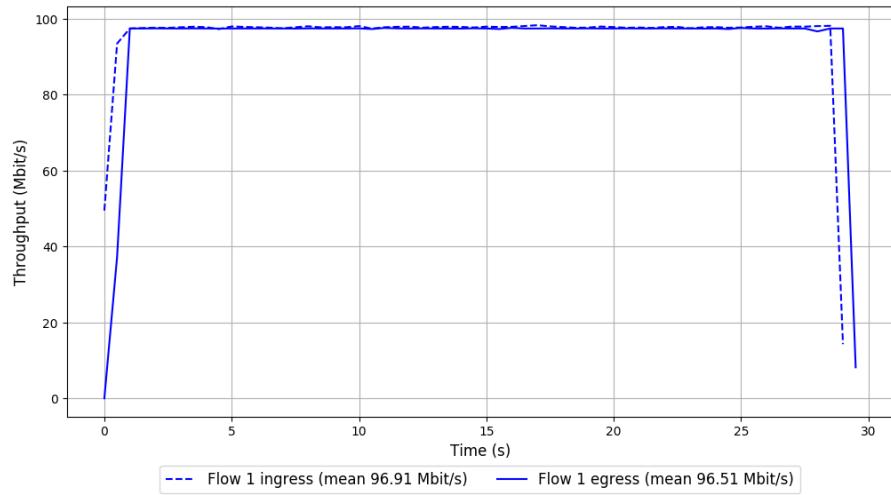


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 21:45:24
End at: 2019-01-21 21:45:54
Local clock offset: -0.161 ms
Remote clock offset: -0.908 ms

# Below is generated by plot.py at 2019-01-21 23:30:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 42.011 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 42.011 ms
Loss rate: 0.61%
```

Run 2: Report of Indigo-MusesT — Data Link

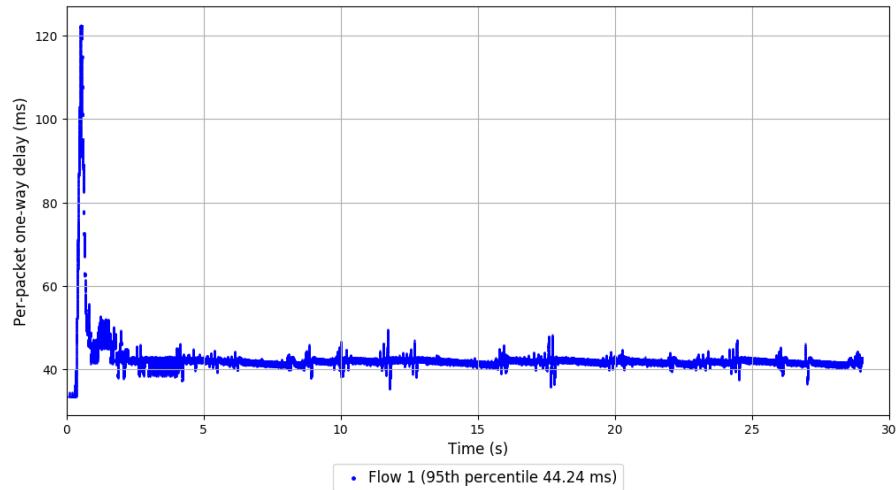
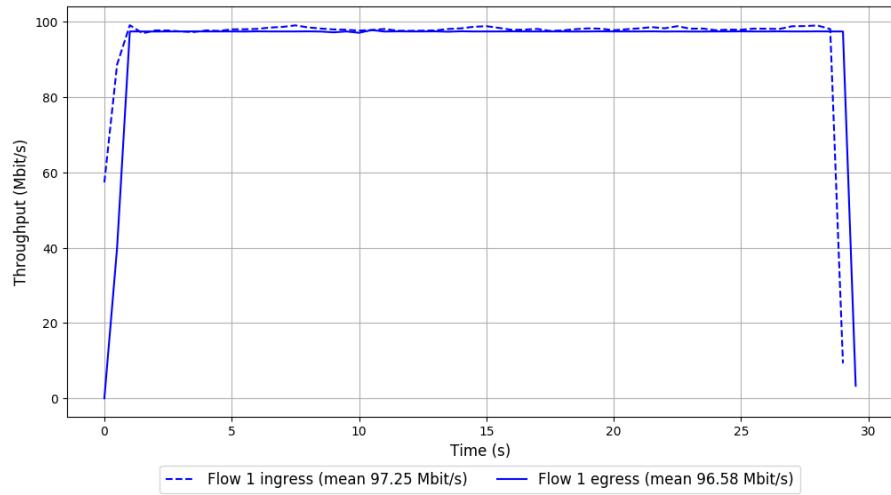


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 22:13:15
End at: 2019-01-21 22:13:45
Local clock offset: 0.433 ms
Remote clock offset: -0.204 ms

# Below is generated by plot.py at 2019-01-21 23:31:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 44.241 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 44.241 ms
Loss rate: 0.91%
```

Run 3: Report of Indigo-MusesT — Data Link

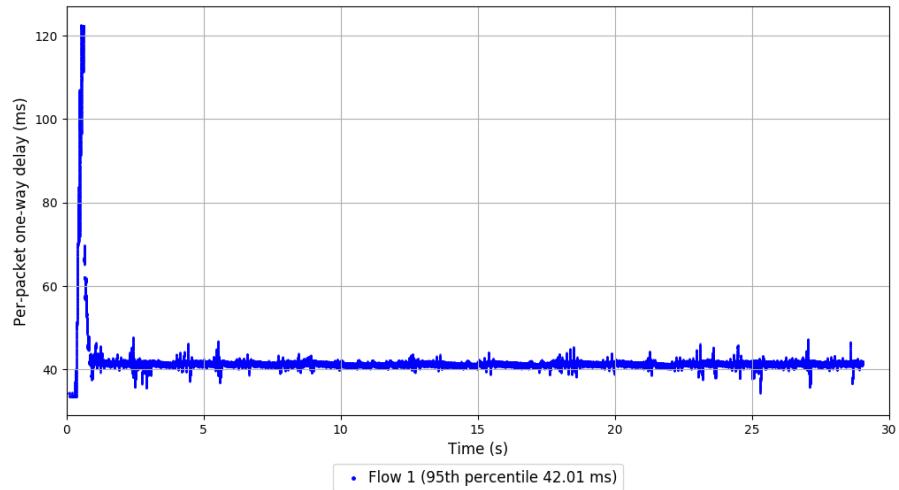
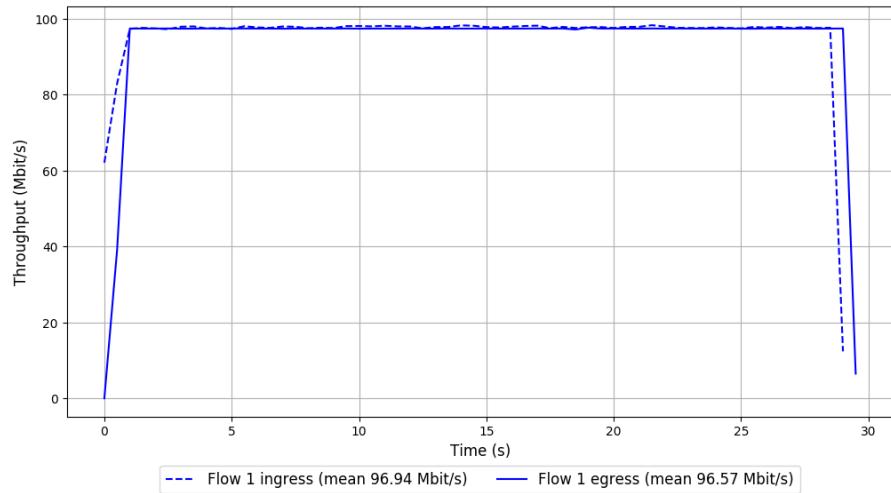


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 22:41:23
End at: 2019-01-21 22:41:53
Local clock offset: 0.853 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-01-21 23:31:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 42.012 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 42.012 ms
Loss rate: 0.60%
```

Run 4: Report of Indigo-MusesT — Data Link

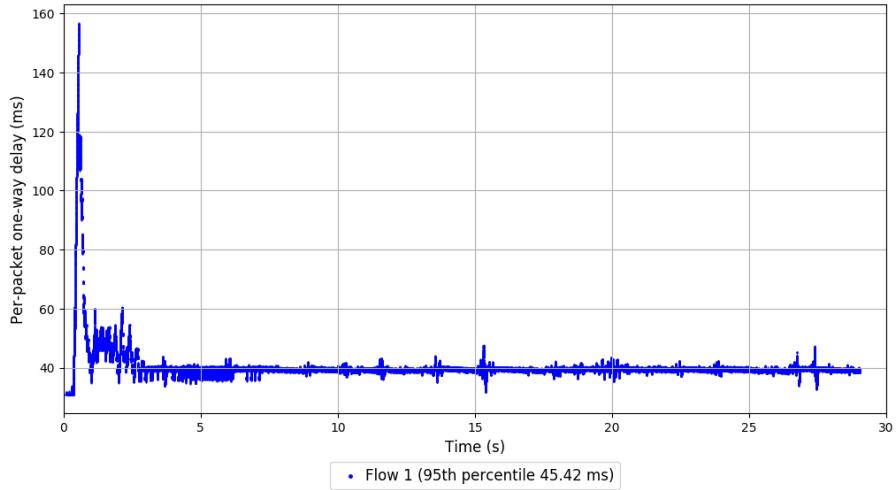
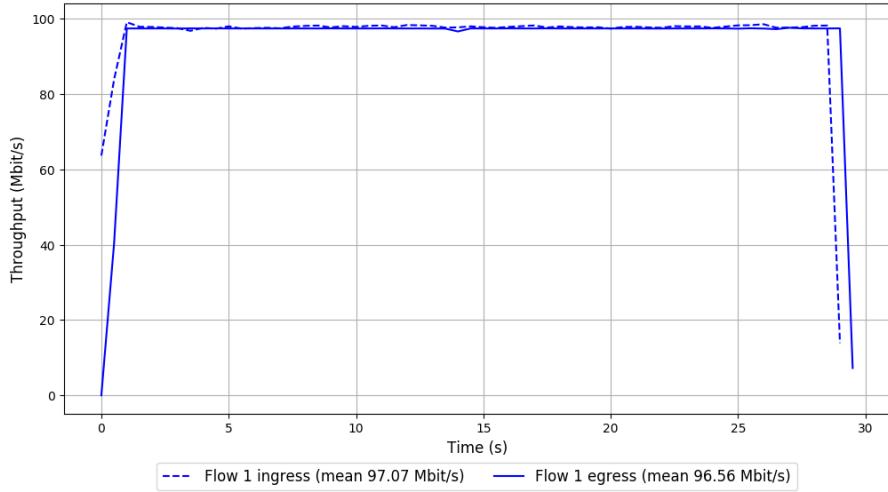


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 23:09:55
End at: 2019-01-21 23:10:25
Local clock offset: -0.19 ms
Remote clock offset: 1.48 ms

# Below is generated by plot.py at 2019-01-21 23:31:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 45.423 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 45.423 ms
Loss rate: 0.74%
```

Run 5: Report of Indigo-MusesT — Data Link

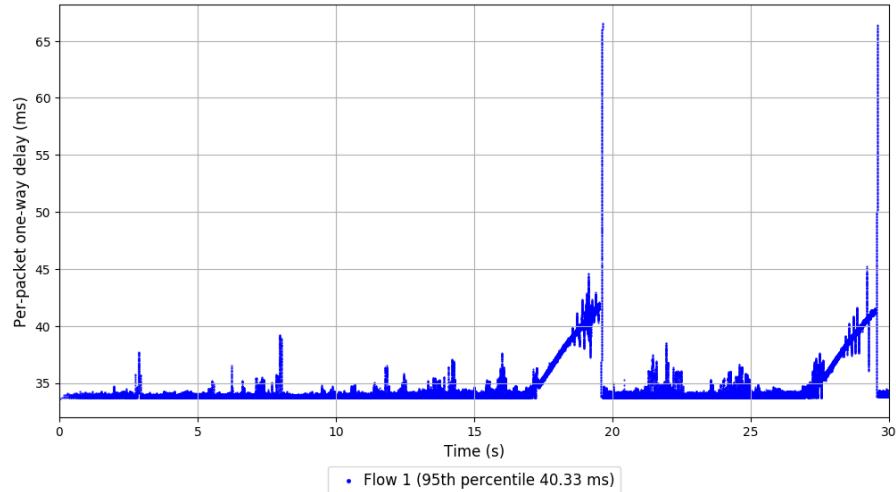
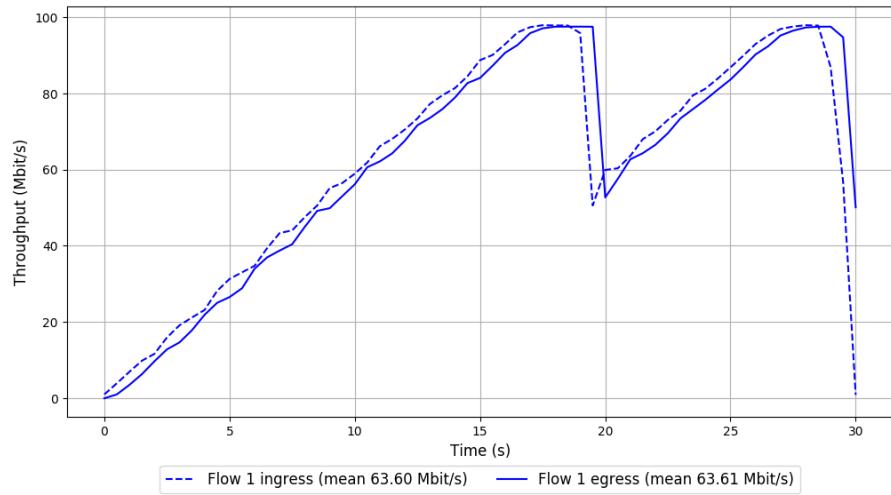


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-21 21:19:25
End at: 2019-01-21 21:19:55
Local clock offset: 0.671 ms
Remote clock offset: -2.016 ms

# Below is generated by plot.py at 2019-01-21 23:31:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.61 Mbit/s
95th percentile per-packet one-way delay: 40.328 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 63.61 Mbit/s
95th percentile per-packet one-way delay: 40.328 ms
Loss rate: 0.19%
```

Run 1: Report of LEDBAT — Data Link

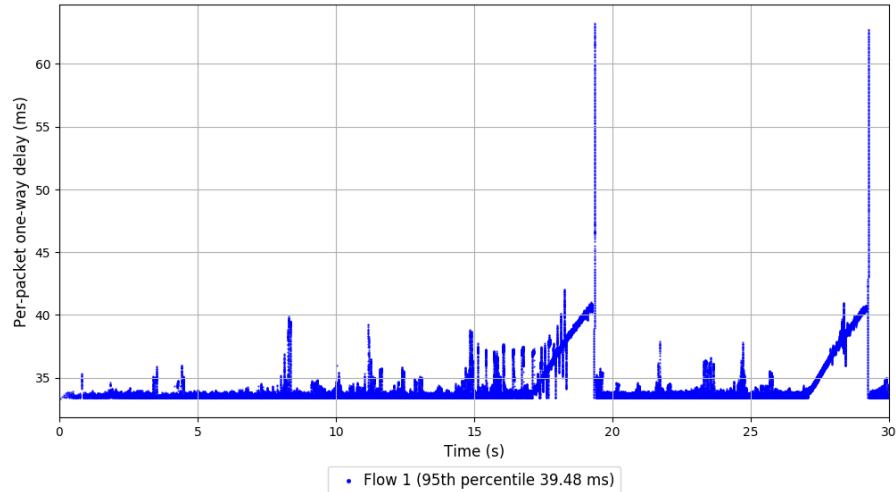
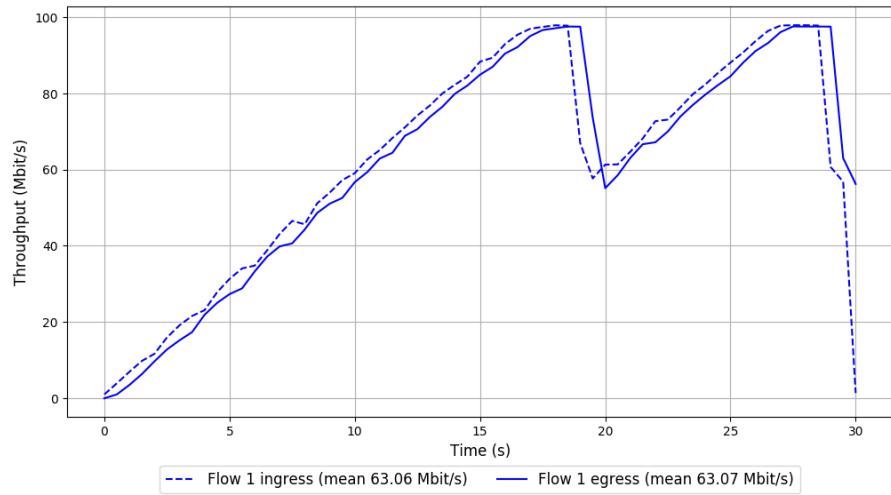


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-21 21:46:43
End at: 2019-01-21 21:47:13
Local clock offset: -0.108 ms
Remote clock offset: -0.889 ms

# Below is generated by plot.py at 2019-01-21 23:31:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.07 Mbit/s
95th percentile per-packet one-way delay: 39.485 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 63.07 Mbit/s
95th percentile per-packet one-way delay: 39.485 ms
Loss rate: 0.20%
```

Run 2: Report of LEDBAT — Data Link

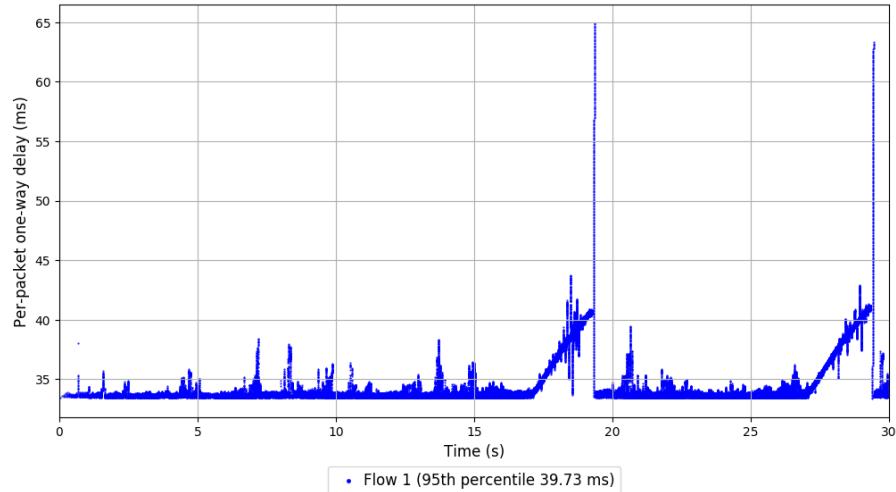
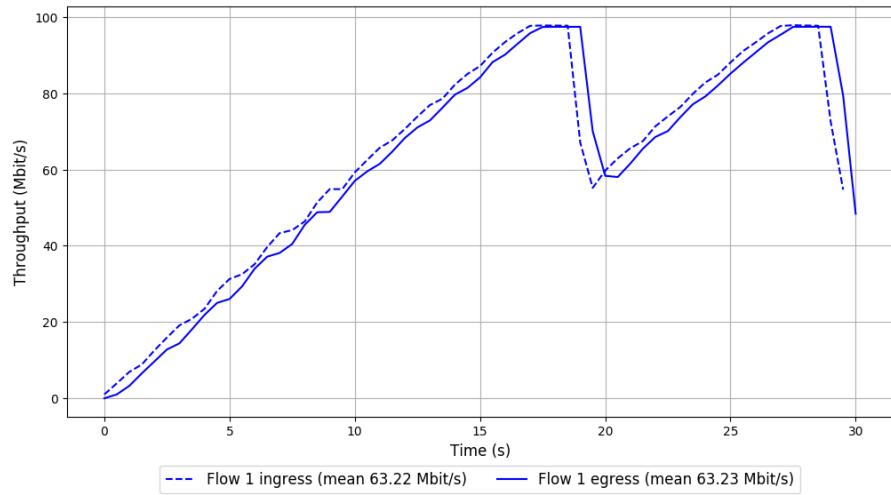


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-21 22:14:40
End at: 2019-01-21 22:15:10
Local clock offset: 0.454 ms
Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2019-01-21 23:31:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.23 Mbit/s
95th percentile per-packet one-way delay: 39.729 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 63.23 Mbit/s
95th percentile per-packet one-way delay: 39.729 ms
Loss rate: 0.20%
```

Run 3: Report of LEDBAT — Data Link

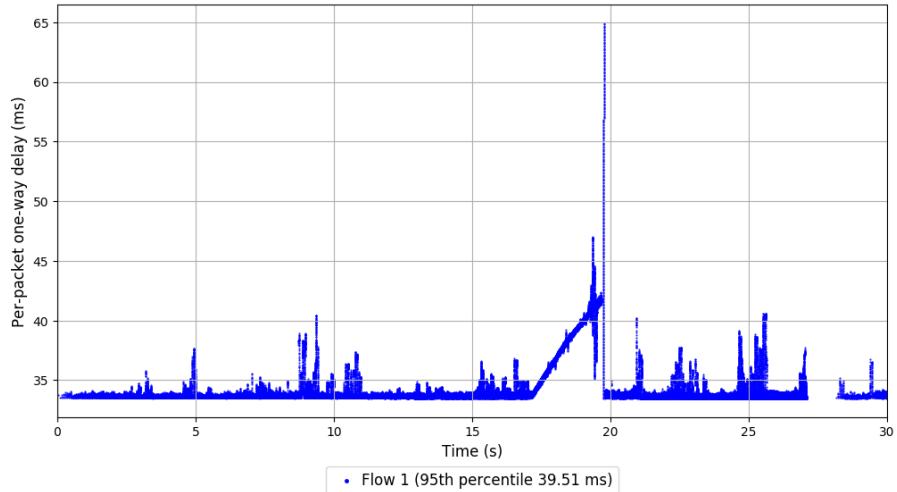
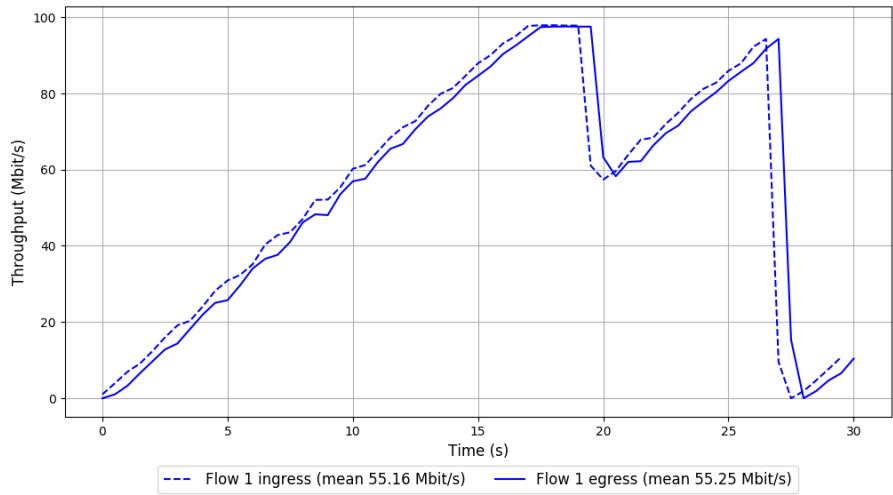


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-21 22:42:47
End at: 2019-01-21 22:43:17
Local clock offset: 0.865 ms
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2019-01-21 23:31:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.25 Mbit/s
95th percentile per-packet one-way delay: 39.505 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 55.25 Mbit/s
95th percentile per-packet one-way delay: 39.505 ms
Loss rate: 0.07%
```

Run 4: Report of LEDBAT — Data Link

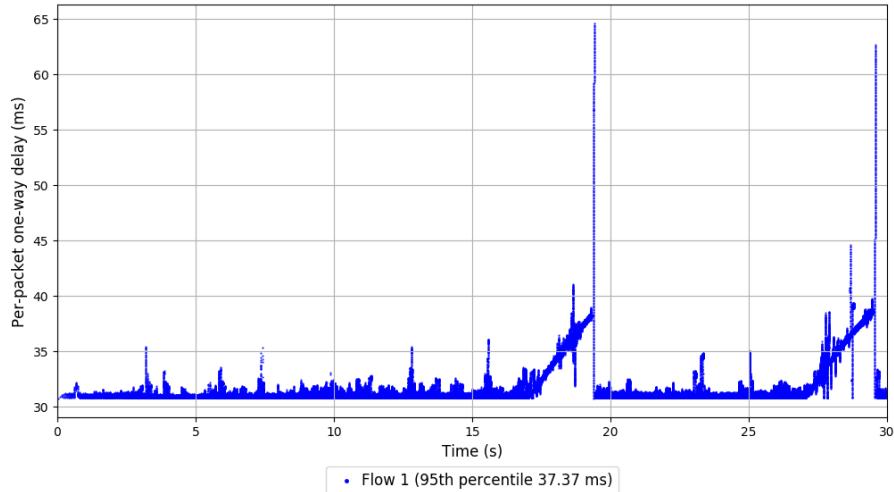
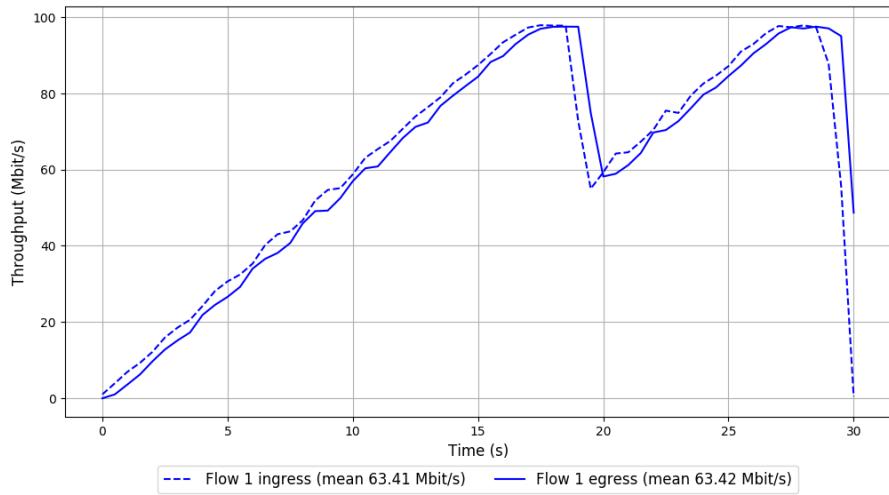


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-21 23:11:16
End at: 2019-01-21 23:11:46
Local clock offset: -0.21 ms
Remote clock offset: 1.465 ms

# Below is generated by plot.py at 2019-01-21 23:31:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.42 Mbit/s
95th percentile per-packet one-way delay: 37.373 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 63.42 Mbit/s
95th percentile per-packet one-way delay: 37.373 ms
Loss rate: 0.19%
```

Run 5: Report of LEDBAT — Data Link

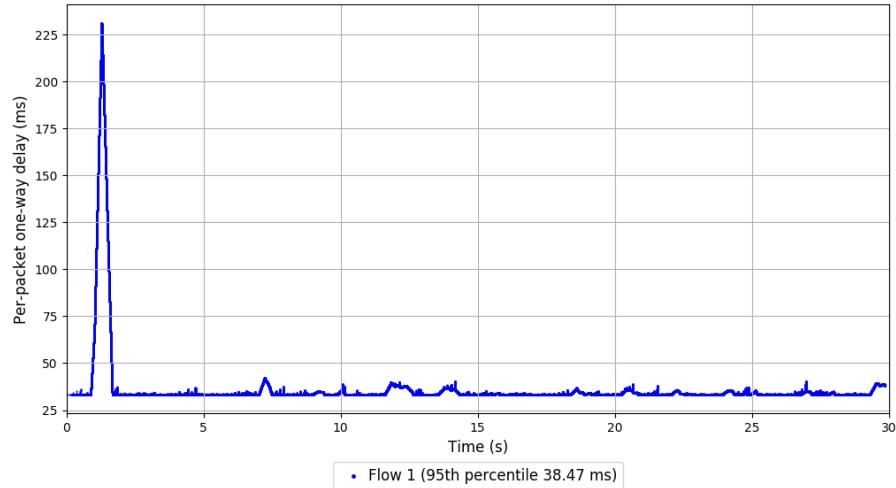
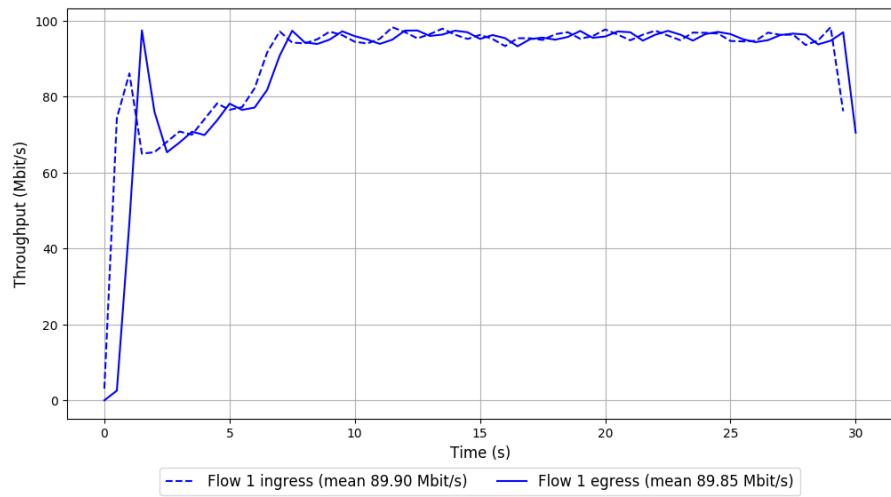


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-21 21:09:19
End at: 2019-01-21 21:09:49
Local clock offset: 0.962 ms
Remote clock offset: -2.178 ms

# Below is generated by plot.py at 2019-01-21 23:31:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.85 Mbit/s
95th percentile per-packet one-way delay: 38.465 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 89.85 Mbit/s
95th percentile per-packet one-way delay: 38.465 ms
Loss rate: 0.27%
```

Run 1: Report of PCC-Allegro — Data Link

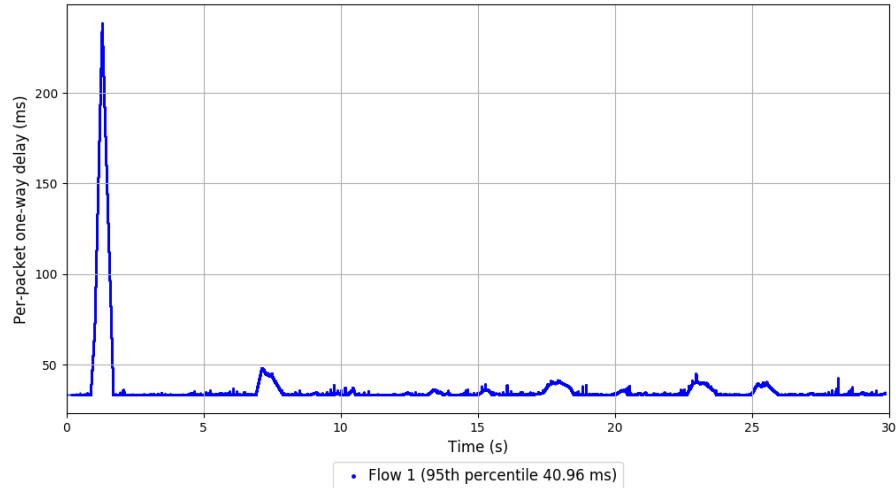
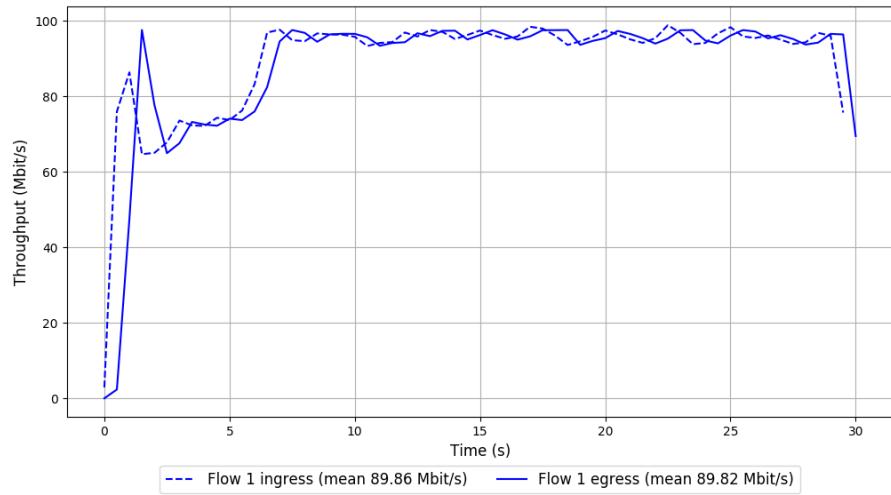


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-21 21:36:15
End at: 2019-01-21 21:36:45
Local clock offset: -0.009 ms
Remote clock offset: -1.273 ms

# Below is generated by plot.py at 2019-01-21 23:32:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.82 Mbit/s
95th percentile per-packet one-way delay: 40.957 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 89.82 Mbit/s
95th percentile per-packet one-way delay: 40.957 ms
Loss rate: 0.25%
```

Run 2: Report of PCC-Allegro — Data Link

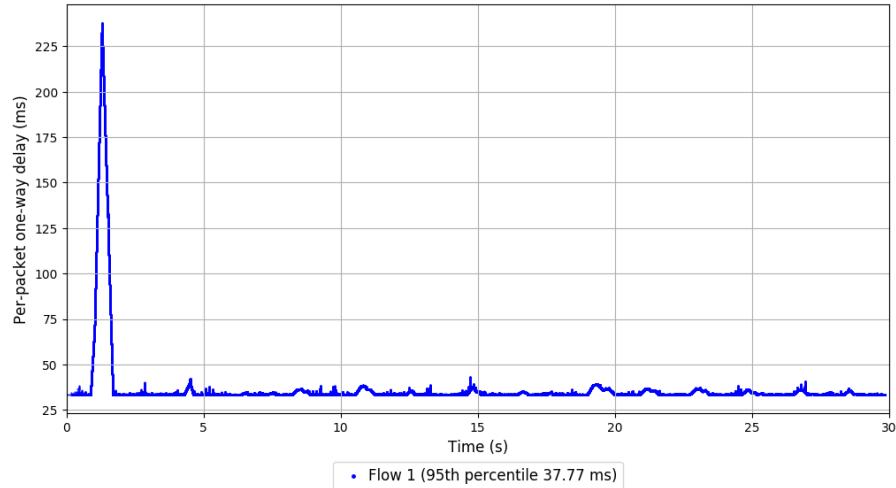
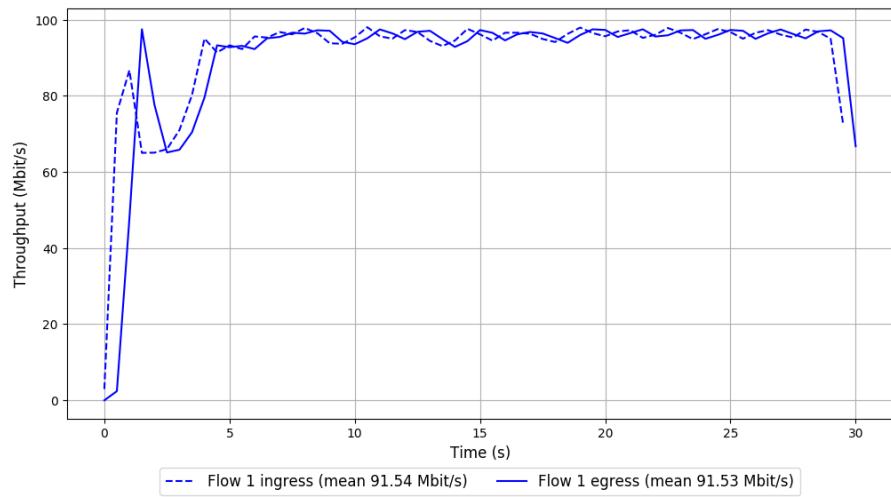


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-21 22:04:13
End at: 2019-01-21 22:04:43
Local clock offset: 0.397 ms
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2019-01-21 23:32:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.53 Mbit/s
95th percentile per-packet one-way delay: 37.774 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 91.53 Mbit/s
95th percentile per-packet one-way delay: 37.774 ms
Loss rate: 0.23%
```

Run 3: Report of PCC-Allegro — Data Link

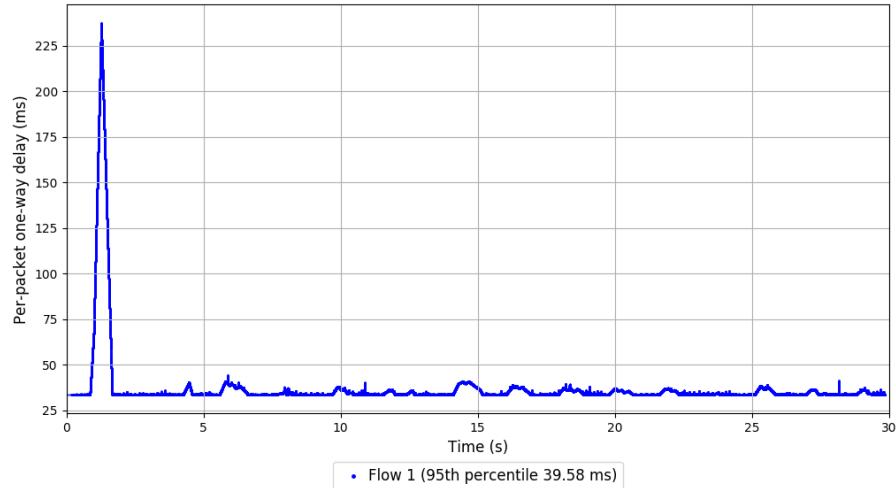
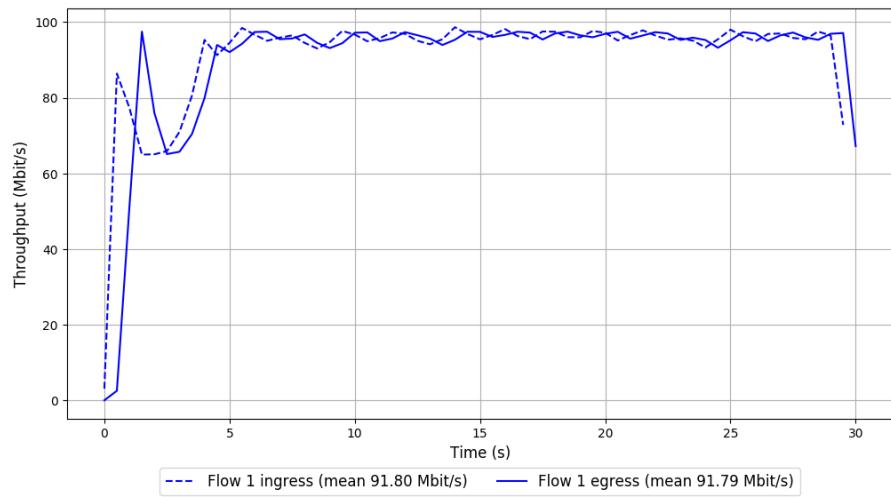


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-21 22:32:21
End at: 2019-01-21 22:32:51
Local clock offset: 0.793 ms
Remote clock offset: -0.338 ms

# Below is generated by plot.py at 2019-01-21 23:32:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.79 Mbit/s
95th percentile per-packet one-way delay: 39.581 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 91.79 Mbit/s
95th percentile per-packet one-way delay: 39.581 ms
Loss rate: 0.23%
```

Run 4: Report of PCC-Allegro — Data Link

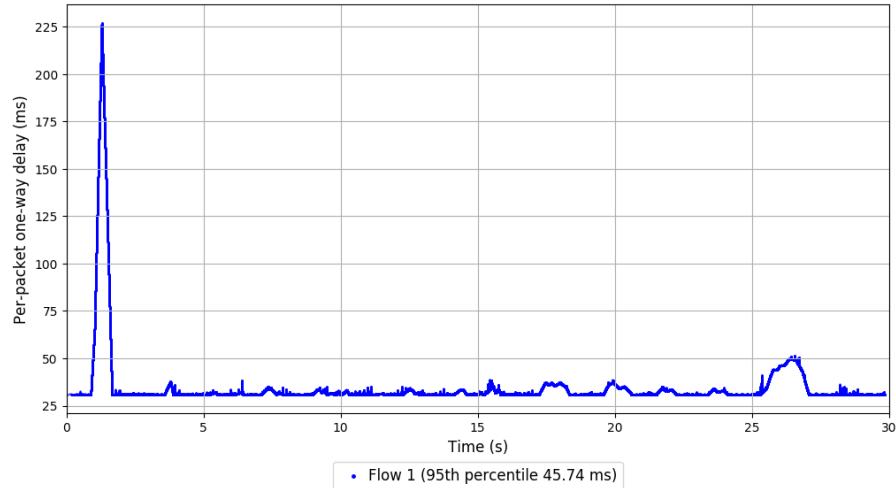
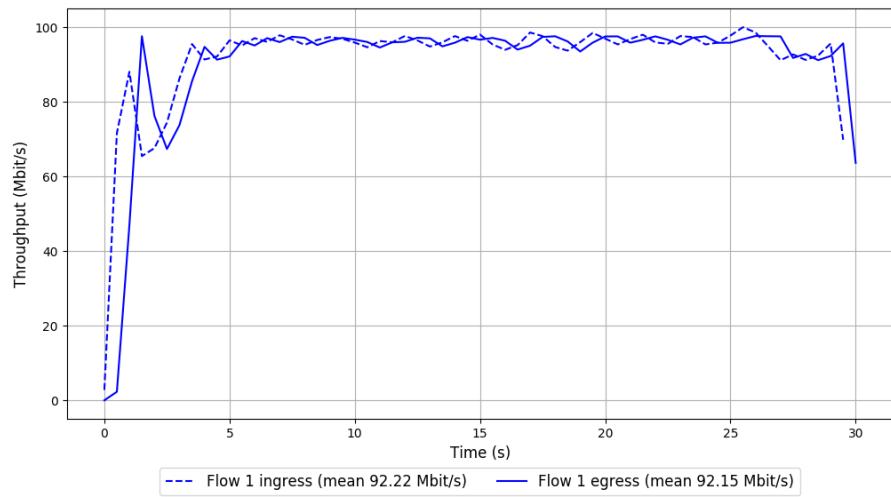


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-21 23:00:46
End at: 2019-01-21 23:01:16
Local clock offset: -0.003 ms
Remote clock offset: 1.727 ms

# Below is generated by plot.py at 2019-01-21 23:32:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.15 Mbit/s
95th percentile per-packet one-way delay: 45.742 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 92.15 Mbit/s
95th percentile per-packet one-way delay: 45.742 ms
Loss rate: 0.28%
```

Run 5: Report of PCC-Allegro — Data Link

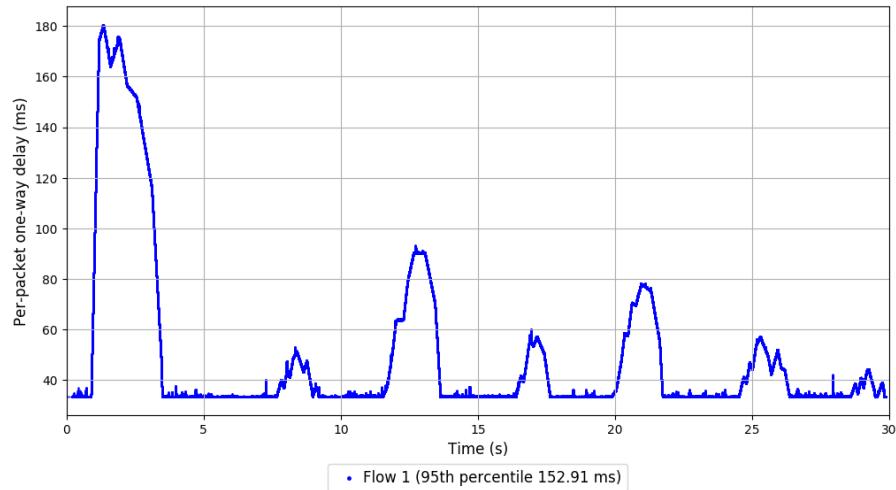
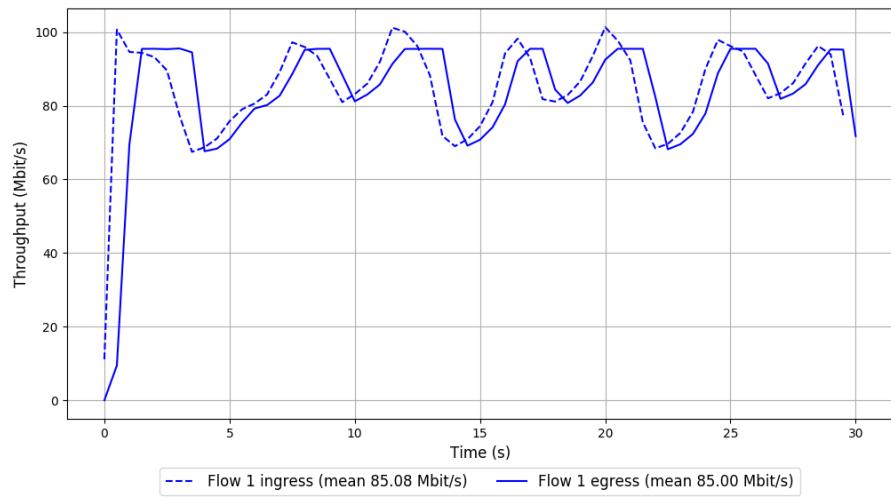


Run 1: Statistics of PCC-Expr

```
Start at: 2019-01-21 21:25:46
End at: 2019-01-21 21:26:16
Local clock offset: 0.319 ms
Remote clock offset: -1.598 ms

# Below is generated by plot.py at 2019-01-21 23:33:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.00 Mbit/s
95th percentile per-packet one-way delay: 152.905 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 85.00 Mbit/s
95th percentile per-packet one-way delay: 152.905 ms
Loss rate: 0.30%
```

Run 1: Report of PCC-Expr — Data Link

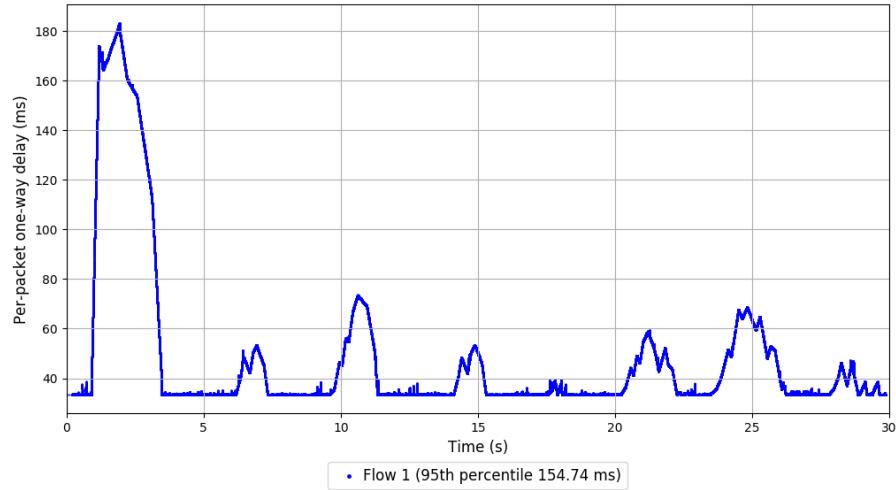
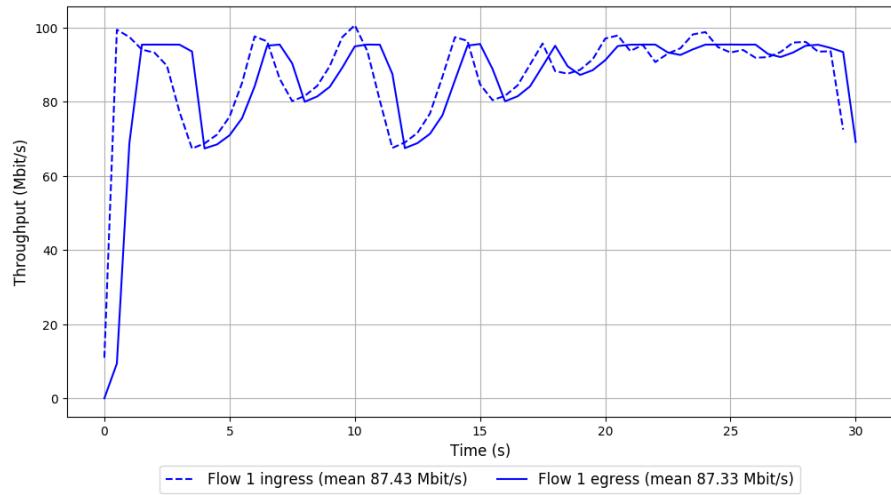


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-21 21:53:27
End at: 2019-01-21 21:53:57
Local clock offset: 0.183 ms
Remote clock offset: -0.66 ms

# Below is generated by plot.py at 2019-01-21 23:33:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.33 Mbit/s
95th percentile per-packet one-way delay: 154.736 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 87.33 Mbit/s
95th percentile per-packet one-way delay: 154.736 ms
Loss rate: 0.34%
```

Run 2: Report of PCC-Expr — Data Link

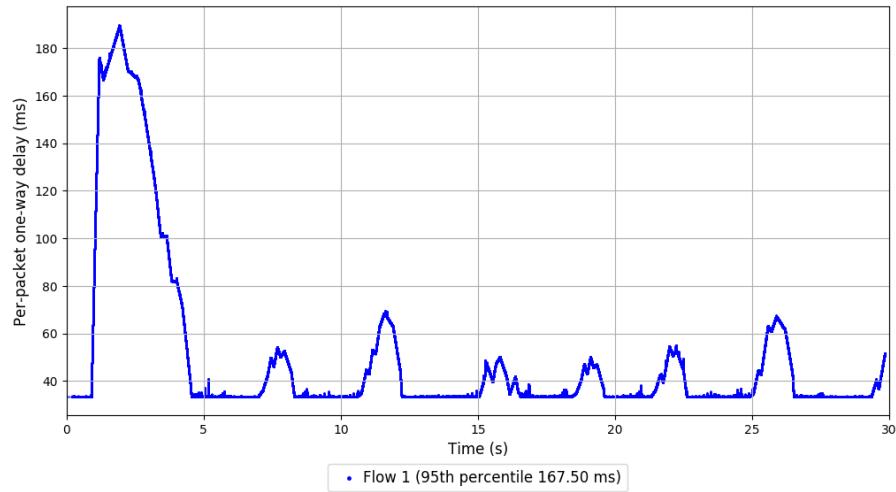
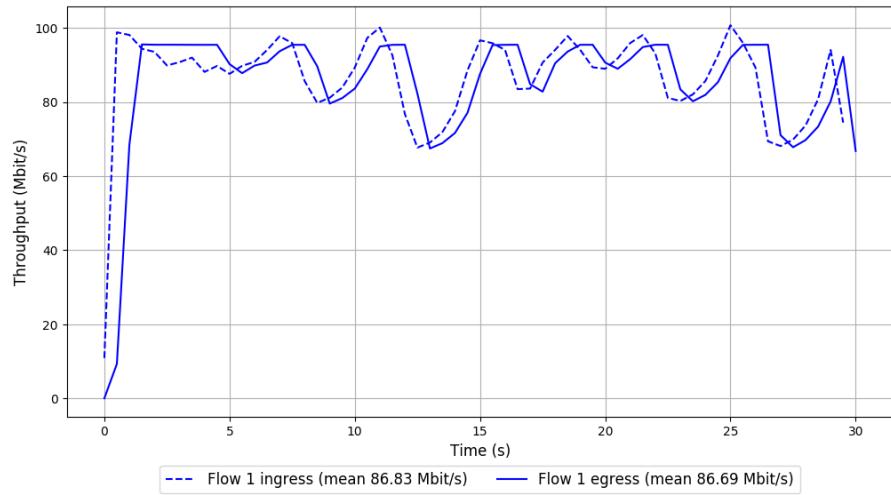


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-21 22:21:29
End at: 2019-01-21 22:21:59
Local clock offset: 0.648 ms
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2019-01-21 23:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.69 Mbit/s
95th percentile per-packet one-way delay: 167.495 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 86.69 Mbit/s
95th percentile per-packet one-way delay: 167.495 ms
Loss rate: 0.39%
```

Run 3: Report of PCC-Expr — Data Link

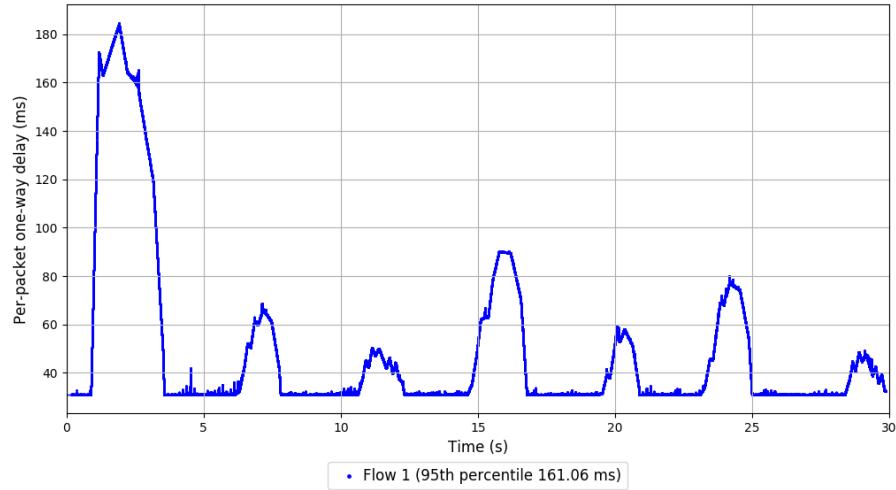
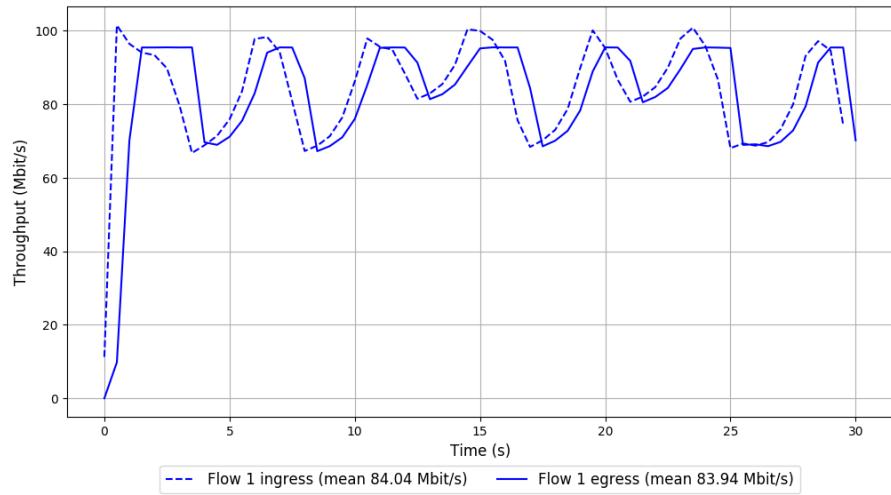


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-21 22:49:18
End at: 2019-01-21 22:49:48
Local clock offset: 0.563 ms
Remote clock offset: 2.112 ms

# Below is generated by plot.py at 2019-01-21 23:33:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.94 Mbit/s
95th percentile per-packet one-way delay: 161.064 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 83.94 Mbit/s
95th percentile per-packet one-way delay: 161.064 ms
Loss rate: 0.33%
```

Run 4: Report of PCC-Expr — Data Link

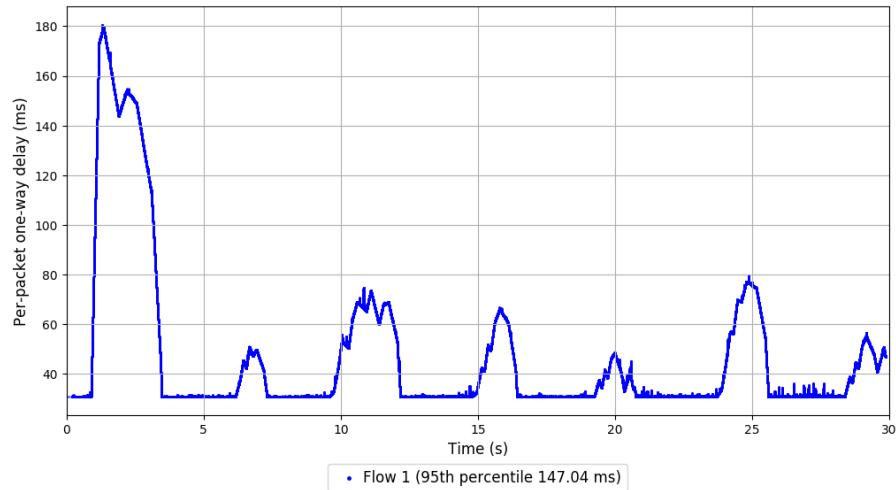
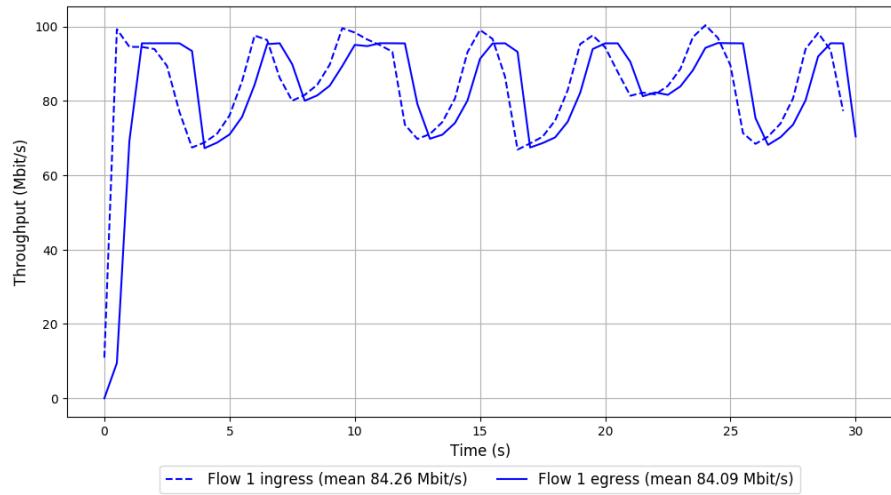


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-21 23:17:58
End at: 2019-01-21 23:18:28
Local clock offset: -0.569 ms
Remote clock offset: 1.26 ms

# Below is generated by plot.py at 2019-01-21 23:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.09 Mbit/s
95th percentile per-packet one-way delay: 147.043 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 84.09 Mbit/s
95th percentile per-packet one-way delay: 147.043 ms
Loss rate: 0.40%
```

Run 5: Report of PCC-Expr — Data Link

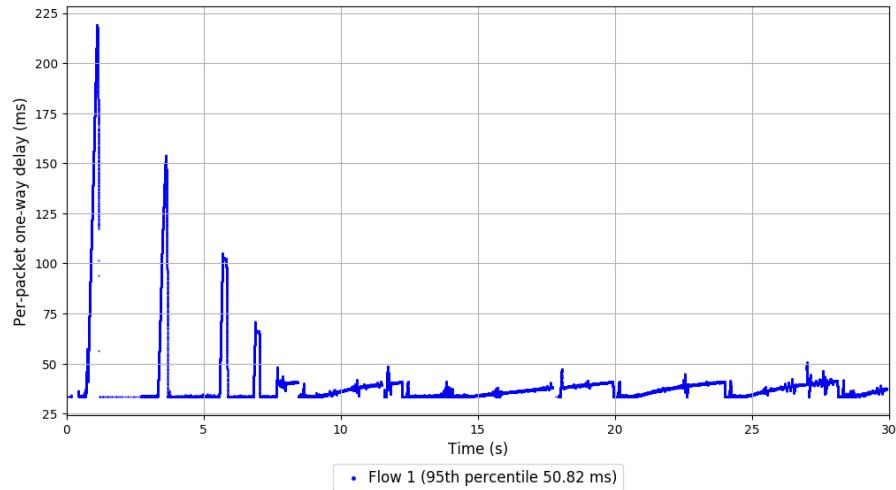
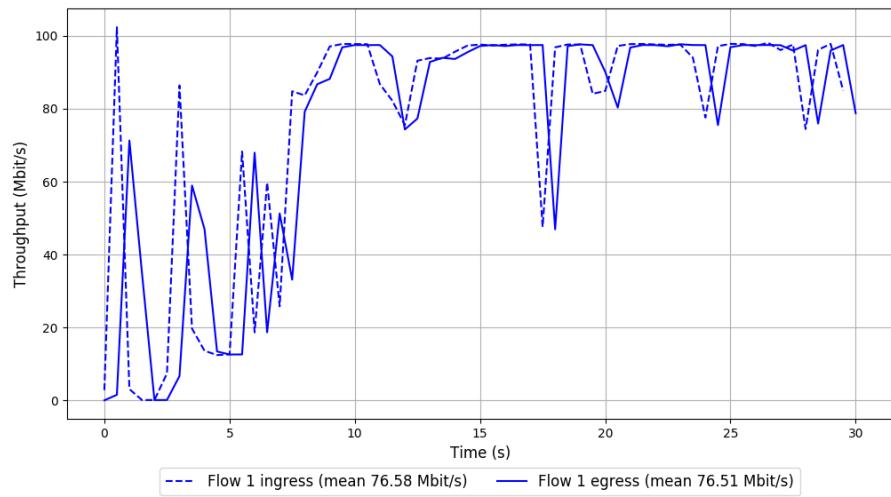


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-01-21 21:05:28
End at: 2019-01-21 21:05:58
Local clock offset: 0.937 ms
Remote clock offset: -2.494 ms

# Below is generated by plot.py at 2019-01-21 23:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.51 Mbit/s
95th percentile per-packet one-way delay: 50.819 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 76.51 Mbit/s
95th percentile per-packet one-way delay: 50.819 ms
Loss rate: 0.30%
```

Run 1: Report of QUIC Cubic — Data Link

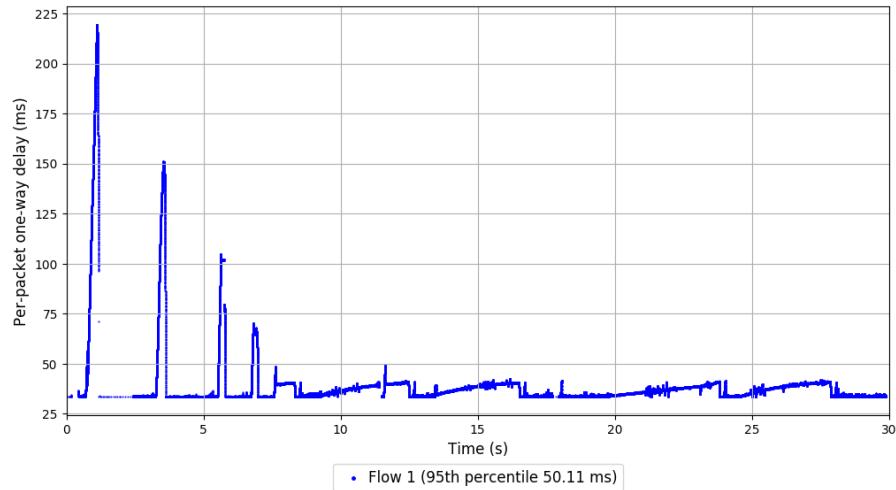
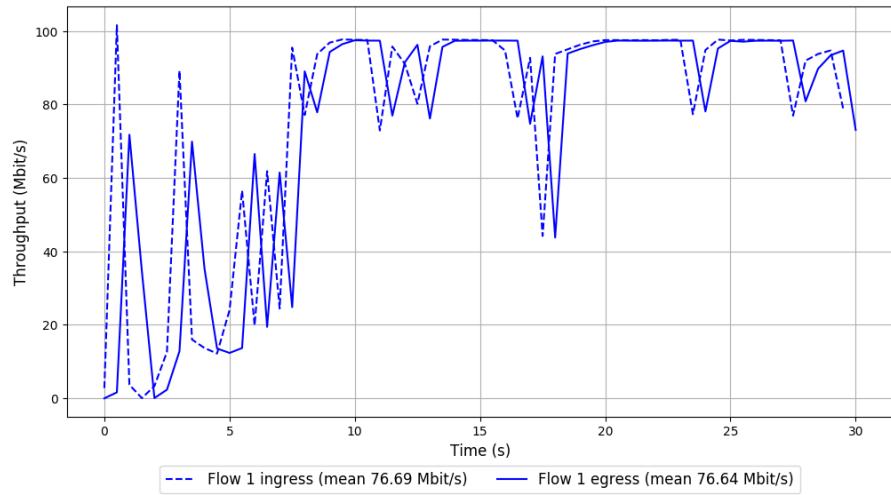


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-21 21:32:17
End at: 2019-01-21 21:32:47
Local clock offset: 0.08 ms
Remote clock offset: -1.53 ms

# Below is generated by plot.py at 2019-01-21 23:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.64 Mbit/s
95th percentile per-packet one-way delay: 50.113 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 76.64 Mbit/s
95th percentile per-packet one-way delay: 50.113 ms
Loss rate: 0.28%
```

Run 2: Report of QUIC Cubic — Data Link

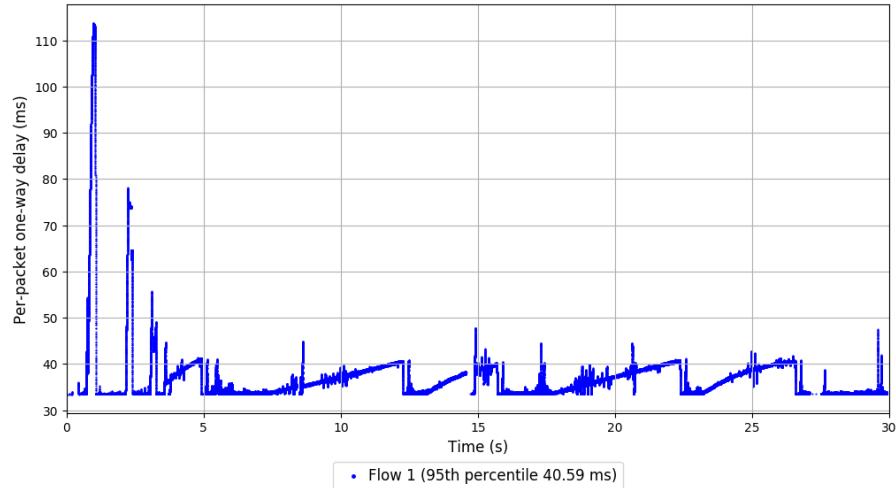
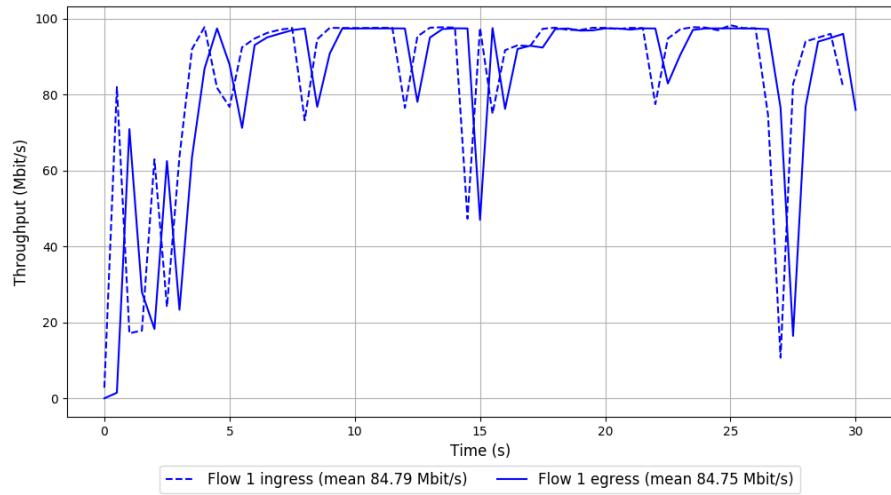


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-21 22:00:24
End at: 2019-01-21 22:00:54
Local clock offset: 0.363 ms
Remote clock offset: -0.354 ms

# Below is generated by plot.py at 2019-01-21 23:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.75 Mbit/s
95th percentile per-packet one-way delay: 40.589 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 84.75 Mbit/s
95th percentile per-packet one-way delay: 40.589 ms
Loss rate: 0.25%
```

Run 3: Report of QUIC Cubic — Data Link

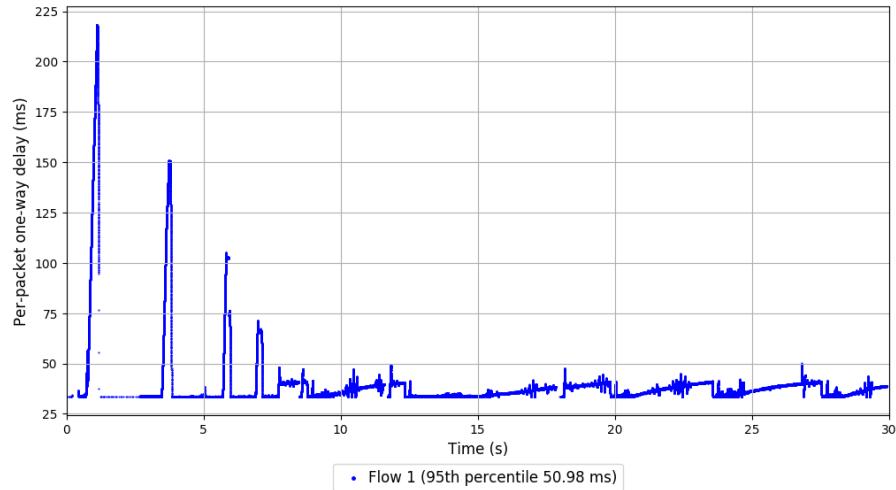
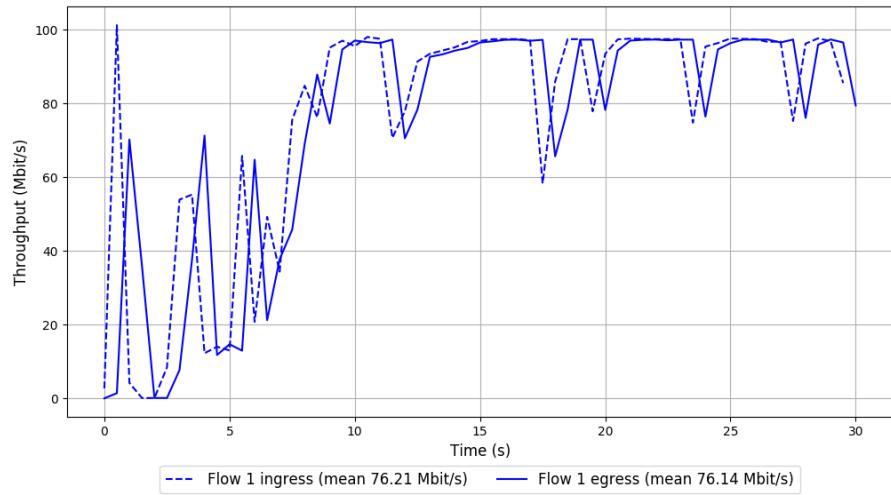


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-21 22:28:17
End at: 2019-01-21 22:28:47
Local clock offset: 0.755 ms
Remote clock offset: -0.325 ms

# Below is generated by plot.py at 2019-01-21 23:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.14 Mbit/s
95th percentile per-packet one-way delay: 50.978 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 76.14 Mbit/s
95th percentile per-packet one-way delay: 50.978 ms
Loss rate: 0.31%
```

Run 4: Report of QUIC Cubic — Data Link

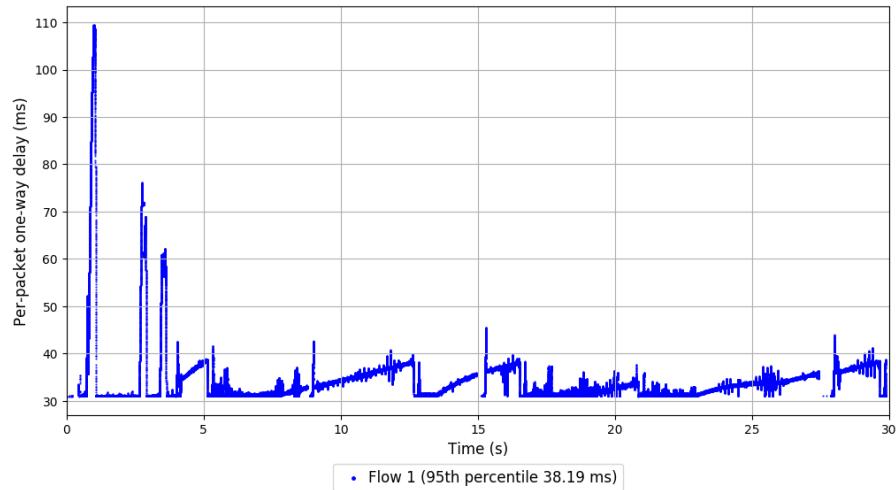
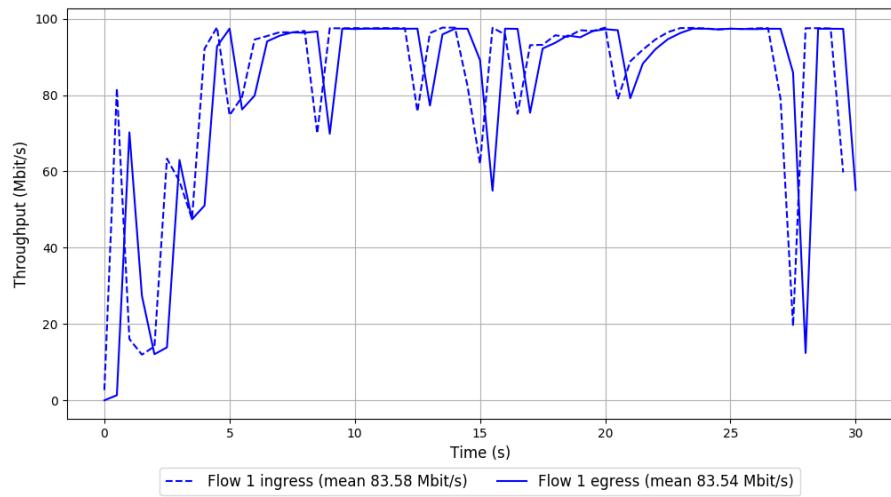


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-21 22:56:28
End at: 2019-01-21 22:56:58
Local clock offset: 0.169 ms
Remote clock offset: 1.829 ms

# Below is generated by plot.py at 2019-01-21 23:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 38.192 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 38.192 ms
Loss rate: 0.27%
```

Run 5: Report of QUIC Cubic — Data Link

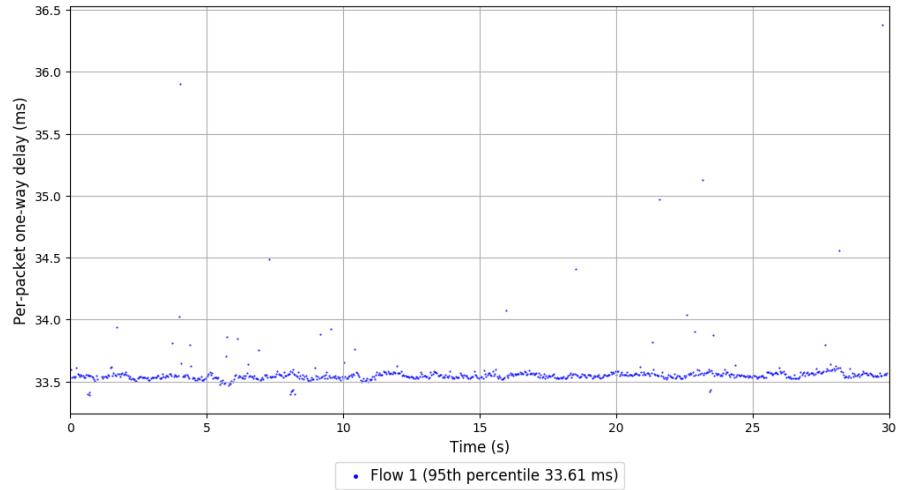
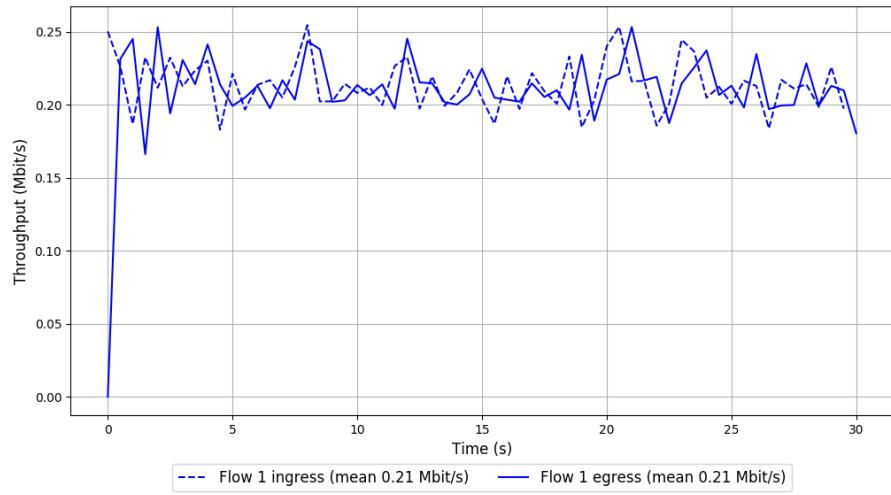


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-01-21 21:28:28
End at: 2019-01-21 21:28:58
Local clock offset: 0.202 ms
Remote clock offset: -1.487 ms

# Below is generated by plot.py at 2019-01-21 23:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.610 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.610 ms
Loss rate: 0.26%
```

Run 1: Report of SCReAM — Data Link

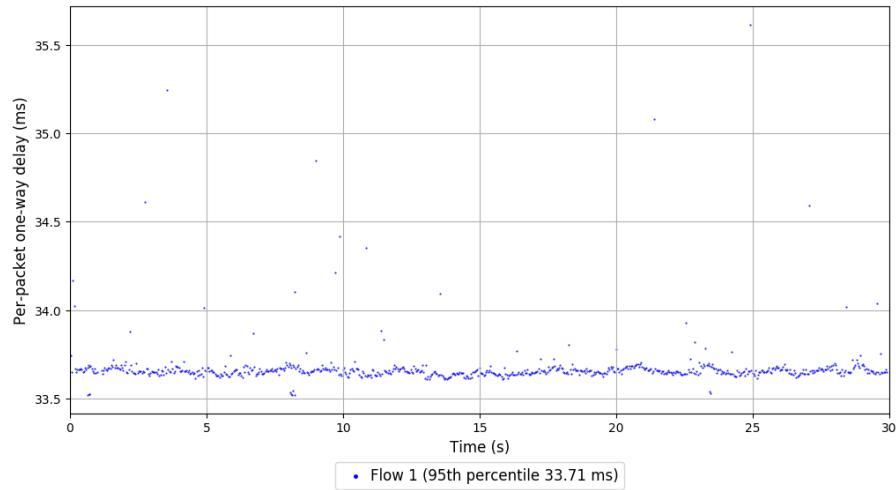
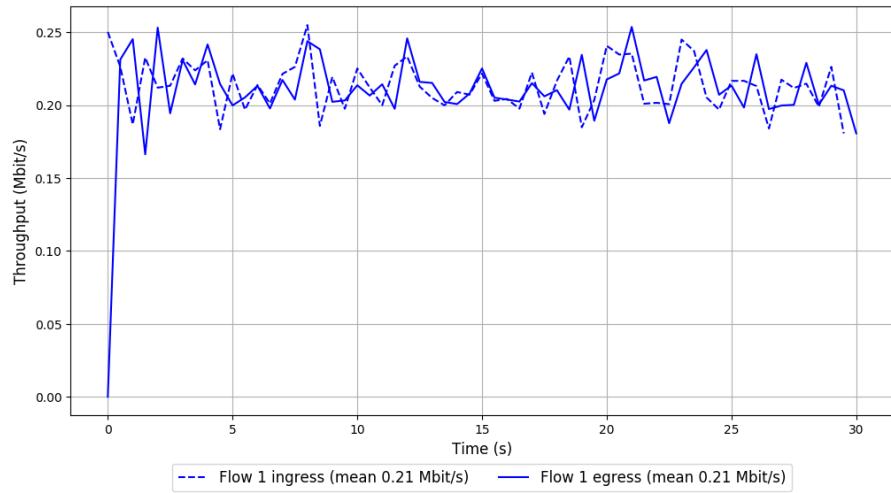


Run 2: Statistics of SCReAM

```
Start at: 2019-01-21 21:56:23
End at: 2019-01-21 21:56:53
Local clock offset: 0.246 ms
Remote clock offset: -0.715 ms

# Below is generated by plot.py at 2019-01-21 23:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.712 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.712 ms
Loss rate: 0.13%
```

Run 2: Report of SCReAM — Data Link

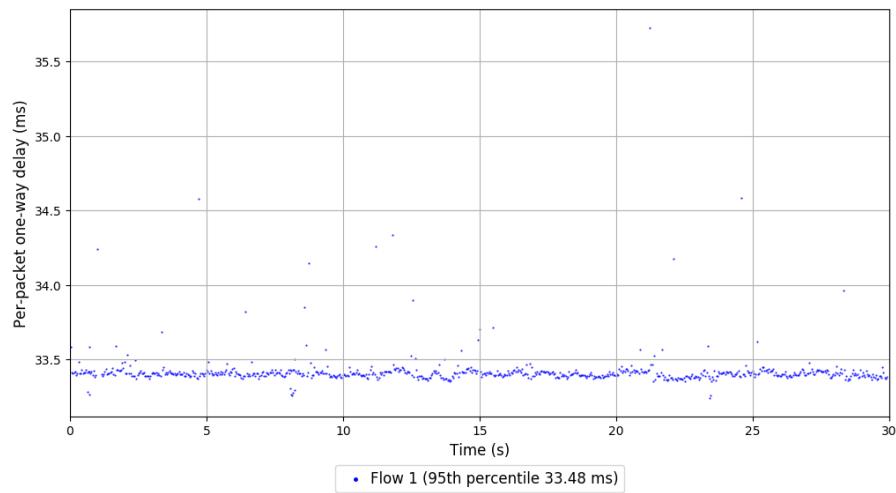
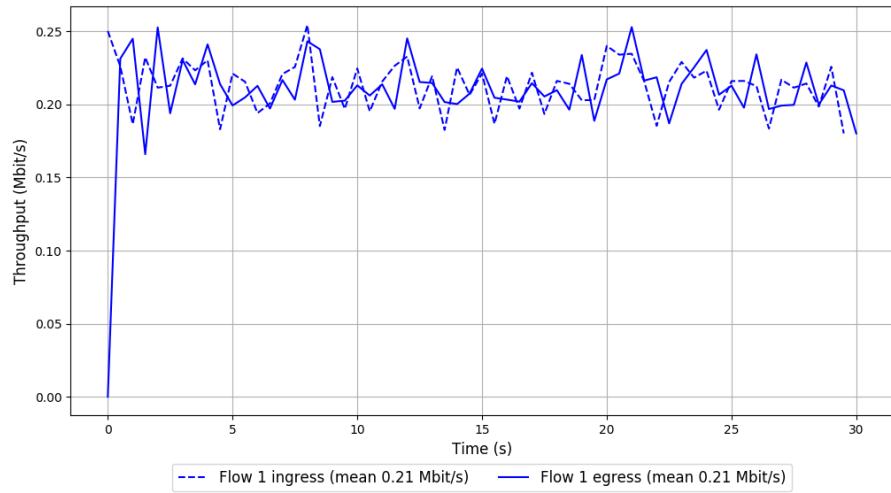


Run 3: Statistics of SCReAM

```
Start at: 2019-01-21 22:24:23
End at: 2019-01-21 22:24:53
Local clock offset: 0.718 ms
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-01-21 23:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.477 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.477 ms
Loss rate: 0.13%
```

Run 3: Report of SCReAM — Data Link

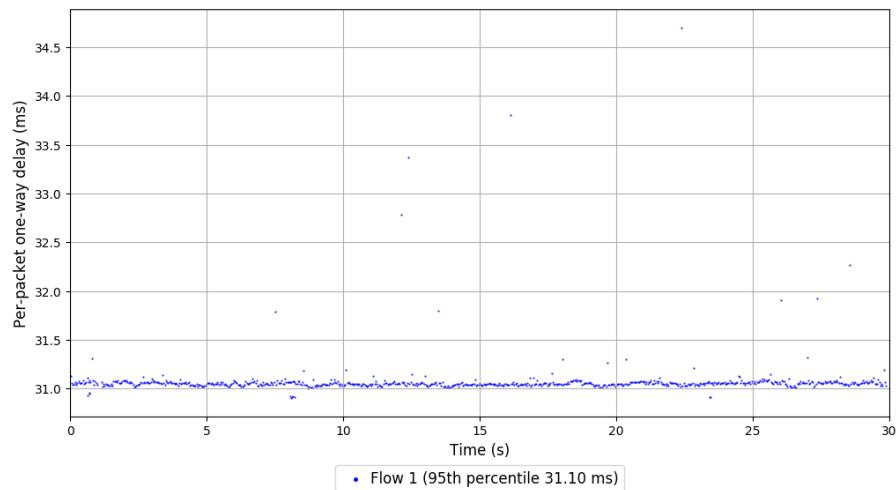
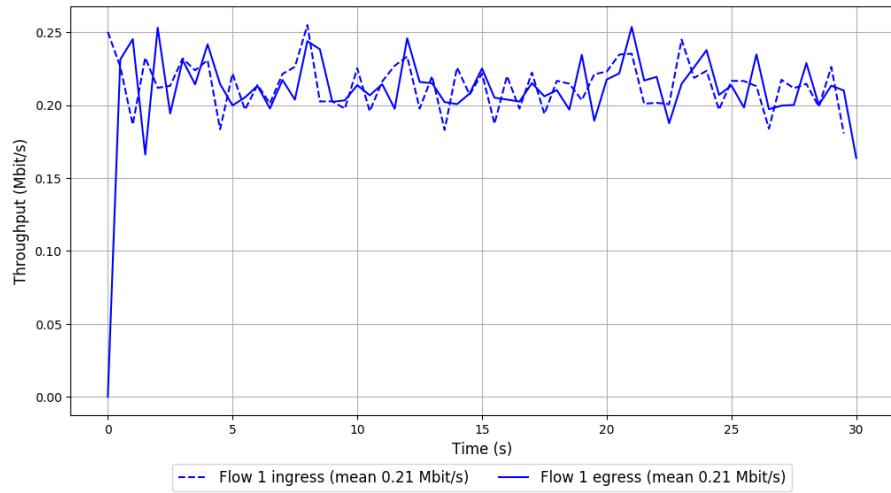


Run 4: Statistics of SCReAM

```
Start at: 2019-01-21 22:52:18
End at: 2019-01-21 22:52:48
Local clock offset: 0.368 ms
Remote clock offset: 1.993 ms

# Below is generated by plot.py at 2019-01-21 23:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.101 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.101 ms
Loss rate: 0.26%
```

Run 4: Report of SCReAM — Data Link

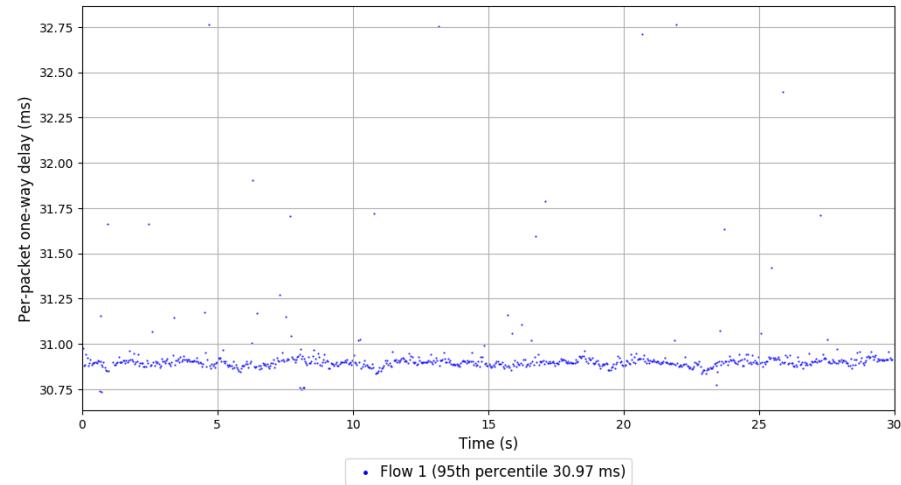
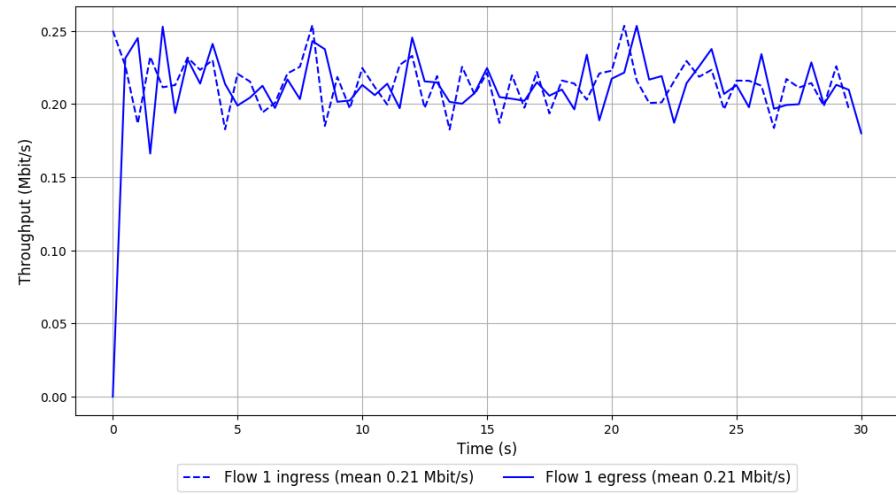


Run 5: Statistics of SCReAM

```
Start at: 2019-01-21 23:20:51
End at: 2019-01-21 23:21:21
Local clock offset: -0.883 ms
Remote clock offset: 1.134 ms

# Below is generated by plot.py at 2019-01-21 23:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.969 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.969 ms
Loss rate: 0.26%
```

Run 5: Report of SCReAM — Data Link

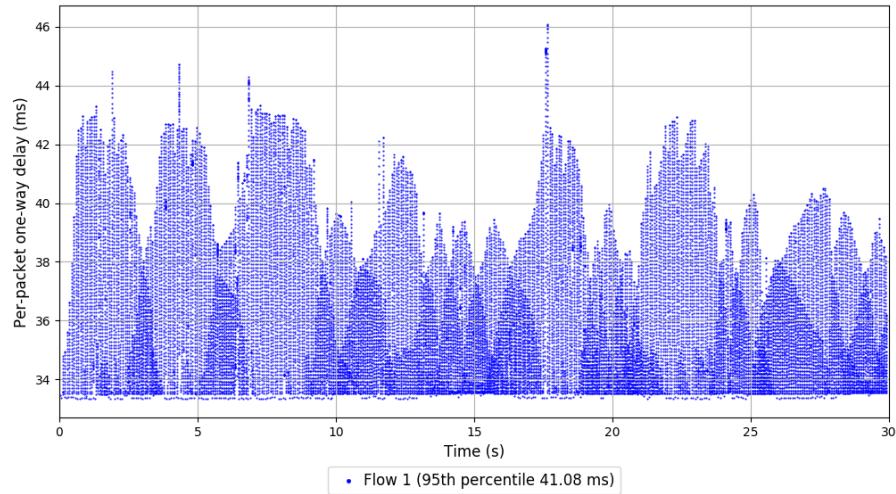
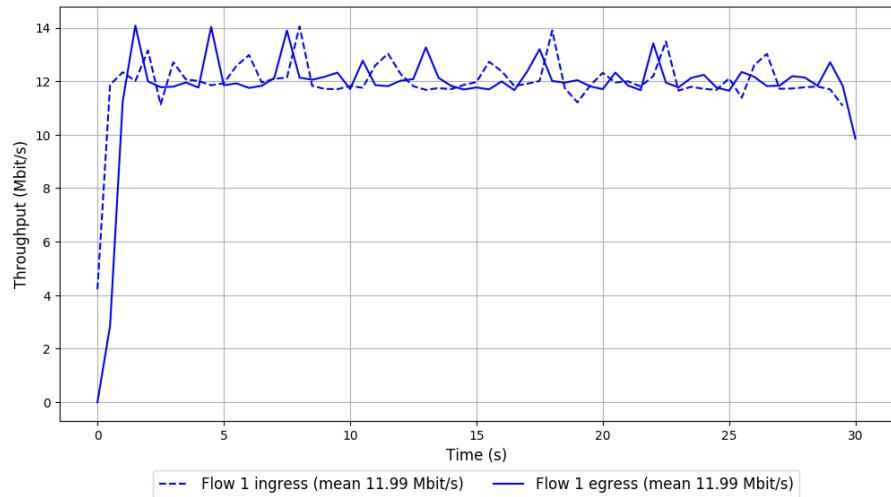


Run 1: Statistics of Sprout

```
Start at: 2019-01-21 21:11:46
End at: 2019-01-21 21:12:16
Local clock offset: 0.983 ms
Remote clock offset: -2.117 ms

# Below is generated by plot.py at 2019-01-21 23:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 41.084 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 41.084 ms
Loss rate: 0.17%
```

Run 1: Report of Sprout — Data Link

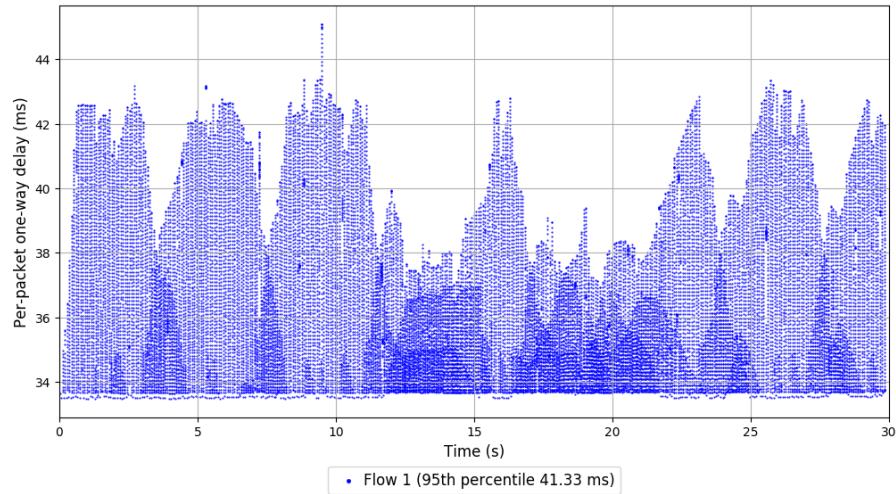
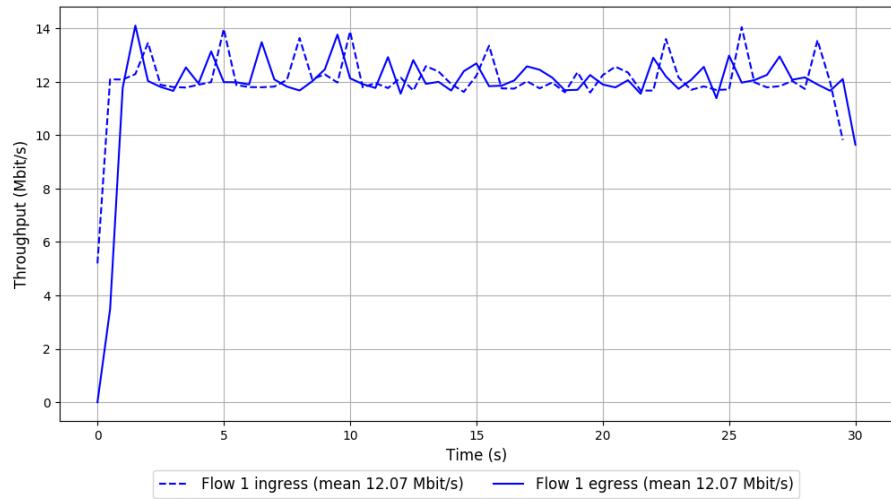


Run 2: Statistics of Sprout

```
Start at: 2019-01-21 21:38:47
End at: 2019-01-21 21:39:17
Local clock offset: -0.059 ms
Remote clock offset: -1.324 ms

# Below is generated by plot.py at 2019-01-21 23:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 41.333 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 41.333 ms
Loss rate: 0.27%
```

Run 2: Report of Sprout — Data Link

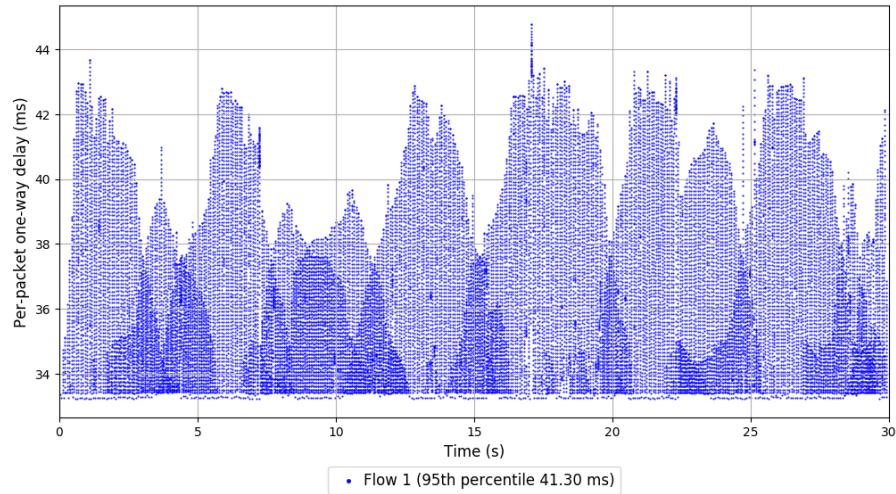
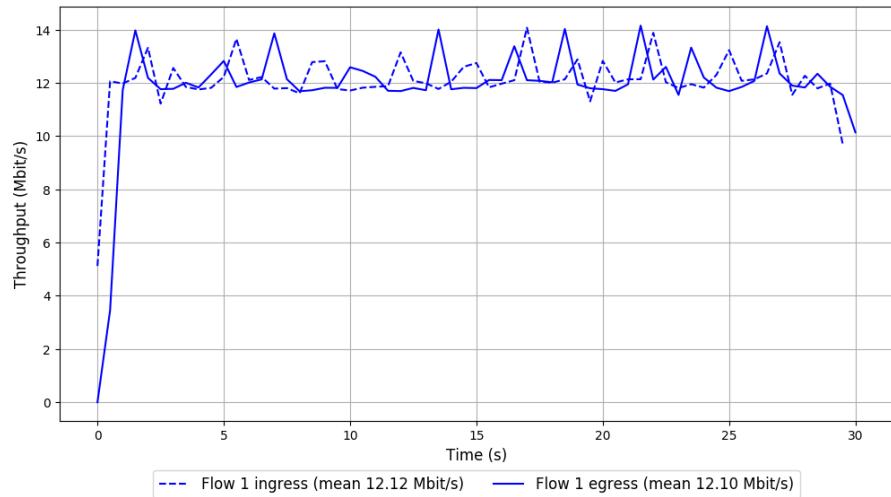


Run 3: Statistics of Sprout

```
Start at: 2019-01-21 22:06:48
End at: 2019-01-21 22:07:19
Local clock offset: 0.416 ms
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2019-01-21 23:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.10 Mbit/s
95th percentile per-packet one-way delay: 41.304 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 12.10 Mbit/s
95th percentile per-packet one-way delay: 41.304 ms
Loss rate: 0.17%
```

Run 3: Report of Sprout — Data Link

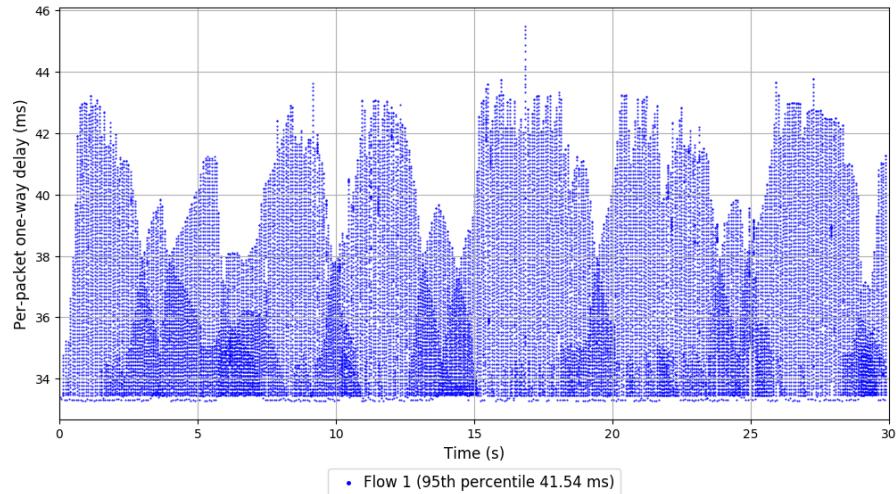
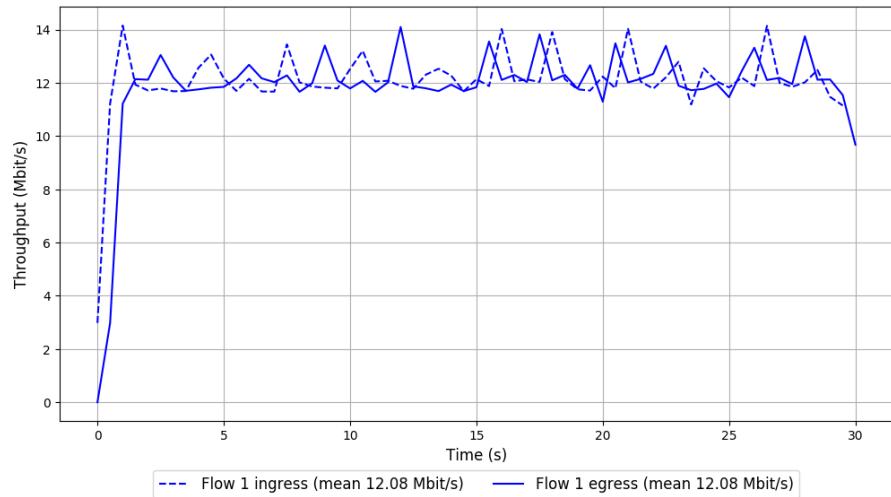


Run 4: Statistics of Sprout

```
Start at: 2019-01-21 22:35:04
End at: 2019-01-21 22:35:34
Local clock offset: 0.817 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-01-21 23:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 41.537 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 41.537 ms
Loss rate: 0.24%
```

Run 4: Report of Sprout — Data Link

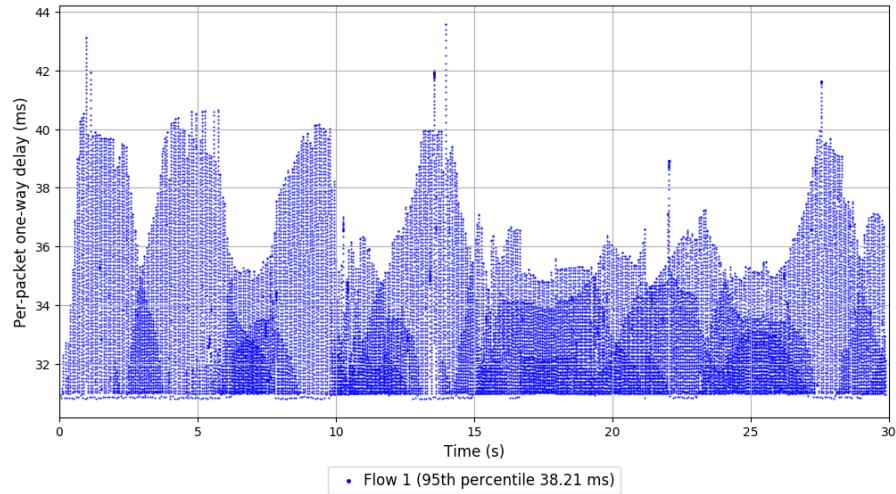
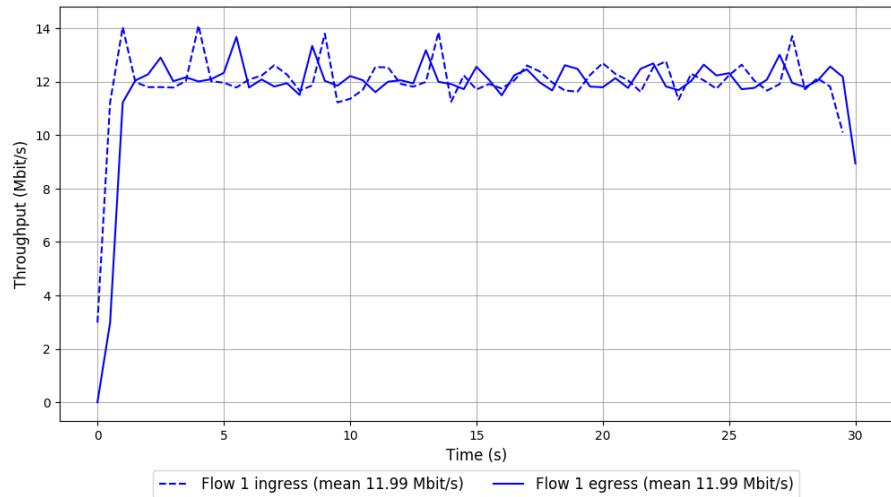


Run 5: Statistics of Sprout

```
Start at: 2019-01-21 23:03:19
End at: 2019-01-21 23:03:49
Local clock offset: -0.041 ms
Remote clock offset: 1.668 ms

# Below is generated by plot.py at 2019-01-21 23:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 38.208 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 38.208 ms
Loss rate: 0.27%
```

Run 5: Report of Sprout — Data Link

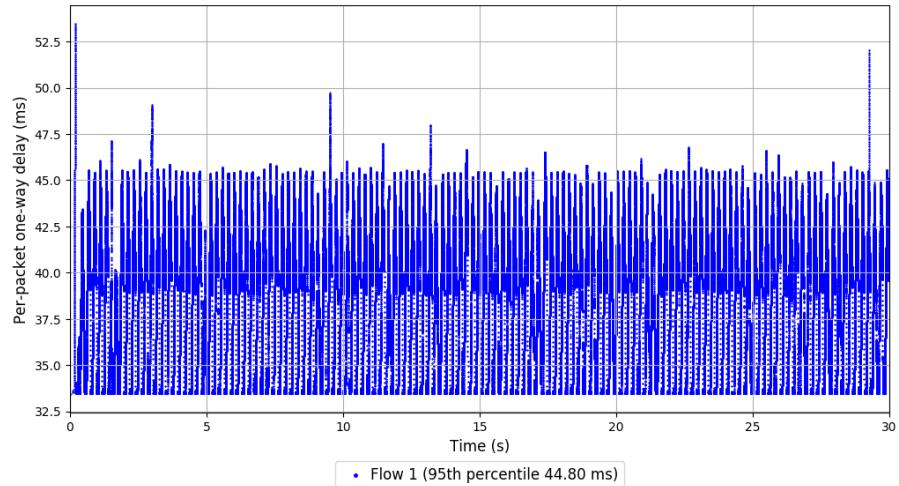
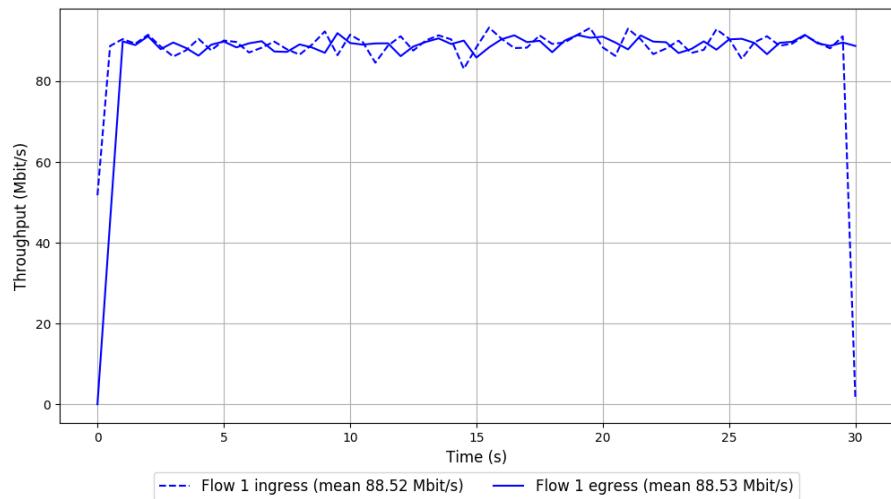


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-21 21:02:37
End at: 2019-01-21 21:03:07
Local clock offset: 0.914 ms
Remote clock offset: -2.359 ms

# Below is generated by plot.py at 2019-01-21 23:35:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.53 Mbit/s
95th percentile per-packet one-way delay: 44.803 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 88.53 Mbit/s
95th percentile per-packet one-way delay: 44.803 ms
Loss rate: 0.19%
```

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

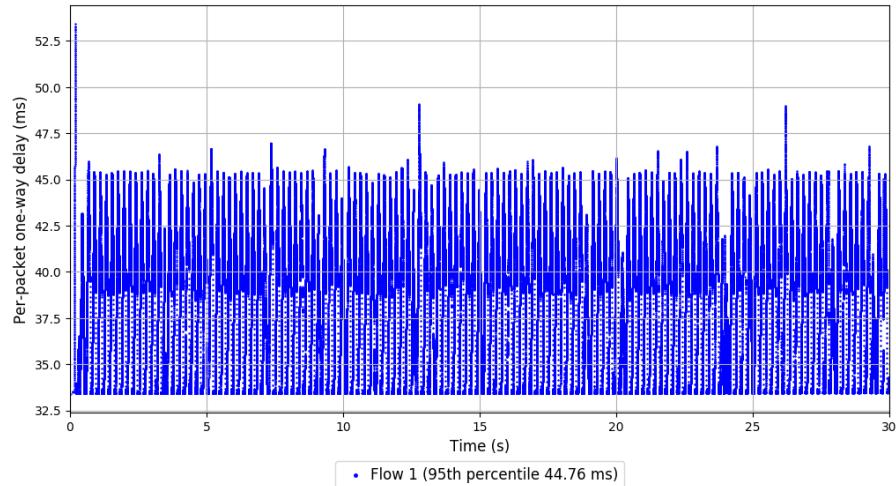
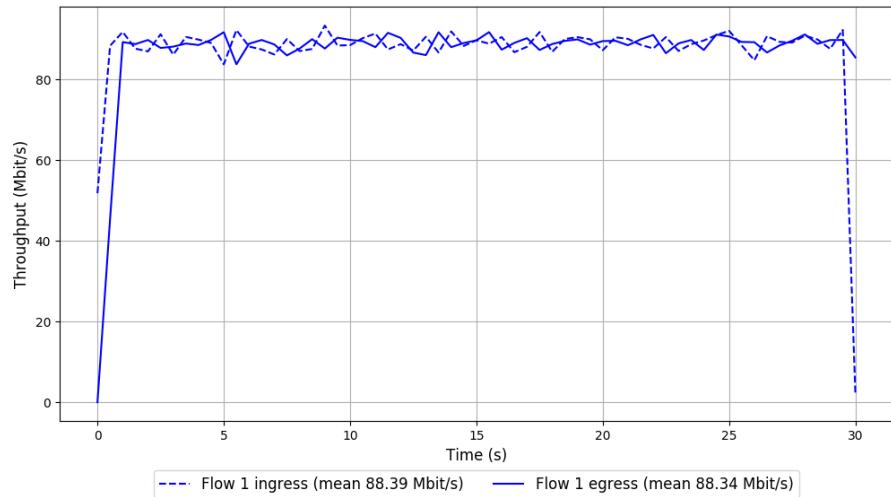


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-21 21:29:34
End at: 2019-01-21 21:30:04
Local clock offset: 0.149 ms
Remote clock offset: -1.447 ms

# Below is generated by plot.py at 2019-01-21 23:35:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.34 Mbit/s
95th percentile per-packet one-way delay: 44.760 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 88.34 Mbit/s
95th percentile per-packet one-way delay: 44.760 ms
Loss rate: 0.27%
```

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

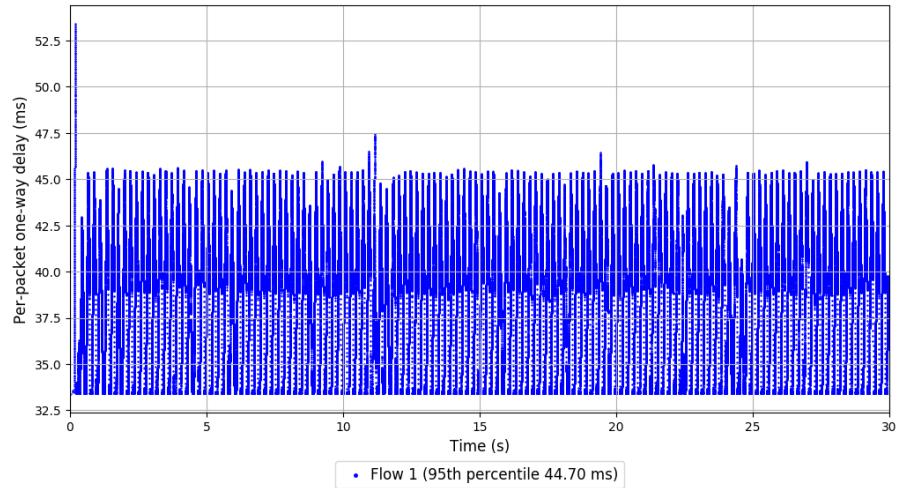
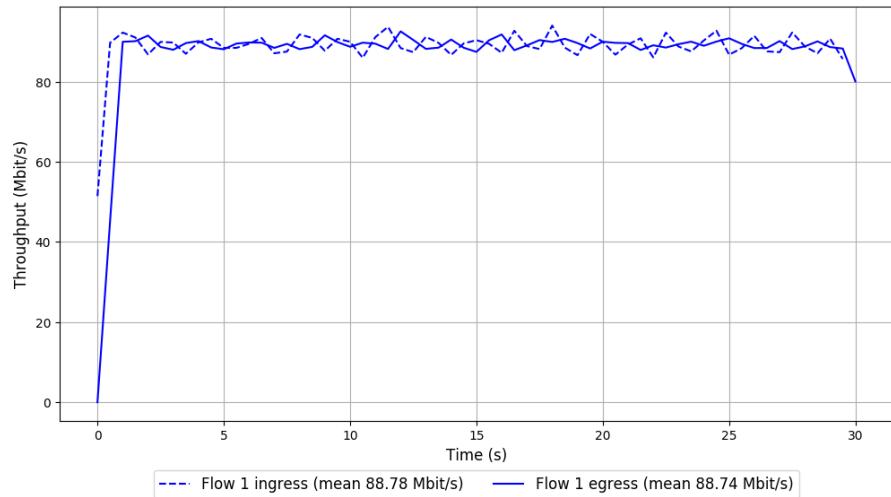


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-21 21:57:29
End at: 2019-01-21 21:57:59
Local clock offset: 0.295 ms
Remote clock offset: -0.437 ms

# Below is generated by plot.py at 2019-01-21 23:35:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 44.700 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 44.700 ms
Loss rate: 0.26%
```

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

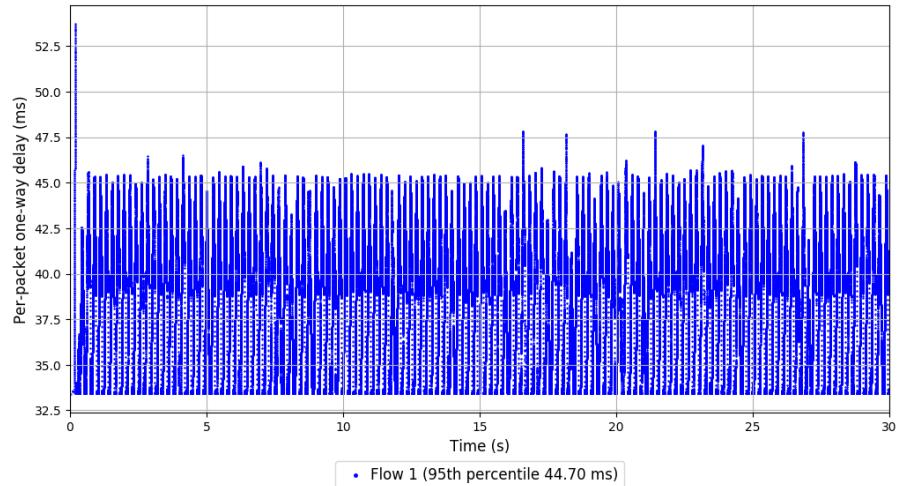
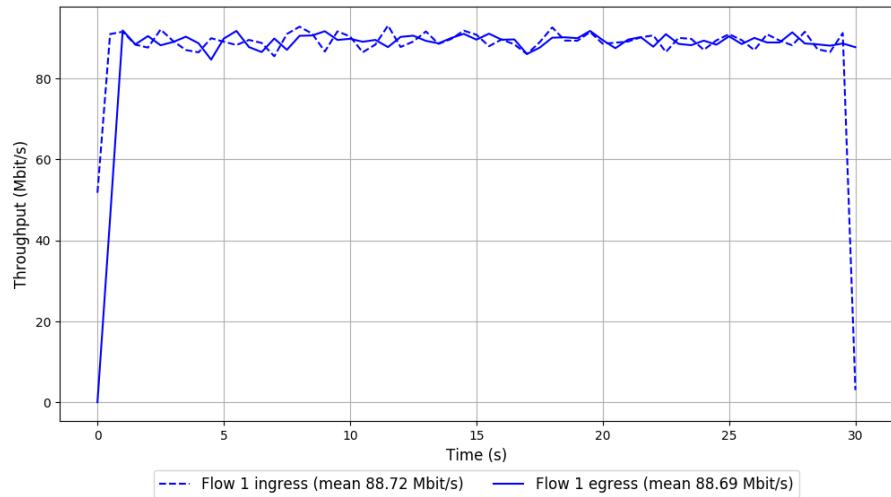


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-21 22:25:29
End at: 2019-01-21 22:25:59
Local clock offset: 0.724 ms
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-01-21 23:35:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.69 Mbit/s
95th percentile per-packet one-way delay: 44.696 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 88.69 Mbit/s
95th percentile per-packet one-way delay: 44.696 ms
Loss rate: 0.24%
```

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

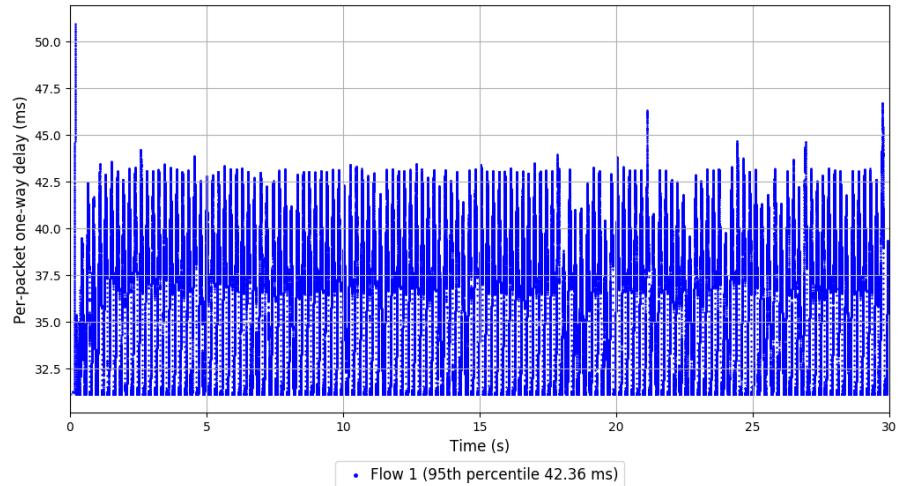
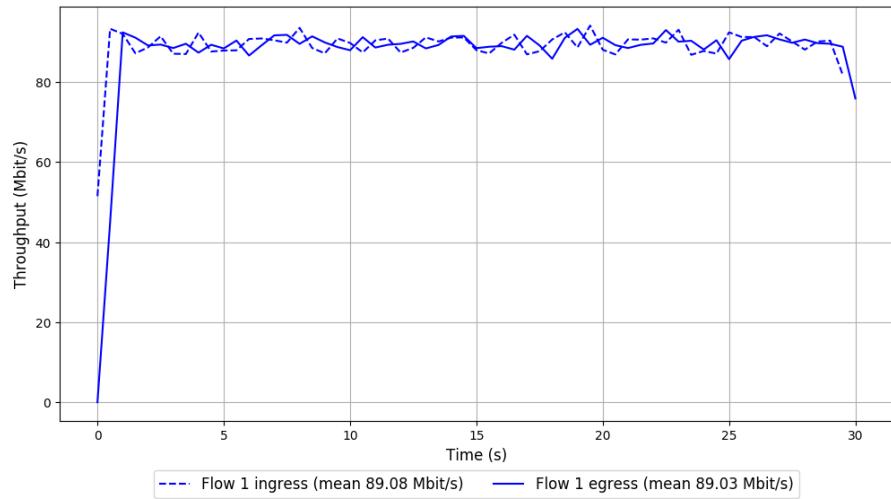


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-21 22:53:24
End at: 2019-01-21 22:53:54
Local clock offset: 0.299 ms
Remote clock offset: 1.813 ms

# Below is generated by plot.py at 2019-01-21 23:35:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.03 Mbit/s
95th percentile per-packet one-way delay: 42.363 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 89.03 Mbit/s
95th percentile per-packet one-way delay: 42.363 ms
Loss rate: 0.27%
```

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

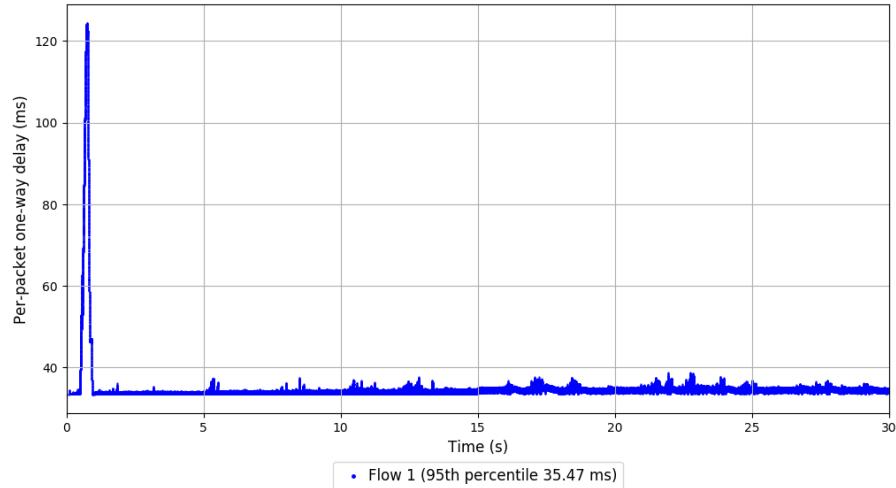
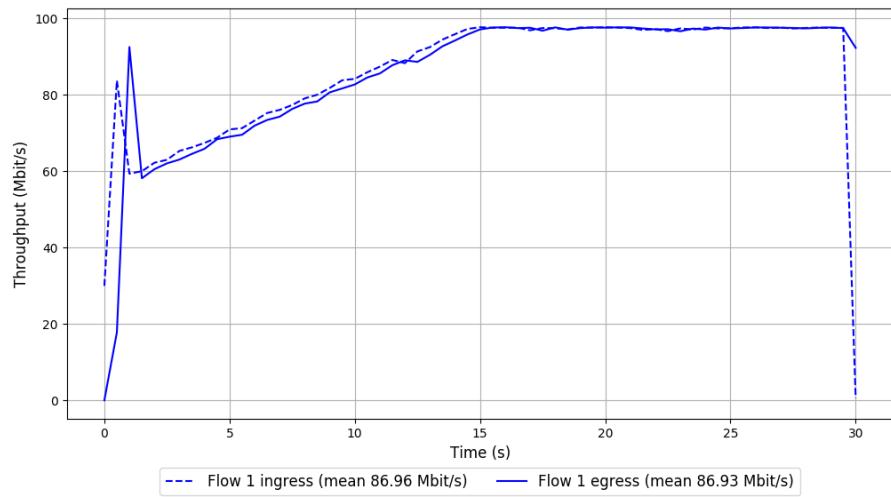


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-21 21:10:31
End at: 2019-01-21 21:11:01
Local clock offset: 0.971 ms
Remote clock offset: -2.164 ms

# Below is generated by plot.py at 2019-01-21 23:35:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.93 Mbit/s
95th percentile per-packet one-way delay: 35.469 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 86.93 Mbit/s
95th percentile per-packet one-way delay: 35.469 ms
Loss rate: 0.24%
```

Run 1: Report of TCP Vegas — Data Link

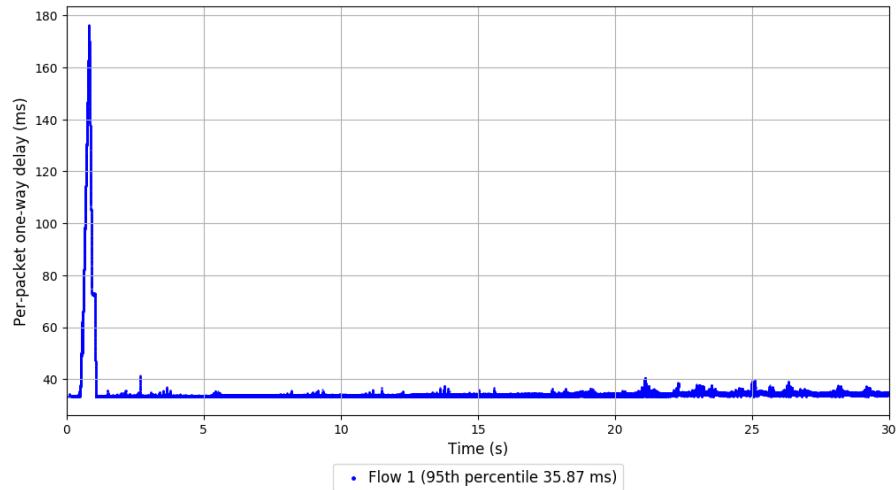
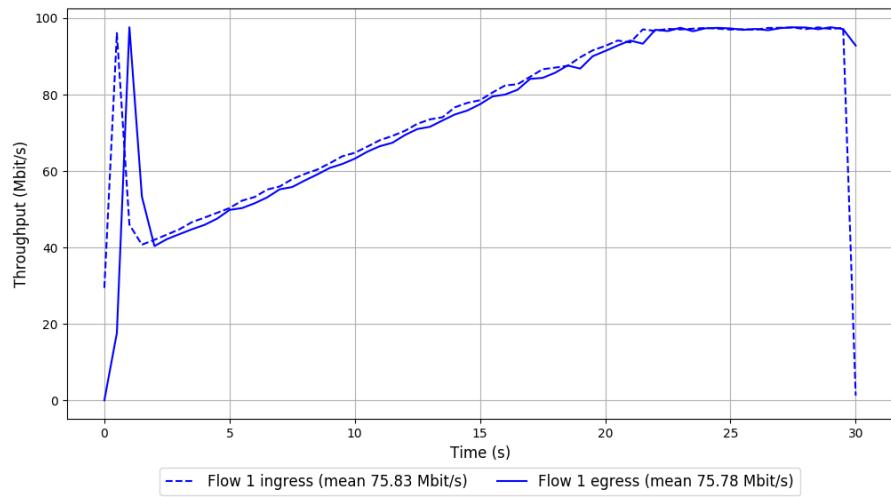


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-21 21:37:30
End at: 2019-01-21 21:38:00
Local clock offset: -0.036 ms
Remote clock offset: -1.182 ms

# Below is generated by plot.py at 2019-01-21 23:35:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.78 Mbit/s
95th percentile per-packet one-way delay: 35.868 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 75.78 Mbit/s
95th percentile per-packet one-way delay: 35.868 ms
Loss rate: 0.28%
```

Run 2: Report of TCP Vegas — Data Link

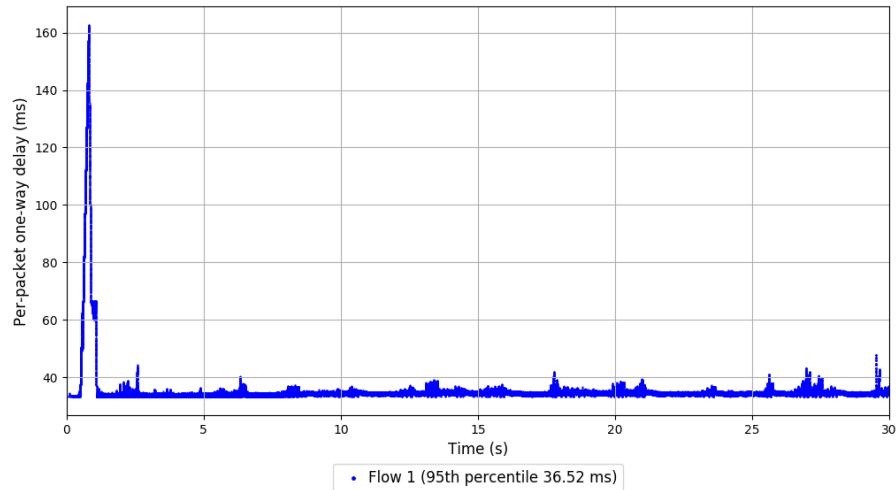
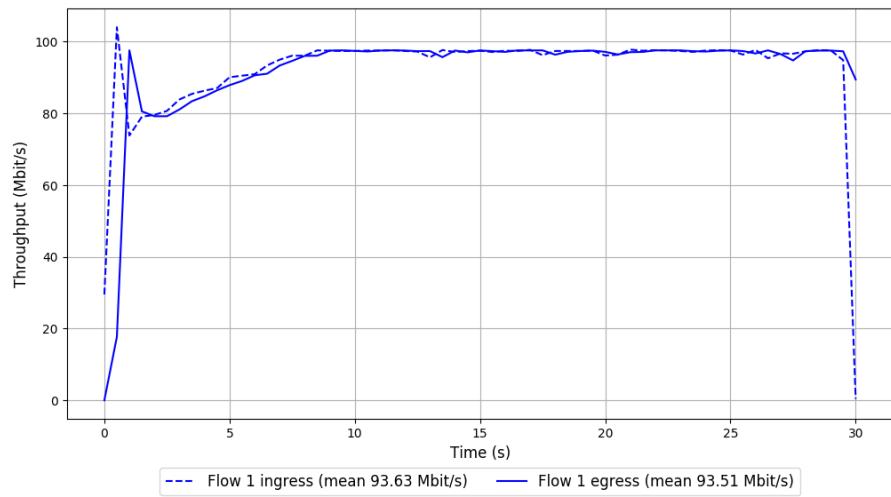


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-21 22:05:26
End at: 2019-01-21 22:05:56
Local clock offset: 0.408 ms
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2019-01-21 23:35:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 36.525 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 36.525 ms
Loss rate: 0.34%
```

Run 3: Report of TCP Vegas — Data Link

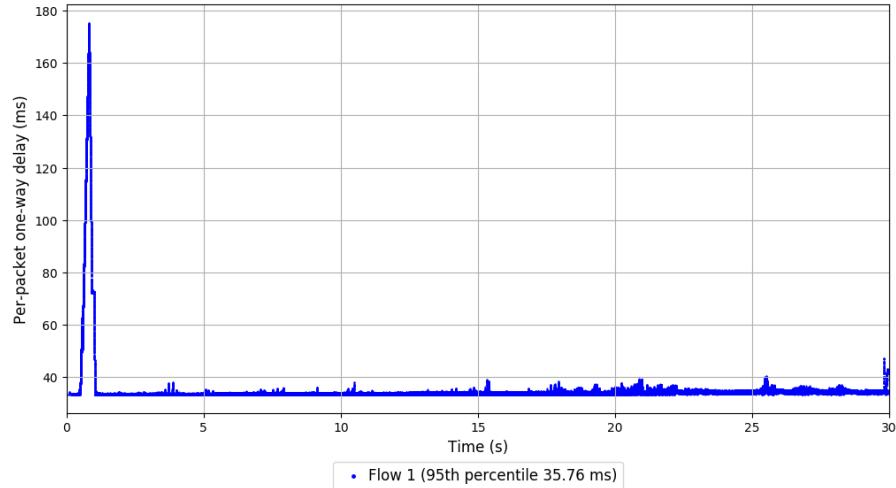
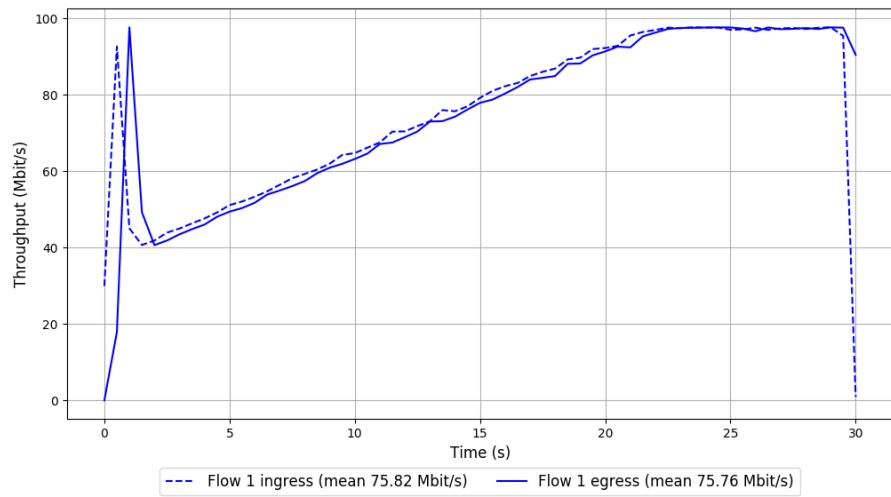


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-21 22:33:37
End at: 2019-01-21 22:34:07
Local clock offset: 0.799 ms
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2019-01-21 23:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.76 Mbit/s
95th percentile per-packet one-way delay: 35.764 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 75.76 Mbit/s
95th percentile per-packet one-way delay: 35.764 ms
Loss rate: 0.28%
```

Run 4: Report of TCP Vegas — Data Link

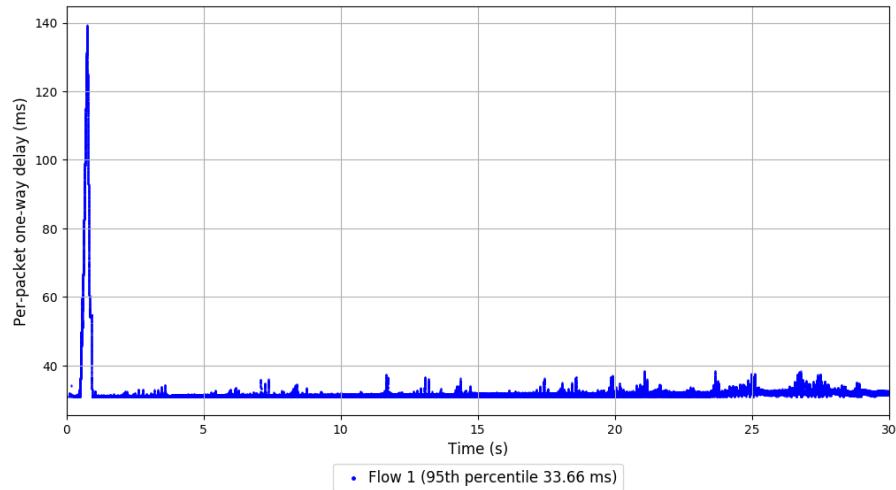
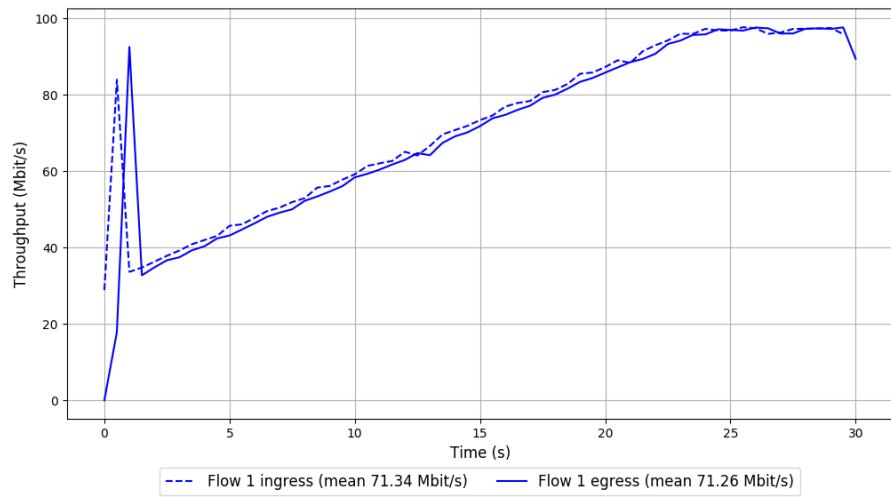


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-21 23:02:00
End at: 2019-01-21 23:02:30
Local clock offset: 0.0 ms
Remote clock offset: 1.665 ms

# Below is generated by plot.py at 2019-01-21 23:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.26 Mbit/s
95th percentile per-packet one-way delay: 33.665 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 71.26 Mbit/s
95th percentile per-packet one-way delay: 33.665 ms
Loss rate: 0.32%
```

Run 5: Report of TCP Vegas — Data Link

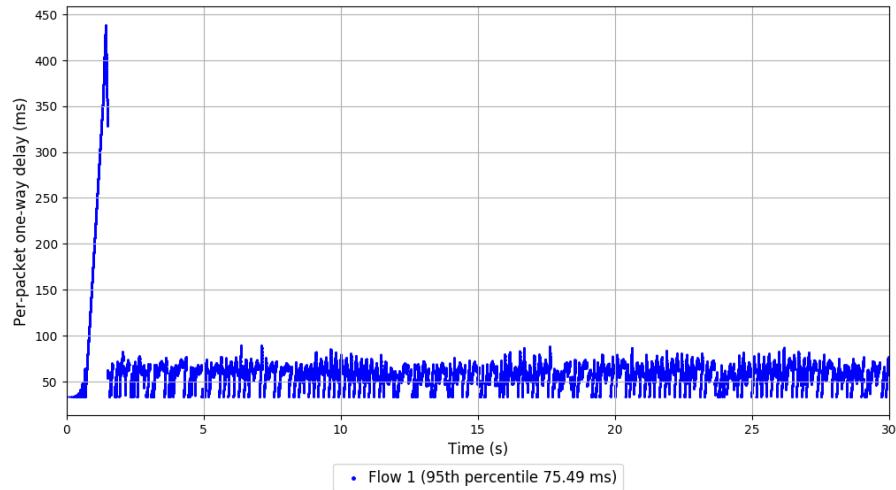
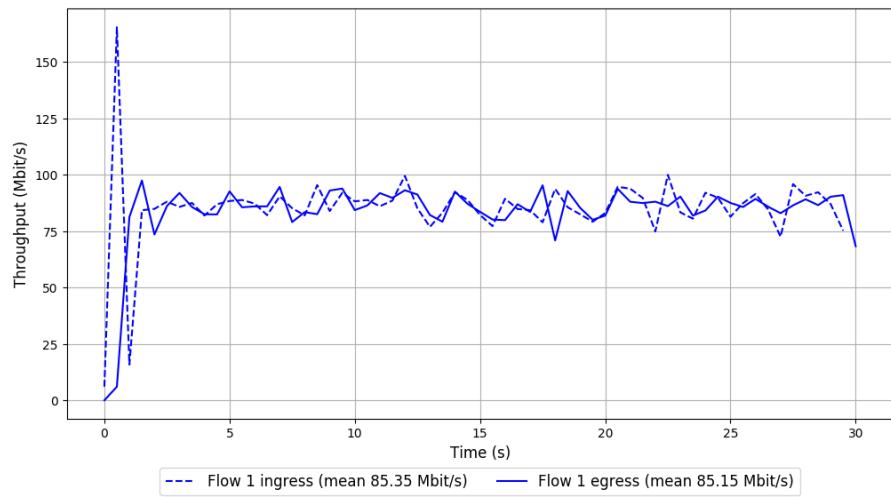


Run 1: Statistics of Verus

```
Start at: 2019-01-21 21:20:40
End at: 2019-01-21 21:21:10
Local clock offset: 0.581 ms
Remote clock offset: -1.772 ms

# Below is generated by plot.py at 2019-01-21 23:36:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.15 Mbit/s
95th percentile per-packet one-way delay: 75.490 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 85.15 Mbit/s
95th percentile per-packet one-way delay: 75.490 ms
Loss rate: 0.45%
```

Run 1: Report of Verus — Data Link

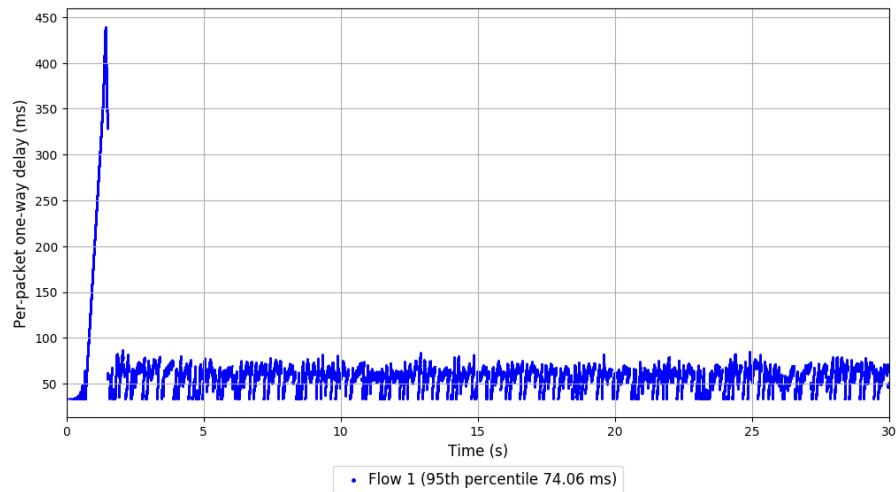
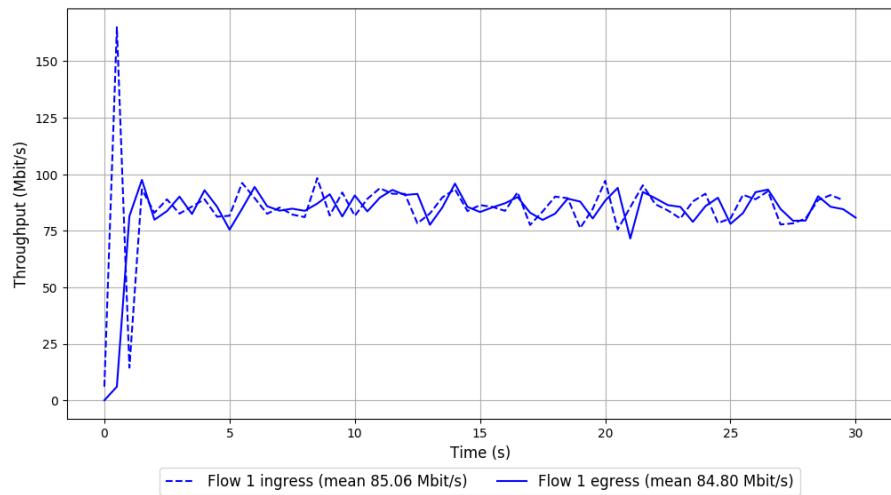


Run 2: Statistics of Verus

```
Start at: 2019-01-21 21:47:59
End at: 2019-01-21 21:48:29
Local clock offset: -0.038 ms
Remote clock offset: -1.053 ms

# Below is generated by plot.py at 2019-01-21 23:36:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.80 Mbit/s
95th percentile per-packet one-way delay: 74.058 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 84.80 Mbit/s
95th percentile per-packet one-way delay: 74.058 ms
Loss rate: 0.51%
```

Run 2: Report of Verus — Data Link

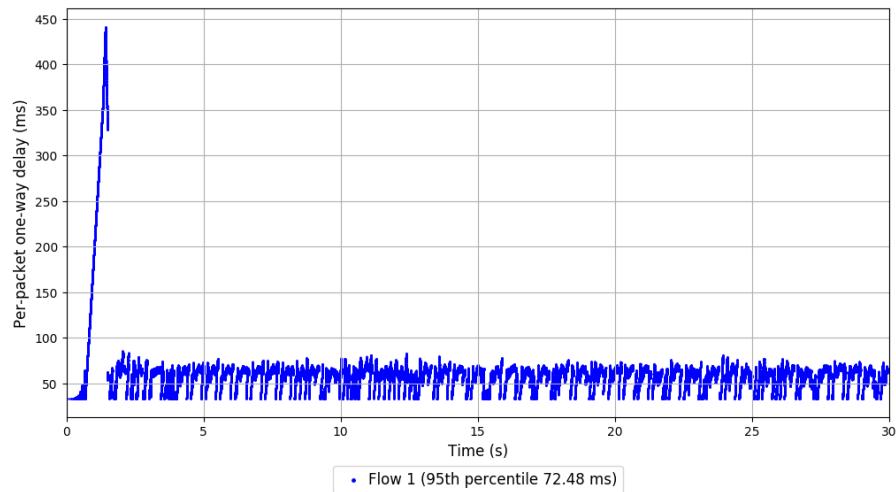
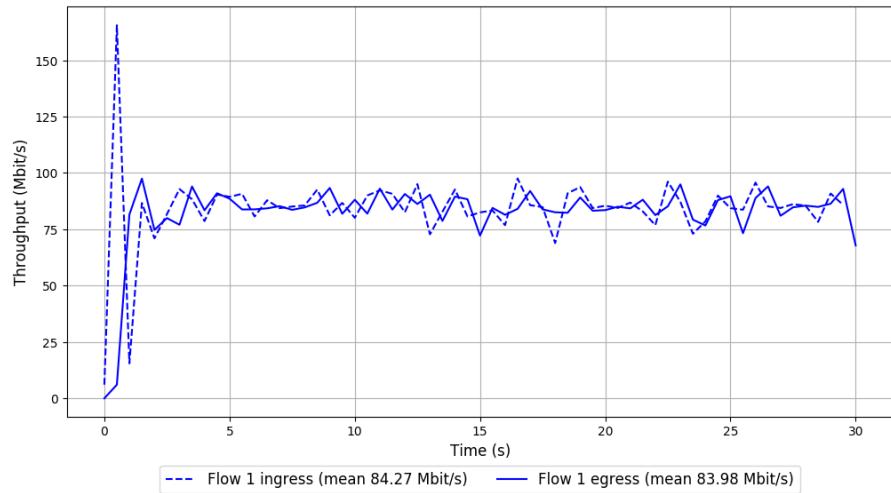


Run 3: Statistics of Verus

```
Start at: 2019-01-21 22:16:01
End at: 2019-01-21 22:16:31
Local clock offset: 0.454 ms
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2019-01-21 23:36:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.98 Mbit/s
95th percentile per-packet one-way delay: 72.477 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 83.98 Mbit/s
95th percentile per-packet one-way delay: 72.477 ms
Loss rate: 0.56%
```

Run 3: Report of Verus — Data Link

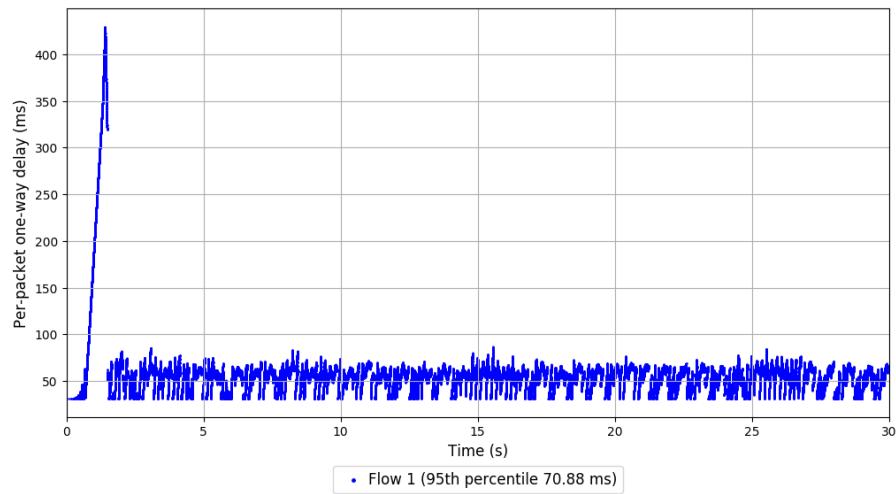
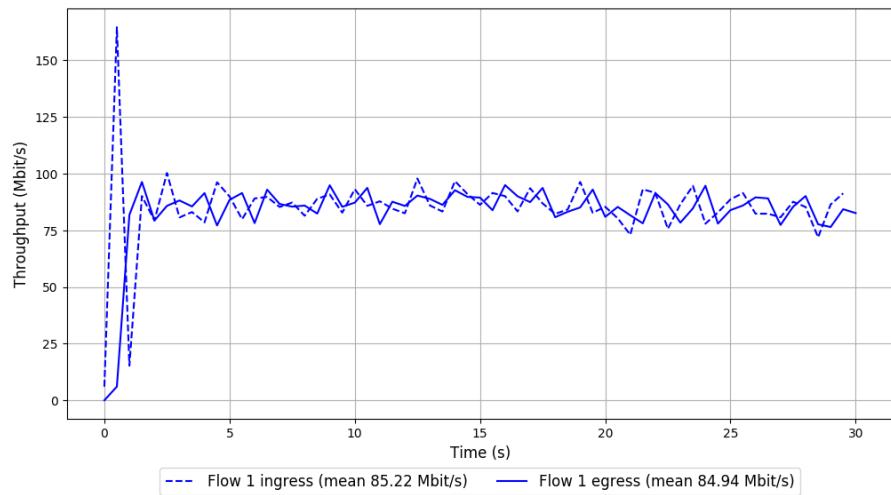


Run 4: Statistics of Verus

```
Start at: 2019-01-21 22:44:01
End at: 2019-01-21 22:44:31
Local clock offset: 0.882 ms
Remote clock offset: 2.241 ms

# Below is generated by plot.py at 2019-01-21 23:36:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.94 Mbit/s
95th percentile per-packet one-way delay: 70.878 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 84.94 Mbit/s
95th percentile per-packet one-way delay: 70.878 ms
Loss rate: 0.53%
```

Run 4: Report of Verus — Data Link

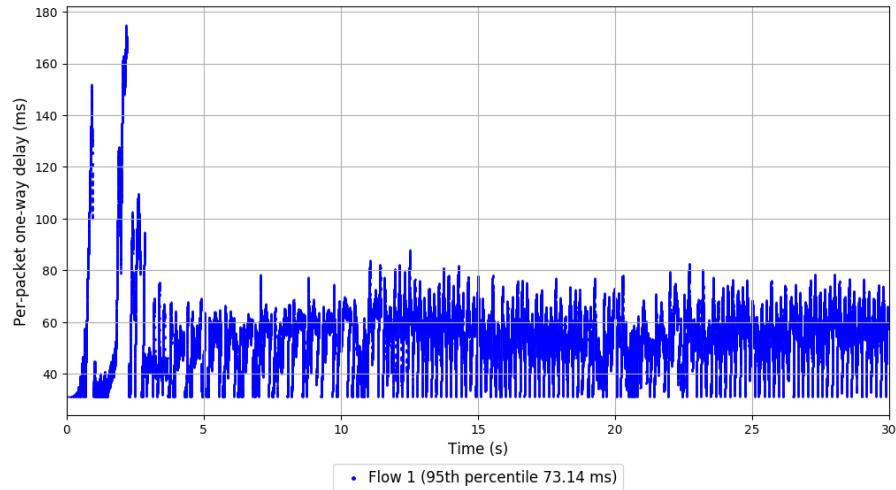
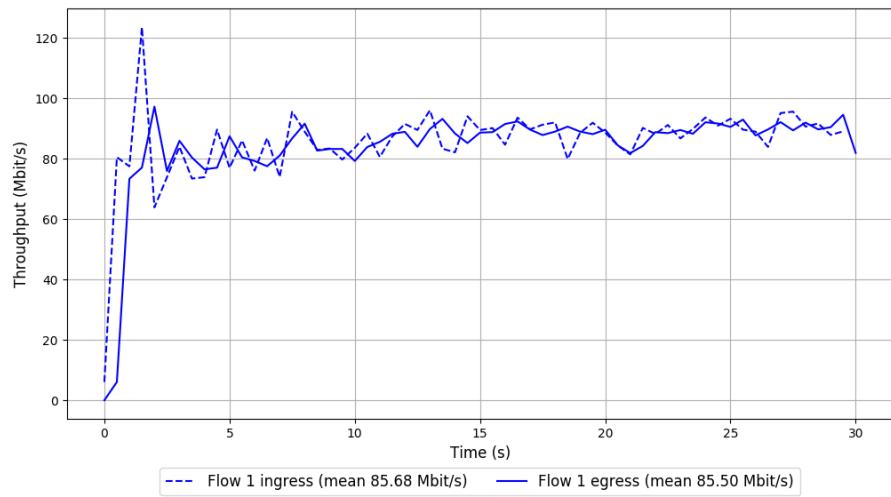


Run 5: Statistics of Verus

```
Start at: 2019-01-21 23:12:35
End at: 2019-01-21 23:13:05
Local clock offset: -0.216 ms
Remote clock offset: 1.229 ms

# Below is generated by plot.py at 2019-01-21 23:36:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.50 Mbit/s
95th percentile per-packet one-way delay: 73.139 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 85.50 Mbit/s
95th percentile per-packet one-way delay: 73.139 ms
Loss rate: 0.41%
```

Run 5: Report of Verus — Data Link

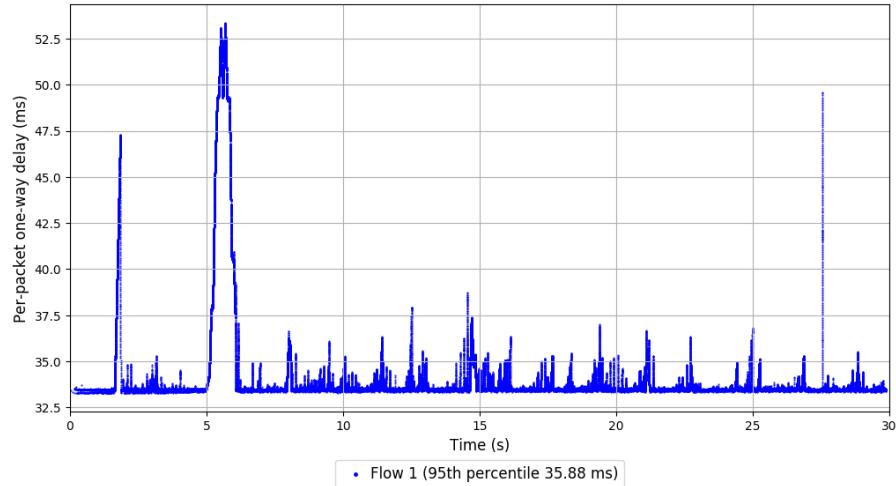
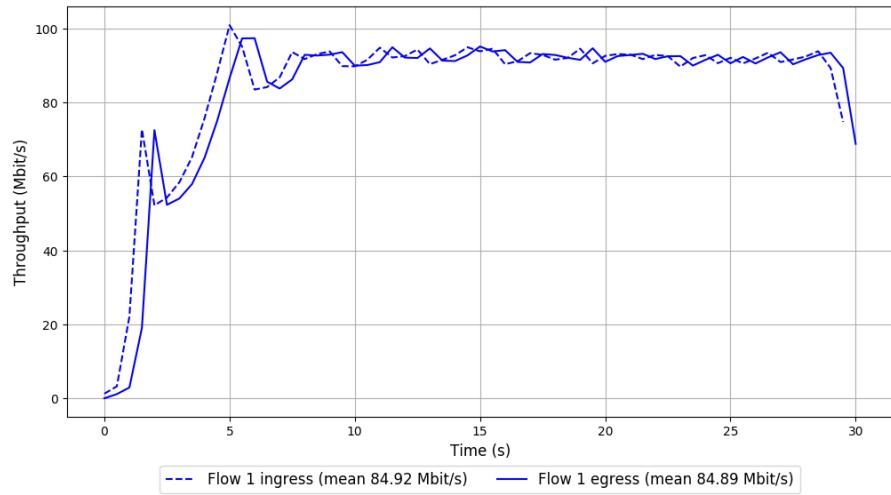


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-21 21:04:11
End at: 2019-01-21 21:04:41
Local clock offset: 0.924 ms
Remote clock offset: -2.349 ms

# Below is generated by plot.py at 2019-01-21 23:36:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.89 Mbit/s
95th percentile per-packet one-way delay: 35.884 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 84.89 Mbit/s
95th percentile per-packet one-way delay: 35.884 ms
Loss rate: 0.25%
```

Run 1: Report of PCC-Vivace — Data Link

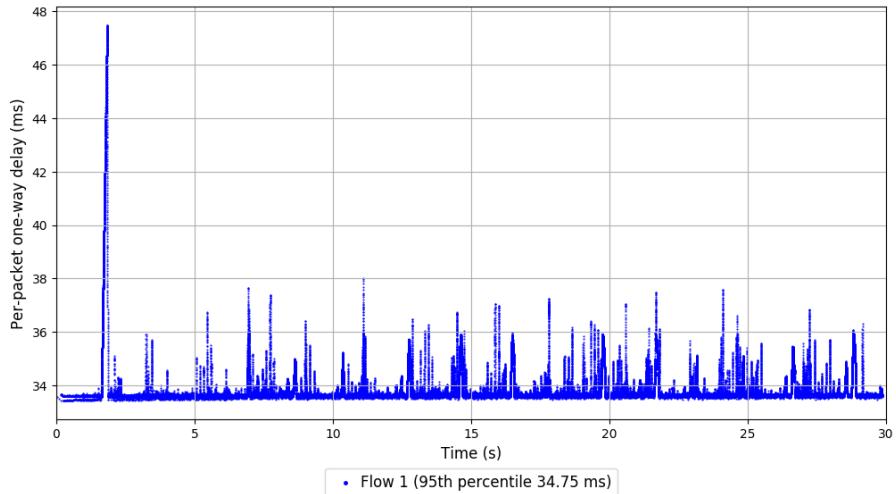
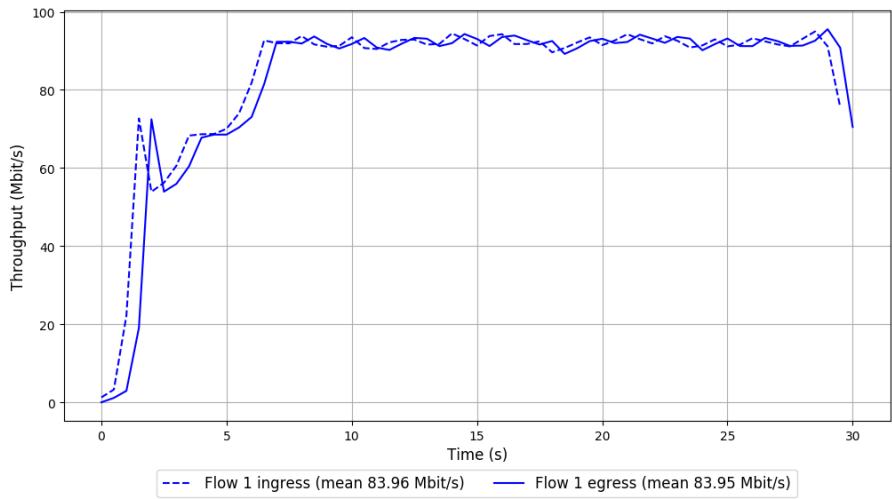


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-21 21:30:59
End at: 2019-01-21 21:31:29
Local clock offset: 0.113 ms
Remote clock offset: -1.585 ms

# Below is generated by plot.py at 2019-01-21 23:36:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.95 Mbit/s
95th percentile per-packet one-way delay: 34.752 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 83.95 Mbit/s
95th percentile per-packet one-way delay: 34.752 ms
Loss rate: 0.23%
```

Run 2: Report of PCC-Vivace — Data Link

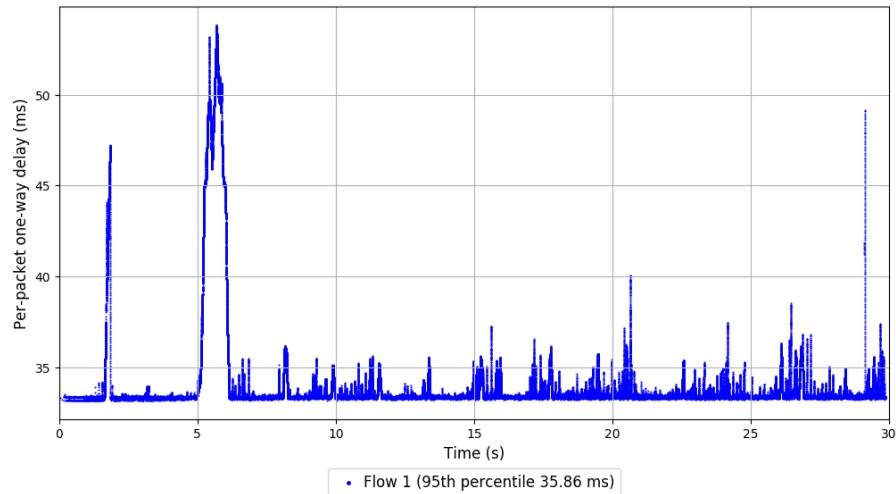
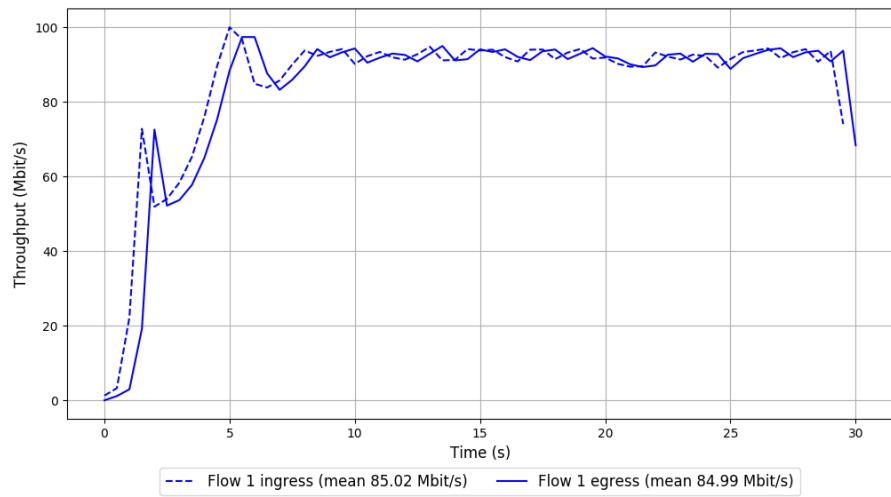


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-21 21:59:02
End at: 2019-01-21 21:59:32
Local clock offset: 0.323 ms
Remote clock offset: -0.333 ms

# Below is generated by plot.py at 2019-01-21 23:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.99 Mbit/s
95th percentile per-packet one-way delay: 35.861 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 84.99 Mbit/s
95th percentile per-packet one-way delay: 35.861 ms
Loss rate: 0.24%
```

Run 3: Report of PCC-Vivace — Data Link

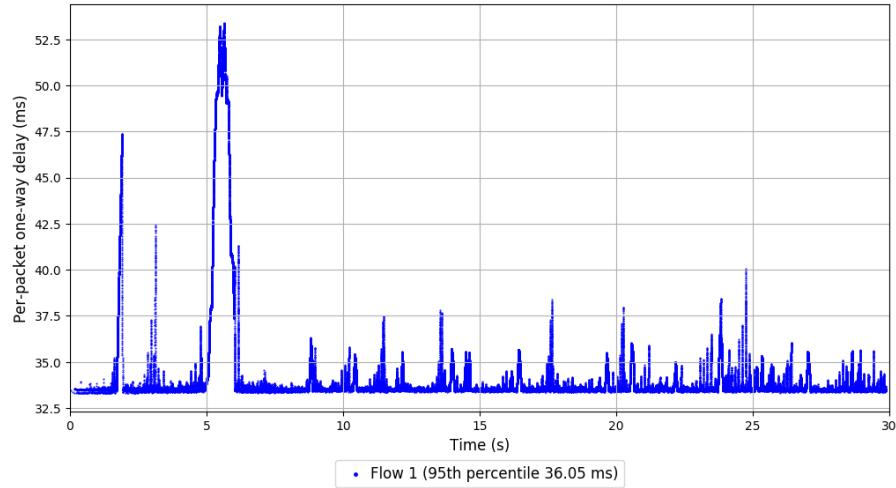
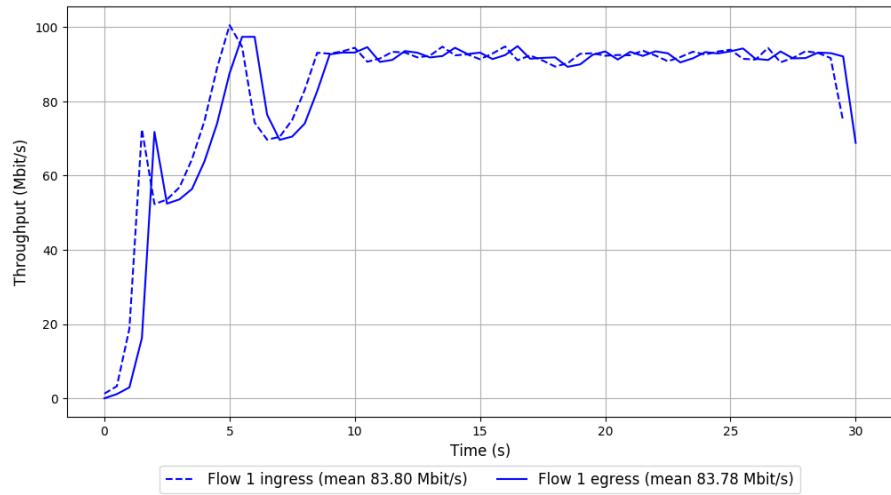


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-21 22:26:57
End at: 2019-01-21 22:27:27
Local clock offset: 0.743 ms
Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2019-01-21 23:36:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.78 Mbit/s
95th percentile per-packet one-way delay: 36.050 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 83.78 Mbit/s
95th percentile per-packet one-way delay: 36.050 ms
Loss rate: 0.24%
```

Run 4: Report of PCC-Vivace — Data Link

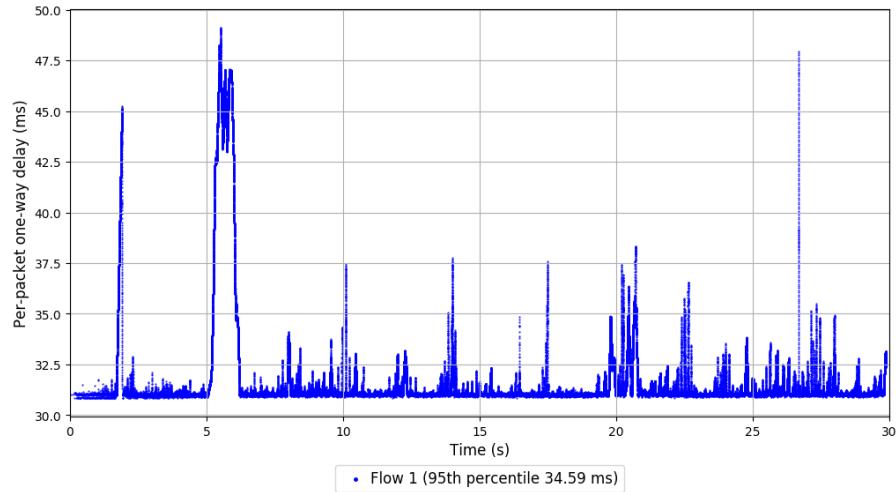
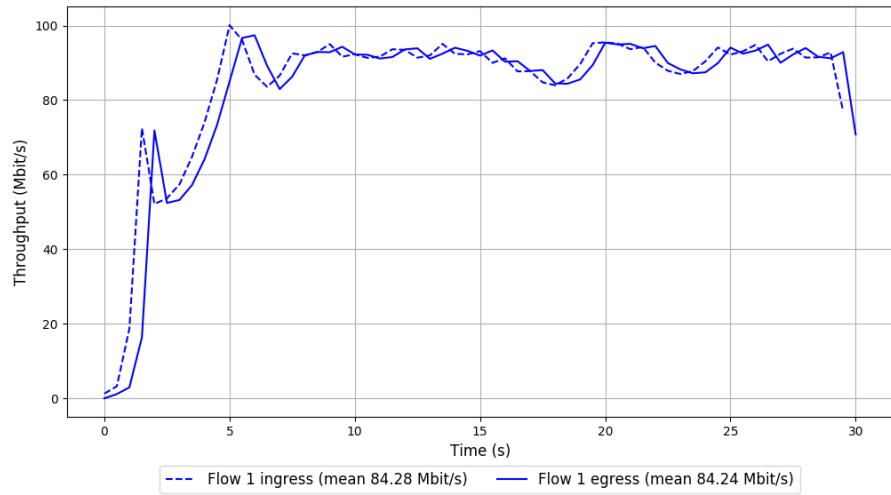


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-21 22:55:00
End at: 2019-01-21 22:55:30
Local clock offset: 0.225 ms
Remote clock offset: 1.875 ms

# Below is generated by plot.py at 2019-01-21 23:36:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.24 Mbit/s
95th percentile per-packet one-way delay: 34.590 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 84.24 Mbit/s
95th percentile per-packet one-way delay: 34.590 ms
Loss rate: 0.26%
```

Run 5: Report of PCC-Vivace — Data Link

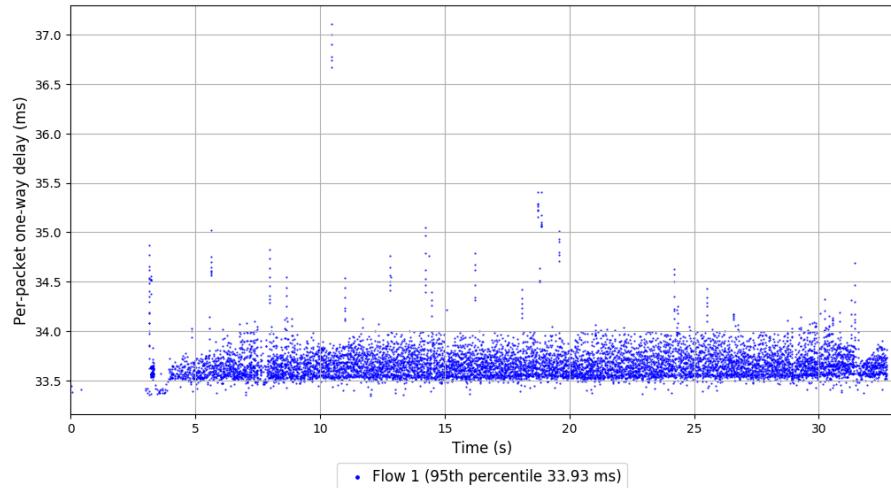
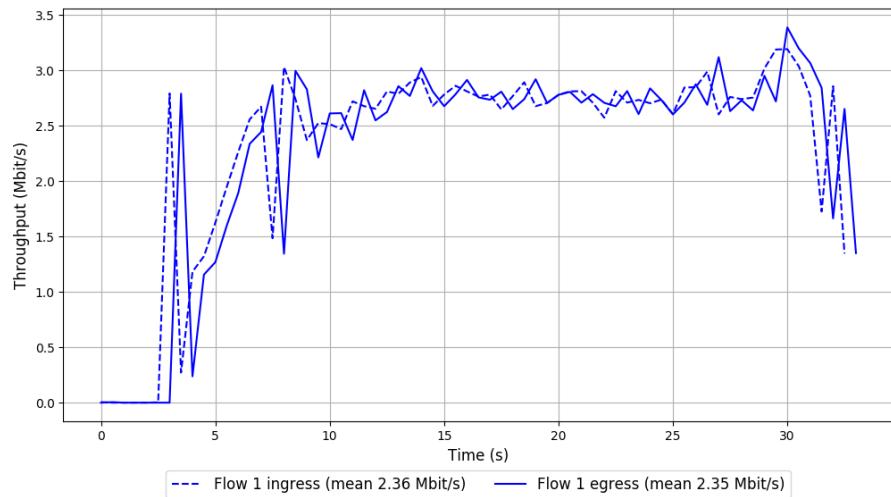


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-21 21:12:52
End at: 2019-01-21 21:13:22
Local clock offset: 0.987 ms
Remote clock offset: -2.092 ms

# Below is generated by plot.py at 2019-01-21 23:36:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 33.928 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 33.928 ms
Loss rate: 0.19%
```

Run 1: Report of WebRTC media — Data Link

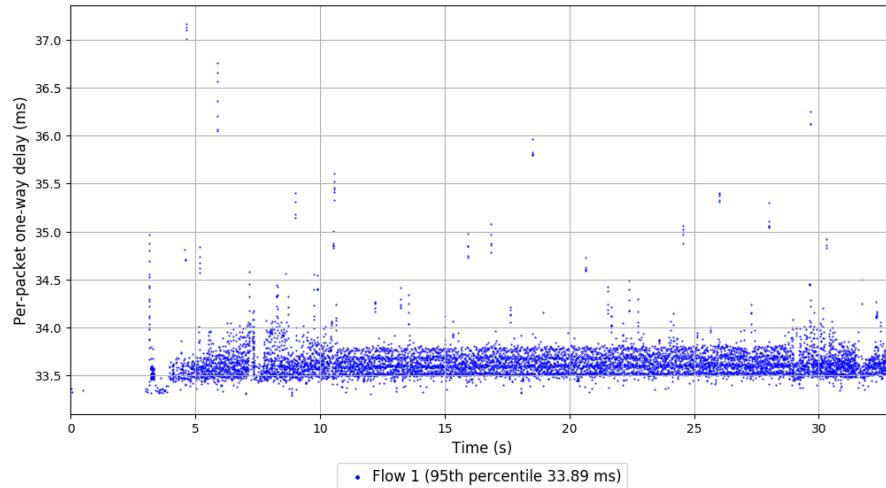
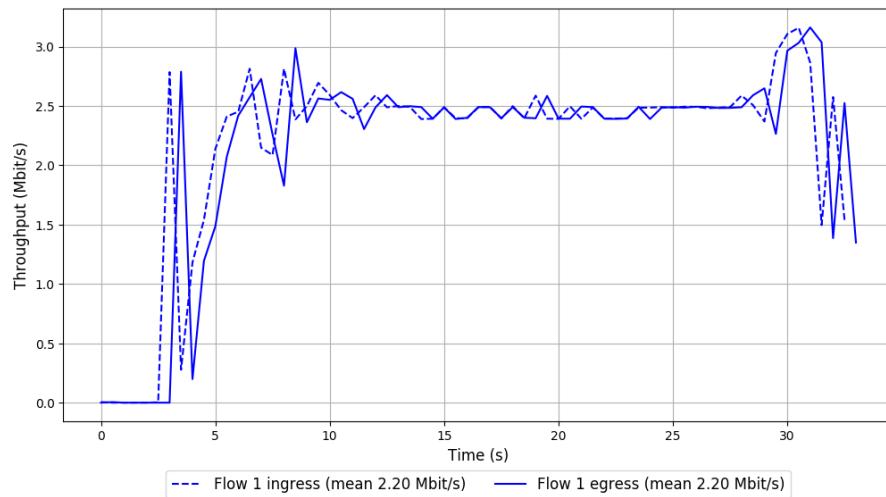


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-21 21:39:54
End at: 2019-01-21 21:40:24
Local clock offset: -0.063 ms
Remote clock offset: -1.084 ms

# Below is generated by plot.py at 2019-01-21 23:36:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 33.891 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 33.891 ms
Loss rate: 0.27%
```

Run 2: Report of WebRTC media — Data Link

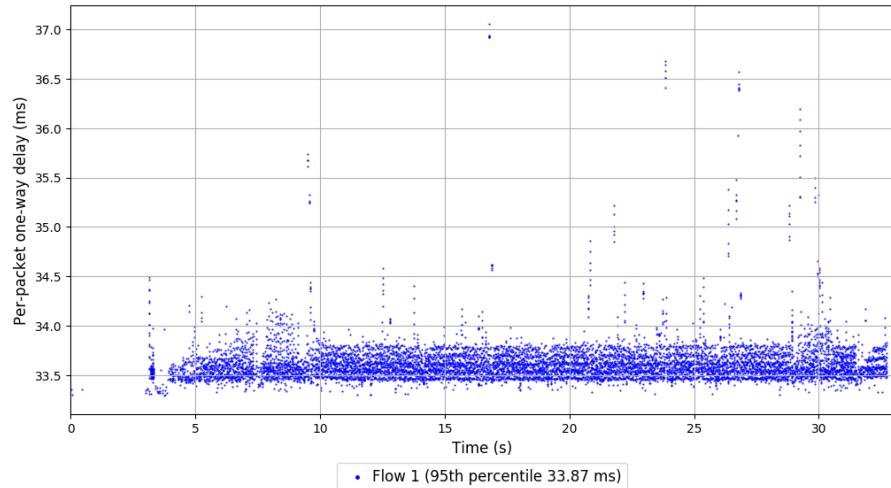
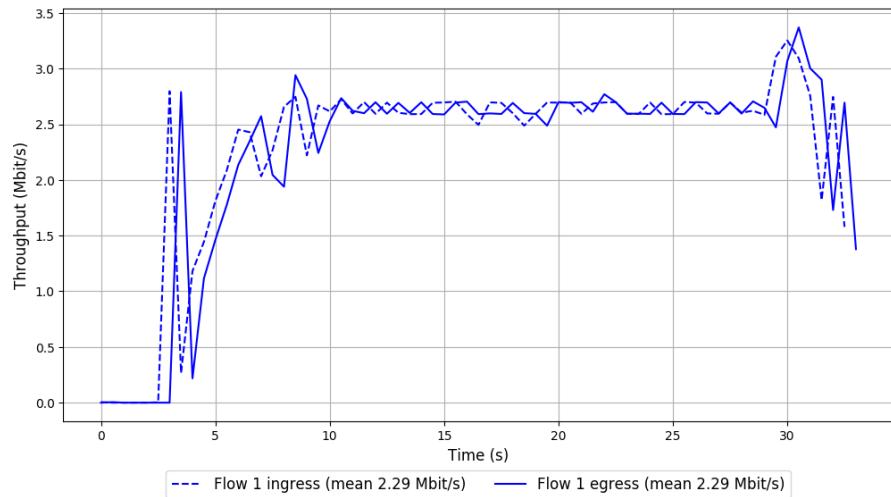


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-21 22:07:56
End at: 2019-01-21 22:08:26
Local clock offset: 0.423 ms
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2019-01-21 23:36:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 33.872 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 33.872 ms
Loss rate: 0.26%
```

Run 3: Report of WebRTC media — Data Link

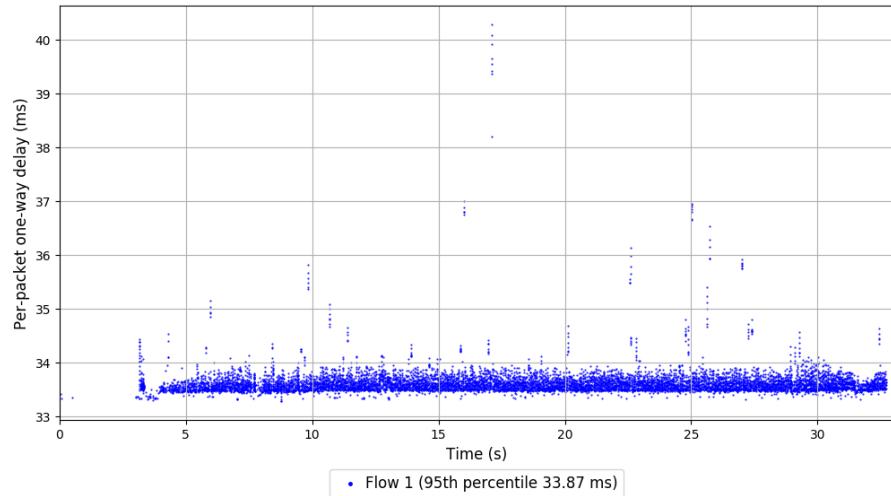
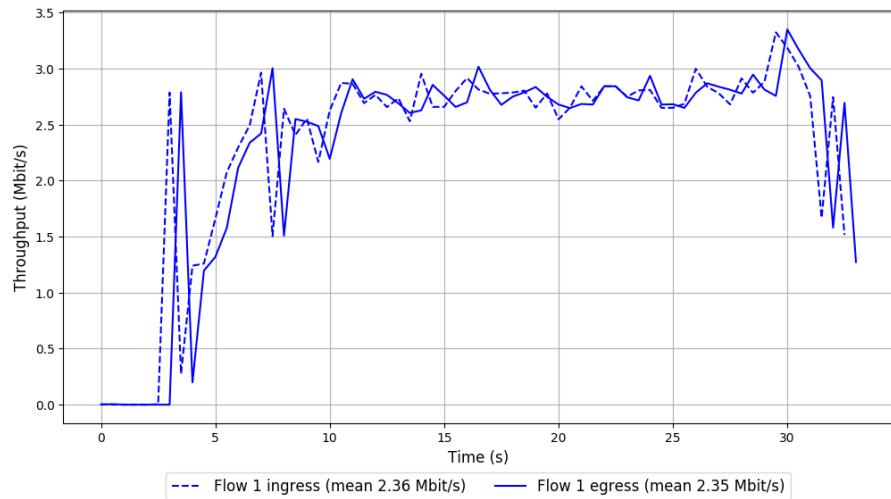


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-21 22:36:12
End at: 2019-01-21 22:36:42
Local clock offset: 0.823 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-01-21 23:36:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 33.865 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 33.865 ms
Loss rate: 0.28%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-21 23:04:28
End at: 2019-01-21 23:04:58
Local clock offset: -0.071 ms
Remote clock offset: 1.604 ms

# Below is generated by plot.py at 2019-01-21 23:36:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 31.401 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 31.401 ms
Loss rate: 0.23%
```

Run 5: Report of WebRTC media — Data Link

