

Pantheon Report

Generated at 2019-02-12 00:49:57 (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.

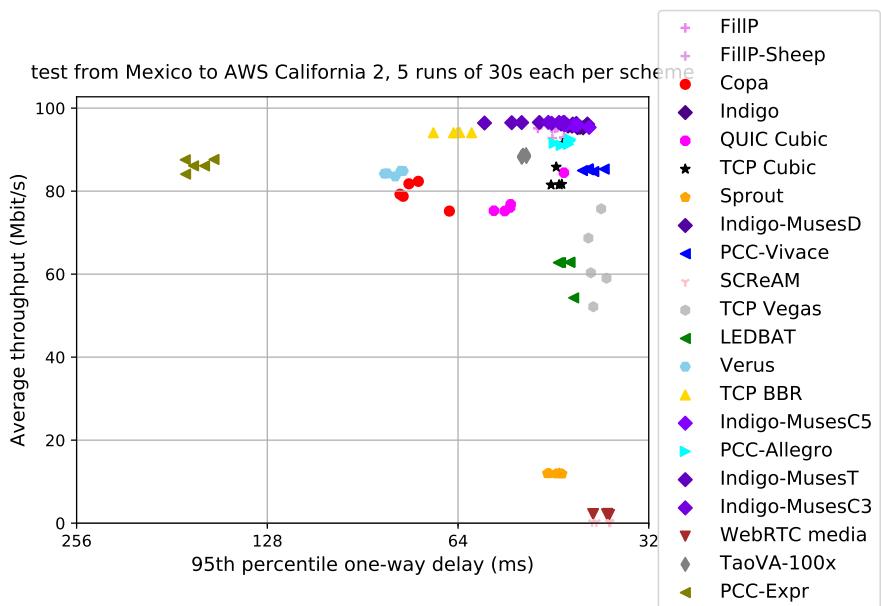
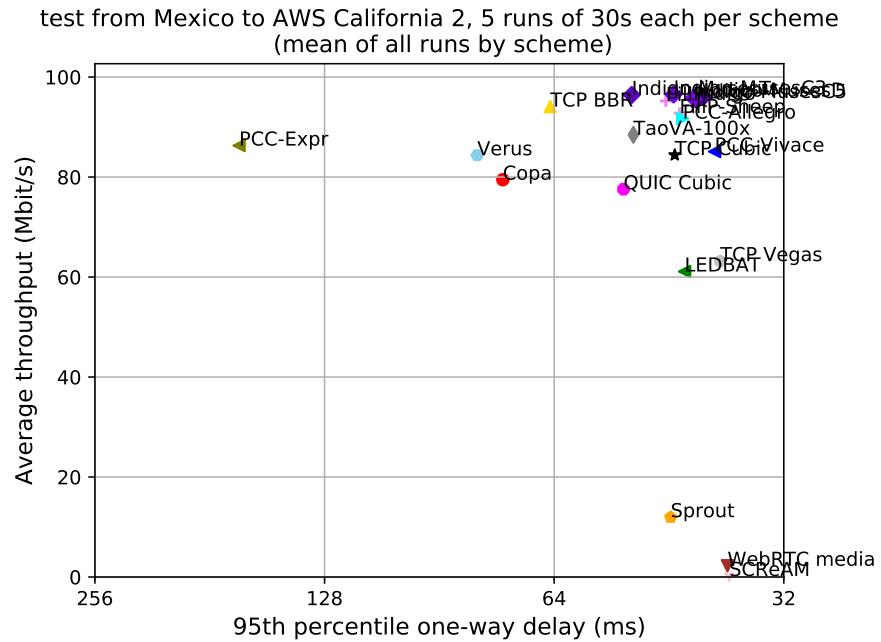
System info:

```
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 @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851



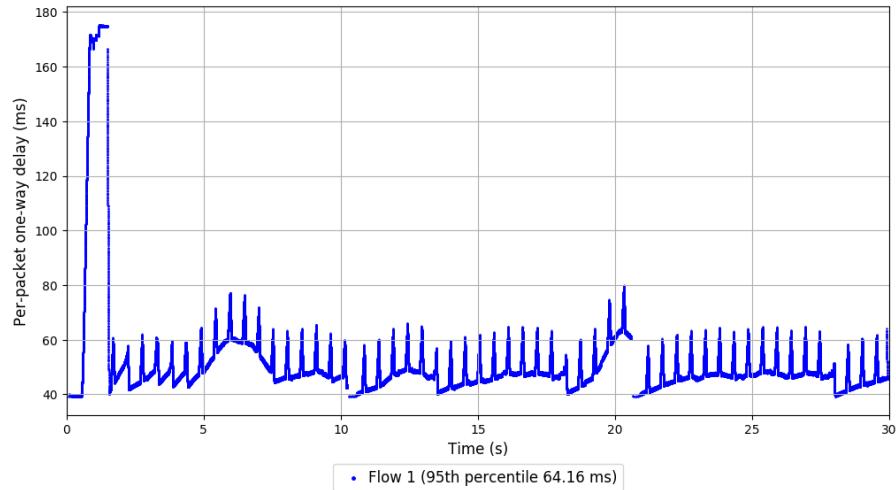
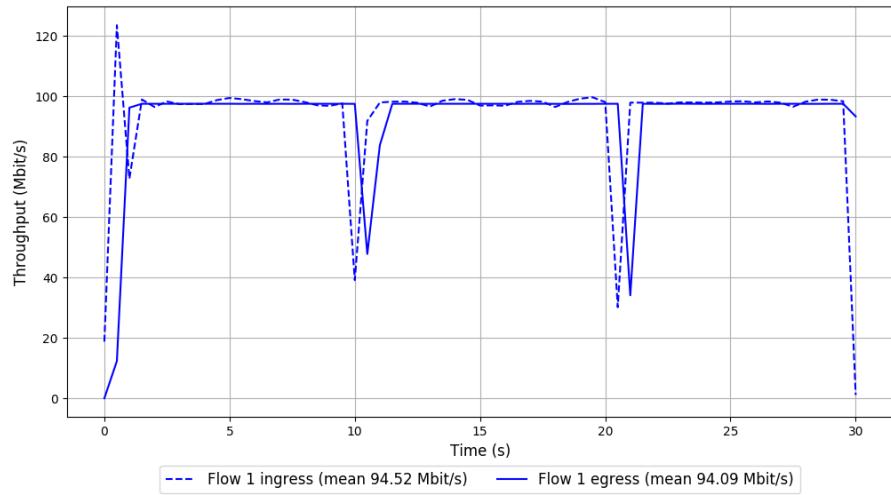
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	94.09	64.75	0.70
Copa	5	79.47	74.73	0.33
TCP Cubic	5	84.40	44.48	0.24
FillP	5	95.21	45.69	0.22
FillP-Sheep	5	92.80	43.84	0.23
Indigo	5	95.47	41.67	0.23
Indigo-MusesC3	5	96.51	44.63	0.24
Indigo-MusesC5	5	95.81	41.98	0.24
Indigo-MusesD	5	96.09	40.77	0.24
Indigo-MusesT	5	96.43	50.64	0.32
LEDBAT	5	61.11	43.18	0.36
PCC-Allegro	5	91.69	43.42	0.32
PCC-Expr	5	86.29	165.68	0.31
QUIC Cubic	5	77.56	51.91	0.29
SCReAM	5	0.21	37.73	0.26
Sprout	5	11.96	45.03	0.19
TaoVA-100x	5	88.45	50.39	0.23
TCP Vegas	5	63.18	38.77	0.23
Verus	5	84.36	80.75	0.43
PCC-Vivace	5	85.10	39.43	0.24
WebRTC media	5	2.24	37.94	0.25

Run 1: Statistics of TCP BBR

```
Start at: 2019-02-11 22:38:12
End at: 2019-02-11 22:38:42
Local clock offset: -0.246 ms
Remote clock offset: -7.847 ms

# Below is generated by plot.py at 2019-02-12 00:37:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 64.158 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 64.158 ms
Loss rate: 0.67%
```

Run 1: Report of TCP BBR — Data Link

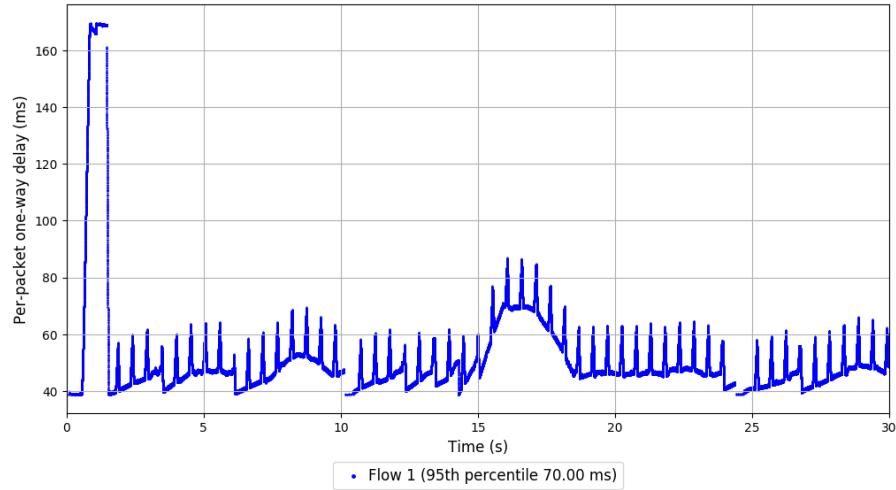
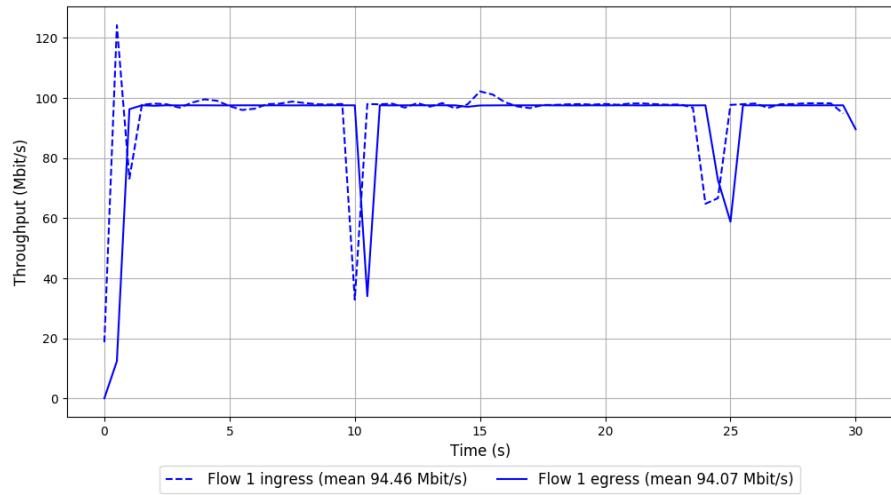


Run 2: Statistics of TCP BBR

```
Start at: 2019-02-11 23:03:08
End at: 2019-02-11 23:03:38
Local clock offset: -0.826 ms
Remote clock offset: -6.43 ms

# Below is generated by plot.py at 2019-02-12 00:37:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 69.999 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 69.999 ms
Loss rate: 0.63%
```

Run 2: Report of TCP BBR — Data Link

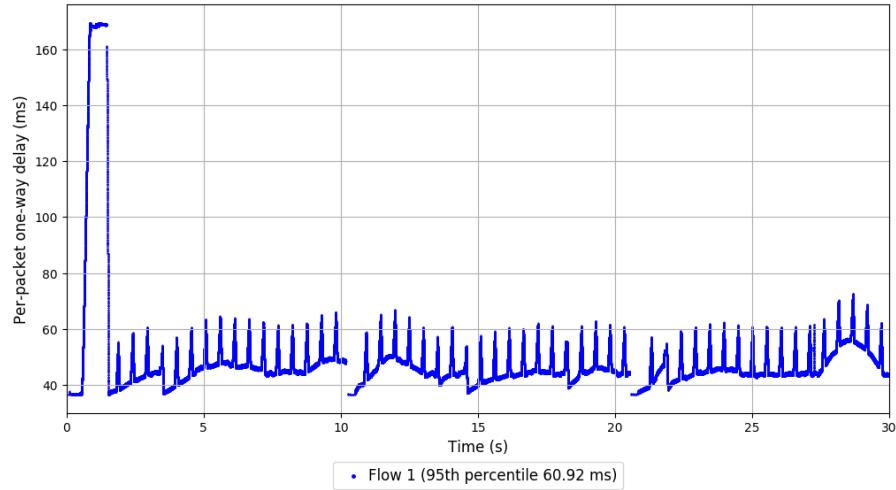
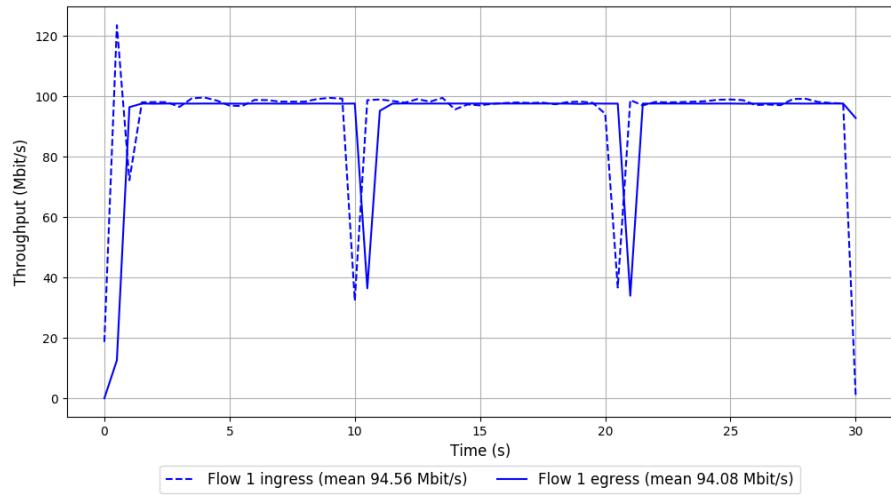


Run 3: Statistics of TCP BBR

```
Start at: 2019-02-11 23:27:48
End at: 2019-02-11 23:28:18
Local clock offset: 0.365 ms
Remote clock offset: -3.592 ms

# Below is generated by plot.py at 2019-02-12 00:37:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 60.919 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 60.919 ms
Loss rate: 0.72%
```

Run 3: Report of TCP BBR — Data Link

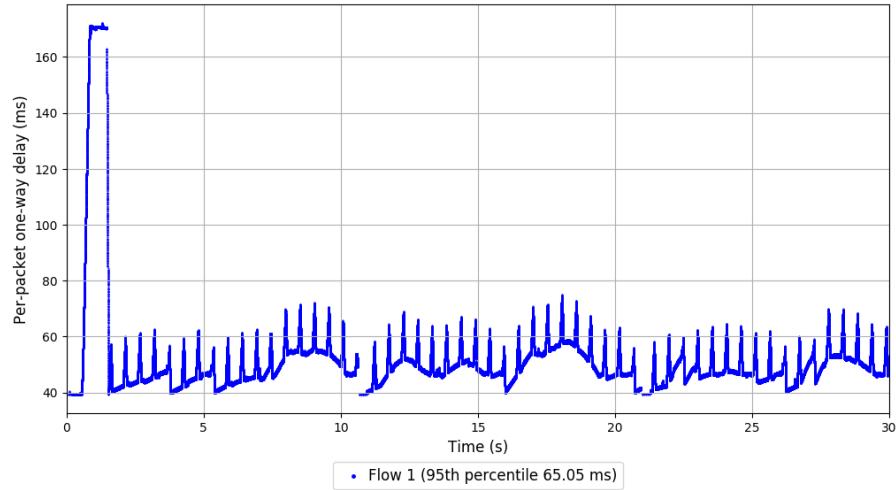
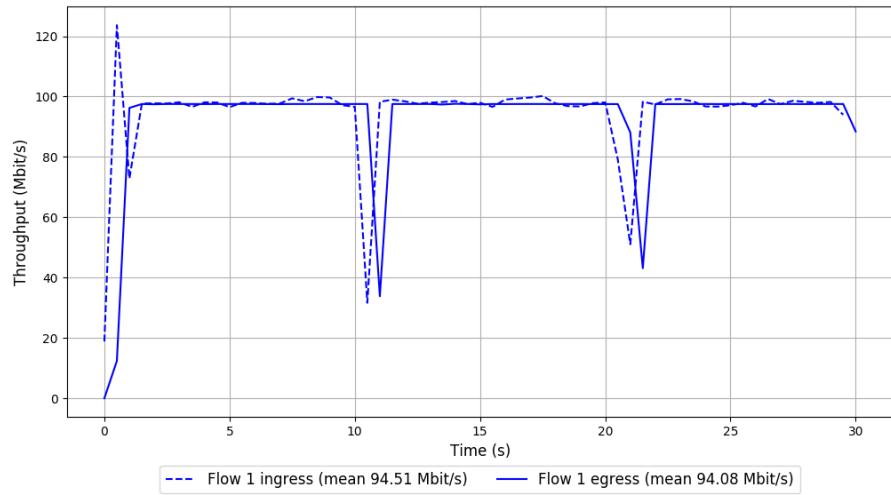


Run 4: Statistics of TCP BBR

```
Start at: 2019-02-11 23:52:31
End at: 2019-02-11 23:53:01
Local clock offset: 0.22 ms
Remote clock offset: -5.939 ms

# Below is generated by plot.py at 2019-02-12 00:37:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 65.051 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 65.051 ms
Loss rate: 0.67%
```

Run 4: Report of TCP BBR — Data Link

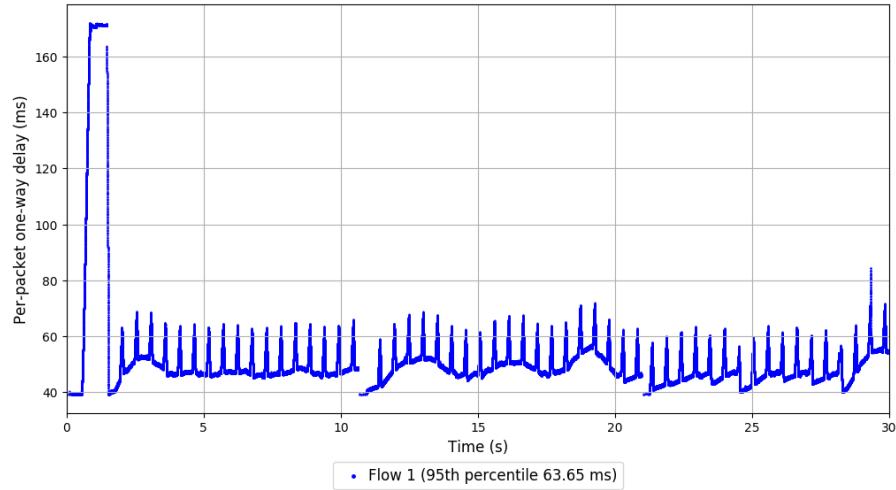
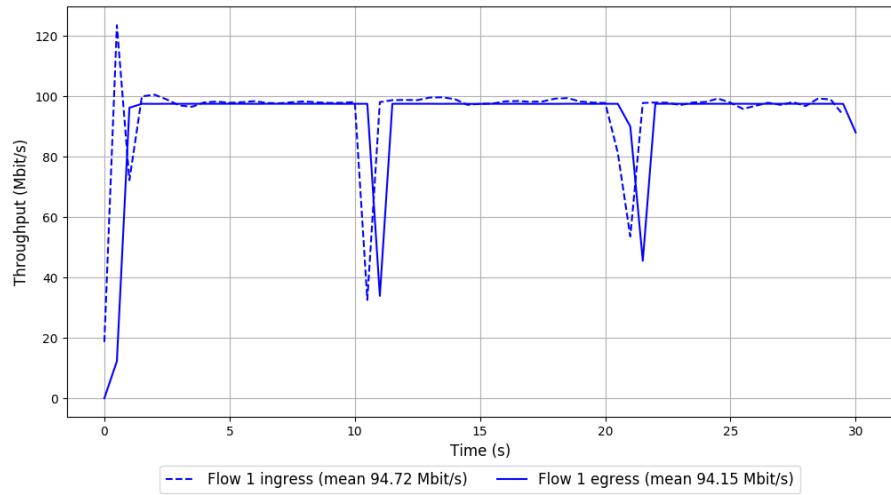


Run 5: Statistics of TCP BBR

```
Start at: 2019-02-12 00:17:19
End at: 2019-02-12 00:17:49
Local clock offset: -2.51 ms
Remote clock offset: -5.689 ms

# Below is generated by plot.py at 2019-02-12 00:37:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 63.648 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 63.648 ms
Loss rate: 0.81%
```

Run 5: Report of TCP BBR — Data Link

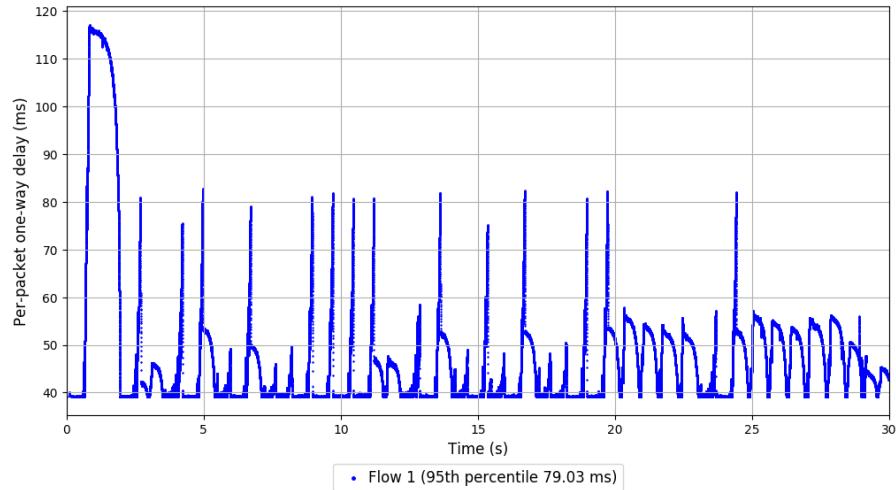
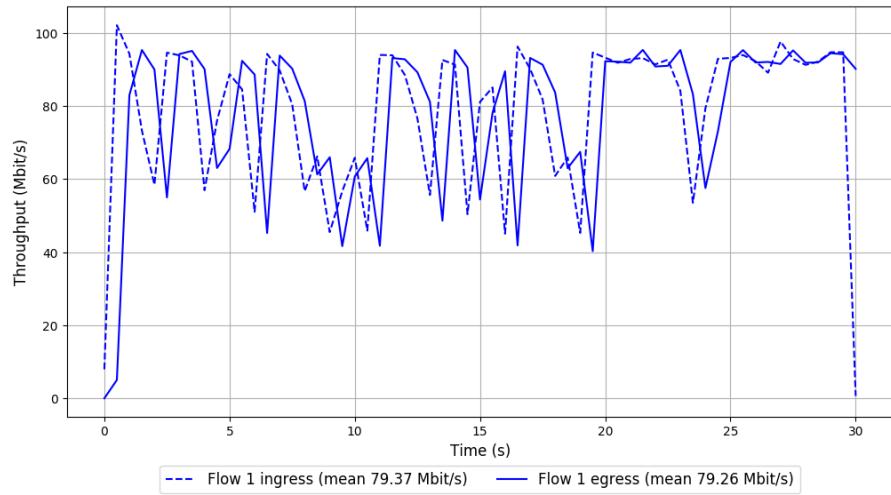


Run 1: Statistics of Copa

```
Start at: 2019-02-11 22:31:08
End at: 2019-02-11 22:31:38
Local clock offset: 0.033 ms
Remote clock offset: -7.769 ms

# Below is generated by plot.py at 2019-02-12 00:38:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.26 Mbit/s
95th percentile per-packet one-way delay: 79.028 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 79.26 Mbit/s
95th percentile per-packet one-way delay: 79.028 ms
Loss rate: 0.36%
```

Run 1: Report of Copa — Data Link

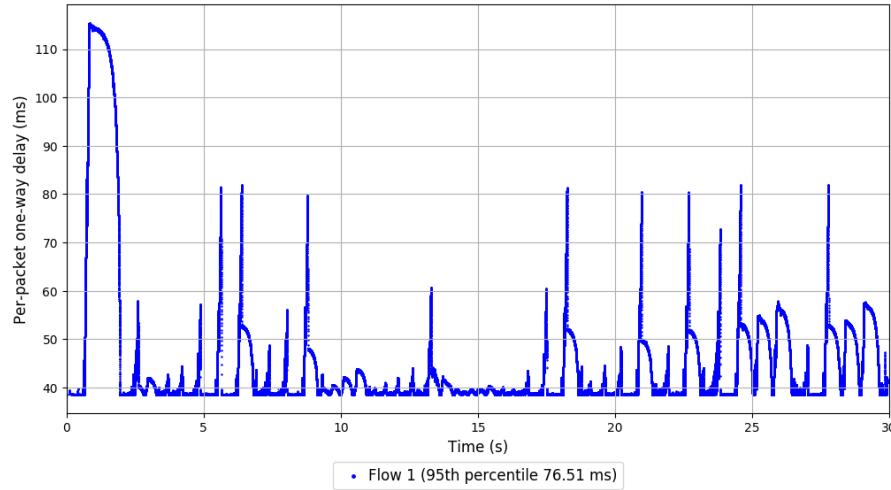
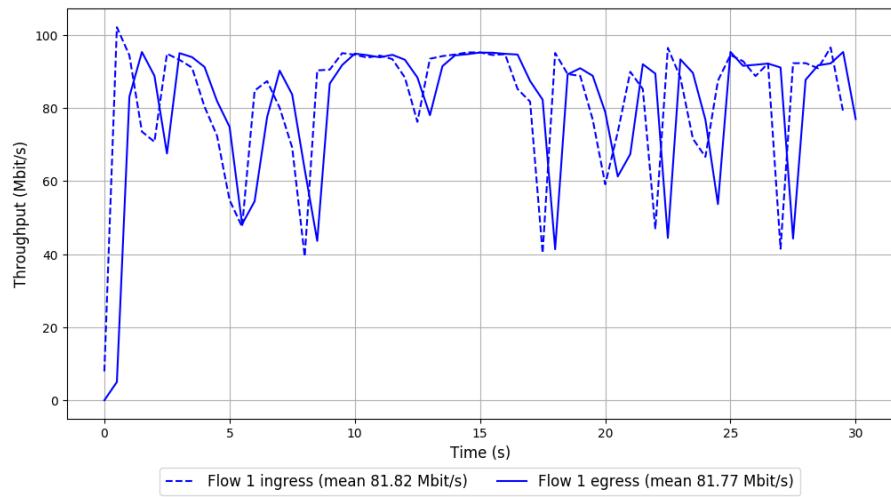


Run 2: Statistics of Copa

```
Start at: 2019-02-11 22:56:03
End at: 2019-02-11 22:56:33
Local clock offset: -0.713 ms
Remote clock offset: -6.348 ms

# Below is generated by plot.py at 2019-02-12 00:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.77 Mbit/s
95th percentile per-packet one-way delay: 76.508 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 81.77 Mbit/s
95th percentile per-packet one-way delay: 76.508 ms
Loss rate: 0.29%
```

Run 2: Report of Copa — Data Link

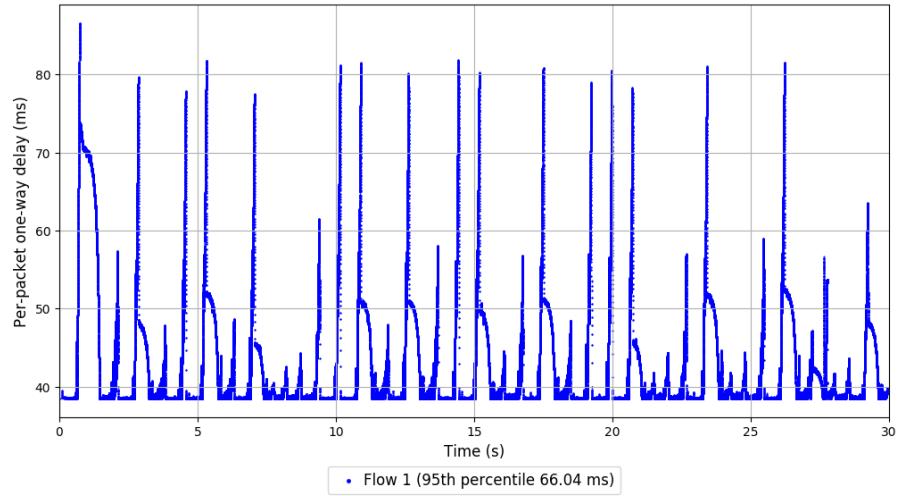
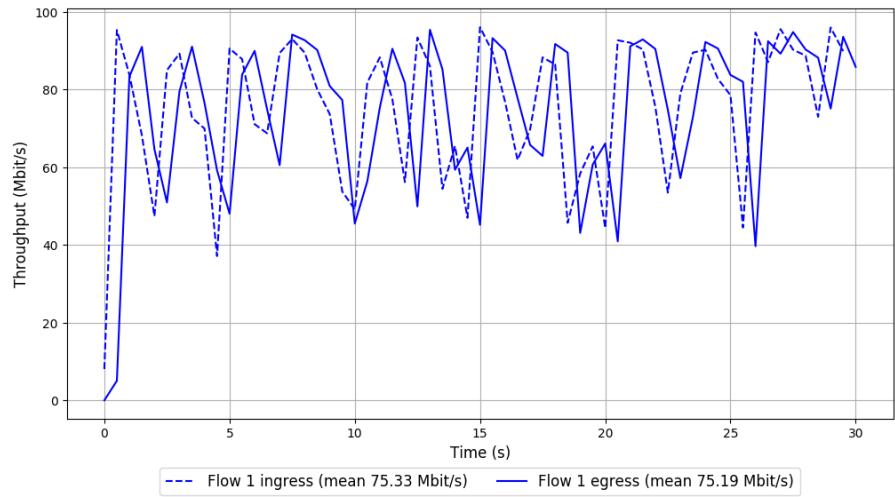


Run 3: Statistics of Copa

```
Start at: 2019-02-11 23:20:47
End at: 2019-02-11 23:21:17
Local clock offset: 0.232 ms
Remote clock offset: -5.68 ms

# Below is generated by plot.py at 2019-02-12 00:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.19 Mbit/s
95th percentile per-packet one-way delay: 66.043 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 75.19 Mbit/s
95th percentile per-packet one-way delay: 66.043 ms
Loss rate: 0.40%
```

Run 3: Report of Copa — Data Link

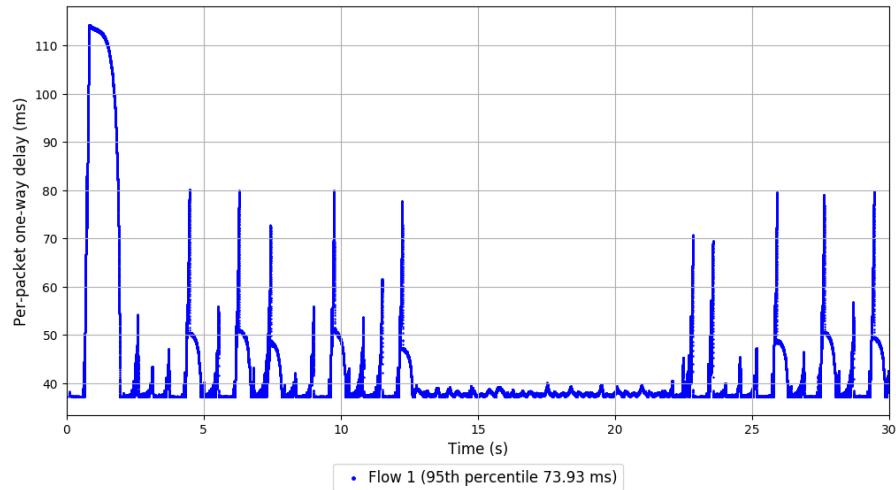
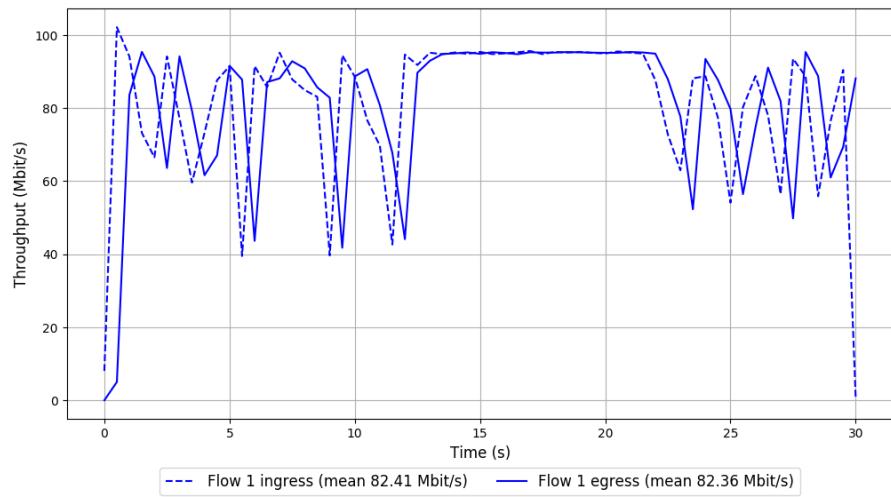


Run 4: Statistics of Copa

```
Start at: 2019-02-11 23:45:30
End at: 2019-02-11 23:46:00
Local clock offset: 0.242 ms
Remote clock offset: -3.9 ms

# Below is generated by plot.py at 2019-02-12 00:39:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.36 Mbit/s
95th percentile per-packet one-way delay: 73.933 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 82.36 Mbit/s
95th percentile per-packet one-way delay: 73.933 ms
Loss rate: 0.27%
```

Run 4: Report of Copa — Data Link

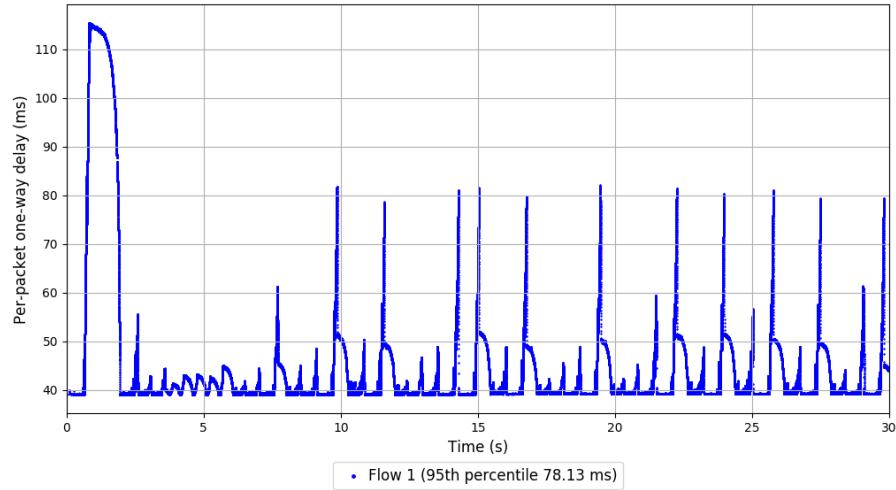
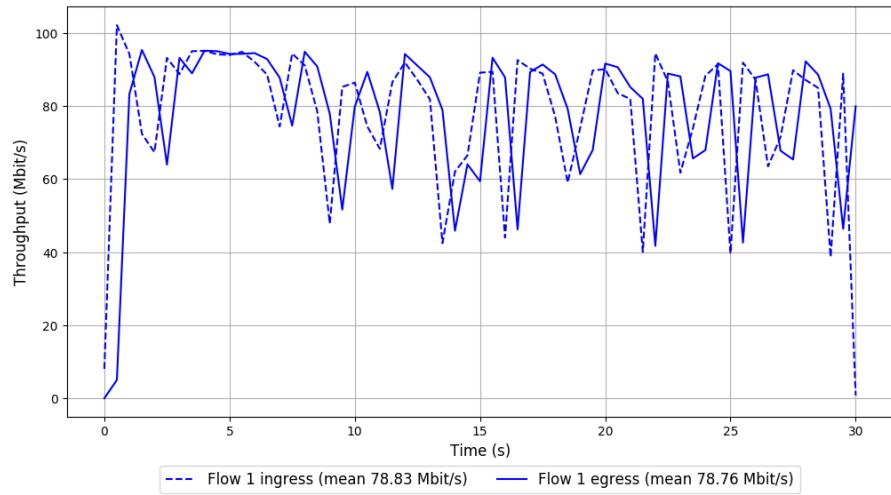


Run 5: Statistics of Copa

```
Start at: 2019-02-12 00:10:20
End at: 2019-02-12 00:10:50
Local clock offset: -1.477 ms
Remote clock offset: -5.516 ms

# Below is generated by plot.py at 2019-02-12 00:39:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.76 Mbit/s
95th percentile per-packet one-way delay: 78.131 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 78.76 Mbit/s
95th percentile per-packet one-way delay: 78.131 ms
Loss rate: 0.31%
```

Run 5: Report of Copa — Data Link

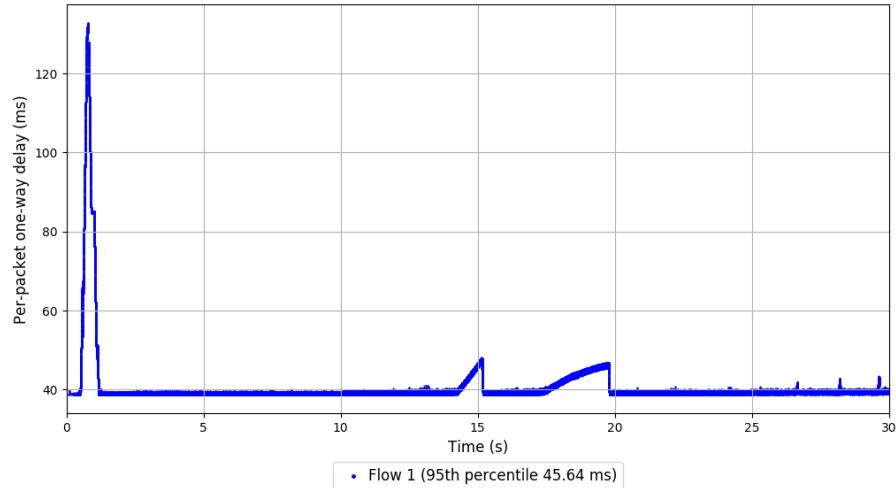
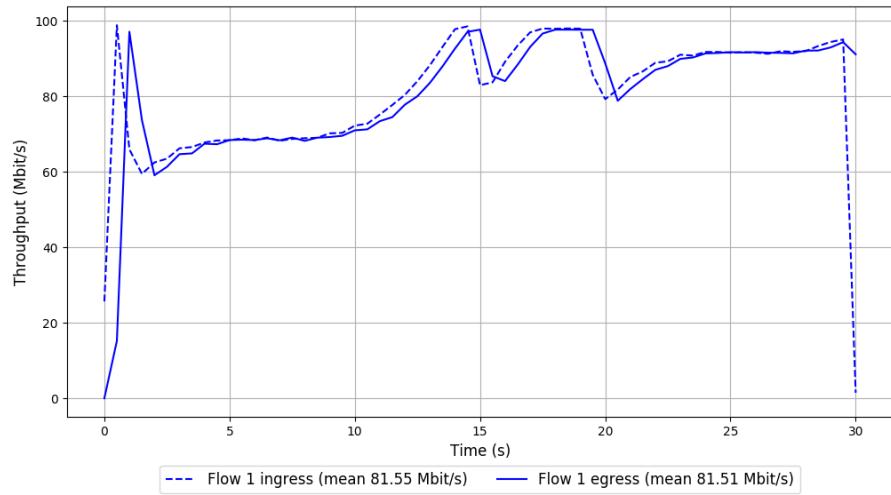


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-02-11 22:42:58
End at: 2019-02-11 22:43:28
Local clock offset: -0.41 ms
Remote clock offset: -7.236 ms

# Below is generated by plot.py at 2019-02-12 00:39:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.51 Mbit/s
95th percentile per-packet one-way delay: 45.637 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 81.51 Mbit/s
95th percentile per-packet one-way delay: 45.637 ms
Loss rate: 0.27%
```

Run 1: Report of TCP Cubic — Data Link

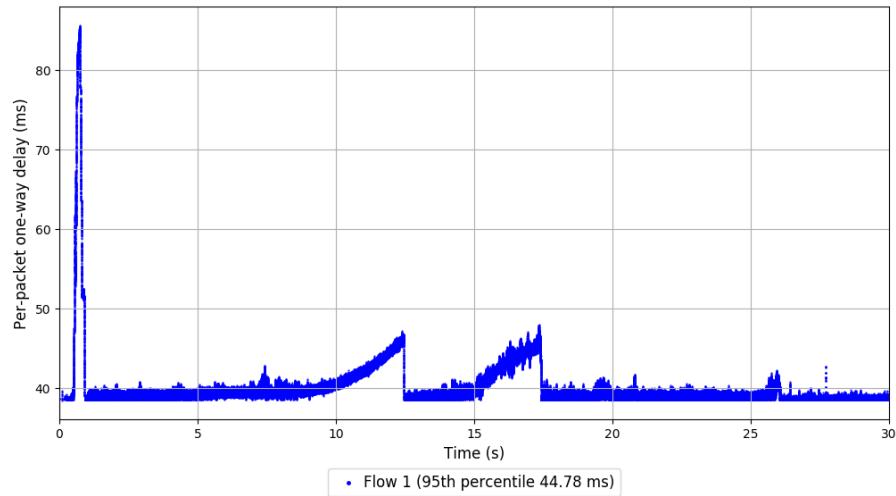
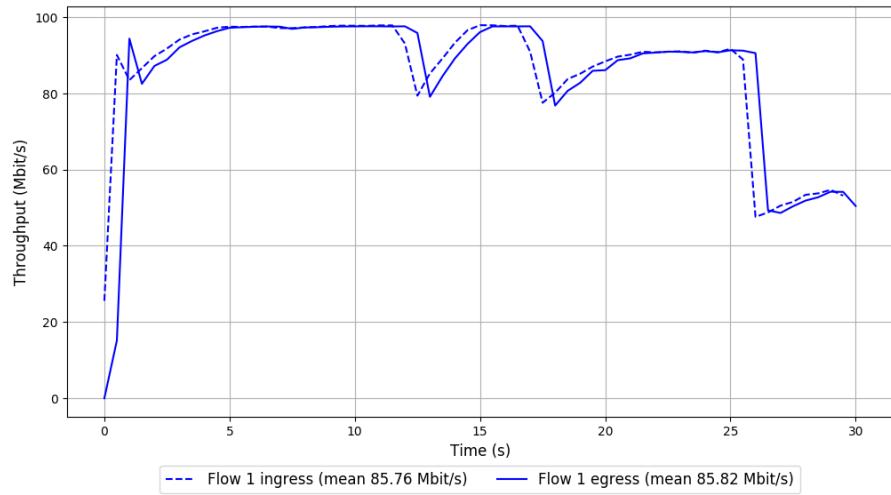


Run 2: Statistics of TCP Cubic

```
Start at: 2019-02-11 23:07:47
End at: 2019-02-11 23:08:17
Local clock offset: -0.415 ms
Remote clock offset: -6.147 ms

# Below is generated by plot.py at 2019-02-12 00:39:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.82 Mbit/s
95th percentile per-packet one-way delay: 44.784 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 85.82 Mbit/s
95th percentile per-packet one-way delay: 44.784 ms
Loss rate: 0.15%
```

Run 2: Report of TCP Cubic — Data Link

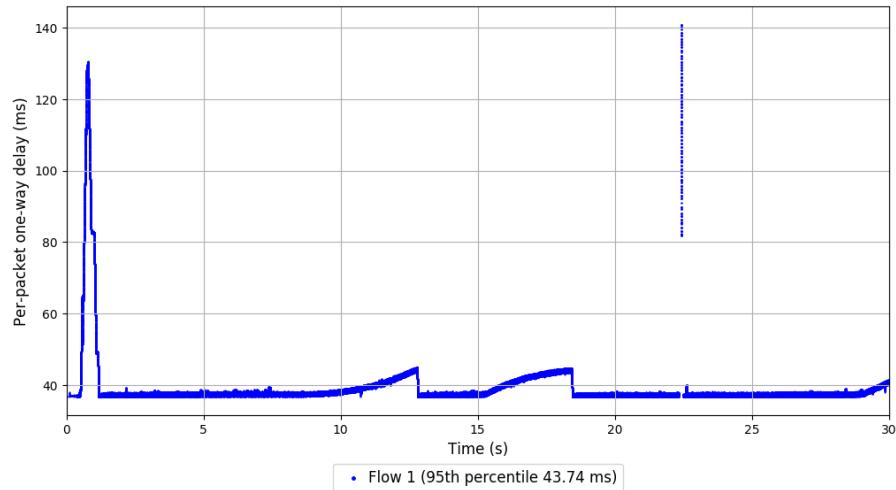
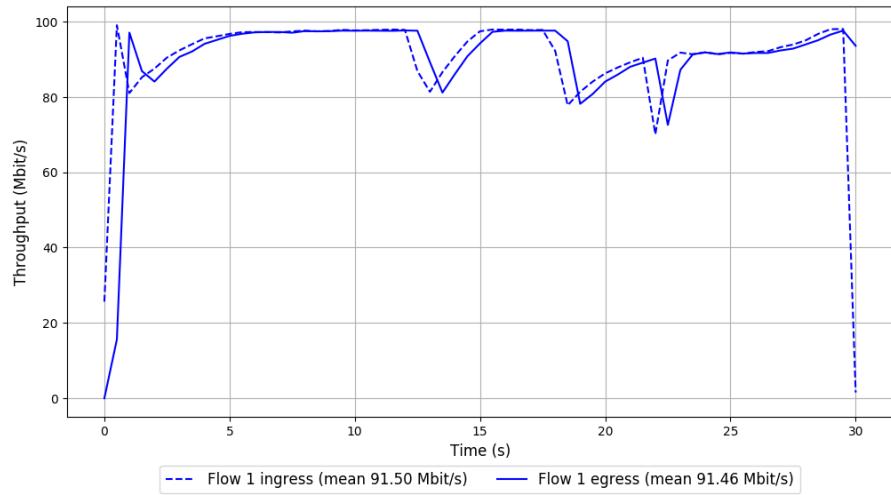


Run 3: Statistics of TCP Cubic

```
Start at: 2019-02-11 23:32:35
End at: 2019-02-11 23:33:05
Local clock offset: 0.405 ms
Remote clock offset: -3.701 ms

# Below is generated by plot.py at 2019-02-12 00:39:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.46 Mbit/s
95th percentile per-packet one-way delay: 43.736 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 91.46 Mbit/s
95th percentile per-packet one-way delay: 43.736 ms
Loss rate: 0.26%
```

Run 3: Report of TCP Cubic — Data Link

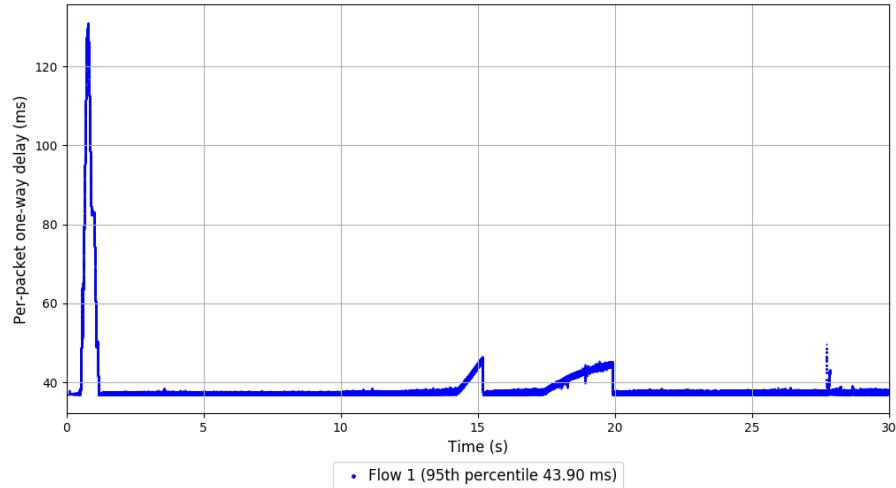
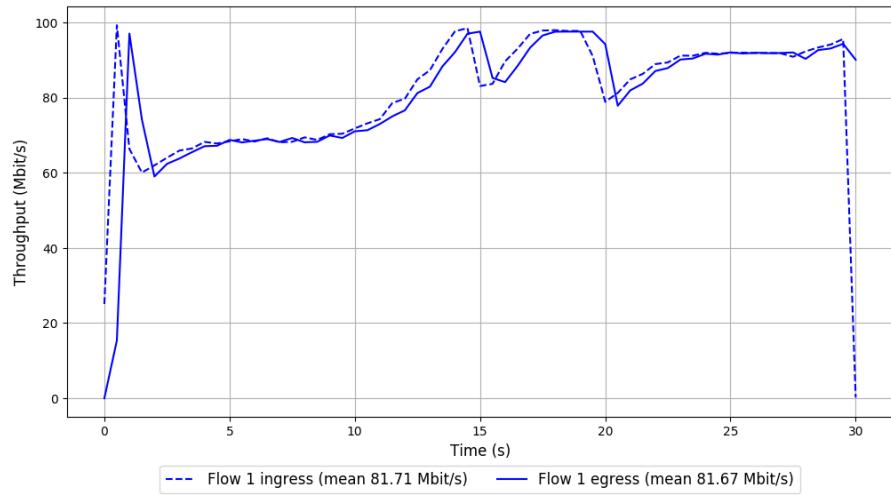


Run 4: Statistics of TCP Cubic

```
Start at: 2019-02-11 23:57:11
End at: 2019-02-11 23:57:41
Local clock offset: 0.209 ms
Remote clock offset: -3.538 ms

# Below is generated by plot.py at 2019-02-12 00:39:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.67 Mbit/s
95th percentile per-packet one-way delay: 43.900 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 81.67 Mbit/s
95th percentile per-packet one-way delay: 43.900 ms
Loss rate: 0.27%
```

Run 4: Report of TCP Cubic — Data Link

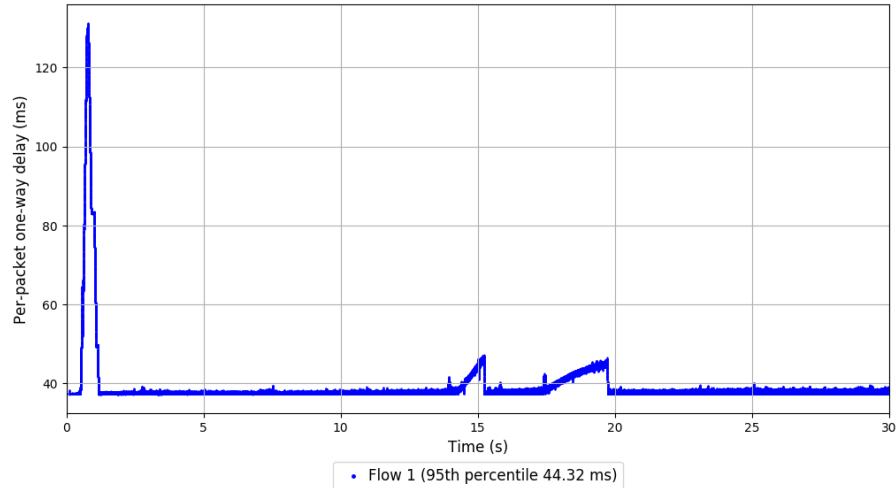
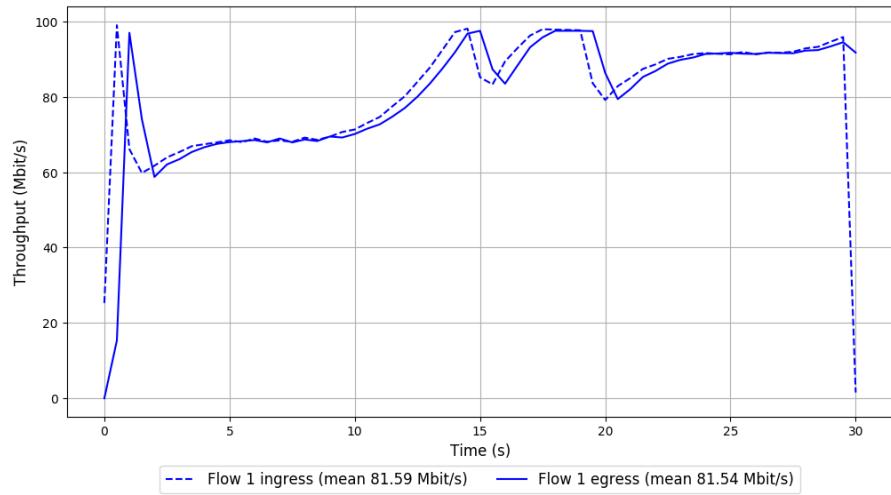


Run 5: Statistics of TCP Cubic

```
Start at: 2019-02-12 00:21:58
End at: 2019-02-12 00:22:28
Local clock offset: -2.934 ms
Remote clock offset: -3.622 ms

# Below is generated by plot.py at 2019-02-12 00:39:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.54 Mbit/s
95th percentile per-packet one-way delay: 44.321 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 81.54 Mbit/s
95th percentile per-packet one-way delay: 44.321 ms
Loss rate: 0.27%
```

Run 5: Report of TCP Cubic — Data Link

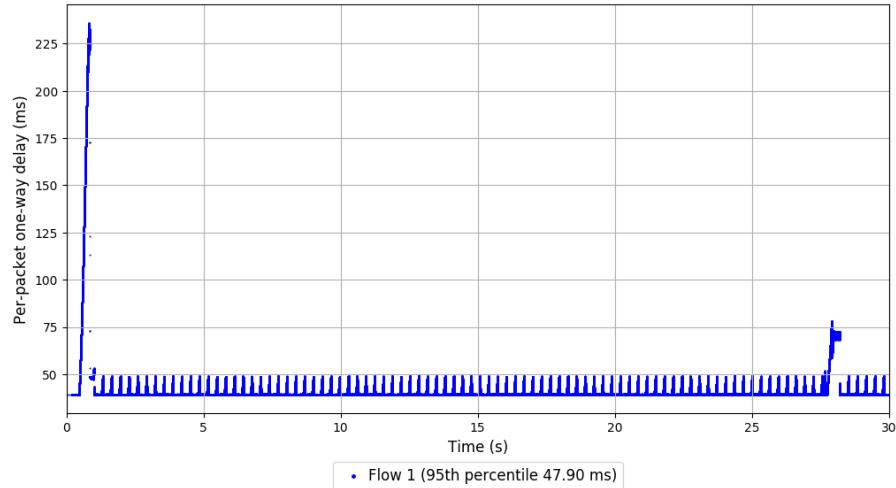
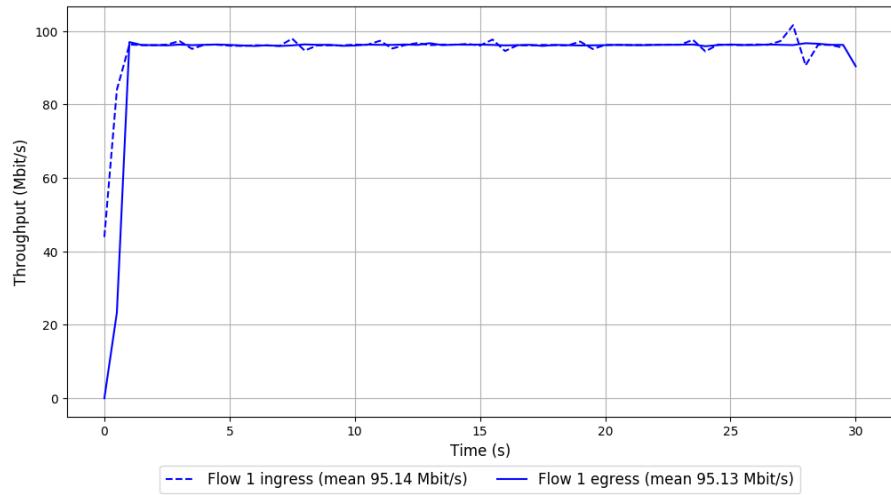


```
Run 1: Statistics of FillP

Start at: 2019-02-11 22:39:26
End at: 2019-02-11 22:39:56
Local clock offset: -0.281 ms
Remote clock offset: -7.825 ms

# Below is generated by plot.py at 2019-02-12 00:39:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.13 Mbit/s
95th percentile per-packet one-way delay: 47.898 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.13 Mbit/s
95th percentile per-packet one-way delay: 47.898 ms
Loss rate: 0.23%
```

Run 1: Report of FillP — Data Link

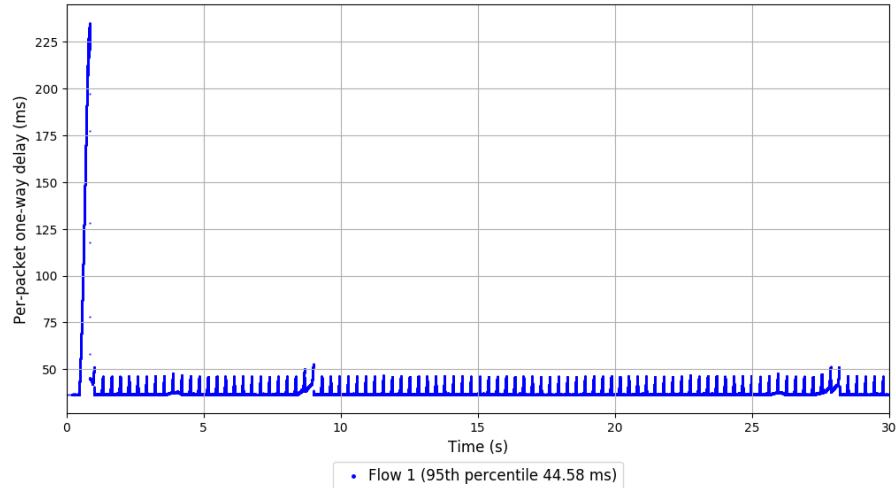
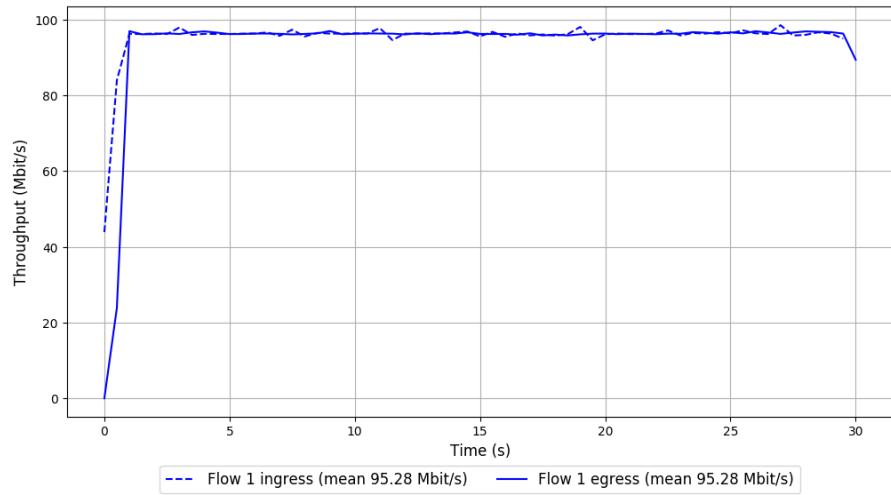


Run 2: Statistics of FillP

```
Start at: 2019-02-11 23:04:19
End at: 2019-02-11 23:04:49
Local clock offset: -0.834 ms
Remote clock offset: -4.267 ms

# Below is generated by plot.py at 2019-02-12 00:39:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 44.575 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 44.575 ms
Loss rate: 0.22%
```

Run 2: Report of FillP — Data Link

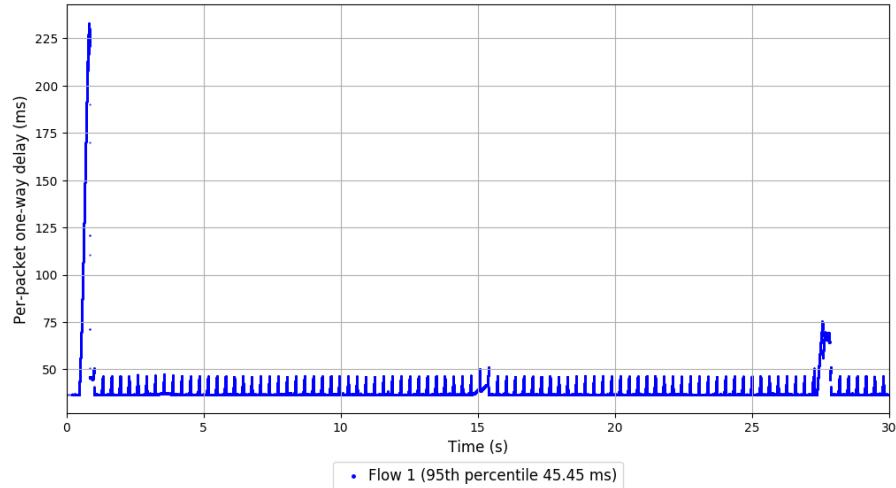
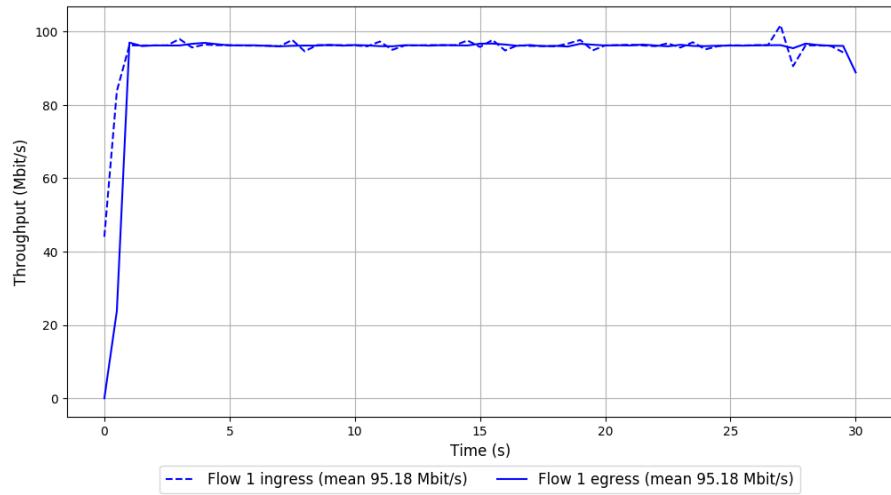


```
Run 3: Statistics of FillP
```

```
Start at: 2019-02-11 23:29:00
End at: 2019-02-11 23:29:30
Local clock offset: 0.382 ms
Remote clock offset: -3.671 ms

# Below is generated by plot.py at 2019-02-12 00:39:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 45.446 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 45.446 ms
Loss rate: 0.22%
```

Run 3: Report of FillP — Data Link

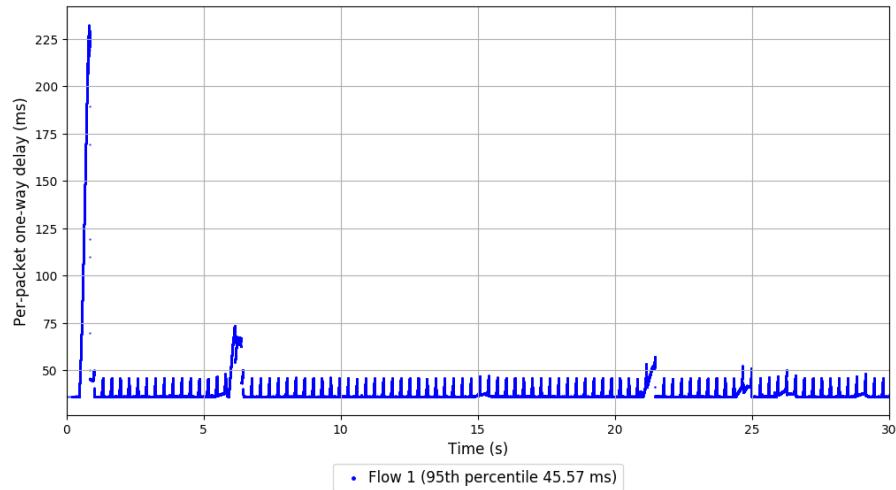
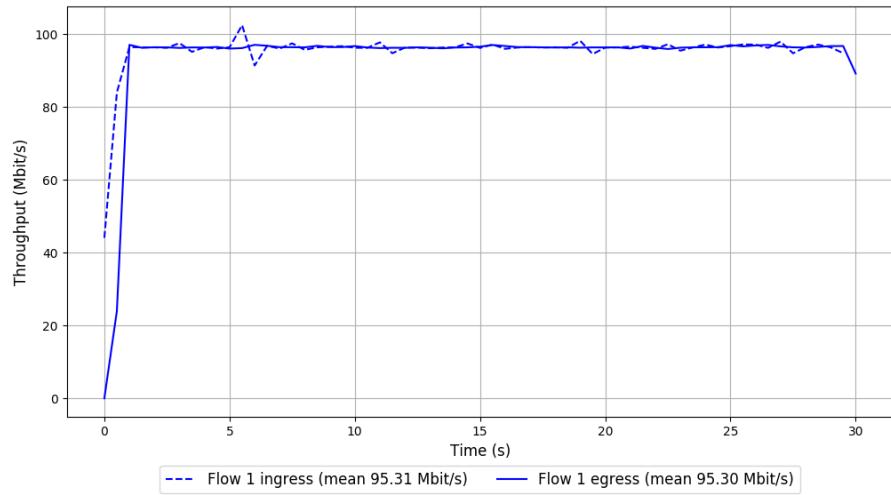


Run 4: Statistics of FillP

```
Start at: 2019-02-11 23:53:42
End at: 2019-02-11 23:54:12
Local clock offset: 0.209 ms
Remote clock offset: -2.947 ms

# Below is generated by plot.py at 2019-02-12 00:40:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.30 Mbit/s
95th percentile per-packet one-way delay: 45.568 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.30 Mbit/s
95th percentile per-packet one-way delay: 45.568 ms
Loss rate: 0.23%
```

Run 4: Report of FillP — Data Link

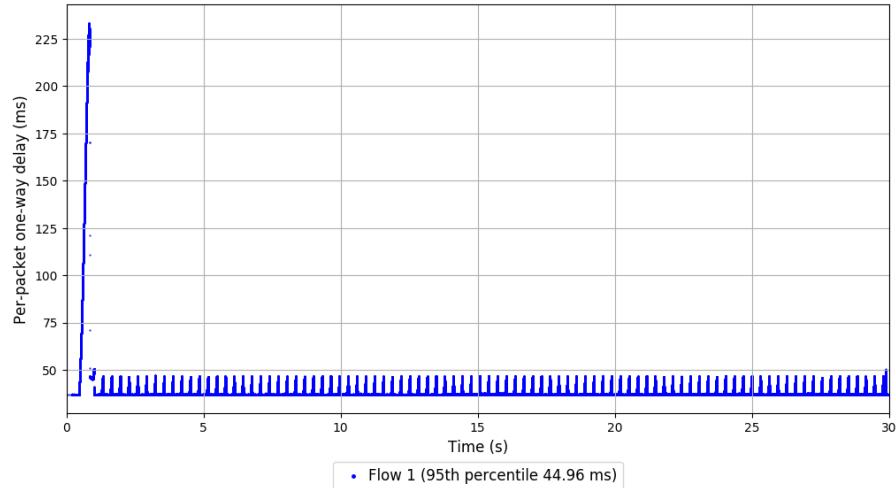
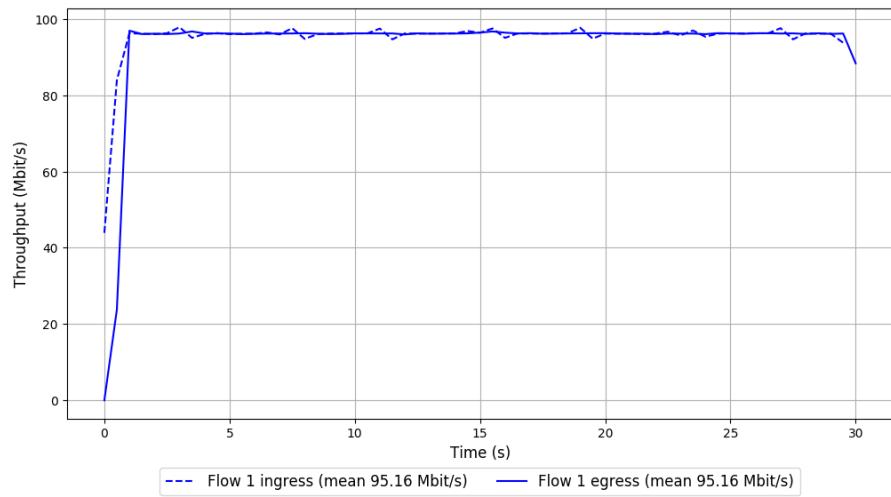


```
Run 5: Statistics of FillP
```

```
Start at: 2019-02-12 00:18:31
End at: 2019-02-12 00:19:01
Local clock offset: -2.623 ms
Remote clock offset: -3.436 ms

# Below is generated by plot.py at 2019-02-12 00:40:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 44.963 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 44.963 ms
Loss rate: 0.22%
```

Run 5: Report of FillP — Data Link

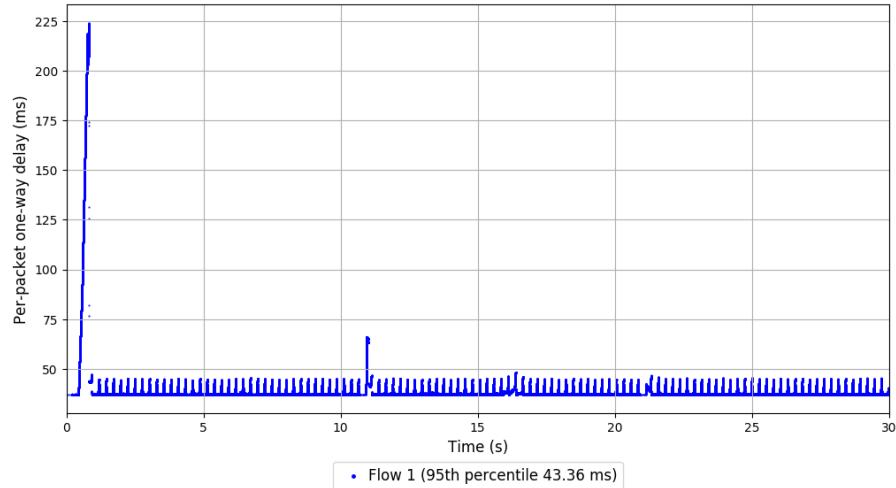
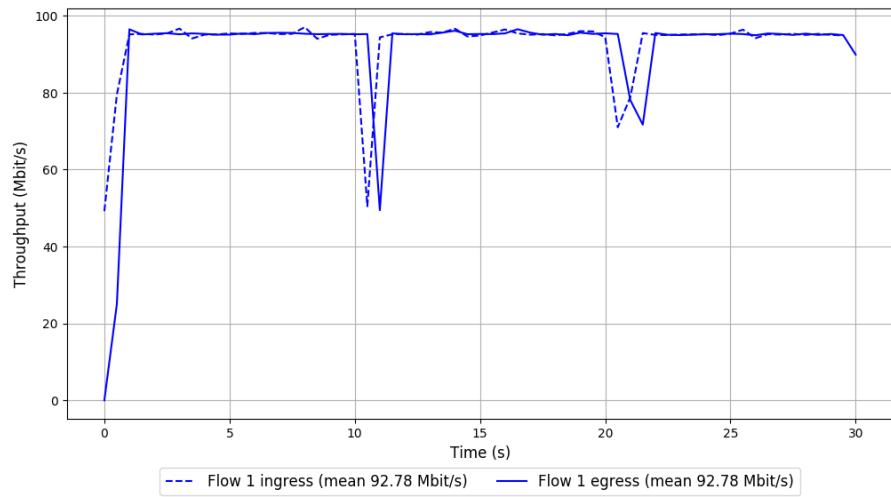


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-02-11 22:44:10
End at: 2019-02-11 22:44:40
Local clock offset: -0.467 ms
Remote clock offset: -5.346 ms

# Below is generated by plot.py at 2019-02-12 00:40:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 43.360 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 43.360 ms
Loss rate: 0.22%
```

Run 1: Report of FillP-Sheep — Data Link

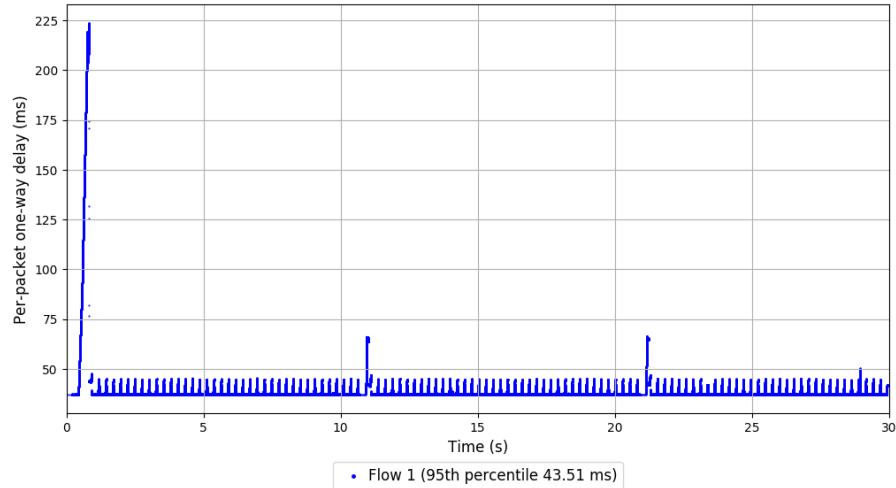
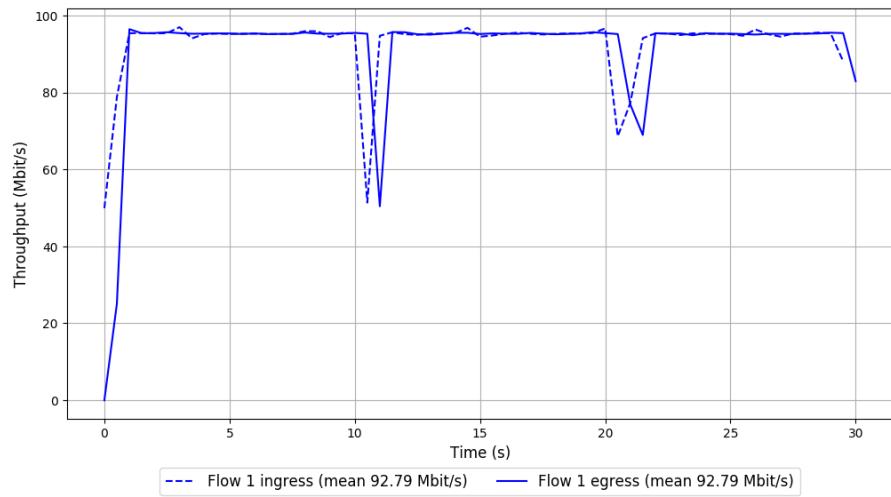


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-02-11 23:08:58
End at: 2019-02-11 23:09:28
Local clock offset: -0.335 ms
Remote clock offset: -4.724 ms

# Below is generated by plot.py at 2019-02-12 00:40:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.79 Mbit/s
95th percentile per-packet one-way delay: 43.508 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 92.79 Mbit/s
95th percentile per-packet one-way delay: 43.508 ms
Loss rate: 0.22%
```

Run 2: Report of FillP-Sheep — Data Link

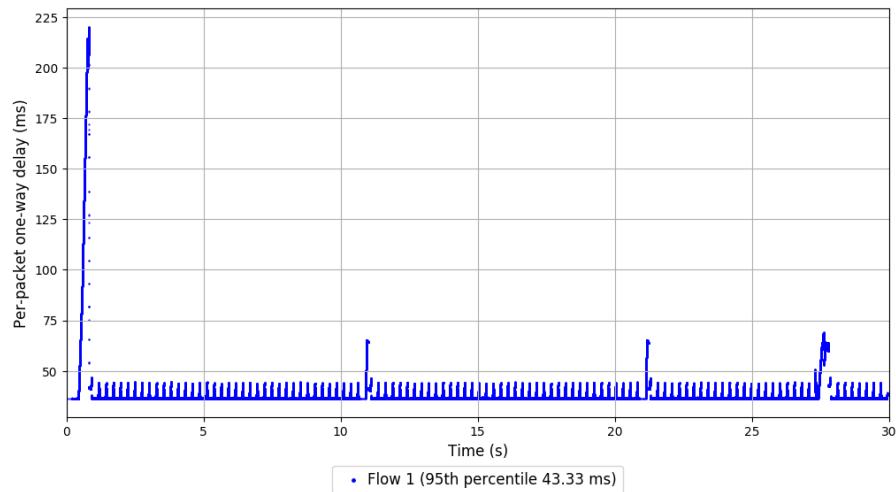
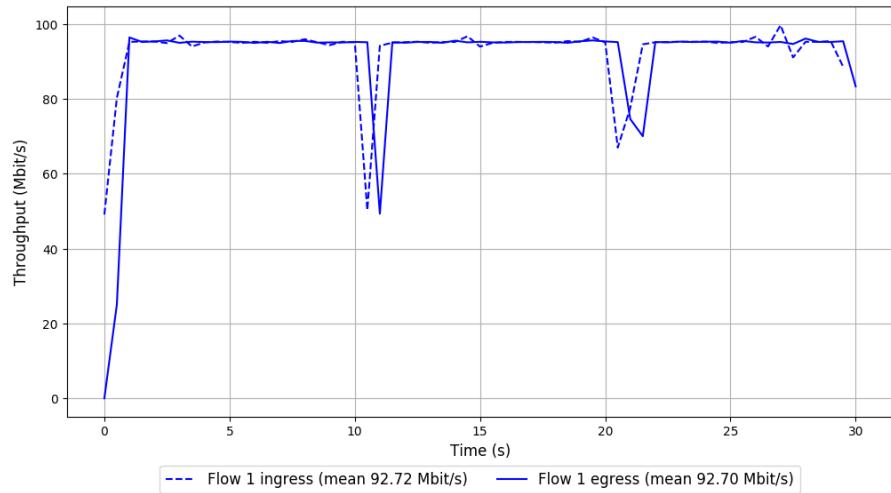


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-02-11 23:33:47
End at: 2019-02-11 23:34:17
Local clock offset: 0.435 ms
Remote clock offset: -3.201 ms

# Below is generated by plot.py at 2019-02-12 00:40:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 43.328 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 43.328 ms
Loss rate: 0.24%
```

Run 3: Report of FillP-Sheep — Data Link

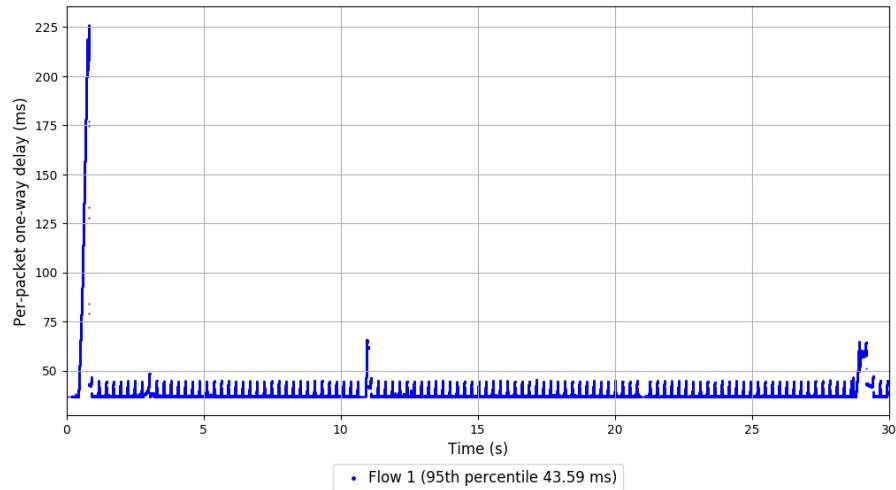
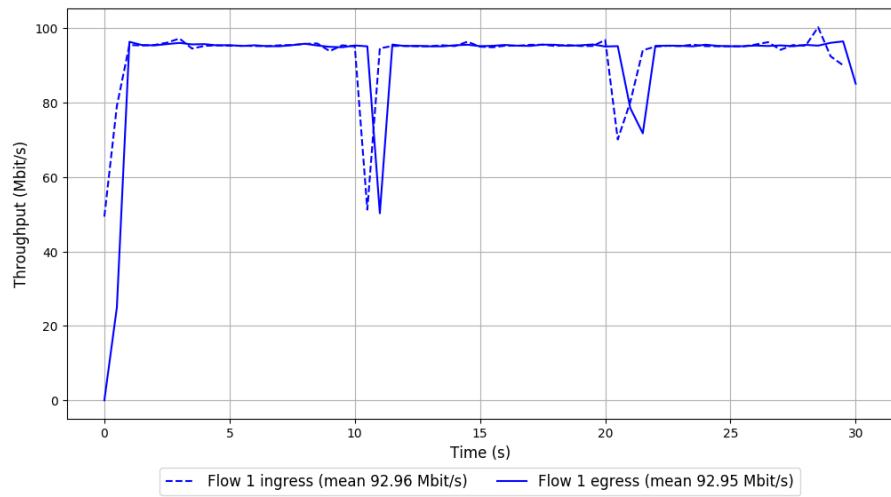


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-02-11 23:58:22
End at: 2019-02-11 23:58:52
Local clock offset: 0.226 ms
Remote clock offset: -3.435 ms

# Below is generated by plot.py at 2019-02-12 00:41:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 43.593 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 43.593 ms
Loss rate: 0.22%
```

Run 4: Report of FillP-Sheep — Data Link

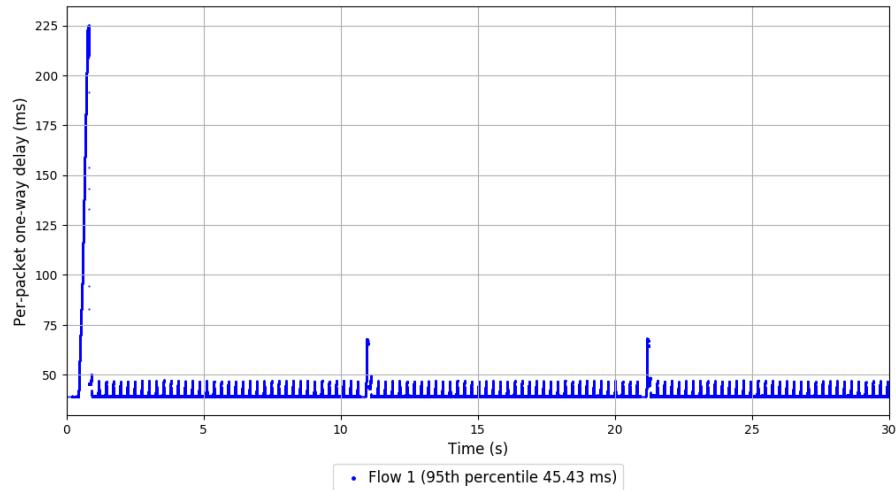
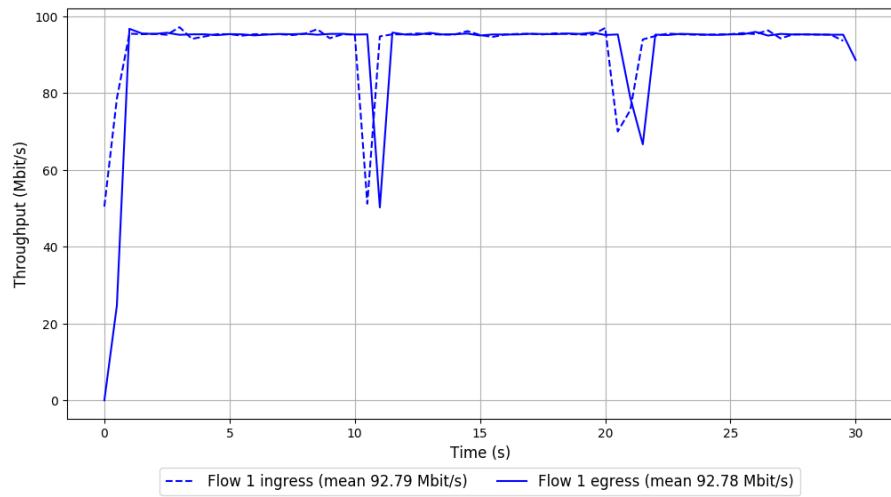


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-02-12 00:23:08
End at: 2019-02-12 00:23:38
Local clock offset: -3.037 ms
Remote clock offset: -5.437 ms

# Below is generated by plot.py at 2019-02-12 00:41:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 45.426 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 45.426 ms
Loss rate: 0.23%
```

Run 5: Report of FillP-Sheep — Data Link

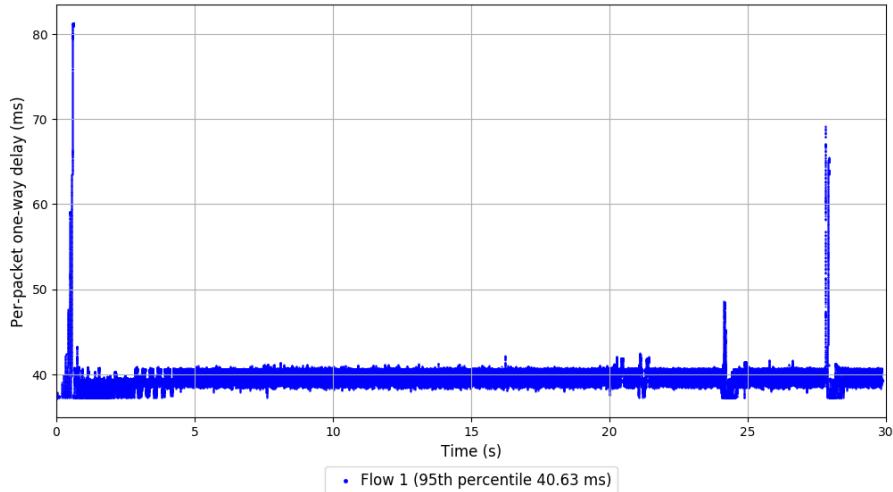
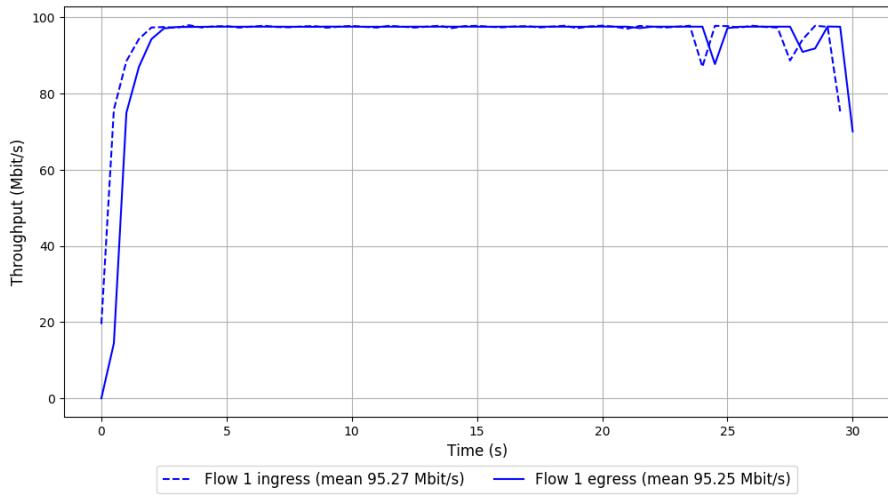


Run 1: Statistics of Indigo

```
Start at: 2019-02-11 22:40:37
End at: 2019-02-11 22:41:07
Local clock offset: -0.331 ms
Remote clock offset: -5.707 ms

# Below is generated by plot.py at 2019-02-12 00:41:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.25 Mbit/s
95th percentile per-packet one-way delay: 40.626 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.25 Mbit/s
95th percentile per-packet one-way delay: 40.626 ms
Loss rate: 0.23%
```

Run 1: Report of Indigo — Data Link

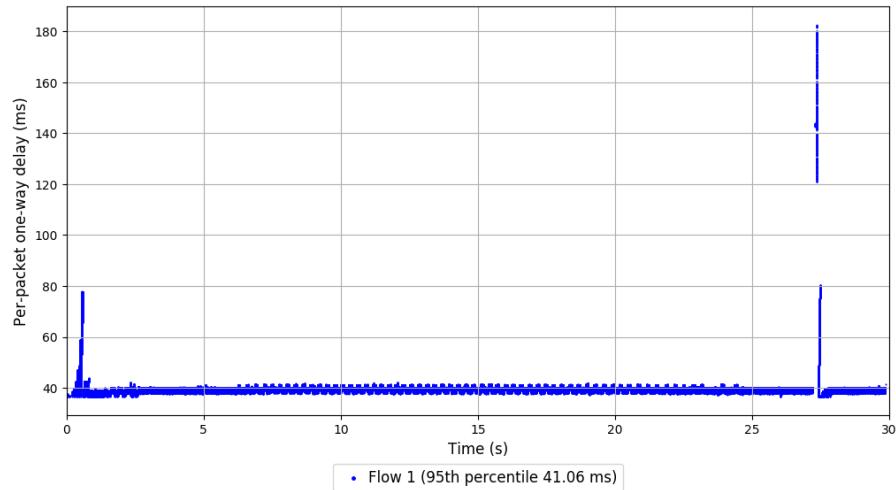
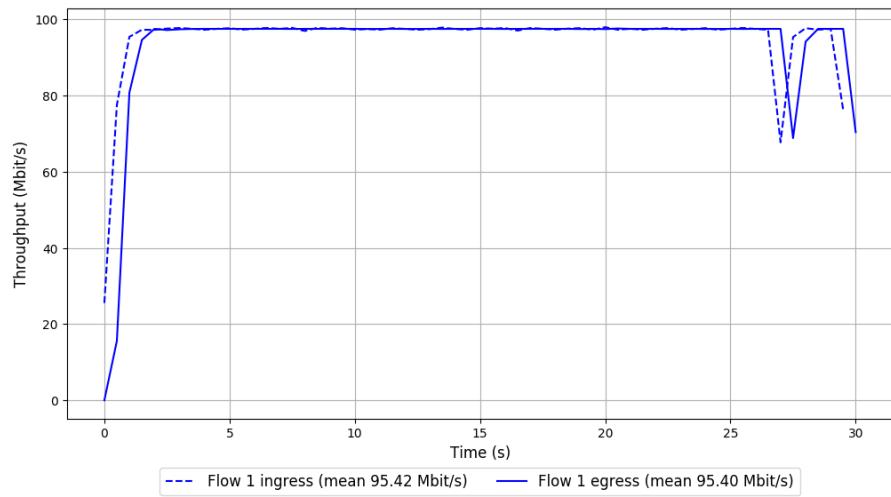


Run 2: Statistics of Indigo

```
Start at: 2019-02-11 23:05:29
End at: 2019-02-11 23:05:59
Local clock offset: -0.71 ms
Remote clock offset: -4.284 ms

# Below is generated by plot.py at 2019-02-12 00:41:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.40 Mbit/s
95th percentile per-packet one-way delay: 41.065 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.40 Mbit/s
95th percentile per-packet one-way delay: 41.065 ms
Loss rate: 0.23%
```

Run 2: Report of Indigo — Data Link

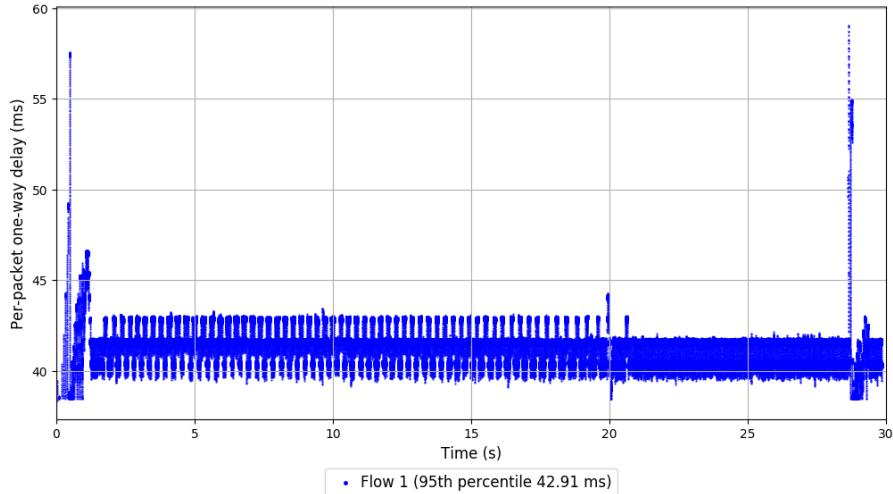
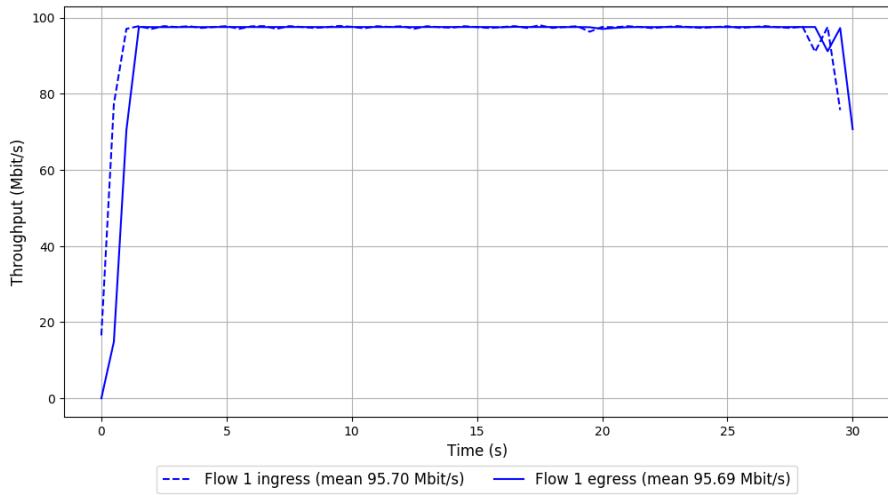


Run 3: Statistics of Indigo

```
Start at: 2019-02-11 23:30:10
End at: 2019-02-11 23:30:40
Local clock offset: 0.392 ms
Remote clock offset: -5.322 ms

# Below is generated by plot.py at 2019-02-12 00:41:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 42.906 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 42.906 ms
Loss rate: 0.23%
```

Run 3: Report of Indigo — Data Link

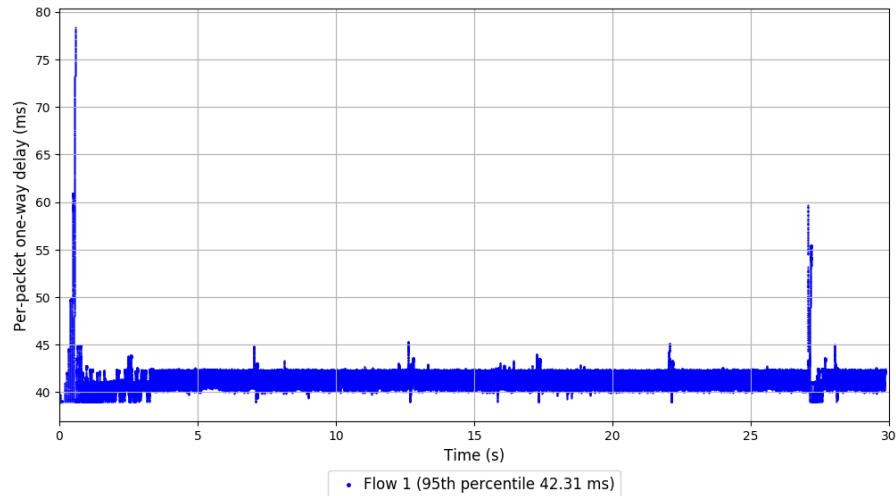
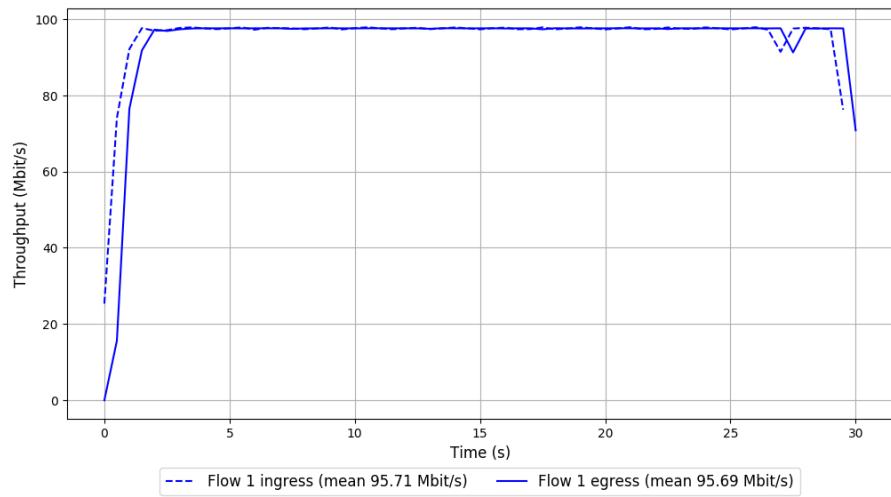


Run 4: Statistics of Indigo

```
Start at: 2019-02-11 23:54:52
End at: 2019-02-11 23:55:22
Local clock offset: 0.212 ms
Remote clock offset: -5.652 ms

# Below is generated by plot.py at 2019-02-12 00:41:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 42.311 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 42.311 ms
Loss rate: 0.23%
```

Run 4: Report of Indigo — Data Link

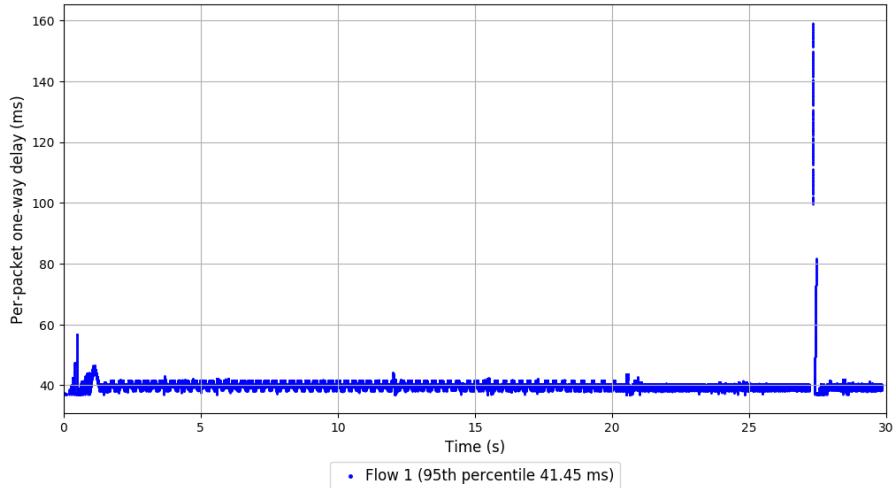
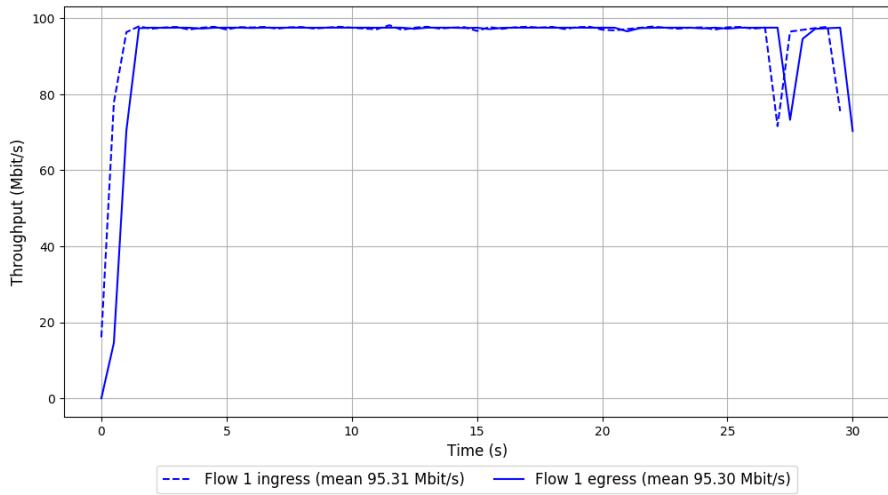


Run 5: Statistics of Indigo

```
Start at: 2019-02-12 00:19:40
End at: 2019-02-12 00:20:10
Local clock offset: -2.748 ms
Remote clock offset: -3.355 ms

# Below is generated by plot.py at 2019-02-12 00:41:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.30 Mbit/s
95th percentile per-packet one-way delay: 41.447 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.30 Mbit/s
95th percentile per-packet one-way delay: 41.447 ms
Loss rate: 0.23%
```

Run 5: Report of Indigo — Data Link

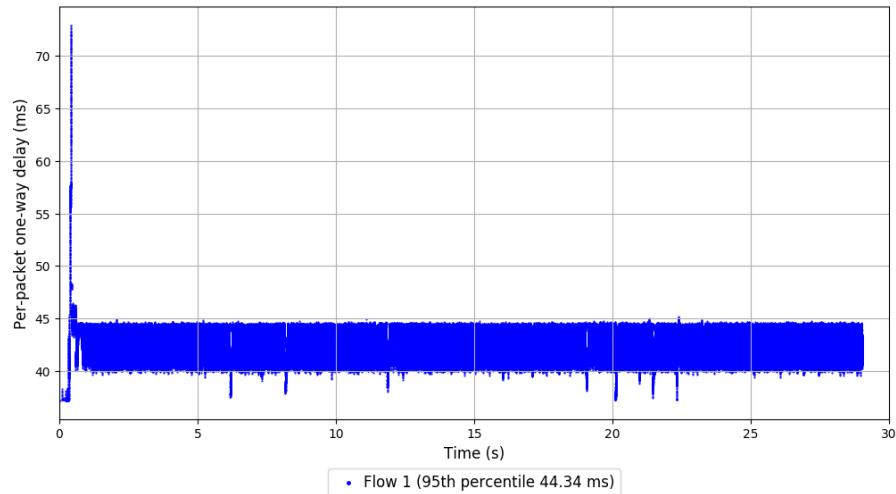
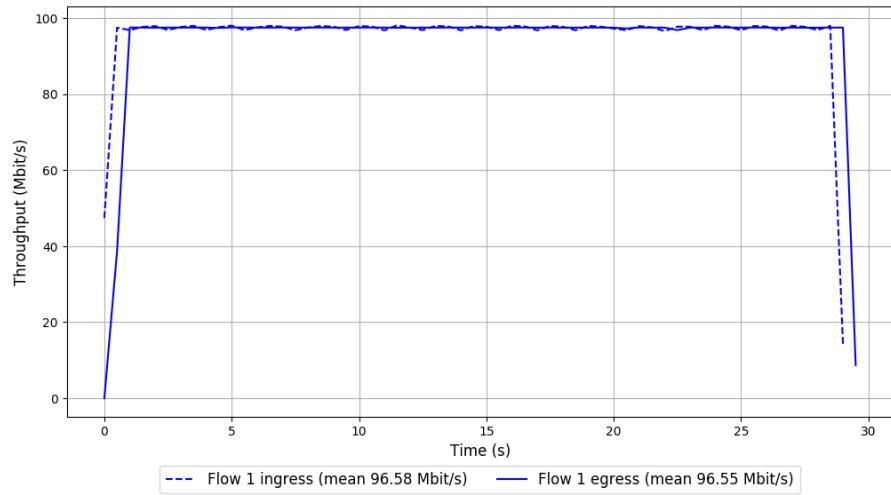


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-02-11 22:48:57
End at: 2019-02-11 22:49:27
Local clock offset: -0.584 ms
Remote clock offset: -5.44 ms

# Below is generated by plot.py at 2019-02-12 00:41:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 44.338 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 44.338 ms
Loss rate: 0.25%
```

Run 1: Report of Indigo-MusesC3 — Data Link

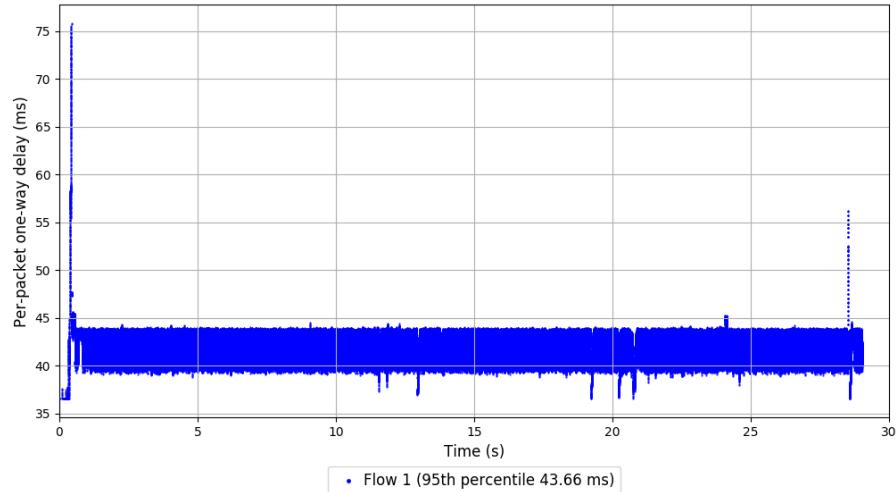
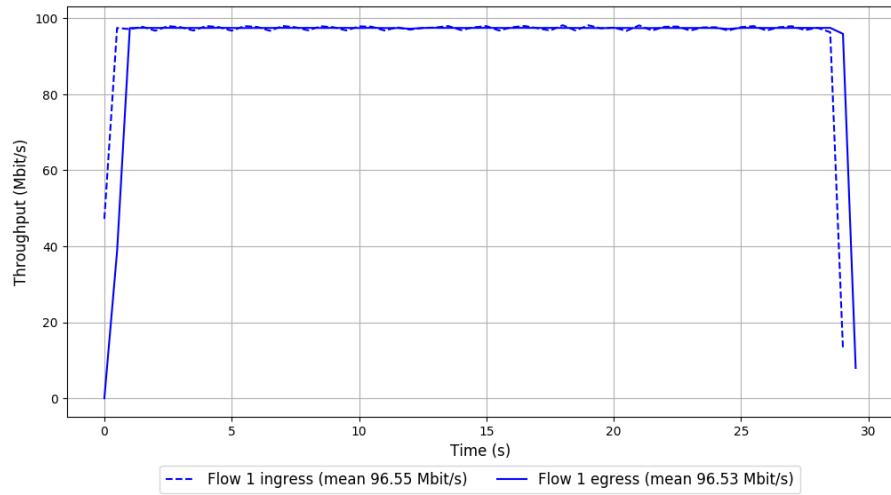


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-02-11 23:13:39
End at: 2019-02-11 23:14:09
Local clock offset: -0.011 ms
Remote clock offset: -4.032 ms

# Below is generated by plot.py at 2019-02-12 00:42:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 43.655 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 43.655 ms
Loss rate: 0.24%
```

Run 2: Report of Indigo-MusesC3 — Data Link

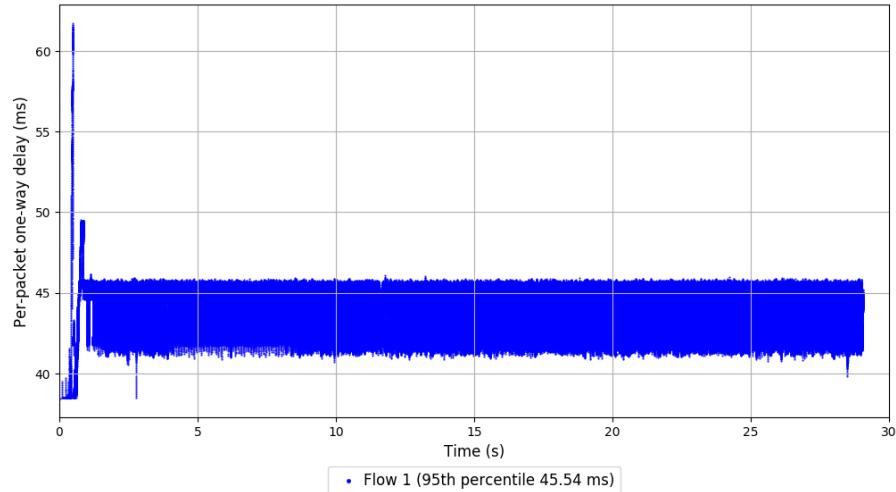
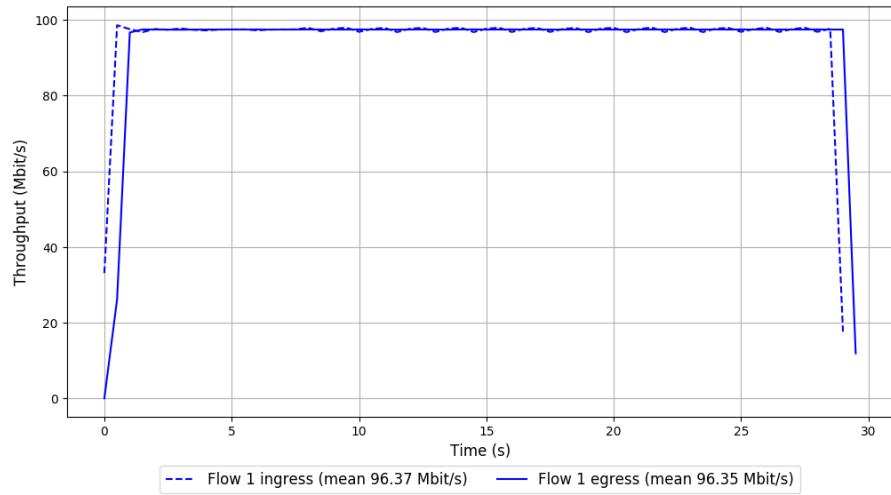


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-02-11 23:38:25
End at: 2019-02-11 23:38:55
Local clock offset: 0.342 ms
Remote clock offset: -5.277 ms

# Below is generated by plot.py at 2019-02-12 00:42:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 45.544 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 45.544 ms
Loss rate: 0.25%
```

Run 3: Report of Indigo-MusesC3 — Data Link

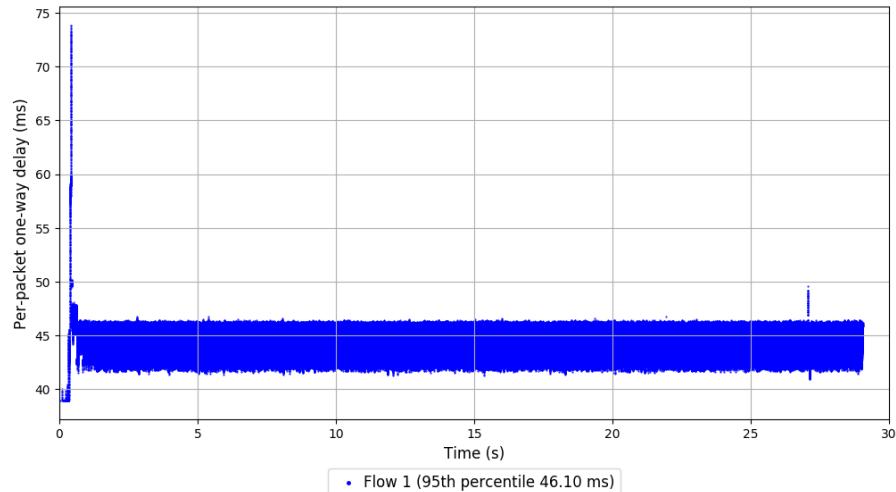
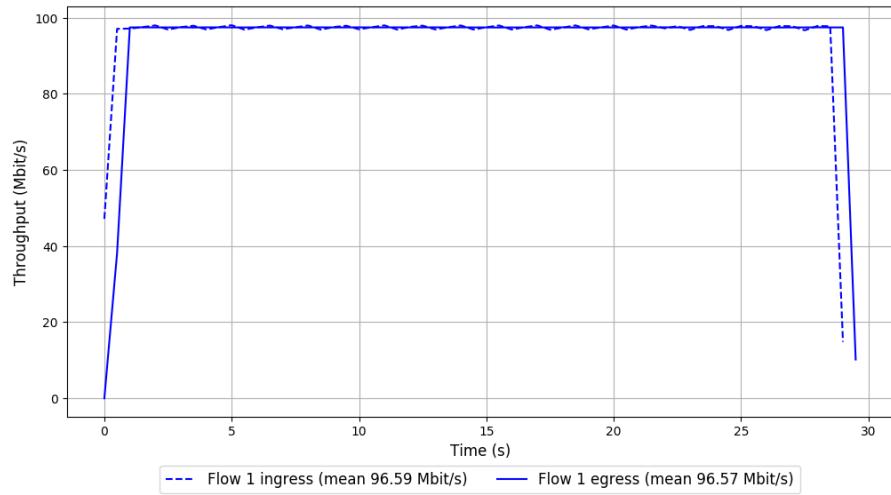


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-02-12 00:03:05
End at: 2019-02-12 00:03:35
Local clock offset: 0.205 ms
Remote clock offset: -5.618 ms

# Below is generated by plot.py at 2019-02-12 00:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 46.096 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 46.096 ms
Loss rate: 0.24%
```

Run 4: Report of Indigo-MusesC3 — Data Link

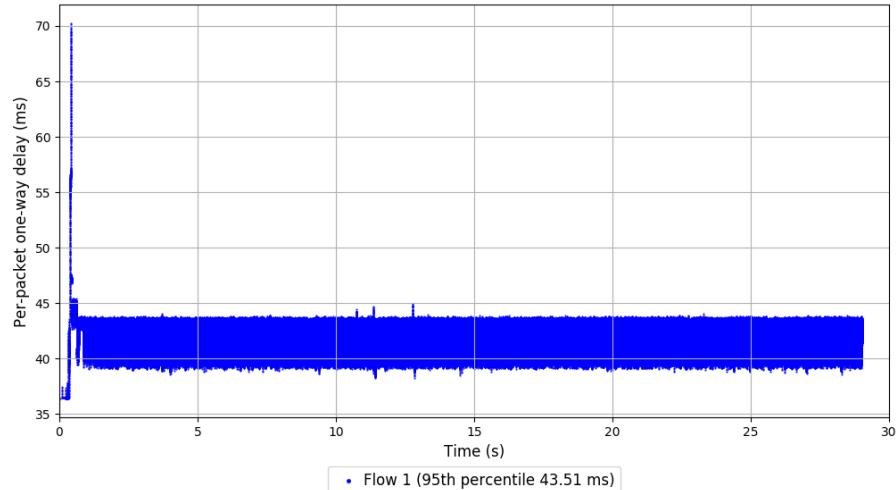
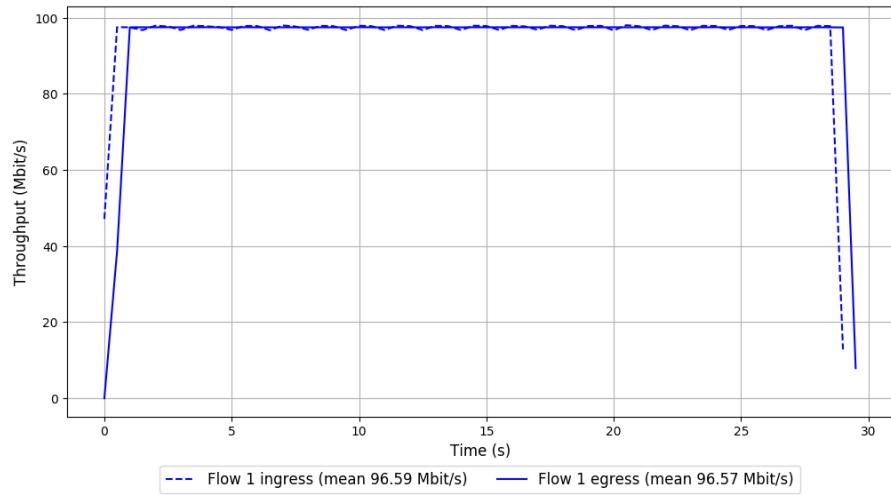


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-02-12 00:27:54
End at: 2019-02-12 00:28:24
Local clock offset: -3.356 ms
Remote clock offset: -2.945 ms

# Below is generated by plot.py at 2019-02-12 00:42:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 43.514 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 43.514 ms
Loss rate: 0.24%
```

Run 5: Report of Indigo-MusesC3 — Data Link

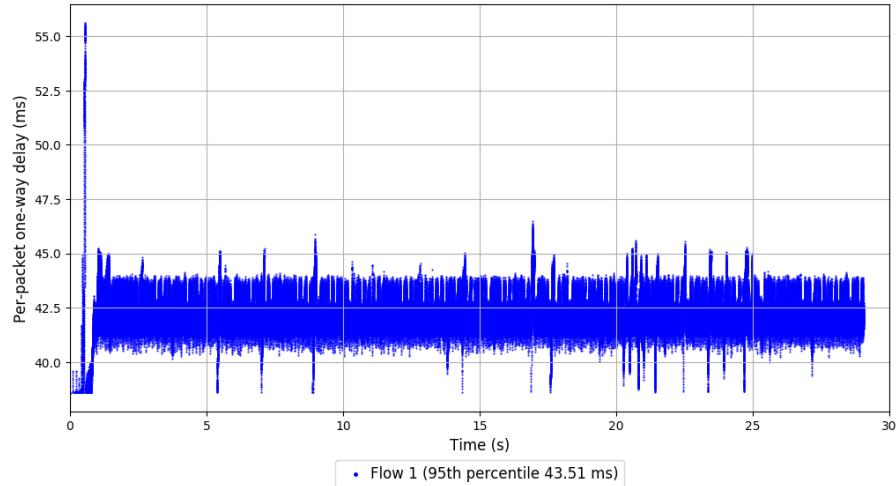
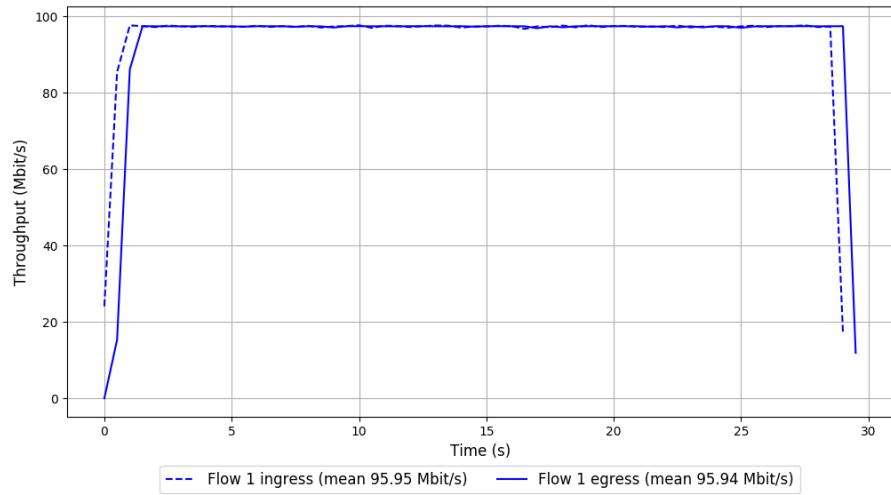


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-02-11 22:51:21
End at: 2019-02-11 22:51:51
Local clock offset: -0.628 ms
Remote clock offset: -6.753 ms

# Below is generated by plot.py at 2019-02-12 00:42:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 43.507 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 43.507 ms
Loss rate: 0.24%
```

Run 1: Report of Indigo-MusesC5 — Data Link

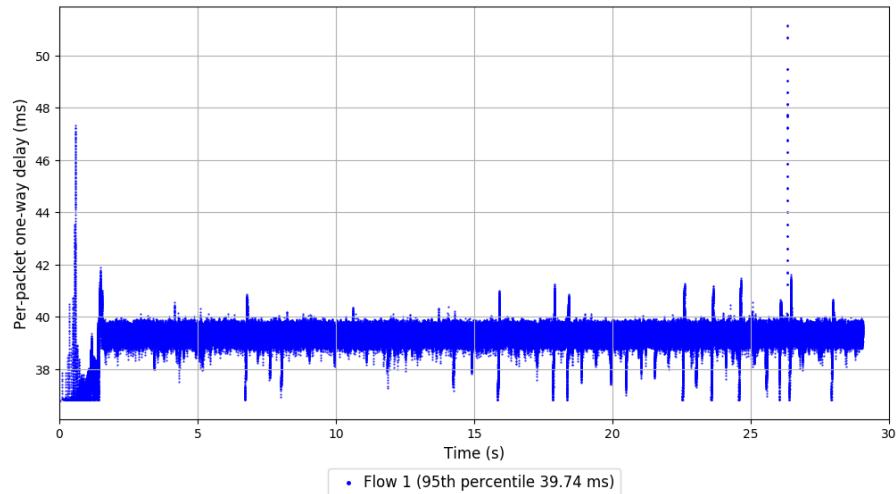
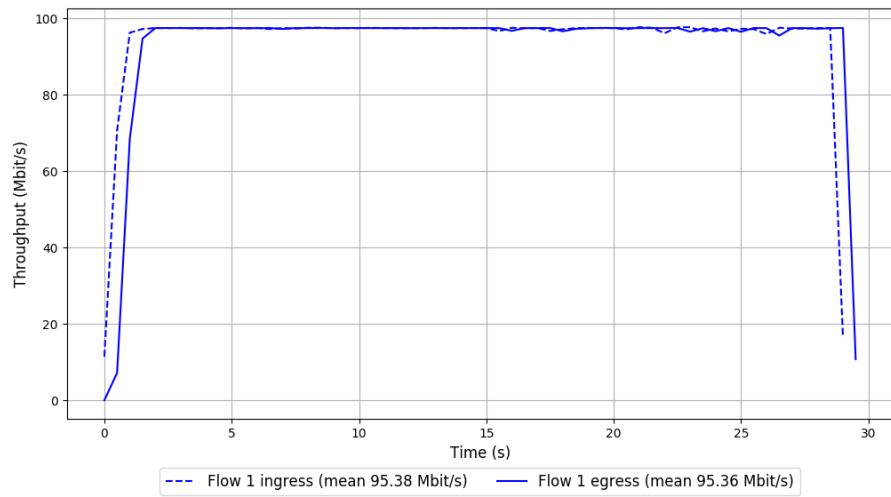


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-02-11 23:16:06
End at: 2019-02-11 23:16:36
Local clock offset: 0.092 ms
Remote clock offset: -4.2 ms

# Below is generated by plot.py at 2019-02-12 00:42:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 39.737 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 39.737 ms
Loss rate: 0.24%
```

Run 2: Report of Indigo-MusesC5 — Data Link

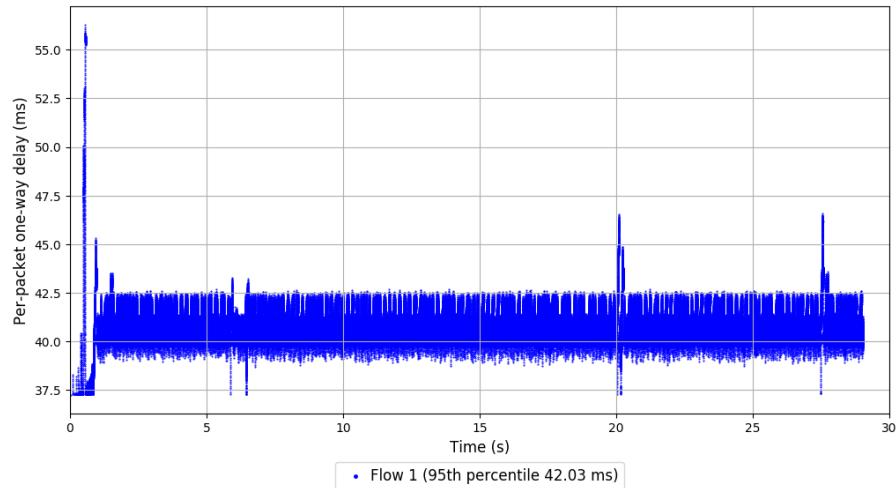
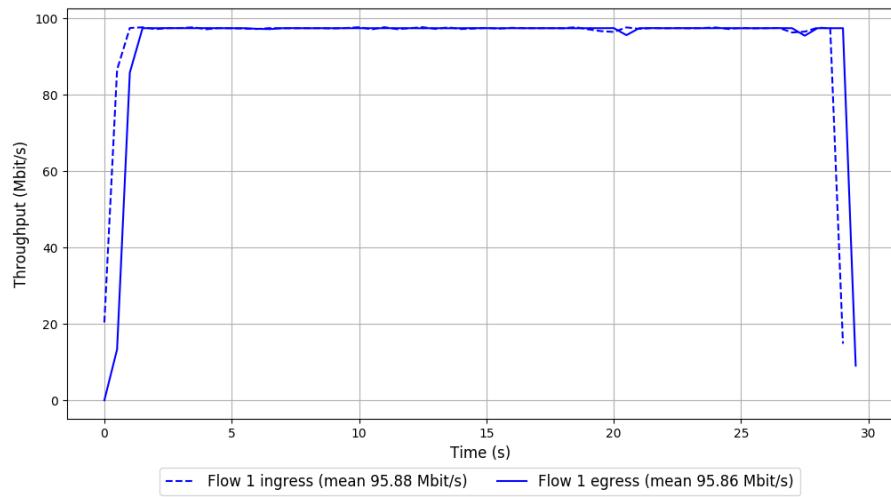


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-02-11 23:40:48
End at: 2019-02-11 23:41:18
Local clock offset: 0.292 ms
Remote clock offset: -4.066 ms

# Below is generated by plot.py at 2019-02-12 00:42:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 42.028 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 42.028 ms
Loss rate: 0.25%
```

Run 3: Report of Indigo-MusesC5 — Data Link

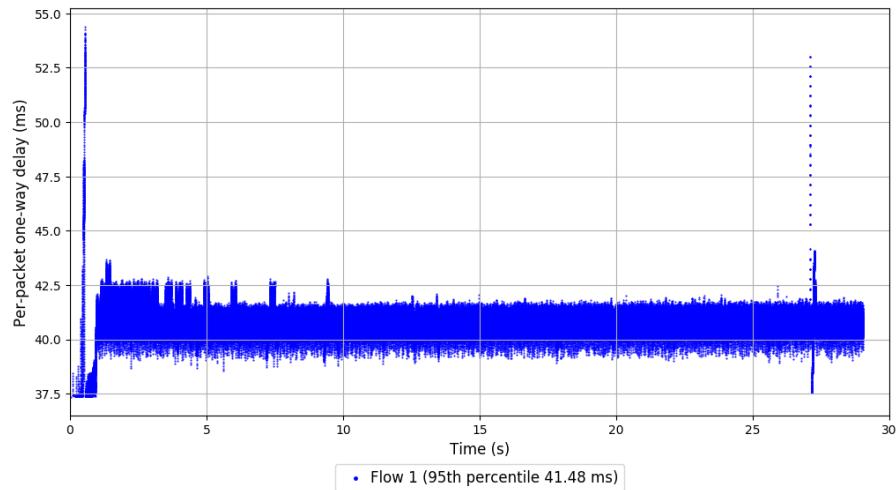
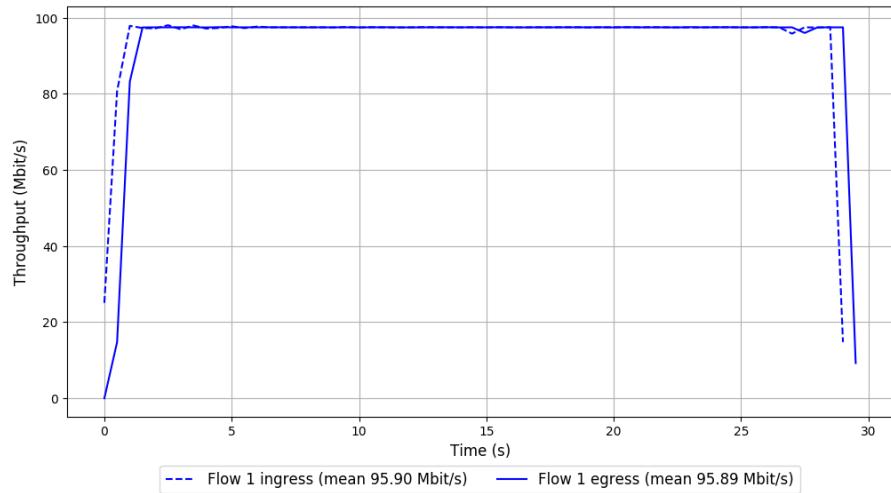


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-02-12 00:05:39
End at: 2019-02-12 00:06:09
Local clock offset: -0.207 ms
Remote clock offset: -3.789 ms

# Below is generated by plot.py at 2019-02-12 00:42:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 41.476 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 41.476 ms
Loss rate: 0.24%
```

Run 4: Report of Indigo-MusesC5 — Data Link

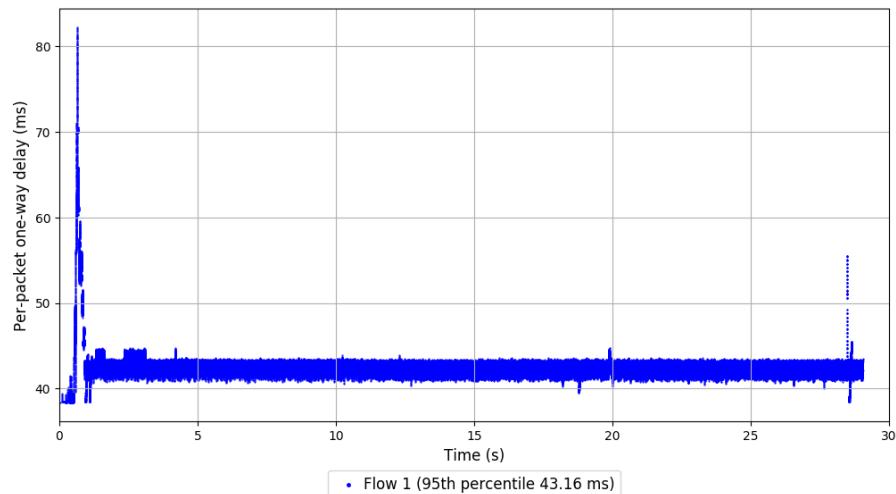
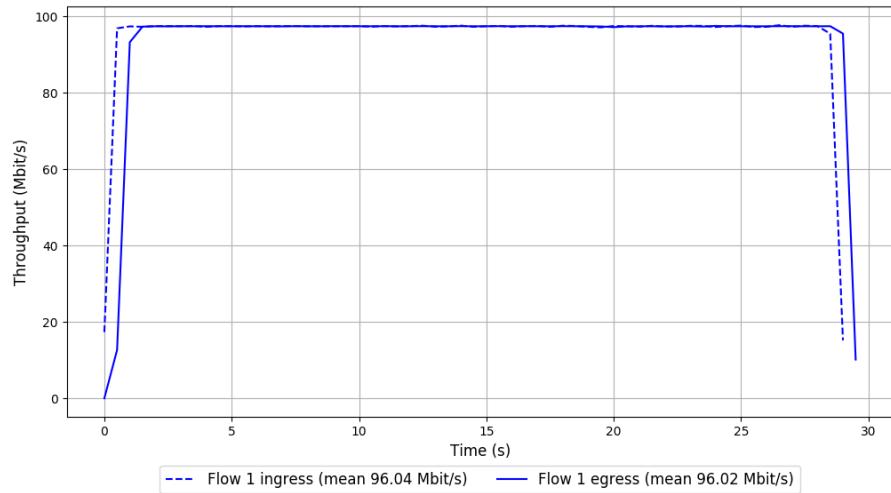


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-02-12 00:30:29
End at: 2019-02-12 00:30:59
Local clock offset: -3.521 ms
Remote clock offset: -5.022 ms

# Below is generated by plot.py at 2019-02-12 00:43:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 43.158 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 43.158 ms
Loss rate: 0.24%
```

Run 5: Report of Indigo-MusesC5 — Data Link

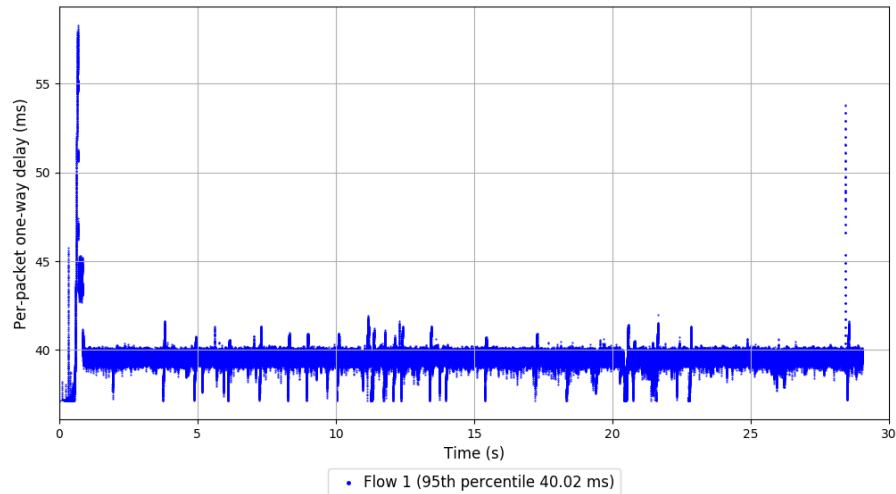
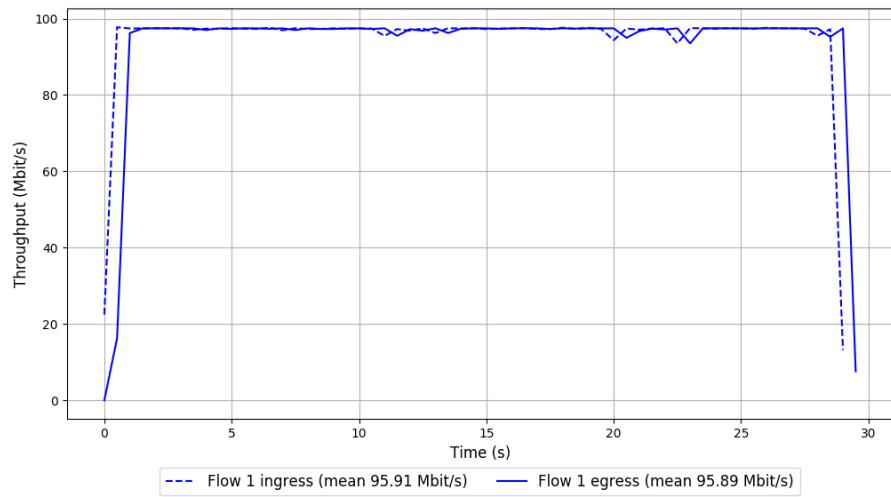


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-02-11 22:33:31
End at: 2019-02-11 22:34:01
Local clock offset: 0.027 ms
Remote clock offset: -5.736 ms

# Below is generated by plot.py at 2019-02-12 00:43:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 40.019 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 40.019 ms
Loss rate: 0.24%
```

Run 1: Report of Indigo-MusesD — Data Link

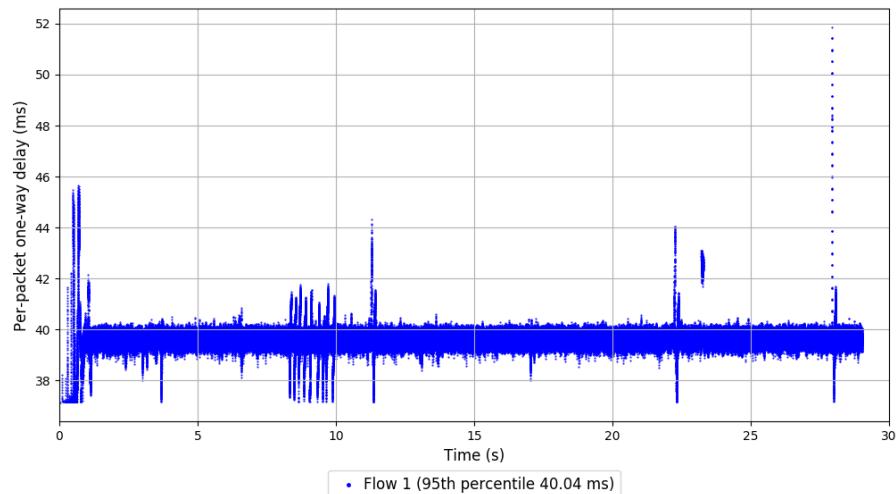
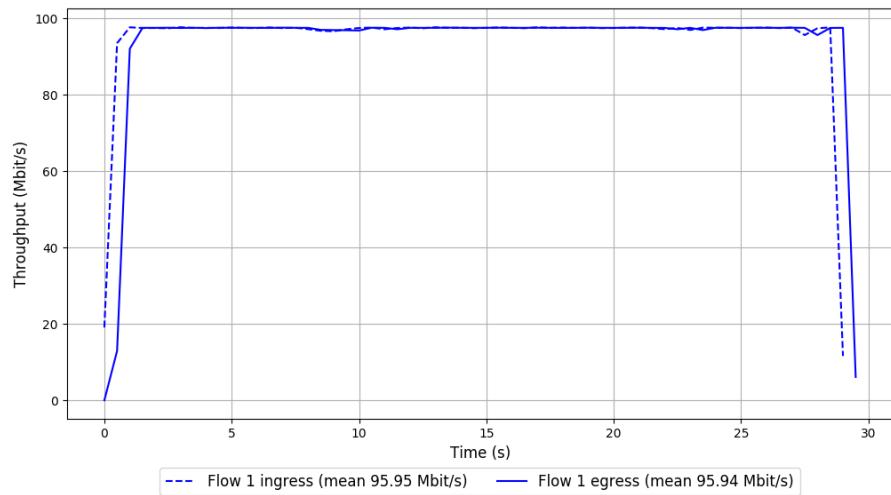


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-02-11 22:58:28
End at: 2019-02-11 22:58:58
Local clock offset: -0.748 ms
Remote clock offset: -4.912 ms

# Below is generated by plot.py at 2019-02-12 00:43:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 40.044 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 40.044 ms
Loss rate: 0.24%
```

Run 2: Report of Indigo-MusesD — Data Link

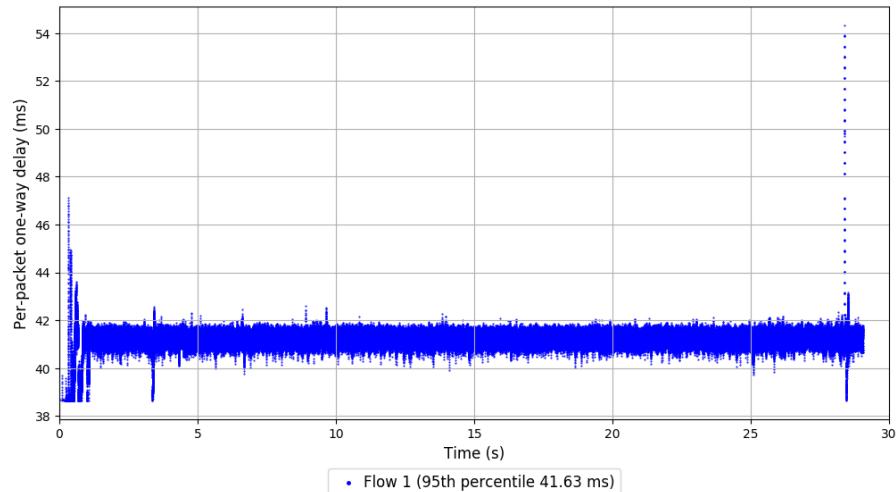
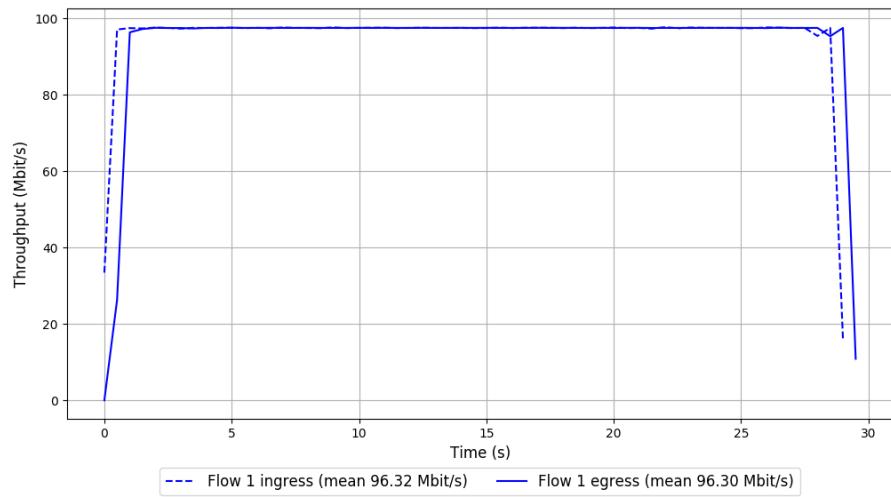


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-02-11 23:23:09
End at: 2019-02-11 23:23:39
Local clock offset: 0.292 ms
Remote clock offset: -5.731 ms

# Below is generated by plot.py at 2019-02-12 00:43:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 41.634 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 41.634 ms
Loss rate: 0.24%
```

Run 3: Report of Indigo-MusesD — Data Link

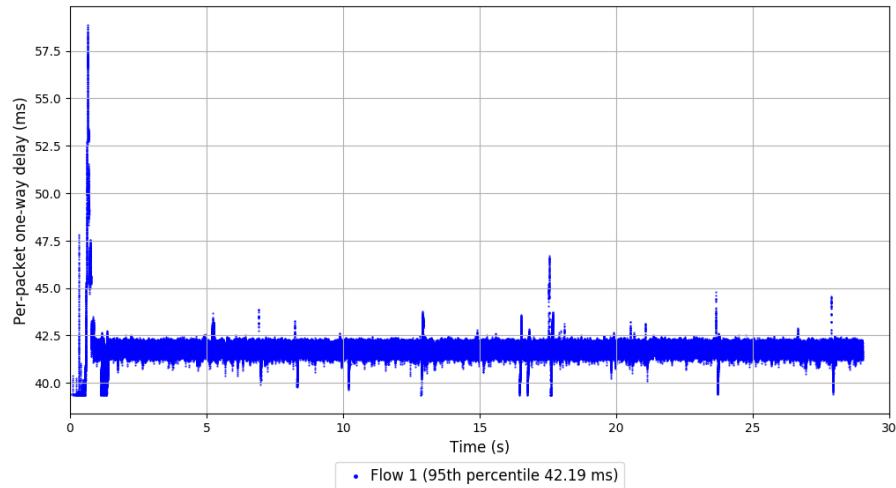
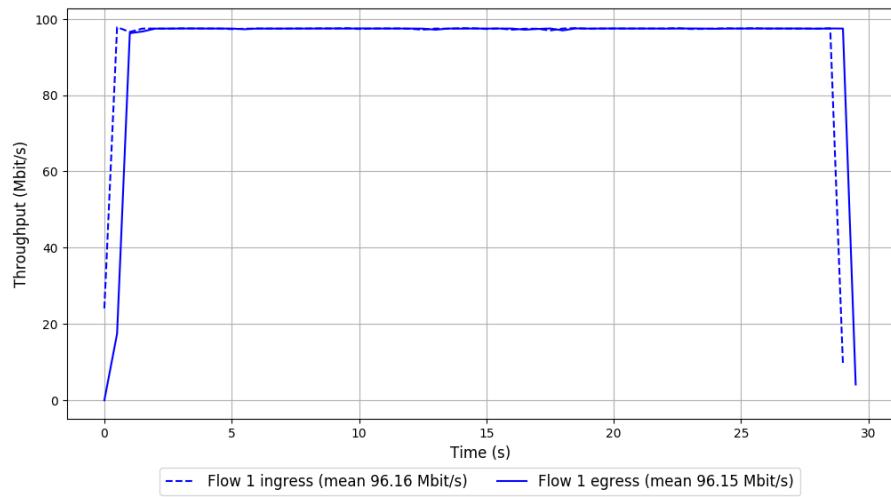


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-02-11 23:47:52
End at: 2019-02-11 23:48:22
Local clock offset: 0.219 ms
Remote clock offset: -5.964 ms

# Below is generated by plot.py at 2019-02-12 00:43:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 42.186 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 42.186 ms
Loss rate: 0.24%
```

Run 4: Report of Indigo-MusesD — Data Link

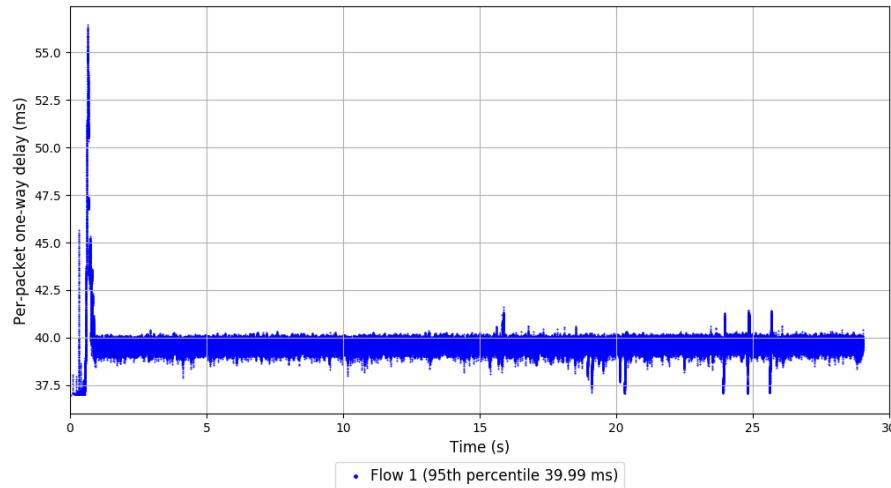
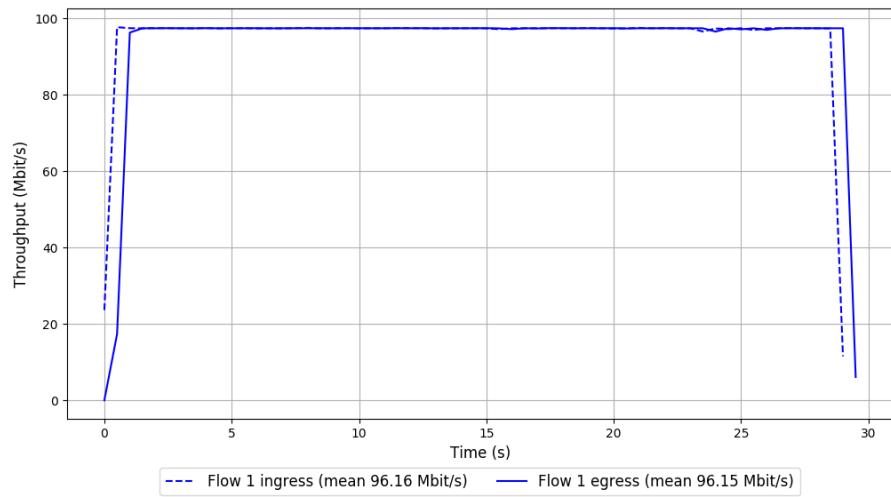


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-02-12 00:12:42
End at: 2019-02-12 00:13:12
Local clock offset: -1.859 ms
Remote clock offset: -3.41 ms

# Below is generated by plot.py at 2019-02-12 00:43:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 39.989 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 39.989 ms
Loss rate: 0.23%
```

Run 5: Report of Indigo-MusesD — Data Link

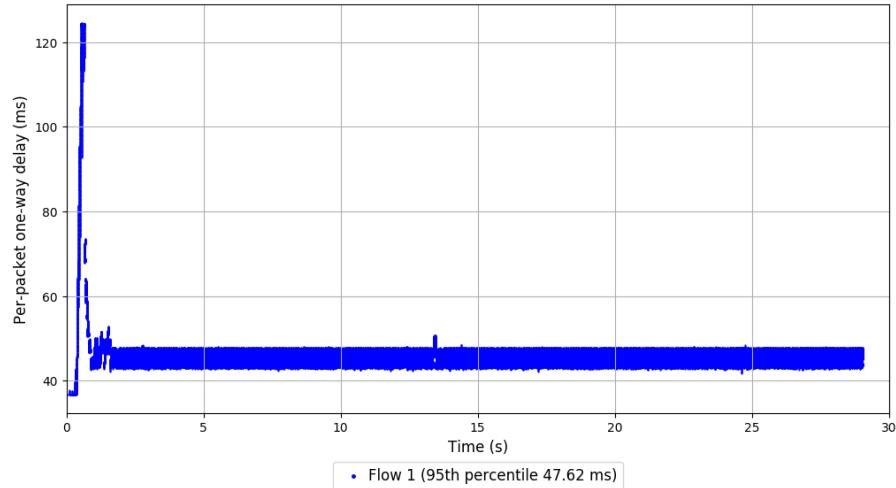
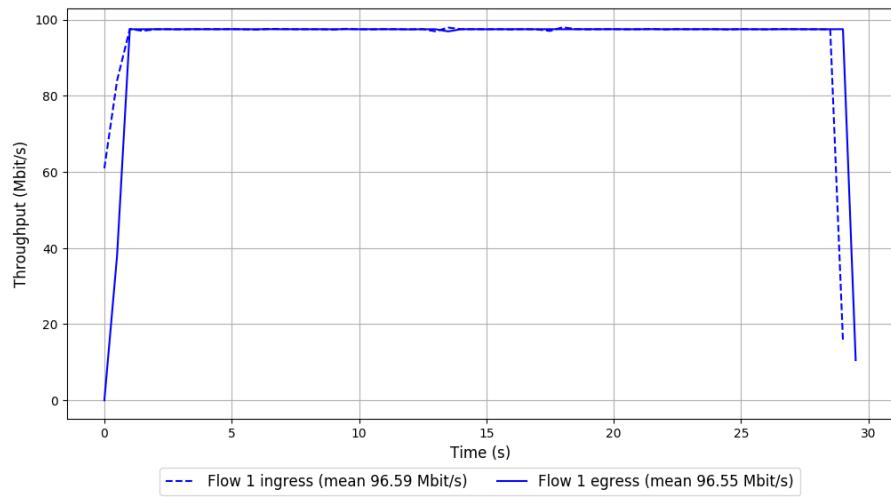


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-02-11 22:47:46
End at: 2019-02-11 22:48:16
Local clock offset: -0.558 ms
Remote clock offset: -5.023 ms

# Below is generated by plot.py at 2019-02-12 00:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 47.622 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 47.622 ms
Loss rate: 0.26%
```

Run 1: Report of Indigo-MusesT — Data Link

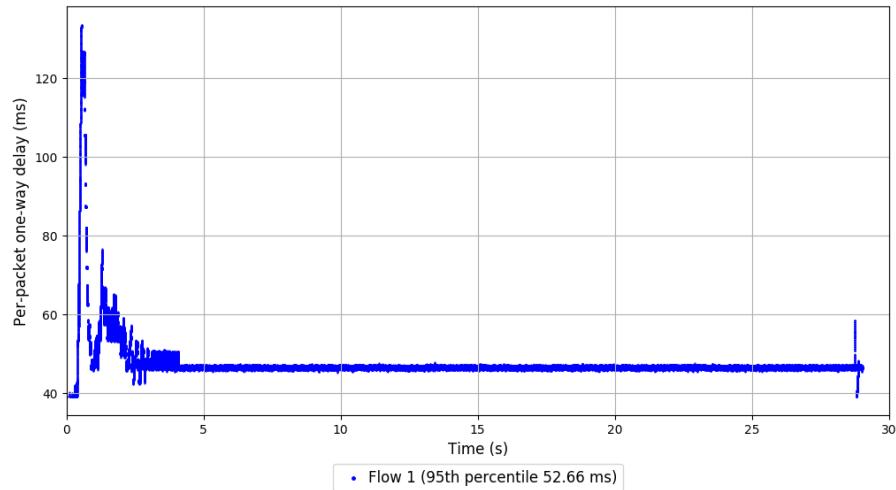
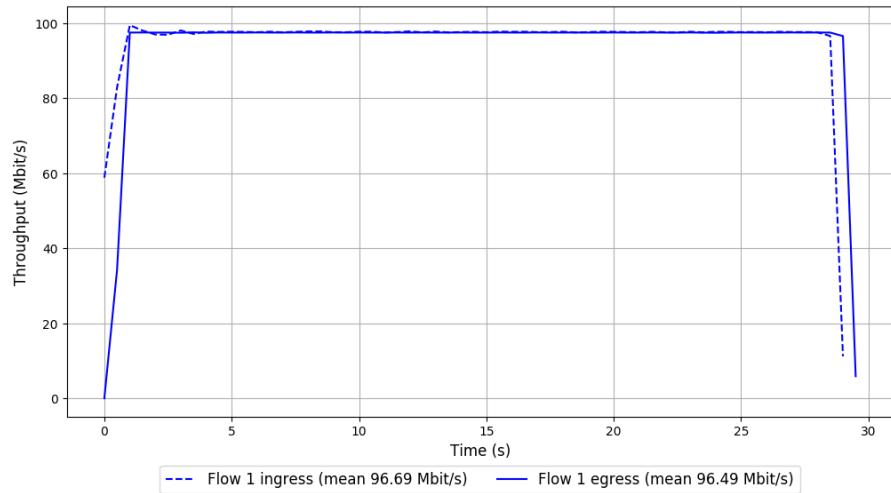


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-02-11 23:12:27
End at: 2019-02-11 23:12:57
Local clock offset: -0.074 ms
Remote clock offset: -6.588 ms

# Below is generated by plot.py at 2019-02-12 00:44:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 52.658 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 52.658 ms
Loss rate: 0.44%
```

Run 2: Report of Indigo-MusesT — Data Link

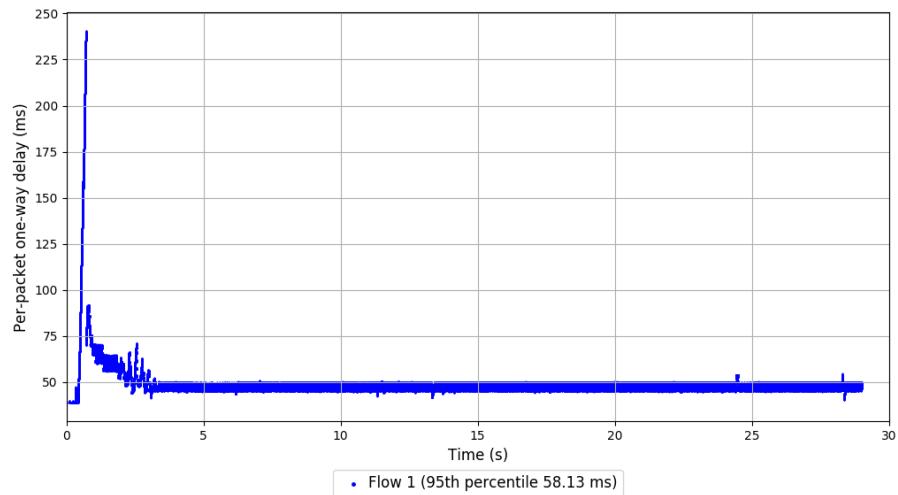
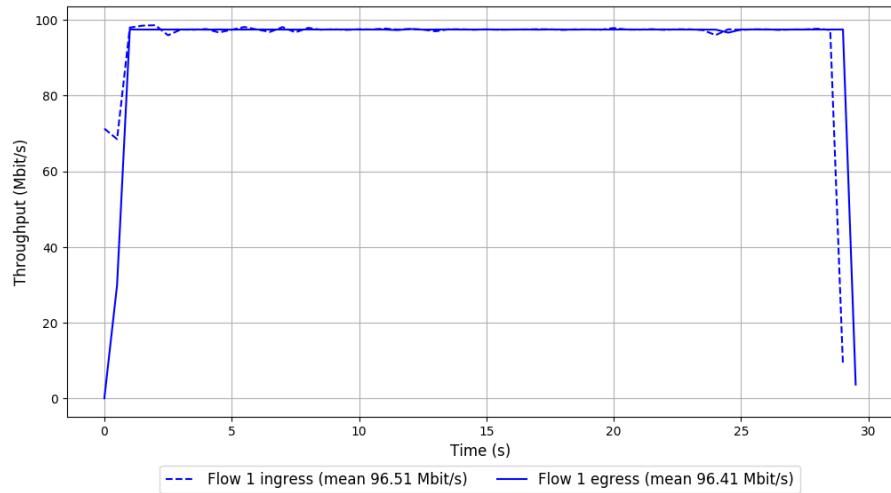


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-02-11 23:37:15
End at: 2019-02-11 23:37:45
Local clock offset: 0.366 ms
Remote clock offset: -5.701 ms

# Below is generated by plot.py at 2019-02-12 00:44:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.41 Mbit/s
95th percentile per-packet one-way delay: 58.130 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 96.41 Mbit/s
95th percentile per-packet one-way delay: 58.130 ms
Loss rate: 0.32%
```

Run 3: Report of Indigo-MusesT — Data Link

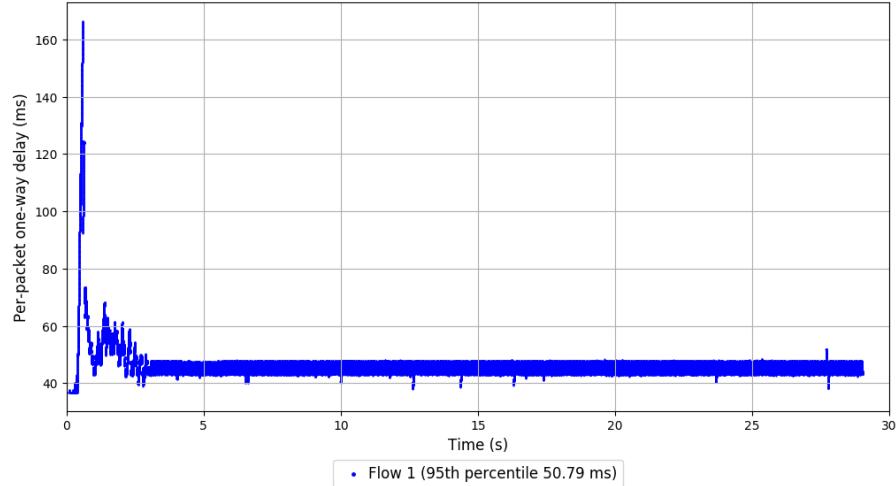
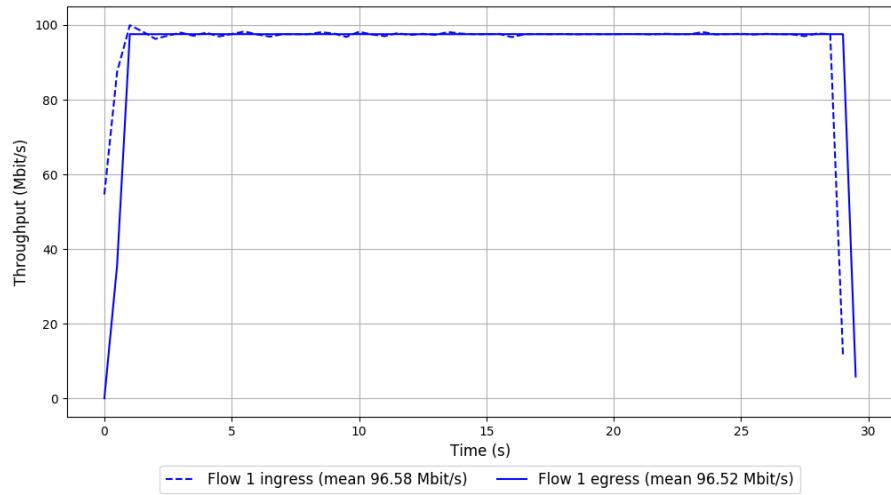


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-02-12 00:01:52
End at: 2019-02-12 00:02:22
Local clock offset: 0.217 ms
Remote clock offset: -3.365 ms

# Below is generated by plot.py at 2019-02-12 00:44:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 50.786 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 50.786 ms
Loss rate: 0.29%
```

Run 4: Report of Indigo-MusesT — Data Link

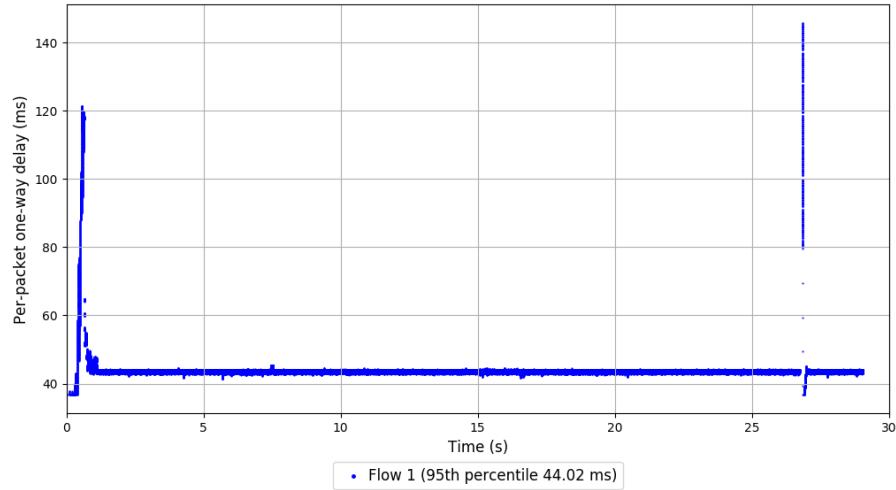
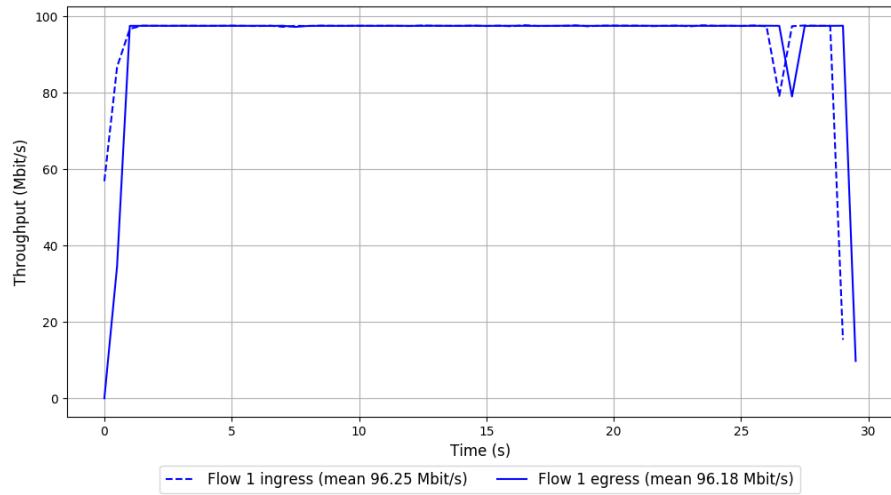


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-02-12 00:26:35
End at: 2019-02-12 00:27:05
Local clock offset: -3.258 ms
Remote clock offset: -3.215 ms

# Below is generated by plot.py at 2019-02-12 00:44:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 44.022 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 44.022 ms
Loss rate: 0.29%
```

Run 5: Report of Indigo-MusesT — Data Link

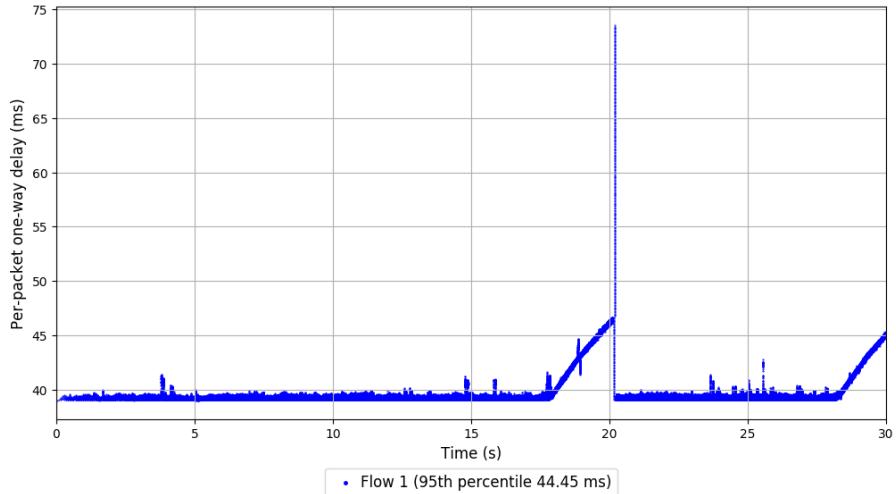
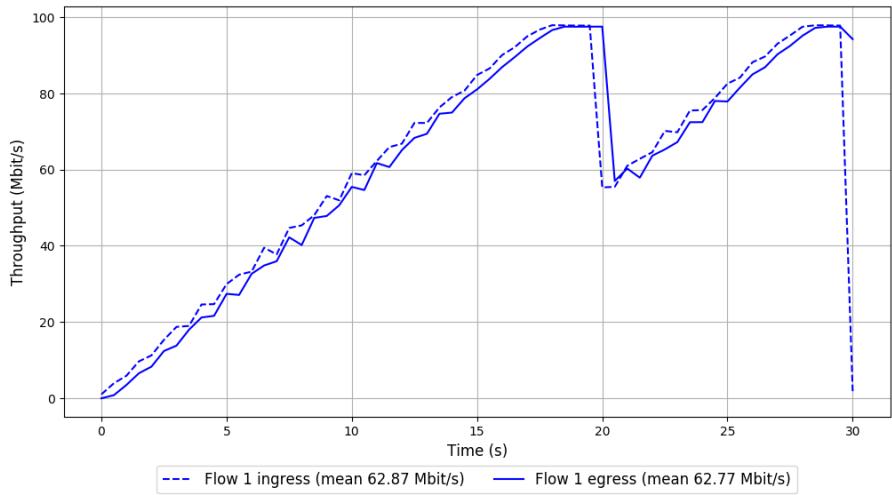


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-02-11 22:37:00
End at: 2019-02-11 22:37:30
Local clock offset: -0.167 ms
Remote clock offset: -7.65 ms

# Below is generated by plot.py at 2019-02-12 00:44:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.77 Mbit/s
95th percentile per-packet one-way delay: 44.454 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 62.77 Mbit/s
95th percentile per-packet one-way delay: 44.454 ms
Loss rate: 0.37%
```

Run 1: Report of LEDBAT — Data Link

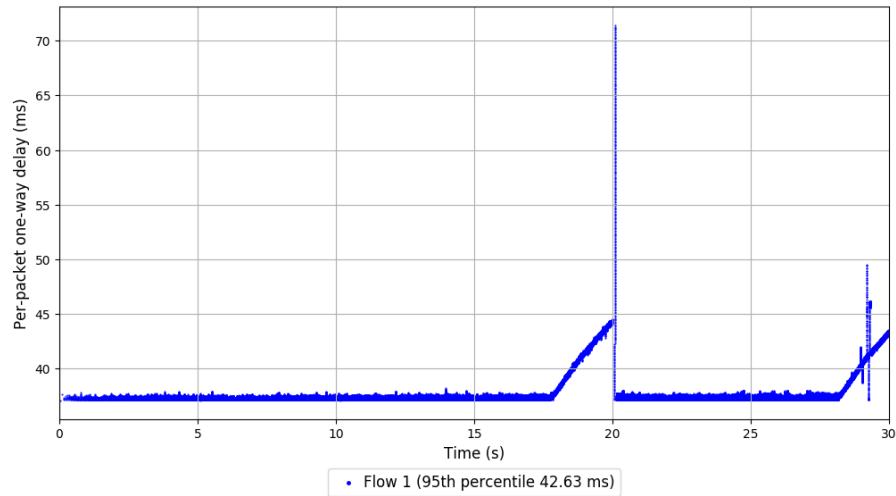
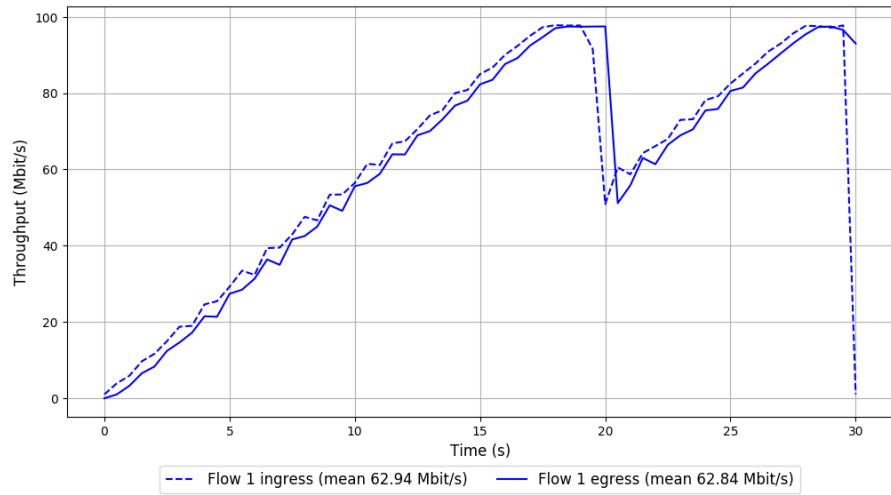


Run 2: Statistics of LEDBAT

```
Start at: 2019-02-11 23:01:57
End at: 2019-02-11 23:02:27
Local clock offset: -0.785 ms
Remote clock offset: -4.815 ms

# Below is generated by plot.py at 2019-02-12 00:44:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.84 Mbit/s
95th percentile per-packet one-way delay: 42.635 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 62.84 Mbit/s
95th percentile per-packet one-way delay: 42.635 ms
Loss rate: 0.37%
```

Run 2: Report of LEDBAT — Data Link

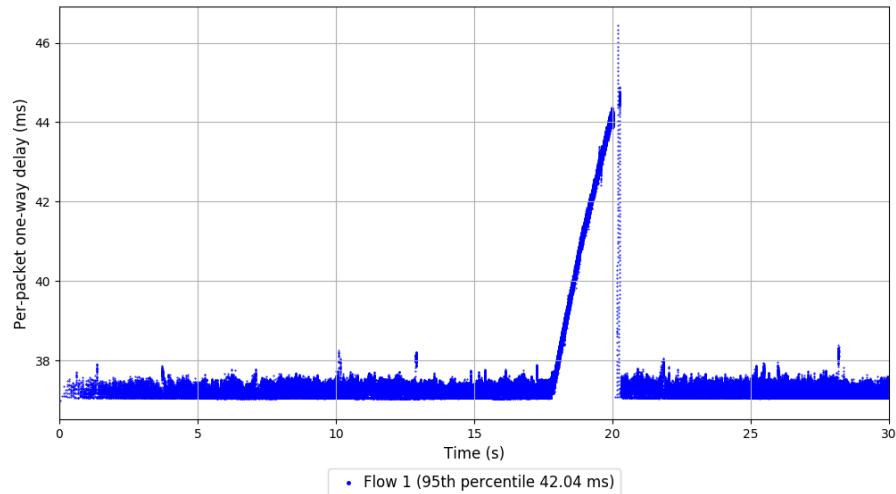
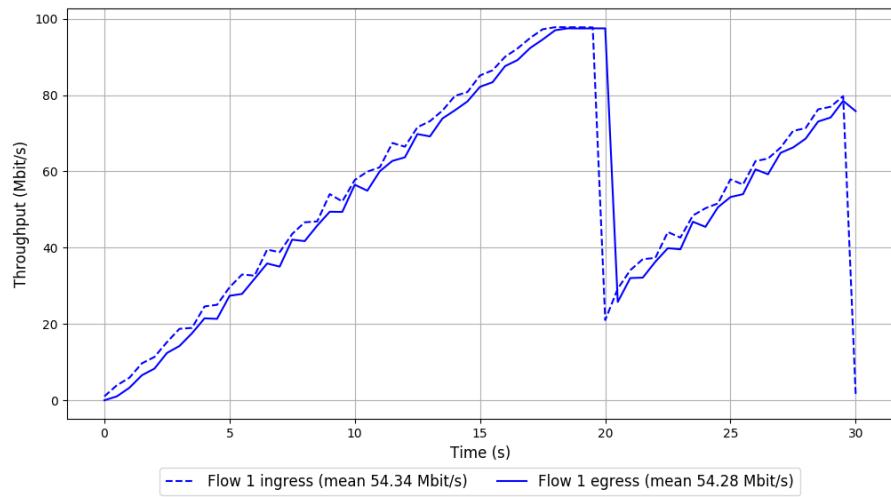


Run 3: Statistics of LEDBAT

```
Start at: 2019-02-11 23:26:38
End at: 2019-02-11 23:27:08
Local clock offset: 0.349 ms
Remote clock offset: -4.056 ms

# Below is generated by plot.py at 2019-02-12 00:44:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.28 Mbit/s
95th percentile per-packet one-way delay: 42.044 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 54.28 Mbit/s
95th percentile per-packet one-way delay: 42.044 ms
Loss rate: 0.33%
```

Run 3: Report of LEDBAT — Data Link

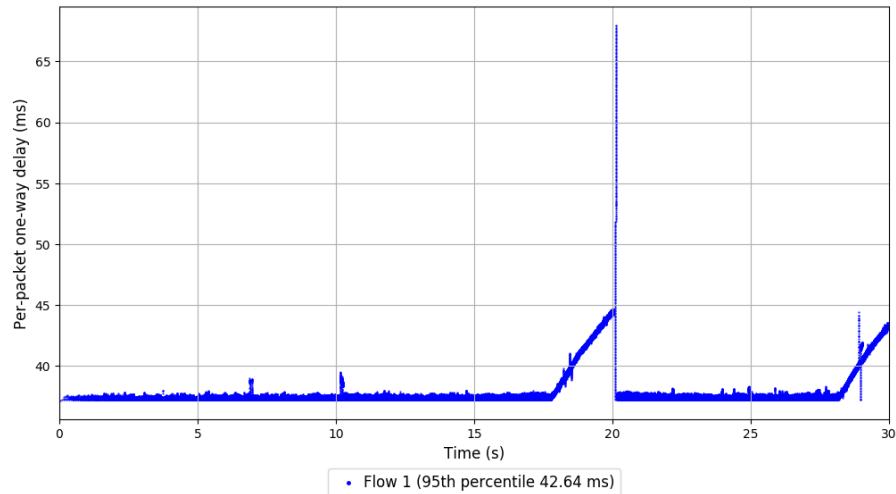
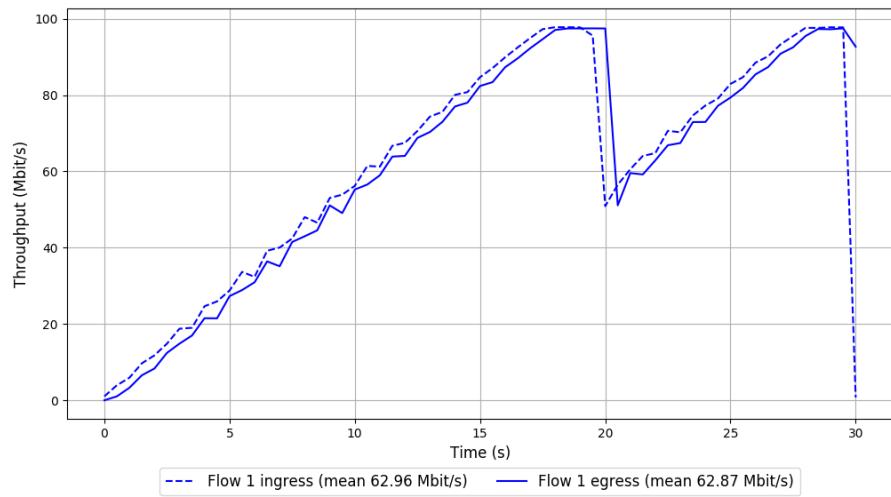


Run 4: Statistics of LEDBAT

```
Start at: 2019-02-11 23:51:21
End at: 2019-02-11 23:51:51
Local clock offset: 0.226 ms
Remote clock offset: -3.842 ms

# Below is generated by plot.py at 2019-02-12 00:44:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.87 Mbit/s
95th percentile per-packet one-way delay: 42.642 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 62.87 Mbit/s
95th percentile per-packet one-way delay: 42.642 ms
Loss rate: 0.37%
```

Run 4: Report of LEDBAT — Data Link

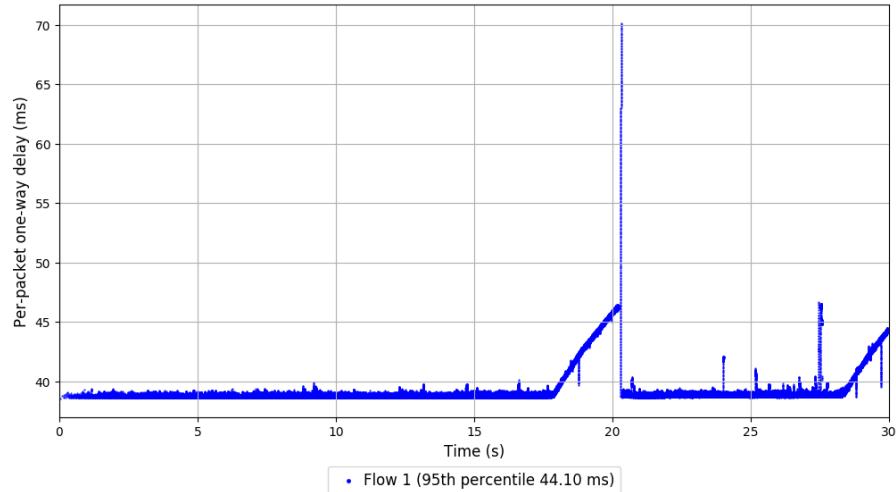
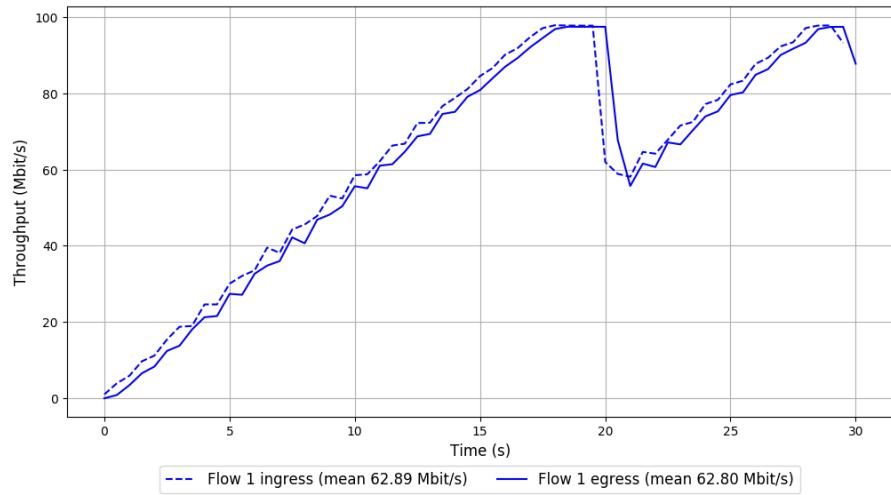


Run 5: Statistics of LEDBAT

```
Start at: 2019-02-12 00:16:10
End at: 2019-02-12 00:16:40
Local clock offset: -2.371 ms
Remote clock offset: -5.024 ms

# Below is generated by plot.py at 2019-02-12 00:44:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.80 Mbit/s
95th percentile per-packet one-way delay: 44.104 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 62.80 Mbit/s
95th percentile per-packet one-way delay: 44.104 ms
Loss rate: 0.37%
```

Run 5: Report of LEDBAT — Data Link

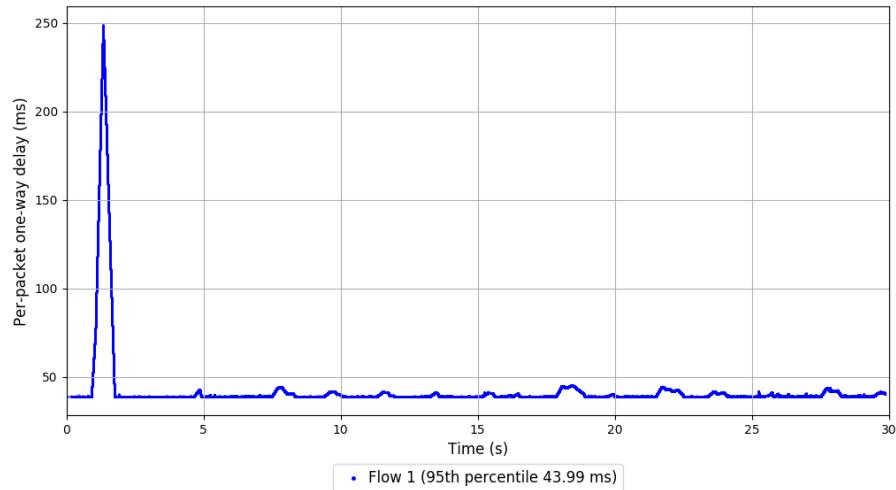
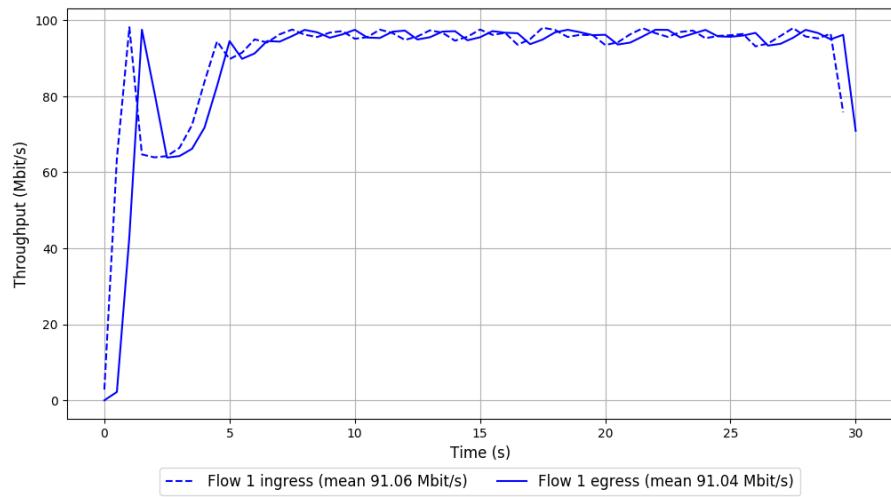


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-02-11 22:53:40
End at: 2019-02-11 22:54:10
Local clock offset: -0.68 ms
Remote clock offset: -6.906 ms

# Below is generated by plot.py at 2019-02-12 00:45:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.04 Mbit/s
95th percentile per-packet one-way delay: 43.988 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 91.04 Mbit/s
95th percentile per-packet one-way delay: 43.988 ms
Loss rate: 0.24%
```

Run 1: Report of PCC-Allegro — Data Link

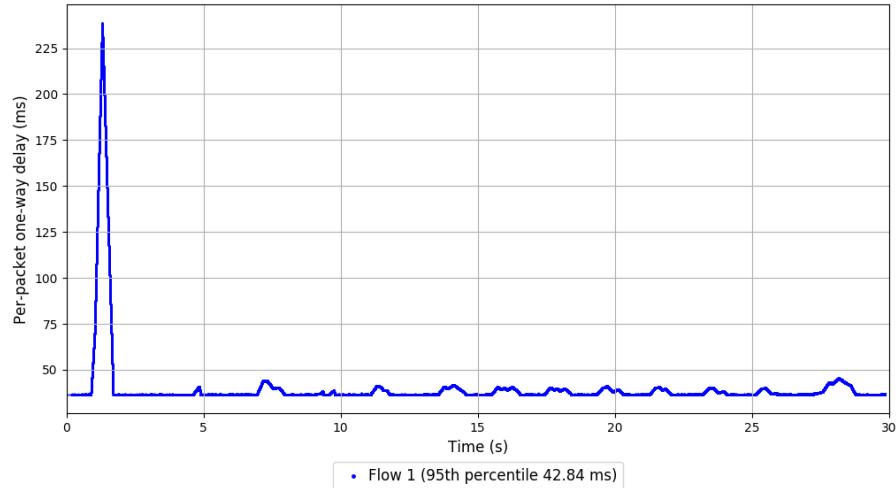
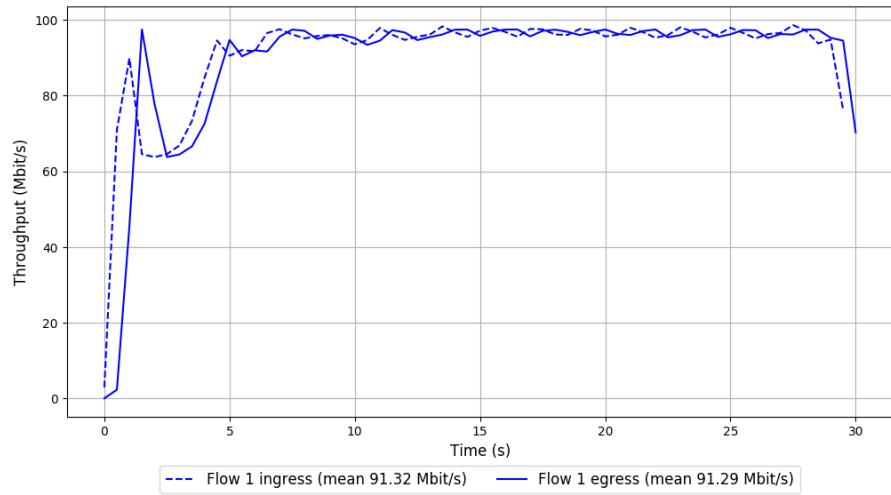


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-02-11 23:18:25
End at: 2019-02-11 23:18:55
Local clock offset: 0.173 ms
Remote clock offset: -3.654 ms

# Below is generated by plot.py at 2019-02-12 00:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.29 Mbit/s
95th percentile per-packet one-way delay: 42.844 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 91.29 Mbit/s
95th percentile per-packet one-way delay: 42.844 ms
Loss rate: 0.25%
```

Run 2: Report of PCC-Allegro — Data Link

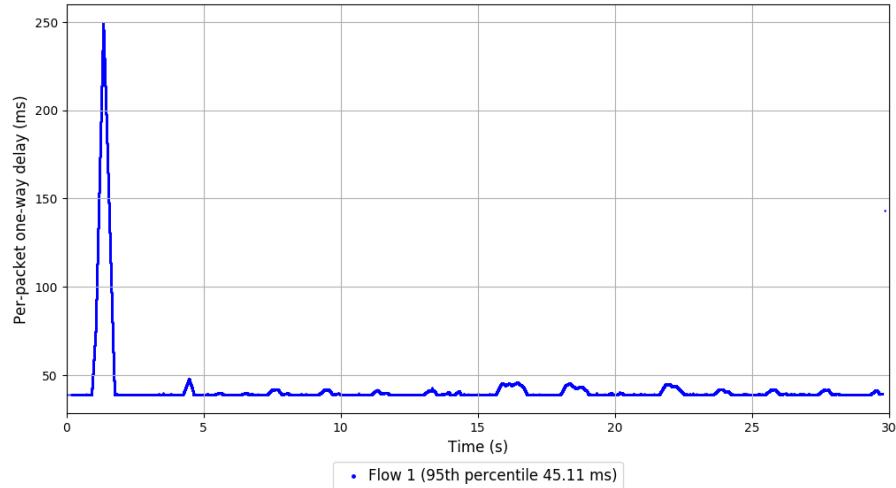
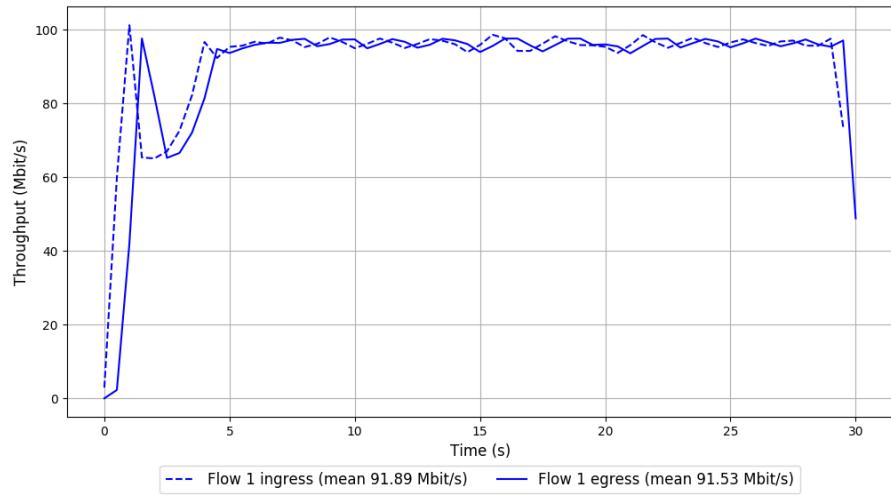


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-02-11 23:43:08
End at: 2019-02-11 23:43:38
Local clock offset: 0.278 ms
Remote clock offset: -6.042 ms

# Below is generated by plot.py at 2019-02-12 00:45:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.53 Mbit/s
95th percentile per-packet one-way delay: 45.111 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 91.53 Mbit/s
95th percentile per-packet one-way delay: 45.111 ms
Loss rate: 0.61%
```

Run 3: Report of PCC-Allegro — Data Link

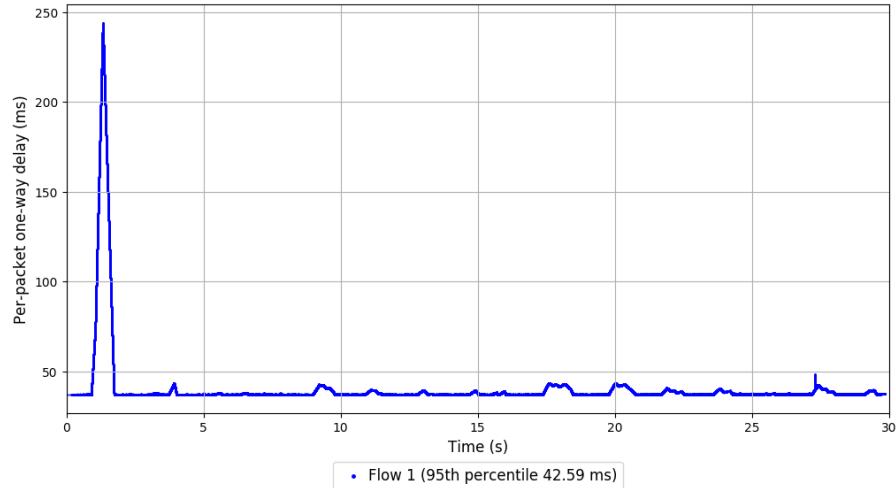
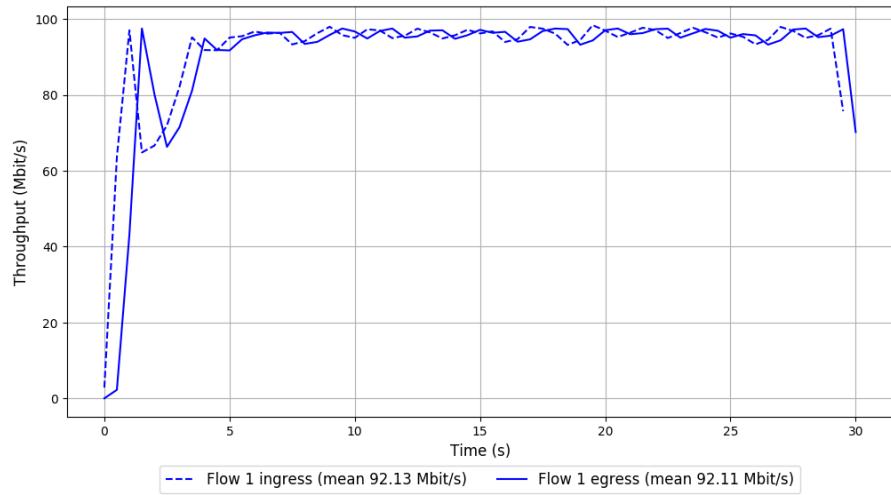


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-02-12 00:07:58
End at: 2019-02-12 00:08:28
Local clock offset: -0.923 ms
Remote clock offset: -3.79 ms

# Below is generated by plot.py at 2019-02-12 00:45:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.11 Mbit/s
95th percentile per-packet one-way delay: 42.592 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 92.11 Mbit/s
95th percentile per-packet one-way delay: 42.592 ms
Loss rate: 0.24%
```

Run 4: Report of PCC-Allegro — Data Link

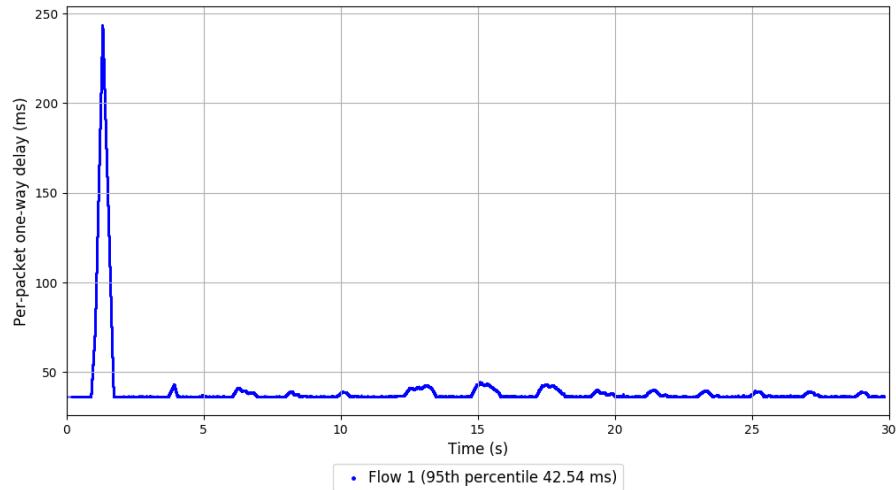
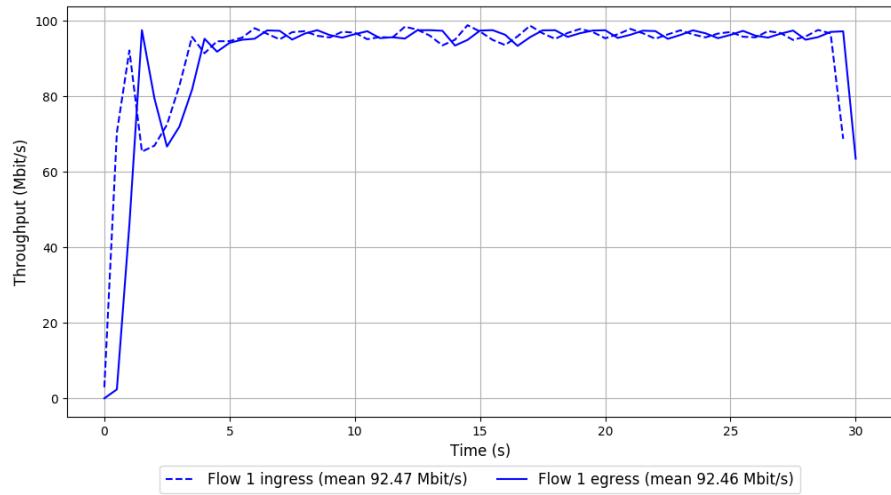


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-02-12 00:32:55
End at: 2019-02-12 00:33:25
Local clock offset: -3.663 ms
Remote clock offset: -3.01 ms

# Below is generated by plot.py at 2019-02-12 00:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.46 Mbit/s
95th percentile per-packet one-way delay: 42.542 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 92.46 Mbit/s
95th percentile per-packet one-way delay: 42.542 ms
Loss rate: 0.24%
```

Run 5: Report of PCC-Allegro — Data Link

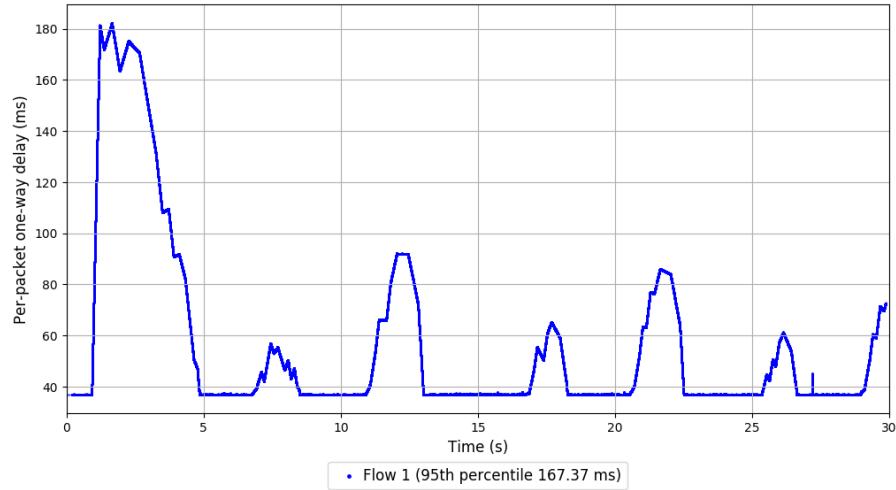
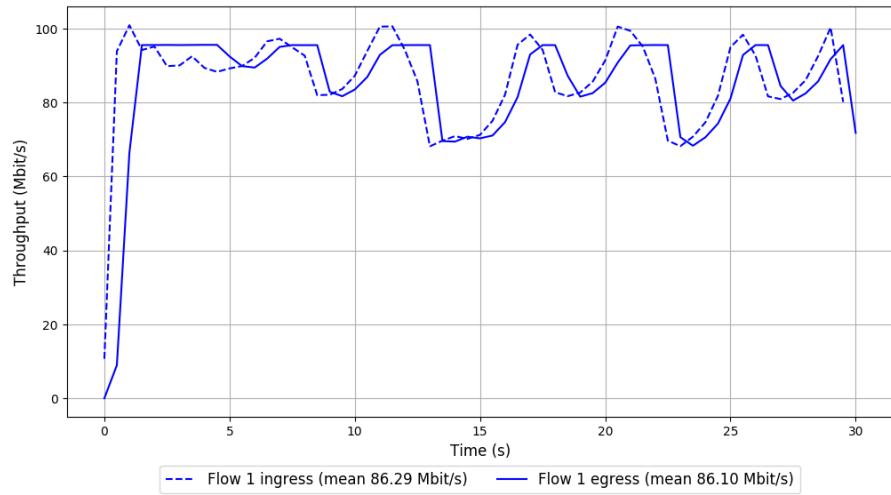


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-02-11 22:54:49
End at: 2019-02-11 22:55:19
Local clock offset: -0.704 ms
Remote clock offset: -4.789 ms

# Below is generated by plot.py at 2019-02-12 00:46:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.10 Mbit/s
95th percentile per-packet one-way delay: 167.369 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 86.10 Mbit/s
95th percentile per-packet one-way delay: 167.369 ms
Loss rate: 0.44%
```

Run 1: Report of PCC-Expr — Data Link

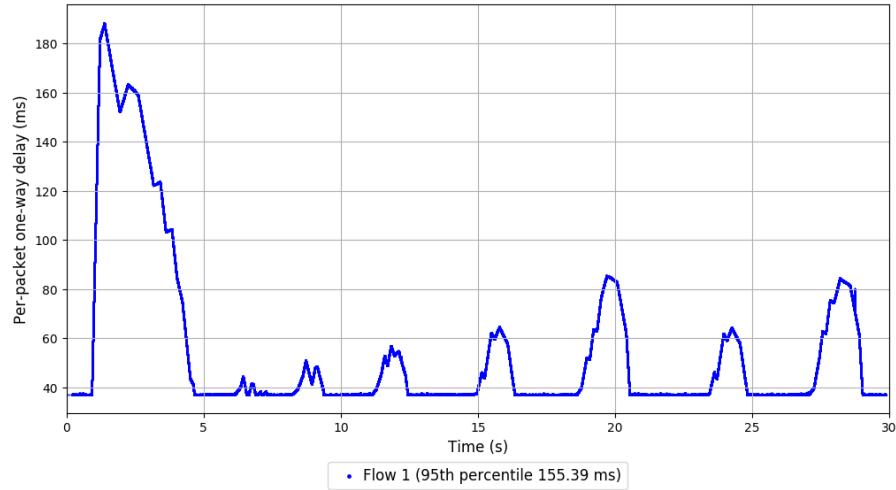
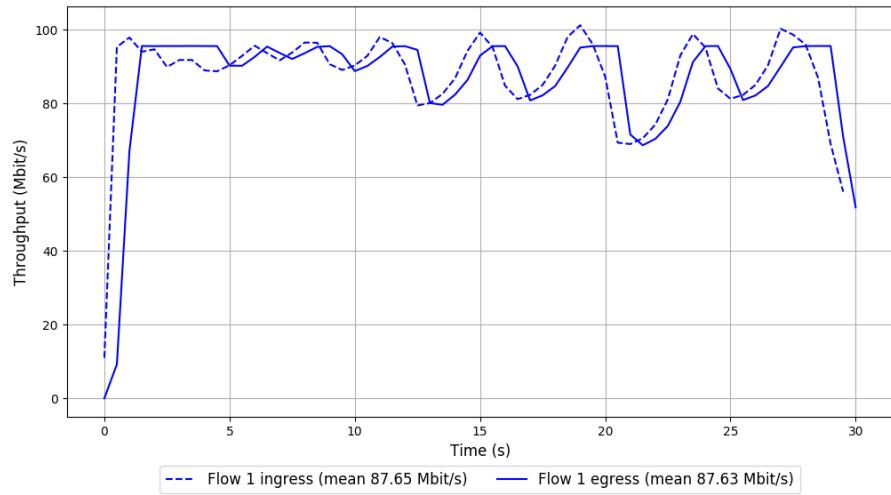


Run 2: Statistics of PCC-Expr

```
Start at: 2019-02-11 23:19:34
End at: 2019-02-11 23:20:04
Local clock offset: 0.212 ms
Remote clock offset: -4.314 ms

# Below is generated by plot.py at 2019-02-12 00:46:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 155.389 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 155.389 ms
Loss rate: 0.24%
```

Run 2: Report of PCC-Expr — Data Link

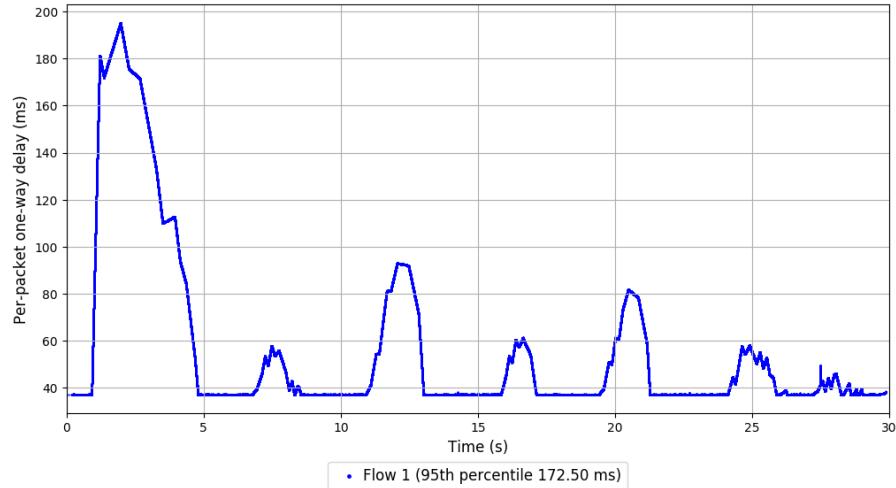
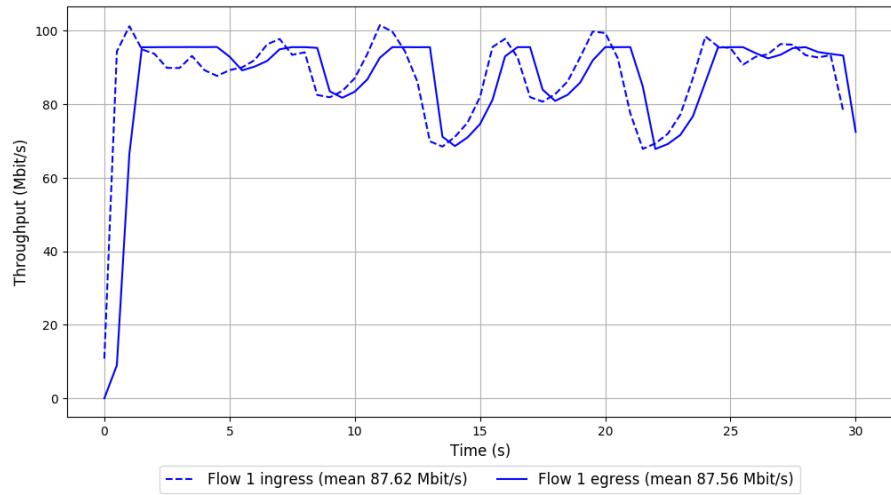


Run 3: Statistics of PCC-Expr

```
Start at: 2019-02-11 23:44:17
End at: 2019-02-11 23:44:47
Local clock offset: 0.256 ms
Remote clock offset: -3.855 ms

# Below is generated by plot.py at 2019-02-12 00:46:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.56 Mbit/s
95th percentile per-packet one-way delay: 172.505 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 87.56 Mbit/s
95th percentile per-packet one-way delay: 172.505 ms
Loss rate: 0.29%
```

Run 3: Report of PCC-Expr — Data Link

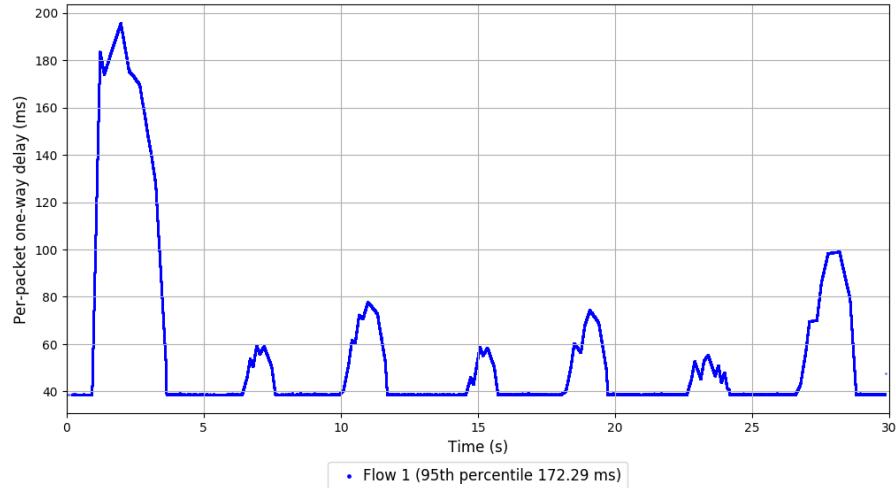
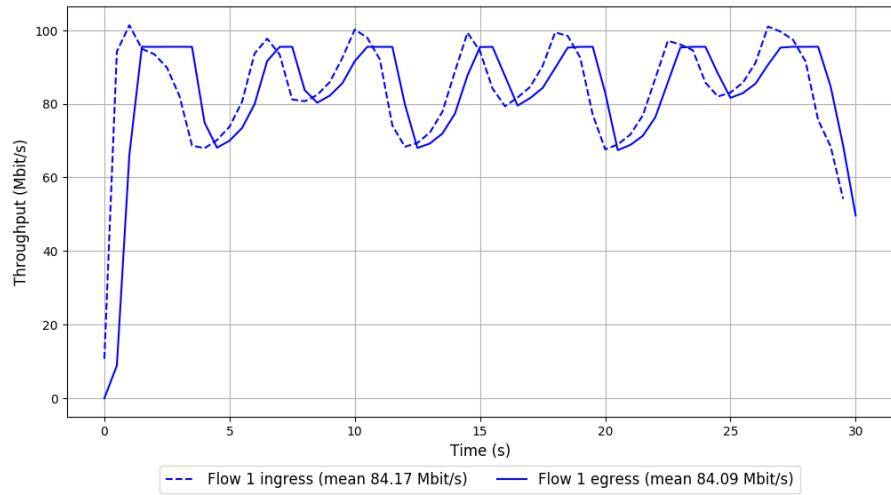


Run 4: Statistics of PCC-Expr

```
Start at: 2019-02-12 00:09:07
End at: 2019-02-12 00:09:37
Local clock offset: -1.164 ms
Remote clock offset: -5.153 ms

# Below is generated by plot.py at 2019-02-12 00:47:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.09 Mbit/s
95th percentile per-packet one-way delay: 172.291 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 84.09 Mbit/s
95th percentile per-packet one-way delay: 172.291 ms
Loss rate: 0.29%
```

Run 4: Report of PCC-Expr — Data Link

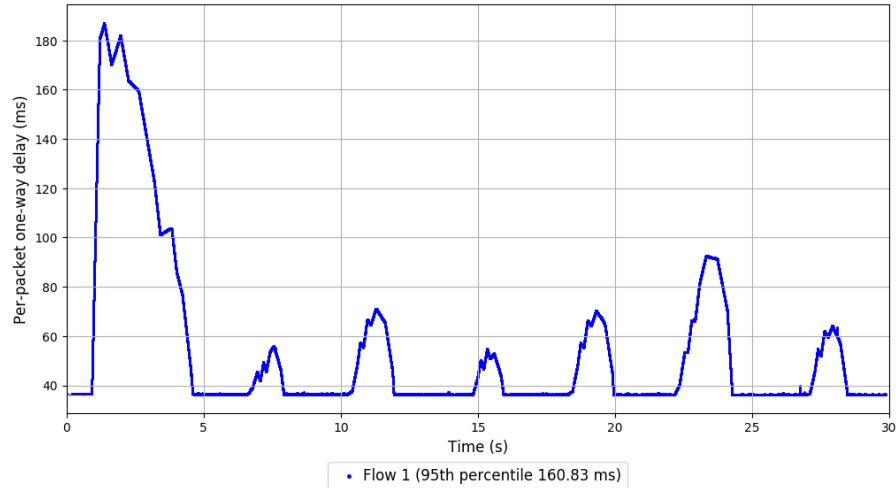
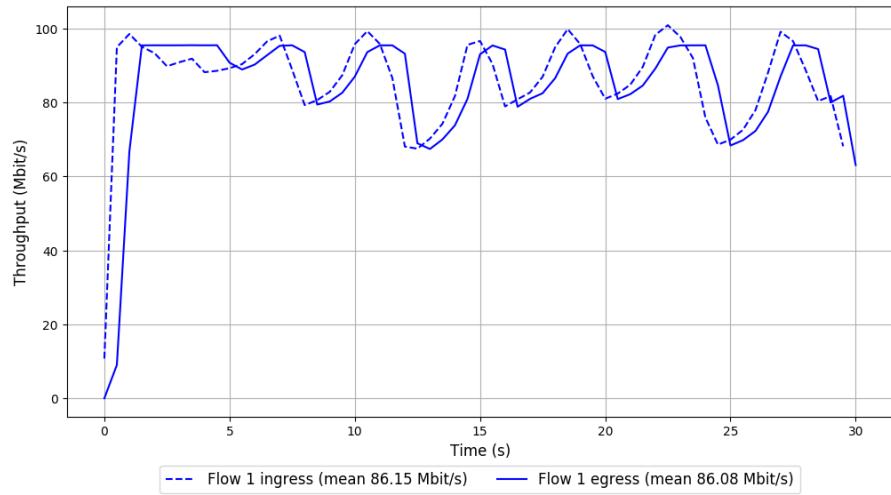


Run 5: Statistics of PCC-Expr

```
Start at: 2019-02-12 00:34:07
End at: 2019-02-12 00:34:37
Local clock offset: -3.709 ms
Remote clock offset: -3.354 ms

# Below is generated by plot.py at 2019-02-12 00:47:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.08 Mbit/s
95th percentile per-packet one-way delay: 160.827 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 86.08 Mbit/s
95th percentile per-packet one-way delay: 160.827 ms
Loss rate: 0.29%
```

Run 5: Report of PCC-Expr — Data Link

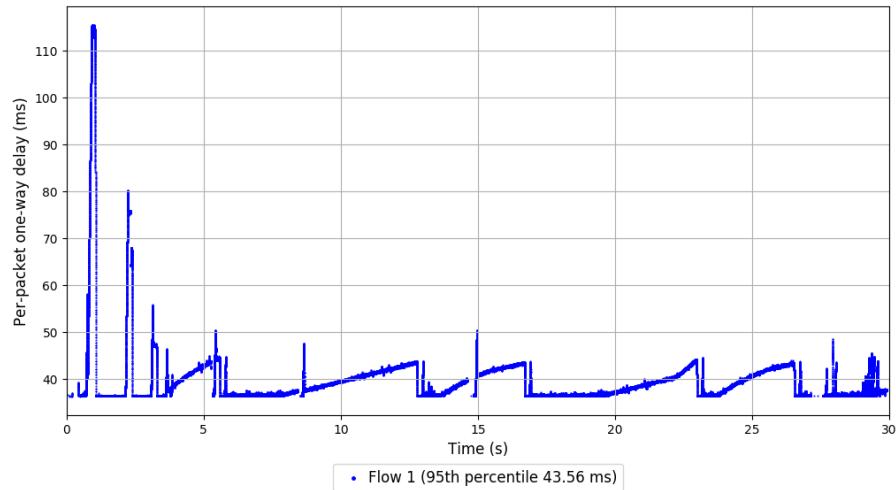
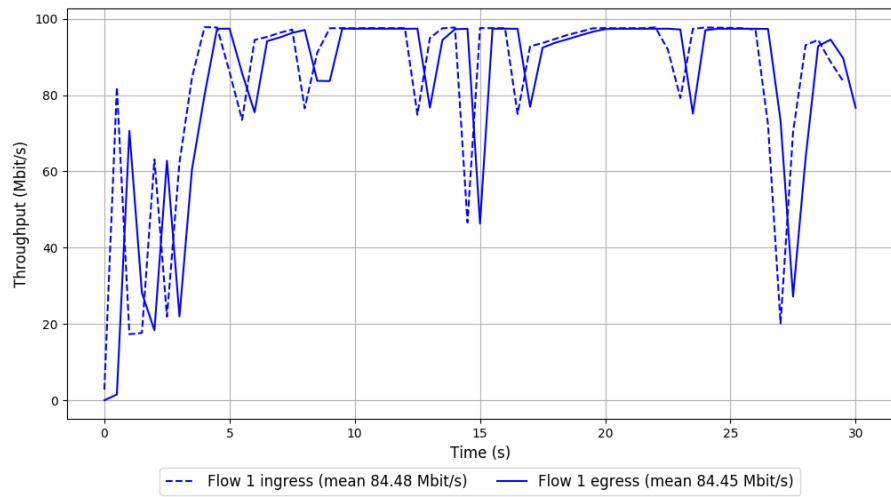


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-02-11 22:32:20
End at: 2019-02-11 22:32:50
Local clock offset: 0.03 ms
Remote clock offset: -5.032 ms

# Below is generated by plot.py at 2019-02-12 00:47:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.45 Mbit/s
95th percentile per-packet one-way delay: 43.562 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 84.45 Mbit/s
95th percentile per-packet one-way delay: 43.562 ms
Loss rate: 0.26%
```

Run 1: Report of QUIC Cubic — Data Link

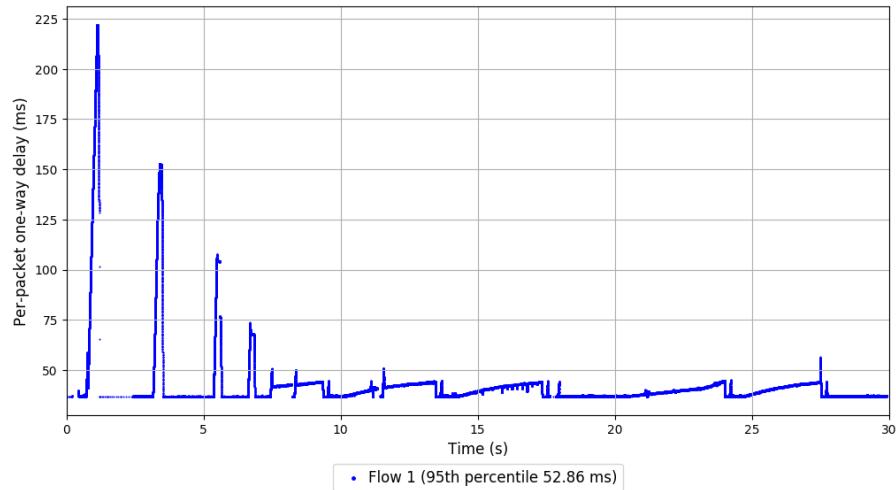
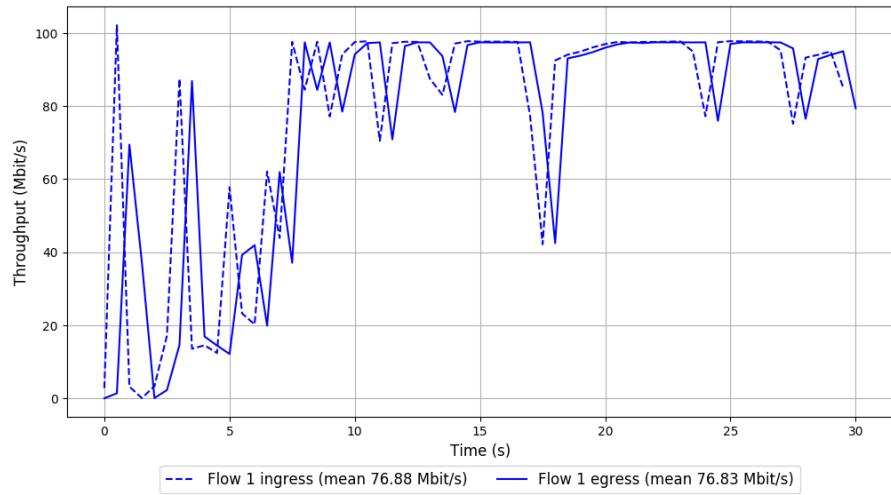


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-02-11 22:57:17
End at: 2019-02-11 22:57:47
Local clock offset: -0.738 ms
Remote clock offset: -4.622 ms

# Below is generated by plot.py at 2019-02-12 00:47:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.83 Mbit/s
95th percentile per-packet one-way delay: 52.860 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 76.83 Mbit/s
95th percentile per-packet one-way delay: 52.860 ms
Loss rate: 0.29%
```

Run 2: Report of QUIC Cubic — Data Link

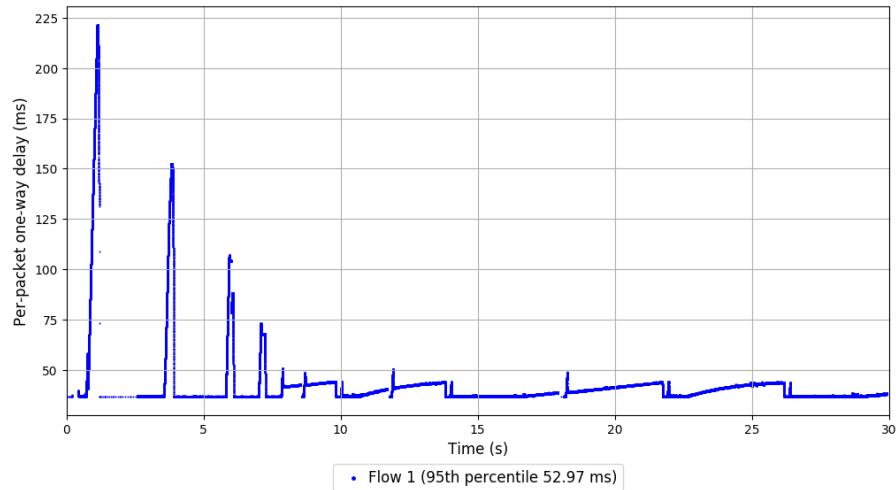
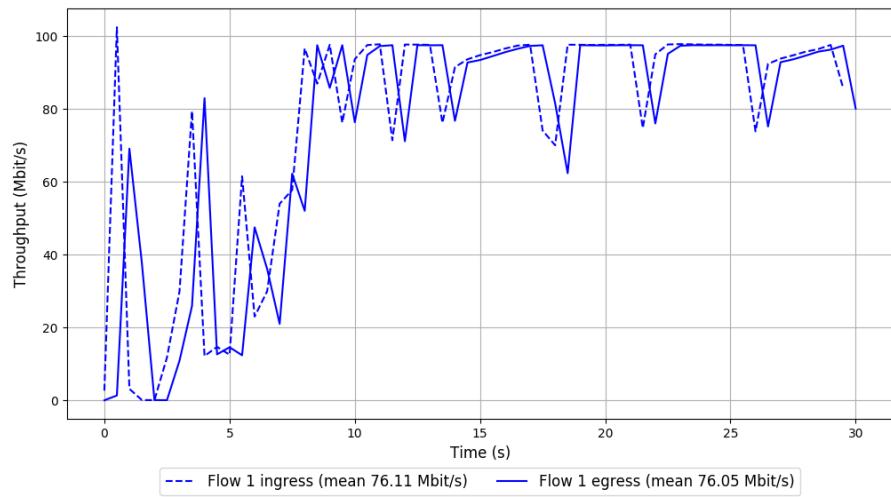


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-02-11 23:21:59
End at: 2019-02-11 23:22:29
Local clock offset: 0.286 ms
Remote clock offset: -3.895 ms

# Below is generated by plot.py at 2019-02-12 00:47:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.05 Mbit/s
95th percentile per-packet one-way delay: 52.971 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 76.05 Mbit/s
95th percentile per-packet one-way delay: 52.971 ms
Loss rate: 0.30%
```

Run 3: Report of QUIC Cubic — Data Link

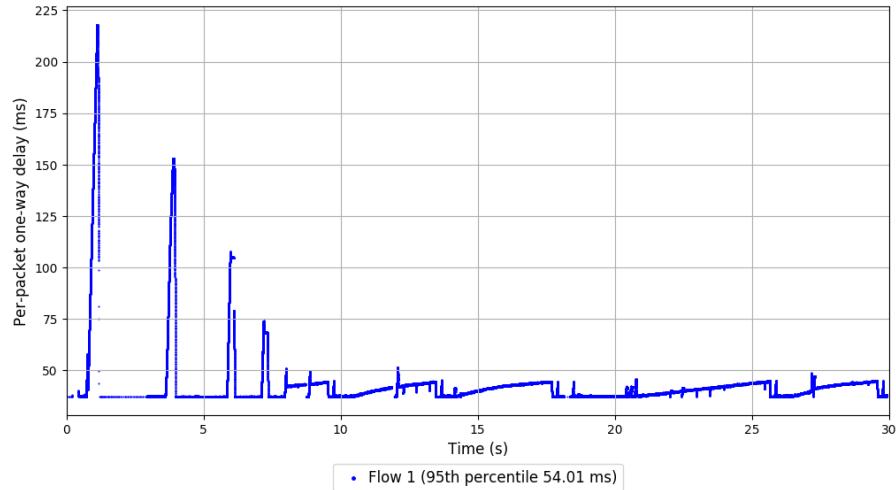
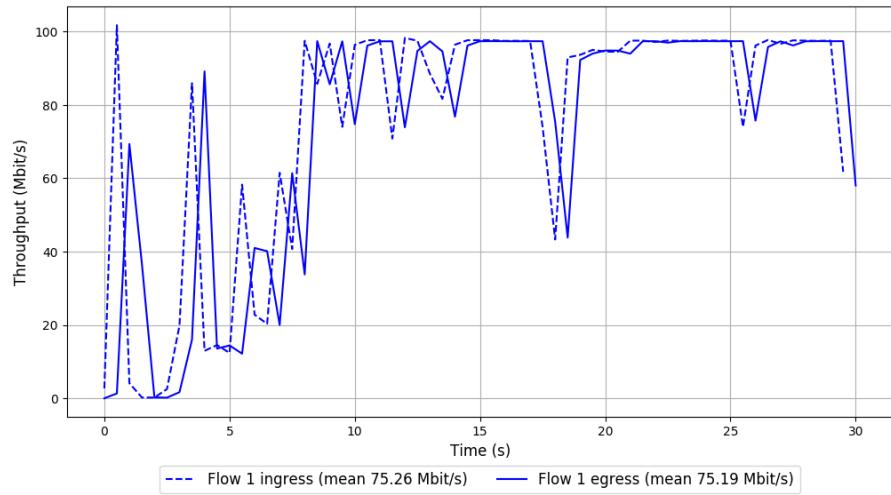


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-02-11 23:46:42
End at: 2019-02-11 23:47:12
Local clock offset: 0.233 ms
Remote clock offset: -3.836 ms

# Below is generated by plot.py at 2019-02-12 00:47:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.19 Mbit/s
95th percentile per-packet one-way delay: 54.008 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 75.19 Mbit/s
95th percentile per-packet one-way delay: 54.008 ms
Loss rate: 0.31%
```

Run 4: Report of QUIC Cubic — Data Link

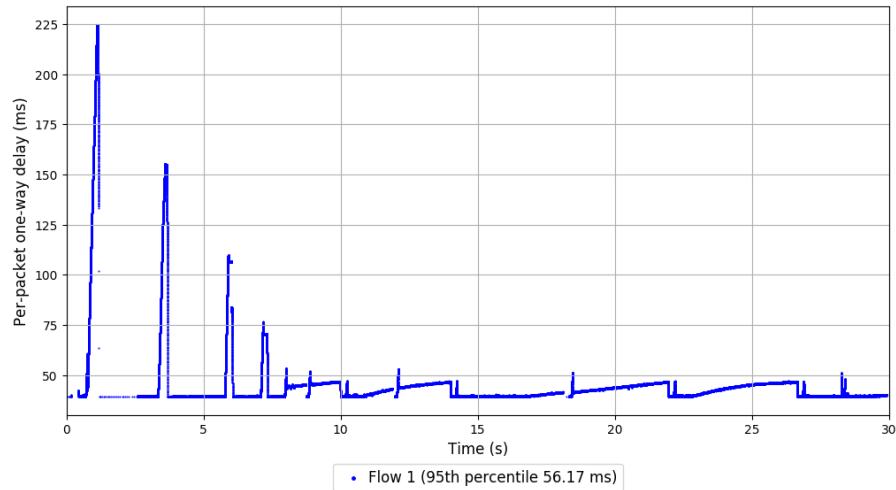
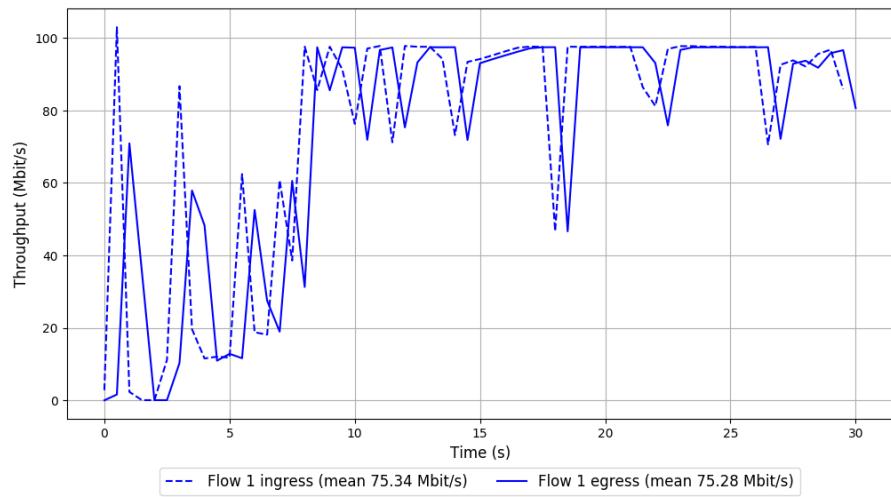


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-02-12 00:11:32
End at: 2019-02-12 00:12:02
Local clock offset: -1.698 ms
Remote clock offset: -5.824 ms

# Below is generated by plot.py at 2019-02-12 00:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.28 Mbit/s
95th percentile per-packet one-way delay: 56.172 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 75.28 Mbit/s
95th percentile per-packet one-way delay: 56.172 ms
Loss rate: 0.30%
```

Run 5: Report of QUIC Cubic — Data Link

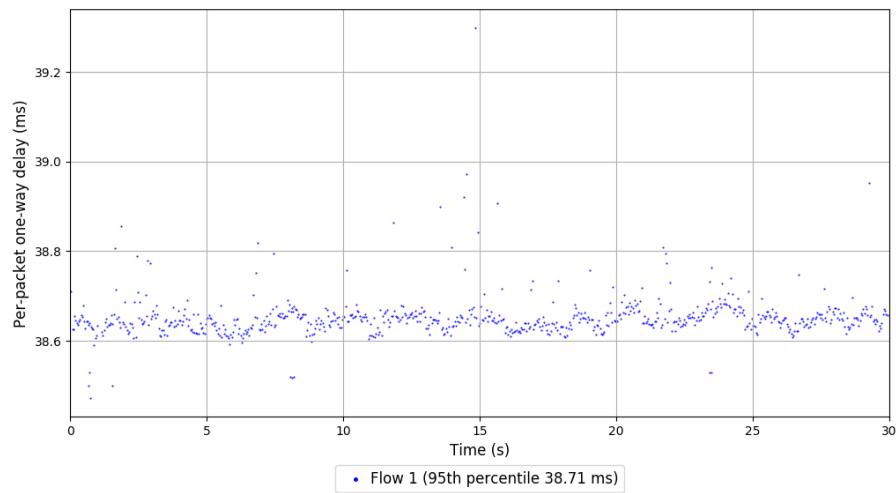
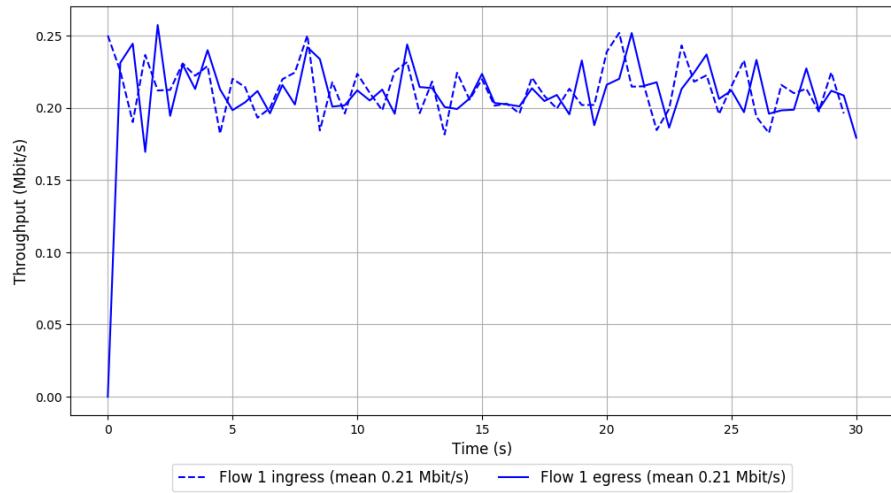


Run 1: Statistics of SCReAM

```
Start at: 2019-02-11 22:41:52
End at: 2019-02-11 22:42:22
Local clock offset: -0.372 ms
Remote clock offset: -6.96 ms

# Below is generated by plot.py at 2019-02-12 00:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.710 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.710 ms
Loss rate: 0.26%
```

Run 1: Report of SCReAM — Data Link

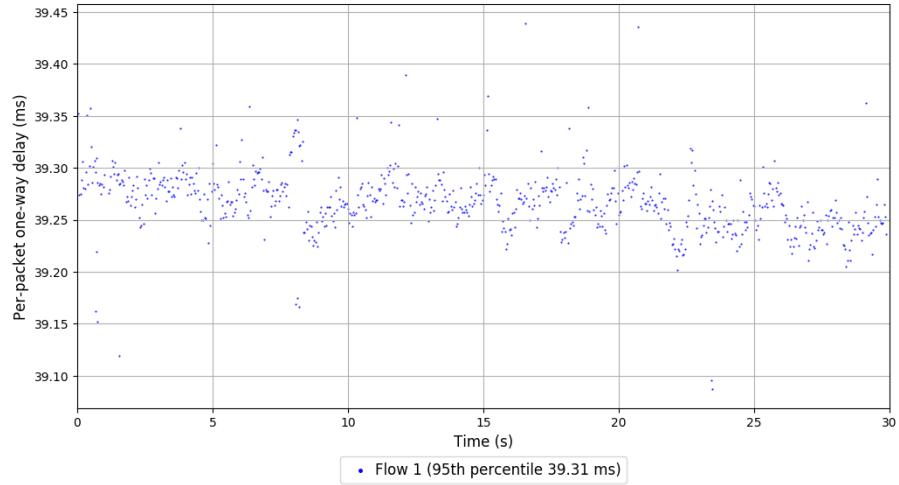
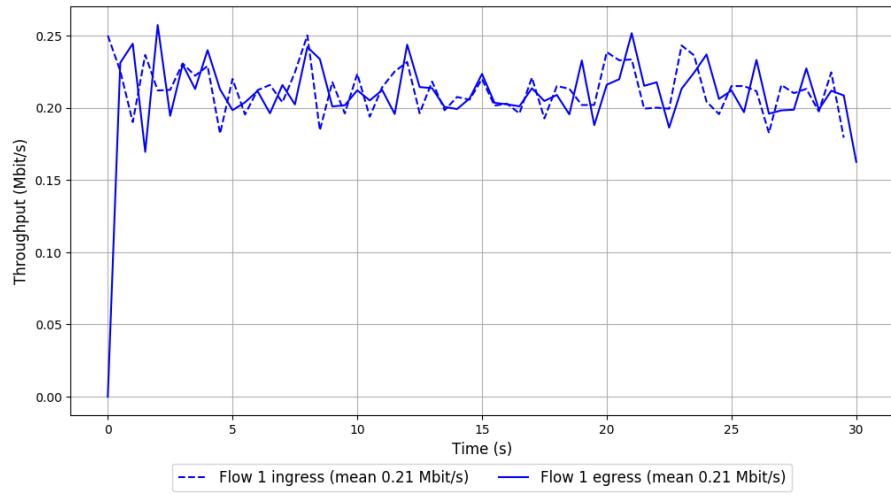


Run 2: Statistics of SCReAM

```
Start at: 2019-02-11 23:06:41
End at: 2019-02-11 23:07:11
Local clock offset: -0.534 ms
Remote clock offset: -6.843 ms

# Below is generated by plot.py at 2019-02-12 00:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.309 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.309 ms
Loss rate: 0.26%
```

Run 2: Report of SCReAM — Data Link

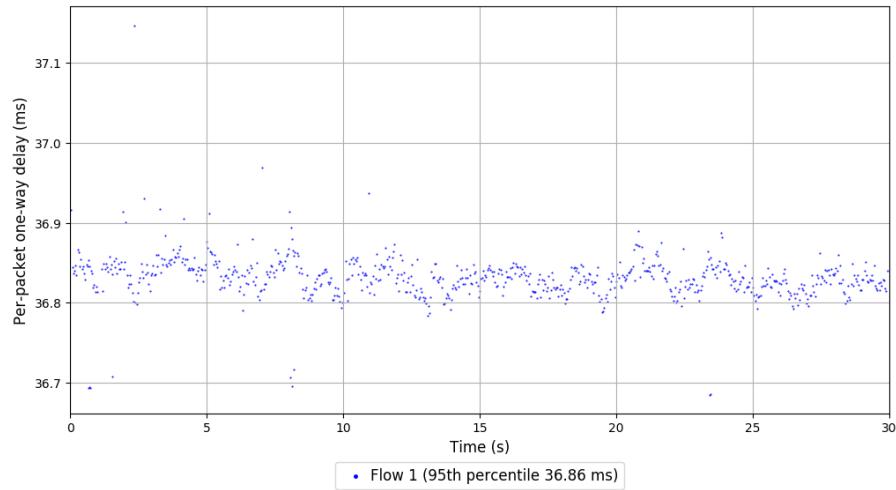
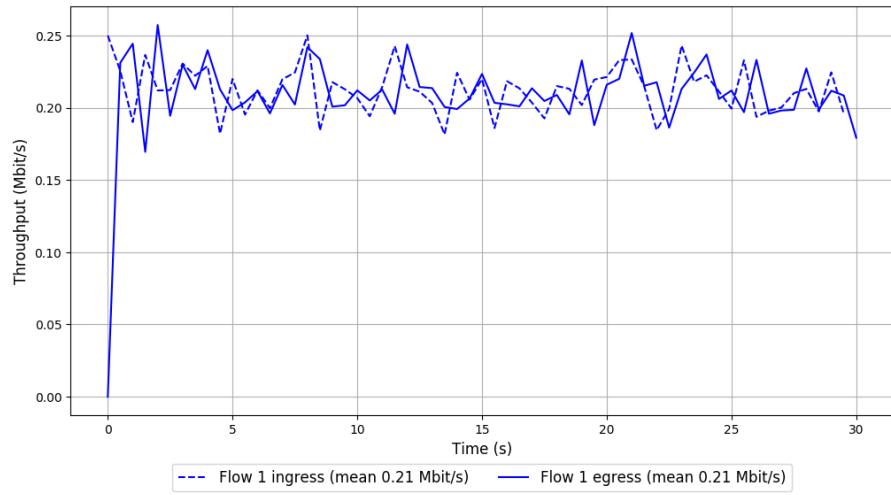


Run 3: Statistics of SCReAM

```
Start at: 2019-02-11 23:31:28
End at: 2019-02-11 23:31:58
Local clock offset: 0.405 ms
Remote clock offset: -3.668 ms

# Below is generated by plot.py at 2019-02-12 00:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.864 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.864 ms
Loss rate: 0.26%
```

Run 3: Report of SCReAM — Data Link

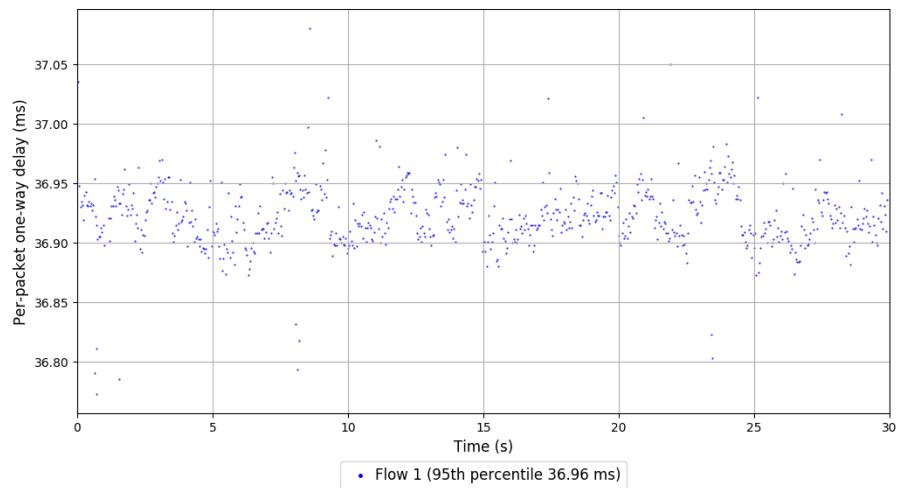
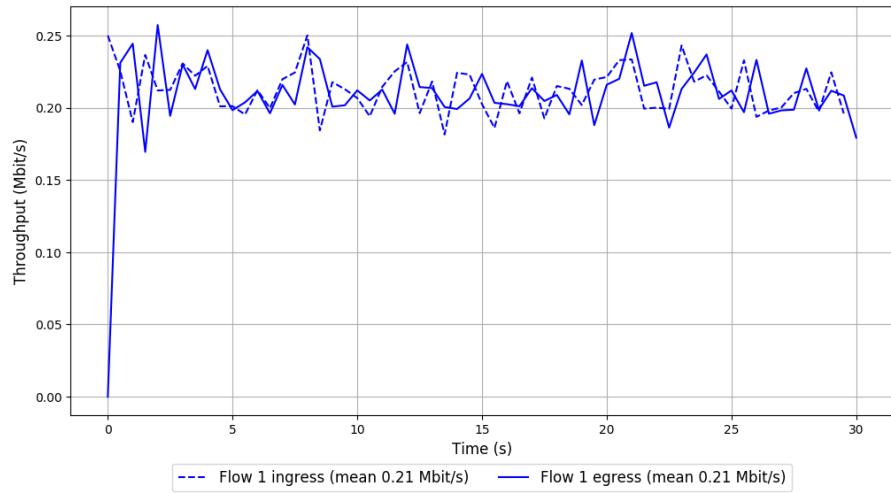


Run 4: Statistics of SCReAM

```
Start at: 2019-02-11 23:56:05
End at: 2019-02-11 23:56:35
Local clock offset: 0.2 ms
Remote clock offset: -3.561 ms

# Below is generated by plot.py at 2019-02-12 00:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.959 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.959 ms
Loss rate: 0.26%
```

Run 4: Report of SCReAM — Data Link

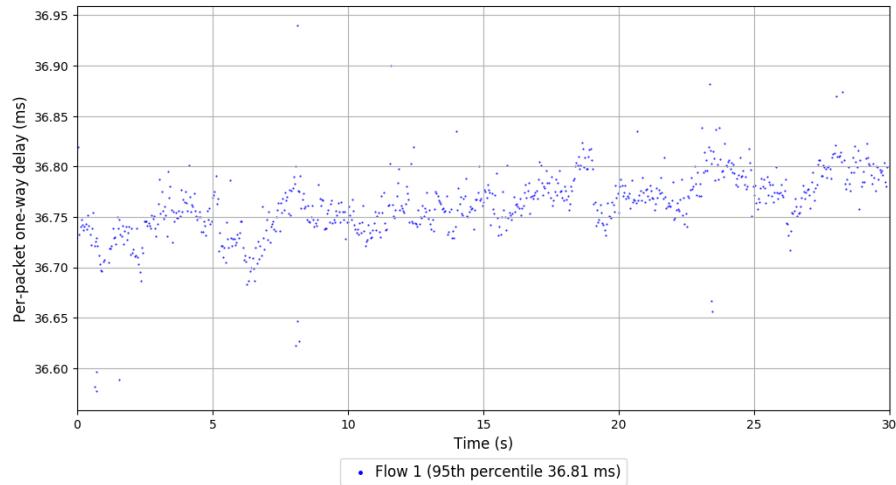
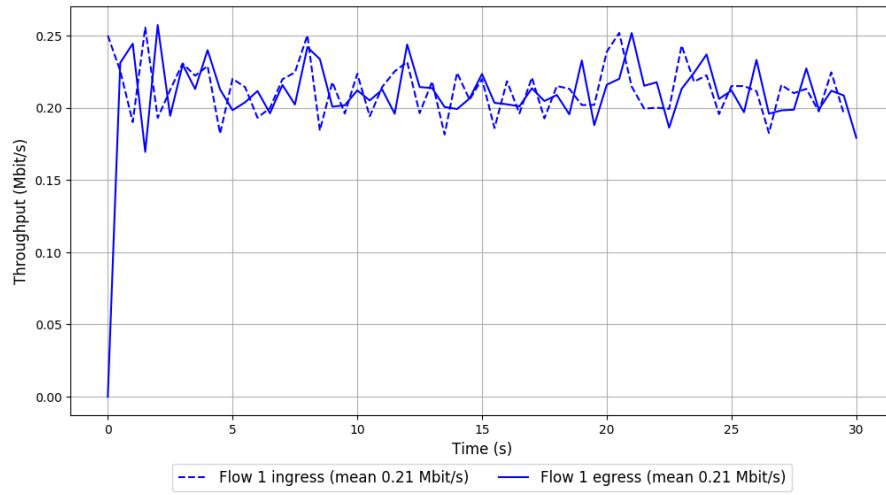


Run 5: Statistics of SCReAM

```
Start at: 2019-02-12 00:20:52
End at: 2019-02-12 00:21:22
Local clock offset: -2.861 ms
Remote clock offset: -3.207 ms

# Below is generated by plot.py at 2019-02-12 00:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.809 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.809 ms
Loss rate: 0.26%
```

Run 5: Report of SCReAM — Data Link

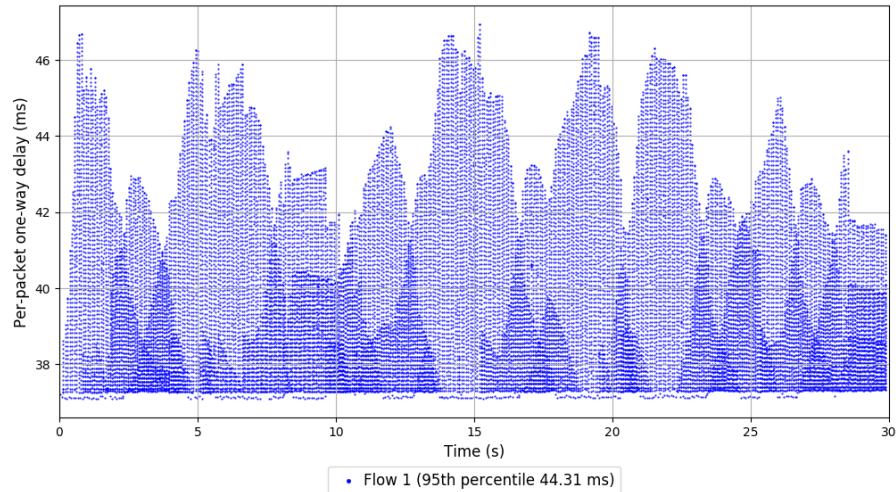
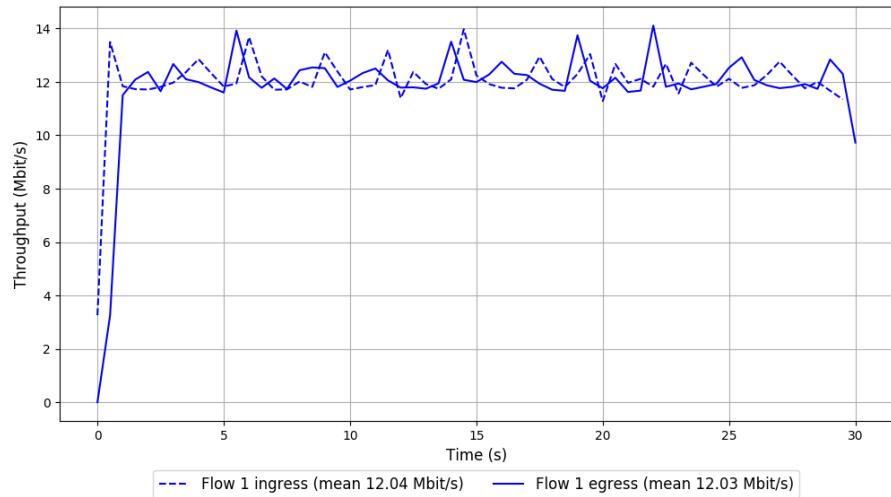


Run 1: Statistics of Sprout

```
Start at: 2019-02-11 22:35:53
End at: 2019-02-11 22:36:23
Local clock offset: -0.071 ms
Remote clock offset: -5.829 ms

# Below is generated by plot.py at 2019-02-12 00:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 44.312 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 44.312 ms
Loss rate: 0.27%
```

Run 1: Report of Sprout — Data Link

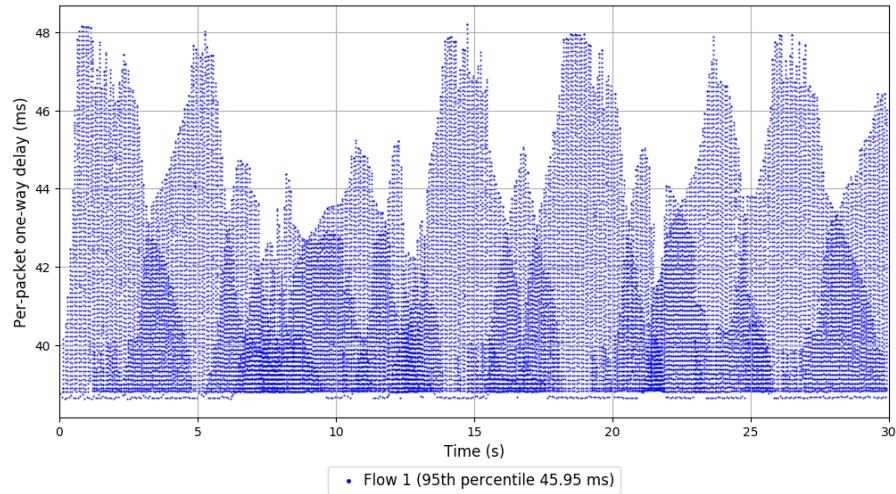
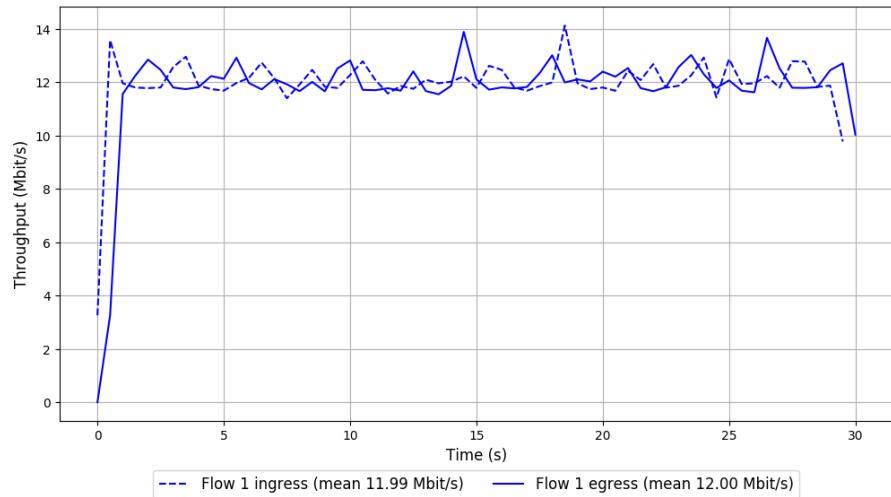


Run 2: Statistics of Sprout

```
Start at: 2019-02-11 23:00:50
End at: 2019-02-11 23:01:20
Local clock offset: -0.782 ms
Remote clock offset: -6.481 ms

# Below is generated by plot.py at 2019-02-12 00:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.00 Mbit/s
95th percentile per-packet one-way delay: 45.953 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 12.00 Mbit/s
95th percentile per-packet one-way delay: 45.953 ms
Loss rate: 0.04%
```

Run 2: Report of Sprout — Data Link

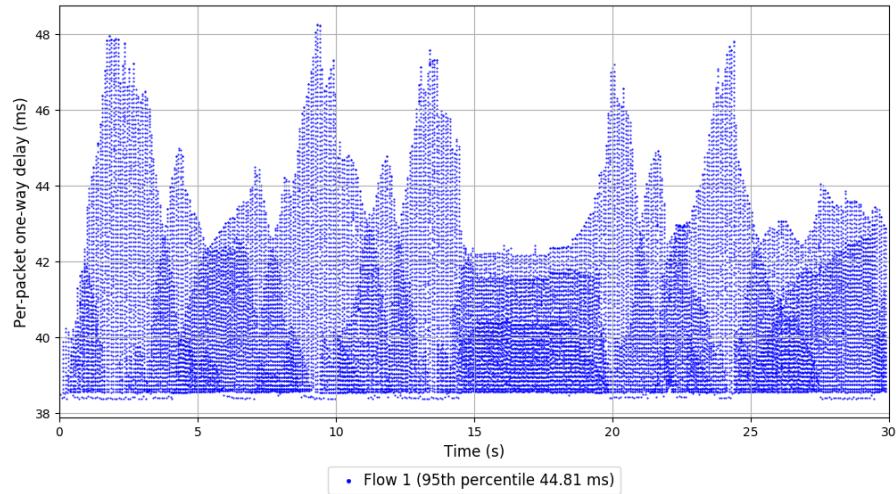
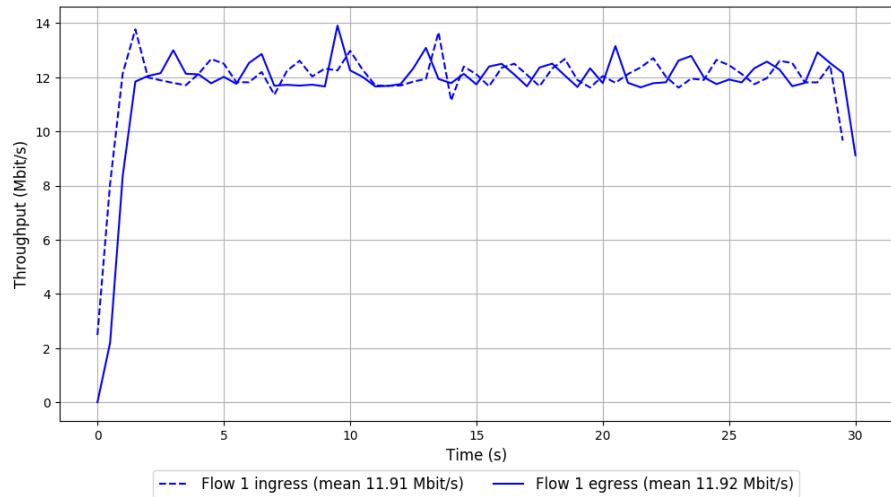


Run 3: Statistics of Sprout

```
Start at: 2019-02-11 23:25:31
End at: 2019-02-11 23:26:01
Local clock offset: 0.346 ms
Remote clock offset: -5.545 ms

# Below is generated by plot.py at 2019-02-12 00:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 44.812 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 44.812 ms
Loss rate: 0.14%
```

Run 3: Report of Sprout — Data Link

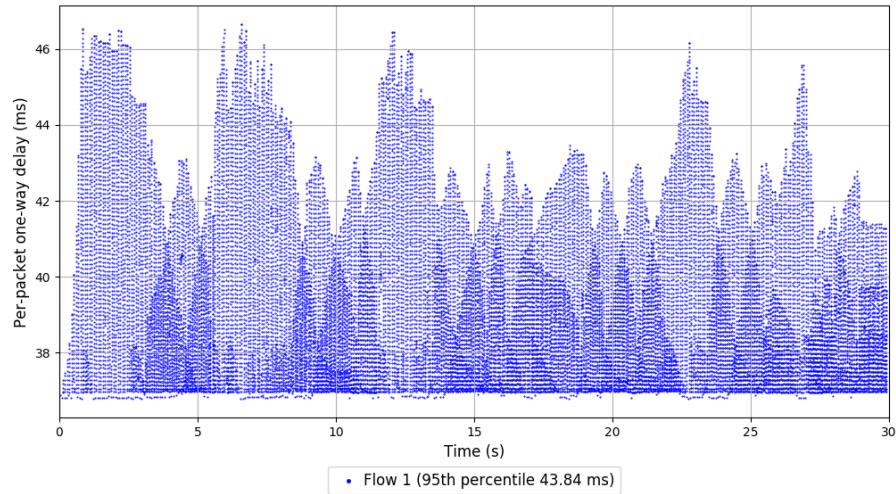
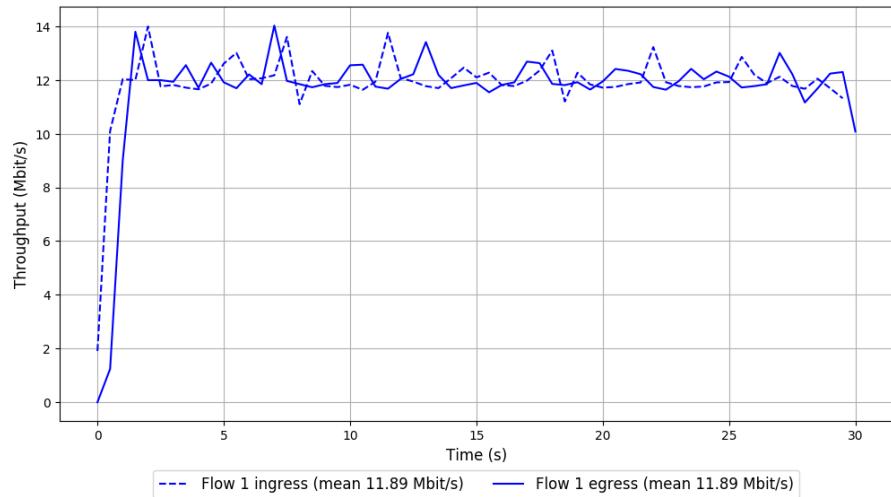


Run 4: Statistics of Sprout

```
Start at: 2019-02-11 23:50:14
End at: 2019-02-11 23:50:44
Local clock offset: 0.223 ms
Remote clock offset: -3.574 ms

# Below is generated by plot.py at 2019-02-12 00:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 43.843 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 43.843 ms
Loss rate: 0.22%
```

Run 4: Report of Sprout — Data Link

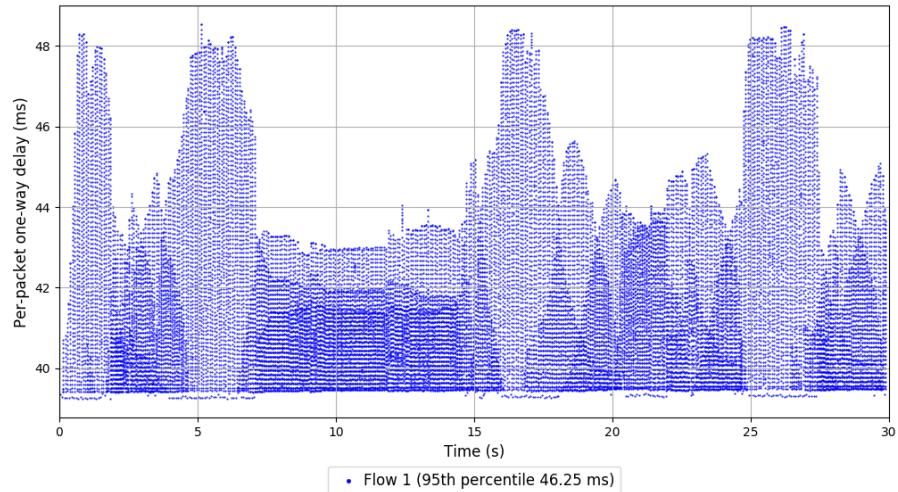
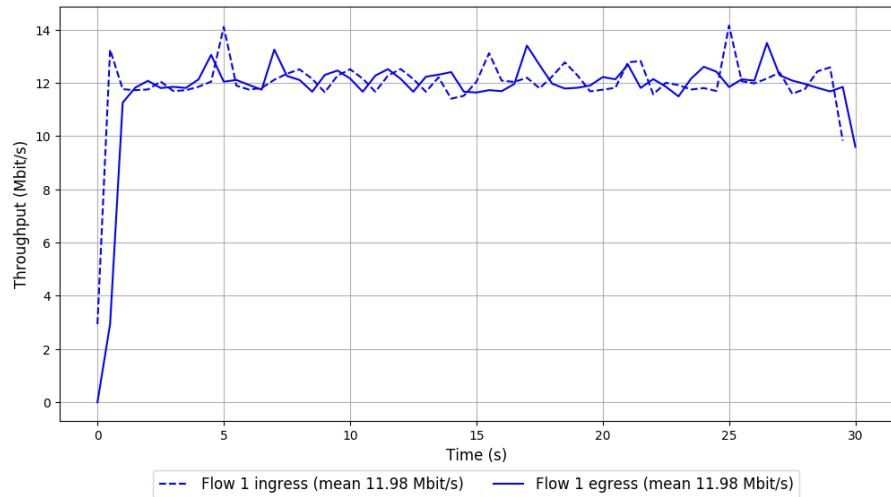


Run 5: Statistics of Sprout

```
Start at: 2019-02-12 00:15:03
End at: 2019-02-12 00:15:33
Local clock offset: -2.214 ms
Remote clock offset: -5.786 ms

# Below is generated by plot.py at 2019-02-12 00:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 46.246 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 46.246 ms
Loss rate: 0.27%
```

Run 5: Report of Sprout — Data Link

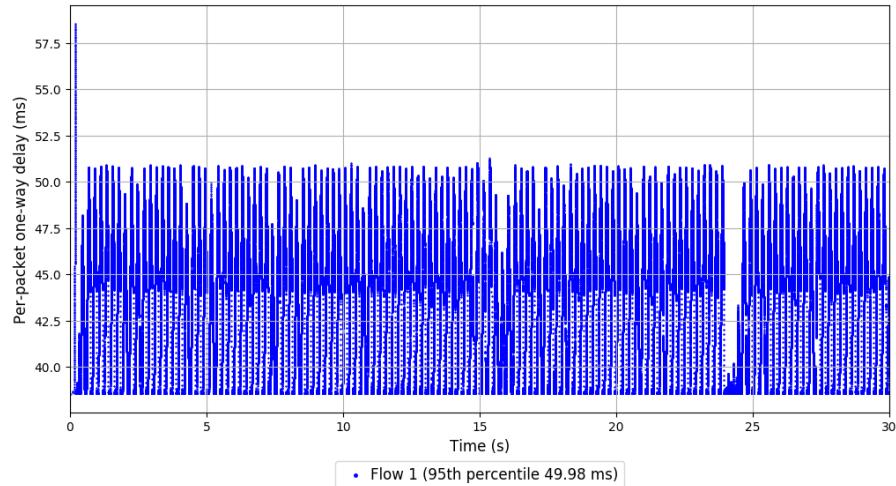
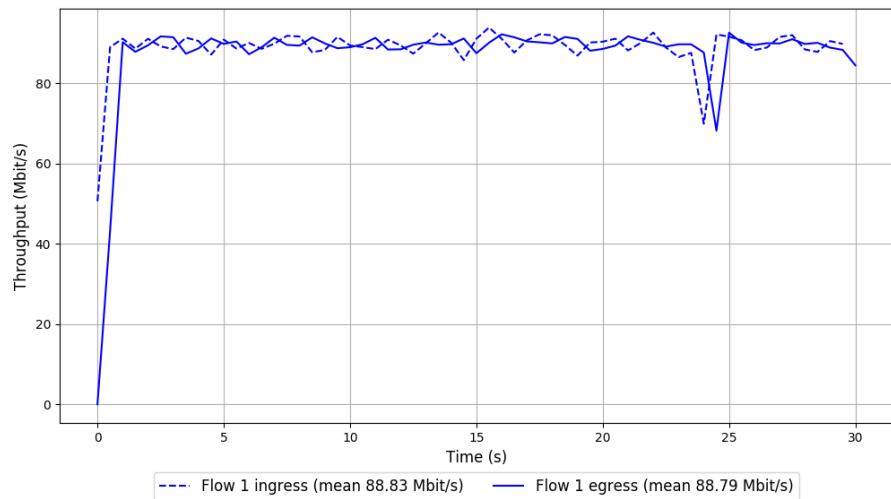


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-02-11 22:50:07
End at: 2019-02-11 22:50:37
Local clock offset: -0.608 ms
Remote clock offset: -6.717 ms

# Below is generated by plot.py at 2019-02-12 00:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.79 Mbit/s
95th percentile per-packet one-way delay: 49.980 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 88.79 Mbit/s
95th percentile per-packet one-way delay: 49.980 ms
Loss rate: 0.27%
```

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

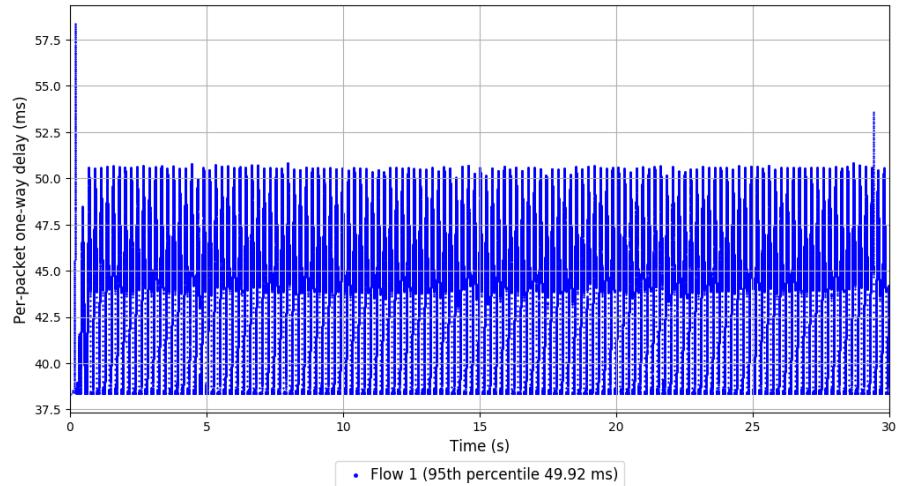
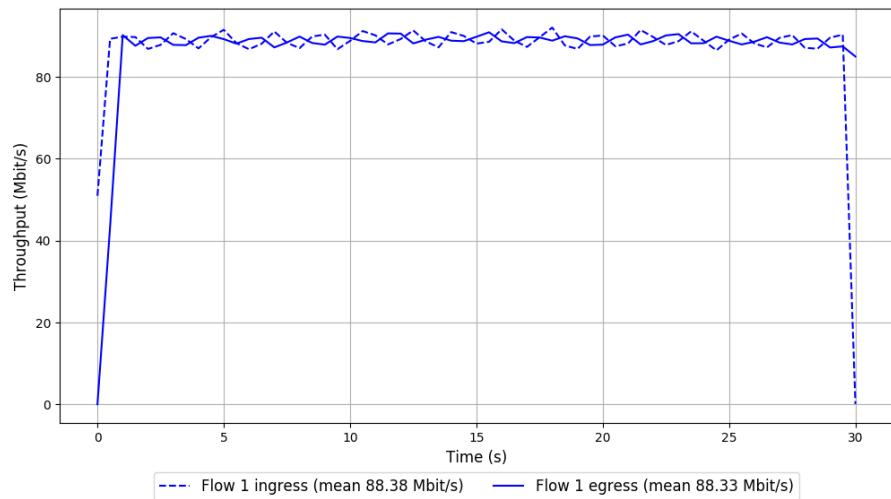


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-02-11 23:14:51
End at: 2019-02-11 23:15:21
Local clock offset: 0.047 ms
Remote clock offset: -5.822 ms

# Below is generated by plot.py at 2019-02-12 00:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.33 Mbit/s
95th percentile per-packet one-way delay: 49.918 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 88.33 Mbit/s
95th percentile per-packet one-way delay: 49.918 ms
Loss rate: 0.27%
```

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

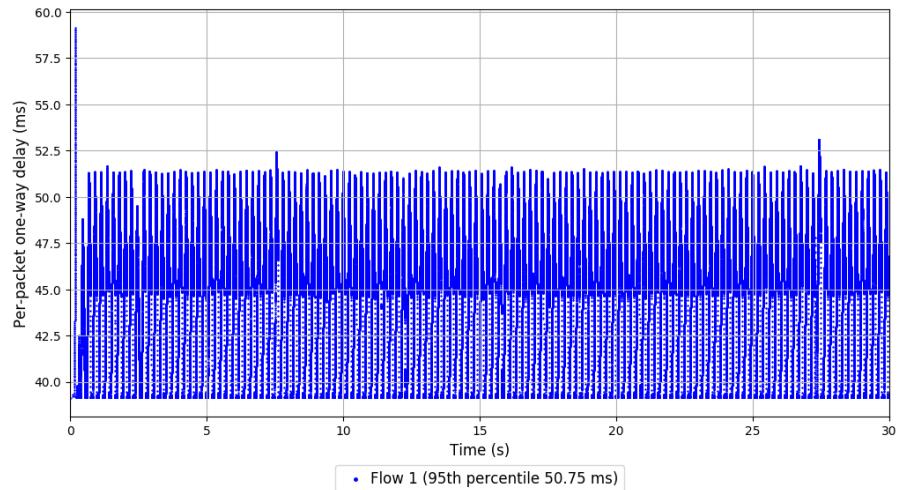
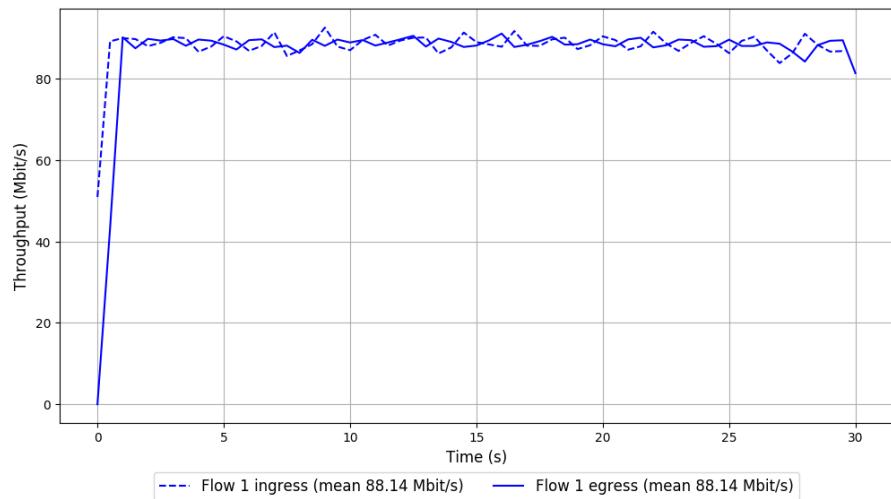


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-02-11 23:39:35
End at: 2019-02-11 23:40:05
Local clock offset: 0.311 ms
Remote clock offset: -6.043 ms

# Below is generated by plot.py at 2019-02-12 00:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.14 Mbit/s
95th percentile per-packet one-way delay: 50.754 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 88.14 Mbit/s
95th percentile per-packet one-way delay: 50.754 ms
Loss rate: 0.22%
```

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

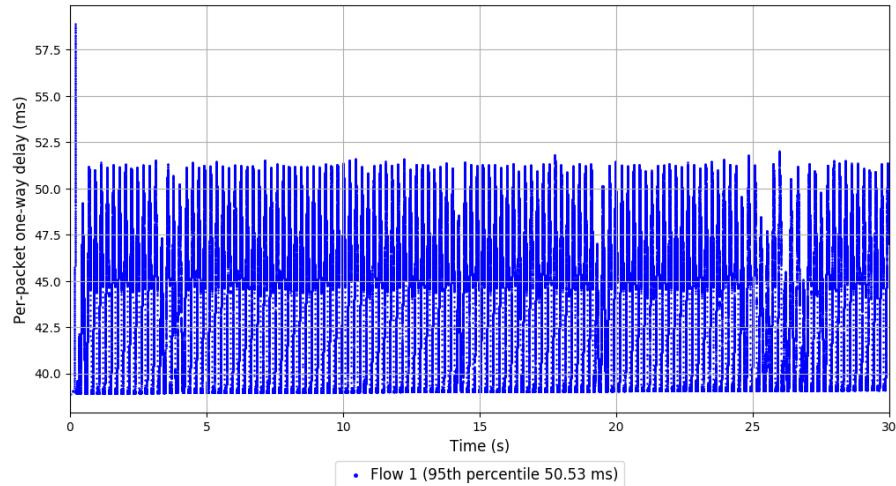
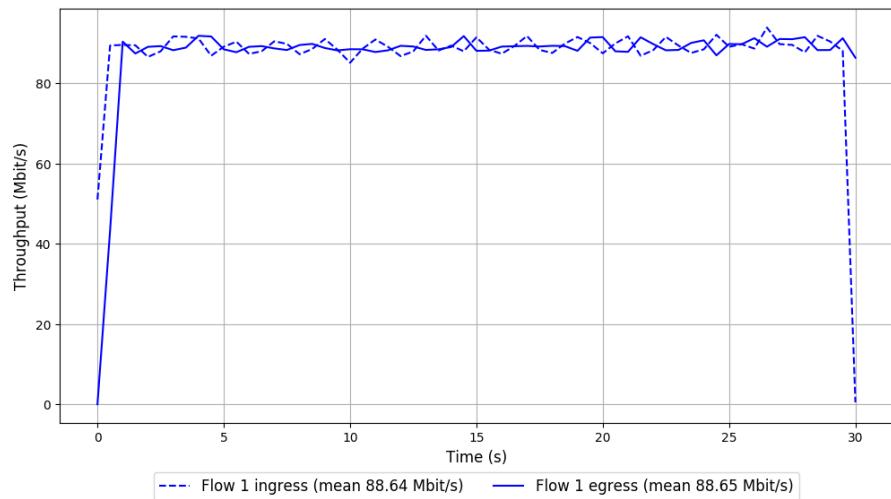


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-02-12 00:04:24
End at: 2019-02-12 00:04:54
Local clock offset: 0.145 ms
Remote clock offset: -5.424 ms

# Below is generated by plot.py at 2019-02-12 00:48:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.65 Mbit/s
95th percentile per-packet one-way delay: 50.531 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 88.65 Mbit/s
95th percentile per-packet one-way delay: 50.531 ms
Loss rate: 0.21%
```

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

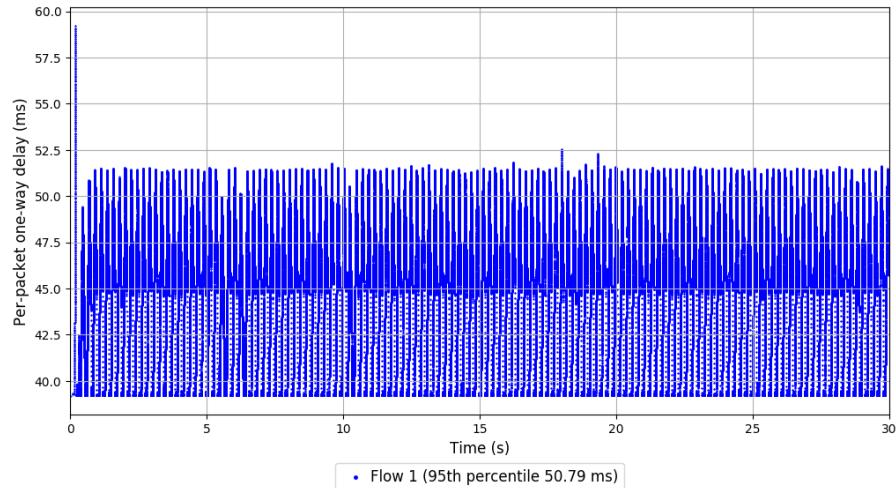
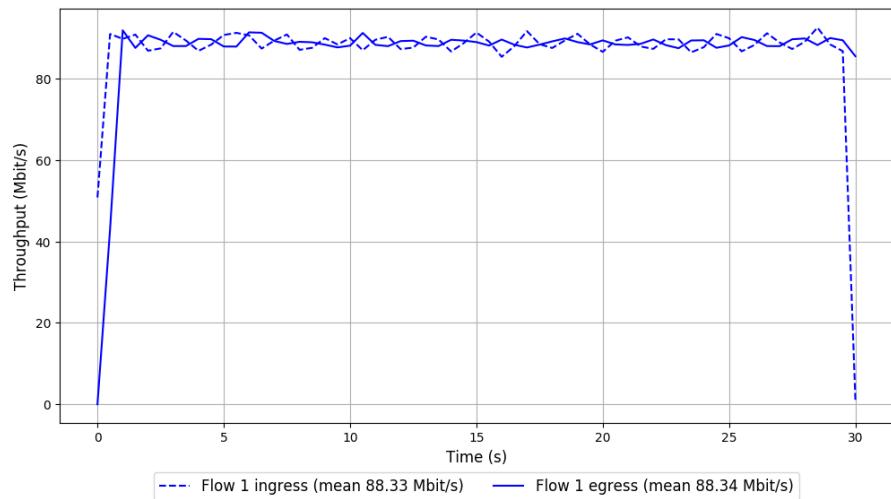


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-02-12 00:29:06
End at: 2019-02-12 00:29:36
Local clock offset: -3.422 ms
Remote clock offset: -5.792 ms

# Below is generated by plot.py at 2019-02-12 00:48:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.34 Mbit/s
95th percentile per-packet one-way delay: 50.787 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 88.34 Mbit/s
95th percentile per-packet one-way delay: 50.787 ms
Loss rate: 0.20%
```

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

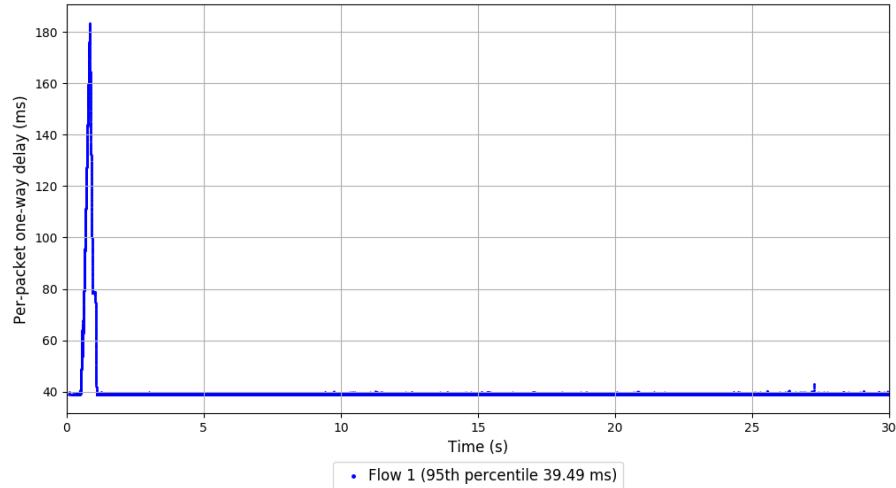
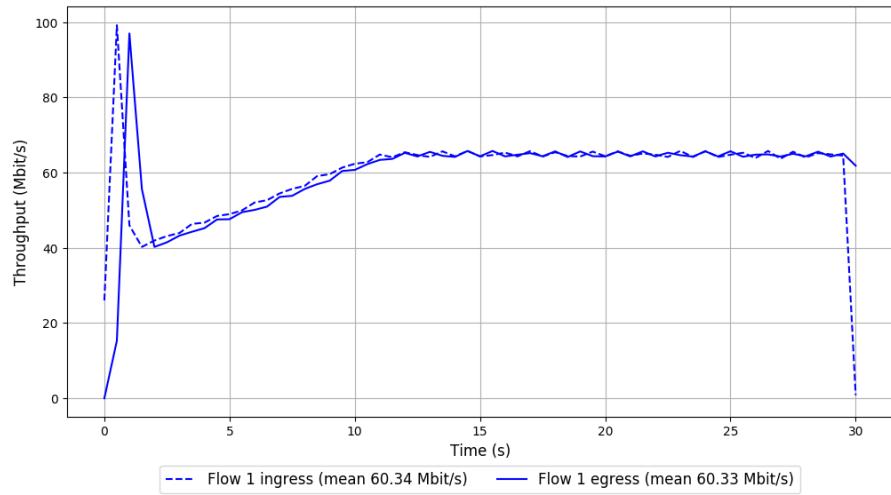


Run 1: Statistics of TCP Vegas

```
Start at: 2019-02-11 22:52:31
End at: 2019-02-11 22:53:01
Local clock offset: -0.66 ms
Remote clock offset: -6.986 ms

# Below is generated by plot.py at 2019-02-12 00:48:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.33 Mbit/s
95th percentile per-packet one-way delay: 39.491 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 60.33 Mbit/s
95th percentile per-packet one-way delay: 39.491 ms
Loss rate: 0.24%
```

Run 1: Report of TCP Vegas — Data Link

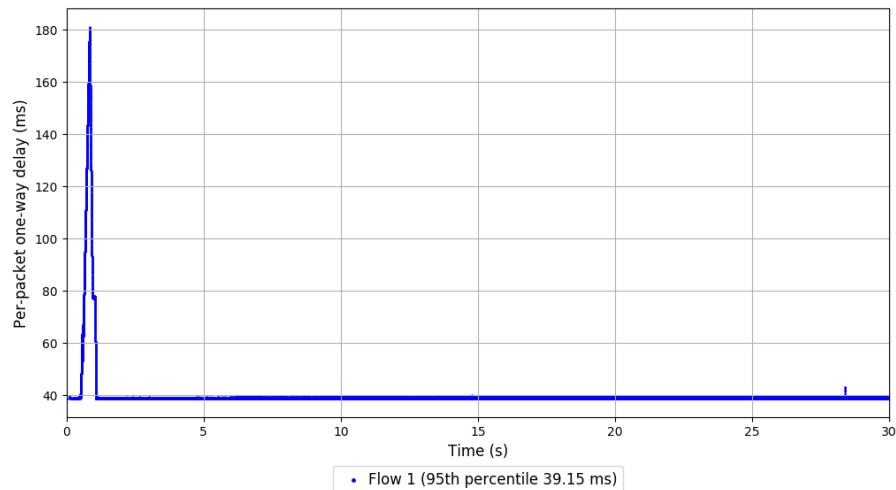
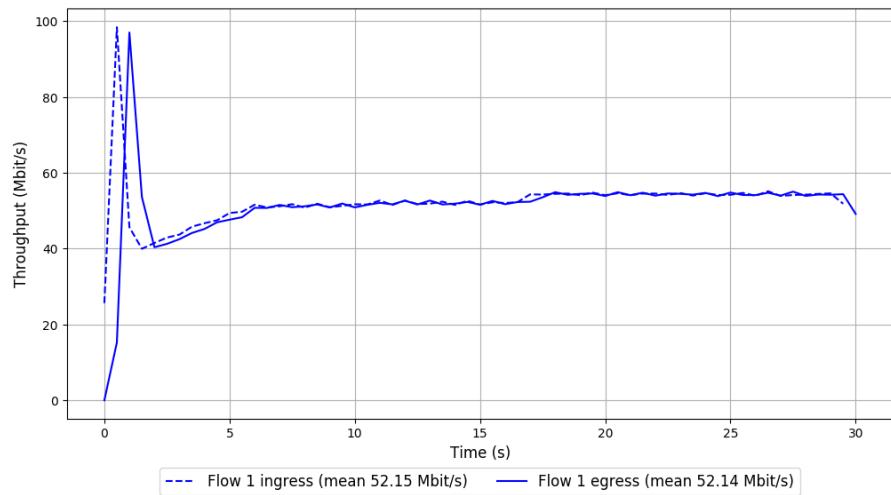


Run 2: Statistics of TCP Vegas

```
Start at: 2019-02-11 23:17:16
End at: 2019-02-11 23:17:46
Local clock offset: 0.13 ms
Remote clock offset: -5.977 ms

# Below is generated by plot.py at 2019-02-12 00:48:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.14 Mbit/s
95th percentile per-packet one-way delay: 39.150 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 52.14 Mbit/s
95th percentile per-packet one-way delay: 39.150 ms
Loss rate: 0.24%
```

Run 2: Report of TCP Vegas — Data Link

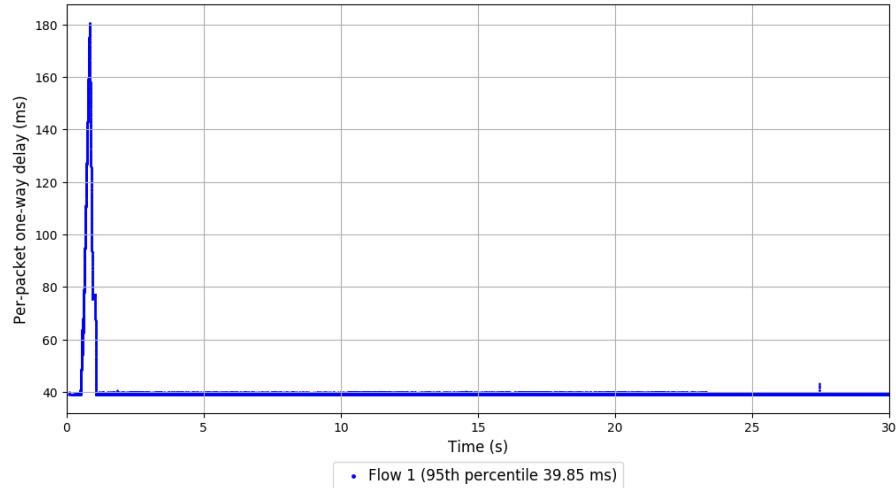
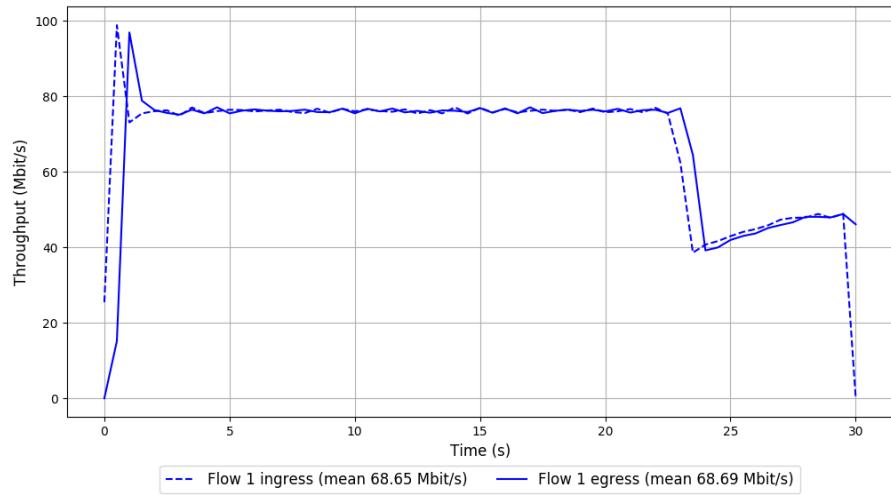


Run 3: Statistics of TCP Vegas

```
Start at: 2019-02-11 23:41:58
End at: 2019-02-11 23:42:28
Local clock offset: 0.29 ms
Remote clock offset: -5.828 ms

# Below is generated by plot.py at 2019-02-12 00:48:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.69 Mbit/s
95th percentile per-packet one-way delay: 39.854 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 68.69 Mbit/s
95th percentile per-packet one-way delay: 39.854 ms
Loss rate: 0.16%
```

Run 3: Report of TCP Vegas — Data Link

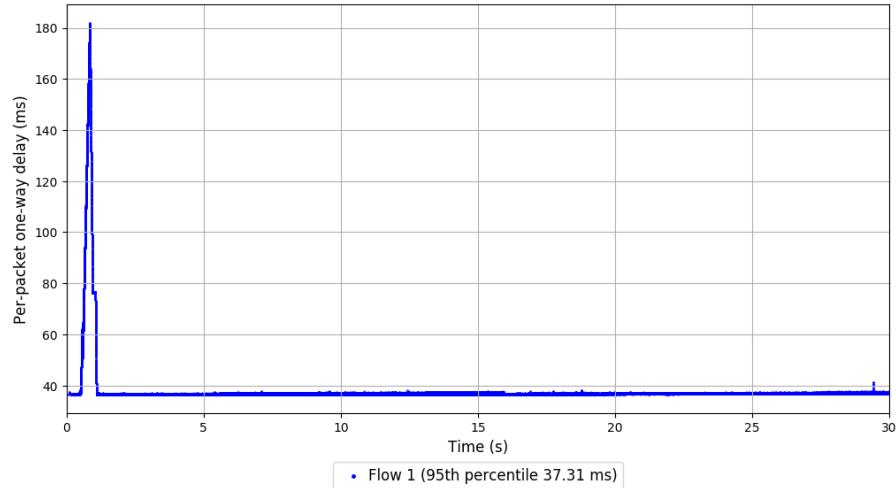
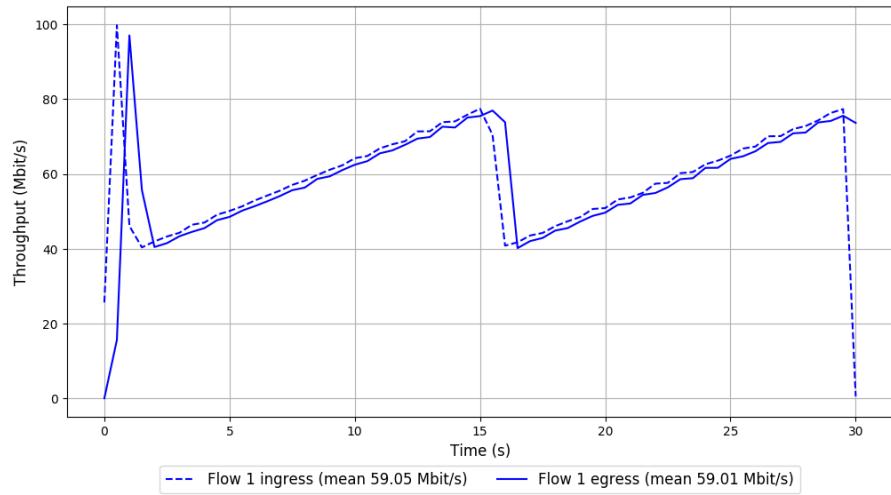


Run 4: Statistics of TCP Vegas

```
Start at: 2019-02-12 00:06:49
End at: 2019-02-12 00:07:19
Local clock offset: -0.565 ms
Remote clock offset: -2.96 ms

# Below is generated by plot.py at 2019-02-12 00:48:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.01 Mbit/s
95th percentile per-packet one-way delay: 37.310 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 59.01 Mbit/s
95th percentile per-packet one-way delay: 37.310 ms
Loss rate: 0.30%
```

Run 4: Report of TCP Vegas — Data Link

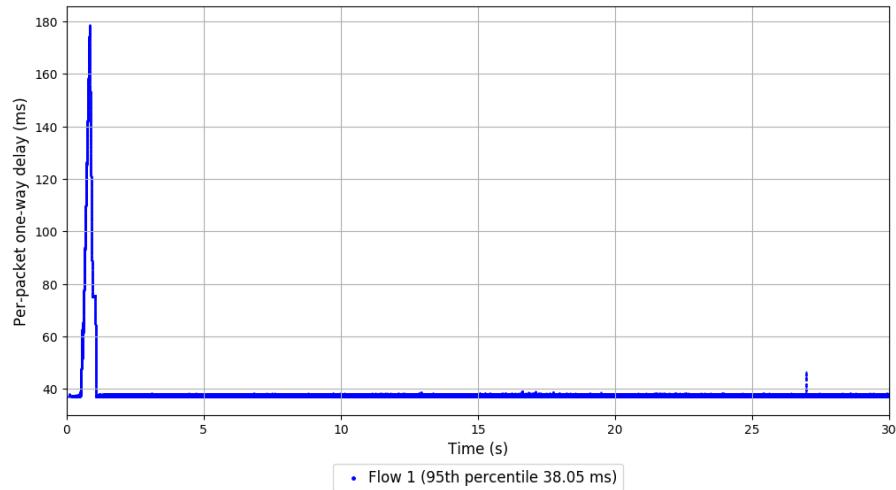
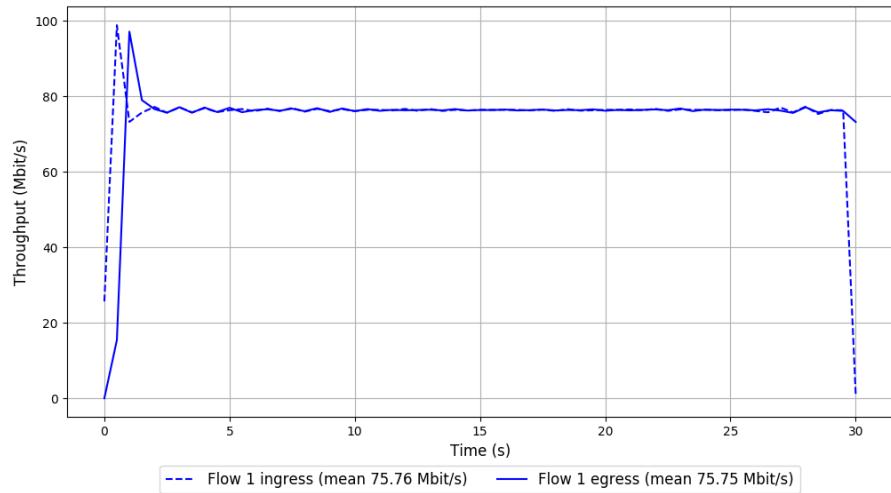


Run 5: Statistics of TCP Vegas

```
Start at: 2019-02-12 00:31:43
End at: 2019-02-12 00:32:13
Local clock offset: -3.584 ms
Remote clock offset: -3.874 ms

# Below is generated by plot.py at 2019-02-12 00:48:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.75 Mbit/s
95th percentile per-packet one-way delay: 38.046 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 75.75 Mbit/s
95th percentile per-packet one-way delay: 38.046 ms
Loss rate: 0.23%
```

Run 5: Report of TCP Vegas — Data Link

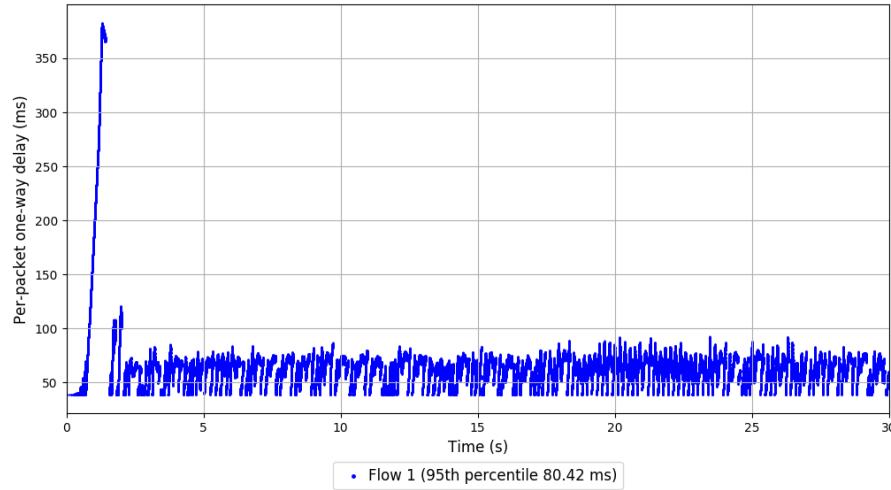
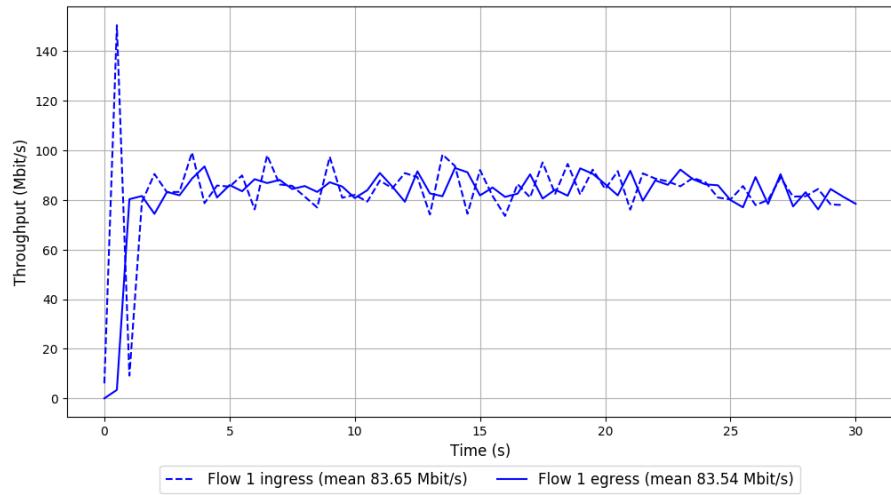


Run 1: Statistics of Verus

```
Start at: 2019-02-11 22:34:41
End at: 2019-02-11 22:35:11
Local clock offset: -0.001 ms
Remote clock offset: -7.155 ms

# Below is generated by plot.py at 2019-02-12 00:49:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 80.416 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 80.416 ms
Loss rate: 0.34%
```

Run 1: Report of Verus — Data Link

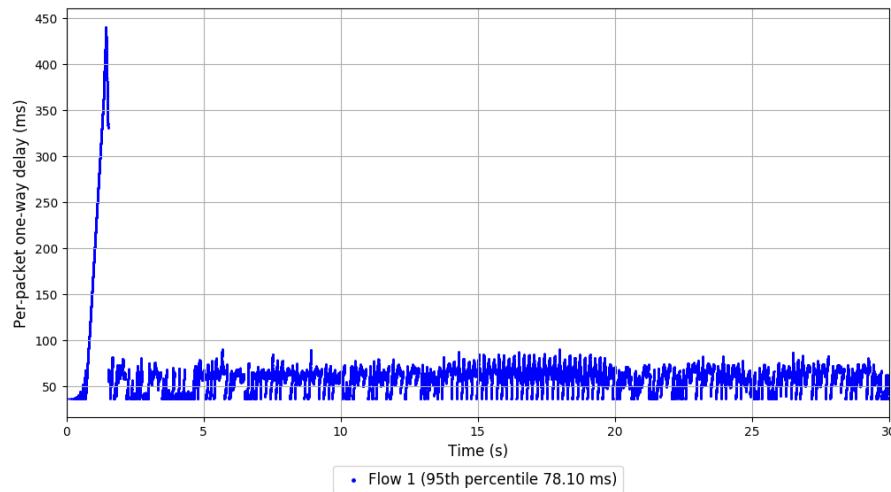
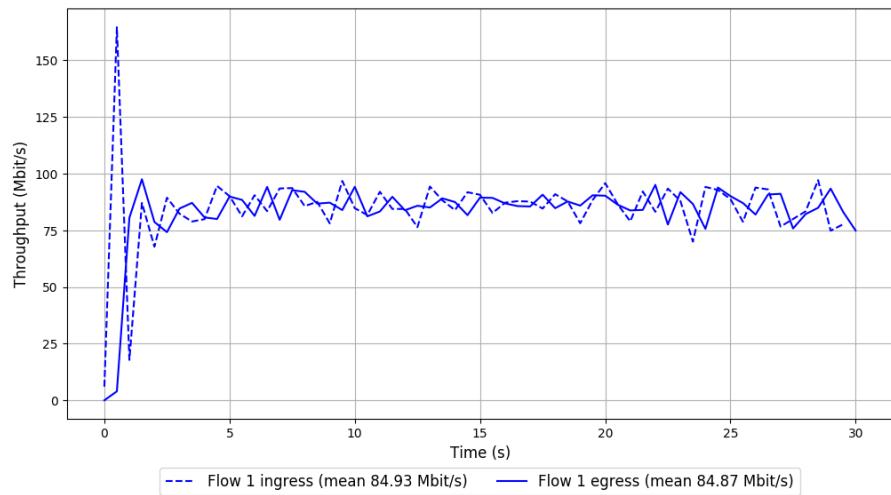


Run 2: Statistics of Verus

```
Start at: 2019-02-11 22:59:38
End at: 2019-02-11 23:00:09
Local clock offset: -0.767 ms
Remote clock offset: -4.565 ms

# Below is generated by plot.py at 2019-02-12 00:49:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.87 Mbit/s
95th percentile per-packet one-way delay: 78.098 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 84.87 Mbit/s
95th percentile per-packet one-way delay: 78.098 ms
Loss rate: 0.28%
```

Run 2: Report of Verus — Data Link

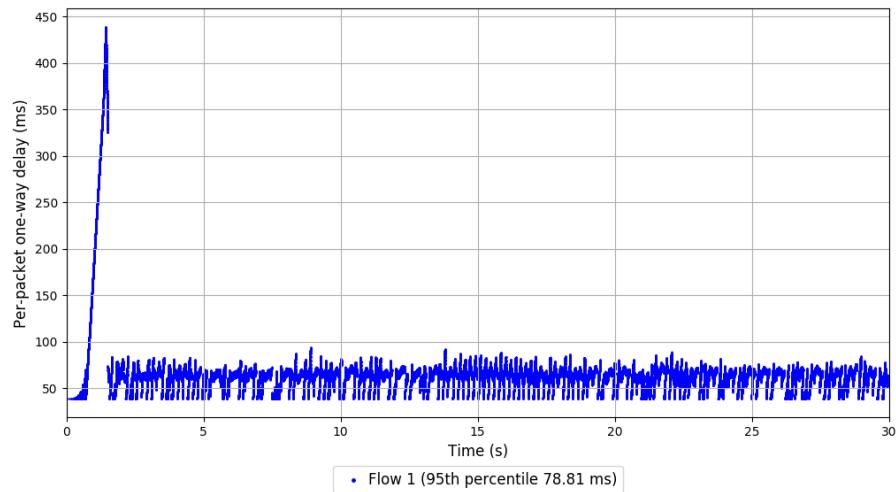
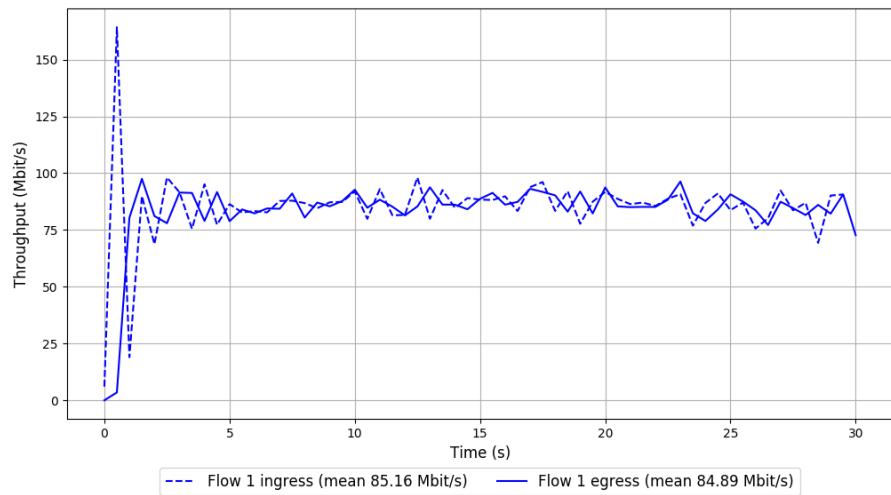


Run 3: Statistics of Verus

```
Start at: 2019-02-11 23:24:19
End at: 2019-02-11 23:24:49
Local clock offset: 0.316 ms
Remote clock offset: -5.633 ms

# Below is generated by plot.py at 2019-02-12 00:49:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.89 Mbit/s
95th percentile per-packet one-way delay: 78.808 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 84.89 Mbit/s
95th percentile per-packet one-way delay: 78.808 ms
Loss rate: 0.51%
```

Run 3: Report of Verus — Data Link

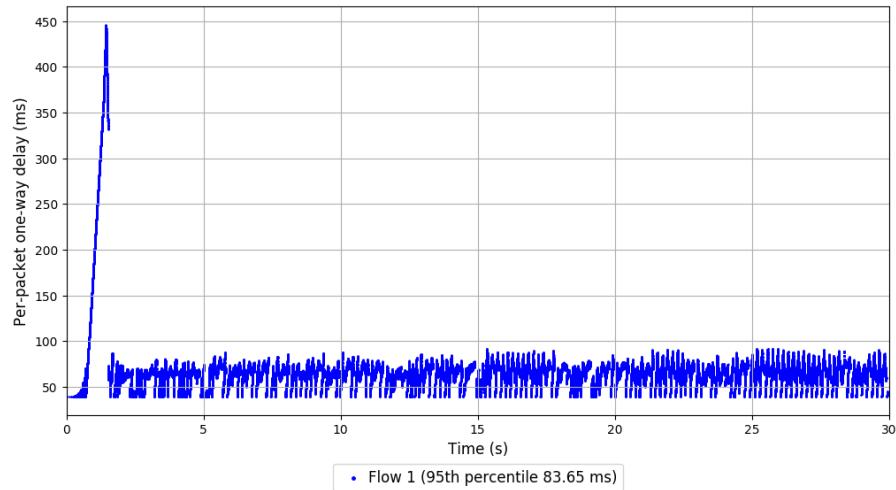
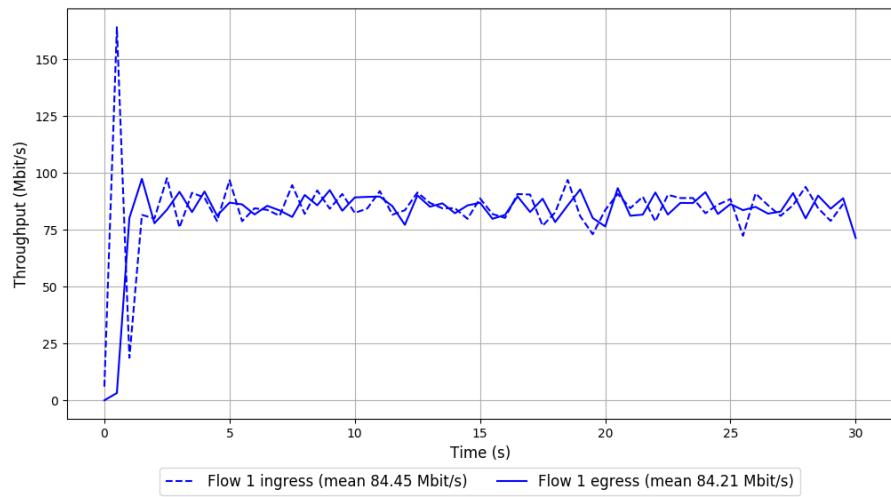


Run 4: Statistics of Verus

```
Start at: 2019-02-11 23:49:03
End at: 2019-02-11 23:49:33
Local clock offset: 0.226 ms
Remote clock offset: -5.954 ms

# Below is generated by plot.py at 2019-02-12 00:49:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.21 Mbit/s
95th percentile per-packet one-way delay: 83.654 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 84.21 Mbit/s
95th percentile per-packet one-way delay: 83.654 ms
Loss rate: 0.50%
```

Run 4: Report of Verus — Data Link

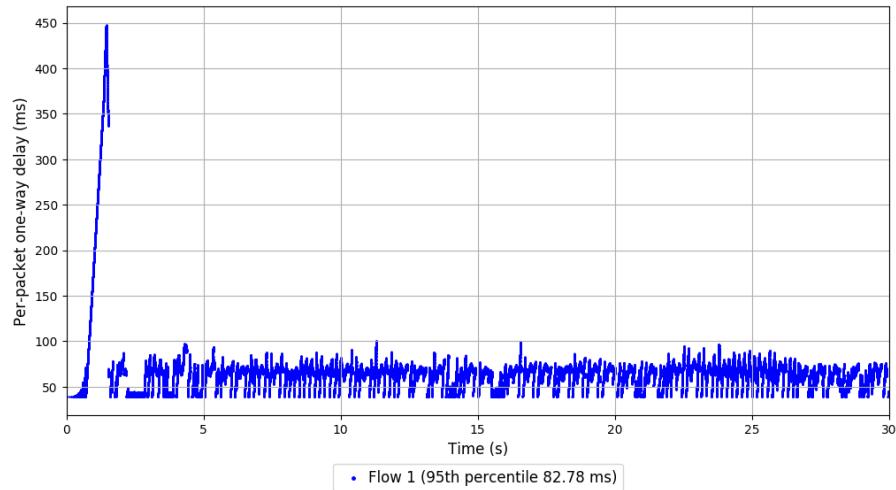
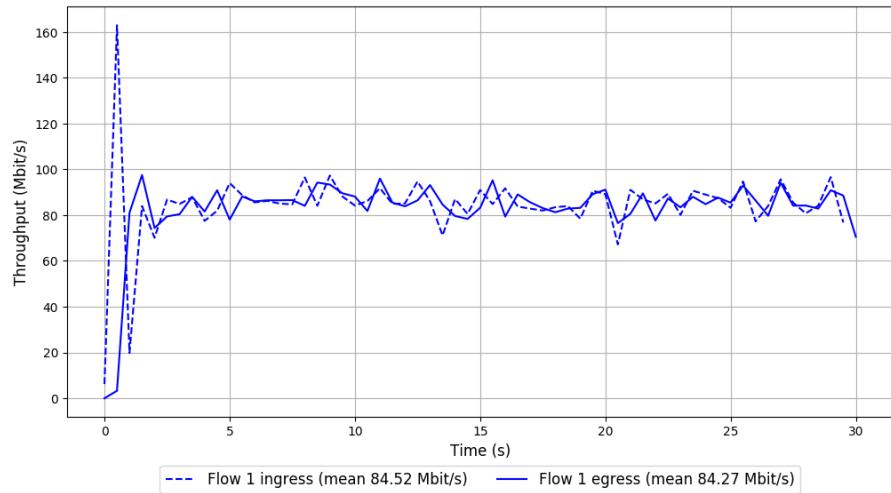


Run 5: Statistics of Verus

```
Start at: 2019-02-12 00:13:52
End at: 2019-02-12 00:14:22
Local clock offset: -2.042 ms
Remote clock offset: -5.351 ms

# Below is generated by plot.py at 2019-02-12 00:49:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 82.783 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 82.783 ms
Loss rate: 0.51%
```

Run 5: Report of Verus — Data Link

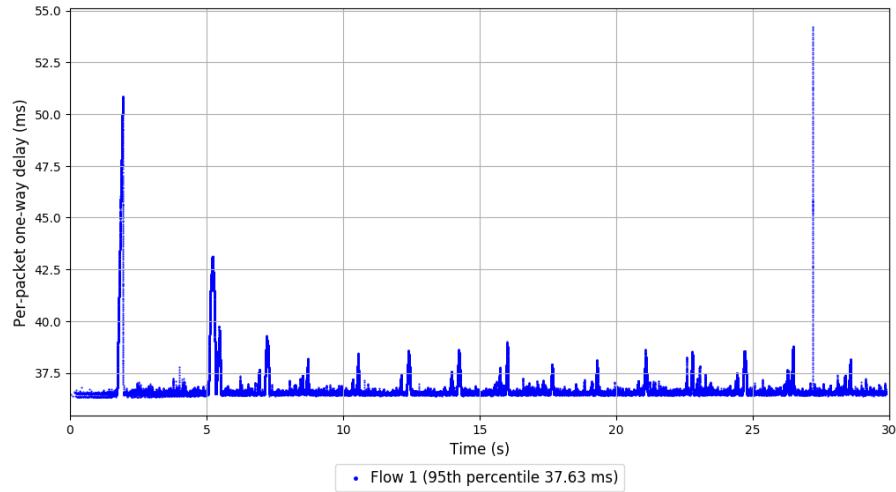
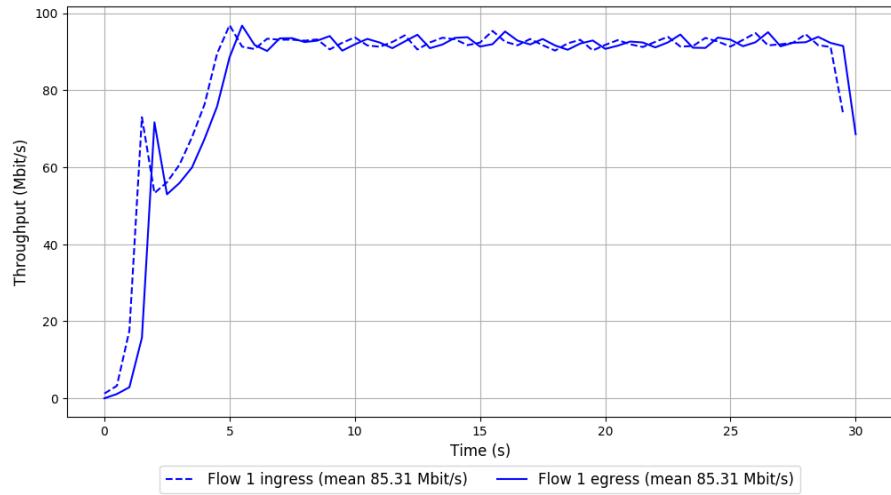


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-02-11 22:45:20
End at: 2019-02-11 22:45:50
Local clock offset: -0.507 ms
Remote clock offset: -4.84 ms

# Below is generated by plot.py at 2019-02-12 00:49:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.31 Mbit/s
95th percentile per-packet one-way delay: 37.631 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 85.31 Mbit/s
95th percentile per-packet one-way delay: 37.631 ms
Loss rate: 0.23%
```

Run 1: Report of PCC-Vivace — Data Link

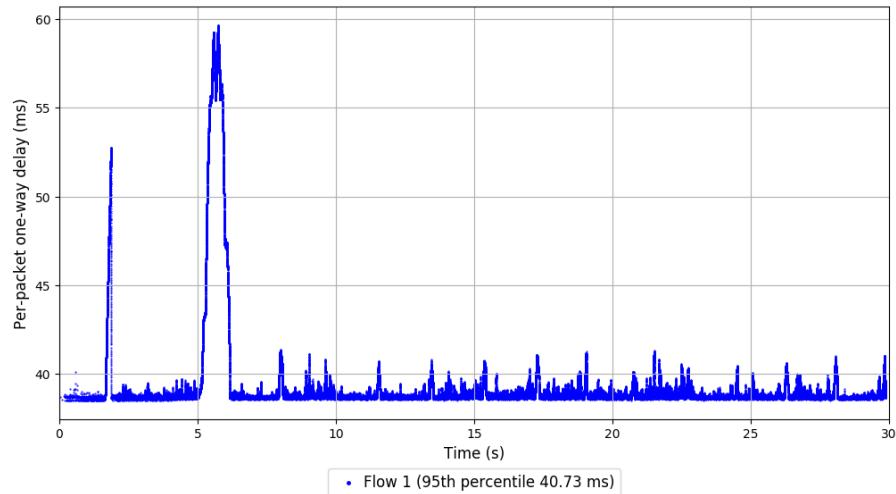
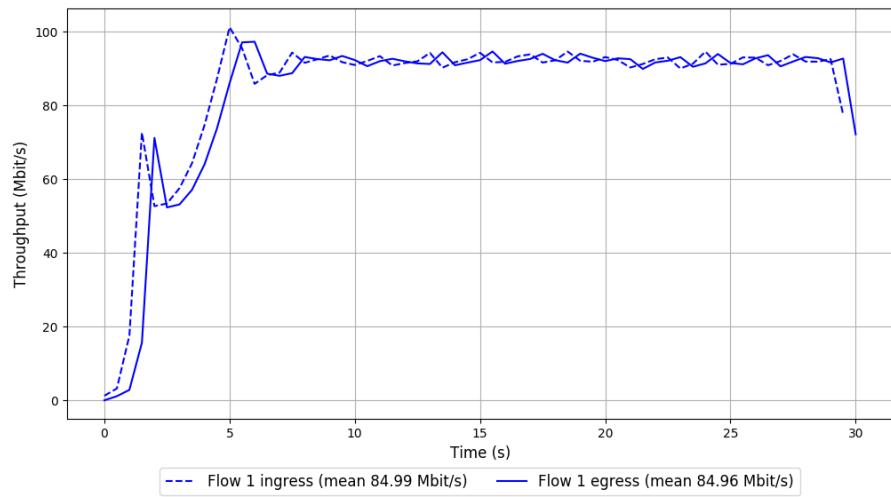


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-02-11 23:10:08
End at: 2019-02-11 23:10:38
Local clock offset: -0.237 ms
Remote clock offset: -6.226 ms

# Below is generated by plot.py at 2019-02-12 00:49:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.96 Mbit/s
95th percentile per-packet one-way delay: 40.725 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 84.96 Mbit/s
95th percentile per-packet one-way delay: 40.725 ms
Loss rate: 0.25%
```

Run 2: Report of PCC-Vivace — Data Link

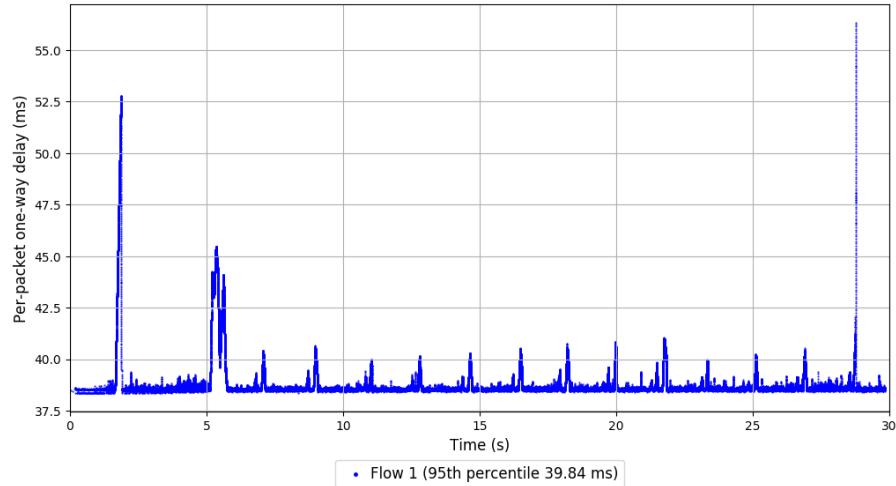
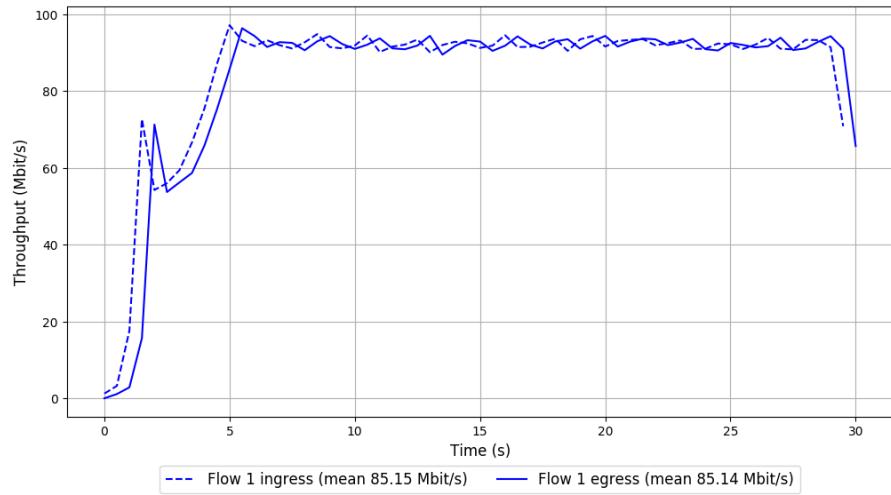


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-02-11 23:34:57
End at: 2019-02-11 23:35:27
Local clock offset: 0.407 ms
Remote clock offset: -5.287 ms

# Below is generated by plot.py at 2019-02-12 00:49:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.14 Mbit/s
95th percentile per-packet one-way delay: 39.838 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 85.14 Mbit/s
95th percentile per-packet one-way delay: 39.838 ms
Loss rate: 0.24%
```

Run 3: Report of PCC-Vivace — Data Link

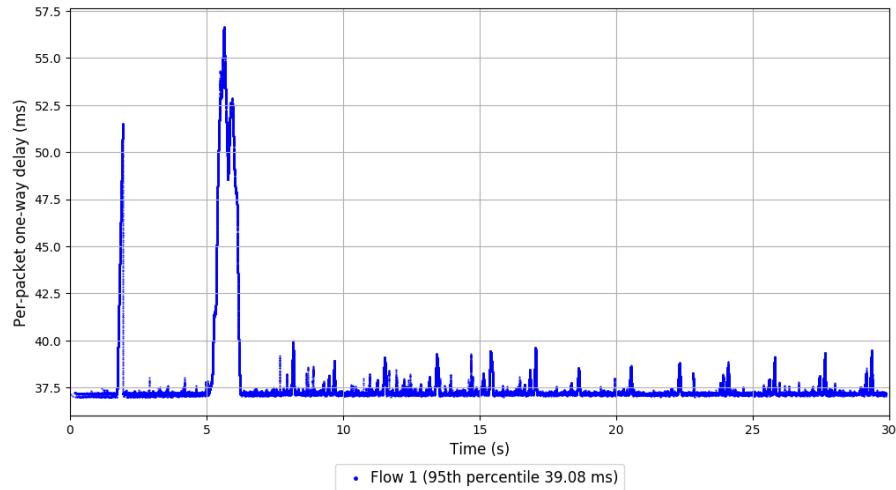
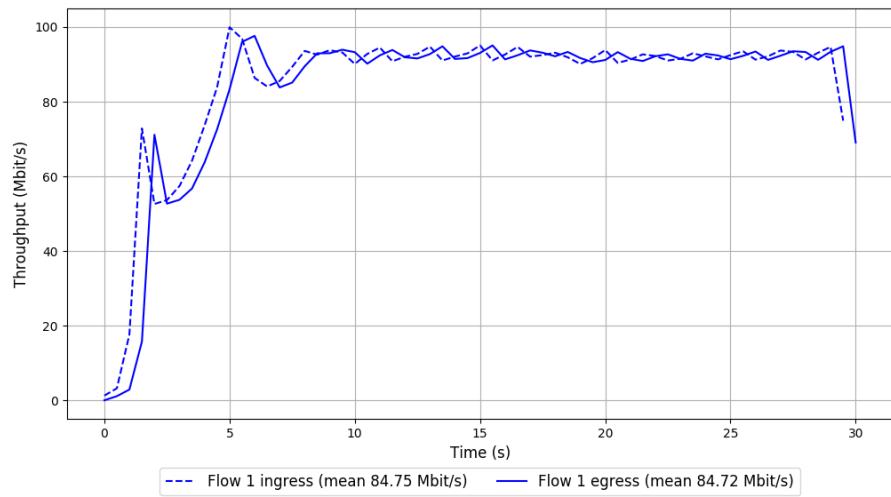


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-02-11 23:59:32
End at: 2019-02-12 00:00:02
Local clock offset: 0.213 ms
Remote clock offset: -3.813 ms

# Below is generated by plot.py at 2019-02-12 00:49:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.72 Mbit/s
95th percentile per-packet one-way delay: 39.080 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 84.72 Mbit/s
95th percentile per-packet one-way delay: 39.080 ms
Loss rate: 0.26%
```

Run 4: Report of PCC-Vivace — Data Link

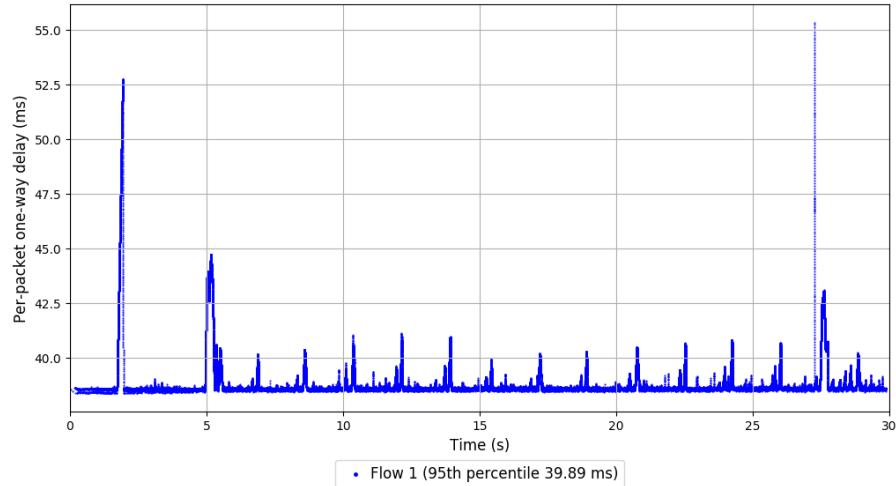
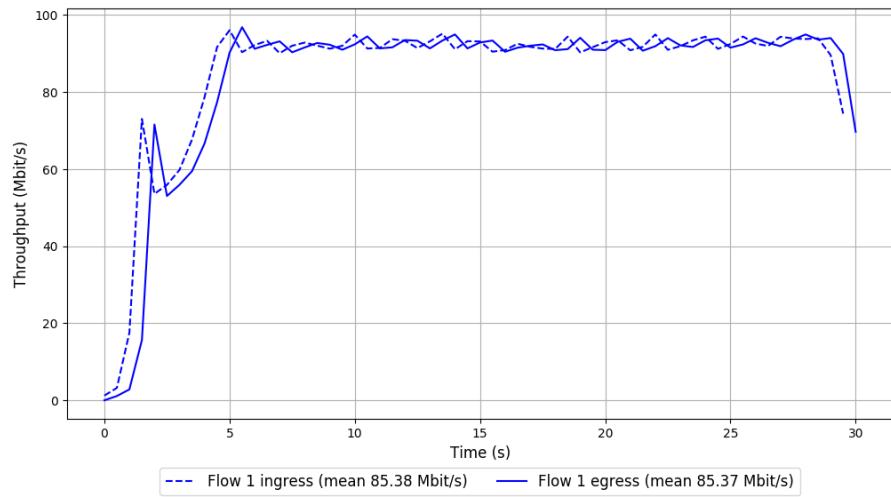


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-02-12 00:24:17
End at: 2019-02-12 00:24:47
Local clock offset: -3.115 ms
Remote clock offset: -4.974 ms

# Below is generated by plot.py at 2019-02-12 00:49:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.37 Mbit/s
95th percentile per-packet one-way delay: 39.887 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 85.37 Mbit/s
95th percentile per-packet one-way delay: 39.887 ms
Loss rate: 0.23%
```

Run 5: Report of PCC-Vivace — Data Link

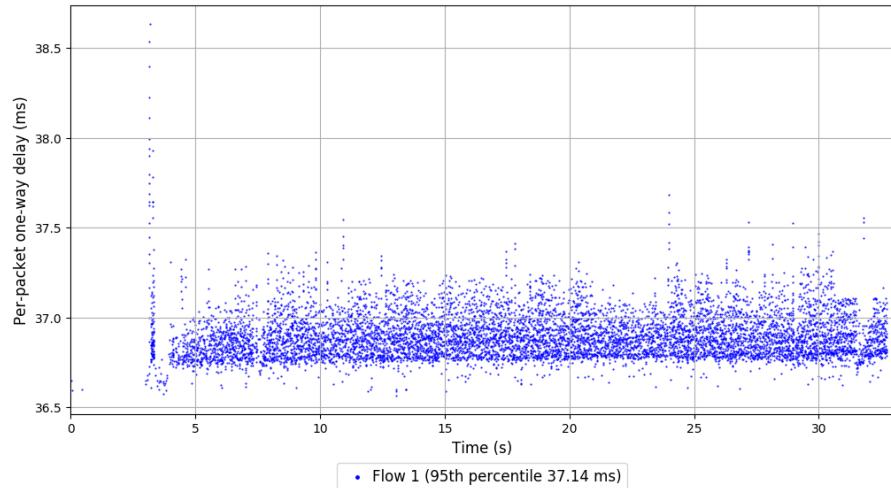
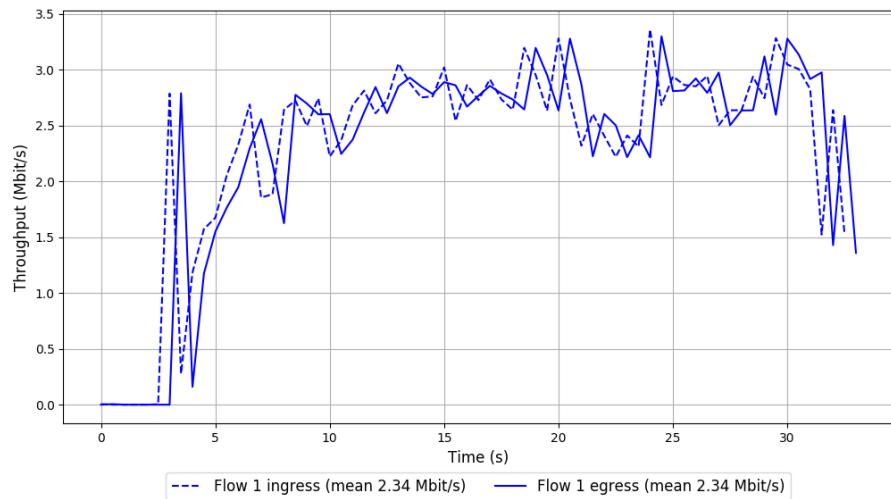


```
Run 1: Statistics of WebRTC media

Start at: 2019-02-11 22:46:40
End at: 2019-02-11 22:47:10
Local clock offset: -0.538 ms
Remote clock offset: -5.056 ms

# Below is generated by plot.py at 2019-02-12 00:49:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 37.139 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 37.139 ms
Loss rate: 0.24%
```

Run 1: Report of WebRTC media — Data Link

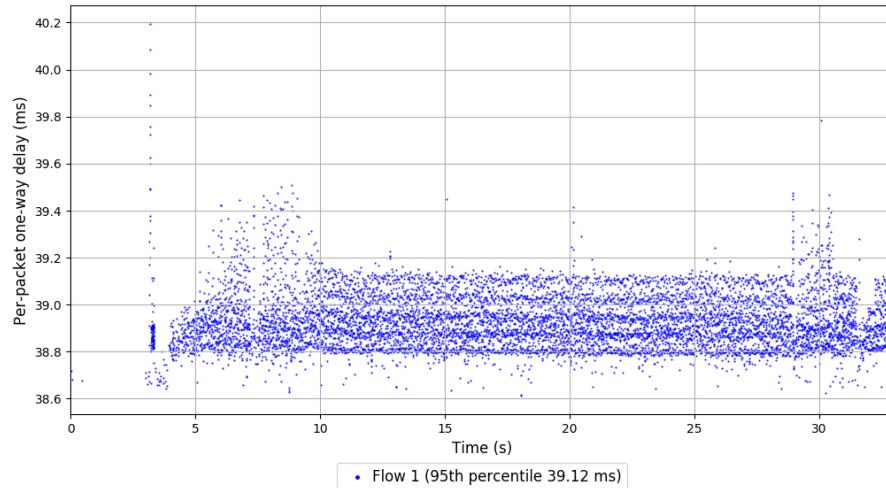
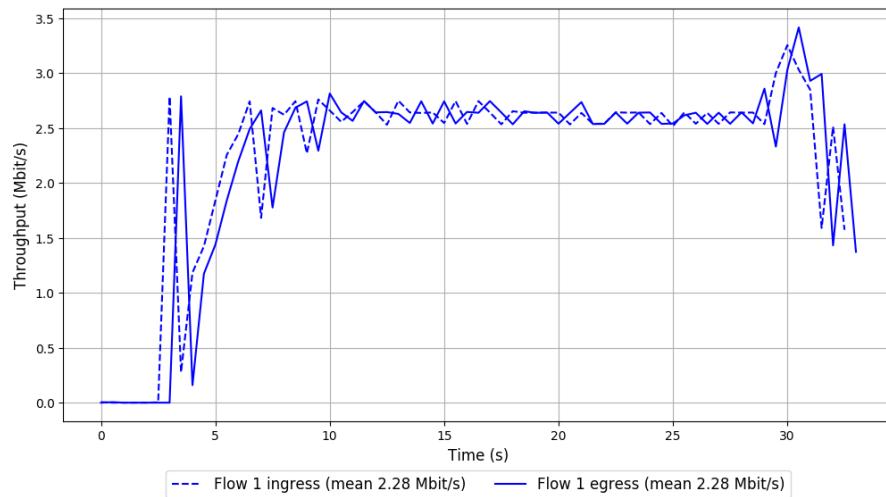


Run 2: Statistics of WebRTC media

```
Start at: 2019-02-11 23:11:20
End at: 2019-02-11 23:11:51
Local clock offset: -0.153 ms
Remote clock offset: -6.298 ms

# Below is generated by plot.py at 2019-02-12 00:49:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 39.121 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 39.121 ms
Loss rate: 0.26%
```

Run 2: Report of WebRTC media — Data Link

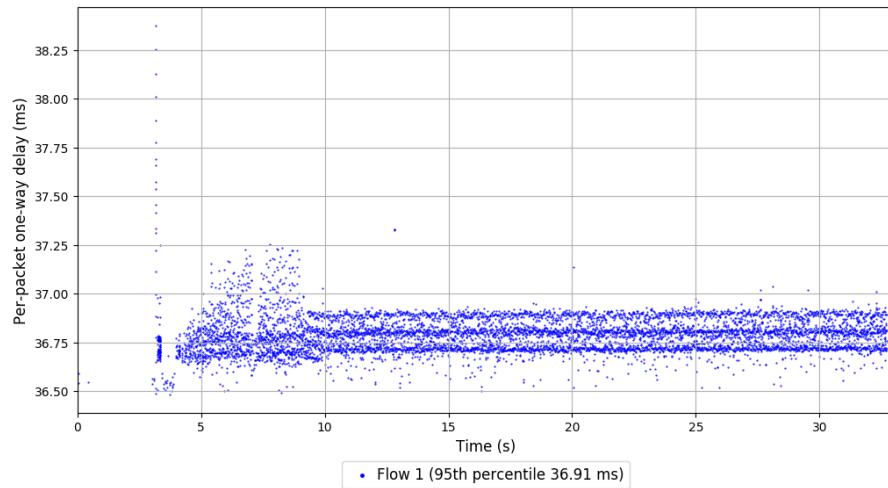
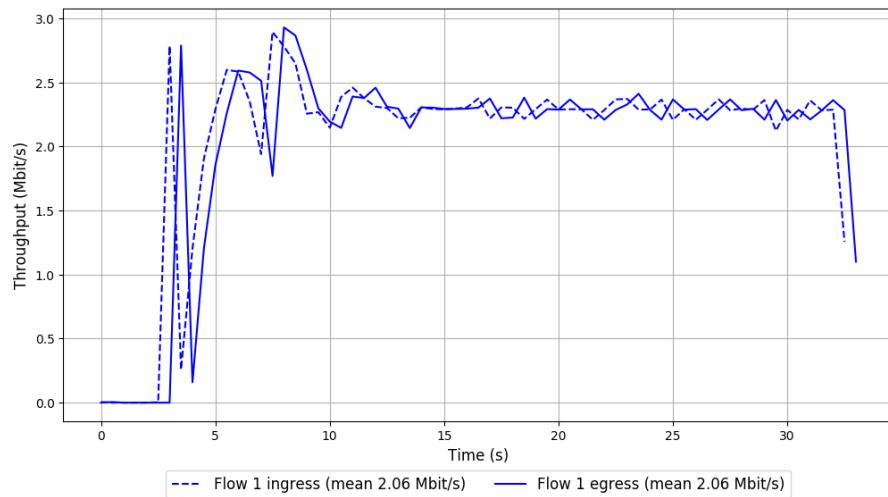


Run 3: Statistics of WebRTC media

```
Start at: 2019-02-11 23:36:08
End at: 2019-02-11 23:36:38
Local clock offset: 0.388 ms
Remote clock offset: -3.445 ms

# Below is generated by plot.py at 2019-02-12 00:49:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 36.911 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 36.911 ms
Loss rate: 0.23%
```

Run 3: Report of WebRTC media — Data Link

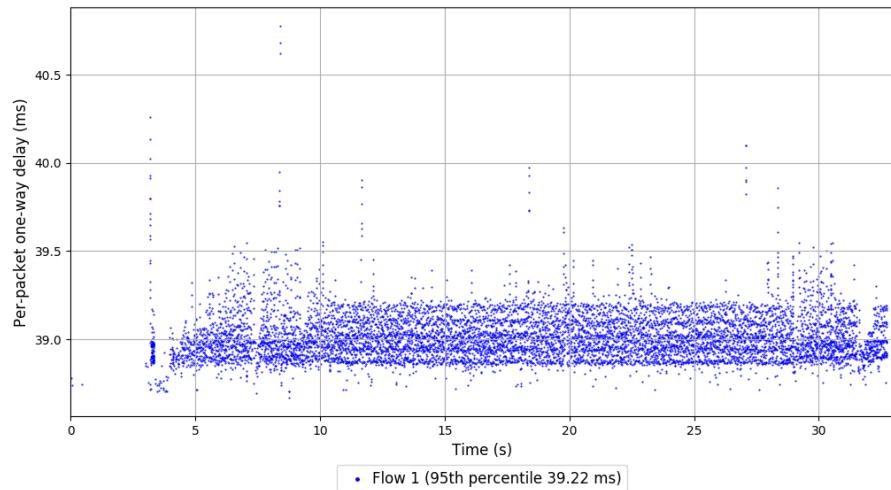
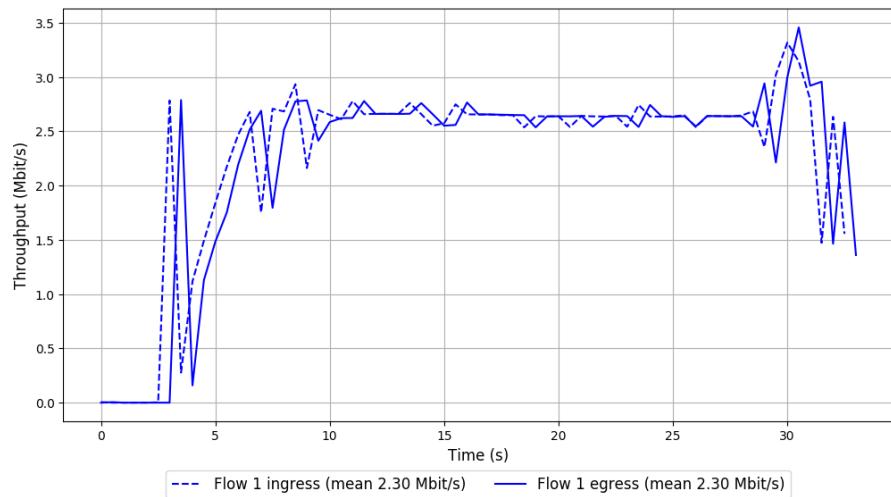


Run 4: Statistics of WebRTC media

```
Start at: 2019-02-12 00:00:46
End at: 2019-02-12 00:01:16
Local clock offset: 0.21 ms
Remote clock offset: -5.465 ms

# Below is generated by plot.py at 2019-02-12 00:49:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 39.224 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 39.224 ms
Loss rate: 0.26%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-02-12 00:25:28
End at: 2019-02-12 00:25:58
Local clock offset: -3.206 ms
Remote clock offset: -3.419 ms

# Below is generated by plot.py at 2019-02-12 00:49:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 37.295 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 37.295 ms
Loss rate: 0.25%
```

Run 5: Report of WebRTC media — Data Link

