

Pantheon Report

Generated at 2019-03-27 08:49:05 (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.

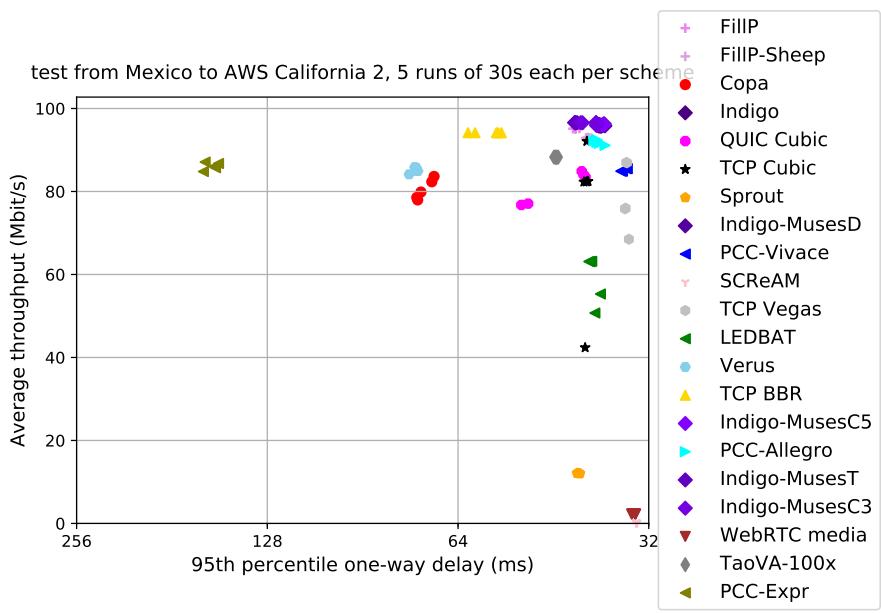
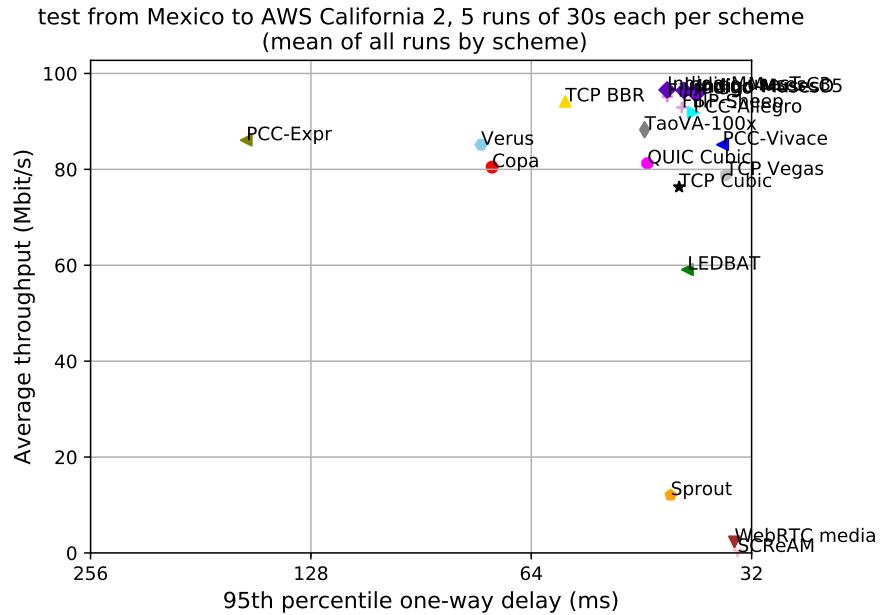
System info:

```
Linux 4.15.0-1034-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



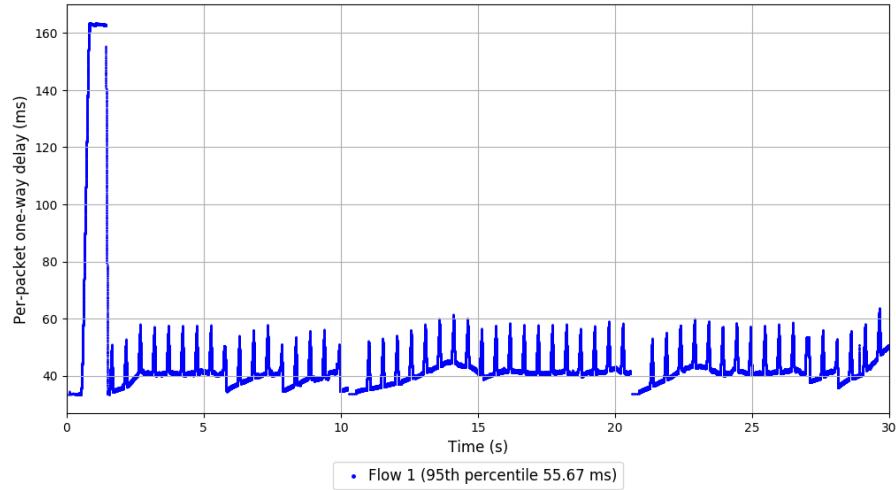
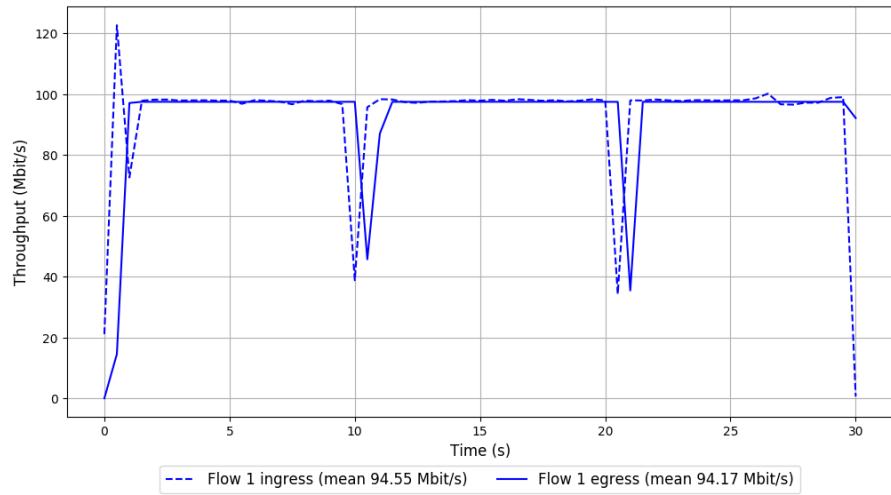
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	94.17	57.51	0.62
Copa	5	80.47	72.39	0.30
TCP Cubic	5	76.32	40.19	0.29
FillP	5	95.16	41.72	0.24
FillP-Sheep	5	92.92	39.85	0.25
Indigo	5	95.80	38.15	0.23
Indigo-MusesC3	5	96.44	39.58	0.24
Indigo-MusesC5	5	96.11	38.09	0.24
Indigo-MusesD	5	96.06	37.92	0.23
Indigo-MusesT	5	96.58	41.75	0.90
LEDBAT	5	59.08	39.17	0.25
PCC-Allegro	5	91.84	38.41	0.25
PCC-Expr	5	86.08	156.91	0.29
QUIC Cubic	5	81.24	44.42	0.28
SCReAM	5	0.21	33.45	0.26
Sprout	5	12.07	41.28	0.26
TaoVA-100x	5	88.26	44.81	0.22
TCP Vegas	5	78.84	34.69	0.27
Verus	5	85.13	74.96	0.43
PCC-Vivace	5	85.15	35.06	0.24
WebRTC media	5	2.30	33.77	0.24

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-27 06:54:27
End at: 2019-03-27 06:54:57
Local clock offset: 1.917 ms
Remote clock offset: 2.007 ms

# Below is generated by plot.py at 2019-03-27 08:36:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 55.666 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 55.666 ms
Loss rate: 0.61%
```

Run 1: Report of TCP BBR — Data Link

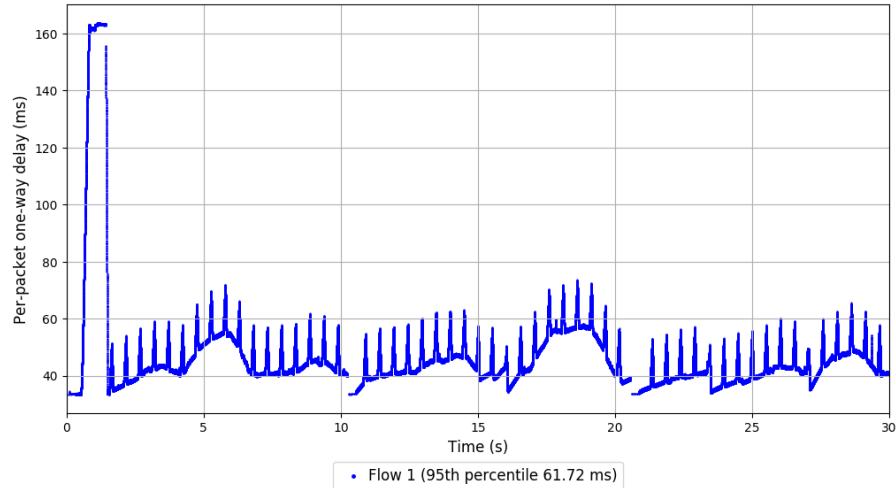
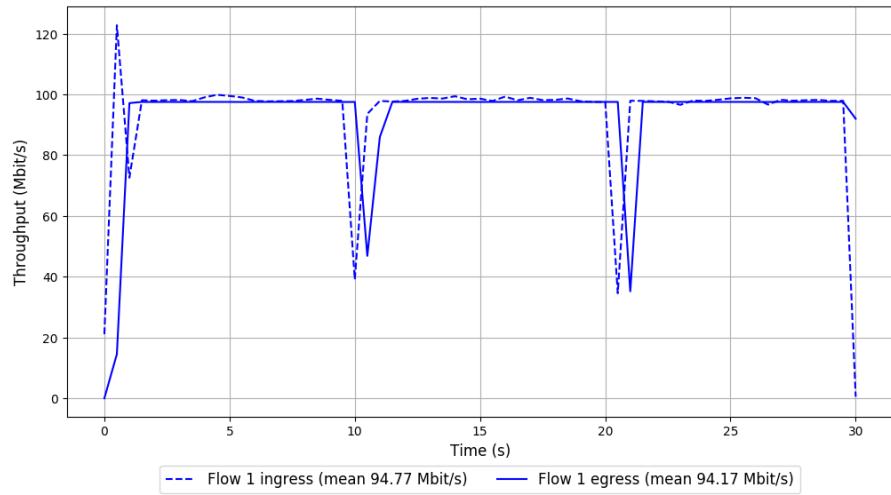


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-27 07:18:58
End at: 2019-03-27 07:19:28
Local clock offset: 0.278 ms
Remote clock offset: 2.927 ms

# Below is generated by plot.py at 2019-03-27 08:36:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 61.715 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 61.715 ms
Loss rate: 0.85%
```

Run 2: Report of TCP BBR — Data Link

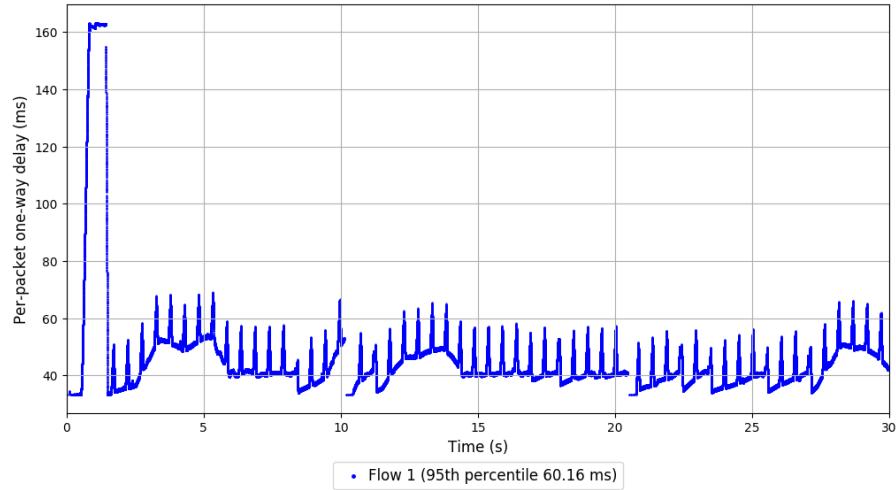
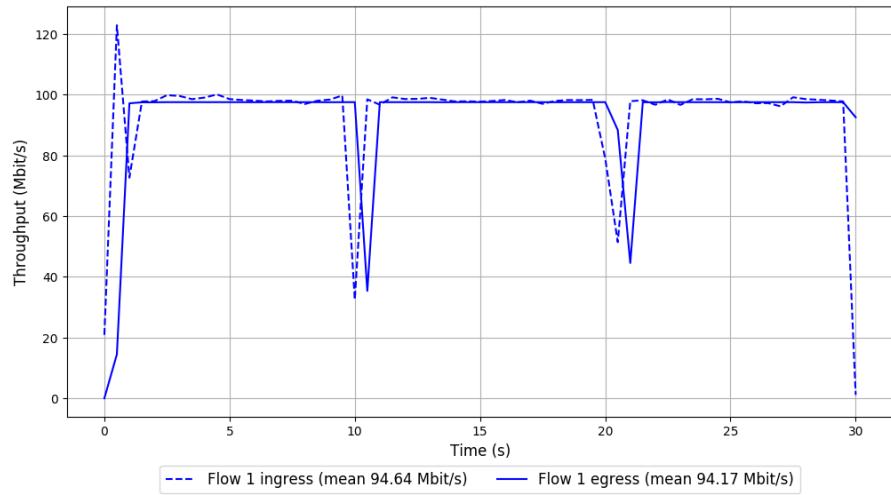


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-27 07:43:27
End at: 2019-03-27 07:43:58
Local clock offset: 0.229 ms
Remote clock offset: 3.25 ms

# Below is generated by plot.py at 2019-03-27 08:36:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 60.159 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 60.159 ms
Loss rate: 0.71%
```

Run 3: Report of TCP BBR — Data Link

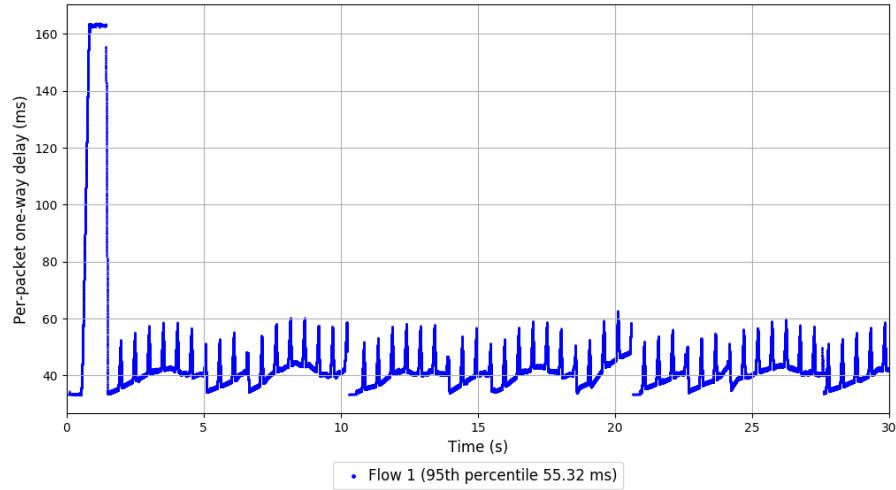
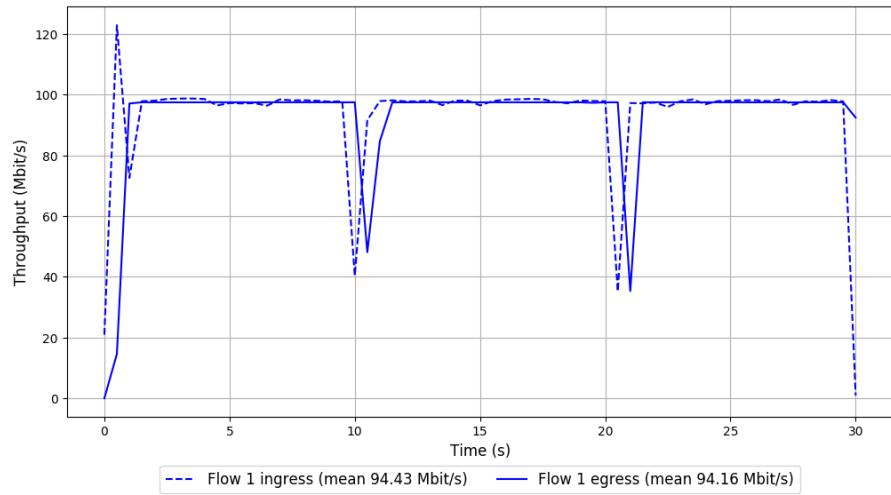


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-27 08:08:07
End at: 2019-03-27 08:08:37
Local clock offset: 0.409 ms
Remote clock offset: 2.343 ms

# Below is generated by plot.py at 2019-03-27 08:36:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 55.317 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 55.317 ms
Loss rate: 0.49%
```

Run 4: Report of TCP BBR — Data Link

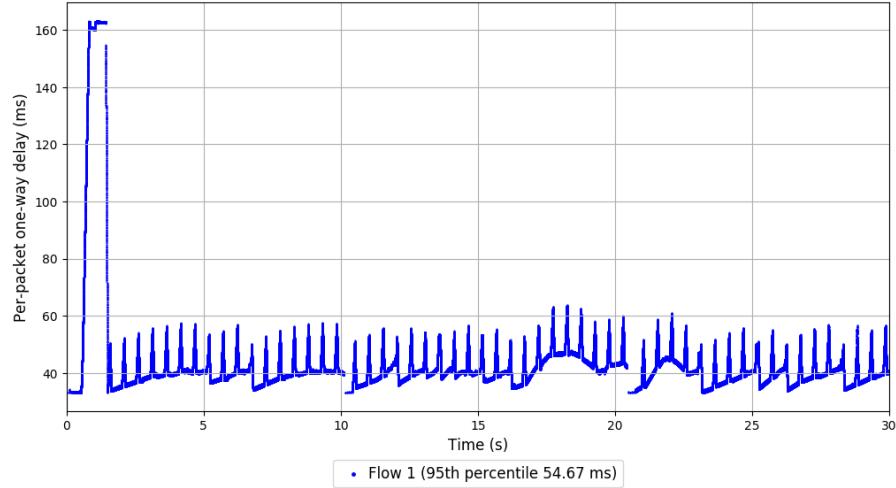
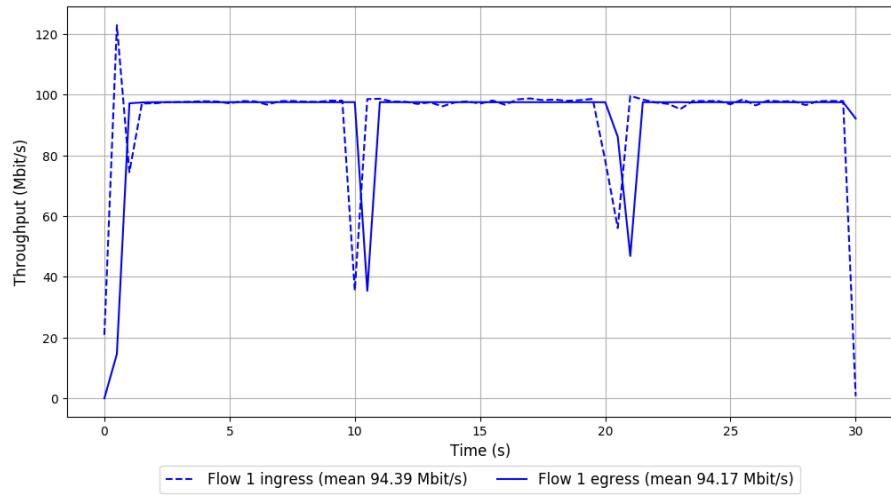


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-27 08:32:38
End at: 2019-03-27 08:33:08
Local clock offset: 3.406 ms
Remote clock offset: 2.019 ms

# Below is generated by plot.py at 2019-03-27 08:36:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 54.672 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 54.672 ms
Loss rate: 0.45%
```

Run 5: Report of TCP BBR — Data Link

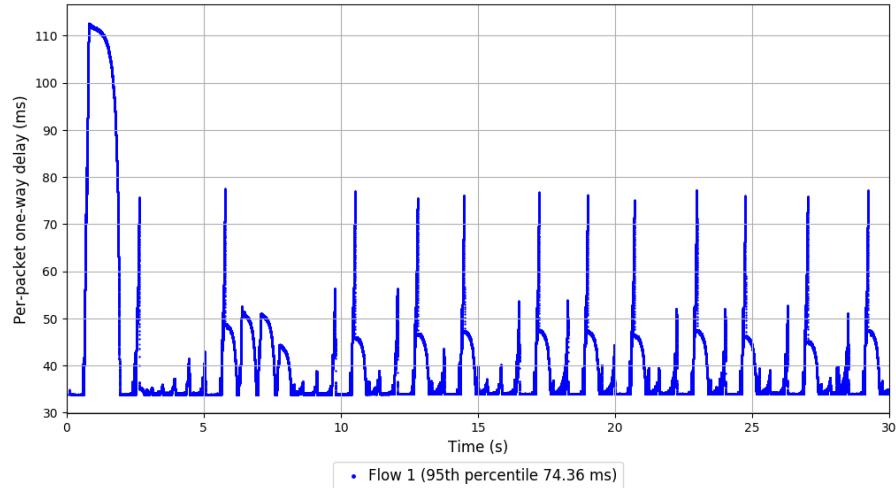
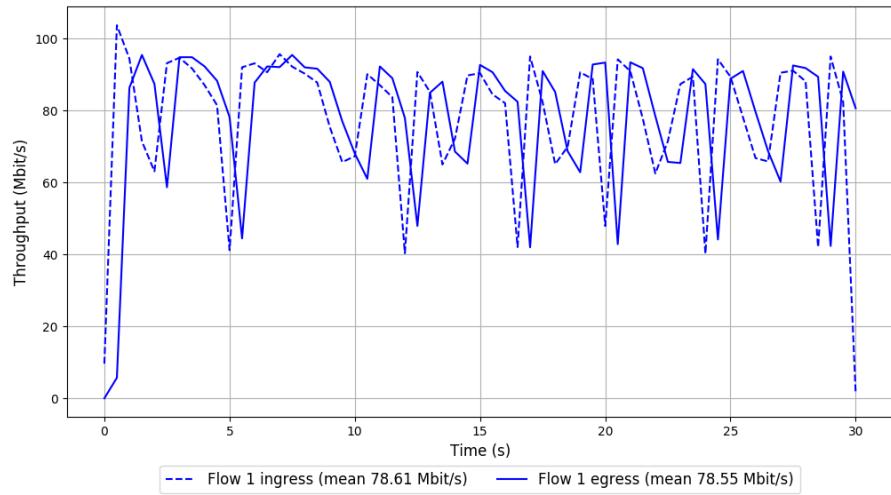


Run 1: Statistics of Copa

```
Start at: 2019-03-27 06:48:38
End at: 2019-03-27 06:49:08
Local clock offset: 3.646 ms
Remote clock offset: 1.402 ms

# Below is generated by plot.py at 2019-03-27 08:36:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.55 Mbit/s
95th percentile per-packet one-way delay: 74.356 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 78.55 Mbit/s
95th percentile per-packet one-way delay: 74.356 ms
Loss rate: 0.29%
```

Run 1: Report of Copa — Data Link

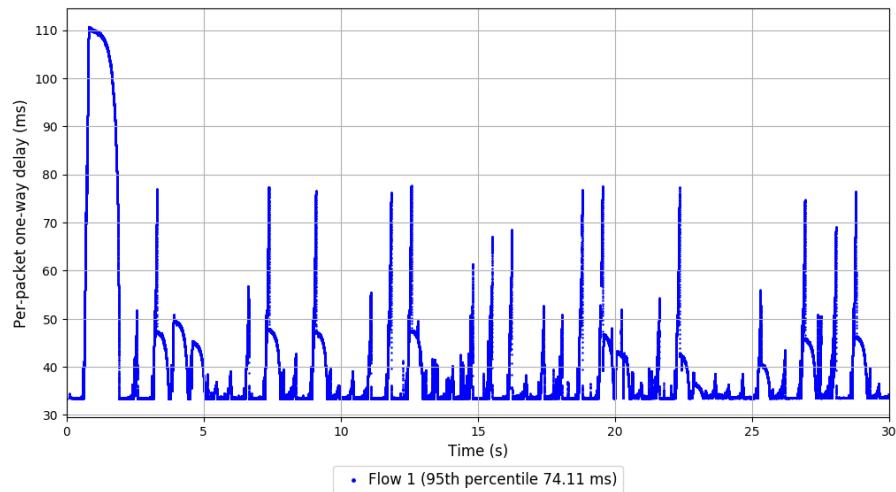
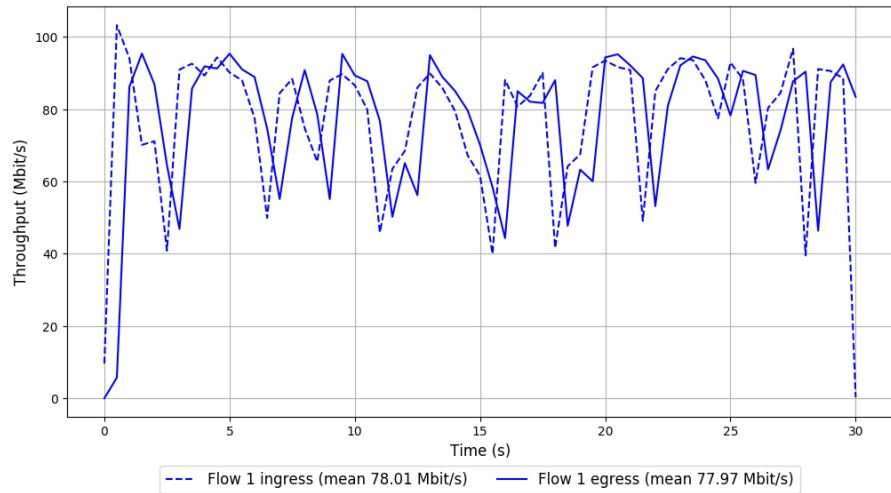


Run 2: Statistics of Copa

```
Start at: 2019-03-27 07:13:12
End at: 2019-03-27 07:13:42
Local clock offset: 0.365 ms
Remote clock offset: 2.649 ms

# Below is generated by plot.py at 2019-03-27 08:36:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.97 Mbit/s
95th percentile per-packet one-way delay: 74.111 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 77.97 Mbit/s
95th percentile per-packet one-way delay: 74.111 ms
Loss rate: 0.27%
```

Run 2: Report of Copa — Data Link

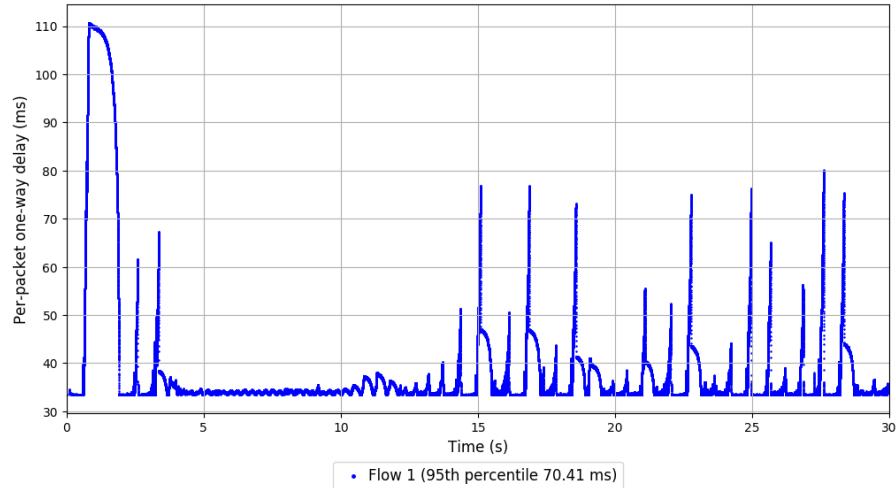
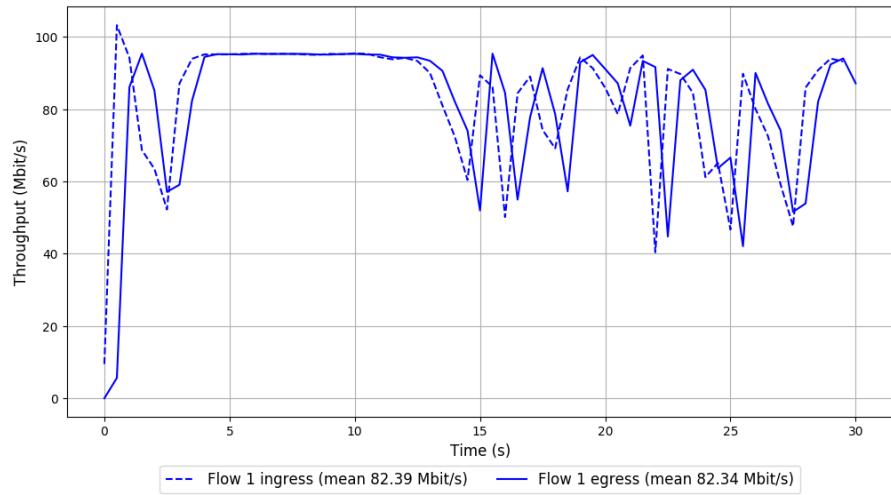


Run 3: Statistics of Copa

```
Start at: 2019-03-27 07:37:41
End at: 2019-03-27 07:38:11
Local clock offset: 0.216 ms
Remote clock offset: 3.273 ms

# Below is generated by plot.py at 2019-03-27 08:37:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.34 Mbit/s
95th percentile per-packet one-way delay: 70.405 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 82.34 Mbit/s
95th percentile per-packet one-way delay: 70.405 ms
Loss rate: 0.27%
```

Run 3: Report of Copa — Data Link

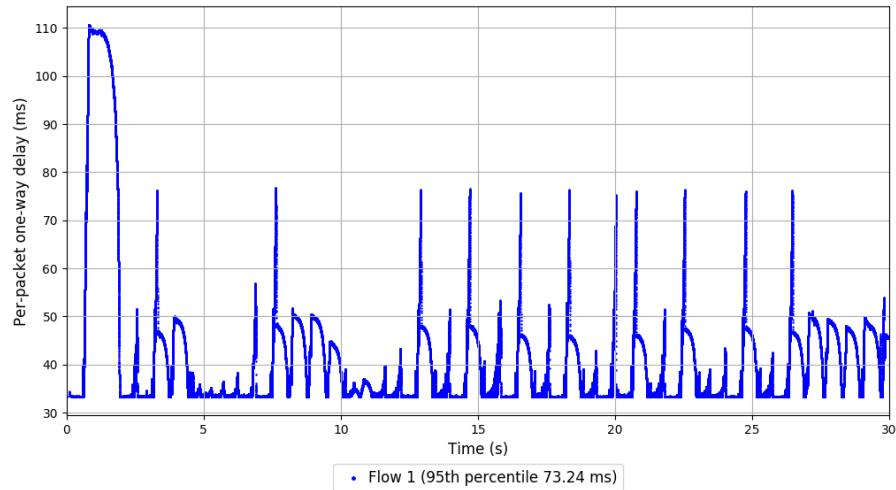
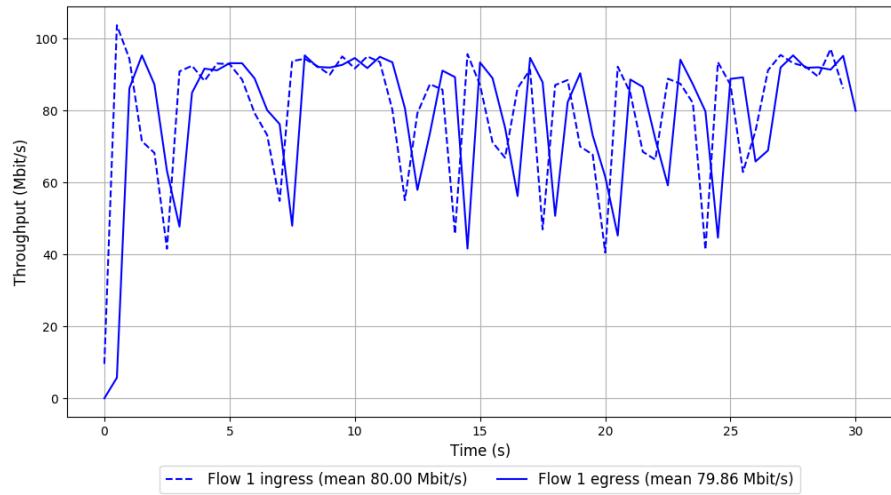


Run 4: Statistics of Copa

```
Start at: 2019-03-27 08:02:21
End at: 2019-03-27 08:02:51
Local clock offset: 0.369 ms
Remote clock offset: 2.512 ms

# Below is generated by plot.py at 2019-03-27 08:38:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.86 Mbit/s
95th percentile per-packet one-way delay: 73.237 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 79.86 Mbit/s
95th percentile per-packet one-way delay: 73.237 ms
Loss rate: 0.39%
```

Run 4: Report of Copa — Data Link

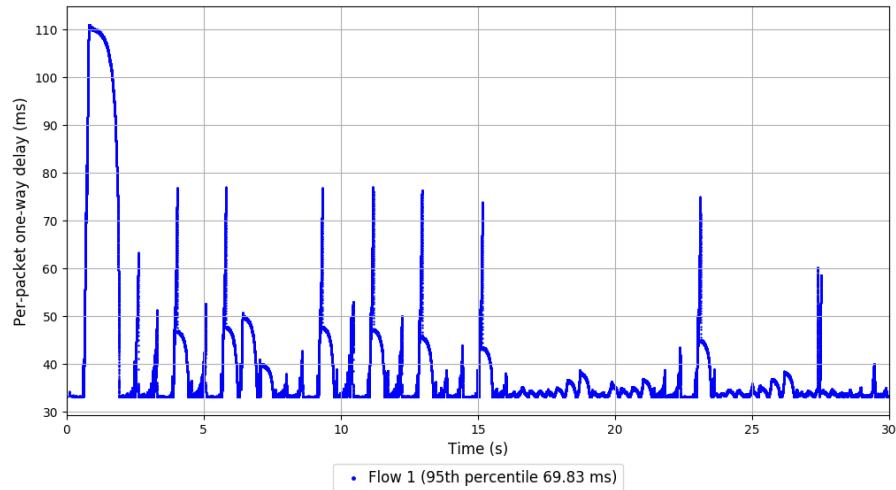
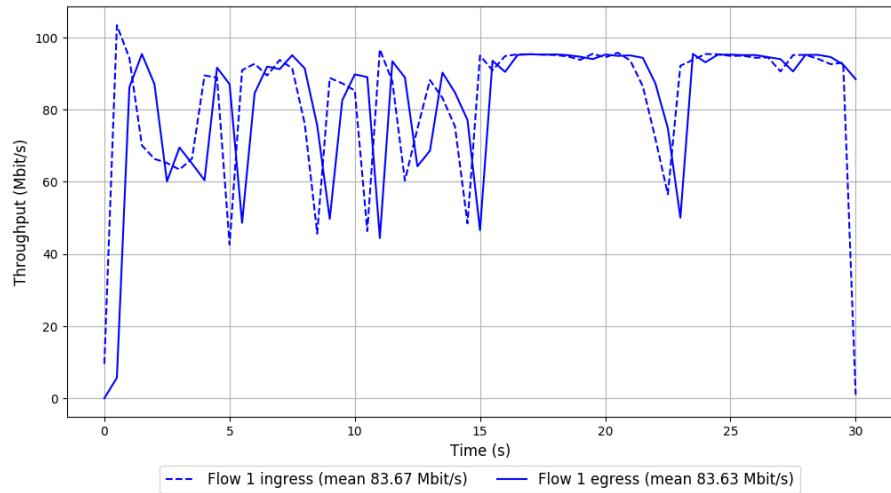


Run 5: Statistics of Copa

```
Start at: 2019-03-27 08:26:51
End at: 2019-03-27 08:27:21
Local clock offset: 2.778 ms
Remote clock offset: 2.063 ms

# Below is generated by plot.py at 2019-03-27 08:38:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.63 Mbit/s
95th percentile per-packet one-way delay: 69.827 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 83.63 Mbit/s
95th percentile per-packet one-way delay: 69.827 ms
Loss rate: 0.26%
```

Run 5: Report of Copa — Data Link

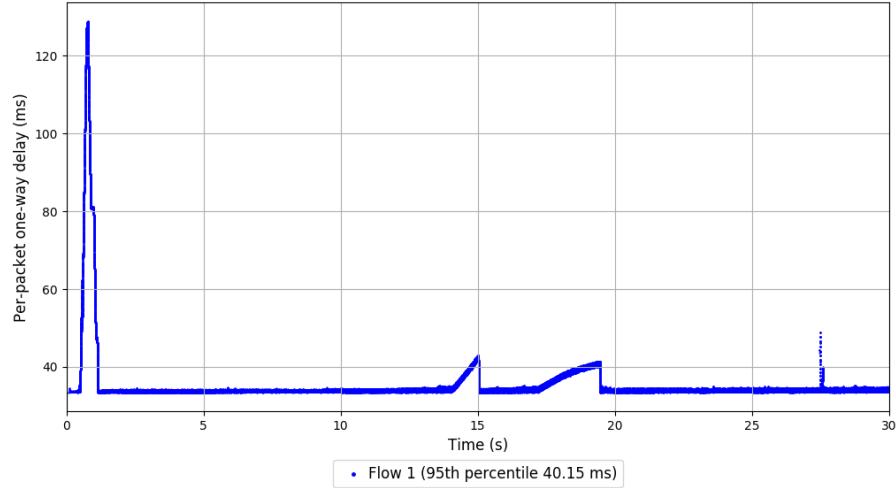
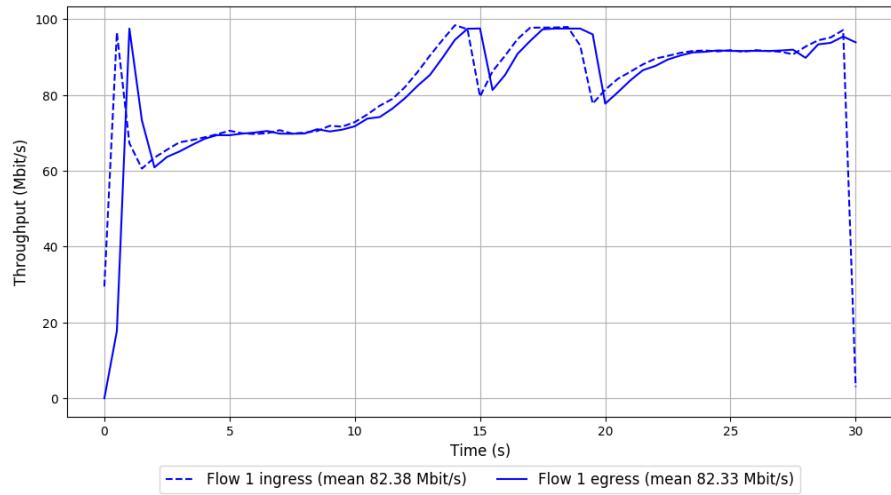


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-03-27 06:41:34
End at: 2019-03-27 06:42:04
Local clock offset: 4.535 ms
Remote clock offset: 1.158 ms

# Below is generated by plot.py at 2019-03-27 08:38:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.33 Mbit/s
95th percentile per-packet one-way delay: 40.148 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 82.33 Mbit/s
95th percentile per-packet one-way delay: 40.148 ms
Loss rate: 0.26%
```

Run 1: Report of TCP Cubic — Data Link

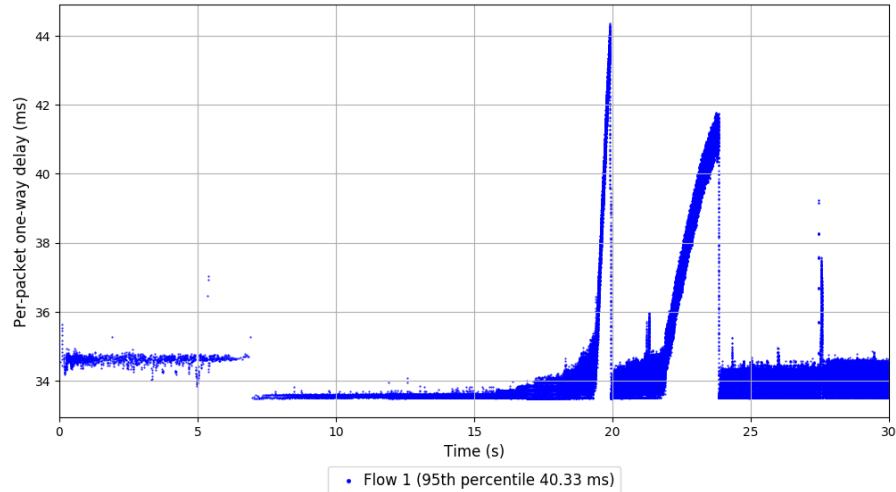
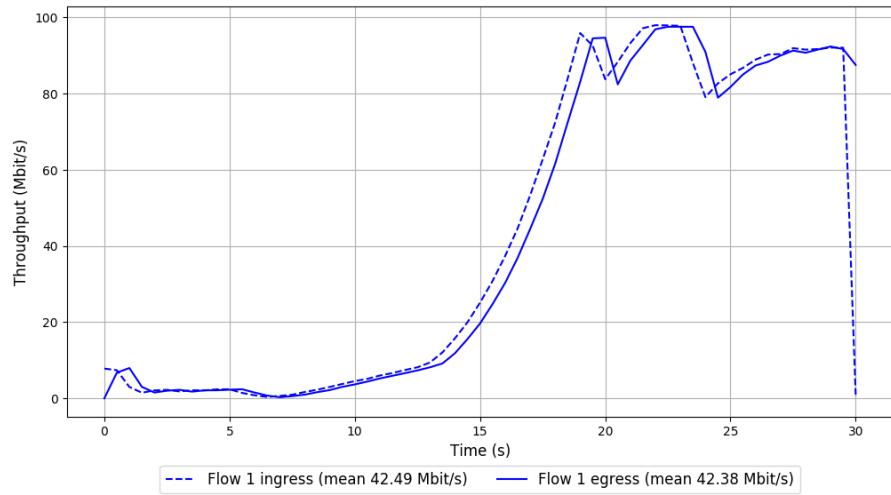


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-27 07:06:11
End at: 2019-03-27 07:06:41
Local clock offset: 0.659 ms
Remote clock offset: 2.395 ms

# Below is generated by plot.py at 2019-03-27 08:38:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.38 Mbit/s
95th percentile per-packet one-way delay: 40.326 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 42.38 Mbit/s
95th percentile per-packet one-way delay: 40.326 ms
Loss rate: 0.49%
```

Run 2: Report of TCP Cubic — Data Link

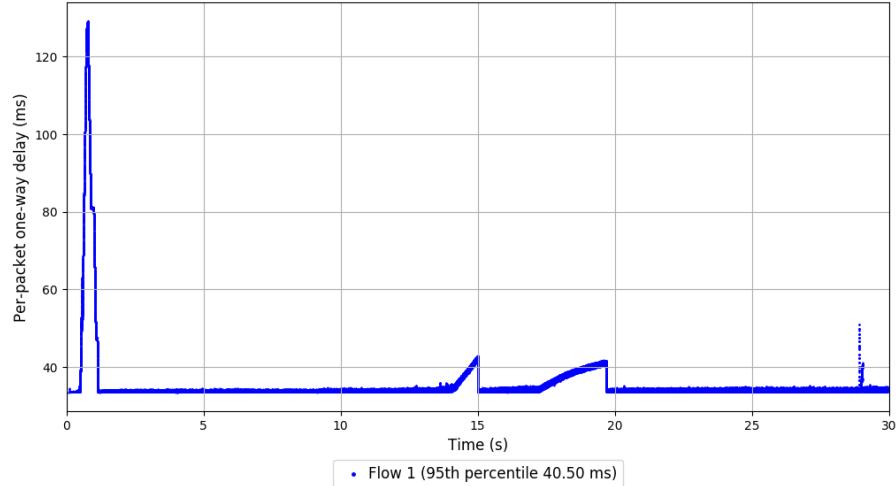
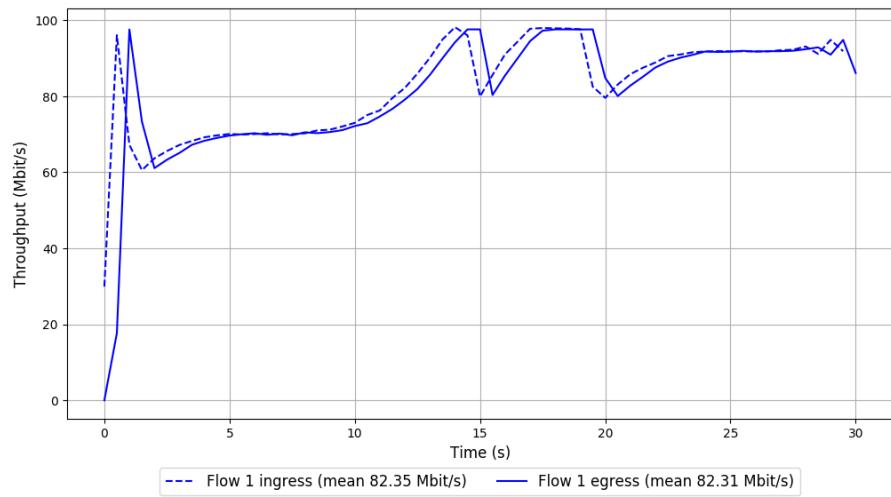


Run 3: Statistics of TCP Cubic

```
Start at: 2019-03-27 07:30:39
End at: 2019-03-27 07:31:09
Local clock offset: 0.209 ms
Remote clock offset: 3.209 ms

# Below is generated by plot.py at 2019-03-27 08:38:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.31 Mbit/s
95th percentile per-packet one-way delay: 40.504 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 82.31 Mbit/s
95th percentile per-packet one-way delay: 40.504 ms
Loss rate: 0.26%
```

Run 3: Report of TCP Cubic — Data Link

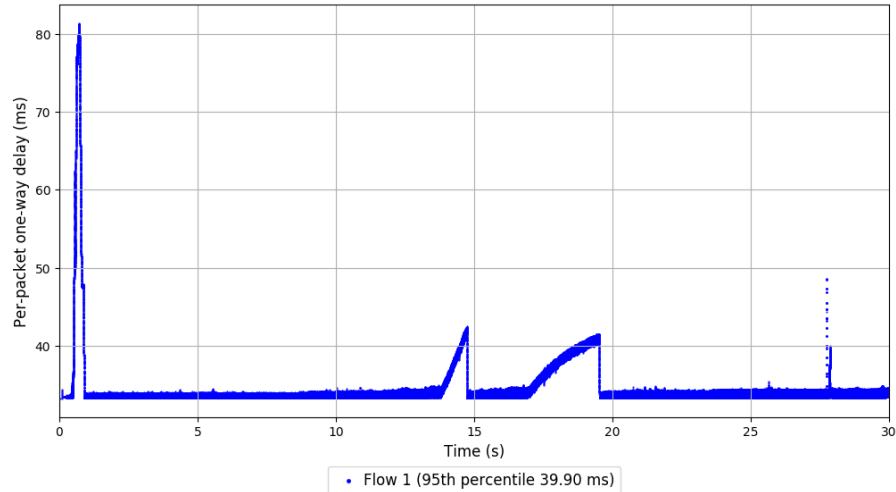
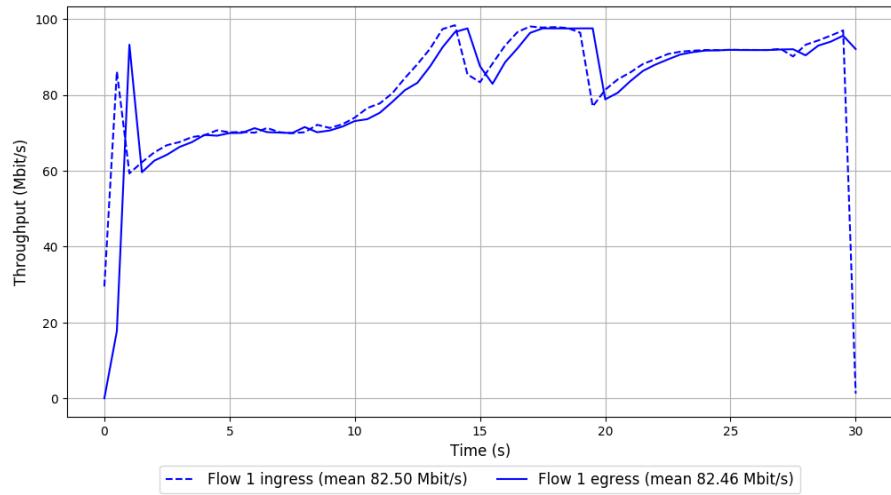


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-27 07:55:18
End at: 2019-03-27 07:55:48
Local clock offset: 0.337 ms
Remote clock offset: 2.787 ms

# Below is generated by plot.py at 2019-03-27 08:38:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.46 Mbit/s
95th percentile per-packet one-way delay: 39.904 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 82.46 Mbit/s
95th percentile per-packet one-way delay: 39.904 ms
Loss rate: 0.26%
```

Run 4: Report of TCP Cubic — Data Link

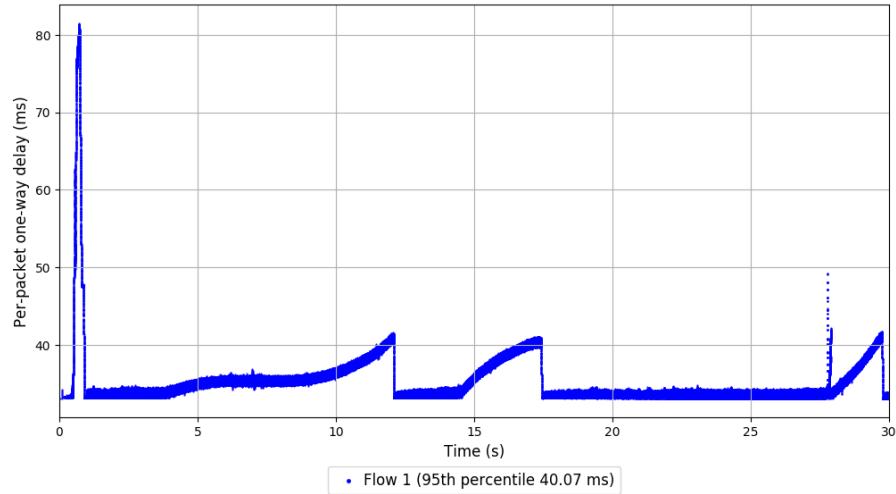
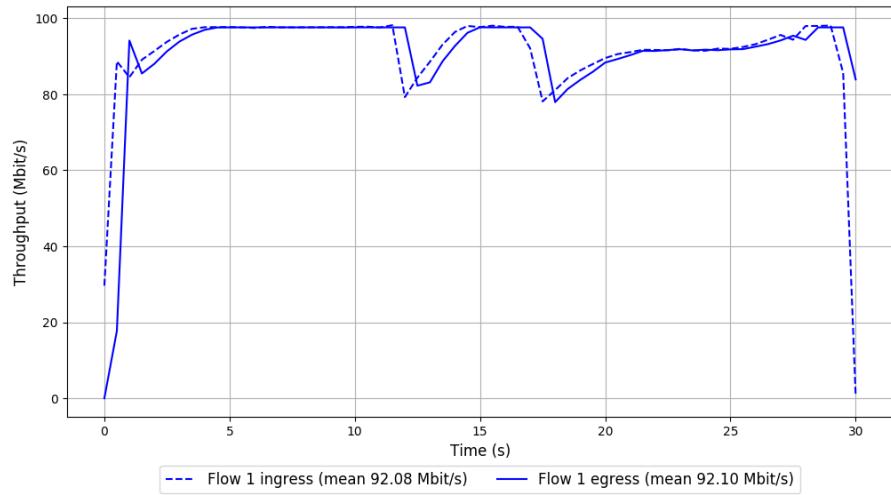


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-27 08:19:48
End at: 2019-03-27 08:20:18
Local clock offset: 1.536 ms
Remote clock offset: 2.101 ms

# Below is generated by plot.py at 2019-03-27 08:38:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.10 Mbit/s
95th percentile per-packet one-way delay: 40.073 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 92.10 Mbit/s
95th percentile per-packet one-way delay: 40.073 ms
Loss rate: 0.19%
```

Run 5: Report of TCP Cubic — Data Link

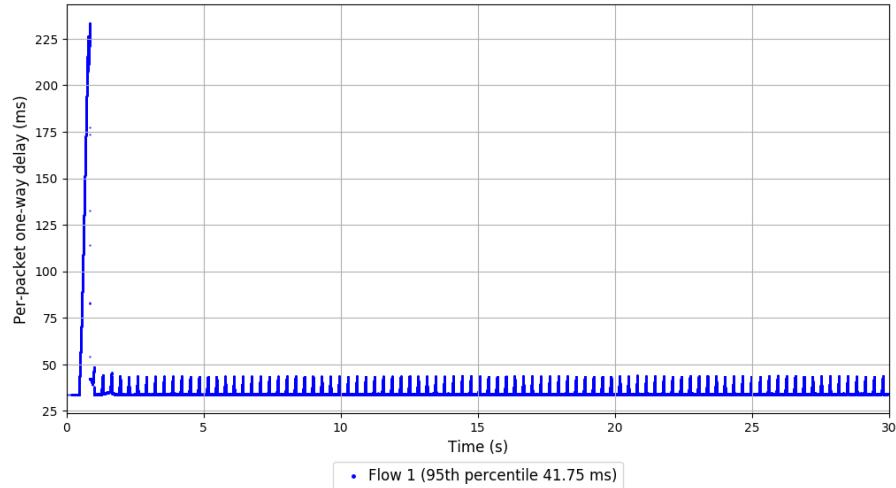
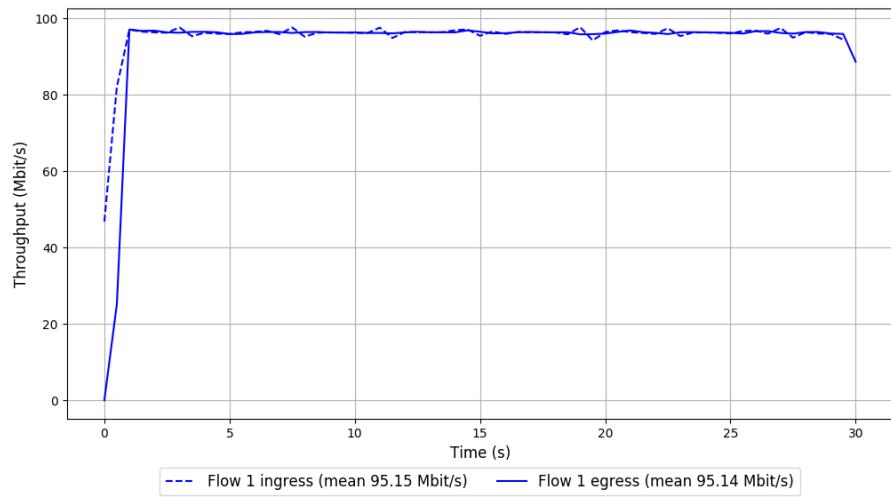


```
Run 1: Statistics of FillP
```

```
Start at: 2019-03-27 06:47:28
End at: 2019-03-27 06:47:58
Local clock offset: 4.101 ms
Remote clock offset: 1.351 ms

# Below is generated by plot.py at 2019-03-27 08:38:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.14 Mbit/s
95th percentile per-packet one-way delay: 41.749 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.14 Mbit/s
95th percentile per-packet one-way delay: 41.749 ms
Loss rate: 0.22%
```

Run 1: Report of FillP — Data Link

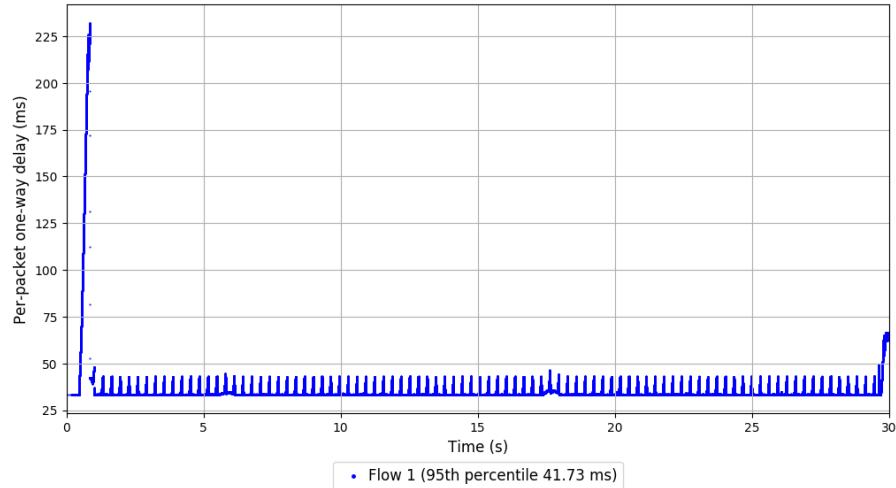
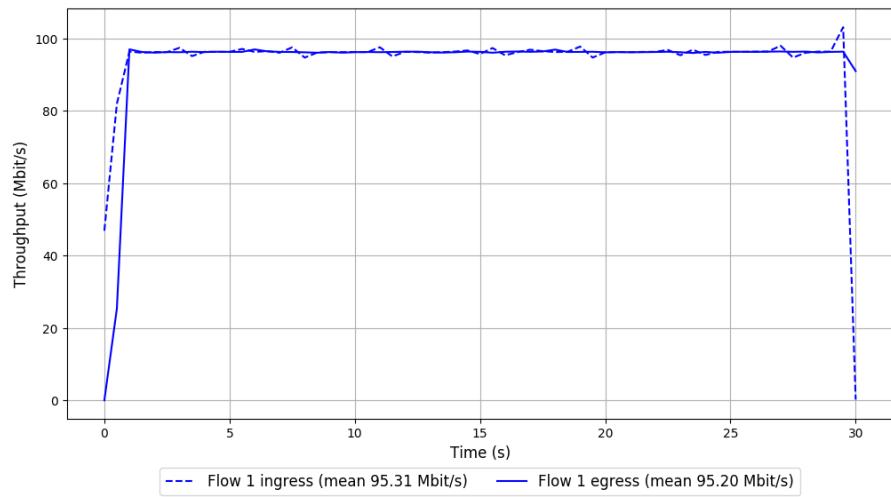


Run 2: Statistics of FillP

```
Start at: 2019-03-27 07:12:02
End at: 2019-03-27 07:12:32
Local clock offset: 0.423 ms
Remote clock offset: 2.633 ms

# Below is generated by plot.py at 2019-03-27 08:38:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 41.729 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 41.729 ms
Loss rate: 0.33%
```

Run 2: Report of FillP — Data Link

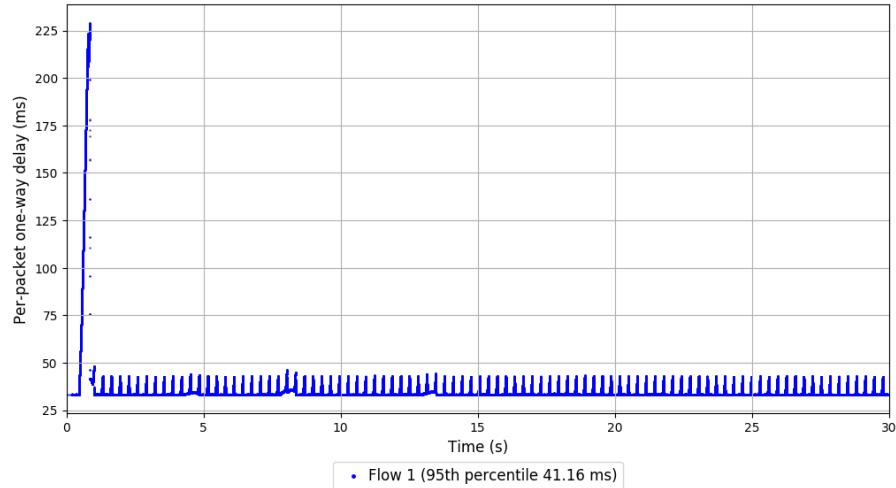
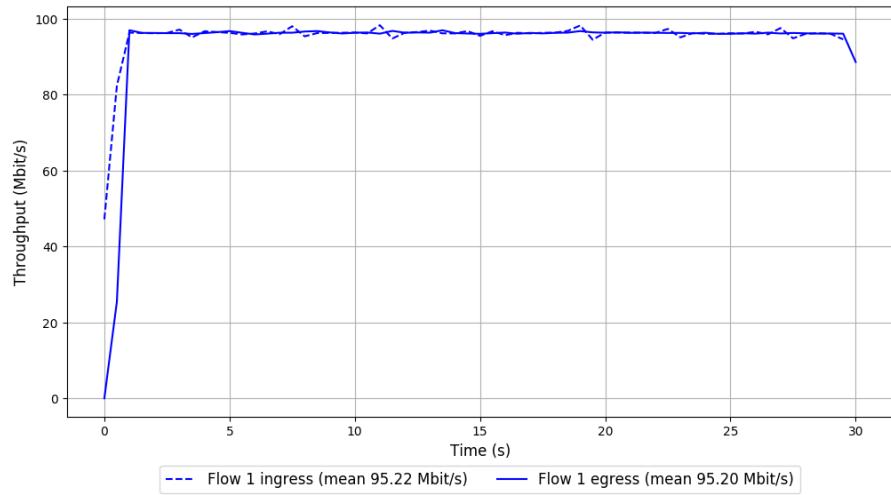


Run 3: Statistics of FillP

```
Start at: 2019-03-27 07:36:31
End at: 2019-03-27 07:37:01
Local clock offset: 0.21 ms
Remote clock offset: 3.501 ms

# Below is generated by plot.py at 2019-03-27 08:38:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 41.165 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 41.165 ms
Loss rate: 0.23%
```

Run 3: Report of FillP — Data Link

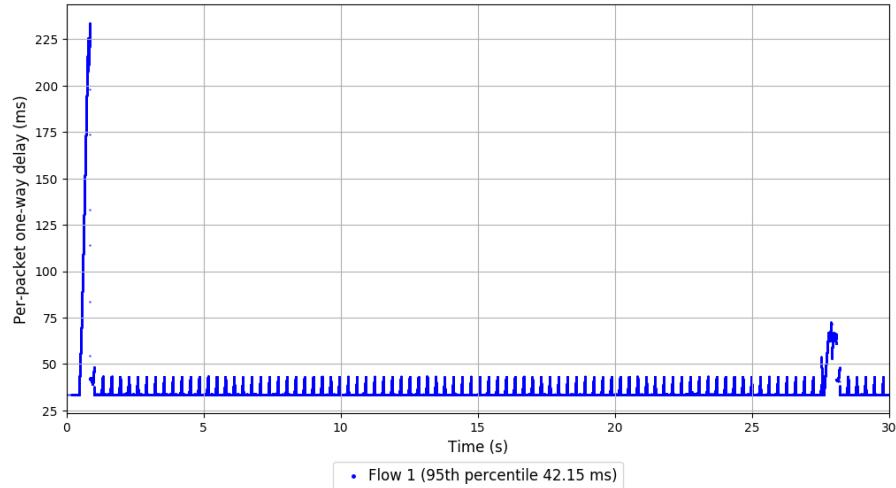
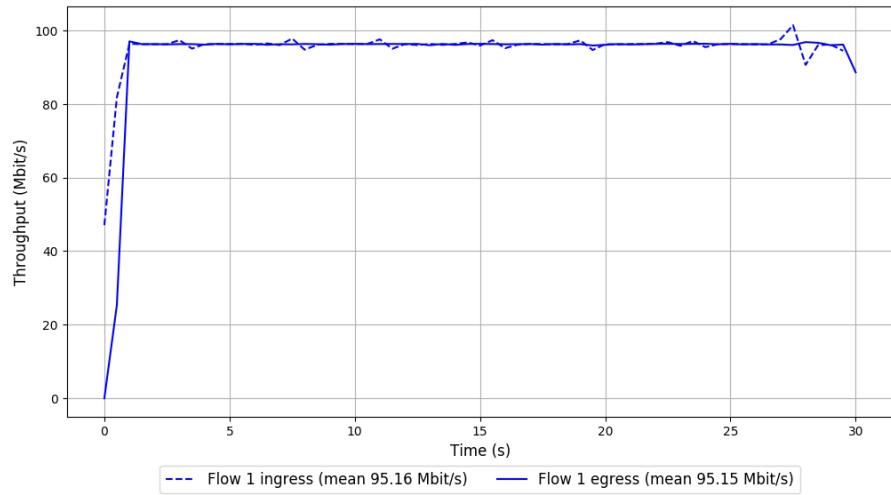


Run 4: Statistics of FillP

```
Start at: 2019-03-27 08:01:11
End at: 2019-03-27 08:01:41
Local clock offset: 0.382 ms
Remote clock offset: 2.359 ms

# Below is generated by plot.py at 2019-03-27 08:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 42.147 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 42.147 ms
Loss rate: 0.22%
```

Run 4: Report of FillP — Data Link

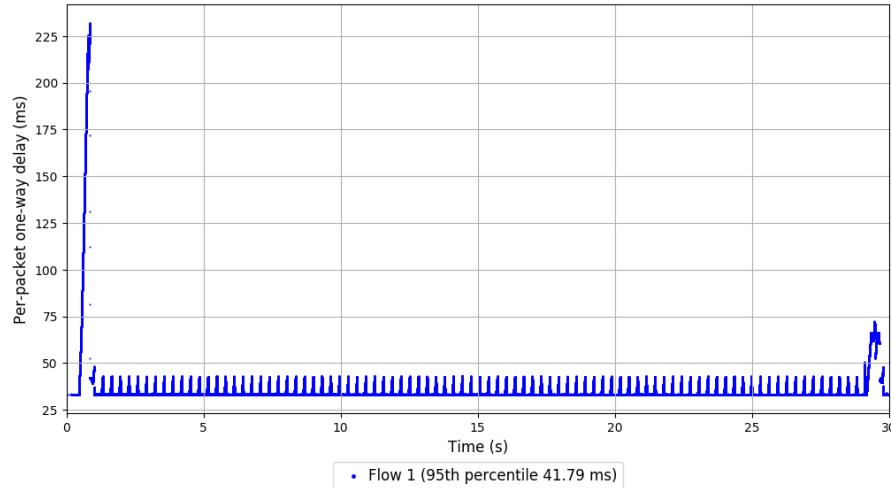
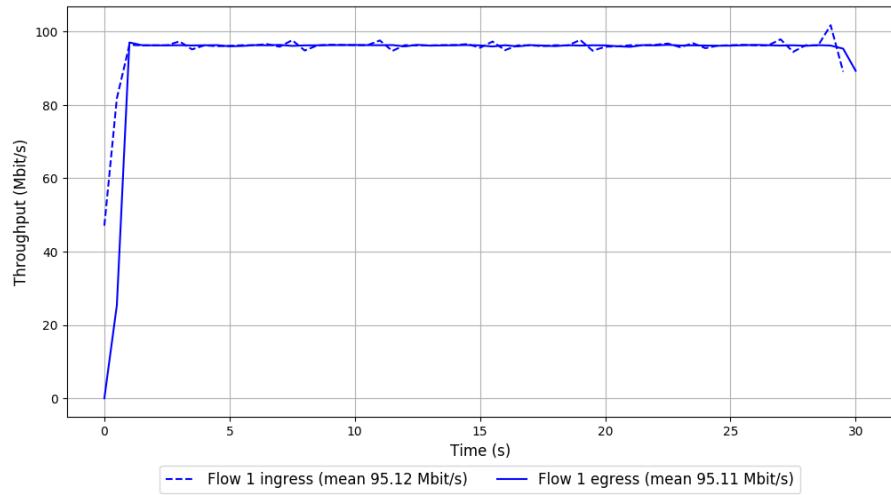


Run 5: Statistics of FillP

```
Start at: 2019-03-27 08:25:42
End at: 2019-03-27 08:26:12
Local clock offset: 2.647 ms
Remote clock offset: 2.061 ms

# Below is generated by plot.py at 2019-03-27 08:39:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 41.794 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 41.794 ms
Loss rate: 0.22%
```

Run 5: Report of FillP — Data Link

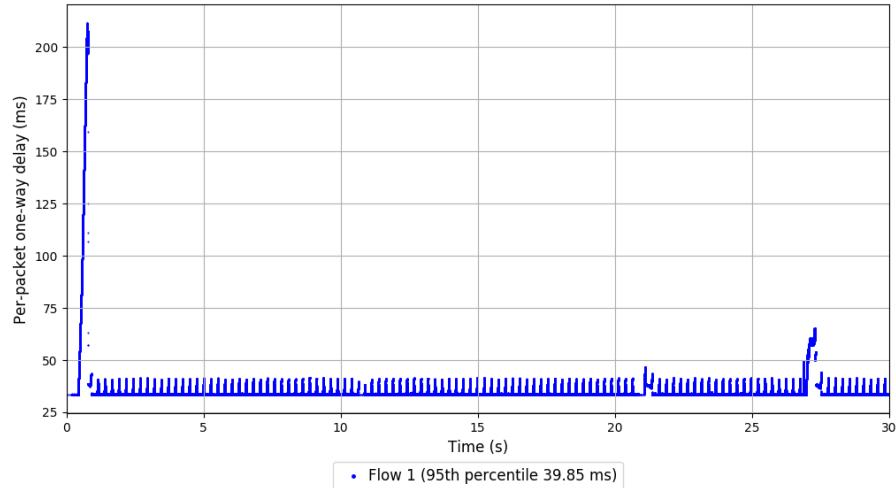
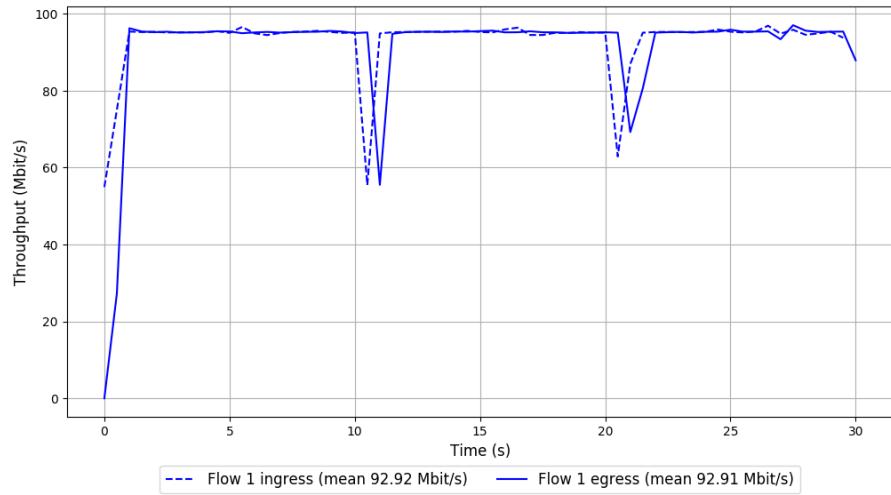


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-03-27 06:32:15
End at: 2019-03-27 06:32:45
Local clock offset: 3.799 ms
Remote clock offset: 0.72 ms

# Below is generated by plot.py at 2019-03-27 08:39:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 39.853 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 39.853 ms
Loss rate: 0.22%
```

Run 1: Report of FillP-Sheep — Data Link

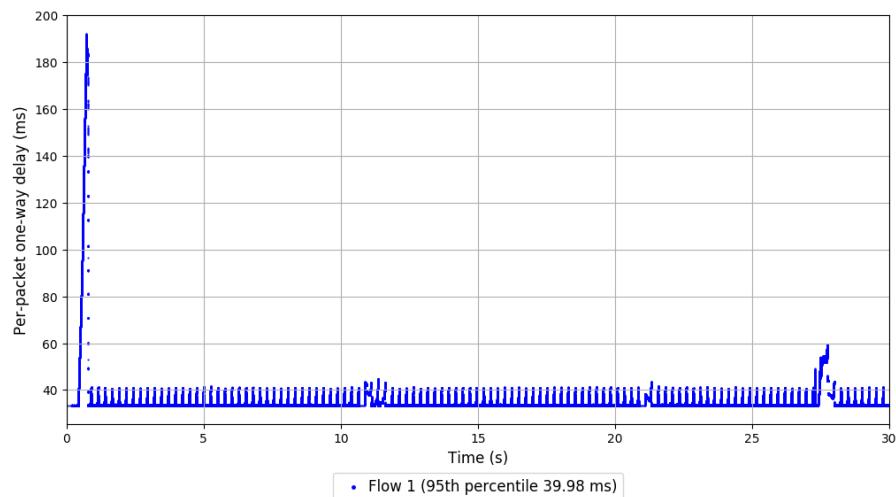
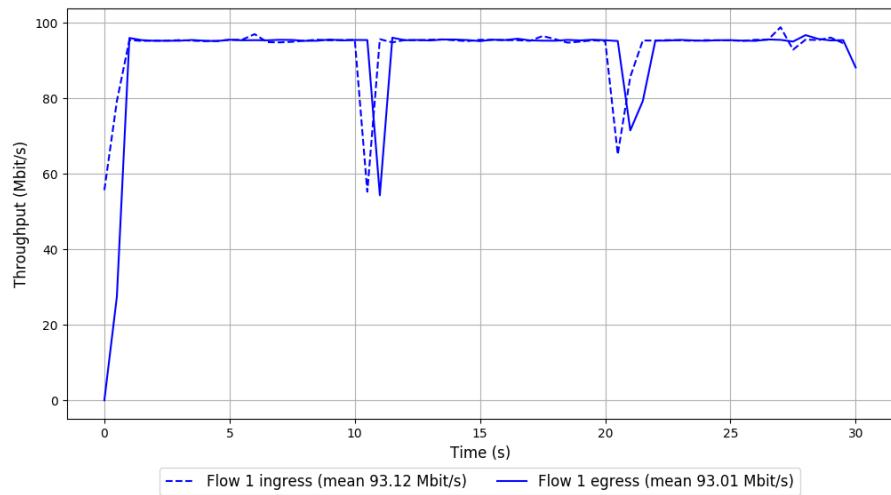


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-27 06:56:52
End at: 2019-03-27 06:57:22
Local clock offset: 1.515 ms
Remote clock offset: 2.029 ms

# Below is generated by plot.py at 2019-03-27 08:39:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.01 Mbit/s
95th percentile per-packet one-way delay: 39.979 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 93.01 Mbit/s
95th percentile per-packet one-way delay: 39.979 ms
Loss rate: 0.33%
```

Run 2: Report of FillP-Sheep — Data Link

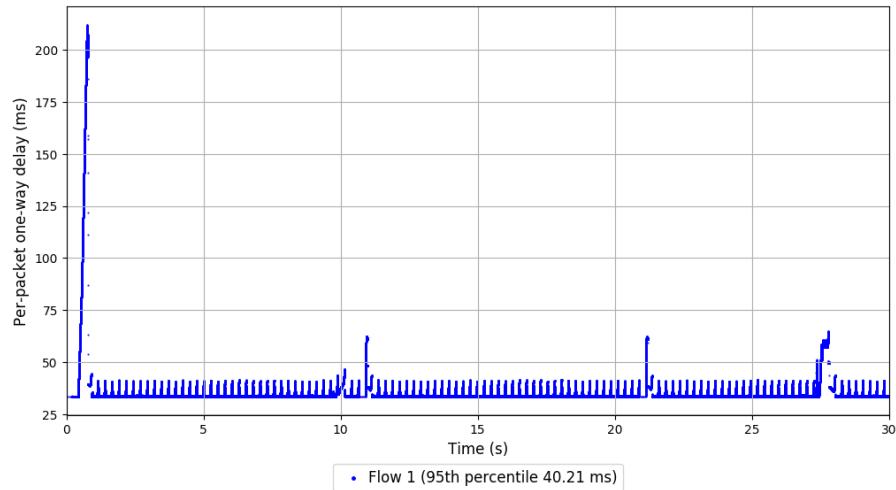
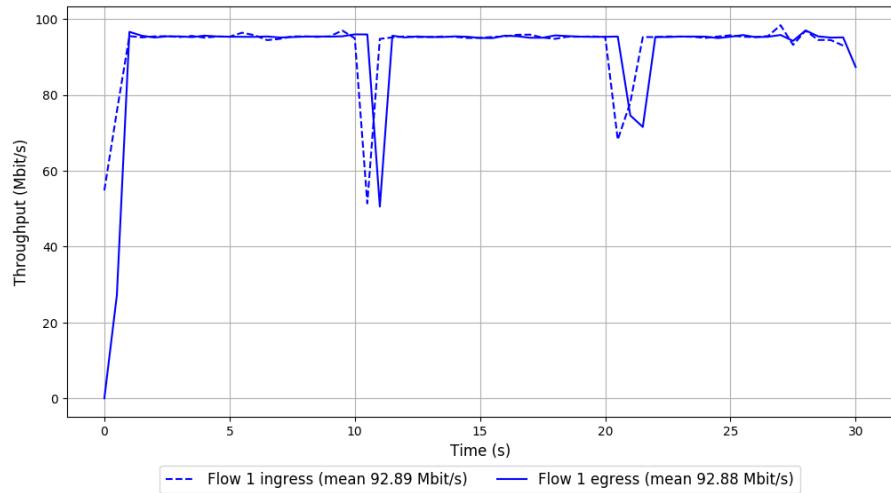


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-27 07:21:22
End at: 2019-03-27 07:21:52
Local clock offset: 0.248 ms
Remote clock offset: 2.998 ms

# Below is generated by plot.py at 2019-03-27 08:39:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 40.210 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 40.210 ms
Loss rate: 0.22%
```

Run 3: Report of FillP-Sheep — Data Link

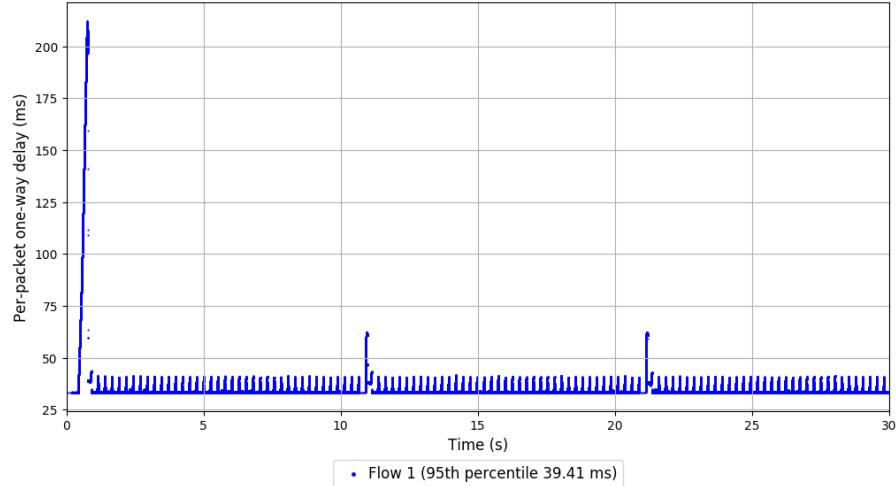
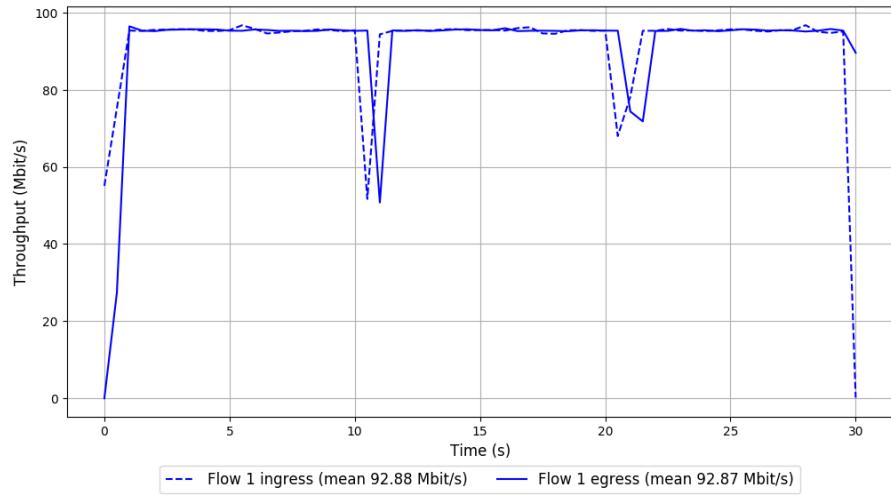


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-27 07:45:51
End at: 2019-03-27 07:46:21
Local clock offset: 0.246 ms
Remote clock offset: 3.112 ms

# Below is generated by plot.py at 2019-03-27 08:39:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.87 Mbit/s
95th percentile per-packet one-way delay: 39.405 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 92.87 Mbit/s
95th percentile per-packet one-way delay: 39.405 ms
Loss rate: 0.22%
```

Run 4: Report of FillP-Sheep — Data Link

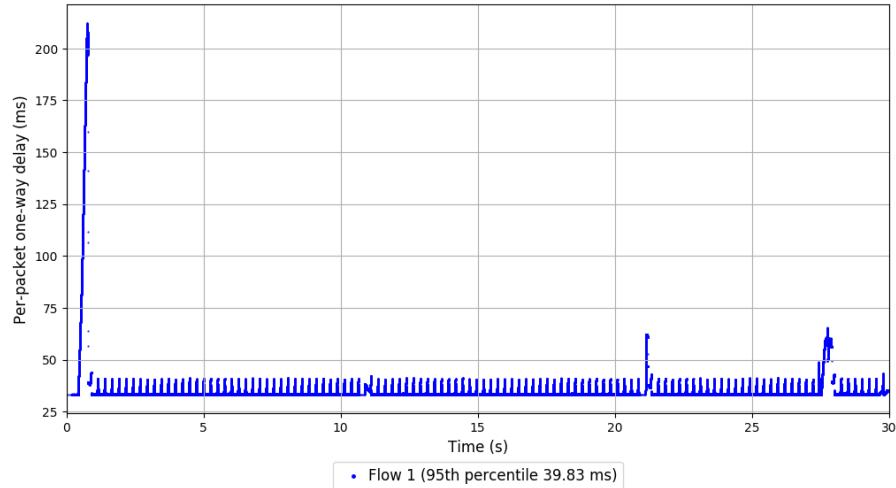
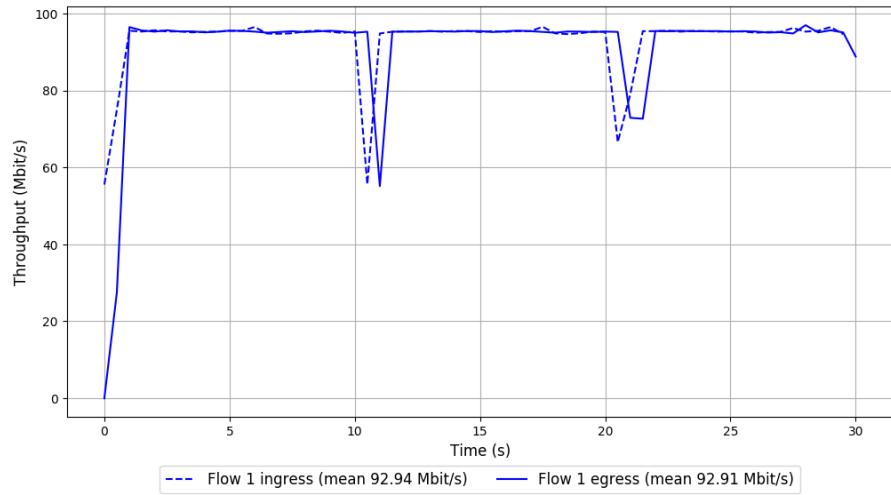


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-27 08:10:30
End at: 2019-03-27 08:11:00
Local clock offset: 0.402 ms
Remote clock offset: 2.302 ms

# Below is generated by plot.py at 2019-03-27 08:39:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 39.825 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 39.825 ms
Loss rate: 0.24%
```

Run 5: Report of FillP-Sheep — Data Link

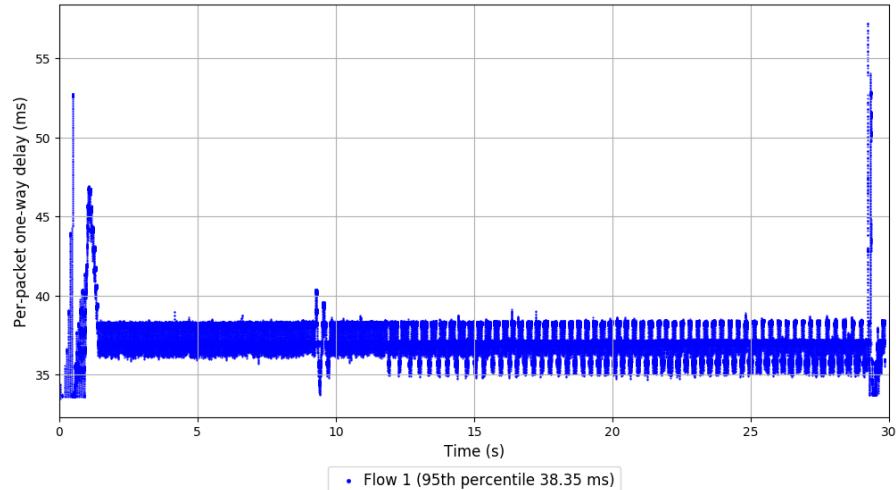
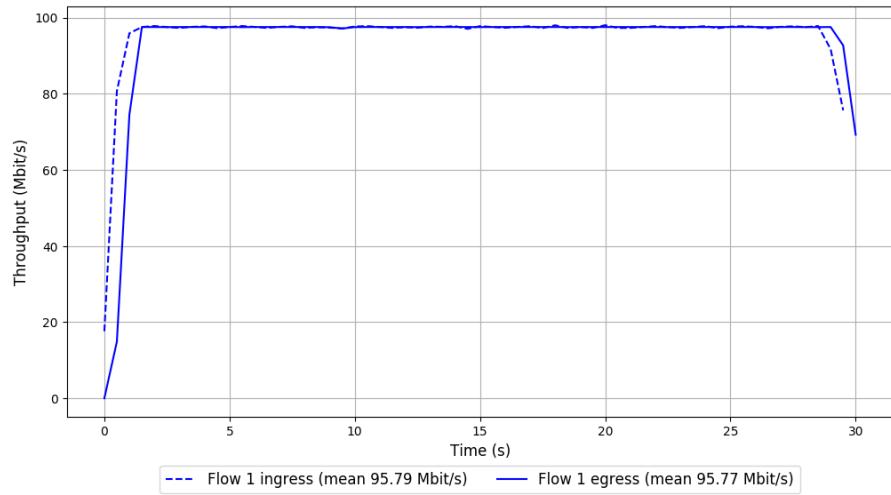


Run 1: Statistics of Indigo

```
Start at: 2019-03-27 06:52:08
End at: 2019-03-27 06:52:38
Local clock offset: 2.483 ms
Remote clock offset: 1.811 ms

# Below is generated by plot.py at 2019-03-27 08:39:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 38.346 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 38.346 ms
Loss rate: 0.23%
```

Run 1: Report of Indigo — Data Link

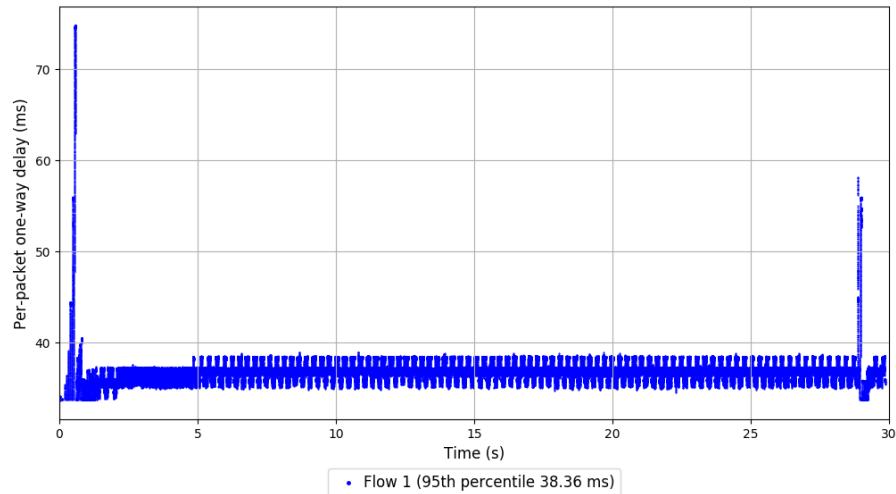
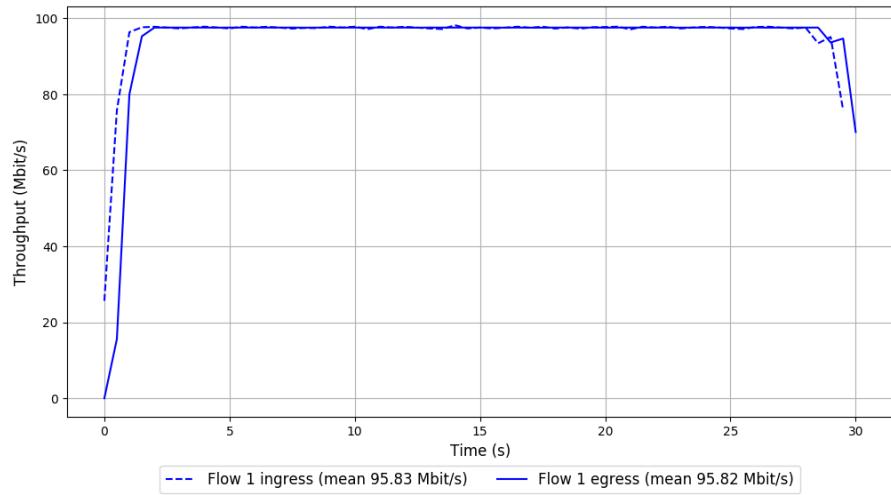


Run 2: Statistics of Indigo

```
Start at: 2019-03-27 07:16:40
End at: 2019-03-27 07:17:10
Local clock offset: 0.3 ms
Remote clock offset: 2.649 ms

# Below is generated by plot.py at 2019-03-27 08:39:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 38.359 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 38.359 ms
Loss rate: 0.23%
```

Run 2: Report of Indigo — Data Link

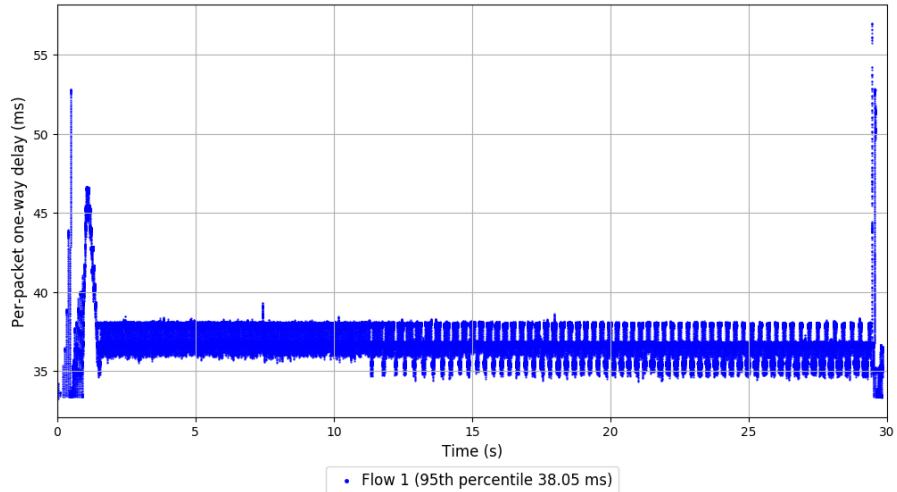
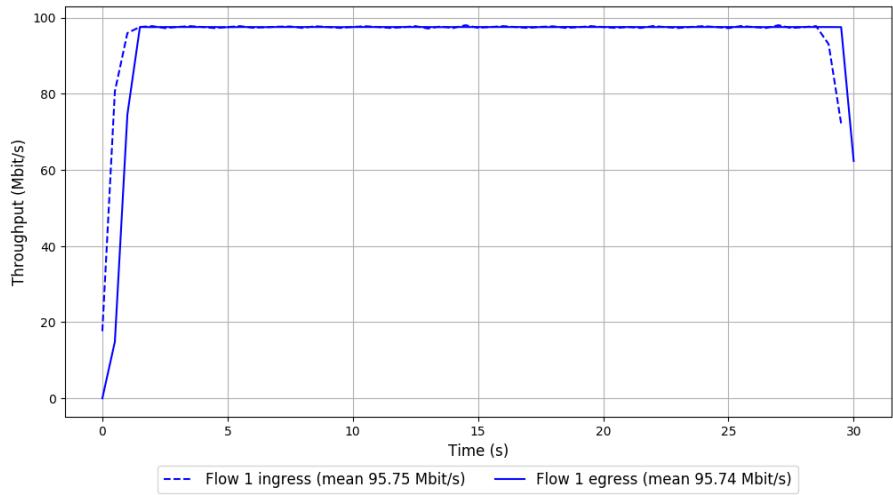


Run 3: Statistics of Indigo

```
Start at: 2019-03-27 07:41:10
End at: 2019-03-27 07:41:40
Local clock offset: 0.226 ms
Remote clock offset: 3.332 ms

# Below is generated by plot.py at 2019-03-27 08:40:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 38.053 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 38.053 ms
Loss rate: 0.22%
```

Run 3: Report of Indigo — Data Link

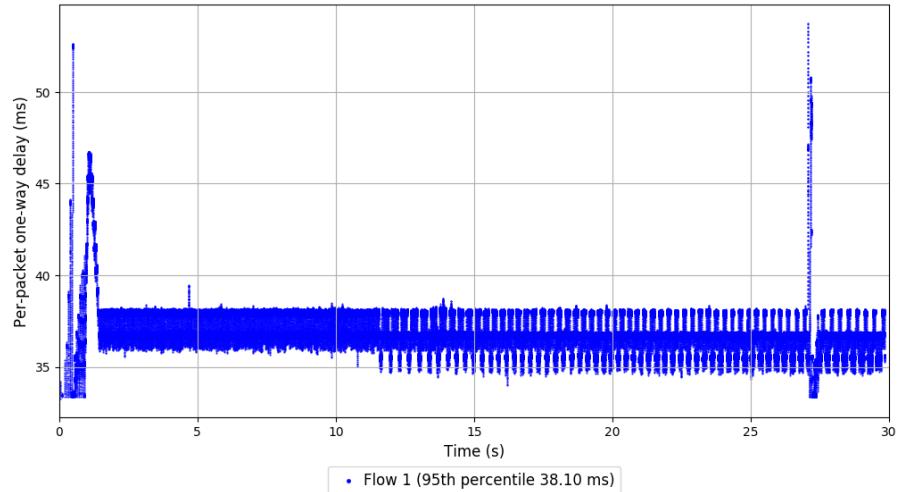
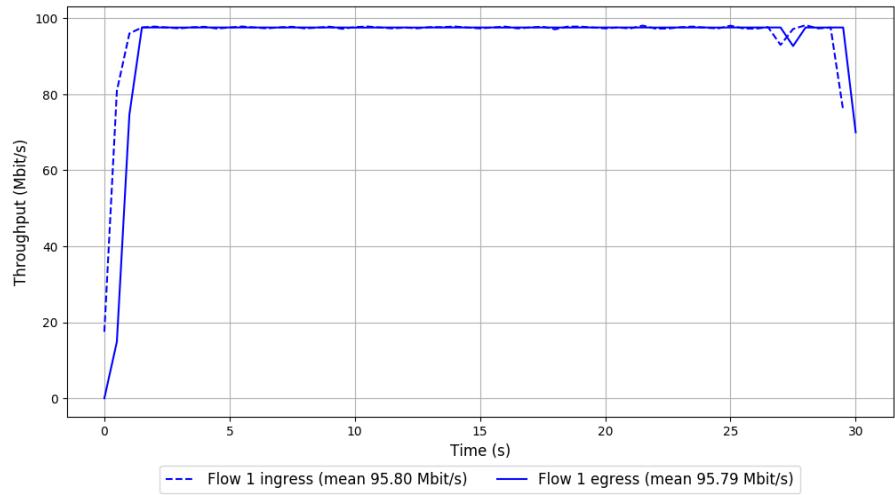


Run 4: Statistics of Indigo

```
Start at: 2019-03-27 08:05:49
End at: 2019-03-27 08:06:19
Local clock offset: 0.392 ms
Remote clock offset: 2.387 ms

# Below is generated by plot.py at 2019-03-27 08:40:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 38.096 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 38.096 ms
Loss rate: 0.23%
```

Run 4: Report of Indigo — Data Link

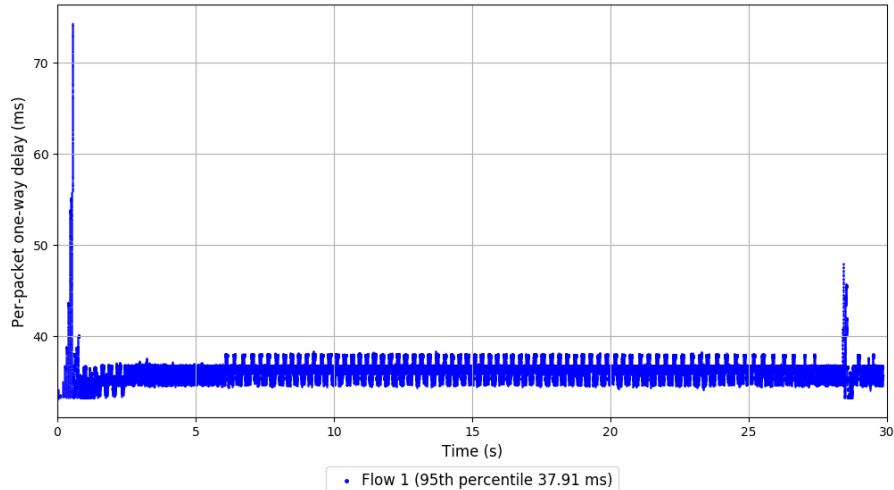
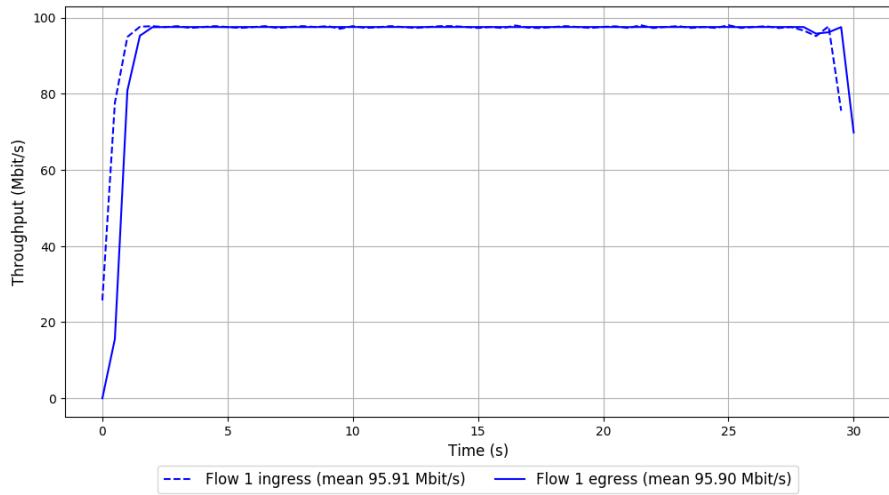


Run 5: Statistics of Indigo

```
Start at: 2019-03-27 08:30:20
End at: 2019-03-27 08:30:50
Local clock offset: 3.203 ms
Remote clock offset: 1.97 ms

# Below is generated by plot.py at 2019-03-27 08:40:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 37.907 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 37.907 ms
Loss rate: 0.22%
```

Run 5: Report of Indigo — Data Link

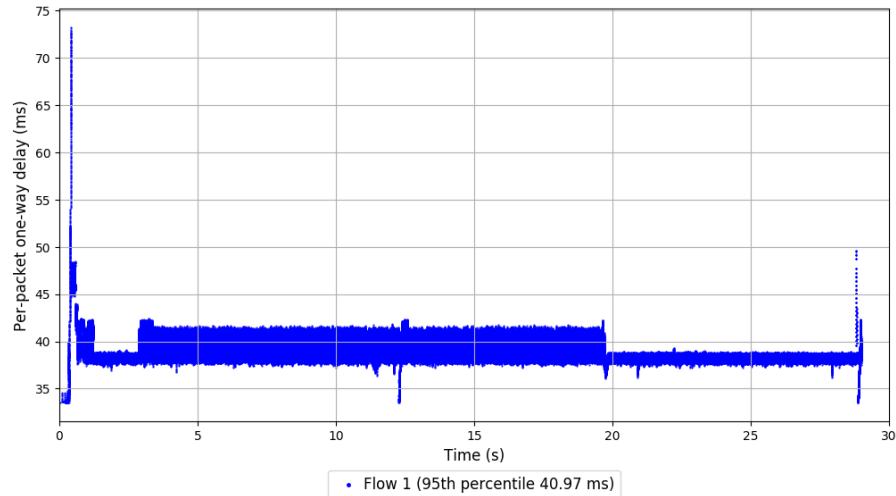
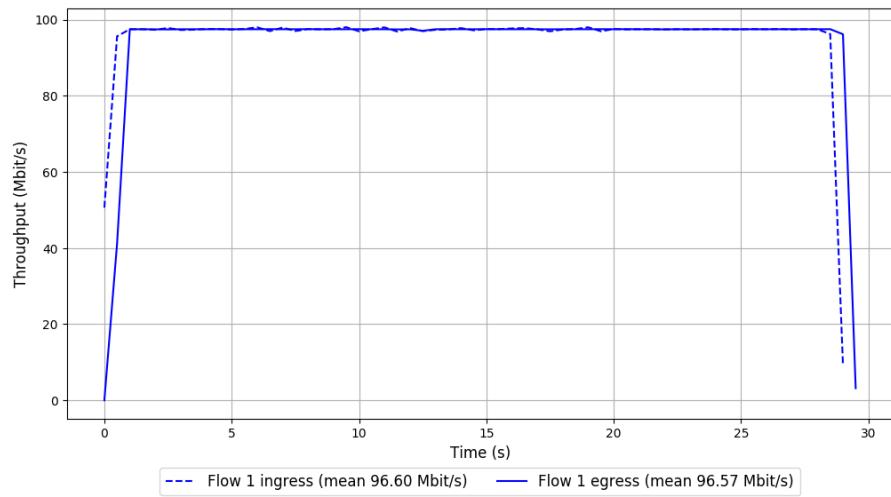


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 06:34:35
End at: 2019-03-27 06:35:05
Local clock offset: 3.989 ms
Remote clock offset: 0.663 ms

# Below is generated by plot.py at 2019-03-27 08:40:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 40.969 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 40.969 ms
Loss rate: 0.24%
```

Run 1: Report of Indigo-MusesC3 — Data Link

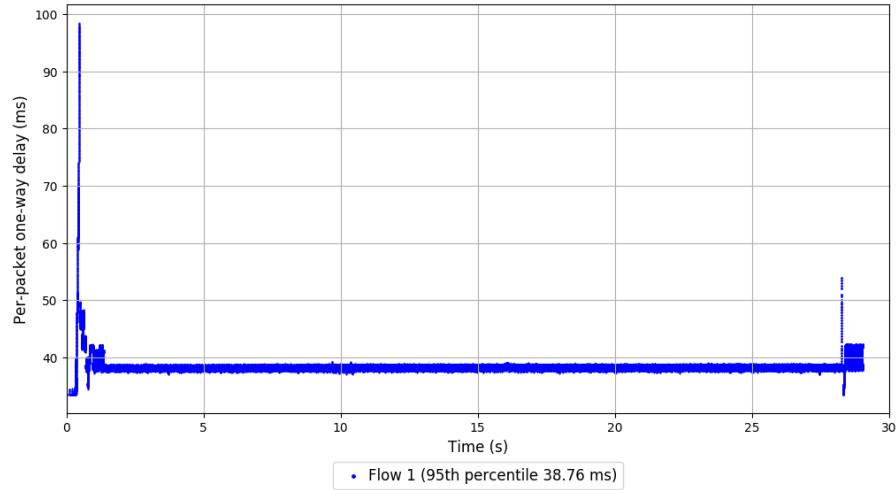
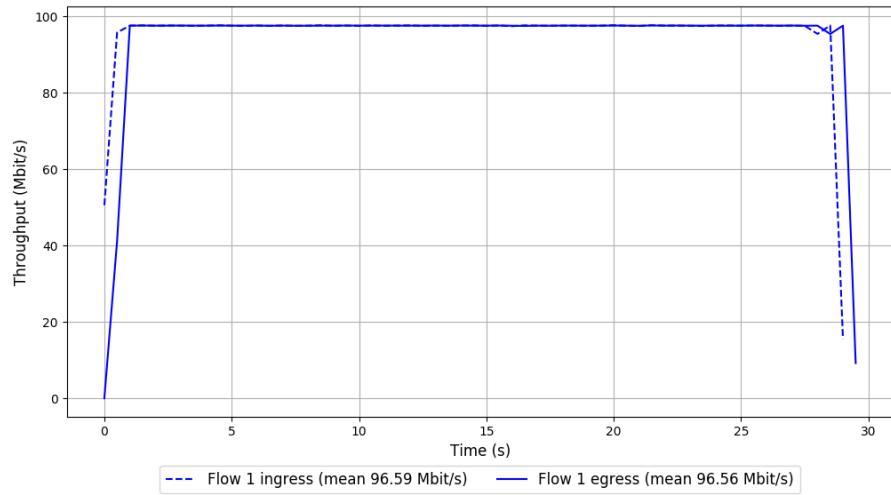


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 06:59:13
End at: 2019-03-27 06:59:44
Local clock offset: 1.233 ms
Remote clock offset: 2.104 ms

# Below is generated by plot.py at 2019-03-27 08:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 38.764 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 38.764 ms
Loss rate: 0.25%
```

Run 2: Report of Indigo-MusesC3 — Data Link

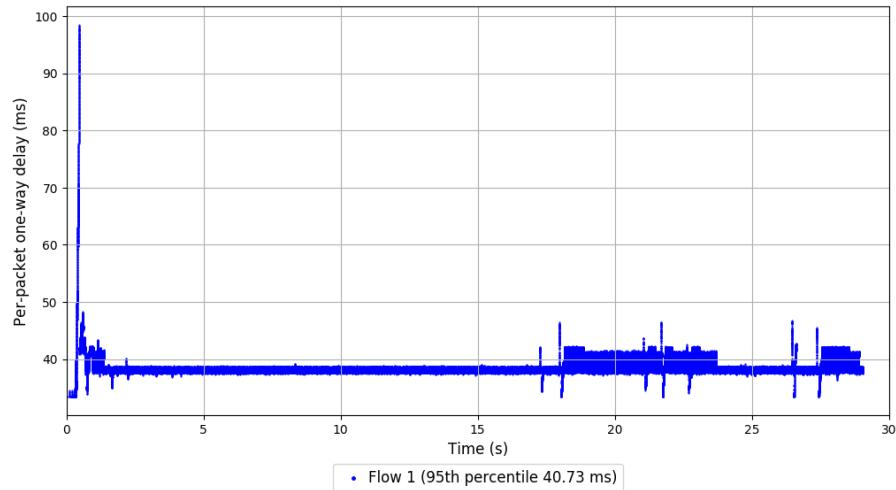
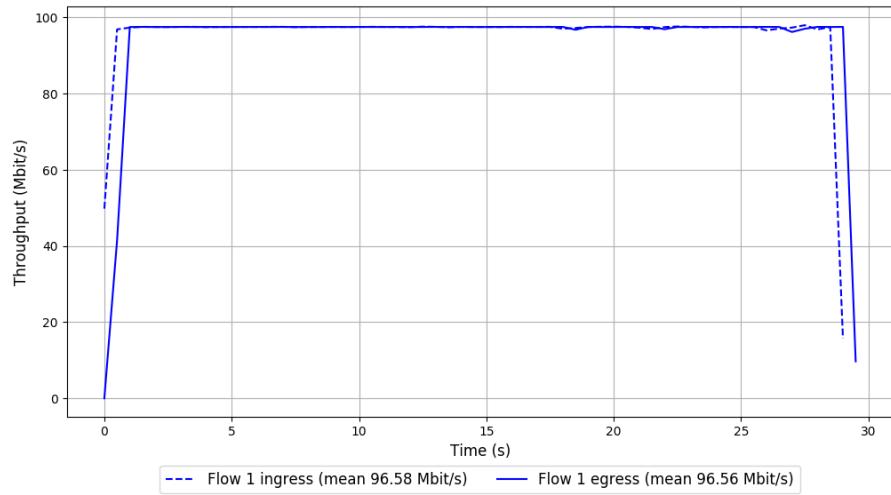


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 07:23:42
End at: 2019-03-27 07:24:12
Local clock offset: 0.232 ms
Remote clock offset: 3.079 ms

# Below is generated by plot.py at 2019-03-27 08:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 40.725 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 40.725 ms
Loss rate: 0.24%
```

Run 3: Report of Indigo-MusesC3 — Data Link

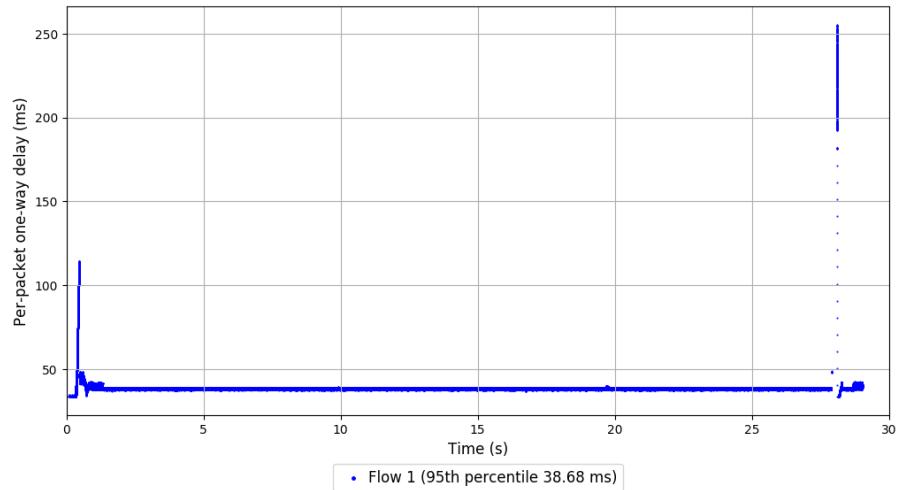
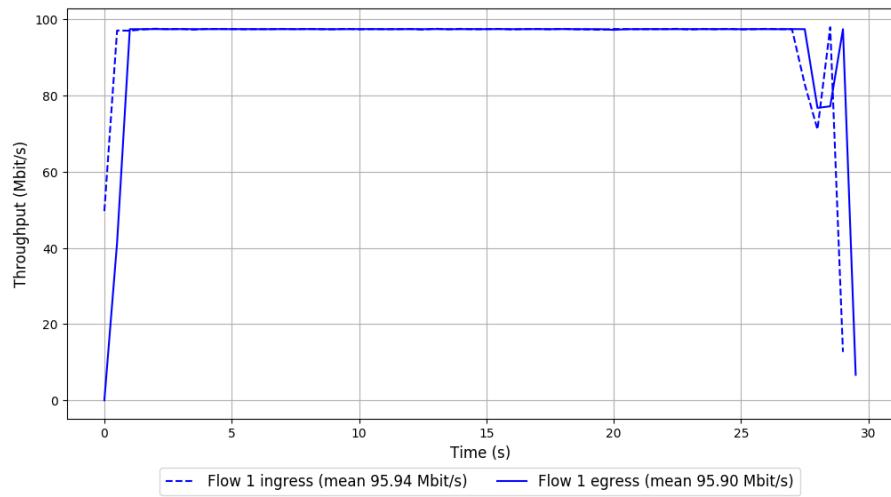


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 07:48:11
End at: 2019-03-27 07:48:41
Local clock offset: 0.271 ms
Remote clock offset: 2.943 ms

# Below is generated by plot.py at 2019-03-27 08:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 38.681 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 38.681 ms
Loss rate: 0.25%
```

Run 4: Report of Indigo-MusesC3 — Data Link

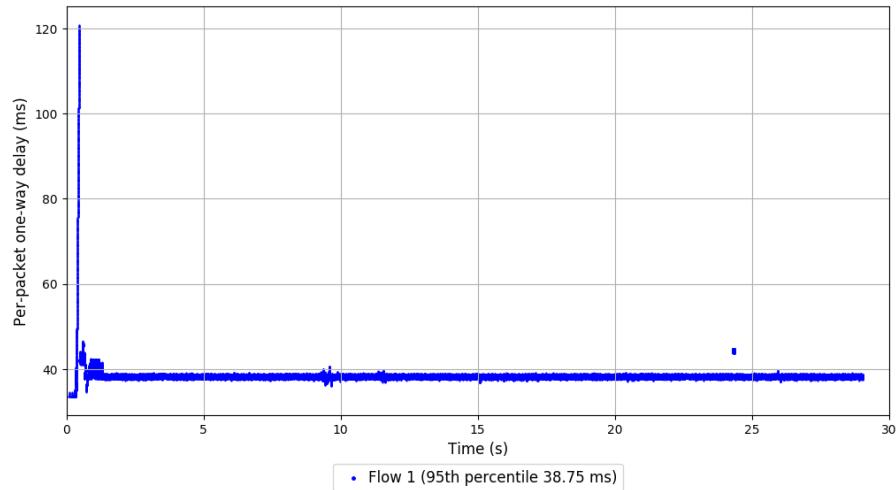
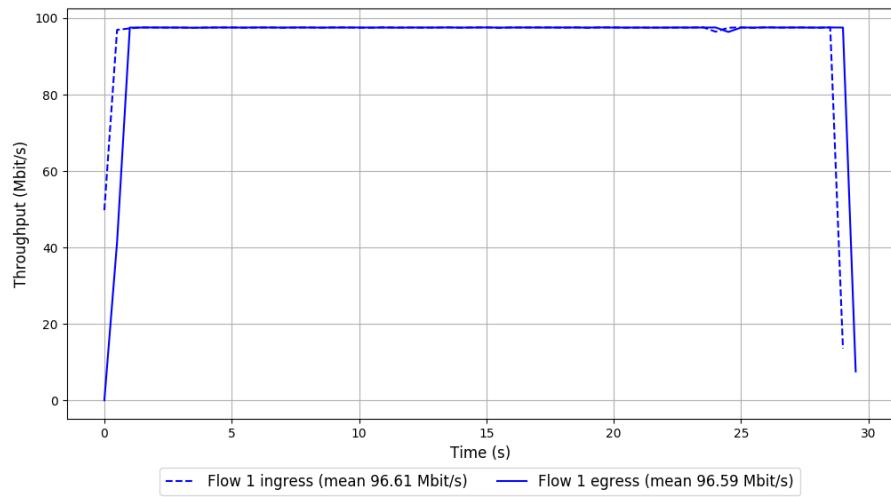


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 08:12:51
End at: 2019-03-27 08:13:21
Local clock offset: 0.424 ms
Remote clock offset: 2.055 ms

# Below is generated by plot.py at 2019-03-27 08:40:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 38.752 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 38.752 ms
Loss rate: 0.24%
```

Run 5: Report of Indigo-MusesC3 — Data Link

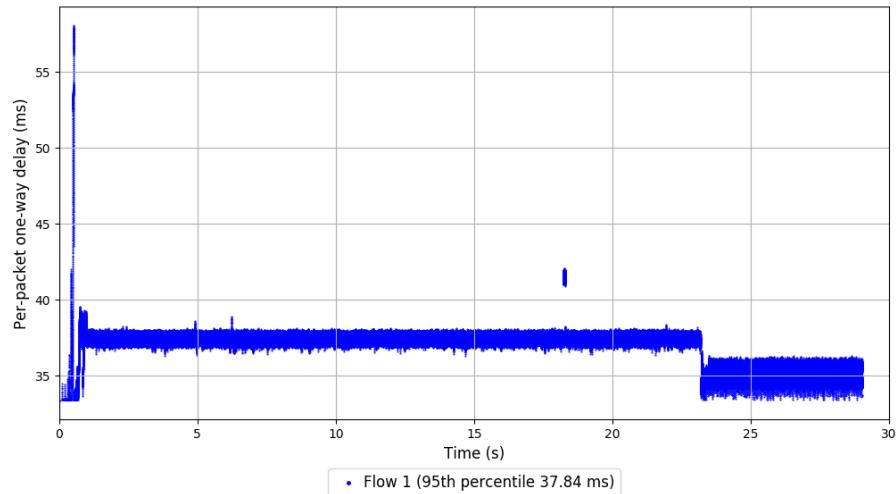
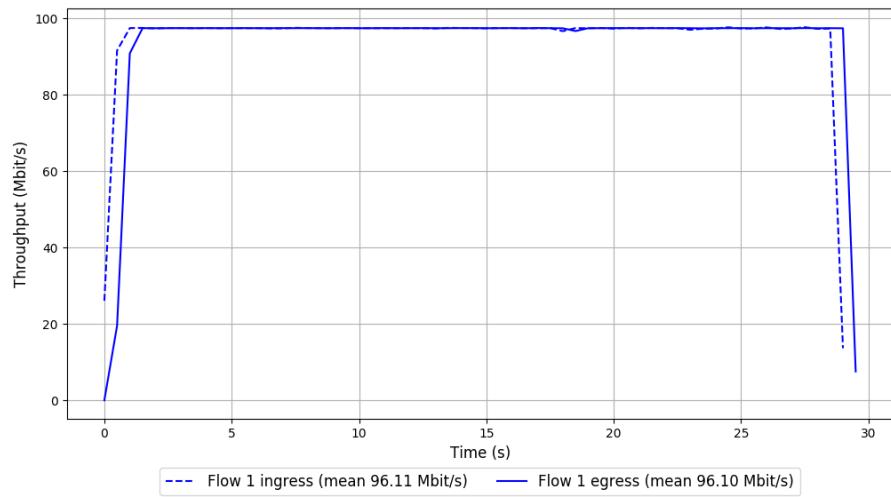


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 06:43:53
End at: 2019-03-27 06:44:23
Local clock offset: 4.679 ms
Remote clock offset: 1.312 ms

# Below is generated by plot.py at 2019-03-27 08:41:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 37.840 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 37.840 ms
Loss rate: 0.23%
```

Run 1: Report of Indigo-MusesC5 — Data Link

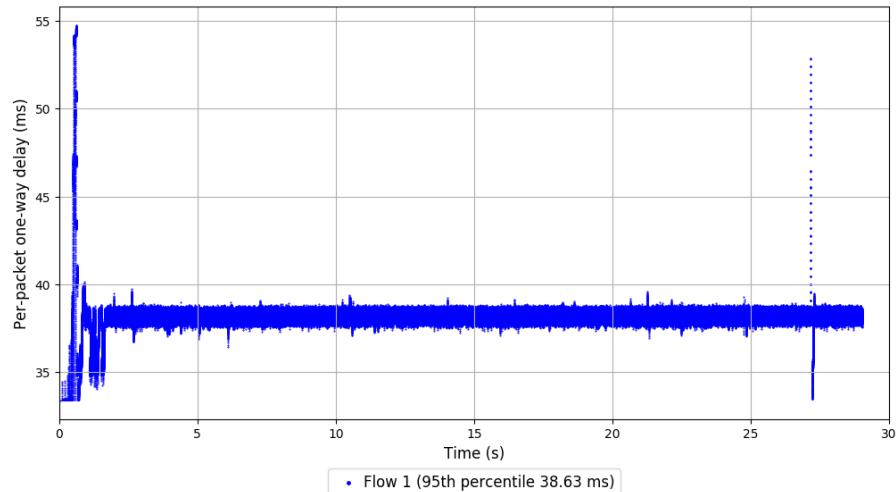
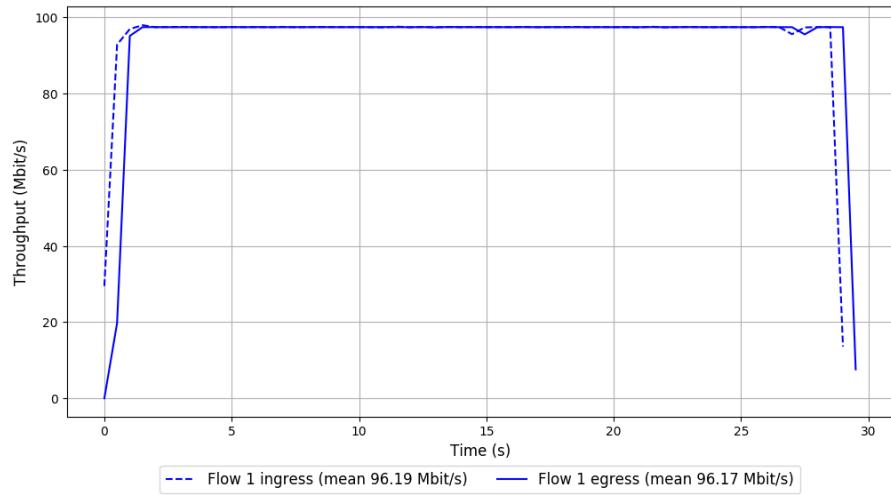


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 07:08:29
End at: 2019-03-27 07:08:59
Local clock offset: 0.552 ms
Remote clock offset: 2.507 ms

# Below is generated by plot.py at 2019-03-27 08:41:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 38.632 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 38.632 ms
Loss rate: 0.24%
```

Run 2: Report of Indigo-MusesC5 — Data Link

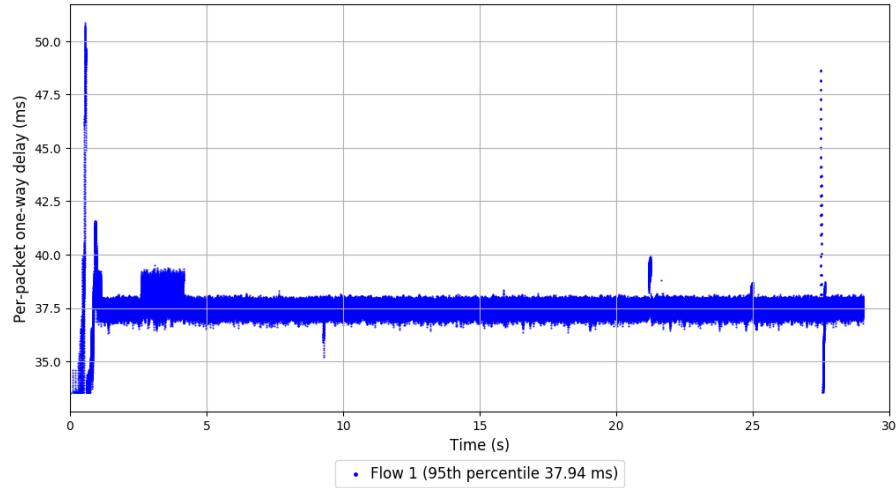
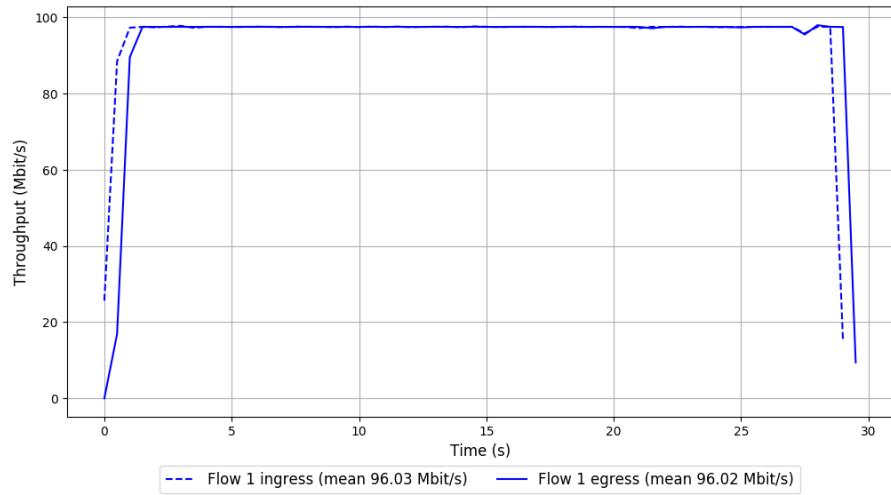


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 07:32:58
End at: 2019-03-27 07:33:28
Local clock offset: 0.202 ms
Remote clock offset: 3.268 ms

# Below is generated by plot.py at 2019-03-27 08:41:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 37.940 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 37.940 ms
Loss rate: 0.24%
```

Run 3: Report of Indigo-MusesC5 — Data Link

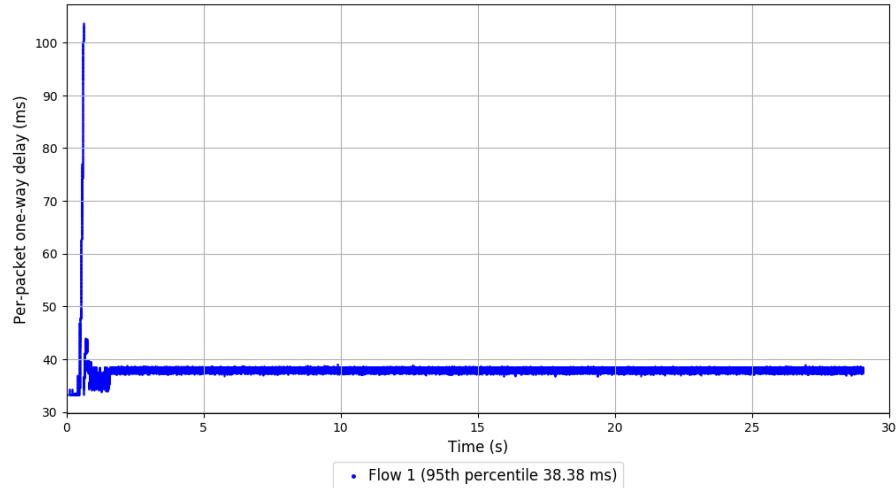
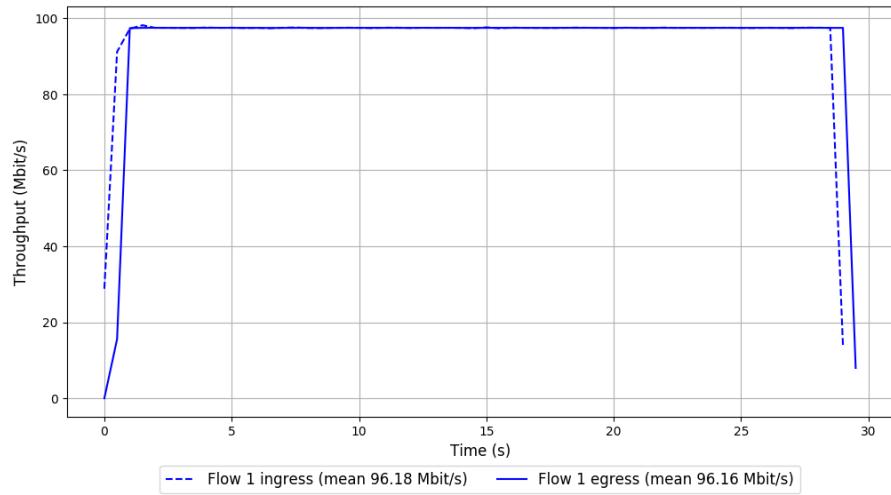


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 07:57:38
End at: 2019-03-27 07:58:08
Local clock offset: 0.356 ms
Remote clock offset: 2.743 ms

# Below is generated by plot.py at 2019-03-27 08:41:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 38.382 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 38.382 ms
Loss rate: 0.24%
```

Run 4: Report of Indigo-MusesC5 — Data Link

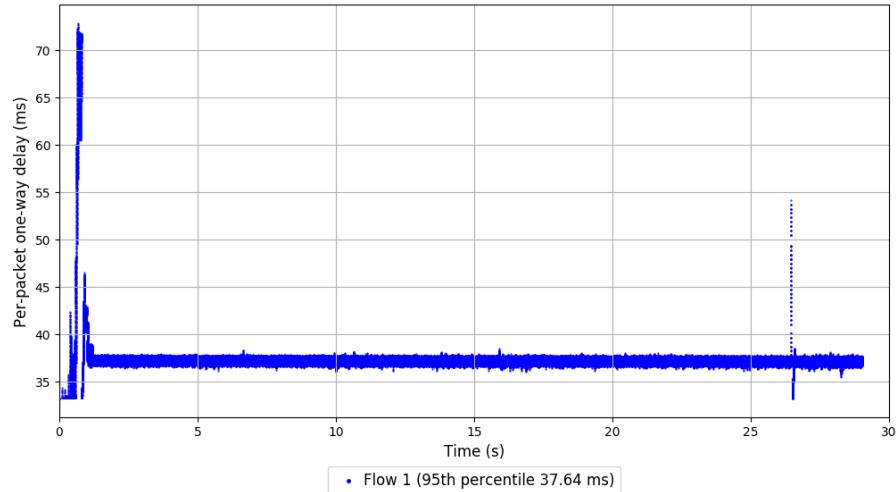
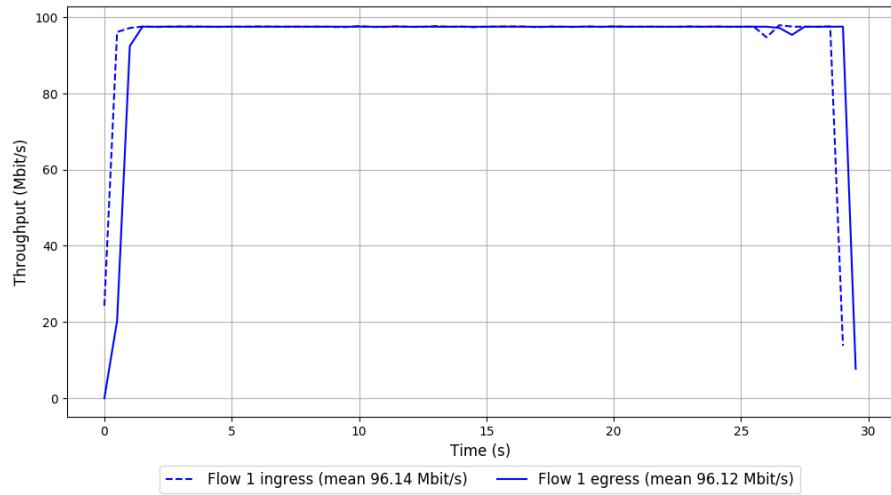


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 08:22:08
End at: 2019-03-27 08:22:38
Local clock offset: 2.058 ms
Remote clock offset: 2.067 ms

# Below is generated by plot.py at 2019-03-27 08:41:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 37.643 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 37.643 ms
Loss rate: 0.24%
```

Run 5: Report of Indigo-MusesC5 — Data Link

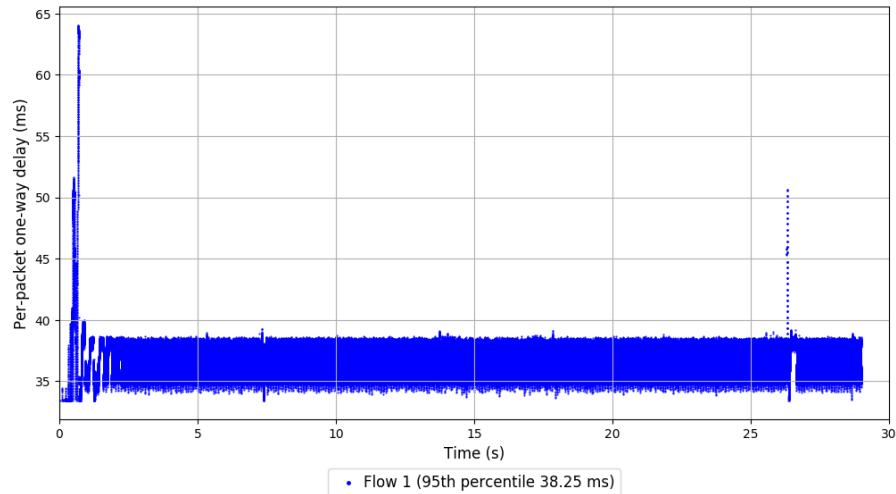
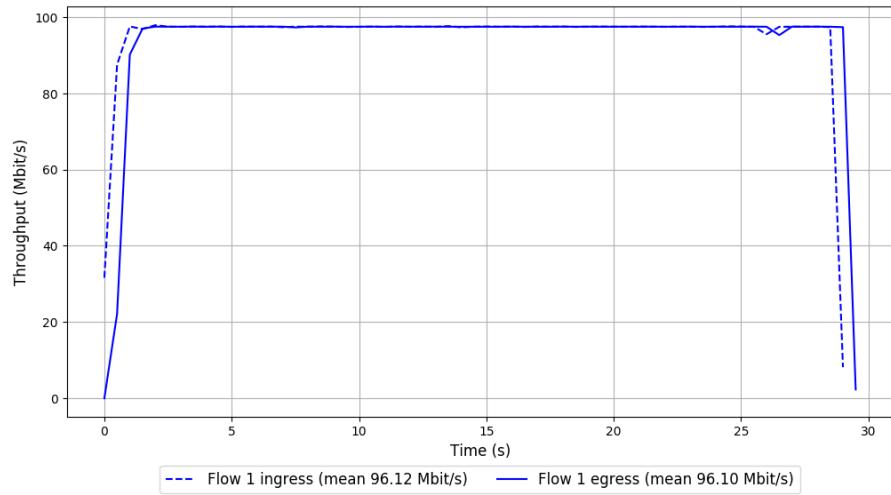


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 06:45:04
End at: 2019-03-27 06:45:34
Local clock offset: 4.751 ms
Remote clock offset: 1.412 ms

# Below is generated by plot.py at 2019-03-27 08:41:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 38.251 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 38.251 ms
Loss rate: 0.24%
```

Run 1: Report of Indigo-MusesD — Data Link

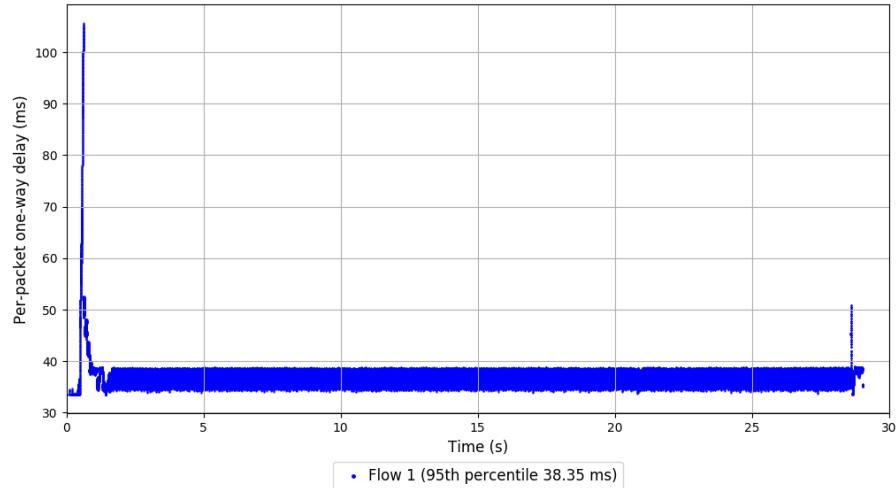
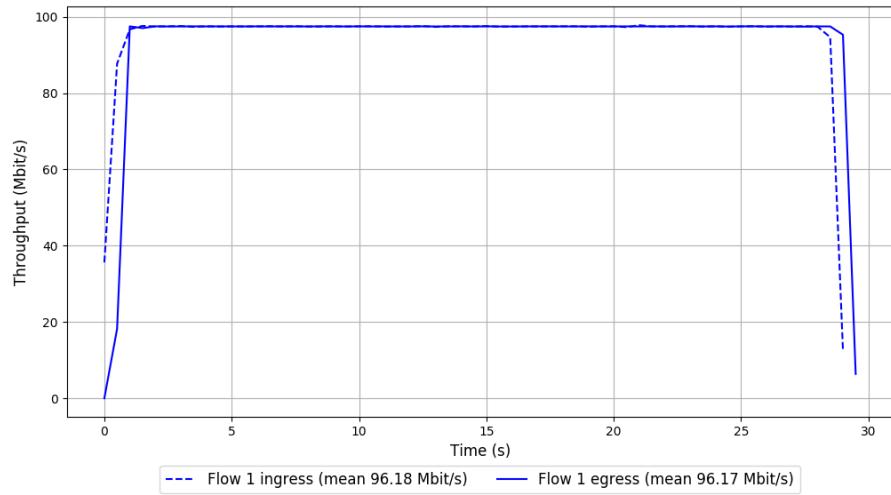


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 07:09:39
End at: 2019-03-27 07:10:09
Local clock offset: 0.468 ms
Remote clock offset: 2.546 ms

# Below is generated by plot.py at 2019-03-27 08:41:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 38.352 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 38.352 ms
Loss rate: 0.24%
```

Run 2: Report of Indigo-MusesD — Data Link

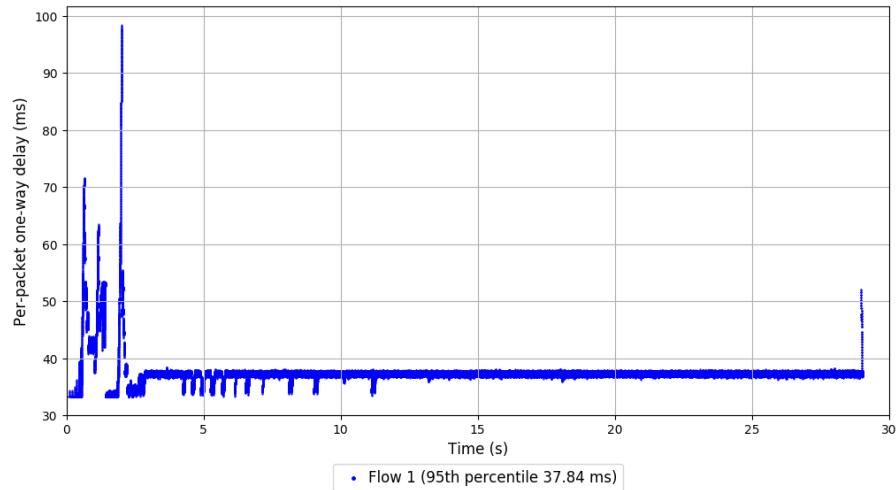
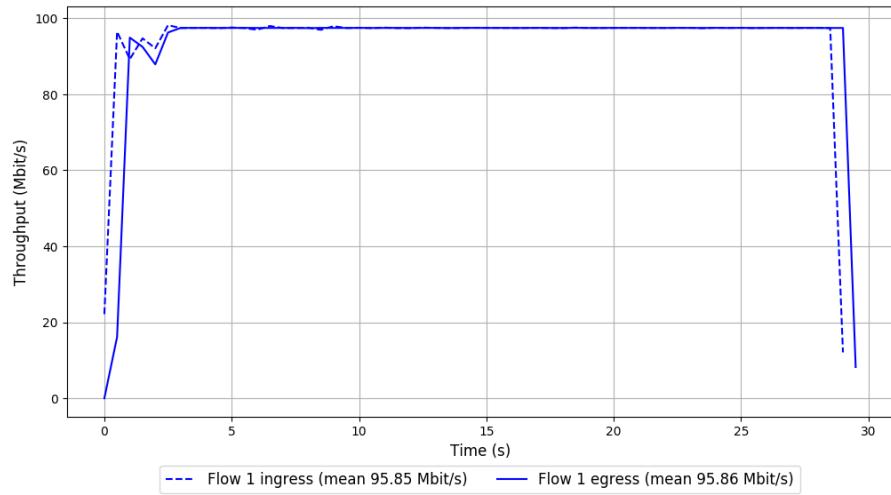


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 07:34:08
End at: 2019-03-27 07:34:38
Local clock offset: 0.2 ms
Remote clock offset: 3.471 ms

# Below is generated by plot.py at 2019-03-27 08:41:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 37.841 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 37.841 ms
Loss rate: 0.21%
```

Run 3: Report of Indigo-MusesD — Data Link

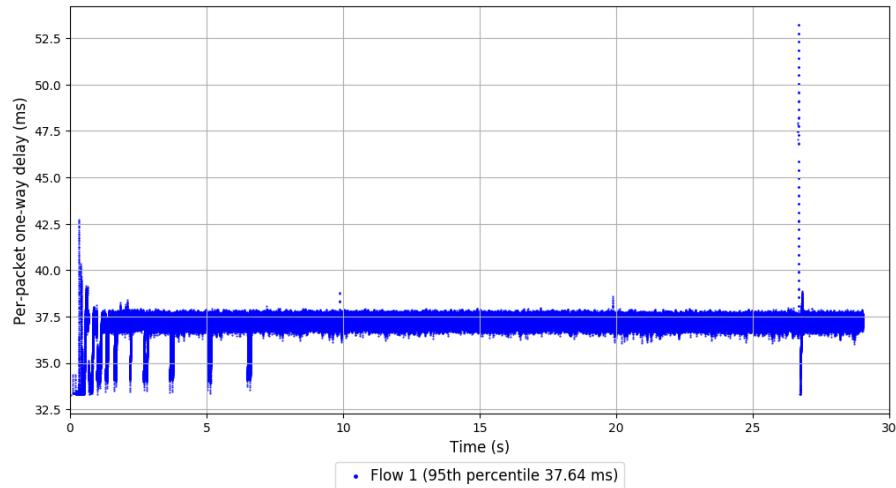
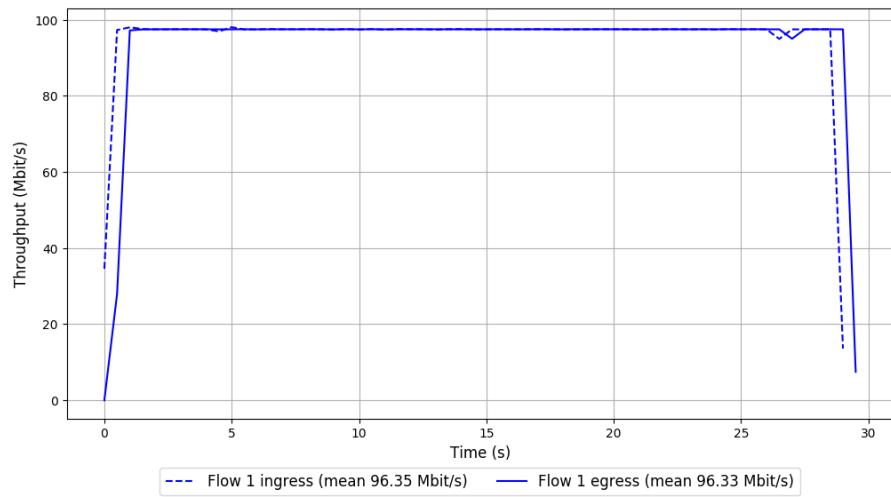


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 07:58:48
End at: 2019-03-27 07:59:18
Local clock offset: 0.357 ms
Remote clock offset: 2.66 ms

# Below is generated by plot.py at 2019-03-27 08:42:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 37.643 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 37.643 ms
Loss rate: 0.24%
```

Run 4: Report of Indigo-MusesD — Data Link

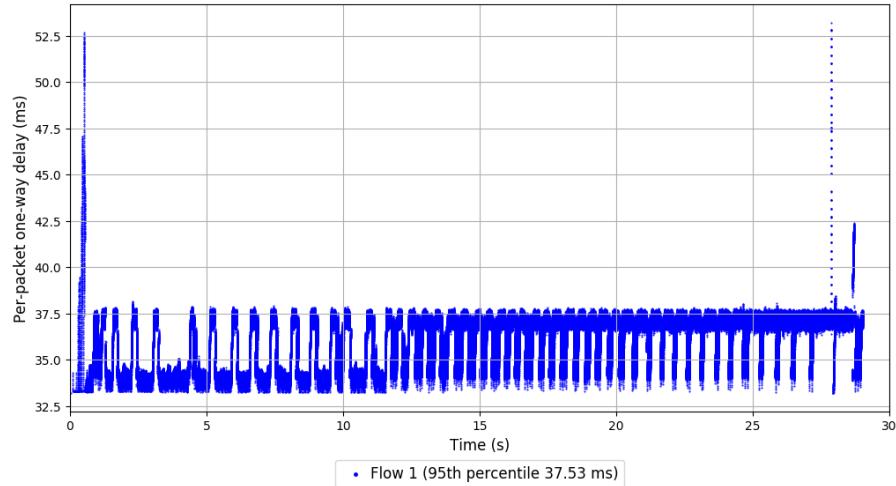
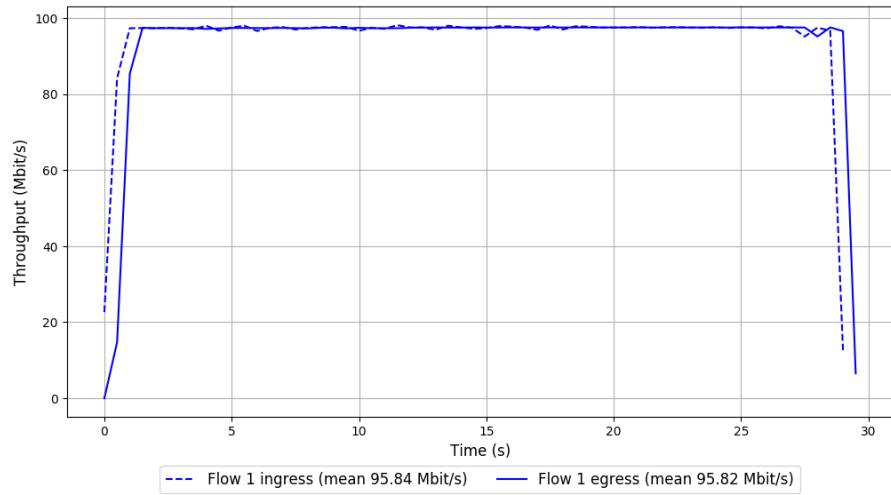


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 08:23:18
End at: 2019-03-27 08:23:48
Local clock offset: 2.285 ms
Remote clock offset: 2.086 ms

# Below is generated by plot.py at 2019-03-27 08:42:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 37.530 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 37.530 ms
Loss rate: 0.24%
```

Run 5: Report of Indigo-MusesD — Data Link

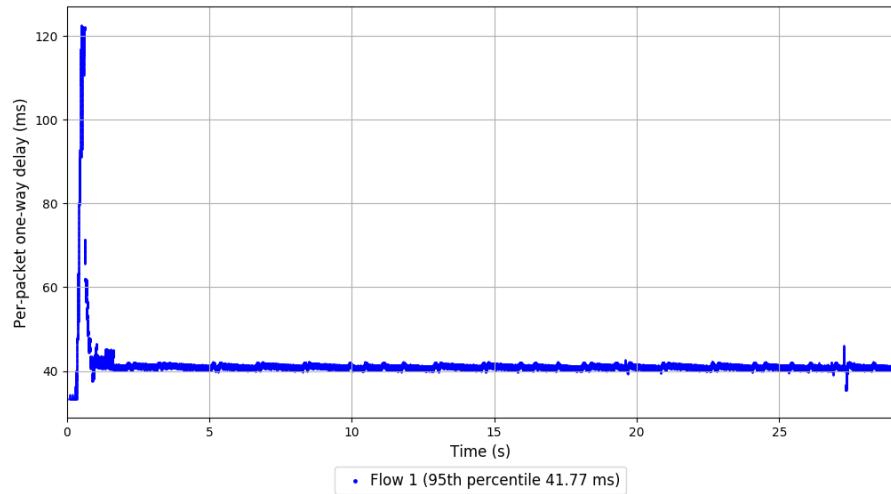
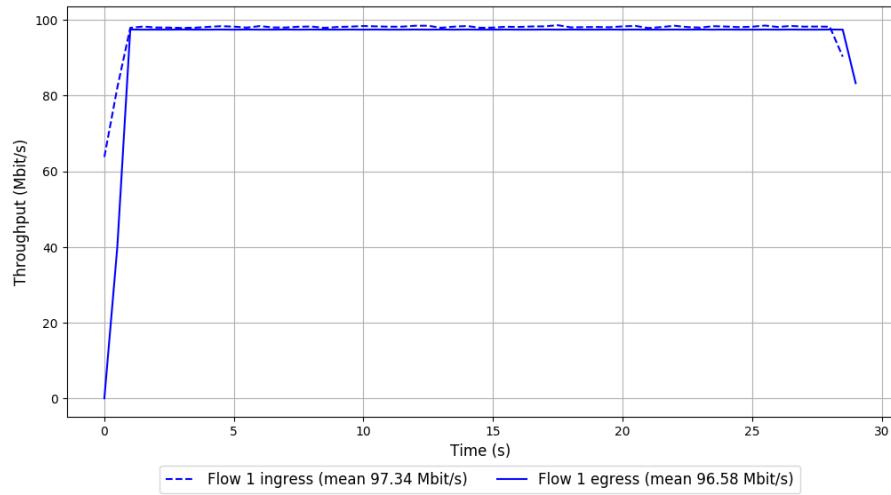


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 06:38:02
End at: 2019-03-27 06:38:32
Local clock offset: 4.265 ms
Remote clock offset: 1.007 ms

# Below is generated by plot.py at 2019-03-27 08:42:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 41.768 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 41.768 ms
Loss rate: 0.99%
```

Run 1: Report of Indigo-MusesT — Data Link

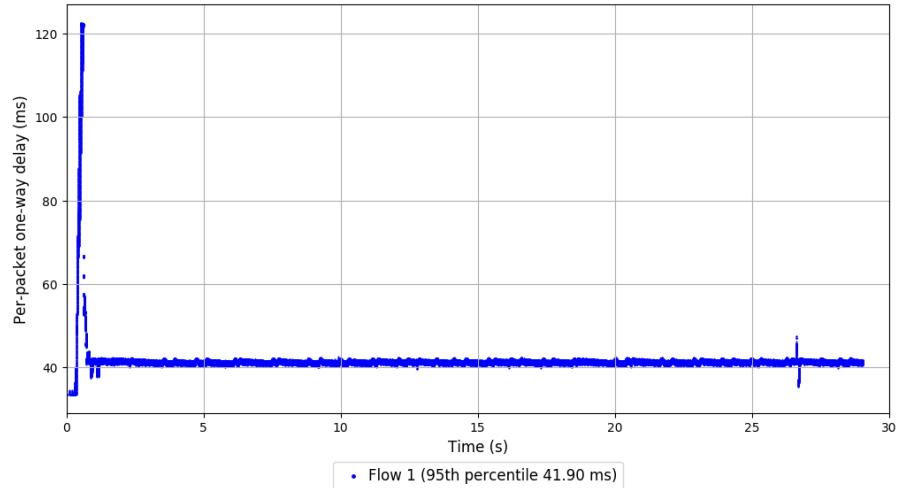
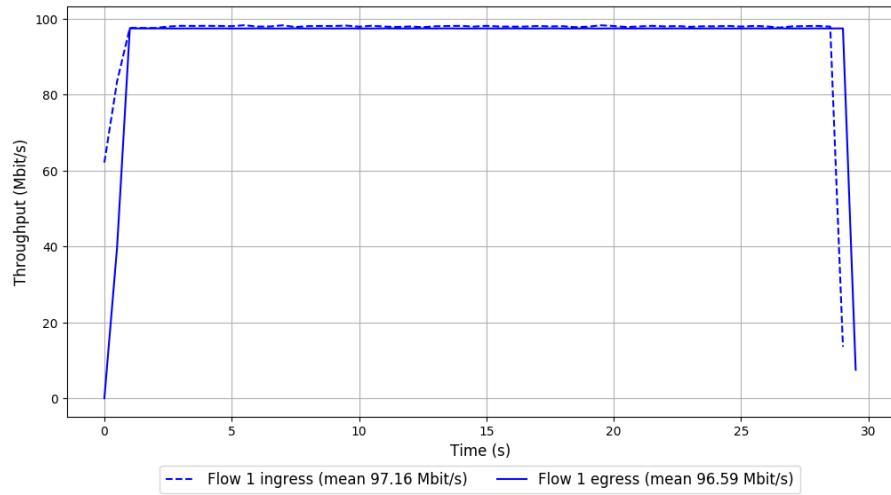


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 07:02:40
End at: 2019-03-27 07:03:10
Local clock offset: 0.896 ms
Remote clock offset: 2.249 ms

# Below is generated by plot.py at 2019-03-27 08:42:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 41.903 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 41.903 ms
Loss rate: 0.81%
```

Run 2: Report of Indigo-MusesT — Data Link

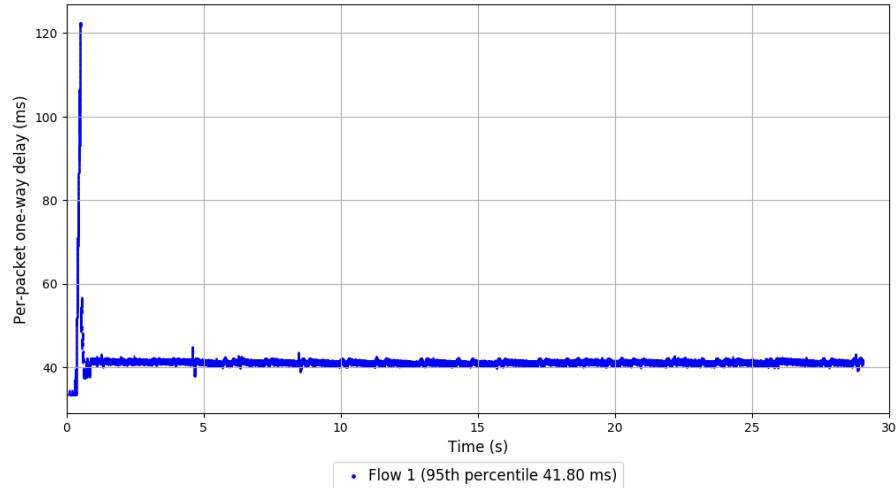
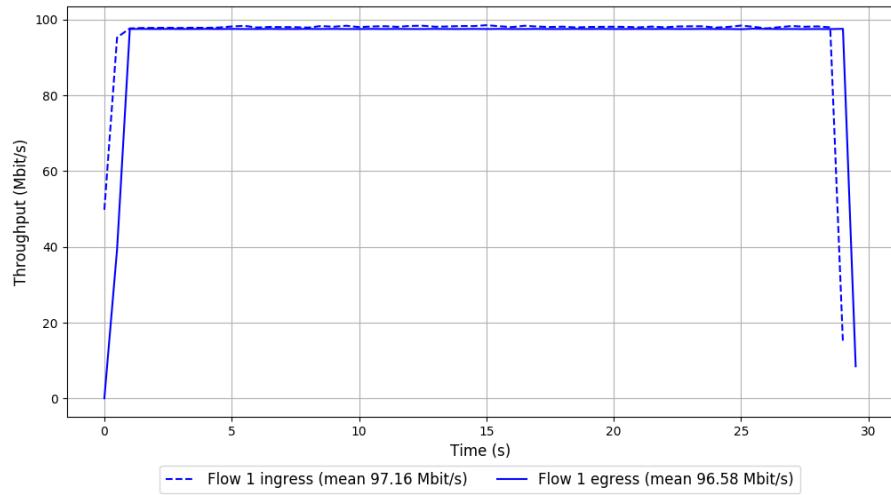


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 07:27:08
End at: 2019-03-27 07:27:38
Local clock offset: 0.229 ms
Remote clock offset: 3.255 ms

# Below is generated by plot.py at 2019-03-27 08:42:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 41.804 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 41.804 ms
Loss rate: 0.82%
```

Run 3: Report of Indigo-MusesT — Data Link

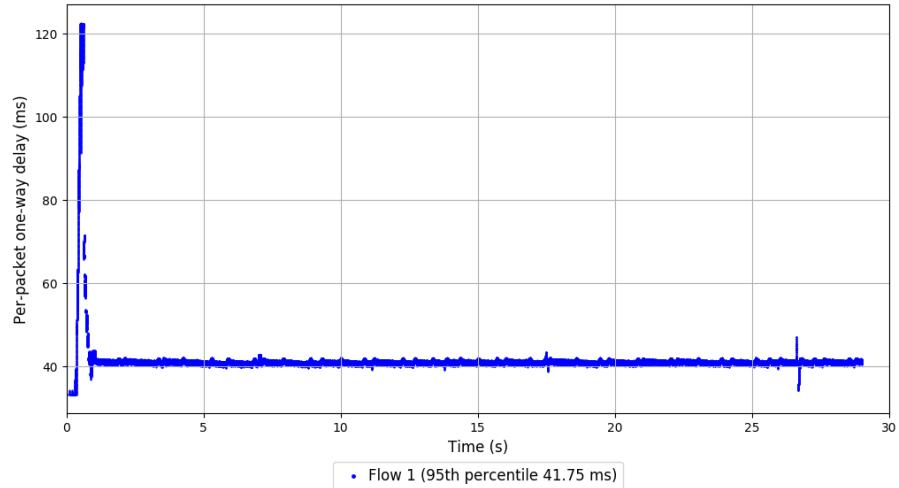
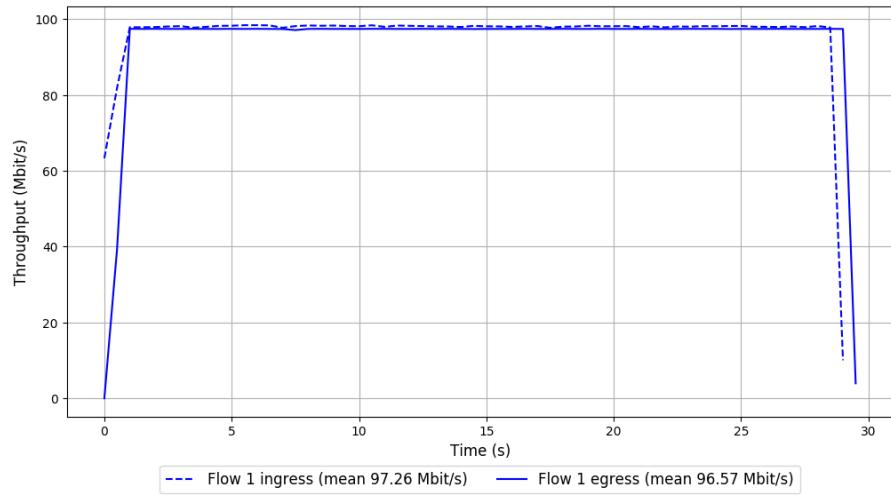


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 07:51:38
End at: 2019-03-27 07:52:08
Local clock offset: 0.31 ms
Remote clock offset: 2.985 ms

# Below is generated by plot.py at 2019-03-27 08:43:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 41.748 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 41.748 ms
Loss rate: 0.92%
```

Run 4: Report of Indigo-MusesT — Data Link

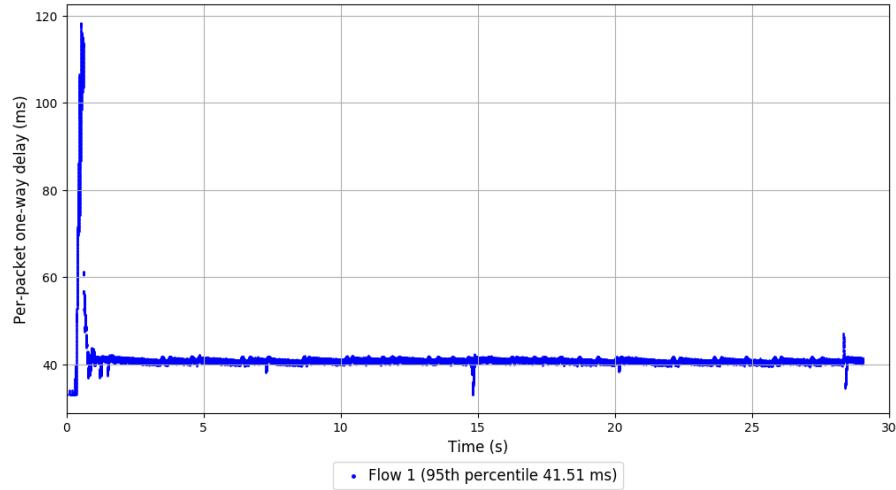
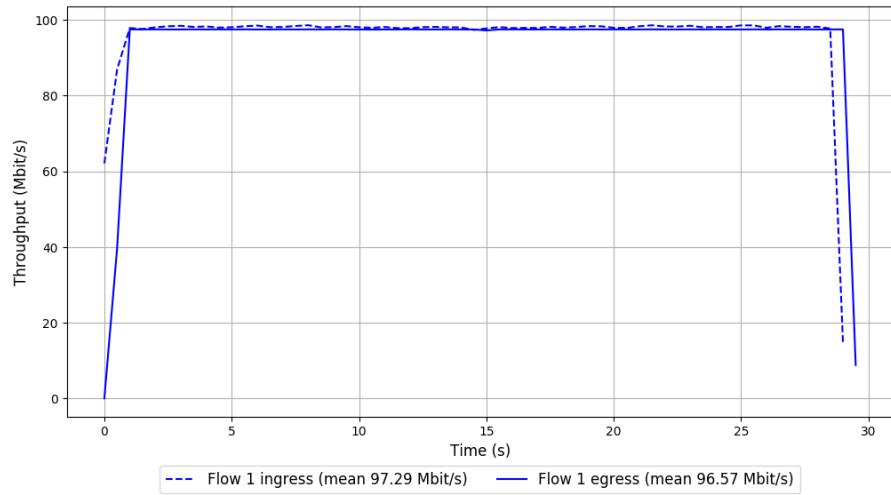


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 08:16:17
End at: 2019-03-27 08:16:47
Local clock offset: 0.534 ms
Remote clock offset: 2.18 ms

# Below is generated by plot.py at 2019-03-27 08:43:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 41.507 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 41.507 ms
Loss rate: 0.95%
```

Run 5: Report of Indigo-MusesT — Data Link

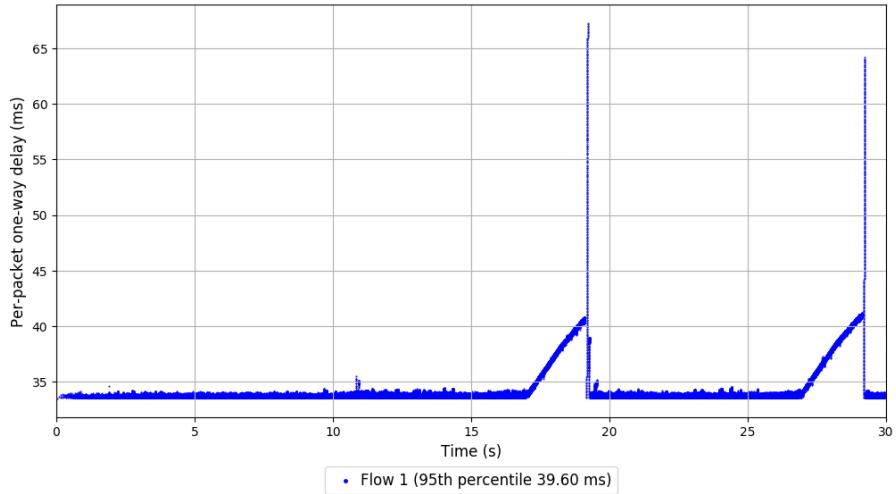
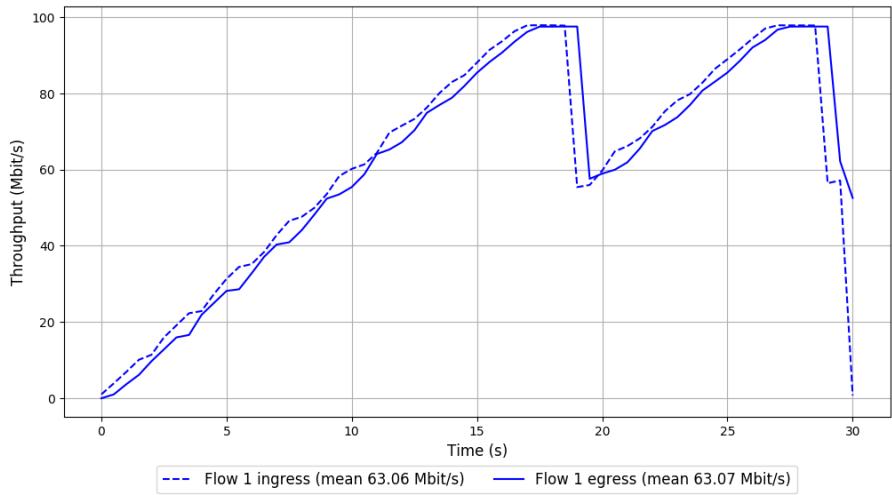


Run 1: Statistics of LEDBAT

```
Start at: 2019-03-27 06:35:45
End at: 2019-03-27 06:36:15
Local clock offset: 4.093 ms
Remote clock offset: 0.701 ms

# Below is generated by plot.py at 2019-03-27 08:43:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.07 Mbit/s
95th percentile per-packet one-way delay: 39.602 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 63.07 Mbit/s
95th percentile per-packet one-way delay: 39.602 ms
Loss rate: 0.20%
```

Run 1: Report of LEDBAT — Data Link

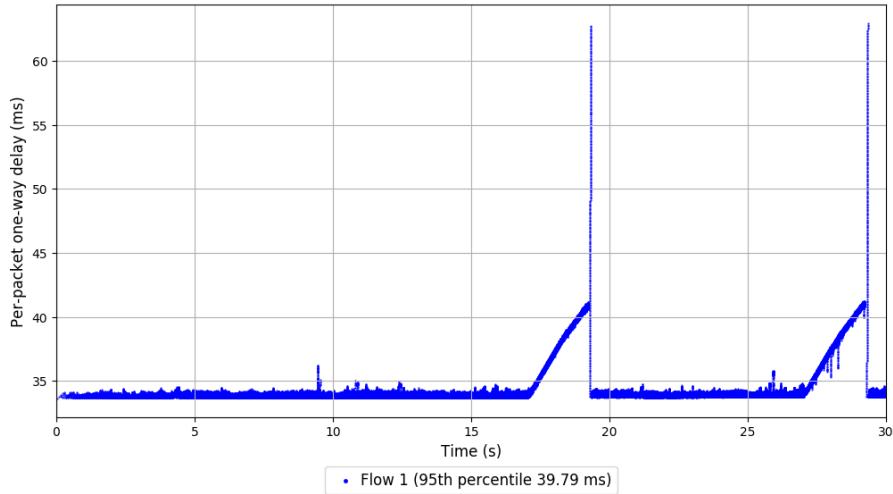
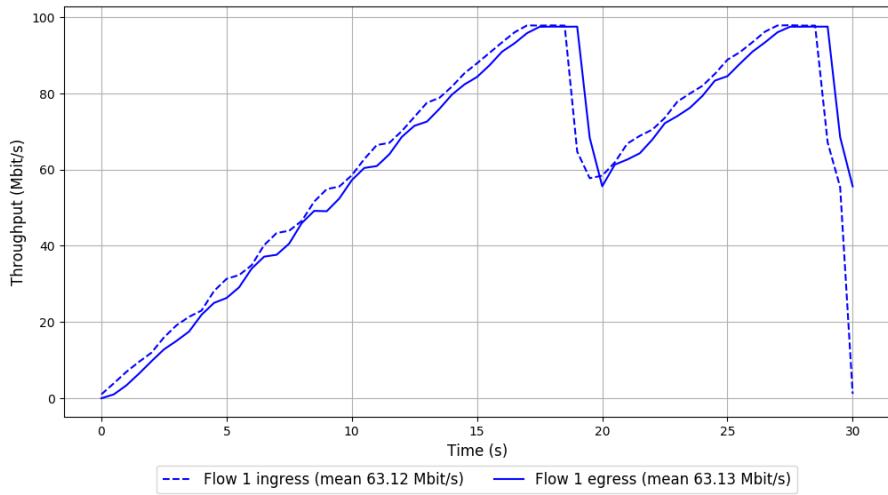


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-27 07:00:24
End at: 2019-03-27 07:00:54
Local clock offset: 1.088 ms
Remote clock offset: 1.983 ms

# Below is generated by plot.py at 2019-03-27 08:43:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.13 Mbit/s
95th percentile per-packet one-way delay: 39.791 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 63.13 Mbit/s
95th percentile per-packet one-way delay: 39.791 ms
Loss rate: 0.20%
```

Run 2: Report of LEDBAT — Data Link

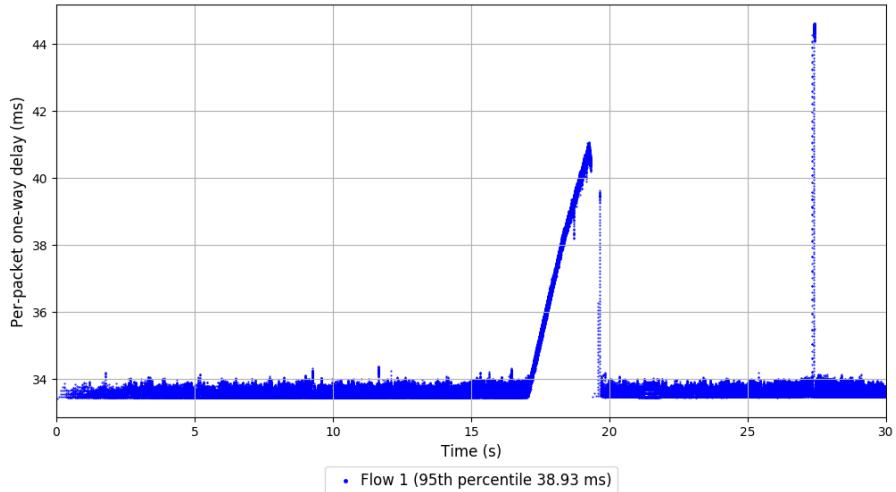
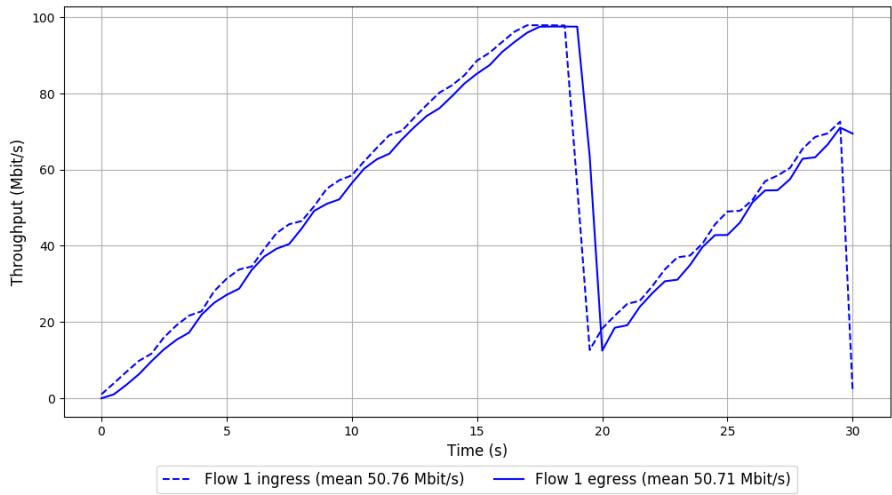


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-27 07:24:52
End at: 2019-03-27 07:25:22
Local clock offset: 0.207 ms
Remote clock offset: 3.072 ms

# Below is generated by plot.py at 2019-03-27 08:43:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.71 Mbit/s
95th percentile per-packet one-way delay: 38.926 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 50.71 Mbit/s
95th percentile per-packet one-way delay: 38.926 ms
Loss rate: 0.32%
```

Run 3: Report of LEDBAT — Data Link

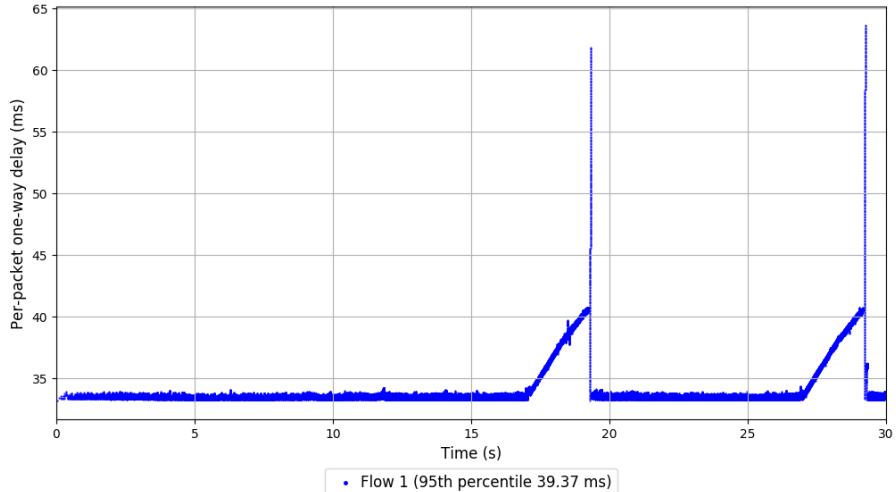
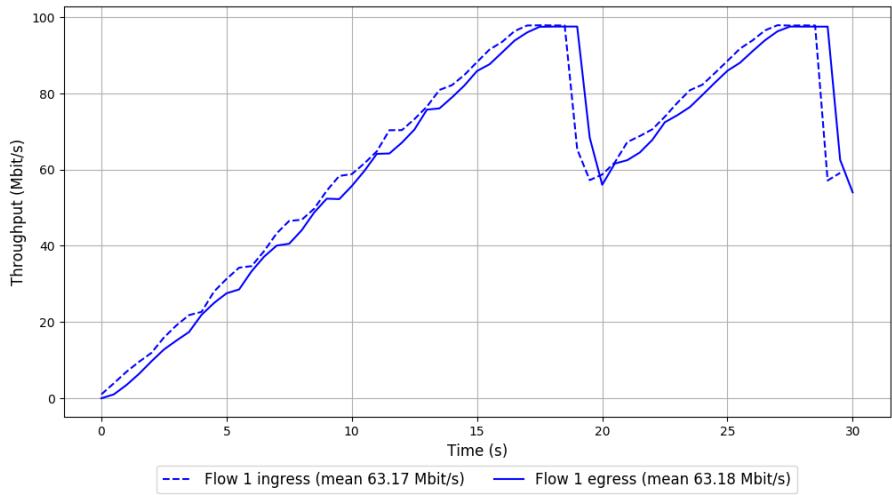


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-27 07:49:22
End at: 2019-03-27 07:49:52
Local clock offset: 0.278 ms
Remote clock offset: 3.064 ms

# Below is generated by plot.py at 2019-03-27 08:43:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.18 Mbit/s
95th percentile per-packet one-way delay: 39.372 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 63.18 Mbit/s
95th percentile per-packet one-way delay: 39.372 ms
Loss rate: 0.20%
```

Run 4: Report of LEDBAT — Data Link

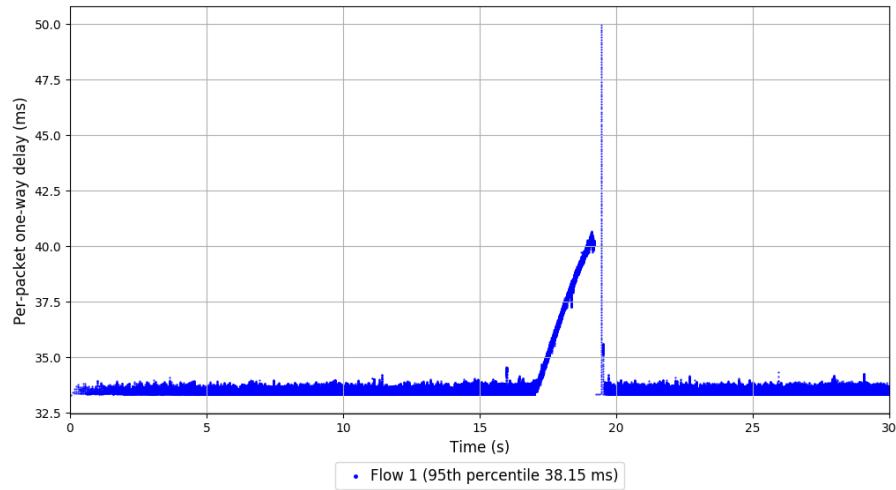
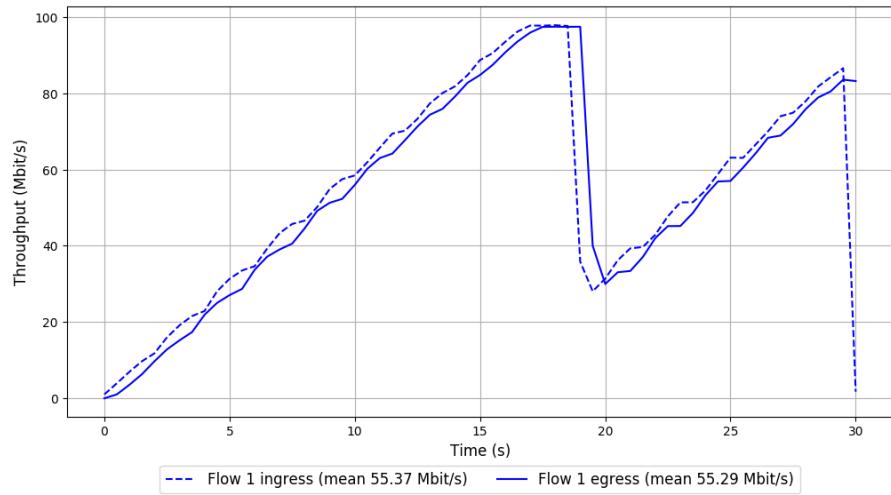


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-27 08:14:01
End at: 2019-03-27 08:14:31
Local clock offset: 0.435 ms
Remote clock offset: 2.237 ms

# Below is generated by plot.py at 2019-03-27 08:43:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.29 Mbit/s
95th percentile per-packet one-way delay: 38.150 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 55.29 Mbit/s
95th percentile per-packet one-way delay: 38.150 ms
Loss rate: 0.35%
```

Run 5: Report of LEDBAT — Data Link

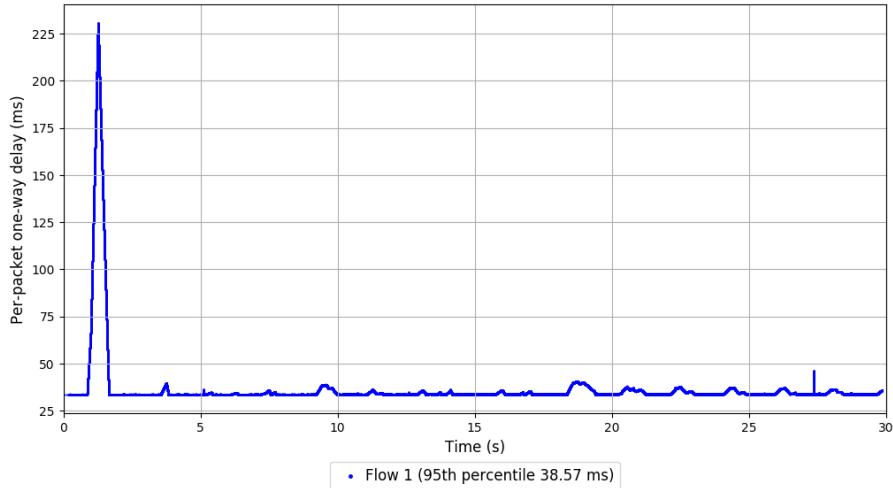
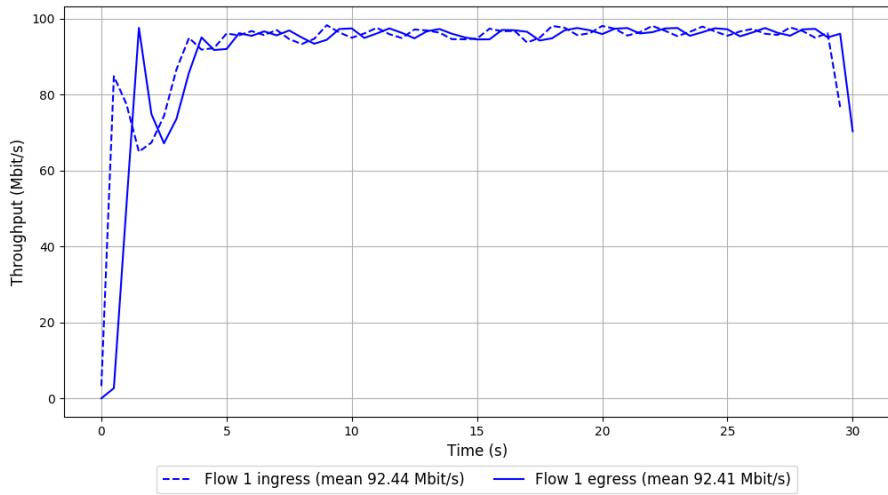


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-03-27 06:49:51
End at: 2019-03-27 06:50:22
Local clock offset: 3.112 ms
Remote clock offset: 1.647 ms

# Below is generated by plot.py at 2019-03-27 08:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.41 Mbit/s
95th percentile per-packet one-way delay: 38.574 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 92.41 Mbit/s
95th percentile per-packet one-way delay: 38.574 ms
Loss rate: 0.24%
```

Run 1: Report of PCC-Allegro — Data Link

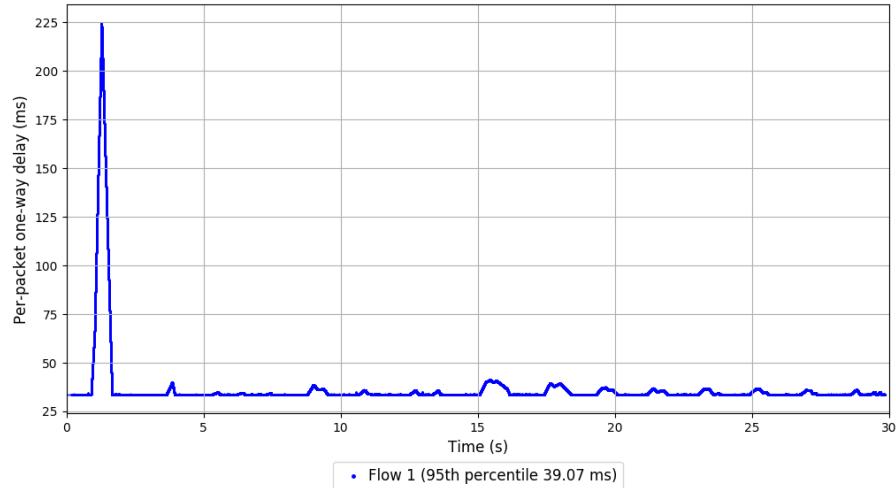
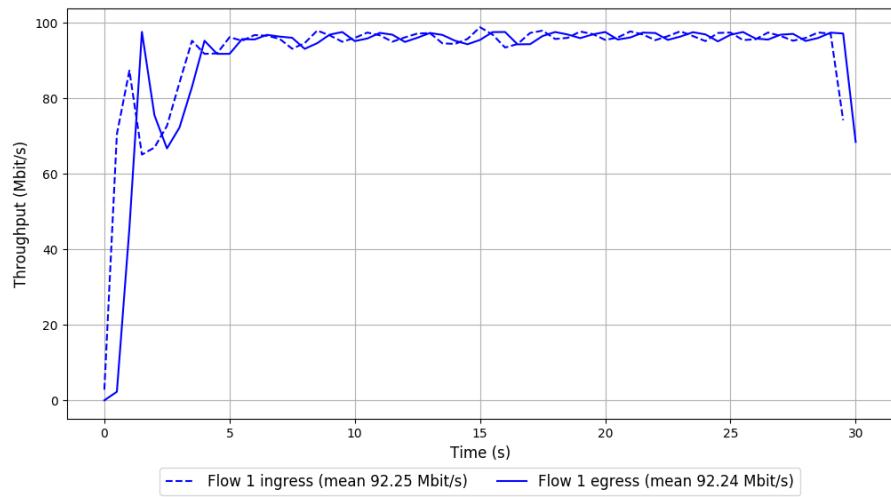


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-27 07:14:24
End at: 2019-03-27 07:14:54
Local clock offset: 0.371 ms
Remote clock offset: 2.668 ms

# Below is generated by plot.py at 2019-03-27 08:44:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 39.071 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 39.071 ms
Loss rate: 0.23%
```

Run 2: Report of PCC-Allegro — Data Link

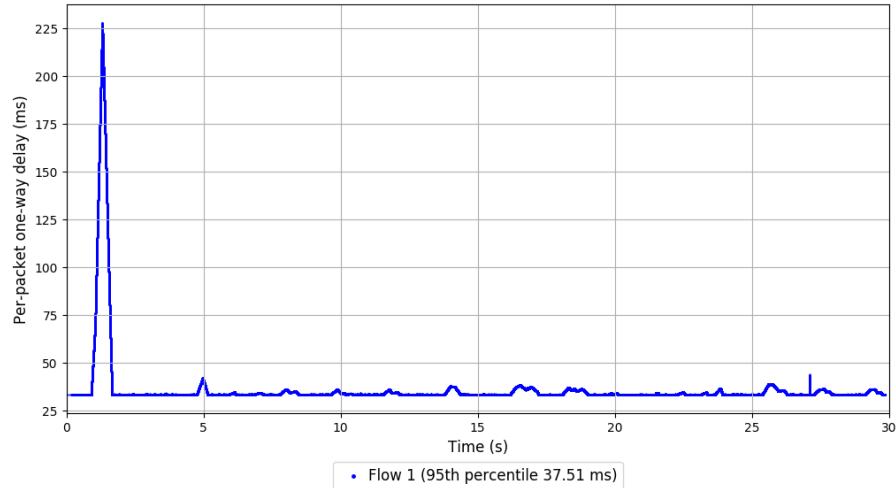
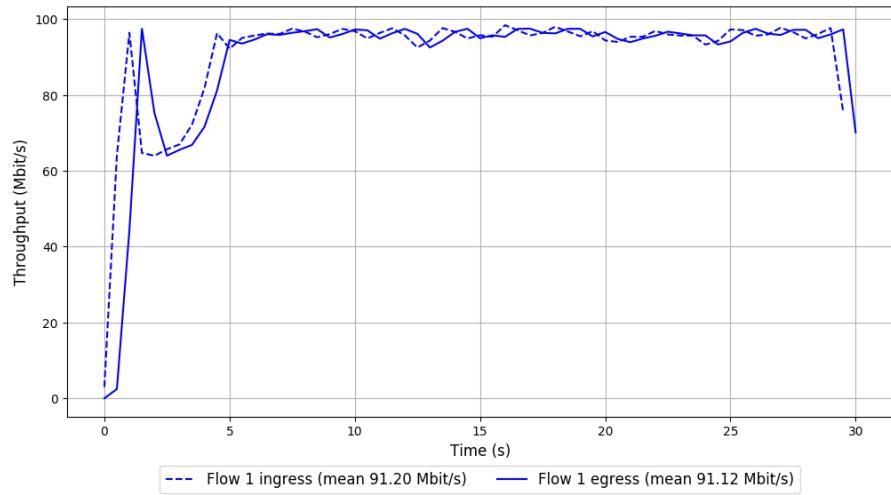


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-27 07:38:54
End at: 2019-03-27 07:39:24
Local clock offset: 0.218 ms
Remote clock offset: 3.441 ms

# Below is generated by plot.py at 2019-03-27 08:44:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.12 Mbit/s
95th percentile per-packet one-way delay: 37.505 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 91.12 Mbit/s
95th percentile per-packet one-way delay: 37.505 ms
Loss rate: 0.31%
```

Run 3: Report of PCC-Allegro — Data Link

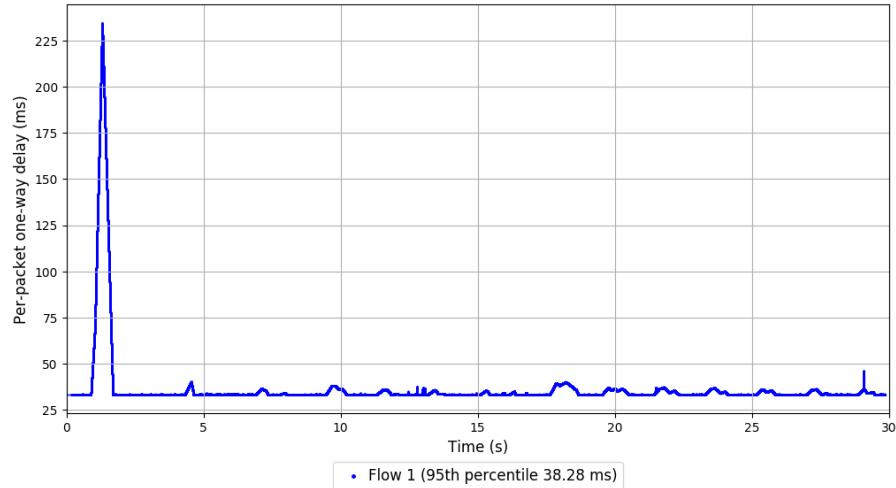
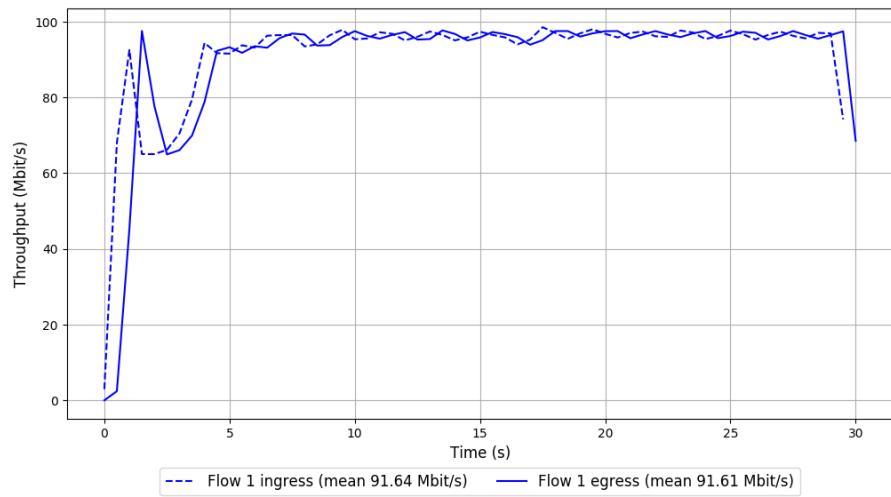


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-27 08:03:33
End at: 2019-03-27 08:04:03
Local clock offset: 0.38 ms
Remote clock offset: 2.487 ms

# Below is generated by plot.py at 2019-03-27 08:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.61 Mbit/s
95th percentile per-packet one-way delay: 38.276 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 91.61 Mbit/s
95th percentile per-packet one-way delay: 38.276 ms
Loss rate: 0.25%
```

Run 4: Report of PCC-Allegro — Data Link

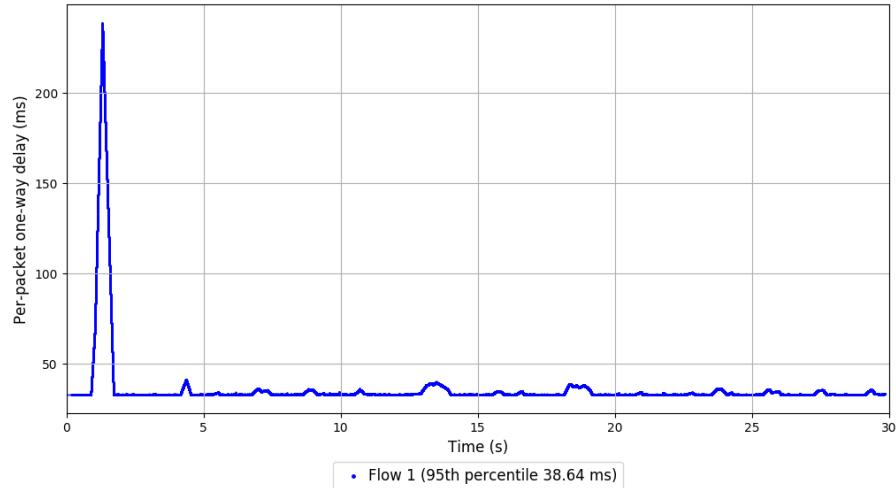
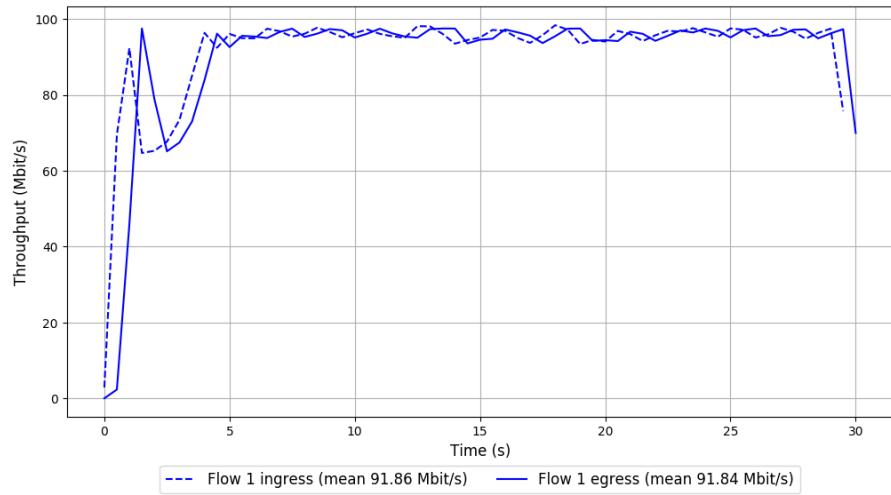


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-27 08:28:04
End at: 2019-03-27 08:28:34
Local clock offset: 2.937 ms
Remote clock offset: 2.002 ms

# Below is generated by plot.py at 2019-03-27 08:44:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.84 Mbit/s
95th percentile per-packet one-way delay: 38.642 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 91.84 Mbit/s
95th percentile per-packet one-way delay: 38.642 ms
Loss rate: 0.23%
```

Run 5: Report of PCC-Allegro — Data Link

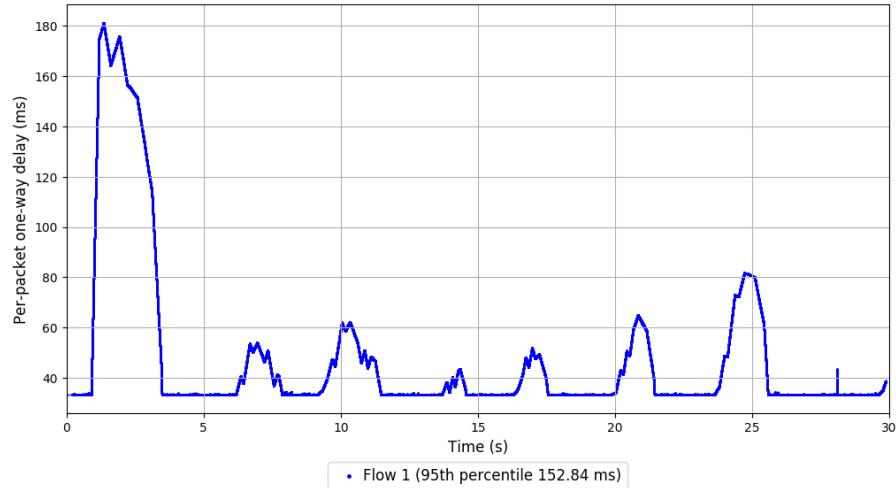
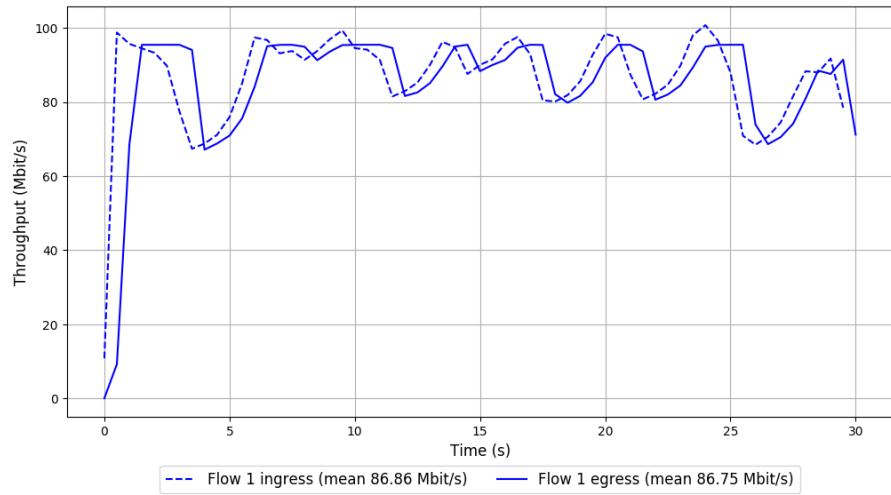


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-03-27 06:31:02
End at: 2019-03-27 06:31:32
Local clock offset: 3.678 ms
Remote clock offset: 0.64 ms

# Below is generated by plot.py at 2019-03-27 08:45:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.75 Mbit/s
95th percentile per-packet one-way delay: 152.845 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 86.75 Mbit/s
95th percentile per-packet one-way delay: 152.845 ms
Loss rate: 0.34%
```

Run 1: Report of PCC-Expr — Data Link

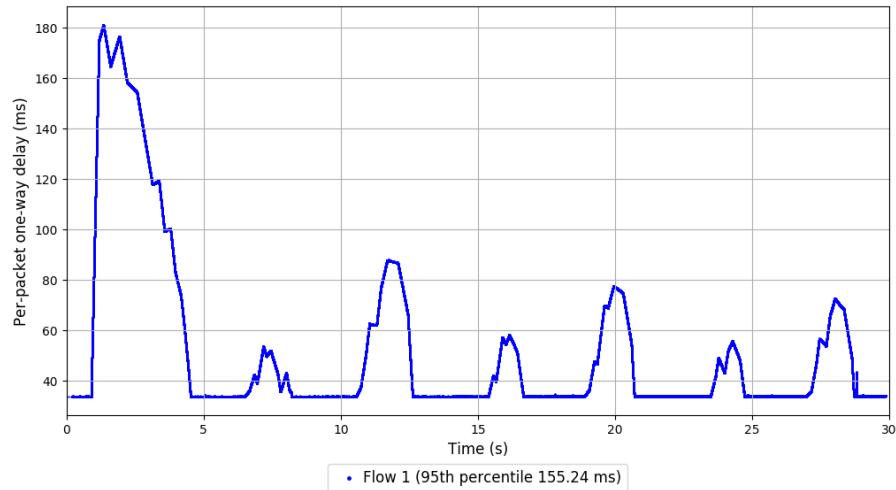
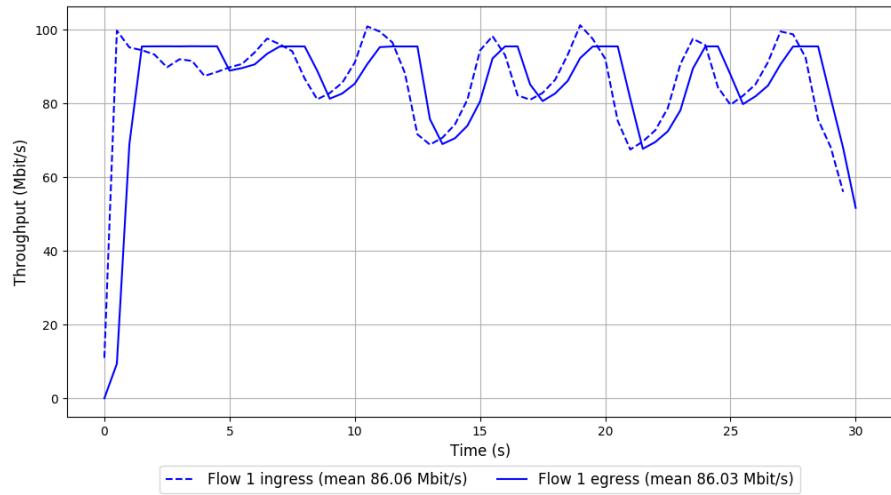


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-27 06:55:38
End at: 2019-03-27 06:56:08
Local clock offset: 1.709 ms
Remote clock offset: 1.841 ms

# Below is generated by plot.py at 2019-03-27 08:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.03 Mbit/s
95th percentile per-packet one-way delay: 155.243 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 86.03 Mbit/s
95th percentile per-packet one-way delay: 155.243 ms
Loss rate: 0.25%
```

Run 2: Report of PCC-Expr — Data Link

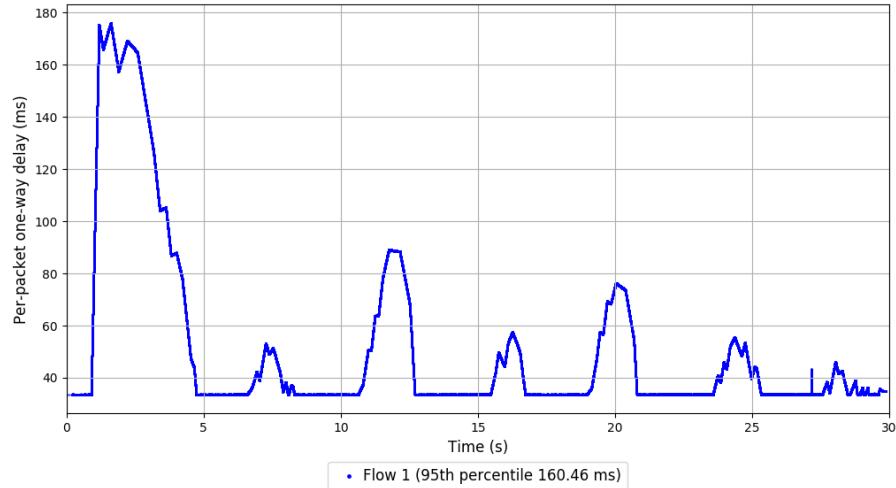
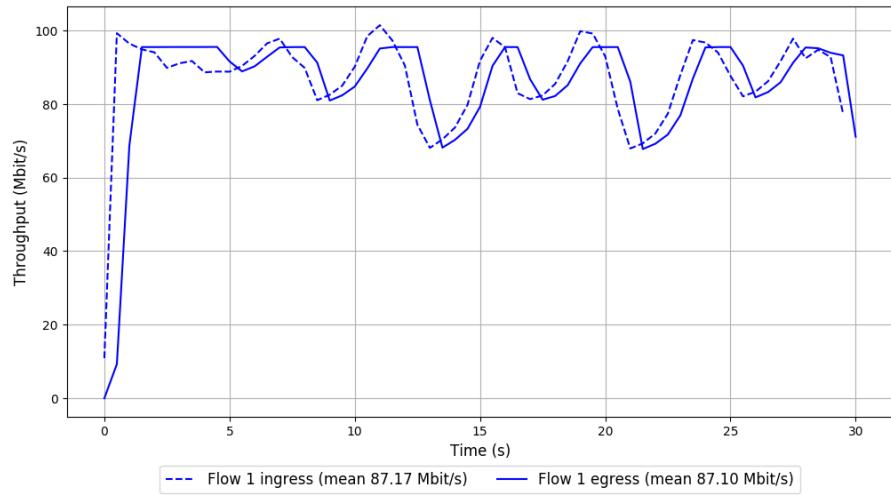


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-27 07:20:09
End at: 2019-03-27 07:20:39
Local clock offset: 0.244 ms
Remote clock offset: 2.802 ms

# Below is generated by plot.py at 2019-03-27 08:45:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 160.464 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 160.464 ms
Loss rate: 0.30%
```

Run 3: Report of PCC-Expr — Data Link

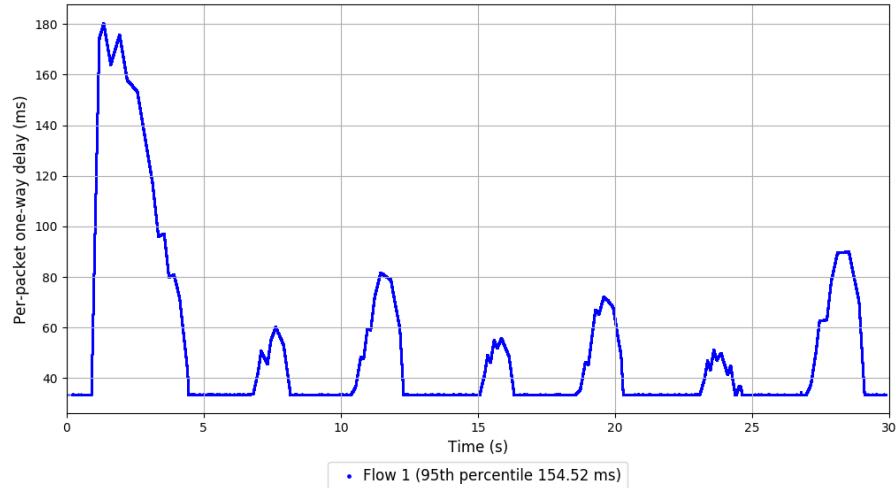
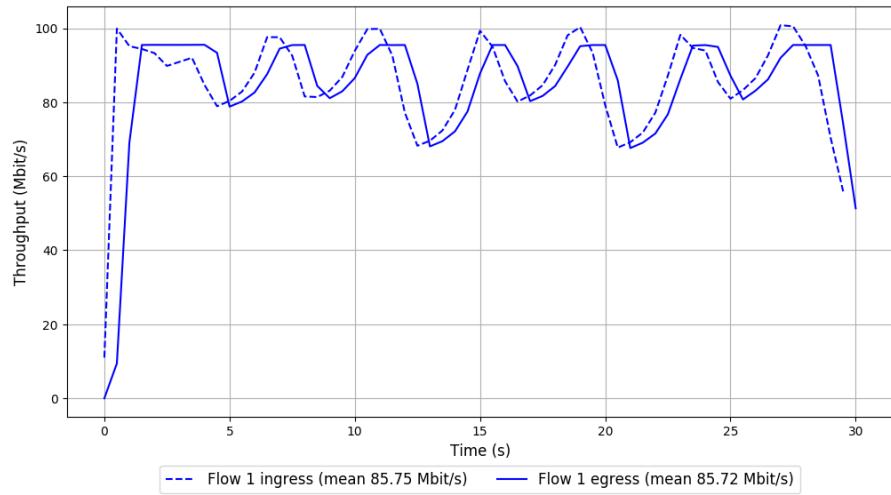


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-27 07:44:38
End at: 2019-03-27 07:45:08
Local clock offset: 0.241 ms
Remote clock offset: 3.198 ms

# Below is generated by plot.py at 2019-03-27 08:45:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 154.519 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 154.519 ms
Loss rate: 0.25%
```

Run 4: Report of PCC-Expr — Data Link

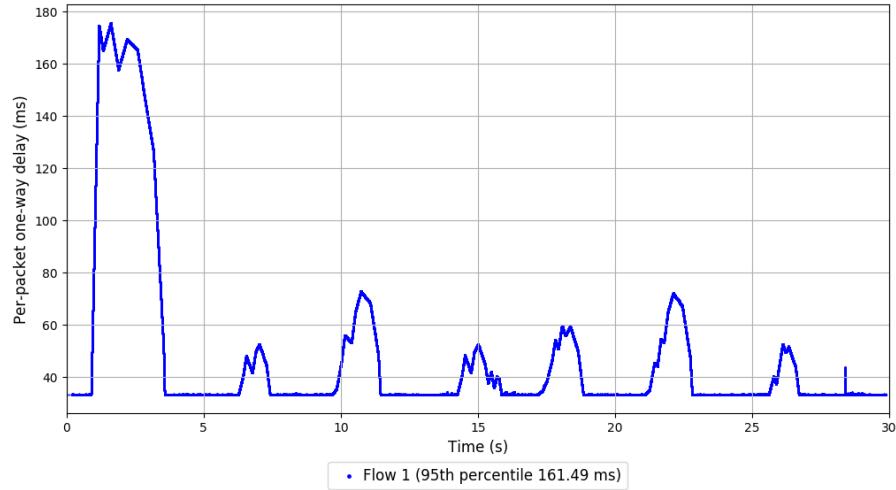
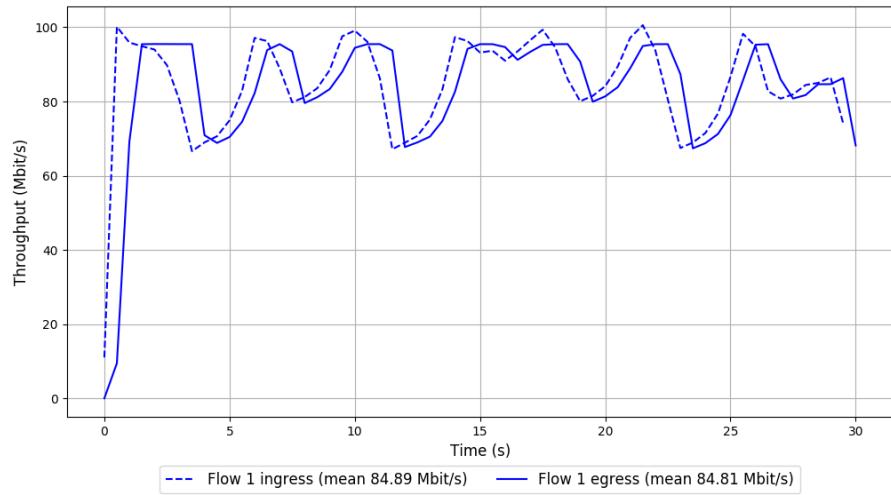


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-27 08:09:18
End at: 2019-03-27 08:09:48
Local clock offset: 0.413 ms
Remote clock offset: 2.311 ms

# Below is generated by plot.py at 2019-03-27 08:46:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.81 Mbit/s
95th percentile per-packet one-way delay: 161.490 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 84.81 Mbit/s
95th percentile per-packet one-way delay: 161.490 ms
Loss rate: 0.31%
```

Run 5: Report of PCC-Expr — Data Link

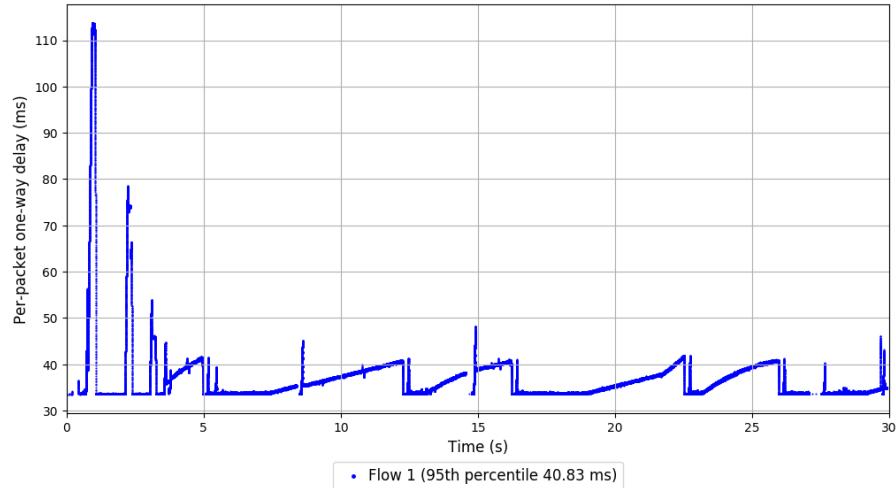
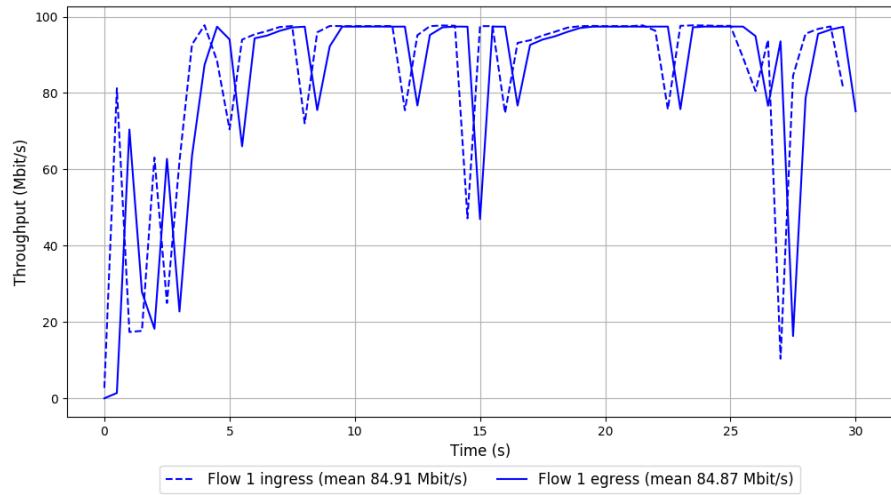


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-03-27 06:40:23
End at: 2019-03-27 06:40:53
Local clock offset: 4.435 ms
Remote clock offset: 0.937 ms

# Below is generated by plot.py at 2019-03-27 08:46:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.87 Mbit/s
95th percentile per-packet one-way delay: 40.829 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 84.87 Mbit/s
95th percentile per-packet one-way delay: 40.829 ms
Loss rate: 0.26%
```

Run 1: Report of QUIC Cubic — Data Link

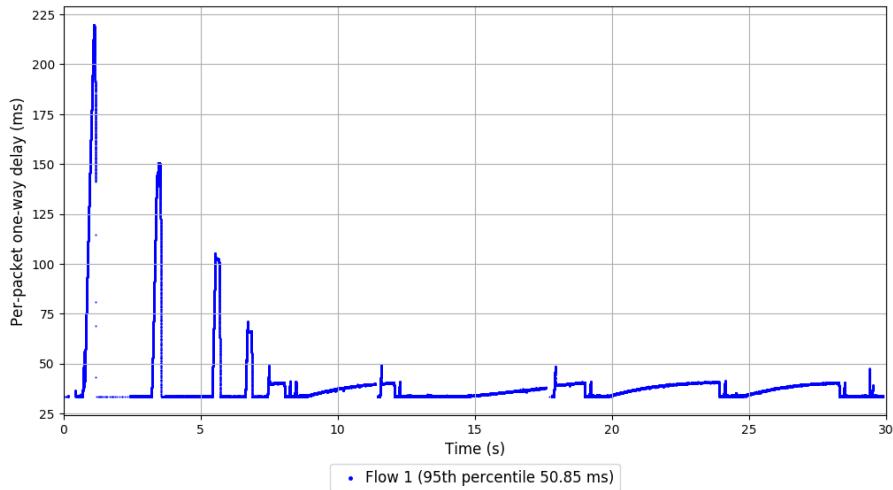
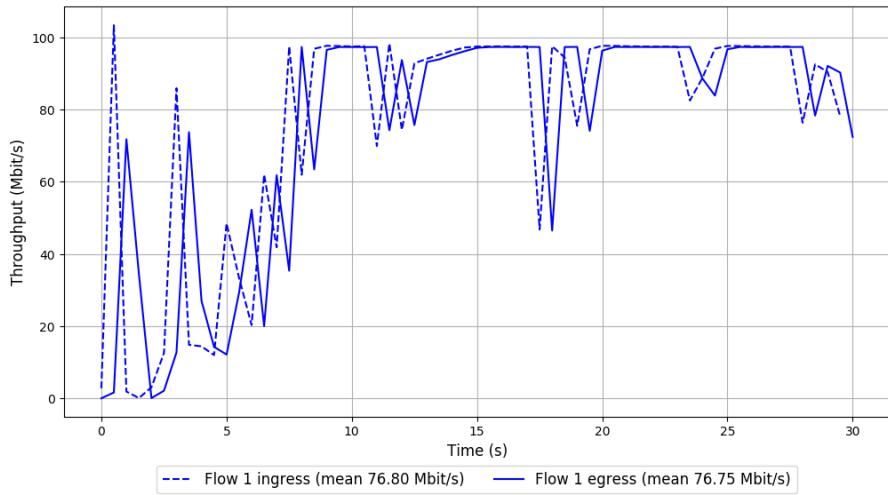


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-27 07:05:01
End at: 2019-03-27 07:05:31
Local clock offset: 0.724 ms
Remote clock offset: 2.353 ms

# Below is generated by plot.py at 2019-03-27 08:46:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.75 Mbit/s
95th percentile per-packet one-way delay: 50.852 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 76.75 Mbit/s
95th percentile per-packet one-way delay: 50.852 ms
Loss rate: 0.28%
```

Run 2: Report of QUIC Cubic — Data Link

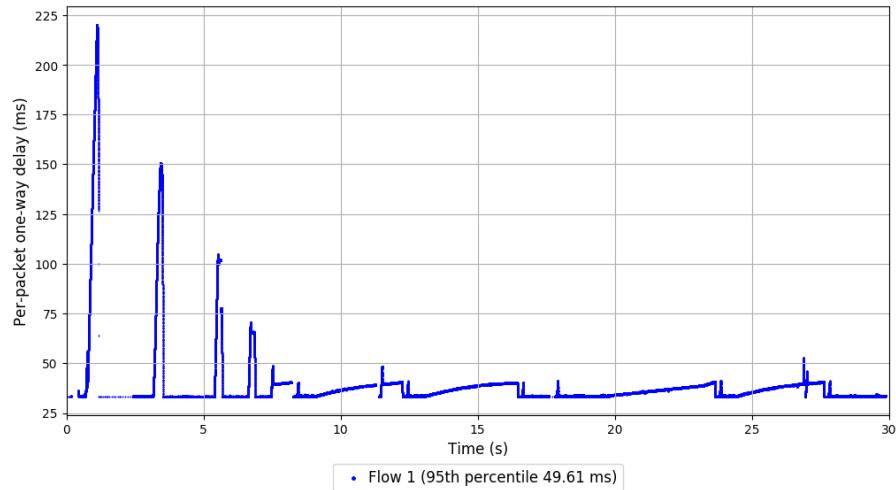
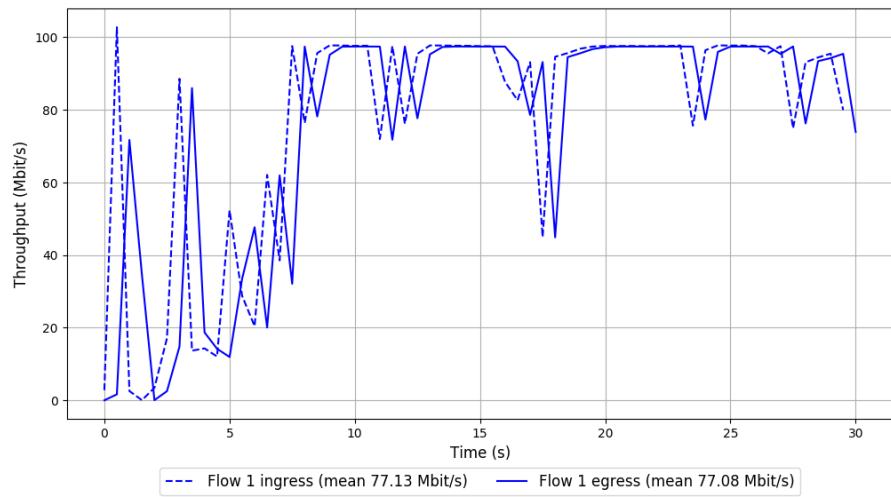


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-27 07:29:29
End at: 2019-03-27 07:29:59
Local clock offset: 0.211 ms
Remote clock offset: 3.393 ms

# Below is generated by plot.py at 2019-03-27 08:46:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.08 Mbit/s
95th percentile per-packet one-way delay: 49.606 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 77.08 Mbit/s
95th percentile per-packet one-way delay: 49.606 ms
Loss rate: 0.28%
```

Run 3: Report of QUIC Cubic — Data Link

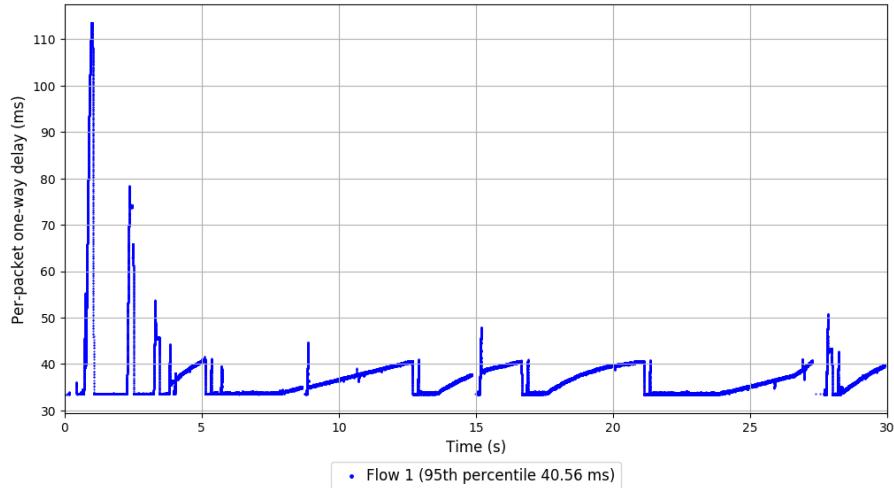
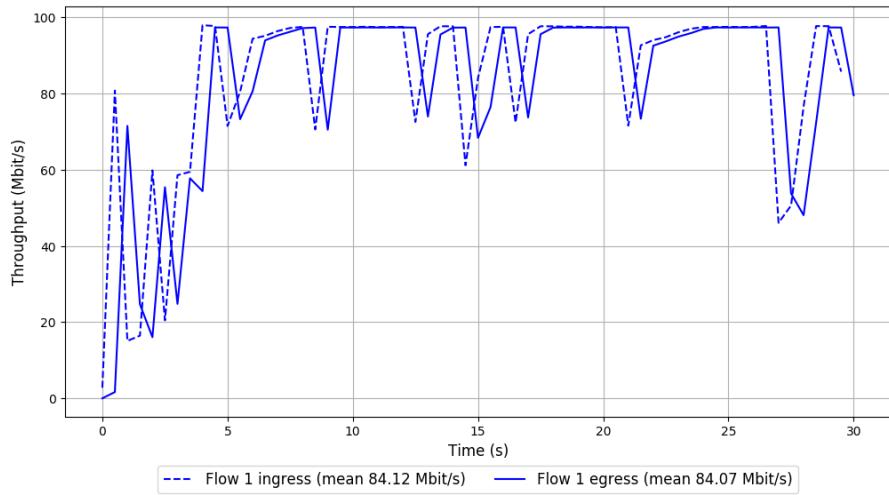


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-27 07:54:07
End at: 2019-03-27 07:54:37
Local clock offset: 0.337 ms
Remote clock offset: 2.718 ms

# Below is generated by plot.py at 2019-03-27 08:46:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.07 Mbit/s
95th percentile per-packet one-way delay: 40.562 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 84.07 Mbit/s
95th percentile per-packet one-way delay: 40.562 ms
Loss rate: 0.28%
```

Run 4: Report of QUIC Cubic — Data Link

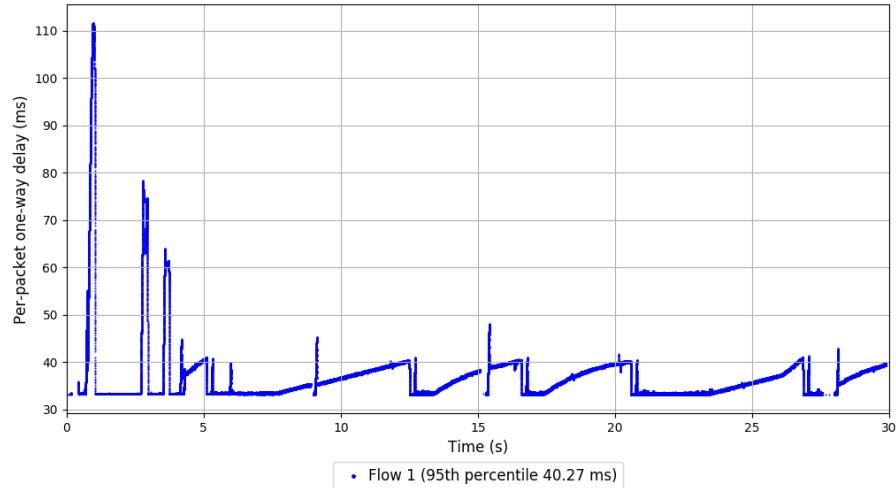
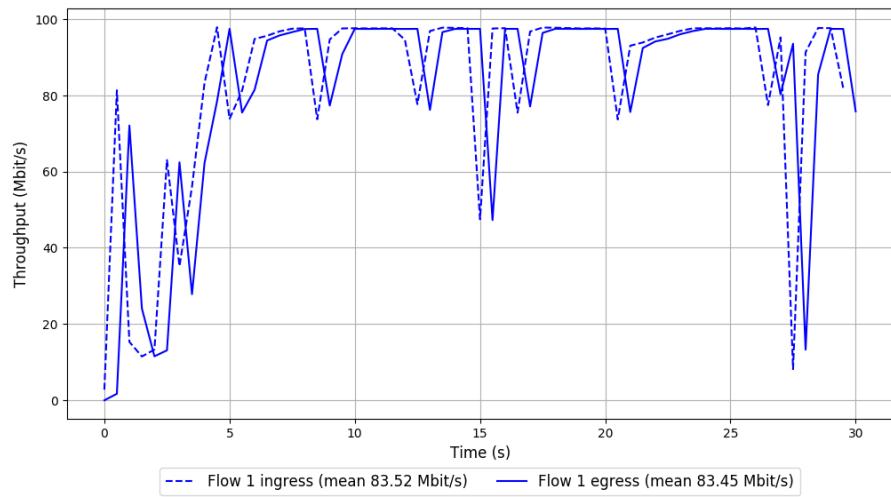


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-27 08:18:38
End at: 2019-03-27 08:19:08
Local clock offset: 1.258 ms
Remote clock offset: 2.137 ms

# Below is generated by plot.py at 2019-03-27 08:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.45 Mbit/s
95th percentile per-packet one-way delay: 40.265 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 83.45 Mbit/s
95th percentile per-packet one-way delay: 40.265 ms
Loss rate: 0.29%
```

Run 5: Report of QUIC Cubic — Data Link

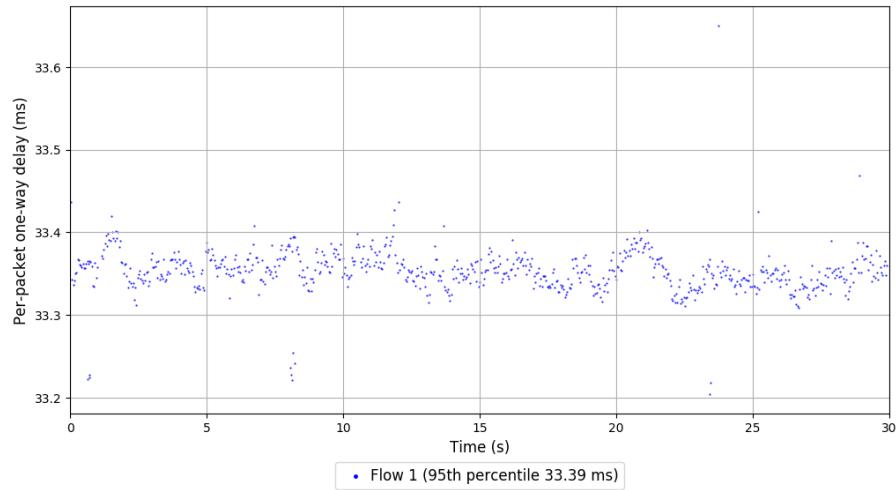
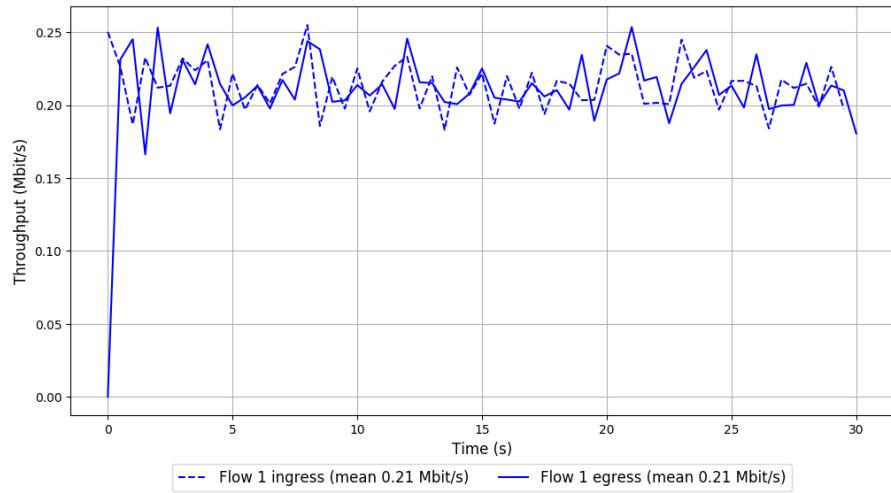


Run 1: Statistics of SCReAM

```
Start at: 2019-03-27 06:36:55
End at: 2019-03-27 06:37:25
Local clock offset: 4.19 ms
Remote clock offset: 0.957 ms

# Below is generated by plot.py at 2019-03-27 08:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.388 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.388 ms
Loss rate: 0.26%
```

Run 1: Report of SCReAM — Data Link

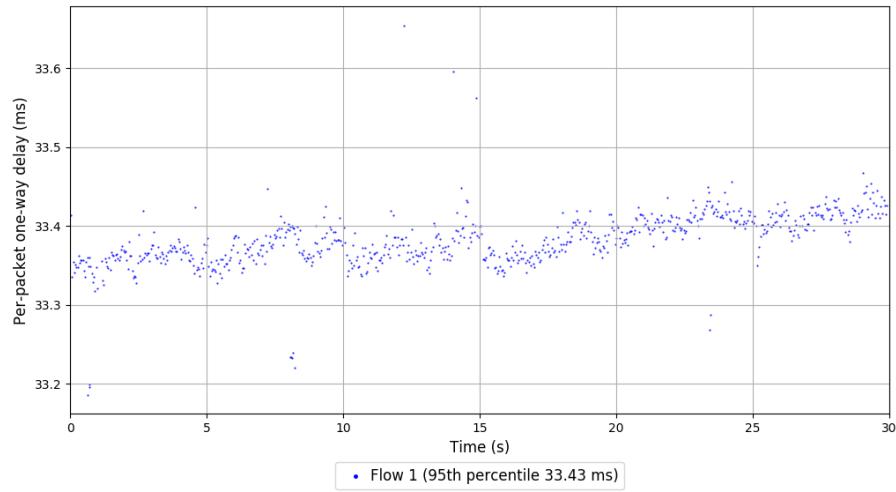
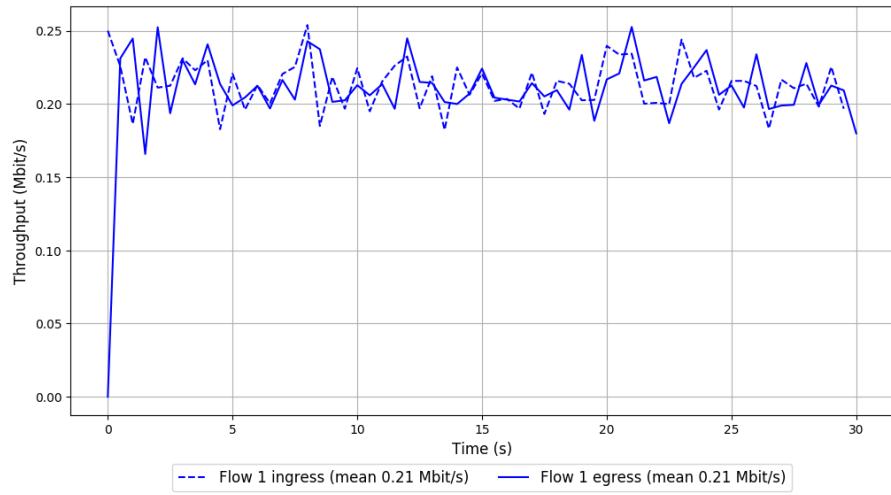


Run 2: Statistics of SCReAM

```
Start at: 2019-03-27 07:01:34
End at: 2019-03-27 07:02:04
Local clock offset: 0.966 ms
Remote clock offset: 2.273 ms

# Below is generated by plot.py at 2019-03-27 08:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.426 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.426 ms
Loss rate: 0.26%
```

Run 2: Report of SCReAM — Data Link

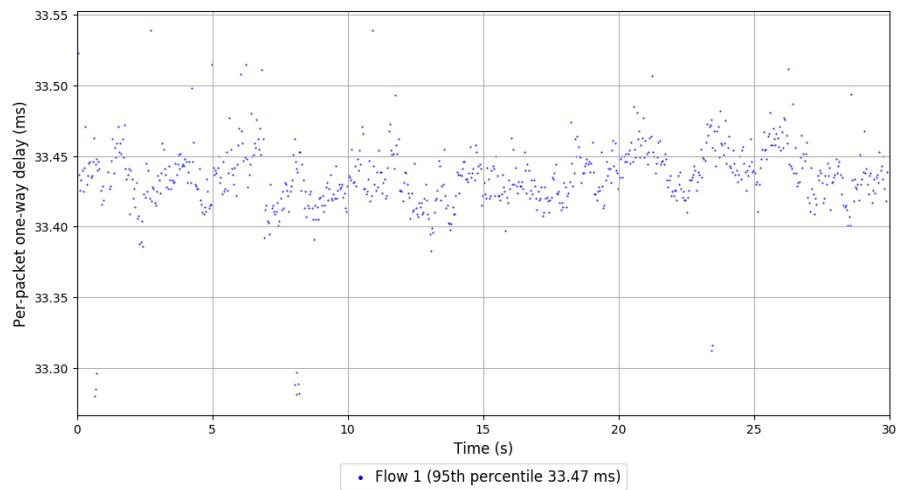
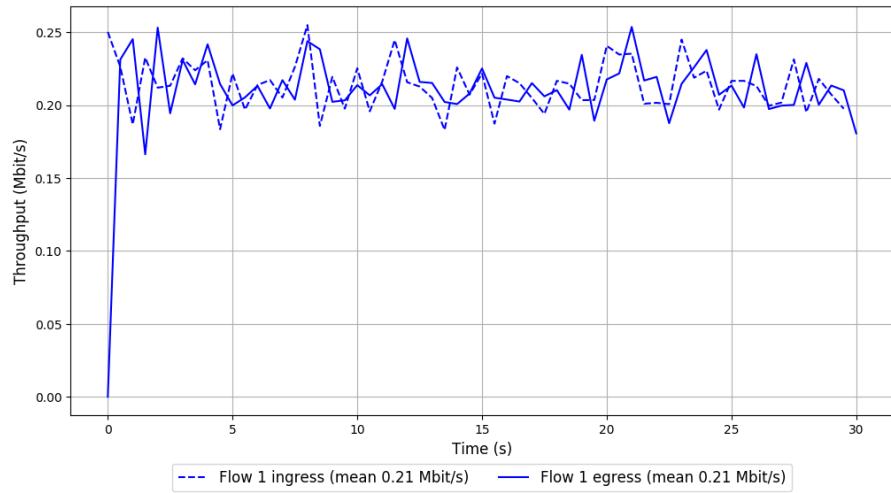


Run 3: Statistics of SCReAM

```
Start at: 2019-03-27 07:26:02
End at: 2019-03-27 07:26:32
Local clock offset: 0.23 ms
Remote clock offset: 3.239 ms

# Below is generated by plot.py at 2019-03-27 08:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.470 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.470 ms
Loss rate: 0.26%
```

Run 3: Report of SCReAM — Data Link

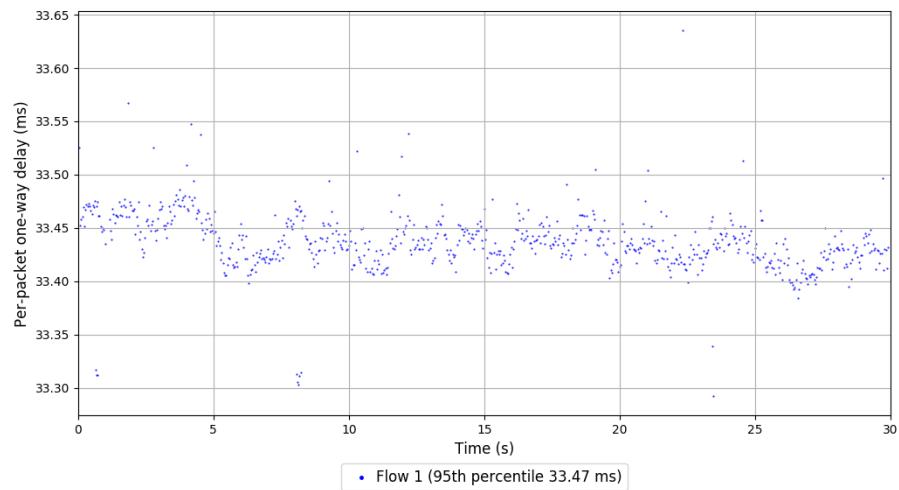
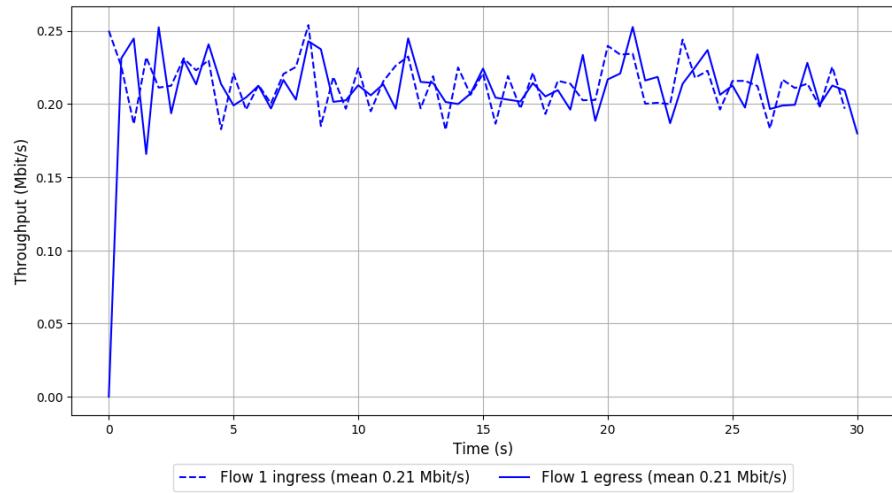


Run 4: Statistics of SCReAM

```
Start at: 2019-03-27 07:50:31
End at: 2019-03-27 07:51:02
Local clock offset: 0.315 ms
Remote clock offset: 2.982 ms

# Below is generated by plot.py at 2019-03-27 08:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.474 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.474 ms
Loss rate: 0.26%
```

Run 4: Report of SCReAM — Data Link

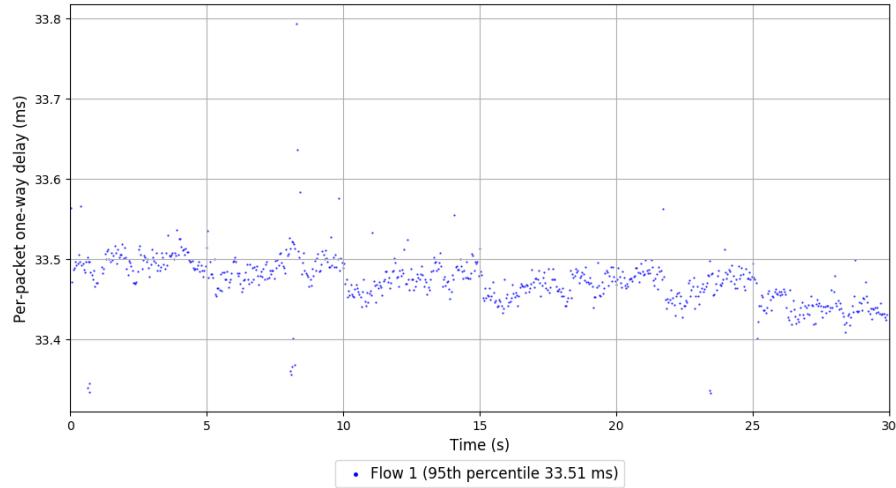
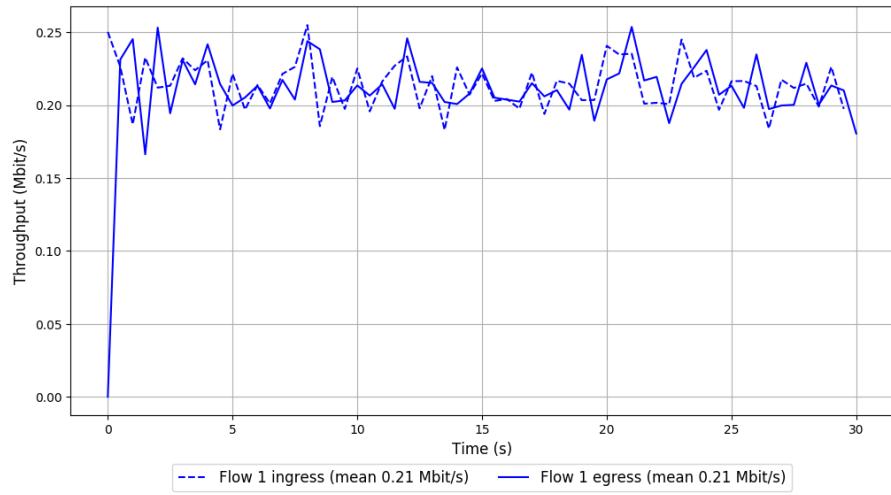


Run 5: Statistics of SCReAM

```
Start at: 2019-03-27 08:15:11
End at: 2019-03-27 08:15:41
Local clock offset: 0.44 ms
Remote clock offset: 2.017 ms

# Below is generated by plot.py at 2019-03-27 08:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.511 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.511 ms
Loss rate: 0.26%
```

Run 5: Report of SCReAM — Data Link

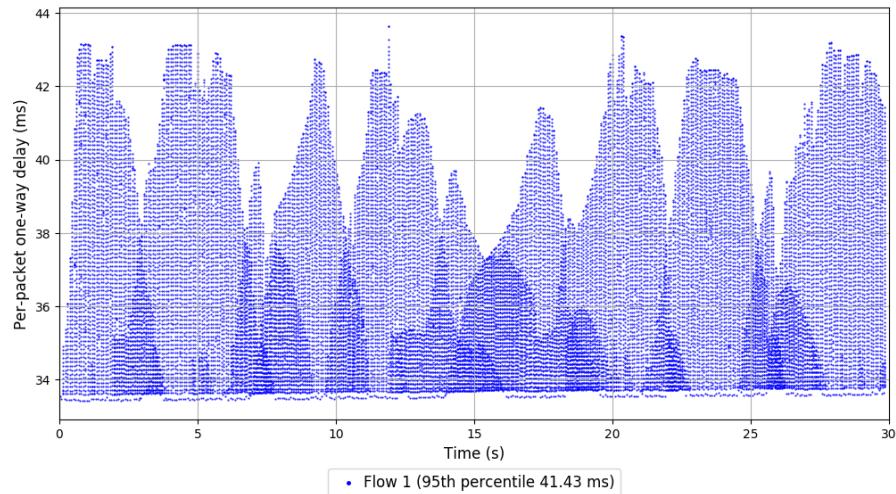
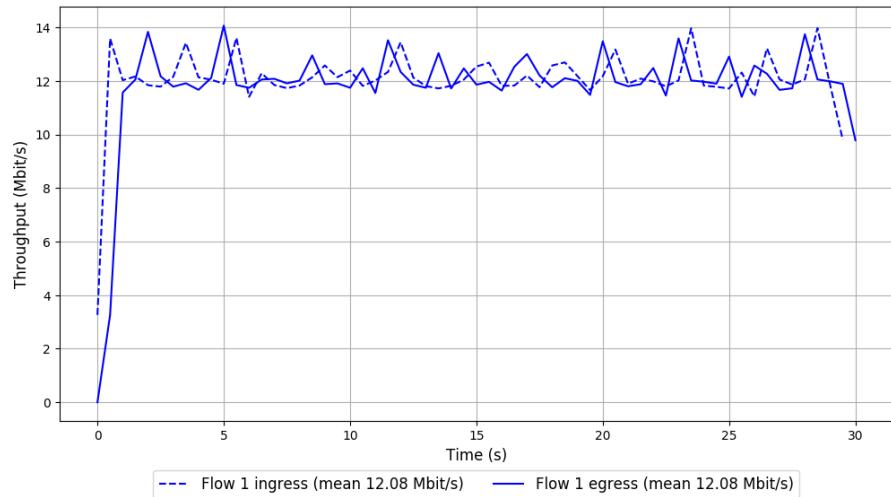


Run 1: Statistics of Sprout

```
Start at: 2019-03-27 06:51:01
End at: 2019-03-27 06:51:31
Local clock offset: 2.797 ms
Remote clock offset: 1.753 ms

# Below is generated by plot.py at 2019-03-27 08:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 41.429 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 41.429 ms
Loss rate: 0.27%
```

Run 1: Report of Sprout — Data Link

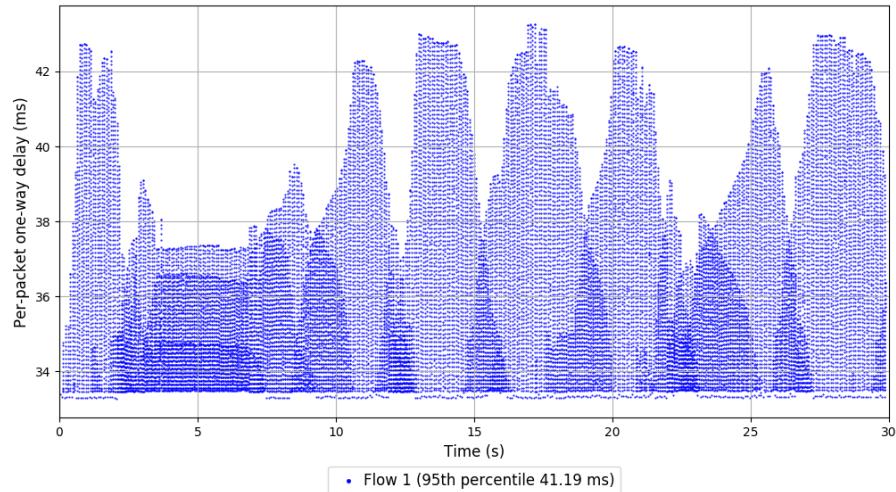
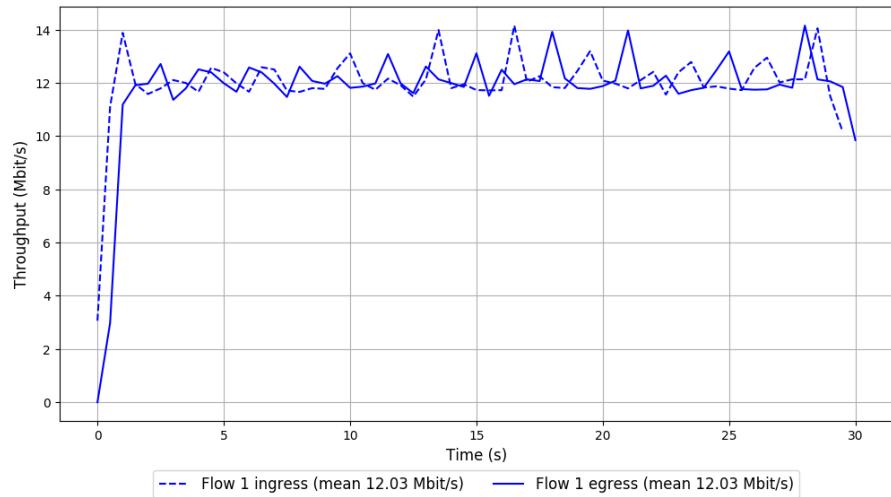


Run 2: Statistics of Sprout

```
Start at: 2019-03-27 07:15:33
End at: 2019-03-27 07:16:03
Local clock offset: 0.3 ms
Remote clock offset: 2.739 ms

# Below is generated by plot.py at 2019-03-27 08:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 41.193 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 41.193 ms
Loss rate: 0.27%
```

Run 2: Report of Sprout — Data Link

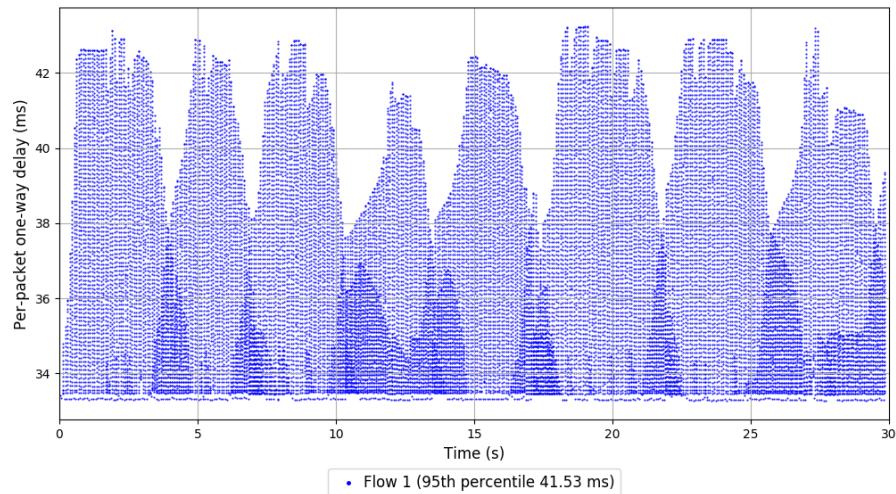
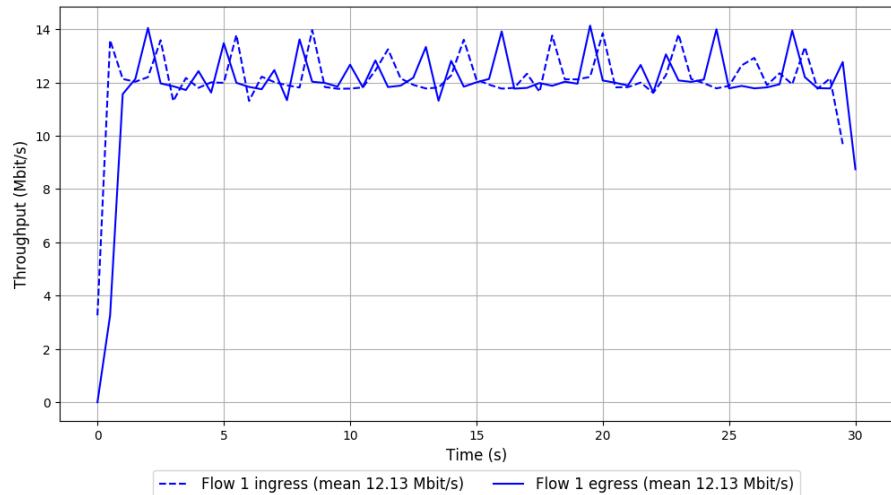


Run 3: Statistics of Sprout

```
Start at: 2019-03-27 07:40:03
End at: 2019-03-27 07:40:33
Local clock offset: 0.216 ms
Remote clock offset: 3.295 ms

# Below is generated by plot.py at 2019-03-27 08:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 41.531 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 41.531 ms
Loss rate: 0.27%
```

Run 3: Report of Sprout — Data Link

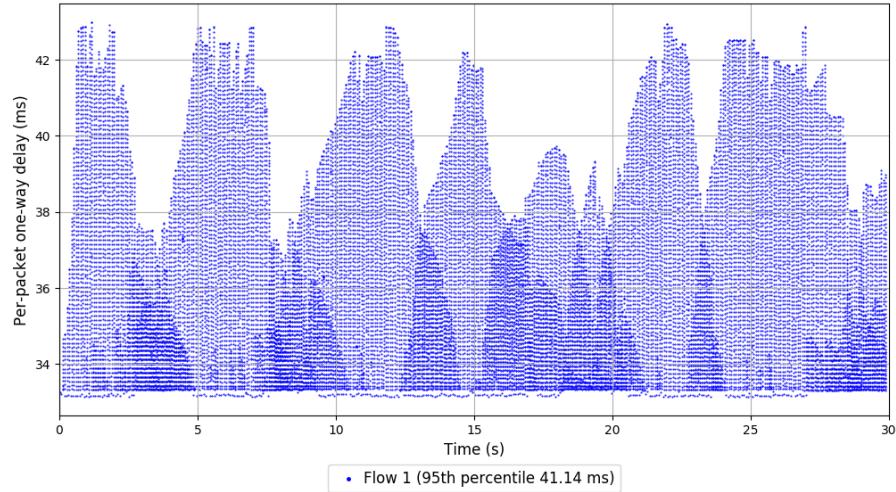
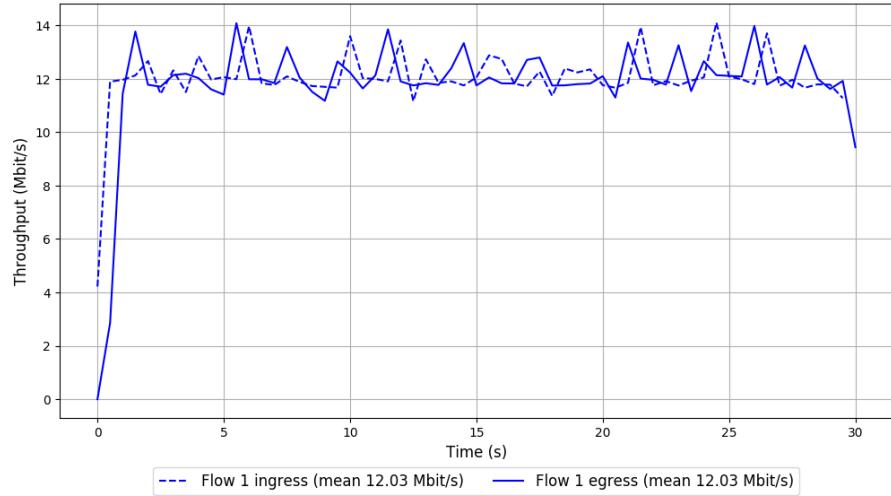


Run 4: Statistics of Sprout

```
Start at: 2019-03-27 08:04:42
End at: 2019-03-27 08:05:12
Local clock offset: 0.389 ms
Remote clock offset: 2.477 ms

# Below is generated by plot.py at 2019-03-27 08:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 41.142 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 41.142 ms
Loss rate: 0.27%
```

Run 4: Report of Sprout — Data Link

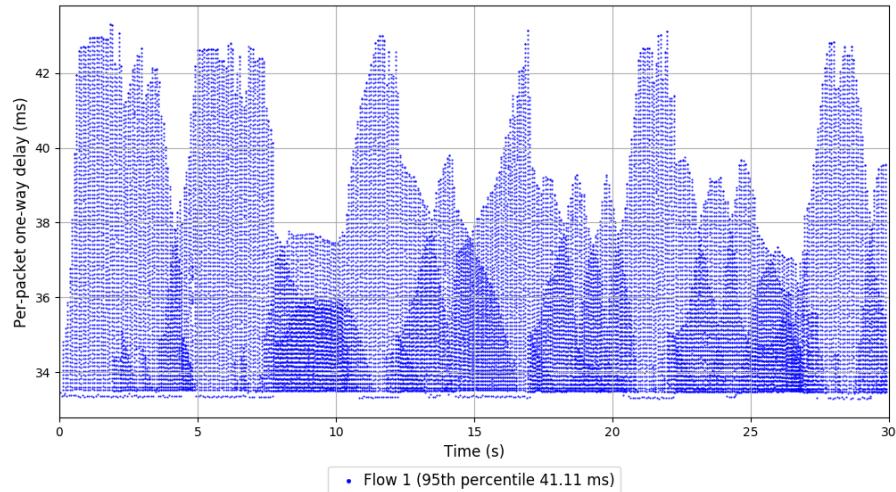
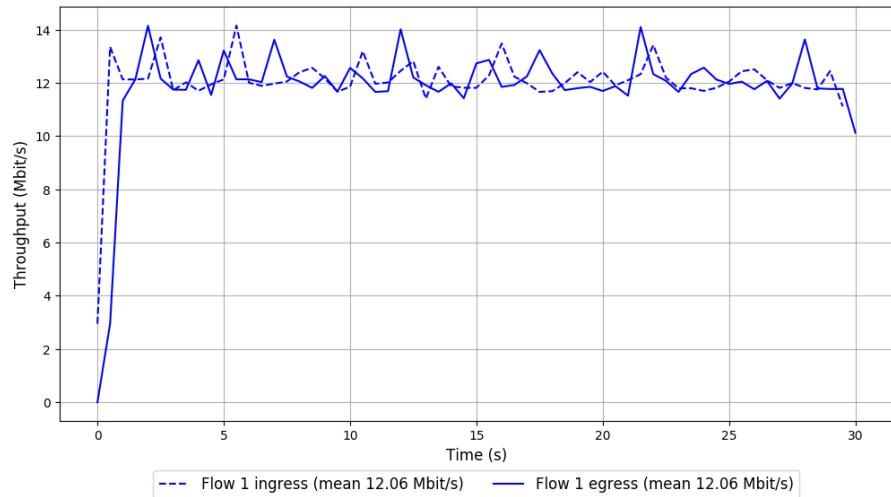


Run 5: Statistics of Sprout

```
Start at: 2019-03-27 08:29:13
End at: 2019-03-27 08:29:43
Local clock offset: 3.077 ms
Remote clock offset: 1.761 ms

# Below is generated by plot.py at 2019-03-27 08:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 41.110 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 41.110 ms
Loss rate: 0.23%
```

Run 5: Report of Sprout — Data Link

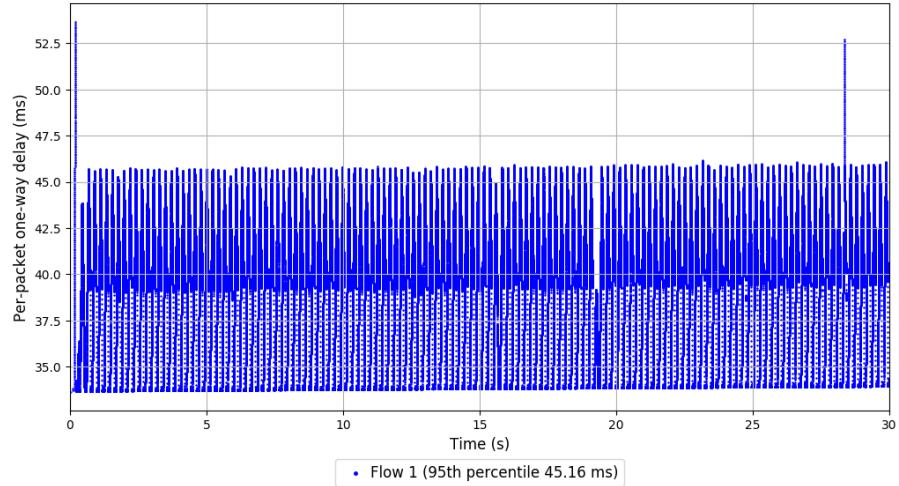
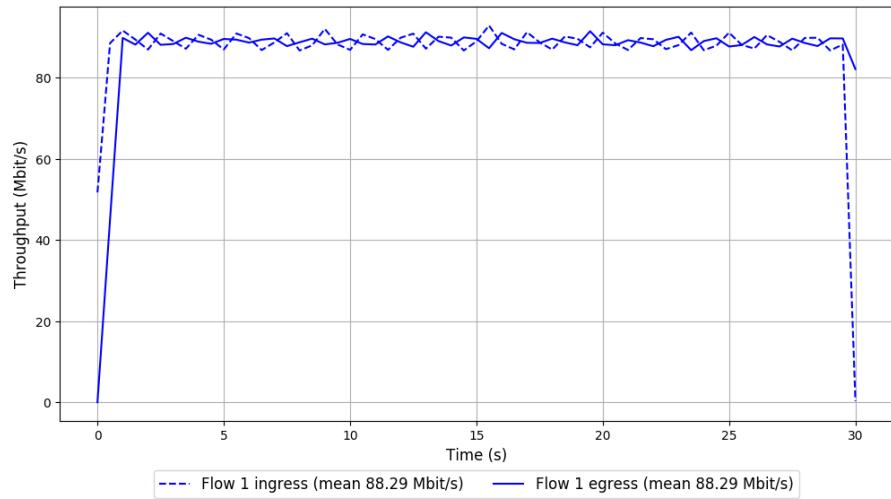


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-27 06:46:15
End at: 2019-03-27 06:46:45
Local clock offset: 4.692 ms
Remote clock offset: 1.472 ms

# Below is generated by plot.py at 2019-03-27 08:47:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.29 Mbit/s
95th percentile per-packet one-way delay: 45.155 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 88.29 Mbit/s
95th percentile per-packet one-way delay: 45.155 ms
Loss rate: 0.22%
```

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

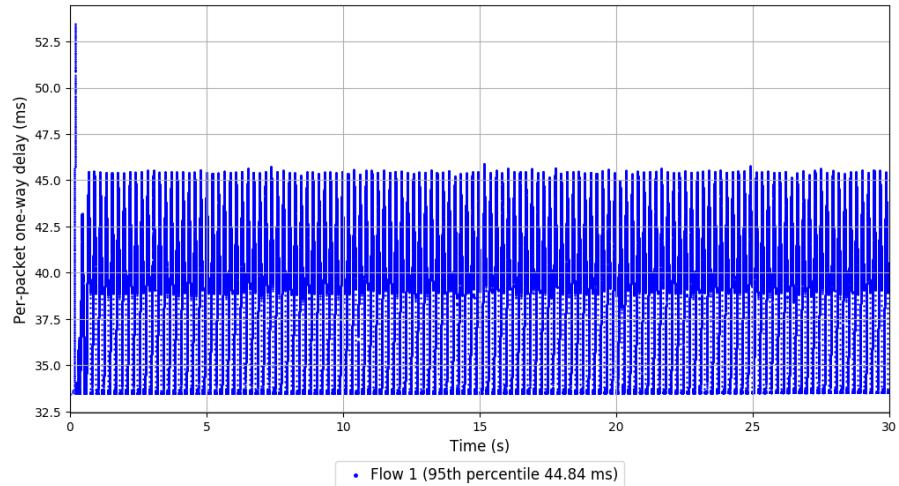
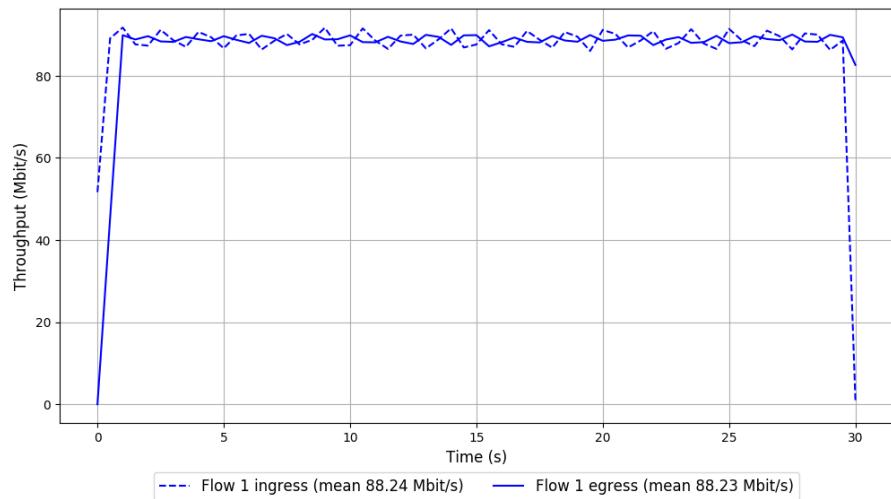


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-27 07:10:49
End at: 2019-03-27 07:11:19
Local clock offset: 0.448 ms
Remote clock offset: 2.544 ms

# Below is generated by plot.py at 2019-03-27 08:47:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.23 Mbit/s
95th percentile per-packet one-way delay: 44.840 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 88.23 Mbit/s
95th percentile per-packet one-way delay: 44.840 ms
Loss rate: 0.22%
```

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

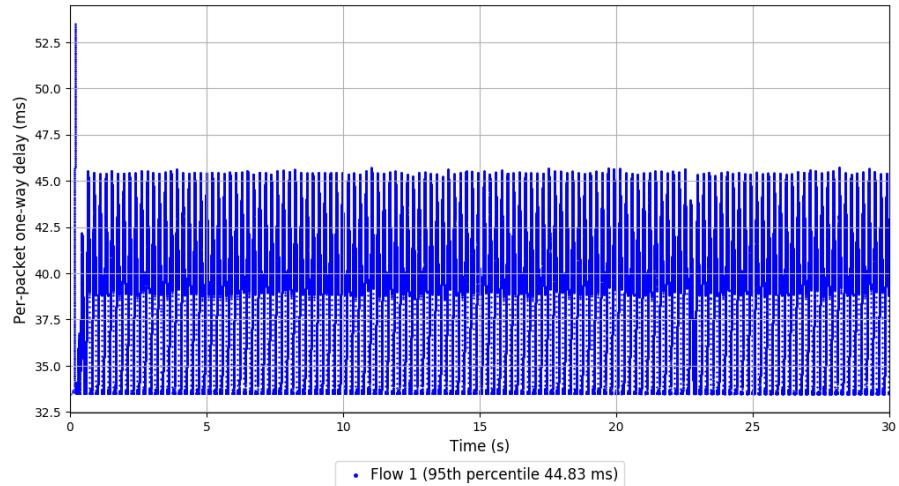
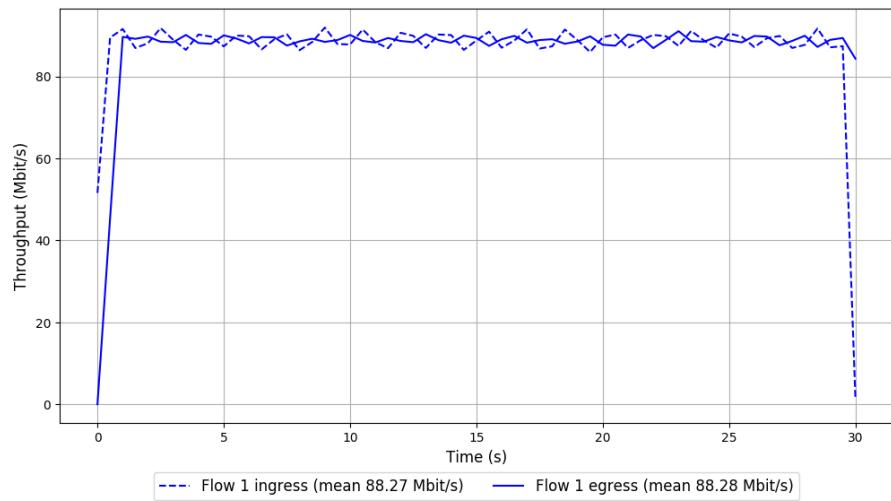


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-27 07:35:18
End at: 2019-03-27 07:35:48
Local clock offset: 0.209 ms
Remote clock offset: 3.373 ms

# Below is generated by plot.py at 2019-03-27 08:47:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 44.834 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 44.834 ms
Loss rate: 0.20%
```

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

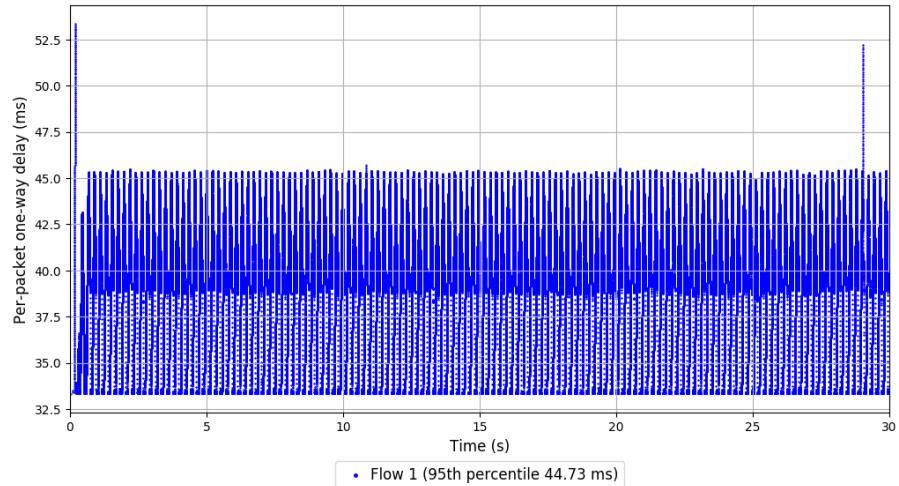
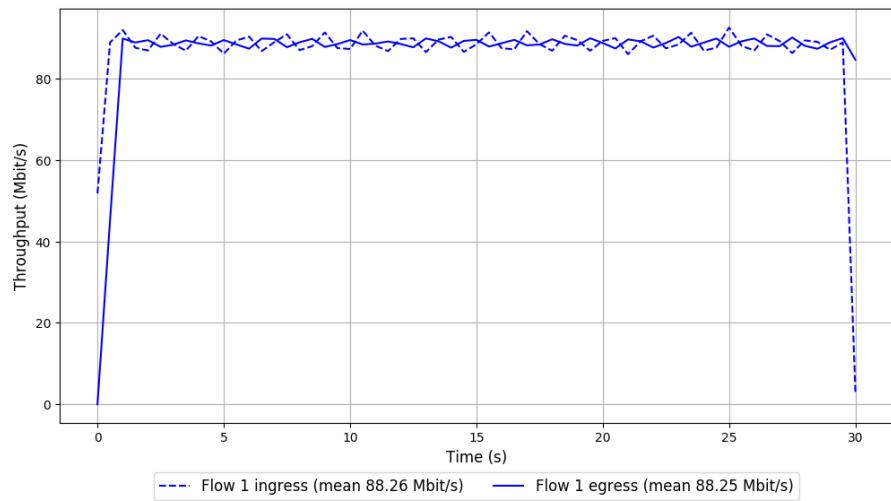


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-27 07:59:58
End at: 2019-03-27 08:00:28
Local clock offset: 0.355 ms
Remote clock offset: 2.587 ms

# Below is generated by plot.py at 2019-03-27 08:47:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.25 Mbit/s
95th percentile per-packet one-way delay: 44.725 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 88.25 Mbit/s
95th percentile per-packet one-way delay: 44.725 ms
Loss rate: 0.23%
```

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

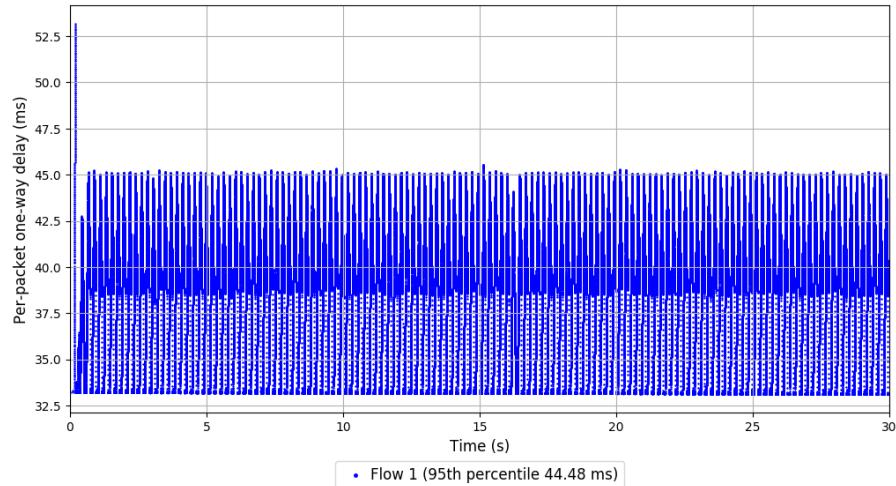
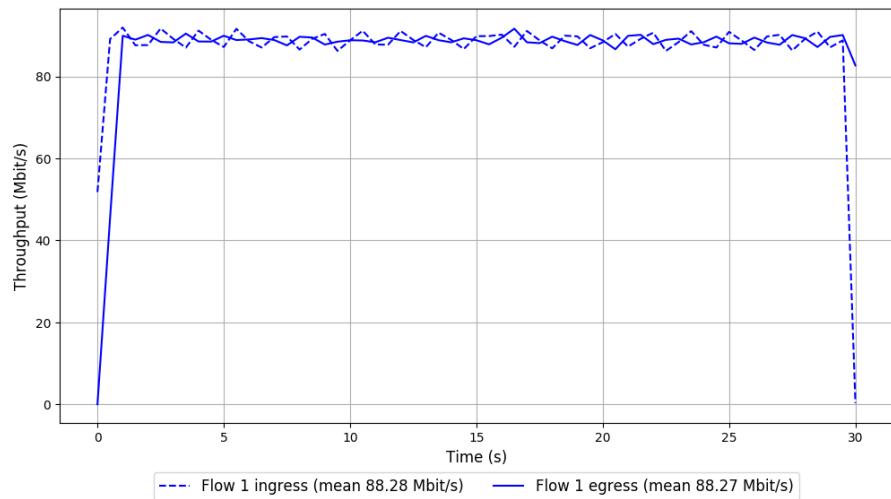


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-27 08:24:29
End at: 2019-03-27 08:24:59
Local clock offset: 2.442 ms
Remote clock offset: 2.075 ms

# Below is generated by plot.py at 2019-03-27 08:47:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.27 Mbit/s
95th percentile per-packet one-way delay: 44.478 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 88.27 Mbit/s
95th percentile per-packet one-way delay: 44.478 ms
Loss rate: 0.22%
```

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

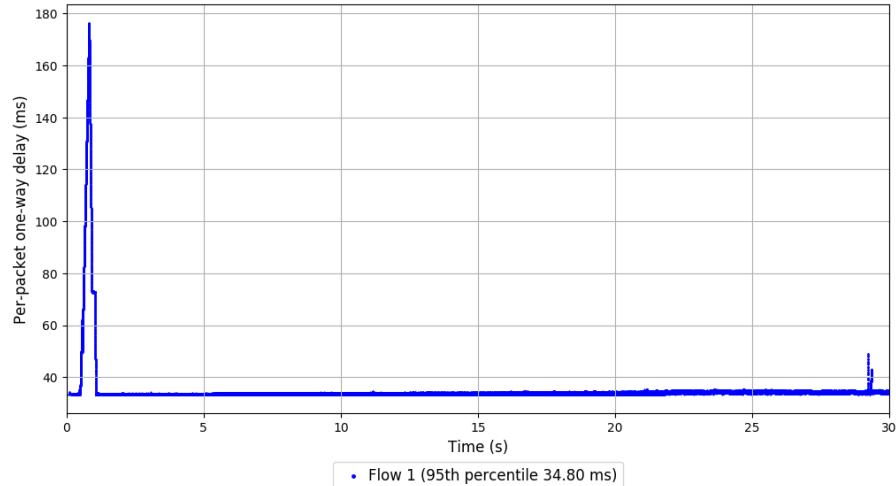
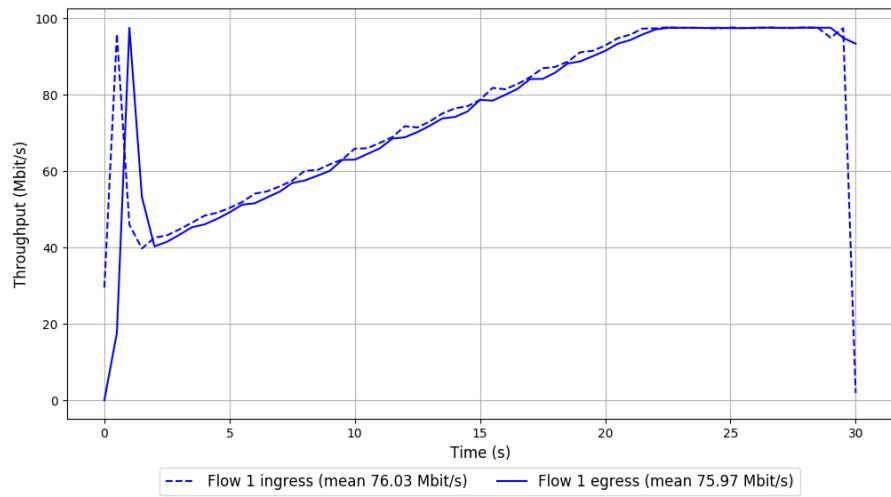


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-27 06:42:43
End at: 2019-03-27 06:43:14
Local clock offset: 4.612 ms
Remote clock offset: 1.276 ms

# Below is generated by plot.py at 2019-03-27 08:47:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.97 Mbit/s
95th percentile per-packet one-way delay: 34.802 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 75.97 Mbit/s
95th percentile per-packet one-way delay: 34.802 ms
Loss rate: 0.28%
```

Run 1: Report of TCP Vegas — Data Link

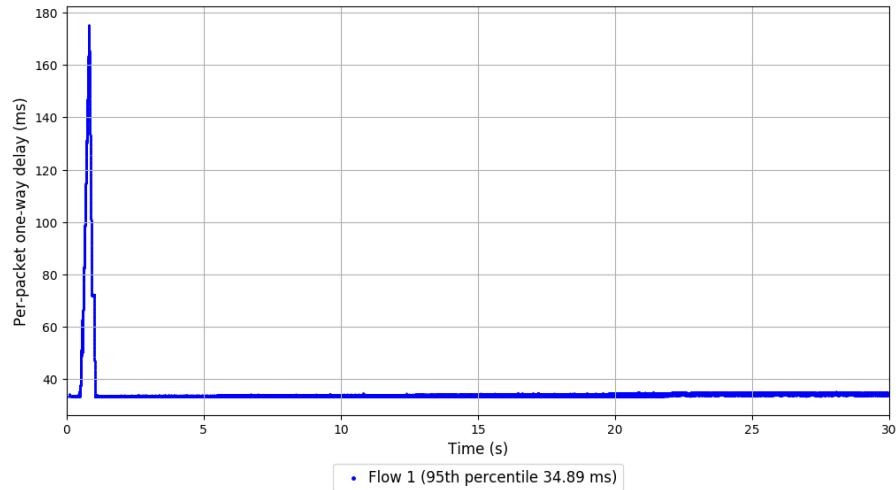
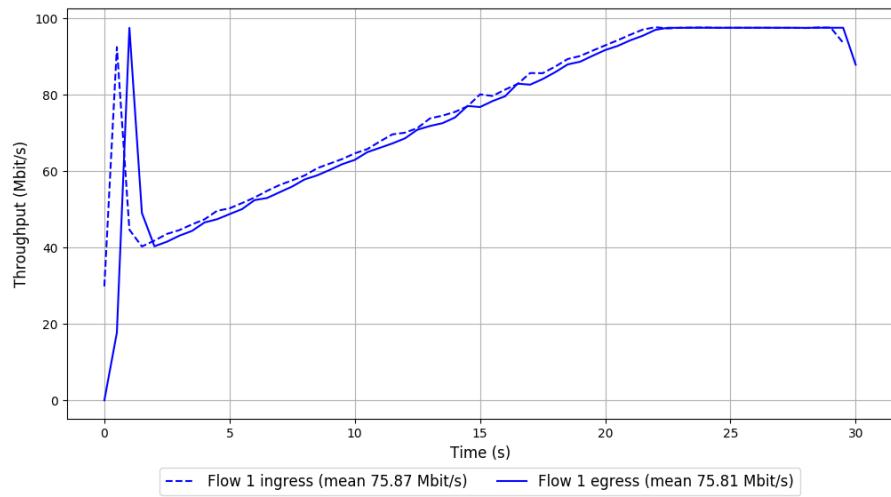


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-27 07:07:19
End at: 2019-03-27 07:07:49
Local clock offset: 0.585 ms
Remote clock offset: 2.458 ms

# Below is generated by plot.py at 2019-03-27 08:47:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 34.890 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 34.890 ms
Loss rate: 0.28%
```

Run 2: Report of TCP Vegas — Data Link

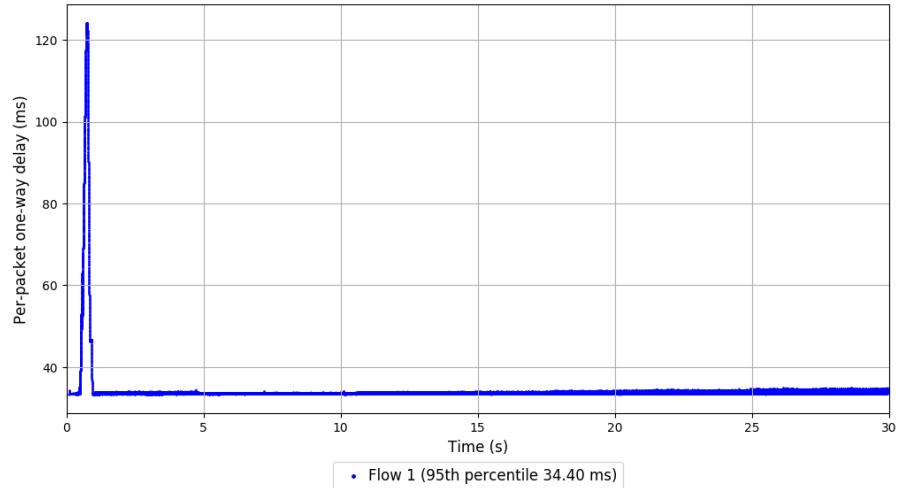
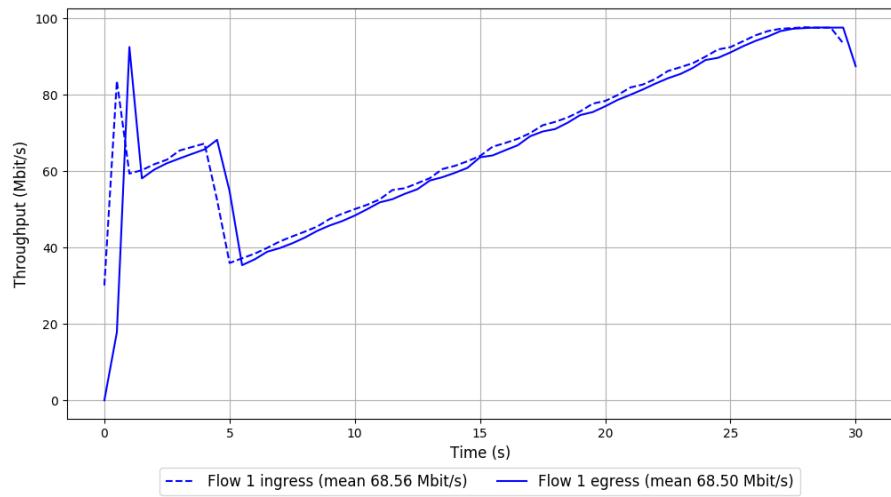


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-27 07:31:49
End at: 2019-03-27 07:32:19
Local clock offset: 0.21 ms
Remote clock offset: 3.427 ms

# Below is generated by plot.py at 2019-03-27 08:47:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.50 Mbit/s
95th percentile per-packet one-way delay: 34.397 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 68.50 Mbit/s
95th percentile per-packet one-way delay: 34.397 ms
Loss rate: 0.31%
```

Run 3: Report of TCP Vegas — Data Link

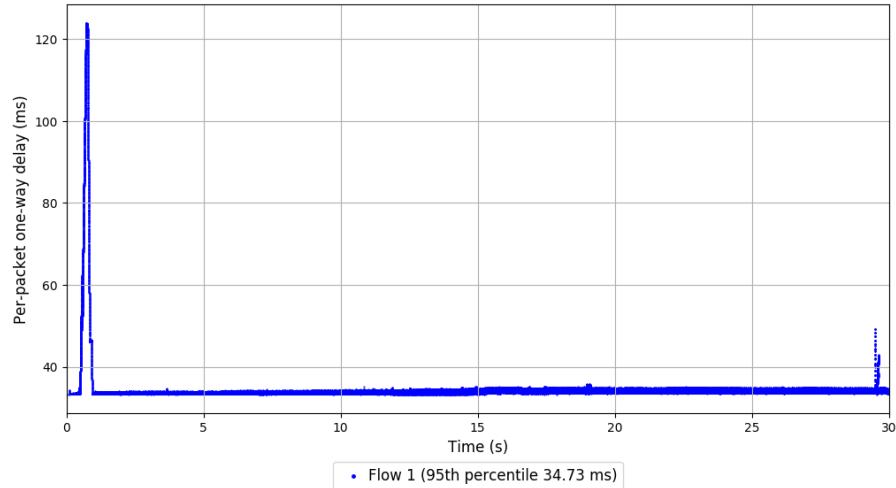
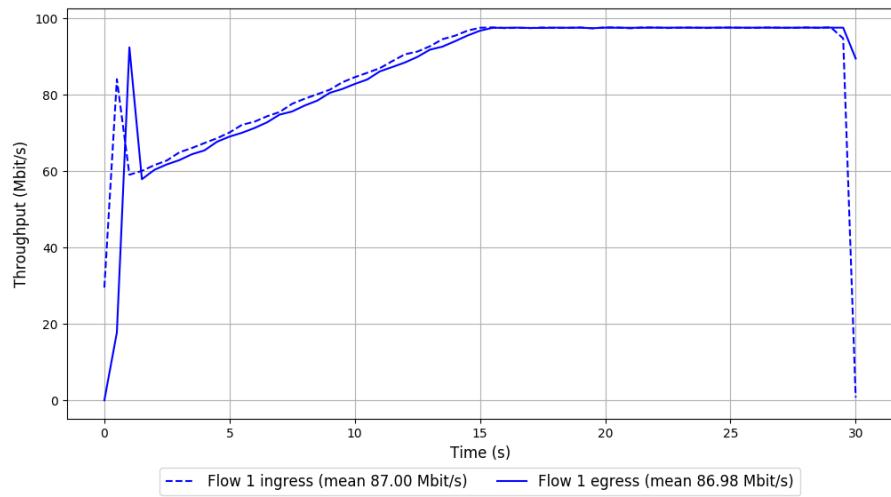


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-27 07:56:28
End at: 2019-03-27 07:56:58
Local clock offset: 0.347 ms
Remote clock offset: 2.707 ms

# Below is generated by plot.py at 2019-03-27 08:47:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.98 Mbit/s
95th percentile per-packet one-way delay: 34.733 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 86.98 Mbit/s
95th percentile per-packet one-way delay: 34.733 ms
Loss rate: 0.25%
```

Run 4: Report of TCP Vegas — Data Link

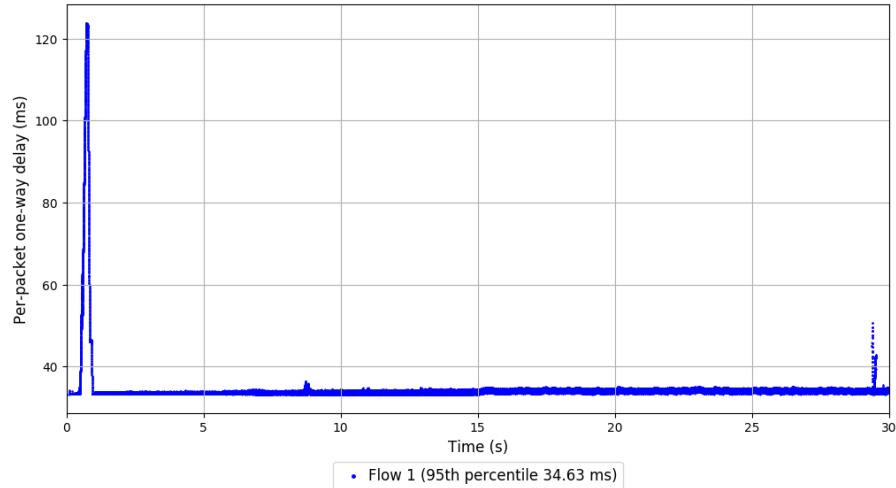
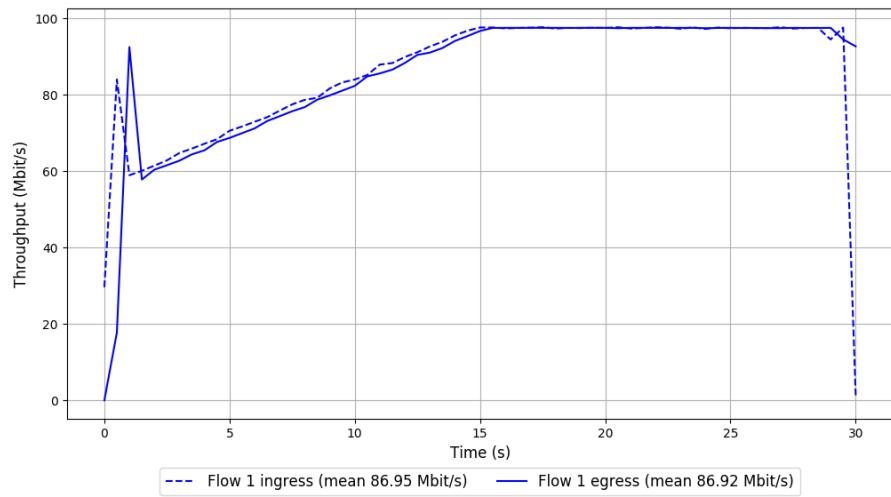


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-27 08:20:58
End at: 2019-03-27 08:21:28
Local clock offset: 1.789 ms
Remote clock offset: 2.072 ms

# Below is generated by plot.py at 2019-03-27 08:48:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.92 Mbit/s
95th percentile per-packet one-way delay: 34.632 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 86.92 Mbit/s
95th percentile per-packet one-way delay: 34.632 ms
Loss rate: 0.25%
```

Run 5: Report of TCP Vegas — Data Link

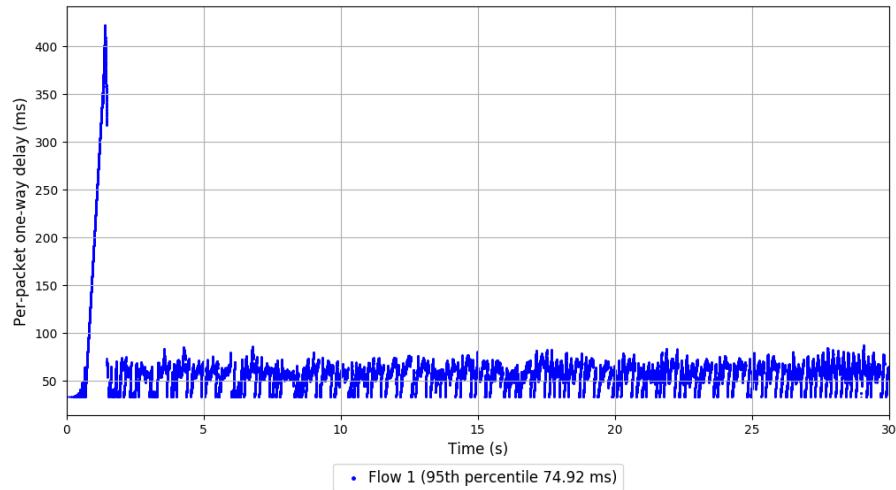
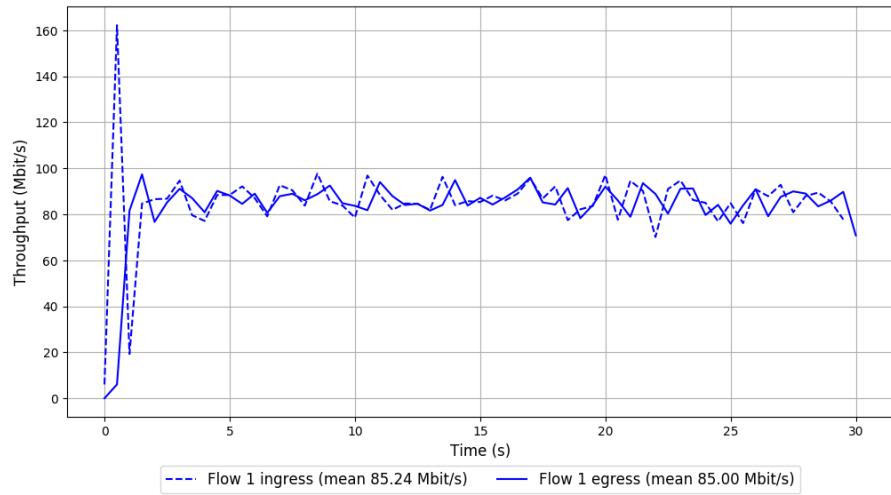


Run 1: Statistics of Verus

```
Start at: 2019-03-27 06:33:24
End at: 2019-03-27 06:33:54
Local clock offset: 3.903 ms
Remote clock offset: 0.75 ms

# Below is generated by plot.py at 2019-03-27 08:48:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.00 Mbit/s
95th percentile per-packet one-way delay: 74.924 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 85.00 Mbit/s
95th percentile per-packet one-way delay: 74.924 ms
Loss rate: 0.48%
```

Run 1: Report of Verus — Data Link

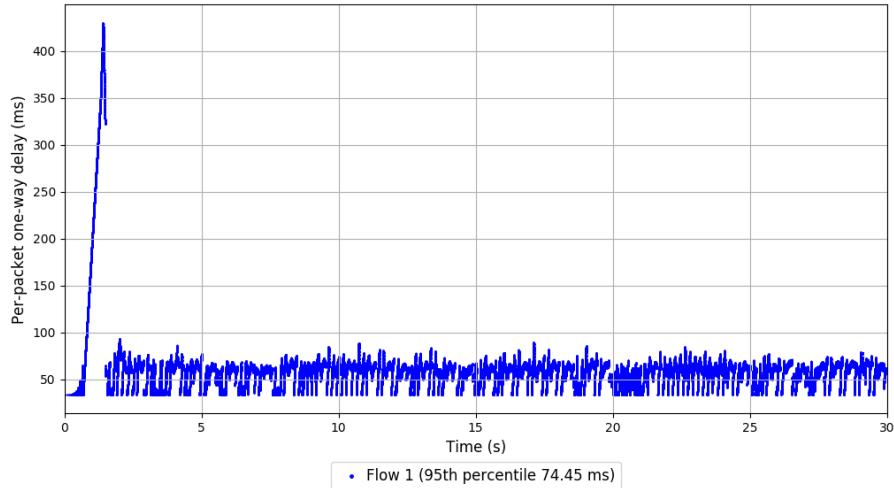
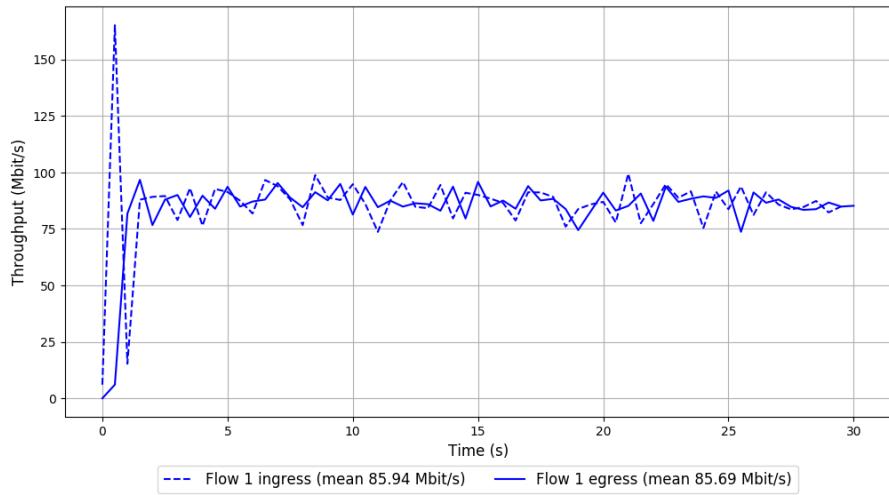


Run 2: Statistics of Verus

```
Start at: 2019-03-27 06:58:02
End at: 2019-03-27 06:58:32
Local clock offset: 1.357 ms
Remote clock offset: 2.061 ms

# Below is generated by plot.py at 2019-03-27 08:48:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.69 Mbit/s
95th percentile per-packet one-way delay: 74.446 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 85.69 Mbit/s
95th percentile per-packet one-way delay: 74.446 ms
Loss rate: 0.35%
```

Run 2: Report of Verus — Data Link

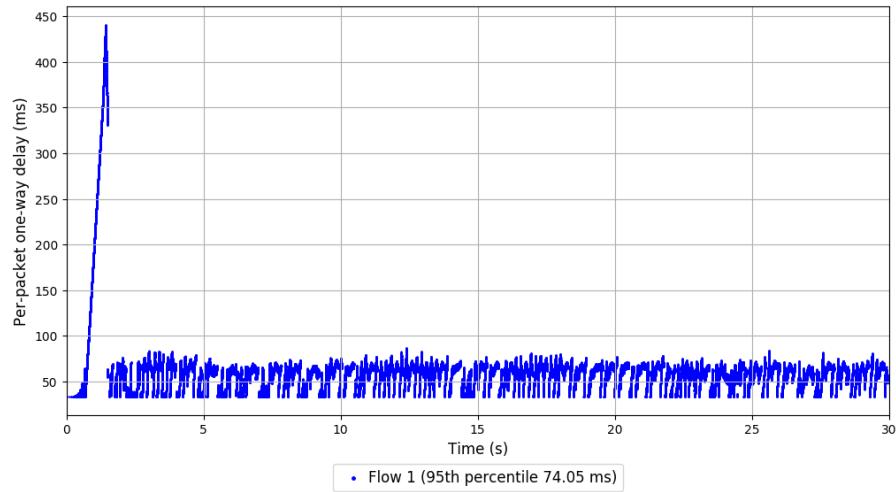
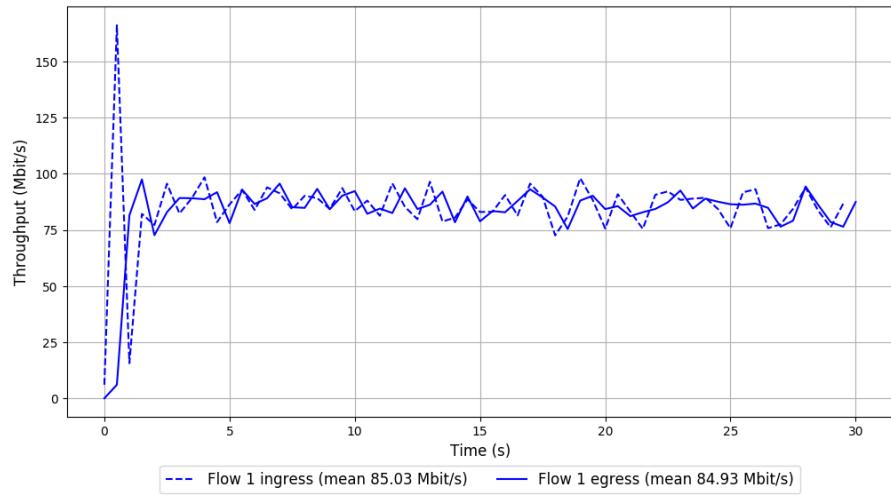


Run 3: Statistics of Verus

```
Start at: 2019-03-27 07:22:31
End at: 2019-03-27 07:23:01
Local clock offset: 0.256 ms
Remote clock offset: 3.015 ms

# Below is generated by plot.py at 2019-03-27 08:48:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.93 Mbit/s
95th percentile per-packet one-way delay: 74.047 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 84.93 Mbit/s
95th percentile per-packet one-way delay: 74.047 ms
Loss rate: 0.35%
```

Run 3: Report of Verus — Data Link

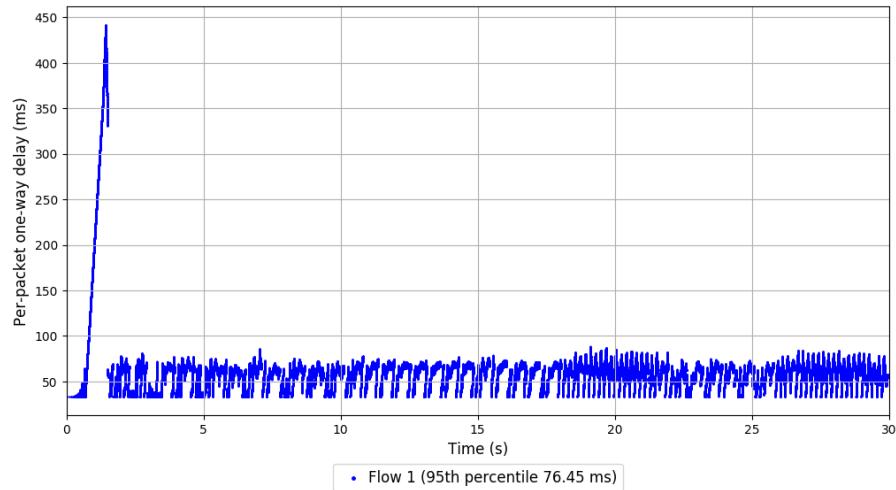
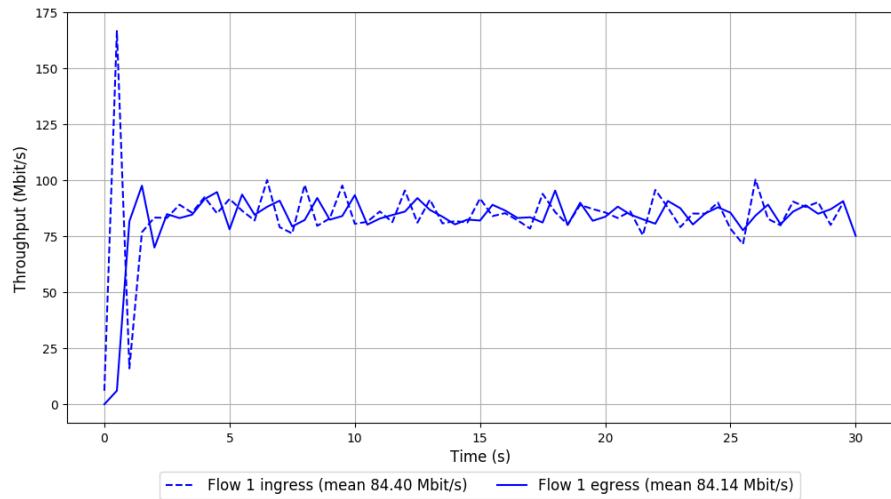


Run 4: Statistics of Verus

```
Start at: 2019-03-27 07:47:01
End at: 2019-03-27 07:47:31
Local clock offset: 0.259 ms
Remote clock offset: 3.112 ms

# Below is generated by plot.py at 2019-03-27 08:48:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.14 Mbit/s
95th percentile per-packet one-way delay: 76.452 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 84.14 Mbit/s
95th percentile per-packet one-way delay: 76.452 ms
Loss rate: 0.52%
```

Run 4: Report of Verus — Data Link

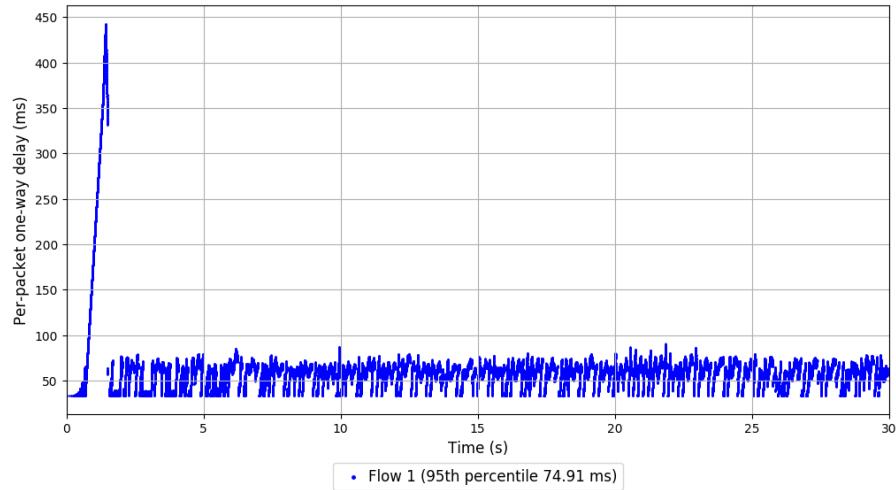
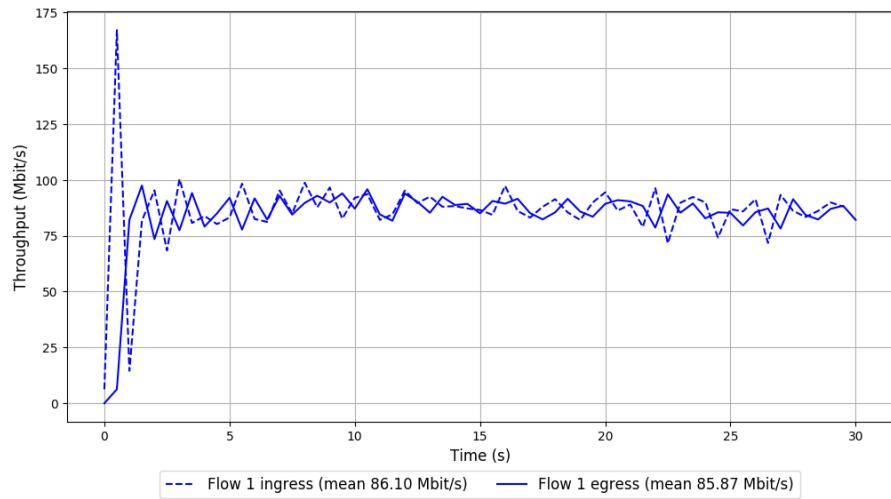


Run 5: Statistics of Verus

```
Start at: 2019-03-27 08:11:40
End at: 2019-03-27 08:12:10
Local clock offset: 0.412 ms
Remote clock offset: 2.297 ms

# Below is generated by plot.py at 2019-03-27 08:48:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.87 Mbit/s
95th percentile per-packet one-way delay: 74.912 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 85.87 Mbit/s
95th percentile per-packet one-way delay: 74.912 ms
Loss rate: 0.47%
```

Run 5: Report of Verus — Data Link

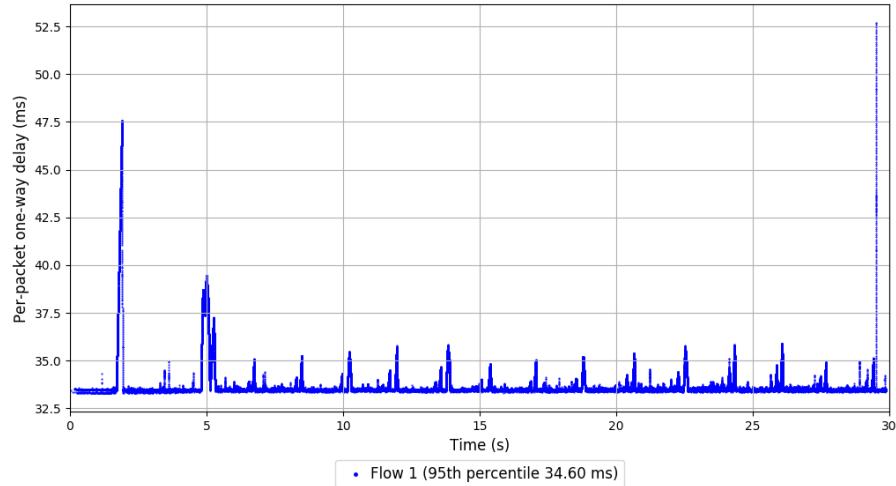
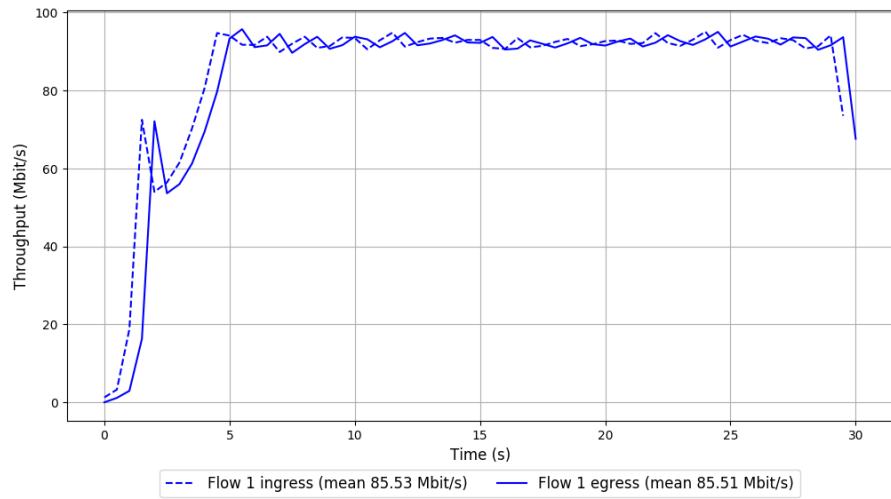


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-03-27 06:39:12
End at: 2019-03-27 06:39:42
Local clock offset: 4.371 ms
Remote clock offset: 1.06 ms

# Below is generated by plot.py at 2019-03-27 08:48:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.51 Mbit/s
95th percentile per-packet one-way delay: 34.601 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 85.51 Mbit/s
95th percentile per-packet one-way delay: 34.601 ms
Loss rate: 0.24%
```

Run 1: Report of PCC-Vivace — Data Link

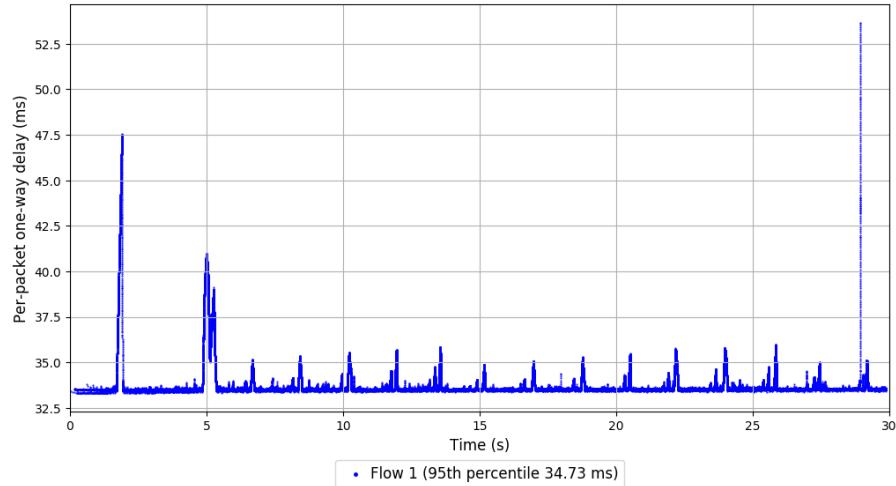
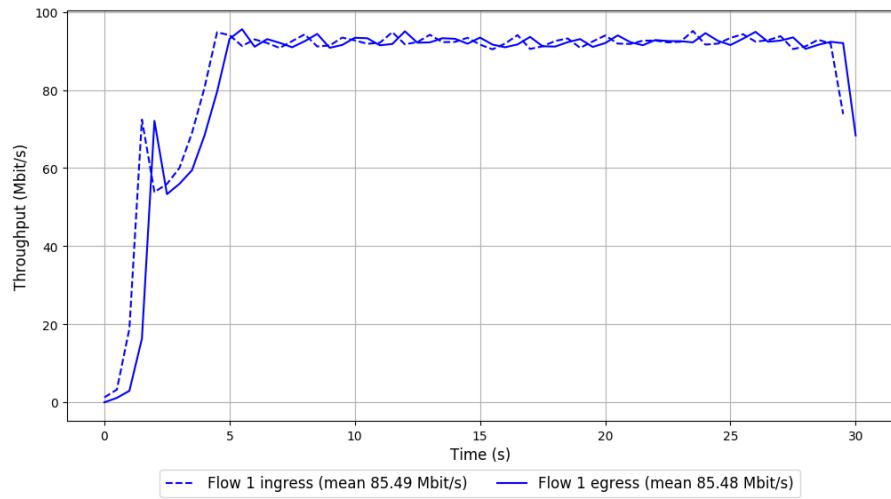


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-27 07:03:50
End at: 2019-03-27 07:04:20
Local clock offset: 0.804 ms
Remote clock offset: 2.284 ms

# Below is generated by plot.py at 2019-03-27 08:48:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.48 Mbit/s
95th percentile per-packet one-way delay: 34.733 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 85.48 Mbit/s
95th percentile per-packet one-way delay: 34.733 ms
Loss rate: 0.23%
```

Run 2: Report of PCC-Vivace — Data Link

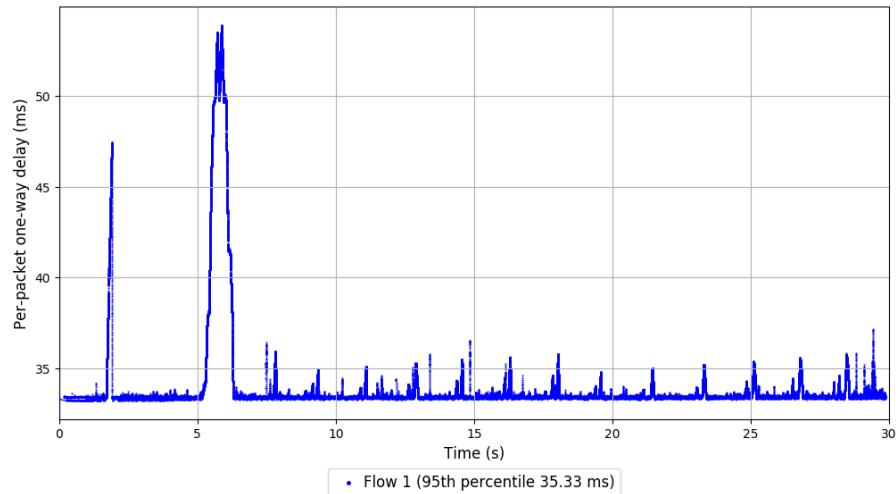
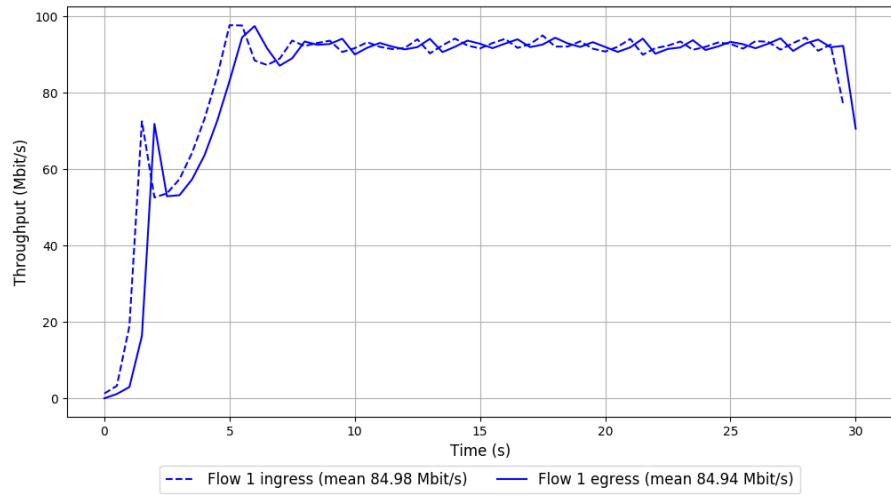


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-27 07:28:18
End at: 2019-03-27 07:28:48
Local clock offset: 0.212 ms
Remote clock offset: 3.29 ms

# Below is generated by plot.py at 2019-03-27 08:49:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.94 Mbit/s
95th percentile per-packet one-way delay: 35.330 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 84.94 Mbit/s
95th percentile per-packet one-way delay: 35.330 ms
Loss rate: 0.26%
```

Run 3: Report of PCC-Vivace — Data Link

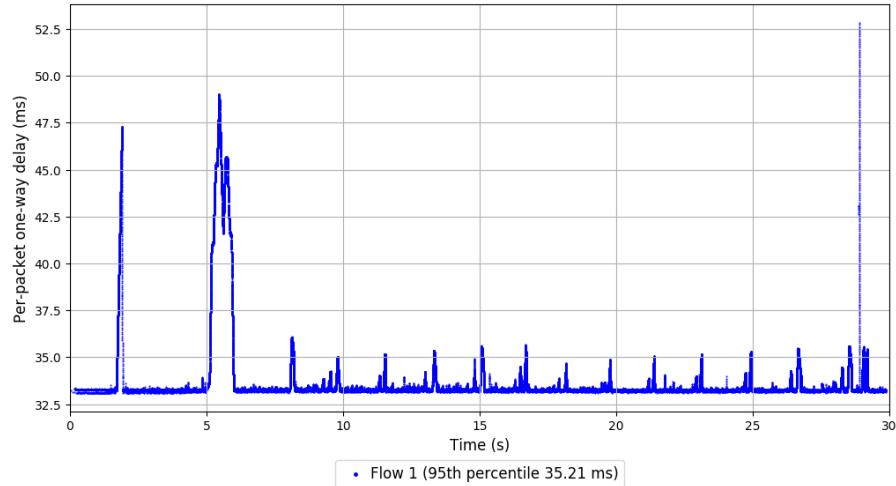
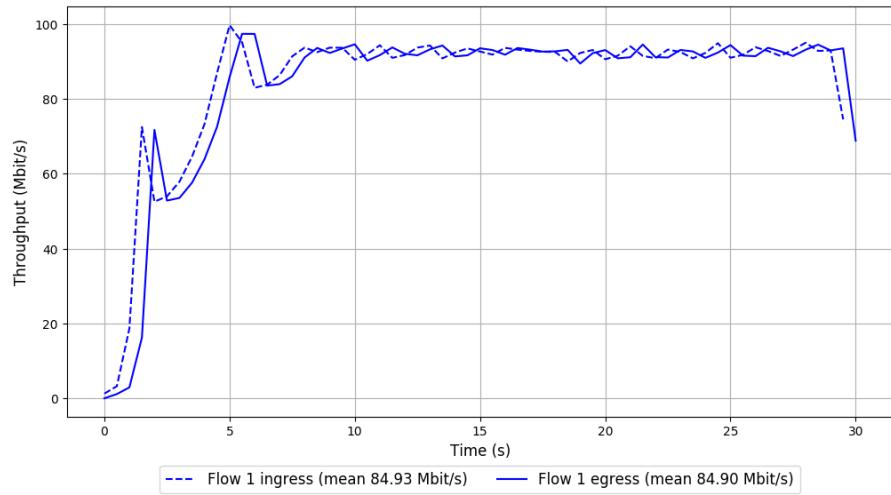


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-27 07:52:48
End at: 2019-03-27 07:53:18
Local clock offset: 0.321 ms
Remote clock offset: 3.025 ms

# Below is generated by plot.py at 2019-03-27 08:49:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.90 Mbit/s
95th percentile per-packet one-way delay: 35.206 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 84.90 Mbit/s
95th percentile per-packet one-way delay: 35.206 ms
Loss rate: 0.24%
```

Run 4: Report of PCC-Vivace — Data Link

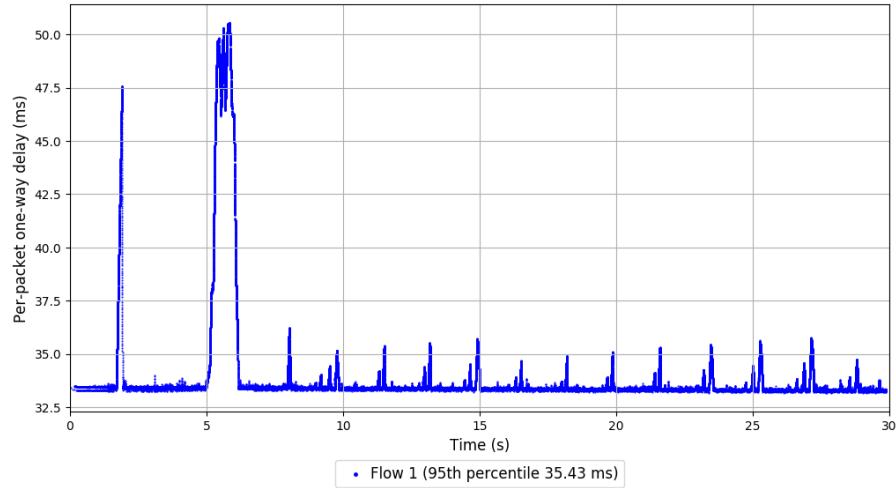
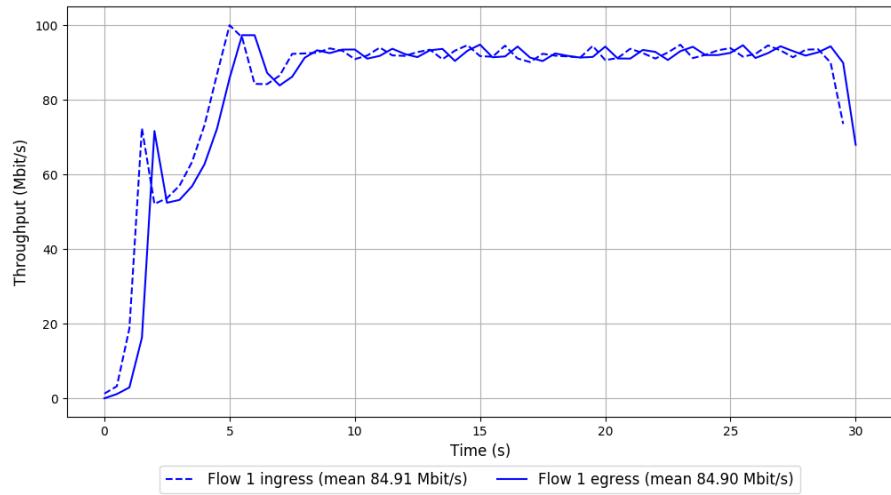


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-27 08:17:27
End at: 2019-03-27 08:17:57
Local clock offset: 0.938 ms
Remote clock offset: 1.946 ms

# Below is generated by plot.py at 2019-03-27 08:49:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.90 Mbit/s
95th percentile per-packet one-way delay: 35.429 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 84.90 Mbit/s
95th percentile per-packet one-way delay: 35.429 ms
Loss rate: 0.23%
```

Run 5: Report of PCC-Vivace — Data Link

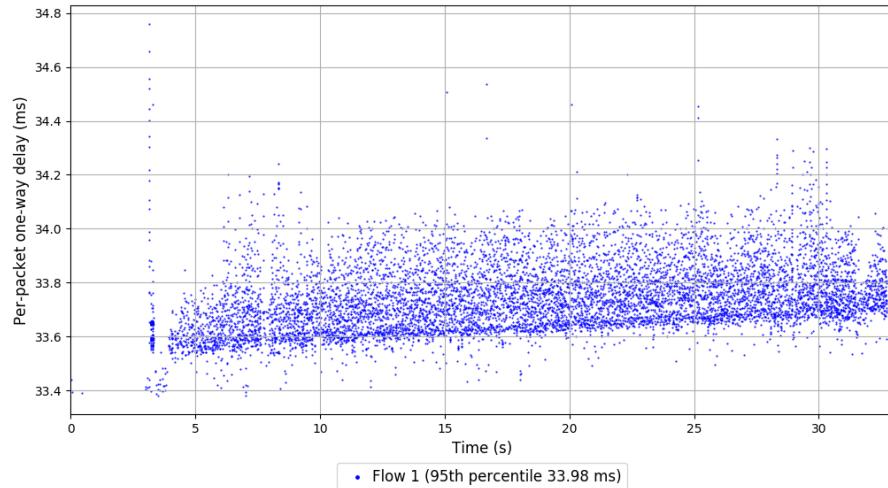
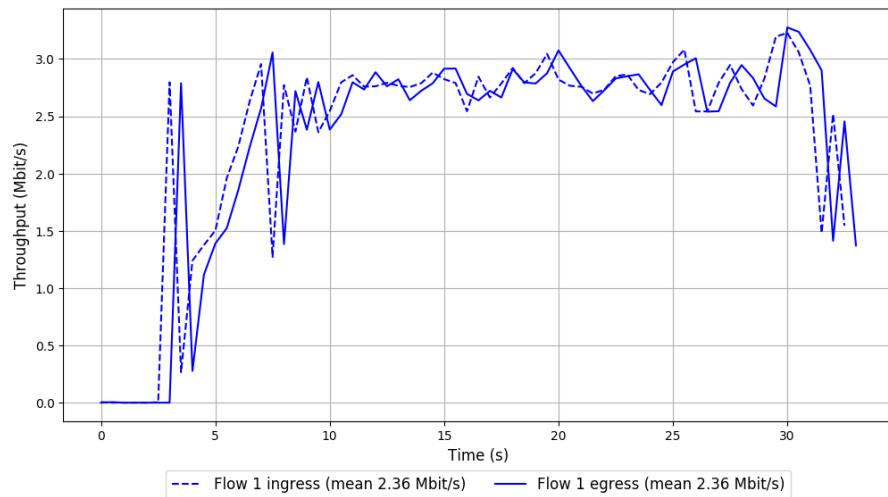


```
Run 1: Statistics of WebRTC media

Start at: 2019-03-27 06:53:20
End at: 2019-03-27 06:53:50
Local clock offset: 2.152 ms
Remote clock offset: 1.914 ms

# Below is generated by plot.py at 2019-03-27 08:49:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 33.980 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 33.980 ms
Loss rate: 0.24%
```

Run 1: Report of WebRTC media — Data Link

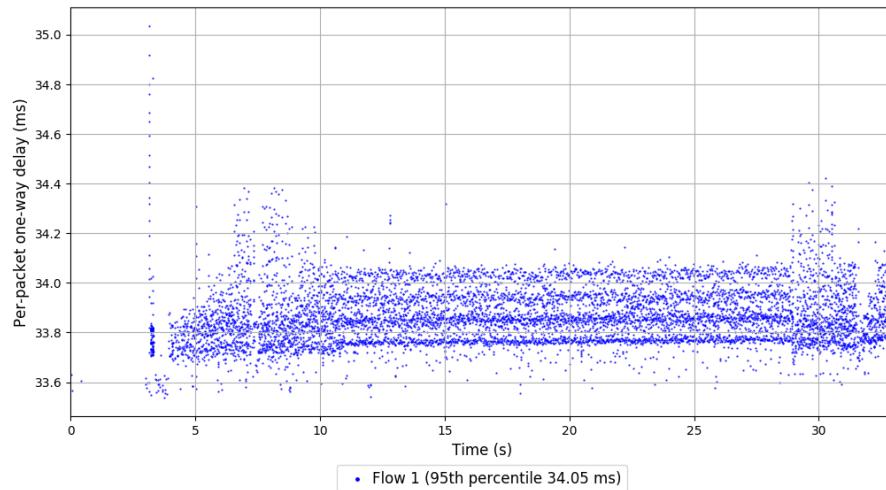
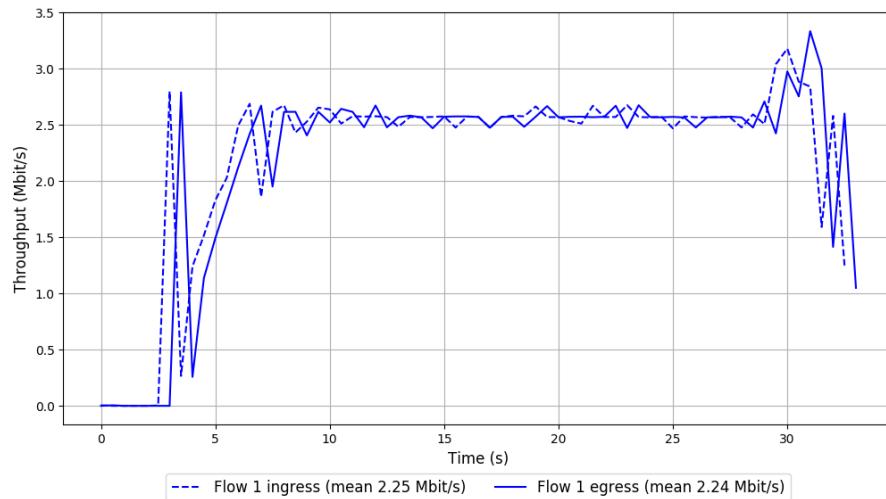


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-27 07:17:51
End at: 2019-03-27 07:18:21
Local clock offset: 0.294 ms
Remote clock offset: 2.691 ms

# Below is generated by plot.py at 2019-03-27 08:49:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 34.055 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 34.055 ms
Loss rate: 0.27%
```

Run 2: Report of WebRTC media — Data Link

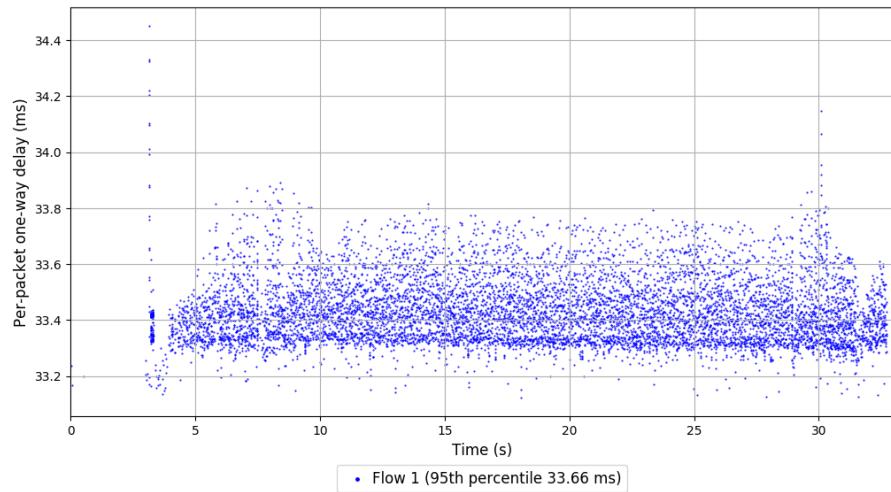
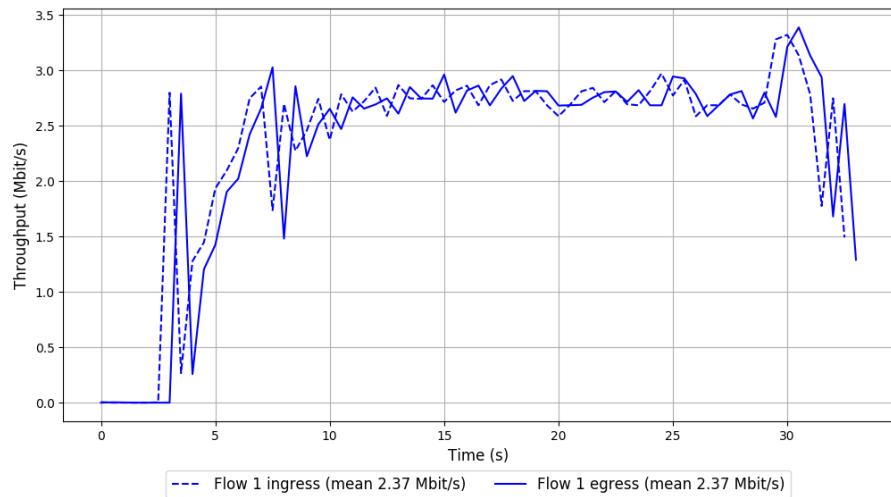


Run 3: Statistics of WebRTC media

```
Start at: 2019-03-27 07:42:21
End at: 2019-03-27 07:42:51
Local clock offset: 0.225 ms
Remote clock offset: 3.33 ms

# Below is generated by plot.py at 2019-03-27 08:49:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 33.659 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 33.659 ms
Loss rate: 0.26%
```

Run 3: Report of WebRTC media — Data Link

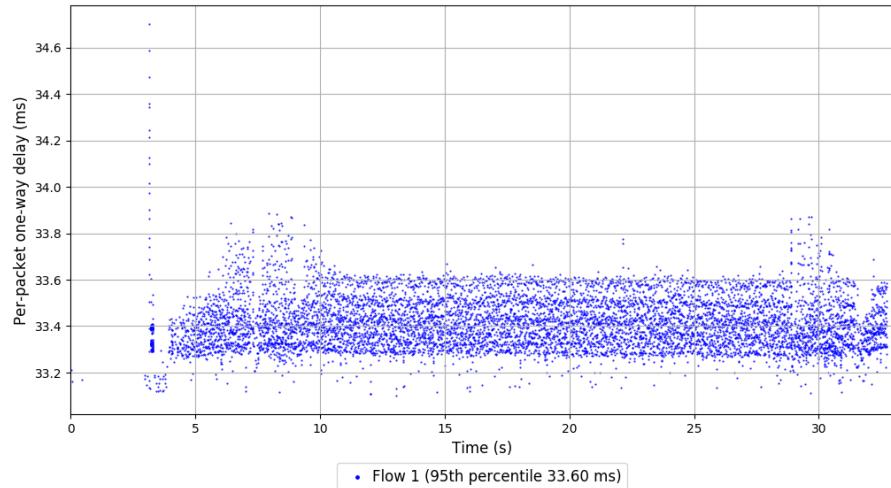
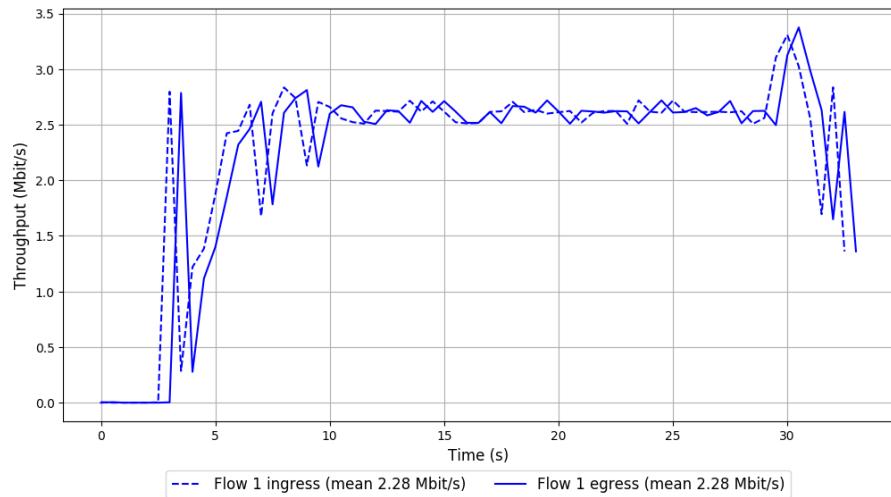


Run 4: Statistics of WebRTC media

```
Start at: 2019-03-27 08:07:01
End at: 2019-03-27 08:07:31
Local clock offset: 0.404 ms
Remote clock offset: 2.377 ms

# Below is generated by plot.py at 2019-03-27 08:49:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 33.602 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 33.602 ms
Loss rate: 0.19%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-03-27 08:31:32
End at: 2019-03-27 08:32:02
Local clock offset: 3.306 ms
Remote clock offset: 1.977 ms

# Below is generated by plot.py at 2019-03-27 08:49:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 33.567 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 33.567 ms
Loss rate: 0.26%
```

Run 5: Report of WebRTC media — Data Link

