

Pantheon Report

Generated at 2019-01-19 07:32:10 (UTC).
Data path: Brazil on p4p1 (*remote*) → AWS Brazil 1 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 `gps.ntp.br` and have been applied to correct the timestamps in logs.

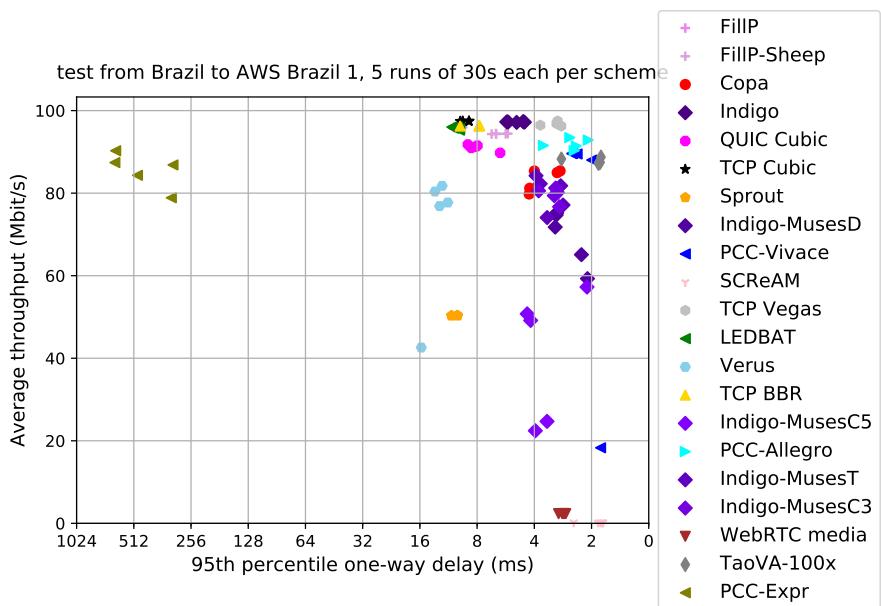
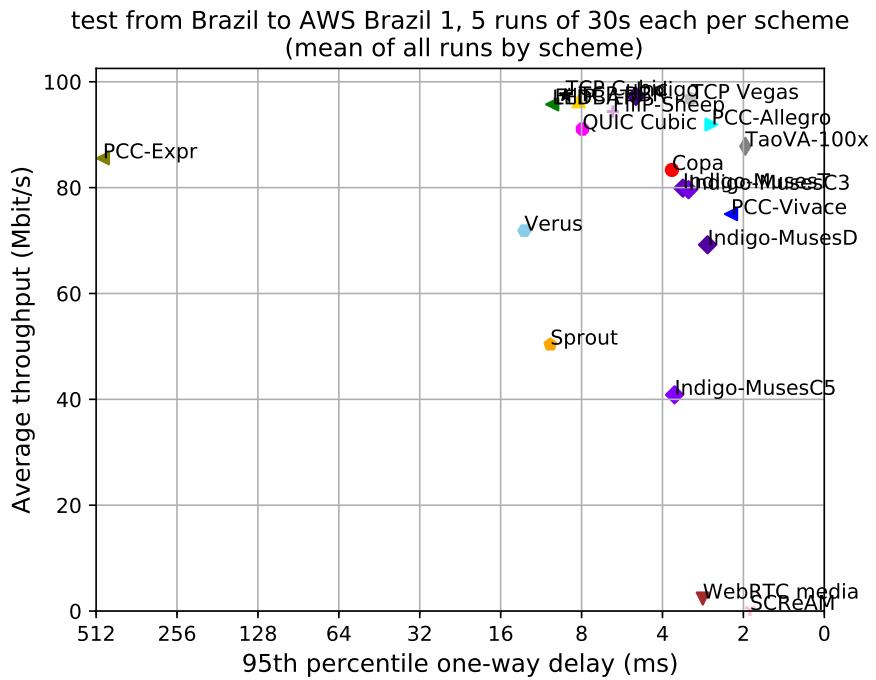
System info:

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

Git summary:

```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefe166e1afe2170
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



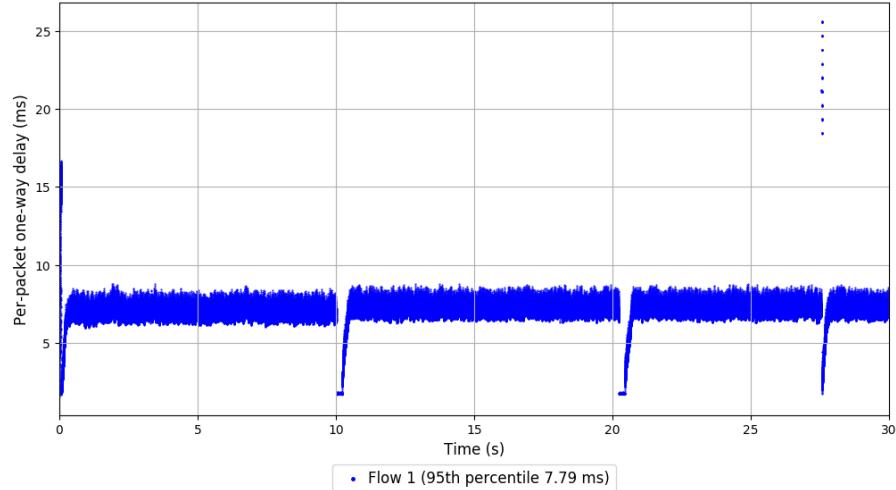
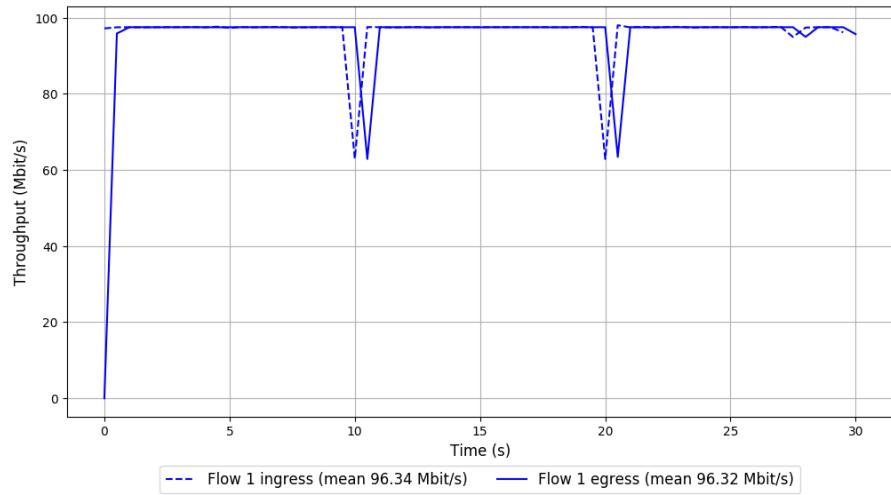
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.31	8.20	0.05
Copa	5	83.34	3.69	0.01
TCP Cubic	5	97.45	9.16	0.05
FillP	5	95.92	10.07	0.03
FillP-Sheep	5	94.38	6.12	0.03
Indigo	5	97.24	5.03	0.02
Indigo-MusesC3	5	79.61	3.20	0.02
Indigo-MusesC5	5	40.86	3.61	0.01
Indigo-MusesD	5	69.21	2.72	0.02
Indigo-MusesT	5	79.90	3.36	0.02
LEDBAT	5	95.73	10.29	0.08
PCC-Allegro	5	91.92	2.63	0.02
PCC-Expr	5	85.54	483.25	2.07
QUIC Cubic	5	91.05	7.94	0.02
SCReAM	5	0.22	1.84	0.05
Sprout	5	50.35	10.46	0.05
TaoVA-100x	5	87.81	1.95	0.02
TCP Vegas	5	96.75	3.14	0.01
Verus	5	71.87	13.06	0.09
PCC-Vivace	5	75.00	2.22	0.02
WebRTC media	5	2.36	2.83	0.02

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-19 05:32:22
End at: 2019-01-19 05:32:52
Local clock offset: -1.701 ms
Remote clock offset: 0.412 ms

# Below is generated by plot.py at 2019-01-19 07:19:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 7.791 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 7.791 ms
Loss rate: 0.03%
```

Run 1: Report of TCP BBR — Data Link

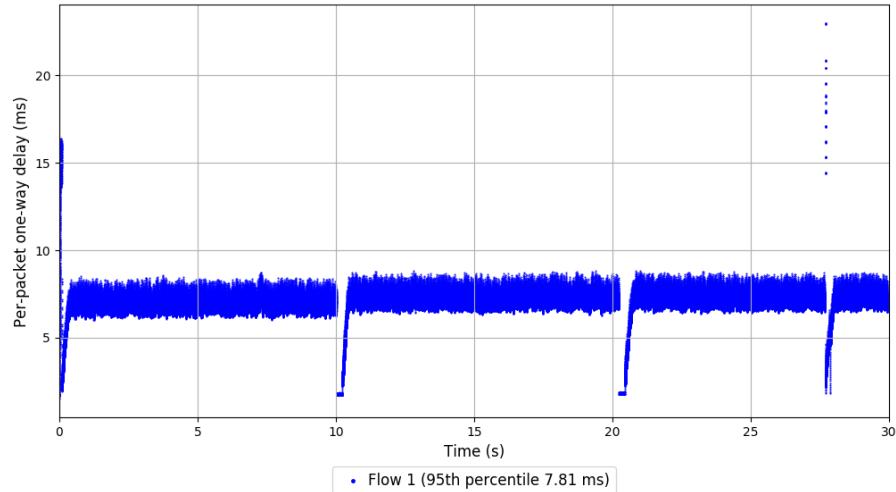
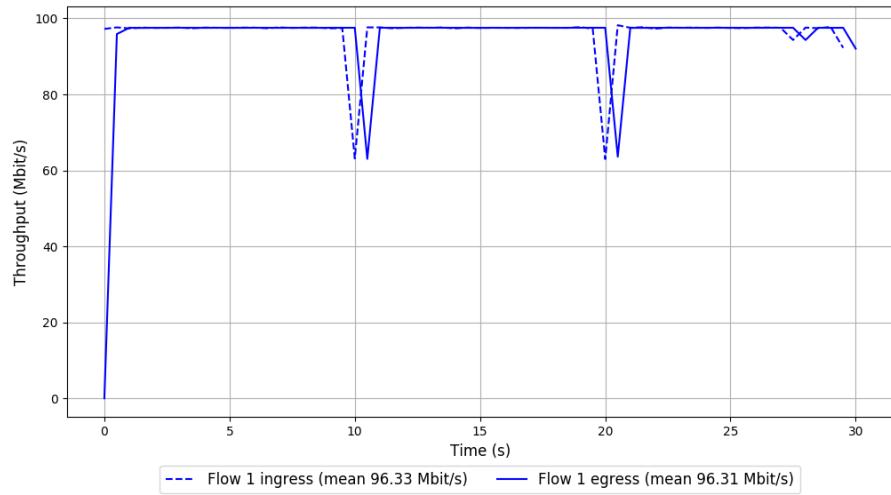


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-19 05:56:06
End at: 2019-01-19 05:56:36
Local clock offset: -5.354 ms
Remote clock offset: 0.877 ms

# Below is generated by plot.py at 2019-01-19 07:19:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 7.813 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 7.813 ms
Loss rate: 0.03%
```

Run 2: Report of TCP BBR — Data Link

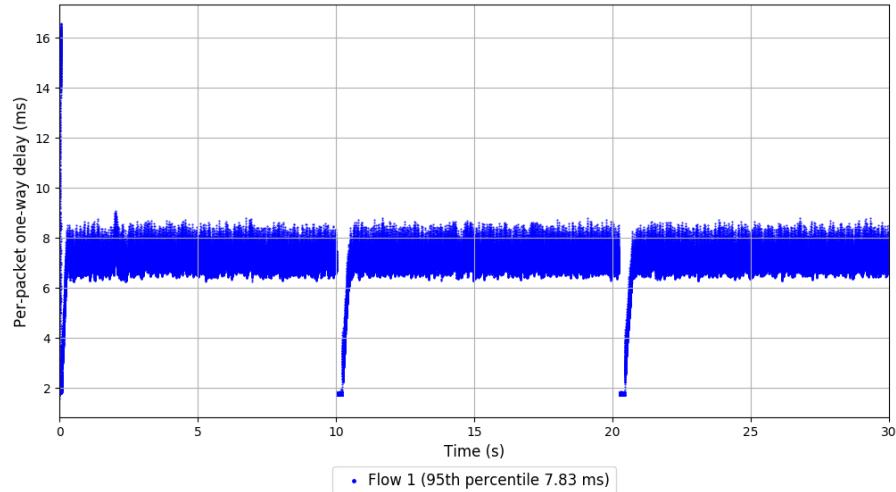
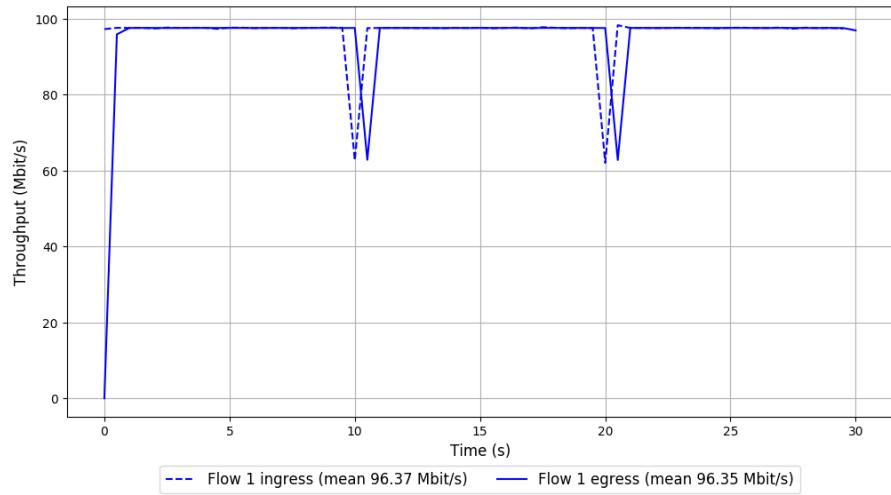


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-19 06:19:49
End at: 2019-01-19 06:20:19
Local clock offset: -8.001 ms
Remote clock offset: 0.825 ms

# Below is generated by plot.py at 2019-01-19 07:19:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 7.828 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 7.828 ms
Loss rate: 0.03%
```

Run 3: Report of TCP BBR — Data Link

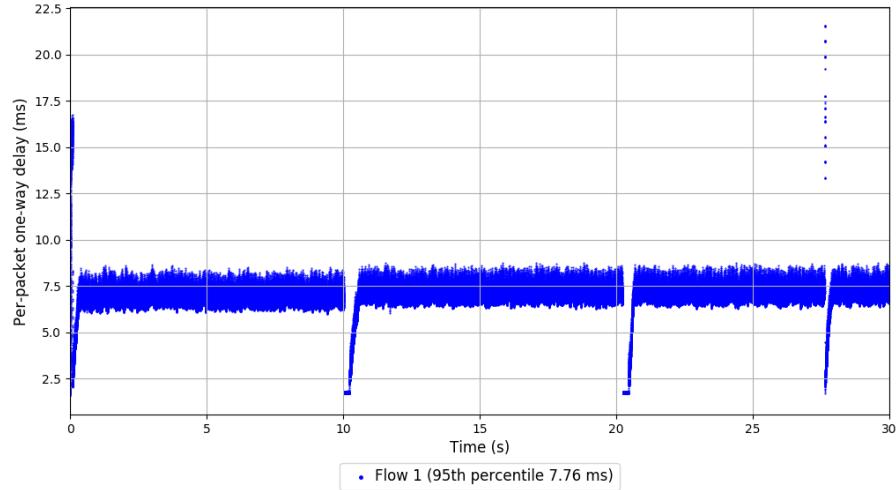
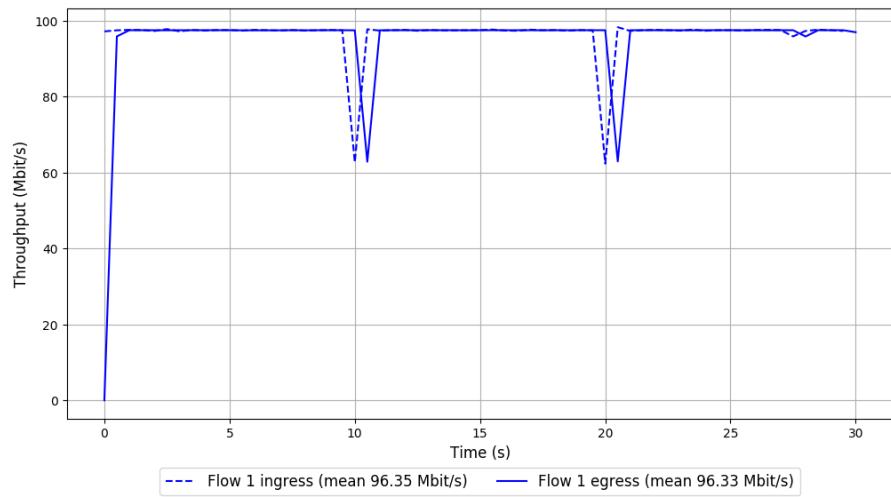


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-19 06:43:33
End at: 2019-01-19 06:44:03
Local clock offset: -8.545 ms
Remote clock offset: 1.065 ms

# Below is generated by plot.py at 2019-01-19 07:19:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 7.763 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 7.763 ms
Loss rate: 0.03%
```

Run 4: Report of TCP BBR — Data Link

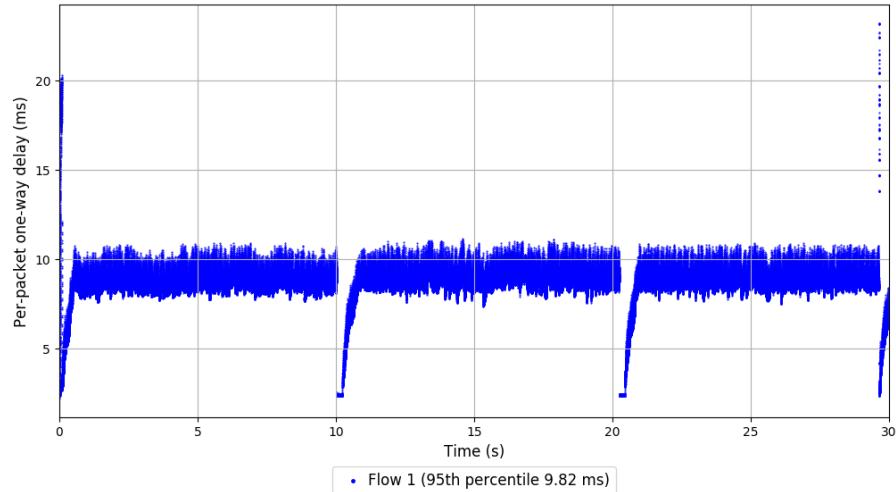
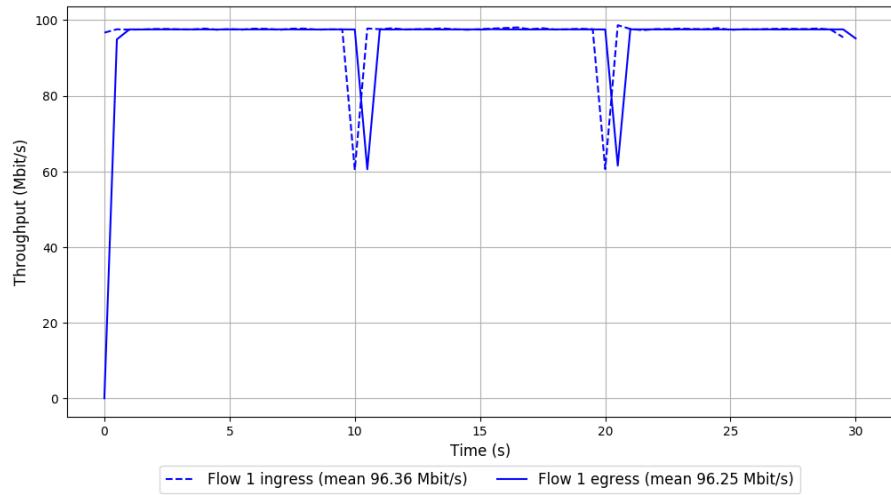


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-19 07:07:19
End at: 2019-01-19 07:07:49
Local clock offset: -7.238 ms
Remote clock offset: 1.148 ms

# Below is generated by plot.py at 2019-01-19 07:19:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 9.822 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 9.822 ms
Loss rate: 0.12%
```

Run 5: Report of TCP BBR — Data Link

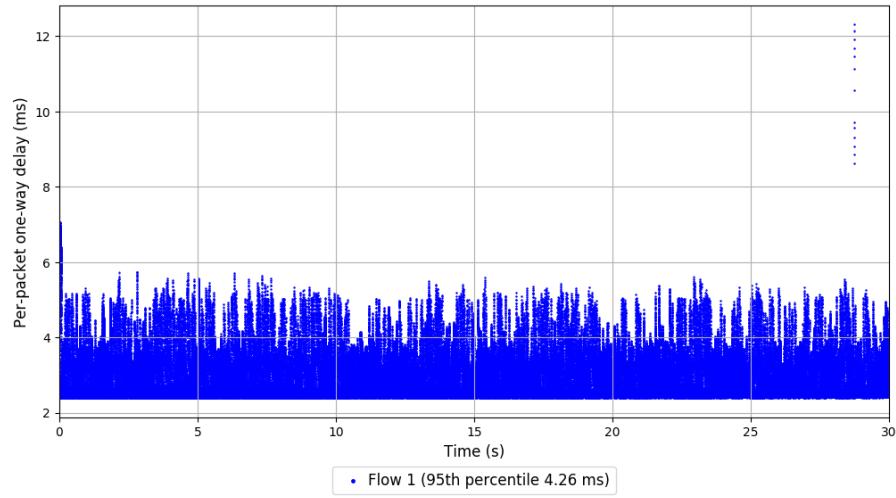
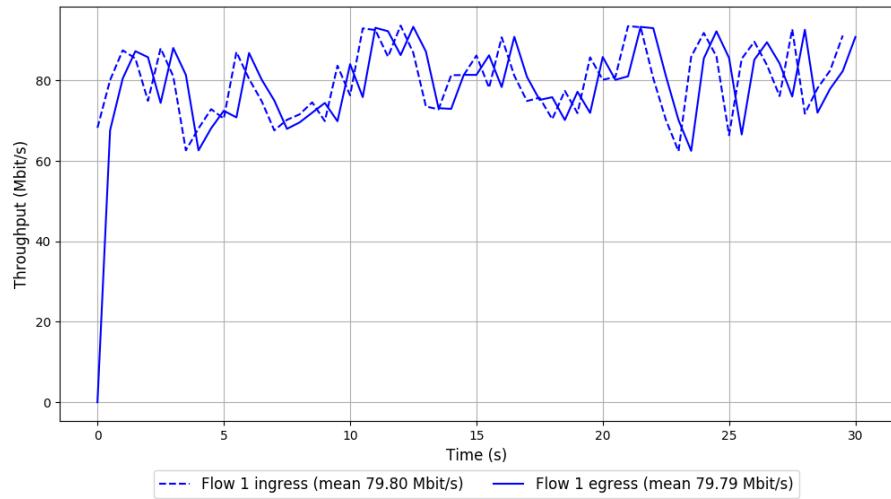


Run 1: Statistics of Copa

```
Start at: 2019-01-19 05:30:02
End at: 2019-01-19 05:30:32
Local clock offset: -0.959 ms
Remote clock offset: 0.447 ms

# Below is generated by plot.py at 2019-01-19 07:20:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.79 Mbit/s
95th percentile per-packet one-way delay: 4.257 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 79.79 Mbit/s
95th percentile per-packet one-way delay: 4.257 ms
Loss rate: 0.02%
```

Run 1: Report of Copa — Data Link

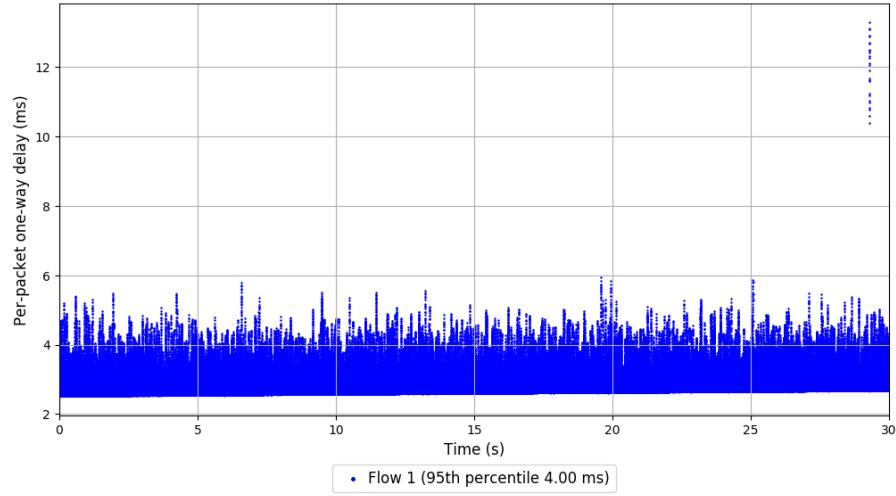
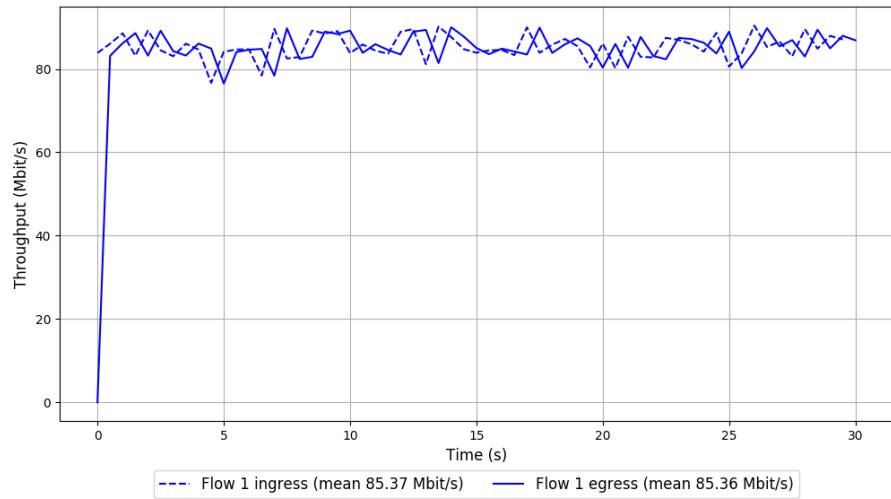


Run 2: Statistics of Copa

```
Start at: 2019-01-19 05:53:45
End at: 2019-01-19 05:54:16
Local clock offset: -3.834 ms
Remote clock offset: 0.836 ms

# Below is generated by plot.py at 2019-01-19 07:20:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.36 Mbit/s
95th percentile per-packet one-way delay: 3.998 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.36 Mbit/s
95th percentile per-packet one-way delay: 3.998 ms
Loss rate: 0.01%
```

Run 2: Report of Copa — Data Link

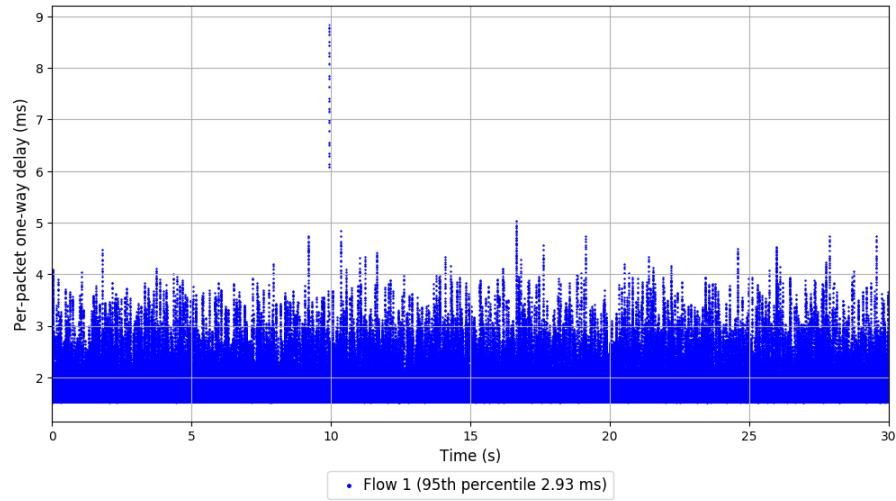
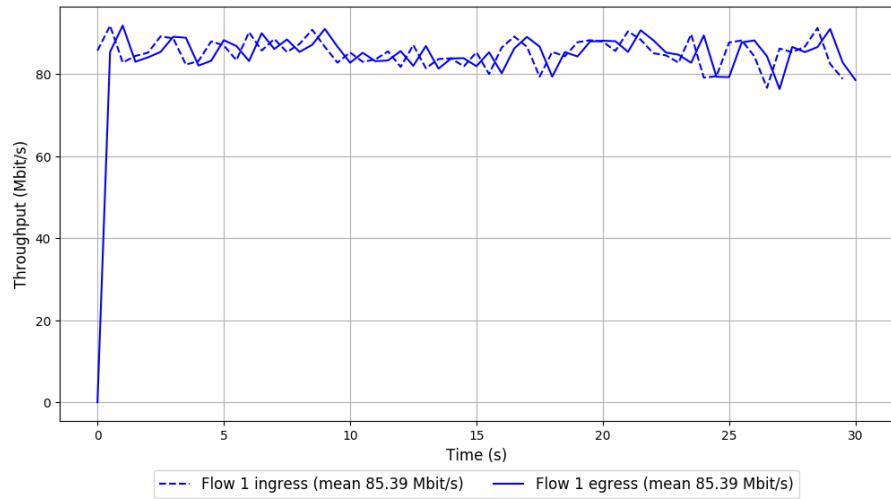


Run 3: Statistics of Copa

```
Start at: 2019-01-19 06:17:29
End at: 2019-01-19 06:17:59
Local clock offset: -8.001 ms
Remote clock offset: 0.99 ms

# Below is generated by plot.py at 2019-01-19 07:20:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.39 Mbit/s
95th percentile per-packet one-way delay: 2.927 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.39 Mbit/s
95th percentile per-packet one-way delay: 2.927 ms
Loss rate: 0.01%
```

Run 3: Report of Copa — Data Link

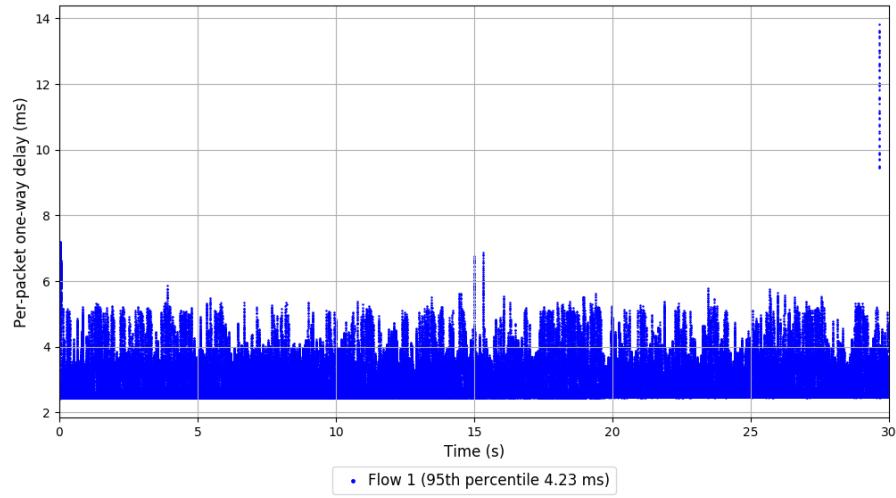
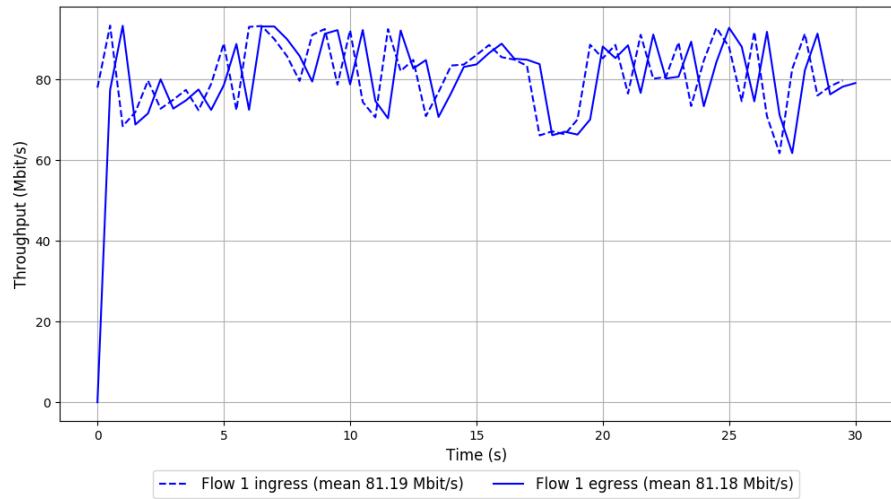


Run 4: Statistics of Copa

```
Start at: 2019-01-19 06:41:13
End at: 2019-01-19 06:41:43
Local clock offset: -7.685 ms
Remote clock offset: 1.057 ms

# Below is generated by plot.py at 2019-01-19 07:21:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.18 Mbit/s
95th percentile per-packet one-way delay: 4.230 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 81.18 Mbit/s
95th percentile per-packet one-way delay: 4.230 ms
Loss rate: 0.02%
```

Run 4: Report of Copa — Data Link

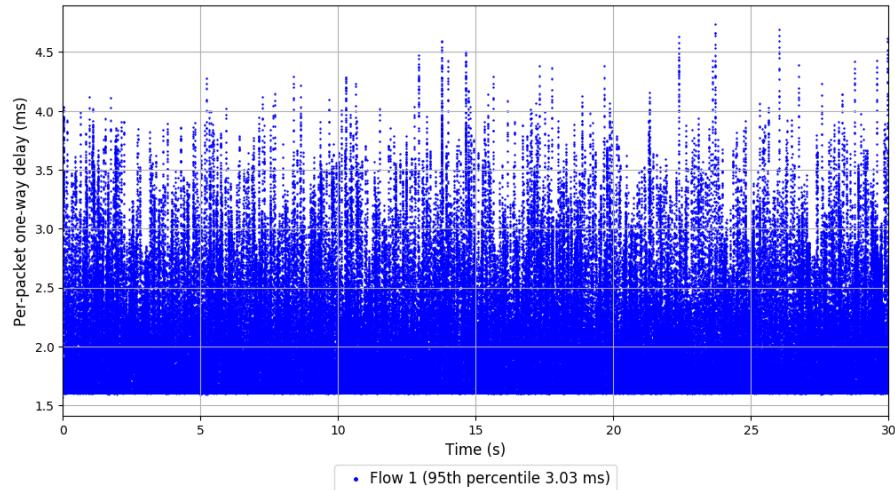
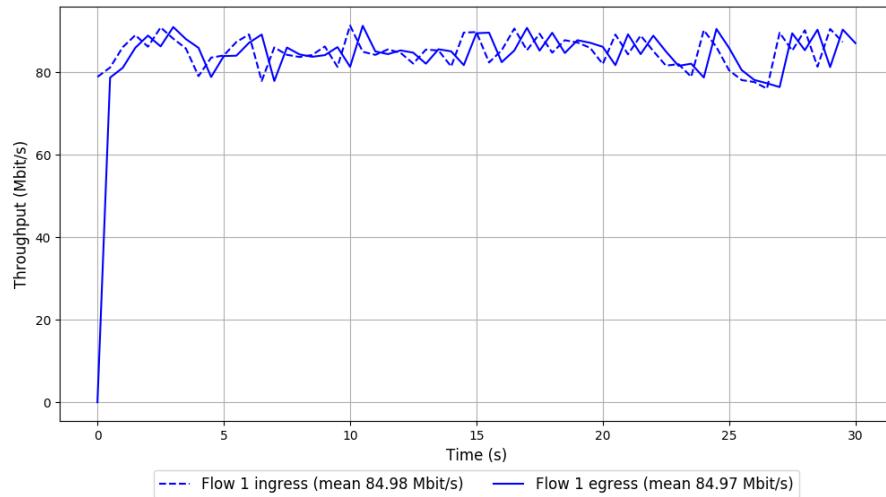


Run 5: Statistics of Copa

```
Start at: 2019-01-19 07:04:59
End at: 2019-01-19 07:05:29
Local clock offset: -7.977 ms
Remote clock offset: 1.109 ms

# Below is generated by plot.py at 2019-01-19 07:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.97 Mbit/s
95th percentile per-packet one-way delay: 3.033 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 84.97 Mbit/s
95th percentile per-packet one-way delay: 3.033 ms
Loss rate: 0.01%
```

Run 5: Report of Copa — Data Link

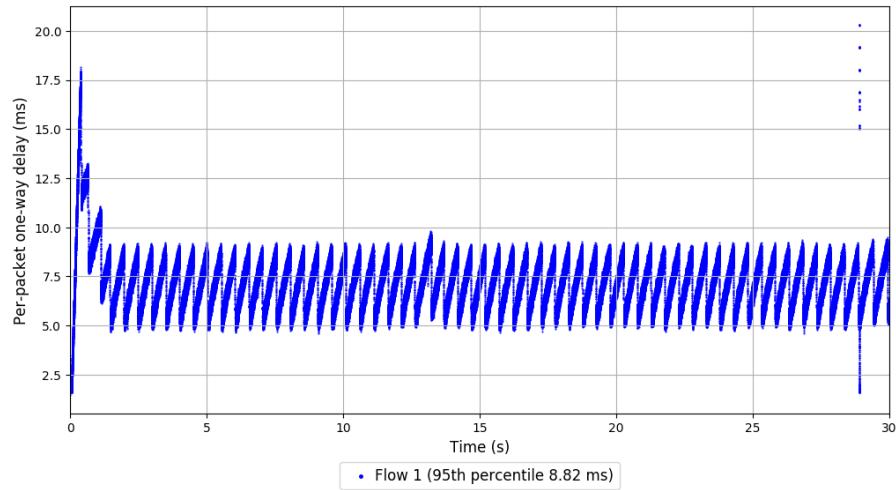
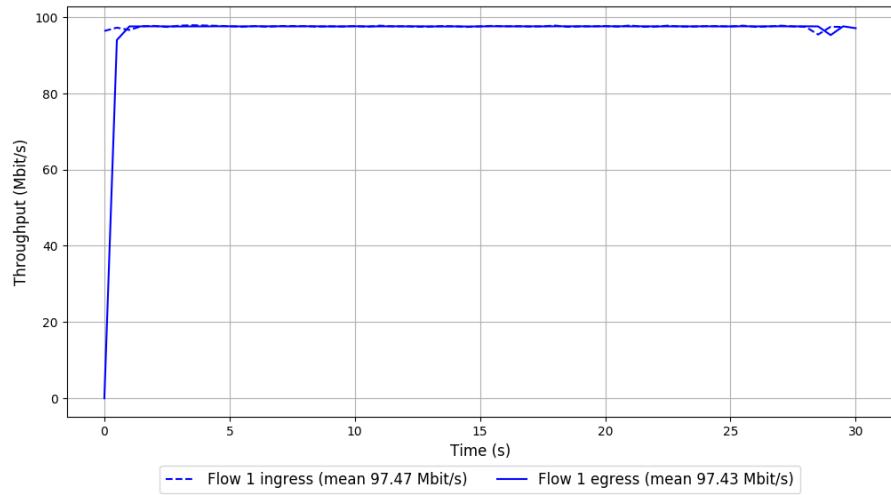


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-19 05:40:12
End at: 2019-01-19 05:40:42
Local clock offset: -1.557 ms
Remote clock offset: 0.683 ms

# Below is generated by plot.py at 2019-01-19 07:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 8.819 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 8.819 ms
Loss rate: 0.05%
```

Run 1: Report of TCP Cubic — Data Link

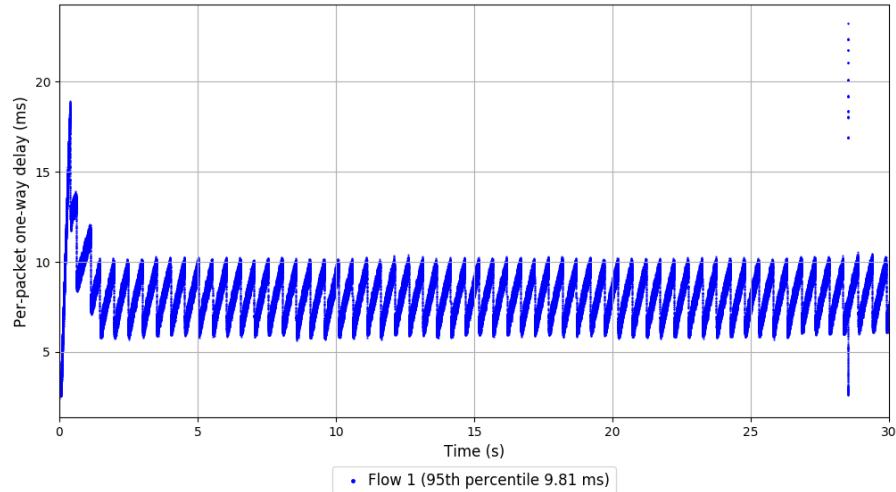
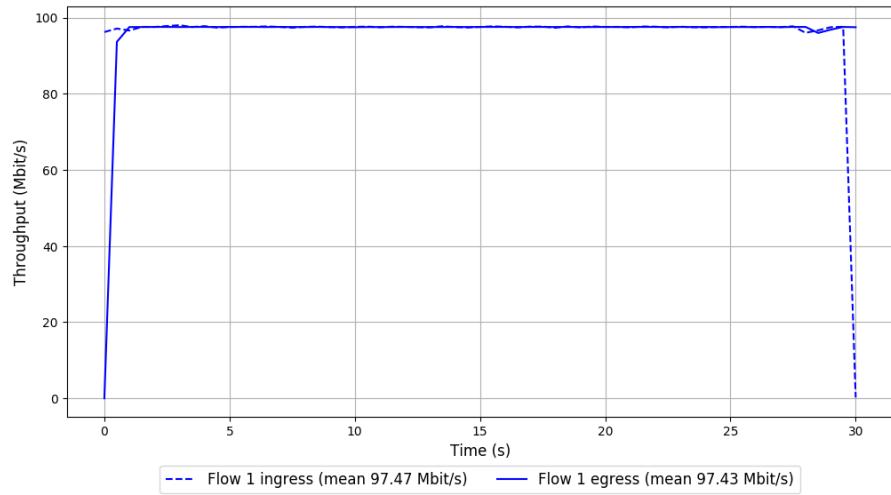


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-19 06:03:56
End at: 2019-01-19 06:04:26
Local clock offset: -6.042 ms
Remote clock offset: 0.772 ms

# Below is generated by plot.py at 2019-01-19 07:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 9.813 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 9.813 ms
Loss rate: 0.05%
```

Run 2: Report of TCP Cubic — Data Link

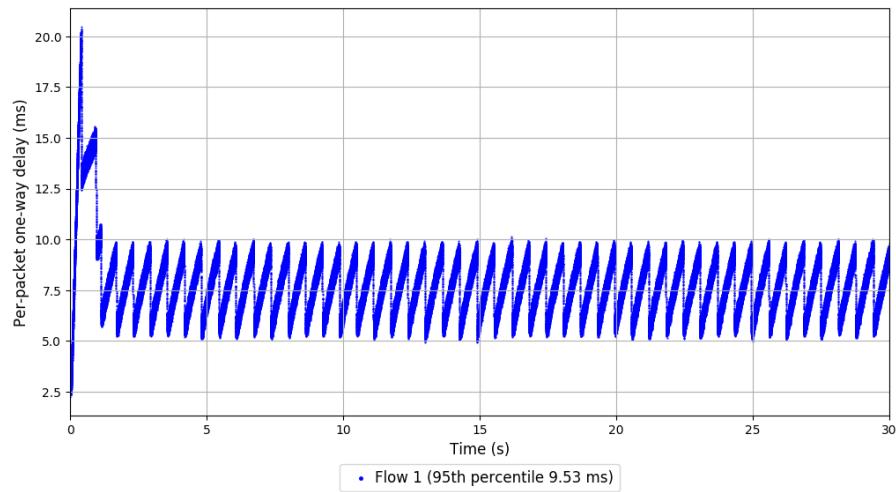
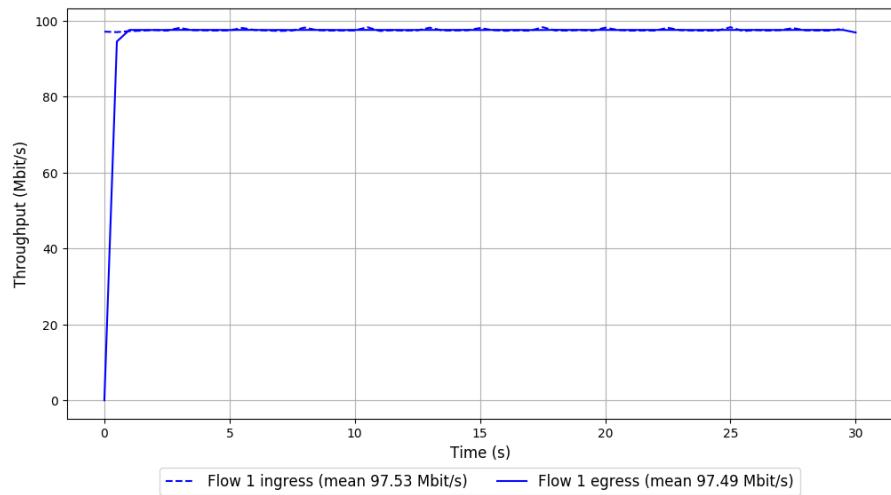


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-19 06:27:39
End at: 2019-01-19 06:28:09
Local clock offset: -7.326 ms
Remote clock offset: 0.962 ms

# Below is generated by plot.py at 2019-01-19 07:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 9.530 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 9.530 ms
Loss rate: 0.06%
```

Run 3: Report of TCP Cubic — Data Link

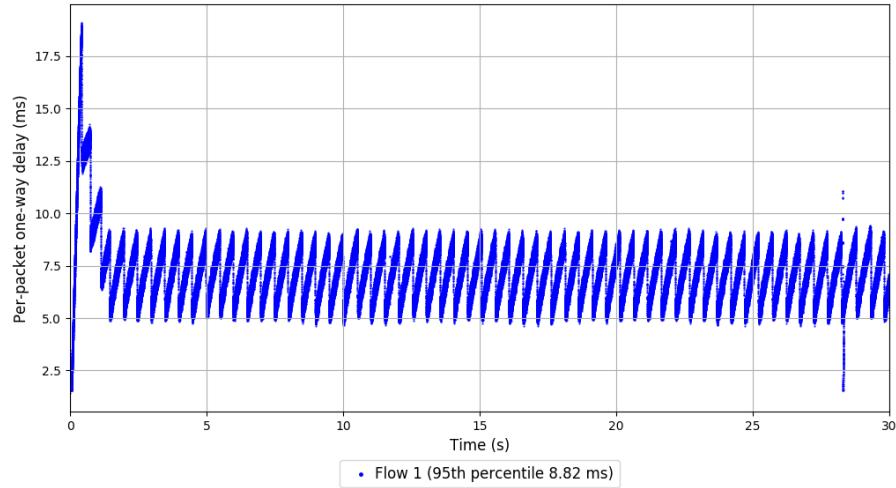
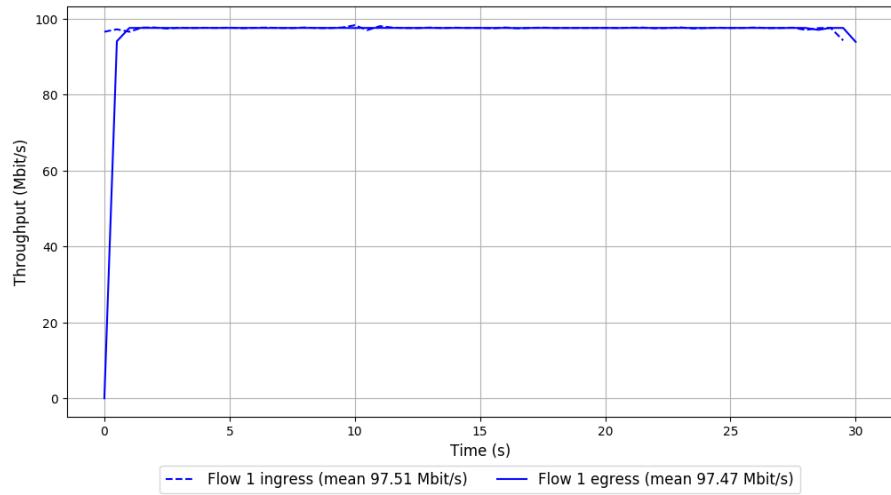


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-19 06:51:23
End at: 2019-01-19 06:51:53
Local clock offset: -8.243 ms
Remote clock offset: 1.214 ms

# Below is generated by plot.py at 2019-01-19 07:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 8.825 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 8.825 ms
Loss rate: 0.05%
```

Run 4: Report of TCP Cubic — Data Link

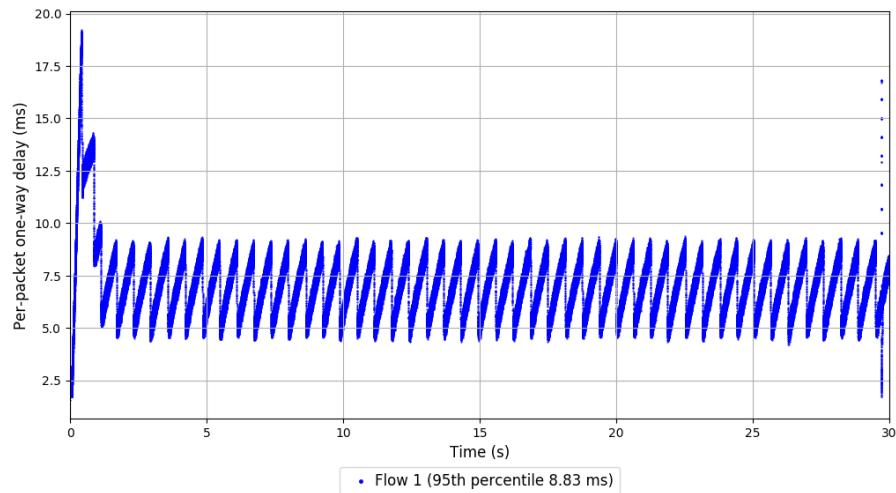
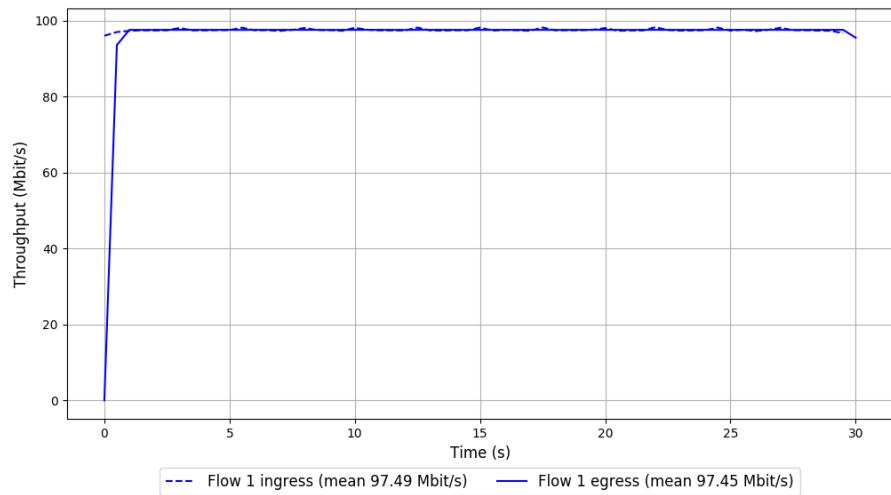


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-19 07:15:10
End at: 2019-01-19 07:15:40
Local clock offset: -8.0 ms
Remote clock offset: 1.059 ms

# Below is generated by plot.py at 2019-01-19 07:21:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 8.833 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 8.833 ms
Loss rate: 0.06%
```

Run 5: Report of TCP Cubic — Data Link

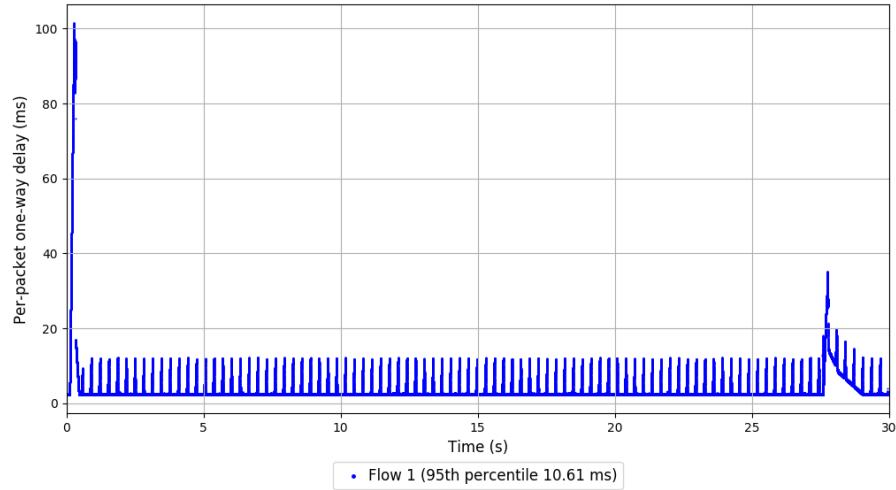
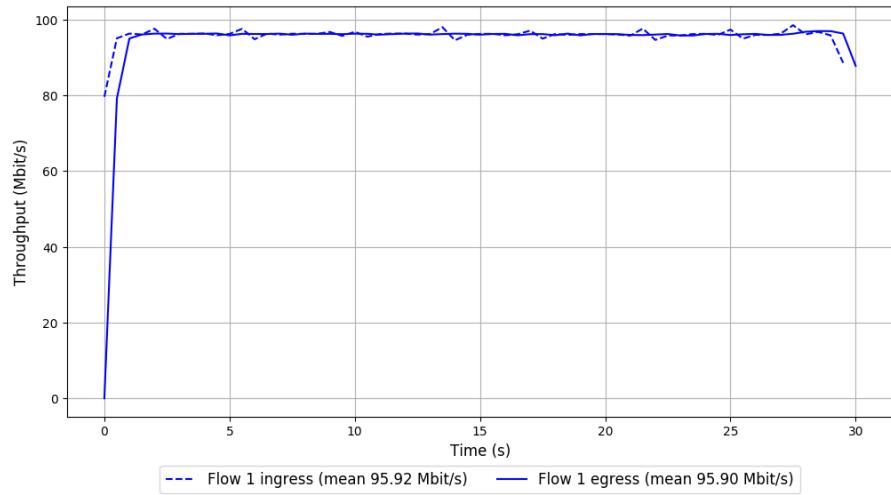


```
Run 1: Statistics of FillP

Start at: 2019-01-19 05:26:38
End at: 2019-01-19 05:27:08
Local clock offset: -0.953 ms
Remote clock offset: 0.437 ms

# Below is generated by plot.py at 2019-01-19 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 10.612 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 10.612 ms
Loss rate: 0.03%
```

Run 1: Report of FillP — Data Link

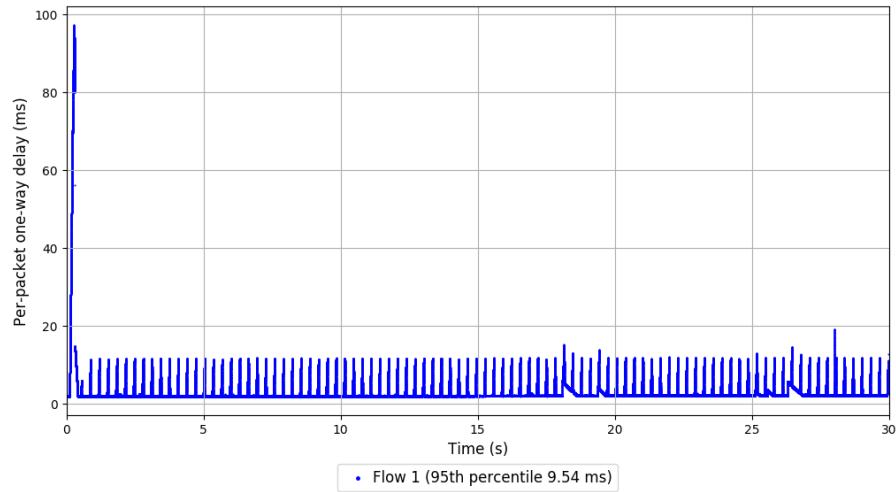
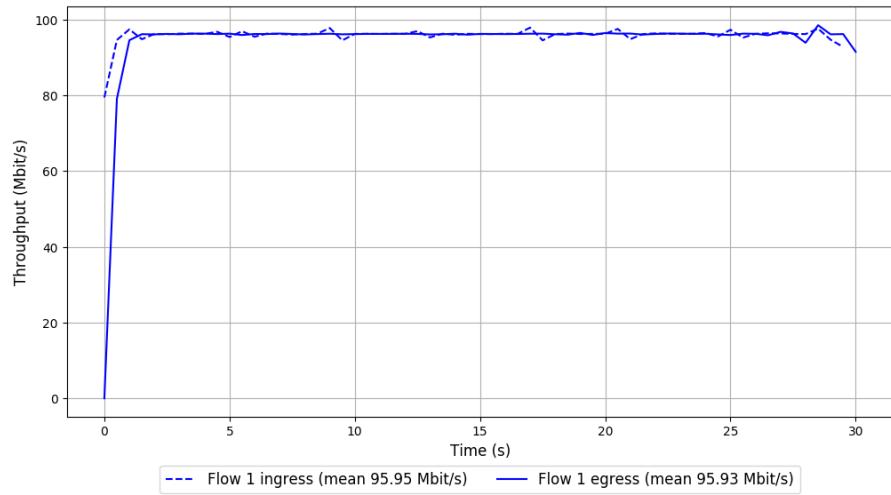


Run 2: Statistics of FillP

```
Start at: 2019-01-19 05:50:22
End at: 2019-01-19 05:50:52
Local clock offset: -3.288 ms
Remote clock offset: 0.71 ms

# Below is generated by plot.py at 2019-01-19 07:22:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 9.544 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 9.544 ms
Loss rate: 0.03%
```

Run 2: Report of FillP — Data Link

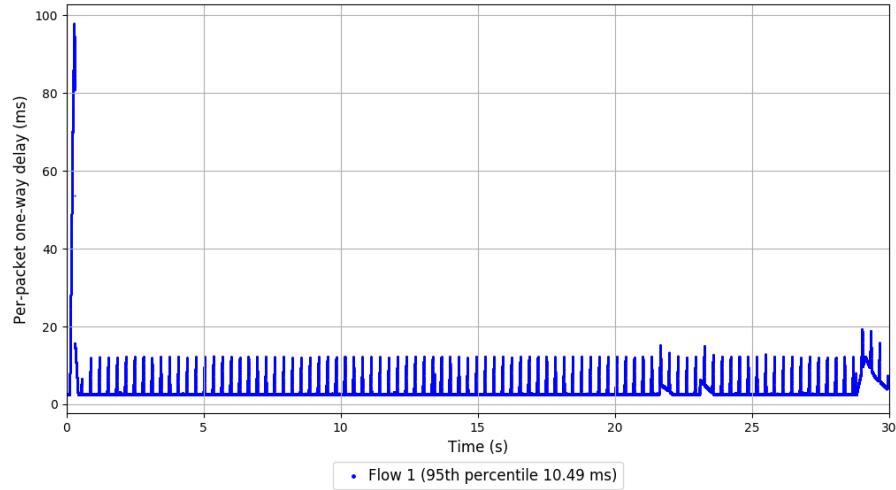
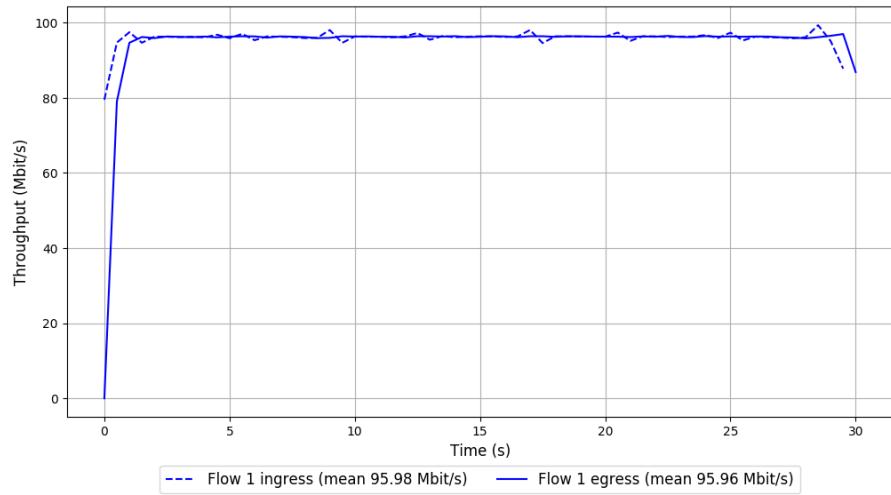


```
Run 3: Statistics of FillP
```

```
Start at: 2019-01-19 06:14:05
End at: 2019-01-19 06:14:35
Local clock offset: -7.012 ms
Remote clock offset: 0.812 ms

# Below is generated by plot.py at 2019-01-19 07:22:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 10.486 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 10.486 ms
Loss rate: 0.04%
```

Run 3: Report of FillP — Data Link

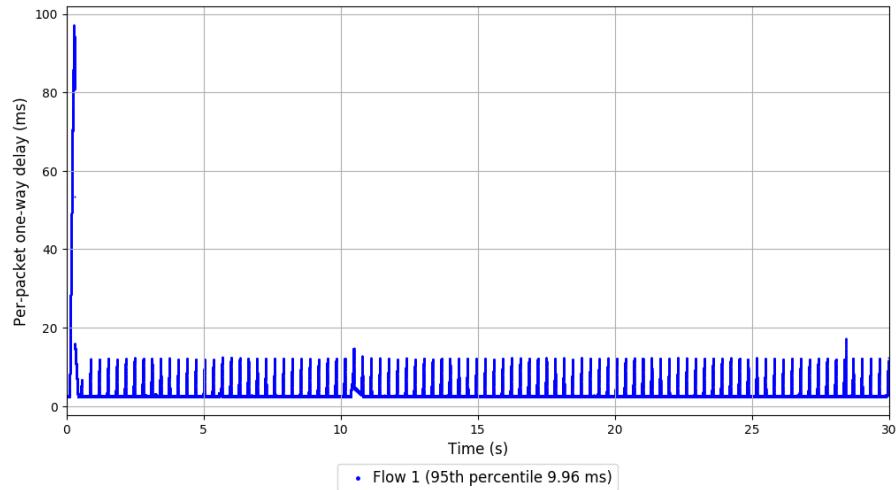
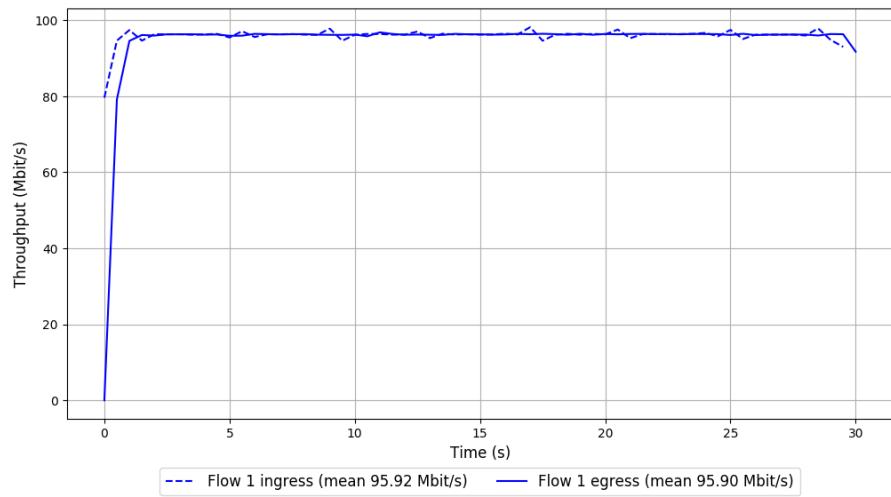


Run 4: Statistics of FillP

```
Start at: 2019-01-19 06:37:49
End at: 2019-01-19 06:38:19
Local clock offset: -7.58 ms
Remote clock offset: 0.932 ms

# Below is generated by plot.py at 2019-01-19 07:22:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 9.959 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 9.959 ms
Loss rate: 0.03%
```

Run 4: Report of FillP — Data Link

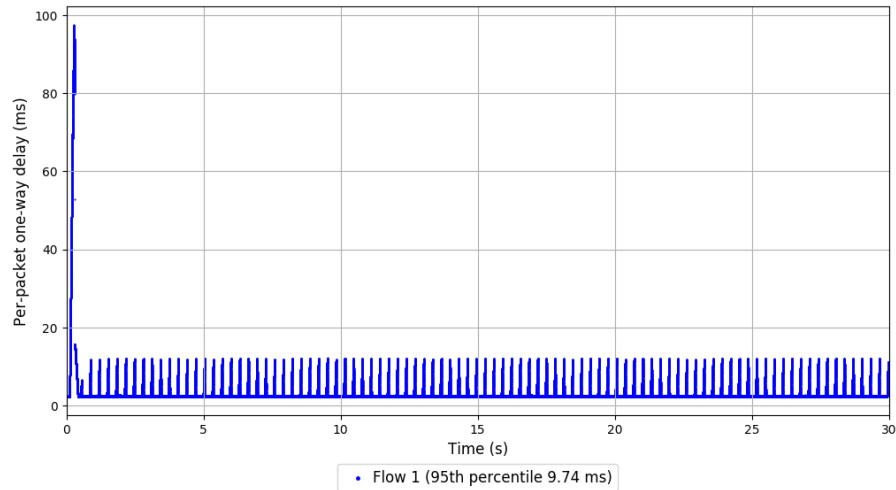
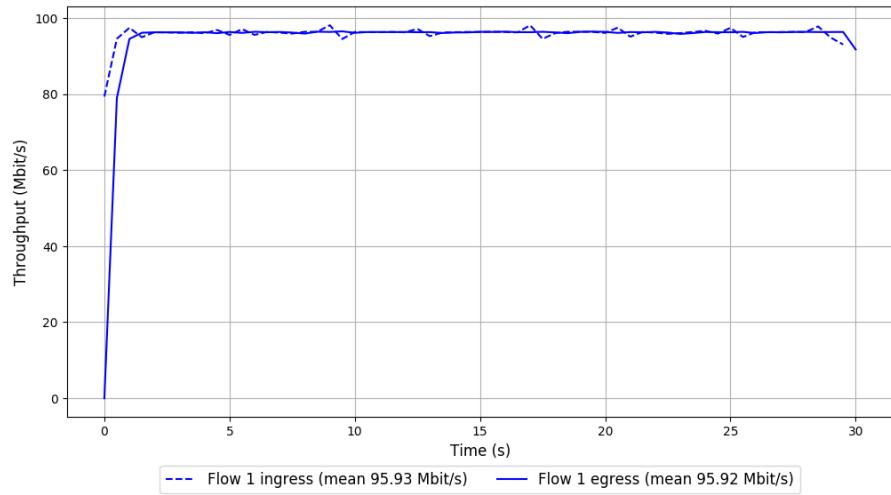


Run 5: Statistics of FillP

```
Start at: 2019-01-19 07:01:39
End at: 2019-01-19 07:02:09
Local clock offset: -7.164 ms
Remote clock offset: 1.186 ms

# Below is generated by plot.py at 2019-01-19 07:22:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 9.737 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 9.737 ms
Loss rate: 0.03%
```

Run 5: Report of FillP — Data Link

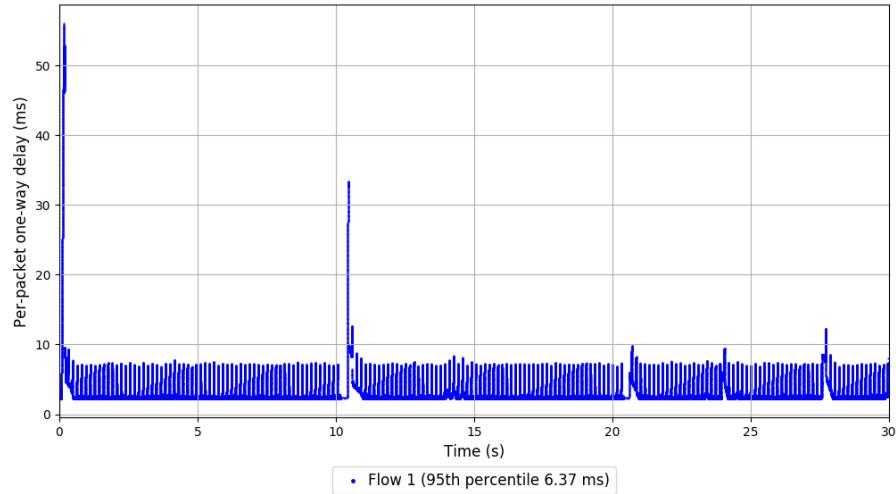
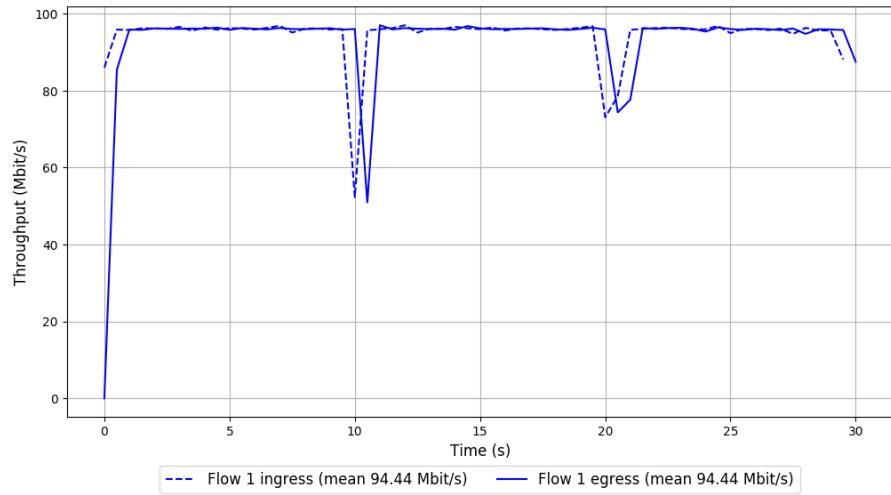


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-19 05:18:45
End at: 2019-01-19 05:19:15
Local clock offset: -0.831 ms
Remote clock offset: 0.281 ms

# Below is generated by plot.py at 2019-01-19 07:22:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 6.370 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 6.370 ms
Loss rate: 0.02%
```

Run 1: Report of FillP-Sheep — Data Link

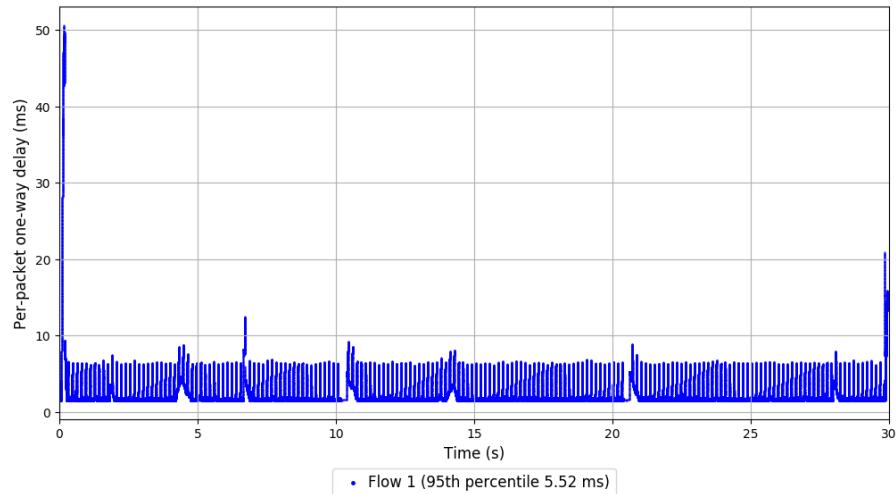
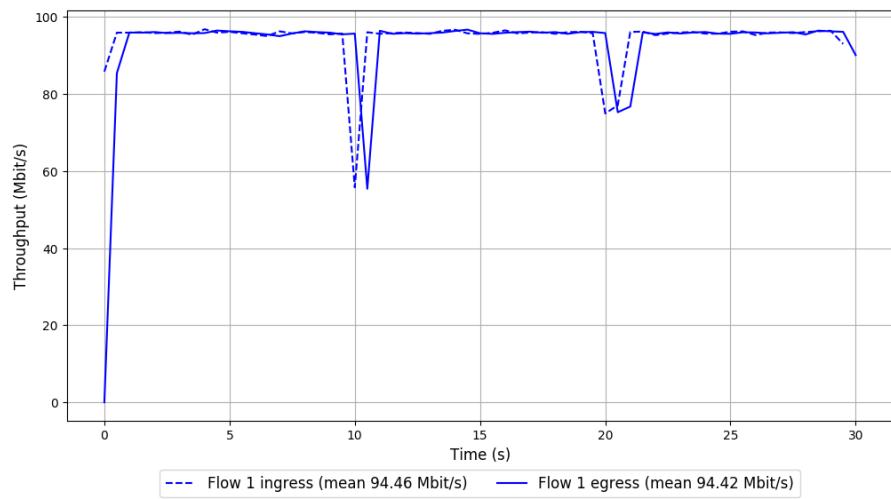


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-19 05:42:29
End at: 2019-01-19 05:42:59
Local clock offset: -1.487 ms
Remote clock offset: 0.689 ms

# Below is generated by plot.py at 2019-01-19 07:22:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 5.516 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 5.516 ms
Loss rate: 0.06%
```

Run 2: Report of FillP-Sheep — Data Link

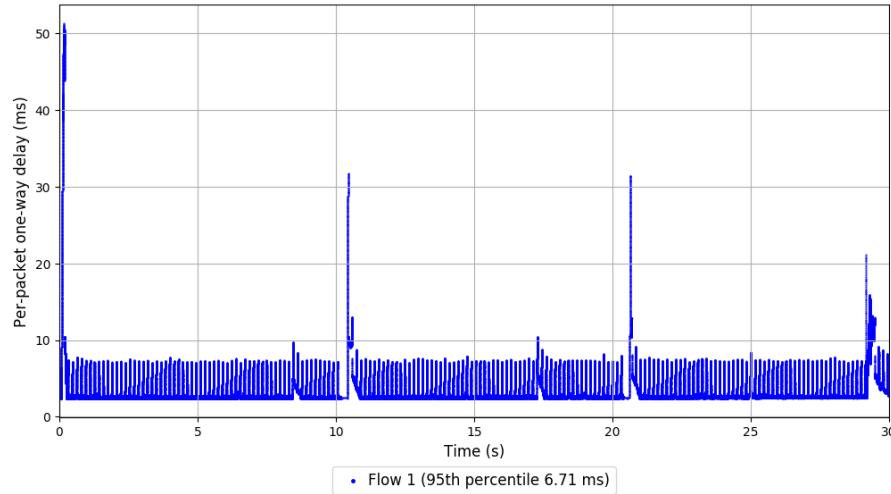
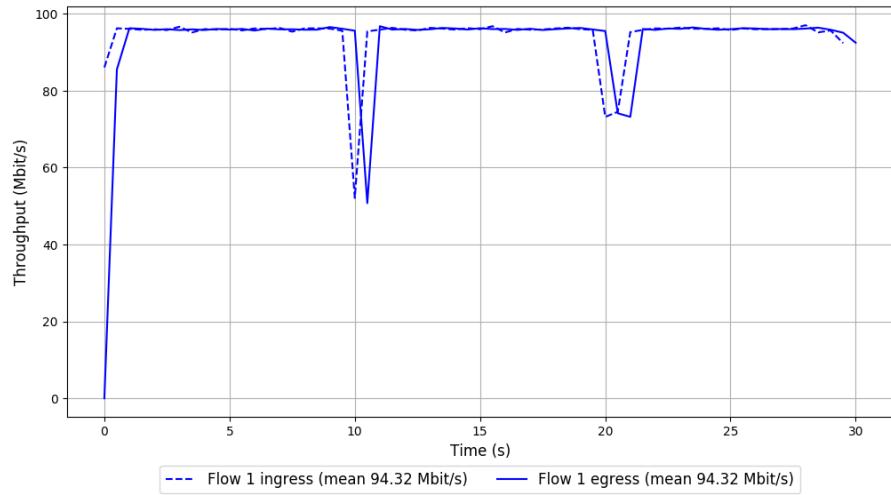


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-19 06:06:14
End at: 2019-01-19 06:06:44
Local clock offset: -6.313 ms
Remote clock offset: 0.824 ms

# Below is generated by plot.py at 2019-01-19 07:22:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 6.707 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 6.707 ms
Loss rate: 0.02%
```

Run 3: Report of FillP-Sheep — Data Link

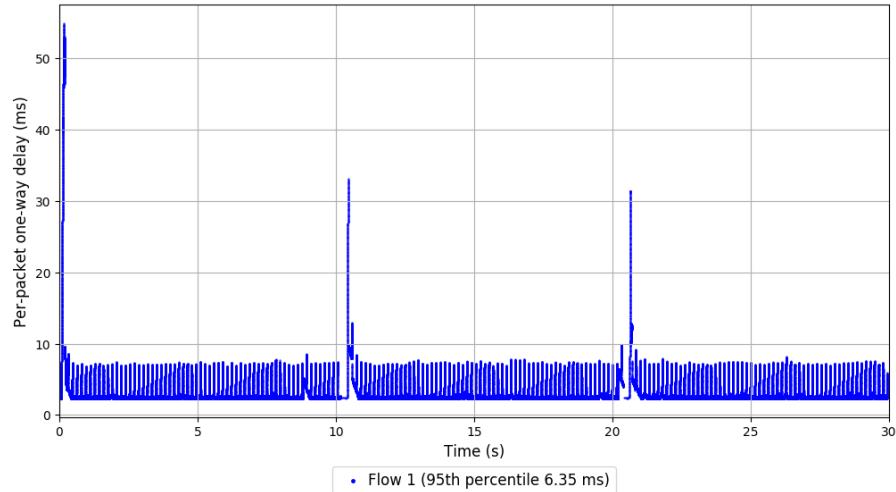
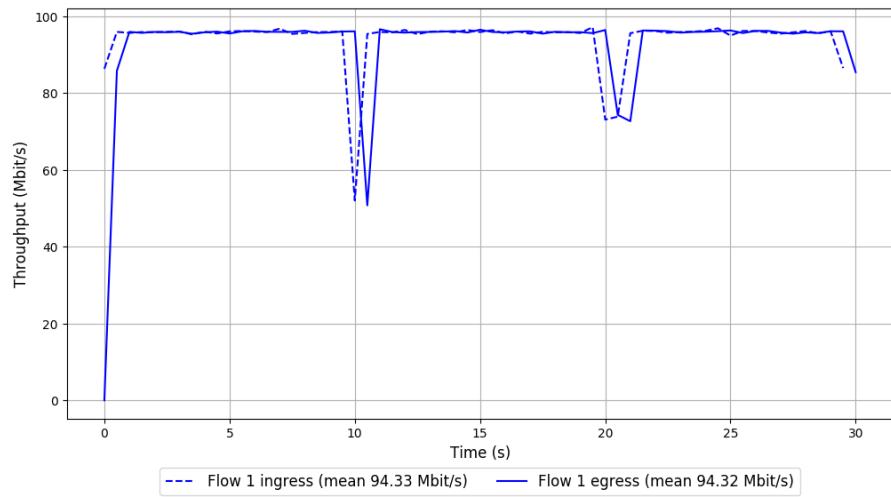


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-19 06:29:57
End at: 2019-01-19 06:30:27
Local clock offset: -7.385 ms
Remote clock offset: 0.909 ms

# Below is generated by plot.py at 2019-01-19 07:23:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 6.352 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 6.352 ms
Loss rate: 0.03%
```

Run 4: Report of FillP-Sheep — Data Link

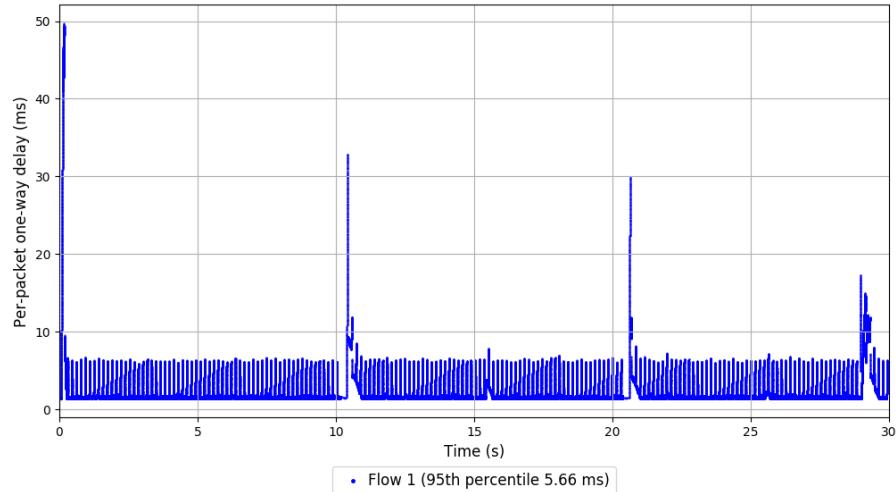
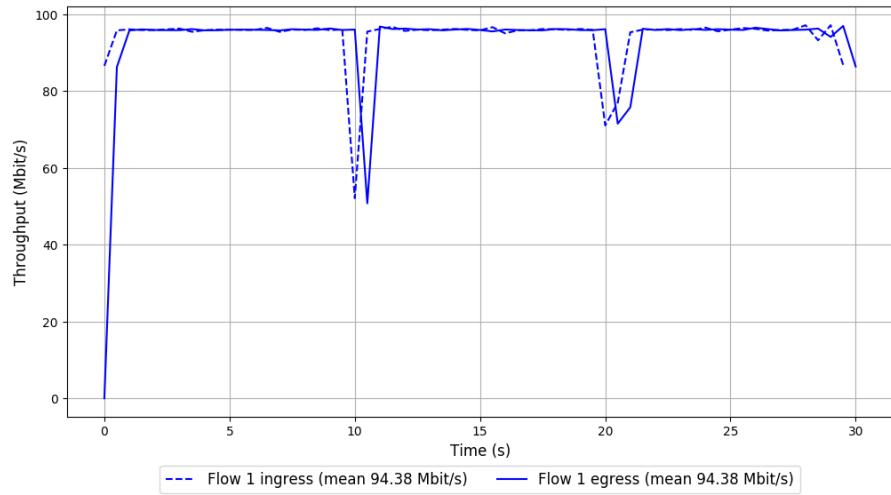


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-19 06:53:41
End at: 2019-01-19 06:54:11
Local clock offset: -8.18 ms
Remote clock offset: 1.215 ms

# Below is generated by plot.py at 2019-01-19 07:23:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 5.658 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 5.658 ms
Loss rate: 0.02%
```

Run 5: Report of FillP-Sheep — Data Link

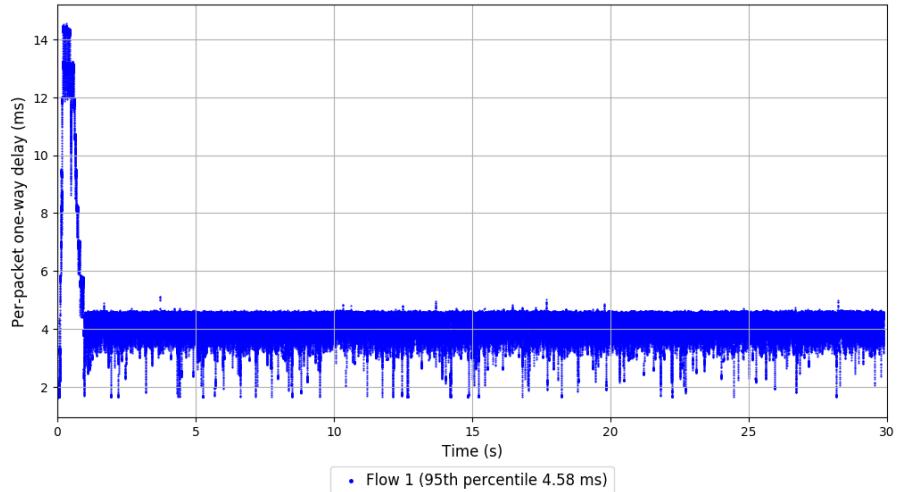
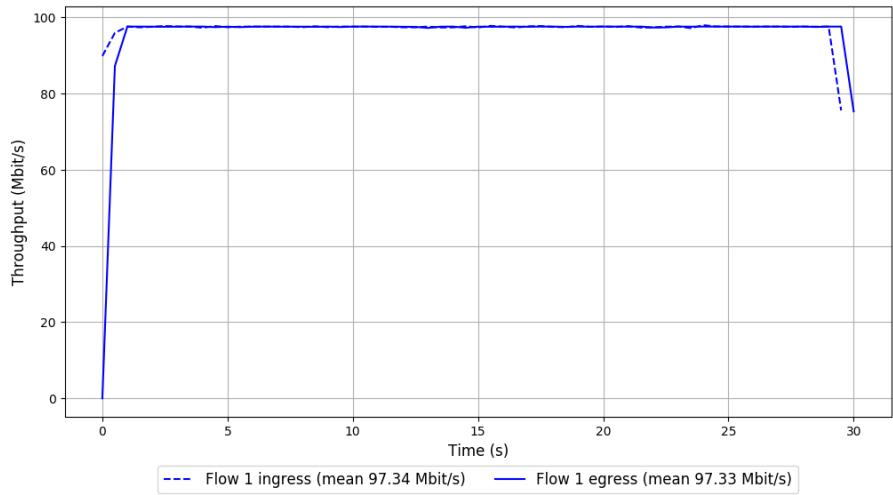


Run 1: Statistics of Indigo

```
Start at: 2019-01-19 05:31:12
End at: 2019-01-19 05:31:42
Local clock offset: -1.72 ms
Remote clock offset: 0.457 ms

# Below is generated by plot.py at 2019-01-19 07:23:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 4.578 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 4.578 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo — Data Link

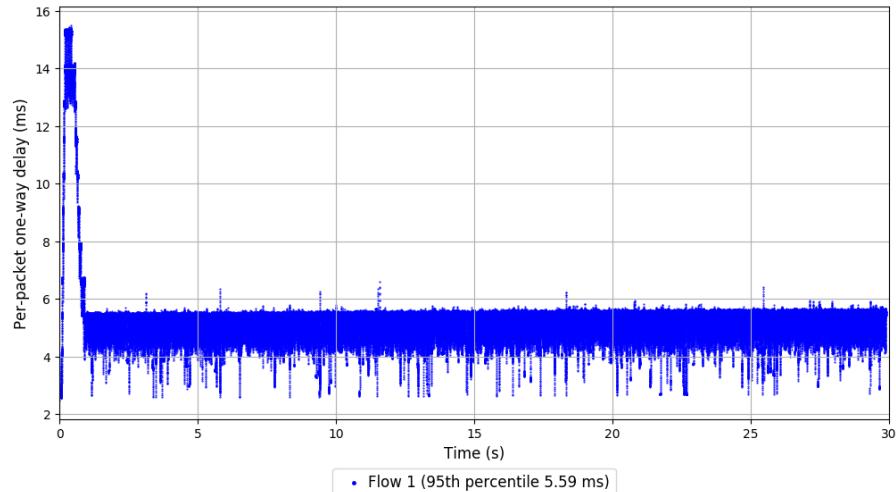
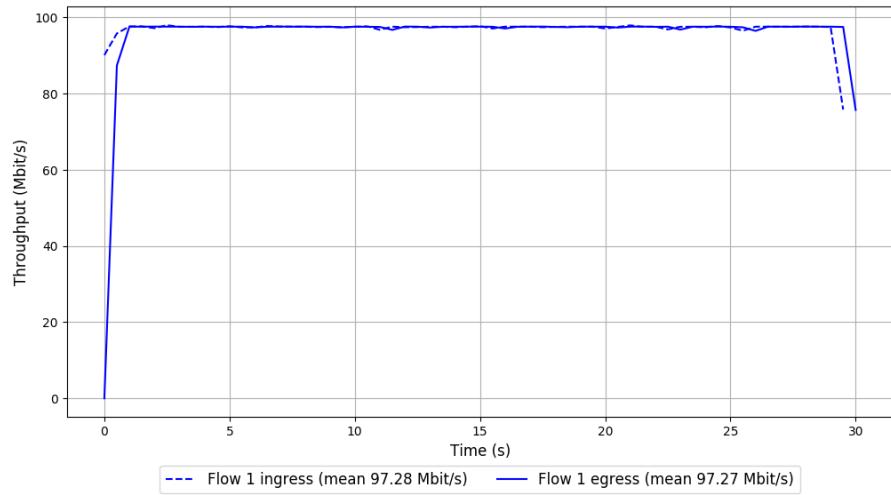


Run 2: Statistics of Indigo

```
Start at: 2019-01-19 05:54:56
End at: 2019-01-19 05:55:26
Local clock offset: -4.222 ms
Remote clock offset: 0.781 ms

# Below is generated by plot.py at 2019-01-19 07:23:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 5.587 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 5.587 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo — Data Link

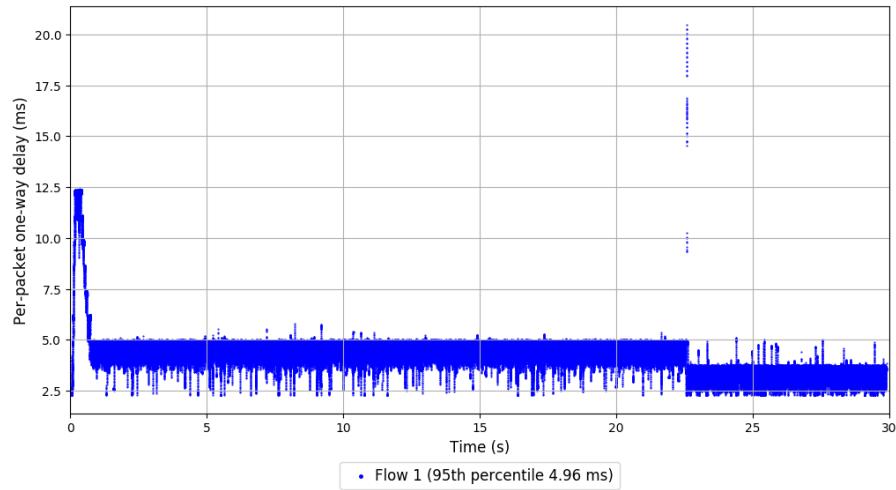
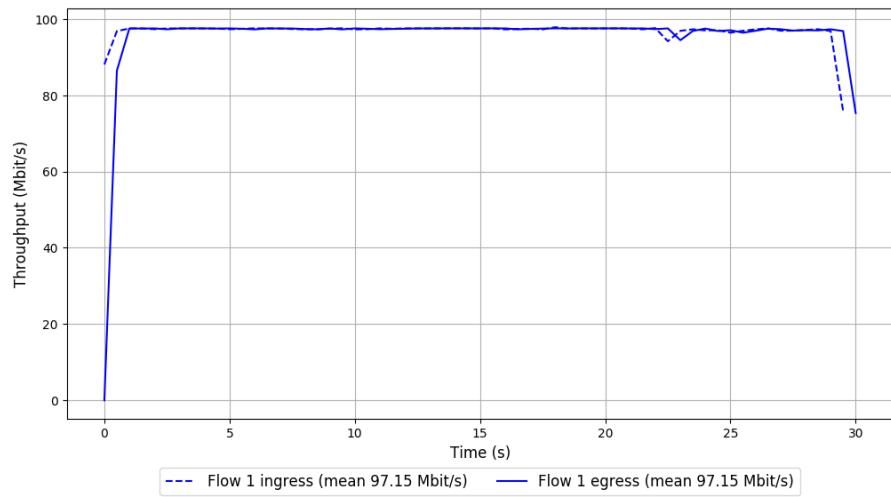


Run 3: Statistics of Indigo

```
Start at: 2019-01-19 06:18:39
End at: 2019-01-19 06:19:09
Local clock offset: -7.242 ms
Remote clock offset: 0.998 ms

# Below is generated by plot.py at 2019-01-19 07:23:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 4.956 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 4.956 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo — Data Link

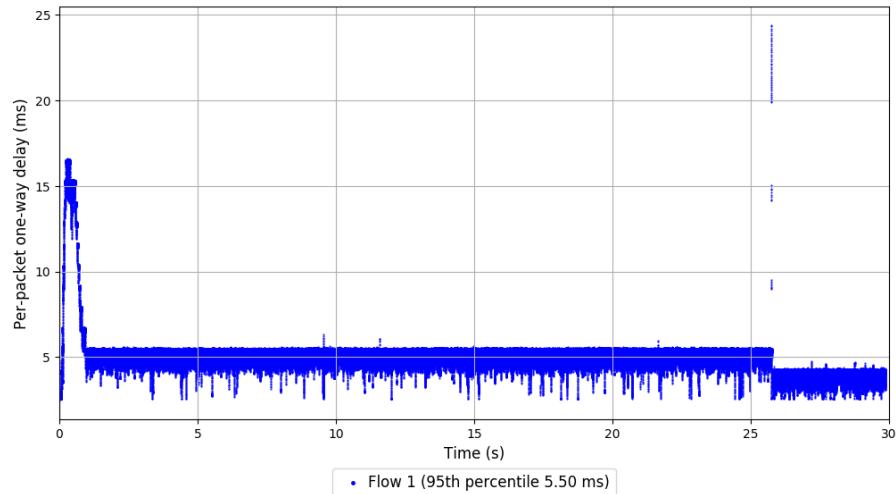
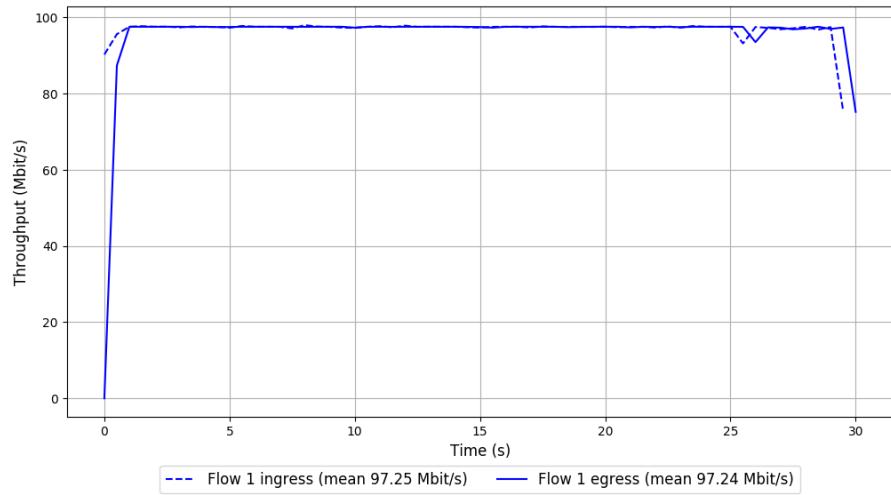


Run 4: Statistics of Indigo

```
Start at: 2019-01-19 06:42:23
End at: 2019-01-19 06:42:53
Local clock offset: -7.746 ms
Remote clock offset: 0.938 ms

# Below is generated by plot.py at 2019-01-19 07:24:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 5.498 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 5.498 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo — Data Link

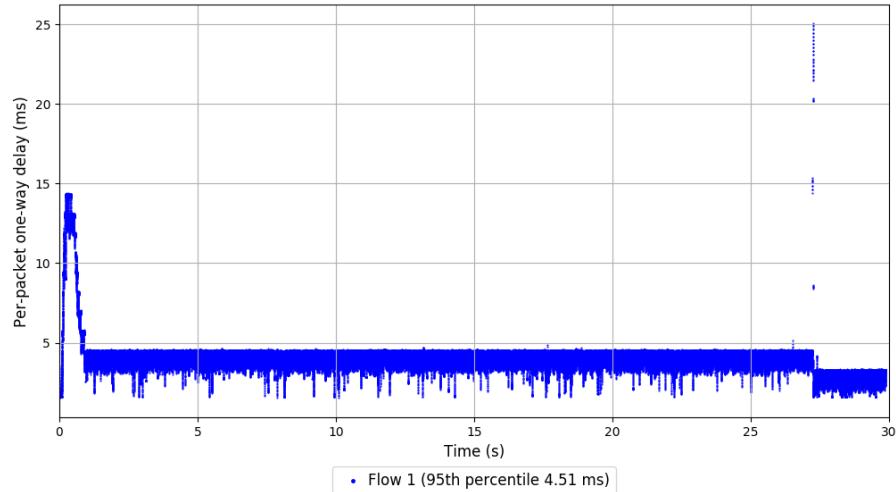
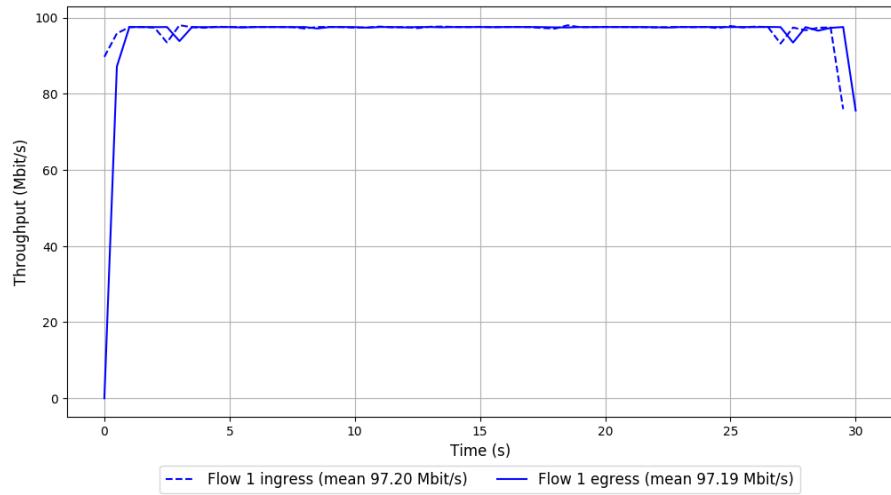


Run 5: Statistics of Indigo

```
Start at: 2019-01-19 07:06:10
End at: 2019-01-19 07:06:40
Local clock offset: -7.93 ms
Remote clock offset: 1.19 ms

# Below is generated by plot.py at 2019-01-19 07:24:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 4.513 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 4.513 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo — Data Link

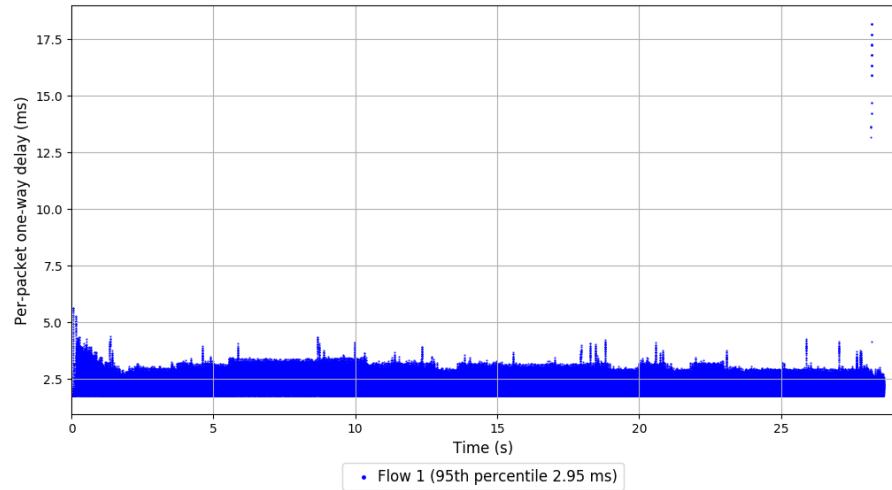
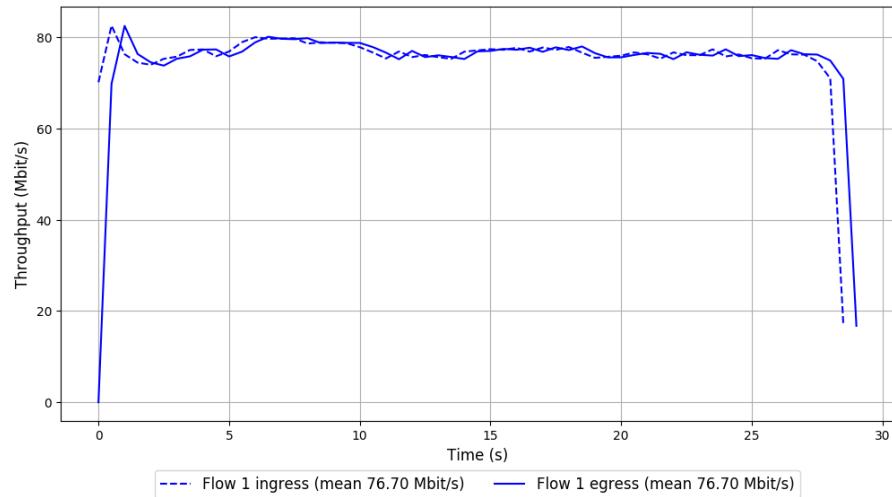


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 05:39:04
End at: 2019-01-19 05:39:34
Local clock offset: -1.566 ms
Remote clock offset: 0.499 ms

# Below is generated by plot.py at 2019-01-19 07:24:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.70 Mbit/s
95th percentile per-packet one-way delay: 2.946 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 76.70 Mbit/s
95th percentile per-packet one-way delay: 2.946 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesC3 — Data Link

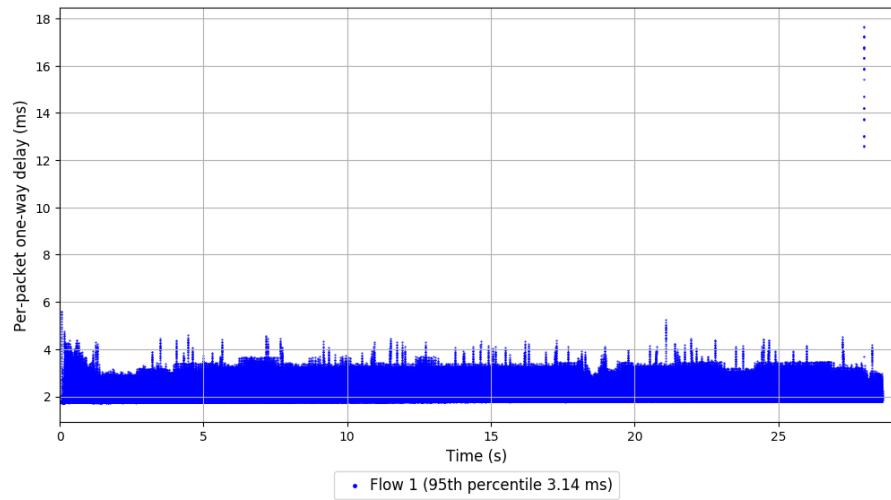
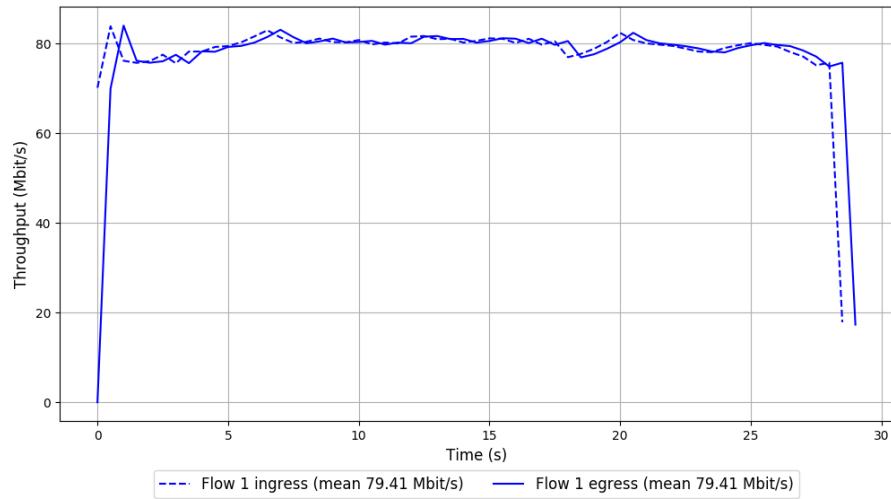


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 06:02:49
End at: 2019-01-19 06:03:19
Local clock offset: -6.628 ms
Remote clock offset: 0.833 ms

# Below is generated by plot.py at 2019-01-19 07:24:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.41 Mbit/s
95th percentile per-packet one-way delay: 3.142 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 79.41 Mbit/s
95th percentile per-packet one-way delay: 3.142 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesC3 — Data Link

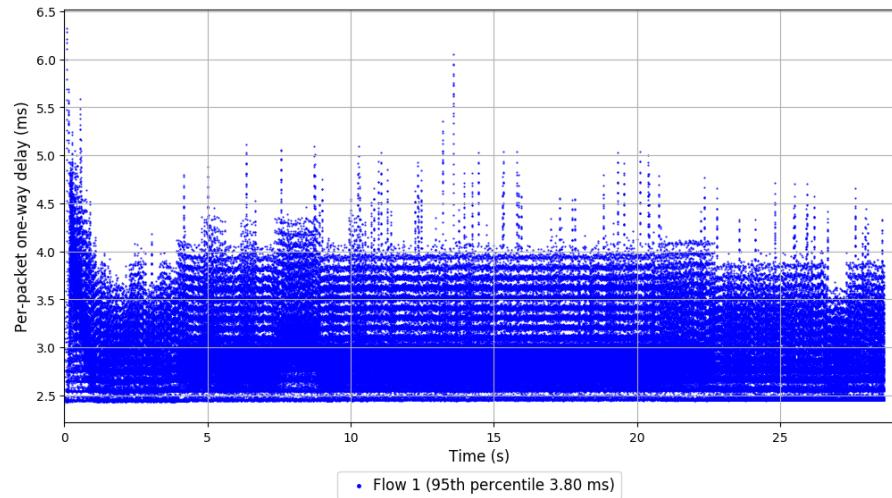
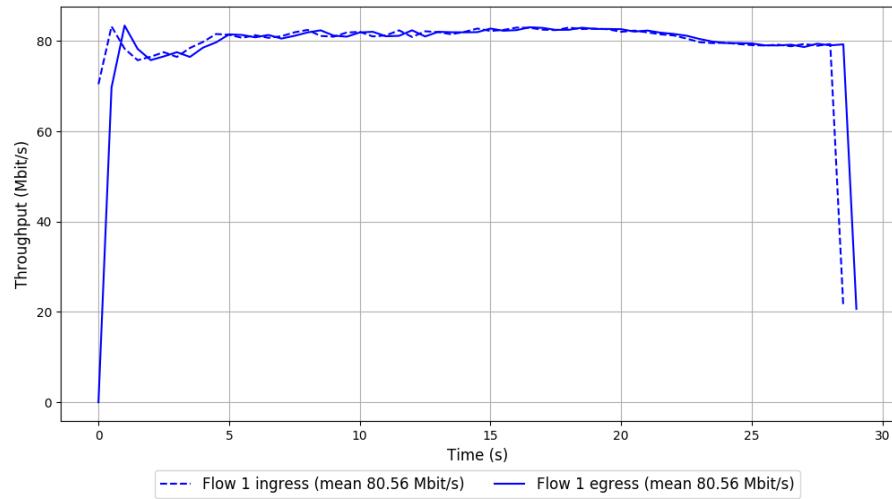


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 06:26:32
End at: 2019-01-19 06:27:02
Local clock offset: -7.248 ms
Remote clock offset: 0.934 ms

# Below is generated by plot.py at 2019-01-19 07:24:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.56 Mbit/s
95th percentile per-packet one-way delay: 3.797 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 80.56 Mbit/s
95th percentile per-packet one-way delay: 3.797 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesC3 — Data Link

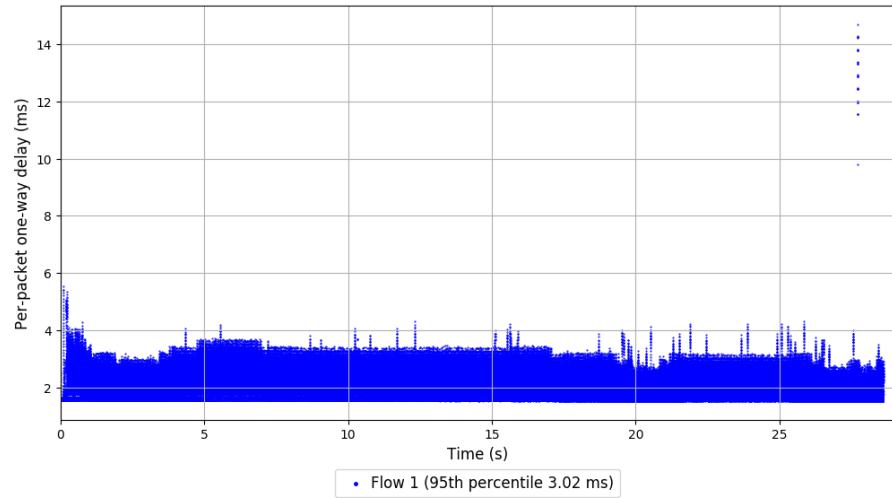
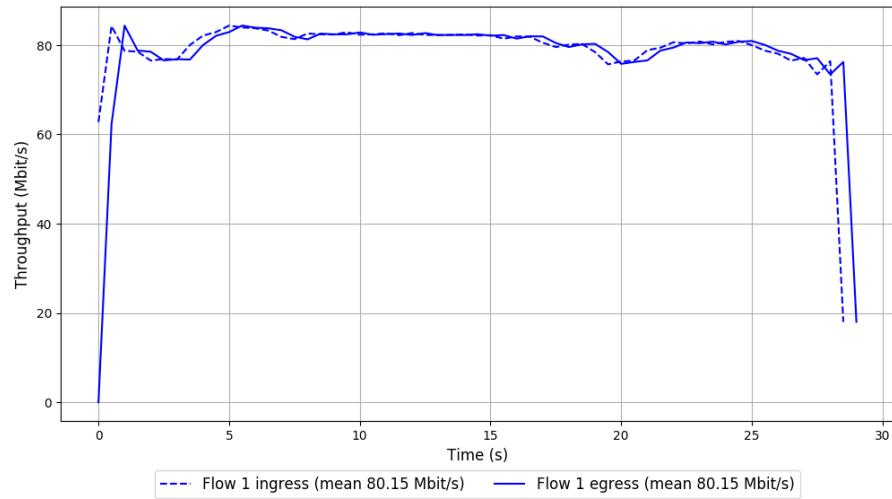


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 06:50:16
End at: 2019-01-19 06:50:46
Local clock offset: -8.331 ms
Remote clock offset: 1.195 ms

# Below is generated by plot.py at 2019-01-19 07:24:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.15 Mbit/s
95th percentile per-packet one-way delay: 3.025 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 80.15 Mbit/s
95th percentile per-packet one-way delay: 3.025 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC3 — Data Link

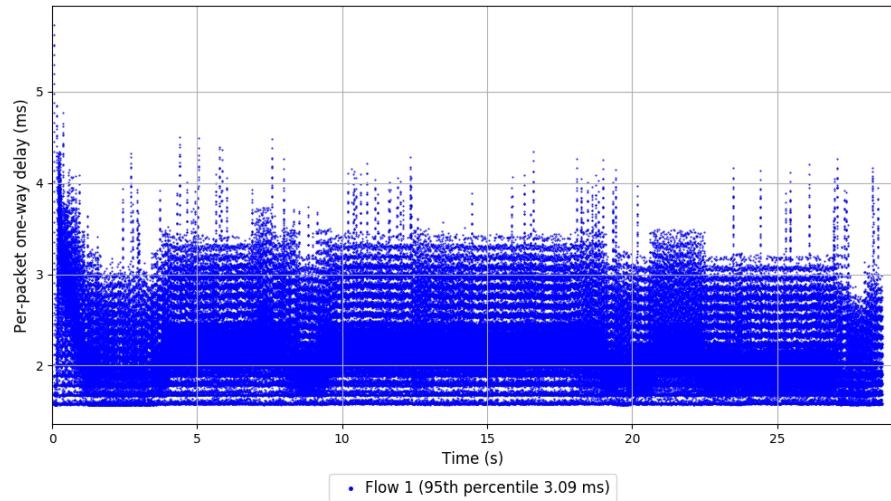
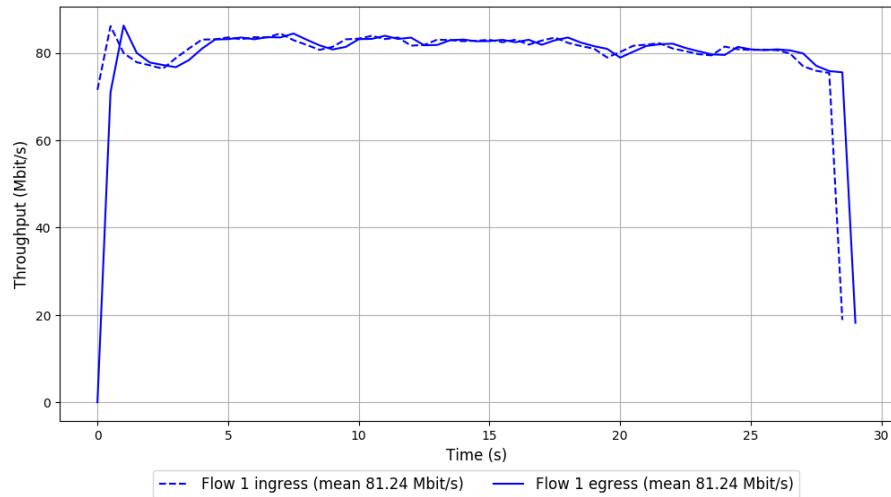


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 07:14:03
End at: 2019-01-19 07:14:33
Local clock offset: -7.98 ms
Remote clock offset: 1.176 ms

# Below is generated by plot.py at 2019-01-19 07:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.24 Mbit/s
95th percentile per-packet one-way delay: 3.089 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 81.24 Mbit/s
95th percentile per-packet one-way delay: 3.089 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesC3 — Data Link

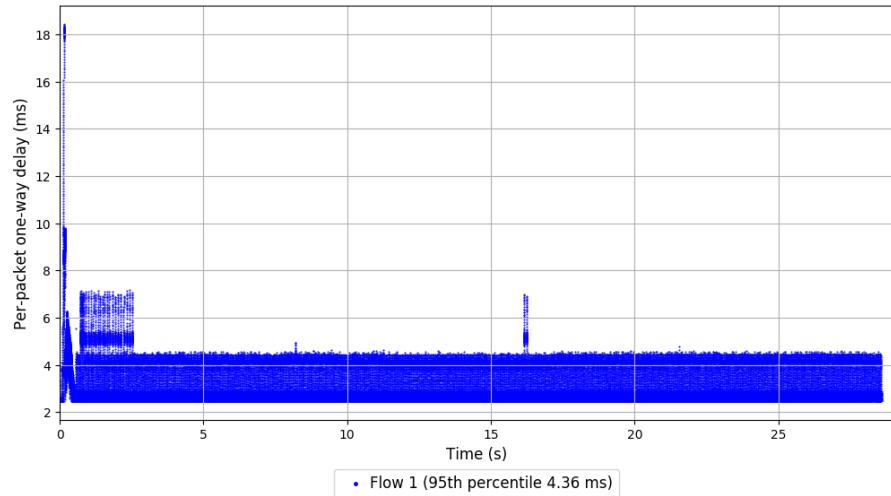
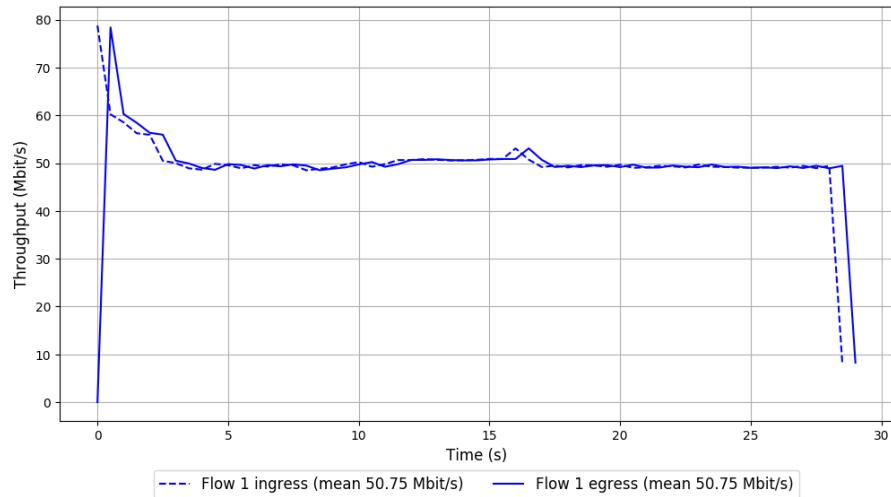


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-19 05:20:56
End at: 2019-01-19 05:21:26
Local clock offset: -0.86 ms
Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2019-01-19 07:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.75 Mbit/s
95th percentile per-packet one-way delay: 4.361 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.75 Mbit/s
95th percentile per-packet one-way delay: 4.361 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesC5 — Data Link

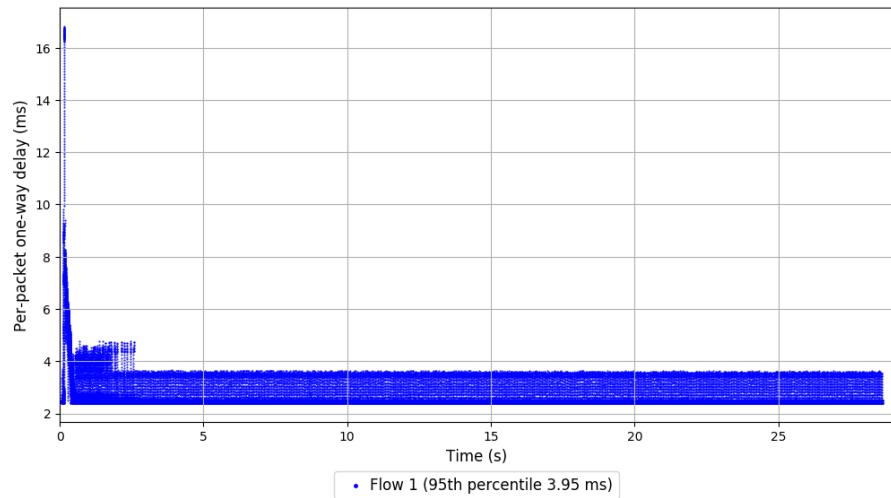
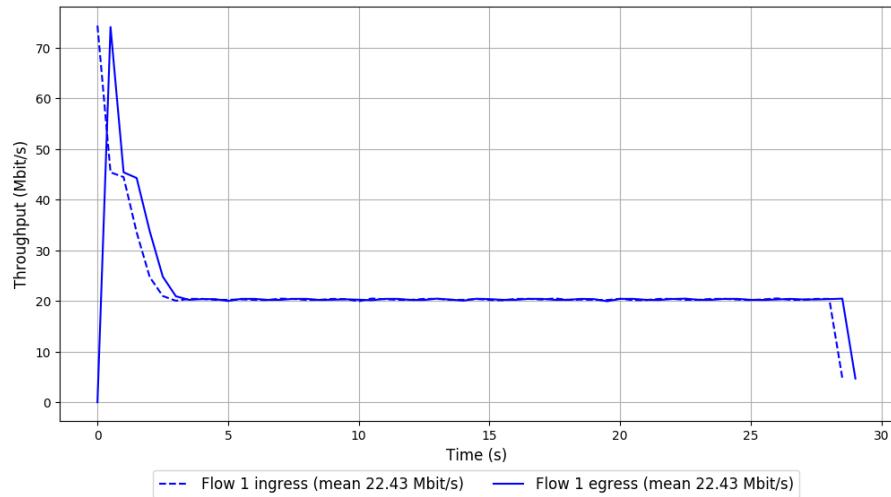


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 05:44:41
End at: 2019-01-19 05:45:11
Local clock offset: -0.692 ms
Remote clock offset: 0.685 ms

# Below is generated by plot.py at 2019-01-19 07:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.43 Mbit/s
95th percentile per-packet one-way delay: 3.952 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 22.43 Mbit/s
95th percentile per-packet one-way delay: 3.952 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesC5 — Data Link

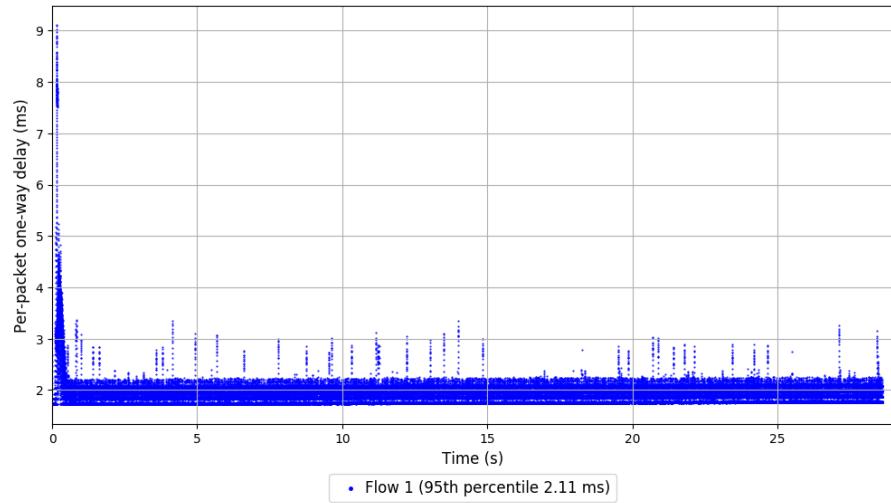
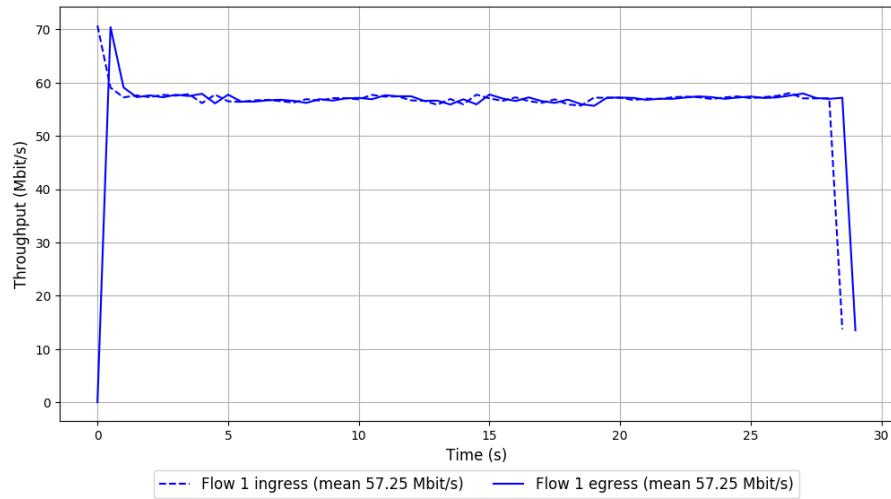


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 06:08:25
End at: 2019-01-19 06:08:55
Local clock offset: -7.32 ms
Remote clock offset: 0.847 ms

# Below is generated by plot.py at 2019-01-19 07:24:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.25 Mbit/s
95th percentile per-packet one-way delay: 2.113 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 57.25 Mbit/s
95th percentile per-packet one-way delay: 2.113 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesC5 — Data Link

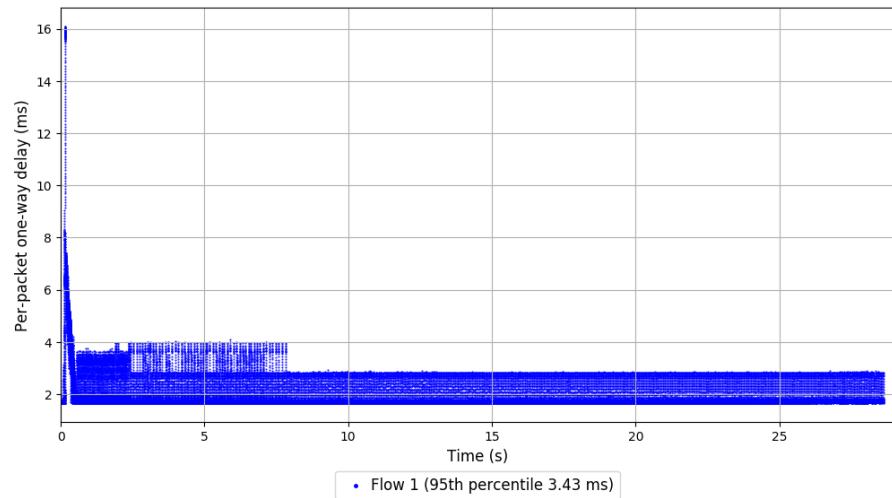
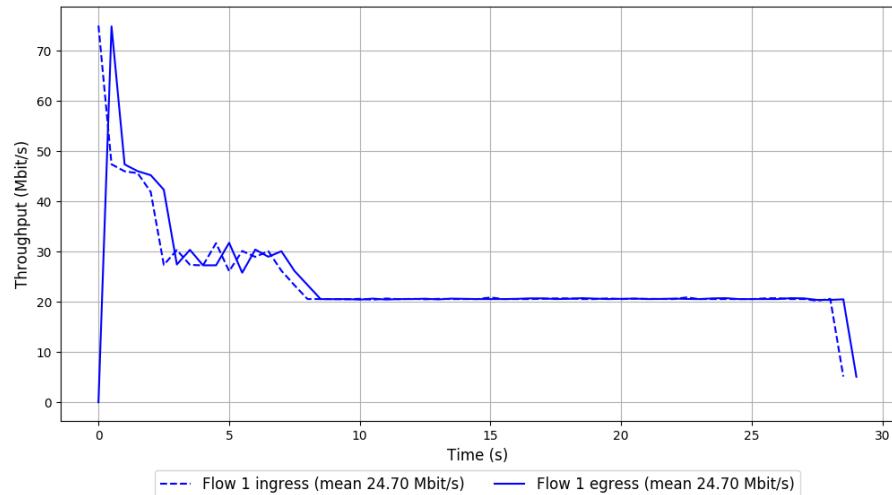


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 06:32:08
End at: 2019-01-19 06:32:38
Local clock offset: -8.147 ms
Remote clock offset: 1.012 ms

# Below is generated by plot.py at 2019-01-19 07:24:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 3.429 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 3.429 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC5 — Data Link

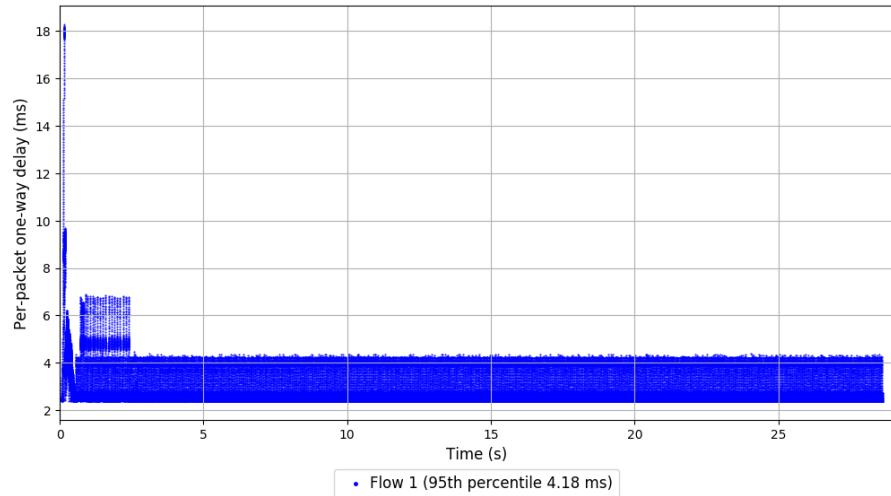
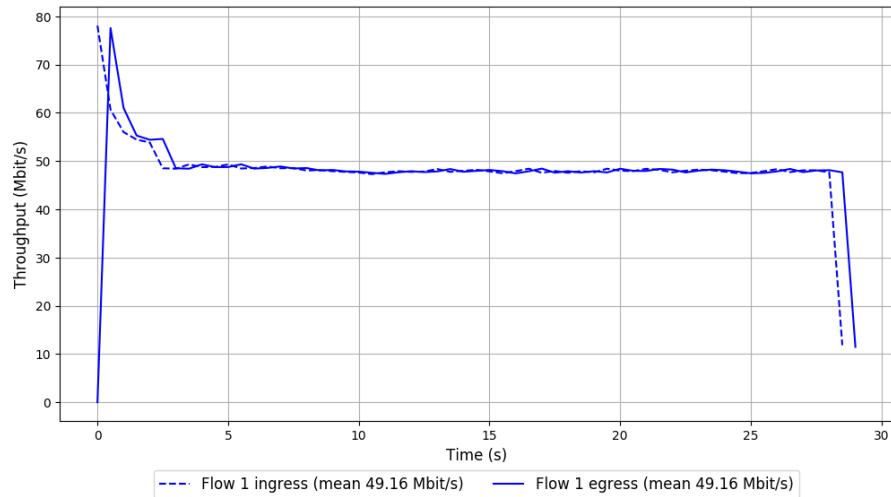


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 06:55:57
End at: 2019-01-19 06:56:27
Local clock offset: -7.295 ms
Remote clock offset: 1.14 ms

# Below is generated by plot.py at 2019-01-19 07:24:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.16 Mbit/s
95th percentile per-packet one-way delay: 4.182 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 49.16 Mbit/s
95th percentile per-packet one-way delay: 4.182 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesC5 — Data Link

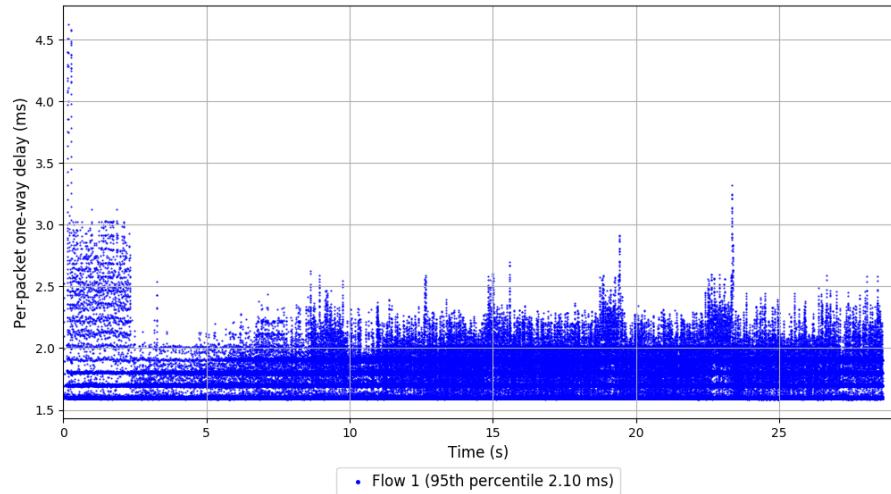
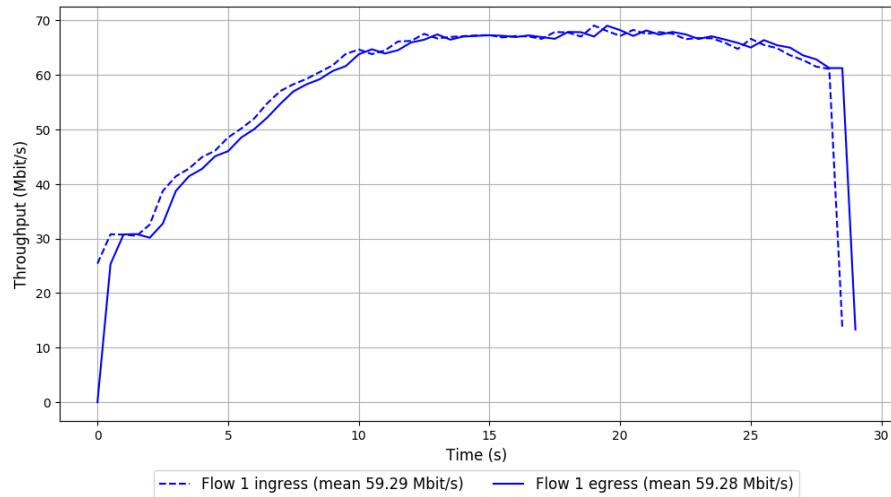


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-01-19 05:34:38
End at: 2019-01-19 05:35:08
Local clock offset: -1.668 ms
Remote clock offset: 0.574 ms

# Below is generated by plot.py at 2019-01-19 07:24:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.28 Mbit/s
95th percentile per-packet one-way delay: 2.101 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 59.28 Mbit/s
95th percentile per-packet one-way delay: 2.101 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesD — Data Link

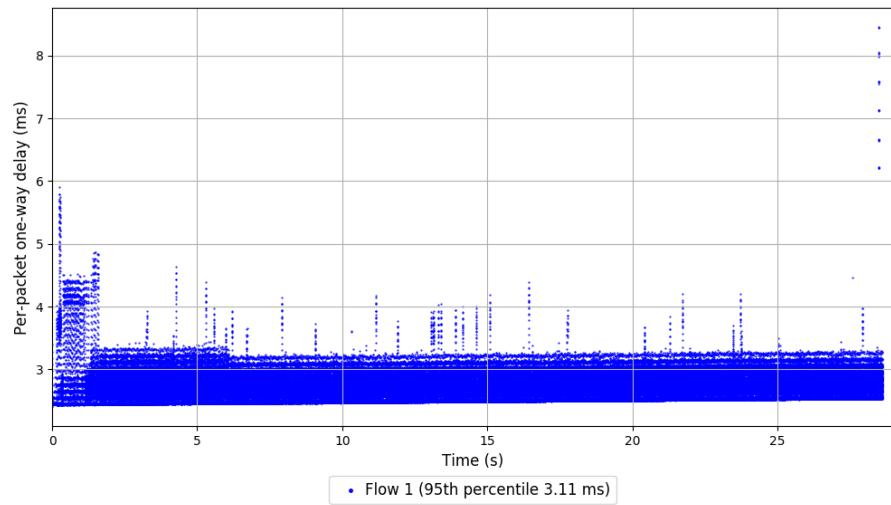
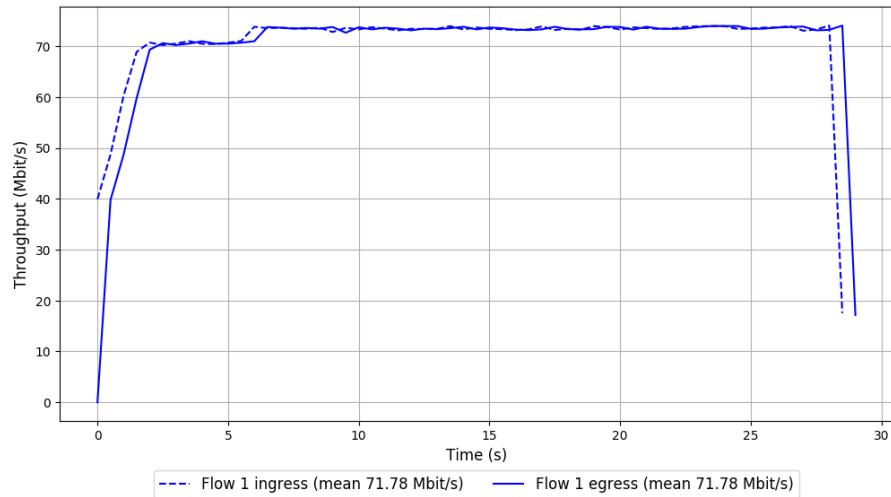


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 05:58:22
End at: 2019-01-19 05:58:52
Local clock offset: -5.11 ms
Remote clock offset: 0.884 ms

# Below is generated by plot.py at 2019-01-19 07:25:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.78 Mbit/s
95th percentile per-packet one-way delay: 3.106 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 71.78 Mbit/s
95th percentile per-packet one-way delay: 3.106 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesD — Data Link

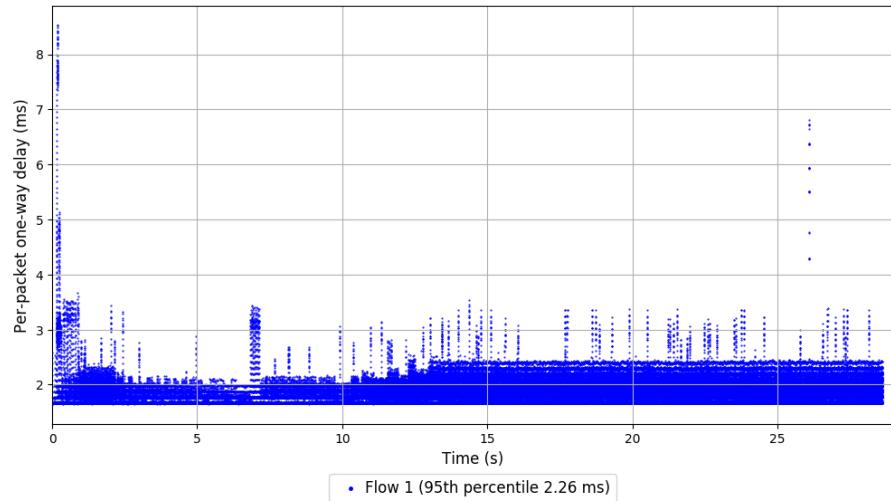
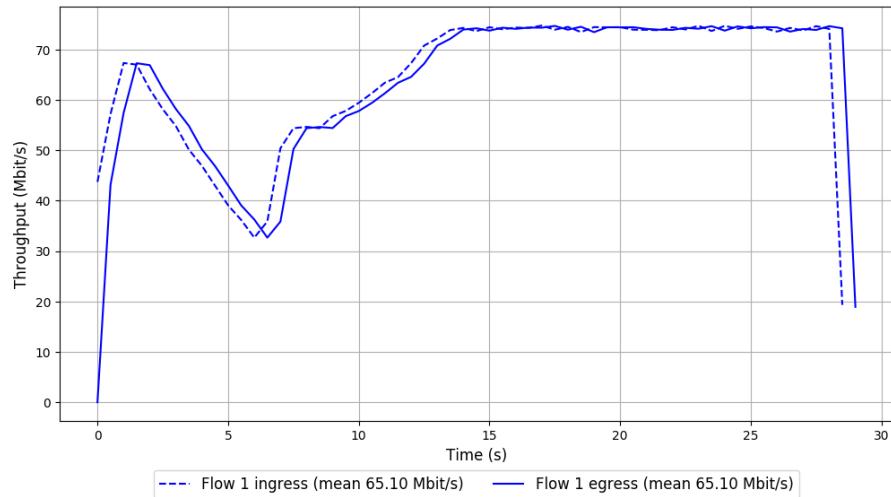


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 06:22:05
End at: 2019-01-19 06:22:35
Local clock offset: -7.937 ms
Remote clock offset: 0.944 ms

# Below is generated by plot.py at 2019-01-19 07:25:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.10 Mbit/s
95th percentile per-packet one-way delay: 2.261 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 65.10 Mbit/s
95th percentile per-packet one-way delay: 2.261 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesD — Data Link

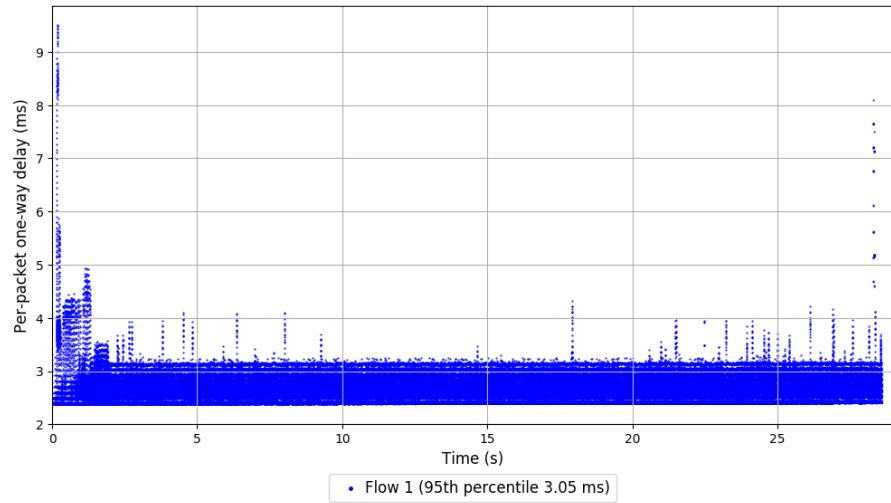
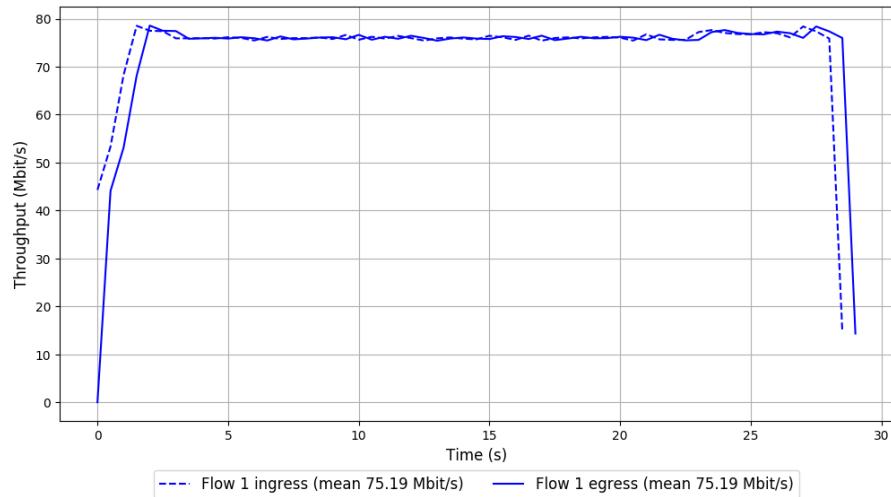


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 06:45:49
End at: 2019-01-19 06:46:19
Local clock offset: -7.941 ms
Remote clock offset: 1.073 ms

# Below is generated by plot.py at 2019-01-19 07:25:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.19 Mbit/s
95th percentile per-packet one-way delay: 3.053 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 75.19 Mbit/s
95th percentile per-packet one-way delay: 3.053 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesD — Data Link

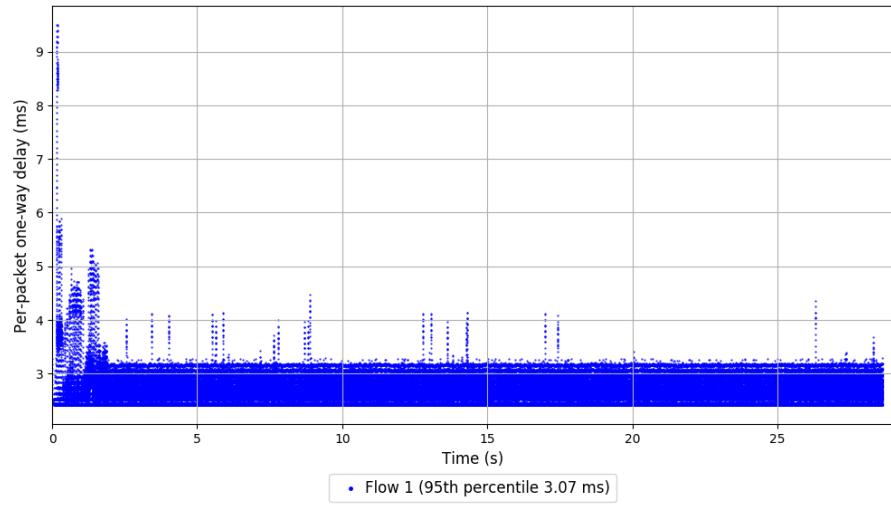
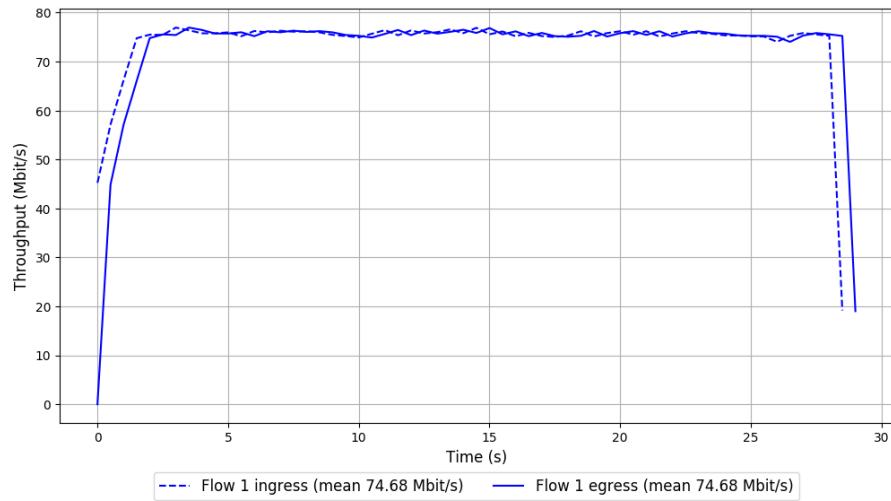


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 07:09:35
End at: 2019-01-19 07:10:05
Local clock offset: -7.177 ms
Remote clock offset: 1.131 ms

# Below is generated by plot.py at 2019-01-19 07:25:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.68 Mbit/s
95th percentile per-packet one-way delay: 3.071 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 74.68 Mbit/s
95th percentile per-packet one-way delay: 3.071 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesD — Data Link

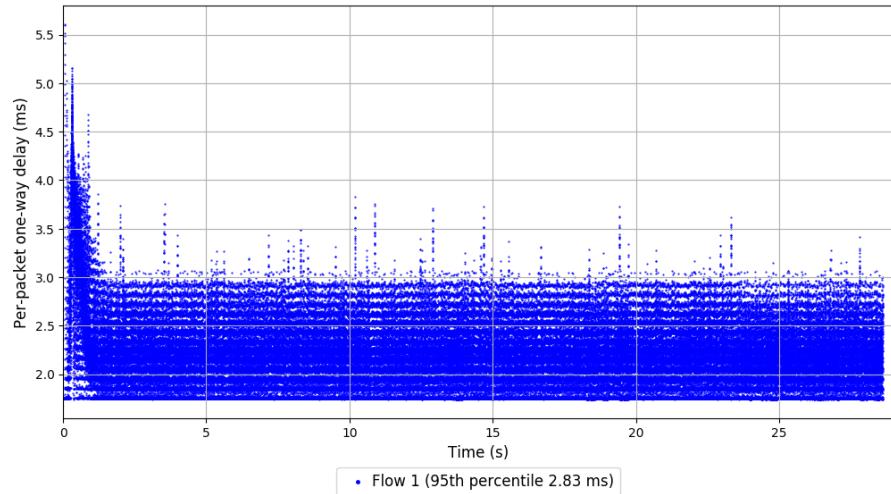
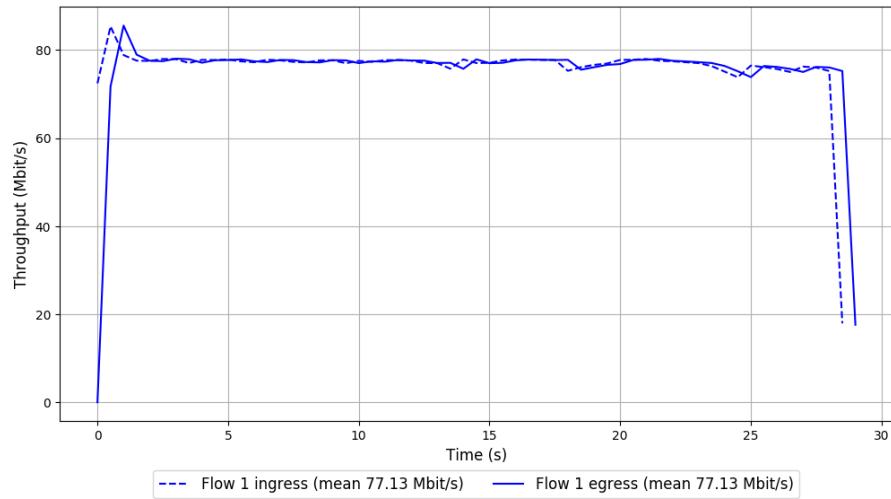


```
Run 1: Statistics of Indigo-MusesT
```

```
Start at: 2019-01-19 05:37:57
End at: 2019-01-19 05:38:27
Local clock offset: -1.589 ms
Remote clock offset: 0.481 ms

# Below is generated by plot.py at 2019-01-19 07:25:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.13 Mbit/s
95th percentile per-packet one-way delay: 2.825 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 77.13 Mbit/s
95th percentile per-packet one-way delay: 2.825 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesT — Data Link

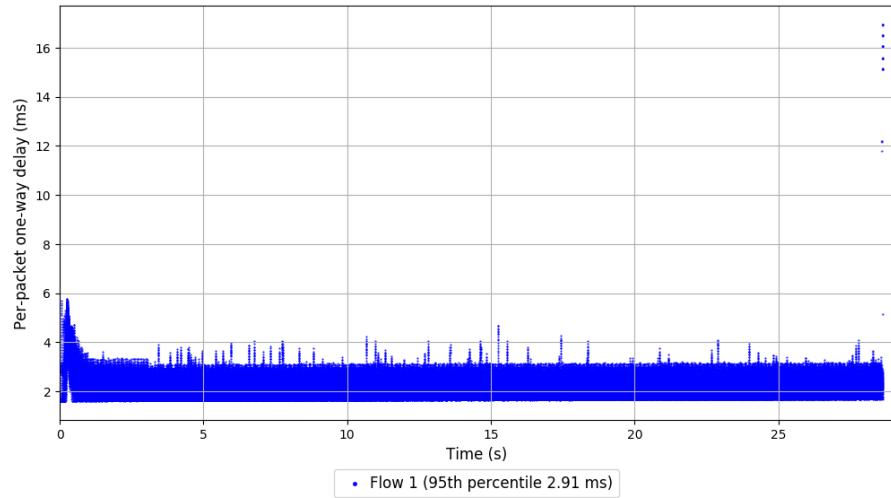
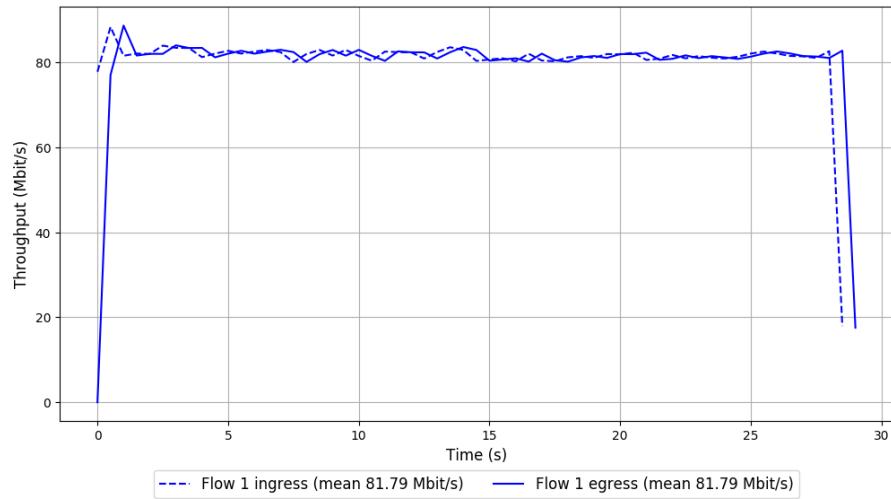


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 06:01:41
End at: 2019-01-19 06:02:11
Local clock offset: -6.541 ms
Remote clock offset: 0.889 ms

# Below is generated by plot.py at 2019-01-19 07:25:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.79 Mbit/s
95th percentile per-packet one-way delay: 2.906 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 81.79 Mbit/s
95th percentile per-packet one-way delay: 2.906 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesT — Data Link

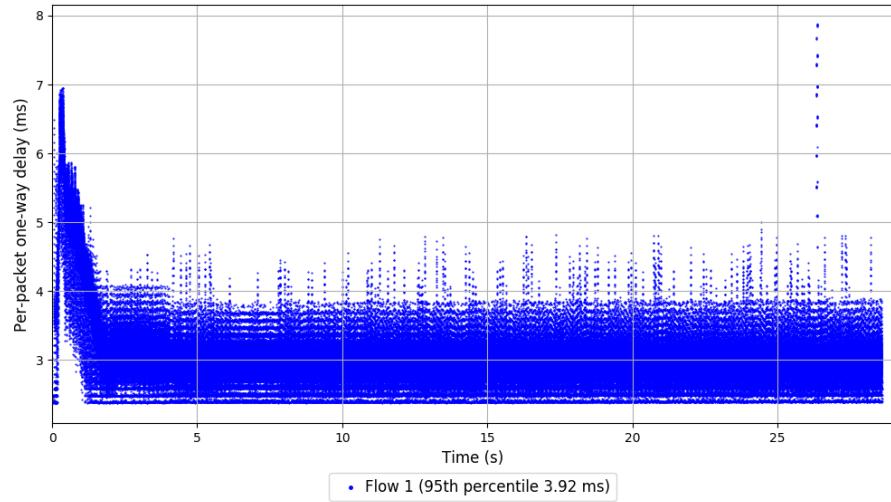
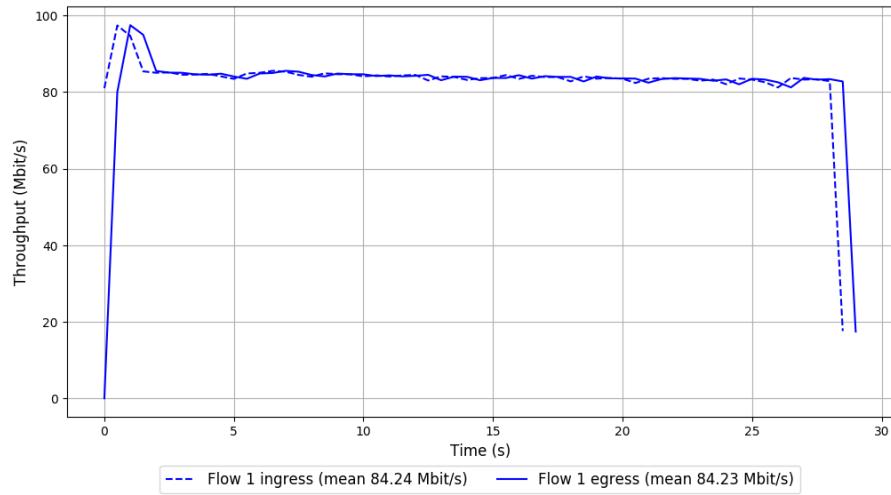


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 06:25:24
End at: 2019-01-19 06:25:54
Local clock offset: -7.286 ms
Remote clock offset: 0.938 ms

# Below is generated by plot.py at 2019-01-19 07:25:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.23 Mbit/s
95th percentile per-packet one-way delay: 3.918 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 84.23 Mbit/s
95th percentile per-packet one-way delay: 3.918 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesT — Data Link

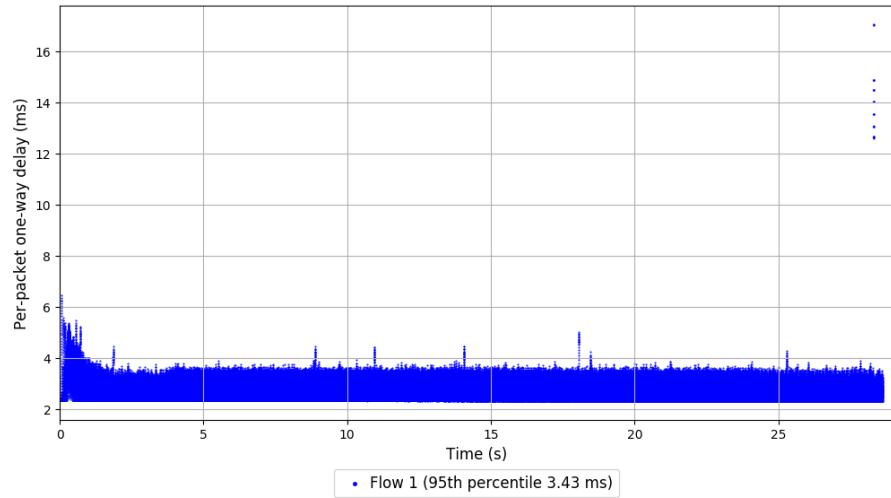
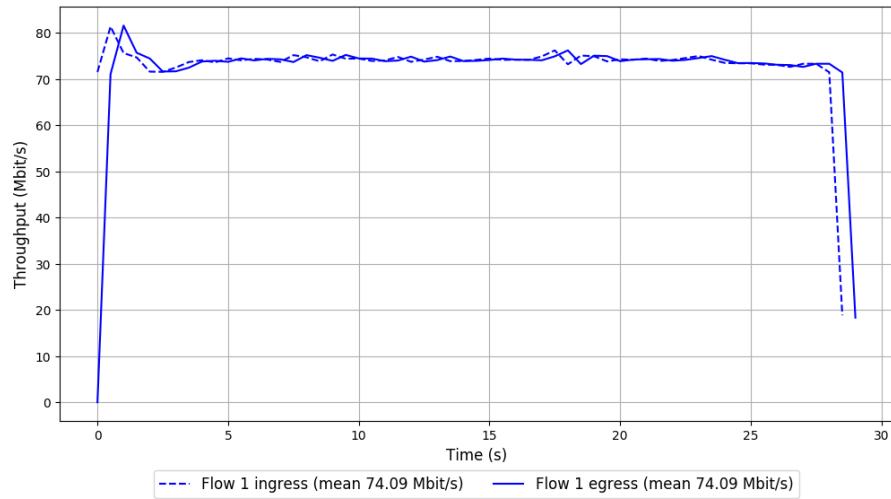


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 06:49:08
End at: 2019-01-19 06:49:38
Local clock offset: -7.671 ms
Remote clock offset: 1.126 ms

# Below is generated by plot.py at 2019-01-19 07:25:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.09 Mbit/s
95th percentile per-packet one-way delay: 3.426 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 74.09 Mbit/s
95th percentile per-packet one-way delay: 3.426 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesT — Data Link

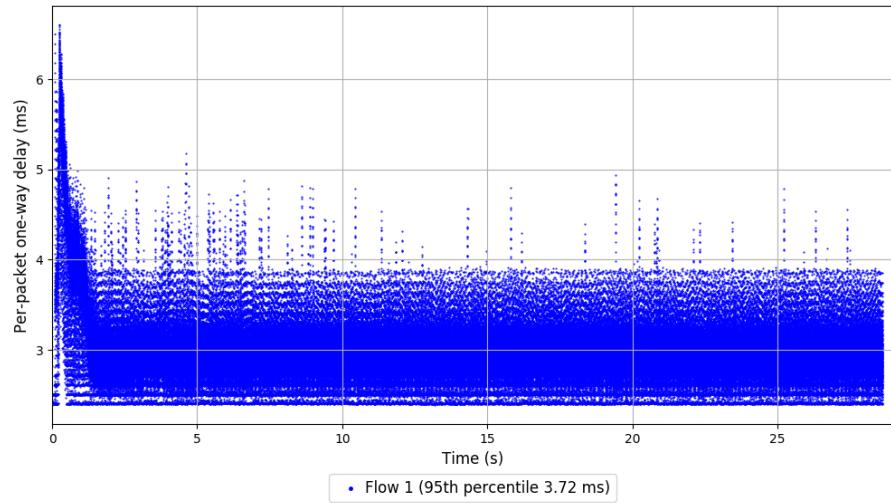
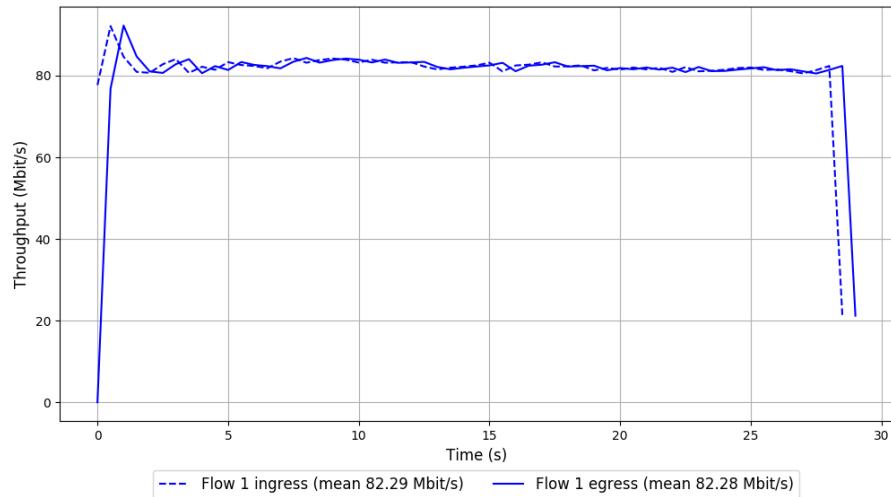


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 07:12:55
End at: 2019-01-19 07:13:25
Local clock offset: -7.214 ms
Remote clock offset: 1.117 ms

# Below is generated by plot.py at 2019-01-19 07:25:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.28 Mbit/s
95th percentile per-packet one-way delay: 3.723 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 82.28 Mbit/s
95th percentile per-packet one-way delay: 3.723 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesT — Data Link

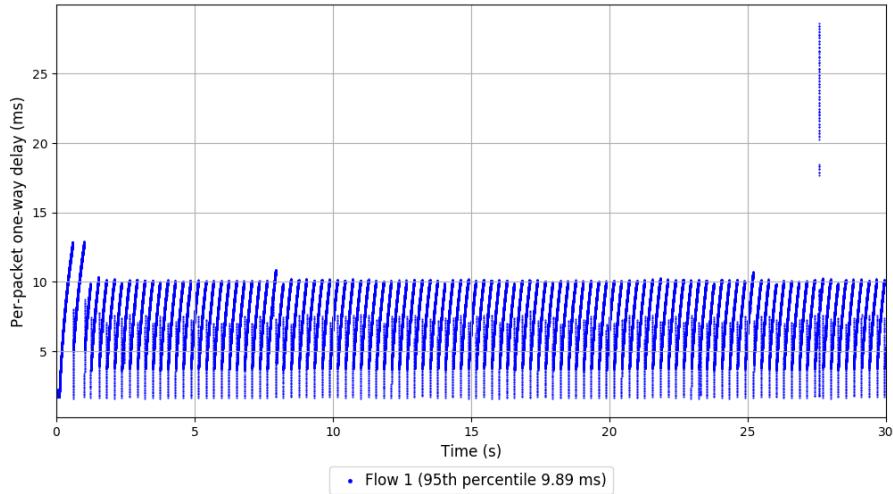
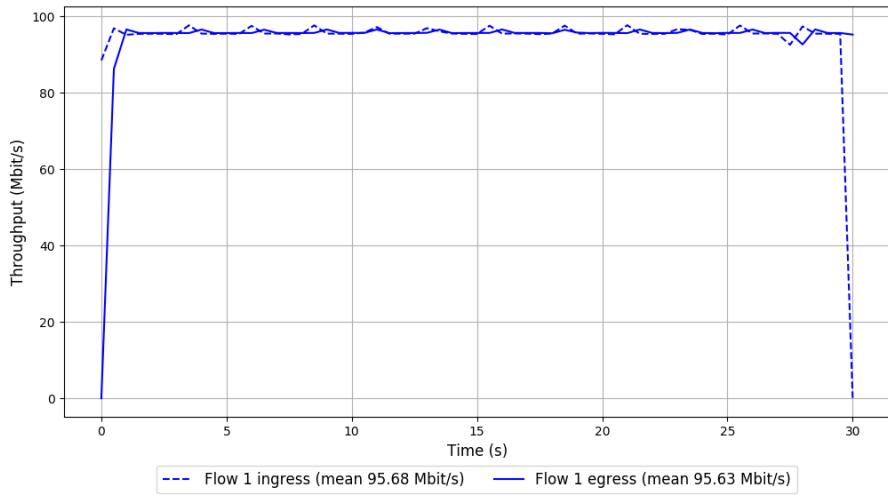


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-19 05:41:20
End at: 2019-01-19 05:41:50
Local clock offset: -1.519 ms
Remote clock offset: 0.572 ms

# Below is generated by plot.py at 2019-01-19 07:26:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 9.886 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 9.886 ms
Loss rate: 0.07%
```

Run 1: Report of LEDBAT — Data Link

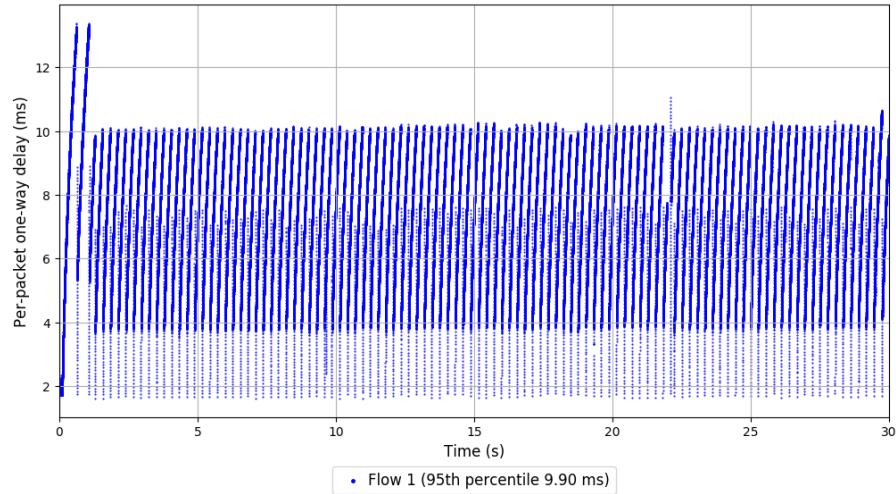
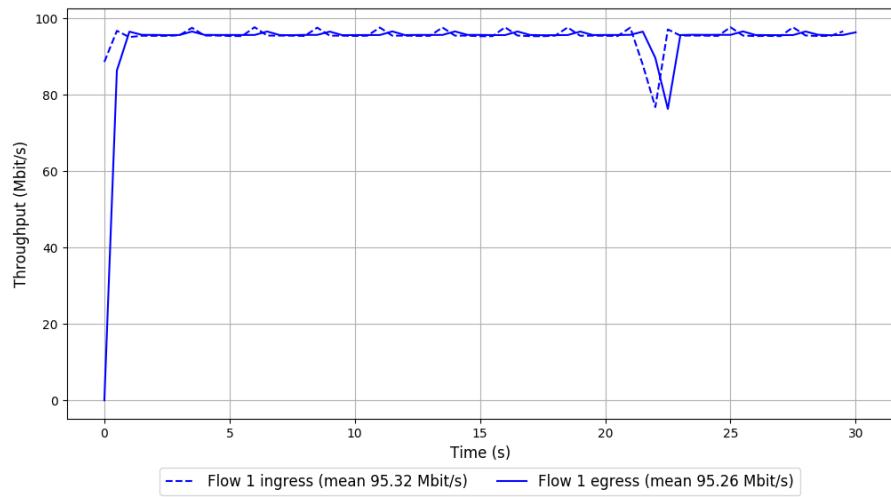


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-19 06:05:04
End at: 2019-01-19 06:05:34
Local clock offset: -6.927 ms
Remote clock offset: 0.855 ms

# Below is generated by plot.py at 2019-01-19 07:26:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 9.904 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 9.904 ms
Loss rate: 0.07%
```

Run 2: Report of LEDBAT — Data Link

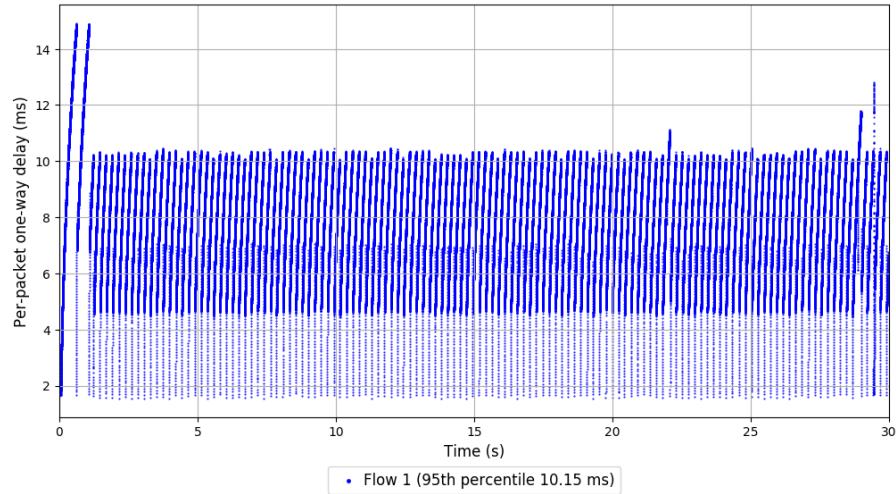
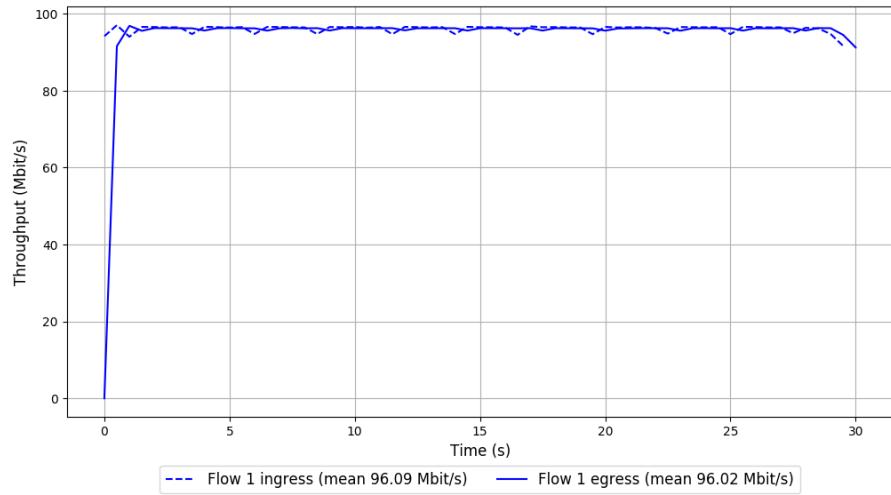


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-19 06:28:47
End at: 2019-01-19 06:29:17
Local clock offset: -8.068 ms
Remote clock offset: 0.957 ms

# Below is generated by plot.py at 2019-01-19 07:26:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 10.150 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 10.150 ms
Loss rate: 0.08%
```

Run 3: Report of LEDBAT — Data Link

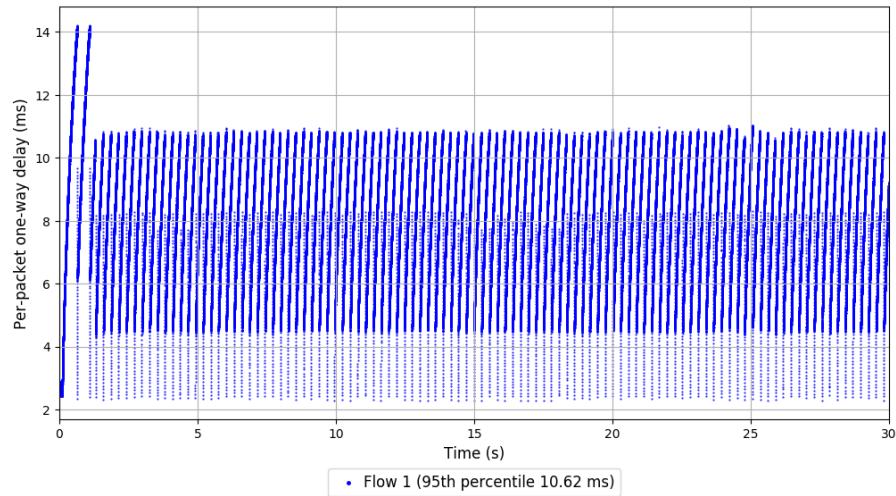
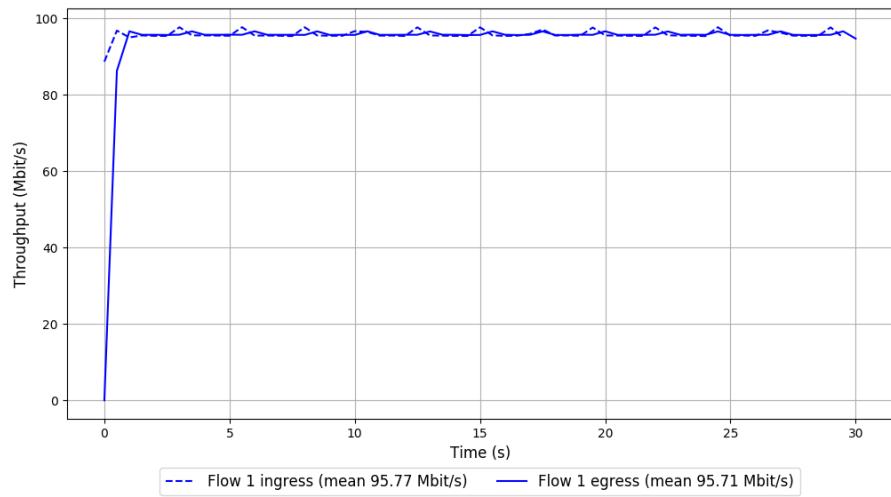


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-19 06:52:31
End at: 2019-01-19 06:53:01
Local clock offset: -7.417 ms
Remote clock offset: 1.115 ms

# Below is generated by plot.py at 2019-01-19 07:26:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 10.616 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 10.616 ms
Loss rate: 0.08%
```

Run 4: Report of LEDBAT — Data Link

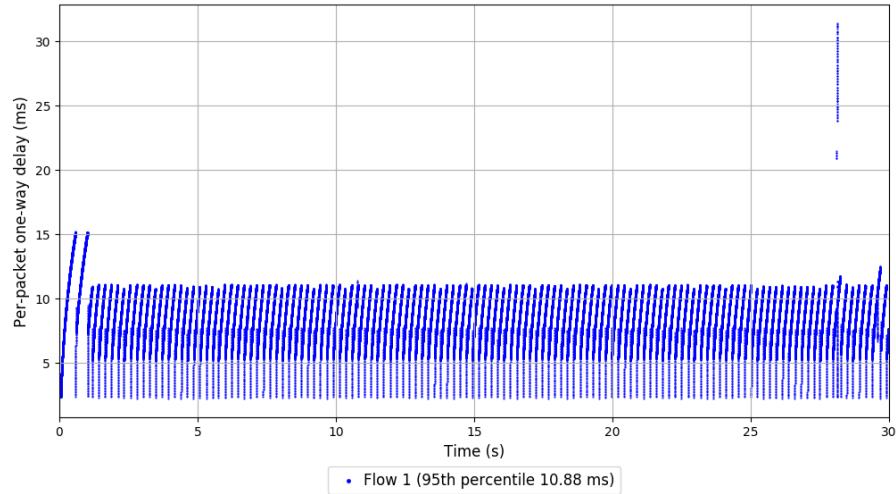
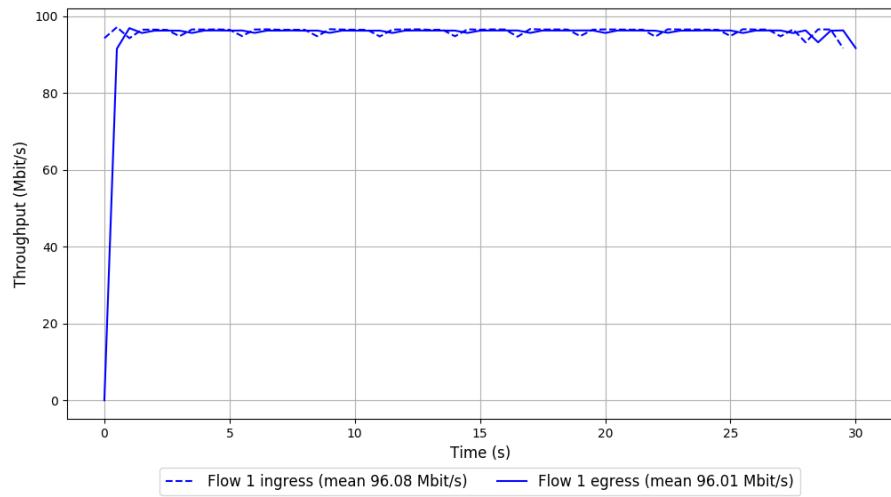


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-19 07:16:18
End at: 2019-01-19 07:16:48
Local clock offset: -7.333 ms
Remote clock offset: 1.045 ms

# Below is generated by plot.py at 2019-01-19 07:26:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 10.875 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 10.875 ms
Loss rate: 0.08%
```

Run 5: Report of LEDBAT — Data Link

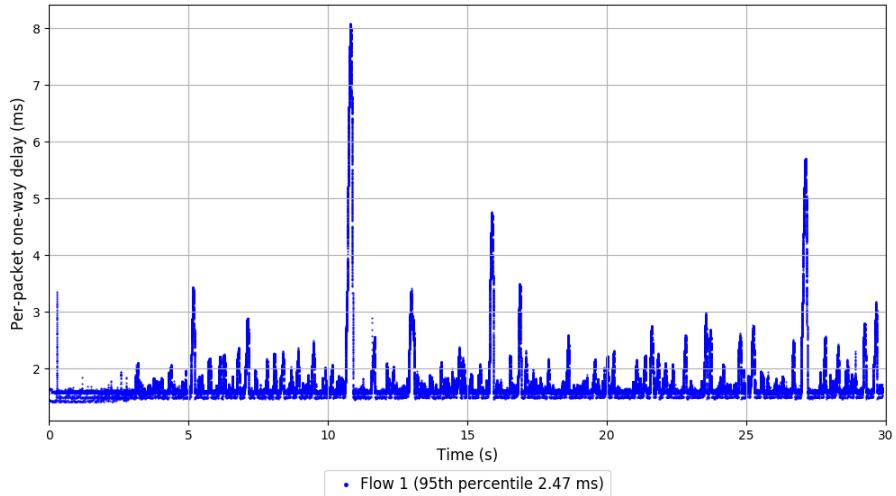
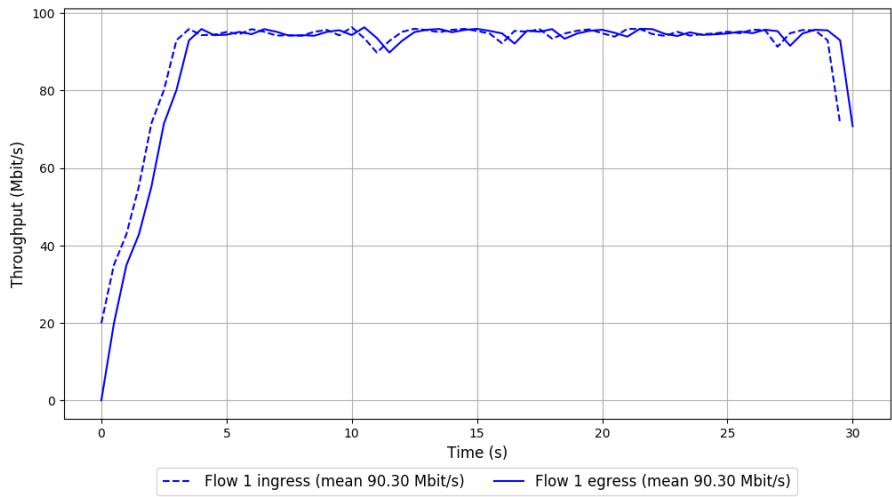


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-19 05:27:46
End at: 2019-01-19 05:28:16
Local clock offset: -1.731 ms
Remote clock offset: 0.458 ms

# Below is generated by plot.py at 2019-01-19 07:26:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.30 Mbit/s
95th percentile per-packet one-way delay: 2.468 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.30 Mbit/s
95th percentile per-packet one-way delay: 2.468 ms
Loss rate: 0.02%
```

Run 1: Report of PCC-Allegro — Data Link

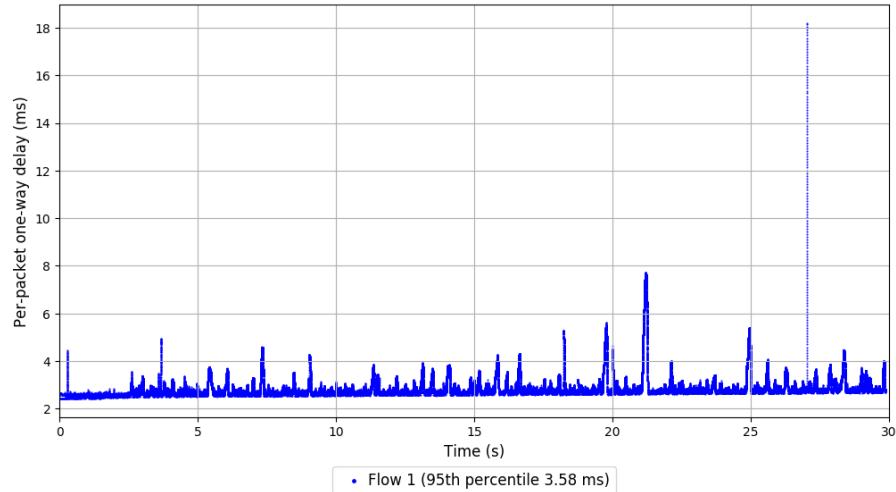
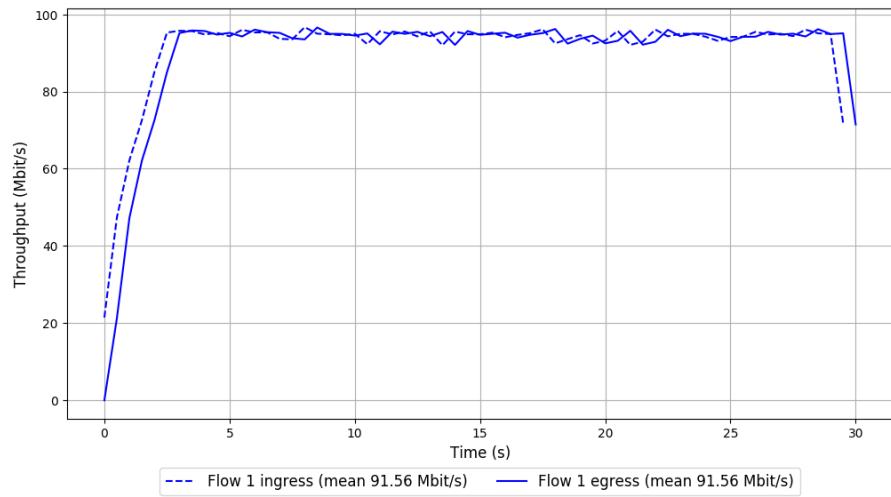


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-19 05:51:29
End at: 2019-01-19 05:51:59
Local clock offset: -3.089 ms
Remote clock offset: 0.721 ms

# Below is generated by plot.py at 2019-01-19 07:26:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.56 Mbit/s
95th percentile per-packet one-way delay: 3.582 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 91.56 Mbit/s
95th percentile per-packet one-way delay: 3.582 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Allegro — Data Link

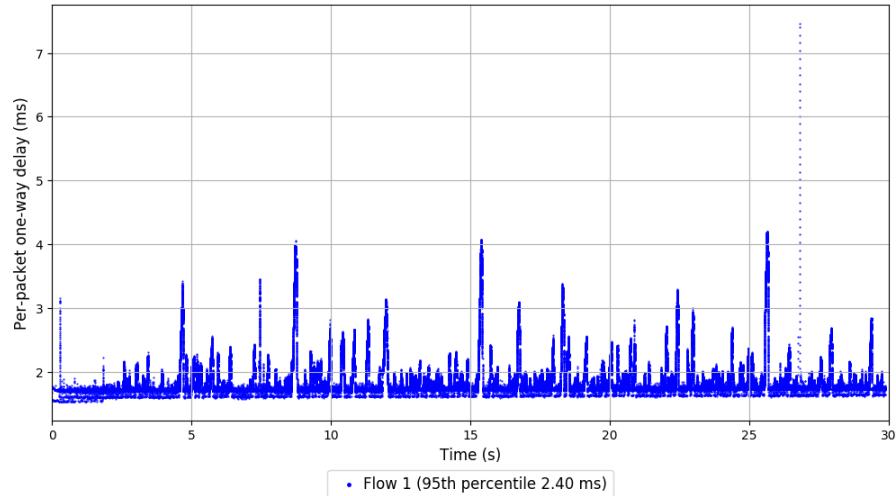
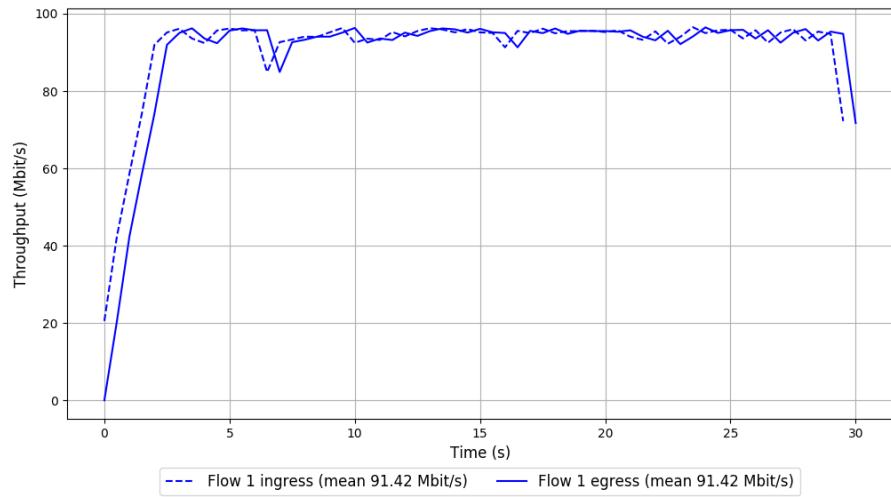


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-19 06:15:12
End at: 2019-01-19 06:15:42
Local clock offset: -7.843 ms
Remote clock offset: 0.917 ms

# Below is generated by plot.py at 2019-01-19 07:27:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.42 Mbit/s
95th percentile per-packet one-way delay: 2.405 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.42 Mbit/s
95th percentile per-packet one-way delay: 2.405 ms
Loss rate: 0.02%
```

Run 3: Report of PCC-Allegro — Data Link

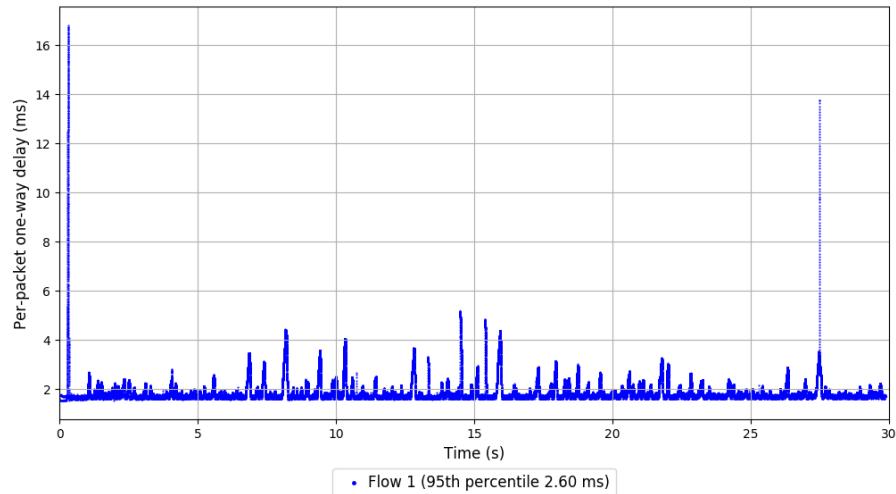
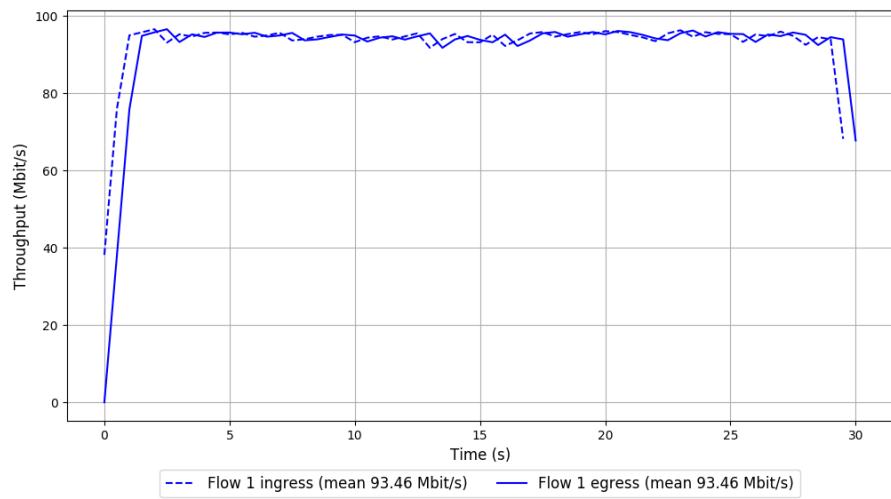


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-19 06:38:57
End at: 2019-01-19 06:39:27
Local clock offset: -8.38 ms
Remote clock offset: 1.023 ms

# Below is generated by plot.py at 2019-01-19 07:27:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 2.602 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 2.602 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Allegro — Data Link

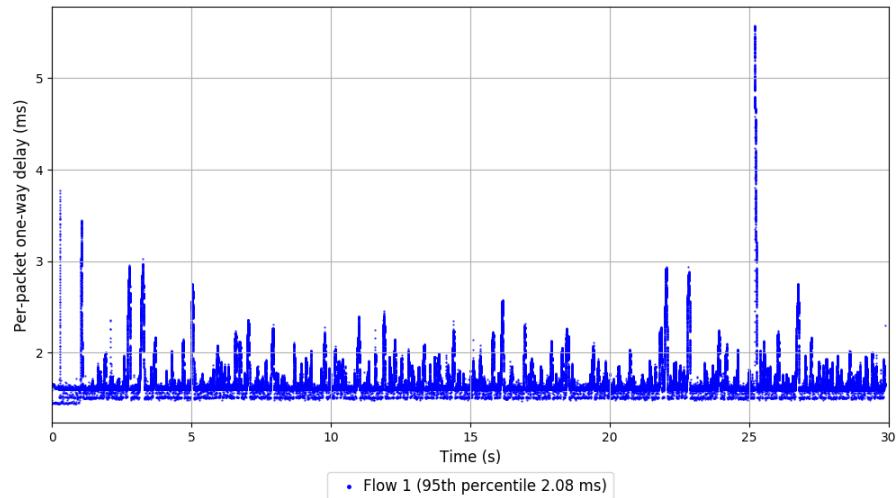
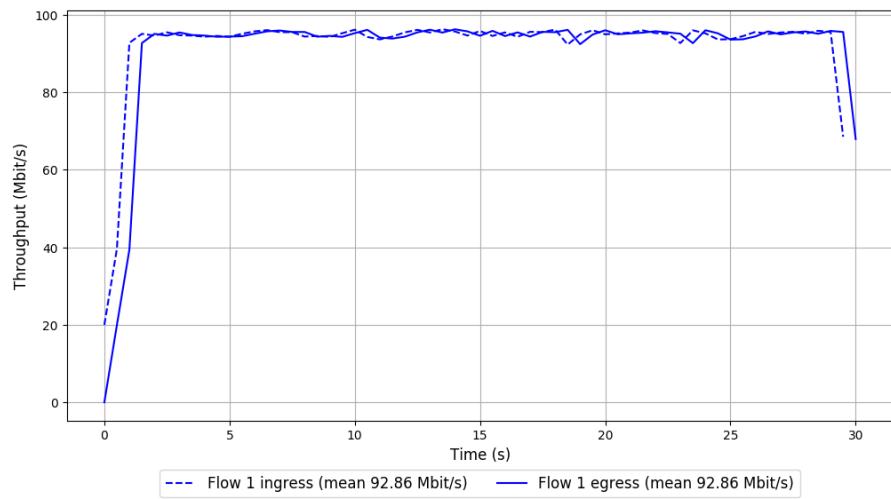


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-19 07:02:47
End at: 2019-01-19 07:03:17
Local clock offset: -8.002 ms
Remote clock offset: 1.106 ms

# Below is generated by plot.py at 2019-01-19 07:27:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.86 Mbit/s
95th percentile per-packet one-way delay: 2.081 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 92.86 Mbit/s
95th percentile per-packet one-way delay: 2.081 ms
Loss rate: 0.02%
```

Run 5: Report of PCC-Allegro — Data Link

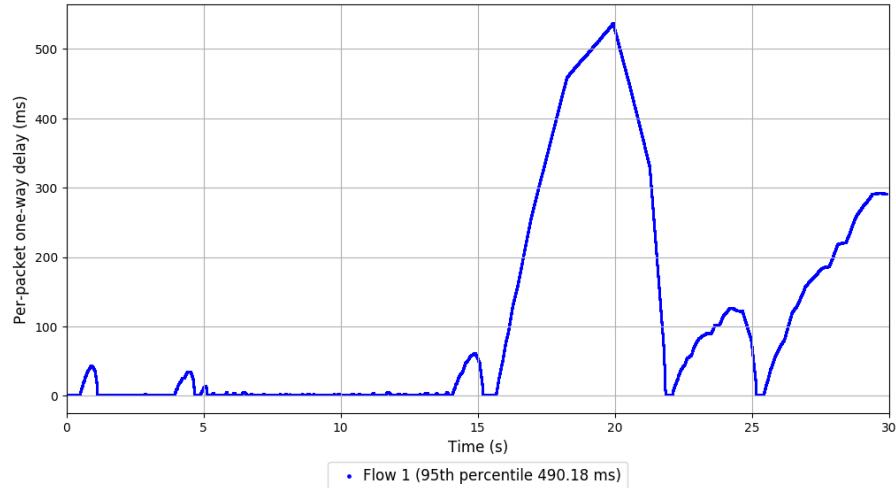
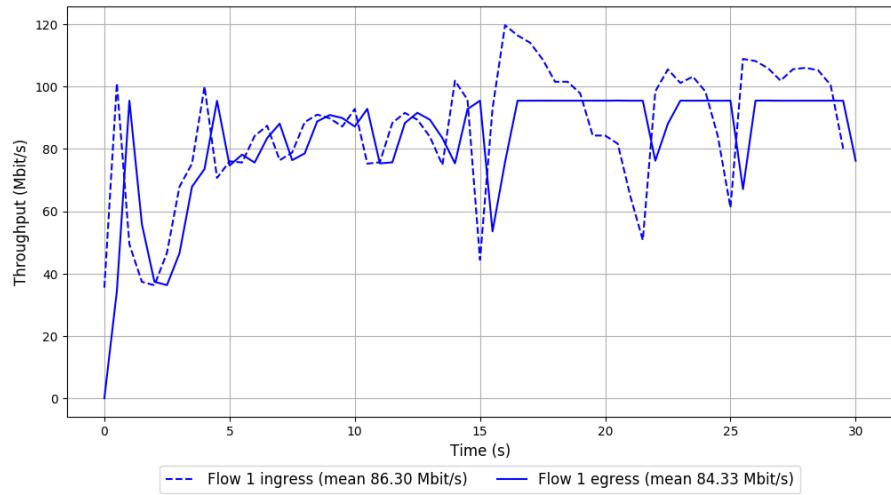


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-19 05:25:28
End at: 2019-01-19 05:25:58
Local clock offset: -1.704 ms
Remote clock offset: 0.339 ms

# Below is generated by plot.py at 2019-01-19 07:28:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.33 Mbit/s
95th percentile per-packet one-way delay: 490.176 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 84.33 Mbit/s
95th percentile per-packet one-way delay: 490.176 ms
Loss rate: 2.30%
```

Run 1: Report of PCC-Expr — Data Link

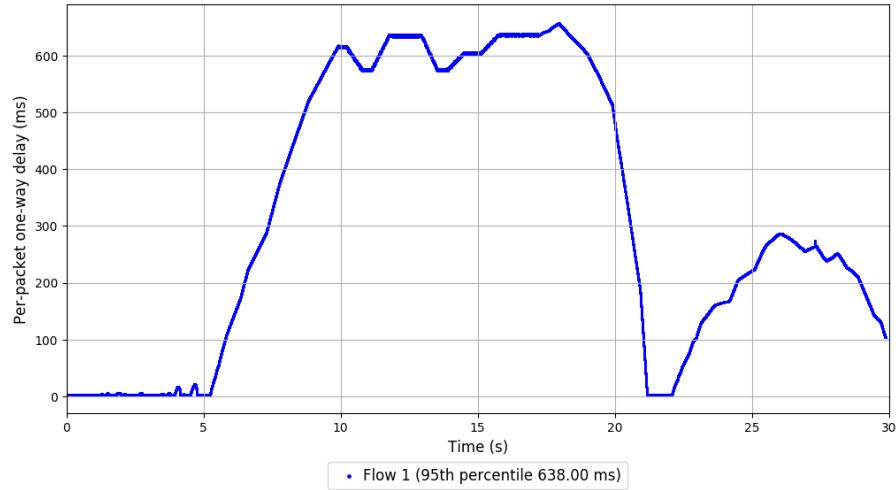
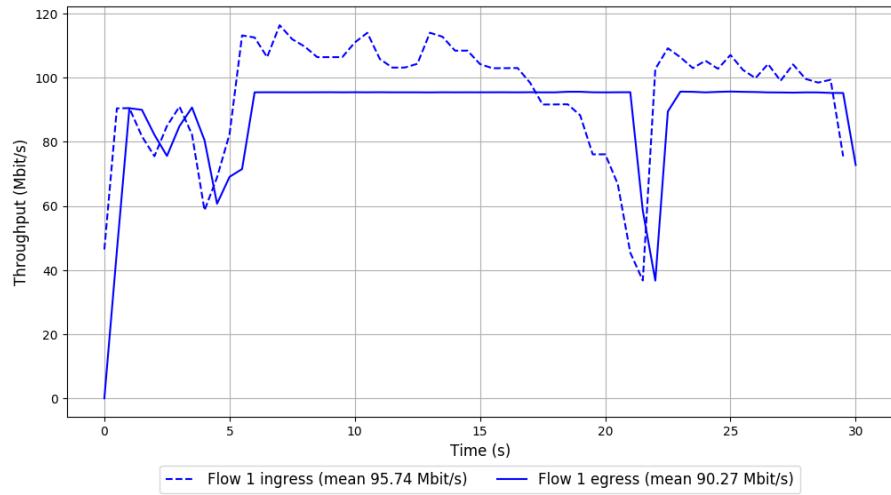


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-19 05:49:11
End at: 2019-01-19 05:49:41
Local clock offset: -1.882 ms
Remote clock offset: 0.638 ms

# Below is generated by plot.py at 2019-01-19 07:28:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.27 Mbit/s
95th percentile per-packet one-way delay: 637.995 ms
Loss rate: 5.73%
-- Flow 1:
Average throughput: 90.27 Mbit/s
95th percentile per-packet one-way delay: 637.995 ms
Loss rate: 5.73%
```

Run 2: Report of PCC-Expr — Data Link

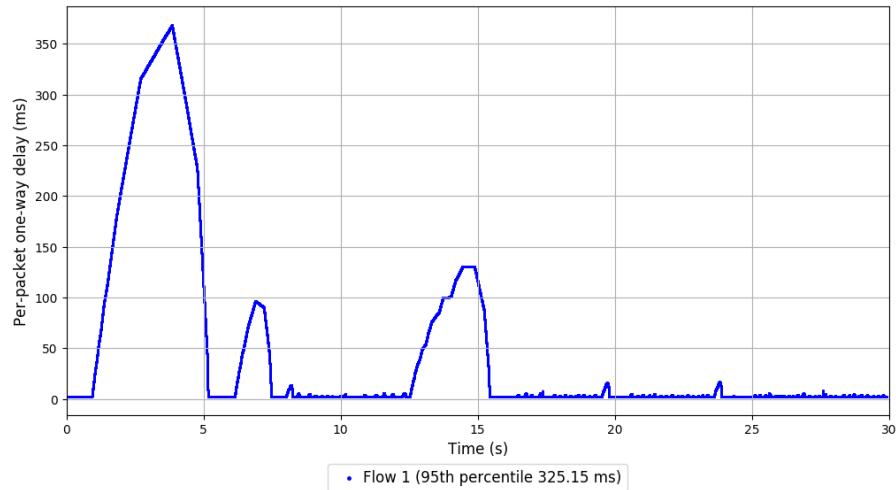
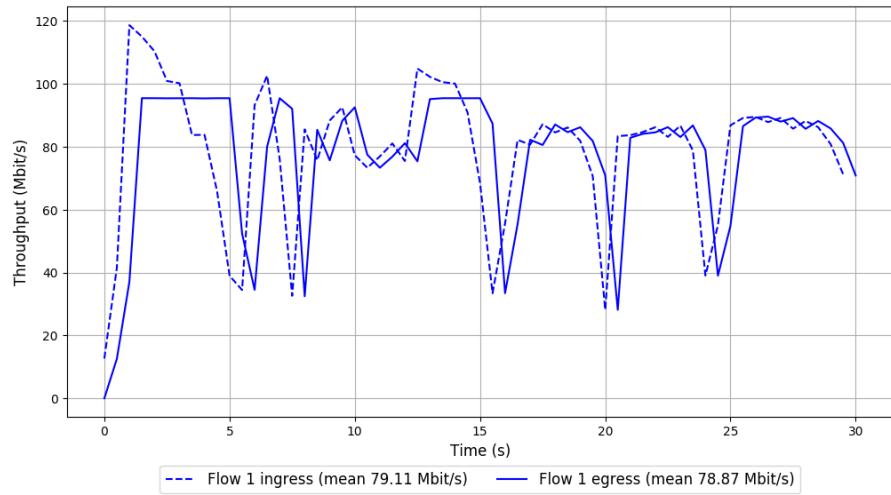


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-19 06:12:55
End at: 2019-01-19 06:13:25
Local clock offset: -6.967 ms
Remote clock offset: 0.878 ms

# Below is generated by plot.py at 2019-01-19 07:28:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.87 Mbit/s
95th percentile per-packet one-way delay: 325.154 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 78.87 Mbit/s
95th percentile per-packet one-way delay: 325.154 ms
Loss rate: 0.31%
```

Run 3: Report of PCC-Expr — Data Link

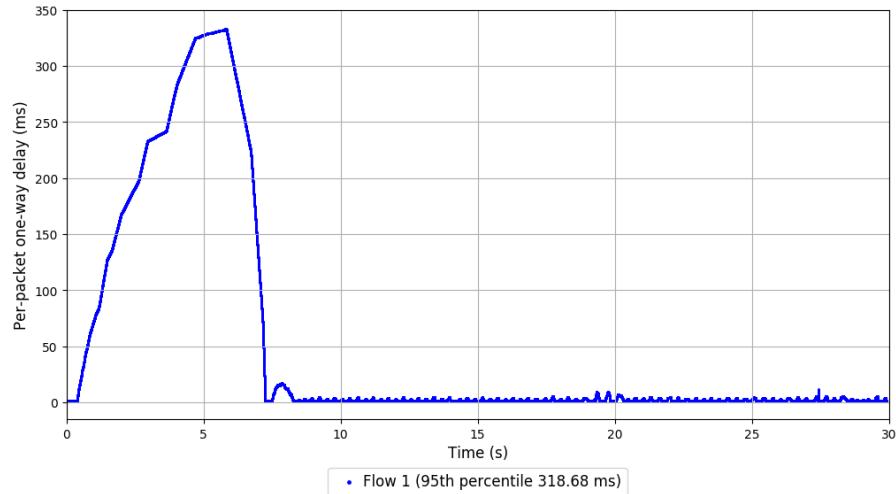
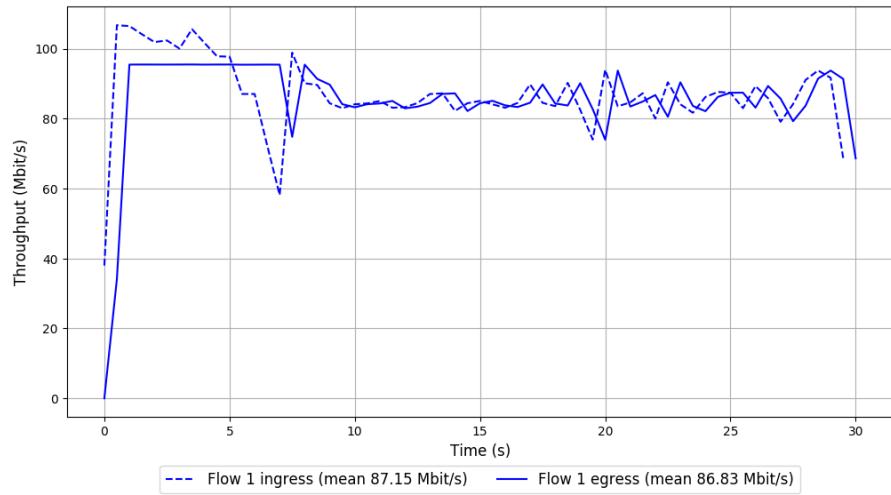


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-19 06:36:39
End at: 2019-01-19 06:37:09
Local clock offset: -8.285 ms
Remote clock offset: 1.076 ms

# Below is generated by plot.py at 2019-01-19 07:28:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.83 Mbit/s
95th percentile per-packet one-way delay: 318.675 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 86.83 Mbit/s
95th percentile per-packet one-way delay: 318.675 ms
Loss rate: 0.38%
```

Run 4: Report of PCC-Expr — Data Link

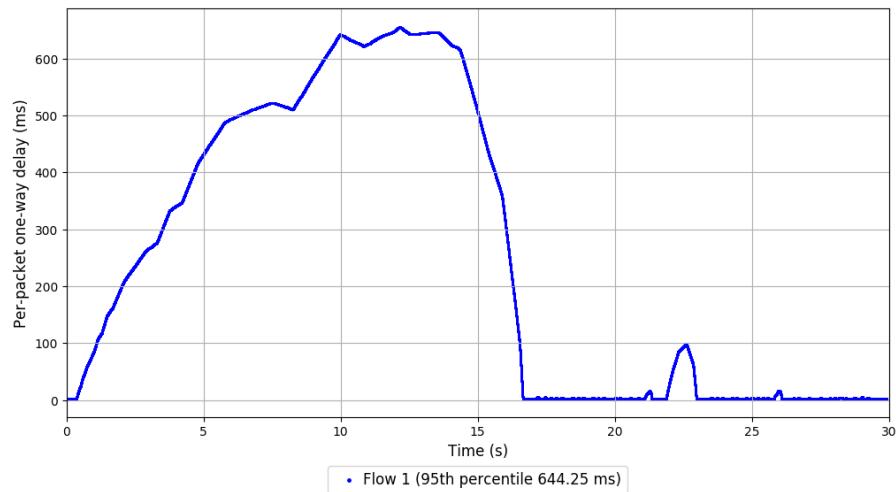
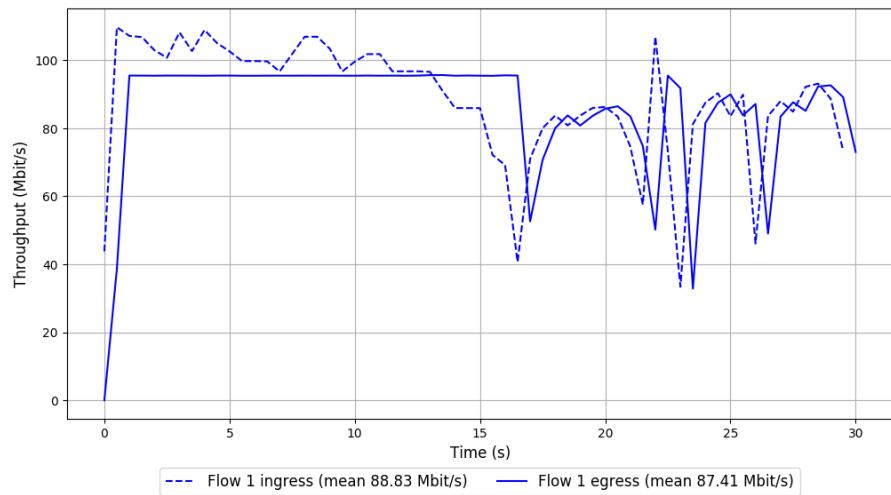


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-19 07:00:29
End at: 2019-01-19 07:00:59
Local clock offset: -7.168 ms
Remote clock offset: 1.078 ms

# Below is generated by plot.py at 2019-01-19 07:28:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.41 Mbit/s
95th percentile per-packet one-way delay: 644.254 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 87.41 Mbit/s
95th percentile per-packet one-way delay: 644.254 ms
Loss rate: 1.61%
```

Run 5: Report of PCC-Expr — Data Link

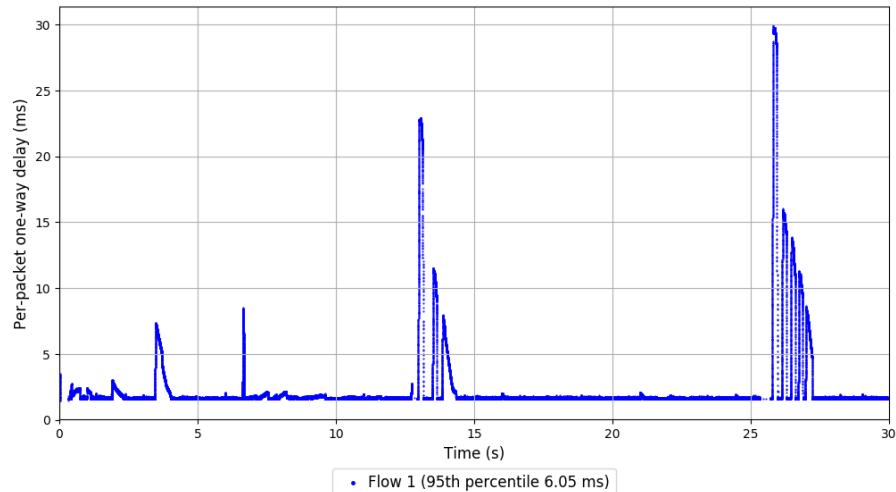
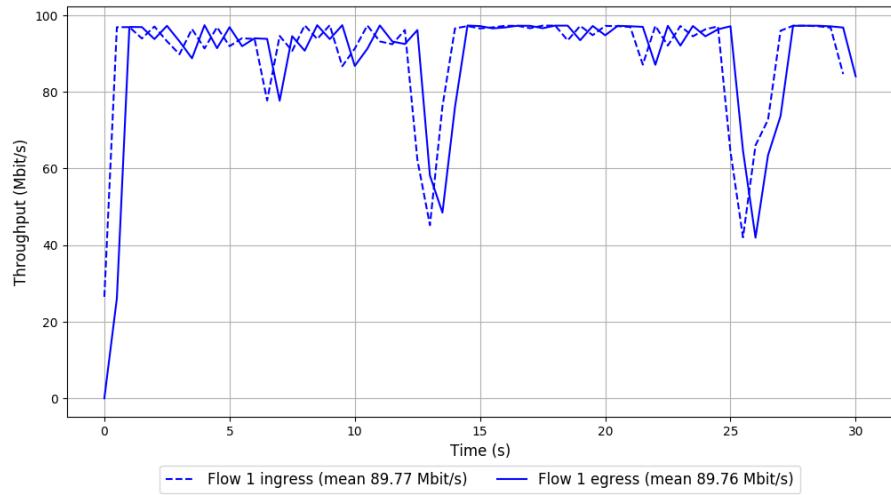


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-01-19 05:36:49
End at: 2019-01-19 05:37:19
Local clock offset: -1.622 ms
Remote clock offset: 0.609 ms

# Below is generated by plot.py at 2019-01-19 07:28:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 6.053 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 6.053 ms
Loss rate: 0.02%
```

Run 1: Report of QUIC Cubic — Data Link

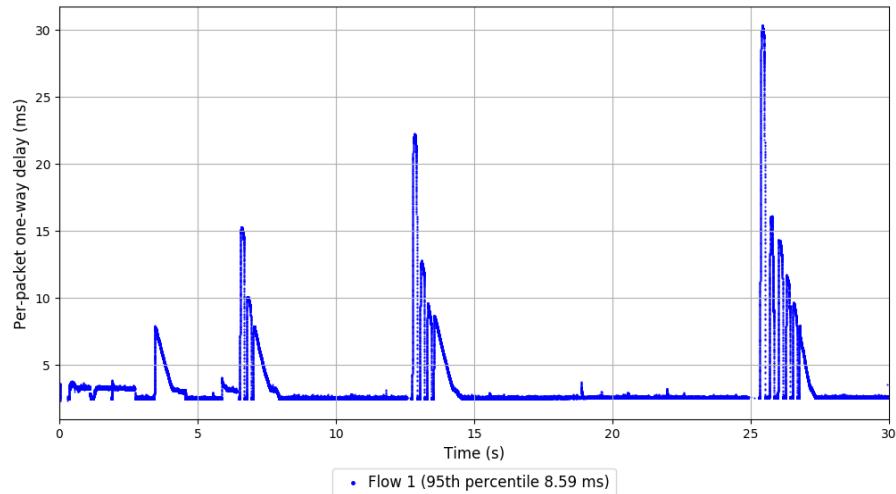
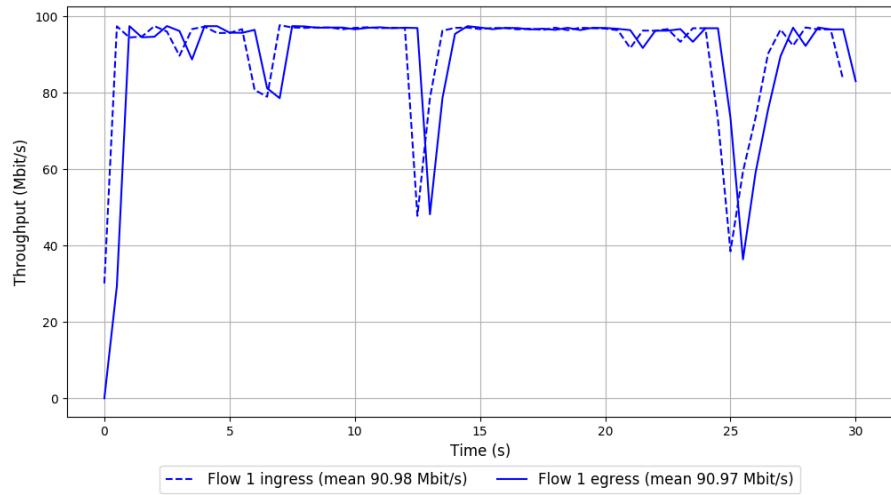


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-19 06:00:33
End at: 2019-01-19 06:01:03
Local clock offset: -5.538 ms
Remote clock offset: 0.828 ms

# Below is generated by plot.py at 2019-01-19 07:28:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.97 Mbit/s
95th percentile per-packet one-way delay: 8.593 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.97 Mbit/s
95th percentile per-packet one-way delay: 8.593 ms
Loss rate: 0.02%
```

Run 2: Report of QUIC Cubic — Data Link

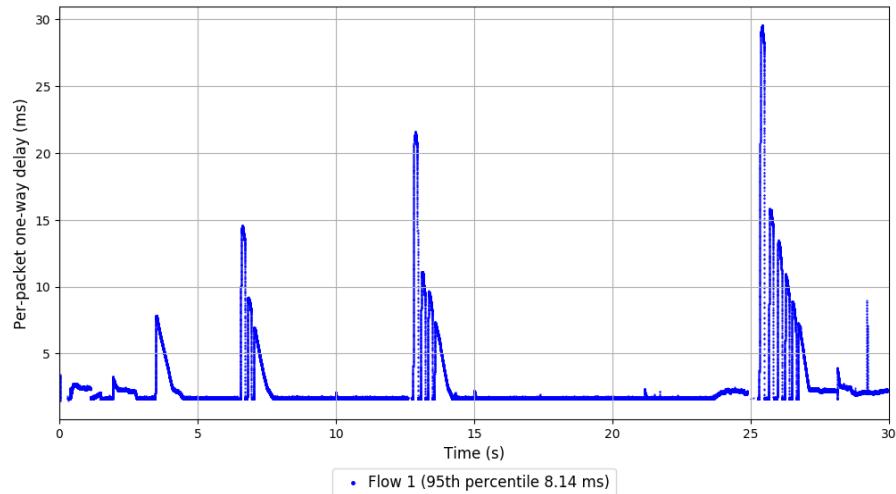
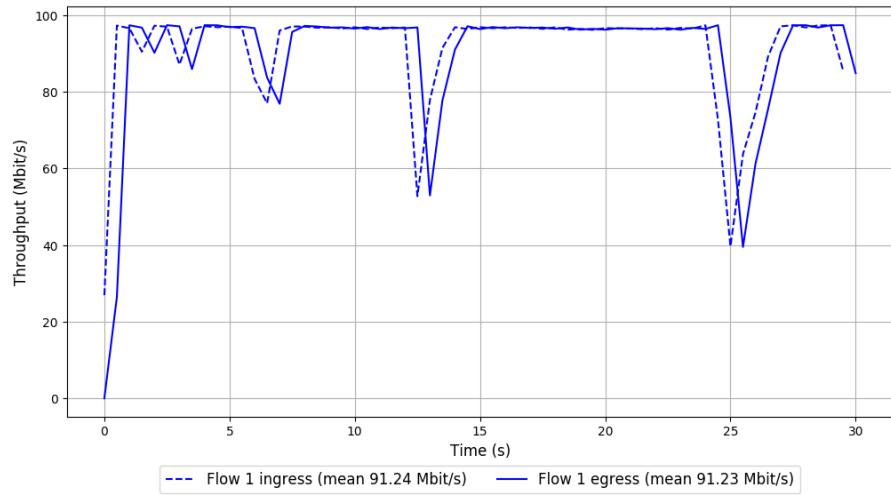


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-19 06:24:16
End at: 2019-01-19 06:24:46
Local clock offset: -8.035 ms
Remote clock offset: 0.935 ms

# Below is generated by plot.py at 2019-01-19 07:28:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 8.144 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 8.144 ms
Loss rate: 0.02%
```

Run 3: Report of QUIC Cubic — Data Link

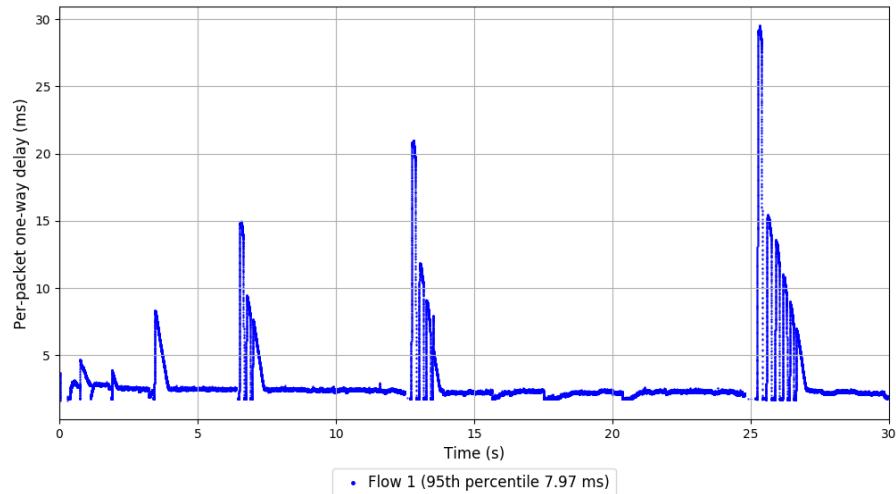
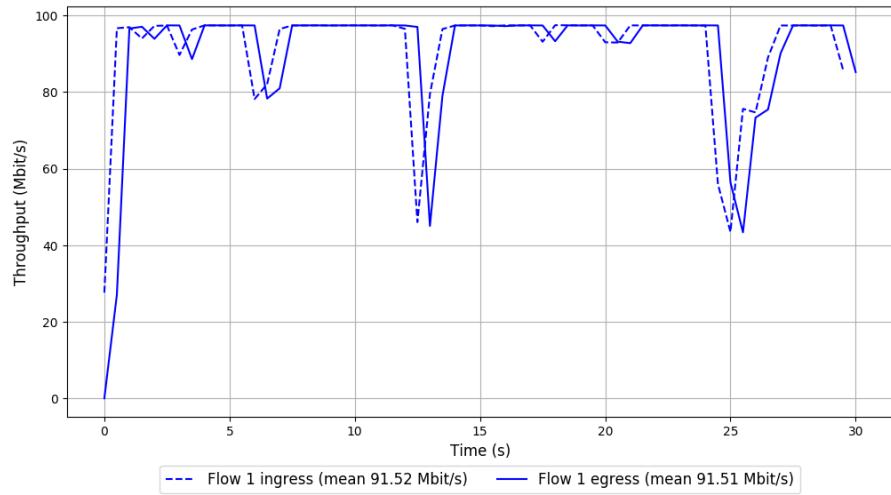


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-19 06:48:00
End at: 2019-01-19 06:48:30
Local clock offset: -8.554 ms
Remote clock offset: 0.991 ms

# Below is generated by plot.py at 2019-01-19 07:29:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.51 Mbit/s
95th percentile per-packet one-way delay: 7.967 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.51 Mbit/s
95th percentile per-packet one-way delay: 7.967 ms
Loss rate: 0.02%
```

Run 4: Report of QUIC Cubic — Data Link

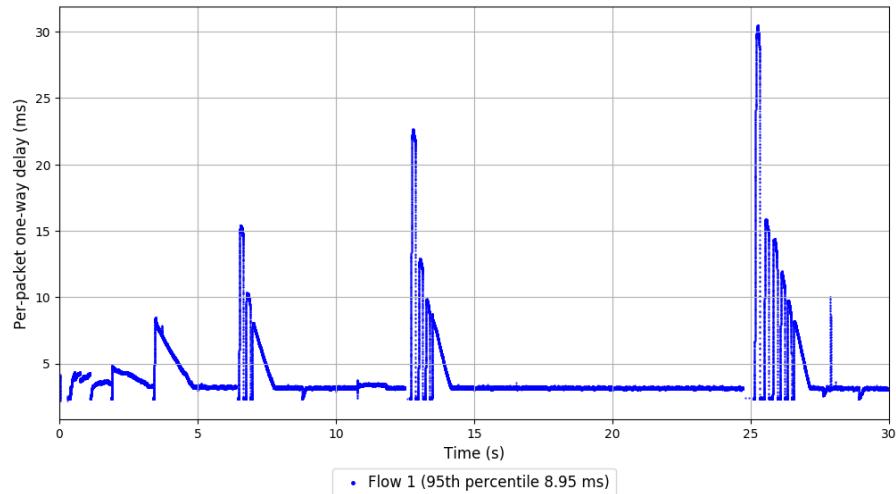
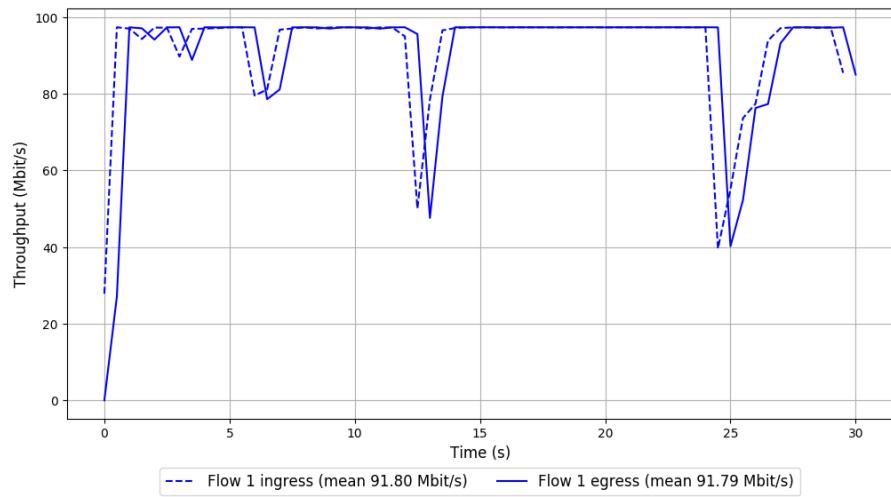


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-19 07:11:47
End at: 2019-01-19 07:12:17
Local clock offset: -7.199 ms
Remote clock offset: 1.174 ms

# Below is generated by plot.py at 2019-01-19 07:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.79 Mbit/s
95th percentile per-packet one-way delay: 8.953 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.79 Mbit/s
95th percentile per-packet one-way delay: 8.953 ms
Loss rate: 0.02%
```

Run 5: Report of QUIC Cubic — Data Link

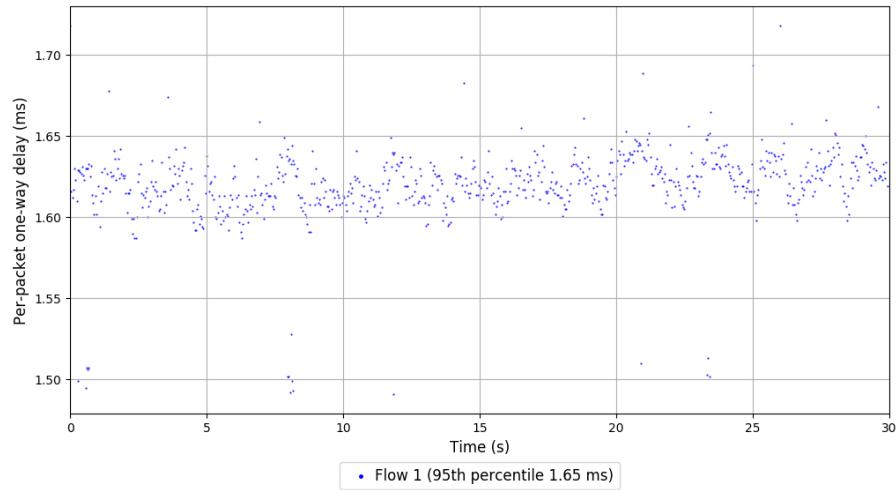
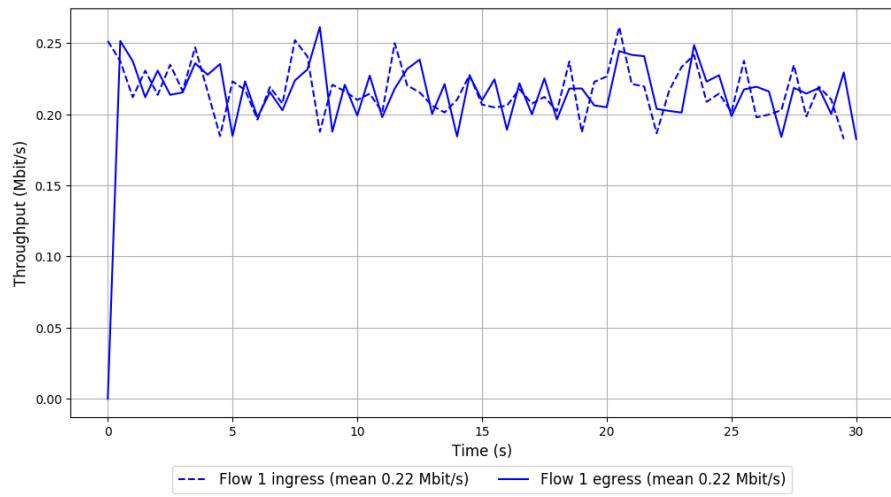


```
Run 1: Statistics of SCReAM

Start at: 2019-01-19 05:19:52
End at: 2019-01-19 05:20:22
Local clock offset: -1.574 ms
Remote clock offset: 0.348 ms

# Below is generated by plot.py at 2019-01-19 07:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.645 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.645 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

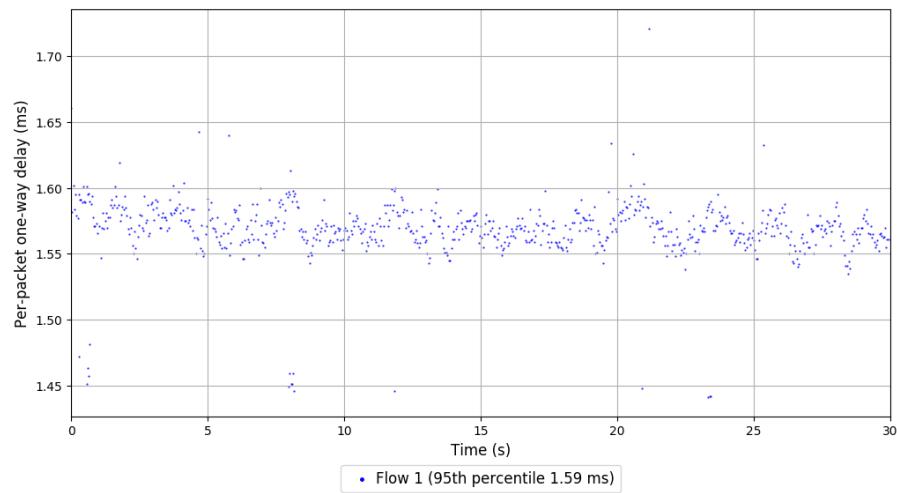
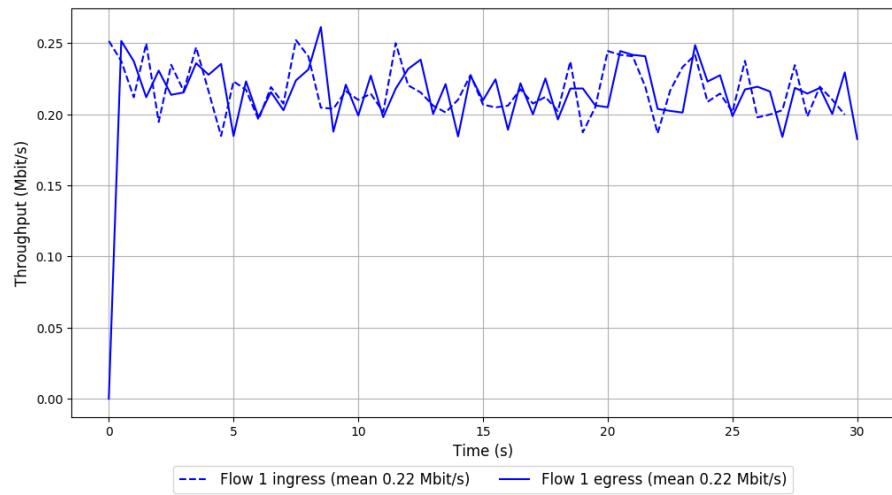


Run 2: Statistics of SCReAM

```
Start at: 2019-01-19 05:43:36
End at: 2019-01-19 05:44:06
Local clock offset: -1.475 ms
Remote clock offset: 0.746 ms

# Below is generated by plot.py at 2019-01-19 07:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.594 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.594 ms
Loss rate: 0.13%
```

Run 2: Report of SCReAM — Data Link

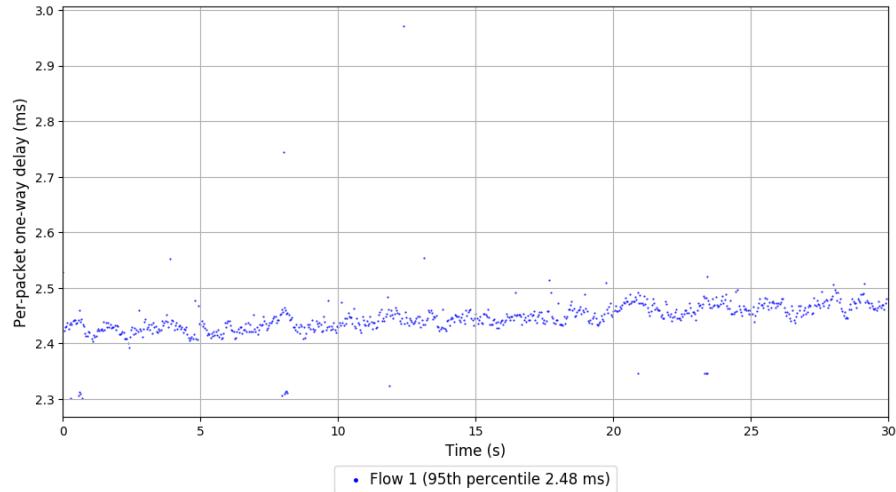
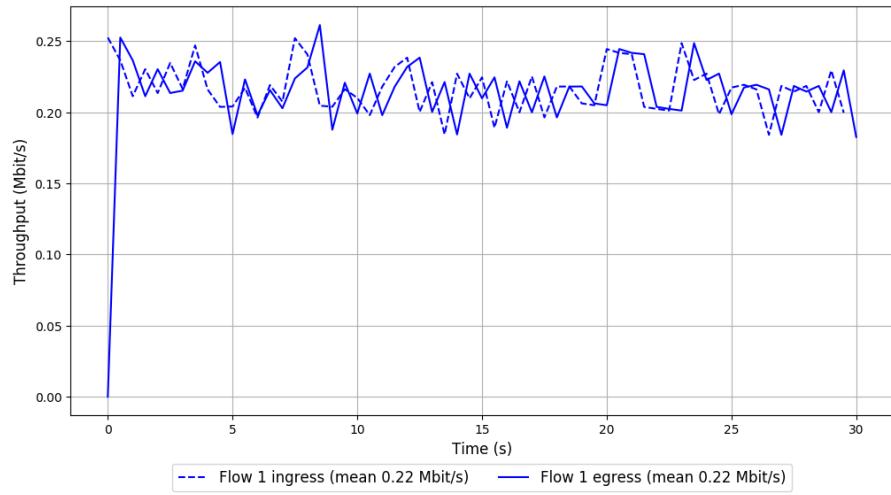


Run 3: Statistics of SCReAM

```
Start at: 2019-01-19 06:07:21
End at: 2019-01-19 06:07:51
Local clock offset: -6.458 ms
Remote clock offset: 0.896 ms

# Below is generated by plot.py at 2019-01-19 07:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.481 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.481 ms
Loss rate: 0.13%
```

Run 3: Report of SCReAM — Data Link

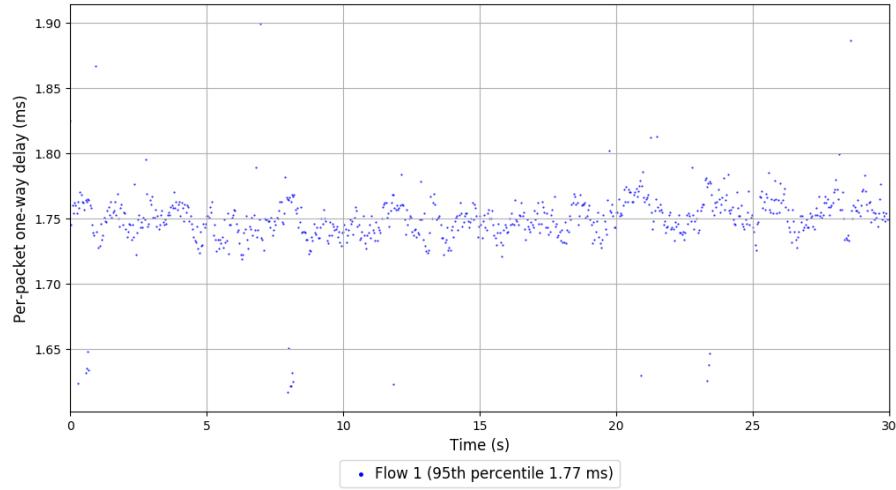
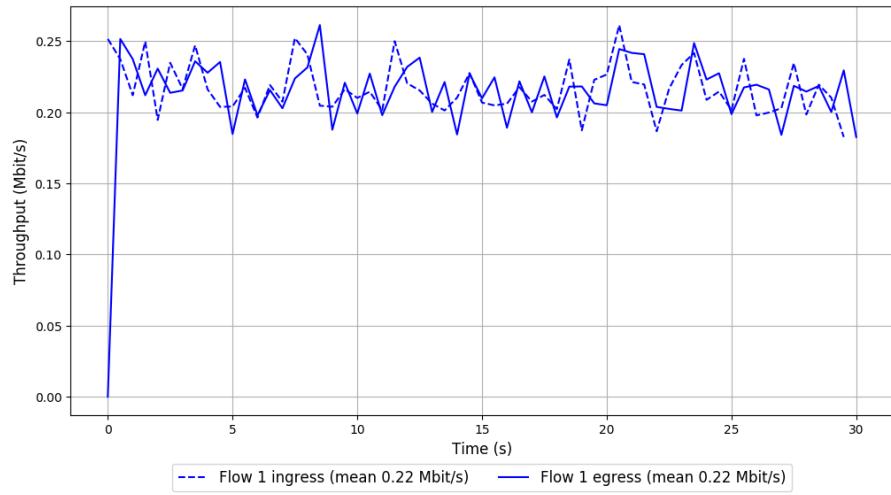


Run 4: Statistics of SCReAM

```
Start at: 2019-01-19 06:31:04
End at: 2019-01-19 06:31:34
Local clock offset: -8.13 ms
Remote clock offset: 0.888 ms

# Below is generated by plot.py at 2019-01-19 07:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.772 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.772 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

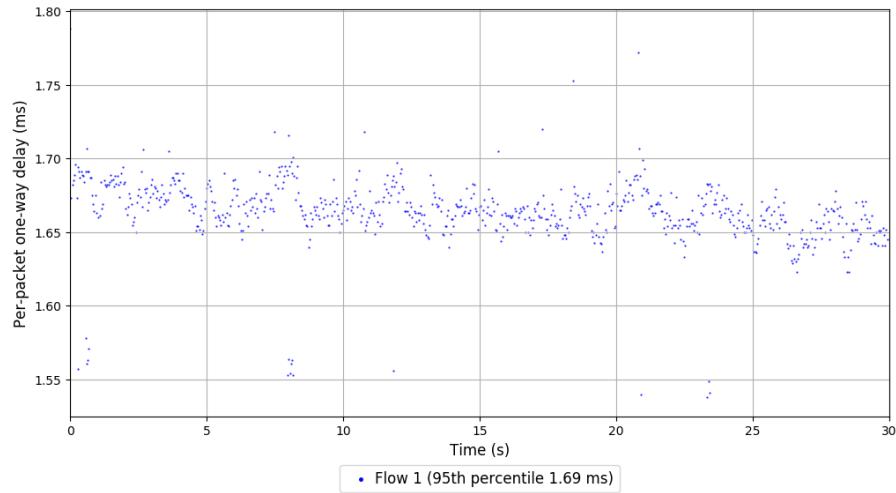
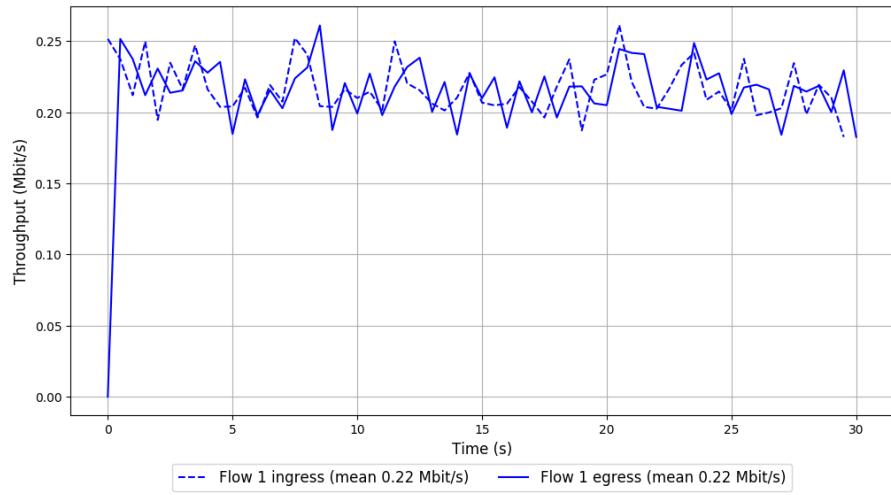


Run 5: Statistics of SCReAM

```
Start at: 2019-01-19 06:54:48
End at: 2019-01-19 06:55:18
Local clock offset: -8.064 ms
Remote clock offset: 1.134 ms

# Below is generated by plot.py at 2019-01-19 07:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.690 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.690 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

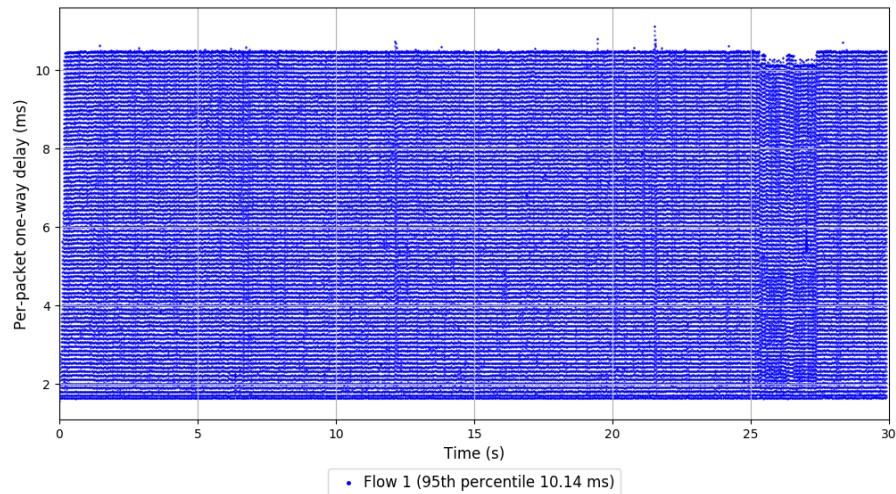
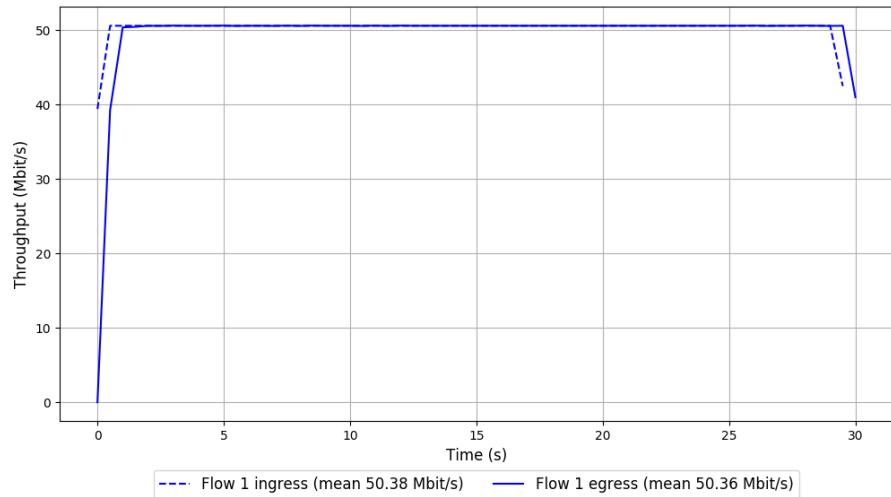


Run 1: Statistics of Sprout

```
Start at: 2019-01-19 05:22:03
End at: 2019-01-19 05:22:33
Local clock offset: -1.667 ms
Remote clock offset: 0.375 ms

# Below is generated by plot.py at 2019-01-19 07:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 10.143 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 10.143 ms
Loss rate: 0.07%
```

Run 1: Report of Sprout — Data Link

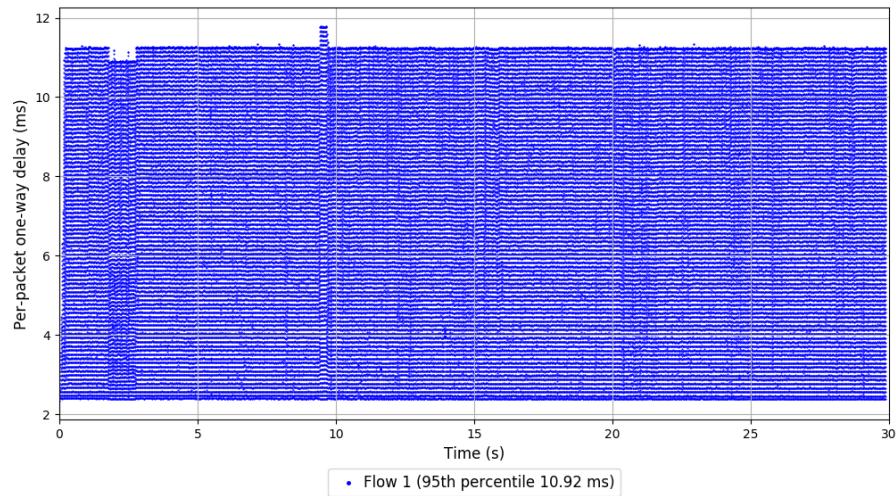
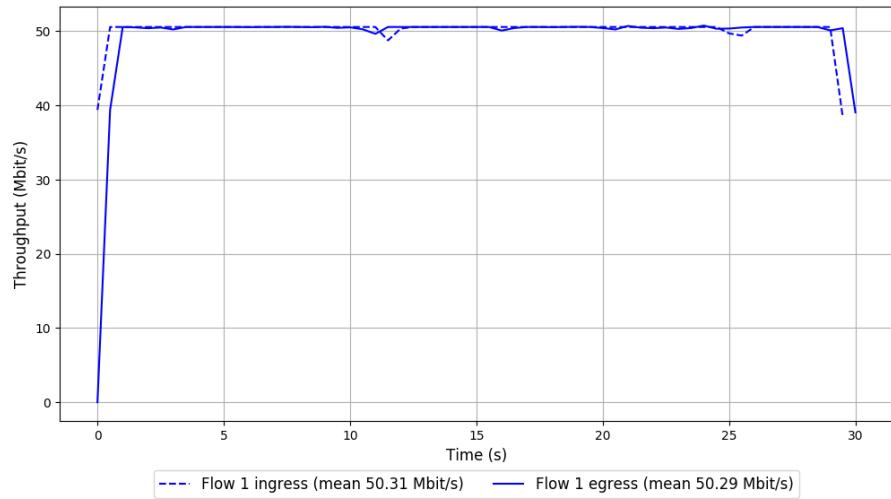


Run 2: Statistics of Sprout

```
Start at: 2019-01-19 05:45:46
End at: 2019-01-19 05:46:16
Local clock offset: -0.725 ms
Remote clock offset: 0.679 ms

# Below is generated by plot.py at 2019-01-19 07:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.29 Mbit/s
95th percentile per-packet one-way delay: 10.916 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.29 Mbit/s
95th percentile per-packet one-way delay: 10.916 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

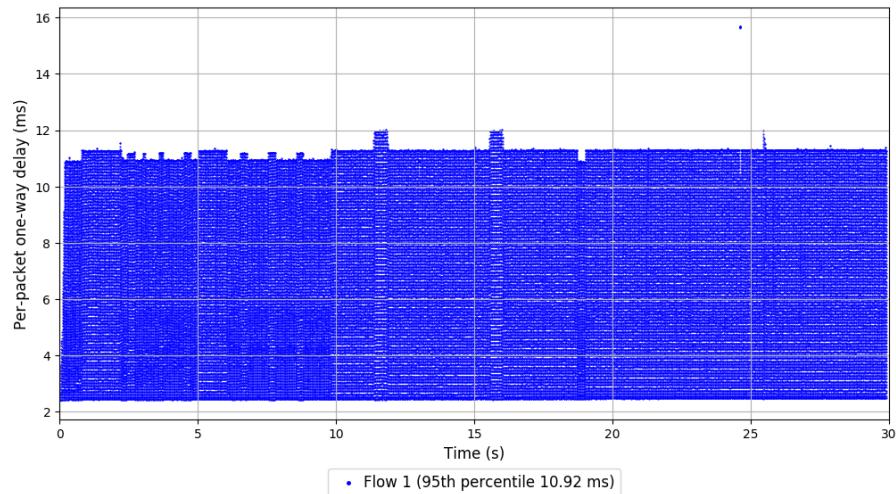
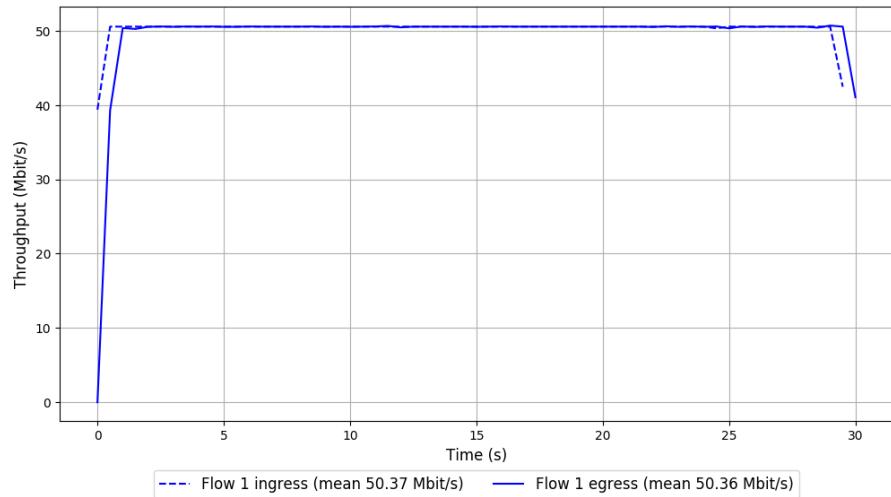


Run 3: Statistics of Sprout

```
Start at: 2019-01-19 06:09:32
End at: 2019-01-19 06:10:02
Local clock offset: -6.641 ms
Remote clock offset: 0.943 ms

# Below is generated by plot.py at 2019-01-19 07:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 10.924 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 10.924 ms
Loss rate: 0.07%
```

Run 3: Report of Sprout — Data Link

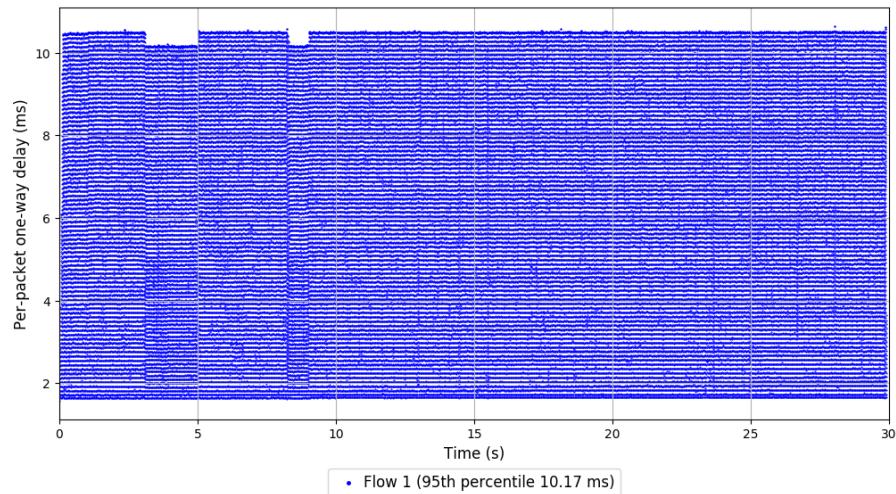
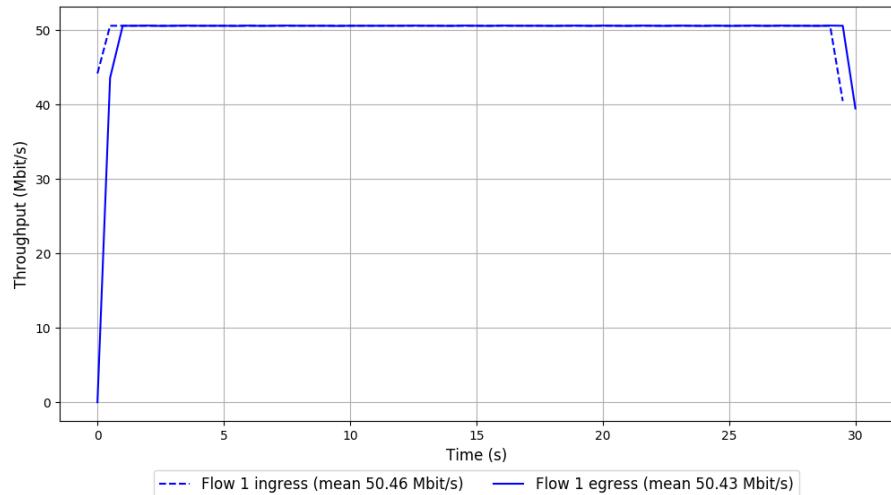


Run 4: Statistics of Sprout

```
Start at: 2019-01-19 06:33:14
End at: 2019-01-19 06:33:44
Local clock offset: -8.184 ms
Remote clock offset: 1.055 ms

# Below is generated by plot.py at 2019-01-19 07:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.43 Mbit/s
95th percentile per-packet one-way delay: 10.172 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 50.43 Mbit/s
95th percentile per-packet one-way delay: 10.172 ms
Loss rate: 0.05%
```

Run 4: Report of Sprout — Data Link

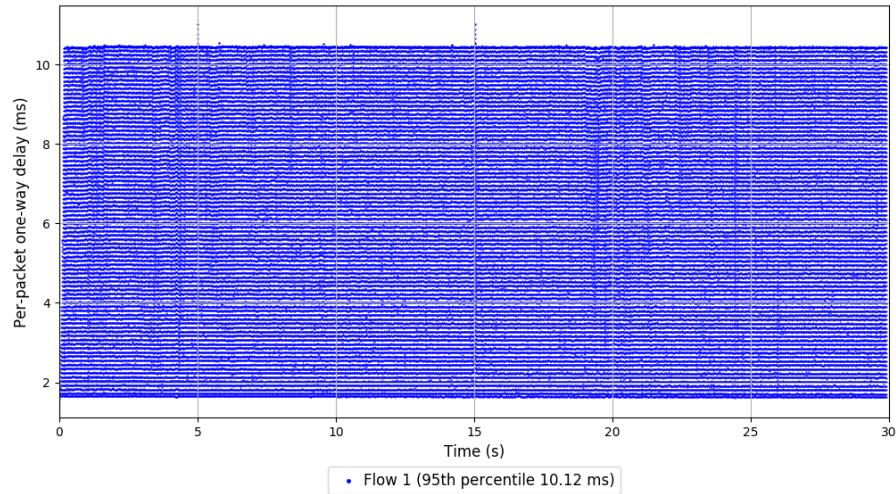
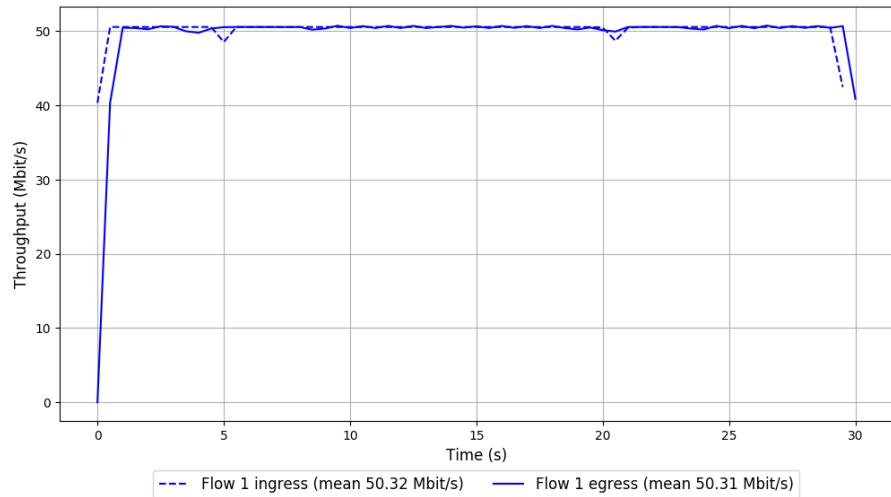


Run 5: Statistics of Sprout

```
Start at: 2019-01-19 06:57:03
End at: 2019-01-19 06:57:33
Local clock offset: -8.062 ms
Remote clock offset: 1.111 ms

# Below is generated by plot.py at 2019-01-19 07:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 10.122 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 10.122 ms
Loss rate: 0.07%
```

Run 5: Report of Sprout — Data Link

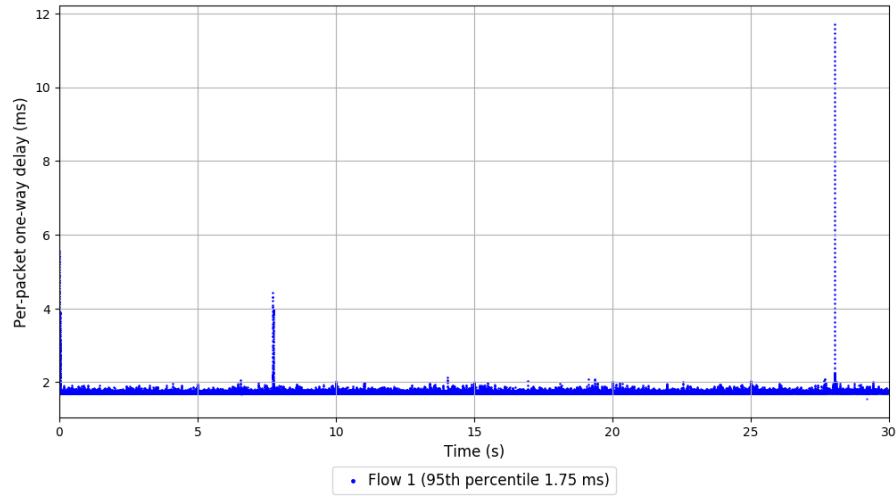
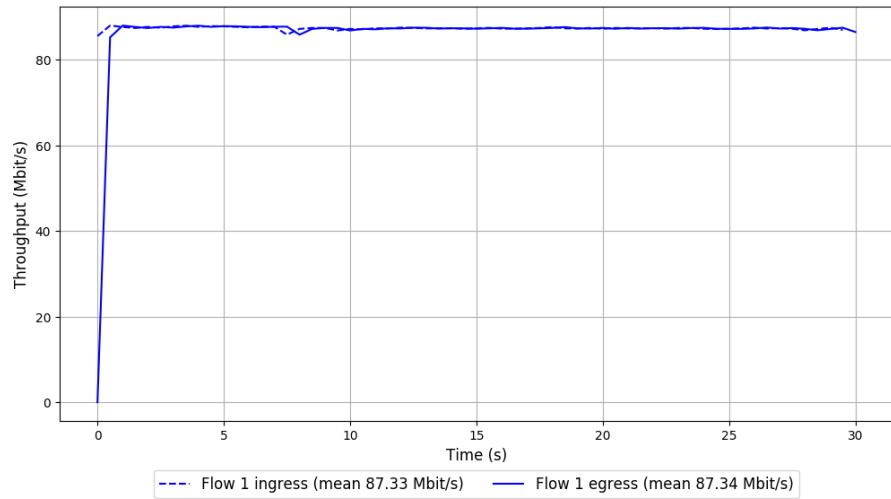


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-19 05:23:08
End at: 2019-01-19 05:23:38
Local clock offset: -1.672 ms
Remote clock offset: 0.303 ms

# Below is generated by plot.py at 2019-01-19 07:30:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.34 Mbit/s
95th percentile per-packet one-way delay: 1.752 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.34 Mbit/s
95th percentile per-packet one-way delay: 1.752 ms
Loss rate: 0.02%
```

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

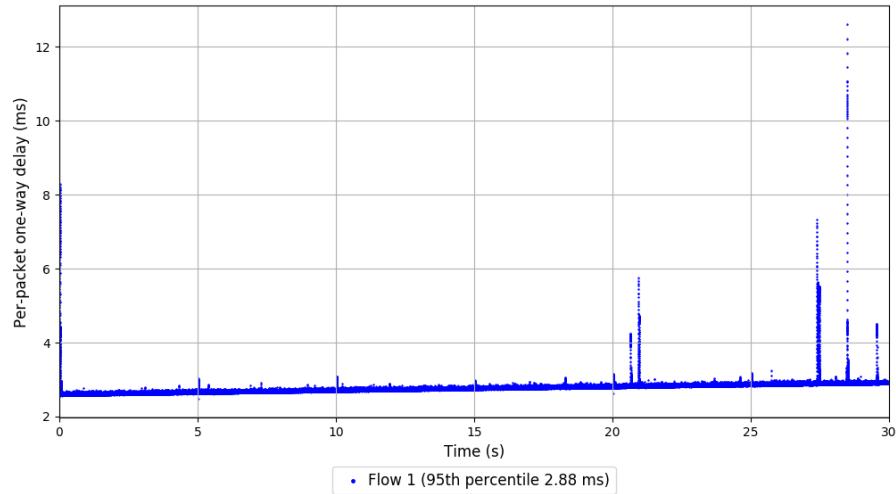
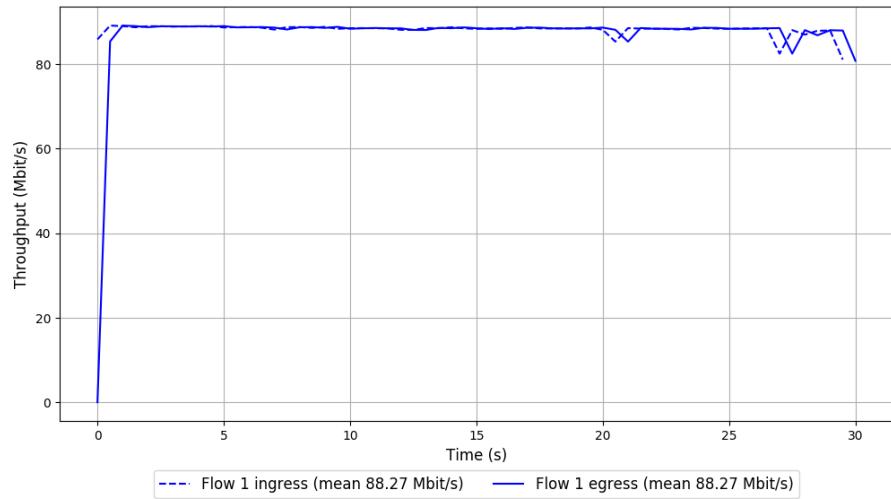


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-19 05:46:52
End at: 2019-01-19 05:47:22
Local clock offset: -0.624 ms
Remote clock offset: 0.771 ms

# Below is generated by plot.py at 2019-01-19 07:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.27 Mbit/s
95th percentile per-packet one-way delay: 2.882 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.27 Mbit/s
95th percentile per-packet one-way delay: 2.882 ms
Loss rate: 0.02%
```

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

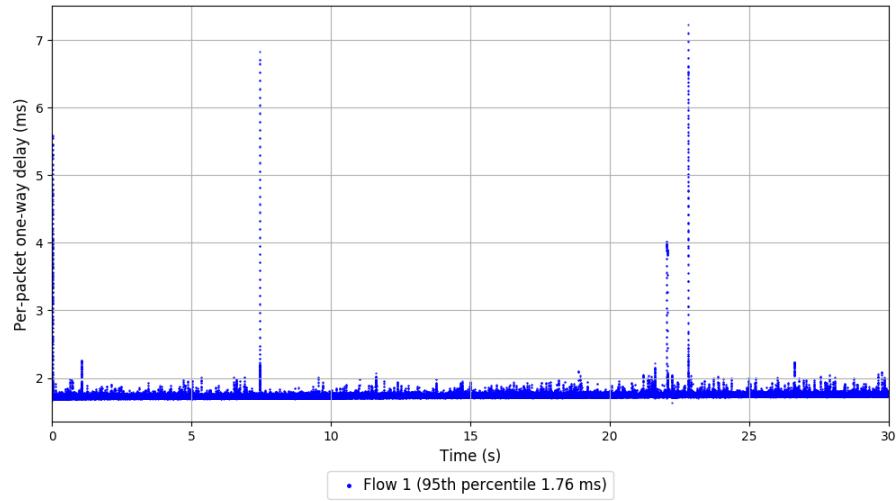
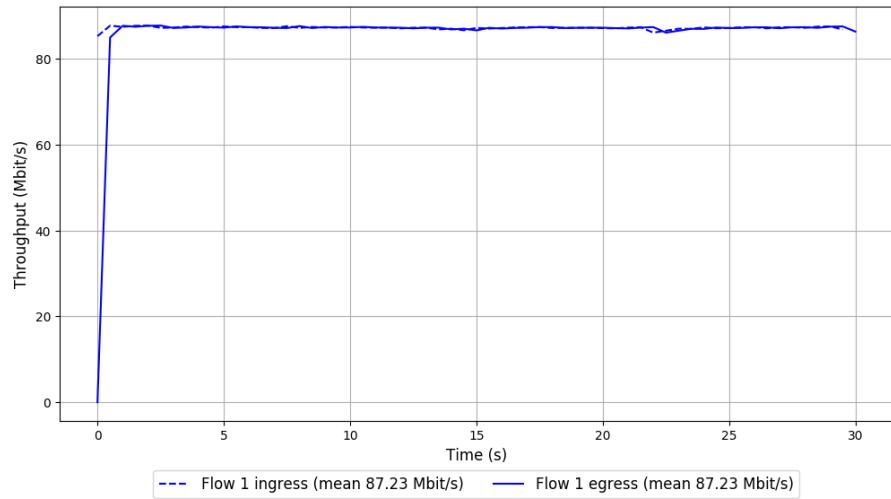


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-19 06:10:38
End at: 2019-01-19 06:11:08
Local clock offset: -7.484 ms
Remote clock offset: 0.91 ms

# Below is generated by plot.py at 2019-01-19 07:30:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 1.759 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 1.759 ms
Loss rate: 0.02%
```

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

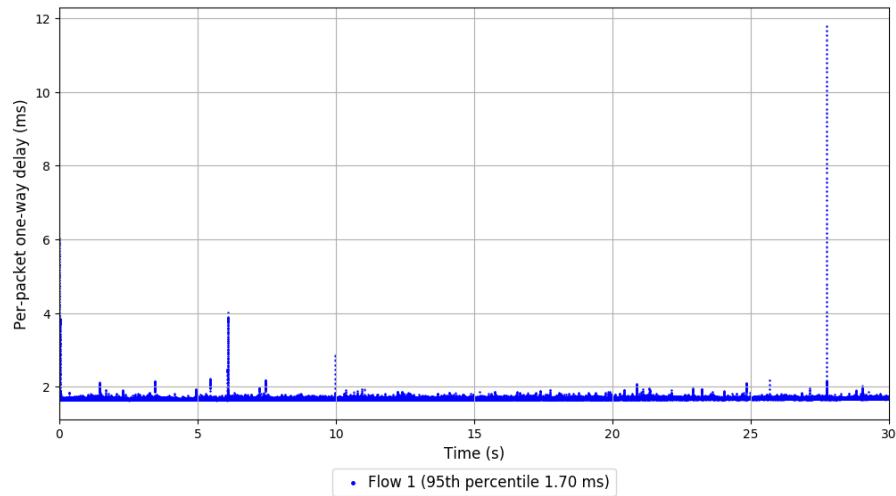
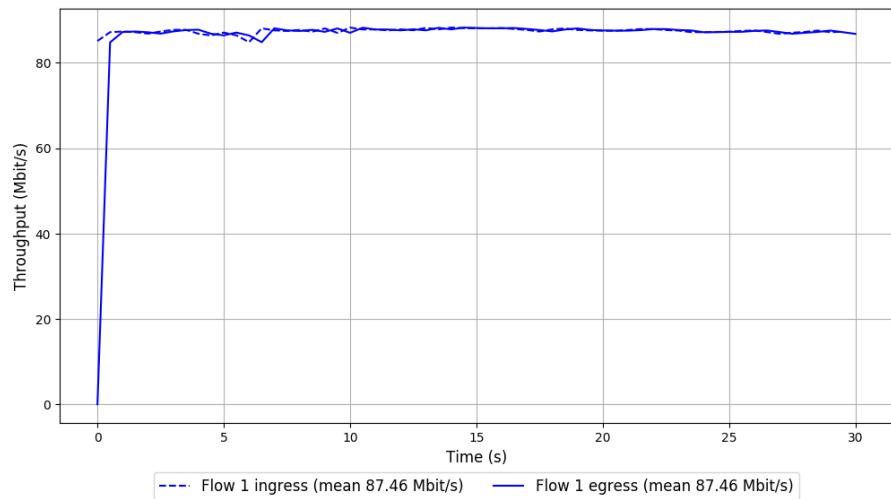


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-19 06:34:19
End at: 2019-01-19 06:34:49
Local clock offset: -8.222 ms
Remote clock offset: 1.025 ms

# Below is generated by plot.py at 2019-01-19 07:30:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.46 Mbit/s
95th percentile per-packet one-way delay: 1.700 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.46 Mbit/s
95th percentile per-packet one-way delay: 1.700 ms
Loss rate: 0.02%
```

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

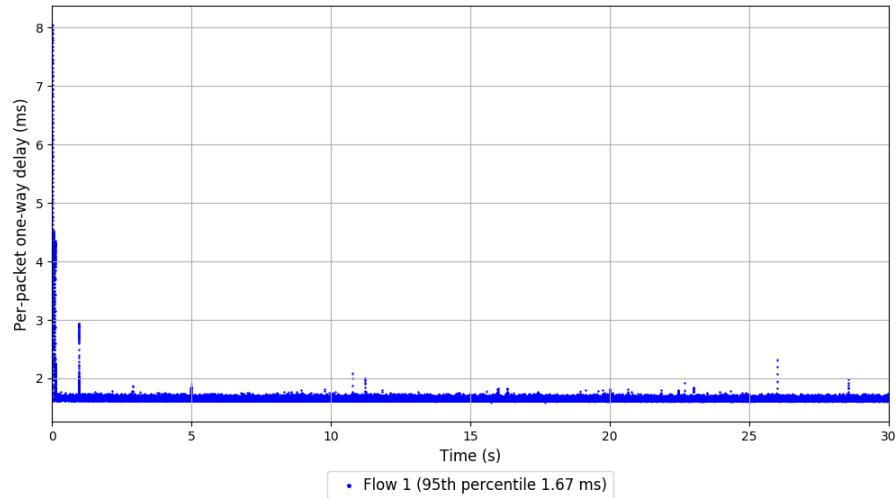
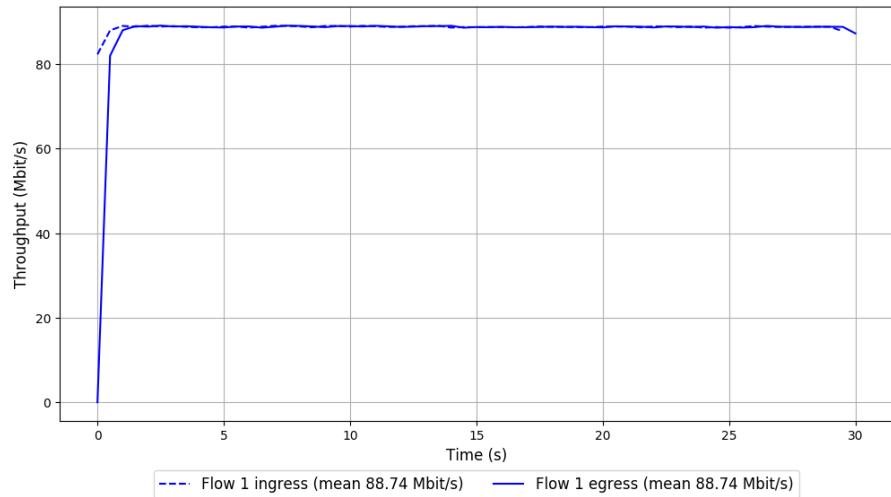


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-19 06:58:09
End at: 2019-01-19 06:58:39
Local clock offset: -8.03 ms
Remote clock offset: 1.103 ms

# Below is generated by plot.py at 2019-01-19 07:31:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 1.670 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 1.670 ms
Loss rate: 0.02%
```

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

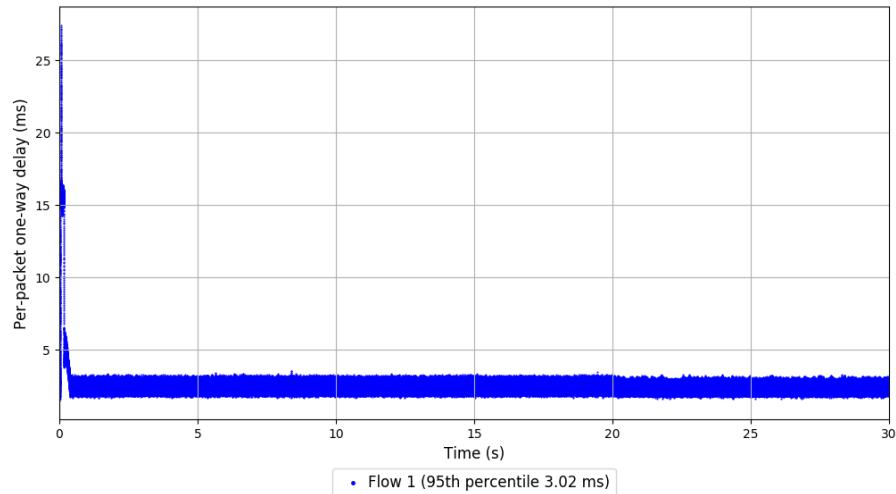
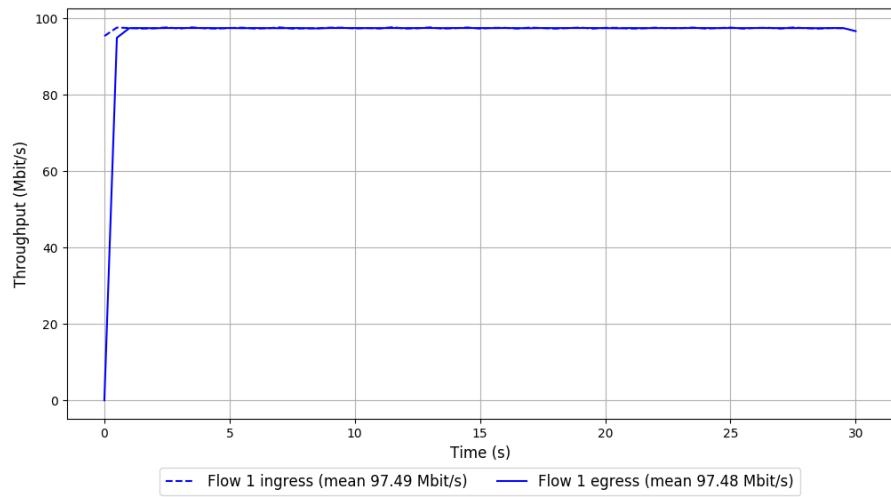


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-19 05:33:30
End at: 2019-01-19 05:34:00
Local clock offset: -1.7 ms
Remote clock offset: 0.517 ms

# Below is generated by plot.py at 2019-01-19 07:31:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 3.016 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 3.016 ms
Loss rate: 0.02%
```

Run 1: Report of TCP Vegas — Data Link

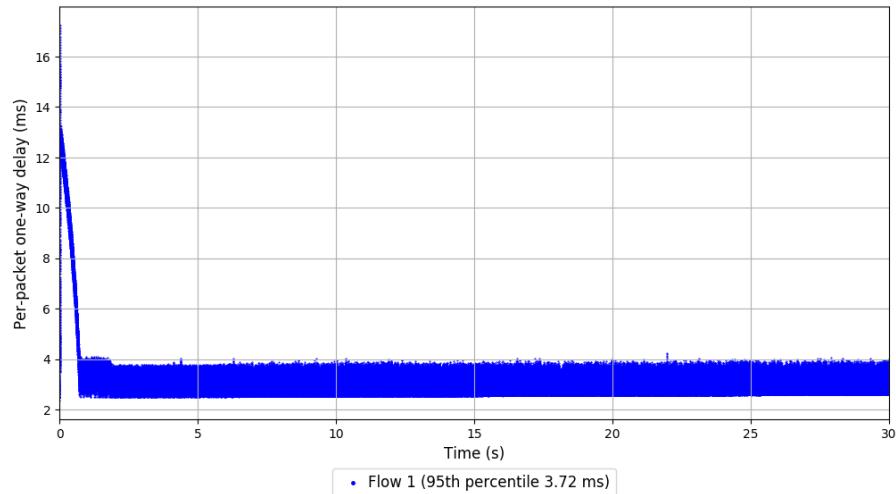
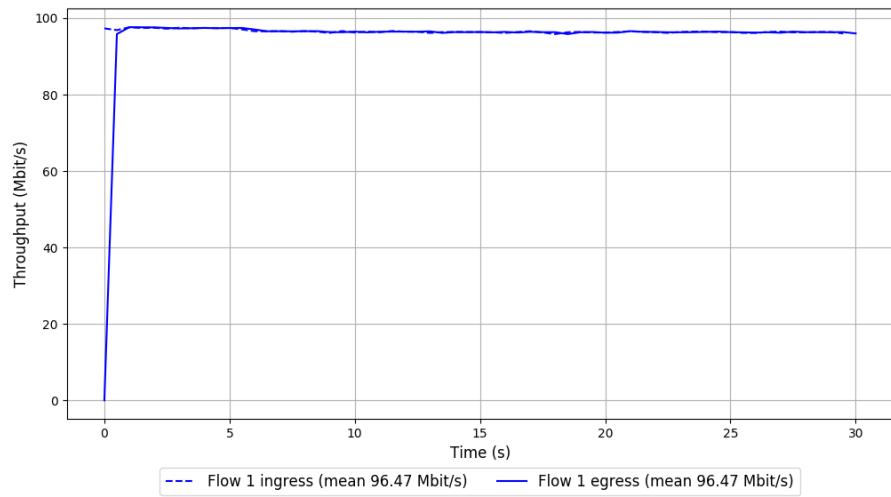


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-19 05:57:14
End at: 2019-01-19 05:57:44
Local clock offset: -4.822 ms
Remote clock offset: 0.869 ms

# Below is generated by plot.py at 2019-01-19 07:31:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 3.718 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 3.718 ms
Loss rate: 0.01%
```

Run 2: Report of TCP Vegas — Data Link

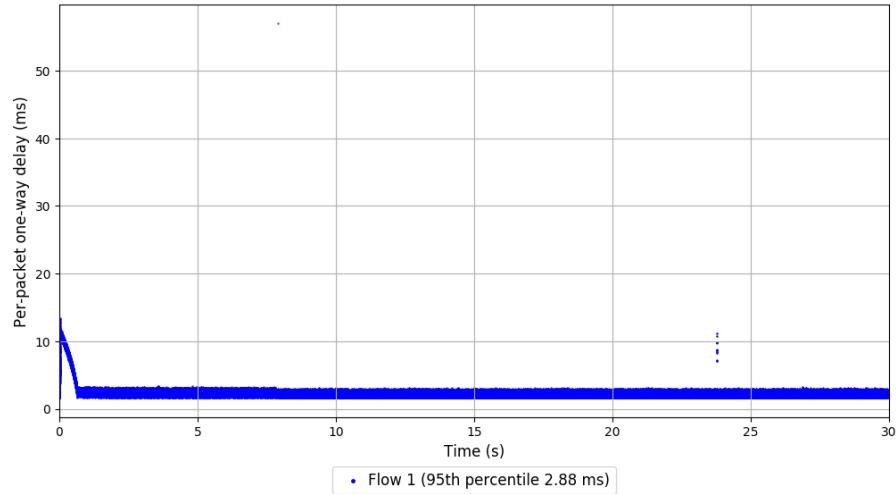
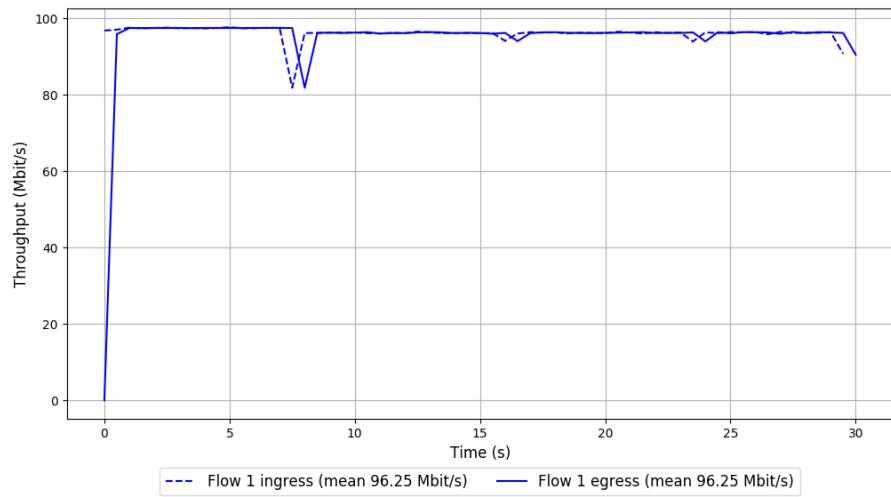


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-19 06:20:57
End at: 2019-01-19 06:21:27
Local clock offset: -7.939 ms
Remote clock offset: 0.939 ms

# Below is generated by plot.py at 2019-01-19 07:31:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 2.885 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 2.885 ms
Loss rate: 0.01%
```

Run 3: Report of TCP Vegas — Data Link

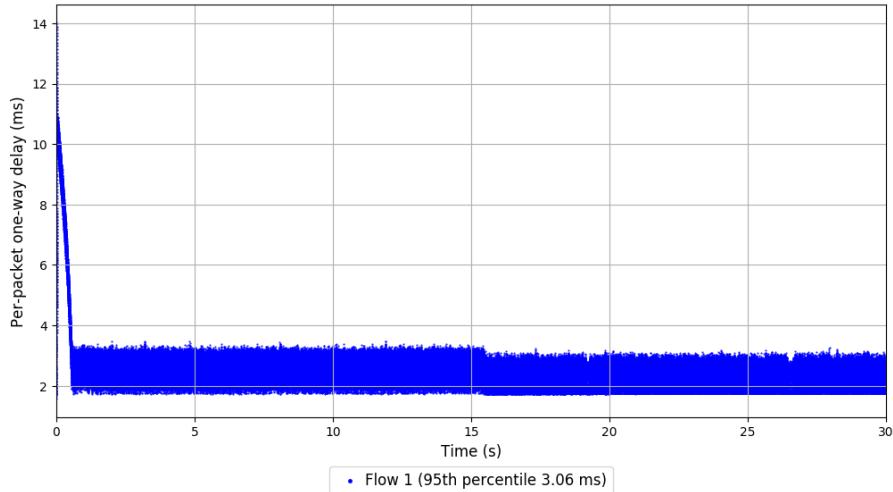
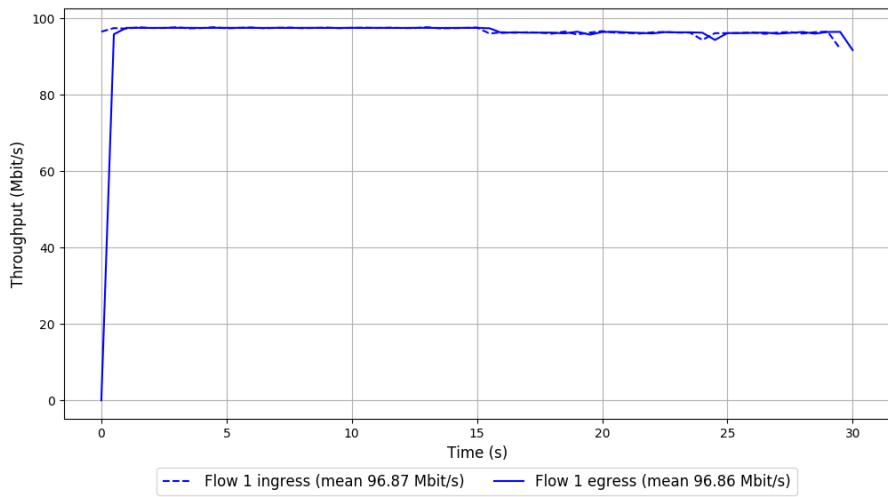


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-19 06:44:41
End at: 2019-01-19 06:45:11
Local clock offset: -8.587 ms
Remote clock offset: 1.03 ms

# Below is generated by plot.py at 2019-01-19 07:31:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 3.059 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 3.059 ms
Loss rate: 0.01%
```

Run 4: Report of TCP Vegas — Data Link

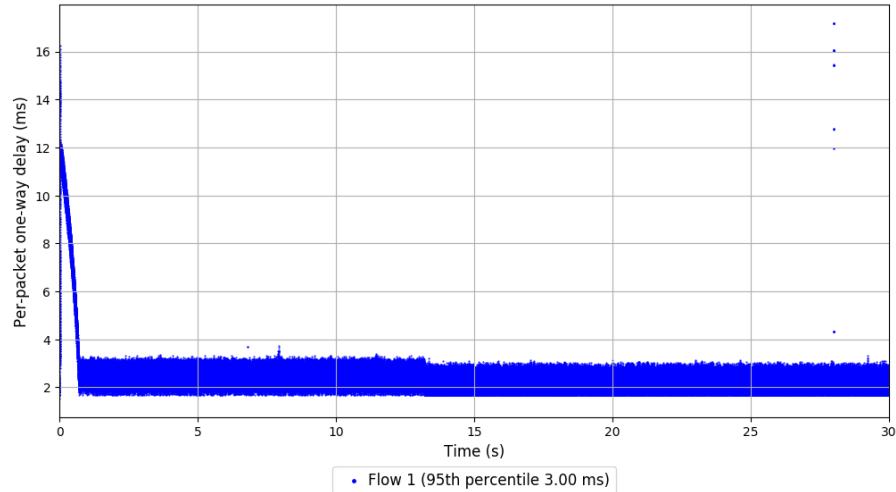
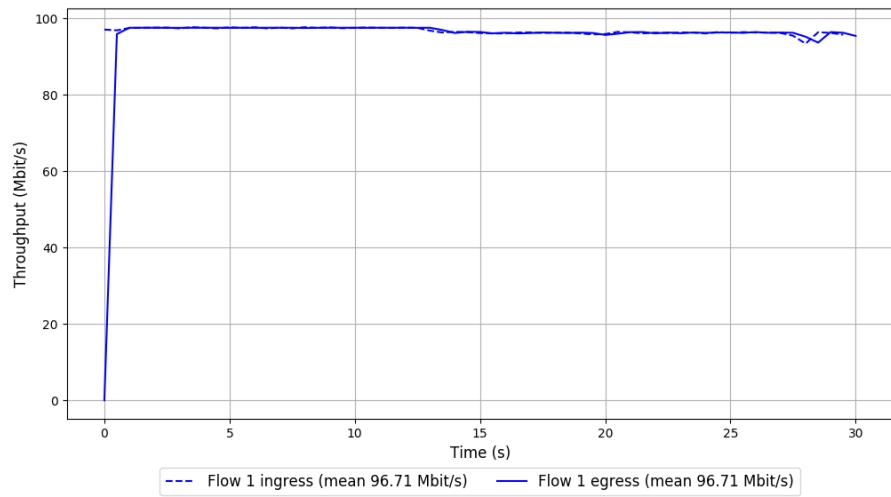


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-19 07:08:27
End at: 2019-01-19 07:08:57
Local clock offset: -7.941 ms
Remote clock offset: 1.097 ms

# Below is generated by plot.py at 2019-01-19 07:31:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.71 Mbit/s
95th percentile per-packet one-way delay: 3.002 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.71 Mbit/s
95th percentile per-packet one-way delay: 3.002 ms
Loss rate: 0.01%
```

Run 5: Report of TCP Vegas — Data Link

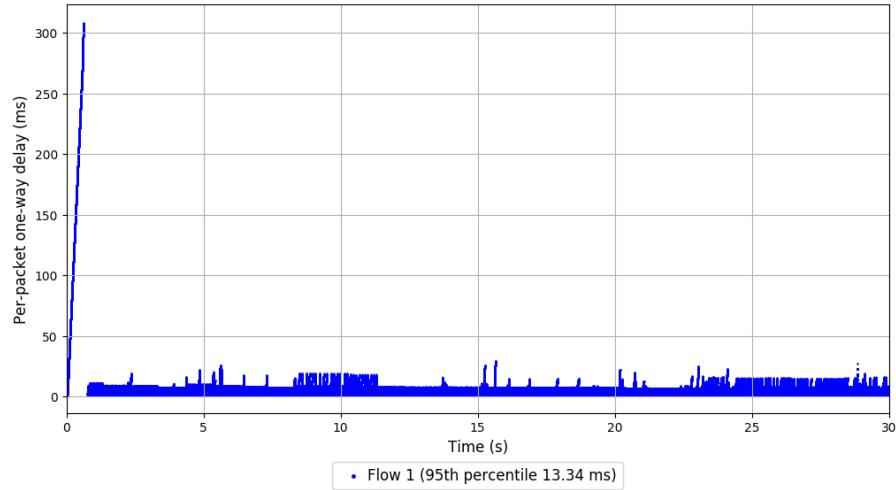
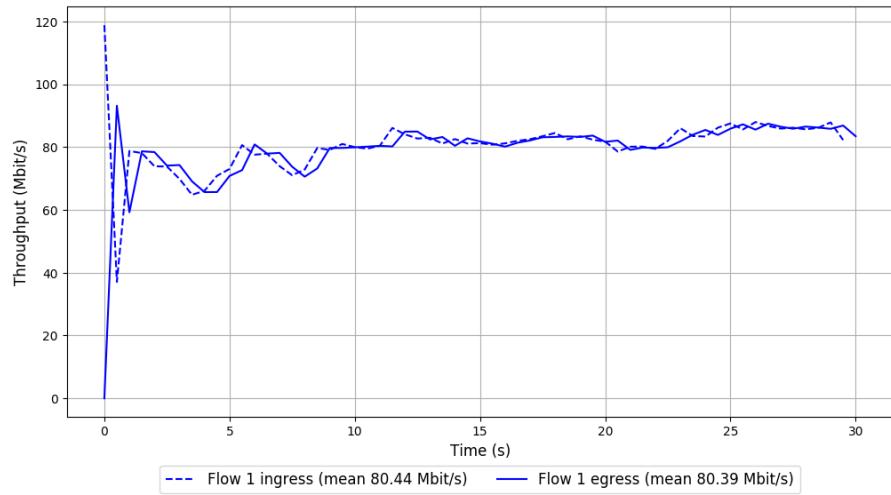


Run 1: Statistics of Verus

```
Start at: 2019-01-19 05:24:19
End at: 2019-01-19 05:24:49
Local clock offset: -1.696 ms
Remote clock offset: 0.288 ms

# Below is generated by plot.py at 2019-01-19 07:31:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.39 Mbit/s
95th percentile per-packet one-way delay: 13.338 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 80.39 Mbit/s
95th percentile per-packet one-way delay: 13.338 ms
Loss rate: 0.06%
```

Run 1: Report of Verus — Data Link

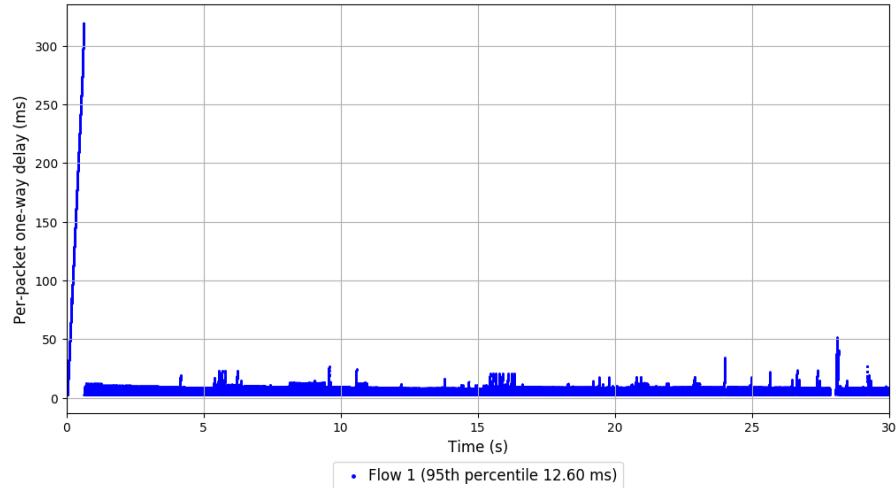
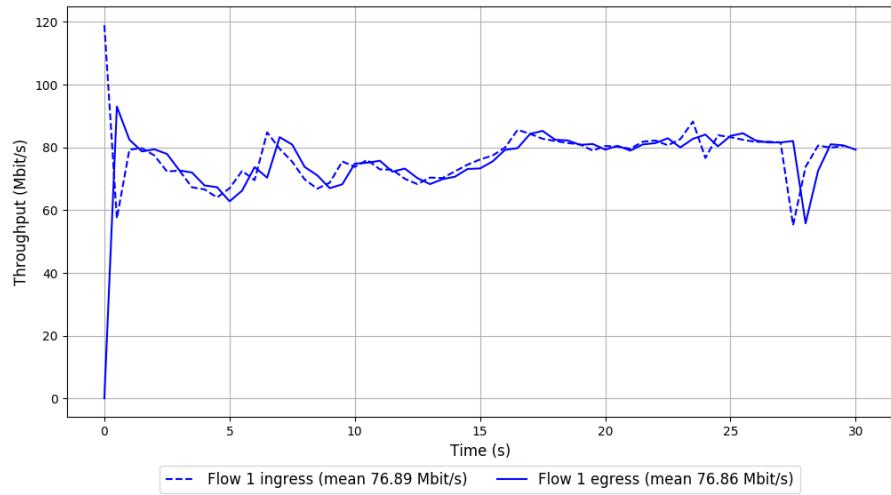


Run 2: Statistics of Verus

```
Start at: 2019-01-19 05:48:03
End at: 2019-01-19 05:48:33
Local clock offset: -1.274 ms
Remote clock offset: 0.762 ms

# Below is generated by plot.py at 2019-01-19 07:31:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.86 Mbit/s
95th percentile per-packet one-way delay: 12.599 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 76.86 Mbit/s
95th percentile per-packet one-way delay: 12.599 ms
Loss rate: 0.03%
```

Run 2: Report of Verus — Data Link

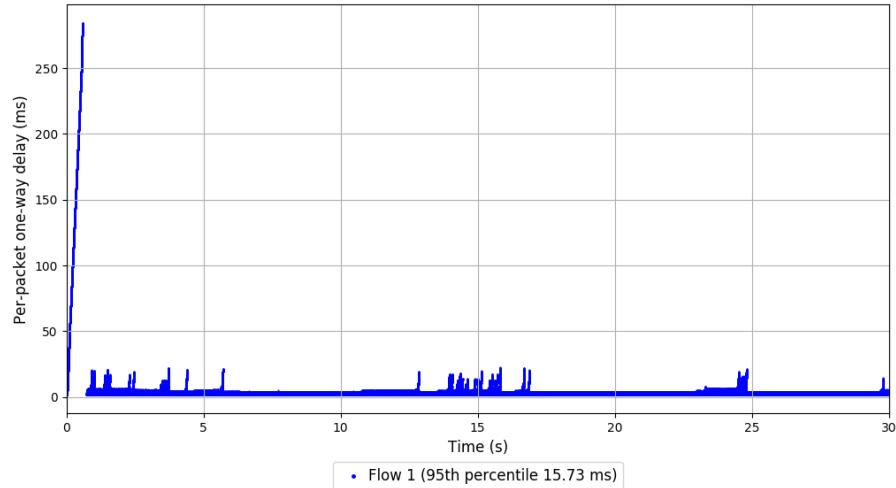
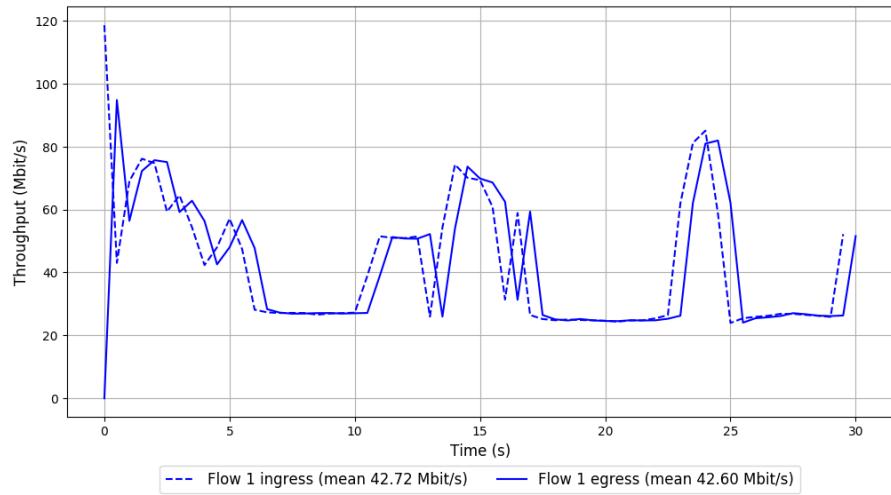


Run 3: Statistics of Verus

```
Start at: 2019-01-19 06:11:48
End at: 2019-01-19 06:12:18
Local clock offset: -7.591 ms
Remote clock offset: 0.956 ms

# Below is generated by plot.py at 2019-01-19 07:31:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.60 Mbit/s
95th percentile per-packet one-way delay: 15.734 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 42.60 Mbit/s
95th percentile per-packet one-way delay: 15.734 ms
Loss rate: 0.30%
```

Run 3: Report of Verus — Data Link

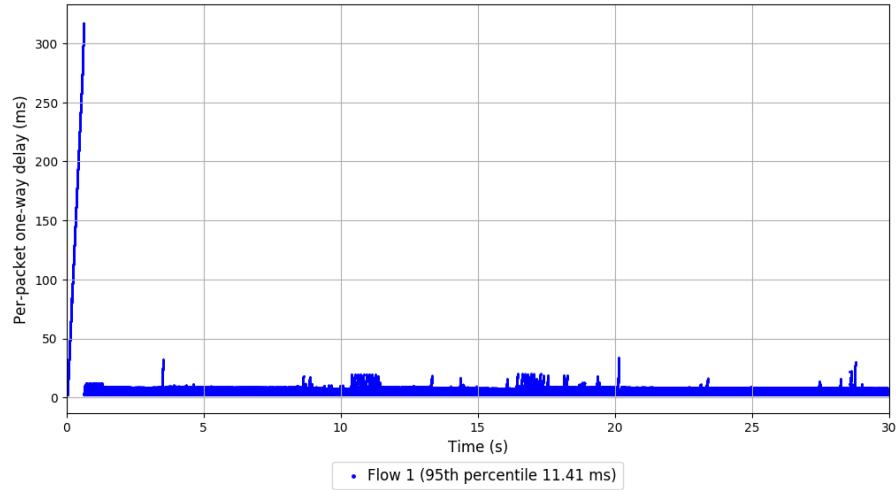
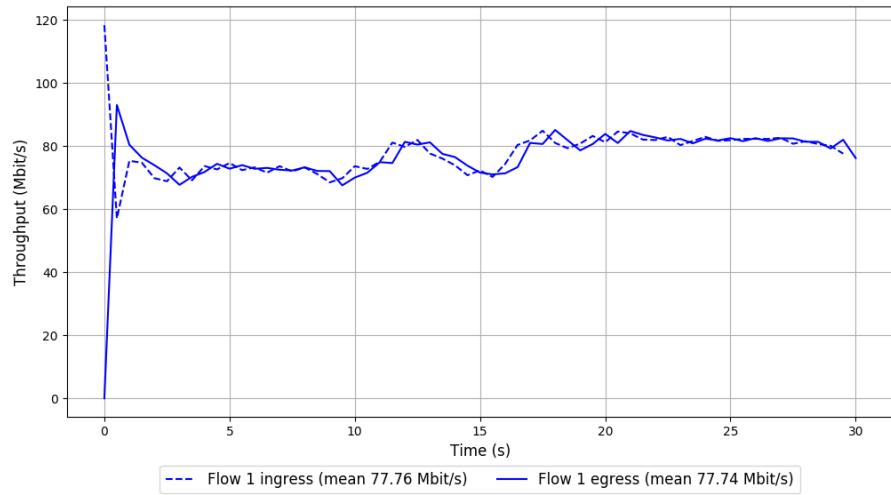


Run 4: Statistics of Verus

```
Start at: 2019-01-19 06:35:30
End at: 2019-01-19 06:36:00
Local clock offset: -7.553 ms
Remote clock offset: 0.987 ms

# Below is generated by plot.py at 2019-01-19 07:31:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.74 Mbit/s
95th percentile per-packet one-way delay: 11.414 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 77.74 Mbit/s
95th percentile per-packet one-way delay: 11.414 ms
Loss rate: 0.04%
```

Run 4: Report of Verus — Data Link

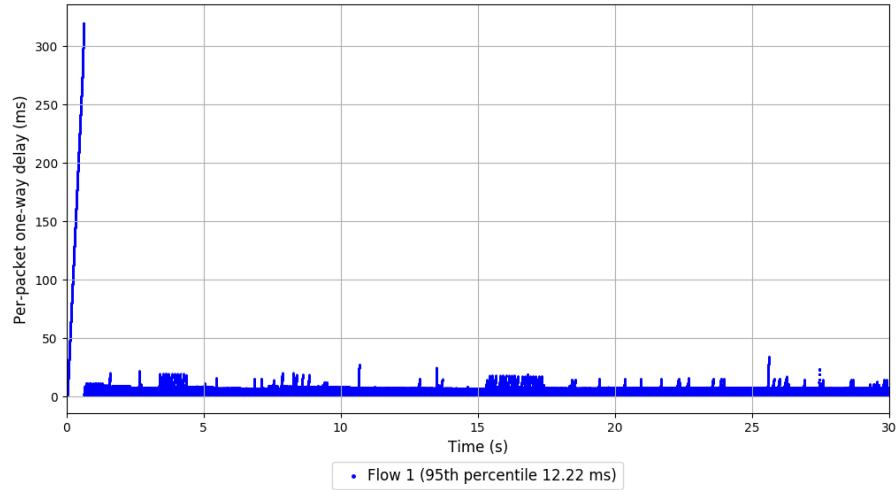
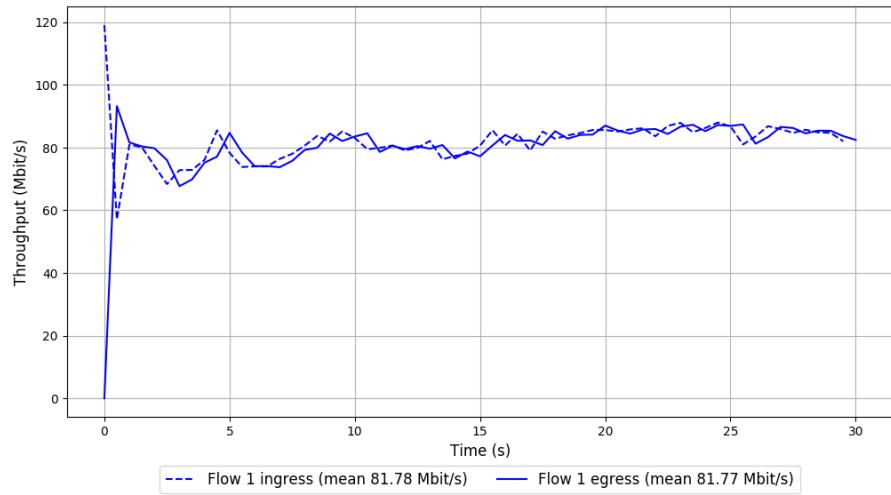


Run 5: Statistics of Verus

```
Start at: 2019-01-19 06:59:20
End at: 2019-01-19 06:59:50
Local clock offset: -7.948 ms
Remote clock offset: 1.066 ms

# Below is generated by plot.py at 2019-01-19 07:31:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.77 Mbit/s
95th percentile per-packet one-way delay: 12.223 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 81.77 Mbit/s
95th percentile per-packet one-way delay: 12.223 ms
Loss rate: 0.02%
```

Run 5: Report of Verus — Data Link

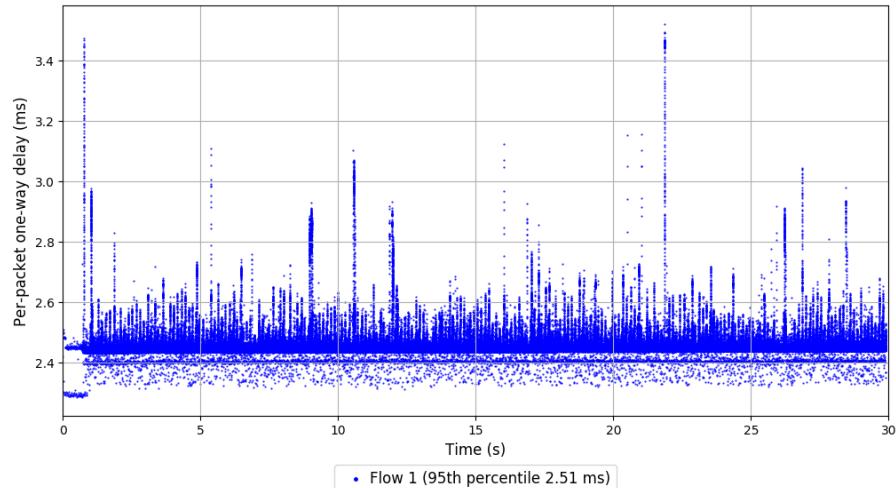
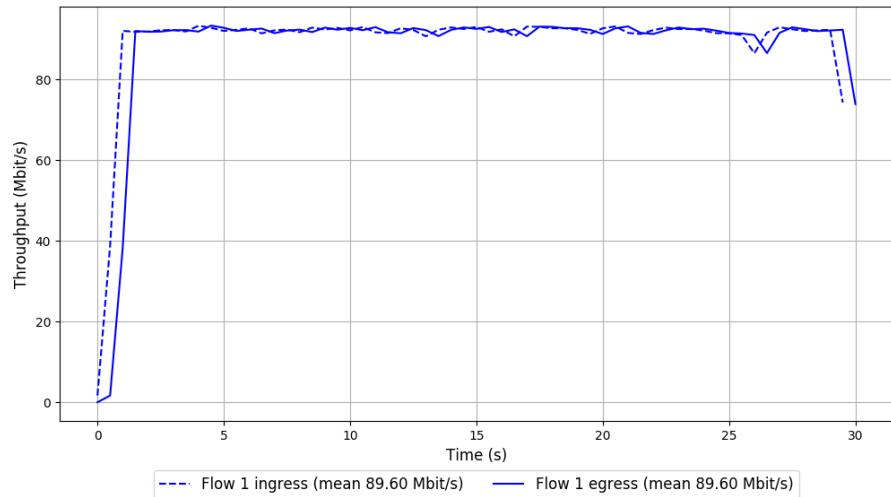


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-19 05:28:53
End at: 2019-01-19 05:29:23
Local clock offset: -0.985 ms
Remote clock offset: 0.359 ms

# Below is generated by plot.py at 2019-01-19 07:32:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.60 Mbit/s
95th percentile per-packet one-way delay: 2.511 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 89.60 Mbit/s
95th percentile per-packet one-way delay: 2.511 ms
Loss rate: 0.02%
```

Run 1: Report of PCC-Vivace — Data Link

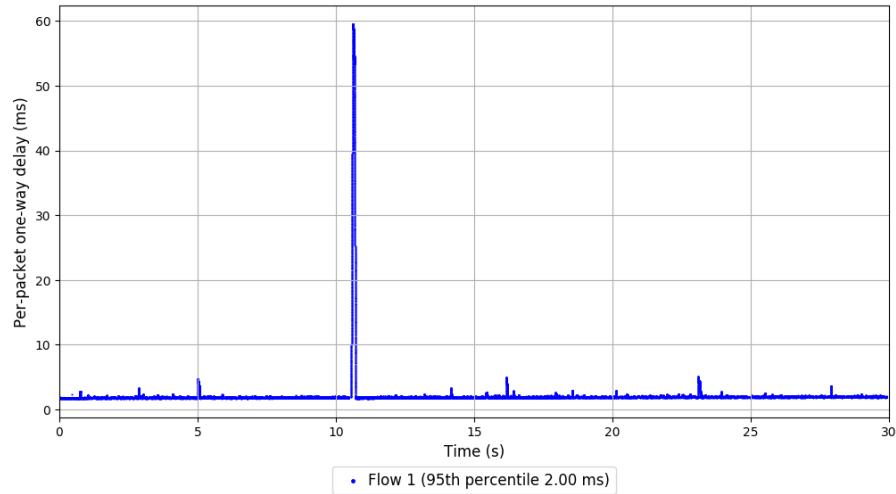
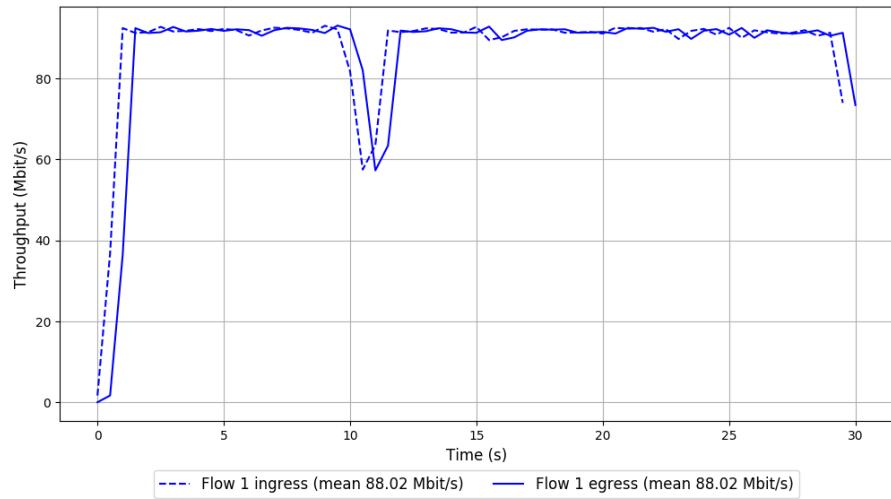


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-19 05:52:36
End at: 2019-01-19 05:53:06
Local clock offset: -4.218 ms
Remote clock offset: 0.8 ms

# Below is generated by plot.py at 2019-01-19 07:32:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 1.996 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 1.996 ms
Loss rate: 0.02%
```

Run 2: Report of PCC-Vivace — Data Link

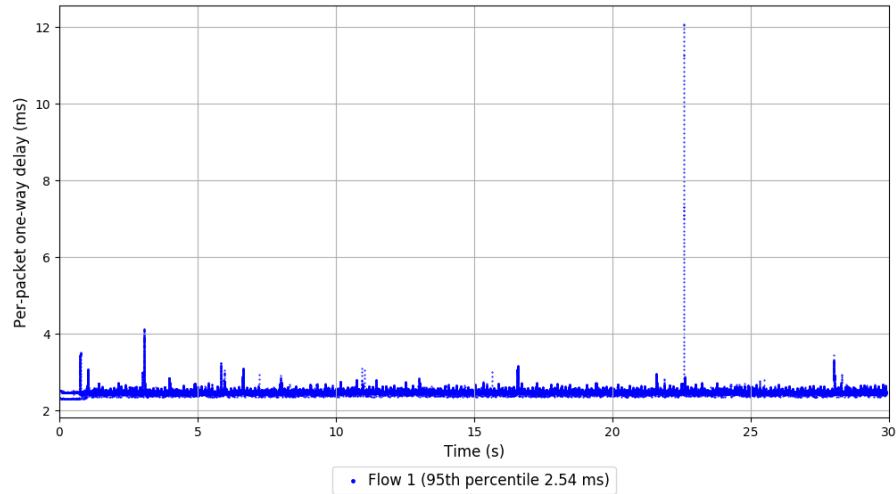
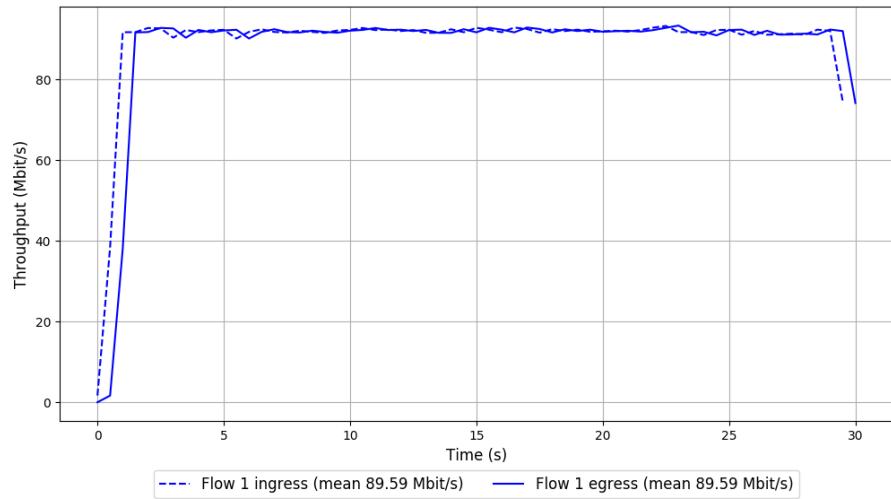


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-19 06:16:19
End at: 2019-01-19 06:16:49
Local clock offset: -7.167 ms
Remote clock offset: 0.896 ms

# Below is generated by plot.py at 2019-01-19 07:32:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.59 Mbit/s
95th percentile per-packet one-way delay: 2.542 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 89.59 Mbit/s
95th percentile per-packet one-way delay: 2.542 ms
Loss rate: 0.02%
```

Run 3: Report of PCC-Vivace — Data Link

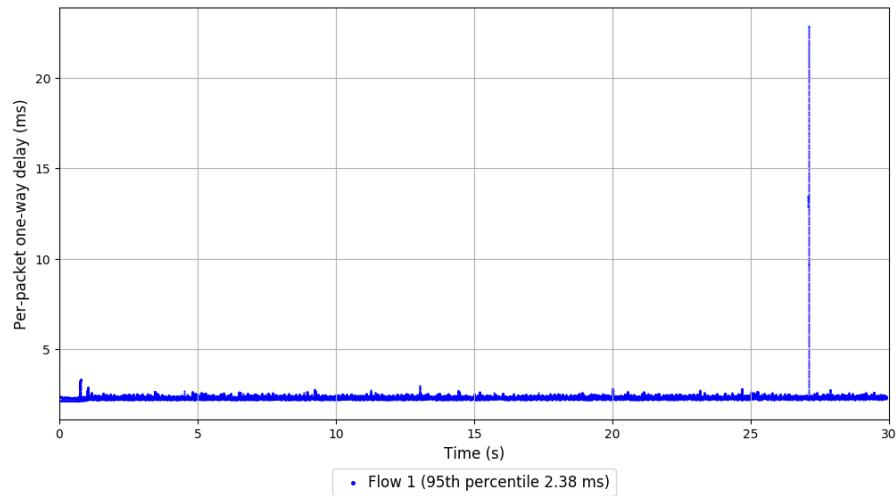
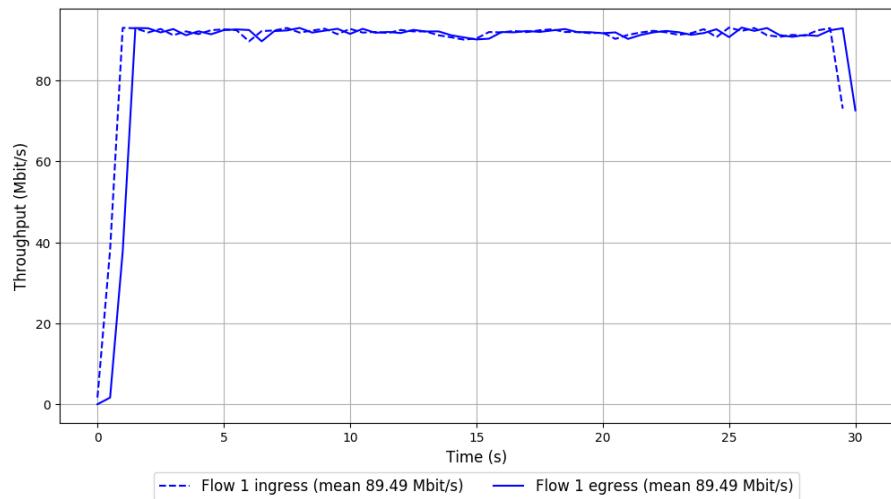


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-19 06:40:04
End at: 2019-01-19 06:40:34
Local clock offset: -7.736 ms
Remote clock offset: 1.102 ms

# Below is generated by plot.py at 2019-01-19 07:32:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.49 Mbit/s
95th percentile per-packet one-way delay: 2.383 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 89.49 Mbit/s
95th percentile per-packet one-way delay: 2.383 ms
Loss rate: 0.02%
```

Run 4: Report of PCC-Vivace — Data Link

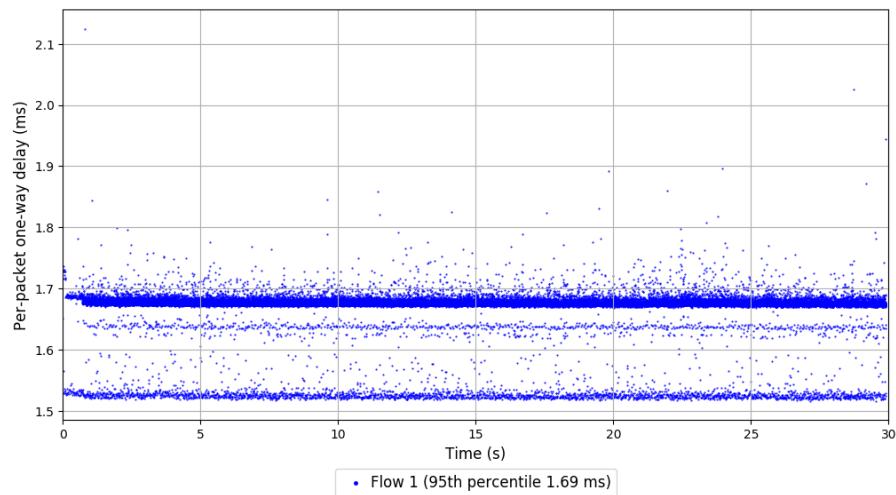
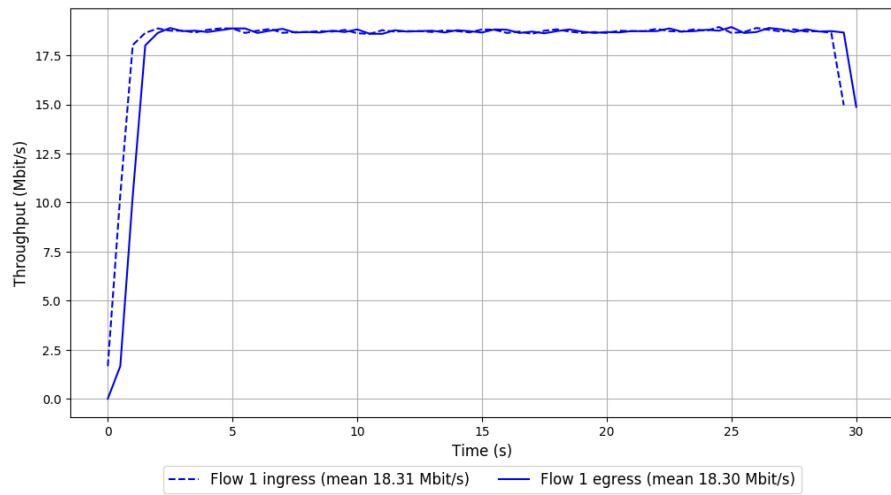


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-19 07:03:54
End at: 2019-01-19 07:04:24
Local clock offset: -7.922 ms
Remote clock offset: 1.093 ms

# Below is generated by plot.py at 2019-01-19 07:32:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.30 Mbit/s
95th percentile per-packet one-way delay: 1.685 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 18.30 Mbit/s
95th percentile per-packet one-way delay: 1.685 ms
Loss rate: 0.01%
```

Run 5: Report of PCC-Vivace — Data Link

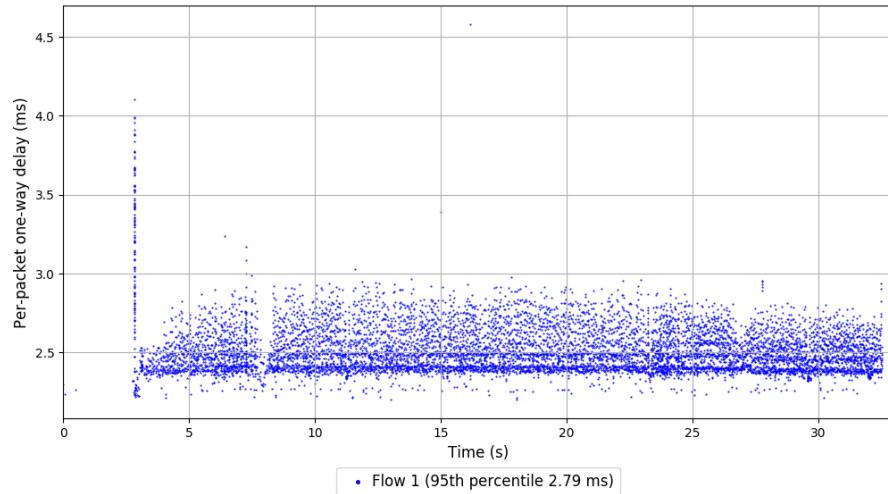
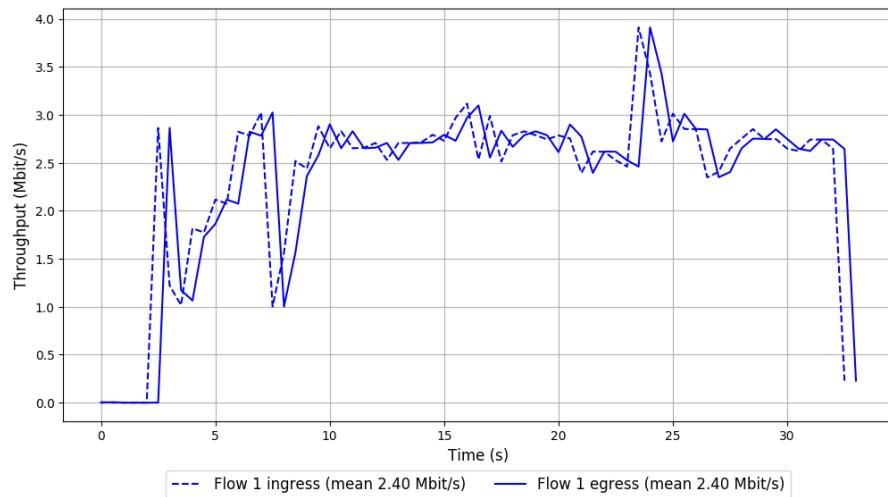


Run 1: Statistics of WebRTC media

```
Start at: 2019-01-19 05:35:45
End at: 2019-01-19 05:36:15
Local clock offset: -0.884 ms
Remote clock offset: 0.593 ms

# Below is generated by plot.py at 2019-01-19 07:32:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 2.788 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 2.788 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

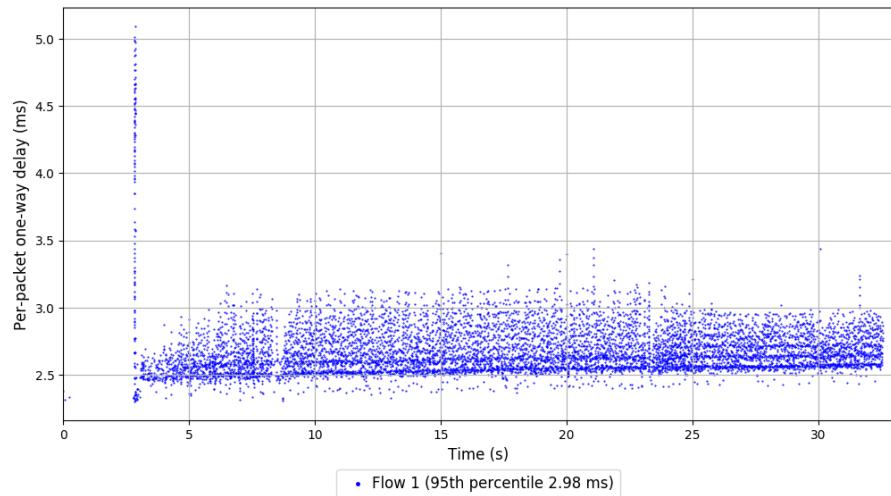
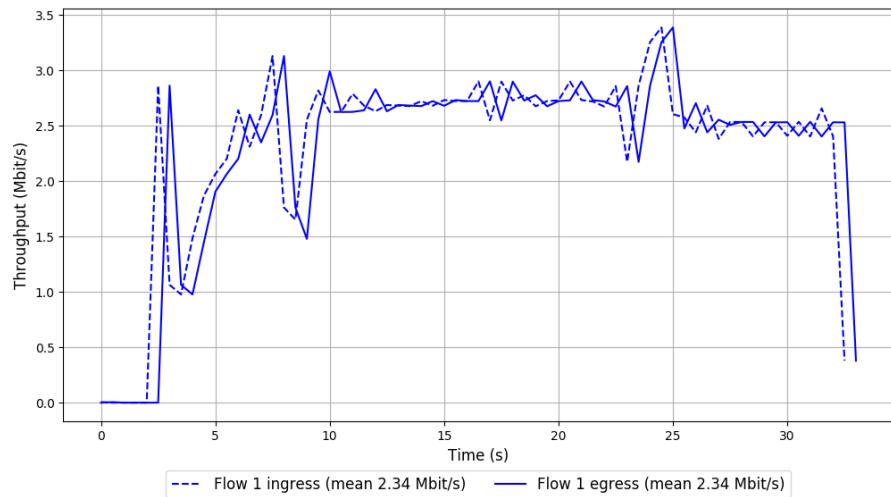


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-19 05:59:29
End at: 2019-01-19 05:59:59
Local clock offset: -5.366 ms
Remote clock offset: 0.833 ms

# Below is generated by plot.py at 2019-01-19 07:32:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 2.982 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 2.982 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

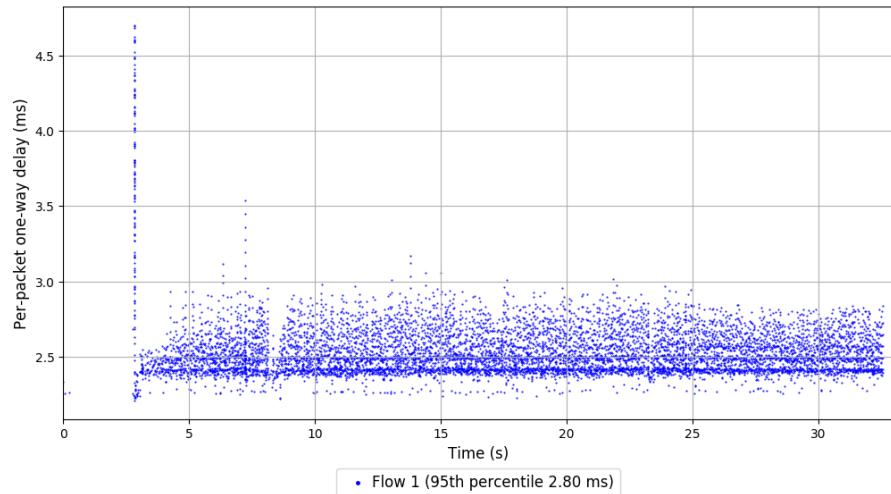
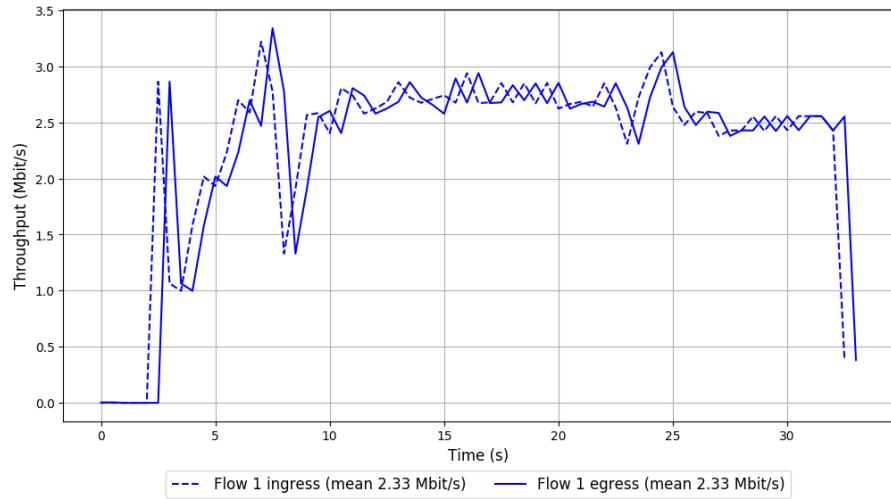


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-19 06:23:12
End at: 2019-01-19 06:23:42
Local clock offset: -7.25 ms
Remote clock offset: 0.943 ms

# Below is generated by plot.py at 2019-01-19 07:32:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 2.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 2.804 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

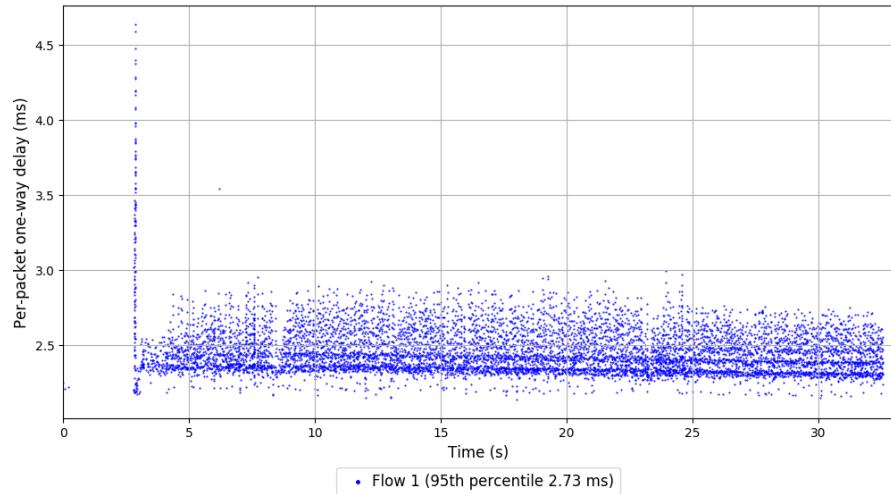
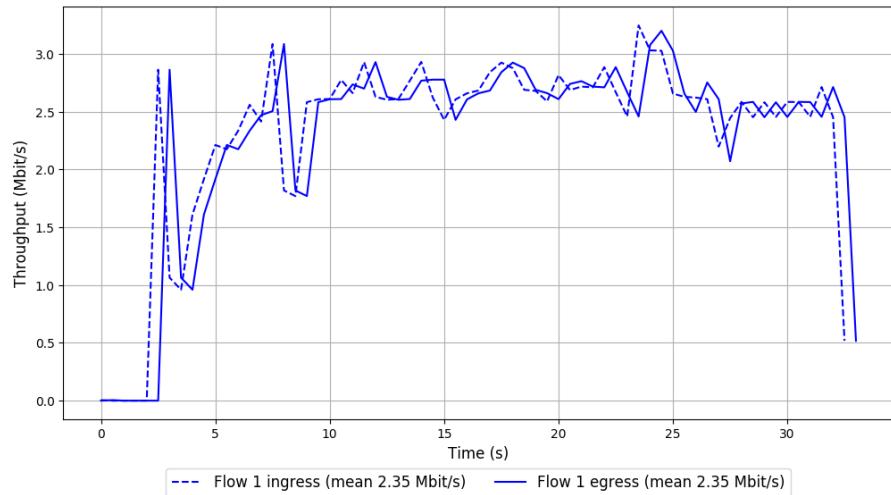


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-19 06:46:56
End at: 2019-01-19 06:47:26
Local clock offset: -7.977 ms
Remote clock offset: 1.083 ms

# Below is generated by plot.py at 2019-01-19 07:32:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.734 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.734 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-19 07:10:43
End at: 2019-01-19 07:11:13
Local clock offset: -7.19 ms
Remote clock offset: 1.126 ms

# Below is generated by plot.py at 2019-01-19 07:32:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 2.857 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 2.857 ms
Loss rate: 0.08%
```

Run 5: Report of WebRTC media — Data Link

