

Pantheon Report

Generated at 2019-02-05 15:10:20 (UTC).
Data path: Colombia on p4p1 (*remote*) → AWS Brazil 2 on ens5 (*local*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

System info:

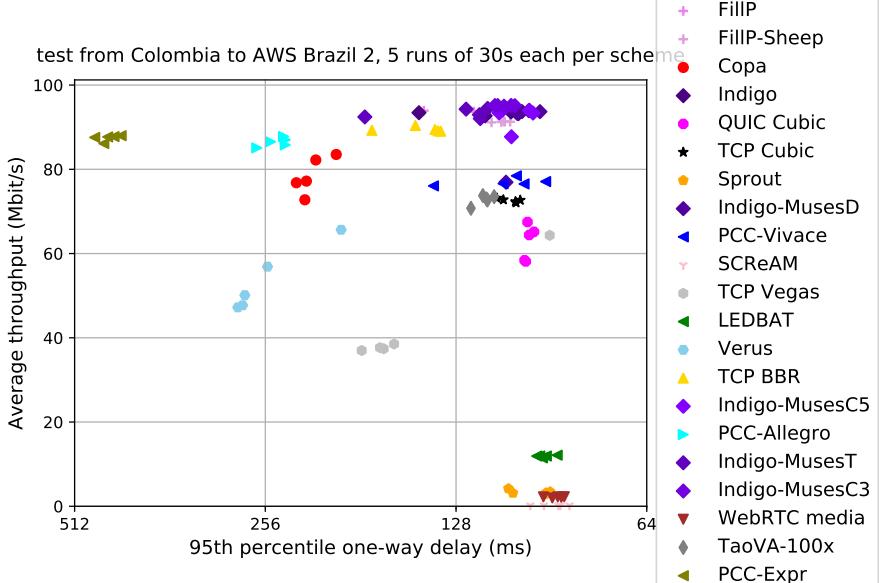
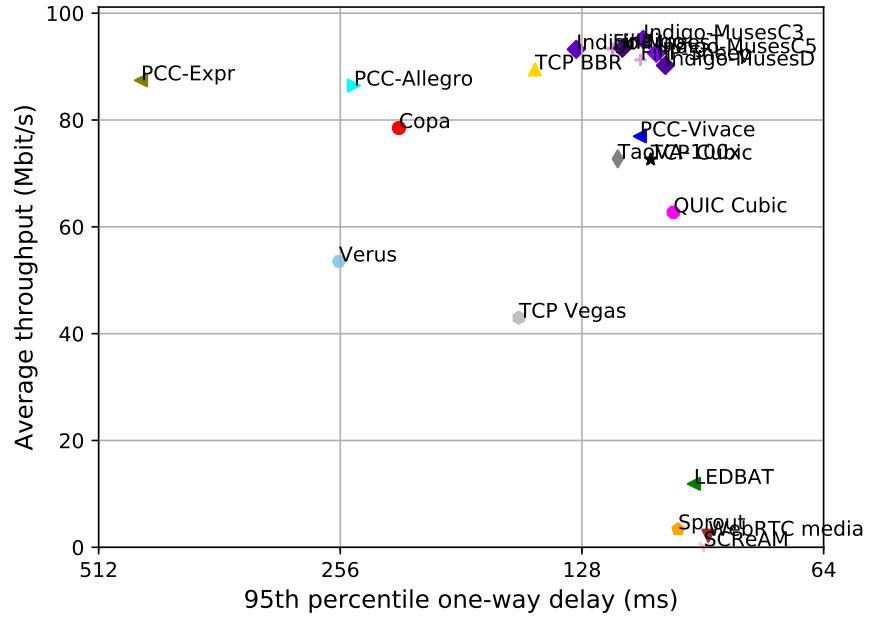
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



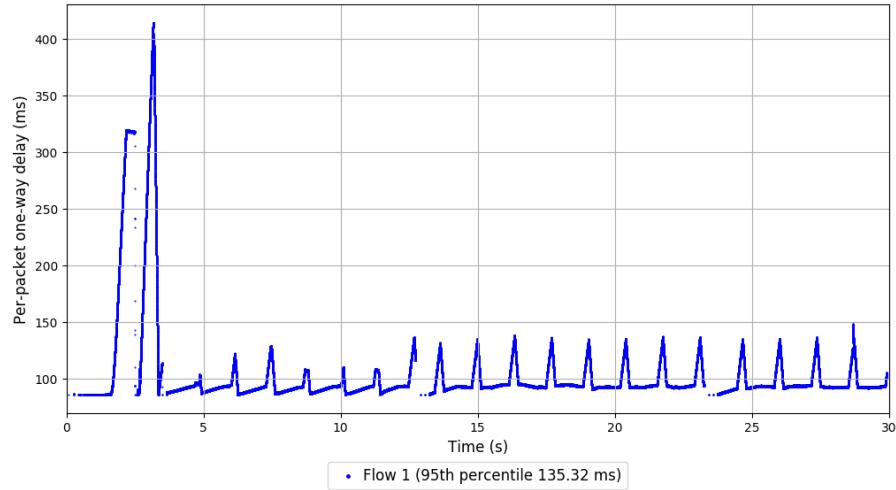
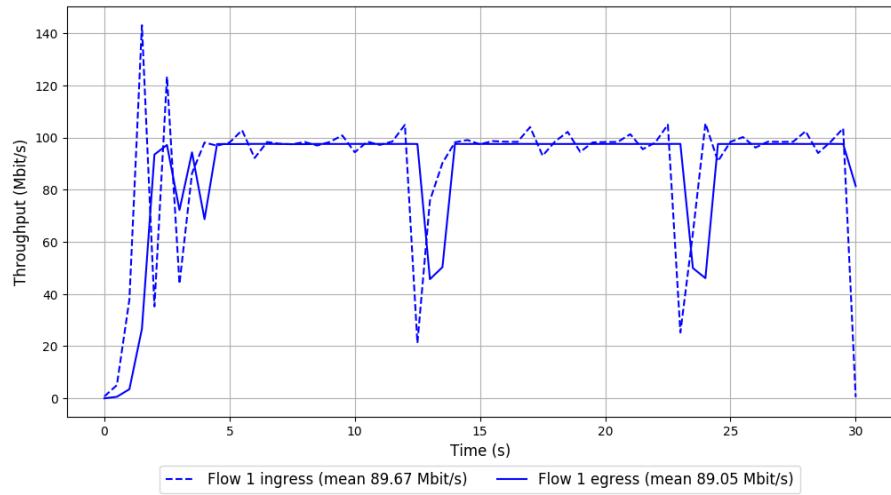
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	89.46	146.46	1.30
Copa	5	78.50	216.37	0.88
TCP Cubic	5	72.61	105.10	0.74
FillP	5	93.34	117.23	0.74
FillP-Sheep	5	91.27	108.23	0.67
Indigo	5	93.44	113.99	0.67
Indigo-MusesC3	5	95.10	107.37	5.37
Indigo-MusesC5	5	92.51	103.41	3.10
Indigo-MusesD	5	90.21	100.76	3.49
Indigo-MusesT	5	93.24	130.12	7.89
LEDBAT	5	11.88	92.85	1.15
PCC-Allegro	5	86.44	246.18	0.74
PCC-Expr	5	87.43	453.32	1.41
QUIC Cubic	5	62.72	98.47	0.84
SCReAM	5	0.22	90.27	0.56
Sprout	5	3.37	97.15	0.86
TaoVA-100x	5	72.74	115.52	0.60
TCP Vegas	5	42.98	153.39	0.74
Verus	5	53.52	257.02	0.70
PCC-Vivace	5	76.95	108.41	0.74
WebRTC media	5	2.17	89.09	0.41

Run 1: Statistics of TCP BBR

```
Start at: 2019-02-05 12:54:46
End at: 2019-02-05 12:55:16
Local clock offset: -6.64 ms
Remote clock offset: 7.459 ms

# Below is generated by plot.py at 2019-02-05 14:59:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.05 Mbit/s
95th percentile per-packet one-way delay: 135.324 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 89.05 Mbit/s
95th percentile per-packet one-way delay: 135.324 ms
Loss rate: 1.26%
```

Run 1: Report of TCP BBR — Data Link

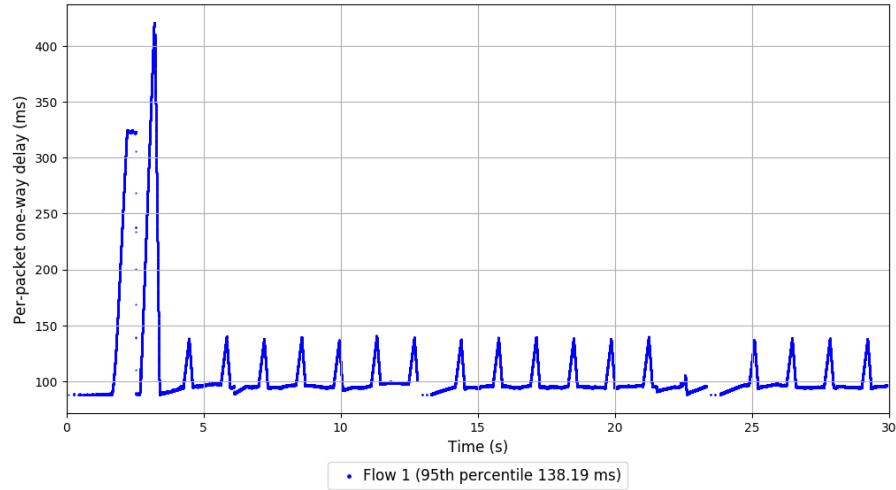
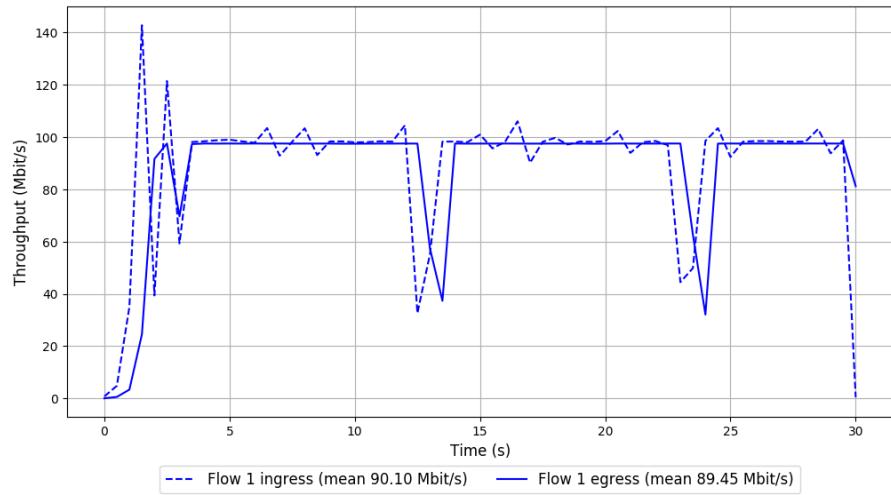


Run 2: Statistics of TCP BBR

```
Start at: 2019-02-05 13:19:44
End at: 2019-02-05 13:20:14
Local clock offset: -6.513 ms
Remote clock offset: 8.383 ms

# Below is generated by plot.py at 2019-02-05 14:59:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.45 Mbit/s
95th percentile per-packet one-way delay: 138.195 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 89.45 Mbit/s
95th percentile per-packet one-way delay: 138.195 ms
Loss rate: 1.30%
```

Run 2: Report of TCP BBR — Data Link

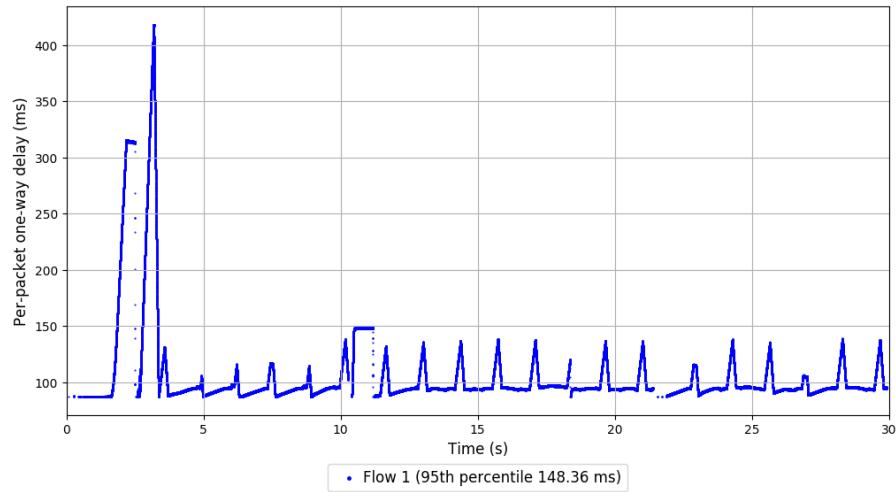
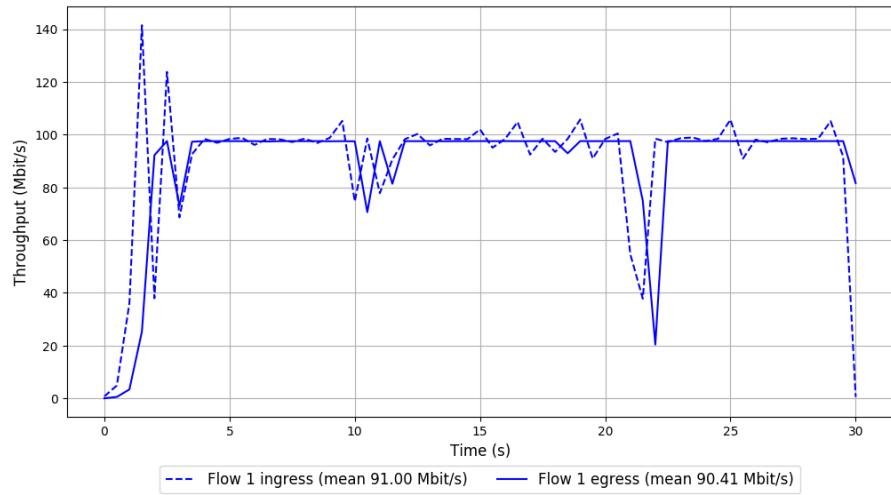


Run 3: Statistics of TCP BBR

```
Start at: 2019-02-05 13:44:40
End at: 2019-02-05 13:45:10
Local clock offset: -6.18 ms
Remote clock offset: 6.272 ms

# Below is generated by plot.py at 2019-02-05 14:59:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.41 Mbit/s
95th percentile per-packet one-way delay: 148.364 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 90.41 Mbit/s
95th percentile per-packet one-way delay: 148.364 ms
Loss rate: 1.22%
```

Run 3: Report of TCP BBR — Data Link

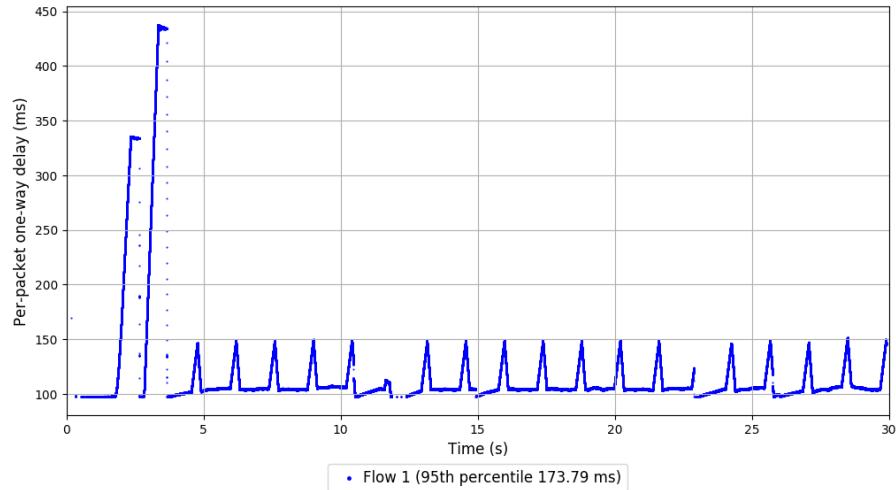
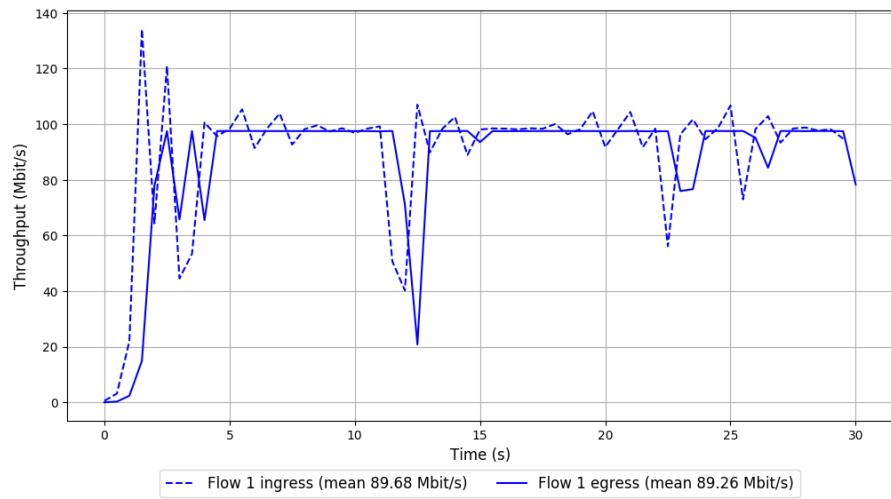


Run 4: Statistics of TCP BBR

```
Start at: 2019-02-05 14:09:40
End at: 2019-02-05 14:10:10
Local clock offset: -0.035 ms
Remote clock offset: 0.79 ms

# Below is generated by plot.py at 2019-02-05 14:59:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.26 Mbit/s
95th percentile per-packet one-way delay: 173.787 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 89.26 Mbit/s
95th percentile per-packet one-way delay: 173.787 ms
Loss rate: 1.30%
```

Run 4: Report of TCP BBR — Data Link

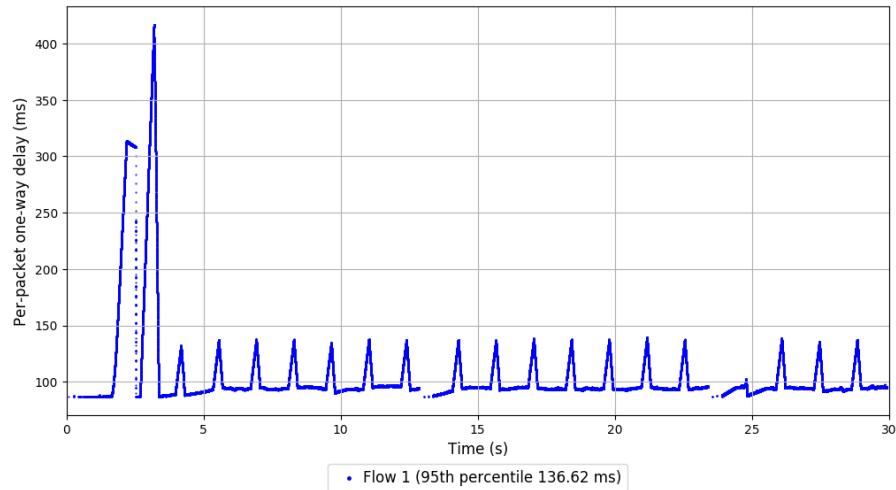
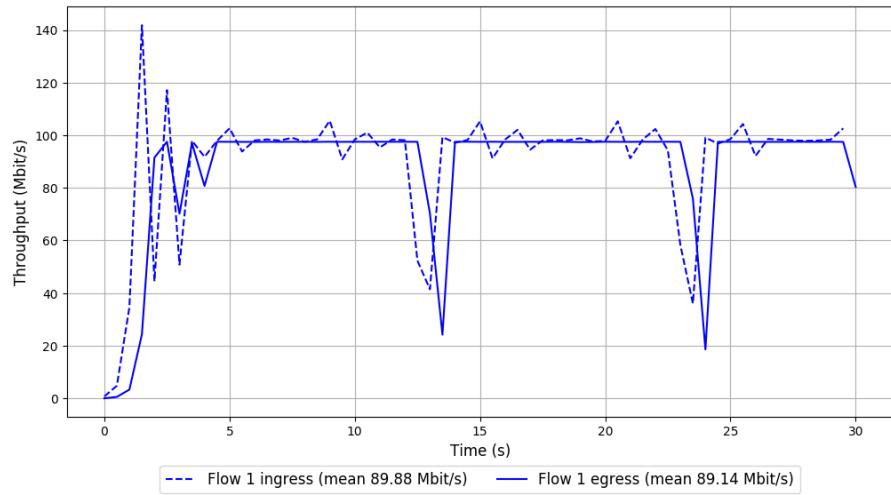


Run 5: Statistics of TCP BBR

```
Start at: 2019-02-05 14:34:37
End at: 2019-02-05 14:35:07
Local clock offset: -6.211 ms
Remote clock offset: 7.449 ms

# Below is generated by plot.py at 2019-02-05 14:59:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.14 Mbit/s
95th percentile per-packet one-way delay: 136.620 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 89.14 Mbit/s
95th percentile per-packet one-way delay: 136.620 ms
Loss rate: 1.40%
```

Run 5: Report of TCP BBR — Data Link

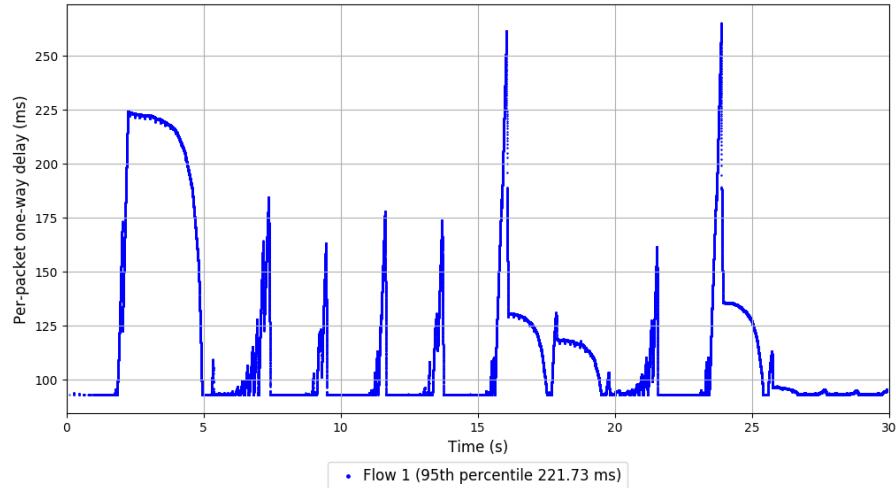
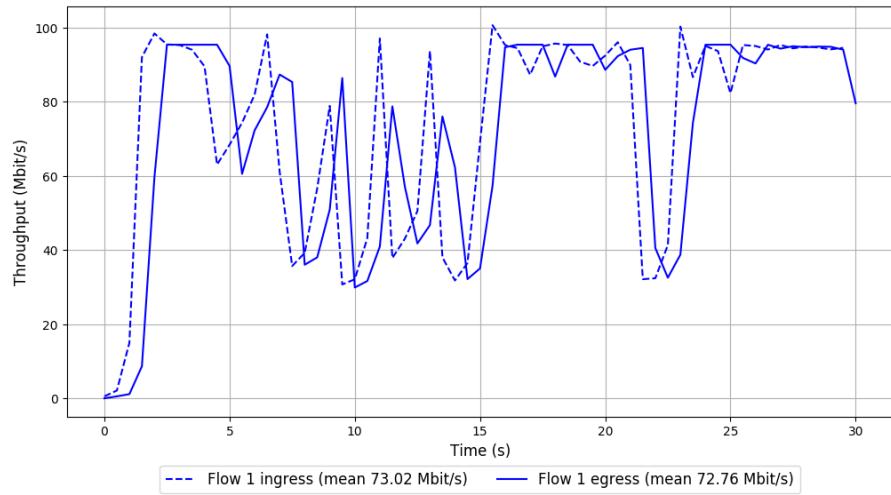


Run 1: Statistics of Copa

```
Start at: 2019-02-05 13:01:55
End at: 2019-02-05 13:02:25
Local clock offset: -6.643 ms
Remote clock offset: 2.619 ms

# Below is generated by plot.py at 2019-02-05 15:00:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.76 Mbit/s
95th percentile per-packet one-way delay: 221.728 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 72.76 Mbit/s
95th percentile per-packet one-way delay: 221.728 ms
Loss rate: 0.91%
```

Run 1: Report of Copa — Data Link

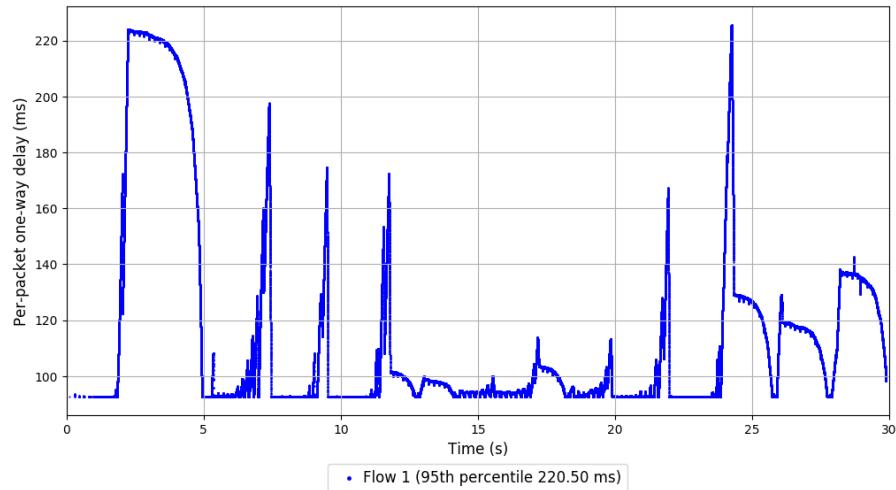
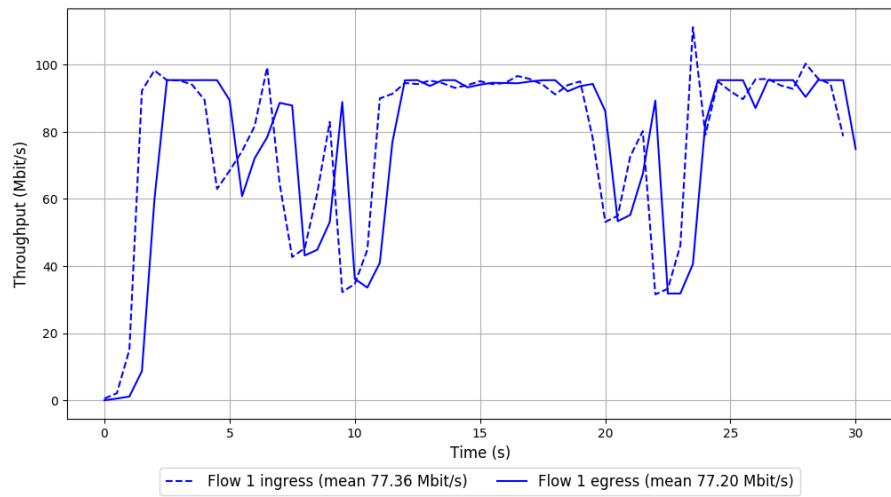


Run 2: Statistics of Copa

```
Start at: 2019-02-05 13:26:51
End at: 2019-02-05 13:27:21
Local clock offset: -6.262 ms
Remote clock offset: 2.926 ms

# Below is generated by plot.py at 2019-02-05 15:00:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.20 Mbit/s
95th percentile per-packet one-way delay: 220.498 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 77.20 Mbit/s
95th percentile per-packet one-way delay: 220.498 ms
Loss rate: 0.78%
```

Run 2: Report of Copa — Data Link

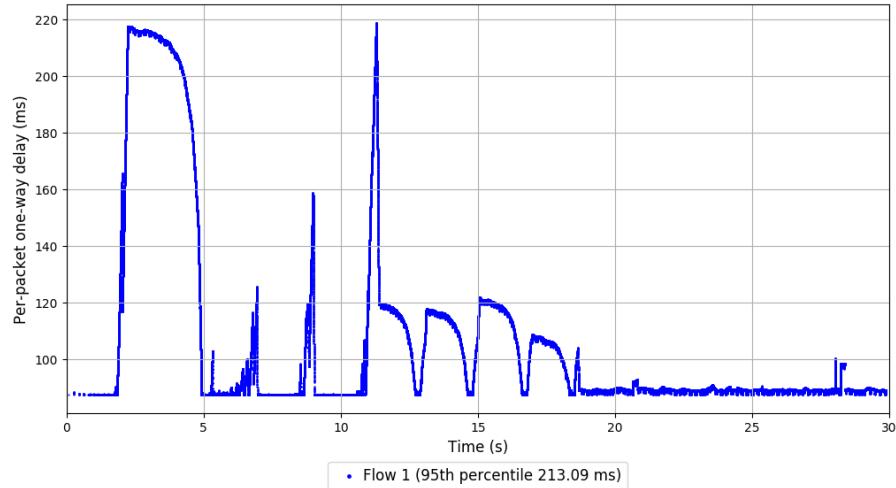
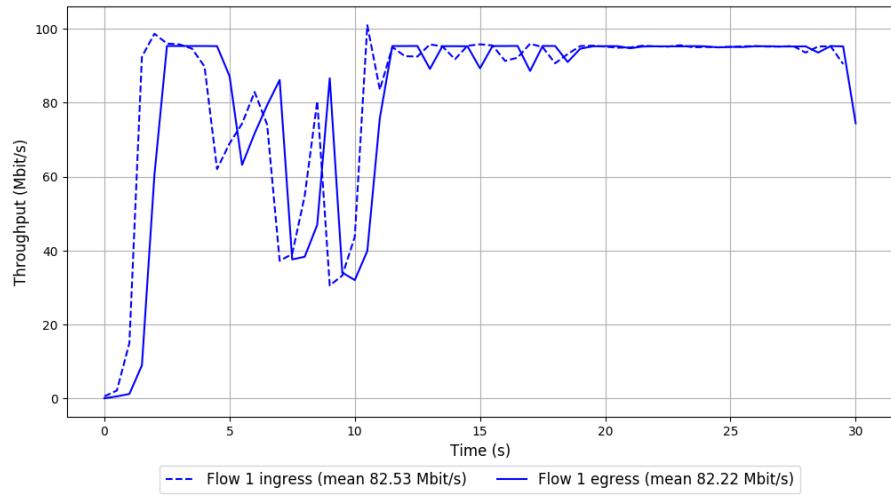


Run 3: Statistics of Copa

```
Start at: 2019-02-05 13:51:48
End at: 2019-02-05 13:52:18
Local clock offset: -3.361 ms
Remote clock offset: 7.916 ms

# Below is generated by plot.py at 2019-02-05 15:00:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.22 Mbit/s
95th percentile per-packet one-way delay: 213.090 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 82.22 Mbit/s
95th percentile per-packet one-way delay: 213.090 ms
Loss rate: 0.95%
```

Run 3: Report of Copa — Data Link

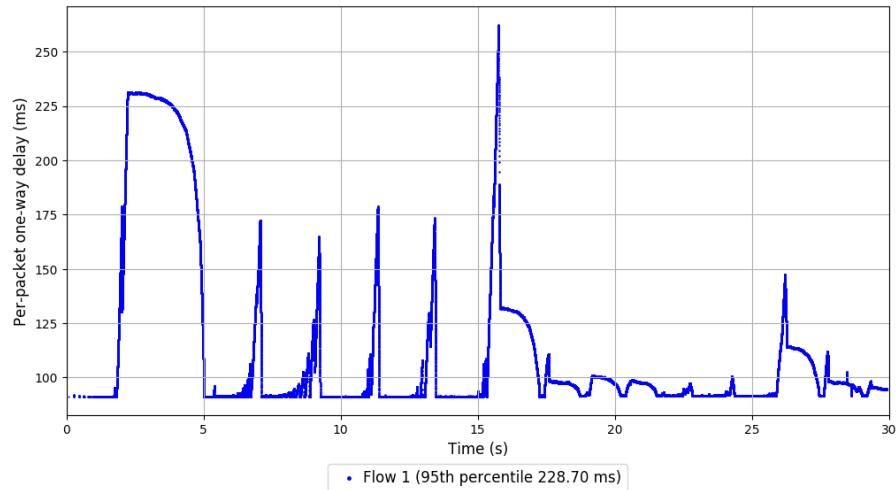
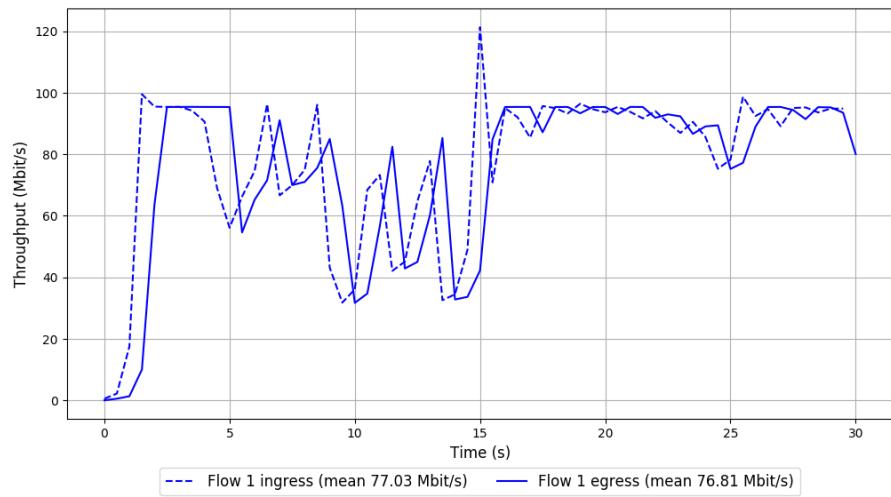


Run 4: Statistics of Copa

```
Start at: 2019-02-05 14:16:48
End at: 2019-02-05 14:17:18
Local clock offset: 0.095 ms
Remote clock offset: 0.885 ms

# Below is generated by plot.py at 2019-02-05 15:00:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.81 Mbit/s
95th percentile per-packet one-way delay: 228.701 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 76.81 Mbit/s
95th percentile per-packet one-way delay: 228.701 ms
Loss rate: 0.85%
```

Run 4: Report of Copa — Data Link

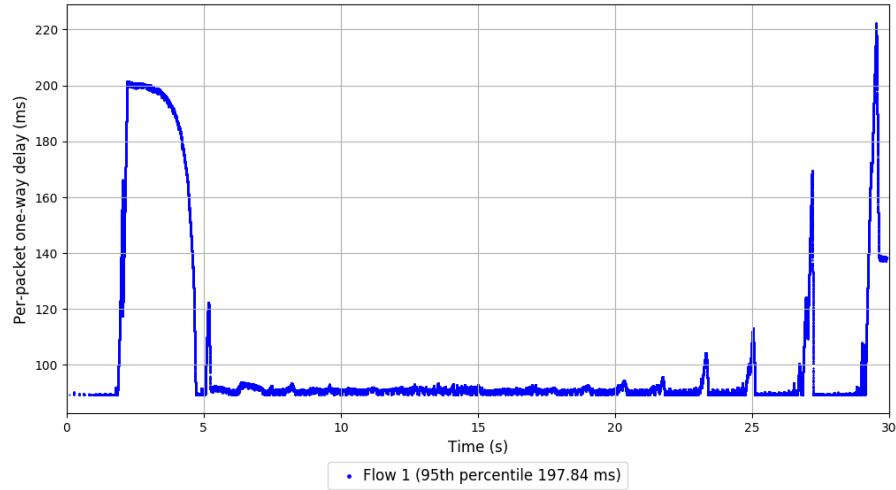
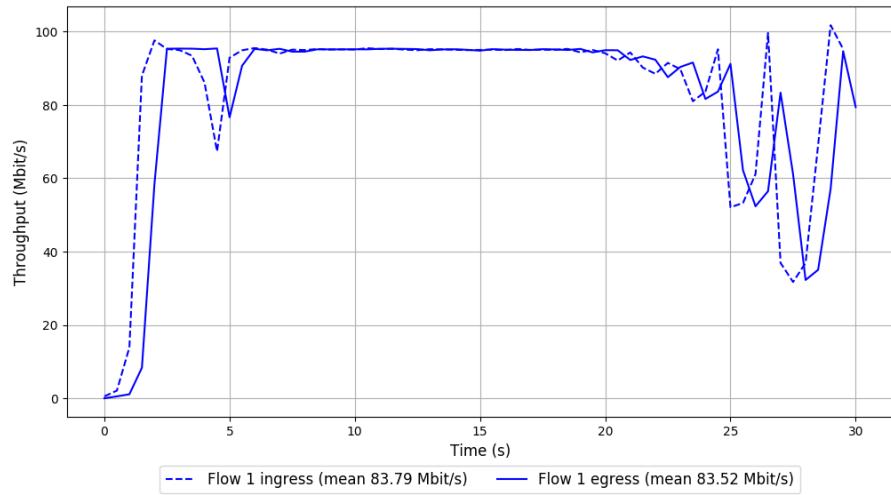


Run 5: Statistics of Copa

```
Start at: 2019-02-05 14:41:44
End at: 2019-02-05 14:42:14
Local clock offset: -6.84 ms
Remote clock offset: 5.572 ms

# Below is generated by plot.py at 2019-02-05 15:01:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.52 Mbit/s
95th percentile per-packet one-way delay: 197.838 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 83.52 Mbit/s
95th percentile per-packet one-way delay: 197.838 ms
Loss rate: 0.89%
```

Run 5: Report of Copa — Data Link

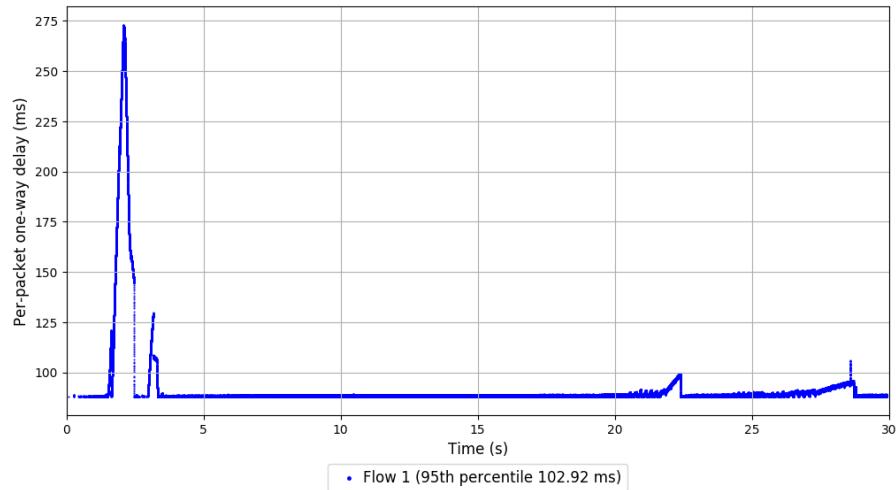
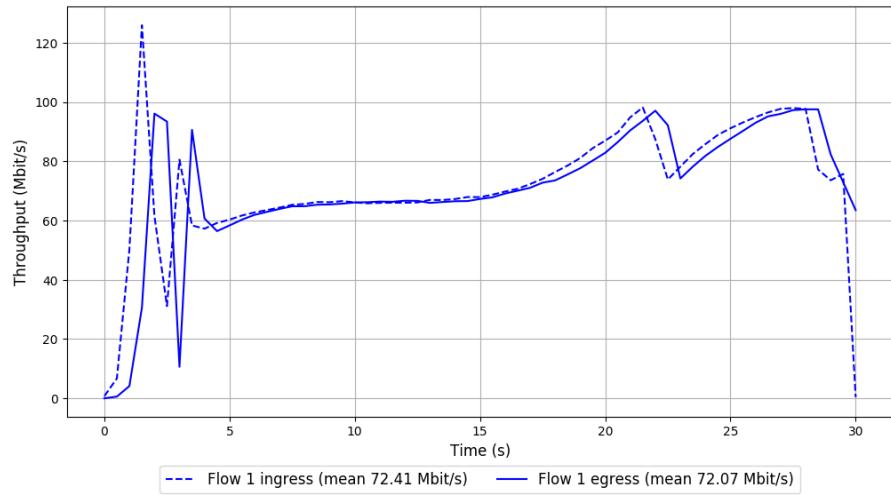


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-02-05 13:10:23
End at: 2019-02-05 13:10:53
Local clock offset: -6.738 ms
Remote clock offset: 7.928 ms

# Below is generated by plot.py at 2019-02-05 15:01:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.07 Mbit/s
95th percentile per-packet one-way delay: 102.921 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 72.07 Mbit/s
95th percentile per-packet one-way delay: 102.921 ms
Loss rate: 1.04%
```

Run 1: Report of TCP Cubic — Data Link

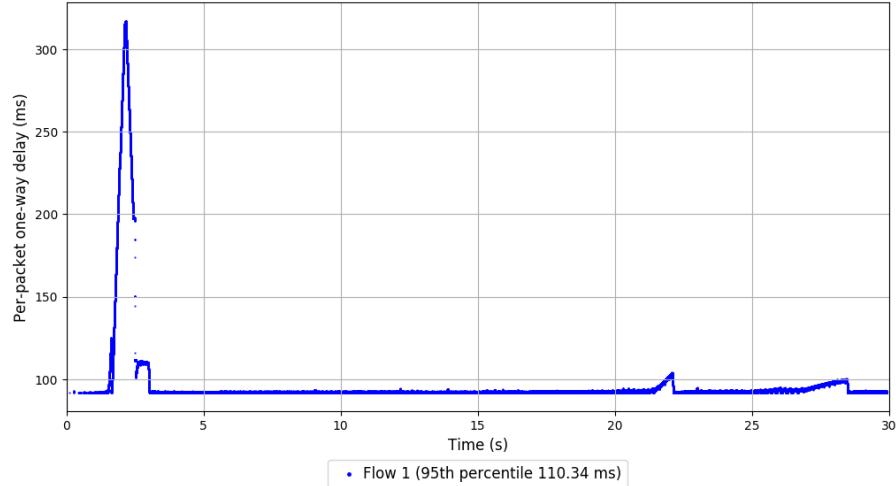
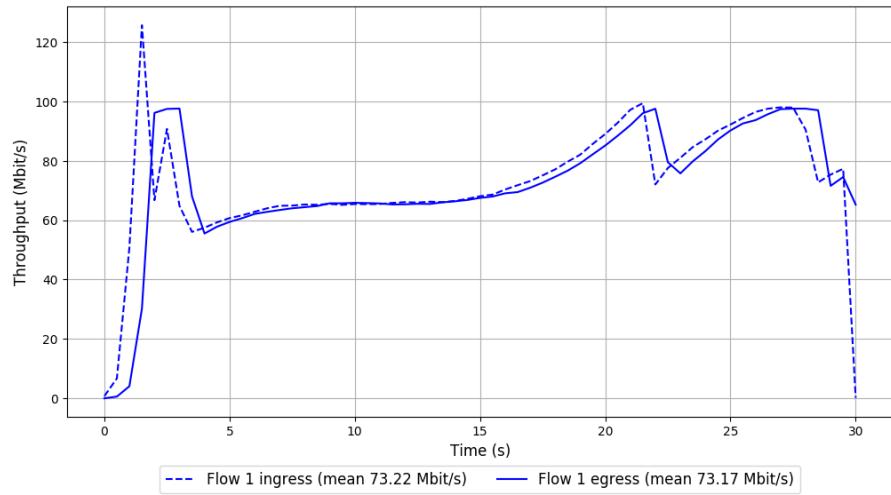


Run 2: Statistics of TCP Cubic

```
Start at: 2019-02-05 13:35:21
End at: 2019-02-05 13:35:51
Local clock offset: -6.151 ms
Remote clock offset: 3.563 ms

# Below is generated by plot.py at 2019-02-05 15:01:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.17 Mbit/s
95th percentile per-packet one-way delay: 110.344 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 73.17 Mbit/s
95th percentile per-packet one-way delay: 110.344 ms
Loss rate: 0.64%
```

Run 2: Report of TCP Cubic — Data Link

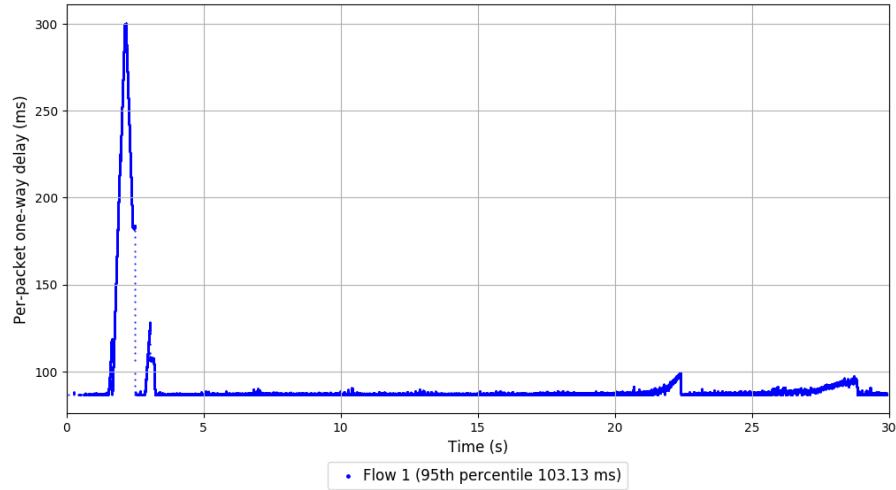
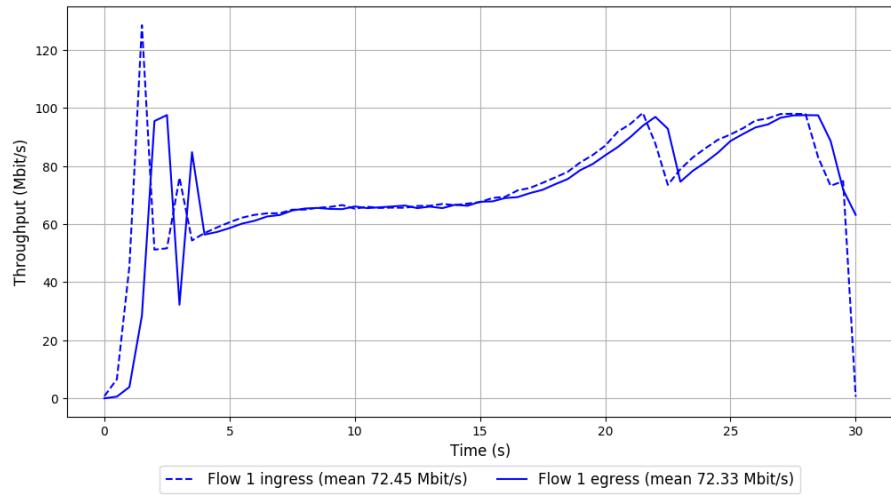


Run 3: Statistics of TCP Cubic

```
Start at: 2019-02-05 14:00:18
End at: 2019-02-05 14:00:48
Local clock offset: -1.22 ms
Remote clock offset: 7.888 ms

# Below is generated by plot.py at 2019-02-05 15:01:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.33 Mbit/s
95th percentile per-packet one-way delay: 103.133 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 72.33 Mbit/s
95th percentile per-packet one-way delay: 103.133 ms
Loss rate: 0.73%
```

Run 3: Report of TCP Cubic — Data Link

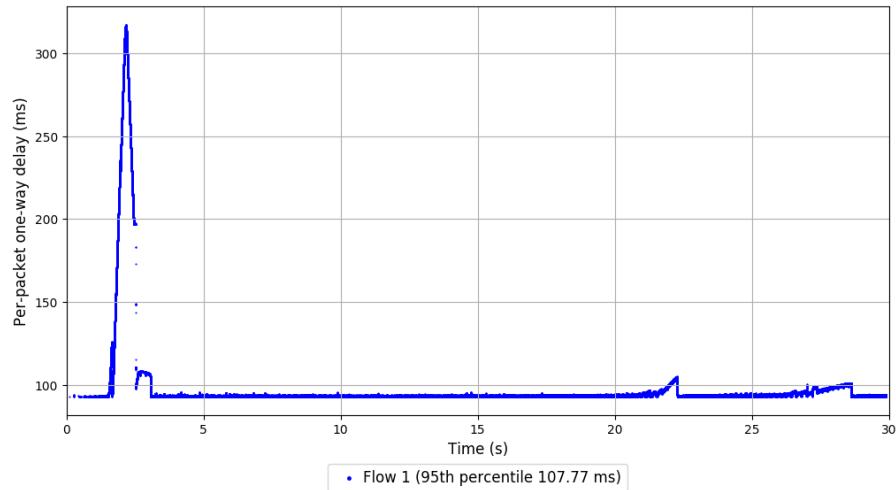
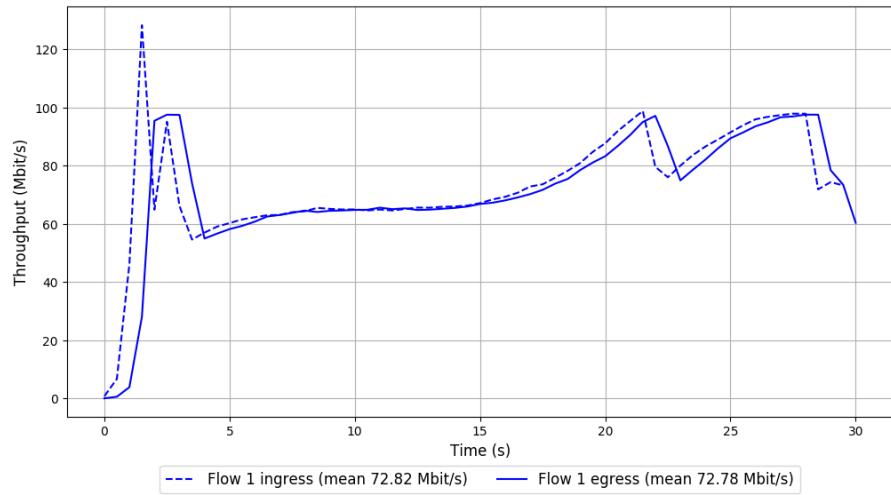


Run 4: Statistics of TCP Cubic

```
Start at: 2019-02-05 14:25:17
End at: 2019-02-05 14:25:47
Local clock offset: -4.235 ms
Remote clock offset: 0.593 ms

# Below is generated by plot.py at 2019-02-05 15:01:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.78 Mbit/s
95th percentile per-packet one-way delay: 107.767 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.78 Mbit/s
95th percentile per-packet one-way delay: 107.767 ms
Loss rate: 0.64%
```

Run 4: Report of TCP Cubic — Data Link

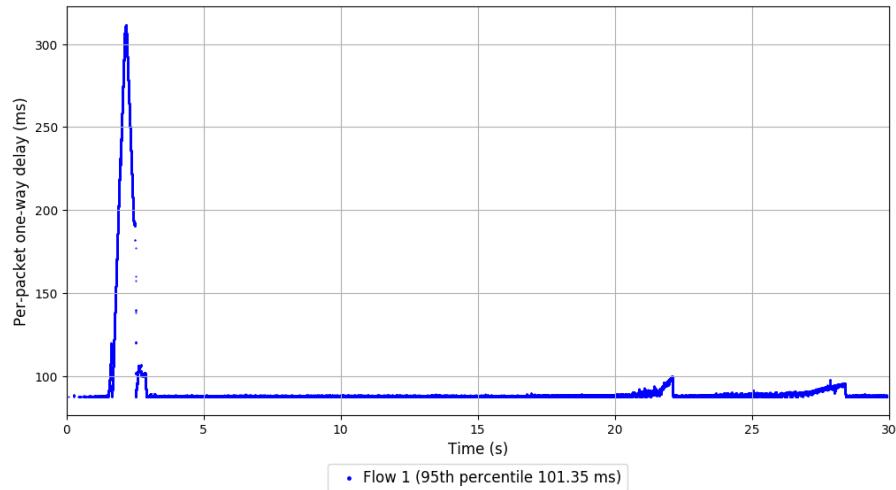
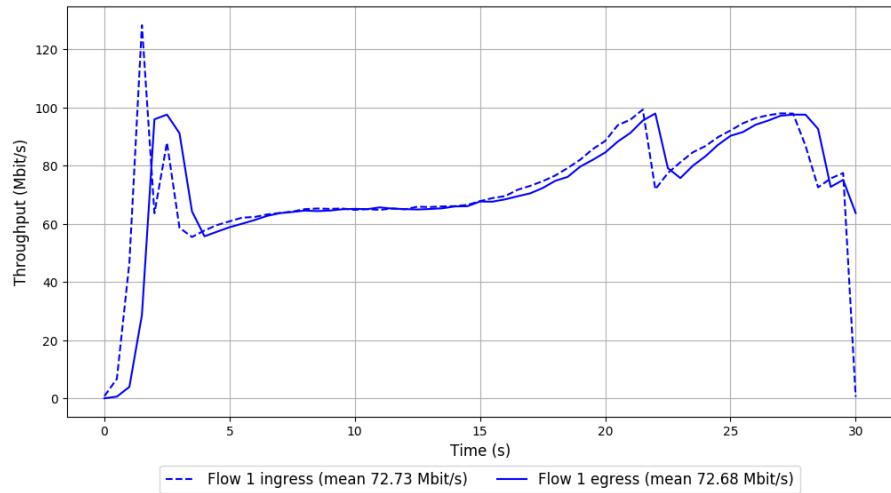


Run 5: Statistics of TCP Cubic

```
Start at: 2019-02-05 14:50:14
End at: 2019-02-05 14:50:44
Local clock offset: -4.861 ms
Remote clock offset: 7.06 ms

# Below is generated by plot.py at 2019-02-05 15:01:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.68 Mbit/s
95th percentile per-packet one-way delay: 101.353 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 72.68 Mbit/s
95th percentile per-packet one-way delay: 101.353 ms
Loss rate: 0.65%
```

Run 5: Report of TCP Cubic — Data Link

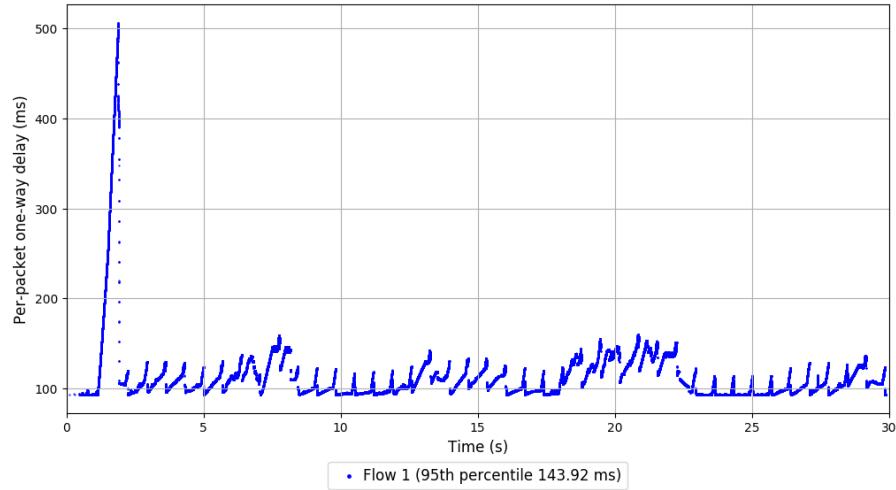
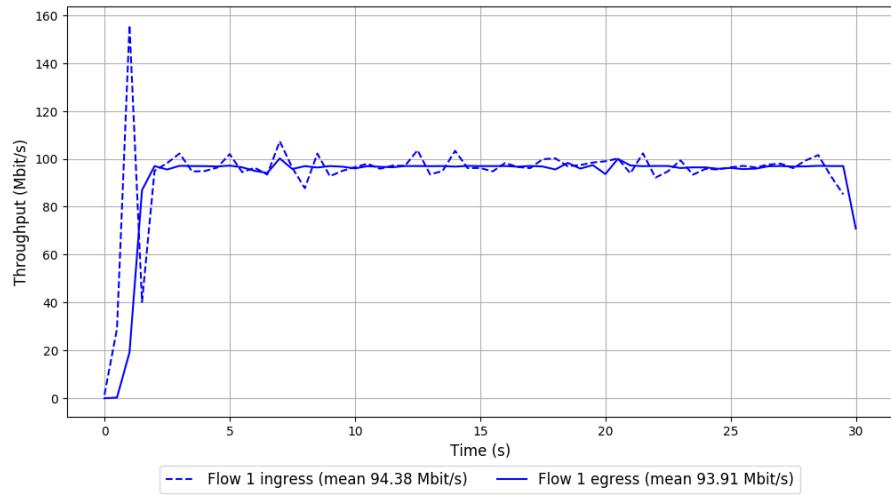


```
Run 1: Statistics of FillP
```

```
Start at: 2019-02-05 12:55:59
End at: 2019-02-05 12:56:29
Local clock offset: -6.634 ms
Remote clock offset: 2.363 ms

# Below is generated by plot.py at 2019-02-05 15:01:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 143.921 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 143.921 ms
Loss rate: 1.07%
```

Run 1: Report of FillP — Data Link

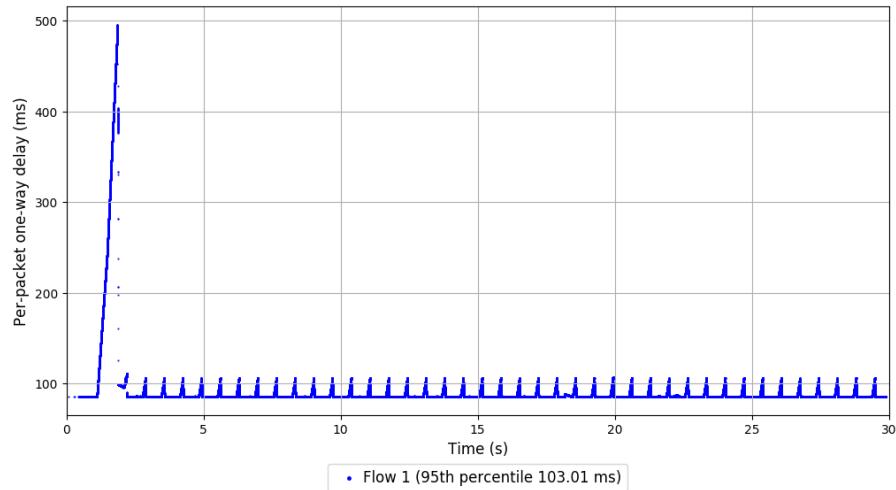
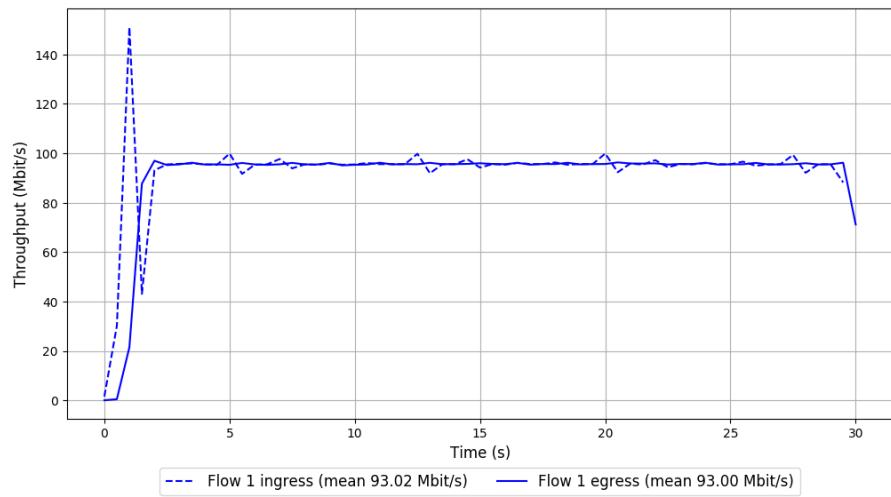


Run 2: Statistics of FillP

```
Start at: 2019-02-05 13:20:57
End at: 2019-02-05 13:21:27
Local clock offset: -6.442 ms
Remote clock offset: 8.425 ms

# Below is generated by plot.py at 2019-02-05 15:01:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.00 Mbit/s
95th percentile per-packet one-way delay: 103.008 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 93.00 Mbit/s
95th percentile per-packet one-way delay: 103.008 ms
Loss rate: 0.60%
```

Run 2: Report of FillP — Data Link

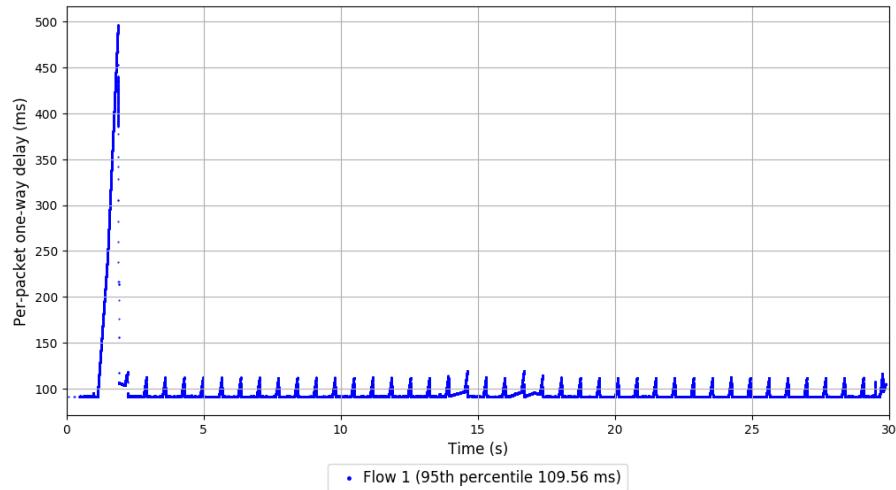
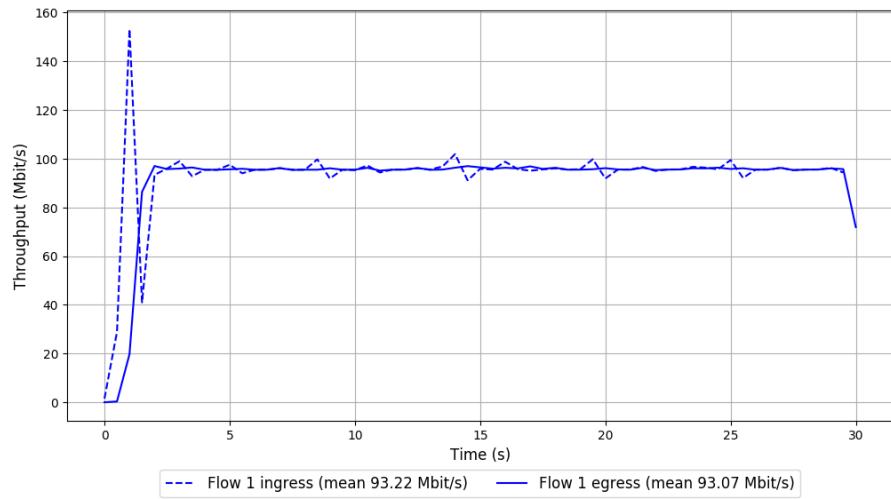


Run 3: Statistics of FillP

```
Start at: 2019-02-05 13:45:53
End at: 2019-02-05 13:46:23
Local clock offset: -6.101 ms
Remote clock offset: 3.862 ms

# Below is generated by plot.py at 2019-02-05 15:01:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 109.563 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 109.563 ms
Loss rate: 0.74%
```

Run 3: Report of FillP — Data Link

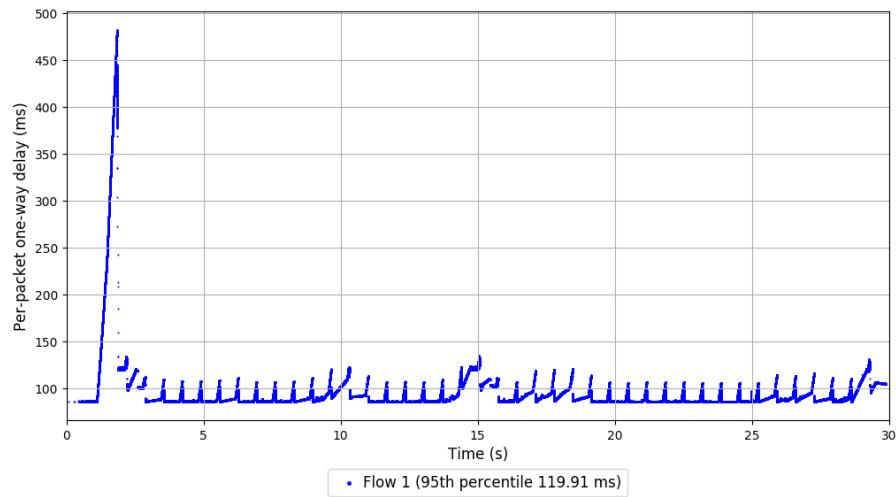
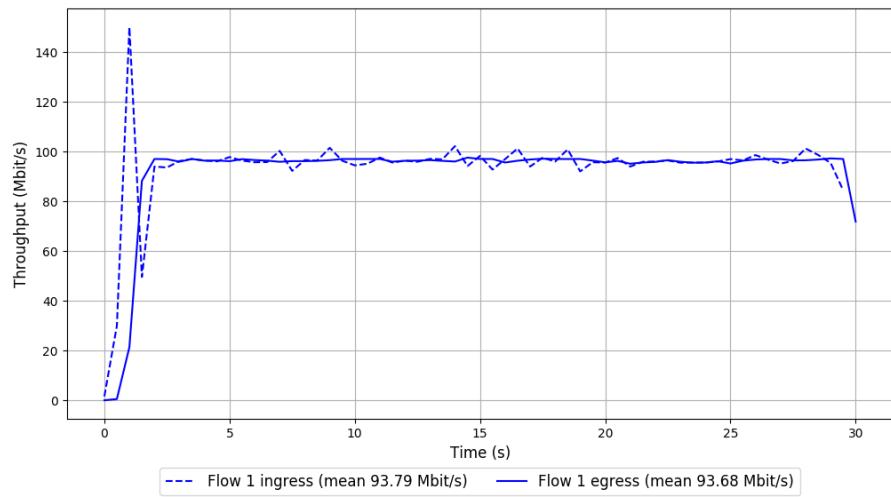


Run 4: Statistics of FillP

```
Start at: 2019-02-05 14:10:53
End at: 2019-02-05 14:11:23
Local clock offset: 0.078 ms
Remote clock offset: 5.979 ms

# Below is generated by plot.py at 2019-02-05 15:01:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 119.911 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 119.911 ms
Loss rate: 0.68%
```

Run 4: Report of FillP — Data Link

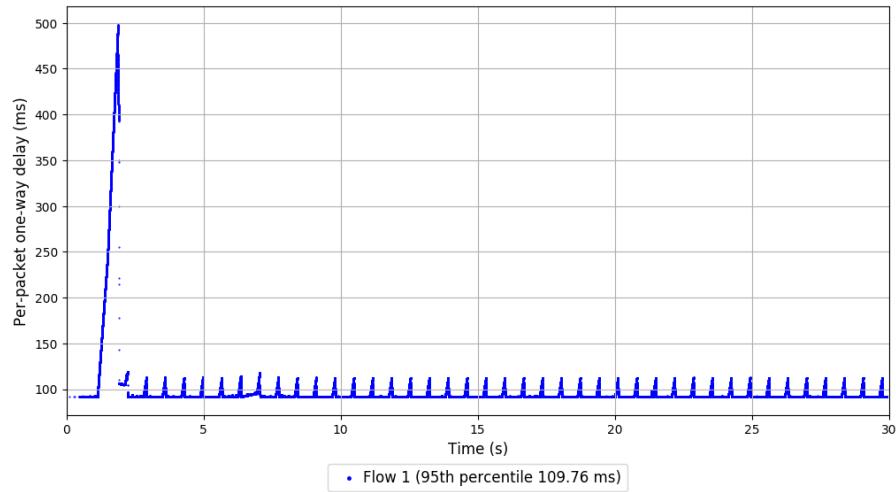
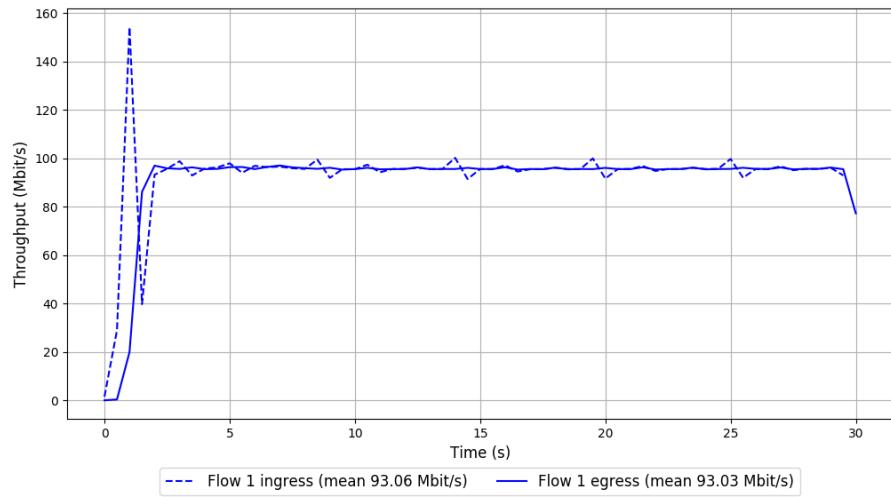


Run 5: Statistics of FillP

```
Start at: 2019-02-05 14:35:49
End at: 2019-02-05 14:36:19
Local clock offset: -6.284 ms
Remote clock offset: 2.553 ms

# Below is generated by plot.py at 2019-02-05 15:02:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 109.757 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 109.757 ms
Loss rate: 0.61%
```

Run 5: Report of FillP — Data Link

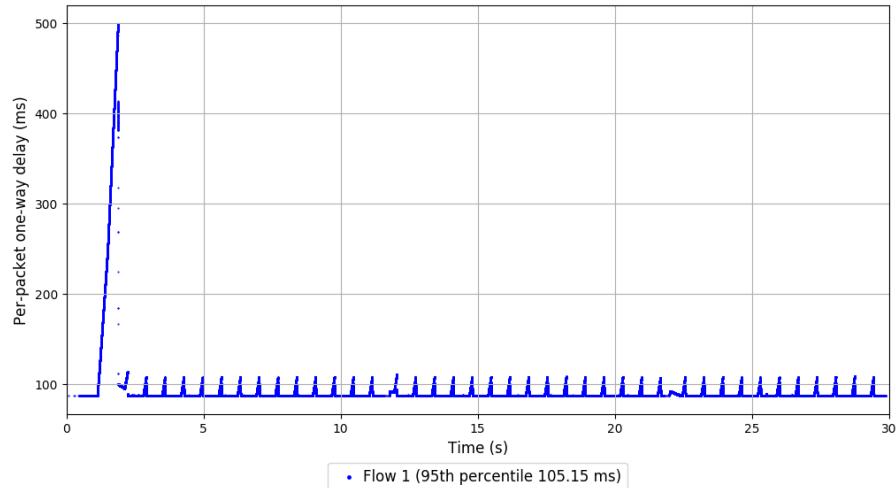
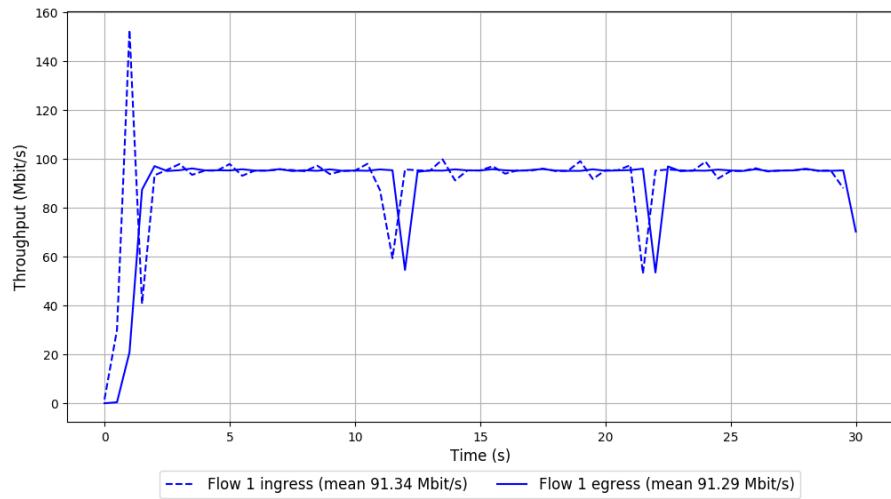


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-02-05 13:06:47
End at: 2019-02-05 13:07:17
Local clock offset: -6.66 ms
Remote clock offset: 8.015 ms

# Below is generated by plot.py at 2019-02-05 15:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.29 Mbit/s
95th percentile per-packet one-way delay: 105.152 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 91.29 Mbit/s
95th percentile per-packet one-way delay: 105.152 ms
Loss rate: 0.64%
```

Run 1: Report of FillP-Sheep — Data Link

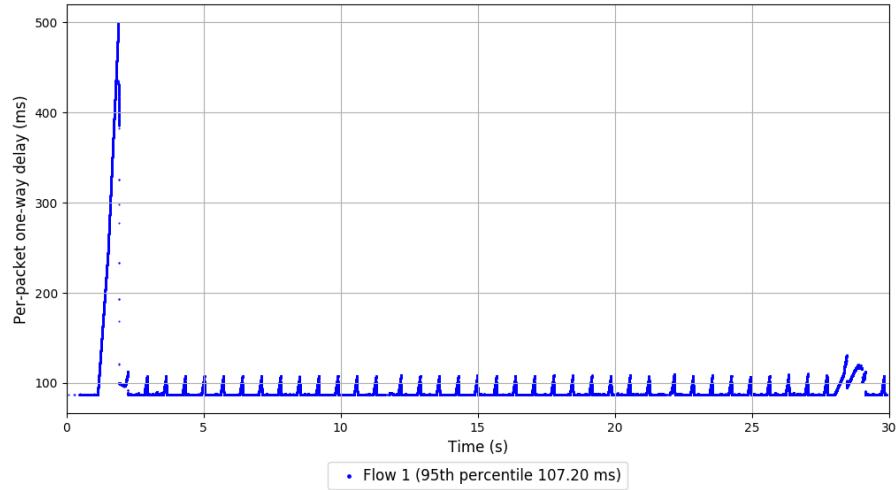
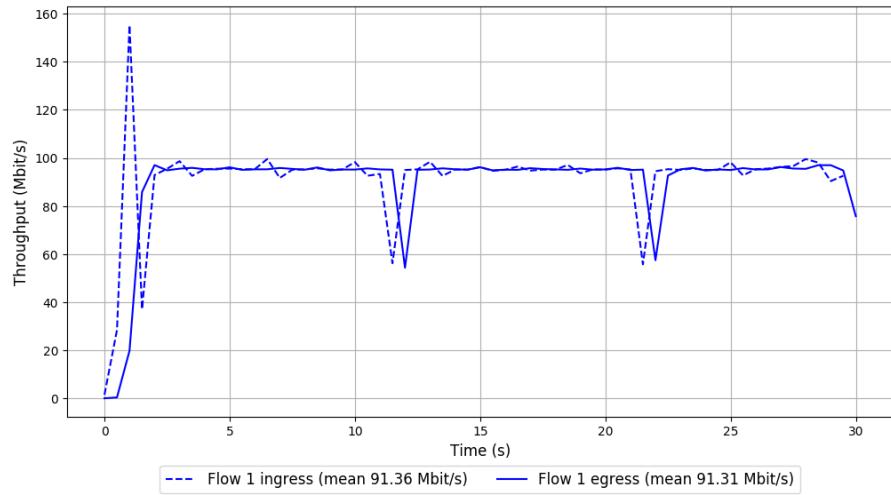


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-02-05 13:31:44
End at: 2019-02-05 13:32:14
Local clock offset: -6.174 ms
Remote clock offset: 8.683 ms

# Below is generated by plot.py at 2019-02-05 15:02:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 107.205 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 107.205 ms
Loss rate: 0.63%
```

Run 2: Report of FillP-Sheep — Data Link

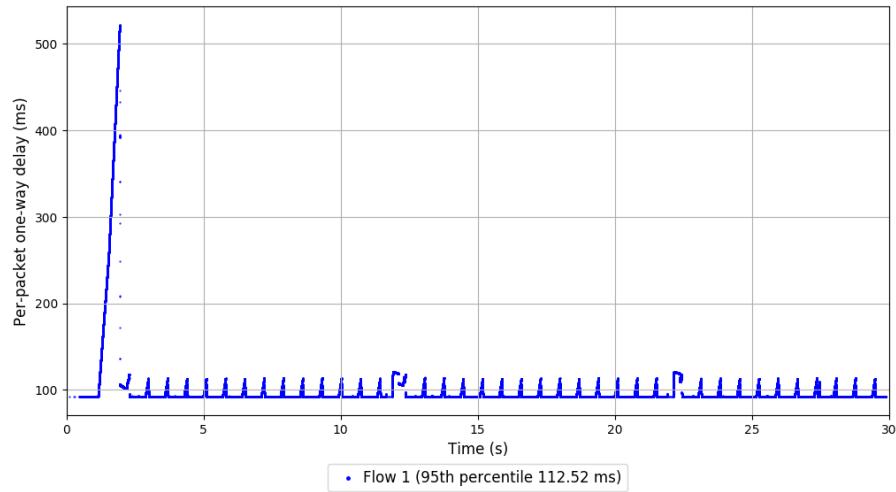
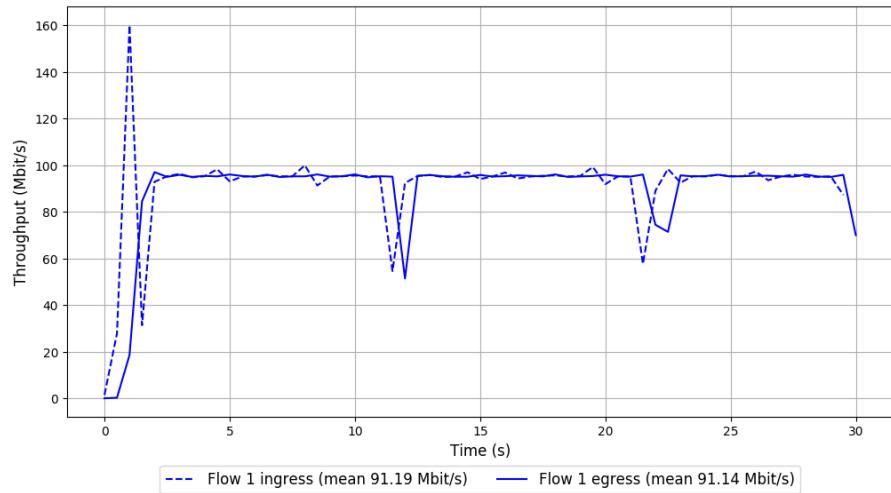


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-02-05 13:56:41
End at: 2019-02-05 13:57:11
Local clock offset: -1.97 ms
Remote clock offset: 7.211 ms

# Below is generated by plot.py at 2019-02-05 15:02:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 112.517 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 112.517 ms
Loss rate: 0.64%
```

Run 3: Report of FillP-Sheep — Data Link

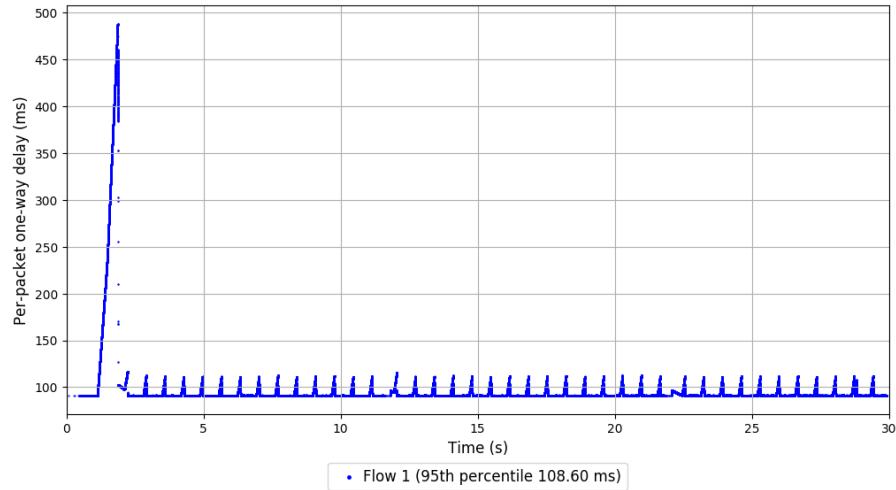
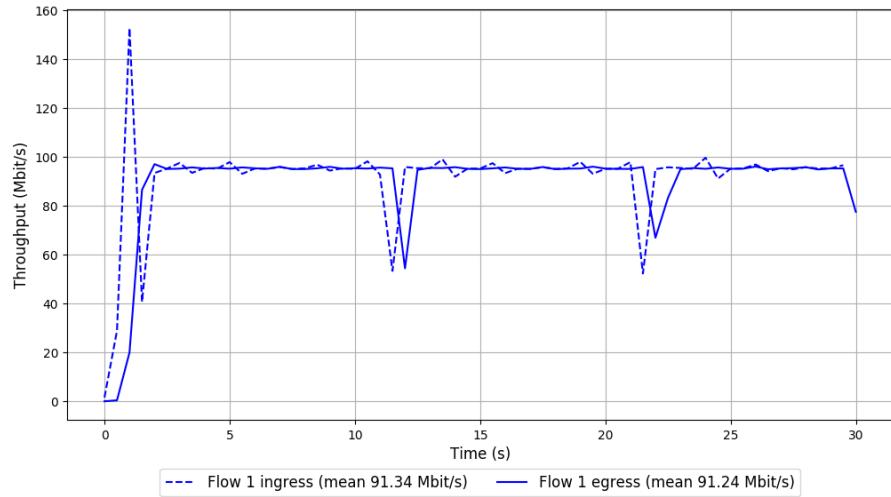


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-02-05 14:21:40
End at: 2019-02-05 14:22:10
Local clock offset: -2.879 ms
Remote clock offset: 0.605 ms

# Below is generated by plot.py at 2019-02-05 15:02:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: 108.597 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: 108.597 ms
Loss rate: 0.68%
```

Run 4: Report of FillP-Sheep — Data Link

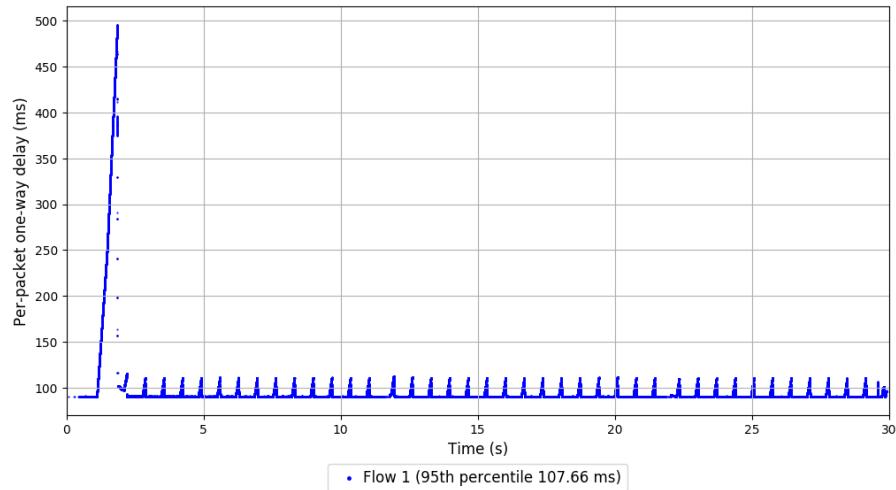
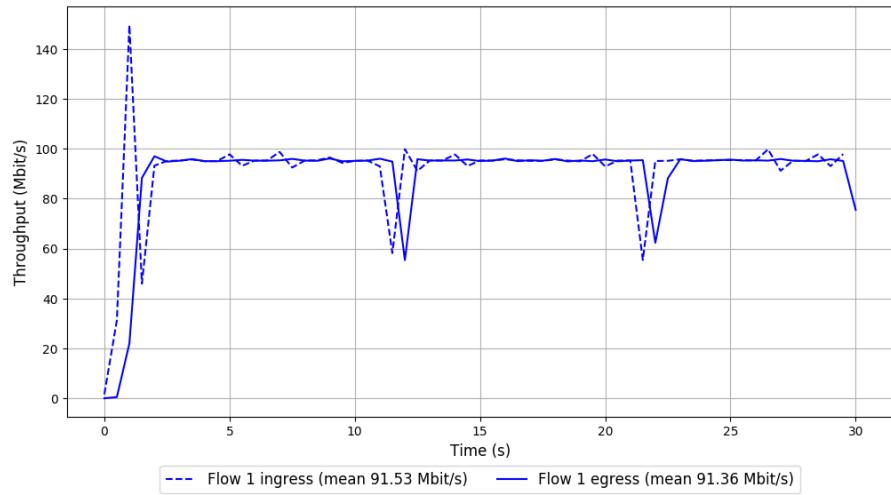


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-02-05 14:46:37
End at: 2019-02-05 14:47:07
Local clock offset: -6.784 ms
Remote clock offset: 1.882 ms

# Below is generated by plot.py at 2019-02-05 15:02:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 107.661 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 107.661 ms
Loss rate: 0.75%
```

Run 5: Report of FillP-Sheep — Data Link

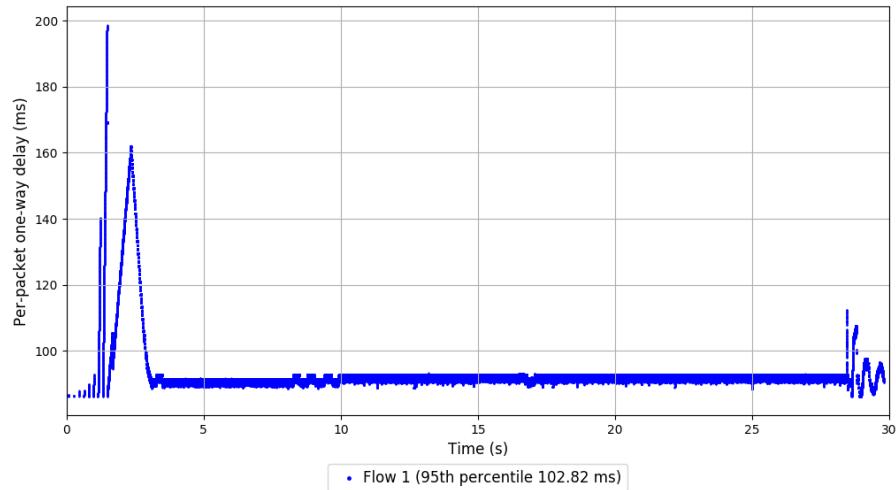
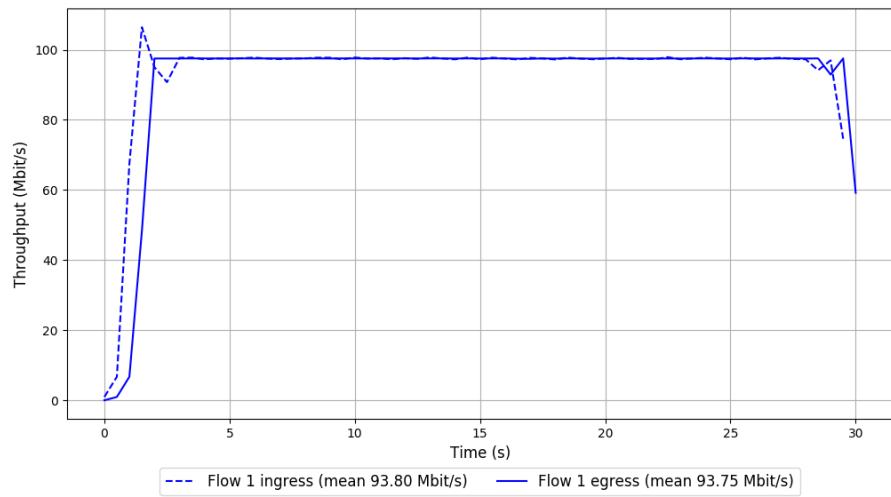


Run 1: Statistics of Indigo

```
Start at: 2019-02-05 13:03:08
End at: 2019-02-05 13:03:38
Local clock offset: -6.627 ms
Remote clock offset: 7.47 ms

# Below is generated by plot.py at 2019-02-05 15:02:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 102.819 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 102.819 ms
Loss rate: 0.63%
```

Run 1: Report of Indigo — Data Link

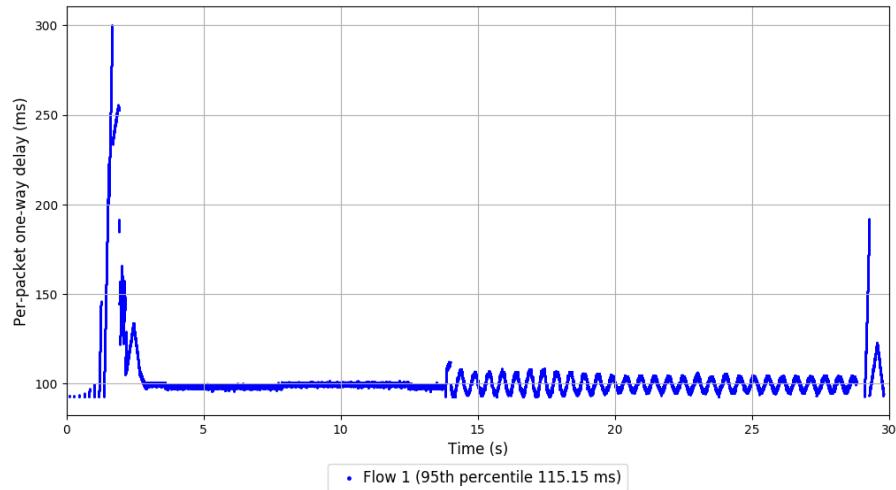
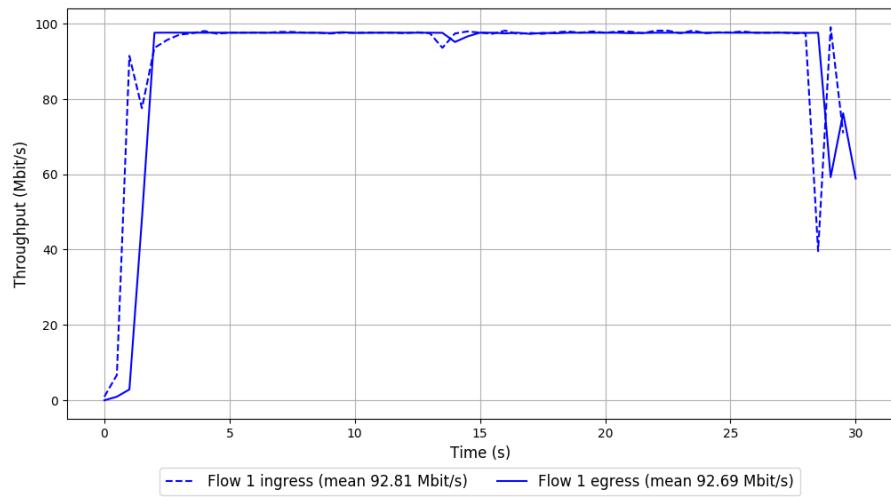


Run 2: Statistics of Indigo

```
Start at: 2019-02-05 13:28:05
End at: 2019-02-05 13:28:35
Local clock offset: -6.233 ms
Remote clock offset: 2.781 ms

# Below is generated by plot.py at 2019-02-05 15:02:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.69 Mbit/s
95th percentile per-packet one-way delay: 115.150 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 92.69 Mbit/s
95th percentile per-packet one-way delay: 115.150 ms
Loss rate: 0.70%
```

Run 2: Report of Indigo — Data Link

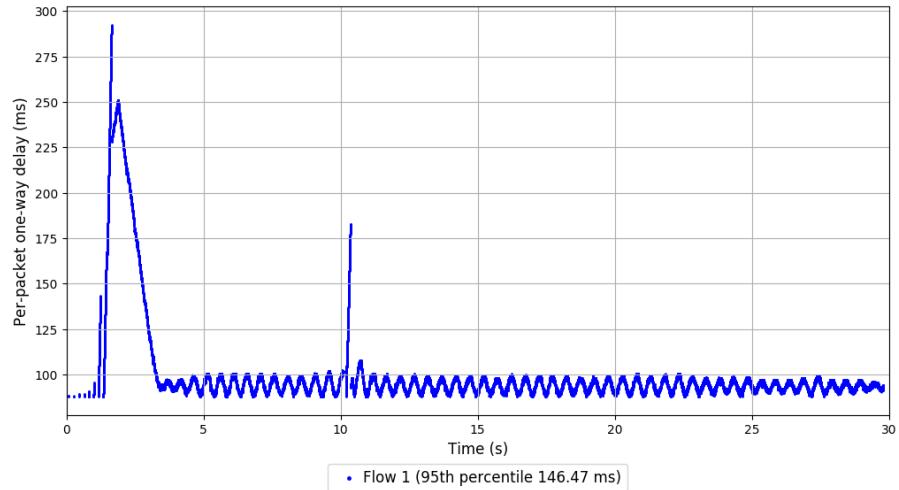
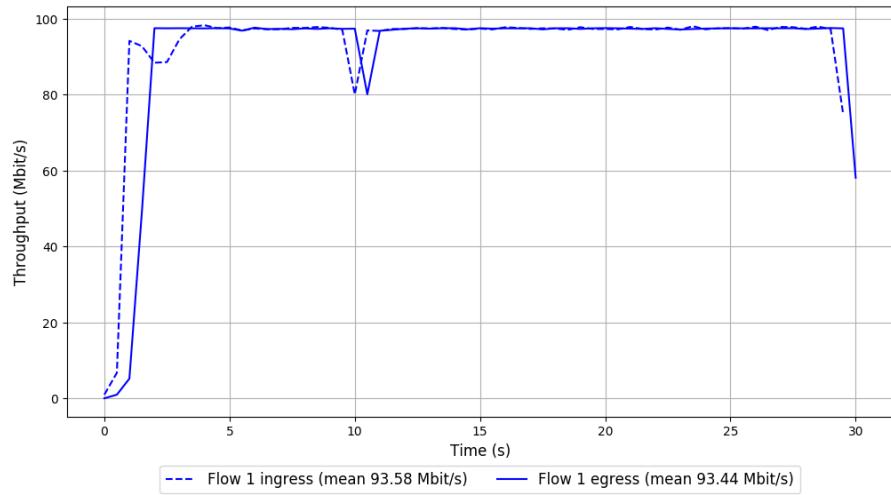


Run 3: Statistics of Indigo

```
Start at: 2019-02-05 13:53:02
End at: 2019-02-05 13:53:32
Local clock offset: -3.004 ms
Remote clock offset: 7.904 ms

# Below is generated by plot.py at 2019-02-05 15:03:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.44 Mbit/s
95th percentile per-packet one-way delay: 146.473 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 93.44 Mbit/s
95th percentile per-packet one-way delay: 146.473 ms
Loss rate: 0.73%
```

Run 3: Report of Indigo — Data Link

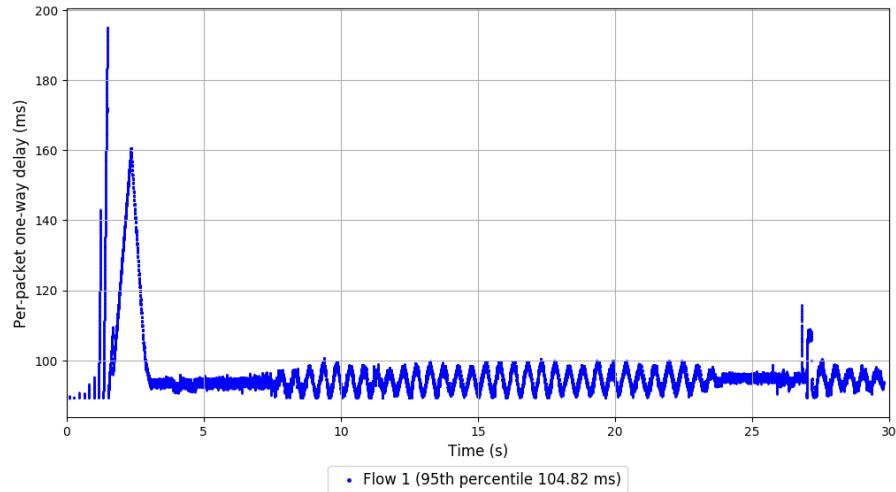
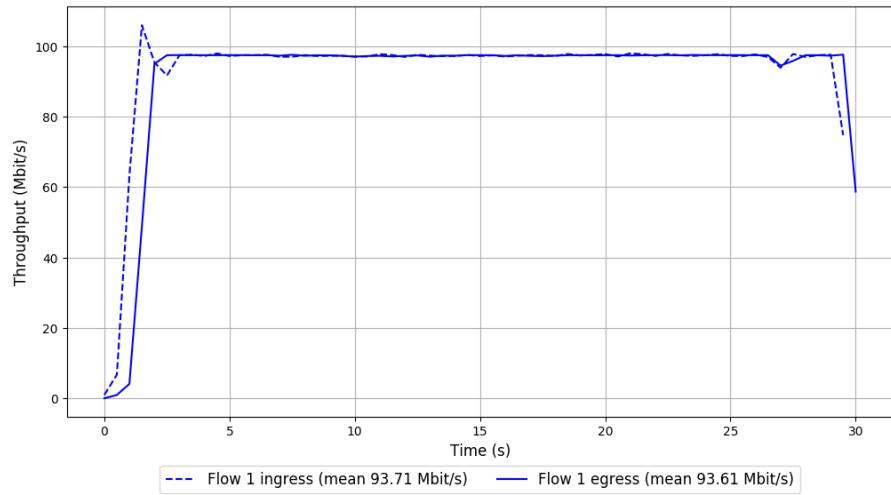


Run 4: Statistics of Indigo

```
Start at: 2019-02-05 14:18:02
End at: 2019-02-05 14:18:32
Local clock offset: -0.943 ms
Remote clock offset: 4.864 ms

# Below is generated by plot.py at 2019-02-05 15:03:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.61 Mbit/s
95th percentile per-packet one-way delay: 104.816 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 93.61 Mbit/s
95th percentile per-packet one-way delay: 104.816 ms
Loss rate: 0.67%
```

Run 4: Report of Indigo — Data Link

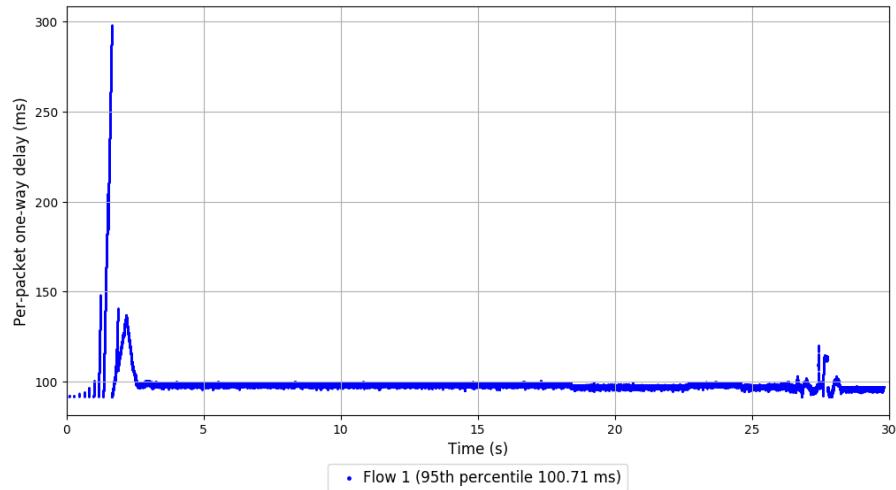
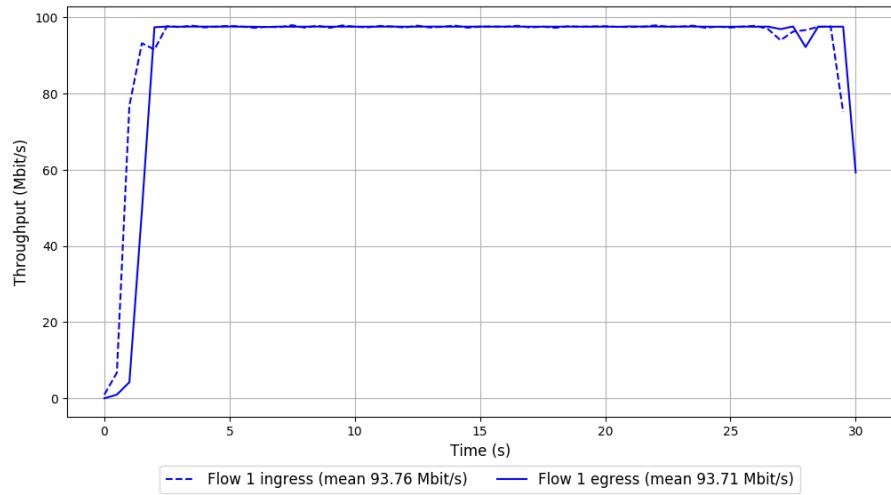


Run 5: Statistics of Indigo

```
Start at: 2019-02-05 14:42:58
End at: 2019-02-05 14:43:28
Local clock offset: -6.927 ms
Remote clock offset: 3.002 ms

# Below is generated by plot.py at 2019-02-05 15:03:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 100.711 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 100.711 ms
Loss rate: 0.63%
```

Run 5: Report of Indigo — Data Link

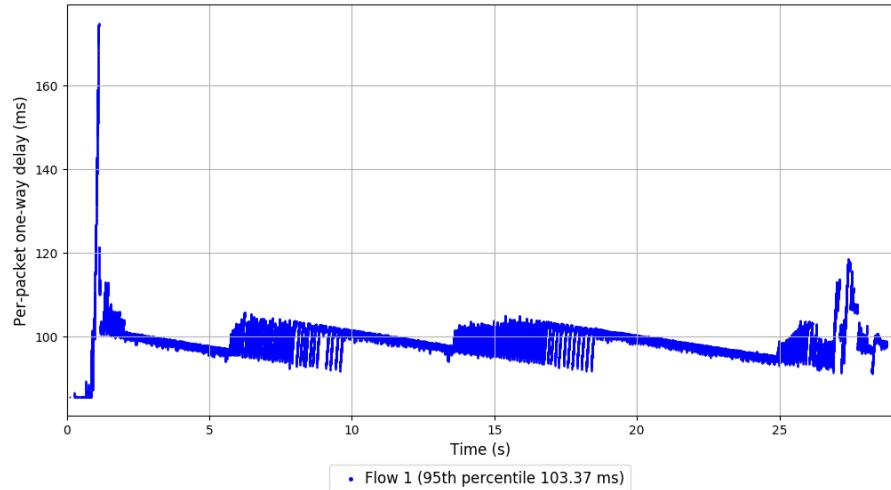
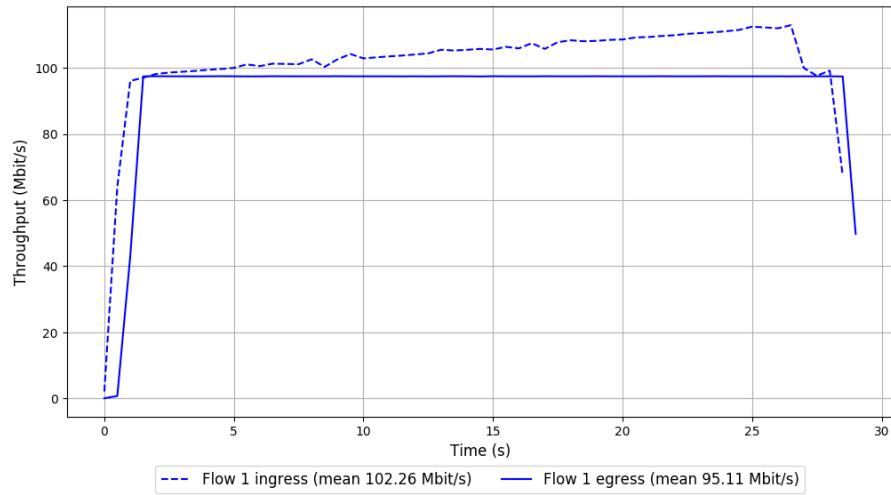


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 12:53:34
End at: 2019-02-05 12:54:04
Local clock offset: -6.656 ms
Remote clock offset: 7.662 ms

# Below is generated by plot.py at 2019-02-05 15:03:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 103.373 ms
Loss rate: 7.54%
-- Flow 1:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 103.373 ms
Loss rate: 7.54%
```

Run 1: Report of Indigo-MusesC3 — Data Link

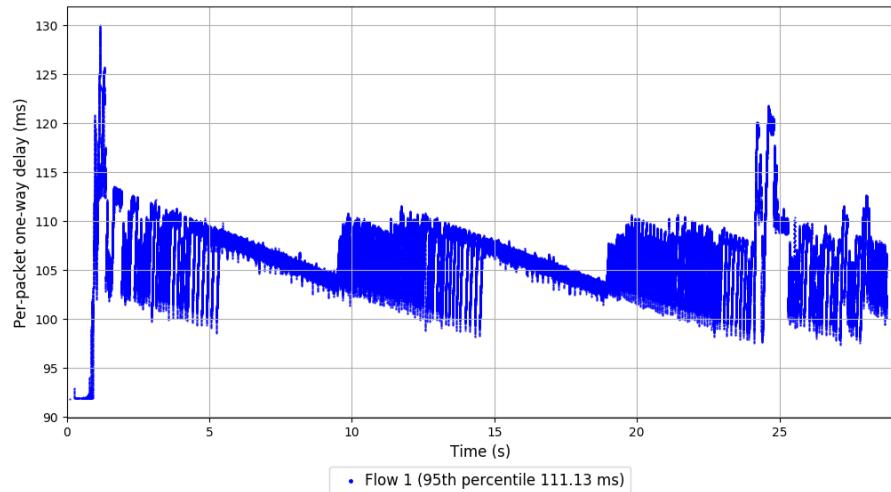
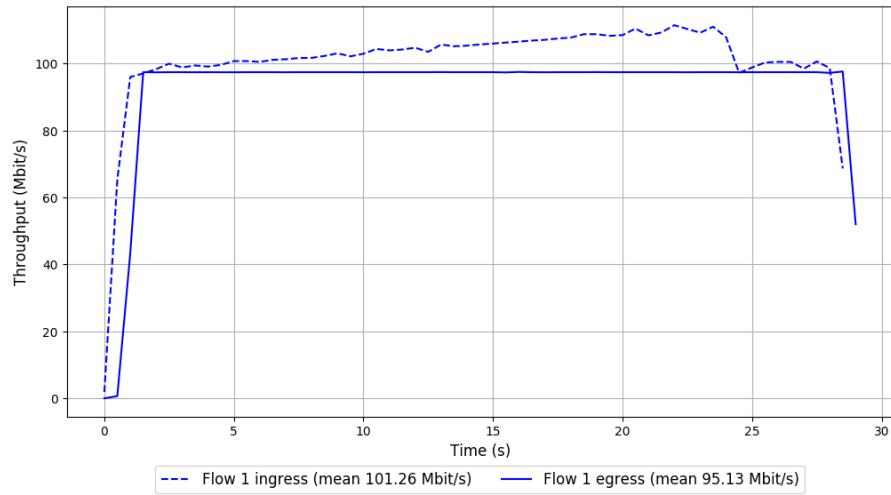


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 13:18:32
End at: 2019-02-05 13:19:02
Local clock offset: -6.575 ms
Remote clock offset: 4.664 ms

# Below is generated by plot.py at 2019-02-05 15:03:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.13 Mbit/s
95th percentile per-packet one-way delay: 111.130 ms
Loss rate: 6.62%
-- Flow 1:
Average throughput: 95.13 Mbit/s
95th percentile per-packet one-way delay: 111.130 ms
Loss rate: 6.62%
```

Run 2: Report of Indigo-MusesC3 — Data Link

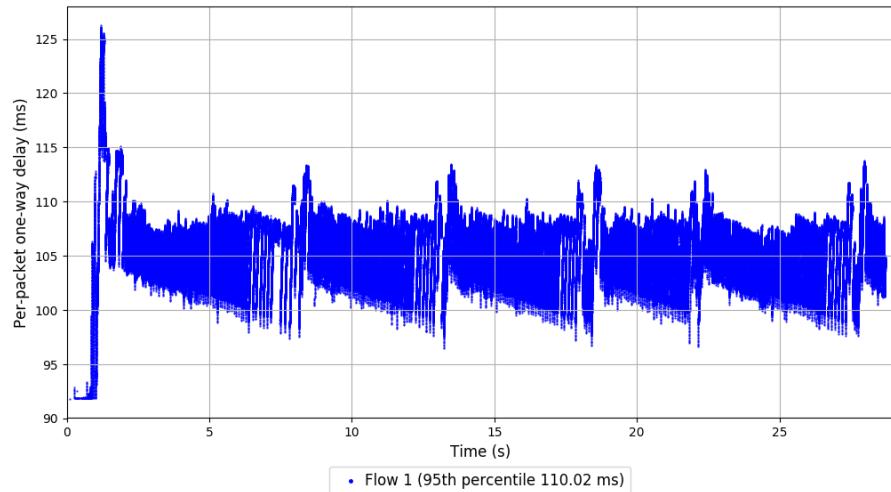
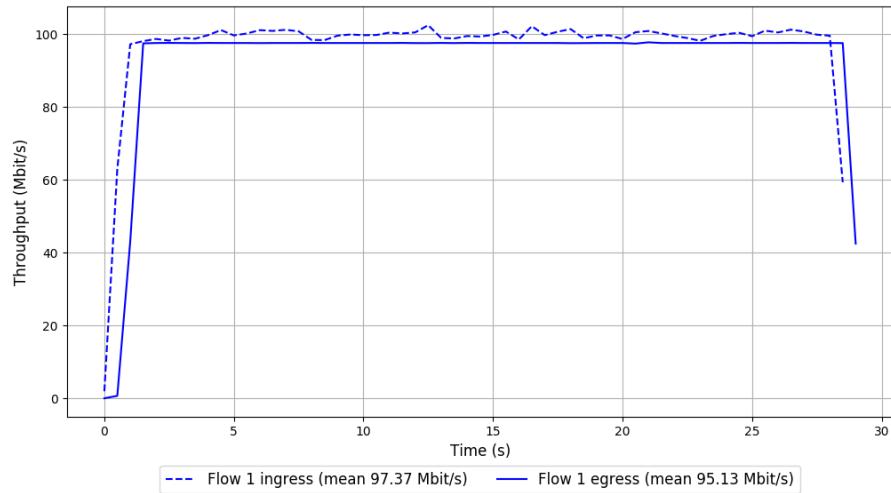


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 13:43:28
End at: 2019-02-05 13:43:58
Local clock offset: -6.103 ms
Remote clock offset: 3.716 ms

# Below is generated by plot.py at 2019-02-05 15:03:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.13 Mbit/s
95th percentile per-packet one-way delay: 110.017 ms
Loss rate: 2.89%
-- Flow 1:
Average throughput: 95.13 Mbit/s
95th percentile per-packet one-way delay: 110.017 ms
Loss rate: 2.89%
```

Run 3: Report of Indigo-MusesC3 — Data Link

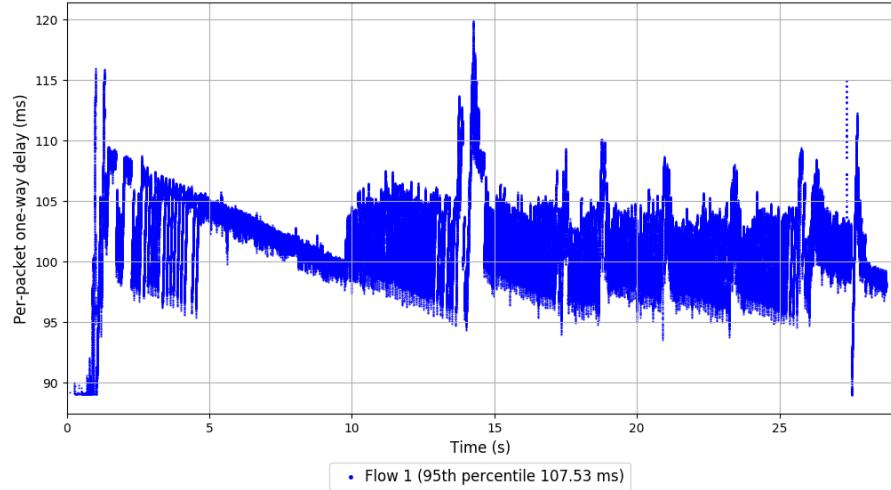
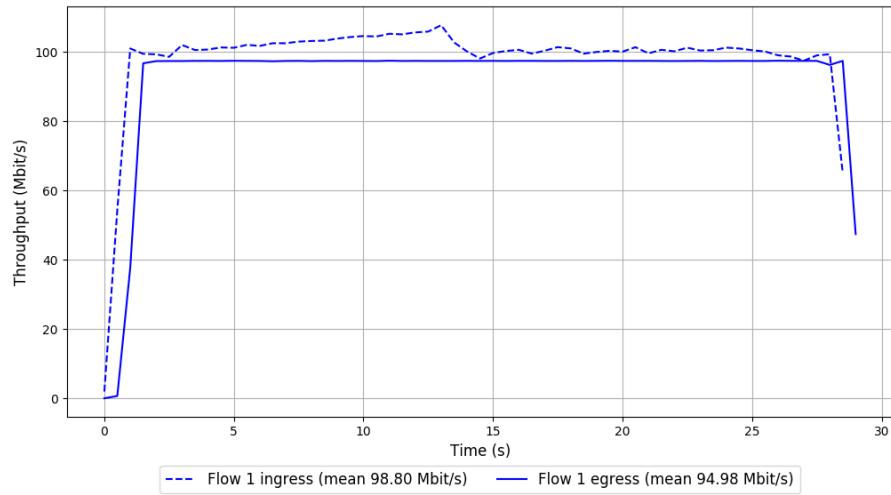


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 14:08:28
End at: 2019-02-05 14:08:58
Local clock offset: -0.16 ms
Remote clock offset: 4.996 ms

# Below is generated by plot.py at 2019-02-05 15:03:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.98 Mbit/s
95th percentile per-packet one-way delay: 107.529 ms
Loss rate: 4.45%
-- Flow 1:
Average throughput: 94.98 Mbit/s
95th percentile per-packet one-way delay: 107.529 ms
Loss rate: 4.45%
```

Run 4: Report of Indigo-MusesC3 — Data Link

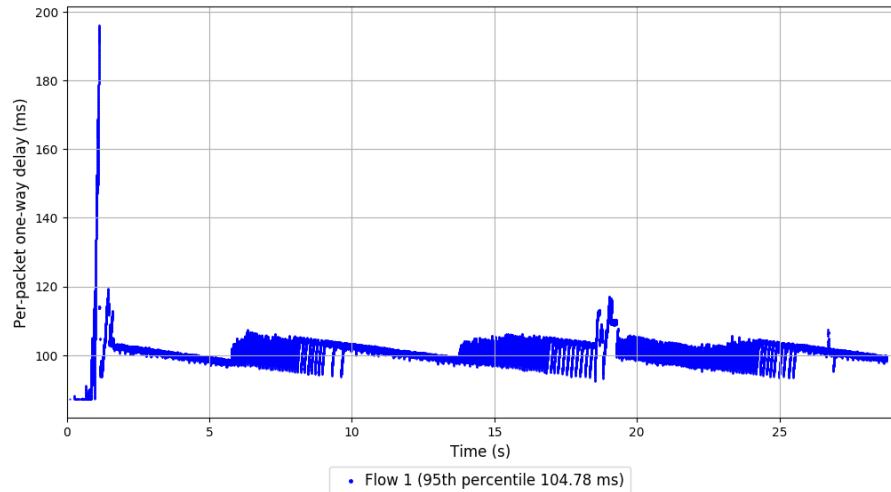
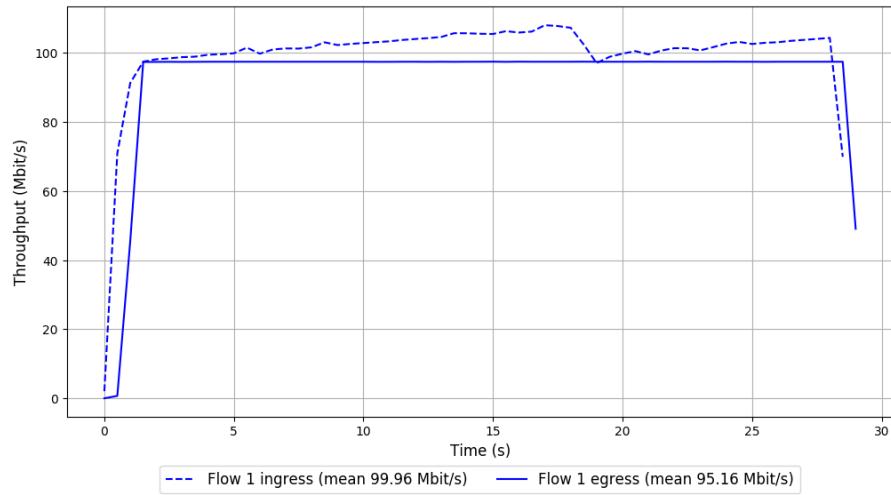


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 14:33:25
End at: 2019-02-05 14:33:55
Local clock offset: -5.982 ms
Remote clock offset: 5.027 ms

# Below is generated by plot.py at 2019-02-05 15:03:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 104.781 ms
Loss rate: 5.36%
-- Flow 1:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 104.781 ms
Loss rate: 5.36%
```

Run 5: Report of Indigo-MusesC3 — Data Link

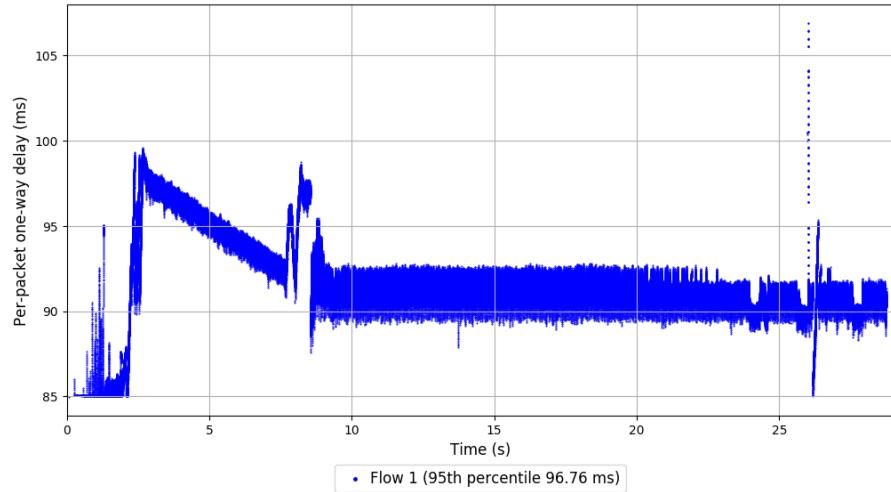
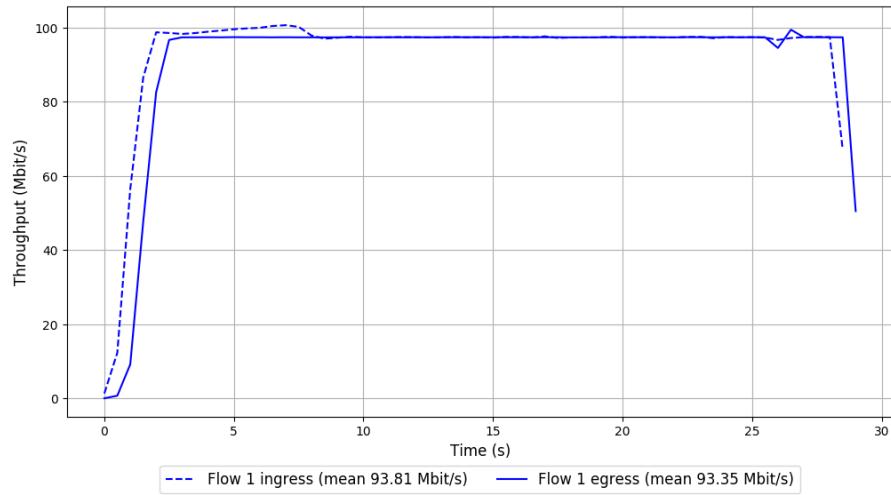


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 12:58:23
End at: 2019-02-05 12:58:53
Local clock offset: -6.69 ms
Remote clock offset: 8.283 ms

# Below is generated by plot.py at 2019-02-05 15:04:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 96.758 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 96.758 ms
Loss rate: 1.07%
```

Run 1: Report of Indigo-MusesC5 — Data Link

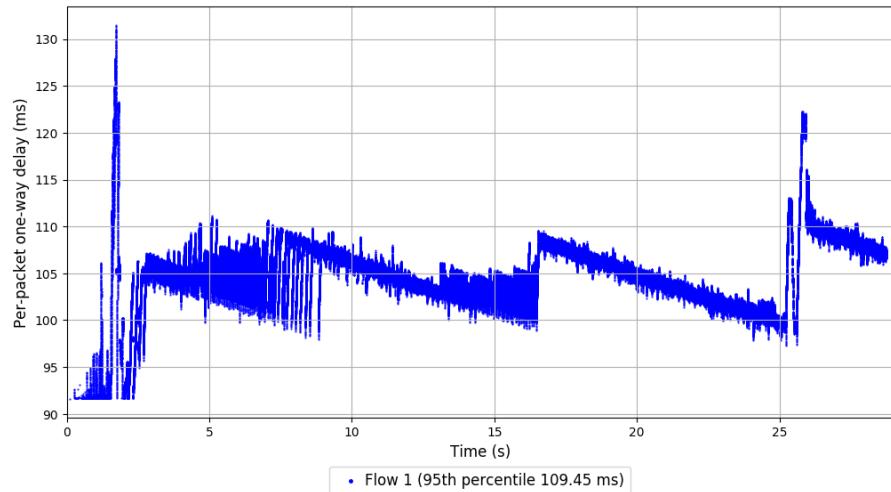
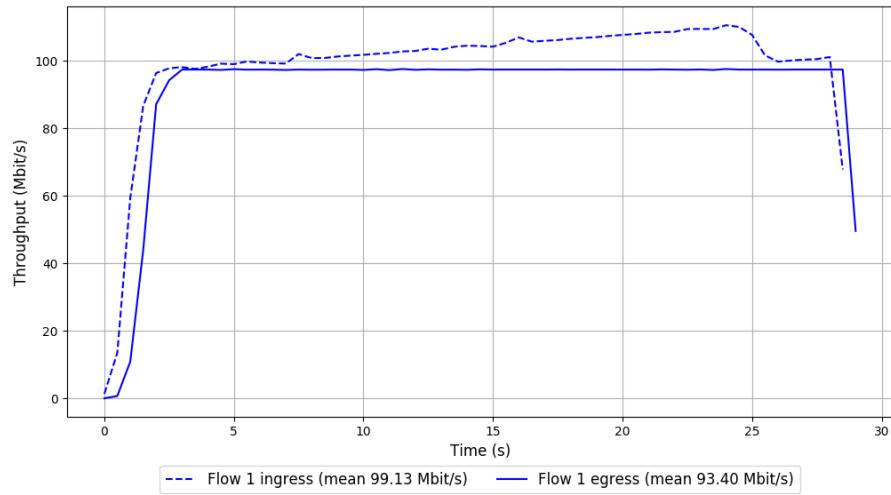


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 13:23:20
End at: 2019-02-05 13:23:50
Local clock offset: -6.424 ms
Remote clock offset: 4.247 ms

# Below is generated by plot.py at 2019-02-05 15:04:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.40 Mbit/s
95th percentile per-packet one-way delay: 109.454 ms
Loss rate: 6.35%
-- Flow 1:
Average throughput: 93.40 Mbit/s
95th percentile per-packet one-way delay: 109.454 ms
Loss rate: 6.35%
```

Run 2: Report of Indigo-MusesC5 — Data Link

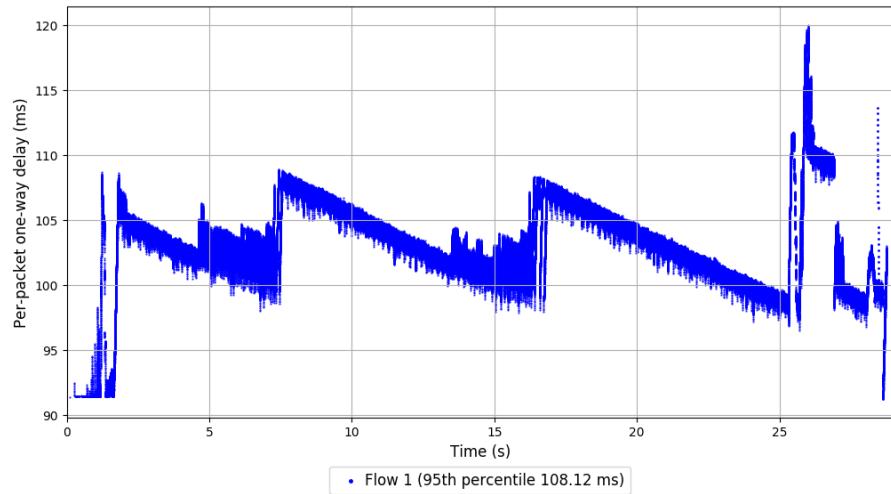
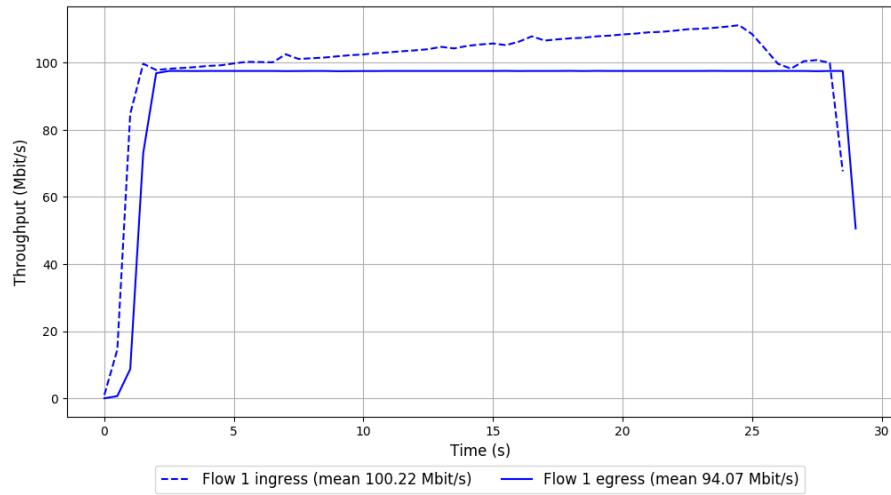


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 13:48:16
End at: 2019-02-05 13:48:46
Local clock offset: -4.865 ms
Remote clock offset: 4.023 ms

# Below is generated by plot.py at 2019-02-05 15:04:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 108.124 ms
Loss rate: 6.70%
-- Flow 1:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 108.124 ms
Loss rate: 6.70%
```

Run 3: Report of Indigo-MusesC5 — Data Link

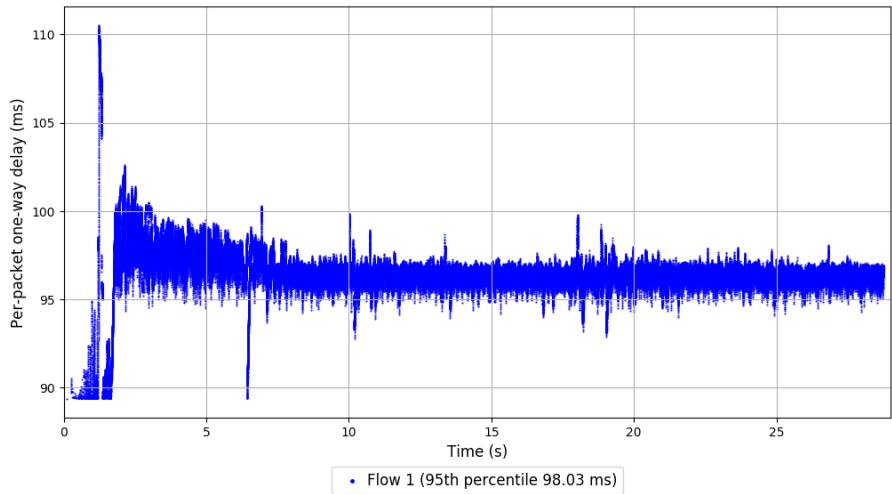
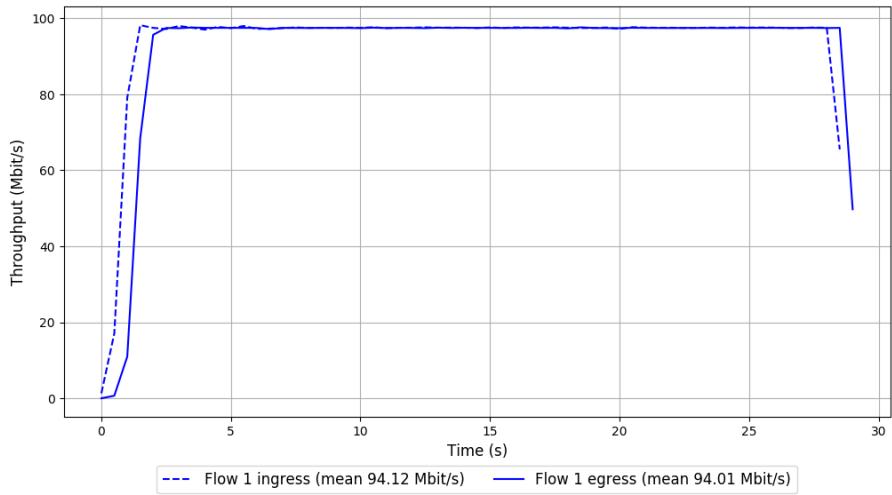


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 14:13:16
End at: 2019-02-05 14:13:46
Local clock offset: 0.37 ms
Remote clock offset: 2.117 ms

# Below is generated by plot.py at 2019-02-05 15:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 98.025 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 98.025 ms
Loss rate: 0.70%
```

Run 4: Report of Indigo-MusesC5 — Data Link

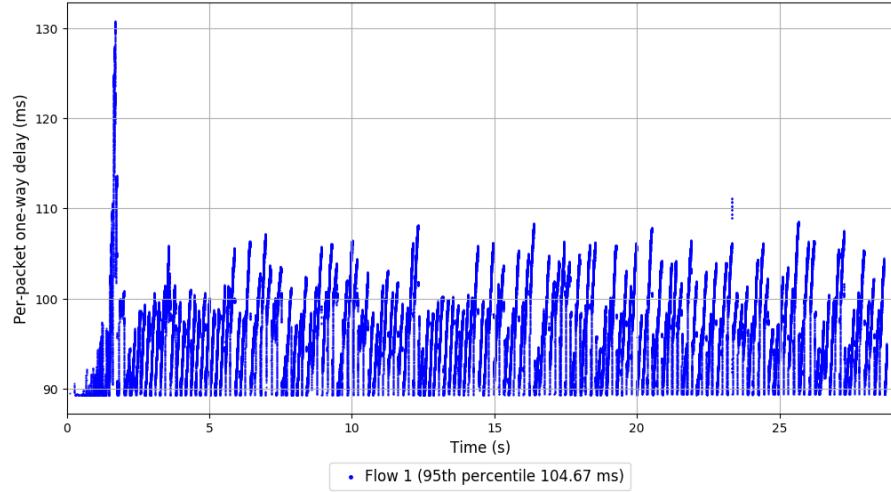
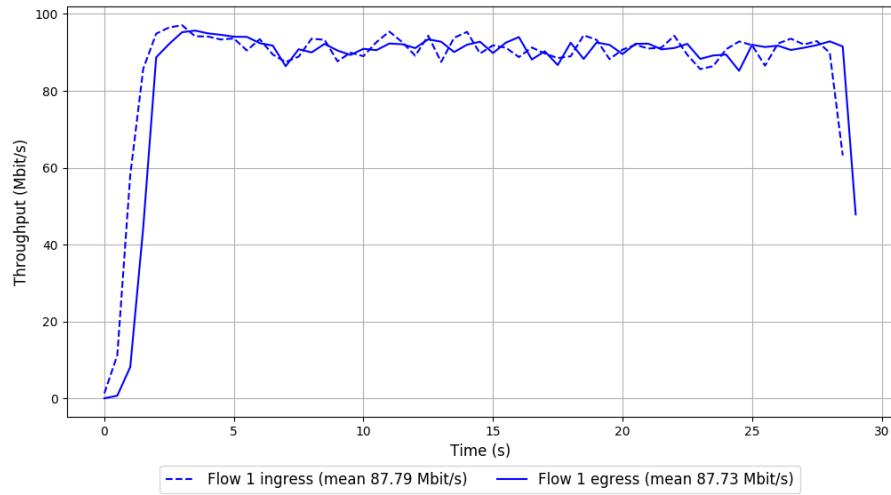


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 14:38:13
End at: 2019-02-05 14:38:43
Local clock offset: -6.539 ms
Remote clock offset: 5.27 ms

# Below is generated by plot.py at 2019-02-05 15:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.73 Mbit/s
95th percentile per-packet one-way delay: 104.666 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 87.73 Mbit/s
95th percentile per-packet one-way delay: 104.666 ms
Loss rate: 0.68%
```

Run 5: Report of Indigo-MusesC5 — Data Link

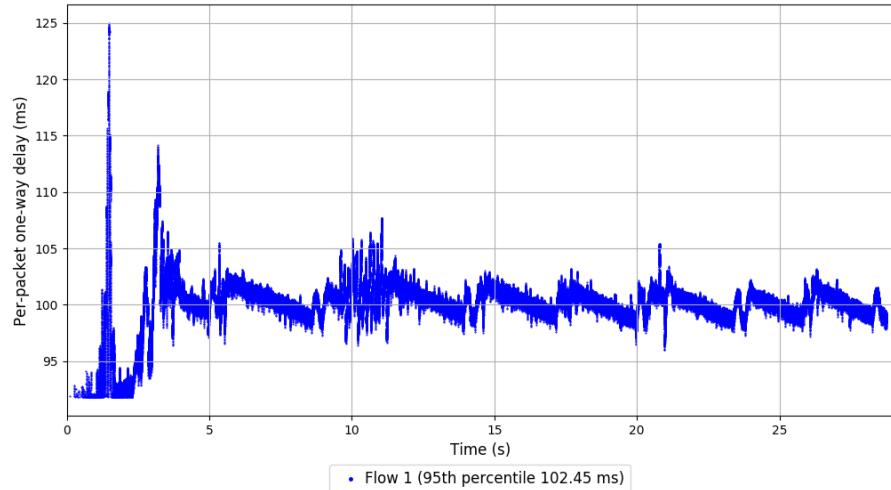
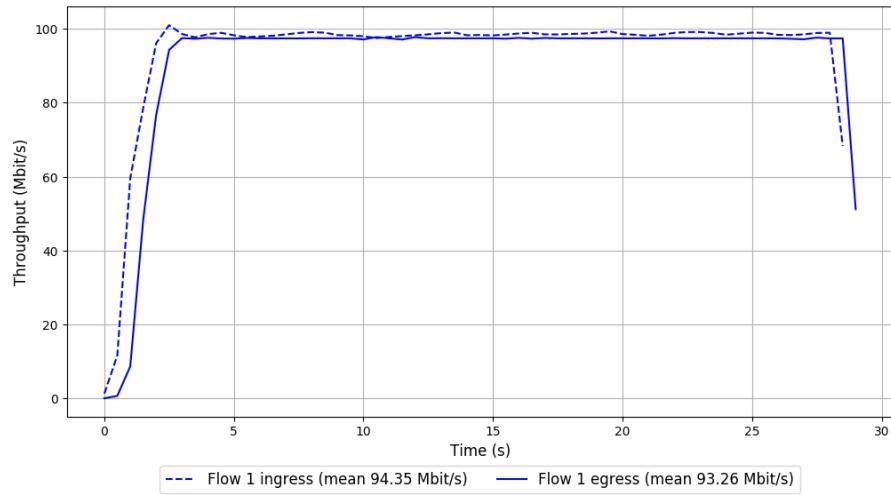


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 13:07:58
End at: 2019-02-05 13:08:28
Local clock offset: -6.678 ms
Remote clock offset: 4.101 ms

# Below is generated by plot.py at 2019-02-05 15:04:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 102.448 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 102.448 ms
Loss rate: 1.75%
```

Run 1: Report of Indigo-MusesD — Data Link

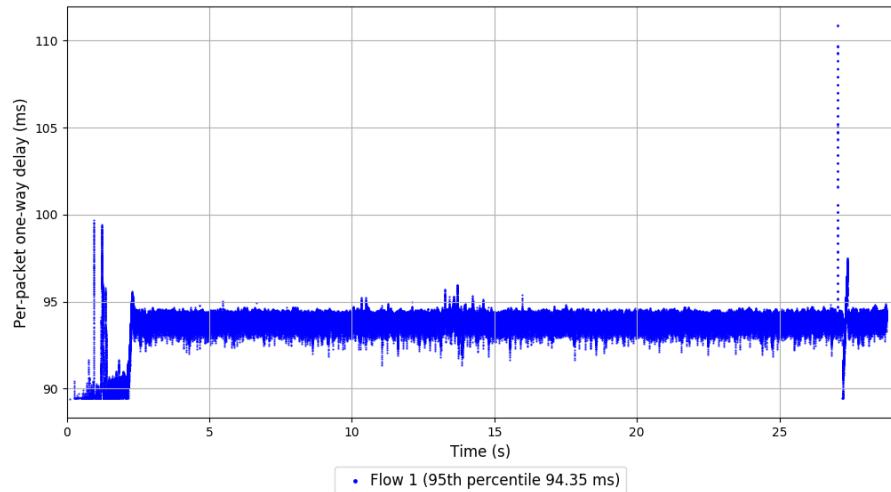
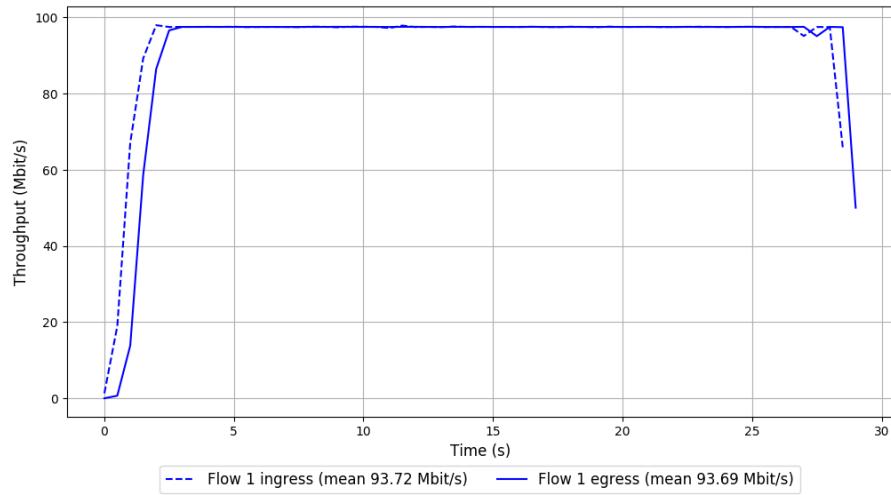


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 13:32:55
End at: 2019-02-05 13:33:25
Local clock offset: -6.166 ms
Remote clock offset: 3.723 ms

# Below is generated by plot.py at 2019-02-05 15:04:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 94.353 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 94.353 ms
Loss rate: 0.63%
```

Run 2: Report of Indigo-MusesD — Data Link

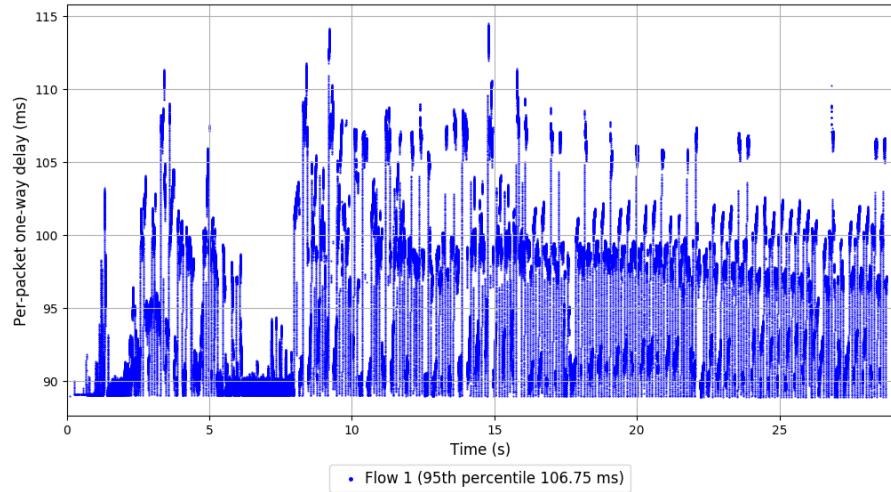
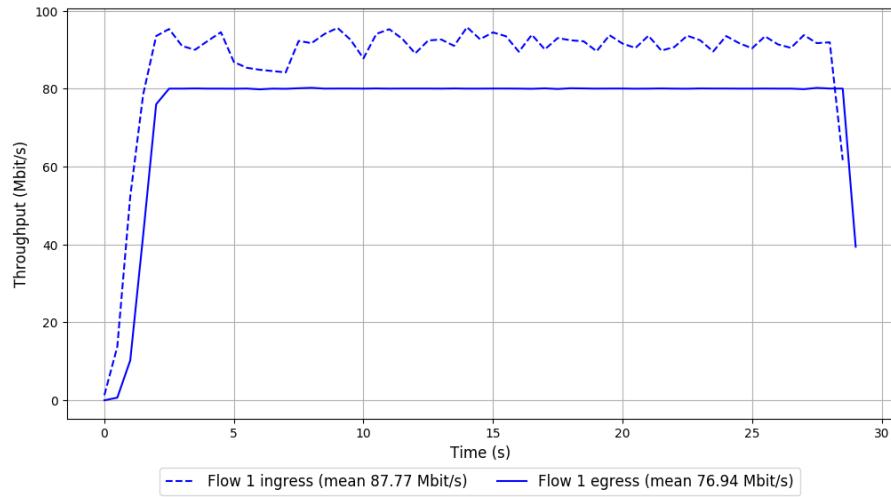


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 13:57:52
End at: 2019-02-05 13:58:23
Local clock offset: -1.688 ms
Remote clock offset: 5.929 ms

# Below is generated by plot.py at 2019-02-05 15:04:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.94 Mbit/s
95th percentile per-packet one-way delay: 106.745 ms
Loss rate: 12.87%
-- Flow 1:
Average throughput: 76.94 Mbit/s
95th percentile per-packet one-way delay: 106.745 ms
Loss rate: 12.87%
```

Run 3: Report of Indigo-MusesD — Data Link

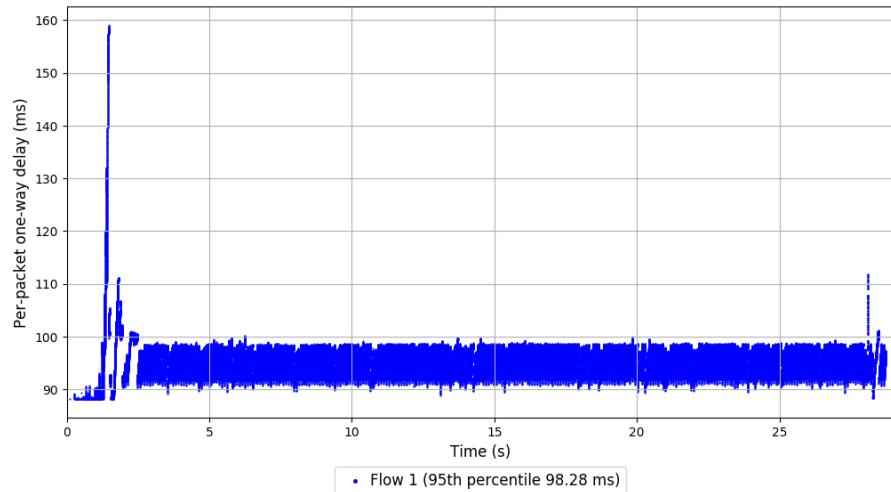
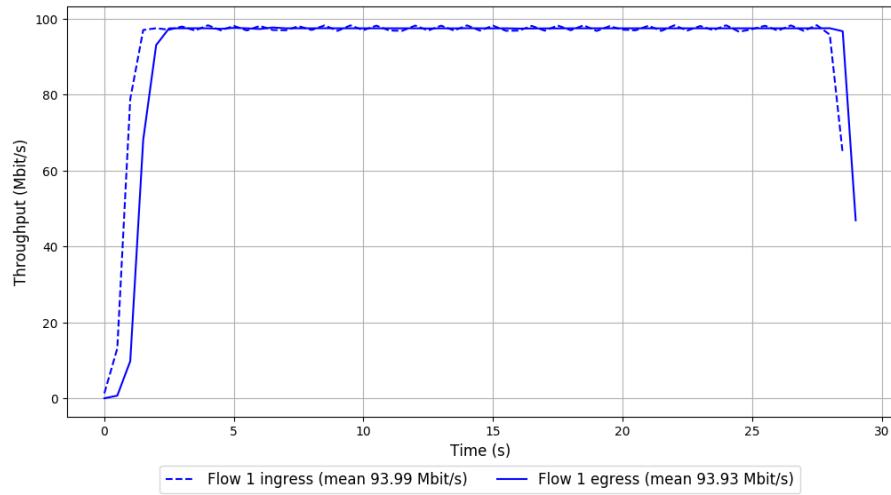


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 14:22:51
End at: 2019-02-05 14:23:21
Local clock offset: -3.455 ms
Remote clock offset: 5.619 ms

# Below is generated by plot.py at 2019-02-05 15:05:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 98.285 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 98.285 ms
Loss rate: 0.66%
```

Run 4: Report of Indigo-MusesD — Data Link

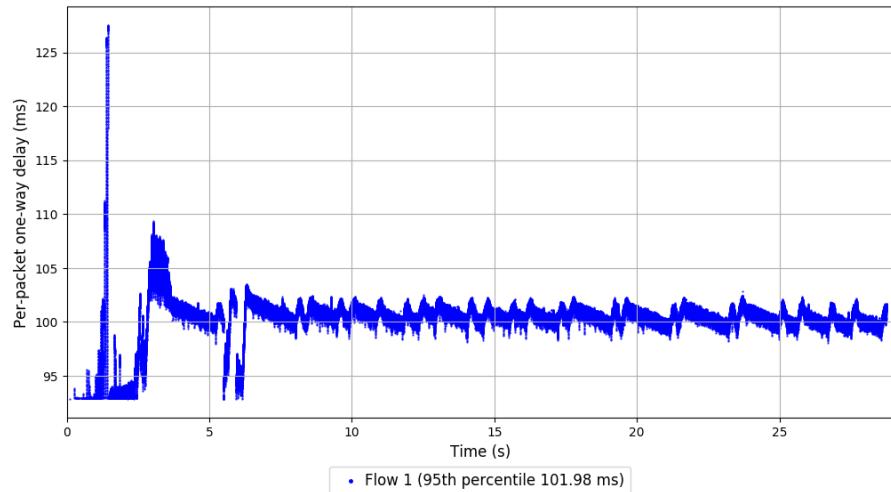
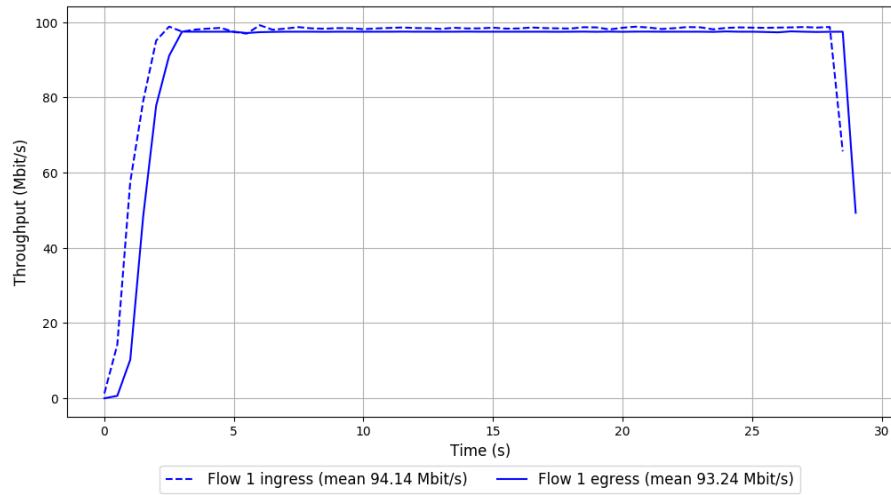


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 14:47:48
End at: 2019-02-05 14:48:18
Local clock offset: -6.044 ms
Remote clock offset: 1.84 ms

# Below is generated by plot.py at 2019-02-05 15:05:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.24 Mbit/s
95th percentile per-packet one-way delay: 101.985 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 93.24 Mbit/s
95th percentile per-packet one-way delay: 101.985 ms
Loss rate: 1.55%
```

Run 5: Report of Indigo-MusesD — Data Link

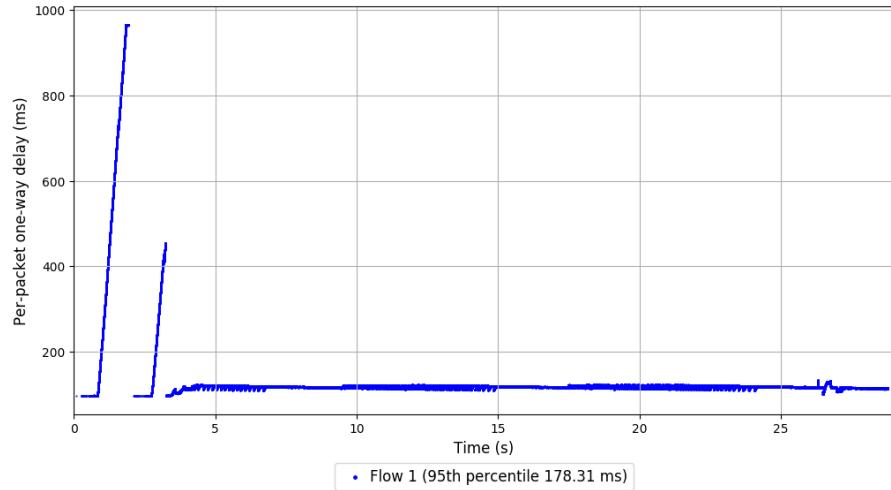
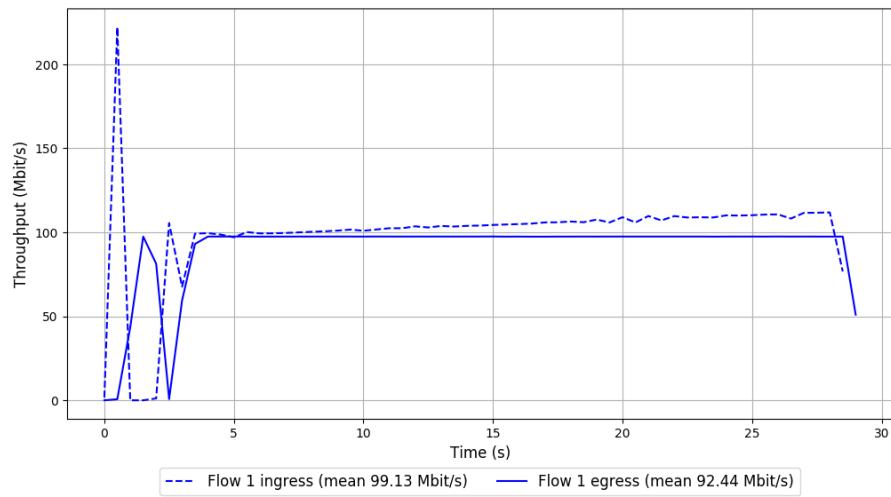


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 12:57:11
End at: 2019-02-05 12:57:41
Local clock offset: -6.636 ms
Remote clock offset: 3.704 ms

# Below is generated by plot.py at 2019-02-05 15:05:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 178.309 ms
Loss rate: 7.32%
-- Flow 1:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 178.309 ms
Loss rate: 7.32%
```

Run 1: Report of Indigo-MusesT — Data Link

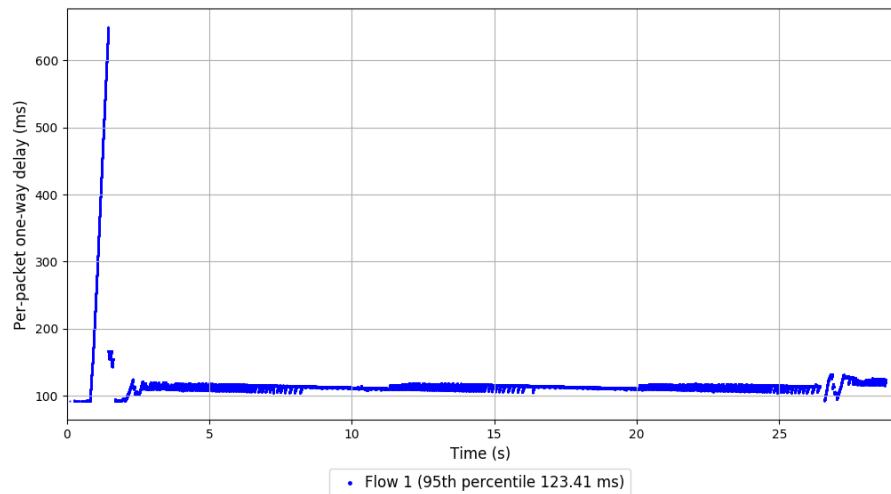
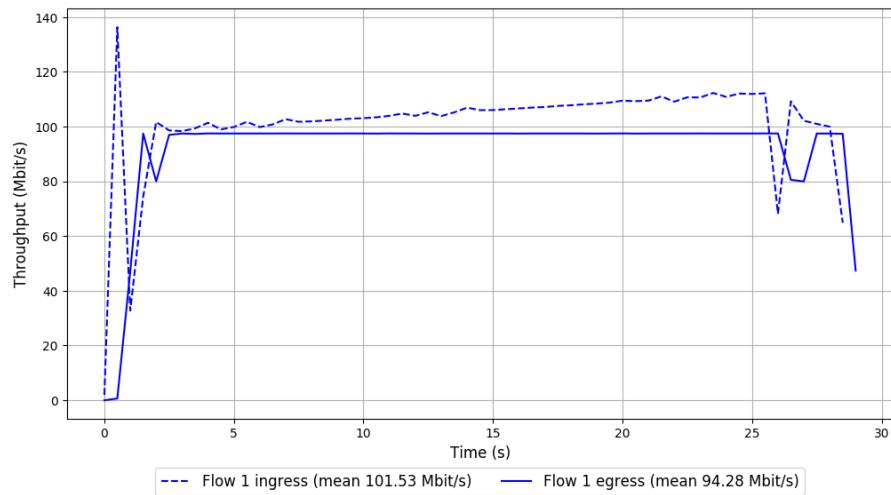


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 13:22:08
End at: 2019-02-05 13:22:38
Local clock offset: -6.399 ms
Remote clock offset: 4.39 ms

# Below is generated by plot.py at 2019-02-05 15:05:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 123.405 ms
Loss rate: 7.70%
-- Flow 1:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 123.405 ms
Loss rate: 7.70%
```

Run 2: Report of Indigo-MusesT — Data Link

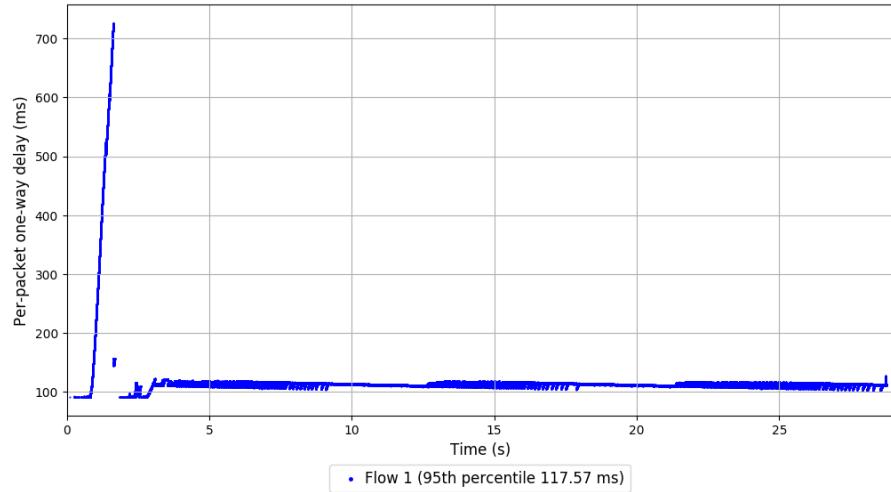
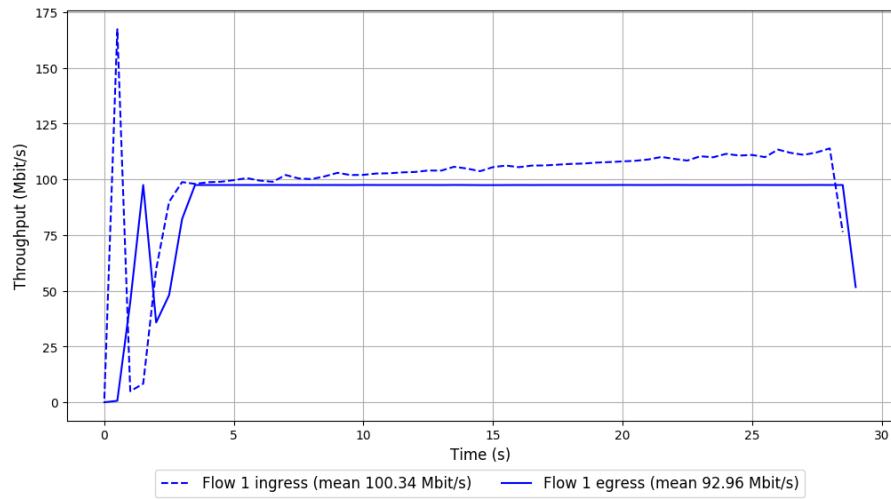


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 13:47:04
End at: 2019-02-05 13:47:34
Local clock offset: -5.61 ms
Remote clock offset: 3.934 ms

# Below is generated by plot.py at 2019-02-05 15:05:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 117.567 ms
Loss rate: 7.91%
-- Flow 1:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 117.567 ms
Loss rate: 7.91%
```

Run 3: Report of Indigo-MusesT — Data Link

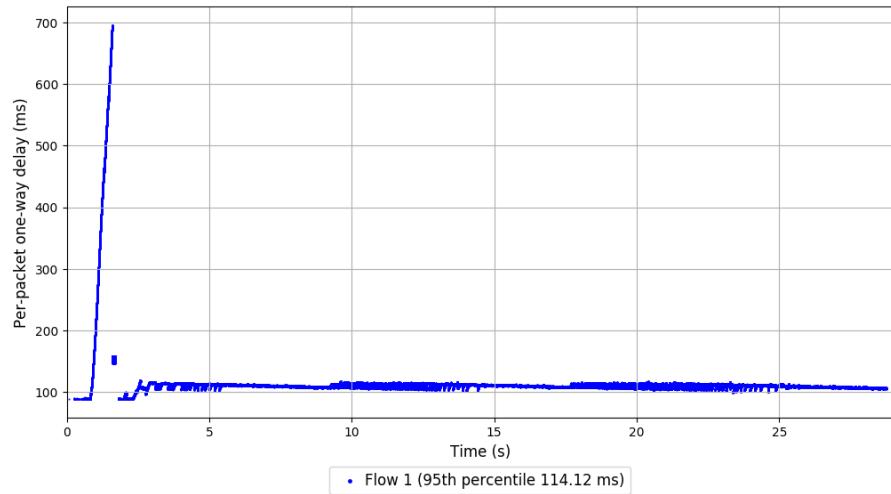
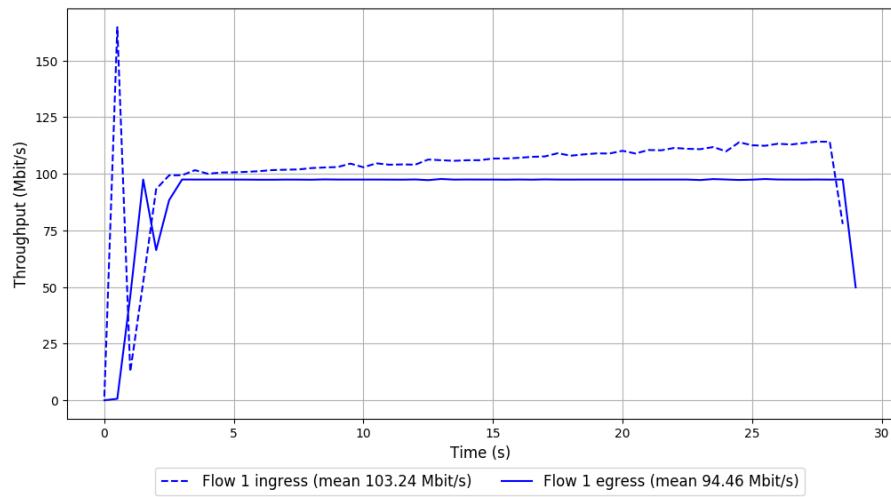


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 14:12:04
End at: 2019-02-05 14:12:34
Local clock offset: 0.196 ms
Remote clock offset: 5.92 ms

# Below is generated by plot.py at 2019-02-05 15:05:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 114.116 ms
Loss rate: 9.04%
-- Flow 1:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 114.116 ms
Loss rate: 9.04%
```

Run 4: Report of Indigo-MusesT — Data Link

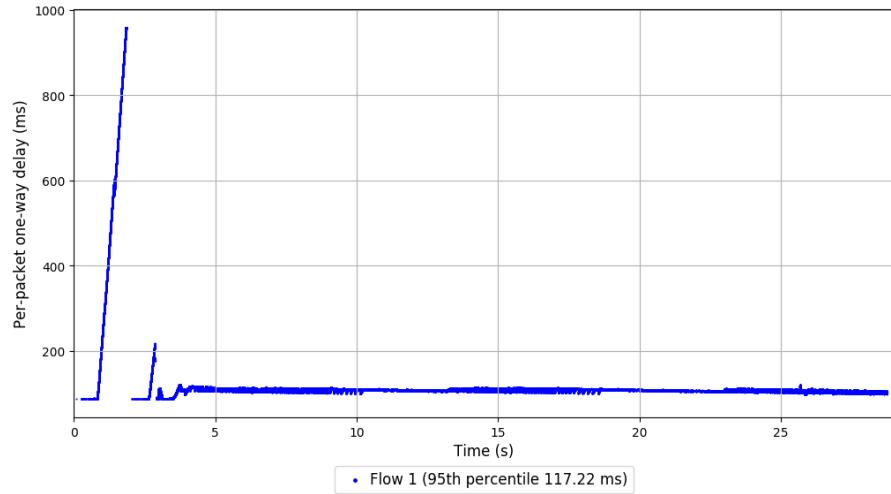
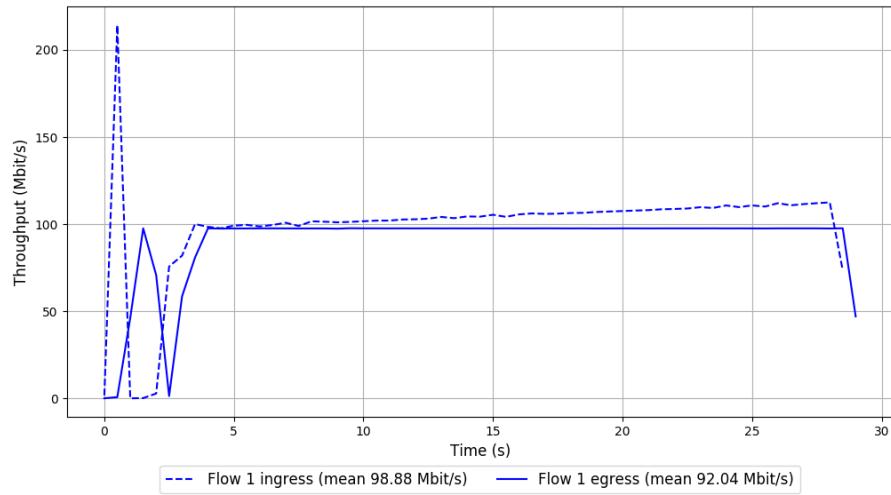


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 14:37:01
End at: 2019-02-05 14:37:31
Local clock offset: -6.396 ms
Remote clock offset: 6.734 ms

# Below is generated by plot.py at 2019-02-05 15:05:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.04 Mbit/s
95th percentile per-packet one-way delay: 117.225 ms
Loss rate: 7.48%
-- Flow 1:
Average throughput: 92.04 Mbit/s
95th percentile per-packet one-way delay: 117.225 ms
Loss rate: 7.48%
```

Run 5: Report of Indigo-MusesT — Data Link

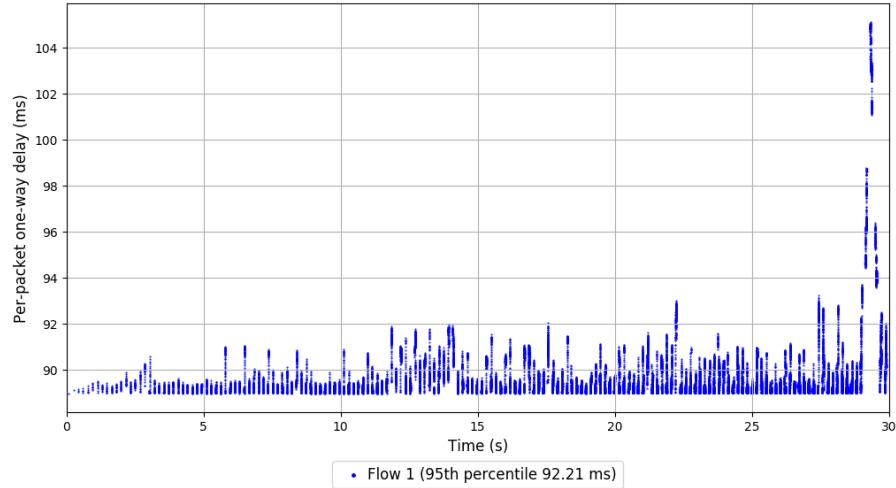
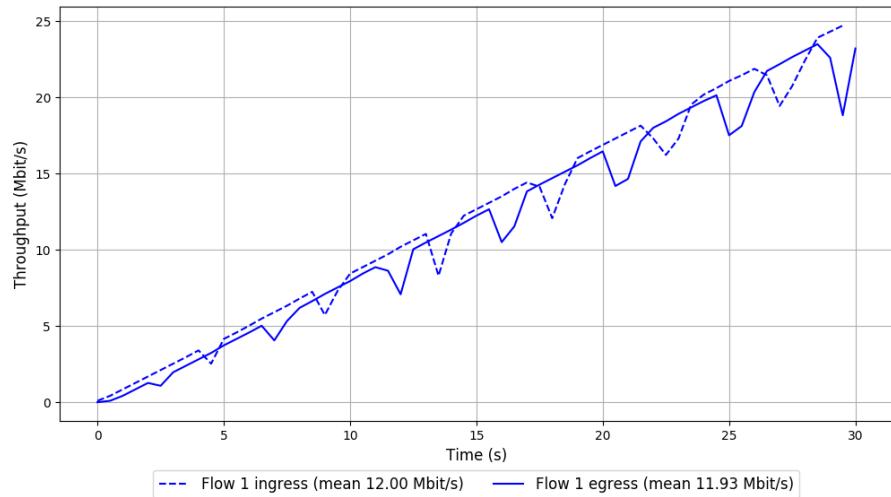


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-02-05 13:00:46
End at: 2019-02-05 13:01:16
Local clock offset: -6.623 ms
Remote clock offset: 6.617 ms

# Below is generated by plot.py at 2019-02-05 15:05:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.93 Mbit/s
95th percentile per-packet one-way delay: 92.207 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 11.93 Mbit/s
95th percentile per-packet one-way delay: 92.207 ms
Loss rate: 1.15%
```

Run 1: Report of LEDBAT — Data Link

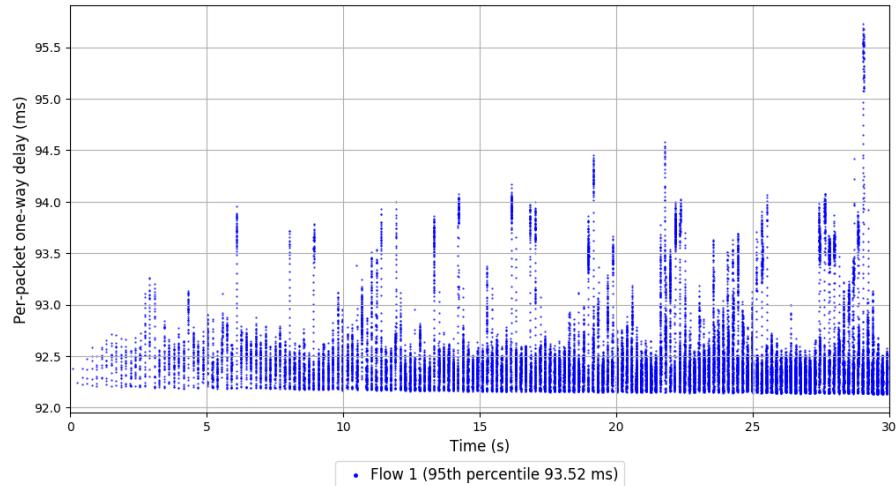
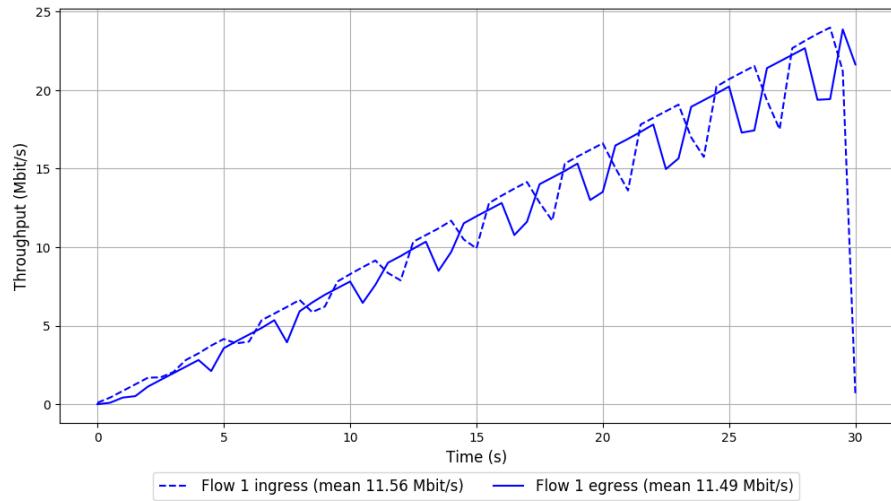


Run 2: Statistics of LEDBAT

```
Start at: 2019-02-05 13:25:43
End at: 2019-02-05 13:26:13
Local clock offset: -6.292 ms
Remote clock offset: 7.73 ms

# Below is generated by plot.py at 2019-02-05 15:05:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 93.520 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 93.520 ms
Loss rate: 1.18%
```

Run 2: Report of LEDBAT — Data Link

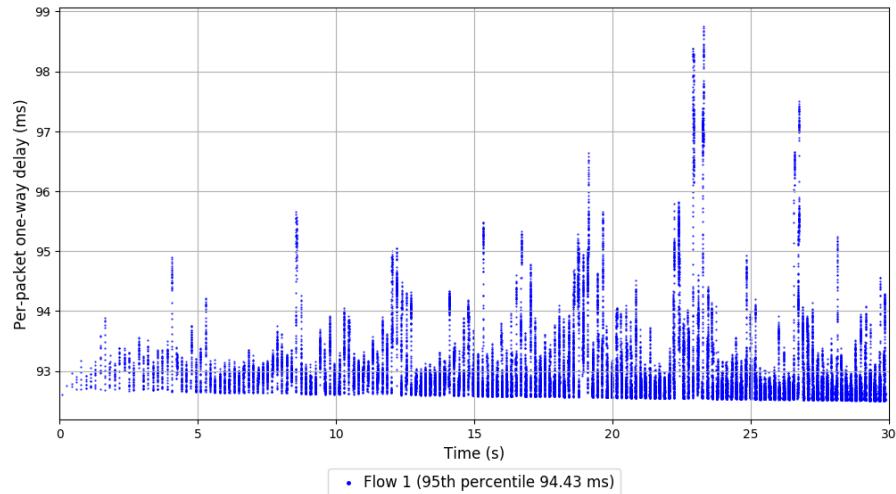
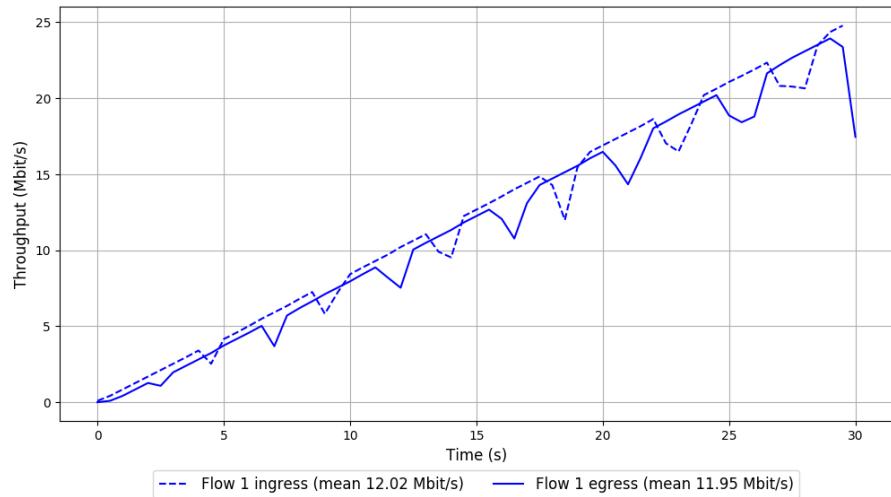


Run 3: Statistics of LEDBAT

```
Start at: 2019-02-05 13:50:39
End at: 2019-02-05 13:51:09
Local clock offset: -3.821 ms
Remote clock offset: 2.948 ms

# Below is generated by plot.py at 2019-02-05 15:05:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.95 Mbit/s
95th percentile per-packet one-way delay: 94.430 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 11.95 Mbit/s
95th percentile per-packet one-way delay: 94.430 ms
Loss rate: 1.15%
```

Run 3: Report of LEDBAT — Data Link

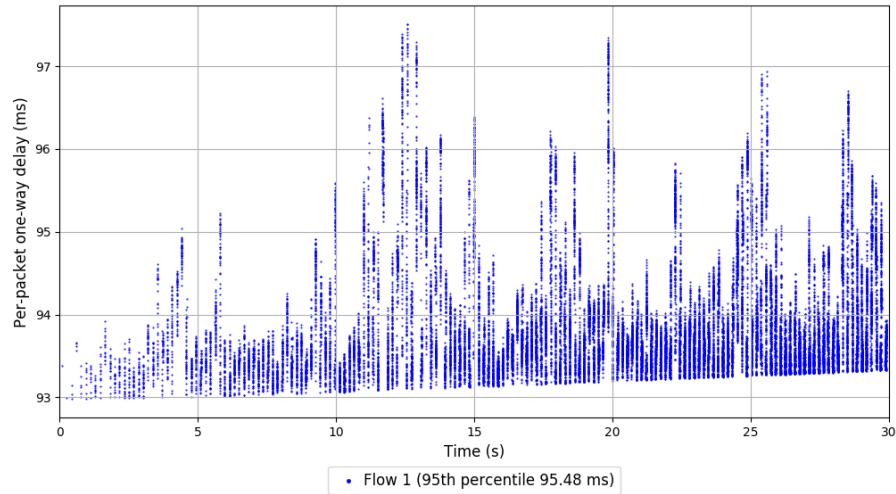
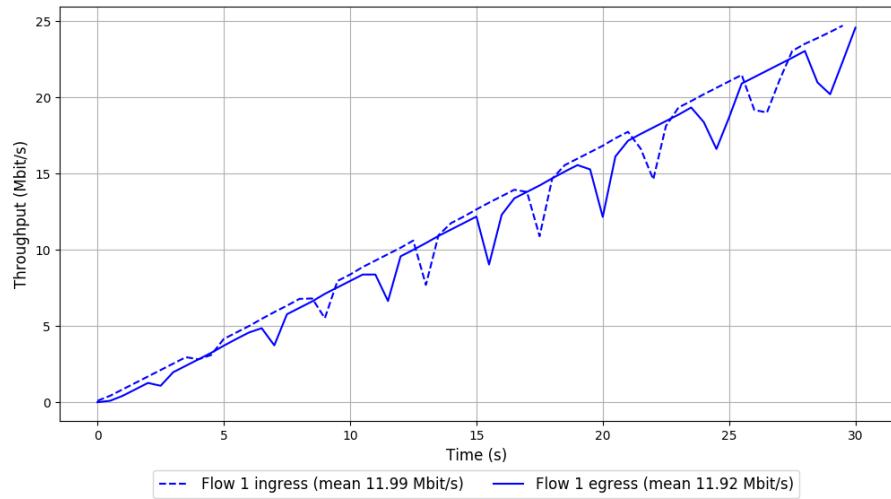


Run 4: Statistics of LEDBAT

```
Start at: 2019-02-05 14:15:39
End at: 2019-02-05 14:16:09
Local clock offset: 0.599 ms
Remote clock offset: 0.876 ms

# Below is generated by plot.py at 2019-02-05 15:05:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 95.476 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 95.476 ms
Loss rate: 1.15%
```

Run 4: Report of LEDBAT — Data Link

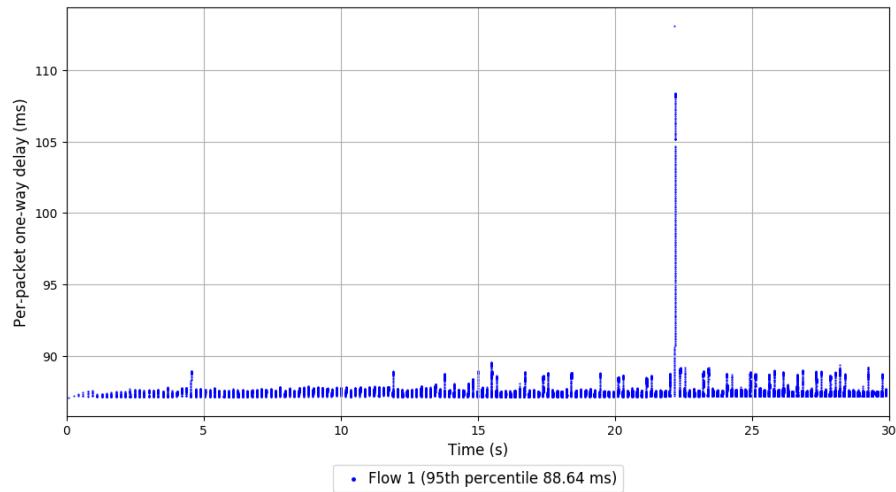
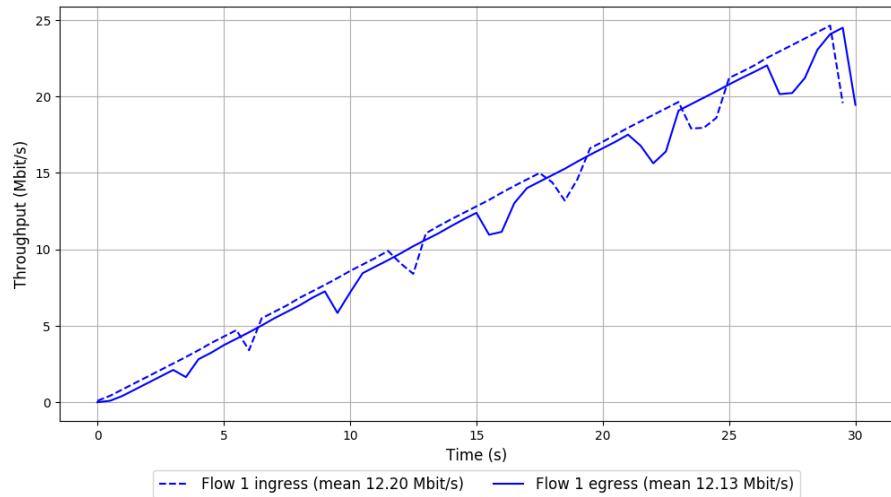


Run 5: Statistics of LEDBAT

```
Start at: 2019-02-05 14:40:35
End at: 2019-02-05 14:41:05
Local clock offset: -6.796 ms
Remote clock offset: 5.462 ms

# Below is generated by plot.py at 2019-02-05 15:05:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 88.640 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 88.640 ms
Loss rate: 1.14%
```

Run 5: Report of LEDBAT — Data Link

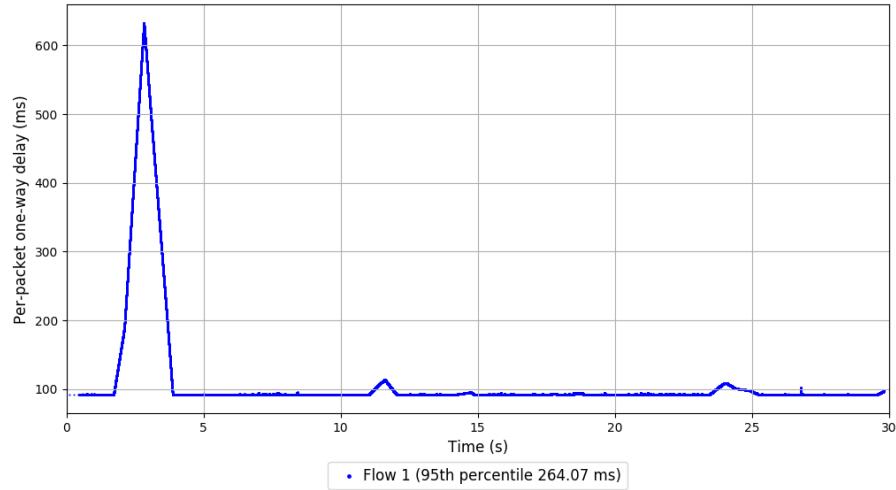
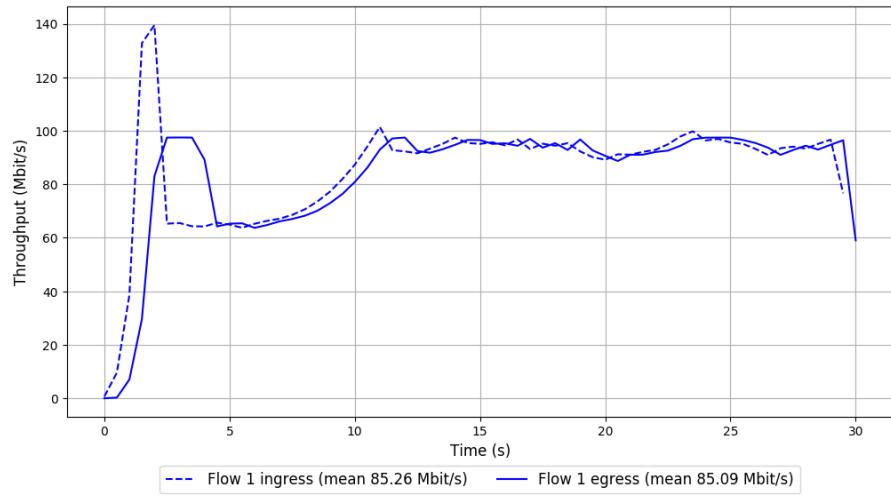


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-02-05 12:59:35
End at: 2019-02-05 13:00:05
Local clock offset: -6.625 ms
Remote clock offset: 3.677 ms

# Below is generated by plot.py at 2019-02-05 15:06:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.09 Mbit/s
95th percentile per-packet one-way delay: 264.075 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 85.09 Mbit/s
95th percentile per-packet one-way delay: 264.075 ms
Loss rate: 0.78%
```

Run 1: Report of PCC-Allegro — Data Link

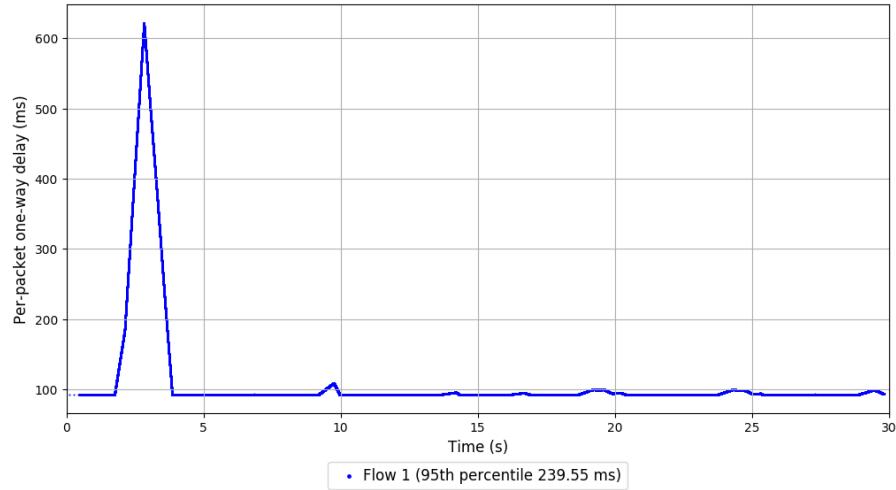
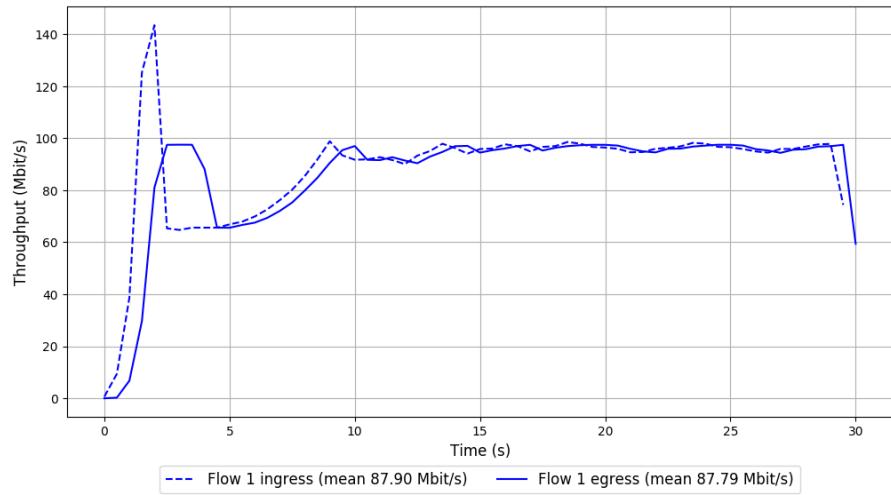


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-02-05 13:24:32
End at: 2019-02-05 13:25:02
Local clock offset: -6.405 ms
Remote clock offset: 3.114 ms

# Below is generated by plot.py at 2019-02-05 15:06:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.79 Mbit/s
95th percentile per-packet one-way delay: 239.552 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 87.79 Mbit/s
95th percentile per-packet one-way delay: 239.552 ms
Loss rate: 0.71%
```

Run 2: Report of PCC-Allegro — Data Link

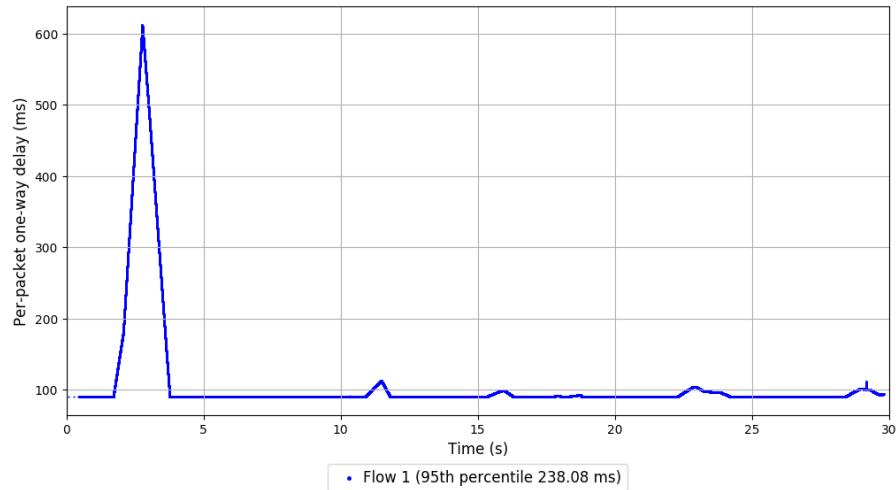
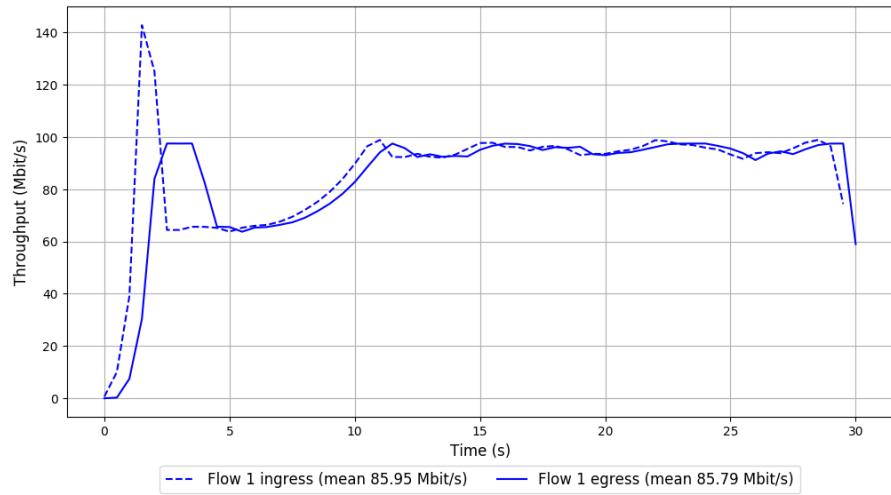


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-02-05 13:49:28
End at: 2019-02-05 13:49:58
Local clock offset: -4.314 ms
Remote clock offset: 2.847 ms

# Below is generated by plot.py at 2019-02-05 15:06:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.79 Mbit/s
95th percentile per-packet one-way delay: 238.081 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 85.79 Mbit/s
95th percentile per-packet one-way delay: 238.081 ms
Loss rate: 0.75%
```

Run 3: Report of PCC-Allegro — Data Link

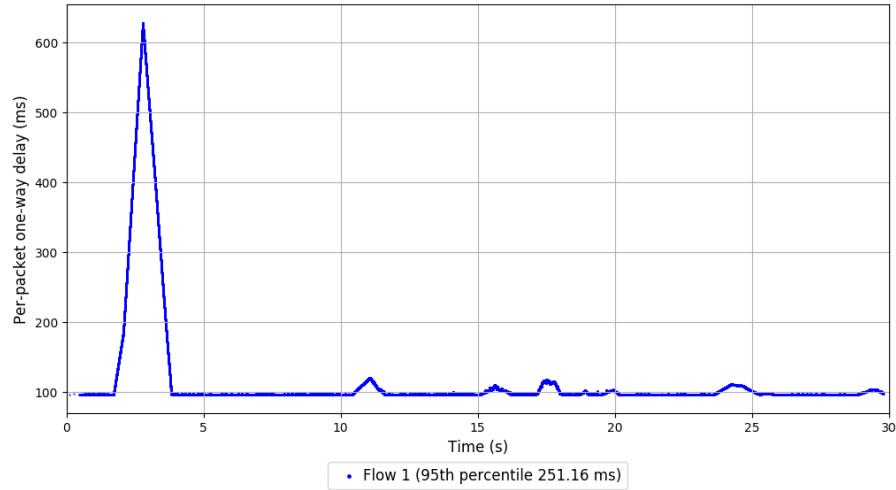
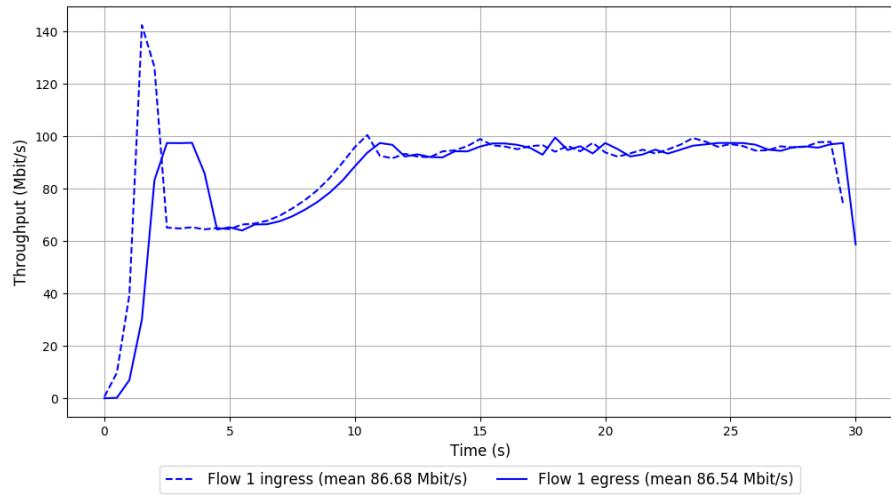


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-02-05 14:14:28
End at: 2019-02-05 14:14:58
Local clock offset: 0.489 ms
Remote clock offset: 1.881 ms

# Below is generated by plot.py at 2019-02-05 15:06:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.54 Mbit/s
95th percentile per-packet one-way delay: 251.162 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 86.54 Mbit/s
95th percentile per-packet one-way delay: 251.162 ms
Loss rate: 0.76%
```

Run 4: Report of PCC-Allegro — Data Link

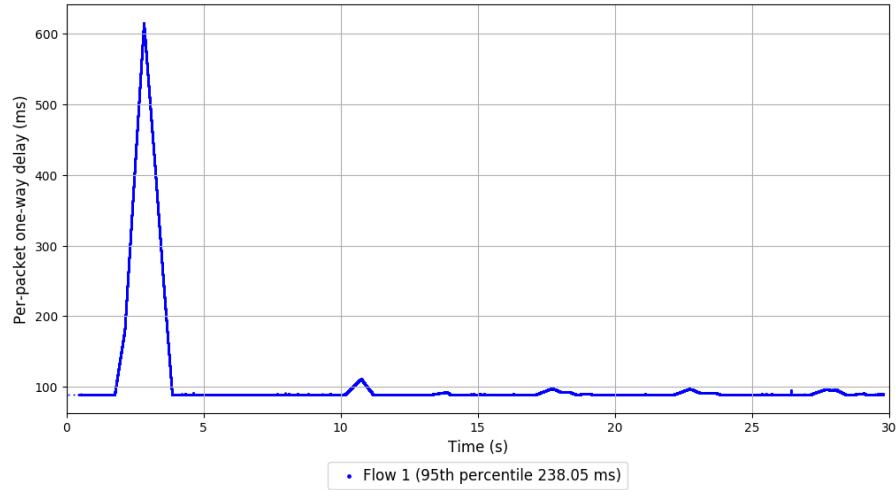
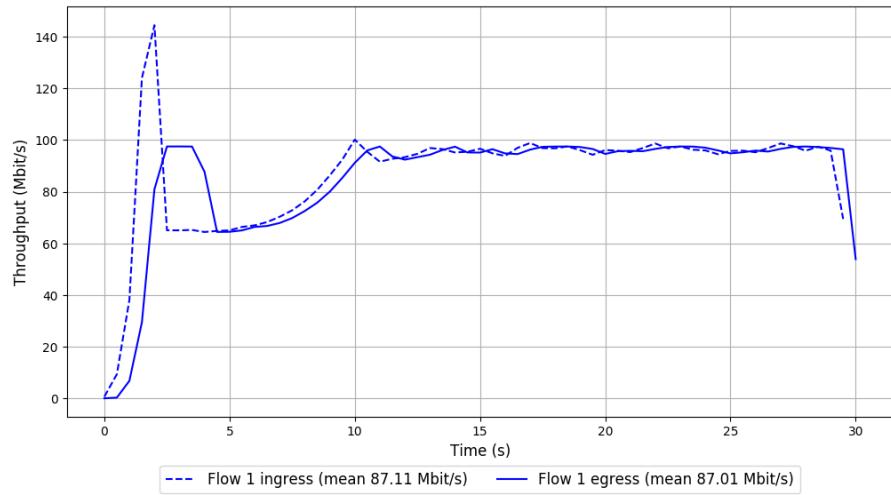


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-02-05 14:39:24
End at: 2019-02-05 14:39:54
Local clock offset: -6.656 ms
Remote clock offset: 5.556 ms

# Below is generated by plot.py at 2019-02-05 15:06:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.01 Mbit/s
95th percentile per-packet one-way delay: 238.049 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 87.01 Mbit/s
95th percentile per-packet one-way delay: 238.049 ms
Loss rate: 0.69%
```

Run 5: Report of PCC-Allegro — Data Link

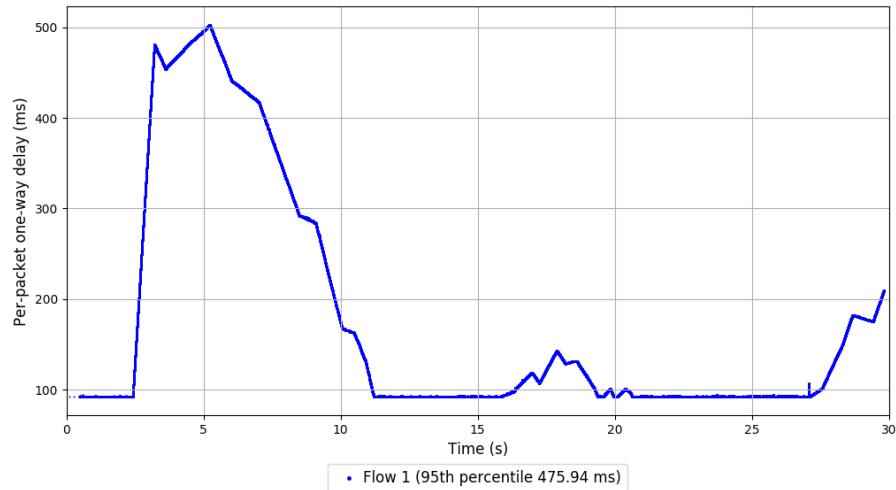
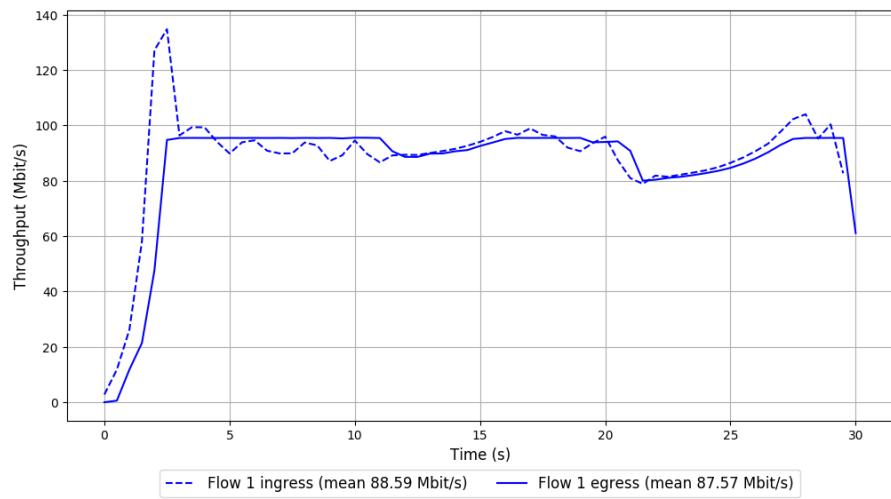


Run 1: Statistics of PCC-Expr

```
Start at: 2019-02-05 13:04:21
End at: 2019-02-05 13:04:51
Local clock offset: -6.638 ms
Remote clock offset: 7.681 ms

# Below is generated by plot.py at 2019-02-05 15:07:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 475.936 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 475.936 ms
Loss rate: 1.74%
```

Run 1: Report of PCC-Expr — Data Link

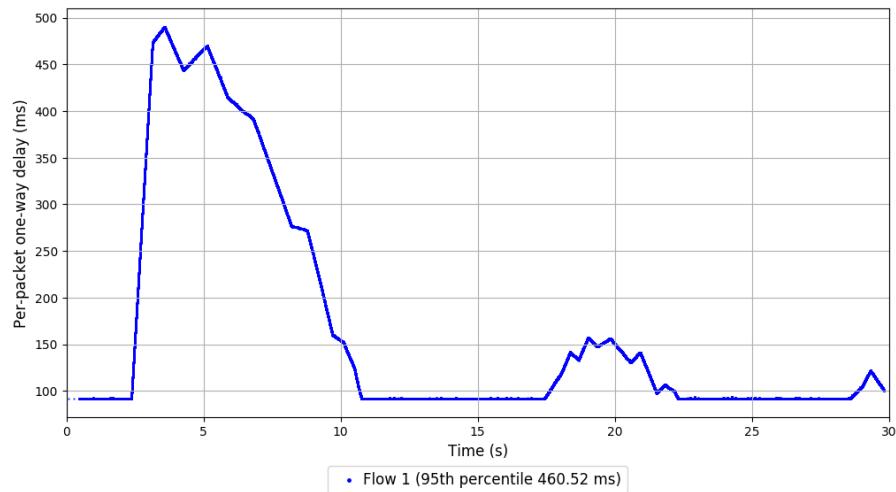
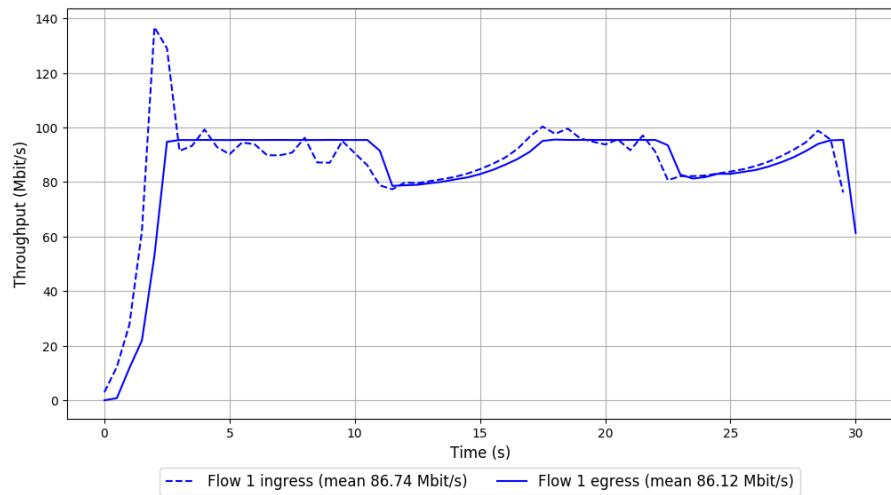


Run 2: Statistics of PCC-Expr

```
Start at: 2019-02-05 13:29:19
End at: 2019-02-05 13:29:49
Local clock offset: -6.219 ms
Remote clock offset: 3.731 ms

# Below is generated by plot.py at 2019-02-05 15:07:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.12 Mbit/s
95th percentile per-packet one-way delay: 460.522 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 86.12 Mbit/s
95th percentile per-packet one-way delay: 460.522 ms
Loss rate: 1.29%
```

Run 2: Report of PCC-Expr — Data Link

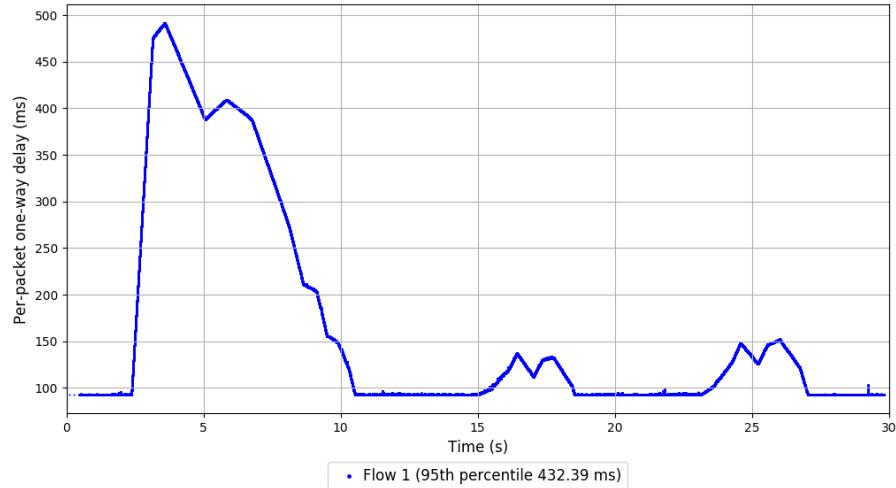
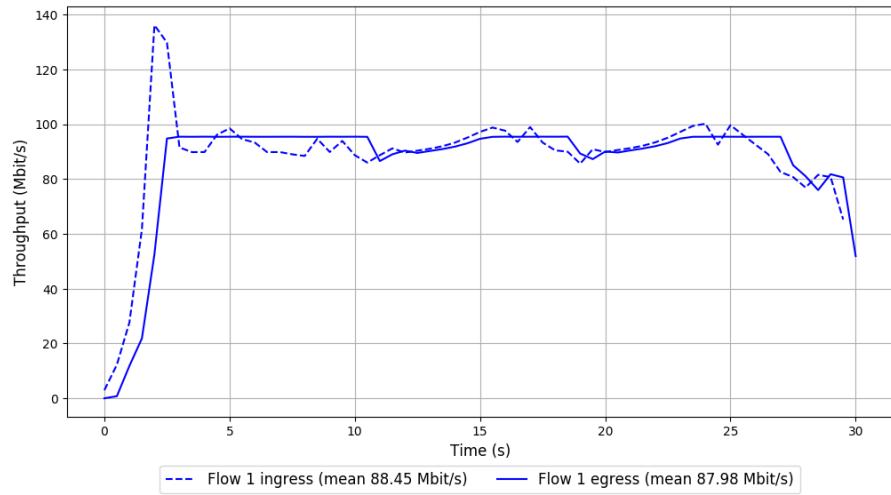


Run 3: Statistics of PCC-Expr

```
Start at: 2019-02-05 13:54:15
End at: 2019-02-05 13:54:45
Local clock offset: -2.612 ms
Remote clock offset: 2.781 ms

# Below is generated by plot.py at 2019-02-05 15:07:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.98 Mbit/s
95th percentile per-packet one-way delay: 432.388 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 87.98 Mbit/s
95th percentile per-packet one-way delay: 432.388 ms
Loss rate: 1.11%
```

Run 3: Report of PCC-Expr — Data Link

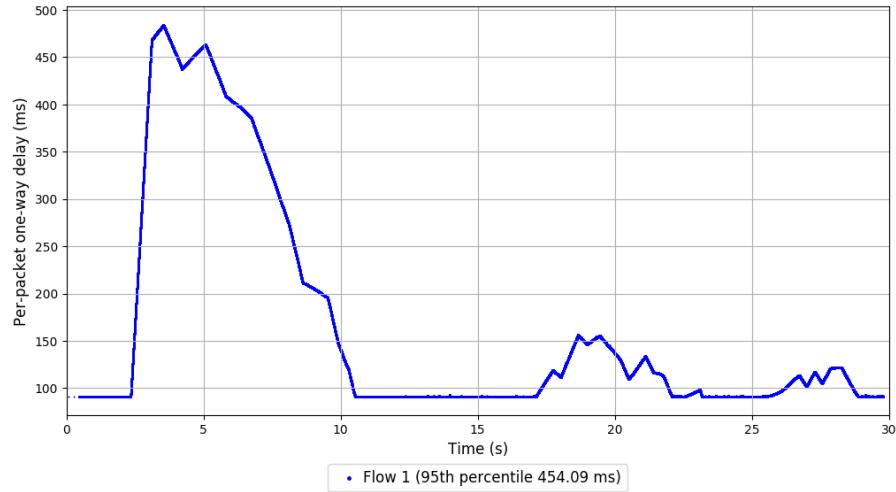
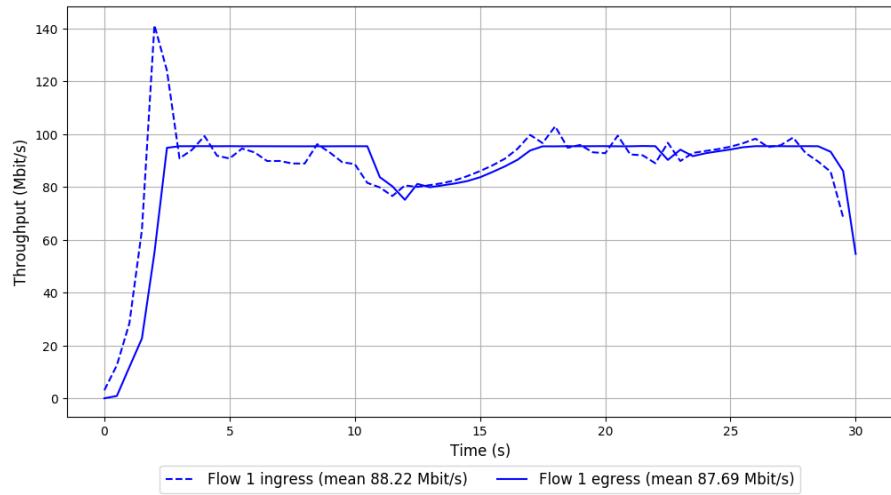


Run 4: Statistics of PCC-Expr

```
Start at: 2019-02-05 14:19:15
End at: 2019-02-05 14:19:45
Local clock offset: -1.597 ms
Remote clock offset: 0.866 ms

# Below is generated by plot.py at 2019-02-05 15:08:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 454.086 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 454.086 ms
Loss rate: 1.16%
```

Run 4: Report of PCC-Expr — Data Link

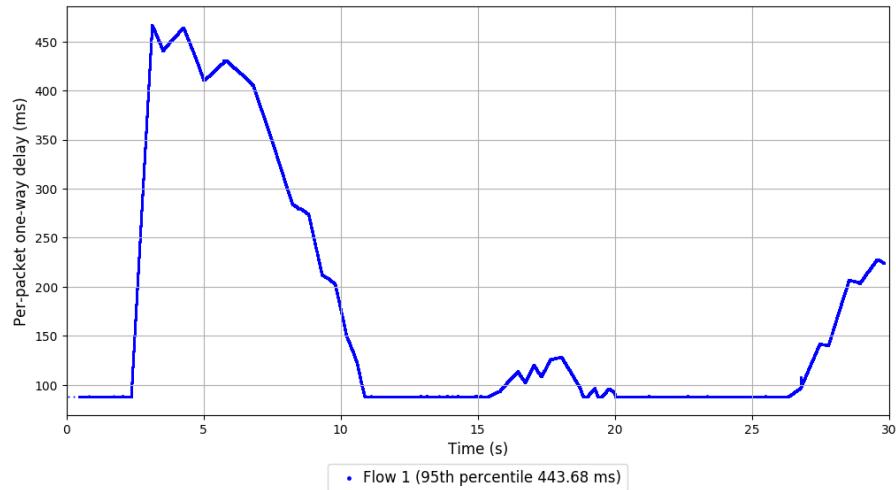
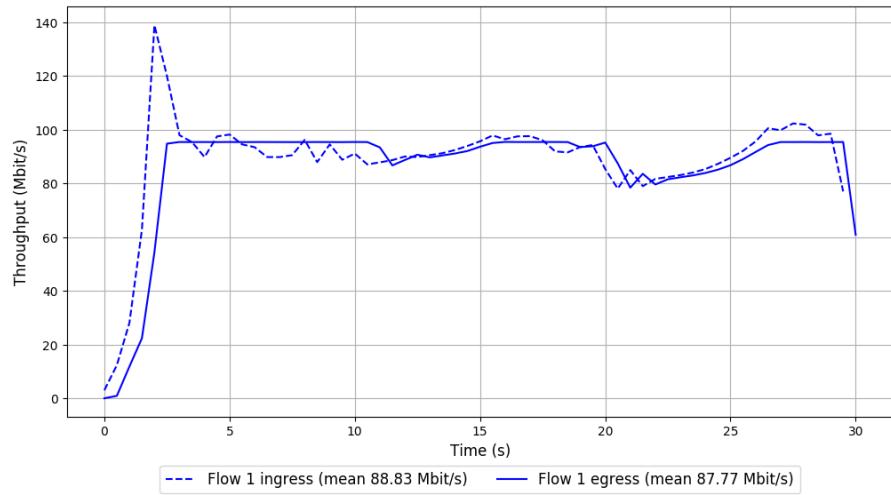


Run 5: Statistics of PCC-Expr

```
Start at: 2019-02-05 14:44:11
End at: 2019-02-05 14:44:42
Local clock offset: -6.995 ms
Remote clock offset: 6.836 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.77 Mbit/s
95th percentile per-packet one-way delay: 443.680 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 87.77 Mbit/s
95th percentile per-packet one-way delay: 443.680 ms
Loss rate: 1.77%
```

Run 5: Report of PCC-Expr — Data Link

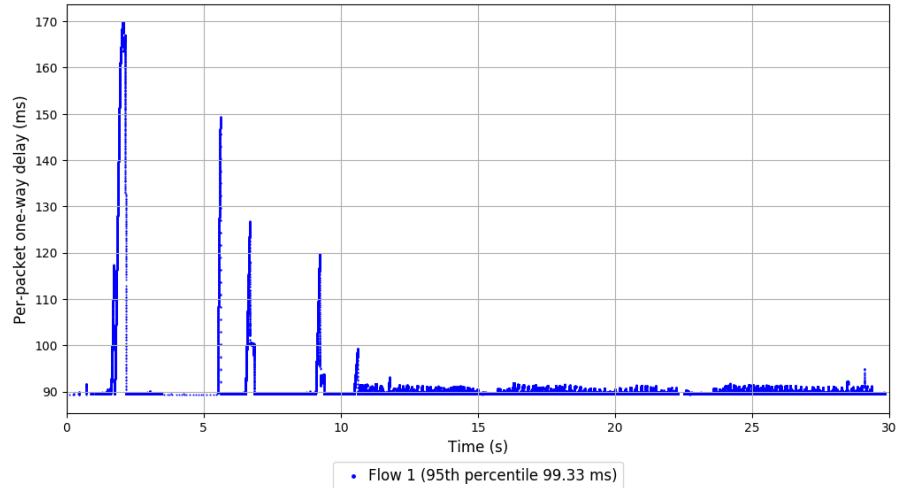
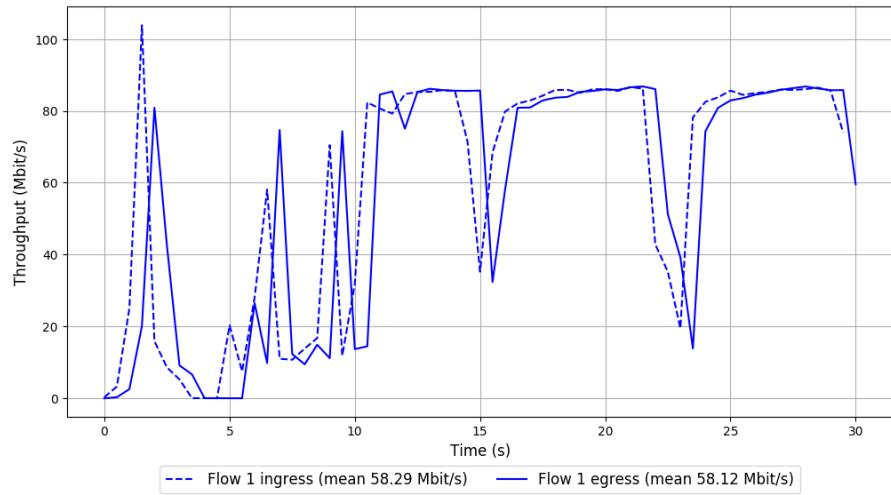


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-02-05 13:05:36
End at: 2019-02-05 13:06:06
Local clock offset: -6.658 ms
Remote clock offset: 3.96 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.12 Mbit/s
95th percentile per-packet one-way delay: 99.331 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 58.12 Mbit/s
95th percentile per-packet one-way delay: 99.331 ms
Loss rate: 0.85%
```

Run 1: Report of QUIC Cubic — Data Link

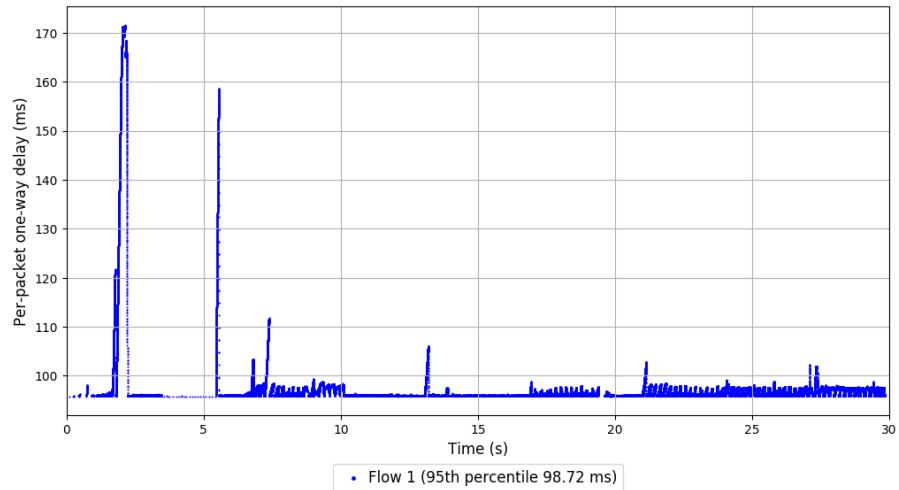
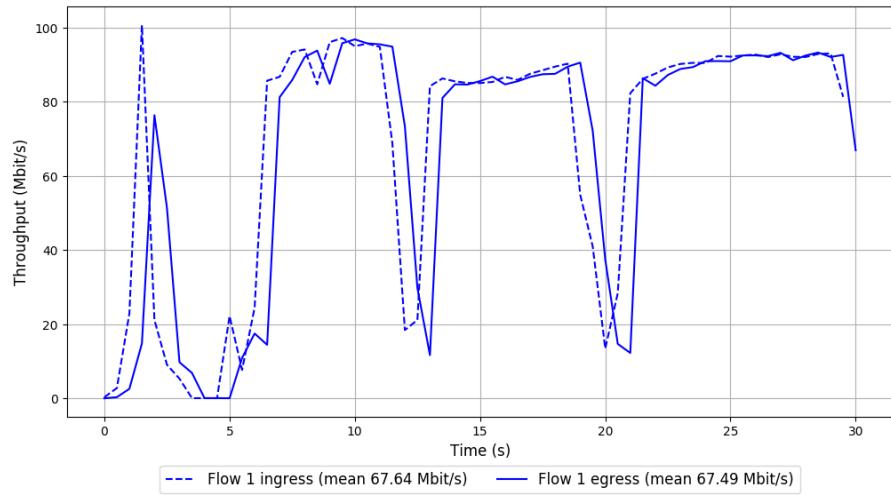


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-02-05 13:30:33
End at: 2019-02-05 13:31:03
Local clock offset: -6.208 ms
Remote clock offset: 3.721 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.49 Mbit/s
95th percentile per-packet one-way delay: 98.716 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 67.49 Mbit/s
95th percentile per-packet one-way delay: 98.716 ms
Loss rate: 0.81%
```

Run 2: Report of QUIC Cubic — Data Link

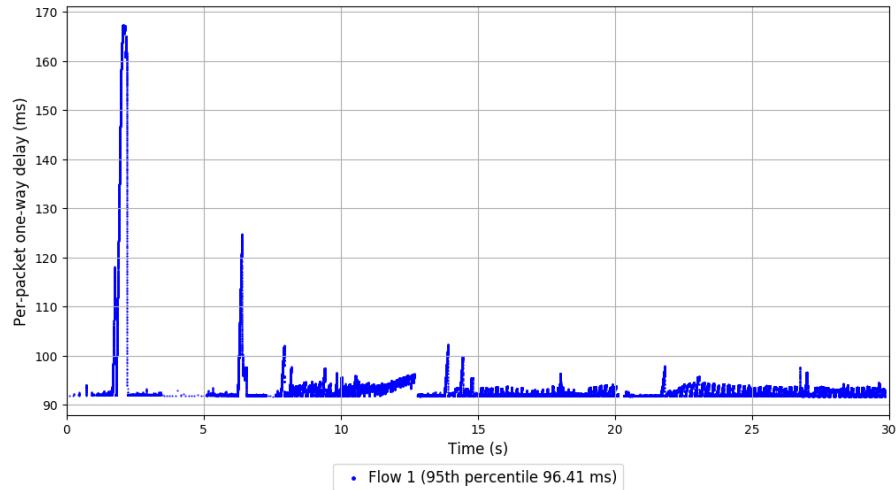
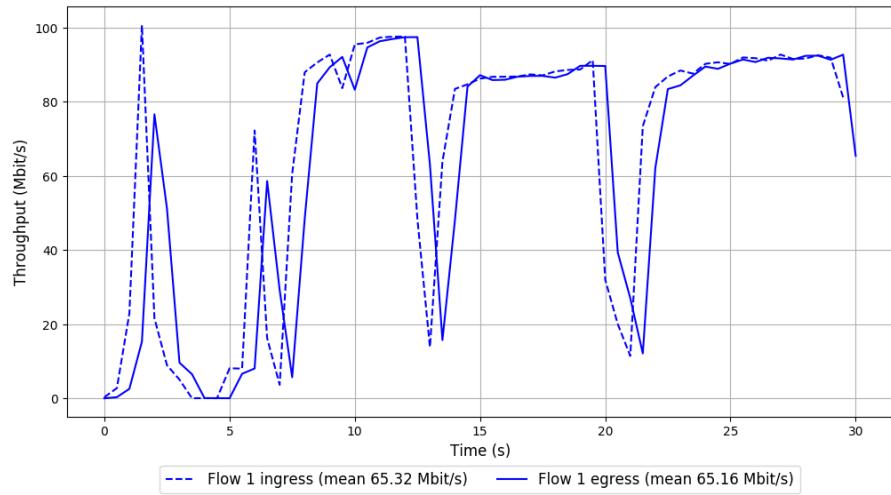


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-02-05 13:55:30
End at: 2019-02-05 13:56:00
Local clock offset: -2.283 ms
Remote clock offset: 7.544 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.16 Mbit/s
95th percentile per-packet one-way delay: 96.414 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 65.16 Mbit/s
95th percentile per-packet one-way delay: 96.414 ms
Loss rate: 0.84%
```

Run 3: Report of QUIC Cubic — Data Link

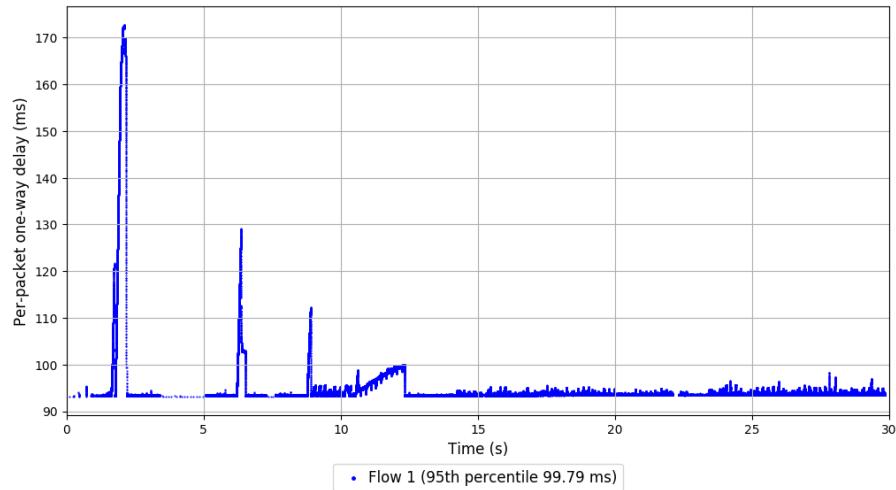
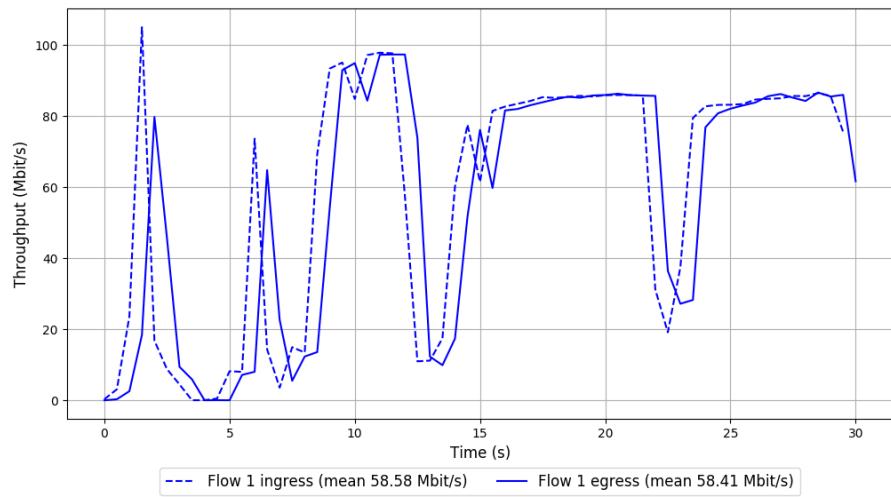


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-02-05 14:20:29
End at: 2019-02-05 14:20:59
Local clock offset: -2.287 ms
Remote clock offset: 0.735 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.41 Mbit/s
95th percentile per-packet one-way delay: 99.791 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 58.41 Mbit/s
95th percentile per-packet one-way delay: 99.791 ms
Loss rate: 0.85%
```

Run 4: Report of QUIC Cubic — Data Link

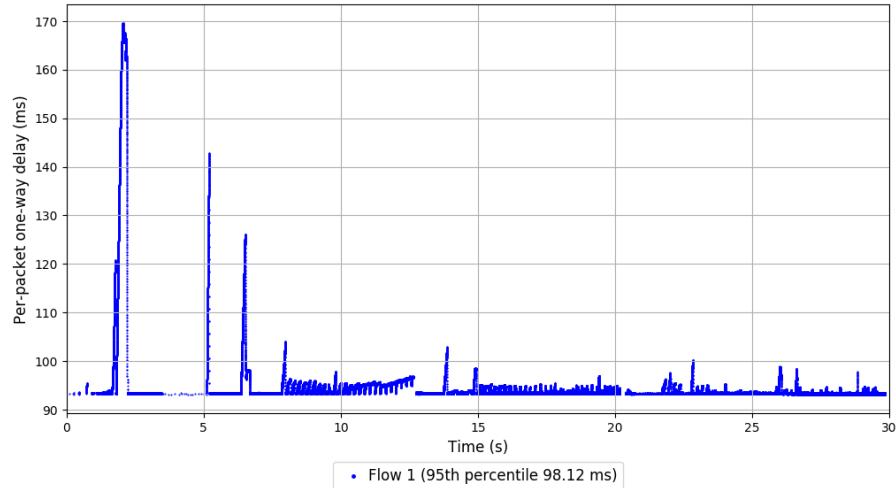
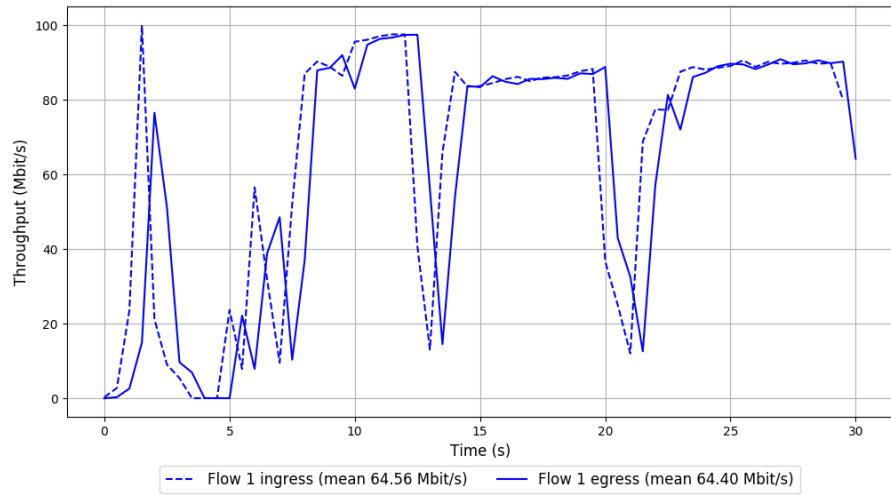


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-02-05 14:45:26
End at: 2019-02-05 14:45:56
Local clock offset: -7.071 ms
Remote clock offset: 5.814 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.40 Mbit/s
95th percentile per-packet one-way delay: 98.121 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 64.40 Mbit/s
95th percentile per-packet one-way delay: 98.121 ms
Loss rate: 0.83%
```

Run 5: Report of QUIC Cubic — Data Link

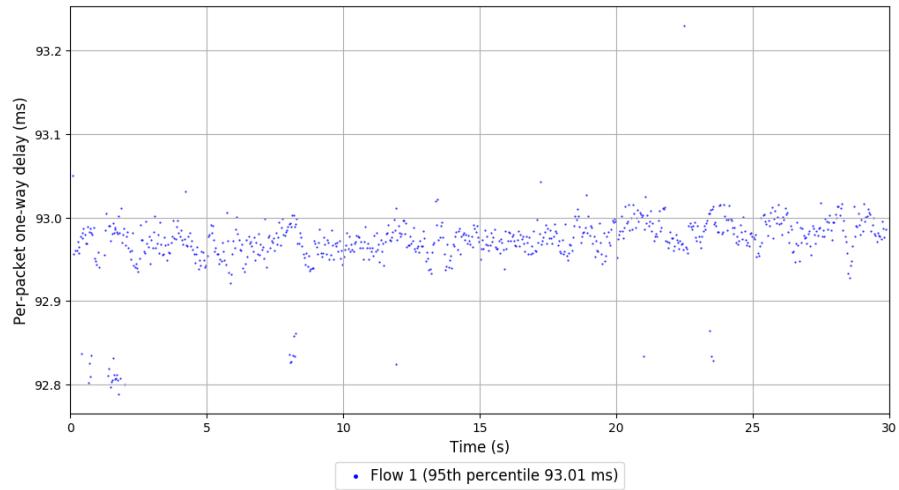
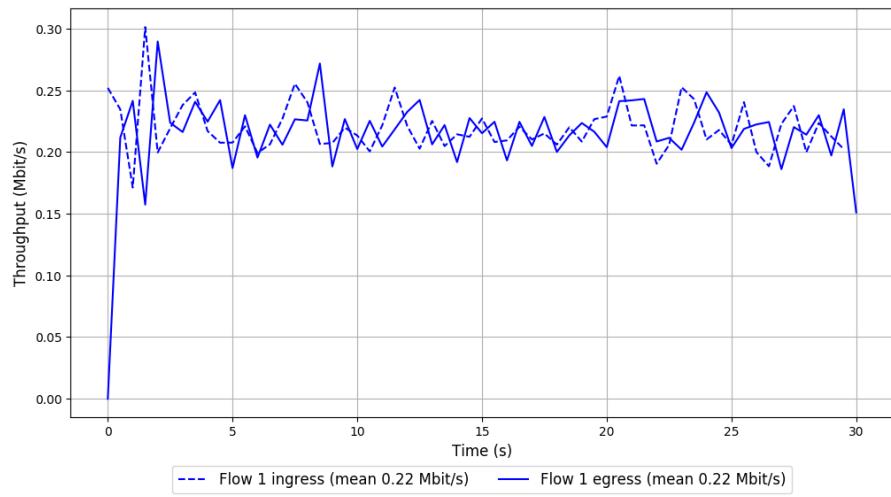


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-02-05 13:15:04
End at: 2019-02-05 13:15:34
Local clock offset: -6.732 ms
Remote clock offset: 3.324 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.006 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.006 ms
Loss rate: 0.64%
```

Run 1: Report of SCReAM — Data Link

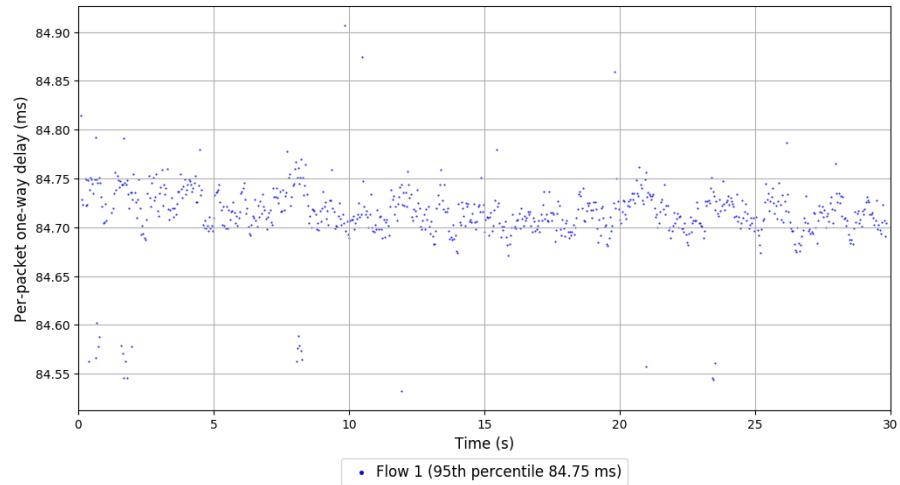
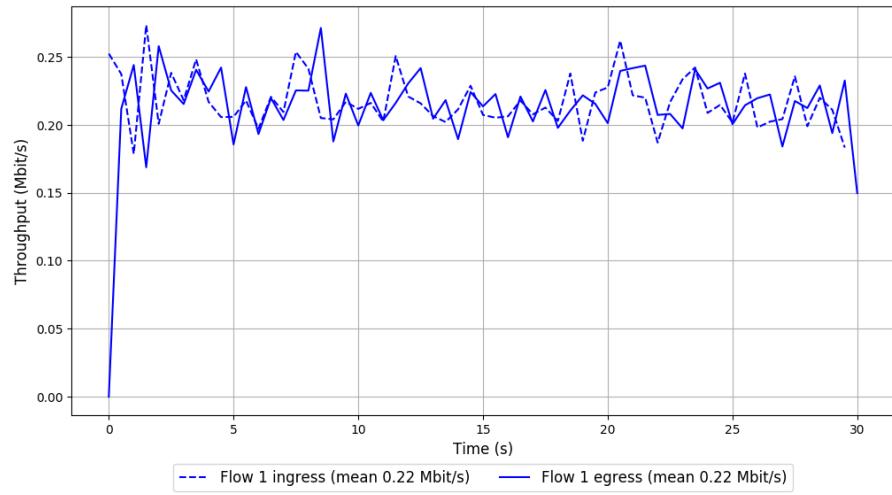


Run 2: Statistics of SCReAM

```
Start at: 2019-02-05 13:40:01
End at: 2019-02-05 13:40:31
Local clock offset: -6.136 ms
Remote clock offset: 8.669 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.751 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.751 ms
Loss rate: 0.51%
```

Run 2: Report of SCReAM — Data Link

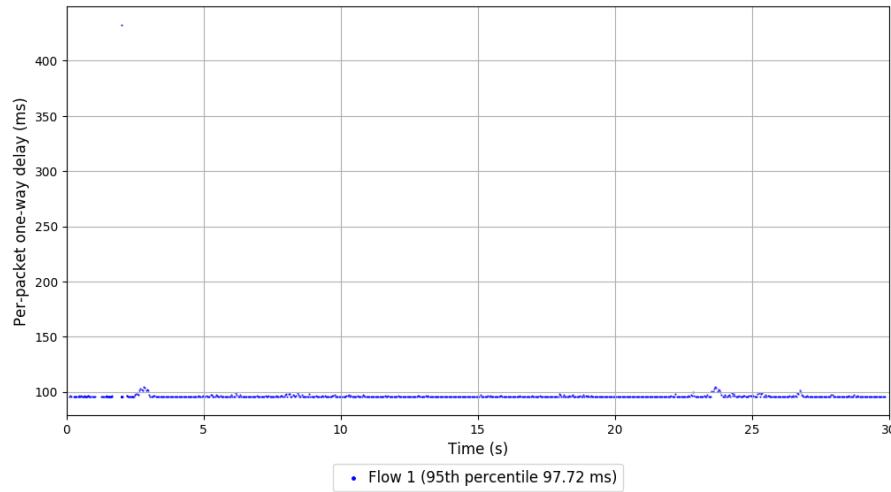
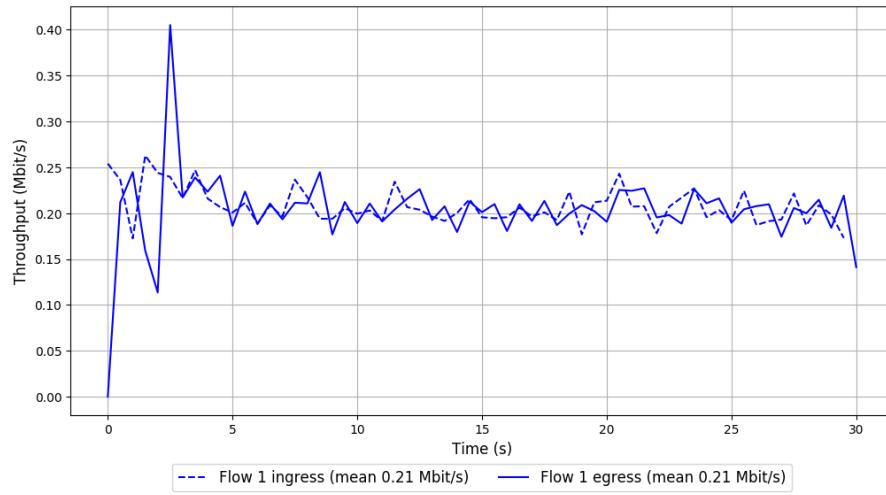


Run 3: Statistics of SCReAM

```
Start at: 2019-02-05 14:04:59
End at: 2019-02-05 14:05:29
Local clock offset: -0.603 ms
Remote clock offset: 2.591 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 97.718 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 97.718 ms
Loss rate: 0.50%
```

Run 3: Report of SCReAM — Data Link

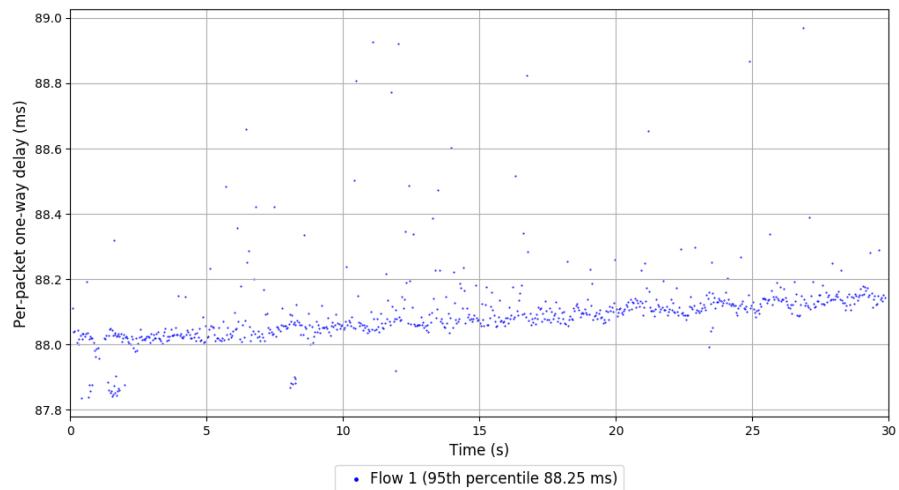
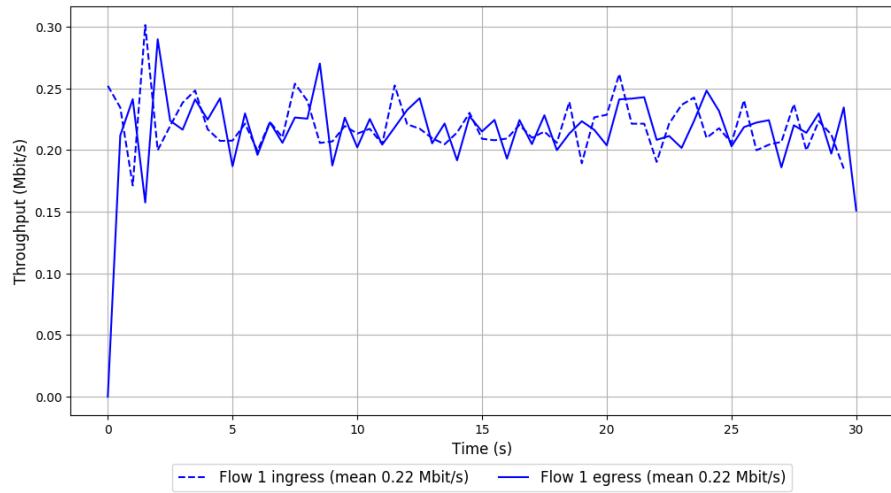


Run 4: Statistics of SCReAM

```
Start at: 2019-02-05 14:29:57
End at: 2019-02-05 14:30:27
Local clock offset: -5.403 ms
Remote clock offset: 5.988 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.248 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.248 ms
Loss rate: 0.51%
```

Run 4: Report of SCReAM — Data Link

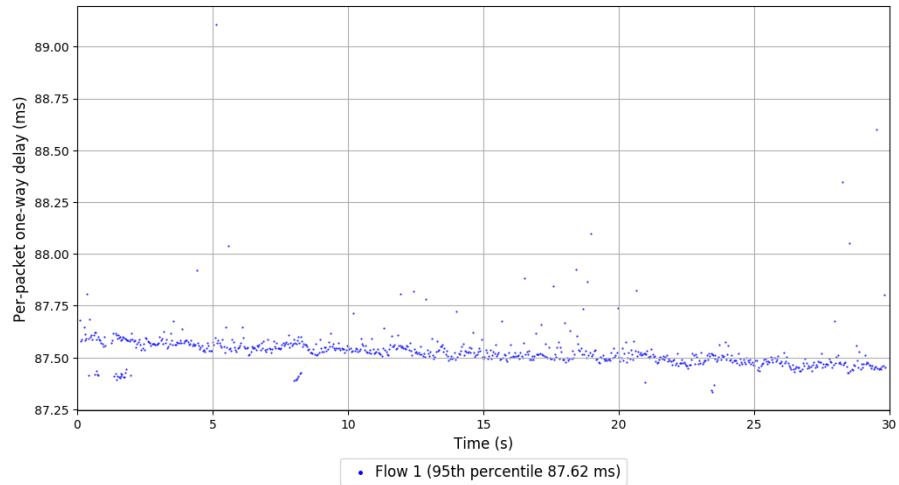
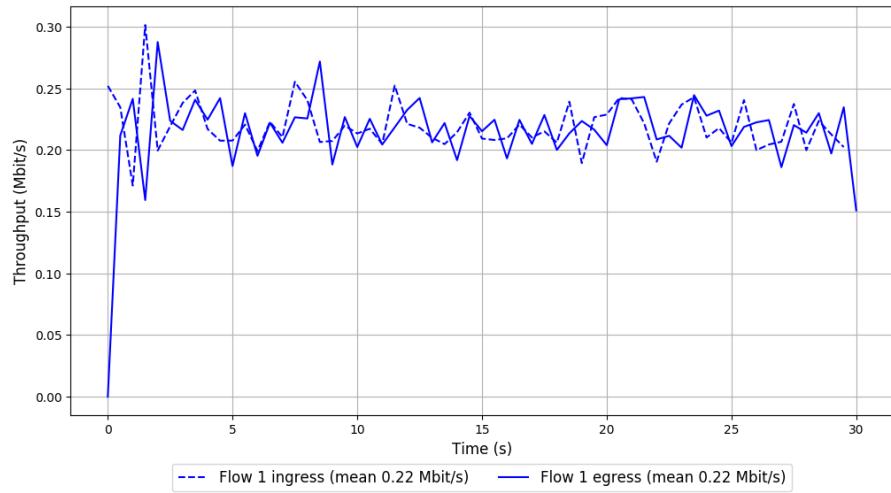


Run 5: Statistics of SCReAM

```
Start at: 2019-02-05 14:54:54
End at: 2019-02-05 14:55:24
Local clock offset: -3.267 ms
Remote clock offset: 7.338 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.618 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.618 ms
Loss rate: 0.64%
```

Run 5: Report of SCReAM — Data Link

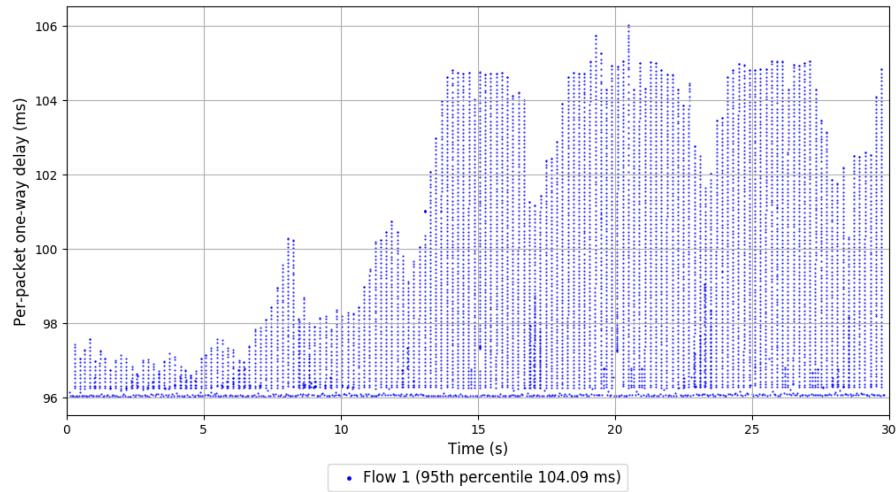
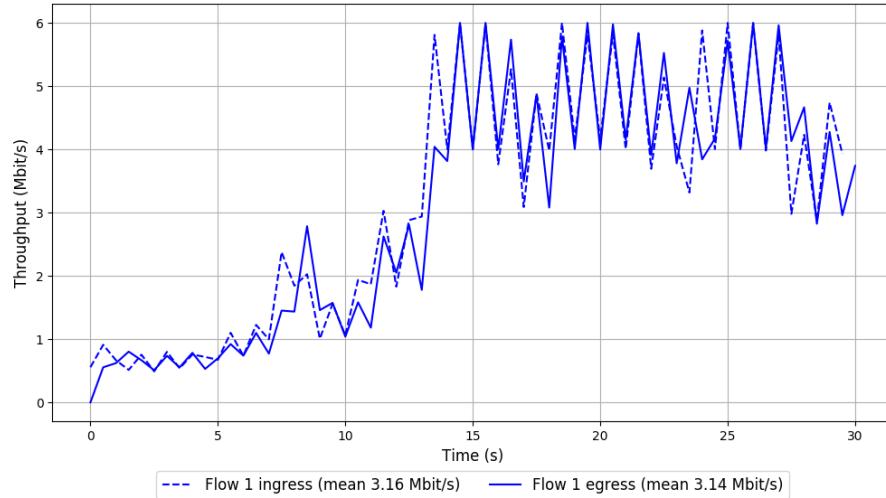


Run 1: Statistics of Sprout

```
Start at: 2019-02-05 13:13:56
End at: 2019-02-05 13:14:26
Local clock offset: -6.722 ms
Remote clock offset: 4.364 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 104.089 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 104.089 ms
Loss rate: 1.05%
```

Run 1: Report of Sprout — Data Link

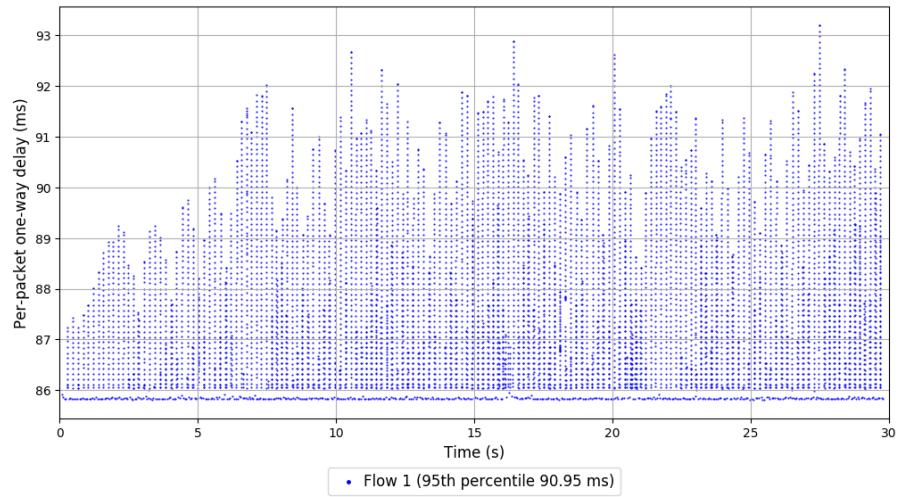
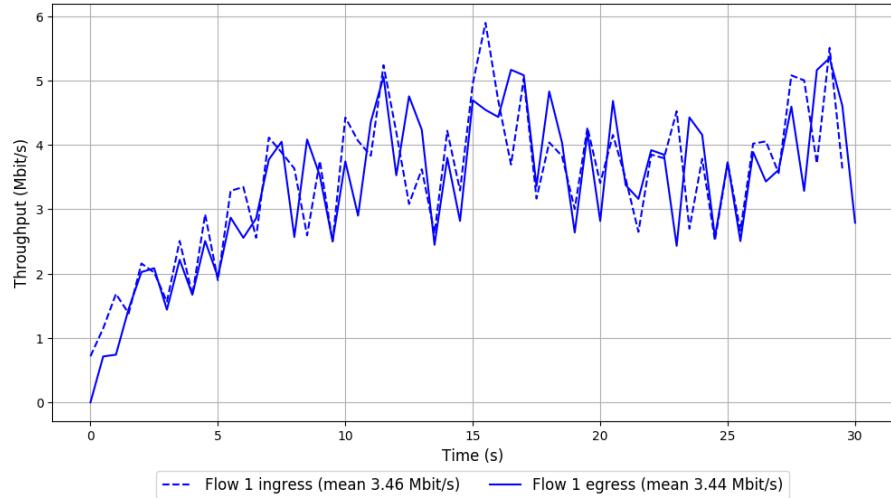


Run 2: Statistics of Sprout

```
Start at: 2019-02-05 13:38:53
End at: 2019-02-05 13:39:23
Local clock offset: -6.129 ms
Remote clock offset: 7.4 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 90.948 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 90.948 ms
Loss rate: 0.85%
```

Run 2: Report of Sprout — Data Link

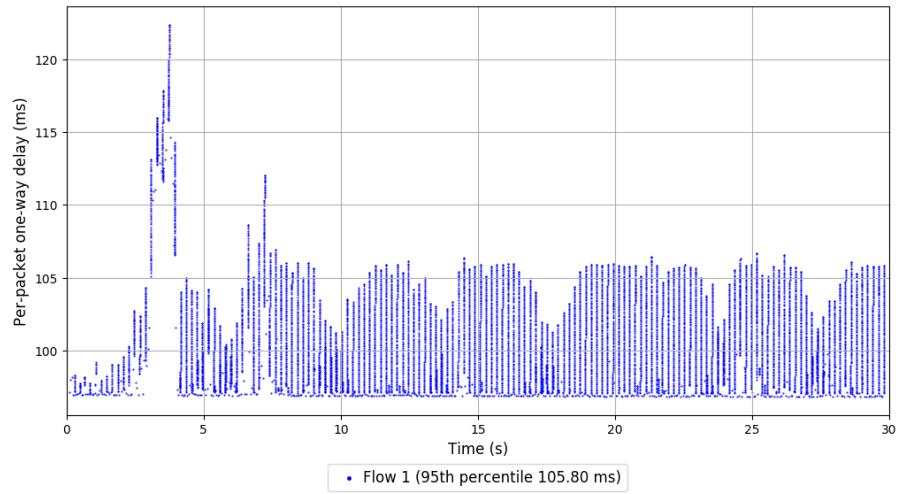
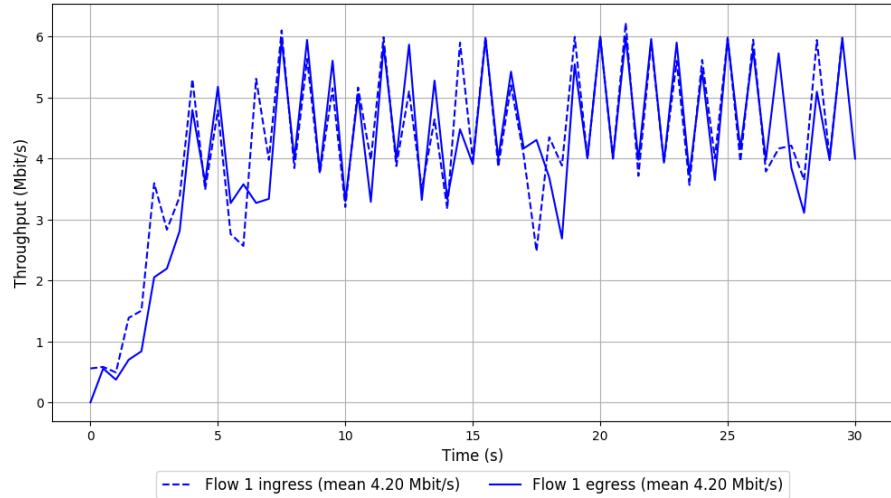


Run 3: Statistics of Sprout

```
Start at: 2019-02-05 14:03:51
End at: 2019-02-05 14:04:21
Local clock offset: -0.708 ms
Remote clock offset: 1.342 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 105.801 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 105.801 ms
Loss rate: 0.80%
```

Run 3: Report of Sprout — Data Link

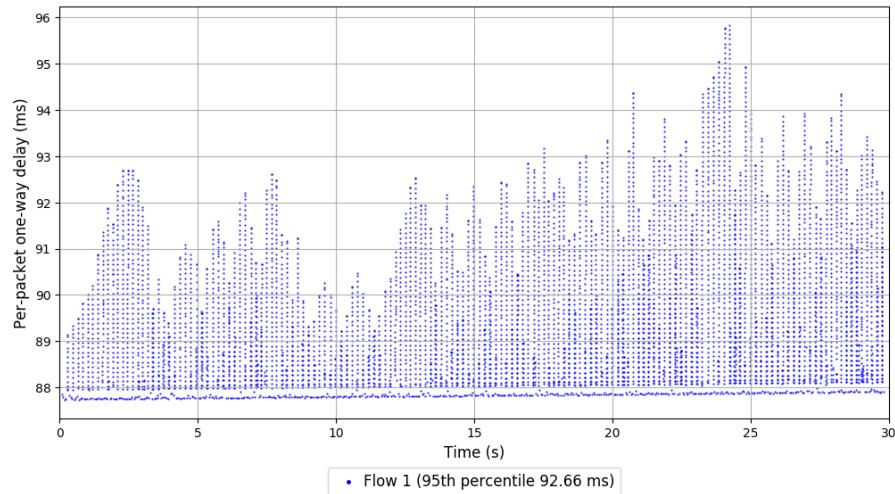
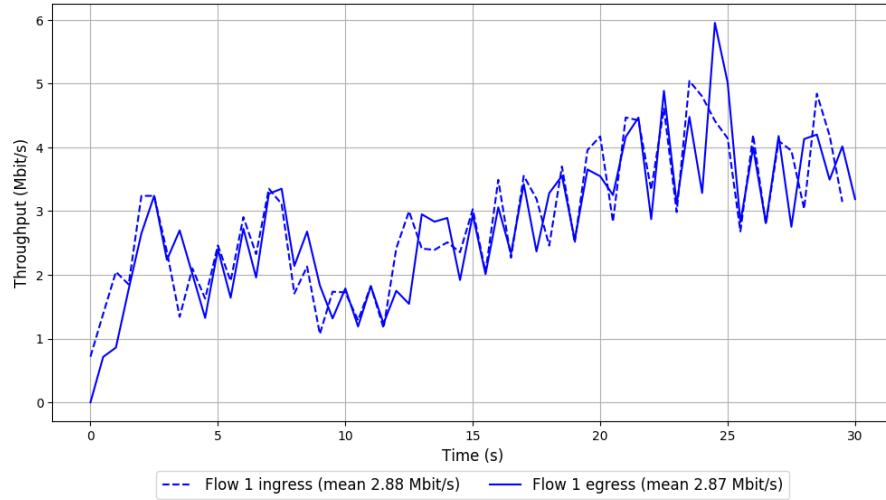


Run 4: Statistics of Sprout

```
Start at: 2019-02-05 14:28:49
End at: 2019-02-05 14:29:19
Local clock offset: -5.239 ms
Remote clock offset: 5.888 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 92.655 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 92.655 ms
Loss rate: 0.86%
```

Run 4: Report of Sprout — Data Link

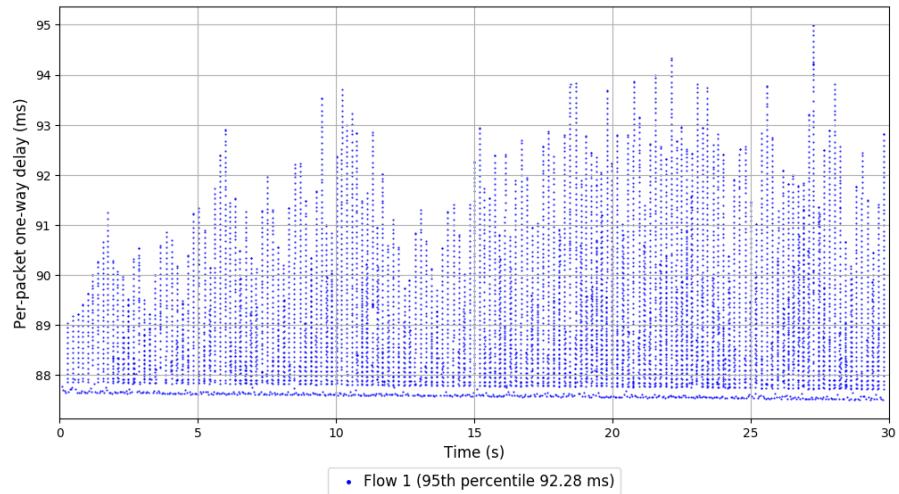
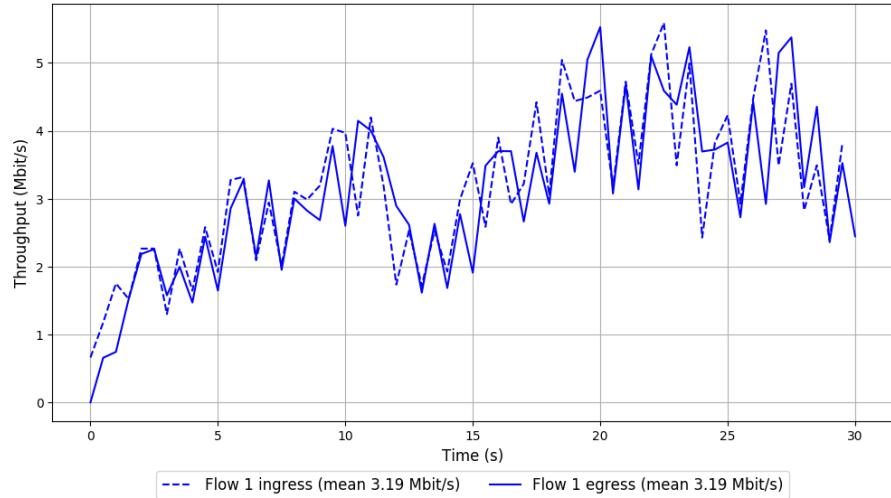


Run 5: Statistics of Sprout

```
Start at: 2019-02-05 14:53:46
End at: 2019-02-05 14:54:16
Local clock offset: -3.561 ms
Remote clock offset: 7.139 ms

# Below is generated by plot.py at 2019-02-05 15:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 92.276 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 92.276 ms
Loss rate: 0.72%
```

Run 5: Report of Sprout — Data Link

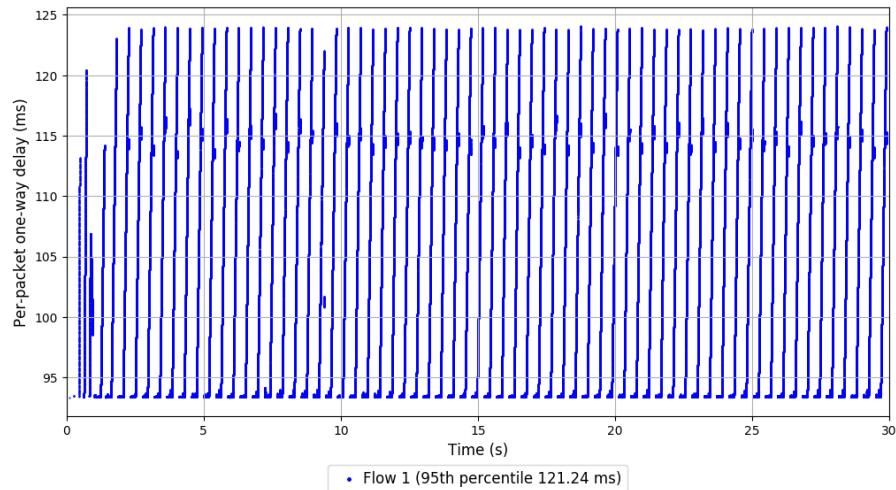
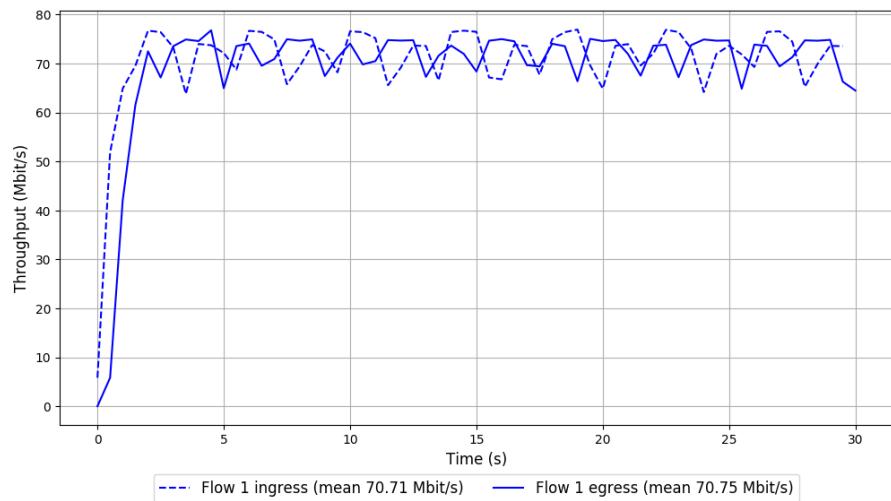


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-02-05 13:09:10
End at: 2019-02-05 13:09:40
Local clock offset: -6.732 ms
Remote clock offset: 6.823 ms

# Below is generated by plot.py at 2019-02-05 15:09:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.75 Mbit/s
95th percentile per-packet one-way delay: 121.243 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 70.75 Mbit/s
95th percentile per-packet one-way delay: 121.243 ms
Loss rate: 0.58%
```

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

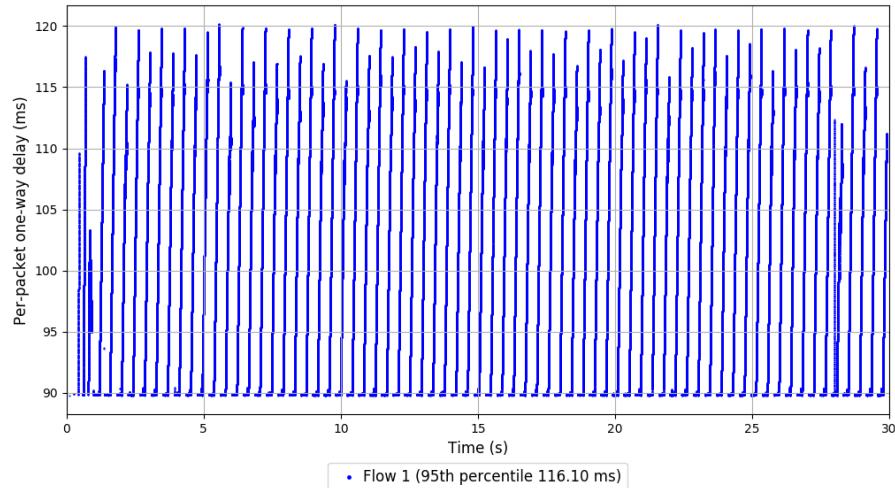
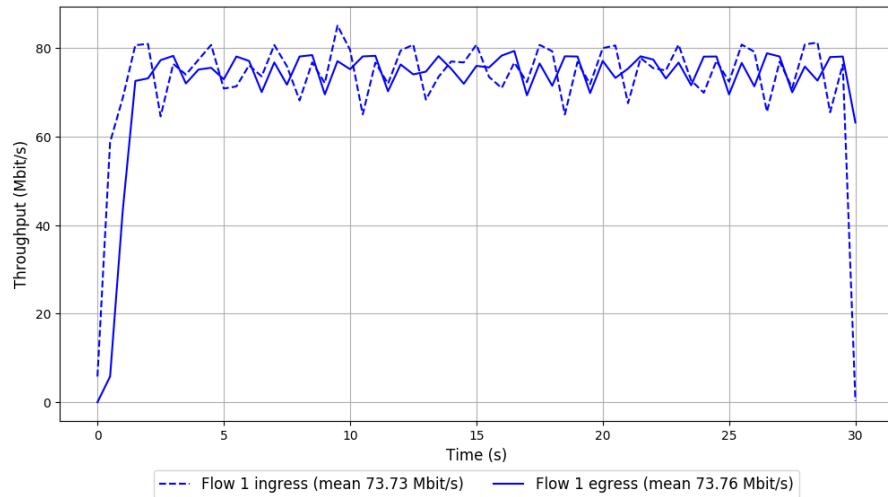


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-02-05 13:34:07
End at: 2019-02-05 13:34:37
Local clock offset: -6.236 ms
Remote clock offset: 3.502 ms

# Below is generated by plot.py at 2019-02-05 15:09:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.76 Mbit/s
95th percentile per-packet one-way delay: 116.103 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 73.76 Mbit/s
95th percentile per-packet one-way delay: 116.103 ms
Loss rate: 0.53%
```

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

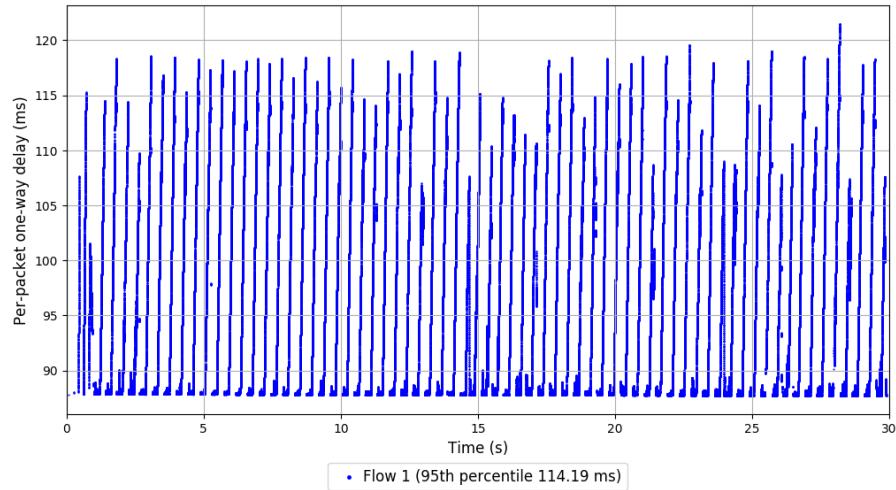
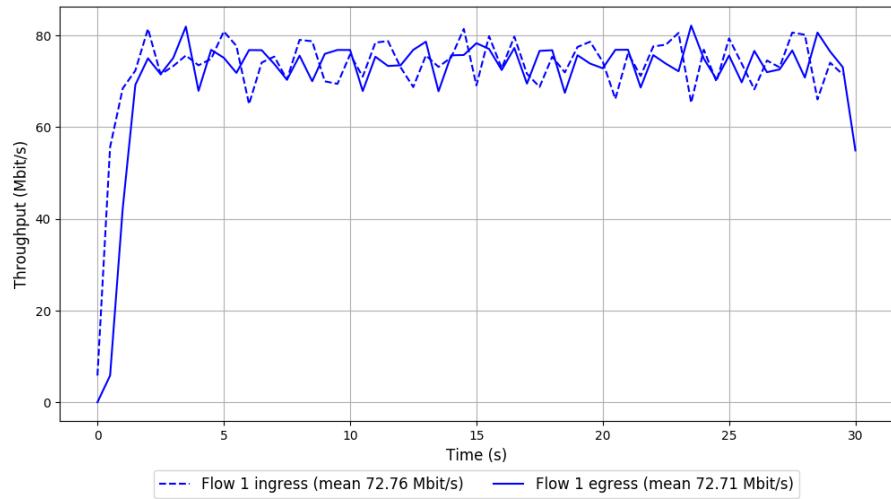


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-02-05 13:59:04
End at: 2019-02-05 13:59:34
Local clock offset: -1.515 ms
Remote clock offset: 6.967 ms

# Below is generated by plot.py at 2019-02-05 15:09:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.71 Mbit/s
95th percentile per-packet one-way delay: 114.187 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.71 Mbit/s
95th percentile per-packet one-way delay: 114.187 ms
Loss rate: 0.64%
```

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

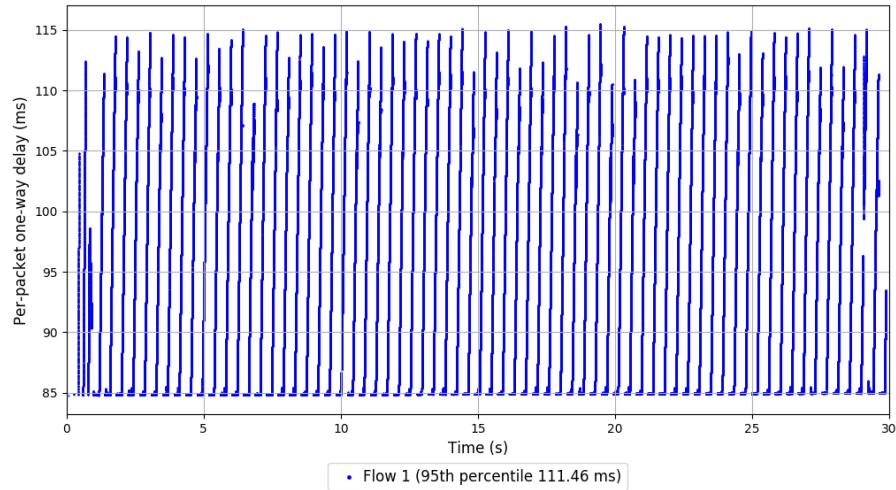
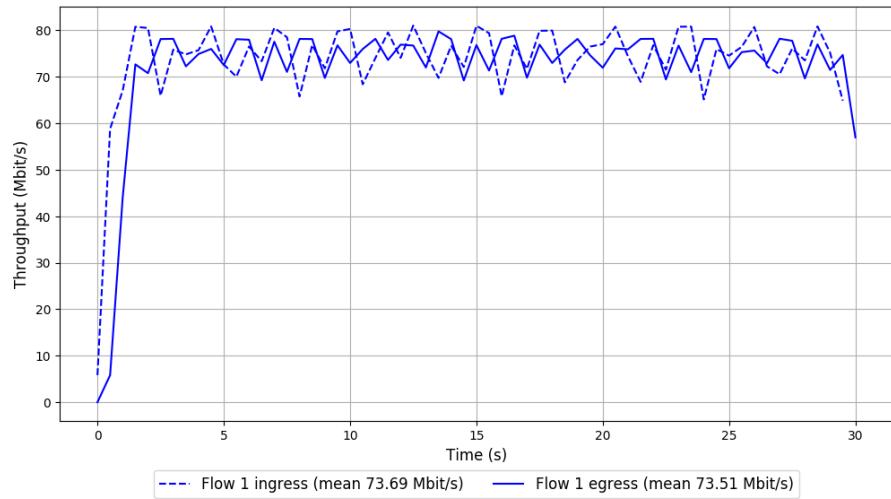


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-02-05 14:24:03
End at: 2019-02-05 14:24:33
Local clock offset: -3.903 ms
Remote clock offset: 6.924 ms

# Below is generated by plot.py at 2019-02-05 15:09:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.51 Mbit/s
95th percentile per-packet one-way delay: 111.457 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 73.51 Mbit/s
95th percentile per-packet one-way delay: 111.457 ms
Loss rate: 0.66%
```

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

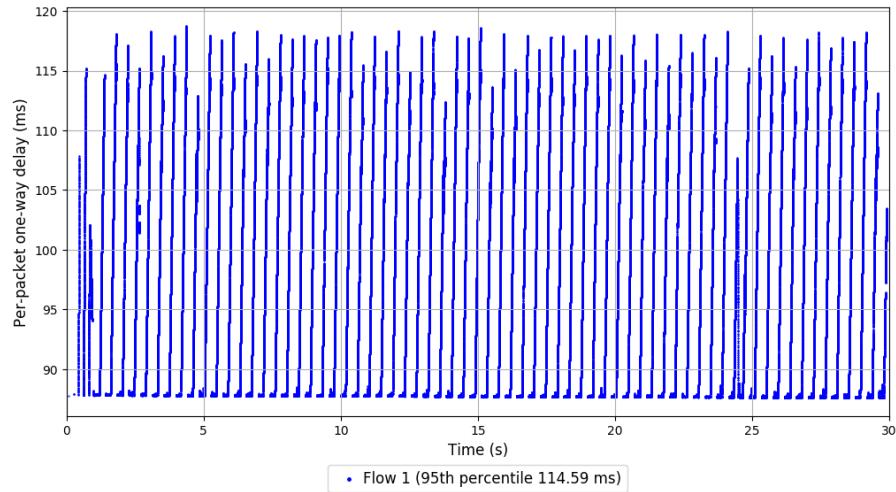
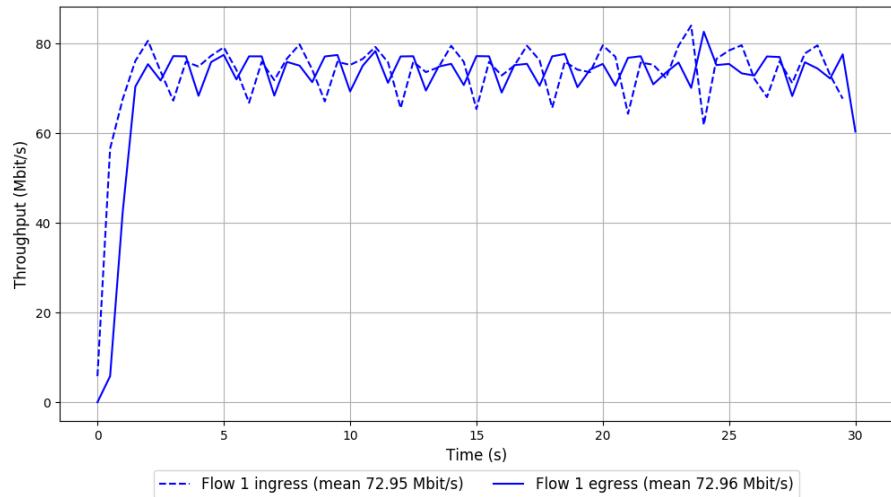


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-02-05 14:49:00
End at: 2019-02-05 14:49:30
Local clock offset: -5.411 ms
Remote clock offset: 6.957 ms

# Below is generated by plot.py at 2019-02-05 15:09:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.96 Mbit/s
95th percentile per-packet one-way delay: 114.586 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 72.96 Mbit/s
95th percentile per-packet one-way delay: 114.586 ms
Loss rate: 0.57%
```

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

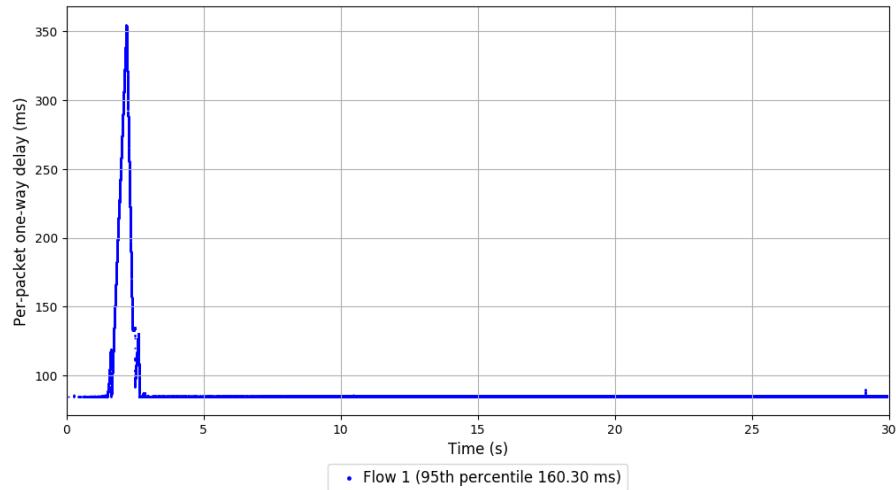
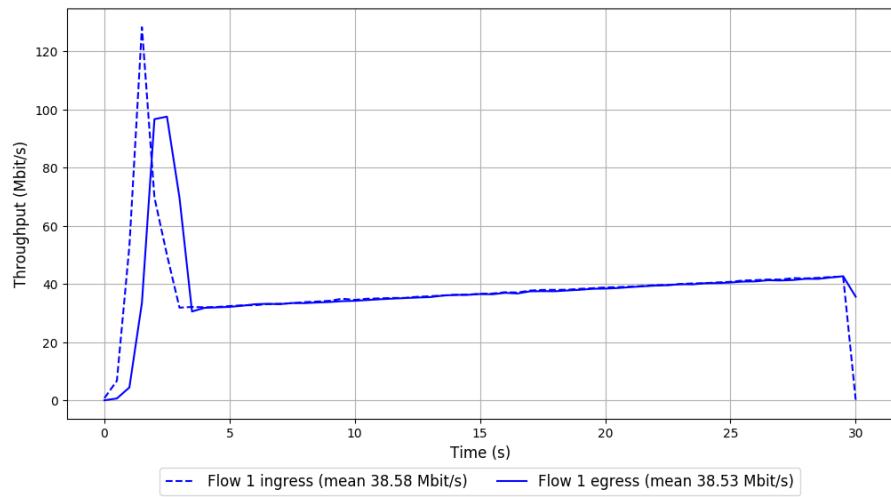


Run 1: Statistics of TCP Vegas

```
Start at: 2019-02-05 13:11:35
End at: 2019-02-05 13:12:05
Local clock offset: -6.736 ms
Remote clock offset: 9.075 ms

# Below is generated by plot.py at 2019-02-05 15:09:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.53 Mbit/s
95th percentile per-packet one-way delay: 160.302 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 38.53 Mbit/s
95th percentile per-packet one-way delay: 160.302 ms
Loss rate: 0.69%
```

Run 1: Report of TCP Vegas — Data Link

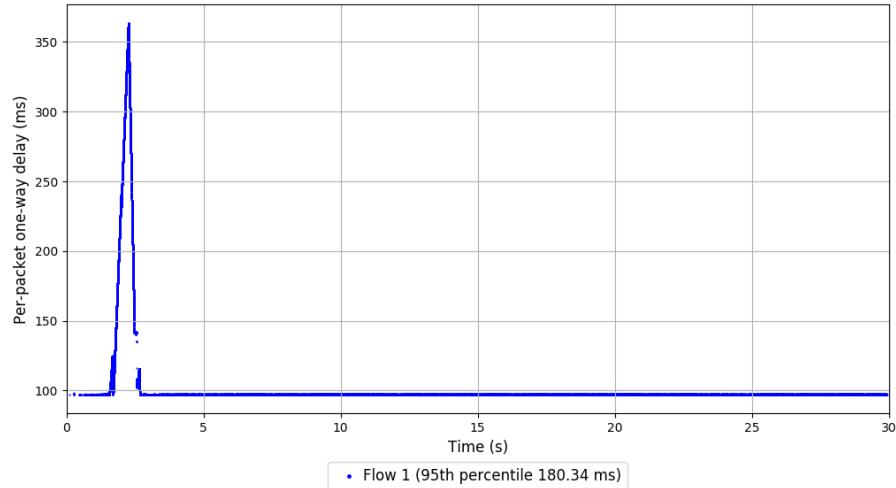
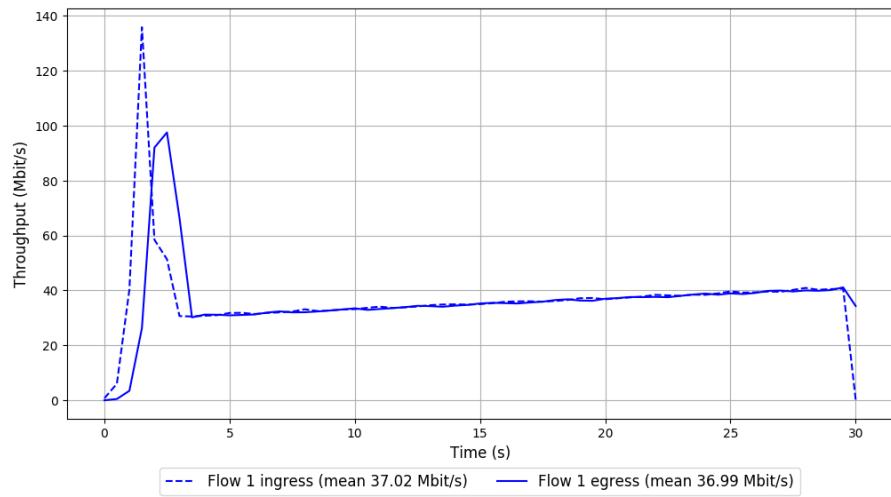


Run 2: Statistics of TCP Vegas

```
Start at: 2019-02-05 13:36:32
End at: 2019-02-05 13:37:02
Local clock offset: -6.198 ms
Remote clock offset: 2.513 ms

# Below is generated by plot.py at 2019-02-05 15:09:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.99 Mbit/s
95th percentile per-packet one-way delay: 180.344 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 36.99 Mbit/s
95th percentile per-packet one-way delay: 180.344 ms
Loss rate: 0.68%
```

Run 2: Report of TCP Vegas — Data Link

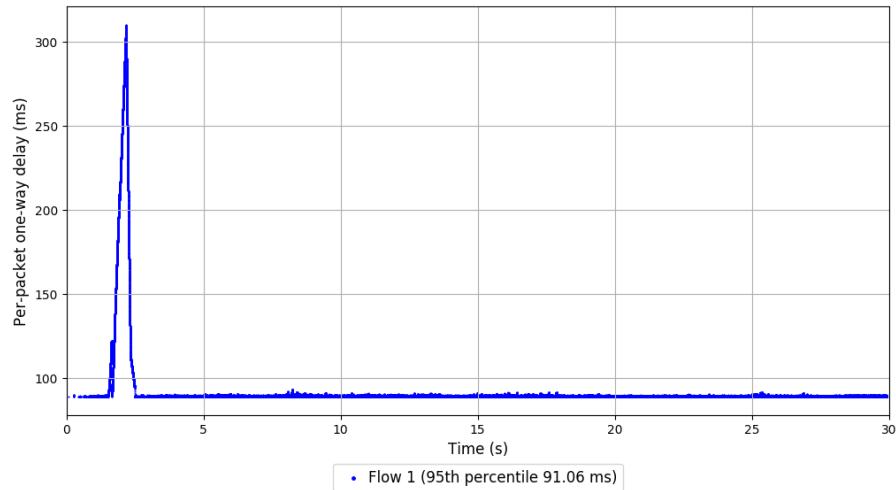
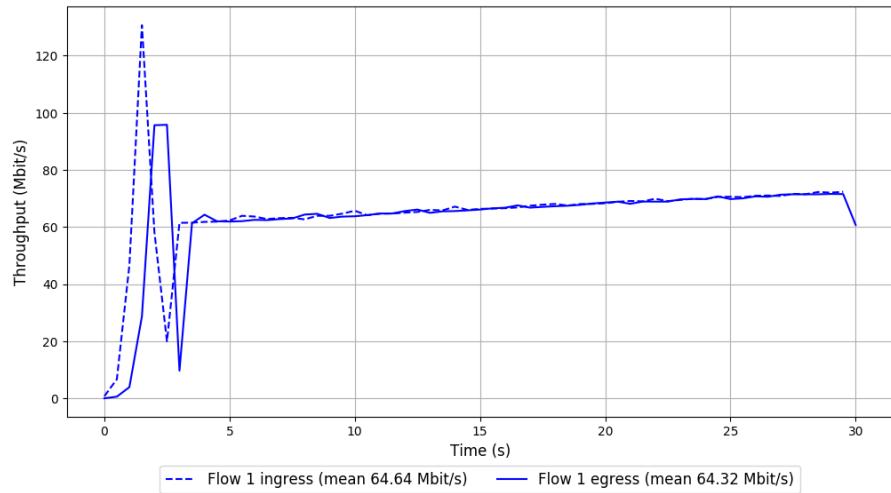


Run 3: Statistics of TCP Vegas

```
Start at: 2019-02-05 14:01:29
End at: 2019-02-05 14:01:59
Local clock offset: -1.034 ms
Remote clock offset: 5.473 ms

# Below is generated by plot.py at 2019-02-05 15:09:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 91.063 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 91.063 ms
Loss rate: 1.06%
```

Run 3: Report of TCP Vegas — Data Link

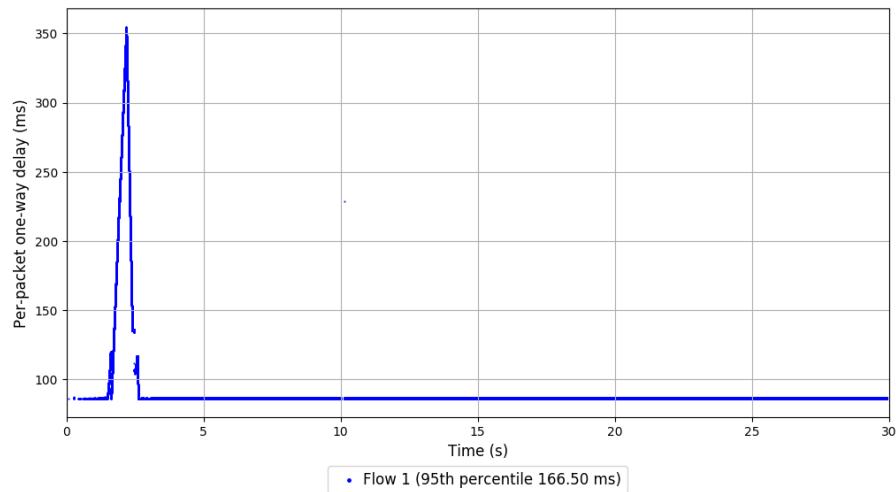
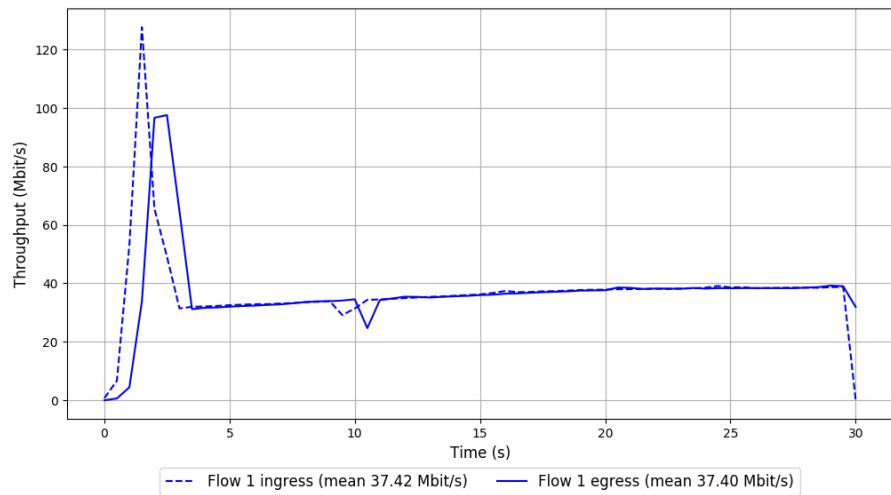


Run 4: Statistics of TCP Vegas

```
Start at: 2019-02-05 14:26:28
End at: 2019-02-05 14:26:58
Local clock offset: -4.69 ms
Remote clock offset: 5.606 ms

# Below is generated by plot.py at 2019-02-05 15:09:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.40 Mbit/s
95th percentile per-packet one-way delay: 166.505 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 37.40 Mbit/s
95th percentile per-packet one-way delay: 166.505 ms
Loss rate: 0.62%
```

Run 4: Report of TCP Vegas — Data Link

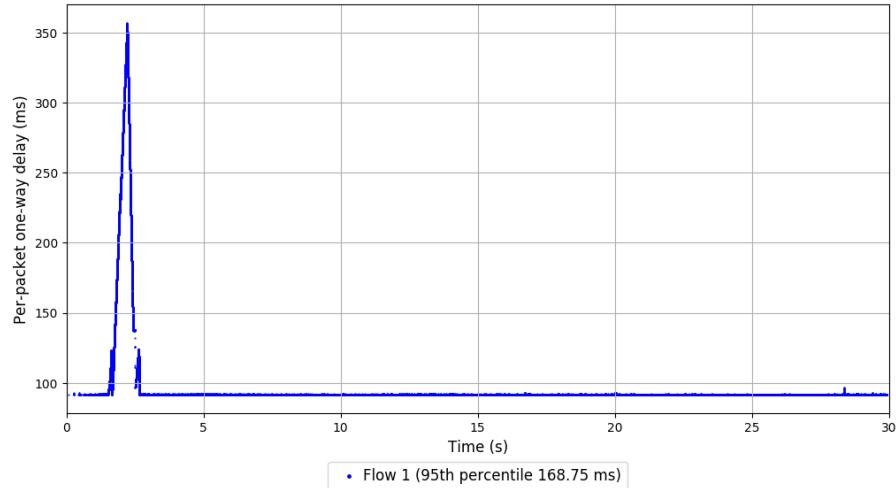
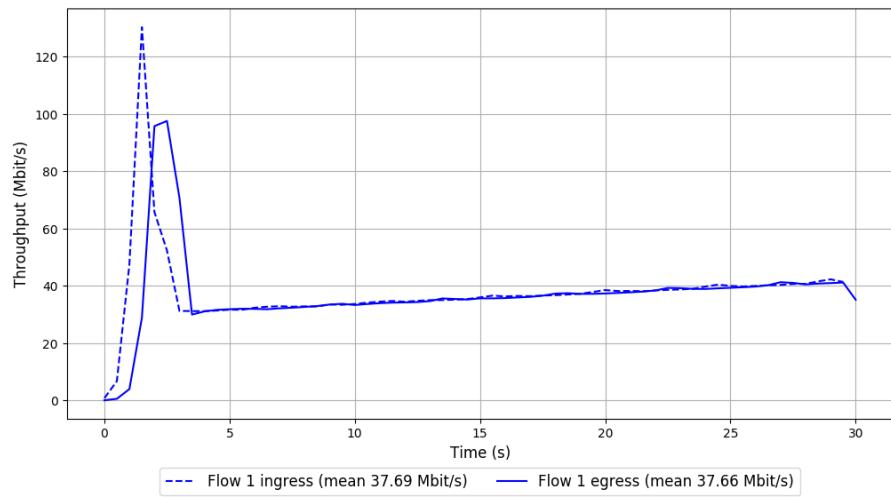


Run 5: Statistics of TCP Vegas

```
Start at: 2019-02-05 14:51:25
End at: 2019-02-05 14:51:55
Local clock offset: -4.363 ms
Remote clock offset: 3.223 ms

# Below is generated by plot.py at 2019-02-05 15:09:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.66 Mbit/s
95th percentile per-packet one-way delay: 168.745 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 37.66 Mbit/s
95th percentile per-packet one-way delay: 168.745 ms
Loss rate: 0.67%
```

Run 5: Report of TCP Vegas — Data Link

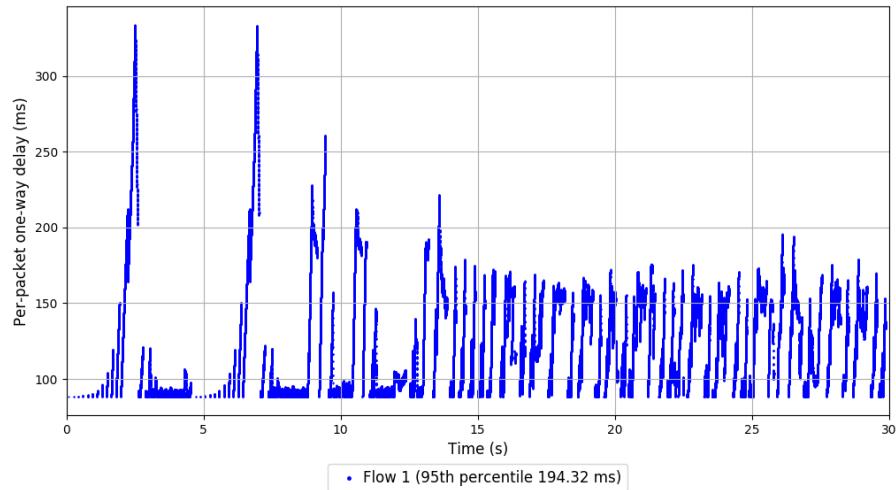
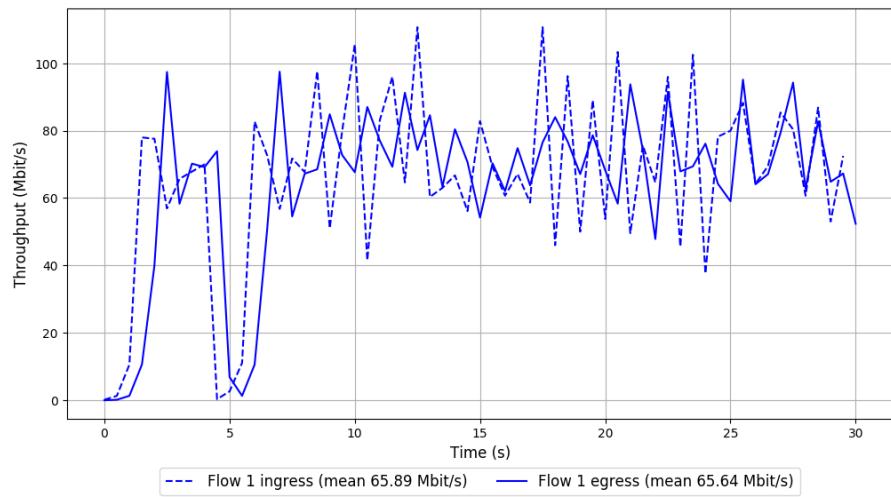


Run 1: Statistics of Verus

```
Start at: 2019-02-05 13:12:44
End at: 2019-02-05 13:13:14
Local clock offset: -6.695 ms
Remote clock offset: 8.221 ms

# Below is generated by plot.py at 2019-02-05 15:09:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.64 Mbit/s
95th percentile per-packet one-way delay: 194.324 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 65.64 Mbit/s
95th percentile per-packet one-way delay: 194.324 ms
Loss rate: 0.97%
```

Run 1: Report of Verus — Data Link

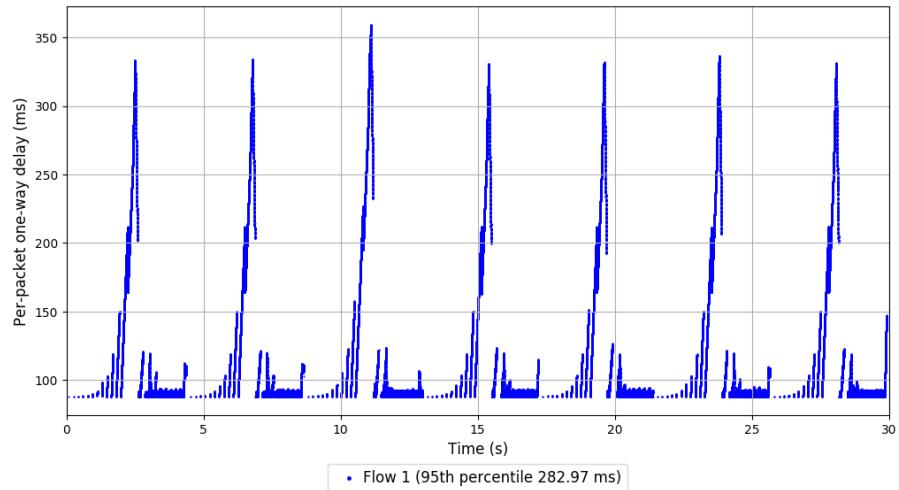
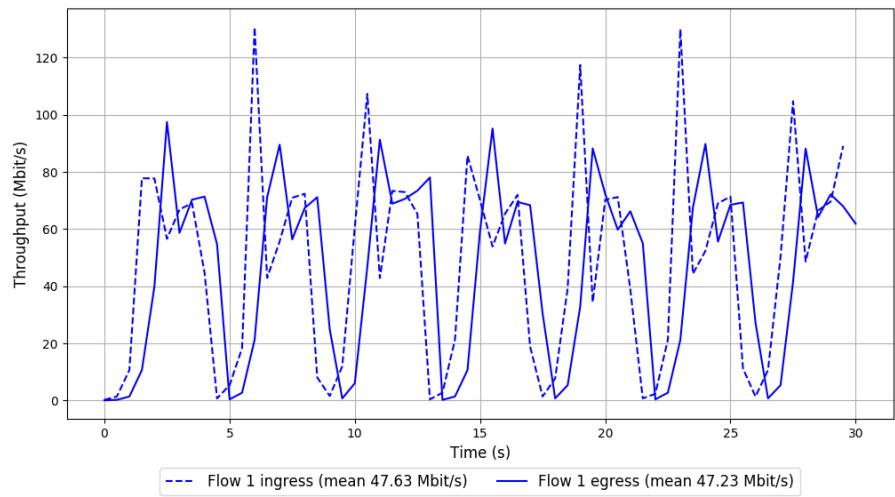


Run 2: Statistics of Verus

```
Start at: 2019-02-05 13:37:42
End at: 2019-02-05 13:38:12
Local clock offset: -6.134 ms
Remote clock offset: 7.762 ms

# Below is generated by plot.py at 2019-02-05 15:09:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.23 Mbit/s
95th percentile per-packet one-way delay: 282.974 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 47.23 Mbit/s
95th percentile per-packet one-way delay: 282.974 ms
Loss rate: 1.43%
```

Run 2: Report of Verus — Data Link

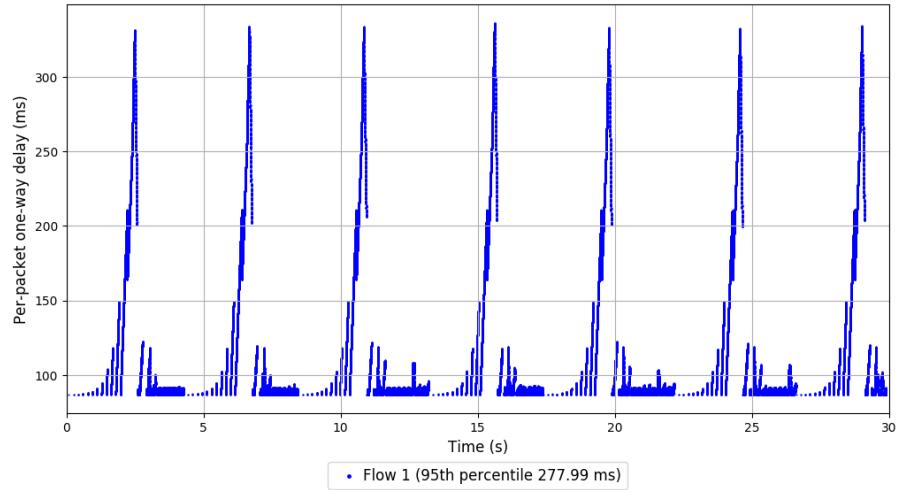
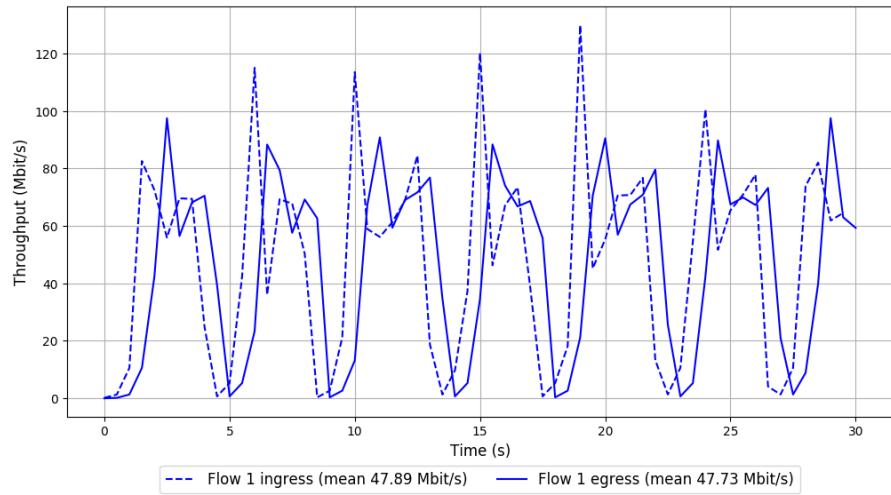


Run 3: Statistics of Verus

```
Start at: 2019-02-05 14:02:40
End at: 2019-02-05 14:03:10
Local clock offset: -0.868 ms
Remote clock offset: 5.479 ms

# Below is generated by plot.py at 2019-02-05 15:09:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.73 Mbit/s
95th percentile per-packet one-way delay: 277.989 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 47.73 Mbit/s
95th percentile per-packet one-way delay: 277.989 ms
Loss rate: 0.91%
```

Run 3: Report of Verus — Data Link

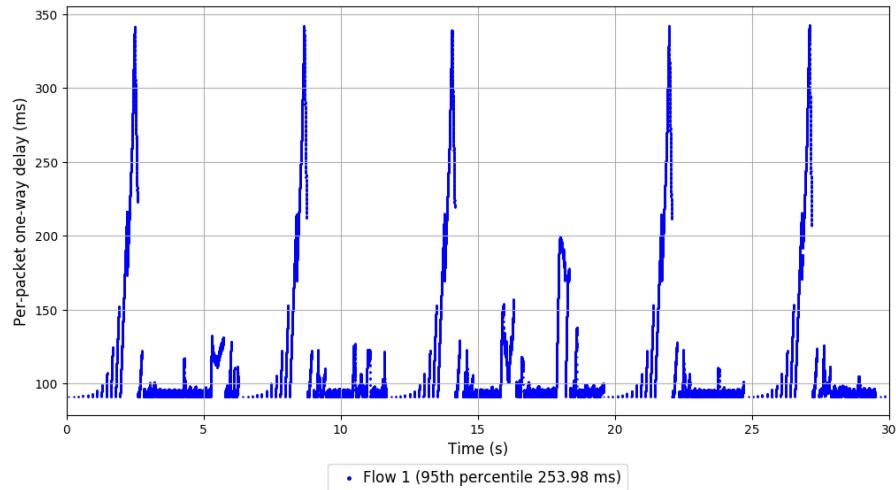
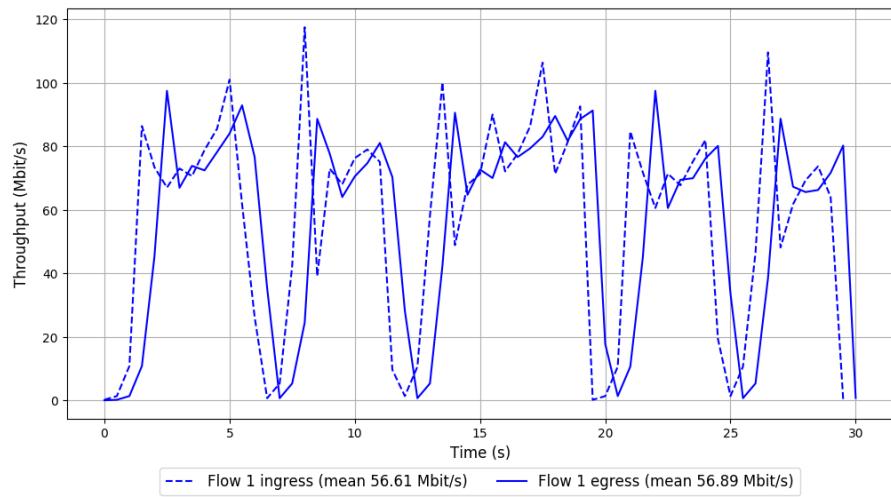


Run 4: Statistics of Verus

```
Start at: 2019-02-05 14:27:38
End at: 2019-02-05 14:28:08
Local clock offset: -4.972 ms
Remote clock offset: 0.46 ms

# Below is generated by plot.py at 2019-02-05 15:09:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.89 Mbit/s
95th percentile per-packet one-way delay: 253.980 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 56.89 Mbit/s
95th percentile per-packet one-way delay: 253.980 ms
Loss rate: 0.07%
```

Run 4: Report of Verus — Data Link

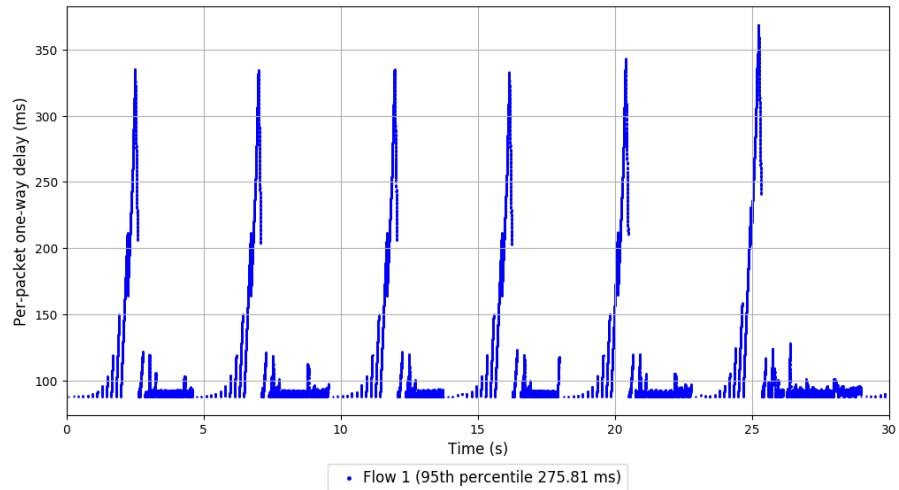
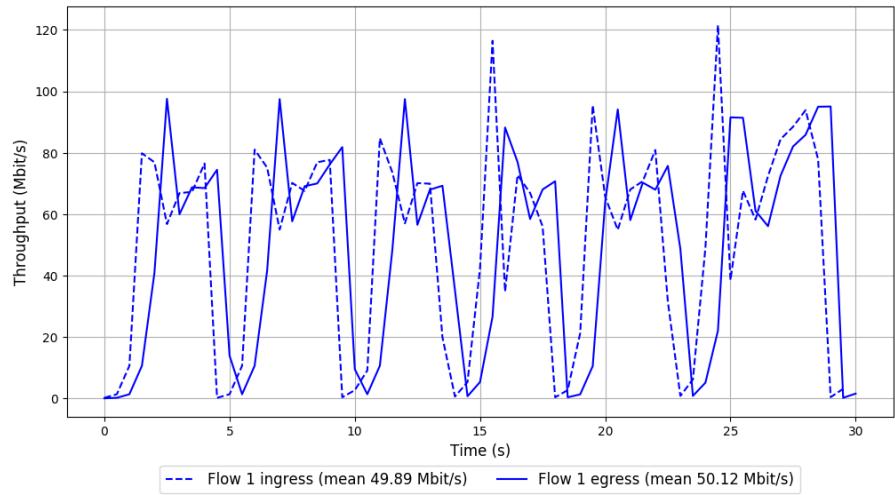


Run 5: Statistics of Verus

```
Start at: 2019-02-05 14:52:35
End at: 2019-02-05 14:53:05
Local clock offset: -3.991 ms
Remote clock offset: 7.088 ms

# Below is generated by plot.py at 2019-02-05 15:09:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.12 Mbit/s
95th percentile per-packet one-way delay: 275.810 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 50.12 Mbit/s
95th percentile per-packet one-way delay: 275.810 ms
Loss rate: 0.12%
```

Run 5: Report of Verus — Data Link

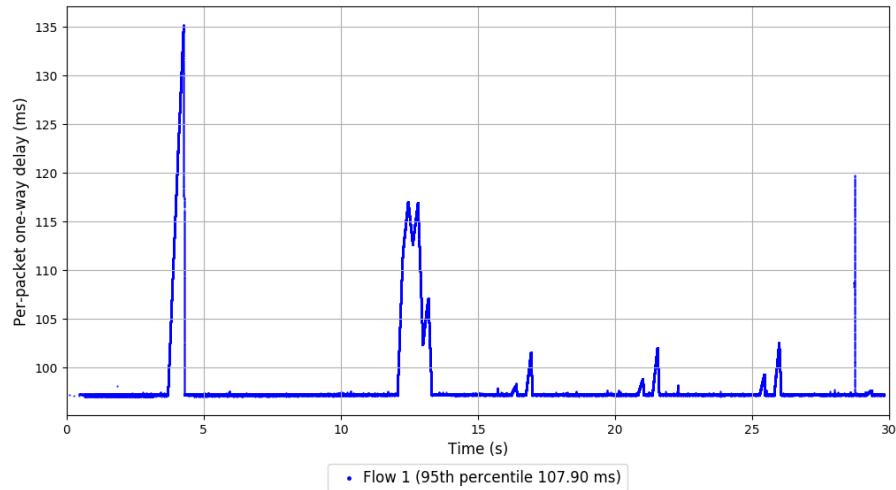
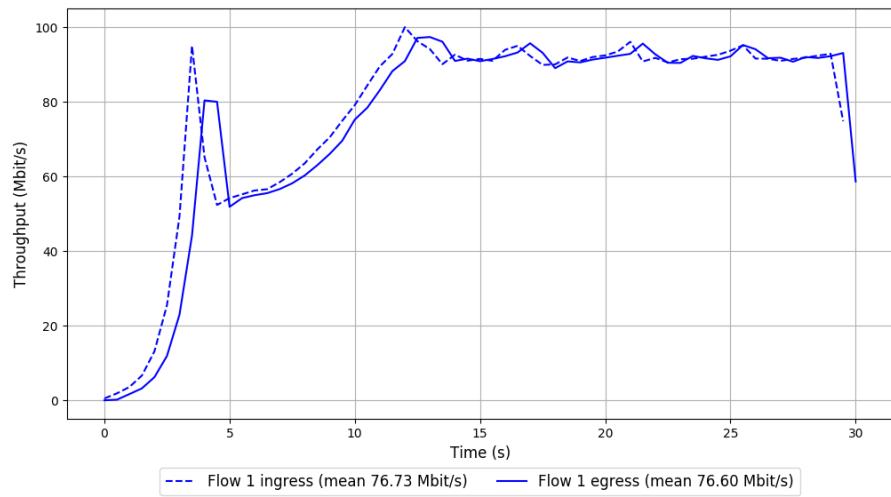


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-02-05 13:16:11
End at: 2019-02-05 13:16:41
Local clock offset: -6.786 ms
Remote clock offset: 3.41 ms

# Below is generated by plot.py at 2019-02-05 15:10:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.60 Mbit/s
95th percentile per-packet one-way delay: 107.898 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 76.60 Mbit/s
95th percentile per-packet one-way delay: 107.898 ms
Loss rate: 0.76%
```

Run 1: Report of PCC-Vivace — Data Link

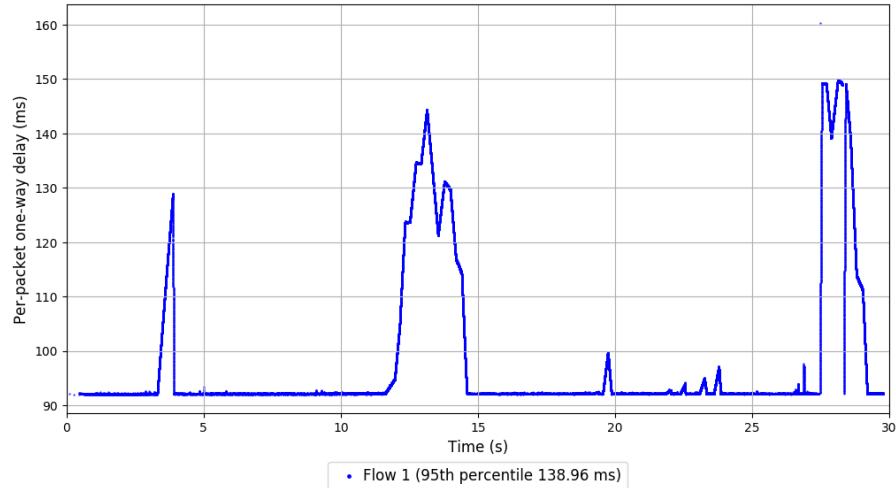
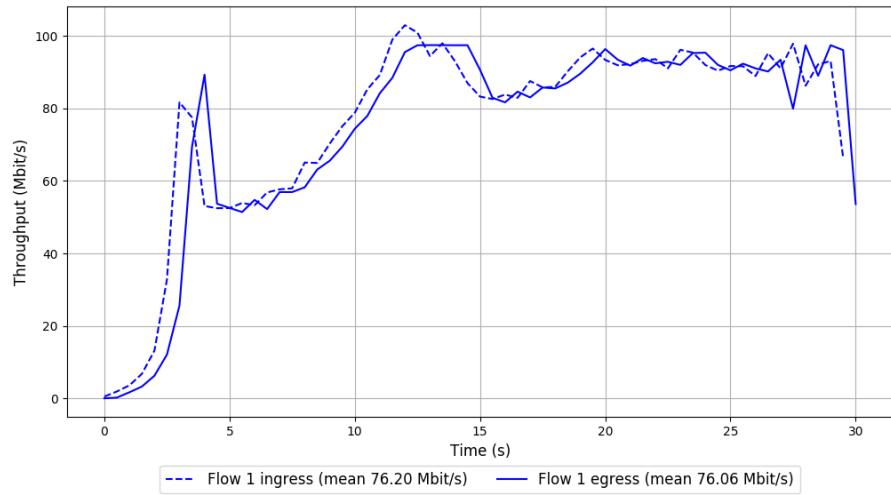


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-02-05 13:41:08
End at: 2019-02-05 13:41:38
Local clock offset: -6.122 ms
Remote clock offset: 7.504 ms

# Below is generated by plot.py at 2019-02-05 15:10:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.06 Mbit/s
95th percentile per-packet one-way delay: 138.963 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 76.06 Mbit/s
95th percentile per-packet one-way delay: 138.963 ms
Loss rate: 0.78%
```

Run 2: Report of PCC-Vivace — Data Link

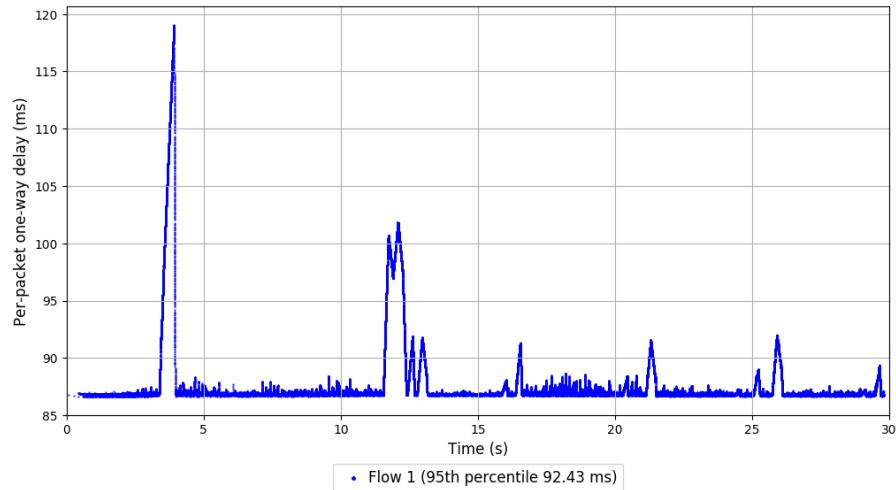
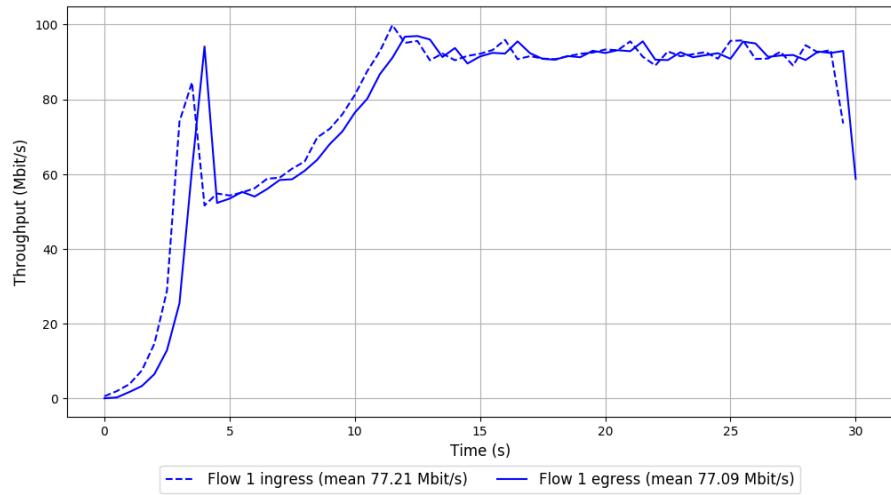


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-02-05 14:06:07
End at: 2019-02-05 14:06:37
Local clock offset: -0.37 ms
Remote clock offset: 5.022 ms

# Below is generated by plot.py at 2019-02-05 15:10:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.09 Mbit/s
95th percentile per-packet one-way delay: 92.429 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 77.09 Mbit/s
95th percentile per-packet one-way delay: 92.429 ms
Loss rate: 0.72%
```

Run 3: Report of PCC-Vivace — Data Link

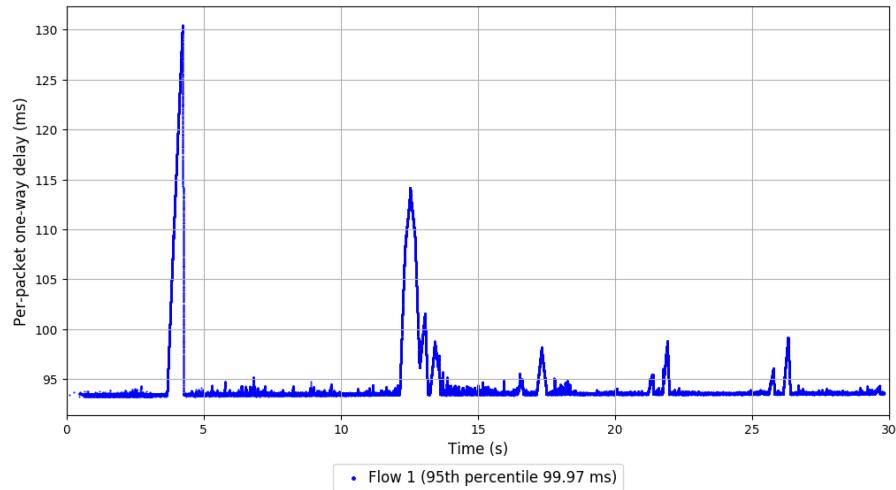
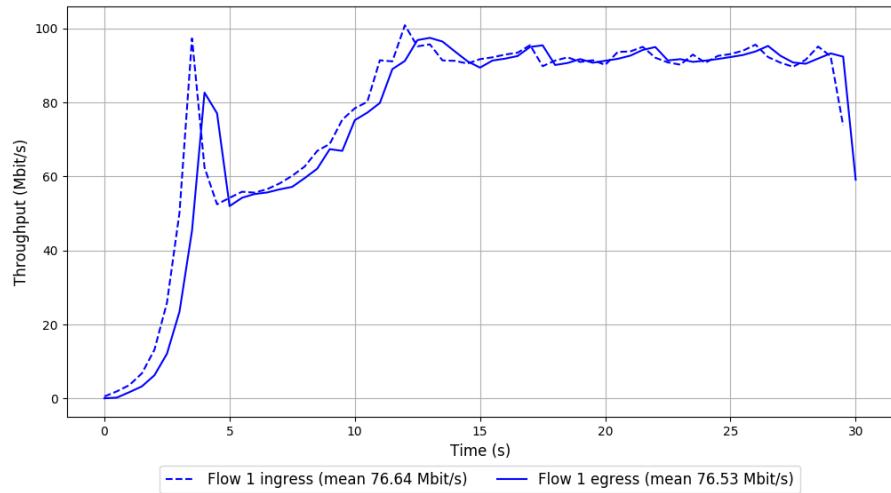


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-02-05 14:31:04
End at: 2019-02-05 14:31:34
Local clock offset: -5.607 ms
Remote clock offset: 4.822 ms

# Below is generated by plot.py at 2019-02-05 15:10:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.53 Mbit/s
95th percentile per-packet one-way delay: 99.970 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 76.53 Mbit/s
95th percentile per-packet one-way delay: 99.970 ms
Loss rate: 0.74%
```

Run 4: Report of PCC-Vivace — Data Link

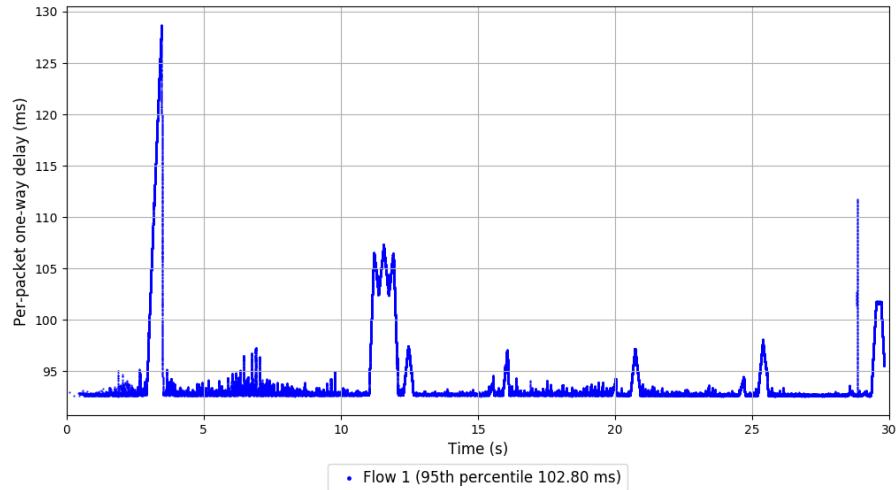
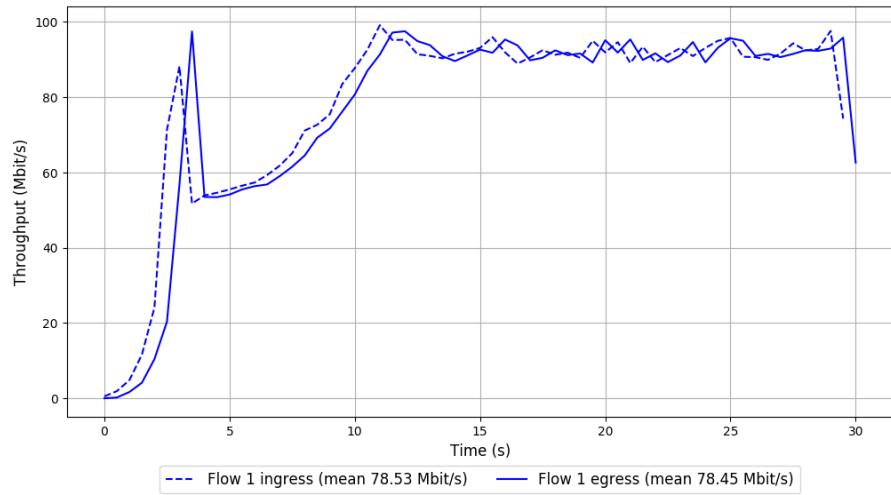


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-02-05 14:56:01
End at: 2019-02-05 14:56:31
Local clock offset: -2.978 ms
Remote clock offset: 2.177 ms

# Below is generated by plot.py at 2019-02-05 15:10:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.45 Mbit/s
95th percentile per-packet one-way delay: 102.804 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 78.45 Mbit/s
95th percentile per-packet one-way delay: 102.804 ms
Loss rate: 0.69%
```

Run 5: Report of PCC-Vivace — Data Link

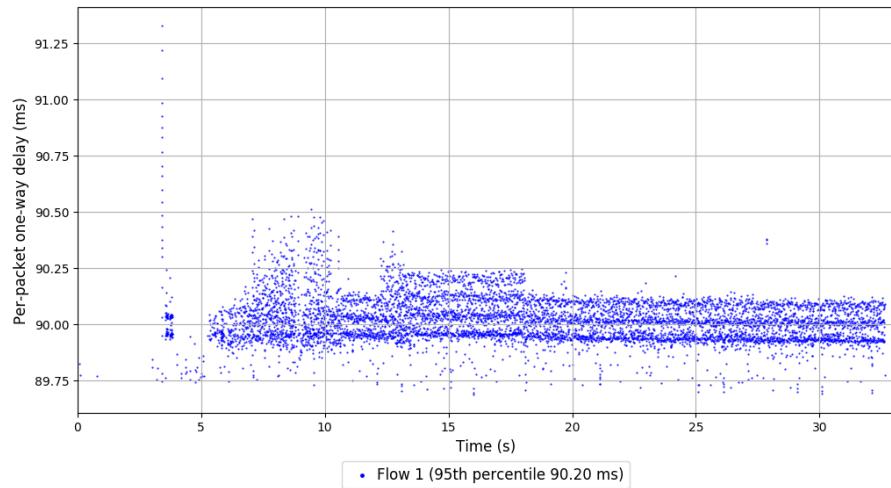
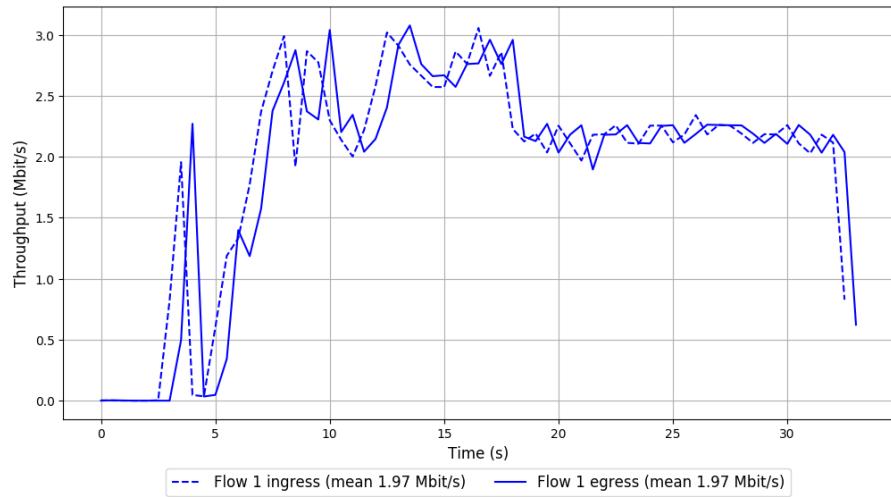


Run 1: Statistics of WebRTC media

```
Start at: 2019-02-05 12:52:26
End at: 2019-02-05 12:52:56
Local clock offset: -6.656 ms
Remote clock offset: 3.532 ms

# Below is generated by plot.py at 2019-02-05 15:10:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 90.199 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 90.199 ms
Loss rate: 0.51%
```

Run 1: Report of WebRTC media — Data Link

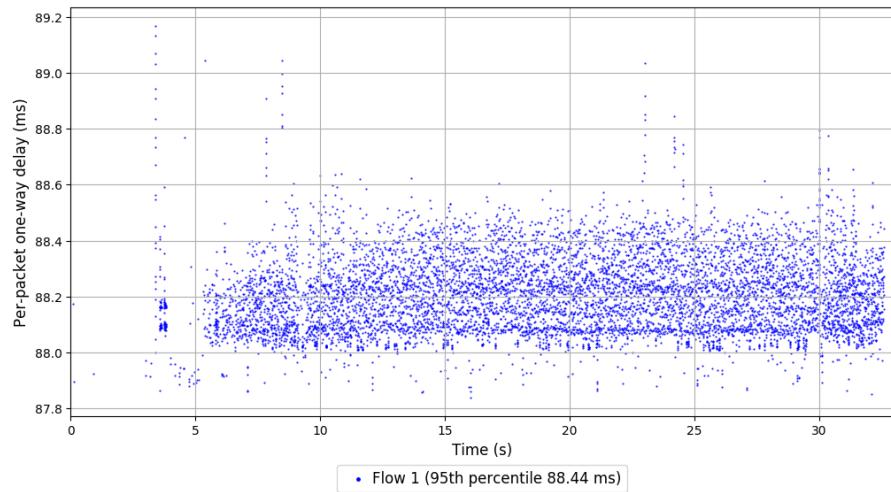
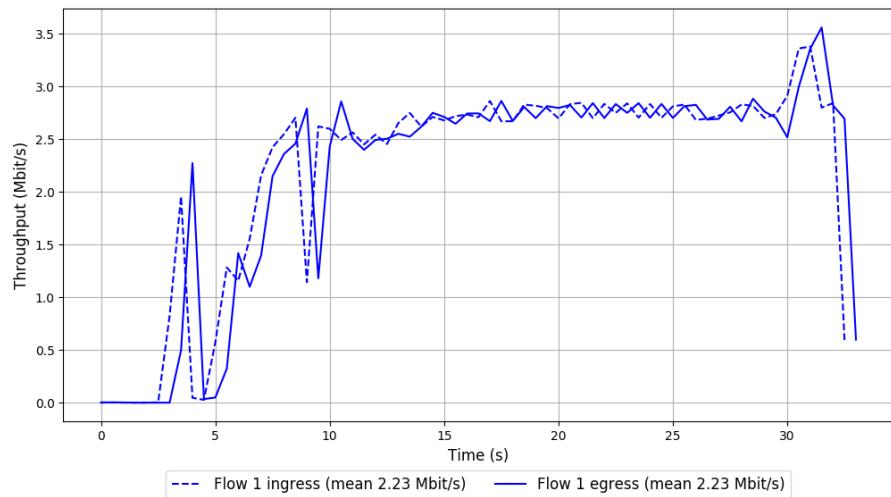


Run 2: Statistics of WebRTC media

```
Start at: 2019-02-05 13:17:24
End at: 2019-02-05 13:17:54
Local clock offset: -6.642 ms
Remote clock offset: 8.413 ms

# Below is generated by plot.py at 2019-02-05 15:10:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 88.443 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 88.443 ms
Loss rate: 0.41%
```

Run 2: Report of WebRTC media — Data Link

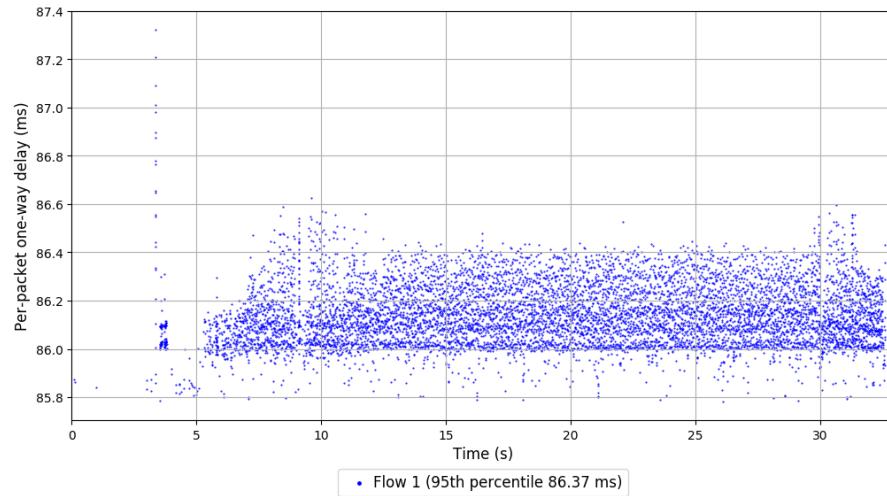
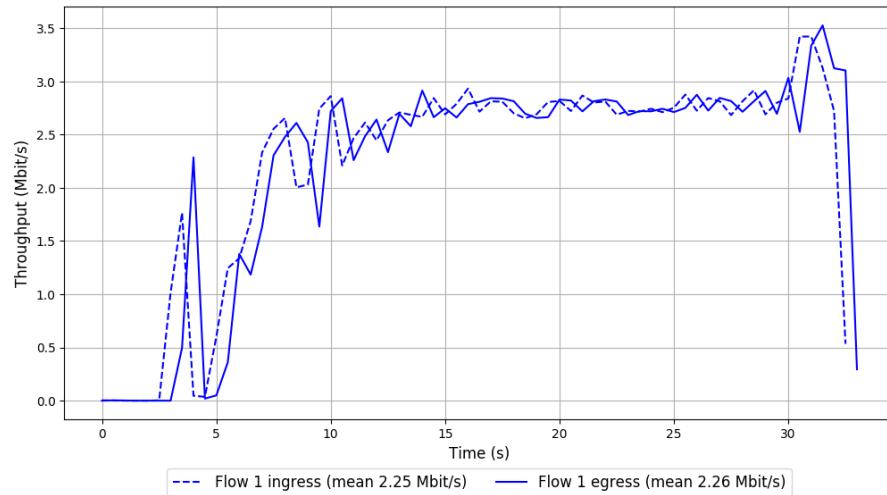


Run 3: Statistics of WebRTC media

```
Start at: 2019-02-05 13:42:21
End at: 2019-02-05 13:42:51
Local clock offset: -6.115 ms
Remote clock offset: 7.522 ms

# Below is generated by plot.py at 2019-02-05 15:10:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 86.368 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 86.368 ms
Loss rate: 0.25%
```

Run 3: Report of WebRTC media — Data Link

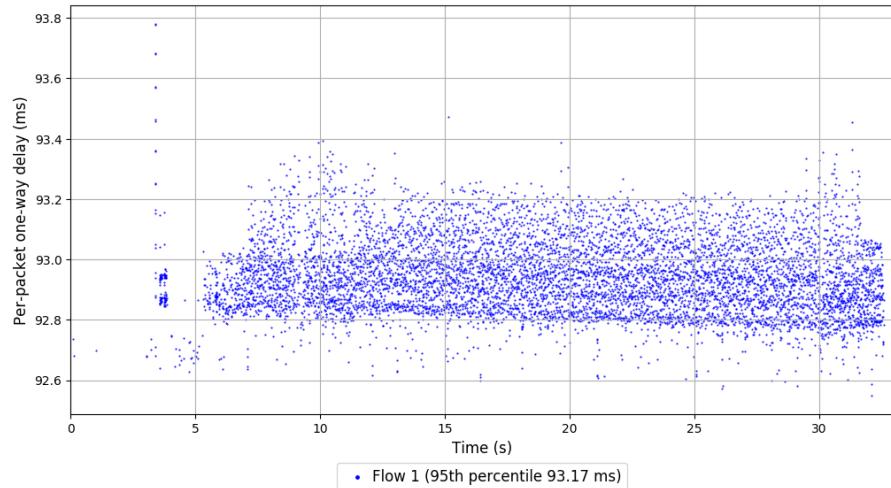
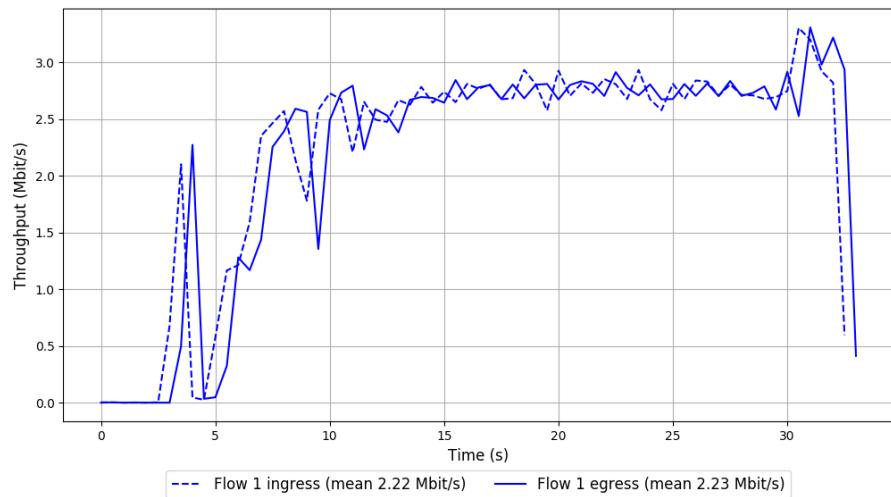


Run 4: Statistics of WebRTC media

```
Start at: 2019-02-05 14:07:20
End at: 2019-02-05 14:07:50
Local clock offset: -0.243 ms
Remote clock offset: 1.236 ms

# Below is generated by plot.py at 2019-02-05 15:10:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 93.167 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 93.167 ms
Loss rate: 0.39%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-02-05 14:32:17
End at: 2019-02-05 14:32:47
Local clock offset: -5.804 ms
Remote clock offset: 7.381 ms

# Below is generated by plot.py at 2019-02-05 15:10:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 87.298 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 87.298 ms
Loss rate: 0.48%
```

Run 5: Report of WebRTC media — Data Link

