

Pantheon Report

Generated at 2019-01-21 23:20:35 (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:

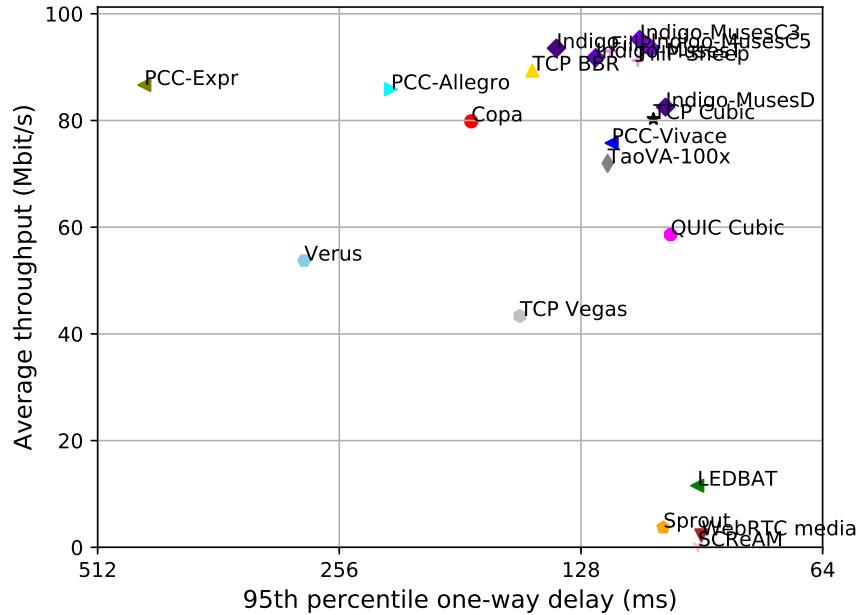
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

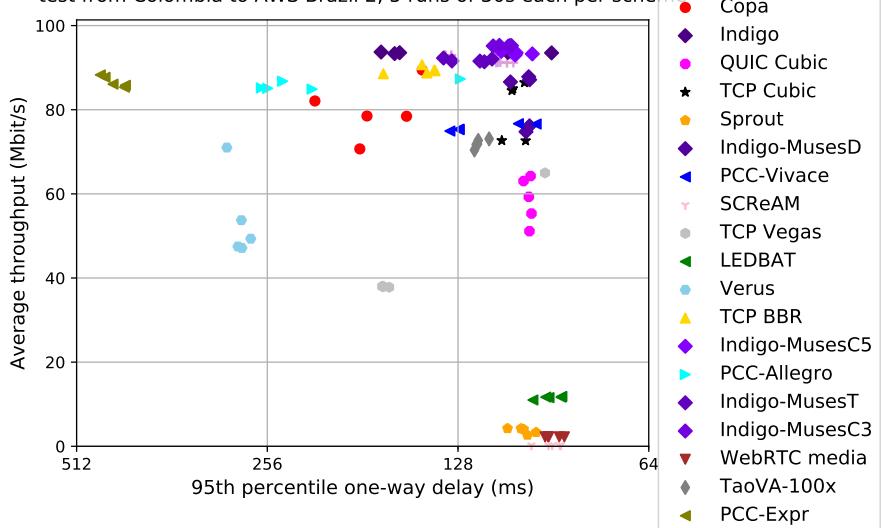
```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d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

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



test from Colombia to AWS Brazil 2, 5 runs of 30s each per scheme



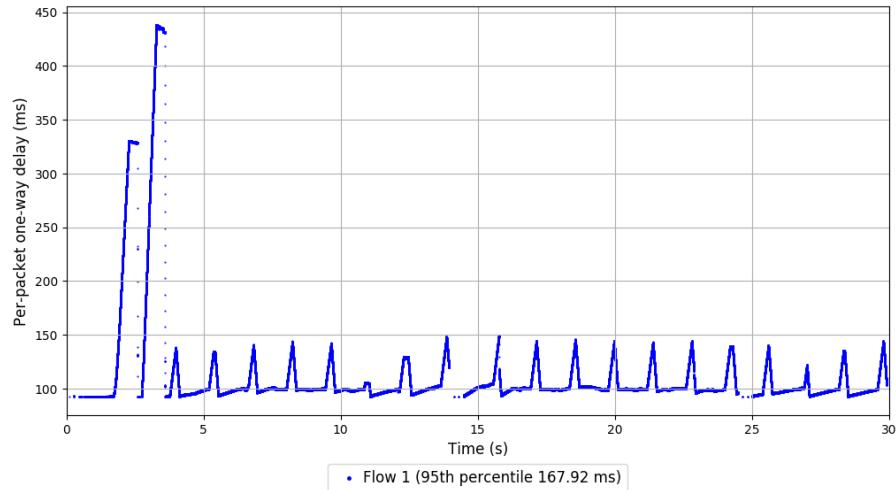
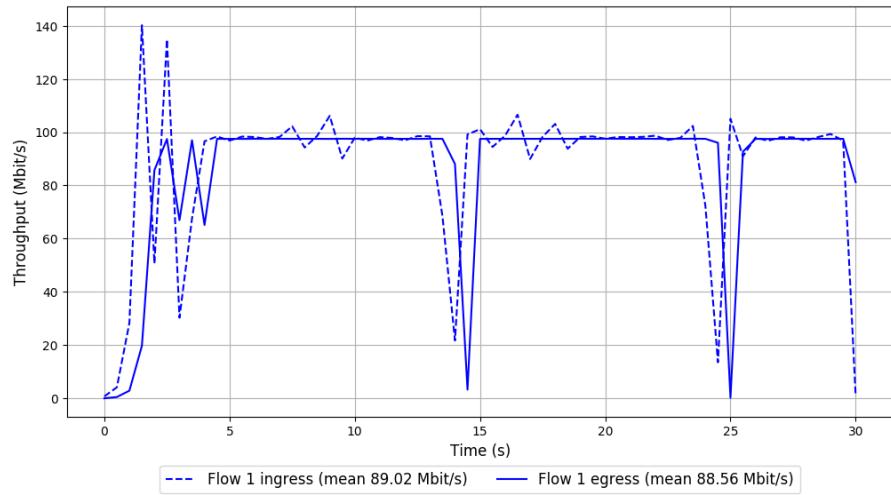
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	89.34	147.17	1.15
Copa	5	79.84	175.33	0.79
TCP Cubic	5	80.27	103.99	0.62
FillP	5	93.01	117.55	0.65
FillP-Sheep	5	91.23	108.75	0.64
Indigo	5	93.55	137.33	1.56
Indigo-MusesC3	5	95.20	108.16	6.76
Indigo-MusesC5	5	93.55	104.83	3.69
Indigo-MusesD	5	82.50	100.43	0.75
Indigo-MusesT	5	91.78	122.70	7.17
LEDBAT	5	11.56	91.68	1.17
PCC-Allegro	5	85.85	220.74	0.86
PCC-Expr	5	86.65	447.81	1.33
QUIC Cubic	5	58.61	98.99	0.91
SCReAM	5	0.22	91.51	0.59
Sprout	5	3.70	101.09	0.75
TaoVA-100x	5	71.96	118.58	0.60
TCP Vegas	5	43.35	152.49	0.68
Verus	5	53.74	283.08	0.75
PCC-Vivace	5	75.77	117.22	0.77
WebRTC media	5	2.24	90.64	0.34

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-21 21:09:51
End at: 2019-01-21 21:10:21
Local clock offset: -6.854 ms
Remote clock offset: 7.914 ms

# Below is generated by plot.py at 2019-01-21 23:09:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.56 Mbit/s
95th percentile per-packet one-way delay: 167.916 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 88.56 Mbit/s
95th percentile per-packet one-way delay: 167.916 ms
Loss rate: 1.11%
```

Run 1: Report of TCP BBR — Data Link

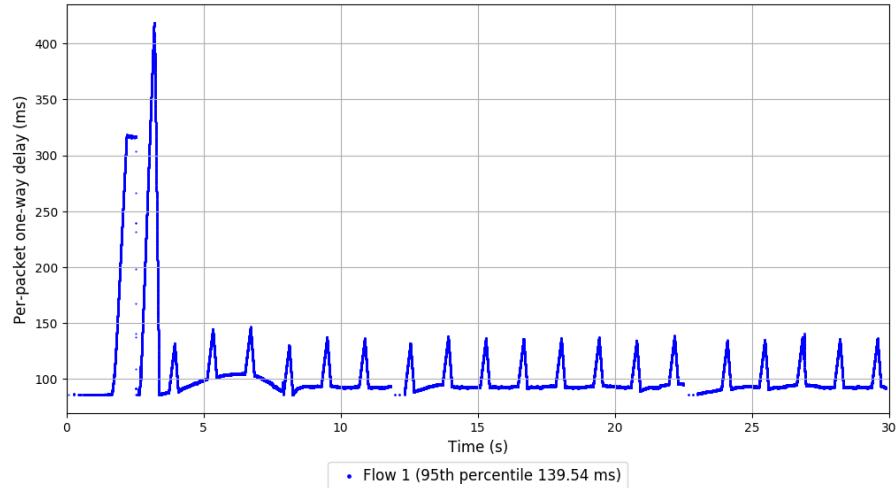
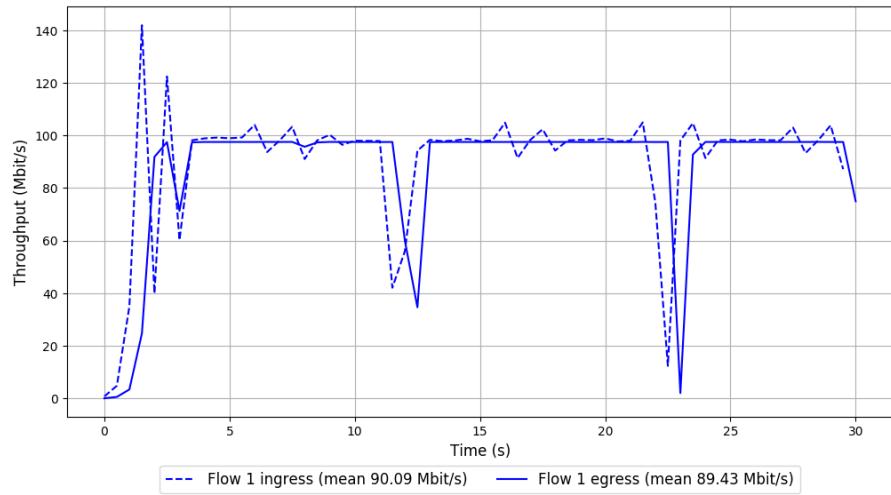


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-21 21:34:51
End at: 2019-01-21 21:35:21
Local clock offset: -6.571 ms
Remote clock offset: 7.904 ms

# Below is generated by plot.py at 2019-01-21 23:09:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.43 Mbit/s
95th percentile per-packet one-way delay: 139.543 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 89.43 Mbit/s
95th percentile per-packet one-way delay: 139.543 ms
Loss rate: 1.31%
```

Run 2: Report of TCP BBR — Data Link

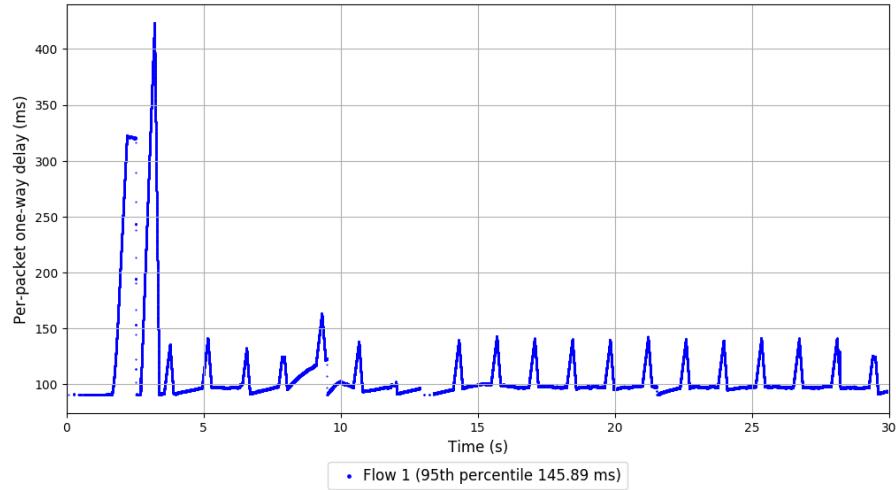
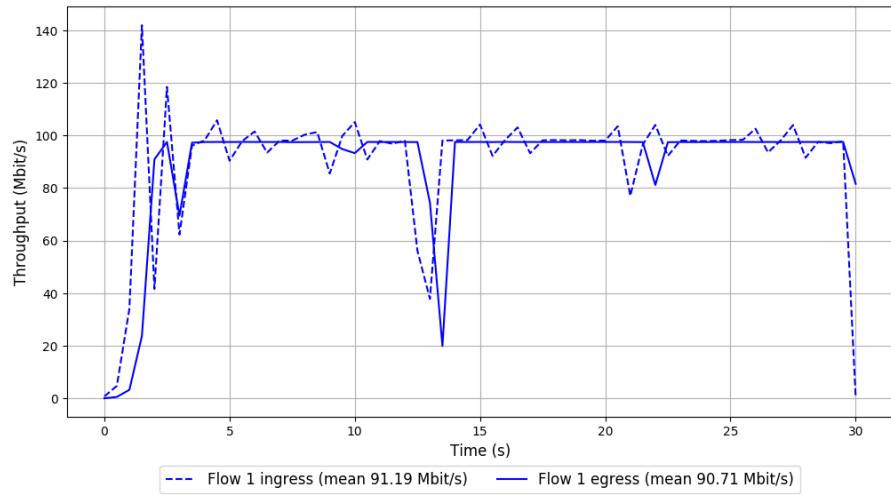


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-21 21:59:50
End at: 2019-01-21 22:00:20
Local clock offset: -7.193 ms
Remote clock offset: 1.896 ms

# Below is generated by plot.py at 2019-01-21 23:09:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.71 Mbit/s
95th percentile per-packet one-way delay: 145.891 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 90.71 Mbit/s
95th percentile per-packet one-way delay: 145.891 ms
Loss rate: 1.10%
```

Run 3: Report of TCP BBR — Data Link

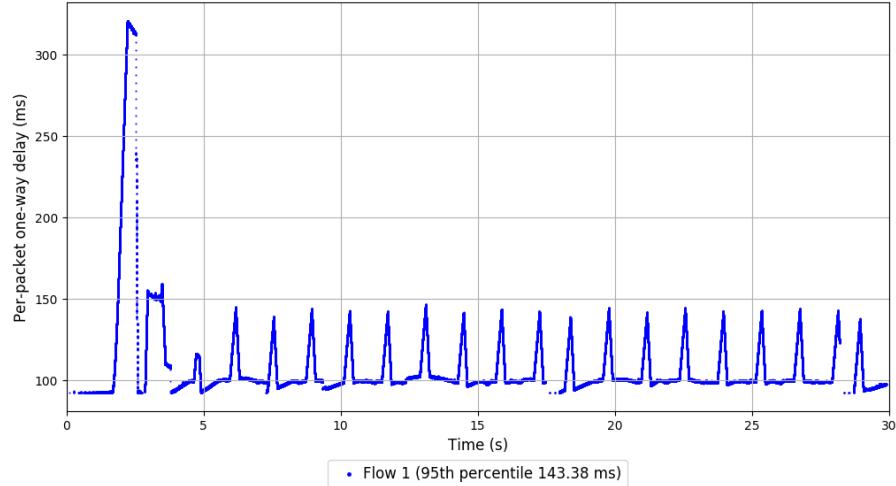
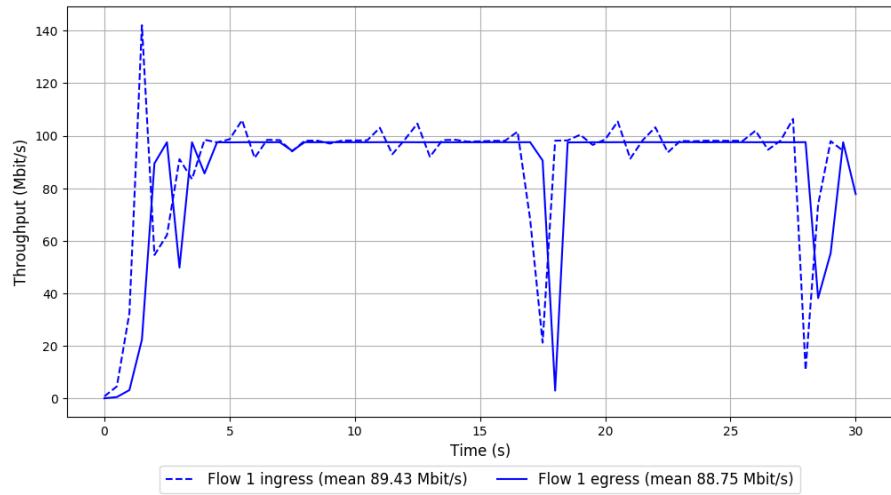


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-21 22:24:49
End at: 2019-01-21 22:25:19
Local clock offset: -3.041 ms
Remote clock offset: 1.378 ms

# Below is generated by plot.py at 2019-01-21 23:09:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 143.376 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 143.376 ms
Loss rate: 1.33%
```

Run 4: Report of TCP BBR — Data Link

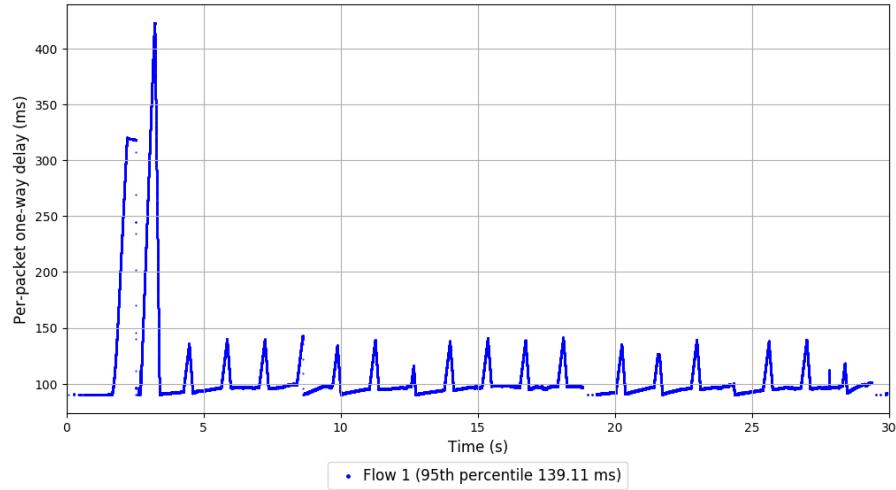
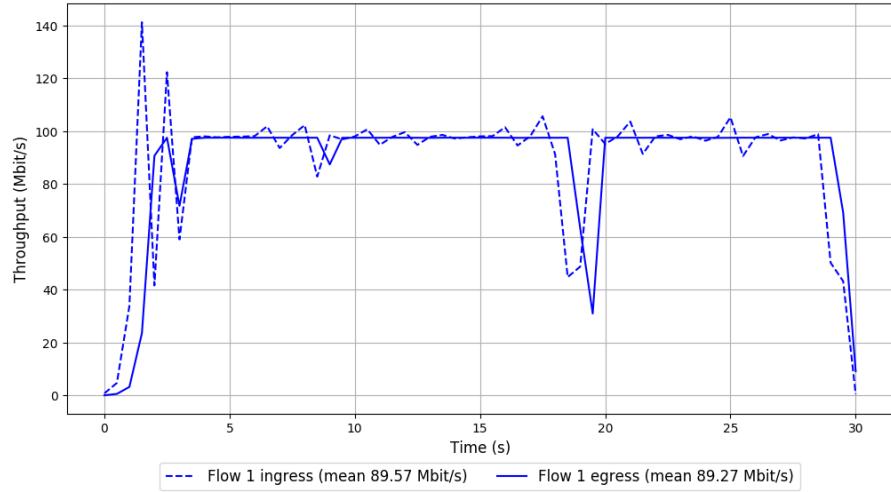


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-21 22:49:47
End at: 2019-01-21 22:50:17
Local clock offset: -1.129 ms
Remote clock offset: 3.304 ms

# Below is generated by plot.py at 2019-01-21 23:09:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 139.109 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 139.109 ms
Loss rate: 0.92%
```

Run 5: Report of TCP BBR — Data Link

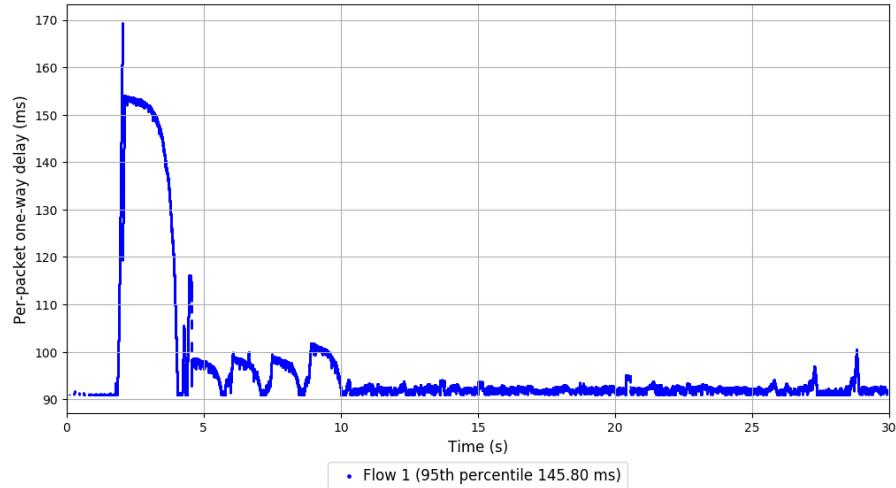
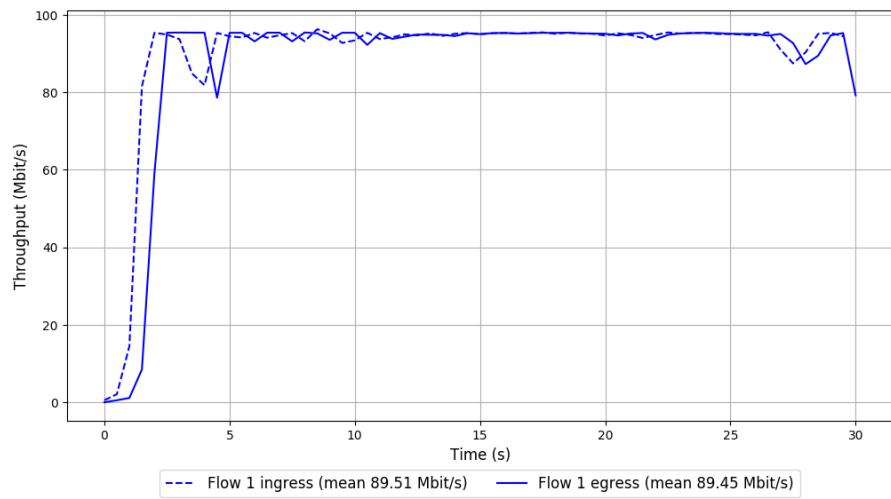


Run 1: Statistics of Copa

```
Start at: 2019-01-21 21:03:48
End at: 2019-01-21 21:04:18
Local clock offset: -6.793 ms
Remote clock offset: 3.59 ms

# Below is generated by plot.py at 2019-01-21 23:10:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.45 Mbit/s
95th percentile per-packet one-way delay: 145.802 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 89.45 Mbit/s
95th percentile per-packet one-way delay: 145.802 ms
Loss rate: 0.64%
```

Run 1: Report of Copa — Data Link

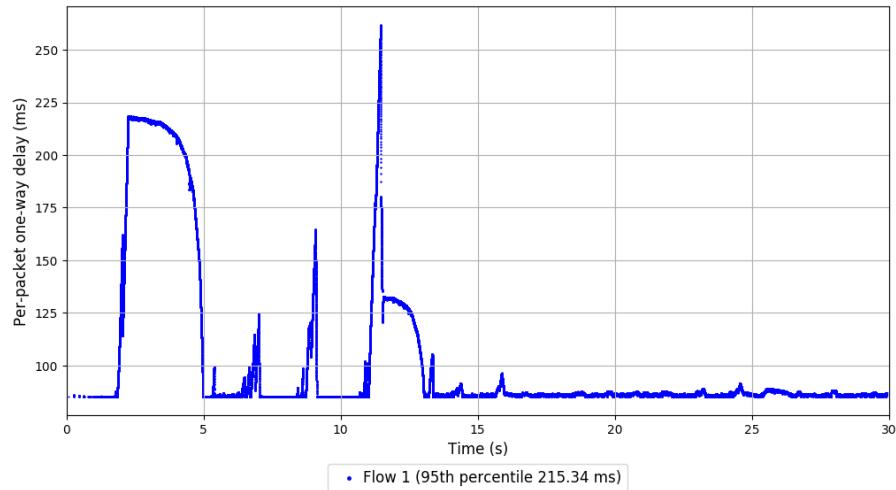
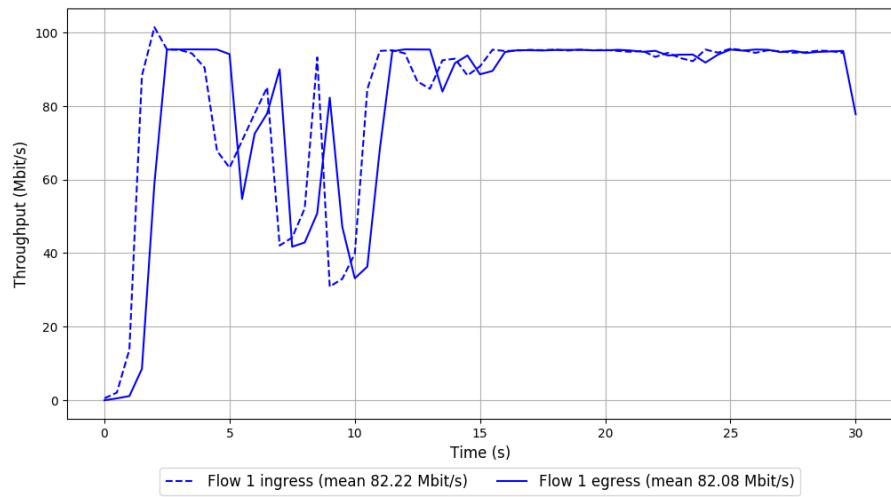


Run 2: Statistics of Copa

```
Start at: 2019-01-21 21:28:48
End at: 2019-01-21 21:29:18
Local clock offset: -6.561 ms
Remote clock offset: 8.838 ms

# Below is generated by plot.py at 2019-01-21 23:10:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.08 Mbit/s
95th percentile per-packet one-way delay: 215.342 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 82.08 Mbit/s
95th percentile per-packet one-way delay: 215.342 ms
Loss rate: 0.75%
```

Run 2: Report of Copa — Data Link

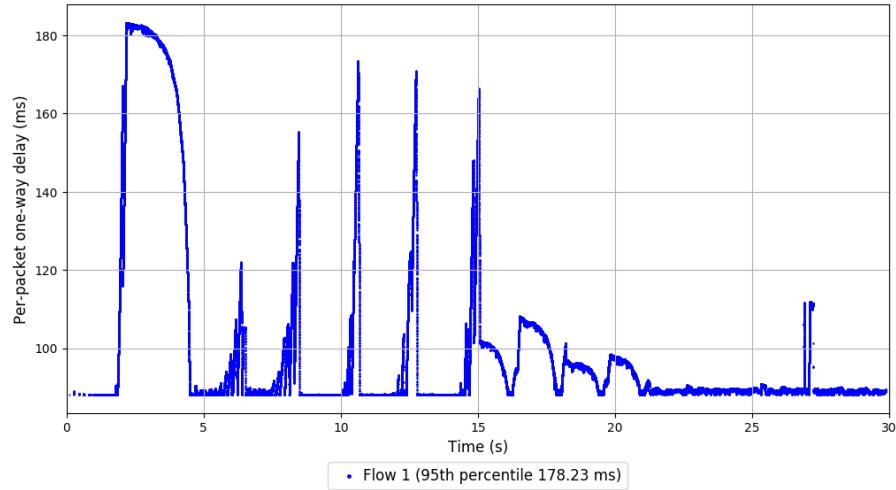
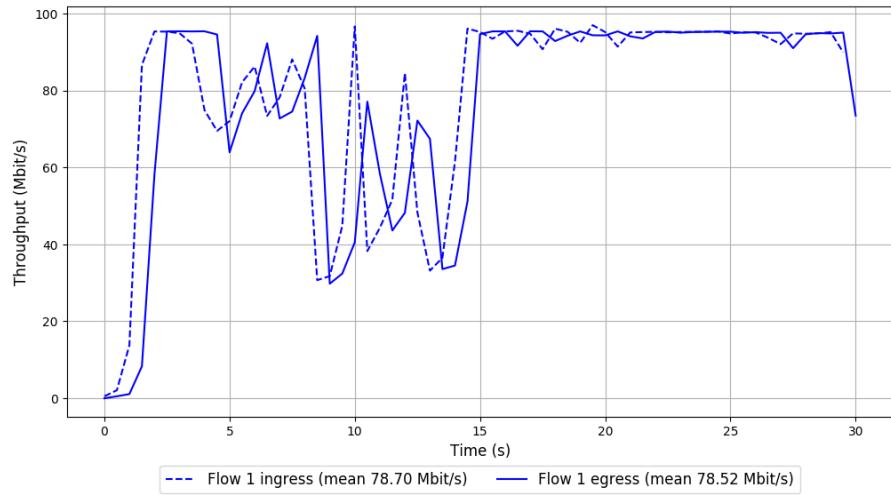


Run 3: Statistics of Copa

```
Start at: 2019-01-21 21:53:47
End at: 2019-01-21 21:54:17
Local clock offset: -6.261 ms
Remote clock offset: 5.014 ms

# Below is generated by plot.py at 2019-01-21 23:10:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.52 Mbit/s
95th percentile per-packet one-way delay: 178.229 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 78.52 Mbit/s
95th percentile per-packet one-way delay: 178.229 ms
Loss rate: 0.81%
```

Run 3: Report of Copa — Data Link

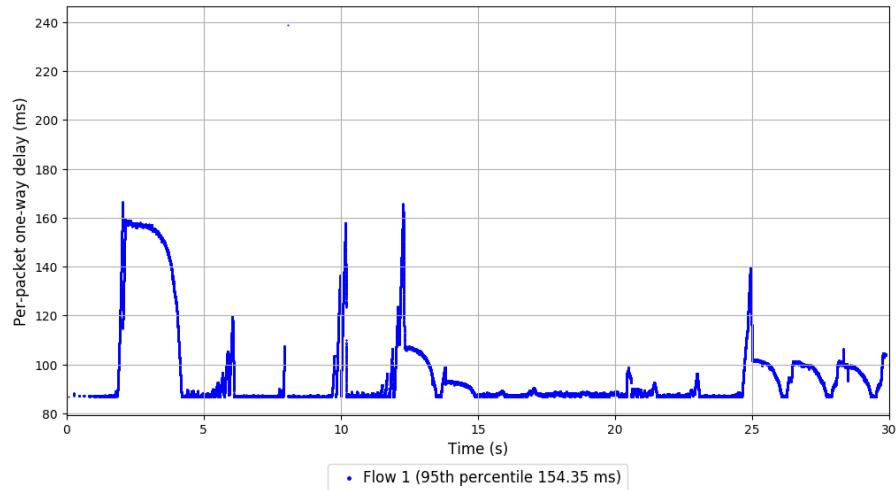
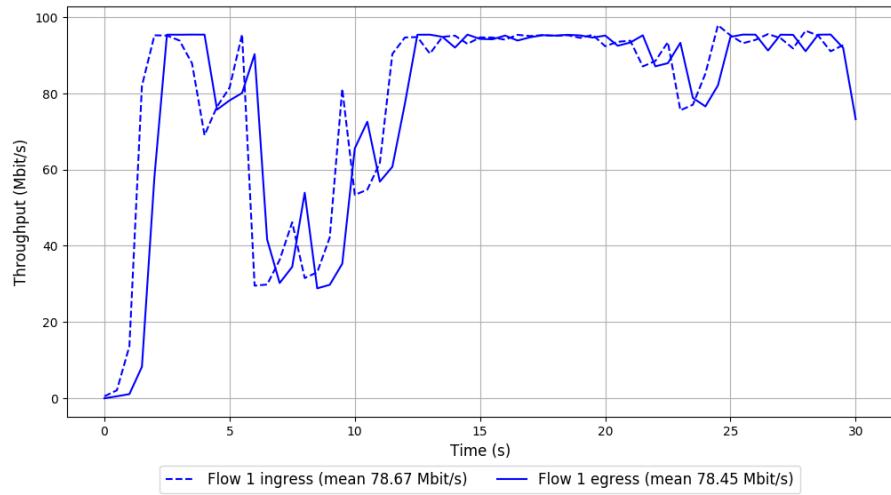


Run 4: Statistics of Copa

```
Start at: 2019-01-21 22:18:47
End at: 2019-01-21 22:19:17
Local clock offset: -6.085 ms
Remote clock offset: 6.03 ms

# Below is generated by plot.py at 2019-01-21 23:11:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.45 Mbit/s
95th percentile per-packet one-way delay: 154.349 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 78.45 Mbit/s
95th percentile per-packet one-way delay: 154.349 ms
Loss rate: 0.86%
```

Run 4: Report of Copa — Data Link

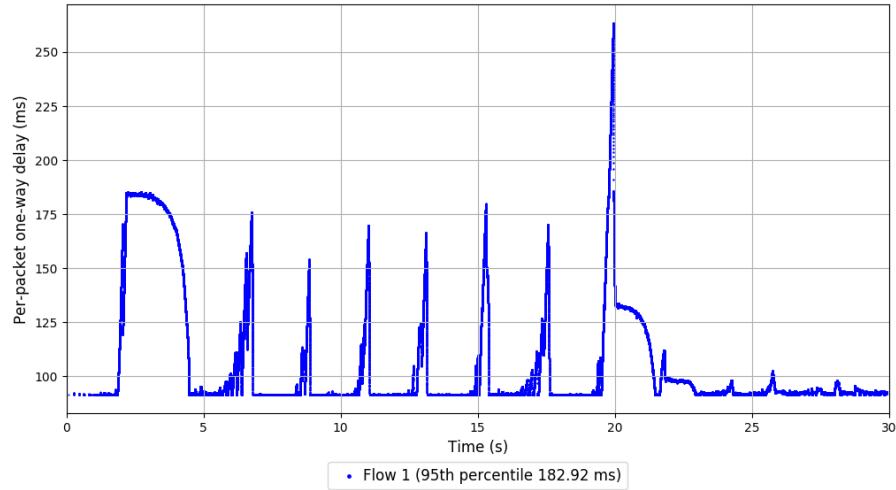
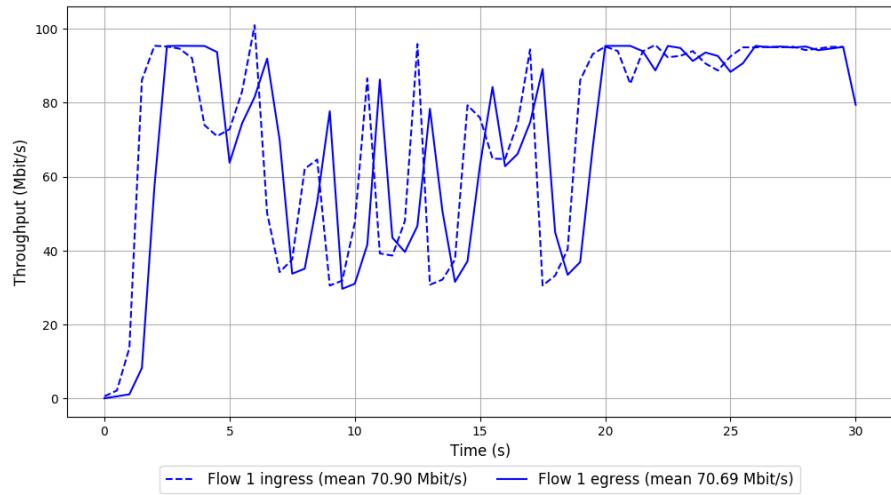


Run 5: Statistics of Copa

```
Start at: 2019-01-21 22:43:46
End at: 2019-01-21 22:44:16
Local clock offset: -0.926 ms
Remote clock offset: 2.005 ms

# Below is generated by plot.py at 2019-01-21 23:11:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.69 Mbit/s
95th percentile per-packet one-way delay: 182.923 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 70.69 Mbit/s
95th percentile per-packet one-way delay: 182.923 ms
Loss rate: 0.88%
```

Run 5: Report of Copa — Data Link

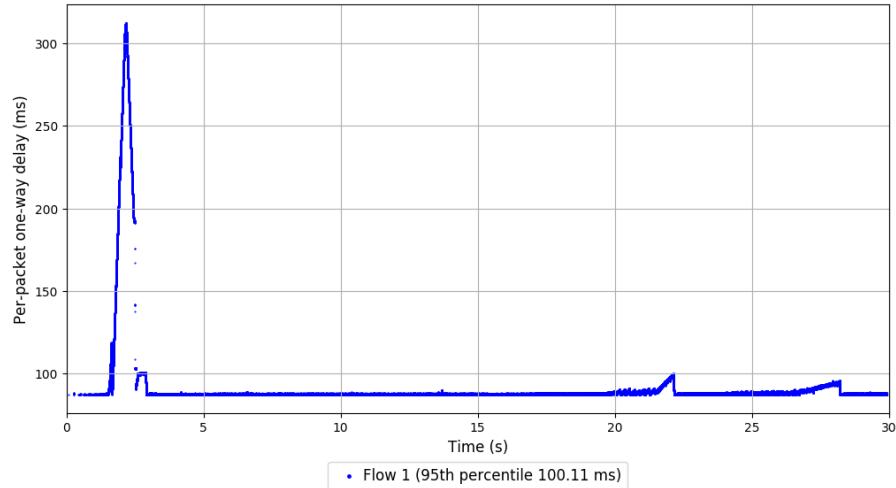
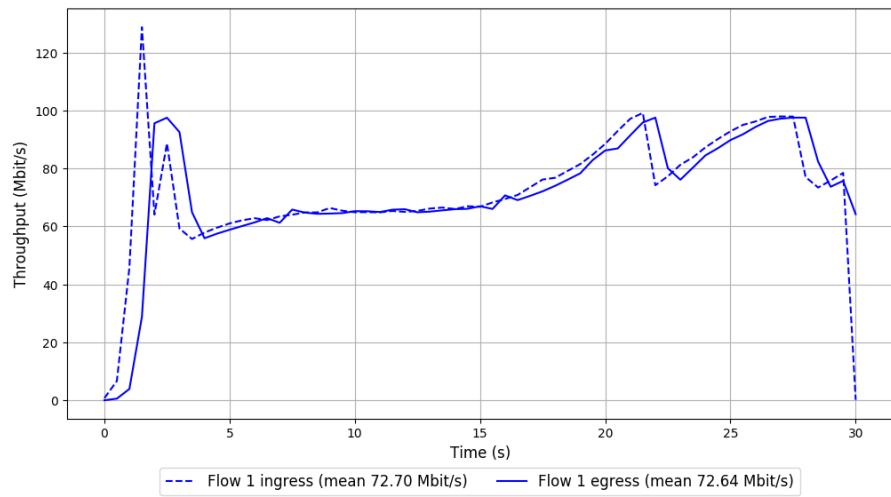


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-21 21:26:25
End at: 2019-01-21 21:26:55
Local clock offset: -5.825 ms
Remote clock offset: 8.152 ms

# Below is generated by plot.py at 2019-01-21 23:11:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.64 Mbit/s
95th percentile per-packet one-way delay: 100.114 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 72.64 Mbit/s
95th percentile per-packet one-way delay: 100.114 ms
Loss rate: 0.65%
```

Run 1: Report of TCP Cubic — Data Link

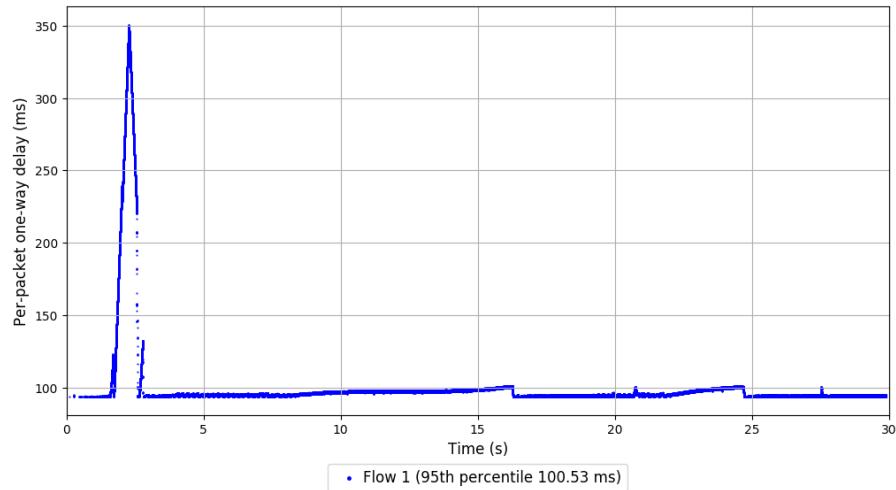
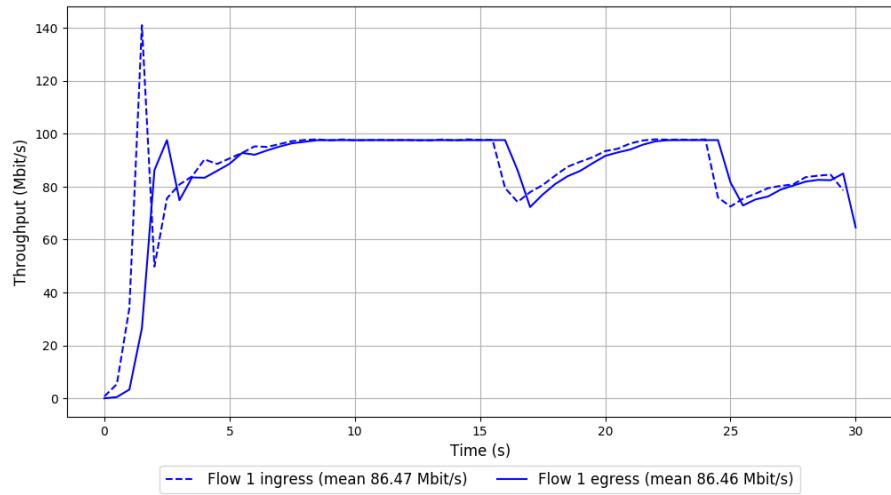


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-21 21:51:23
End at: 2019-01-21 21:51:53
Local clock offset: -6.169 ms
Remote clock offset: 5.791 ms

# Below is generated by plot.py at 2019-01-21 23:11:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.46 Mbit/s
95th percentile per-packet one-way delay: 100.531 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 86.46 Mbit/s
95th percentile per-packet one-way delay: 100.531 ms
Loss rate: 0.62%
```

Run 2: Report of TCP Cubic — Data Link

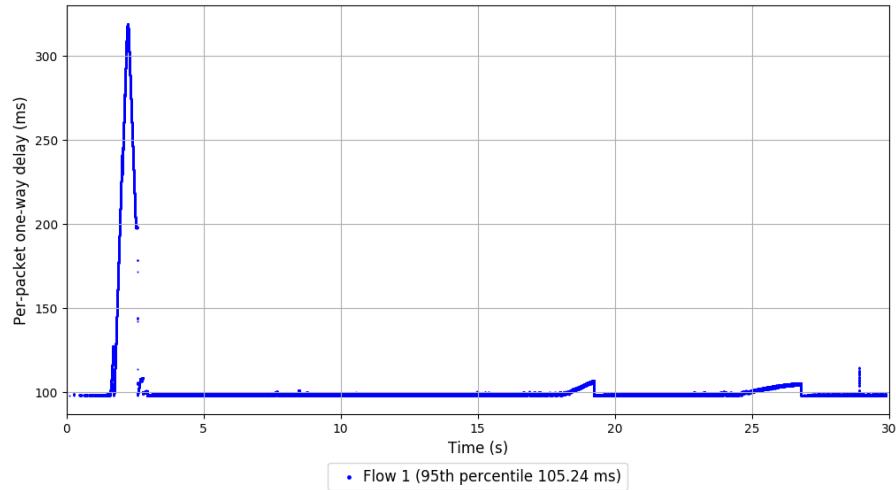
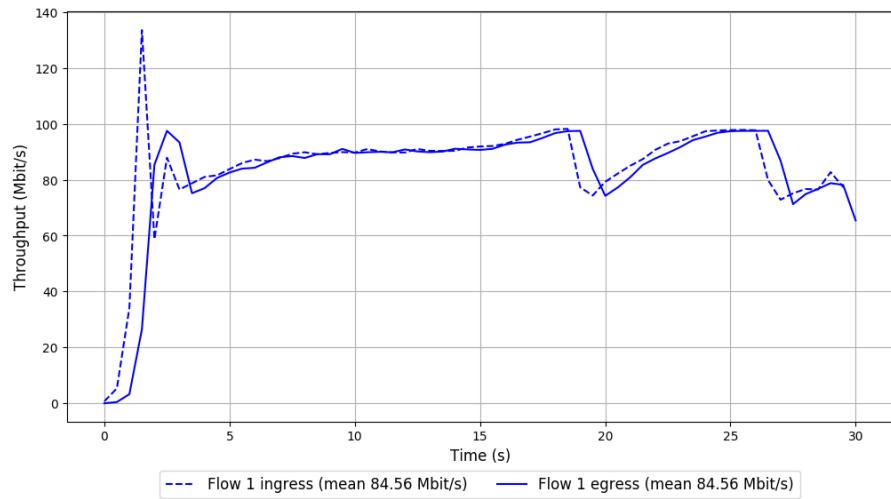


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-21 22:16:23
End at: 2019-01-21 22:16:53
Local clock offset: -6.642 ms
Remote clock offset: 1.297 ms

# Below is generated by plot.py at 2019-01-21 23:11:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.56 Mbit/s
95th percentile per-packet one-way delay: 105.238 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 84.56 Mbit/s
95th percentile per-packet one-way delay: 105.238 ms
Loss rate: 0.60%
```

Run 3: Report of TCP Cubic — Data Link

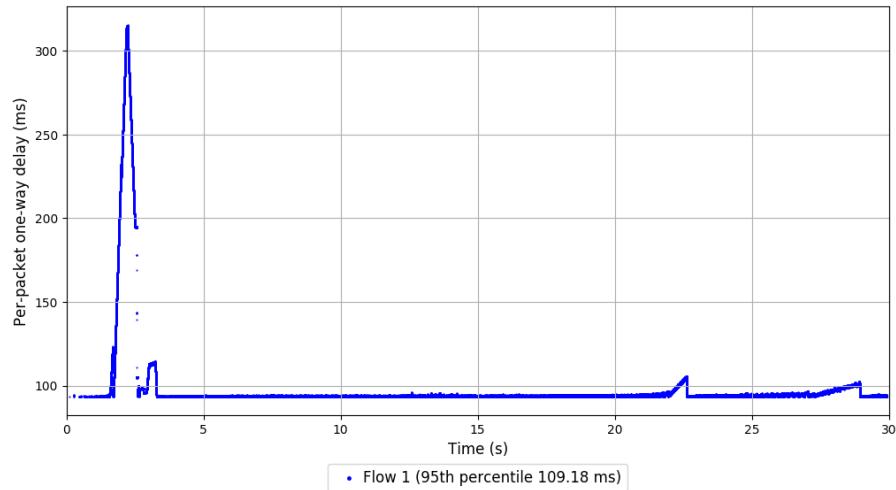
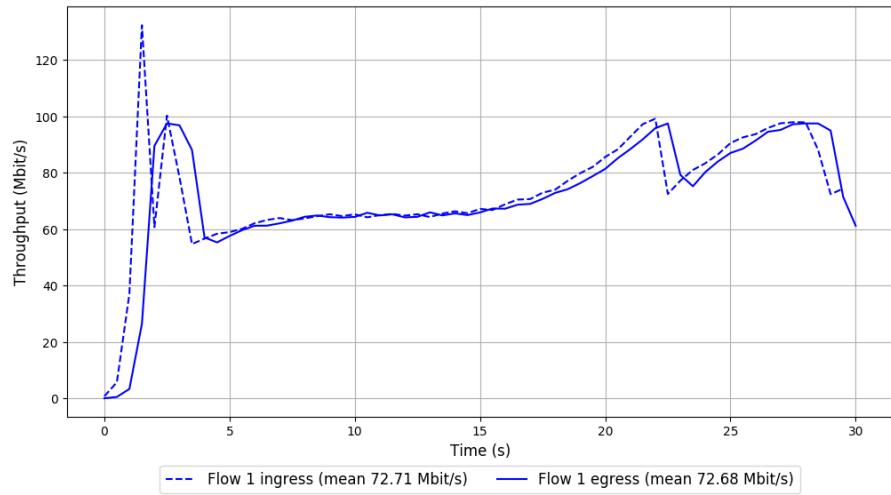


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-21 22:41:22
End at: 2019-01-21 22:41:52
Local clock offset: -0.369 ms
Remote clock offset: 6.99 ms

# Below is generated by plot.py at 2019-01-21 23:11:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.68 Mbit/s
95th percentile per-packet one-way delay: 109.177 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 72.68 Mbit/s
95th percentile per-packet one-way delay: 109.177 ms
Loss rate: 0.63%
```

Run 4: Report of TCP Cubic — Data Link

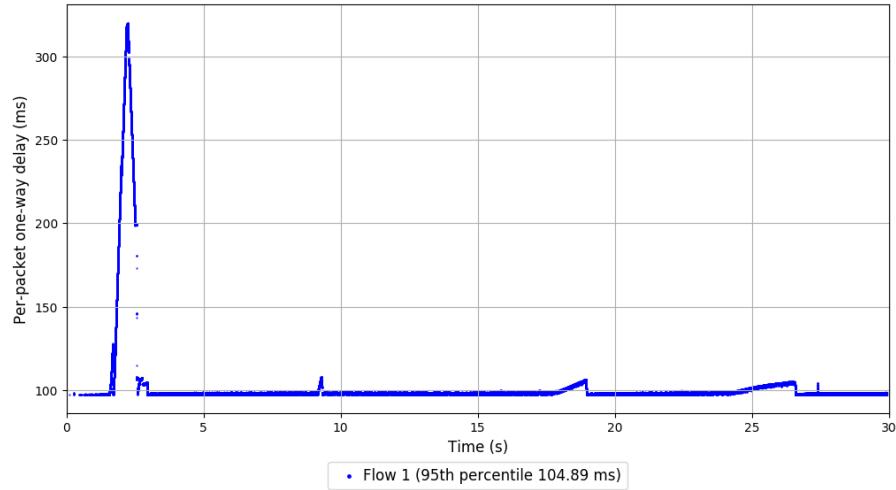
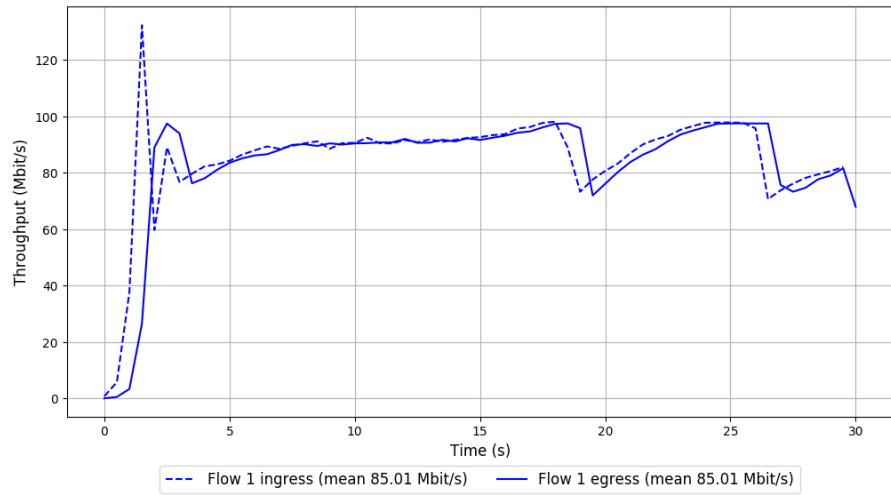


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-21 23:06:22
End at: 2019-01-21 23:06:52
Local clock offset: -0.692 ms
Remote clock offset: 3.467 ms

# Below is generated by plot.py at 2019-01-21 23:11:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.01 Mbit/s
95th percentile per-packet one-way delay: 104.885 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 85.01 Mbit/s
95th percentile per-packet one-way delay: 104.885 ms
Loss rate: 0.59%
```

Run 5: Report of TCP Cubic — Data Link

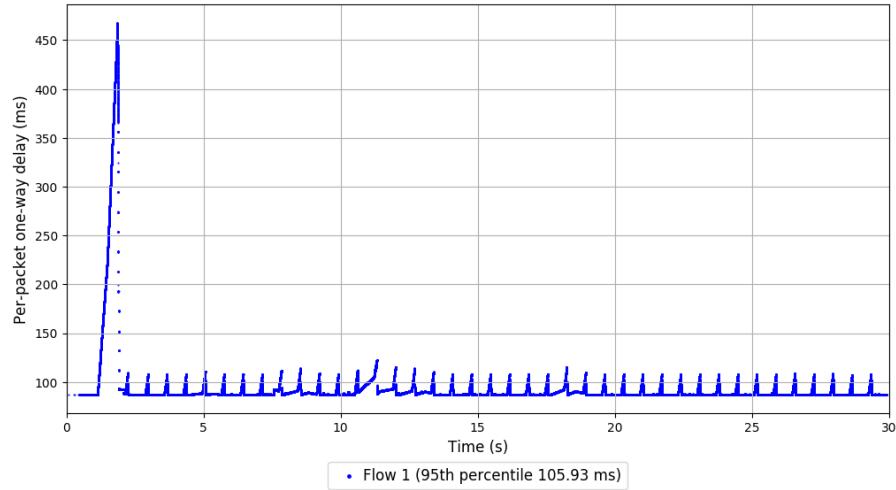
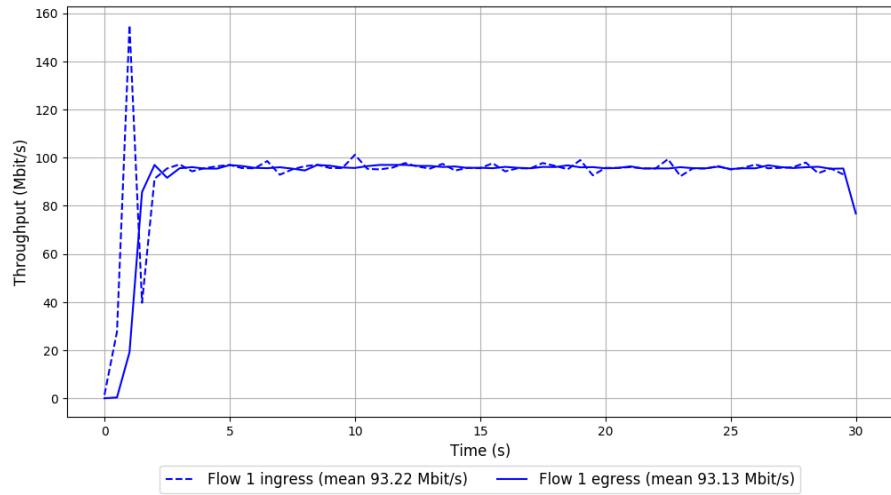


```
Run 1: Statistics of FillP
```

```
Start at: 2019-01-21 21:06:16
End at: 2019-01-21 21:06:46
Local clock offset: -6.802 ms
Remote clock offset: 7.51 ms

# Below is generated by plot.py at 2019-01-21 23:11:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.13 Mbit/s
95th percentile per-packet one-way delay: 105.927 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 93.13 Mbit/s
95th percentile per-packet one-way delay: 105.927 ms
Loss rate: 0.68%
```

Run 1: Report of FillP — Data Link

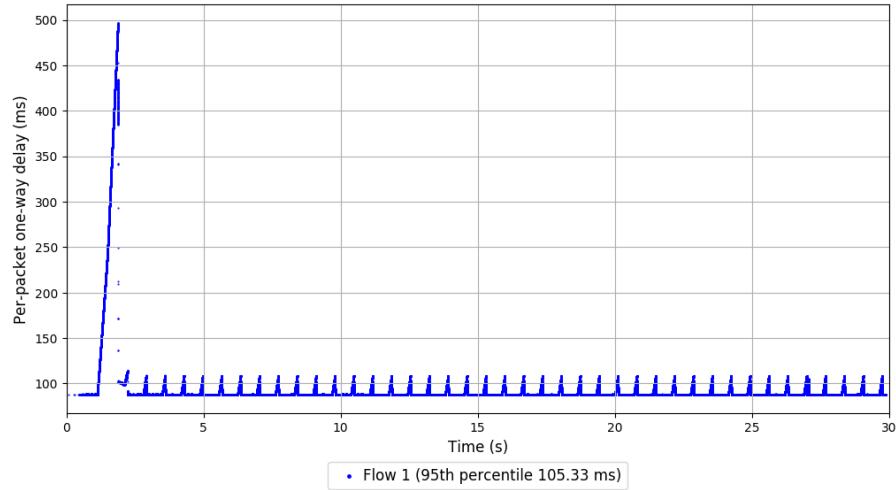
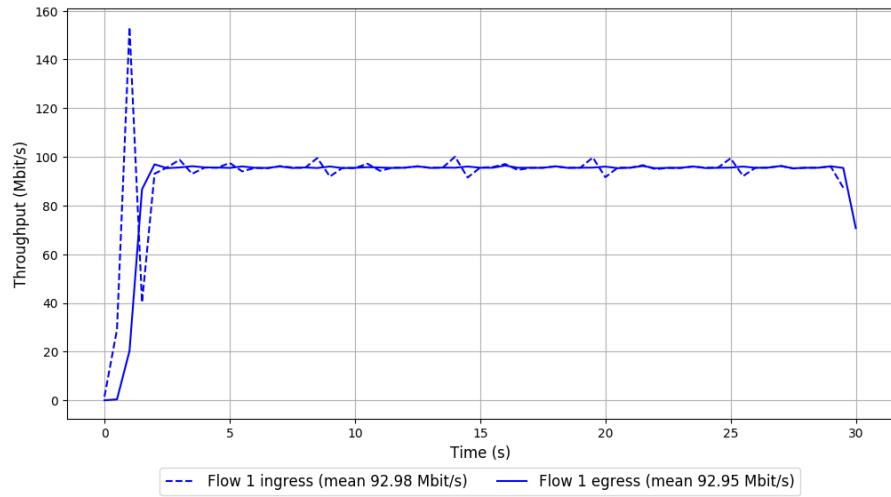


Run 2: Statistics of FillP

```
Start at: 2019-01-21 21:31:15
End at: 2019-01-21 21:31:45
Local clock offset: -5.797 ms
Remote clock offset: 7.235 ms

# Below is generated by plot.py at 2019-01-21 23:11:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 105.326 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 105.326 ms
Loss rate: 0.61%
```

Run 2: Report of FillP — Data Link

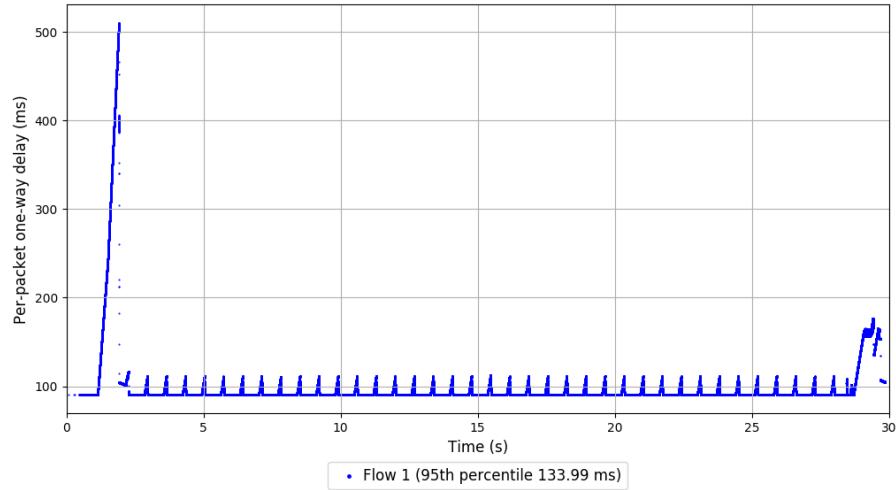
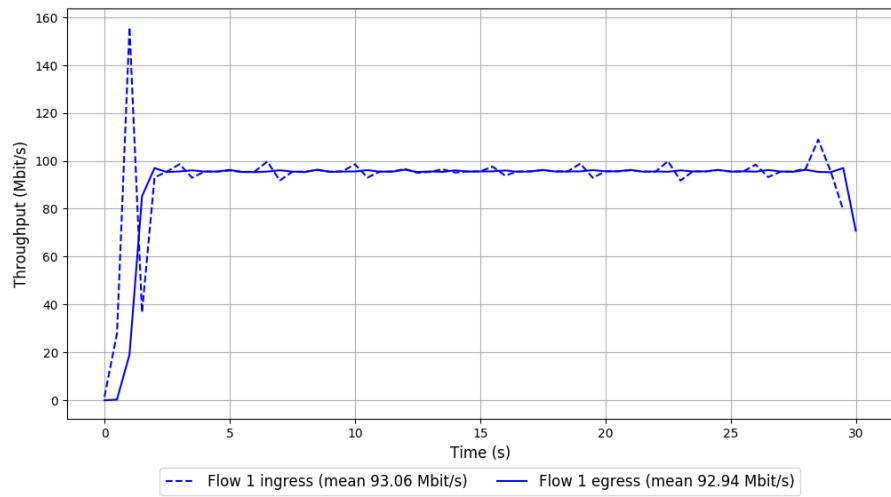


Run 3: Statistics of FillP

```
Start at: 2019-01-21 21:56:14
End at: 2019-01-21 21:56:44
Local clock offset: -7.095 ms
Remote clock offset: 1.877 ms

# Below is generated by plot.py at 2019-01-21 23:11:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 133.994 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 133.994 ms
Loss rate: 0.71%
```

Run 3: Report of FillP — Data Link

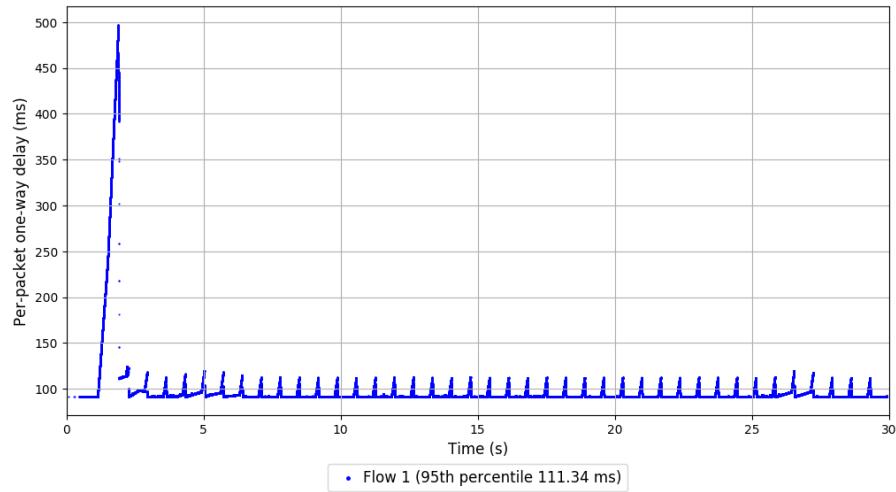
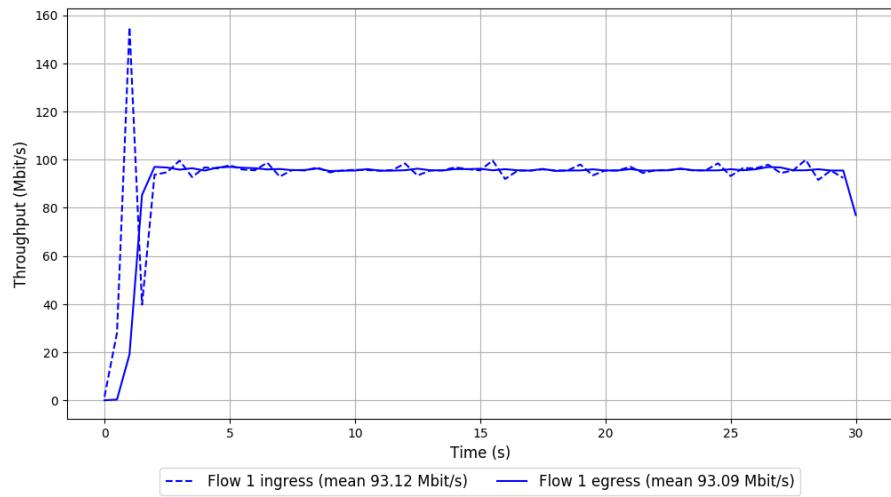


```
Run 4: Statistics of FillP
```

```
Start at: 2019-01-21 22:21:14
End at: 2019-01-21 22:21:44
Local clock offset: -4.225 ms
Remote clock offset: 2.389 ms

# Below is generated by plot.py at 2019-01-21 23:11:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.09 Mbit/s
95th percentile per-packet one-way delay: 111.337 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 93.09 Mbit/s
95th percentile per-packet one-way delay: 111.337 ms
Loss rate: 0.61%
```

Run 4: Report of FillP — Data Link

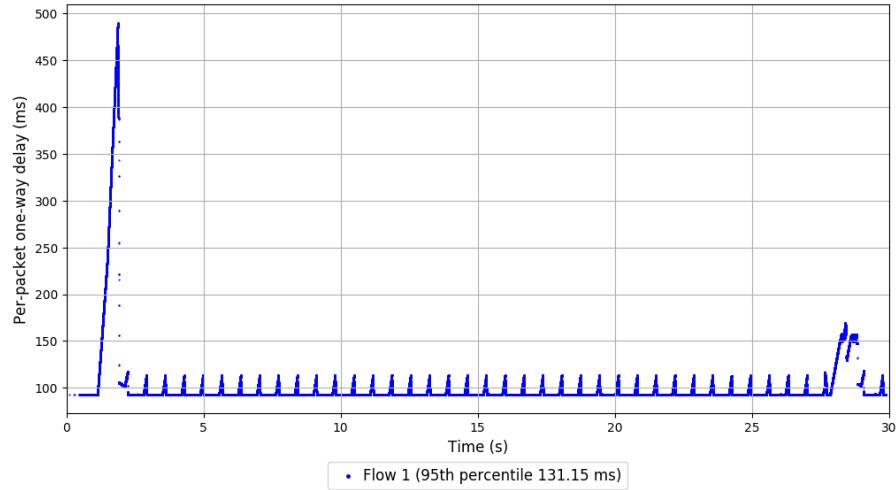
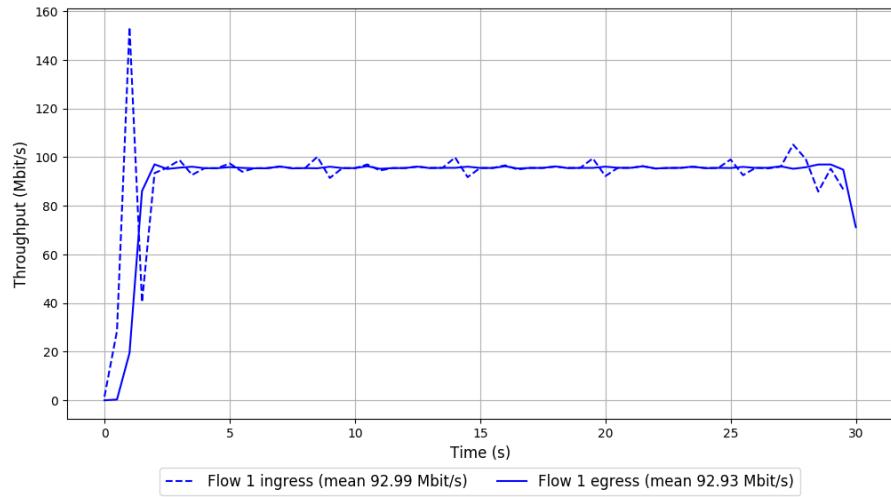


Run 5: Statistics of FillP

```
Start at: 2019-01-21 22:46:12
End at: 2019-01-21 22:46:42
Local clock offset: 0.002 ms
Remote clock offset: 2.067 ms

# Below is generated by plot.py at 2019-01-21 23:12:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 131.150 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 131.150 ms
Loss rate: 0.64%
```

Run 5: Report of FillP — Data Link

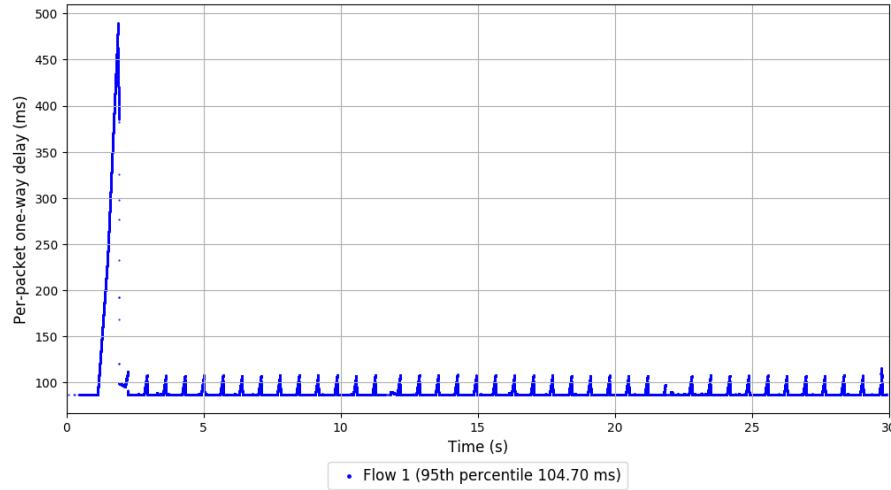
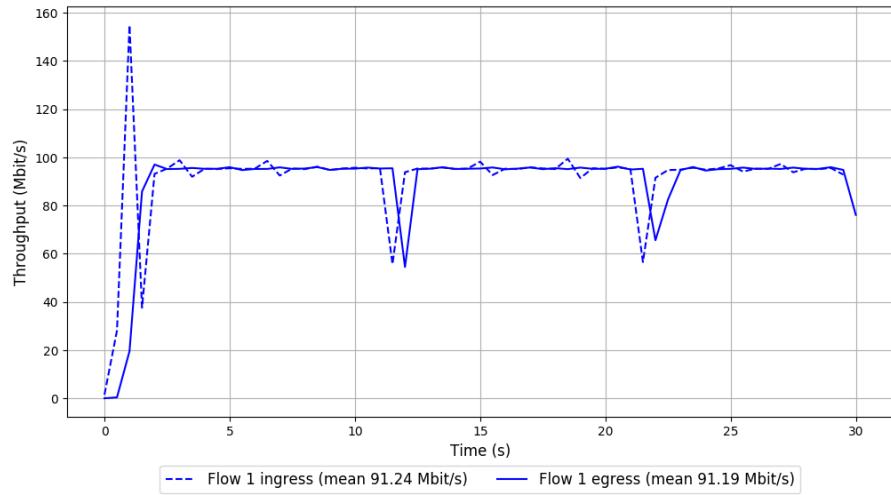


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-21 21:11:04
End at: 2019-01-21 21:11:34
Local clock offset: -6.883 ms
Remote clock offset: 7.666 ms

# Below is generated by plot.py at 2019-01-21 23:12:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.19 Mbit/s
95th percentile per-packet one-way delay: 104.697 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 91.19 Mbit/s
95th percentile per-packet one-way delay: 104.697 ms
Loss rate: 0.62%
```

Run 1: Report of FillP-Sheep — Data Link

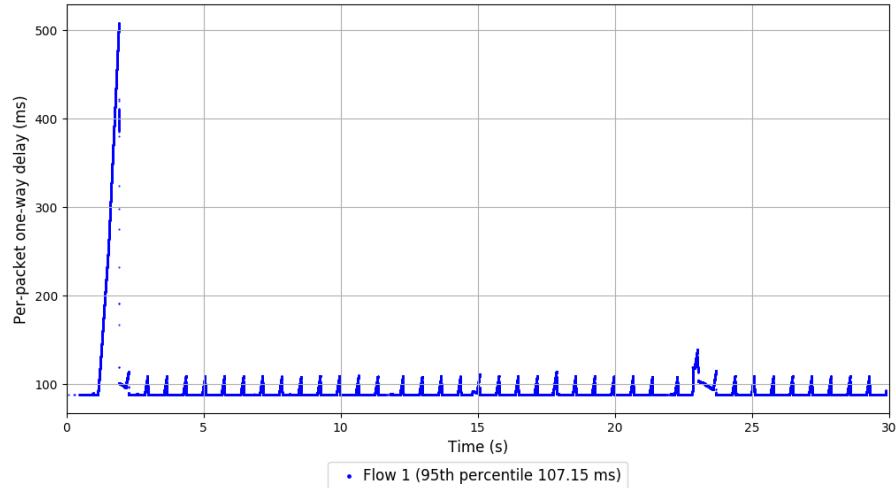
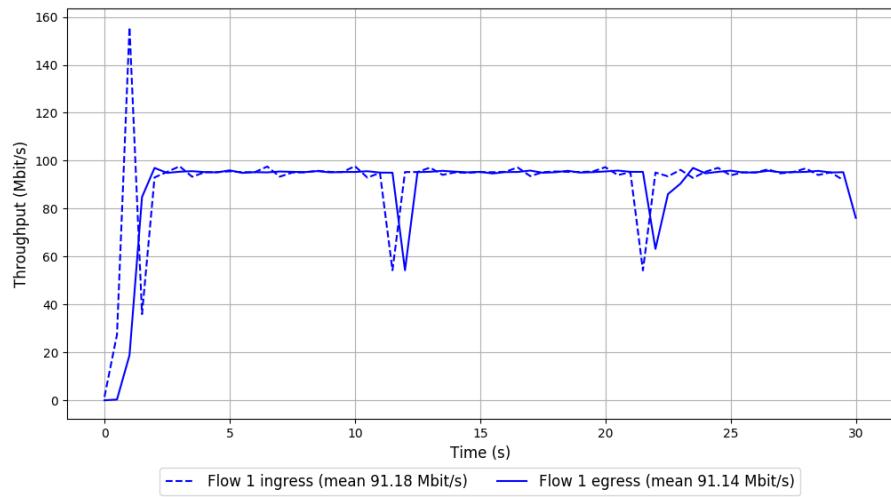


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-21 21:36:03
End at: 2019-01-21 21:36:34
Local clock offset: -6.575 ms
Remote clock offset: 5.435 ms

# Below is generated by plot.py at 2019-01-21 23:12:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 107.147 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 107.147 ms
Loss rate: 0.62%
```

Run 2: Report of FillP-Sheep — Data Link

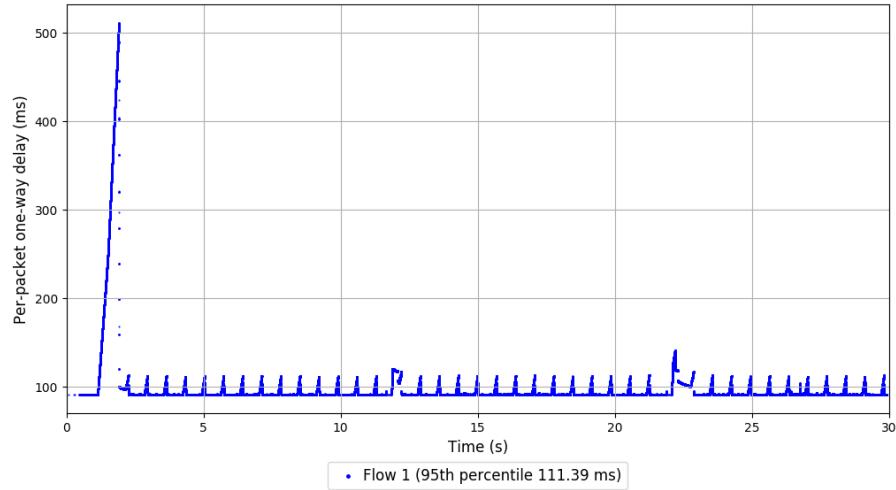
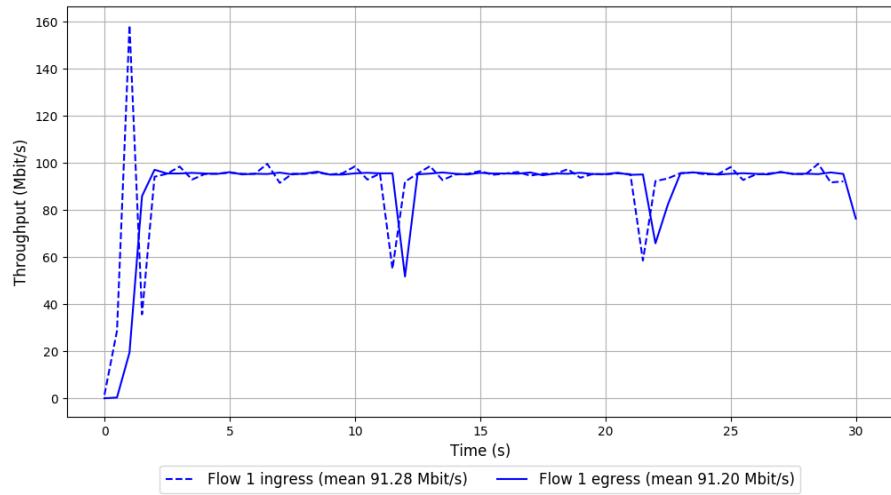


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-21 22:01:03
End at: 2019-01-21 22:01:33
Local clock offset: -6.464 ms
Remote clock offset: 1.867 ms

# Below is generated by plot.py at 2019-01-21 23:12:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 111.391 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 111.391 ms
Loss rate: 0.66%
```

Run 3: Report of FillP-Sheep — Data Link

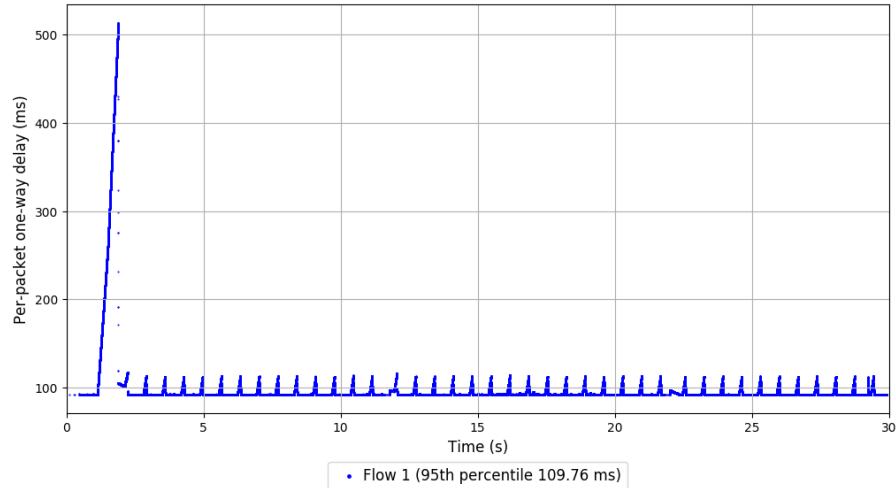
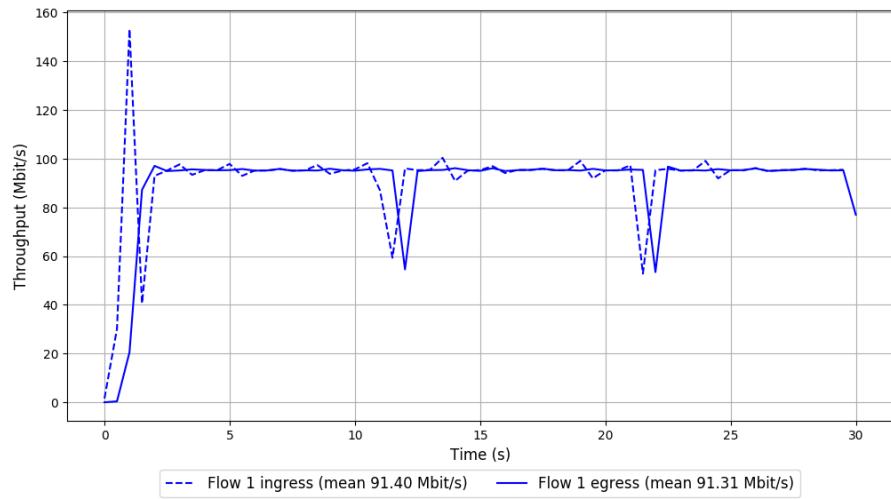


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-21 22:26:02
End at: 2019-01-21 22:26:32
Local clock offset: -2.643 ms
Remote clock offset: 1.388 ms

# Below is generated by plot.py at 2019-01-21 23:12:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 109.762 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 109.762 ms
Loss rate: 0.67%
```

Run 4: Report of FillP-Sheep — Data Link

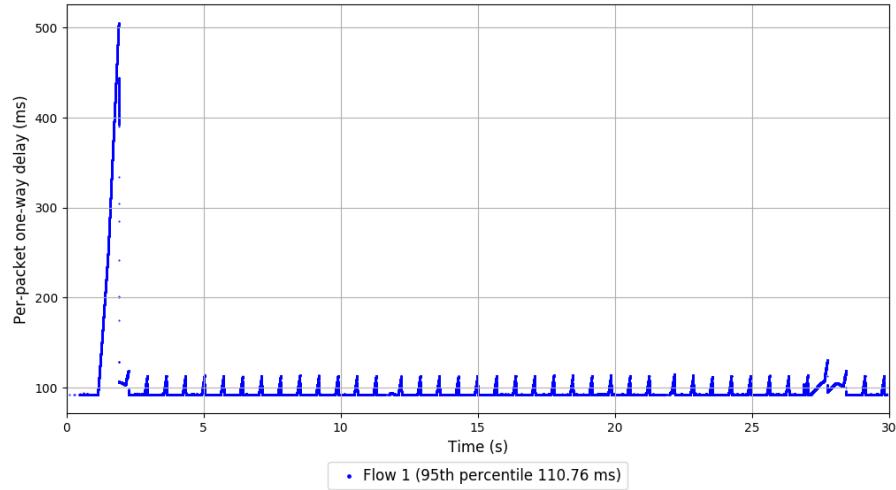
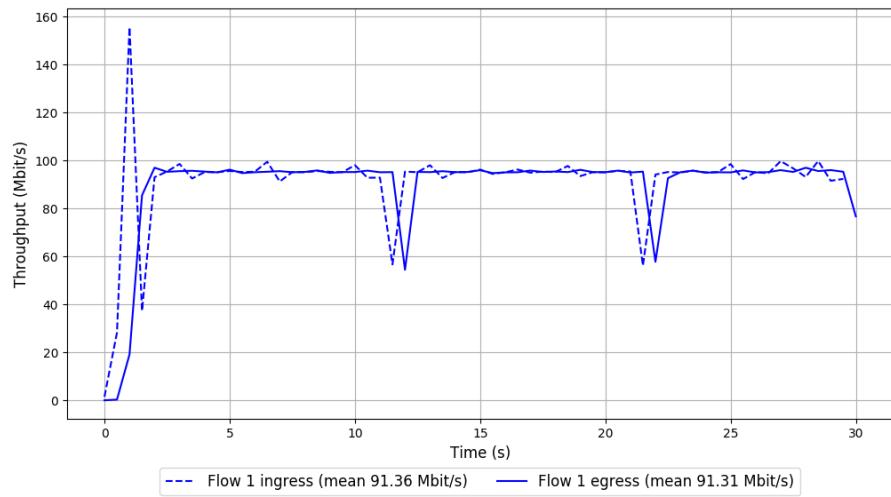


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-21 22:51:00
End at: 2019-01-21 22:51:30
Local clock offset: -0.455 ms
Remote clock offset: 2.196 ms

# Below is generated by plot.py at 2019-01-21 23:13:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 110.758 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 110.758 ms
Loss rate: 0.63%
```

Run 5: Report of FillP-Sheep — Data Link

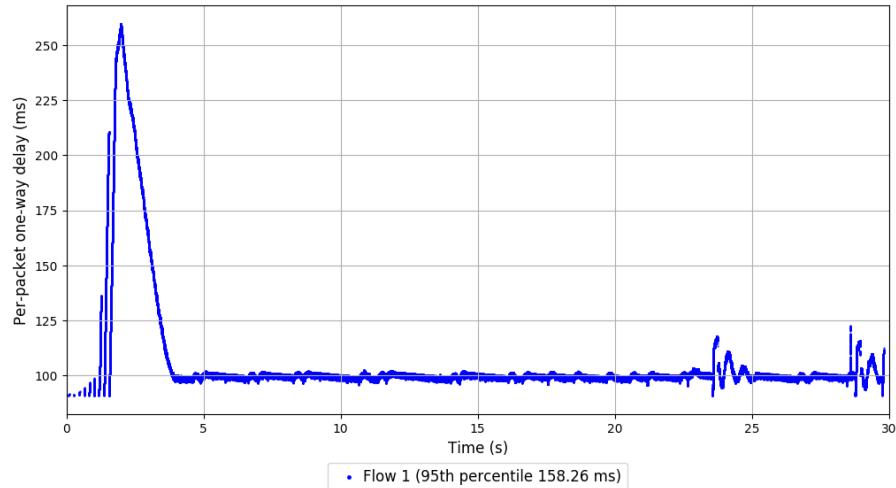
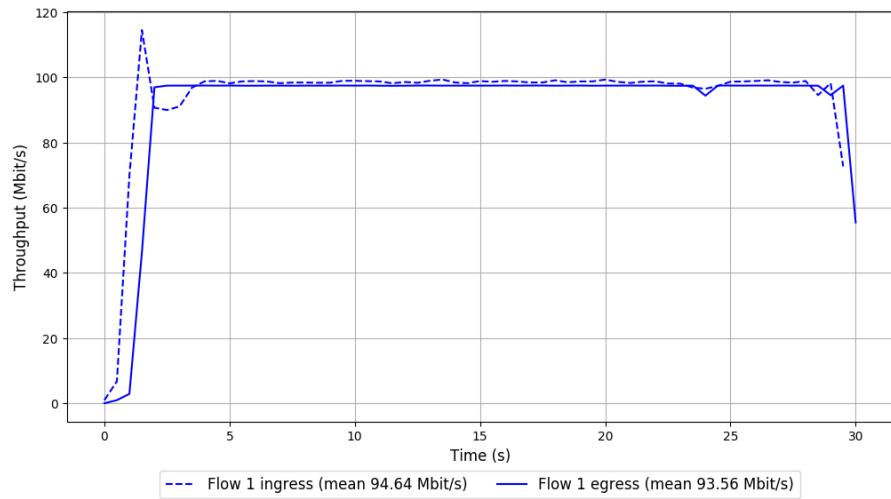


Run 1: Statistics of Indigo

```
Start at: 2019-01-21 21:13:23
End at: 2019-01-21 21:13:53
Local clock offset: -6.833 ms
Remote clock offset: 3.99 ms

# Below is generated by plot.py at 2019-01-21 23:13:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.56 Mbit/s
95th percentile per-packet one-way delay: 158.261 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 93.56 Mbit/s
95th percentile per-packet one-way delay: 158.261 ms
Loss rate: 1.71%
```

Run 1: Report of Indigo — Data Link

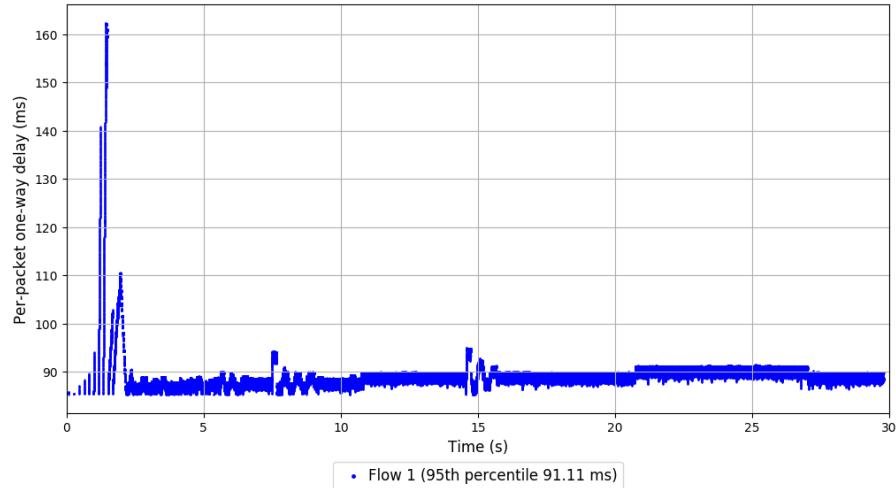
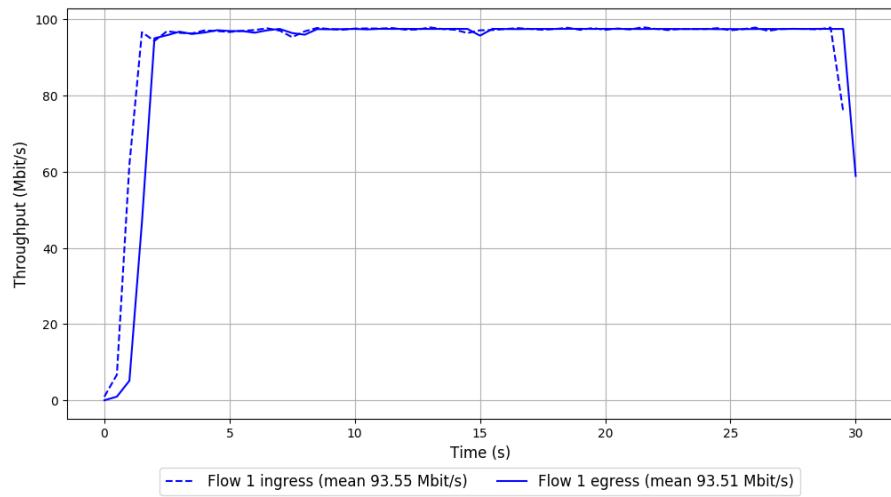


Run 2: Statistics of Indigo

```
Start at: 2019-01-21 21:38:23
End at: 2019-01-21 21:38:53
Local clock offset: -6.607 ms
Remote clock offset: 7.628 ms

# Below is generated by plot.py at 2019-01-21 23:13:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 91.114 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 91.114 ms
Loss rate: 0.62%
```

Run 2: Report of Indigo — Data Link

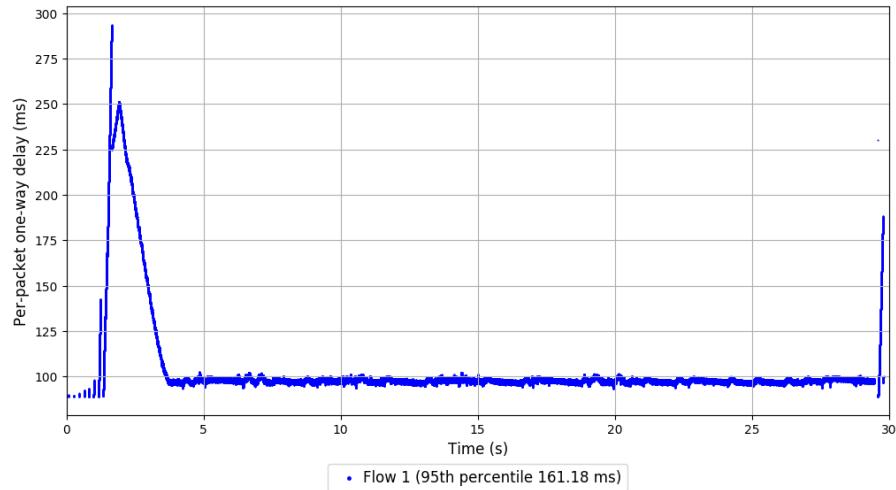
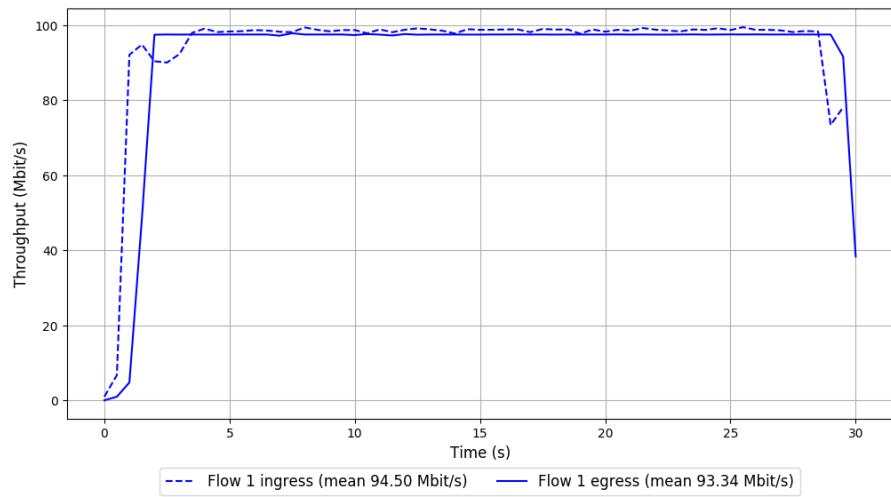


Run 3: Statistics of Indigo

```
Start at: 2019-01-21 22:03:22
End at: 2019-01-21 22:03:52
Local clock offset: -6.522 ms
Remote clock offset: 4.847 ms

# Below is generated by plot.py at 2019-01-21 23:13:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 161.177 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 161.177 ms
Loss rate: 1.79%
```

Run 3: Report of Indigo — Data Link

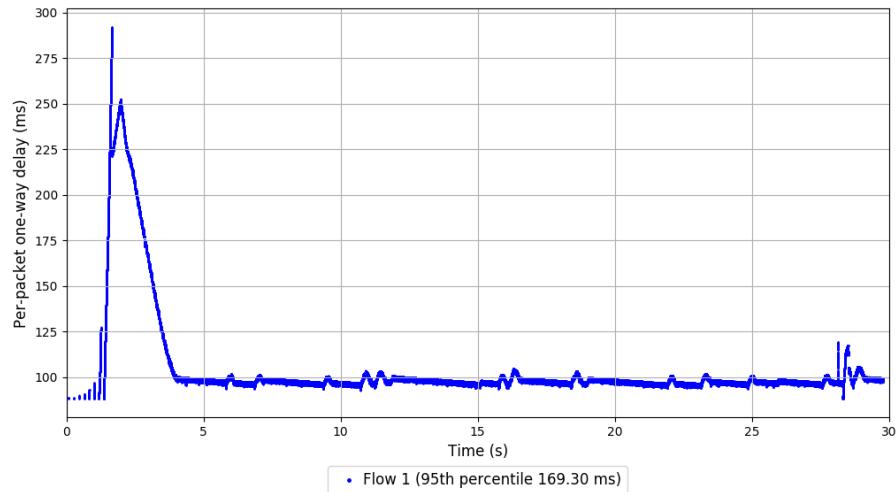
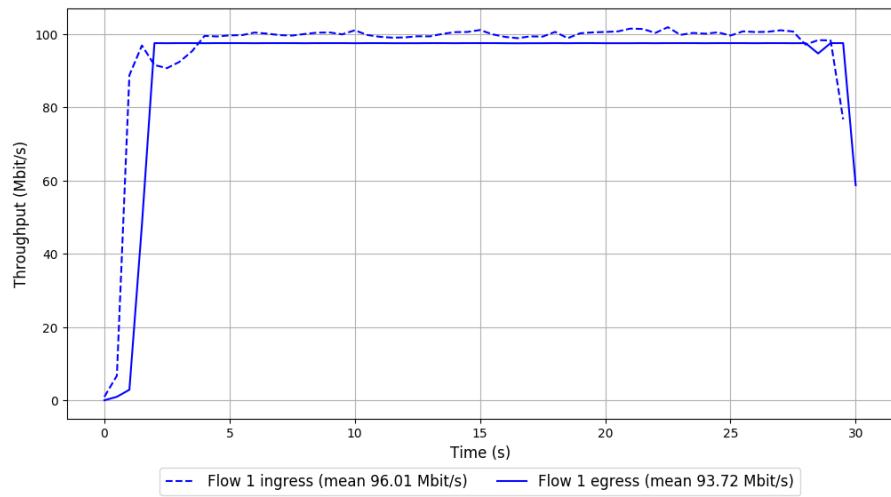


Run 4: Statistics of Indigo

```
Start at: 2019-01-21 22:28:21
End at: 2019-01-21 22:28:51
Local clock offset: -2.911 ms
Remote clock offset: 5.121 ms

# Below is generated by plot.py at 2019-01-21 23:13:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 169.300 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 169.300 ms
Loss rate: 2.96%
```

Run 4: Report of Indigo — Data Link

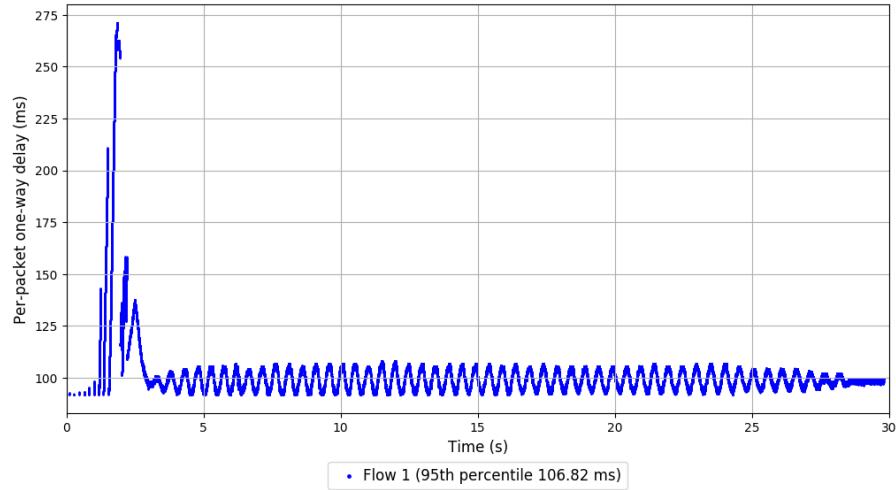
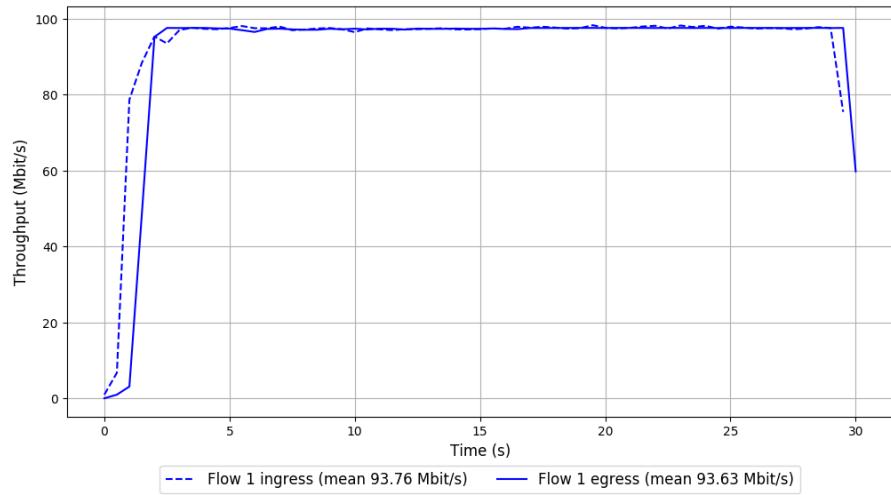


Run 5: Statistics of Indigo

```
Start at: 2019-01-21 22:53:19
End at: 2019-01-21 22:53:49
Local clock offset: -0.575 ms
Remote clock offset: 3.141 ms

# Below is generated by plot.py at 2019-01-21 23:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 106.816 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 106.816 ms
Loss rate: 0.72%
```

Run 5: Report of Indigo — Data Link

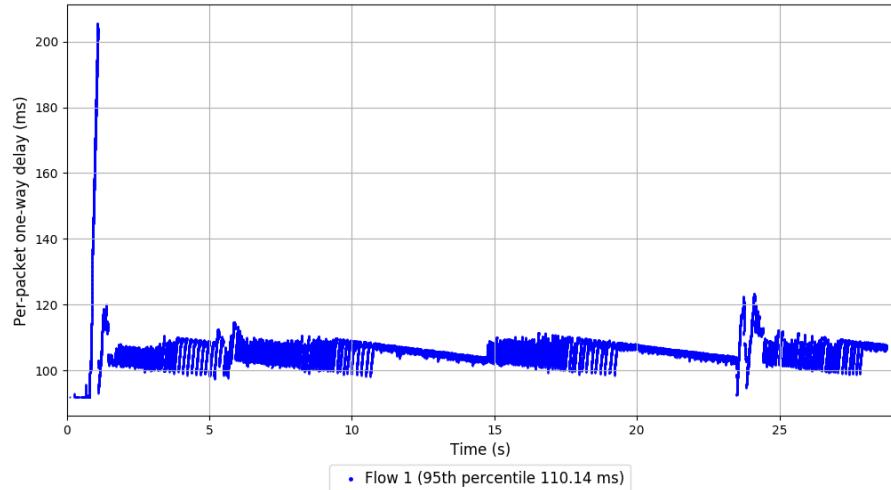
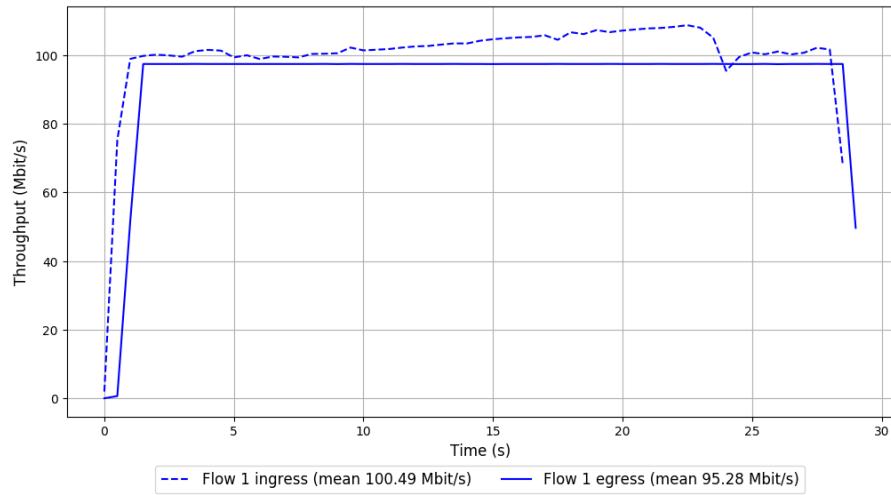


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 21:02:36
End at: 2019-01-21 21:03:06
Local clock offset: -6.137 ms
Remote clock offset: 2.608 ms

# Below is generated by plot.py at 2019-01-21 23:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 110.136 ms
Loss rate: 5.75%
-- Flow 1:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 110.136 ms
Loss rate: 5.75%
```

Run 1: Report of Indigo-MusesC3 — Data Link

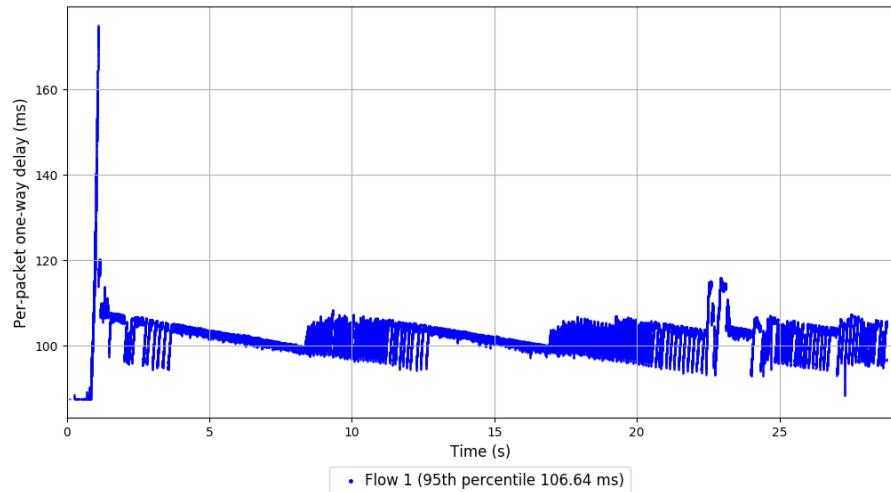
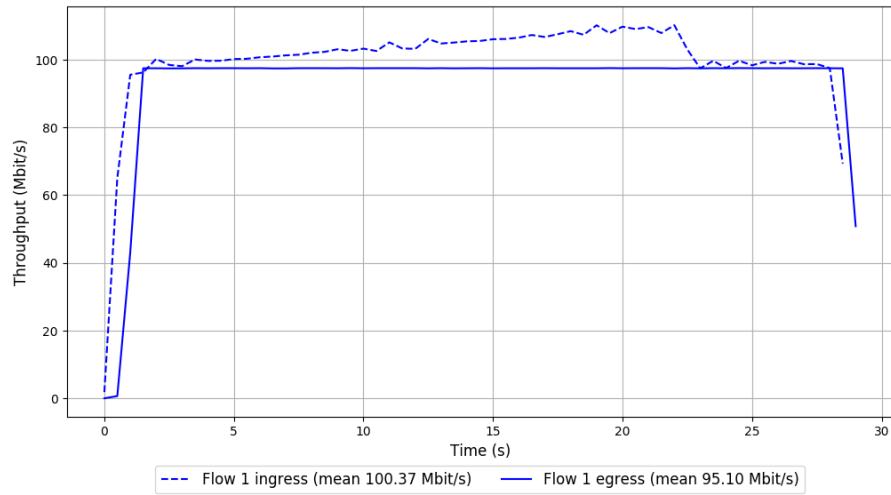


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 21:27:36
End at: 2019-01-21 21:28:06
Local clock offset: -6.564 ms
Remote clock offset: 6.793 ms

# Below is generated by plot.py at 2019-01-21 23:14:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.10 Mbit/s
95th percentile per-packet one-way delay: 106.639 ms
Loss rate: 5.81%
-- Flow 1:
Average throughput: 95.10 Mbit/s
95th percentile per-packet one-way delay: 106.639 ms
Loss rate: 5.81%
```

Run 2: Report of Indigo-MusesC3 — Data Link

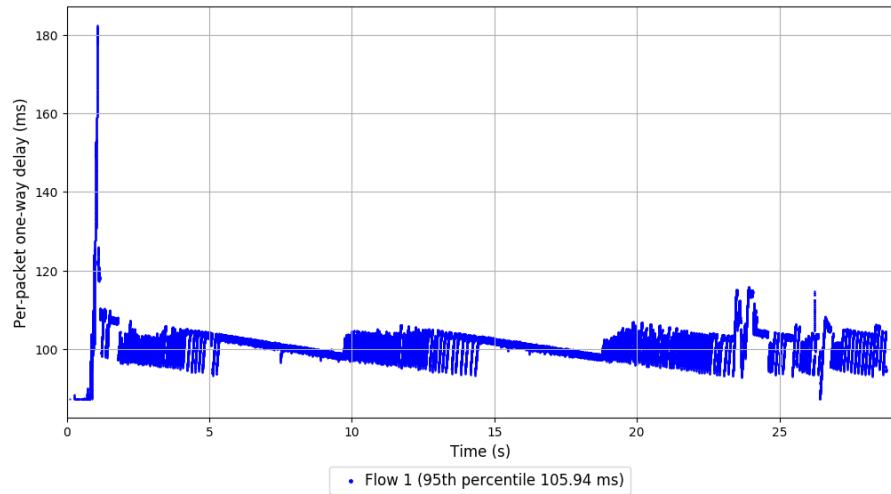
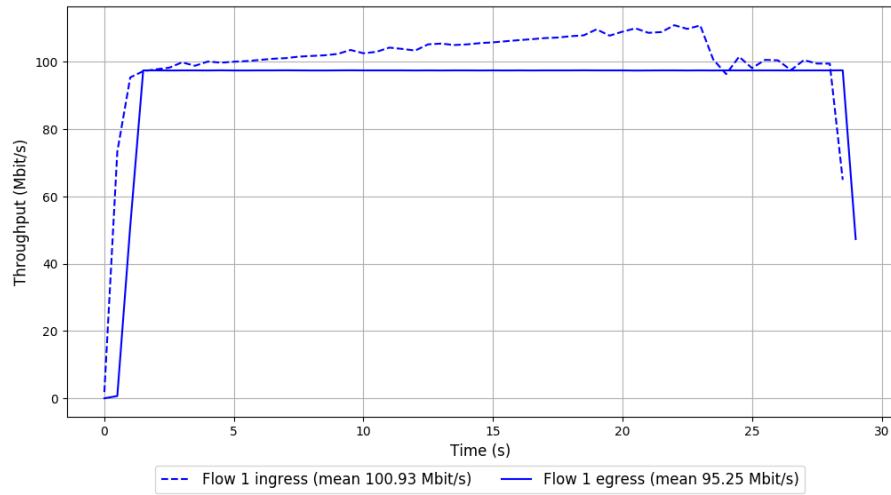


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 21:52:35
End at: 2019-01-21 21:53:05
Local clock offset: -6.2 ms
Remote clock offset: 5.968 ms

# Below is generated by plot.py at 2019-01-21 23:14:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.25 Mbit/s
95th percentile per-packet one-way delay: 105.944 ms
Loss rate: 6.19%
-- Flow 1:
Average throughput: 95.25 Mbit/s
95th percentile per-packet one-way delay: 105.944 ms
Loss rate: 6.19%
```

Run 3: Report of Indigo-MusesC3 — Data Link

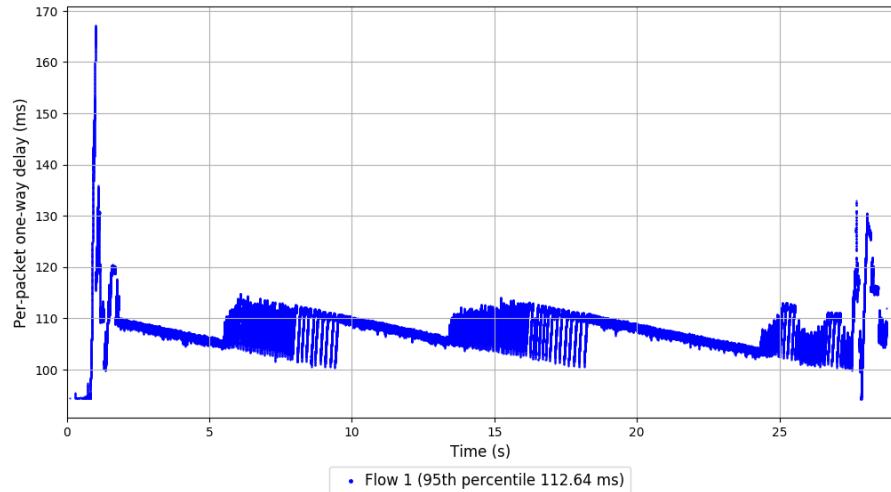
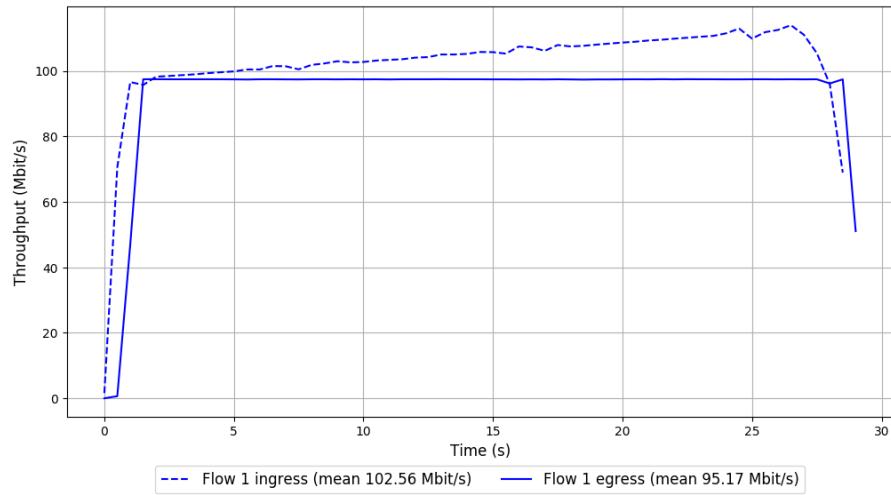


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 22:17:35
End at: 2019-01-21 22:18:05
Local clock offset: -5.974 ms
Remote clock offset: 5.1 ms

# Below is generated by plot.py at 2019-01-21 23:14:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 112.644 ms
Loss rate: 7.78%
-- Flow 1:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 112.644 ms
Loss rate: 7.78%
```

Run 4: Report of Indigo-MusesC3 — Data Link

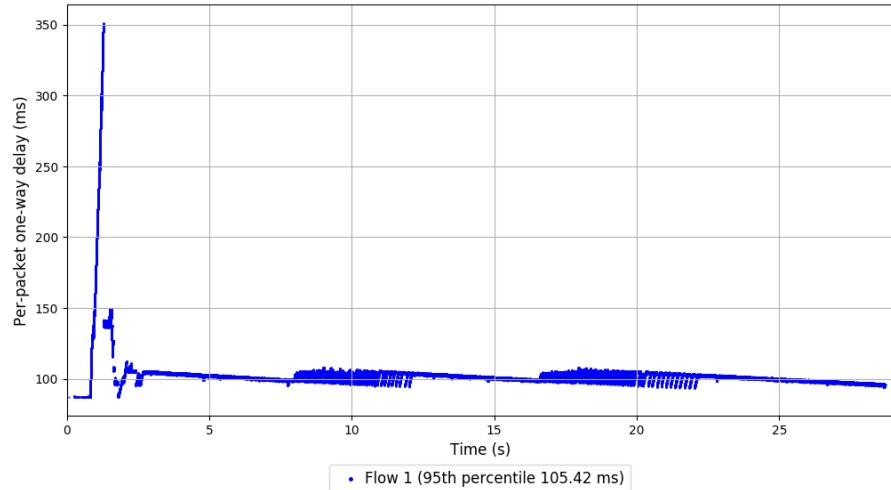
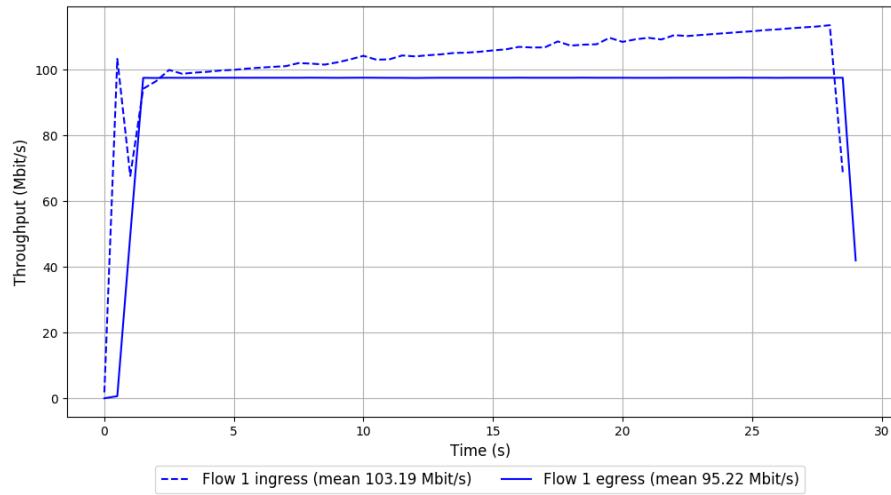


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 22:42:34
End at: 2019-01-21 22:43:04
Local clock offset: -1.05 ms
Remote clock offset: 6.777 ms

# Below is generated by plot.py at 2019-01-21 23:14:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.22 Mbit/s
95th percentile per-packet one-way delay: 105.418 ms
Loss rate: 8.28%
-- Flow 1:
Average throughput: 95.22 Mbit/s
95th percentile per-packet one-way delay: 105.418 ms
Loss rate: 8.28%
```

Run 5: Report of Indigo-MusesC3 — Data Link

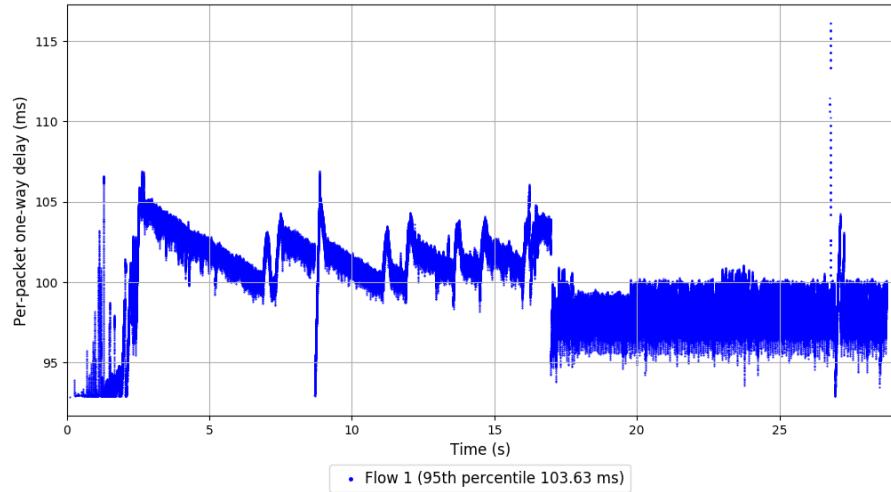
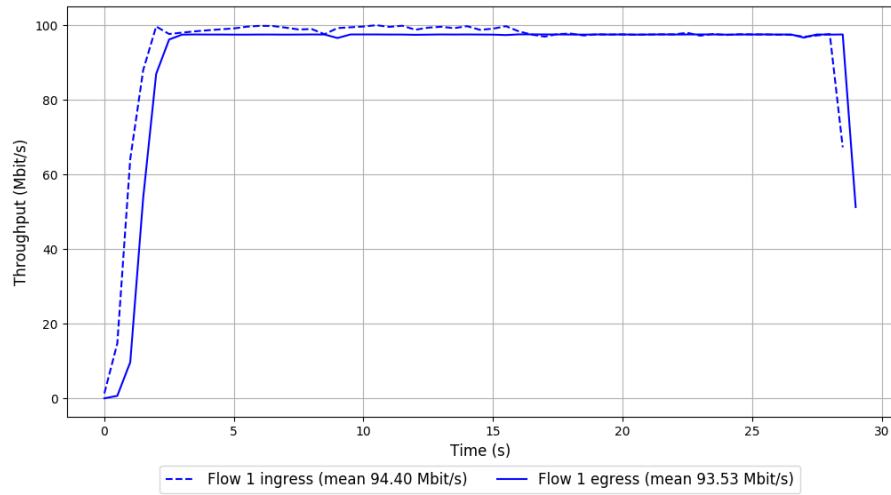


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-21 21:20:29
End at: 2019-01-21 21:20:59
Local clock offset: -5.935 ms
Remote clock offset: 2.996 ms

# Below is generated by plot.py at 2019-01-21 23:14:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 103.627 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 103.627 ms
Loss rate: 1.51%
```

Run 1: Report of Indigo-MusesC5 — Data Link

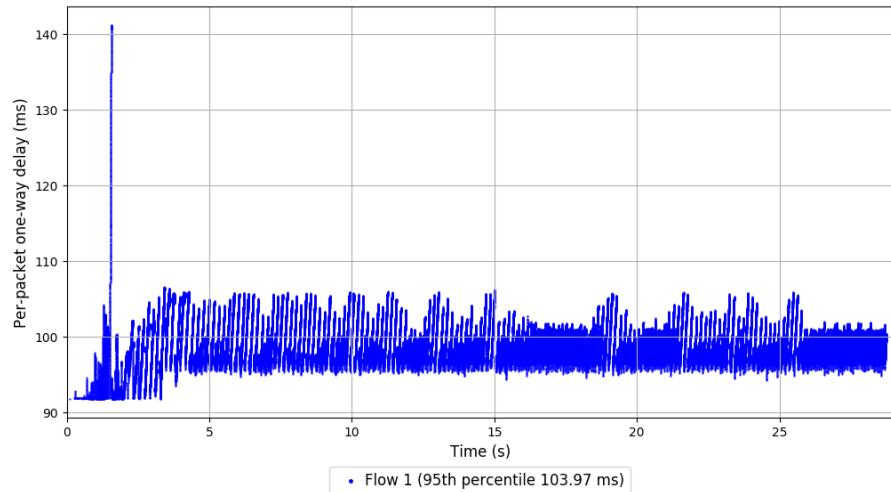
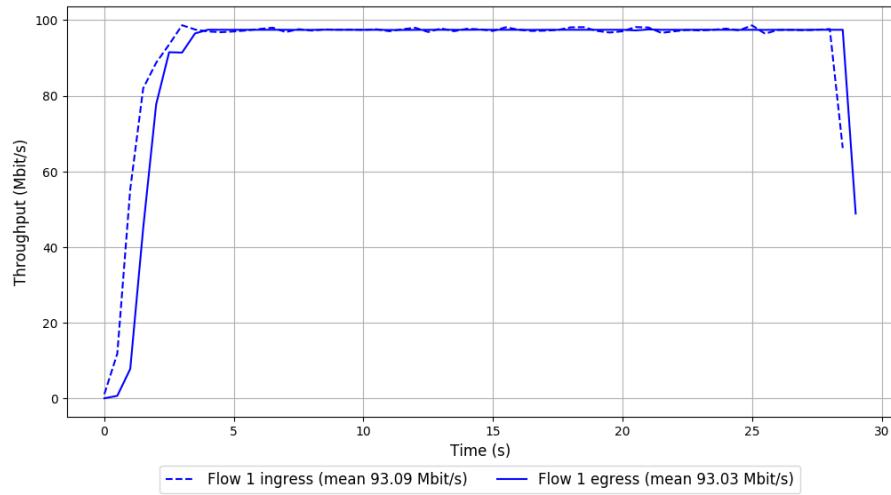


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 21:45:27
End at: 2019-01-21 21:45:57
Local clock offset: -6.755 ms
Remote clock offset: 7.234 ms

# Below is generated by plot.py at 2019-01-21 23:14:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 103.973 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 103.973 ms
Loss rate: 0.69%
```

Run 2: Report of Indigo-MusesC5 — Data Link

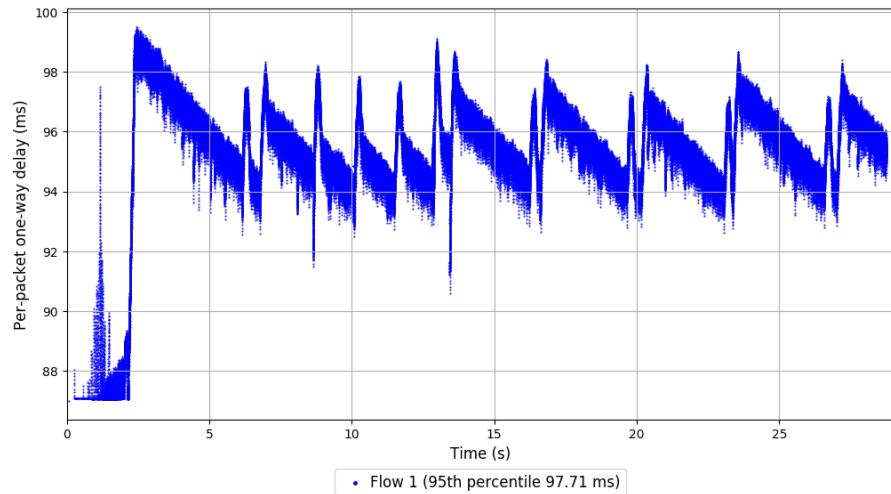
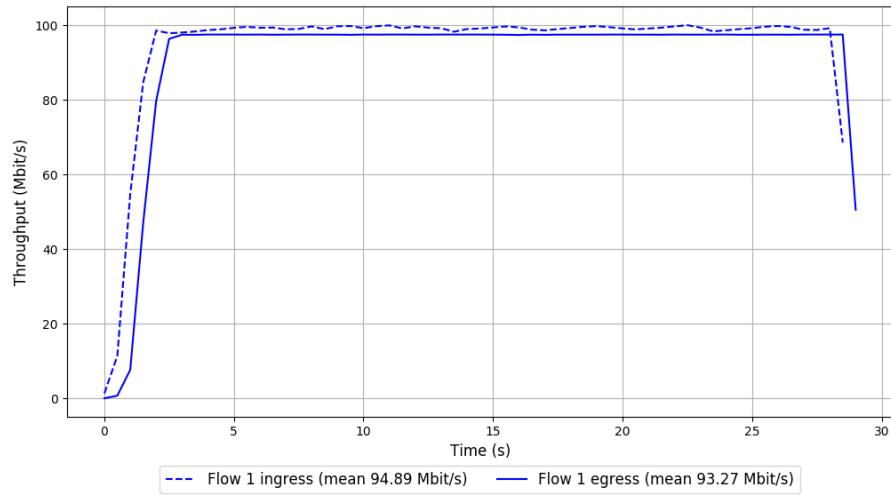


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 22:10:27
End at: 2019-01-21 22:10:57
Local clock offset: -7.507 ms
Remote clock offset: 6.125 ms

# Below is generated by plot.py at 2019-01-21 23:14:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 97.713 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 97.713 ms
Loss rate: 2.29%
```

Run 3: Report of Indigo-MusesC5 — Data Link

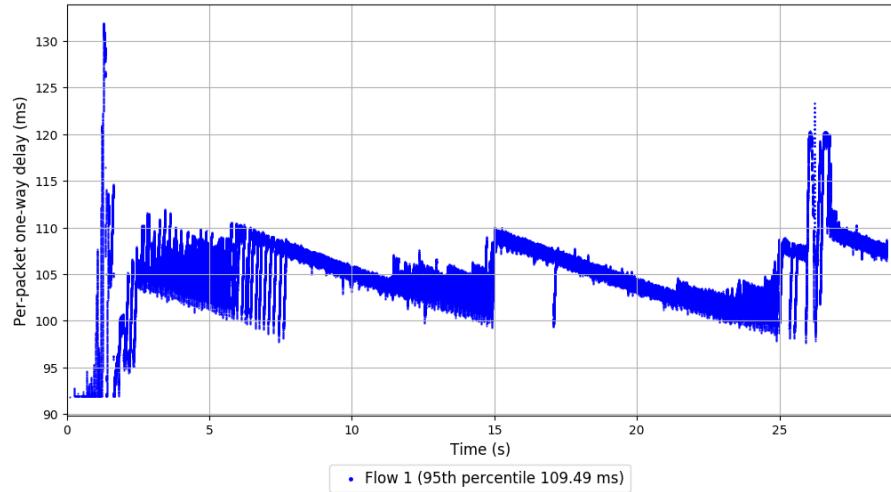
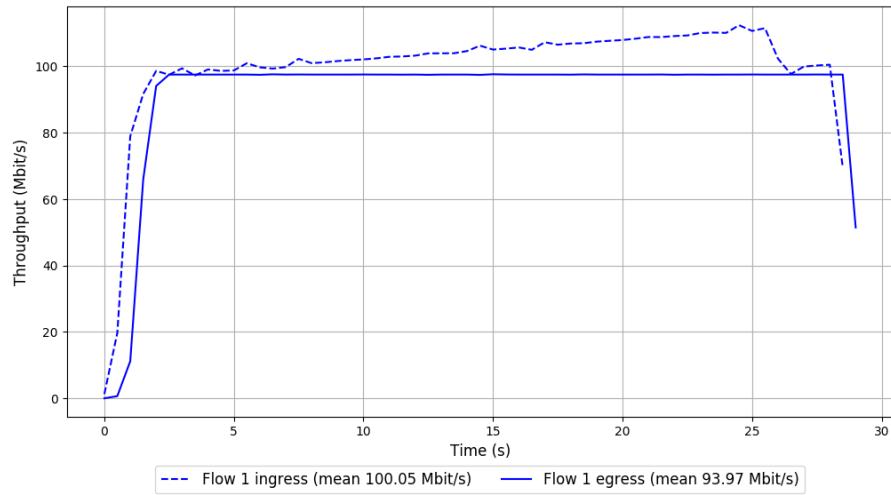


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 22:35:26
End at: 2019-01-21 22:35:56
Local clock offset: -1.842 ms
Remote clock offset: 1.558 ms

# Below is generated by plot.py at 2019-01-21 23:14:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.97 Mbit/s
95th percentile per-packet one-way delay: 109.489 ms
Loss rate: 6.65%
-- Flow 1:
Average throughput: 93.97 Mbit/s
95th percentile per-packet one-way delay: 109.489 ms
Loss rate: 6.65%
```

Run 4: Report of Indigo-MusesC5 — Data Link

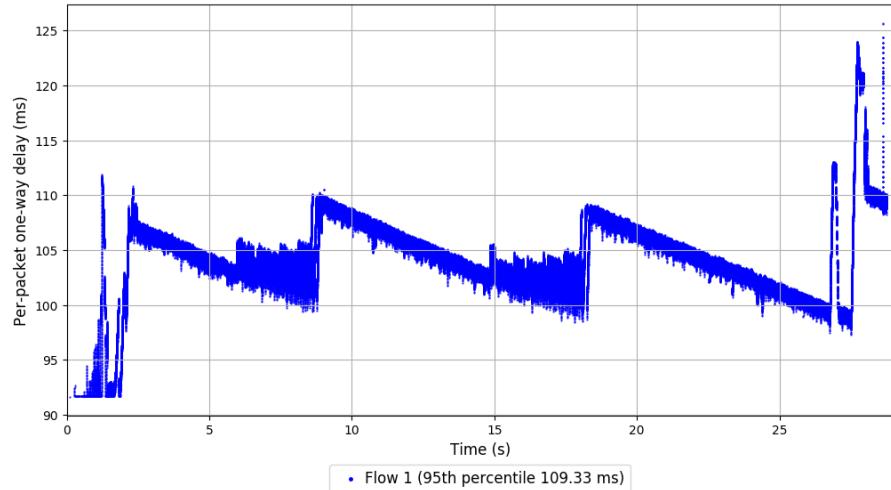
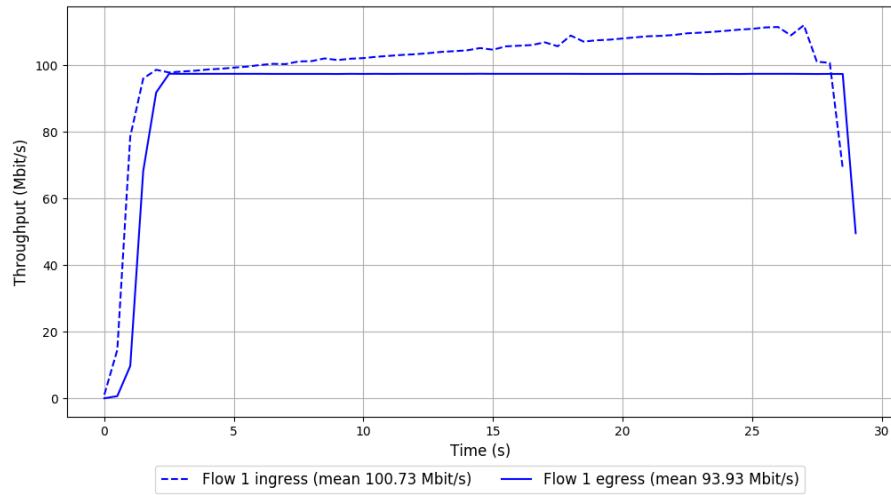


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 23:00:25
End at: 2019-01-21 23:00:55
Local clock offset: -1.532 ms
Remote clock offset: 8.452 ms

# Below is generated by plot.py at 2019-01-21 23:15:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 109.333 ms
Loss rate: 7.33%
-- Flow 1:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 109.333 ms
Loss rate: 7.33%
```

Run 5: Report of Indigo-MusesC5 — Data Link

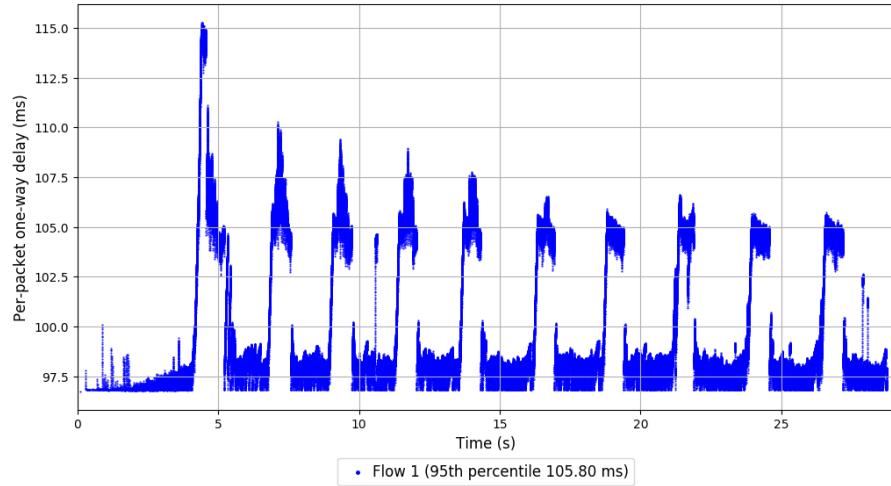
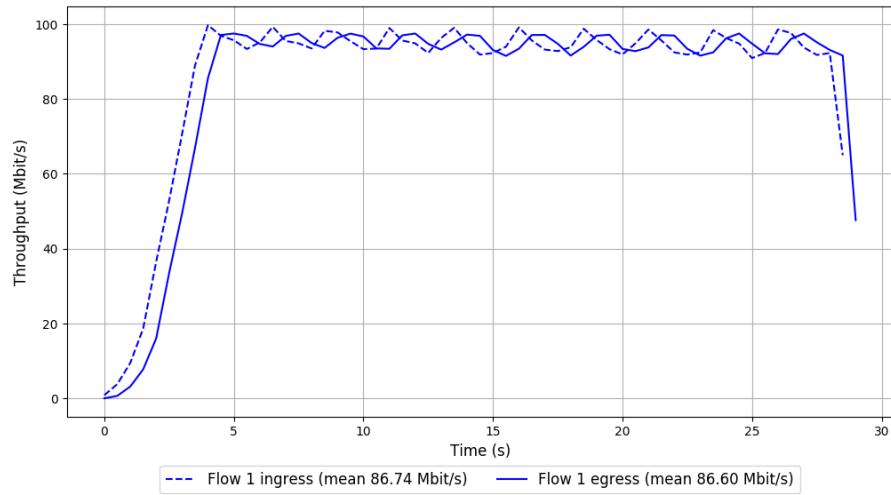


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-01-21 21:07:27
End at: 2019-01-21 21:07:57
Local clock offset: -6.795 ms
Remote clock offset: 3.761 ms

# Below is generated by plot.py at 2019-01-21 23:15:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.60 Mbit/s
95th percentile per-packet one-way delay: 105.802 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 86.60 Mbit/s
95th percentile per-packet one-way delay: 105.802 ms
Loss rate: 0.78%
```

Run 1: Report of Indigo-MusesD — Data Link

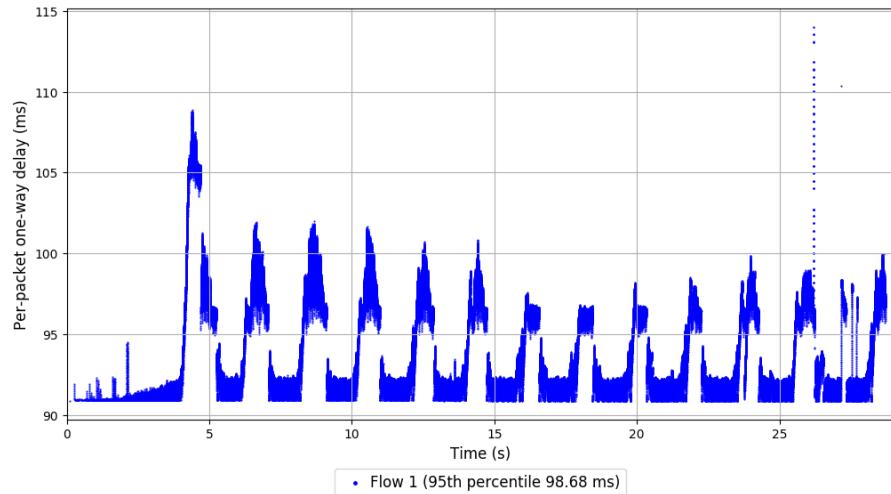
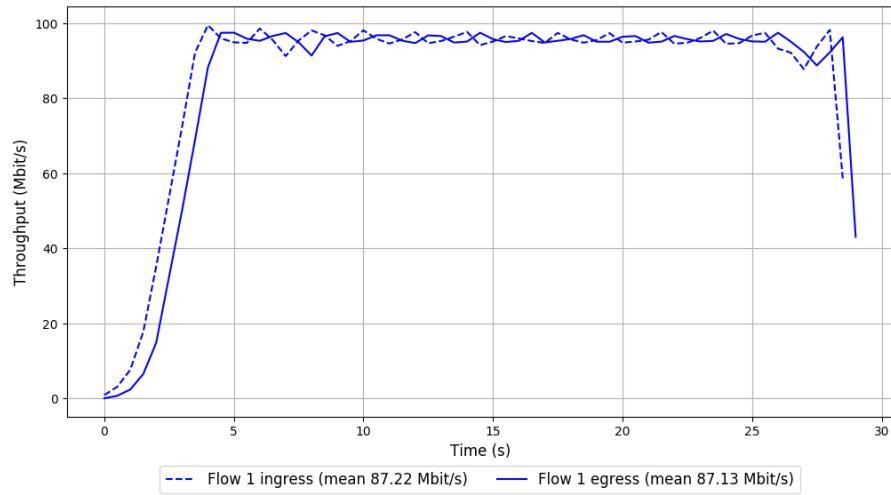


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 21:32:27
End at: 2019-01-21 21:32:57
Local clock offset: -5.816 ms
Remote clock offset: 3.304 ms

# Below is generated by plot.py at 2019-01-21 23:15:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.13 Mbit/s
95th percentile per-packet one-way delay: 98.676 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 87.13 Mbit/s
95th percentile per-packet one-way delay: 98.676 ms
Loss rate: 0.70%
```

Run 2: Report of Indigo-MusesD — Data Link

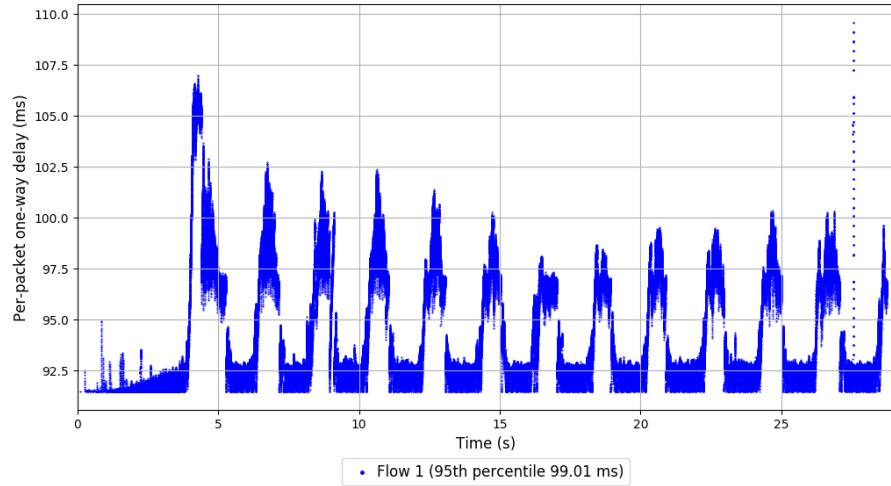
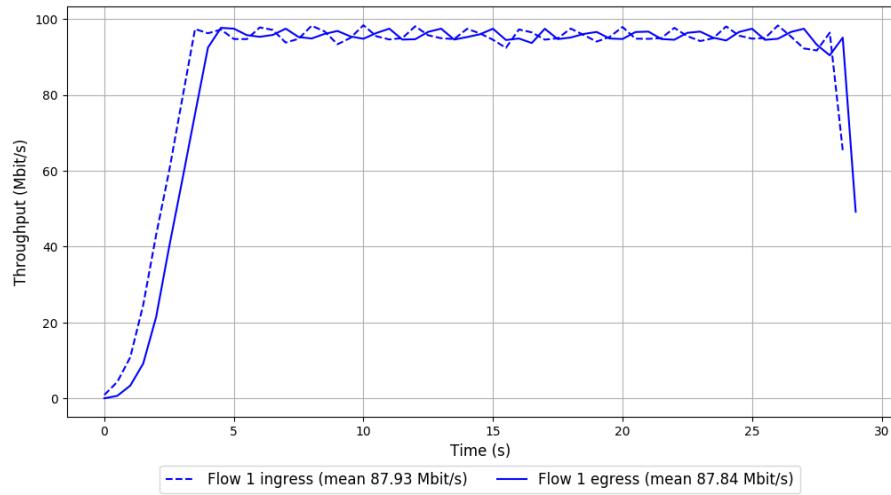


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 21:57:26
End at: 2019-01-21 21:57:56
Local clock offset: -7.201 ms
Remote clock offset: 0.936 ms

# Below is generated by plot.py at 2019-01-21 23:15:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.84 Mbit/s
95th percentile per-packet one-way delay: 99.007 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 87.84 Mbit/s
95th percentile per-packet one-way delay: 99.007 ms
Loss rate: 0.70%
```

Run 3: Report of Indigo-MusesD — Data Link

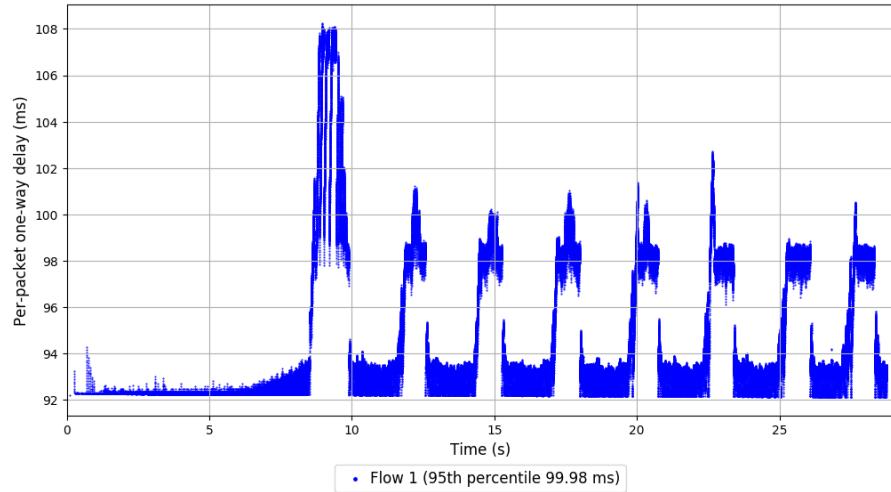
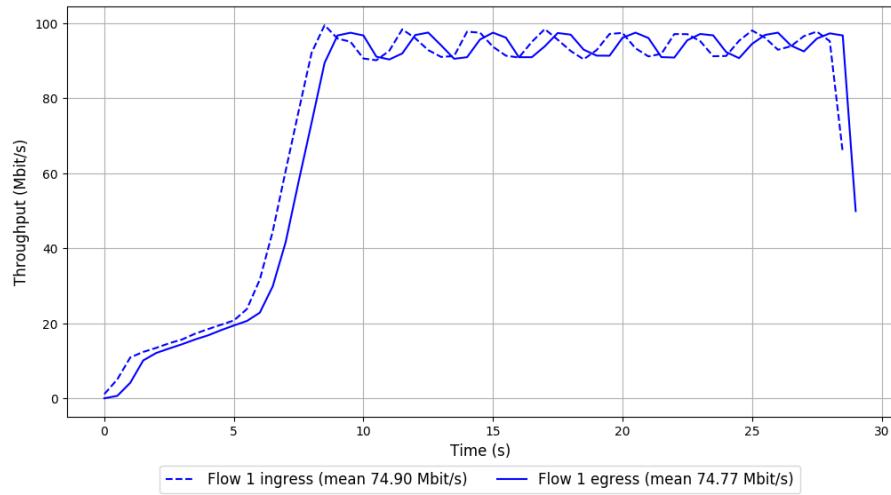


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 22:22:25
End at: 2019-01-21 22:22:55
Local clock offset: -3.684 ms
Remote clock offset: 1.103 ms

# Below is generated by plot.py at 2019-01-21 23:15:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.77 Mbit/s
95th percentile per-packet one-way delay: 99.977 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 74.77 Mbit/s
95th percentile per-packet one-way delay: 99.977 ms
Loss rate: 0.77%
```

Run 4: Report of Indigo-MusesD — Data Link

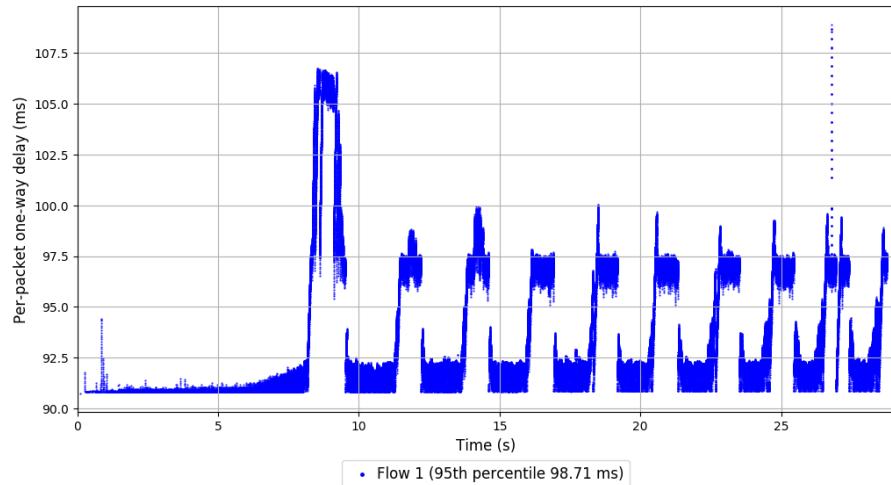
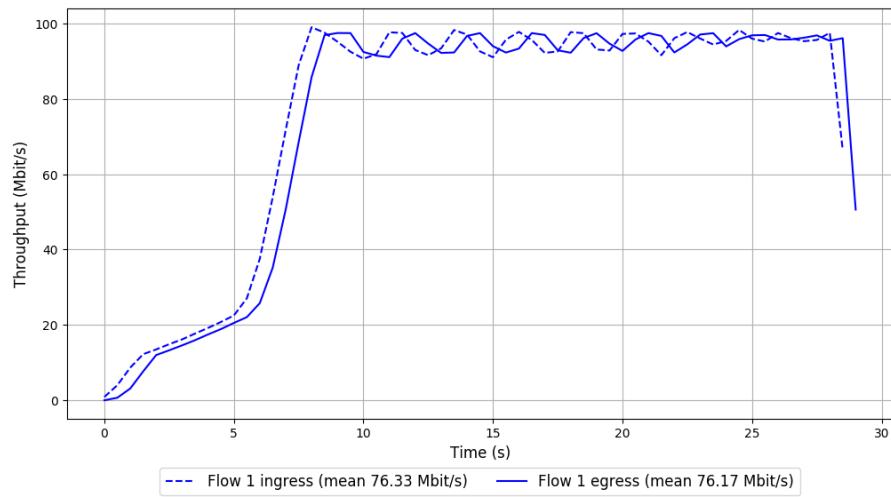


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 22:47:24
End at: 2019-01-21 22:47:54
Local clock offset: -0.968 ms
Remote clock offset: 3.278 ms

# Below is generated by plot.py at 2019-01-21 23:15:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.17 Mbit/s
95th percentile per-packet one-way delay: 98.711 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 76.17 Mbit/s
95th percentile per-packet one-way delay: 98.711 ms
Loss rate: 0.80%
```

Run 5: Report of Indigo-MusesD — Data Link

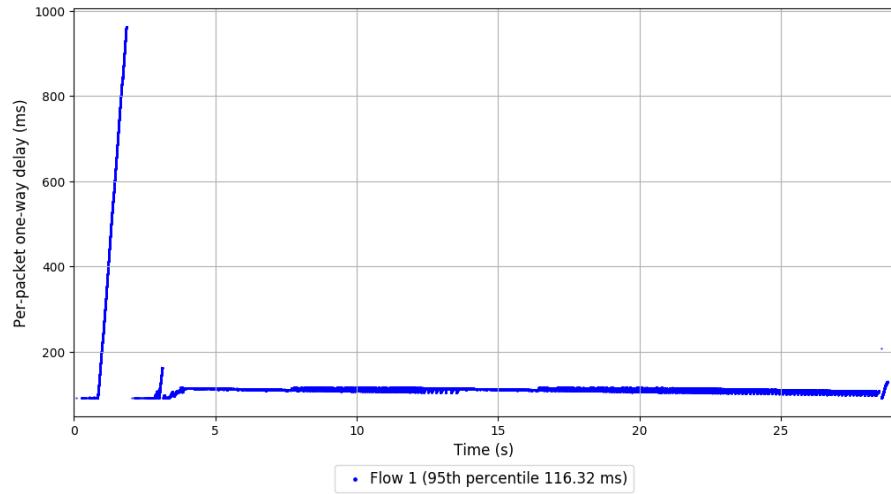
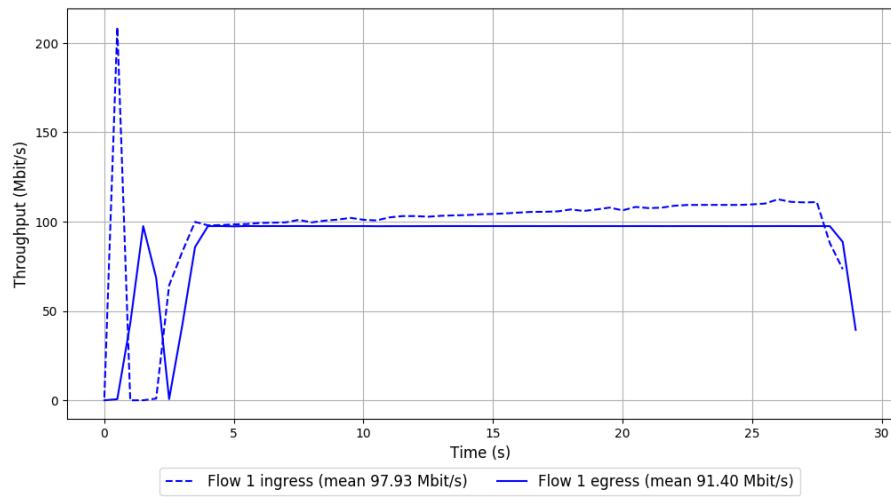


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 21:08:39
End at: 2019-01-21 21:09:09
Local clock offset: -6.023 ms
Remote clock offset: 3.77 ms

# Below is generated by plot.py at 2019-01-21 23:15:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.40 Mbit/s
95th percentile per-packet one-way delay: 116.322 ms
Loss rate: 7.23%
-- Flow 1:
Average throughput: 91.40 Mbit/s
95th percentile per-packet one-way delay: 116.322 ms
Loss rate: 7.23%
```

Run 1: Report of Indigo-MusesT — Data Link

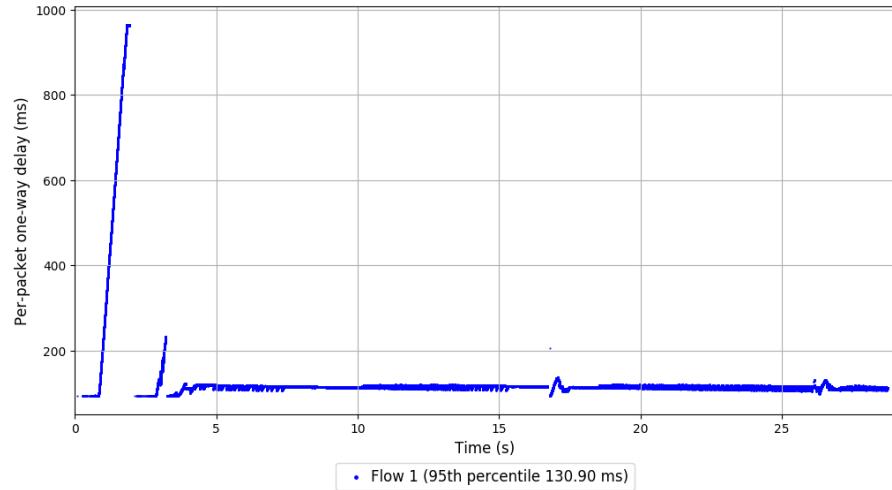
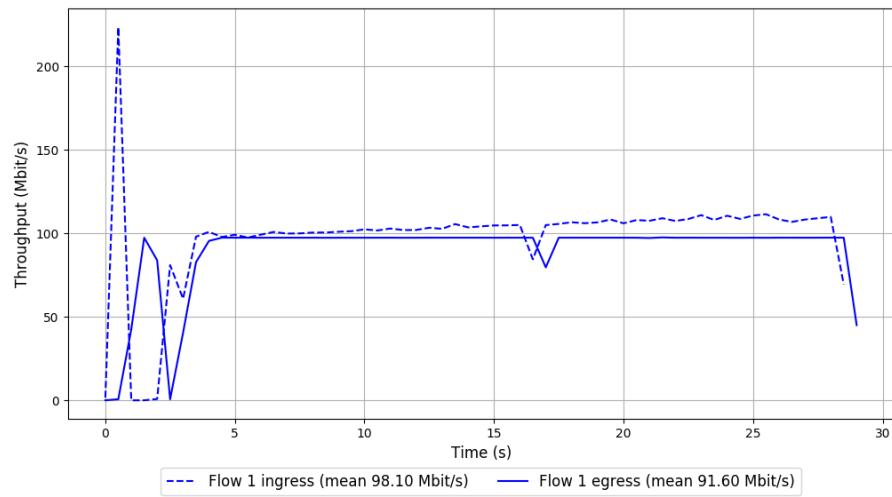


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 21:33:38
End at: 2019-01-21 21:34:09
Local clock offset: -6.623 ms
Remote clock offset: 5.826 ms

# Below is generated by plot.py at 2019-01-21 23:15:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.60 Mbit/s
95th percentile per-packet one-way delay: 130.897 ms
Loss rate: 7.21%
-- Flow 1:
Average throughput: 91.60 Mbit/s
95th percentile per-packet one-way delay: 130.897 ms
Loss rate: 7.21%
```

Run 2: Report of Indigo-MusesT — Data Link

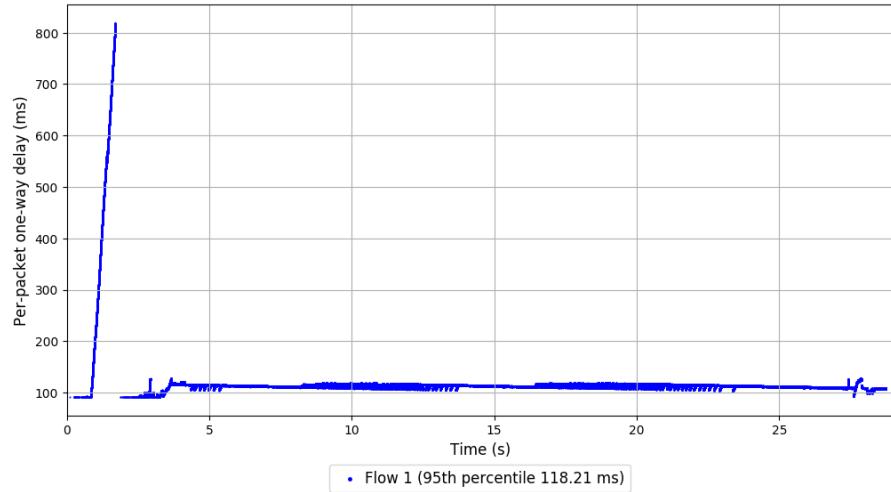
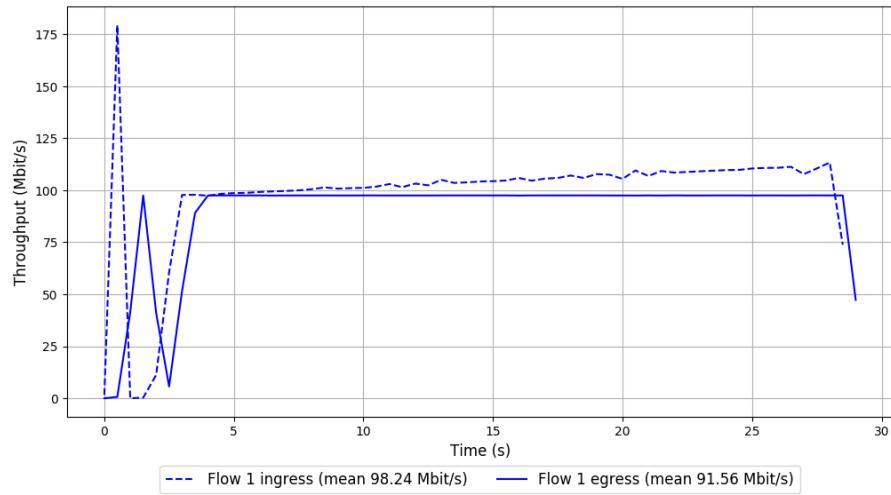


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 21:58:38
End at: 2019-01-21 21:59:08
Local clock offset: -7.234 ms
Remote clock offset: 7.199 ms

# Below is generated by plot.py at 2019-01-21 23:16:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.56 Mbit/s
95th percentile per-packet one-way delay: 118.208 ms
Loss rate: 7.38%
-- Flow 1:
Average throughput: 91.56 Mbit/s
95th percentile per-packet one-way delay: 118.208 ms
Loss rate: 7.38%
```

Run 3: Report of Indigo-MusesT — Data Link

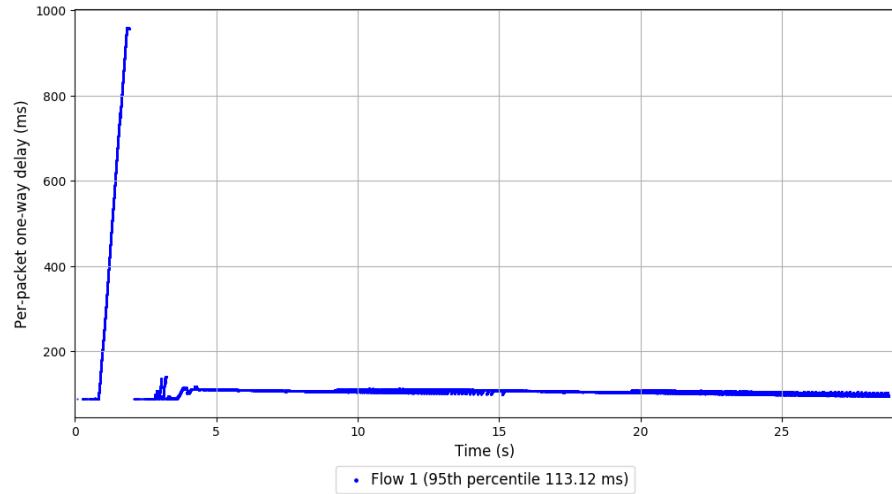
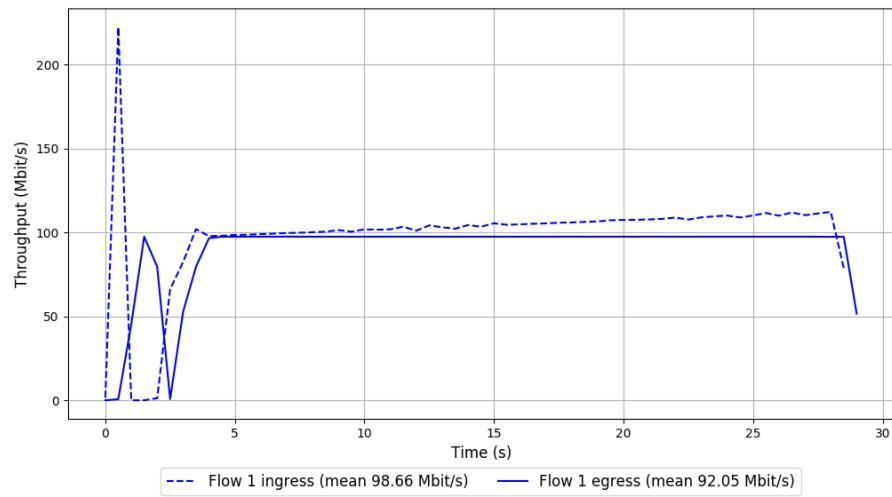


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 22:23:37
End at: 2019-01-21 22:24:07
Local clock offset: -3.265 ms
Remote clock offset: 5.112 ms

# Below is generated by plot.py at 2019-01-21 23:16:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.05 Mbit/s
95th percentile per-packet one-way delay: 113.119 ms
Loss rate: 7.26%
-- Flow 1:
Average throughput: 92.05 Mbit/s
95th percentile per-packet one-way delay: 113.119 ms
Loss rate: 7.26%
```

Run 4: Report of Indigo-MusesT — Data Link

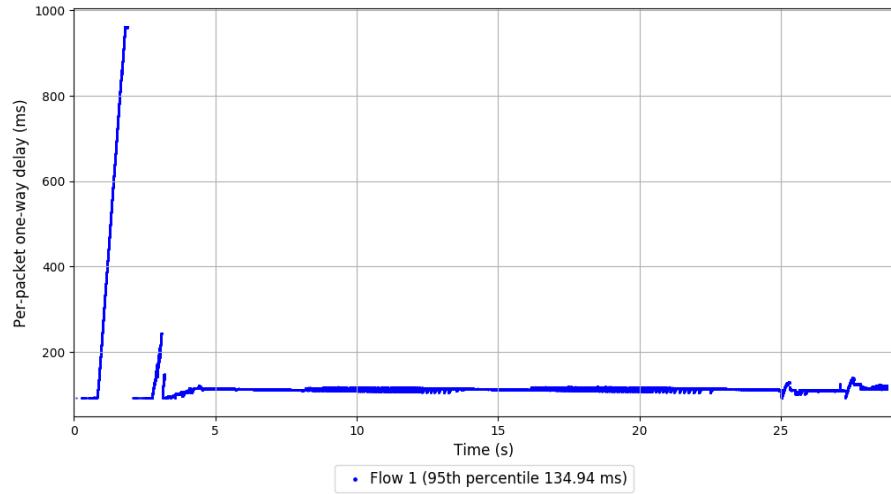
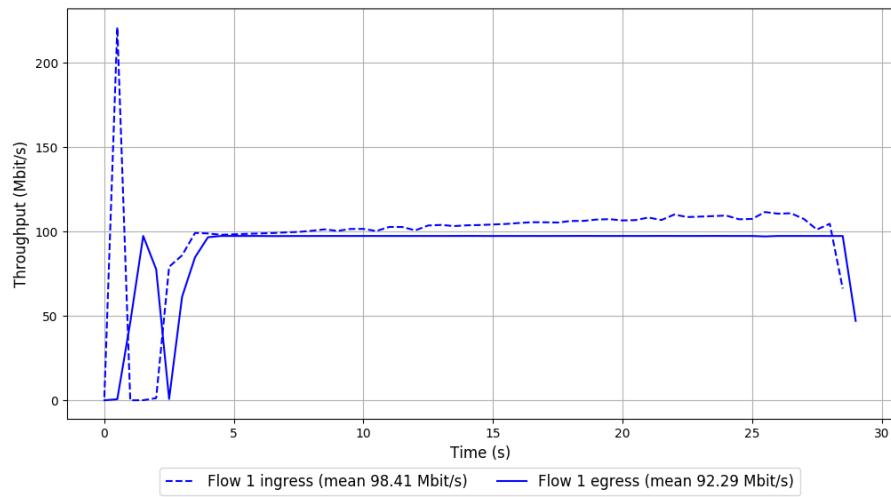


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 22:48:35
End at: 2019-01-21 22:49:05
Local clock offset: -1.023 ms
Remote clock offset: 1.97 ms

# Below is generated by plot.py at 2019-01-21 23:16:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 134.939 ms
Loss rate: 6.79%
-- Flow 1:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 134.939 ms
Loss rate: 6.79%
```

Run 5: Report of Indigo-MusesT — Data Link

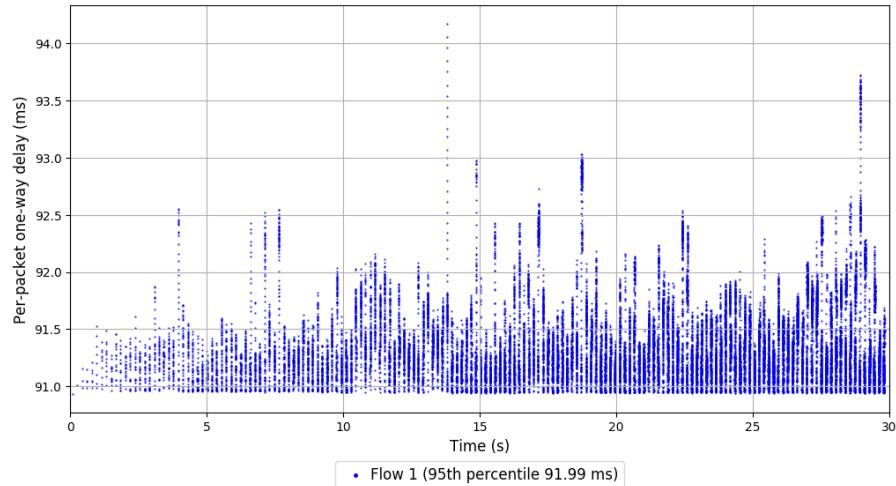
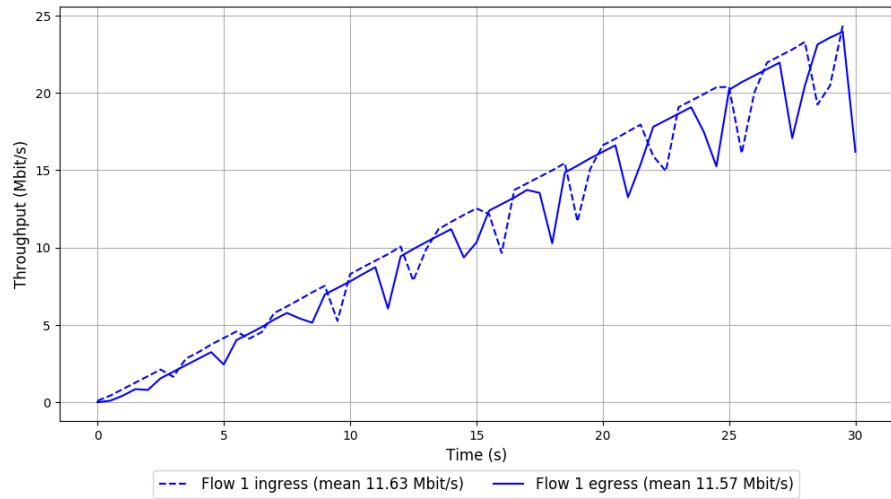


Run 1: Statistics of LEDBAT

```
Start at: 2019-01-21 21:18:08
End at: 2019-01-21 21:18:38
Local clock offset: -6.776 ms
Remote clock offset: 4.17 ms

# Below is generated by plot.py at 2019-01-21 23:16:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 91.988 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 91.988 ms
Loss rate: 1.17%
```

Run 1: Report of LEDBAT — Data Link

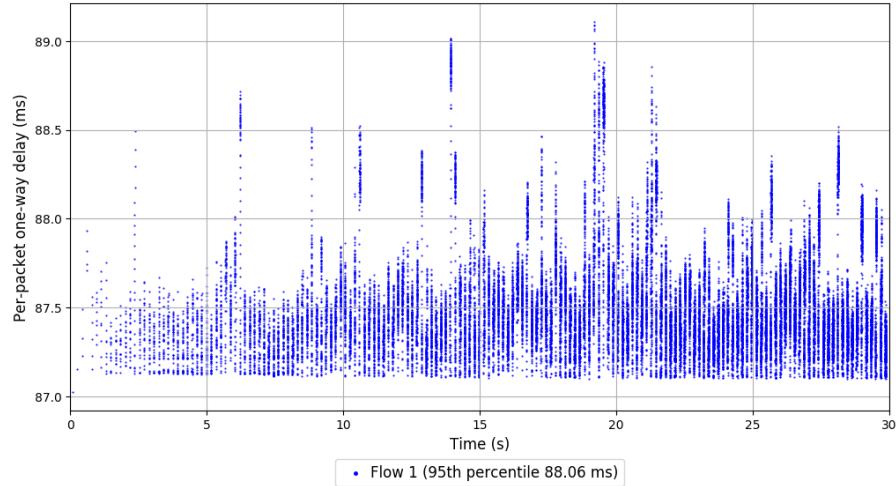
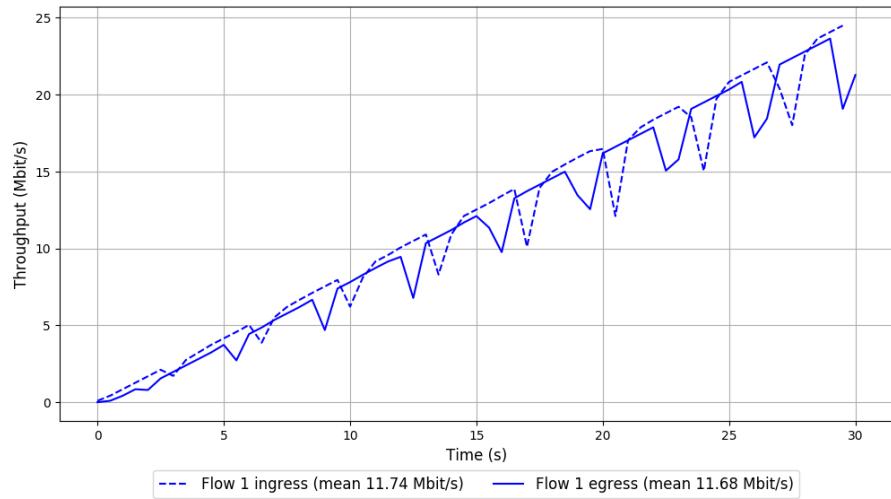


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-21 21:43:07
End at: 2019-01-21 21:43:37
Local clock offset: -6.665 ms
Remote clock offset: 6.334 ms

# Below is generated by plot.py at 2019-01-21 23:16:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 88.055 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 88.055 ms
Loss rate: 1.17%
```

Run 2: Report of LEDBAT — Data Link

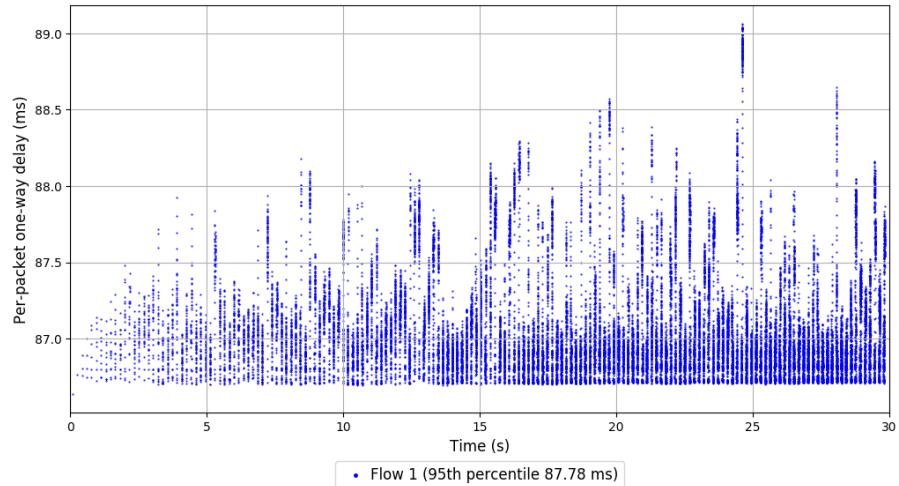
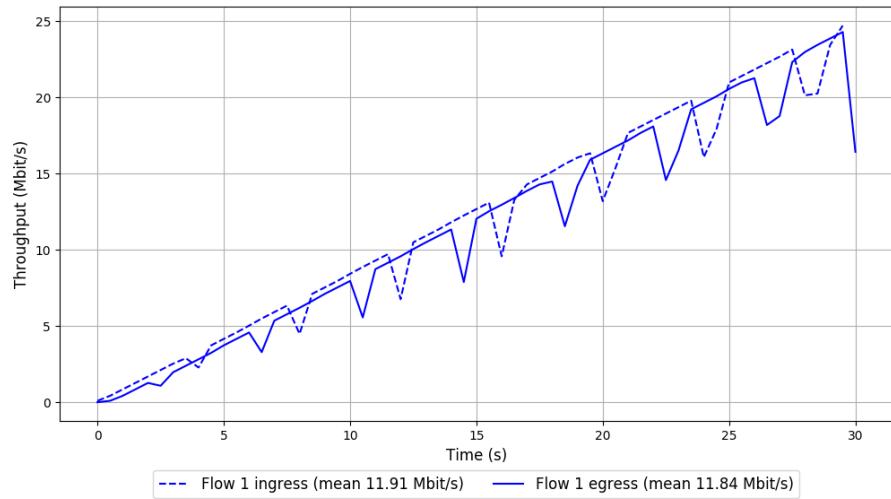


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-21 22:08:07
End at: 2019-01-21 22:08:37
Local clock offset: -6.692 ms
Remote clock offset: 7.248 ms

# Below is generated by plot.py at 2019-01-21 23:16:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 87.781 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 87.781 ms
Loss rate: 1.16%
```

Run 3: Report of LEDBAT — Data Link

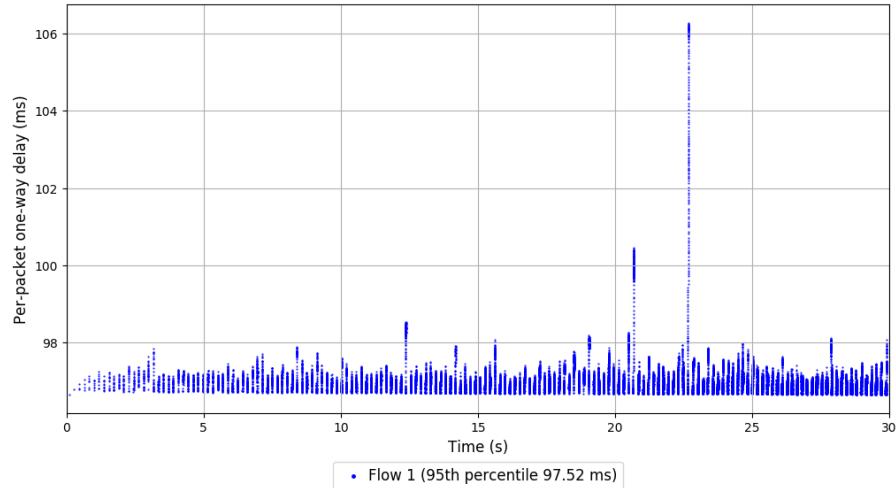
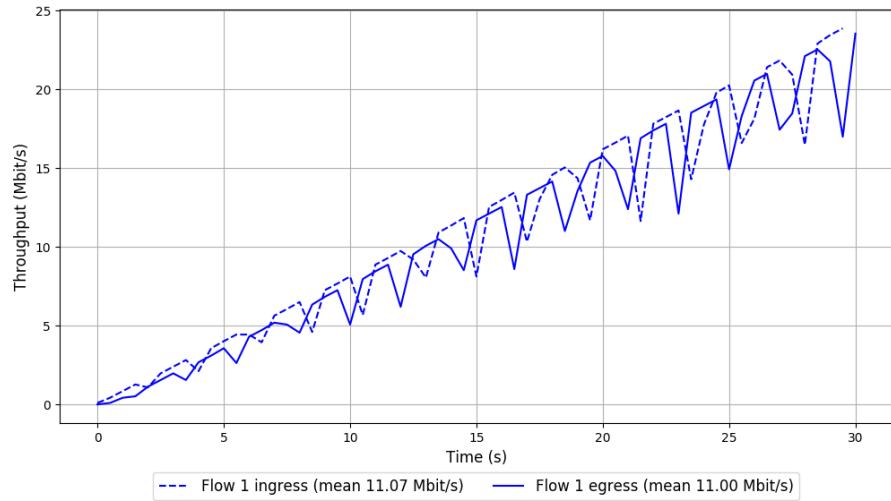


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-21 22:33:06
End at: 2019-01-21 22:33:36
Local clock offset: -2.069 ms
Remote clock offset: 2.639 ms

# Below is generated by plot.py at 2019-01-21 23:16:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.00 Mbit/s
95th percentile per-packet one-way delay: 97.519 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 11.00 Mbit/s
95th percentile per-packet one-way delay: 97.519 ms
Loss rate: 1.20%
```

Run 4: Report of LEDBAT — Data Link

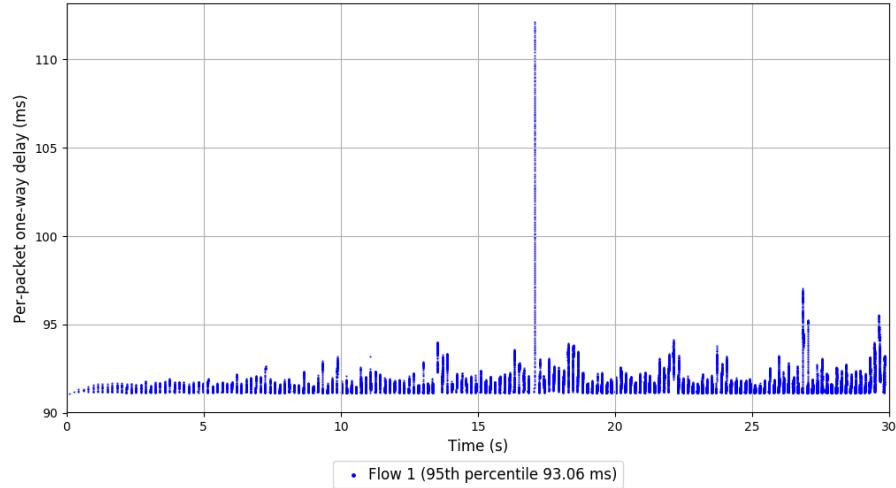
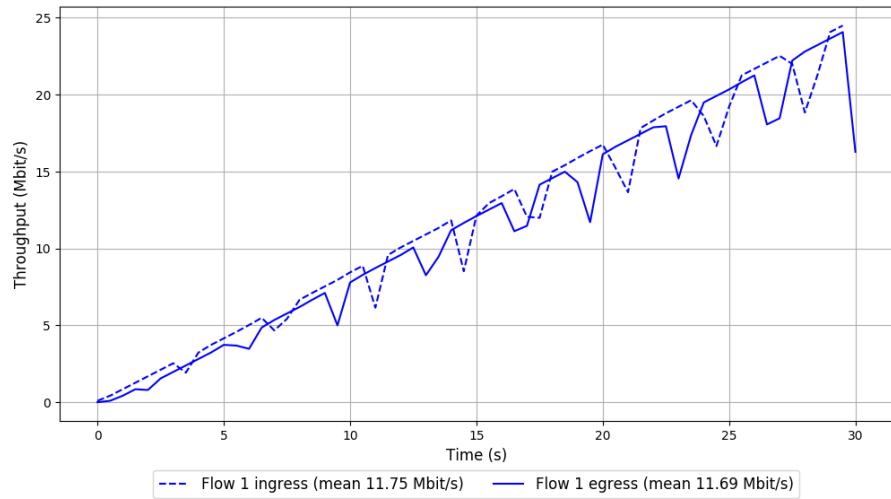


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-21 22:58:05
End at: 2019-01-21 22:58:35
Local clock offset: -0.686 ms
Remote clock offset: 3.514 ms

# Below is generated by plot.py at 2019-01-21 23:16:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 93.065 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 93.065 ms
Loss rate: 1.17%
```

Run 5: Report of LEDBAT — Data Link

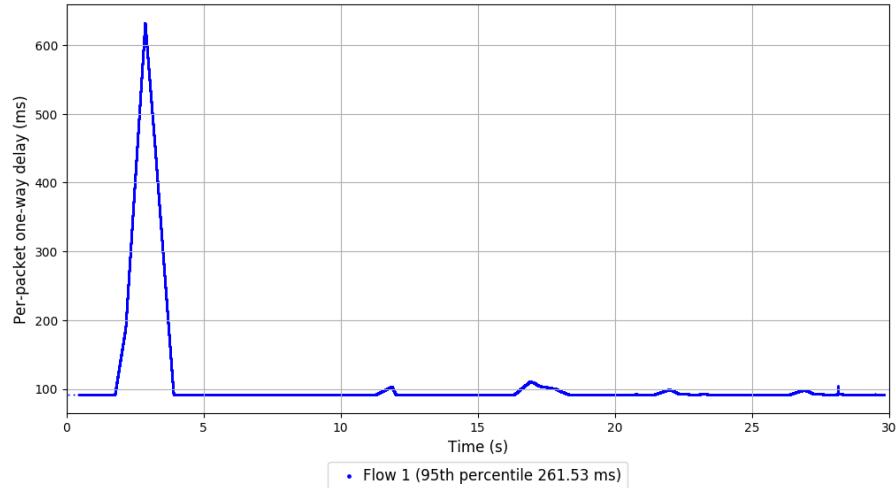
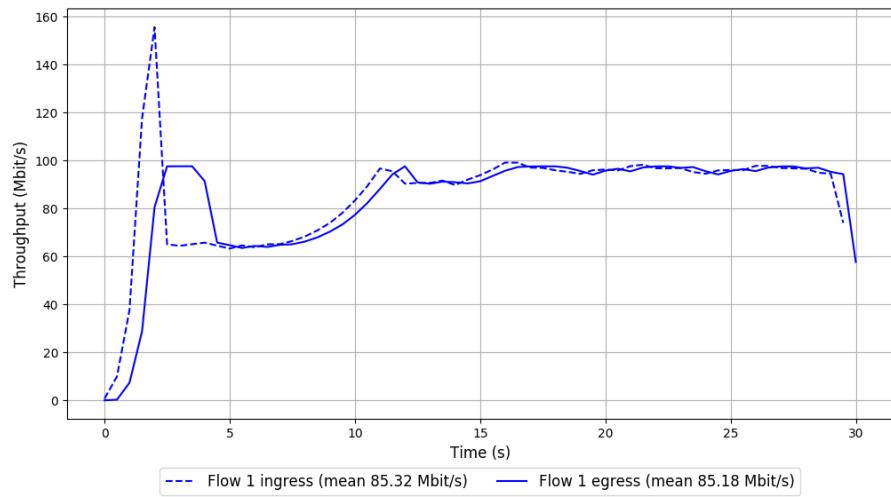


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-01-21 21:15:47
End at: 2019-01-21 21:16:17
Local clock offset: -6.107 ms
Remote clock offset: 4.037 ms

# Below is generated by plot.py at 2019-01-21 23:16:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.18 Mbit/s
95th percentile per-packet one-way delay: 261.530 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 85.18 Mbit/s
95th percentile per-packet one-way delay: 261.530 ms
Loss rate: 0.75%
```

Run 1: Report of PCC-Allegro — Data Link

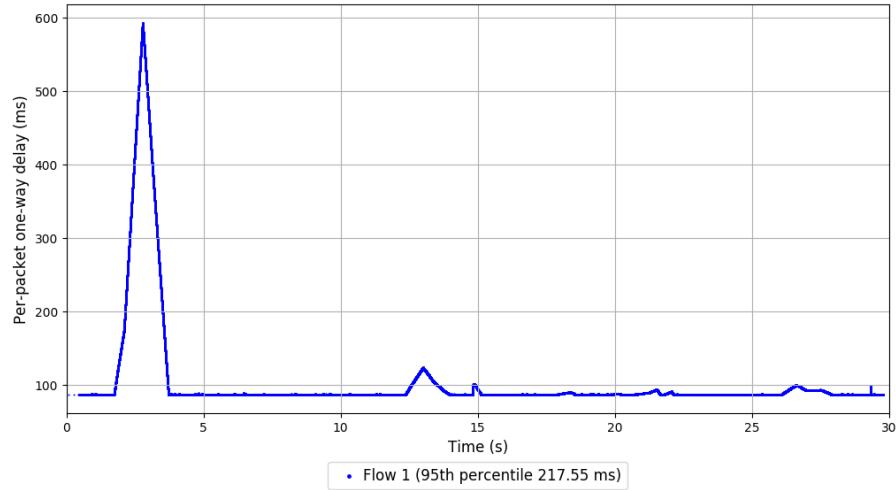
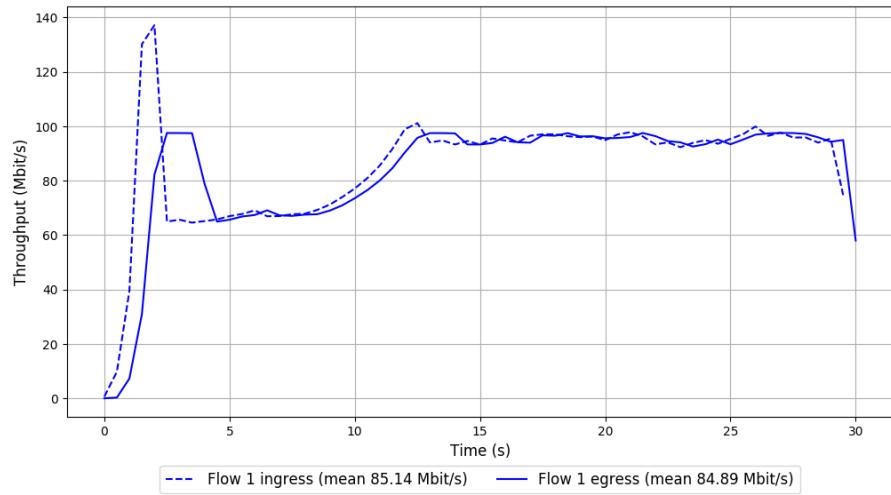


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-21 21:40:47
End at: 2019-01-21 21:41:17
Local clock offset: -5.86 ms
Remote clock offset: 6.478 ms

# Below is generated by plot.py at 2019-01-21 23:16:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.89 Mbit/s
95th percentile per-packet one-way delay: 217.552 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 84.89 Mbit/s
95th percentile per-packet one-way delay: 217.552 ms
Loss rate: 0.87%
```

Run 2: Report of PCC-Allegro — Data Link

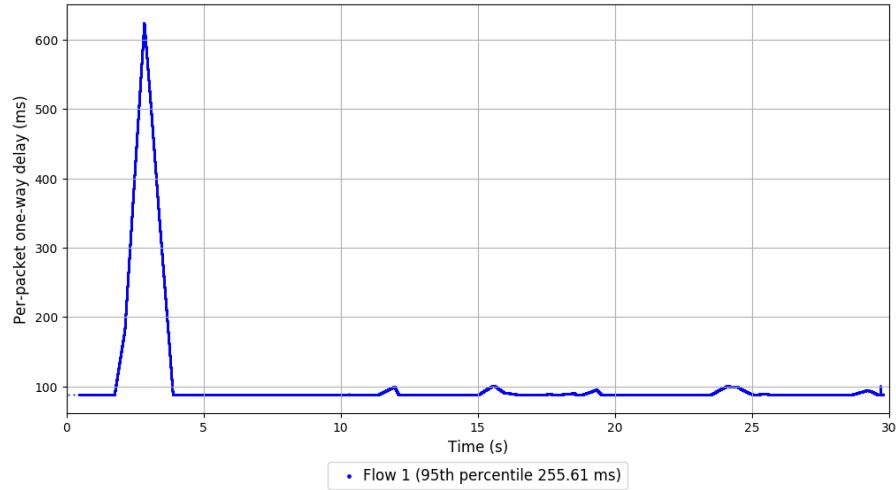
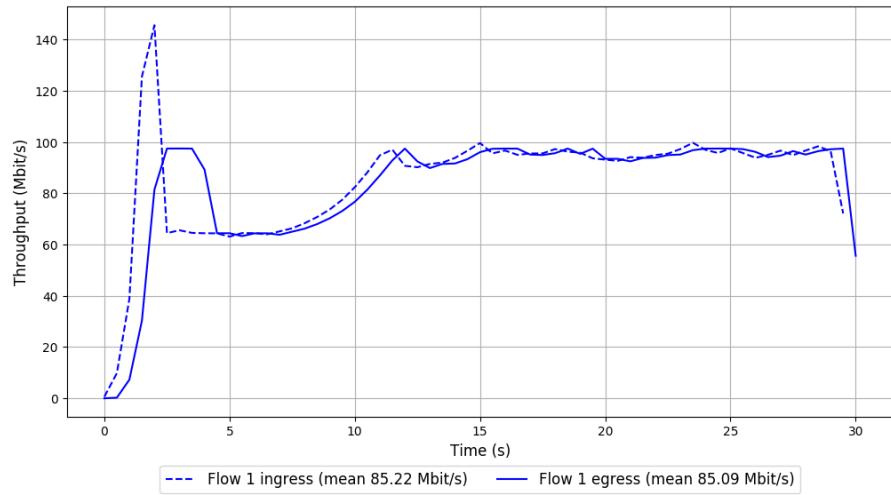


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-21 22:05:46
End at: 2019-01-21 22:06:16
Local clock offset: -7.341 ms
Remote clock offset: 5.047 ms

# Below is generated by plot.py at 2019-01-21 23:16:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.09 Mbit/s
95th percentile per-packet one-way delay: 255.612 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 85.09 Mbit/s
95th percentile per-packet one-way delay: 255.612 ms
Loss rate: 0.74%
```

Run 3: Report of PCC-Allegro — Data Link

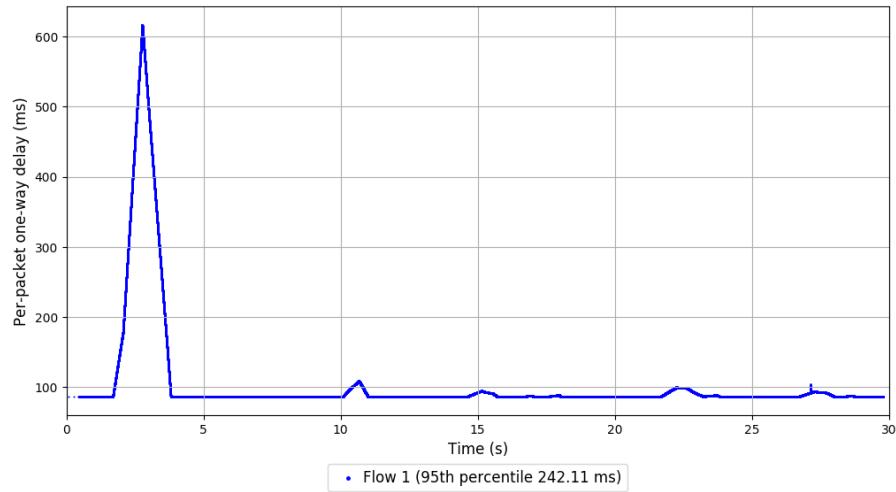
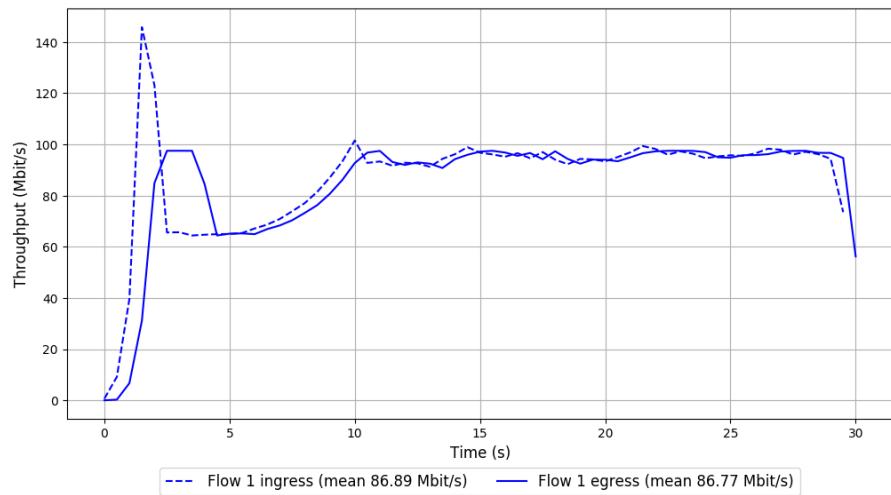


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-21 22:30:45
End at: 2019-01-21 22:31:15
Local clock offset: -1.664 ms
Remote clock offset: 7.56 ms

# Below is generated by plot.py at 2019-01-21 23:16:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.77 Mbit/s
95th percentile per-packet one-way delay: 242.108 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 86.77 Mbit/s
95th percentile per-packet one-way delay: 242.108 ms
Loss rate: 0.72%
```

Run 4: Report of PCC-Allegro — Data Link

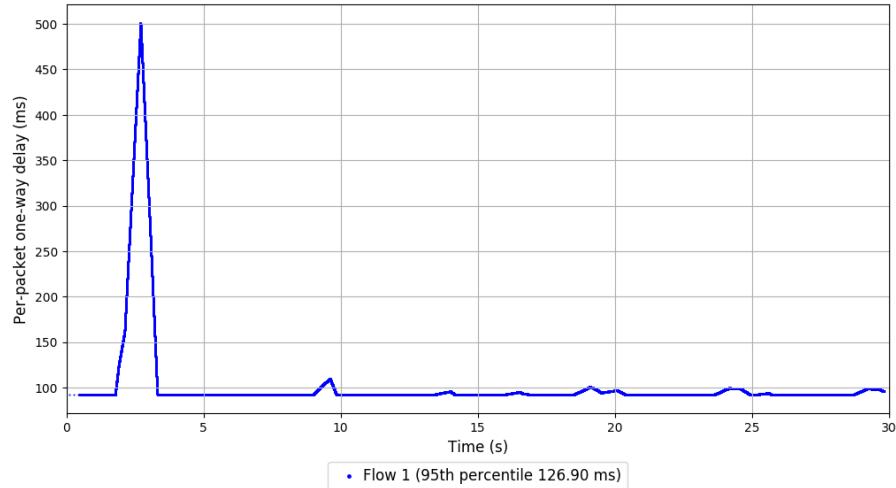
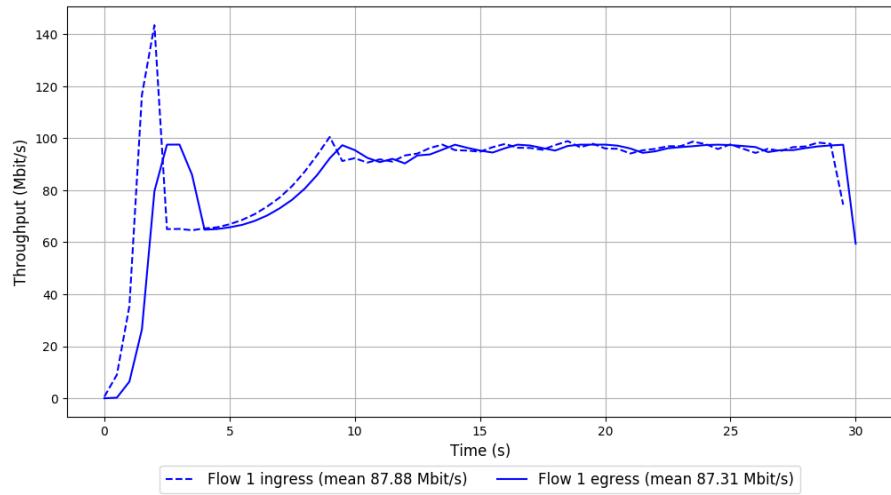


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-21 22:55:43
End at: 2019-01-21 22:56:13
Local clock offset: -0.67 ms
Remote clock offset: 2.305 ms

# Below is generated by plot.py at 2019-01-21 23:16:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.31 Mbit/s
95th percentile per-packet one-way delay: 126.904 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 87.31 Mbit/s
95th percentile per-packet one-way delay: 126.904 ms
Loss rate: 1.22%
```

Run 5: Report of PCC-Allegro — Data Link

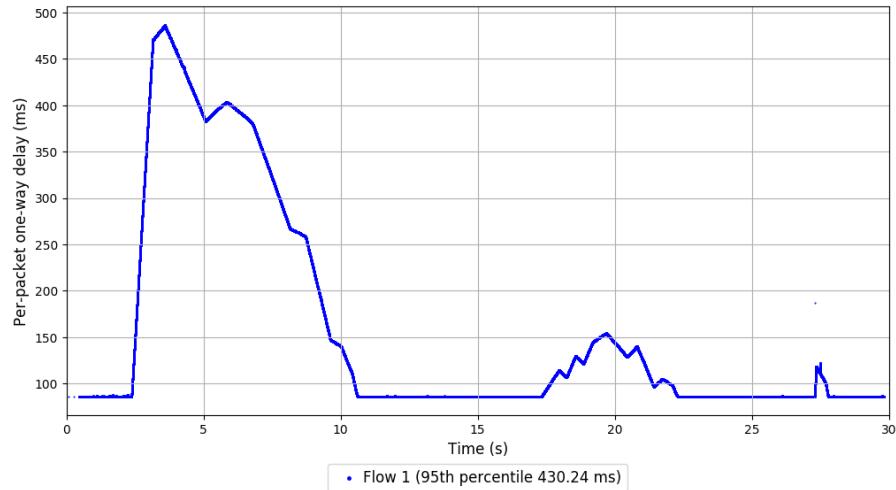
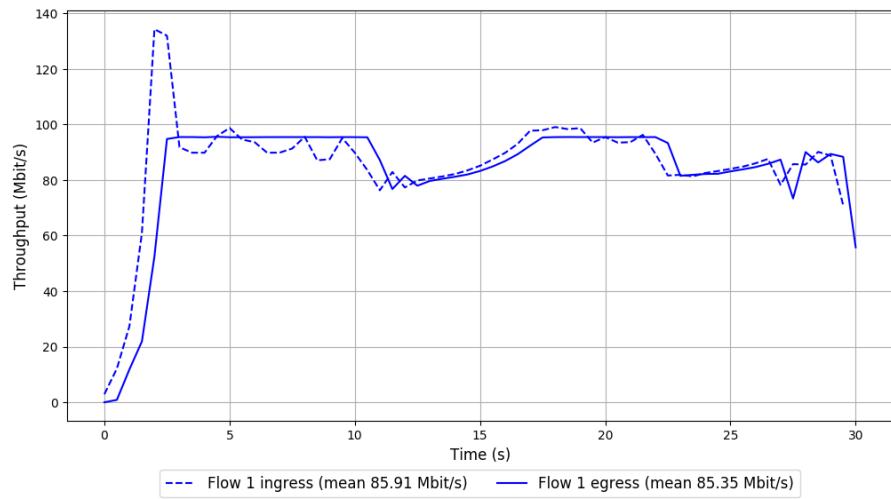


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-21 21:21:41
End at: 2019-01-21 21:22:11
Local clock offset: -5.955 ms
Remote clock offset: 9.373 ms

# Below is generated by plot.py at 2019-01-21 23:17:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.35 Mbit/s
95th percentile per-packet one-way delay: 430.243 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 85.35 Mbit/s
95th percentile per-packet one-way delay: 430.243 ms
Loss rate: 1.22%
```

Run 1: Report of PCC-Expr — Data Link

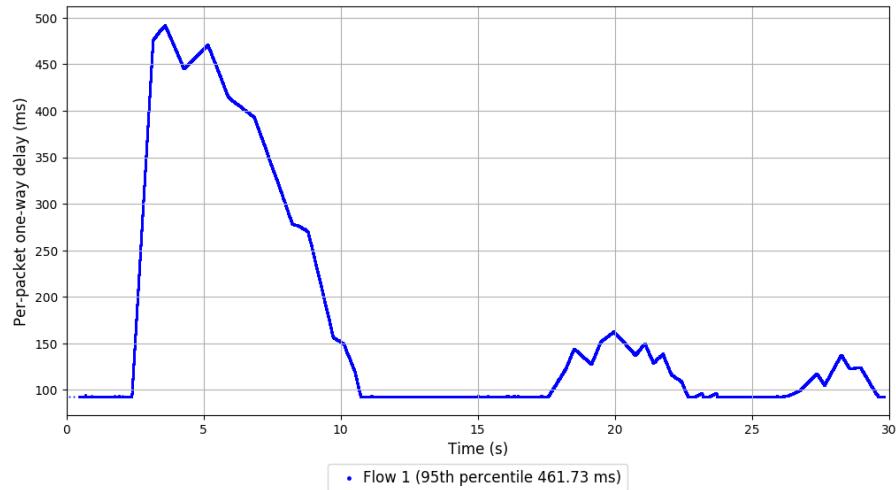
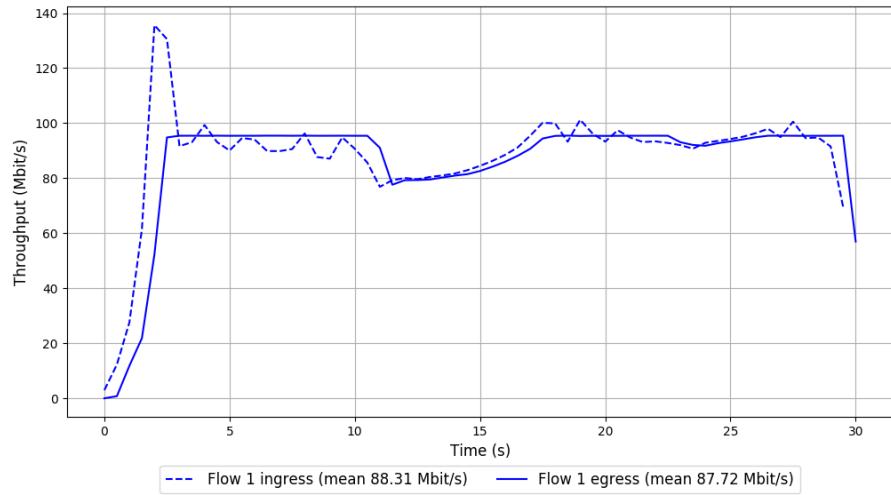


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-21 21:46:39
End at: 2019-01-21 21:47:09
Local clock offset: -6.019 ms
Remote clock offset: 1.263 ms

# Below is generated by plot.py at 2019-01-21 23:18:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.72 Mbit/s
95th percentile per-packet one-way delay: 461.727 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 87.72 Mbit/s
95th percentile per-packet one-way delay: 461.727 ms
Loss rate: 1.24%
```

Run 2: Report of PCC-Expr — Data Link

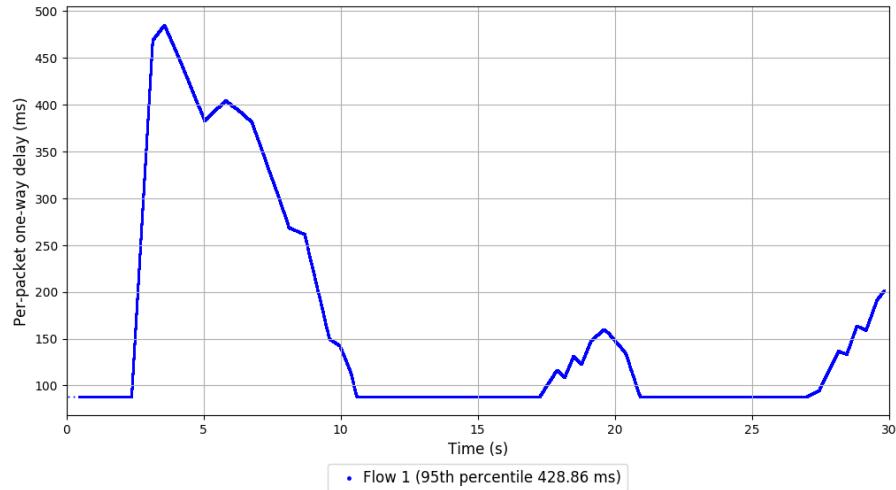
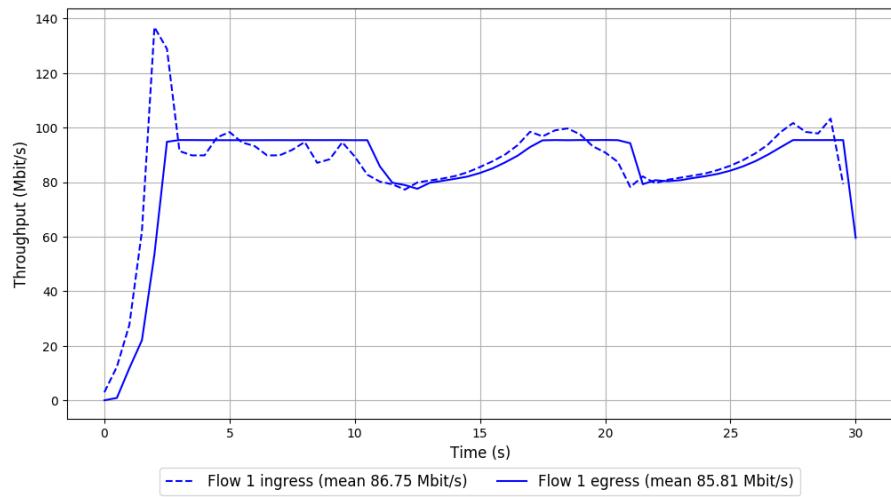


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-21 22:11:39
End at: 2019-01-21 22:12:09
Local clock offset: -6.749 ms
Remote clock offset: 5.197 ms

# Below is generated by plot.py at 2019-01-21 23:18:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.81 Mbit/s
95th percentile per-packet one-way delay: 428.862 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 85.81 Mbit/s
95th percentile per-packet one-way delay: 428.862 ms
Loss rate: 1.66%
```

Run 3: Report of PCC-Expr — Data Link

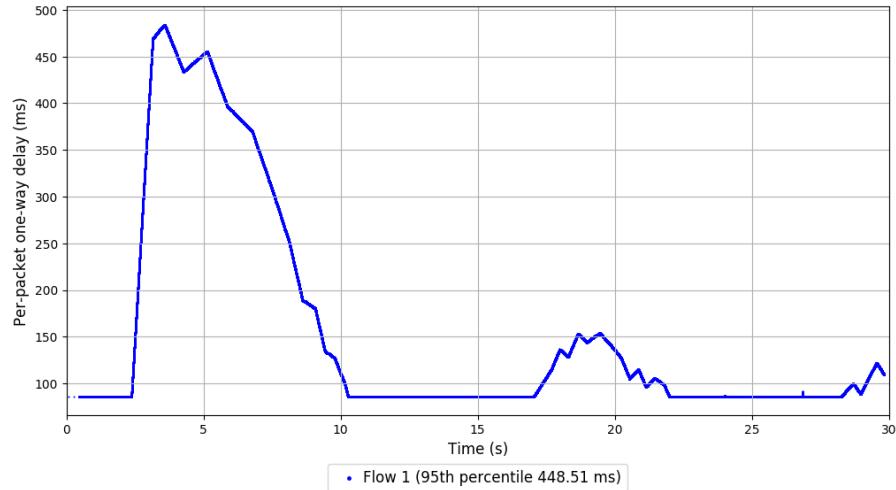
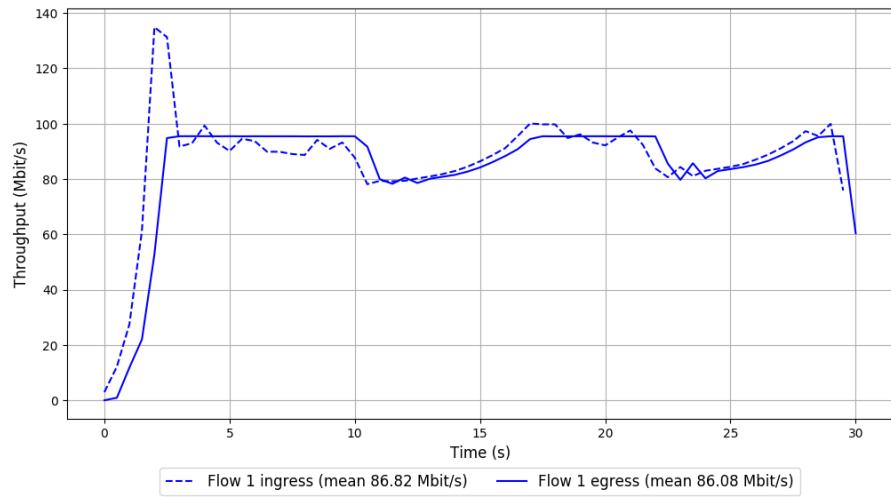


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-21 22:36:38
End at: 2019-01-21 22:37:08
Local clock offset: -0.839 ms
Remote clock offset: 7.882 ms

# Below is generated by plot.py at 2019-01-21 23:18:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.08 Mbit/s
95th percentile per-packet one-way delay: 448.514 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 86.08 Mbit/s
95th percentile per-packet one-way delay: 448.514 ms
Loss rate: 1.43%
```

Run 4: Report of PCC-Expr — Data Link

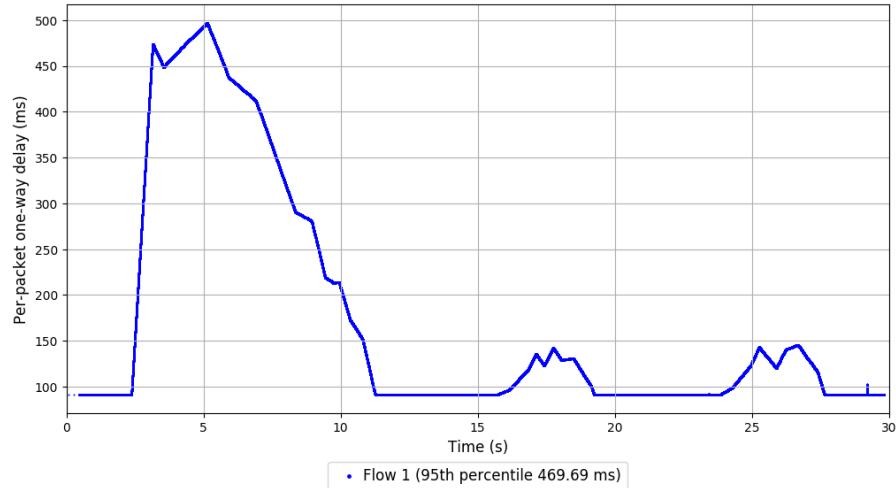
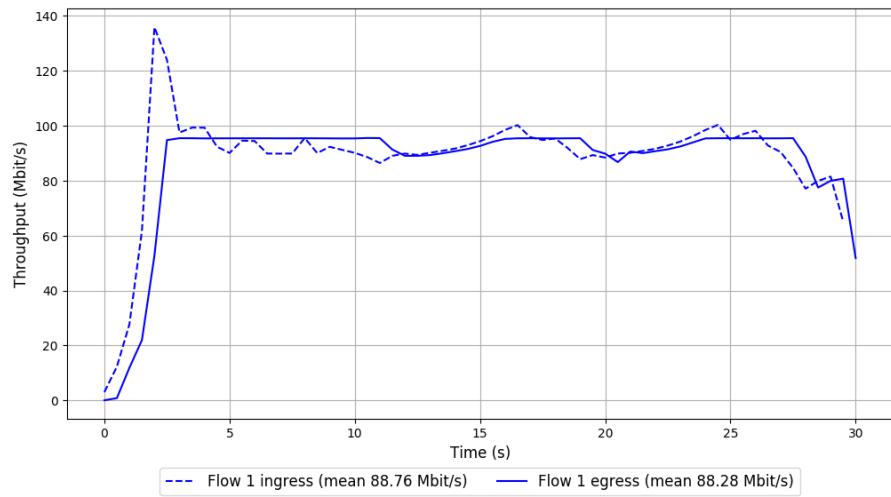


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-21 23:01:38
End at: 2019-01-21 23:02:08
Local clock offset: -1.512 ms
Remote clock offset: 2.54 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 469.693 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 469.693 ms
Loss rate: 1.12%
```

Run 5: Report of PCC-Expr — Data Link

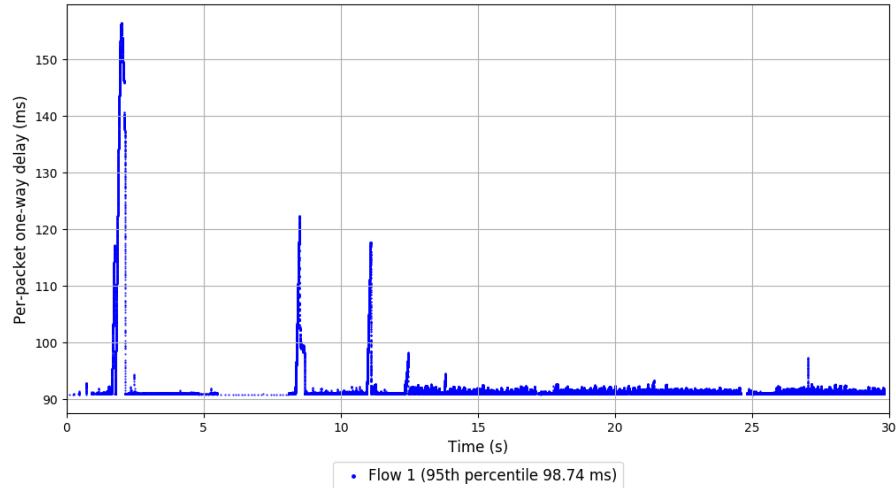
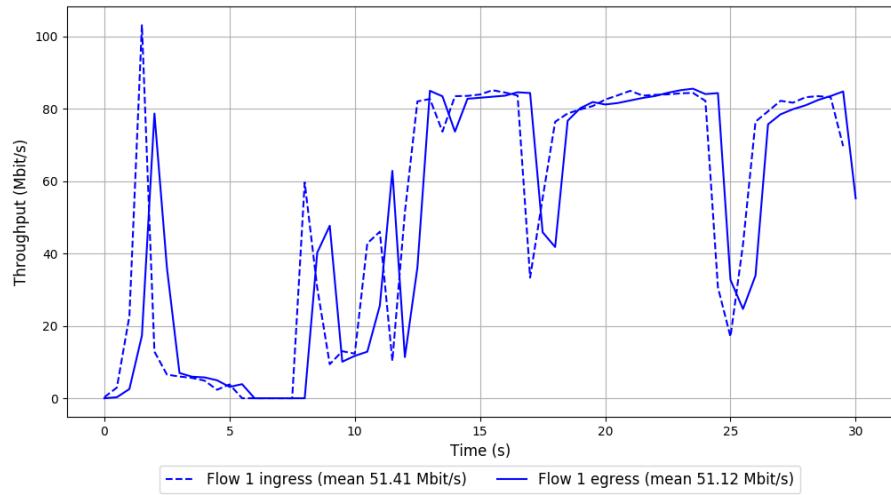


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-01-21 21:14:36
End at: 2019-01-21 21:15:06
Local clock offset: -6.156 ms
Remote clock offset: 4.133 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.12 Mbit/s
95th percentile per-packet one-way delay: 98.739 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 51.12 Mbit/s
95th percentile per-packet one-way delay: 98.739 ms
Loss rate: 1.14%
```

Run 1: Report of QUIC Cubic — Data Link

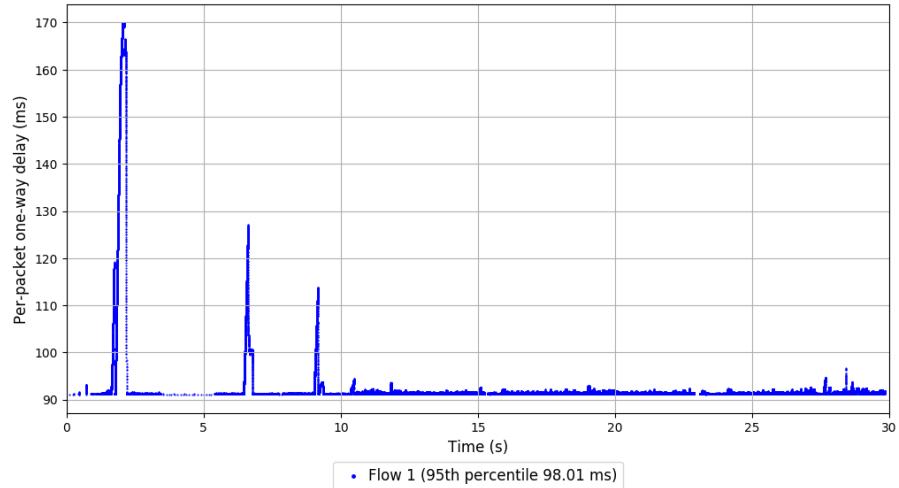
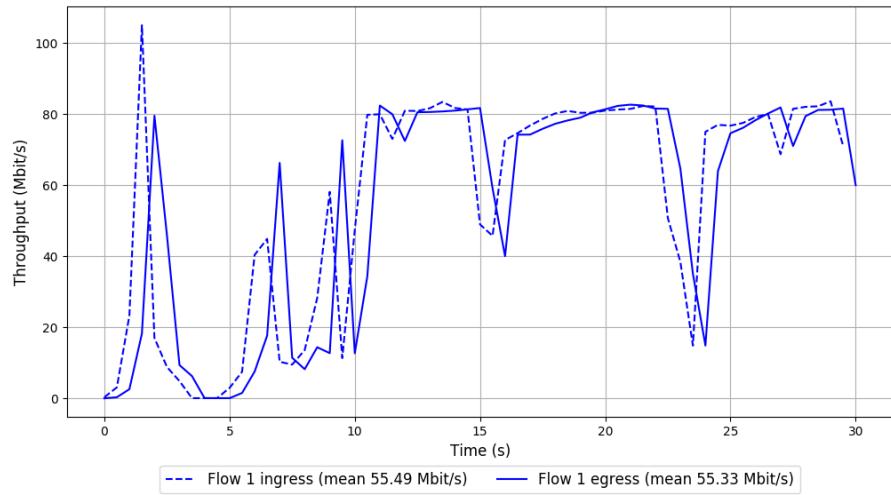


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-21 21:39:36
End at: 2019-01-21 21:40:06
Local clock offset: -6.613 ms
Remote clock offset: 2.418 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.33 Mbit/s
95th percentile per-packet one-way delay: 98.013 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 55.33 Mbit/s
95th percentile per-packet one-way delay: 98.013 ms
Loss rate: 0.86%
```

Run 2: Report of QUIC Cubic — Data Link

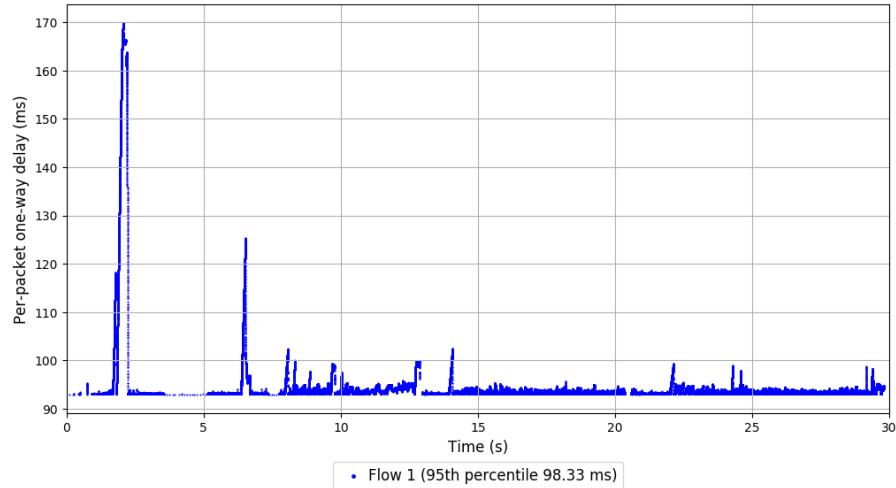
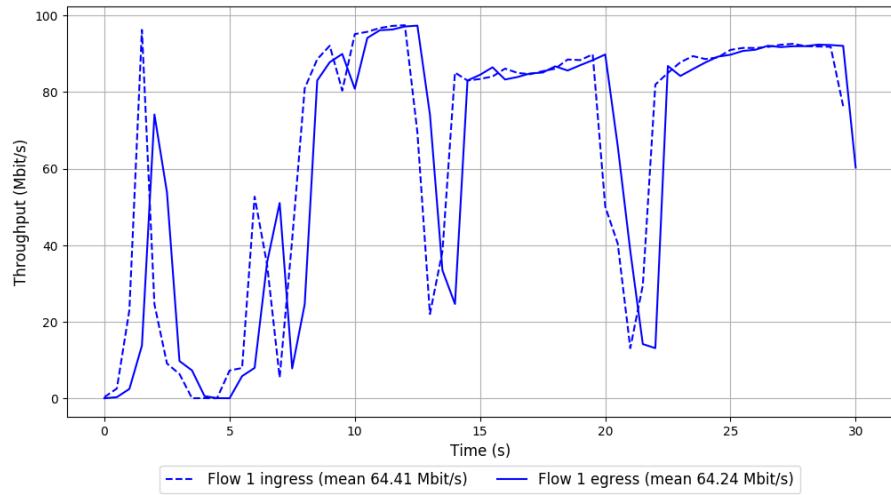


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-21 22:04:35
End at: 2019-01-21 22:05:05
Local clock offset: -7.315 ms
Remote clock offset: 5.944 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.24 Mbit/s
95th percentile per-packet one-way delay: 98.327 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 64.24 Mbit/s
95th percentile per-packet one-way delay: 98.327 ms
Loss rate: 0.86%
```

Run 3: Report of QUIC Cubic — Data Link

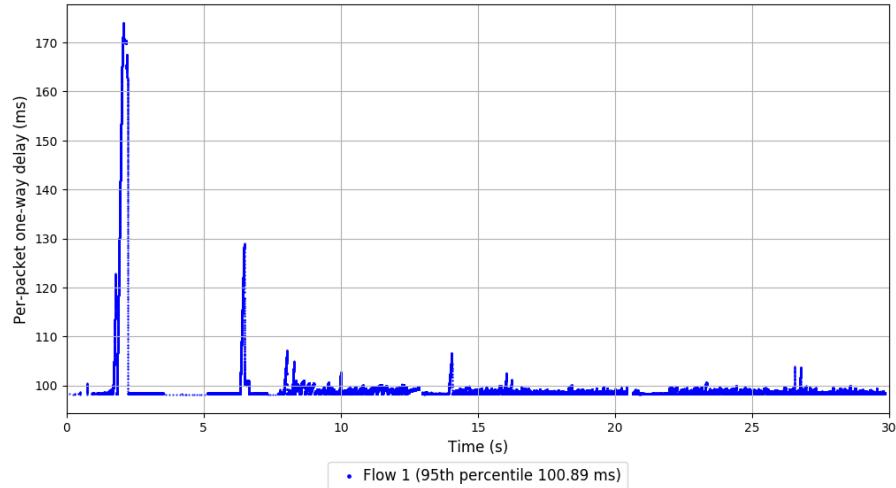
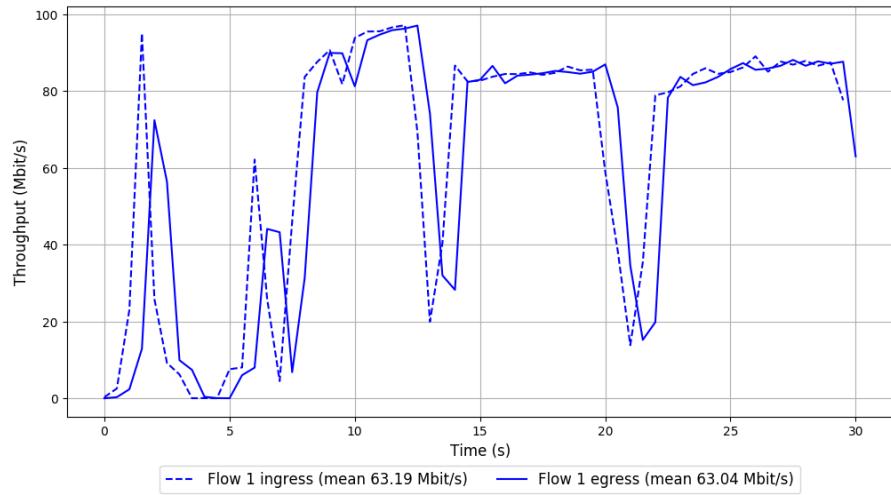


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-21 22:29:34
End at: 2019-01-21 22:30:04
Local clock offset: -1.894 ms
Remote clock offset: 1.532 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.04 Mbit/s
95th percentile per-packet one-way delay: 100.891 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 63.04 Mbit/s
95th percentile per-packet one-way delay: 100.891 ms
Loss rate: 0.83%
```

Run 4: Report of QUIC Cubic — Data Link

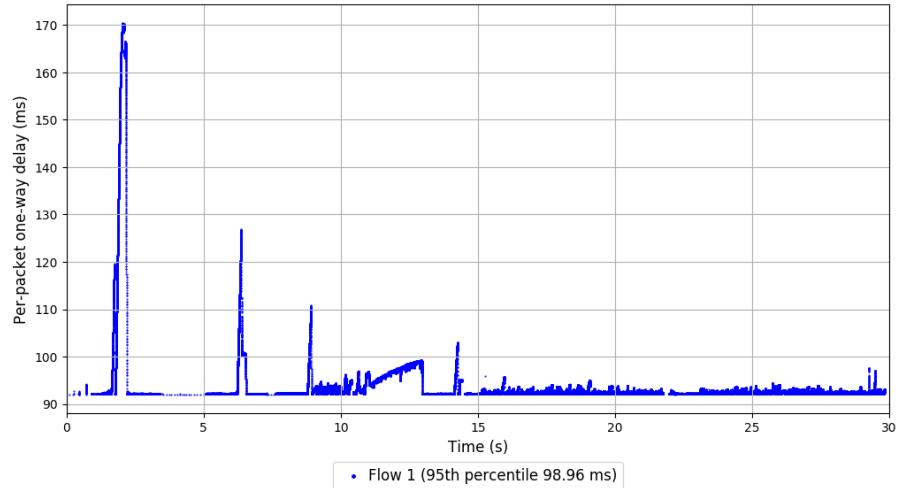
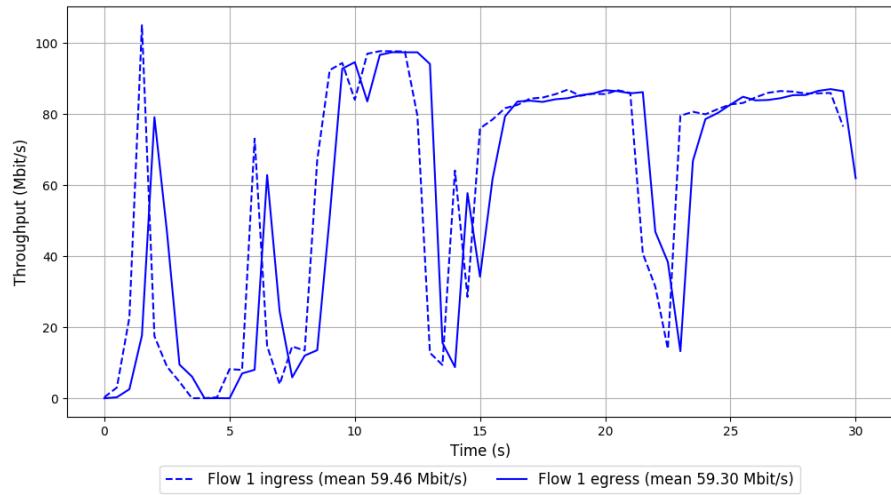


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-21 22:54:33
End at: 2019-01-21 22:55:03
Local clock offset: -0.635 ms
Remote clock offset: 2.341 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.30 Mbit/s
95th percentile per-packet one-way delay: 98.964 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 59.30 Mbit/s
95th percentile per-packet one-way delay: 98.964 ms
Loss rate: 0.85%
```

Run 5: Report of QUIC Cubic — Data Link

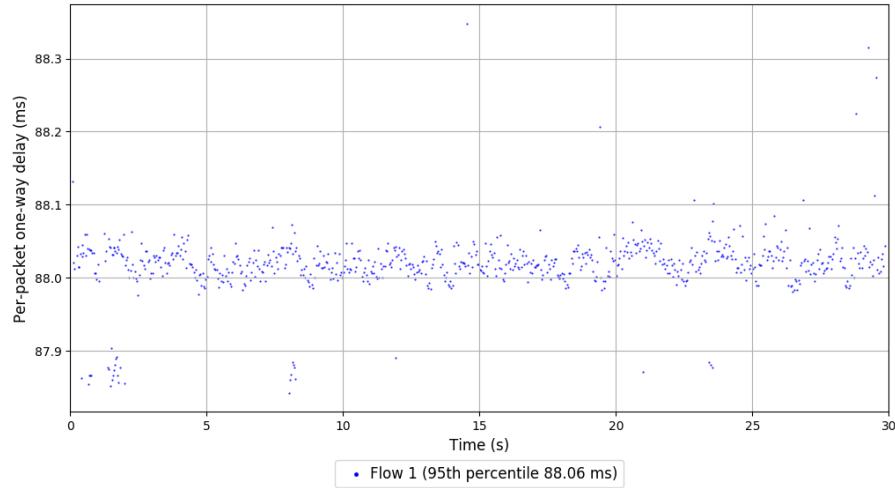
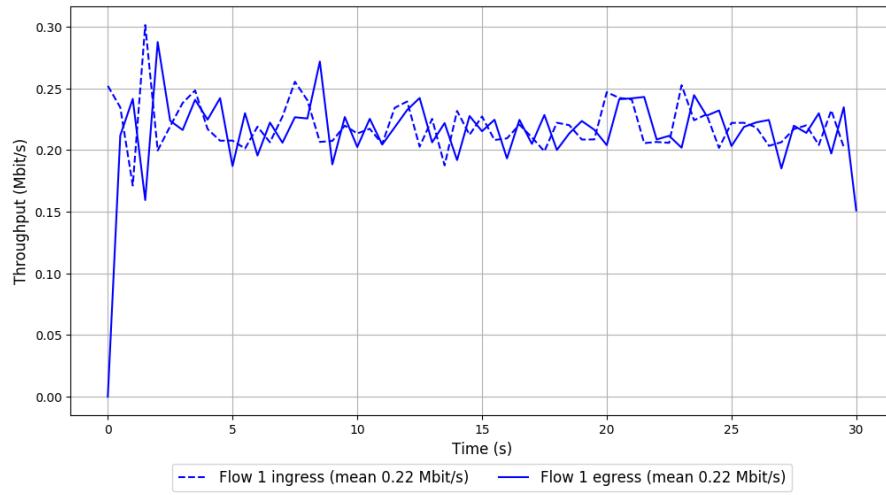


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-01-21 21:25:17
End at: 2019-01-21 21:25:47
Local clock offset: -6.591 ms
Remote clock offset: 7.252 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.056 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.056 ms
Loss rate: 0.64%
```

Run 1: Report of SCReAM — Data Link

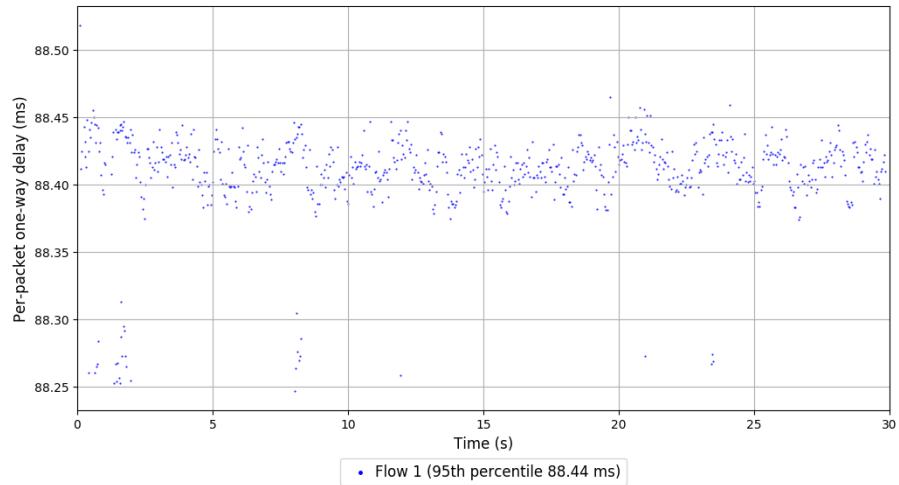
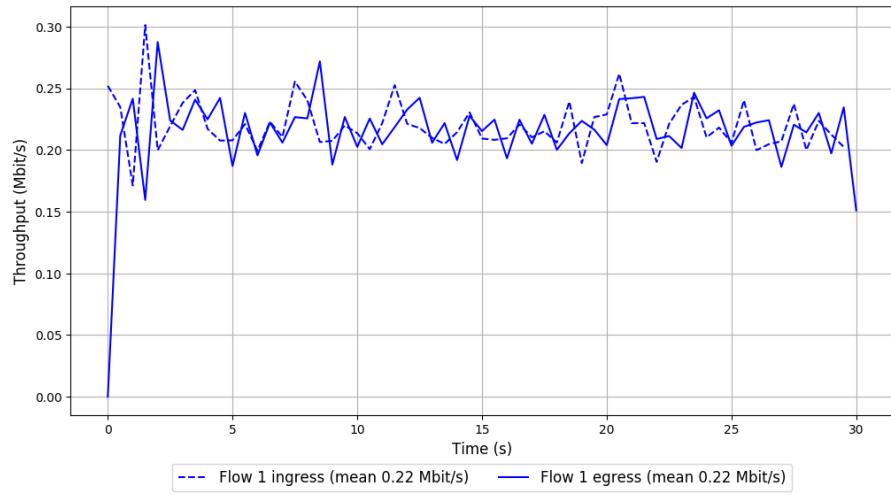


Run 2: Statistics of SCReAM

```
Start at: 2019-01-21 21:50:16
End at: 2019-01-21 21:50:46
Local clock offset: -6.125 ms
Remote clock offset: 4.912 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.441 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.441 ms
Loss rate: 0.64%
```

Run 2: Report of SCReAM — Data Link

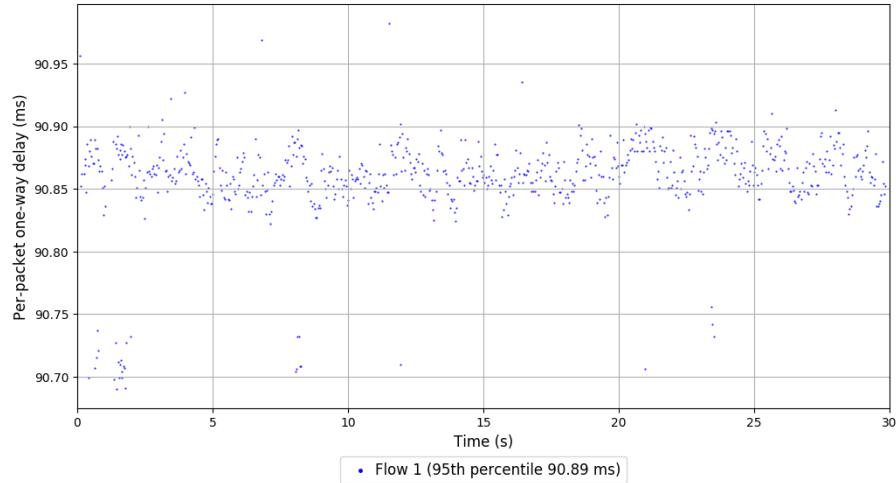
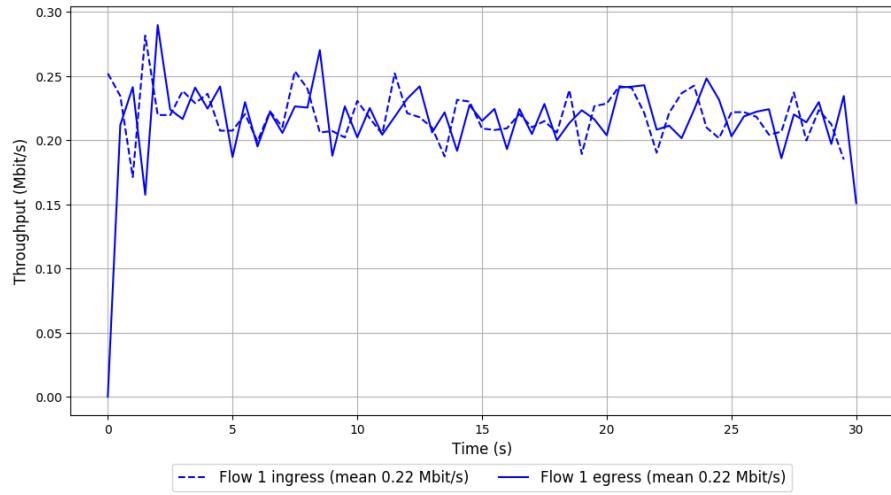


Run 3: Statistics of SCReAM

```
Start at: 2019-01-21 22:15:16
End at: 2019-01-21 22:15:46
Local clock offset: -7.537 ms
Remote clock offset: 2.464 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.895 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.895 ms
Loss rate: 0.51%
```

Run 3: Report of SCReAM — Data Link

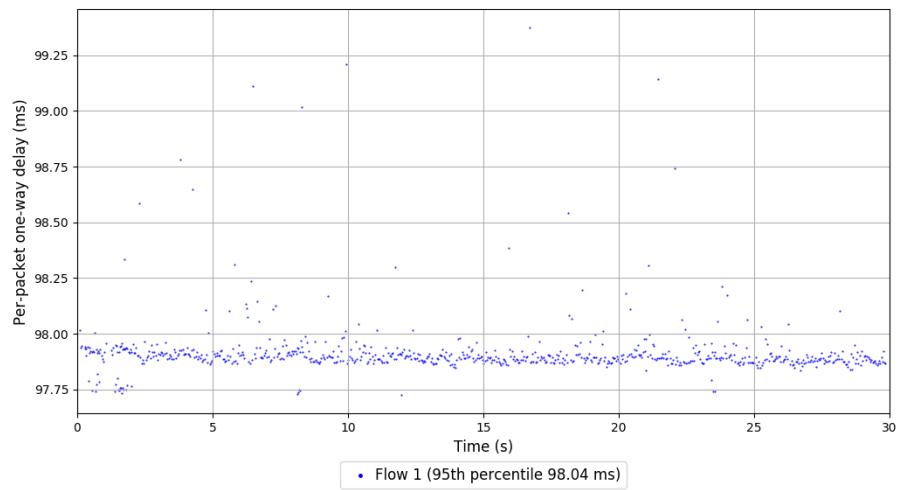
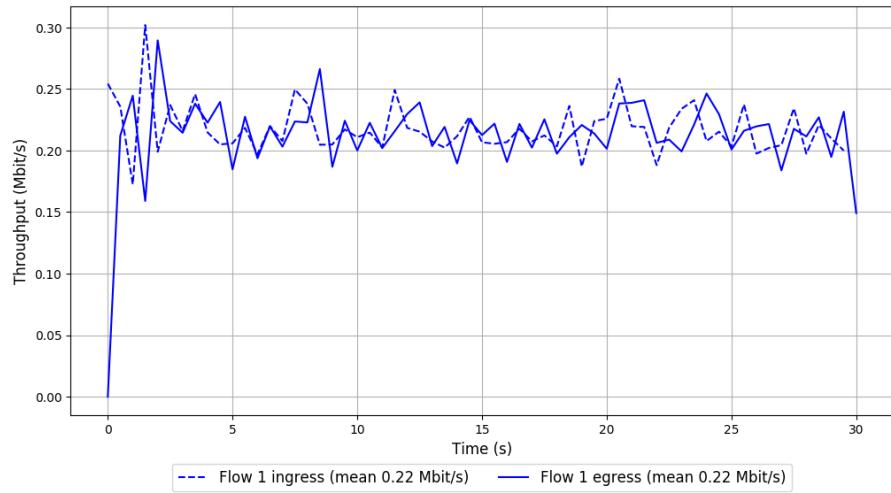


Run 4: Statistics of SCReAM

```
Start at: 2019-01-21 22:40:15
End at: 2019-01-21 22:40:45
Local clock offset: -1.207 ms
Remote clock offset: 1.843 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.043 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.043 ms
Loss rate: 0.64%
```

Run 4: Report of SCReAM — Data Link

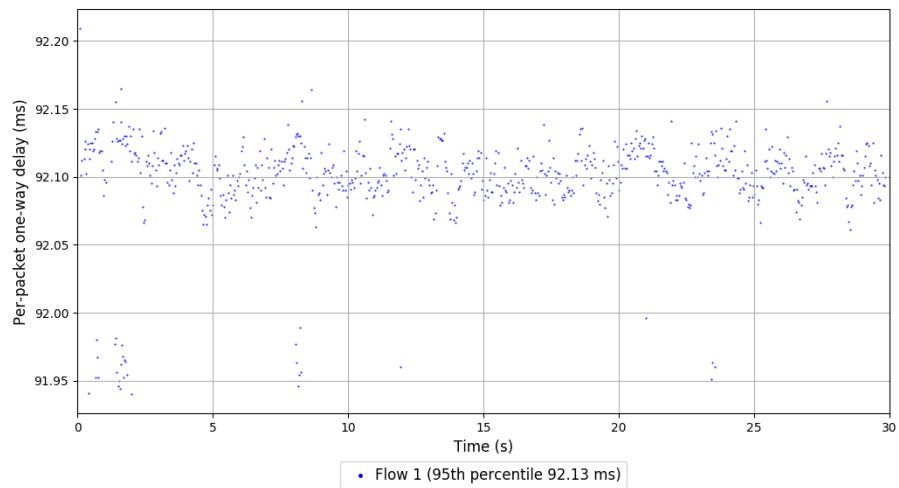
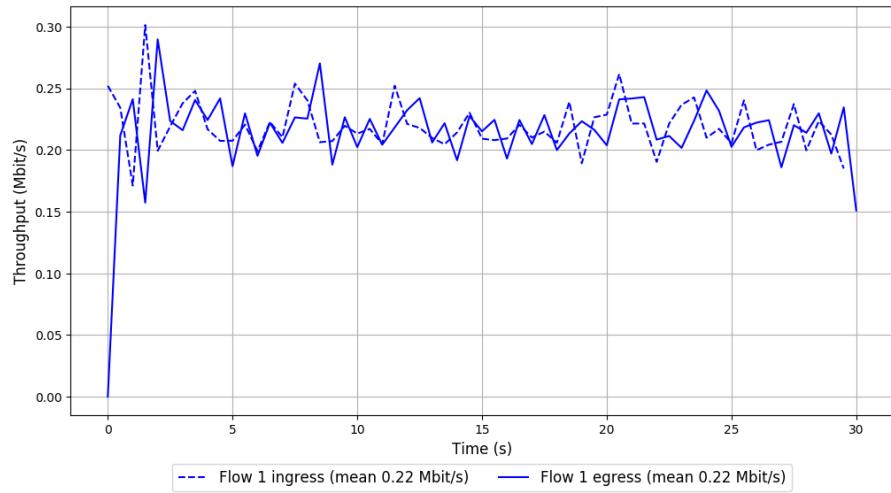


Run 5: Statistics of SCReAM

```
Start at: 2019-01-21 23:05:14
End at: 2019-01-21 23:05:44
Local clock offset: -0.651 ms
Remote clock offset: 2.555 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.131 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.131 ms
Loss rate: 0.51%
```

Run 5: Report of SCReAM — Data Link

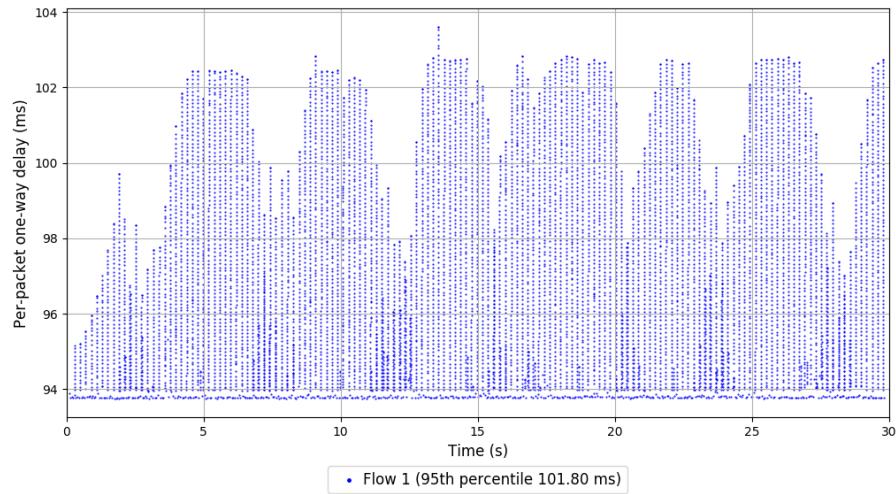
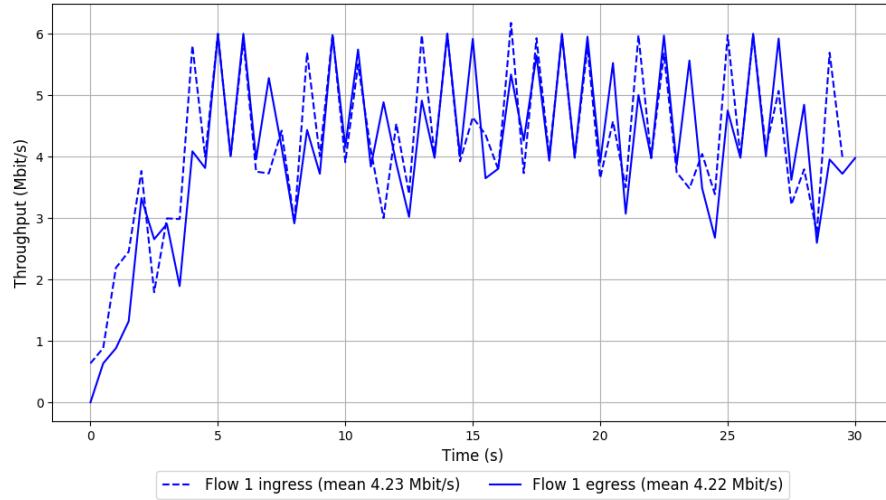


Run 1: Statistics of Sprout

```
Start at: 2019-01-21 21:22:55
End at: 2019-01-21 21:23:25
Local clock offset: -5.908 ms
Remote clock offset: 7.88 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 101.801 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 101.801 ms
Loss rate: 0.79%
```

Run 1: Report of Sprout — Data Link

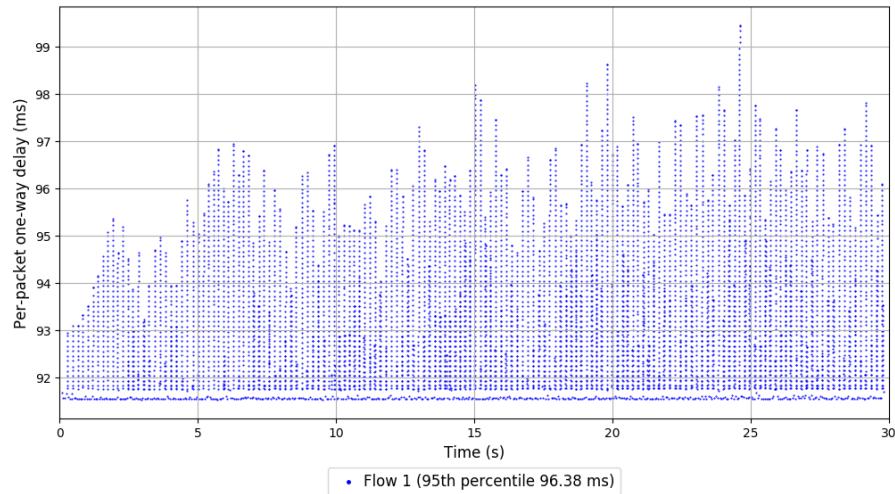
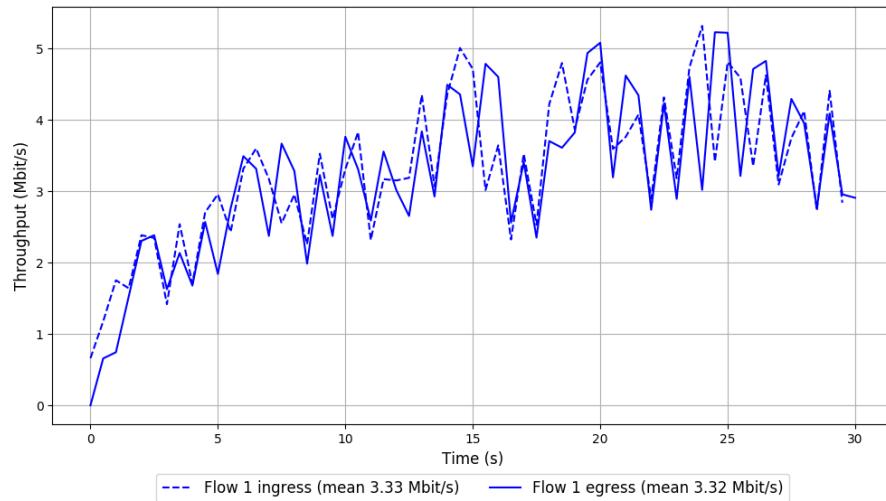


Run 2: Statistics of Sprout

```
Start at: 2019-01-21 21:47:54
End at: 2019-01-21 21:48:24
Local clock offset: -6.023 ms
Remote clock offset: 2.261 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 96.380 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 96.380 ms
Loss rate: 0.70%
```

Run 2: Report of Sprout — Data Link

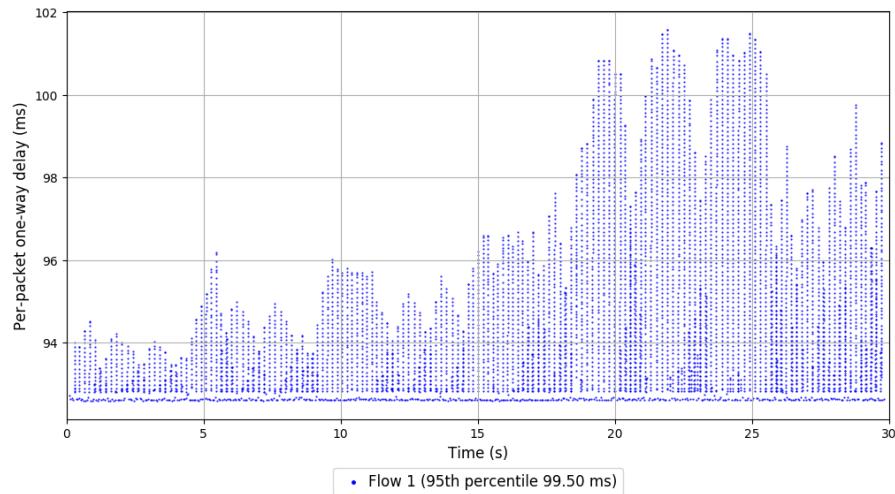
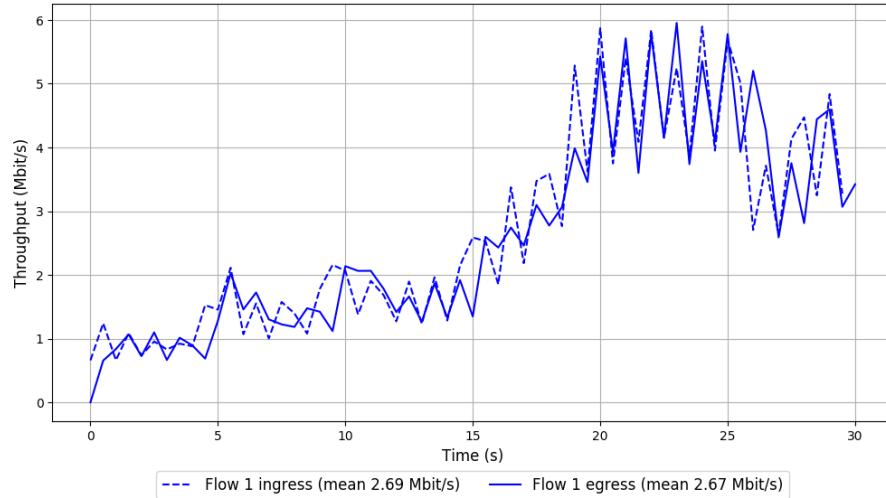


Run 3: Statistics of Sprout

```
Start at: 2019-01-21 22:12:54
End at: 2019-01-21 22:13:24
Local clock offset: -6.765 ms
Remote clock offset: 1.269 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 99.497 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 99.497 ms
Loss rate: 1.01%
```

Run 3: Report of Sprout — Data Link

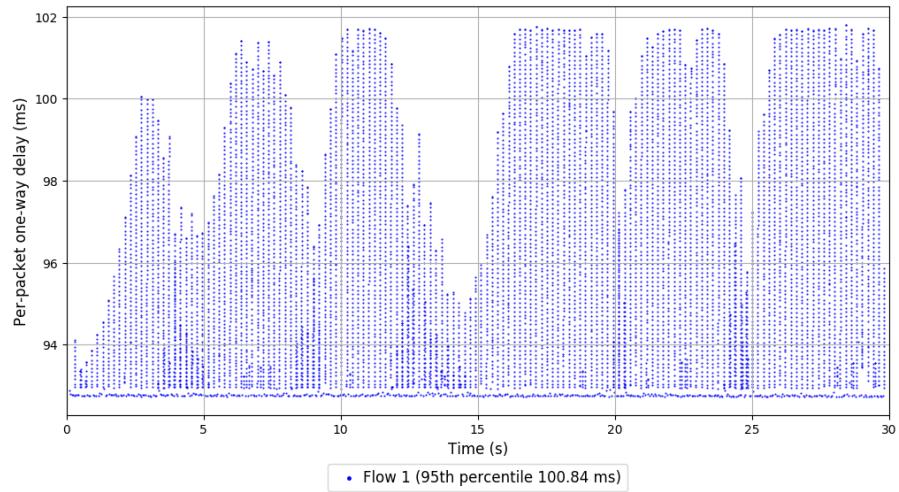
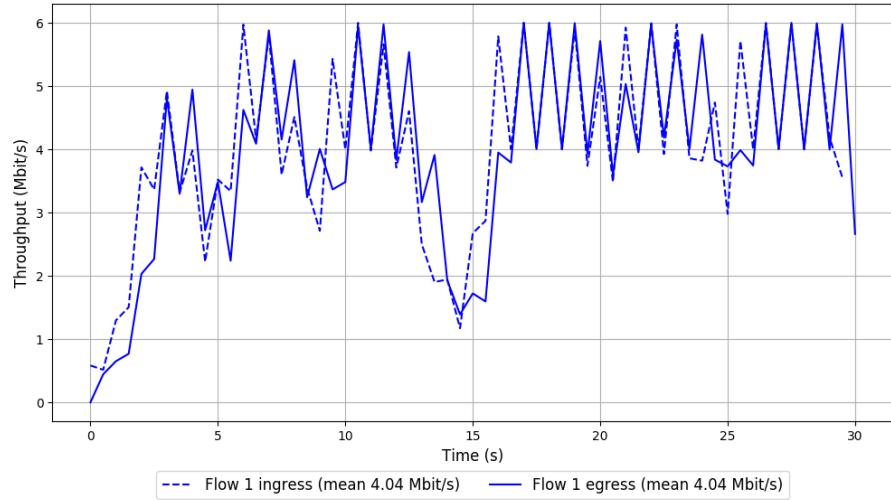


Run 4: Statistics of Sprout

```
Start at: 2019-01-21 22:37:53
End at: 2019-01-21 22:38:23
Local clock offset: -1.454 ms
Remote clock offset: 6.678 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 100.836 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 100.836 ms
Loss rate: 0.45%
```

Run 4: Report of Sprout — Data Link

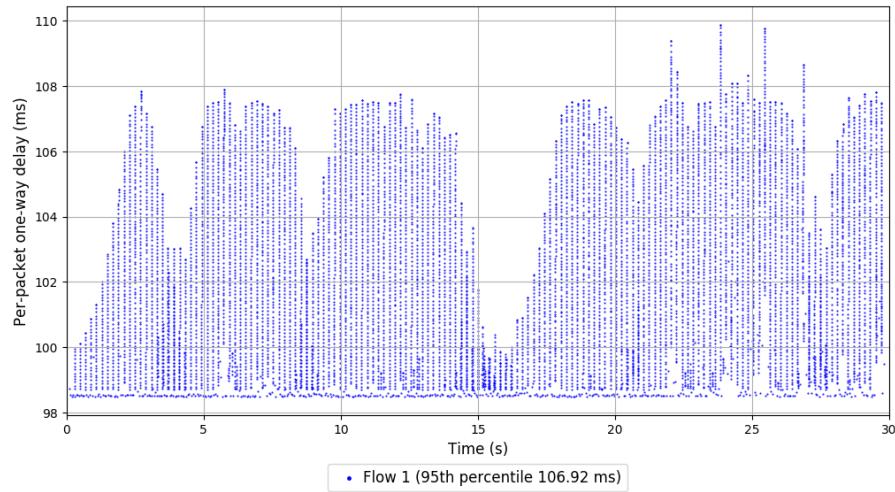
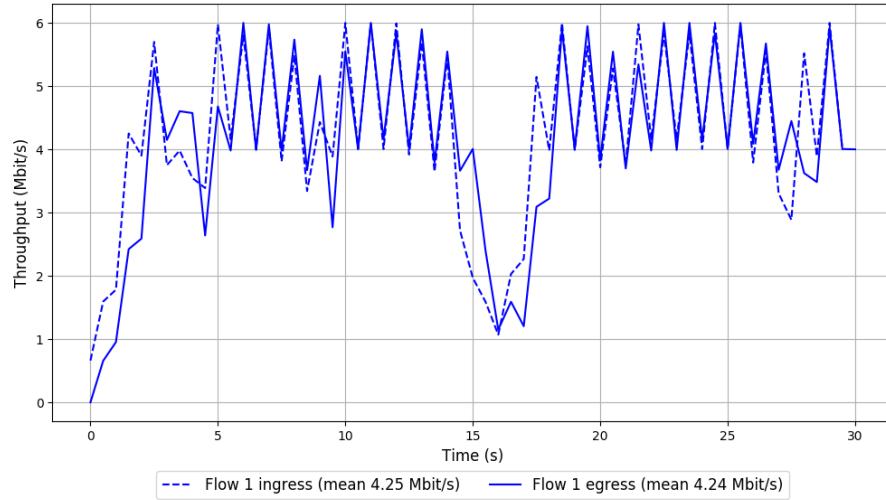


Run 5: Statistics of Sprout

```
Start at: 2019-01-21 23:02:52
End at: 2019-01-21 23:03:22
Local clock offset: -0.688 ms
Remote clock offset: 2.48 ms

# Below is generated by plot.py at 2019-01-21 23:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 106.921 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 106.921 ms
Loss rate: 0.79%
```

Run 5: Report of Sprout — Data Link

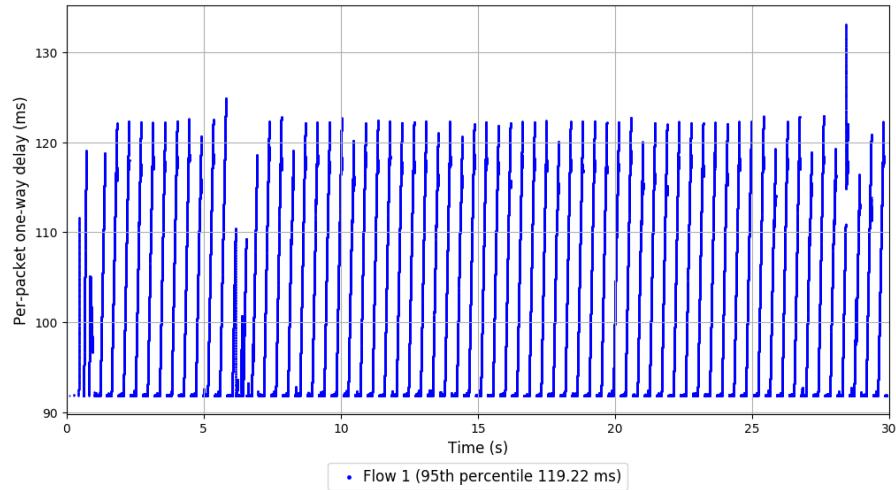
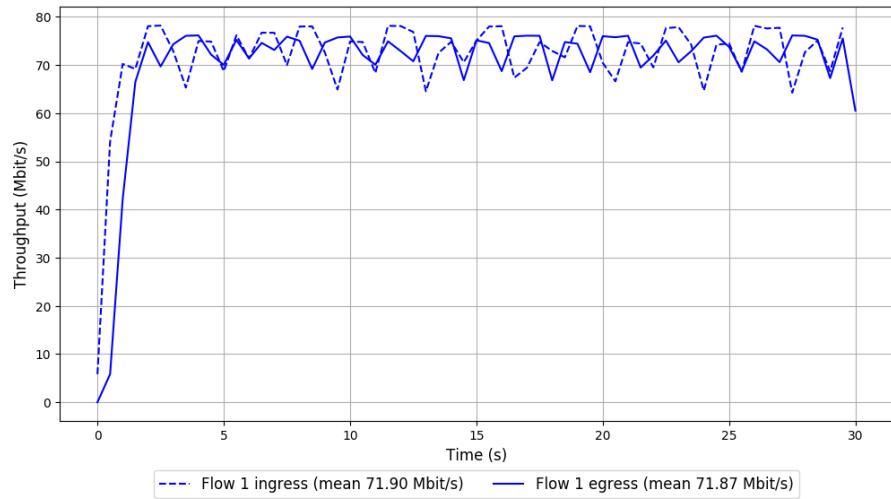


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-21 21:24:03
End at: 2019-01-21 21:24:33
Local clock offset: -6.66 ms
Remote clock offset: 3.341 ms

# Below is generated by plot.py at 2019-01-21 23:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.87 Mbit/s
95th percentile per-packet one-way delay: 119.225 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 71.87 Mbit/s
95th percentile per-packet one-way delay: 119.225 ms
Loss rate: 0.63%
```

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

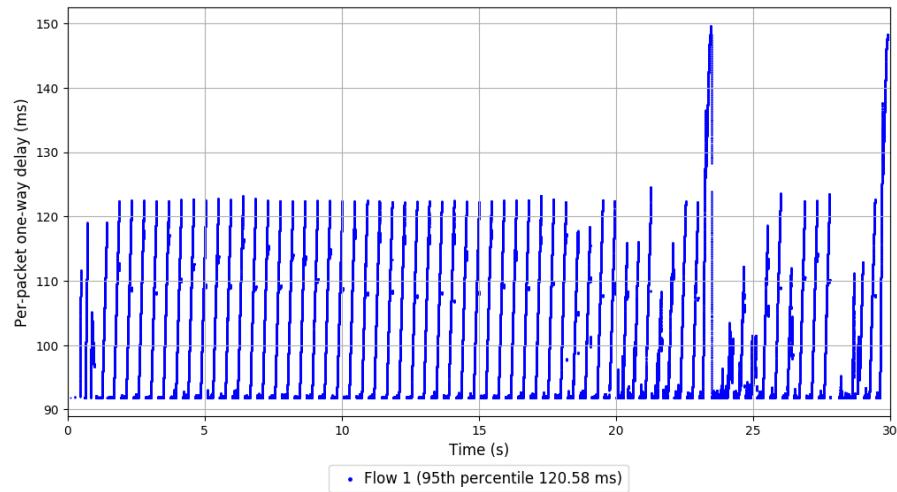
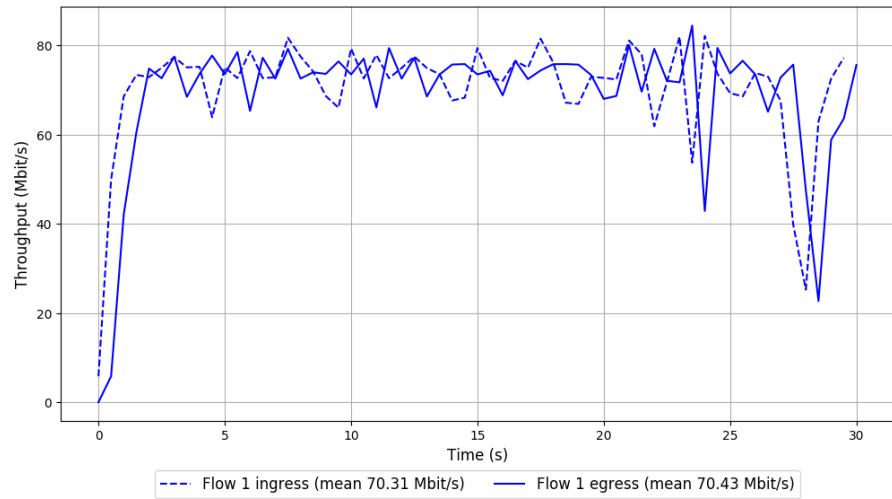


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-21 21:49:02
End at: 2019-01-21 21:49:32
Local clock offset: -6.852 ms
Remote clock offset: 7.206 ms

# Below is generated by plot.py at 2019-01-21 23:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.43 Mbit/s
95th percentile per-packet one-way delay: 120.583 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 70.43 Mbit/s
95th percentile per-packet one-way delay: 120.583 ms
Loss rate: 0.43%
```

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

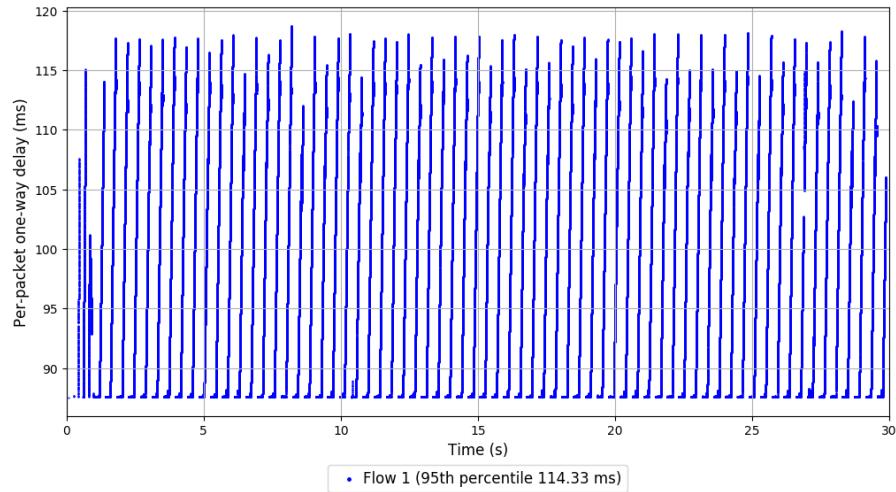
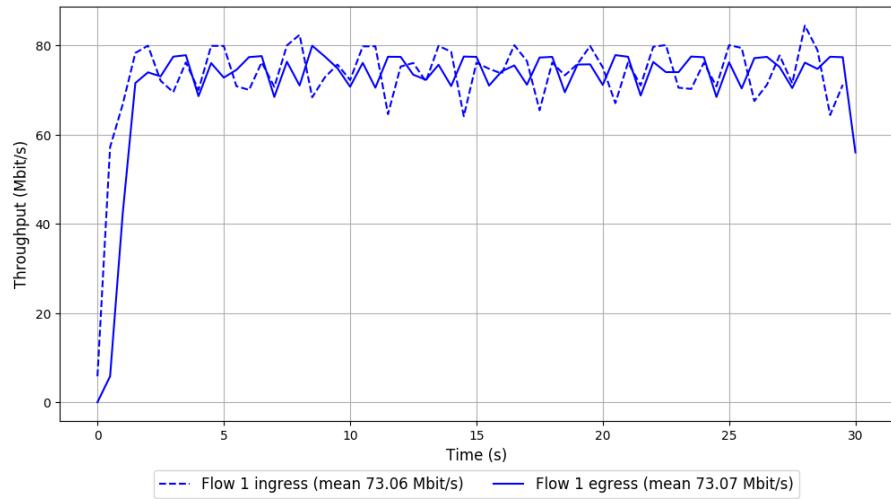


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-21 22:14:02
End at: 2019-01-21 22:14:32
Local clock offset: -7.584 ms
Remote clock offset: 5.015 ms

# Below is generated by plot.py at 2019-01-21 23:19:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.07 Mbit/s
95th percentile per-packet one-way delay: 114.325 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 73.07 Mbit/s
95th percentile per-packet one-way delay: 114.325 ms
Loss rate: 0.56%
```

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

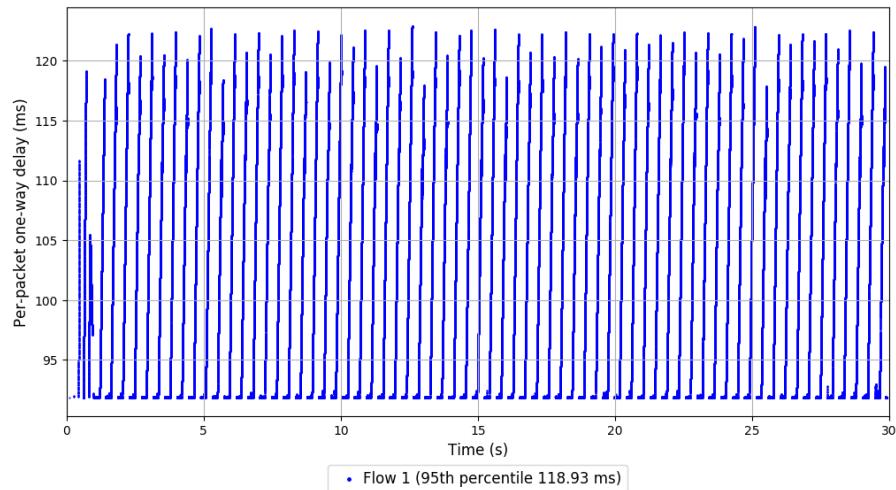
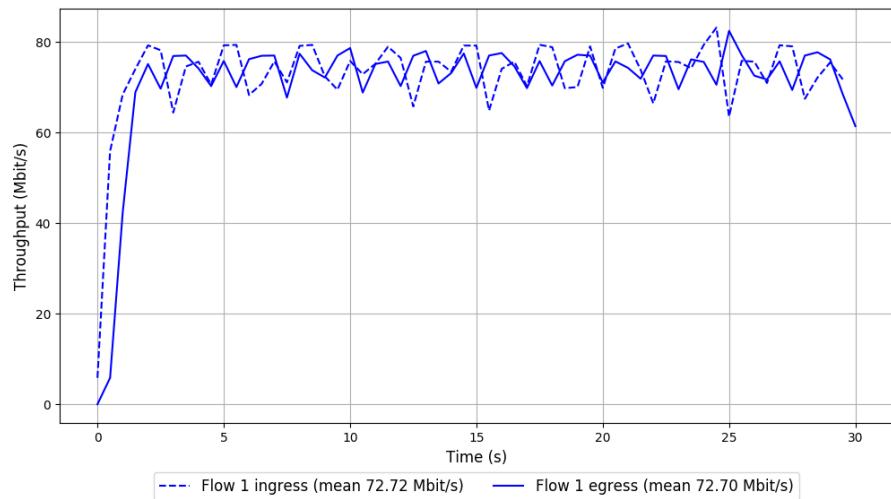


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-21 22:39:01
End at: 2019-01-21 22:39:31
Local clock offset: -0.584 ms
Remote clock offset: 2.686 ms

# Below is generated by plot.py at 2019-01-21 23:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.70 Mbit/s
95th percentile per-packet one-way delay: 118.932 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 72.70 Mbit/s
95th percentile per-packet one-way delay: 118.932 ms
Loss rate: 0.61%
```

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

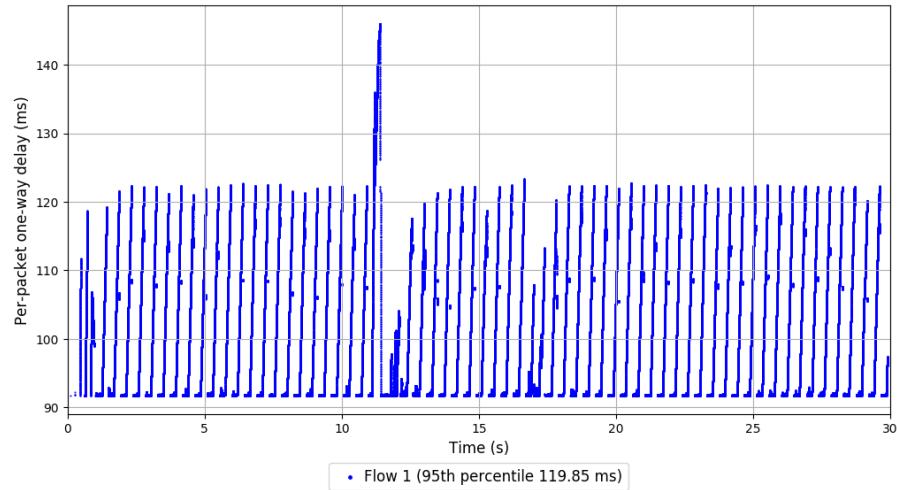
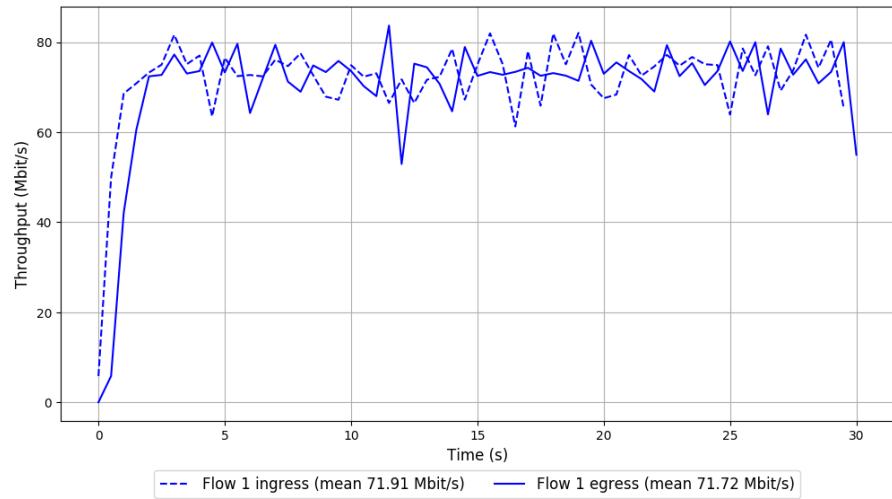


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-21 23:04:01
End at: 2019-01-21 23:04:31
Local clock offset: -1.482 ms
Remote clock offset: 8.609 ms

# Below is generated by plot.py at 2019-01-21 23:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.72 Mbit/s
95th percentile per-packet one-way delay: 119.846 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 71.72 Mbit/s
95th percentile per-packet one-way delay: 119.846 ms
Loss rate: 0.77%
```

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

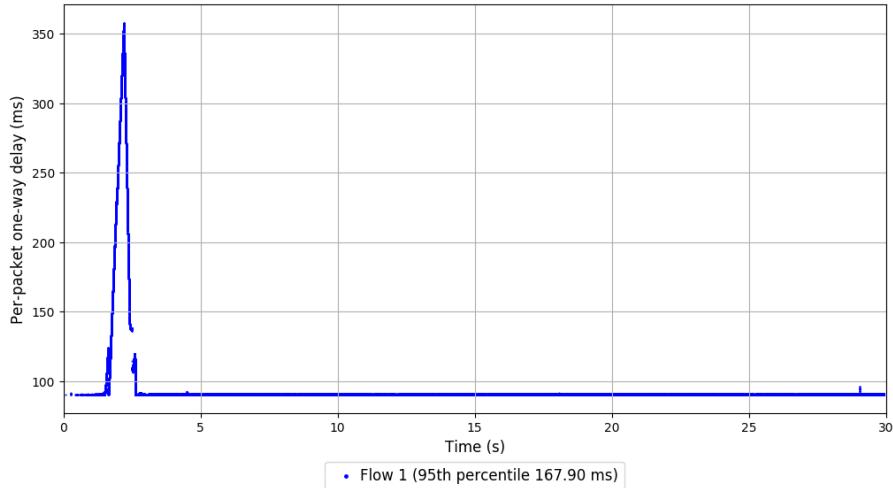
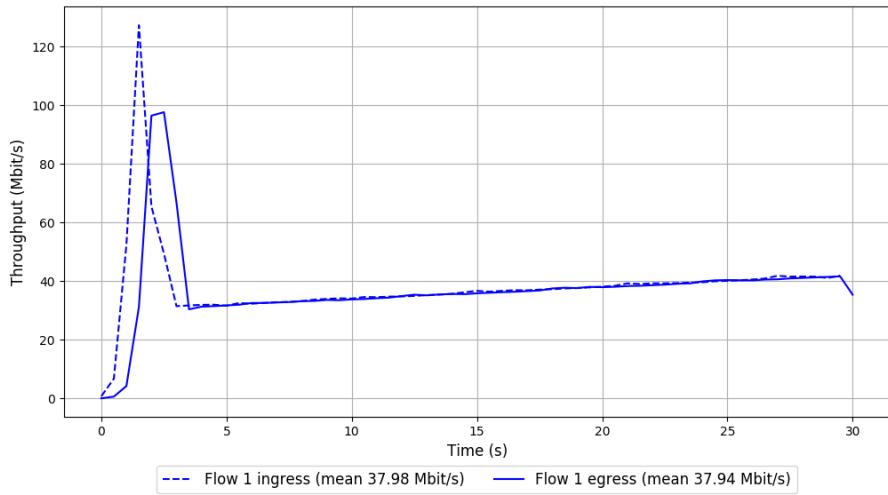


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-21 21:16:58
End at: 2019-01-21 21:17:28
Local clock offset: -6.83 ms
Remote clock offset: 4.116 ms

# Below is generated by plot.py at 2019-01-21 23:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.94 Mbit/s
95th percentile per-packet one-way delay: 167.896 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 37.94 Mbit/s
95th percentile per-packet one-way delay: 167.896 ms
Loss rate: 0.66%
```

Run 1: Report of TCP Vegas — Data Link

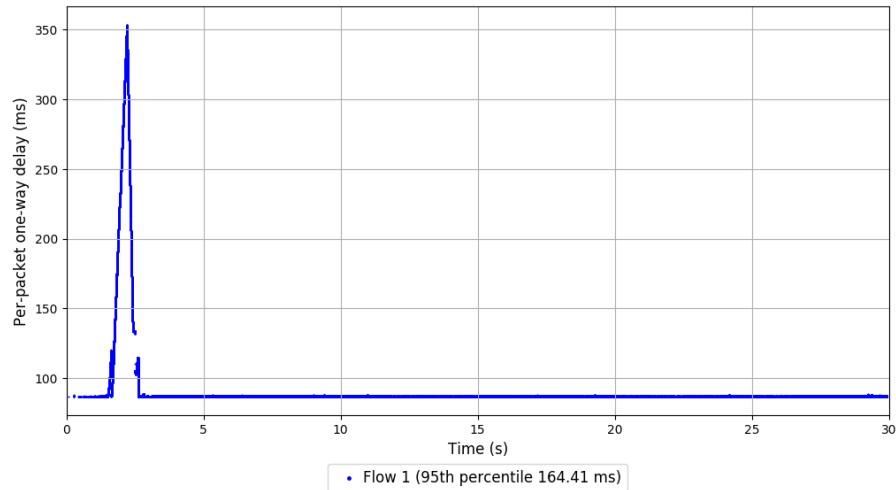
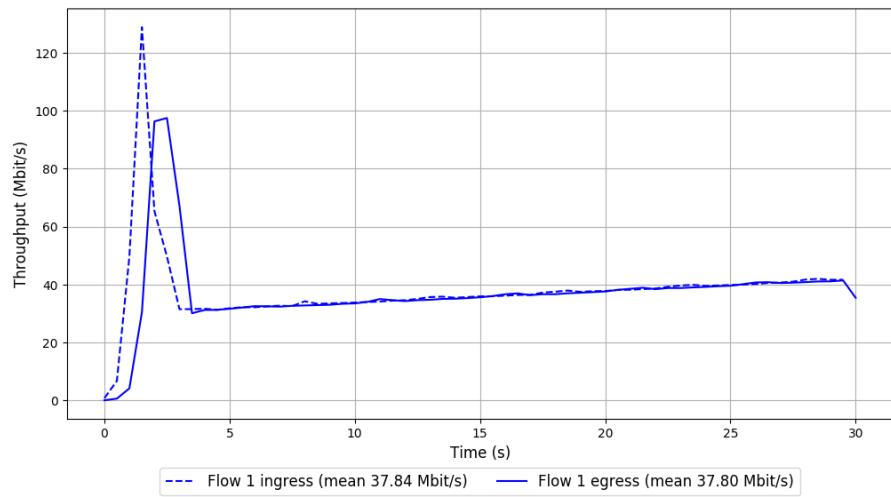


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-21 21:41:58
End at: 2019-01-21 21:42:28
Local clock offset: -5.952 ms
Remote clock offset: 7.473 ms

# Below is generated by plot.py at 2019-01-21 23:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.80 Mbit/s
95th percentile per-packet one-way delay: 164.410 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 37.80 Mbit/s
95th percentile per-packet one-way delay: 164.410 ms
Loss rate: 0.66%
```

Run 2: Report of TCP Vegas — Data Link

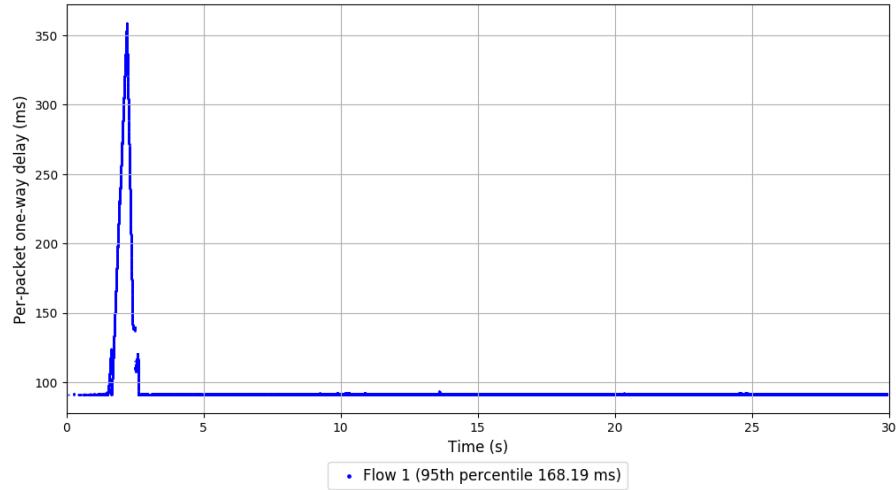
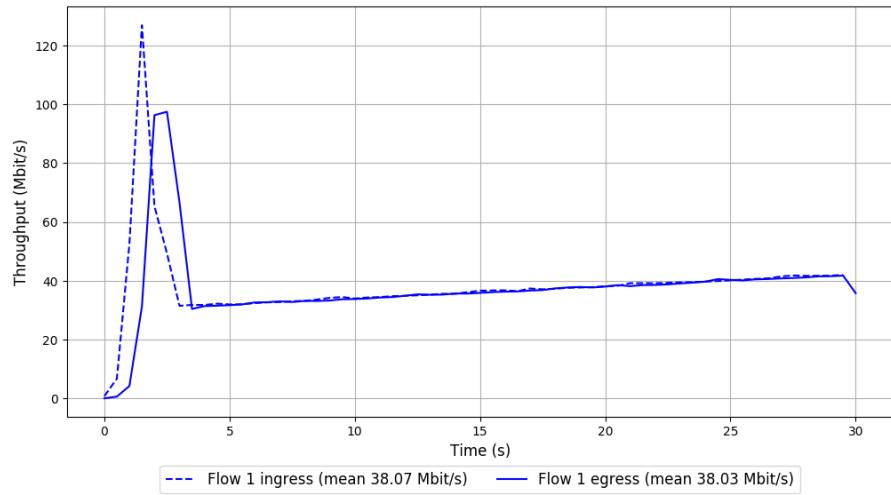


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-21 22:06:57
End at: 2019-01-21 22:07:27
Local clock offset: -6.601 ms
Remote clock offset: 2.319 ms

# Below is generated by plot.py at 2019-01-21 23:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.03 Mbit/s
95th percentile per-packet one-way delay: 168.191 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 38.03 Mbit/s
95th percentile per-packet one-way delay: 168.191 ms
Loss rate: 0.66%
```

Run 3: Report of TCP Vegas — Data Link

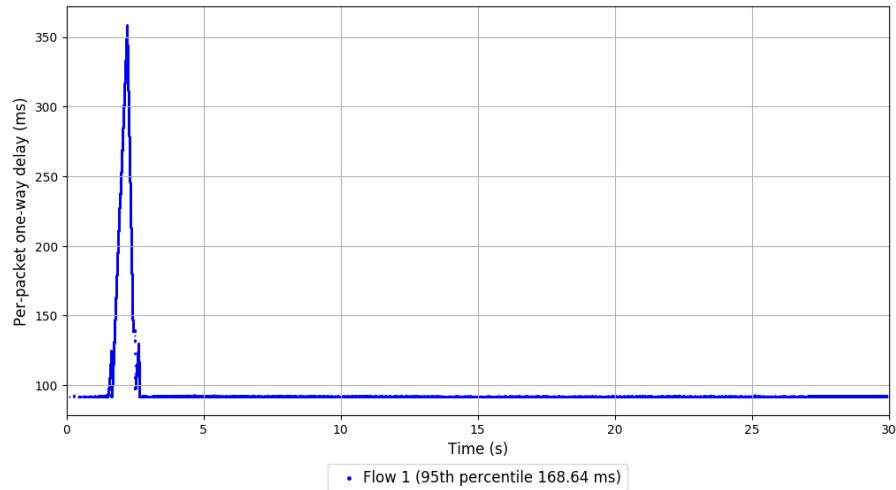
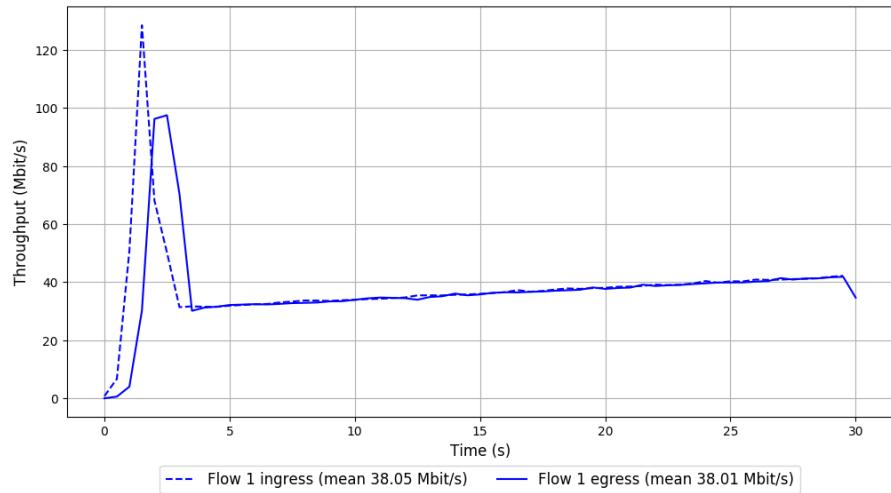


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-21 22:31:56
End at: 2019-01-21 22:32:26
Local clock offset: -2.283 ms
Remote clock offset: 1.452 ms

# Below is generated by plot.py at 2019-01-21 23:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.01 Mbit/s
95th percentile per-packet one-way delay: 168.638 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 38.01 Mbit/s
95th percentile per-packet one-way delay: 168.638 ms
Loss rate: 0.69%
```

Run 4: Report of TCP Vegas — Data Link

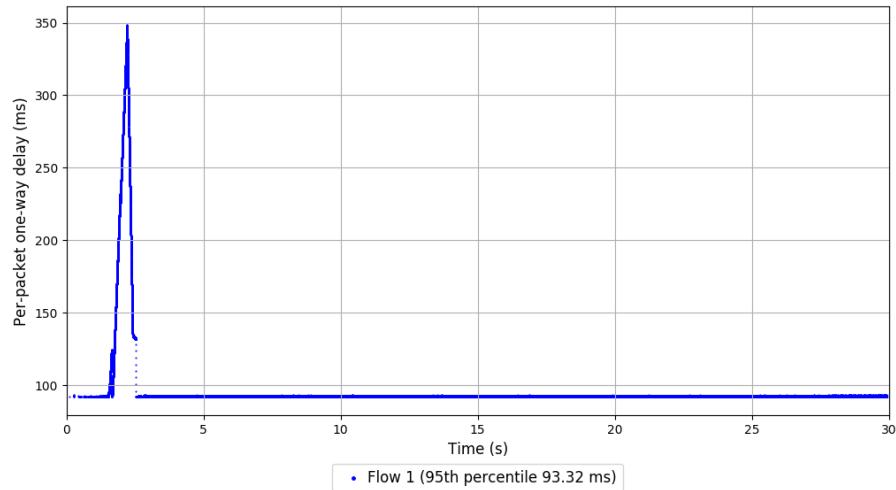
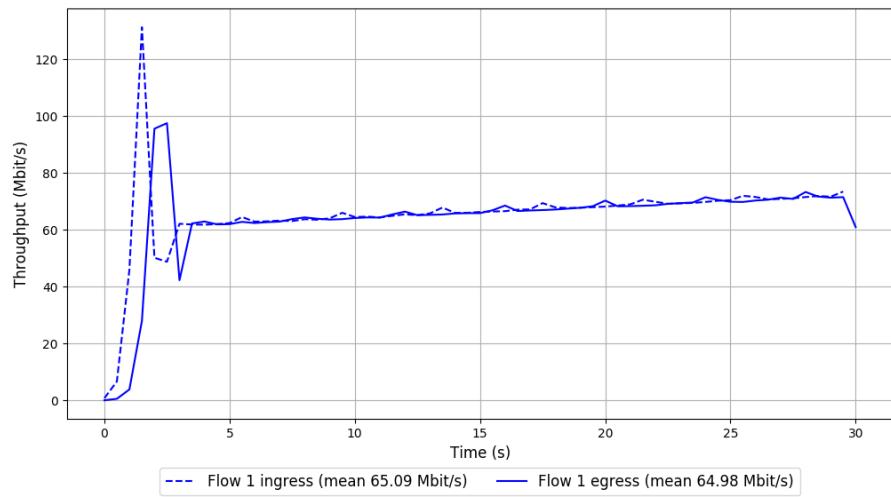


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-21 22:56:54
End at: 2019-01-21 22:57:24
Local clock offset: -1.449 ms
Remote clock offset: 2.073 ms

# Below is generated by plot.py at 2019-01-21 23:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.98 Mbit/s
95th percentile per-packet one-way delay: 93.317 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 64.98 Mbit/s
95th percentile per-packet one-way delay: 93.317 ms
Loss rate: 0.74%
```

Run 5: Report of TCP Vegas — Data Link

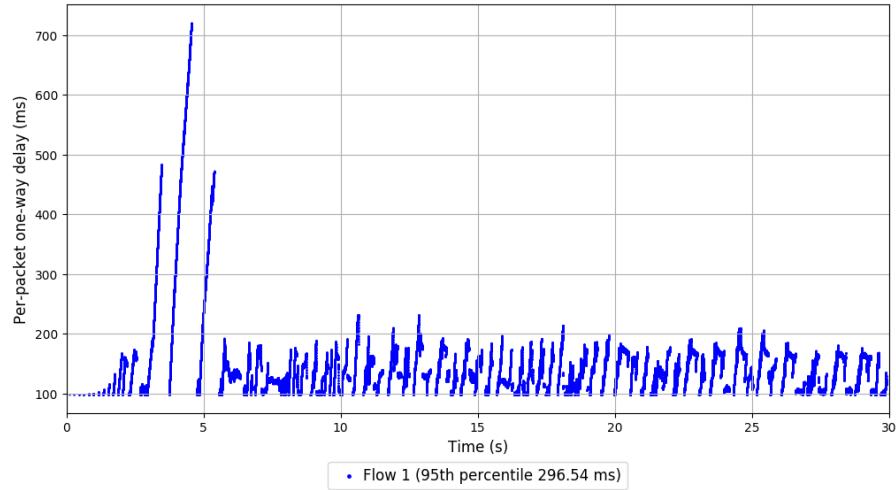
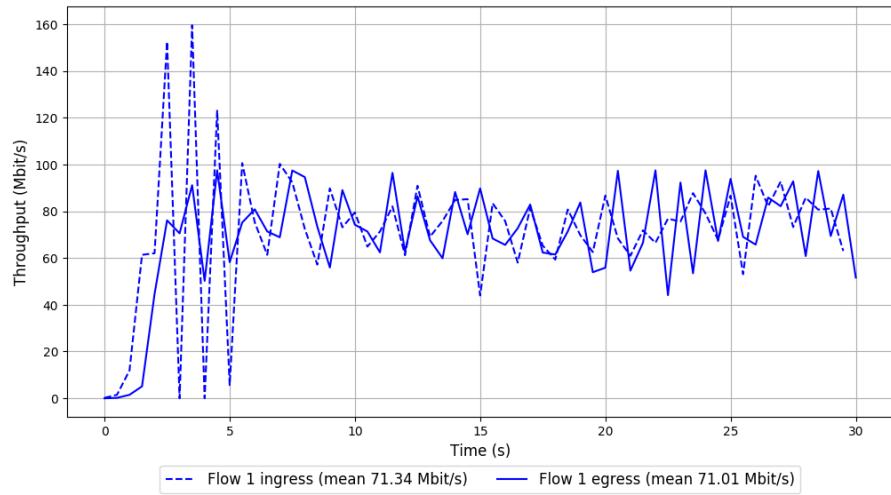


Run 1: Statistics of Verus

```
Start at: 2019-01-21 21:19:16
End at: 2019-01-21 21:19:46
Local clock offset: -6.724 ms
Remote clock offset: 2.957 ms

# Below is generated by plot.py at 2019-01-21 23:19:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.01 Mbit/s
95th percentile per-packet one-way delay: 296.539 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 71.01 Mbit/s
95th percentile per-packet one-way delay: 296.539 ms
Loss rate: 1.05%
```

Run 1: Report of Verus — Data Link

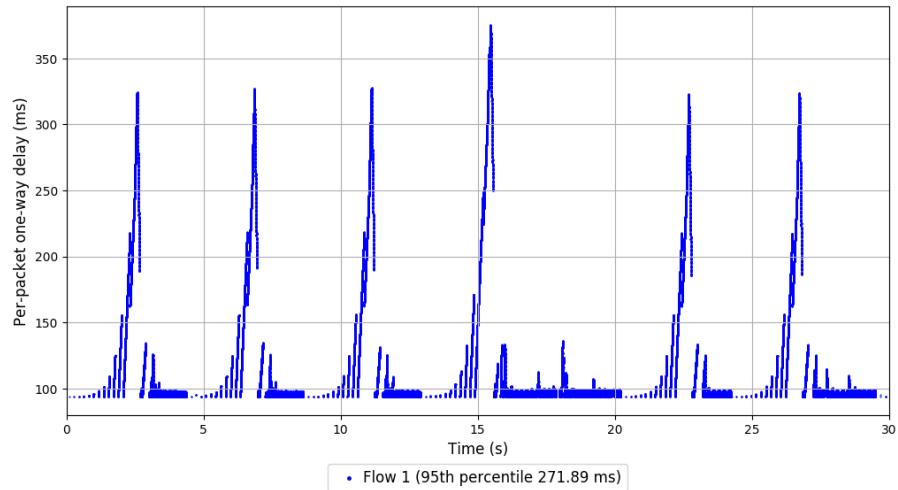
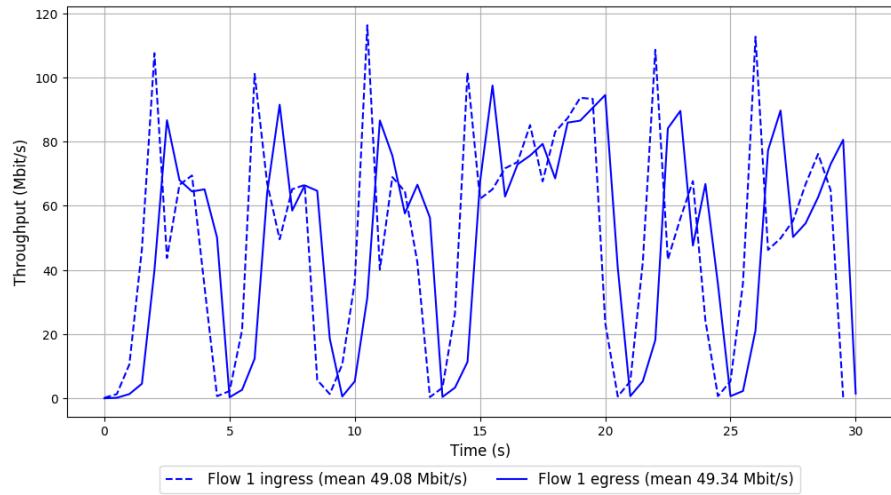


Run 2: Statistics of Verus

```
Start at: 2019-01-21 21:44:16
End at: 2019-01-21 21:44:46
Local clock offset: -5.902 ms
Remote clock offset: 6.258 ms

# Below is generated by plot.py at 2019-01-21 23:19:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.34 Mbit/s
95th percentile per-packet one-way delay: 271.887 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 49.34 Mbit/s
95th percentile per-packet one-way delay: 271.887 ms
Loss rate: 0.07%
```

Run 2: Report of Verus — Data Link

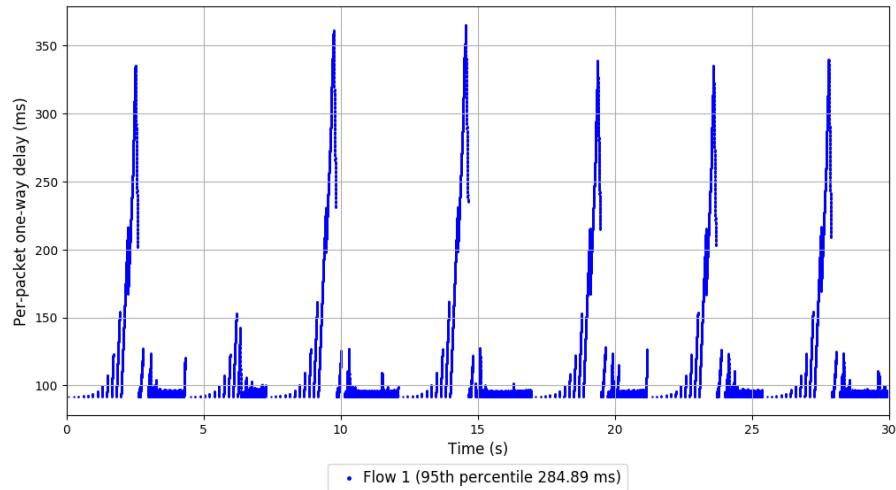
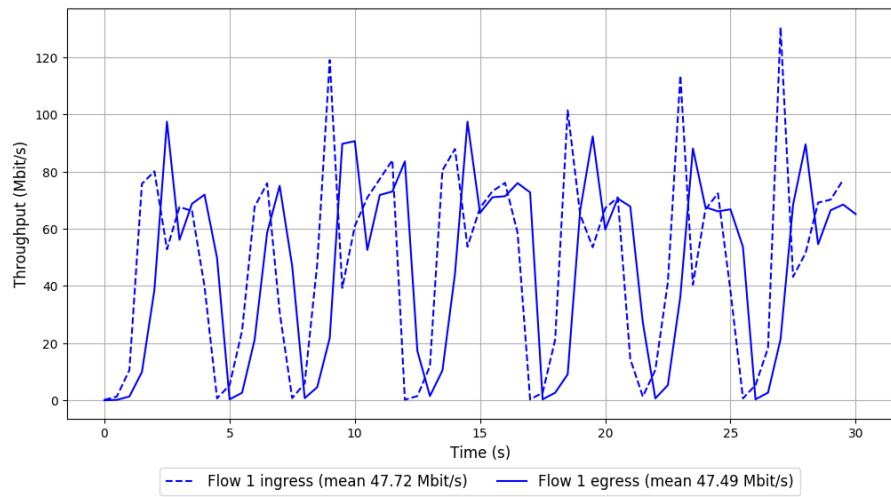


Run 3: Statistics of Verus

```
Start at: 2019-01-21 22:09:16
End at: 2019-01-21 22:09:46
Local clock offset: -6.655 ms
Remote clock offset: 2.373 ms

# Below is generated by plot.py at 2019-01-21 23:20:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.49 Mbit/s
95th percentile per-packet one-way delay: 284.889 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 47.49 Mbit/s
95th percentile per-packet one-way delay: 284.889 ms
Loss rate: 1.07%
```

Run 3: Report of Verus — Data Link

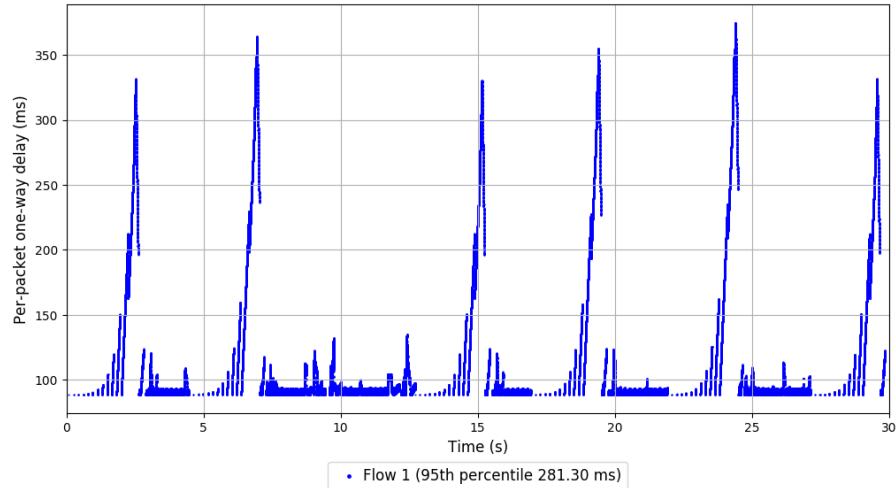
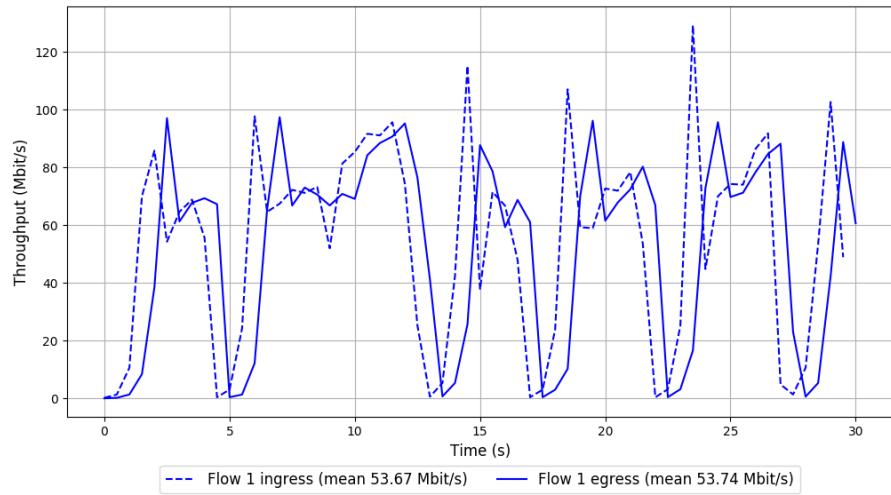


Run 4: Statistics of Verus

```
Start at: 2019-01-21 22:34:15
End at: 2019-01-21 22:34:45
Local clock offset: -1.895 ms
Remote clock offset: 5.126 ms

# Below is generated by plot.py at 2019-01-21 23:20:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.74 Mbit/s
95th percentile per-packet one-way delay: 281.300 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 53.74 Mbit/s
95th percentile per-packet one-way delay: 281.300 ms
Loss rate: 0.65%
```

Run 4: Report of Verus — Data Link

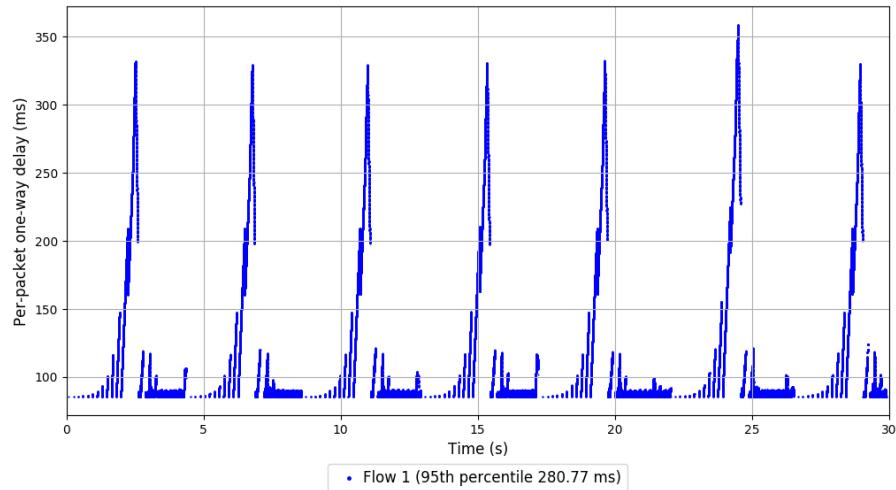
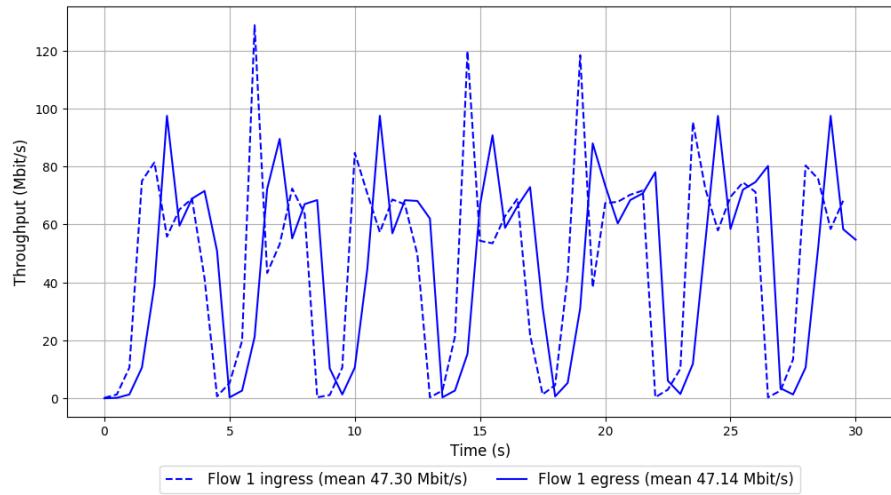


Run 5: Statistics of Verus

```
Start at: 2019-01-21 22:59:14
End at: 2019-01-21 22:59:44
Local clock offset: -1.459 ms
Remote clock offset: 8.473 ms

# Below is generated by plot.py at 2019-01-21 23:20:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.14 Mbit/s
95th percentile per-packet one-way delay: 280.766 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 47.14 Mbit/s
95th percentile per-packet one-way delay: 280.766 ms
Loss rate: 0.93%
```

Run 5: Report of Verus — Data Link

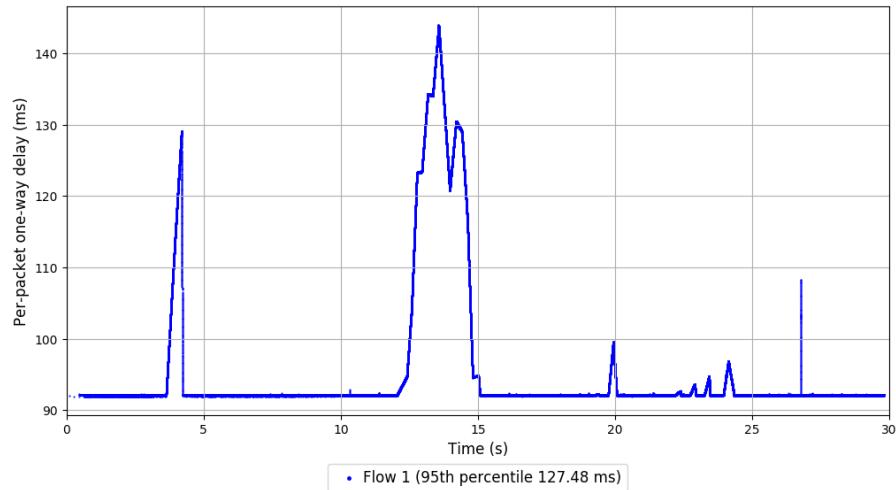
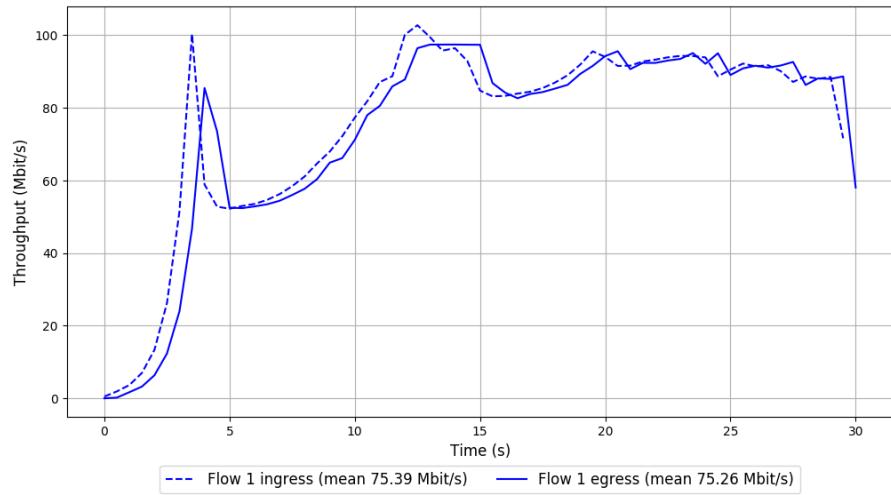


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-21 21:05:03
End at: 2019-01-21 21:05:33
Local clock offset: -6.048 ms
Remote clock offset: 2.582 ms

# Below is generated by plot.py at 2019-01-21 23:20:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.26 Mbit/s
95th percentile per-packet one-way delay: 127.477 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 75.26 Mbit/s
95th percentile per-packet one-way delay: 127.477 ms
Loss rate: 0.75%
```

Run 1: Report of PCC-Vivace — Data Link

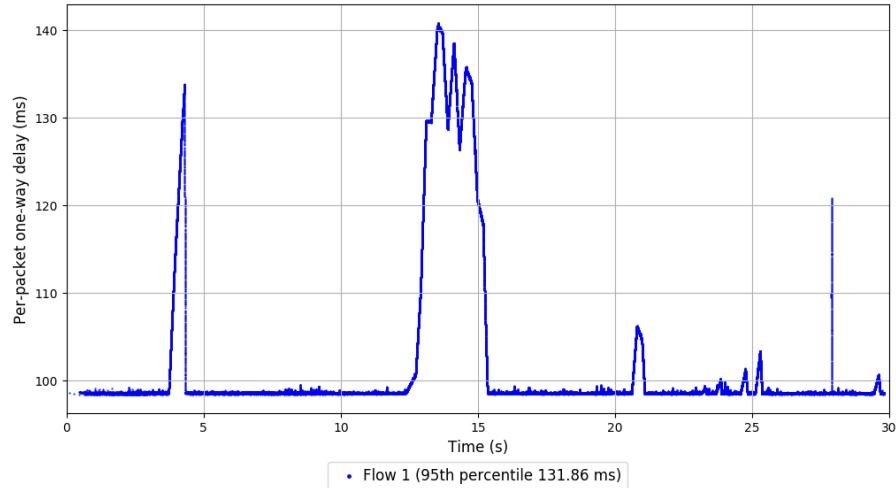
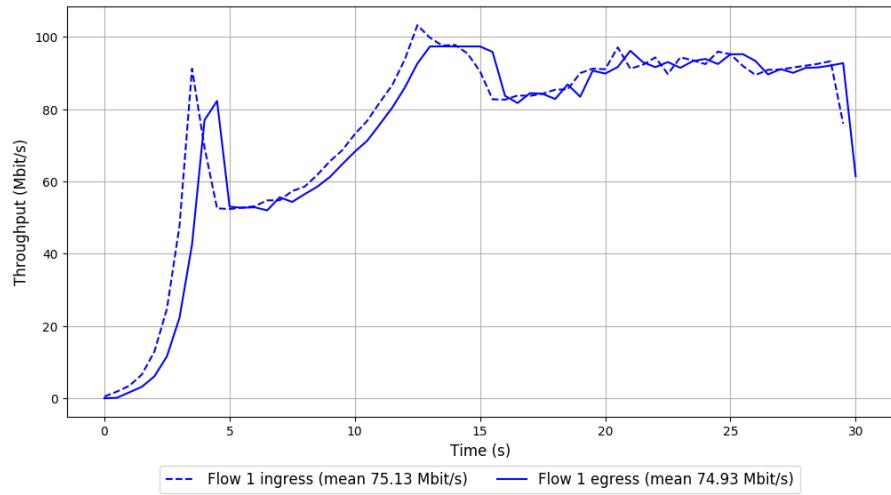


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-21 21:30:03
End at: 2019-01-21 21:30:33
Local clock offset: -5.805 ms
Remote clock offset: 2.499 ms

# Below is generated by plot.py at 2019-01-21 23:20:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.93 Mbit/s
95th percentile per-packet one-way delay: 131.857 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 74.93 Mbit/s
95th percentile per-packet one-way delay: 131.857 ms
Loss rate: 0.86%
```

Run 2: Report of PCC-Vivace — Data Link

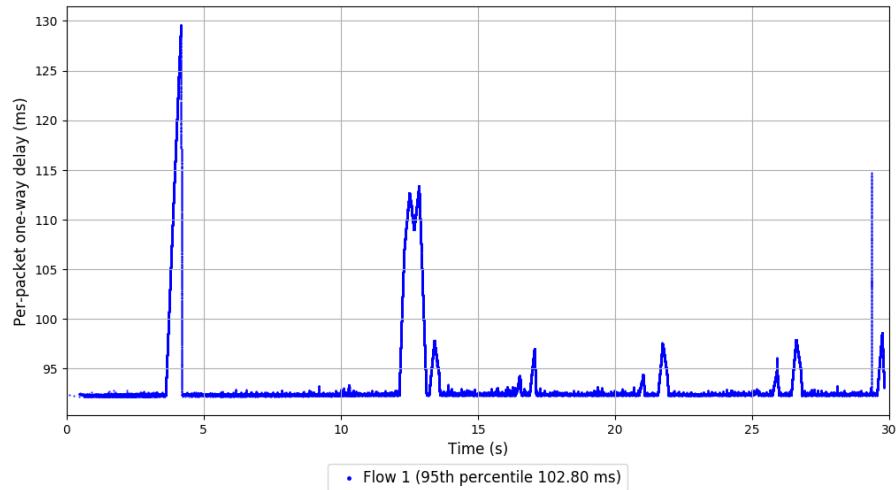
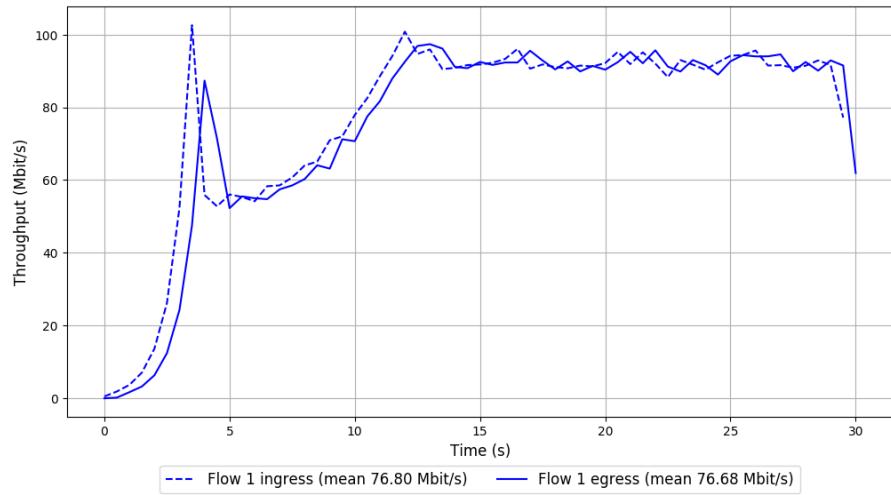


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-21 21:55:02
End at: 2019-01-21 21:55:32
Local clock offset: -7.034 ms
Remote clock offset: 0.791 ms

# Below is generated by plot.py at 2019-01-21 23:20:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.68 Mbit/s
95th percentile per-packet one-way delay: 102.796 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 76.68 Mbit/s
95th percentile per-packet one-way delay: 102.796 ms
Loss rate: 0.73%
```

Run 3: Report of PCC-Vivace — Data Link

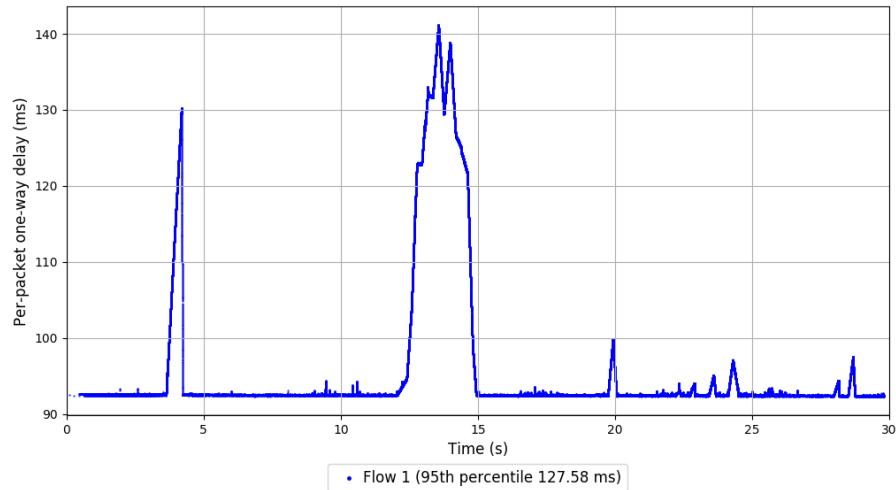
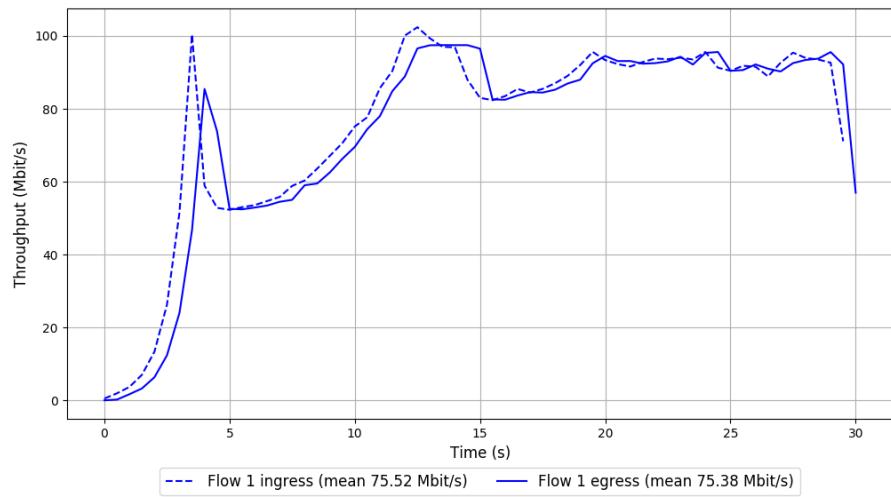


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-21 22:20:01
End at: 2019-01-21 22:20:31
Local clock offset: -4.661 ms
Remote clock offset: 1.367 ms

# Below is generated by plot.py at 2019-01-21 23:20:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.38 Mbit/s
95th percentile per-packet one-way delay: 127.585 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 75.38 Mbit/s
95th percentile per-packet one-way delay: 127.585 ms
Loss rate: 0.76%
```

Run 4: Report of PCC-Vivace — Data Link

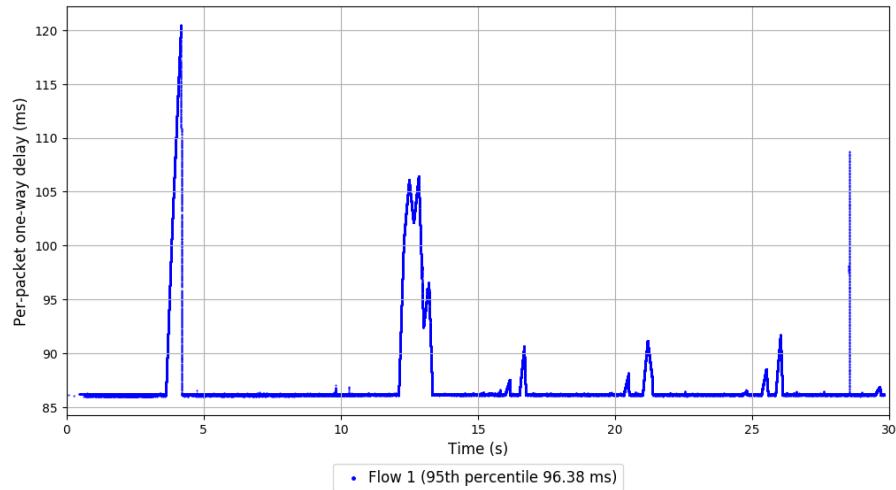
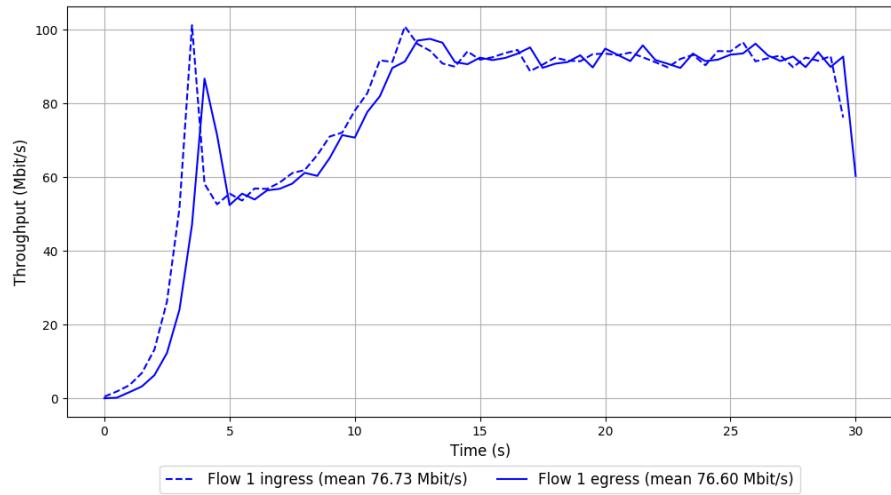


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-21 22:45:00
End at: 2019-01-21 22:45:30
Local clock offset: -0.832 ms
Remote clock offset: 7.179 ms

# Below is generated by plot.py at 2019-01-21 23:20:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.60 Mbit/s
95th percentile per-packet one-way delay: 96.379 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 76.60 Mbit/s
95th percentile per-packet one-way delay: 96.379 ms
Loss rate: 0.75%
```

Run 5: Report of PCC-Vivace — Data Link

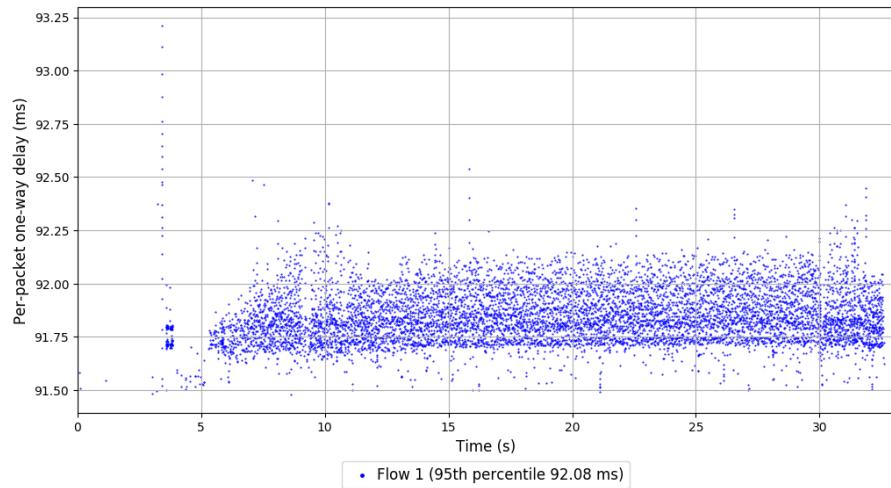
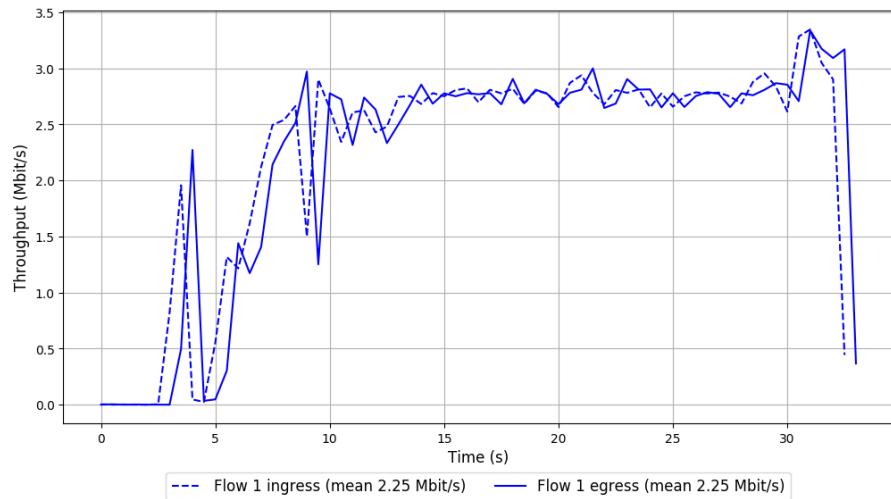


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-21 21:12:15
End at: 2019-01-21 21:12:45
Local clock offset: -6.068 ms
Remote clock offset: 3.965 ms

# Below is generated by plot.py at 2019-01-21 23:20:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 92.075 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 92.075 ms
Loss rate: 0.29%
```

Run 1: Report of WebRTC media — Data Link

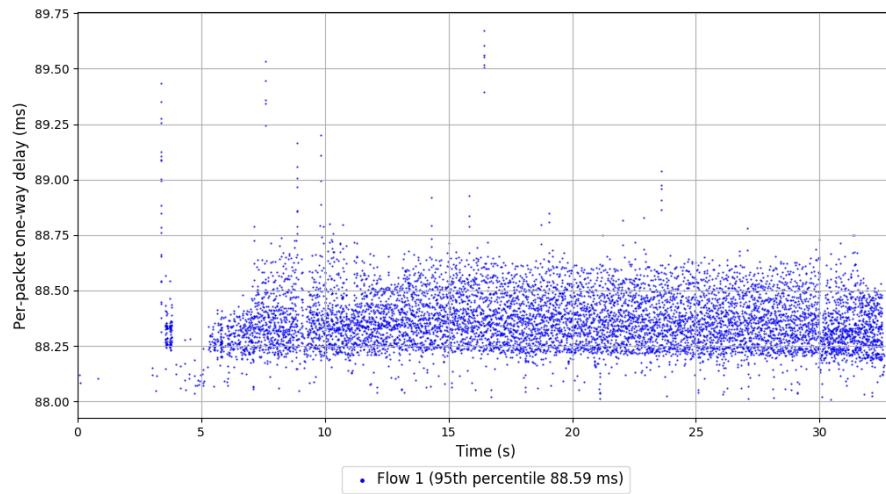
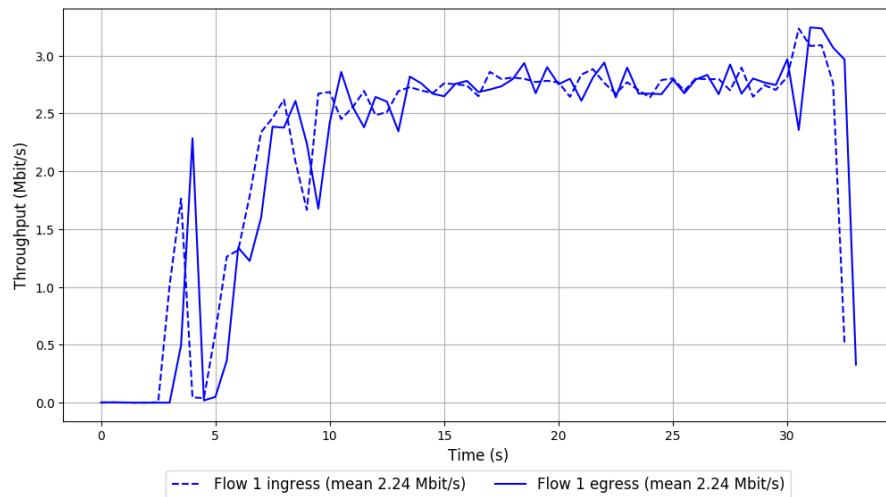


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-21 21:37:15
End at: 2019-01-21 21:37:45
Local clock offset: -5.895 ms
Remote clock offset: 5.622 ms

# Below is generated by plot.py at 2019-01-21 23:20:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 88.587 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 88.587 ms
Loss rate: 0.33%
```

Run 2: Report of WebRTC media — Data Link

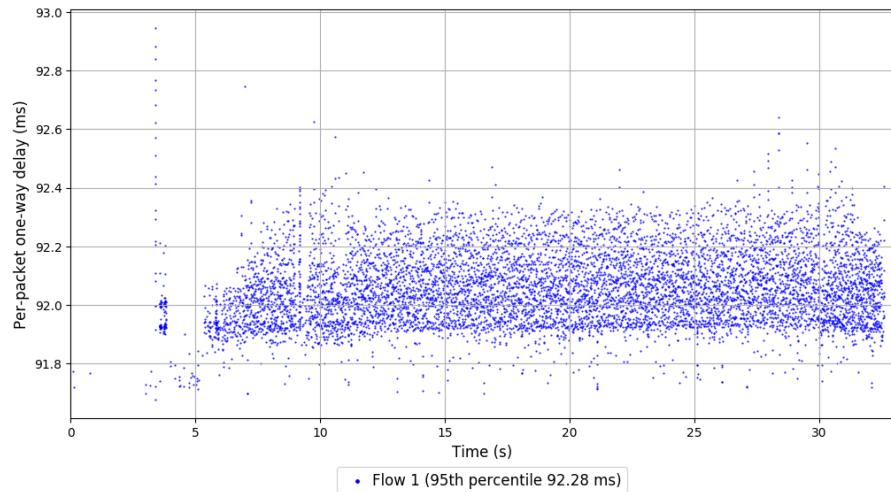
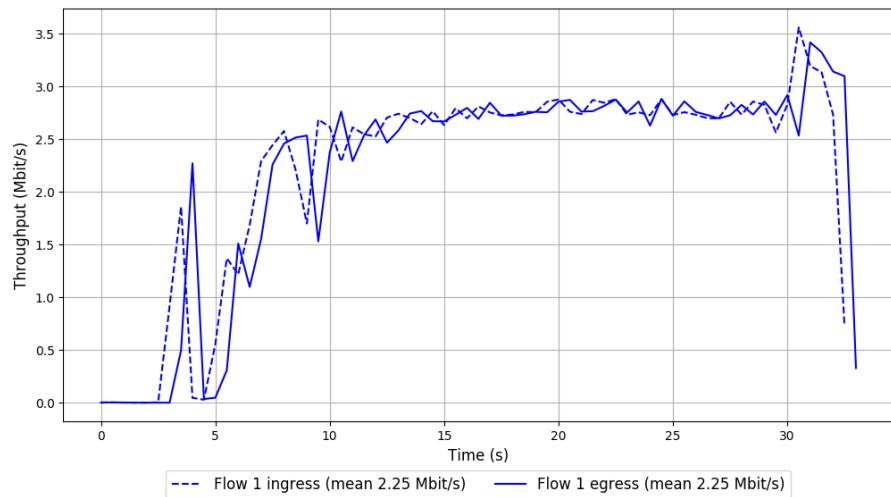


```
Run 3: Statistics of WebRTC media

Start at: 2019-01-21 22:02:14
End at: 2019-01-21 22:02:44
Local clock offset: -6.483 ms
Remote clock offset: 1.982 ms

# Below is generated by plot.py at 2019-01-21 23:20:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 92.281 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 92.281 ms
Loss rate: 0.37%
```

Run 3: Report of WebRTC media — Data Link

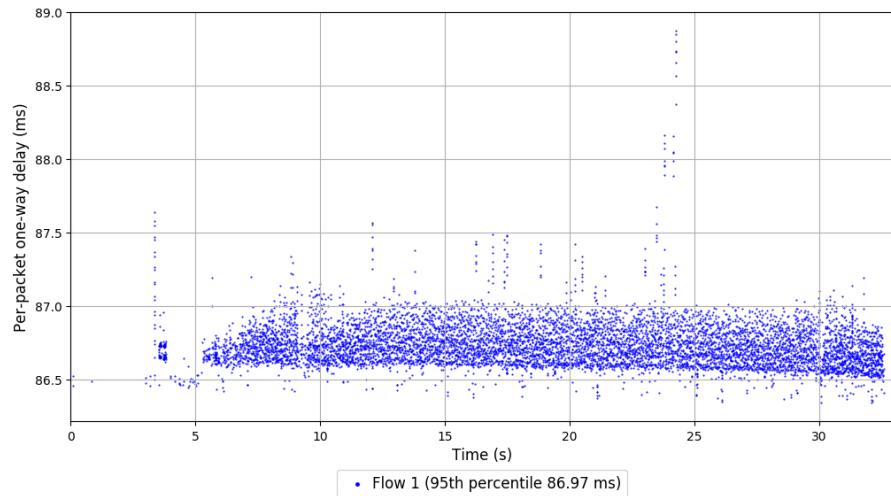
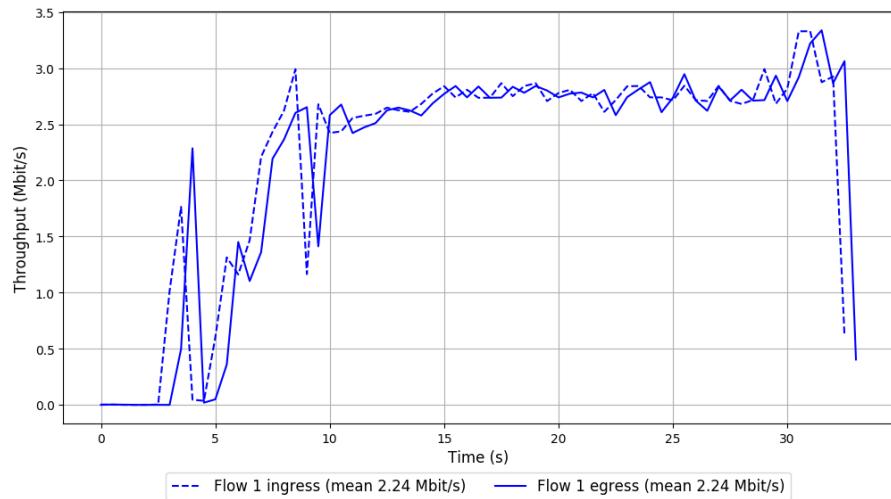


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-21 22:27:13
End at: 2019-01-21 22:27:43
Local clock offset: -2.361 ms
Remote clock offset: 7.565 ms

# Below is generated by plot.py at 2019-01-21 23:20:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 86.970 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 86.970 ms
Loss rate: 0.39%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-21 22:52:11
End at: 2019-01-21 22:52:41
Local clock offset: -0.544 ms
Remote clock offset: 2.159 ms

# Below is generated by plot.py at 2019-01-21 23:20:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 93.275 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 93.275 ms
Loss rate: 0.34%
```

Run 5: Report of WebRTC media — Data Link

