

Pantheon Report

Generated at 2019-02-11 14:13:33 (UTC).
Data path: AWS Brazil 2 on `ens5` (*local*) → Colombia on `p4p1` (*remote*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

System info:

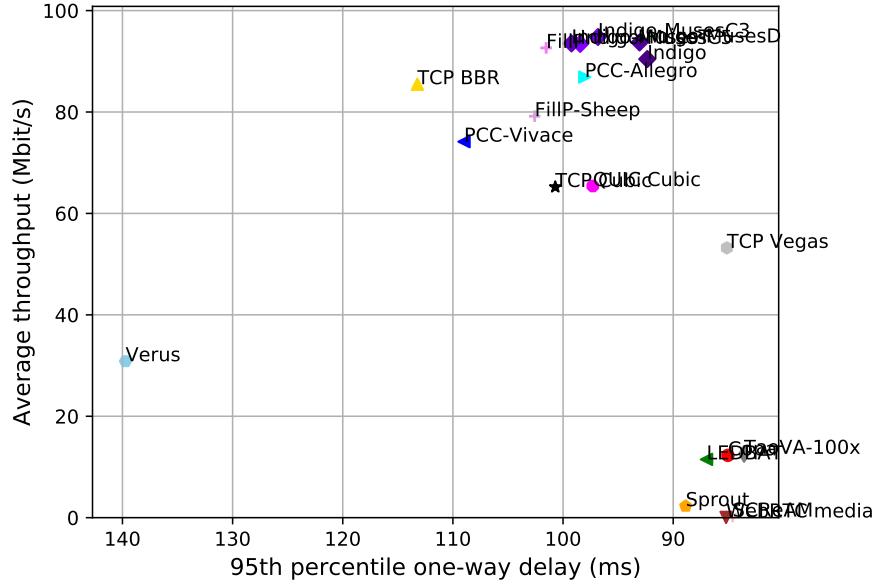
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

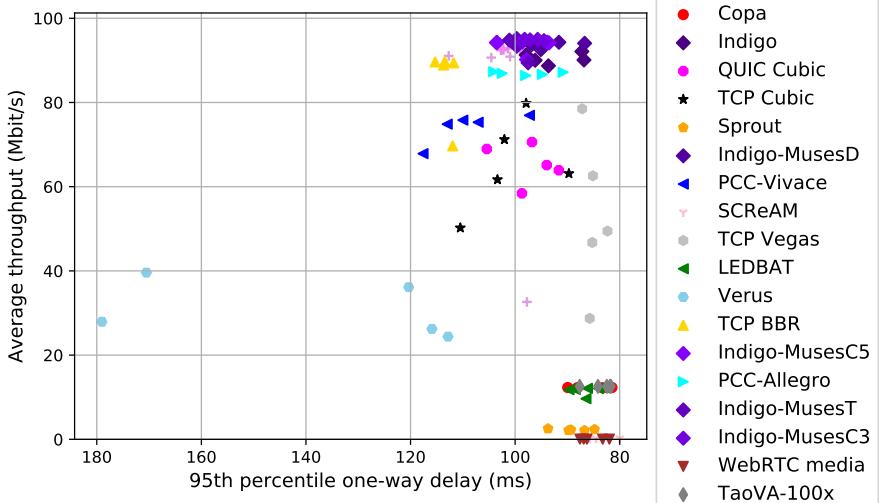
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d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

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



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



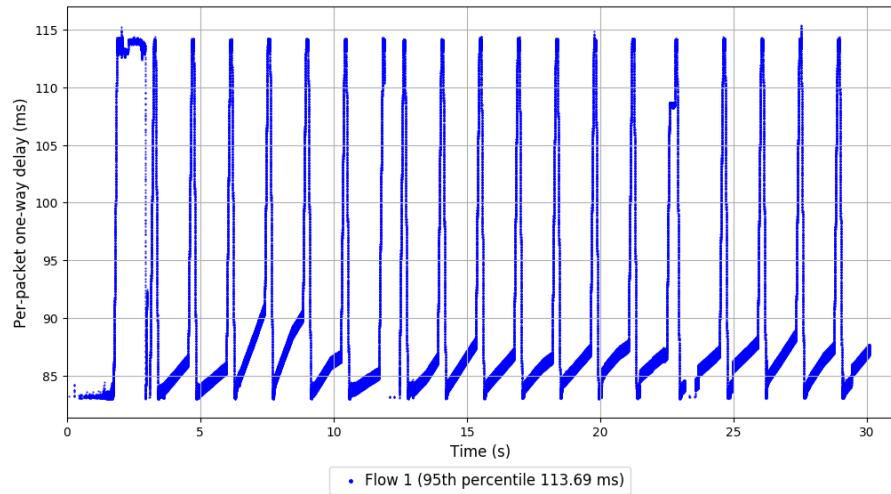
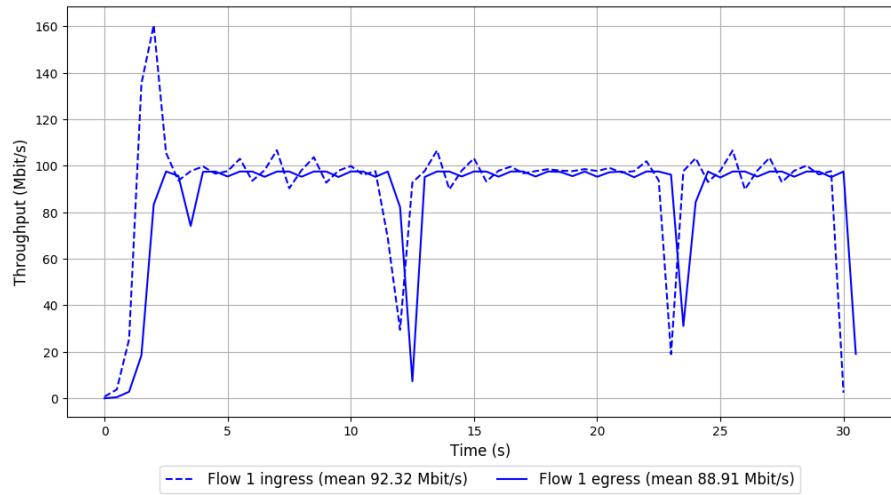
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	85.49	113.23	3.97
Copa	5	12.29	85.04	71.02
TCP Cubic	5	65.21	100.70	0.68
FillP	5	92.64	101.53	1.09
FillP-Sheep	5	79.17	102.58	1.96
Indigo	5	90.44	92.35	1.26
Indigo-MusesC3	5	94.79	96.83	0.44
Indigo-MusesC5	5	93.43	98.44	0.07
Indigo-MusesD	5	93.72	93.05	0.11
Indigo-MusesT	5	93.52	99.23	2.43
LEDBAT	5	11.49	86.97	0.01
PCC-Allegro	5	86.89	98.03	1.51
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	65.40	97.30	0.39
SCReAM	5	0.22	84.60	0.00
Sprout	5	2.28	88.87	0.01
TaoVA-100x	5	12.59	83.57	28.65
TCP Vegas	5	53.20	85.13	0.50
Verus	5	30.85	139.72	41.77
PCC-Vivace	5	74.15	108.99	0.17
WebRTC media	5	0.05	85.20	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-02-11 12:16:09
End at: 2019-02-11 12:16:39
Local clock offset: -17.348 ms
Remote clock offset: 2.778 ms

# Below is generated by plot.py at 2019-02-11 14:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.91 Mbit/s
95th percentile per-packet one-way delay: 113.685 ms
Loss rate: 3.69%
-- Flow 1:
Average throughput: 88.91 Mbit/s
95th percentile per-packet one-way delay: 113.685 ms
Loss rate: 3.69%
```

Run 1: Report of TCP BBR — Data Link

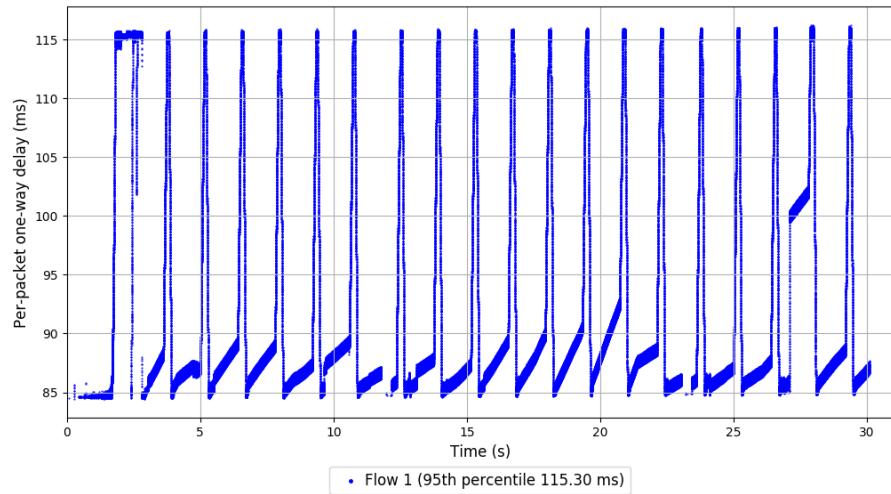
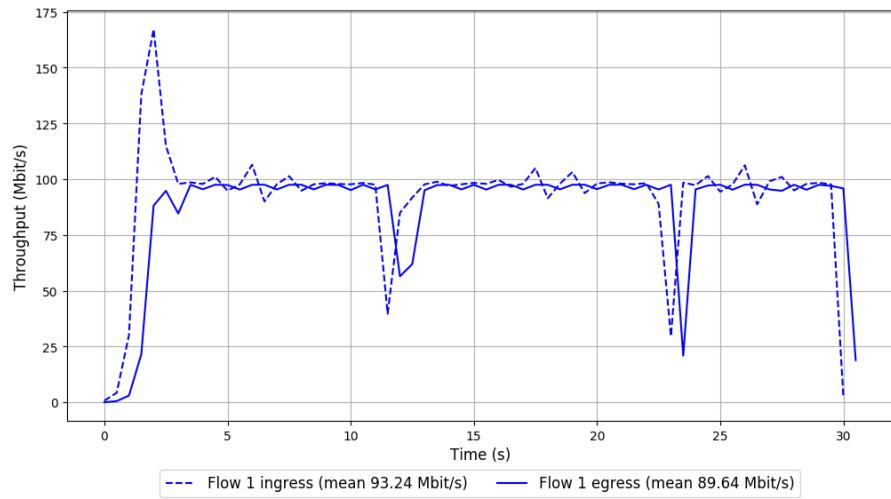


Run 2: Statistics of TCP BBR

```
Start at: 2019-02-11 12:40:49
End at: 2019-02-11 12:41:19
Local clock offset: -12.722 ms
Remote clock offset: 2.252 ms

# Below is generated by plot.py at 2019-02-11 14:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.64 Mbit/s
95th percentile per-packet one-way delay: 115.298 ms
Loss rate: 3.85%
-- Flow 1:
Average throughput: 89.64 Mbit/s
95th percentile per-packet one-way delay: 115.298 ms
Loss rate: 3.85%
```

Run 2: Report of TCP BBR — Data Link

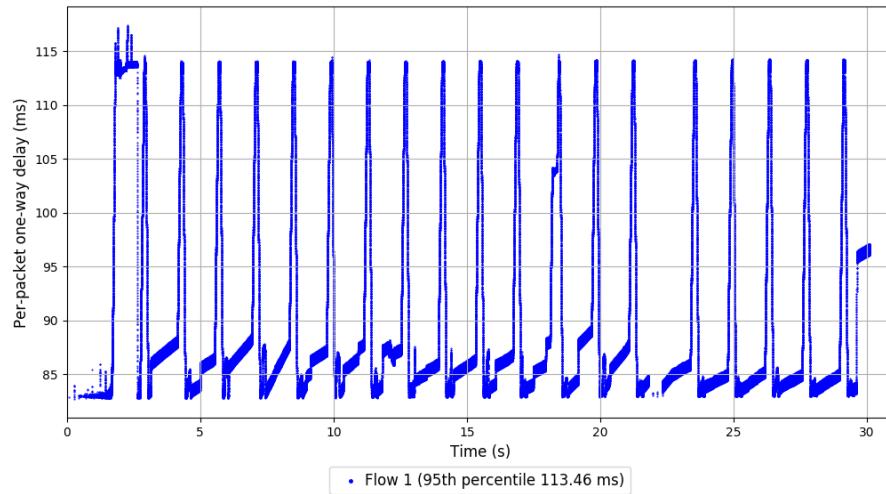
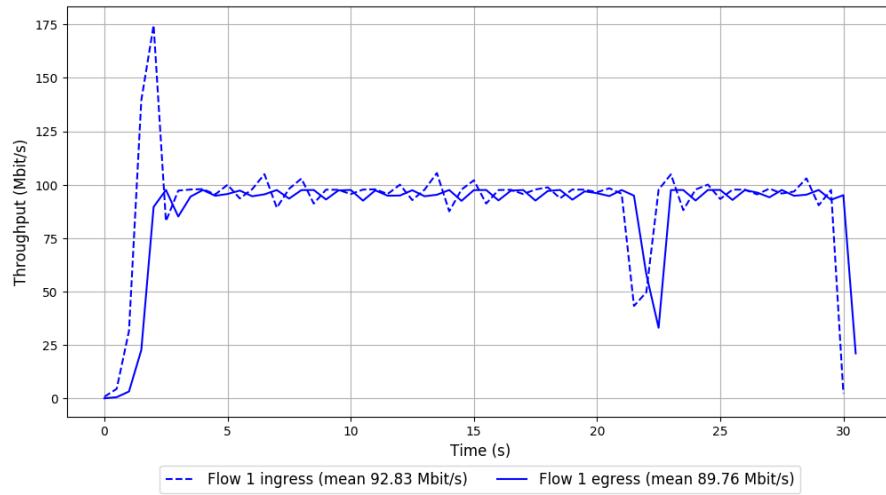


Run 3: Statistics of TCP BBR

```
Start at: 2019-02-11 13:05:44
End at: 2019-02-11 13:06:14
Local clock offset: -7.0 ms
Remote clock offset: 1.622 ms

# Below is generated by plot.py at 2019-02-11 14:05:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 113.460 ms
Loss rate: 3.27%
-- Flow 1:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 113.460 ms
Loss rate: 3.27%
```

Run 3: Report of TCP BBR — Data Link

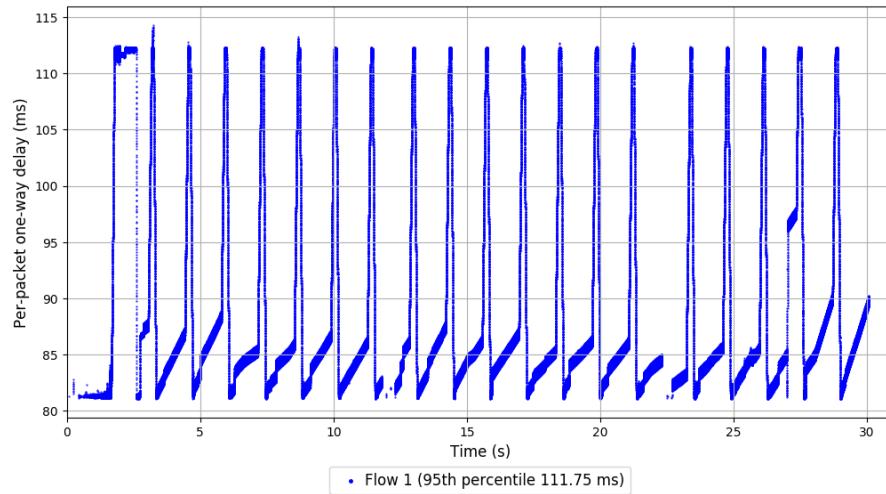
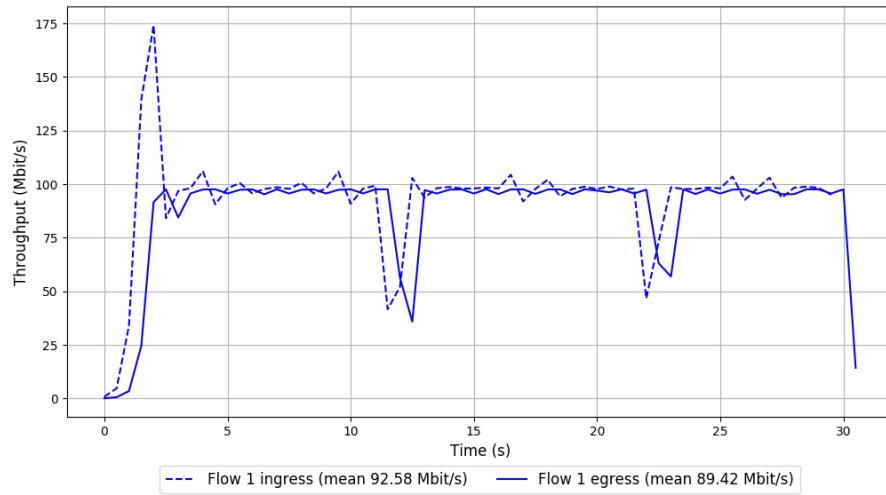


Run 4: Statistics of TCP BBR

```
Start at: 2019-02-11 13:30:38
End at: 2019-02-11 13:31:08
Local clock offset: -5.434 ms
Remote clock offset: 2.041 ms

# Below is generated by plot.py at 2019-02-11 14:05:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.42 Mbit/s
95th percentile per-packet one-way delay: 111.749 ms
Loss rate: 3.39%
-- Flow 1:
Average throughput: 89.42 Mbit/s
95th percentile per-packet one-way delay: 111.749 ms
Loss rate: 3.39%
```

Run 4: Report of TCP BBR — Data Link

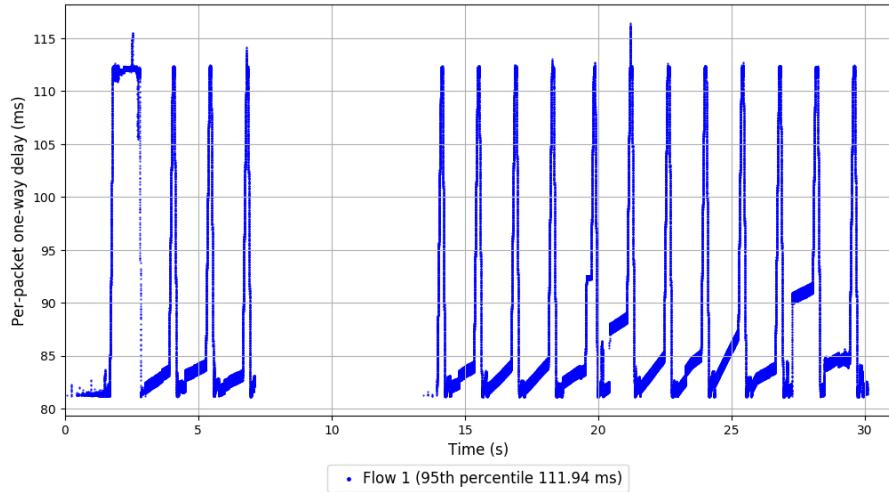
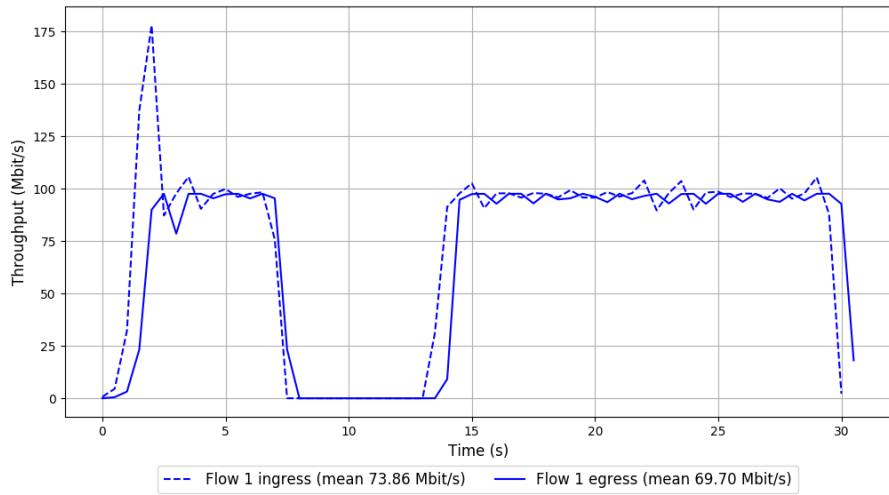


Run 5: Statistics of TCP BBR

```
Start at: 2019-02-11 13:55:24
End at: 2019-02-11 13:55:54
Local clock offset: -2.962 ms
Remote clock offset: 0.632 ms

# Below is generated by plot.py at 2019-02-11 14:05:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.70 Mbit/s
95th percentile per-packet one-way delay: 111.941 ms
Loss rate: 5.64%
-- Flow 1:
Average throughput: 69.70 Mbit/s
95th percentile per-packet one-way delay: 111.941 ms
Loss rate: 5.64%
```

Run 5: Report of TCP BBR — Data Link

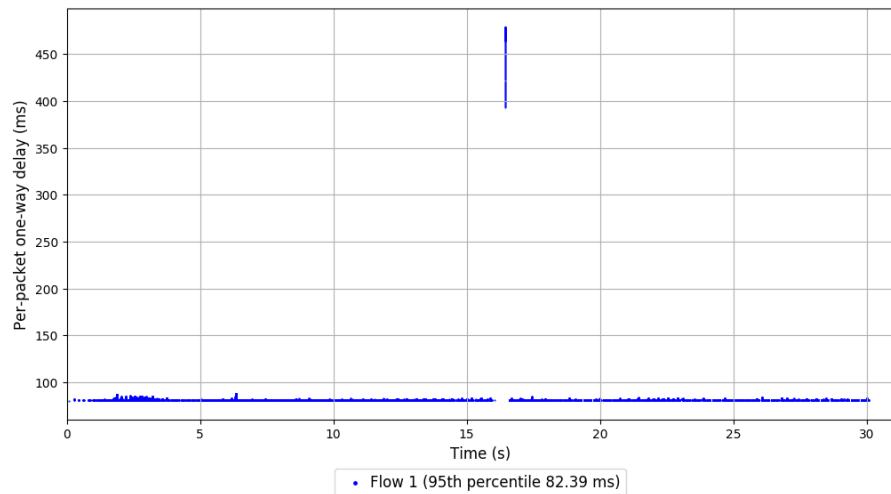
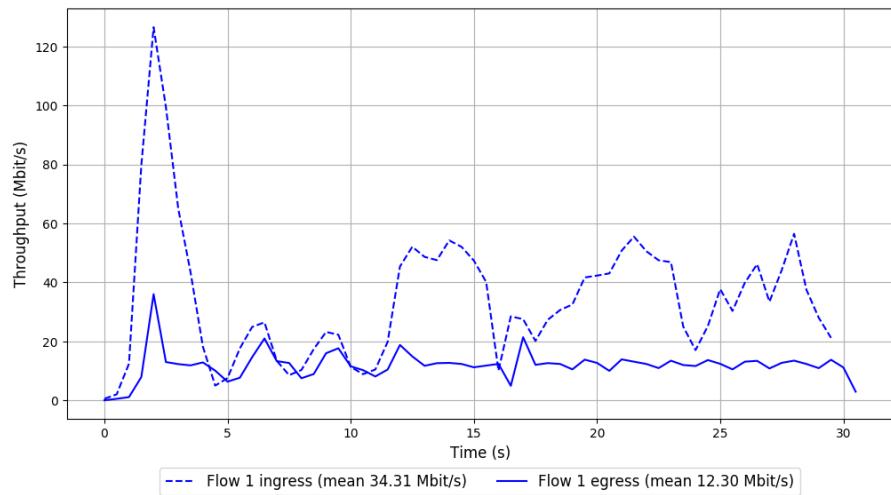


Run 1: Statistics of Copa

```
Start at: 2019-02-11 12:18:32
End at: 2019-02-11 12:19:02
Local clock offset: -17.118 ms
Remote clock offset: 1.537 ms

# Below is generated by plot.py at 2019-02-11 14:05:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 82.389 ms
Loss rate: 64.14%
-- Flow 1:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 82.389 ms
Loss rate: 64.14%
```

Run 1: Report of Copa — Data Link

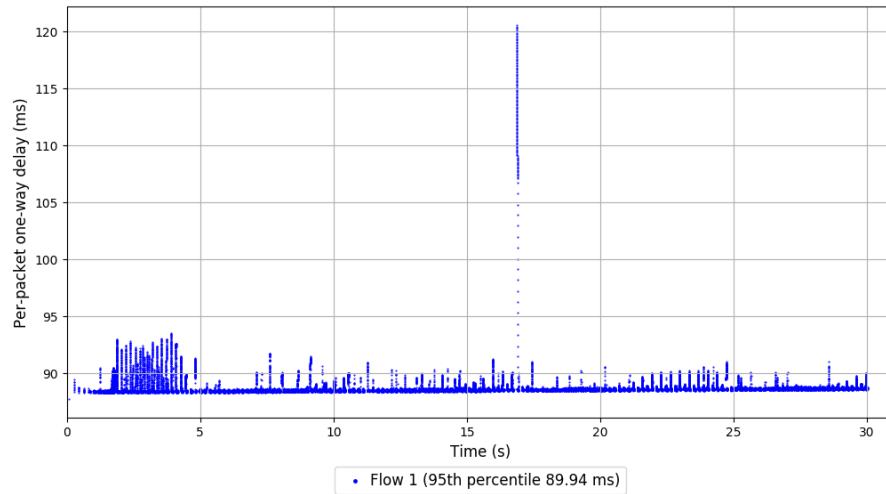
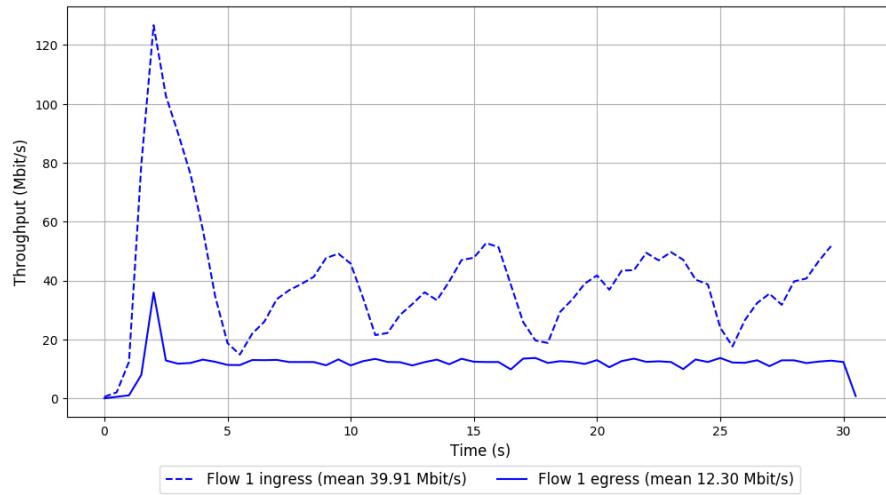


Run 2: Statistics of Copa

```
Start at: 2019-02-11 12:43:11
End at: 2019-02-11 12:43:41
Local clock offset: -11.053 ms
Remote clock offset: 7.475 ms

# Below is generated by plot.py at 2019-02-11 14:05:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 89.943 ms
Loss rate: 69.18%
-- Flow 1:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 89.943 ms
Loss rate: 69.18%
```

Run 2: Report of Copa — Data Link

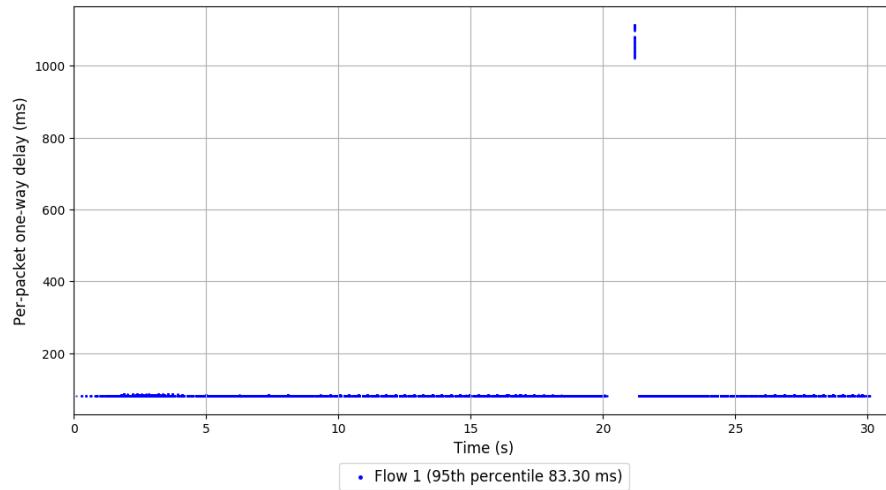
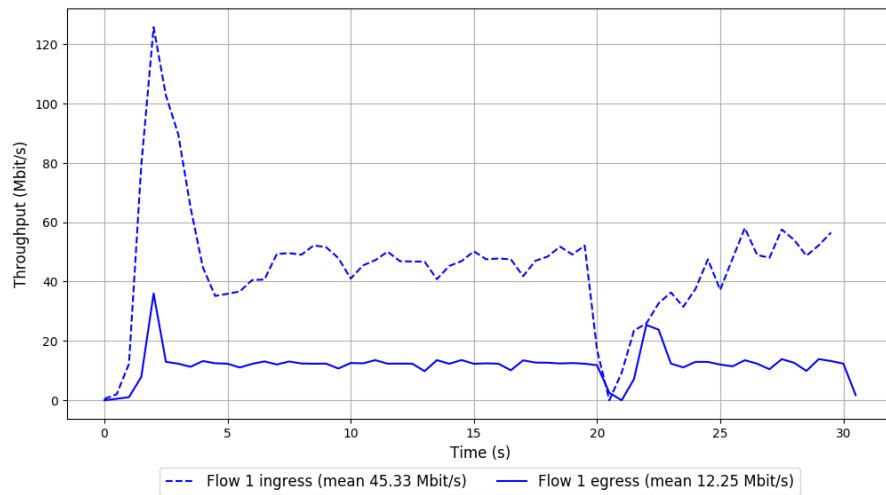


Run 3: Statistics of Copa

```
Start at: 2019-02-11 13:08:07
End at: 2019-02-11 13:08:37
Local clock offset: -6.712 ms
Remote clock offset: 0.238 ms

# Below is generated by plot.py at 2019-02-11 14:05:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.25 Mbit/s
95th percentile per-packet one-way delay: 83.299 ms
Loss rate: 72.99%
-- Flow 1:
Average throughput: 12.25 Mbit/s
95th percentile per-packet one-way delay: 83.299 ms
Loss rate: 72.99%
```

Run 3: Report of Copa — Data Link

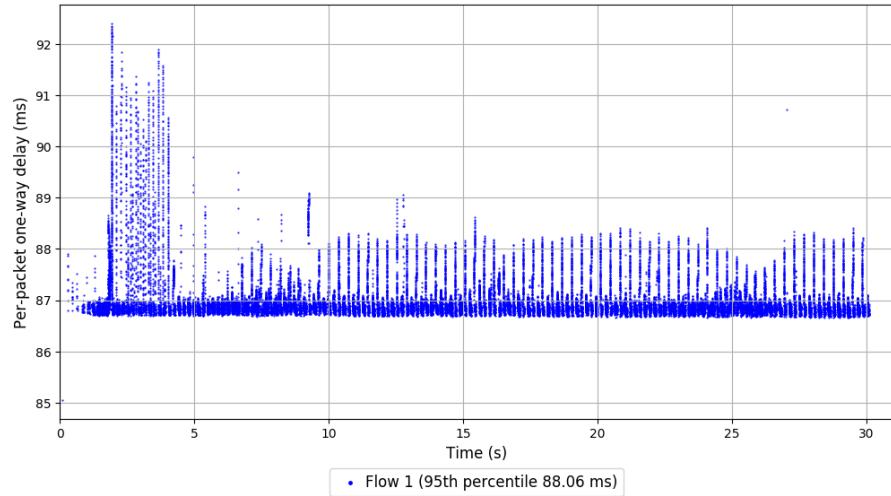
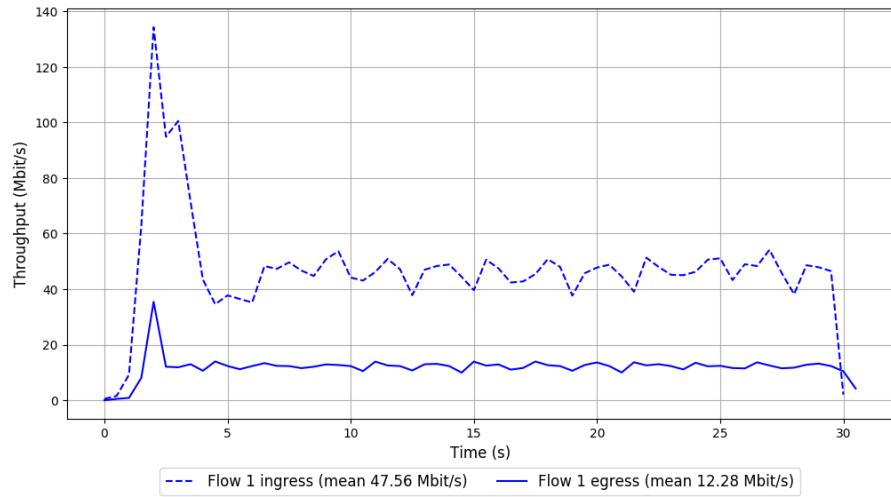


Run 4: Statistics of Copa

```
Start at: 2019-02-11 13:33:03
End at: 2019-02-11 13:33:33
Local clock offset: -5.654 ms
Remote clock offset: 5.717 ms

# Below is generated by plot.py at 2019-02-11 14:05:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.28 Mbit/s
95th percentile per-packet one-way delay: 88.060 ms
Loss rate: 74.18%
-- Flow 1:
Average throughput: 12.28 Mbit/s
95th percentile per-packet one-way delay: 88.060 ms
Loss rate: 74.18%
```

Run 4: Report of Copa — Data Link

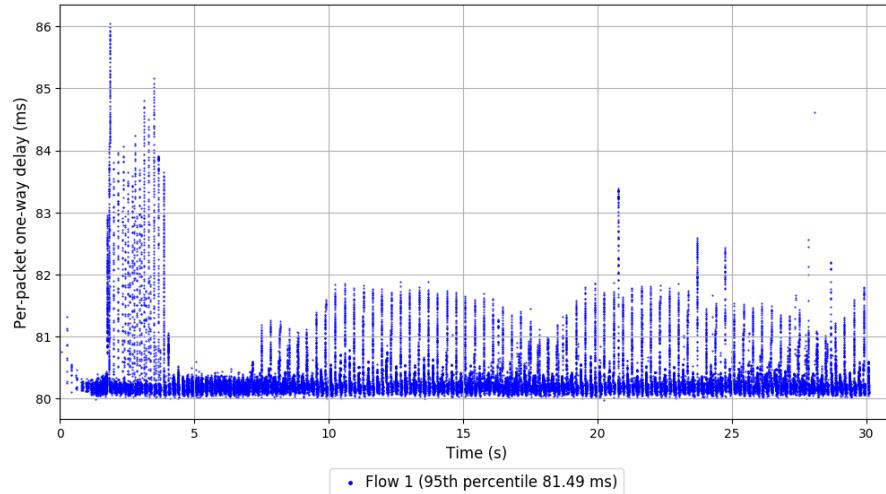
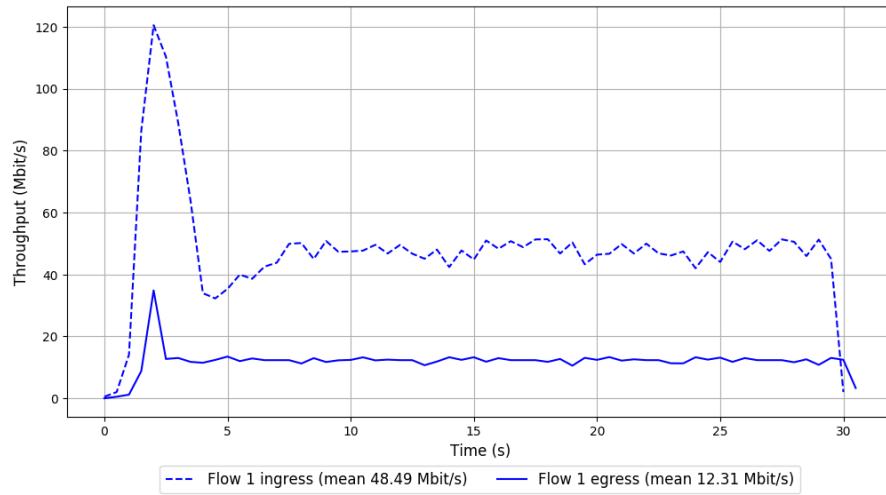


Run 5: Statistics of Copa

```
Start at: 2019-02-11 13:57:47
End at: 2019-02-11 13:58:17
Local clock offset: -2.959 ms
Remote clock offset: 0.95 ms

# Below is generated by plot.py at 2019-02-11 14:05:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 81.488 ms
Loss rate: 74.62%
-- Flow 1:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 81.488 ms
Loss rate: 74.62%
```

Run 5: Report of Copa — Data Link



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

```
Start at: 2019-02-11 12:20:50
```

```
End at: 2019-02-11 12:21:20
```

```
Local clock offset: -17.283 ms
```

```
Remote clock offset: 1.523 ms
```

```
# Below is generated by plot.py at 2019-02-11 14:05:24
```

```
# Datalink statistics
```

```
-- Total of 1 flow:
```

```
Average throughput: 61.68 Mbit/s
```

```
95th percentile per-packet one-way delay: 103.378 ms
```

```
Loss rate: 0.71%
```

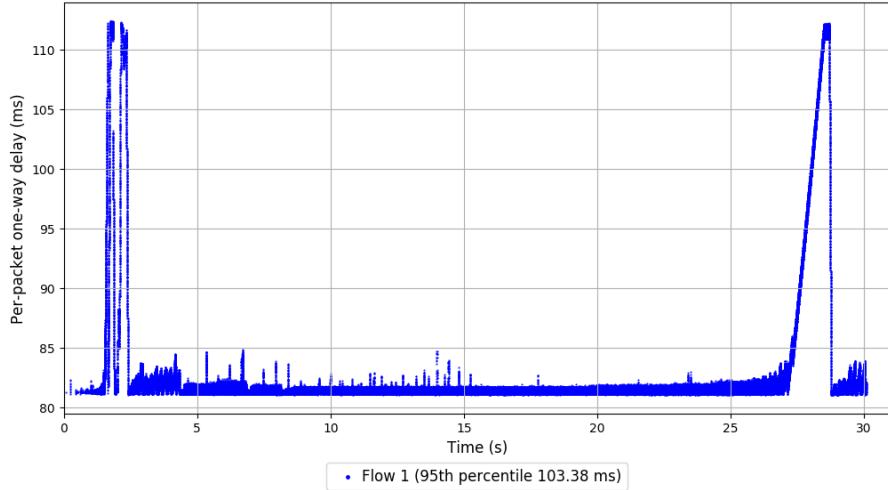
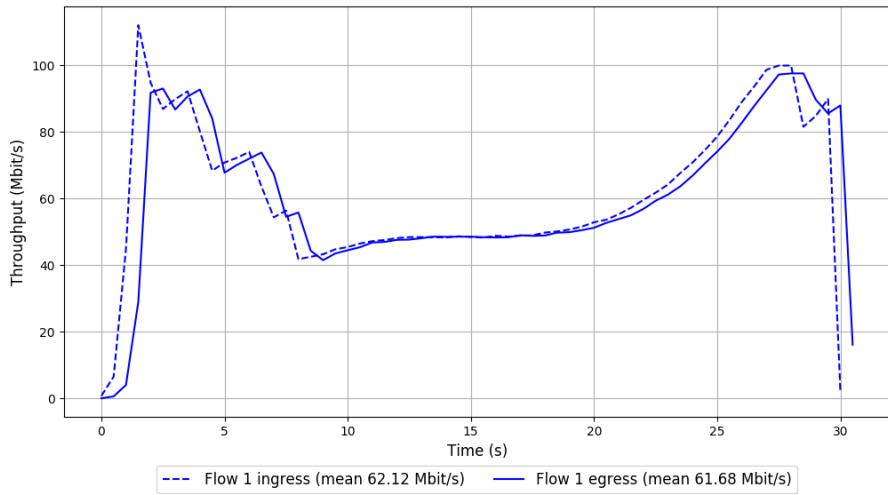
```
-- Flow 1:
```

```
Average throughput: 61.68 Mbit/s
```

```
95th percentile per-packet one-way delay: 103.378 ms
```

```
Loss rate: 0.71%
```

Run 1: Report of TCP Cubic — Data Link

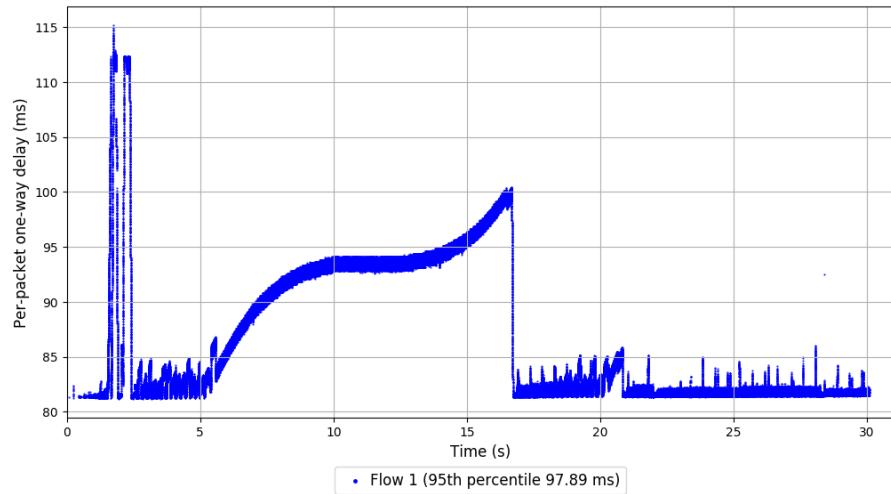
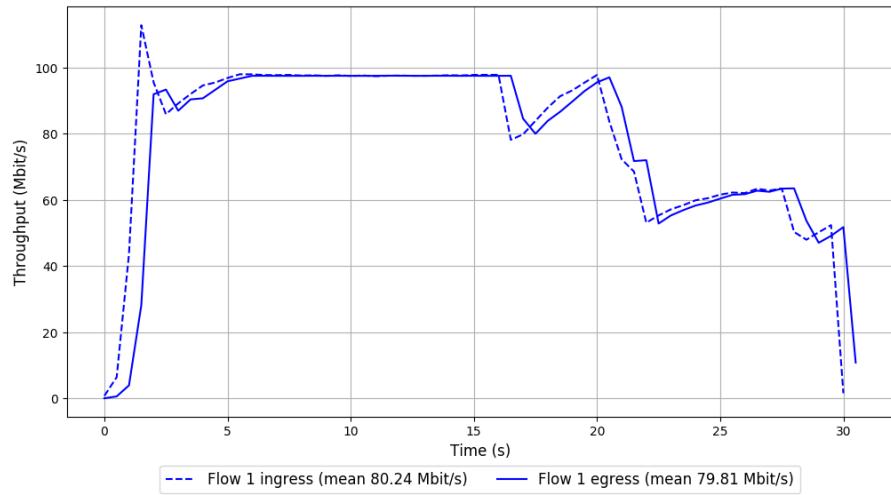


Run 2: Statistics of TCP Cubic

```
Start at: 2019-02-11 12:45:30
End at: 2019-02-11 12:46:00
Local clock offset: -9.058 ms
Remote clock offset: 1.267 ms

# Below is generated by plot.py at 2019-02-11 14:05:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.81 Mbit/s
95th percentile per-packet one-way delay: 97.895 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 79.81 Mbit/s
95th percentile per-packet one-way delay: 97.895 ms
Loss rate: 0.54%
```

Run 2: Report of TCP Cubic — Data Link

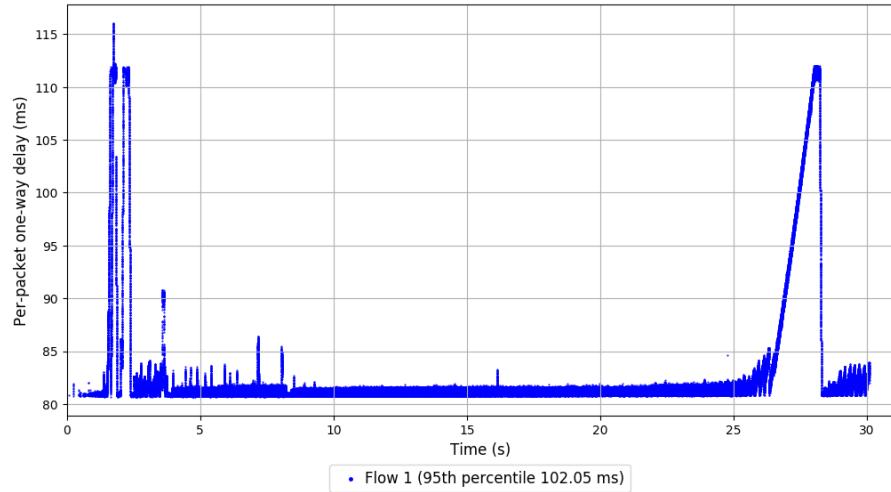
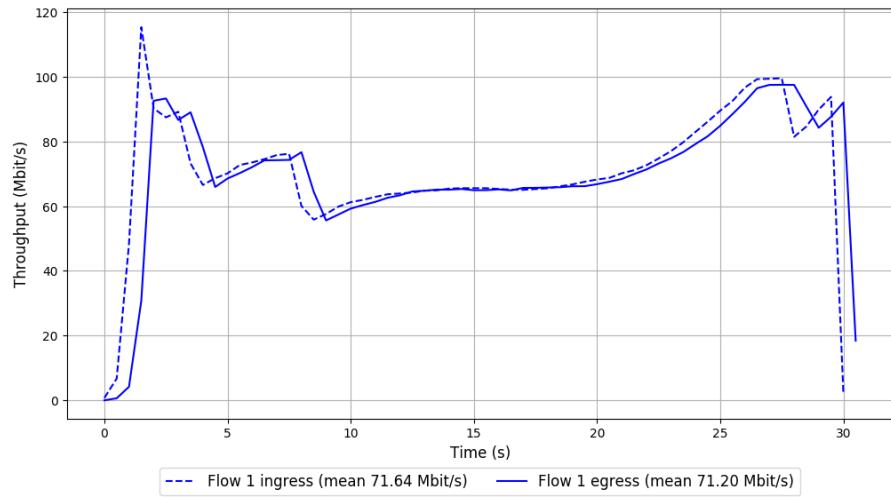


Run 3: Statistics of TCP Cubic

```
Start at: 2019-02-11 13:10:25
End at: 2019-02-11 13:10:55
Local clock offset: -6.132 ms
Remote clock offset: 1.379 ms

# Below is generated by plot.py at 2019-02-11 14:05:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.20 Mbit/s
95th percentile per-packet one-way delay: 102.051 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 71.20 Mbit/s
95th percentile per-packet one-way delay: 102.051 ms
Loss rate: 0.61%
```

Run 3: Report of TCP Cubic — Data Link

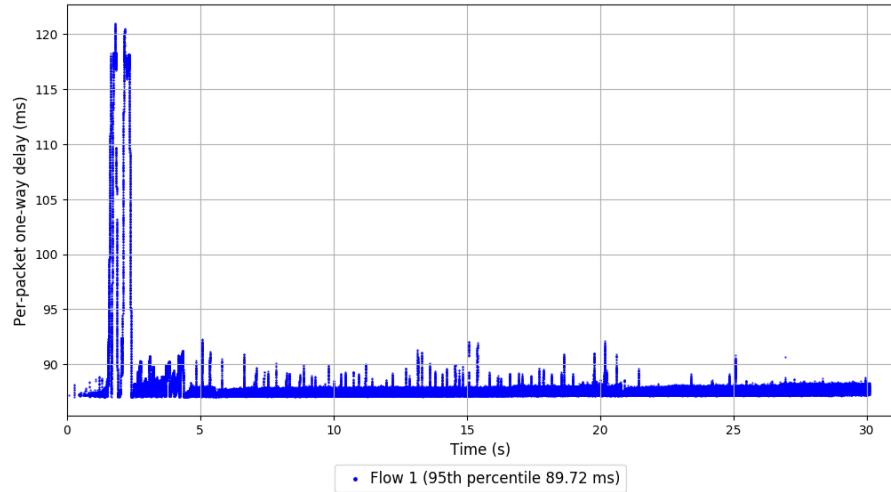
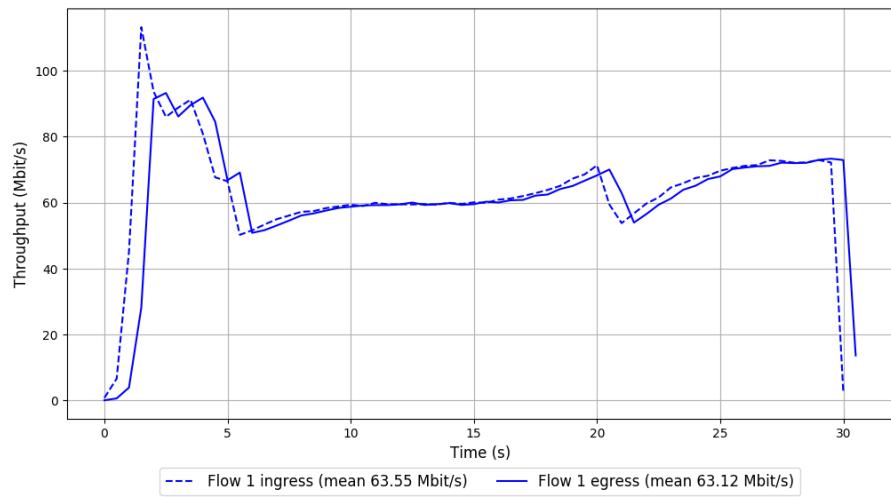


Run 4: Statistics of TCP Cubic

```
Start at: 2019-02-11 13:35:21
End at: 2019-02-11 13:35:51
Local clock offset: -5.325 ms
Remote clock offset: 5.933 ms

# Below is generated by plot.py at 2019-02-11 14:05:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.12 Mbit/s
95th percentile per-packet one-way delay: 89.718 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 63.12 Mbit/s
95th percentile per-packet one-way delay: 89.718 ms
Loss rate: 0.67%
```

Run 4: Report of TCP Cubic — Data Link

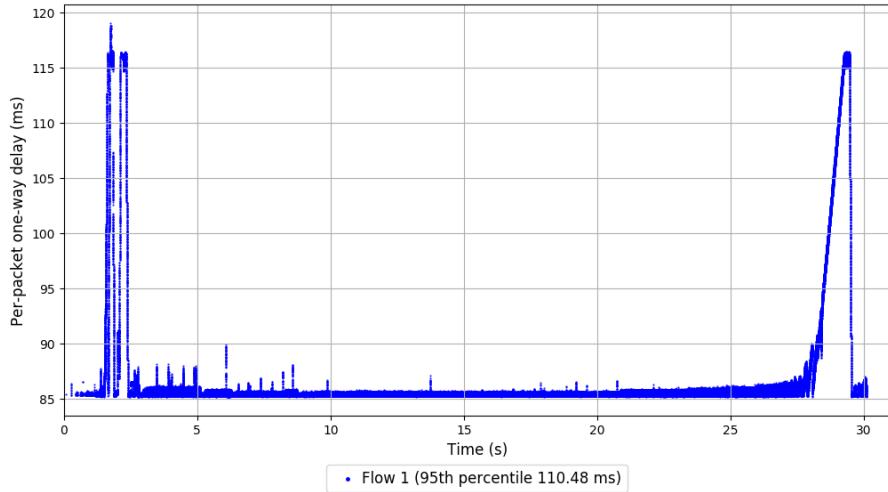
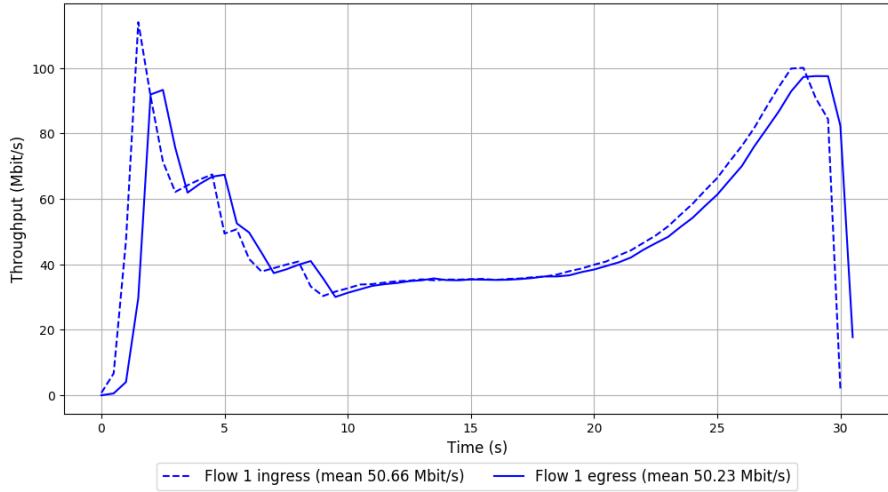


Run 5: Statistics of TCP Cubic

```
Start at: 2019-02-11 14:00:10
End at: 2019-02-11 14:00:40
Local clock offset: -2.982 ms
Remote clock offset: 6.209 ms

# Below is generated by plot.py at 2019-02-11 14:05:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 110.479 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 110.479 ms
Loss rate: 0.85%
```

Run 5: Report of TCP Cubic — Data Link

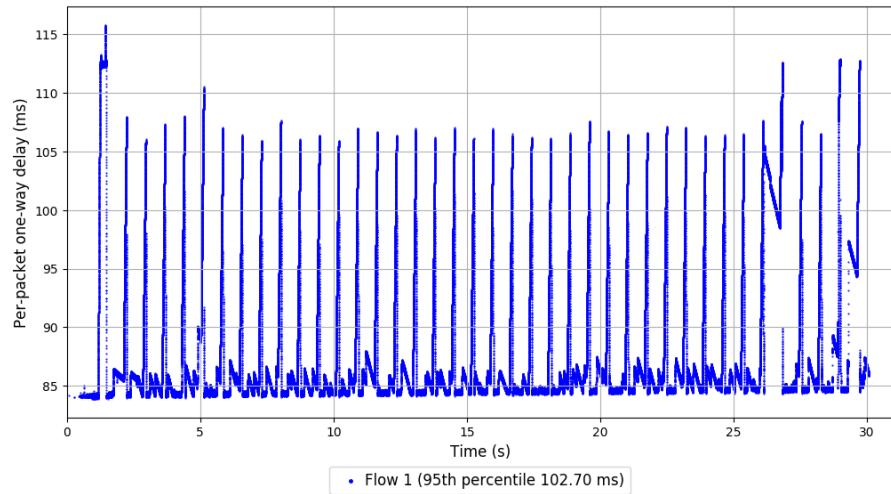
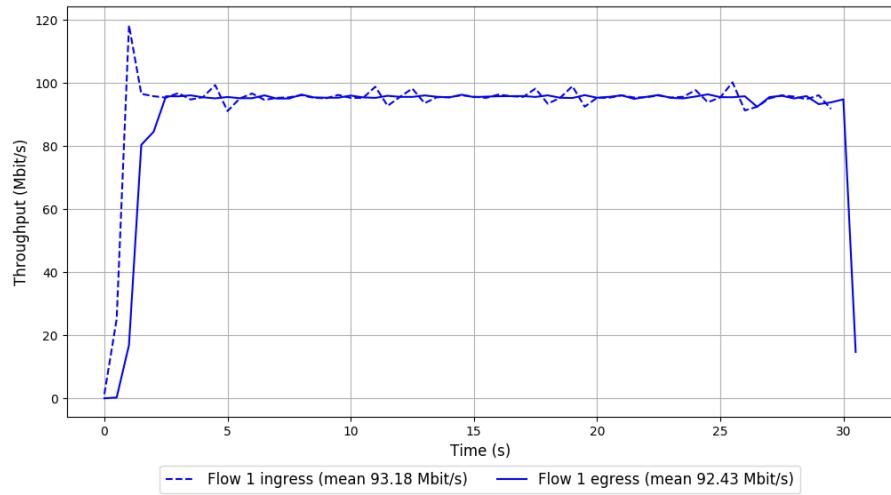


```
Run 1: Statistics of FillP
```

```
Start at: 2019-02-11 12:07:58
End at: 2019-02-11 12:08:28
Local clock offset: -22.721 ms
Remote clock offset: 2.796 ms

# Below is generated by plot.py at 2019-02-11 14:06:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 102.703 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 102.703 ms
Loss rate: 0.81%
```

Run 1: Report of FillP — Data Link

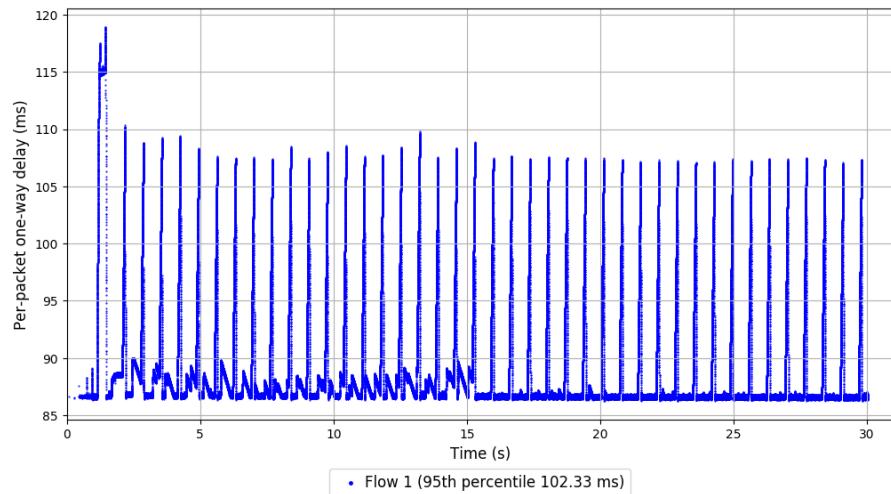
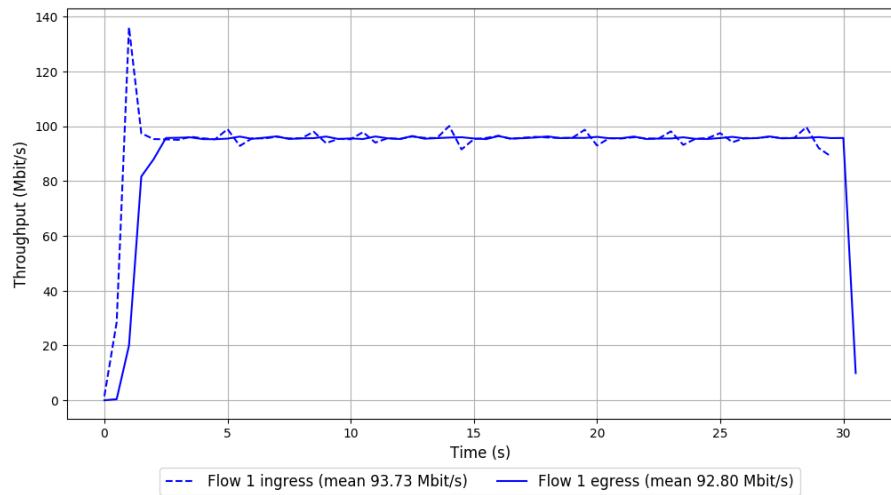


Run 2: Statistics of FillP

```
Start at: 2019-02-11 12:32:38
End at: 2019-02-11 12:33:08
Local clock offset: -21.077 ms
Remote clock offset: 7.6 ms

# Below is generated by plot.py at 2019-02-11 14:06:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.80 Mbit/s
95th percentile per-packet one-way delay: 102.325 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 92.80 Mbit/s
95th percentile per-packet one-way delay: 102.325 ms
Loss rate: 1.00%
```

Run 2: Report of FillP — Data Link

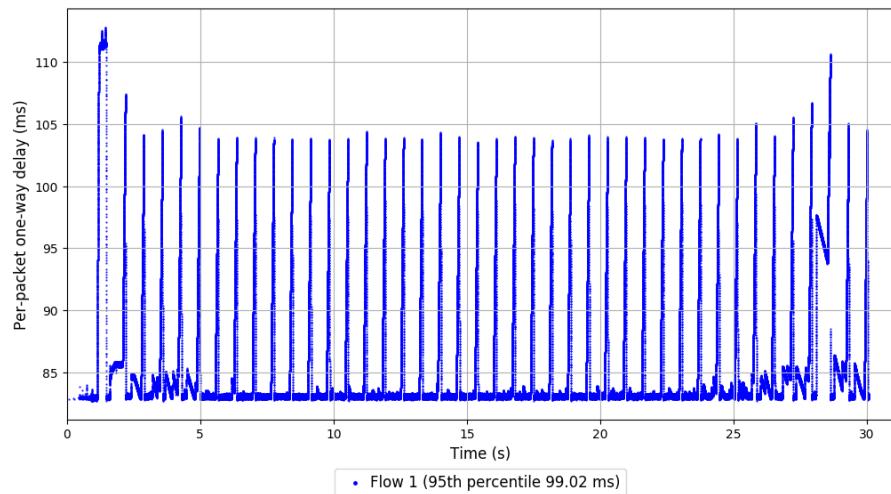
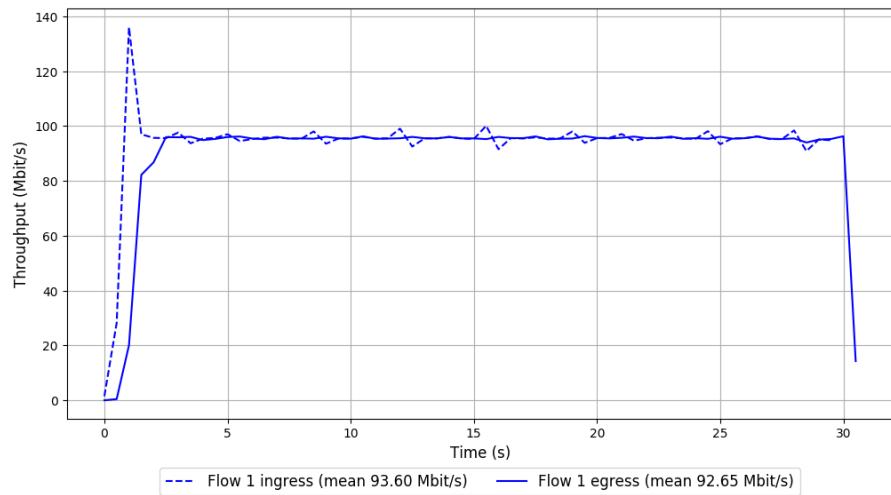


```
Run 3: Statistics of FillP
```

```
Start at: 2019-02-11 12:57:27
End at: 2019-02-11 12:57:57
Local clock offset: -7.9 ms
Remote clock offset: 1.767 ms

# Below is generated by plot.py at 2019-02-11 14:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.65 Mbit/s
95th percentile per-packet one-way delay: 99.022 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 92.65 Mbit/s
95th percentile per-packet one-way delay: 99.022 ms
Loss rate: 1.02%
```

Run 3: Report of FillP — Data Link

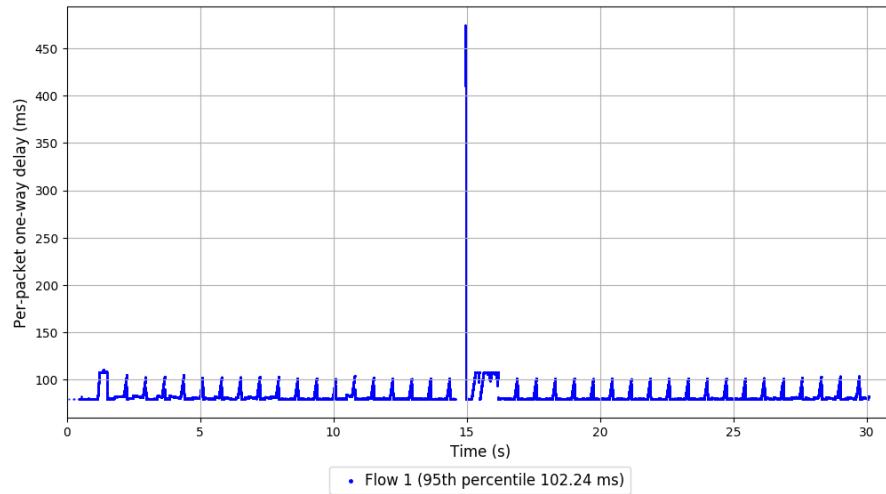
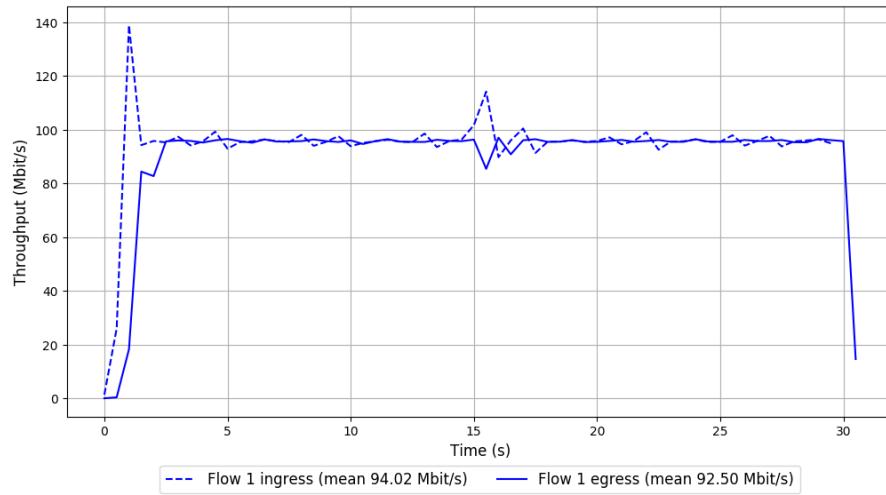


Run 4: Statistics of FillP

```
Start at: 2019-02-11 13:22:26
End at: 2019-02-11 13:22:56
Local clock offset: -4.354 ms
Remote clock offset: 1.263 ms

# Below is generated by plot.py at 2019-02-11 14:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.50 Mbit/s
95th percentile per-packet one-way delay: 102.242 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 92.50 Mbit/s
95th percentile per-packet one-way delay: 102.242 ms
Loss rate: 1.61%
```

Run 4: Report of FillP — Data Link

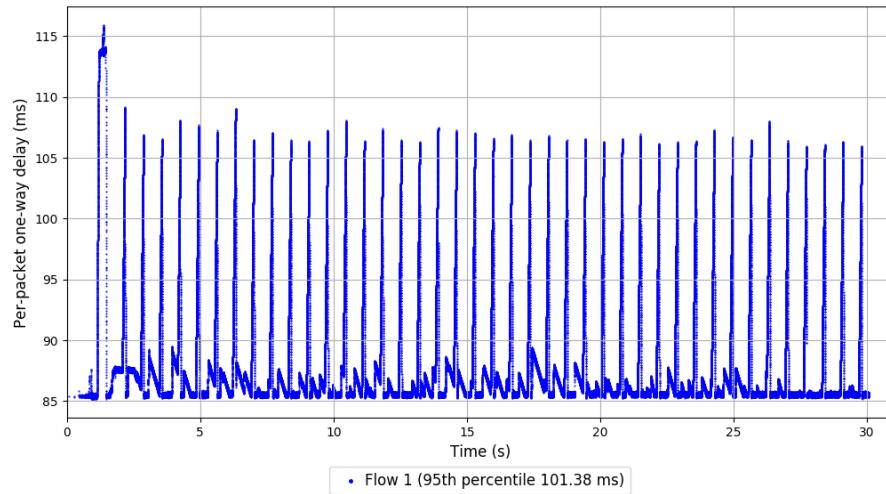
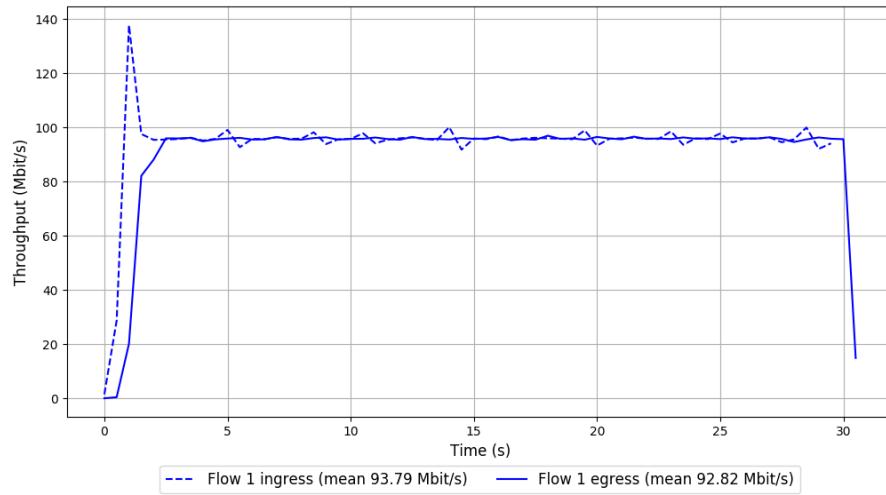


Run 5: Statistics of FillP

```
Start at: 2019-02-11 13:47:12
End at: 2019-02-11 13:47:43
Local clock offset: -2.498 ms
Remote clock offset: 7.102 ms

# Below is generated by plot.py at 2019-02-11 14:07:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.82 Mbit/s
95th percentile per-packet one-way delay: 101.380 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 92.82 Mbit/s
95th percentile per-packet one-way delay: 101.380 ms
Loss rate: 1.03%
```

Run 5: Report of FillP — Data Link

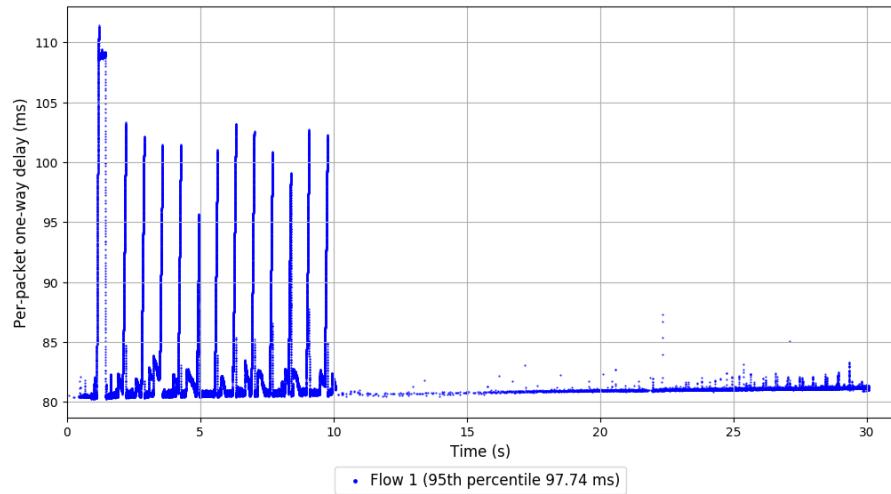
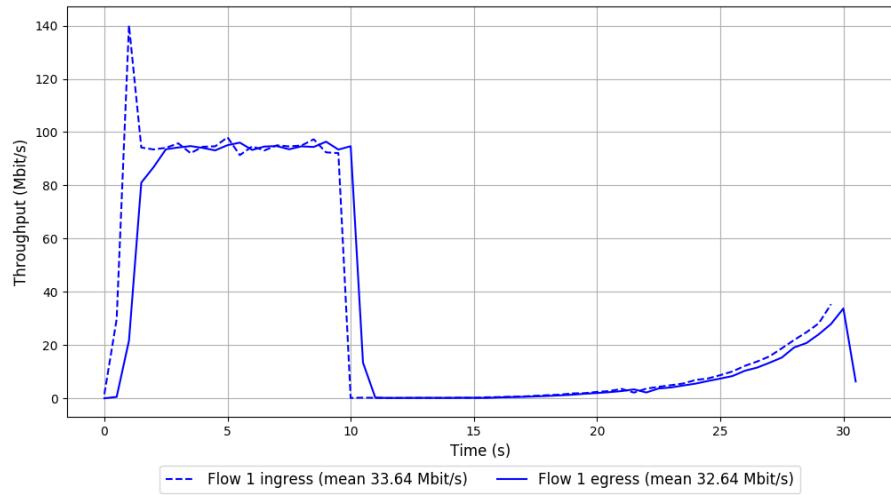


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-02-11 12:05:36
End at: 2019-02-11 12:06:06
Local clock offset: -25.95 ms
Remote clock offset: 1.749 ms

# Below is generated by plot.py at 2019-02-11 14:07:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.64 Mbit/s
95th percentile per-packet one-way delay: 97.741 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 32.64 Mbit/s
95th percentile per-packet one-way delay: 97.741 ms
Loss rate: 2.97%
```

Run 1: Report of FillP-Sheep — Data Link

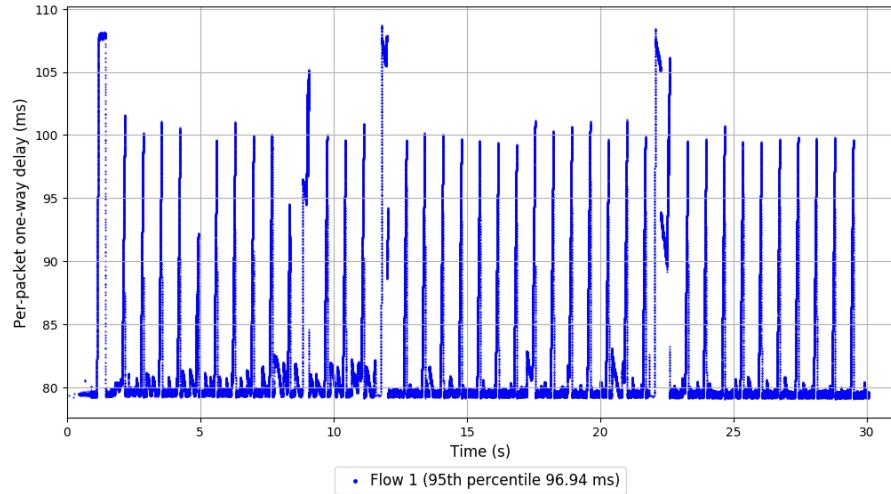
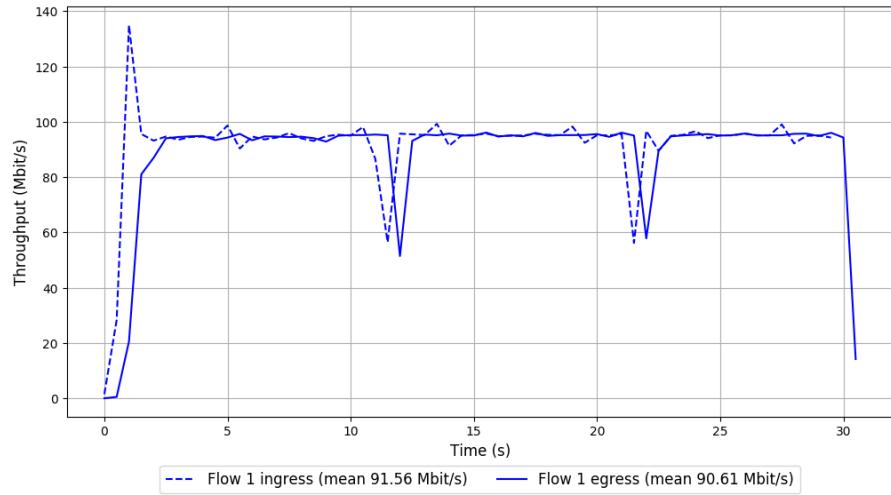


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-02-11 12:30:14
End at: 2019-02-11 12:30:44
Local clock offset: -20.237 ms
Remote clock offset: 1.294 ms

# Below is generated by plot.py at 2019-02-11 14:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 96.935 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 96.935 ms
Loss rate: 1.04%
```

Run 2: Report of FillP-Sheep — Data Link

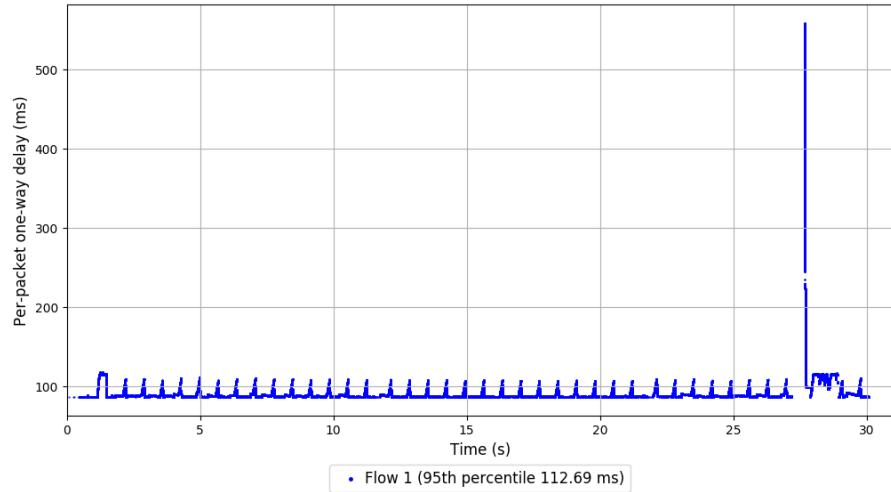
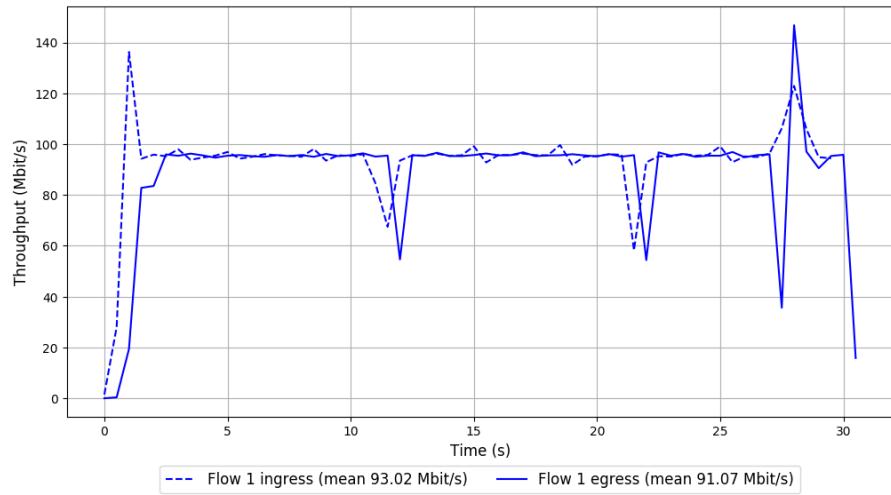


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-02-11 12:54:59
End at: 2019-02-11 12:55:30
Local clock offset: -7.146 ms
Remote clock offset: 7.172 ms

# Below is generated by plot.py at 2019-02-11 14:07:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.07 Mbit/s
95th percentile per-packet one-way delay: 112.695 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 91.07 Mbit/s
95th percentile per-packet one-way delay: 112.695 ms
Loss rate: 2.10%
```

Run 3: Report of FillP-Sheep — Data Link

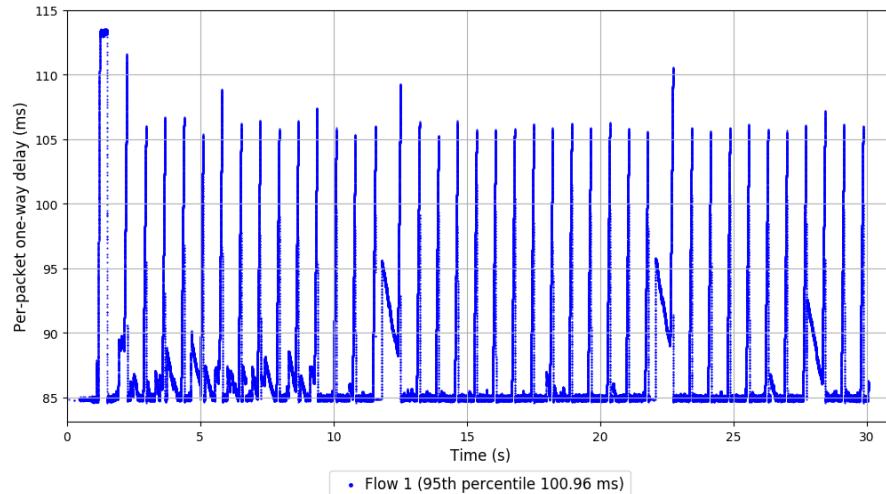
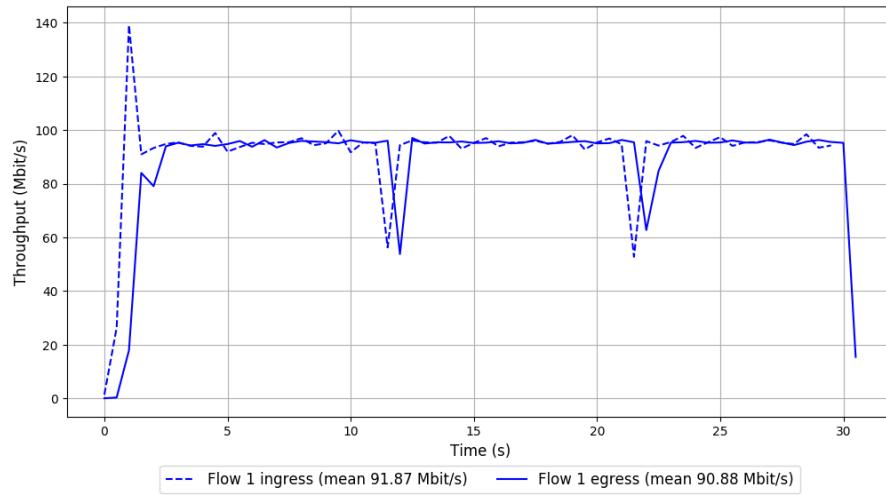


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-02-11 13:20:02
End at: 2019-02-11 13:20:32
Local clock offset: -5.104 ms
Remote clock offset: 5.291 ms

# Below is generated by plot.py at 2019-02-11 14:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.88 Mbit/s
95th percentile per-packet one-way delay: 100.958 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 90.88 Mbit/s
95th percentile per-packet one-way delay: 100.958 ms
Loss rate: 1.08%
```

Run 4: Report of FillP-Sheep — Data Link

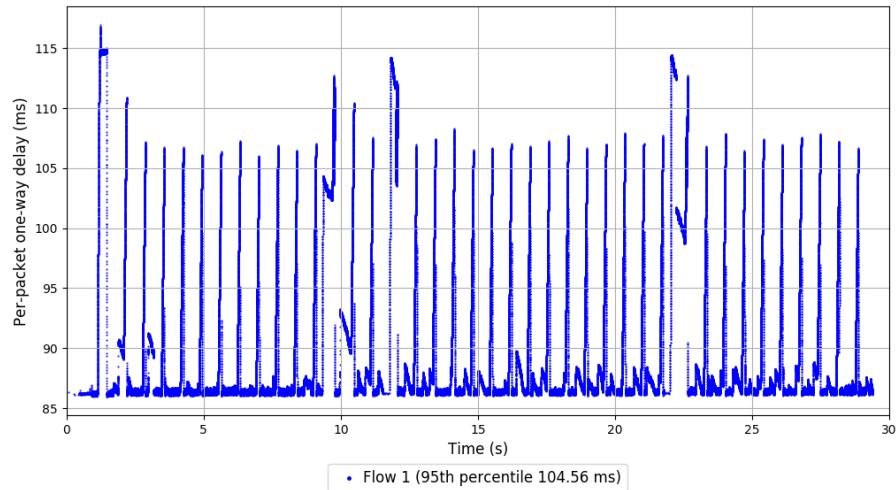
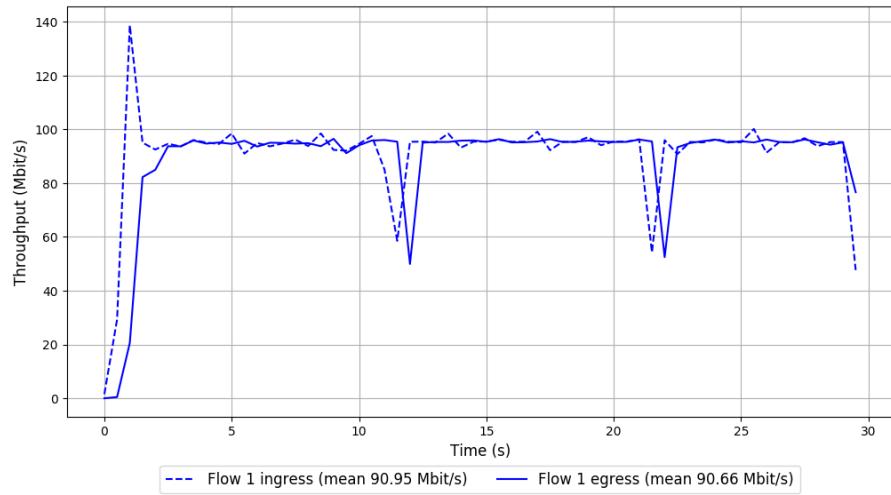


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-02-11 13:44:49
End at: 2019-02-11 13:45:19
Local clock offset: -3.39 ms
Remote clock offset: 7.182 ms

# Below is generated by plot.py at 2019-02-11 14:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.66 Mbit/s
95th percentile per-packet one-way delay: 104.559 ms
Loss rate: 2.59%
-- Flow 1:
Average throughput: 90.66 Mbit/s
95th percentile per-packet one-way delay: 104.559 ms
Loss rate: 2.59%
```

Run 5: Report of FillP-Sheep — Data Link

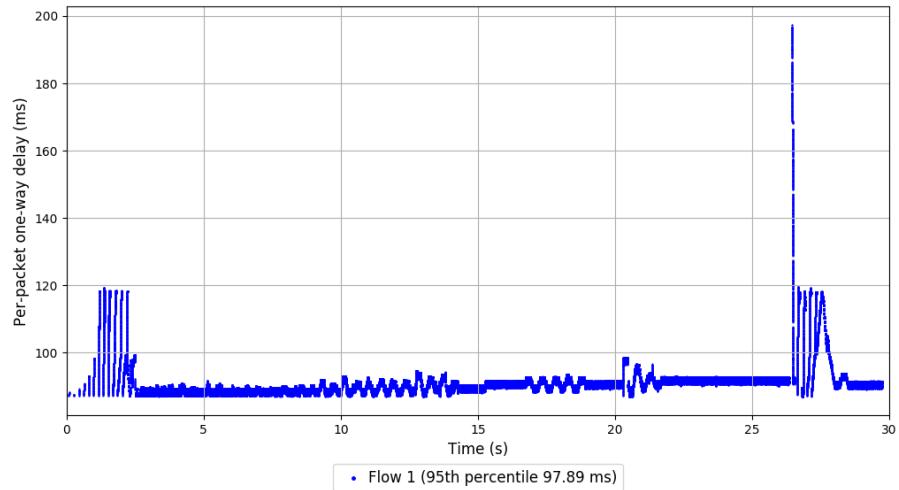
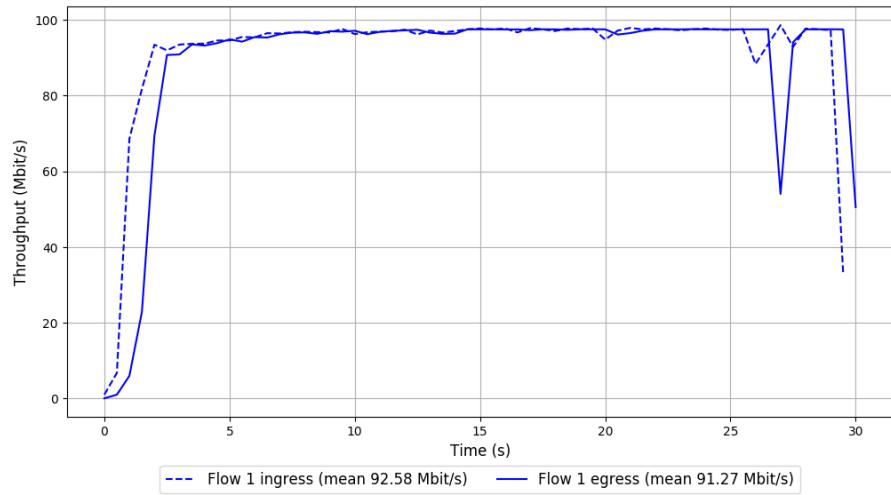


Run 1: Statistics of Indigo

```
Start at: 2019-02-11 11:59:41
End at: 2019-02-11 12:00:12
Local clock offset: -25.309 ms
Remote clock offset: 7.66 ms

# Below is generated by plot.py at 2019-02-11 14:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.27 Mbit/s
95th percentile per-packet one-way delay: 97.889 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 91.27 Mbit/s
95th percentile per-packet one-way delay: 97.889 ms
Loss rate: 1.40%
```

Run 1: Report of Indigo — Data Link

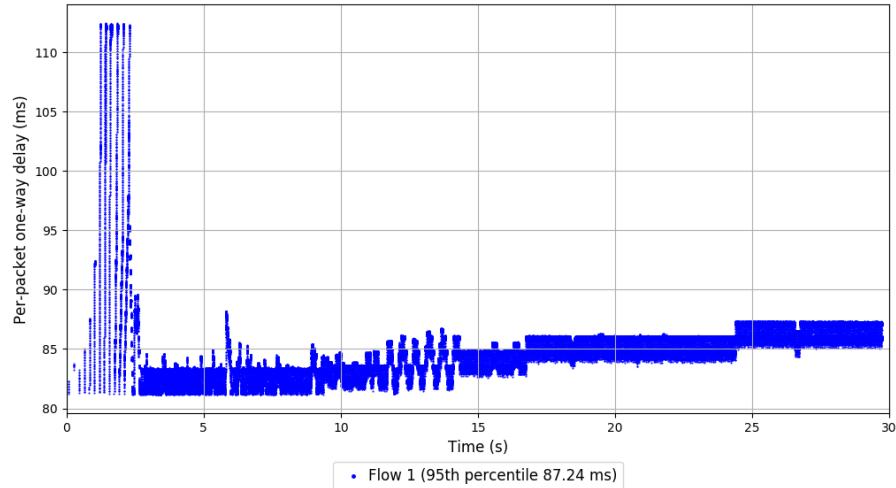
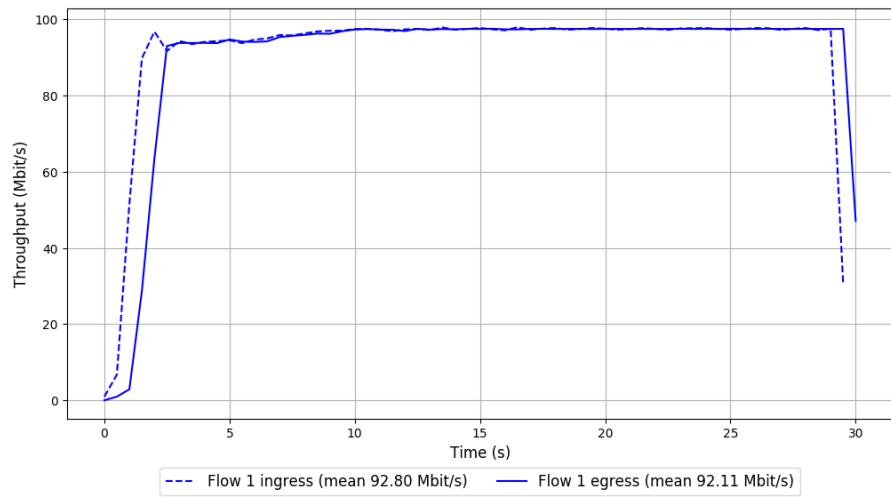


Run 2: Statistics of Indigo

```
Start at: 2019-02-11 12:24:20
End at: 2019-02-11 12:24:50
Local clock offset: -18.594 ms
Remote clock offset: 1.213 ms

# Below is generated by plot.py at 2019-02-11 14:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.11 Mbit/s
95th percentile per-packet one-way delay: 87.239 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 92.11 Mbit/s
95th percentile per-packet one-way delay: 87.239 ms
Loss rate: 0.72%
```

Run 2: Report of Indigo — Data Link

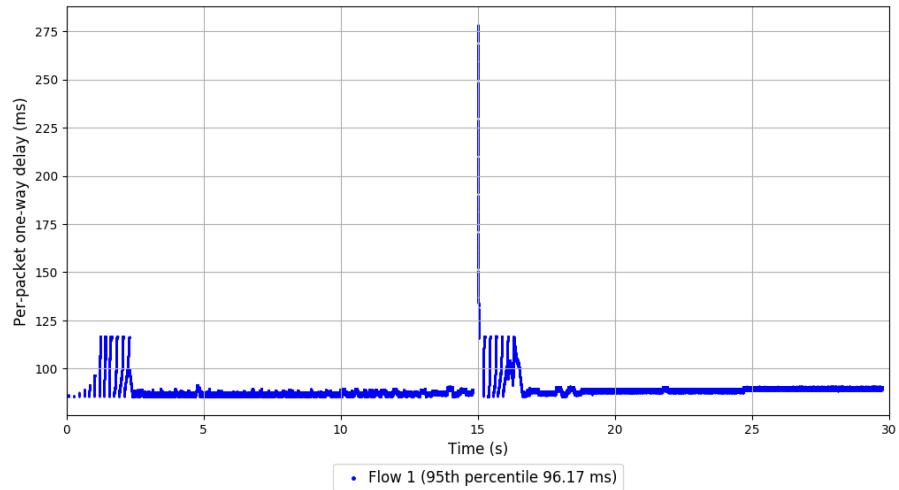
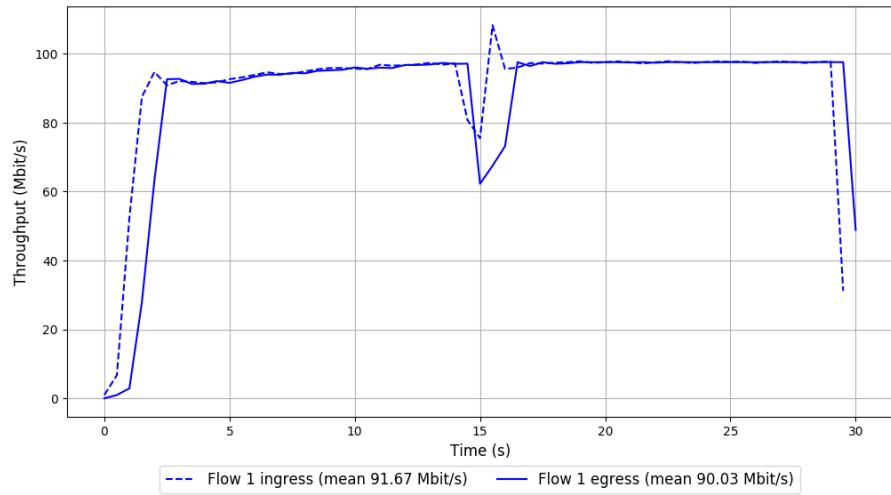


Run 3: Statistics of Indigo

```
Start at: 2019-02-11 12:49:02
End at: 2019-02-11 12:49:32
Local clock offset: -7.889 ms
Remote clock offset: 6.066 ms

# Below is generated by plot.py at 2019-02-11 14:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.03 Mbit/s
95th percentile per-packet one-way delay: 96.169 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 90.03 Mbit/s
95th percentile per-packet one-way delay: 96.169 ms
Loss rate: 1.78%
```

Run 3: Report of Indigo — Data Link

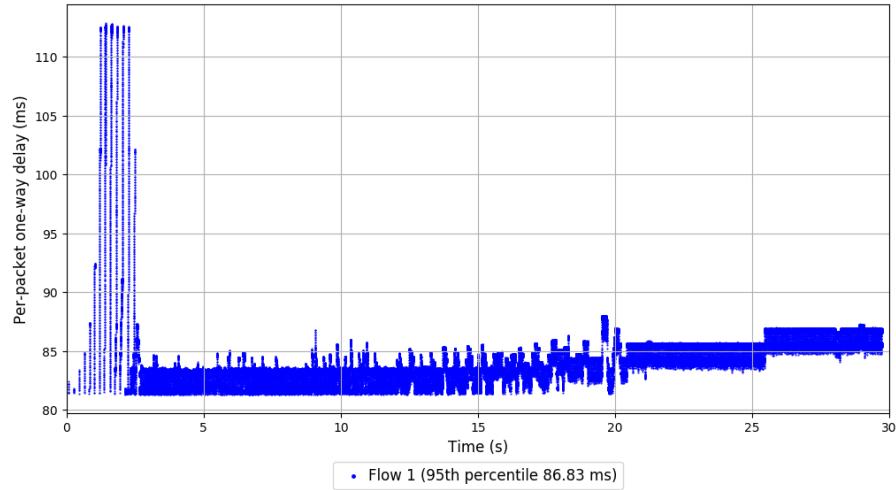
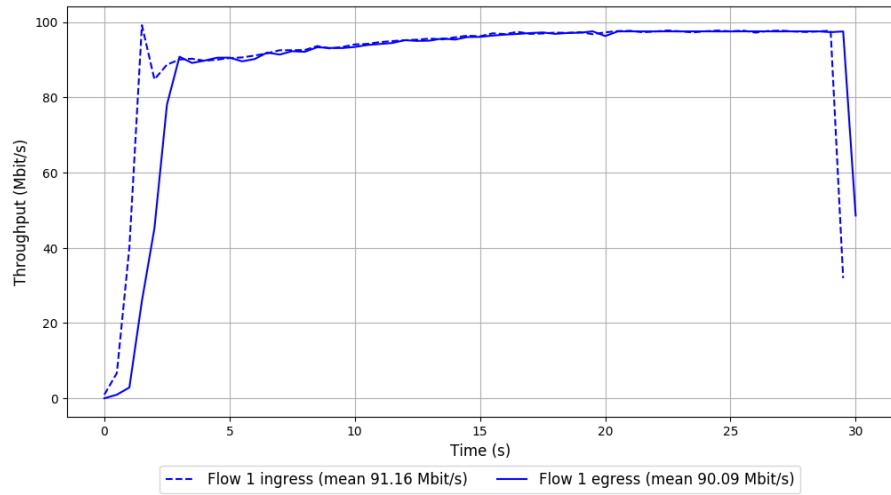


Run 4: Statistics of Indigo

```
Start at: 2019-02-11 13:14:05
End at: 2019-02-11 13:14:35
Local clock offset: -4.768 ms
Remote clock offset: 0.182 ms

# Below is generated by plot.py at 2019-02-11 14:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 86.835 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 86.835 ms
Loss rate: 1.17%
```

Run 4: Report of Indigo — Data Link

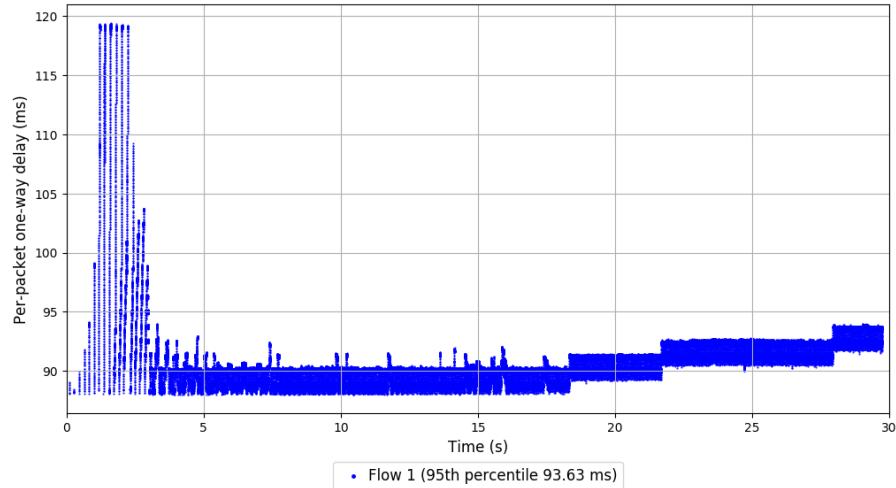
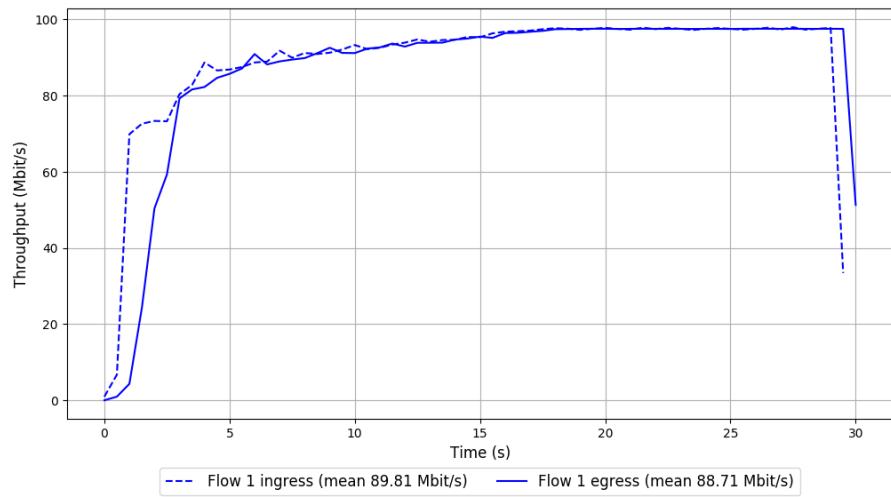


Run 5: Statistics of Indigo

```
Start at: 2019-02-11 13:38:52
End at: 2019-02-11 13:39:22
Local clock offset: -4.309 ms
Remote clock offset: 6.153 ms

# Below is generated by plot.py at 2019-02-11 14:08:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.71 Mbit/s
95th percentile per-packet one-way delay: 93.633 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 88.71 Mbit/s
95th percentile per-packet one-way delay: 93.633 ms
Loss rate: 1.22%
```

Run 5: Report of Indigo — Data Link

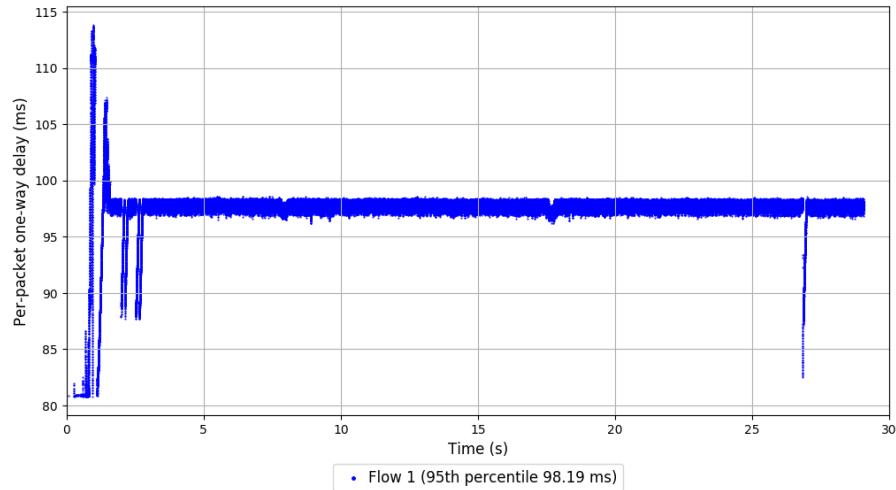
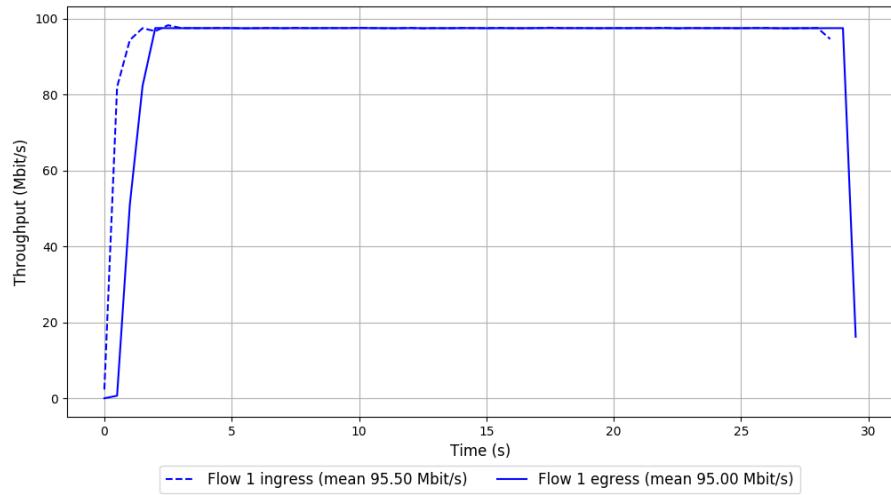


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-02-11 12:22:01
End at: 2019-02-11 12:22:31
Local clock offset: -18.163 ms
Remote clock offset: 2.434 ms

# Below is generated by plot.py at 2019-02-11 14:08:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.00 Mbit/s
95th percentile per-packet one-way delay: 98.187 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 95.00 Mbit/s
95th percentile per-packet one-way delay: 98.187 ms
Loss rate: 0.47%
```

Run 1: Report of Indigo-MusesC3 — Data Link

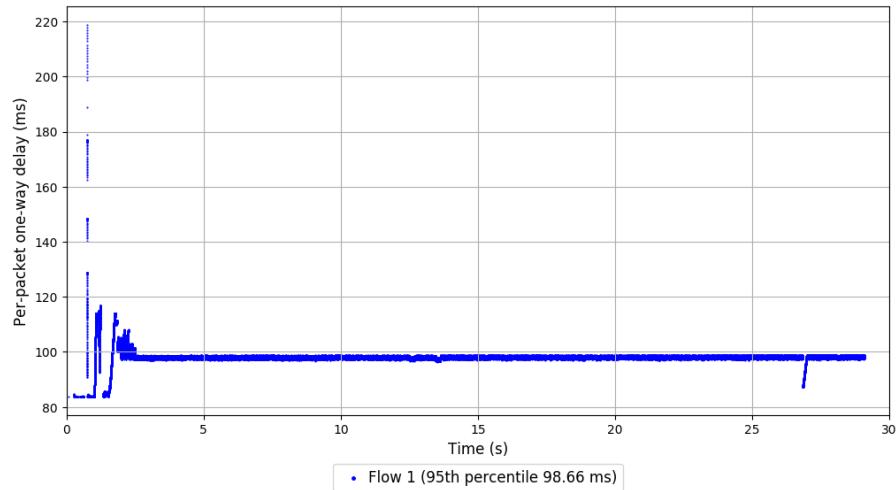
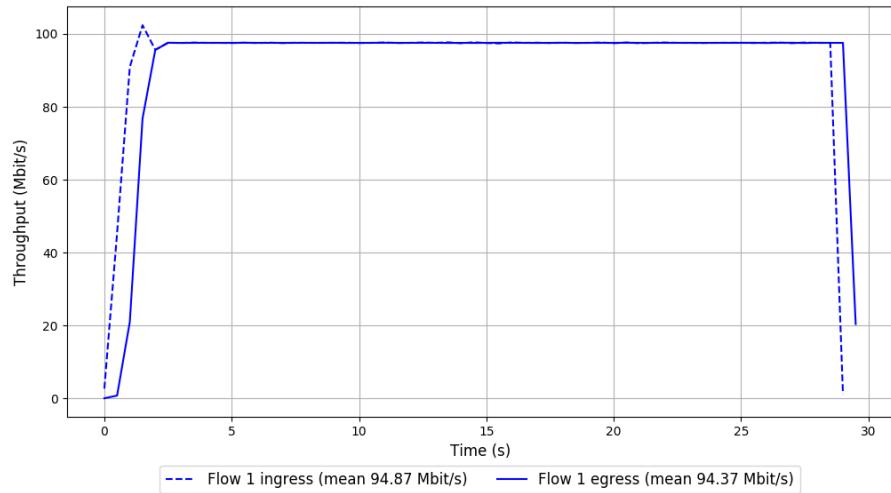


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-02-11 12:46:42
End at: 2019-02-11 12:47:12
Local clock offset: -9.3 ms
Remote clock offset: 5.203 ms

# Below is generated by plot.py at 2019-02-11 14:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 98.659 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 98.659 ms
Loss rate: 0.48%
```

Run 2: Report of Indigo-MusesC3 — Data Link

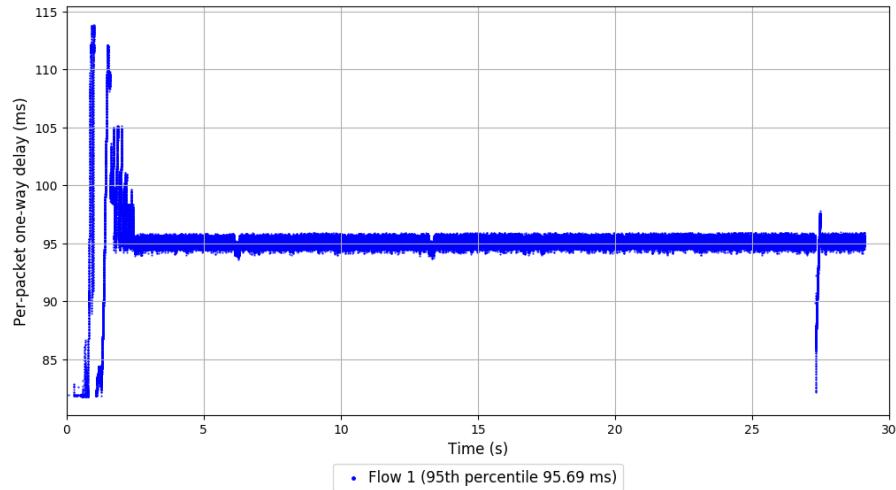
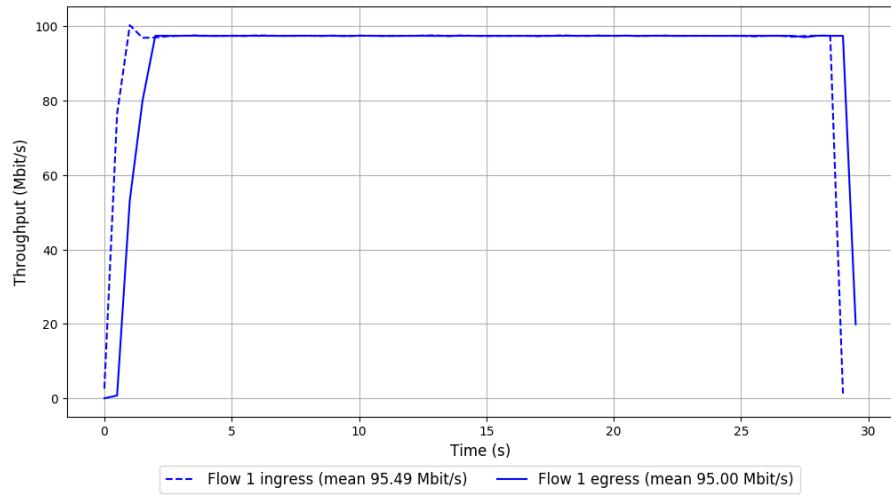


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-02-11 13:11:43
End at: 2019-02-11 13:12:13
Local clock offset: -5.843 ms
Remote clock offset: 1.495 ms

# Below is generated by plot.py at 2019-02-11 14:08:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.00 Mbit/s
95th percentile per-packet one-way delay: 95.695 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 95.00 Mbit/s
95th percentile per-packet one-way delay: 95.695 ms
Loss rate: 0.47%
```

Run 3: Report of Indigo-MusesC3 — Data Link

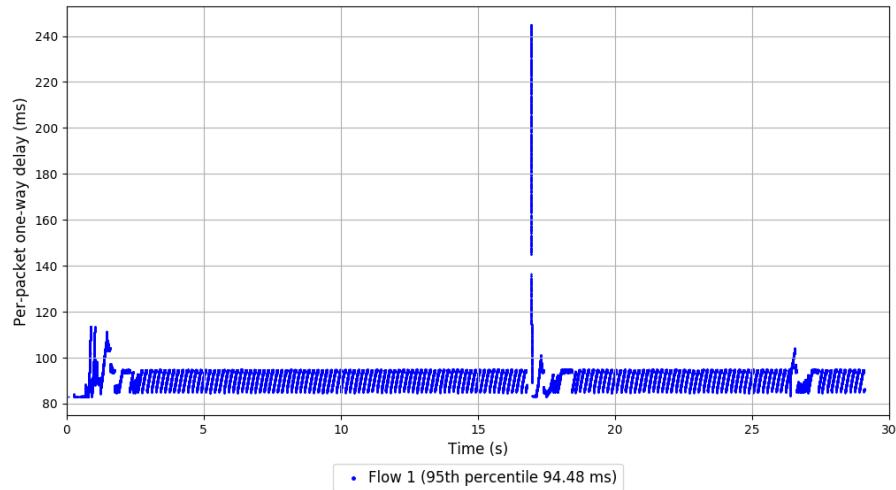
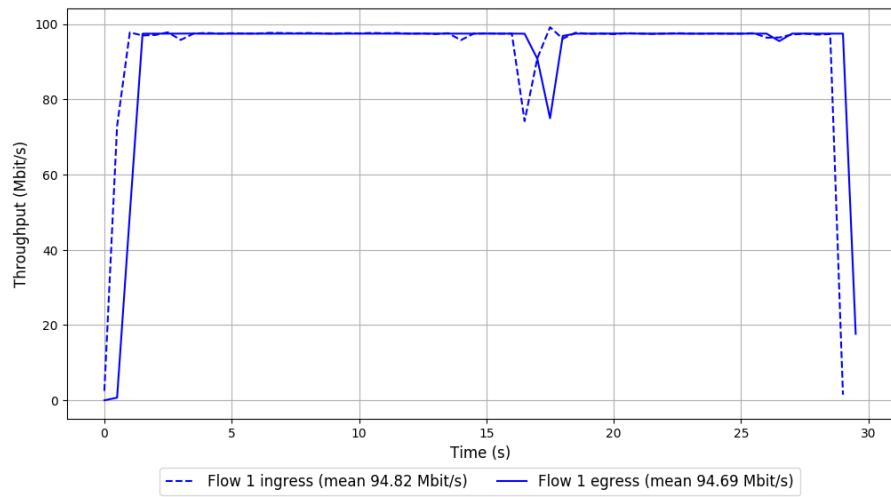


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-02-11 13:36:32
End at: 2019-02-11 13:37:02
Local clock offset: -4.159 ms
Remote clock offset: 1.946 ms

# Below is generated by plot.py at 2019-02-11 14:08:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.69 Mbit/s
95th percentile per-packet one-way delay: 94.477 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 94.69 Mbit/s
95th percentile per-packet one-way delay: 94.477 ms
Loss rate: 0.13%
```

Run 4: Report of Indigo-MusesC3 — Data Link

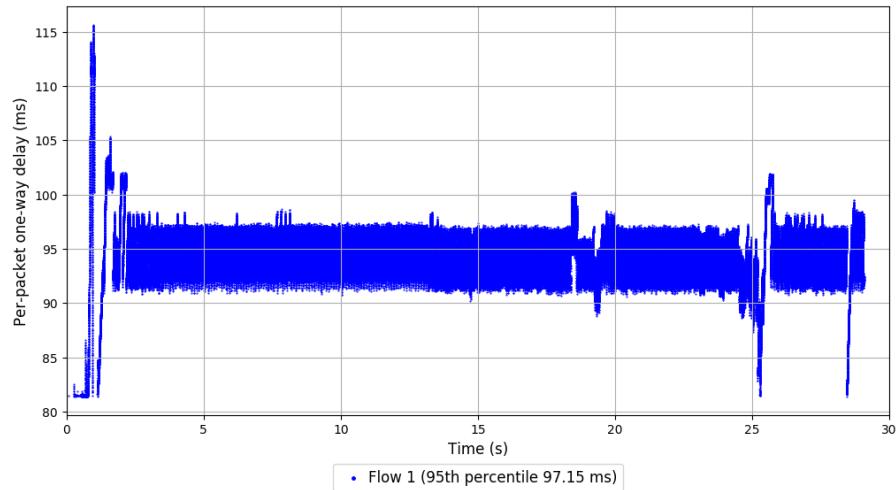
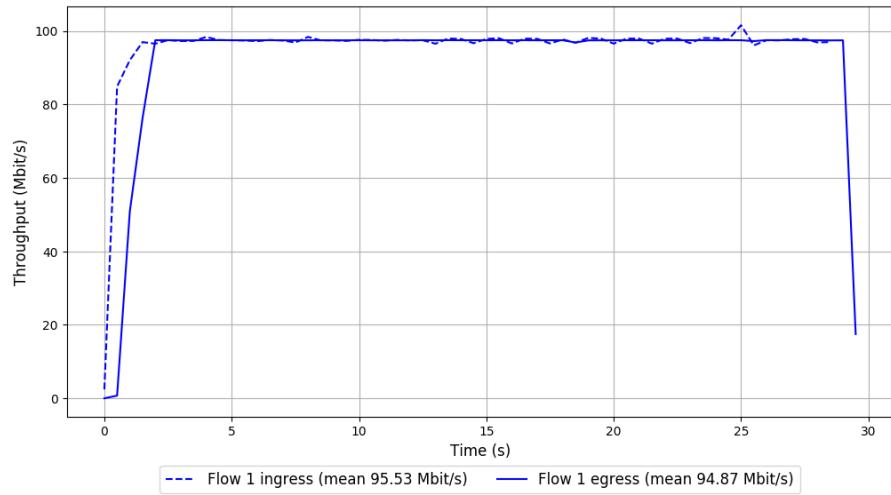


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-02-11 14:01:21
End at: 2019-02-11 14:01:51
Local clock offset: -2.249 ms
Remote clock offset: 0.724 ms

# Below is generated by plot.py at 2019-02-11 14:08:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.87 Mbit/s
95th percentile per-packet one-way delay: 97.147 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 94.87 Mbit/s
95th percentile per-packet one-way delay: 97.147 ms
Loss rate: 0.66%
```

Run 5: Report of Indigo-MusesC3 — Data Link

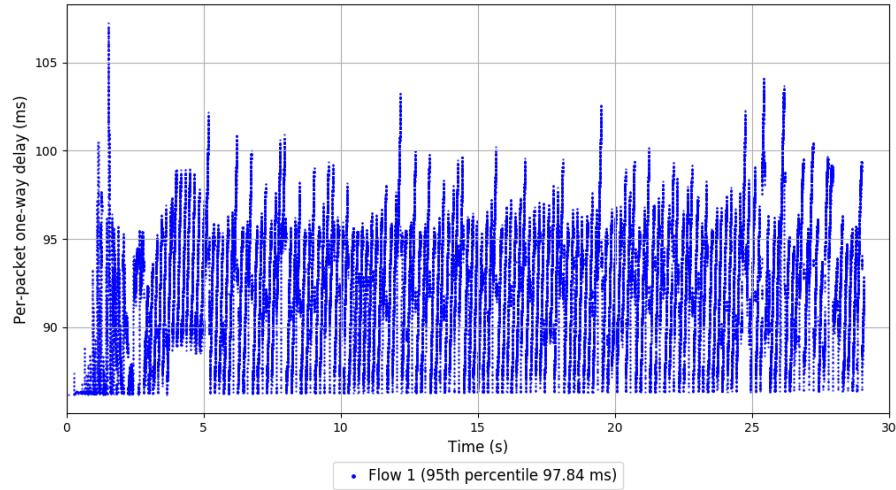
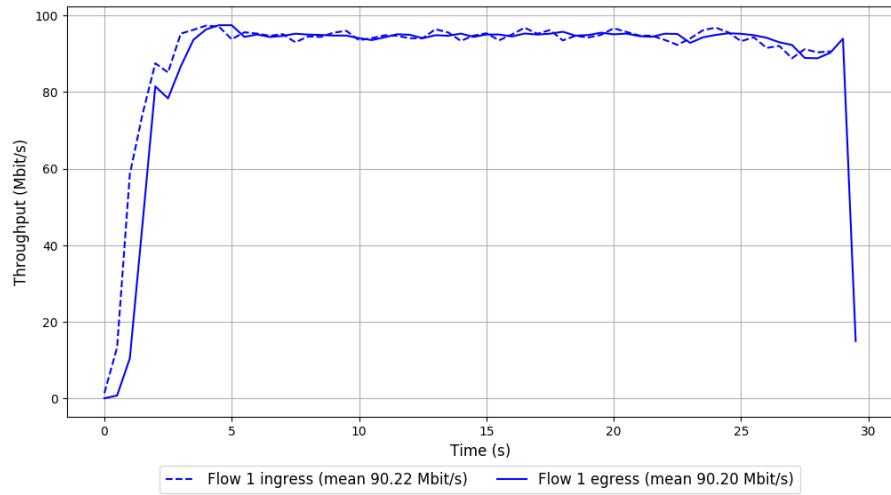


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-02-11 12:13:49
End at: 2019-02-11 12:14:19
Local clock offset: -18.622 ms
Remote clock offset: 7.955 ms

# Below is generated by plot.py at 2019-02-11 14:09:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.20 Mbit/s
95th percentile per-packet one-way delay: 97.839 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.20 Mbit/s
95th percentile per-packet one-way delay: 97.839 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC5 — Data Link

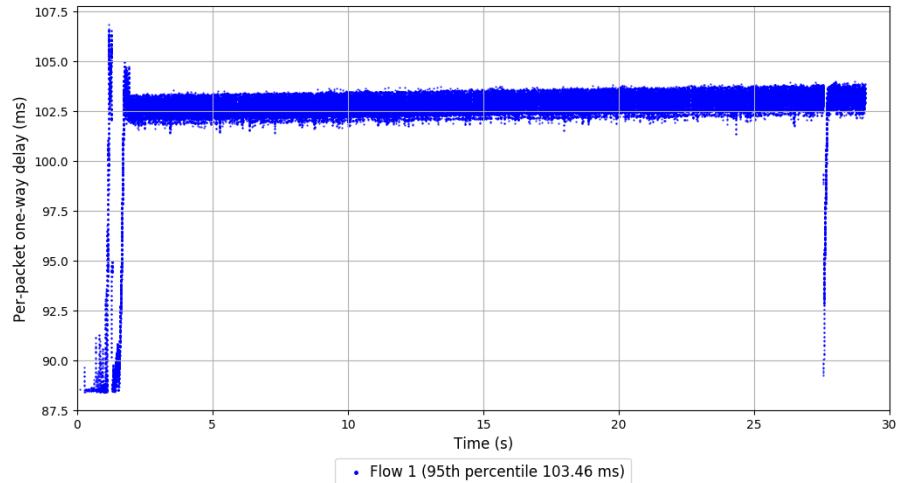
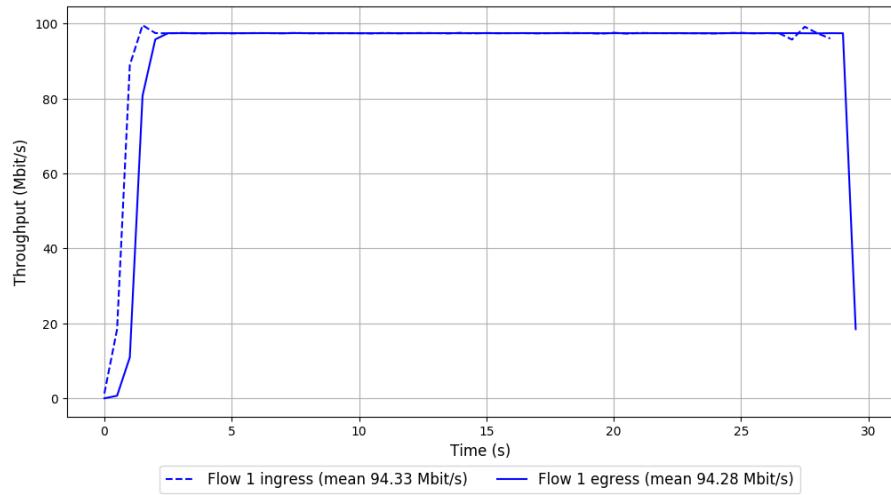


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-02-11 12:38:29
End at: 2019-02-11 12:38:59
Local clock offset: -15.472 ms
Remote clock offset: 6.614 ms

# Below is generated by plot.py at 2019-02-11 14:09:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 103.462 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 103.462 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesC5 — Data Link

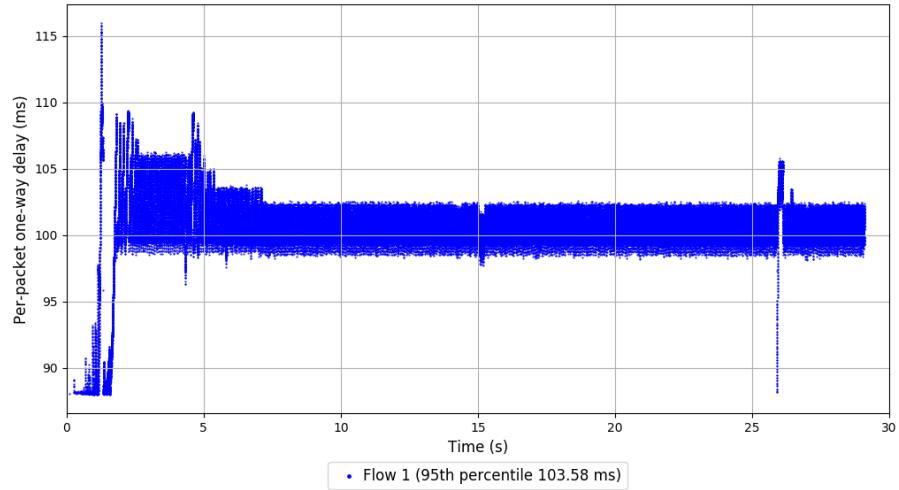
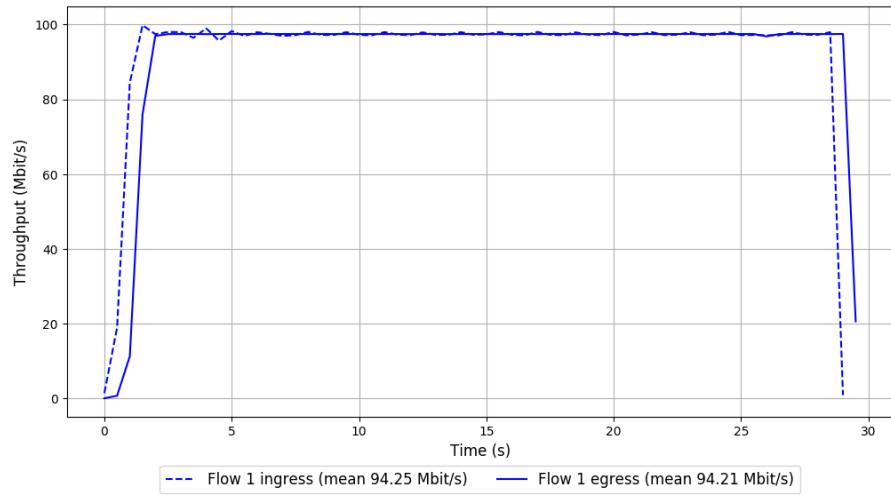


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-02-11 13:03:23
End at: 2019-02-11 13:03:53
Local clock offset: -8.289 ms
Remote clock offset: 6.727 ms

# Below is generated by plot.py at 2019-02-11 14:09:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 103.578 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 103.578 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesC5 — Data Link

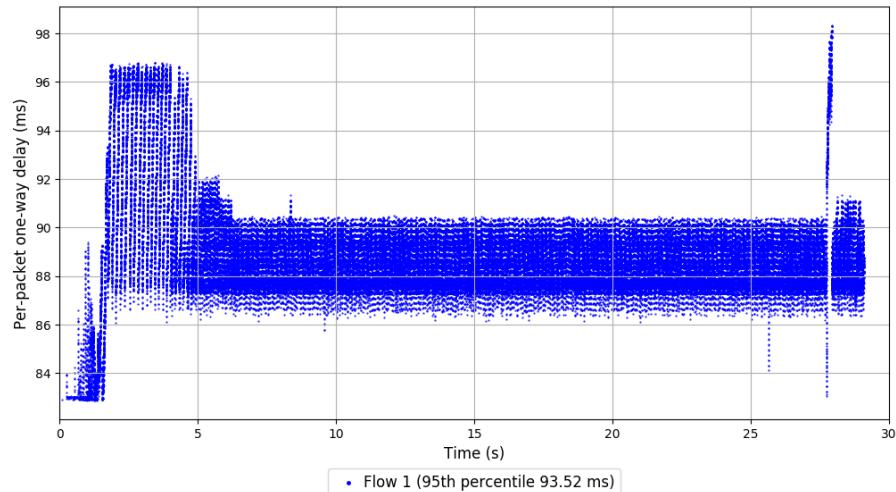
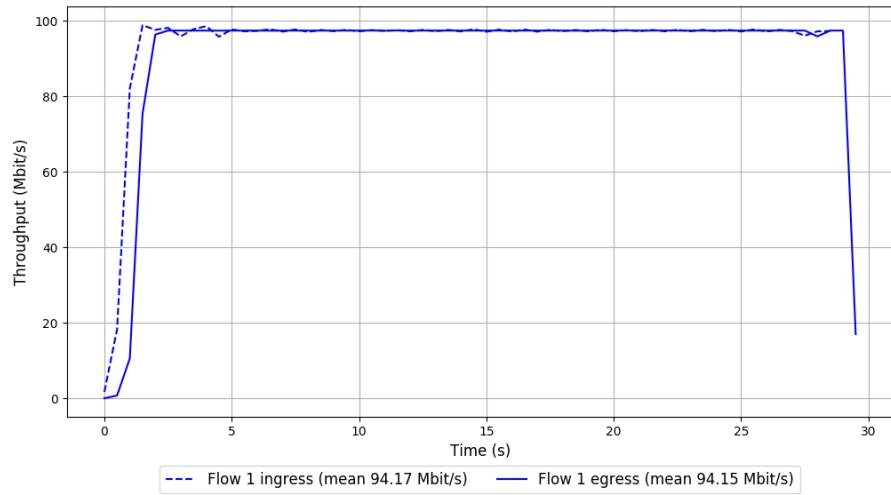


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-02-11 13:28:18
End at: 2019-02-11 13:28:48
Local clock offset: -4.533 ms
Remote clock offset: 4.553 ms

# Below is generated by plot.py at 2019-02-11 14:09:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 93.515 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 93.515 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC5 — Data Link

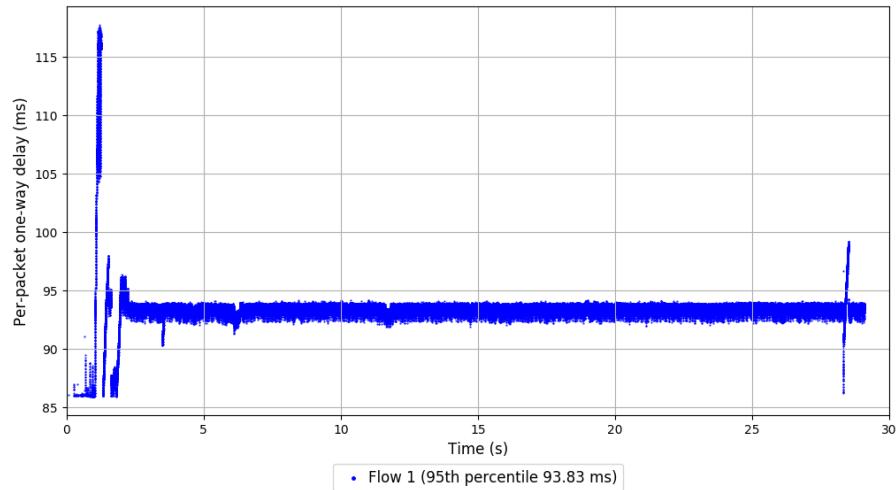
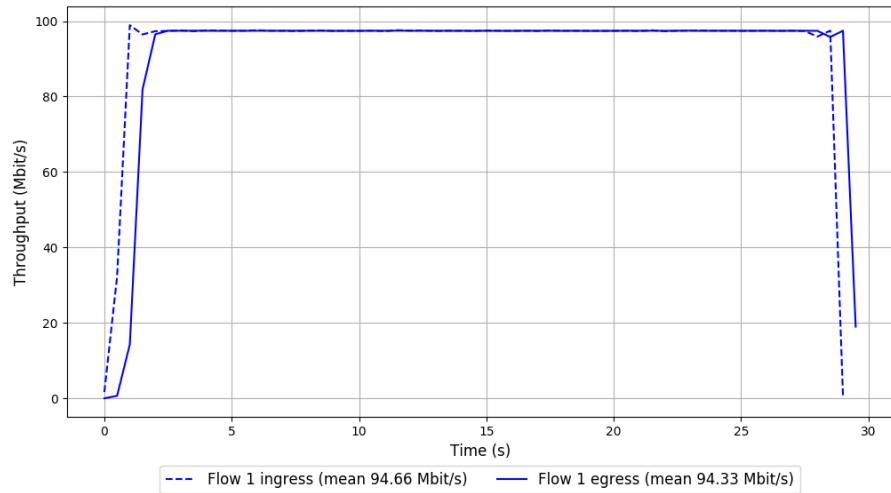


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-02-11 13:53:04
End at: 2019-02-11 13:53:34
Local clock offset: -3.044 ms
Remote clock offset: 7.125 ms

# Below is generated by plot.py at 2019-02-11 14:09:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.33 Mbit/s
95th percentile per-packet one-way delay: 93.830 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 94.33 Mbit/s
95th percentile per-packet one-way delay: 93.830 ms
Loss rate: 0.33%
```

Run 5: Report of Indigo-MusesC5 — Data Link

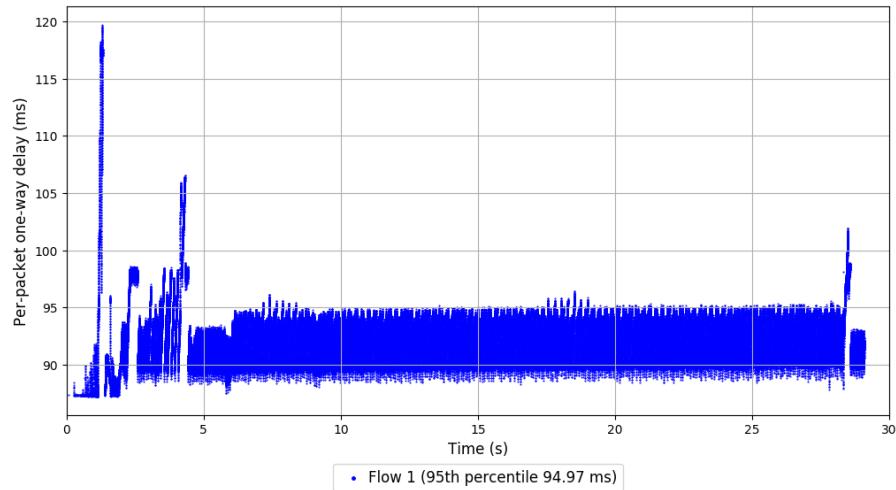
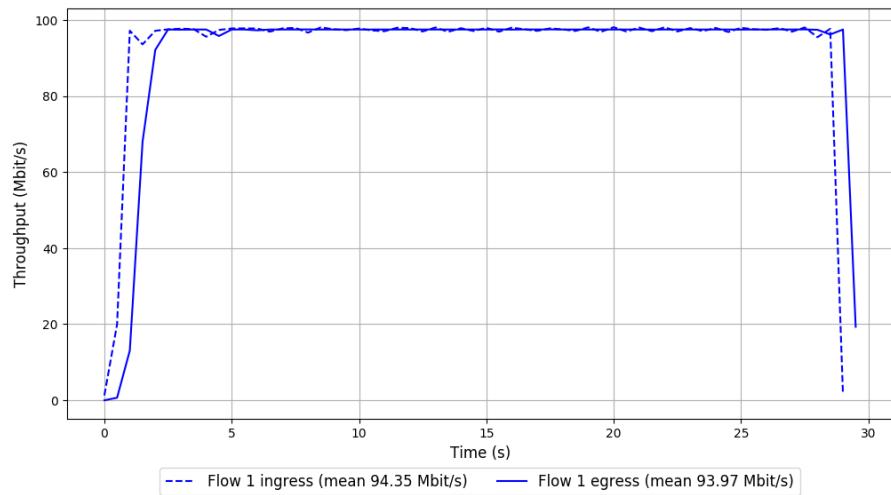


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-02-11 12:06:46
End at: 2019-02-11 12:07:16
Local clock offset: -23.45 ms
Remote clock offset: 6.768 ms

# Below is generated by plot.py at 2019-02-11 14:09:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.97 Mbit/s
95th percentile per-packet one-way delay: 94.972 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 93.97 Mbit/s
95th percentile per-packet one-way delay: 94.972 ms
Loss rate: 0.38%
```

Run 1: Report of Indigo-MusesD — Data Link

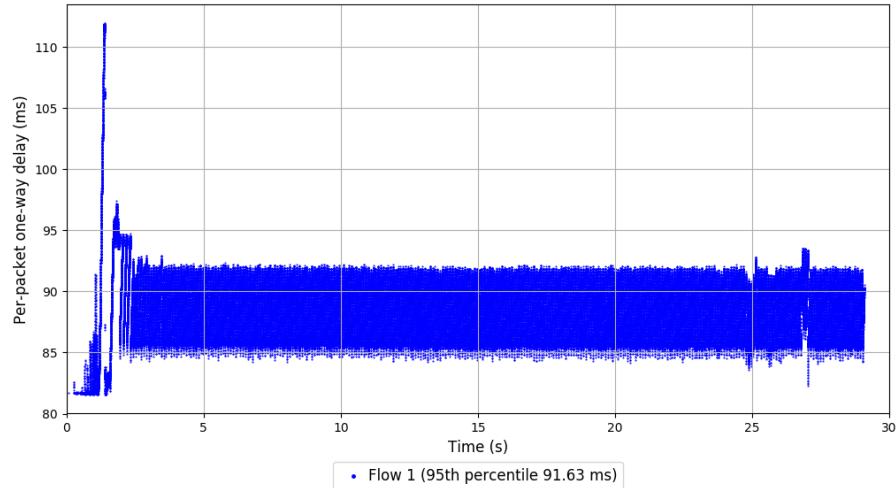
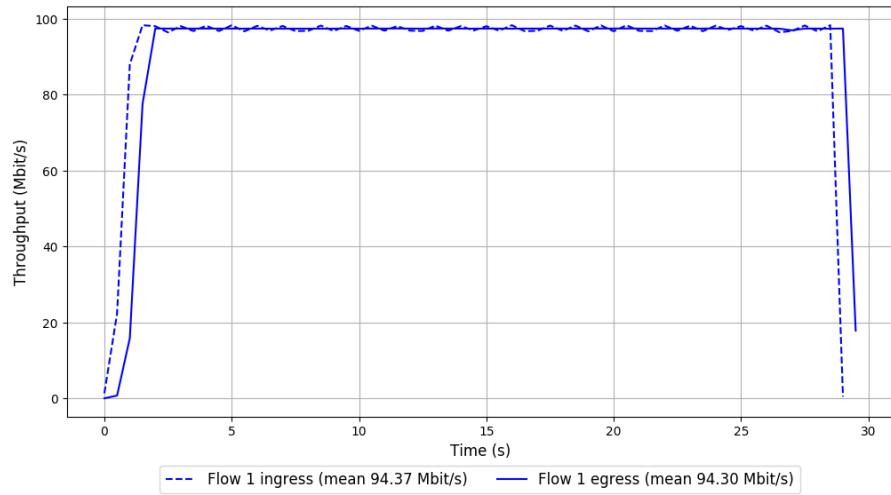


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-02-11 12:31:25
End at: 2019-02-11 12:31:55
Local clock offset: -19.927 ms
Remote clock offset: 2.556 ms

# Below is generated by plot.py at 2019-02-11 14:09:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 91.628 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 91.628 ms
Loss rate: 0.04%
```

Run 2: Report of Indigo-MusesD — Data Link

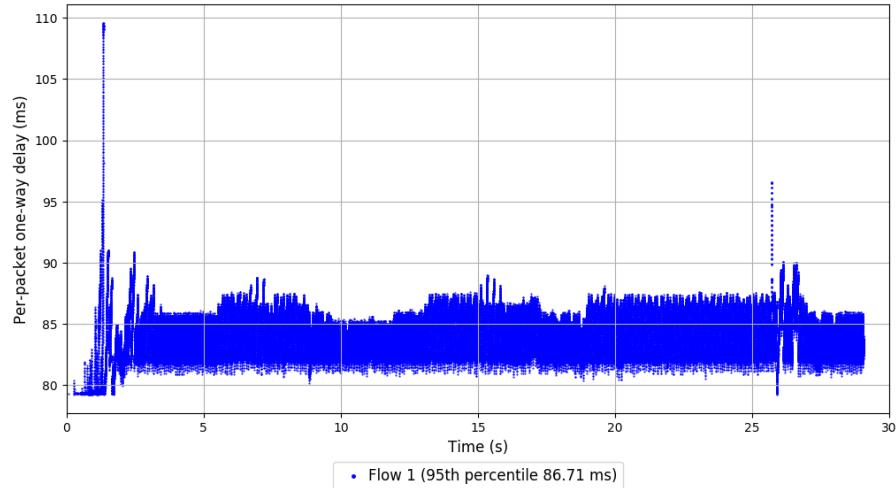
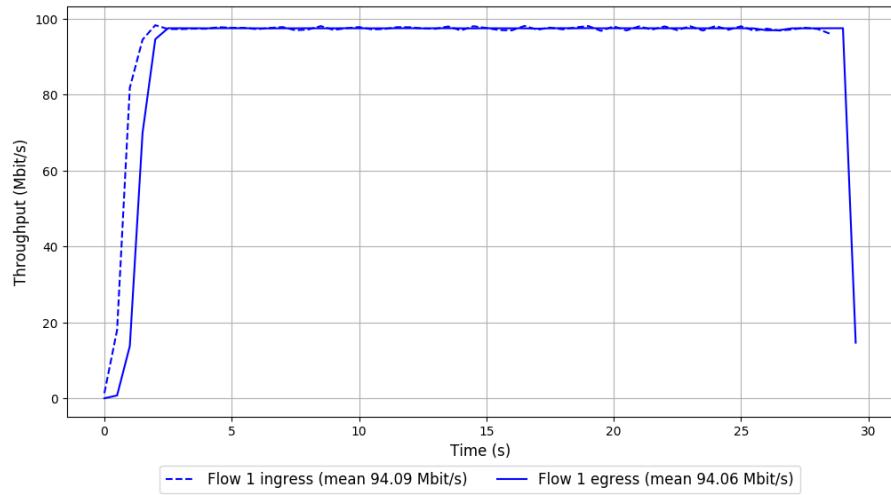


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-02-11 12:56:13
End at: 2019-02-11 12:56:43
Local clock offset: -7.195 ms
Remote clock offset: 0.761 ms

# Below is generated by plot.py at 2019-02-11 14:09:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.06 Mbit/s
95th percentile per-packet one-way delay: 86.708 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.06 Mbit/s
95th percentile per-packet one-way delay: 86.708 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesD — Data Link

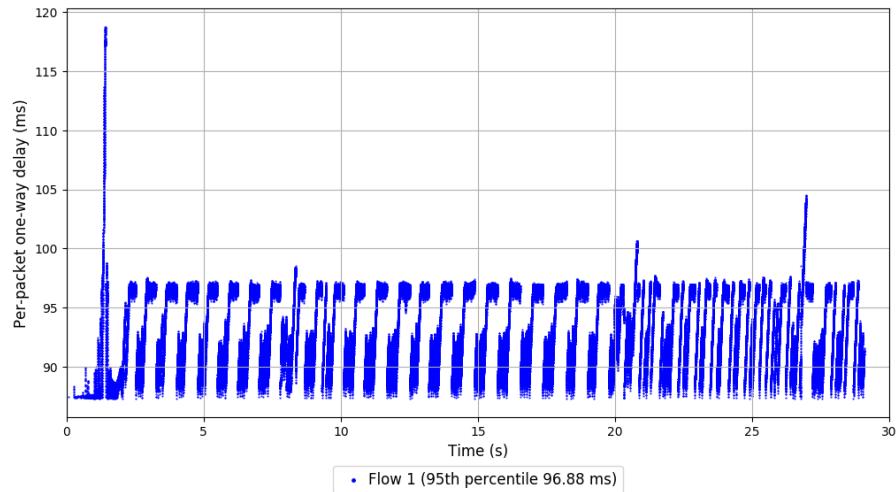
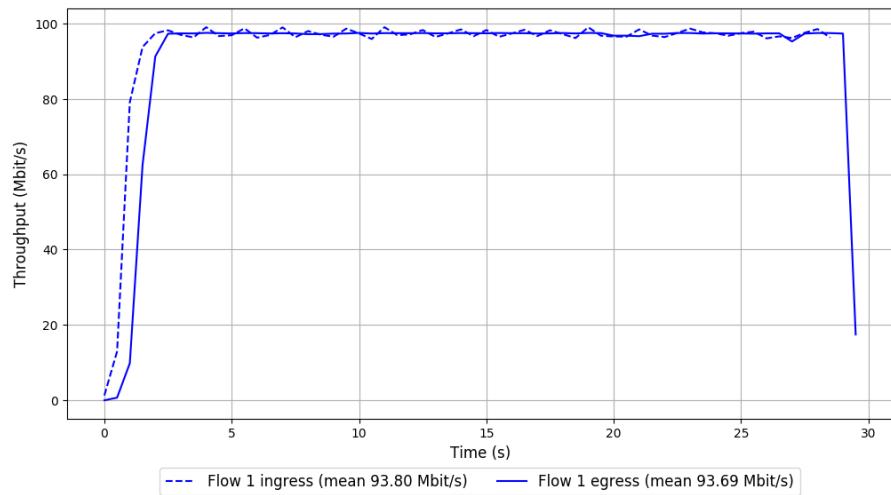


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-02-11 13:21:13
End at: 2019-02-11 13:21:43
Local clock offset: -4.347 ms
Remote clock offset: 6.617 ms

# Below is generated by plot.py at 2019-02-11 14:10:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 96.883 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 96.883 ms
Loss rate: 0.11%
```

Run 4: Report of Indigo-MusesD — Data Link

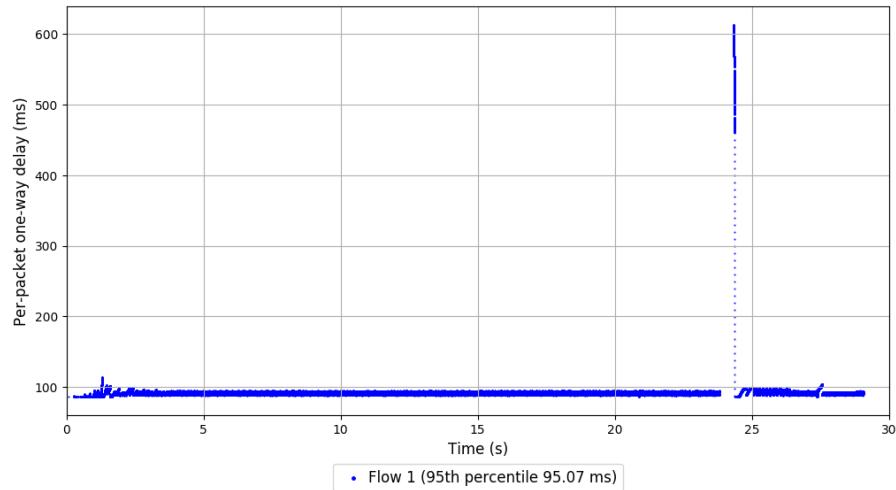
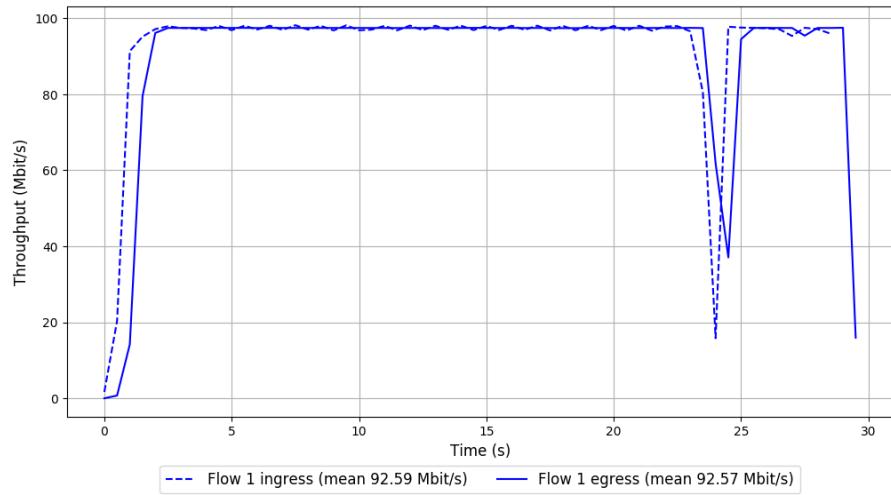


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-02-11 13:46:00
End at: 2019-02-11 13:46:30
Local clock offset: -2.586 ms
Remote clock offset: 7.236 ms

# Below is generated by plot.py at 2019-02-11 14:10:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 95.074 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 95.074 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesD — Data Link

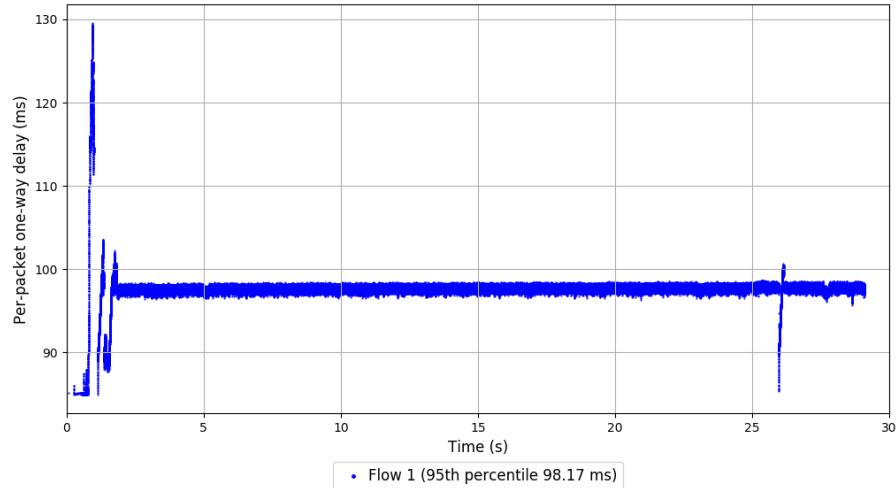
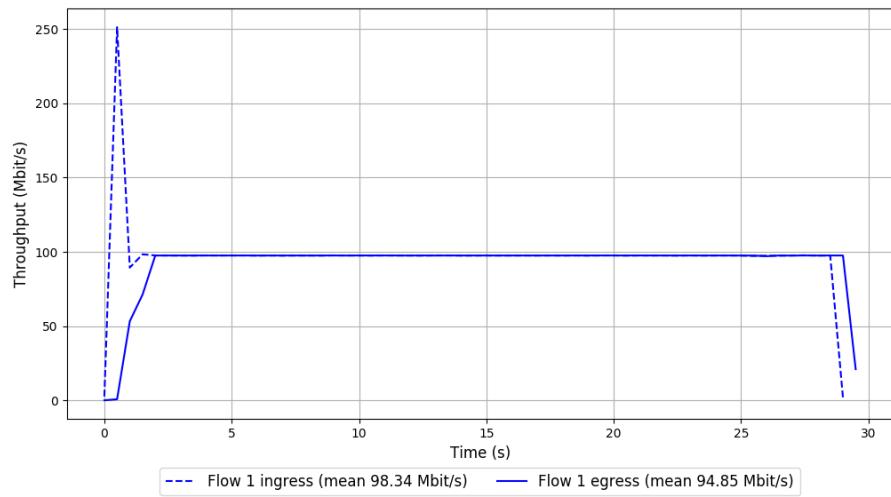


```
Run 1: Statistics of Indigo-MusesT
```

```
Start at: 2019-02-11 12:12:37
End at: 2019-02-11 12:13:07
Local clock offset: -18.363 ms
Remote clock offset: 6.822 ms

# Below is generated by plot.py at 2019-02-11 14:10:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.85 Mbit/s
95th percentile per-packet one-way delay: 98.171 ms
Loss rate: 3.50%
-- Flow 1:
Average throughput: 94.85 Mbit/s
95th percentile per-packet one-way delay: 98.171 ms
Loss rate: 3.50%
```

Run 1: Report of Indigo-MusesT — Data Link

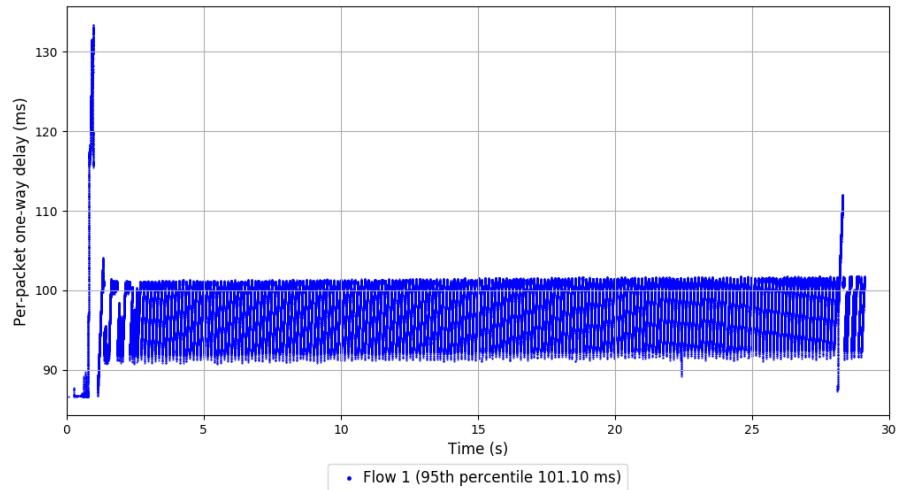
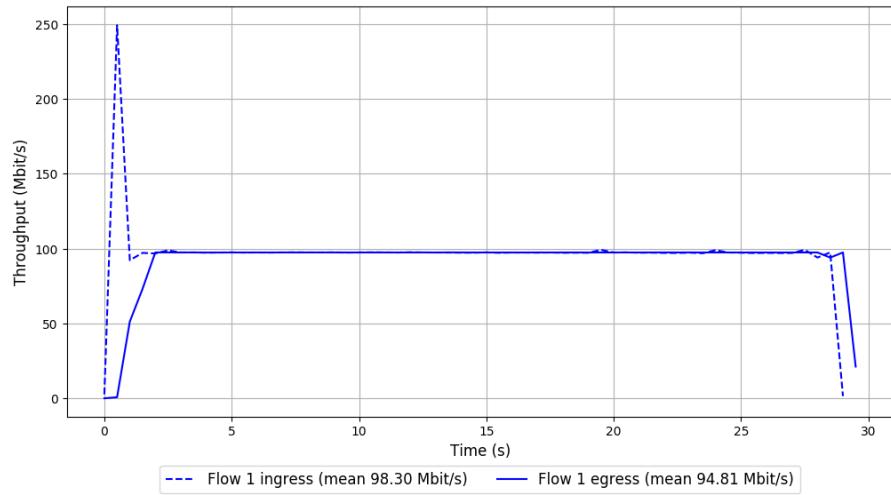


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-02-11 12:37:17
End at: 2019-02-11 12:37:47
Local clock offset: -16.901 ms
Remote clock offset: 7.474 ms

# Below is generated by plot.py at 2019-02-11 14:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.81 Mbit/s
95th percentile per-packet one-way delay: 101.097 ms
Loss rate: 3.51%
-- Flow 1:
Average throughput: 94.81 Mbit/s
95th percentile per-packet one-way delay: 101.097 ms
Loss rate: 3.51%
```

Run 2: Report of Indigo-MusesT — Data Link

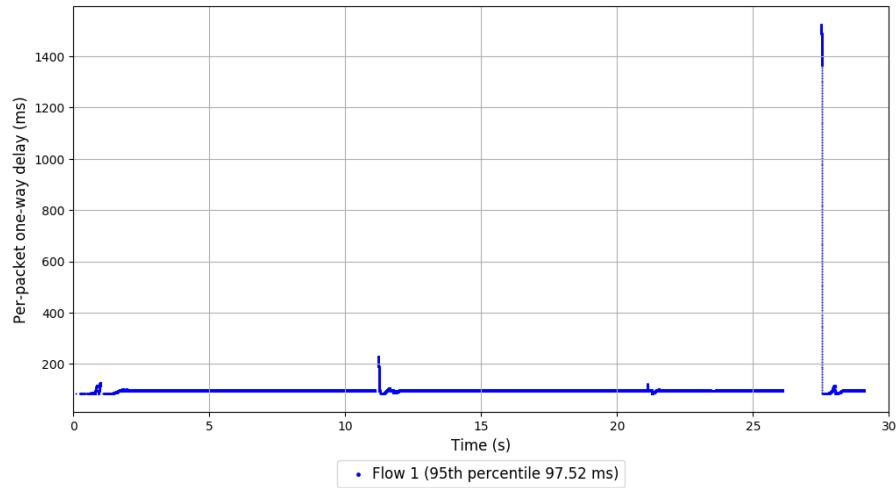
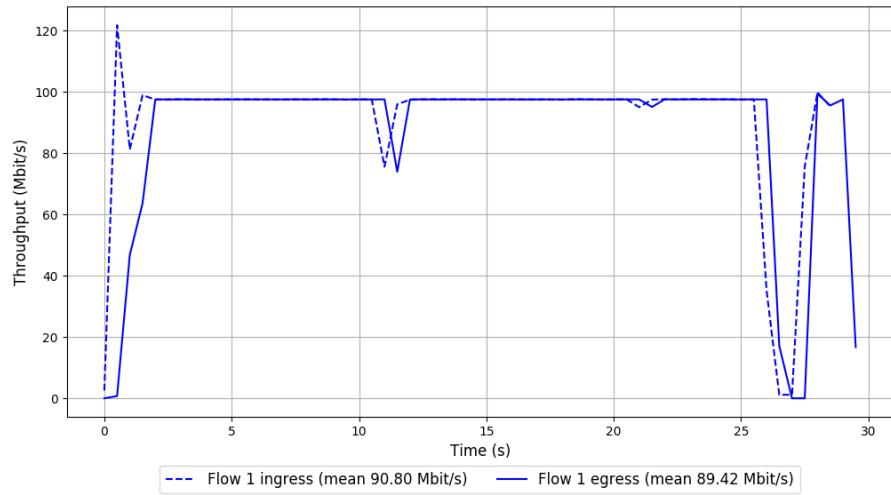


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-02-11 13:02:10
End at: 2019-02-11 13:02:40
Local clock offset: -7.42 ms
Remote clock offset: 5.379 ms

# Below is generated by plot.py at 2019-02-11 14:10:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.42 Mbit/s
95th percentile per-packet one-way delay: 97.515 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 89.42 Mbit/s
95th percentile per-packet one-way delay: 97.515 ms
Loss rate: 1.48%
```

Run 3: Report of Indigo-MusesT — Data Link

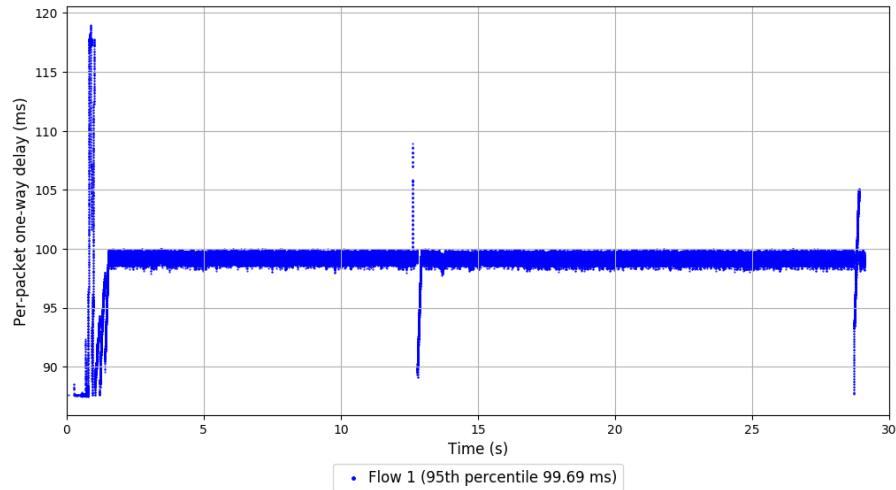
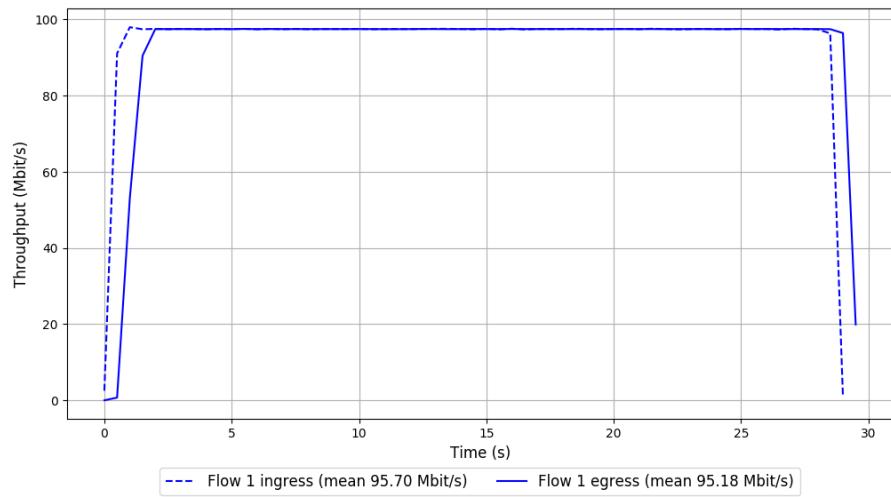


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-02-11 13:27:05
End at: 2019-02-11 13:27:35
Local clock offset: -4.478 ms
Remote clock offset: 7.129 ms

# Below is generated by plot.py at 2019-02-11 14:11:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 99.693 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 99.693 ms
Loss rate: 0.51%
```

Run 4: Report of Indigo-MusesT — Data Link

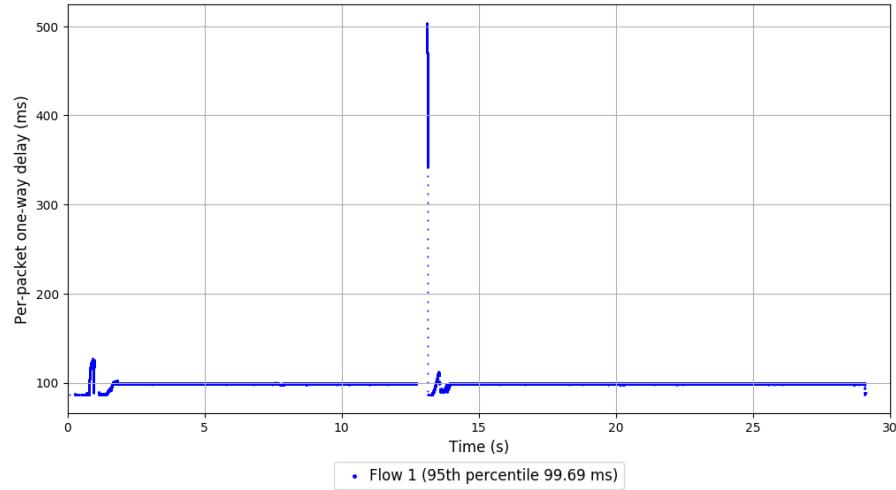
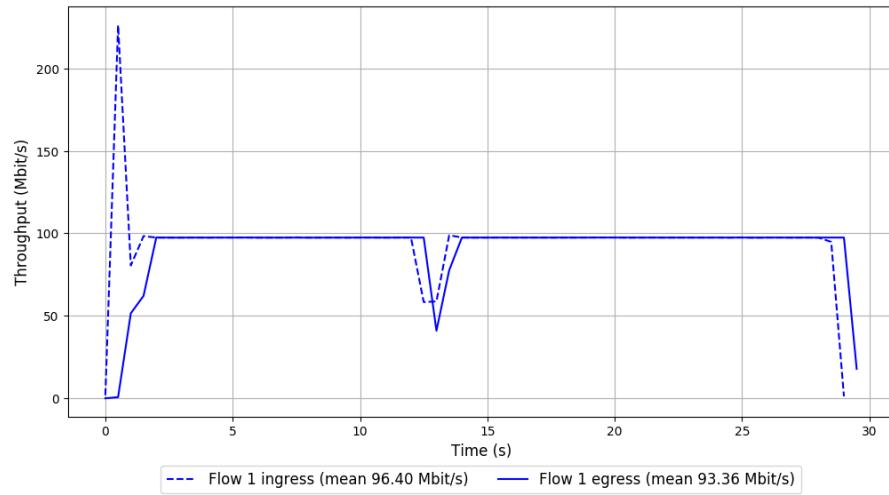


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-02-11 13:51:52
End at: 2019-02-11 13:52:22
Local clock offset: -3.005 ms
Remote clock offset: 7.087 ms

# Below is generated by plot.py at 2019-02-11 14:11:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 99.692 ms
Loss rate: 3.15%
-- Flow 1:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 99.692 ms
Loss rate: 3.15%
```

Run 5: Report of Indigo-MusesT — Data Link

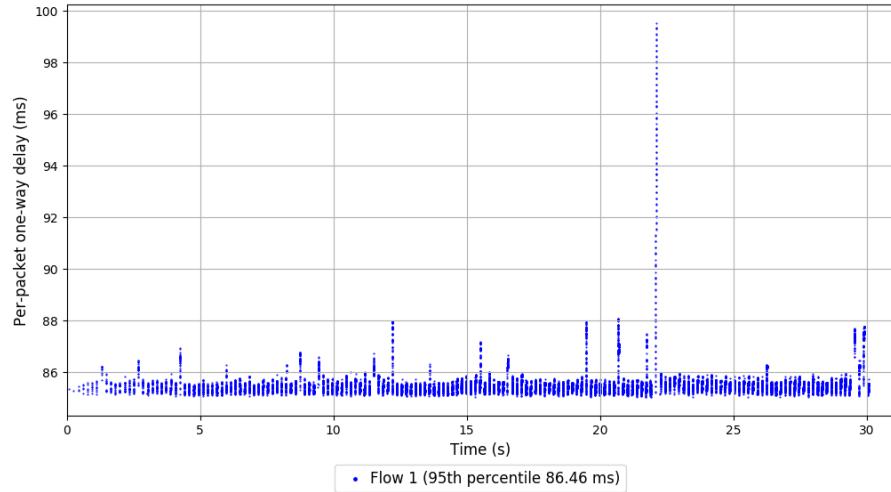
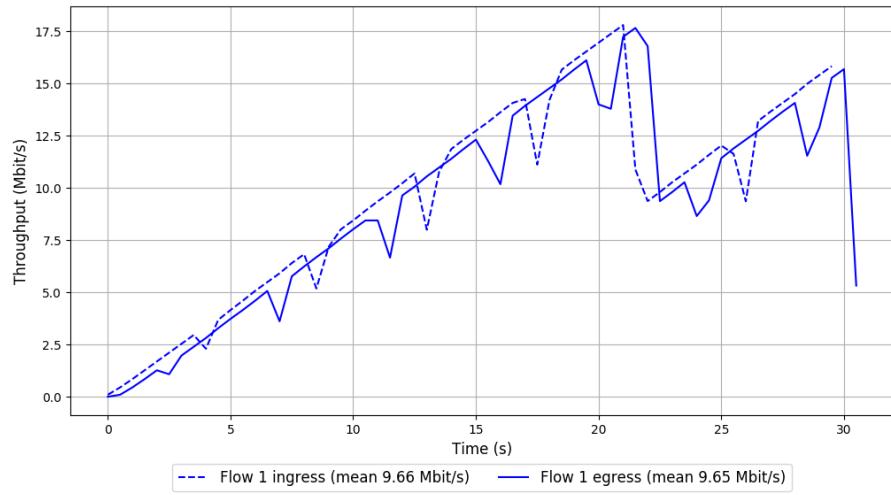


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-02-11 12:19:41
End at: 2019-02-11 12:20:11
Local clock offset: -17.899 ms
Remote clock offset: 6.539 ms

# Below is generated by plot.py at 2019-02-11 14:11:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 86.460 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 86.460 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link

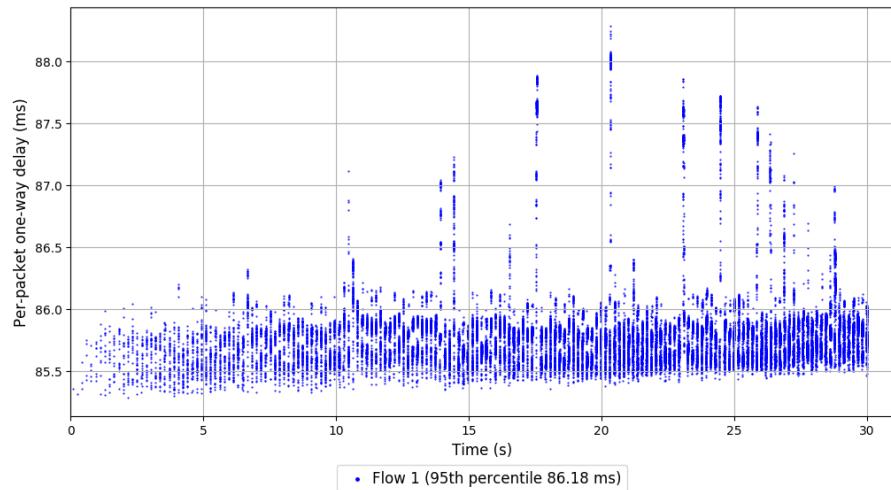
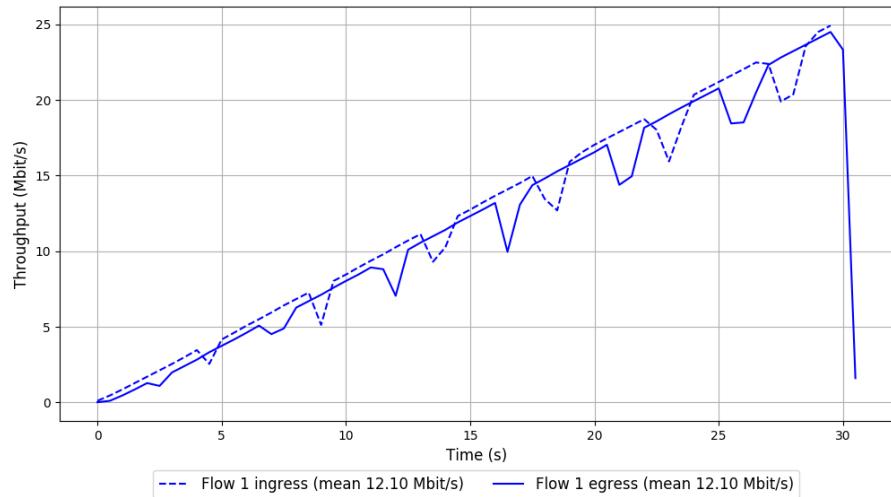


Run 2: Statistics of LEDBAT

```
Start at: 2019-02-11 12:44:21
End at: 2019-02-11 12:44:51
Local clock offset: -10.478 ms
Remote clock offset: 6.421 ms

# Below is generated by plot.py at 2019-02-11 14:11:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.10 Mbit/s
95th percentile per-packet one-way delay: 86.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.10 Mbit/s
95th percentile per-packet one-way delay: 86.181 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

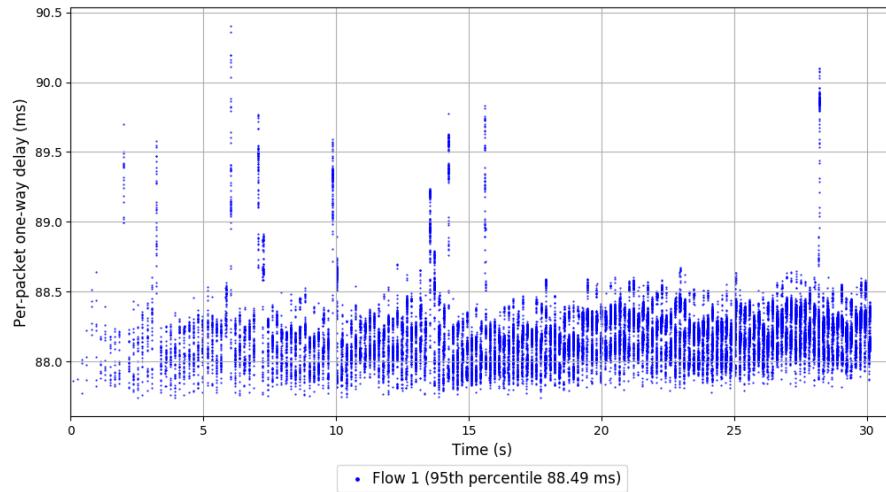
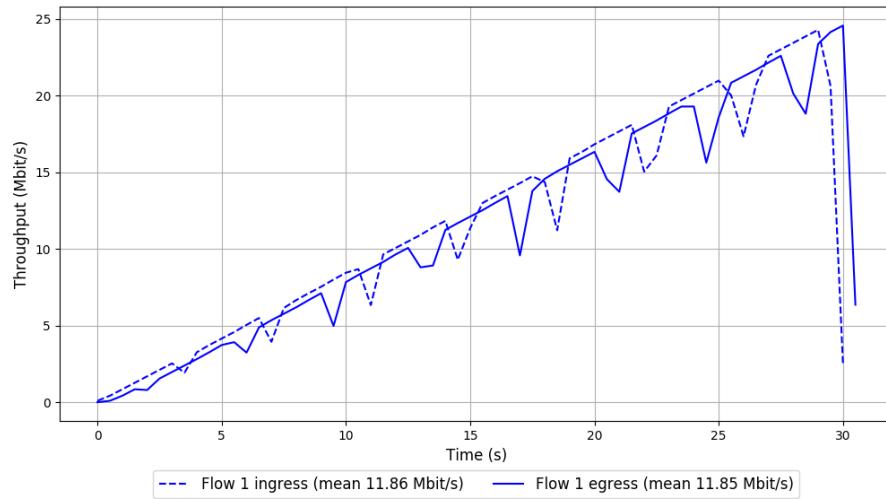


Run 3: Statistics of LEDBAT

```
Start at: 2019-02-11 13:09:16
End at: 2019-02-11 13:09:46
Local clock offset: -6.424 ms
Remote clock offset: 5.747 ms

# Below is generated by plot.py at 2019-02-11 14:11:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 88.489 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 88.489 ms
Loss rate: 0.05%
```

Run 3: Report of LEDBAT — Data Link

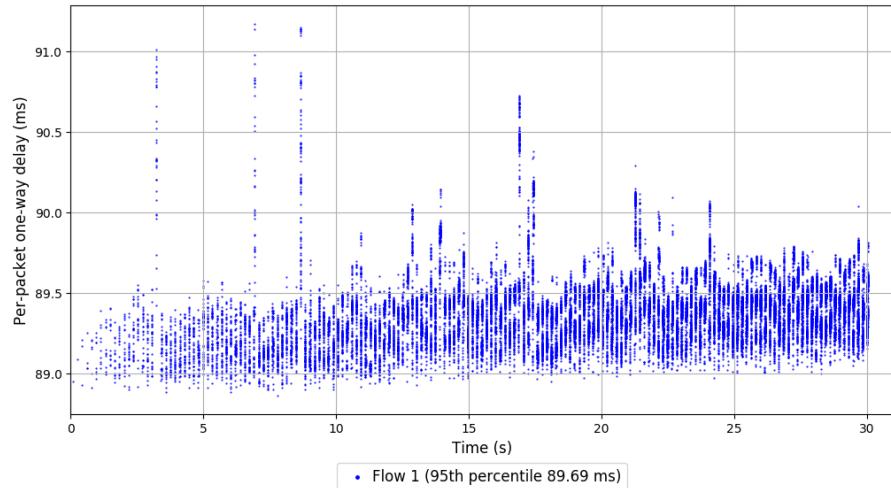
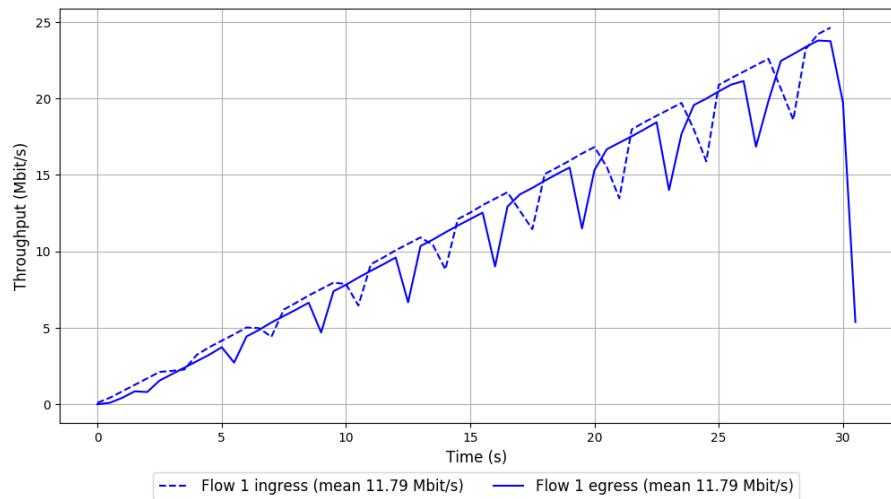


Run 4: Statistics of LEDBAT

```
Start at: 2019-02-11 13:34:12
End at: 2019-02-11 13:34:42
Local clock offset: -5.746 ms
Remote clock offset: 6.945 ms

# Below is generated by plot.py at 2019-02-11 14:11:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 89.690 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 89.690 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

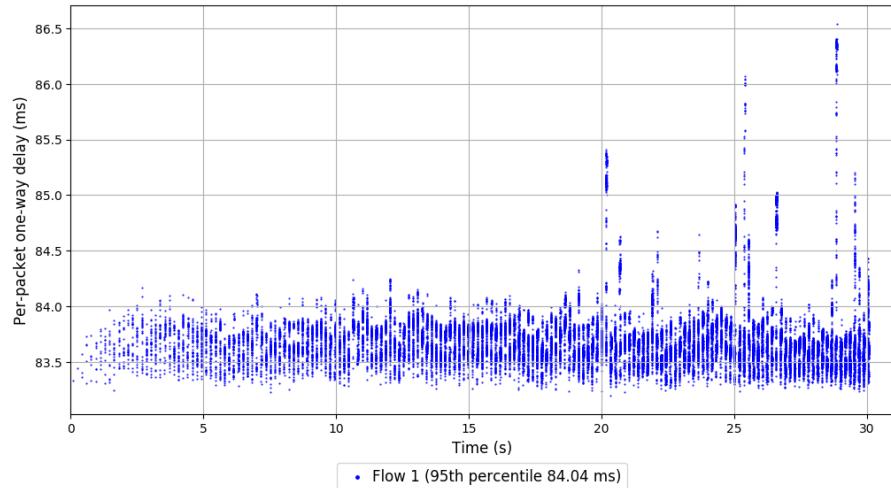
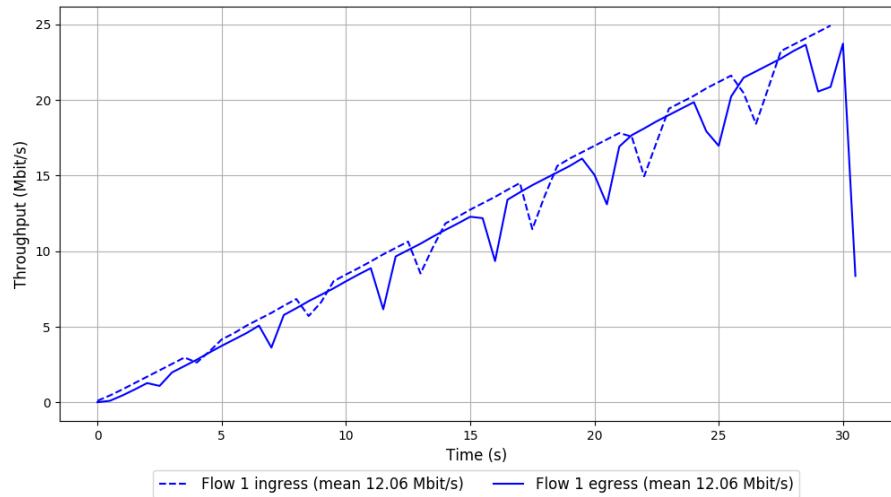


Run 5: Statistics of LEDBAT

```
Start at: 2019-02-11 13:58:56
End at: 2019-02-11 13:59:26
Local clock offset: -2.227 ms
Remote clock offset: 4.931 ms

# Below is generated by plot.py at 2019-02-11 14:11:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 84.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 84.044 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

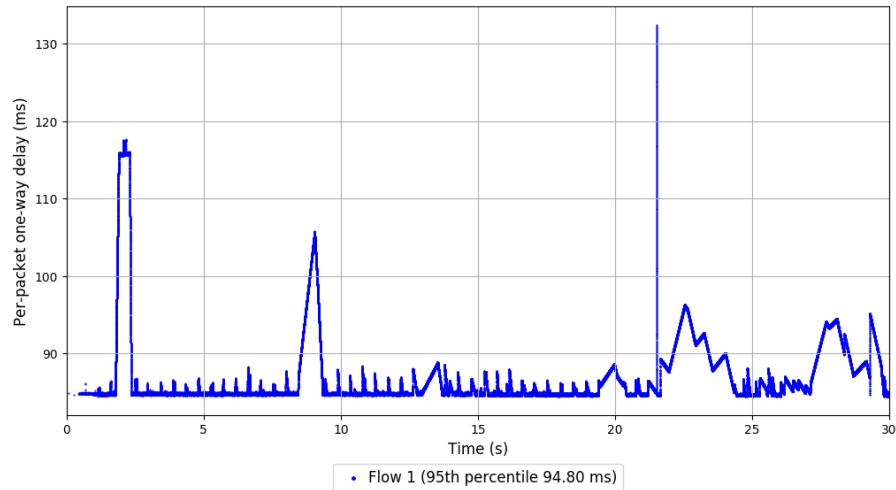
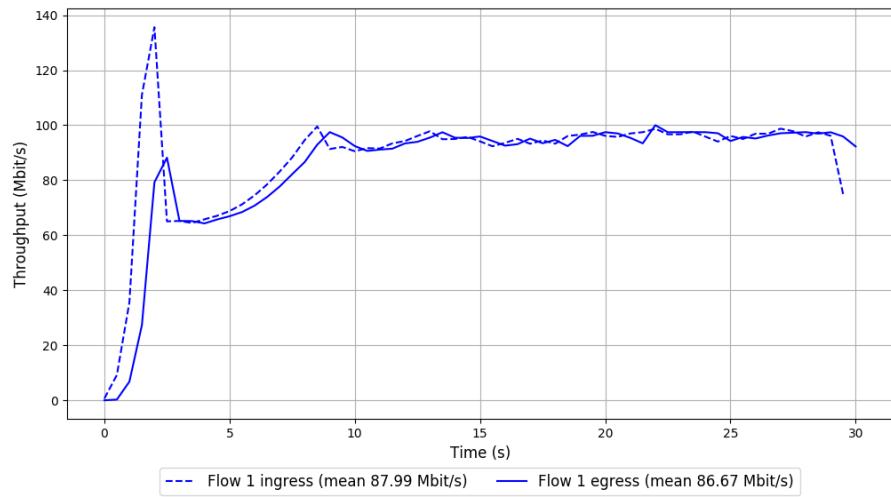


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-02-11 12:00:55
End at: 2019-02-11 12:01:25
Local clock offset: -25.179 ms
Remote clock offset: 5.598 ms

# Below is generated by plot.py at 2019-02-11 14:11:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.67 Mbit/s
95th percentile per-packet one-way delay: 94.798 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 86.67 Mbit/s
95th percentile per-packet one-way delay: 94.798 ms
Loss rate: 1.51%
```

Run 1: Report of PCC-Allegro — Data Link

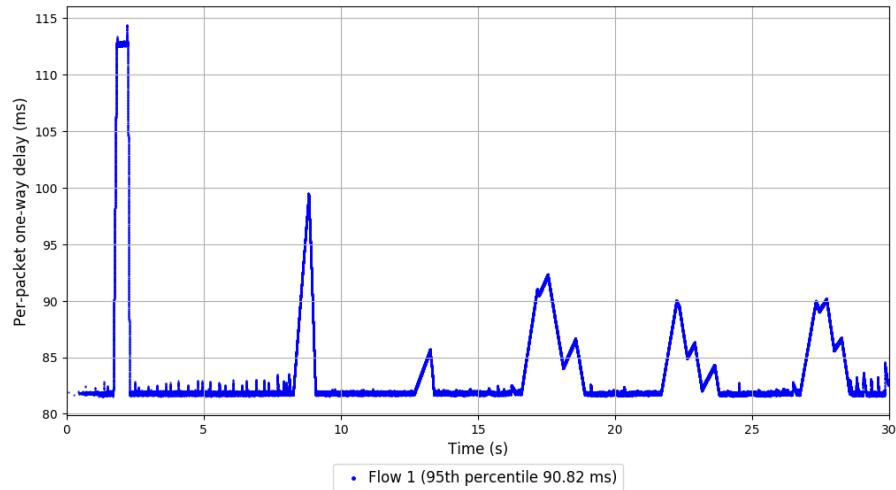
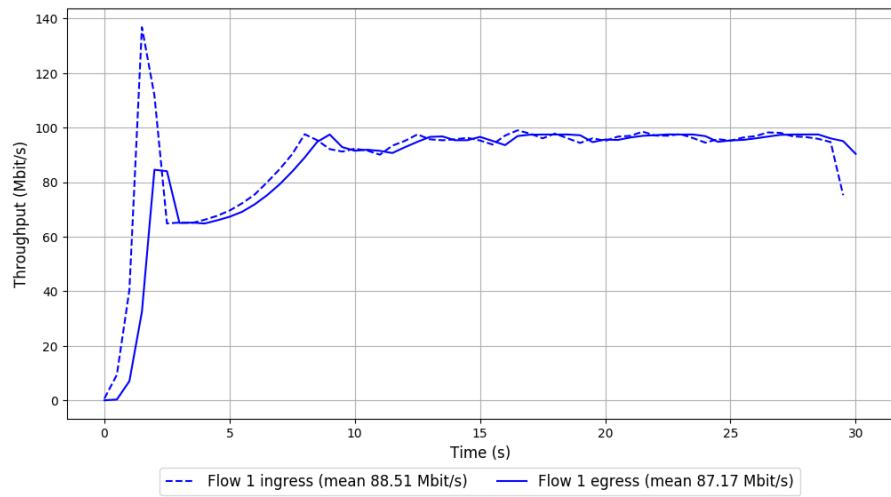


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-02-11 12:25:33
End at: 2019-02-11 12:26:03
Local clock offset: -18.124 ms
Remote clock offset: 2.531 ms

# Below is generated by plot.py at 2019-02-11 14:11:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.17 Mbit/s
95th percentile per-packet one-way delay: 90.817 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 87.17 Mbit/s
95th percentile per-packet one-way delay: 90.817 ms
Loss rate: 1.51%
```

Run 2: Report of PCC-Allegro — Data Link

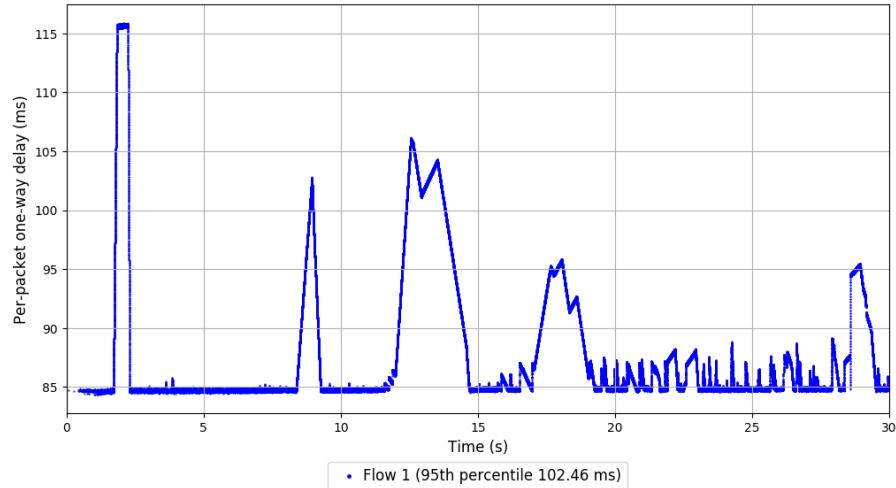
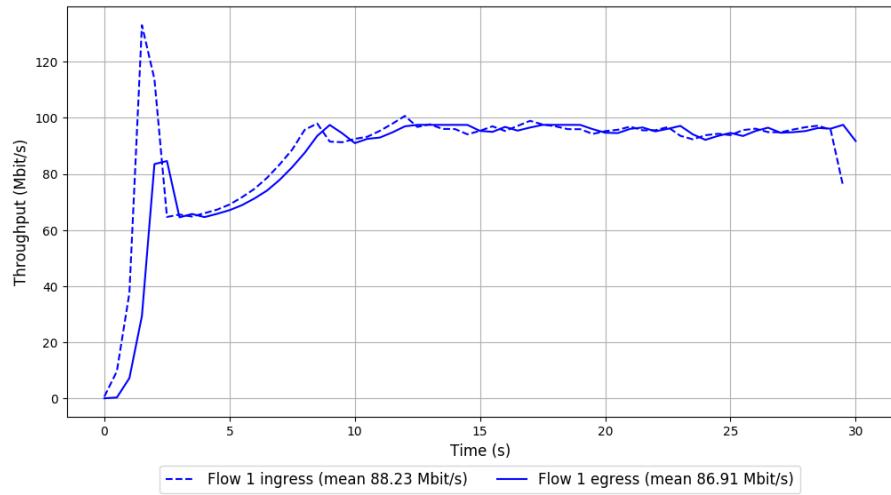


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-02-11 12:50:16
End at: 2019-02-11 12:50:47
Local clock offset: -8.33 ms
Remote clock offset: 6.006 ms

# Below is generated by plot.py at 2019-02-11 14:11:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.91 Mbit/s
95th percentile per-packet one-way delay: 102.463 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 86.91 Mbit/s
95th percentile per-packet one-way delay: 102.463 ms
Loss rate: 1.50%
```

Run 3: Report of PCC-Allegro — Data Link

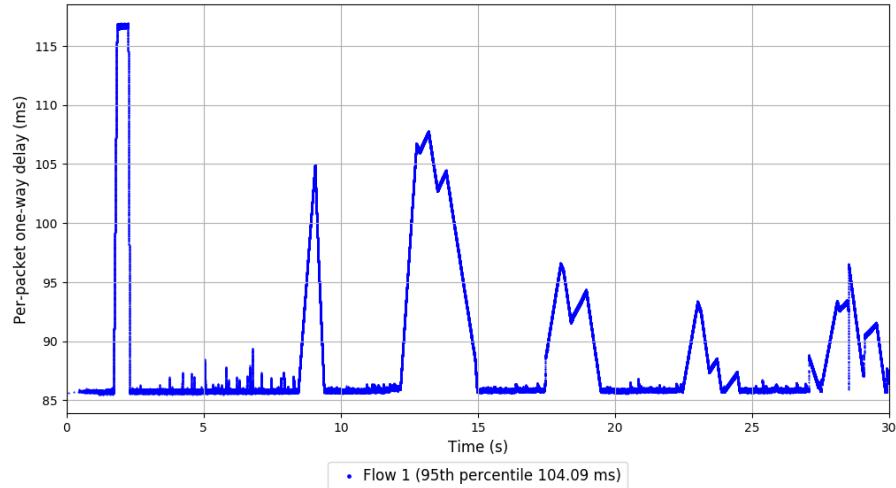
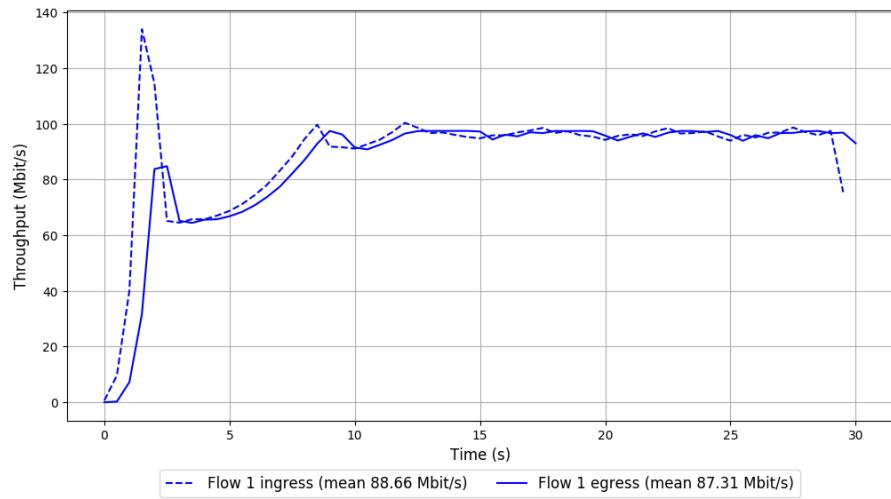


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-02-11 13:15:19
End at: 2019-02-11 13:15:49
Local clock offset: -4.591 ms
Remote clock offset: 5.286 ms

# Below is generated by plot.py at 2019-02-11 14:11:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.31 Mbit/s
95th percentile per-packet one-way delay: 104.089 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 87.31 Mbit/s
95th percentile per-packet one-way delay: 104.089 ms
Loss rate: 1.51%
```

Run 4: Report of PCC-Allegro — Data Link

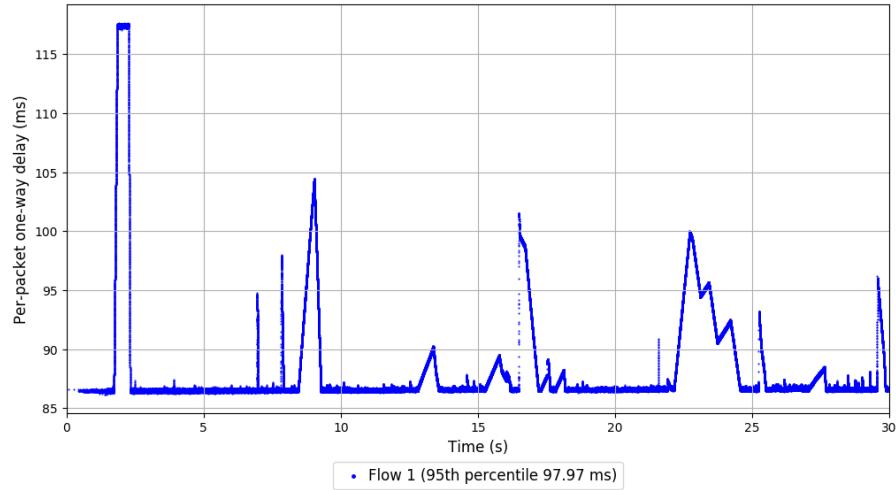
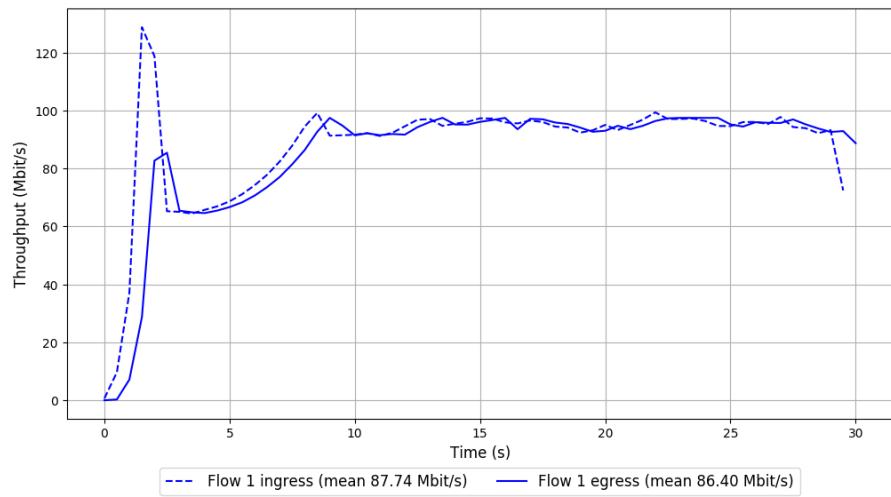


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-02-11 13:40:06
End at: 2019-02-11 13:40:36
Local clock offset: -4.094 ms
Remote clock offset: 7.14 ms

# Below is generated by plot.py at 2019-02-11 14:11:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.40 Mbit/s
95th percentile per-packet one-way delay: 97.972 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 86.40 Mbit/s
95th percentile per-packet one-way delay: 97.972 ms
Loss rate: 1.53%
```

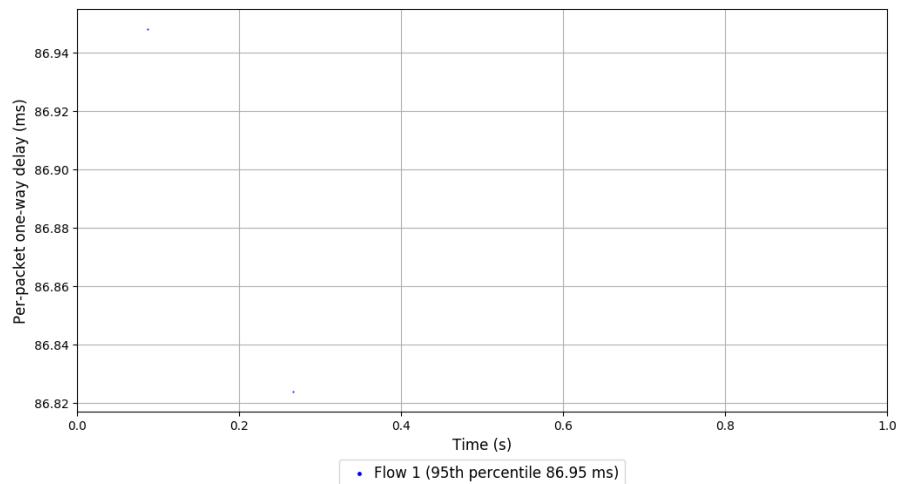
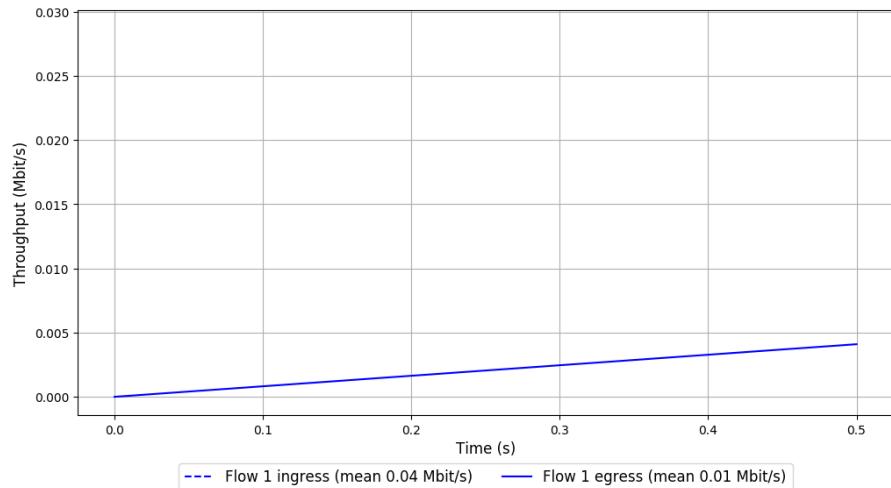
Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-02-11 12:10:20
End at: 2019-02-11 12:10:51
Local clock offset: -20.477 ms
Remote clock offset: 6.848 ms

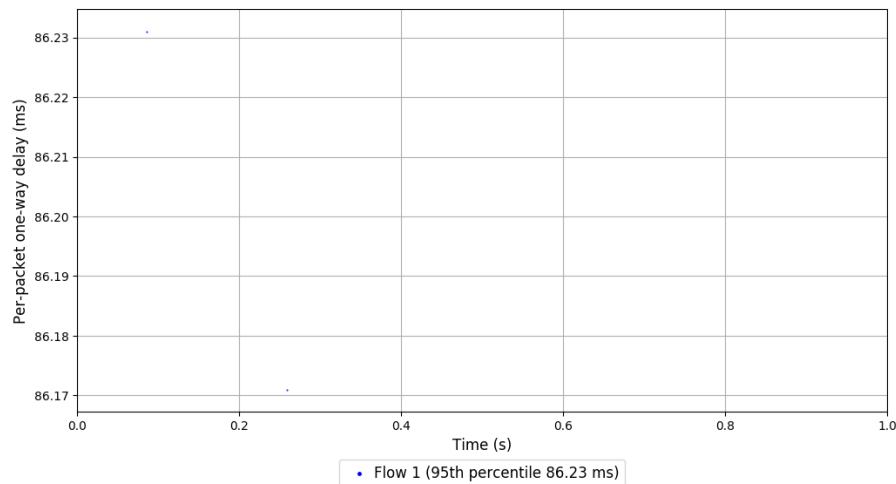
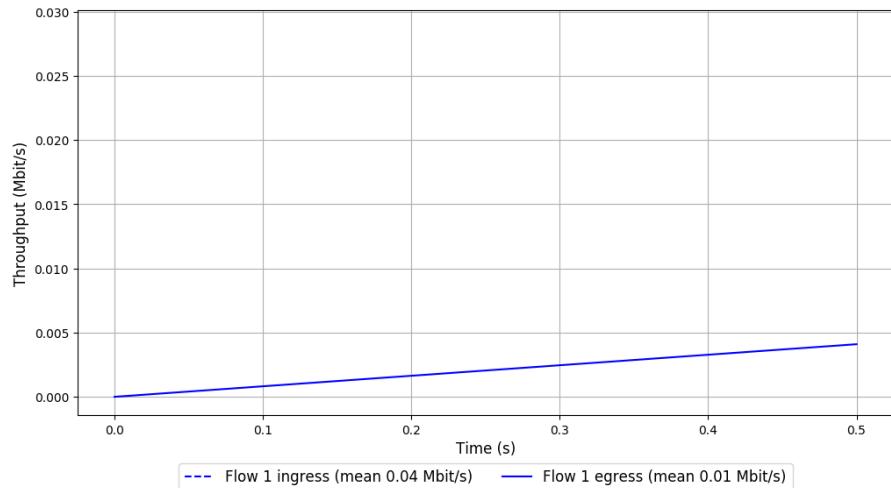
Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-02-11 12:35:00
End at: 2019-02-11 12:35:30
Local clock offset: -20.646 ms
Remote clock offset: 6.419 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

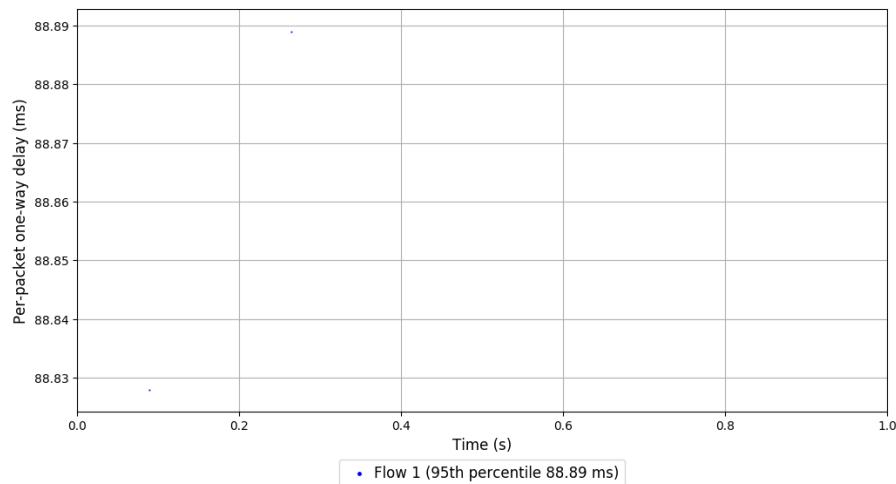
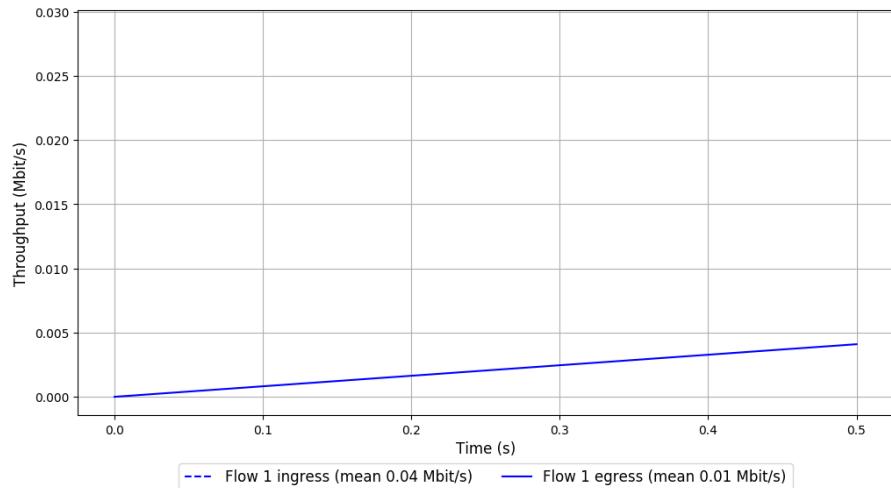
Start at: 2019-02-11 12:59:53

End at: 2019-02-11 13:00:23

Local clock offset: -8.023 ms

Remote clock offset: 6.792 ms

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

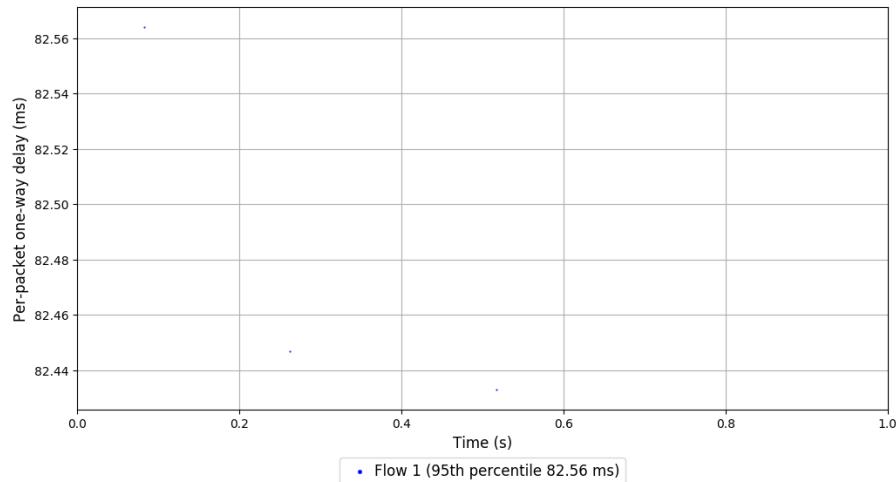
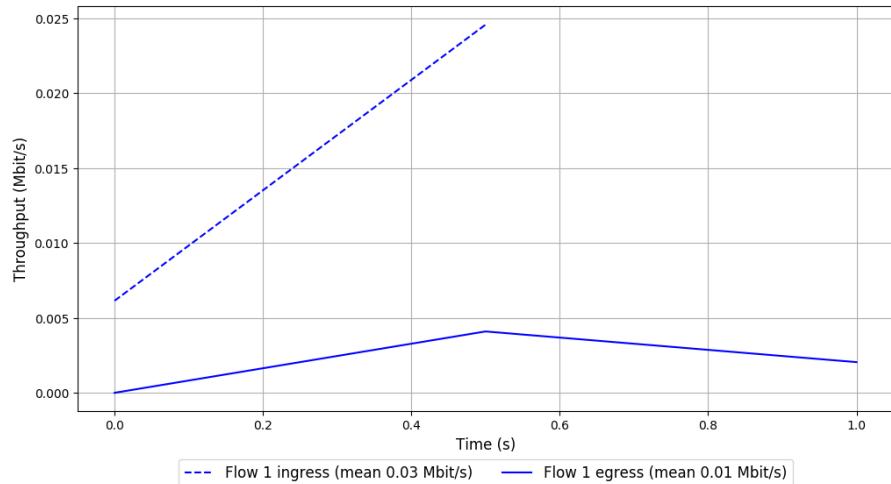
Start at: 2019-02-11 13:24:49

End at: 2019-02-11 13:25:19

Local clock offset: -5.157 ms

Remote clock offset: 1.706 ms

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

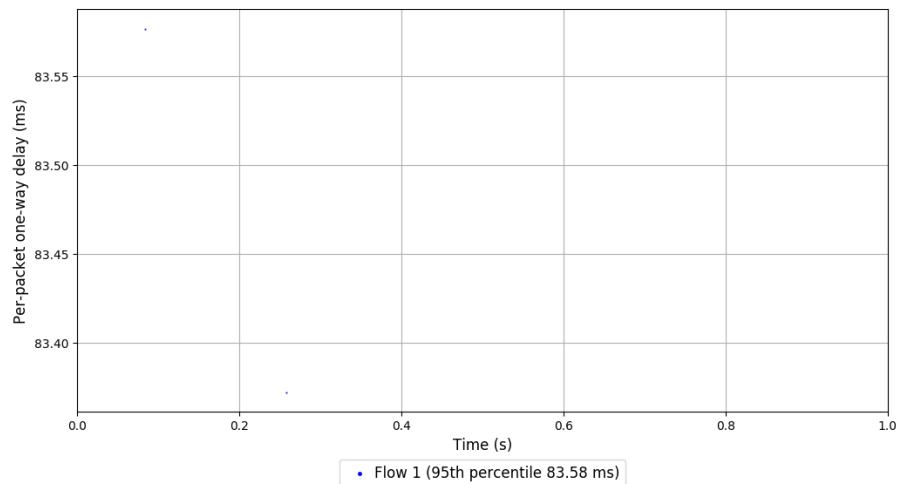
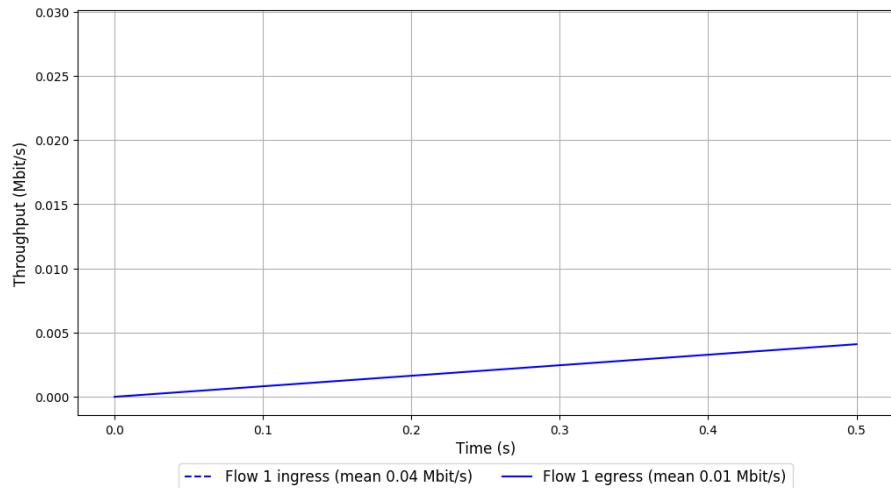
Start at: 2019-02-11 13:49:36

End at: 2019-02-11 13:50:06

Local clock offset: -3.083 ms

Remote clock offset: 2.057 ms

Run 5: Report of PCC-Expr — Data Link

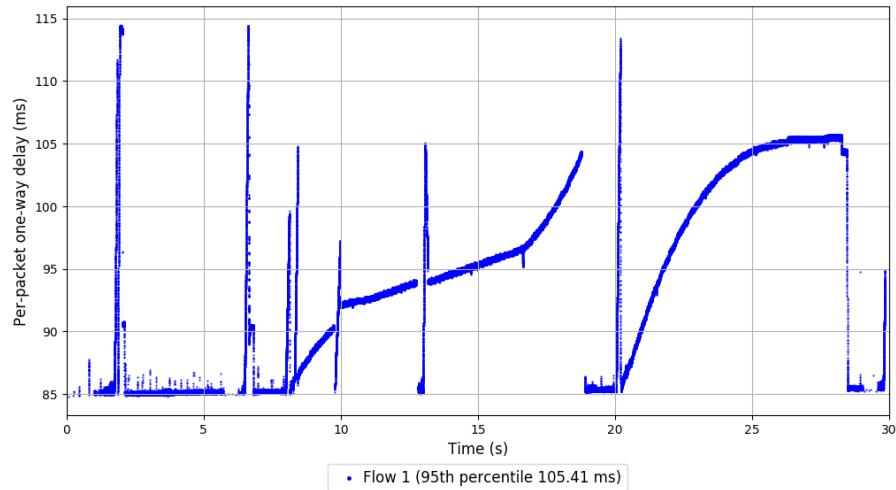
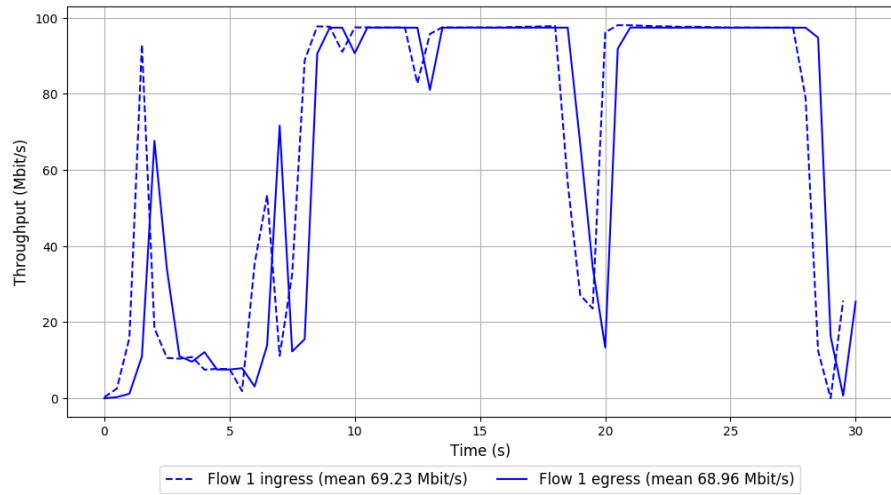


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-02-11 12:09:09
End at: 2019-02-11 12:09:39
Local clock offset: -20.642 ms
Remote clock offset: 5.728 ms

# Below is generated by plot.py at 2019-02-11 14:11:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.96 Mbit/s
95th percentile per-packet one-way delay: 105.414 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 68.96 Mbit/s
95th percentile per-packet one-way delay: 105.414 ms
Loss rate: 0.36%
```

Run 1: Report of QUIC Cubic — Data Link

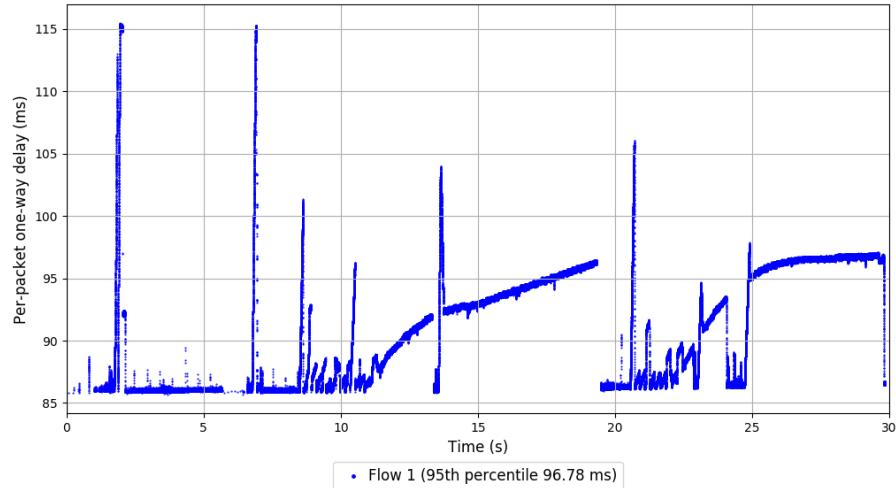
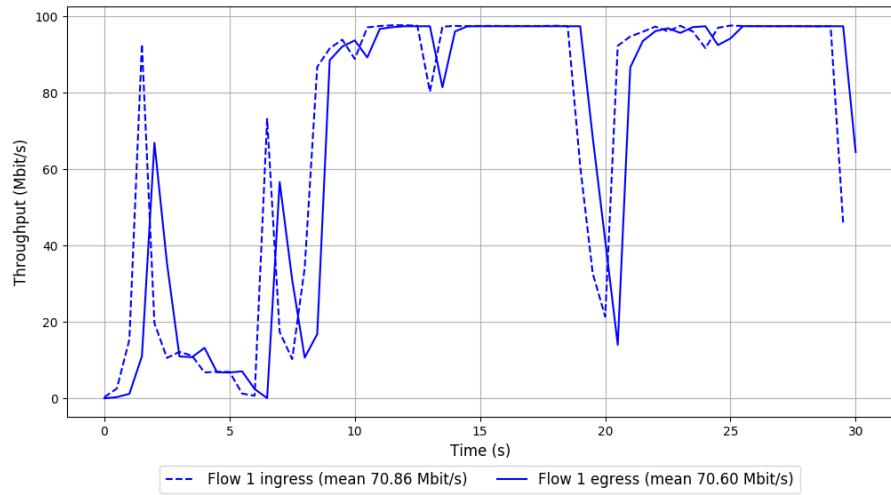


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-02-11 12:33:49
End at: 2019-02-11 12:34:19
Local clock offset: -20.818 ms
Remote clock offset: 6.384 ms

# Below is generated by plot.py at 2019-02-11 14:12:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.60 Mbit/s
95th percentile per-packet one-way delay: 96.780 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 70.60 Mbit/s
95th percentile per-packet one-way delay: 96.780 ms
Loss rate: 0.36%
```

Run 2: Report of QUIC Cubic — Data Link

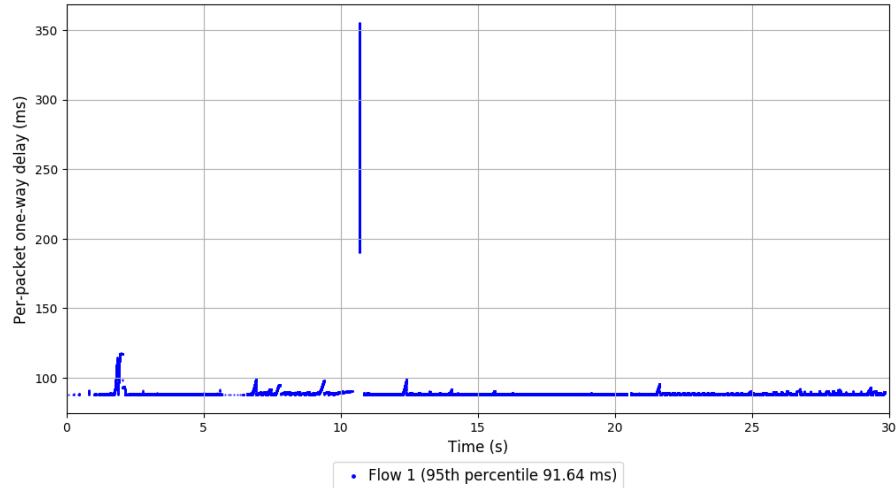
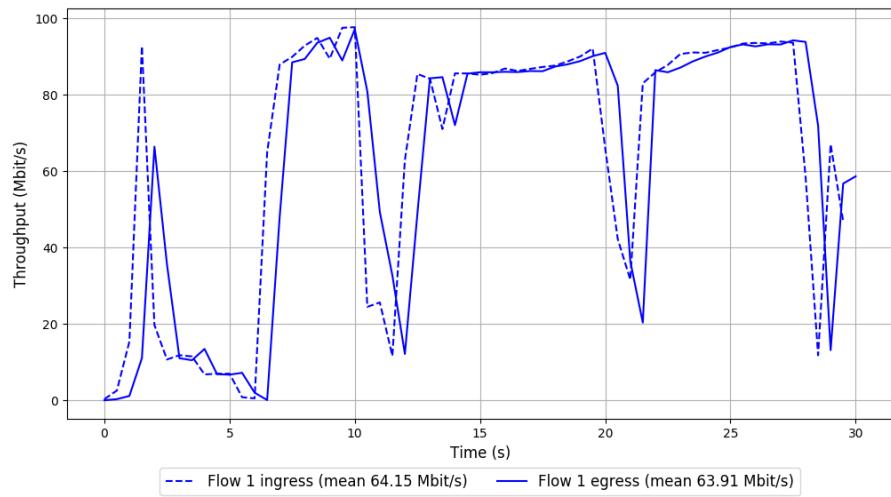


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-02-11 12:58:41
End at: 2019-02-11 12:59:11
Local clock offset: -7.933 ms
Remote clock offset: 6.841 ms

# Below is generated by plot.py at 2019-02-11 14:12:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.91 Mbit/s
95th percentile per-packet one-way delay: 91.640 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 63.91 Mbit/s
95th percentile per-packet one-way delay: 91.640 ms
Loss rate: 0.37%
```

Run 3: Report of QUIC Cubic — Data Link

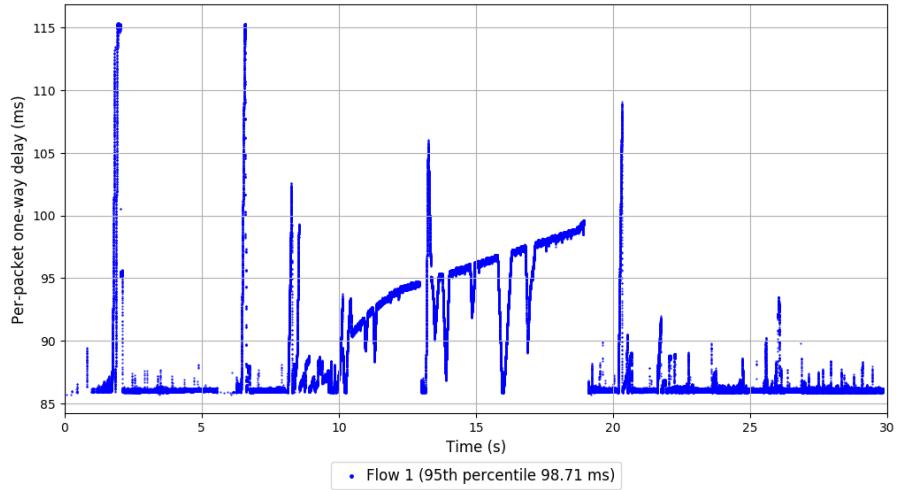
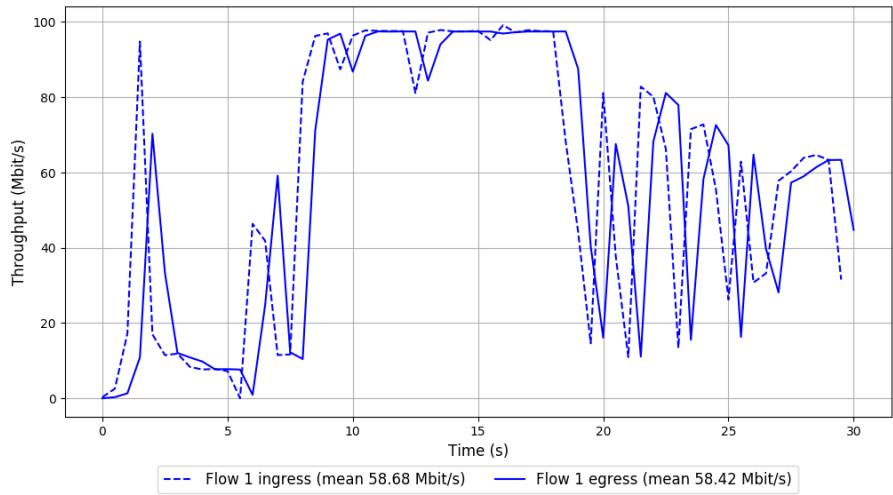


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-02-11 13:23:38
End at: 2019-02-11 13:24:08
Local clock offset: -5.121 ms
Remote clock offset: 6.621 ms

# Below is generated by plot.py at 2019-02-11 14:12:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.42 Mbit/s
95th percentile per-packet one-way delay: 98.706 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 58.42 Mbit/s
95th percentile per-packet one-way delay: 98.706 ms
Loss rate: 0.45%
```

Run 4: Report of QUIC Cubic — Data Link

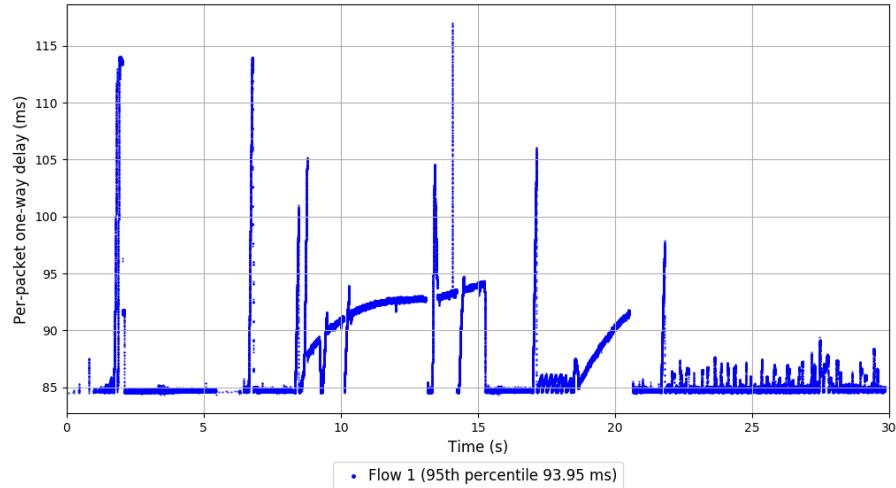
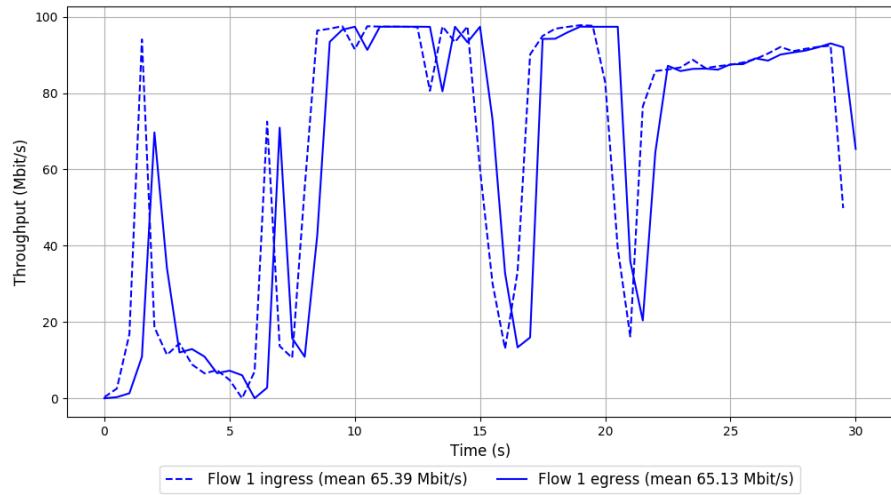


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-02-11 13:48:24
End at: 2019-02-11 13:48:54
Local clock offset: -2.381 ms
Remote clock offset: 4.864 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.13 Mbit/s
95th percentile per-packet one-way delay: 93.955 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 65.13 Mbit/s
95th percentile per-packet one-way delay: 93.955 ms
Loss rate: 0.40%
```

Run 5: Report of QUIC Cubic — Data Link

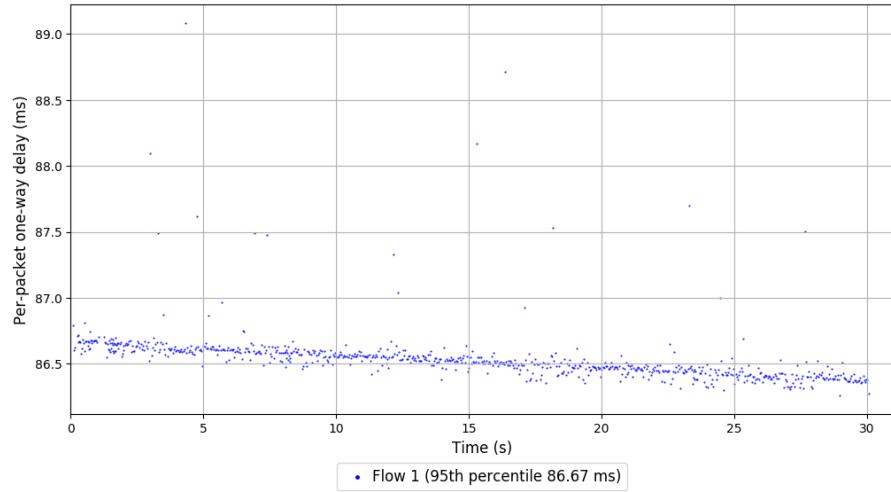
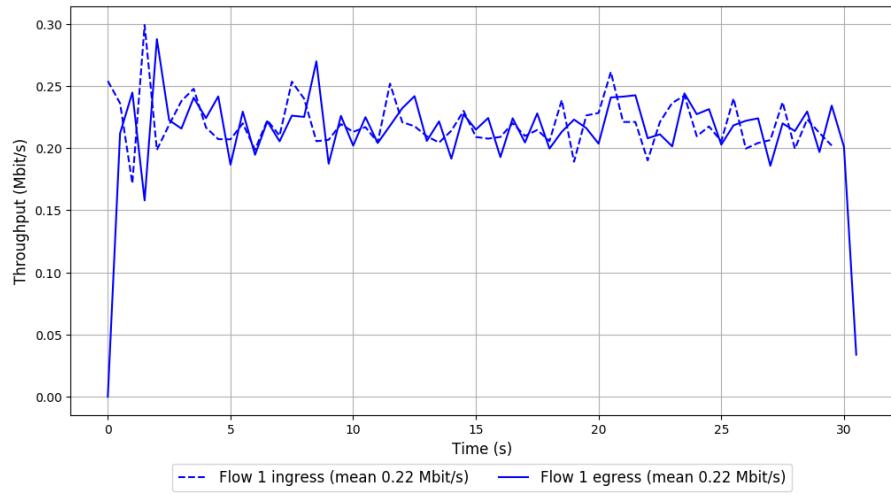


Run 1: Statistics of SCReAM

```
Start at: 2019-02-11 12:03:18
End at: 2019-02-11 12:03:48
Local clock offset: -27.175 ms
Remote clock offset: 6.764 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.674 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.674 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

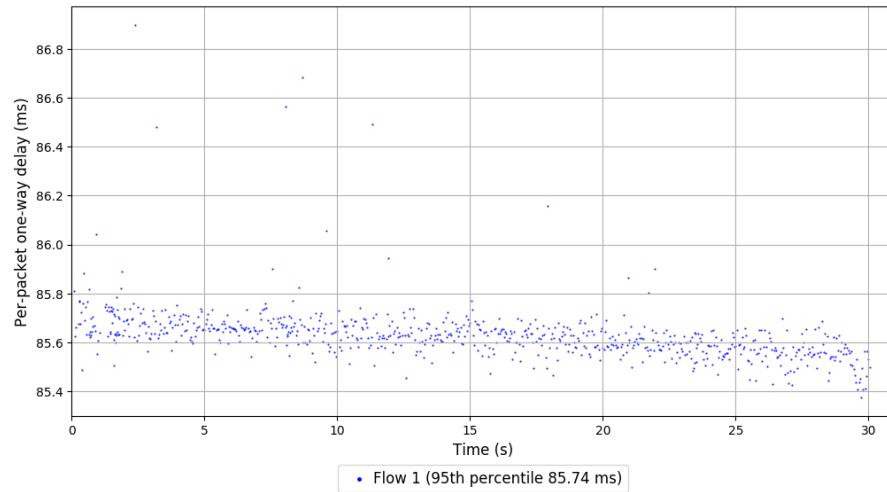
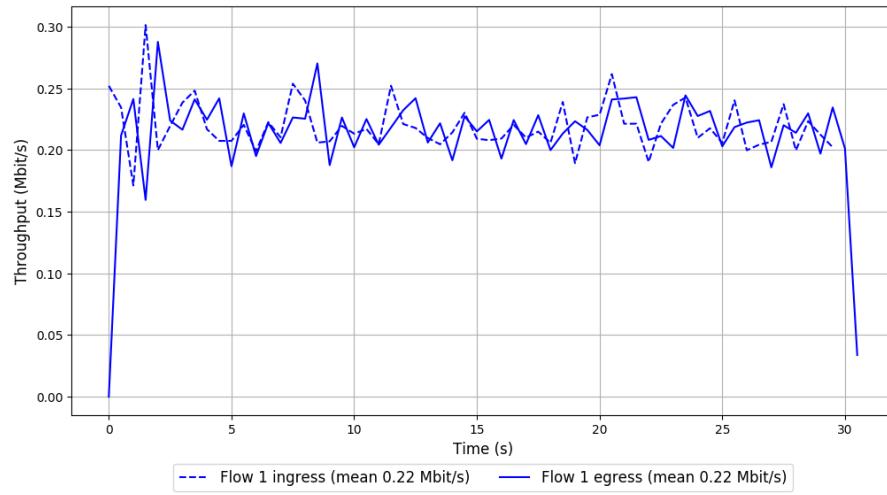


Run 2: Statistics of SCReAM

```
Start at: 2019-02-11 12:27:57
End at: 2019-02-11 12:28:27
Local clock offset: -18.816 ms
Remote clock offset: 6.472 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.739 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.739 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

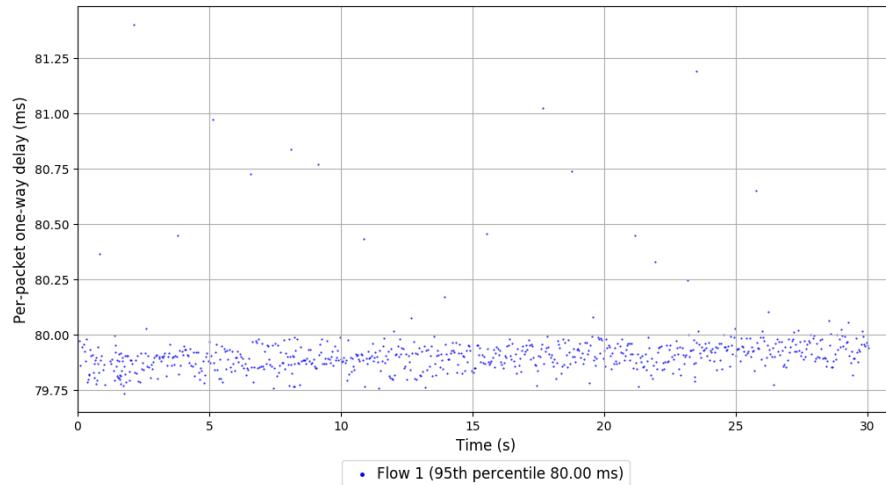
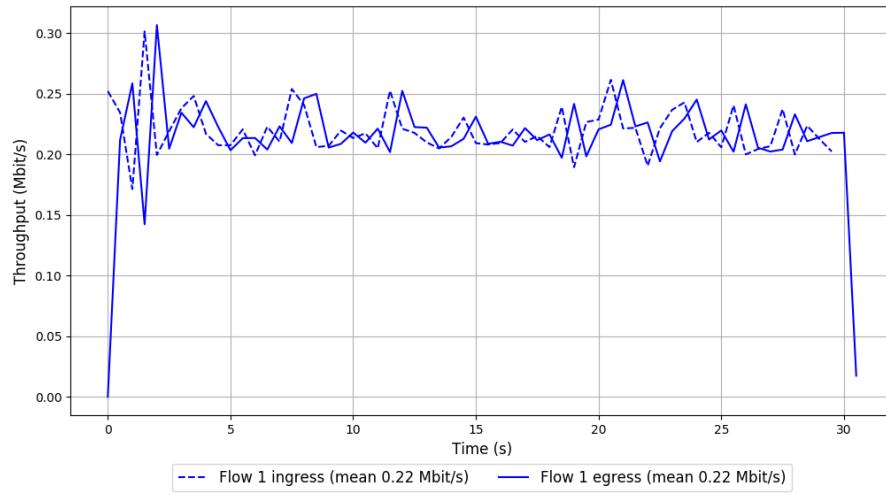


Run 3: Statistics of SCReAM

```
Start at: 2019-02-11 12:52:42
End at: 2019-02-11 12:53:12
Local clock offset: -7.279 ms
Remote clock offset: 1.689 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.995 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.995 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

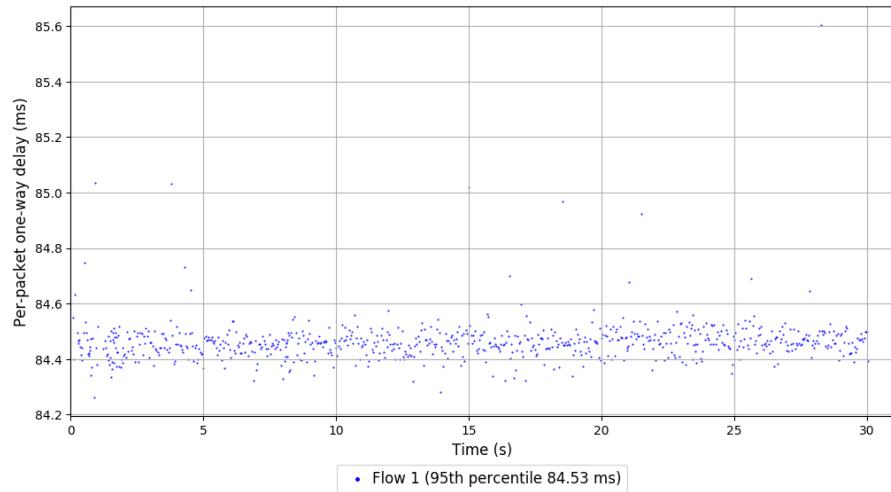
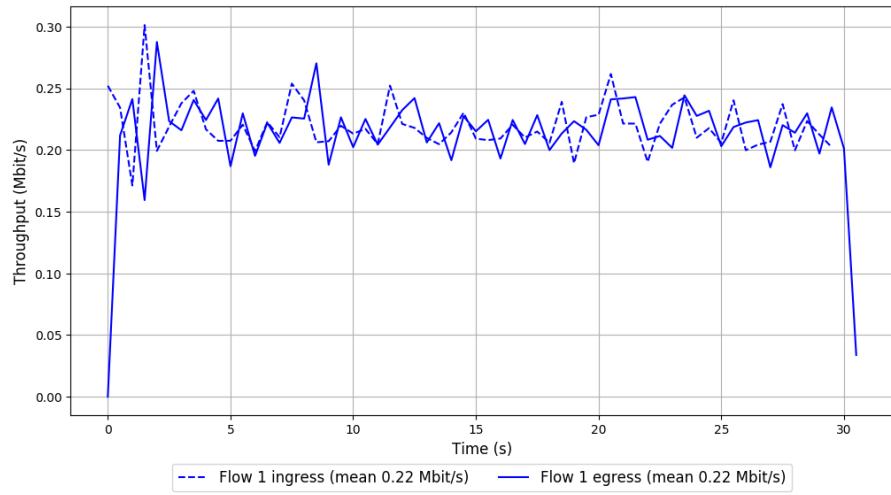


Run 4: Statistics of SCReAM

```
Start at: 2019-02-11 13:17:43
End at: 2019-02-11 13:18:13
Local clock offset: -4.478 ms
Remote clock offset: 5.396 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.535 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.535 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

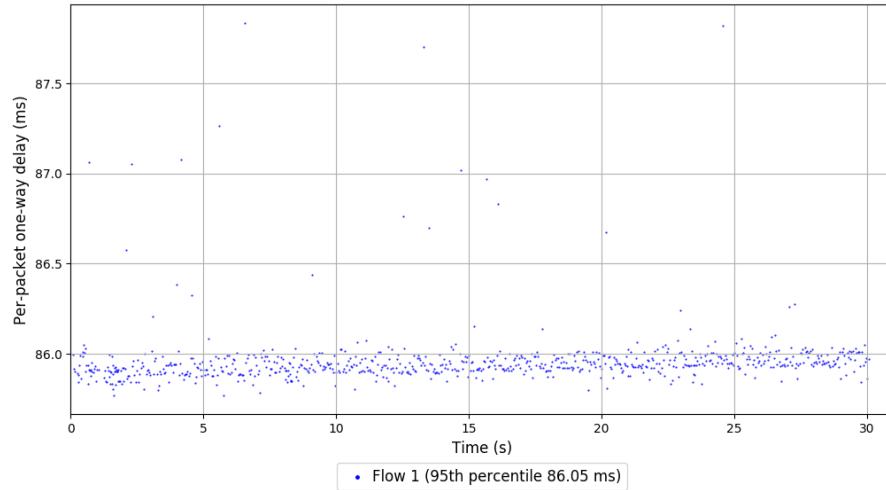
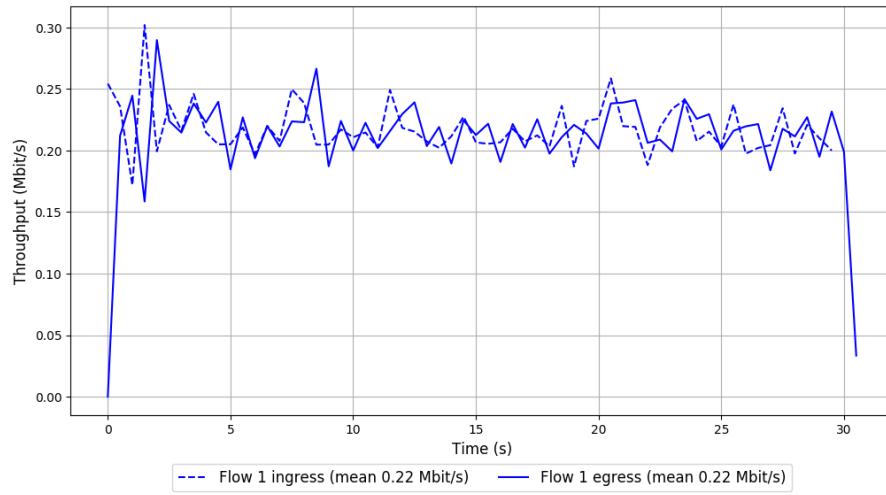


Run 5: Statistics of SCReAM

```
Start at: 2019-02-11 13:42:29
End at: 2019-02-11 13:43:00
Local clock offset: -2.899 ms
Remote clock offset: 6.026 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.045 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.045 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

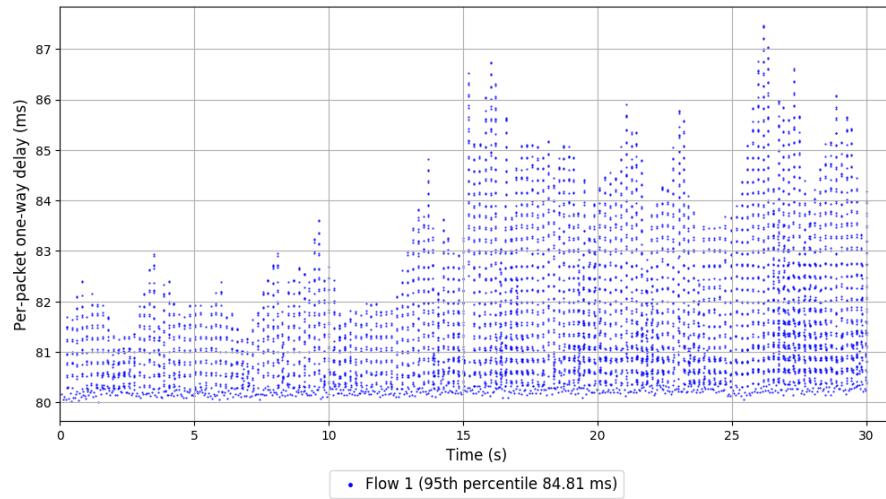
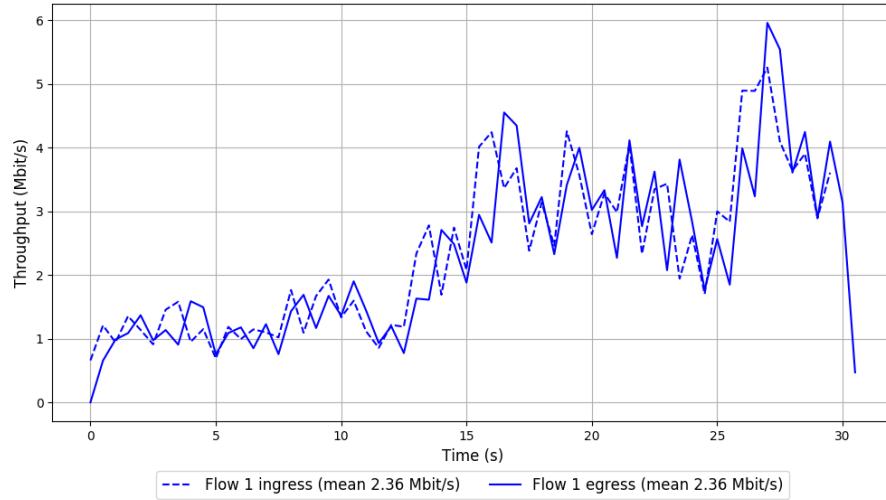


Run 1: Statistics of Sprout

```
Start at: 2019-02-11 12:15:01
End at: 2019-02-11 12:15:31
Local clock offset: -17.56 ms
Remote clock offset: 1.518 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 84.813 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 84.813 ms
Loss rate: 0.07%
```

Run 1: Report of Sprout — Data Link

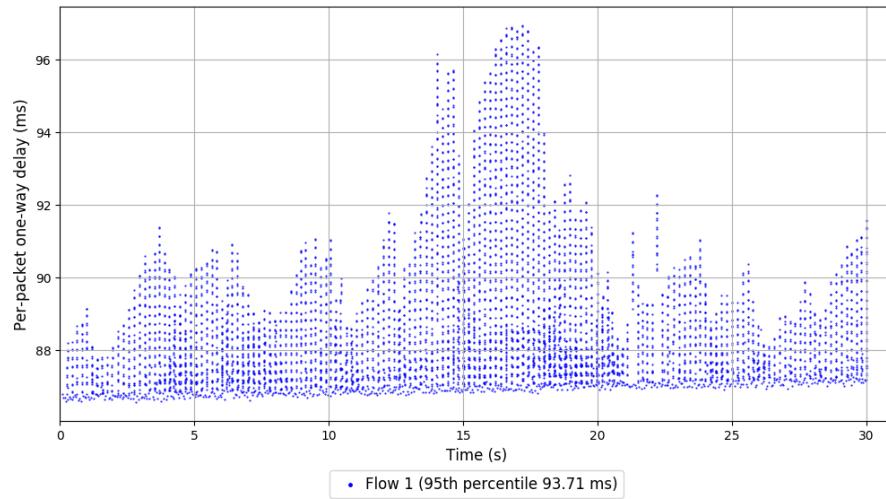
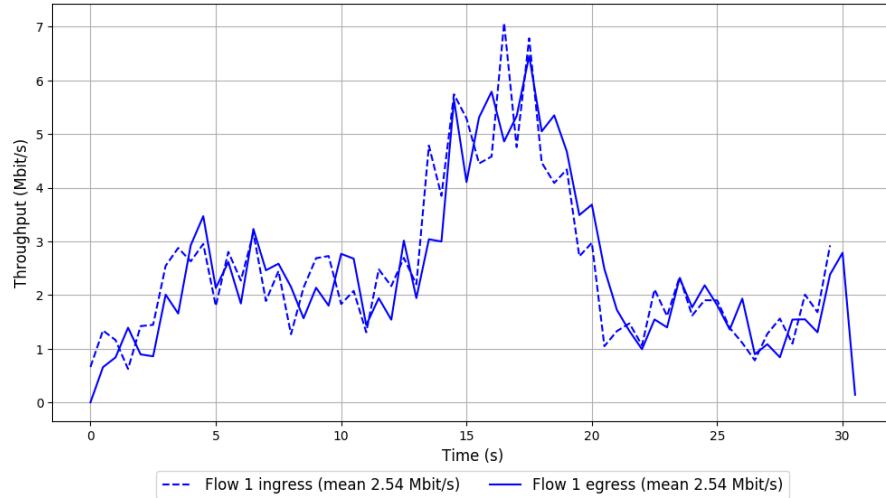


Run 2: Statistics of Sprout

```
Start at: 2019-02-11 12:39:41
End at: 2019-02-11 12:40:11
Local clock offset: -13.956 ms
Remote clock offset: 6.222 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 93.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 93.708 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

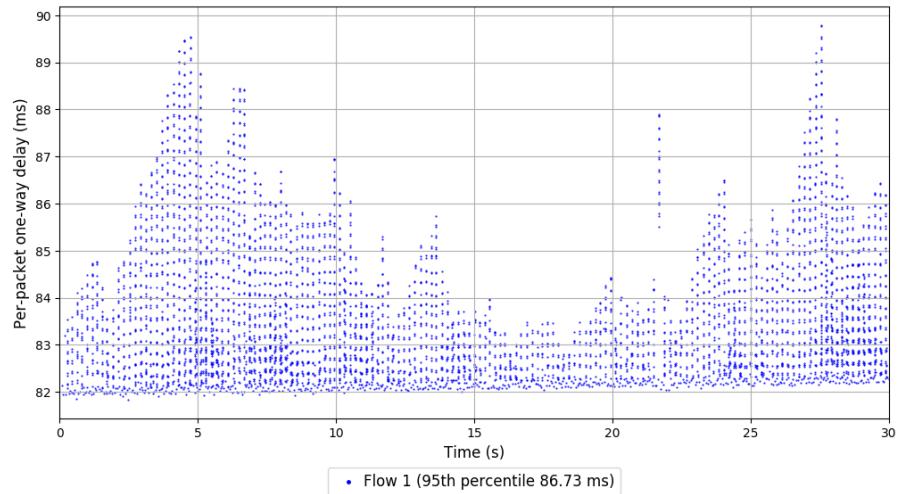
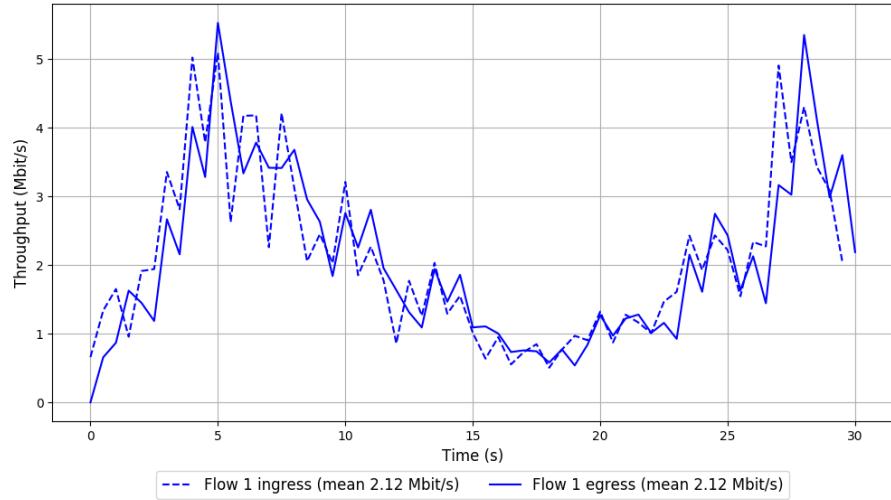


Run 3: Statistics of Sprout

```
Start at: 2019-02-11 13:04:36
End at: 2019-02-11 13:05:06
Local clock offset: -8.323 ms
Remote clock offset: 1.645 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 86.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 86.726 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

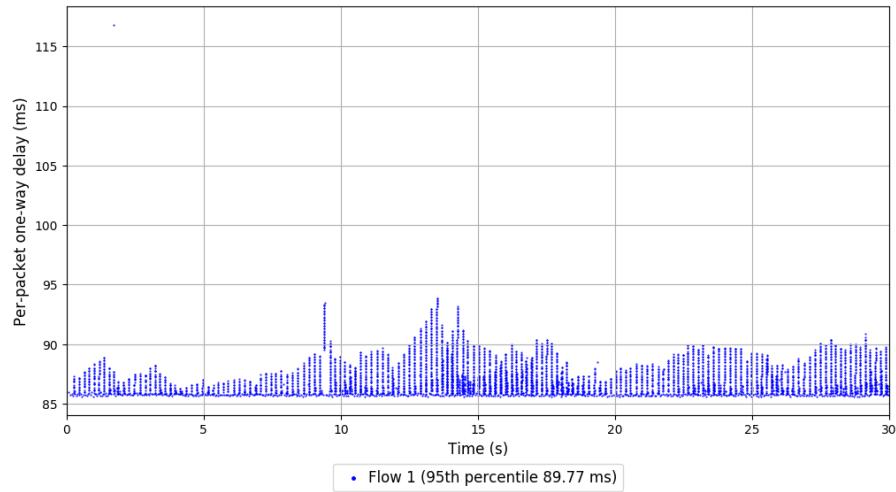
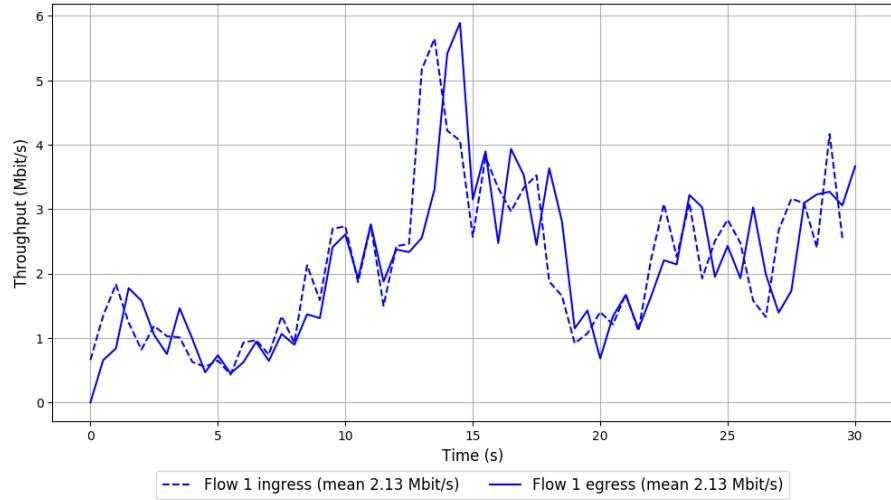


Run 4: Statistics of Sprout

```
Start at: 2019-02-11 13:29:31
End at: 2019-02-11 13:30:01
Local clock offset: -4.641 ms
Remote clock offset: 6.926 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 89.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 89.774 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

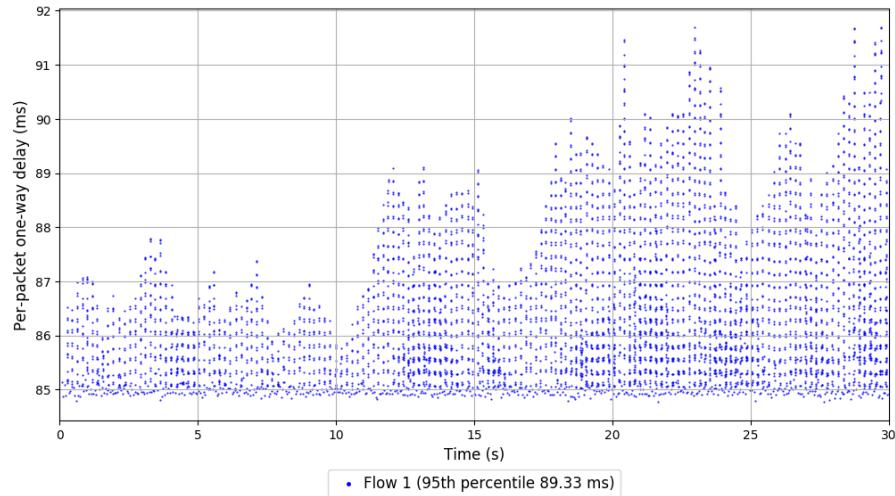
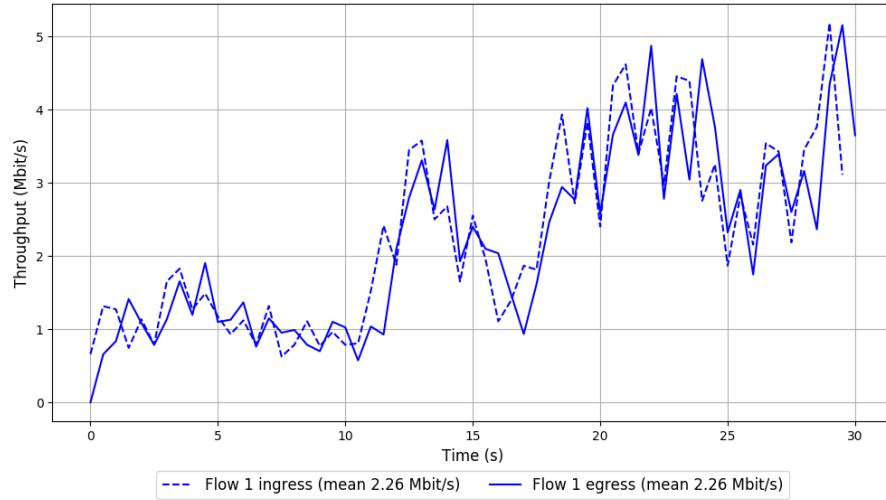


Run 5: Statistics of Sprout

```
Start at: 2019-02-11 13:54:17
End at: 2019-02-11 13:54:47
Local clock offset: -2.962 ms
Remote clock offset: 5.984 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 89.331 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 89.331 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

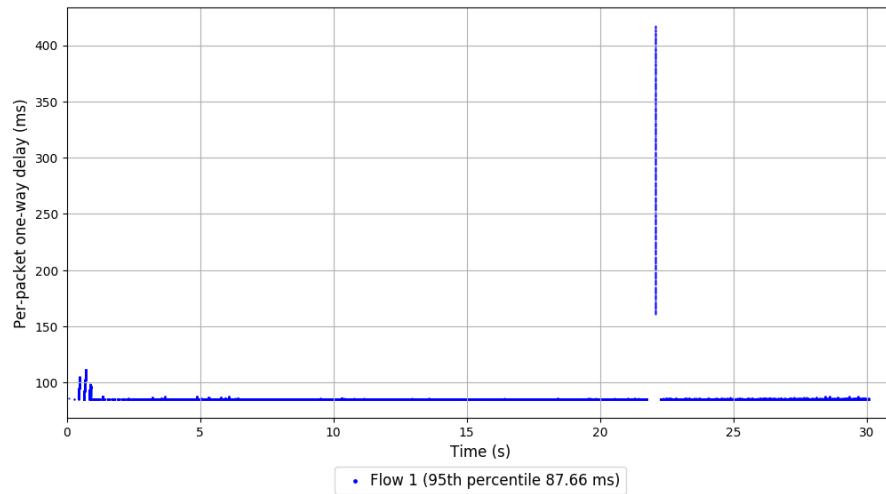
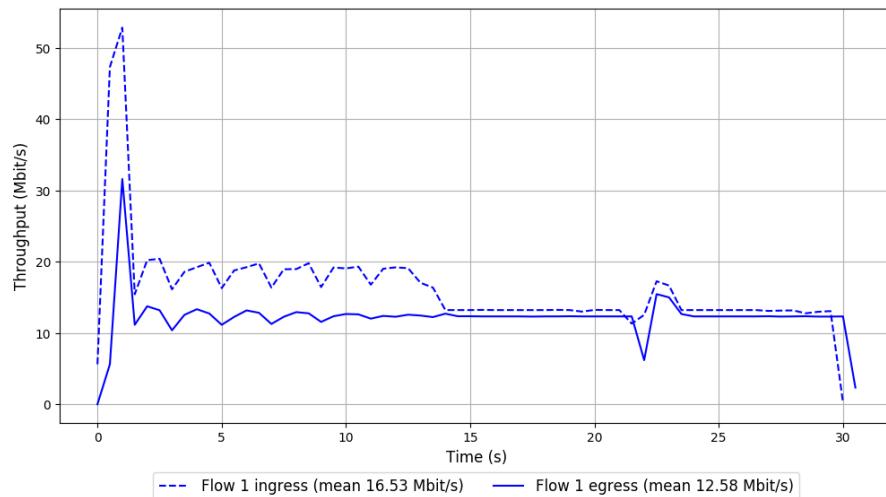


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-02-11 12:11:28
End at: 2019-02-11 12:11:58
Local clock offset: -18.921 ms
Remote clock offset: 5.699 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 87.656 ms
Loss rate: 23.85%
-- Flow 1:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 87.656 ms
Loss rate: 23.85%
```

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

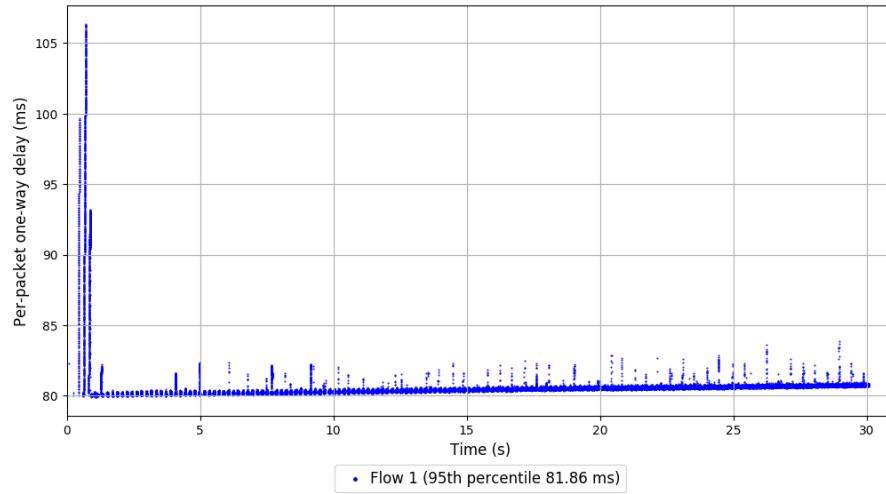
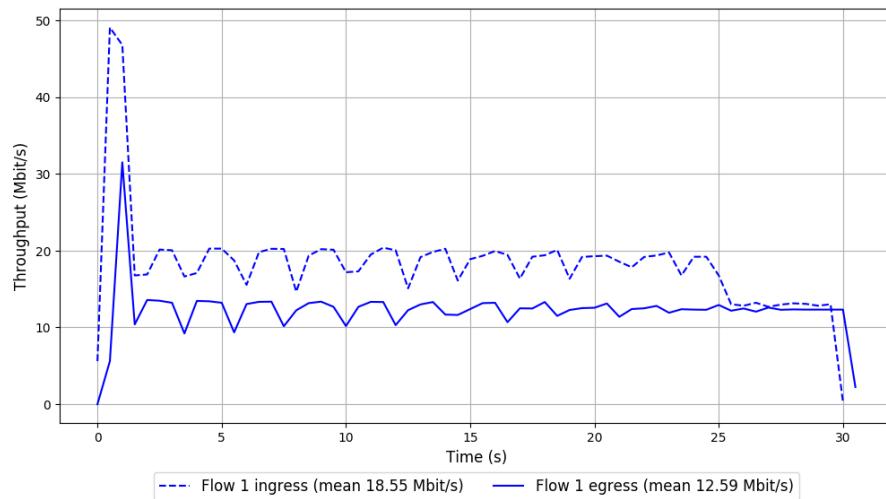


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-02-11 12:36:08
End at: 2019-02-11 12:36:38
Local clock offset: -17.739 ms
Remote clock offset: 1.412 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 81.858 ms
Loss rate: 32.17%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 81.858 ms
Loss rate: 32.17%
```

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

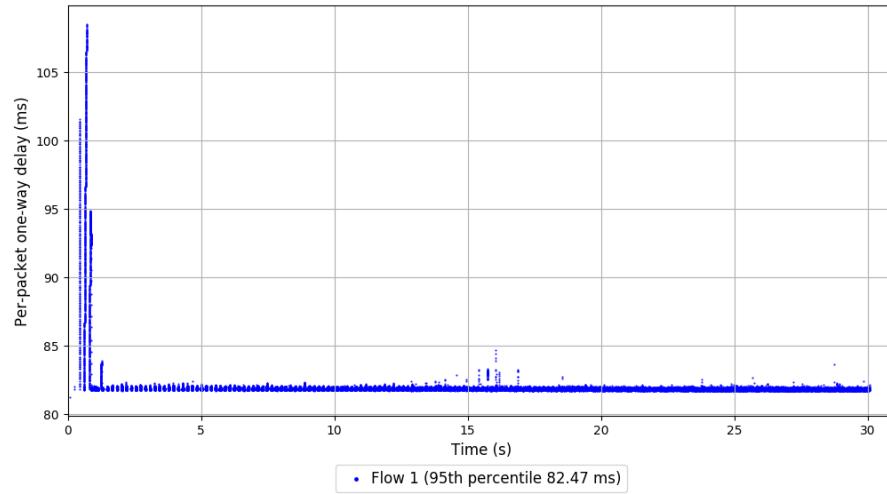
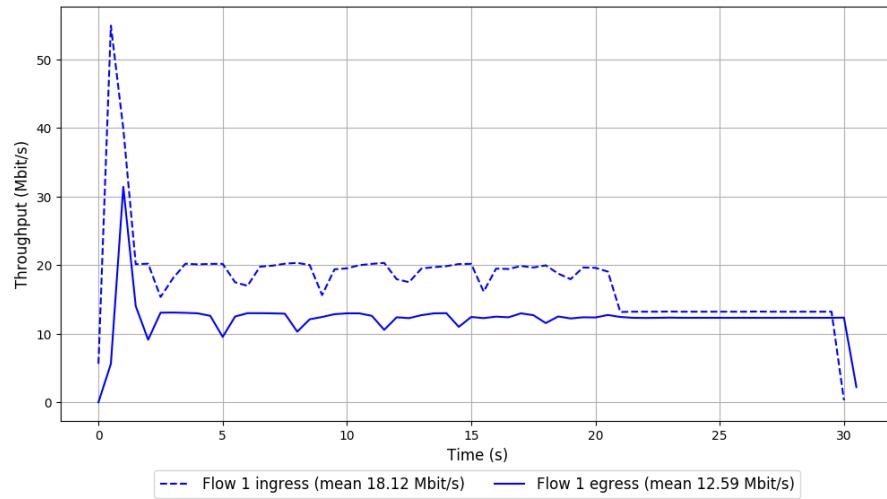


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-02-11 13:01:01
End at: 2019-02-11 13:01:31
Local clock offset: -8.073 ms
Remote clock offset: 0.581 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 82.466 ms
Loss rate: 30.53%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 82.466 ms
Loss rate: 30.53%
```

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

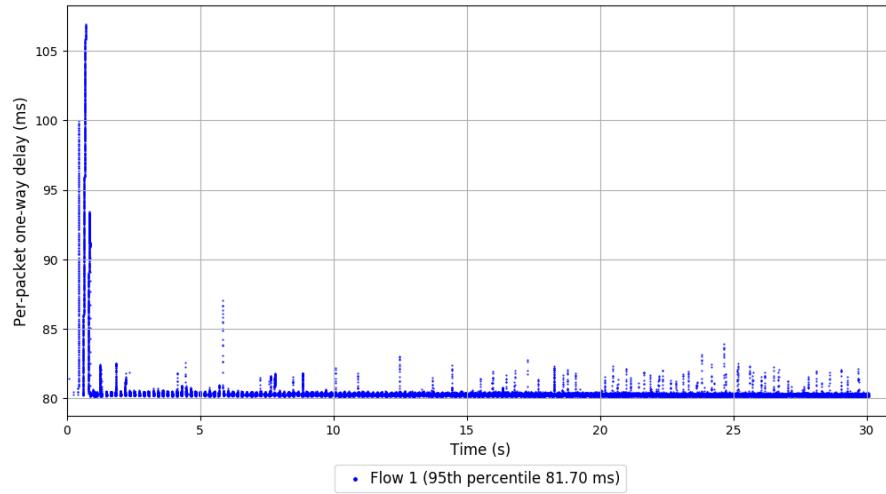
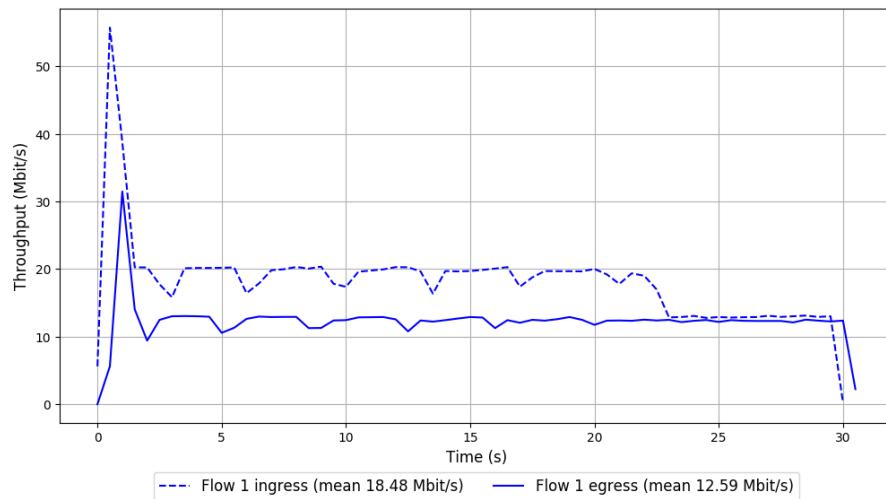


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-02-11 13:25:56
End at: 2019-02-11 13:26:26
Local clock offset: -5.182 ms
Remote clock offset: 0.727 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 81.697 ms
Loss rate: 31.87%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 81.697 ms
Loss rate: 31.87%
```

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

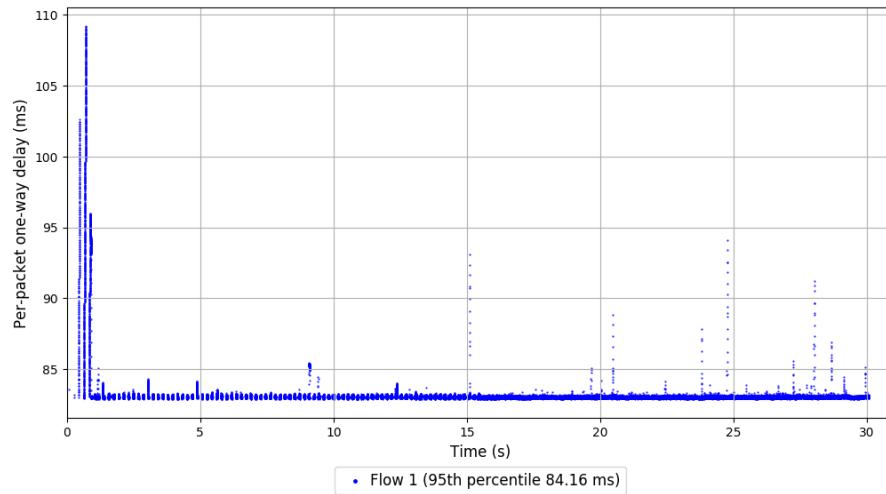
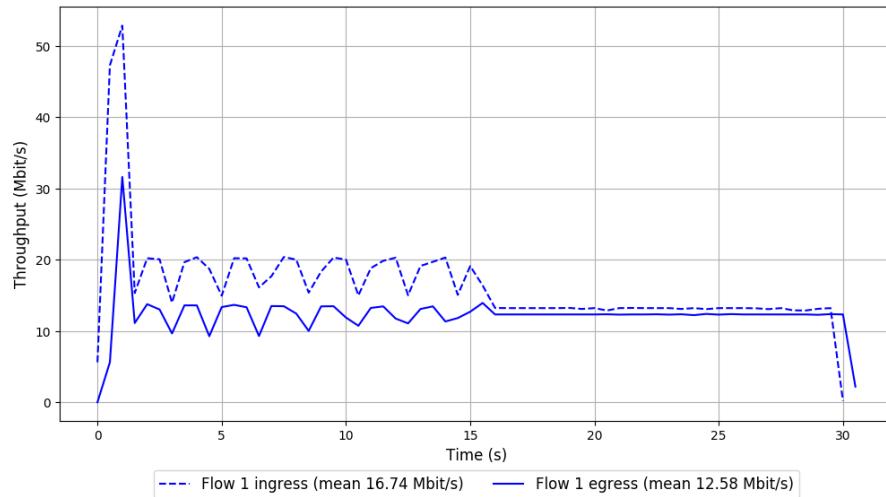


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-02-11 13:50:43
End at: 2019-02-11 13:51:13
Local clock offset: -3.026 ms
Remote clock offset: 1.98 ms

# Below is generated by plot.py at 2019-02-11 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 84.164 ms
Loss rate: 24.85%
-- Flow 1:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 84.164 ms
Loss rate: 24.85%
```

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

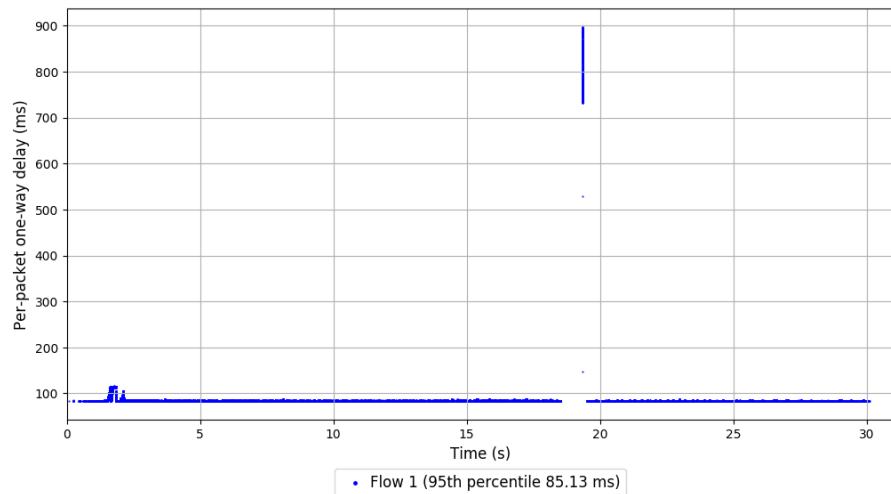
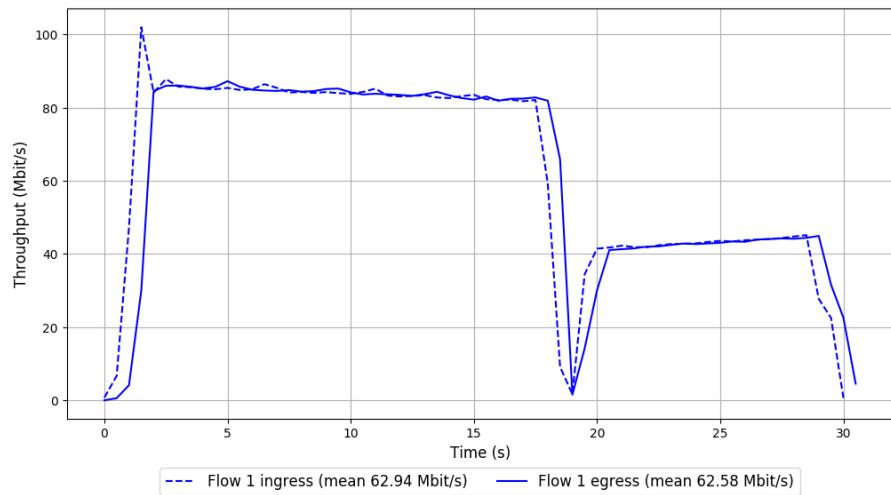


Run 1: Statistics of TCP Vegas

```
Start at: 2019-02-11 12:17:21
End at: 2019-02-11 12:17:51
Local clock offset: -17.158 ms
Remote clock offset: 5.506 ms

# Below is generated by plot.py at 2019-02-11 14:12:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.58 Mbit/s
95th percentile per-packet one-way delay: 85.130 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 62.58 Mbit/s
95th percentile per-packet one-way delay: 85.130 ms
Loss rate: 0.57%
```

Run 1: Report of TCP Vegas — Data Link

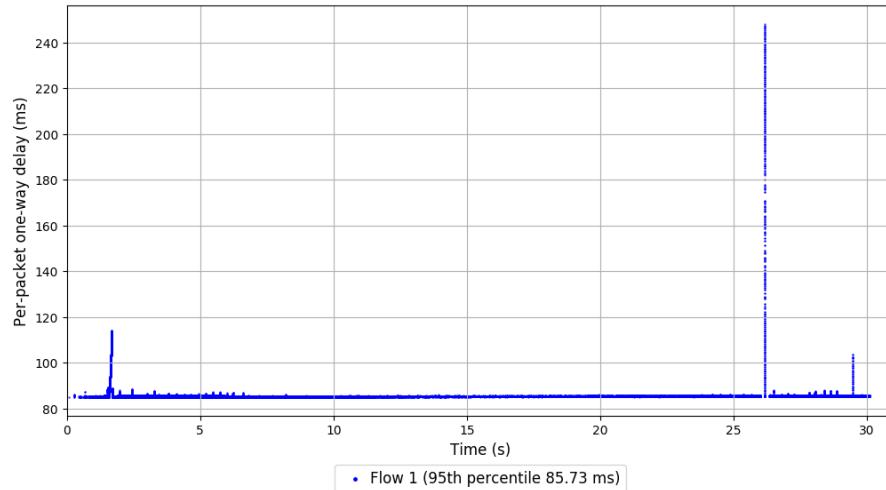
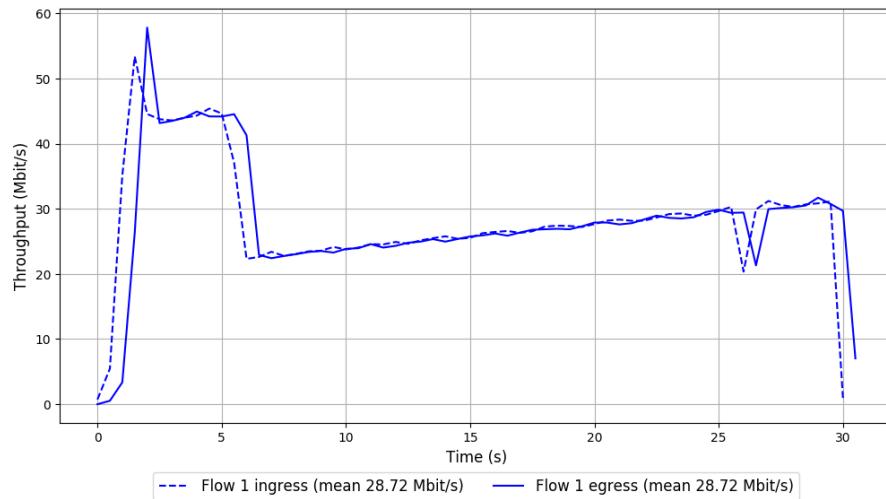


Run 2: Statistics of TCP Vegas

```
Start at: 2019-02-11 12:42:02
End at: 2019-02-11 12:42:32
Local clock offset: -11.941 ms
Remote clock offset: 5.285 ms

# Below is generated by plot.py at 2019-02-11 14:12:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.72 Mbit/s
95th percentile per-packet one-way delay: 85.734 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 28.72 Mbit/s
95th percentile per-packet one-way delay: 85.734 ms
Loss rate: 0.01%
```

Run 2: Report of TCP Vegas — Data Link

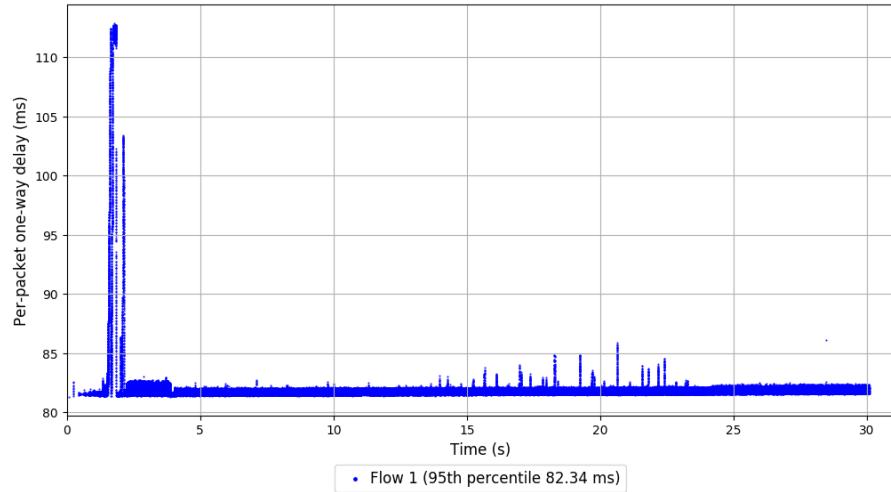
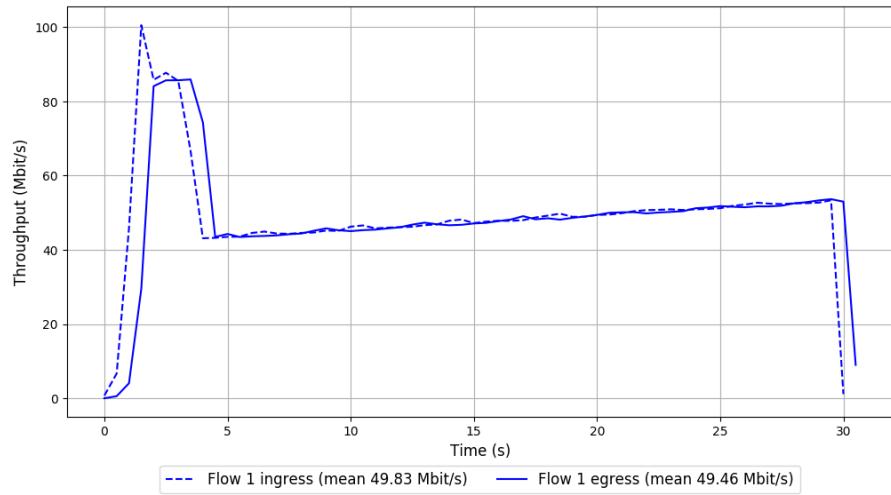


Run 3: Statistics of TCP Vegas

```
Start at: 2019-02-11 13:06:56
End at: 2019-02-11 13:07:26
Local clock offset: -6.46 ms
Remote clock offset: 1.676 ms

# Below is generated by plot.py at 2019-02-11 14:12:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.46 Mbit/s
95th percentile per-packet one-way delay: 82.340 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 49.46 Mbit/s
95th percentile per-packet one-way delay: 82.340 ms
Loss rate: 0.73%
```

Run 3: Report of TCP Vegas — Data Link

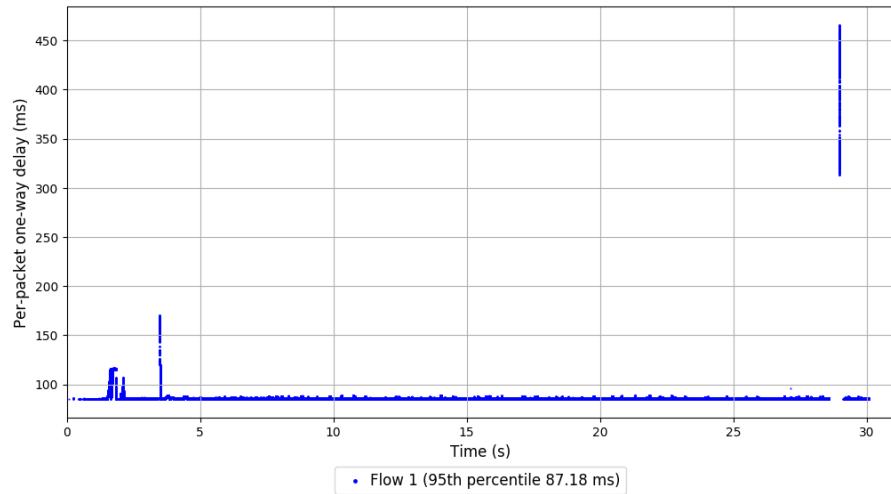
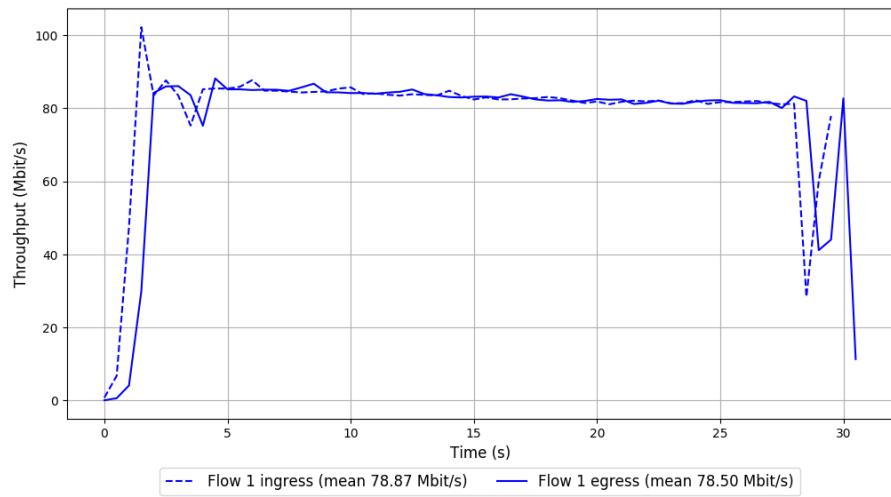


Run 4: Statistics of TCP Vegas

```
Start at: 2019-02-11 13:31:51
End at: 2019-02-11 13:32:21
Local clock offset: -5.569 ms
Remote clock offset: 5.788 ms

# Below is generated by plot.py at 2019-02-11 14:13:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.50 Mbit/s
95th percentile per-packet one-way delay: 87.183 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 78.50 Mbit/s
95th percentile per-packet one-way delay: 87.183 ms
Loss rate: 0.46%
```

Run 4: Report of TCP Vegas — Data Link

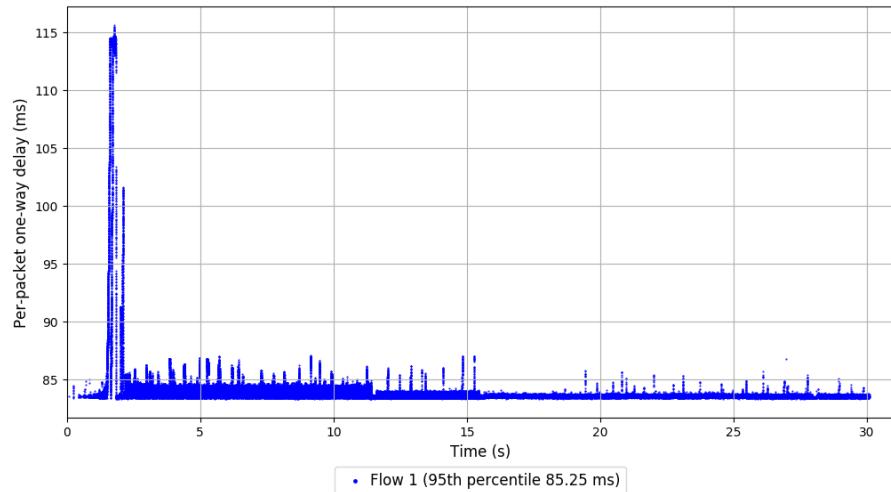
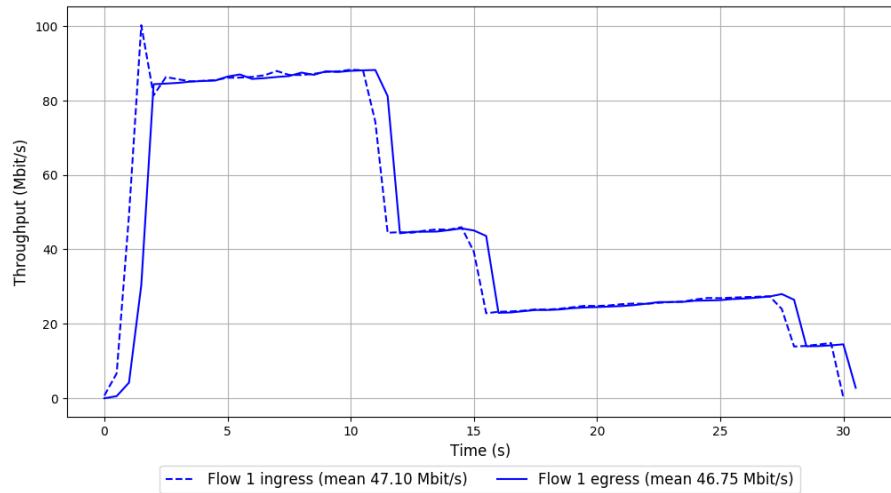


Run 5: Statistics of TCP Vegas

```
Start at: 2019-02-11 13:56:36
End at: 2019-02-11 13:57:06
Local clock offset: -3.047 ms
Remote clock offset: 4.637 ms

# Below is generated by plot.py at 2019-02-11 14:13:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.75 Mbit/s
95th percentile per-packet one-way delay: 85.248 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 46.75 Mbit/s
95th percentile per-packet one-way delay: 85.248 ms
Loss rate: 0.75%
```

Run 5: Report of TCP Vegas — Data Link

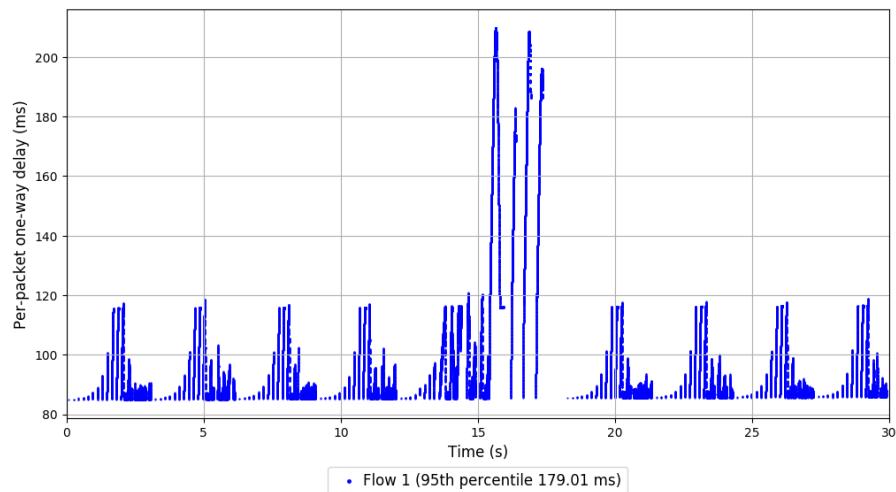
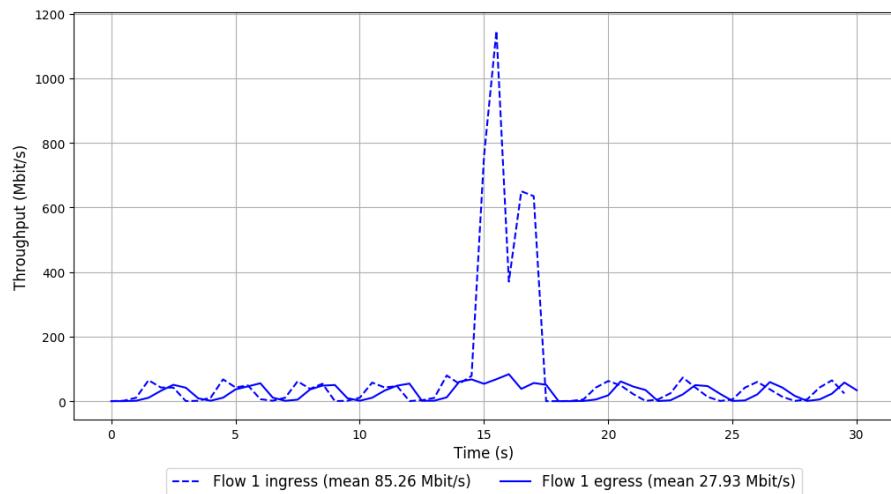


Run 1: Statistics of Verus

```
Start at: 2019-02-11 12:04:26
End at: 2019-02-11 12:04:56
Local clock offset: -27.108 ms
Remote clock offset: 6.533 ms

# Below is generated by plot.py at 2019-02-11 14:13:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.93 Mbit/s
95th percentile per-packet one-way delay: 179.015 ms
Loss rate: 67.24%
-- Flow 1:
Average throughput: 27.93 Mbit/s
95th percentile per-packet one-way delay: 179.015 ms
Loss rate: 67.24%
```

Run 1: Report of Verus — Data Link

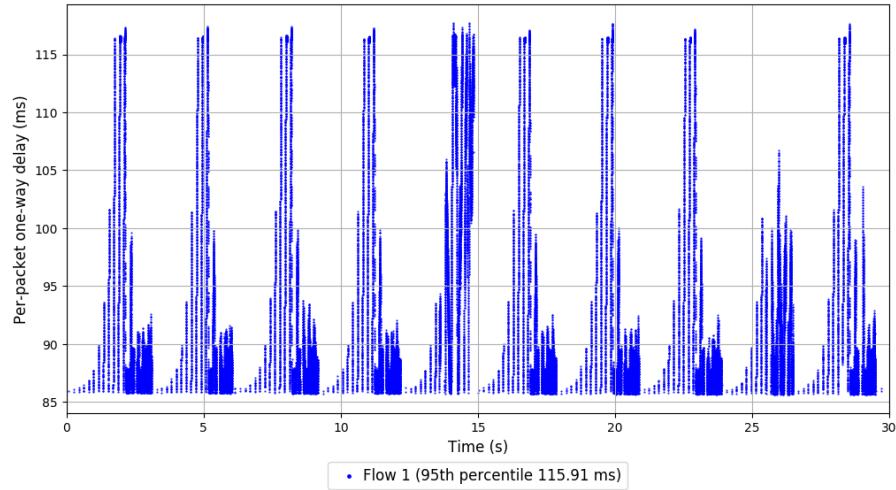
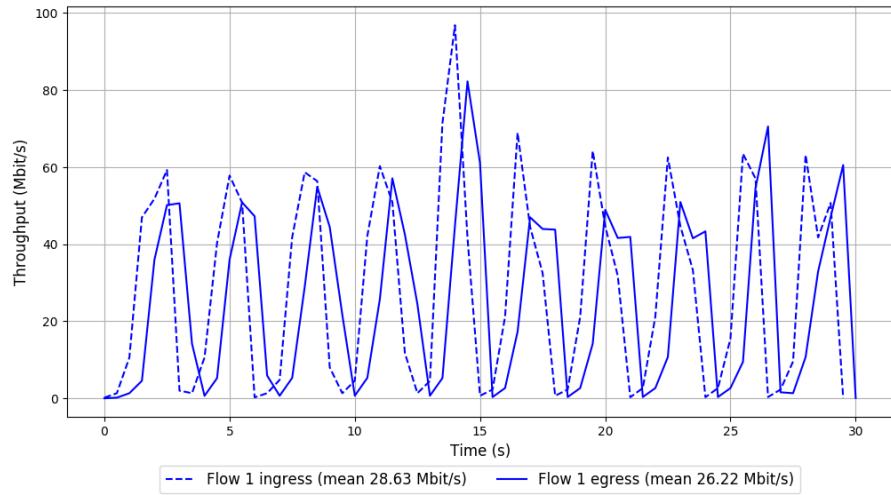


Run 2: Statistics of Verus

```
Start at: 2019-02-11 12:29:04
End at: 2019-02-11 12:29:34
Local clock offset: -19.952 ms
Remote clock offset: 6.502 ms

# Below is generated by plot.py at 2019-02-11 14:13:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.22 Mbit/s
95th percentile per-packet one-way delay: 115.912 ms
Loss rate: 8.41%
-- Flow 1:
Average throughput: 26.22 Mbit/s
95th percentile per-packet one-way delay: 115.912 ms
Loss rate: 8.41%
```

Run 2: Report of Verus — Data Link

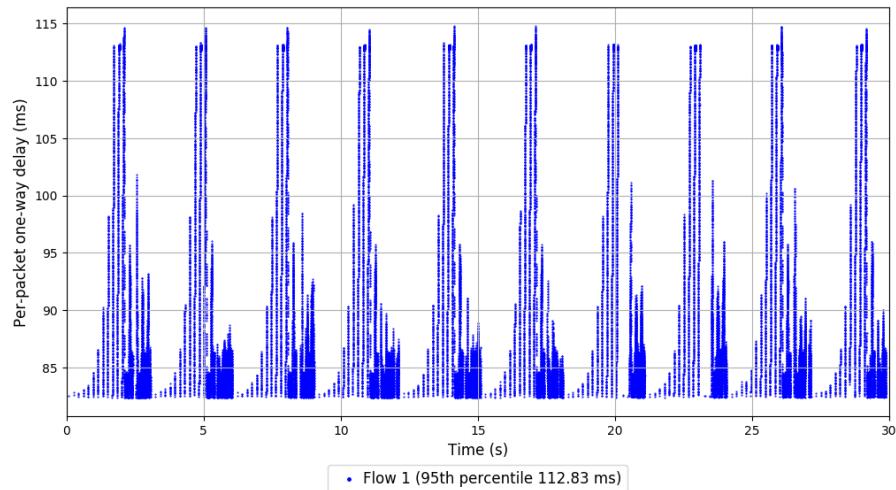
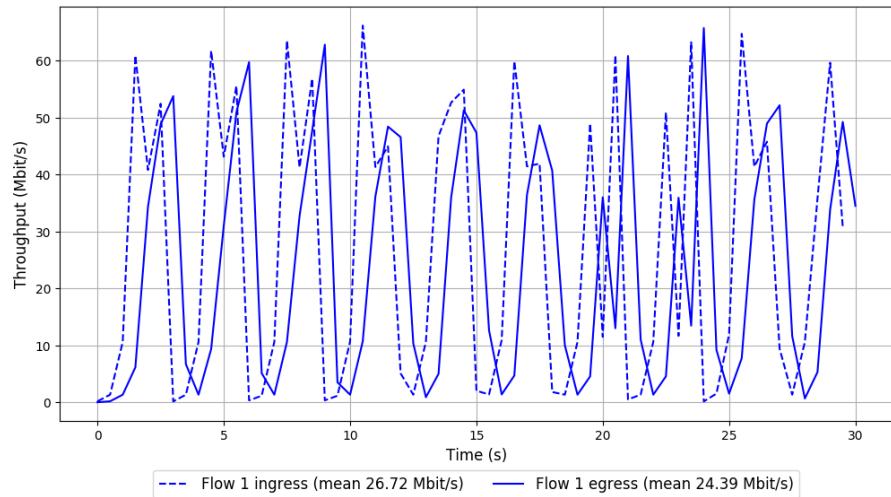


Run 3: Statistics of Verus

```
Start at: 2019-02-11 12:53:49
End at: 2019-02-11 12:54:19
Local clock offset: -7.197 ms
Remote clock offset: 0.627 ms

# Below is generated by plot.py at 2019-02-11 14:13:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.39 Mbit/s
95th percentile per-packet one-way delay: 112.835 ms
Loss rate: 8.69%
-- Flow 1:
Average throughput: 24.39 Mbit/s
95th percentile per-packet one-way delay: 112.835 ms
Loss rate: 8.69%
```

Run 3: Report of Verus — Data Link

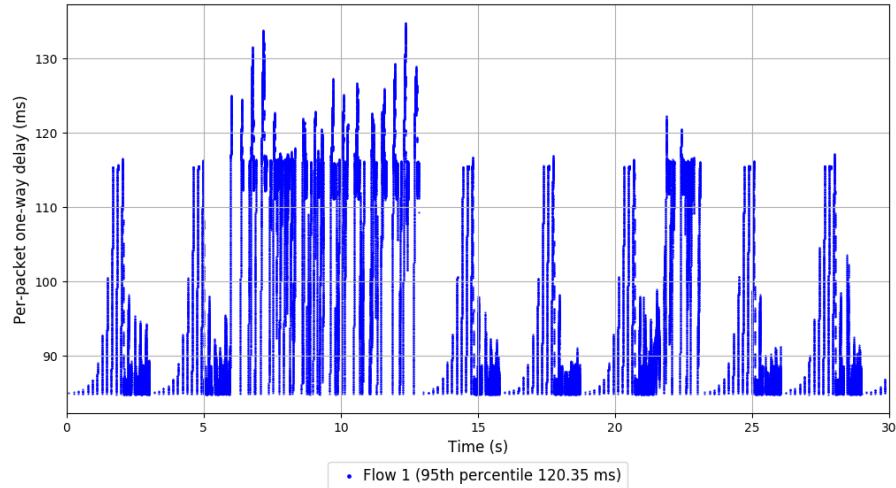
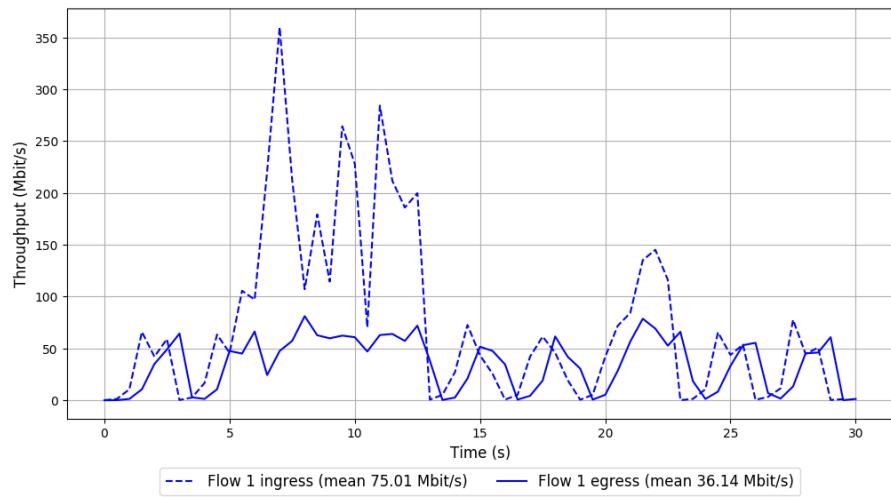


Run 4: Statistics of Verus

```
Start at: 2019-02-11 13:18:51
End at: 2019-02-11 13:19:21
Local clock offset: -5.132 ms
Remote clock offset: 5.365 ms

# Below is generated by plot.py at 2019-02-11 14:13:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.14 Mbit/s
95th percentile per-packet one-way delay: 120.351 ms
Loss rate: 51.81%
-- Flow 1:
Average throughput: 36.14 Mbit/s
95th percentile per-packet one-way delay: 120.351 ms
Loss rate: 51.81%
```

Run 4: Report of Verus — Data Link

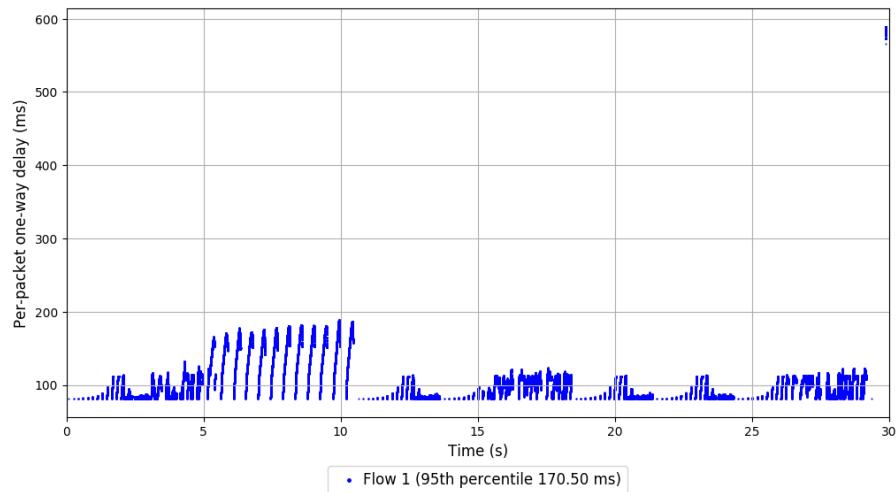
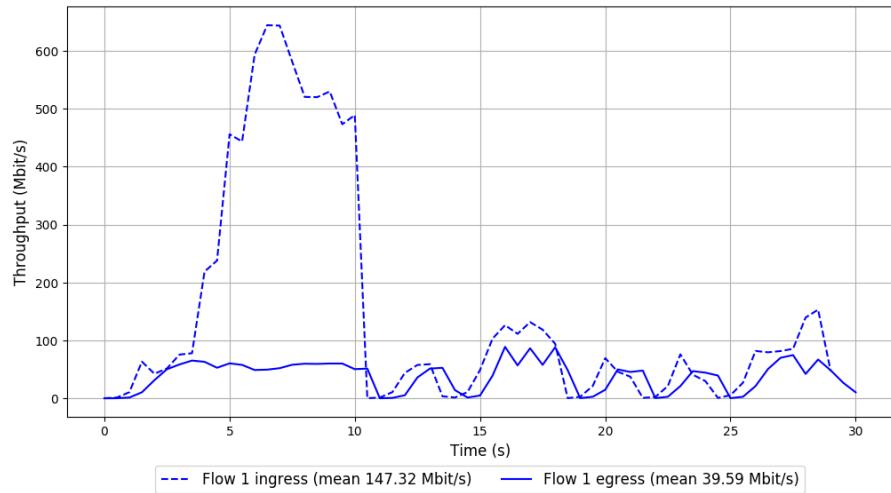


Run 5: Statistics of Verus

```
Start at: 2019-02-11 13:43:37
End at: 2019-02-11 13:44:07
Local clock offset: -2.829 ms
Remote clock offset: 2.043 ms

# Below is generated by plot.py at 2019-02-11 14:13:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.59 Mbit/s
95th percentile per-packet one-way delay: 170.505 ms
Loss rate: 72.68%
-- Flow 1:
Average throughput: 39.59 Mbit/s
95th percentile per-packet one-way delay: 170.505 ms
Loss rate: 72.68%
```

Run 5: Report of Verus — Data Link

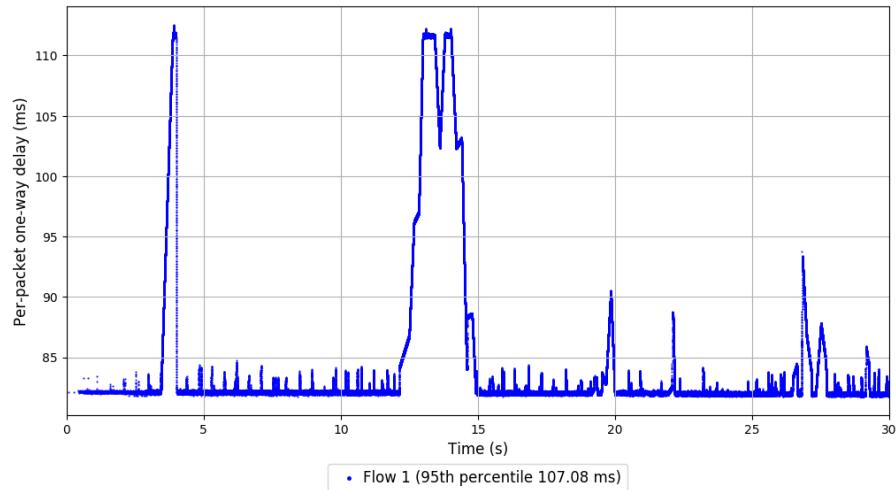
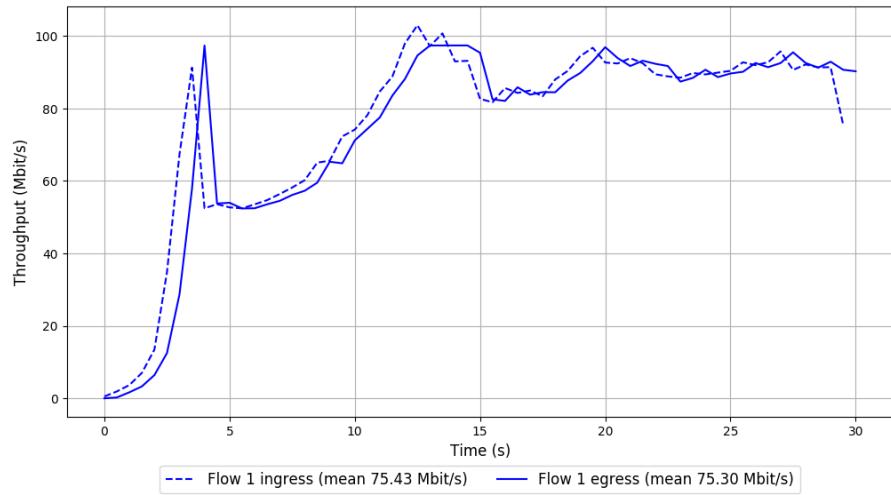


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-02-11 12:02:06
End at: 2019-02-11 12:02:36
Local clock offset: -25.793 ms
Remote clock offset: 2.873 ms

# Below is generated by plot.py at 2019-02-11 14:13:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.30 Mbit/s
95th percentile per-packet one-way delay: 107.076 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 75.30 Mbit/s
95th percentile per-packet one-way delay: 107.076 ms
Loss rate: 0.17%
```

Run 1: Report of PCC-Vivace — Data Link

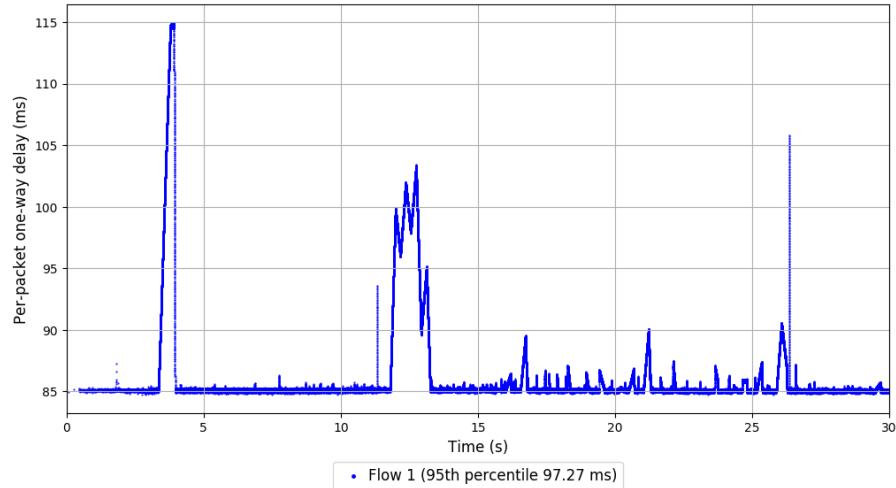
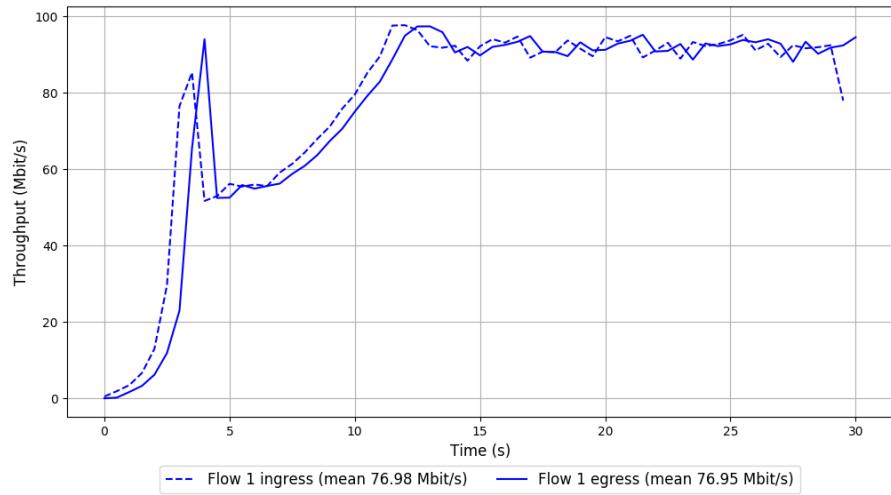


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-02-11 12:26:44
End at: 2019-02-11 12:27:14
Local clock offset: -18.424 ms
Remote clock offset: 6.5 ms

# Below is generated by plot.py at 2019-02-11 14:13:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.95 Mbit/s
95th percentile per-packet one-way delay: 97.270 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 76.95 Mbit/s
95th percentile per-packet one-way delay: 97.270 ms
Loss rate: 0.04%
```

Run 2: Report of PCC-Vivace — Data Link

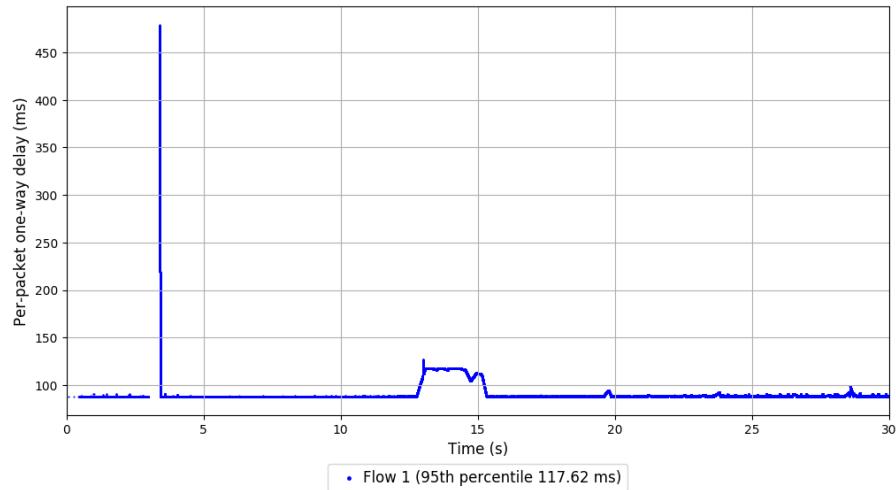
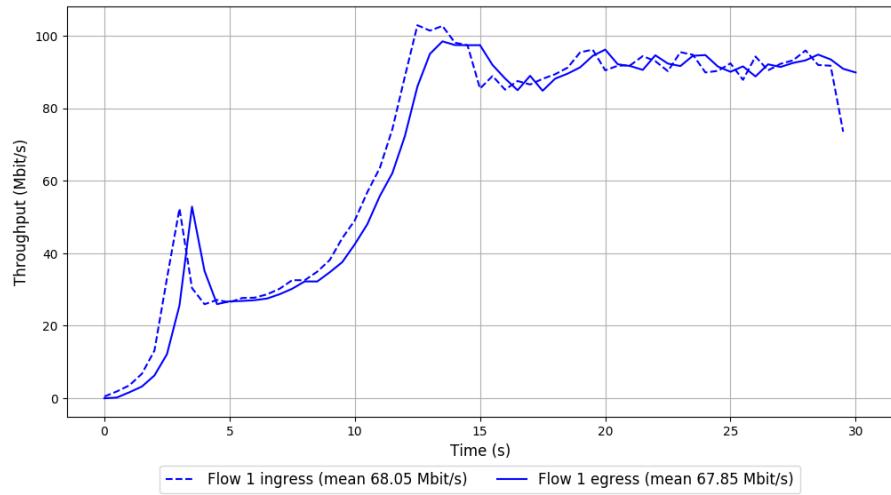


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-02-11 12:51:28
End at: 2019-02-11 12:51:58
Local clock offset: -7.419 ms
Remote clock offset: 6.981 ms

# Below is generated by plot.py at 2019-02-11 14:13:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.85 Mbit/s
95th percentile per-packet one-way delay: 117.617 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 67.85 Mbit/s
95th percentile per-packet one-way delay: 117.617 ms
Loss rate: 0.30%
```

Run 3: Report of PCC-Vivace — Data Link

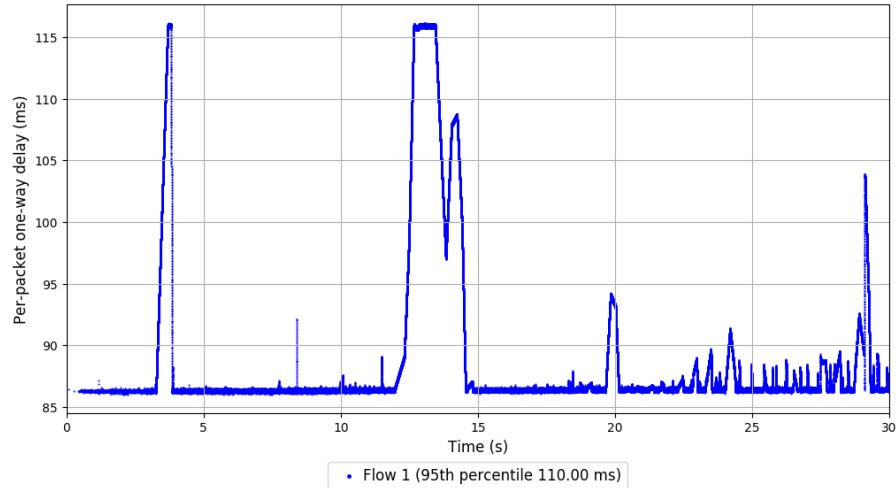
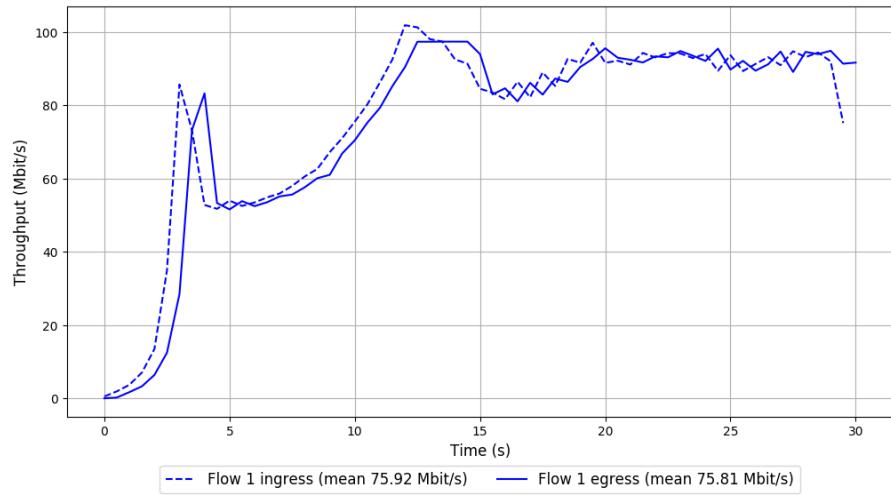


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-02-11 13:16:30
End at: 2019-02-11 13:17:00
Local clock offset: -4.494 ms
Remote clock offset: 6.497 ms

# Below is generated by plot.py at 2019-02-11 14:13:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 109.999 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 109.999 ms
Loss rate: 0.15%
```

Run 4: Report of PCC-Vivace — Data Link

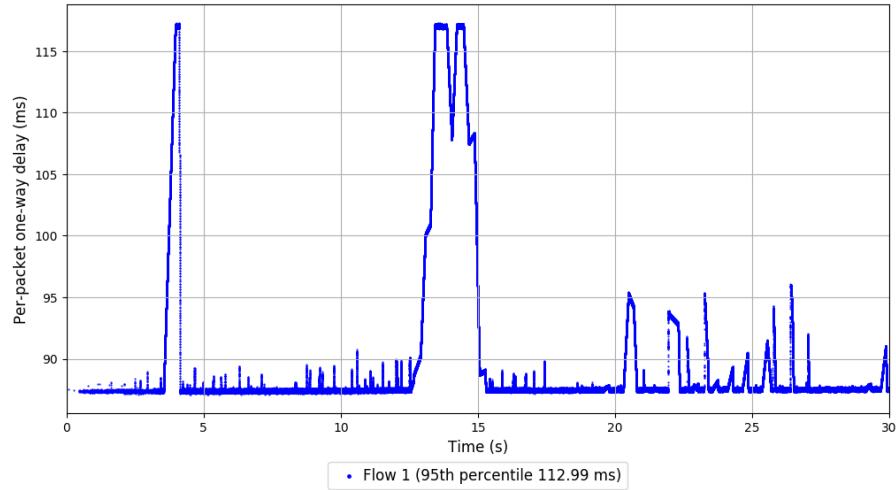
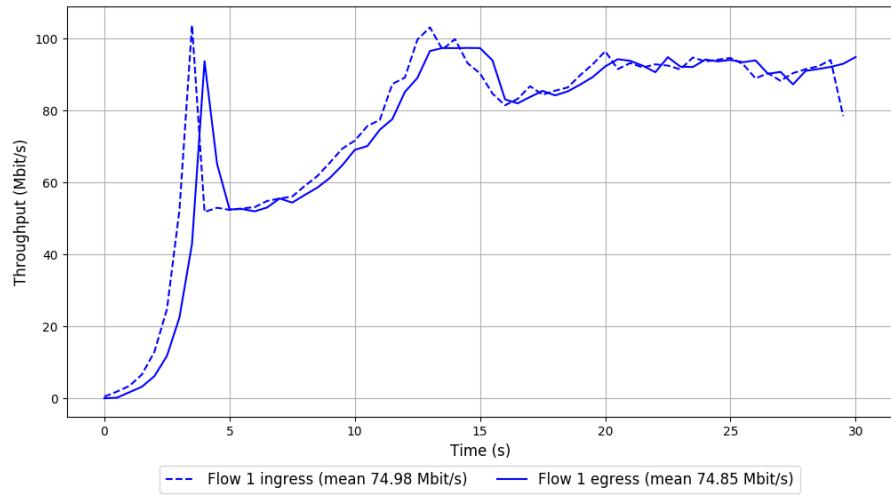


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-02-11 13:41:17
End at: 2019-02-11 13:41:47
Local clock offset: -3.84 ms
Remote clock offset: 6.825 ms

# Below is generated by plot.py at 2019-02-11 14:13:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.85 Mbit/s
95th percentile per-packet one-way delay: 112.993 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 74.85 Mbit/s
95th percentile per-packet one-way delay: 112.993 ms
Loss rate: 0.18%
```

Run 5: Report of PCC-Vivace — Data Link

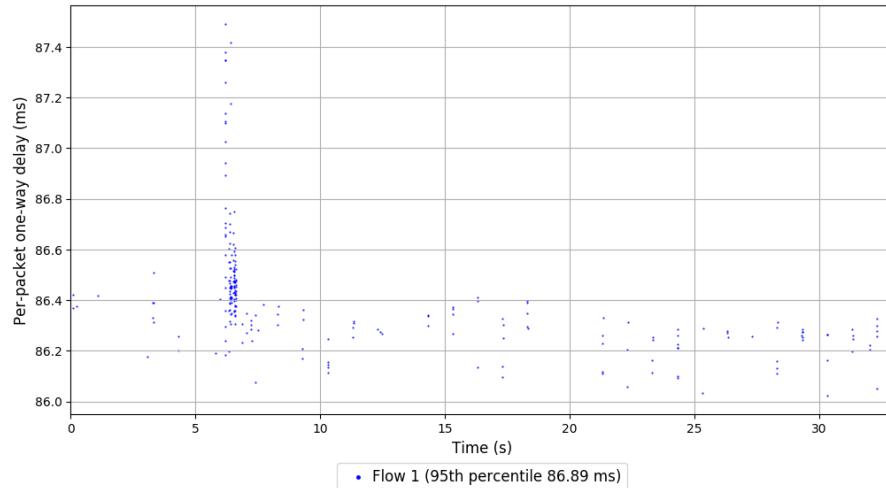
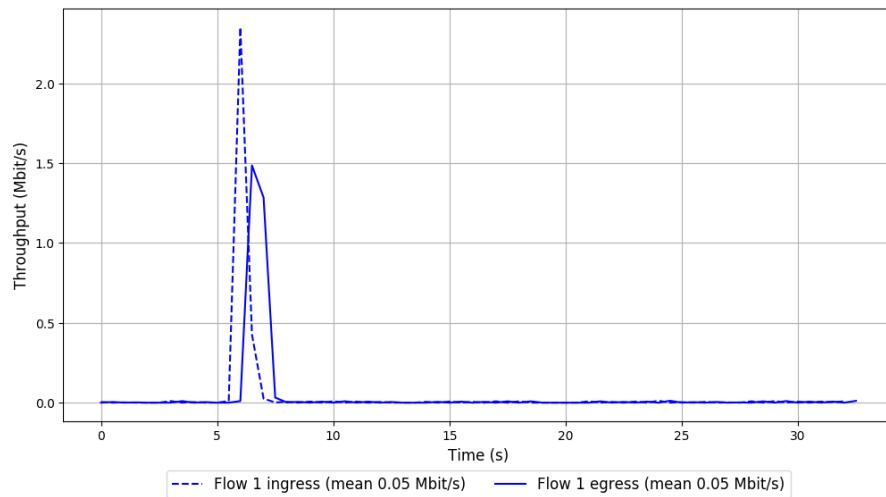


```
Run 1: Statistics of WebRTC media

Start at: 2019-02-11 12:23:13
End at: 2019-02-11 12:23:43
Local clock offset: -17.629 ms
Remote clock offset: 6.698 ms

# Below is generated by plot.py at 2019-02-11 14:13:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.894 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.894 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

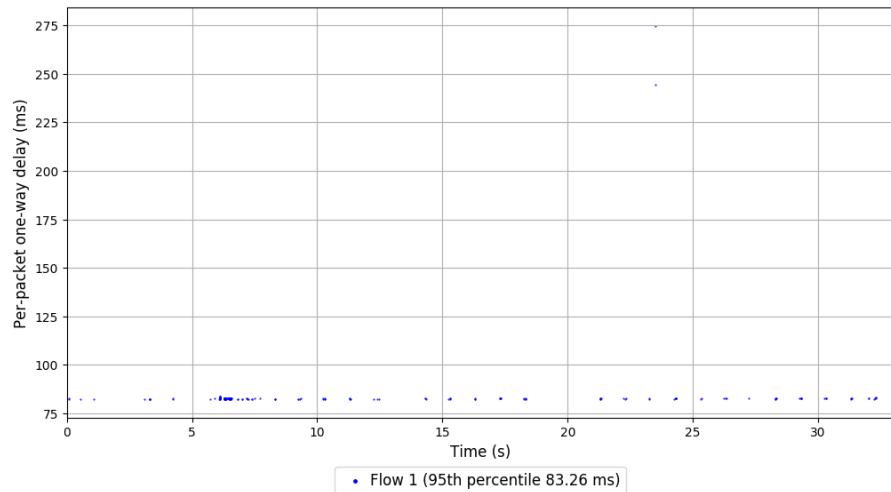
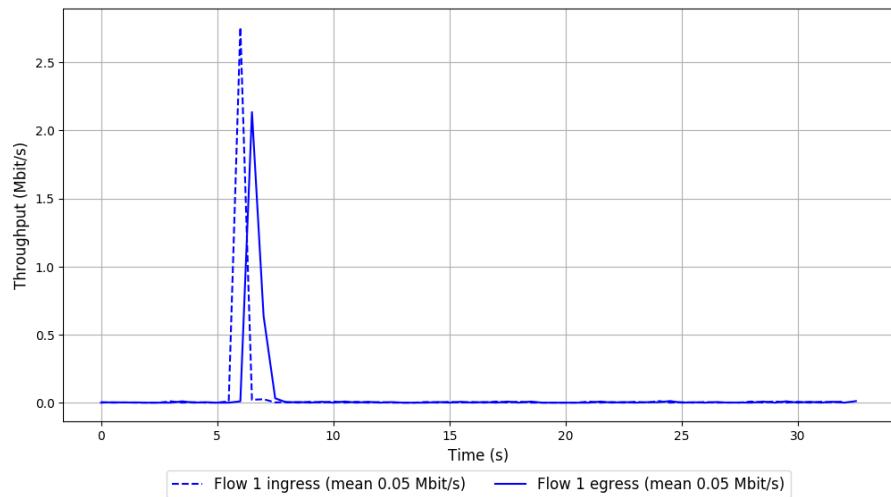


Run 2: Statistics of WebRTC media

```
Start at: 2019-02-11 12:47:55
End at: 2019-02-11 12:48:25
Local clock offset: -8.242 ms
Remote clock offset: 2.316 ms

# Below is generated by plot.py at 2019-02-11 14:13:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 83.264 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 83.264 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

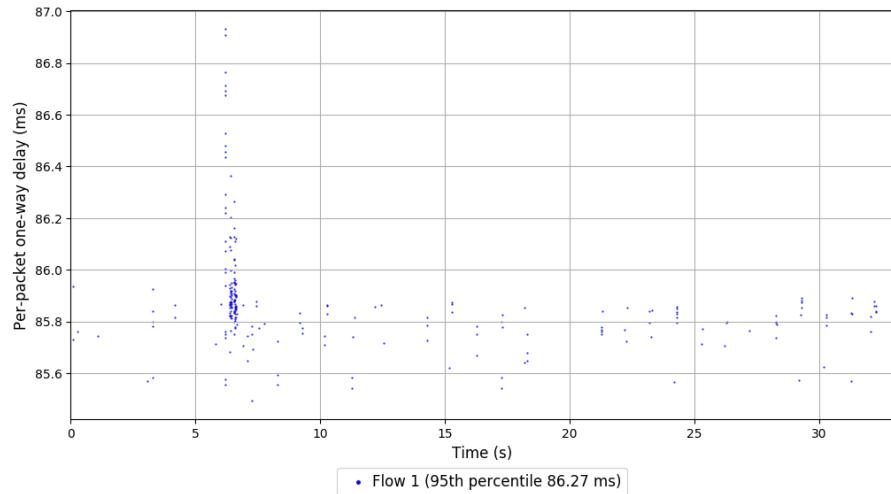
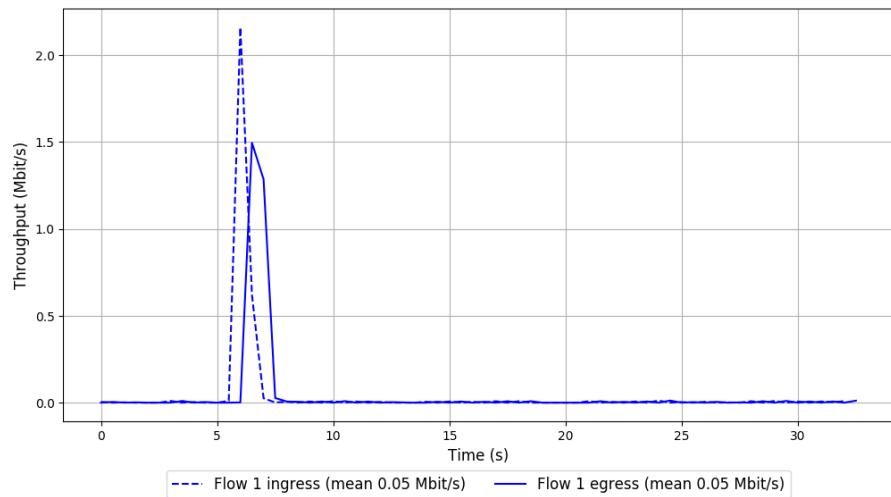


Run 3: Statistics of WebRTC media

```
Start at: 2019-02-11 13:12:58
End at: 2019-02-11 13:13:28
Local clock offset: -4.861 ms
Remote clock offset: 4.49 ms

# Below is generated by plot.py at 2019-02-11 14:13:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.266 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.266 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

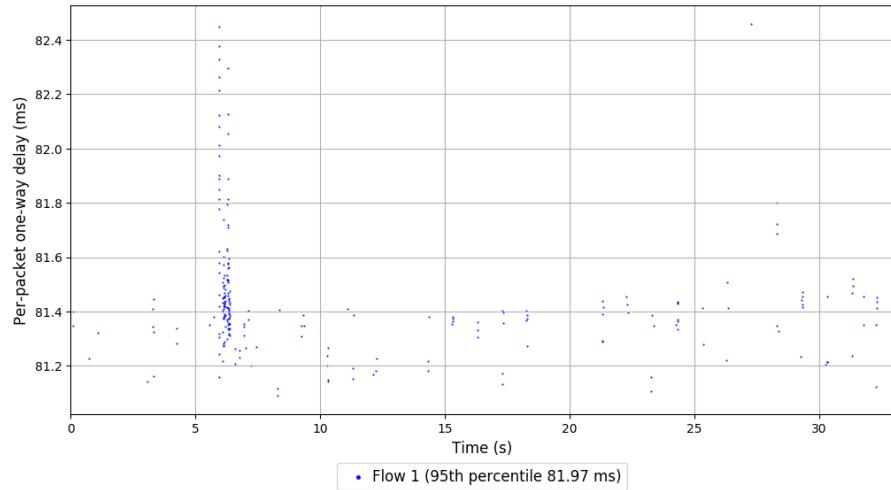
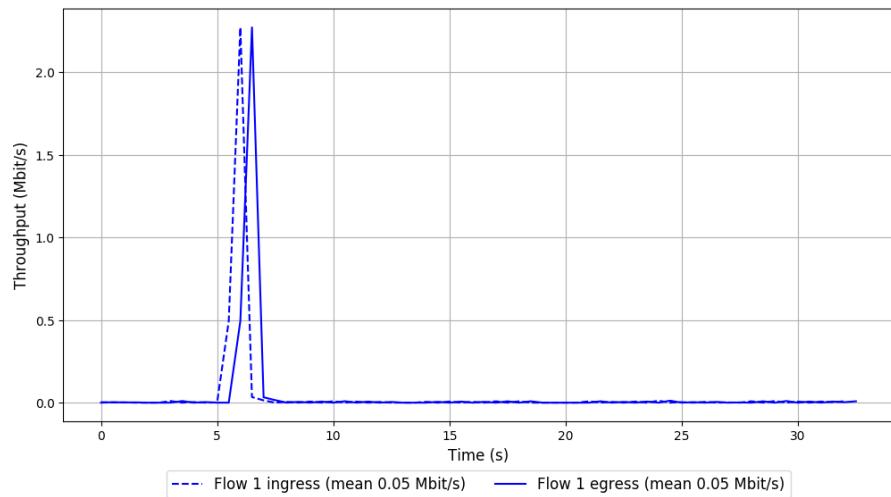


Run 4: Statistics of WebRTC media

```
Start at: 2019-02-11 13:37:45
End at: 2019-02-11 13:38:15
Local clock offset: -4.618 ms
Remote clock offset: 1.987 ms

# Below is generated by plot.py at 2019-02-11 14:13:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 81.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 81.974 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-02-11 14:02:34
End at: 2019-02-11 14:03:04
Local clock offset: -3.078 ms
Remote clock offset: 6.124 ms

# Below is generated by plot.py at 2019-02-11 14:13:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.599 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.599 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

