

Pantheon Report

Generated at 2019-03-26 22:19:38 (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.

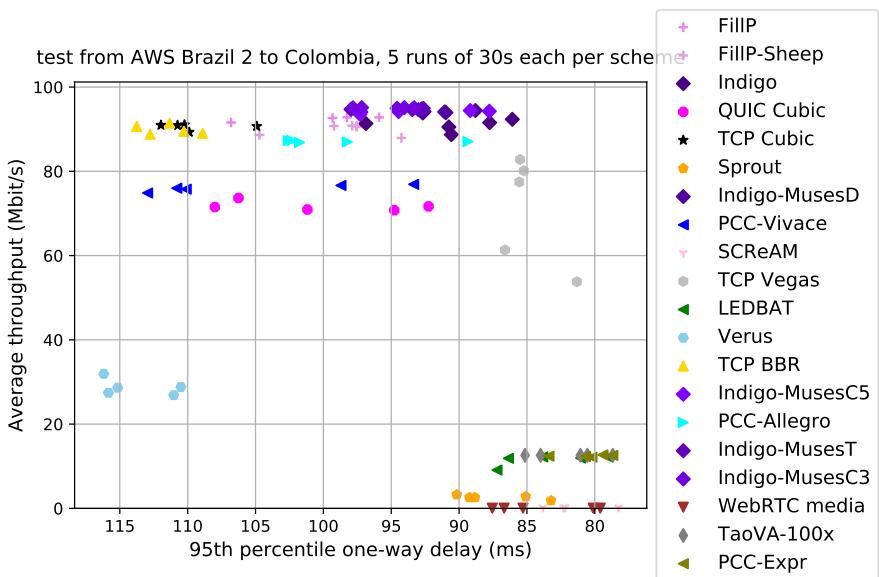
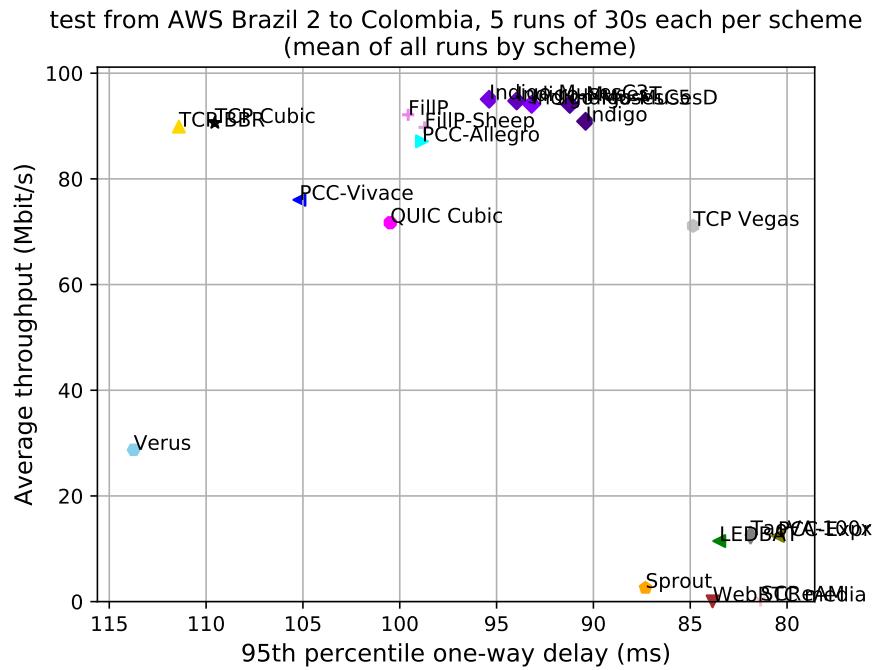
System info:

```
Linux 4.15.0-1034-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

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

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851



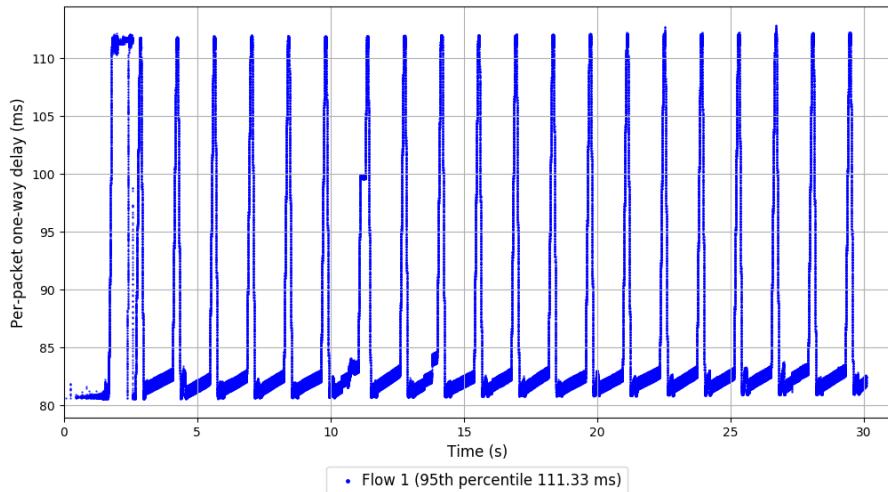
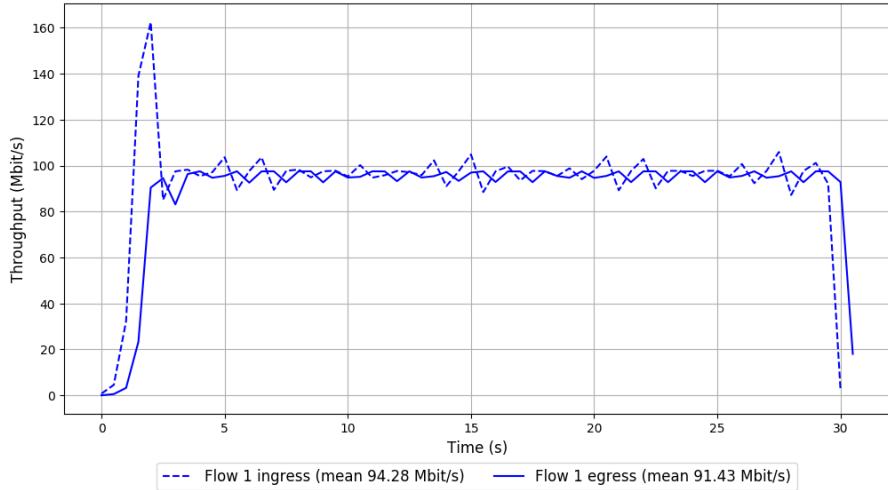
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	89.89	111.41	2.89
Copa	0	N/A	N/A	N/A
TCP Cubic	5	90.59	109.55	0.64
FillP	5	92.13	99.57	0.85
FillP-Sheep	5	89.75	98.72	1.11
Indigo	5	90.89	90.40	0.95
Indigo-MusesC3	5	95.07	95.38	0.37
Indigo-MusesC5	5	94.10	93.19	0.14
Indigo-MusesD	5	94.10	91.22	0.05
Indigo-MusesT	5	94.75	93.96	1.84
LEDBAT	5	11.47	83.50	0.01
PCC-Allegro	5	87.10	98.85	1.50
PCC-Expr	5	12.42	80.47	44.09
QUIC Cubic	5	71.71	100.49	0.35
SCReAM	5	0.22	81.36	0.11
Sprout	5	2.61	87.31	0.00
TaoVA-100x	5	12.59	81.88	26.52
TCP Vegas	5	71.11	84.85	0.65
Verus	5	28.73	113.74	11.32
PCC-Vivace	5	76.03	105.18	0.09
WebRTC media	5	0.05	83.85	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-26 20:15:50
End at: 2019-03-26 20:16:20
Local clock offset: -17.251 ms
Remote clock offset: -1.82 ms

# Below is generated by plot.py at 2019-03-26 22:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.43 Mbit/s
95th percentile per-packet one-way delay: 111.330 ms
Loss rate: 3.03%
-- Flow 1:
Average throughput: 91.43 Mbit/s
95th percentile per-packet one-way delay: 111.330 ms
Loss rate: 3.03%
```

Run 1: Report of TCP BBR — Data Link

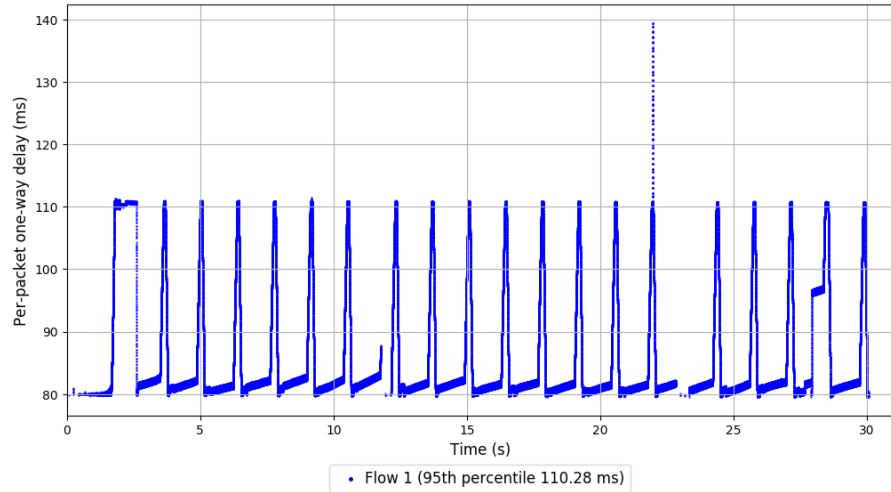
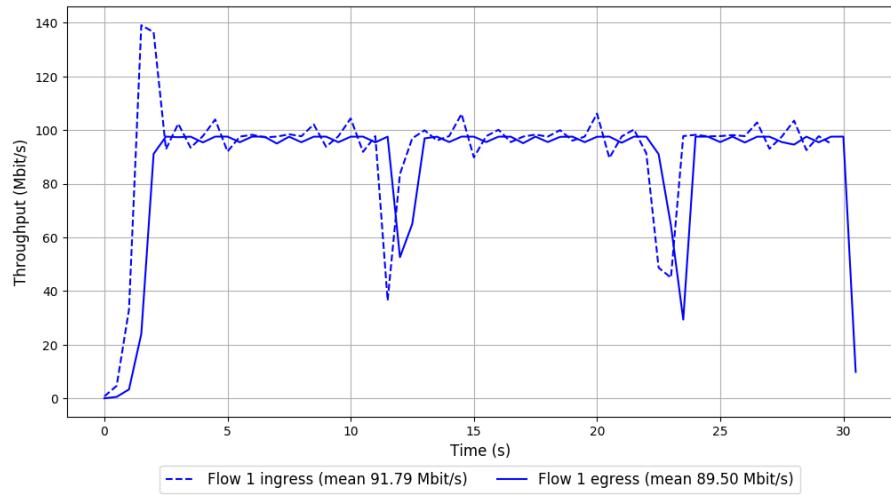


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-26 20:40:28
End at: 2019-03-26 20:40:58
Local clock offset: -12.474 ms
Remote clock offset: -1.988 ms

# Below is generated by plot.py at 2019-03-26 22:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.50 Mbit/s
95th percentile per-packet one-way delay: 110.278 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 89.50 Mbit/s
95th percentile per-packet one-way delay: 110.278 ms
Loss rate: 2.50%
```

Run 2: Report of TCP BBR — Data Link

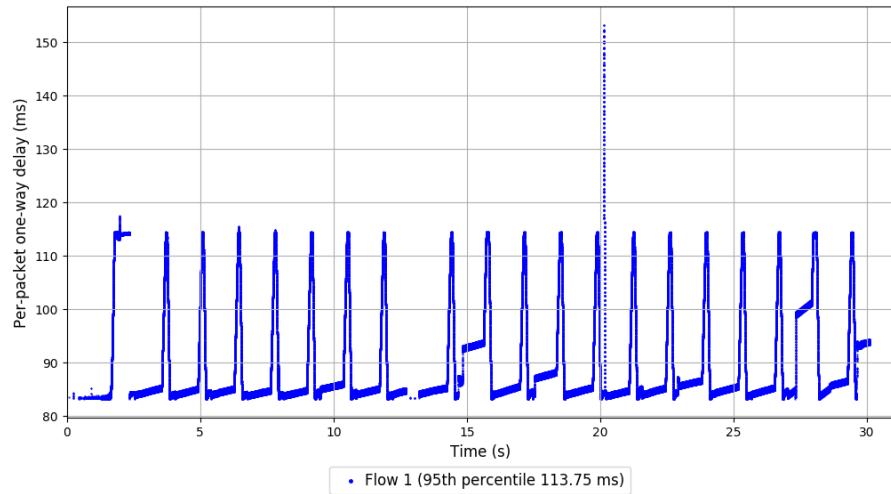
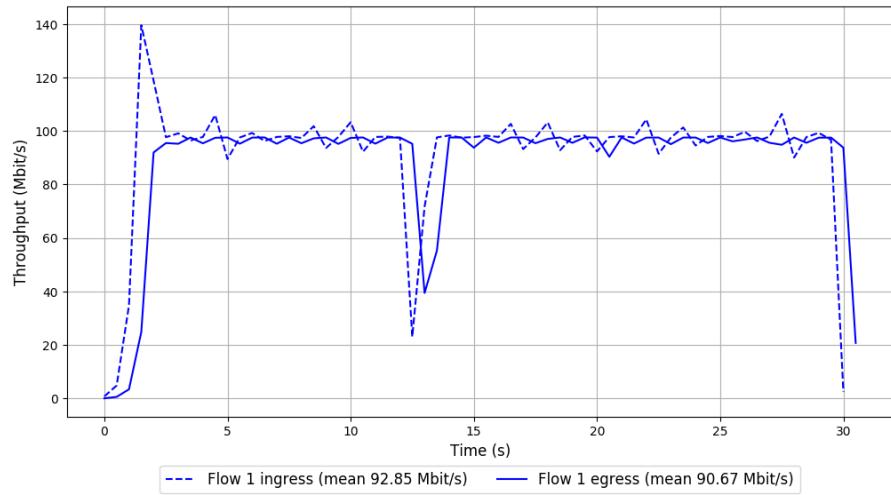


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-26 21:05:05
End at: 2019-03-26 21:05:35
Local clock offset: -10.112 ms
Remote clock offset: 4.126 ms

# Below is generated by plot.py at 2019-03-26 22:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.67 Mbit/s
95th percentile per-packet one-way delay: 113.754 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 90.67 Mbit/s
95th percentile per-packet one-way delay: 113.754 ms
Loss rate: 2.32%
```

Run 3: Report of TCP BBR — Data Link

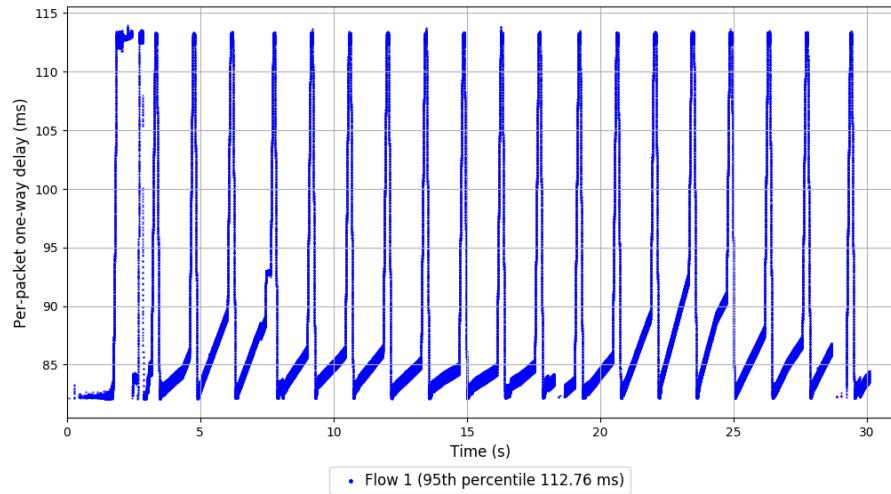
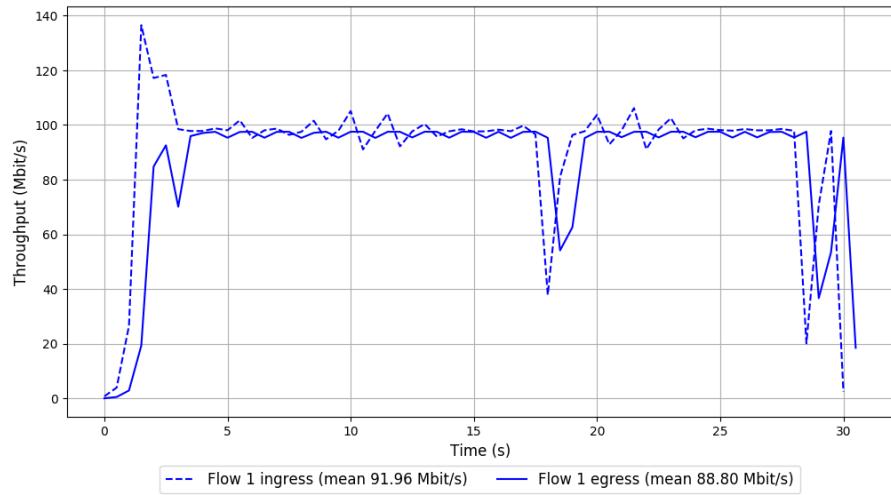


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-26 21:29:41
End at: 2019-03-26 21:30:11
Local clock offset: -5.677 ms
Remote clock offset: 1.589 ms

# Below is generated by plot.py at 2019-03-26 22:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.80 Mbit/s
95th percentile per-packet one-way delay: 112.764 ms
Loss rate: 3.43%
-- Flow 1:
Average throughput: 88.80 Mbit/s
95th percentile per-packet one-way delay: 112.764 ms
Loss rate: 3.43%
```

Run 4: Report of TCP BBR — Data Link

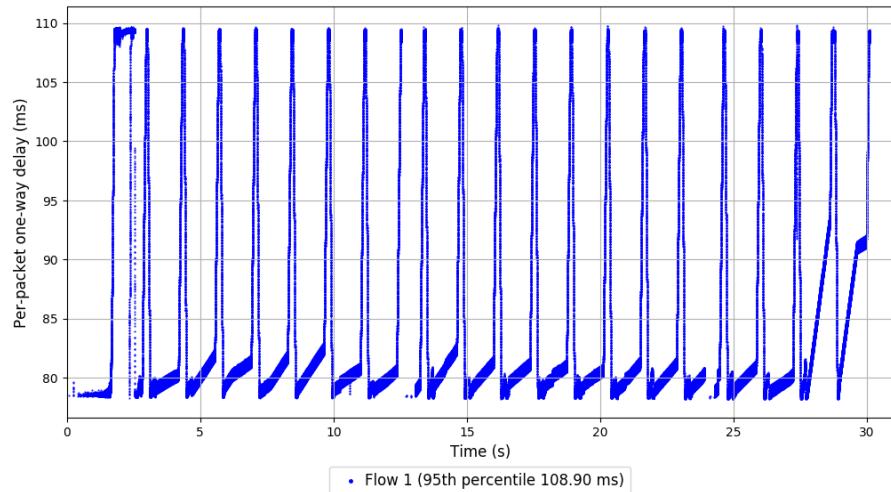
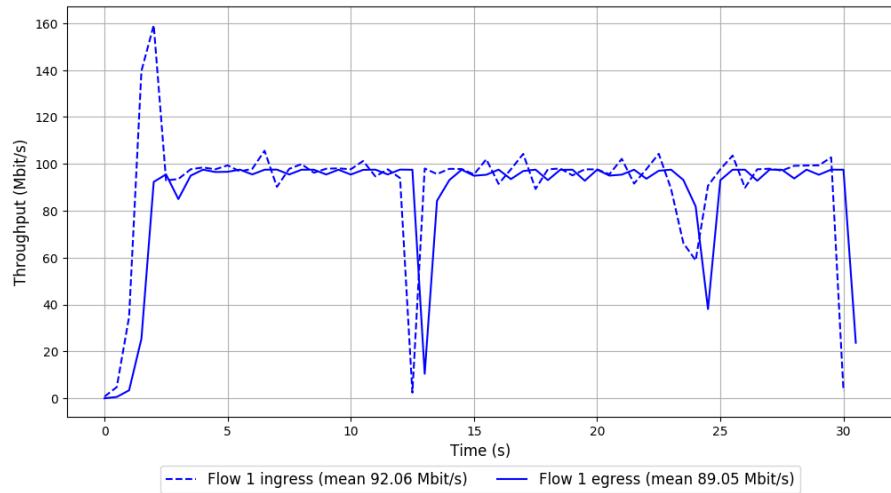


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-26 21:54:19
End at: 2019-03-26 21:54:49
Local clock offset: -5.881 ms
Remote clock offset: 1.108 ms

# Below is generated by plot.py at 2019-03-26 22:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.05 Mbit/s
95th percentile per-packet one-way delay: 108.900 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 89.05 Mbit/s
95th percentile per-packet one-way delay: 108.900 ms
Loss rate: 3.18%
```

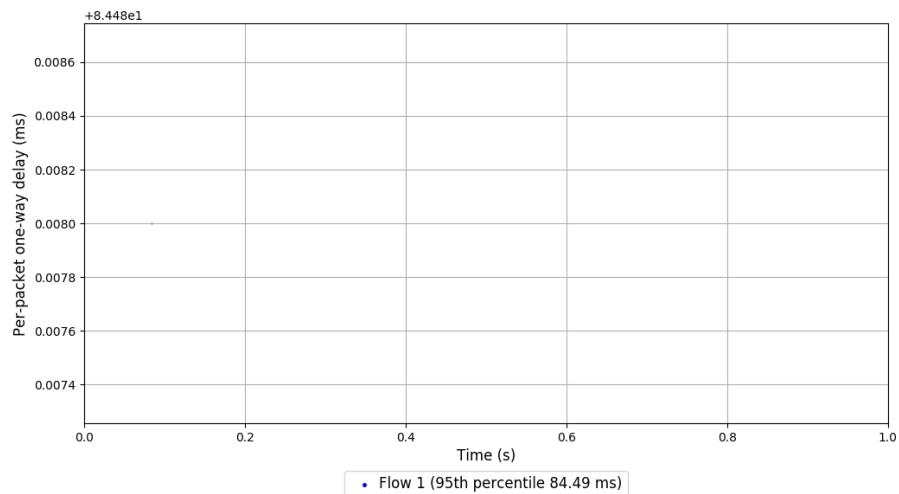
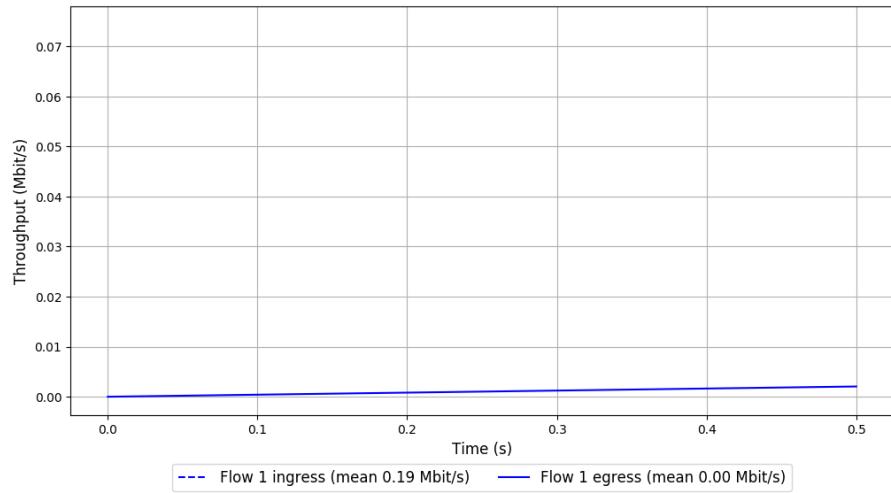
Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-03-26 20:07:39
End at: 2019-03-26 20:08:09
Local clock offset: -15.581 ms
Remote clock offset: -0.962 ms

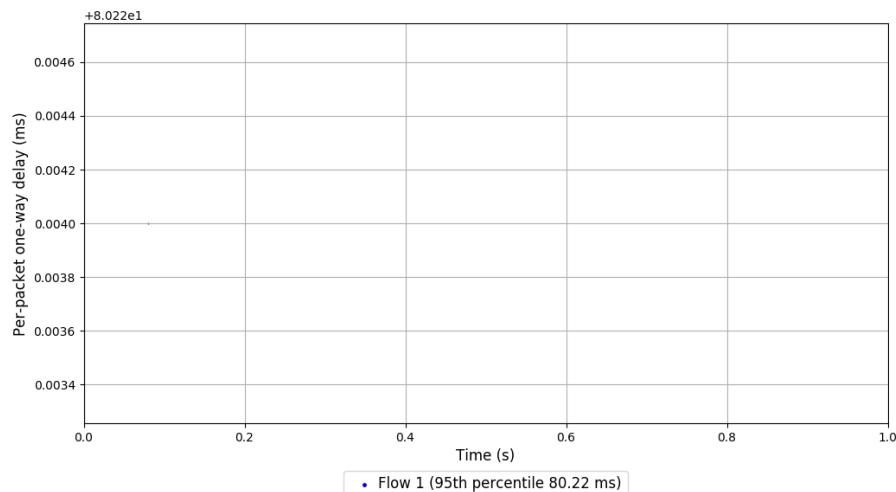
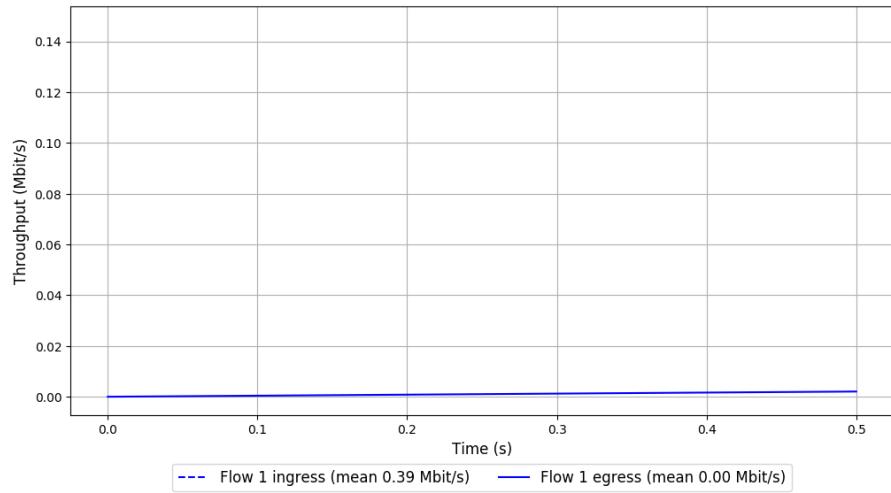
Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-03-26 20:32:17
End at: 2019-03-26 20:32:47
Local clock offset: -12.494 ms
Remote clock offset: -0.248 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

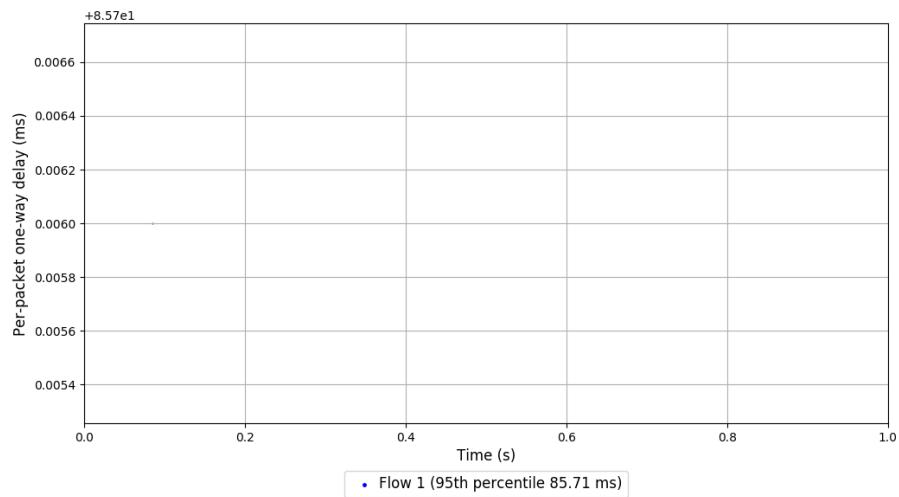
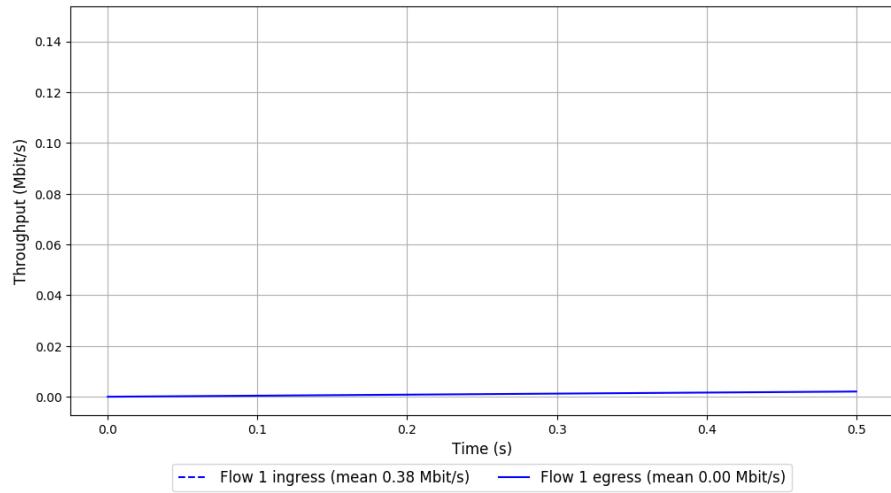
Start at: 2019-03-26 20:56:55

End at: 2019-03-26 20:57:25

Local clock offset: -9.612 ms

Remote clock offset: 5.142 ms

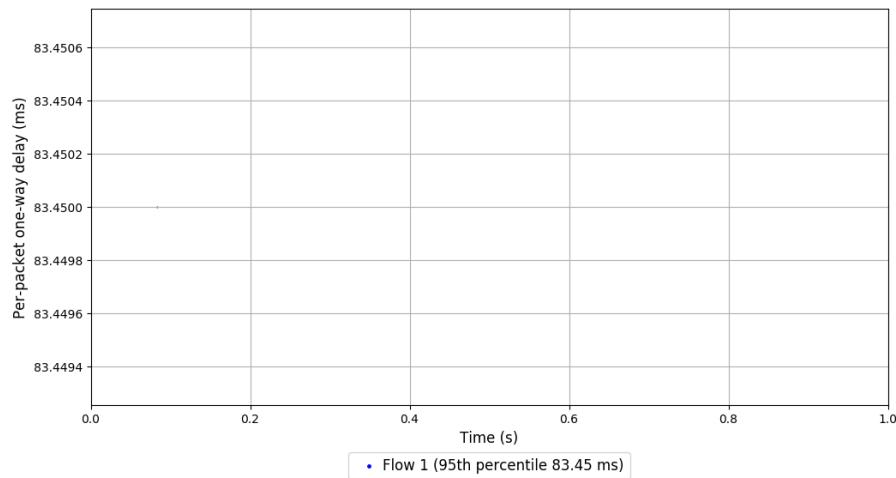
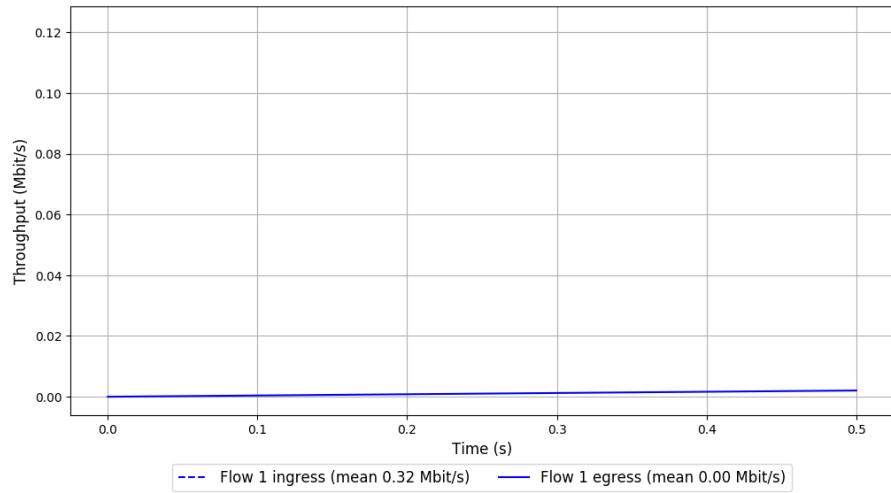
Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-03-26 21:21:31
End at: 2019-03-26 21:22:01
Local clock offset: -7.047 ms
Remote clock offset: 5.142 ms

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

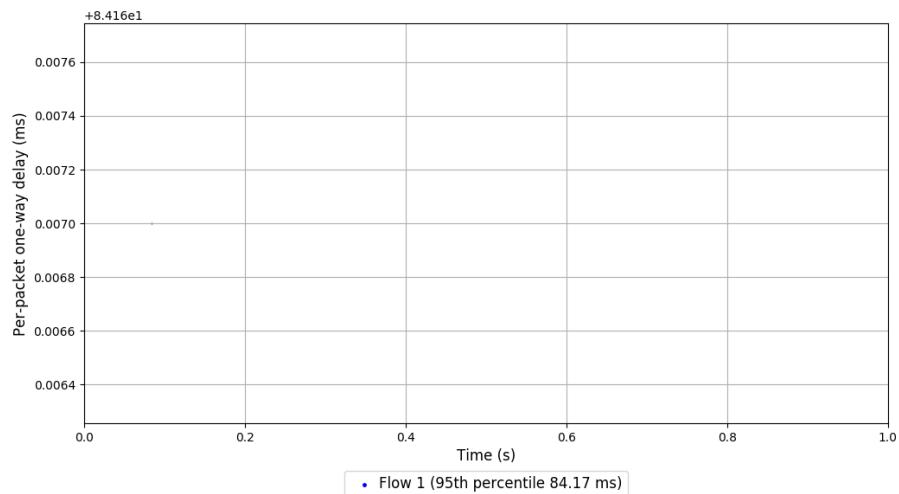
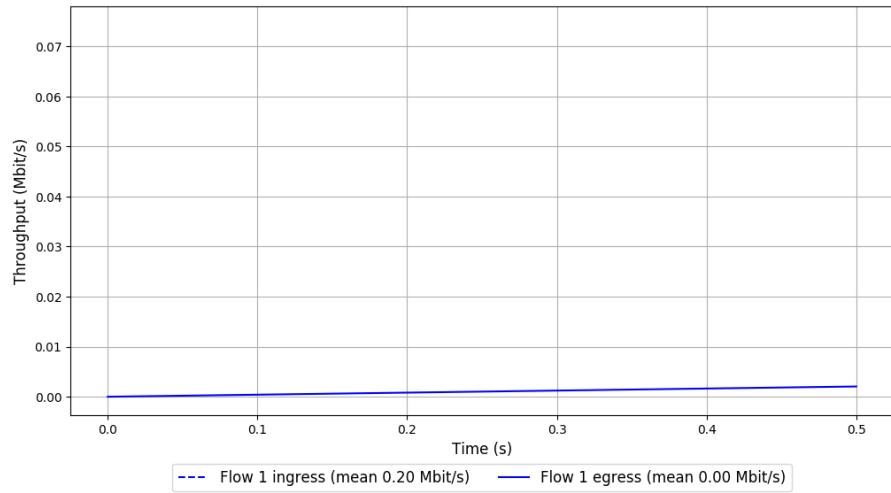
Start at: 2019-03-26 21:46:09

End at: 2019-03-26 21:46:39

Local clock offset: -4.756 ms

Remote clock offset: 5.466 ms

Run 5: Report of Copa — Data Link

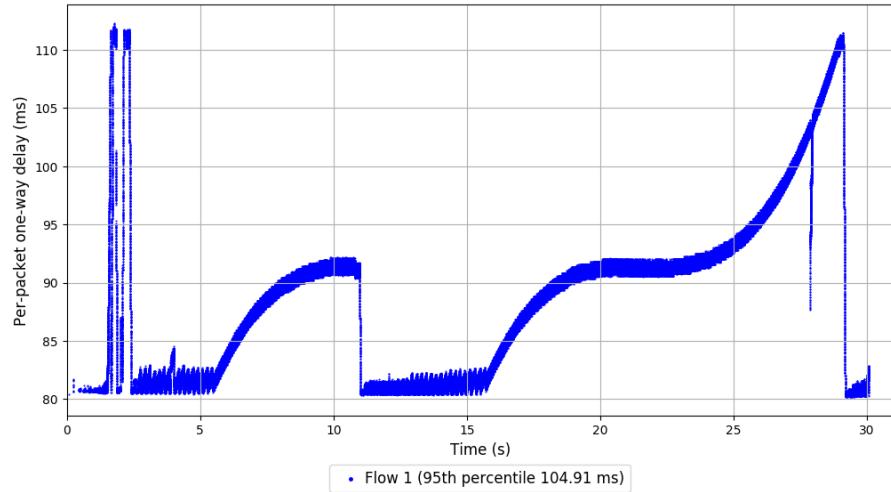
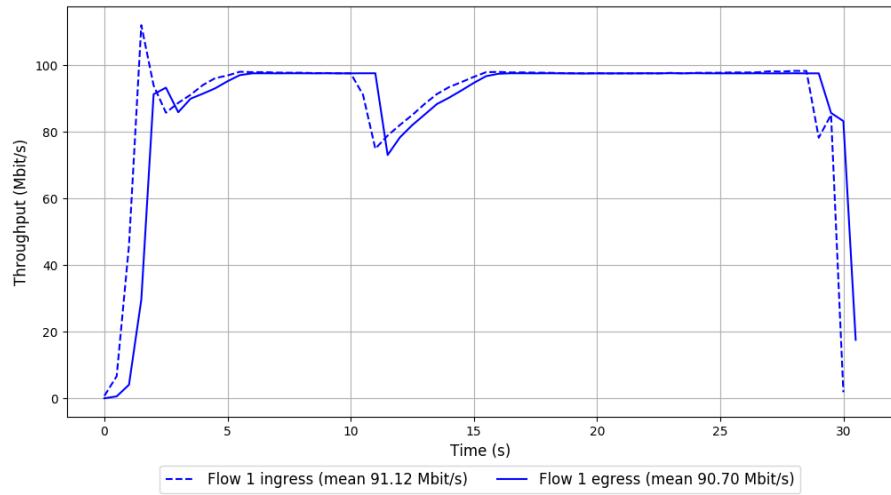


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-03-26 20:11:07
End at: 2019-03-26 20:11:37
Local clock offset: -16.535 ms
Remote clock offset: -3.14 ms

# Below is generated by plot.py at 2019-03-26 22:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.70 Mbit/s
95th percentile per-packet one-way delay: 104.912 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 90.70 Mbit/s
95th percentile per-packet one-way delay: 104.912 ms
Loss rate: 0.46%
```

Run 1: Report of TCP Cubic — Data Link

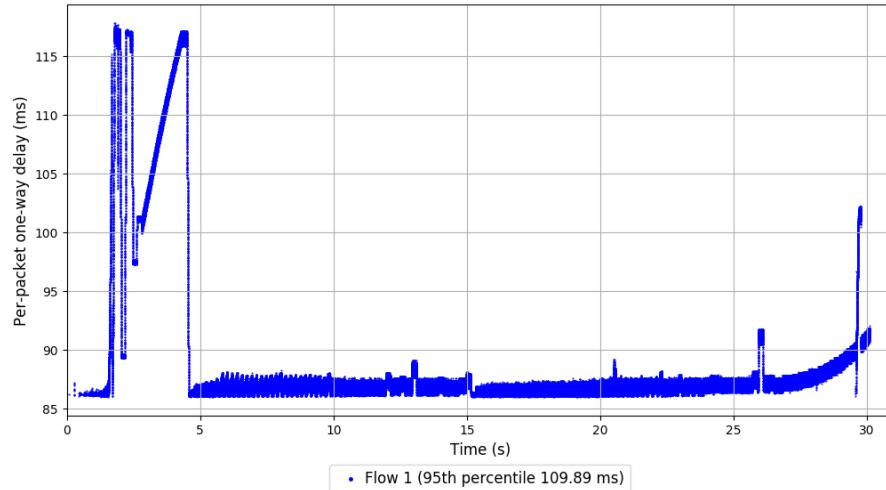
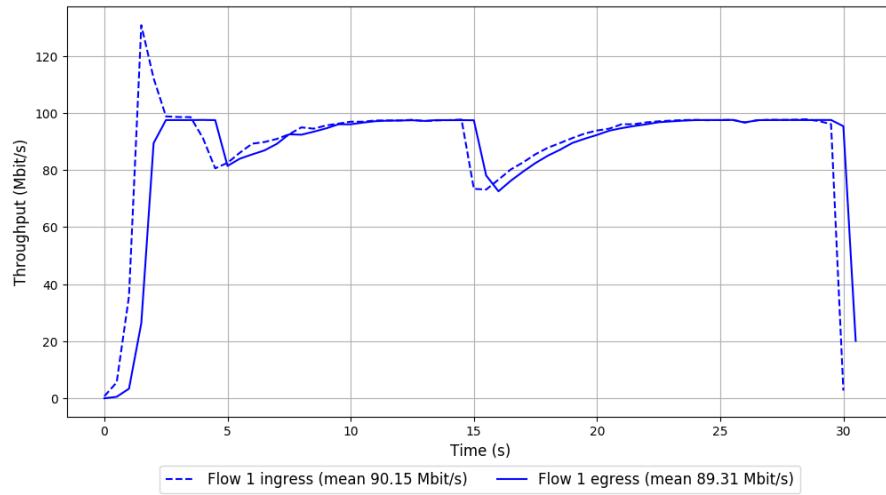


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-26 20:35:45
End at: 2019-03-26 20:36:15
Local clock offset: -12.782 ms
Remote clock offset: 4.732 ms

# Below is generated by plot.py at 2019-03-26 22:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.31 Mbit/s
95th percentile per-packet one-way delay: 109.885 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 89.31 Mbit/s
95th percentile per-packet one-way delay: 109.885 ms
Loss rate: 0.92%
```

Run 2: Report of TCP Cubic — Data Link

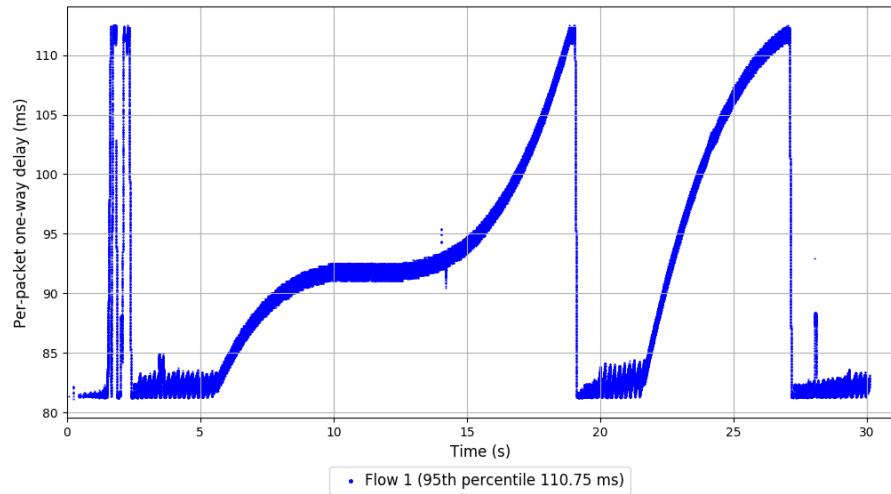
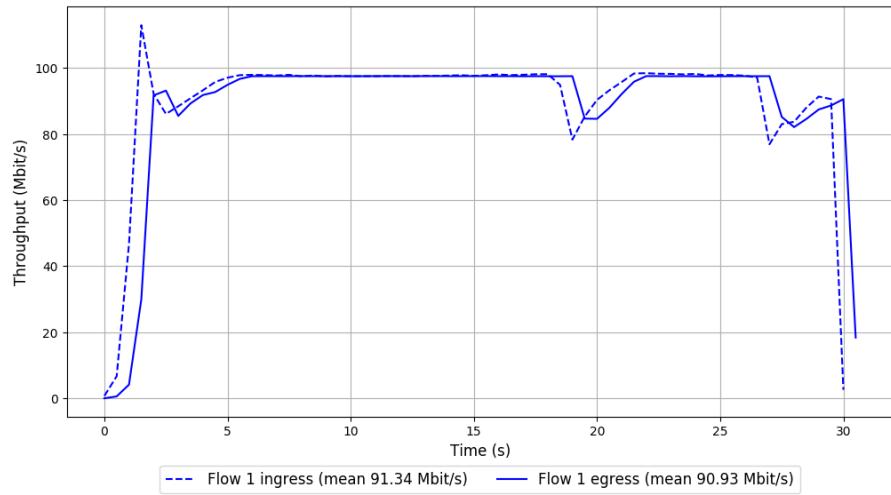


```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2019-03-26 21:00:22
End at: 2019-03-26 21:00:52
Local clock offset: -9.383 ms
Remote clock offset: 1.406 ms

# Below is generated by plot.py at 2019-03-26 22:11:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.93 Mbit/s
95th percentile per-packet one-way delay: 110.747 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 90.93 Mbit/s
95th percentile per-packet one-way delay: 110.747 ms
Loss rate: 0.46%
```

Run 3: Report of TCP Cubic — Data Link

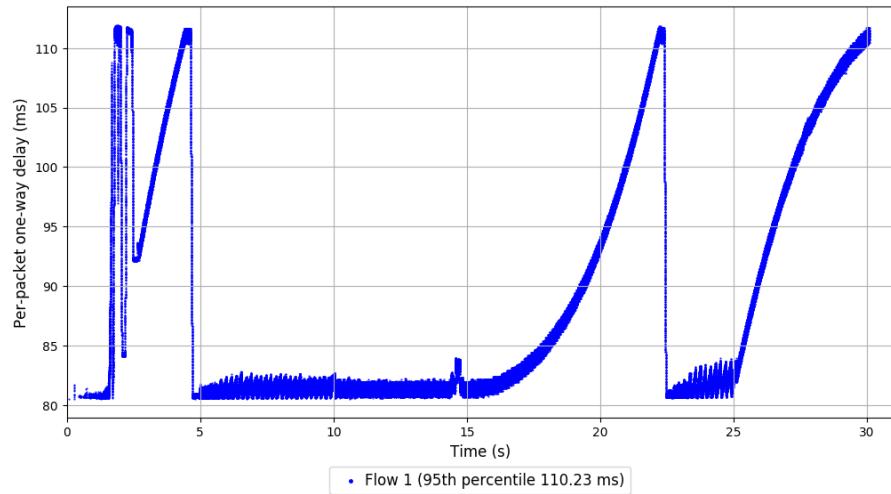
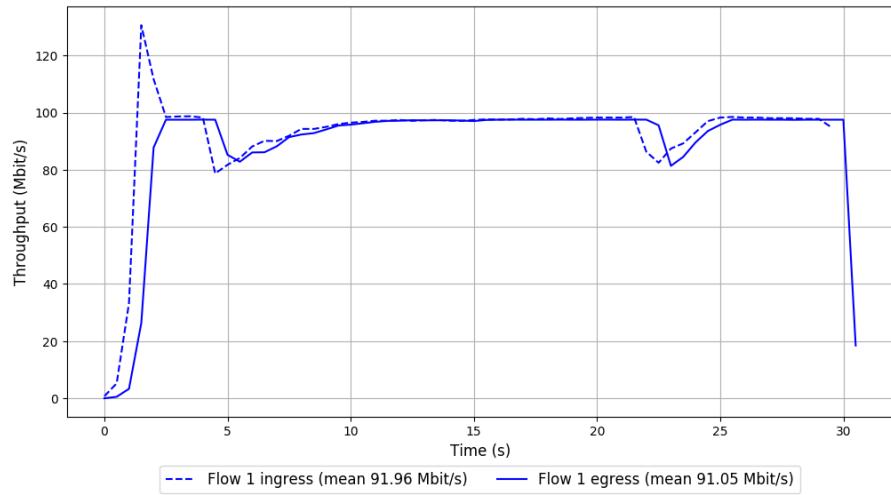


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-26 21:24:59
End at: 2019-03-26 21:25:29
Local clock offset: -5.785 ms
Remote clock offset: 0.387 ms

# Below is generated by plot.py at 2019-03-26 22:12:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.05 Mbit/s
95th percentile per-packet one-way delay: 110.233 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 91.05 Mbit/s
95th percentile per-packet one-way delay: 110.233 ms
Loss rate: 0.90%
```

Run 4: Report of TCP Cubic — Data Link

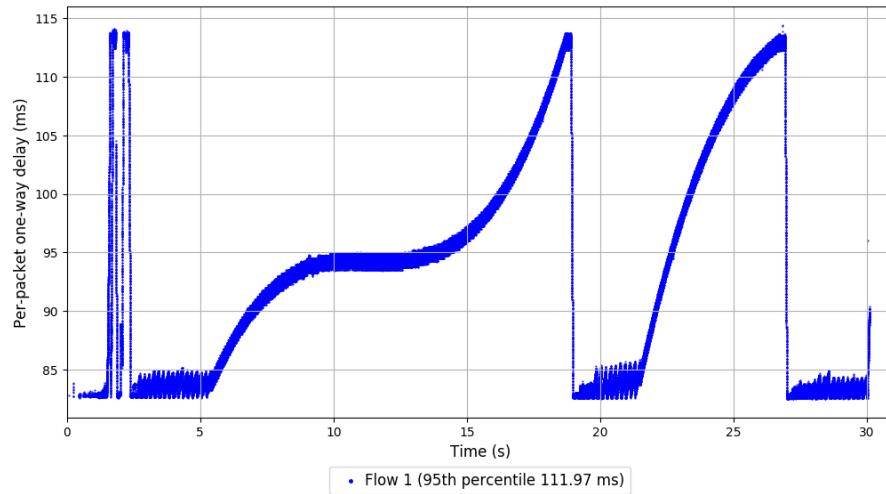
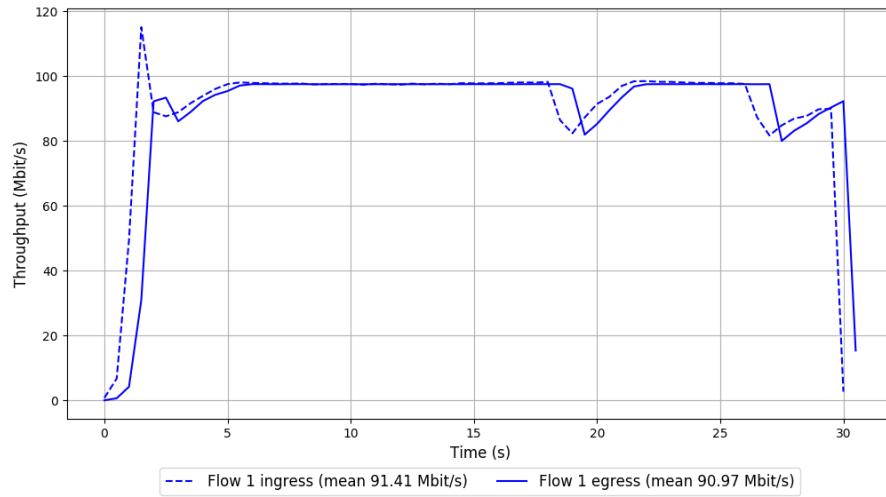


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-26 21:49:36
End at: 2019-03-26 21:50:06
Local clock offset: -5.024 ms
Remote clock offset: 4.266 ms

# Below is generated by plot.py at 2019-03-26 22:12:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.97 Mbit/s
95th percentile per-packet one-way delay: 111.970 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 90.97 Mbit/s
95th percentile per-packet one-way delay: 111.970 ms
Loss rate: 0.46%
```

Run 5: Report of TCP Cubic — Data Link

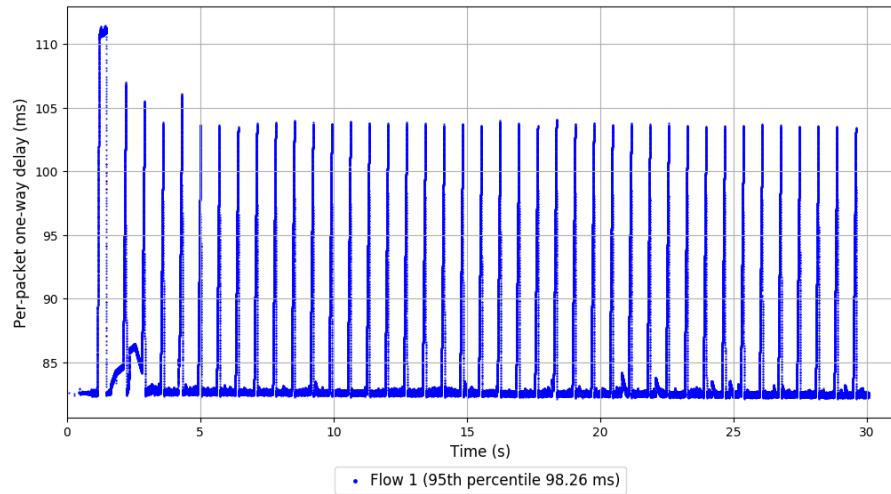
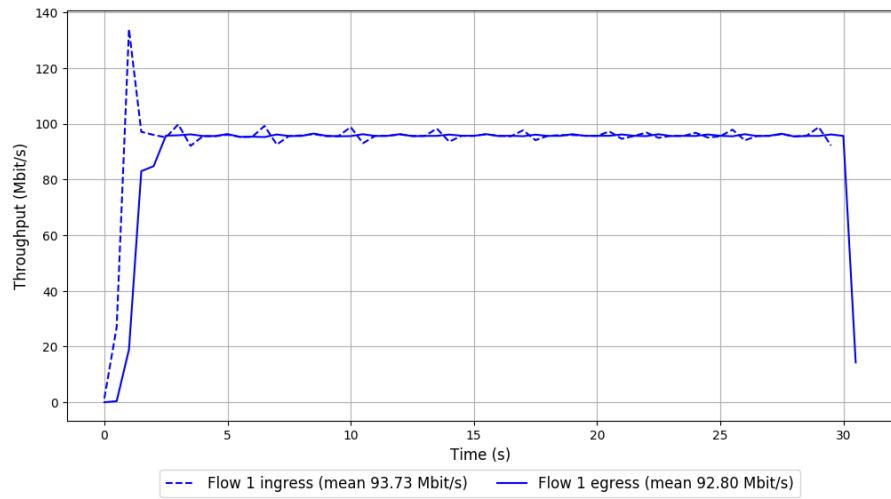


```
Run 1: Statistics of FillP

Start at: 2019-03-26 20:13:27
End at: 2019-03-26 20:13:57
Local clock offset: -17.272 ms
Remote clock offset: -2.381 ms

# Below is generated by plot.py at 2019-03-26 22:12:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.80 Mbit/s
95th percentile per-packet one-way delay: 98.259 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 92.80 Mbit/s
95th percentile per-packet one-way delay: 98.259 ms
Loss rate: 1.01%
```

Run 1: Report of FillP — Data Link

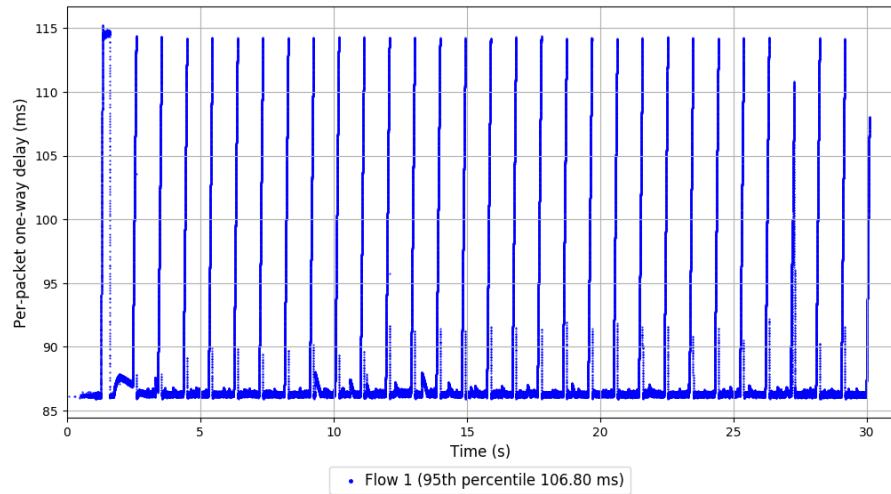
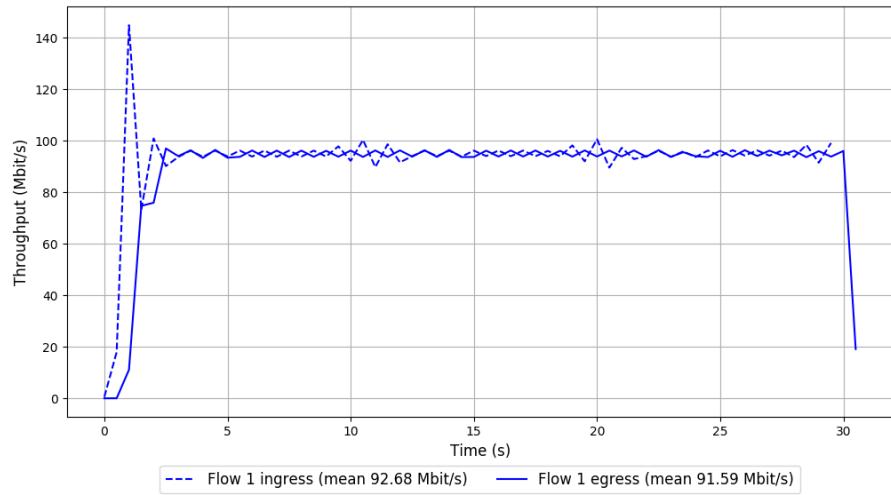


Run 2: Statistics of FillP

```
Start at: 2019-03-26 20:38:05
End at: 2019-03-26 20:38:35
Local clock offset: -13.018 ms
Remote clock offset: 3.139 ms

# Below is generated by plot.py at 2019-03-26 22:12:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.59 Mbit/s
95th percentile per-packet one-way delay: 106.800 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 91.59 Mbit/s
95th percentile per-packet one-way delay: 106.800 ms
Loss rate: 1.12%
```

Run 2: Report of FillP — Data Link

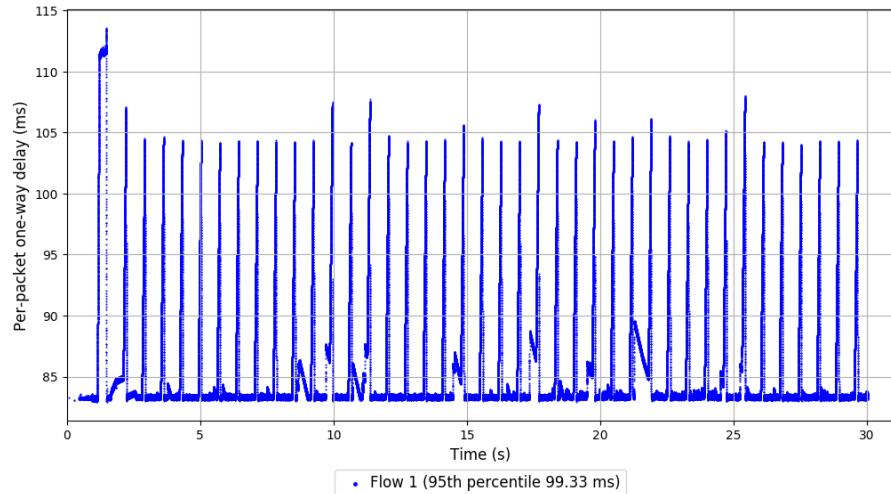
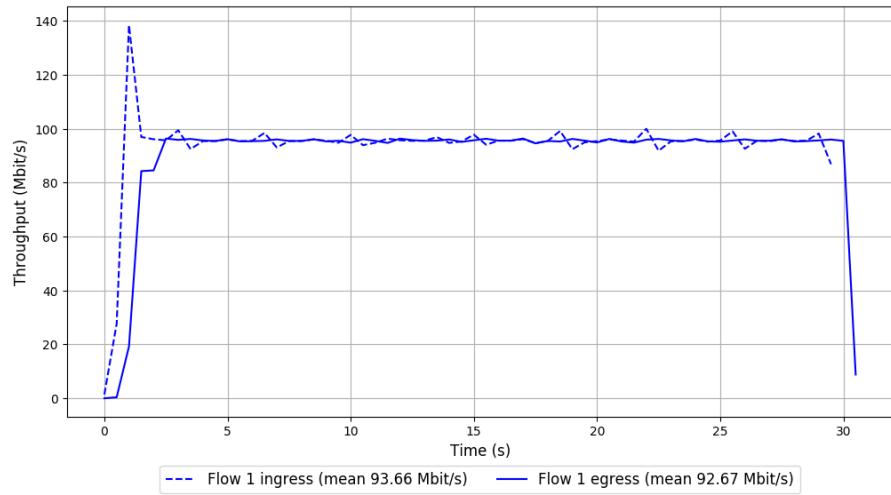


Run 3: Statistics of FillP

```
Start at: 2019-03-26 21:02:43
End at: 2019-03-26 21:03:13
Local clock offset: -9.235 ms
Remote clock offset: 1.489 ms

# Below is generated by plot.py at 2019-03-26 22:12:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.67 Mbit/s
95th percentile per-packet one-way delay: 99.326 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 92.67 Mbit/s
95th percentile per-packet one-way delay: 99.326 ms
Loss rate: 1.07%
```

Run 3: Report of FillP — Data Link

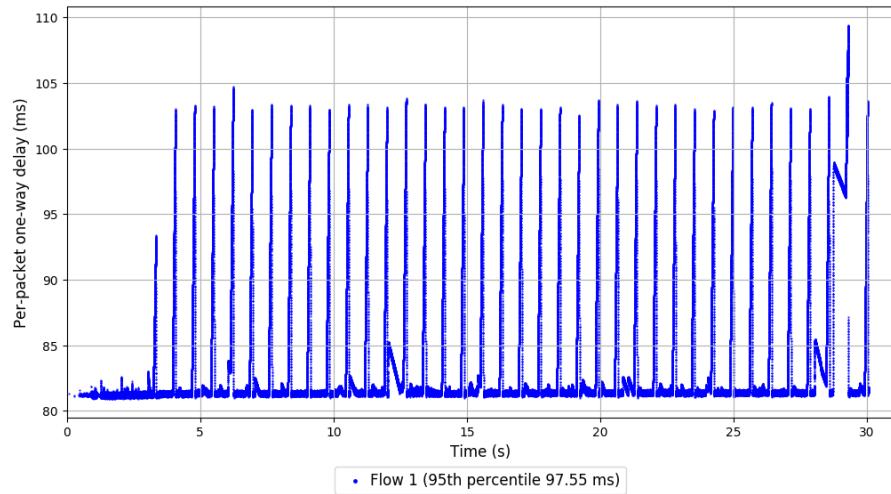
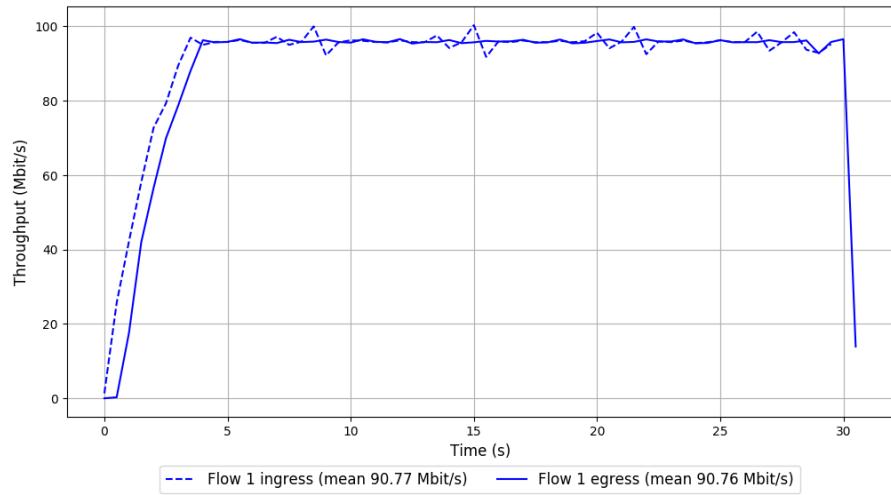


Run 4: Statistics of FillP

```
Start at: 2019-03-26 21:27:20
End at: 2019-03-26 21:27:50
Local clock offset: -6.056 ms
Remote clock offset: 0.225 ms

# Below is generated by plot.py at 2019-03-26 22:12:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 97.553 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 97.553 ms
Loss rate: 0.02%
```

Run 4: Report of FillP — Data Link

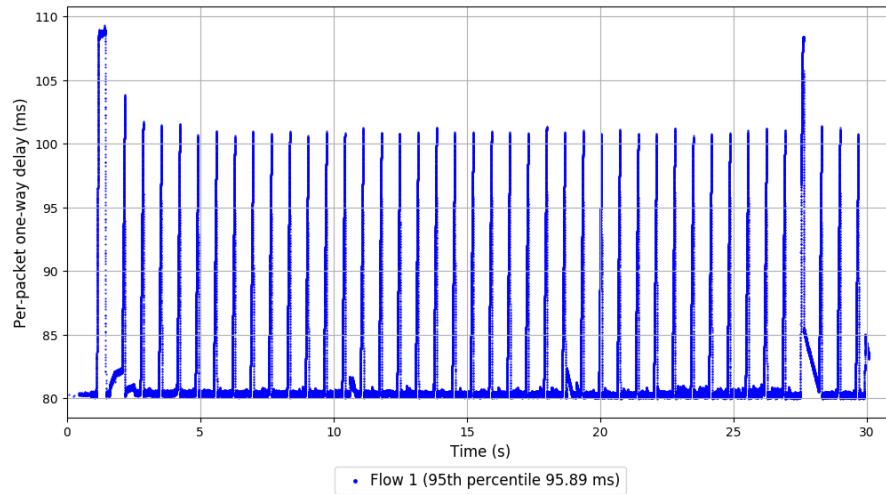
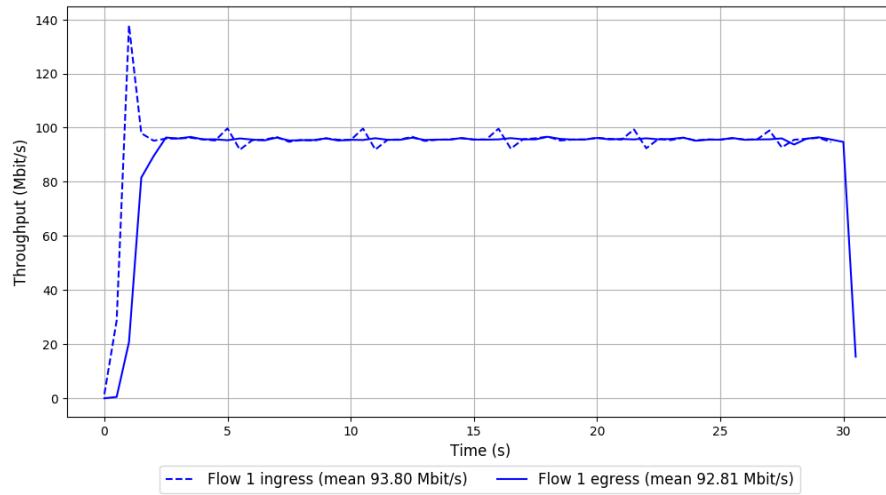


```
Run 5: Statistics of FillP
```

```
Start at: 2019-03-26 21:51:57
End at: 2019-03-26 21:52:27
Local clock offset: -6.279 ms
Remote clock offset: 1.81 ms

# Below is generated by plot.py at 2019-03-26 22:12:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.81 Mbit/s
95th percentile per-packet one-way delay: 95.895 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 92.81 Mbit/s
95th percentile per-packet one-way delay: 95.895 ms
Loss rate: 1.04%
```

Run 5: Report of FillP — Data Link

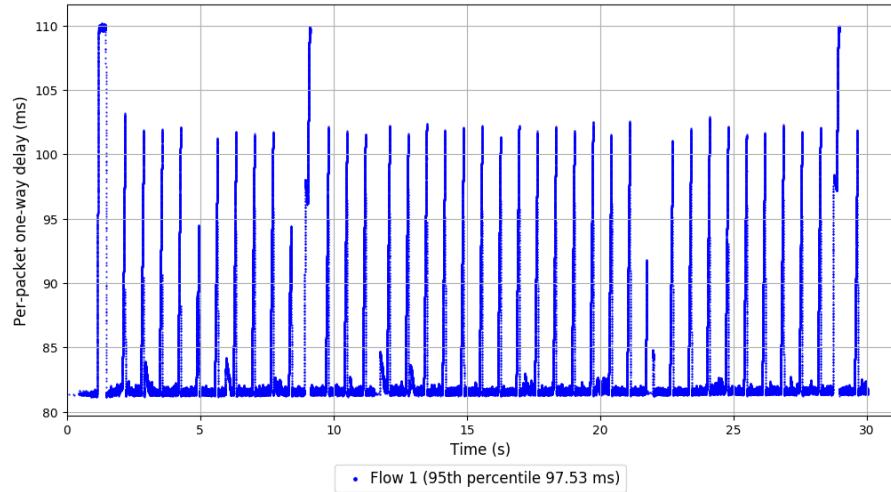
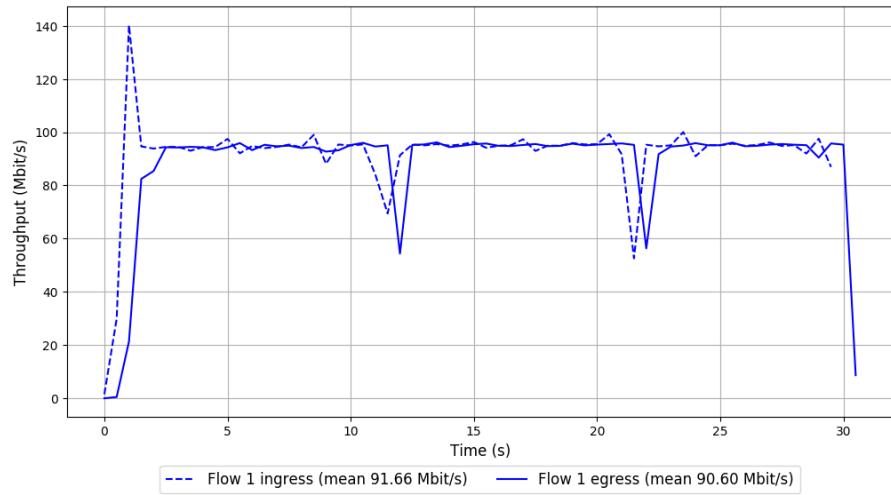


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-03-26 20:25:11
End at: 2019-03-26 20:25:41
Local clock offset: -12.384 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-03-26 22:12:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 97.532 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 97.532 ms
Loss rate: 1.16%
```

Run 1: Report of FillP-Sheep — Data Link

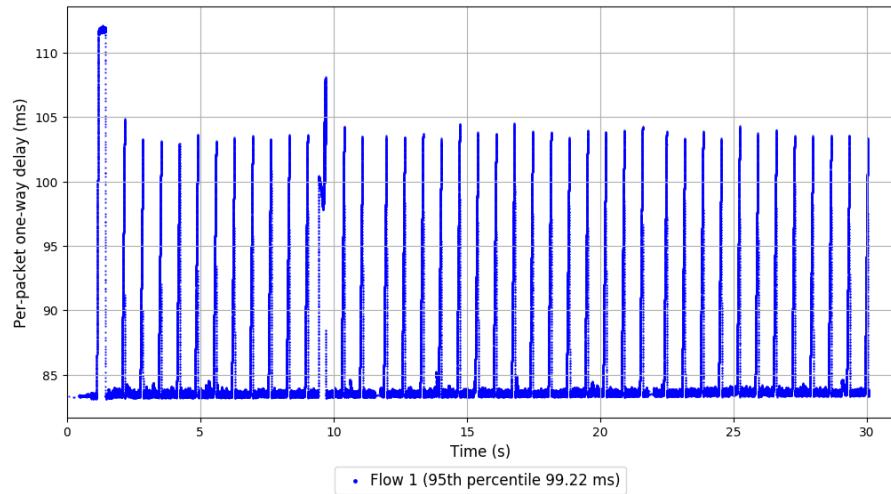
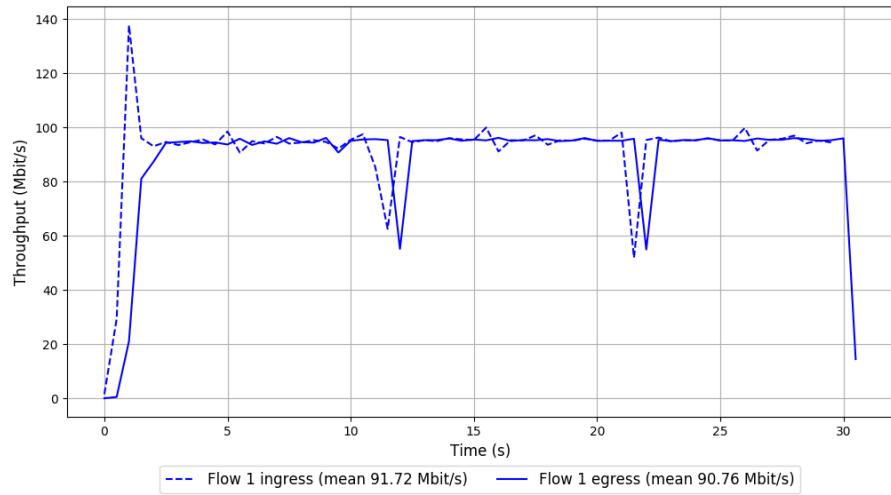


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-26 20:49:48
End at: 2019-03-26 20:50:18
Local clock offset: -11.428 ms
Remote clock offset: 4.773 ms

# Below is generated by plot.py at 2019-03-26 22:13:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 99.220 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 99.220 ms
Loss rate: 1.04%
```

Run 2: Report of FillP-Sheep — Data Link

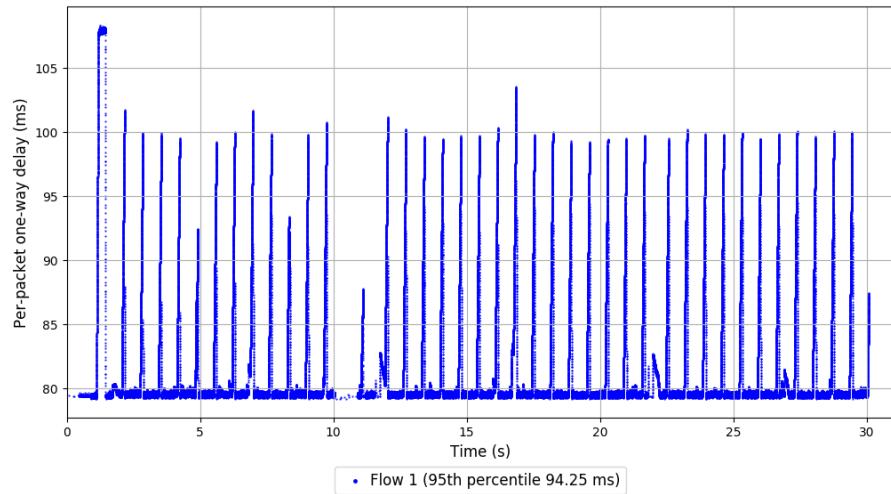
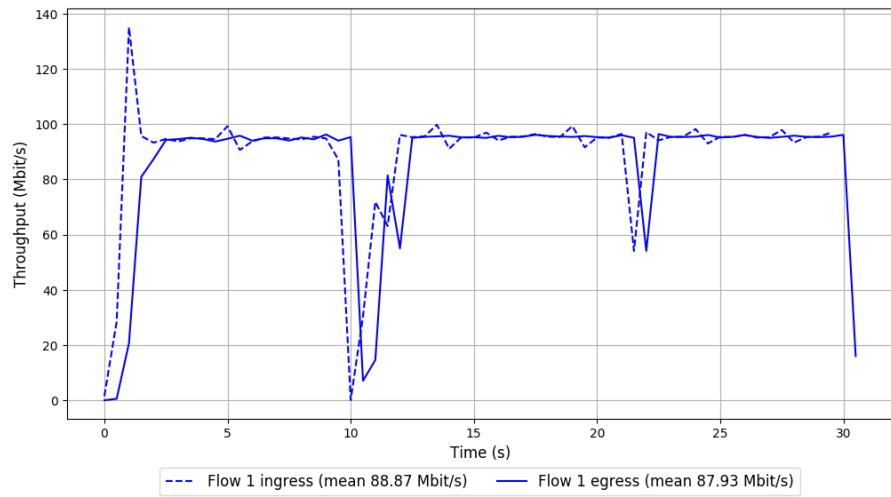


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-26 21:14:25
End at: 2019-03-26 21:14:55
Local clock offset: -9.877 ms
Remote clock offset: 0.955 ms

# Below is generated by plot.py at 2019-03-26 22:13:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.93 Mbit/s
95th percentile per-packet one-way delay: 94.251 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 87.93 Mbit/s
95th percentile per-packet one-way delay: 94.251 ms
Loss rate: 1.03%
```

Run 3: Report of FillP-Sheep — Data Link

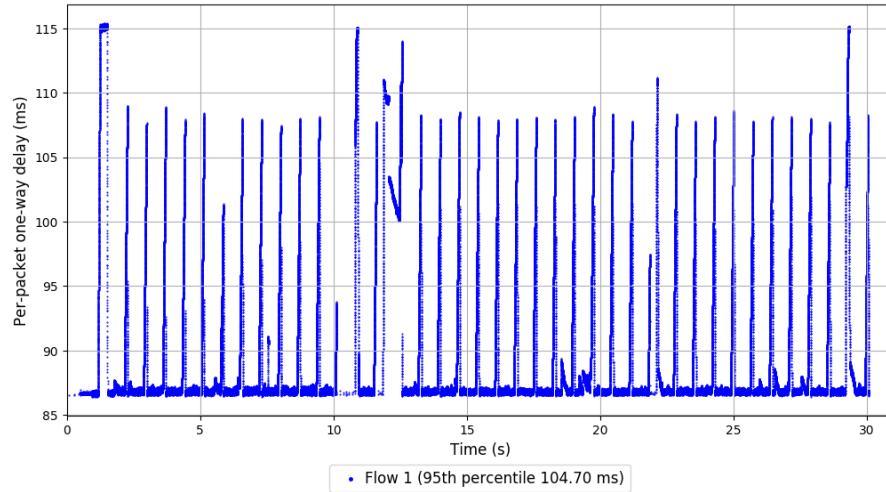
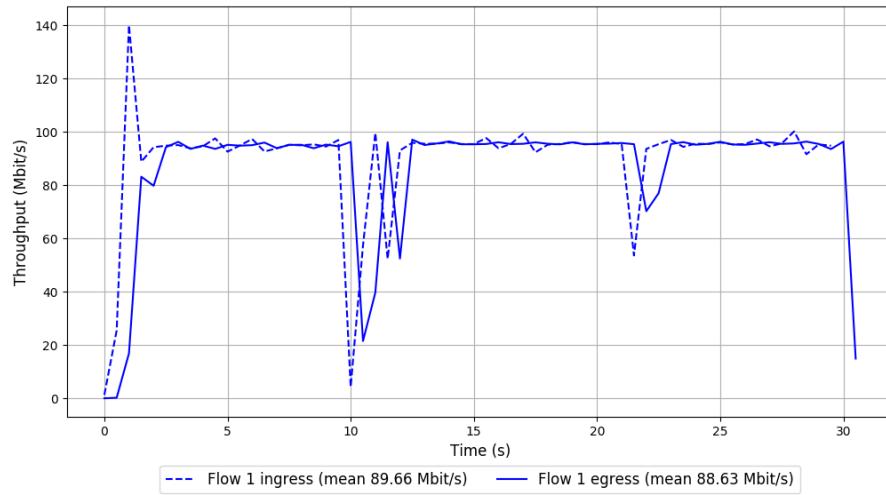


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-26 21:39:02
End at: 2019-03-26 21:39:32
Local clock offset: -4.879 ms
Remote clock offset: 6.307 ms

# Below is generated by plot.py at 2019-03-26 22:13:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.63 Mbit/s
95th percentile per-packet one-way delay: 104.705 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 88.63 Mbit/s
95th percentile per-packet one-way delay: 104.705 ms
Loss rate: 1.15%
```

Run 4: Report of FillP-Sheep — Data Link

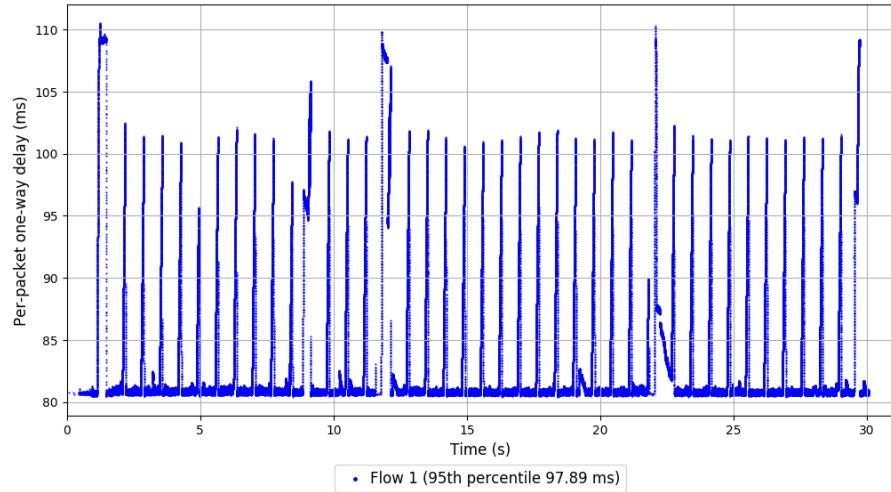
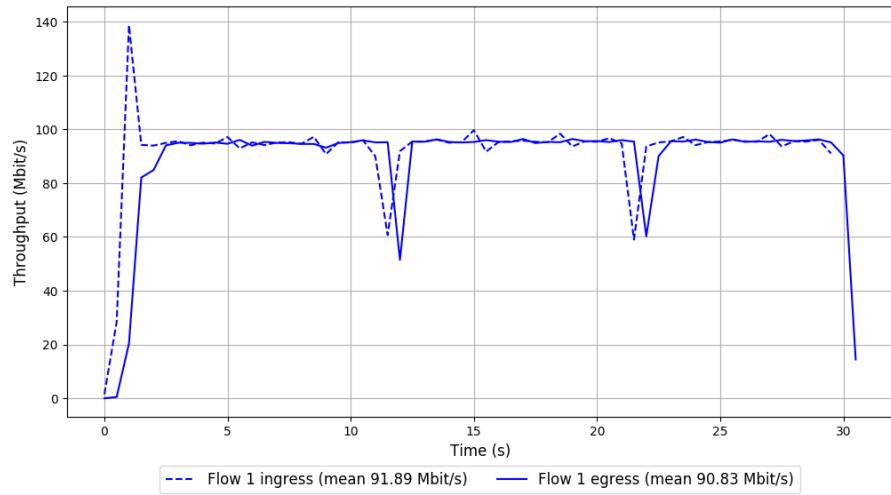


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-26 22:03:40
End at: 2019-03-26 22:04:10
Local clock offset: -7.816 ms
Remote clock offset: 1.989 ms

# Below is generated by plot.py at 2019-03-26 22:13:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.83 Mbit/s
95th percentile per-packet one-way delay: 97.885 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 90.83 Mbit/s
95th percentile per-packet one-way delay: 97.885 ms
Loss rate: 1.15%
```

Run 5: Report of FillP-Sheep — Data Link

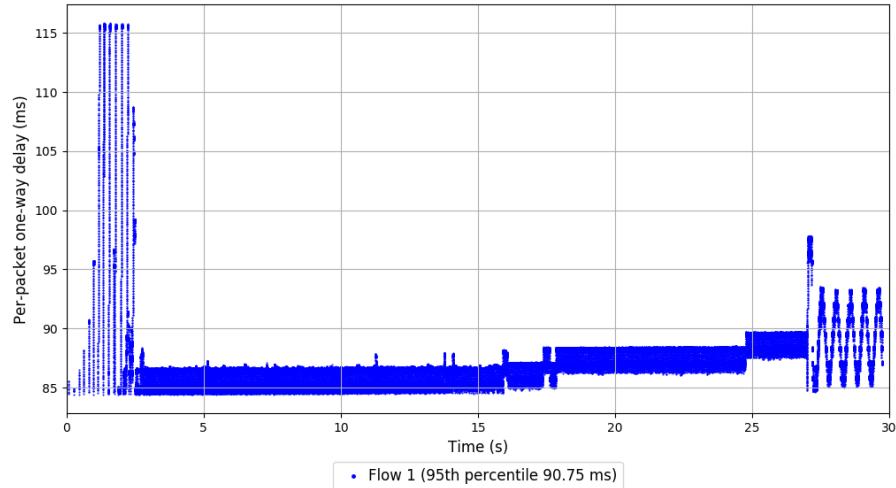
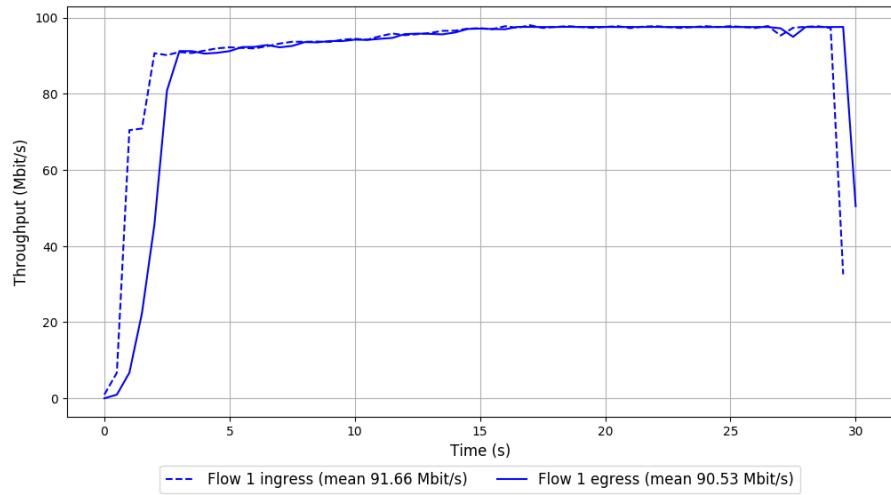


Run 1: Statistics of Indigo

```
Start at: 2019-03-26 20:19:19
End at: 2019-03-26 20:19:49
Local clock offset: -14.906 ms
Remote clock offset: 3.704 ms

# Below is generated by plot.py at 2019-03-26 22:13:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.53 Mbit/s
95th percentile per-packet one-way delay: 90.755 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 90.53 Mbit/s
95th percentile per-packet one-way delay: 90.755 ms
Loss rate: 1.23%
```

Run 1: Report of Indigo — Data Link

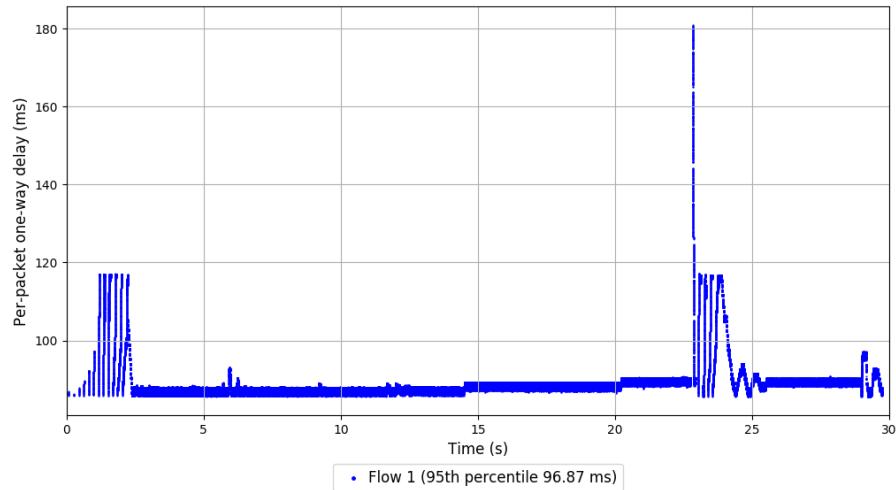
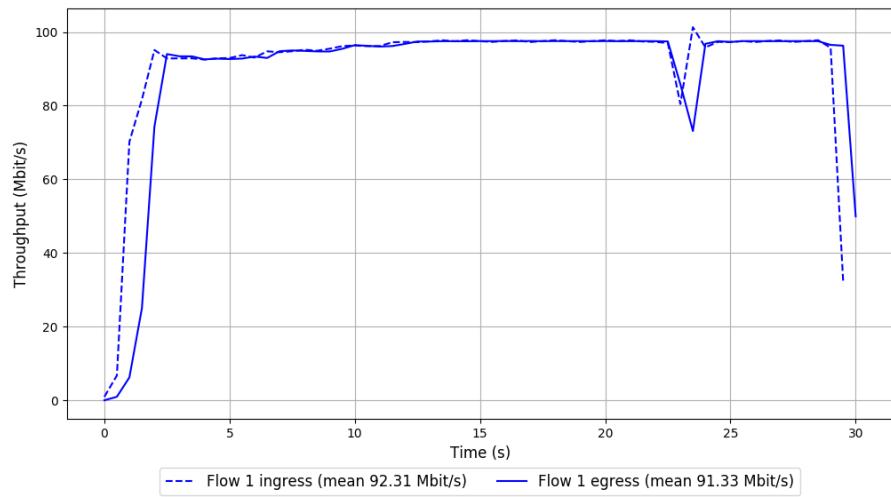


Run 2: Statistics of Indigo

```
Start at: 2019-03-26 20:43:56
End at: 2019-03-26 20:44:27
Local clock offset: -13.839 ms
Remote clock offset: 3.749 ms

# Below is generated by plot.py at 2019-03-26 22:13:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 96.866 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 96.866 ms
Loss rate: 1.07%
```

Run 2: Report of Indigo — Data Link

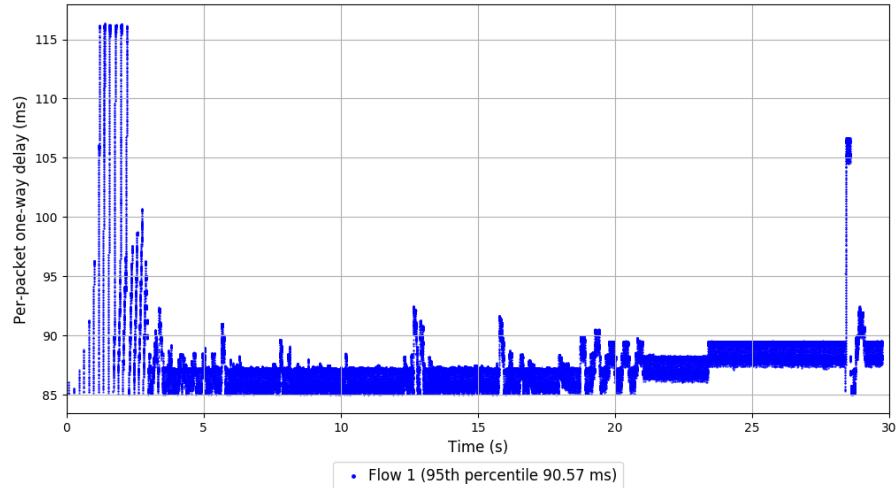
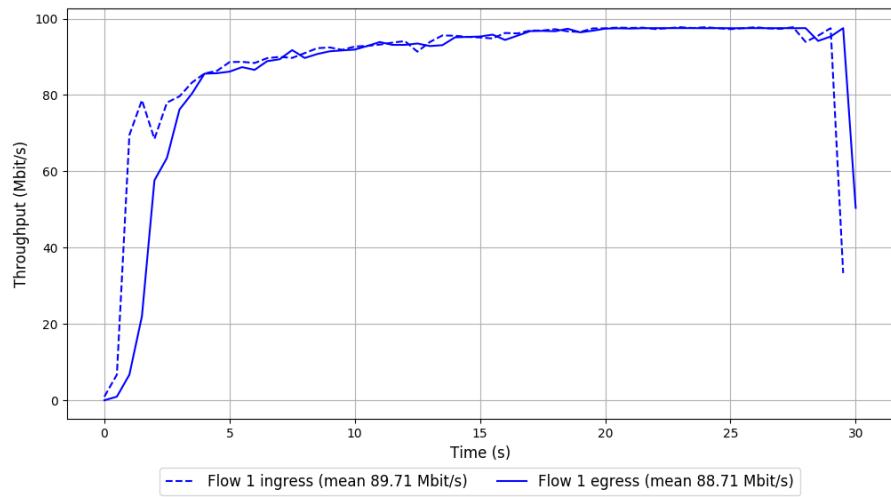


Run 3: Statistics of Indigo

```
Start at: 2019-03-26 21:08:33
End at: 2019-03-26 21:09:03
Local clock offset: -9.41 ms
Remote clock offset: 5.178 ms

# Below is generated by plot.py at 2019-03-26 22:13:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.71 Mbit/s
95th percentile per-packet one-way delay: 90.572 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 88.71 Mbit/s
95th percentile per-packet one-way delay: 90.572 ms
Loss rate: 1.11%
```

Run 3: Report of Indigo — Data Link

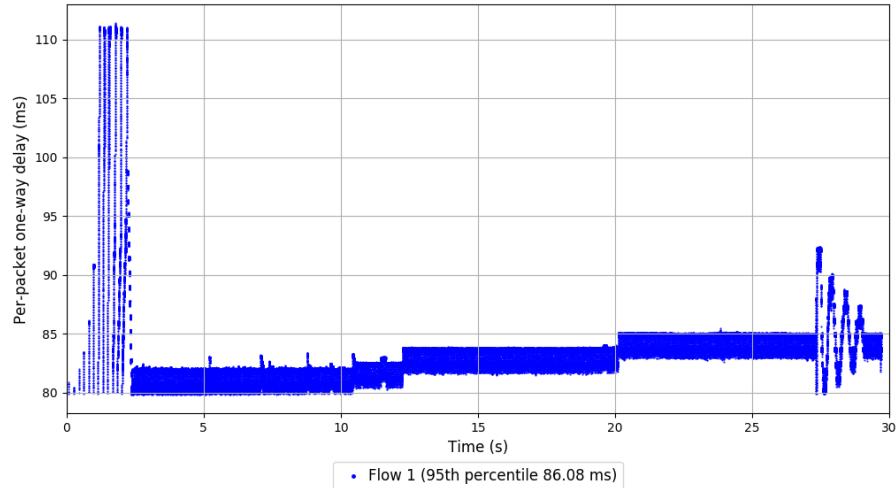
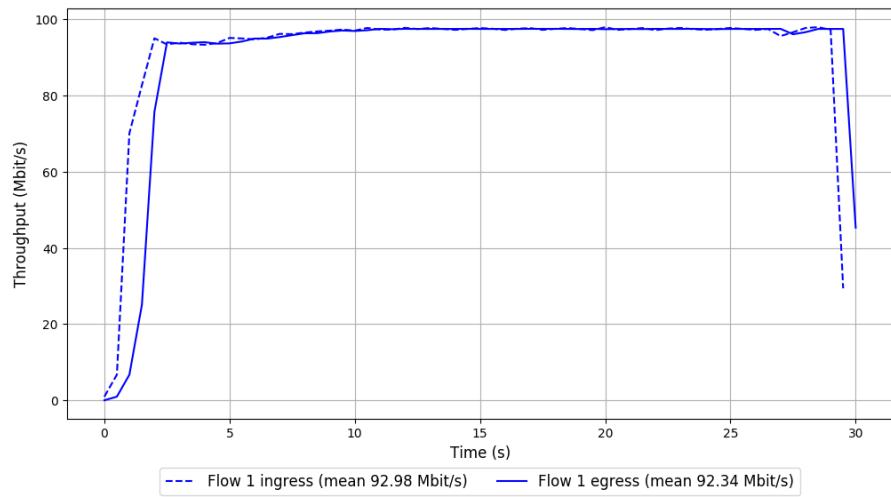


Run 4: Statistics of Indigo

```
Start at: 2019-03-26 21:33:10
End at: 2019-03-26 21:33:40
Local clock offset: -4.449 ms
Remote clock offset: 0.195 ms

# Below is generated by plot.py at 2019-03-26 22:13:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.34 Mbit/s
95th percentile per-packet one-way delay: 86.078 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 92.34 Mbit/s
95th percentile per-packet one-way delay: 86.078 ms
Loss rate: 0.68%
```

Run 4: Report of Indigo — Data Link

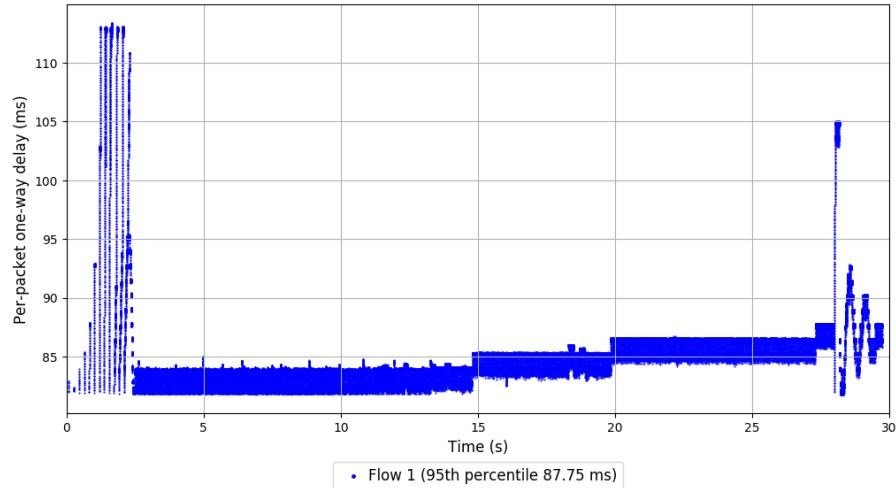
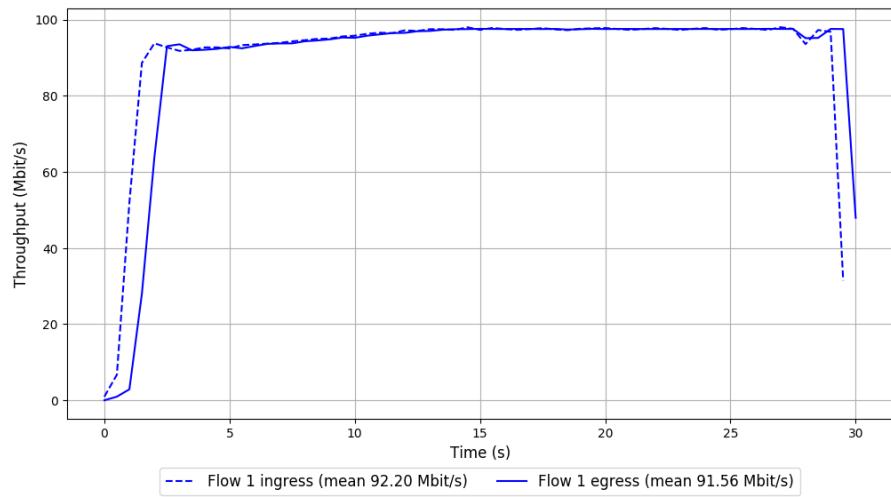


Run 5: Statistics of Indigo

```
Start at: 2019-03-26 21:57:48
End at: 2019-03-26 21:58:18
Local clock offset: -7.18 ms
Remote clock offset: 2.586 ms

# Below is generated by plot.py at 2019-03-26 22:14:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.56 Mbit/s
95th percentile per-packet one-way delay: 87.748 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 91.56 Mbit/s
95th percentile per-packet one-way delay: 87.748 ms
Loss rate: 0.68%
```

Run 5: Report of Indigo — Data Link

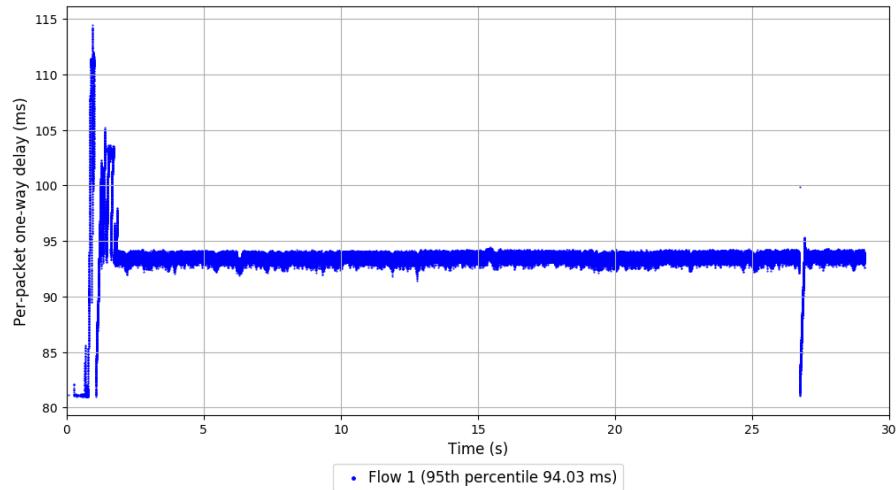
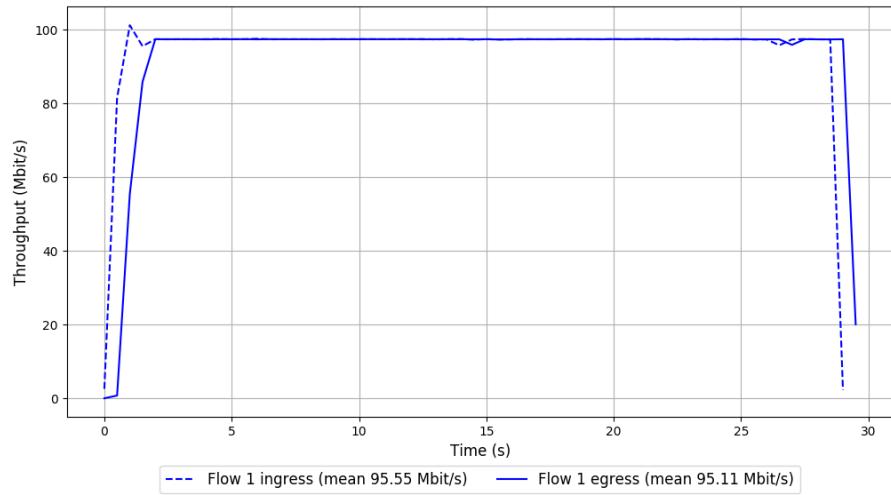


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-03-26 20:29:53
End at: 2019-03-26 20:30:23
Local clock offset: -11.752 ms
Remote clock offset: -0.37 ms

# Below is generated by plot.py at 2019-03-26 22:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 94.033 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 94.033 ms
Loss rate: 0.43%
```

Run 1: Report of Indigo-MusesC3 — Data Link

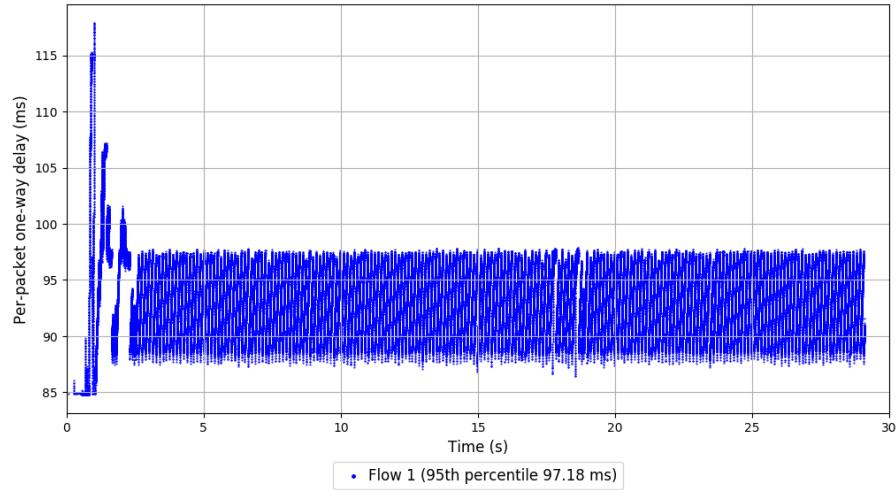
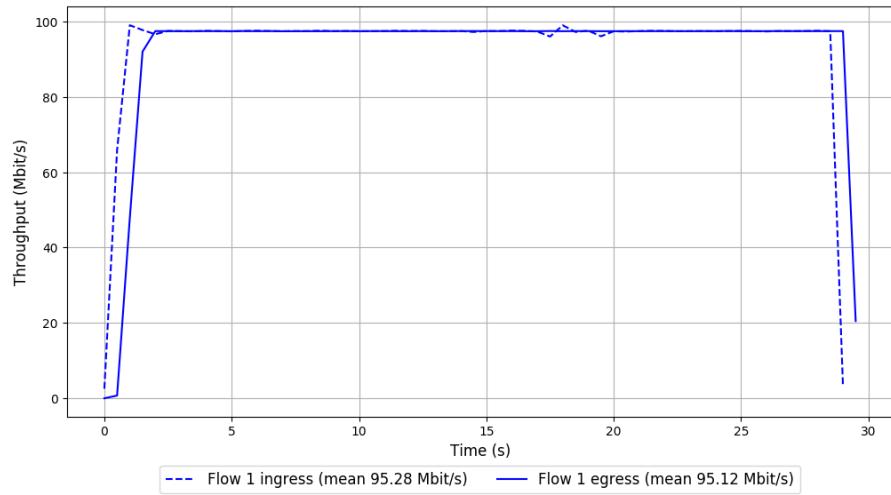


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-26 20:54:31
End at: 2019-03-26 20:55:01
Local clock offset: -9.985 ms
Remote clock offset: 4.921 ms

# Below is generated by plot.py at 2019-03-26 22:14:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.12 Mbit/s
95th percentile per-packet one-way delay: 97.180 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 95.12 Mbit/s
95th percentile per-packet one-way delay: 97.180 ms
Loss rate: 0.15%
```

Run 2: Report of Indigo-MusesC3 — Data Link

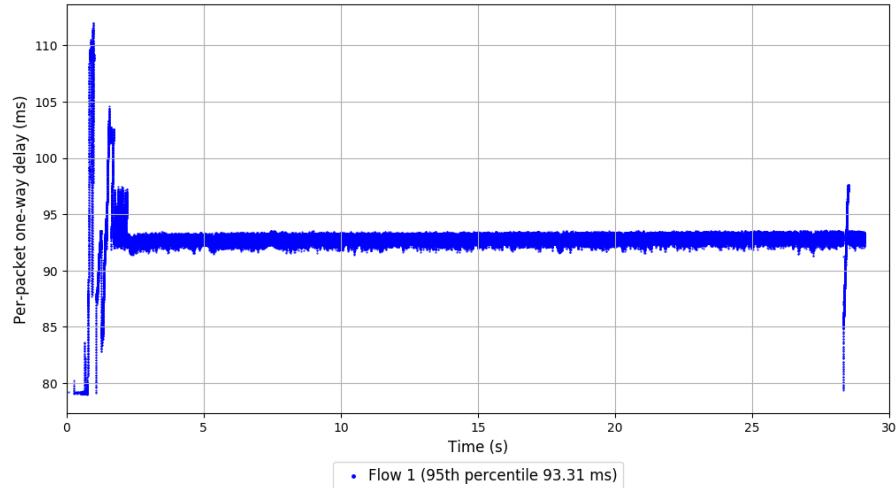
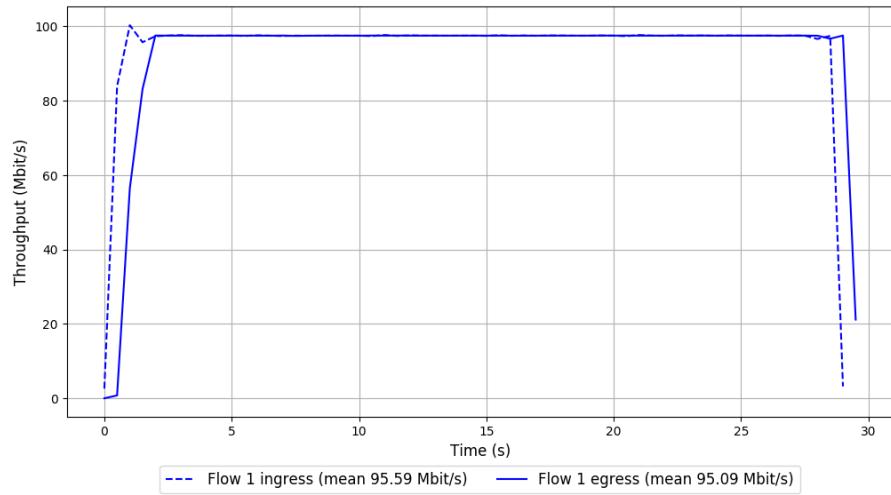


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-26 21:19:07
End at: 2019-03-26 21:19:38
Local clock offset: -8.138 ms
Remote clock offset: 0.211 ms

# Below is generated by plot.py at 2019-03-26 22:14:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 93.311 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 93.311 ms
Loss rate: 0.48%
```

Run 3: Report of Indigo-MusesC3 — Data Link

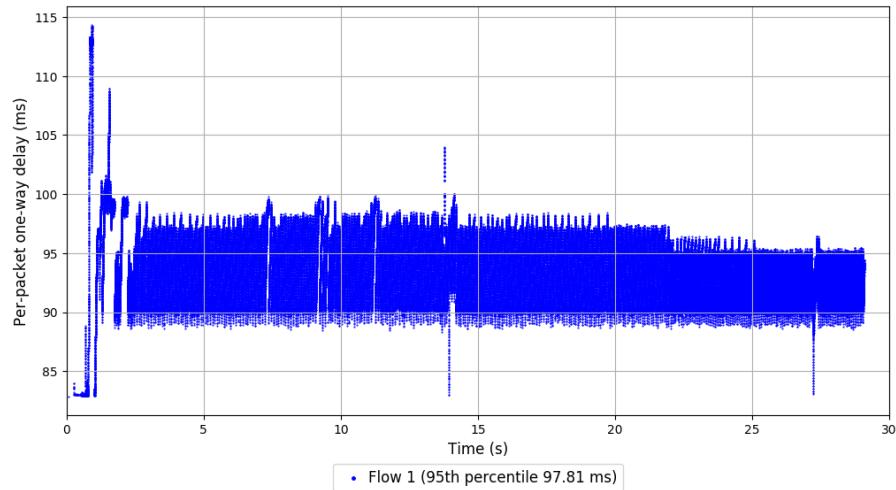
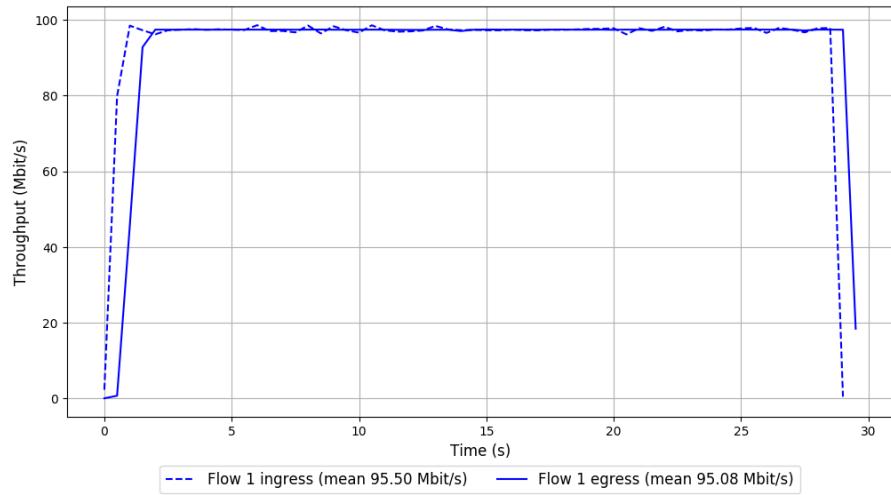


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-26 21:43:45
End at: 2019-03-26 21:44:15
Local clock offset: -4.007 ms
Remote clock offset: 4.285 ms

# Below is generated by plot.py at 2019-03-26 22:14:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 97.815 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 97.815 ms
Loss rate: 0.41%
```

Run 4: Report of Indigo-MusesC3 — Data Link

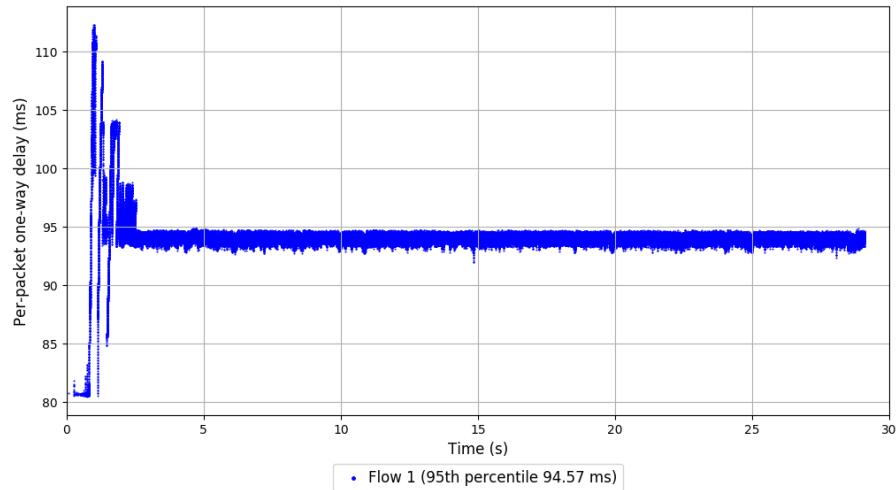
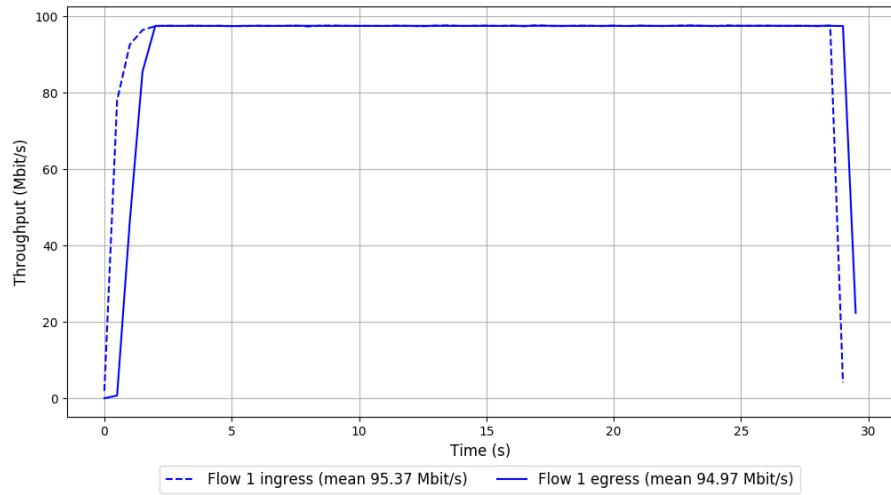


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-26 22:08:28
End at: 2019-03-26 22:08:58
Local clock offset: -8.209 ms
Remote clock offset: 3.445 ms

# Below is generated by plot.py at 2019-03-26 22:14:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.97 Mbit/s
95th percentile per-packet one-way delay: 94.572 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 94.97 Mbit/s
95th percentile per-packet one-way delay: 94.572 ms
Loss rate: 0.37%
```

Run 5: Report of Indigo-MusesC3 — Data Link

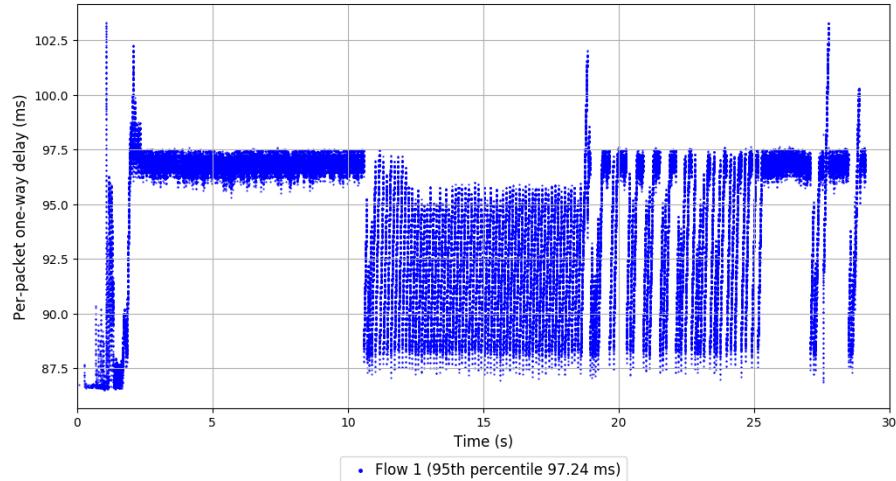
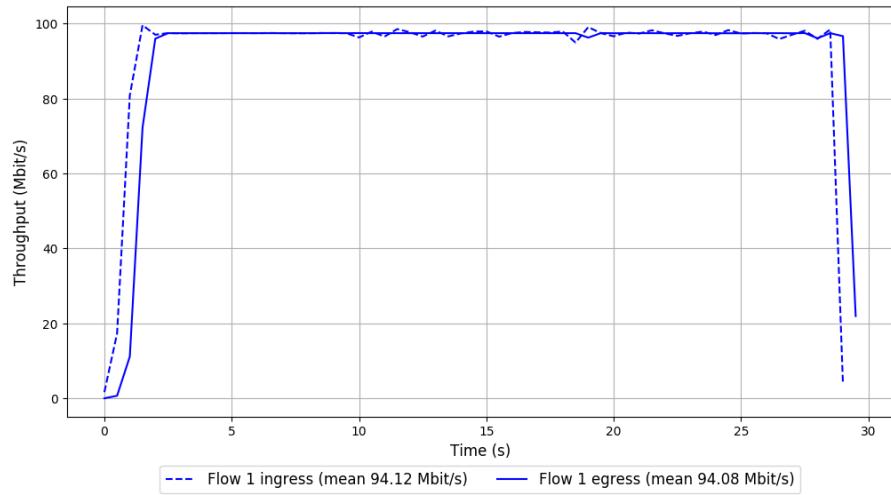


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-03-26 20:27:34
End at: 2019-03-26 20:28:04
Local clock offset: -12.71 ms
Remote clock offset: 2.522 ms

# Below is generated by plot.py at 2019-03-26 22:14:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 97.237 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 97.237 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesC5 — Data Link

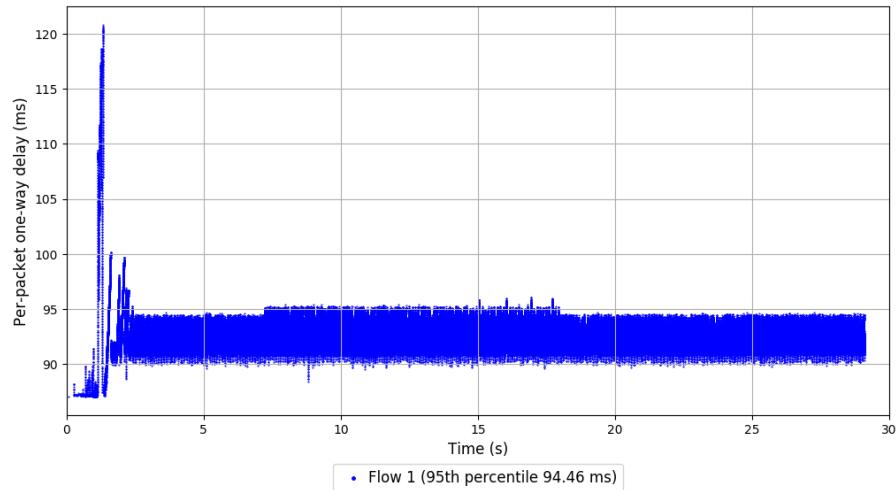
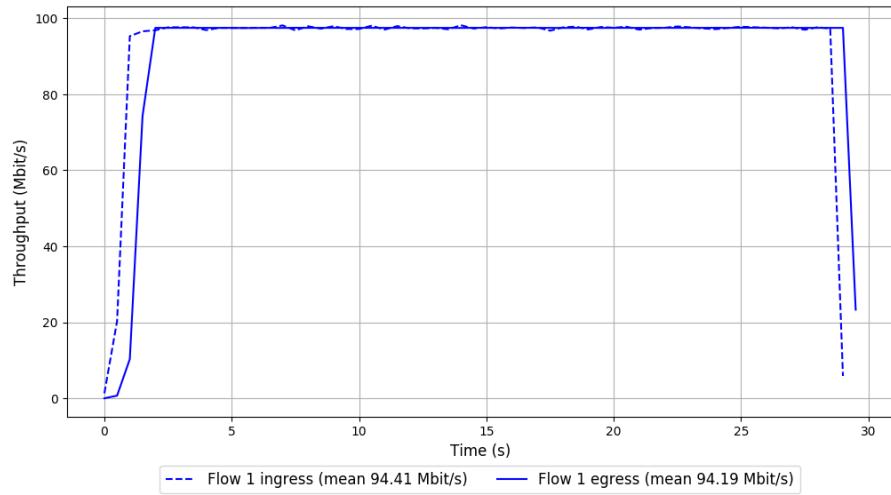


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-26 20:52:12
End at: 2019-03-26 20:52:42
Local clock offset: -11.387 ms
Remote clock offset: 6.18 ms

# Below is generated by plot.py at 2019-03-26 22:14:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.19 Mbit/s
95th percentile per-packet one-way delay: 94.458 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 94.19 Mbit/s
95th percentile per-packet one-way delay: 94.458 ms
Loss rate: 0.23%
```

Run 2: Report of Indigo-MusesC5 — Data Link

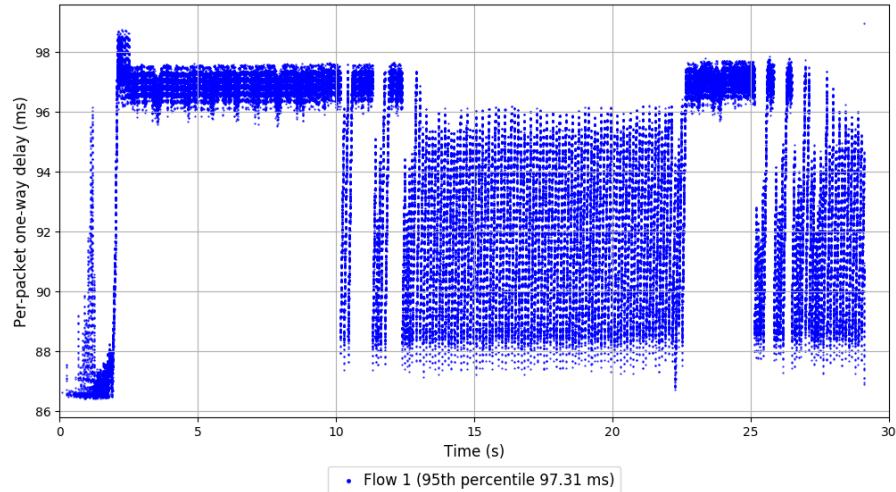
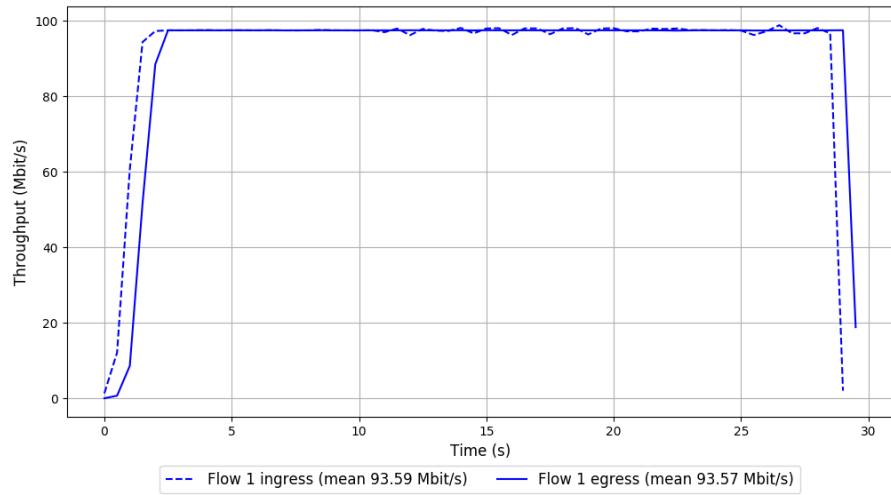


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-26 21:16:48
End at: 2019-03-26 21:17:18
Local clock offset: -9.594 ms
Remote clock offset: 6.073 ms

# Below is generated by plot.py at 2019-03-26 22:15:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.57 Mbit/s
95th percentile per-packet one-way delay: 97.307 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.57 Mbit/s
95th percentile per-packet one-way delay: 97.307 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesC5 — Data Link

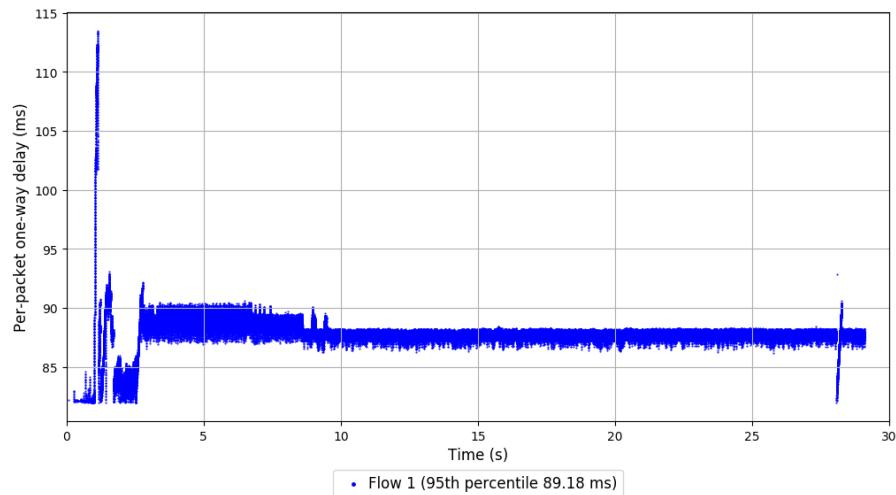
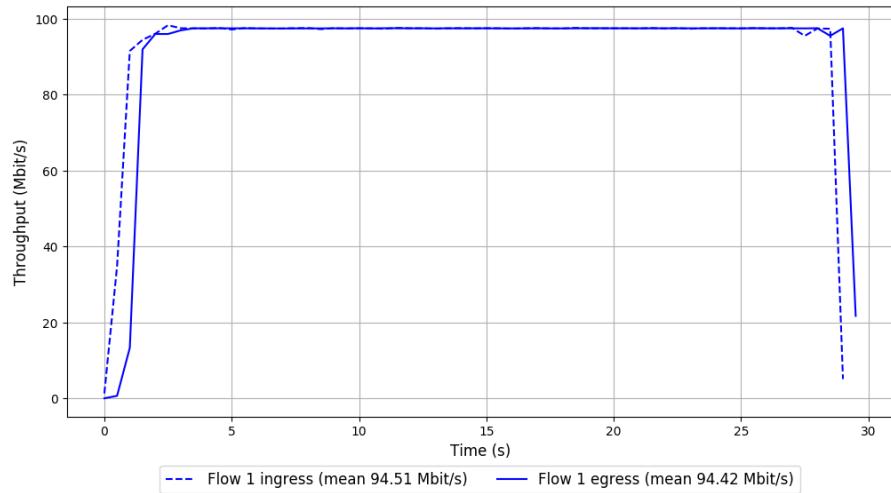


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-26 21:41:26
End at: 2019-03-26 21:41:56
Local clock offset: -4.907 ms
Remote clock offset: 1.594 ms

# Below is generated by plot.py at 2019-03-26 22:15:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 89.177 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 89.177 ms
Loss rate: 0.08%
```

Run 4: Report of Indigo-MusesC5 — Data Link

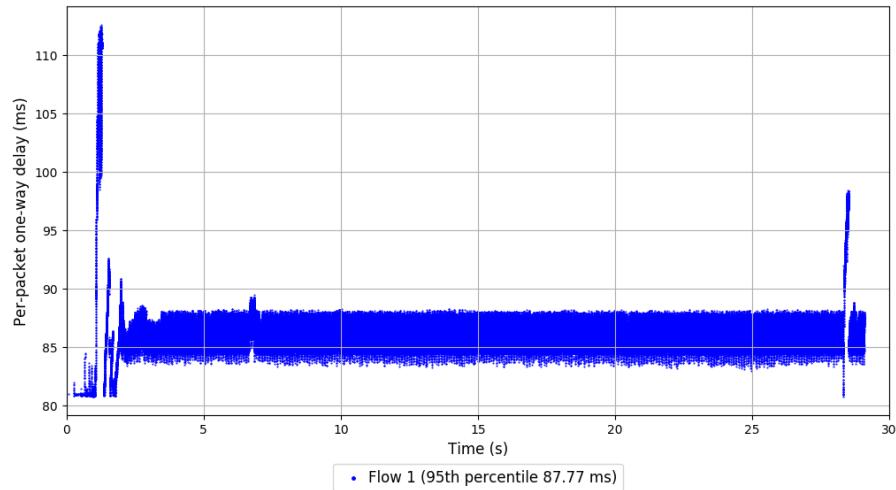
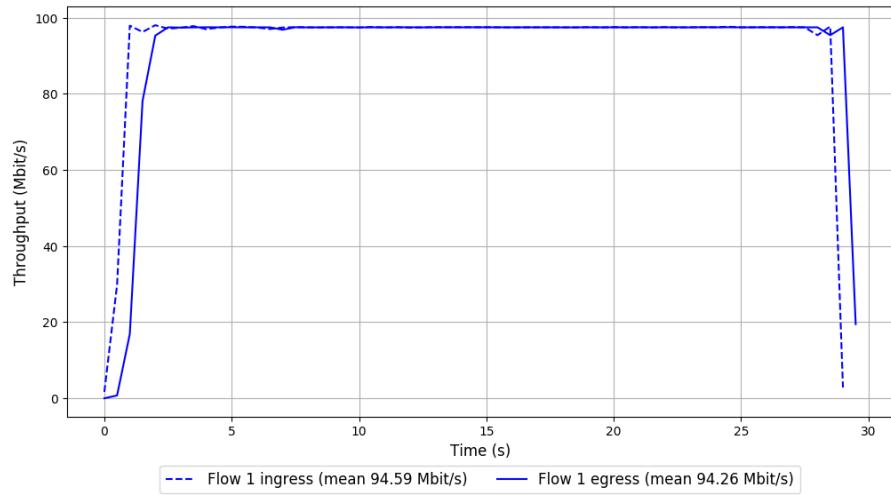


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-26 22:06:04
End at: 2019-03-26 22:06:34
Local clock offset: -8.011 ms
Remote clock offset: 2.278 ms

# Below is generated by plot.py at 2019-03-26 22:15:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 87.772 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 87.772 ms
Loss rate: 0.34%
```

Run 5: Report of Indigo-MusesC5 — Data Link

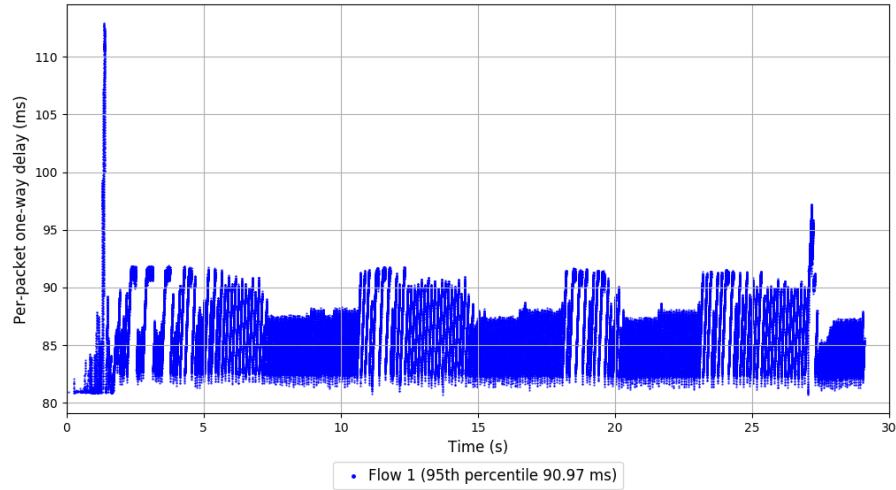
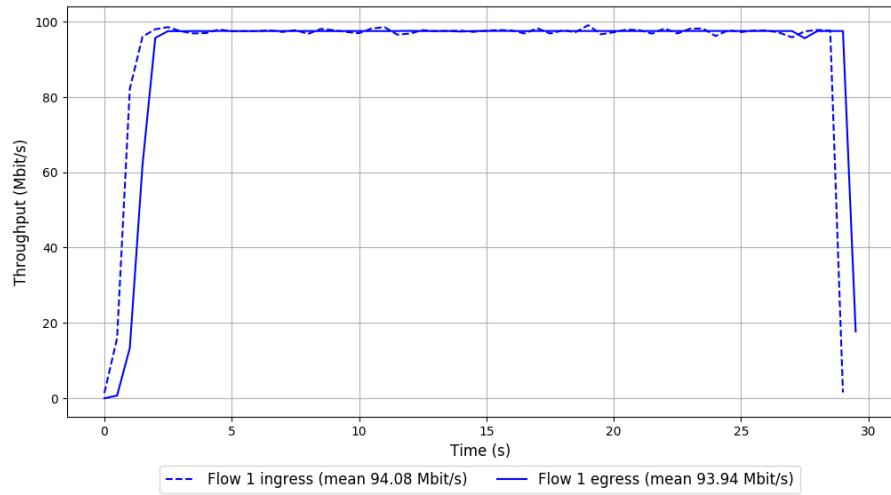


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-03-26 20:09:55
End at: 2019-03-26 20:10:25
Local clock offset: -15.439 ms
Remote clock offset: -2.585 ms

# Below is generated by plot.py at 2019-03-26 22:15:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 90.972 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 90.972 ms
Loss rate: 0.14%
```

Run 1: Report of Indigo-MusesD — Data Link

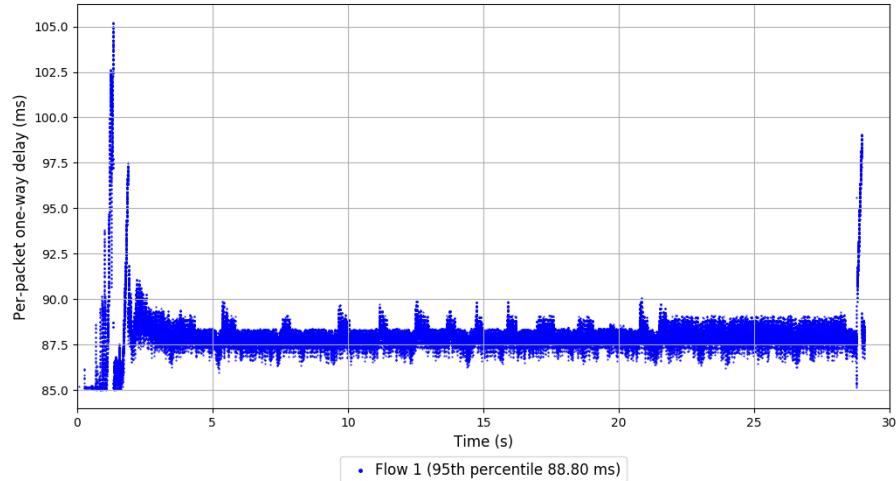
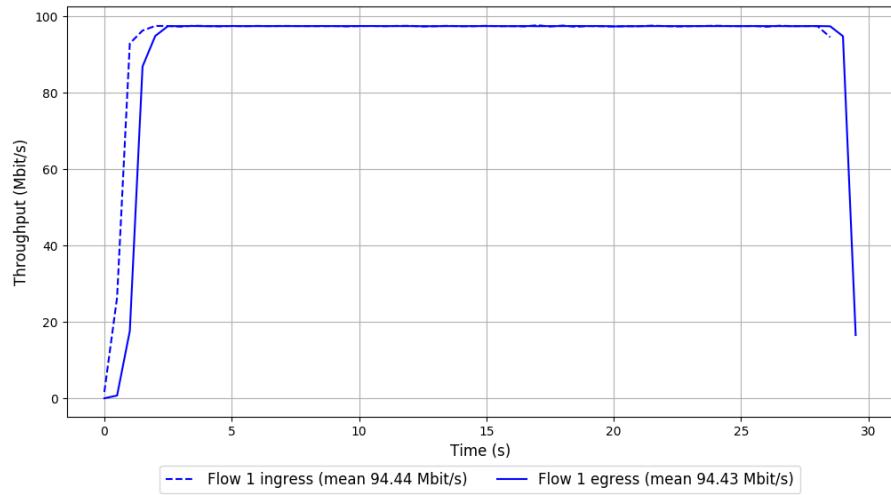


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-26 20:34:33
End at: 2019-03-26 20:35:03
Local clock offset: -12.623 ms
Remote clock offset: 2.531 ms

# Below is generated by plot.py at 2019-03-26 22:15:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.43 Mbit/s
95th percentile per-packet one-way delay: 88.798 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.43 Mbit/s
95th percentile per-packet one-way delay: 88.798 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesD — Data Link

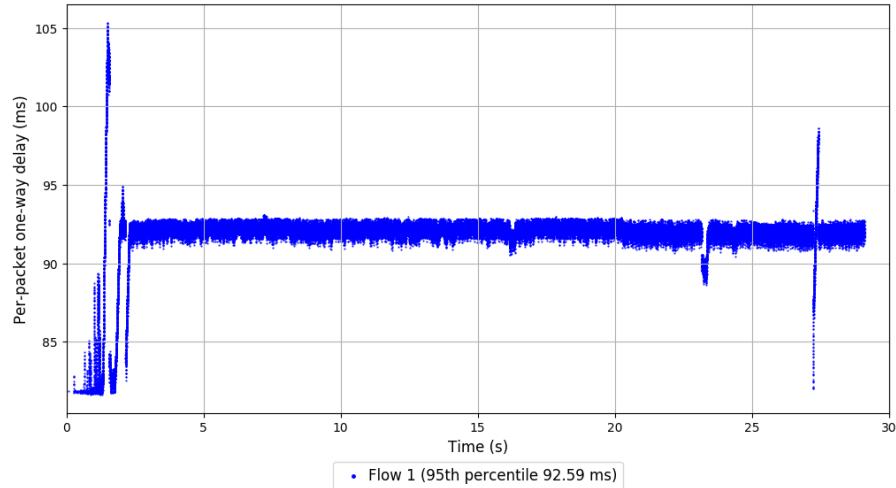
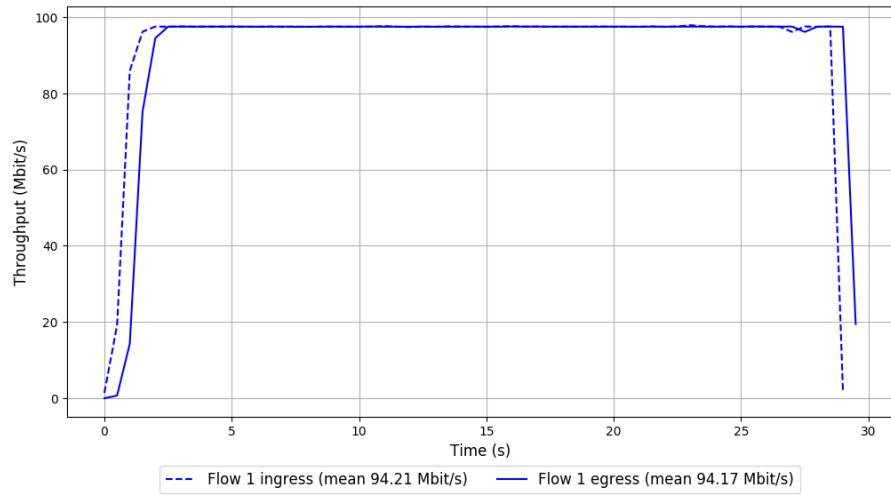


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-26 20:59:10
End at: 2019-03-26 20:59:41
Local clock offset: -10.154 ms
Remote clock offset: 1.178 ms

# Below is generated by plot.py at 2019-03-26 22:15:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 92.586 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 92.586 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesD — Data Link

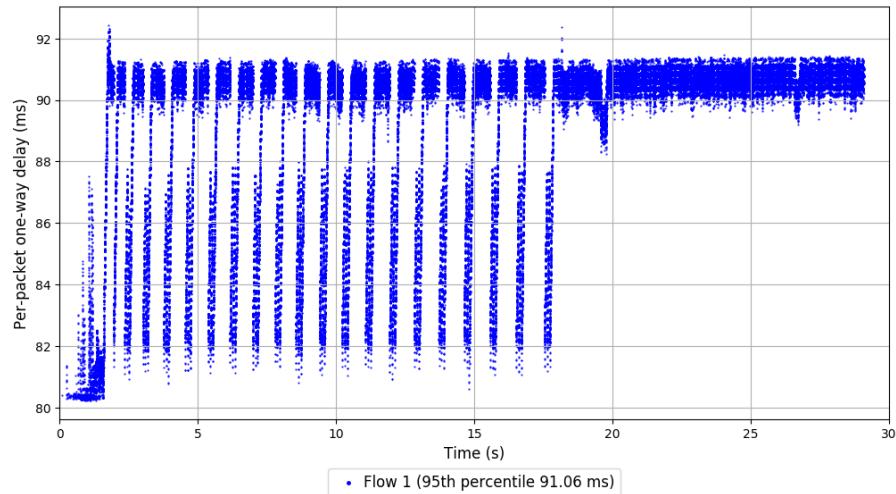
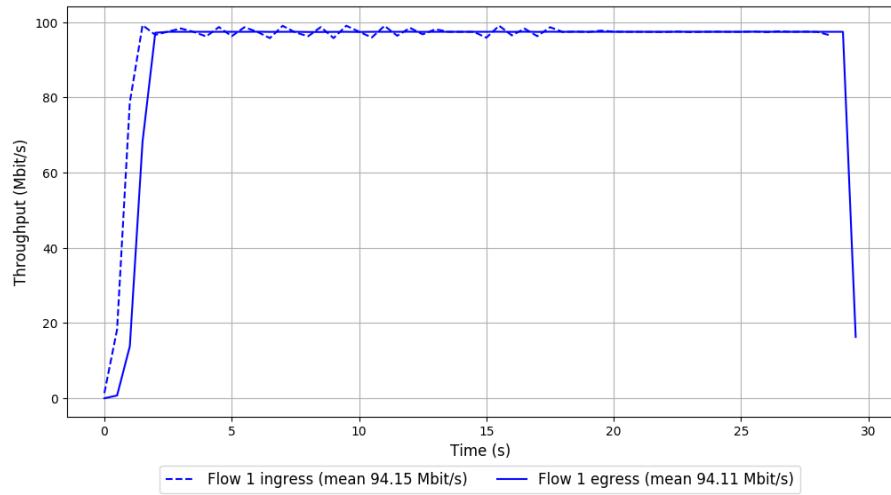


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-26 21:23:47
End at: 2019-03-26 21:24:17
Local clock offset: -6.21 ms
Remote clock offset: 0.341 ms

# Below is generated by plot.py at 2019-03-26 22:16:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.11 Mbit/s
95th percentile per-packet one-way delay: 91.062 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.11 Mbit/s
95th percentile per-packet one-way delay: 91.062 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesD — Data Link

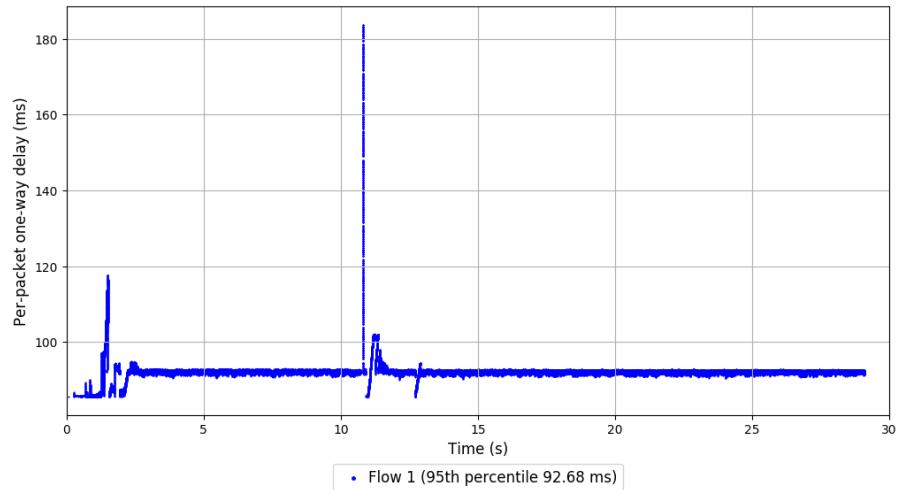
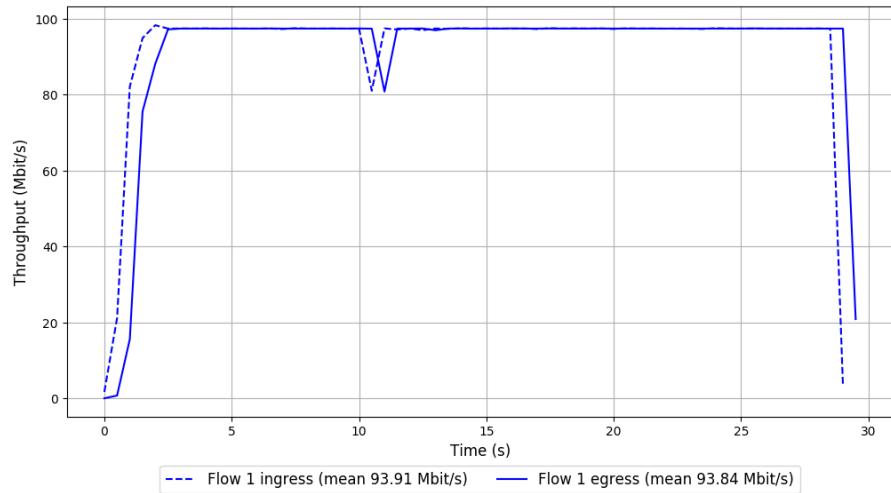


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-26 21:48:24
End at: 2019-03-26 21:48:54
Local clock offset: -5.404 ms
Remote clock offset: 5.416 ms

# Below is generated by plot.py at 2019-03-26 22:16:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 92.678 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 92.678 ms
Loss rate: 0.06%
```

Run 5: Report of Indigo-MusesD — Data Link

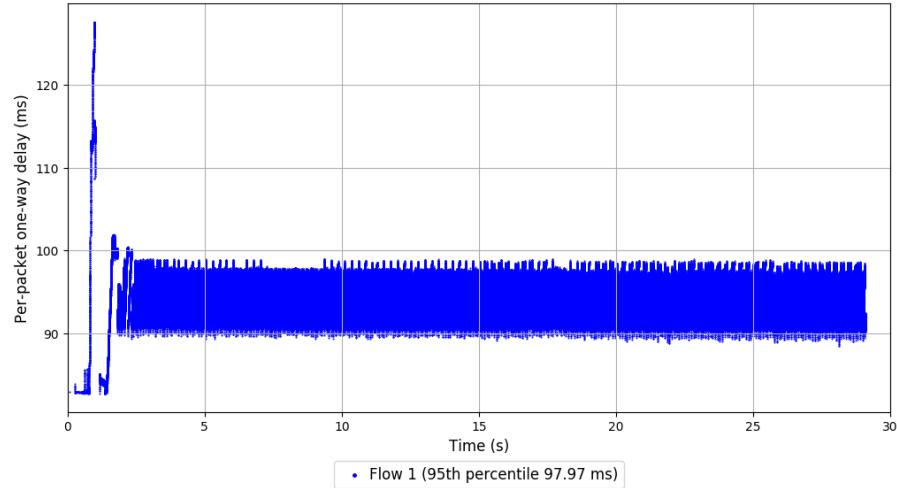
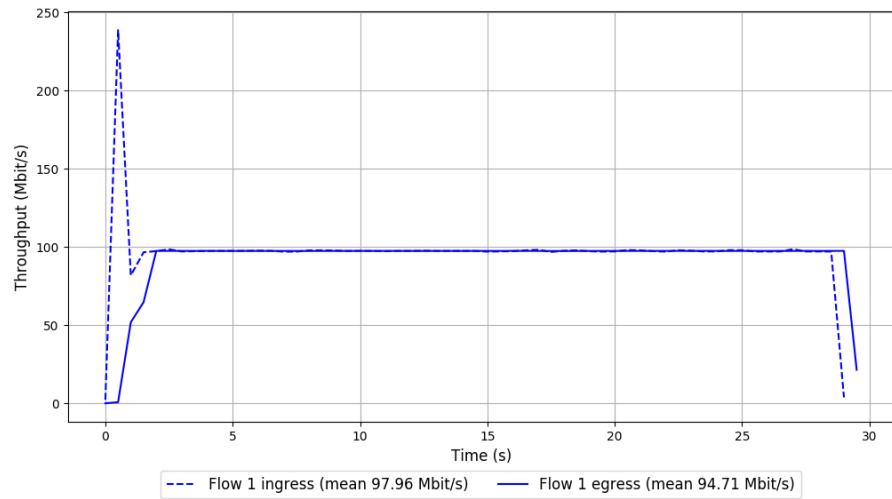


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-03-26 20:06:27
End at: 2019-03-26 20:06:57
Local clock offset: -14.457 ms
Remote clock offset: -0.62 ms

# Below is generated by plot.py at 2019-03-26 22:16:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 97.965 ms
Loss rate: 3.28%
-- Flow 1:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 97.965 ms
Loss rate: 3.28%
```

Run 1: Report of Indigo-MusesT — Data Link

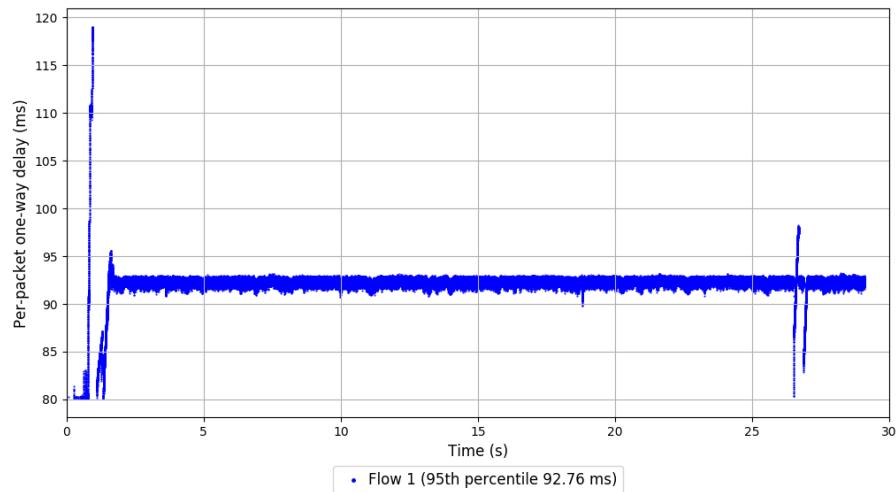
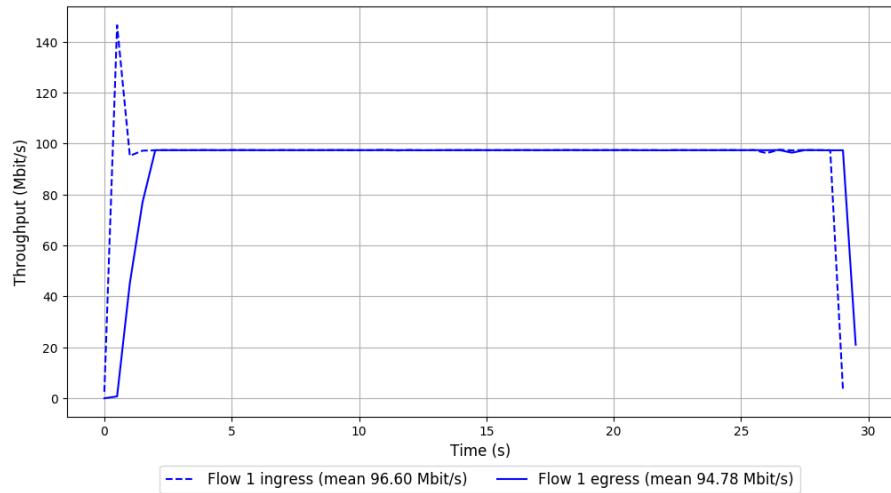


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-26 20:31:05
End at: 2019-03-26 20:31:35
Local clock offset: -11.745 ms
Remote clock offset: -1.36 ms

# Below is generated by plot.py at 2019-03-26 22:16:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 92.762 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 92.762 ms
Loss rate: 1.85%
```

Run 2: Report of Indigo-MusesT — Data Link

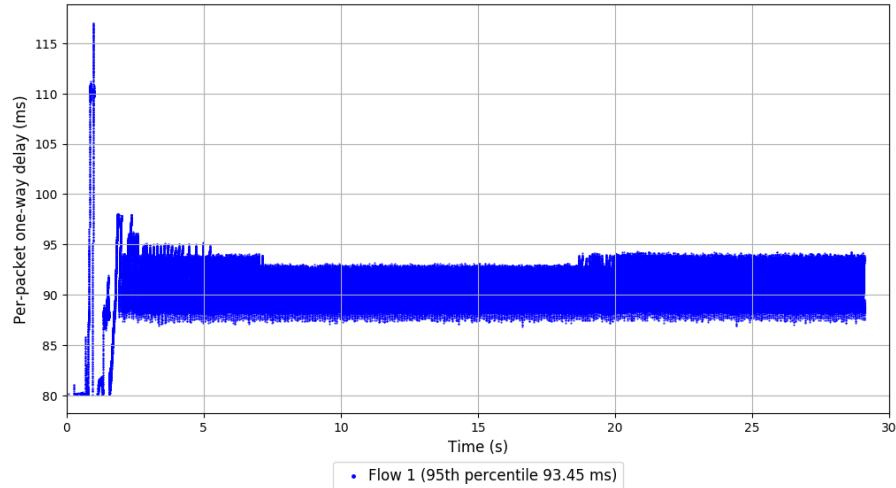
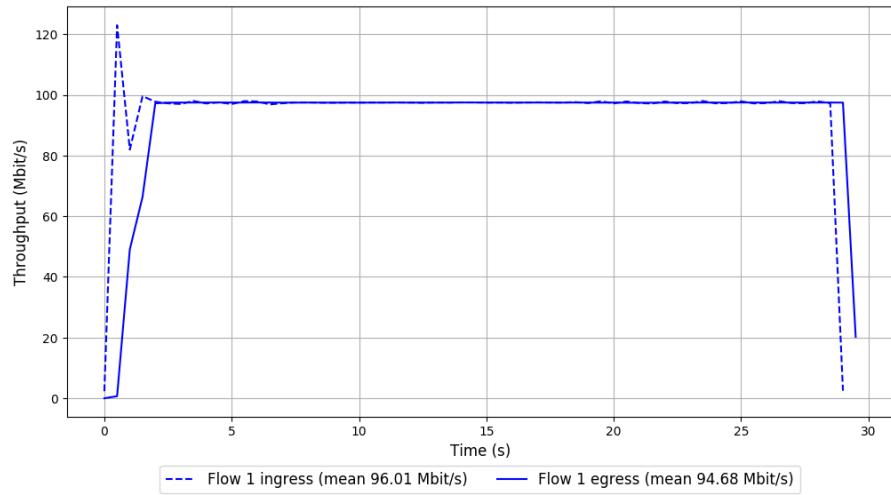


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-26 20:55:43
End at: 2019-03-26 20:56:13
Local clock offset: -10.538 ms
Remote clock offset: 1.274 ms

# Below is generated by plot.py at 2019-03-26 22:16:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.68 Mbit/s
95th percentile per-packet one-way delay: 93.449 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 94.68 Mbit/s
95th percentile per-packet one-way delay: 93.449 ms
Loss rate: 1.36%
```

Run 3: Report of Indigo-MusesT — Data Link

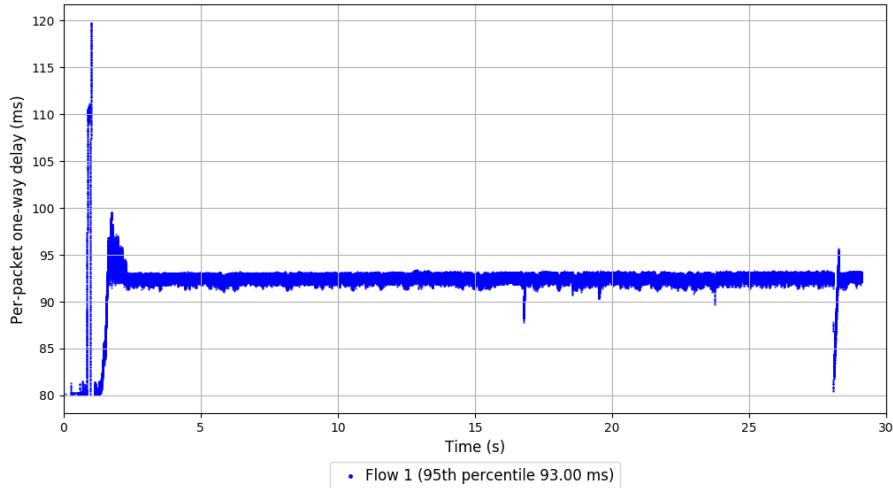
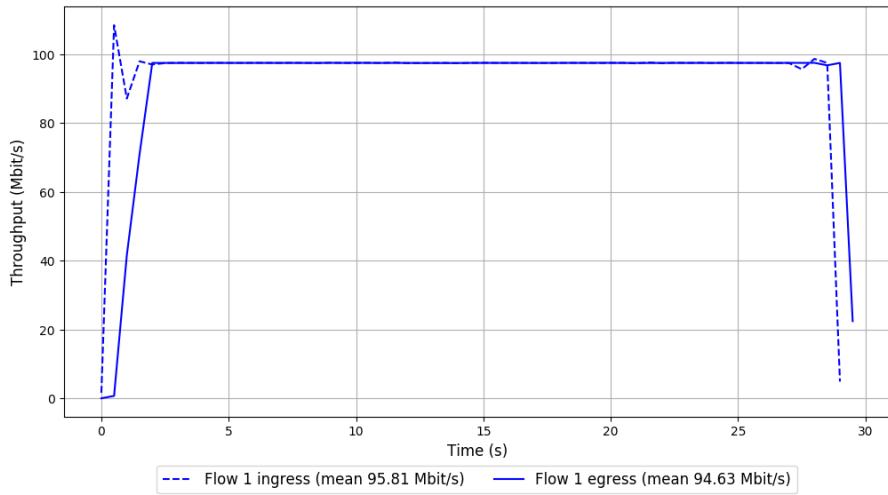


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-26 21:20:19
End at: 2019-03-26 21:20:49
Local clock offset: -7.516 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-03-26 22:16:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 92.995 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 92.995 ms
Loss rate: 1.19%
```

Run 4: Report of Indigo-MusesT — Data Link

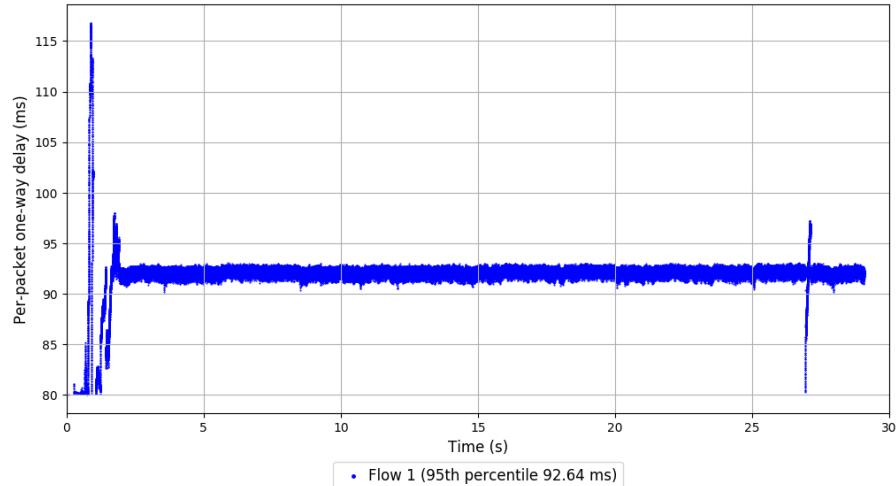
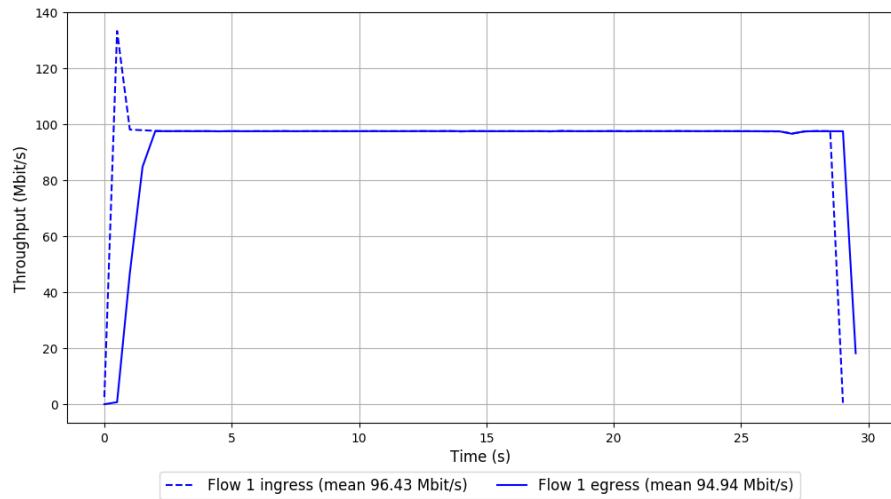


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-26 21:44:57
End at: 2019-03-26 21:45:27
Local clock offset: -3.992 ms
Remote clock offset: 0.571 ms

# Below is generated by plot.py at 2019-03-26 22:16:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.94 Mbit/s
95th percentile per-packet one-way delay: 92.636 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 94.94 Mbit/s
95th percentile per-packet one-way delay: 92.636 ms
Loss rate: 1.51%
```

Run 5: Report of Indigo-MusesT — Data Link

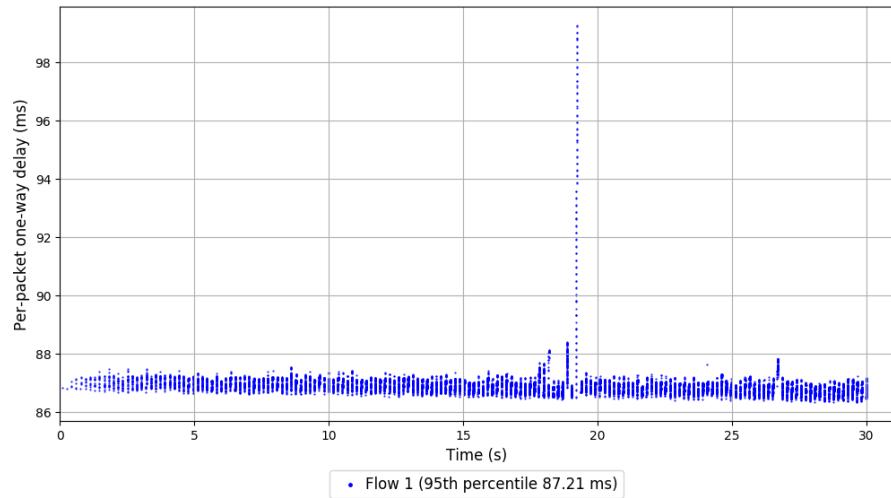
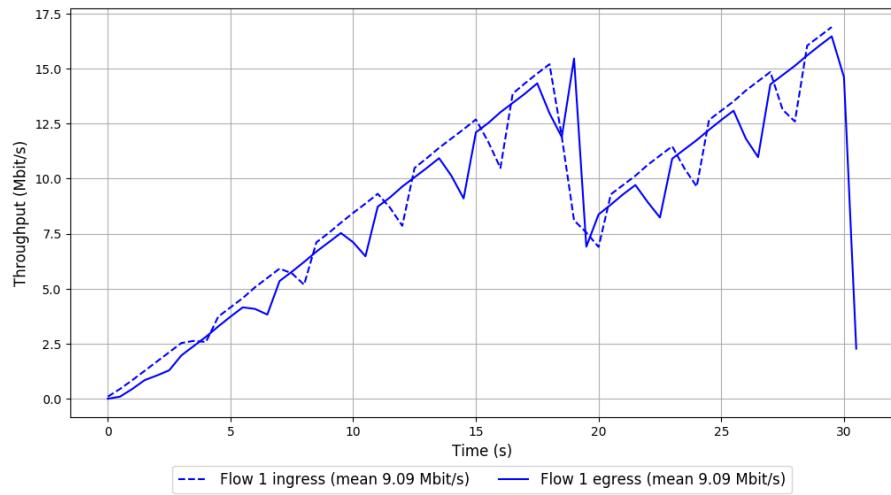


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-03-26 20:08:46
End at: 2019-03-26 20:09:16
Local clock offset: -15.89 ms
Remote clock offset: 2.022 ms

# Below is generated by plot.py at 2019-03-26 22:16:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.09 Mbit/s
95th percentile per-packet one-way delay: 87.210 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.09 Mbit/s
95th percentile per-packet one-way delay: 87.210 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

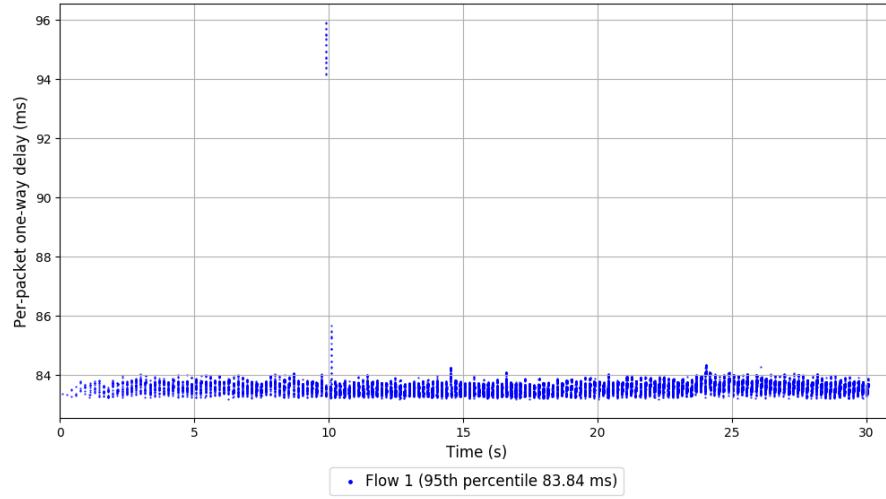
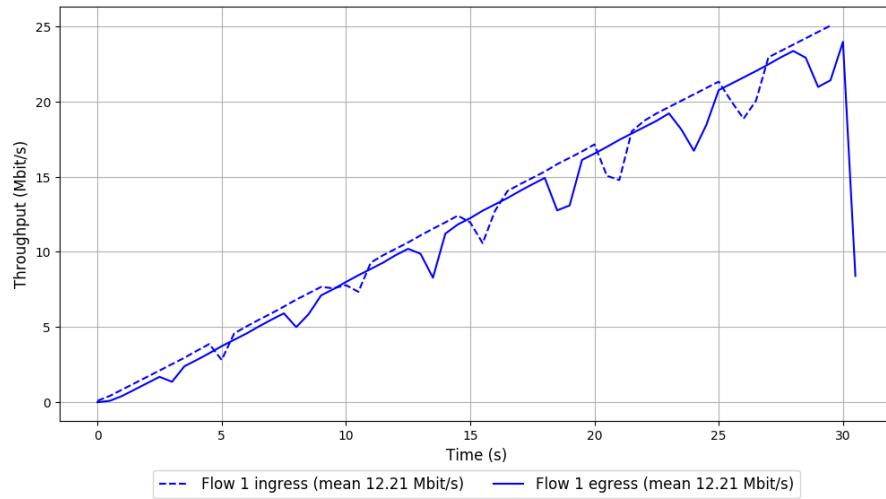


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-26 20:33:24
End at: 2019-03-26 20:33:54
Local clock offset: -11.842 ms
Remote clock offset: 3.227 ms

# Below is generated by plot.py at 2019-03-26 22:16:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.21 Mbit/s
95th percentile per-packet one-way delay: 83.838 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.21 Mbit/s
95th percentile per-packet one-way delay: 83.838 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

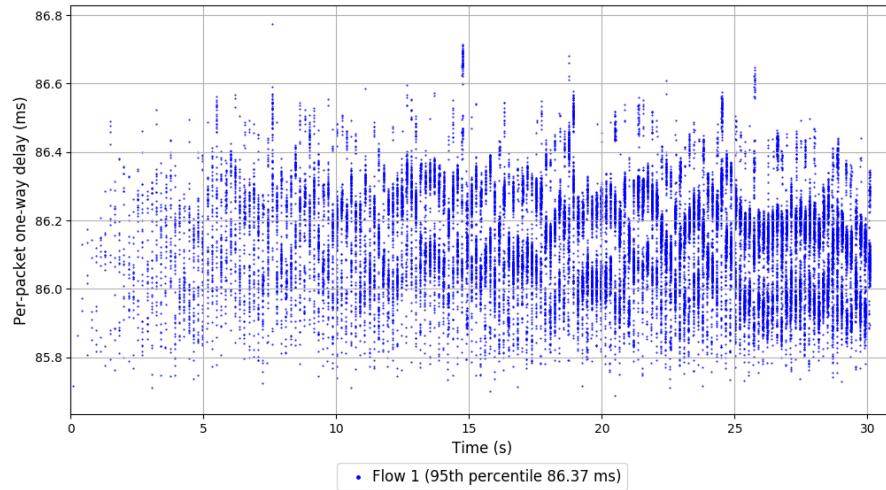
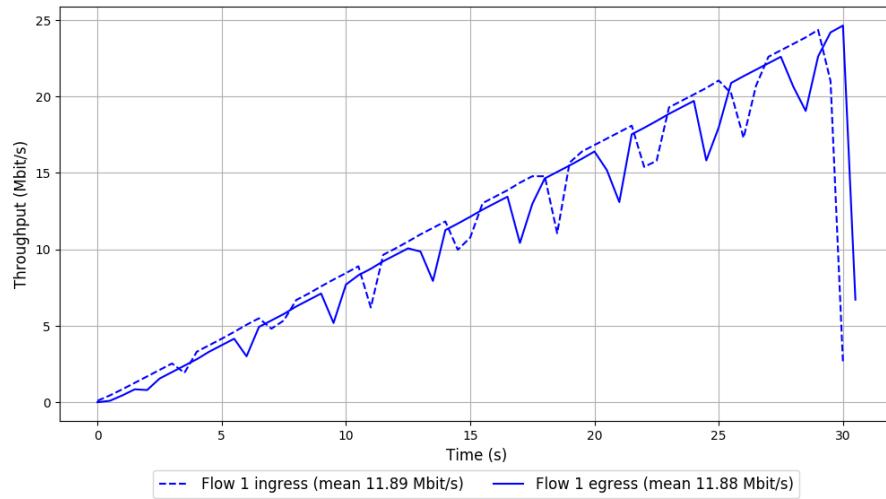


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-26 20:58:02
End at: 2019-03-26 20:58:32
Local clock offset: -9.524 ms
Remote clock offset: 5.224 ms

# Below is generated by plot.py at 2019-03-26 22:16:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.88 Mbit/s
95th percentile per-packet one-way delay: 86.367 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 11.88 Mbit/s
95th percentile per-packet one-way delay: 86.367 ms
Loss rate: 0.06%
```

Run 3: Report of LEDBAT — Data Link

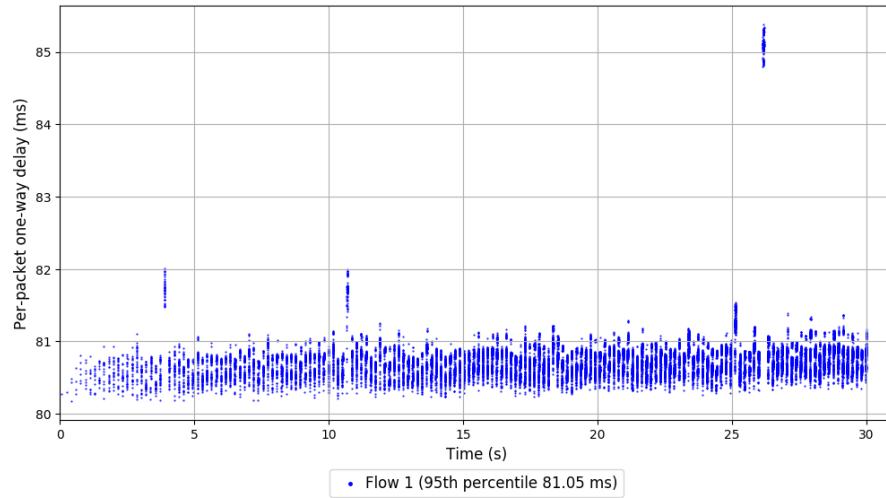
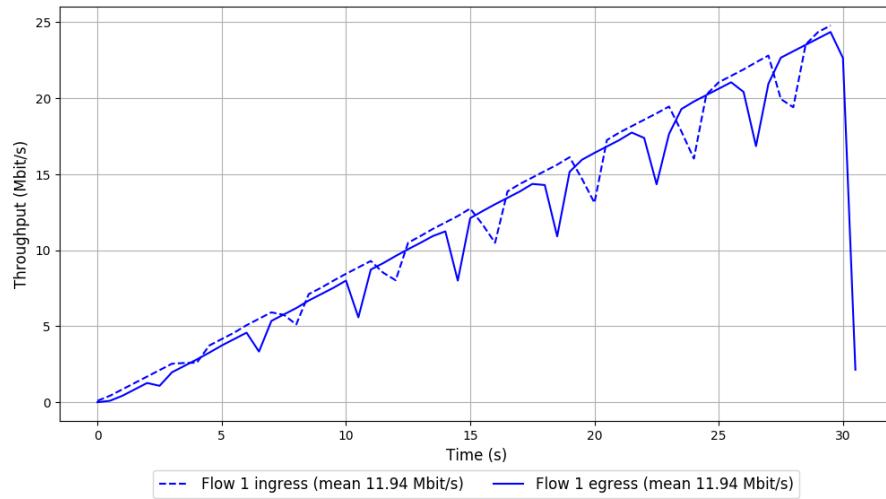


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-26 21:22:38
End at: 2019-03-26 21:23:09
Local clock offset: -6.573 ms
Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2019-03-26 22:16:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.94 Mbit/s
95th percentile per-packet one-way delay: 81.050 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.94 Mbit/s
95th percentile per-packet one-way delay: 81.050 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

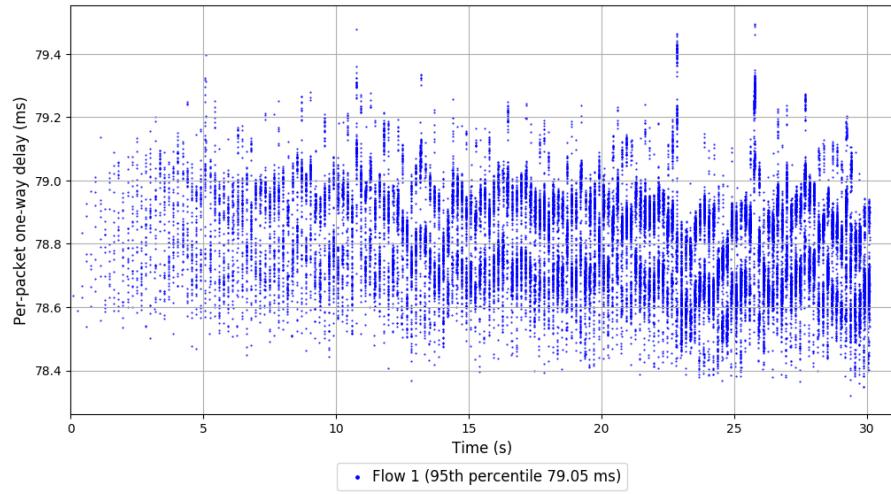
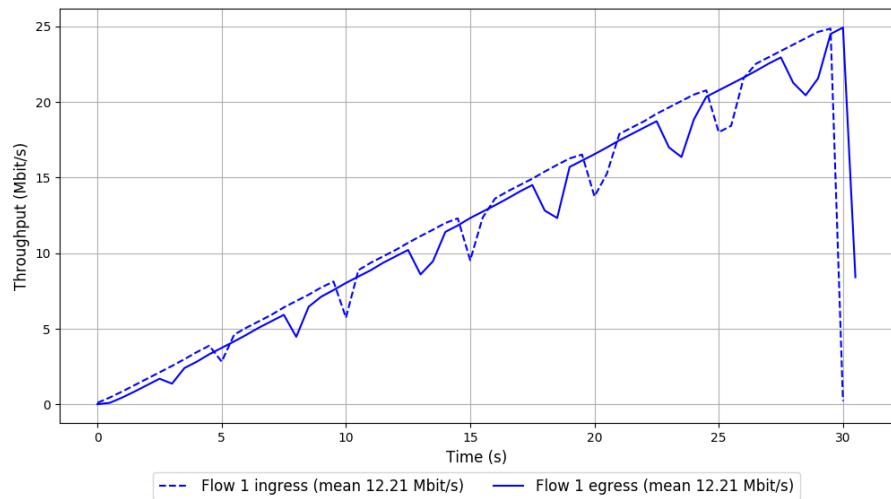


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-26 21:47:16
End at: 2019-03-26 21:47:46
Local clock offset: -4.367 ms
Remote clock offset: 0.551 ms

# Below is generated by plot.py at 2019-03-26 22:16:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.21 Mbit/s
95th percentile per-packet one-way delay: 79.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.21 Mbit/s
95th percentile per-packet one-way delay: 79.049 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

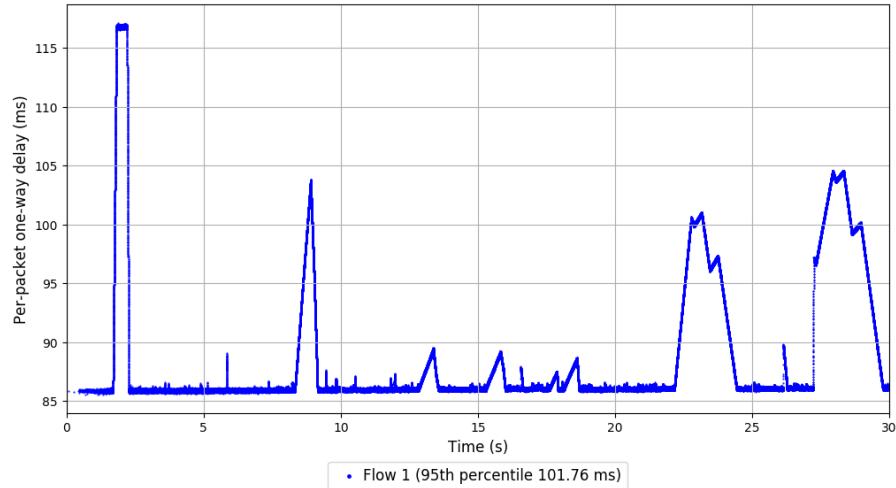
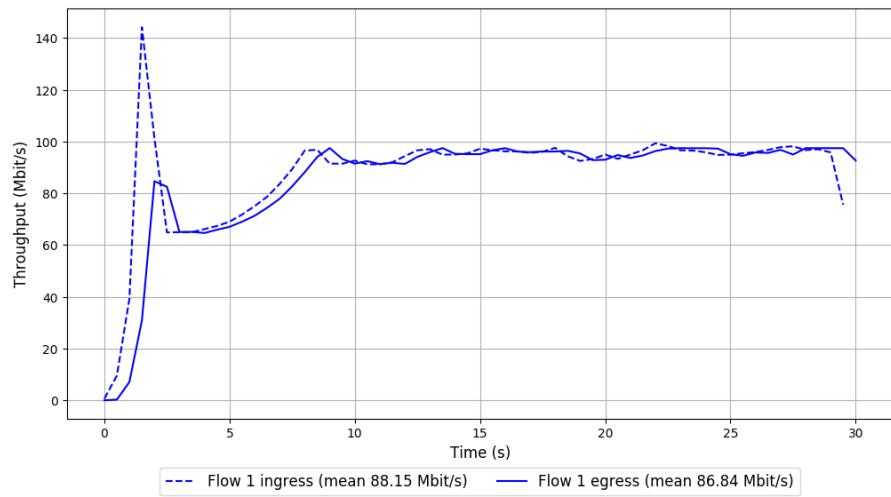


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-03-26 20:22:49
End at: 2019-03-26 20:23:19
Local clock offset: -13.839 ms
Remote clock offset: 3.479 ms

# Below is generated by plot.py at 2019-03-26 22:17:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.84 Mbit/s
95th percentile per-packet one-way delay: 101.760 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 86.84 Mbit/s
95th percentile per-packet one-way delay: 101.760 ms
Loss rate: 1.49%
```

Run 1: Report of PCC-Allegro — Data Link

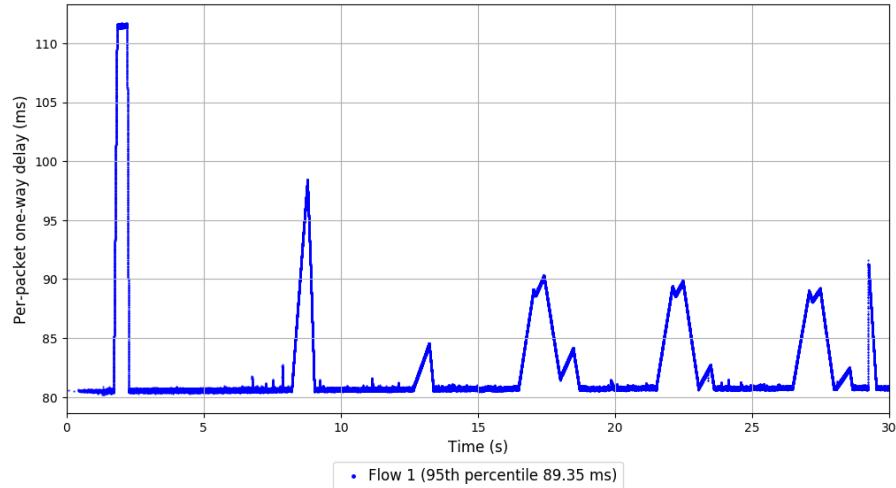
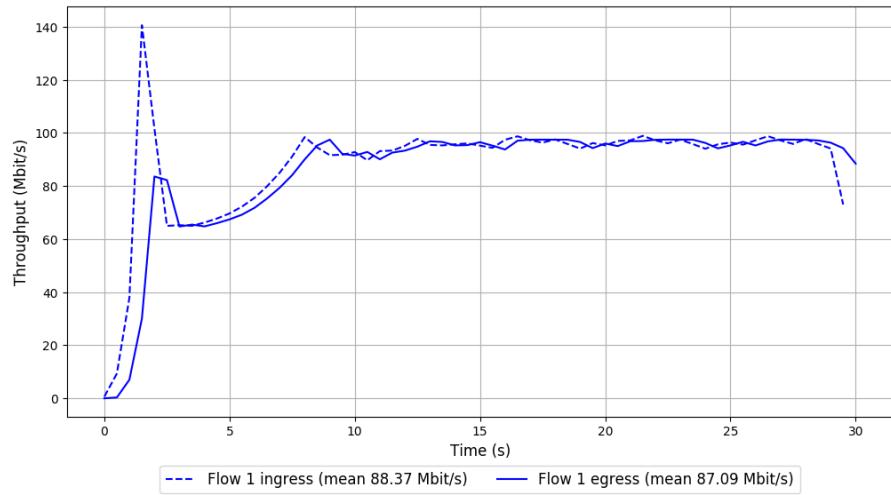


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-26 20:47:26
End at: 2019-03-26 20:47:56
Local clock offset: -13.464 ms
Remote clock offset: 0.686 ms

# Below is generated by plot.py at 2019-03-26 22:17:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.09 Mbit/s
95th percentile per-packet one-way delay: 89.349 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 87.09 Mbit/s
95th percentile per-packet one-way delay: 89.349 ms
Loss rate: 1.45%
```

Run 2: Report of PCC-Allegro — Data Link

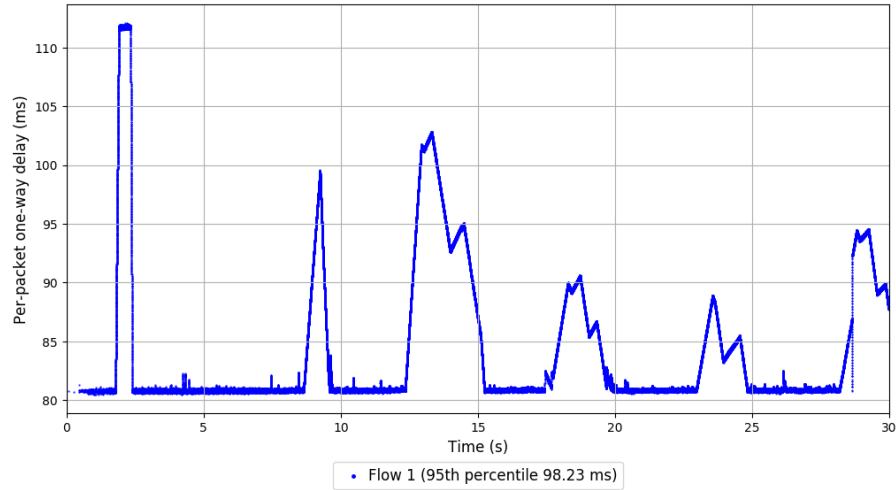
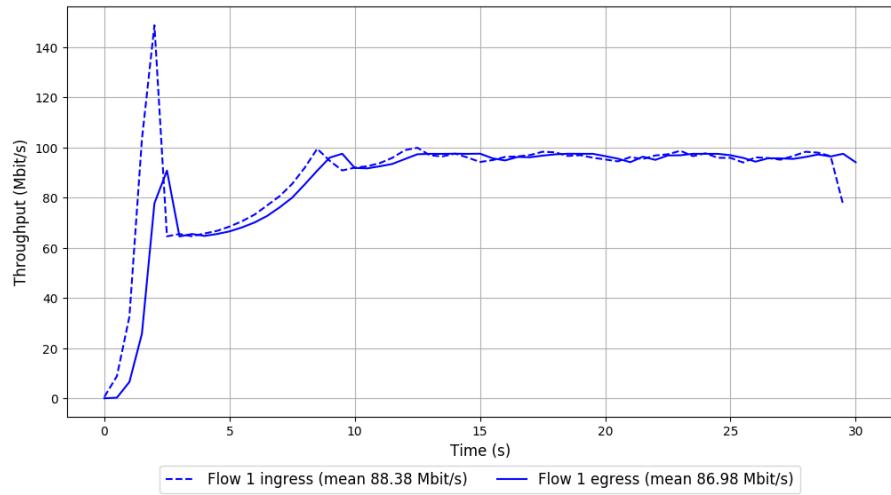


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-26 21:12:03
End at: 2019-03-26 21:12:33
Local clock offset: -9.673 ms
Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2019-03-26 22:17:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.98 Mbit/s
95th percentile per-packet one-way delay: 98.234 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 86.98 Mbit/s
95th percentile per-packet one-way delay: 98.234 ms
Loss rate: 1.57%
```

Run 3: Report of PCC-Allegro — Data Link

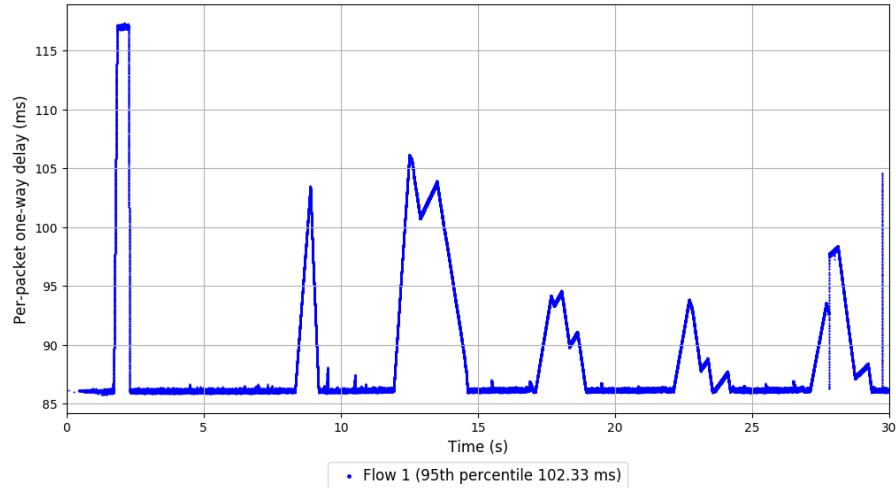
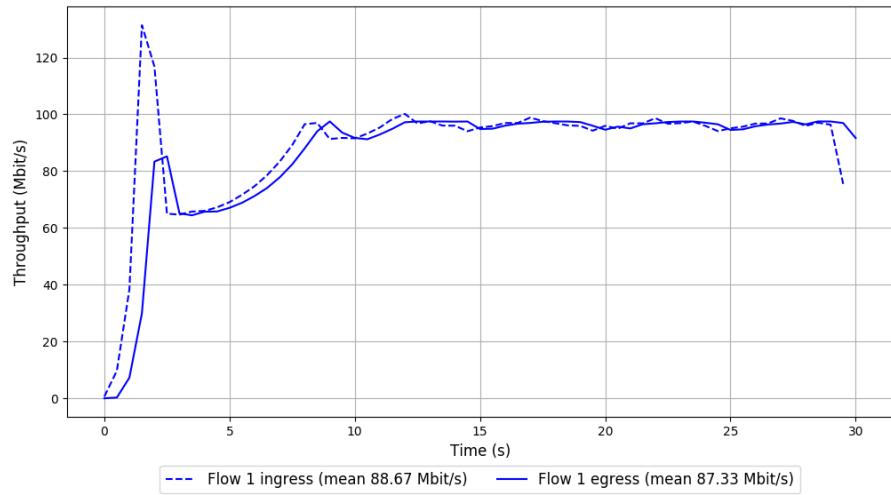


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-26 21:36:40
End at: 2019-03-26 21:37:10
Local clock offset: -4.997 ms
Remote clock offset: 5.218 ms

# Below is generated by plot.py at 2019-03-26 22:17:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.33 Mbit/s
95th percentile per-packet one-way delay: 102.331 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 87.33 Mbit/s
95th percentile per-packet one-way delay: 102.331 ms
Loss rate: 1.51%
```

Run 4: Report of PCC-Allegro — Data Link

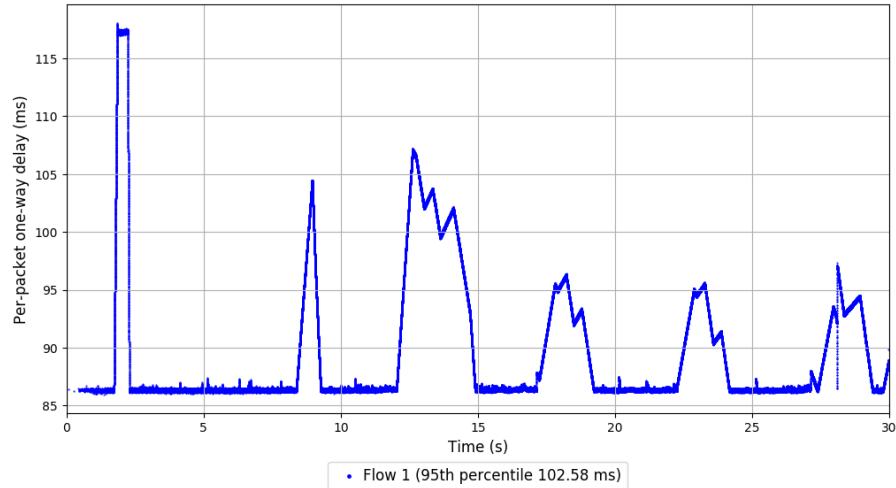
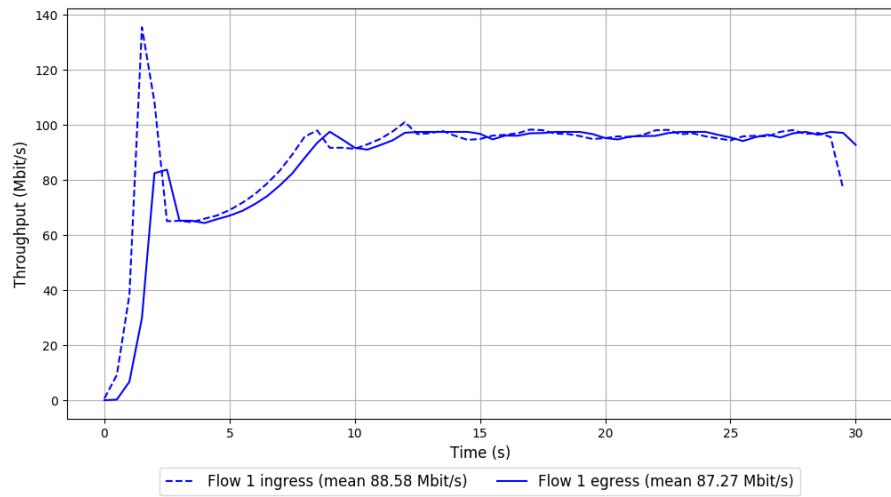


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-26 22:01:18
End at: 2019-03-26 22:01:48
Local clock offset: -7.645 ms
Remote clock offset: 6.895 ms

# Below is generated by plot.py at 2019-03-26 22:18:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.27 Mbit/s
95th percentile per-packet one-way delay: 102.579 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 87.27 Mbit/s
95th percentile per-packet one-way delay: 102.579 ms
Loss rate: 1.47%
```

Run 5: Report of PCC-Allegro — Data Link

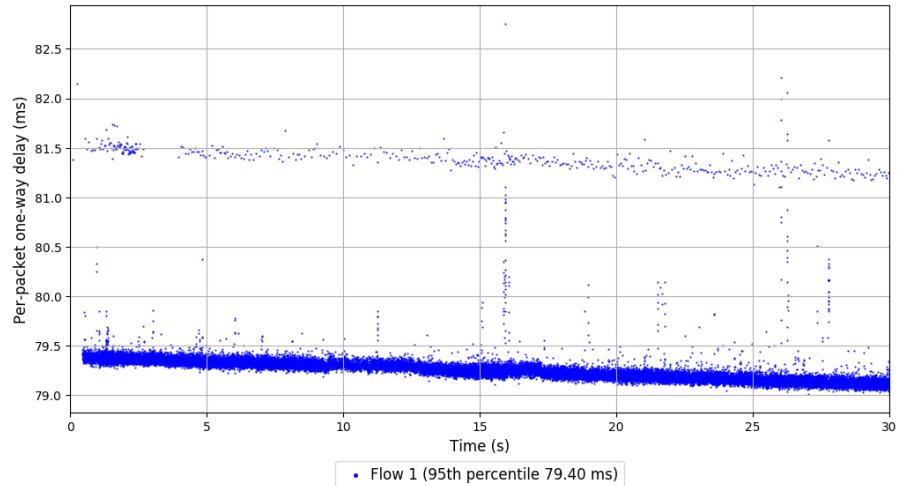
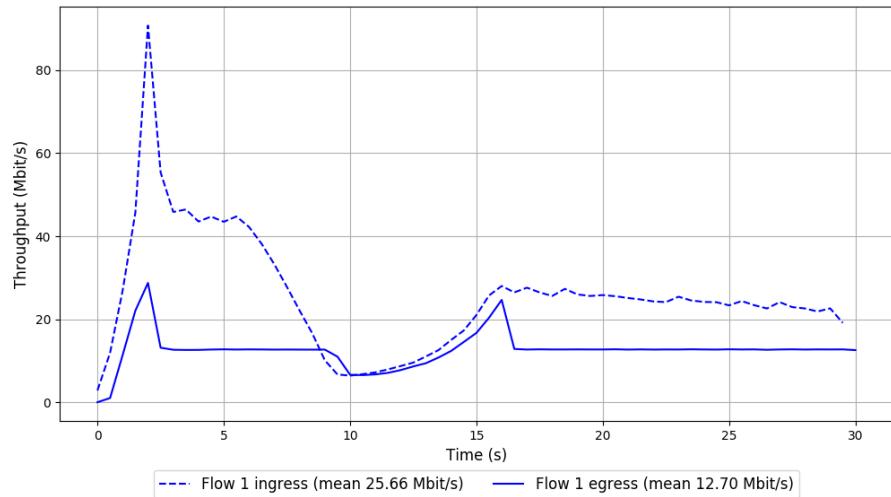


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-03-26 20:12:19
End at: 2019-03-26 20:12:49
Local clock offset: -16.165 ms
Remote clock offset: -1.545 ms

# Below is generated by plot.py at 2019-03-26 22:18:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 79.404 ms
Loss rate: 50.51%
-- Flow 1:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 79.404 ms
Loss rate: 50.51%
```

Run 1: Report of PCC-Expr — Data Link

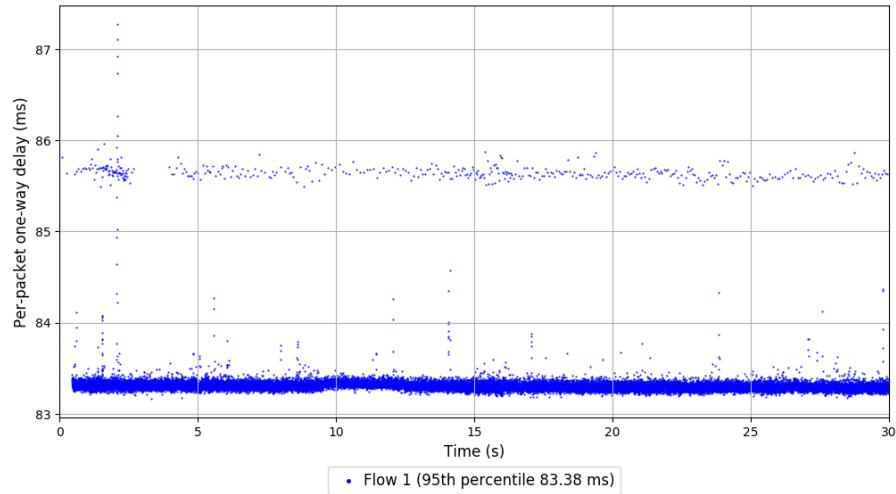
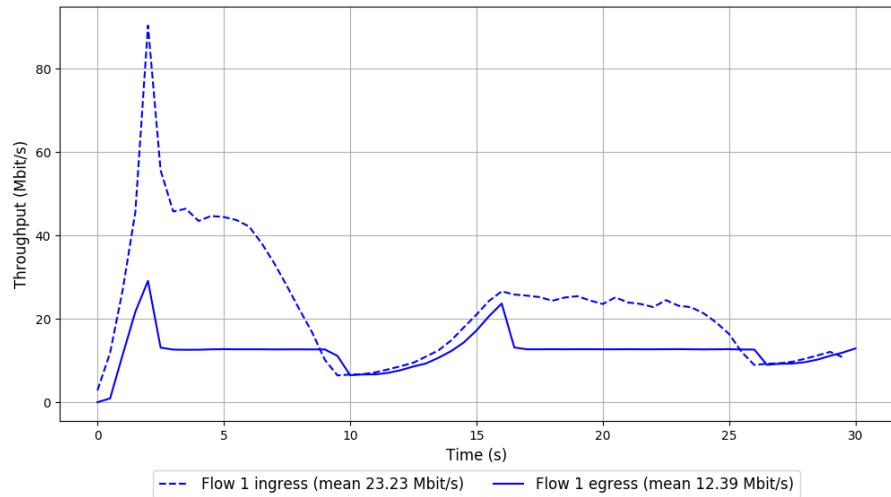


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-26 20:36:56
End at: 2019-03-26 20:37:26
Local clock offset: -12.056 ms
Remote clock offset: 3.282 ms

# Below is generated by plot.py at 2019-03-26 22:18:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 83.378 ms
Loss rate: 46.67%
-- Flow 1:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 83.378 ms
Loss rate: 46.67%
```

Run 2: Report of PCC-Expr — Data Link

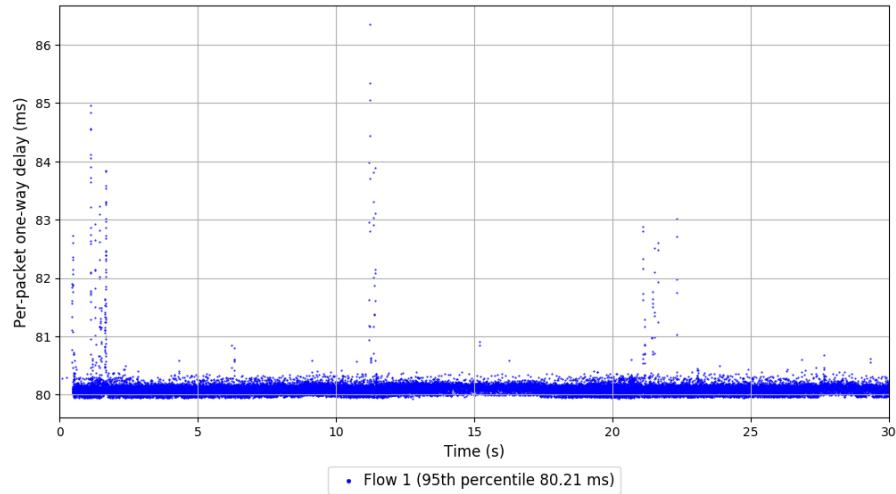
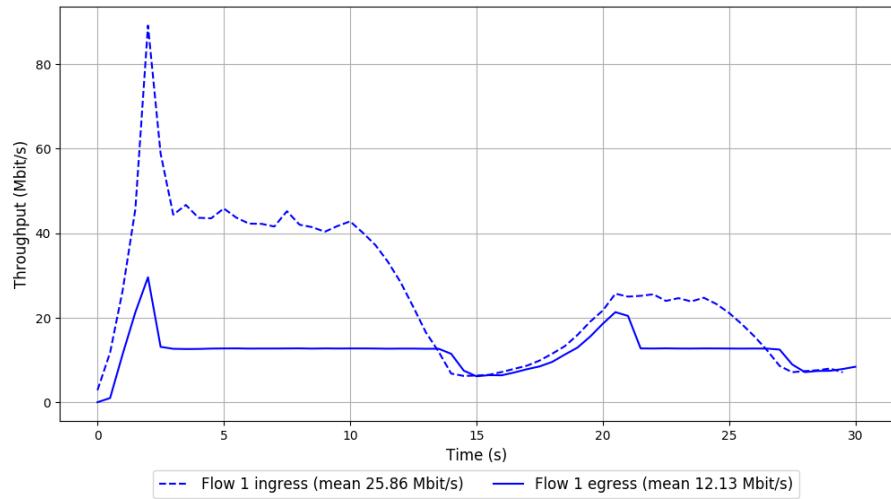


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-26 21:01:34
End at: 2019-03-26 21:02:04
Local clock offset: -9.27 ms
Remote clock offset: 0.236 ms

# Below is generated by plot.py at 2019-03-26 22:18:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 80.212 ms
Loss rate: 53.10%
-- Flow 1:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 80.212 ms
Loss rate: 53.10%
```

Run 3: Report of PCC-Expr — Data Link

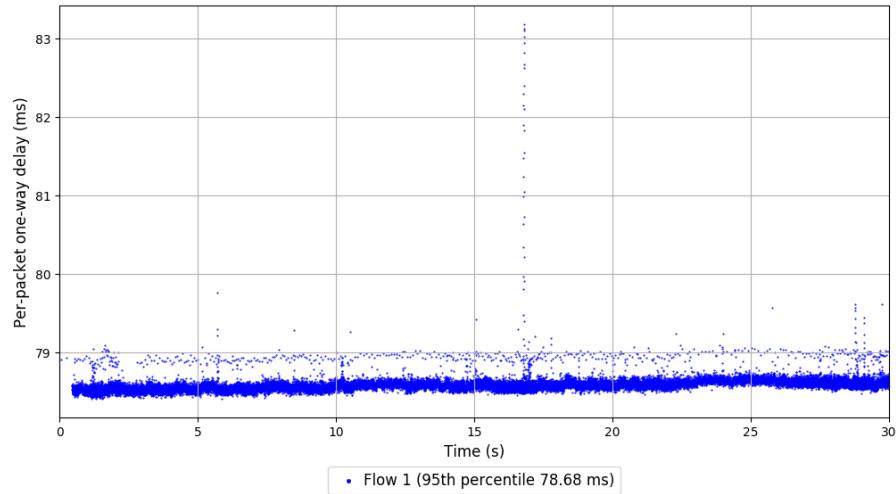
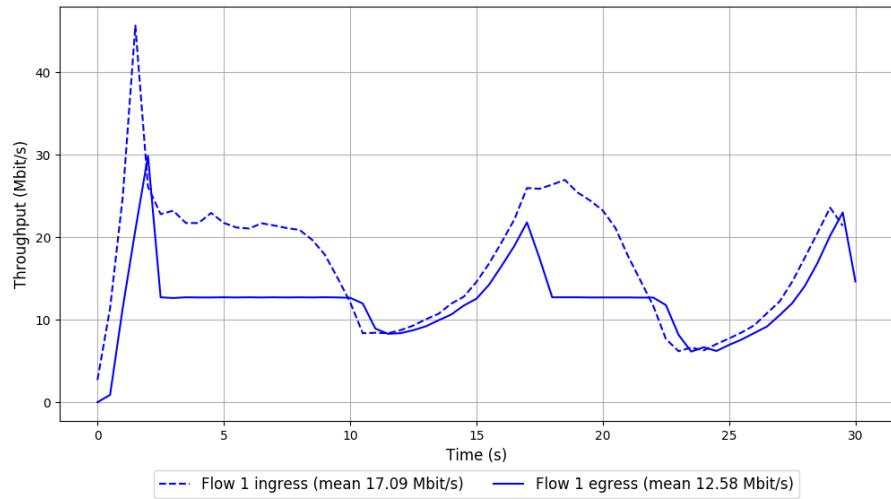


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-26 21:26:11
End at: 2019-03-26 21:26:41
Local clock offset: -5.507 ms
Remote clock offset: 0.406 ms

# Below is generated by plot.py at 2019-03-26 22:18:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 78.677 ms
Loss rate: 26.39%
-- Flow 1:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 78.677 ms
Loss rate: 26.39%
```

Run 4: Report of PCC-Expr — Data Link

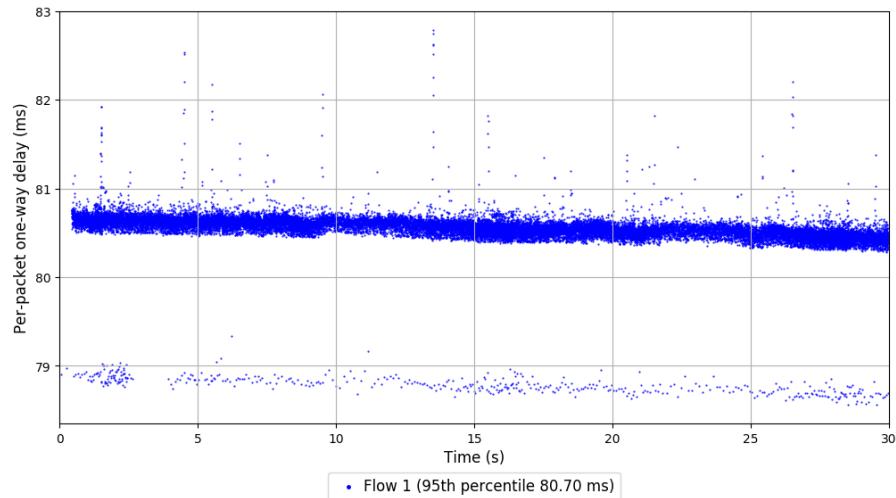
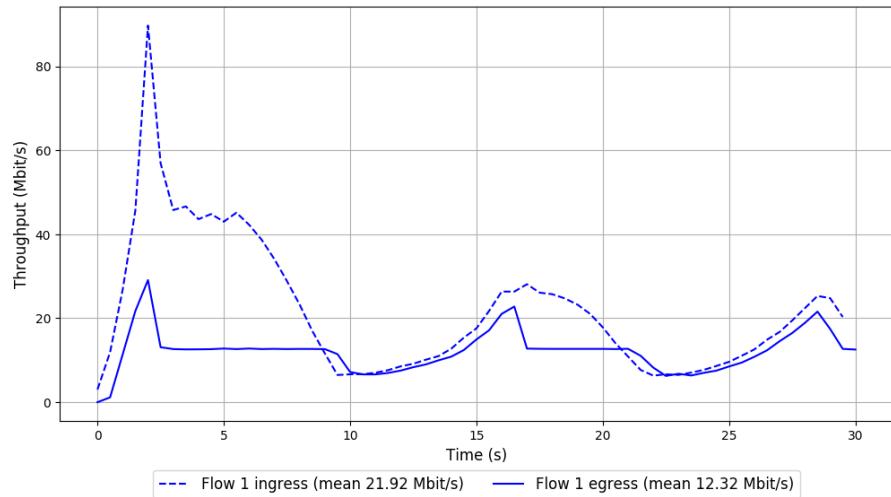


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-26 21:50:48
End at: 2019-03-26 21:51:18
Local clock offset: -5.994 ms
Remote clock offset: 0.336 ms

# Below is generated by plot.py at 2019-03-26 22:18:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.32 Mbit/s
95th percentile per-packet one-way delay: 80.697 ms
Loss rate: 43.80%
-- Flow 1:
Average throughput: 12.32 Mbit/s
95th percentile per-packet one-way delay: 80.697 ms
Loss rate: 43.80%
```

Run 5: Report of PCC-Expr — Data Link

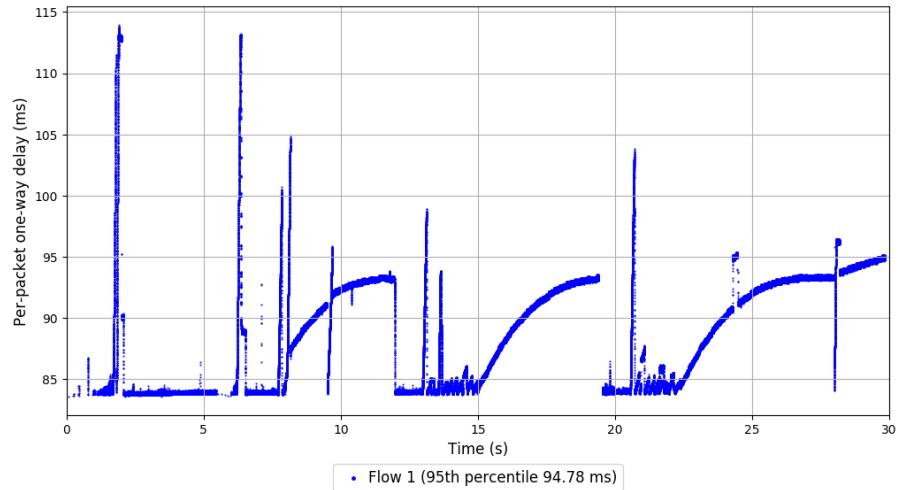
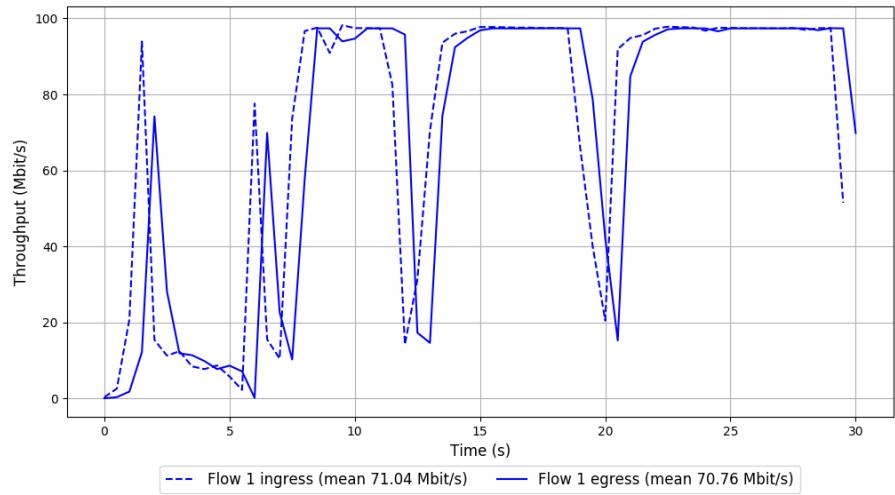


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-03-26 20:23:59
End at: 2019-03-26 20:24:30
Local clock offset: -12.692 ms
Remote clock offset: 3.65 ms

# Below is generated by plot.py at 2019-03-26 22:18:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.76 Mbit/s
95th percentile per-packet one-way delay: 94.775 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 70.76 Mbit/s
95th percentile per-packet one-way delay: 94.775 ms
Loss rate: 0.36%
```

Run 1: Report of QUIC Cubic — Data Link

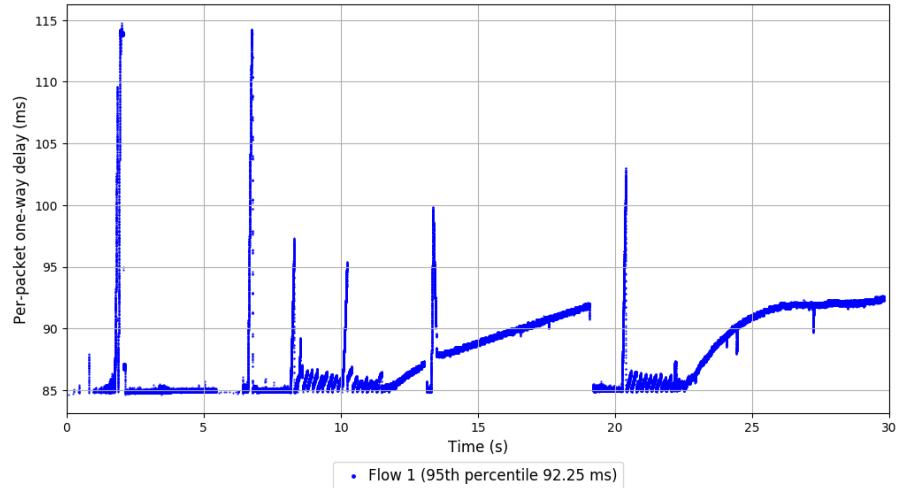
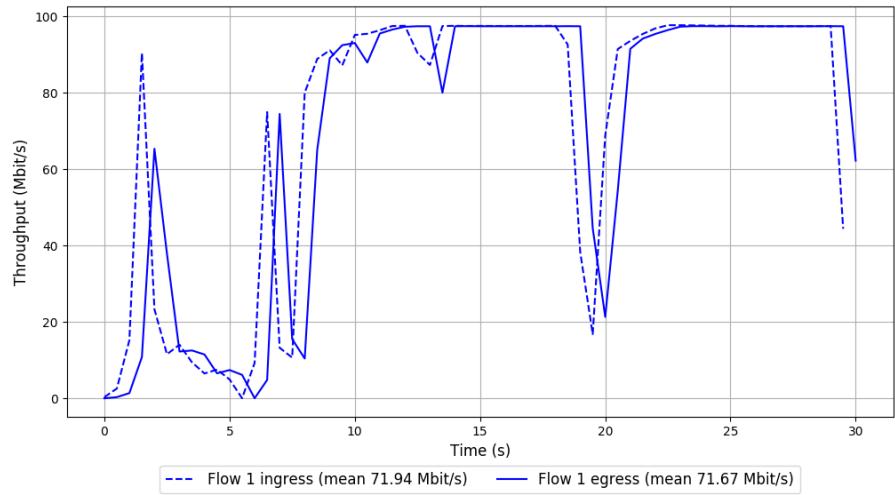


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-26 20:48:37
End at: 2019-03-26 20:49:07
Local clock offset: -12.789 ms
Remote clock offset: 4.676 ms

# Below is generated by plot.py at 2019-03-26 22:18:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.67 Mbit/s
95th percentile per-packet one-way delay: 92.249 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 71.67 Mbit/s
95th percentile per-packet one-way delay: 92.249 ms
Loss rate: 0.35%
```

Run 2: Report of QUIC Cubic — Data Link

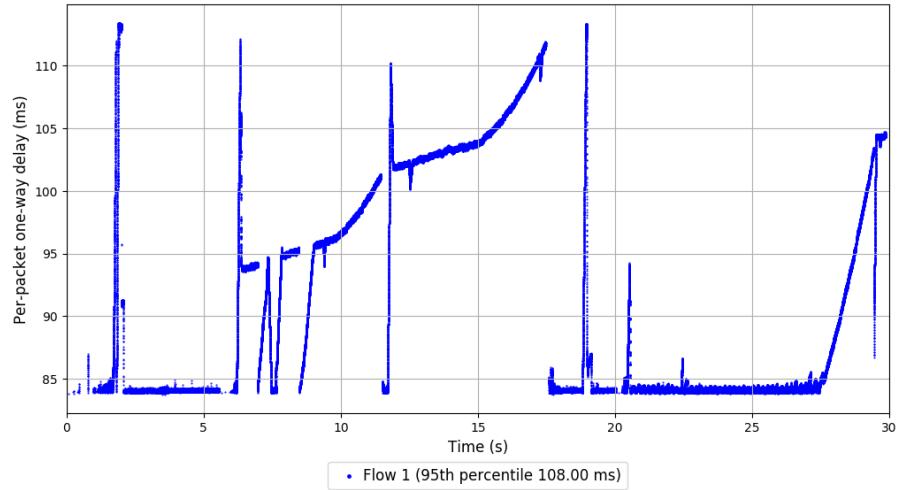
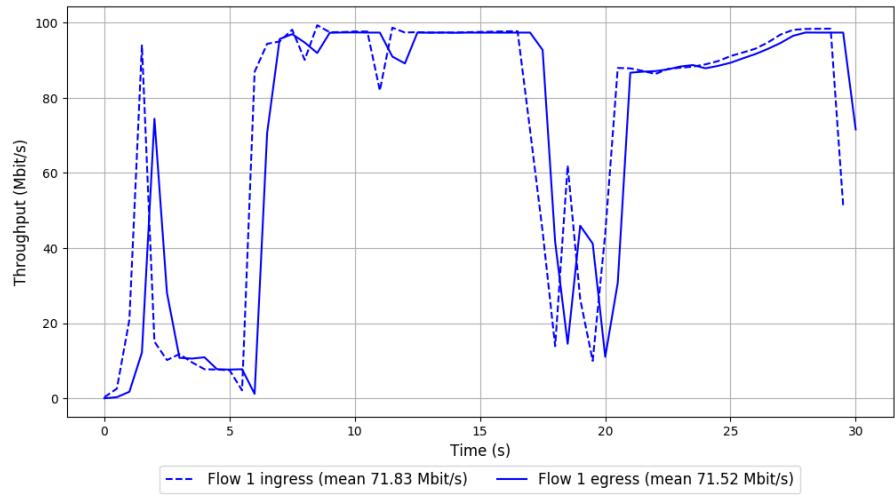


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-26 21:13:14
End at: 2019-03-26 21:13:44
Local clock offset: -10.512 ms
Remote clock offset: 4.963 ms

# Below is generated by plot.py at 2019-03-26 22:18:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.52 Mbit/s
95th percentile per-packet one-way delay: 107.997 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 71.52 Mbit/s
95th percentile per-packet one-way delay: 107.997 ms
Loss rate: 0.36%
```

Run 3: Report of QUIC Cubic — Data Link

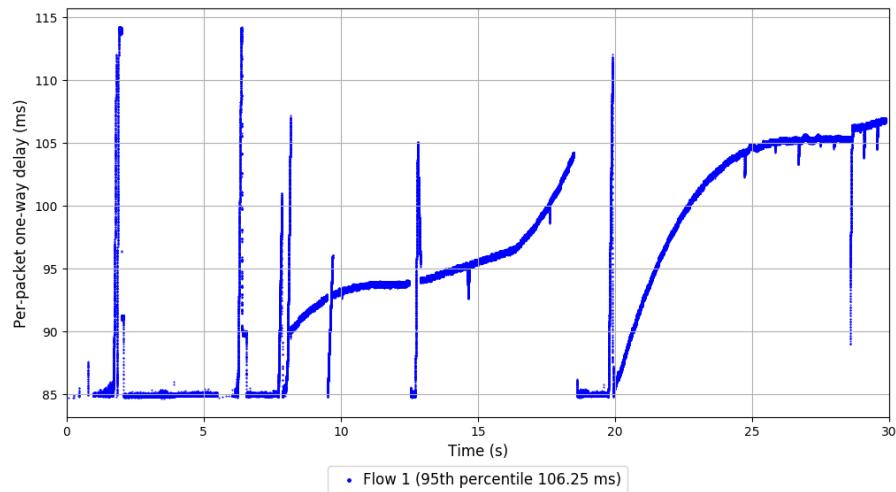
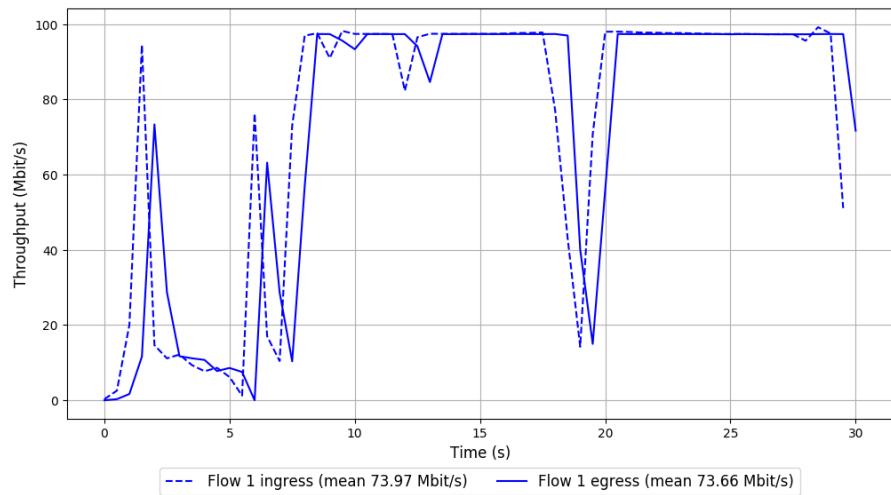


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-26 21:37:51
End at: 2019-03-26 21:38:21
Local clock offset: -4.951 ms
Remote clock offset: 5.307 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.66 Mbit/s
95th percentile per-packet one-way delay: 106.254 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 73.66 Mbit/s
95th percentile per-packet one-way delay: 106.254 ms
Loss rate: 0.34%
```

Run 4: Report of QUIC Cubic — Data Link

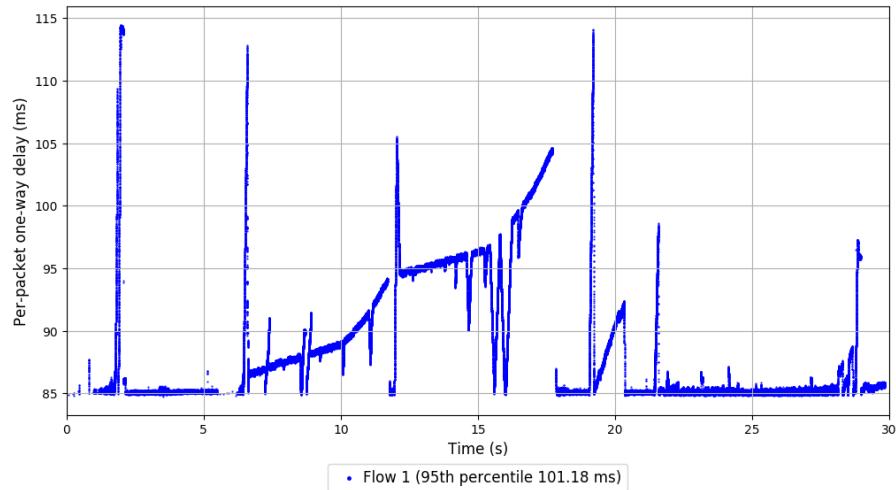
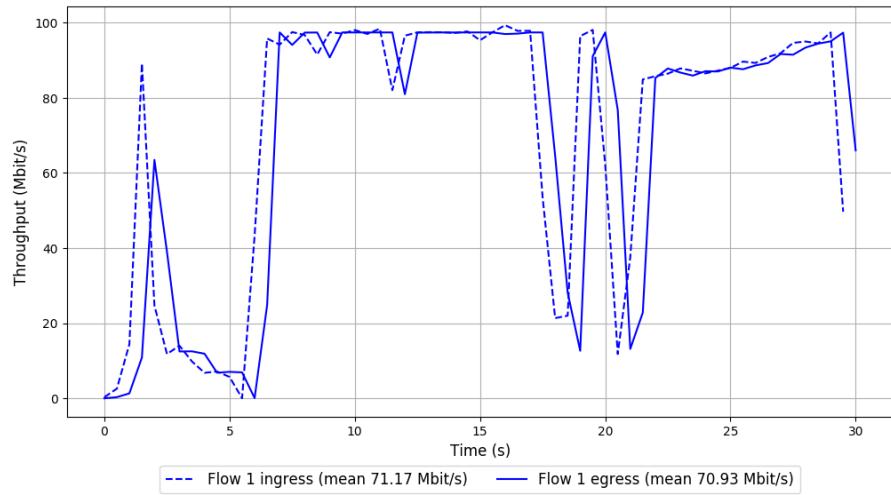


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-26 22:02:29
End at: 2019-03-26 22:02:59
Local clock offset: -6.987 ms
Remote clock offset: 6.931 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.93 Mbit/s
95th percentile per-packet one-way delay: 101.177 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 70.93 Mbit/s
95th percentile per-packet one-way delay: 101.177 ms
Loss rate: 0.33%
```

Run 5: Report of QUIC Cubic — Data Link

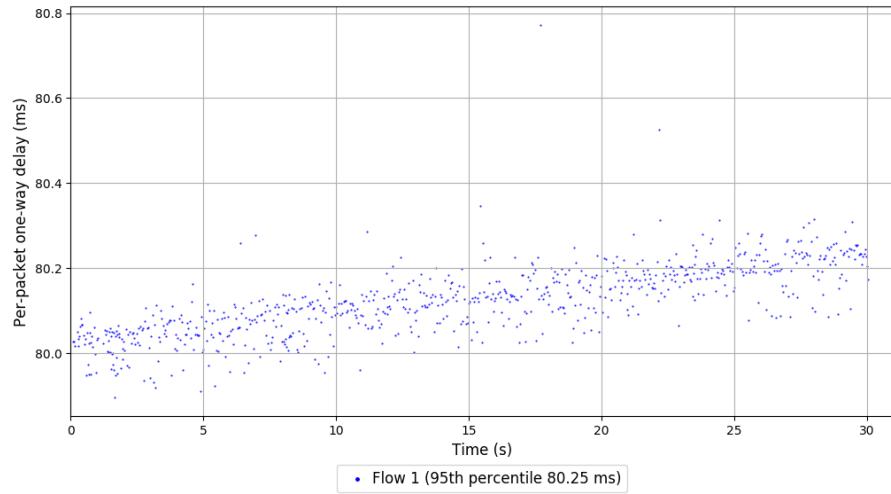
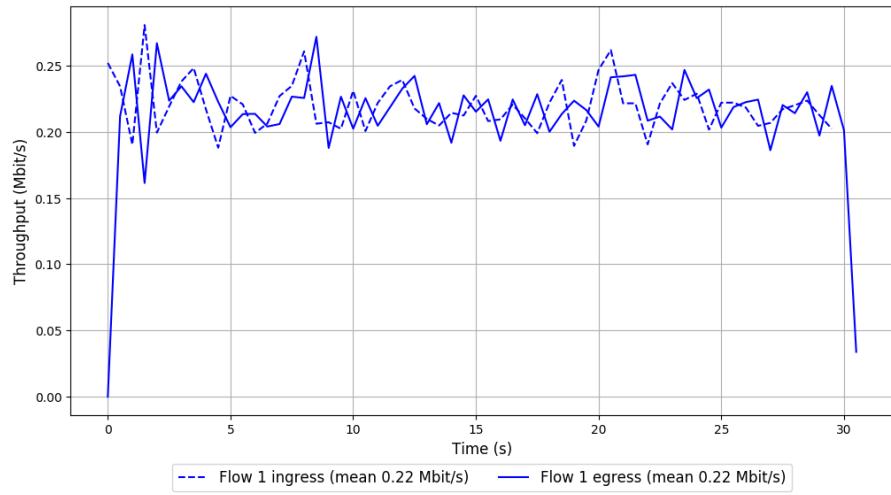


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-03-26 20:20:32
End at: 2019-03-26 20:21:02
Local clock offset: -14.86 ms
Remote clock offset: -1.391 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.246 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.246 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

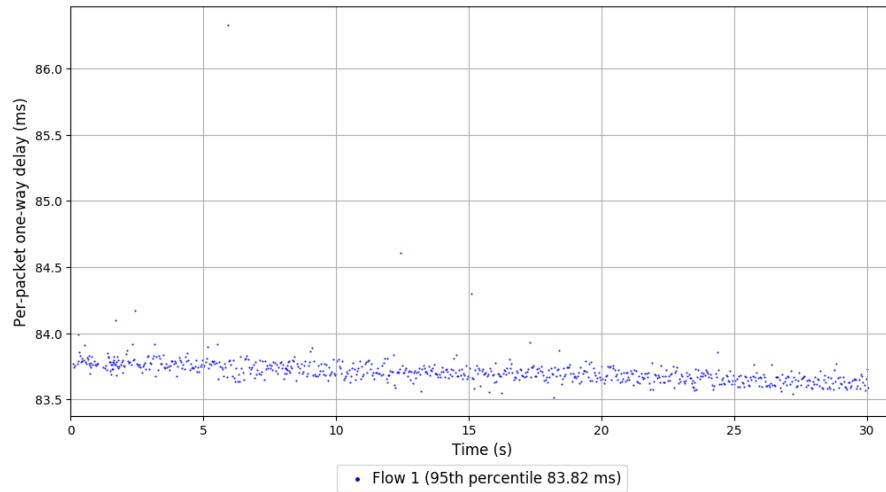
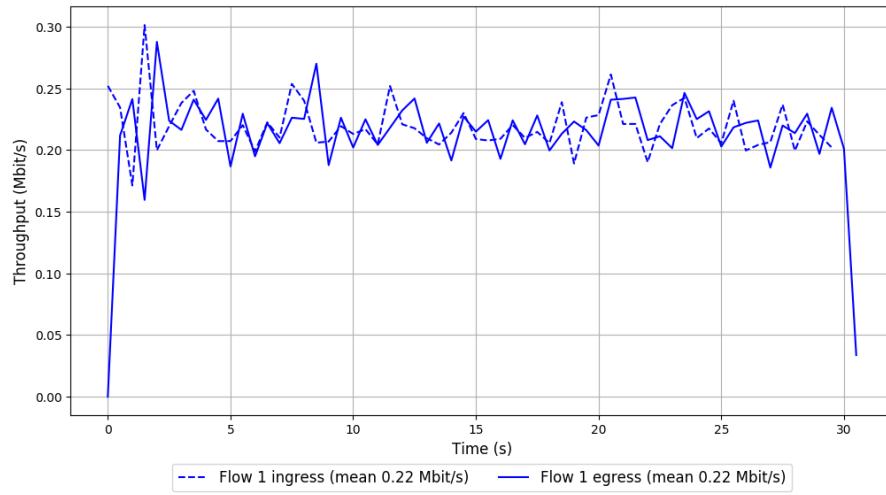


Run 2: Statistics of SCReAM

```
Start at: 2019-03-26 20:45:09
End at: 2019-03-26 20:45:39
Local clock offset: -13.268 ms
Remote clock offset: 3.042 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.820 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

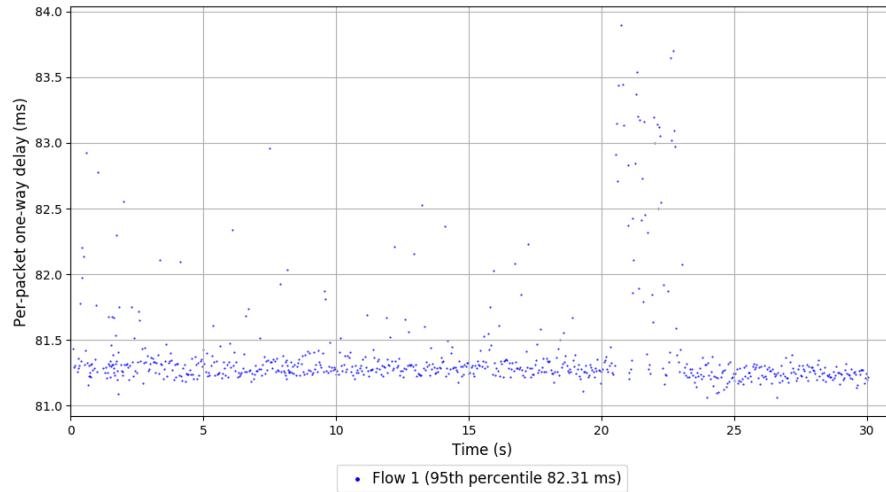
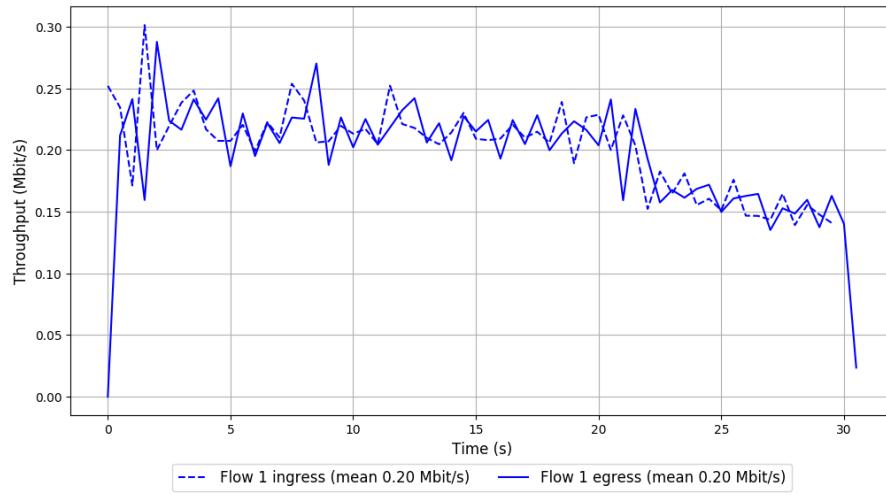


Run 3: Statistics of SCReAM

```
Start at: 2019-03-26 21:09:46
End at: 2019-03-26 21:10:16
Local clock offset: -9.5 ms
Remote clock offset: 1.275 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 82.313 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 82.313 ms
Loss rate: 0.57%
```

Run 3: Report of SCReAM — Data Link

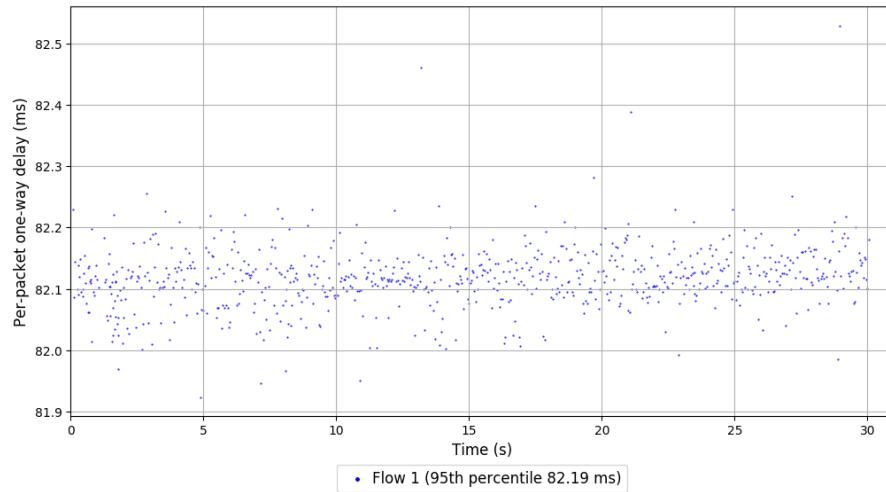
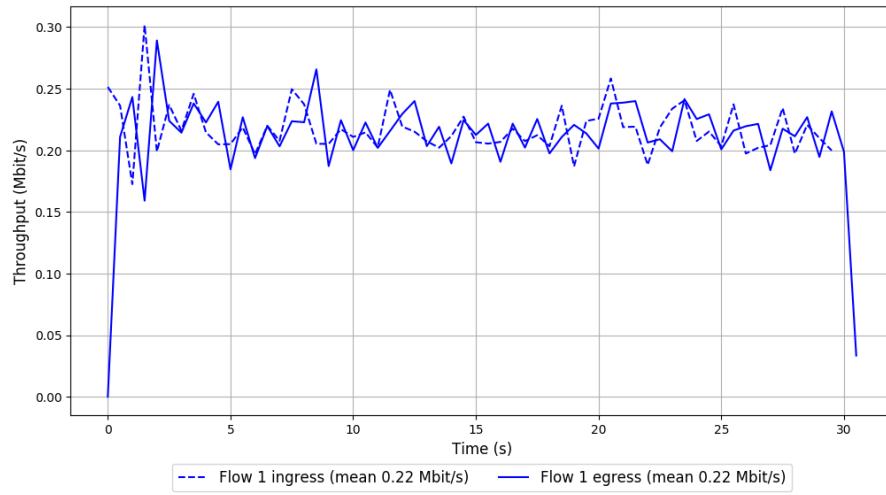


Run 4: Statistics of SCReAM

```
Start at: 2019-03-26 21:34:23
End at: 2019-03-26 21:34:53
Local clock offset: -5.14 ms
Remote clock offset: 1.567 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.193 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

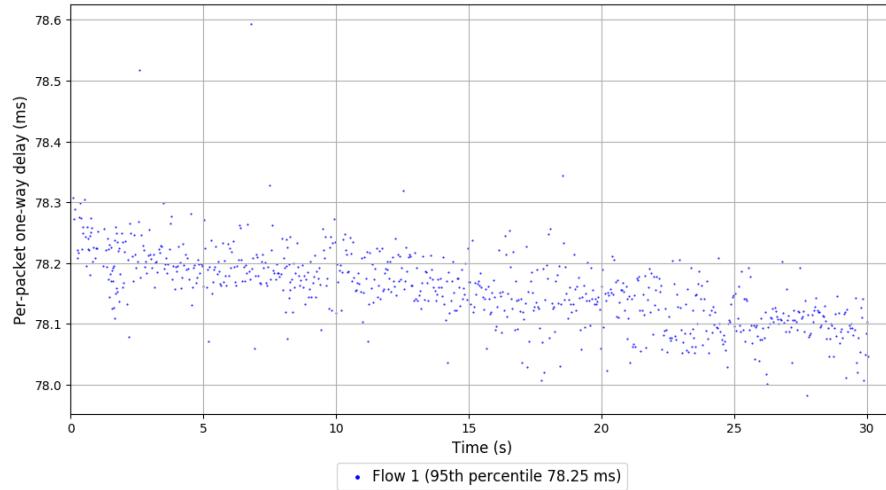
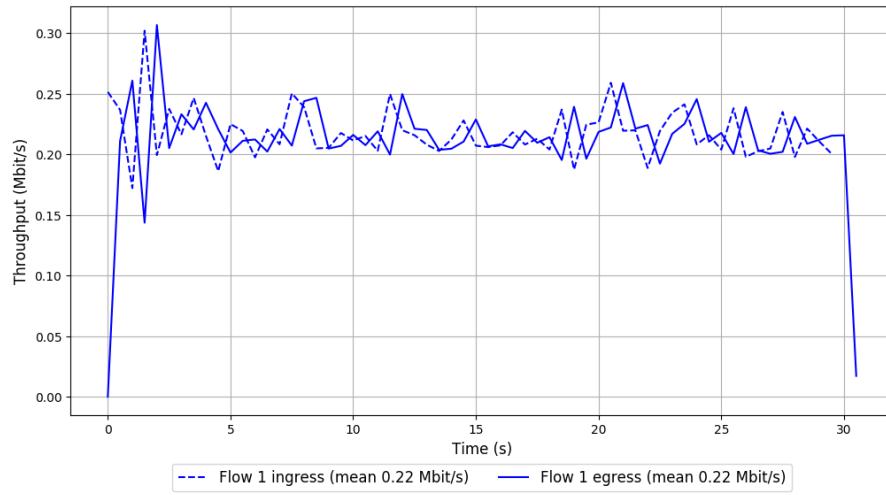


Run 5: Statistics of SCReAM

```
Start at: 2019-03-26 21:59:01
End at: 2019-03-26 21:59:31
Local clock offset: -6.53 ms
Remote clock offset: 1.615 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.249 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.249 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

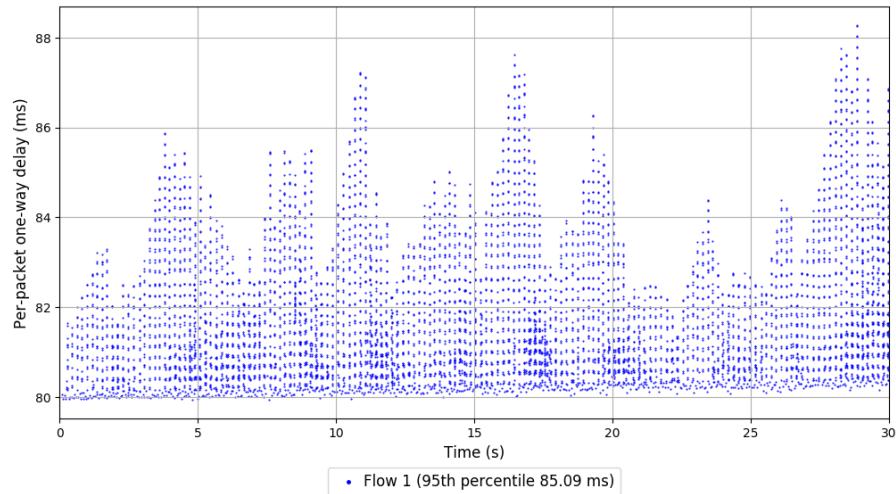
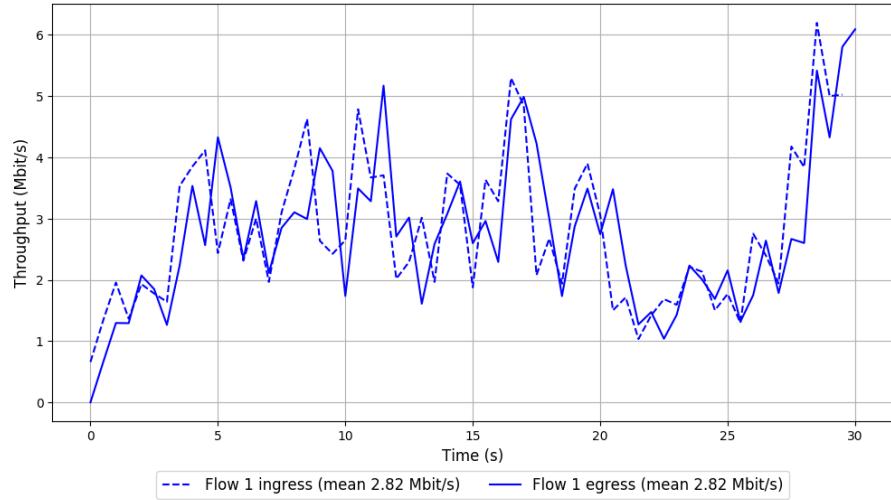


Run 1: Statistics of Sprout

```
Start at: 2019-03-26 20:18:11
End at: 2019-03-26 20:18:41
Local clock offset: -16.364 ms
Remote clock offset: -1.492 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.82 Mbit/s
95th percentile per-packet one-way delay: 85.088 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.82 Mbit/s
95th percentile per-packet one-way delay: 85.088 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

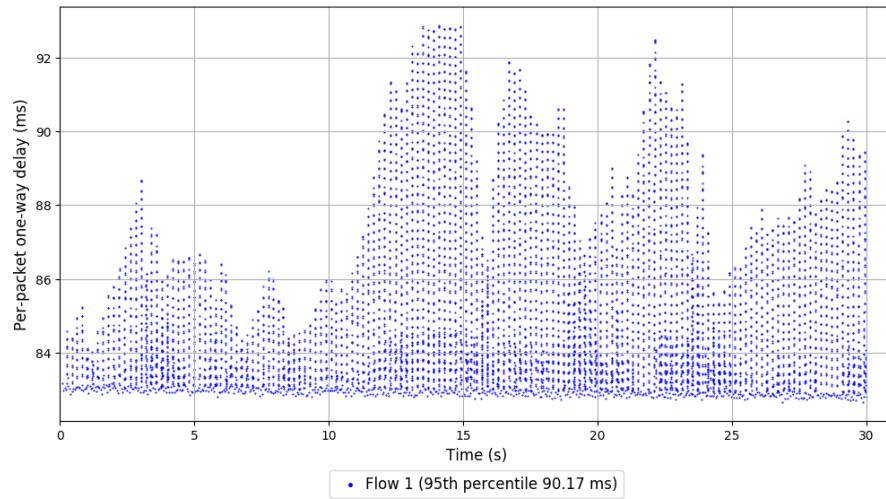
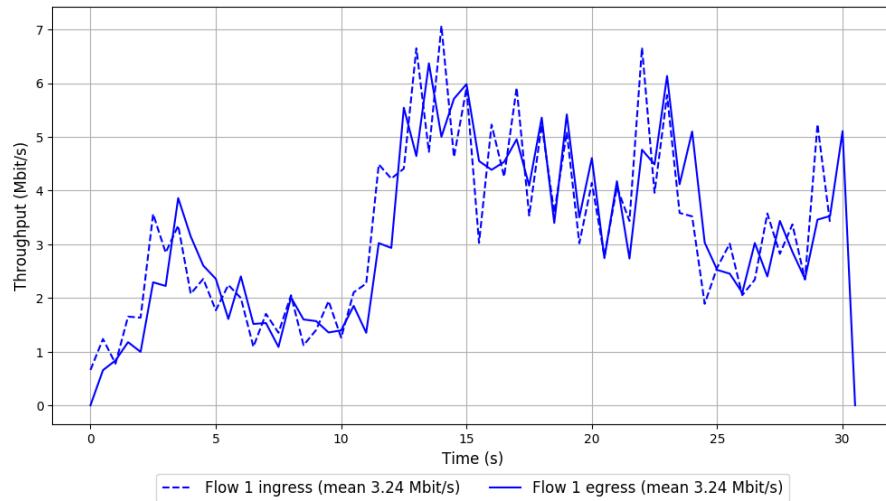


Run 2: Statistics of Sprout

```
Start at: 2019-03-26 20:42:49
End at: 2019-03-26 20:43:19
Local clock offset: -12.889 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 90.174 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 90.174 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

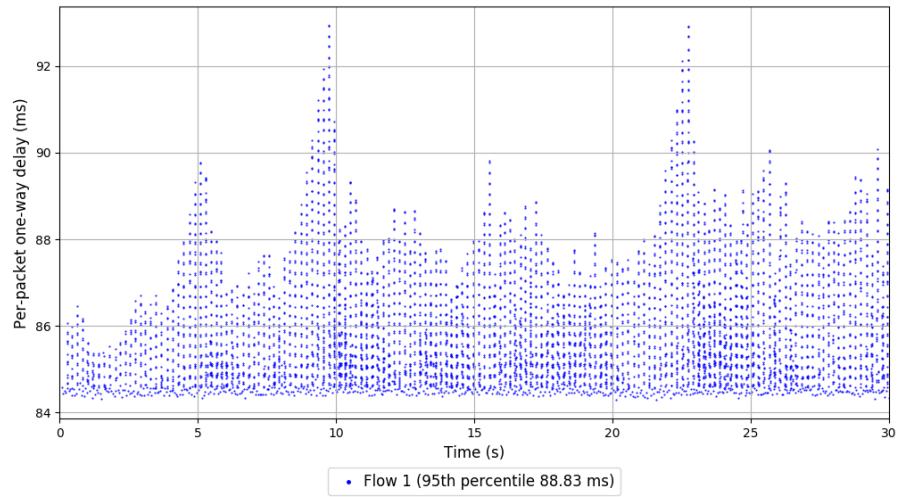
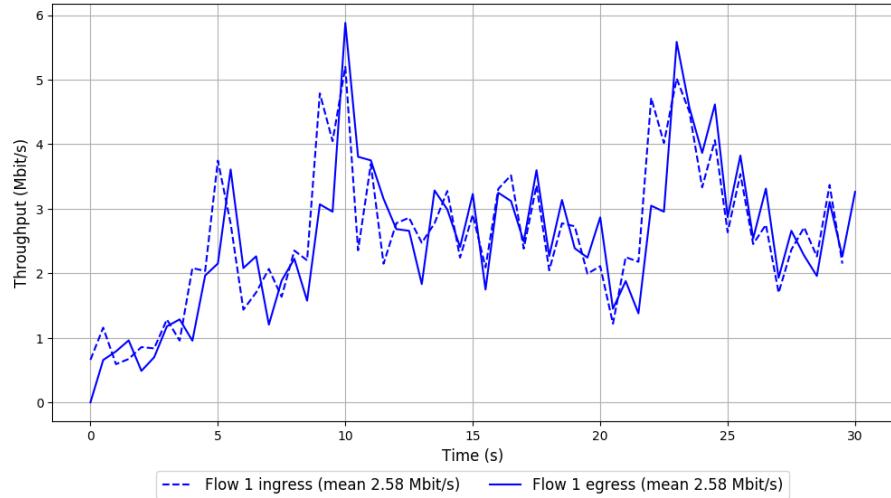


Run 3: Statistics of Sprout

```
Start at: 2019-03-26 21:07:25
End at: 2019-03-26 21:07:55
Local clock offset: -9.383 ms
Remote clock offset: 3.967 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 88.831 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 88.831 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

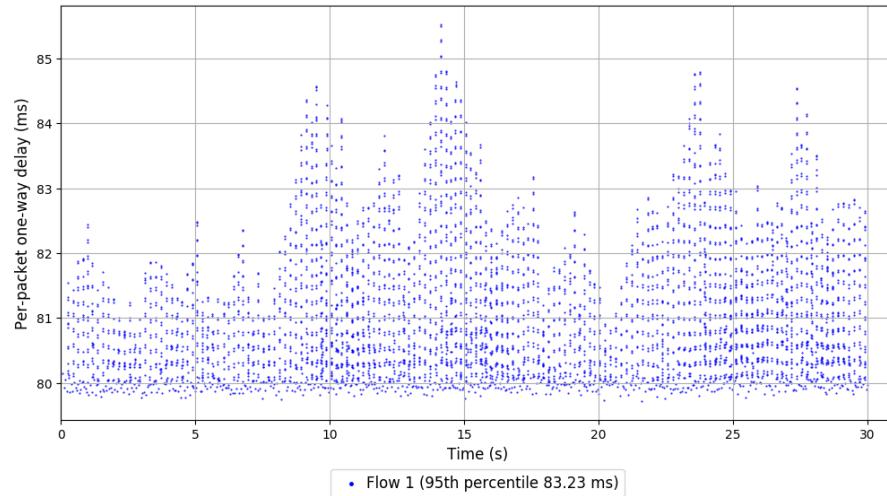
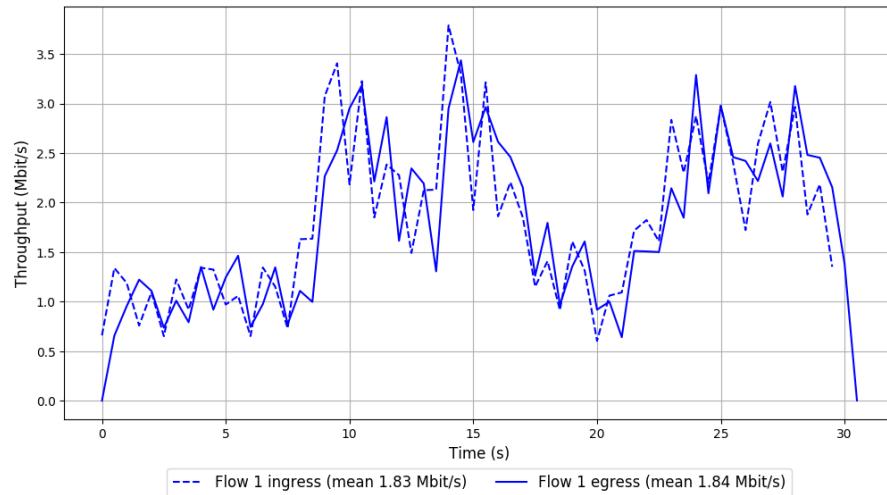


Run 4: Statistics of Sprout

```
Start at: 2019-03-26 21:32:02
End at: 2019-03-26 21:32:32
Local clock offset: -4.623 ms
Remote clock offset: 0.185 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 83.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 83.227 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

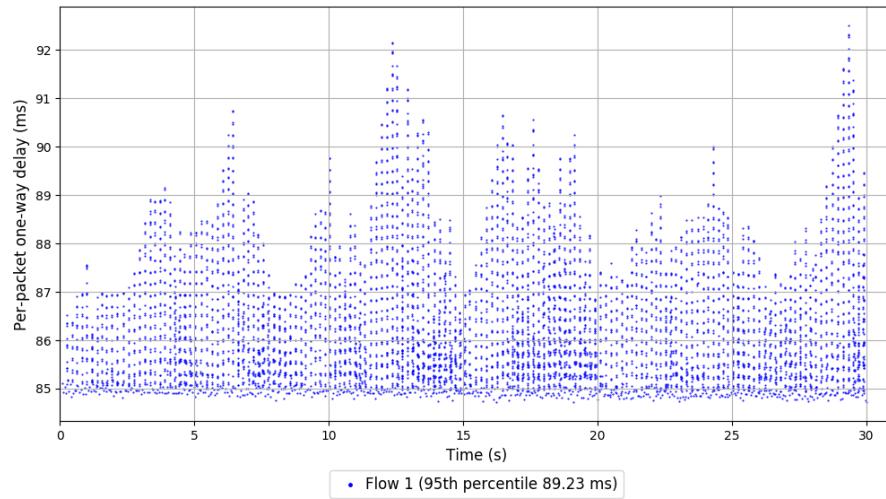
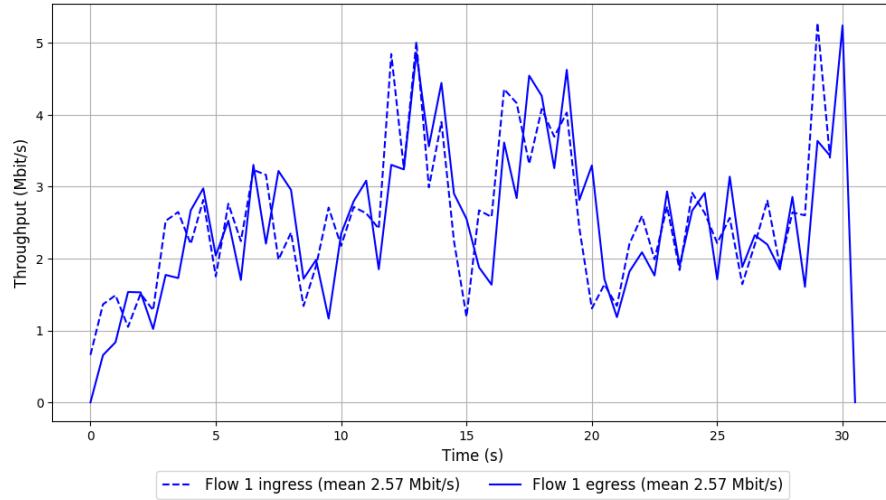


Run 5: Statistics of Sprout

```
Start at: 2019-03-26 21:56:41
End at: 2019-03-26 21:57:11
Local clock offset: -6.319 ms
Remote clock offset: 6.407 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 89.231 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 89.231 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

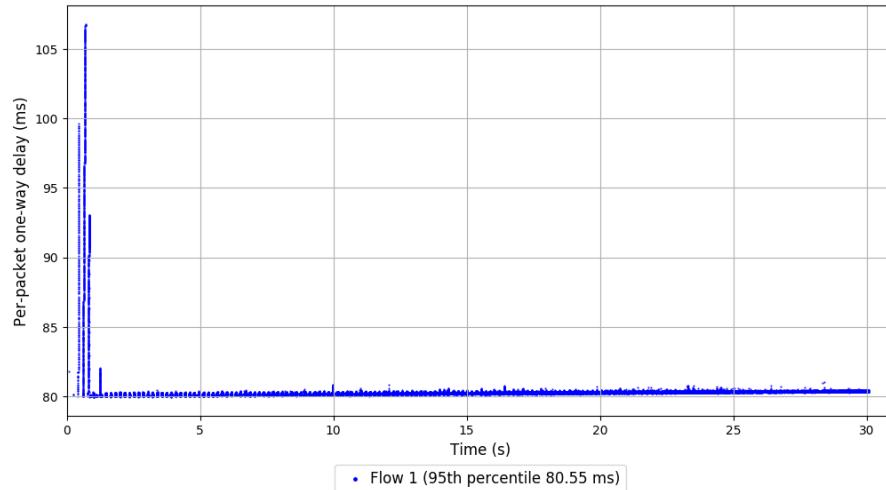
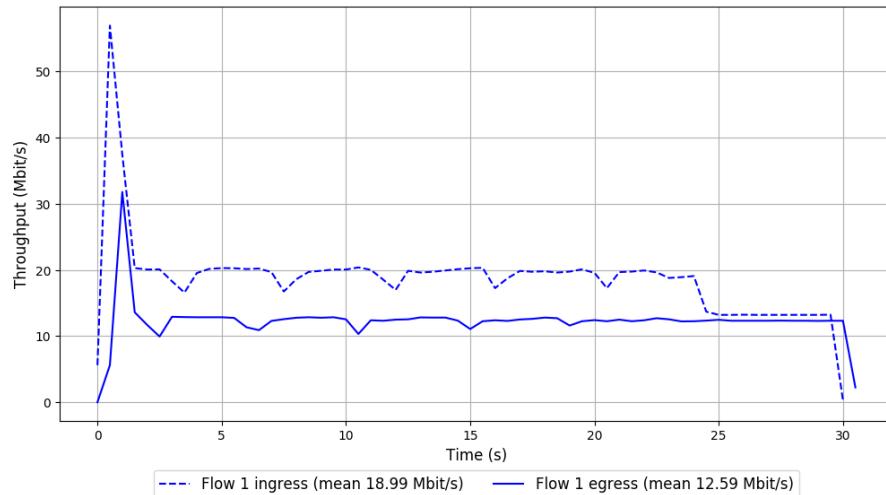


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-26 20:17:02
End at: 2019-03-26 20:17:32
Local clock offset: -16.638 ms
Remote clock offset: -0.491 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 80.546 ms
Loss rate: 33.71%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 80.546 ms
Loss rate: 33.71%
```

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

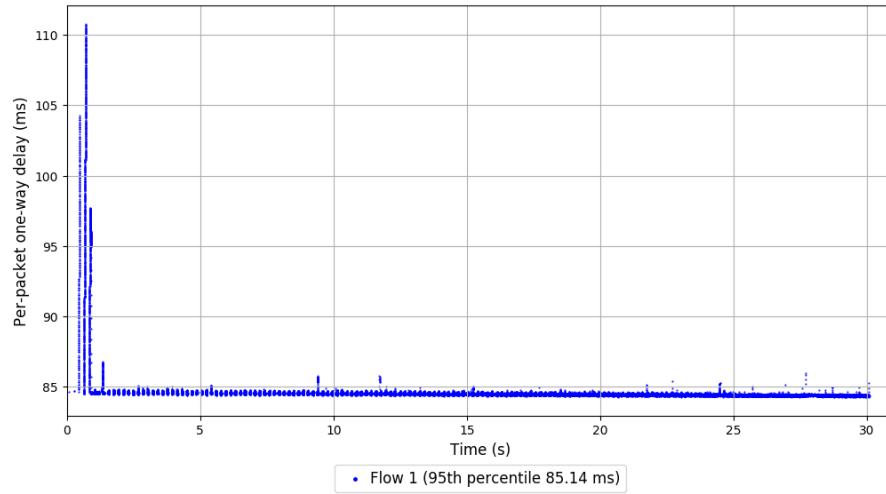
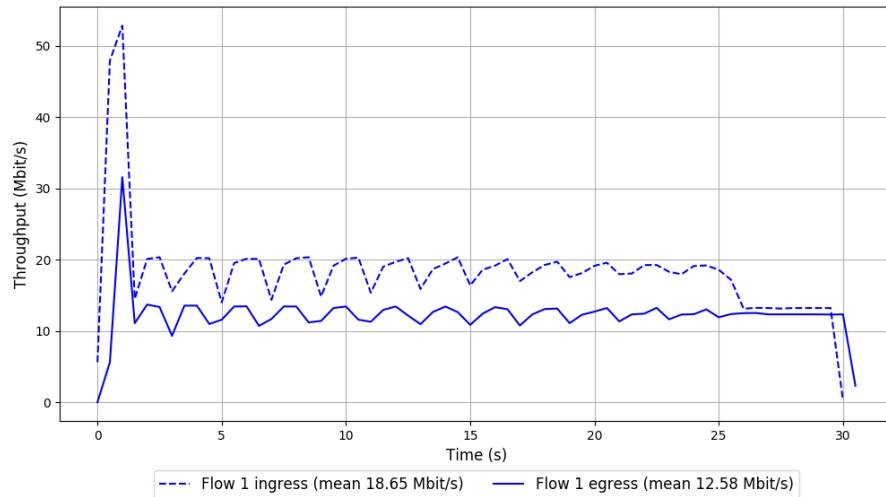


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-26 20:41:40
End at: 2019-03-26 20:42:10
Local clock offset: -13.498 ms
Remote clock offset: 2.237 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 85.139 ms
Loss rate: 32.53%
-- Flow 1:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 85.139 ms
Loss rate: 32.53%
```

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

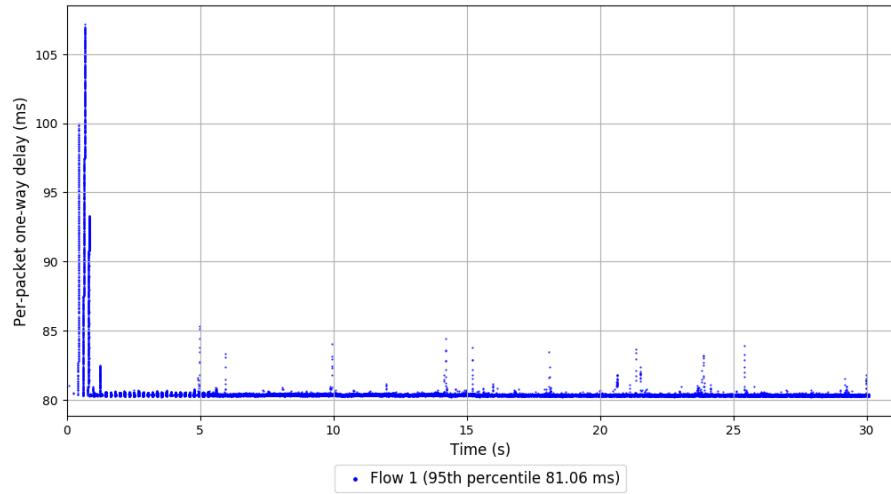
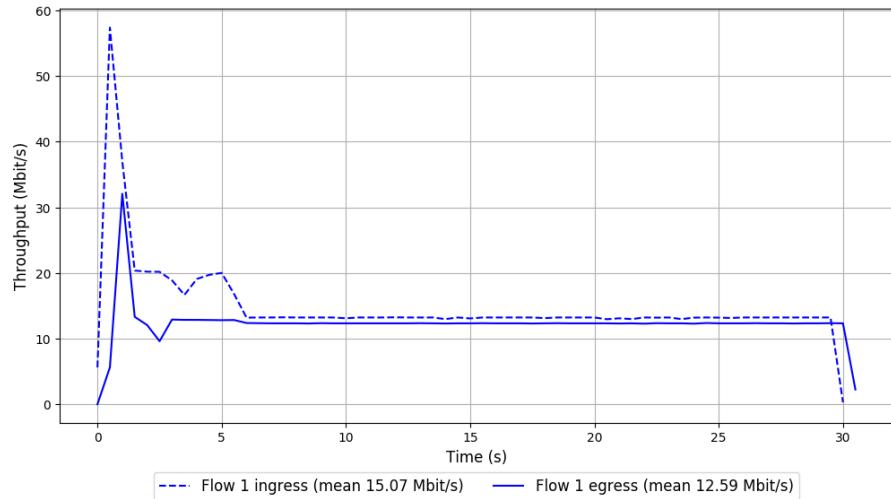


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-26 21:06:17
End at: 2019-03-26 21:06:47
Local clock offset: -10.074 ms
Remote clock offset: 1.4 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 81.062 ms
Loss rate: 16.46%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 81.062 ms
Loss rate: 16.46%
```

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

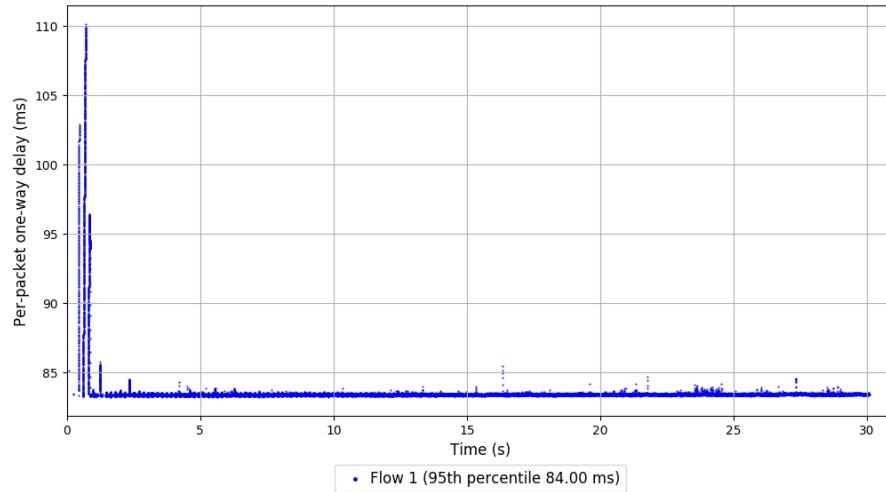
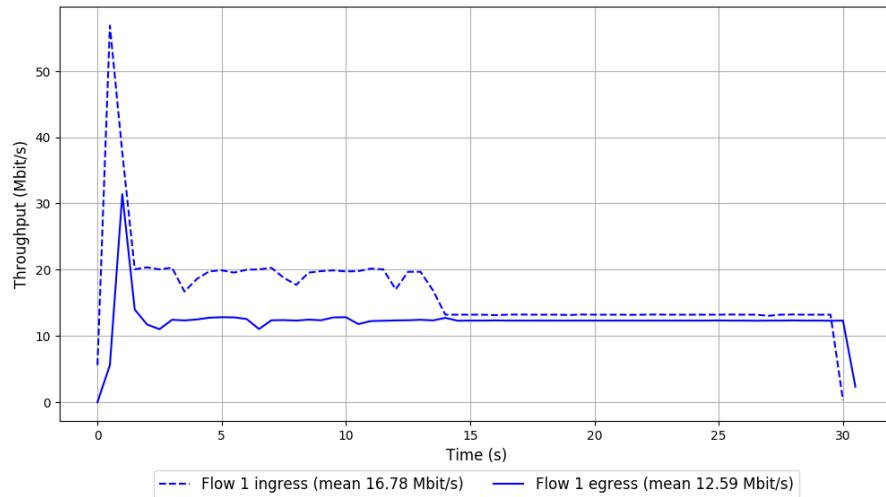


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-26 21:30:53
End at: 2019-03-26 21:31:23
Local clock offset: -4.731 ms
Remote clock offset: 5.293 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 83.996 ms
Loss rate: 24.98%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 83.996 ms
Loss rate: 24.98%
```

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

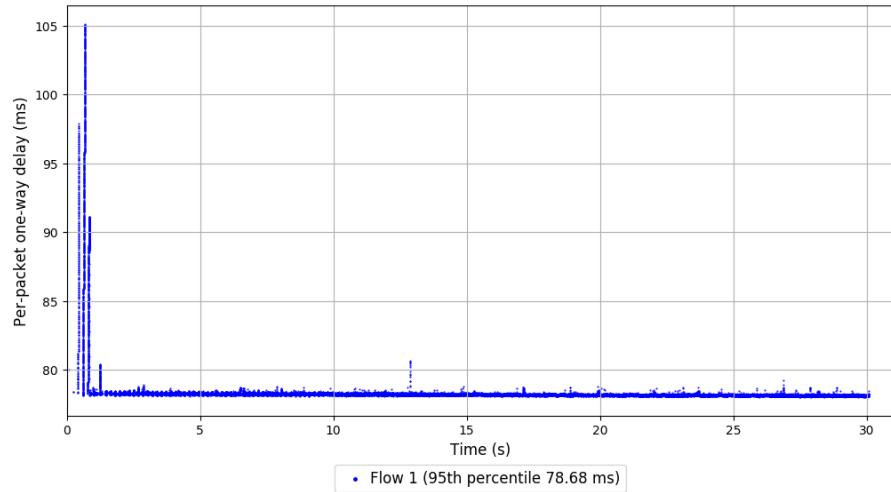
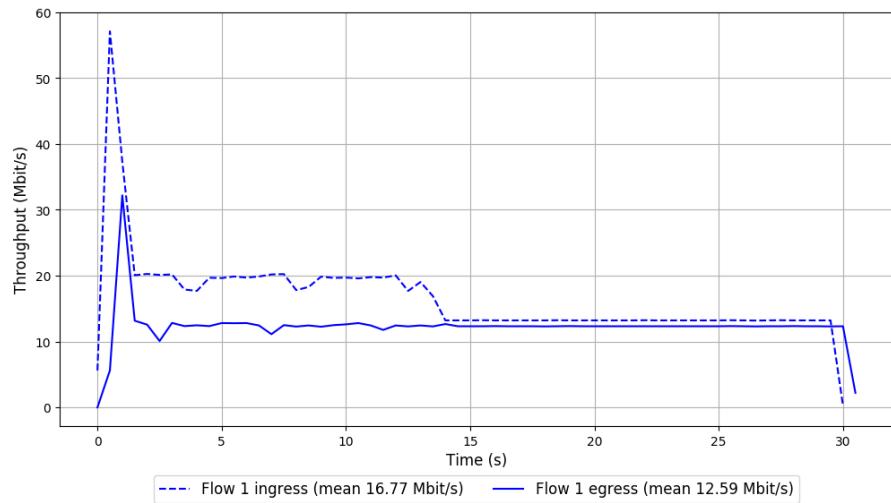


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-26 21:55:32
End at: 2019-03-26 21:56:02
Local clock offset: -6.084 ms
Remote clock offset: 1.285 ms

# Below is generated by plot.py at 2019-03-26 22:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 78.676 ms
Loss rate: 24.93%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 78.676 ms
Loss rate: 24.93%
```

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

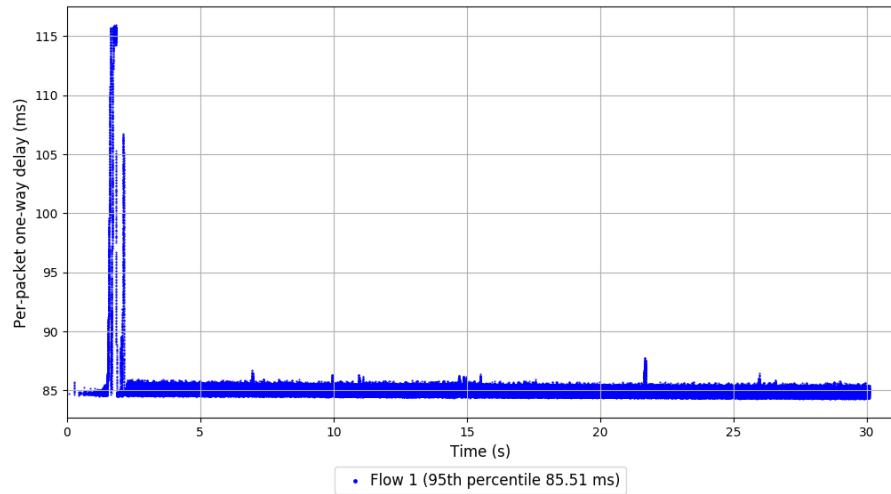
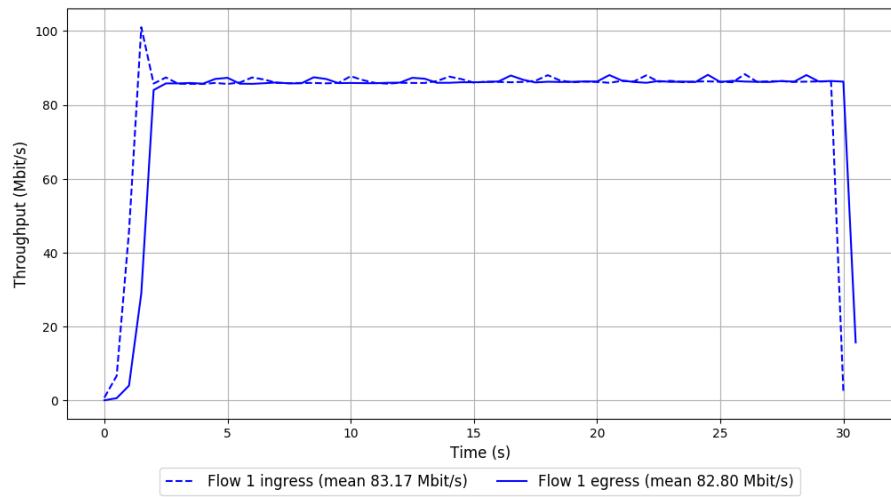


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-26 20:14:39
End at: 2019-03-26 20:15:09
Local clock offset: -16.857 ms
Remote clock offset: 2.651 ms

# Below is generated by plot.py at 2019-03-26 22:19:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.80 Mbit/s
95th percentile per-packet one-way delay: 85.510 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 82.80 Mbit/s
95th percentile per-packet one-way delay: 85.510 ms
Loss rate: 0.45%
```

Run 1: Report of TCP Vegas — Data Link

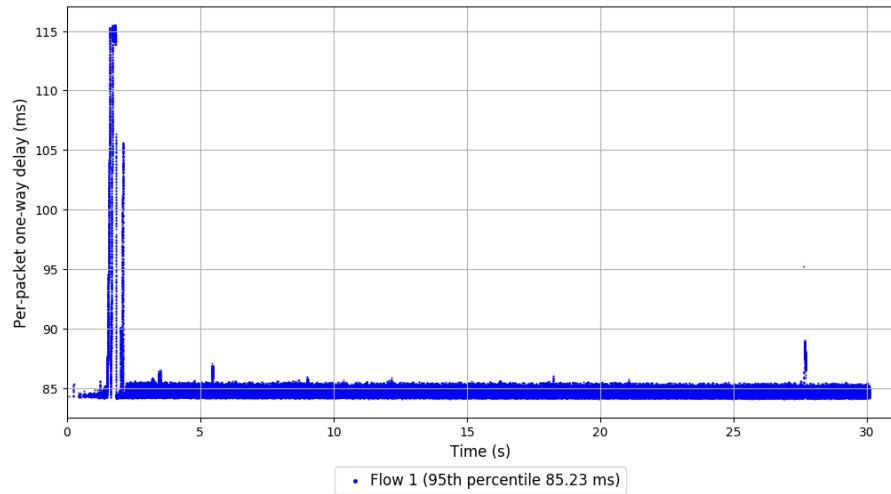
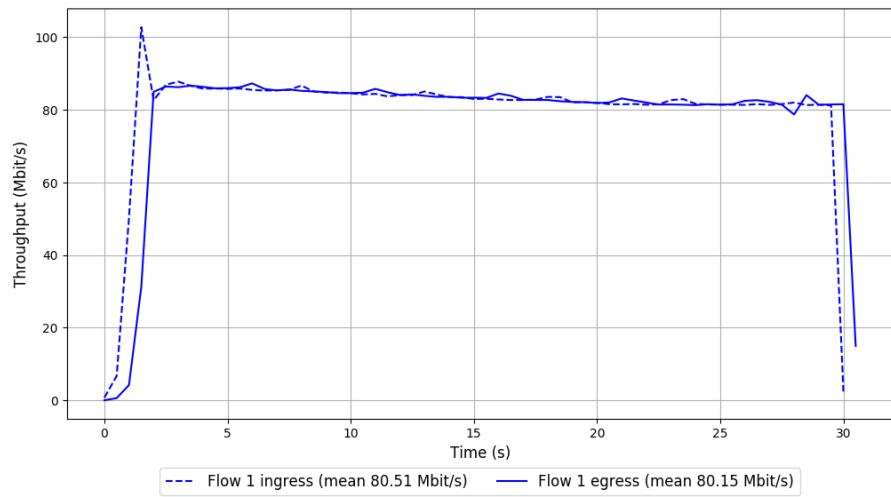


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-26 20:39:17
End at: 2019-03-26 20:39:47
Local clock offset: -13.127 ms
Remote clock offset: 3.36 ms

# Below is generated by plot.py at 2019-03-26 22:19:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.15 Mbit/s
95th percentile per-packet one-way delay: 85.233 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 80.15 Mbit/s
95th percentile per-packet one-way delay: 85.233 ms
Loss rate: 0.45%
```

Run 2: Report of TCP Vegas — Data Link

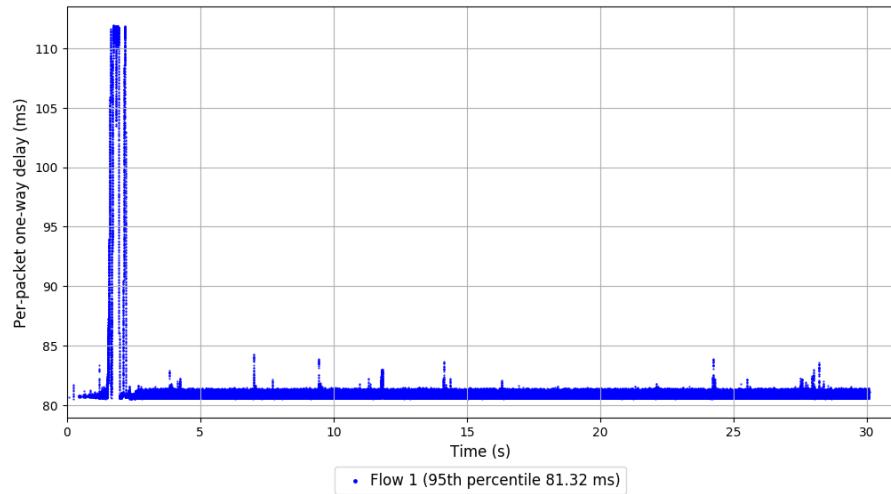
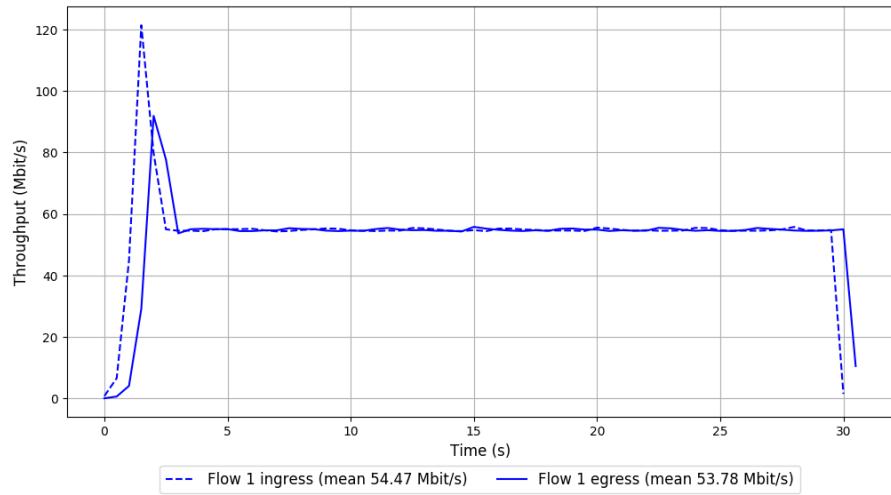


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-26 21:03:54
End at: 2019-03-26 21:04:24
Local clock offset: -9.336 ms
Remote clock offset: 0.289 ms

# Below is generated by plot.py at 2019-03-26 22:19:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.78 Mbit/s
95th percentile per-packet one-way delay: 81.323 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 53.78 Mbit/s
95th percentile per-packet one-way delay: 81.323 ms
Loss rate: 1.27%
```

Run 3: Report of TCP Vegas — Data Link

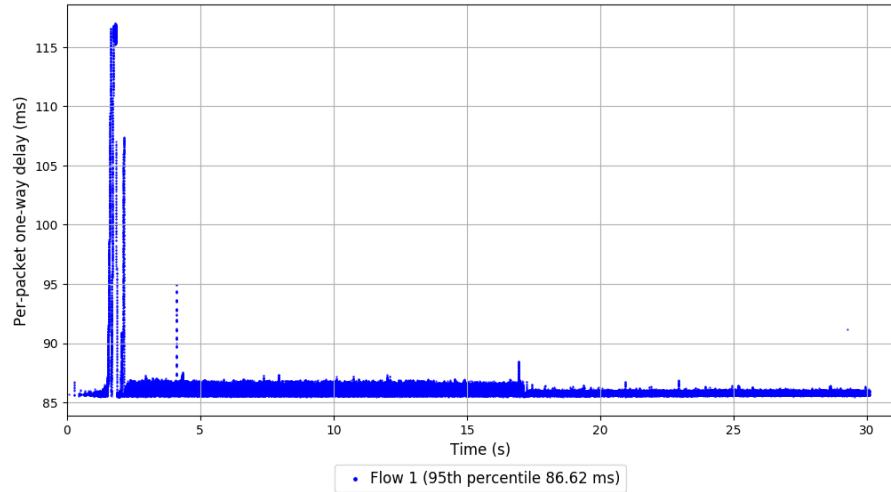
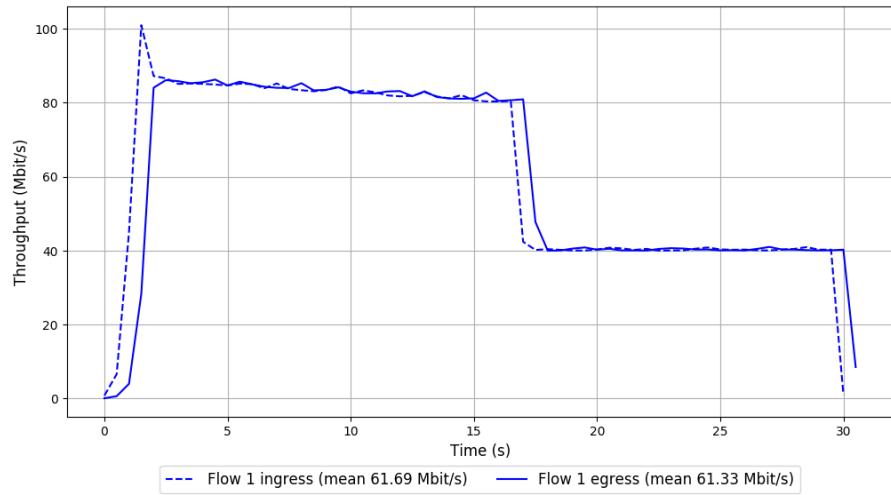


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-26 21:28:31
End at: 2019-03-26 21:29:01
Local clock offset: -5.042 ms
Remote clock offset: 5.381 ms

# Below is generated by plot.py at 2019-03-26 22:19:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.33 Mbit/s
95th percentile per-packet one-way delay: 86.619 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 61.33 Mbit/s
95th percentile per-packet one-way delay: 86.619 ms
Loss rate: 0.60%
```

Run 4: Report of TCP Vegas — Data Link

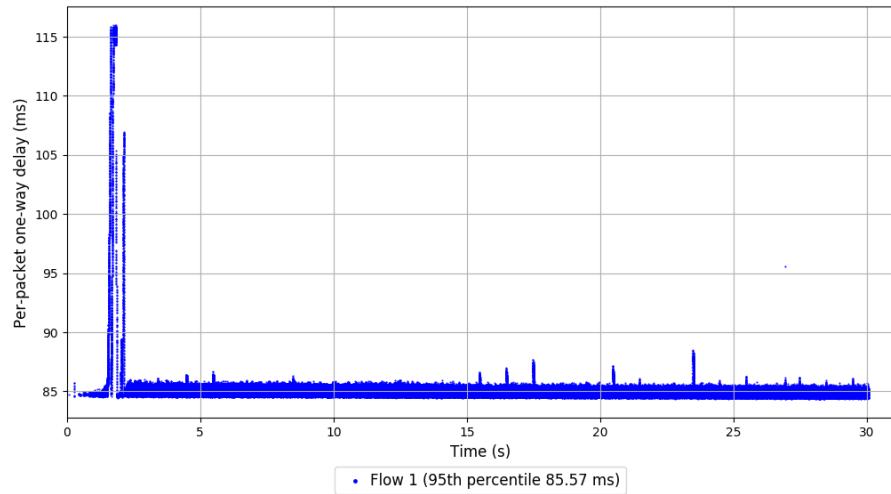
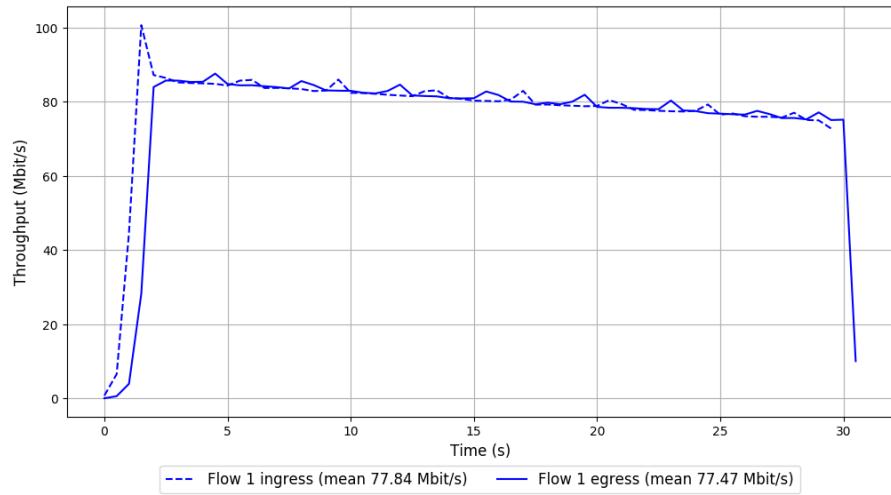


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-26 21:53:08
End at: 2019-03-26 21:53:38
Local clock offset: -5.706 ms
Remote clock offset: 4.931 ms

# Below is generated by plot.py at 2019-03-26 22:19:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.47 Mbit/s
95th percentile per-packet one-way delay: 85.566 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 77.47 Mbit/s
95th percentile per-packet one-way delay: 85.566 ms
Loss rate: 0.48%
```

Run 5: Report of TCP Vegas — Data Link

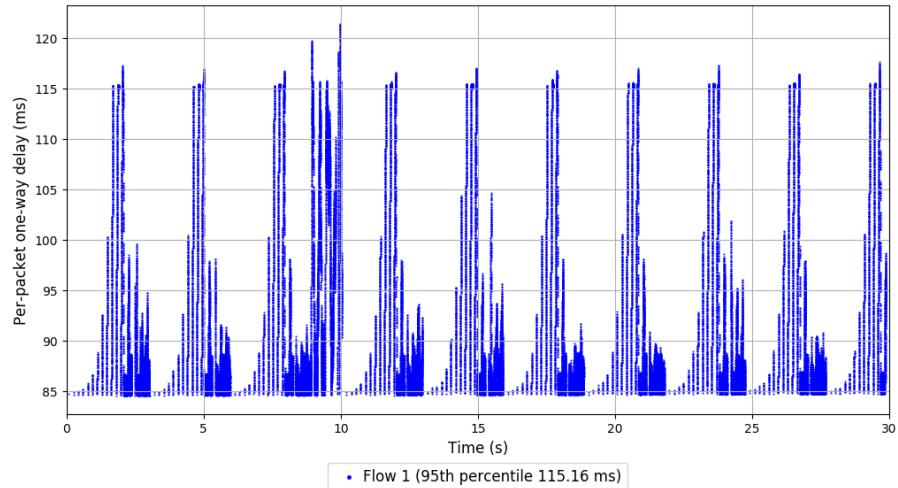
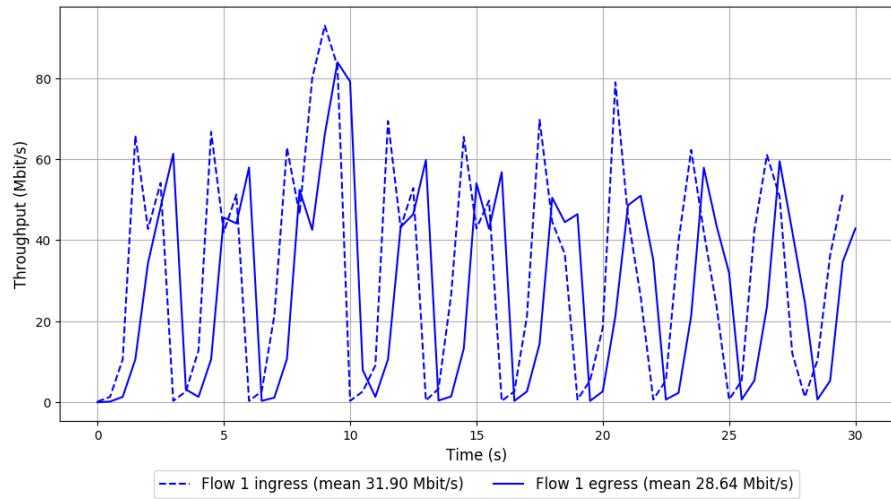


Run 1: Statistics of Verus

```
Start at: 2019-03-26 20:21:39
End at: 2019-03-26 20:22:09
Local clock offset: -14.361 ms
Remote clock offset: 3.734 ms

# Below is generated by plot.py at 2019-03-26 22:19:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.64 Mbit/s
95th percentile per-packet one-way delay: 115.156 ms
Loss rate: 10.20%
-- Flow 1:
Average throughput: 28.64 Mbit/s
95th percentile per-packet one-way delay: 115.156 ms
Loss rate: 10.20%
```

Run 1: Report of Verus — Data Link

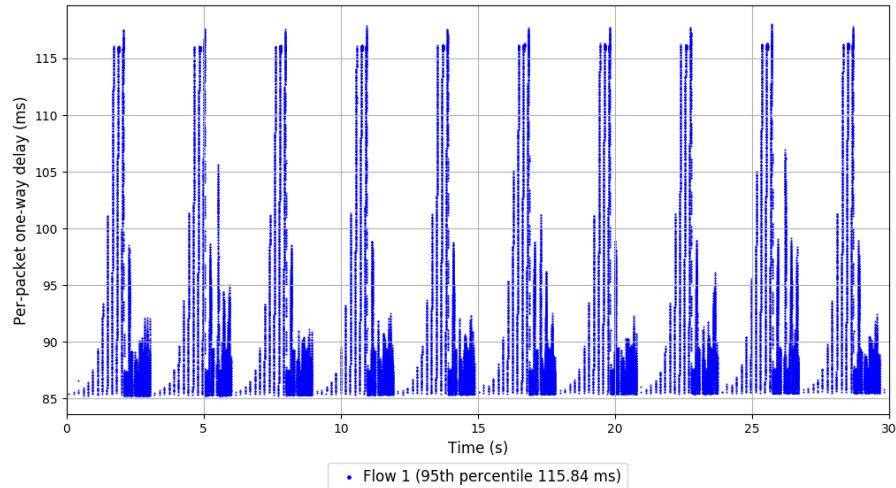
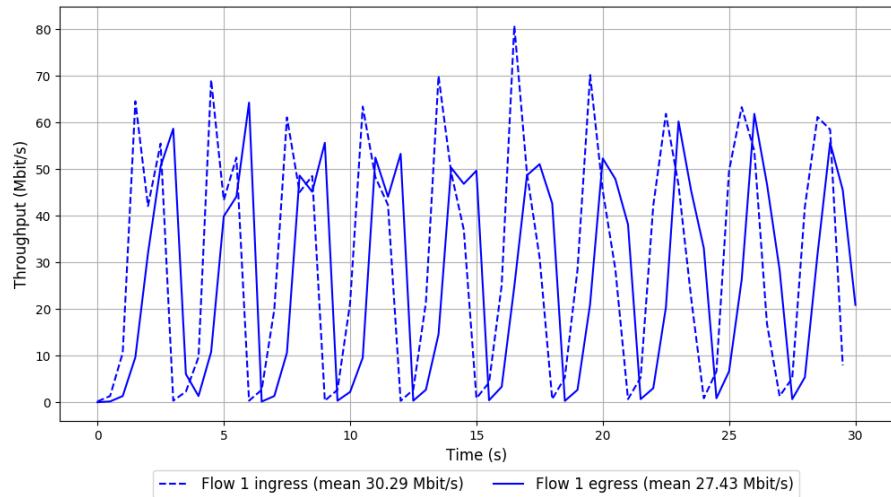


Run 2: Statistics of Verus

```
Start at: 2019-03-26 20:46:17
End at: 2019-03-26 20:46:47
Local clock offset: -13.455 ms
Remote clock offset: 4.366 ms

# Below is generated by plot.py at 2019-03-26 22:19:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.43 Mbit/s
95th percentile per-packet one-way delay: 115.838 ms
Loss rate: 9.44%
-- Flow 1:
Average throughput: 27.43 Mbit/s
95th percentile per-packet one-way delay: 115.838 ms
Loss rate: 9.44%
```

Run 2: Report of Verus — Data Link

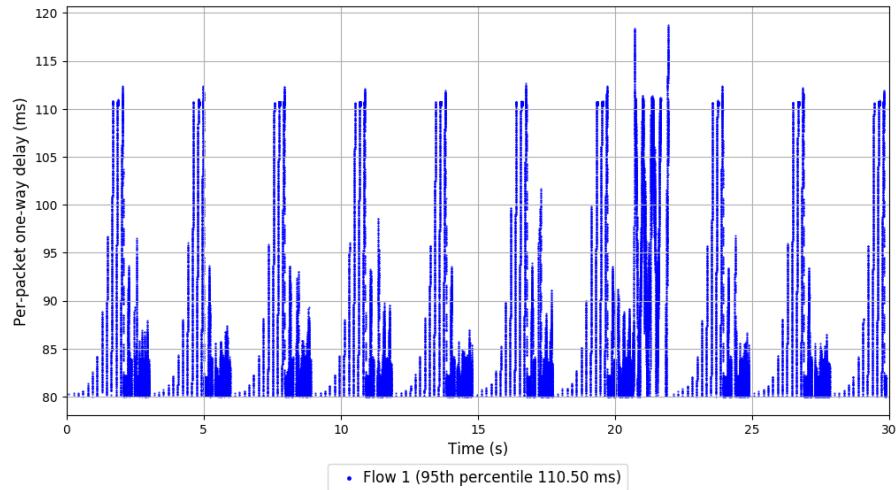
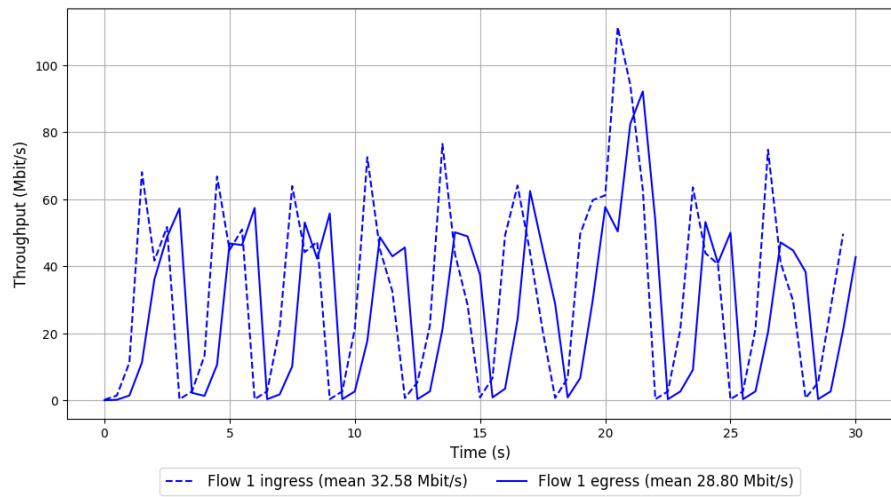


Run 3: Statistics of Verus

```
Start at: 2019-03-26 21:10:53
End at: 2019-03-26 21:11:23
Local clock offset: -10.337 ms
Remote clock offset: 1.239 ms

# Below is generated by plot.py at 2019-03-26 22:19:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.80 Mbit/s
95th percentile per-packet one-way delay: 110.501 ms
Loss rate: 11.61%
-- Flow 1:
Average throughput: 28.80 Mbit/s
95th percentile per-packet one-way delay: 110.501 ms
Loss rate: 11.61%
```

Run 3: Report of Verus — Data Link

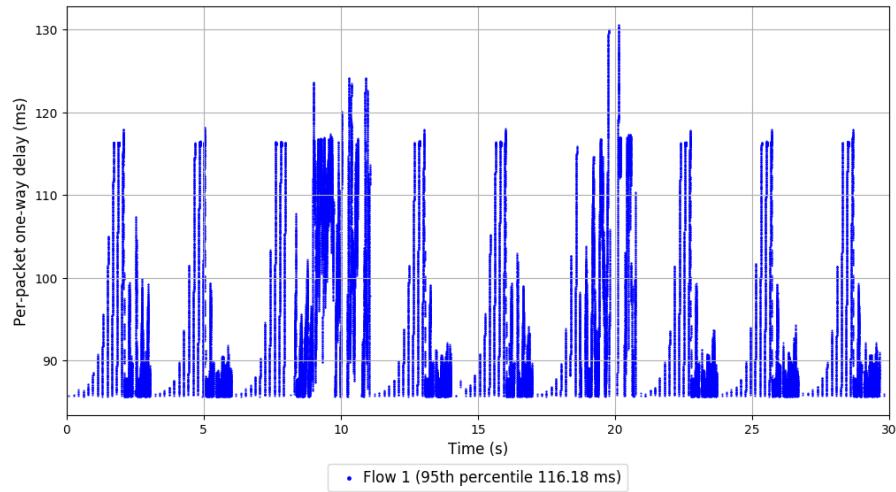
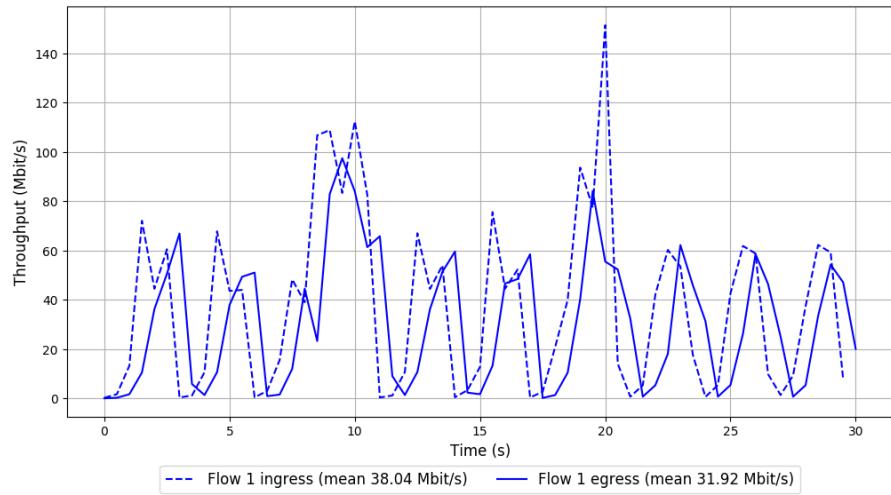


Run 4: Statistics of Verus

```
Start at: 2019-03-26 21:35:30
End at: 2019-03-26 21:36:00
Local clock offset: -5.038 ms
Remote clock offset: 5.29 ms

# Below is generated by plot.py at 2019-03-26 22:19:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.92 Mbit/s
95th percentile per-packet one-way delay: 116.181 ms
Loss rate: 16.11%
-- Flow 1:
Average throughput: 31.92 Mbit/s
95th percentile per-packet one-way delay: 116.181 ms
Loss rate: 16.11%
```

Run 4: Report of Verus — Data Link

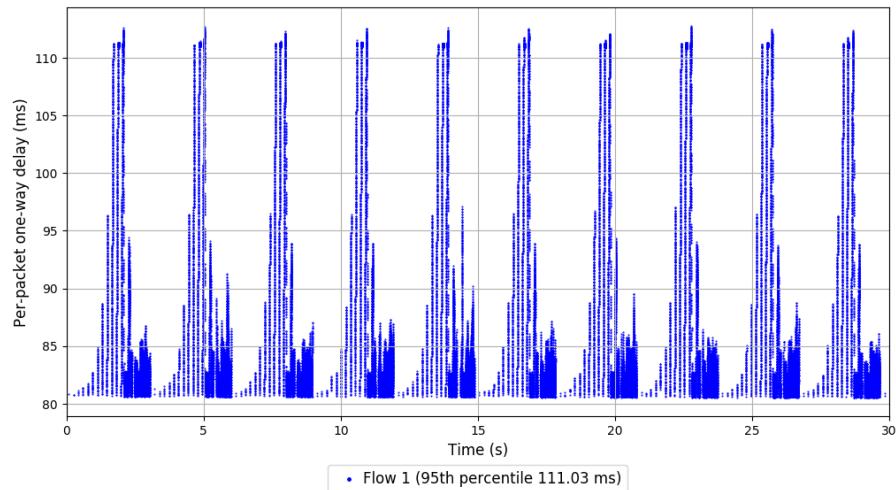
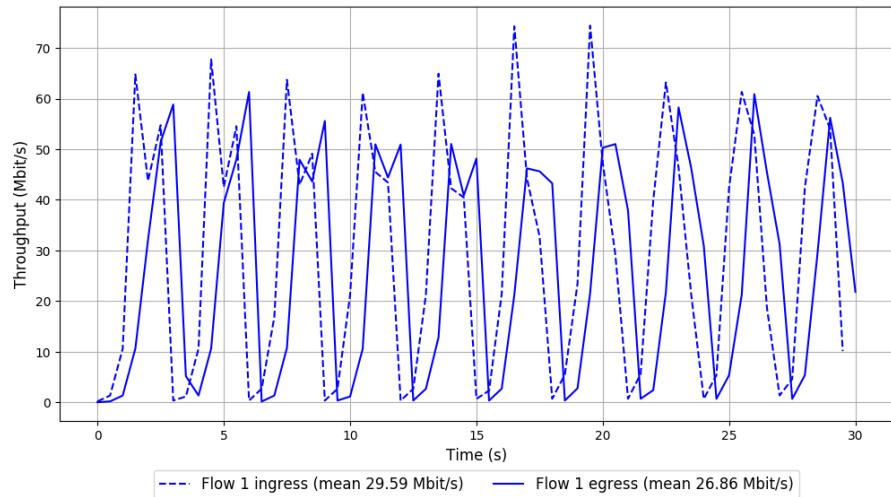


Run 5: Statistics of Verus

```
Start at: 2019-03-26 22:00:09
End at: 2019-03-26 22:00:39
Local clock offset: -7.465 ms
Remote clock offset: 1.754 ms

# Below is generated by plot.py at 2019-03-26 22:19:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.86 Mbit/s
95th percentile per-packet one-way delay: 111.027 ms
Loss rate: 9.23%
-- Flow 1:
Average throughput: 26.86 Mbit/s
95th percentile per-packet one-way delay: 111.027 ms
Loss rate: 9.23%
```

Run 5: Report of Verus — Data Link

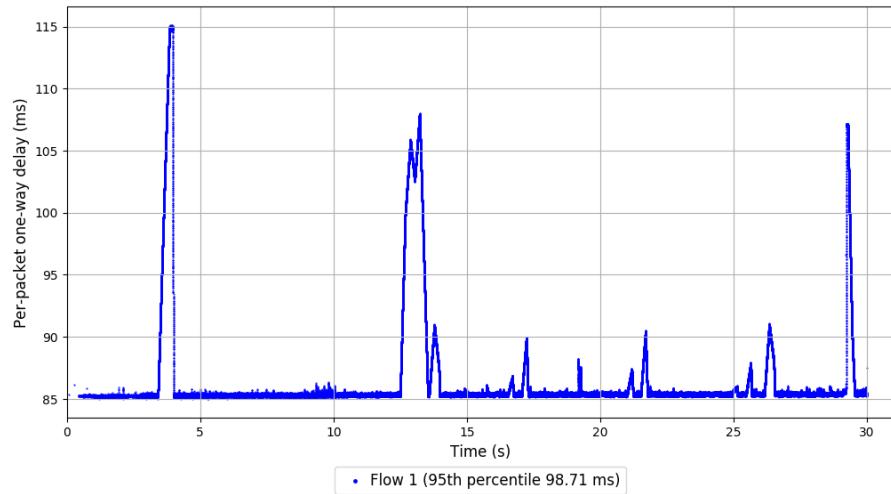
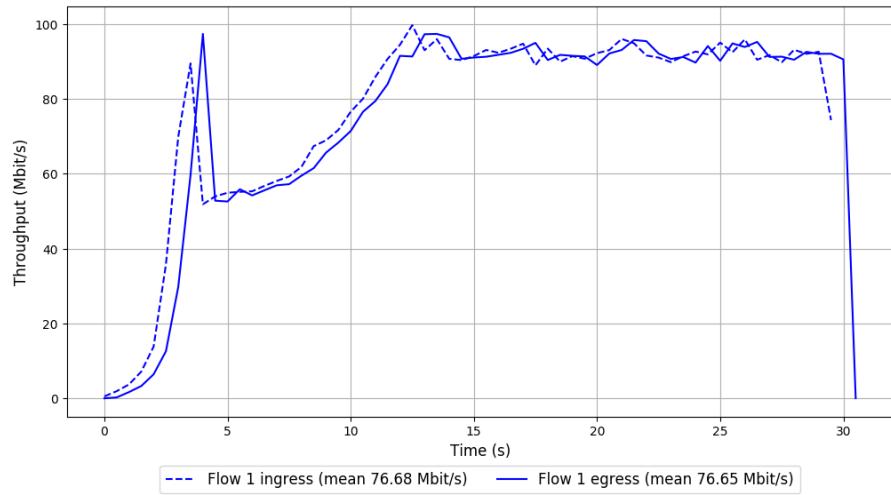


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-03-26 20:26:22
End at: 2019-03-26 20:26:52
Local clock offset: -12.894 ms
Remote clock offset: 4.637 ms

# Below is generated by plot.py at 2019-03-26 22:19:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.65 Mbit/s
95th percentile per-packet one-way delay: 98.706 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 76.65 Mbit/s
95th percentile per-packet one-way delay: 98.706 ms
Loss rate: 0.04%
```

Run 1: Report of PCC-Vivace — Data Link

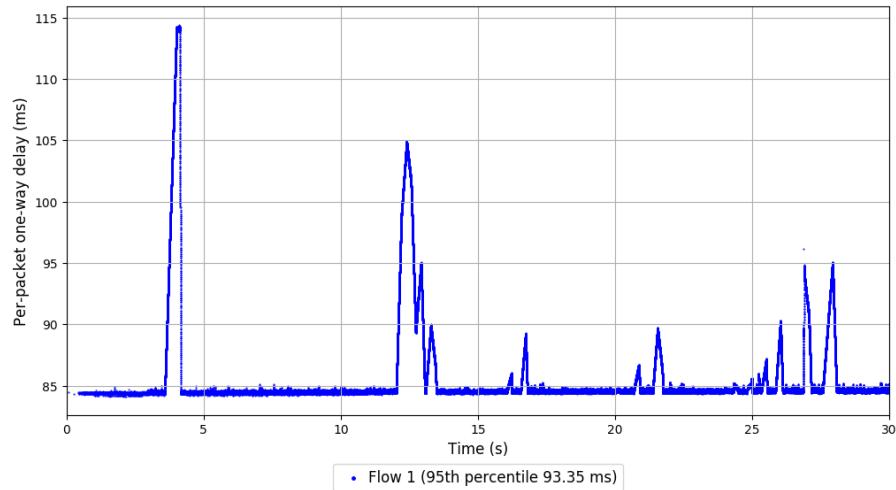
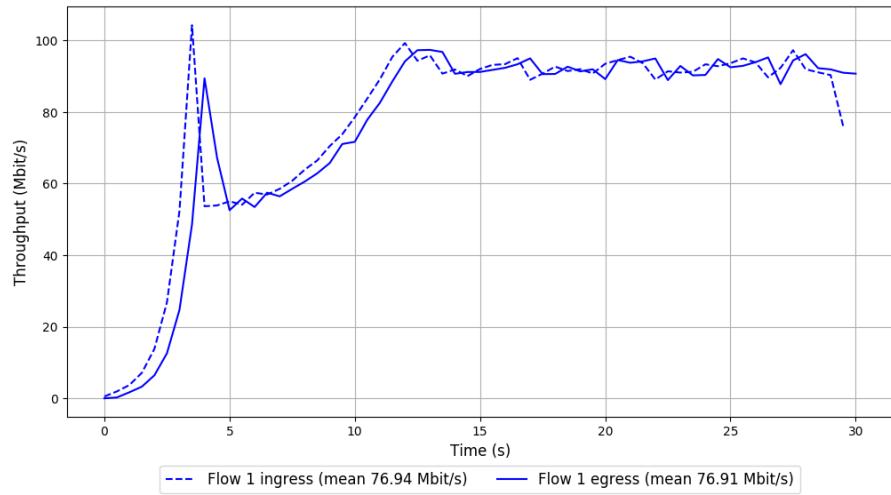


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-26 20:50:59
End at: 2019-03-26 20:51:29
Local clock offset: -11.011 ms
Remote clock offset: 5.85 ms

# Below is generated by plot.py at 2019-03-26 22:19:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.91 Mbit/s
95th percentile per-packet one-way delay: 93.349 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 76.91 Mbit/s
95th percentile per-packet one-way delay: 93.349 ms
Loss rate: 0.04%
```

Run 2: Report of PCC-Vivace — Data Link

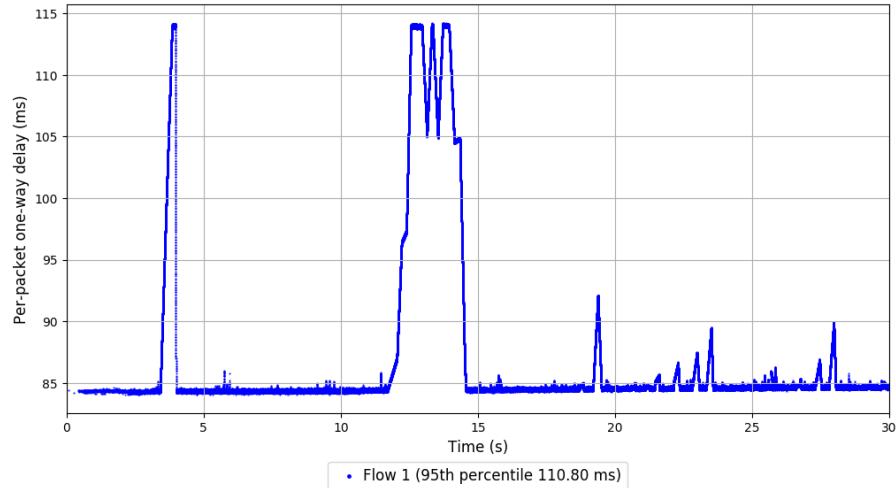
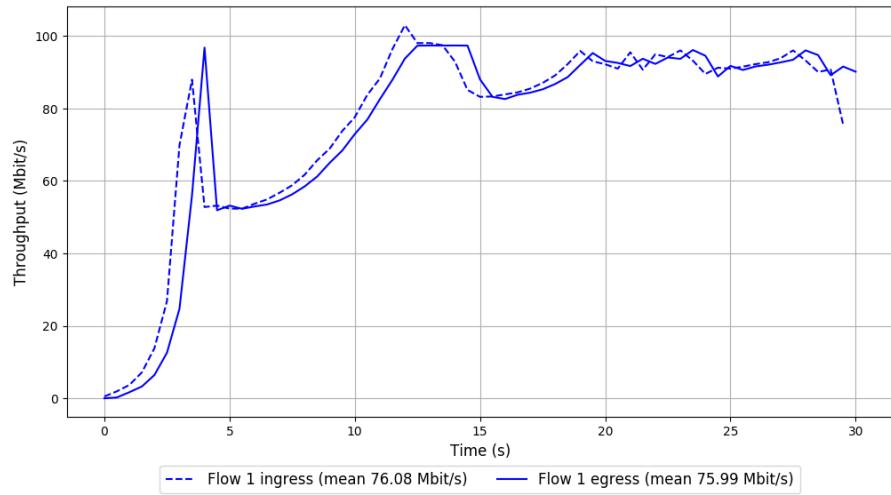


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-26 21:15:36
End at: 2019-03-26 21:16:06
Local clock offset: -10.79 ms
Remote clock offset: 4.957 ms

# Below is generated by plot.py at 2019-03-26 22:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 110.799 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 110.799 ms
Loss rate: 0.12%
```

Run 3: Report of PCC-Vivace — Data Link

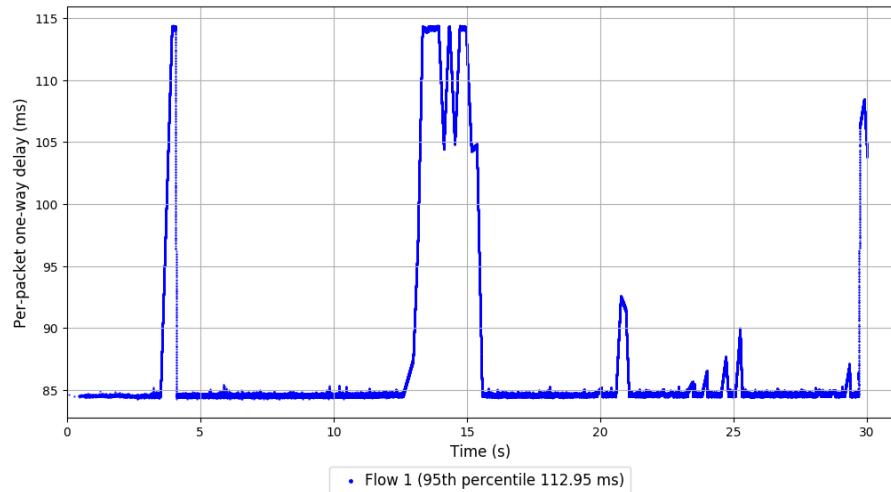
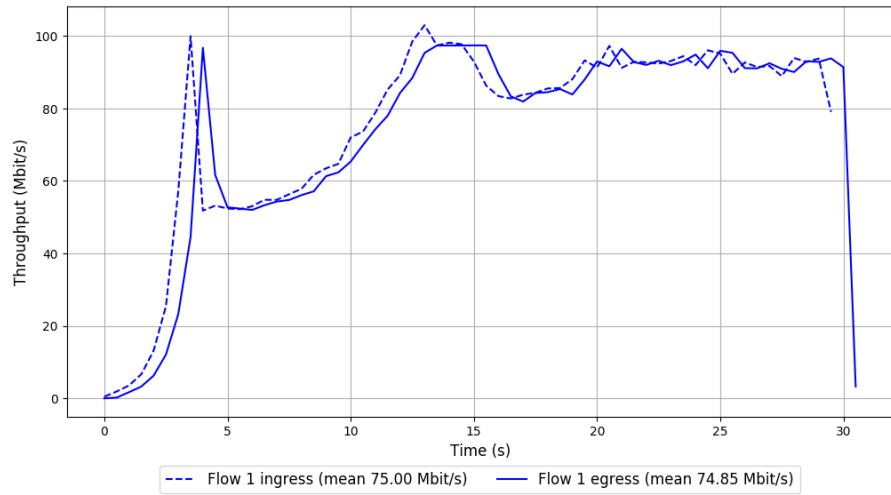


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-26 21:40:13
End at: 2019-03-26 21:40:43
Local clock offset: -4.065 ms
Remote clock offset: 6.502 ms

# Below is generated by plot.py at 2019-03-26 22:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.85 Mbit/s
95th percentile per-packet one-way delay: 112.953 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 74.85 Mbit/s
95th percentile per-packet one-way delay: 112.953 ms
Loss rate: 0.14%
```

Run 4: Report of PCC-Vivace — Data Link

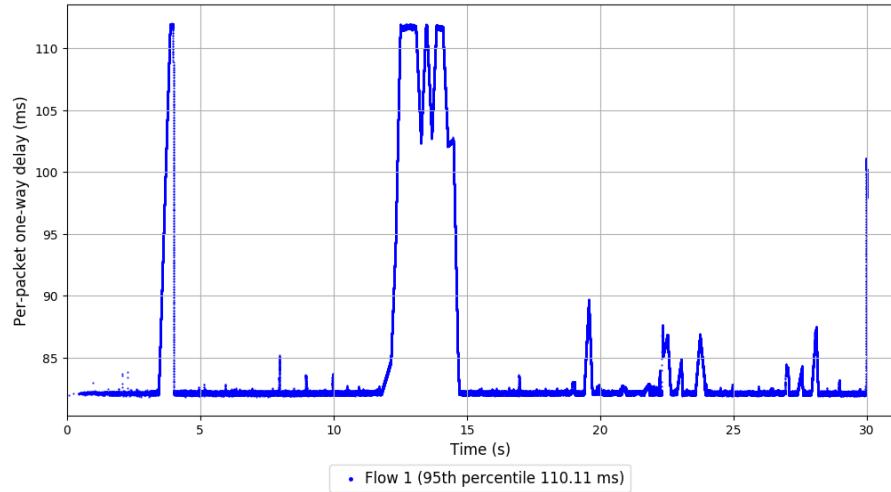
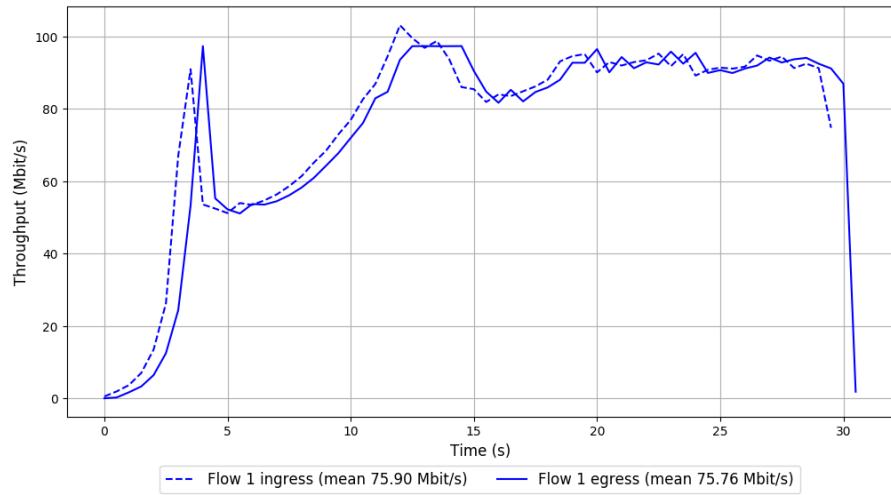


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-26 22:04:52
End at: 2019-03-26 22:05:22
Local clock offset: -7.977 ms
Remote clock offset: 3.384 ms

# Below is generated by plot.py at 2019-03-26 22:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.76 Mbit/s
95th percentile per-packet one-way delay: 110.108 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 75.76 Mbit/s
95th percentile per-packet one-way delay: 110.108 ms
Loss rate: 0.13%
```

Run 5: Report of PCC-Vivace — Data Link

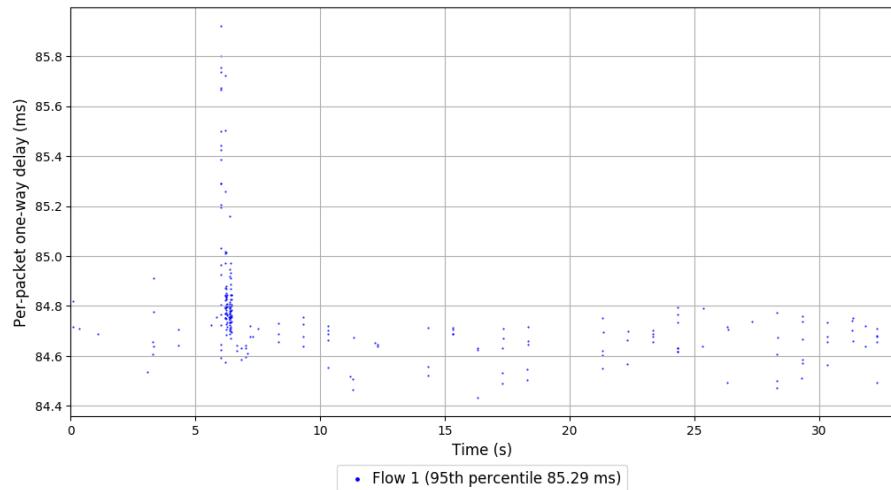
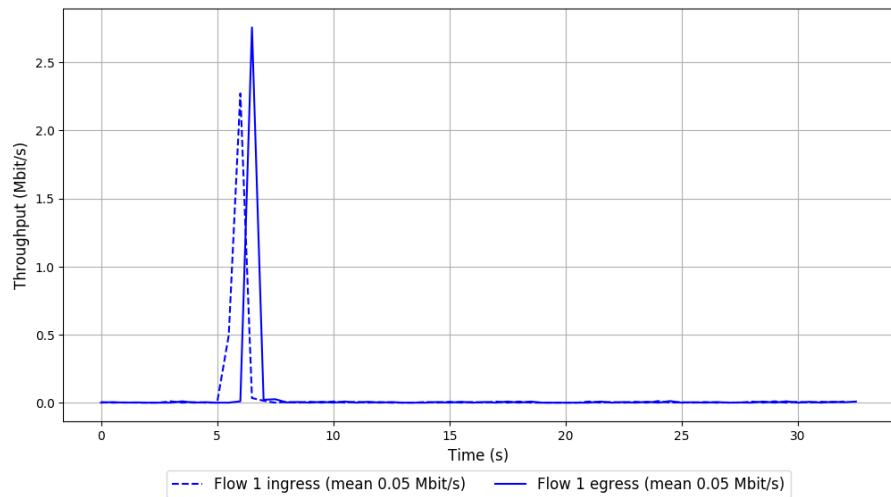


```
Run 1: Statistics of WebRTC media

Start at: 2019-03-26 20:28:46
End at: 2019-03-26 20:29:16
Local clock offset: -11.804 ms
Remote clock offset: 4.785 ms

# Below is generated by plot.py at 2019-03-26 22:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.291 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.291 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

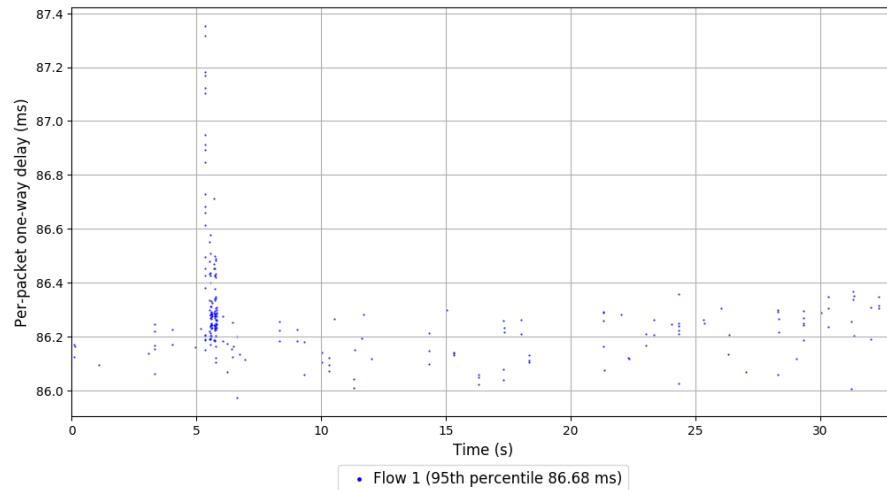
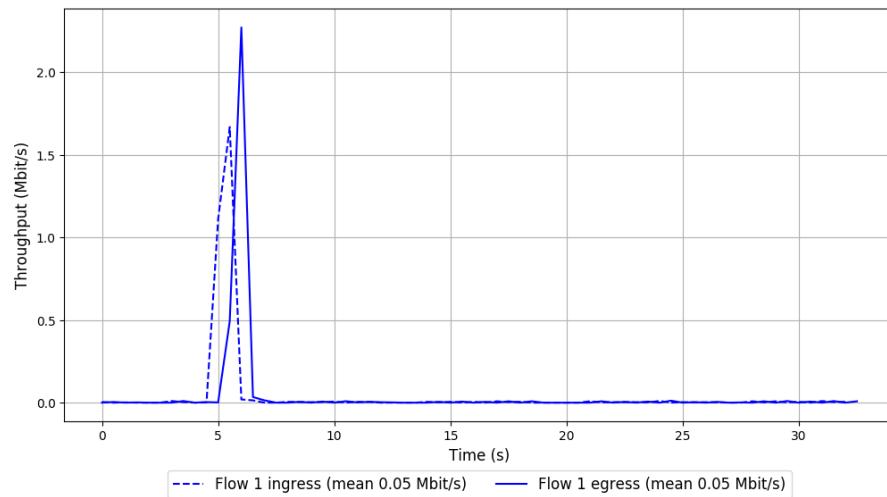


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-26 20:53:24
End at: 2019-03-26 20:53:54
Local clock offset: -10.227 ms
Remote clock offset: 6.189 ms

# Below is generated by plot.py at 2019-03-26 22:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.682 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.682 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

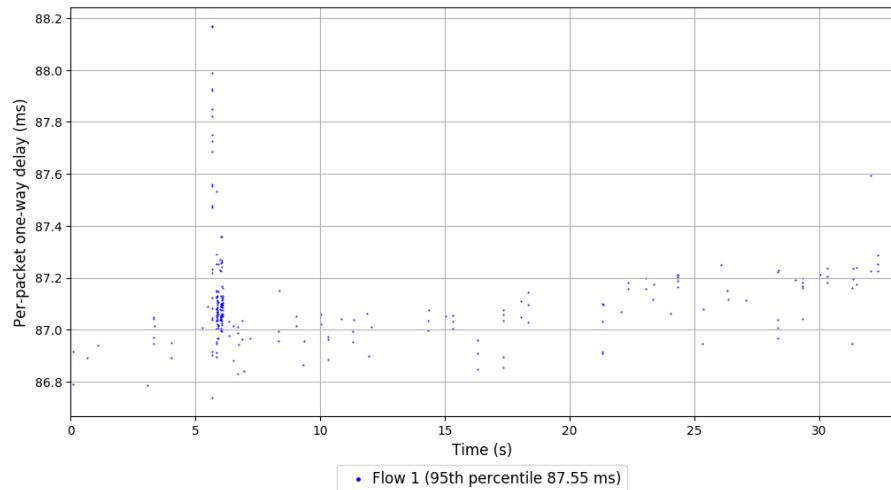
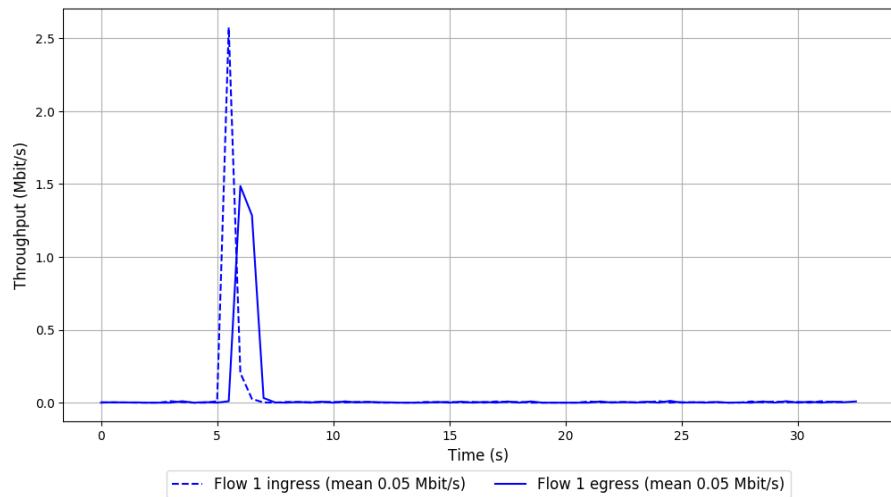


Run 3: Statistics of WebRTC media

```
Start at: 2019-03-26 21:18:00
End at: 2019-03-26 21:18:30
Local clock offset: -9.554 ms
Remote clock offset: 5.899 ms

# Below is generated by plot.py at 2019-03-26 22:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.552 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.552 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

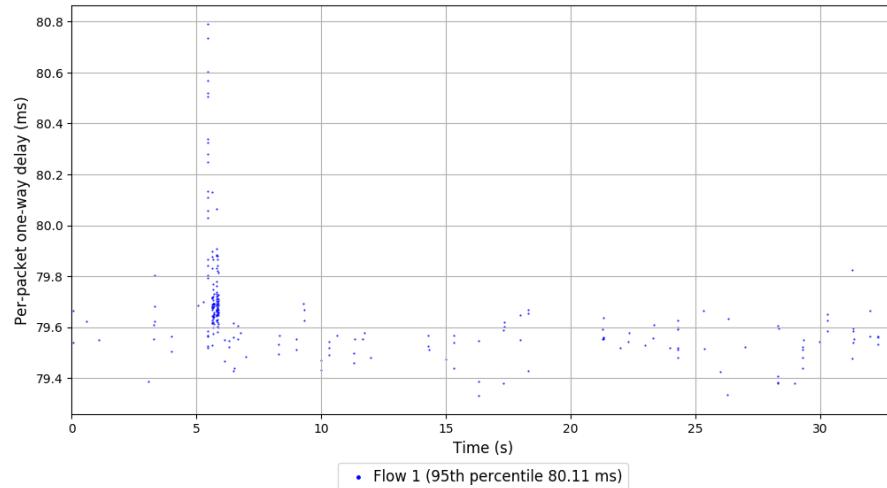
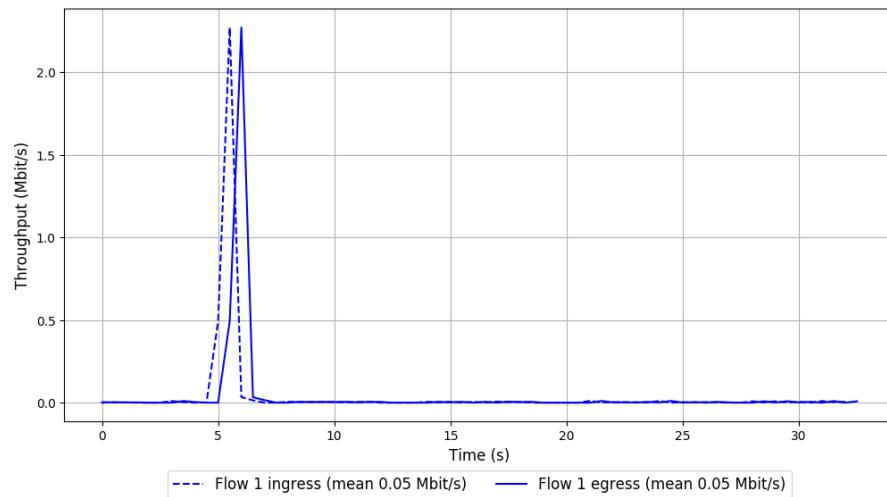


Run 4: Statistics of WebRTC media

```
Start at: 2019-03-26 21:42:37
End at: 2019-03-26 21:43:08
Local clock offset: -4.097 ms
Remote clock offset: 1.639 ms

# Below is generated by plot.py at 2019-03-26 22:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 80.110 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 80.110 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-03-26 22:07:21
End at: 2019-03-26 22:07:51
Local clock offset: -8.131 ms
Remote clock offset: 2.313 ms

# Below is generated by plot.py at 2019-03-26 22:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 79.598 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 79.598 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

