

Pantheon Report

Generated at 2019-12-11 13:30:11 (UTC).
Data path: India on `em1` (*remote*) → AWS India 1 on `ens5` (*local*).
Repeated the test of 24 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

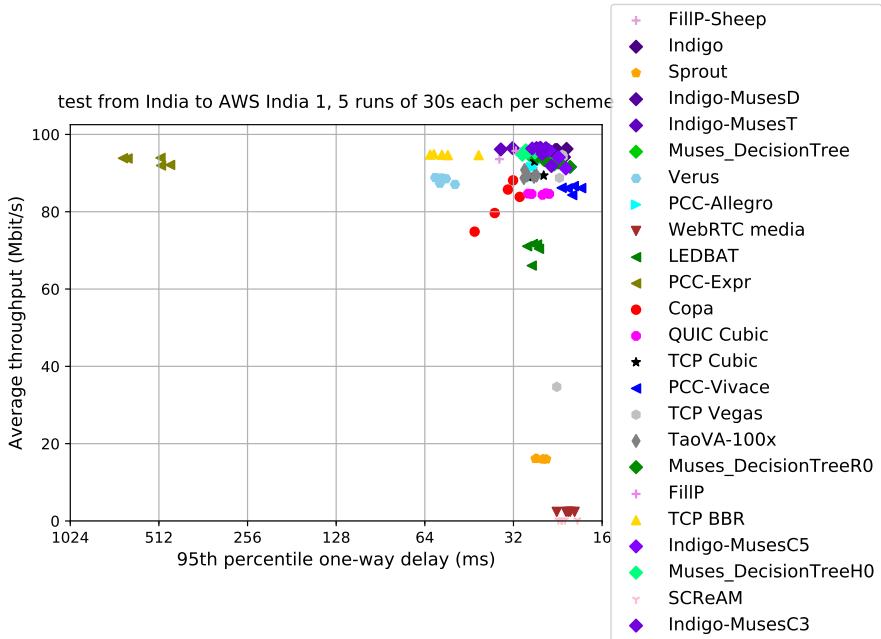
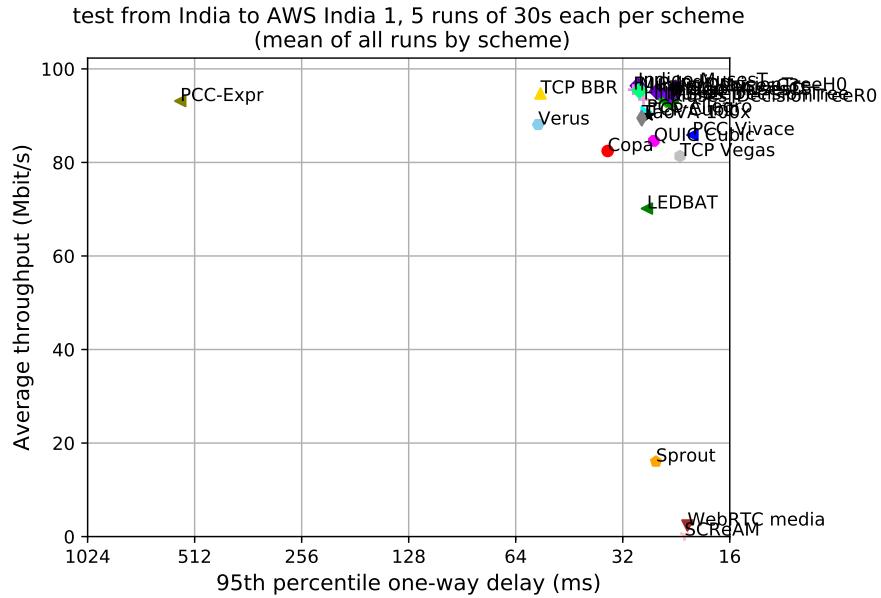
System info:

```
Linux 4.15.0-1054-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 @ de42328552b3776a75a932a94dfaf722537b0ec
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/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
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



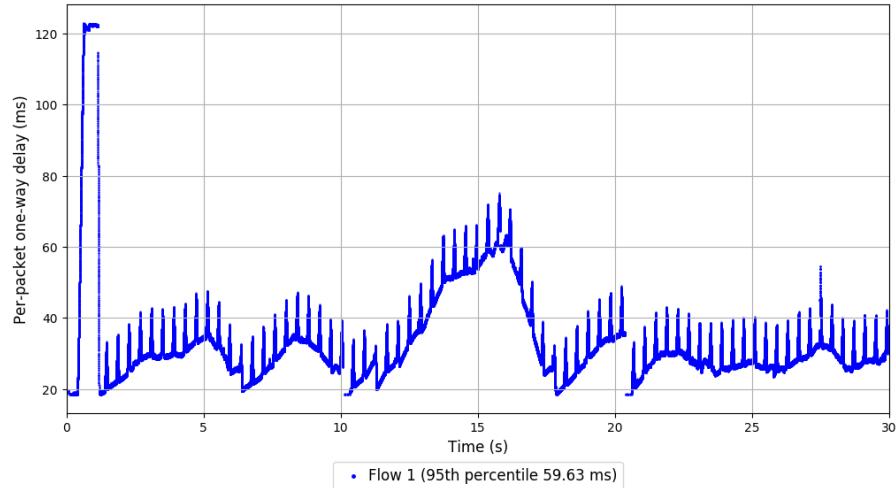
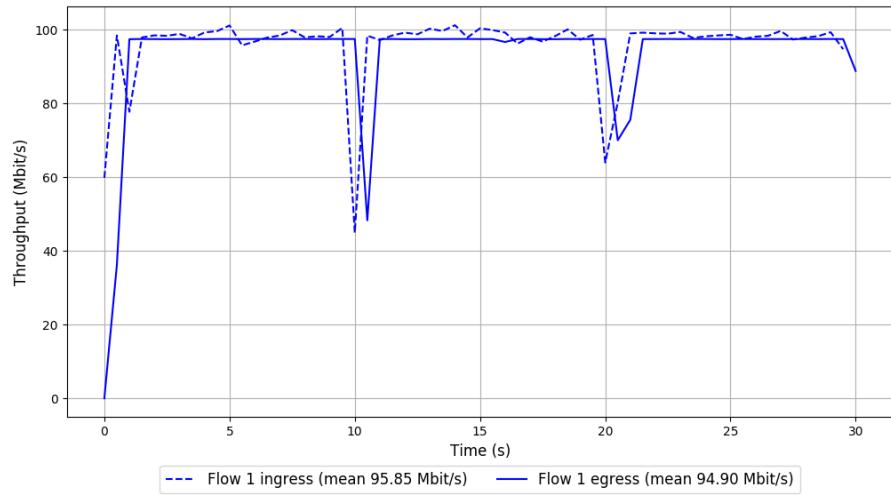
| scheme | # runs | mean avg tput (Mbit/s) flow 1 | mean 95th-%ile delay (ms) flow 1 | mean loss rate (%) flow 1 |
|----------------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR | 5 | 94.74 | 54.50 | 1.09 |
| Copa | 5 | 82.44 | 35.28 | 0.20 |
| TCP Cubic | 5 | 90.03 | 27.02 | 0.17 |
| FillP | 5 | 95.56 | 29.89 | 0.19 |
| FillP-Sheep | 5 | 93.45 | 27.97 | 0.19 |
| Indigo | 5 | 95.93 | 22.74 | 0.16 |
| Indigo-MusesC3 | 5 | 95.17 | 25.60 | 0.30 |
| Indigo-MusesC5 | 5 | 94.45 | 23.61 | 0.17 |
| Indigo-MusesD | 5 | 94.39 | 23.15 | 0.17 |
| Indigo-MusesT | 5 | 96.40 | 28.98 | 0.23 |
| LEDBAT | 5 | 70.14 | 27.36 | 0.22 |
| Muses_DecisionTree | 5 | 93.44 | 24.14 | 0.17 |
| Muses_DecisionTreeH0 | 5 | 95.39 | 28.69 | 0.28 |
| Muses_DecisionTreeR0 | 5 | 92.99 | 23.47 | 0.16 |
| PCC-Allegro | 5 | 90.70 | 27.40 | 0.19 |
| PCC-Expr | 5 | 93.12 | 562.12 | 25.08 |
| QUIC Cubic | 5 | 84.60 | 26.16 | 0.21 |
| SCReAM | 5 | 0.22 | 21.44 | 0.16 |
| Sprout | 5 | 16.05 | 25.80 | 0.15 |
| TaoVA-100x | 5 | 89.47 | 28.30 | 0.19 |
| TCP Vegas | 5 | 81.35 | 22.09 | 0.18 |
| Verus | 5 | 88.11 | 55.34 | 0.33 |
| PCC-Vivace | 5 | 85.86 | 20.39 | 0.18 |
| WebRTC media | 5 | 2.37 | 21.05 | 0.16 |

Run 1: Statistics of TCP BBR

```
Start at: 2019-12-11 10:55:31
End at: 2019-12-11 10:56:02
Local clock offset: 6.375 ms
Remote clock offset: -4.264 ms

# Below is generated by plot.py at 2019-12-11 13:14:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 59.629 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 59.629 ms
Loss rate: 1.16%
```

Run 1: Report of TCP BBR — Data Link

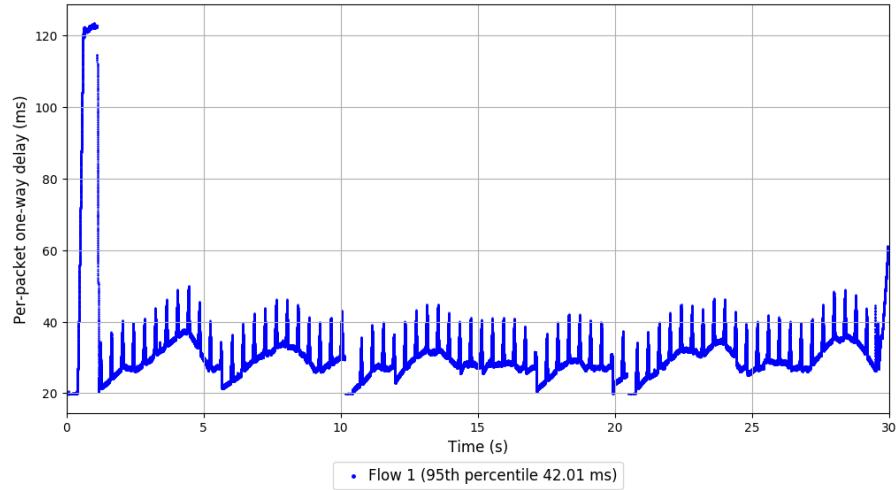
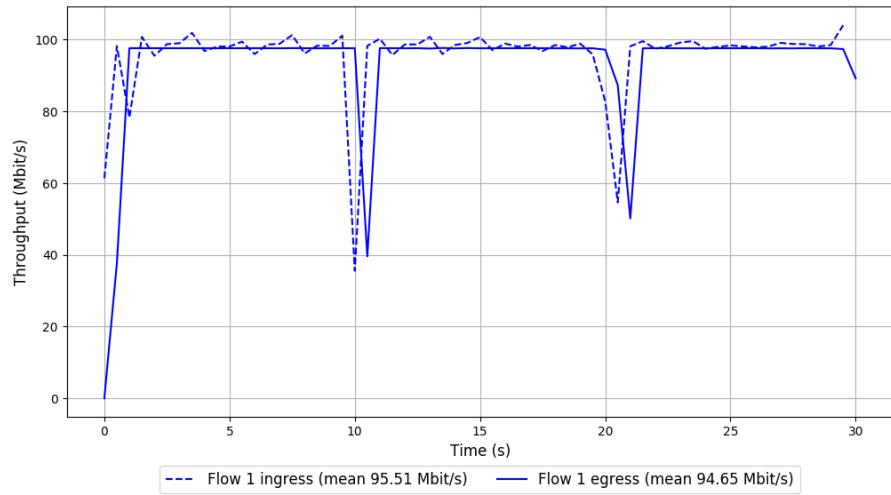


Run 2: Statistics of TCP BBR

```
Start at: 2019-12-11 11:24:12
End at: 2019-12-11 11:24:42
Local clock offset: 6.888 ms
Remote clock offset: -4.094 ms

# Below is generated by plot.py at 2019-12-11 13:14:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.65 Mbit/s
95th percentile per-packet one-way delay: 42.012 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 94.65 Mbit/s
95th percentile per-packet one-way delay: 42.012 ms
Loss rate: 1.06%
```

Run 2: Report of TCP BBR — Data Link

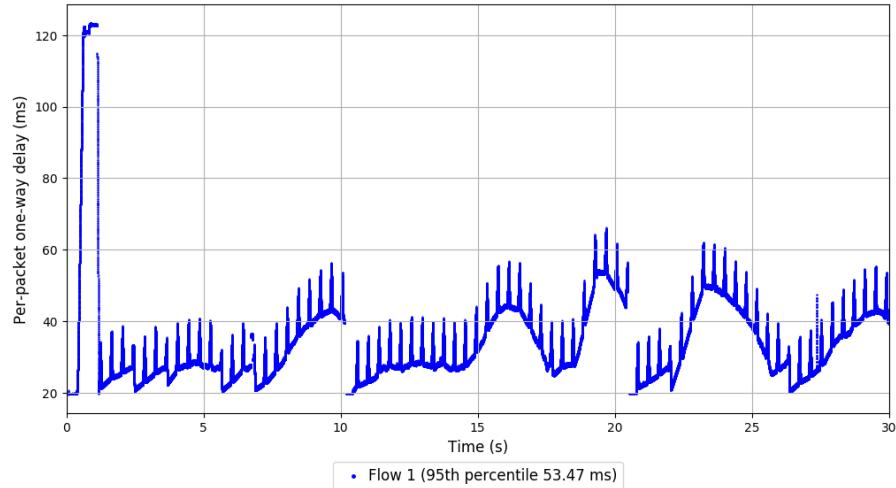
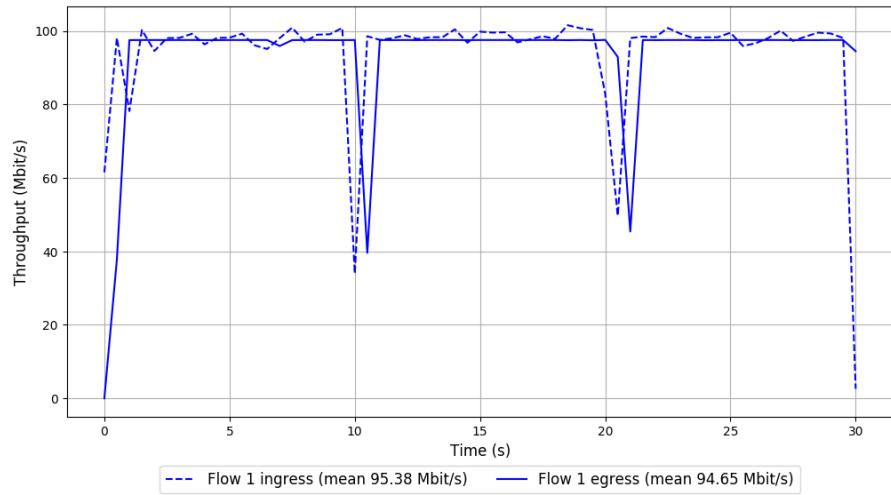


Run 3: Statistics of TCP BBR

```
Start at: 2019-12-11 11:52:32
End at: 2019-12-11 11:53:02
Local clock offset: 4.586 ms
Remote clock offset: -3.741 ms

# Below is generated by plot.py at 2019-12-11 13:14:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.65 Mbit/s
95th percentile per-packet one-way delay: 53.472 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 94.65 Mbit/s
95th percentile per-packet one-way delay: 53.472 ms
Loss rate: 0.92%
```

Run 3: Report of TCP BBR — Data Link

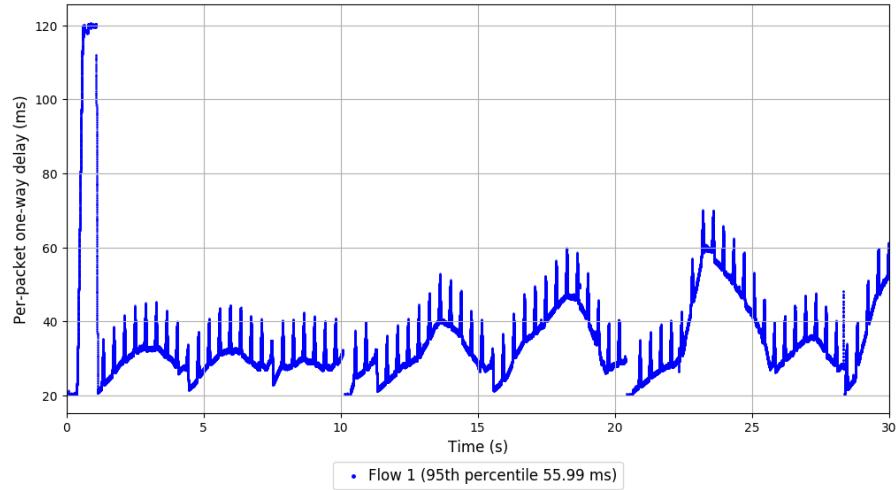
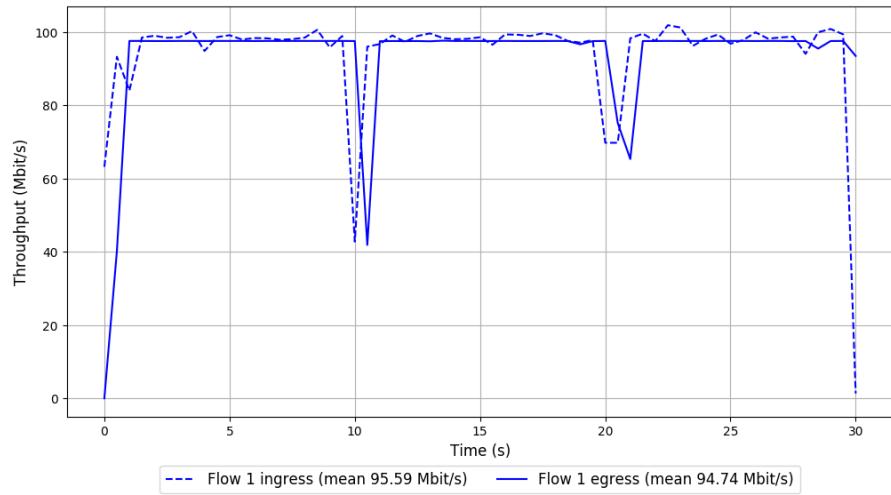


Run 4: Statistics of TCP BBR

```
Start at: 2019-12-11 12:20:58
End at: 2019-12-11 12:21:28
Local clock offset: 3.312 ms
Remote clock offset: -5.464 ms

# Below is generated by plot.py at 2019-12-11 13:14:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 55.995 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 55.995 ms
Loss rate: 1.04%
```

Run 4: Report of TCP BBR — Data Link

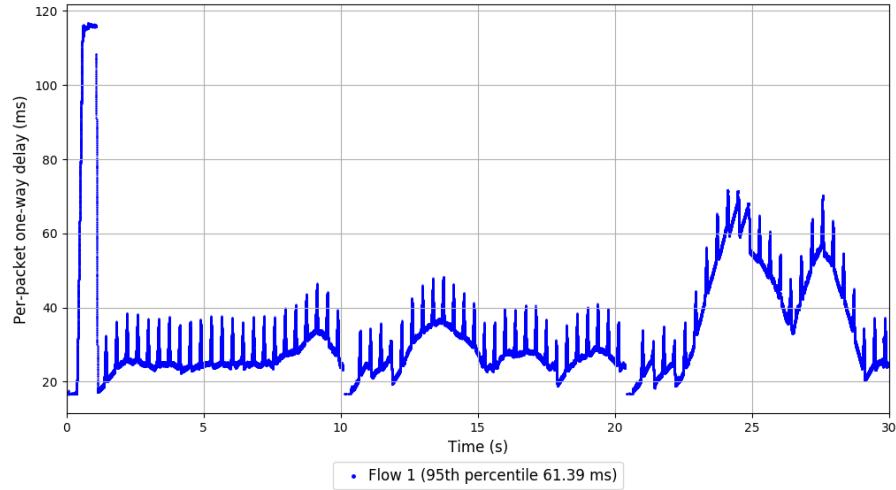
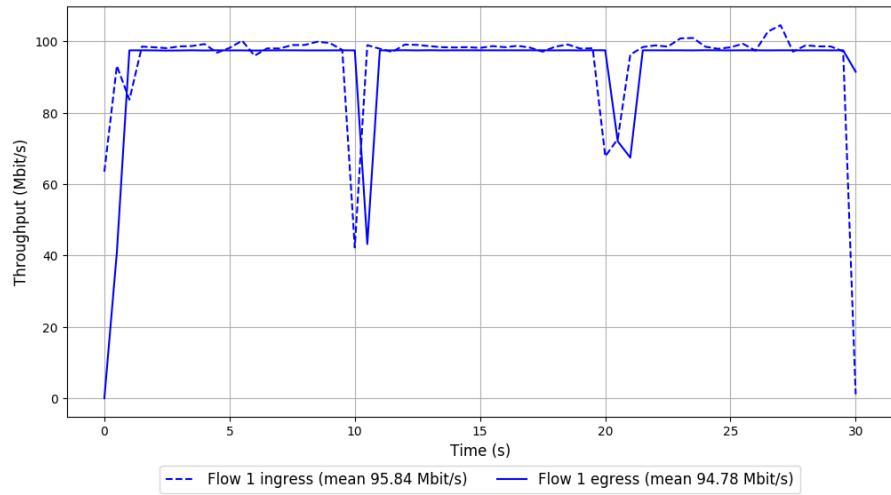


Run 5: Statistics of TCP BBR

```
Start at: 2019-12-11 12:50:29
End at: 2019-12-11 12:50:59
Local clock offset: 4.011 ms
Remote clock offset: -1.632 ms

# Below is generated by plot.py at 2019-12-11 13:14:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 61.390 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 61.390 ms
Loss rate: 1.26%
```

Run 5: Report of TCP BBR — Data Link

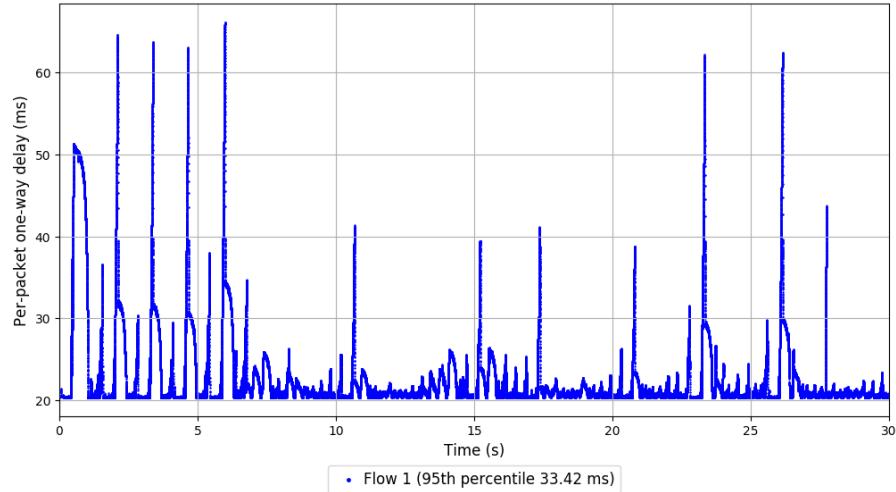
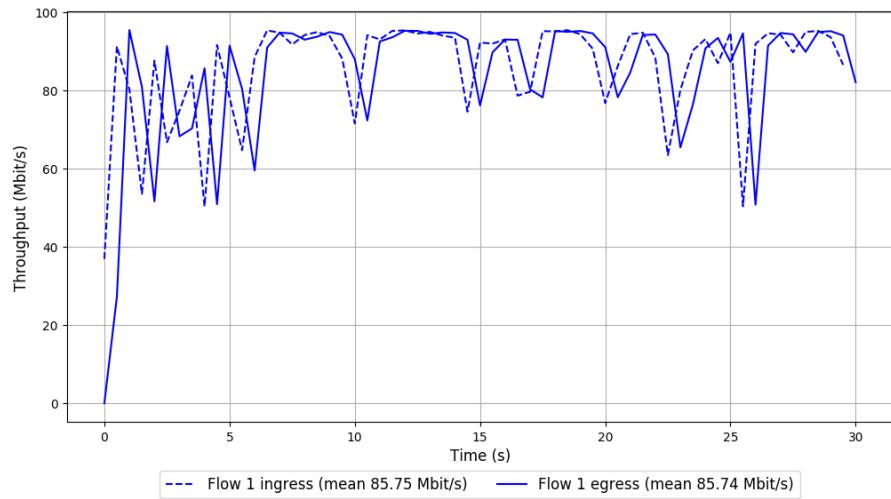


Run 1: Statistics of Copa

```
Start at: 2019-12-11 11:01:16
End at: 2019-12-11 11:01:46
Local clock offset: 6.705 ms
Remote clock offset: -5.846 ms

# Below is generated by plot.py at 2019-12-11 13:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.74 Mbit/s
95th percentile per-packet one-way delay: 33.416 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 85.74 Mbit/s
95th percentile per-packet one-way delay: 33.416 ms
Loss rate: 0.17%
```

Run 1: Report of Copa — Data Link

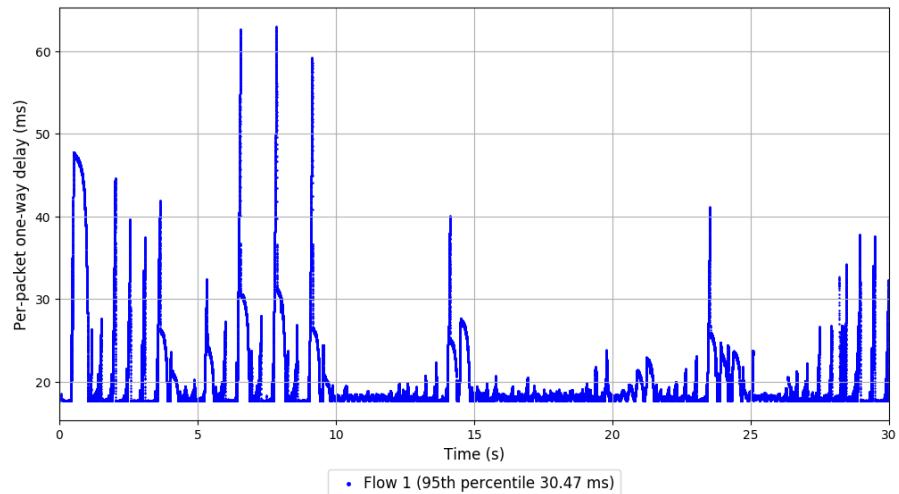
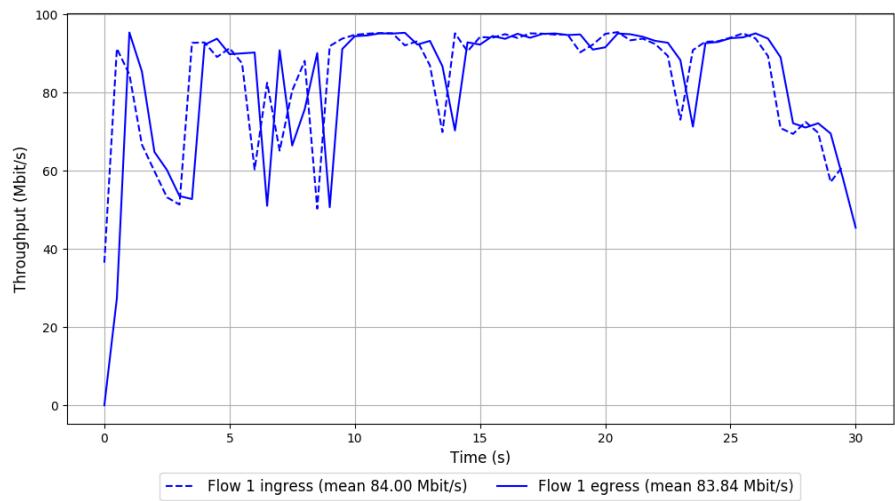


Run 2: Statistics of Copa

```
Start at: 2019-12-11 11:30:03
End at: 2019-12-11 11:30:33
Local clock offset: 6.82 ms
Remote clock offset: -1.959 ms

# Below is generated by plot.py at 2019-12-11 13:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.84 Mbit/s
95th percentile per-packet one-way delay: 30.471 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 83.84 Mbit/s
95th percentile per-packet one-way delay: 30.471 ms
Loss rate: 0.34%
```

Run 2: Report of Copa — Data Link

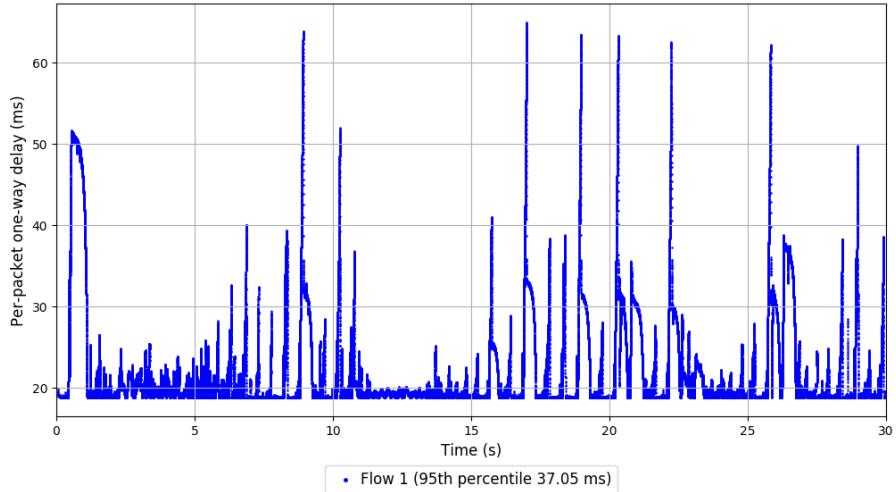
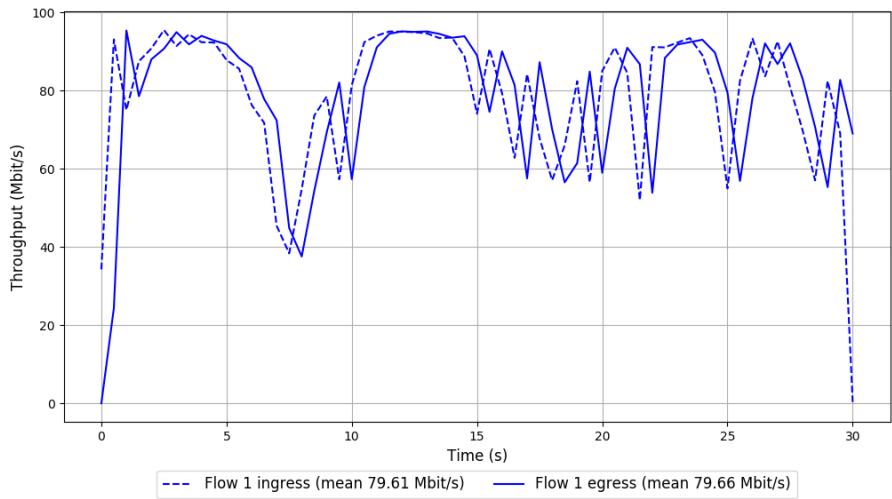


Run 3: Statistics of Copa

```
Start at: 2019-12-11 11:58:19
End at: 2019-12-11 11:58:49
Local clock offset: 4.559 ms
Remote clock offset: -2.591 ms

# Below is generated by plot.py at 2019-12-11 13:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.66 Mbit/s
95th percentile per-packet one-way delay: 37.054 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 79.66 Mbit/s
95th percentile per-packet one-way delay: 37.054 ms
Loss rate: 0.10%
```

Run 3: Report of Copa — Data Link

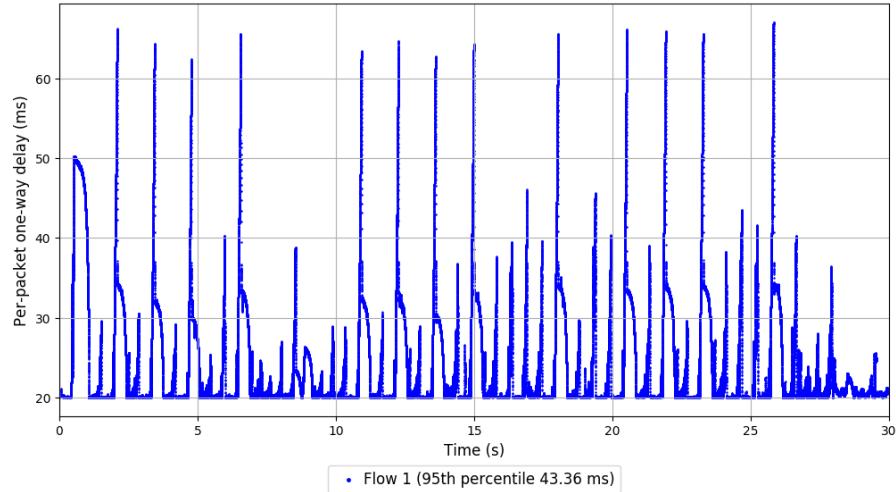
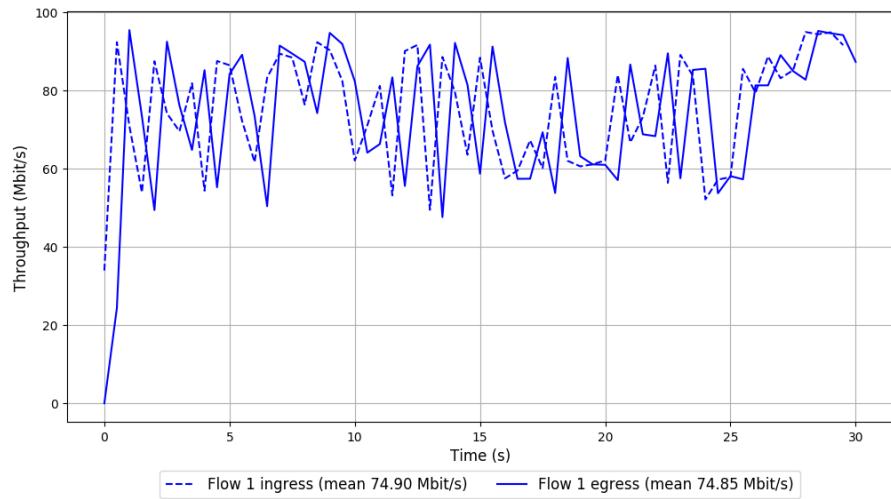


Run 4: Statistics of Copa

```
Start at: 2019-12-11 12:27:00
End at: 2019-12-11 12:27:30
Local clock offset: 4.094 ms
Remote clock offset: -4.111 ms

# Below is generated by plot.py at 2019-12-11 13:16:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.85 Mbit/s
95th percentile per-packet one-way delay: 43.359 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 74.85 Mbit/s
95th percentile per-packet one-way delay: 43.359 ms
Loss rate: 0.23%
```

Run 4: Report of Copa — Data Link

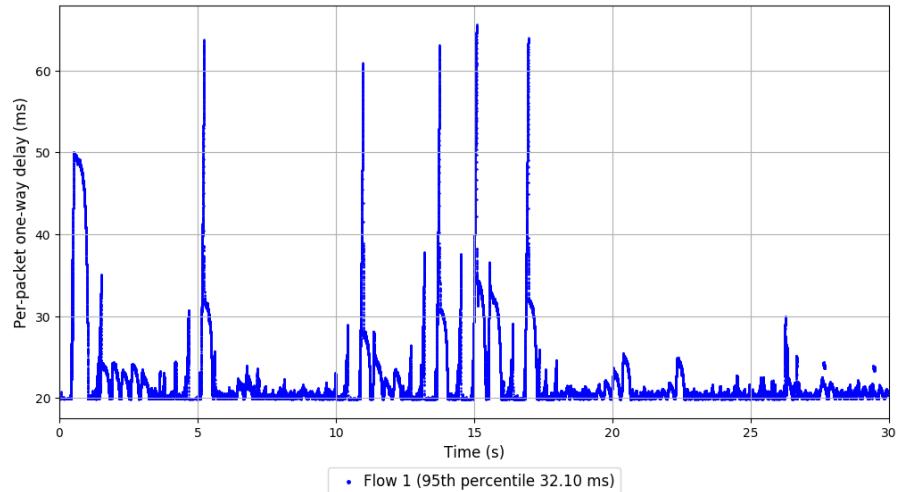
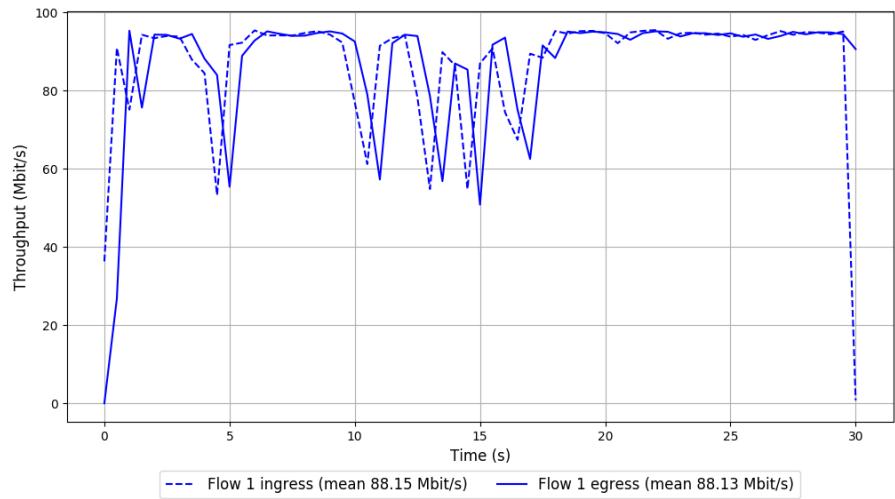


Run 5: Statistics of Copa

```
Start at: 2019-12-11 12:56:27
End at: 2019-12-11 12:56:57
Local clock offset: 4.684 ms
Remote clock offset: -4.257 ms

# Below is generated by plot.py at 2019-12-11 13:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.13 Mbit/s
95th percentile per-packet one-way delay: 32.103 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 88.13 Mbit/s
95th percentile per-packet one-way delay: 32.103 ms
Loss rate: 0.18%
```

Run 5: Report of Copa — Data Link

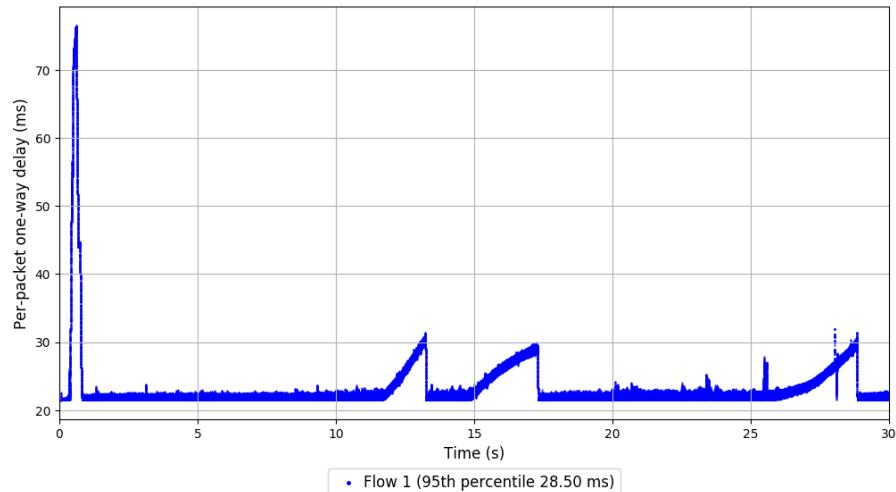
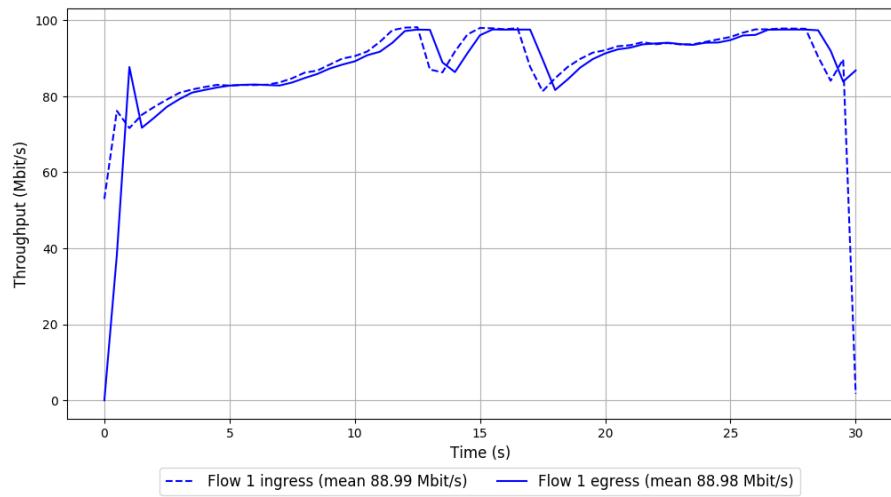


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-12-11 10:59:01
End at: 2019-12-11 10:59:31
Local clock offset: 6.3 ms
Remote clock offset: -7.272 ms

# Below is generated by plot.py at 2019-12-11 13:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.98 Mbit/s
95th percentile per-packet one-way delay: 28.501 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 88.98 Mbit/s
95th percentile per-packet one-way delay: 28.501 ms
Loss rate: 0.17%
```

Run 1: Report of TCP Cubic — Data Link

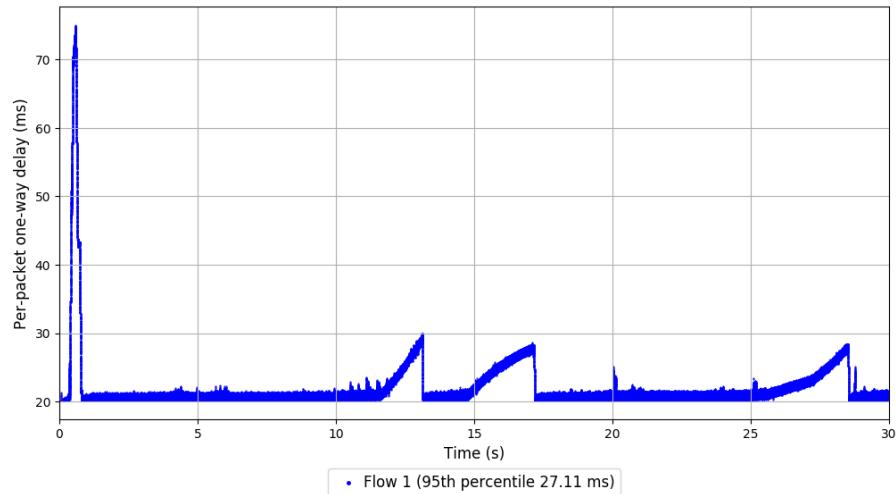
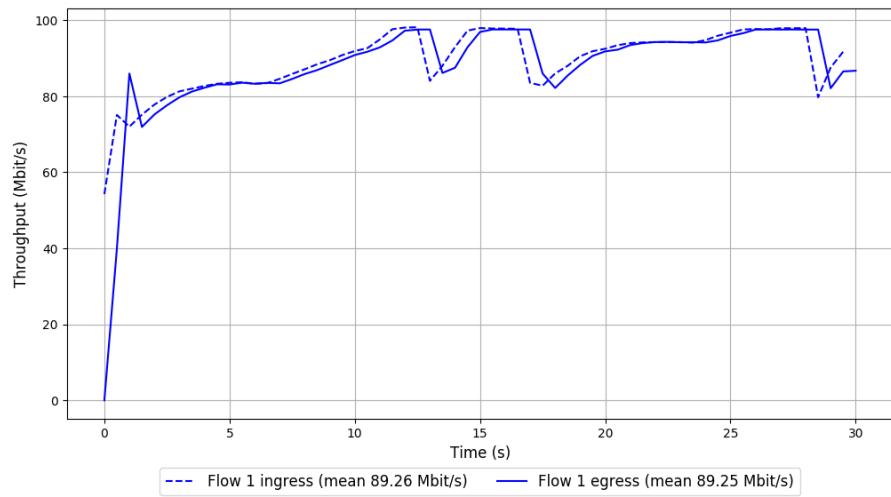


Run 2: Statistics of TCP Cubic

```
Start at: 2019-12-11 11:27:47
End at: 2019-12-11 11:28:17
Local clock offset: 6.805 ms
Remote clock offset: -4.605 ms

# Below is generated by plot.py at 2019-12-11 13:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.25 Mbit/s
95th percentile per-packet one-way delay: 27.111 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 89.25 Mbit/s
95th percentile per-packet one-way delay: 27.111 ms
Loss rate: 0.17%
```

Run 2: Report of TCP Cubic — Data Link

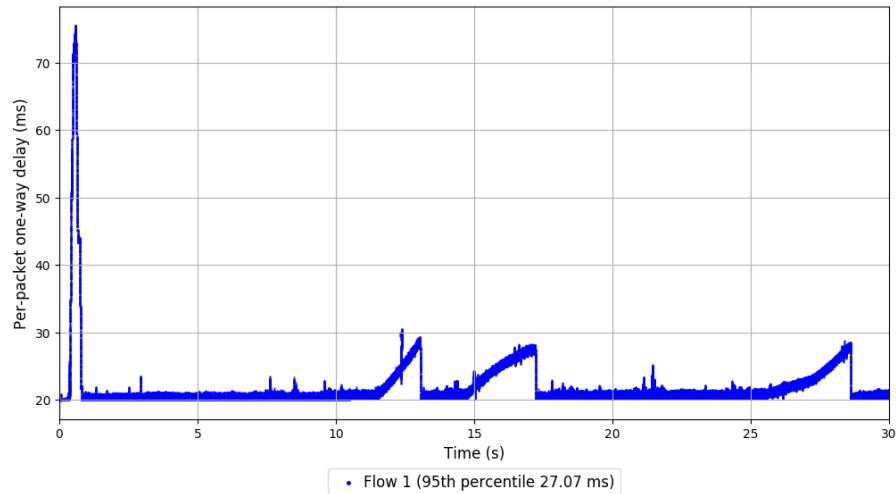
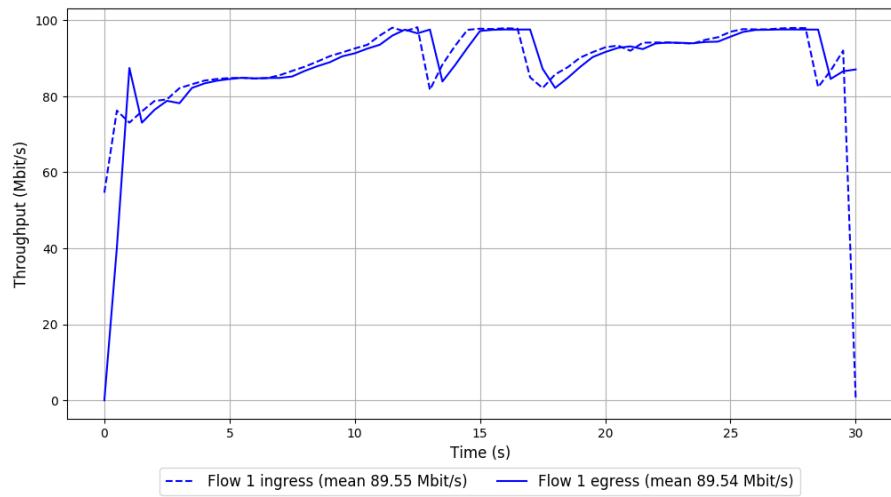


Run 3: Statistics of TCP Cubic

```
Start at: 2019-12-11 11:56:03
End at: 2019-12-11 11:56:33
Local clock offset: 4.529 ms
Remote clock offset: -4.156 ms

# Below is generated by plot.py at 2019-12-11 13:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.54 Mbit/s
95th percentile per-packet one-way delay: 27.068 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 89.54 Mbit/s
95th percentile per-packet one-way delay: 27.068 ms
Loss rate: 0.17%
```

Run 3: Report of TCP Cubic — Data Link

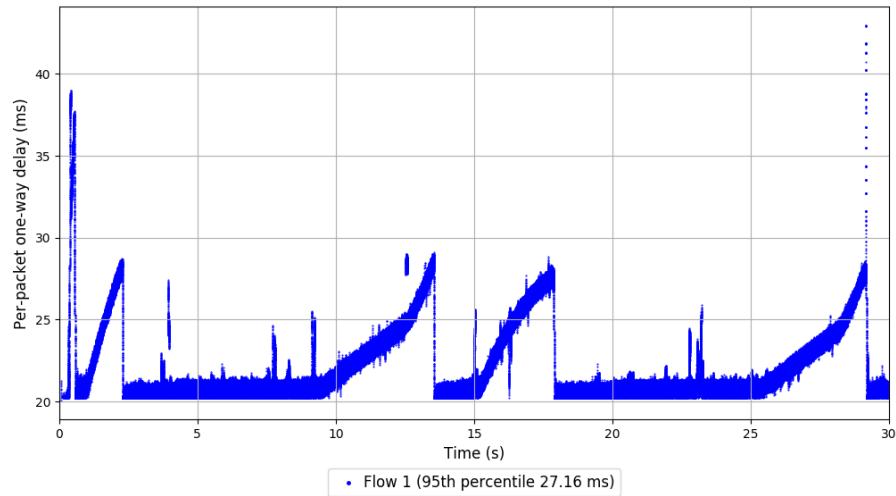
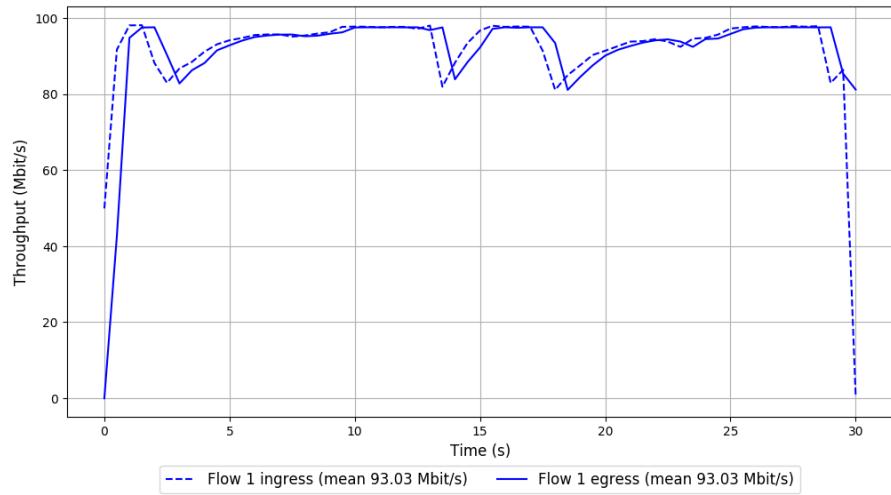


Run 4: Statistics of TCP Cubic

```
Start at: 2019-12-11 12:24:42
End at: 2019-12-11 12:25:12
Local clock offset: 3.663 ms
Remote clock offset: -4.88 ms

# Below is generated by plot.py at 2019-12-11 13:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 27.156 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 27.156 ms
Loss rate: 0.16%
```

Run 4: Report of TCP Cubic — Data Link

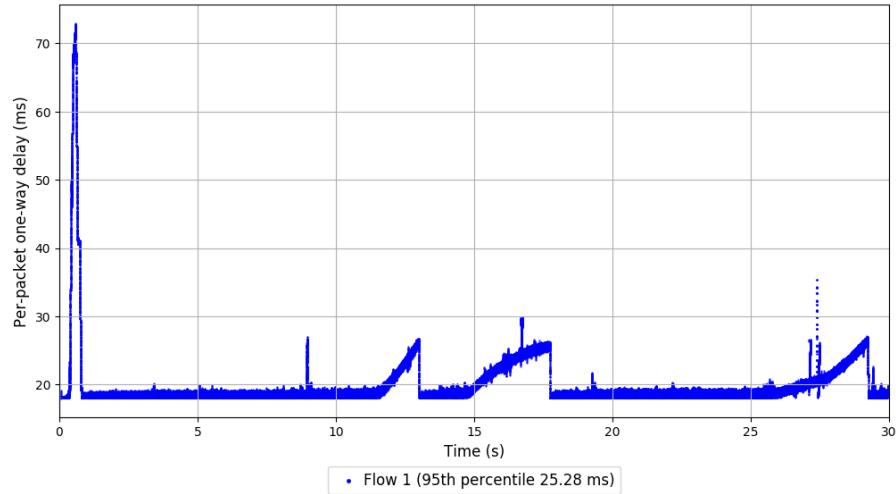
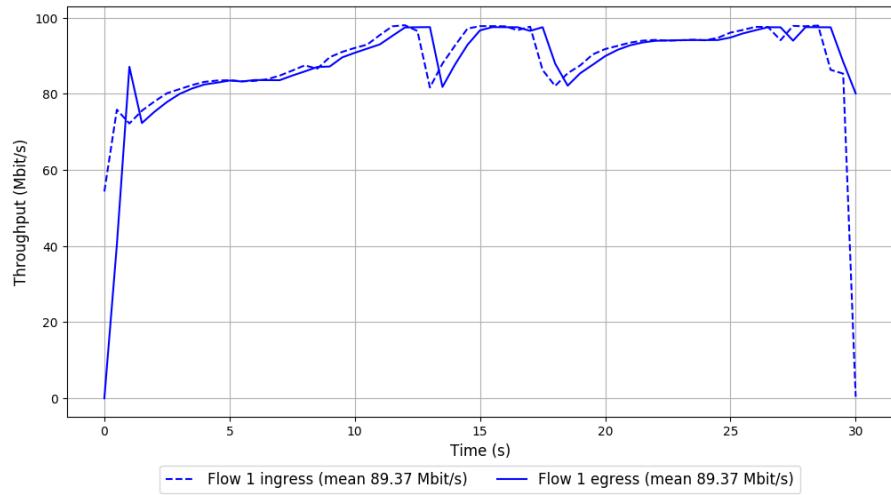


Run 5: Statistics of TCP Cubic

```
Start at: 2019-12-11 12:54:07
End at: 2019-12-11 12:54:37
Local clock offset: 4.948 ms
Remote clock offset: -2.205 ms

# Below is generated by plot.py at 2019-12-11 13:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.37 Mbit/s
95th percentile per-packet one-way delay: 25.276 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 89.37 Mbit/s
95th percentile per-packet one-way delay: 25.276 ms
Loss rate: 0.16%
```

Run 5: Report of TCP Cubic — Data Link

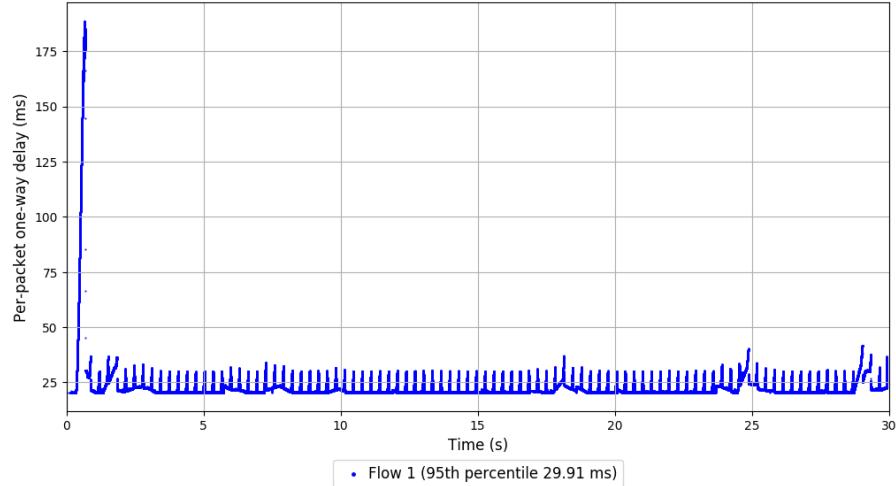
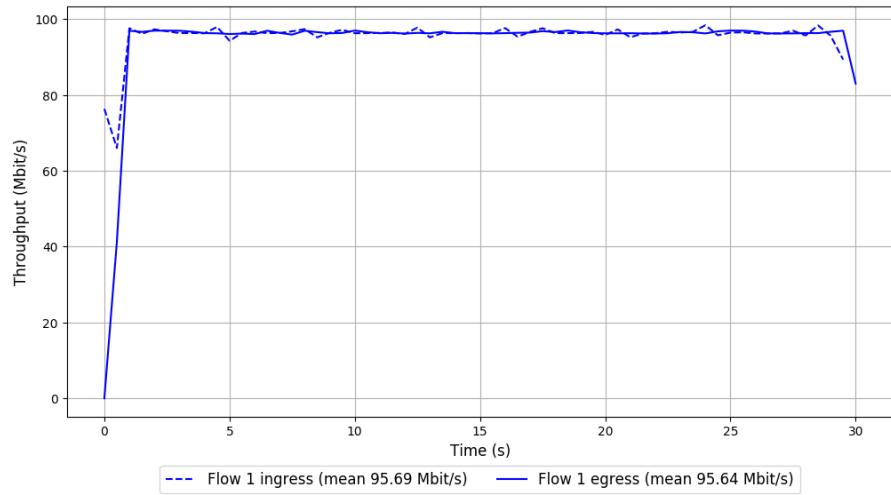


```
Run 1: Statistics of FillP

Start at: 2019-12-11 11:11:12
End at: 2019-12-11 11:11:42
Local clock offset: 6.661 ms
Remote clock offset: -5.51 ms

# Below is generated by plot.py at 2019-12-11 13:16:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 29.908 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 29.908 ms
Loss rate: 0.19%
```

Run 1: Report of FillP — Data Link

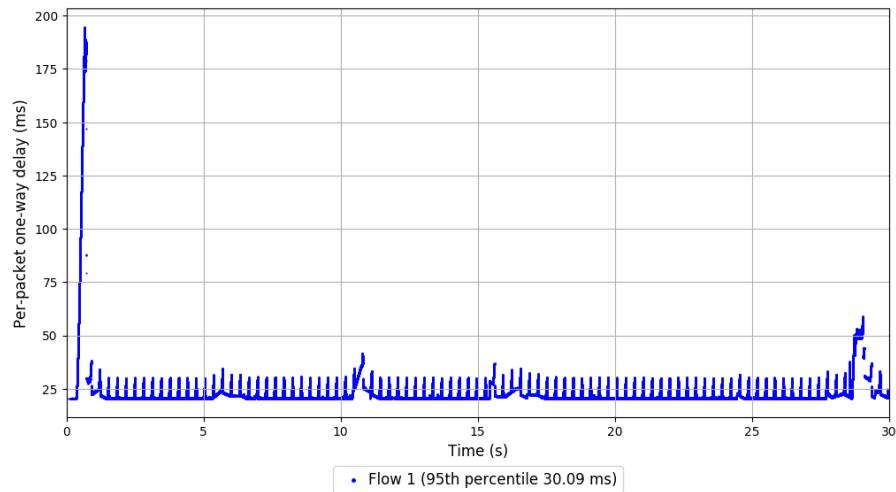
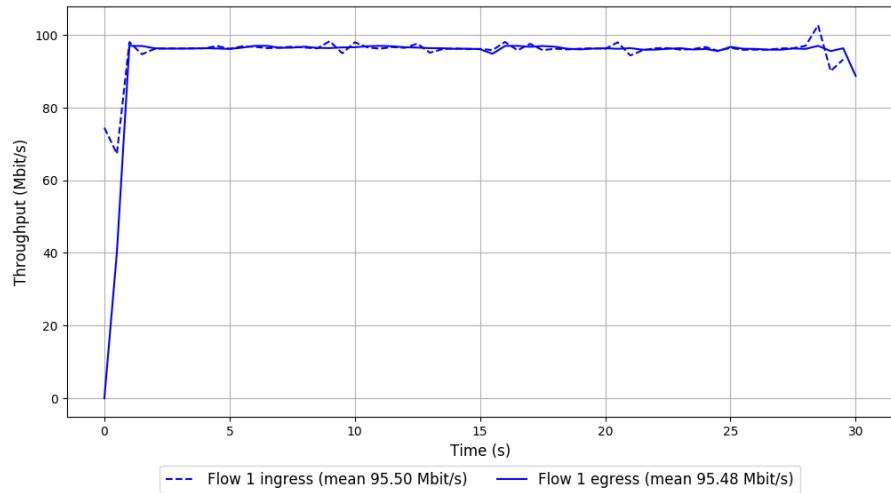


Run 2: Statistics of FillP

```
Start at: 2019-12-11 11:39:47
End at: 2019-12-11 11:40:17
Local clock offset: 7.095 ms
Remote clock offset: -4.034 ms

# Below is generated by plot.py at 2019-12-11 13:16:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 30.089 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 30.089 ms
Loss rate: 0.17%
```

Run 2: Report of FillP — Data Link

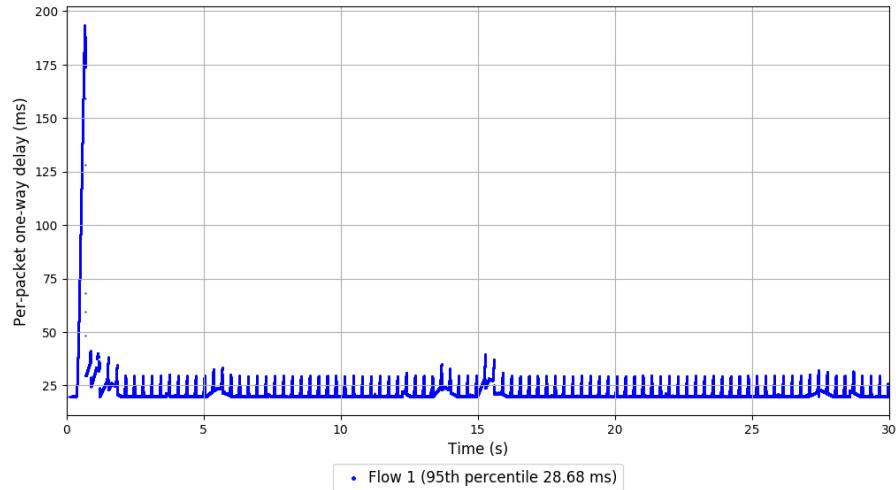
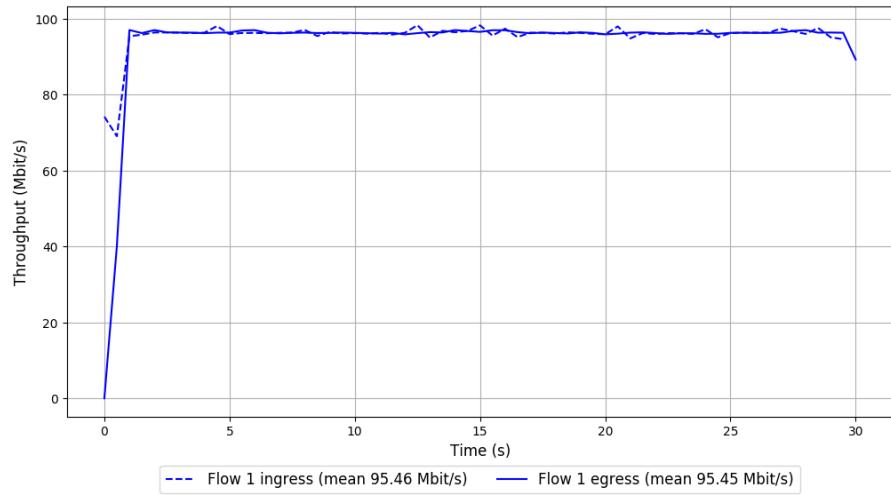


Run 3: Statistics of FillP

```
Start at: 2019-12-11 12:08:07
End at: 2019-12-11 12:08:37
Local clock offset: 3.25 ms
Remote clock offset: -4.904 ms

# Below is generated by plot.py at 2019-12-11 13:16:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 28.677 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 28.677 ms
Loss rate: 0.17%
```

Run 3: Report of FillP — Data Link

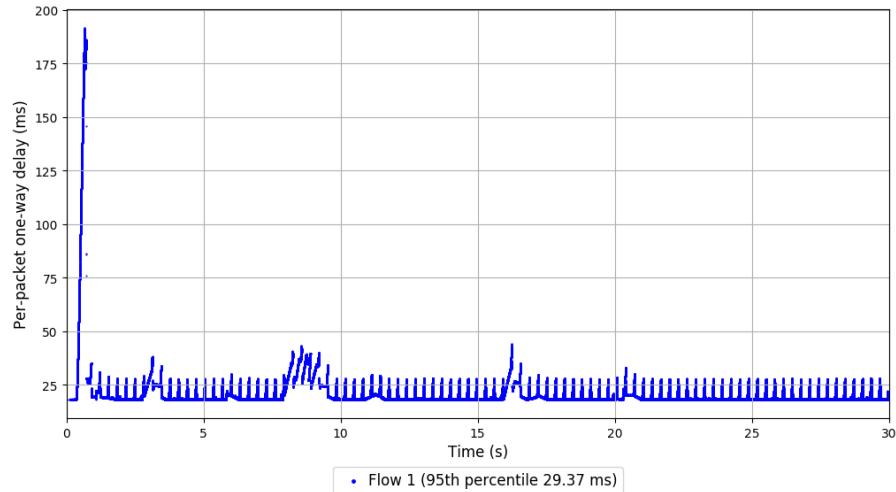
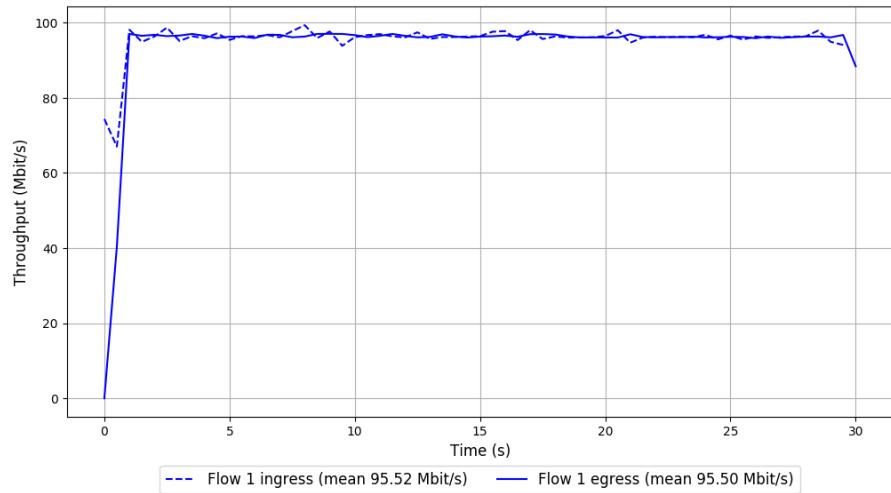


Run 4: Statistics of FillP

```
Start at: 2019-12-11 12:37:00
End at: 2019-12-11 12:37:30
Local clock offset: 4.274 ms
Remote clock offset: -1.86 ms

# Below is generated by plot.py at 2019-12-11 13:16:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 29.368 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 29.368 ms
Loss rate: 0.19%
```

Run 4: Report of FillP — Data Link

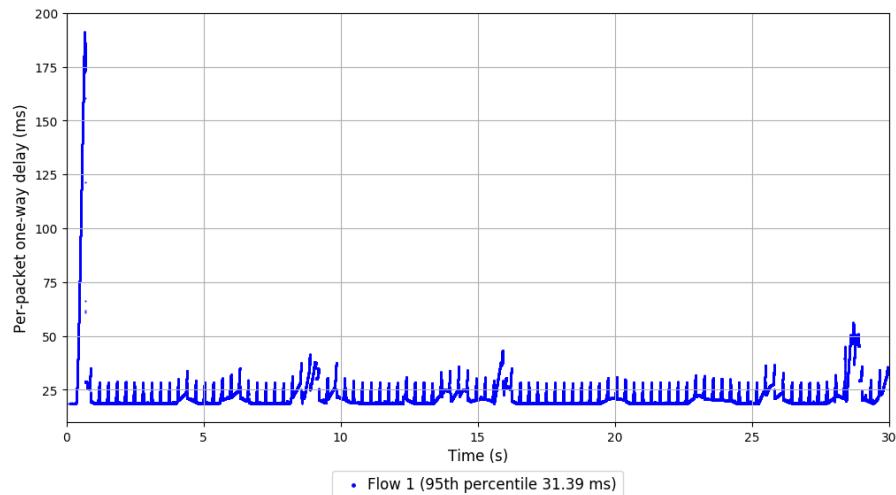
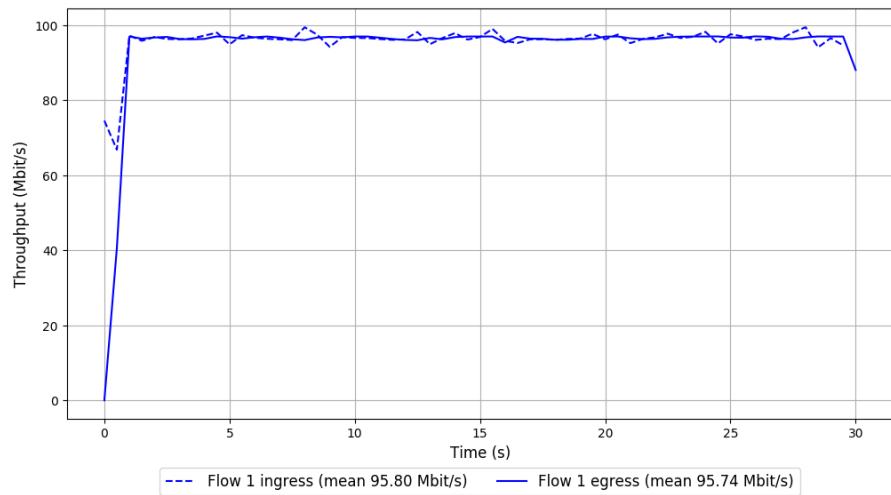


```
Run 5: Statistics of FillP
```

```
Start at: 2019-12-11 13:06:50
End at: 2019-12-11 13:07:20
Local clock offset: 5.488 ms
Remote clock offset: -2.661 ms

# Below is generated by plot.py at 2019-12-11 13:17:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 31.391 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 31.391 ms
Loss rate: 0.22%
```

Run 5: Report of FillP — Data Link

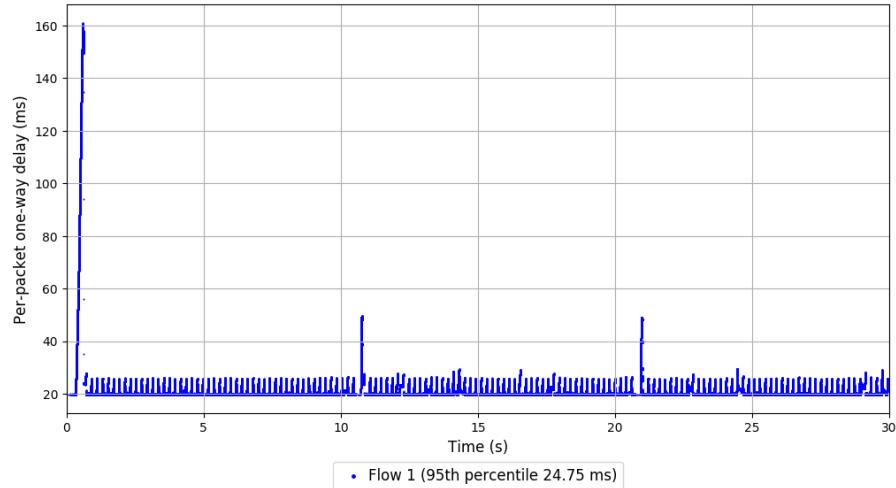
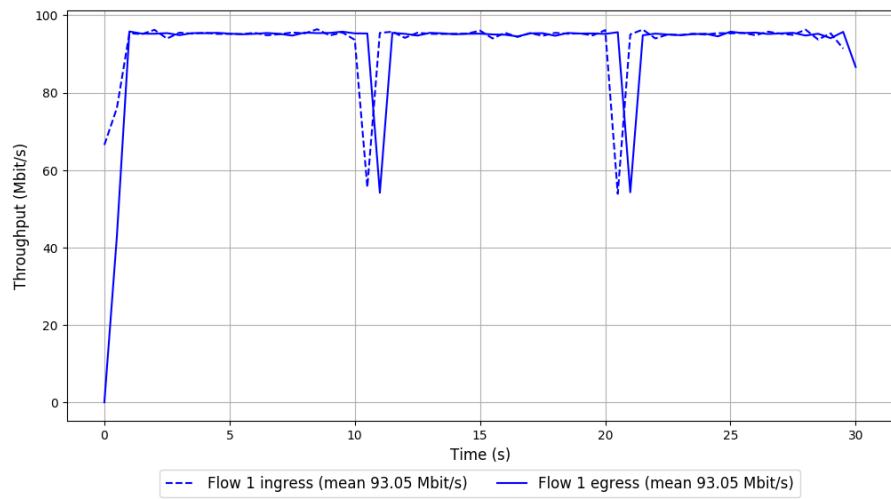


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-12-11 11:04:57
End at: 2019-12-11 11:05:27
Local clock offset: 7.105 ms
Remote clock offset: -4.587 ms

# Below is generated by plot.py at 2019-12-11 13:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.05 Mbit/s
95th percentile per-packet one-way delay: 24.747 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 93.05 Mbit/s
95th percentile per-packet one-way delay: 24.747 ms
Loss rate: 0.16%
```

Run 1: Report of FillP-Sheep — Data Link

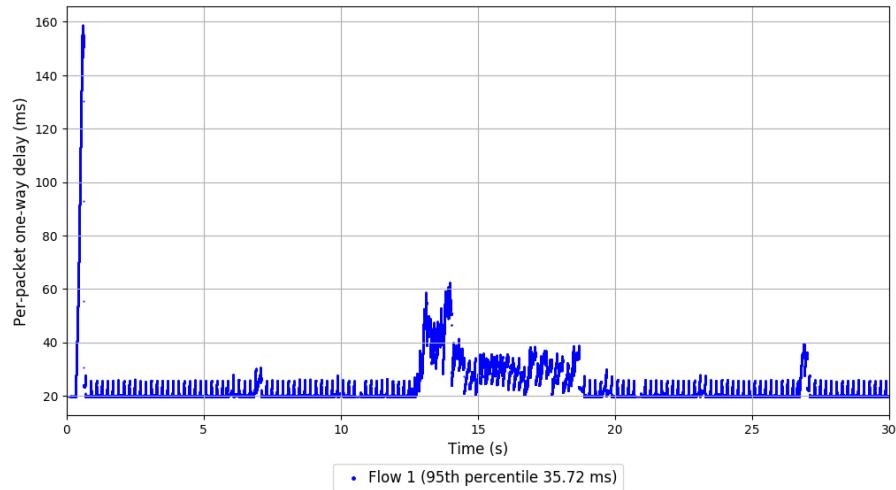
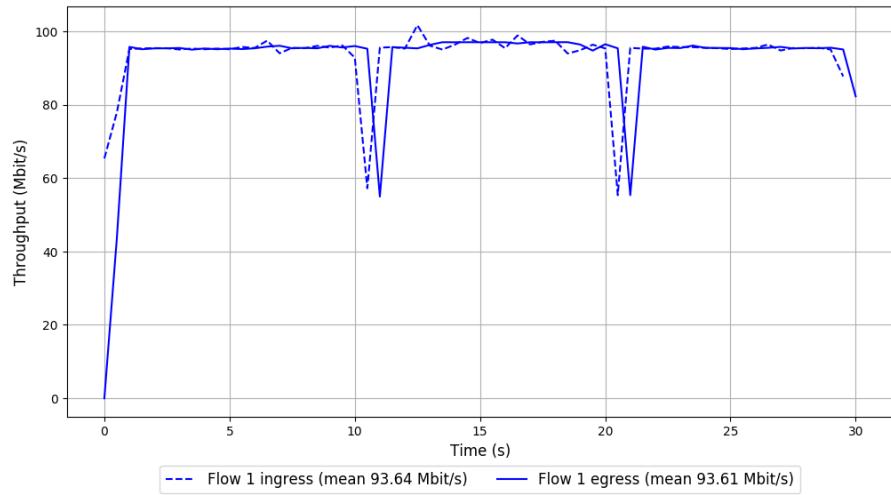


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-12-11 11:33:46
End at: 2019-12-11 11:34:16
Local clock offset: 6.766 ms
Remote clock offset: -3.851 ms

# Below is generated by plot.py at 2019-12-11 13:17:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.61 Mbit/s
95th percentile per-packet one-way delay: 35.721 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 93.61 Mbit/s
95th percentile per-packet one-way delay: 35.721 ms
Loss rate: 0.19%
```

Run 2: Report of FillP-Sheep — Data Link

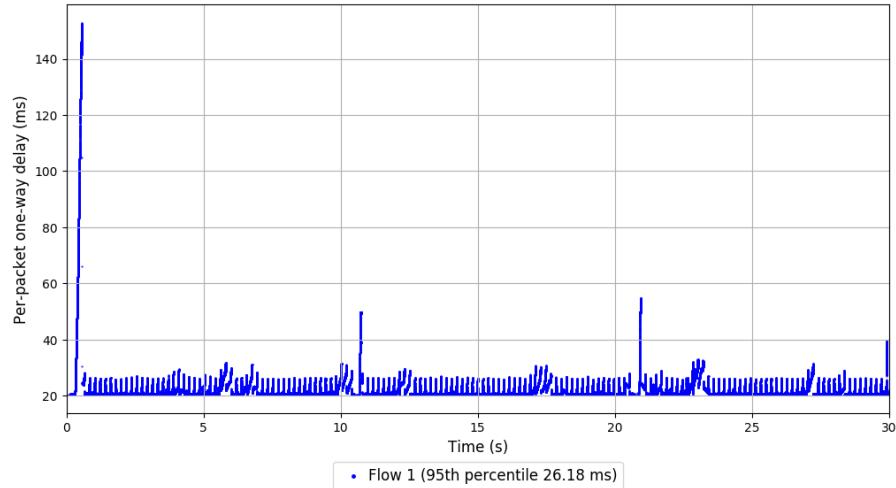
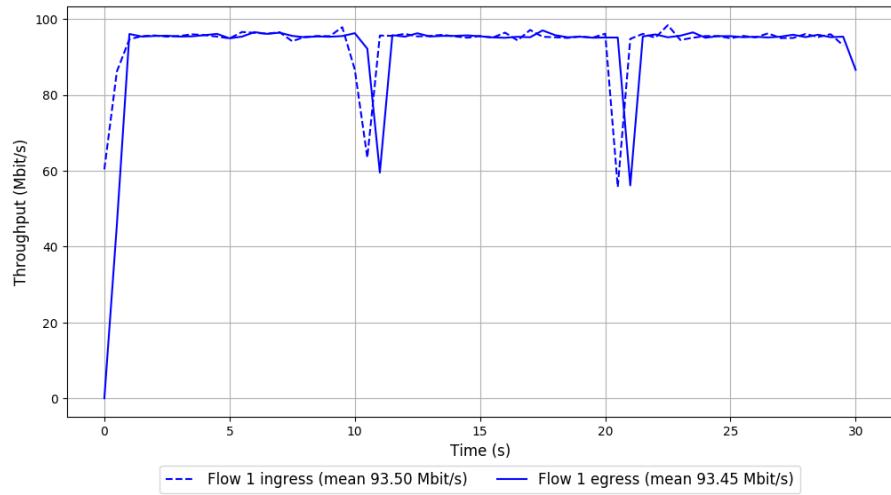


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-12-11 12:01:58
End at: 2019-12-11 12:02:28
Local clock offset: 4.521 ms
Remote clock offset: -4.379 ms

# Below is generated by plot.py at 2019-12-11 13:17:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 26.177 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 26.177 ms
Loss rate: 0.21%
```

Run 3: Report of FillP-Sheep — Data Link

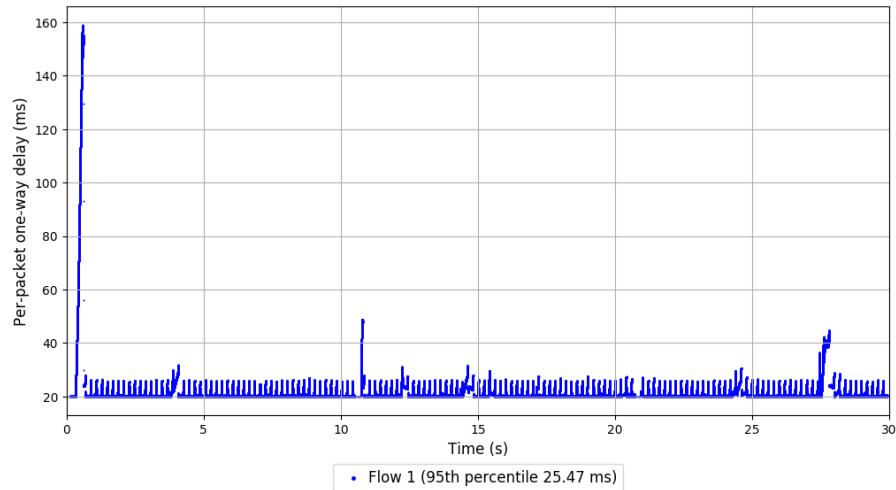
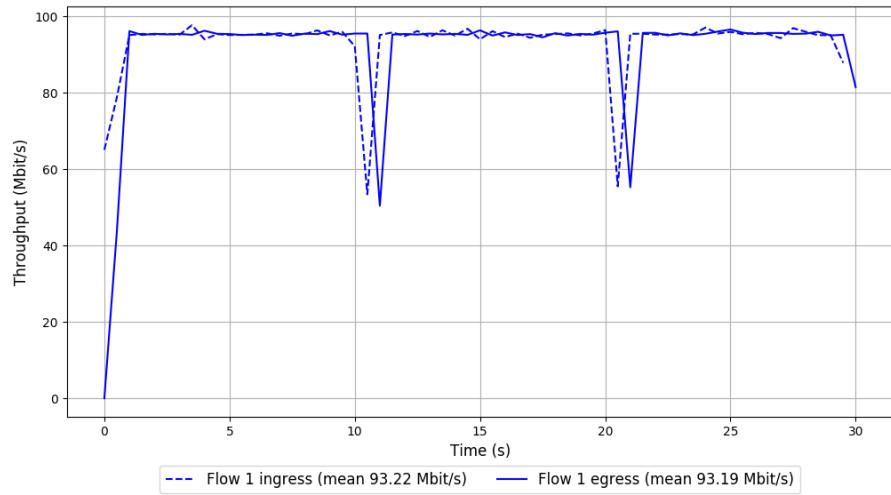


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-12-11 12:30:43
End at: 2019-12-11 12:31:13
Local clock offset: 3.494 ms
Remote clock offset: -4.624 ms

# Below is generated by plot.py at 2019-12-11 13:17:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 25.468 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 25.468 ms
Loss rate: 0.18%
```

Run 4: Report of FillP-Sheep — Data Link

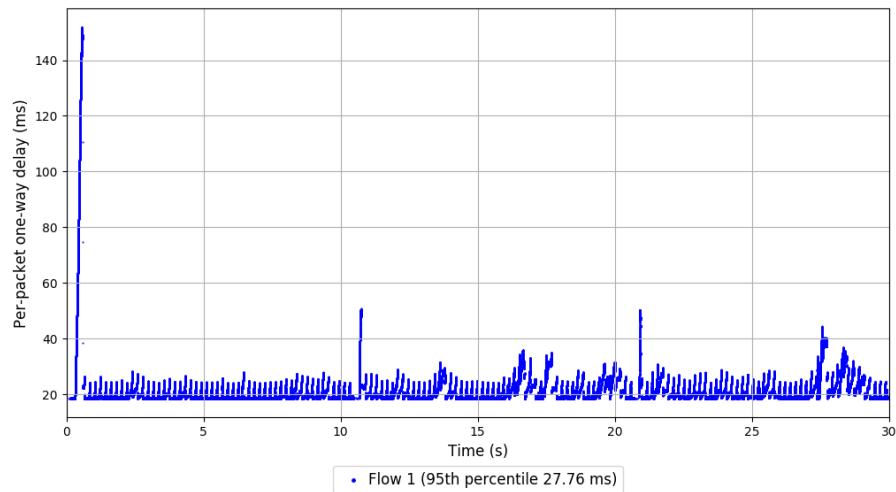
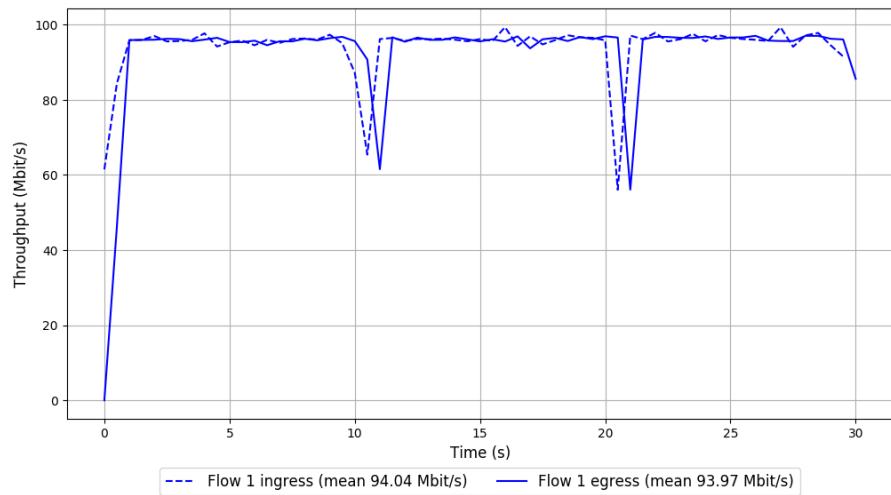


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-12-11 13:00:22
End at: 2019-12-11 13:00:52
Local clock offset: 6.203 ms
Remote clock offset: -1.416 ms

# Below is generated by plot.py at 2019-12-11 13:18:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.97 Mbit/s
95th percentile per-packet one-way delay: 27.758 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 93.97 Mbit/s
95th percentile per-packet one-way delay: 27.758 ms
Loss rate: 0.23%
```

Run 5: Report of FillP-Sheep — Data Link

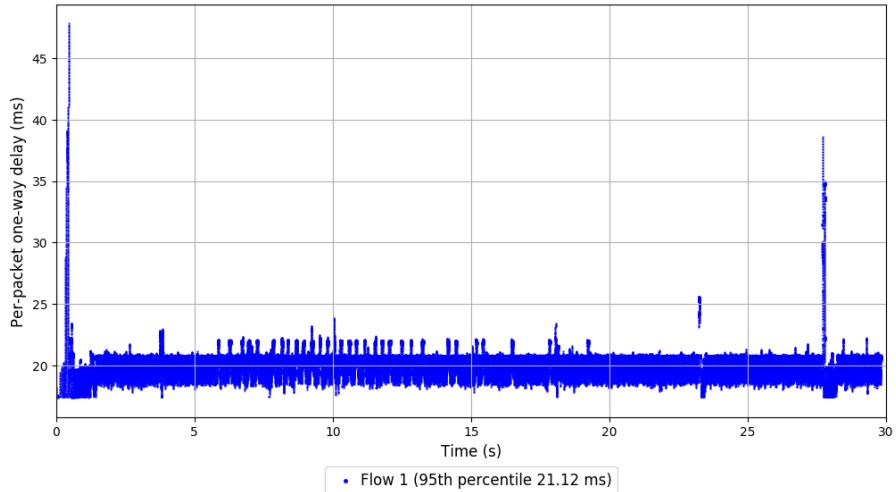
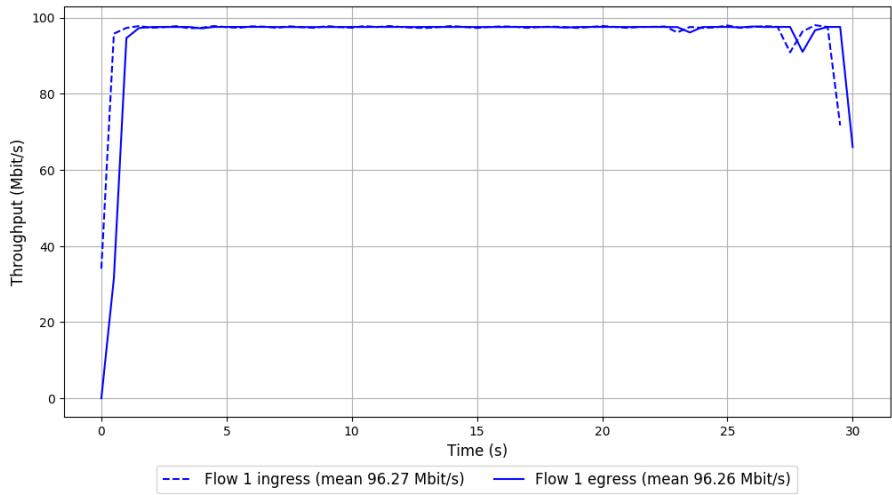


Run 1: Statistics of Indigo

```
Start at: 2019-12-11 10:53:08
End at: 2019-12-11 10:53:38
Local clock offset: 5.472 ms
Remote clock offset: -4.155 ms

# Below is generated by plot.py at 2019-12-11 13:18:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 21.123 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 21.123 ms
Loss rate: 0.17%
```

Run 1: Report of Indigo — Data Link

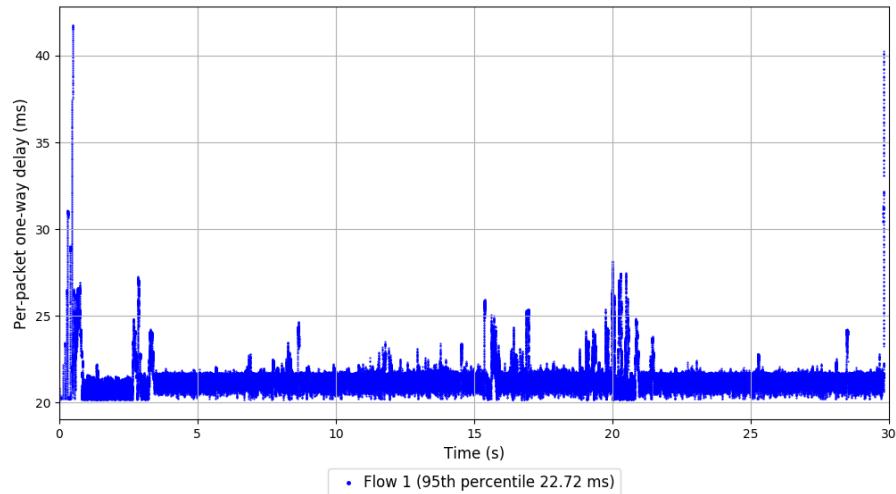
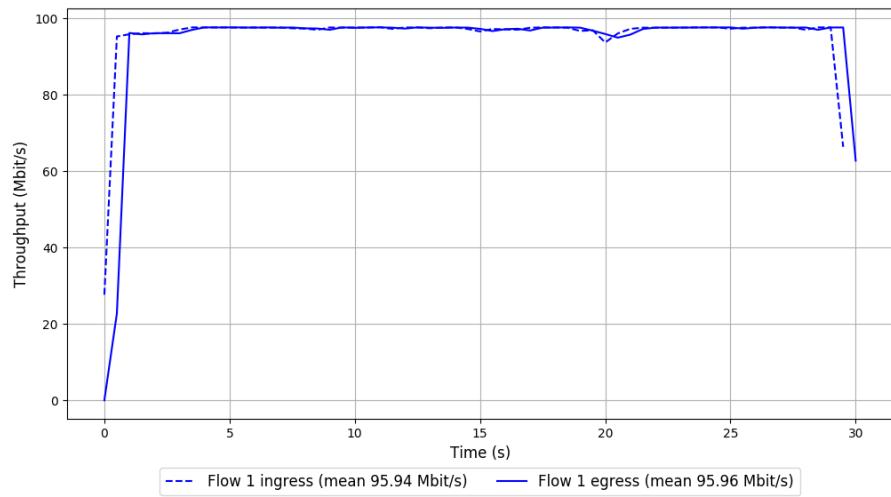


Run 2: Statistics of Indigo

```
Start at: 2019-12-11 11:21:48
End at: 2019-12-11 11:22:18
Local clock offset: 7.379 ms
Remote clock offset: -4.13 ms

# Below is generated by plot.py at 2019-12-11 13:18:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 22.716 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 22.716 ms
Loss rate: 0.14%
```

Run 2: Report of Indigo — Data Link

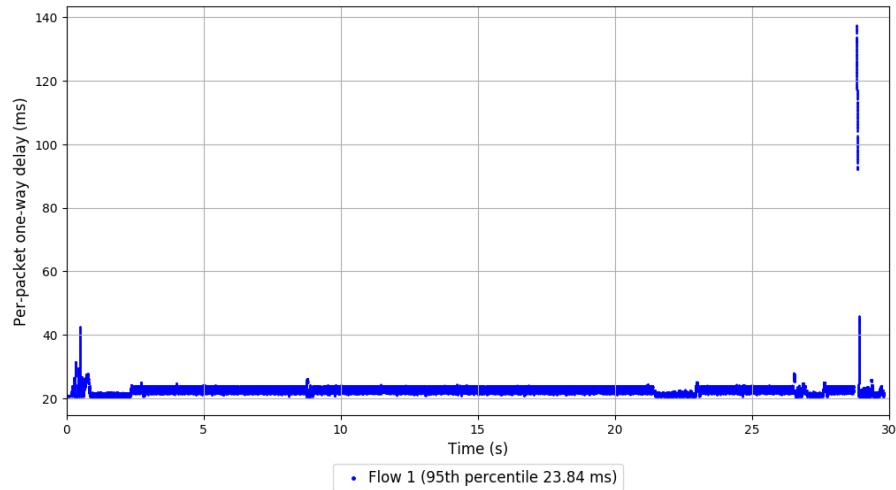
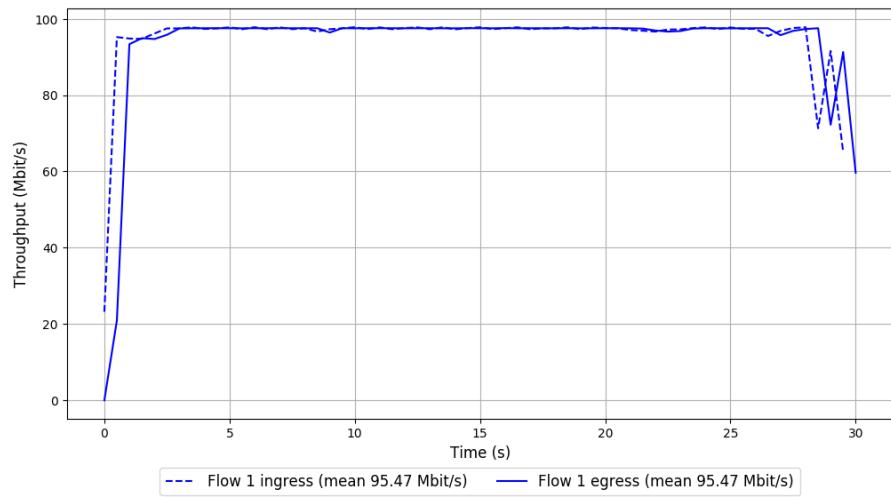


Run 3: Statistics of Indigo

```
Start at: 2019-12-11 11:50:06
End at: 2019-12-11 11:50:36
Local clock offset: 5.417 ms
Remote clock offset: -4.046 ms

# Below is generated by plot.py at 2019-12-11 13:18:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 23.845 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 23.845 ms
Loss rate: 0.16%
```

Run 3: Report of Indigo — Data Link

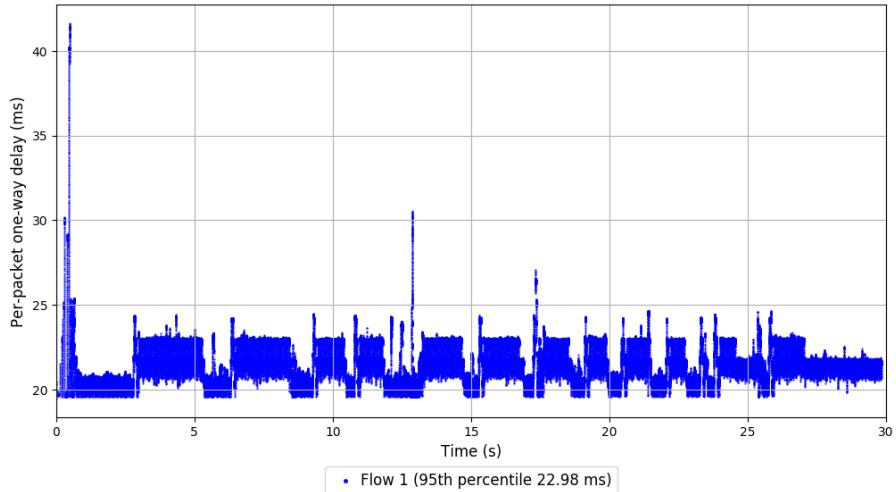
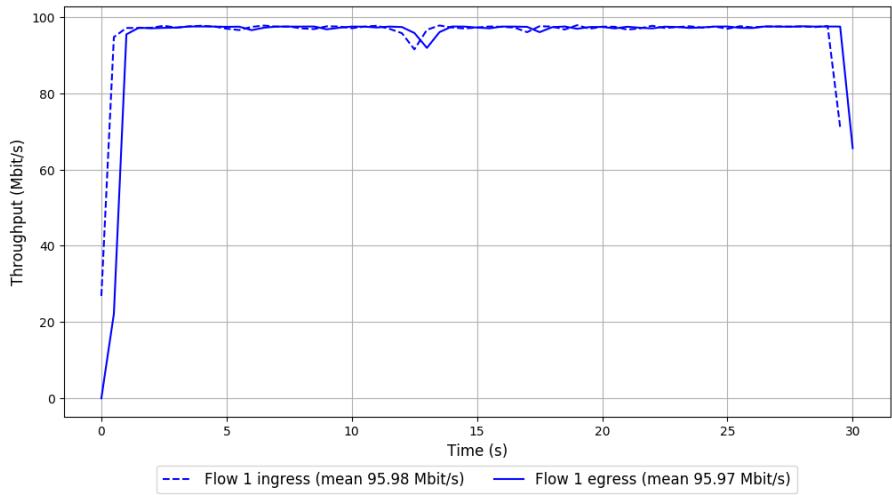


Run 4: Statistics of Indigo

```
Start at: 2019-12-11 12:18:21
End at: 2019-12-11 12:18:51
Local clock offset: 3.87 ms
Remote clock offset: -4.457 ms

# Below is generated by plot.py at 2019-12-11 13:18:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 22.981 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 22.981 ms
Loss rate: 0.17%
```

Run 4: Report of Indigo — Data Link

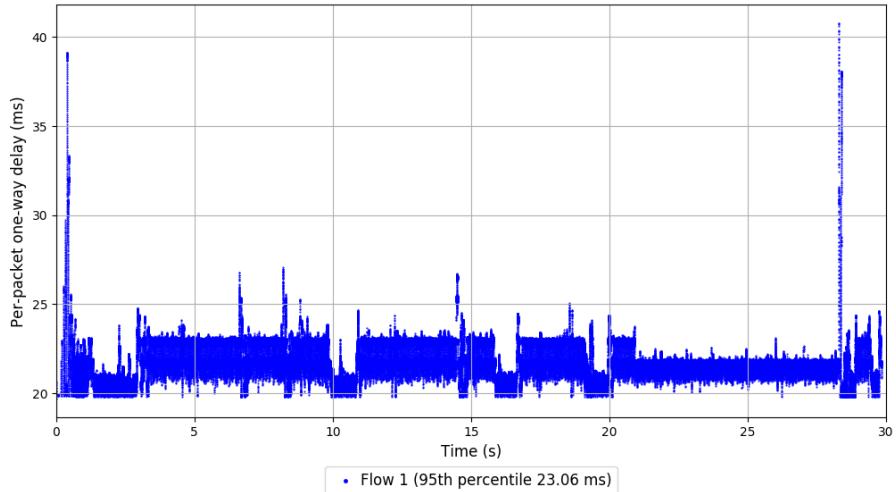
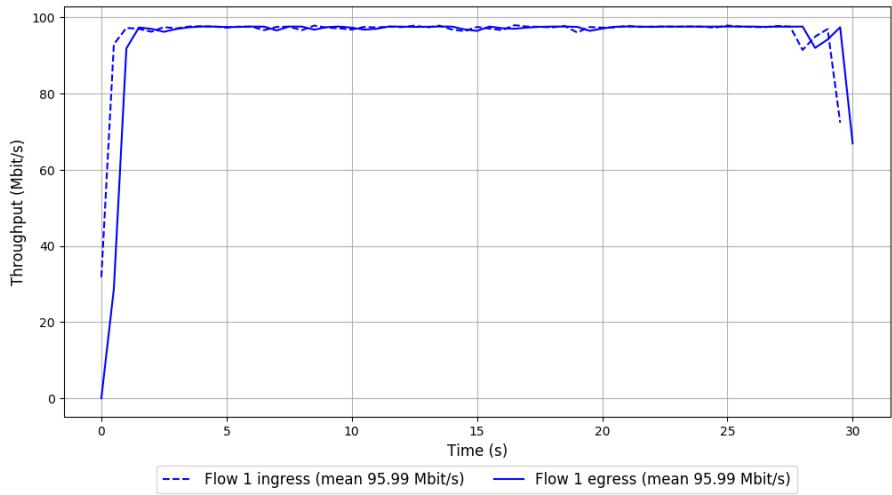


Run 5: Statistics of Indigo

```
Start at: 2019-12-11 12:47:42
End at: 2019-12-11 12:48:12
Local clock offset: 5.007 ms
Remote clock offset: -3.651 ms

# Below is generated by plot.py at 2019-12-11 13:18:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 23.056 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 23.056 ms
Loss rate: 0.16%
```

Run 5: Report of Indigo — Data Link

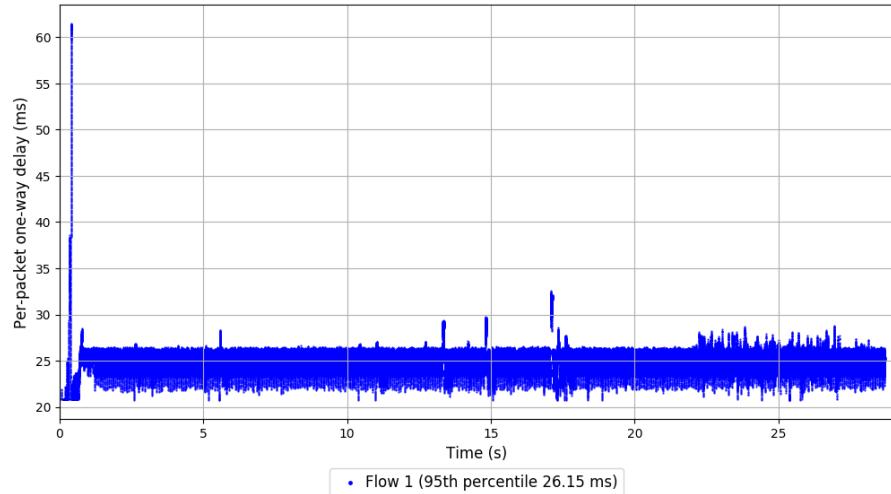
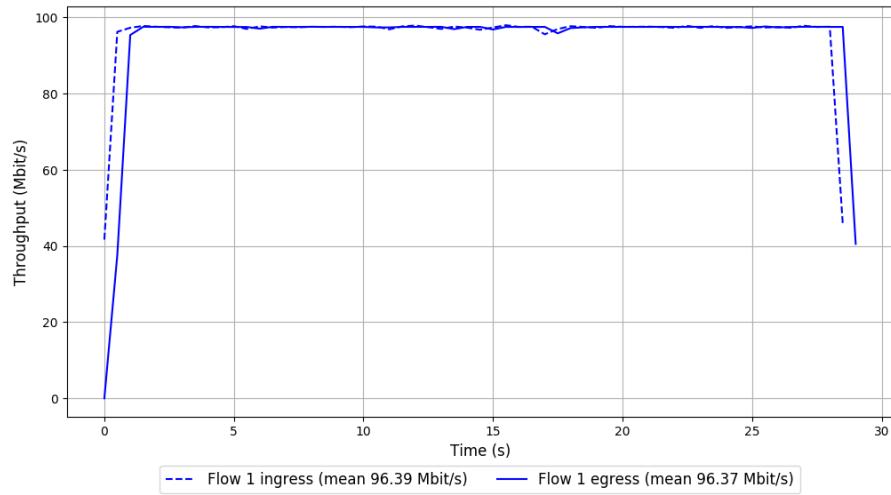


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-12-11 11:03:39
End at: 2019-12-11 11:04:09
Local clock offset: 7.08 ms
Remote clock offset: -5.678 ms

# Below is generated by plot.py at 2019-12-11 13:18:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.37 Mbit/s
95th percentile per-packet one-way delay: 26.148 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 96.37 Mbit/s
95th percentile per-packet one-way delay: 26.148 ms
Loss rate: 0.18%
```

Run 1: Report of Indigo-MusesC3 — Data Link

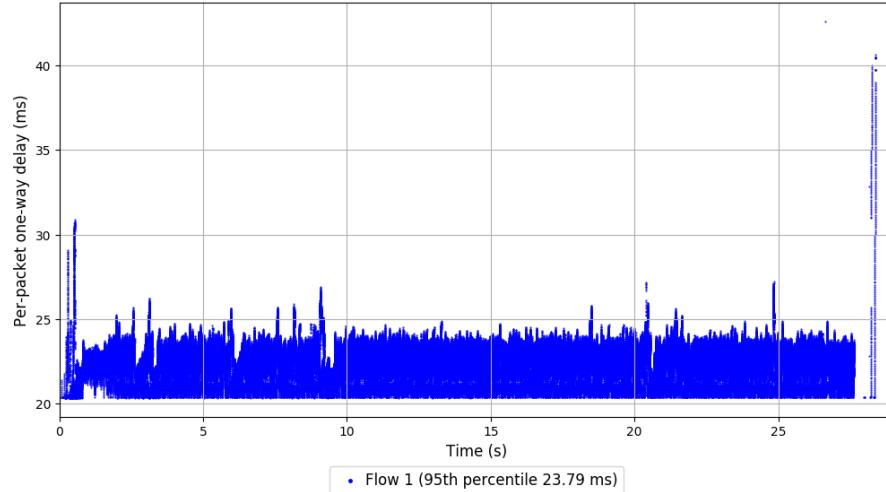
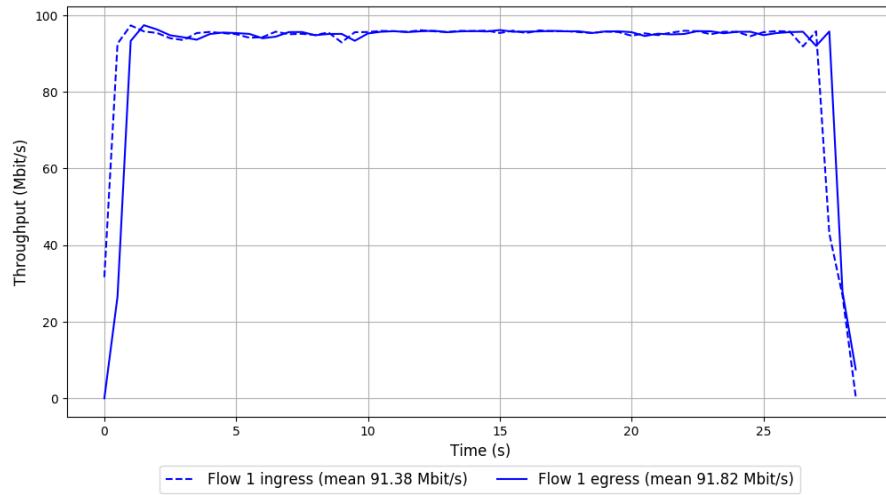


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-12-11 11:32:30
End at: 2019-12-11 11:33:00
Local clock offset: 7.844 ms
Remote clock offset: -3.541 ms

# Below is generated by plot.py at 2019-12-11 13:19:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.82 Mbit/s
95th percentile per-packet one-way delay: 23.787 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 91.82 Mbit/s
95th percentile per-packet one-way delay: 23.787 ms
Loss rate: 0.75%
```

Run 2: Report of Indigo-MusesC3 — Data Link

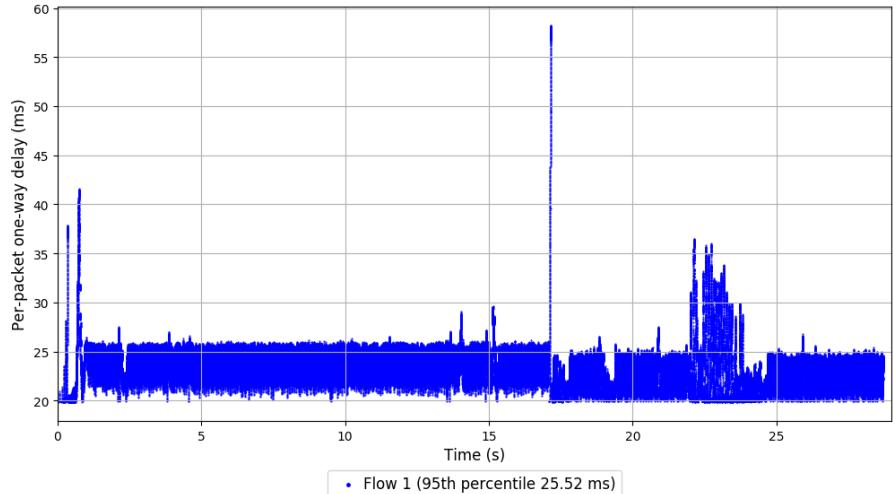
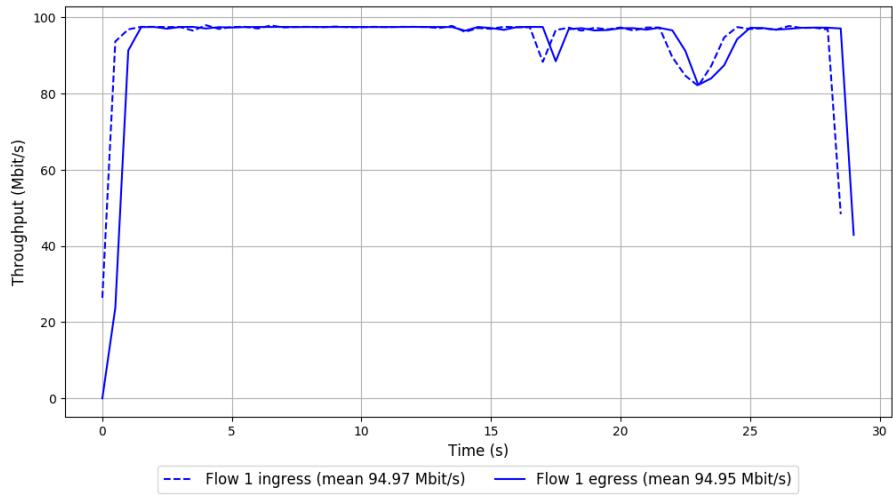


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-12-11 12:00:46
End at: 2019-12-11 12:01:16
Local clock offset: 3.635 ms
Remote clock offset: -4.544 ms

# Below is generated by plot.py at 2019-12-11 13:19:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.95 Mbit/s
95th percentile per-packet one-way delay: 25.519 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 94.95 Mbit/s
95th percentile per-packet one-way delay: 25.519 ms
Loss rate: 0.18%
```

Run 3: Report of Indigo-MusesC3 — Data Link

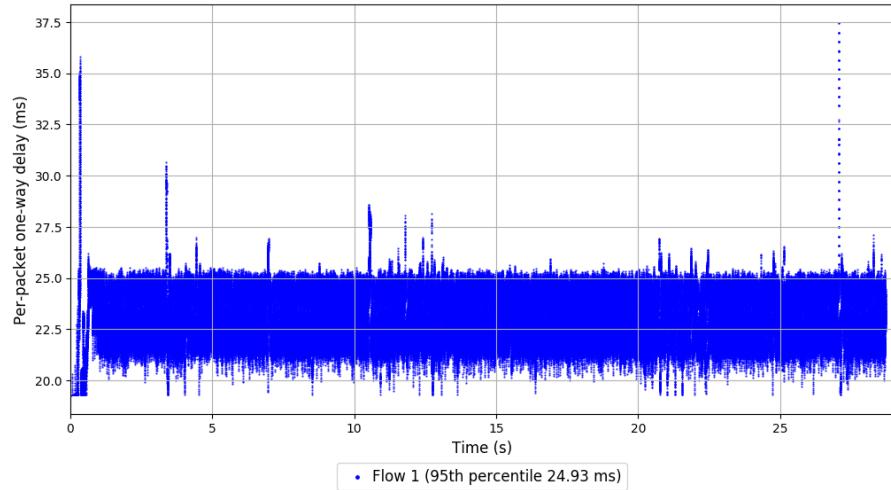
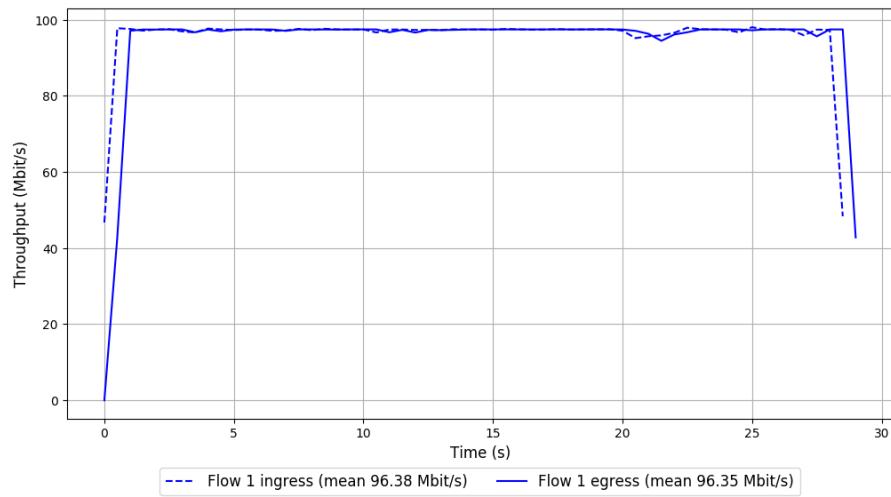


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-12-11 12:29:30
End at: 2019-12-11 12:30:00
Local clock offset: -1.38 ms
Remote clock offset: -8.925 ms

# Below is generated by plot.py at 2019-12-11 13:19:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 24.933 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 24.933 ms
Loss rate: 0.20%
```

Run 4: Report of Indigo-MusesC3 — Data Link

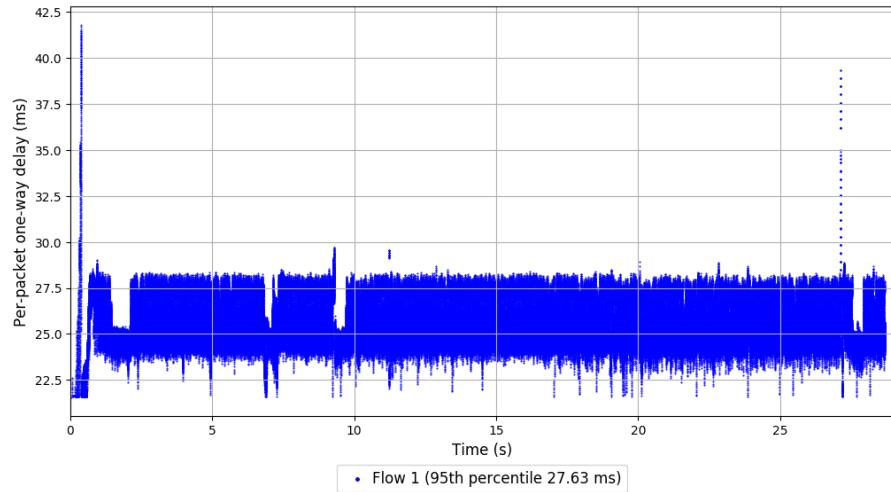
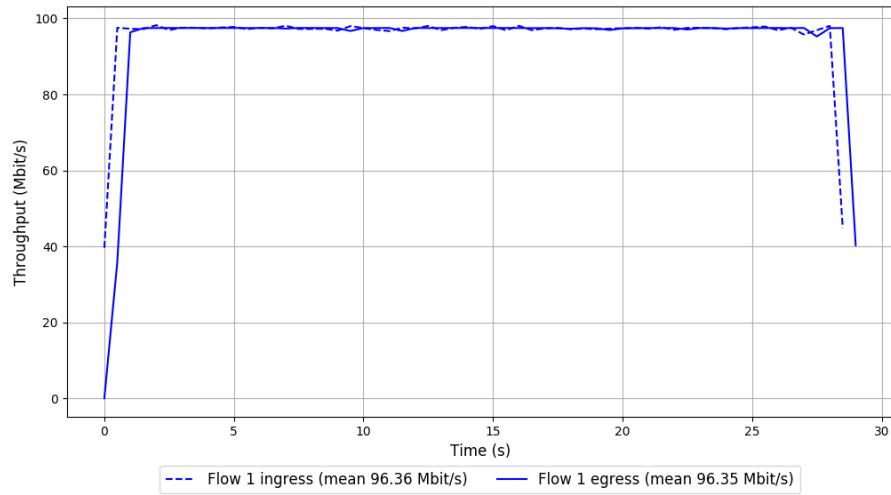


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-12-11 12:59:09
End at: 2019-12-11 12:59:39
Local clock offset: 5.485 ms
Remote clock offset: -5.175 ms

# Below is generated by plot.py at 2019-12-11 13:19:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 27.627 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 27.627 ms
Loss rate: 0.18%
```

Run 5: Report of Indigo-MusesC3 — Data Link

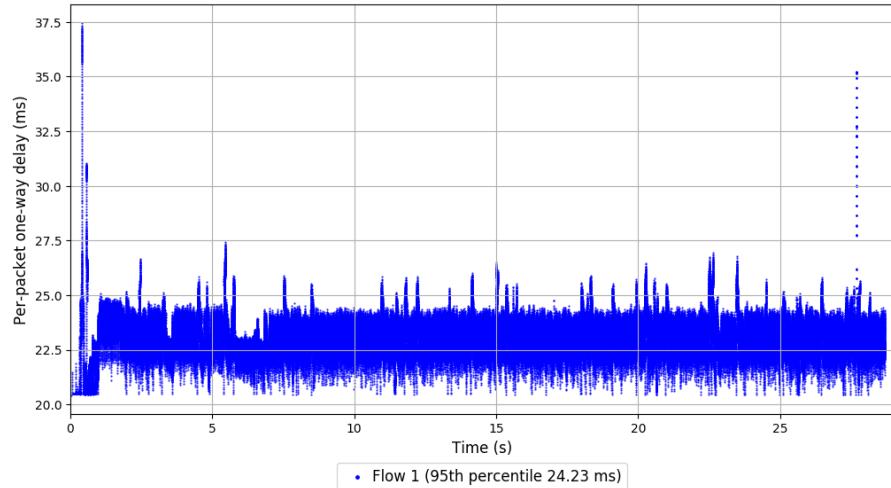
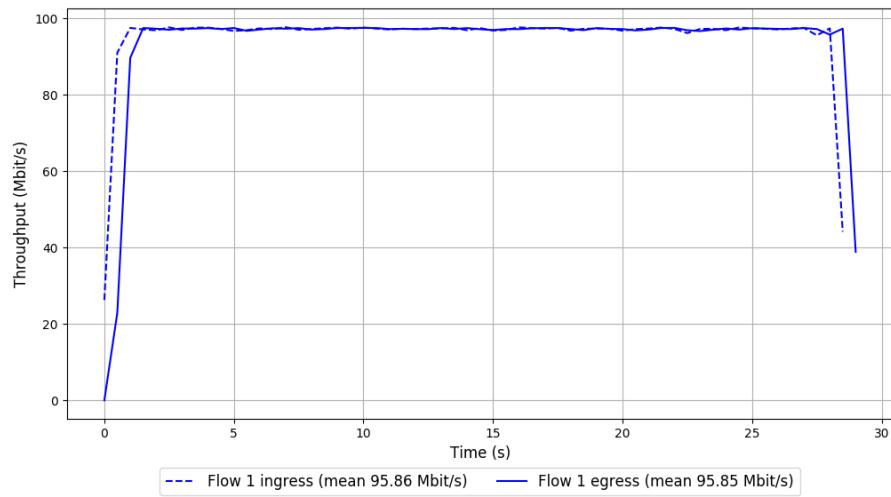


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-12-11 10:46:58
End at: 2019-12-11 10:47:28
Local clock offset: 5.514 ms
Remote clock offset: -7.123 ms

# Below is generated by plot.py at 2019-12-11 13:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 24.227 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 24.227 ms
Loss rate: 0.18%
```

Run 1: Report of Indigo-MusesC5 — Data Link

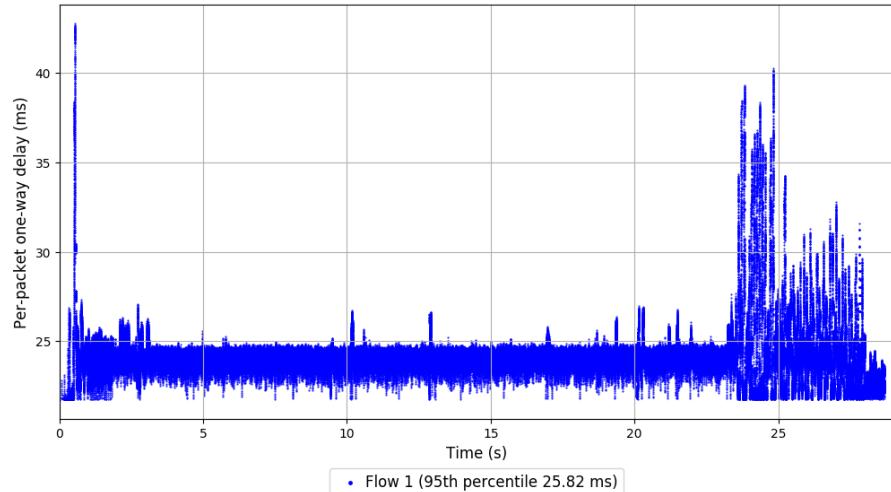
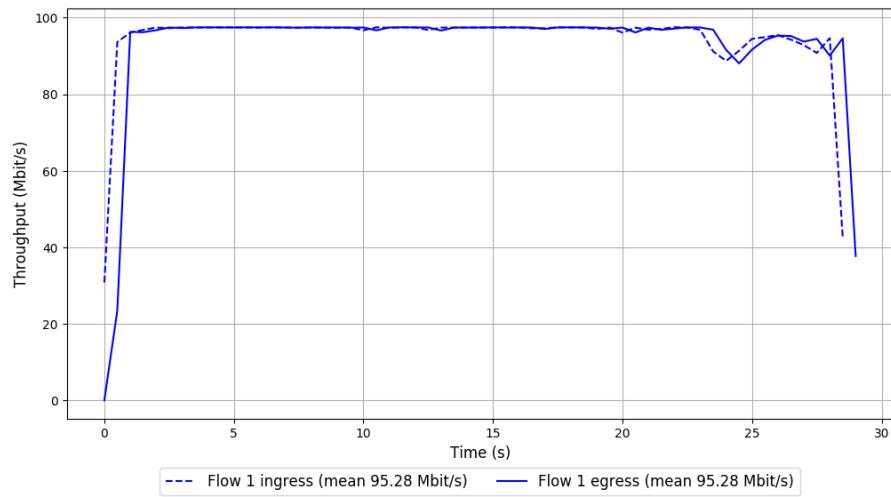


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-12-11 11:15:54
End at: 2019-12-11 11:16:24
Local clock offset: 6.83 ms
Remote clock offset: -6.475 ms

# Below is generated by plot.py at 2019-12-11 13:19:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 25.819 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 25.819 ms
Loss rate: 0.17%
```

Run 2: Report of Indigo-MusesC5 — Data Link

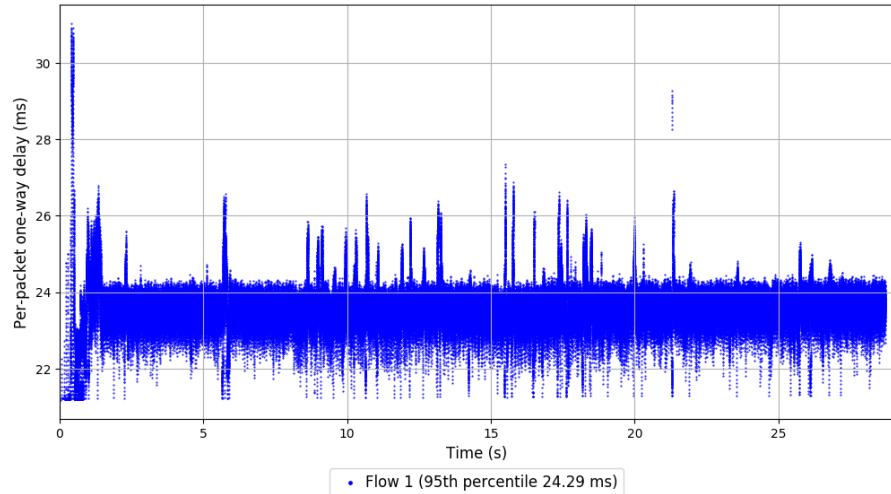
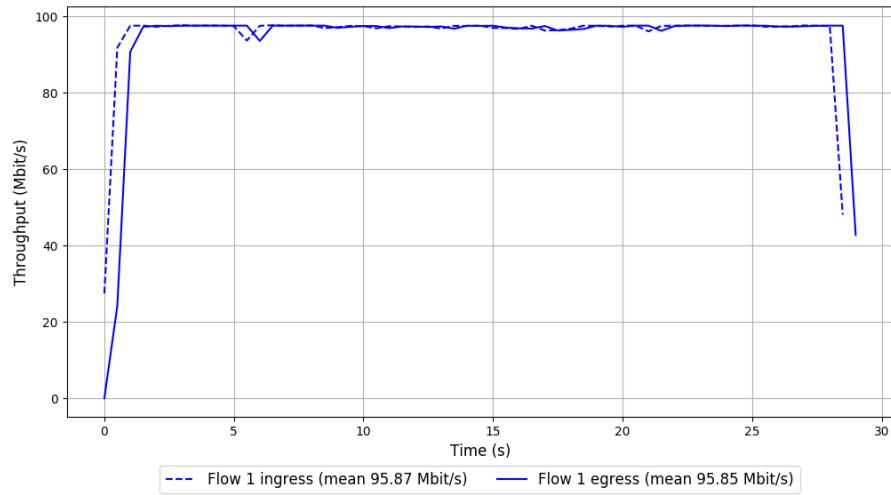


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-12-11 11:44:22
End at: 2019-12-11 11:44:52
Local clock offset: 6.269 ms
Remote clock offset: -4.491 ms

# Below is generated by plot.py at 2019-12-11 13:19:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 24.286 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 24.286 ms
Loss rate: 0.18%
```

Run 3: Report of Indigo-MusesC5 — Data Link

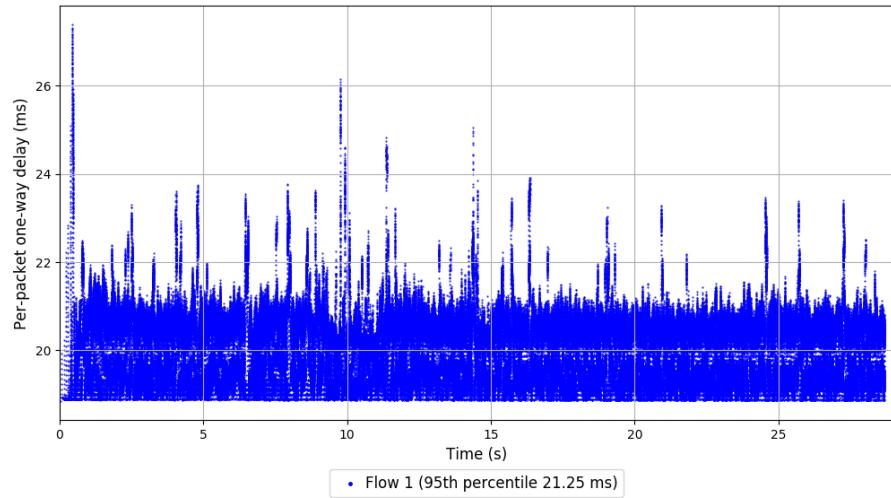
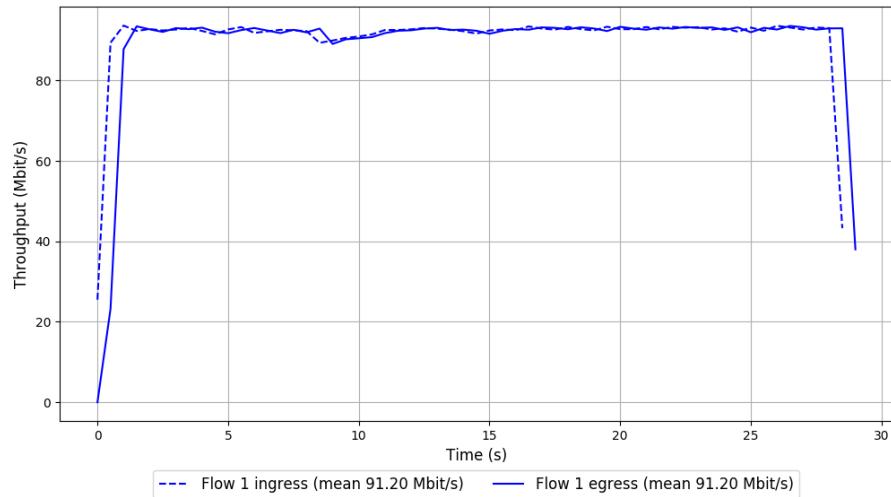


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-12-11 12:12:38
End at: 2019-12-11 12:13:08
Local clock offset: 4.471 ms
Remote clock offset: -3.031 ms

# Below is generated by plot.py at 2019-12-11 13:19:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 21.253 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 21.253 ms
Loss rate: 0.17%
```

Run 4: Report of Indigo-MusesC5 — Data Link

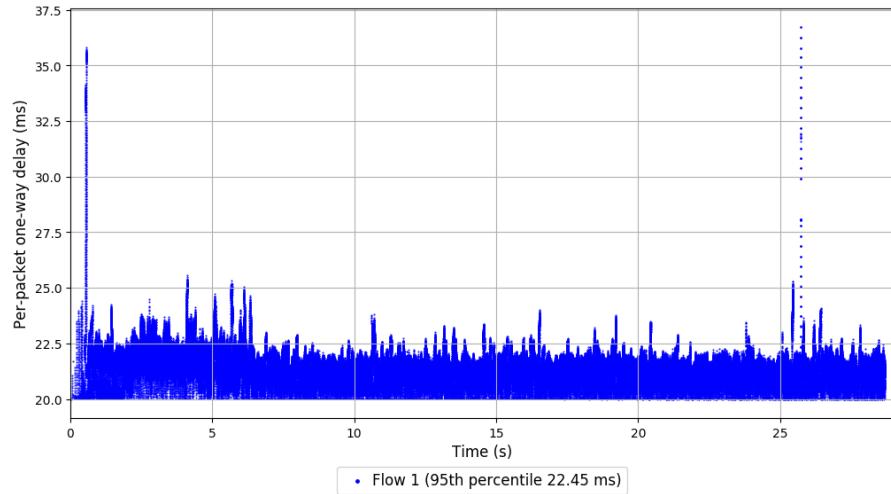
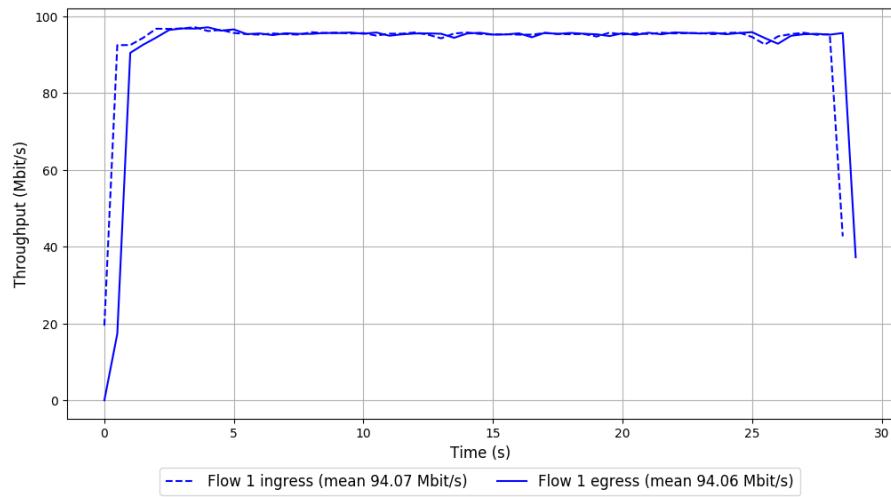


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-12-11 12:41:45
End at: 2019-12-11 12:42:15
Local clock offset: 3.768 ms
Remote clock offset: -4.546 ms

# Below is generated by plot.py at 2019-12-11 13:20:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.06 Mbit/s
95th percentile per-packet one-way delay: 22.452 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 94.06 Mbit/s
95th percentile per-packet one-way delay: 22.452 ms
Loss rate: 0.17%
```

Run 5: Report of Indigo-MusesC5 — Data Link

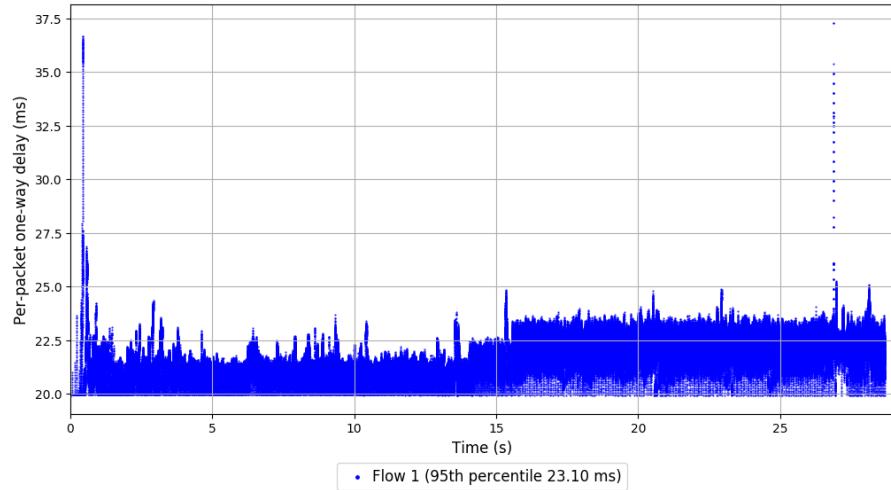
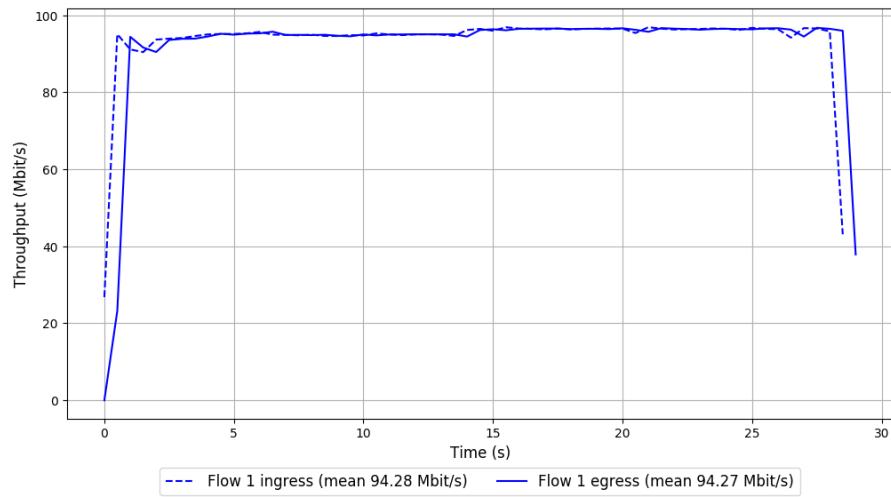


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-12-11 10:48:15
End at: 2019-12-11 10:48:45
Local clock offset: 5.908 ms
Remote clock offset: -6.398 ms

# Below is generated by plot.py at 2019-12-11 13:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 23.104 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 23.104 ms
Loss rate: 0.17%
```

Run 1: Report of Indigo-MusesD — Data Link

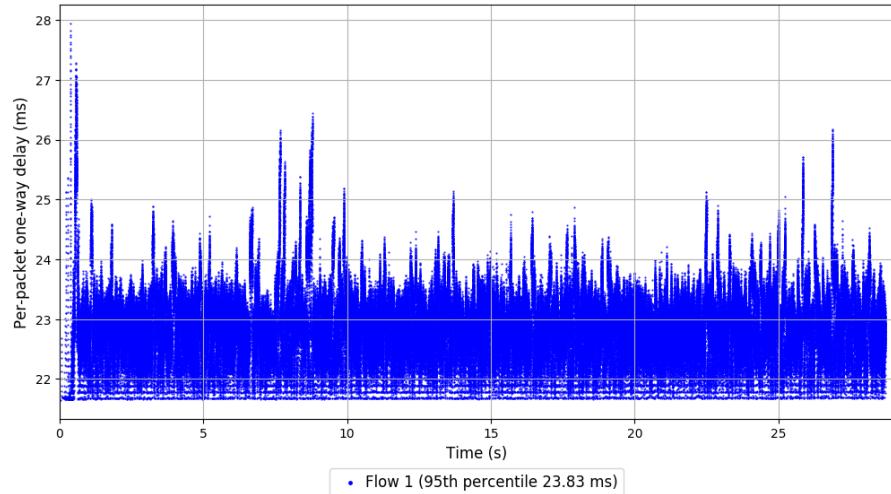
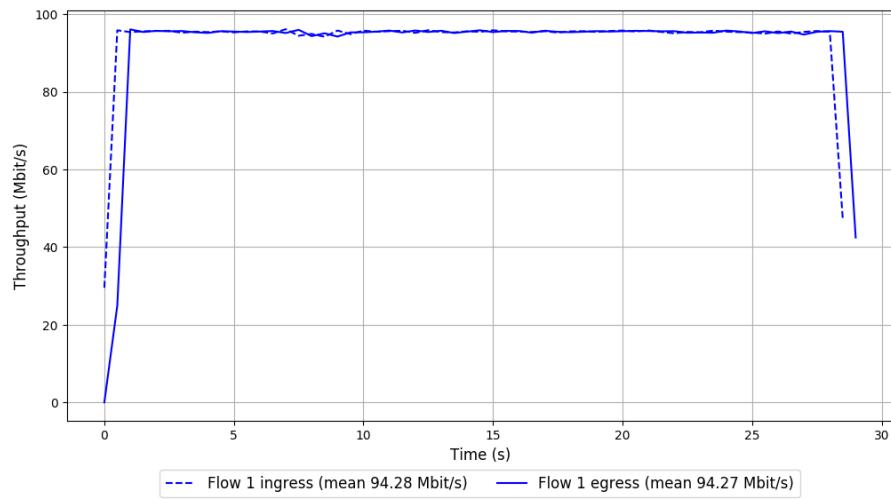


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-12-11 11:17:09
End at: 2019-12-11 11:17:39
Local clock offset: 6.918 ms
Remote clock offset: -6.166 ms

# Below is generated by plot.py at 2019-12-11 13:20:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 23.829 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 23.829 ms
Loss rate: 0.17%
```

Run 2: Report of Indigo-MusesD — Data Link

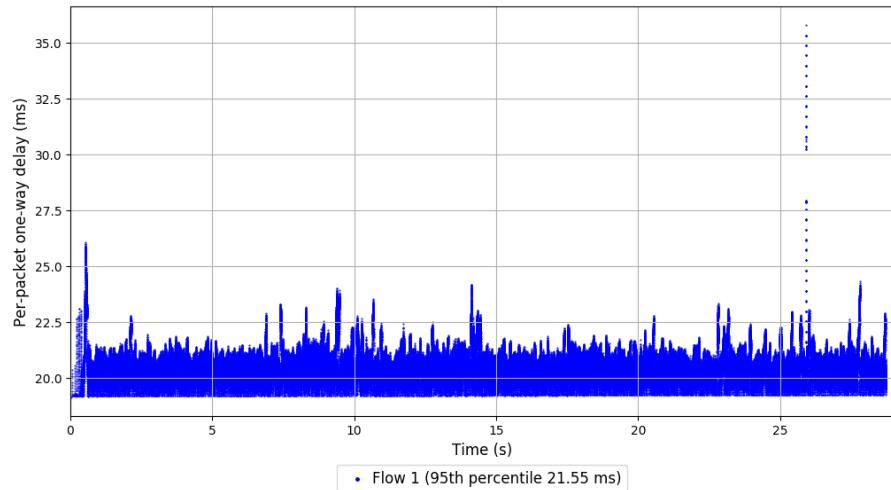
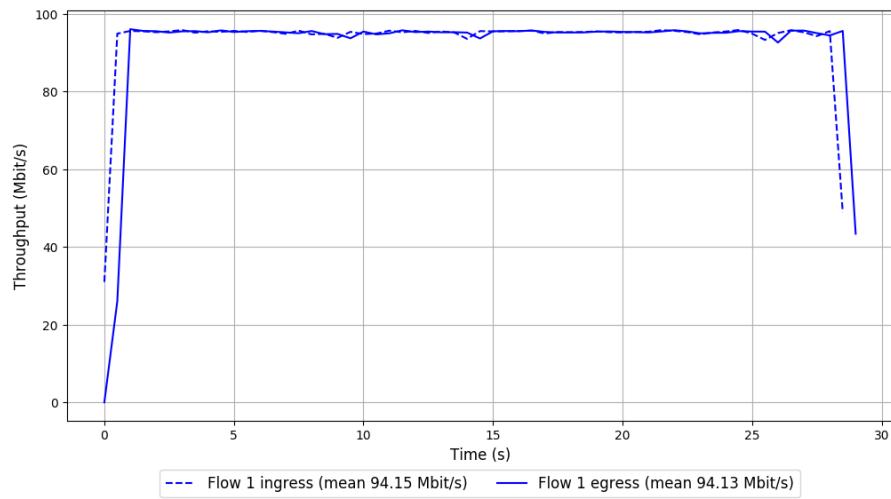


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-12-11 11:45:32
End at: 2019-12-11 11:46:02
Local clock offset: 6.192 ms
Remote clock offset: -2.291 ms

# Below is generated by plot.py at 2019-12-11 13:20:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.13 Mbit/s
95th percentile per-packet one-way delay: 21.555 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 94.13 Mbit/s
95th percentile per-packet one-way delay: 21.555 ms
Loss rate: 0.18%
```

Run 3: Report of Indigo-MusesD — Data Link

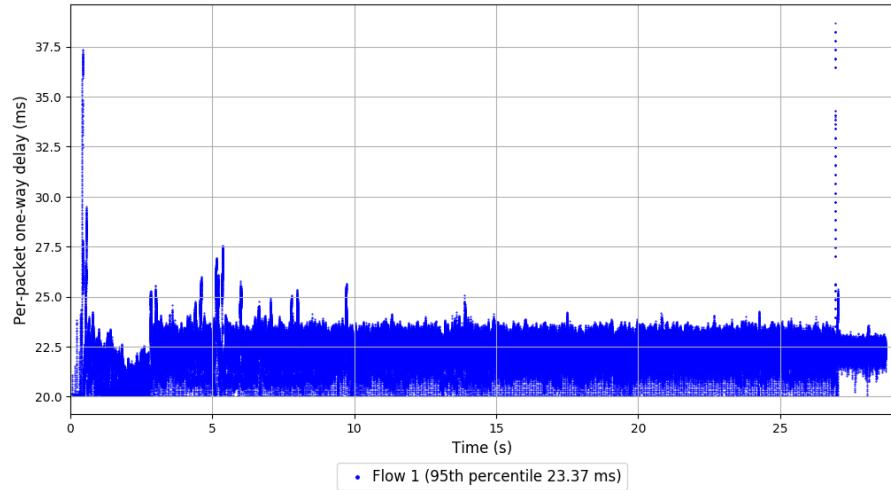
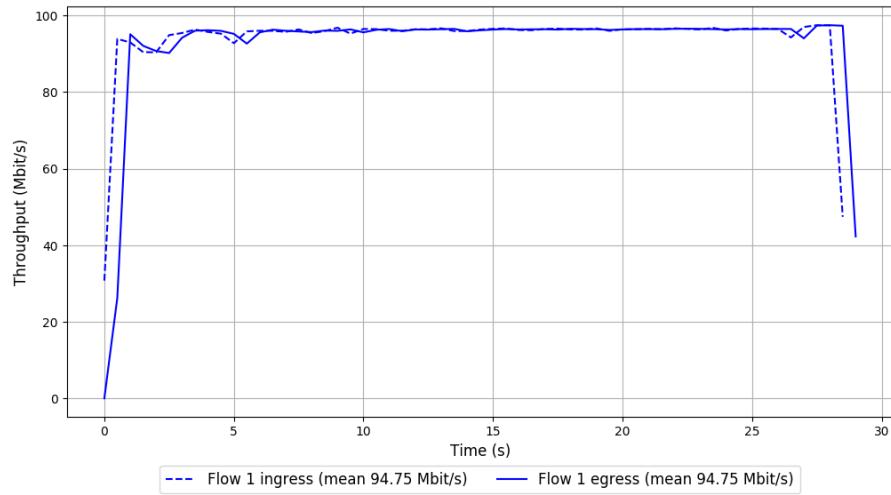


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-12-11 12:13:47
End at: 2019-12-11 12:14:17
Local clock offset: 3.751 ms
Remote clock offset: -4.829 ms

# Below is generated by plot.py at 2019-12-11 13:20:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.75 Mbit/s
95th percentile per-packet one-way delay: 23.371 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 94.75 Mbit/s
95th percentile per-packet one-way delay: 23.371 ms
Loss rate: 0.18%
```

Run 4: Report of Indigo-MusesD — Data Link

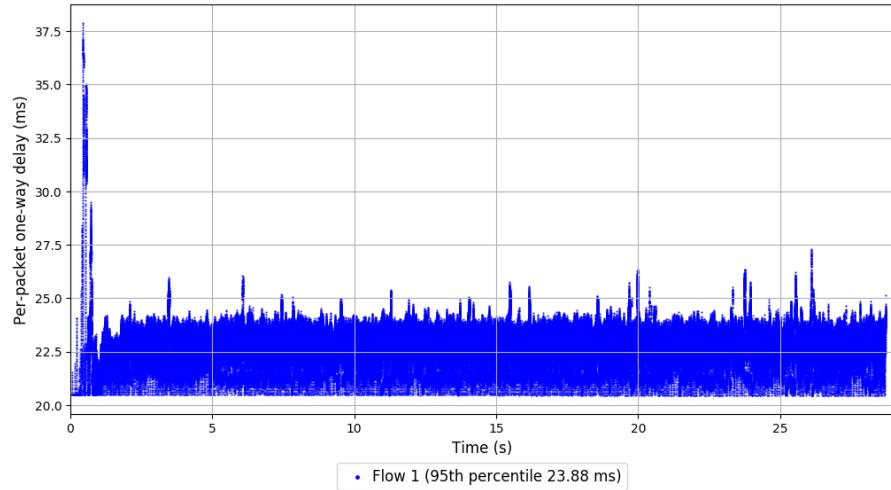
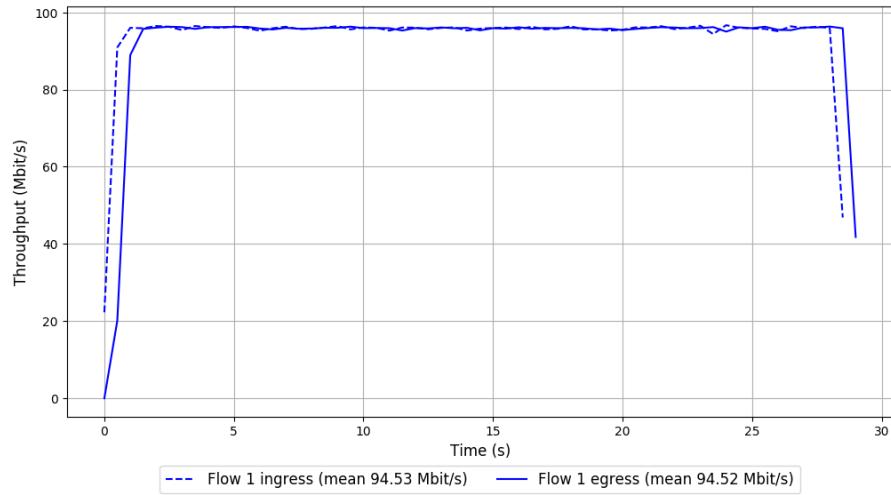


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-12-11 12:42:58
End at: 2019-12-11 12:43:28
Local clock offset: 3.67 ms
Remote clock offset: -5.228 ms

# Below is generated by plot.py at 2019-12-11 13:20:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.52 Mbit/s
95th percentile per-packet one-way delay: 23.877 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 94.52 Mbit/s
95th percentile per-packet one-way delay: 23.877 ms
Loss rate: 0.17%
```

Run 5: Report of Indigo-MusesD — Data Link

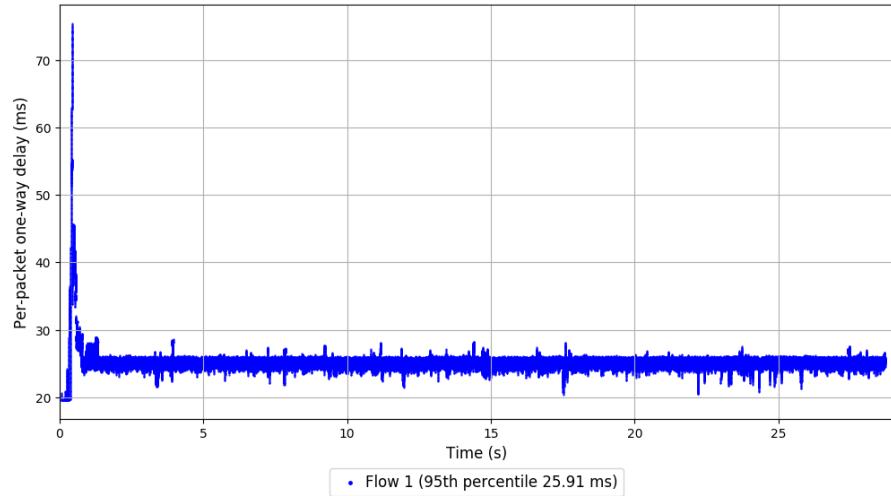
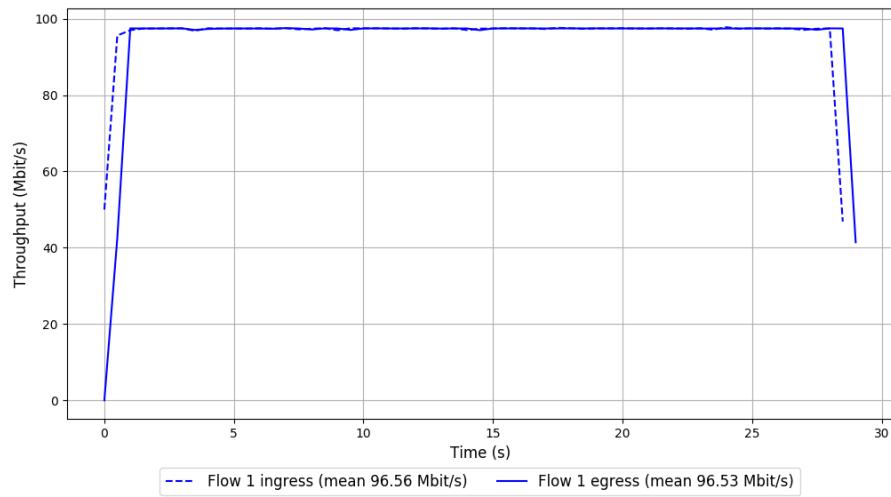


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-12-11 10:57:51
End at: 2019-12-11 10:58:21
Local clock offset: 6.139 ms
Remote clock offset: -5.712 ms

# Below is generated by plot.py at 2019-12-11 13:20:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 25.912 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 25.912 ms
Loss rate: 0.19%
```

Run 1: Report of Indigo-MusesT — Data Link

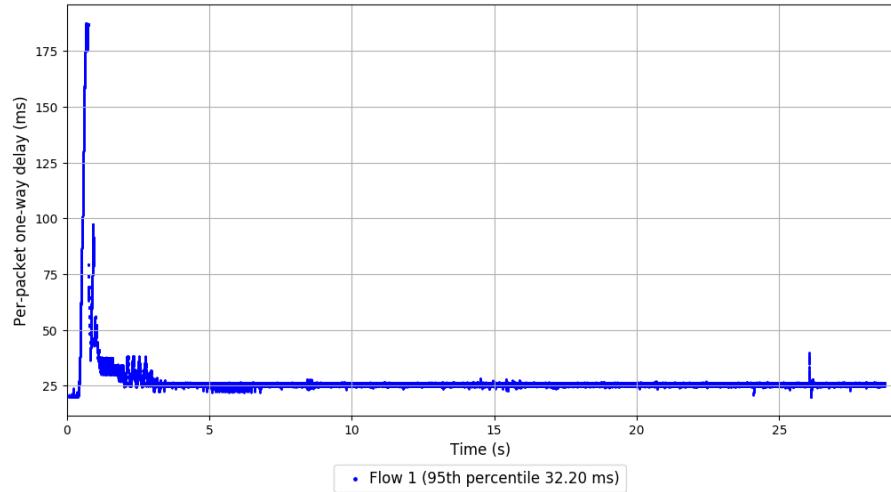
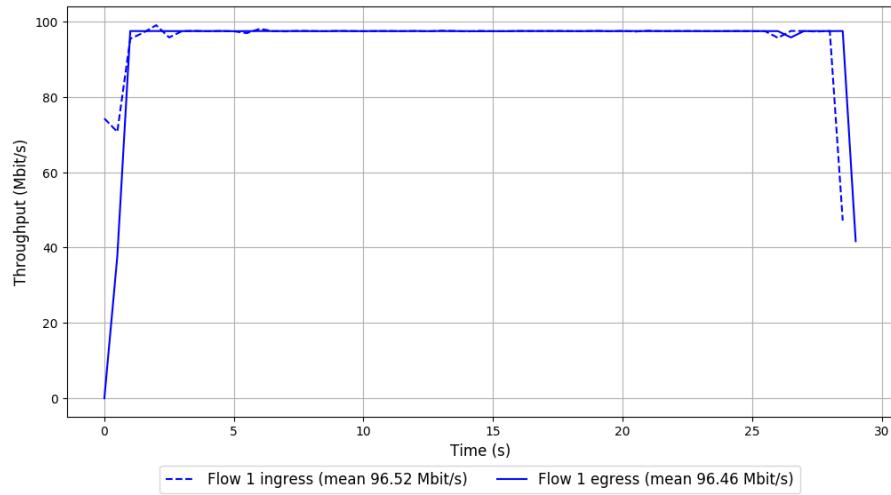


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-12-11 11:26:34
End at: 2019-12-11 11:27:04
Local clock offset: 7.15 ms
Remote clock offset: -3.984 ms

# Below is generated by plot.py at 2019-12-11 13:21:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.46 Mbit/s
95th percentile per-packet one-way delay: 32.203 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 96.46 Mbit/s
95th percentile per-packet one-way delay: 32.203 ms
Loss rate: 0.22%
```

Run 2: Report of Indigo-MusesT — Data Link

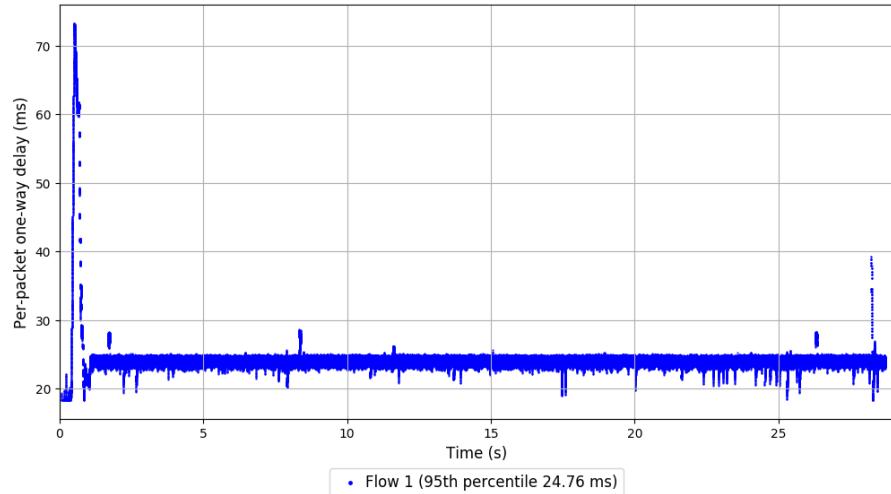
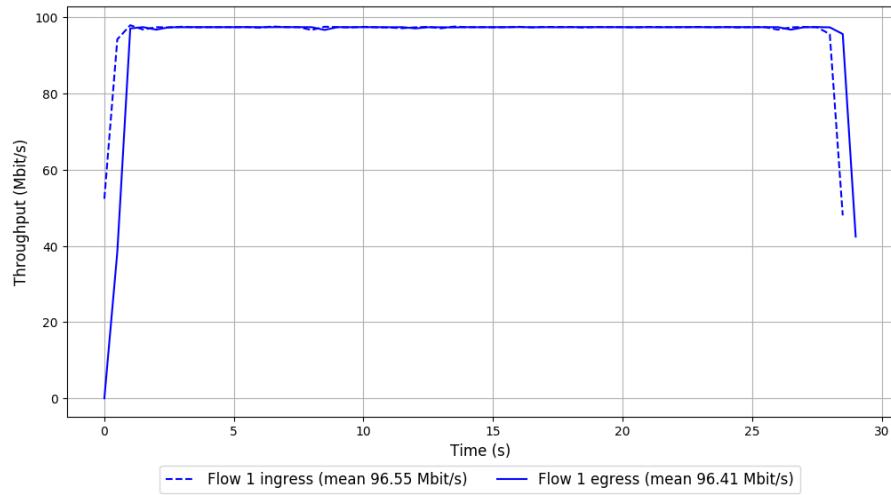


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-12-11 11:54:53
End at: 2019-12-11 11:55:23
Local clock offset: 5.115 ms
Remote clock offset: -1.824 ms

# Below is generated by plot.py at 2019-12-11 13:21:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.41 Mbit/s
95th percentile per-packet one-way delay: 24.764 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 96.41 Mbit/s
95th percentile per-packet one-way delay: 24.764 ms
Loss rate: 0.31%
```

Run 3: Report of Indigo-MusesT — Data Link

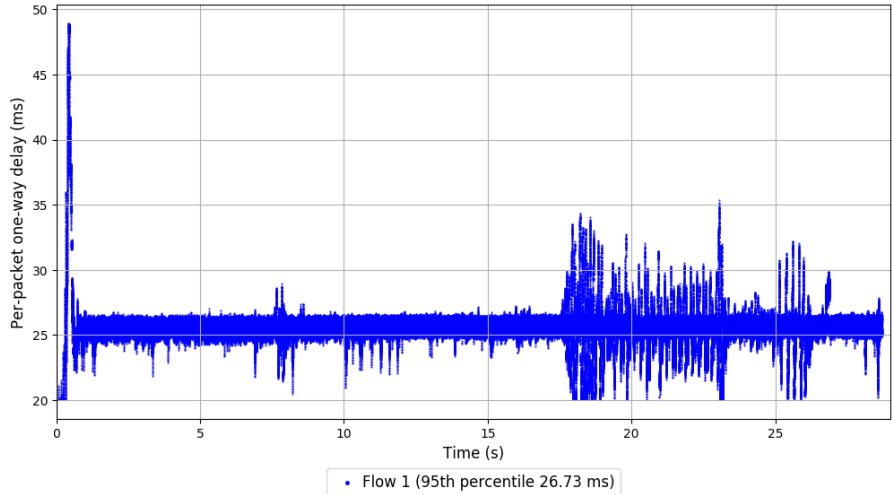
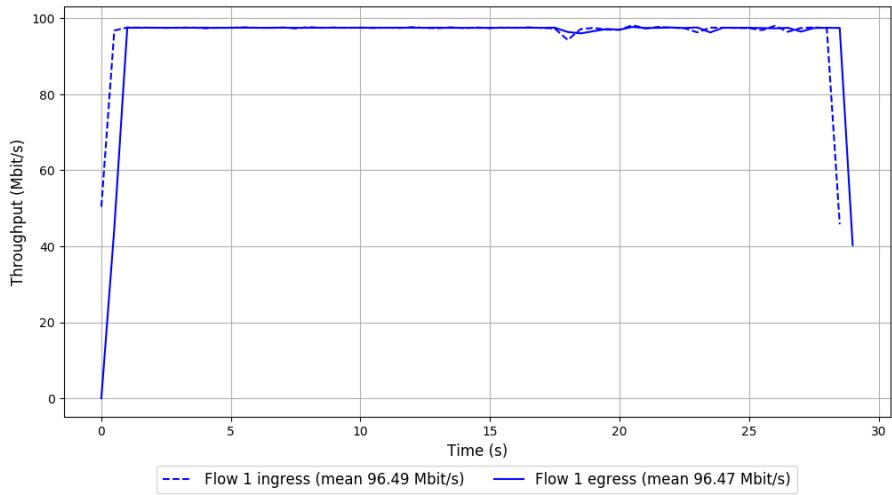


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-12-11 12:23:29
End at: 2019-12-11 12:23:59
Local clock offset: 3.905 ms
Remote clock offset: -4.498 ms

# Below is generated by plot.py at 2019-12-11 13:21:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 26.726 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 26.726 ms
Loss rate: 0.19%
```

Run 4: Report of Indigo-MusesT — Data Link

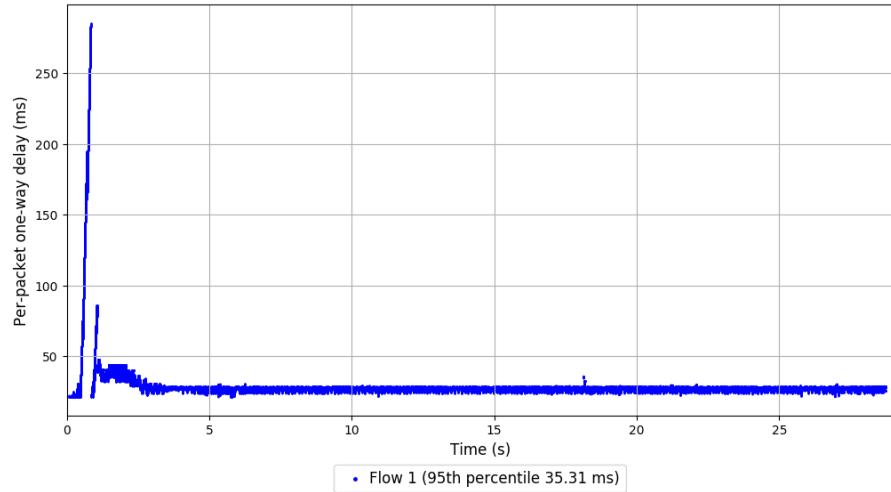
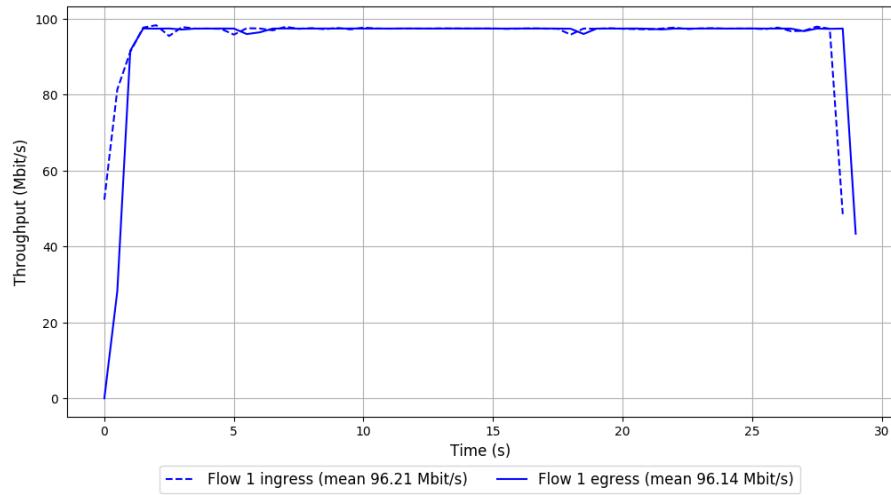


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-12-11 12:52:56
End at: 2019-12-11 12:53:26
Local clock offset: 4.822 ms
Remote clock offset: -5.267 ms

# Below is generated by plot.py at 2019-12-11 13:21:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.14 Mbit/s
95th percentile per-packet one-way delay: 35.311 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 96.14 Mbit/s
95th percentile per-packet one-way delay: 35.311 ms
Loss rate: 0.25%
```

Run 5: Report of Indigo-MusesT — Data Link

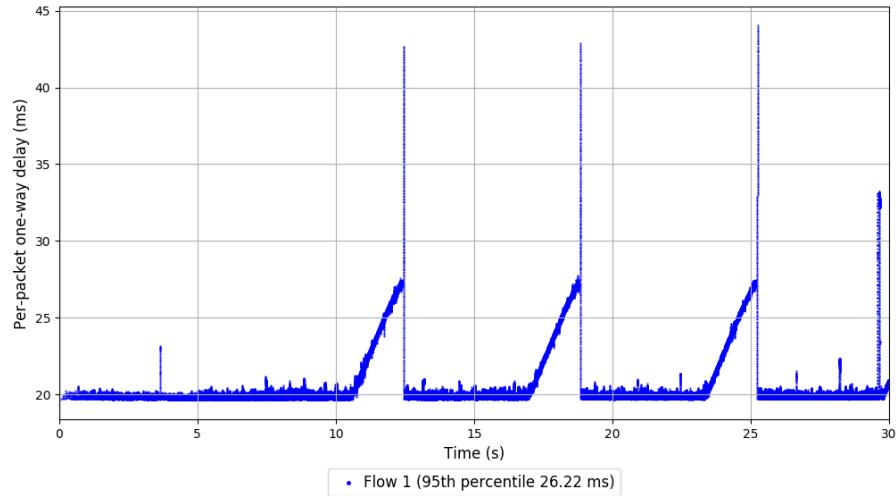
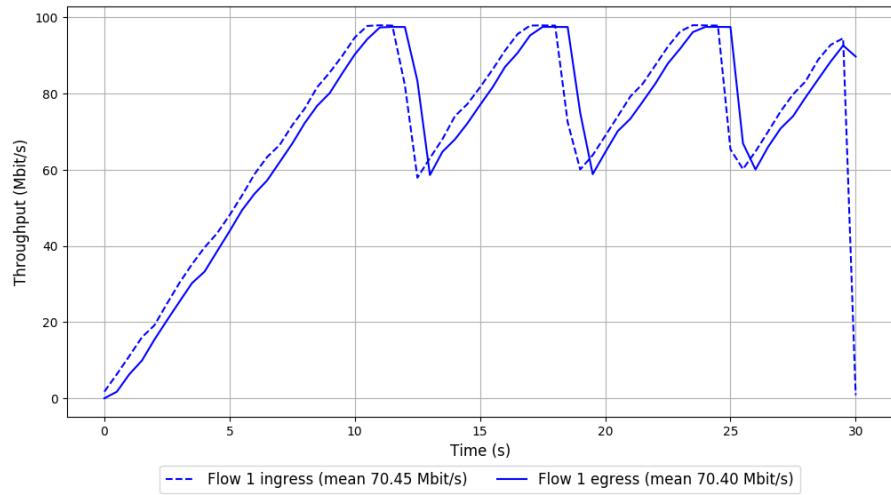


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-12-11 11:02:29
End at: 2019-12-11 11:02:59
Local clock offset: 6.055 ms
Remote clock offset: -5.571 ms

# Below is generated by plot.py at 2019-12-11 13:21:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.40 Mbit/s
95th percentile per-packet one-way delay: 26.217 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 70.40 Mbit/s
95th percentile per-packet one-way delay: 26.217 ms
Loss rate: 0.23%
```

Run 1: Report of LEDBAT — Data Link

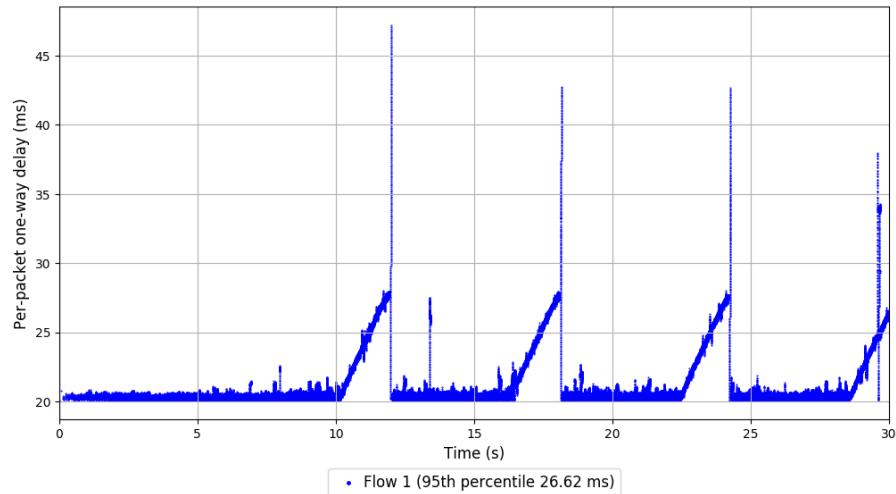
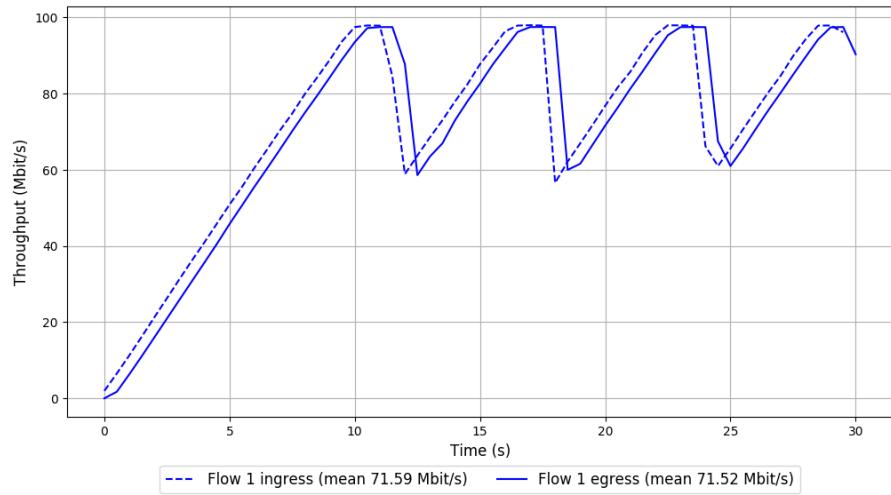


Run 2: Statistics of LEDBAT

```
Start at: 2019-12-11 11:31:19
End at: 2019-12-11 11:31:49
Local clock offset: 7.676 ms
Remote clock offset: -3.567 ms

# Below is generated by plot.py at 2019-12-11 13:21:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.52 Mbit/s
95th percentile per-packet one-way delay: 26.618 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 71.52 Mbit/s
95th percentile per-packet one-way delay: 26.618 ms
Loss rate: 0.25%
```

Run 2: Report of LEDBAT — Data Link

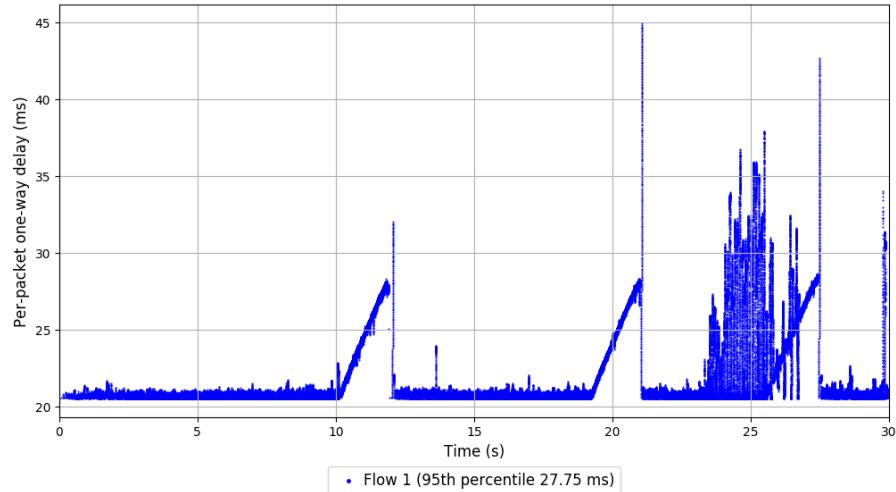
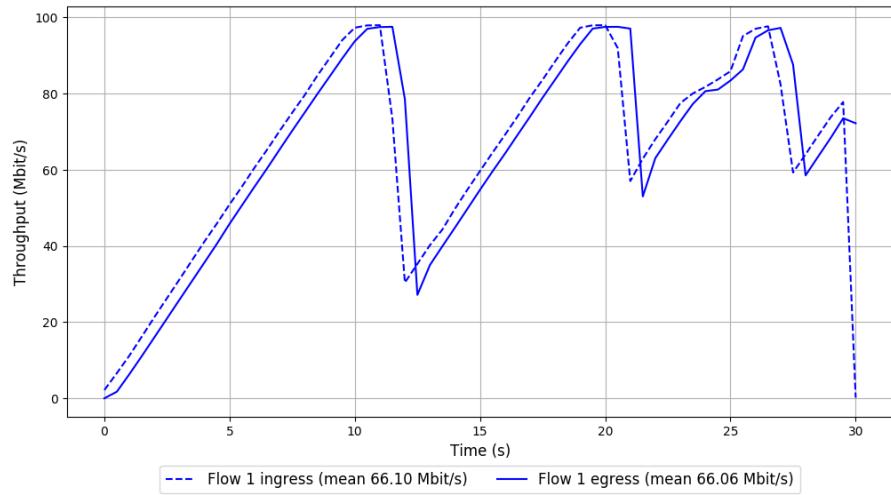


Run 3: Statistics of LEDBAT

```
Start at: 2019-12-11 11:59:34
End at: 2019-12-11 12:00:04
Local clock offset: 4.06 ms
Remote clock offset: -4.907 ms

# Below is generated by plot.py at 2019-12-11 13:21:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.06 Mbit/s
95th percentile per-packet one-way delay: 27.747 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 66.06 Mbit/s
95th percentile per-packet one-way delay: 27.747 ms
Loss rate: 0.21%
```

Run 3: Report of LEDBAT — Data Link

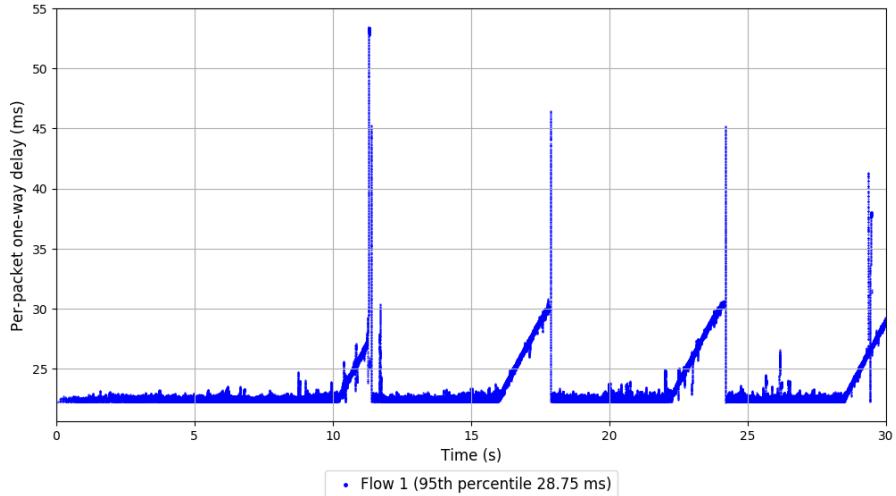
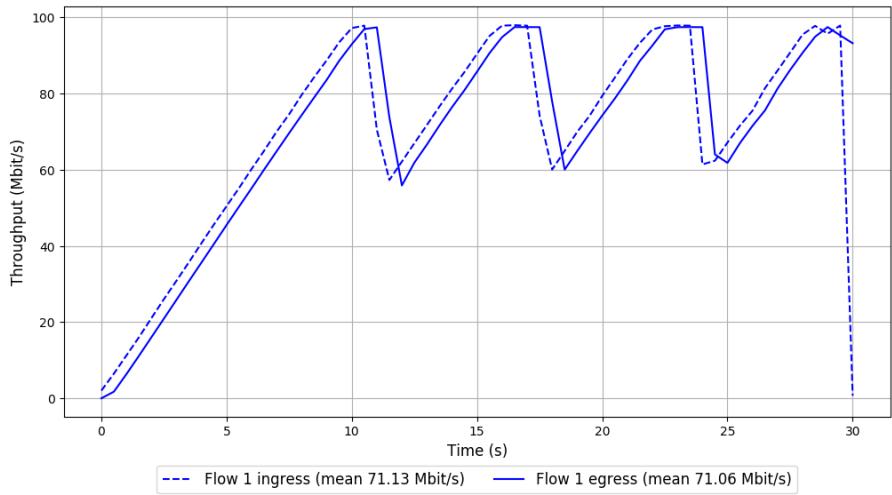


Run 4: Statistics of LEDBAT

```
Start at: 2019-12-11 12:28:17
End at: 2019-12-11 12:28:47
Local clock offset: 4.214 ms
Remote clock offset: -6.19 ms

# Below is generated by plot.py at 2019-12-11 13:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.06 Mbit/s
95th percentile per-packet one-way delay: 28.749 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 71.06 Mbit/s
95th percentile per-packet one-way delay: 28.749 ms
Loss rate: 0.25%
```

Run 4: Report of LEDBAT — Data Link

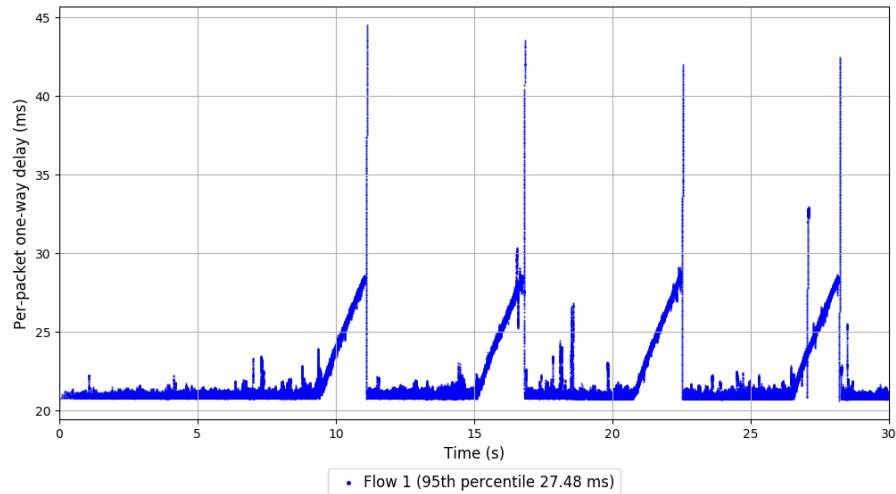
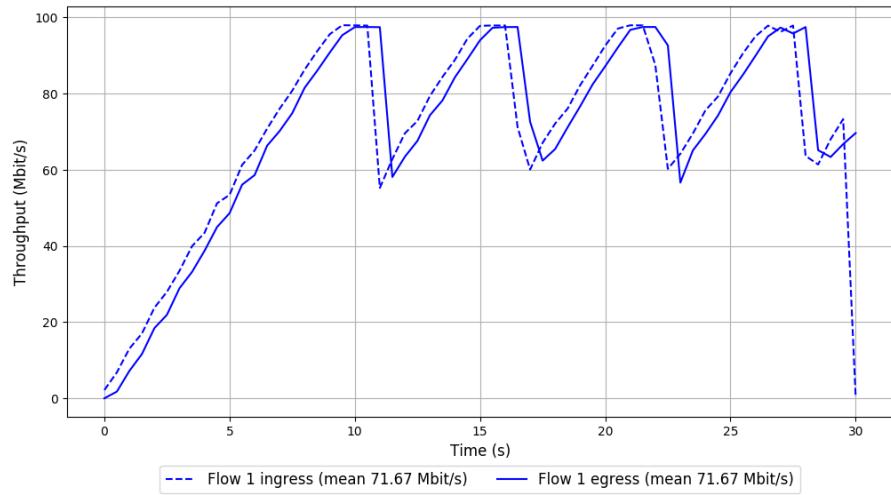


Run 5: Statistics of LEDBAT

```
Start at: 2019-12-11 12:57:55
End at: 2019-12-11 12:58:25
Local clock offset: 5.482 ms
Remote clock offset: -4.5 ms

# Below is generated by plot.py at 2019-12-11 13:21:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.67 Mbit/s
95th percentile per-packet one-way delay: 27.480 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 71.67 Mbit/s
95th percentile per-packet one-way delay: 27.480 ms
Loss rate: 0.17%
```

Run 5: Report of LEDBAT — Data Link

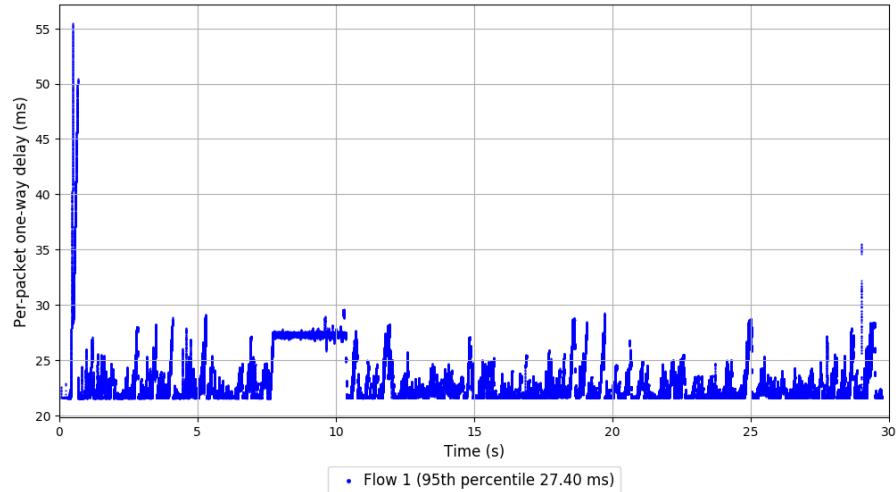
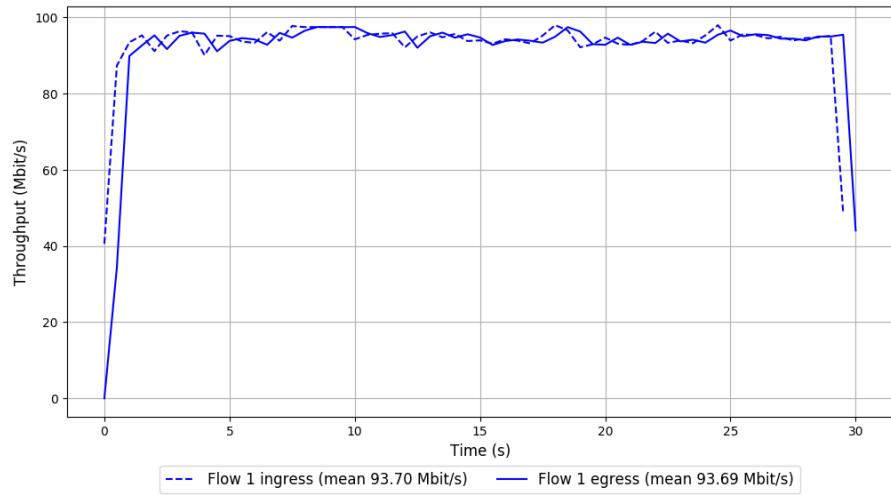


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 11:06:10
End at: 2019-12-11 11:06:40
Local clock offset: 6.325 ms
Remote clock offset: -7.198 ms

# Below is generated by plot.py at 2019-12-11 13:22:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 27.397 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 27.397 ms
Loss rate: 0.17%
```

Run 1: Report of Muses_DecisionTree — Data Link

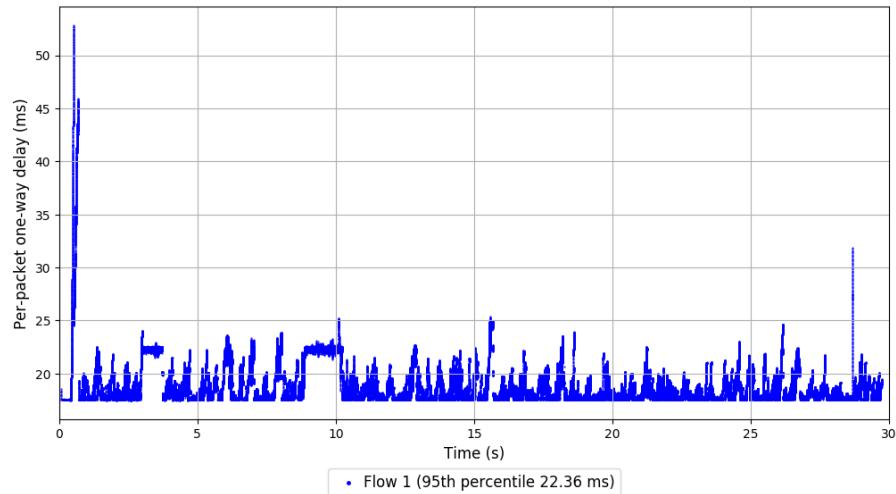
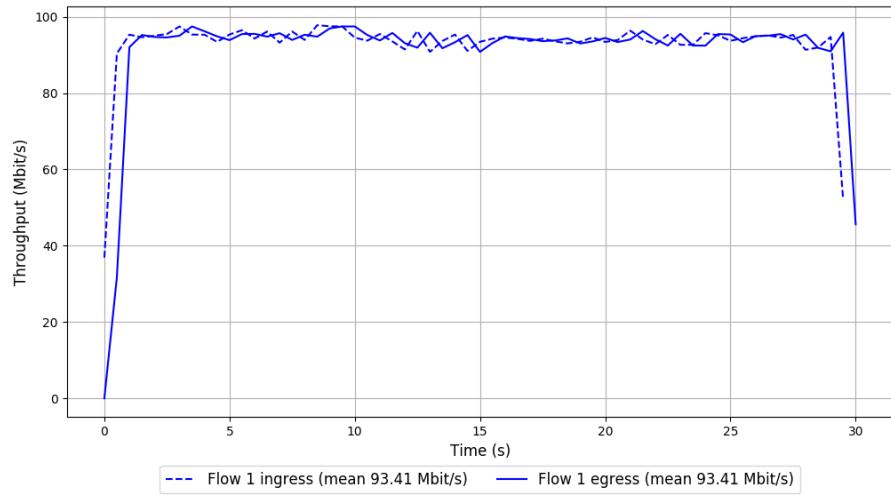


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 11:34:54
End at: 2019-12-11 11:35:25
Local clock offset: 7.201 ms
Remote clock offset: -1.351 ms

# Below is generated by plot.py at 2019-12-11 13:22:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 22.356 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 22.356 ms
Loss rate: 0.17%
```

Run 2: Report of Muses_DecisionTree — Data Link

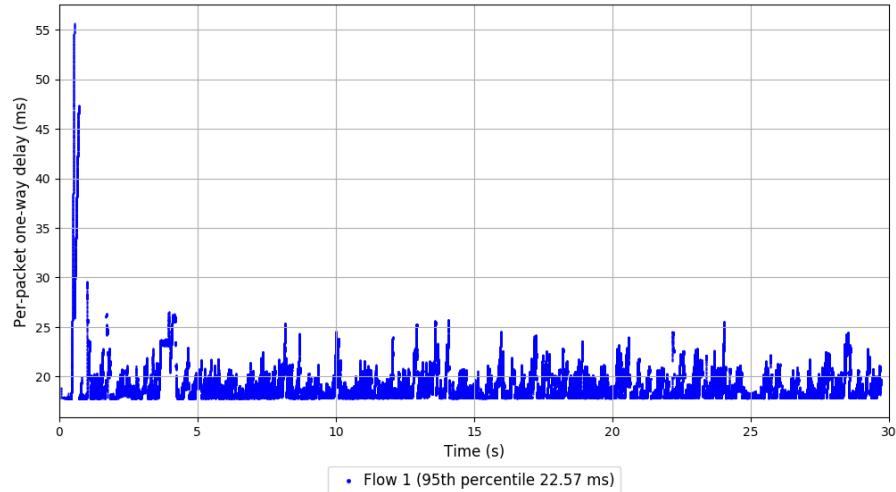
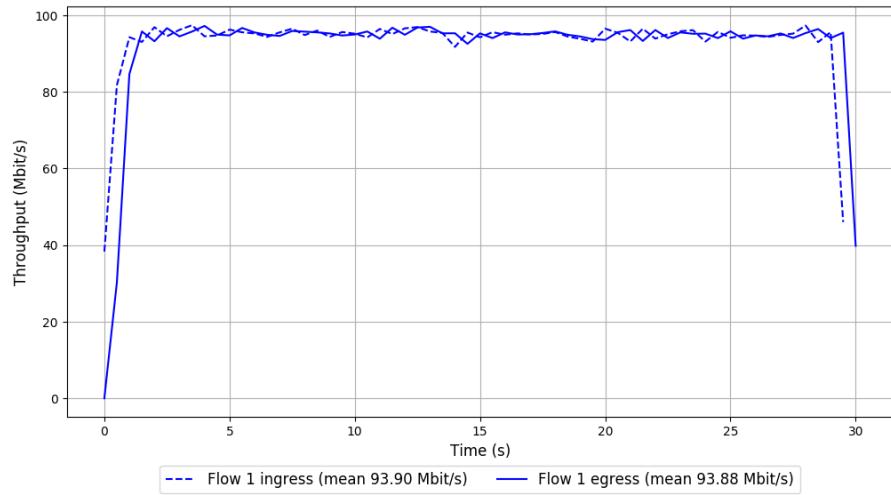


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 12:03:08
End at: 2019-12-11 12:03:38
Local clock offset: 3.419 ms
Remote clock offset: -2.9 ms

# Below is generated by plot.py at 2019-12-11 13:22:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 22.567 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 22.567 ms
Loss rate: 0.18%
```

Run 3: Report of Muses_DecisionTree — Data Link

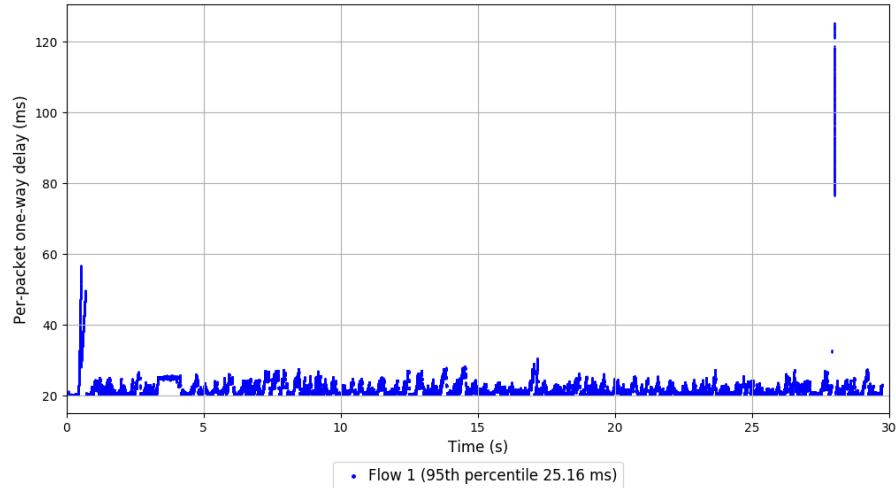
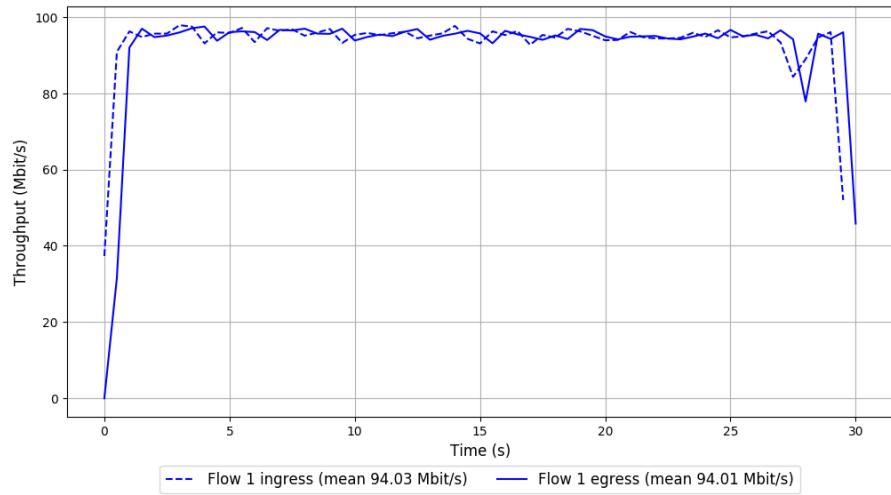


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 12:31:54
End at: 2019-12-11 12:32:24
Local clock offset: 3.314 ms
Remote clock offset: -5.134 ms

# Below is generated by plot.py at 2019-12-11 13:22:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 25.155 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 25.155 ms
Loss rate: 0.18%
```

Run 4: Report of Muses_DecisionTree — Data Link

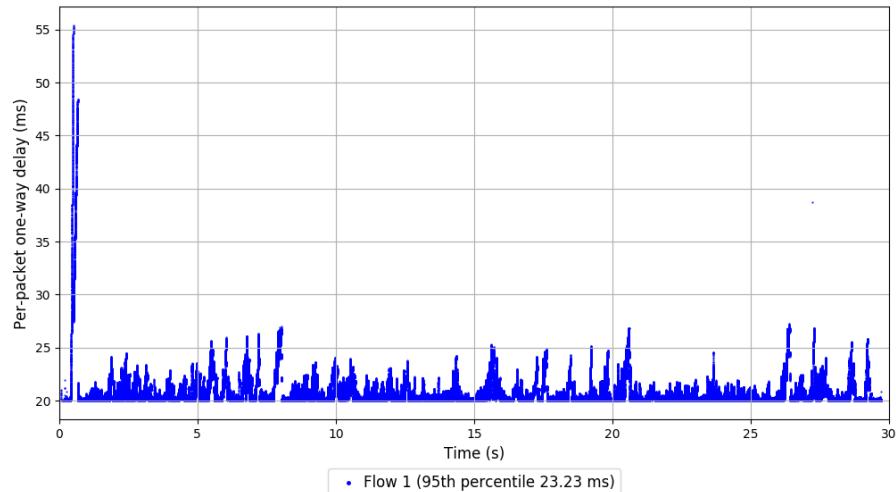
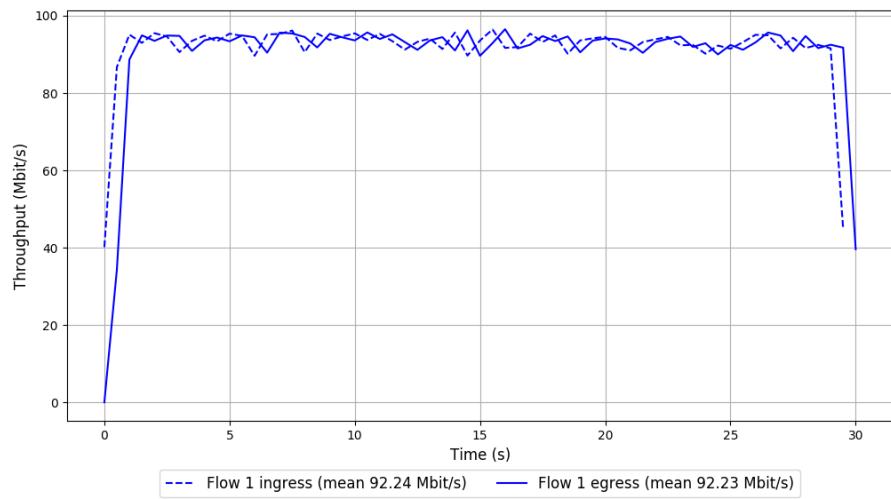


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 13:01:35
End at: 2019-12-11 13:02:05
Local clock offset: 5.615 ms
Remote clock offset: -3.495 ms

# Below is generated by plot.py at 2019-12-11 13:22:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.23 Mbit/s
95th percentile per-packet one-way delay: 23.235 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 92.23 Mbit/s
95th percentile per-packet one-way delay: 23.235 ms
Loss rate: 0.16%
```

Run 5: Report of Muses_DecisionTree — Data Link

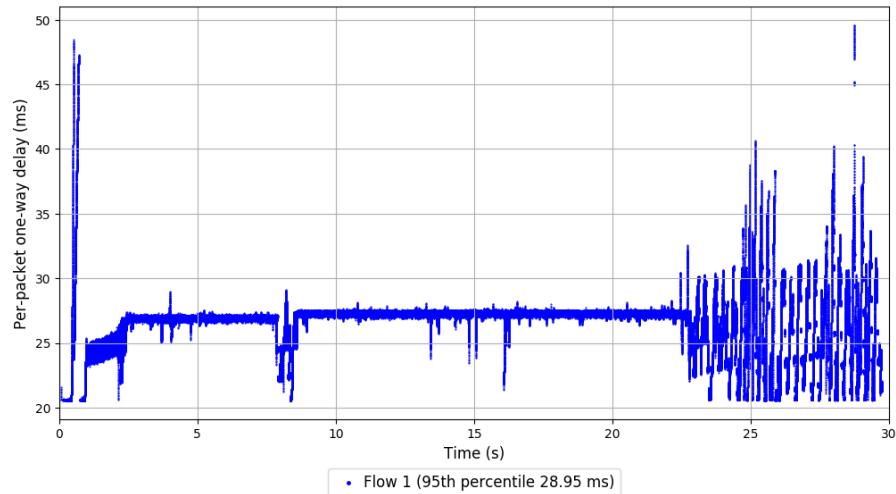
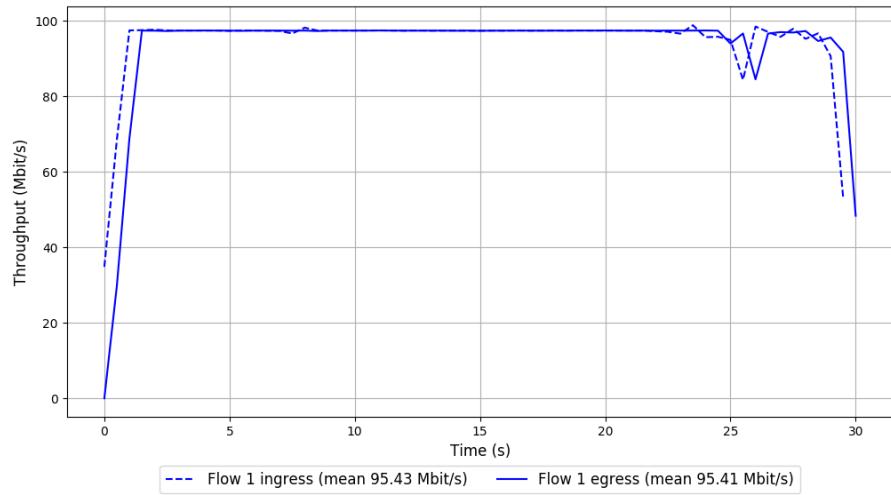


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 10:56:42
End at: 2019-12-11 10:57:12
Local clock offset: 6.566 ms
Remote clock offset: -6.329 ms

# Below is generated by plot.py at 2019-12-11 13:22:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.41 Mbit/s
95th percentile per-packet one-way delay: 28.955 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 95.41 Mbit/s
95th percentile per-packet one-way delay: 28.955 ms
Loss rate: 0.18%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

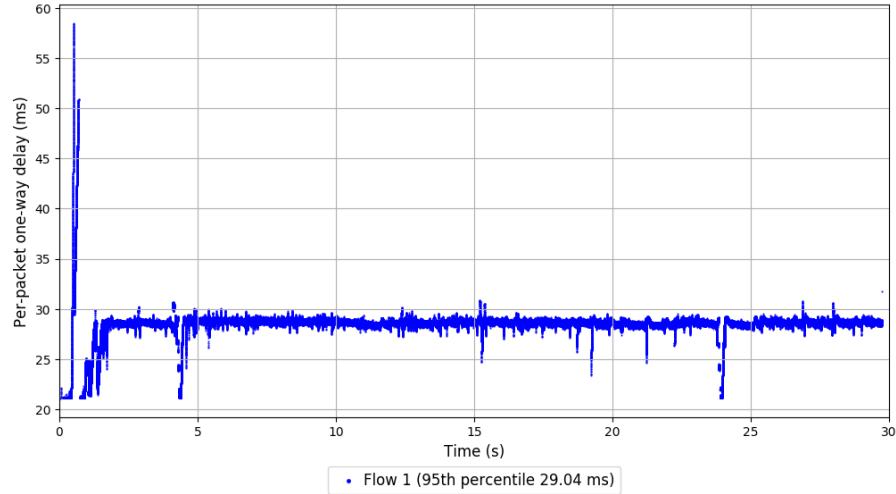
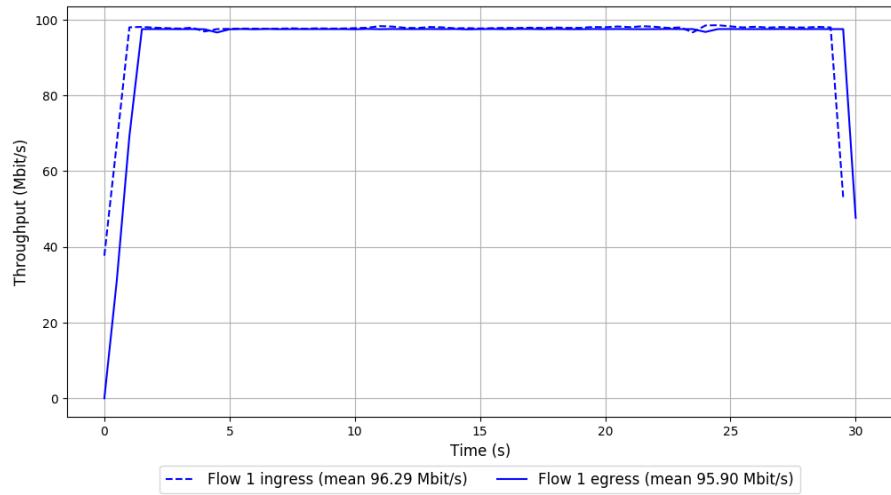


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 11:25:22
End at: 2019-12-11 11:25:52
Local clock offset: 6.914 ms
Remote clock offset: -5.556 ms

# Below is generated by plot.py at 2019-12-11 13:23:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 29.043 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 29.043 ms
Loss rate: 0.56%
```

Run 2: Report of Muses_DecisionTreeH0 — Data Link

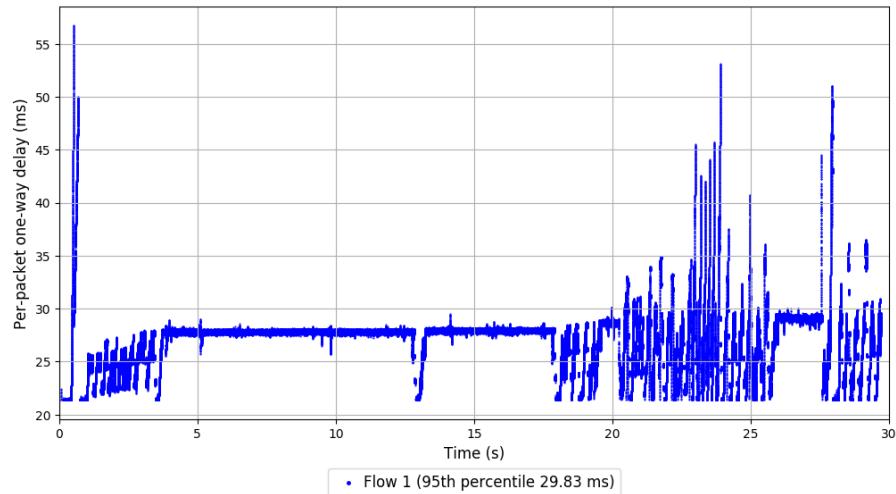
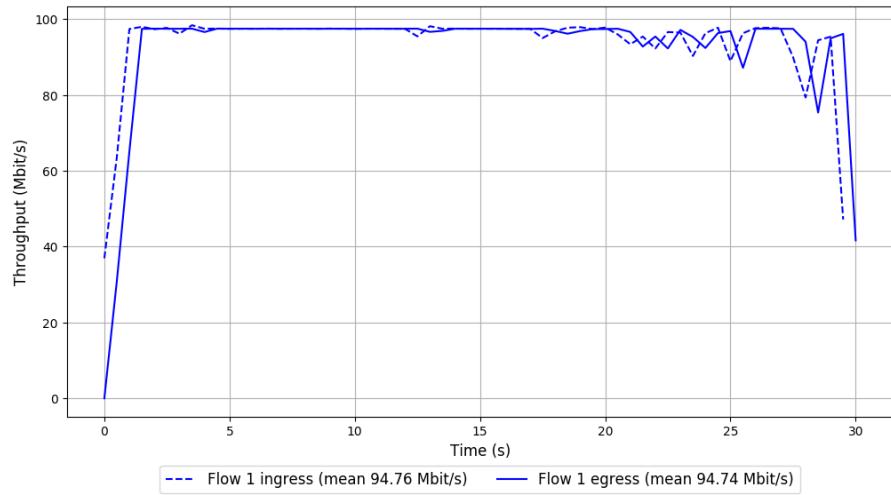


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 11:53:43
End at: 2019-12-11 11:54:13
Local clock offset: 4.674 ms
Remote clock offset: -5.33 ms

# Below is generated by plot.py at 2019-12-11 13:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 29.830 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 29.830 ms
Loss rate: 0.19%
```

Run 3: Report of Muses_DecisionTreeH0 — Data Link

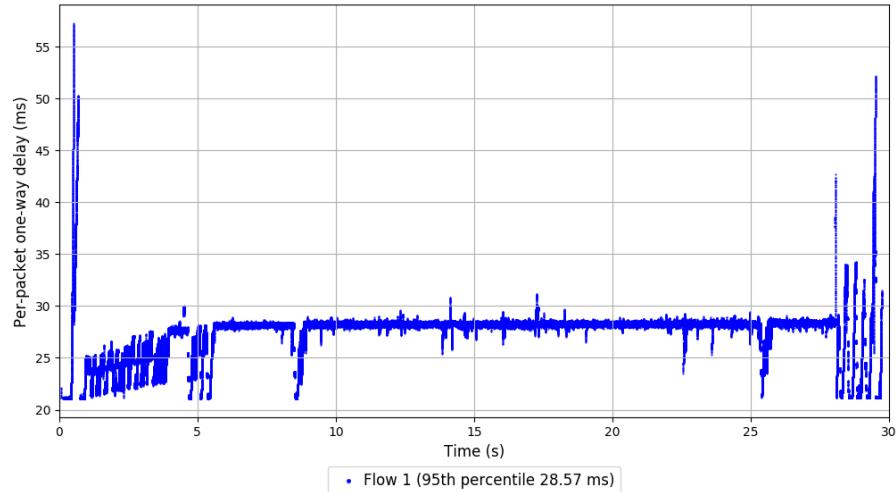
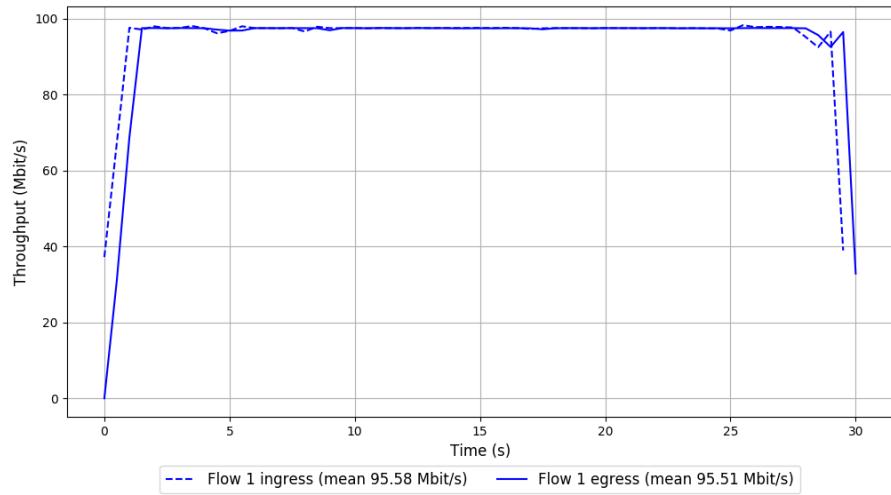


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 12:22:14
End at: 2019-12-11 12:22:44
Local clock offset: 4.405 ms
Remote clock offset: -5.123 ms

# Below is generated by plot.py at 2019-12-11 13:23:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 28.567 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 28.567 ms
Loss rate: 0.23%
```

Run 4: Report of Muses_DecisionTreeH0 — Data Link

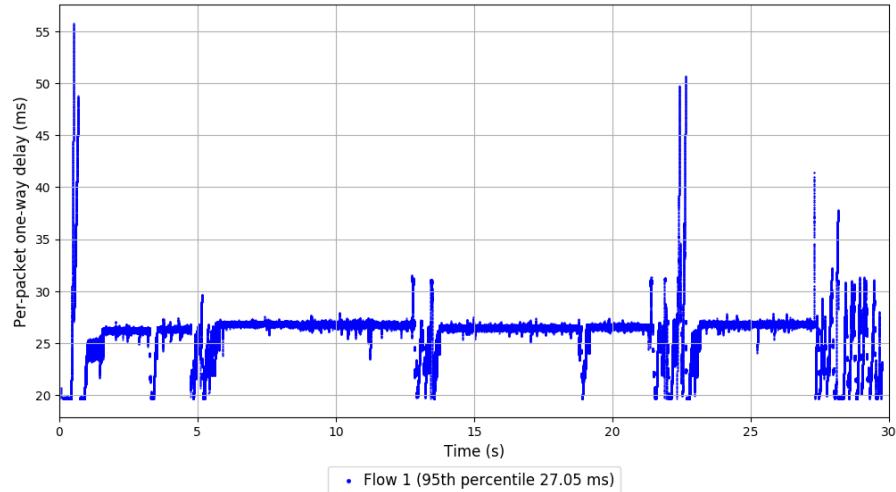
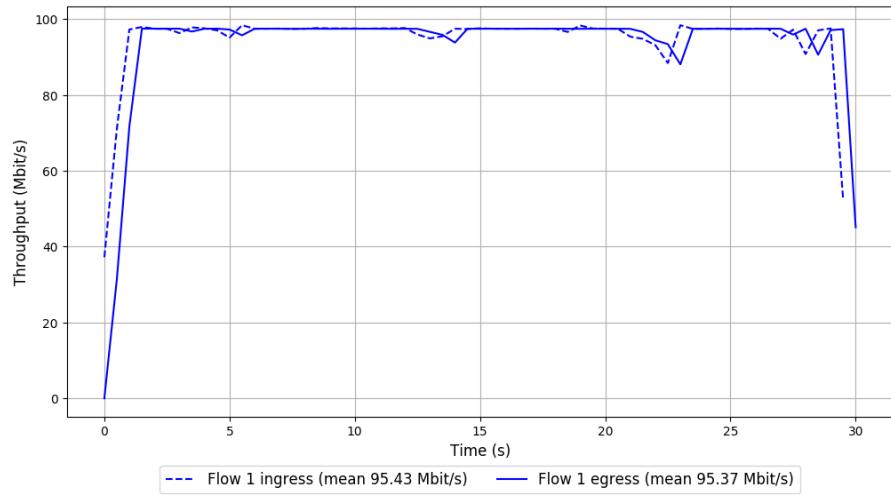


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 12:51:44
End at: 2019-12-11 12:52:14
Local clock offset: 4.567 ms
Remote clock offset: -4.081 ms

# Below is generated by plot.py at 2019-12-11 13:23:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: 27.053 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: 27.053 ms
Loss rate: 0.23%
```

Run 5: Report of Muses_DecisionTreeH0 — Data Link

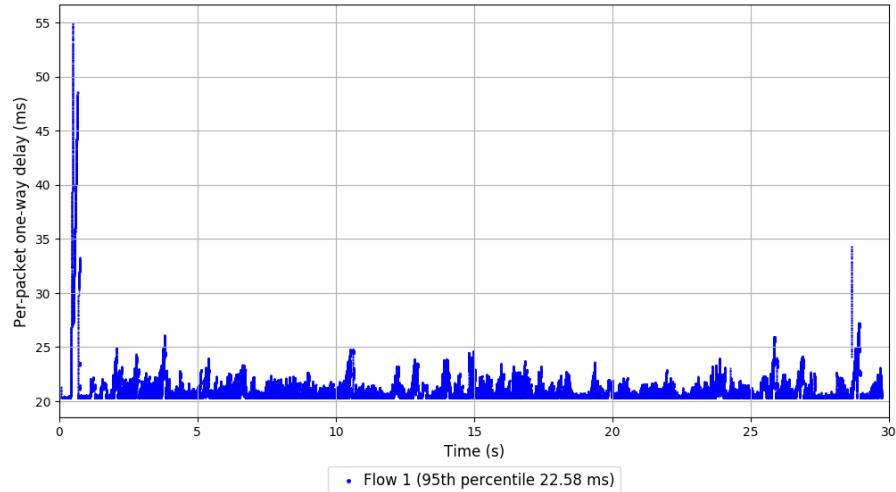
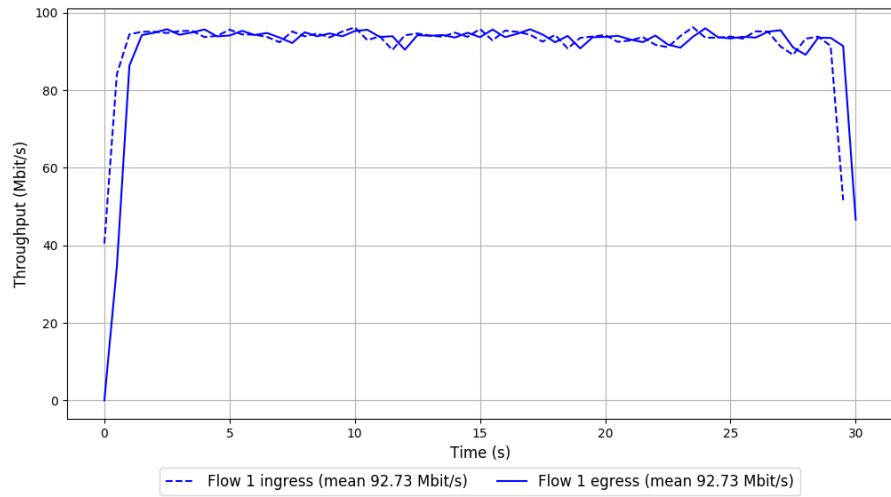


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 11:07:22
End at: 2019-12-11 11:07:52
Local clock offset: 6.388 ms
Remote clock offset: -5.74 ms

# Below is generated by plot.py at 2019-12-11 13:23:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.73 Mbit/s
95th percentile per-packet one-way delay: 22.577 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 92.73 Mbit/s
95th percentile per-packet one-way delay: 22.577 ms
Loss rate: 0.16%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

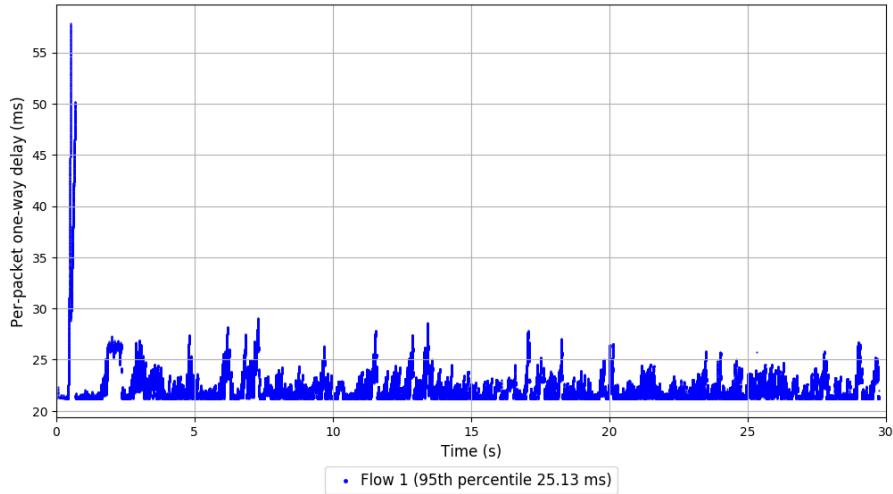
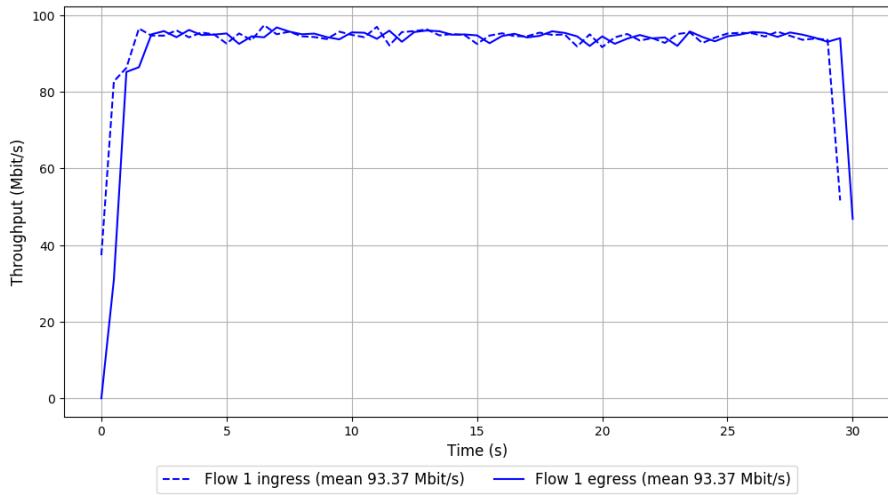


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 11:36:04
End at: 2019-12-11 11:36:34
Local clock offset: 7.273 ms
Remote clock offset: -4.972 ms

# Below is generated by plot.py at 2019-12-11 13:23:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.37 Mbit/s
95th percentile per-packet one-way delay: 25.129 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 93.37 Mbit/s
95th percentile per-packet one-way delay: 25.129 ms
Loss rate: 0.16%
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link

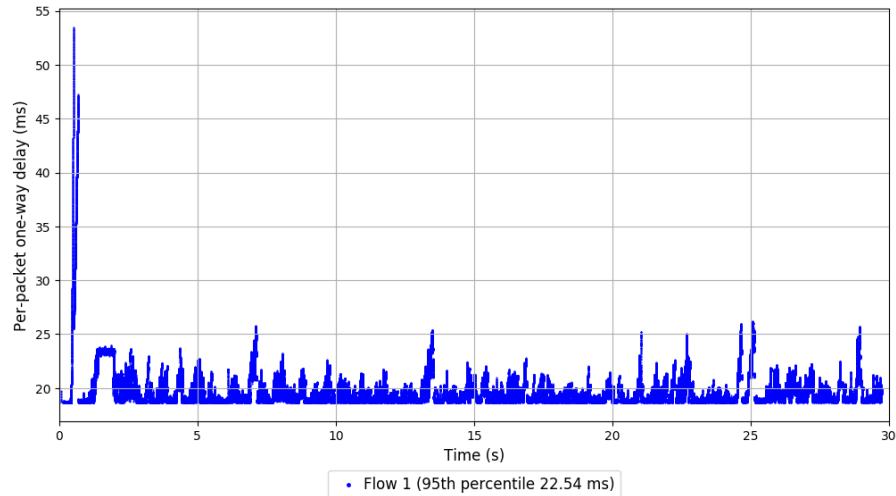
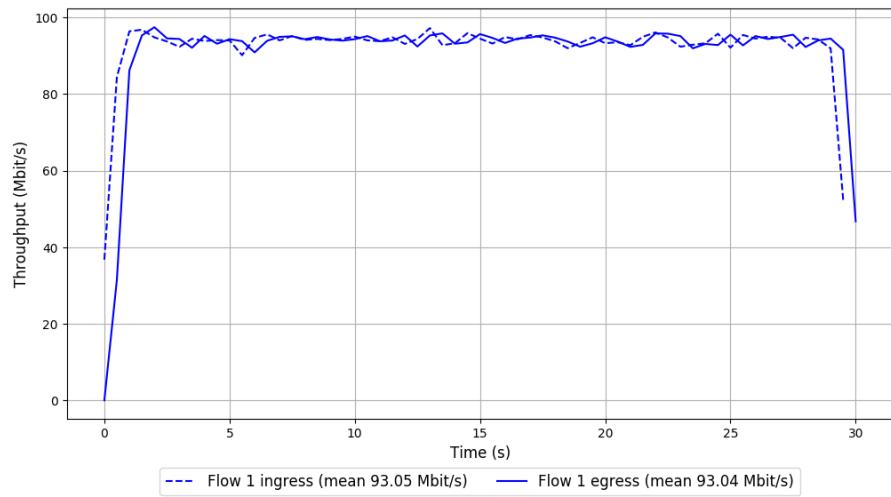


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 12:04:20
End at: 2019-12-11 12:04:50
Local clock offset: 3.93 ms
Remote clock offset: -3.054 ms

# Below is generated by plot.py at 2019-12-11 13:24:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 22.538 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 22.538 ms
Loss rate: 0.17%
```

Run 3: Report of Muses_DecisionTreeR0 — Data Link

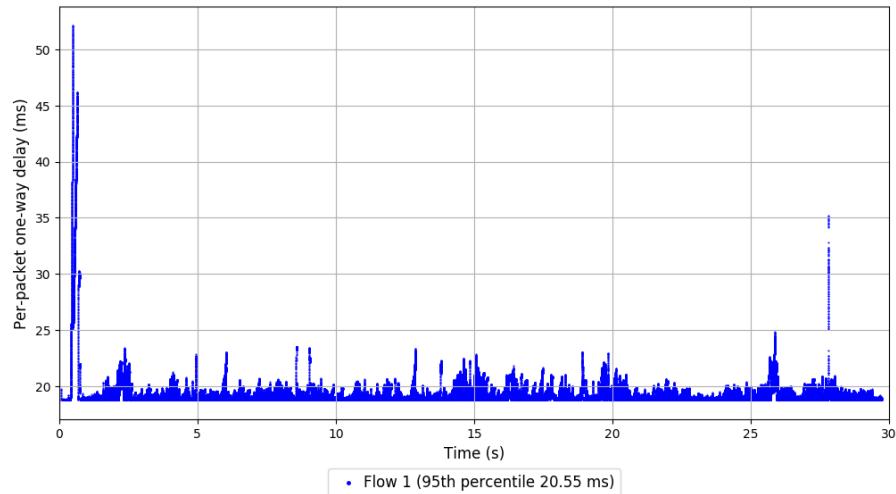
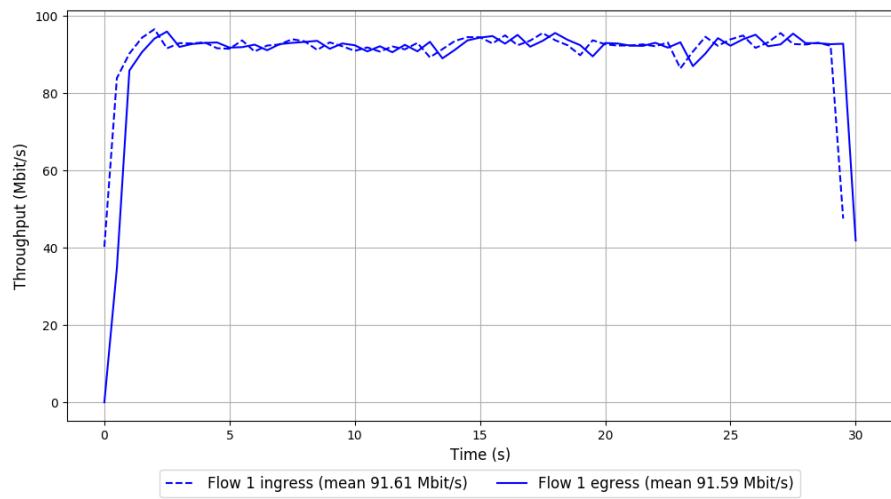


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 12:33:06
End at: 2019-12-11 12:33:36
Local clock offset: 3.88 ms
Remote clock offset: -2.817 ms

# Below is generated by plot.py at 2019-12-11 13:24:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.59 Mbit/s
95th percentile per-packet one-way delay: 20.546 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 91.59 Mbit/s
95th percentile per-packet one-way delay: 20.546 ms
Loss rate: 0.18%
```

Run 4: Report of Muses_DecisionTreeR0 — Data Link

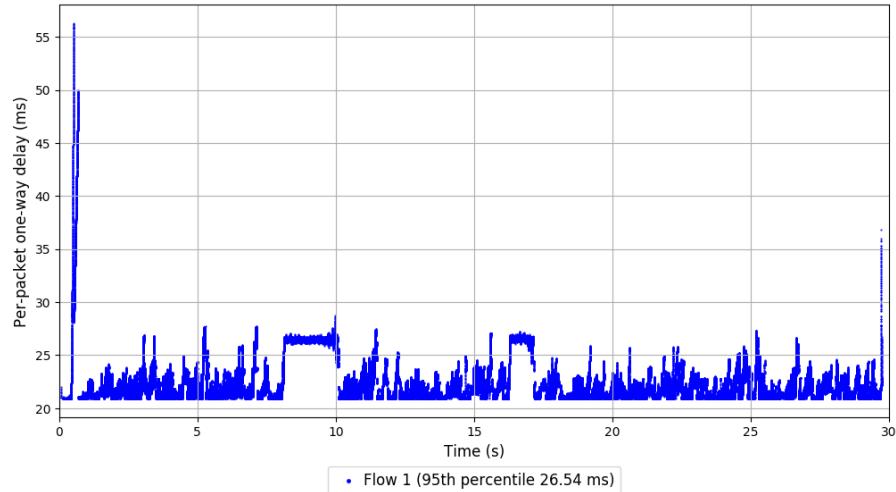
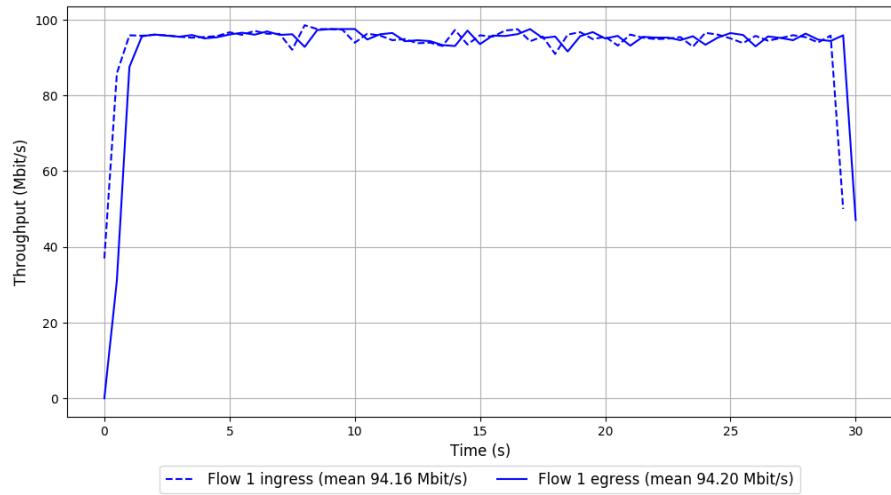


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 13:02:48
End at: 2019-12-11 13:03:18
Local clock offset: 5.568 ms
Remote clock offset: -4.493 ms

# Below is generated by plot.py at 2019-12-11 13:24:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.20 Mbit/s
95th percentile per-packet one-way delay: 26.541 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 94.20 Mbit/s
95th percentile per-packet one-way delay: 26.541 ms
Loss rate: 0.13%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link

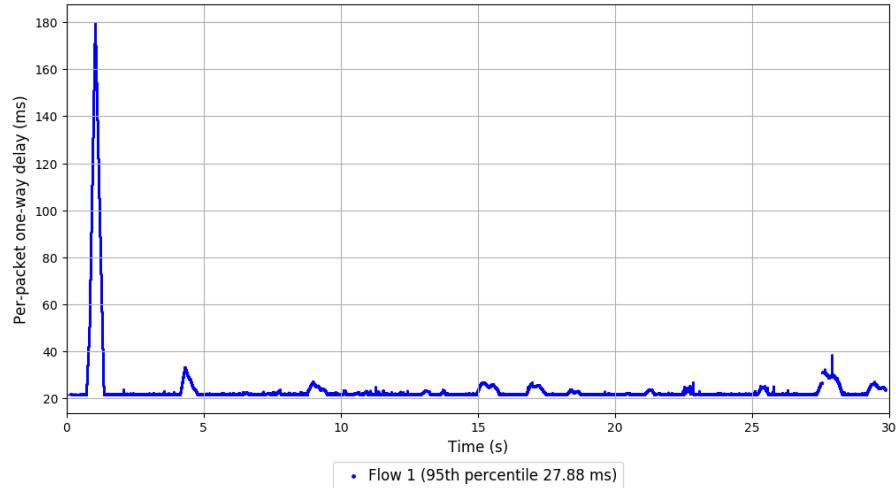
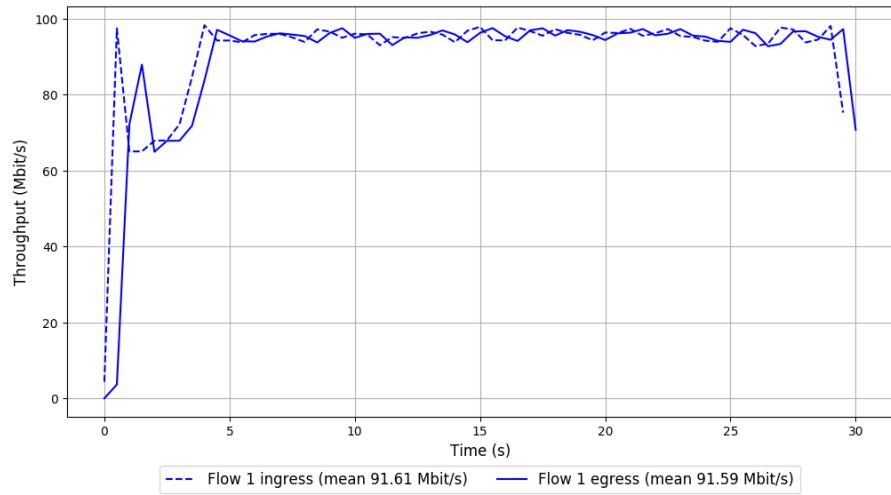


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-12-11 11:13:37
End at: 2019-12-11 11:14:07
Local clock offset: 7.053 ms
Remote clock offset: -6.276 ms

# Below is generated by plot.py at 2019-12-11 13:24:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.59 Mbit/s
95th percentile per-packet one-way delay: 27.876 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 91.59 Mbit/s
95th percentile per-packet one-way delay: 27.876 ms
Loss rate: 0.18%
```

Run 1: Report of PCC-Allegro — Data Link

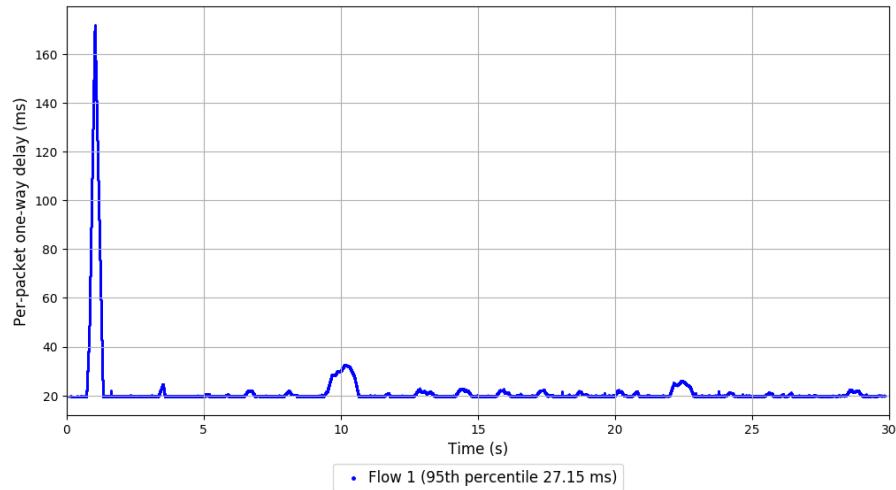
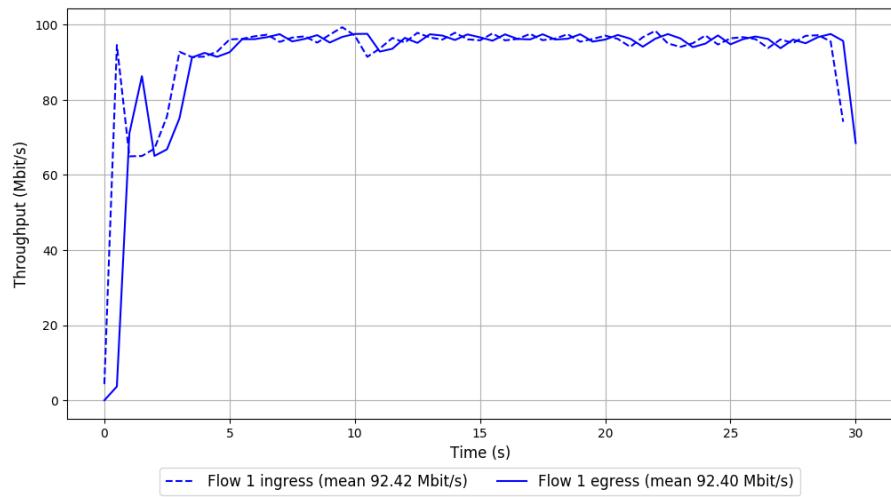


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-12-11 11:42:07
End at: 2019-12-11 11:42:37
Local clock offset: 5.674 ms
Remote clock offset: -4.092 ms

# Below is generated by plot.py at 2019-12-11 13:24:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.40 Mbit/s
95th percentile per-packet one-way delay: 27.152 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 92.40 Mbit/s
95th percentile per-packet one-way delay: 27.152 ms
Loss rate: 0.19%
```

Run 2: Report of PCC-Allegro — Data Link

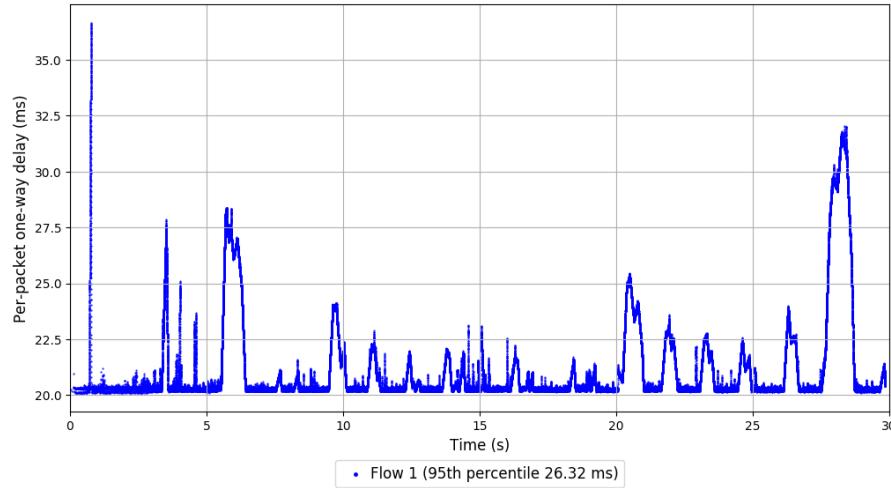
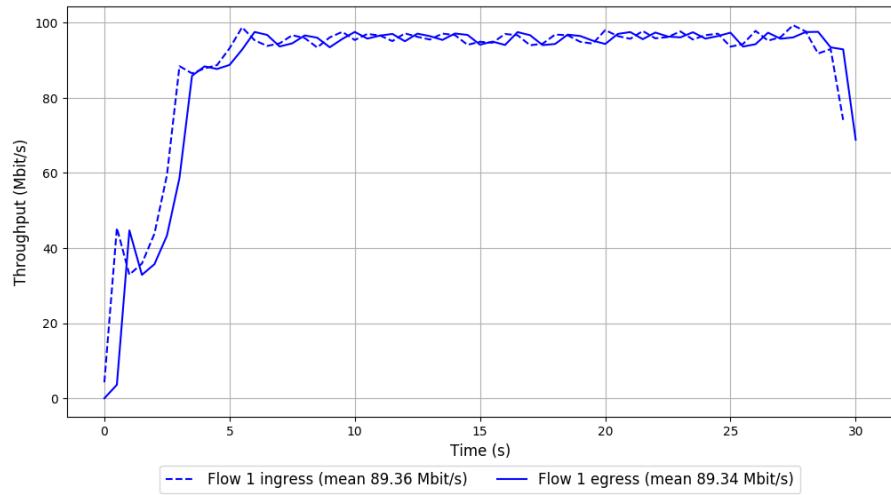


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-12-11 12:10:25
End at: 2019-12-11 12:10:55
Local clock offset: 3.727 ms
Remote clock offset: -5.123 ms

# Below is generated by plot.py at 2019-12-11 13:24:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 26.324 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 26.324 ms
Loss rate: 0.18%
```

Run 3: Report of PCC-Allegro — Data Link

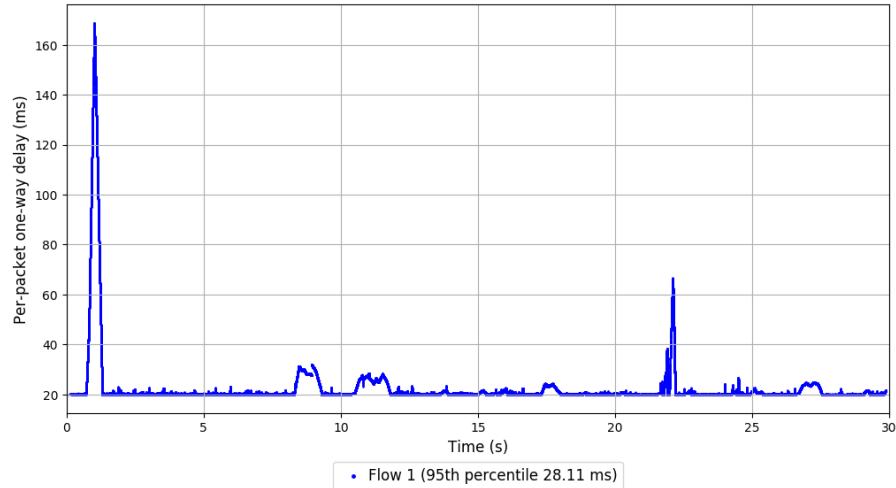
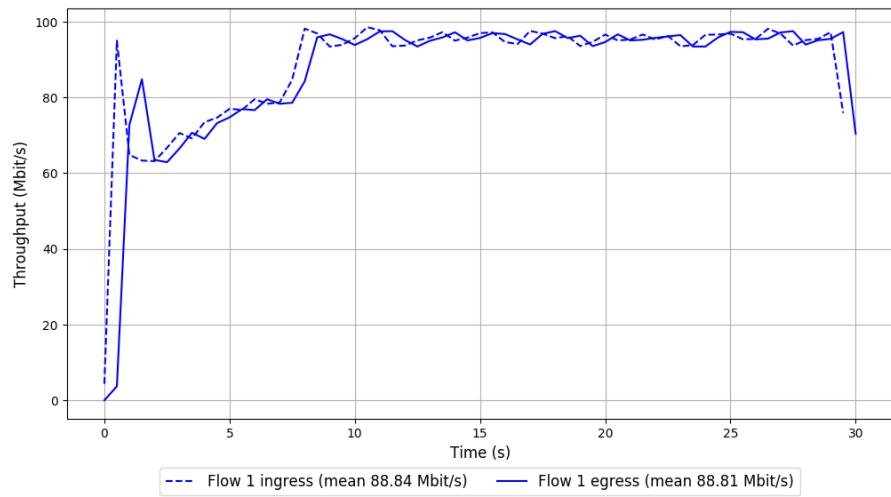


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-12-11 12:39:27
End at: 2019-12-11 12:39:57
Local clock offset: 3.722 ms
Remote clock offset: -4.348 ms

# Below is generated by plot.py at 2019-12-11 13:24:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.81 Mbit/s
95th percentile per-packet one-way delay: 28.115 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 88.81 Mbit/s
95th percentile per-packet one-way delay: 28.115 ms
Loss rate: 0.19%
```

Run 4: Report of PCC-Allegro — Data Link

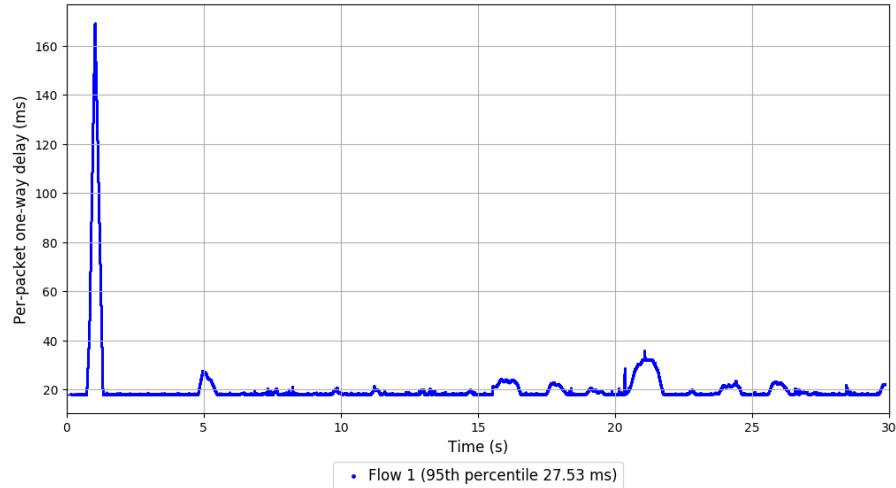
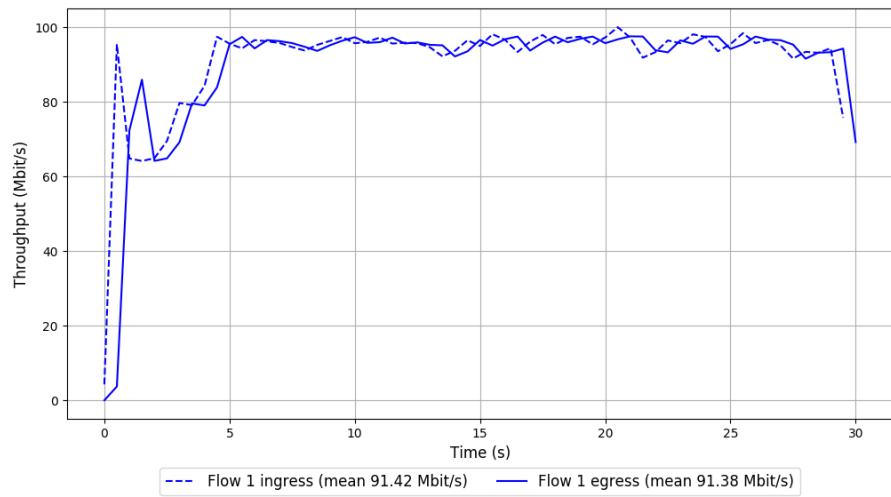


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-12-11 13:09:11
End at: 2019-12-11 13:09:41
Local clock offset: 5.35 ms
Remote clock offset: -1.911 ms

# Below is generated by plot.py at 2019-12-11 13:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.38 Mbit/s
95th percentile per-packet one-way delay: 27.529 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 91.38 Mbit/s
95th percentile per-packet one-way delay: 27.529 ms
Loss rate: 0.20%
```

Run 5: Report of PCC-Allegro — Data Link

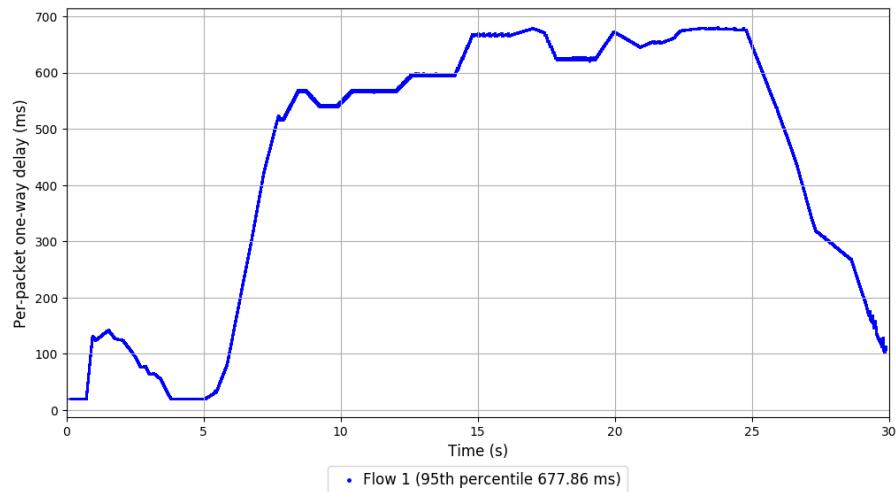
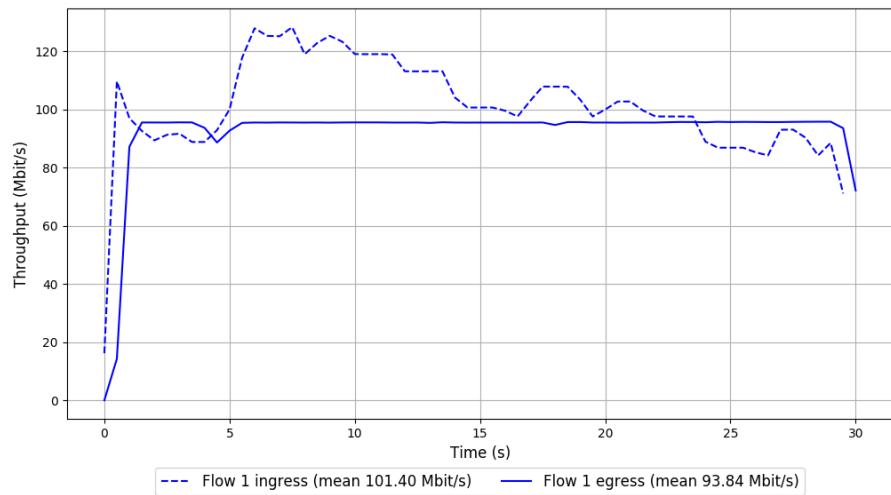


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-12-11 11:08:34
End at: 2019-12-11 11:09:04
Local clock offset: 6.358 ms
Remote clock offset: -5.627 ms

# Below is generated by plot.py at 2019-12-11 13:26:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 677.862 ms
Loss rate: 7.60%
-- Flow 1:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 677.862 ms
Loss rate: 7.60%
```

Run 1: Report of PCC-Expr — Data Link

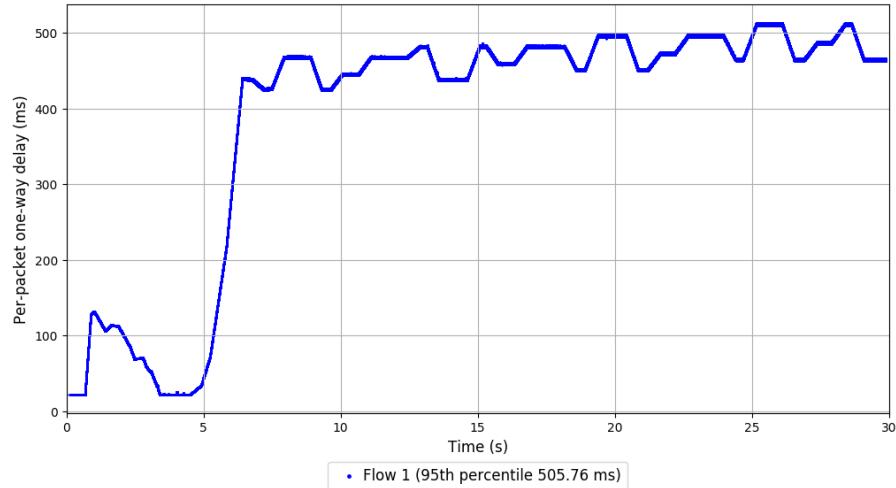
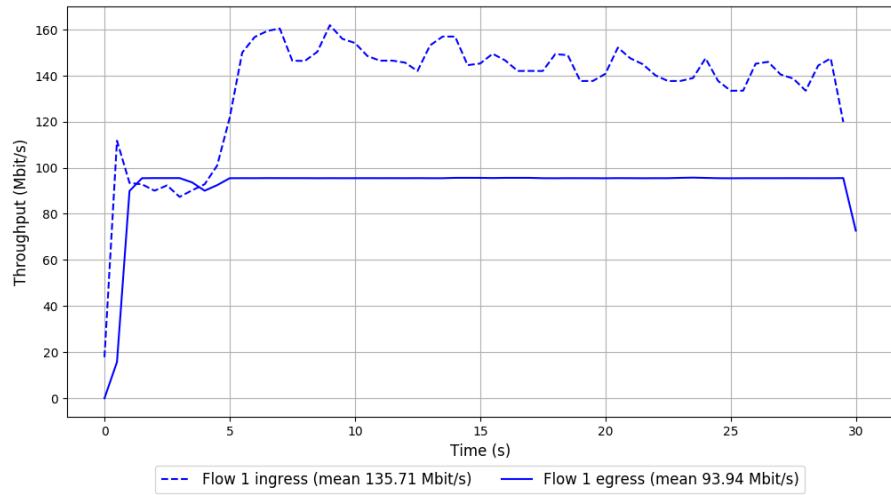


Run 2: Statistics of PCC-Expr

```
Start at: 2019-12-11 11:37:15
End at: 2019-12-11 11:37:45
Local clock offset: 7.964 ms
Remote clock offset: -5.291 ms

# Below is generated by plot.py at 2019-12-11 13:26:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 505.760 ms
Loss rate: 30.89%
-- Flow 1:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 505.760 ms
Loss rate: 30.89%
```

Run 2: Report of PCC-Expr — Data Link

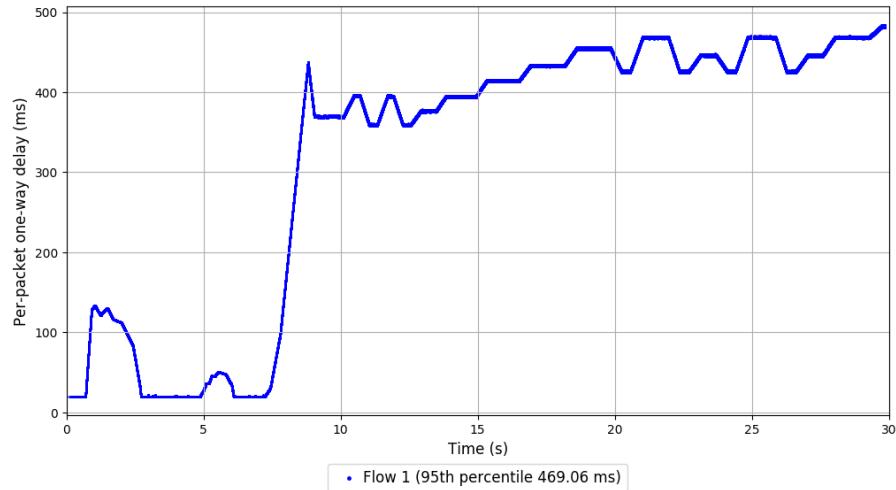
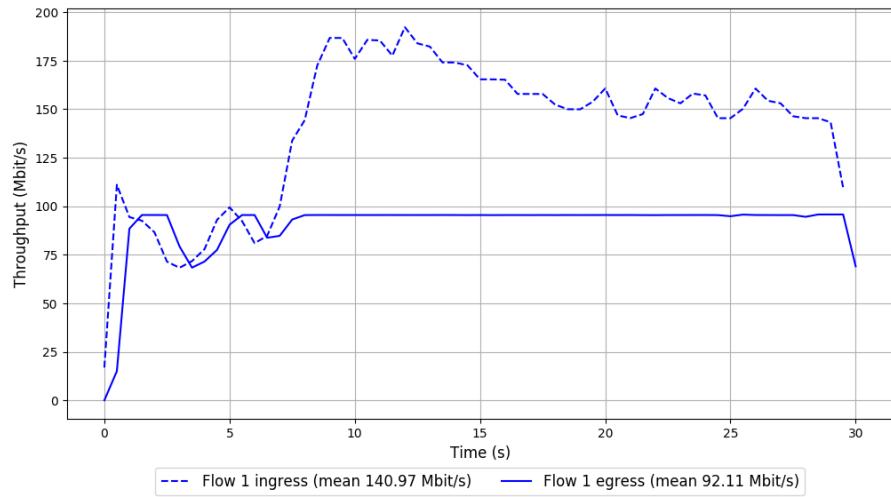


Run 3: Statistics of PCC-Expr

```
Start at: 2019-12-11 12:05:34
End at: 2019-12-11 12:06:04
Local clock offset: 3.512 ms
Remote clock offset: -4.366 ms

# Below is generated by plot.py at 2019-12-11 13:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.11 Mbit/s
95th percentile per-packet one-way delay: 469.058 ms
Loss rate: 34.76%
-- Flow 1:
Average throughput: 92.11 Mbit/s
95th percentile per-packet one-way delay: 469.058 ms
Loss rate: 34.76%
```

Run 3: Report of PCC-Expr — Data Link

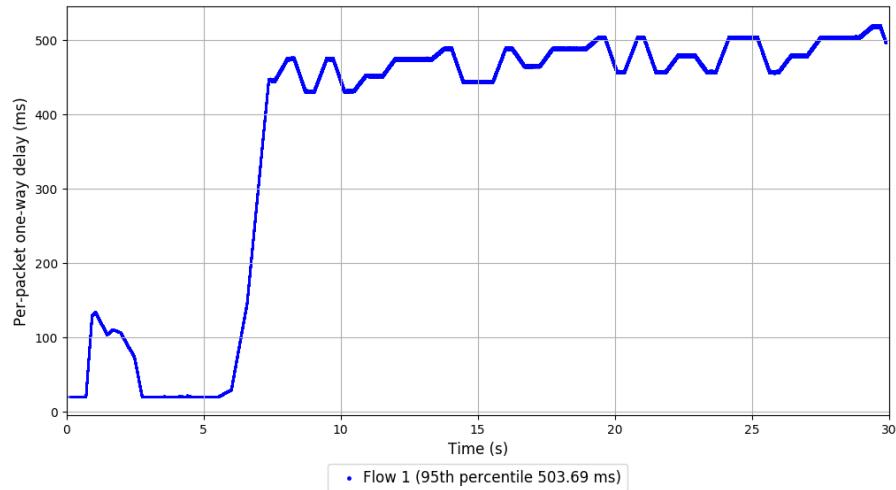
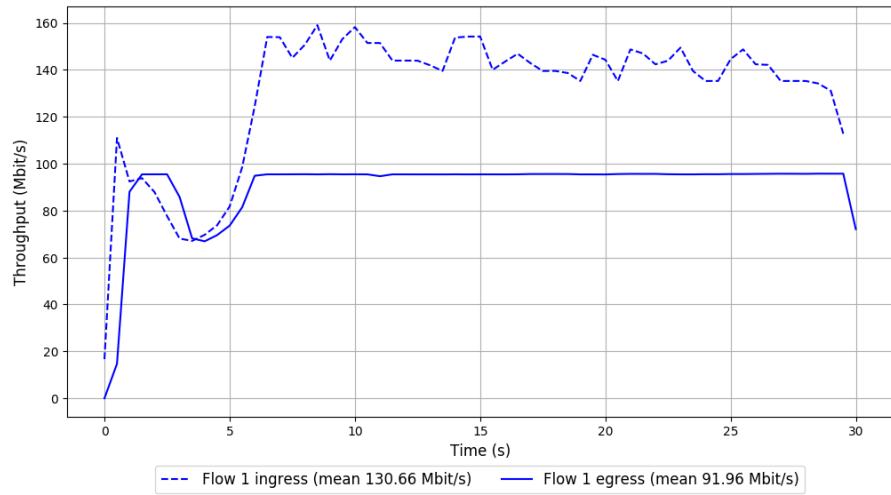


Run 4: Statistics of PCC-Expr

```
Start at: 2019-12-11 12:34:20
End at: 2019-12-11 12:34:50
Local clock offset: 3.285 ms
Remote clock offset: -5.234 ms

# Below is generated by plot.py at 2019-12-11 13:26:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.96 Mbit/s
95th percentile per-packet one-way delay: 503.692 ms
Loss rate: 29.73%
-- Flow 1:
Average throughput: 91.96 Mbit/s
95th percentile per-packet one-way delay: 503.692 ms
Loss rate: 29.73%
```

Run 4: Report of PCC-Expr — Data Link

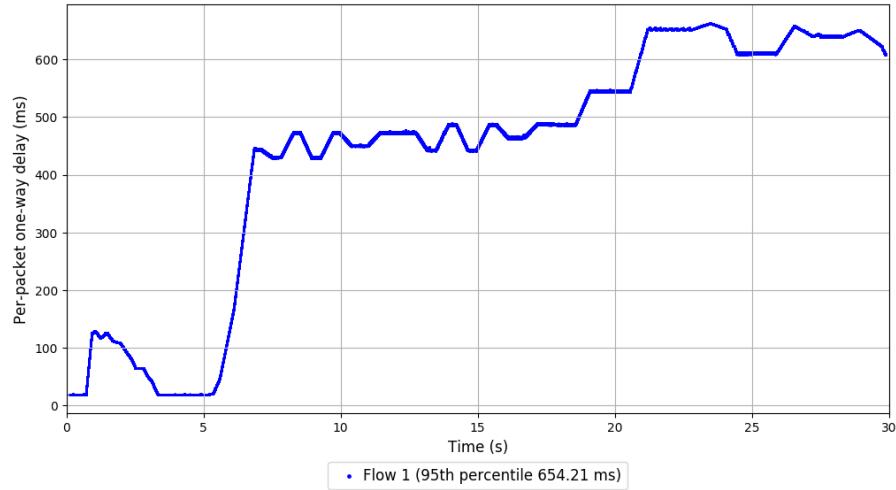
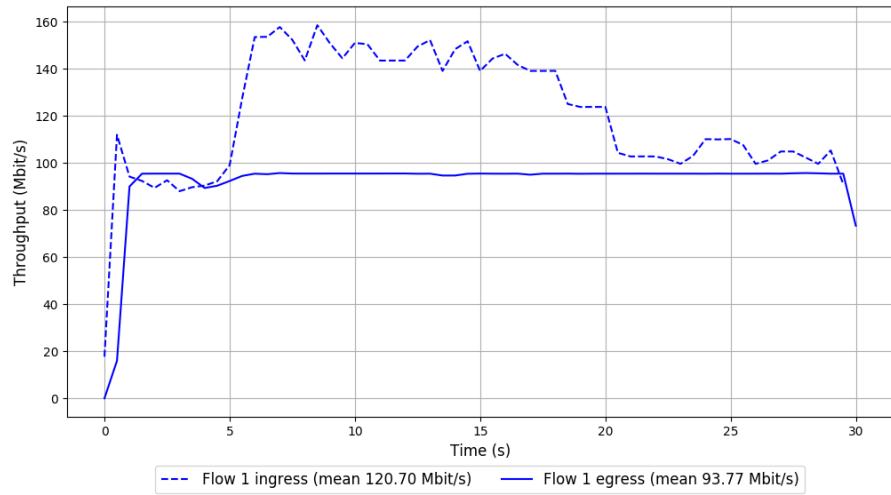


Run 5: Statistics of PCC-Expr

```
Start at: 2019-12-11 13:04:04
End at: 2019-12-11 13:04:34
Local clock offset: 5.627 ms
Remote clock offset: -2.209 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.77 Mbit/s
95th percentile per-packet one-way delay: 654.211 ms
Loss rate: 22.43%
-- Flow 1:
Average throughput: 93.77 Mbit/s
95th percentile per-packet one-way delay: 654.211 ms
Loss rate: 22.43%
```

Run 5: Report of PCC-Expr — Data Link

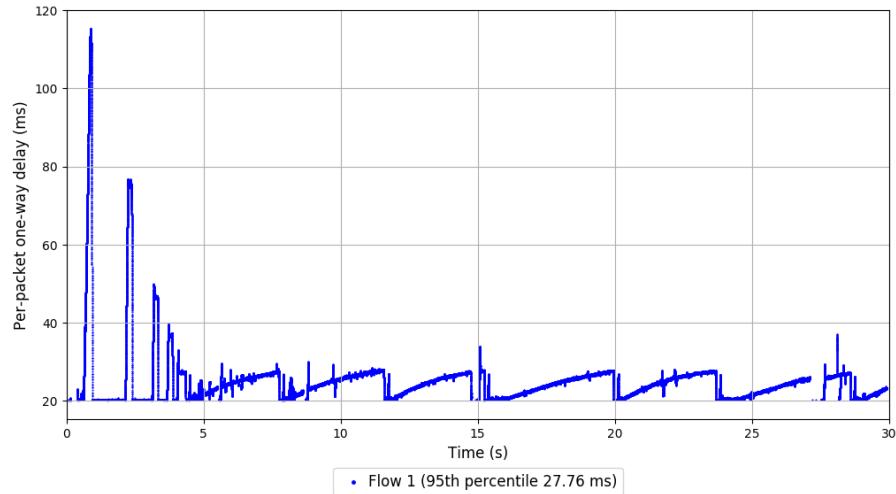
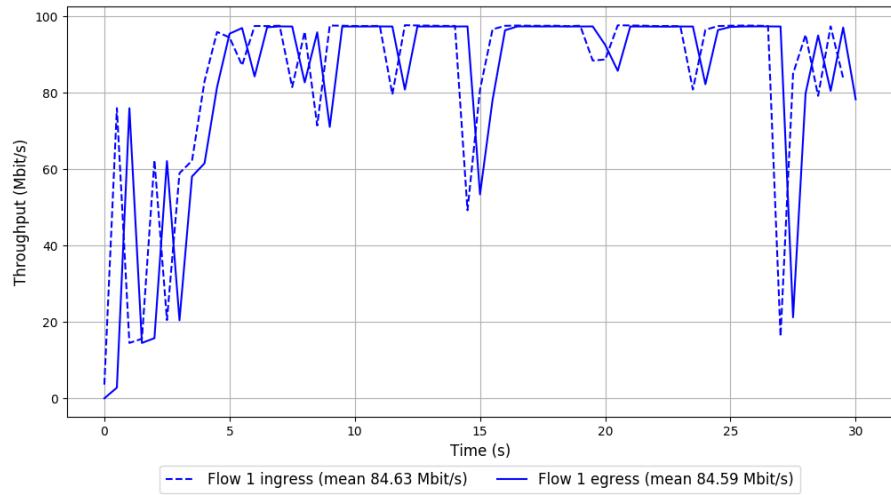


Run 1: Statistics of QUIC Cubic

```
Start at: 2019-12-11 10:49:27
End at: 2019-12-11 10:49:57
Local clock offset: 5.43 ms
Remote clock offset: -7.234 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.59 Mbit/s
95th percentile per-packet one-way delay: 27.764 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 84.59 Mbit/s
95th percentile per-packet one-way delay: 27.764 ms
Loss rate: 0.20%
```

Run 1: Report of QUIC Cubic — Data Link

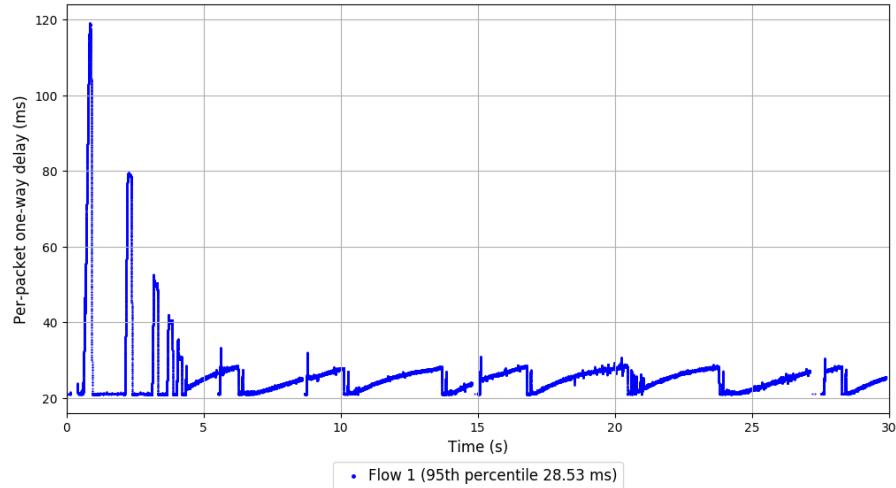
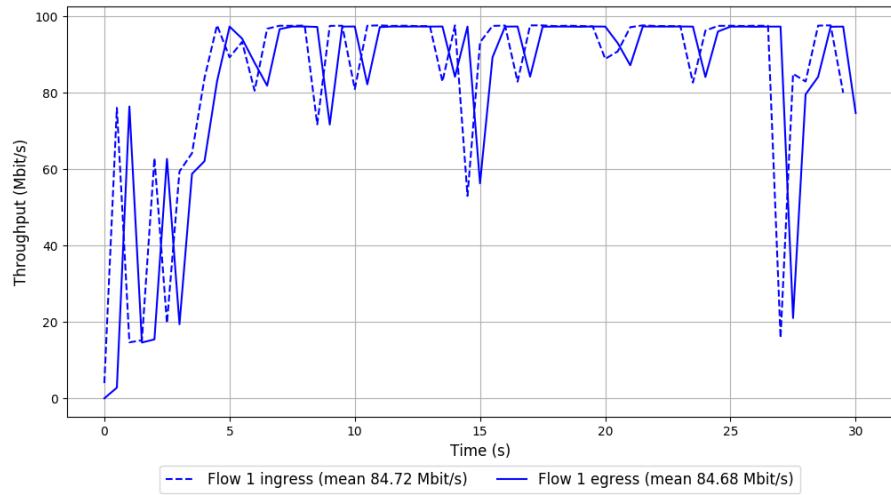


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-12-11 11:18:21
End at: 2019-12-11 11:18:51
Local clock offset: 7.334 ms
Remote clock offset: -5.182 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.68 Mbit/s
95th percentile per-packet one-way delay: 28.533 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 84.68 Mbit/s
95th percentile per-packet one-way delay: 28.533 ms
Loss rate: 0.21%
```

Run 2: Report of QUIC Cubic — Data Link

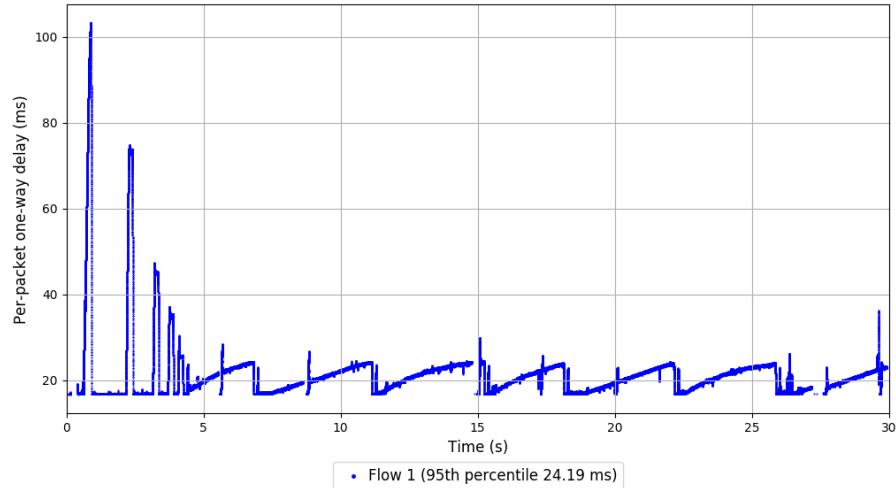
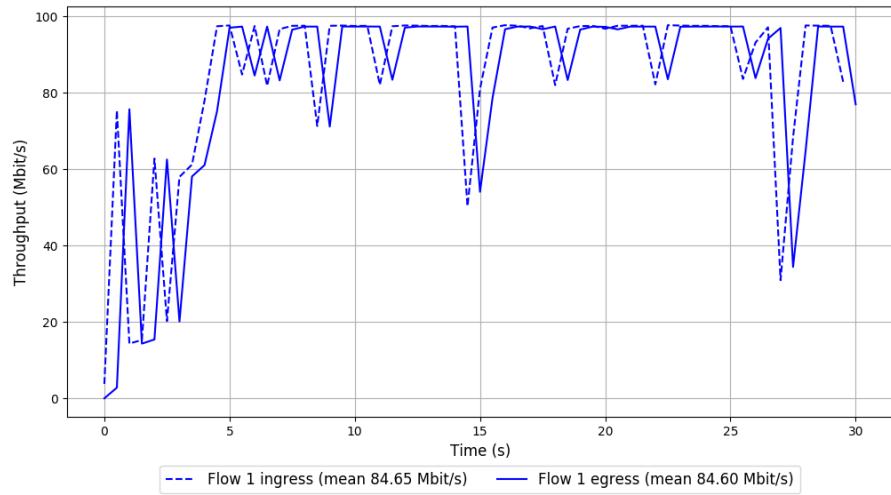


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-12-11 11:46:41
End at: 2019-12-11 11:47:11
Local clock offset: 5.172 ms
Remote clock offset: -1.751 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.60 Mbit/s
95th percentile per-packet one-way delay: 24.193 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 84.60 Mbit/s
95th percentile per-packet one-way delay: 24.193 ms
Loss rate: 0.21%
```

Run 3: Report of QUIC Cubic — Data Link

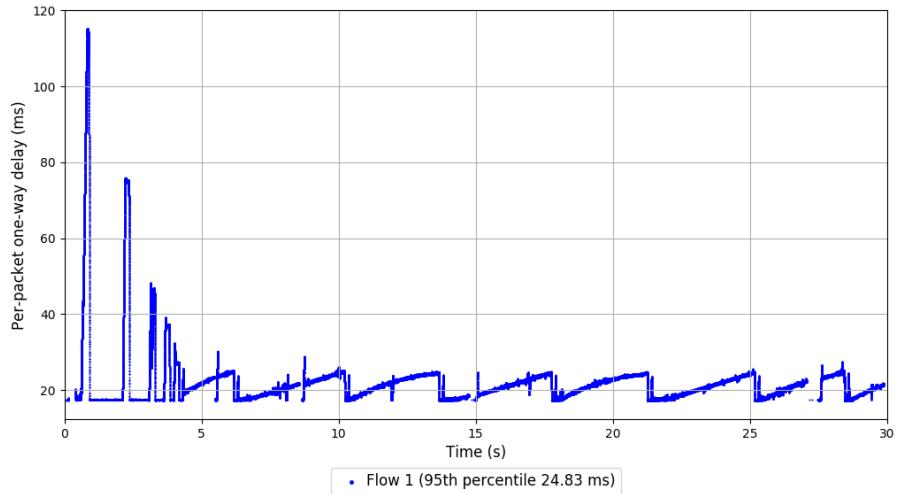
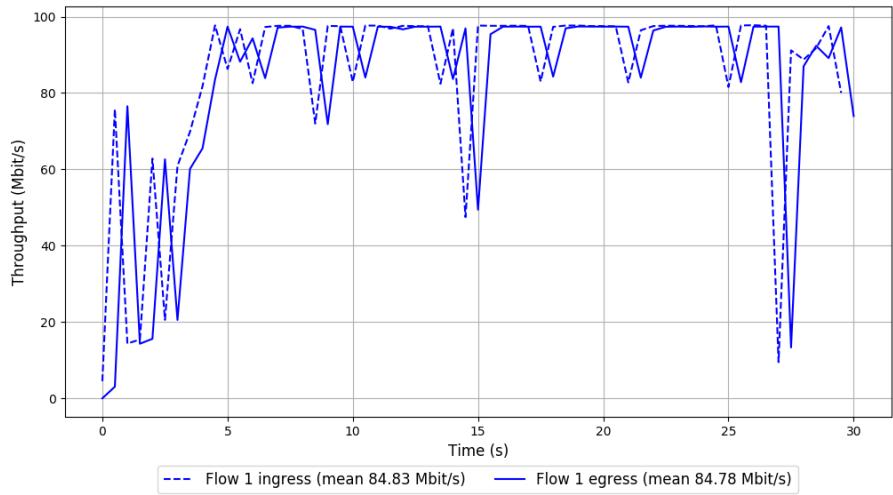


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-12-11 12:14:56
End at: 2019-12-11 12:15:26
Local clock offset: 4.17 ms
Remote clock offset: -1.747 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.78 Mbit/s
95th percentile per-packet one-way delay: 24.830 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 84.78 Mbit/s
95th percentile per-packet one-way delay: 24.830 ms
Loss rate: 0.21%
```

Run 4: Report of QUIC Cubic — Data Link

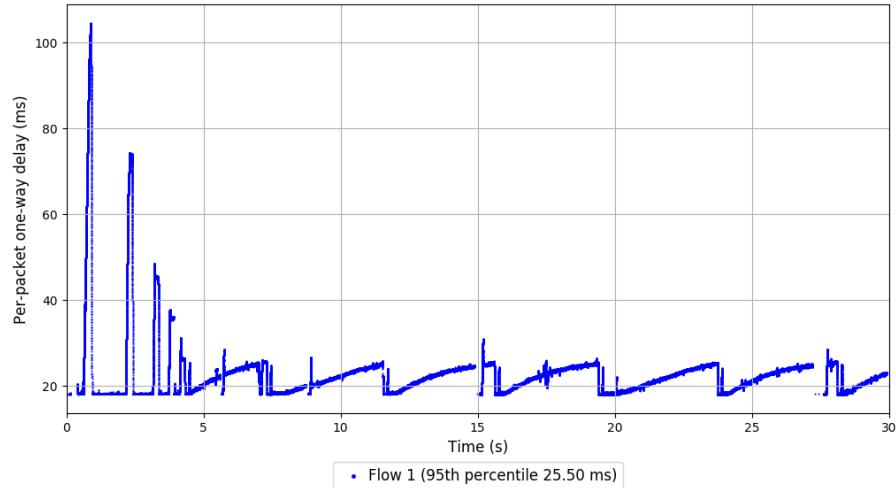
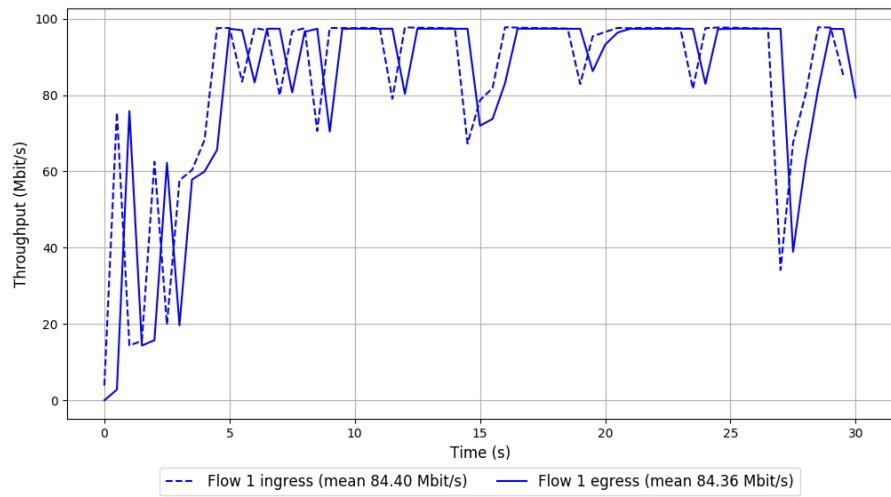


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-12-11 12:44:11
End at: 2019-12-11 12:44:41
Local clock offset: 3.716 ms
Remote clock offset: -2.882 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.36 Mbit/s
95th percentile per-packet one-way delay: 25.499 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 84.36 Mbit/s
95th percentile per-packet one-way delay: 25.499 ms
Loss rate: 0.21%
```

Run 5: Report of QUIC Cubic — Data Link

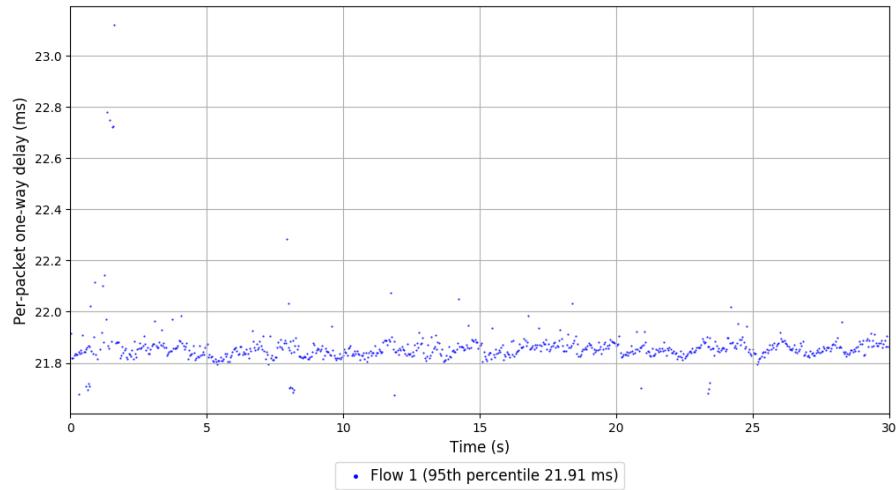
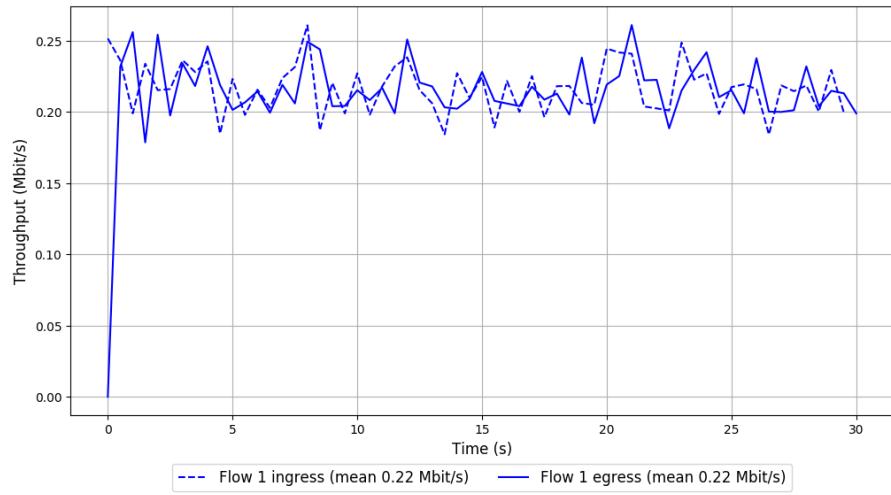


```
Run 1: Statistics of SCReAM

Start at: 2019-12-11 11:00:11
End at: 2019-12-11 11:00:41
Local clock offset: 6.736 ms
Remote clock offset: -7.286 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.911 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.911 ms
Loss rate: 0.13%
```

Run 1: Report of SCReAM — Data Link

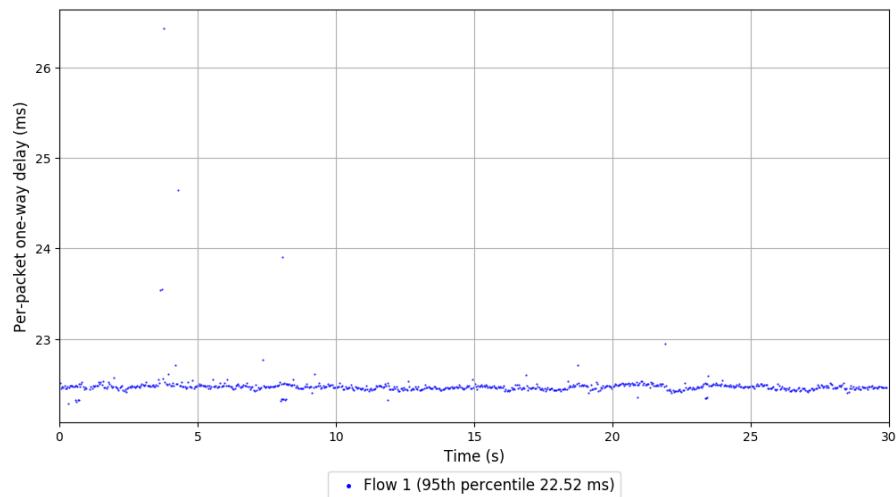
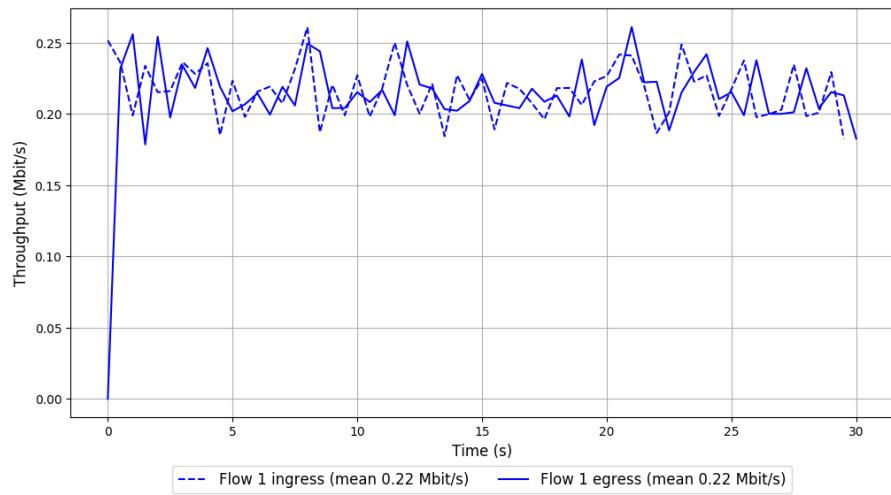


Run 2: Statistics of SCReAM

```
Start at: 2019-12-11 11:28:58
End at: 2019-12-11 11:29:28
Local clock offset: 7.703 ms
Remote clock offset: -5.847 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 22.518 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 22.518 ms
Loss rate: 0.13%
```

Run 2: Report of SCReAM — Data Link

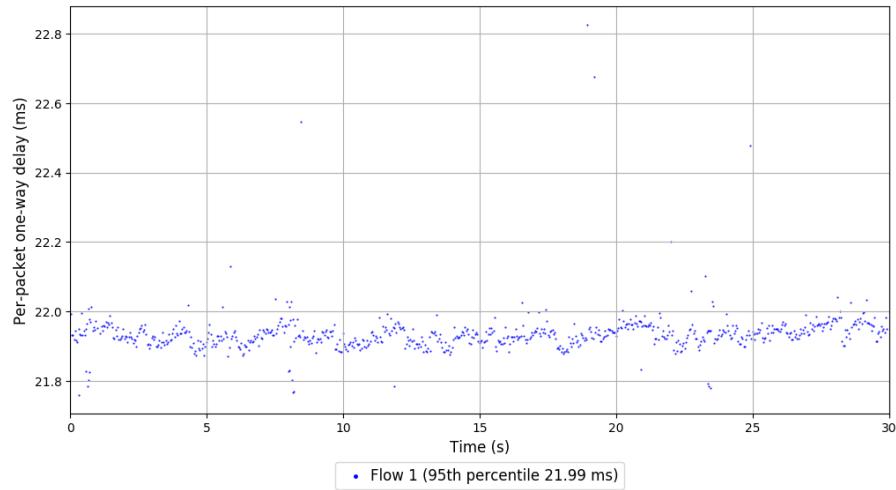
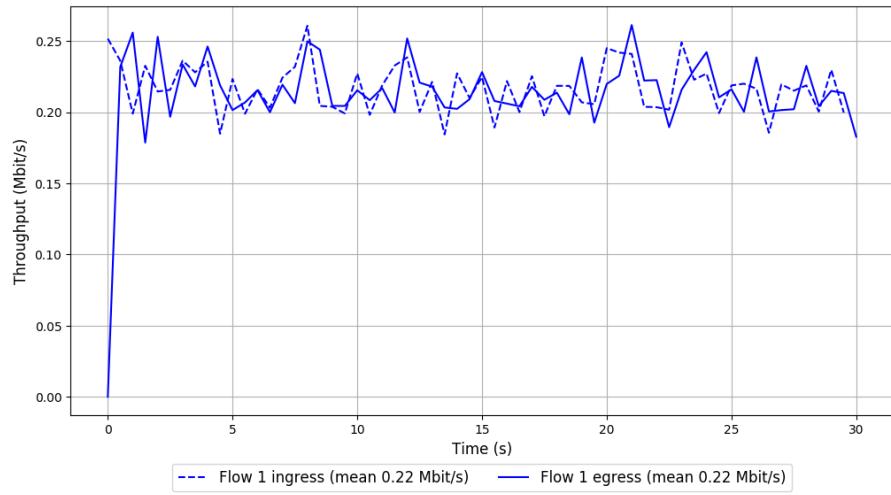


Run 3: Statistics of SCReAM

```
Start at: 2019-12-11 11:57:13
End at: 2019-12-11 11:57:43
Local clock offset: 4.955 ms
Remote clock offset: -5.453 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.987 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.987 ms
Loss rate: 0.26%
```

Run 3: Report of SCReAM — Data Link

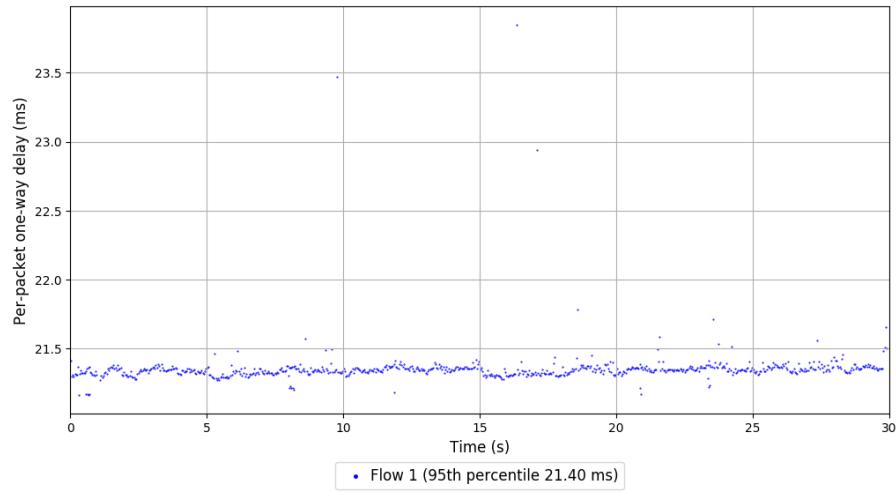
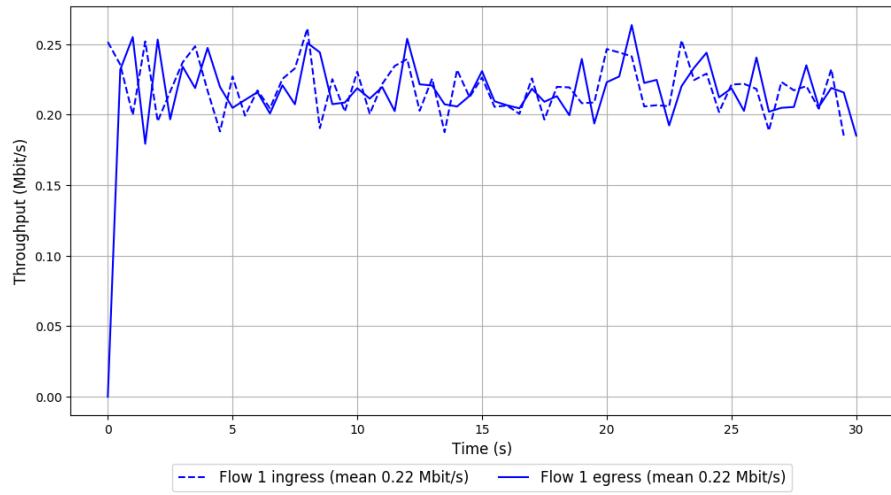


Run 4: Statistics of SCReAM

```
Start at: 2019-12-11 12:25:55
End at: 2019-12-11 12:26:25
Local clock offset: 3.545 ms
Remote clock offset: -5.949 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.404 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.404 ms
Loss rate: 0.13%
```

Run 4: Report of SCReAM — Data Link

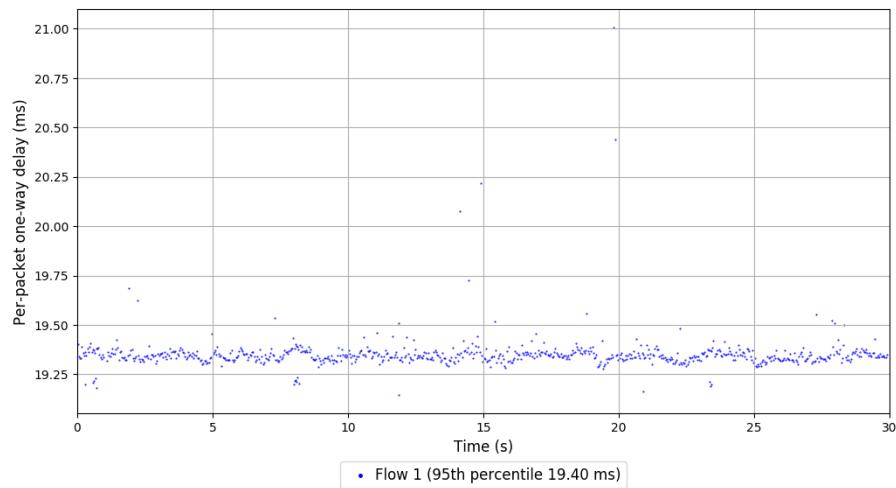
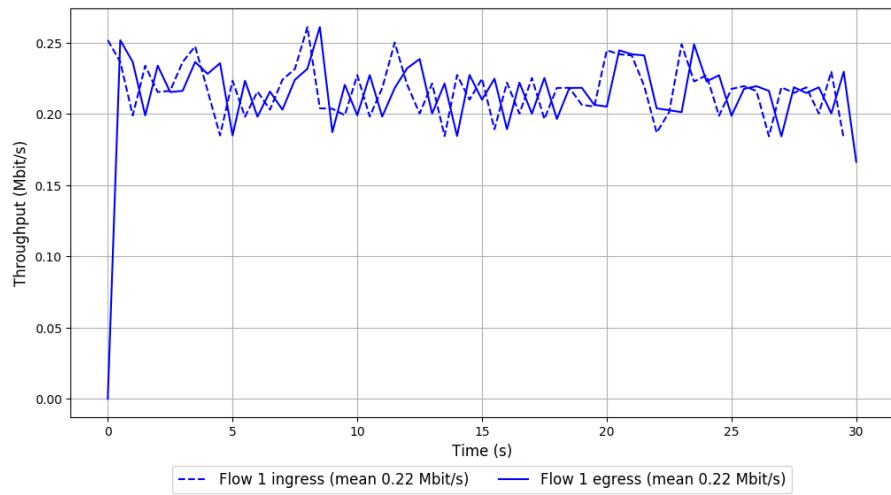


Run 5: Statistics of SCReAM

```
Start at: 2019-12-11 12:55:21
End at: 2019-12-11 12:55:51
Local clock offset: 4.665 ms
Remote clock offset: -3.681 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.404 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.404 ms
Loss rate: 0.13%
```

Run 5: Report of SCReAM — Data Link

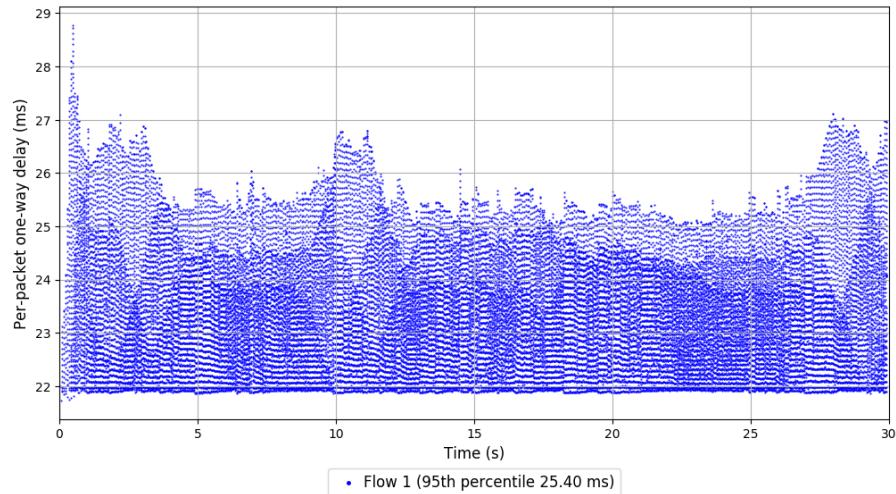
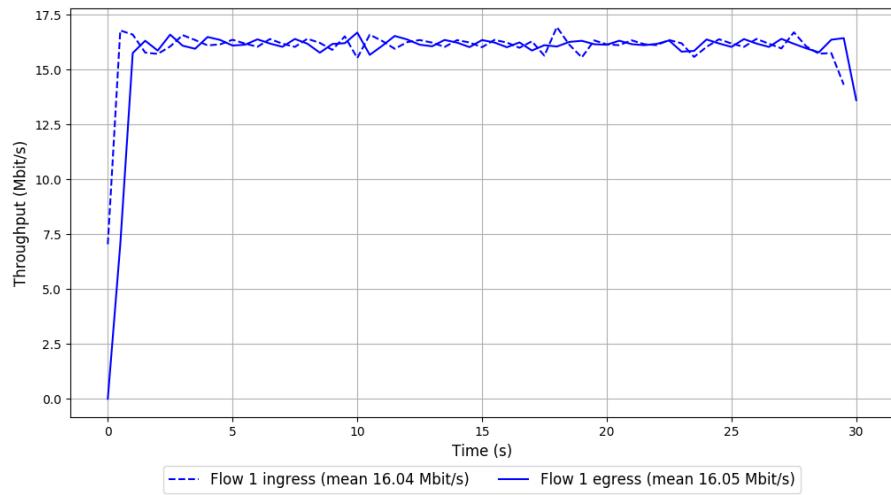


Run 1: Statistics of Sprout

```
Start at: 2019-12-11 10:50:45
End at: 2019-12-11 10:51:15
Local clock offset: 6.283 ms
Remote clock offset: -7.825 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.05 Mbit/s
95th percentile per-packet one-way delay: 25.400 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 16.05 Mbit/s
95th percentile per-packet one-way delay: 25.400 ms
Loss rate: 0.08%
```

Run 1: Report of Sprout — Data Link

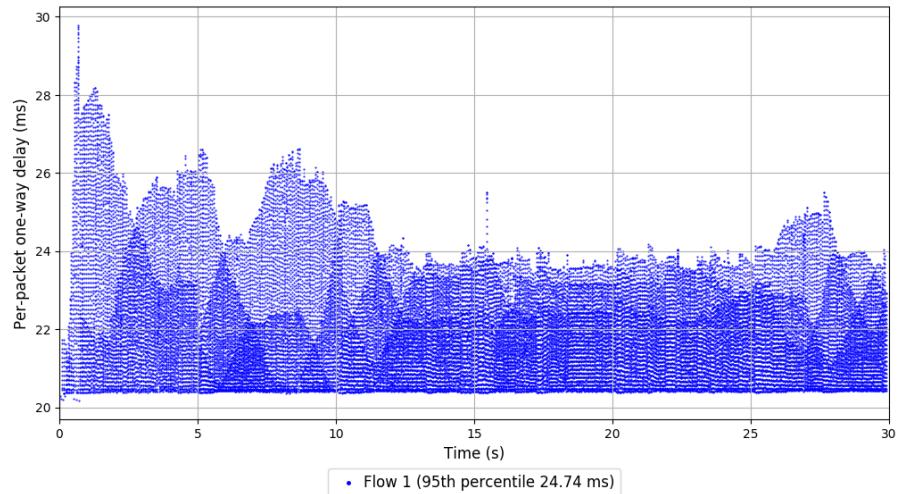
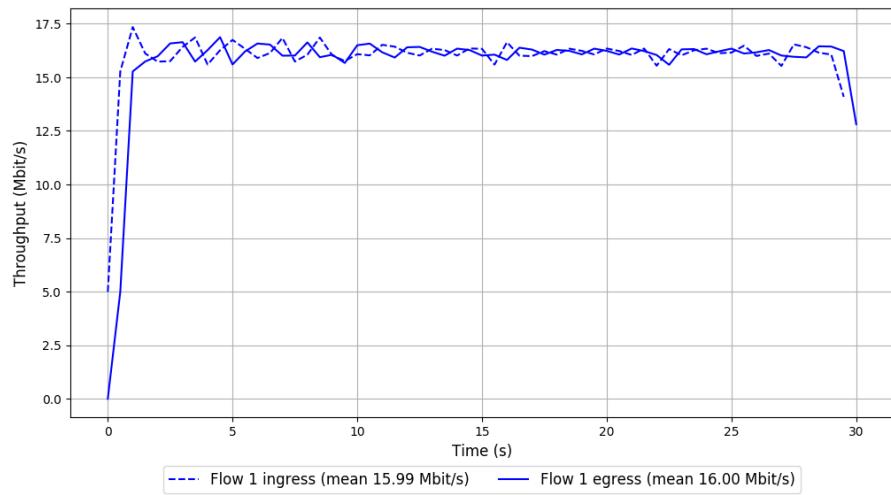


Run 2: Statistics of Sprout

```
Start at: 2019-12-11 11:19:31
End at: 2019-12-11 11:20:01
Local clock offset: 6.295 ms
Remote clock offset: -5.349 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.00 Mbit/s
95th percentile per-packet one-way delay: 24.741 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 16.00 Mbit/s
95th percentile per-packet one-way delay: 24.741 ms
Loss rate: 0.18%
```

Run 2: Report of Sprout — Data Link

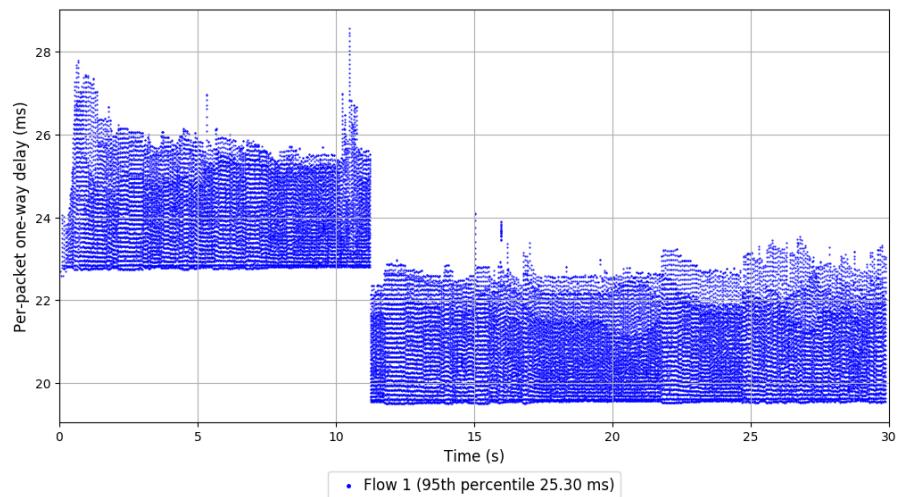
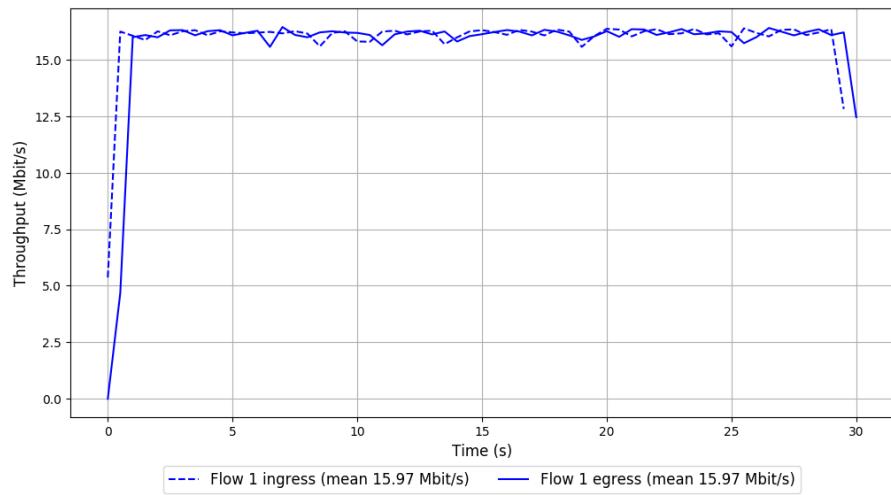


Run 3: Statistics of Sprout

```
Start at: 2019-12-11 11:47:50
End at: 2019-12-11 11:48:20
Local clock offset: 4.471 ms
Remote clock offset: -4.006 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: 25.297 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: 25.297 ms
Loss rate: 0.12%
```

Run 3: Report of Sprout — Data Link

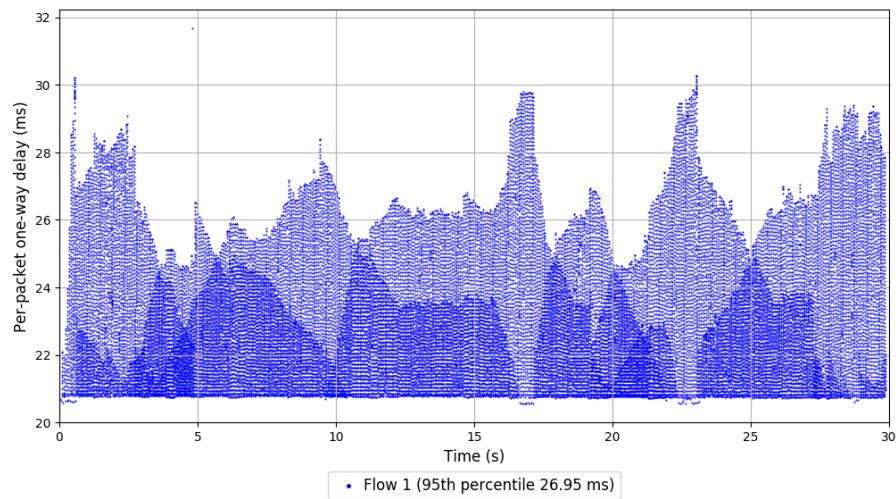
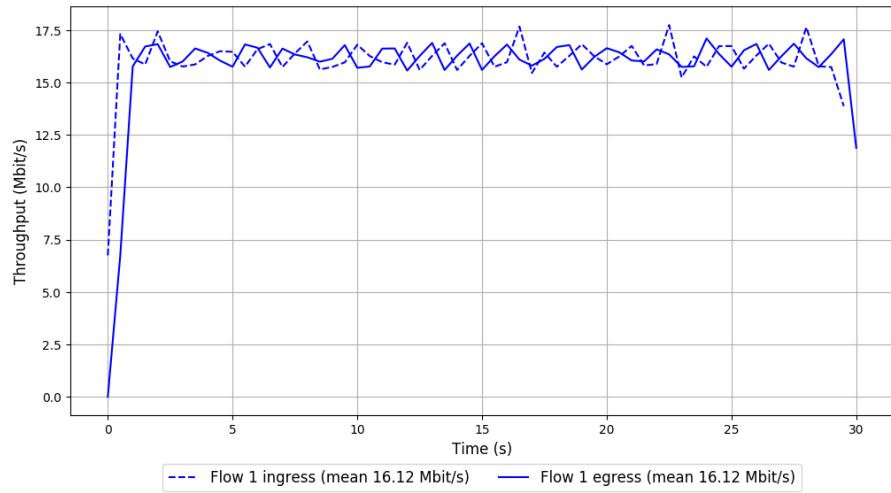


Run 4: Statistics of Sprout

```
Start at: 2019-12-11 12:16:05
End at: 2019-12-11 12:16:35
Local clock offset: 4.351 ms
Remote clock offset: -4.947 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 26.946 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 26.946 ms
Loss rate: 0.21%
```

Run 4: Report of Sprout — Data Link

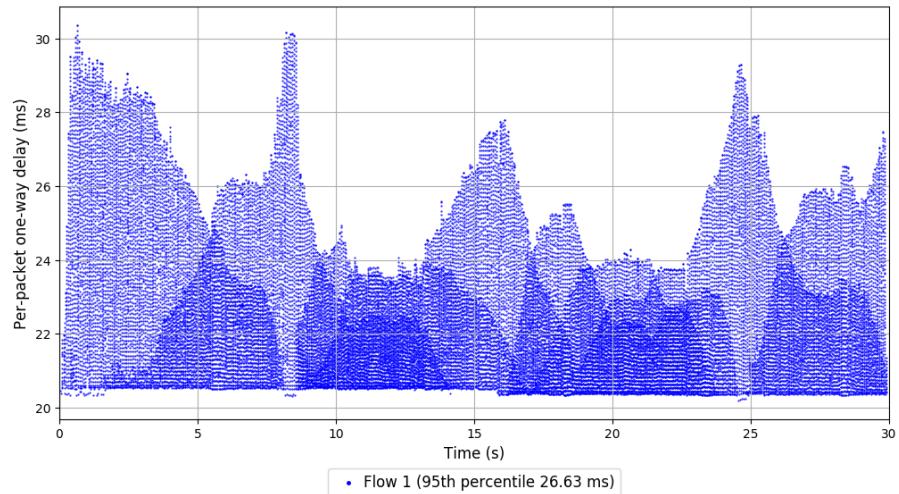
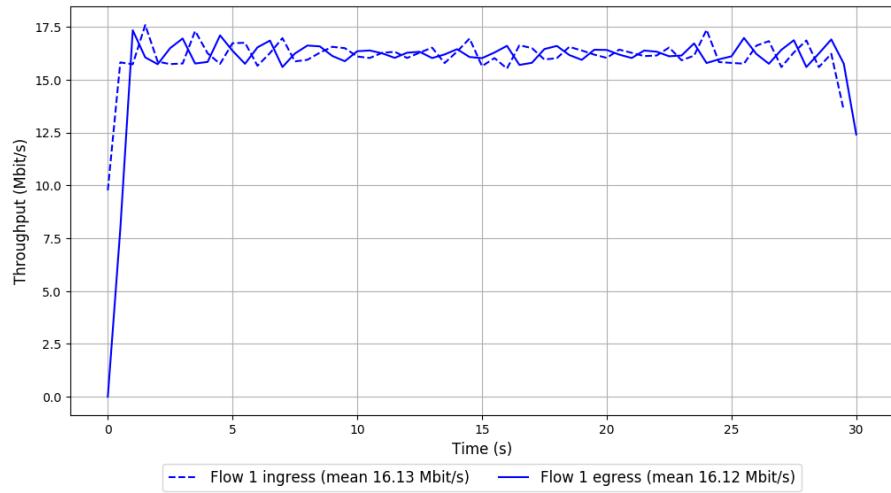


Run 5: Statistics of Sprout

```
Start at: 2019-12-11 12:45:22
End at: 2019-12-11 12:45:52
Local clock offset: 3.958 ms
Remote clock offset: -5.185 ms

# Below is generated by plot.py at 2019-12-11 13:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 26.629 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 26.629 ms
Loss rate: 0.17%
```

Run 5: Report of Sprout — Data Link

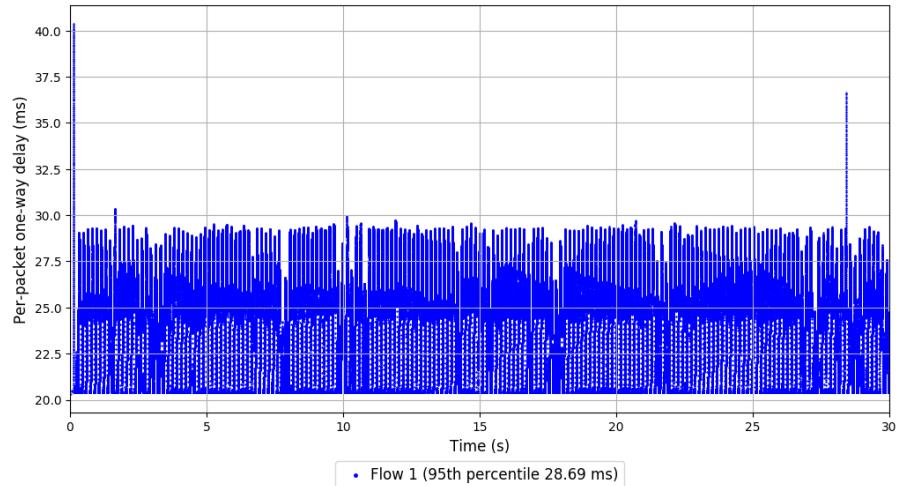
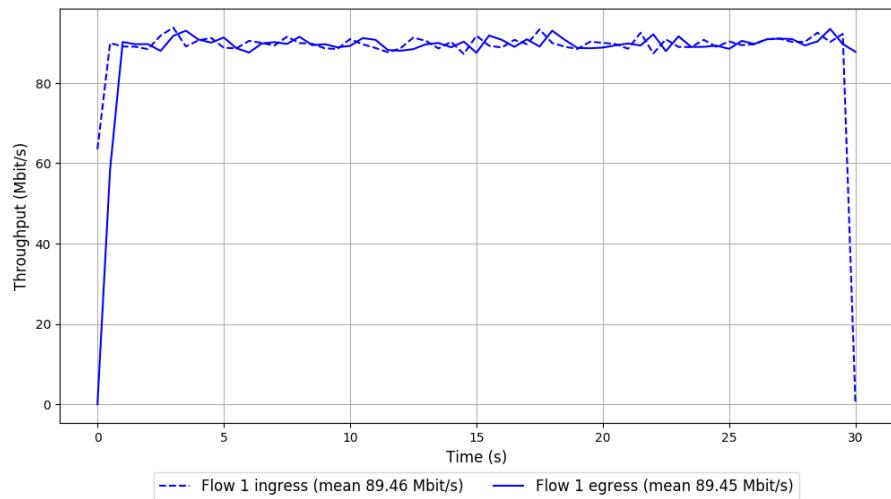


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-12-11 10:54:19
End at: 2019-12-11 10:54:49
Local clock offset: 6.054 ms
Remote clock offset: -6.526 ms

# Below is generated by plot.py at 2019-12-11 13:28:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.45 Mbit/s
95th percentile per-packet one-way delay: 28.686 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 89.45 Mbit/s
95th percentile per-packet one-way delay: 28.686 ms
Loss rate: 0.17%
```

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

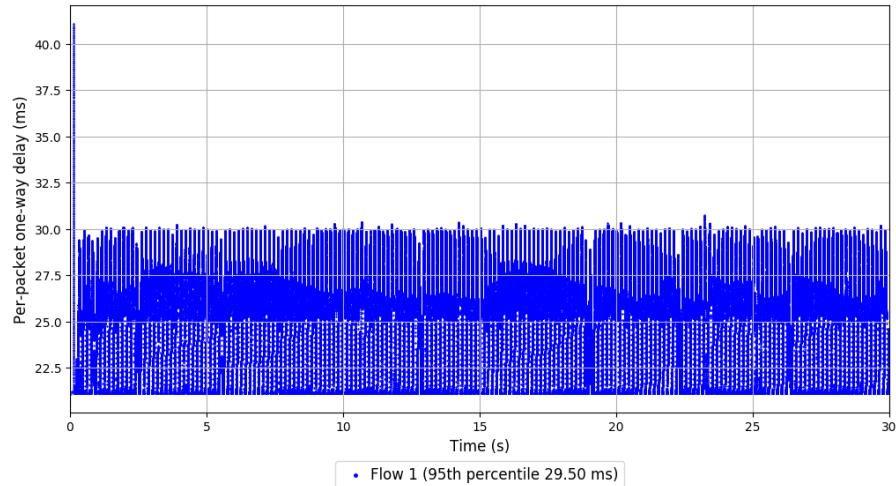
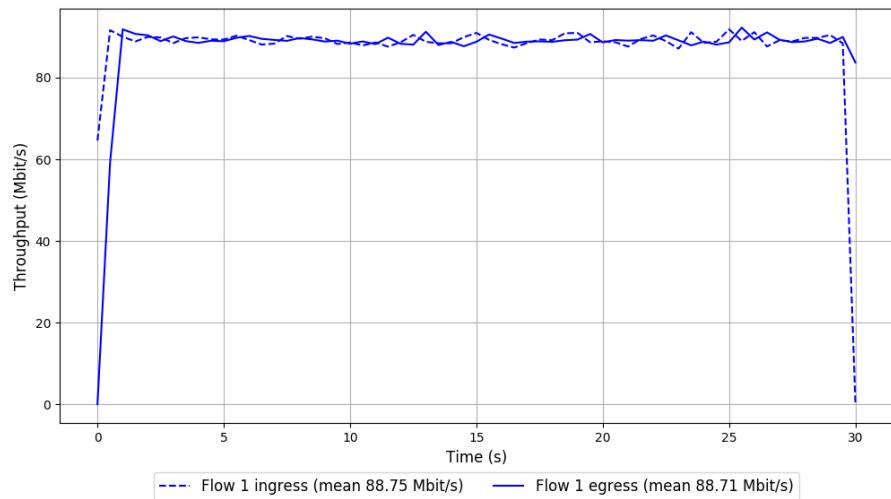


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-12-11 11:22:59
End at: 2019-12-11 11:23:29
Local clock offset: 6.966 ms
Remote clock offset: -5.446 ms

# Below is generated by plot.py at 2019-12-11 13:28:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.71 Mbit/s
95th percentile per-packet one-way delay: 29.499 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 88.71 Mbit/s
95th percentile per-packet one-way delay: 29.499 ms
Loss rate: 0.20%
```

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

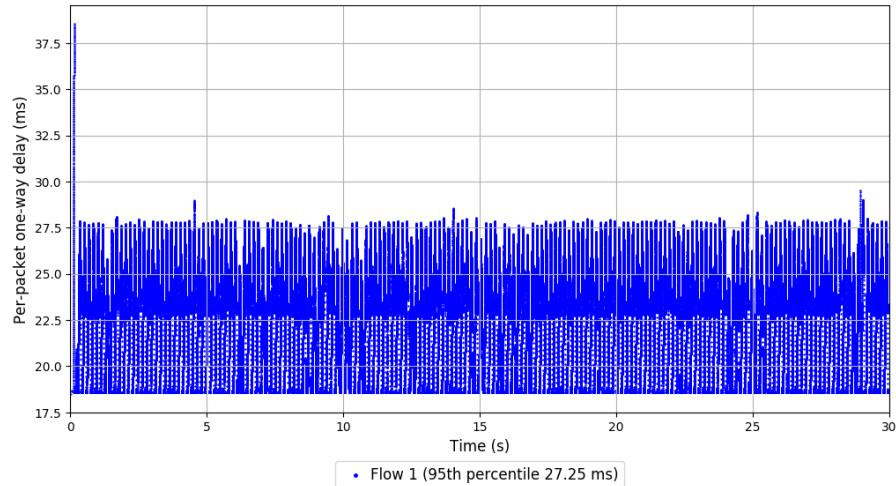
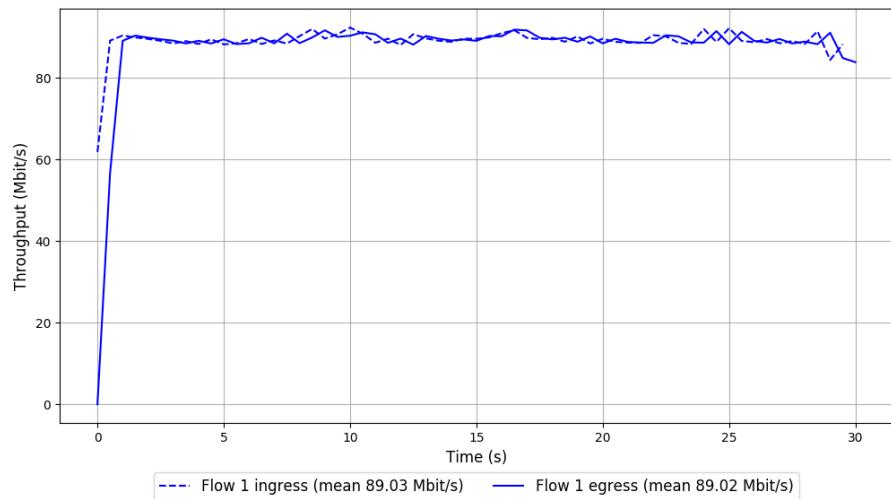


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-12-11 11:51:18
End at: 2019-12-11 11:51:48
Local clock offset: 4.752 ms
Remote clock offset: -2.559 ms

# Below is generated by plot.py at 2019-12-11 13:28:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.02 Mbit/s
95th percentile per-packet one-way delay: 27.247 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 89.02 Mbit/s
95th percentile per-packet one-way delay: 27.247 ms
Loss rate: 0.17%
```

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

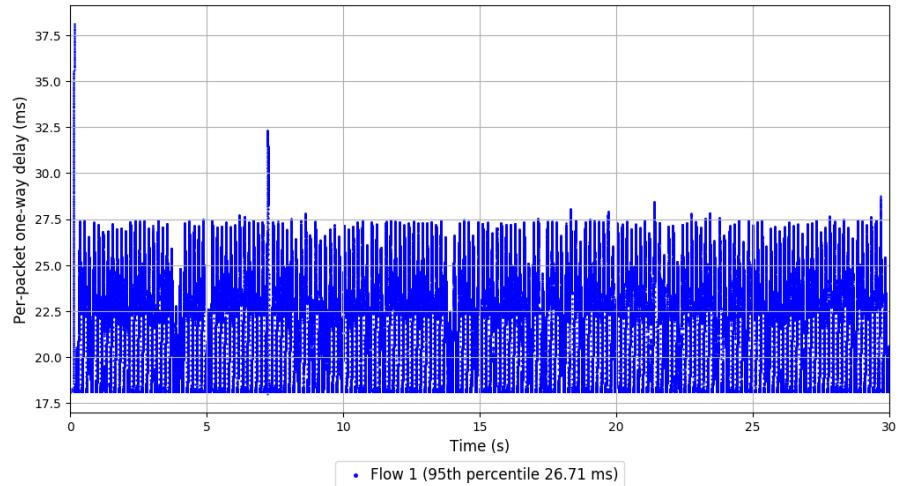
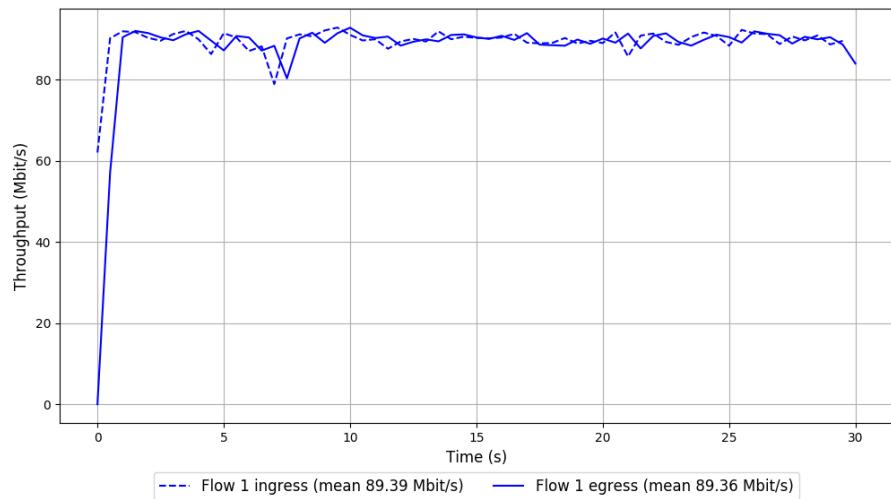


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-12-11 12:19:33
End at: 2019-12-11 12:20:03
Local clock offset: 3.986 ms
Remote clock offset: -2.682 ms

# Below is generated by plot.py at 2019-12-11 13:28:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.36 Mbit/s
95th percentile per-packet one-way delay: 26.711 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 89.36 Mbit/s
95th percentile per-packet one-way delay: 26.711 ms
Loss rate: 0.19%
```

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

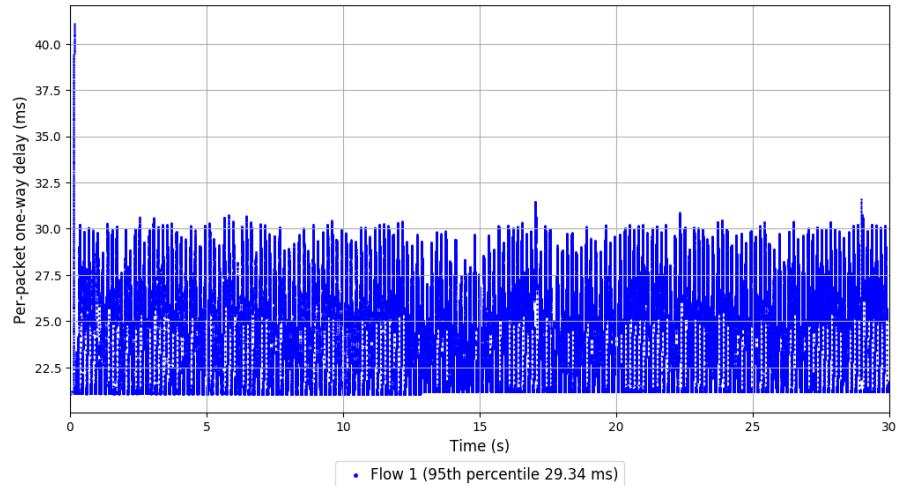
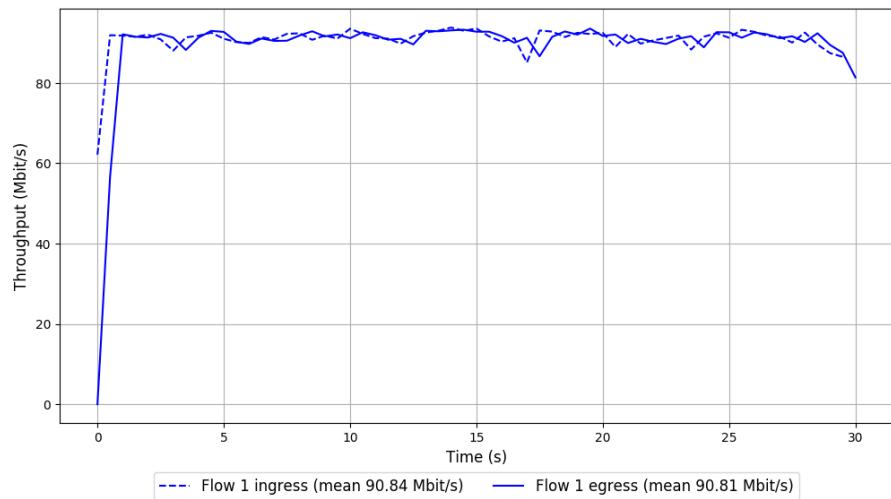


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-12-11 12:49:09
End at: 2019-12-11 12:49:39
Local clock offset: 4.961 ms
Remote clock offset: -5.172 ms

# Below is generated by plot.py at 2019-12-11 13:28:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.81 Mbit/s
95th percentile per-packet one-way delay: 29.339 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 90.81 Mbit/s
95th percentile per-packet one-way delay: 29.339 ms
Loss rate: 0.20%
```

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

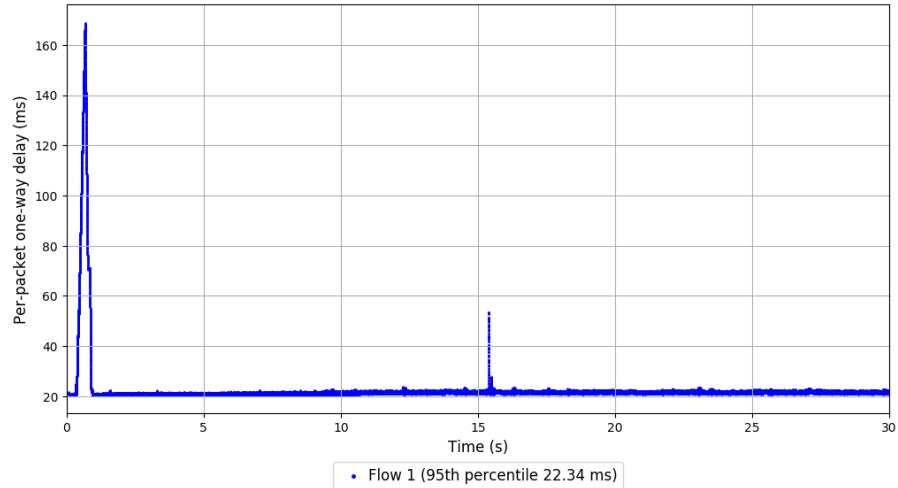
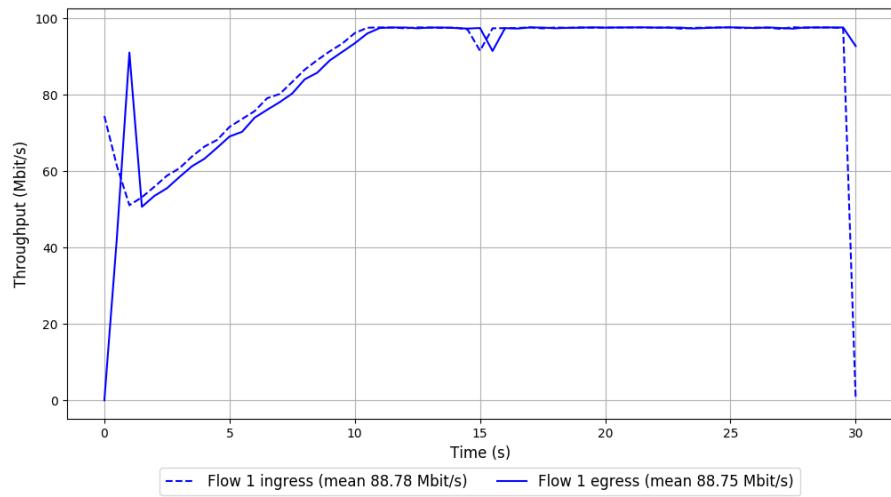


Run 1: Statistics of TCP Vegas

```
Start at: 2019-12-11 11:12:23
End at: 2019-12-11 11:12:53
Local clock offset: 7.219 ms
Remote clock offset: -5.118 ms

# Below is generated by plot.py at 2019-12-11 13:28:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 22.336 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 22.336 ms
Loss rate: 0.18%
```

Run 1: Report of TCP Vegas — Data Link

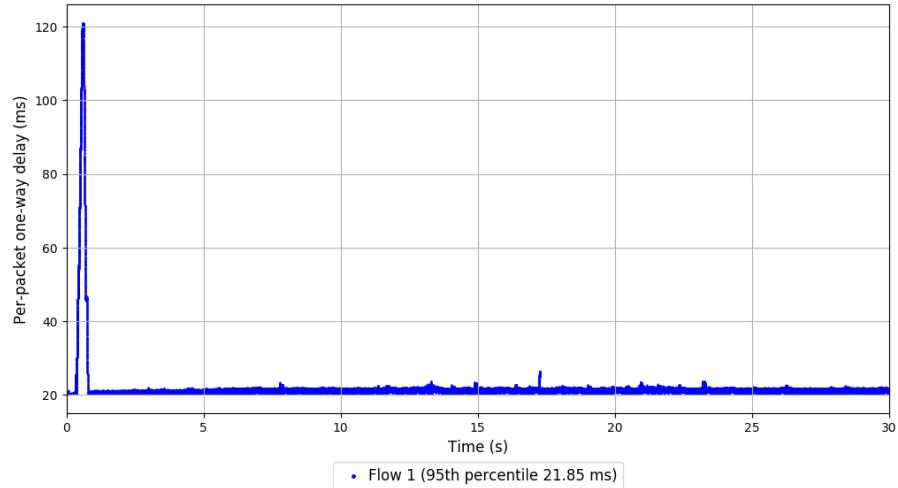
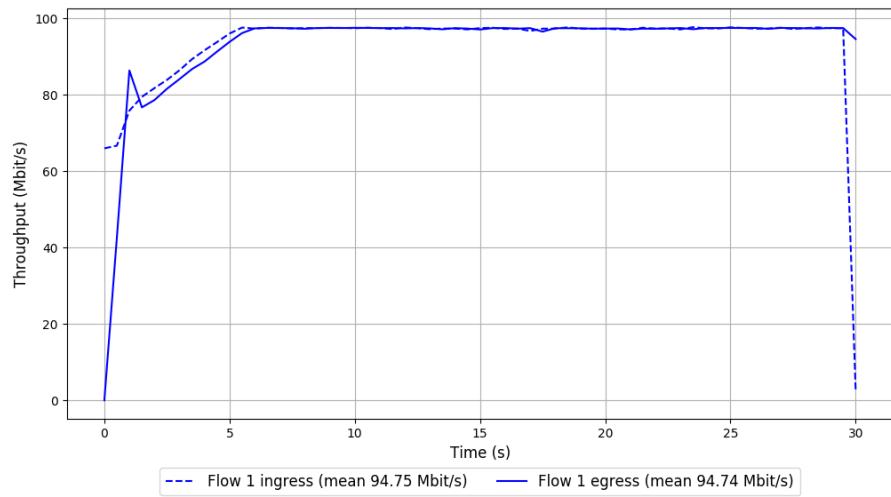


Run 2: Statistics of TCP Vegas

```
Start at: 2019-12-11 11:40:57
End at: 2019-12-11 11:41:27
Local clock offset: 5.922 ms
Remote clock offset: -4.578 ms

# Below is generated by plot.py at 2019-12-11 13:28:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 21.849 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 21.849 ms
Loss rate: 0.17%
```

Run 2: Report of TCP Vegas — Data Link

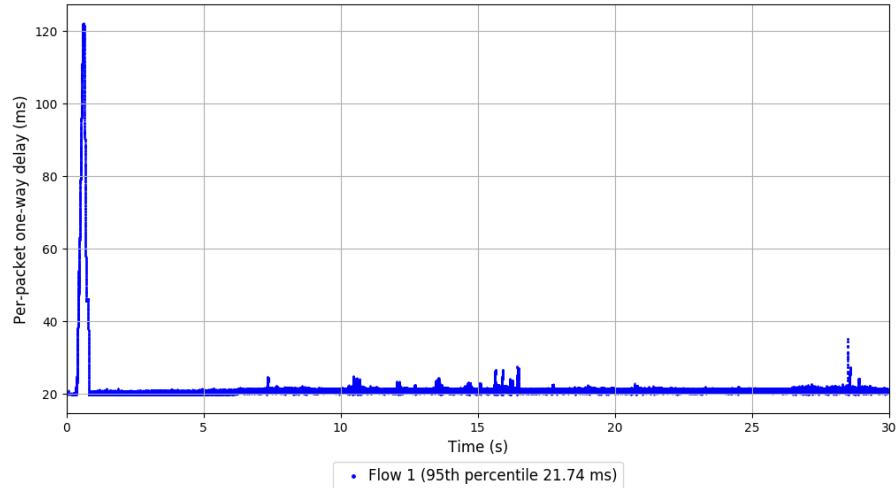
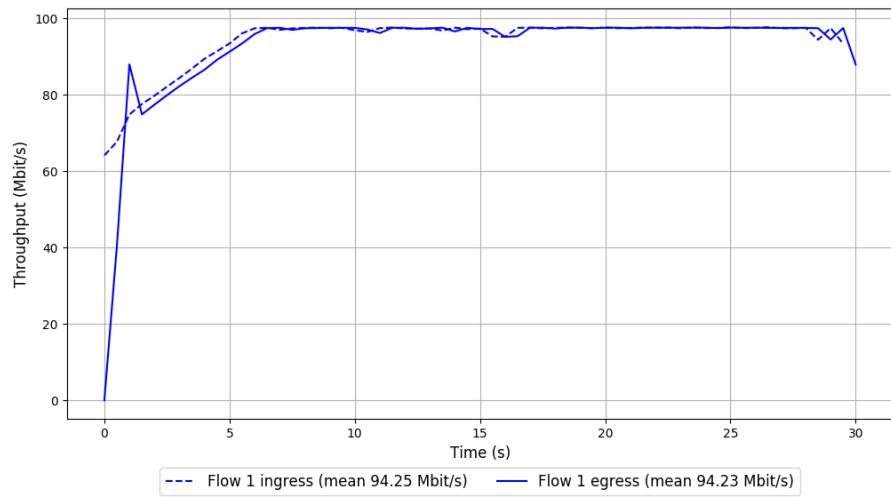


Run 3: Statistics of TCP Vegas

```
Start at: 2019-12-11 12:09:15
End at: 2019-12-11 12:09:45
Local clock offset: 3.989 ms
Remote clock offset: -4.18 ms

# Below is generated by plot.py at 2019-12-11 13:28:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.23 Mbit/s
95th percentile per-packet one-way delay: 21.741 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 94.23 Mbit/s
95th percentile per-packet one-way delay: 21.741 ms
Loss rate: 0.17%
```

Run 3: Report of TCP Vegas — Data Link

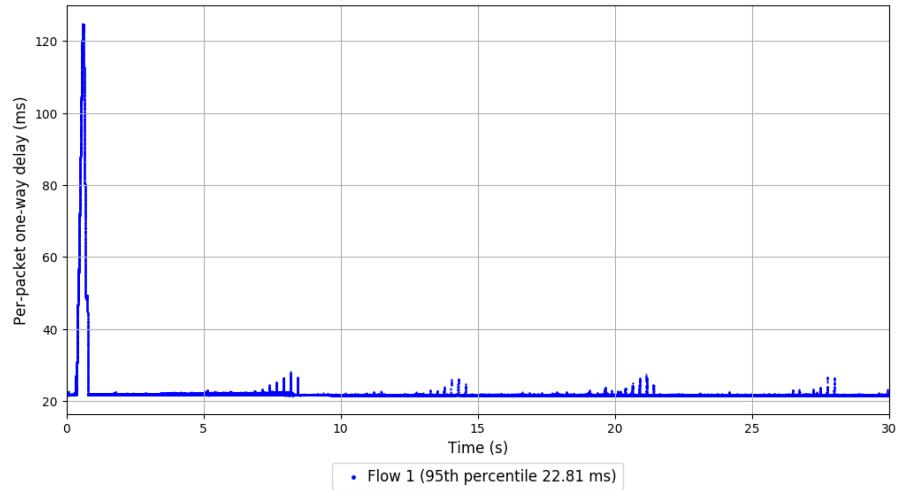
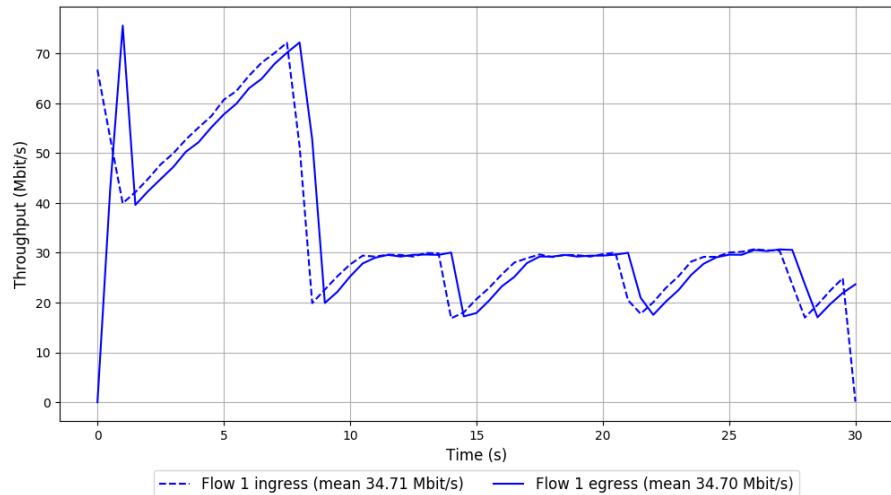


Run 4: Statistics of TCP Vegas

```
Start at: 2019-12-11 12:38:15
End at: 2019-12-11 12:38:46
Local clock offset: 3.699 ms
Remote clock offset: -5.649 ms

# Below is generated by plot.py at 2019-12-11 13:28:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.70 Mbit/s
95th percentile per-packet one-way delay: 22.807 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 34.70 Mbit/s
95th percentile per-packet one-way delay: 22.807 ms
Loss rate: 0.21%
```

Run 4: Report of TCP Vegas — Data Link

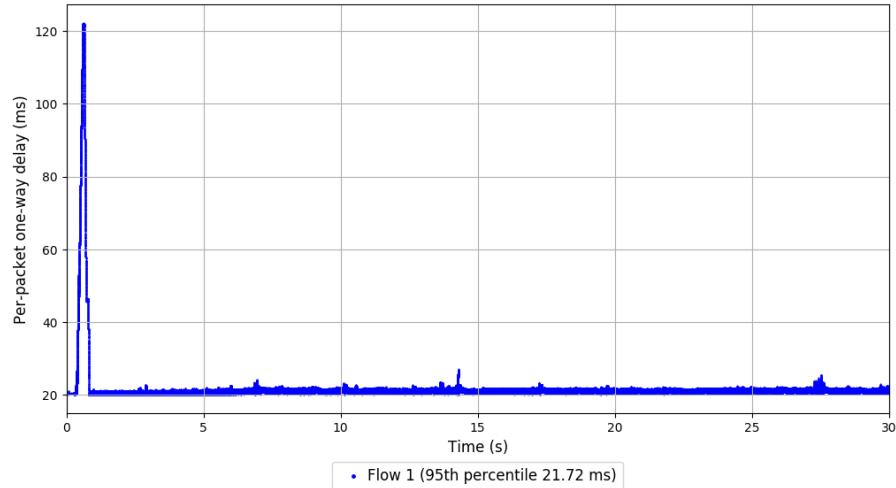
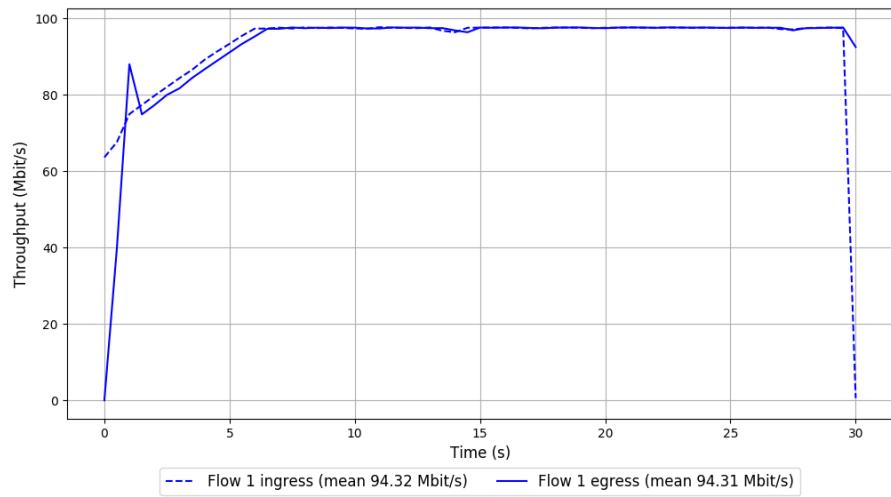


Run 5: Statistics of TCP Vegas

```
Start at: 2019-12-11 13:08:00
End at: 2019-12-11 13:08:30
Local clock offset: 4.988 ms
Remote clock offset: -4.383 ms

# Below is generated by plot.py at 2019-12-11 13:29:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 21.723 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 21.723 ms
Loss rate: 0.17%
```

Run 5: Report of TCP Vegas — Data Link

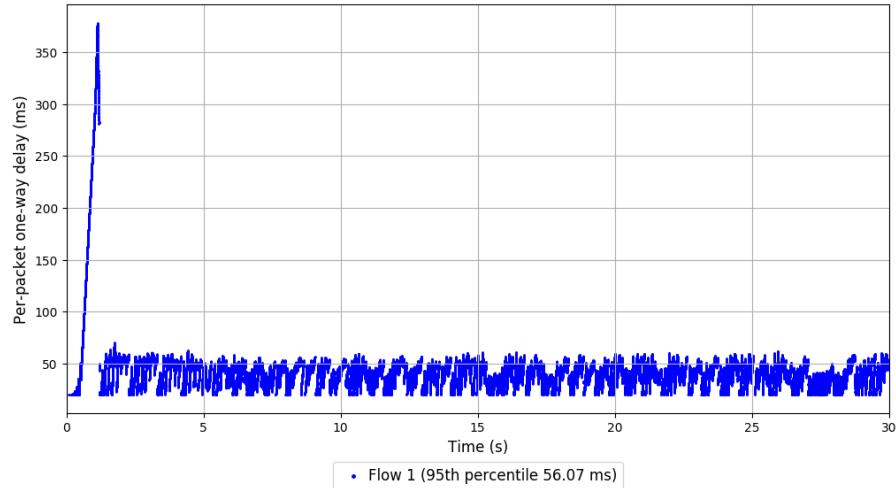
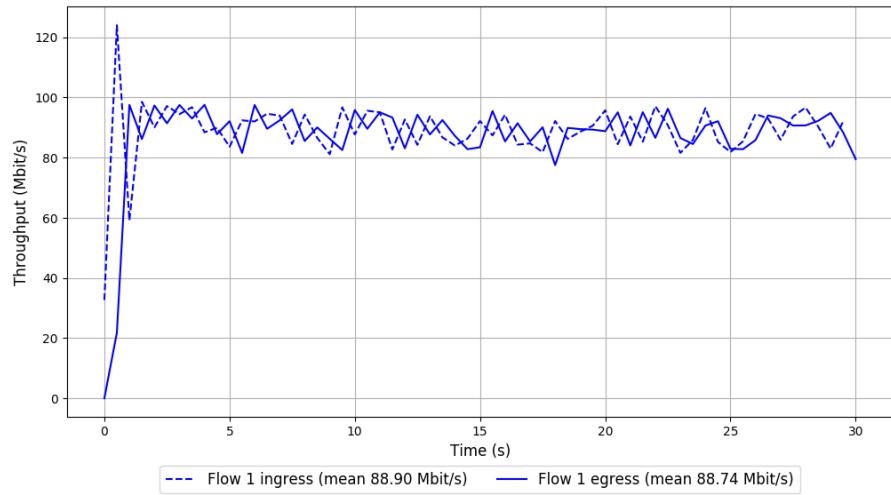


Run 1: Statistics of Verus

```
Start at: 2019-12-11 10:51:53
End at: 2019-12-11 10:52:23
Local clock offset: 6.278 ms
Remote clock offset: -6.03 ms

# Below is generated by plot.py at 2019-12-11 13:29:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 56.070 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 56.070 ms
Loss rate: 0.33%
```

Run 1: Report of Verus — Data Link

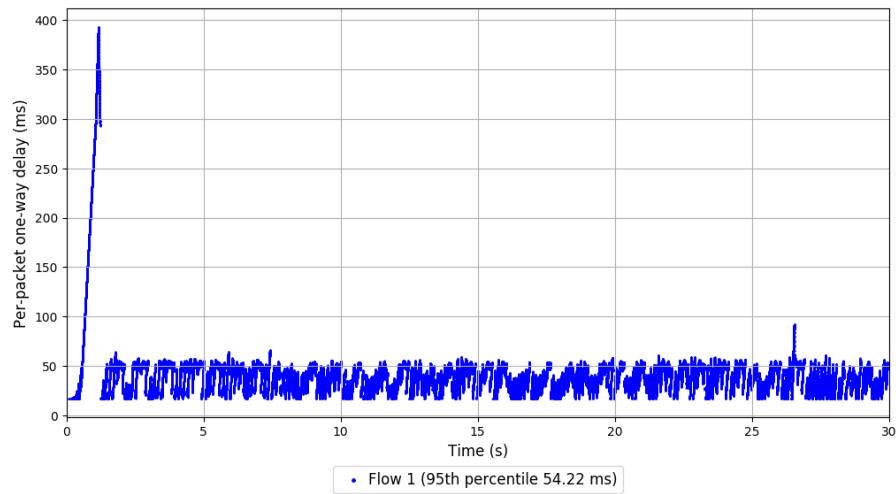
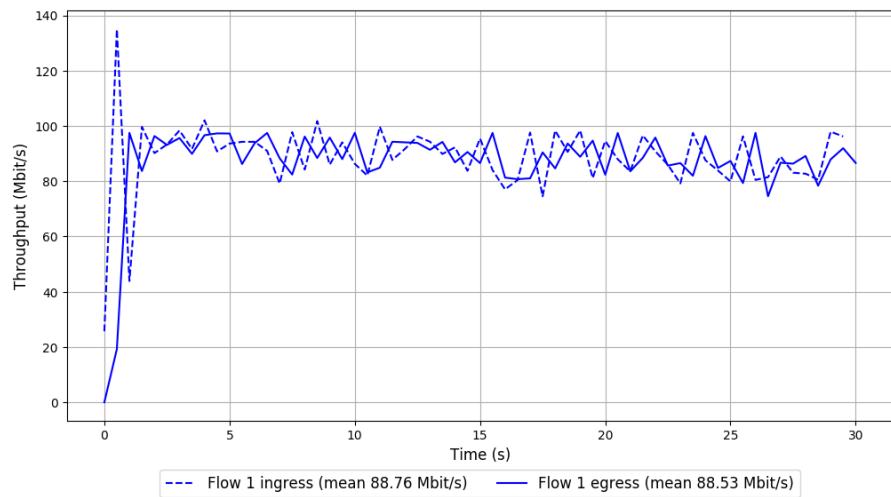


Run 2: Statistics of Verus

```
Start at: 2019-12-11 11:20:37
End at: 2019-12-11 11:21:07
Local clock offset: 6.162 ms
Remote clock offset: -2.163 ms

# Below is generated by plot.py at 2019-12-11 13:29:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.53 Mbit/s
95th percentile per-packet one-way delay: 54.221 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 88.53 Mbit/s
95th percentile per-packet one-way delay: 54.221 ms
Loss rate: 0.39%
```

Run 2: Report of Verus — Data Link

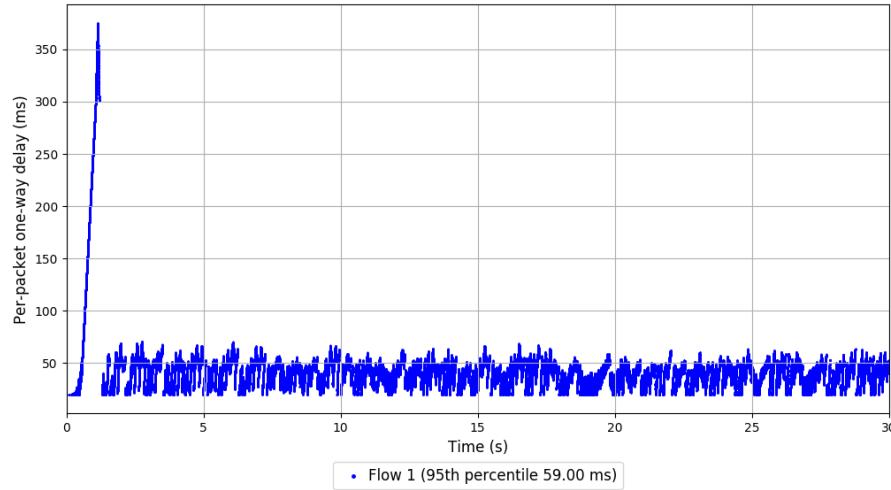
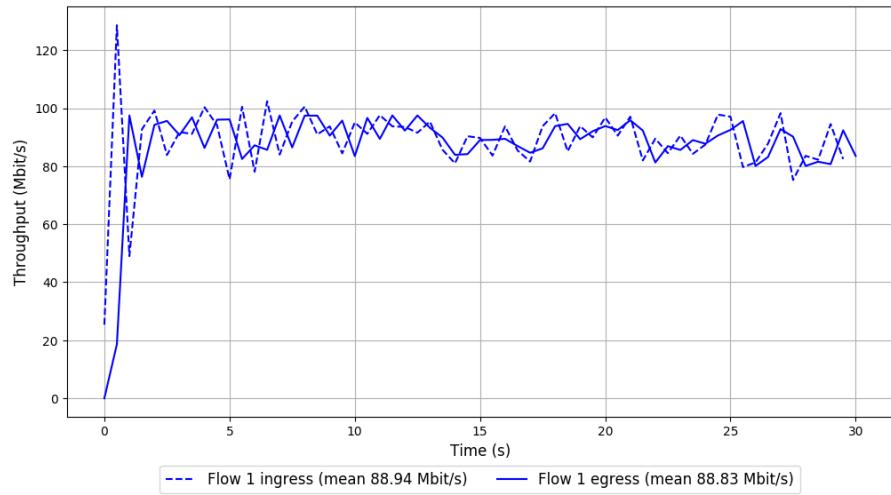


Run 3: Statistics of Verus

```
Start at: 2019-12-11 11:48:56
End at: 2019-12-11 11:49:26
Local clock offset: 4.38 ms
Remote clock offset: -4.087 ms

# Below is generated by plot.py at 2019-12-11 13:29:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.83 Mbit/s
95th percentile per-packet one-way delay: 59.001 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 88.83 Mbit/s
95th percentile per-packet one-way delay: 59.001 ms
Loss rate: 0.27%
```

Run 3: Report of Verus — Data Link

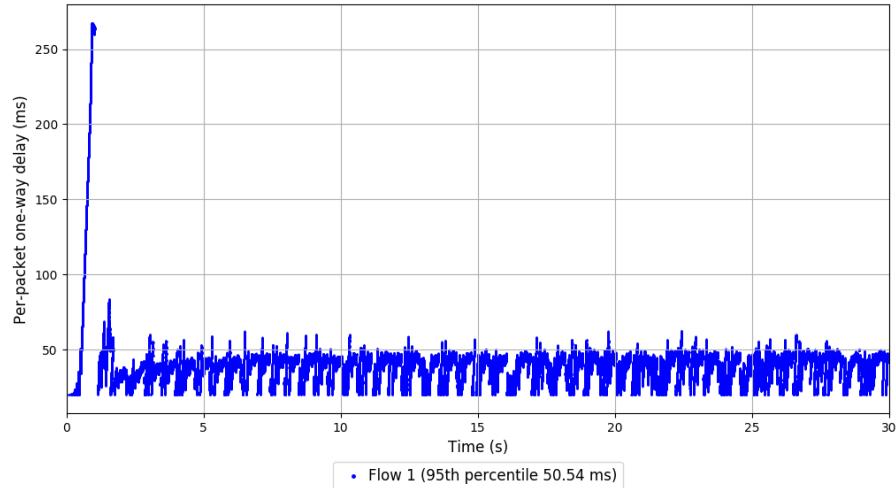
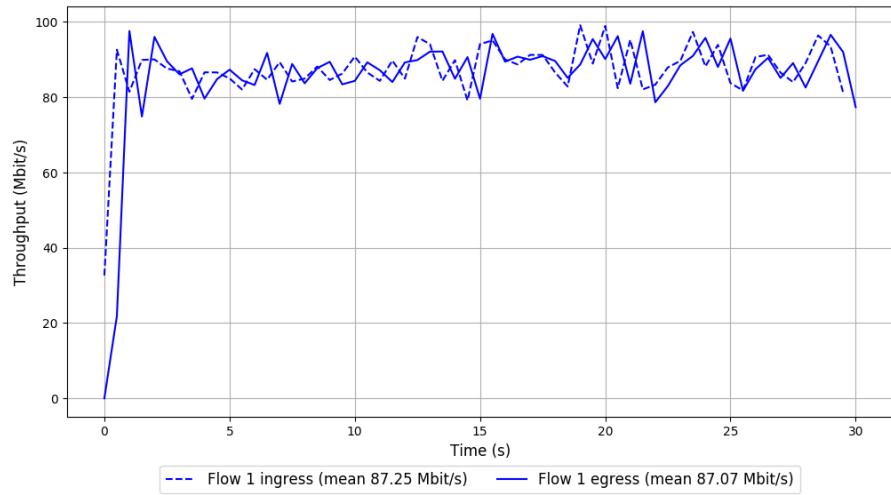


Run 4: Statistics of Verus

```
Start at: 2019-12-11 12:17:11
End at: 2019-12-11 12:17:41
Local clock offset: 3.788 ms
Remote clock offset: -4.532 ms

# Below is generated by plot.py at 2019-12-11 13:29:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.07 Mbit/s
95th percentile per-packet one-way delay: 50.538 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 87.07 Mbit/s
95th percentile per-packet one-way delay: 50.538 ms
Loss rate: 0.37%
```

Run 4: Report of Verus — Data Link

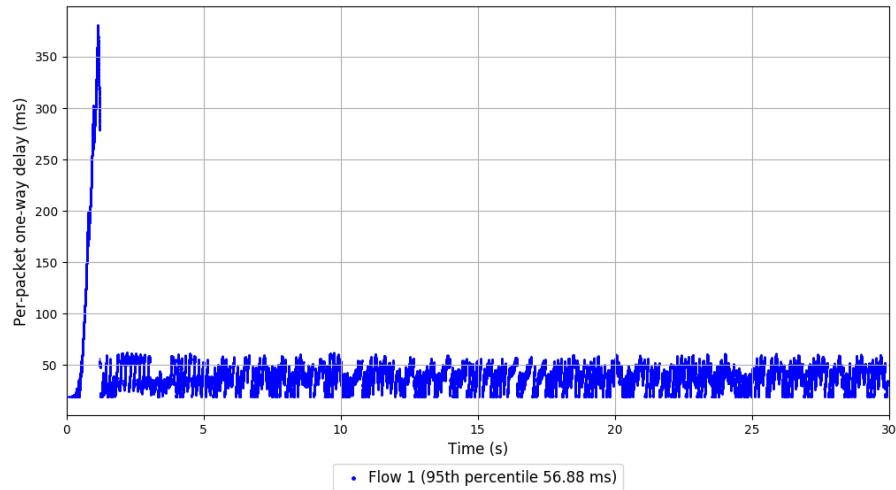
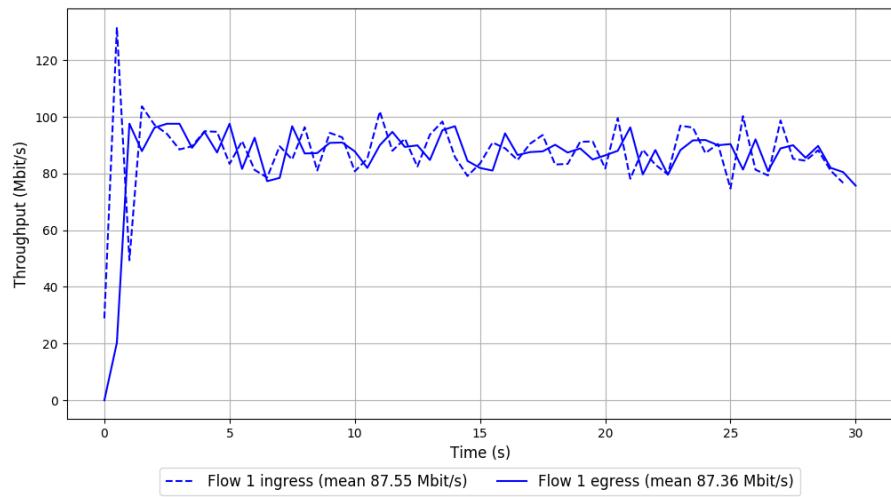


Run 5: Statistics of Verus

```
Start at: 2019-12-11 12:46:28
End at: 2019-12-11 12:46:58
Local clock offset: 4.064 ms
Remote clock offset: -4.174 ms

# Below is generated by plot.py at 2019-12-11 13:29:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.36 Mbit/s
95th percentile per-packet one-way delay: 56.875 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 87.36 Mbit/s
95th percentile per-packet one-way delay: 56.875 ms
Loss rate: 0.30%
```

Run 5: Report of Verus — Data Link

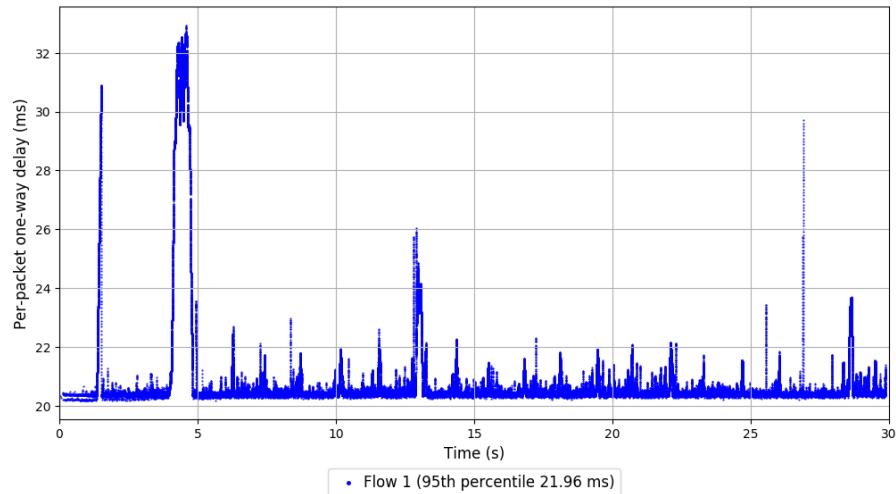
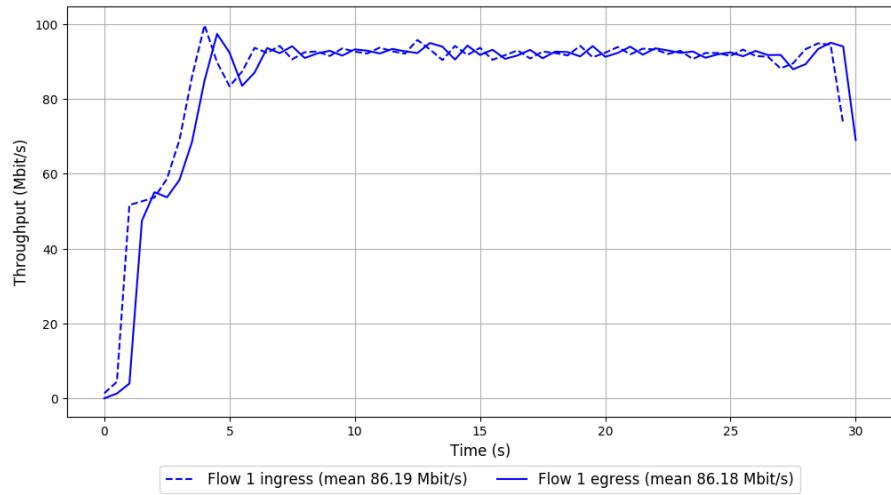


```
Run 1: Statistics of PCC-Vivace

Start at: 2019-12-11 11:09:58
End at: 2019-12-11 11:10:28
Local clock offset: 6.667 ms
Remote clock offset: -5.367 ms

# Below is generated by plot.py at 2019-12-11 13:29:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.18 Mbit/s
95th percentile per-packet one-way delay: 21.965 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 86.18 Mbit/s
95th percentile per-packet one-way delay: 21.965 ms
Loss rate: 0.17%
```

Run 1: Report of PCC-Vivace — Data Link

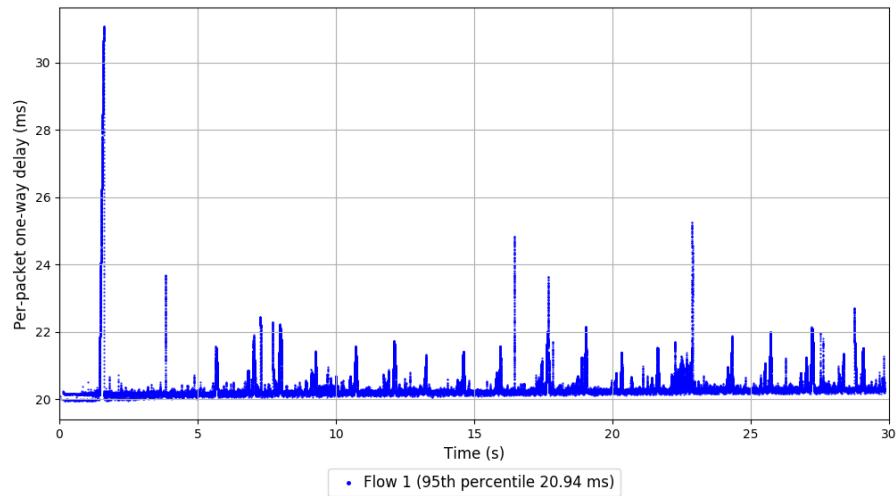
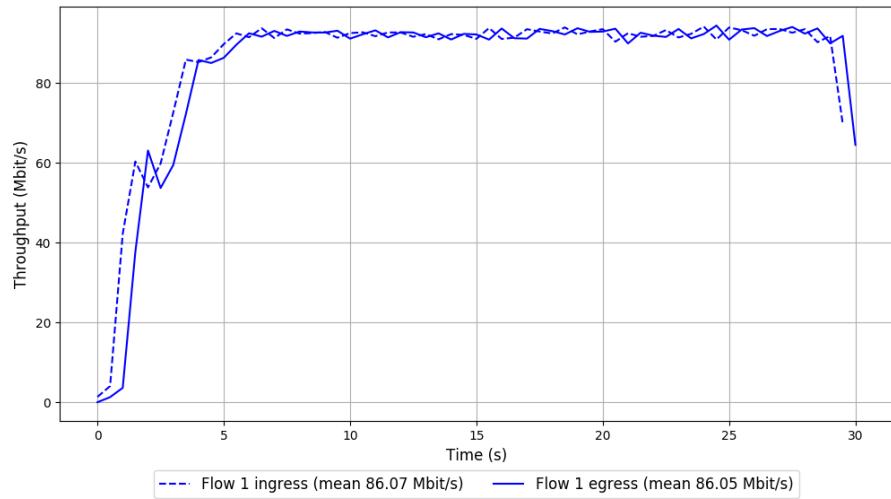


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-12-11 11:38:33
End at: 2019-12-11 11:39:03
Local clock offset: 7.283 ms
Remote clock offset: -3.859 ms

# Below is generated by plot.py at 2019-12-11 13:29:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.05 Mbit/s
95th percentile per-packet one-way delay: 20.942 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 86.05 Mbit/s
95th percentile per-packet one-way delay: 20.942 ms
Loss rate: 0.18%
```

Run 2: Report of PCC-Vivace — Data Link

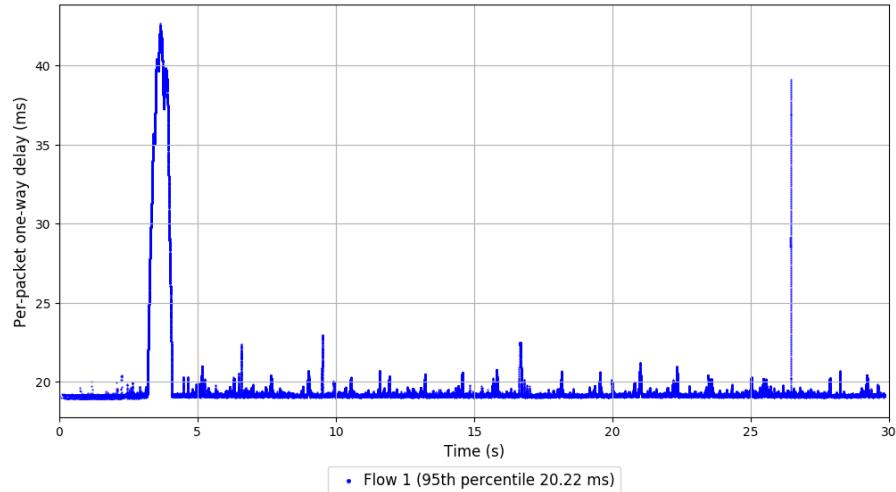
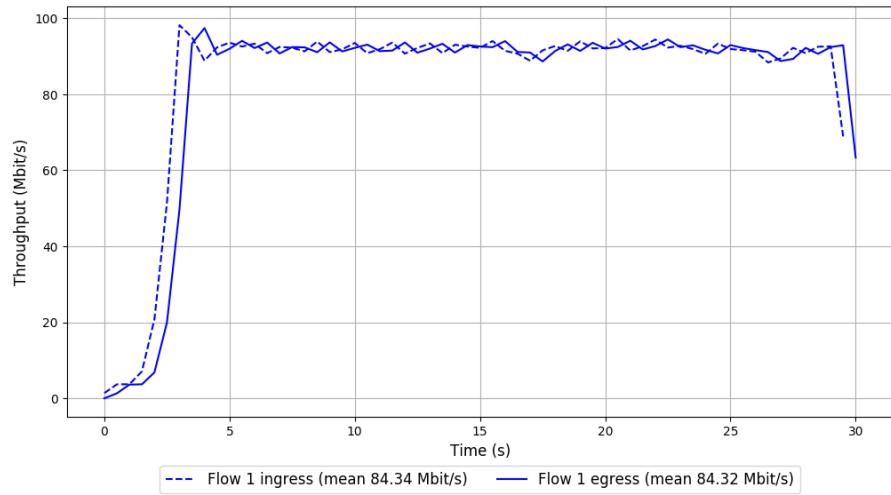


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-12-11 12:06:53
End at: 2019-12-11 12:07:23
Local clock offset: 3.498 ms
Remote clock offset: -3.897 ms

# Below is generated by plot.py at 2019-12-11 13:30:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.32 Mbit/s
95th percentile per-packet one-way delay: 20.216 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 84.32 Mbit/s
95th percentile per-packet one-way delay: 20.216 ms
Loss rate: 0.19%
```

Run 3: Report of PCC-Vivace — Data Link

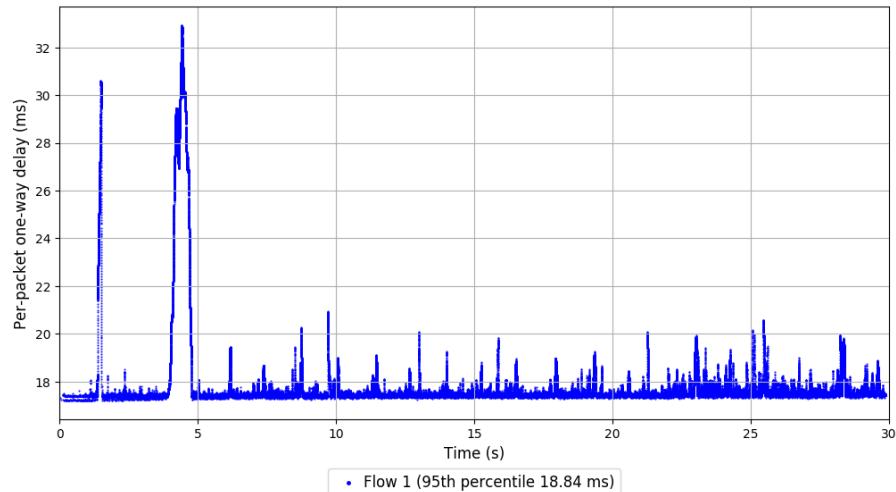
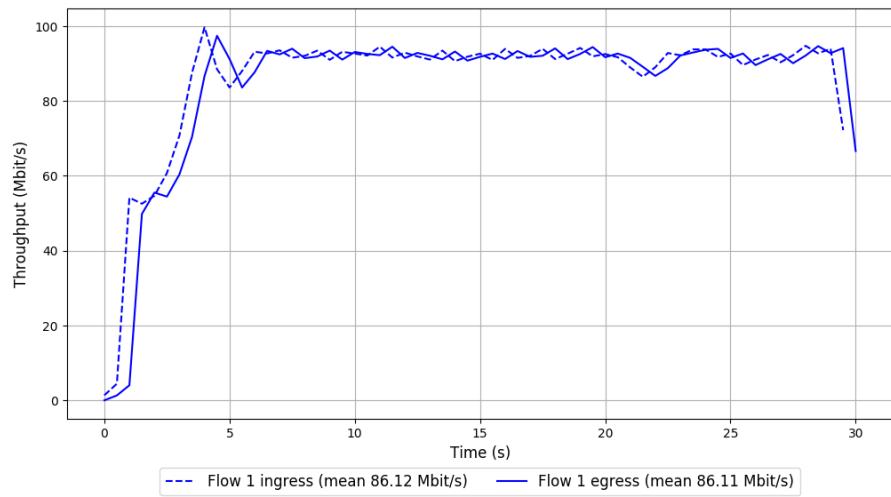


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-12-11 12:35:42
End at: 2019-12-11 12:36:12
Local clock offset: 3.228 ms
Remote clock offset: -1.965 ms

# Below is generated by plot.py at 2019-12-11 13:30:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.11 Mbit/s
95th percentile per-packet one-way delay: 18.842 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 86.11 Mbit/s
95th percentile per-packet one-way delay: 18.842 ms
Loss rate: 0.17%
```

Run 4: Report of PCC-Vivace — Data Link

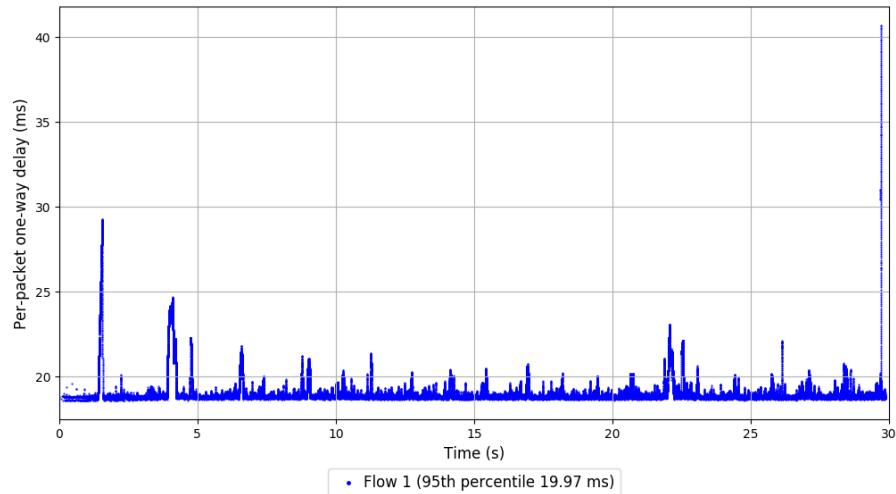
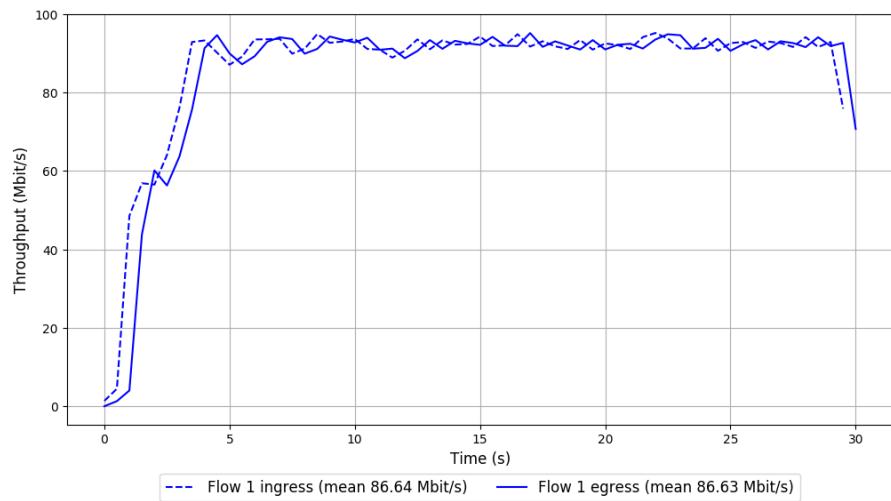


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-12-11 13:05:32
End at: 2019-12-11 13:06:02
Local clock offset: 5.811 ms
Remote clock offset: -2.177 ms

# Below is generated by plot.py at 2019-12-11 13:30:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.63 Mbit/s
95th percentile per-packet one-way delay: 19.966 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 86.63 Mbit/s
95th percentile per-packet one-way delay: 19.966 ms
Loss rate: 0.17%
```

Run 5: Report of PCC-Vivace — Data Link

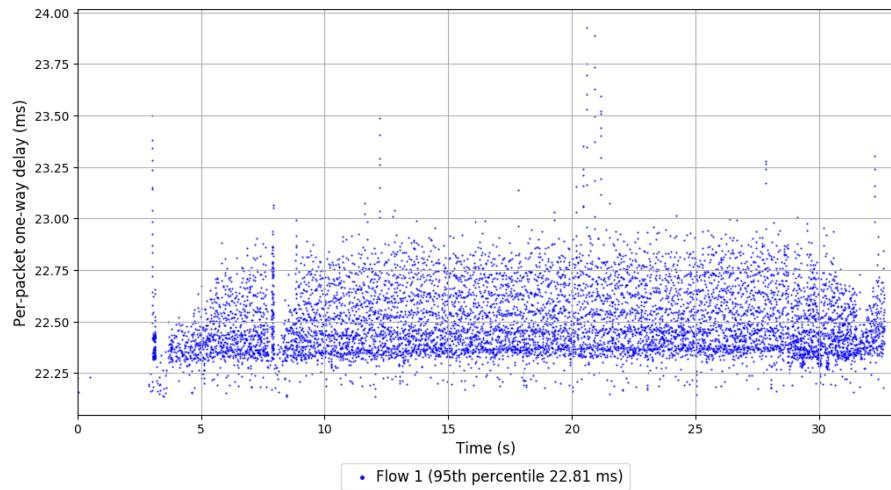
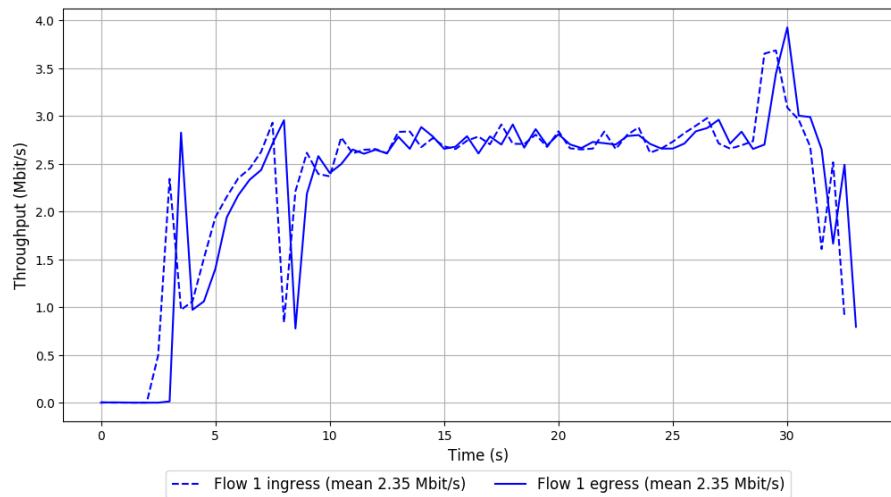


```
Run 1: Statistics of WebRTC media

Start at: 2019-12-11 11:14:49
End at: 2019-12-11 11:15:19
Local clock offset: 5.062 ms
Remote clock offset: -8.699 ms

# Below is generated by plot.py at 2019-12-11 13:30:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 22.808 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 22.808 ms
Loss rate: 0.13%
```

Run 1: Report of WebRTC media — Data Link

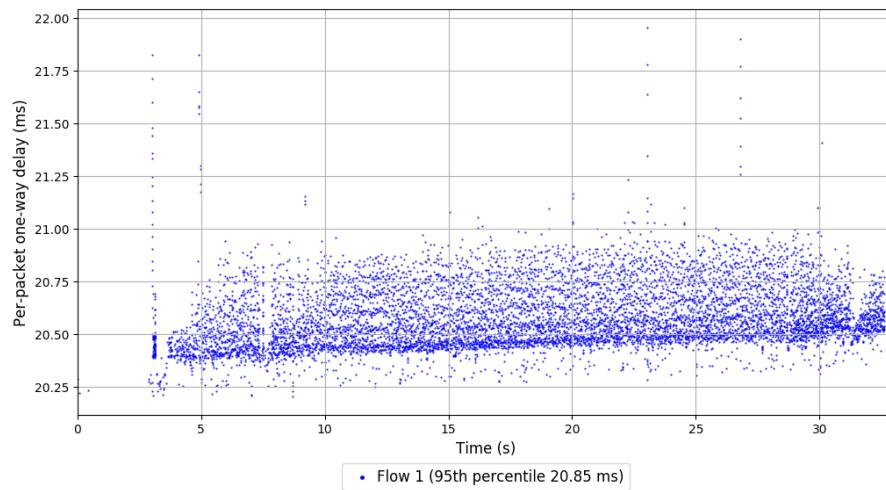
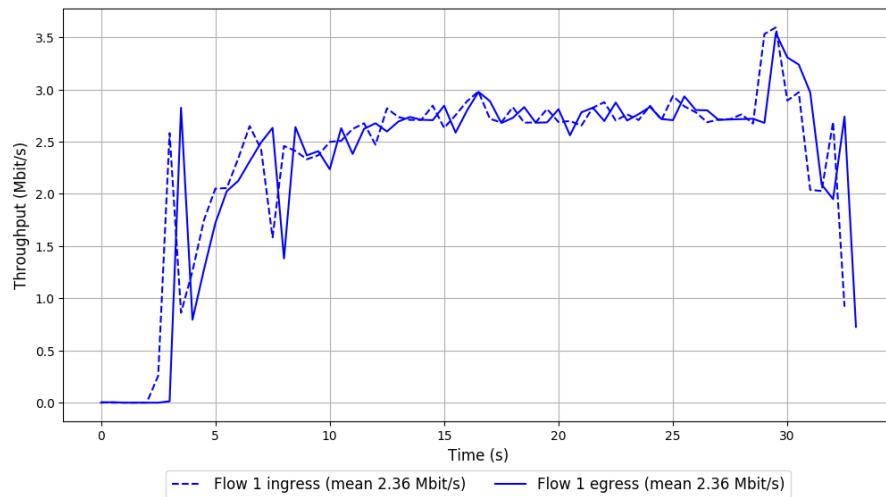


Run 2: Statistics of WebRTC media

```
Start at: 2019-12-11 11:43:16
End at: 2019-12-11 11:43:46
Local clock offset: 5.727 ms
Remote clock offset: -4.533 ms

# Below is generated by plot.py at 2019-12-11 13:30:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 20.851 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 20.851 ms
Loss rate: 0.17%
```

Run 2: Report of WebRTC media — Data Link

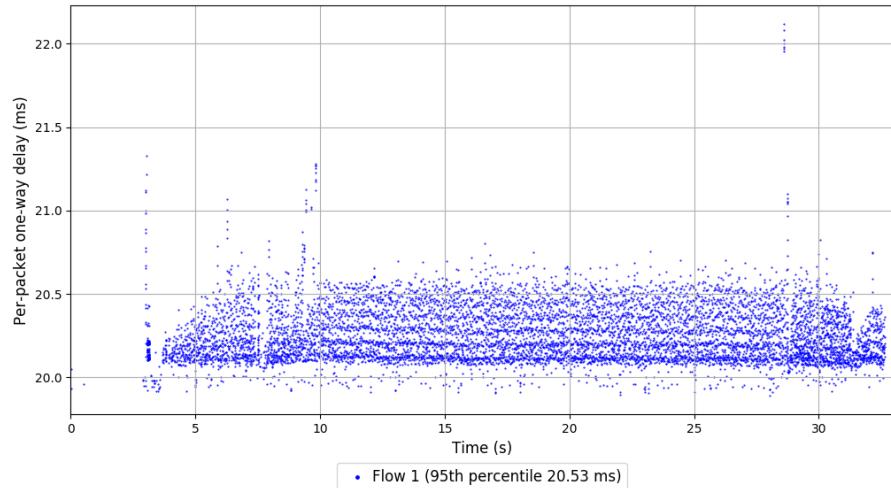
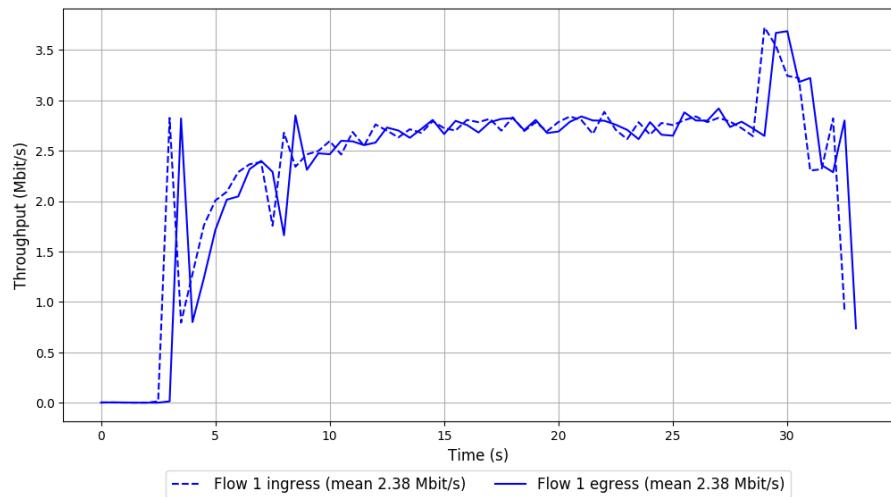


Run 3: Statistics of WebRTC media

```
Start at: 2019-12-11 12:11:33
End at: 2019-12-11 12:12:03
Local clock offset: 3.448 ms
Remote clock offset: -5.033 ms

# Below is generated by plot.py at 2019-12-11 13:30:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 20.534 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 20.534 ms
Loss rate: 0.18%
```

Run 3: Report of WebRTC media — Data Link

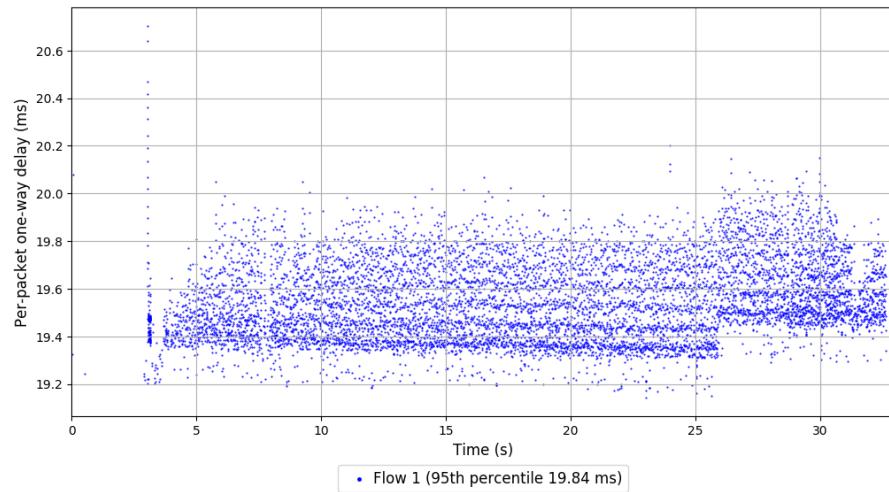
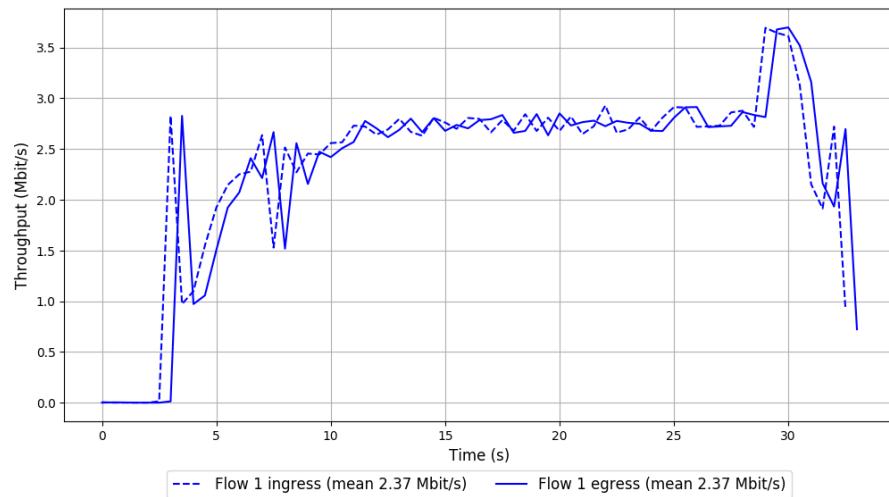


Run 4: Statistics of WebRTC media

```
Start at: 2019-12-11 12:40:40
End at: 2019-12-11 12:41:10
Local clock offset: 3.405 ms
Remote clock offset: -4.23 ms

# Below is generated by plot.py at 2019-12-11 13:30:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 19.841 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 19.841 ms
Loss rate: 0.19%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-12-11 13:10:20
End at: 2019-12-11 13:10:50
Local clock offset: 5.584 ms
Remote clock offset: -4.134 ms

# Below is generated by plot.py at 2019-12-11 13:30:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 21.205 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 21.205 ms
Loss rate: 0.13%
```

Run 5: Report of WebRTC media — Data Link

