

Pantheon Report

Generated at 2019-11-24 14:22:57 (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.

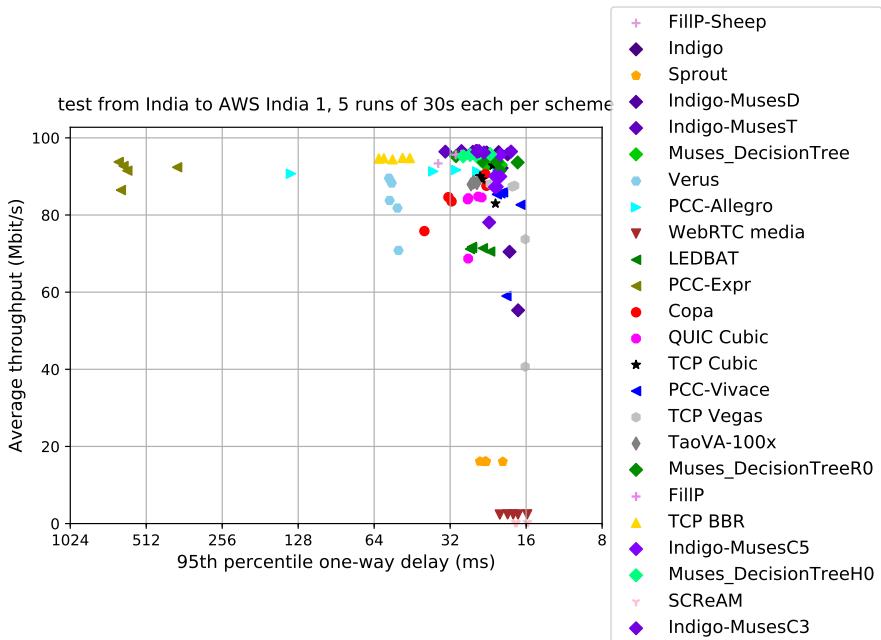
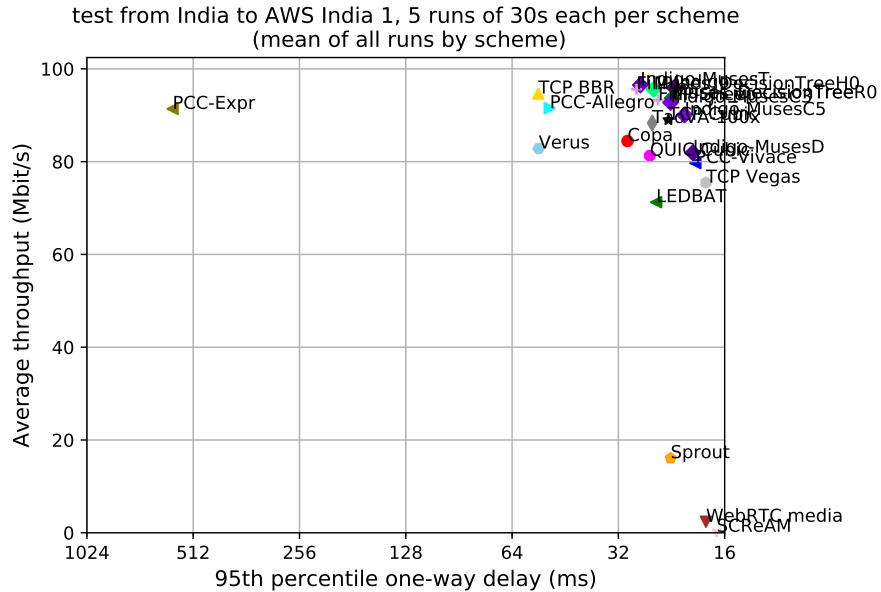
System info:

```
Linux 4.15.0-1051-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



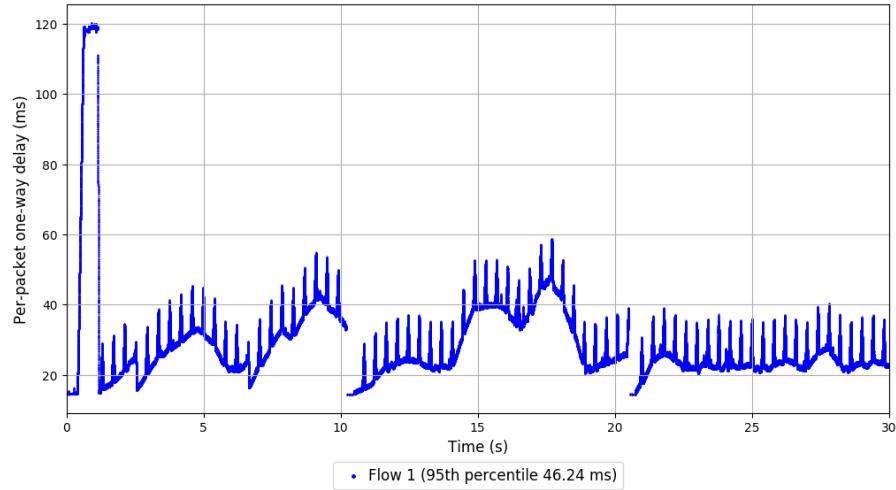
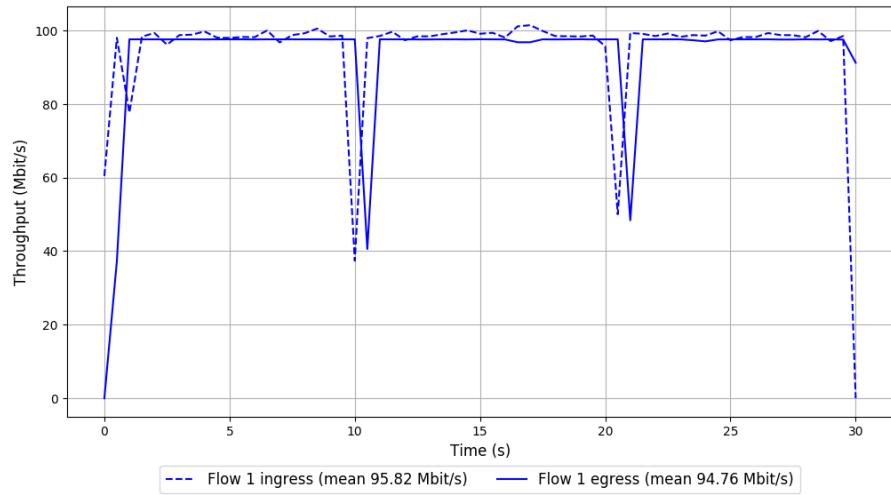
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	94.68	53.94	1.00
Copa	5	84.44	30.16	0.17
TCP Cubic	5	88.99	23.10	0.19
FillP	5	95.60	28.44	0.18
FillP-Sheep	5	93.26	24.70	0.18
Indigo	5	95.94	22.22	0.17
Indigo-MusesC3	5	92.74	22.77	0.30
Indigo-MusesC5	5	90.06	20.78	0.17
Indigo-MusesD	5	81.91	19.68	0.19
Indigo-MusesT	5	96.52	27.73	0.20
LEDBAT	5	71.26	25.02	0.19
Muses_DecisionTree	5	93.66	22.51	0.17
Muses_DecisionTreeH0	5	95.59	25.41	0.24
Muses_DecisionTreeR0	5	93.66	22.52	0.17
PCC-Allegro	5	91.53	50.05	0.35
PCC-Expr	5	91.36	585.70	20.18
QUIC Cubic	5	81.28	26.06	0.29
SCReAM	5	0.22	16.86	0.16
Sprout	5	16.08	22.76	0.15
TaoVA-100x	5	88.32	25.67	0.17
TCP Vegas	5	75.47	18.08	0.22
Verus	5	82.84	53.82	0.37
PCC-Vivace	5	79.70	19.37	0.20
WebRTC media	5	2.38	18.07	0.16

Run 1: Statistics of TCP BBR

```
Start at: 2019-11-24 11:41:33
End at: 2019-11-24 11:42:03
Local clock offset: -0.545 ms
Remote clock offset: -2.322 ms

# Below is generated by plot.py at 2019-11-24 14:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.76 Mbit/s
95th percentile per-packet one-way delay: 46.237 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 94.76 Mbit/s
95th percentile per-packet one-way delay: 46.237 ms
Loss rate: 1.26%
```

Run 1: Report of TCP BBR — Data Link

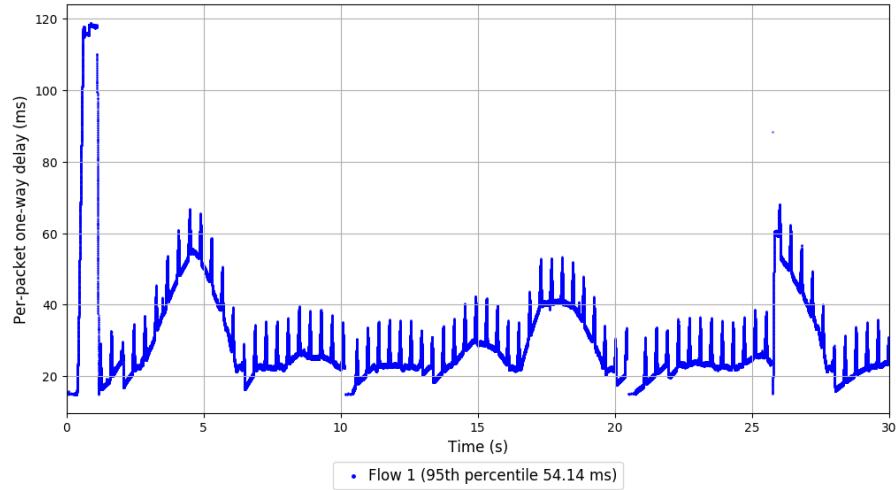
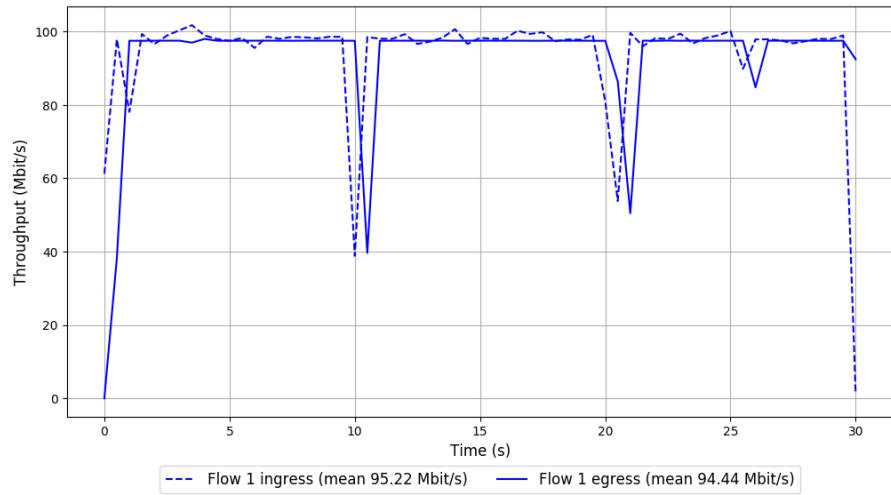


Run 2: Statistics of TCP BBR

```
Start at: 2019-11-24 12:10:56
End at: 2019-11-24 12:11:26
Local clock offset: 1.595 ms
Remote clock offset: -1.734 ms

# Below is generated by plot.py at 2019-11-24 14:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 54.140 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 54.140 ms
Loss rate: 0.97%
```

Run 2: Report of TCP BBR — Data Link

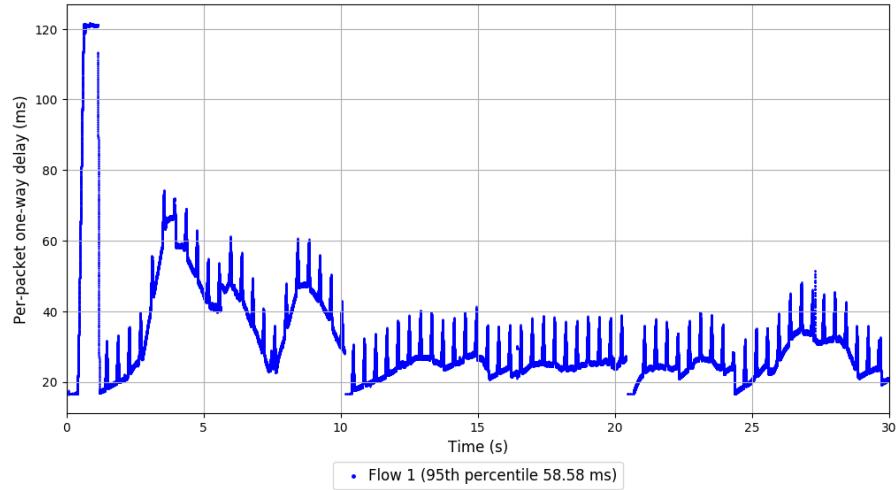
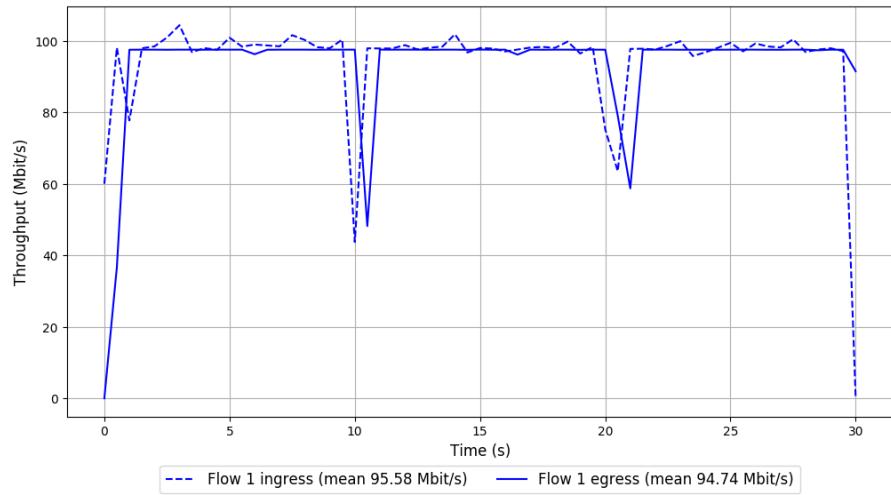


Run 3: Statistics of TCP BBR

```
Start at: 2019-11-24 12:40:33
End at: 2019-11-24 12:41:03
Local clock offset: 1.81 ms
Remote clock offset: -2.911 ms

# Below is generated by plot.py at 2019-11-24 14:08:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 58.582 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 58.582 ms
Loss rate: 1.04%
```

Run 3: Report of TCP BBR — Data Link

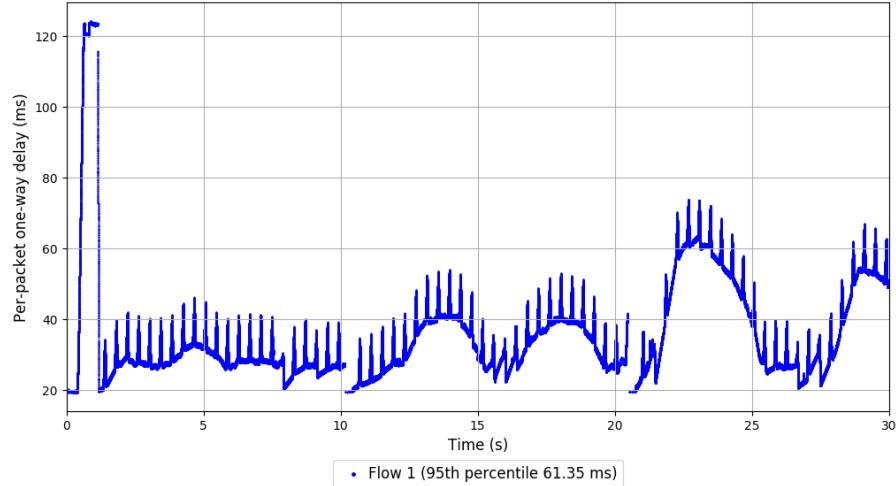
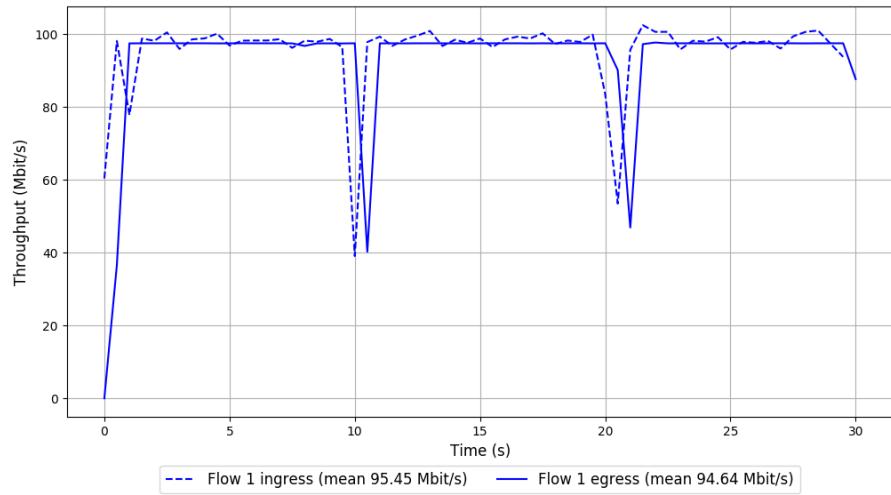


Run 4: Statistics of TCP BBR

```
Start at: 2019-11-24 13:09:12
End at: 2019-11-24 13:09:42
Local clock offset: 2.659 ms
Remote clock offset: -4.865 ms

# Below is generated by plot.py at 2019-11-24 14:08:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.64 Mbit/s
95th percentile per-packet one-way delay: 61.351 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 94.64 Mbit/s
95th percentile per-packet one-way delay: 61.351 ms
Loss rate: 1.01%
```

Run 4: Report of TCP BBR — Data Link

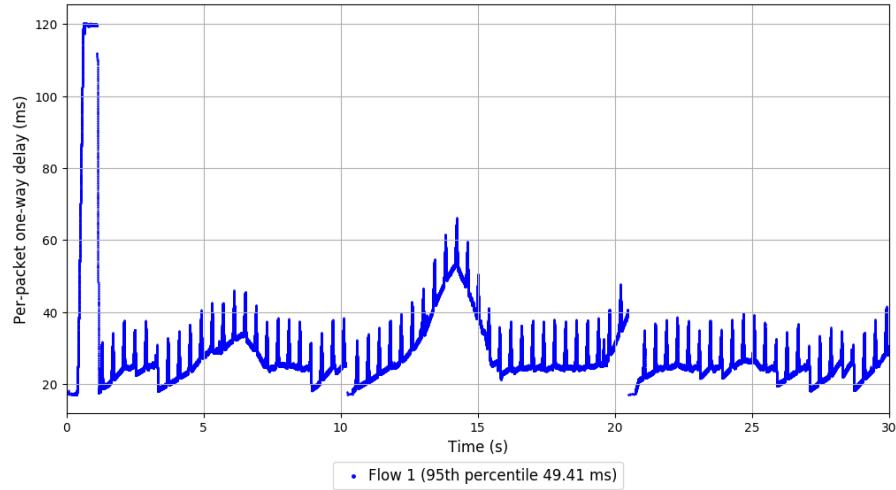
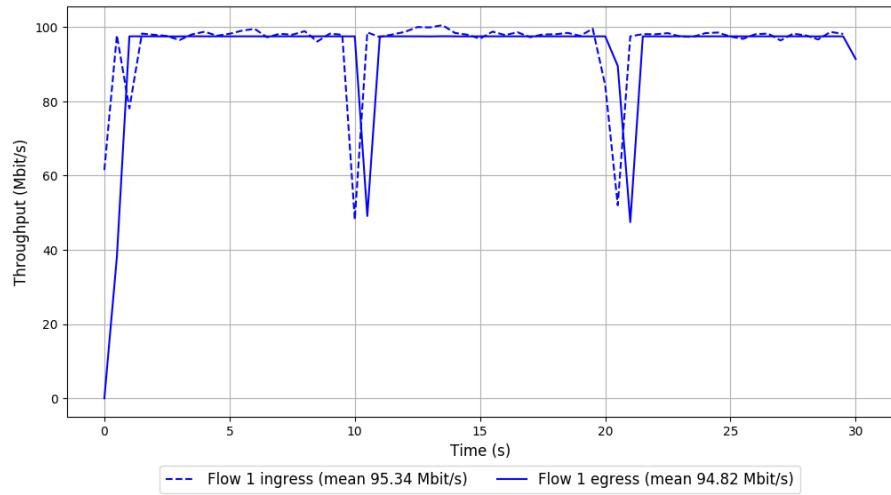


Run 5: Statistics of TCP BBR

```
Start at: 2019-11-24 13:38:45
End at: 2019-11-24 13:39:15
Local clock offset: 1.534 ms
Remote clock offset: -2.629 ms

# Below is generated by plot.py at 2019-11-24 14:08:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 49.409 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 49.409 ms
Loss rate: 0.70%
```

Run 5: Report of TCP BBR — Data Link

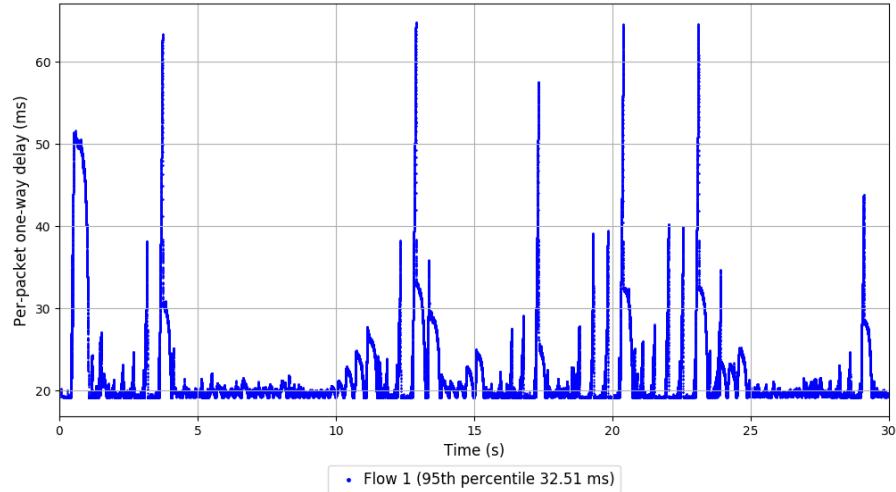
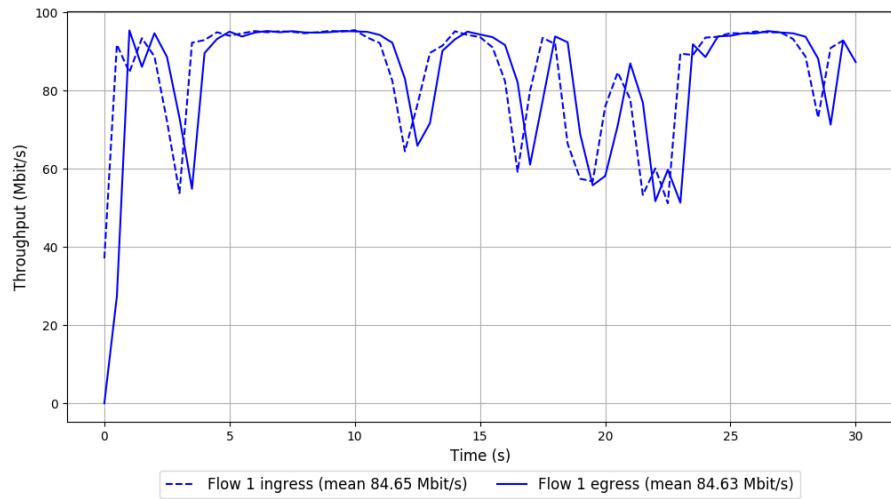


Run 1: Statistics of Copa

```
Start at: 2019-11-24 12:02:23
End at: 2019-11-24 12:02:53
Local clock offset: 2.468 ms
Remote clock offset: -5.288 ms

# Below is generated by plot.py at 2019-11-24 14:09:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.63 Mbit/s
95th percentile per-packet one-way delay: 32.507 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 84.63 Mbit/s
95th percentile per-packet one-way delay: 32.507 ms
Loss rate: 0.19%
```

Run 1: Report of Copa — Data Link

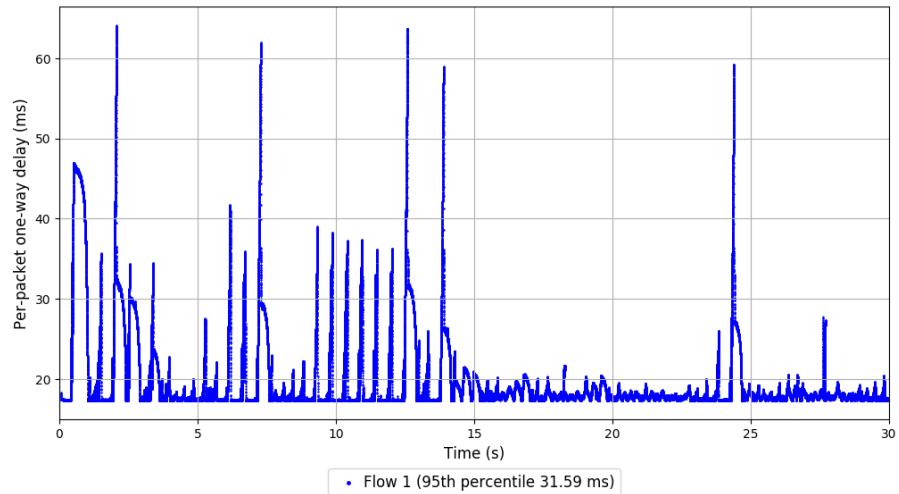
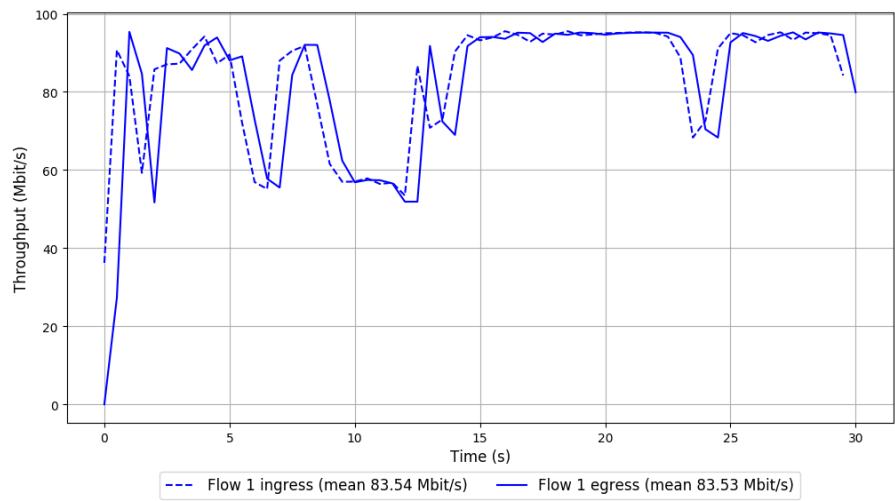


Run 2: Statistics of Copa

```
Start at: 2019-11-24 12:31:45
End at: 2019-11-24 12:32:15
Local clock offset: 2.157 ms
Remote clock offset: -3.172 ms

# Below is generated by plot.py at 2019-11-24 14:09:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.53 Mbit/s
95th percentile per-packet one-way delay: 31.593 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 83.53 Mbit/s
95th percentile per-packet one-way delay: 31.593 ms
Loss rate: 0.17%
```

Run 2: Report of Copa — Data Link

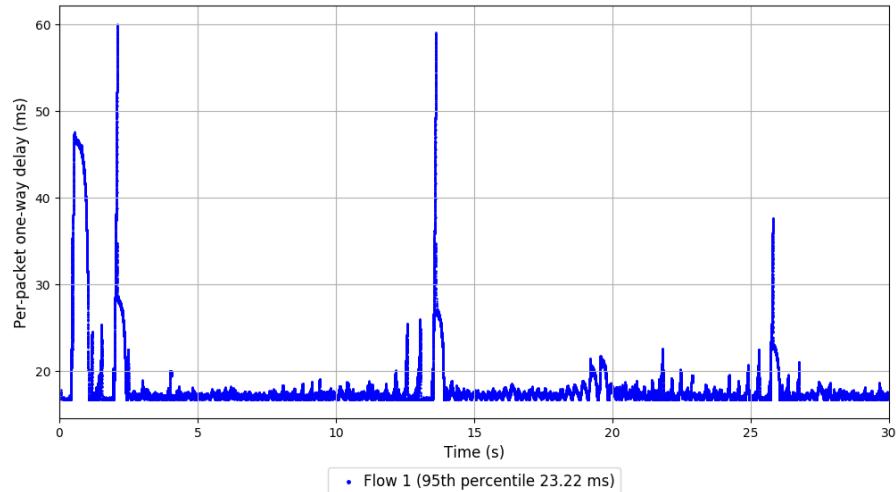
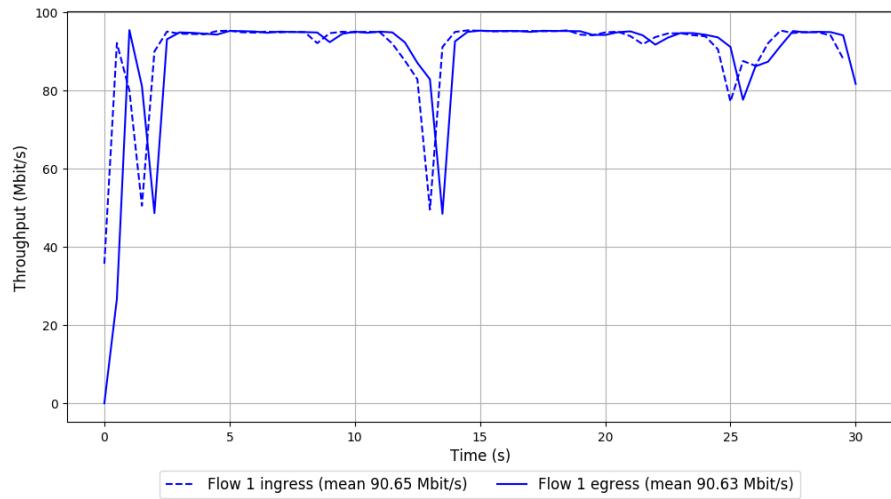


Run 3: Statistics of Copa

```
Start at: 2019-11-24 13:00:34
End at: 2019-11-24 13:01:04
Local clock offset: 2.026 ms
Remote clock offset: -2.61 ms

# Below is generated by plot.py at 2019-11-24 14:09:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.63 Mbit/s
95th percentile per-packet one-way delay: 23.221 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 90.63 Mbit/s
95th percentile per-packet one-way delay: 23.221 ms
Loss rate: 0.18%
```

Run 3: Report of Copa — Data Link

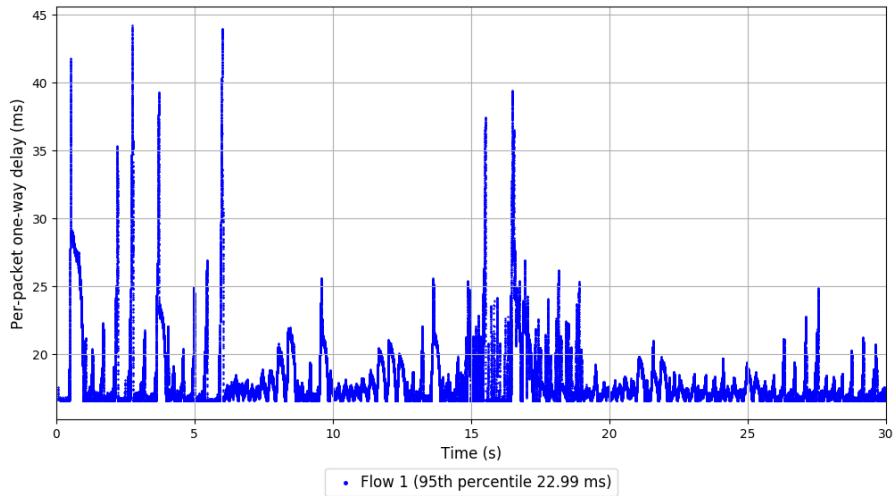
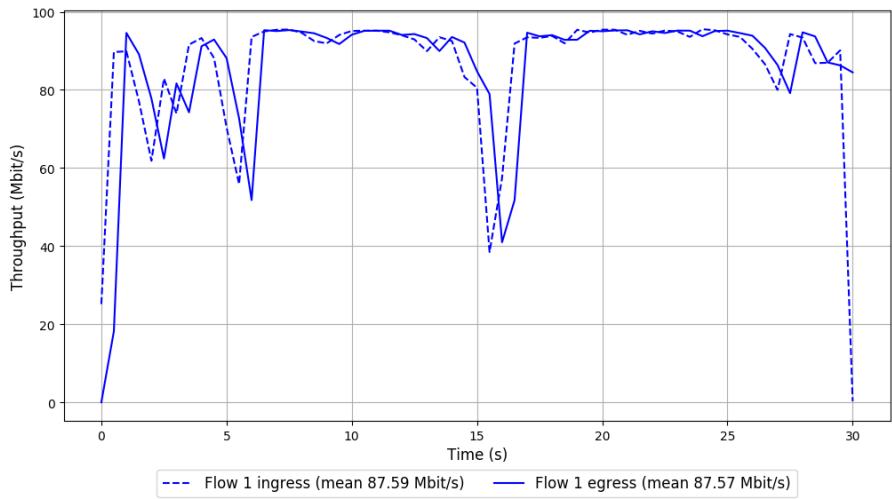


Run 4: Statistics of Copa

```
Start at: 2019-11-24 13:30:09
End at: 2019-11-24 13:30:39
Local clock offset: 2.878 ms
Remote clock offset: -0.726 ms

# Below is generated by plot.py at 2019-11-24 14:10:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 22.988 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 22.988 ms
Loss rate: 0.18%
```

Run 4: Report of Copa — Data Link

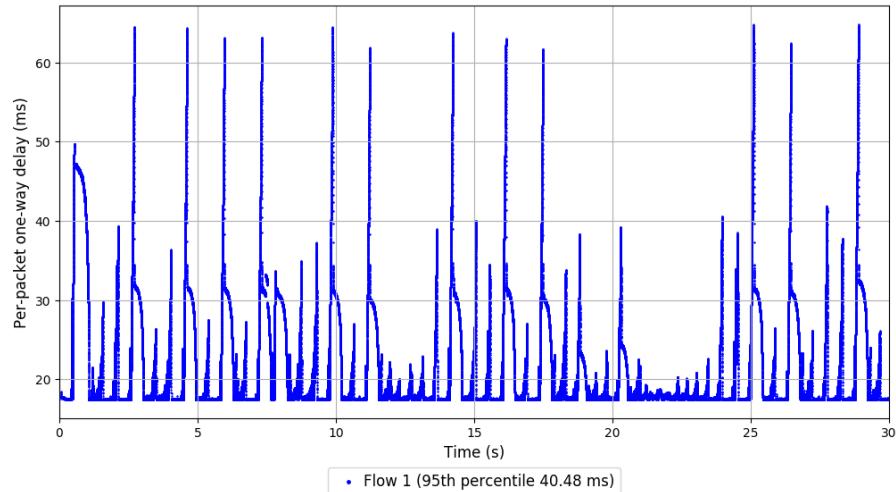
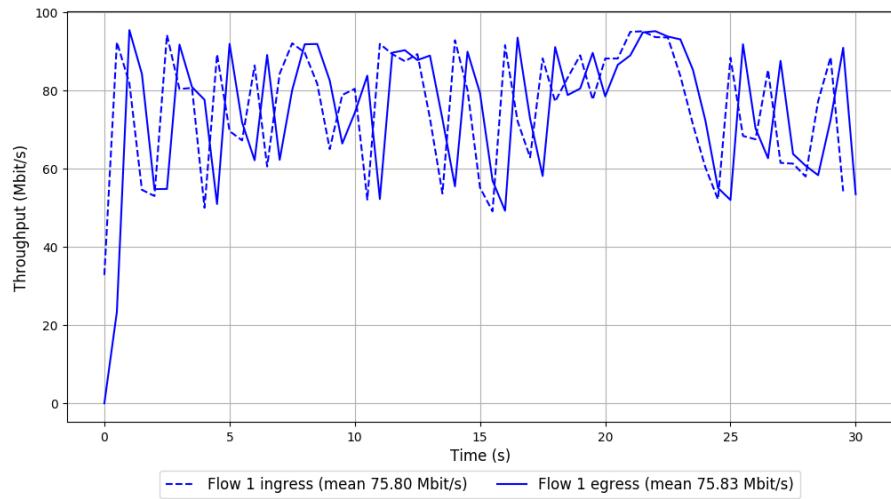


Run 5: Statistics of Copa

```
Start at: 2019-11-24 13:58:39
End at: 2019-11-24 13:59:09
Local clock offset: 3.158 ms
Remote clock offset: -2.937 ms

# Below is generated by plot.py at 2019-11-24 14:10:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.83 Mbit/s
95th percentile per-packet one-way delay: 40.482 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 75.83 Mbit/s
95th percentile per-packet one-way delay: 40.482 ms
Loss rate: 0.12%
```

Run 5: Report of Copa — Data Link

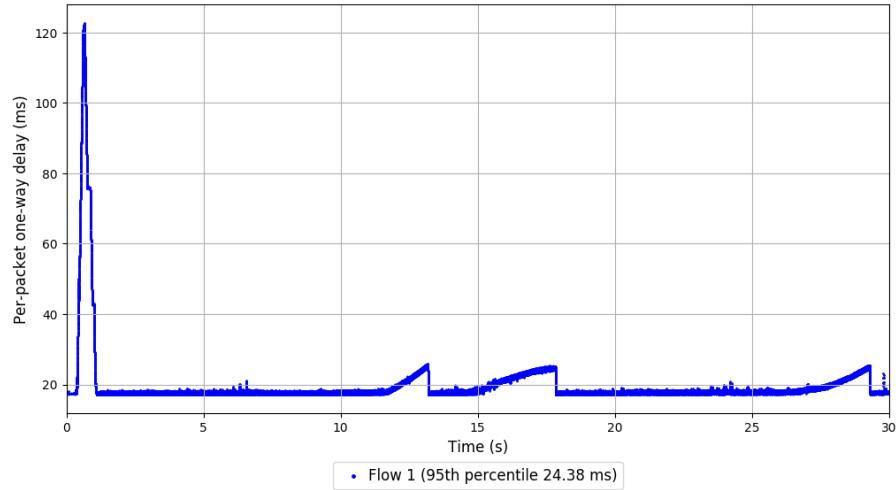
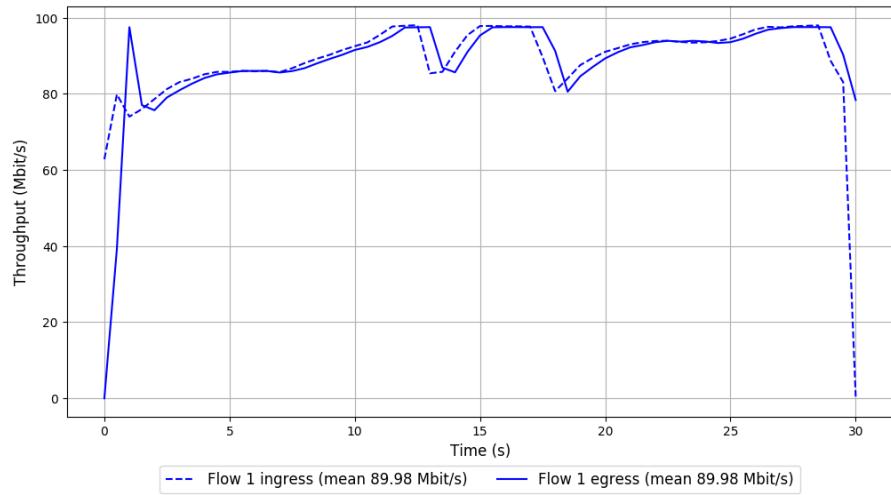


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-11-24 12:06:01
End at: 2019-11-24 12:06:31
Local clock offset: 2.826 ms
Remote clock offset: -2.879 ms

# Below is generated by plot.py at 2019-11-24 14:10:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.98 Mbit/s
95th percentile per-packet one-way delay: 24.375 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 89.98 Mbit/s
95th percentile per-packet one-way delay: 24.375 ms
Loss rate: 0.16%
```

Run 1: Report of TCP Cubic — Data Link

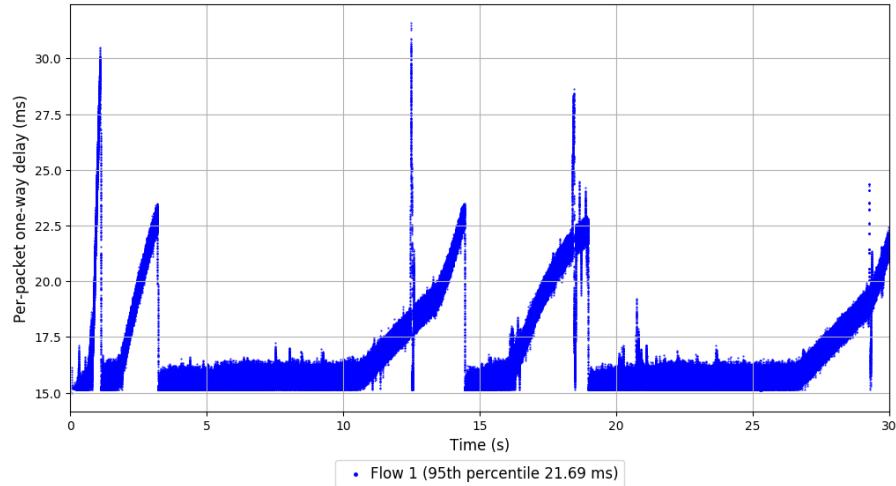
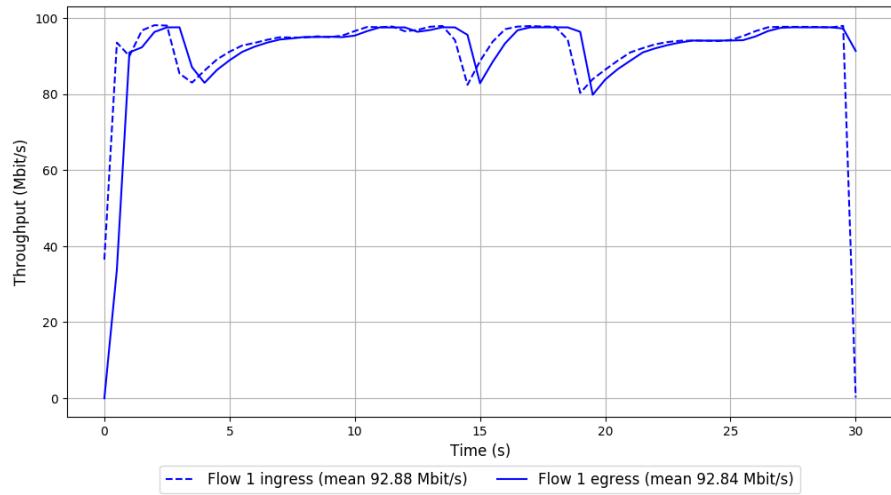


Run 2: Statistics of TCP Cubic

```
Start at: 2019-11-24 12:35:23
End at: 2019-11-24 12:35:53
Local clock offset: 3.233 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-11-24 14:10:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.84 Mbit/s
95th percentile per-packet one-way delay: 21.693 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 92.84 Mbit/s
95th percentile per-packet one-way delay: 21.693 ms
Loss rate: 0.19%
```

Run 2: Report of TCP Cubic — Data Link

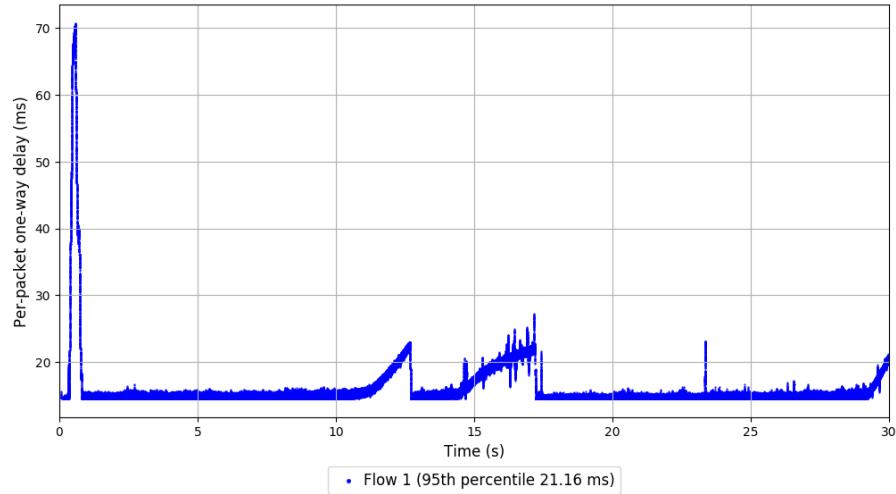
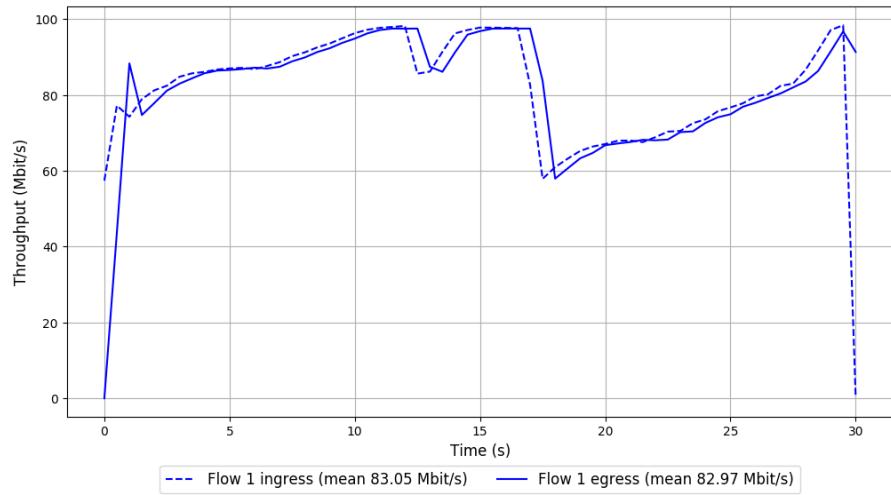


Run 3: Statistics of TCP Cubic

```
Start at: 2019-11-24 13:04:12
End at: 2019-11-24 13:04:43
Local clock offset: 2.179 ms
Remote clock offset: -0.428 ms

# Below is generated by plot.py at 2019-11-24 14:10:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.97 Mbit/s
95th percentile per-packet one-way delay: 21.159 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 82.97 Mbit/s
95th percentile per-packet one-way delay: 21.159 ms
Loss rate: 0.25%
```

Run 3: Report of TCP Cubic — Data Link

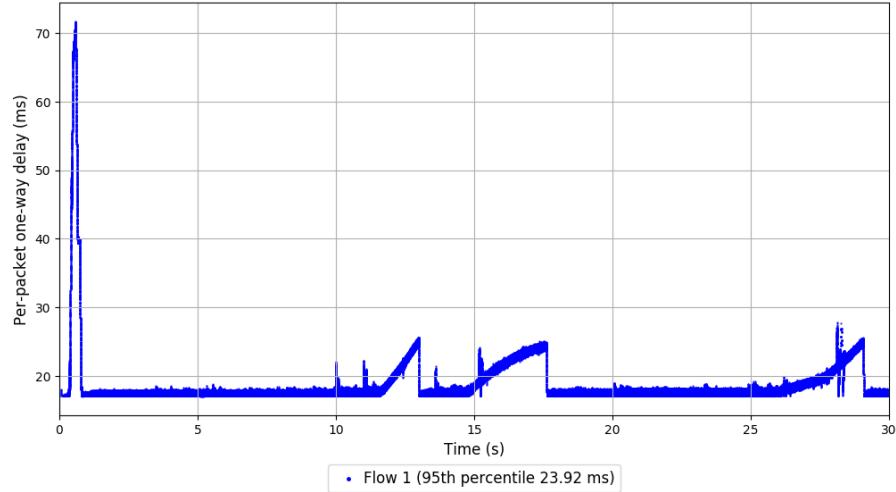
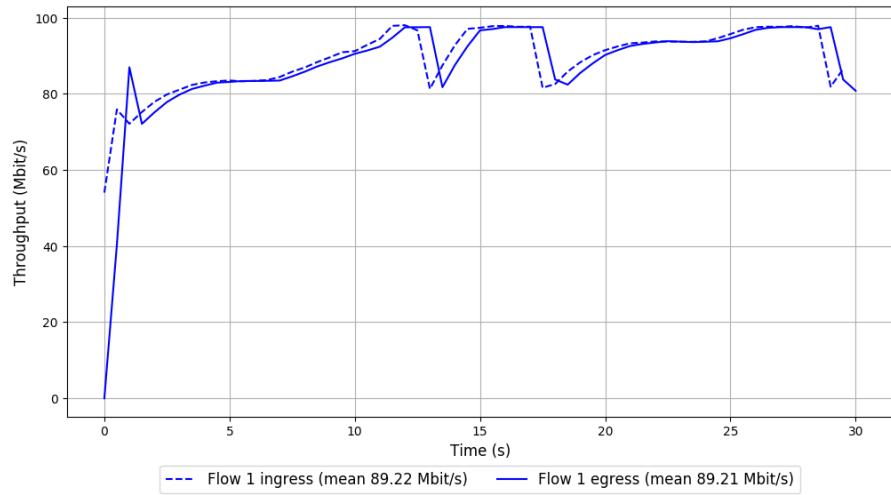


Run 4: Statistics of TCP Cubic

```
Start at: 2019-11-24 13:33:46
End at: 2019-11-24 13:34:16
Local clock offset: 1.546 ms
Remote clock offset: -2.486 ms

# Below is generated by plot.py at 2019-11-24 14:10:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.21 Mbit/s
95th percentile per-packet one-way delay: 23.920 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 89.21 Mbit/s
95th percentile per-packet one-way delay: 23.920 ms
Loss rate: 0.17%
```

Run 4: Report of TCP Cubic — Data Link

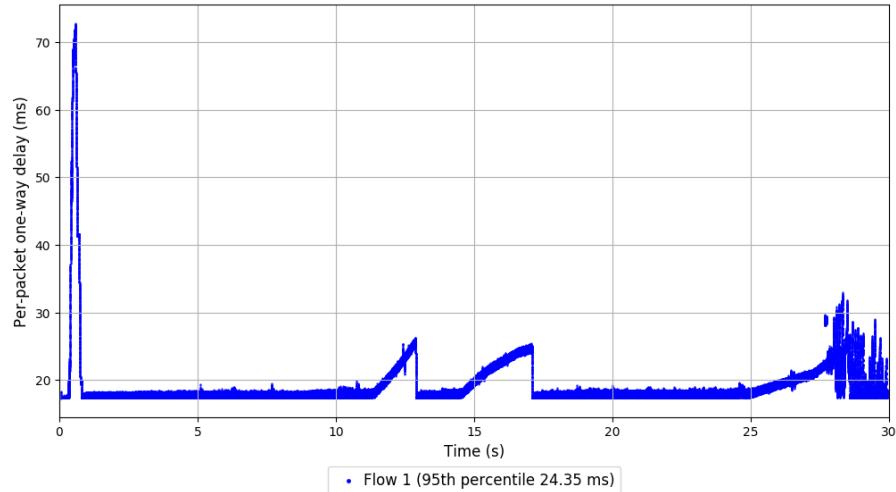
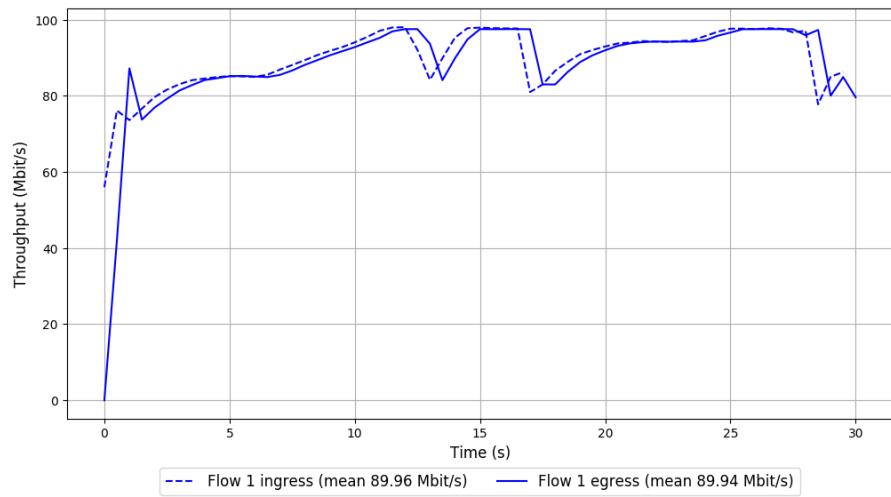


Run 5: Statistics of TCP Cubic

```
Start at: 2019-11-24 14:02:08
End at: 2019-11-24 14:02:38
Local clock offset: 1.051 ms
Remote clock offset: -5.046 ms

# Below is generated by plot.py at 2019-11-24 14:10:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.94 Mbit/s
95th percentile per-packet one-way delay: 24.351 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 89.94 Mbit/s
95th percentile per-packet one-way delay: 24.351 ms
Loss rate: 0.18%
```

Run 5: Report of TCP Cubic — Data Link

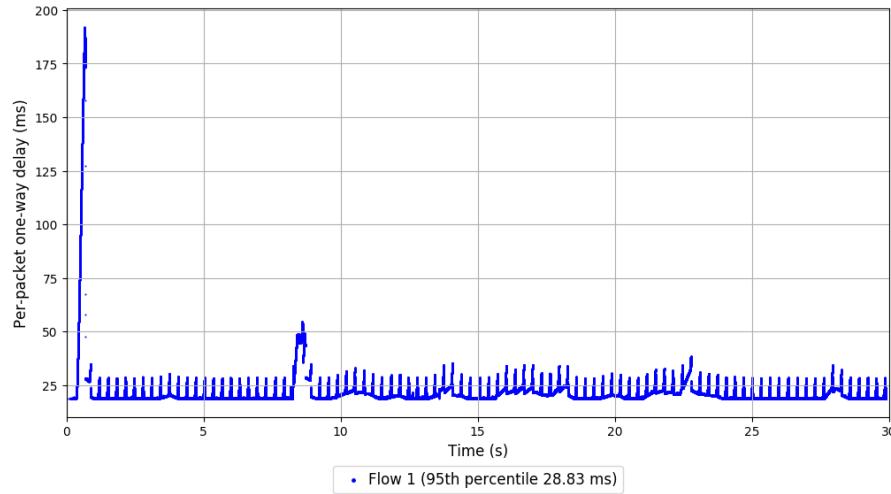
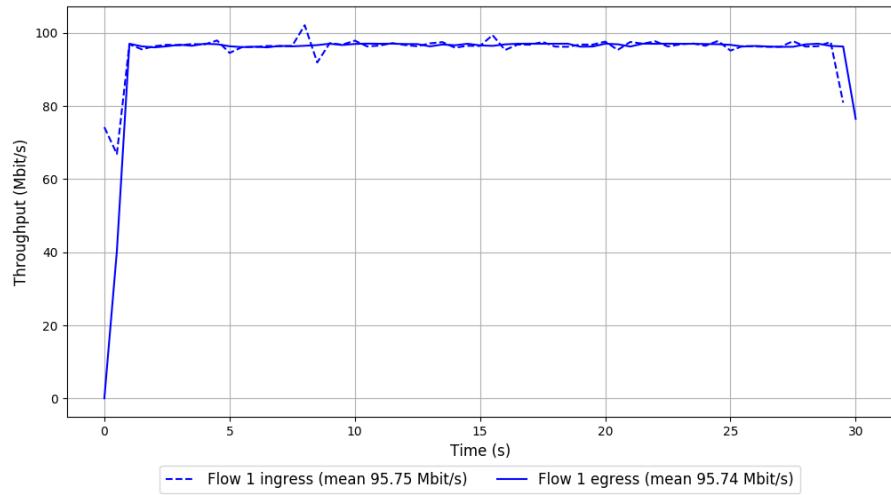


```
Run 1: Statistics of FillP
```

```
Start at: 2019-11-24 11:47:45
End at: 2019-11-24 11:48:15
Local clock offset: 2.251 ms
Remote clock offset: -4.522 ms

# Below is generated by plot.py at 2019-11-24 14:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 28.830 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 28.830 ms
Loss rate: 0.17%
```

Run 1: Report of FillP — Data Link

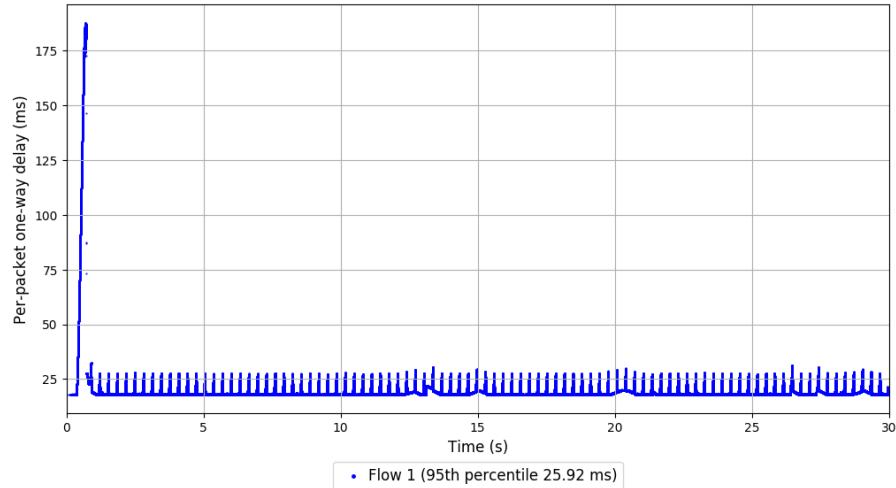
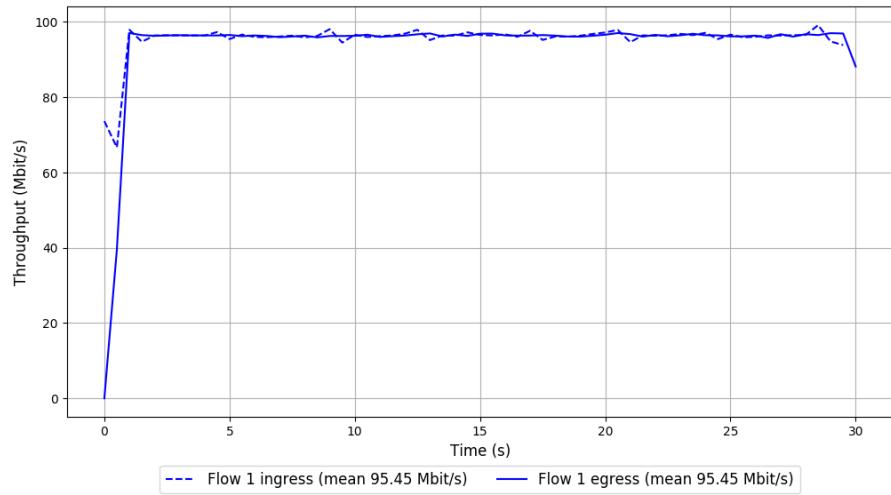


Run 2: Statistics of FillP

```
Start at: 2019-11-24 12:17:00
End at: 2019-11-24 12:17:30
Local clock offset: 3.52 ms
Remote clock offset: -2.762 ms

# Below is generated by plot.py at 2019-11-24 14:10:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 25.919 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 25.919 ms
Loss rate: 0.16%
```

Run 2: Report of FillP — Data Link

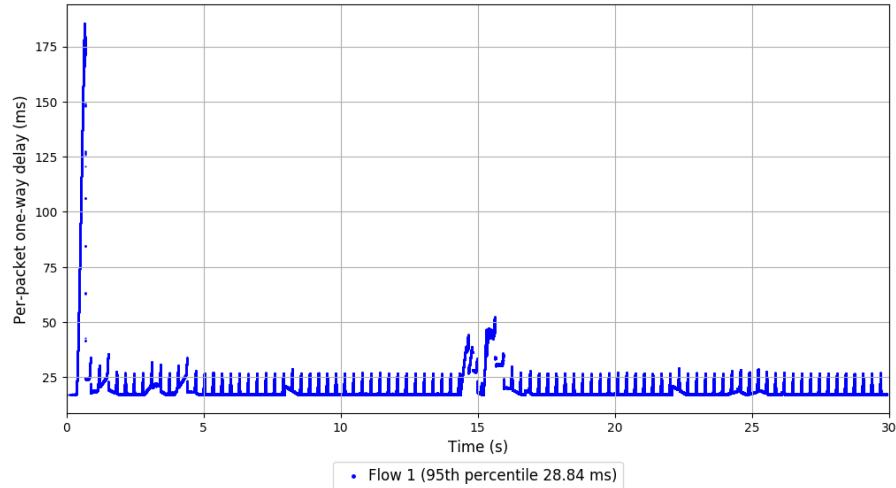
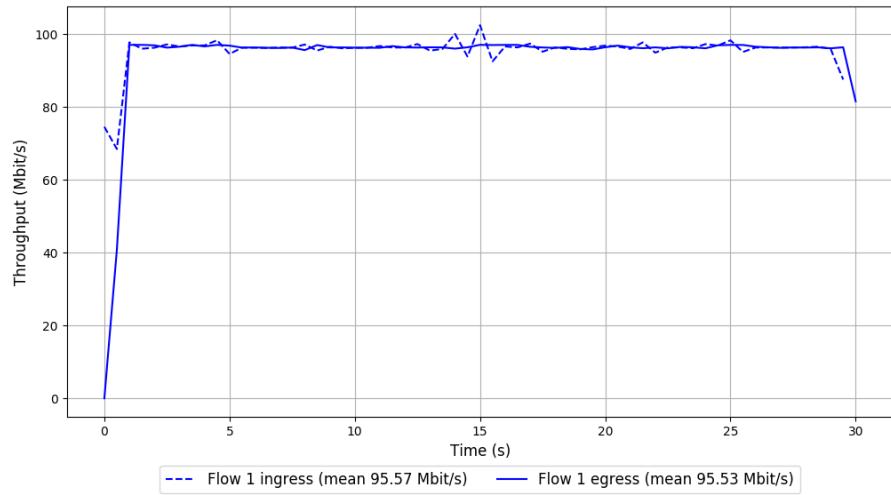


Run 3: Statistics of FillP

```
Start at: 2019-11-24 12:46:28
End at: 2019-11-24 12:46:58
Local clock offset: 1.923 ms
Remote clock offset: -3.476 ms

# Below is generated by plot.py at 2019-11-24 14:10:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 28.841 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 28.841 ms
Loss rate: 0.20%
```

Run 3: Report of FillP — Data Link

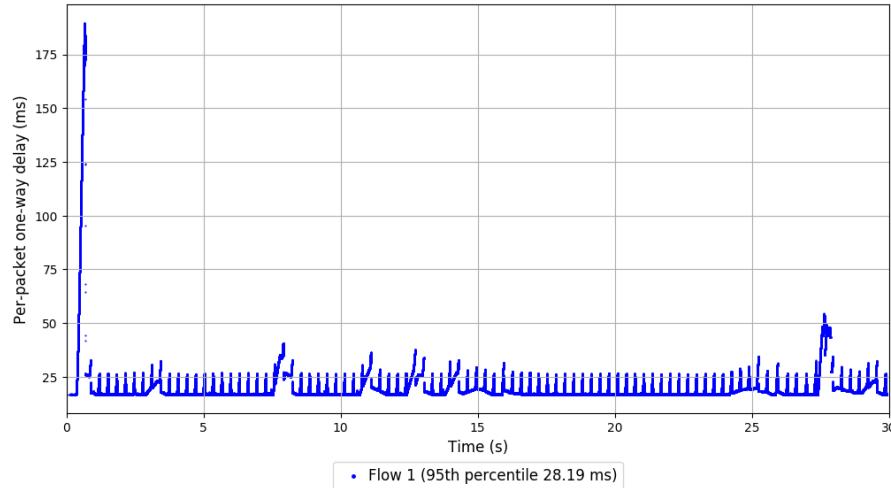
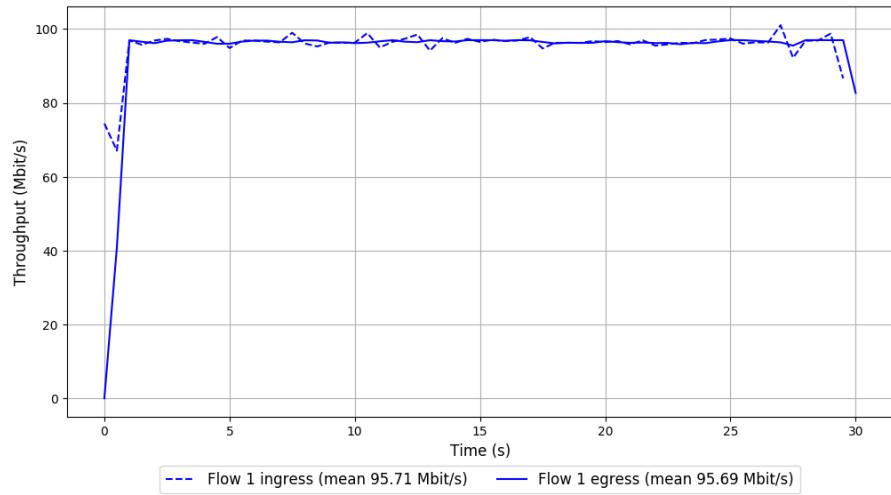


Run 4: Statistics of FillP

```
Start at: 2019-11-24 13:15:34
End at: 2019-11-24 13:16:04
Local clock offset: 3.638 ms
Remote clock offset: -0.674 ms

# Below is generated by plot.py at 2019-11-24 14:10:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 28.190 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 28.190 ms
Loss rate: 0.18%
```

Run 4: Report of FillP — Data Link

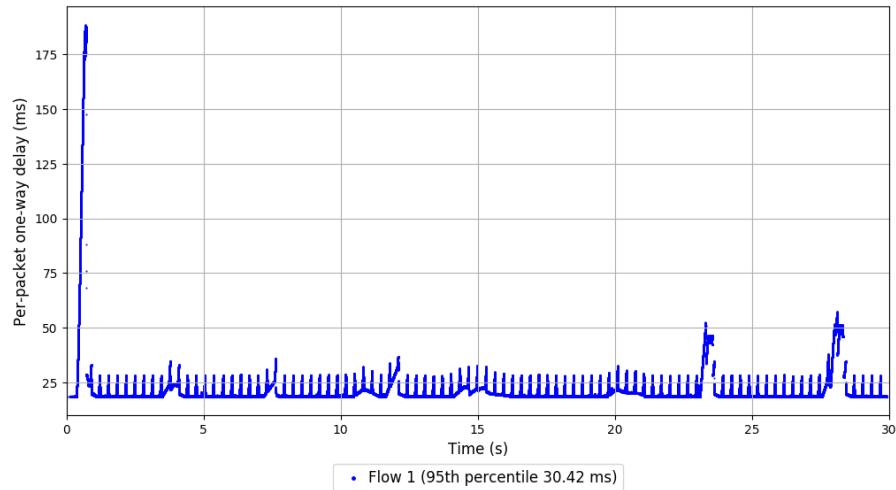
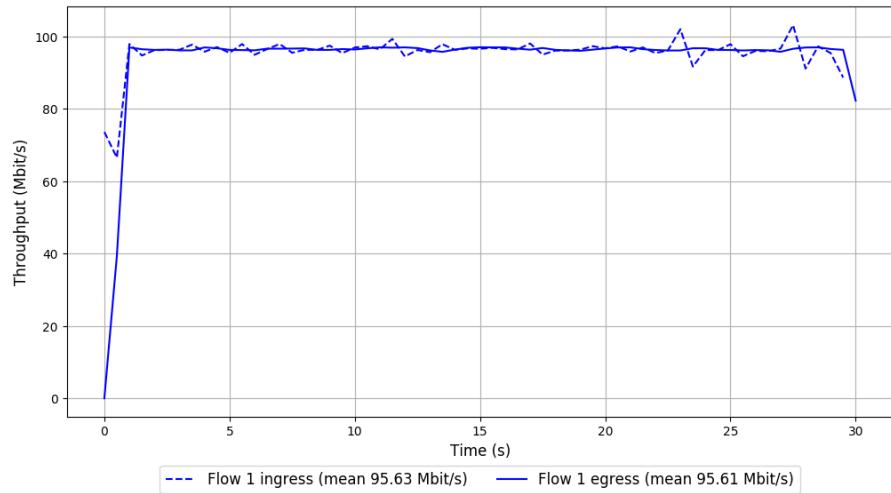


Run 5: Statistics of FillP

```
Start at: 2019-11-24 13:44:47
End at: 2019-11-24 13:45:17
Local clock offset: 1.913 ms
Remote clock offset: -4.317 ms

# Below is generated by plot.py at 2019-11-24 14:11:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 30.421 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 30.421 ms
Loss rate: 0.18%
```

Run 5: Report of FillP — Data Link

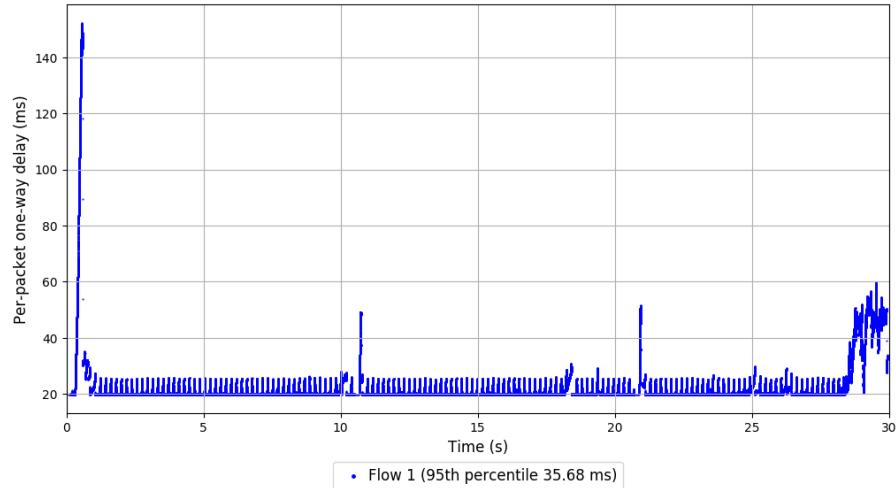
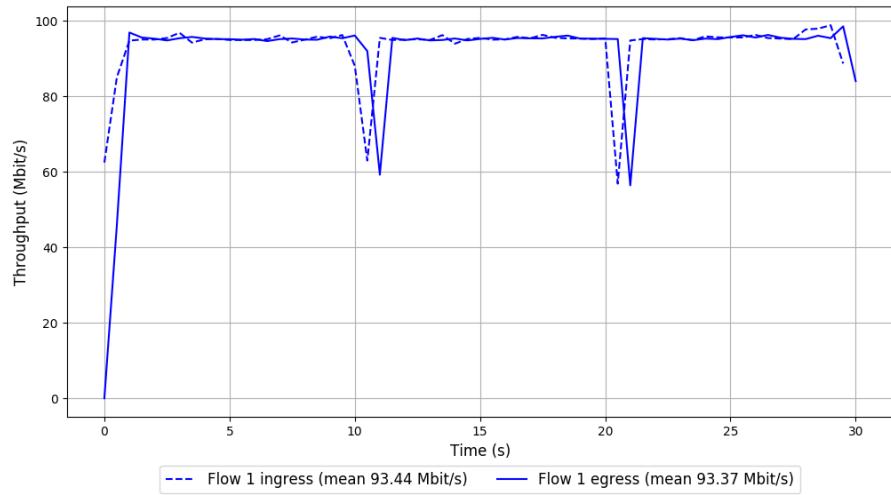


Run 1: Statistics of FillP-Sheep

```
Start at: 2019-11-24 12:07:17
End at: 2019-11-24 12:07:47
Local clock offset: 3.103 ms
Remote clock offset: -5.209 ms

# Below is generated by plot.py at 2019-11-24 14:11:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.37 Mbit/s
95th percentile per-packet one-way delay: 35.679 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 93.37 Mbit/s
95th percentile per-packet one-way delay: 35.679 ms
Loss rate: 0.23%
```

Run 1: Report of FillP-Sheep — Data Link

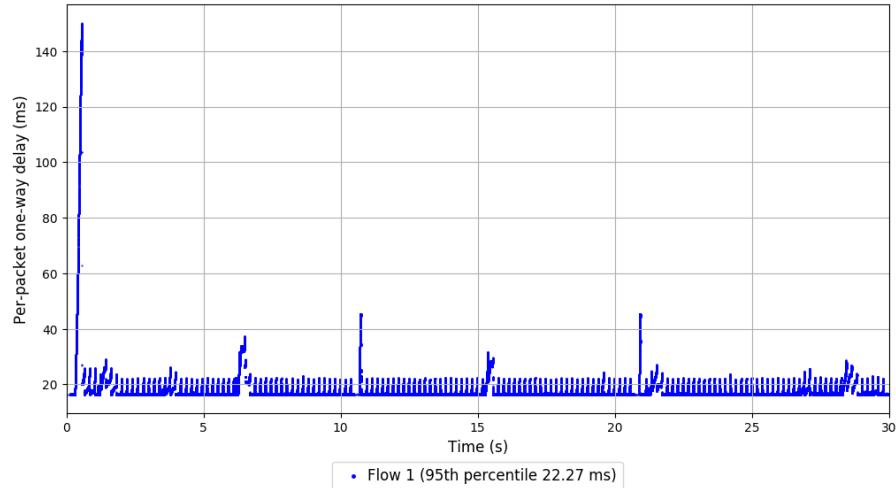
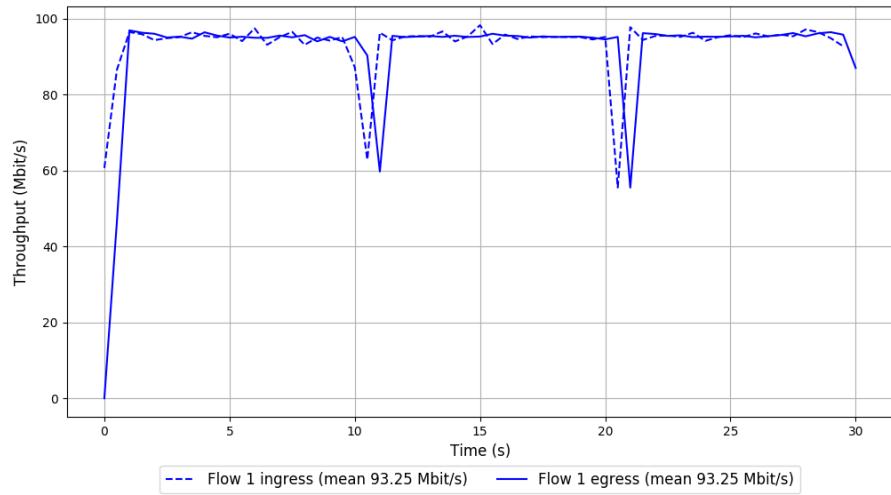


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-11-24 12:36:39
End at: 2019-11-24 12:37:09
Local clock offset: 1.229 ms
Remote clock offset: -3.319 ms

# Below is generated by plot.py at 2019-11-24 14:11:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.25 Mbit/s
95th percentile per-packet one-way delay: 22.268 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 93.25 Mbit/s
95th percentile per-packet one-way delay: 22.268 ms
Loss rate: 0.16%
```

Run 2: Report of FillP-Sheep — Data Link

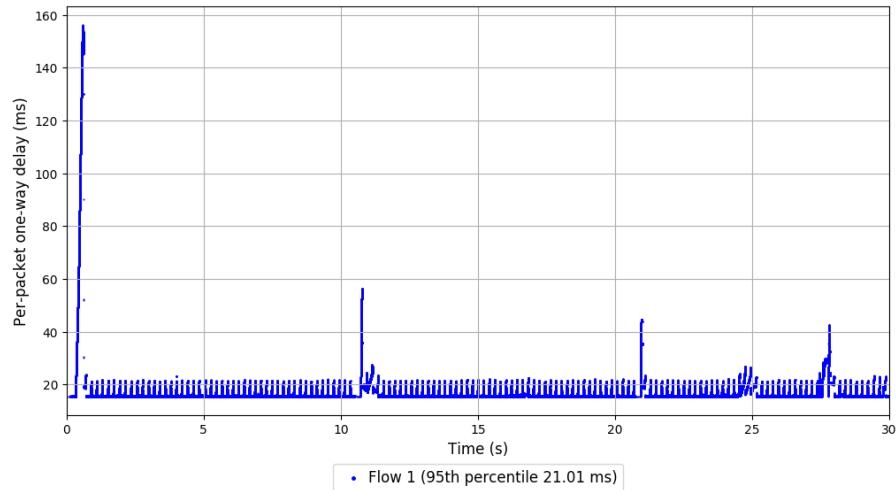
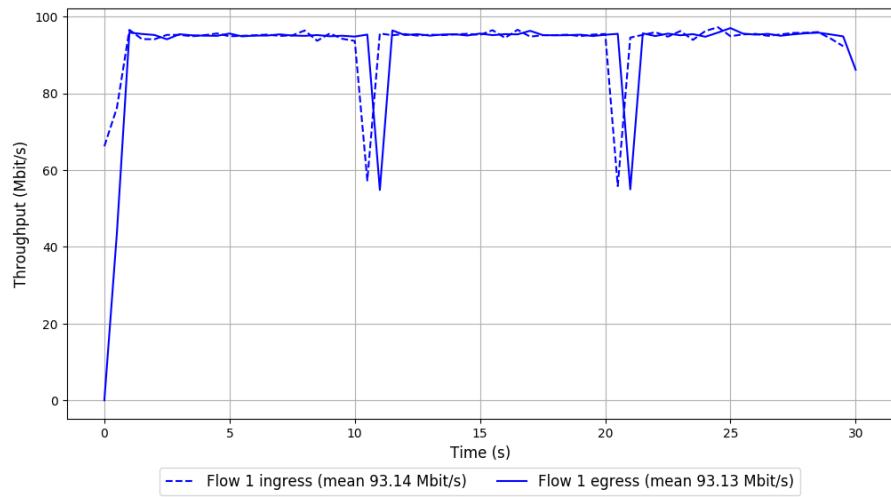


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-11-24 13:05:28
End at: 2019-11-24 13:05:58
Local clock offset: 0.519 ms
Remote clock offset: -3.082 ms

# Below is generated by plot.py at 2019-11-24 14:11:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.13 Mbit/s
95th percentile per-packet one-way delay: 21.008 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 93.13 Mbit/s
95th percentile per-packet one-way delay: 21.008 ms
Loss rate: 0.17%
```

Run 3: Report of FillP-Sheep — Data Link

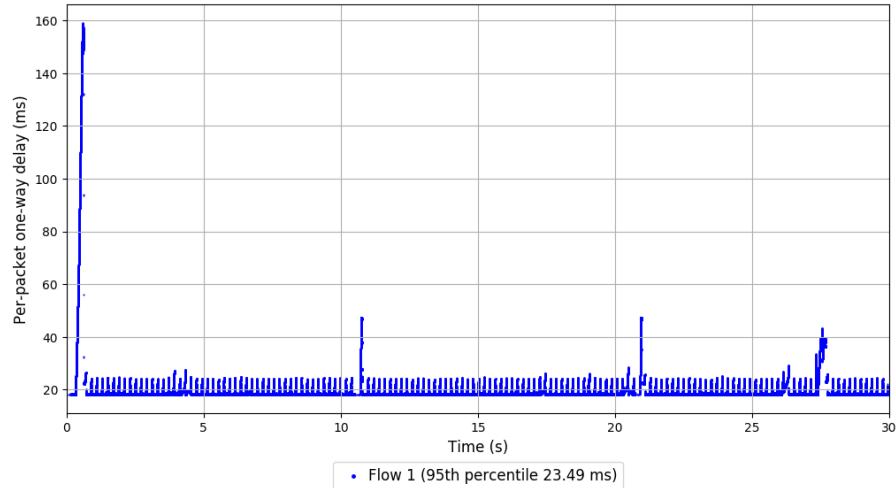
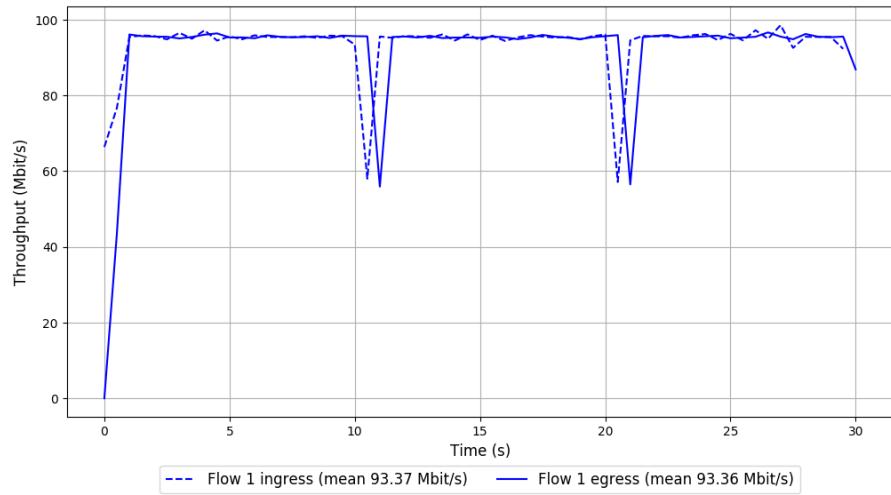


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-11-24 13:34:59
End at: 2019-11-24 13:35:29
Local clock offset: 2.913 ms
Remote clock offset: -2.321 ms

# Below is generated by plot.py at 2019-11-24 14:11:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 23.488 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 23.488 ms
Loss rate: 0.16%
```

Run 4: Report of FillP-Sheep — Data Link

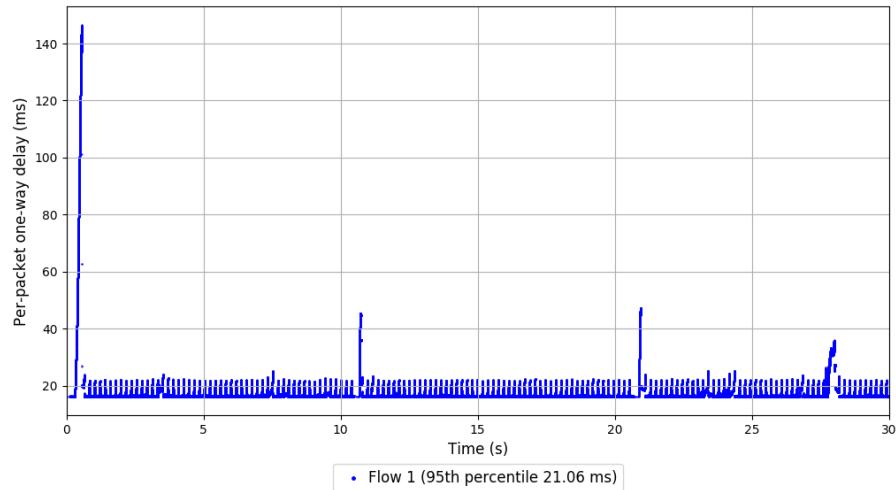
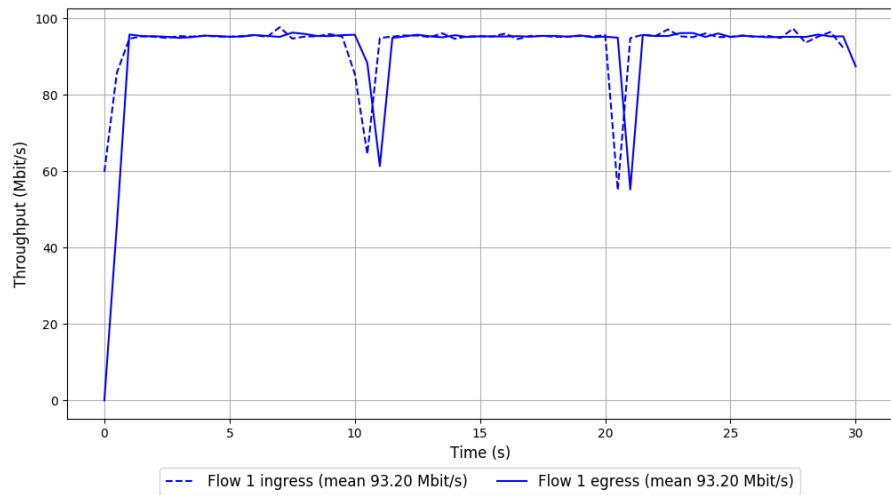


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-11-24 14:03:18
End at: 2019-11-24 14:03:48
Local clock offset: 2.669 ms
Remote clock offset: -2.31 ms

# Below is generated by plot.py at 2019-11-24 14:11:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 21.056 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 21.056 ms
Loss rate: 0.16%
```

Run 5: Report of FillP-Sheep — Data Link

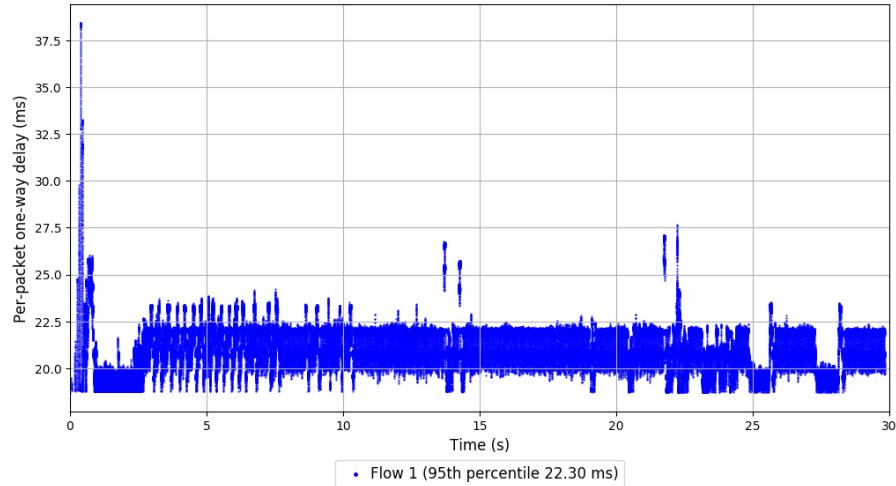
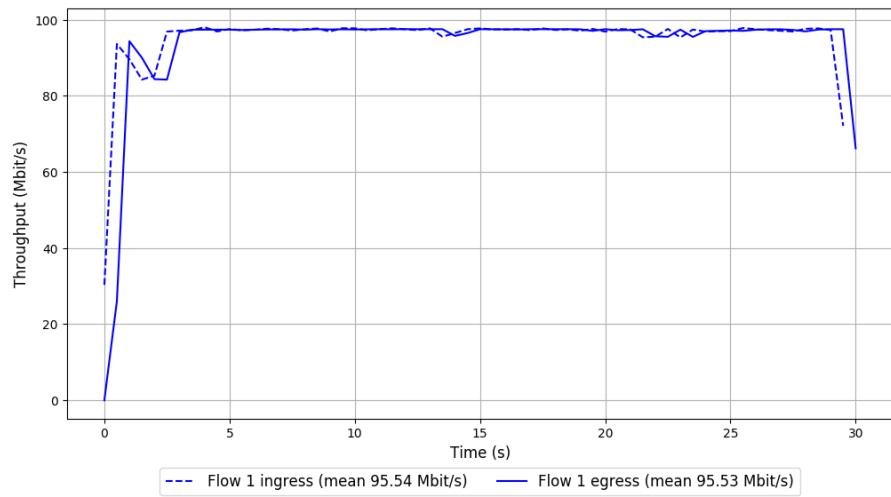


Run 1: Statistics of Indigo

```
Start at: 2019-11-24 11:46:29
End at: 2019-11-24 11:46:59
Local clock offset: 2.037 ms
Remote clock offset: -4.607 ms

# Below is generated by plot.py at 2019-11-24 14:11:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 22.304 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 22.304 ms
Loss rate: 0.17%
```

Run 1: Report of Indigo — Data Link

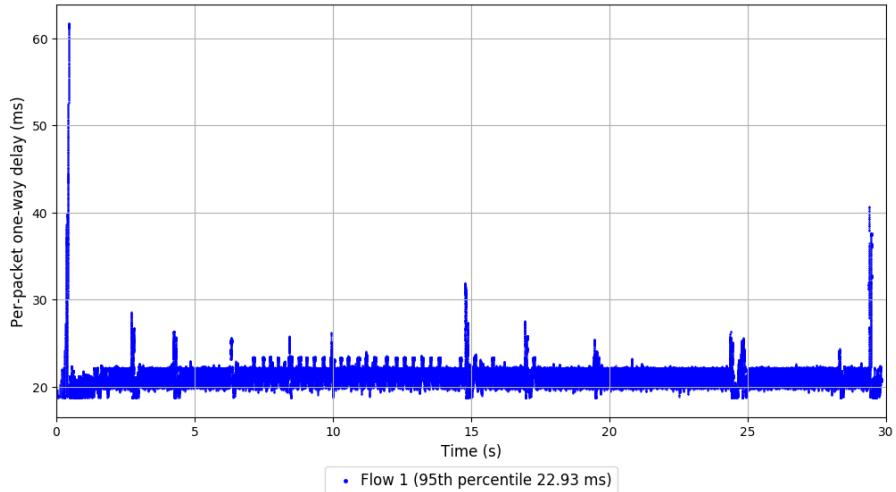
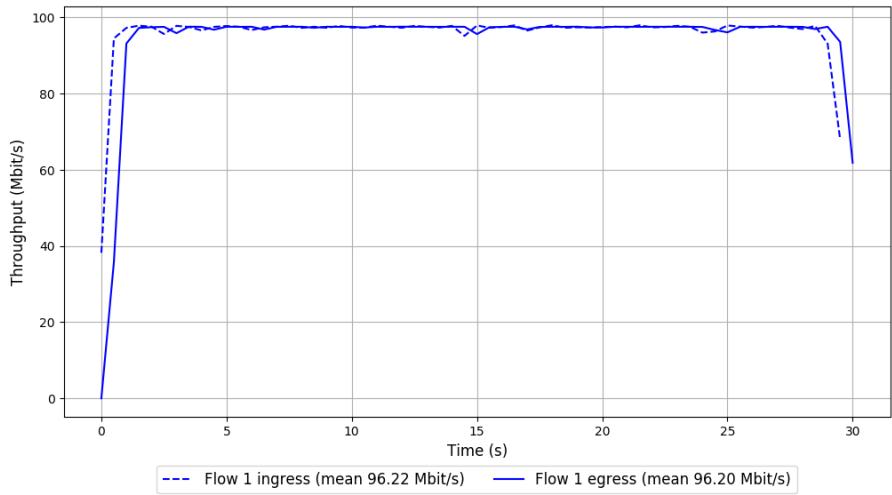


Run 2: Statistics of Indigo

```
Start at: 2019-11-24 12:15:45
End at: 2019-11-24 12:16:15
Local clock offset: 3.262 ms
Remote clock offset: -3.944 ms

# Below is generated by plot.py at 2019-11-24 14:11:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 22.928 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 22.928 ms
Loss rate: 0.17%
```

Run 2: Report of Indigo — Data Link

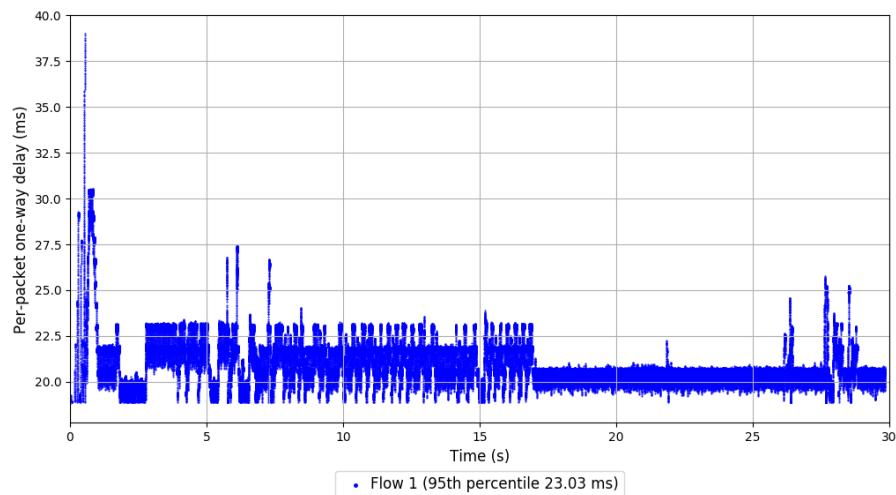
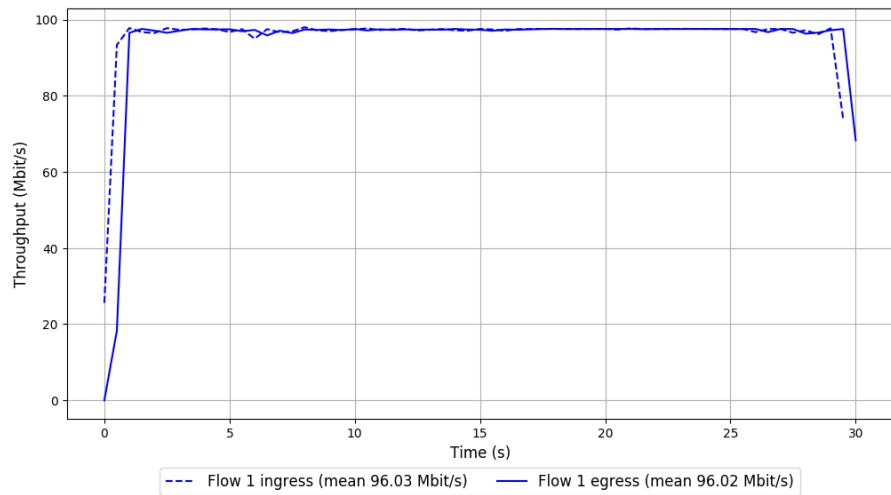


Run 3: Statistics of Indigo

```
Start at: 2019-11-24 12:45:16
End at: 2019-11-24 12:45:46
Local clock offset: 3.622 ms
Remote clock offset: -3.472 ms

# Below is generated by plot.py at 2019-11-24 14:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 23.029 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 23.029 ms
Loss rate: 0.17%
```

Run 3: Report of Indigo — Data Link

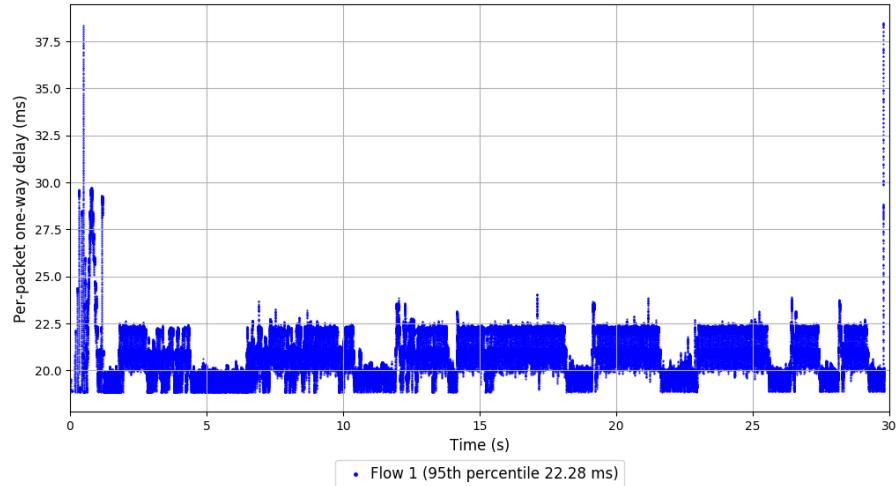
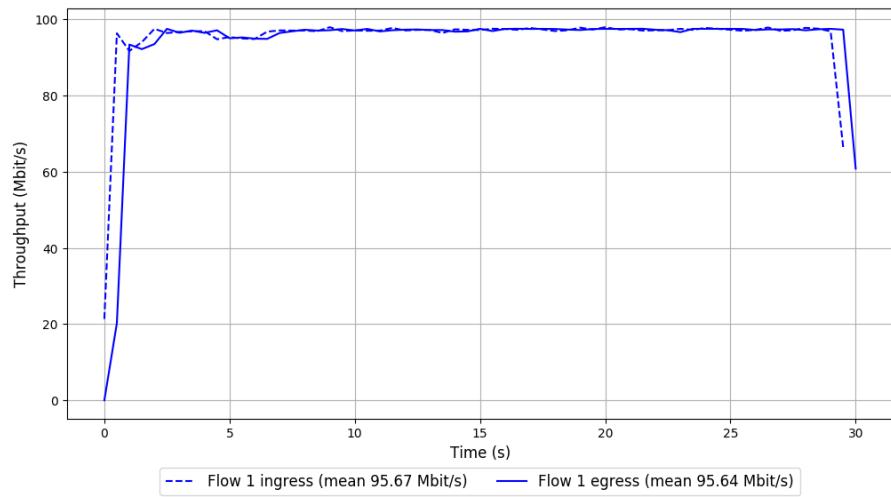


Run 4: Statistics of Indigo

```
Start at: 2019-11-24 13:14:20
End at: 2019-11-24 13:14:50
Local clock offset: 2.368 ms
Remote clock offset: -3.951 ms

# Below is generated by plot.py at 2019-11-24 14:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 22.280 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 22.280 ms
Loss rate: 0.17%
```

Run 4: Report of Indigo — Data Link

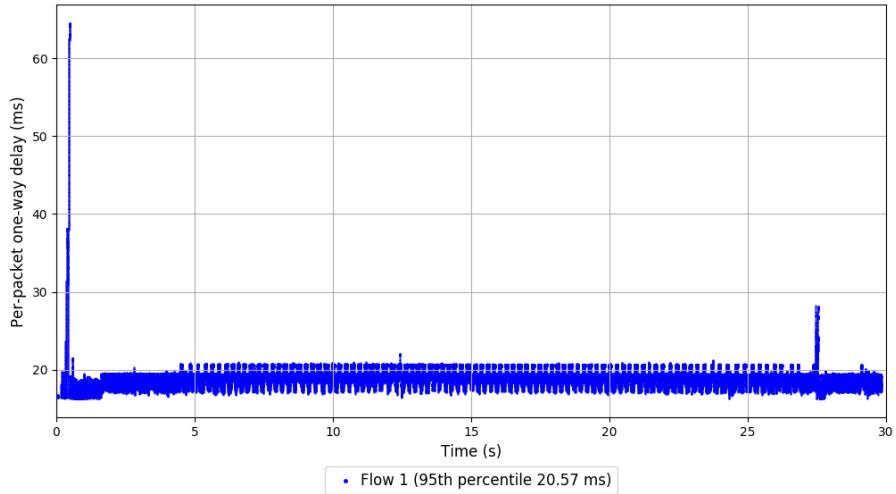
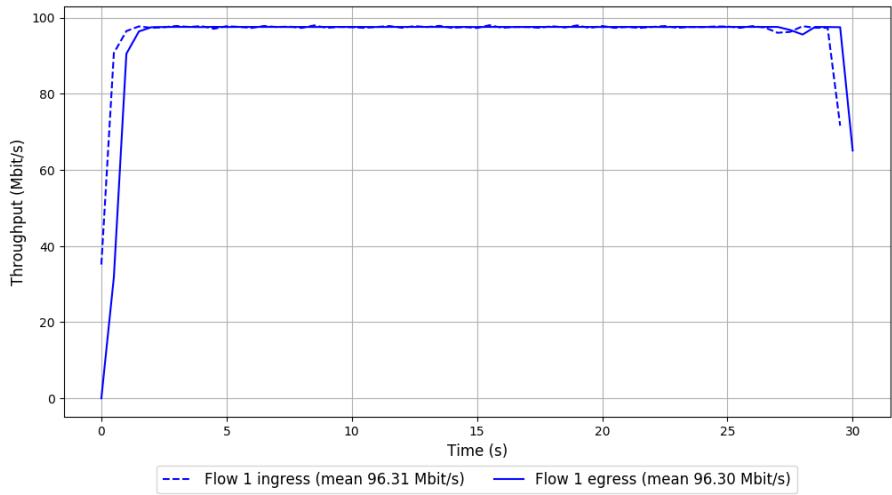


Run 5: Statistics of Indigo

```
Start at: 2019-11-24 13:43:36
End at: 2019-11-24 13:44:06
Local clock offset: 0.732 ms
Remote clock offset: -3.18 ms

# Below is generated by plot.py at 2019-11-24 14:12:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 20.567 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 20.567 ms
Loss rate: 0.17%
```

Run 5: Report of Indigo — Data Link

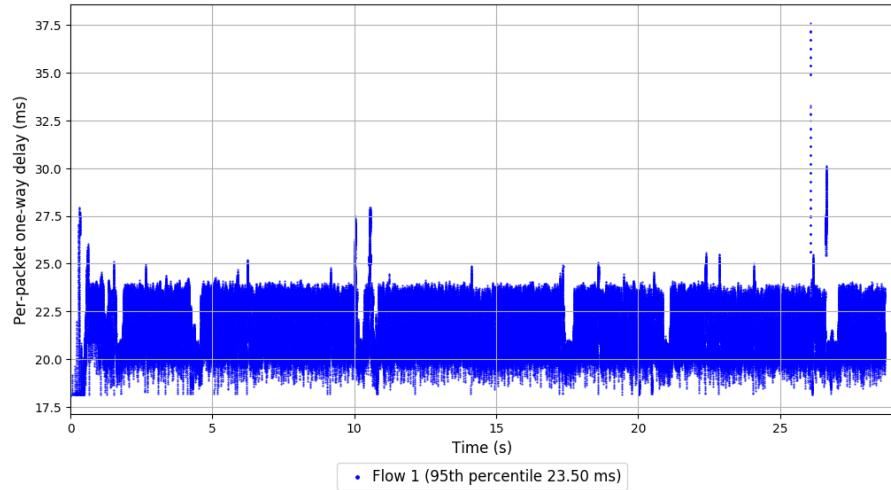
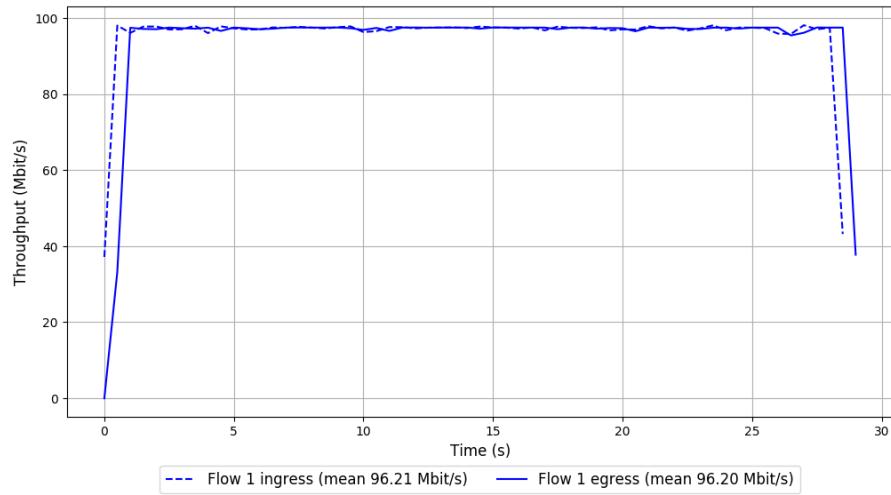


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-11-24 11:51:30
End at: 2019-11-24 11:52:00
Local clock offset: 1.946 ms
Remote clock offset: -4.445 ms

# Below is generated by plot.py at 2019-11-24 14:12:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 23.500 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 23.500 ms
Loss rate: 0.17%
```

Run 1: Report of Indigo-MusesC3 — Data Link

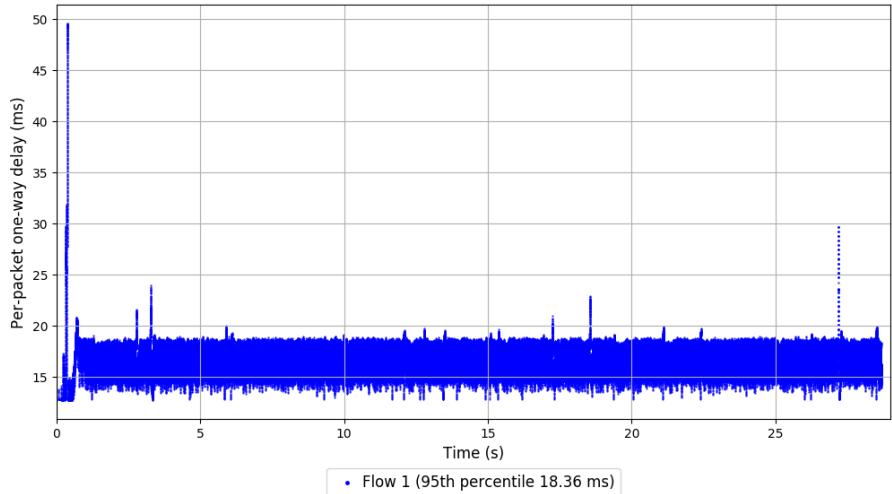
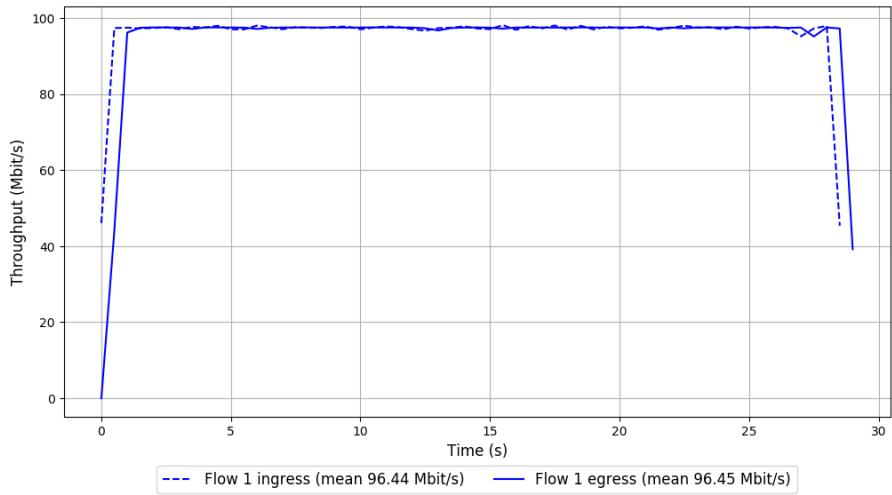


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-11-24 12:20:38
End at: 2019-11-24 12:21:08
Local clock offset: 1.106 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-11-24 14:12:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.45 Mbit/s
95th percentile per-packet one-way delay: 18.359 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 96.45 Mbit/s
95th percentile per-packet one-way delay: 18.359 ms
Loss rate: 0.18%
```

Run 2: Report of Indigo-MusesC3 — Data Link

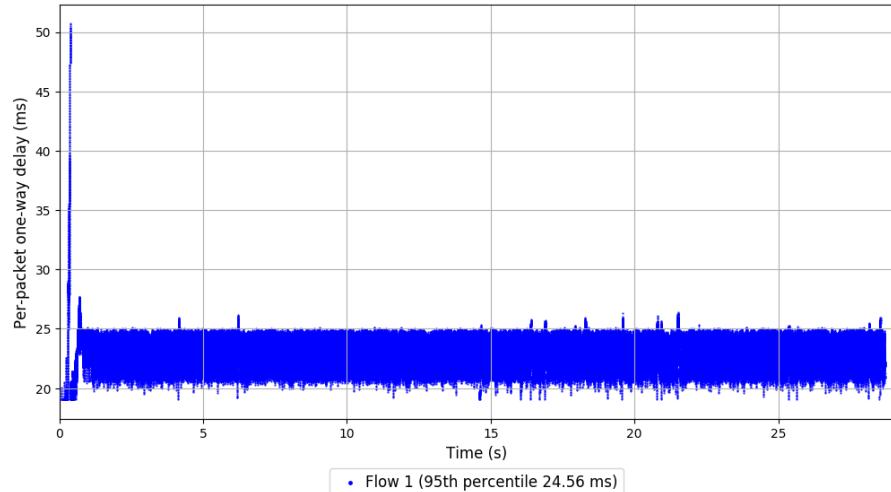
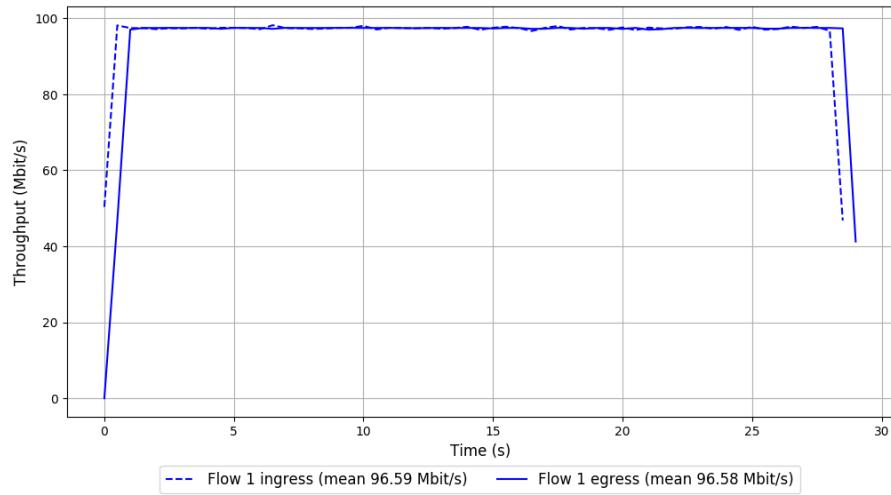


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-11-24 12:50:02
End at: 2019-11-24 12:50:32
Local clock offset: 3.471 ms
Remote clock offset: -3.615 ms

# Below is generated by plot.py at 2019-11-24 14:12:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 24.564 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 24.564 ms
Loss rate: 0.17%
```

Run 3: Report of Indigo-MusesC3 — Data Link

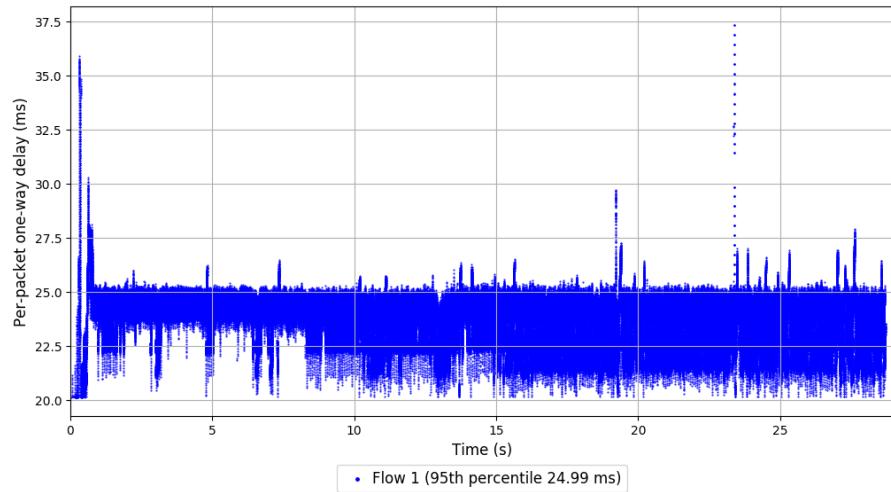
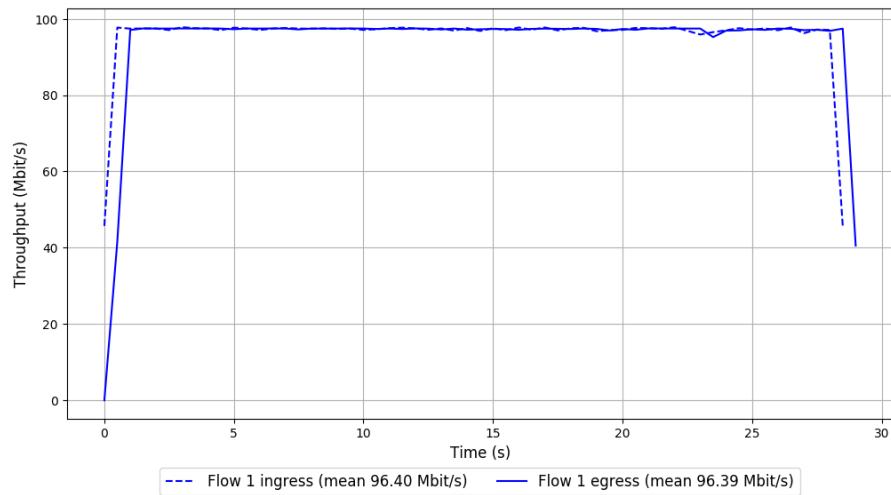


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-11-24 13:19:15
End at: 2019-11-24 13:19:45
Local clock offset: 3.523 ms
Remote clock offset: -3.951 ms

# Below is generated by plot.py at 2019-11-24 14:12:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 24.989 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 24.989 ms
Loss rate: 0.17%
```

Run 4: Report of Indigo-MusesC3 — Data Link

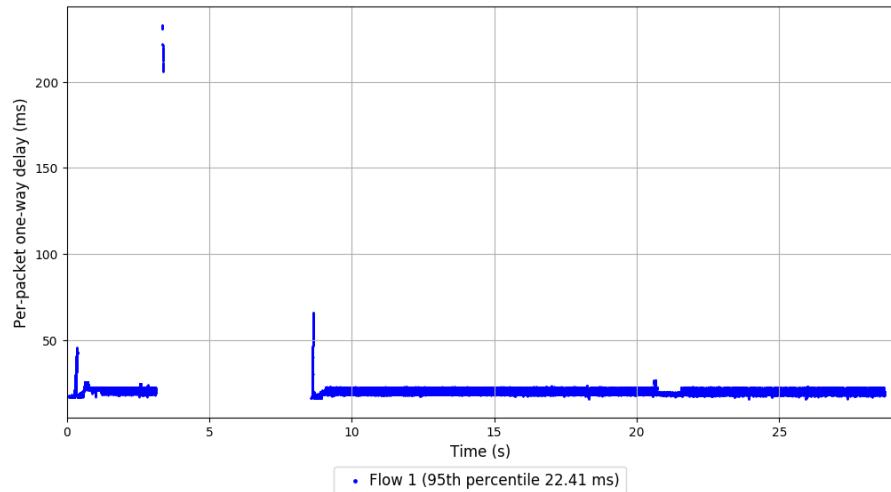
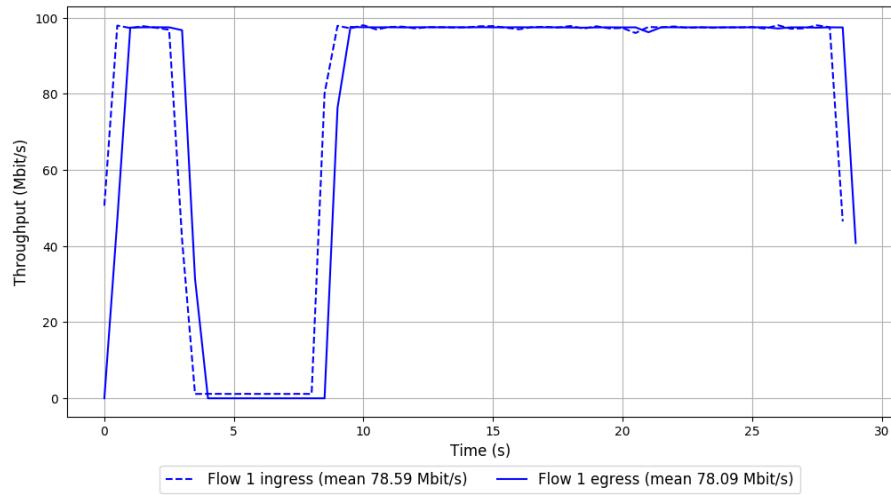


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-11-24 13:48:15
End at: 2019-11-24 13:48:45
Local clock offset: 2.784 ms
Remote clock offset: -2.236 ms

# Below is generated by plot.py at 2019-11-24 14:12:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.09 Mbit/s
95th percentile per-packet one-way delay: 22.413 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 78.09 Mbit/s
95th percentile per-packet one-way delay: 22.413 ms
Loss rate: 0.80%
```

Run 5: Report of Indigo-MusesC3 — Data Link

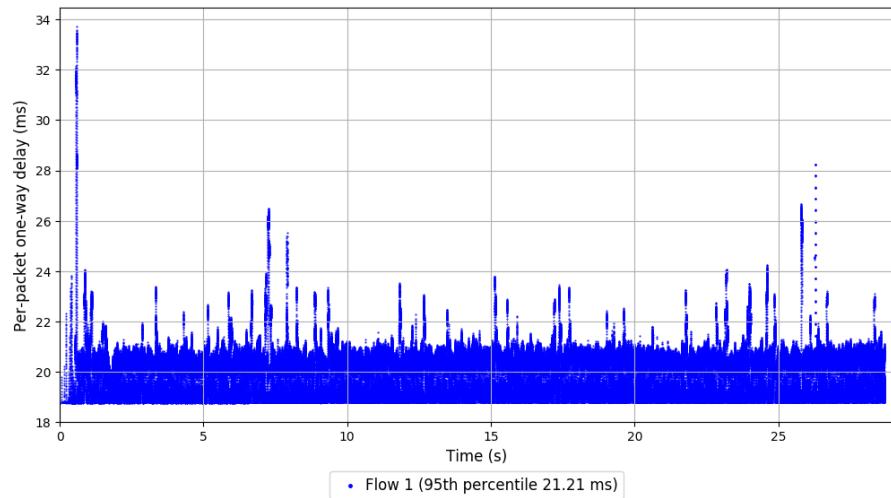
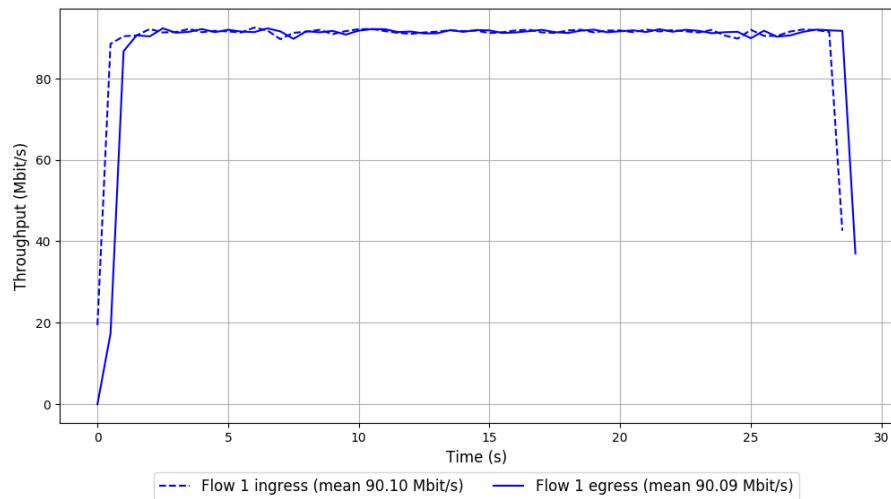


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-11-24 12:01:10
End at: 2019-11-24 12:01:40
Local clock offset: 3.093 ms
Remote clock offset: -4.265 ms

# Below is generated by plot.py at 2019-11-24 14:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 21.213 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 21.213 ms
Loss rate: 0.18%
```

Run 1: Report of Indigo-MusesC5 — Data Link

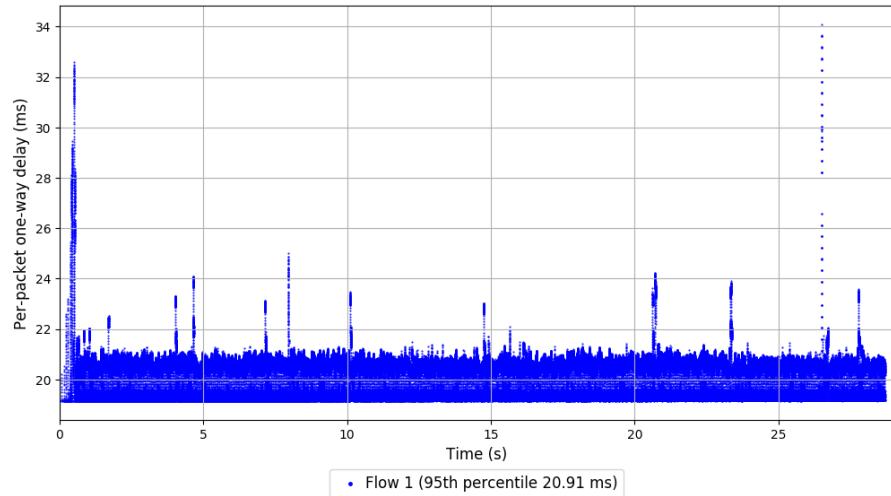
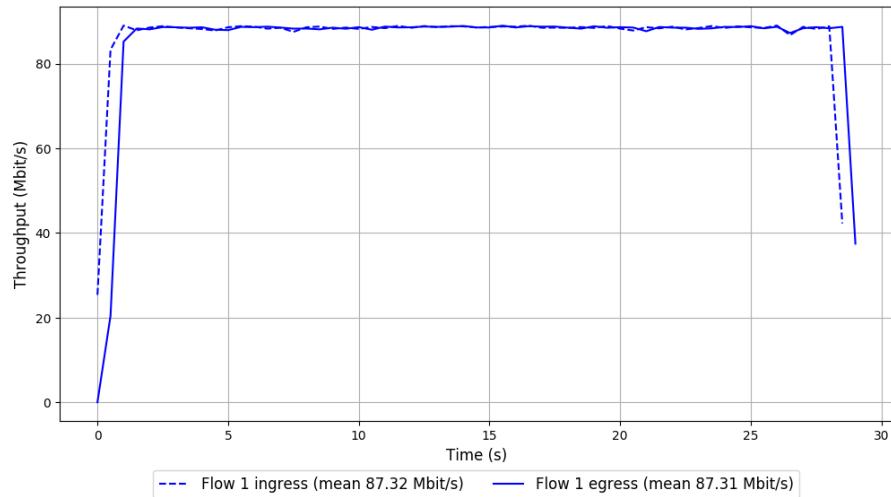


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-11-24 12:30:33
End at: 2019-11-24 12:31:03
Local clock offset: 4.573 ms
Remote clock offset: -2.783 ms

# Below is generated by plot.py at 2019-11-24 14:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.31 Mbit/s
95th percentile per-packet one-way delay: 20.914 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 87.31 Mbit/s
95th percentile per-packet one-way delay: 20.914 ms
Loss rate: 0.17%
```

Run 2: Report of Indigo-MusesC5 — Data Link

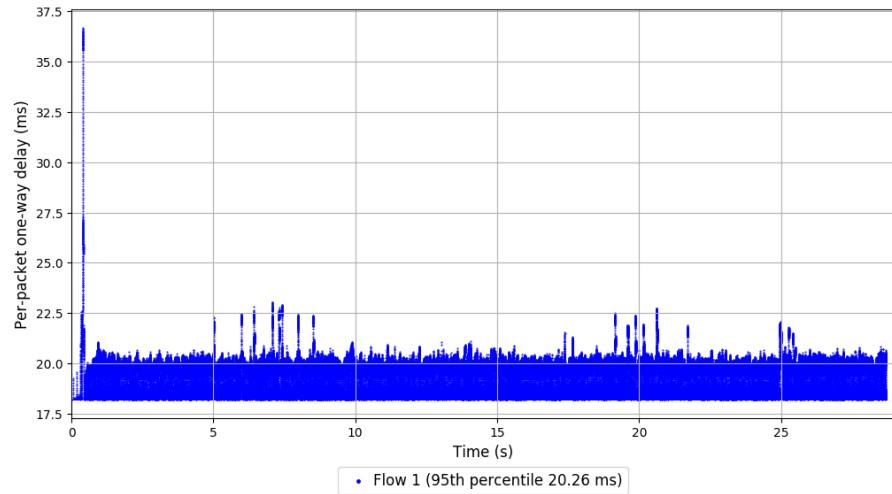
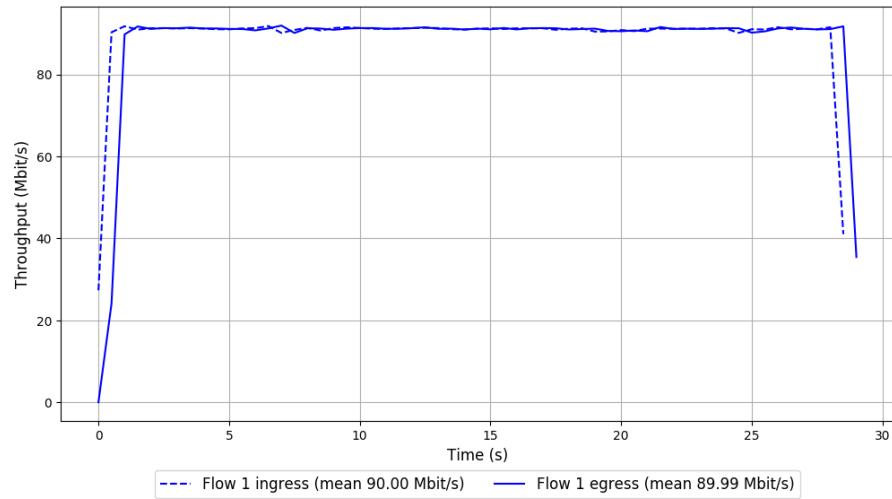


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-11-24 12:59:23
End at: 2019-11-24 12:59:53
Local clock offset: 4.258 ms
Remote clock offset: -1.972 ms

# Below is generated by plot.py at 2019-11-24 14:13:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.99 Mbit/s
95th percentile per-packet one-way delay: 20.257 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 89.99 Mbit/s
95th percentile per-packet one-way delay: 20.257 ms
Loss rate: 0.17%
```

Run 3: Report of Indigo-MusesC5 — Data Link

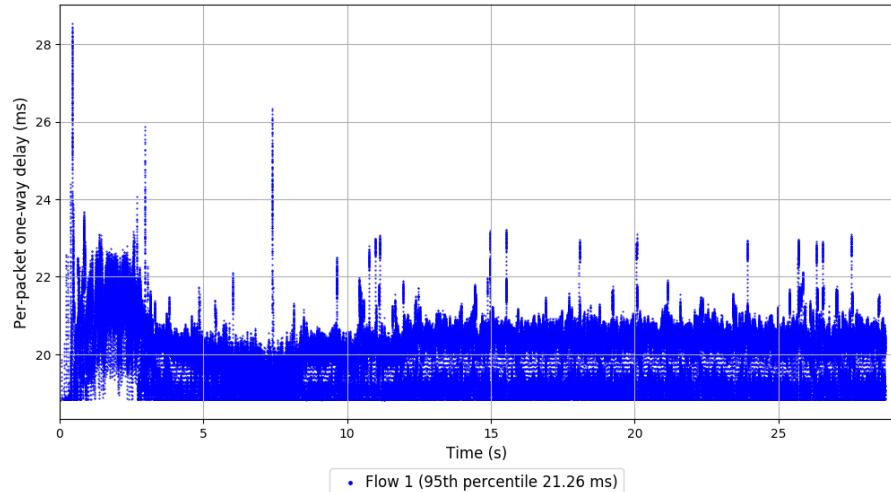
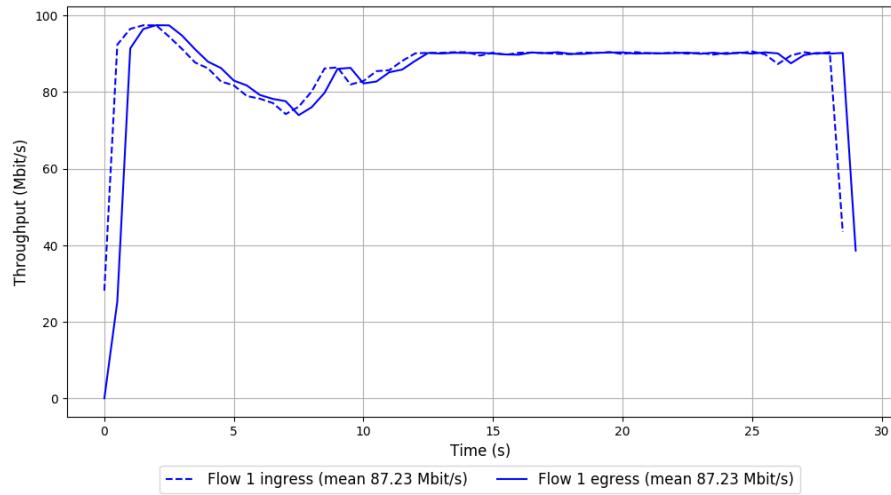


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-11-24 13:28:56
End at: 2019-11-24 13:29:26
Local clock offset: 2.806 ms
Remote clock offset: -2.985 ms

# Below is generated by plot.py at 2019-11-24 14:13:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 21.264 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 21.264 ms
Loss rate: 0.17%
```

Run 4: Report of Indigo-MusesC5 — Data Link

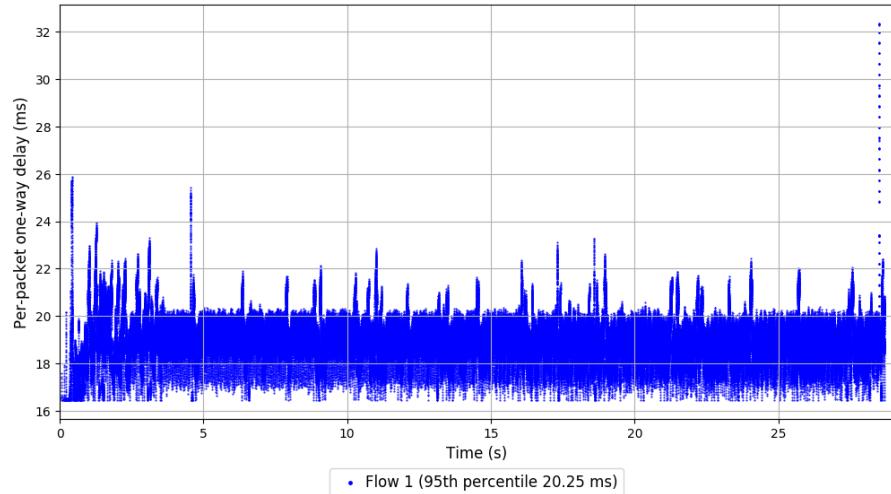
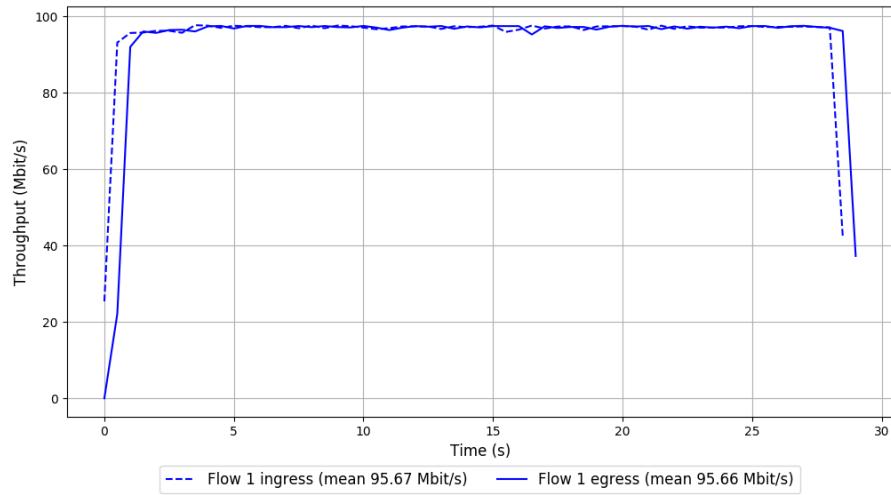


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-11-24 13:57:28
End at: 2019-11-24 13:57:58
Local clock offset: 3.627 ms
Remote clock offset: -1.256 ms

# Below is generated by plot.py at 2019-11-24 14:13:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 20.253 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 20.253 ms
Loss rate: 0.18%
```

Run 5: Report of Indigo-MusesC5 — Data Link

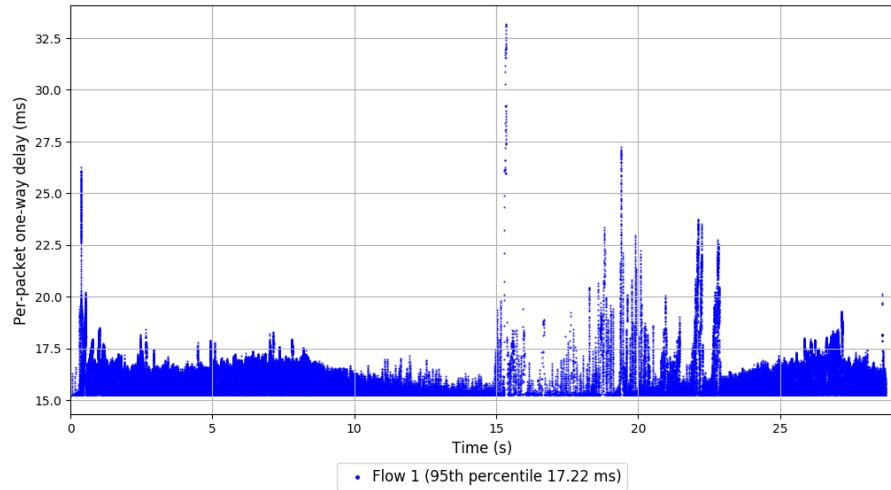
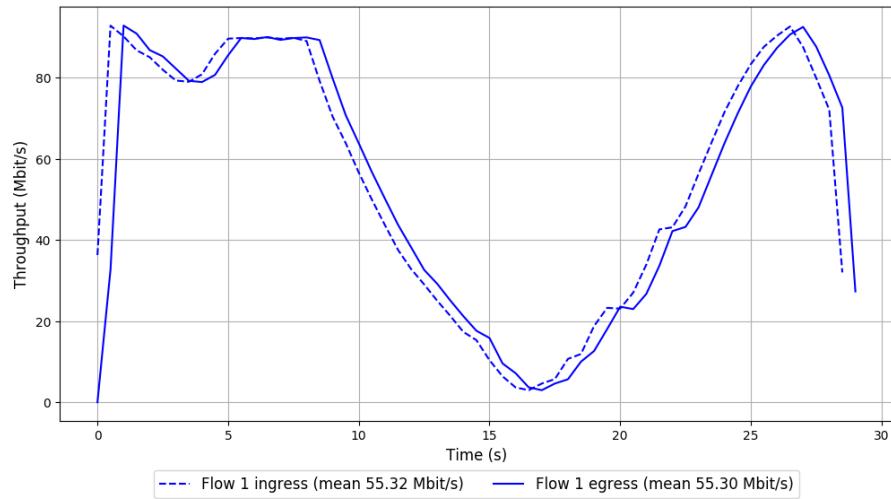


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-11-24 12:00:00
End at: 2019-11-24 12:00:30
Local clock offset: 1.008 ms
Remote clock offset: -2.696 ms

# Below is generated by plot.py at 2019-11-24 14:13:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.30 Mbit/s
95th percentile per-packet one-way delay: 17.216 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 55.30 Mbit/s
95th percentile per-packet one-way delay: 17.216 ms
Loss rate: 0.20%
```

Run 1: Report of Indigo-MusesD — Data Link

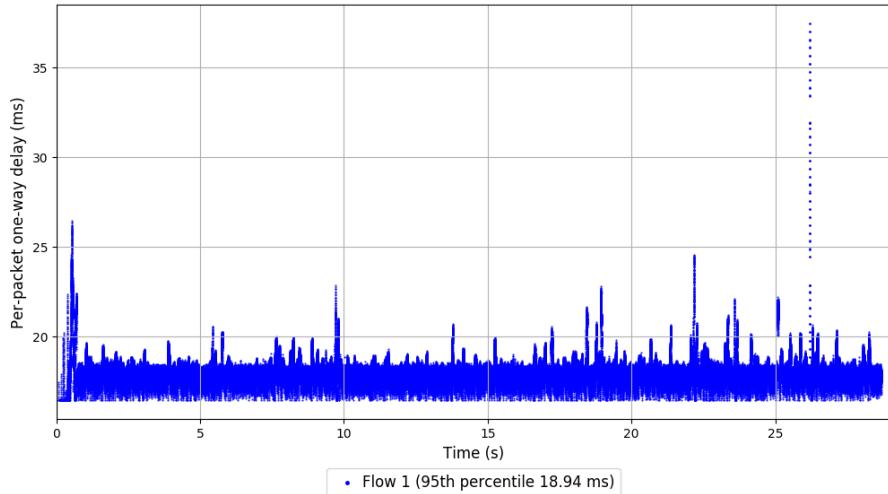
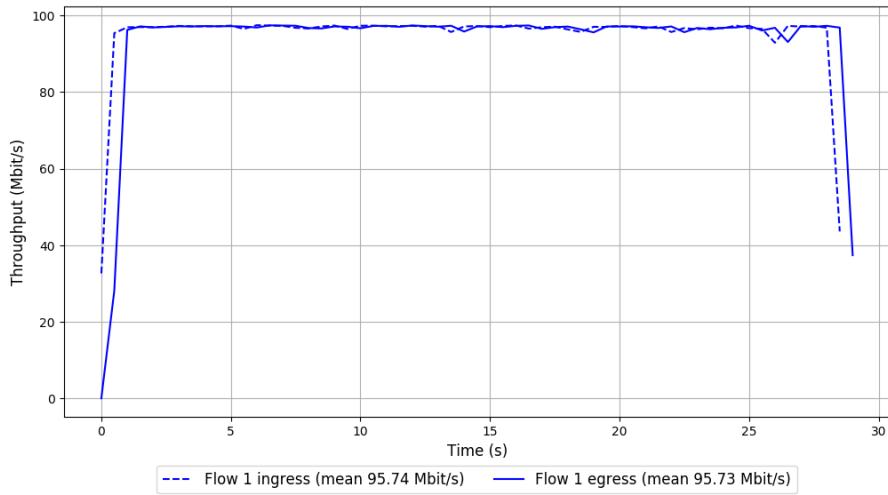


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-11-24 12:29:16
End at: 2019-11-24 12:29:46
Local clock offset: 4.489 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-11-24 14:13:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.73 Mbit/s
95th percentile per-packet one-way delay: 18.943 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 95.73 Mbit/s
95th percentile per-packet one-way delay: 18.943 ms
Loss rate: 0.17%
```

Run 2: Report of Indigo-MusesD — Data Link

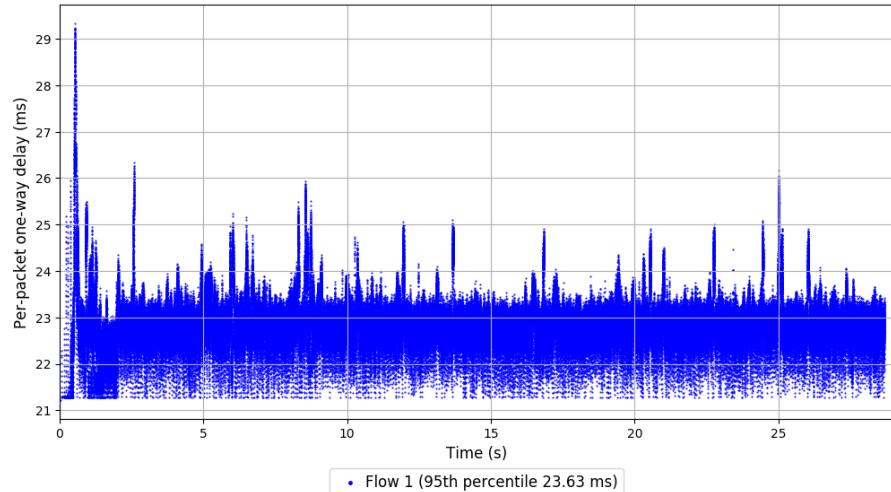
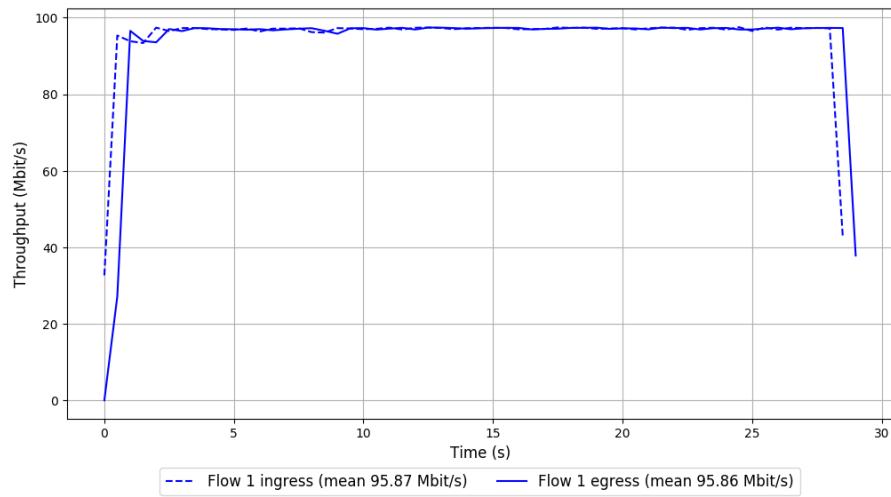


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-11-24 12:58:12
End at: 2019-11-24 12:58:42
Local clock offset: 4.601 ms
Remote clock offset: -4.739 ms

# Below is generated by plot.py at 2019-11-24 14:14:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 23.630 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 23.630 ms
Loss rate: 0.17%
```

Run 3: Report of Indigo-MusesD — Data Link

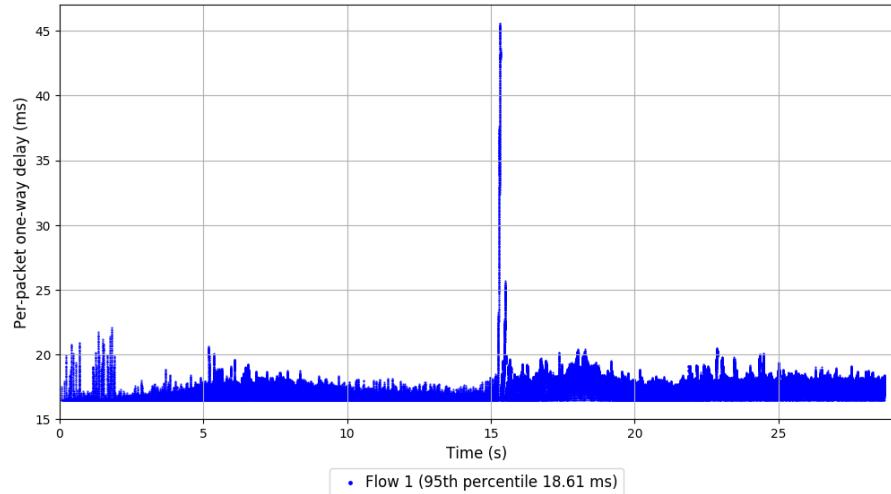
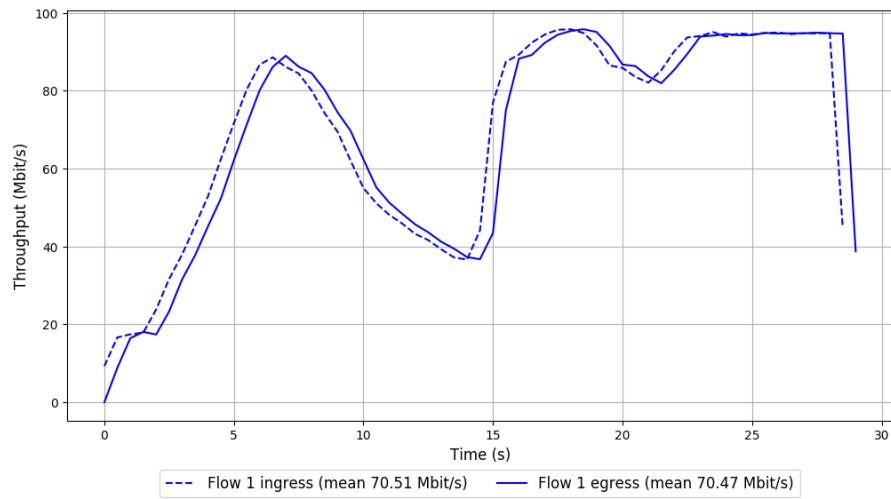


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-11-24 13:27:46
End at: 2019-11-24 13:28:16
Local clock offset: -0.498 ms
Remote clock offset: -3.865 ms

# Below is generated by plot.py at 2019-11-24 14:14:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.47 Mbit/s
95th percentile per-packet one-way delay: 18.614 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 70.47 Mbit/s
95th percentile per-packet one-way delay: 18.614 ms
Loss rate: 0.23%
```

Run 4: Report of Indigo-MusesD — Data Link

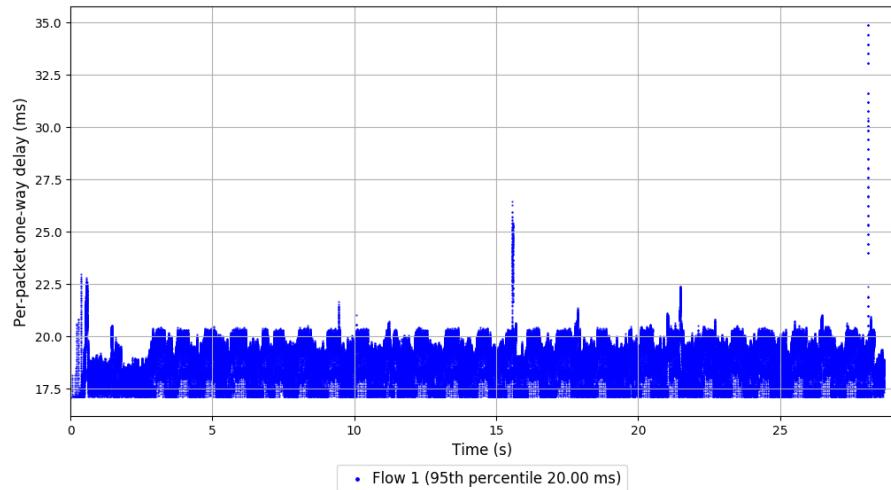
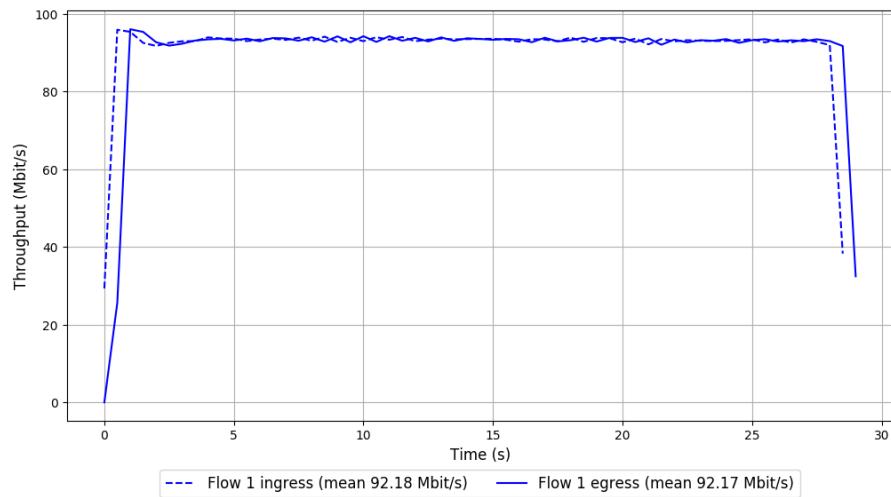


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-11-24 13:56:17
End at: 2019-11-24 13:56:47
Local clock offset: 4.007 ms
Remote clock offset: -1.491 ms

# Below is generated by plot.py at 2019-11-24 14:14:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.17 Mbit/s
95th percentile per-packet one-way delay: 20.000 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 92.17 Mbit/s
95th percentile per-packet one-way delay: 20.000 ms
Loss rate: 0.18%
```

Run 5: Report of Indigo-MusesD — Data Link

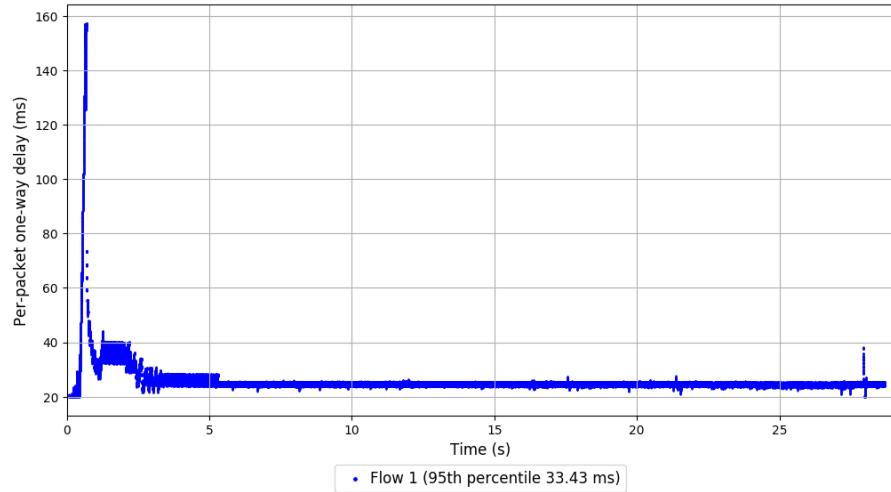
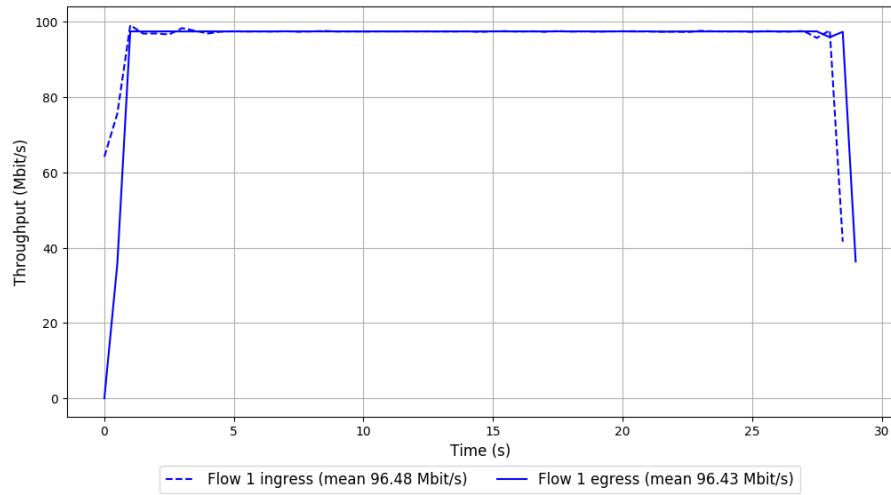


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-11-24 11:49:00
End at: 2019-11-24 11:49:30
Local clock offset: 3.9 ms
Remote clock offset: -4.046 ms

# Below is generated by plot.py at 2019-11-24 14:14:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.43 Mbit/s
95th percentile per-packet one-way delay: 33.432 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 96.43 Mbit/s
95th percentile per-packet one-way delay: 33.432 ms
Loss rate: 0.22%
```

Run 1: Report of Indigo-MusesT — Data Link

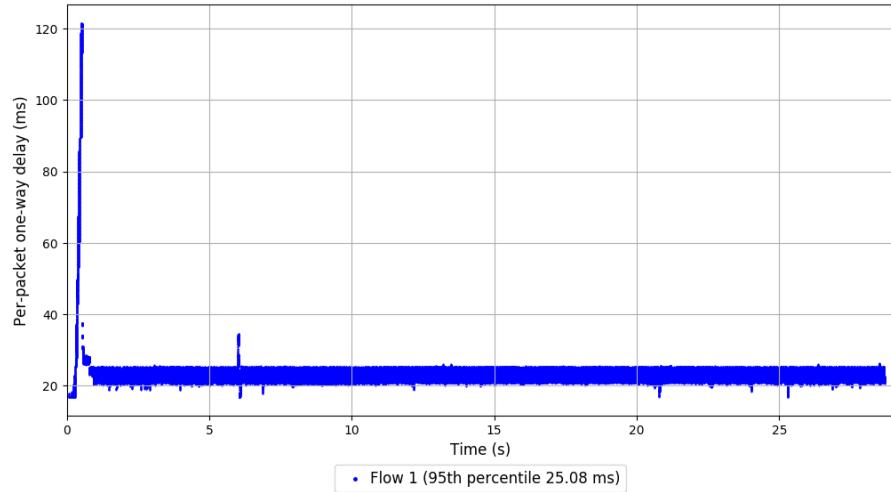
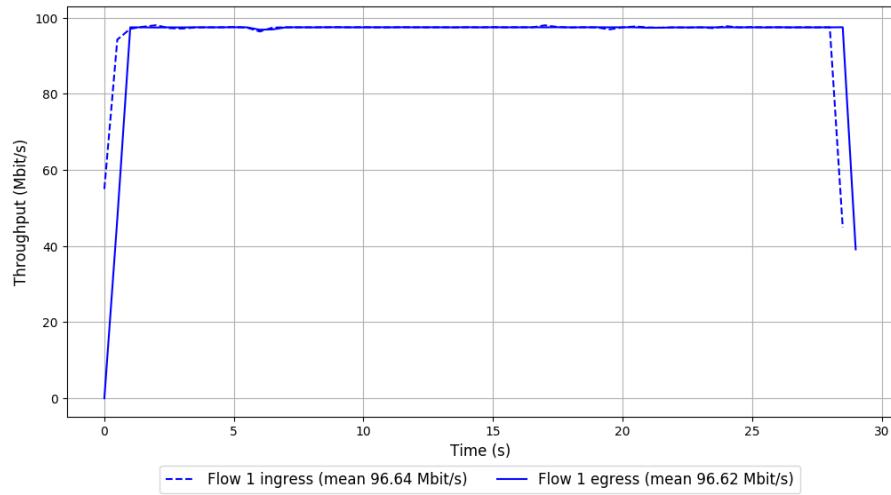


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-11-24 12:18:12
End at: 2019-11-24 12:18:42
Local clock offset: 2.624 ms
Remote clock offset: -2.576 ms

# Below is generated by plot.py at 2019-11-24 14:14:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.62 Mbit/s
95th percentile per-packet one-way delay: 25.082 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 96.62 Mbit/s
95th percentile per-packet one-way delay: 25.082 ms
Loss rate: 0.19%
```

Run 2: Report of Indigo-MusesT — Data Link

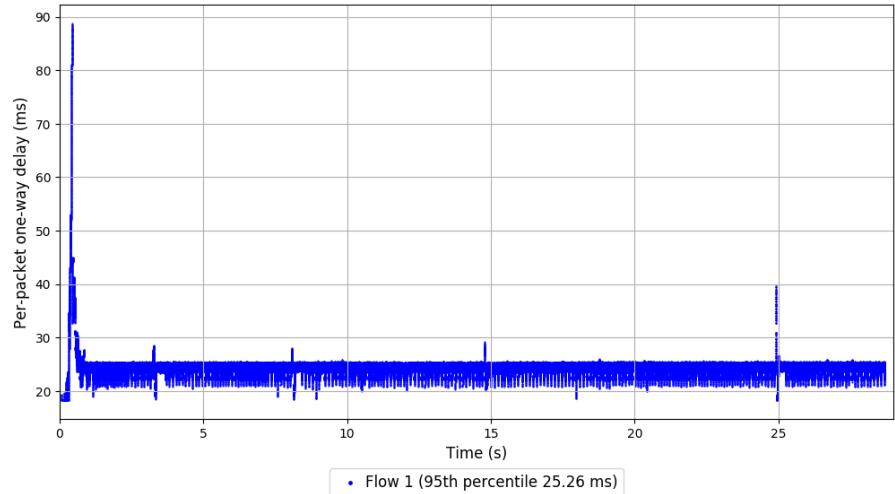
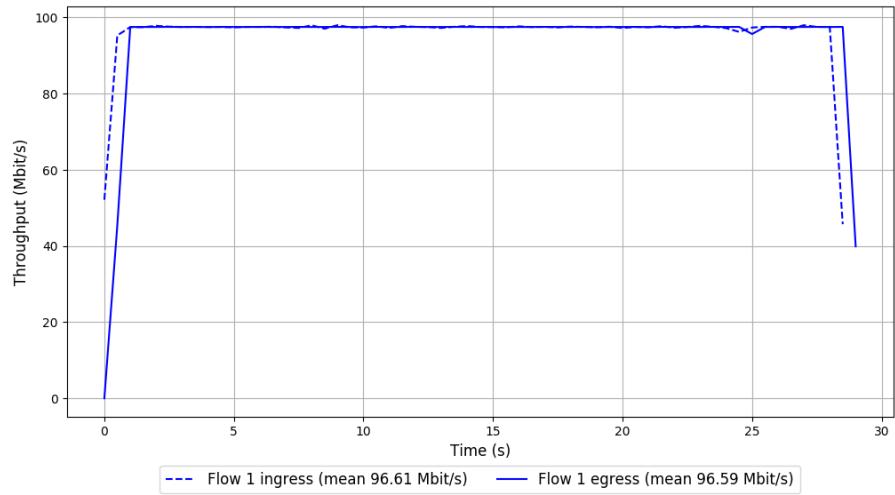


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-11-24 12:47:39
End at: 2019-11-24 12:48:09
Local clock offset: 2.7 ms
Remote clock offset: -3.666 ms

# Below is generated by plot.py at 2019-11-24 14:14:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 25.258 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 25.258 ms
Loss rate: 0.19%
```

Run 3: Report of Indigo-MusesT — Data Link

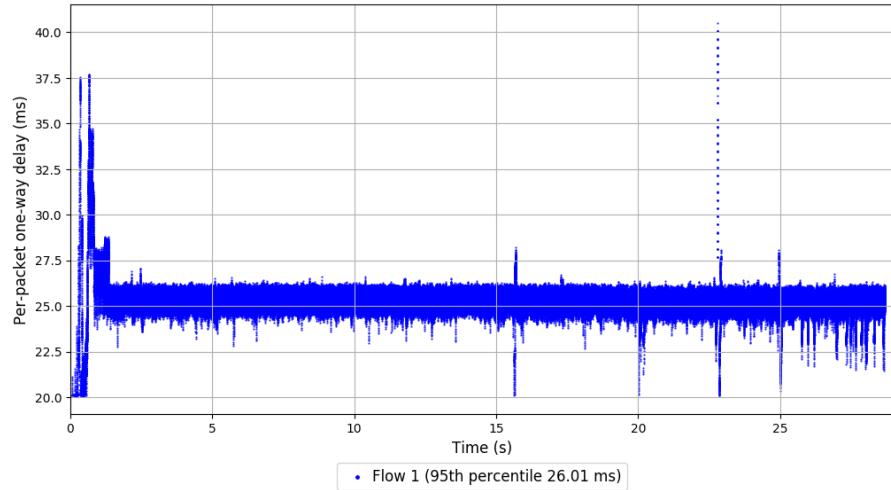
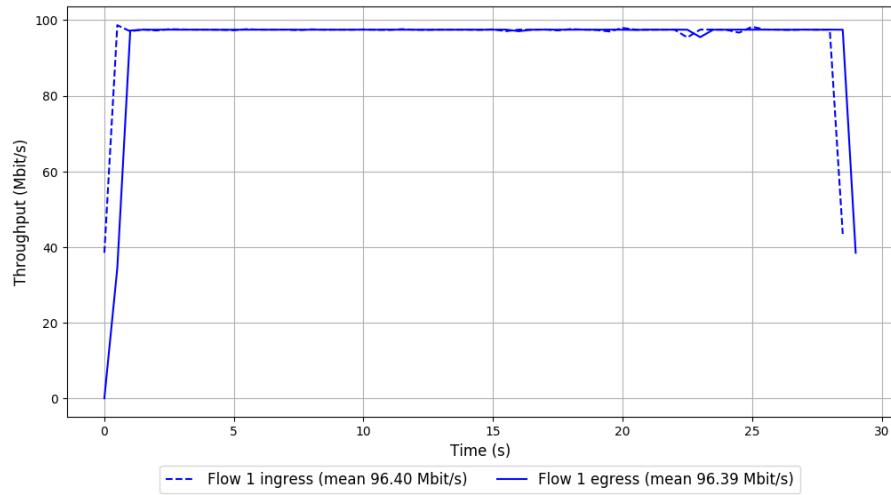


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-11-24 13:16:44
End at: 2019-11-24 13:17:14
Local clock offset: 4.005 ms
Remote clock offset: -3.578 ms

# Below is generated by plot.py at 2019-11-24 14:14:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 26.012 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 26.012 ms
Loss rate: 0.18%
```

Run 4: Report of Indigo-MusesT — Data Link

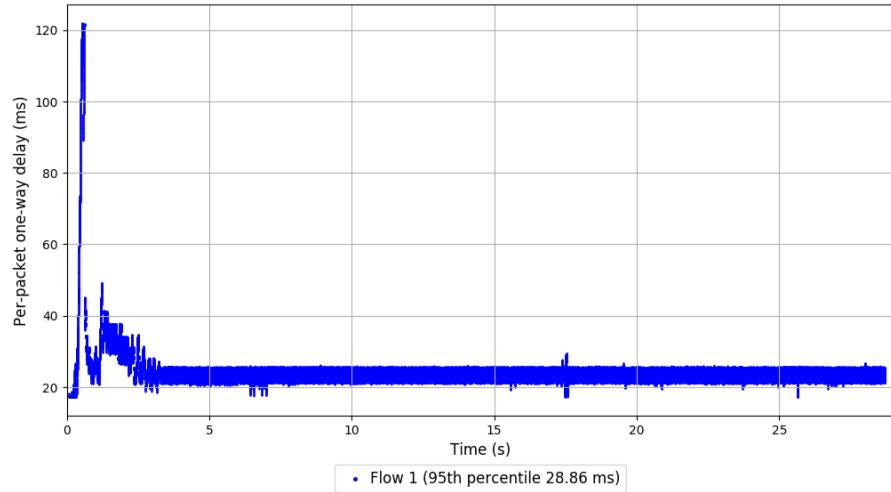
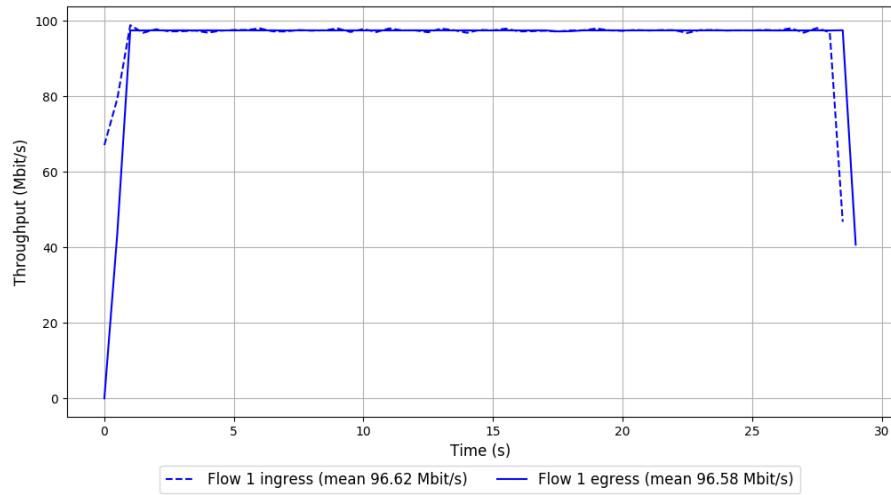


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-11-24 13:45:56
End at: 2019-11-24 13:46:26
Local clock offset: 1.814 ms
Remote clock offset: -3.092 ms

# Below is generated by plot.py at 2019-11-24 14:15:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 28.864 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 28.864 ms
Loss rate: 0.21%
```

Run 5: Report of Indigo-MusesT — Data Link

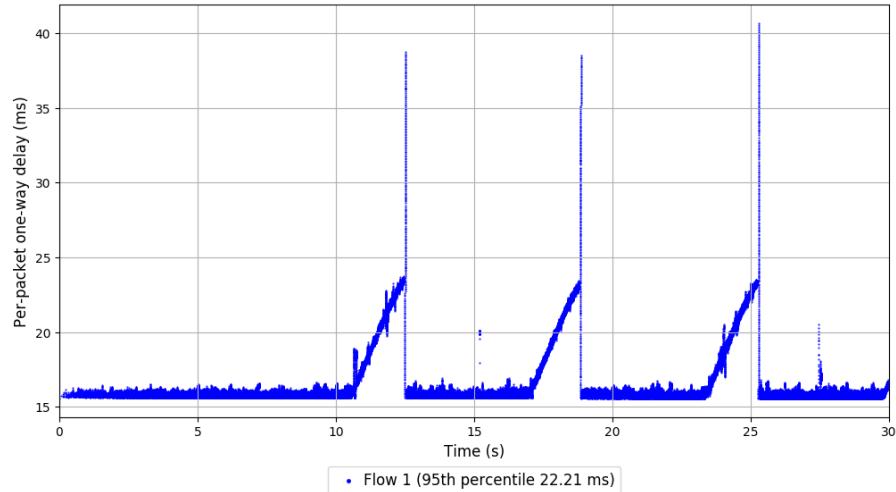
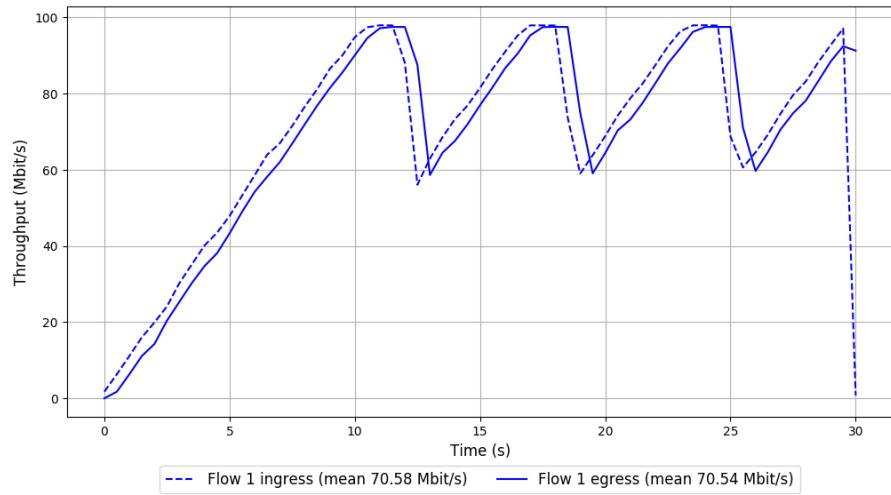


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-11-24 11:40:24
End at: 2019-11-24 11:40:54
Local clock offset: 1.667 ms
Remote clock offset: -1.21 ms

# Below is generated by plot.py at 2019-11-24 14:15:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.54 Mbit/s
95th percentile per-packet one-way delay: 22.211 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 70.54 Mbit/s
95th percentile per-packet one-way delay: 22.211 ms
Loss rate: 0.23%
```

Run 1: Report of LEDBAT — Data Link

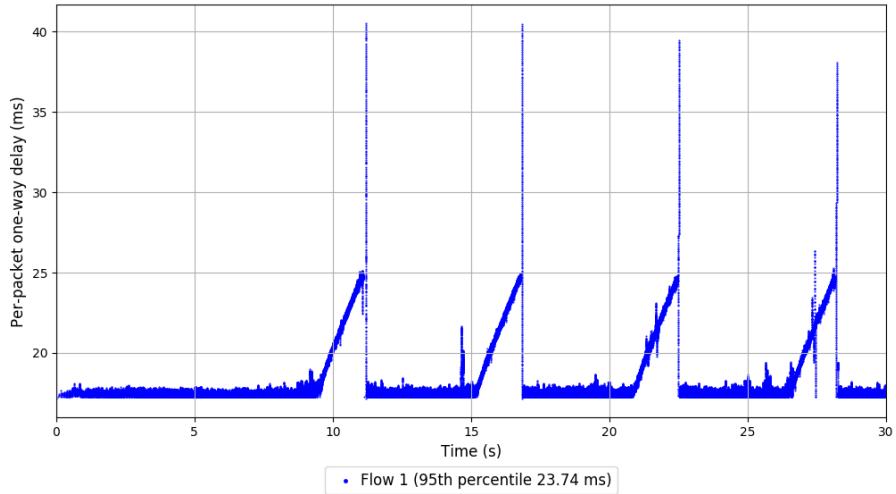
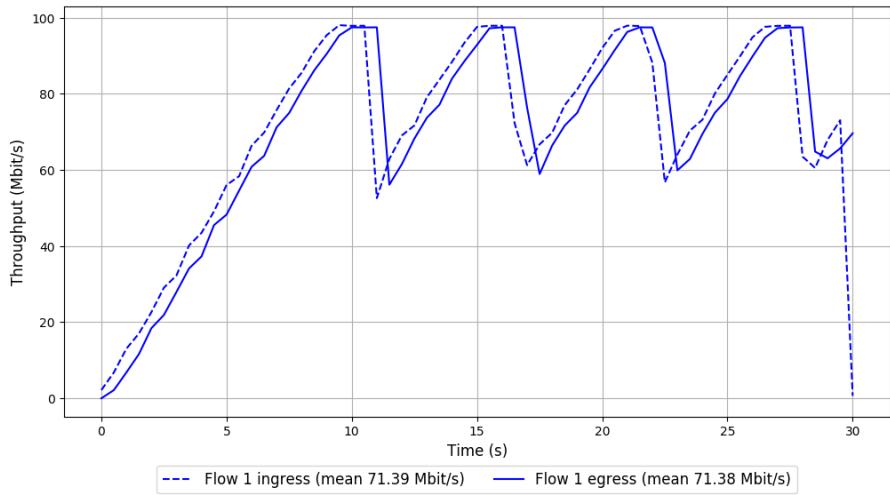


Run 2: Statistics of LEDBAT

```
Start at: 2019-11-24 12:09:43
End at: 2019-11-24 12:10:14
Local clock offset: 3.09 ms
Remote clock offset: -2.565 ms

# Below is generated by plot.py at 2019-11-24 14:15:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.38 Mbit/s
95th percentile per-packet one-way delay: 23.740 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 71.38 Mbit/s
95th percentile per-packet one-way delay: 23.740 ms
Loss rate: 0.17%
```

Run 2: Report of LEDBAT — Data Link

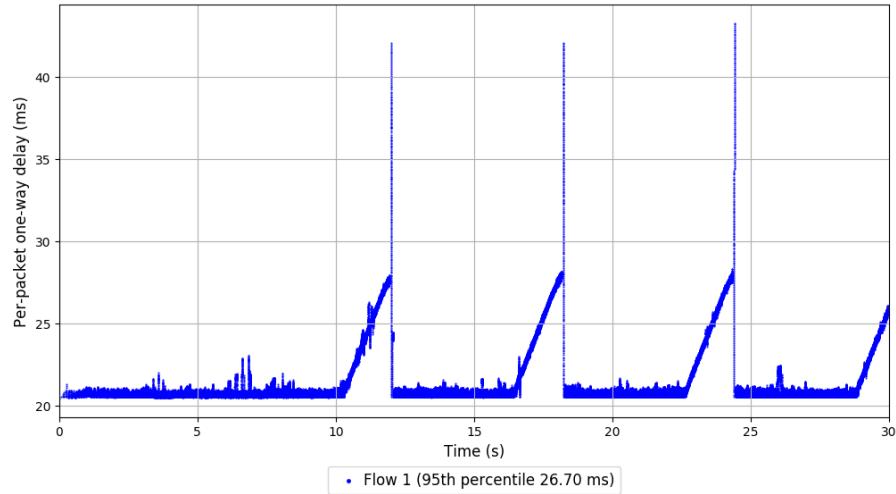
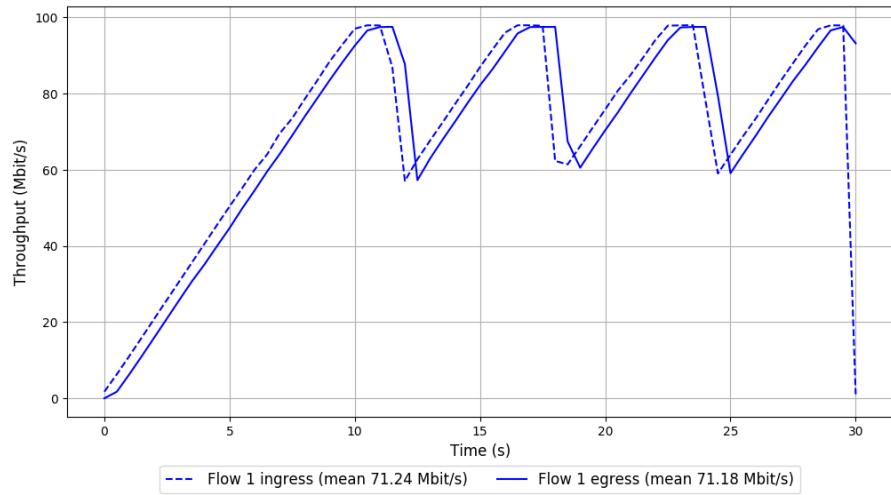


Run 3: Statistics of LEDBAT

```
Start at: 2019-11-24 12:39:22
End at: 2019-11-24 12:39:52
Local clock offset: 5.252 ms
Remote clock offset: -3.503 ms

# Below is generated by plot.py at 2019-11-24 14:15:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.18 Mbit/s
95th percentile per-packet one-way delay: 26.702 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 71.18 Mbit/s
95th percentile per-packet one-way delay: 26.702 ms
Loss rate: 0.25%
```

Run 3: Report of LEDBAT — Data Link

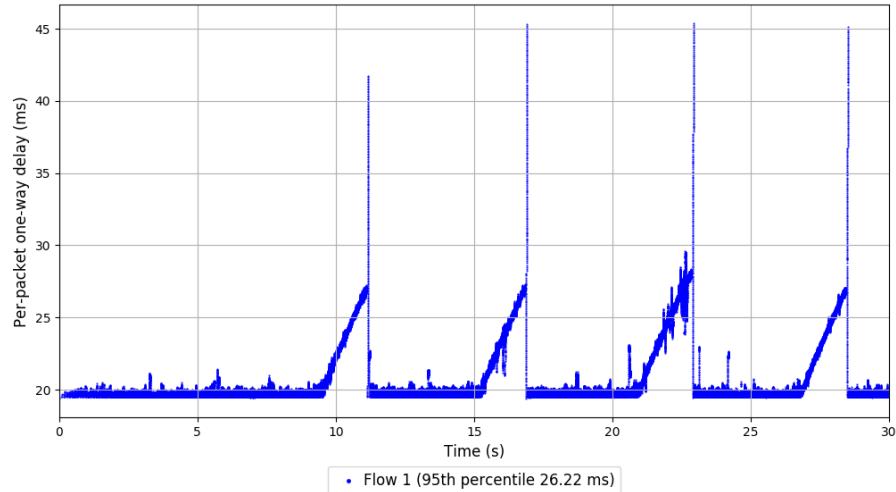
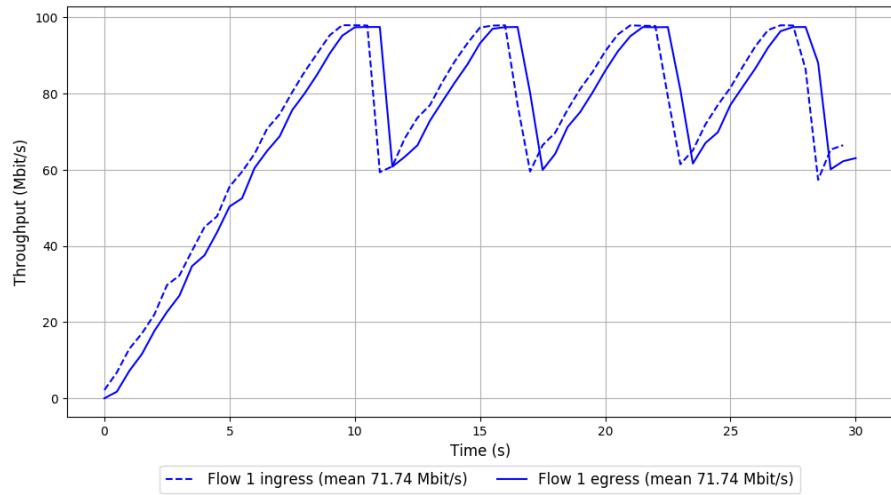


Run 4: Statistics of LEDBAT

```
Start at: 2019-11-24 13:07:59
End at: 2019-11-24 13:08:29
Local clock offset: 3.871 ms
Remote clock offset: -3.588 ms

# Below is generated by plot.py at 2019-11-24 14:15:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.74 Mbit/s
95th percentile per-packet one-way delay: 26.220 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 71.74 Mbit/s
95th percentile per-packet one-way delay: 26.220 ms
Loss rate: 0.16%
```

Run 4: Report of LEDBAT — Data Link

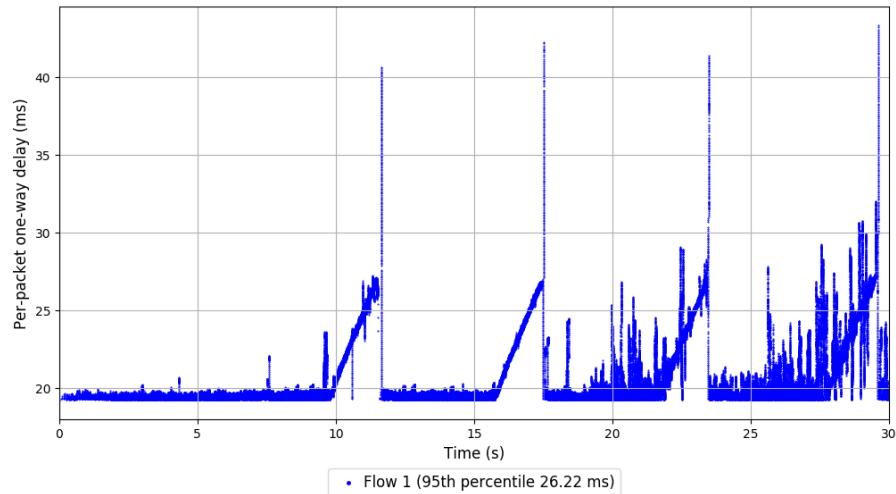
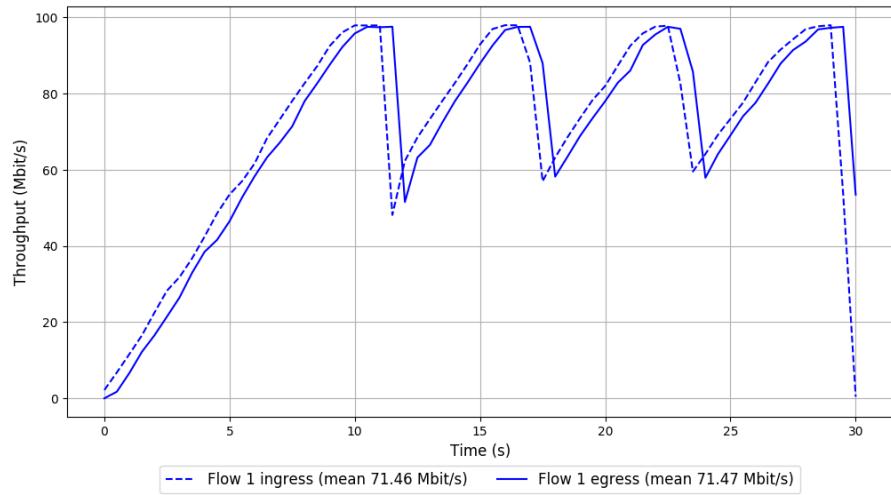


Run 5: Statistics of LEDBAT

```
Start at: 2019-11-24 13:37:25
End at: 2019-11-24 13:37:55
Local clock offset: 3.646 ms
Remote clock offset: -2.477 ms

# Below is generated by plot.py at 2019-11-24 14:15:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.47 Mbit/s
95th percentile per-packet one-way delay: 26.216 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 71.47 Mbit/s
95th percentile per-packet one-way delay: 26.216 ms
Loss rate: 0.14%
```

Run 5: Report of LEDBAT — Data Link

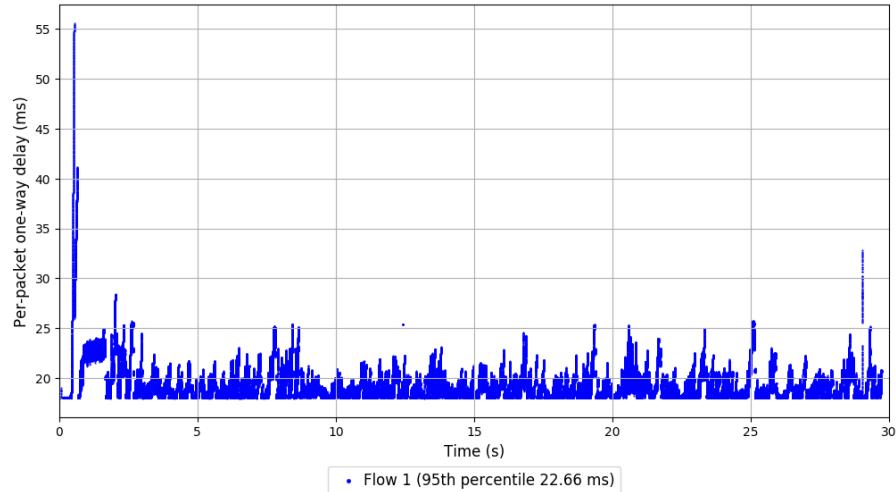
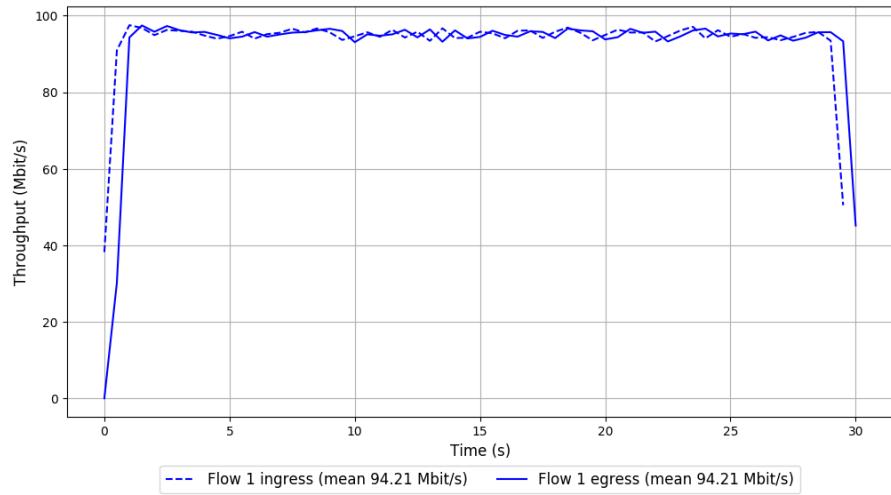


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 12:03:43
End at: 2019-11-24 12:04:13
Local clock offset: 2.582 ms
Remote clock offset: -3.808 ms

# Below is generated by plot.py at 2019-11-24 14:15:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 22.665 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 22.665 ms
Loss rate: 0.16%
```

Run 1: Report of Muses_DecisionTree — Data Link

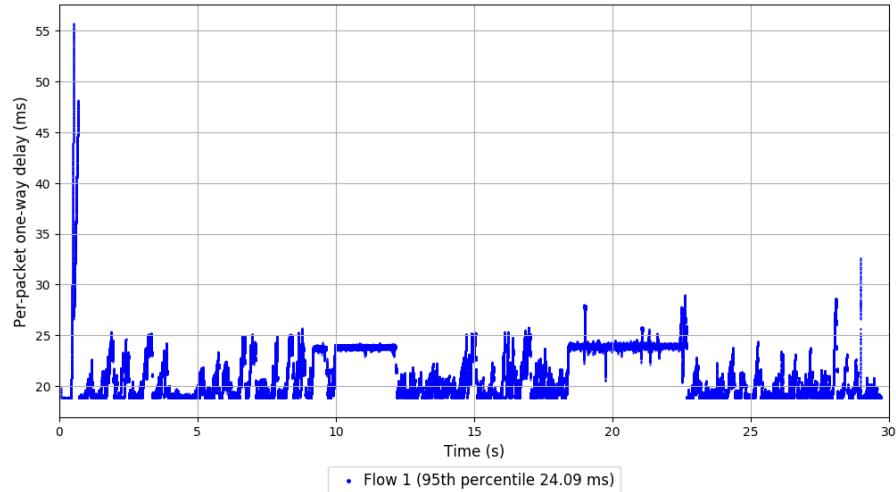
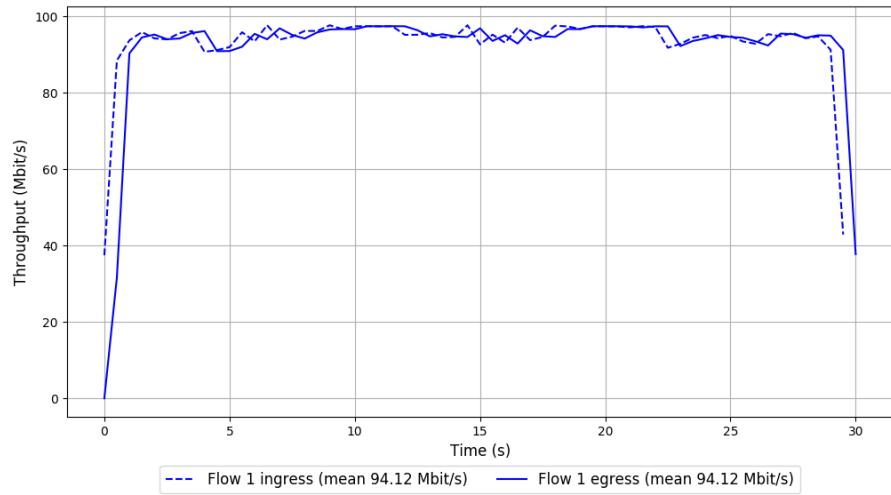


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 12:33:00
End at: 2019-11-24 12:33:30
Local clock offset: 4.414 ms
Remote clock offset: -2.585 ms

# Below is generated by plot.py at 2019-11-24 14:15:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.12 Mbit/s
95th percentile per-packet one-way delay: 24.087 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 94.12 Mbit/s
95th percentile per-packet one-way delay: 24.087 ms
Loss rate: 0.16%
```

Run 2: Report of Muses_DecisionTree — Data Link

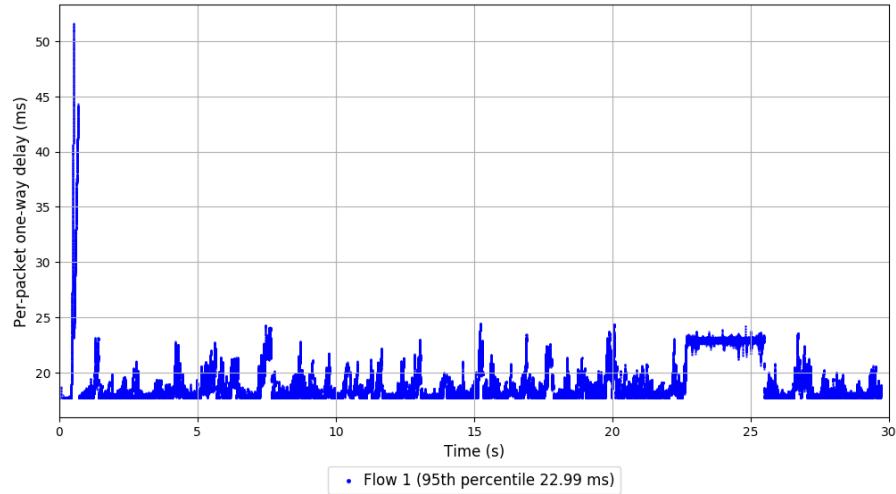
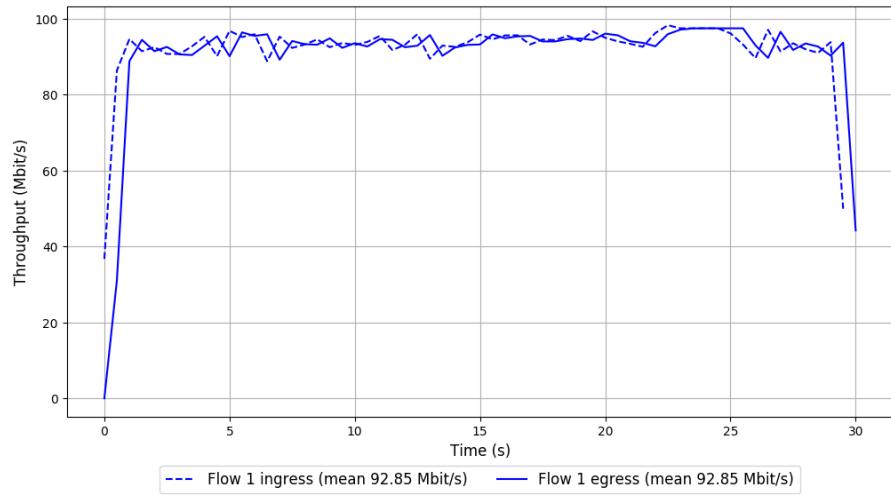


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 13:01:51
End at: 2019-11-24 13:02:21
Local clock offset: 4.118 ms
Remote clock offset: -1.665 ms

# Below is generated by plot.py at 2019-11-24 14:15:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 22.987 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 22.987 ms
Loss rate: 0.17%
```

Run 3: Report of Muses_DecisionTree — Data Link

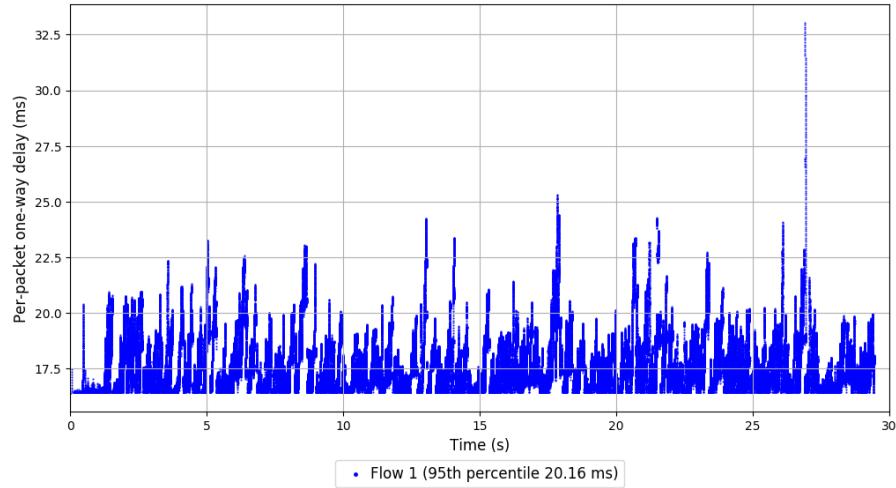
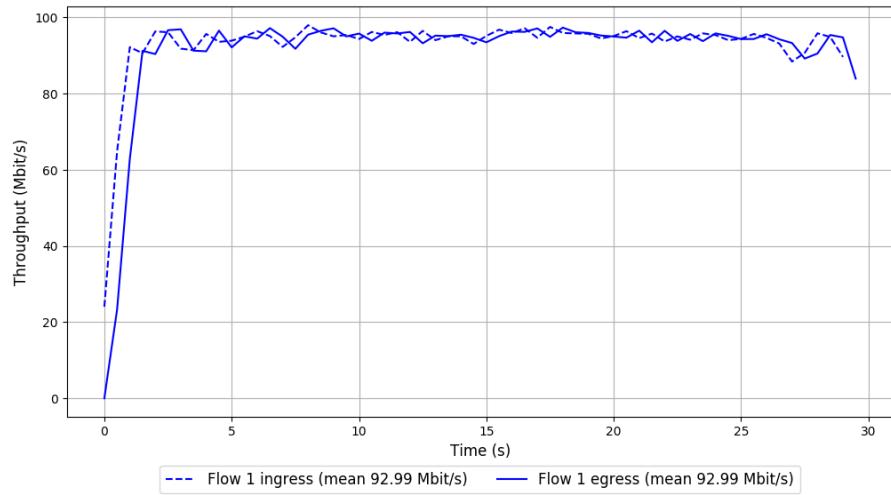


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 13:31:29
End at: 2019-11-24 13:31:59
Local clock offset: 0.184 ms
Remote clock offset: -3.13 ms

# Below is generated by plot.py at 2019-11-24 14:16:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.99 Mbit/s
95th percentile per-packet one-way delay: 20.158 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 92.99 Mbit/s
95th percentile per-packet one-way delay: 20.158 ms
Loss rate: 0.17%
```

Run 4: Report of Muses_DecisionTree — Data Link

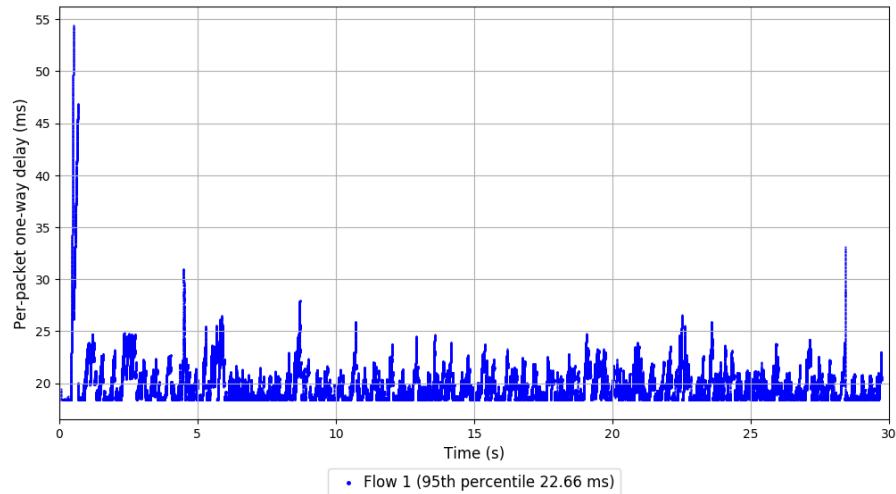
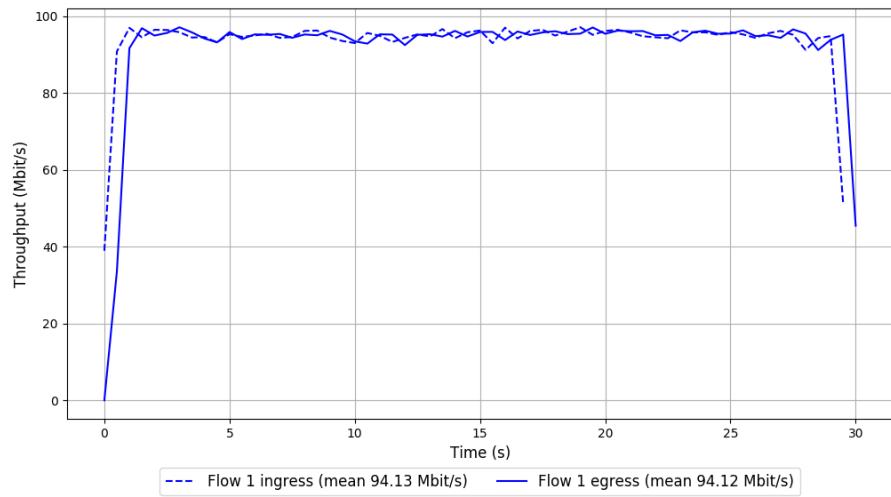


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 13:59:52
End at: 2019-11-24 14:00:22
Local clock offset: 4.044 ms
Remote clock offset: -2.947 ms

# Below is generated by plot.py at 2019-11-24 14:16:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.12 Mbit/s
95th percentile per-packet one-way delay: 22.664 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 94.12 Mbit/s
95th percentile per-packet one-way delay: 22.664 ms
Loss rate: 0.17%
```

Run 5: Report of Muses_DecisionTree — Data Link

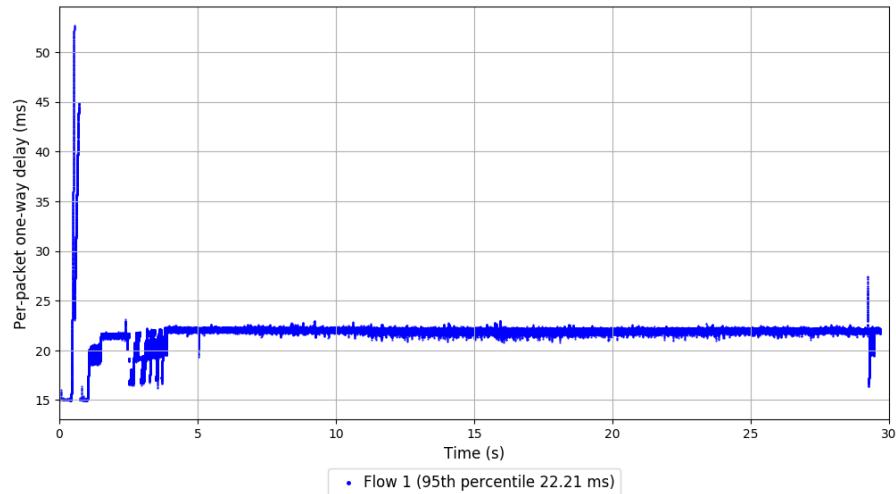
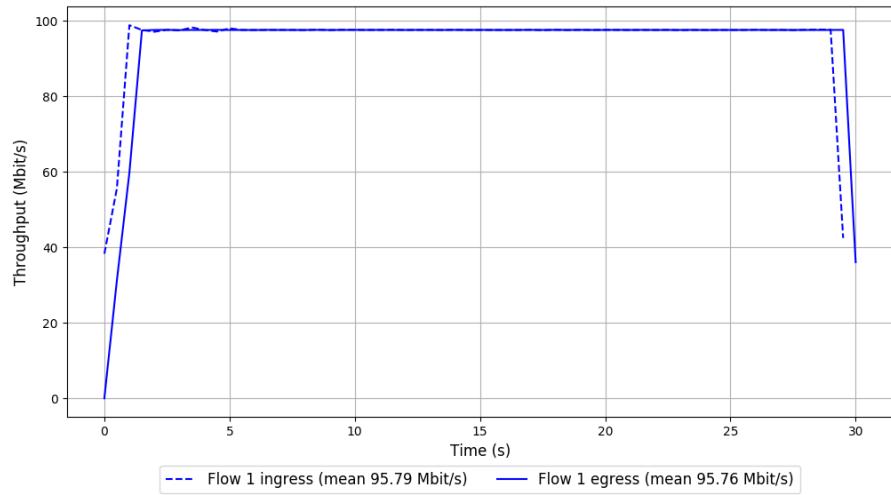


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 11:54:07
End at: 2019-11-24 11:54:37
Local clock offset: 0.564 ms
Remote clock offset: -2.872 ms

# Below is generated by plot.py at 2019-11-24 14:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 22.213 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 22.213 ms
Loss rate: 0.20%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

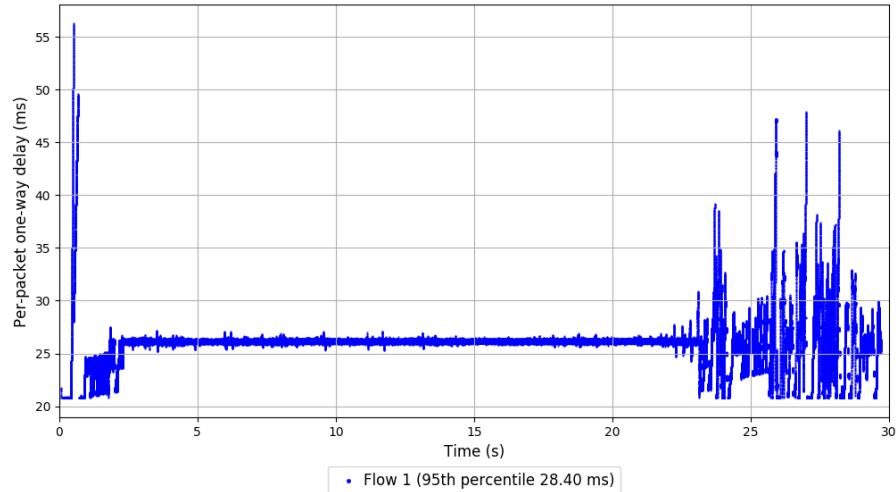
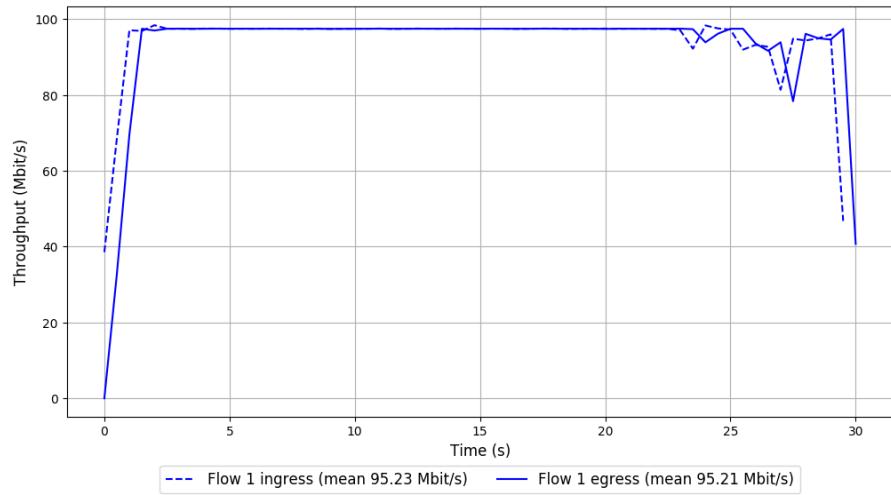


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 12:23:03
End at: 2019-11-24 12:23:33
Local clock offset: 5.231 ms
Remote clock offset: -3.687 ms

# Below is generated by plot.py at 2019-11-24 14:16:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 28.397 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 28.397 ms
Loss rate: 0.17%
```

Run 2: Report of Muses_DecisionTreeH0 — Data Link

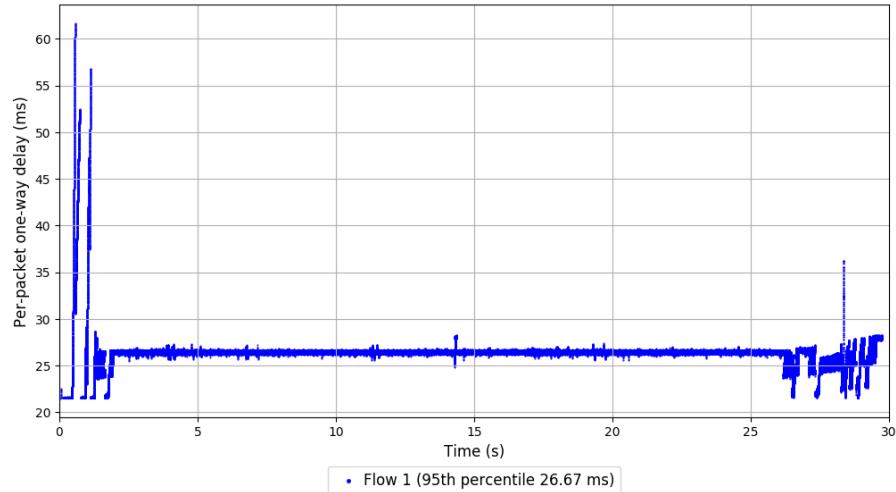
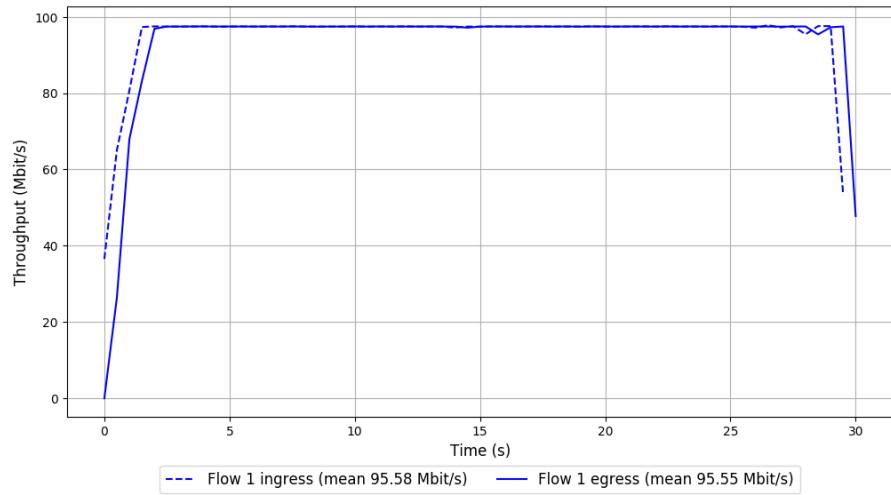


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 12:52:24
End at: 2019-11-24 12:52:54
Local clock offset: 4.043 ms
Remote clock offset: -3.533 ms

# Below is generated by plot.py at 2019-11-24 14:16:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 26.666 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 26.666 ms
Loss rate: 0.19%
```

Run 3: Report of Muses_DecisionTreeH0 — Data Link

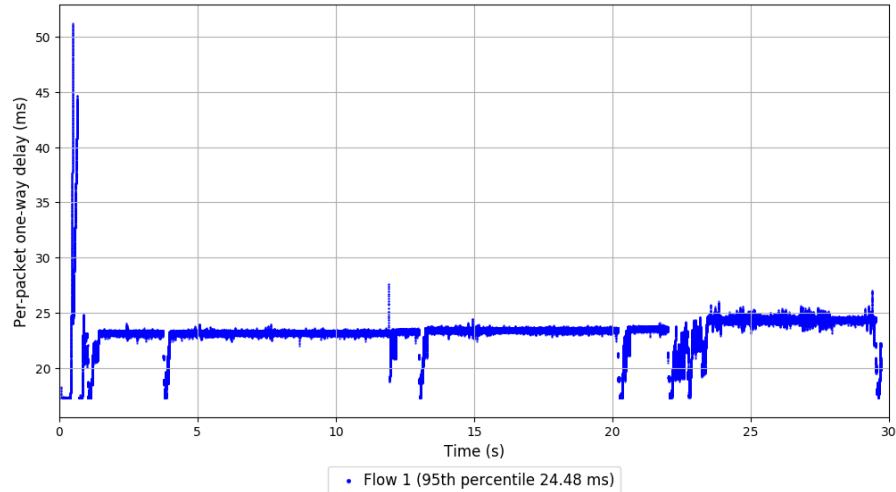
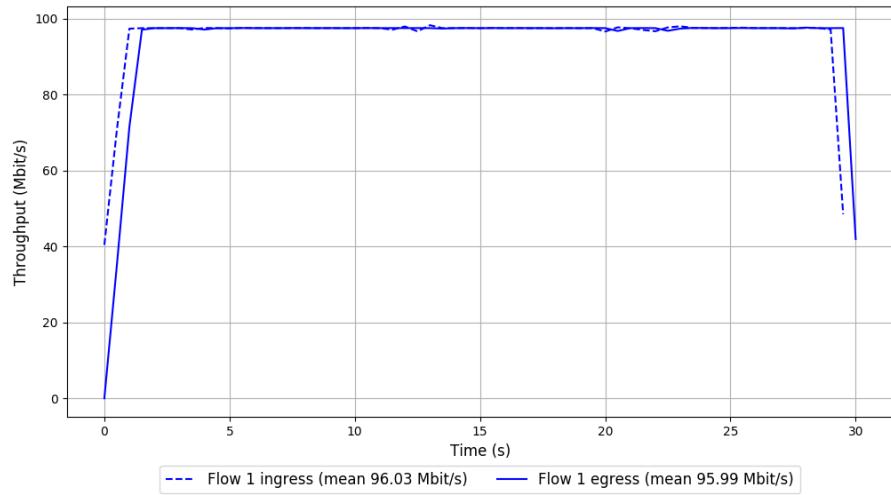


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 13:21:41
End at: 2019-11-24 13:22:11
Local clock offset: 0.801 ms
Remote clock offset: -3.719 ms

# Below is generated by plot.py at 2019-11-24 14:16:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 24.478 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 24.478 ms
Loss rate: 0.20%
```

Run 4: Report of Muses_DecisionTreeH0 — Data Link

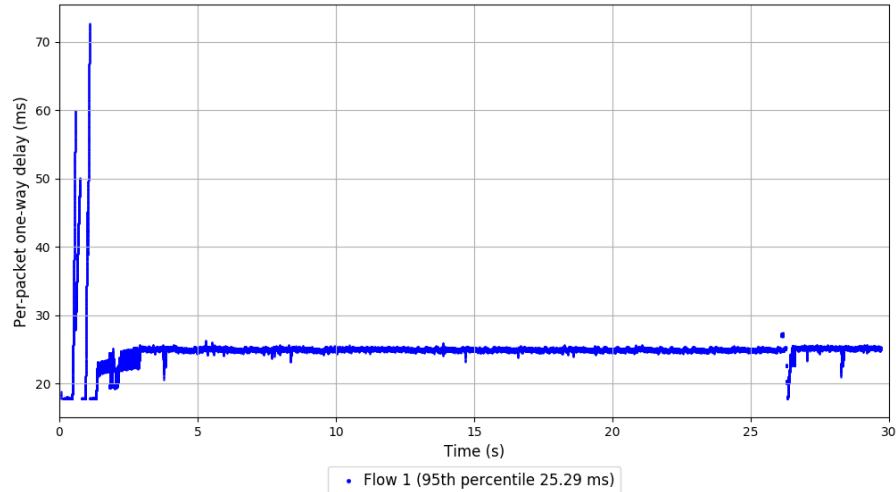
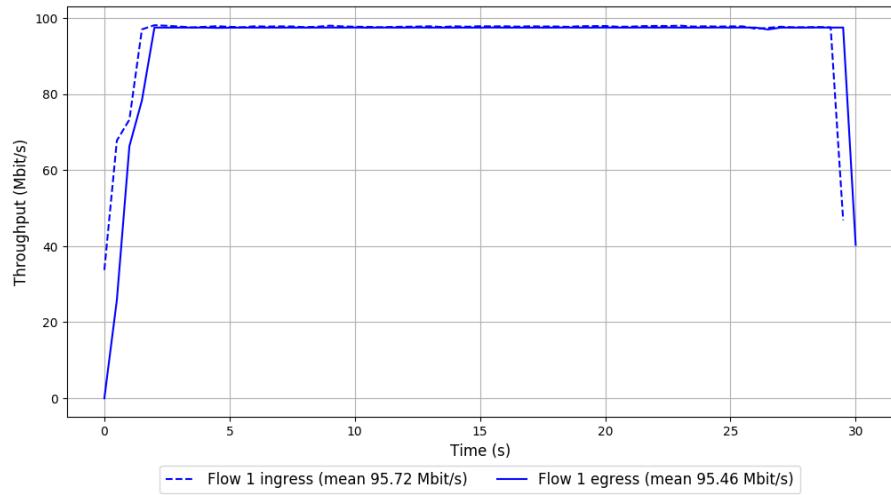


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 13:50:32
End at: 2019-11-24 13:51:02
Local clock offset: 1.257 ms
Remote clock offset: -1.408 ms

# Below is generated by plot.py at 2019-11-24 14:17:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 25.290 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 25.290 ms
Loss rate: 0.45%
```

Run 5: Report of Muses_DecisionTreeH0 — Data Link

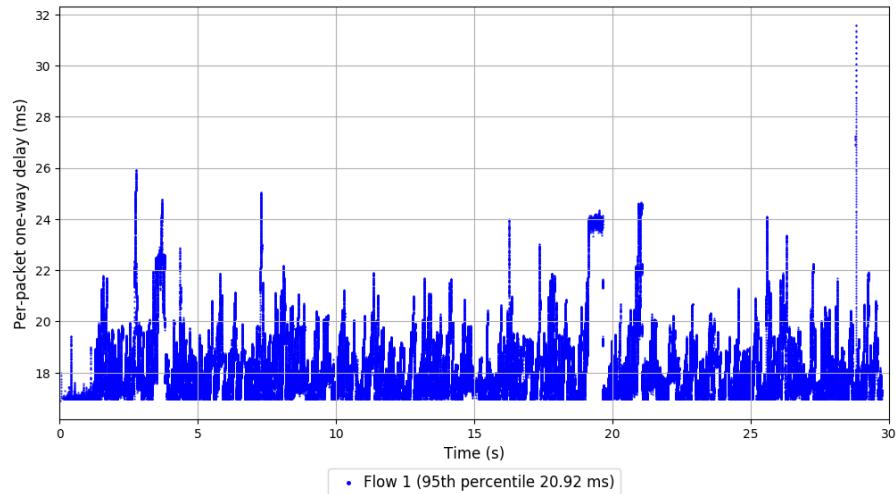
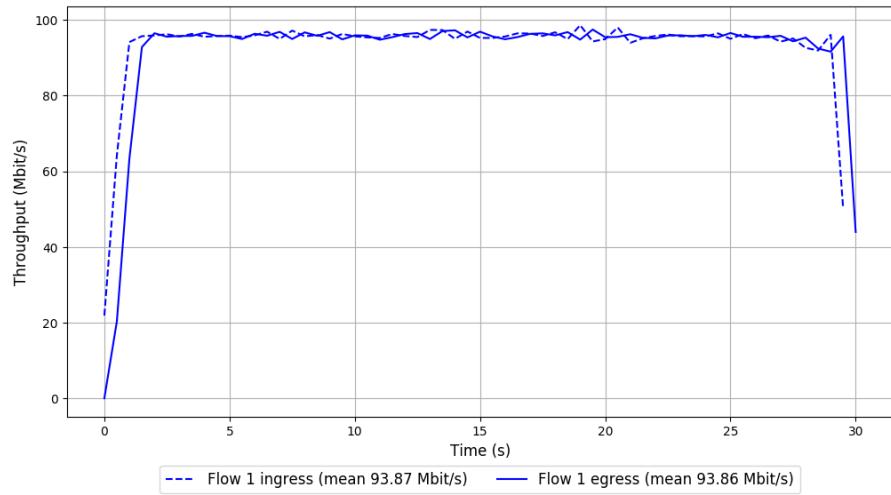


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 11:58:49
End at: 2019-11-24 11:59:19
Local clock offset: 1.942 ms
Remote clock offset: -3.509 ms

# Below is generated by plot.py at 2019-11-24 14:17:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.86 Mbit/s
95th percentile per-packet one-way delay: 20.920 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 93.86 Mbit/s
95th percentile per-packet one-way delay: 20.920 ms
Loss rate: 0.18%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

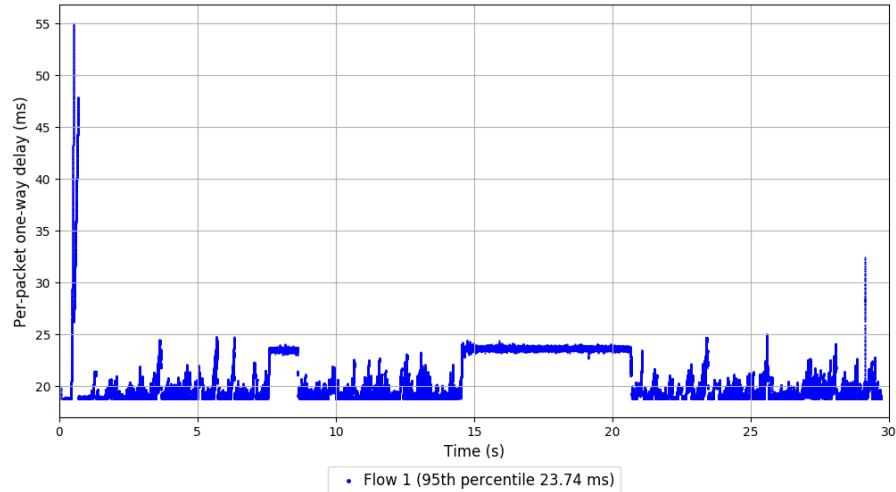
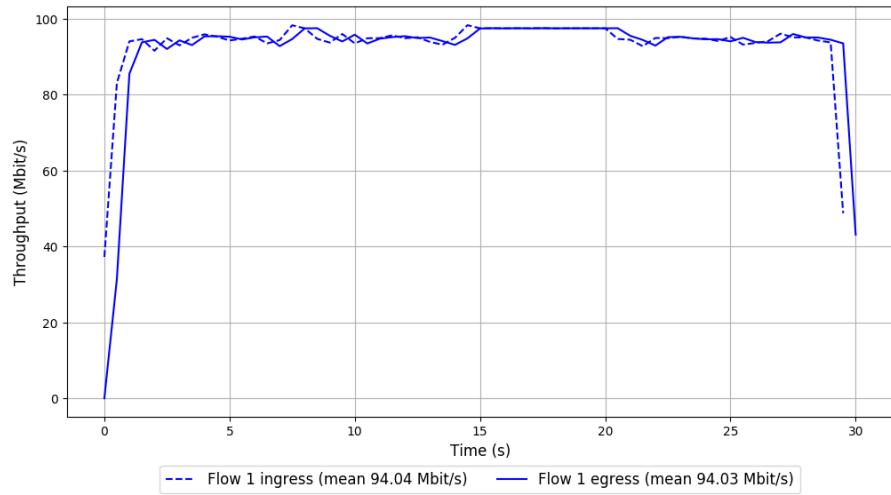


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 12:28:03
End at: 2019-11-24 12:28:33
Local clock offset: 4.767 ms
Remote clock offset: -2.263 ms

# Below is generated by plot.py at 2019-11-24 14:17:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.03 Mbit/s
95th percentile per-packet one-way delay: 23.739 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 94.03 Mbit/s
95th percentile per-packet one-way delay: 23.739 ms
Loss rate: 0.17%
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link

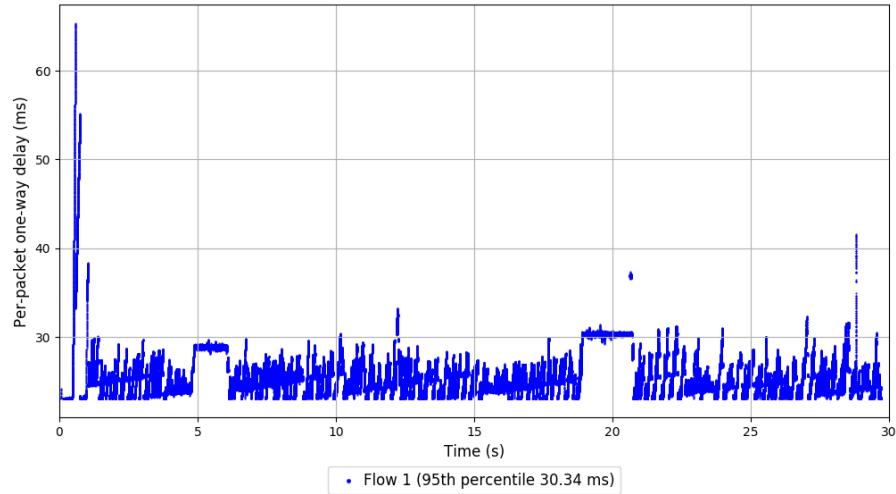
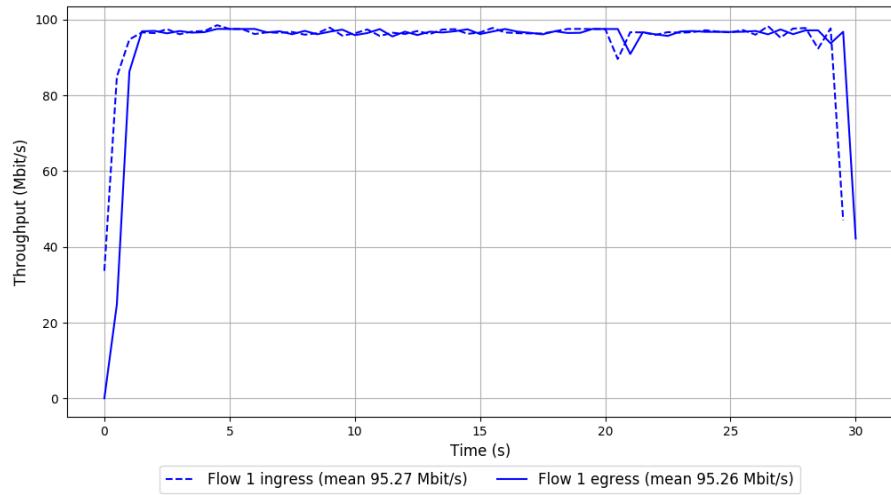


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 12:57:01
End at: 2019-11-24 12:57:31
Local clock offset: 3.977 ms
Remote clock offset: -3.736 ms

# Below is generated by plot.py at 2019-11-24 14:17:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 30.339 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 30.339 ms
Loss rate: 0.19%
```

Run 3: Report of Muses_DecisionTreeR0 — Data Link

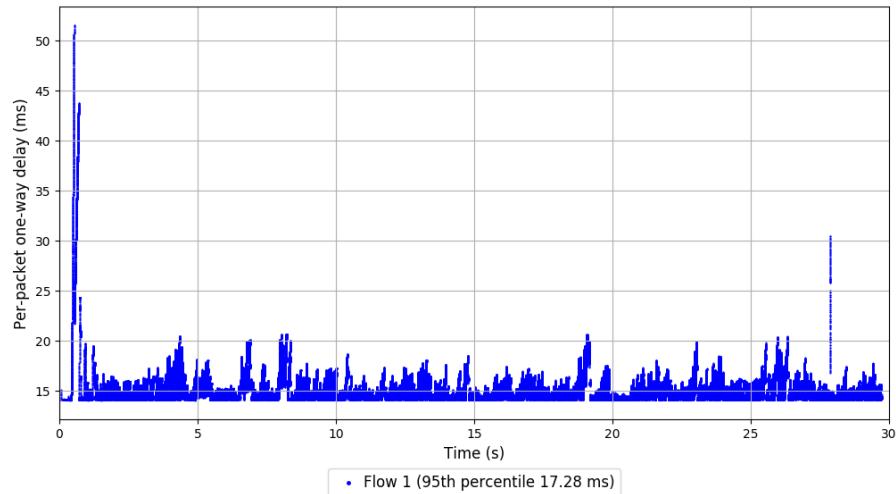
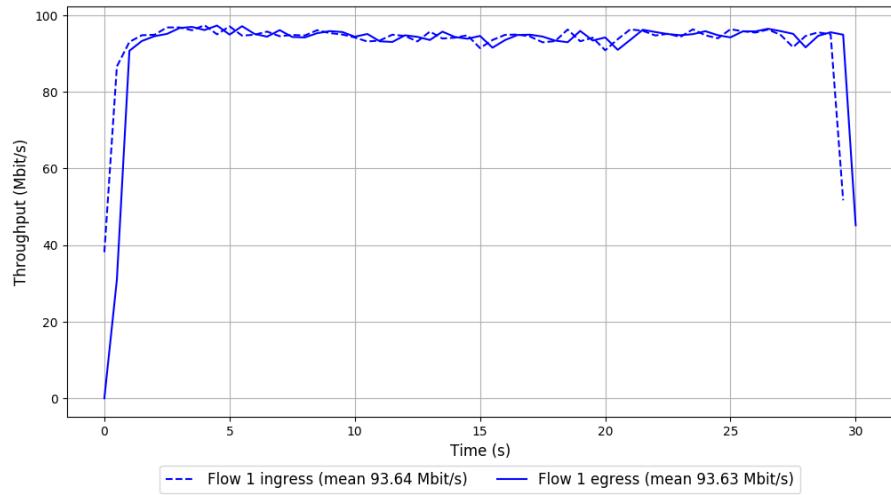


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 13:26:26
End at: 2019-11-24 13:26:56
Local clock offset: -0.655 ms
Remote clock offset: -1.695 ms

# Below is generated by plot.py at 2019-11-24 14:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 17.284 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 17.284 ms
Loss rate: 0.16%
```

Run 4: Report of Muses_DecisionTreeR0 — Data Link

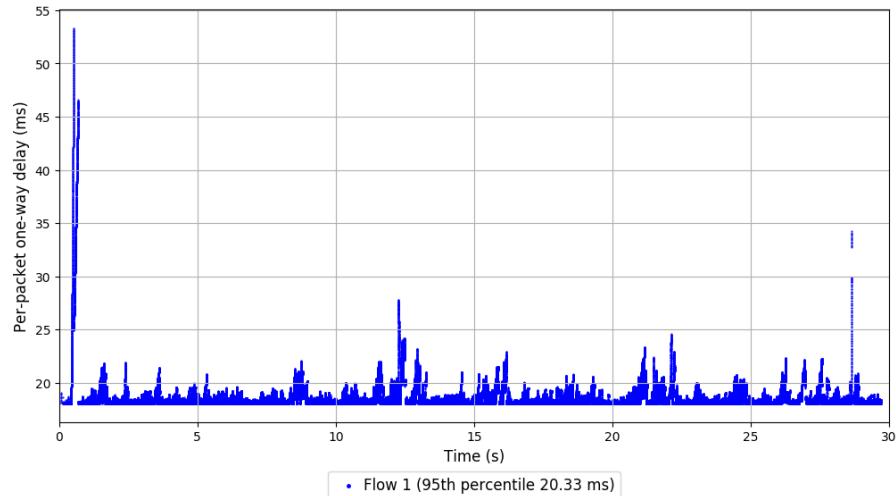
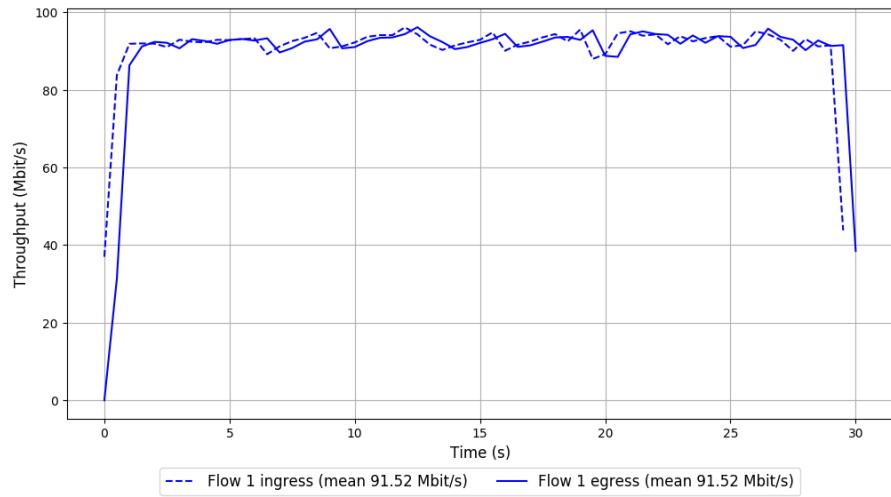


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 13:55:05
End at: 2019-11-24 13:55:35
Local clock offset: 1.272 ms
Remote clock offset: -5.099 ms

# Below is generated by plot.py at 2019-11-24 14:17:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.52 Mbit/s
95th percentile per-packet one-way delay: 20.330 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 91.52 Mbit/s
95th percentile per-packet one-way delay: 20.330 ms
Loss rate: 0.16%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link

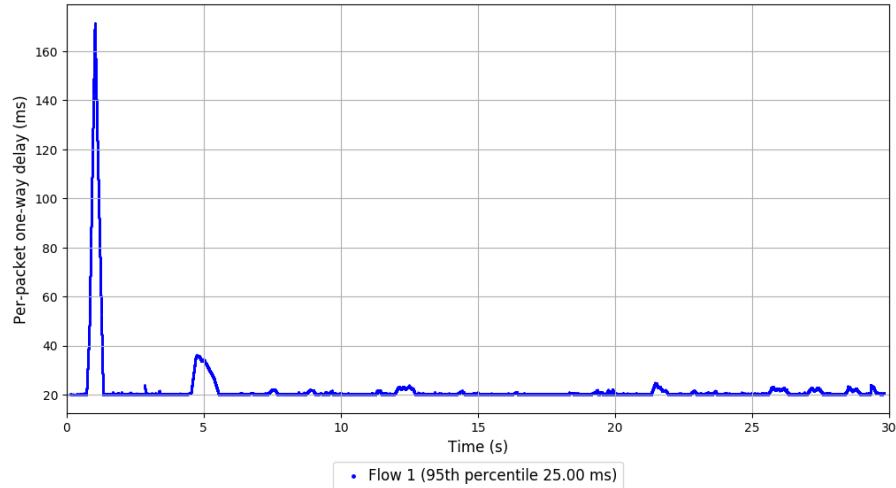
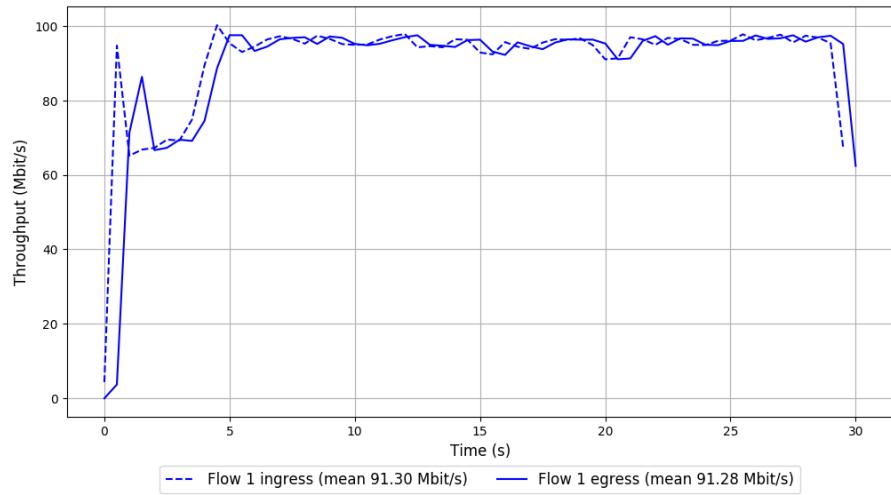


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-11-24 11:45:18
End at: 2019-11-24 11:45:48
Local clock offset: 2.354 ms
Remote clock offset: -5.568 ms

# Below is generated by plot.py at 2019-11-24 14:17:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 25.001 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 25.001 ms
Loss rate: 0.18%
```

Run 1: Report of PCC-Allegro — Data Link

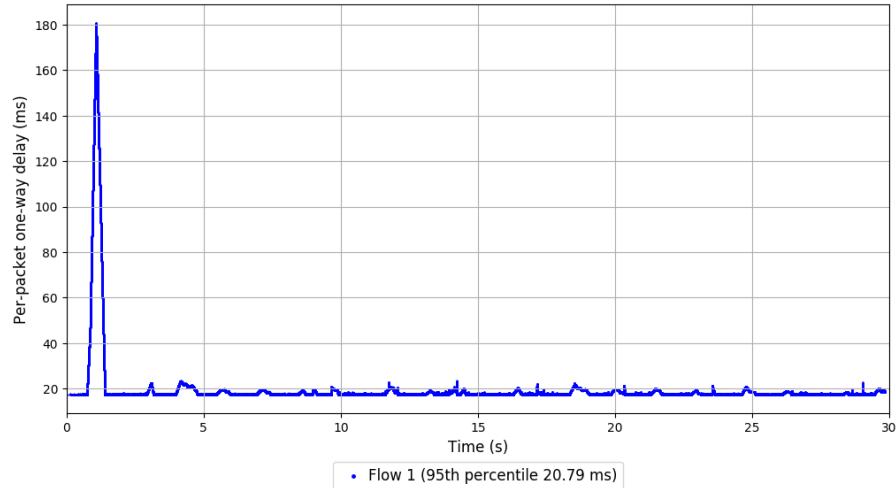
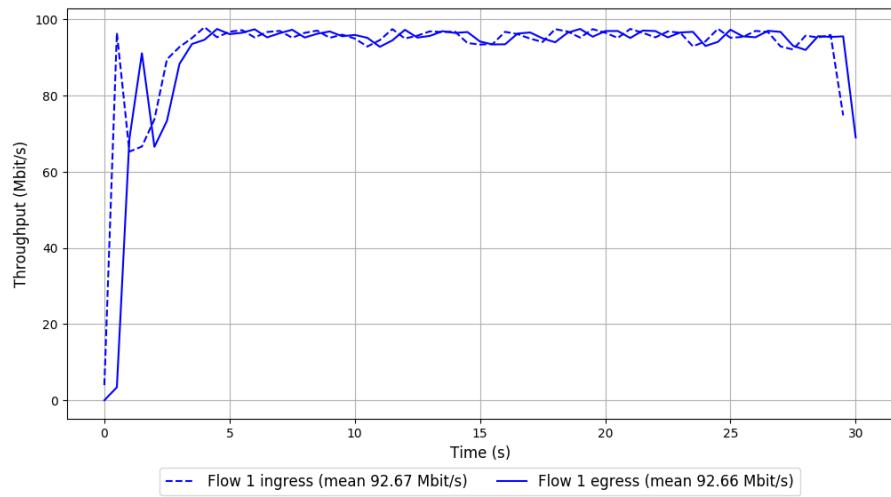


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-11-24 12:14:34
End at: 2019-11-24 12:15:04
Local clock offset: 3.541 ms
Remote clock offset: -2.277 ms

# Below is generated by plot.py at 2019-11-24 14:17:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.66 Mbit/s
95th percentile per-packet one-way delay: 20.785 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 92.66 Mbit/s
95th percentile per-packet one-way delay: 20.785 ms
Loss rate: 0.17%
```

Run 2: Report of PCC-Allegro — Data Link

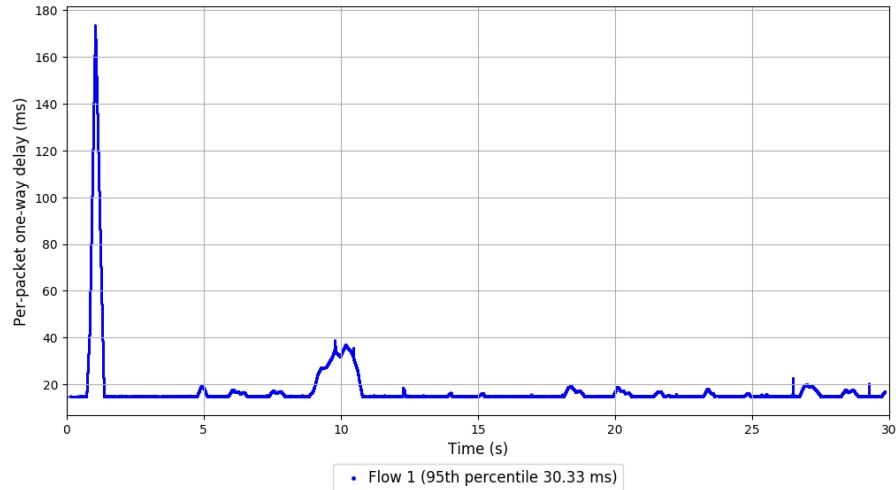
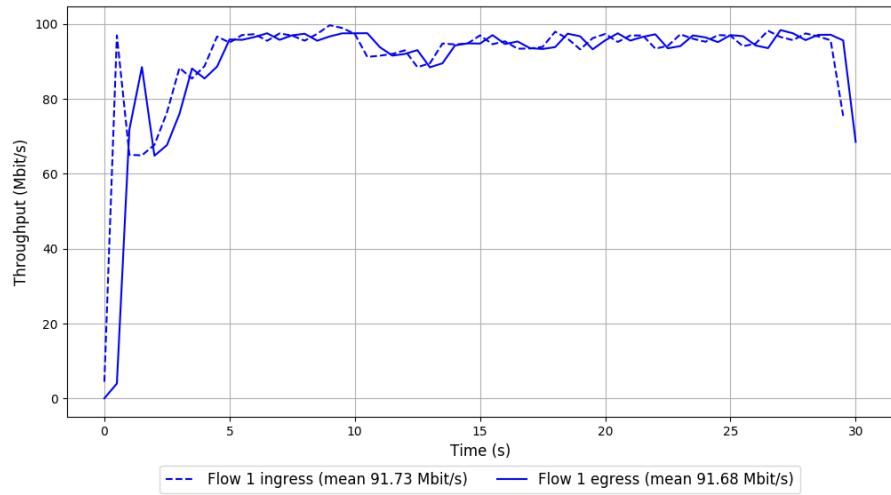


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-11-24 12:44:06
End at: 2019-11-24 12:44:36
Local clock offset: 3.412 ms
Remote clock offset: 0.335 ms

# Below is generated by plot.py at 2019-11-24 14:18:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 30.331 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 30.331 ms
Loss rate: 0.21%
```

Run 3: Report of PCC-Allegro — Data Link

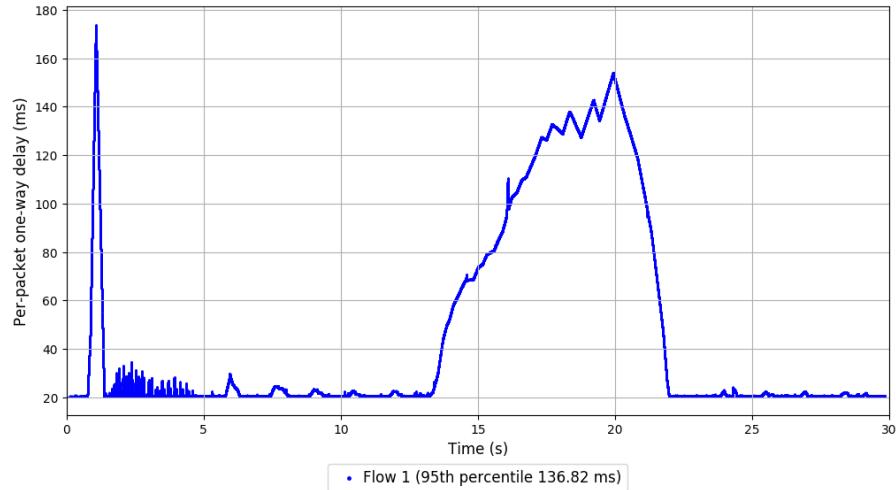
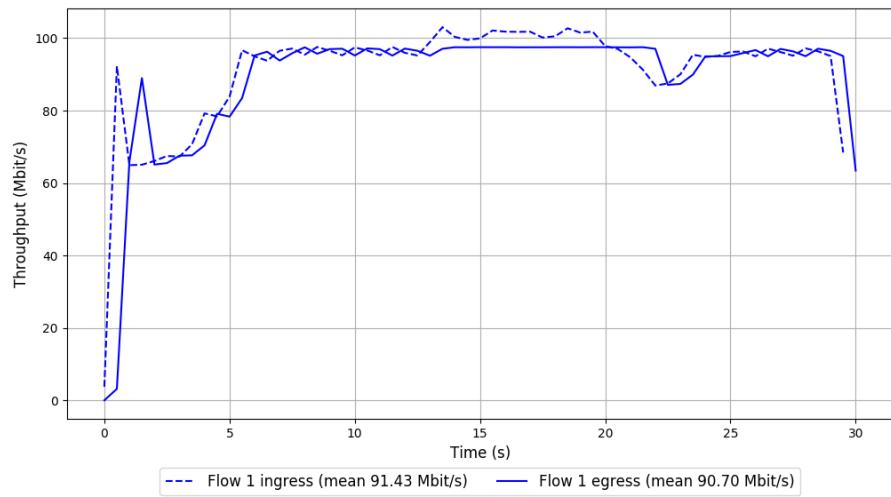


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-11-24 13:13:08
End at: 2019-11-24 13:13:38
Local clock offset: 4.486 ms
Remote clock offset: -3.701 ms

# Below is generated by plot.py at 2019-11-24 14:18:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.70 Mbit/s
95th percentile per-packet one-way delay: 136.819 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 90.70 Mbit/s
95th percentile per-packet one-way delay: 136.819 ms
Loss rate: 0.95%
```

Run 4: Report of PCC-Allegro — Data Link

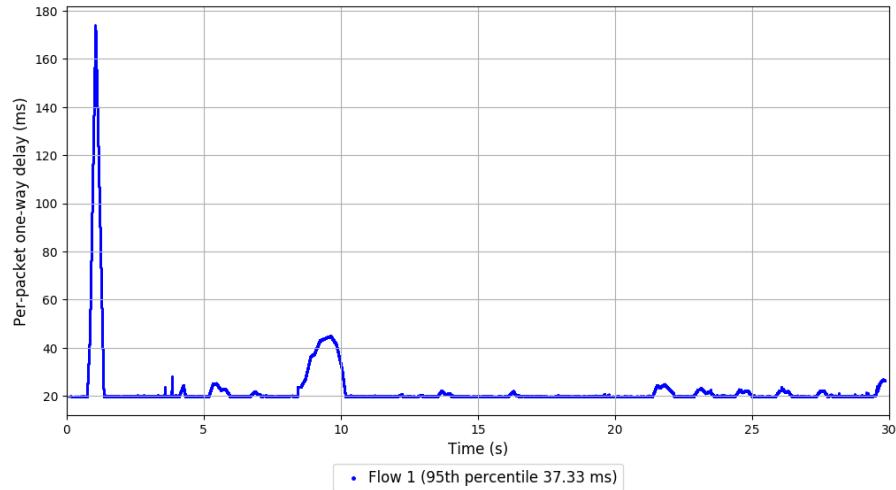
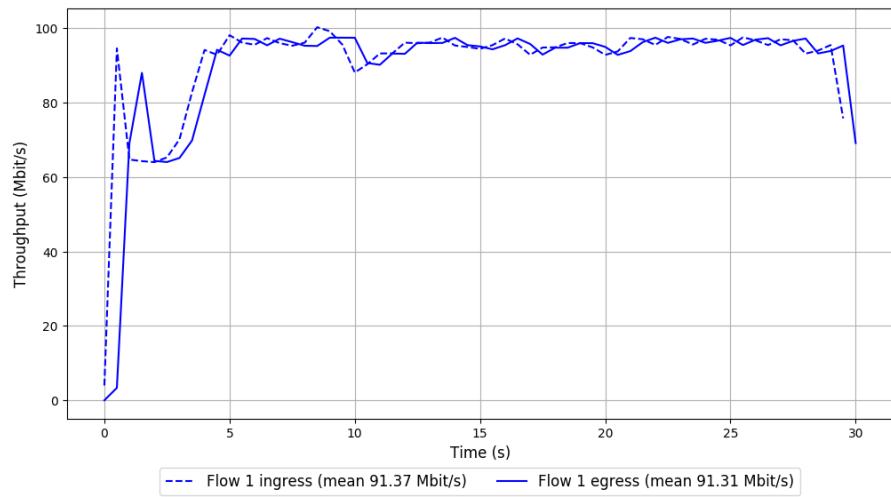


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-11-24 13:42:26
End at: 2019-11-24 13:42:56
Local clock offset: 4.161 ms
Remote clock offset: -2.969 ms

# Below is generated by plot.py at 2019-11-24 14:18:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 37.327 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 37.327 ms
Loss rate: 0.22%
```

Run 5: Report of PCC-Allegro — Data Link

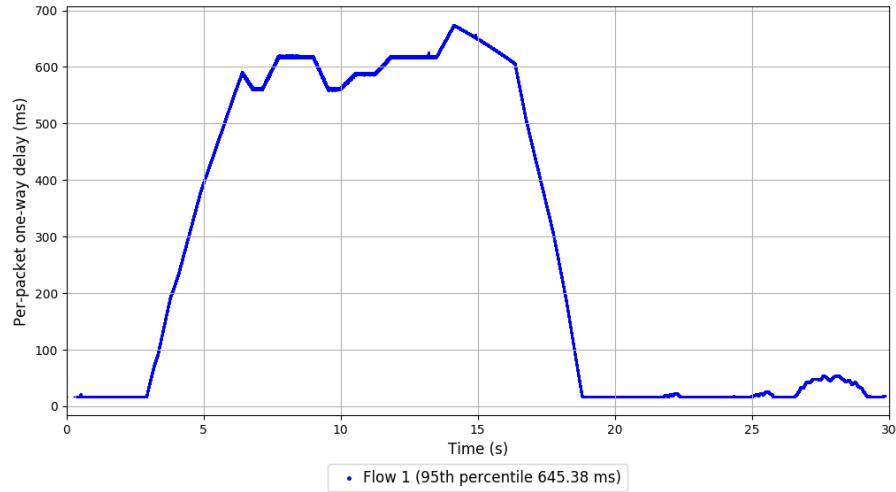
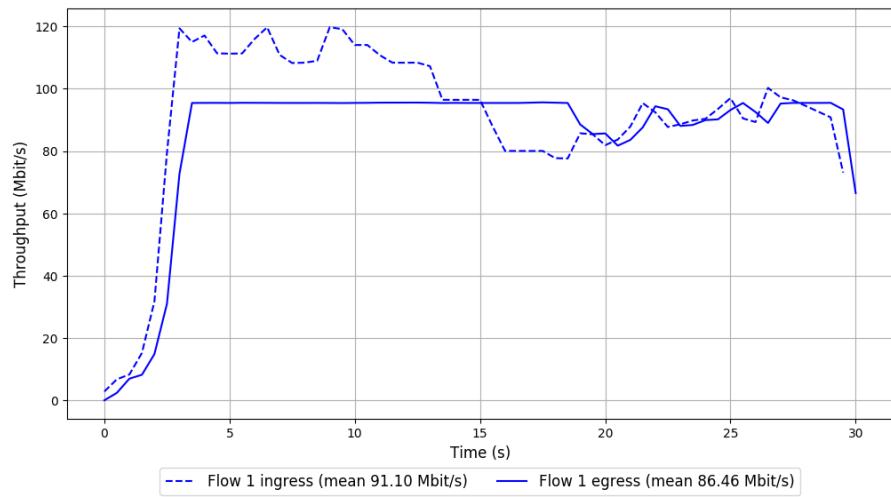


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-11-24 11:42:53
End at: 2019-11-24 11:43:24
Local clock offset: -0.2 ms
Remote clock offset: -4.333 ms

# Below is generated by plot.py at 2019-11-24 14:19:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.46 Mbit/s
95th percentile per-packet one-way delay: 645.384 ms
Loss rate: 5.24%
-- Flow 1:
Average throughput: 86.46 Mbit/s
95th percentile per-packet one-way delay: 645.384 ms
Loss rate: 5.24%
```

Run 1: Report of PCC-Expr — Data Link

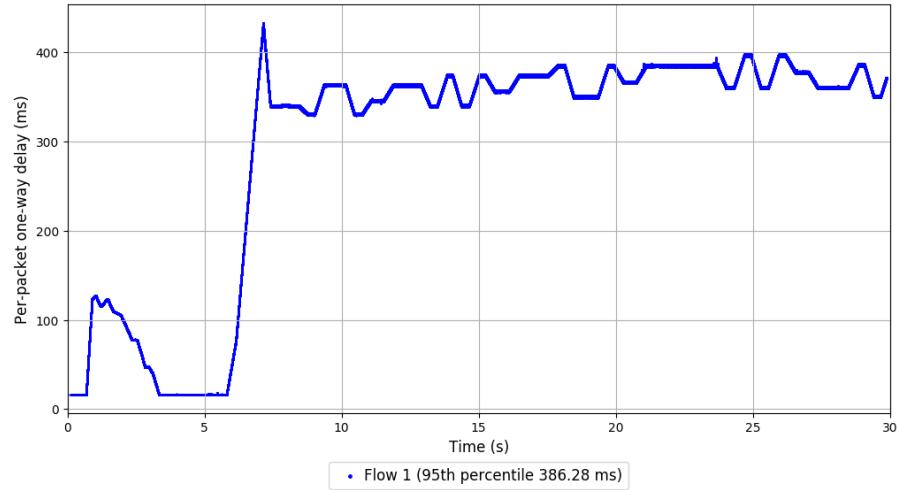
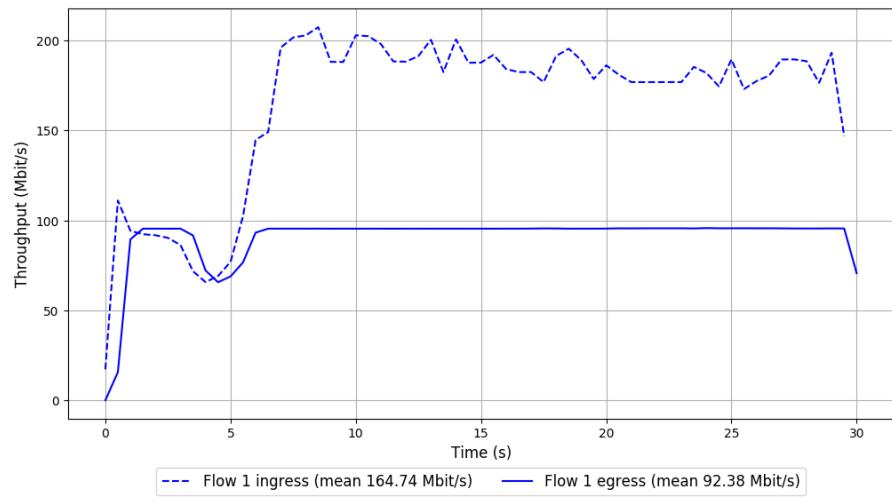


Run 2: Statistics of PCC-Expr

```
Start at: 2019-11-24 12:12:11
End at: 2019-11-24 12:12:41
Local clock offset: 0.917 ms
Remote clock offset: -3.864 ms

# Below is generated by plot.py at 2019-11-24 14:19:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.38 Mbit/s
95th percentile per-packet one-way delay: 386.280 ms
Loss rate: 44.01%
-- Flow 1:
Average throughput: 92.38 Mbit/s
95th percentile per-packet one-way delay: 386.280 ms
Loss rate: 44.01%
```

Run 2: Report of PCC-Expr — Data Link

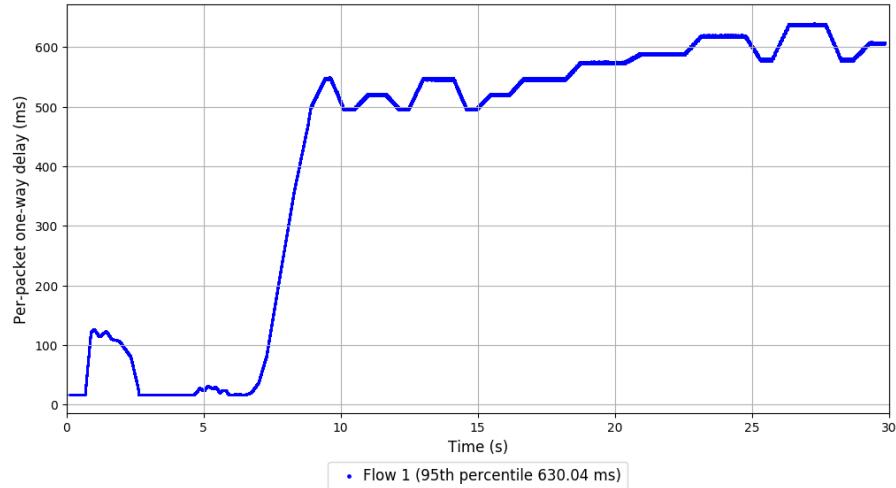
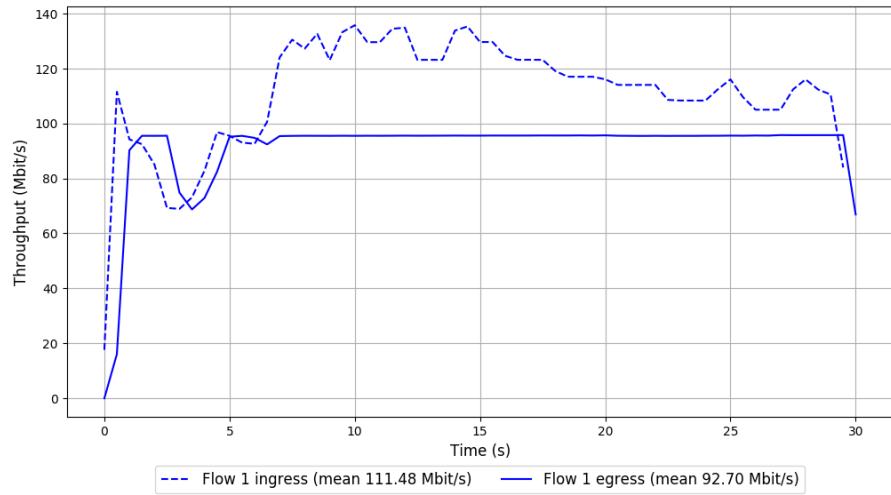


Run 3: Statistics of PCC-Expr

```
Start at: 2019-11-24 12:41:45
End at: 2019-11-24 12:42:15
Local clock offset: 4.67 ms
Remote clock offset: -0.485 ms

# Below is generated by plot.py at 2019-11-24 14:19:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 630.043 ms
Loss rate: 16.98%
-- Flow 1:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 630.043 ms
Loss rate: 16.98%
```

Run 3: Report of PCC-Expr — Data Link

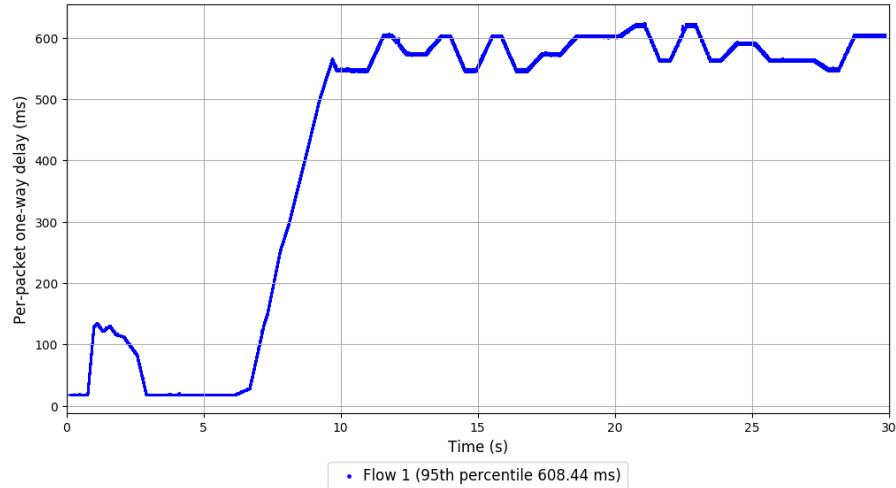
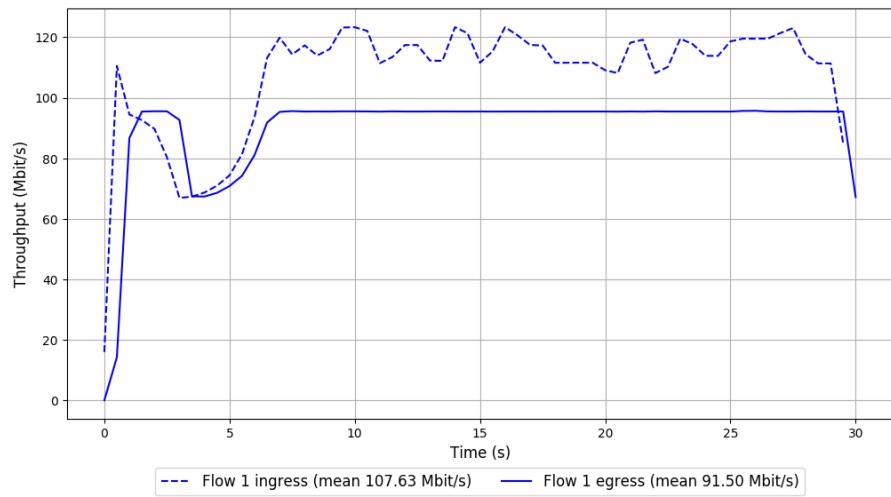


Run 4: Statistics of PCC-Expr

```
Start at: 2019-11-24 13:10:33
End at: 2019-11-24 13:11:03
Local clock offset: 2.149 ms
Remote clock offset: -3.85 ms

# Below is generated by plot.py at 2019-11-24 14:19:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 608.440 ms
Loss rate: 15.12%
-- Flow 1:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 608.440 ms
Loss rate: 15.12%
```

Run 4: Report of PCC-Expr — Data Link

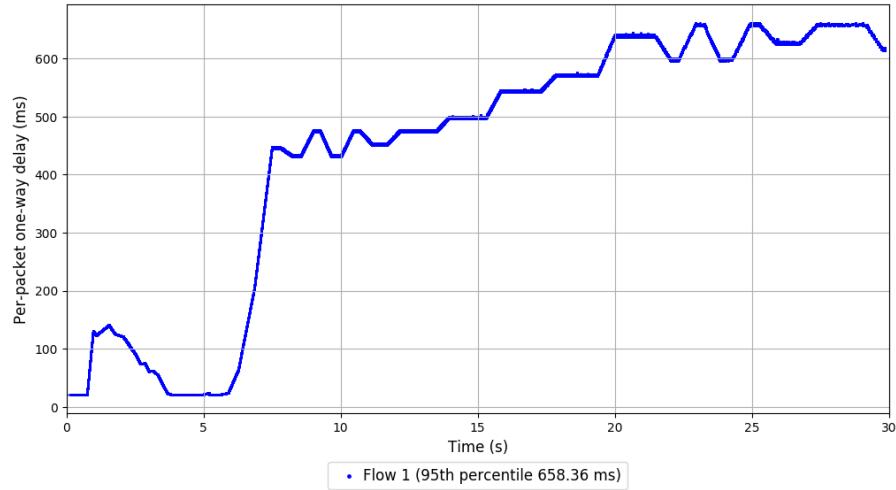
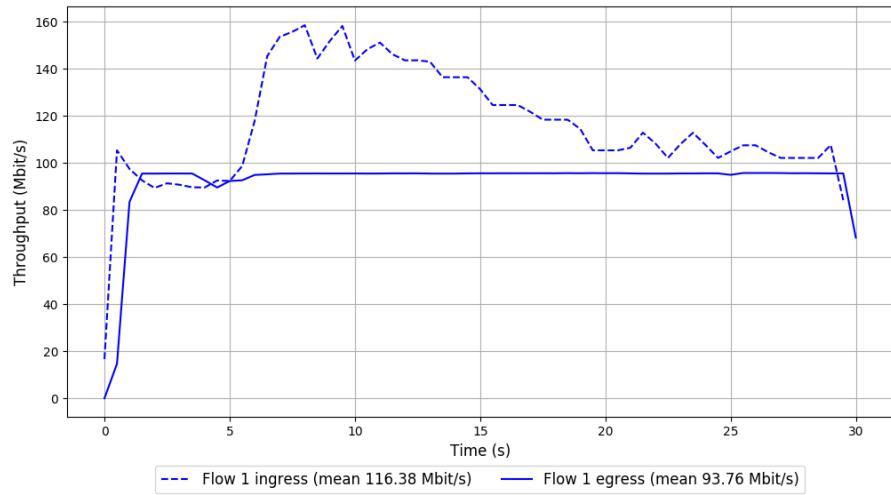


Run 5: Statistics of PCC-Expr

```
Start at: 2019-11-24 13:40:04
End at: 2019-11-24 13:40:34
Local clock offset: 3.025 ms
Remote clock offset: -4.695 ms

# Below is generated by plot.py at 2019-11-24 14:20:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 658.358 ms
Loss rate: 19.56%
-- Flow 1:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 658.358 ms
Loss rate: 19.56%
```

Run 5: Report of PCC-Expr — Data Link

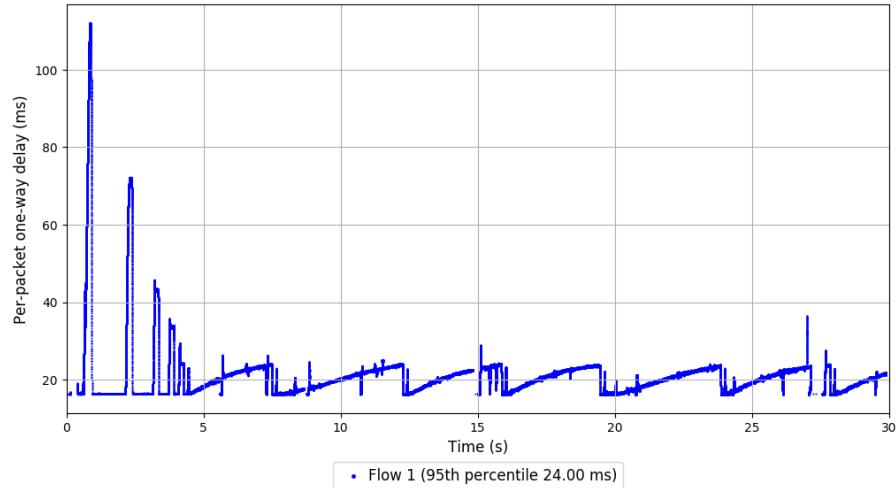
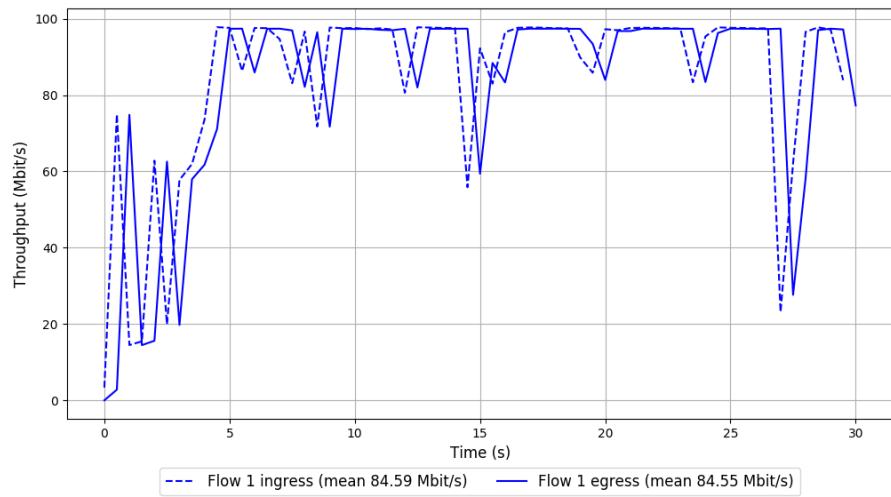


Run 1: Statistics of QUIC Cubic

```
Start at: 2019-11-24 11:52:42
End at: 2019-11-24 11:53:12
Local clock offset: 0.971 ms
Remote clock offset: -3.535 ms

# Below is generated by plot.py at 2019-11-24 14:20:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.55 Mbit/s
95th percentile per-packet one-way delay: 24.002 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 84.55 Mbit/s
95th percentile per-packet one-way delay: 24.002 ms
Loss rate: 0.21%
```

Run 1: Report of QUIC Cubic — Data Link

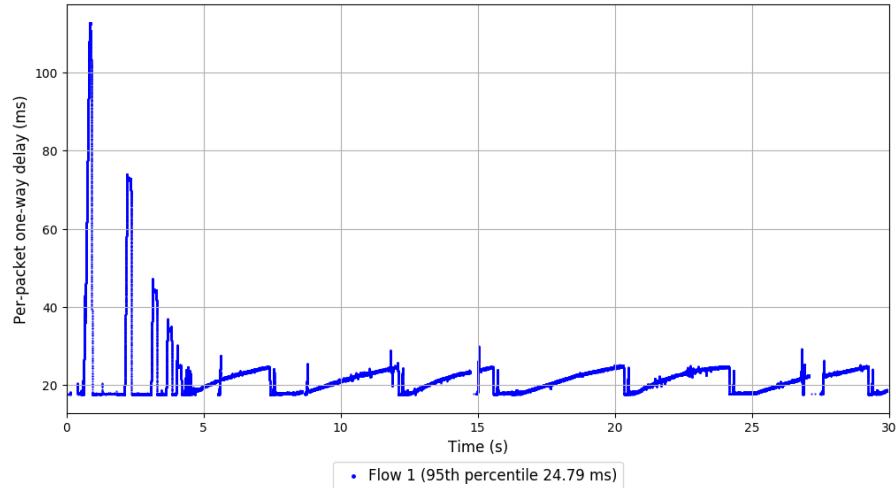
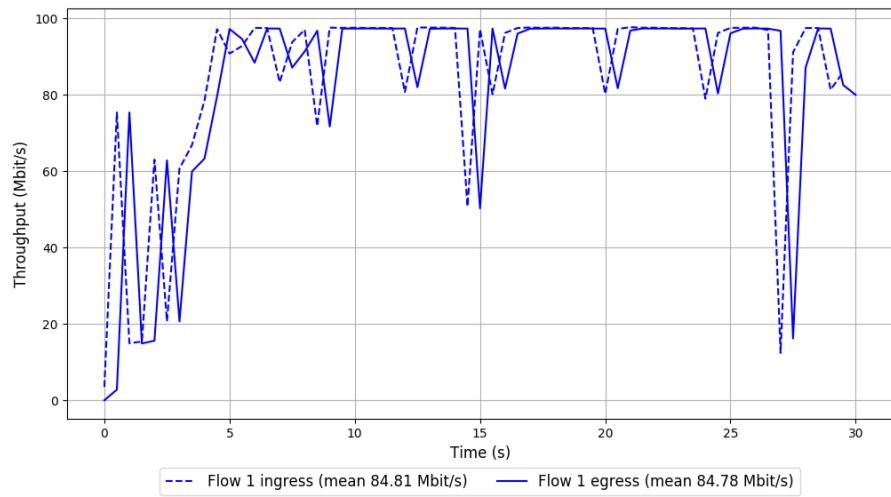


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-11-24 12:21:51
End at: 2019-11-24 12:22:21
Local clock offset: 2.556 ms
Remote clock offset: -3.471 ms

# Below is generated by plot.py at 2019-11-24 14:20:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.78 Mbit/s
95th percentile per-packet one-way delay: 24.786 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 84.78 Mbit/s
95th percentile per-packet one-way delay: 24.786 ms
Loss rate: 0.19%
```

Run 2: Report of QUIC Cubic — Data Link

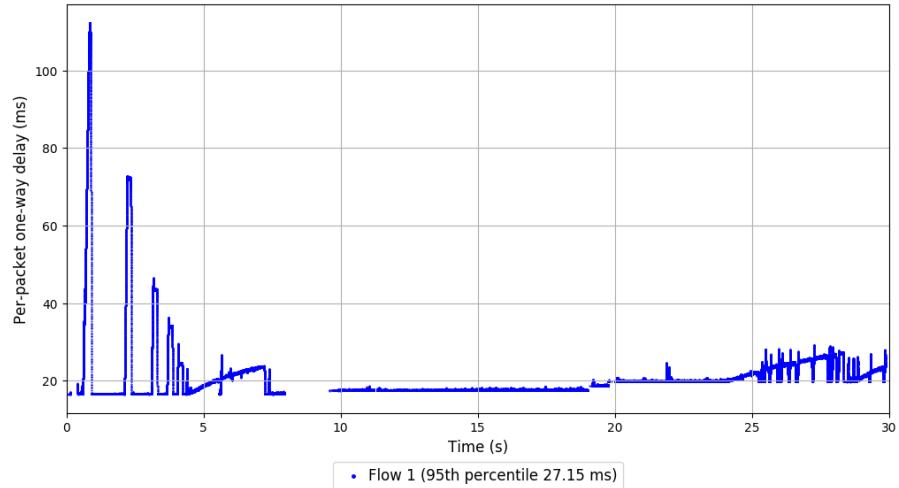
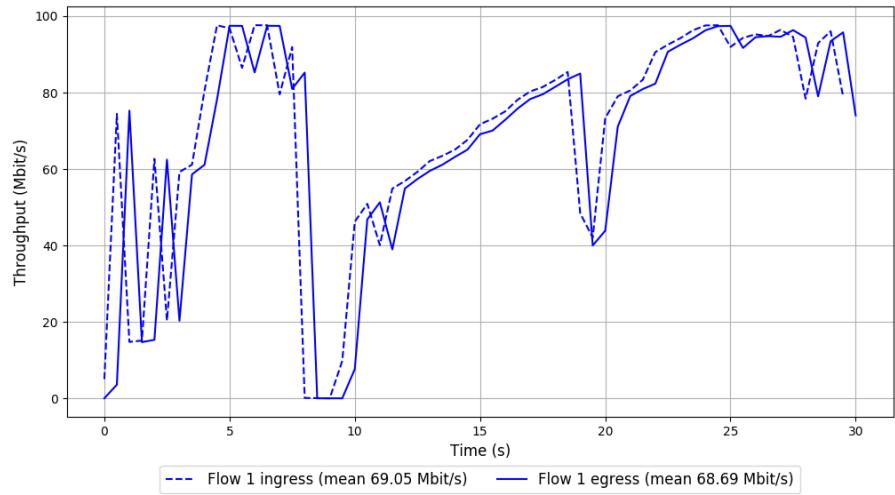


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-11-24 12:51:15
End at: 2019-11-24 12:51:45
Local clock offset: 4.049 ms
Remote clock offset: -0.519 ms

# Below is generated by plot.py at 2019-11-24 14:20:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.69 Mbit/s
95th percentile per-packet one-way delay: 27.150 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 68.69 Mbit/s
95th percentile per-packet one-way delay: 27.150 ms
Loss rate: 0.68%
```

Run 3: Report of QUIC Cubic — Data Link

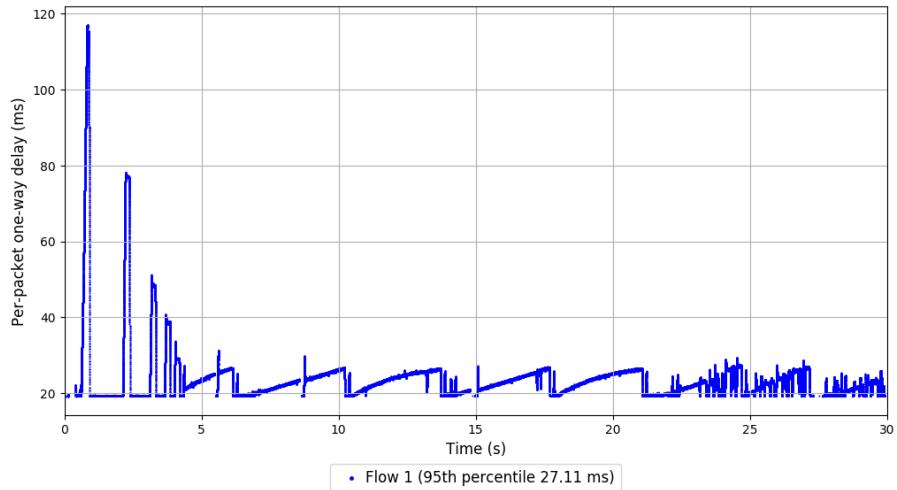
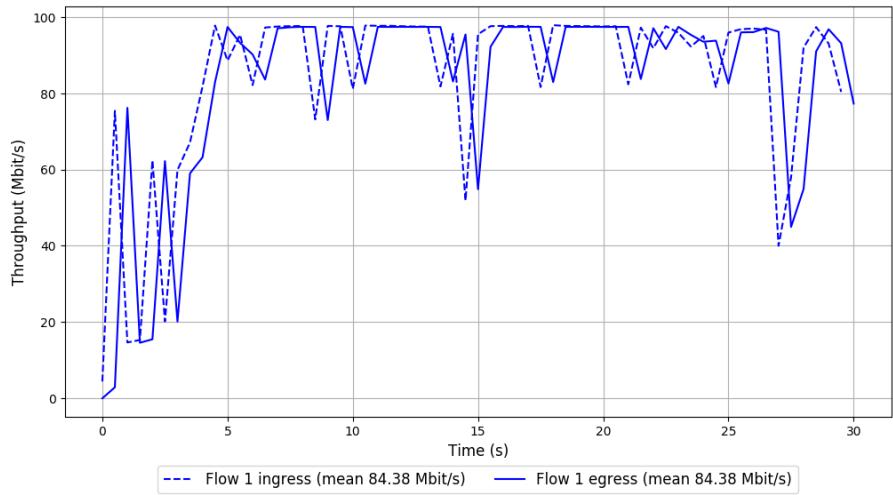


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-11-24 13:20:29
End at: 2019-11-24 13:20:59
Local clock offset: 3.539 ms
Remote clock offset: -2.852 ms

# Below is generated by plot.py at 2019-11-24 14:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.38 Mbit/s
95th percentile per-packet one-way delay: 27.115 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 84.38 Mbit/s
95th percentile per-packet one-way delay: 27.115 ms
Loss rate: 0.16%
```

Run 4: Report of QUIC Cubic — Data Link

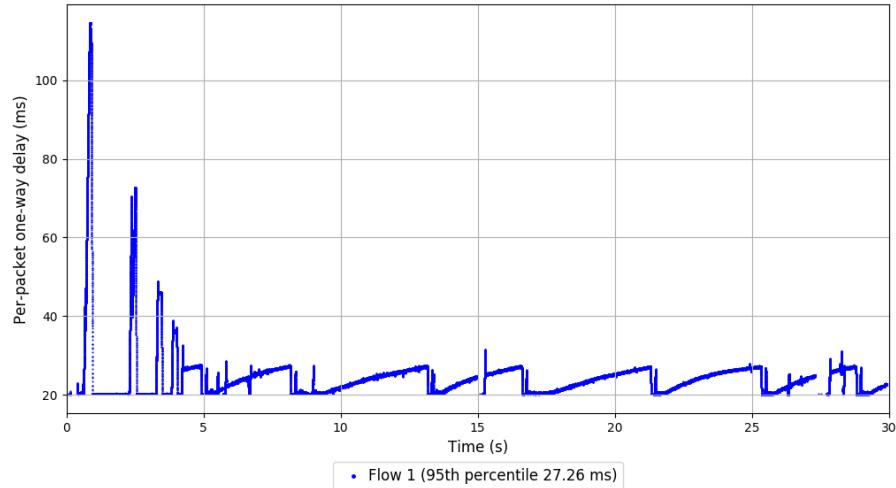
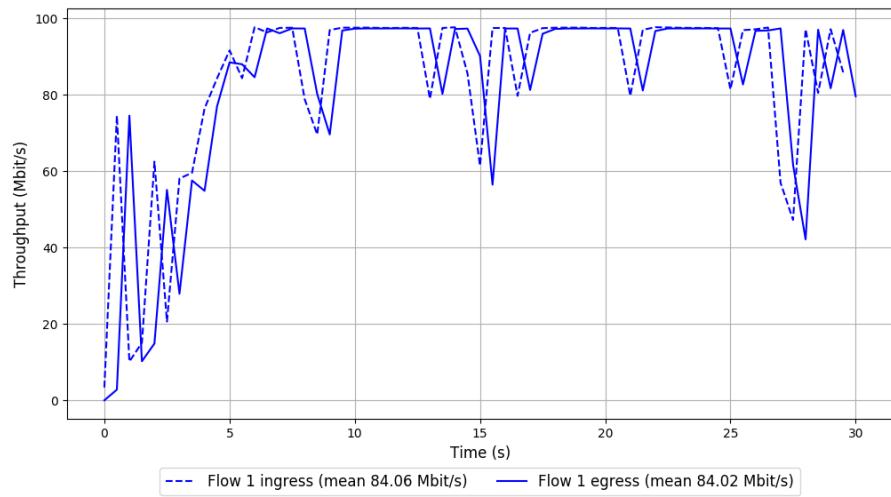


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-11-24 13:49:23
End at: 2019-11-24 13:49:53
Local clock offset: 1.117 ms
Remote clock offset: -3.749 ms

# Below is generated by plot.py at 2019-11-24 14:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.02 Mbit/s
95th percentile per-packet one-way delay: 27.262 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 84.02 Mbit/s
95th percentile per-packet one-way delay: 27.262 ms
Loss rate: 0.22%
```

Run 5: Report of QUIC Cubic — Data Link

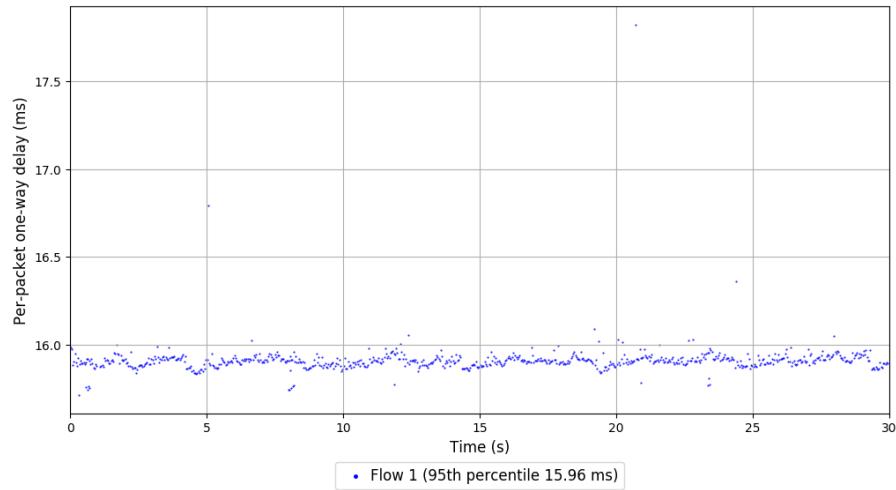
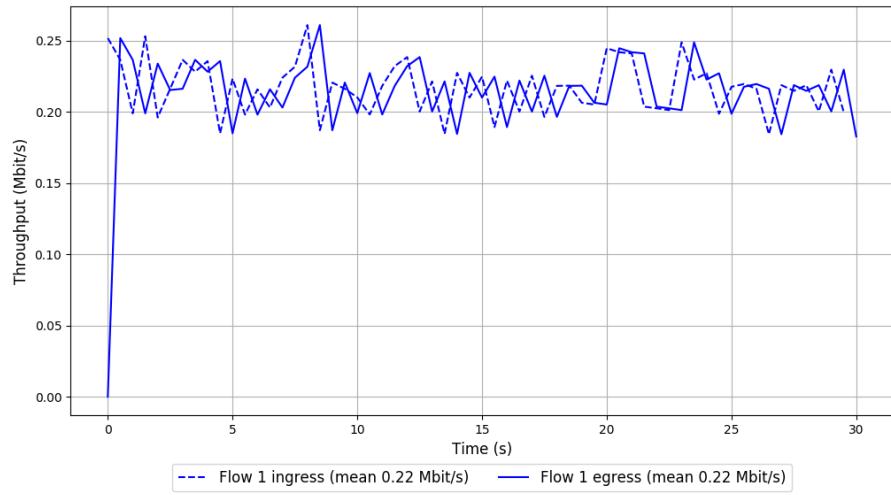


Run 1: Statistics of SCReAM

```
Start at: 2019-11-24 12:04:56
End at: 2019-11-24 12:05:26
Local clock offset: 0.344 ms
Remote clock offset: -4.06 ms

# Below is generated by plot.py at 2019-11-24 14:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 15.965 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 15.965 ms
Loss rate: 0.13%
```

Run 1: Report of SCReAM — Data Link

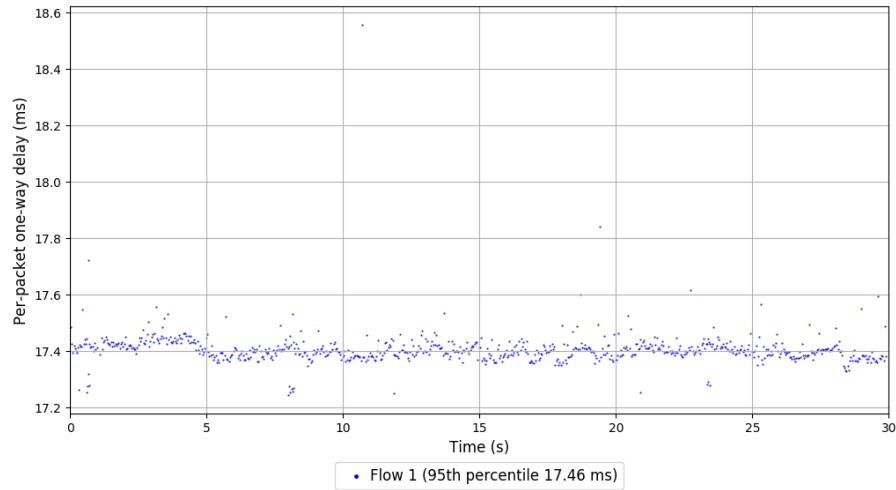
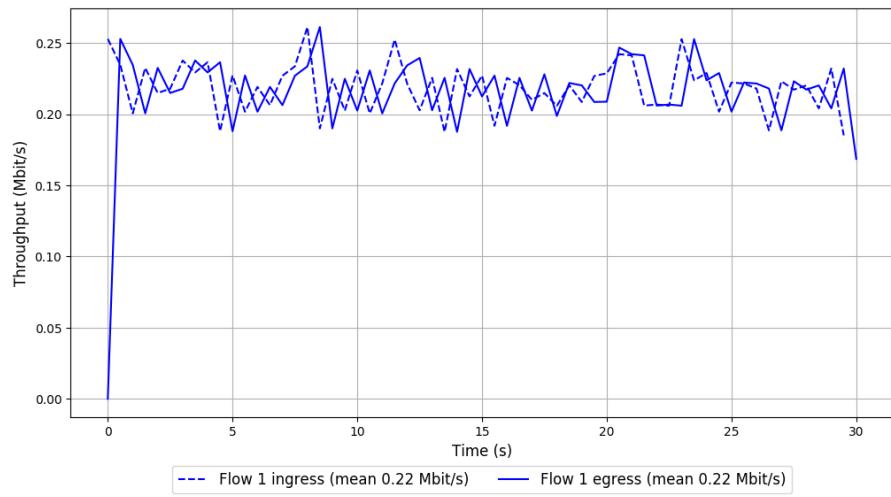


Run 2: Statistics of SCReAM

```
Start at: 2019-11-24 12:34:18
End at: 2019-11-24 12:34:48
Local clock offset: 2.246 ms
Remote clock offset: -3.195 ms

# Below is generated by plot.py at 2019-11-24 14:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.462 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.462 ms
Loss rate: 0.13%
```

Run 2: Report of SCReAM — Data Link

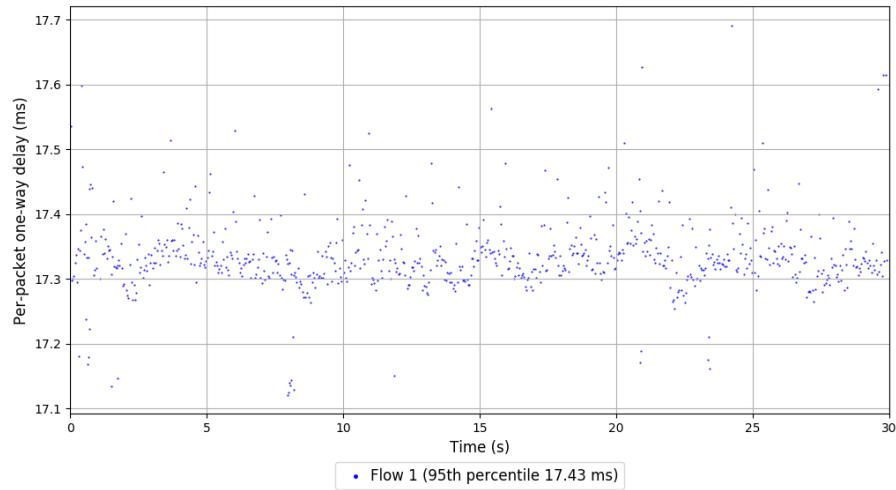
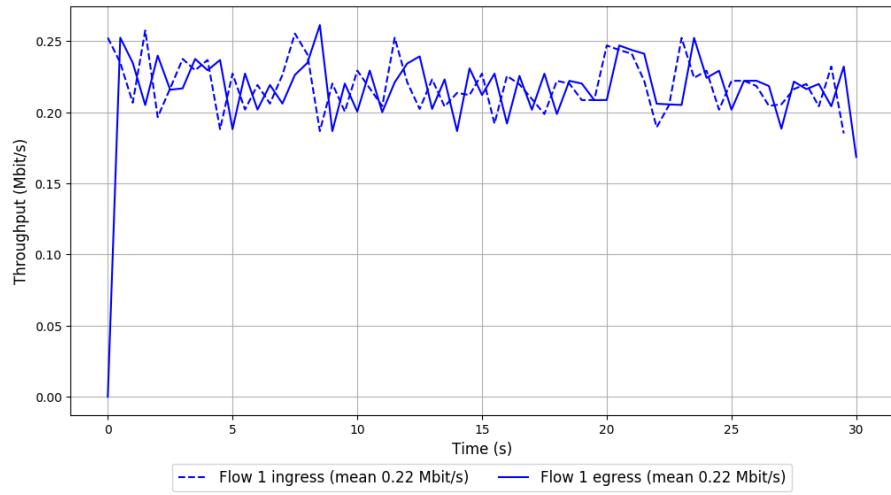


Run 3: Statistics of SCReAM

```
Start at: 2019-11-24 13:03:07
End at: 2019-11-24 13:03:37
Local clock offset: 3.697 ms
Remote clock offset: -1.552 ms

# Below is generated by plot.py at 2019-11-24 14:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.427 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.427 ms
Loss rate: 0.13%
```

Run 3: Report of SCReAM — Data Link

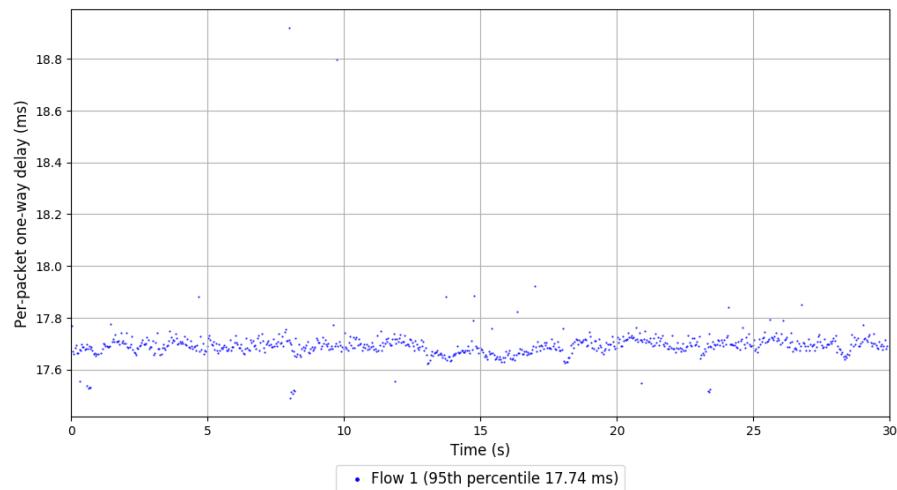
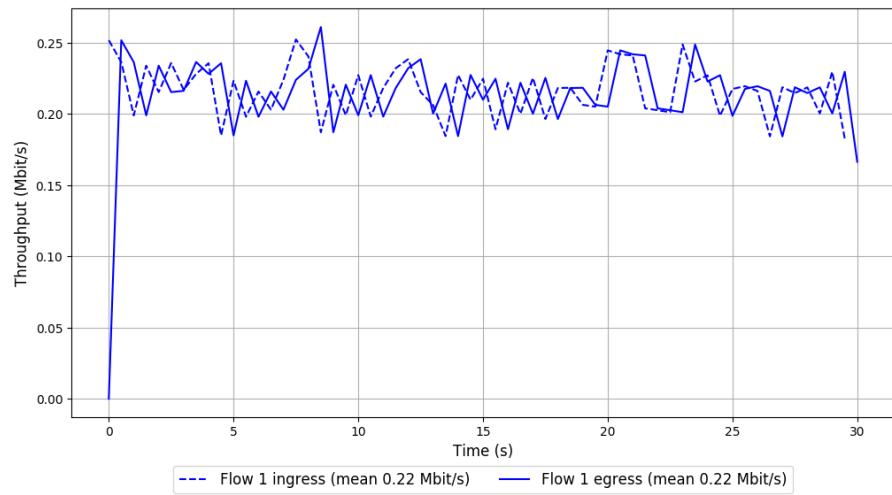


Run 4: Statistics of SCReAM

```
Start at: 2019-11-24 13:32:40
End at: 2019-11-24 13:33:10
Local clock offset: 2.031 ms
Remote clock offset: -2.612 ms

# Below is generated by plot.py at 2019-11-24 14:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.738 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.738 ms
Loss rate: 0.13%
```

Run 4: Report of SCReAM — Data Link

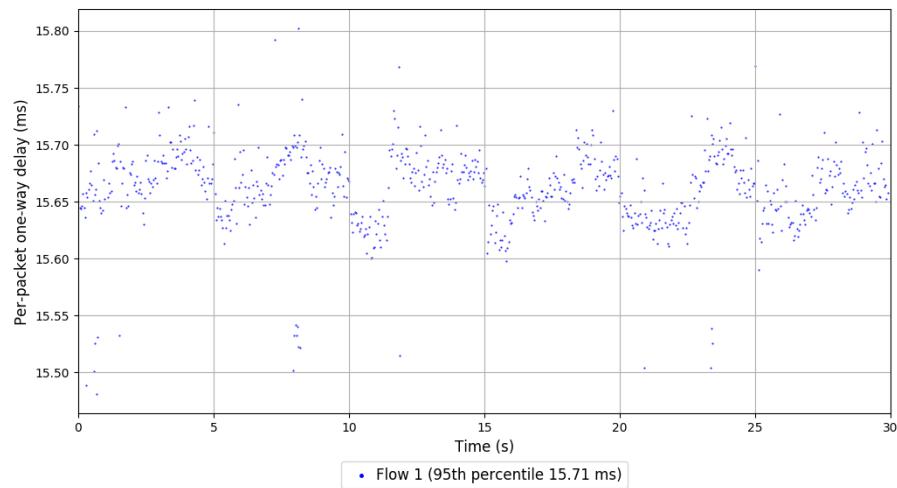
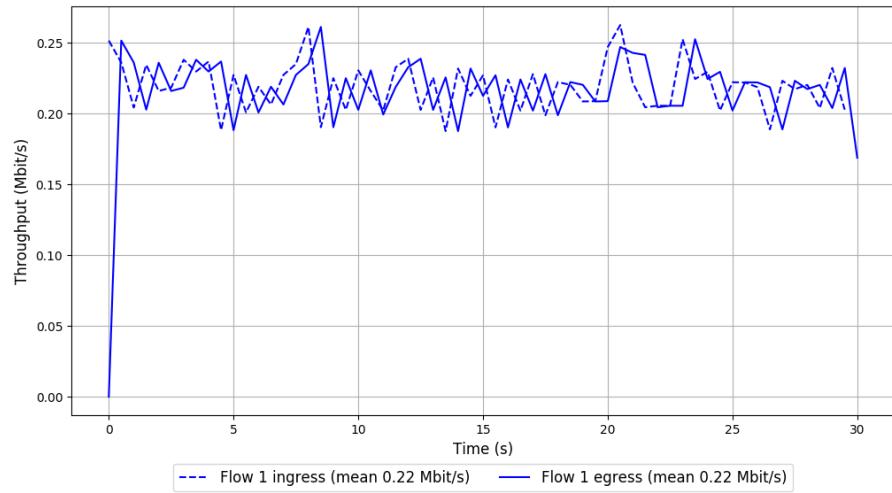


Run 5: Statistics of SCReAM

```
Start at: 2019-11-24 14:01:03
End at: 2019-11-24 14:01:33
Local clock offset: 2.663 ms
Remote clock offset: -1.554 ms

# Below is generated by plot.py at 2019-11-24 14:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 15.708 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 15.708 ms
Loss rate: 0.26%
```

Run 5: Report of SCReAM — Data Link

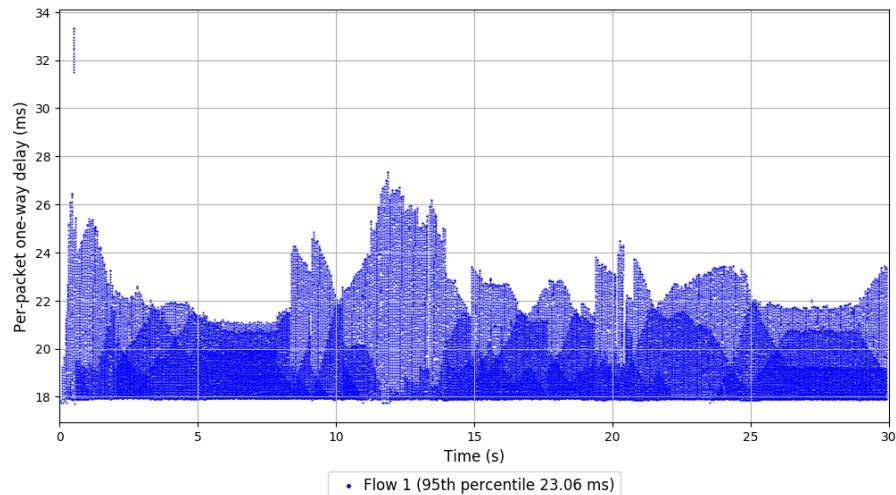
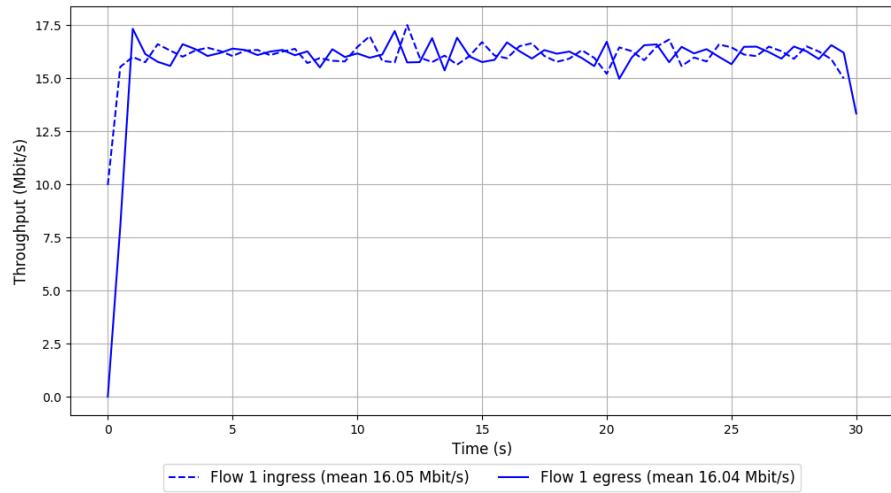


Run 1: Statistics of Sprout

```
Start at: 2019-11-24 11:44:12
End at: 2019-11-24 11:44:42
Local clock offset: 2.19 ms
Remote clock offset: -3.337 ms

# Below is generated by plot.py at 2019-11-24 14:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.04 Mbit/s
95th percentile per-packet one-way delay: 23.064 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 16.04 Mbit/s
95th percentile per-packet one-way delay: 23.064 ms
Loss rate: 0.21%
```

Run 1: Report of Sprout — Data Link

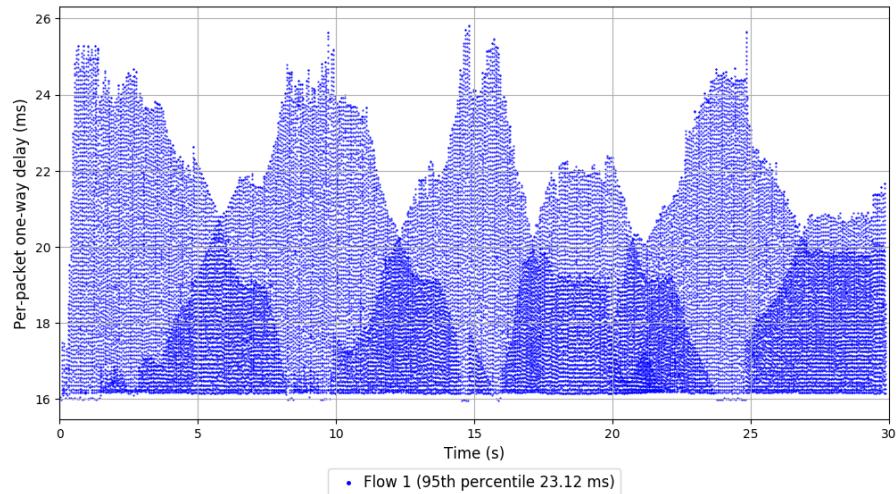
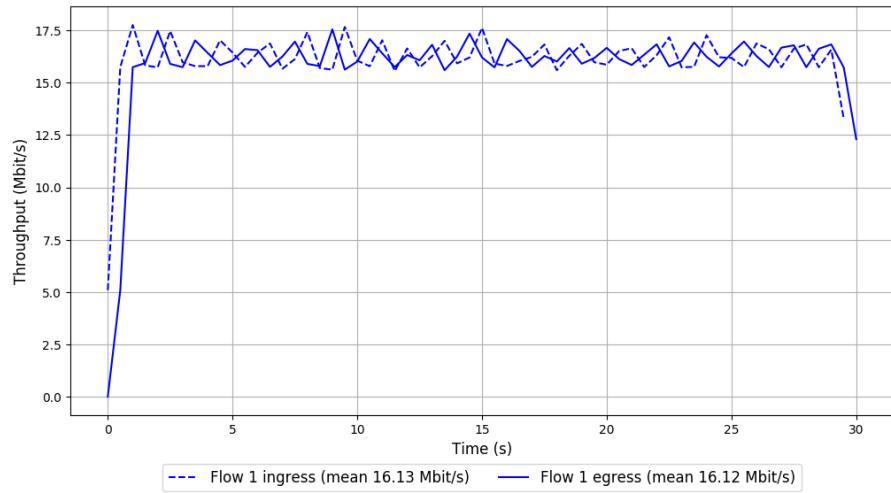


Run 2: Statistics of Sprout

```
Start at: 2019-11-24 12:13:27
End at: 2019-11-24 12:13:58
Local clock offset: 1.33 ms
Remote clock offset: -3.265 ms

# Below is generated by plot.py at 2019-11-24 14:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 23.124 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 23.124 ms
Loss rate: 0.19%
```

Run 2: Report of Sprout — Data Link

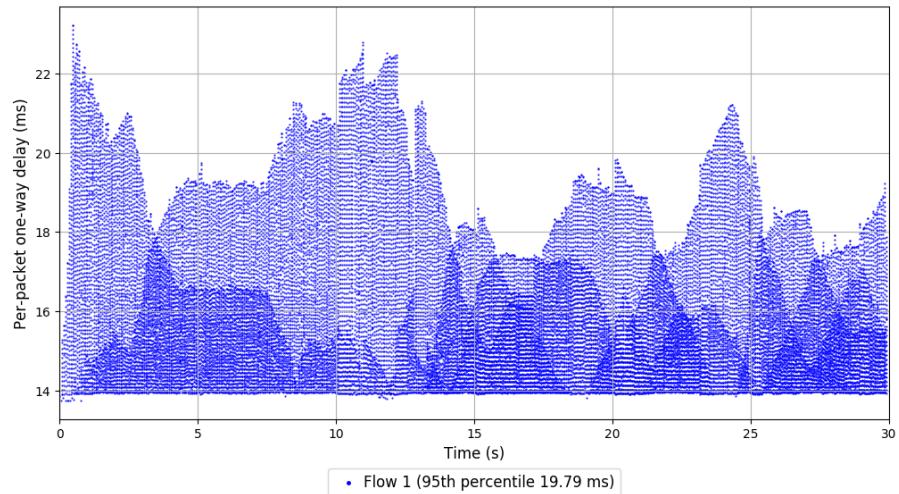
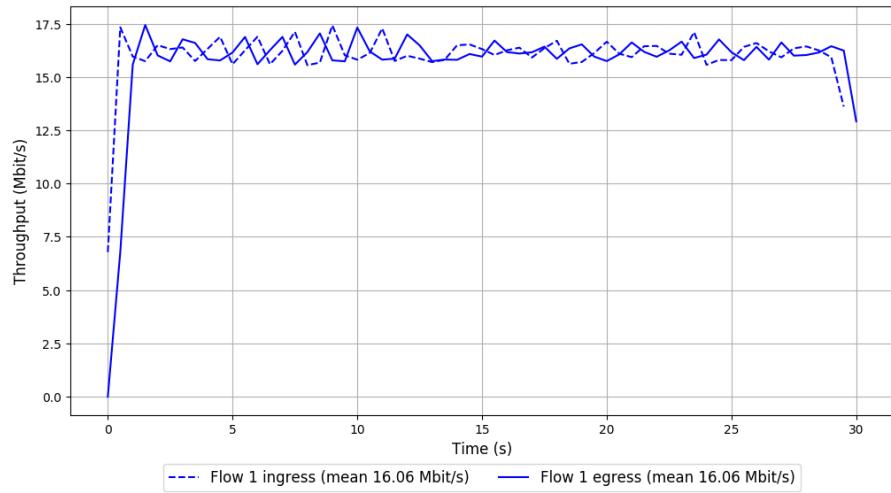


Run 3: Statistics of Sprout

```
Start at: 2019-11-24 12:43:00
End at: 2019-11-24 12:43:30
Local clock offset: 1.172 ms
Remote clock offset: -0.815 ms

# Below is generated by plot.py at 2019-11-24 14:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.06 Mbit/s
95th percentile per-packet one-way delay: 19.794 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 16.06 Mbit/s
95th percentile per-packet one-way delay: 19.794 ms
Loss rate: 0.11%
```

Run 3: Report of Sprout — Data Link

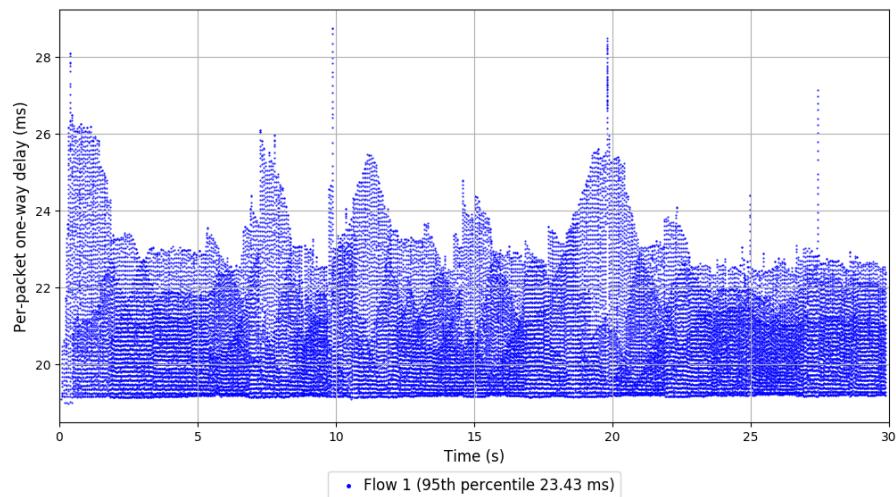
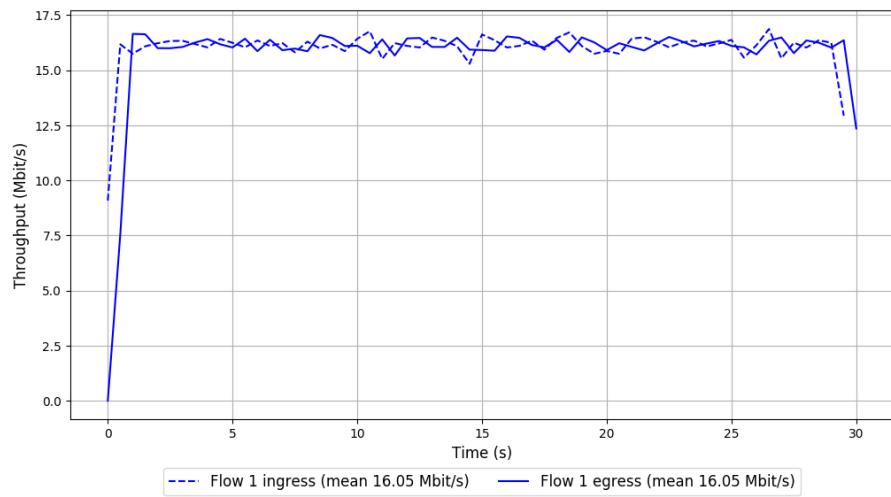


Run 4: Statistics of Sprout

```
Start at: 2019-11-24 13:12:00
End at: 2019-11-24 13:12:30
Local clock offset: 3.153 ms
Remote clock offset: -3.645 ms

# Below is generated by plot.py at 2019-11-24 14:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.05 Mbit/s
95th percentile per-packet one-way delay: 23.425 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 16.05 Mbit/s
95th percentile per-packet one-way delay: 23.425 ms
Loss rate: 0.13%
```

Run 4: Report of Sprout — Data Link

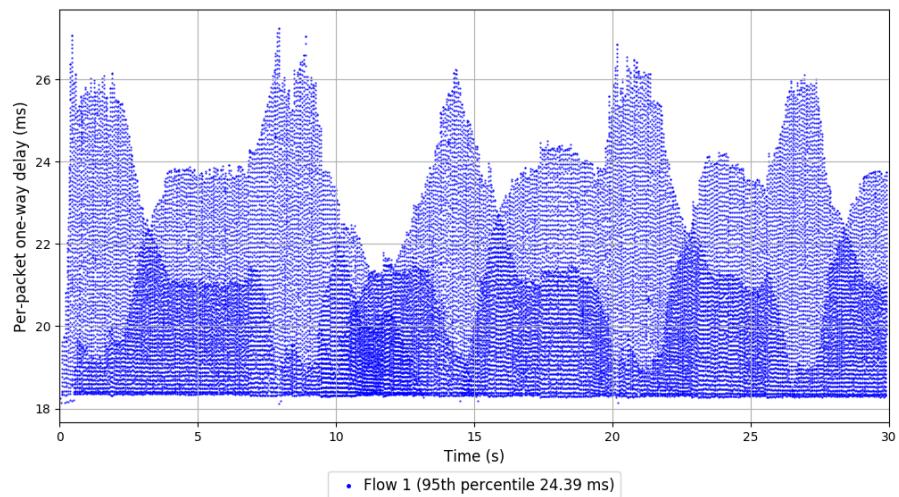
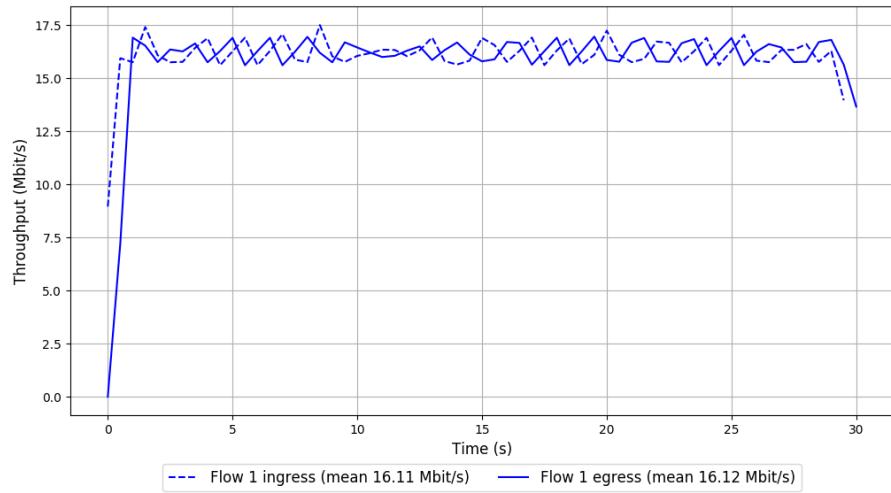


Run 5: Statistics of Sprout

```
Start at: 2019-11-24 13:41:21
End at: 2019-11-24 13:41:51
Local clock offset: 1.432 ms
Remote clock offset: -4.152 ms

# Below is generated by plot.py at 2019-11-24 14:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 24.394 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 24.394 ms
Loss rate: 0.10%
```

Run 5: Report of Sprout — Data Link

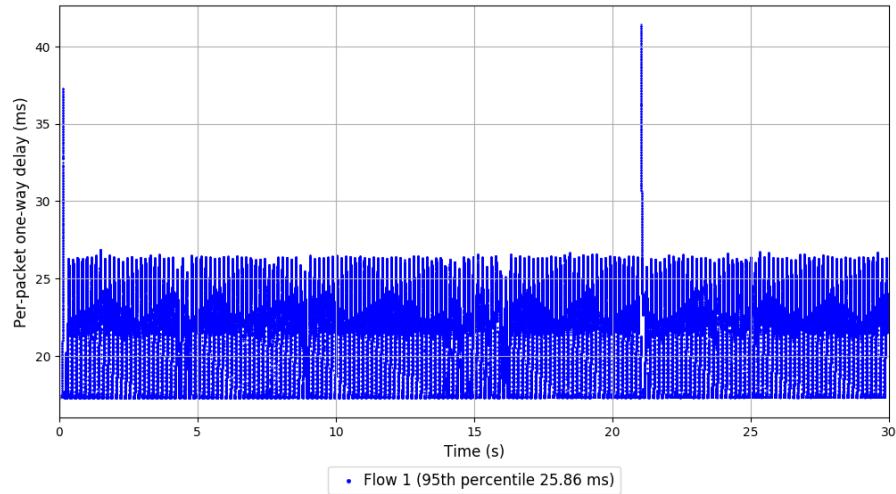
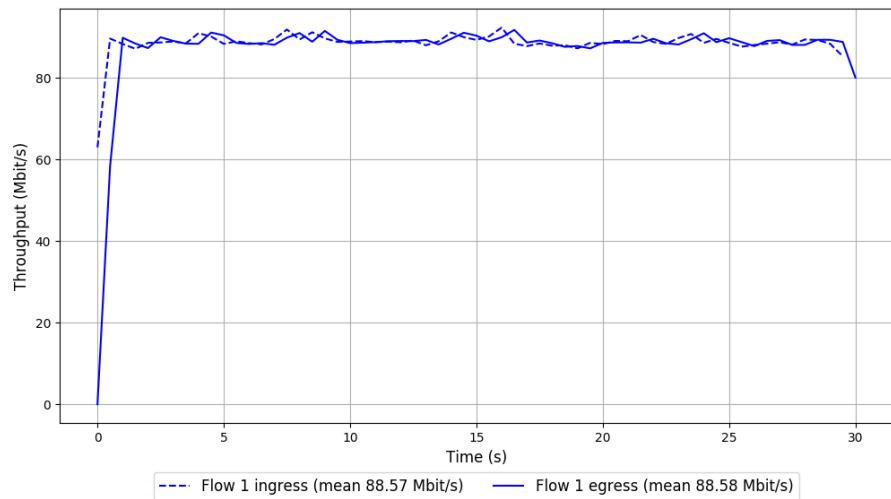


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-11-24 12:08:28
End at: 2019-11-24 12:08:58
Local clock offset: 3.614 ms
Remote clock offset: -2.039 ms

# Below is generated by plot.py at 2019-11-24 14:21:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.58 Mbit/s
95th percentile per-packet one-way delay: 25.865 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 88.58 Mbit/s
95th percentile per-packet one-way delay: 25.865 ms
Loss rate: 0.15%
```

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

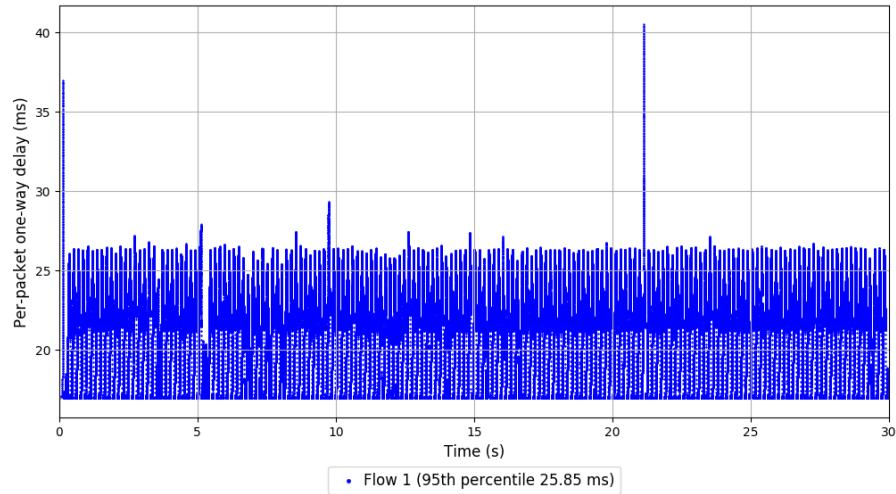
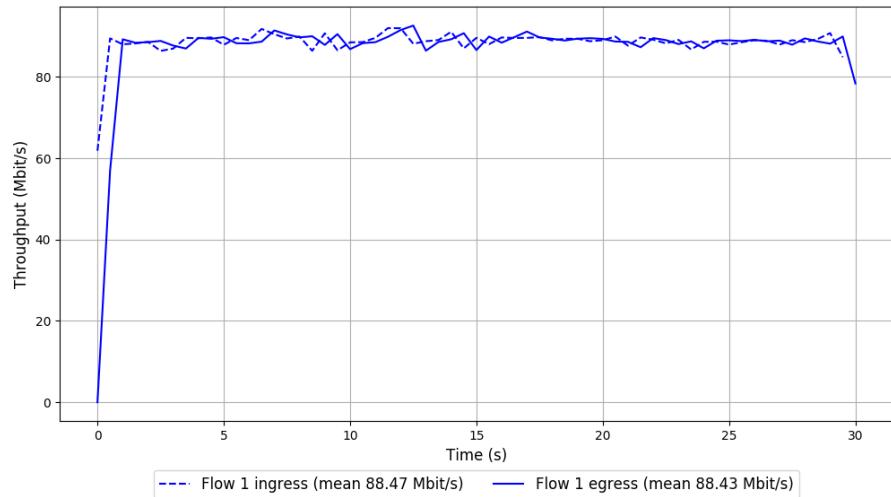


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-11-24 12:38:00
End at: 2019-11-24 12:38:30
Local clock offset: 4.332 ms
Remote clock offset: -1.042 ms

# Below is generated by plot.py at 2019-11-24 14:21:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.43 Mbit/s
95th percentile per-packet one-way delay: 25.847 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 88.43 Mbit/s
95th percentile per-packet one-way delay: 25.847 ms
Loss rate: 0.20%
```

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

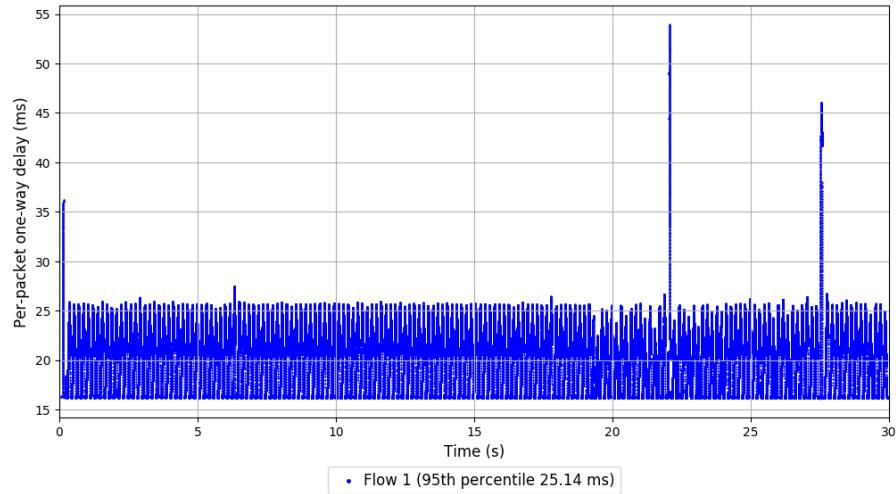
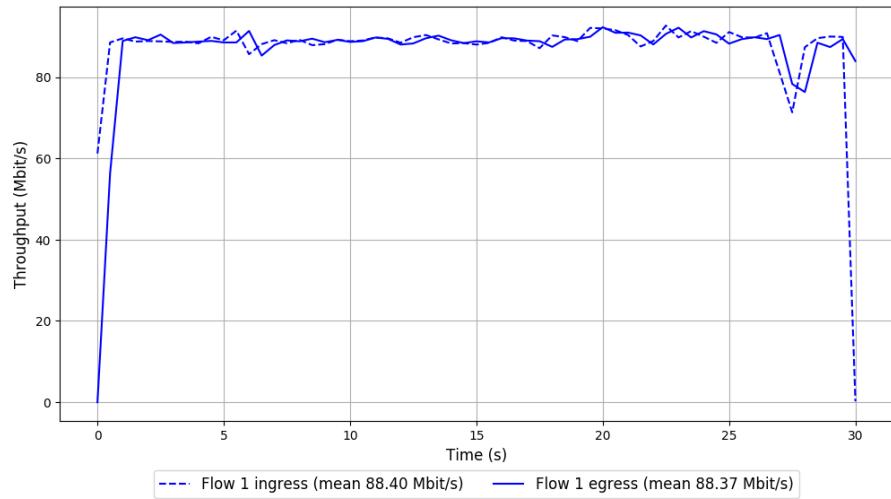


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-11-24 13:06:40
End at: 2019-11-24 13:07:10
Local clock offset: 3.574 ms
Remote clock offset: -0.534 ms

# Below is generated by plot.py at 2019-11-24 14:21:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 25.139 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 25.139 ms
Loss rate: 0.20%
```

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

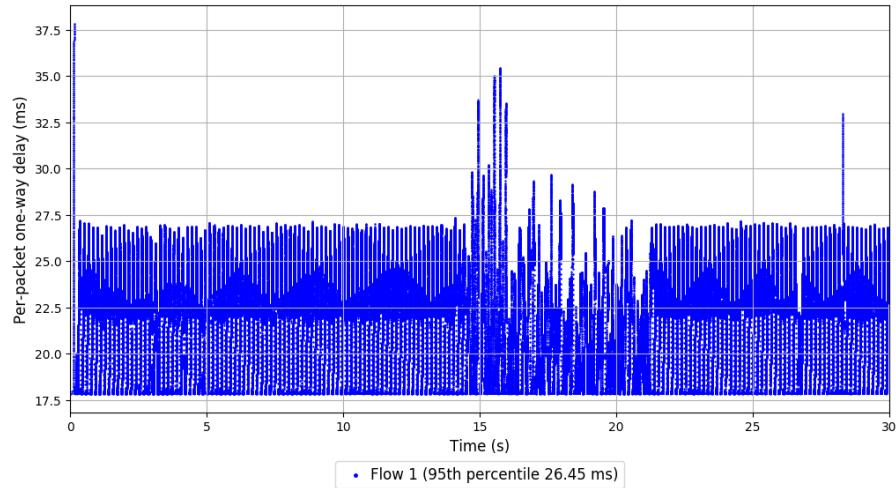
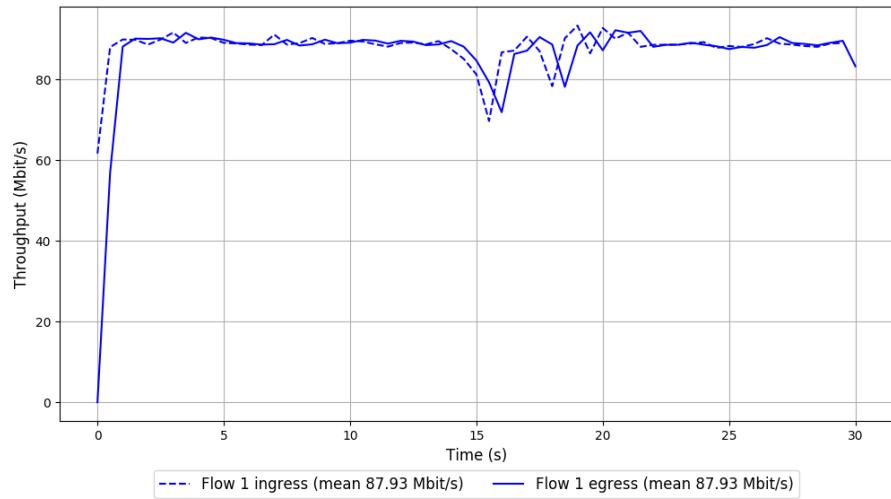


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-11-24 13:36:09
End at: 2019-11-24 13:36:39
Local clock offset: 3.349 ms
Remote clock offset: -1.326 ms

# Below is generated by plot.py at 2019-11-24 14:21:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.93 Mbit/s
95th percentile per-packet one-way delay: 26.446 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 87.93 Mbit/s
95th percentile per-packet one-way delay: 26.446 ms
Loss rate: 0.16%
```

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

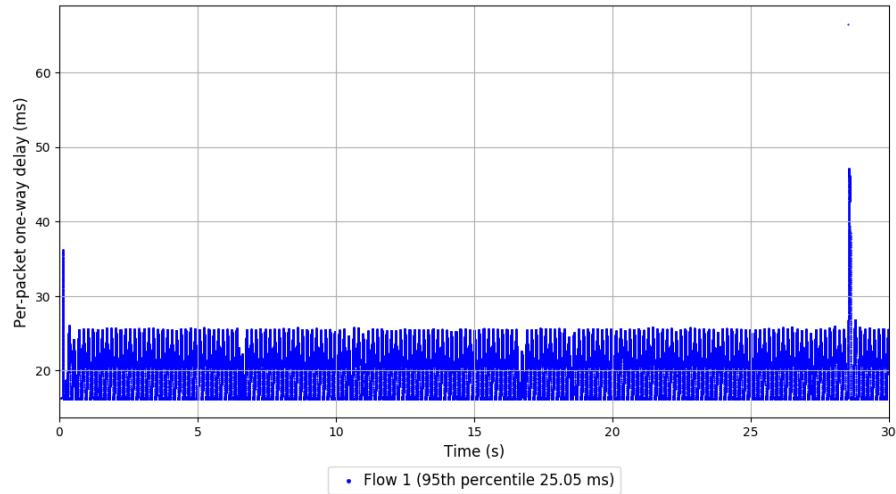
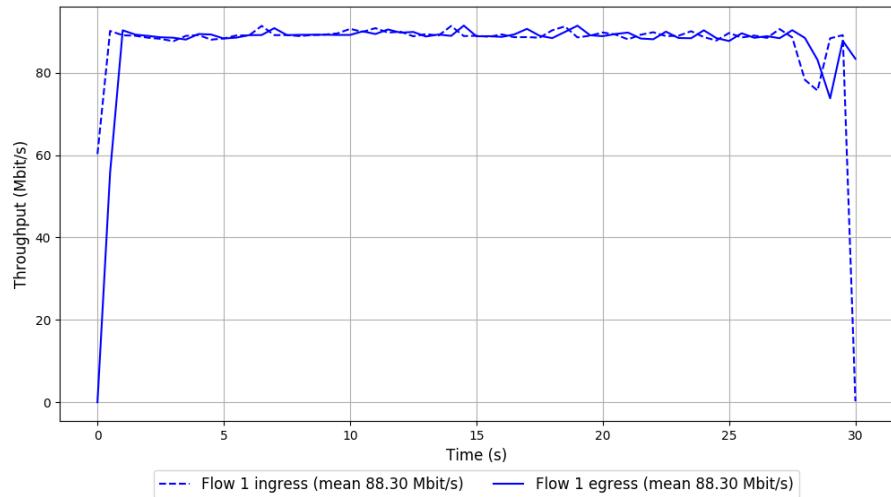


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-11-24 14:04:27
End at: 2019-11-24 14:04:57
Local clock offset: 1.246 ms
Remote clock offset: -3.631 ms

# Below is generated by plot.py at 2019-11-24 14:21:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.30 Mbit/s
95th percentile per-packet one-way delay: 25.050 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 88.30 Mbit/s
95th percentile per-packet one-way delay: 25.050 ms
Loss rate: 0.16%
```

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

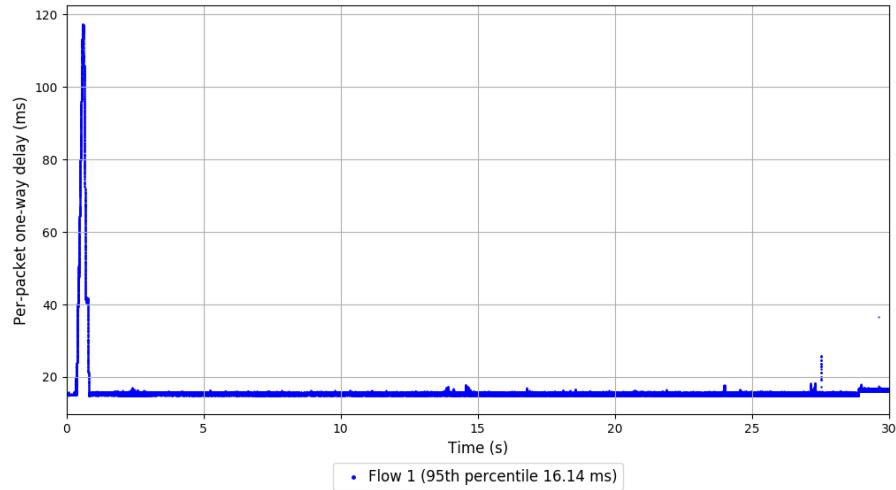
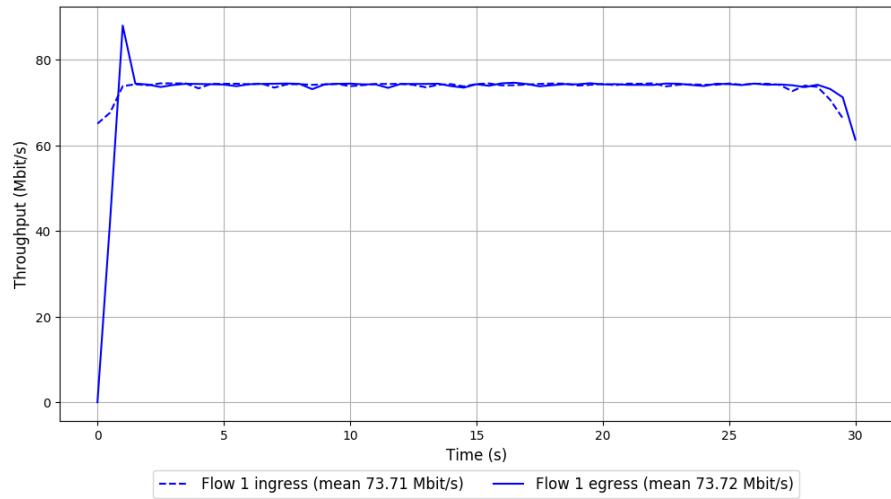


Run 1: Statistics of TCP Vegas

```
Start at: 2019-11-24 11:57:39
End at: 2019-11-24 11:58:09
Local clock offset: 1.813 ms
Remote clock offset: -2.674 ms

# Below is generated by plot.py at 2019-11-24 14:21:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.72 Mbit/s
95th percentile per-packet one-way delay: 16.142 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 73.72 Mbit/s
95th percentile per-packet one-way delay: 16.142 ms
Loss rate: 0.15%
```

Run 1: Report of TCP Vegas — Data Link

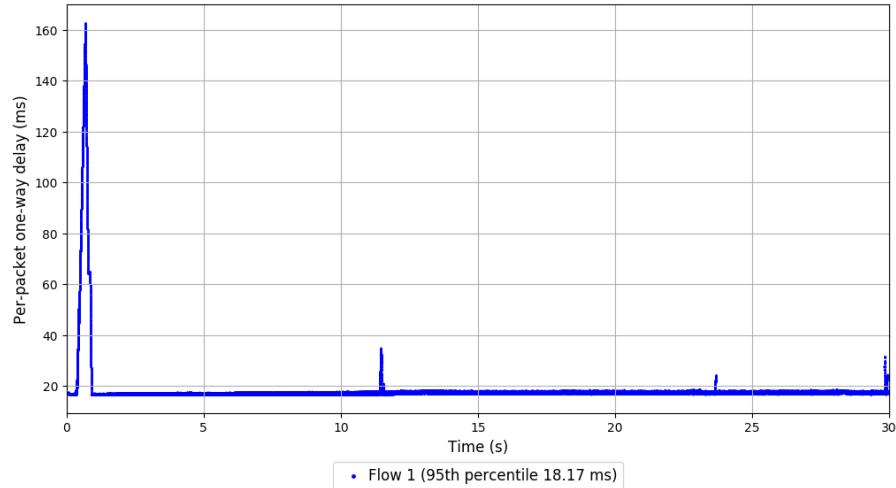
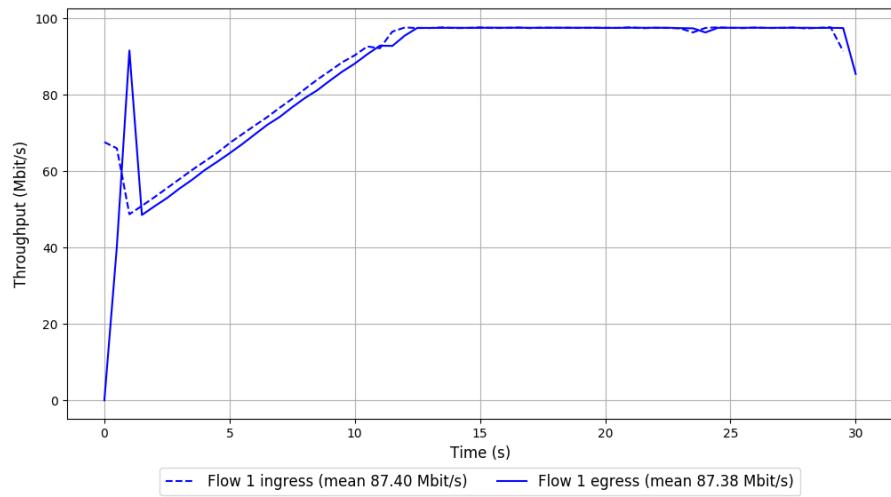


Run 2: Statistics of TCP Vegas

```
Start at: 2019-11-24 12:26:50
End at: 2019-11-24 12:27:20
Local clock offset: 1.582 ms
Remote clock offset: -3.327 ms

# Below is generated by plot.py at 2019-11-24 14:21:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.38 Mbit/s
95th percentile per-packet one-way delay: 18.167 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 87.38 Mbit/s
95th percentile per-packet one-way delay: 18.167 ms
Loss rate: 0.18%
```

Run 2: Report of TCP Vegas — Data Link

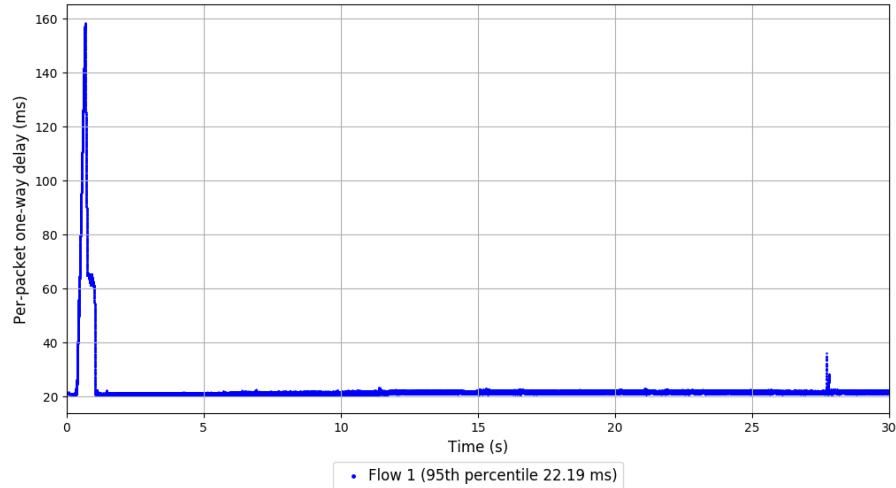
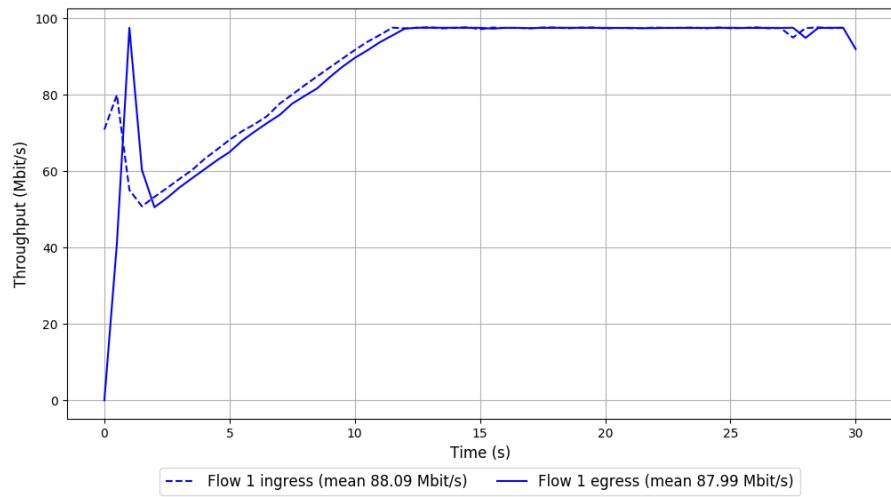


Run 3: Statistics of TCP Vegas

```
Start at: 2019-11-24 12:55:51
End at: 2019-11-24 12:56:21
Local clock offset: 4.129 ms
Remote clock offset: -3.637 ms

# Below is generated by plot.py at 2019-11-24 14:21:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.99 Mbit/s
95th percentile per-packet one-way delay: 22.194 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 87.99 Mbit/s
95th percentile per-packet one-way delay: 22.194 ms
Loss rate: 0.28%
```

Run 3: Report of TCP Vegas — Data Link

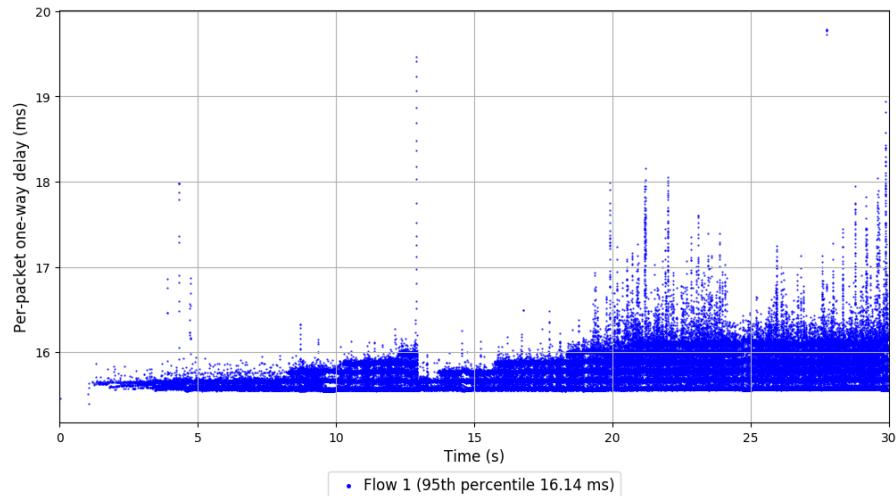
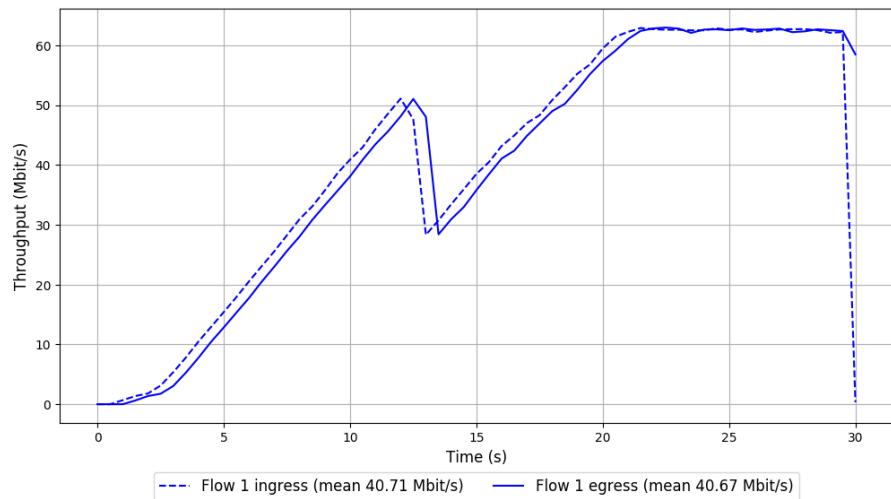


Run 4: Statistics of TCP Vegas

```
Start at: 2019-11-24 13:25:15
End at: 2019-11-24 13:25:45
Local clock offset: -0.312 ms
Remote clock offset: -2.958 ms

# Below is generated by plot.py at 2019-11-24 14:21:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 16.135 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 16.135 ms
Loss rate: 0.27%
```

Run 4: Report of TCP Vegas — Data Link

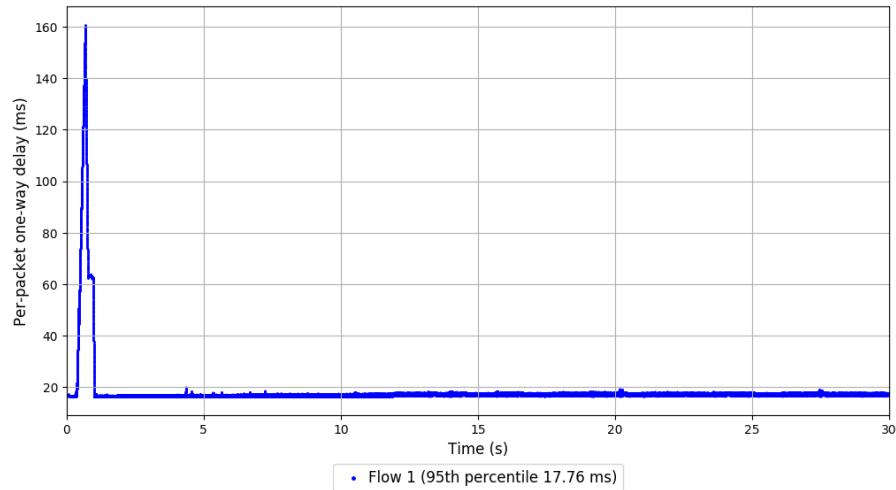
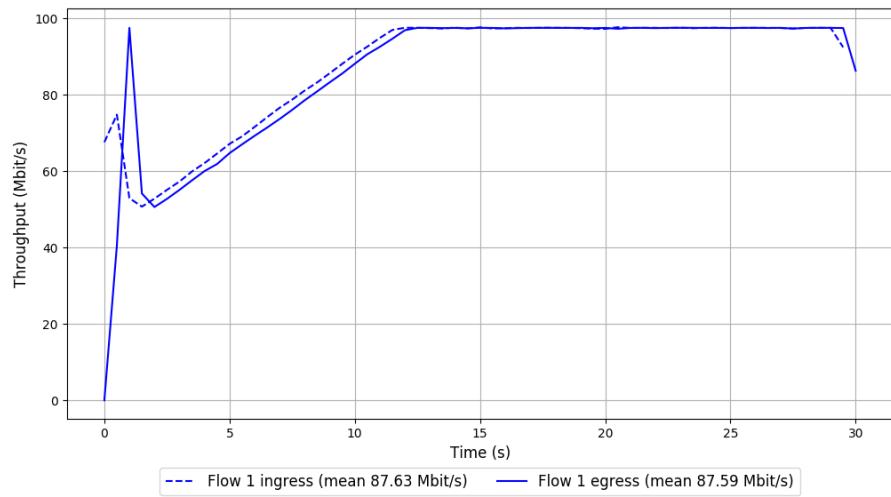


Run 5: Statistics of TCP Vegas

```
Start at: 2019-11-24 13:53:57
End at: 2019-11-24 13:54:27
Local clock offset: 1.506 ms
Remote clock offset: -3.174 ms

# Below is generated by plot.py at 2019-11-24 14:22:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.59 Mbit/s
95th percentile per-packet one-way delay: 17.762 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 87.59 Mbit/s
95th percentile per-packet one-way delay: 17.762 ms
Loss rate: 0.21%
```

Run 5: Report of TCP Vegas — Data Link

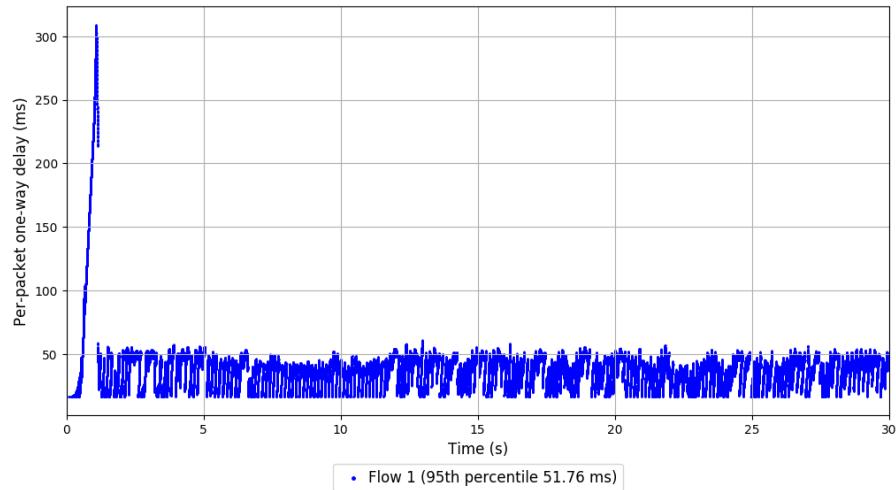
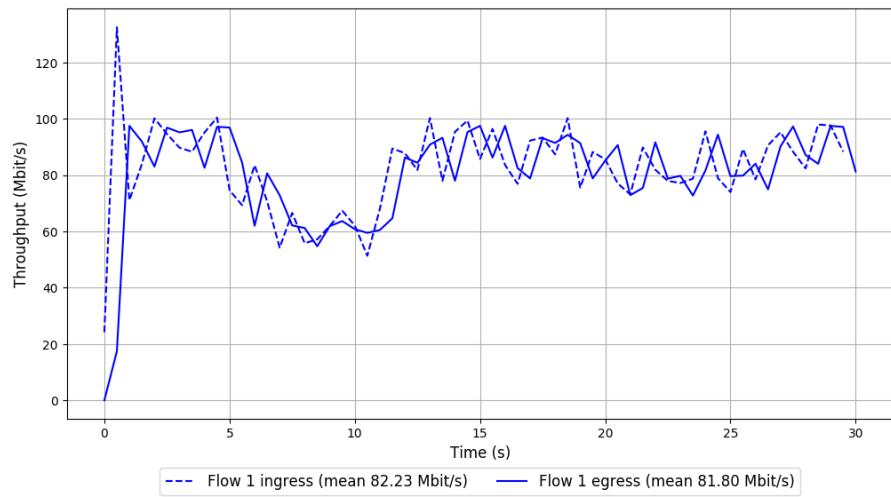


Run 1: Statistics of Verus

```
Start at: 2019-11-24 11:50:13
End at: 2019-11-24 11:50:43
Local clock offset: 0.936 ms
Remote clock offset: -3.667 ms

# Below is generated by plot.py at 2019-11-24 14:22:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.80 Mbit/s
95th percentile per-packet one-way delay: 51.757 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 81.80 Mbit/s
95th percentile per-packet one-way delay: 51.757 ms
Loss rate: 0.68%
```

Run 1: Report of Verus — Data Link

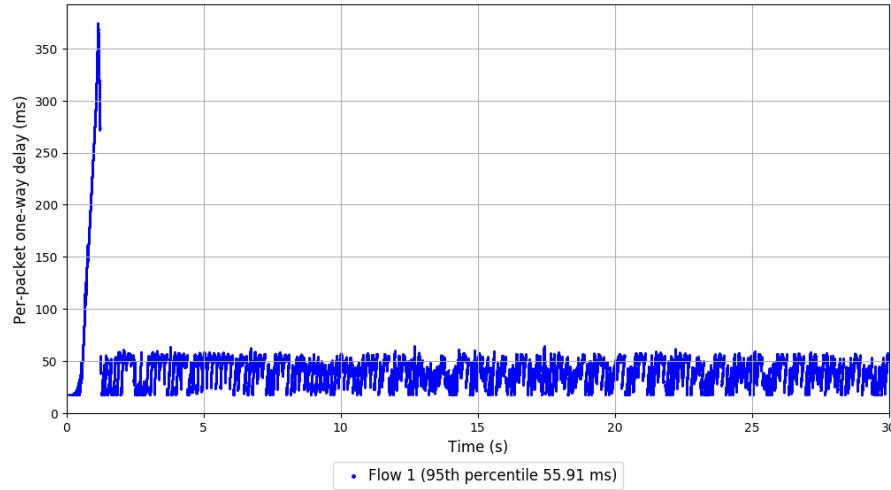
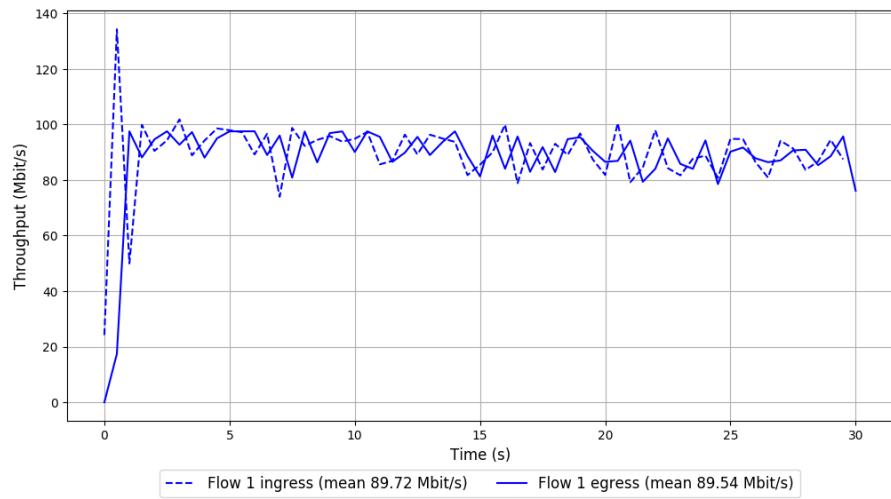


Run 2: Statistics of Verus

```
Start at: 2019-11-24 12:19:24
End at: 2019-11-24 12:19:54
Local clock offset: 4.864 ms
Remote clock offset: -1.292 ms

# Below is generated by plot.py at 2019-11-24 14:22:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.54 Mbit/s
95th percentile per-packet one-way delay: 55.912 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 89.54 Mbit/s
95th percentile per-packet one-way delay: 55.912 ms
Loss rate: 0.37%
```

Run 2: Report of Verus — Data Link

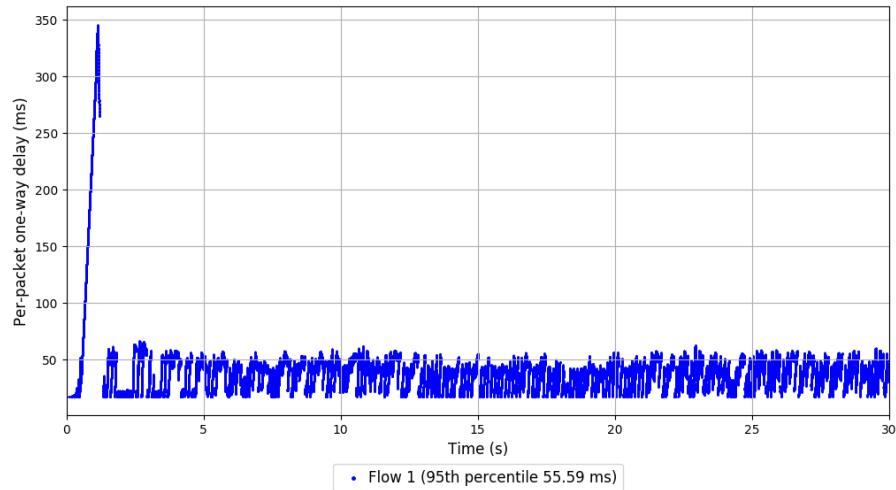
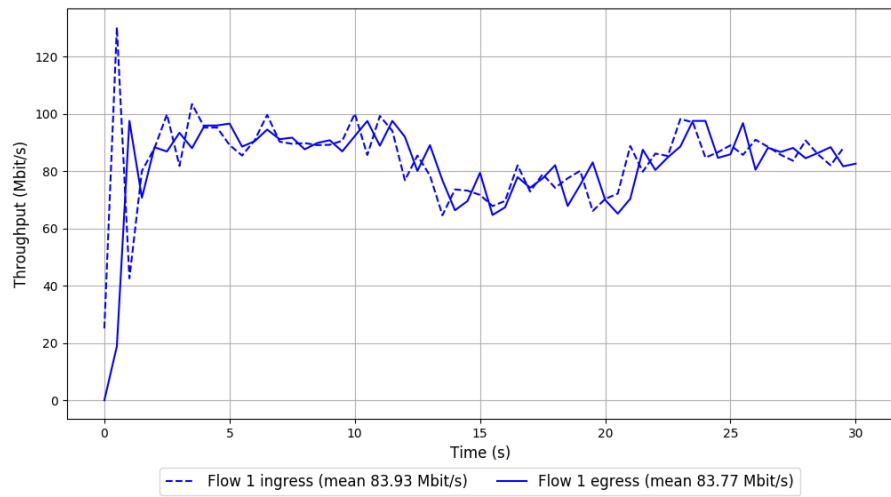


Run 3: Statistics of Verus

```
Start at: 2019-11-24 12:48:50
End at: 2019-11-24 12:49:20
Local clock offset: 3.883 ms
Remote clock offset: -1.521 ms

# Below is generated by plot.py at 2019-11-24 14:22:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.77 Mbit/s
95th percentile per-packet one-way delay: 55.593 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 83.77 Mbit/s
95th percentile per-packet one-way delay: 55.593 ms
Loss rate: 0.34%
```

Run 3: Report of Verus — Data Link

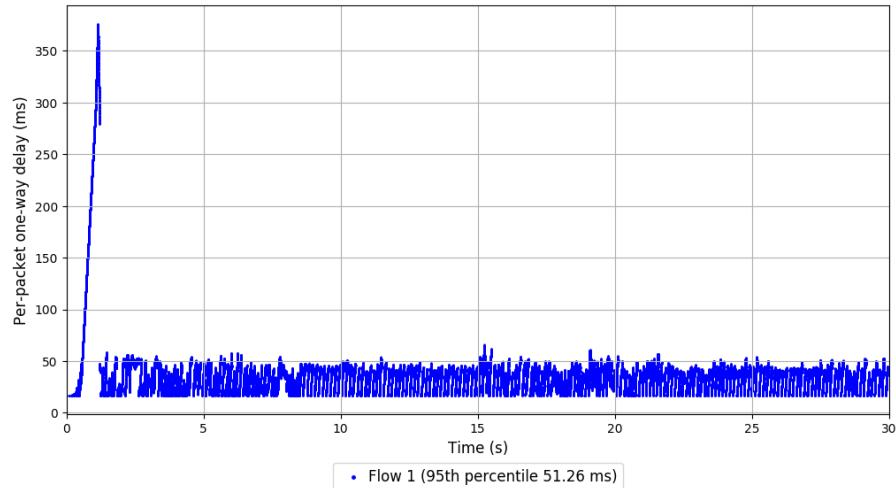
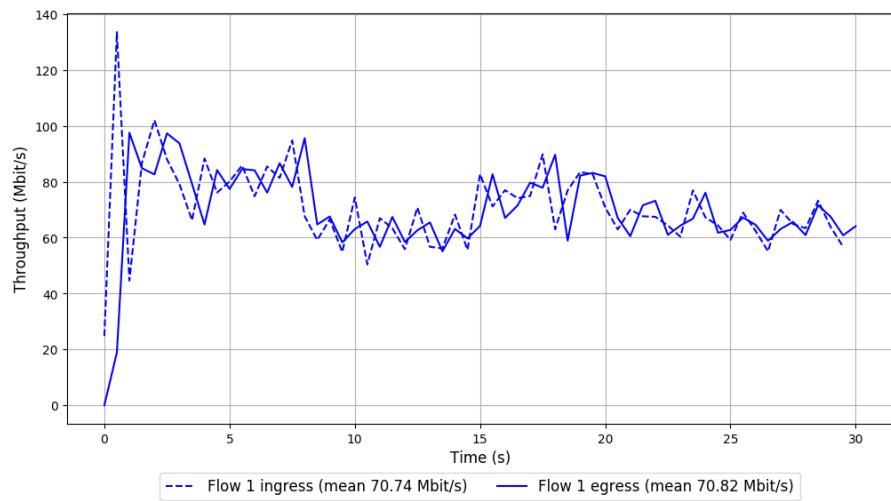


Run 4: Statistics of Verus

```
Start at: 2019-11-24 13:18:00
End at: 2019-11-24 13:18:30
Local clock offset: 3.169 ms
Remote clock offset: -0.774 ms

# Below is generated by plot.py at 2019-11-24 14:22:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.82 Mbit/s
95th percentile per-packet one-way delay: 51.262 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 70.82 Mbit/s
95th percentile per-packet one-way delay: 51.262 ms
Loss rate: 0.05%
```

Run 4: Report of Verus — Data Link

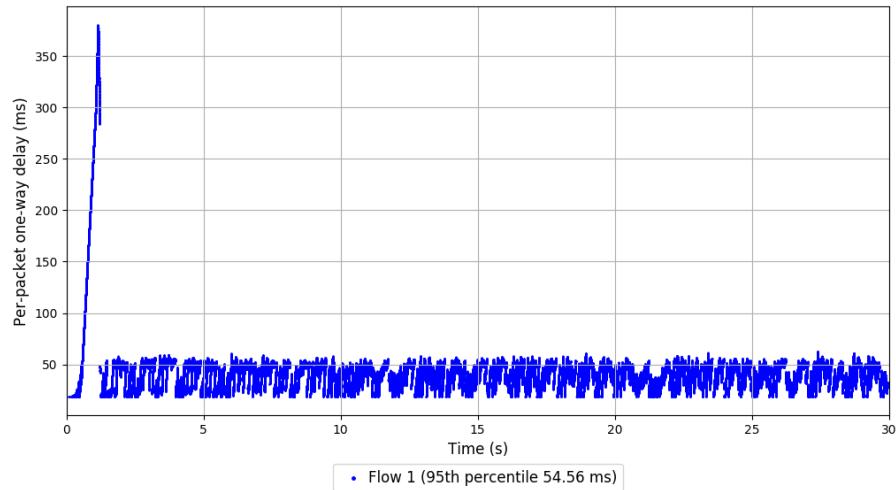
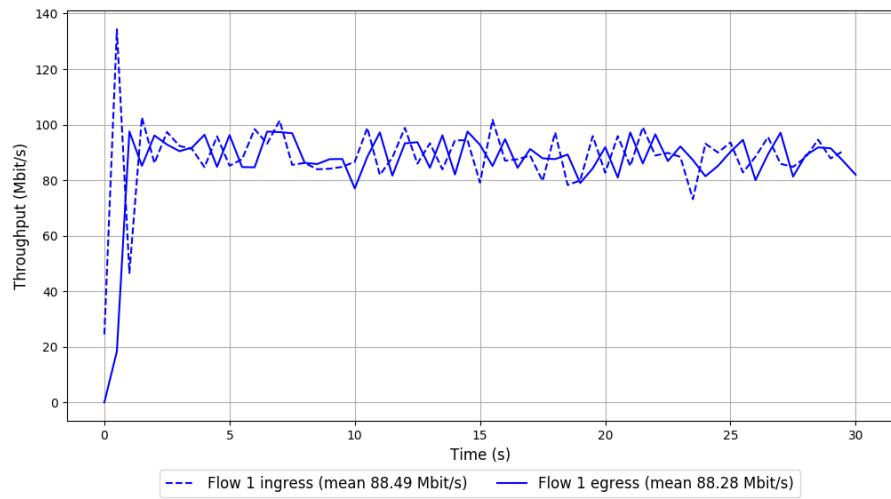


Run 5: Statistics of Verus

```
Start at: 2019-11-24 13:47:05
End at: 2019-11-24 13:47:35
Local clock offset: 3.316 ms
Remote clock offset: -3.081 ms

# Below is generated by plot.py at 2019-11-24 14:22:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 54.560 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 54.560 ms
Loss rate: 0.40%
```

Run 5: Report of Verus — Data Link

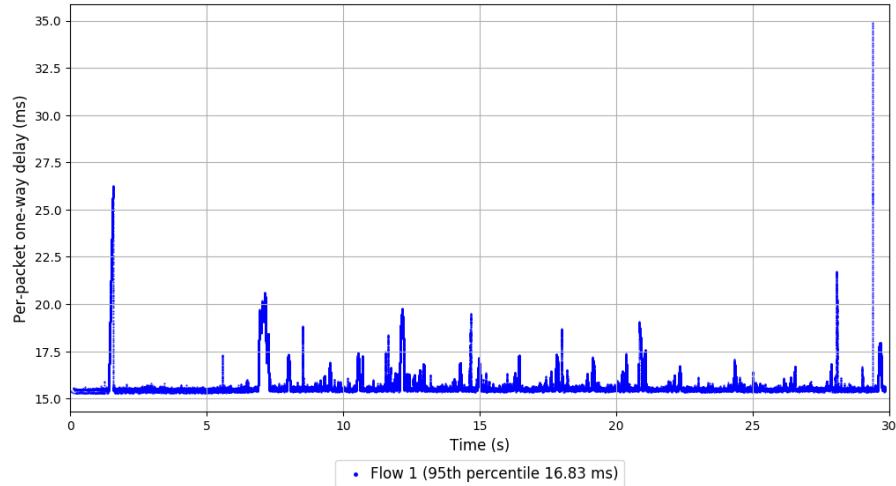
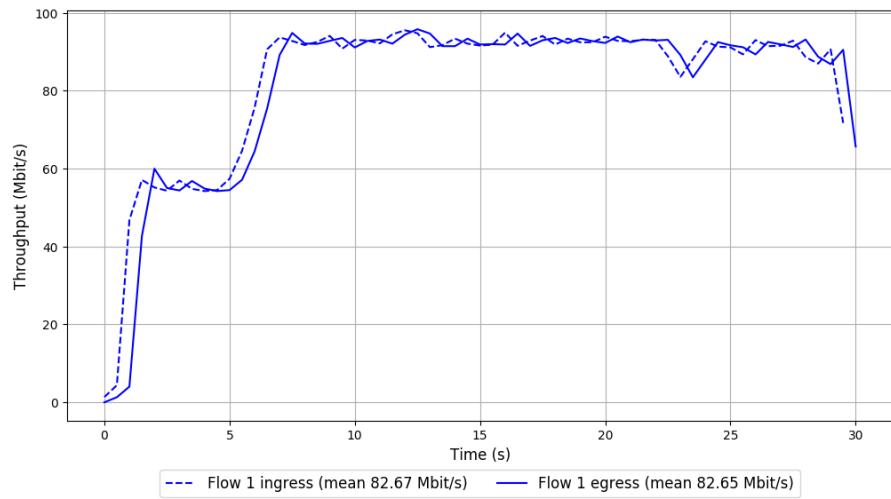


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-11-24 11:56:25
End at: 2019-11-24 11:56:55
Local clock offset: 1.866 ms
Remote clock offset: -1.004 ms

# Below is generated by plot.py at 2019-11-24 14:22:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.65 Mbit/s
95th percentile per-packet one-way delay: 16.834 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 82.65 Mbit/s
95th percentile per-packet one-way delay: 16.834 ms
Loss rate: 0.18%
```

Run 1: Report of PCC-Vivace — Data Link

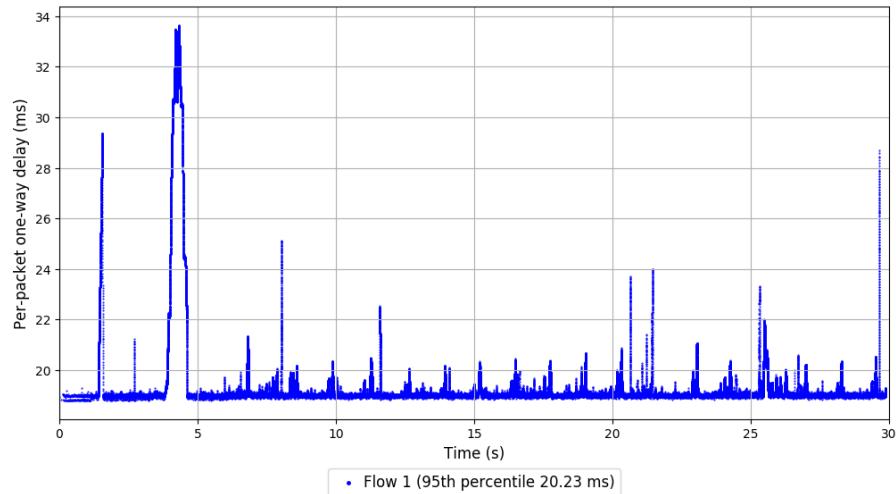
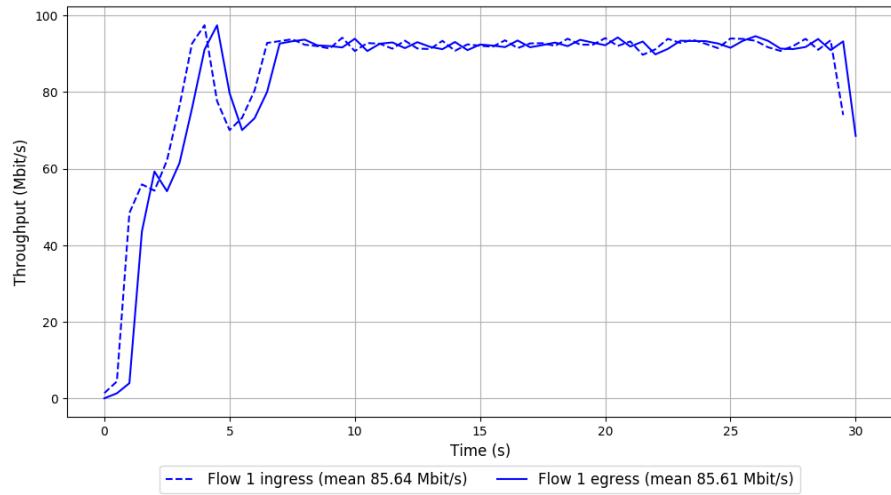


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-11-24 12:25:23
End at: 2019-11-24 12:25:54
Local clock offset: 4.186 ms
Remote clock offset: -3.103 ms

# Below is generated by plot.py at 2019-11-24 14:22:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.61 Mbit/s
95th percentile per-packet one-way delay: 20.228 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 85.61 Mbit/s
95th percentile per-packet one-way delay: 20.228 ms
Loss rate: 0.19%
```

Run 2: Report of PCC-Vivace — Data Link

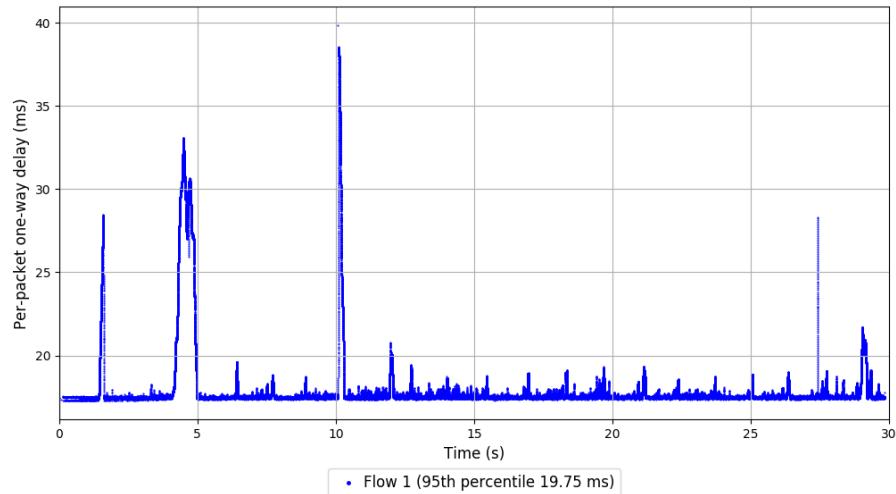
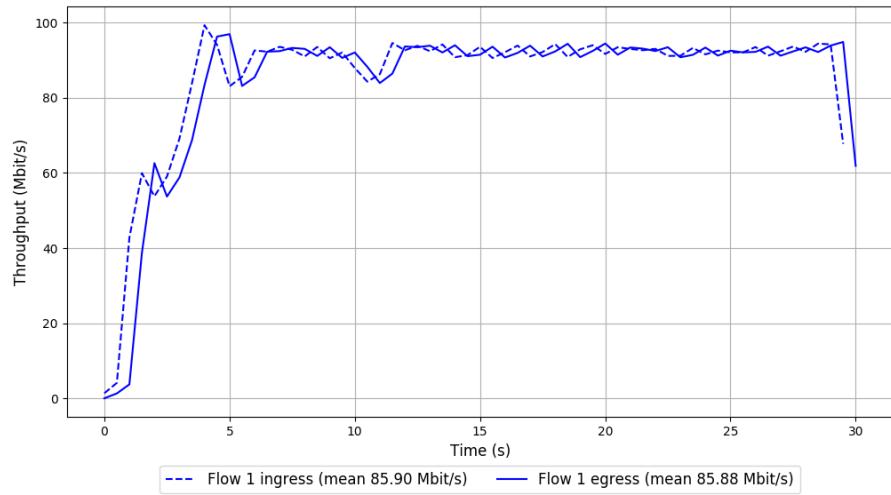


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-11-24 12:54:40
End at: 2019-11-24 12:55:10
Local clock offset: 3.651 ms
Remote clock offset: -0.94 ms

# Below is generated by plot.py at 2019-11-24 14:22:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.88 Mbit/s
95th percentile per-packet one-way delay: 19.748 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 85.88 Mbit/s
95th percentile per-packet one-way delay: 19.748 ms
Loss rate: 0.18%
```

Run 3: Report of PCC-Vivace — Data Link

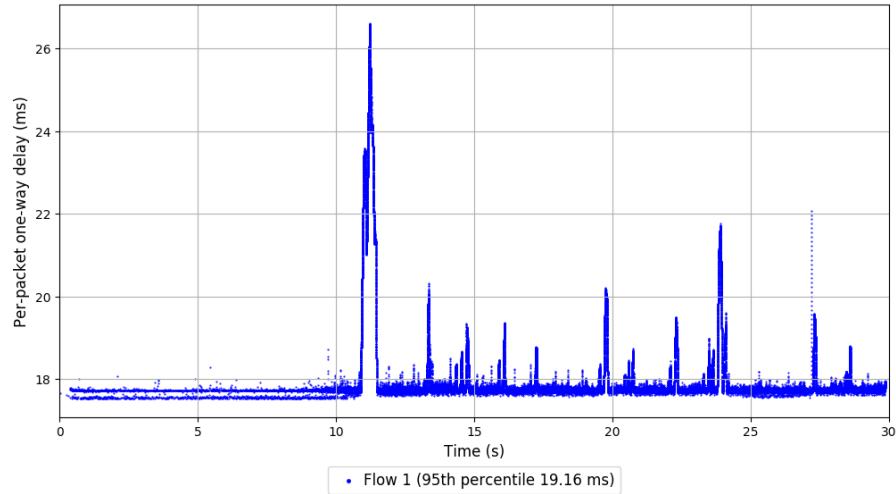
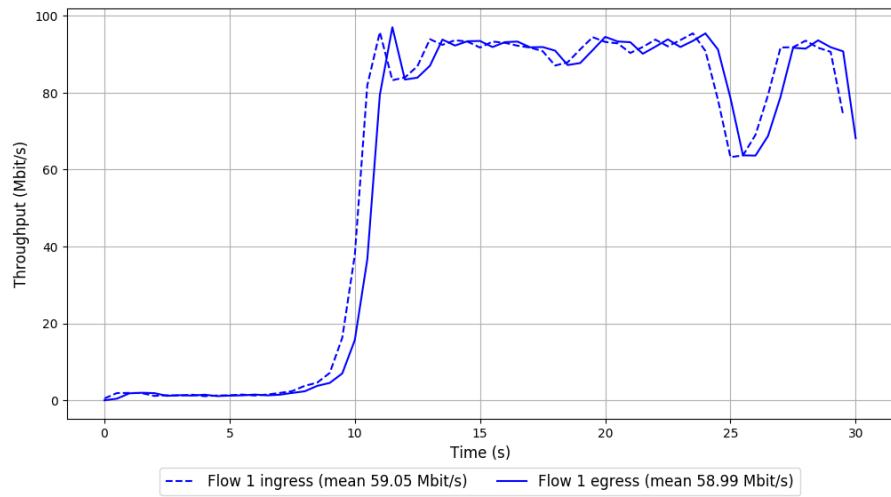


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-11-24 13:24:03
End at: 2019-11-24 13:24:33
Local clock offset: 1.413 ms
Remote clock offset: -3.425 ms

# Below is generated by plot.py at 2019-11-24 14:22:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.99 Mbit/s
95th percentile per-packet one-way delay: 19.155 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 58.99 Mbit/s
95th percentile per-packet one-way delay: 19.155 ms
Loss rate: 0.26%
```

Run 4: Report of PCC-Vivace — Data Link

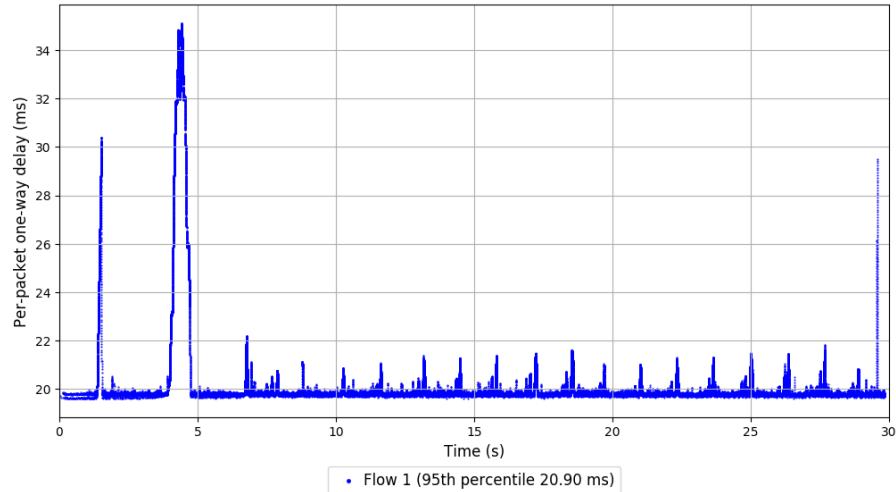
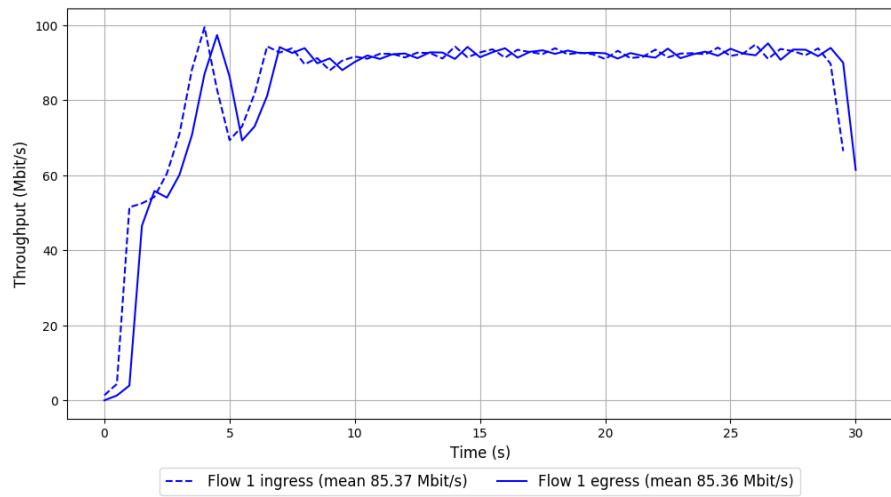


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-11-24 13:52:46
End at: 2019-11-24 13:53:16
Local clock offset: 4.139 ms
Remote clock offset: -3.978 ms

# Below is generated by plot.py at 2019-11-24 14:22:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.36 Mbit/s
95th percentile per-packet one-way delay: 20.903 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 85.36 Mbit/s
95th percentile per-packet one-way delay: 20.903 ms
Loss rate: 0.17%
```

Run 5: Report of PCC-Vivace — Data Link

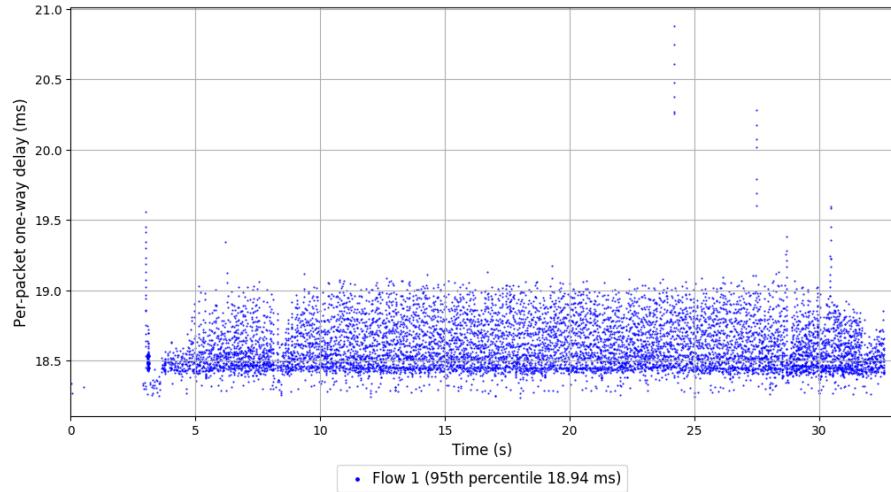
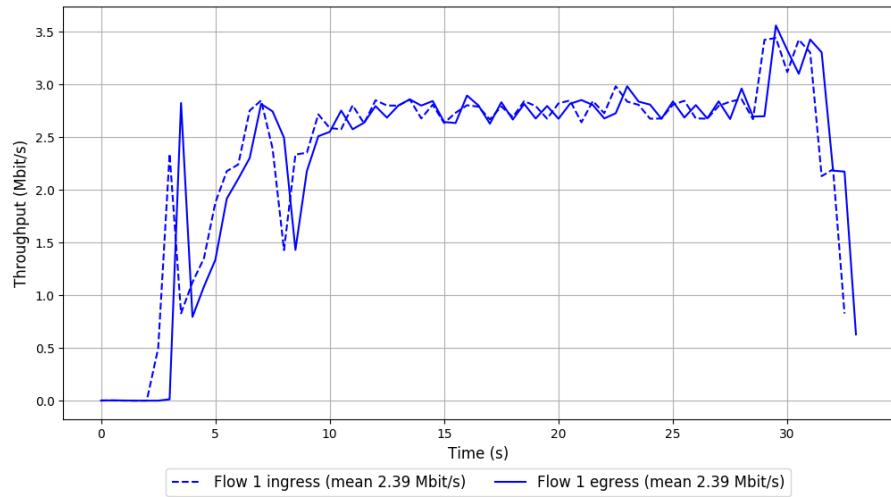


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-11-24 11:55:19
End at: 2019-11-24 11:55:49
Local clock offset: 3.259 ms
Remote clock offset: -3.462 ms

# Below is generated by plot.py at 2019-11-24 14:22:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 18.943 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 18.943 ms
Loss rate: 0.19%
```

Run 1: Report of WebRTC media — Data Link

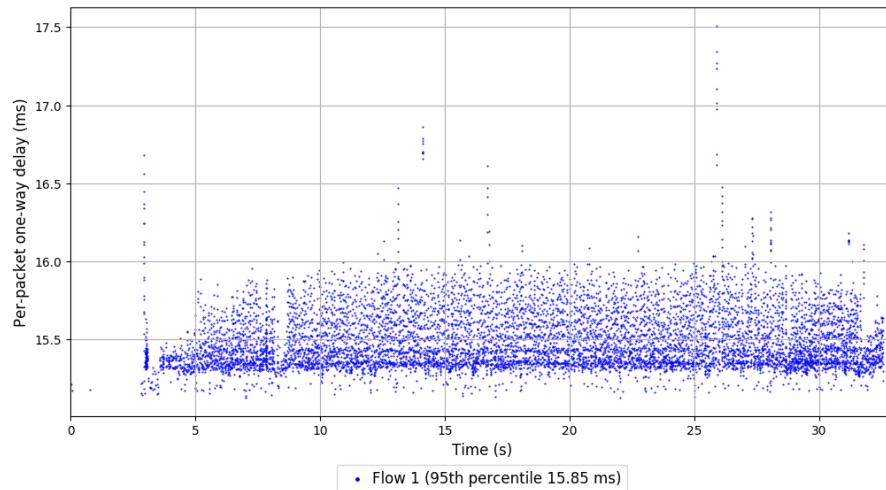
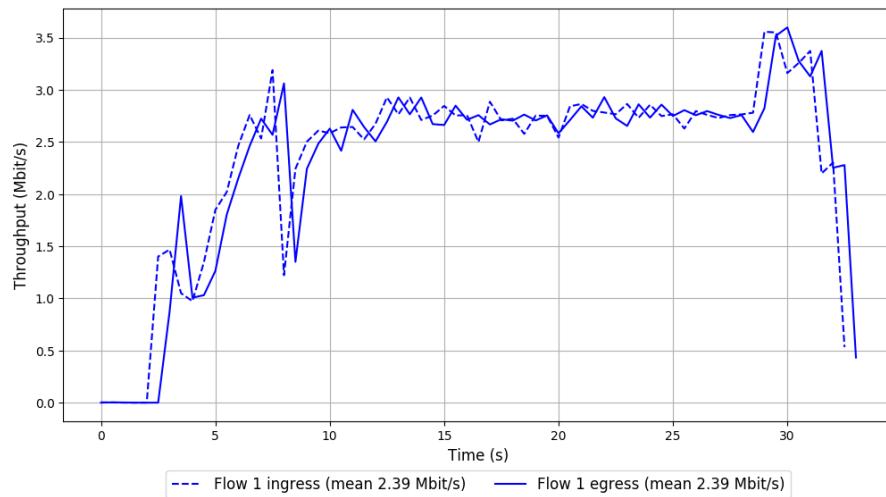


Run 2: Statistics of WebRTC media

```
Start at: 2019-11-24 12:24:18
End at: 2019-11-24 12:24:48
Local clock offset: 1.974 ms
Remote clock offset: -1.442 ms

# Below is generated by plot.py at 2019-11-24 14:22:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 15.850 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 15.850 ms
Loss rate: 0.13%
```

Run 2: Report of WebRTC media — Data Link

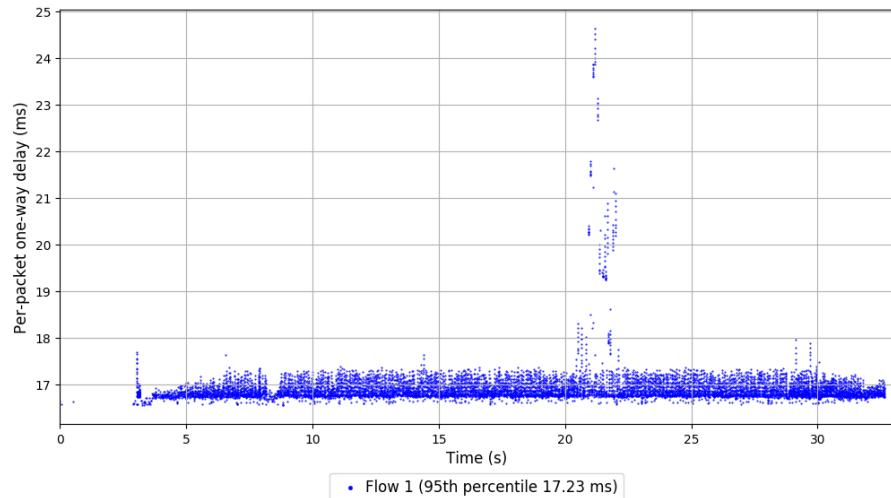
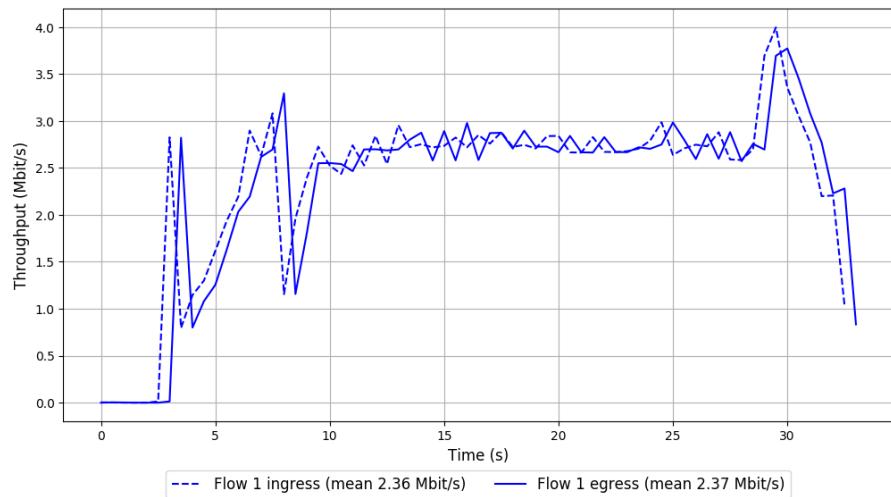


Run 3: Statistics of WebRTC media

```
Start at: 2019-11-24 12:53:34
End at: 2019-11-24 12:54:04
Local clock offset: 3.346 ms
Remote clock offset: -2.027 ms

# Below is generated by plot.py at 2019-11-24 14:22:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 17.230 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 17.230 ms
Loss rate: 0.13%
```

Run 3: Report of WebRTC media — Data Link

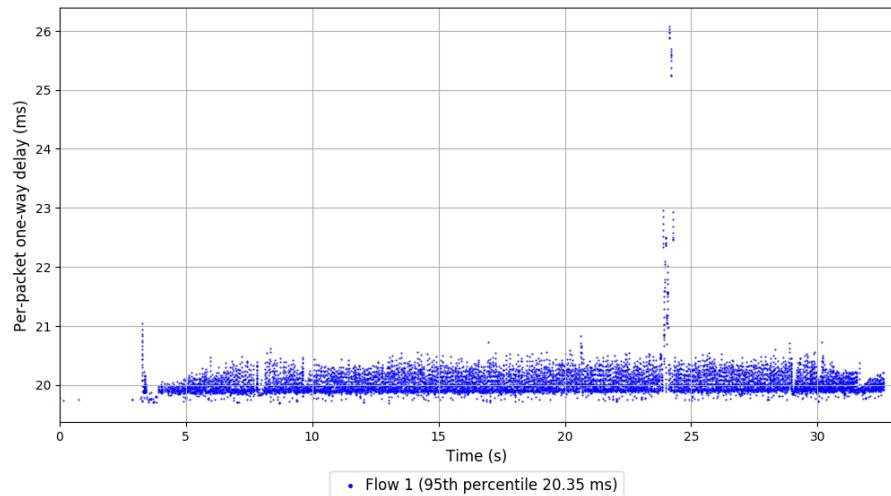
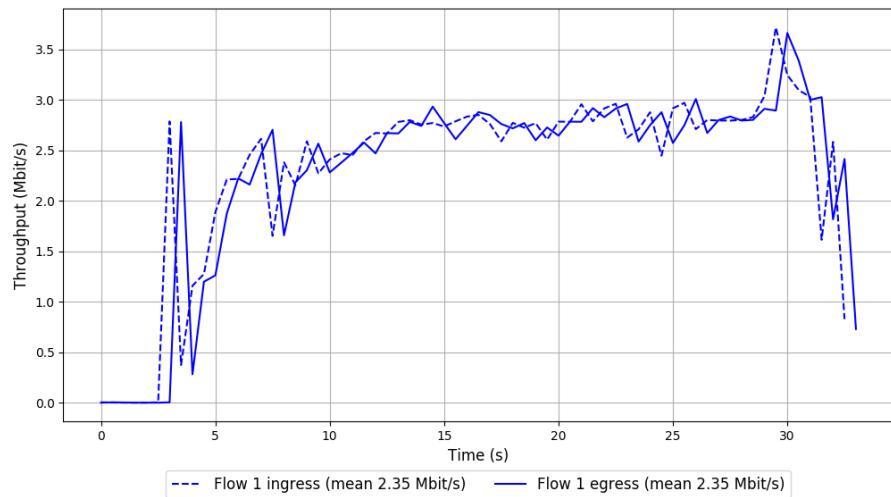


Run 4: Statistics of WebRTC media

```
Start at: 2019-11-24 13:22:58
End at: 2019-11-24 13:23:28
Local clock offset: 3.753 ms
Remote clock offset: -3.166 ms

# Below is generated by plot.py at 2019-11-24 14:22:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 20.347 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 20.347 ms
Loss rate: 0.17%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-11-24 13:51:41
End at: 2019-11-24 13:52:11
Local clock offset: 2.515 ms
Remote clock offset: -3.306 ms

# Below is generated by plot.py at 2019-11-24 14:22:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 17.997 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 17.997 ms
Loss rate: 0.18%
```

Run 5: Report of WebRTC media — Data Link

