

Pantheon Report

Generated at 2019-07-12 12:44:36 (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.

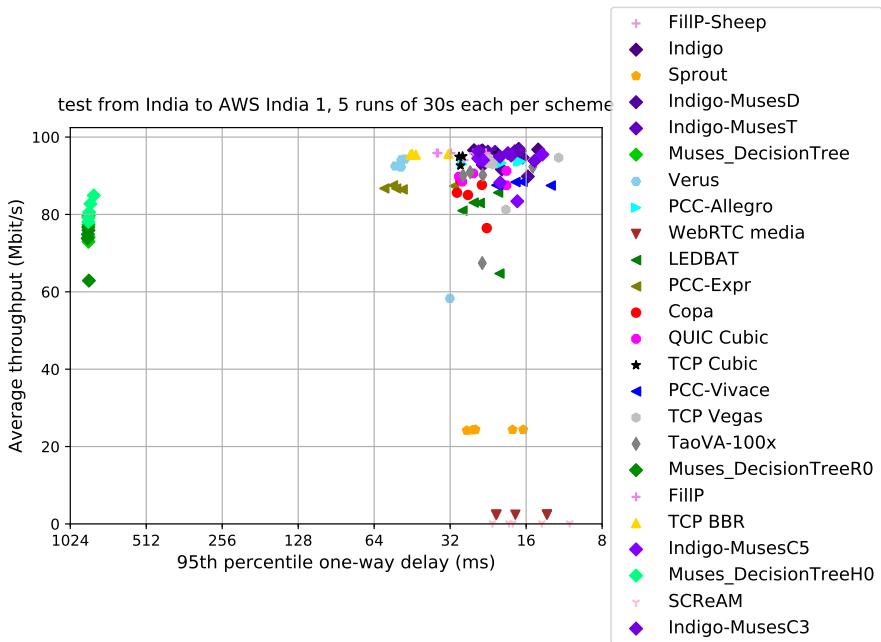
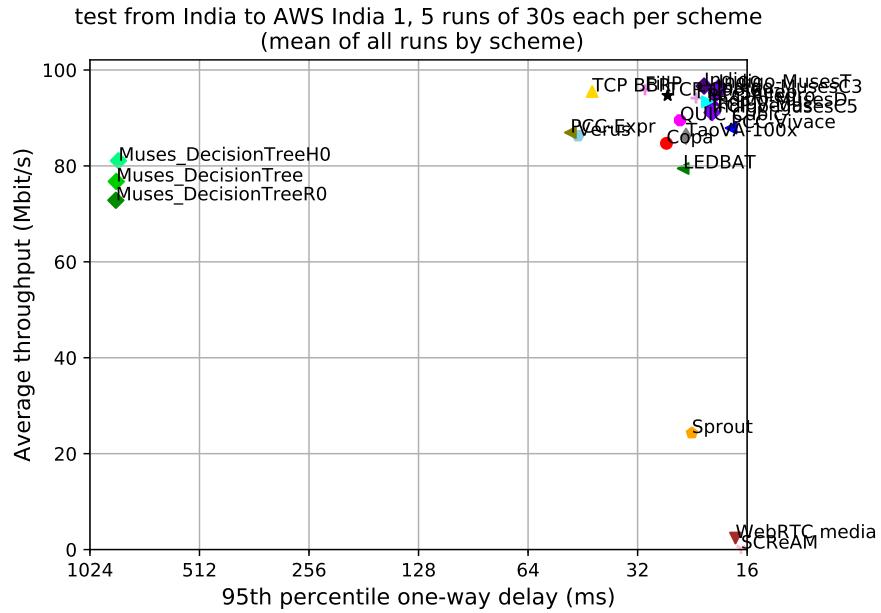
System info:

```
Linux 4.15.0-1041-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 @ 2076e1149a241f3edb4365d686df32342bf9561f
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 @ 8bb93ffff2b107204a92d8b72449fc0c55e15f00
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



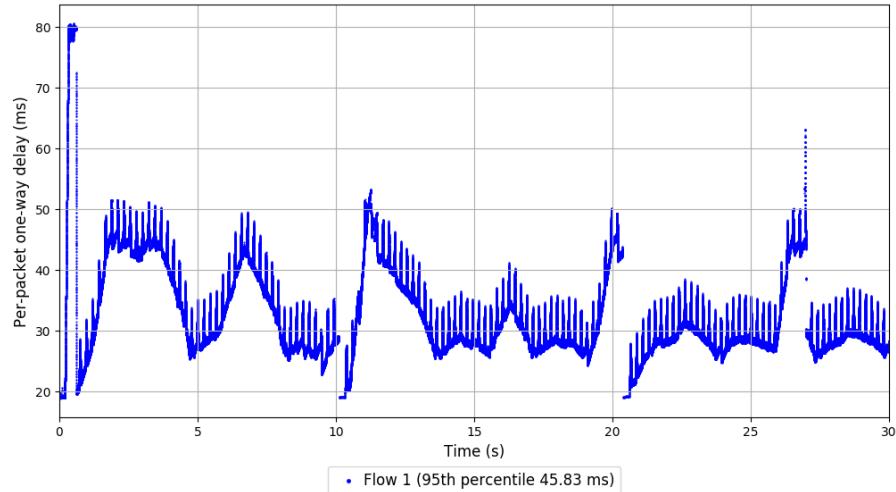
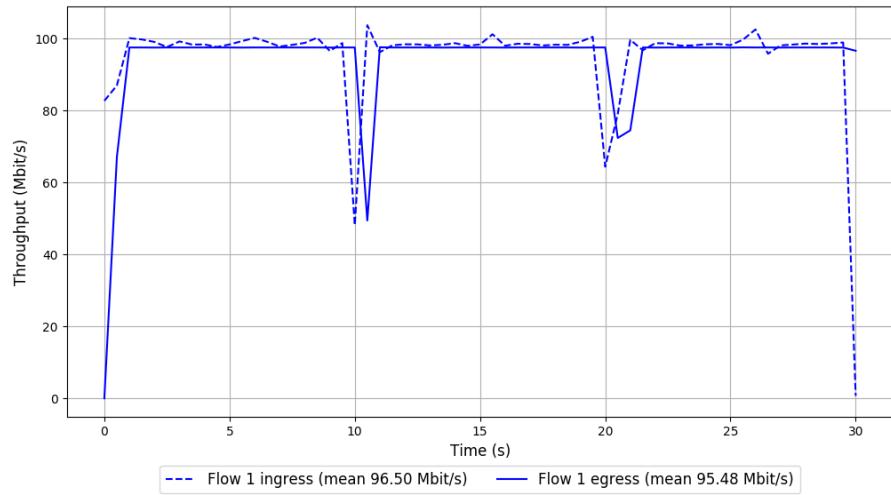
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	95.52	42.65	1.38
Copa	5	84.71	26.66	0.10
TCP Cubic	5	94.66	26.46	0.12
FillP	5	95.87	30.53	0.16
FillP-Sheep	5	94.15	22.11	0.10
Indigo	5	96.65	21.01	0.10
Indigo-MusesC3	5	95.23	19.41	0.12
Indigo-MusesC5	5	91.12	19.98	0.11
Indigo-MusesD	5	92.54	20.00	0.10
Indigo-MusesT	5	96.30	19.17	0.10
LEDBAT	5	79.47	23.99	0.14
Muses_DecisionTree	5	76.76	866.81	0.42
Muses_DecisionTreeH0	5	81.09	855.05	0.46
Muses_DecisionTreeR0	5	72.83	869.13	0.45
PCC-Allegro	5	93.37	20.57	0.10
PCC-Expr	5	86.95	48.97	0.16
QUIC Cubic	5	89.53	24.47	0.13
SCReAM	5	0.21	16.63	0.08
Sprout	5	24.31	22.70	0.11
TaoVA-100x	5	86.18	23.56	0.29
TCP Vegas	5	91.33	19.61	0.10
Verus	5	86.30	46.66	0.24
PCC-Vivace	5	87.89	17.72	0.10
WebRTC media	5	2.40	17.22	0.07

Run 1: Statistics of TCP BBR

```
Start at: 2019-07-12 10:17:06
End at: 2019-07-12 10:17:36
Local clock offset: -4.457 ms
Remote clock offset: -1.494 ms

# Below is generated by plot.py at 2019-07-12 12:28:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 45.827 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 45.827 ms
Loss rate: 1.15%
```

Run 1: Report of TCP BBR — Data Link

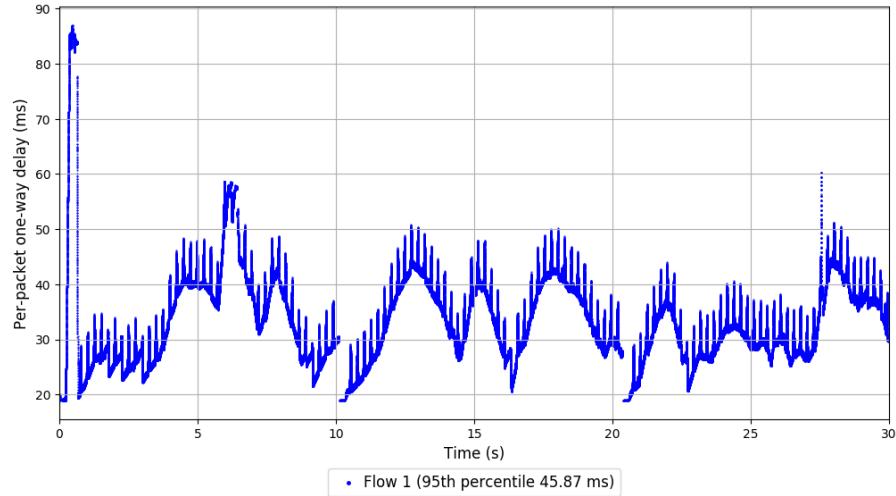
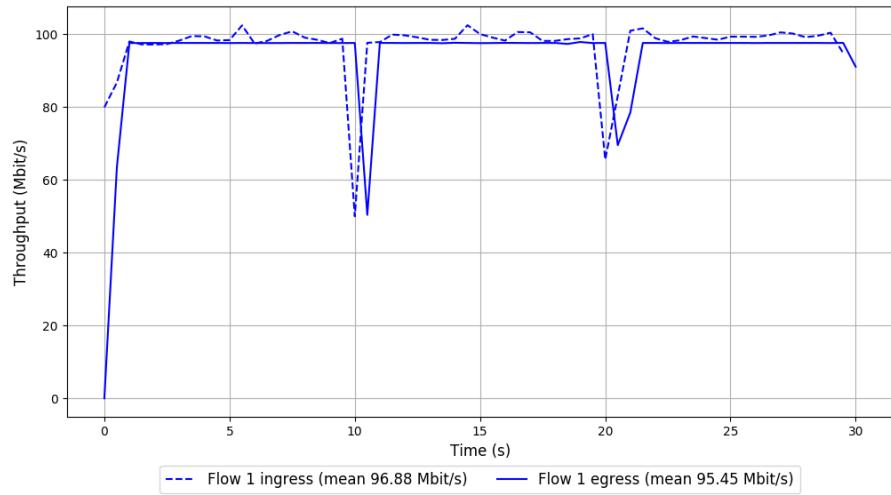


Run 2: Statistics of TCP BBR

```
Start at: 2019-07-12 10:45:26
End at: 2019-07-12 10:45:56
Local clock offset: -1.872 ms
Remote clock offset: 1.339 ms

# Below is generated by plot.py at 2019-07-12 12:28:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 45.867 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 45.867 ms
Loss rate: 1.59%
```

Run 2: Report of TCP BBR — Data Link

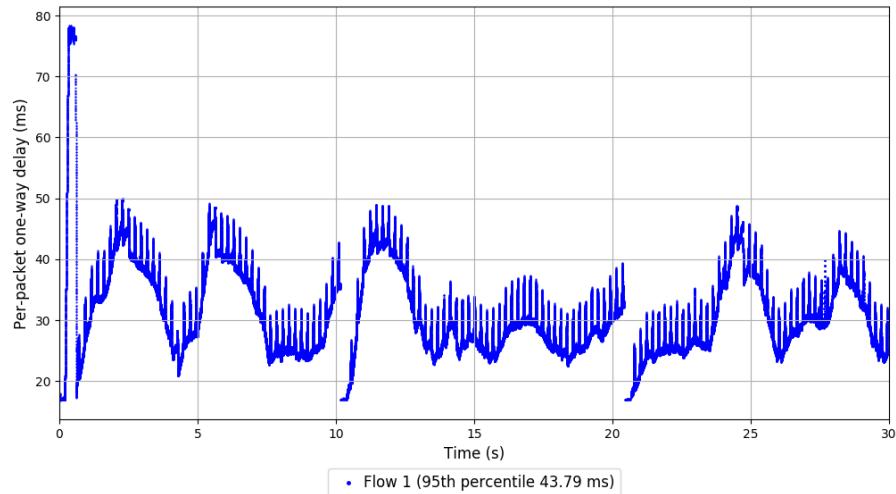
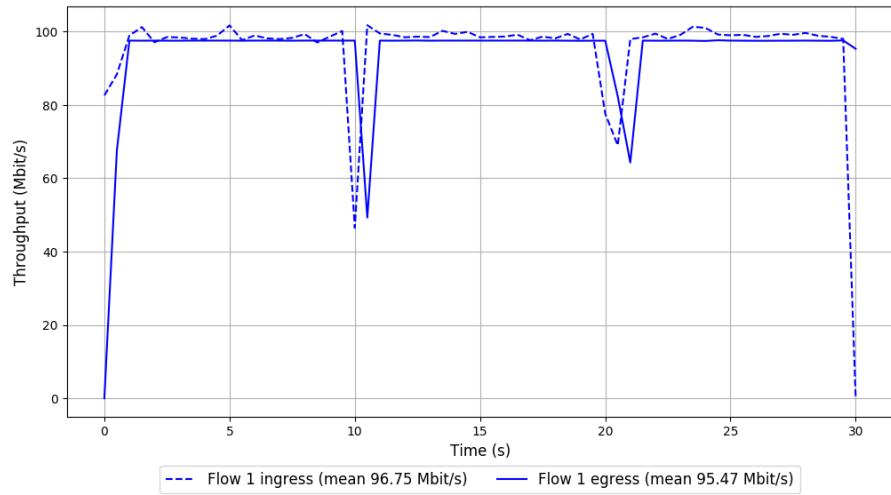


Run 3: Statistics of TCP BBR

```
Start at: 2019-07-12 11:13:51
End at: 2019-07-12 11:14:21
Local clock offset: 4.188 ms
Remote clock offset: 1.312 ms

# Below is generated by plot.py at 2019-07-12 12:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 43.789 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 43.789 ms
Loss rate: 1.42%
```

Run 3: Report of TCP BBR — Data Link

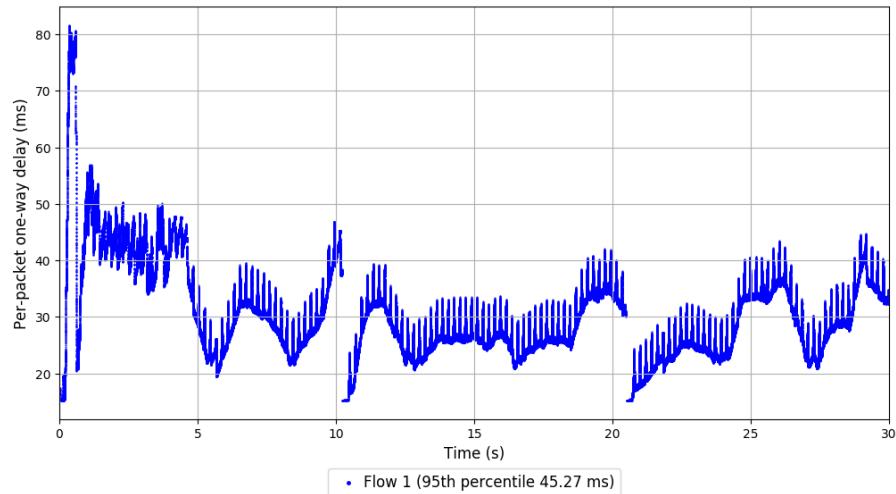
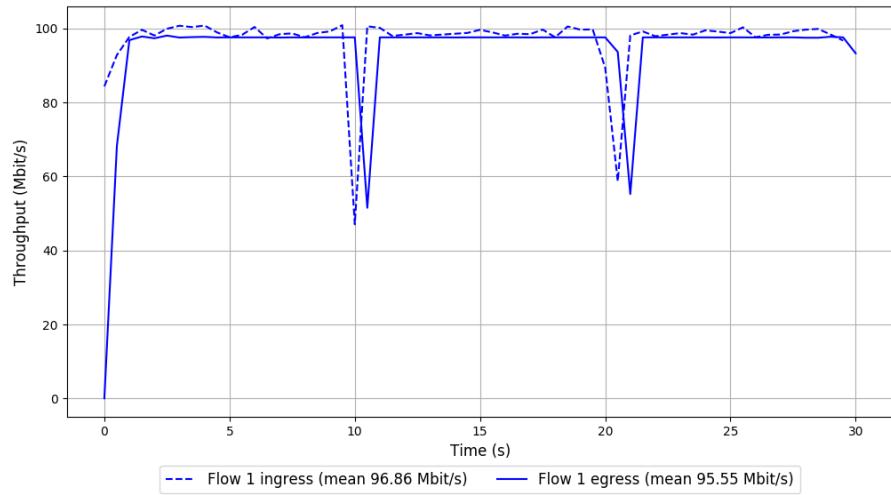


Run 4: Statistics of TCP BBR

```
Start at: 2019-07-12 11:42:39
End at: 2019-07-12 11:43:09
Local clock offset: 3.78 ms
Remote clock offset: 4.557 ms

# Below is generated by plot.py at 2019-07-12 12:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 45.266 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 45.266 ms
Loss rate: 1.44%
```

Run 4: Report of TCP BBR — Data Link

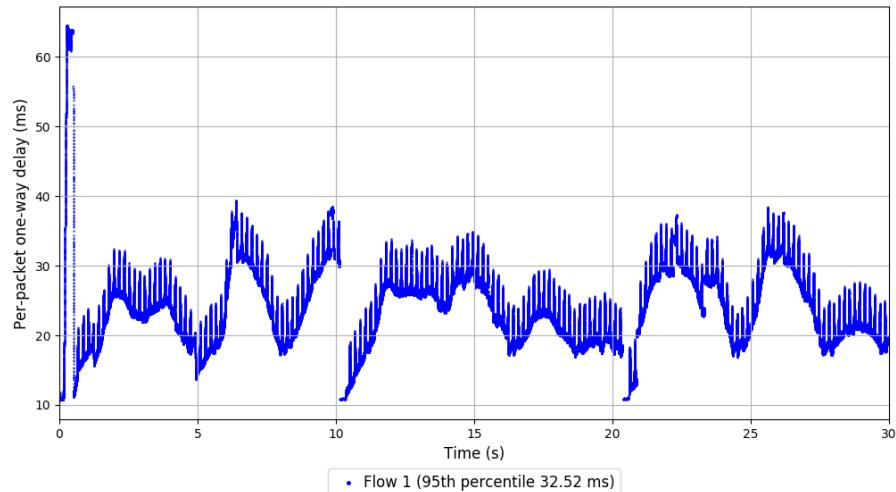
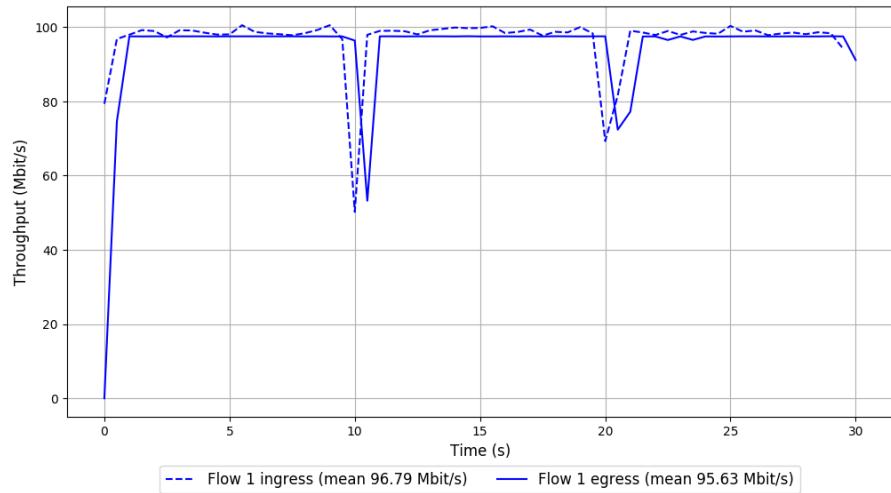


Run 5: Statistics of TCP BBR

```
Start at: 2019-07-12 12:11:34
End at: 2019-07-12 12:12:04
Local clock offset: -0.03 ms
Remote clock offset: 5.243 ms

# Below is generated by plot.py at 2019-07-12 12:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 32.518 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 32.518 ms
Loss rate: 1.28%
```

Run 5: Report of TCP BBR — Data Link

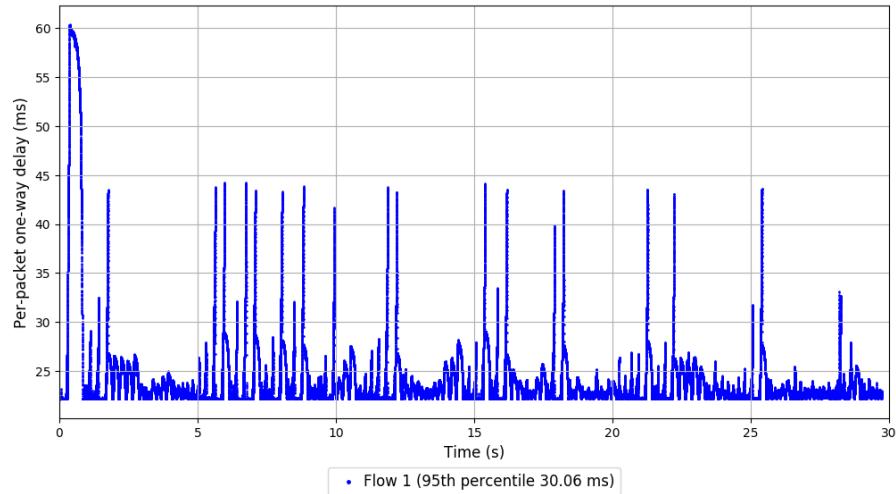
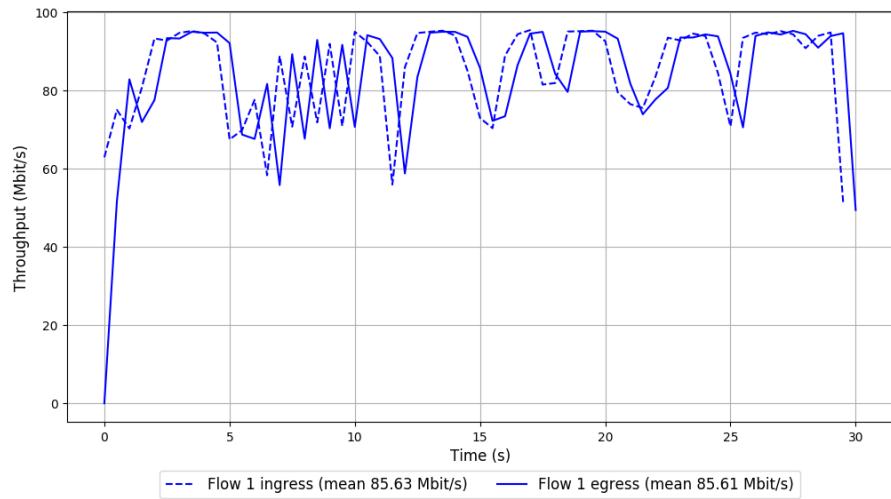


Run 1: Statistics of Copa

```
Start at: 2019-07-12 10:06:39
End at: 2019-07-12 10:07:09
Local clock offset: -3.991 ms
Remote clock offset: -2.662 ms

# Below is generated by plot.py at 2019-07-12 12:29:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.61 Mbit/s
95th percentile per-packet one-way delay: 30.064 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 85.61 Mbit/s
95th percentile per-packet one-way delay: 30.064 ms
Loss rate: 0.12%
```

Run 1: Report of Copa — Data Link

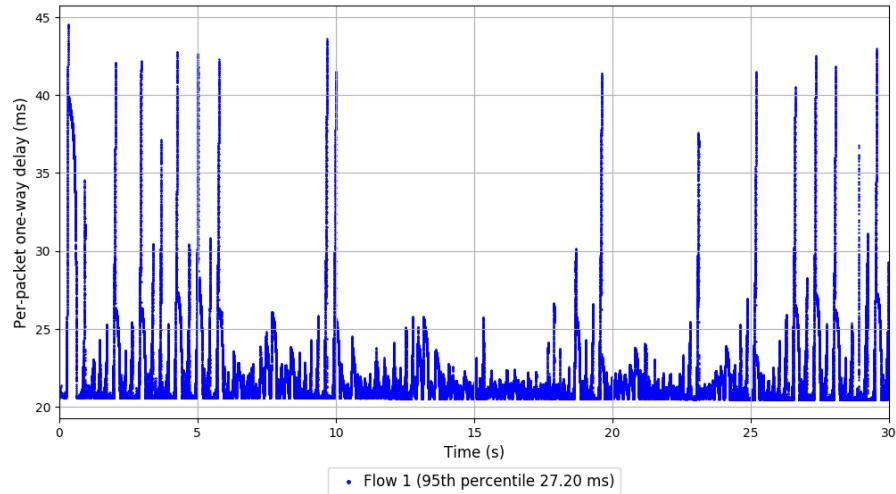
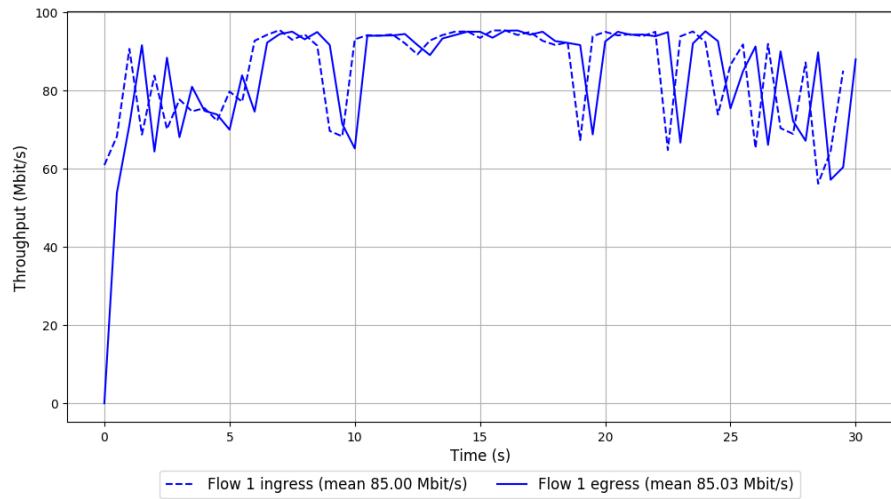


Run 2: Statistics of Copa

```
Start at: 2019-07-12 10:34:55
End at: 2019-07-12 10:35:25
Local clock offset: -3.411 ms
Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2019-07-12 12:29:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.03 Mbit/s
95th percentile per-packet one-way delay: 27.203 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 85.03 Mbit/s
95th percentile per-packet one-way delay: 27.203 ms
Loss rate: 0.06%
```

Run 2: Report of Copa — Data Link

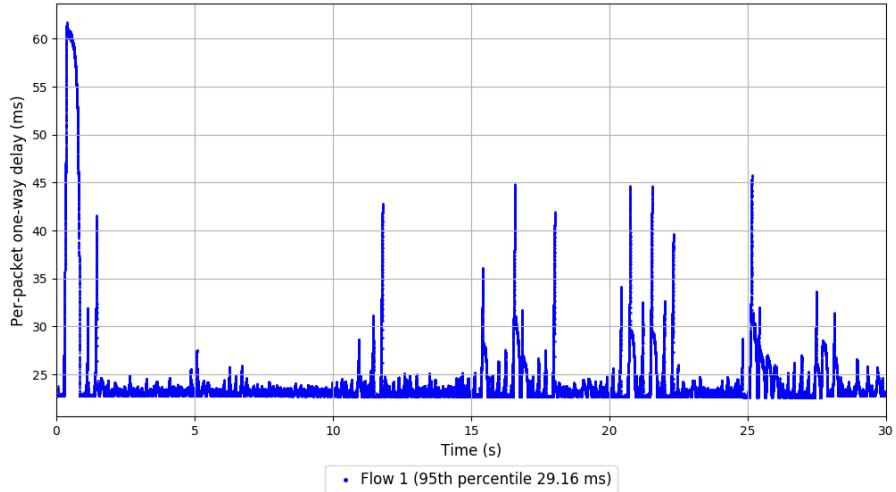
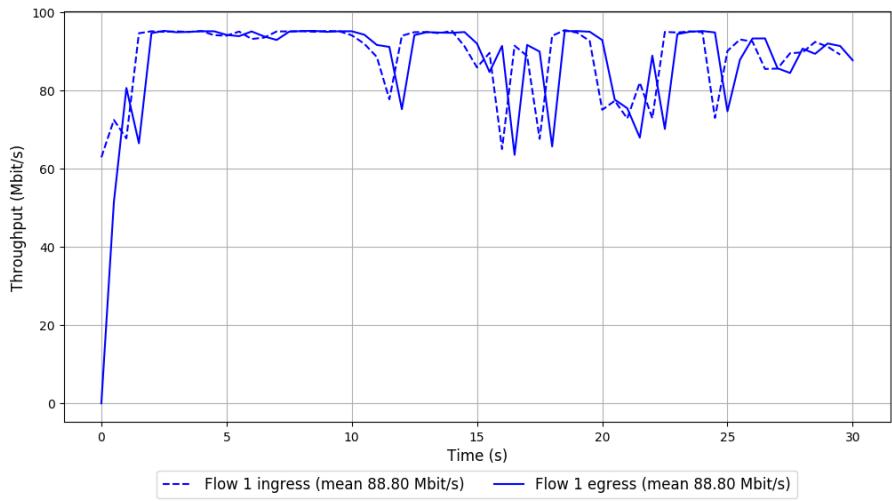


Run 3: Statistics of Copa

```
Start at: 2019-07-12 11:03:07
End at: 2019-07-12 11:03:37
Local clock offset: 1.143 ms
Remote clock offset: -1.298 ms

# Below is generated by plot.py at 2019-07-12 12:29:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.80 Mbit/s
95th percentile per-packet one-way delay: 29.164 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 88.80 Mbit/s
95th percentile per-packet one-way delay: 29.164 ms
Loss rate: 0.11%
```

Run 3: Report of Copa — Data Link

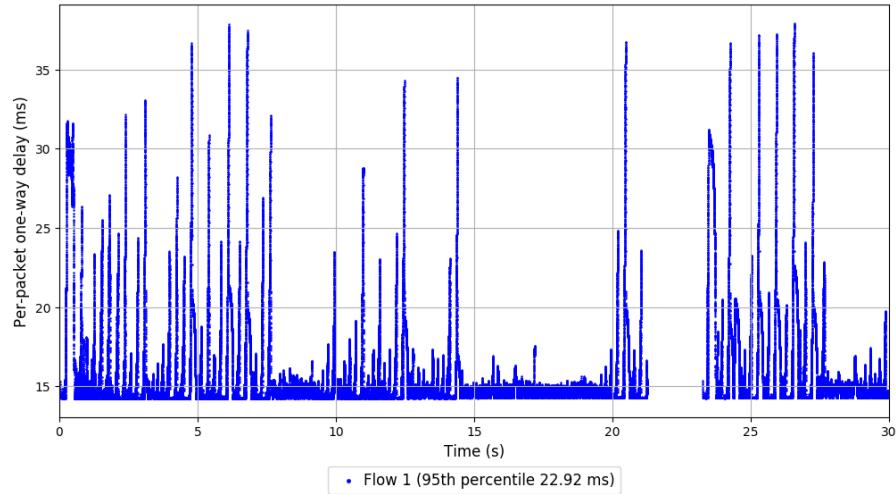
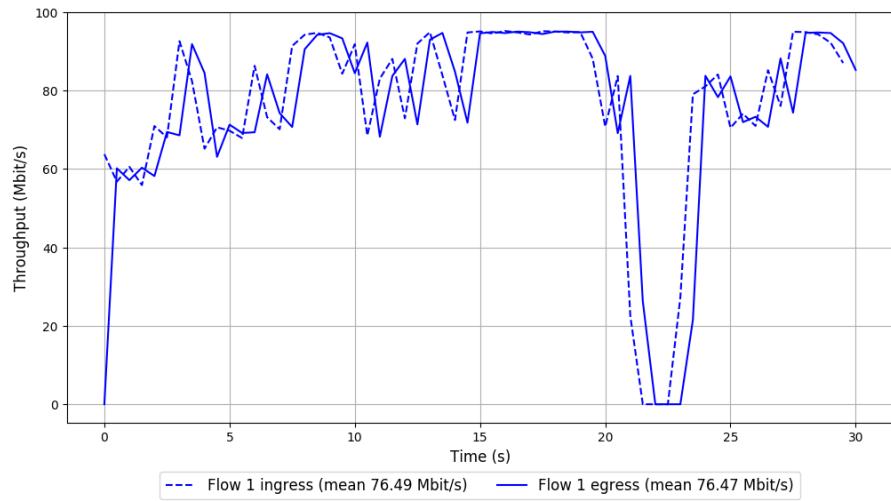


Run 4: Statistics of Copa

```
Start at: 2019-07-12 11:31:53
End at: 2019-07-12 11:32:23
Local clock offset: 4.745 ms
Remote clock offset: 3.362 ms

# Below is generated by plot.py at 2019-07-12 12:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.47 Mbit/s
95th percentile per-packet one-way delay: 22.918 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 76.47 Mbit/s
95th percentile per-packet one-way delay: 22.918 ms
Loss rate: 0.10%
```

Run 4: Report of Copa — Data Link

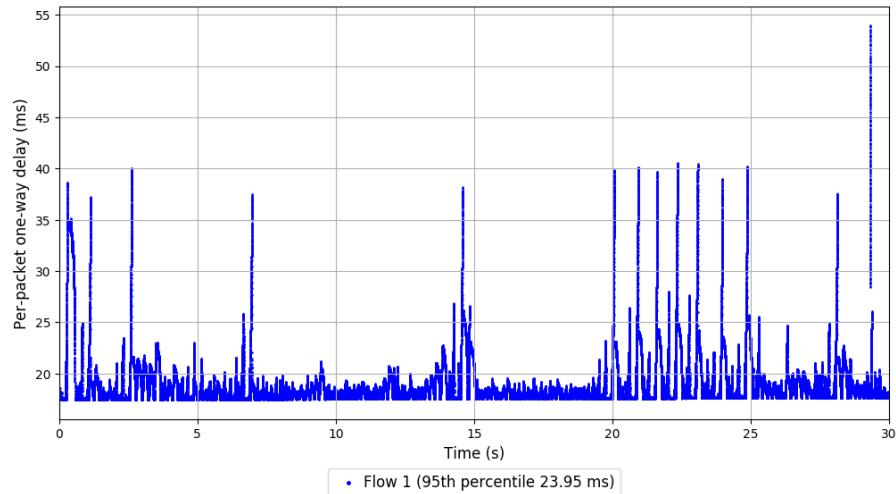
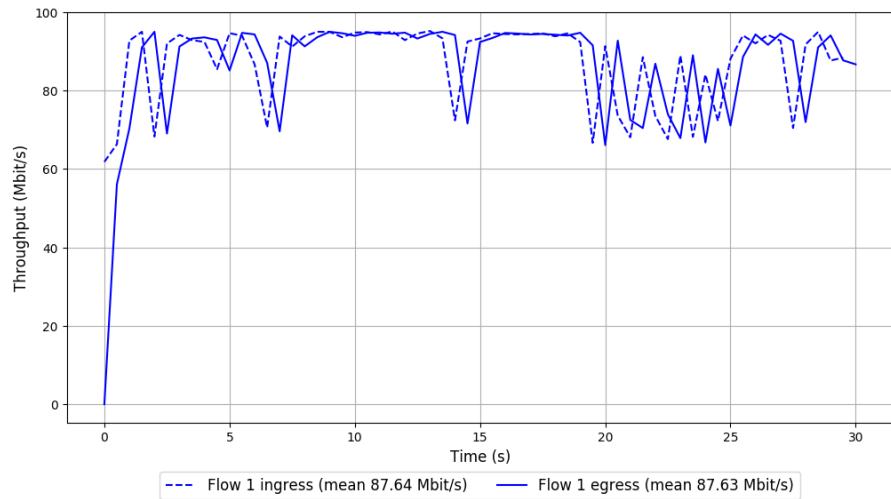


Run 5: Statistics of Copa

```
Start at: 2019-07-12 12:00:46
End at: 2019-07-12 12:01:16
Local clock offset: 3.43 ms
Remote clock offset: 2.529 ms

# Below is generated by plot.py at 2019-07-12 12:30:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 23.954 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 23.954 ms
Loss rate: 0.10%
```

Run 5: Report of Copa — Data Link

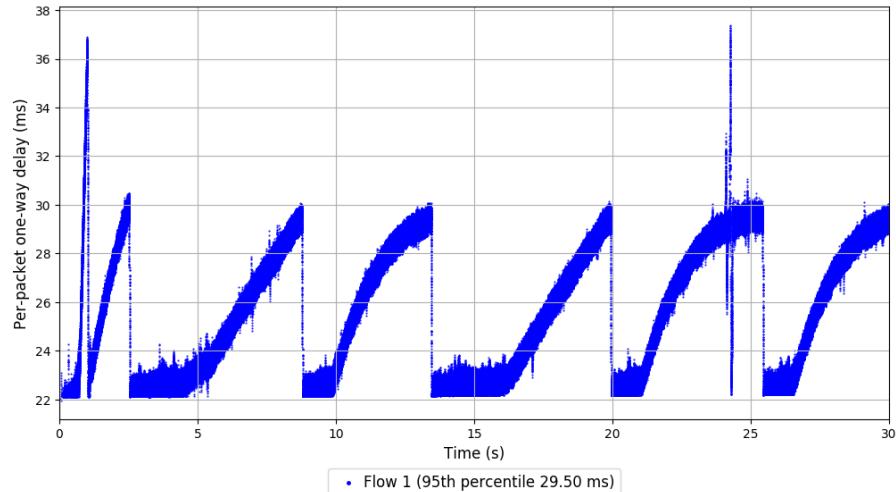
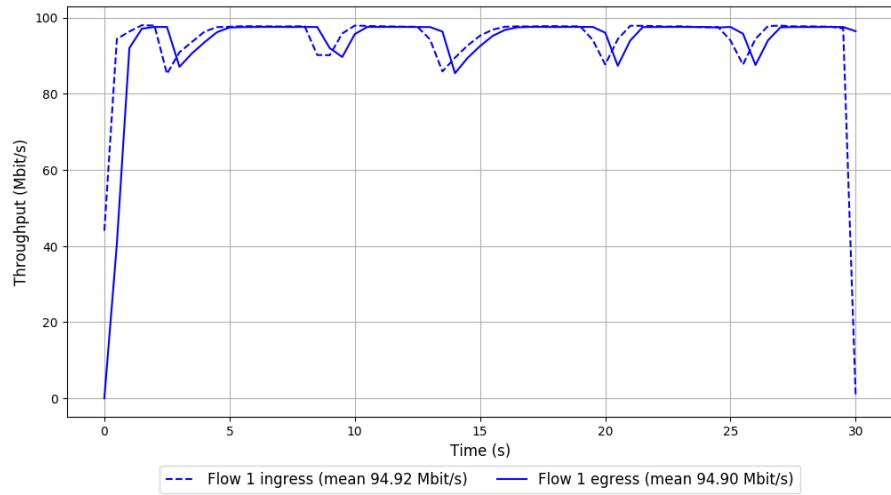


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-07-12 10:24:17
End at: 2019-07-12 10:24:47
Local clock offset: -5.92 ms
Remote clock offset: -0.712 ms

# Below is generated by plot.py at 2019-07-12 12:30:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 29.499 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 29.499 ms
Loss rate: 0.13%
```

Run 1: Report of TCP Cubic — Data Link

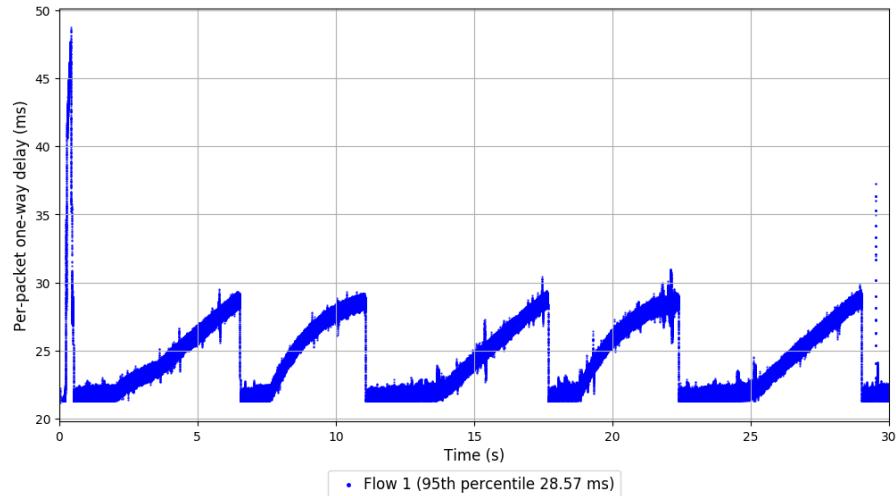
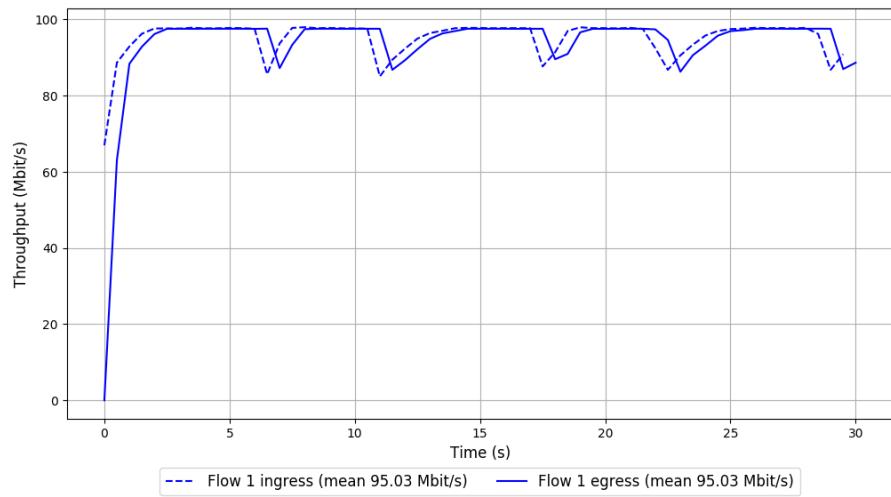


Run 2: Statistics of TCP Cubic

```
Start at: 2019-07-12 10:52:34
End at: 2019-07-12 10:53:04
Local clock offset: -1.324 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-07-12 12:30:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.03 Mbit/s
95th percentile per-packet one-way delay: 28.574 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.03 Mbit/s
95th percentile per-packet one-way delay: 28.574 ms
Loss rate: 0.11%
```

Run 2: Report of TCP Cubic — Data Link

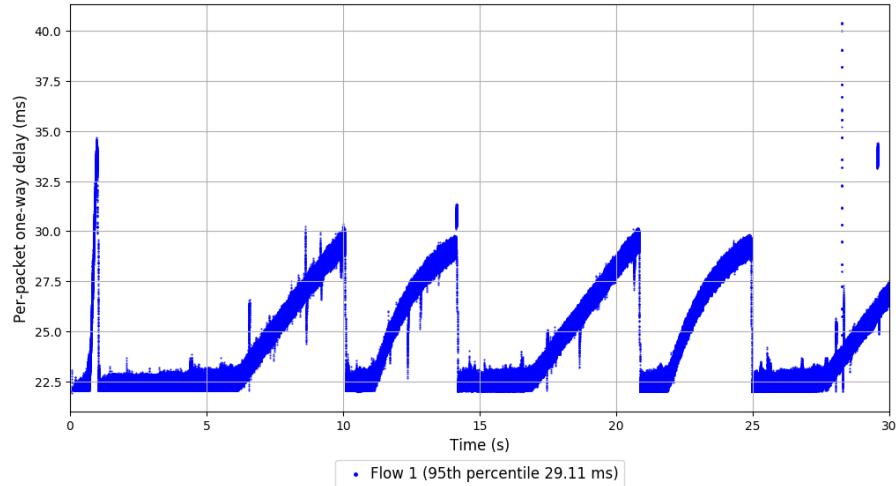
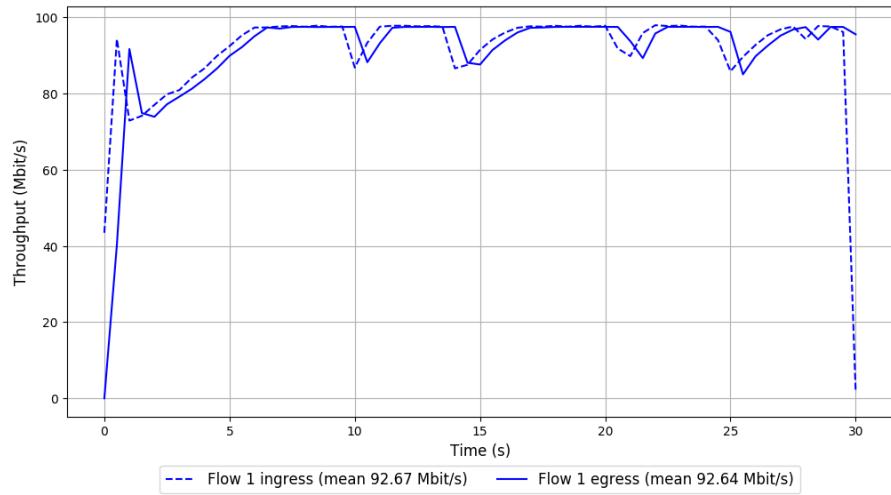


Run 3: Statistics of TCP Cubic

```
Start at: 2019-07-12 11:21:11
End at: 2019-07-12 11:21:41
Local clock offset: 4.692 ms
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2019-07-12 12:30:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 29.107 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 29.107 ms
Loss rate: 0.14%
```

Run 3: Report of TCP Cubic — Data Link

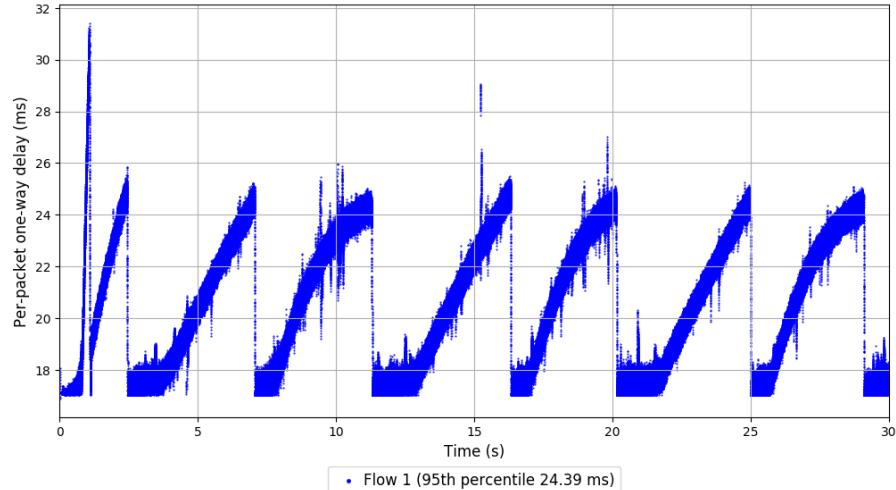
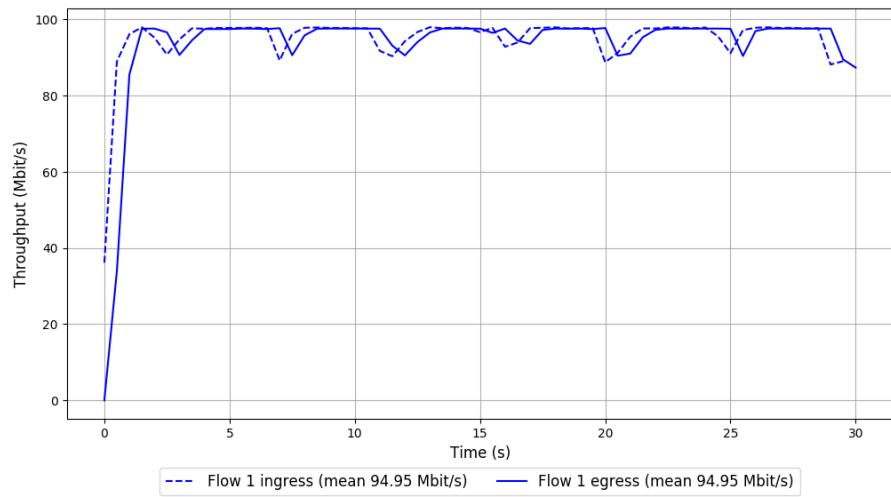


Run 4: Statistics of TCP Cubic

```
Start at: 2019-07-12 11:49:48
End at: 2019-07-12 11:50:18
Local clock offset: 3.368 ms
Remote clock offset: 2.118 ms

# Below is generated by plot.py at 2019-07-12 12:30:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.95 Mbit/s
95th percentile per-packet one-way delay: 24.390 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.95 Mbit/s
95th percentile per-packet one-way delay: 24.390 ms
Loss rate: 0.09%
```

Run 4: Report of TCP Cubic — Data Link

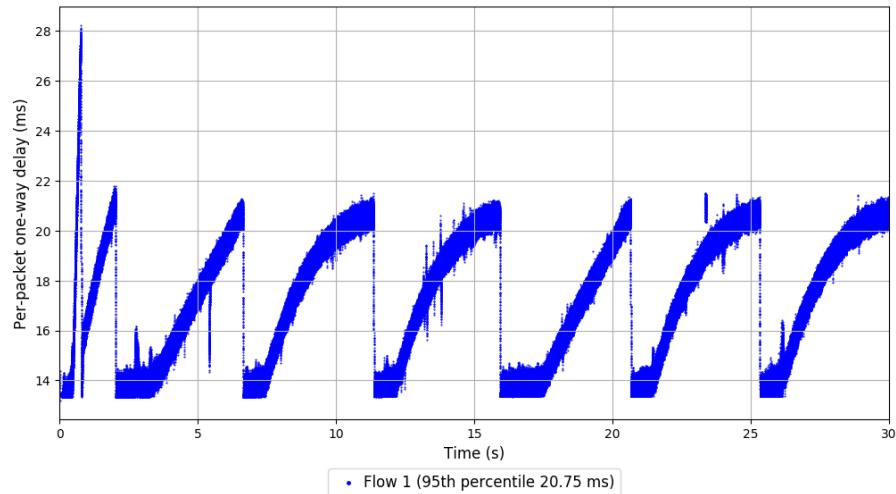
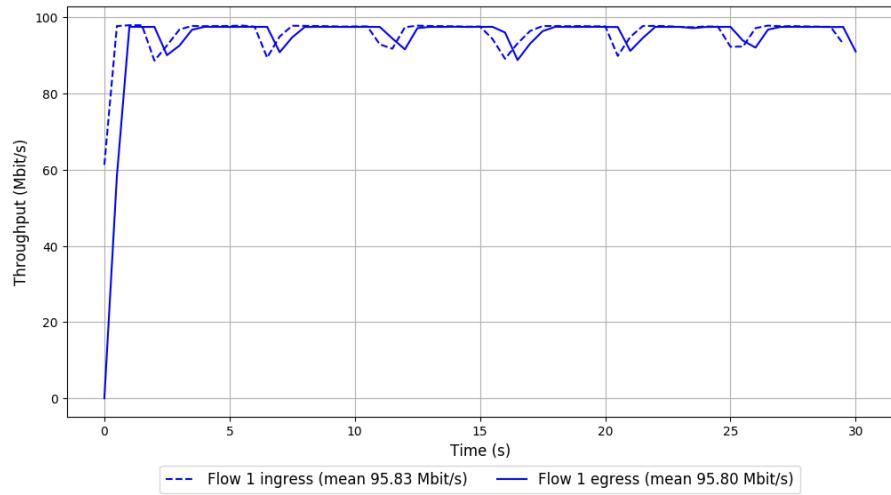


Run 5: Statistics of TCP Cubic

```
Start at: 2019-07-12 12:18:45
End at: 2019-07-12 12:19:15
Local clock offset: -1.45 ms
Remote clock offset: 2.203 ms

# Below is generated by plot.py at 2019-07-12 12:30:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 20.746 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 20.746 ms
Loss rate: 0.11%
```

Run 5: Report of TCP Cubic — Data Link

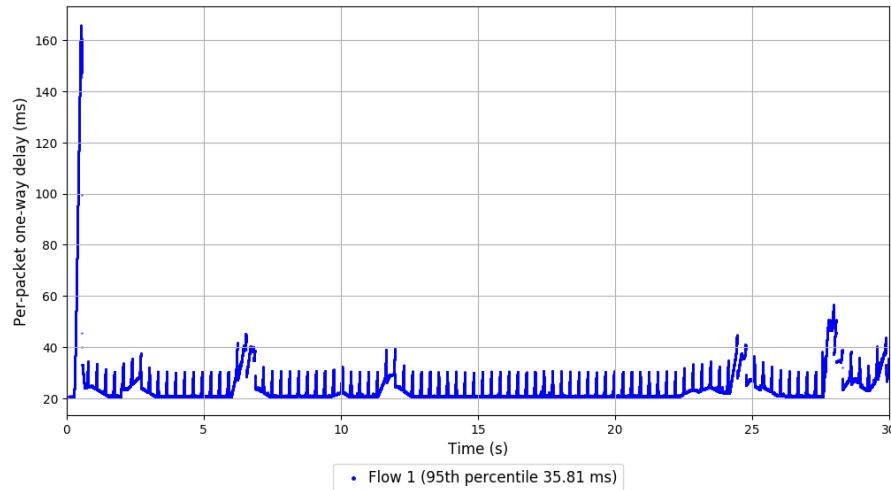
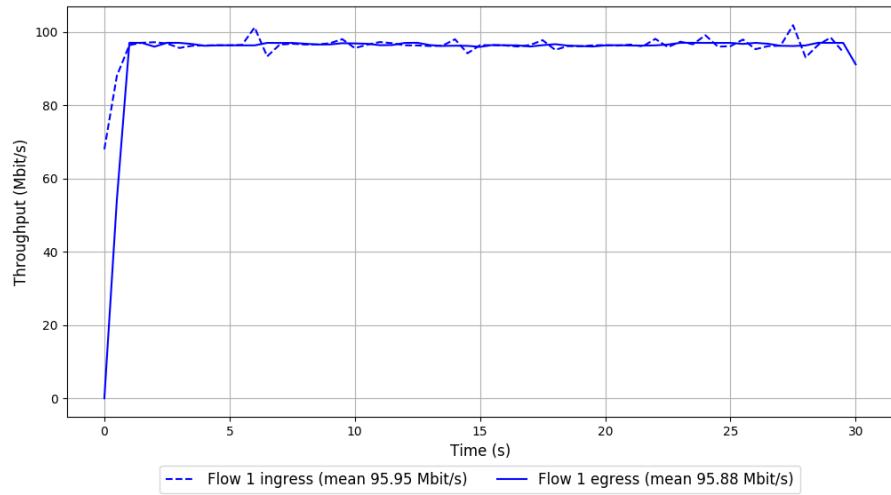


```
Run 1: Statistics of FillP
```

```
Start at: 2019-07-12 10:15:54
End at: 2019-07-12 10:16:24
Local clock offset: -4.432 ms
Remote clock offset: 0.472 ms

# Below is generated by plot.py at 2019-07-12 12:31:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.88 Mbit/s
95th percentile per-packet one-way delay: 35.807 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 95.88 Mbit/s
95th percentile per-packet one-way delay: 35.807 ms
Loss rate: 0.18%
```

Run 1: Report of FillP — Data Link

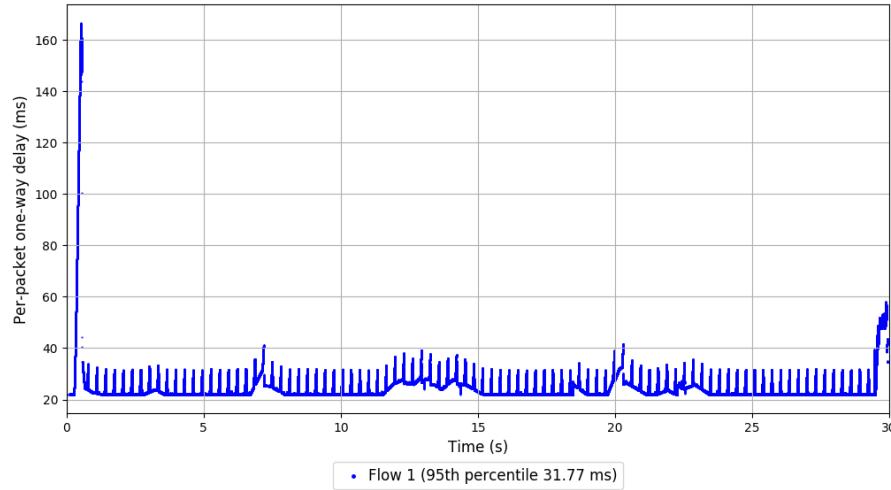
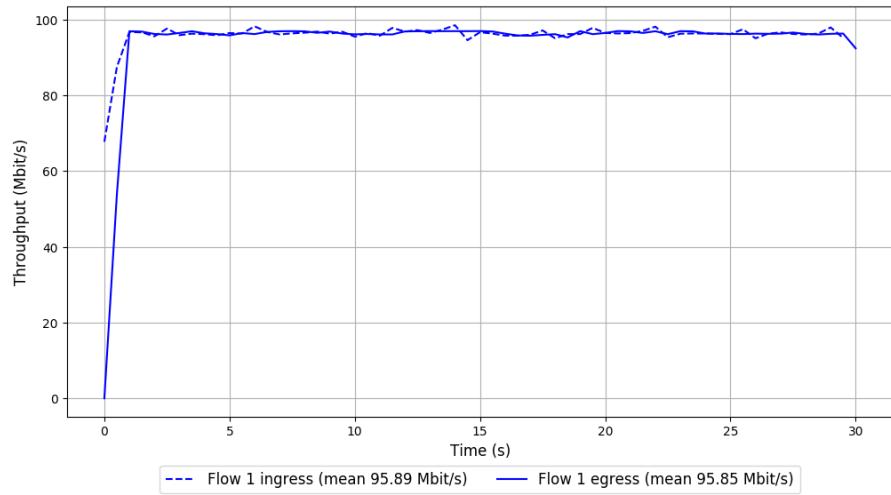


Run 2: Statistics of FillP

```
Start at: 2019-07-12 10:44:17
End at: 2019-07-12 10:44:47
Local clock offset: -2.241 ms
Remote clock offset: -0.8 ms

# Below is generated by plot.py at 2019-07-12 12:31:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 31.771 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 31.771 ms
Loss rate: 0.15%
```

Run 2: Report of FillP — Data Link

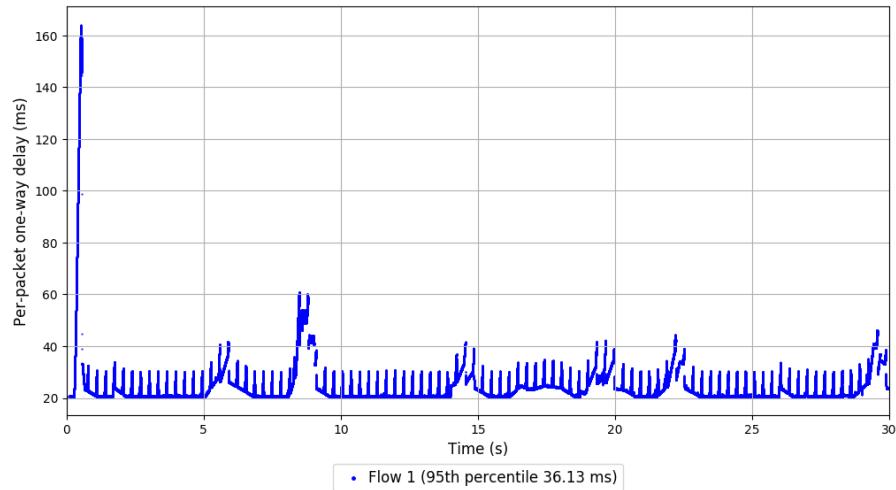
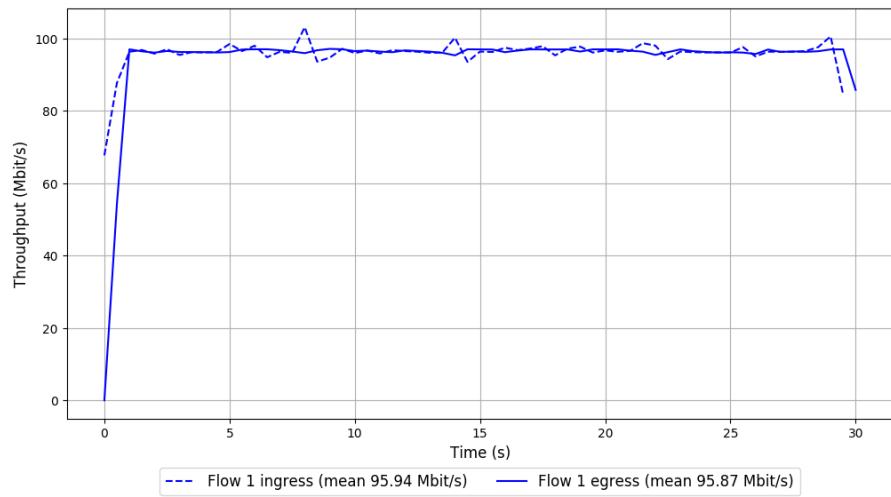


Run 3: Statistics of FillP

```
Start at: 2019-07-12 11:12:41
End at: 2019-07-12 11:13:11
Local clock offset: 2.262 ms
Remote clock offset: -0.269 ms

# Below is generated by plot.py at 2019-07-12 12:31:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 36.133 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 36.133 ms
Loss rate: 0.18%
```

Run 3: Report of FillP — Data Link

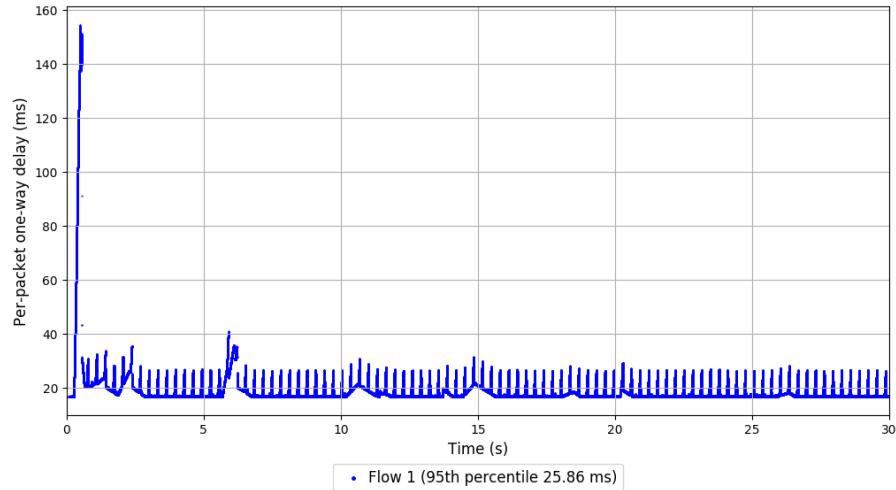
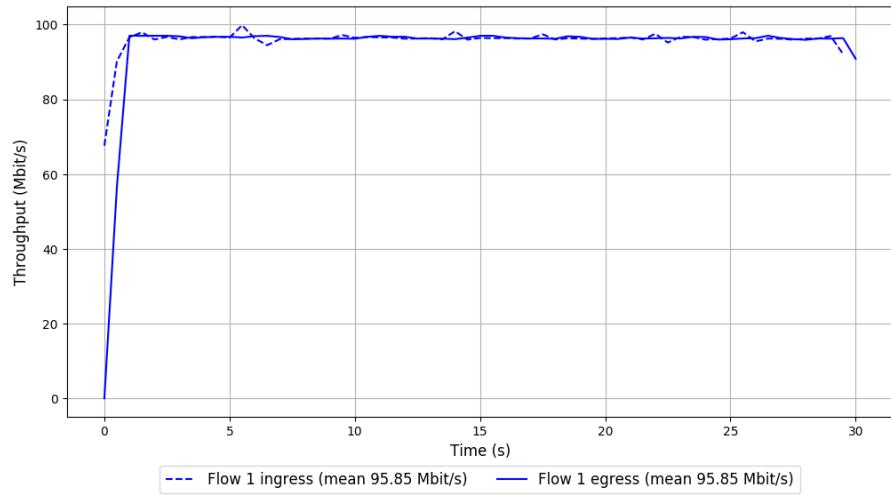


Run 4: Statistics of FillP

```
Start at: 2019-07-12 11:41:11
End at: 2019-07-12 11:41:41
Local clock offset: 3.18 ms
Remote clock offset: 2.352 ms

# Below is generated by plot.py at 2019-07-12 12:31:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 25.864 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 25.864 ms
Loss rate: 0.09%
```

Run 4: Report of FillP — Data Link

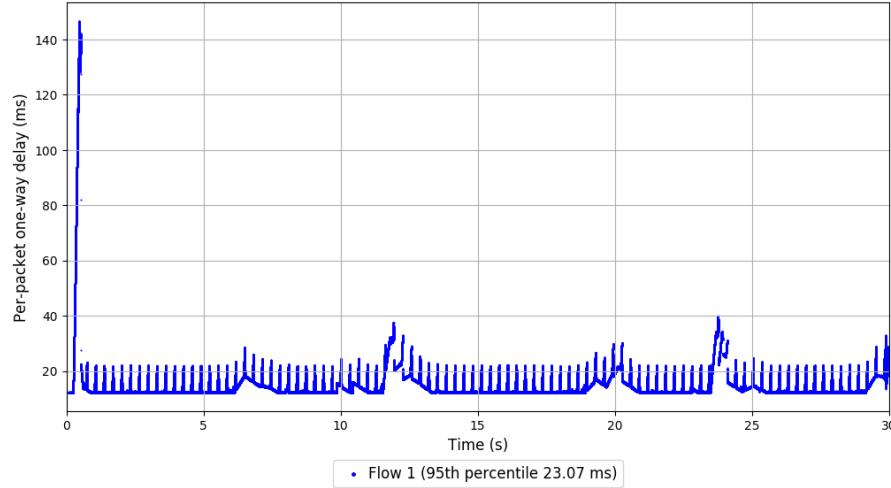
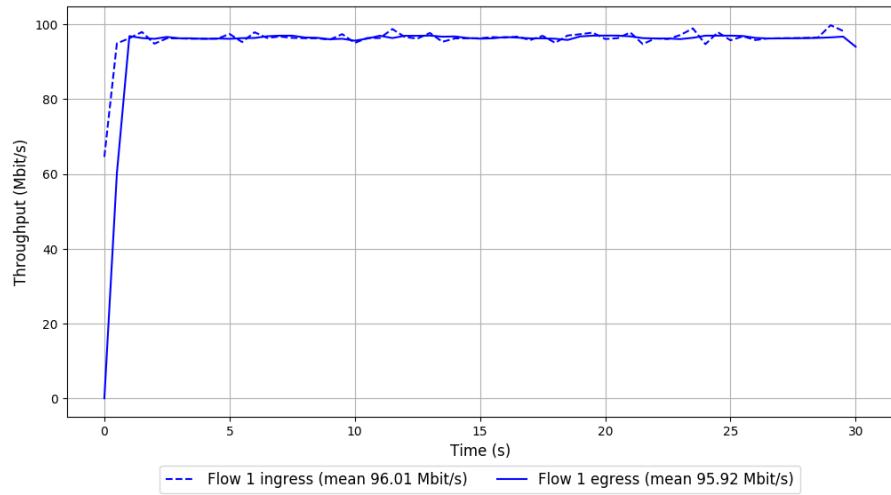


Run 5: Statistics of FillP

```
Start at: 2019-07-12 12:10:24
End at: 2019-07-12 12:10:54
Local clock offset: -0.2 ms
Remote clock offset: 3.764 ms

# Below is generated by plot.py at 2019-07-12 12:31:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 23.069 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 23.069 ms
Loss rate: 0.18%
```

Run 5: Report of FillP — Data Link

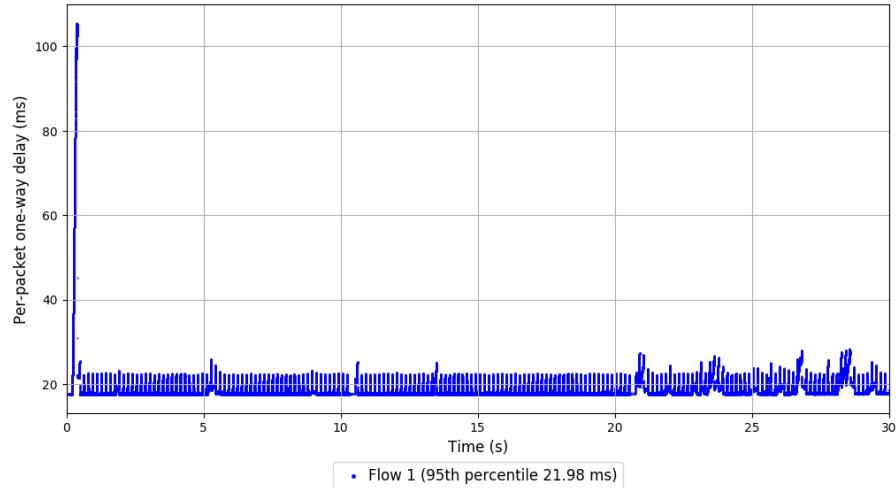
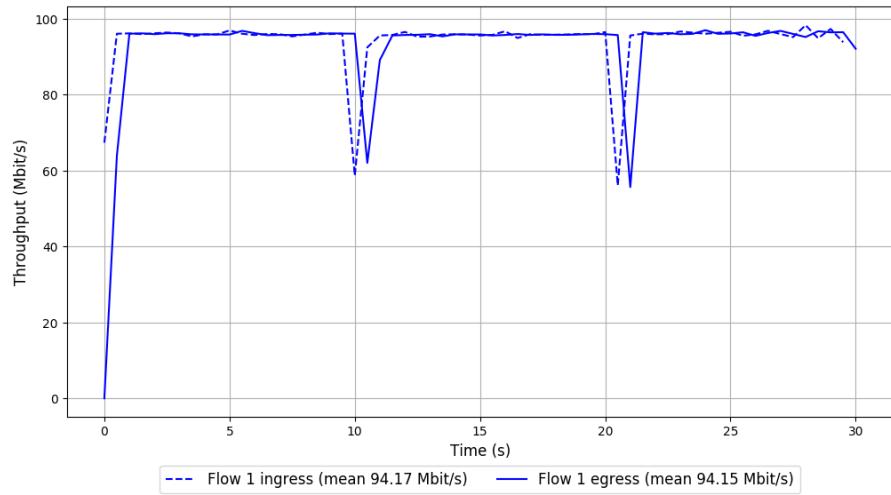


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-07-12 10:18:19
End at: 2019-07-12 10:18:49
Local clock offset: -5.2 ms
Remote clock offset: -1.177 ms

# Below is generated by plot.py at 2019-07-12 12:32:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 21.982 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 21.982 ms
Loss rate: 0.11%
```

Run 1: Report of FillP-Sheep — Data Link

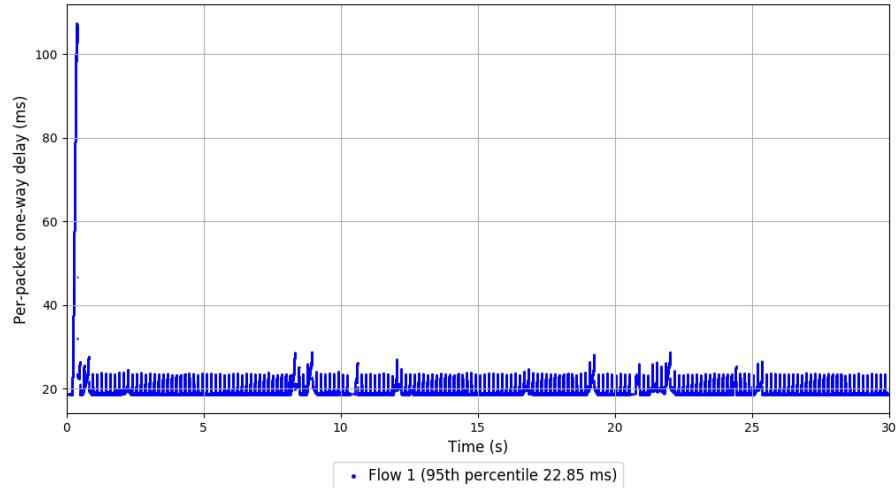
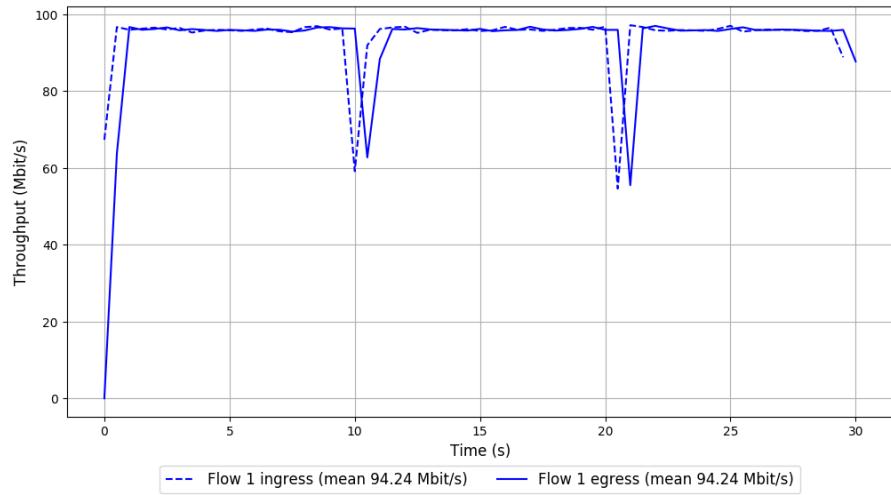


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-07-12 10:46:39
End at: 2019-07-12 10:47:09
Local clock offset: -0.489 ms
Remote clock offset: -0.431 ms

# Below is generated by plot.py at 2019-07-12 12:32:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.24 Mbit/s
95th percentile per-packet one-way delay: 22.848 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.24 Mbit/s
95th percentile per-packet one-way delay: 22.848 ms
Loss rate: 0.09%
```

Run 2: Report of FillP-Sheep — Data Link

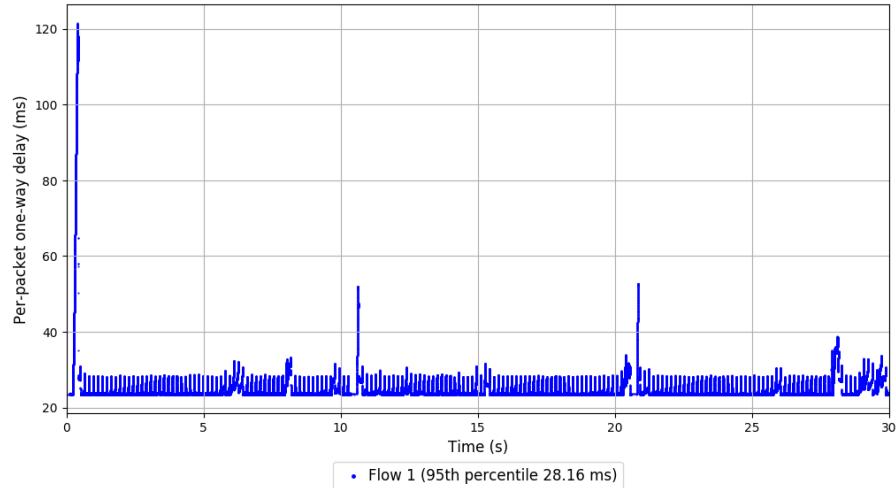
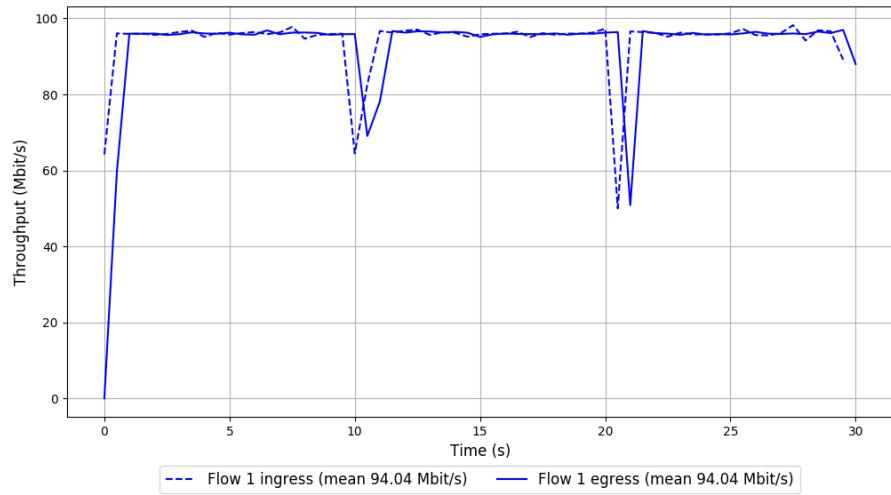


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-07-12 11:15:08
End at: 2019-07-12 11:15:38
Local clock offset: 4.333 ms
Remote clock offset: -1.465 ms

# Below is generated by plot.py at 2019-07-12 12:32:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.04 Mbit/s
95th percentile per-packet one-way delay: 28.162 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 94.04 Mbit/s
95th percentile per-packet one-way delay: 28.162 ms
Loss rate: 0.11%
```

Run 3: Report of FillP-Sheep — Data Link

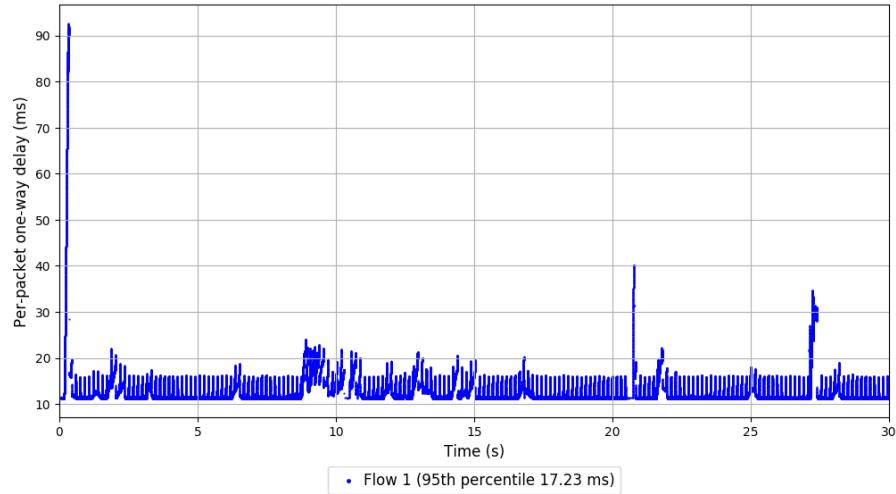
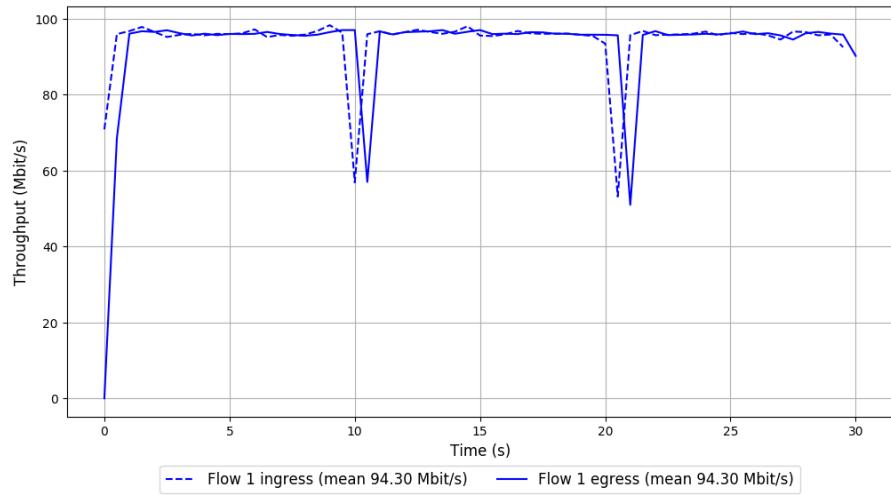


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-07-12 11:43:54
End at: 2019-07-12 11:44:24
Local clock offset: 2.733 ms
Remote clock offset: 4.107 ms

# Below is generated by plot.py at 2019-07-12 12:32:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 17.235 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 17.235 ms
Loss rate: 0.08%
```

Run 4: Report of FillP-Sheep — Data Link

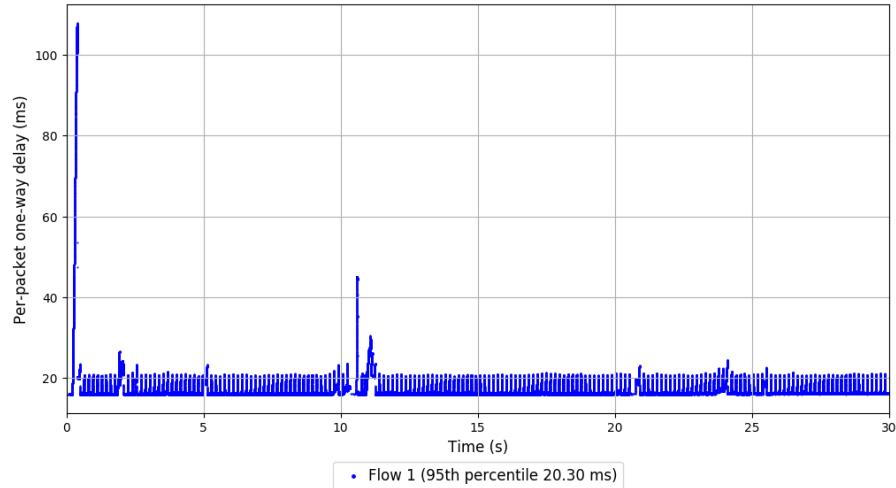
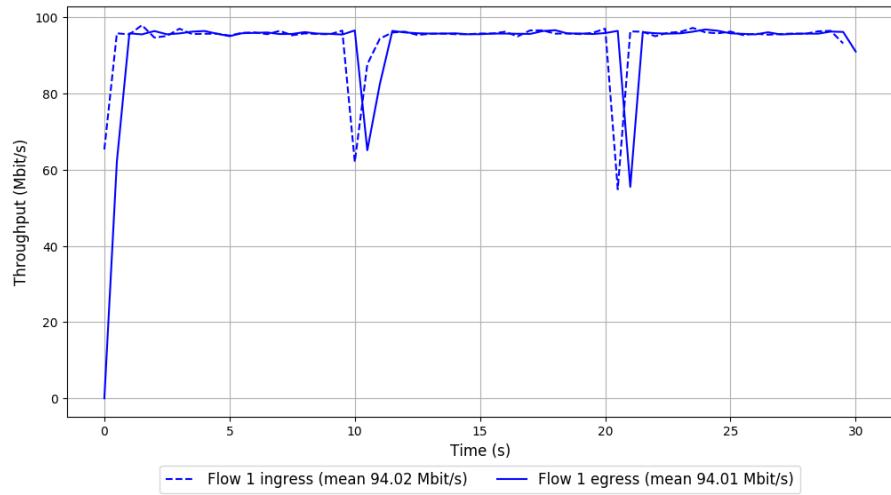


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-07-12 12:12:46
End at: 2019-07-12 12:13:16
Local clock offset: -0.828 ms
Remote clock offset: 2.529 ms

# Below is generated by plot.py at 2019-07-12 12:32:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 20.304 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 20.304 ms
Loss rate: 0.10%
```

Run 5: Report of FillP-Sheep — Data Link

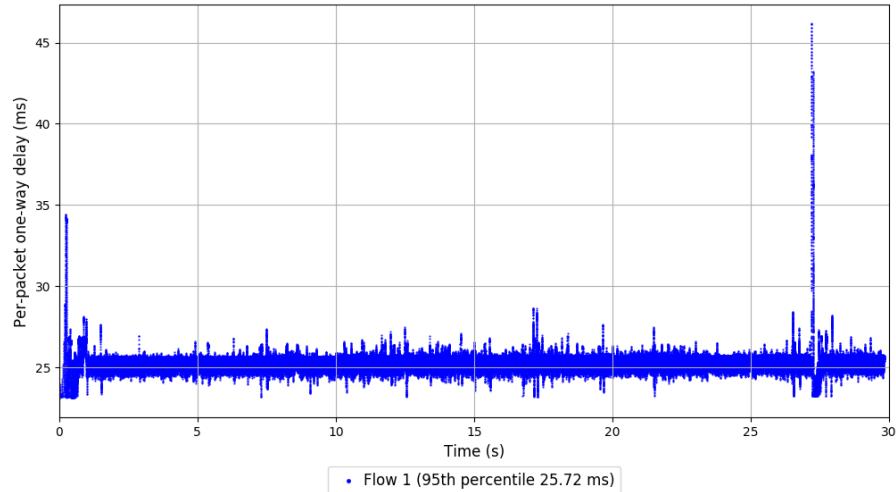
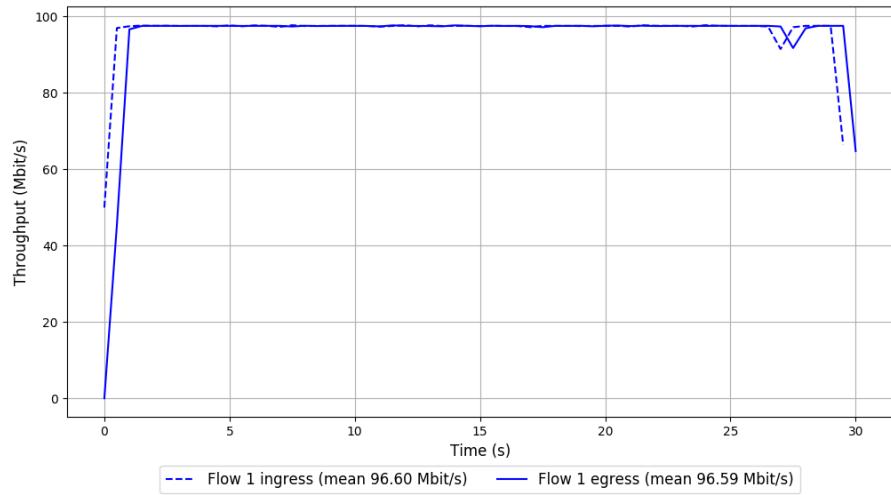


Run 1: Statistics of Indigo

```
Start at: 2019-07-12 10:23:04
End at: 2019-07-12 10:23:34
Local clock offset: -5.007 ms
Remote clock offset: -0.894 ms

# Below is generated by plot.py at 2019-07-12 12:32:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 25.722 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 25.722 ms
Loss rate: 0.12%
```

Run 1: Report of Indigo — Data Link

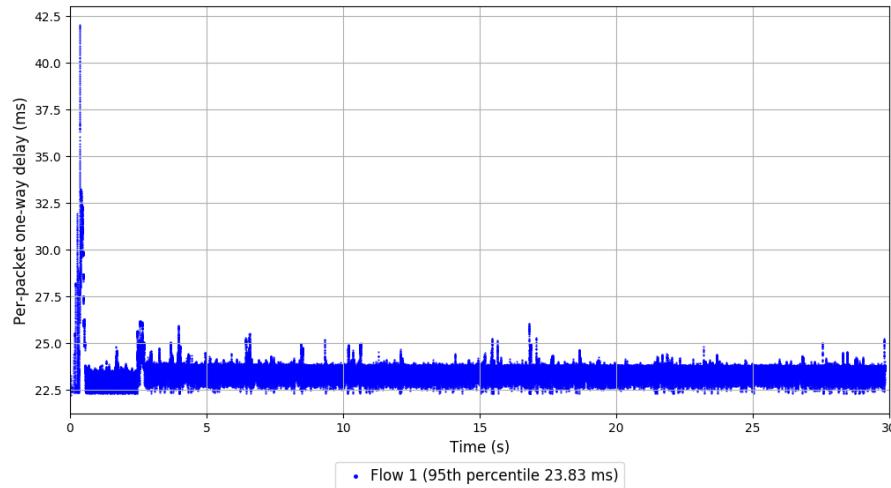
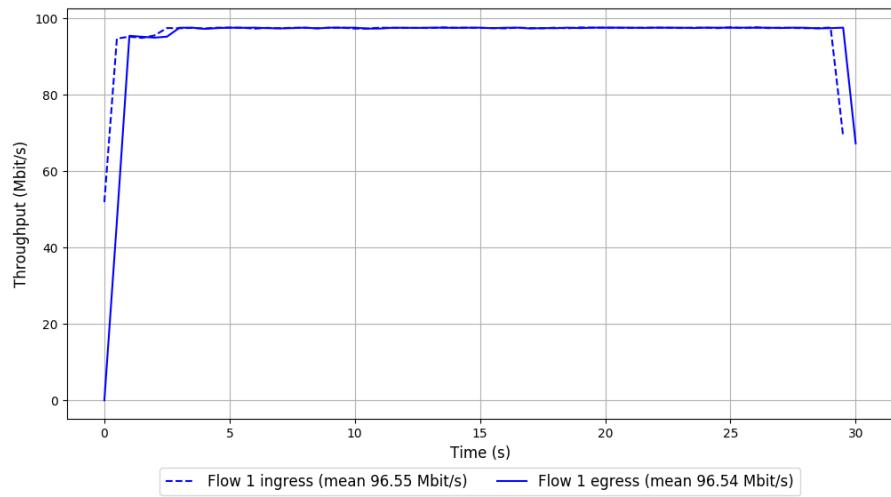


Run 2: Statistics of Indigo

```
Start at: 2019-07-12 10:51:21
End at: 2019-07-12 10:51:51
Local clock offset: -1.002 ms
Remote clock offset: -0.605 ms

# Below is generated by plot.py at 2019-07-12 12:32:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 23.831 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 23.831 ms
Loss rate: 0.11%
```

Run 2: Report of Indigo — Data Link

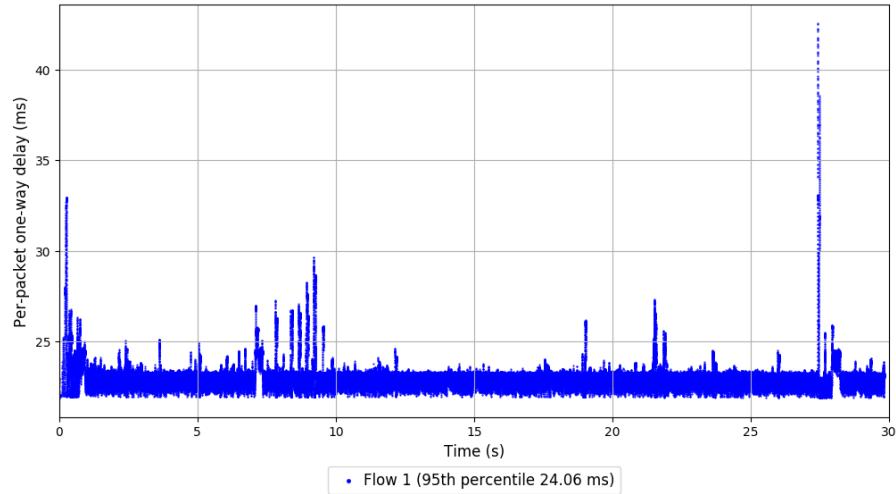
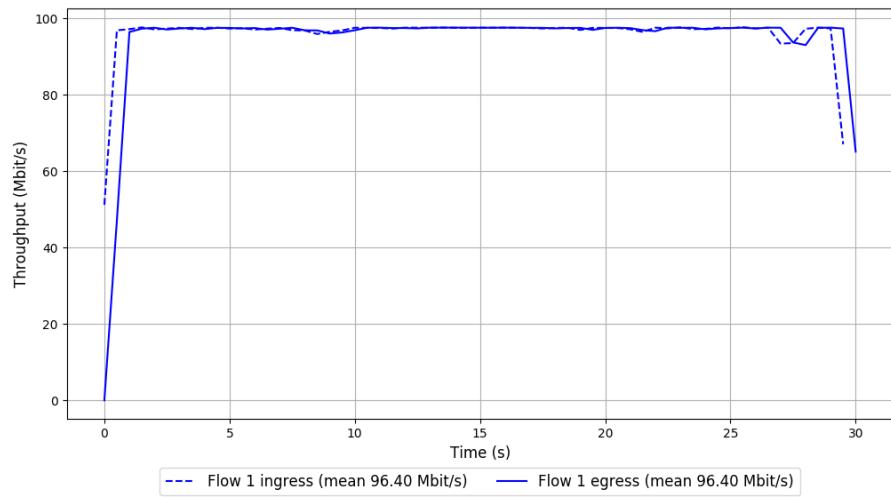


Run 3: Statistics of Indigo

```
Start at: 2019-07-12 11:20:00
End at: 2019-07-12 11:20:30
Local clock offset: 3.828 ms
Remote clock offset: -0.744 ms

# Below is generated by plot.py at 2019-07-12 12:33:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 24.056 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 24.056 ms
Loss rate: 0.11%
```

Run 3: Report of Indigo — Data Link

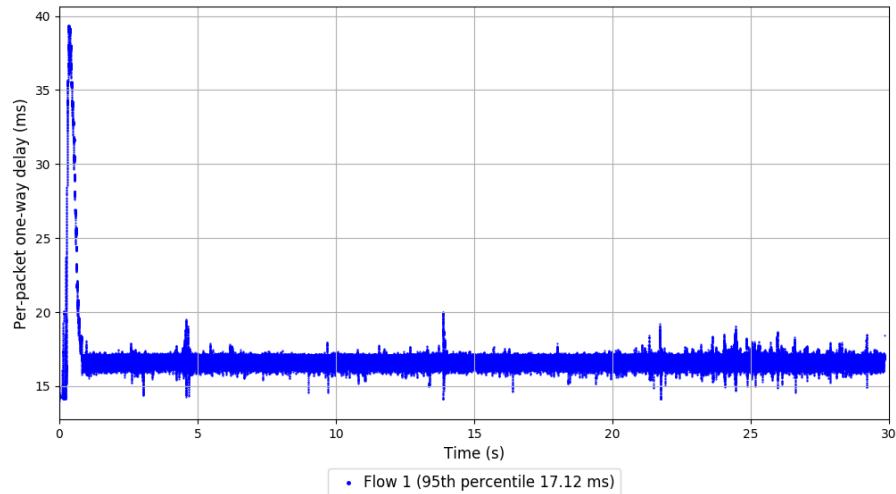
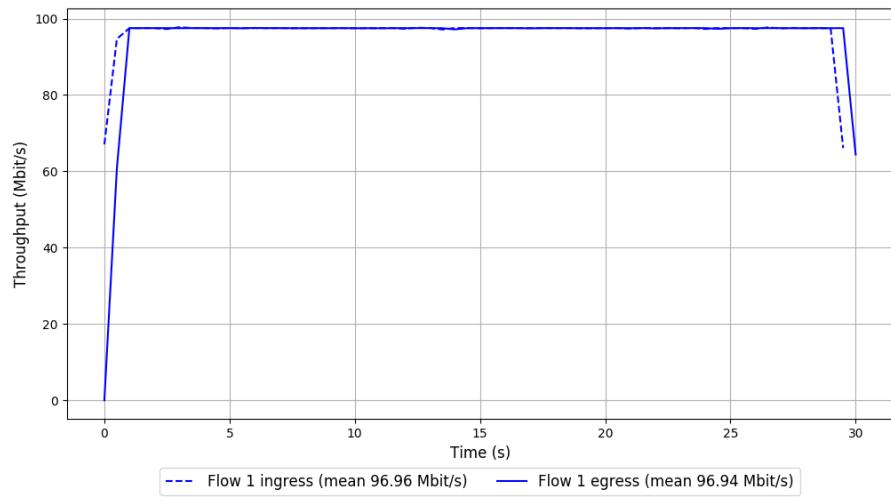


Run 4: Statistics of Indigo

```
Start at: 2019-07-12 11:48:32
End at: 2019-07-12 11:49:02
Local clock offset: 3.028 ms
Remote clock offset: 1.475 ms

# Below is generated by plot.py at 2019-07-12 12:33:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.94 Mbit/s
95th percentile per-packet one-way delay: 17.116 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.94 Mbit/s
95th percentile per-packet one-way delay: 17.116 ms
Loss rate: 0.09%
```

Run 4: Report of Indigo — Data Link

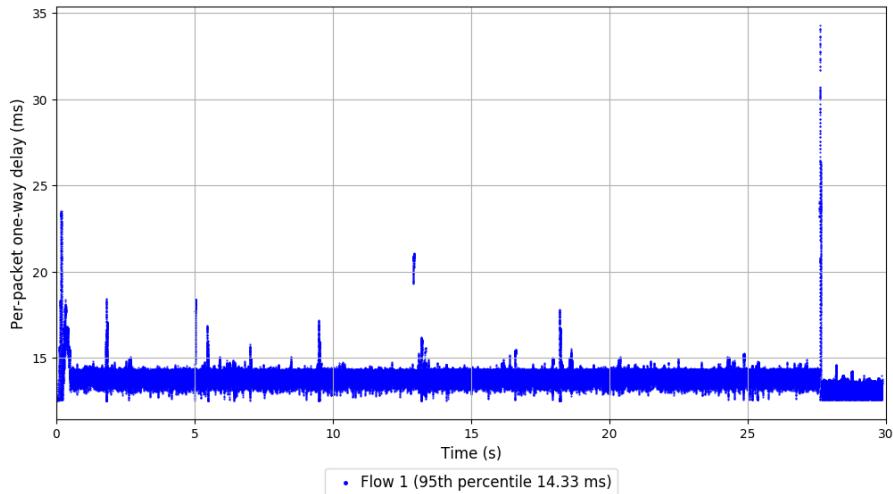
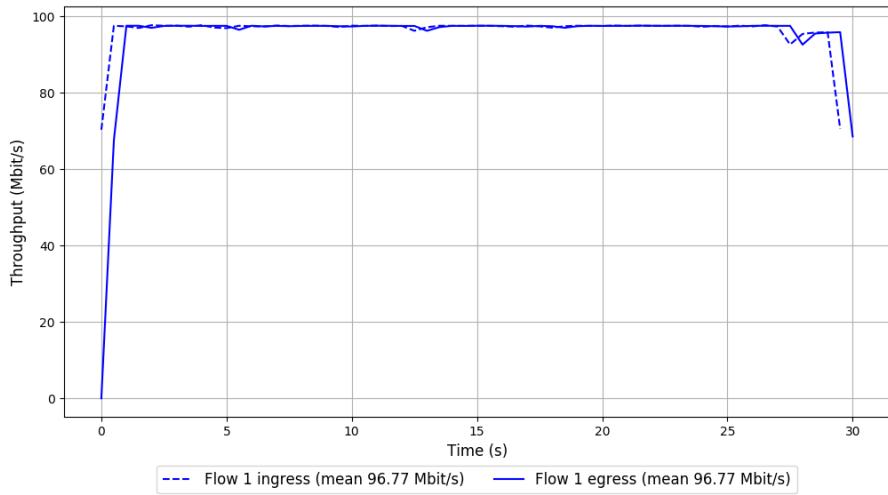


Run 5: Statistics of Indigo

```
Start at: 2019-07-12 12:17:31
End at: 2019-07-12 12:18:01
Local clock offset: -1.565 ms
Remote clock offset: 2.776 ms

# Below is generated by plot.py at 2019-07-12 12:33:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.77 Mbit/s
95th percentile per-packet one-way delay: 14.332 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 96.77 Mbit/s
95th percentile per-packet one-way delay: 14.332 ms
Loss rate: 0.08%
```

Run 5: Report of Indigo — Data Link

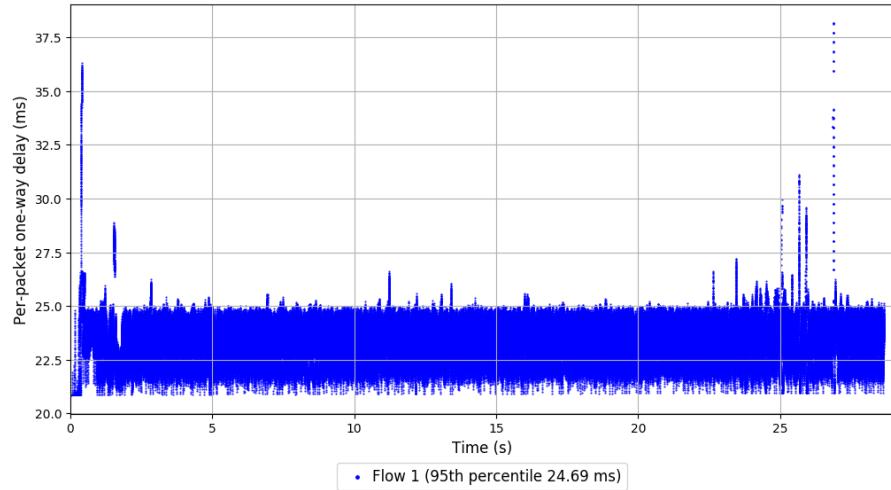
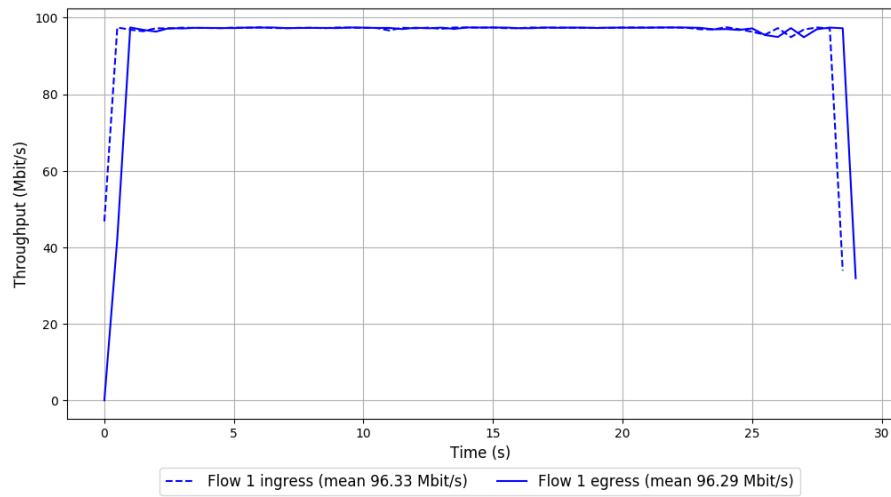


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 10:21:52
End at: 2019-07-12 10:22:22
Local clock offset: -5.436 ms
Remote clock offset: -0.704 ms

# Below is generated by plot.py at 2019-07-12 12:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.29 Mbit/s
95th percentile per-packet one-way delay: 24.688 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 96.29 Mbit/s
95th percentile per-packet one-way delay: 24.688 ms
Loss rate: 0.15%
```

Run 1: Report of Indigo-MusesC3 — Data Link

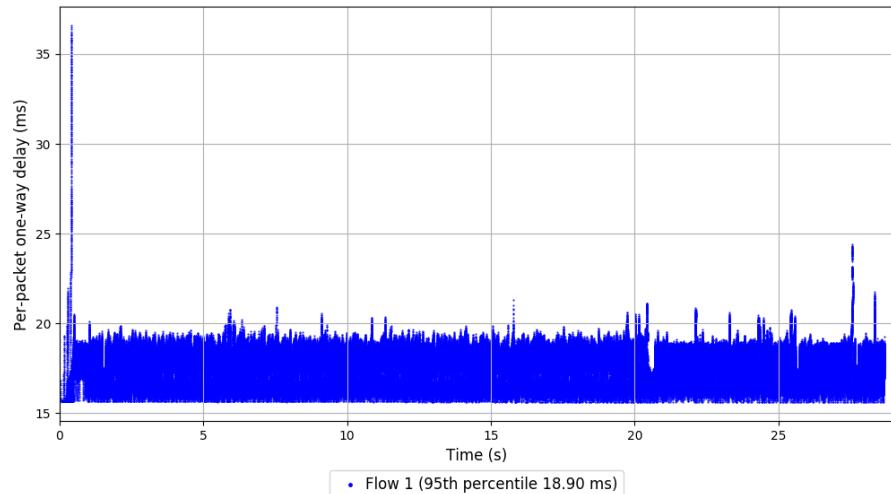
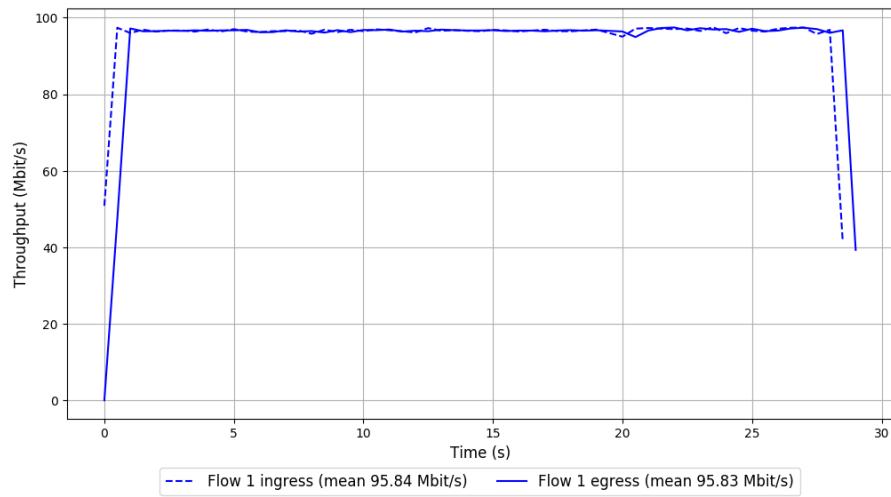


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 10:50:10
End at: 2019-07-12 10:50:40
Local clock offset: -1.328 ms
Remote clock offset: 1.827 ms

# Below is generated by plot.py at 2019-07-12 12:33:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 18.904 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 18.904 ms
Loss rate: 0.10%
```

Run 2: Report of Indigo-MusesC3 — Data Link

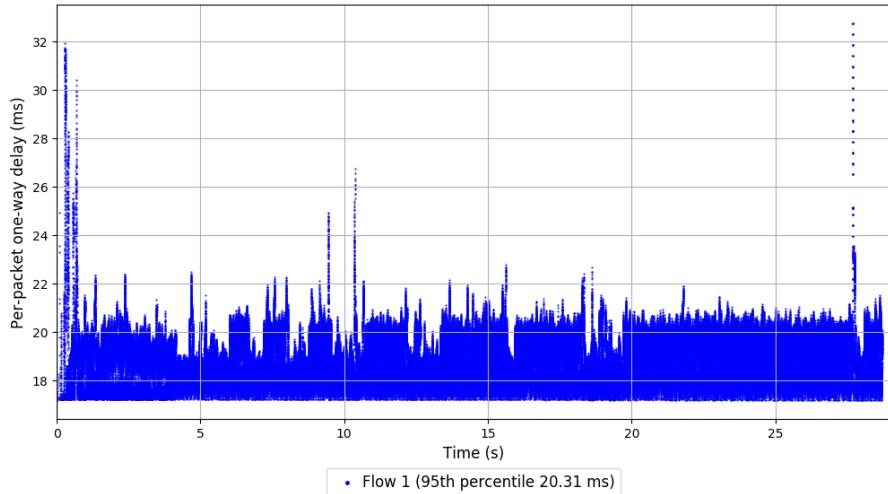
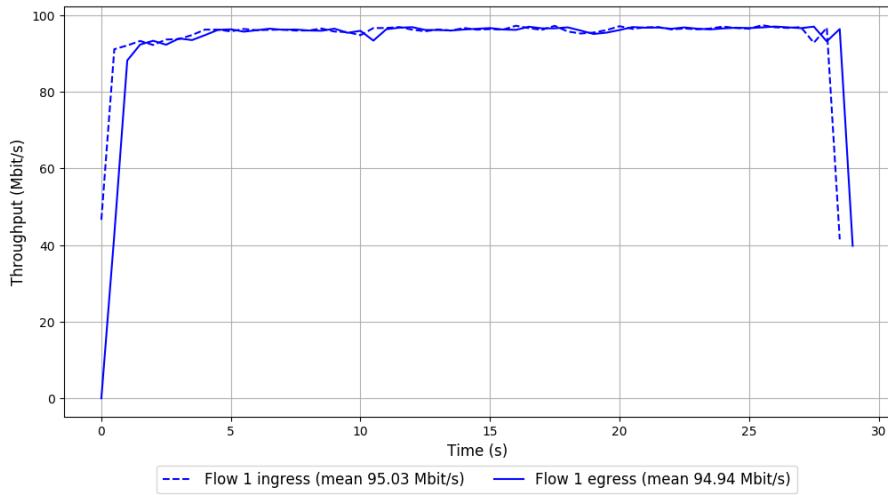


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 11:18:47
End at: 2019-07-12 11:19:17
Local clock offset: 2.977 ms
Remote clock offset: -0.874 ms

# Below is generated by plot.py at 2019-07-12 12:33:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.94 Mbit/s
95th percentile per-packet one-way delay: 20.314 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 94.94 Mbit/s
95th percentile per-packet one-way delay: 20.314 ms
Loss rate: 0.18%
```

Run 3: Report of Indigo-MusesC3 — Data Link

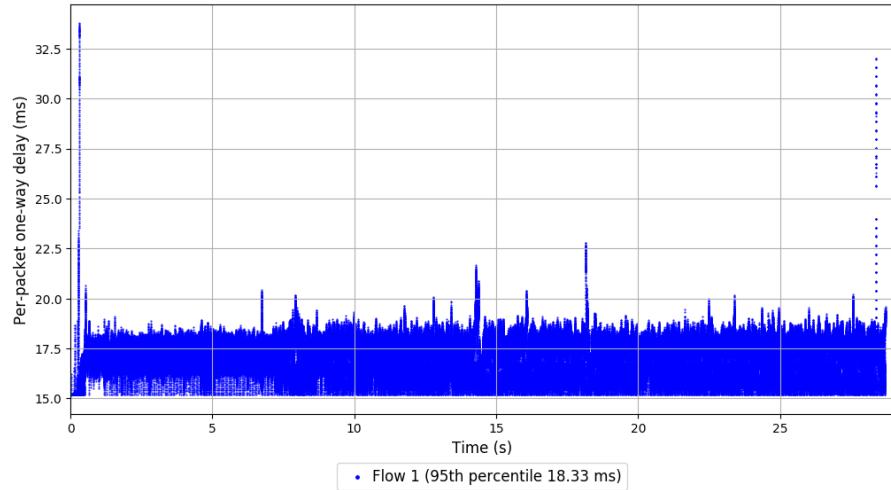
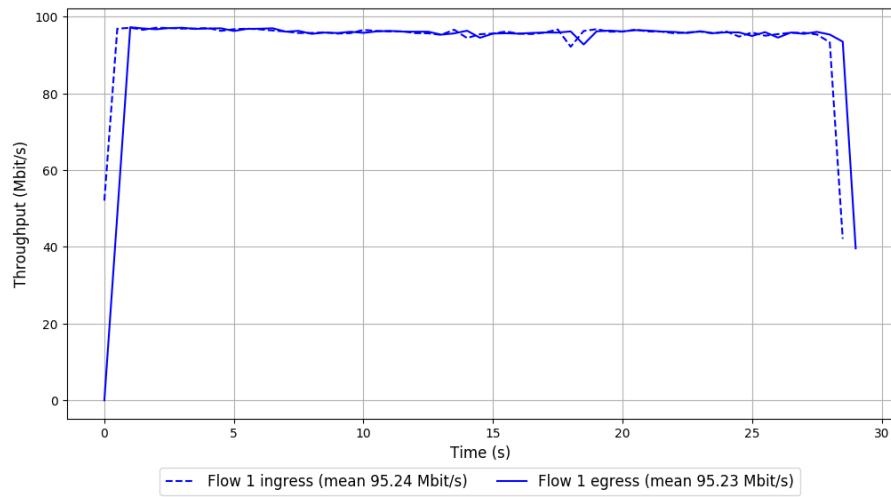


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 11:47:21
End at: 2019-07-12 11:47:51
Local clock offset: 2.812 ms
Remote clock offset: 3.48 ms

# Below is generated by plot.py at 2019-07-12 12:33:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.23 Mbit/s
95th percentile per-packet one-way delay: 18.334 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.23 Mbit/s
95th percentile per-packet one-way delay: 18.334 ms
Loss rate: 0.10%
```

Run 4: Report of Indigo-MusesC3 — Data Link

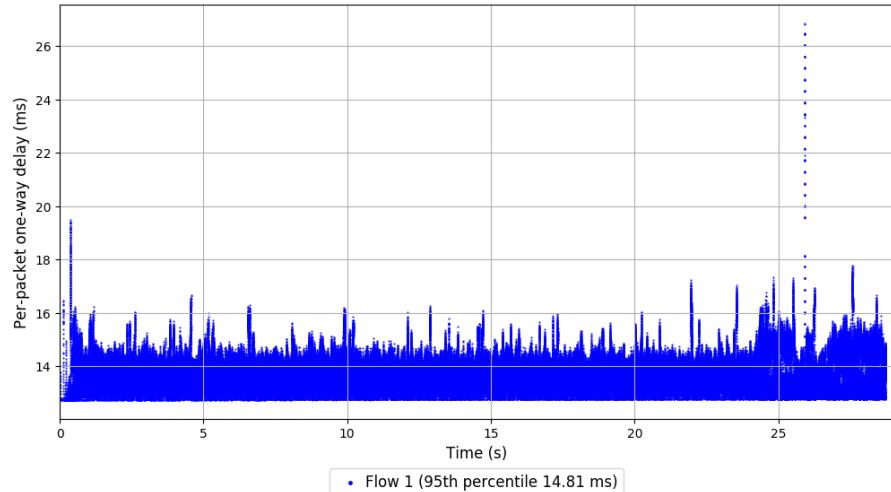
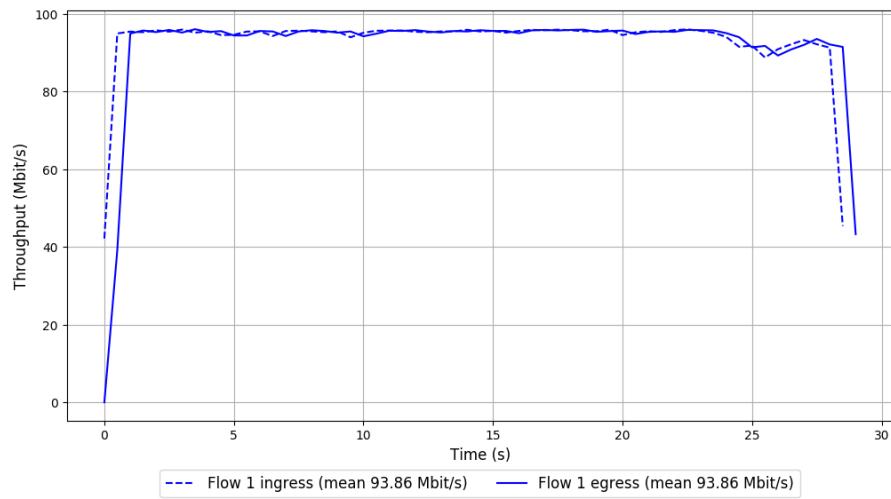


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 12:16:20
End at: 2019-07-12 12:16:50
Local clock offset: -1.465 ms
Remote clock offset: 2.565 ms

# Below is generated by plot.py at 2019-07-12 12:33:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.86 Mbit/s
95th percentile per-packet one-way delay: 14.815 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.86 Mbit/s
95th percentile per-packet one-way delay: 14.815 ms
Loss rate: 0.08%
```

Run 5: Report of Indigo-MusesC3 — Data Link

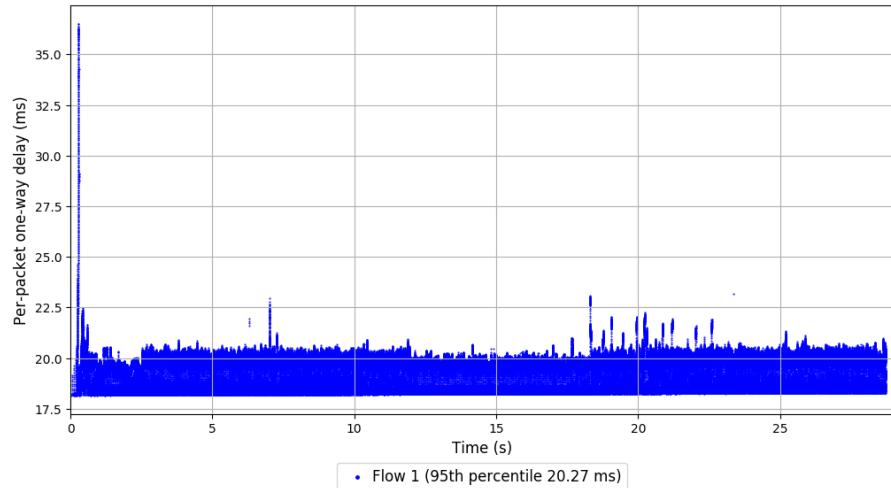
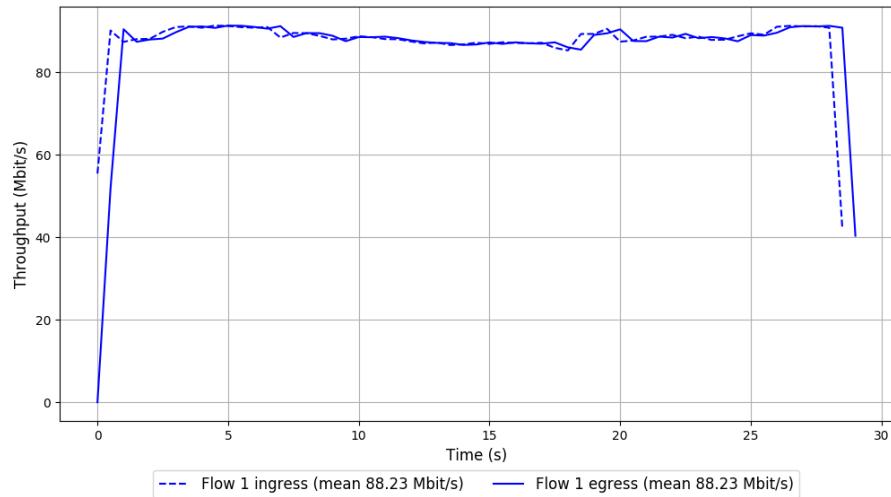


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-07-12 10:09:00
End at: 2019-07-12 10:09:30
Local clock offset: -4.444 ms
Remote clock offset: -3.111 ms

# Below is generated by plot.py at 2019-07-12 12:34:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.23 Mbit/s
95th percentile per-packet one-way delay: 20.266 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 88.23 Mbit/s
95th percentile per-packet one-way delay: 20.266 ms
Loss rate: 0.10%
```

Run 1: Report of Indigo-MusesC5 — Data Link

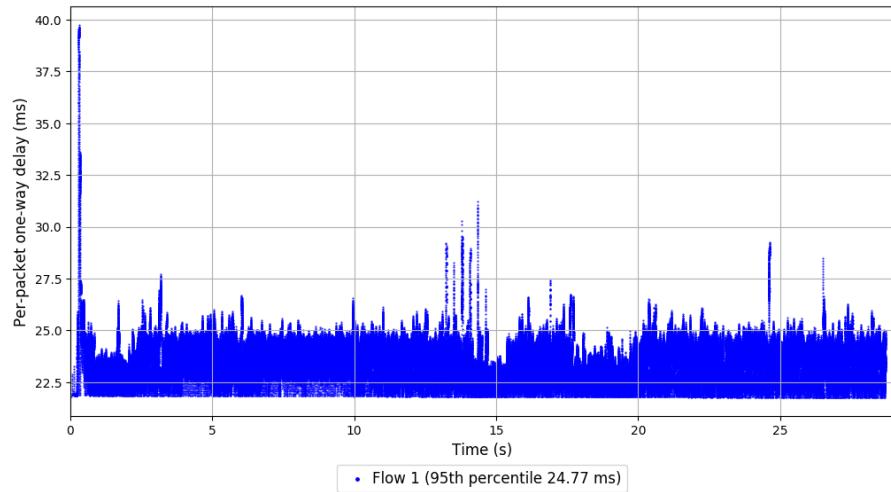
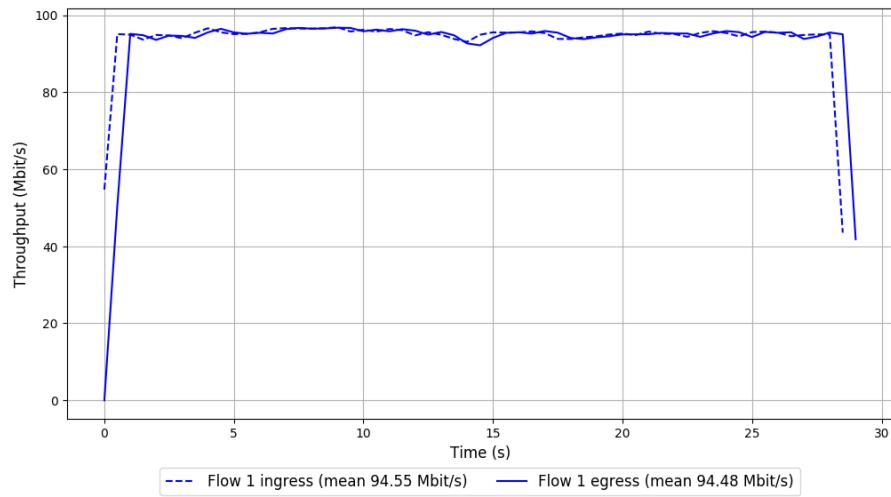


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 10:37:17
End at: 2019-07-12 10:37:47
Local clock offset: -2.593 ms
Remote clock offset: 0.183 ms

# Below is generated by plot.py at 2019-07-12 12:34:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.48 Mbit/s
95th percentile per-packet one-way delay: 24.774 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 94.48 Mbit/s
95th percentile per-packet one-way delay: 24.774 ms
Loss rate: 0.18%
```

Run 2: Report of Indigo-MusesC5 — Data Link

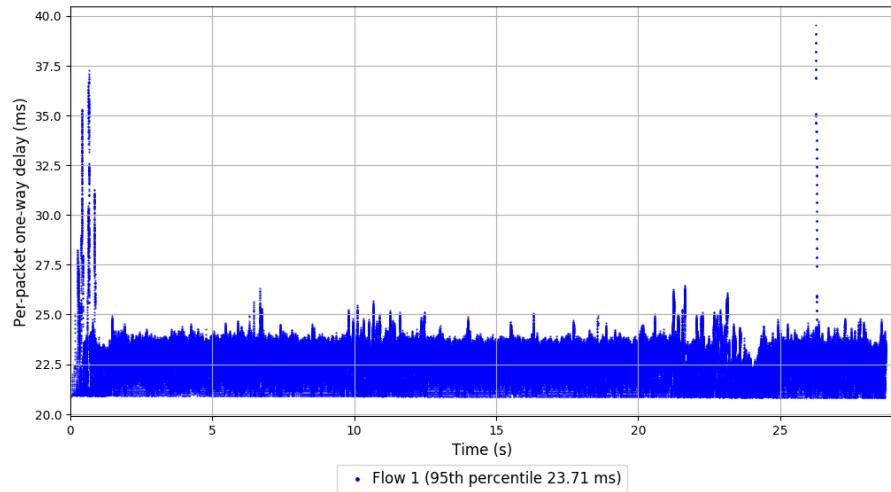
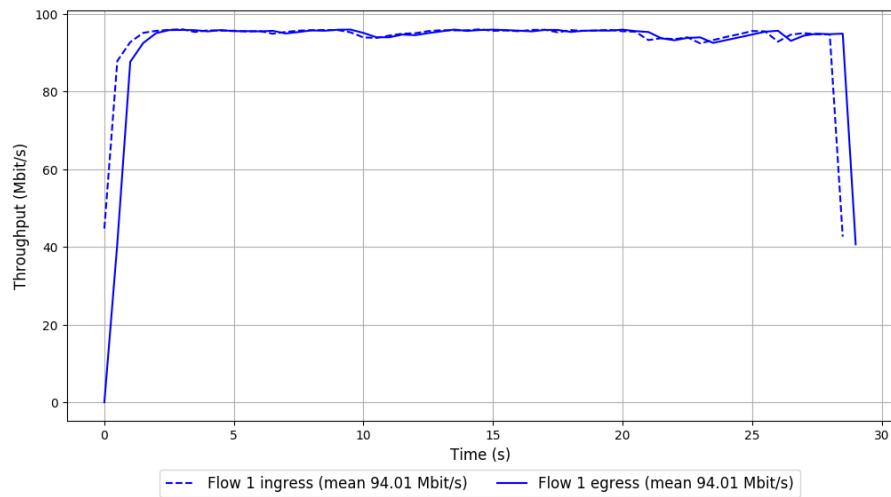


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 11:05:34
End at: 2019-07-12 11:06:05
Local clock offset: 1.317 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-07-12 12:34:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 23.711 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 23.711 ms
Loss rate: 0.11%
```

Run 3: Report of Indigo-MusesC5 — Data Link

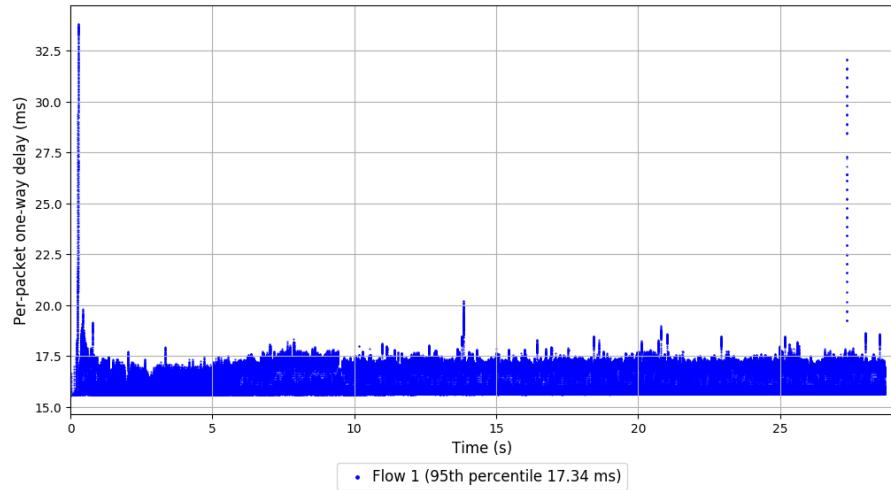
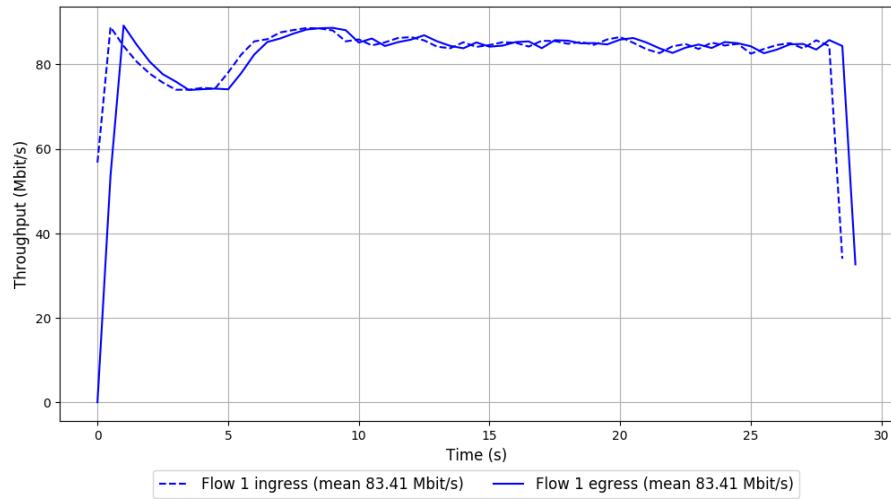


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 11:34:14
End at: 2019-07-12 11:34:44
Local clock offset: 3.304 ms
Remote clock offset: 3.517 ms

# Below is generated by plot.py at 2019-07-12 12:34:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.41 Mbit/s
95th percentile per-packet one-way delay: 17.340 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 83.41 Mbit/s
95th percentile per-packet one-way delay: 17.340 ms
Loss rate: 0.09%
```

Run 4: Report of Indigo-MusesC5 — Data Link

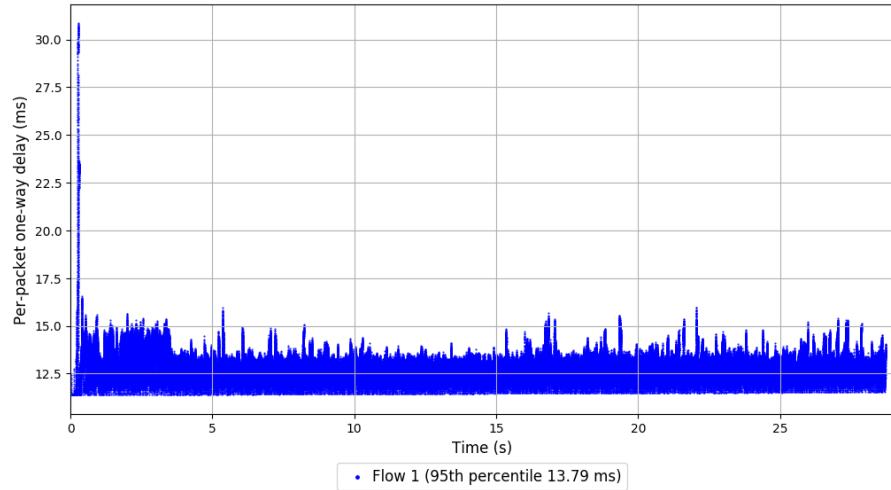
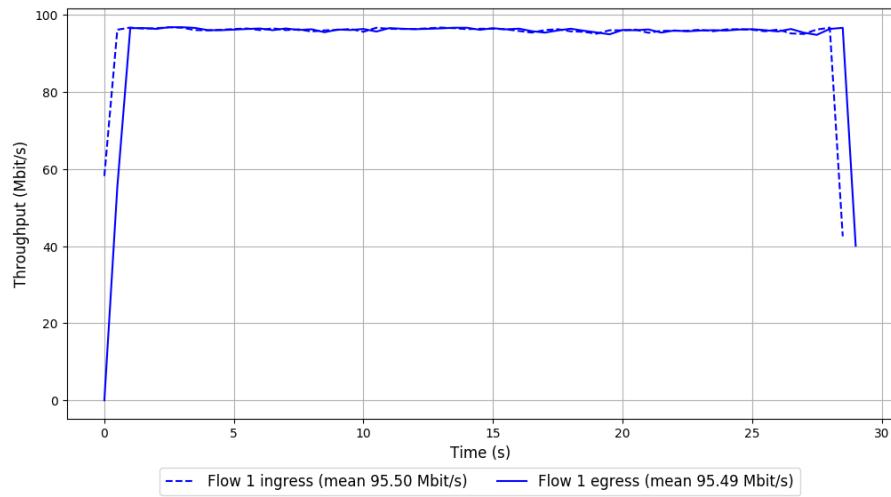


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 12:03:17
End at: 2019-07-12 12:03:47
Local clock offset: 1.255 ms
Remote clock offset: 4.068 ms

# Below is generated by plot.py at 2019-07-12 12:34:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.49 Mbit/s
95th percentile per-packet one-way delay: 13.790 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.49 Mbit/s
95th percentile per-packet one-way delay: 13.790 ms
Loss rate: 0.09%
```

Run 5: Report of Indigo-MusesC5 — Data Link

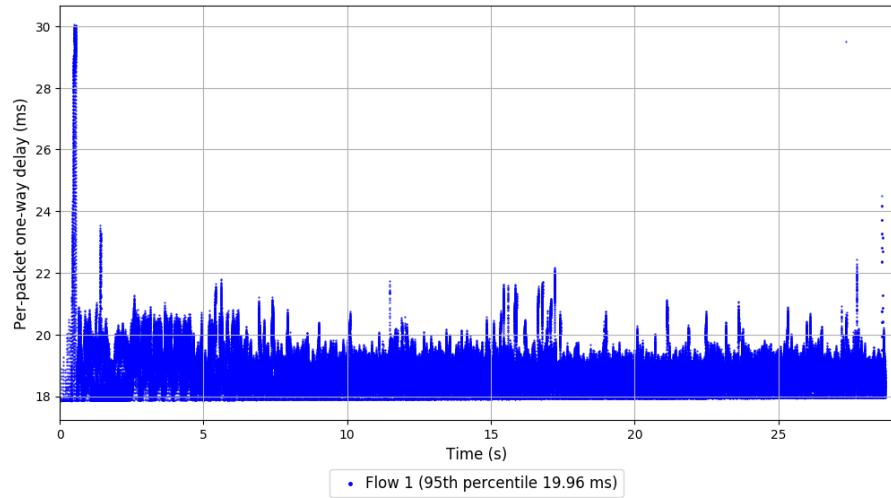
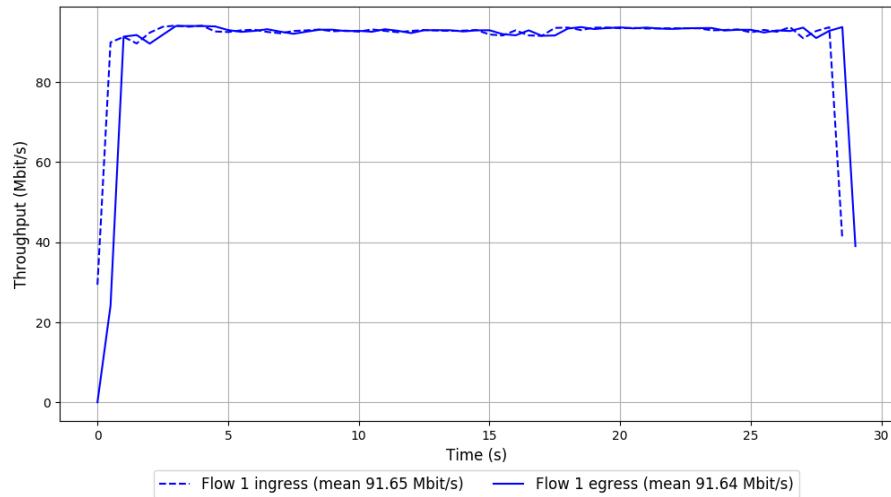


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 10:25:30
End at: 2019-07-12 10:26:00
Local clock offset: -5.366 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-07-12 12:34:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.64 Mbit/s
95th percentile per-packet one-way delay: 19.960 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 91.64 Mbit/s
95th percentile per-packet one-way delay: 19.960 ms
Loss rate: 0.10%
```

Run 1: Report of Indigo-MusesD — Data Link

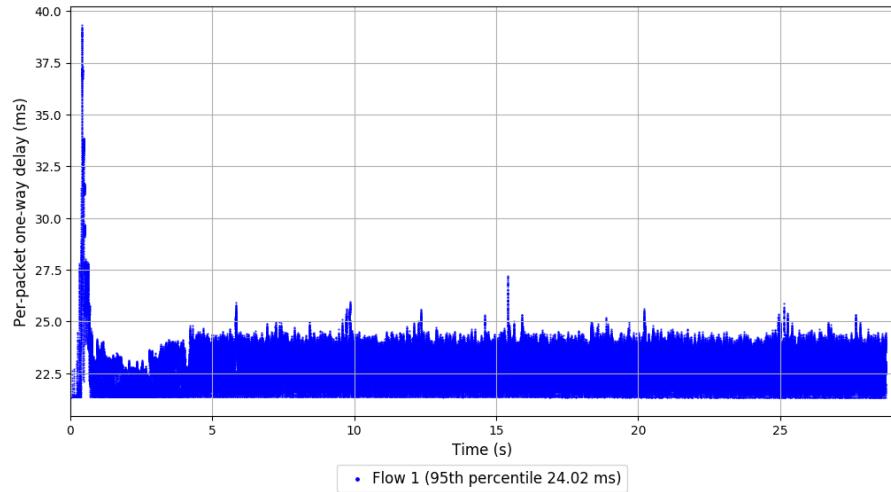
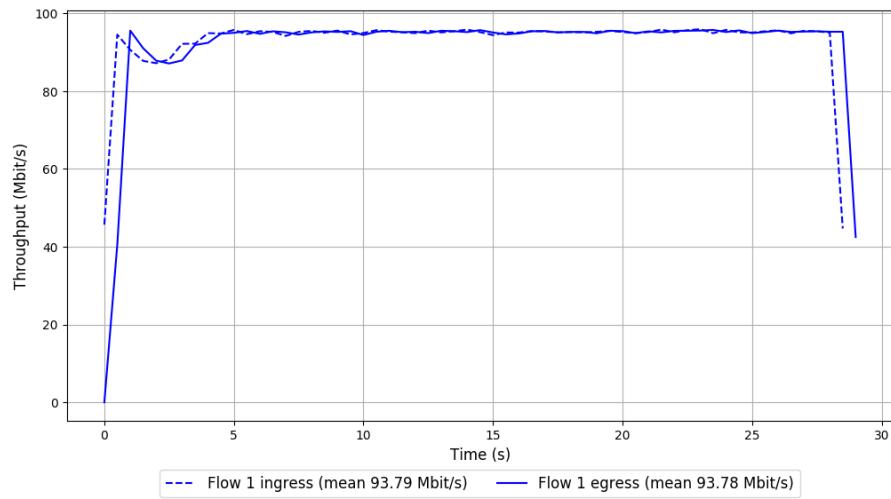


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 10:53:44
End at: 2019-07-12 10:54:14
Local clock offset: -0.092 ms
Remote clock offset: 1.038 ms

# Below is generated by plot.py at 2019-07-12 12:34:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 24.023 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 24.023 ms
Loss rate: 0.12%
```

Run 2: Report of Indigo-MusesD — Data Link

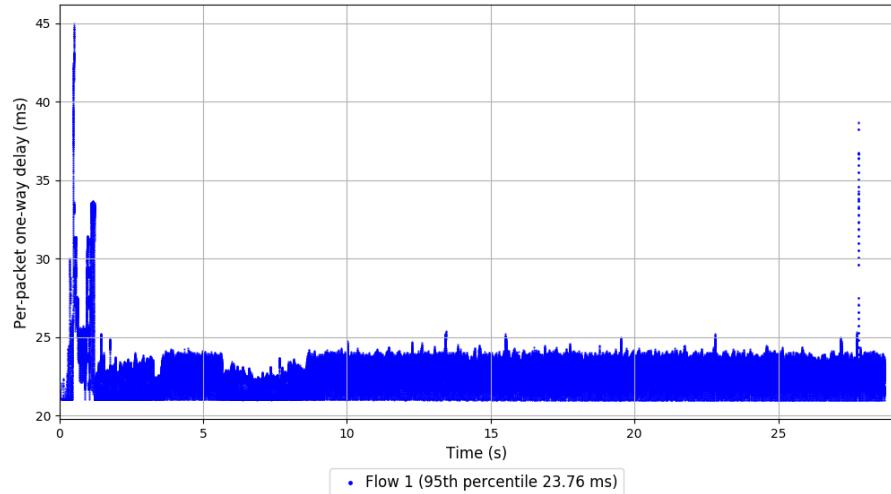
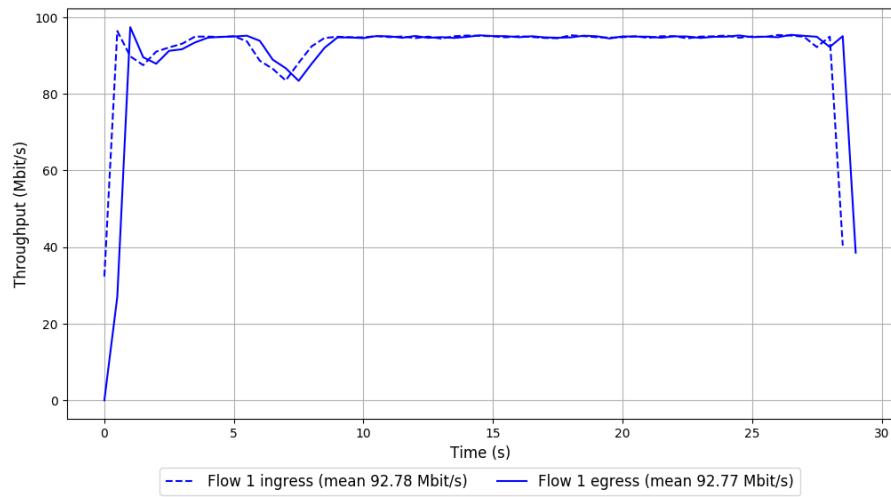


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 11:22:22
End at: 2019-07-12 11:22:52
Local clock offset: 4.707 ms
Remote clock offset: 0.694 ms

# Below is generated by plot.py at 2019-07-12 12:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 23.761 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 23.761 ms
Loss rate: 0.12%
```

Run 3: Report of Indigo-MusesD — Data Link

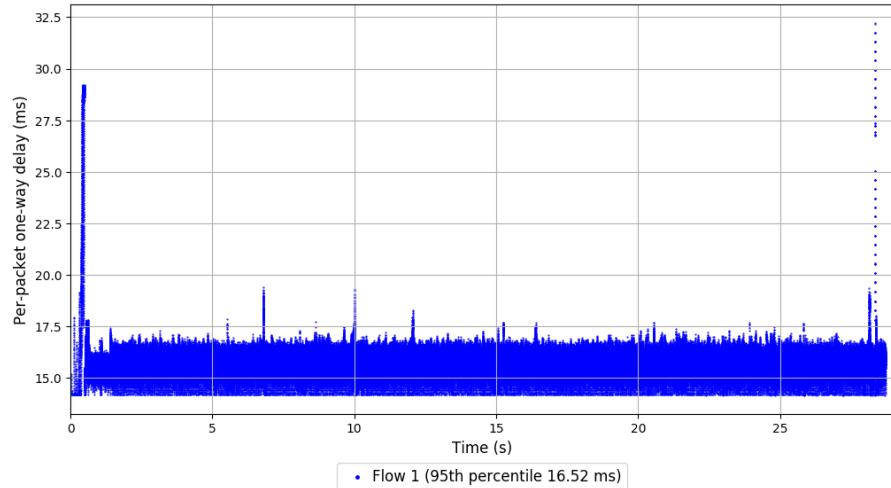
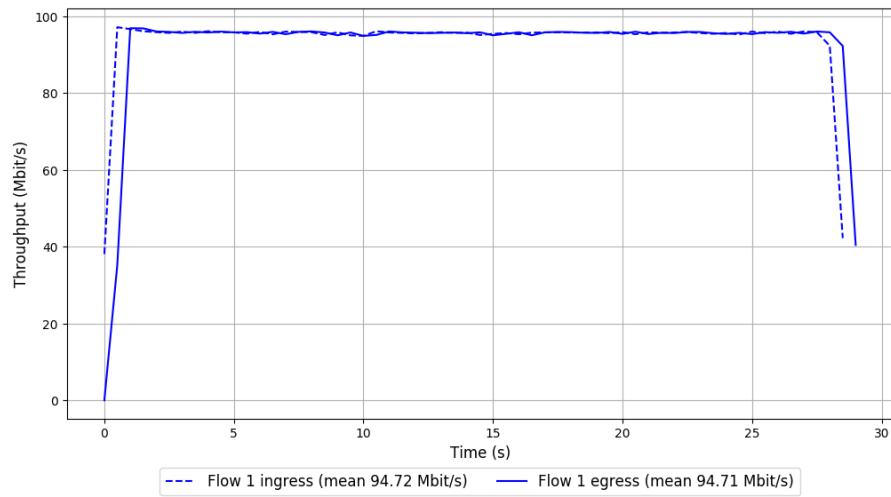


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 11:51:02
End at: 2019-07-12 11:51:32
Local clock offset: 3.313 ms
Remote clock offset: 2.055 ms

# Below is generated by plot.py at 2019-07-12 12:35:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 16.518 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 16.518 ms
Loss rate: 0.09%
```

Run 4: Report of Indigo-MusesD — Data Link

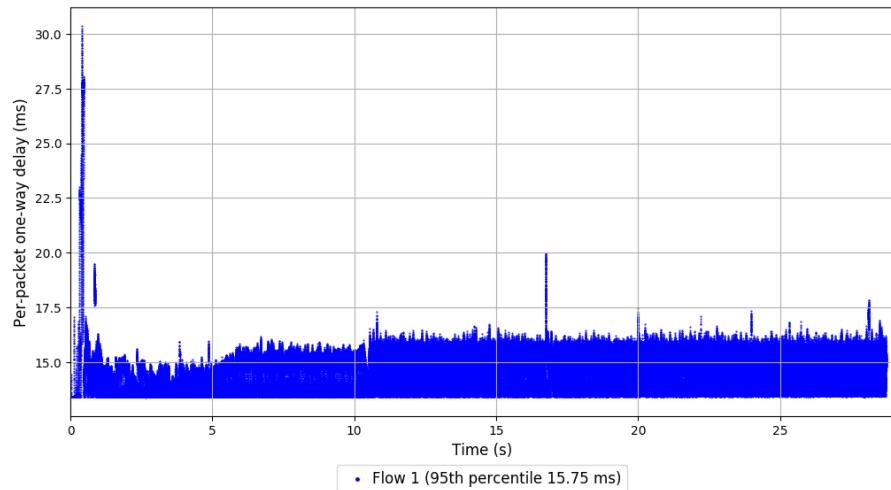
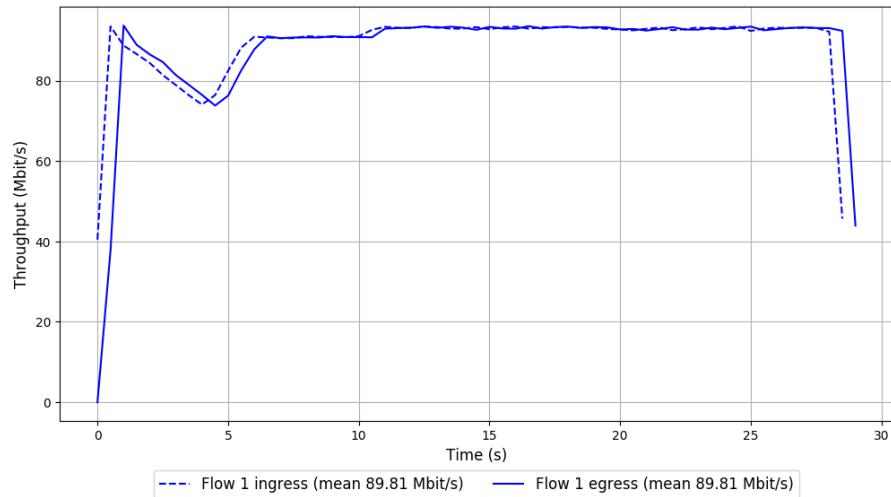


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 12:19:55
End at: 2019-07-12 12:20:25
Local clock offset: -1.821 ms
Remote clock offset: 2.283 ms

# Below is generated by plot.py at 2019-07-12 12:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.81 Mbit/s
95th percentile per-packet one-way delay: 15.752 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 89.81 Mbit/s
95th percentile per-packet one-way delay: 15.752 ms
Loss rate: 0.08%
```

Run 5: Report of Indigo-MusesD — Data Link

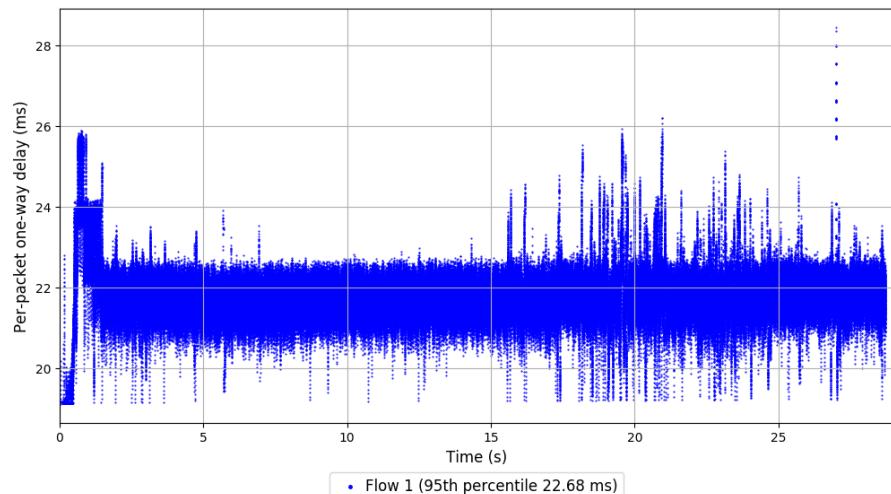
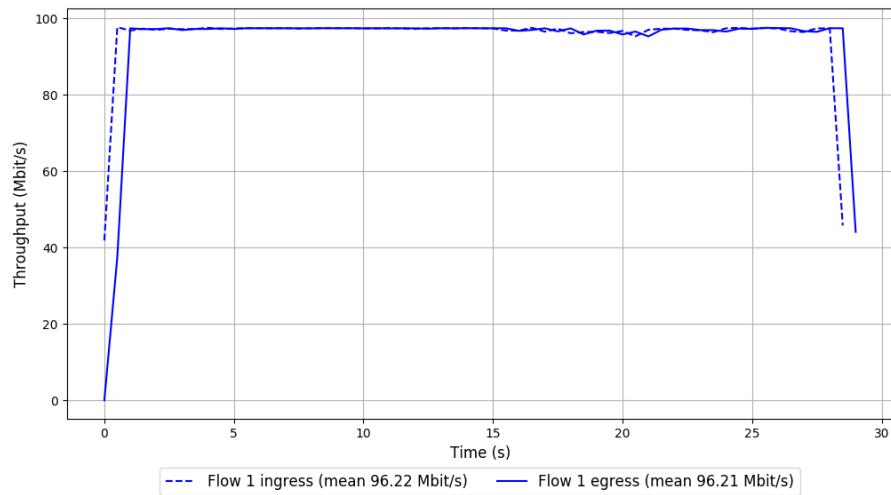


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 10:19:28
End at: 2019-07-12 10:19:58
Local clock offset: -4.449 ms
Remote clock offset: -1.678 ms

# Below is generated by plot.py at 2019-07-12 12:35:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 22.683 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 22.683 ms
Loss rate: 0.10%
```

Run 1: Report of Indigo-MusesT — Data Link

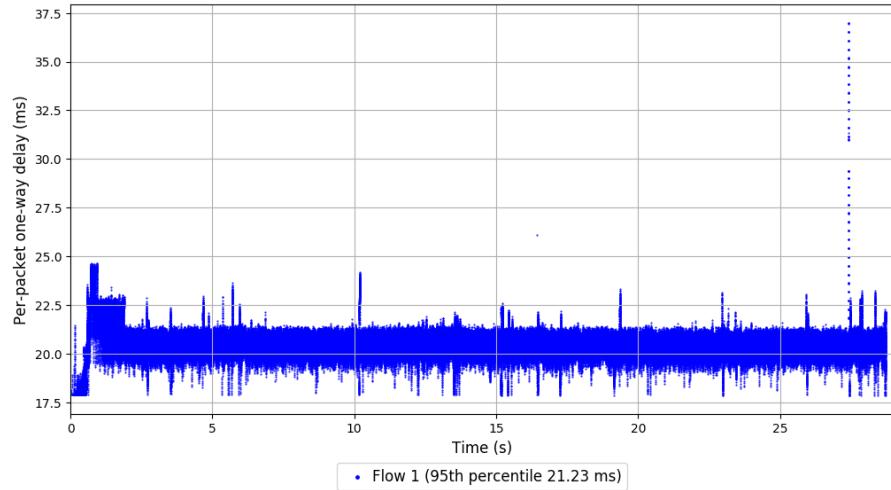
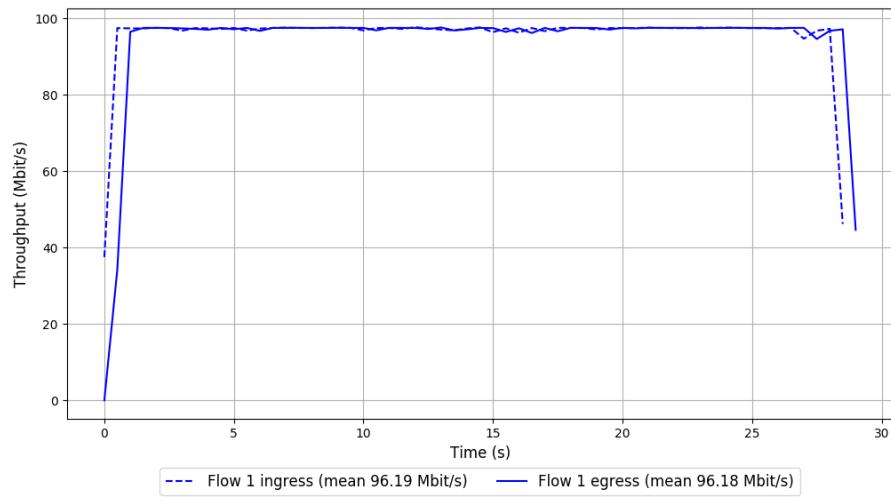


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 10:47:48
End at: 2019-07-12 10:48:18
Local clock offset: -0.682 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2019-07-12 12:35:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 21.231 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 21.231 ms
Loss rate: 0.10%
```

Run 2: Report of Indigo-MusesT — Data Link

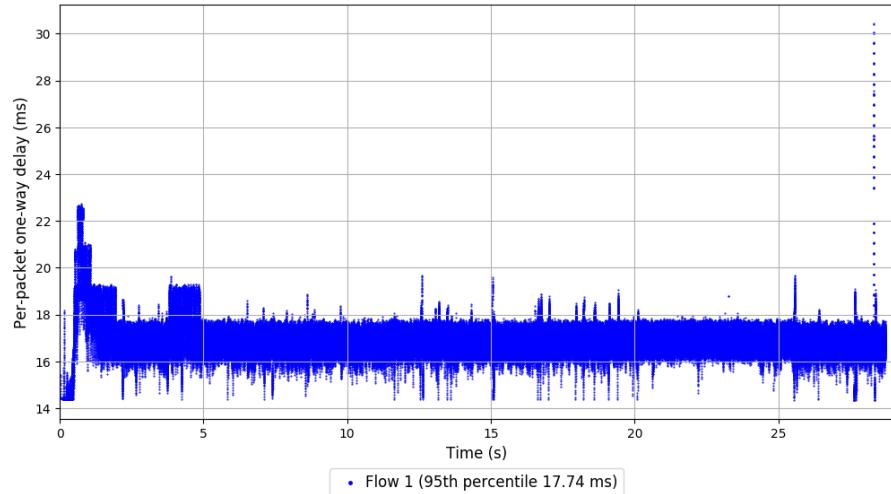
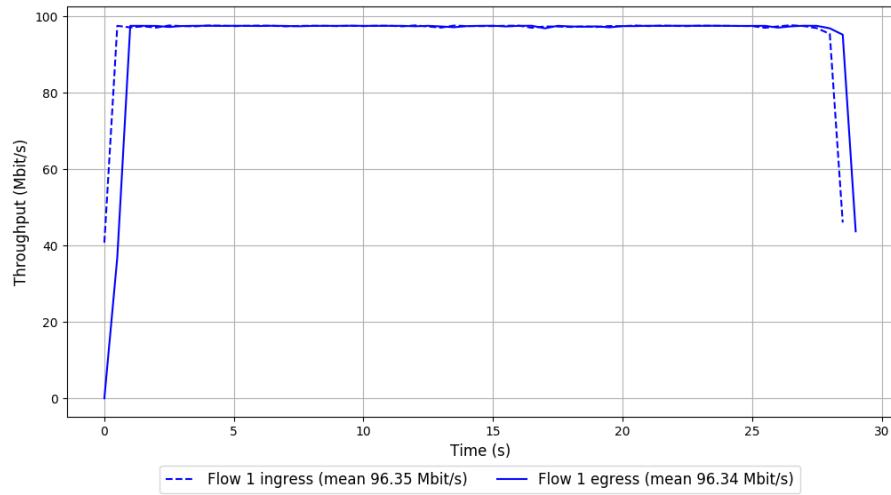


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 11:16:23
End at: 2019-07-12 11:16:53
Local clock offset: 3.162 ms
Remote clock offset: 1.953 ms

# Below is generated by plot.py at 2019-07-12 12:35:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 17.738 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 17.738 ms
Loss rate: 0.10%
```

Run 3: Report of Indigo-MusesT — Data Link

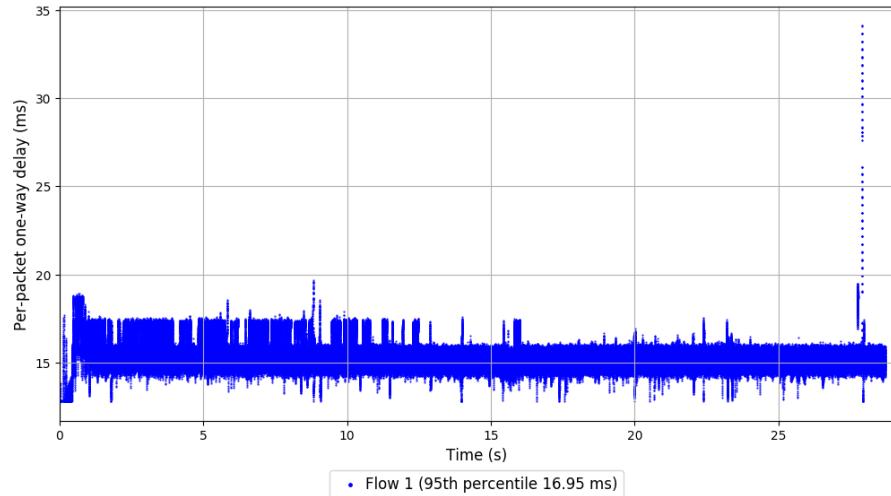
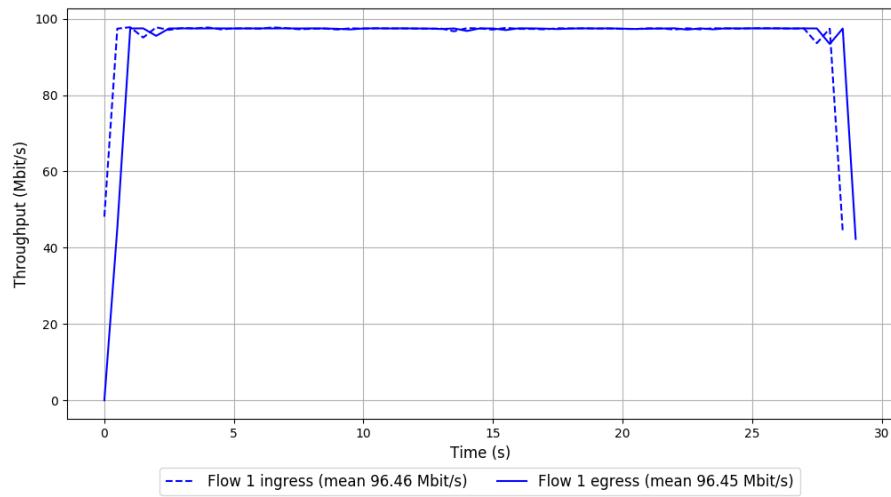


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 11:45:04
End at: 2019-07-12 11:45:34
Local clock offset: 3.437 ms
Remote clock offset: 3.322 ms

# Below is generated by plot.py at 2019-07-12 12:35:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.45 Mbit/s
95th percentile per-packet one-way delay: 16.945 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.45 Mbit/s
95th percentile per-packet one-way delay: 16.945 ms
Loss rate: 0.09%
```

Run 4: Report of Indigo-MusesT — Data Link

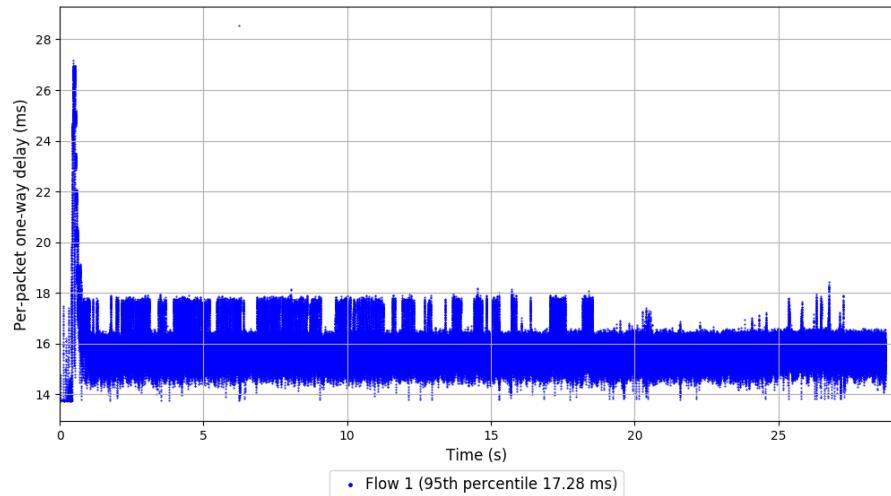
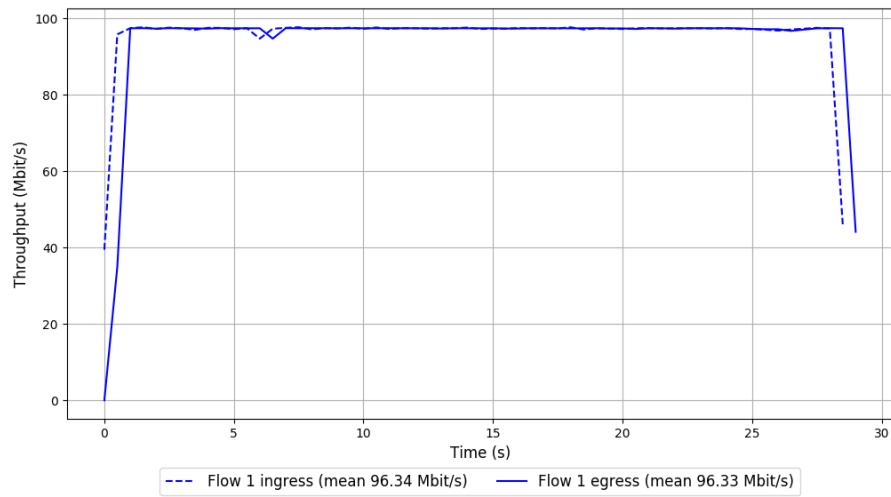


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 12:13:57
End at: 2019-07-12 12:14:27
Local clock offset: -1.548 ms
Remote clock offset: 1.142 ms

# Below is generated by plot.py at 2019-07-12 12:36:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 17.277 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 17.277 ms
Loss rate: 0.09%
```

Run 5: Report of Indigo-MusesT — Data Link

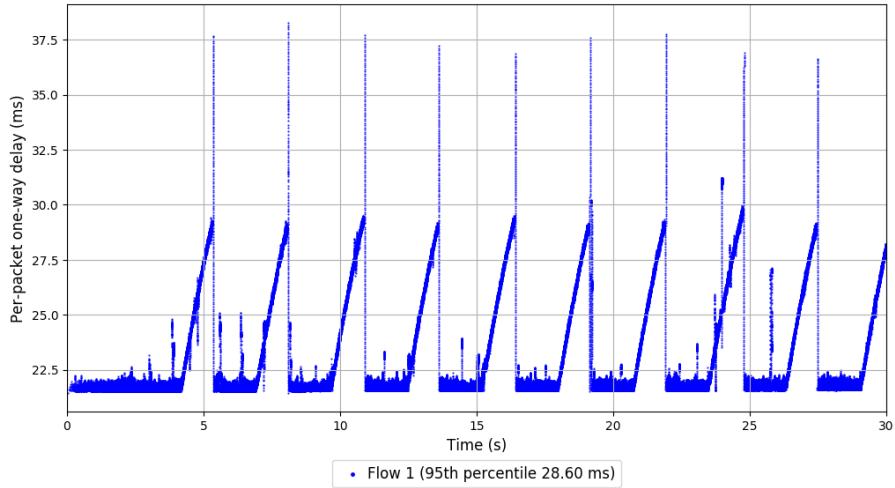
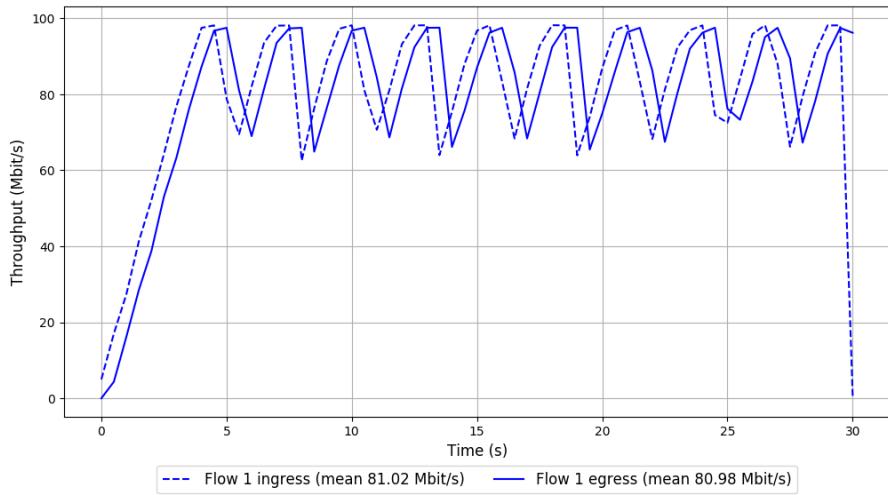


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-07-12 10:04:23
End at: 2019-07-12 10:04:53
Local clock offset: -3.402 ms
Remote clock offset: -1.697 ms

# Below is generated by plot.py at 2019-07-12 12:36:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.98 Mbit/s
95th percentile per-packet one-way delay: 28.600 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 80.98 Mbit/s
95th percentile per-packet one-way delay: 28.600 ms
Loss rate: 0.16%
```

Run 1: Report of LEDBAT — Data Link

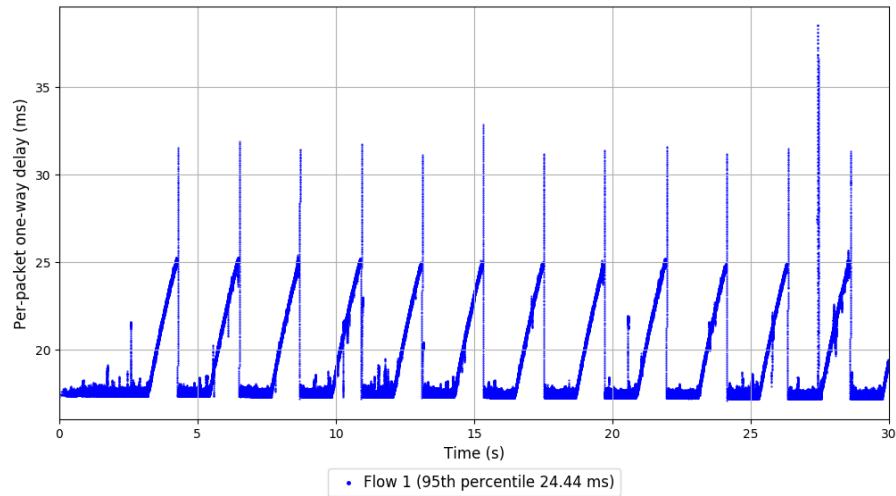
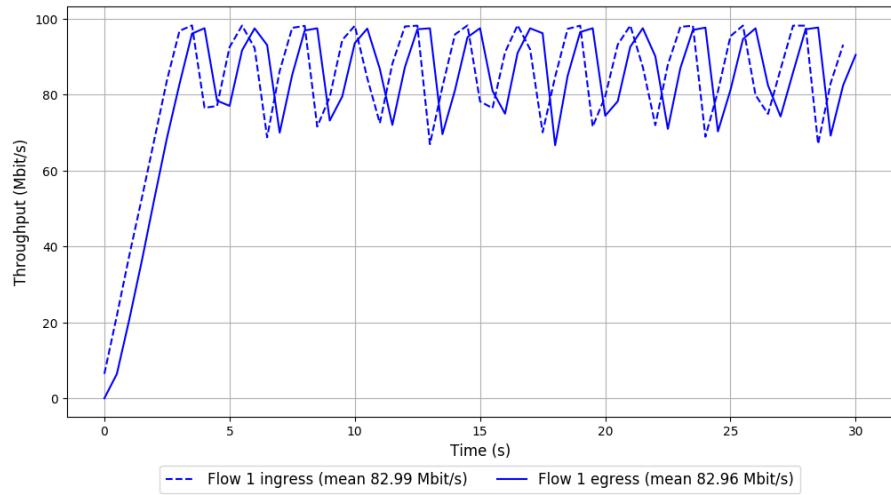


Run 2: Statistics of LEDBAT

```
Start at: 2019-07-12 10:32:38
End at: 2019-07-12 10:33:08
Local clock offset: -3.857 ms
Remote clock offset: 0.861 ms

# Below is generated by plot.py at 2019-07-12 12:36:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.96 Mbit/s
95th percentile per-packet one-way delay: 24.444 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 82.96 Mbit/s
95th percentile per-packet one-way delay: 24.444 ms
Loss rate: 0.12%
```

Run 2: Report of LEDBAT — Data Link

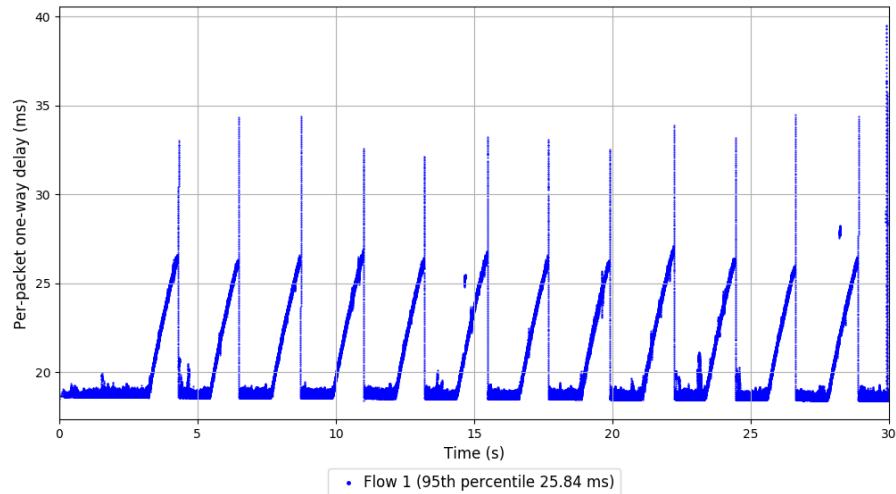
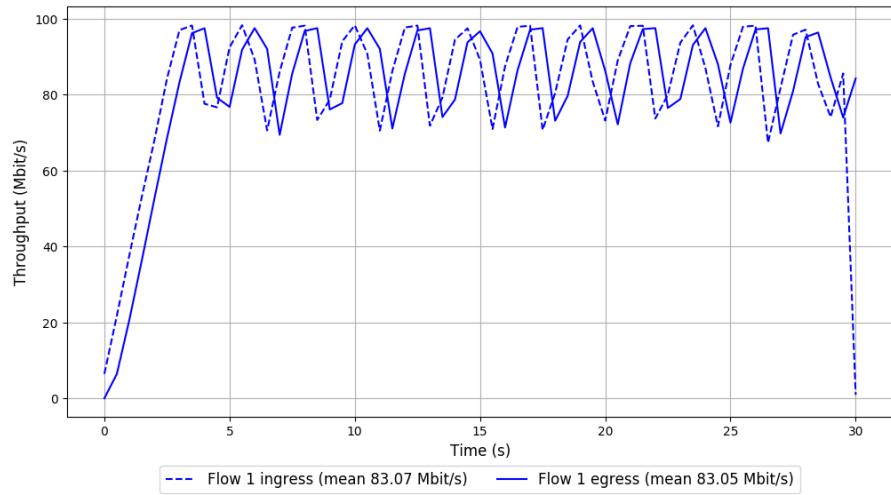


Run 3: Statistics of LEDBAT

```
Start at: 2019-07-12 11:00:50
End at: 2019-07-12 11:01:20
Local clock offset: 0.4 ms
Remote clock offset: -1.089 ms

# Below is generated by plot.py at 2019-07-12 12:36:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.05 Mbit/s
95th percentile per-packet one-way delay: 25.836 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 83.05 Mbit/s
95th percentile per-packet one-way delay: 25.836 ms
Loss rate: 0.11%
```

Run 3: Report of LEDBAT — Data Link

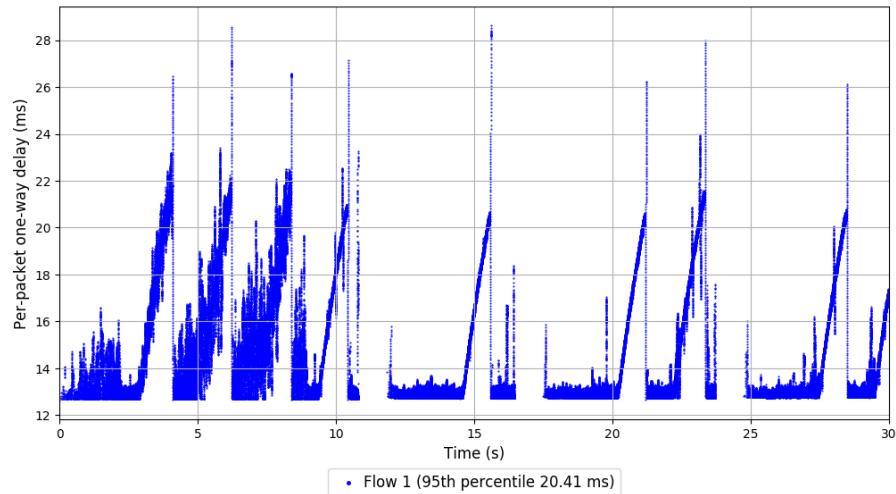
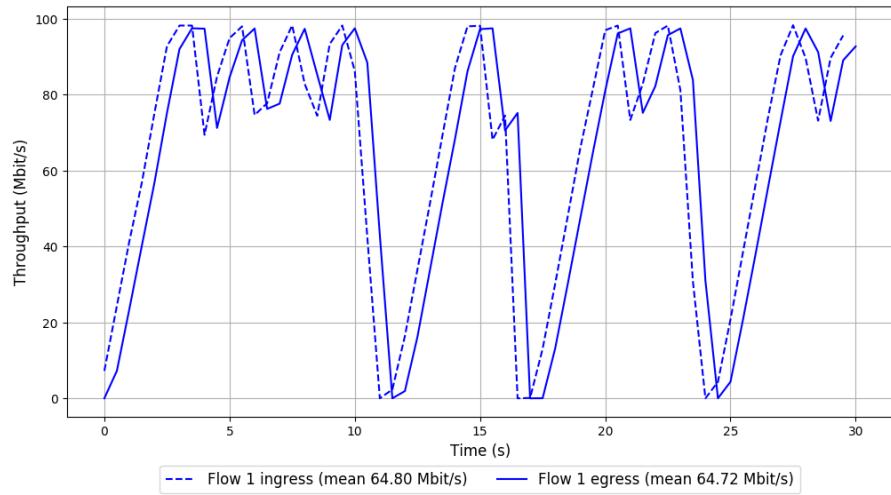


Run 4: Statistics of LEDBAT

```
Start at: 2019-07-12 11:29:34
End at: 2019-07-12 11:30:04
Local clock offset: 4.786 ms
Remote clock offset: 4.157 ms

# Below is generated by plot.py at 2019-07-12 12:36:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.72 Mbit/s
95th percentile per-packet one-way delay: 20.413 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 64.72 Mbit/s
95th percentile per-packet one-way delay: 20.413 ms
Loss rate: 0.21%
```

Run 4: Report of LEDBAT — Data Link

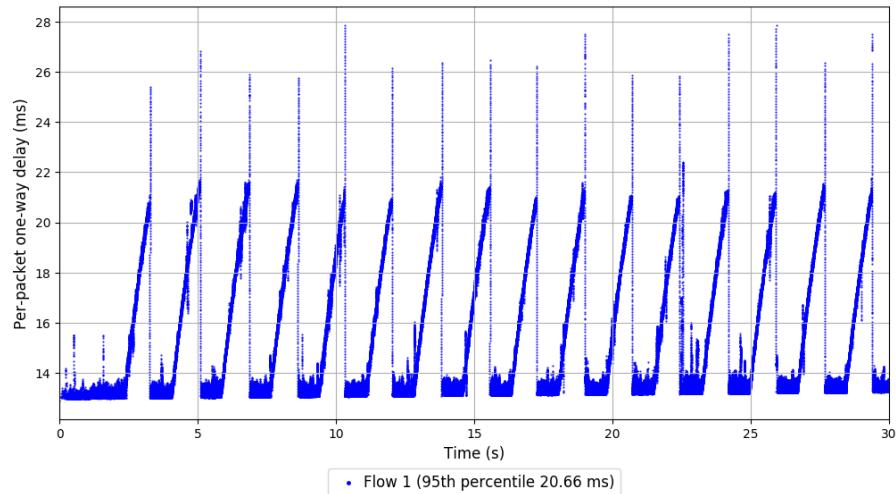
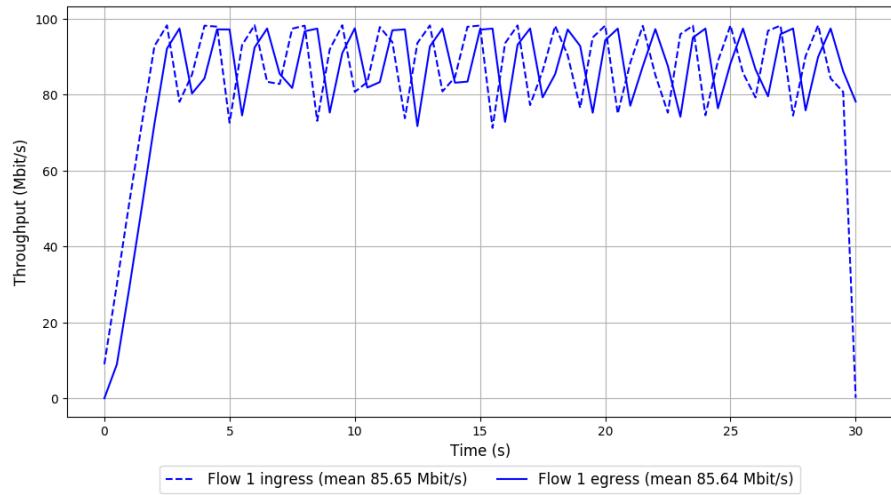


Run 5: Statistics of LEDBAT

```
Start at: 2019-07-12 11:58:26
End at: 2019-07-12 11:58:56
Local clock offset: 3.252 ms
Remote clock offset: 2.889 ms

# Below is generated by plot.py at 2019-07-12 12:36:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.64 Mbit/s
95th percentile per-packet one-way delay: 20.661 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 85.64 Mbit/s
95th percentile per-packet one-way delay: 20.661 ms
Loss rate: 0.09%
```

Run 5: Report of LEDBAT — Data Link

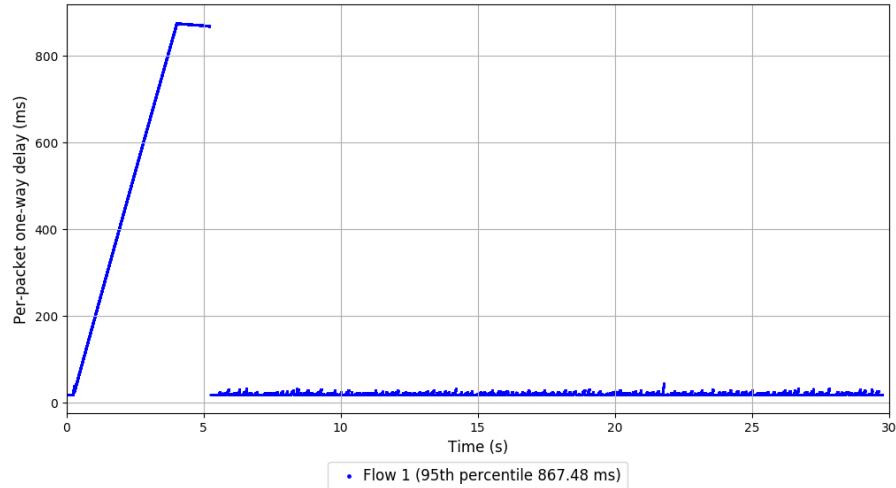
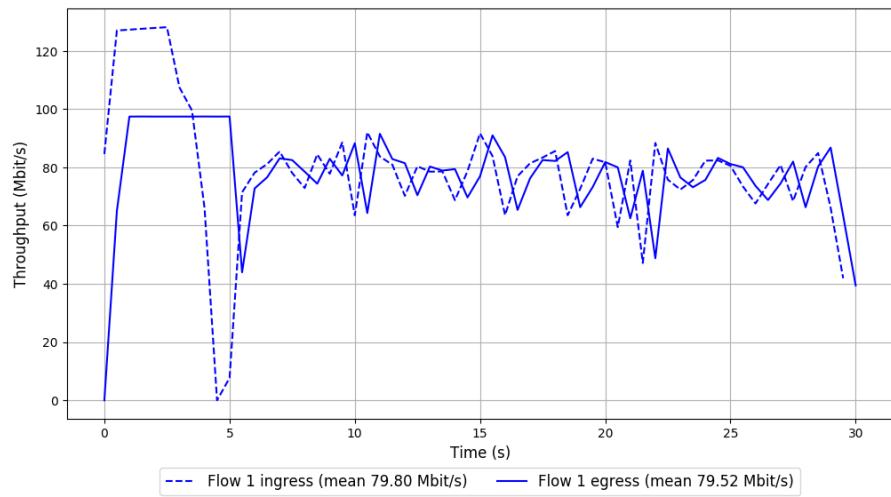


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 10:13:35
End at: 2019-07-12 10:14:05
Local clock offset: -4.702 ms
Remote clock offset: -2.403 ms

# Below is generated by plot.py at 2019-07-12 12:36:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.52 Mbit/s
95th percentile per-packet one-way delay: 867.478 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 79.52 Mbit/s
95th percentile per-packet one-way delay: 867.478 ms
Loss rate: 0.44%
```

Run 1: Report of Muses_DecisionTree — Data Link

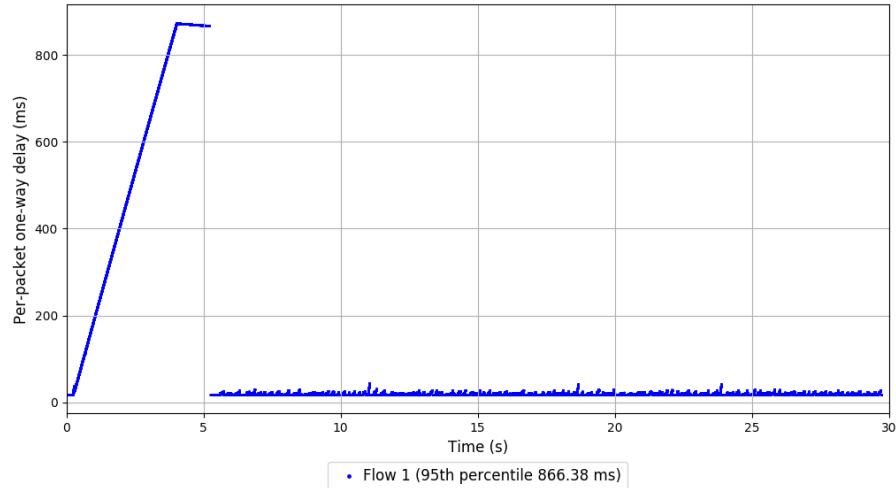
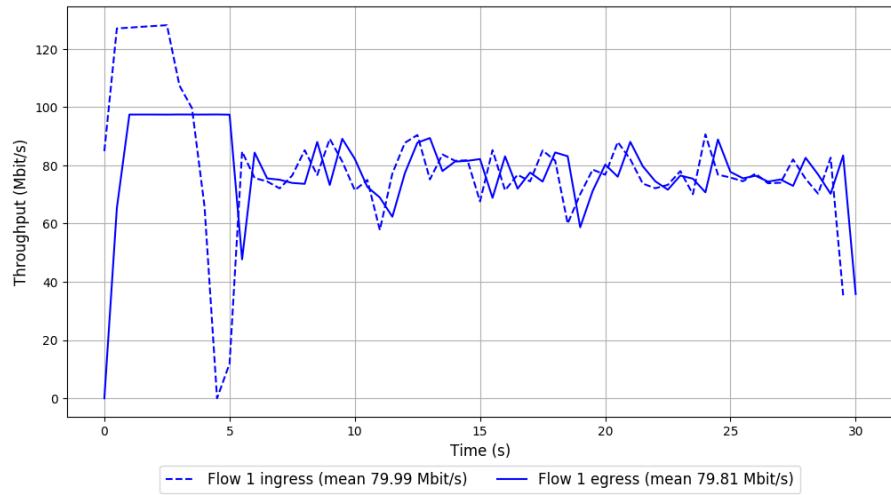


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 10:41:57
End at: 2019-07-12 10:42:27
Local clock offset: -1.336 ms
Remote clock offset: 0.626 ms

# Below is generated by plot.py at 2019-07-12 12:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.81 Mbit/s
95th percentile per-packet one-way delay: 866.381 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 79.81 Mbit/s
95th percentile per-packet one-way delay: 866.381 ms
Loss rate: 0.33%
```

Run 2: Report of Muses_DecisionTree — Data Link

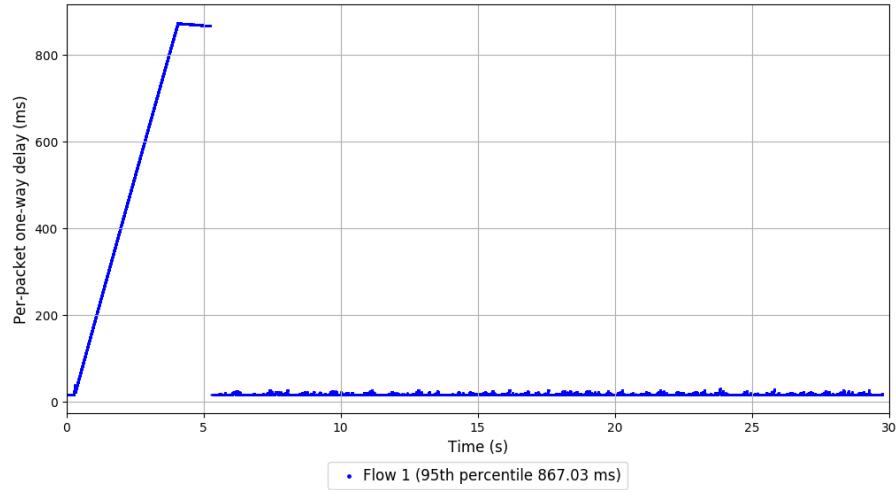
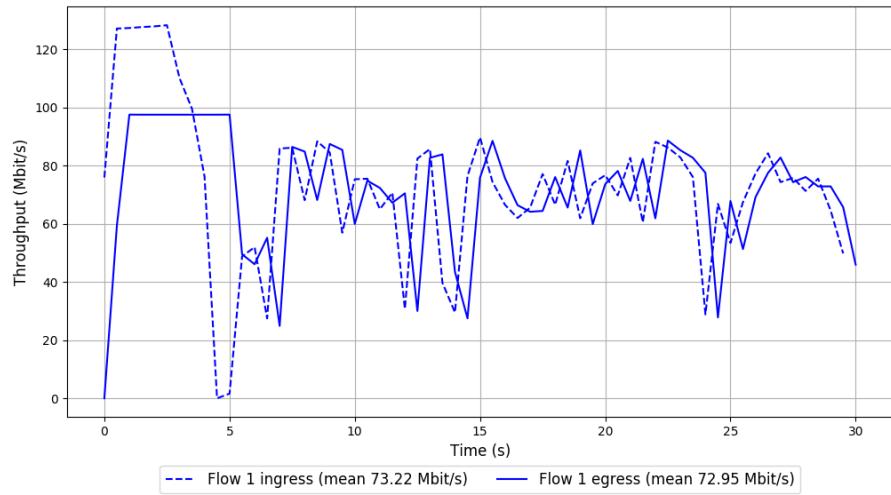


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 11:10:21
End at: 2019-07-12 11:10:51
Local clock offset: -4.611 ms
Remote clock offset: -2.634 ms

# Below is generated by plot.py at 2019-07-12 12:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.95 Mbit/s
95th percentile per-packet one-way delay: 867.028 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 72.95 Mbit/s
95th percentile per-packet one-way delay: 867.028 ms
Loss rate: 0.48%
```

Run 3: Report of Muses_DecisionTree — Data Link

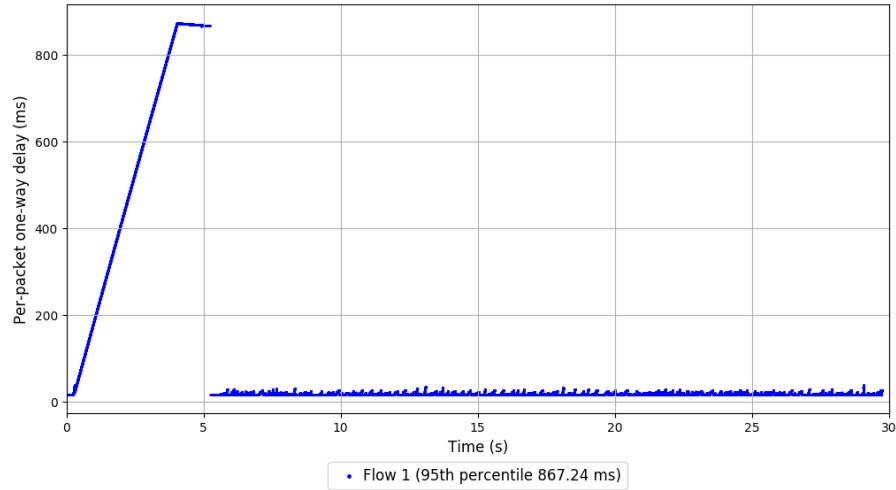
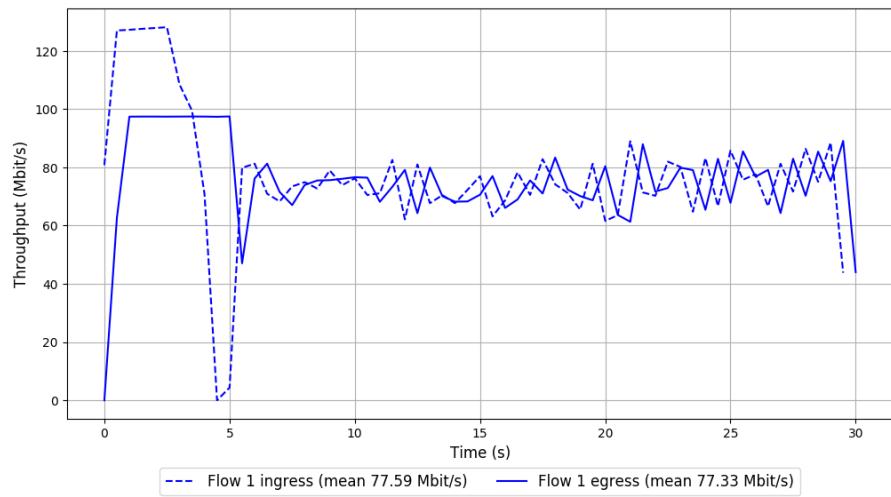


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 11:38:50
End at: 2019-07-12 11:39:20
Local clock offset: 3.014 ms
Remote clock offset: 2.0 ms

# Below is generated by plot.py at 2019-07-12 12:37:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.33 Mbit/s
95th percentile per-packet one-way delay: 867.240 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 77.33 Mbit/s
95th percentile per-packet one-way delay: 867.240 ms
Loss rate: 0.38%
```

Run 4: Report of Muses_DecisionTree — Data Link

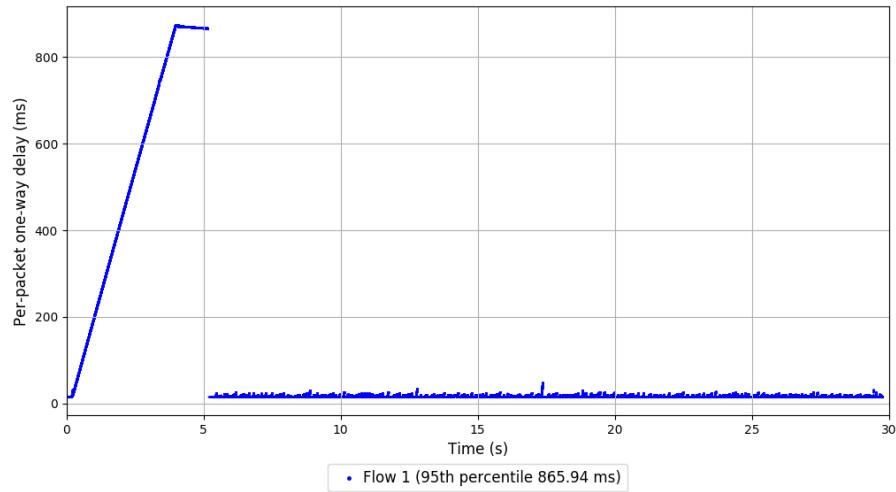
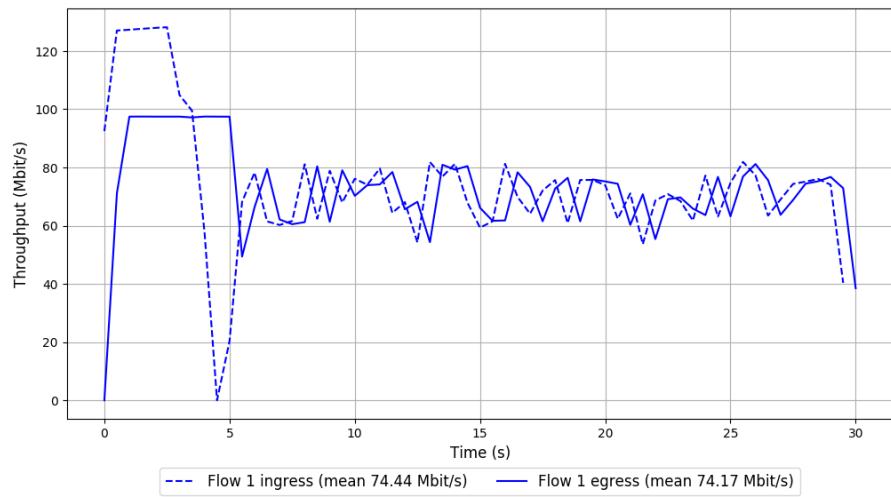


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 12:08:00
End at: 2019-07-12 12:08:30
Local clock offset: 0.996 ms
Remote clock offset: 1.611 ms

# Below is generated by plot.py at 2019-07-12 12:37:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.17 Mbit/s
95th percentile per-packet one-way delay: 865.939 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 74.17 Mbit/s
95th percentile per-packet one-way delay: 865.939 ms
Loss rate: 0.45%
```

Run 5: Report of Muses_DecisionTree — Data Link

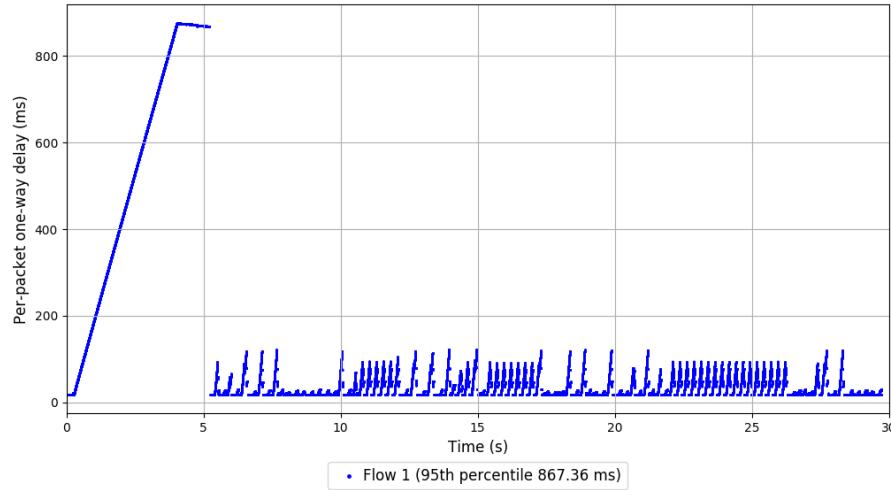
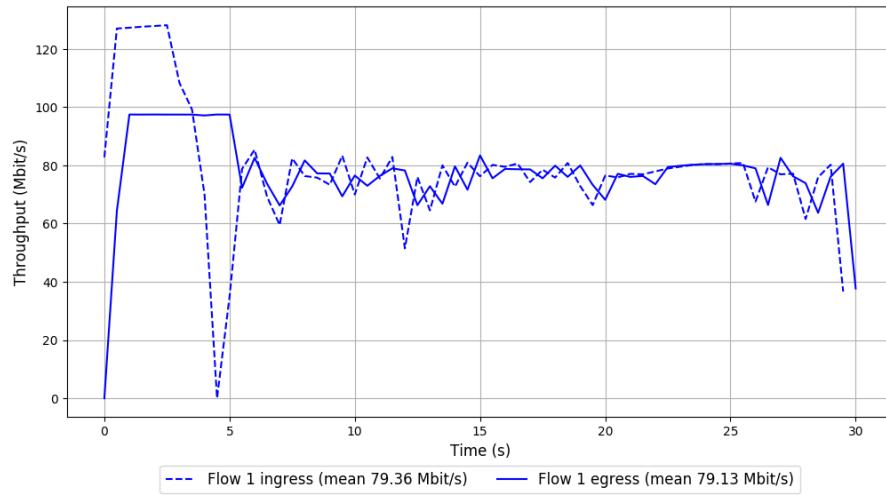


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 10:07:51
End at: 2019-07-12 10:08:21
Local clock offset: -4.599 ms
Remote clock offset: -2.598 ms

# Below is generated by plot.py at 2019-07-12 12:37:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.13 Mbit/s
95th percentile per-packet one-way delay: 867.359 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 79.13 Mbit/s
95th percentile per-packet one-way delay: 867.359 ms
Loss rate: 0.36%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

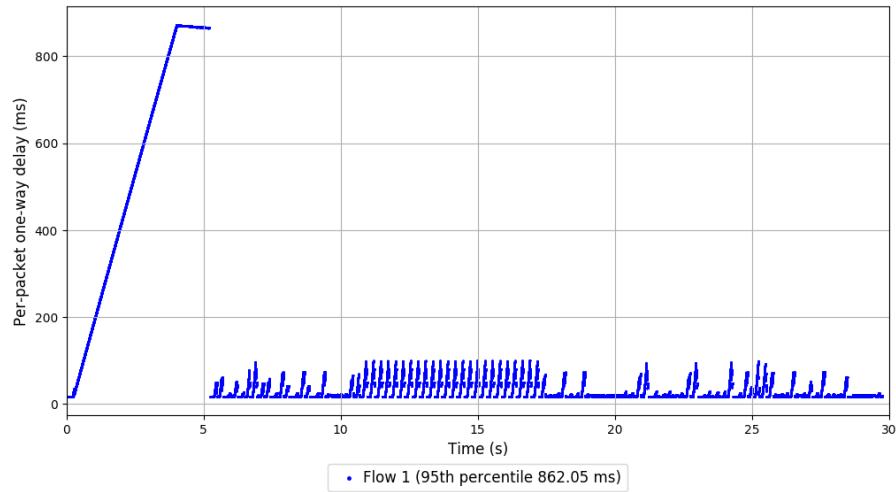
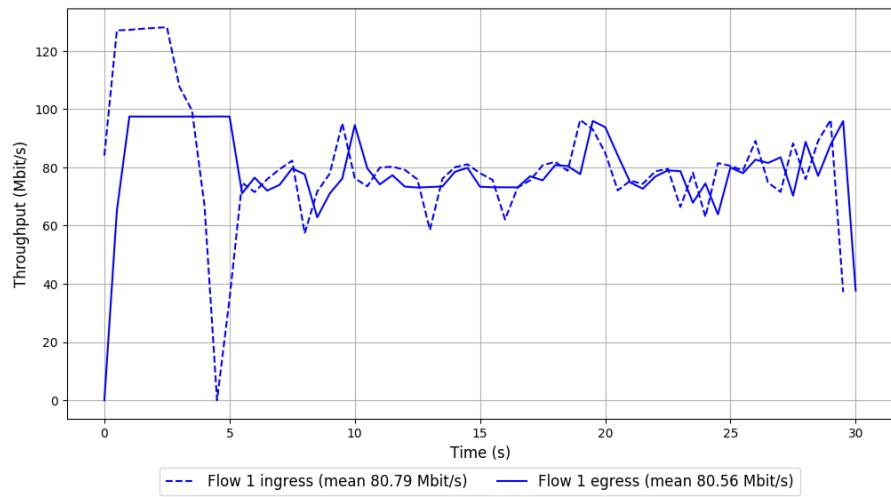


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 10:36:07
End at: 2019-07-12 10:36:37
Local clock offset: -2.965 ms
Remote clock offset: 2.049 ms

# Below is generated by plot.py at 2019-07-12 12:37:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.56 Mbit/s
95th percentile per-packet one-way delay: 862.050 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 80.56 Mbit/s
95th percentile per-packet one-way delay: 862.050 ms
Loss rate: 0.39%
```

Run 2: Report of Muses_DecisionTreeH0 — Data Link

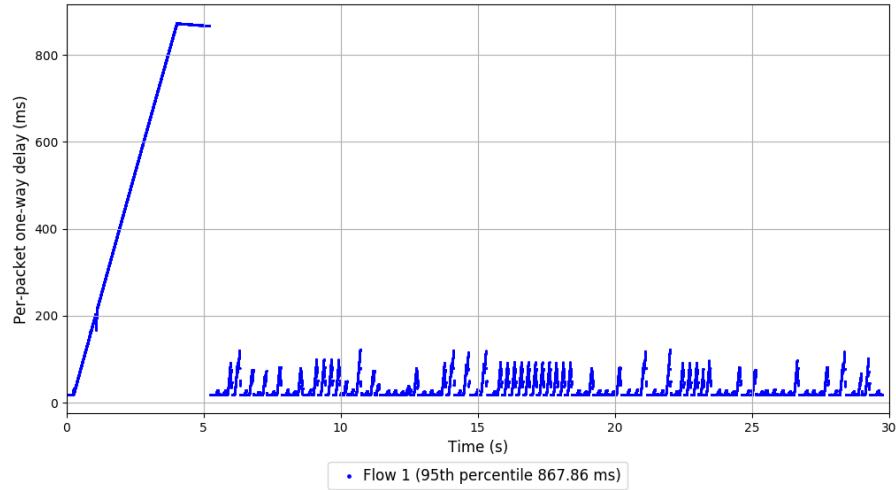
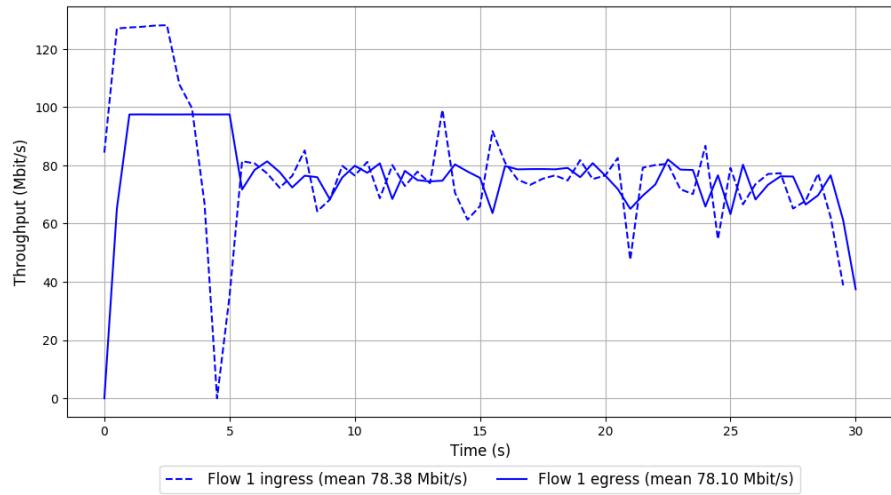


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 11:04:24
End at: 2019-07-12 11:04:54
Local clock offset: 1.721 ms
Remote clock offset: -0.504 ms

# Below is generated by plot.py at 2019-07-12 12:37:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.10 Mbit/s
95th percentile per-packet one-way delay: 867.862 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 78.10 Mbit/s
95th percentile per-packet one-way delay: 867.862 ms
Loss rate: 0.44%
```

Run 3: Report of Muses_DecisionTreeH0 — Data Link

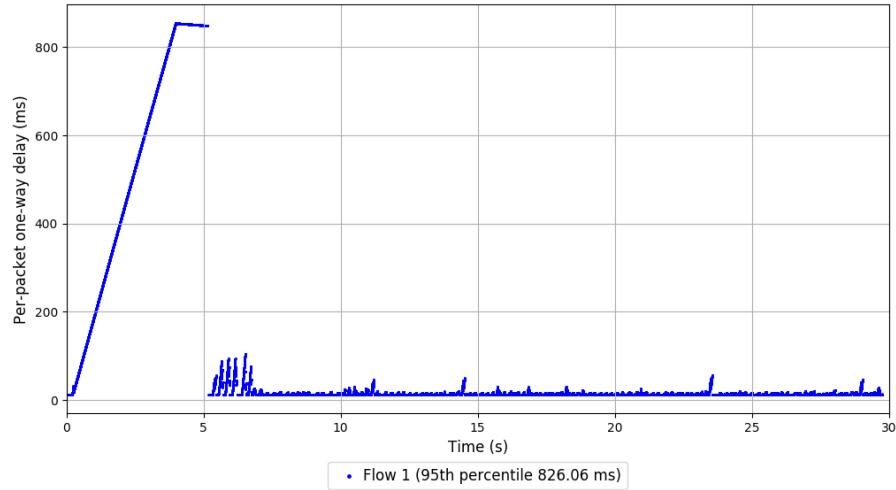
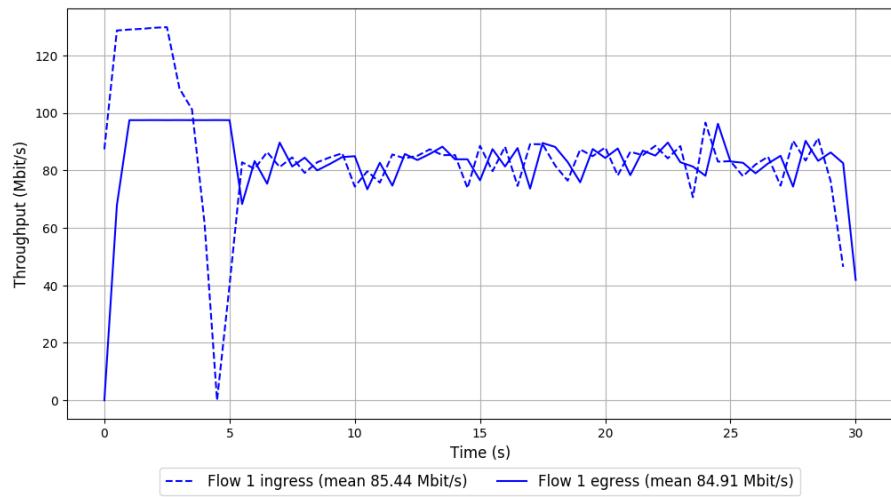


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 11:33:05
End at: 2019-07-12 11:33:35
Local clock offset: 3.349 ms
Remote clock offset: 3.958 ms

# Below is generated by plot.py at 2019-07-12 12:38:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 826.063 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 826.063 ms
Loss rate: 0.71%
```

Run 4: Report of Muses_DecisionTreeH0 — Data Link

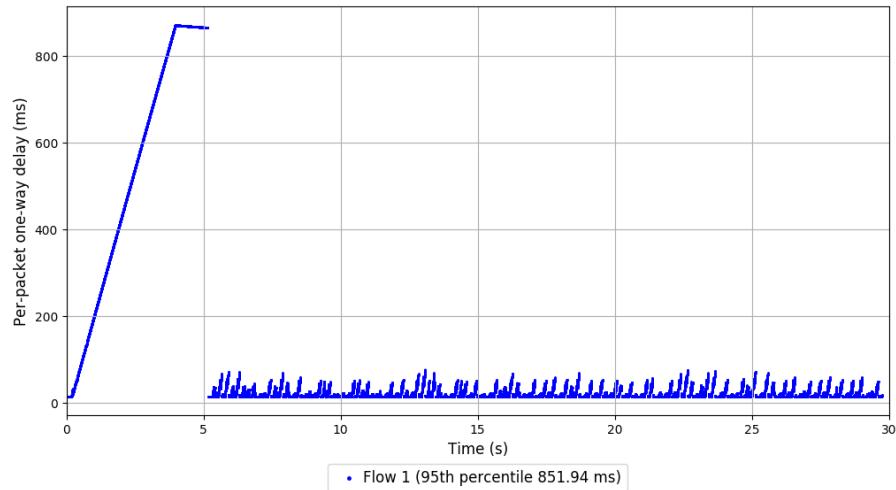
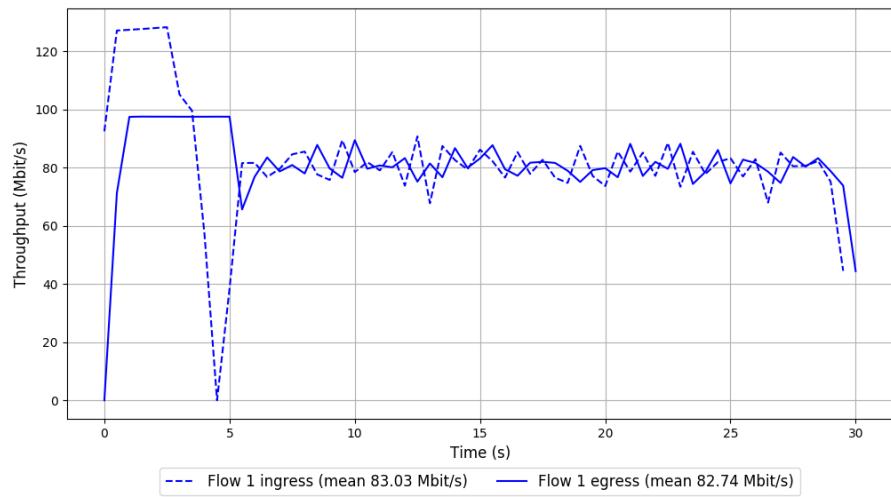


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 12:02:03
End at: 2019-07-12 12:02:33
Local clock offset: 2.2 ms
Remote clock offset: 2.162 ms

# Below is generated by plot.py at 2019-07-12 12:38:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.74 Mbit/s
95th percentile per-packet one-way delay: 851.939 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 82.74 Mbit/s
95th percentile per-packet one-way delay: 851.939 ms
Loss rate: 0.42%
```

Run 5: Report of Muses_DecisionTreeH0 — Data Link

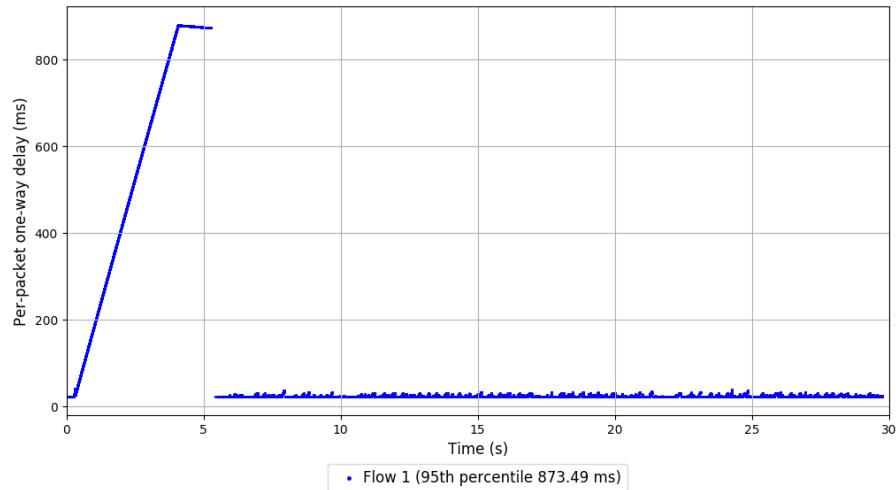
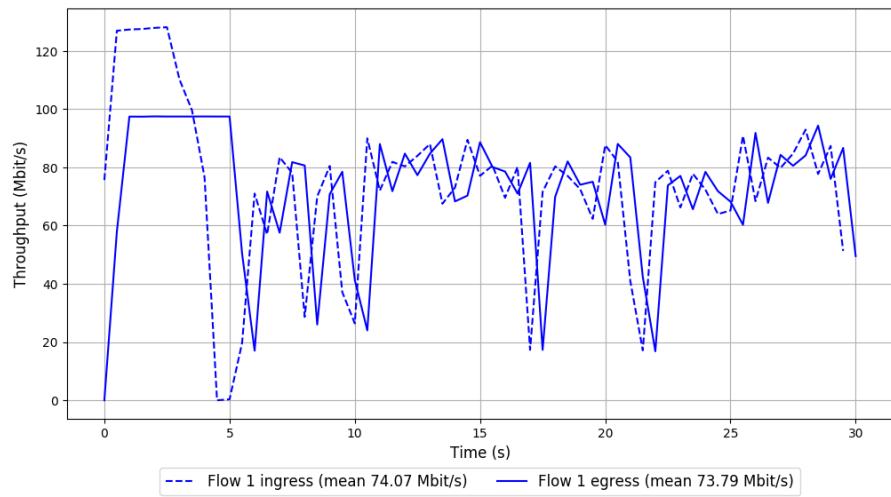


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 10:20:41
End at: 2019-07-12 10:21:11
Local clock offset: -3.889 ms
Remote clock offset: -0.343 ms

# Below is generated by plot.py at 2019-07-12 12:38:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.79 Mbit/s
95th percentile per-packet one-way delay: 873.494 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 73.79 Mbit/s
95th percentile per-packet one-way delay: 873.494 ms
Loss rate: 0.48%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

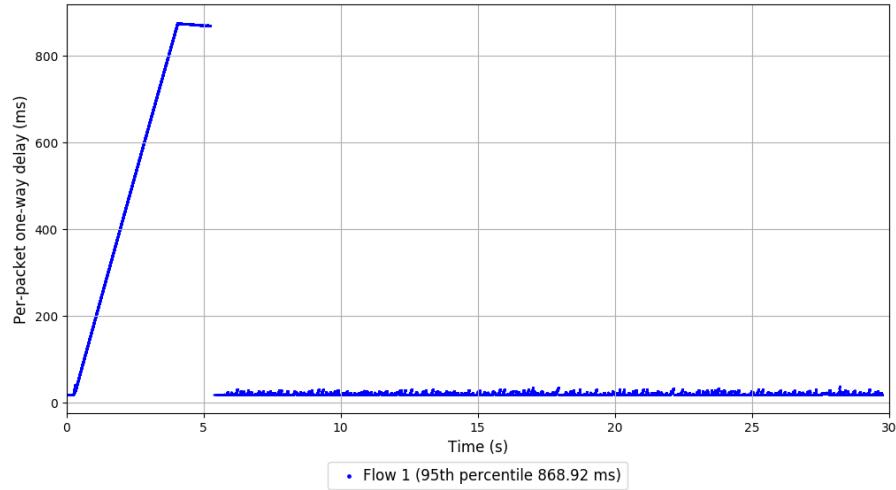
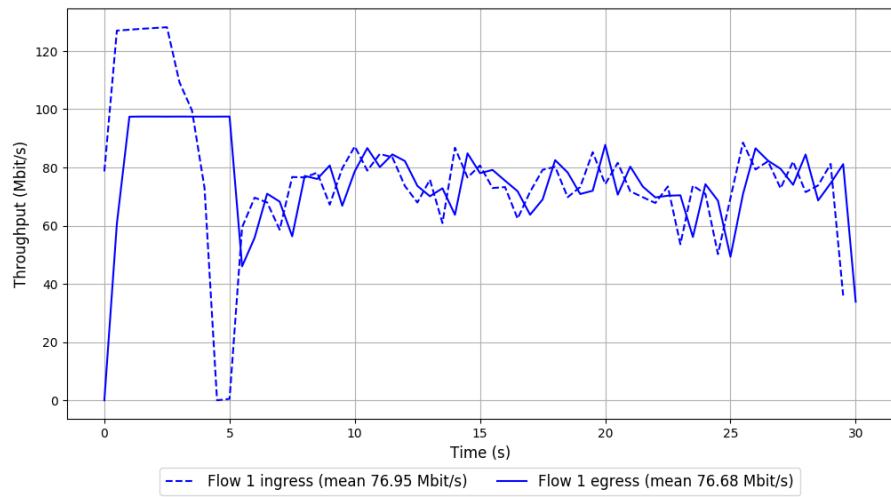


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 10:49:00
End at: 2019-07-12 10:49:30
Local clock offset: -1.401 ms
Remote clock offset: 1.287 ms

# Below is generated by plot.py at 2019-07-12 12:38:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.68 Mbit/s
95th percentile per-packet one-way delay: 868.916 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 76.68 Mbit/s
95th percentile per-packet one-way delay: 868.916 ms
Loss rate: 0.45%
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link

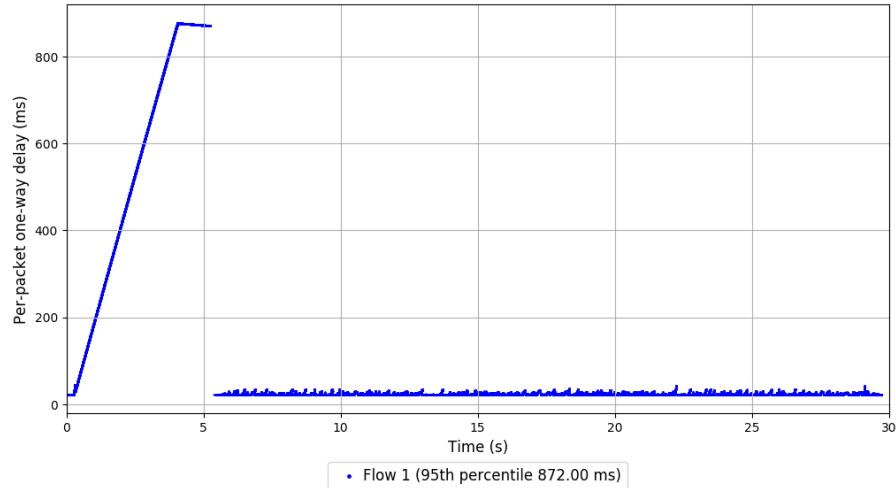
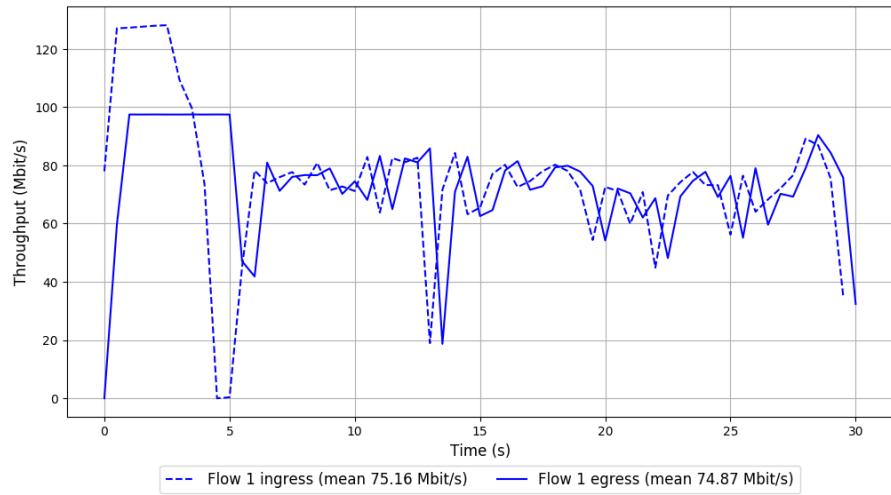


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 11:17:35
End at: 2019-07-12 11:18:05
Local clock offset: 3.979 ms
Remote clock offset: -1.462 ms

# Below is generated by plot.py at 2019-07-12 12:38:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.87 Mbit/s
95th percentile per-packet one-way delay: 872.000 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 74.87 Mbit/s
95th percentile per-packet one-way delay: 872.000 ms
Loss rate: 0.49%
```

Run 3: Report of Muses_DecisionTreeR0 — Data Link

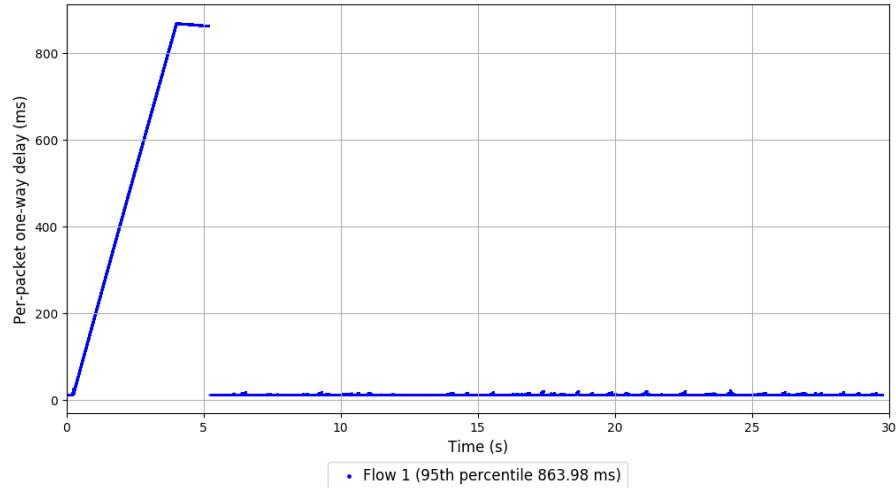
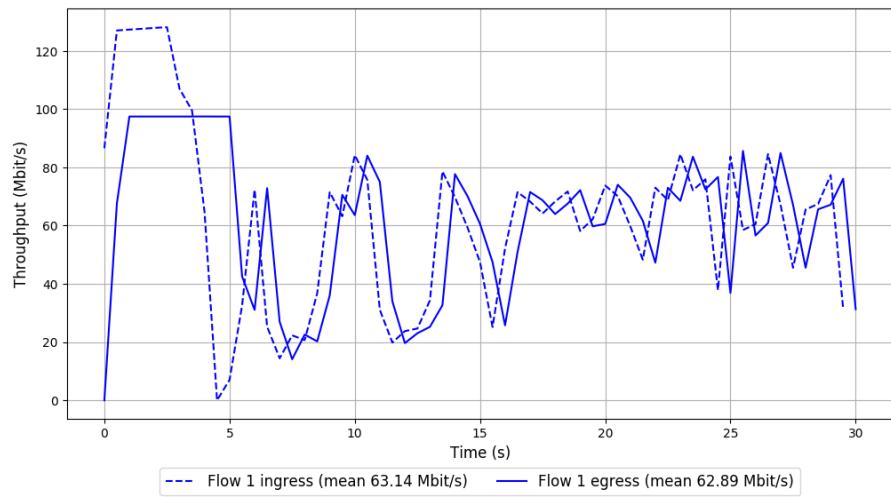


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 11:46:14
End at: 2019-07-12 11:46:44
Local clock offset: 3.717 ms
Remote clock offset: 3.445 ms

# Below is generated by plot.py at 2019-07-12 12:38:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.89 Mbit/s
95th percentile per-packet one-way delay: 863.978 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 62.89 Mbit/s
95th percentile per-packet one-way delay: 863.978 ms
Loss rate: 0.47%
```

Run 4: Report of Muses_DecisionTreeR0 — Data Link

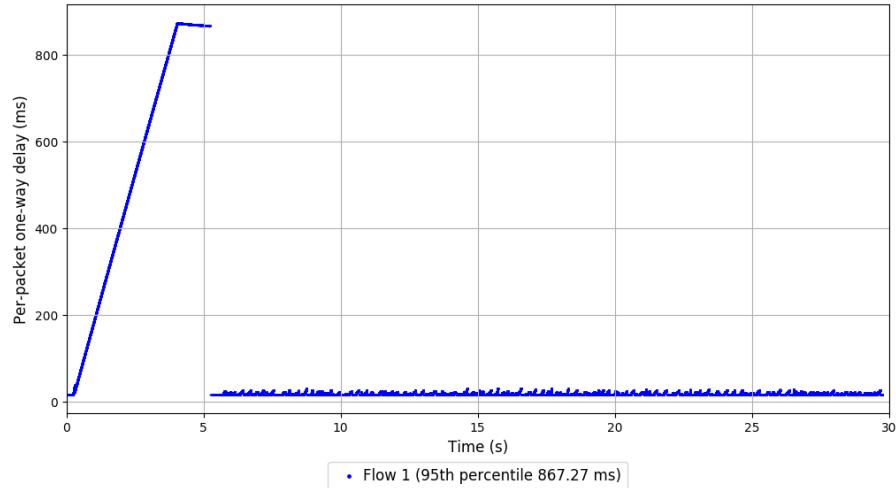
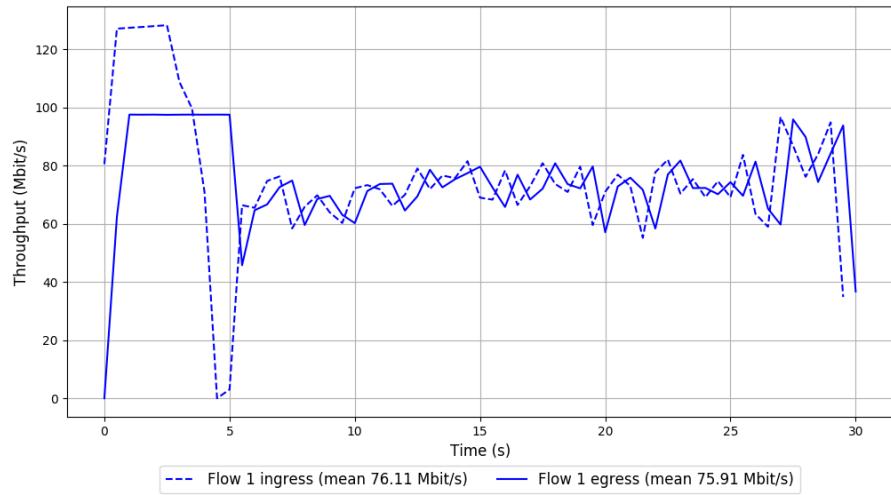


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 12:15:08
End at: 2019-07-12 12:15:38
Local clock offset: -1.223 ms
Remote clock offset: 1.634 ms

# Below is generated by plot.py at 2019-07-12 12:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.91 Mbit/s
95th percentile per-packet one-way delay: 867.272 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 75.91 Mbit/s
95th percentile per-packet one-way delay: 867.272 ms
Loss rate: 0.36%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link

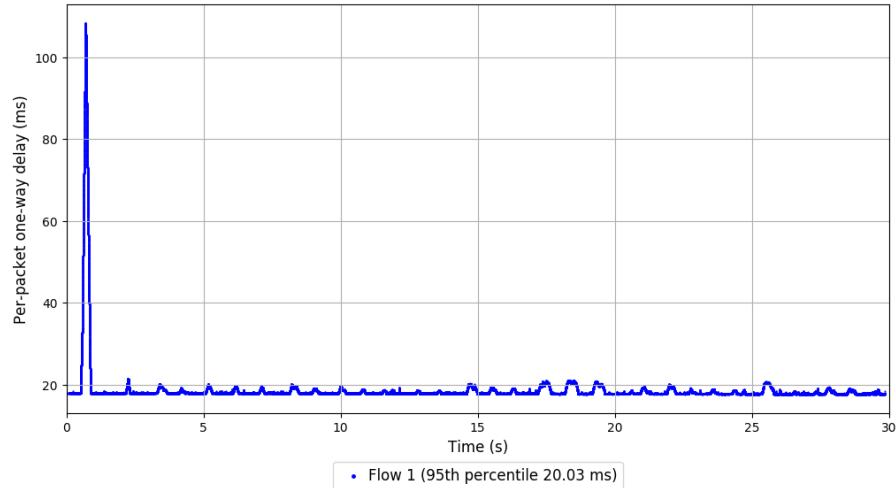
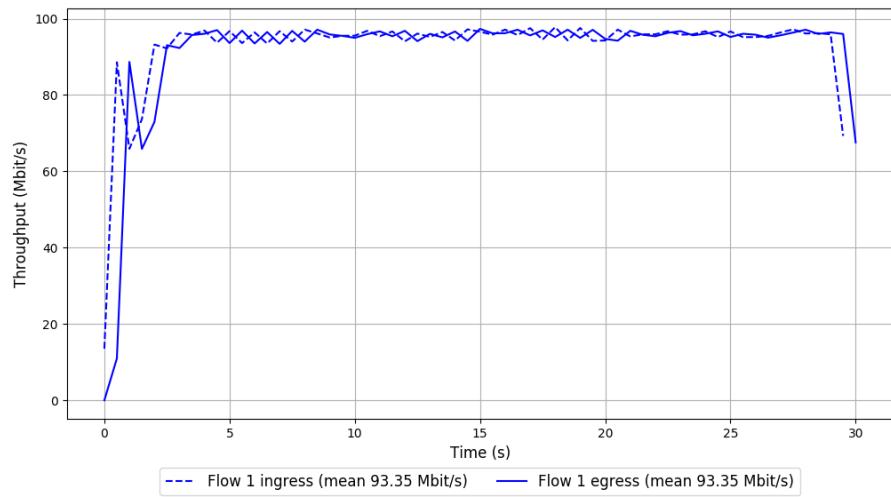


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-07-12 10:28:58
End at: 2019-07-12 10:29:28
Local clock offset: -5.538 ms
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2019-07-12 12:38:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 20.028 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 20.028 ms
Loss rate: 0.09%
```

Run 1: Report of PCC-Allegro — Data Link

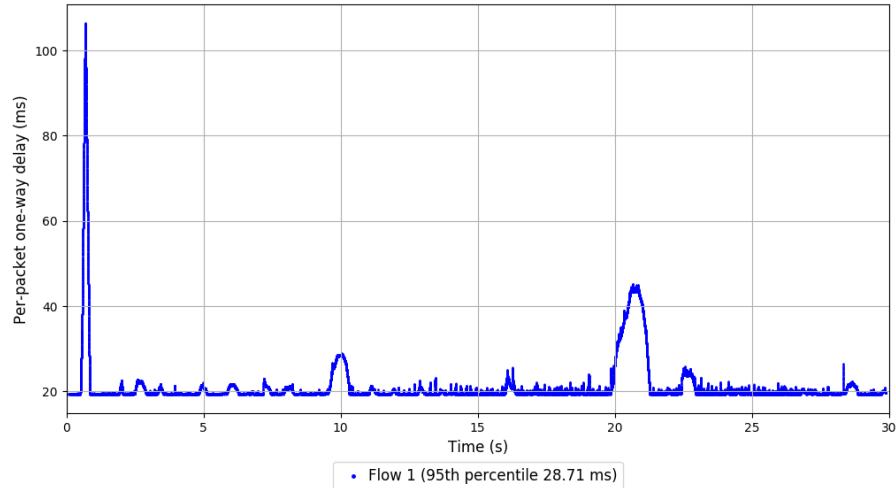
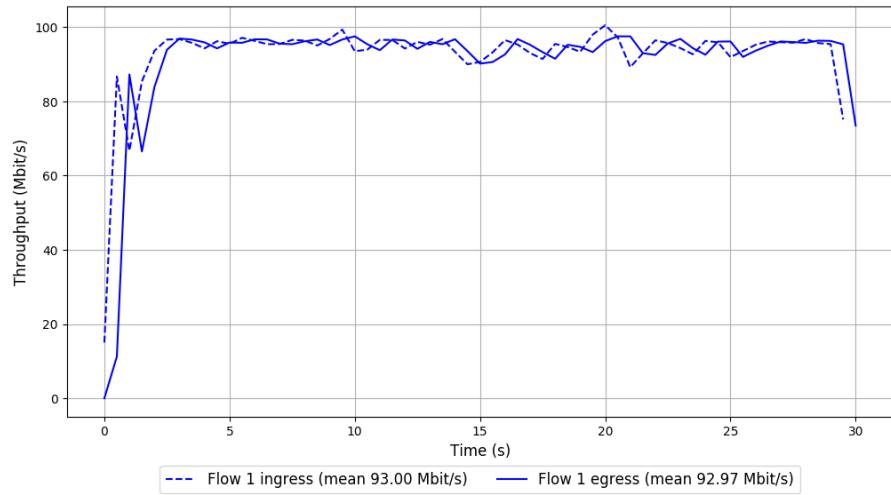


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-07-12 10:57:12
End at: 2019-07-12 10:57:42
Local clock offset: -0.07 ms
Remote clock offset: -1.135 ms

# Below is generated by plot.py at 2019-07-12 12:39:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.97 Mbit/s
95th percentile per-packet one-way delay: 28.714 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 92.97 Mbit/s
95th percentile per-packet one-way delay: 28.714 ms
Loss rate: 0.13%
```

Run 2: Report of PCC-Allegro — Data Link

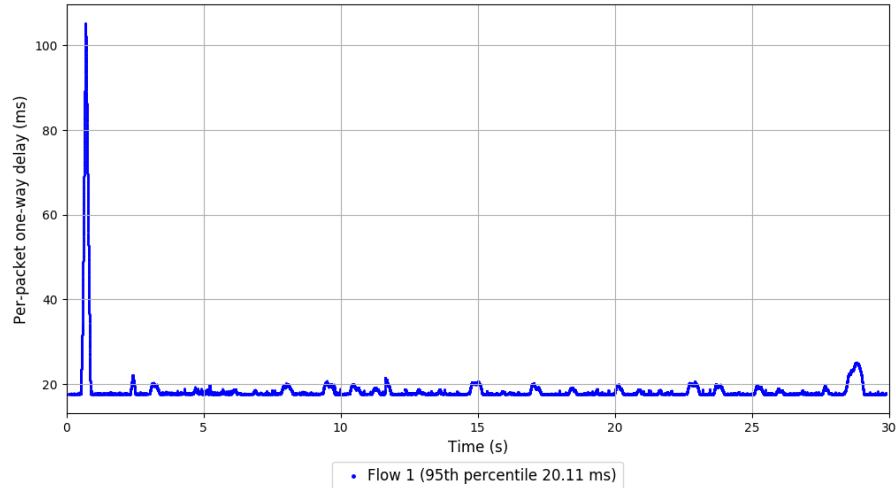
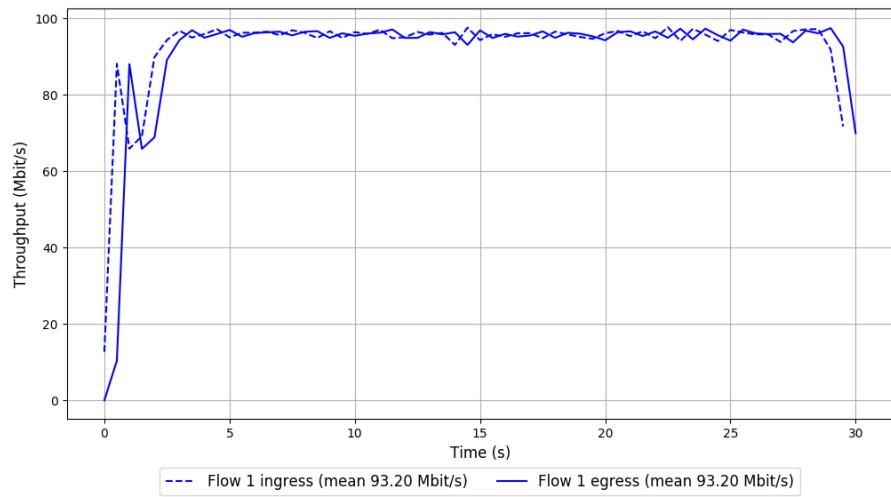


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-07-12 11:25:49
End at: 2019-07-12 11:26:19
Local clock offset: 4.763 ms
Remote clock offset: -0.751 ms

# Below is generated by plot.py at 2019-07-12 12:39:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 20.115 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 20.115 ms
Loss rate: 0.09%
```

Run 3: Report of PCC-Allegro — Data Link

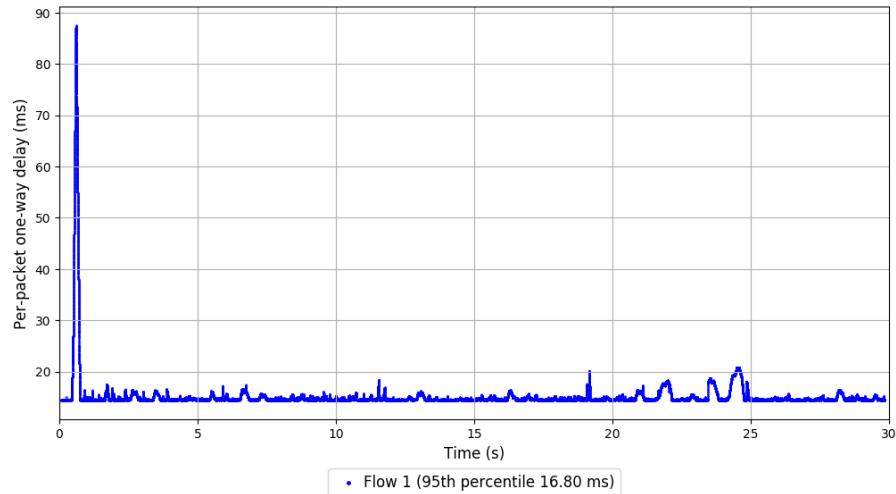
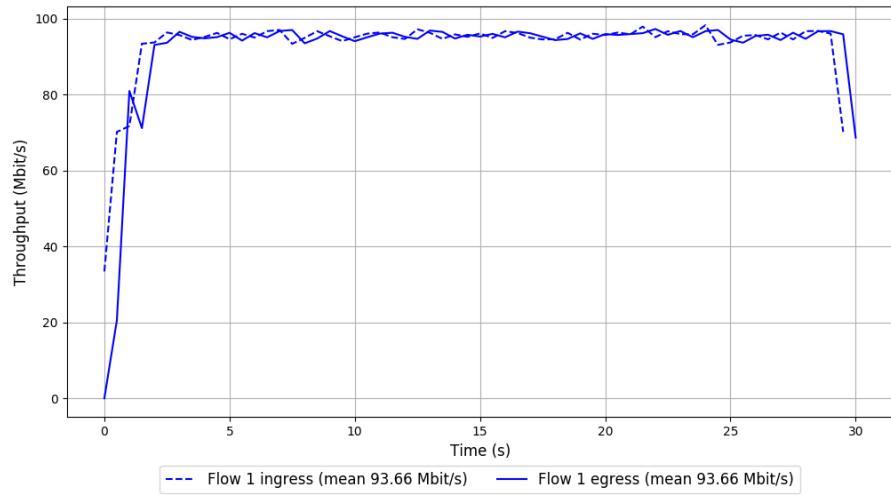


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-07-12 11:54:35
End at: 2019-07-12 11:55:05
Local clock offset: 4.215 ms
Remote clock offset: 2.013 ms

# Below is generated by plot.py at 2019-07-12 12:39:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 16.805 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 16.805 ms
Loss rate: 0.08%
```

Run 4: Report of PCC-Allegro — Data Link

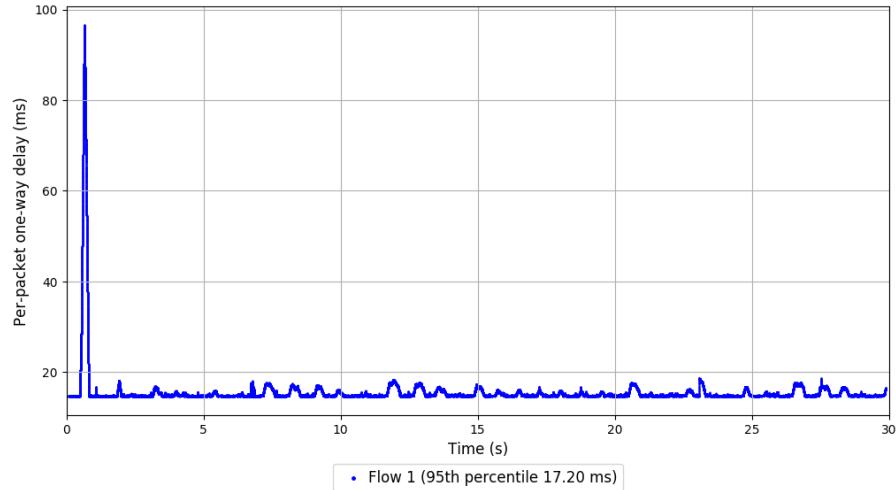
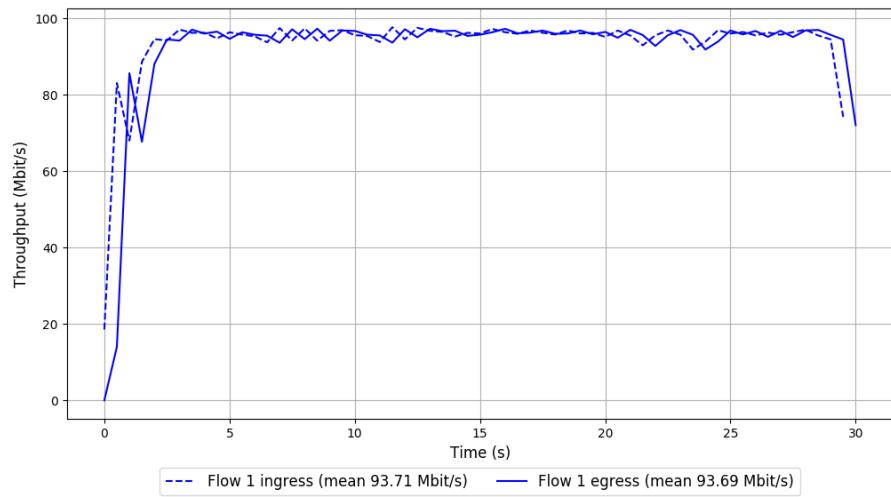


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-07-12 12:23:26
End at: 2019-07-12 12:23:56
Local clock offset: -0.812 ms
Remote clock offset: 1.71 ms

# Below is generated by plot.py at 2019-07-12 12:39:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 17.196 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 17.196 ms
Loss rate: 0.09%
```

Run 5: Report of PCC-Allegro — Data Link

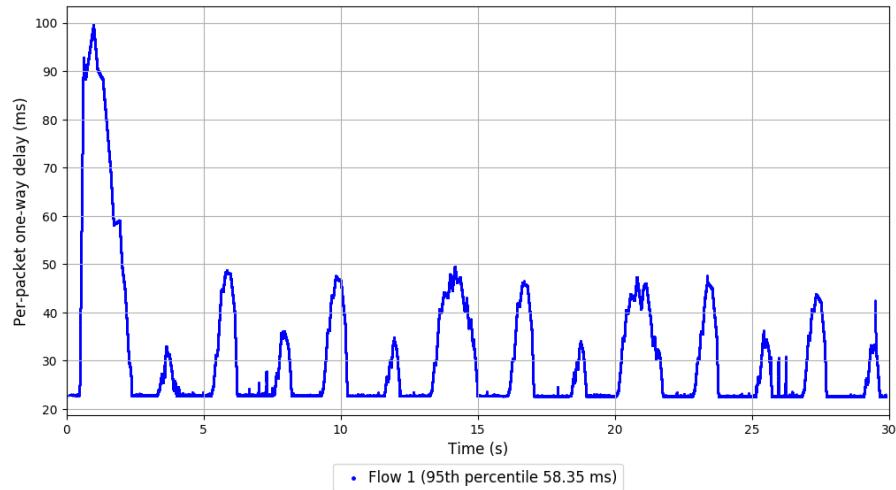
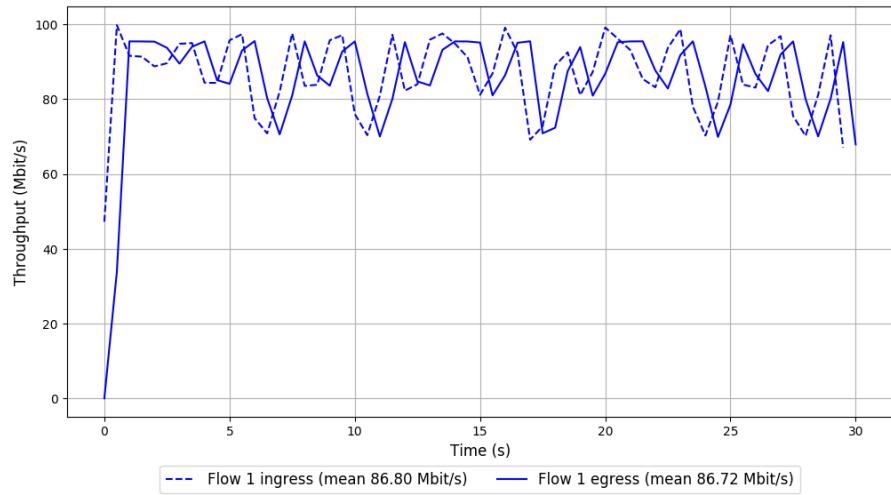


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-07-12 10:30:07
End at: 2019-07-12 10:30:37
Local clock offset: -4.922 ms
Remote clock offset: -0.542 ms

# Below is generated by plot.py at 2019-07-12 12:40:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.72 Mbit/s
95th percentile per-packet one-way delay: 58.353 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 86.72 Mbit/s
95th percentile per-packet one-way delay: 58.353 ms
Loss rate: 0.19%
```

Run 1: Report of PCC-Expr — Data Link

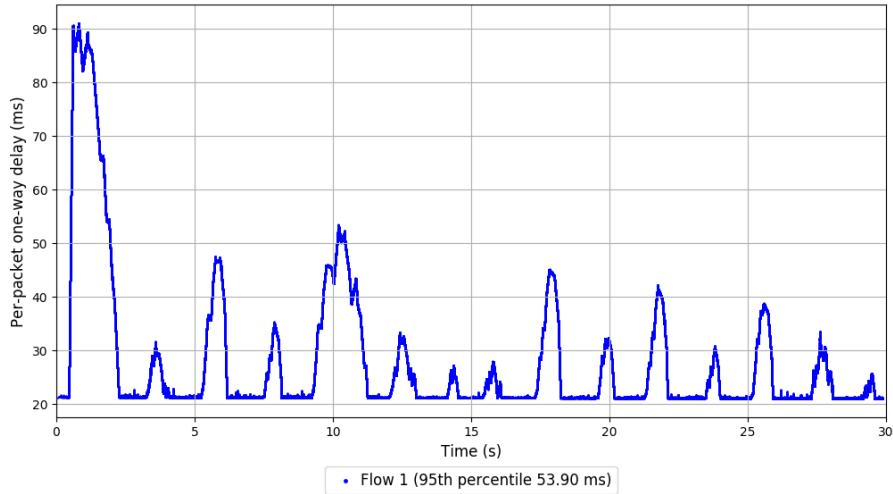
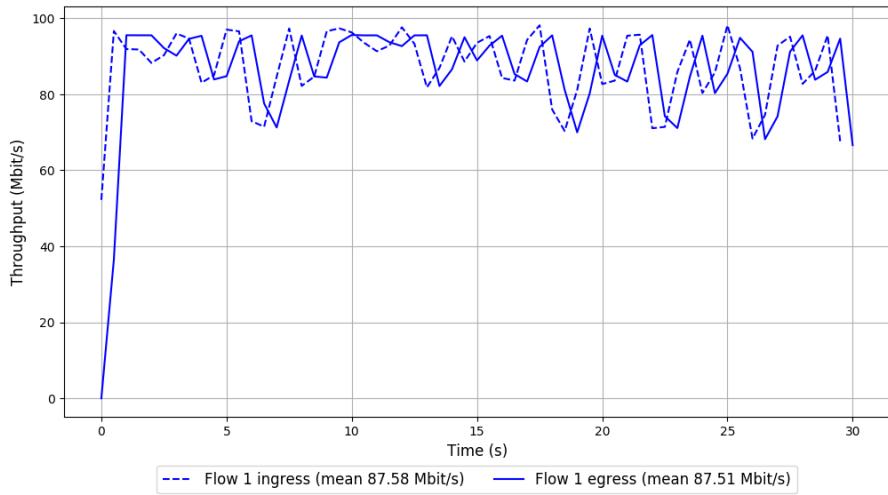


Run 2: Statistics of PCC-Expr

```
Start at: 2019-07-12 10:58:20
End at: 2019-07-12 10:58:50
Local clock offset: -0.403 ms
Remote clock offset: 0.551 ms

# Below is generated by plot.py at 2019-07-12 12:40:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 53.898 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 53.898 ms
Loss rate: 0.18%
```

Run 2: Report of PCC-Expr — Data Link

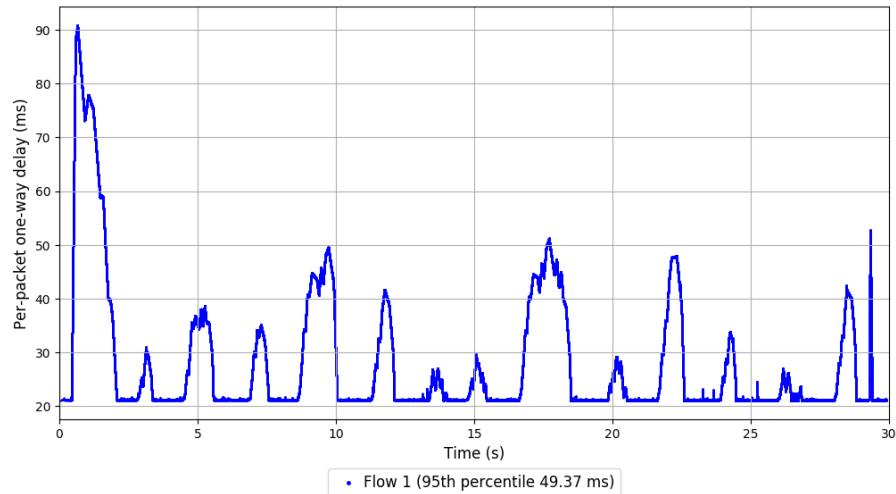
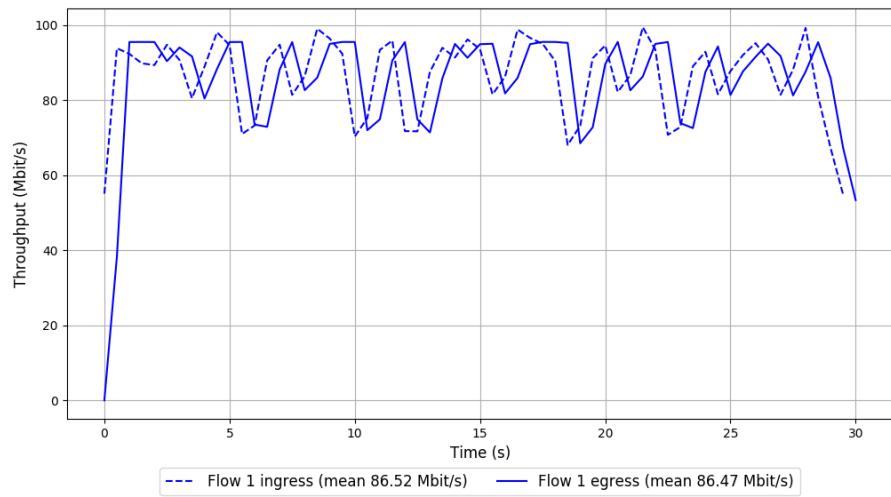


Run 3: Statistics of PCC-Expr

```
Start at: 2019-07-12 11:27:07
End at: 2019-07-12 11:27:37
Local clock offset: 4.755 ms
Remote clock offset: -1.158 ms

# Below is generated by plot.py at 2019-07-12 12:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.47 Mbit/s
95th percentile per-packet one-way delay: 49.365 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 86.47 Mbit/s
95th percentile per-packet one-way delay: 49.365 ms
Loss rate: 0.16%
```

Run 3: Report of PCC-Expr — Data Link

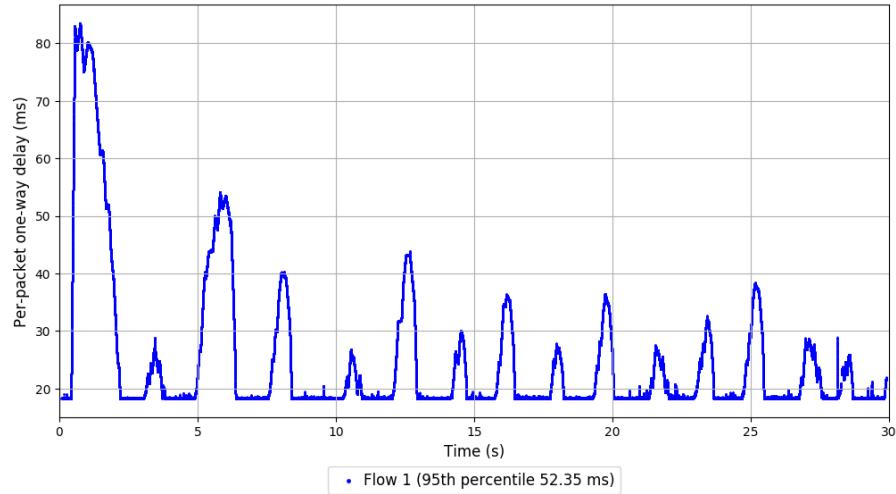
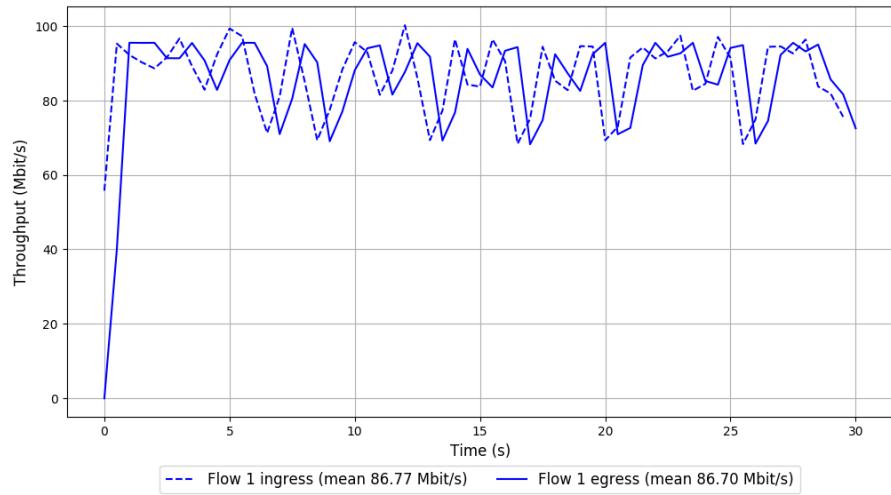


Run 4: Statistics of PCC-Expr

```
Start at: 2019-07-12 11:55:45
End at: 2019-07-12 11:56:15
Local clock offset: 3.897 ms
Remote clock offset: 1.09 ms

# Below is generated by plot.py at 2019-07-12 12:41:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.70 Mbit/s
95th percentile per-packet one-way delay: 52.351 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 86.70 Mbit/s
95th percentile per-packet one-way delay: 52.351 ms
Loss rate: 0.16%
```

Run 4: Report of PCC-Expr — Data Link

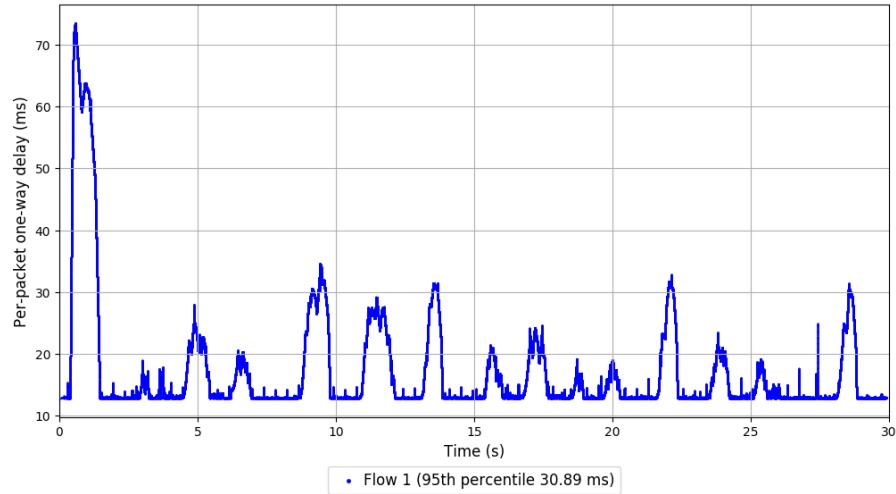
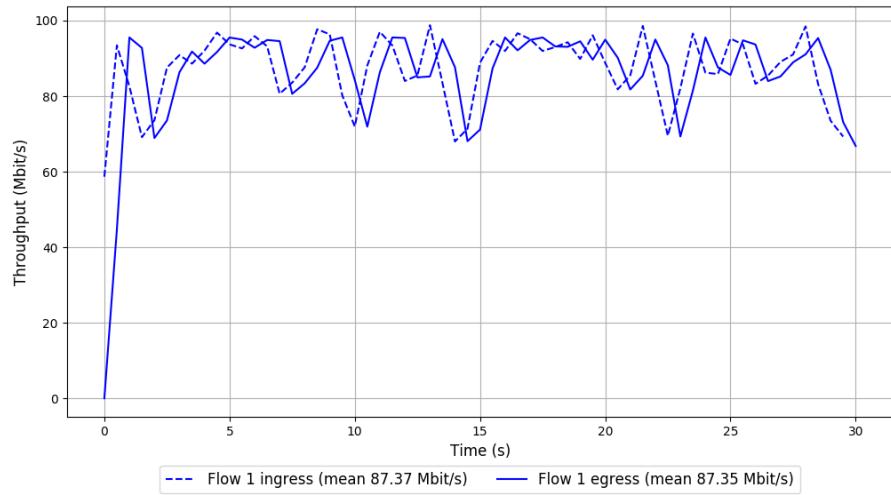


Run 5: Statistics of PCC-Expr

```
Start at: 2019-07-12 12:24:36
End at: 2019-07-12 12:25:06
Local clock offset: -8.335 ms
Remote clock offset: -3.408 ms

# Below is generated by plot.py at 2019-07-12 12:41:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.35 Mbit/s
95th percentile per-packet one-way delay: 30.891 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 87.35 Mbit/s
95th percentile per-packet one-way delay: 30.891 ms
Loss rate: 0.10%
```

Run 5: Report of PCC-Expr — Data Link

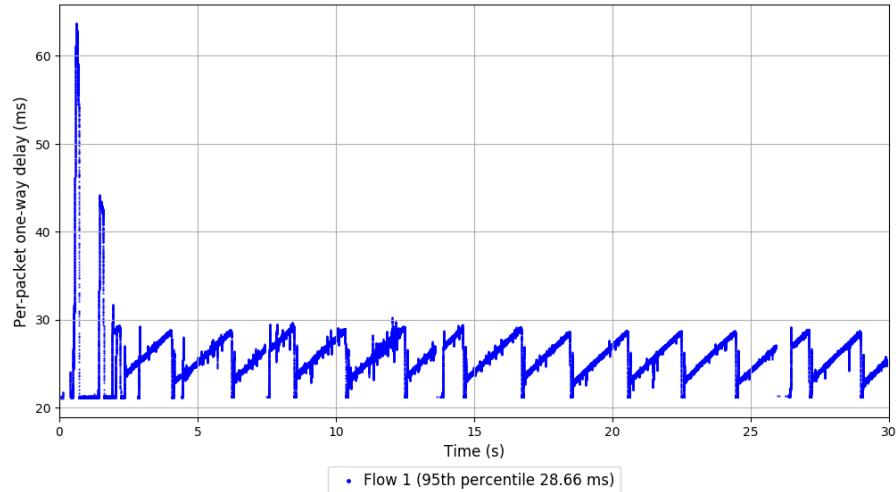
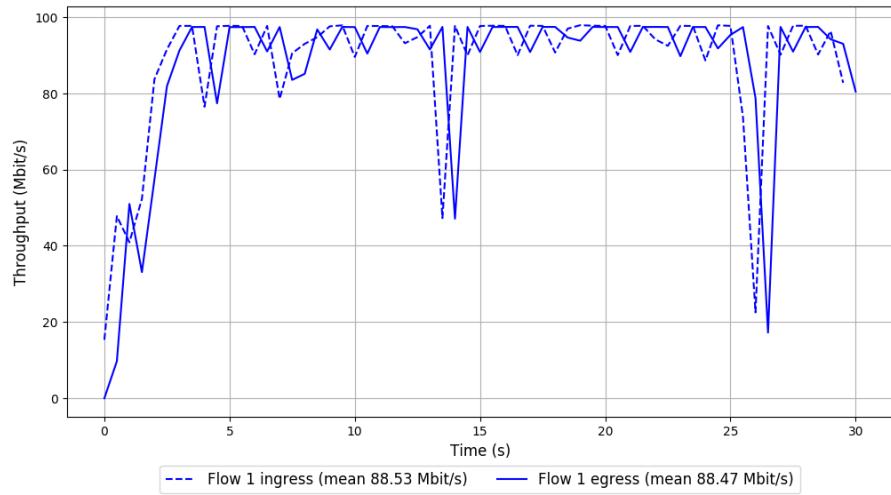


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-07-12 10:14:44
End at: 2019-07-12 10:15:14
Local clock offset: -4.168 ms
Remote clock offset: 0.197 ms

# Below is generated by plot.py at 2019-07-12 12:41:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.47 Mbit/s
95th percentile per-packet one-way delay: 28.661 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 88.47 Mbit/s
95th percentile per-packet one-way delay: 28.661 ms
Loss rate: 0.18%
```

Run 1: Report of QUIC Cubic — Data Link

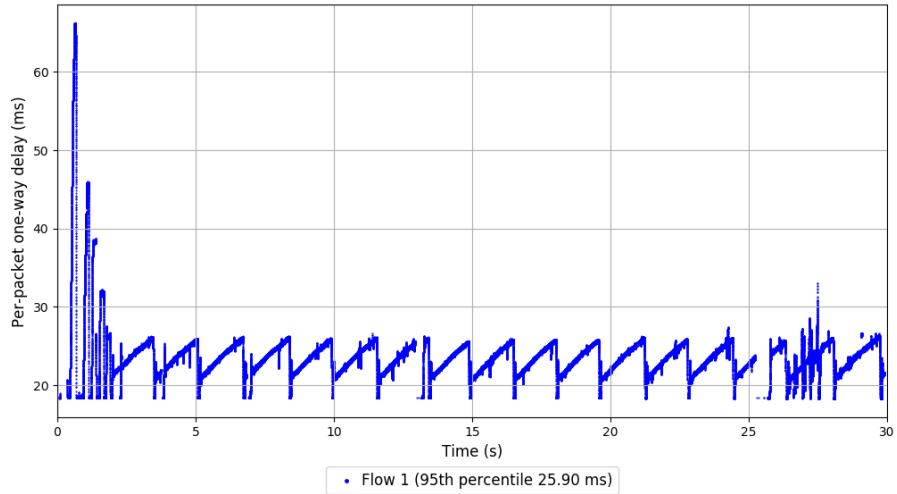
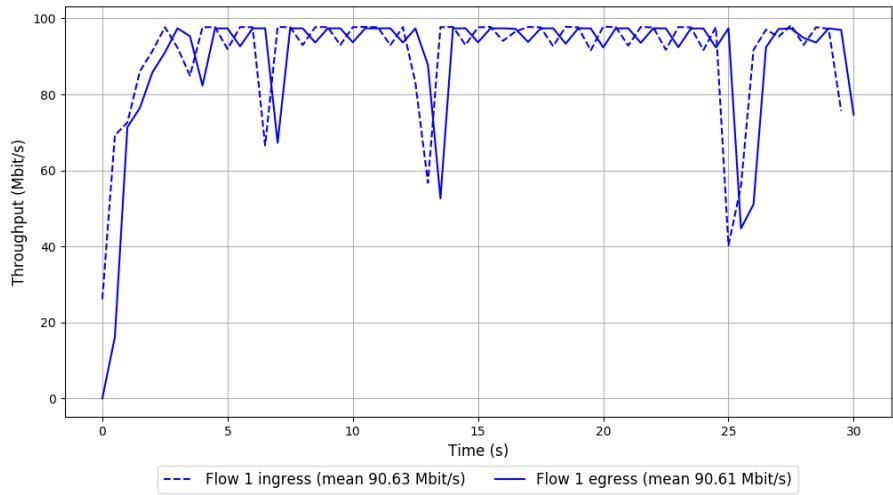


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-07-12 10:43:07
End at: 2019-07-12 10:43:37
Local clock offset: -0.998 ms
Remote clock offset: -0.239 ms

# Below is generated by plot.py at 2019-07-12 12:41:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 25.903 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 25.903 ms
Loss rate: 0.12%
```

Run 2: Report of QUIC Cubic — Data Link

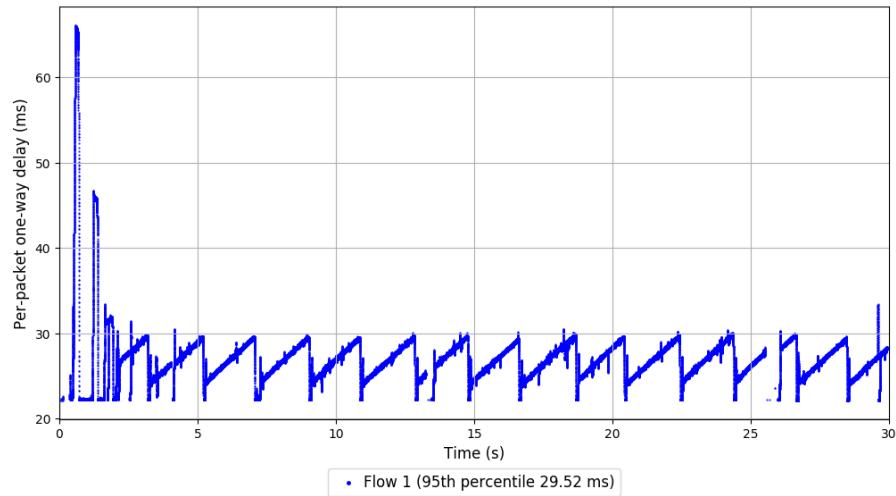
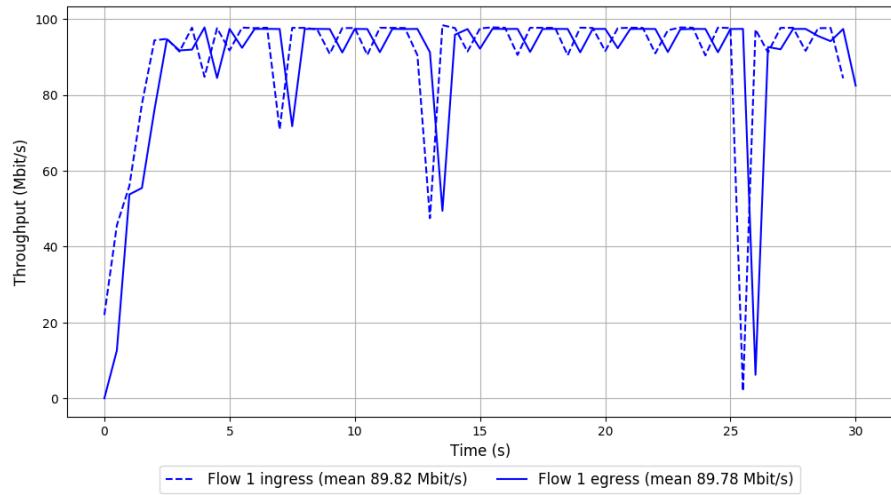


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-07-12 11:11:31
End at: 2019-07-12 11:12:01
Local clock offset: 4.005 ms
Remote clock offset: -1.144 ms

# Below is generated by plot.py at 2019-07-12 12:41:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.78 Mbit/s
95th percentile per-packet one-way delay: 29.524 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 89.78 Mbit/s
95th percentile per-packet one-way delay: 29.524 ms
Loss rate: 0.15%
```

Run 3: Report of QUIC Cubic — Data Link

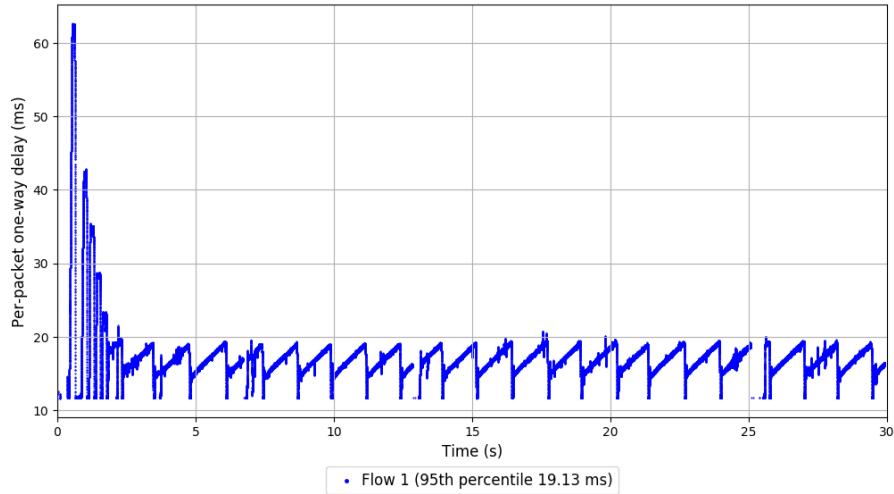
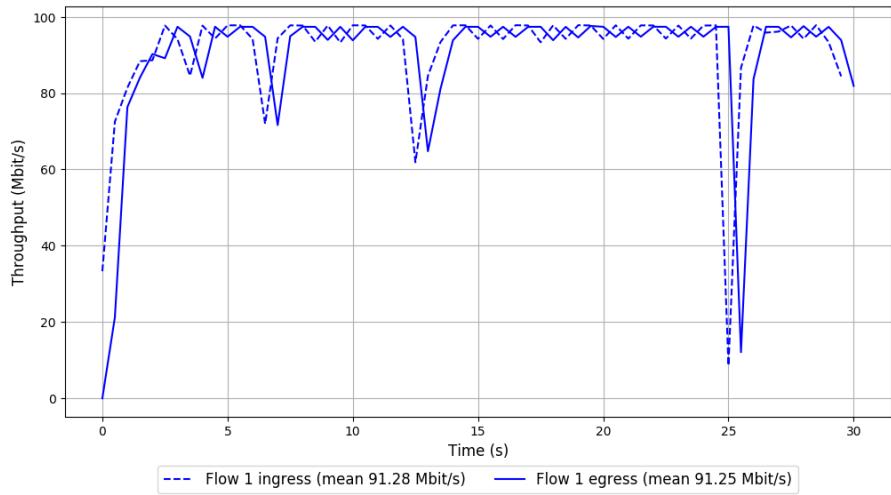


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-07-12 11:39:59
End at: 2019-07-12 11:40:29
Local clock offset: 3.411 ms
Remote clock offset: 4.502 ms

# Below is generated by plot.py at 2019-07-12 12:41:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 19.130 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 19.130 ms
Loss rate: 0.11%
```

Run 4: Report of QUIC Cubic — Data Link

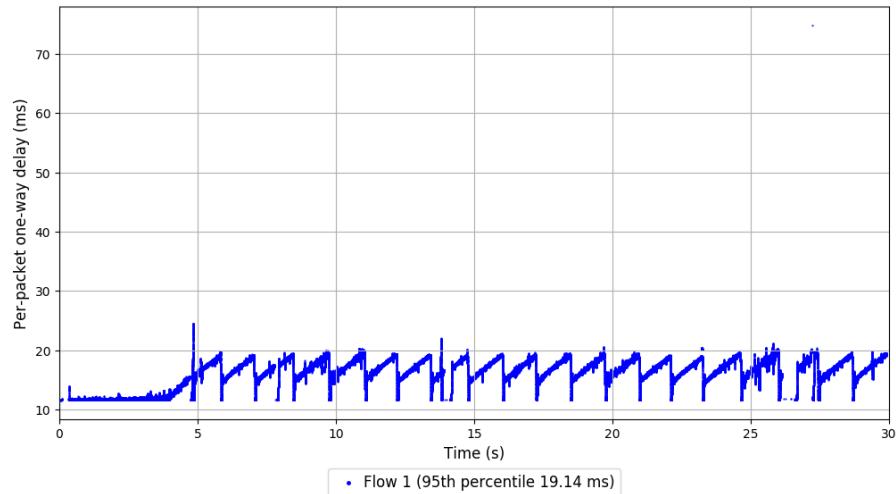
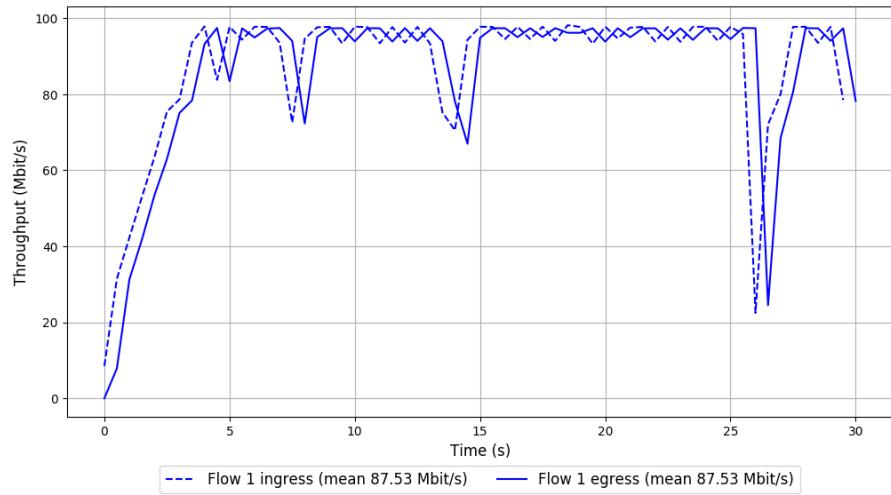


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-07-12 12:09:10
End at: 2019-07-12 12:09:40
Local clock offset: 0.629 ms
Remote clock offset: 4.584 ms

# Below is generated by plot.py at 2019-07-12 12:41:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.53 Mbit/s
95th percentile per-packet one-way delay: 19.142 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 87.53 Mbit/s
95th percentile per-packet one-way delay: 19.142 ms
Loss rate: 0.08%
```

Run 5: Report of QUIC Cubic — Data Link

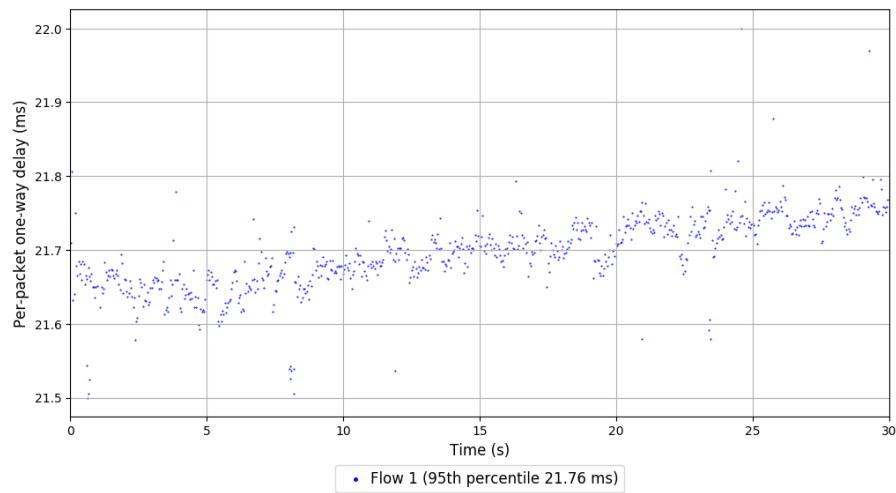
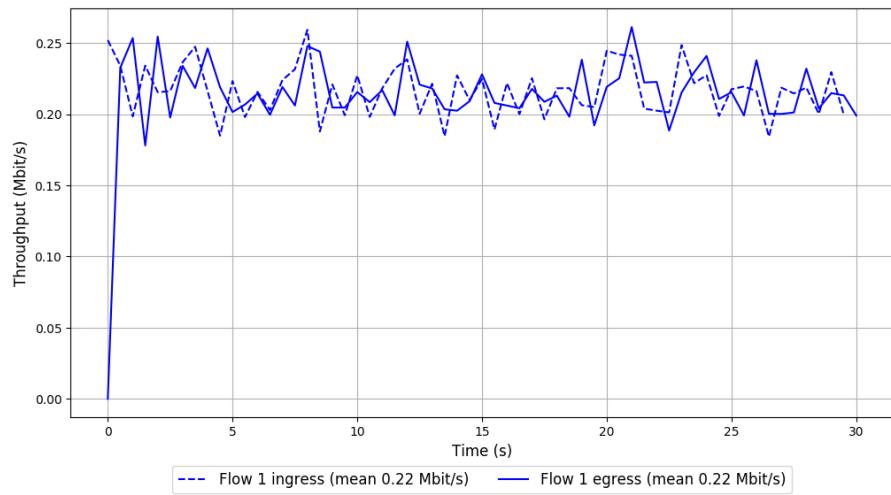


```
Run 1: Statistics of SCReAM

Start at: 2019-07-12 10:11:20
End at: 2019-07-12 10:11:50
Local clock offset: -3.919 ms
Remote clock offset: -2.199 ms

# Below is generated by plot.py at 2019-07-12 12:41:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.763 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.763 ms
Loss rate: 0.13%
```

Run 1: Report of SCReAM — Data Link

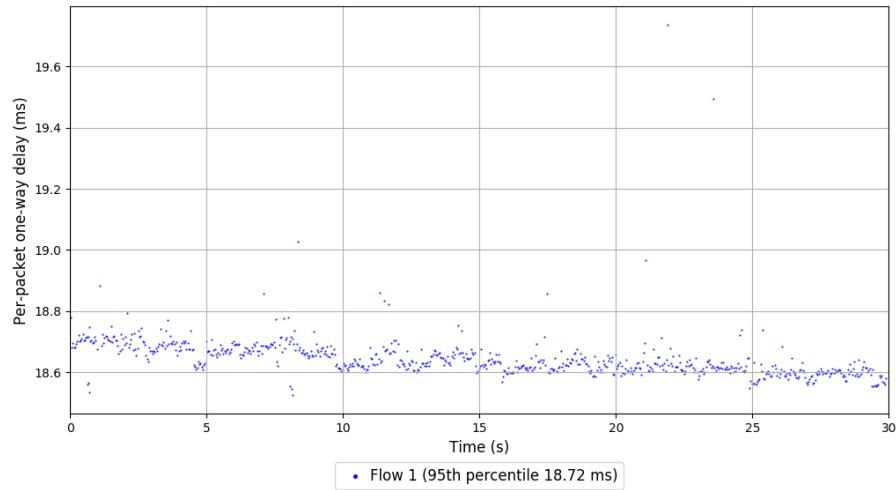
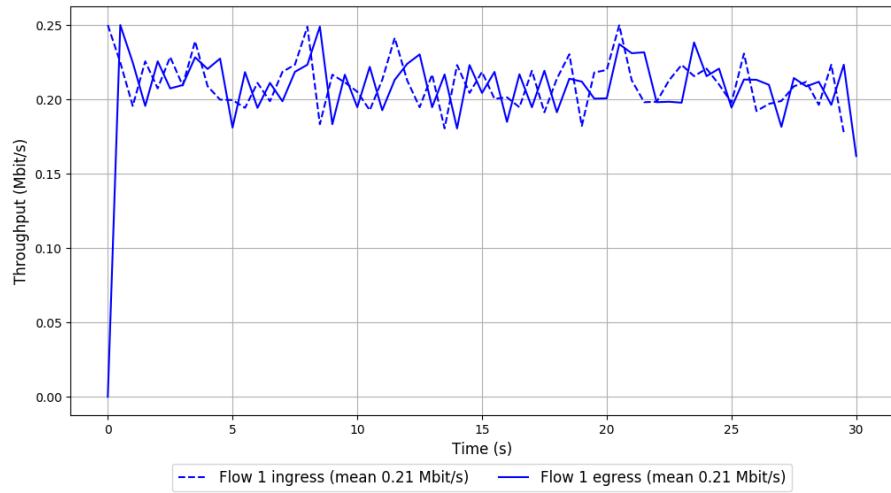


Run 2: Statistics of SCReAM

```
Start at: 2019-07-12 10:39:38
End at: 2019-07-12 10:40:08
Local clock offset: -1.627 ms
Remote clock offset: -0.554 ms

# Below is generated by plot.py at 2019-07-12 12:41:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 18.719 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 18.719 ms
Loss rate: 0.13%
```

Run 2: Report of SCReAM — Data Link

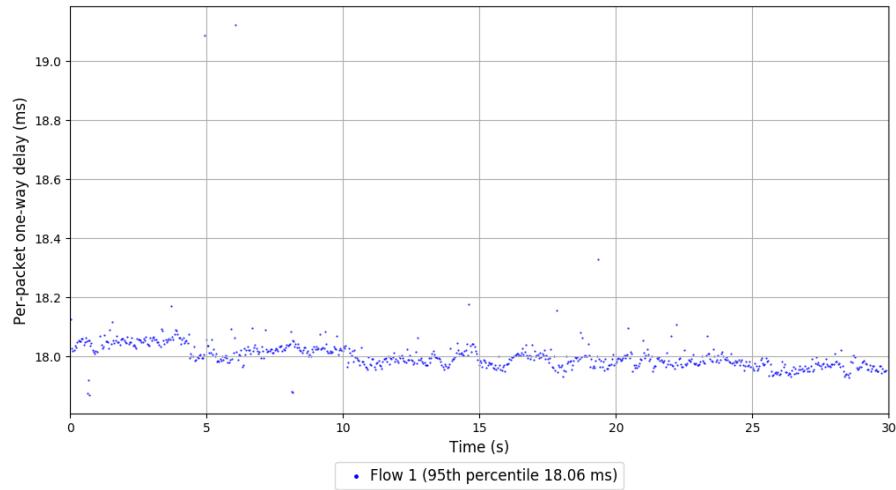
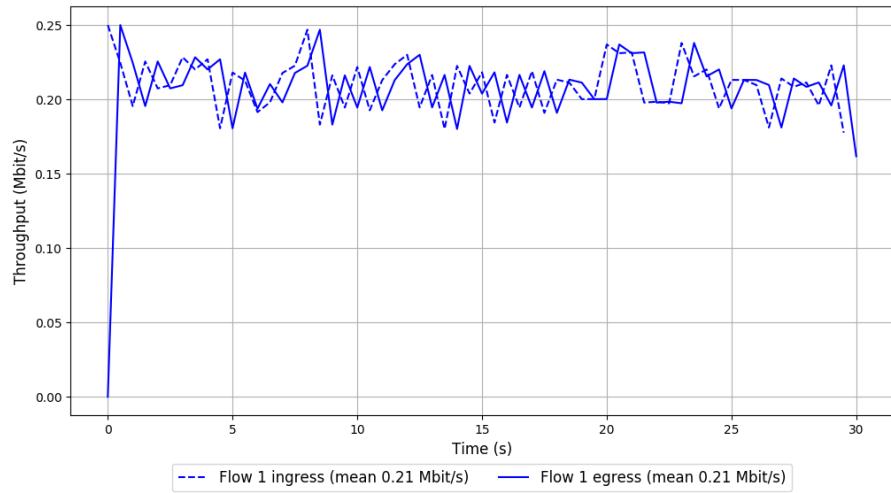


Run 3: Statistics of SCReAM

```
Start at: 2019-07-12 11:08:02
End at: 2019-07-12 11:08:32
Local clock offset: 2.218 ms
Remote clock offset: -0.805 ms

# Below is generated by plot.py at 2019-07-12 12:41:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 18.063 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 18.063 ms
Loss rate: 0.13%
```

Run 3: Report of SCReAM — Data Link

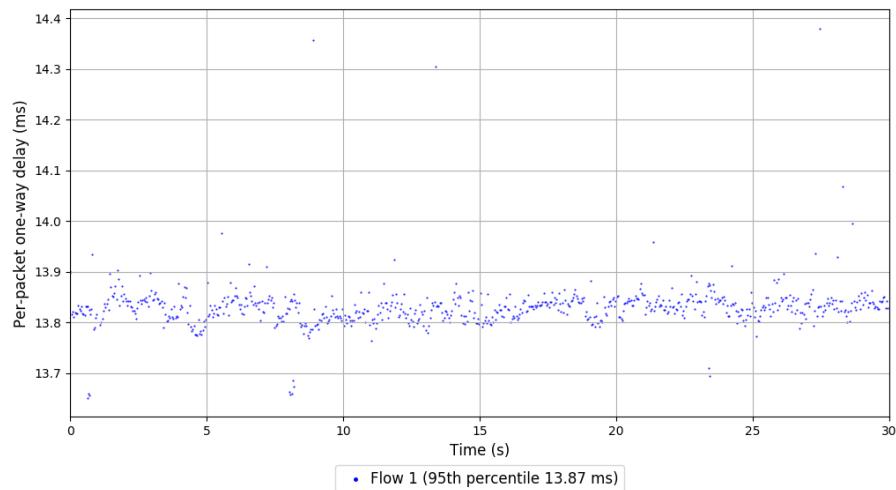
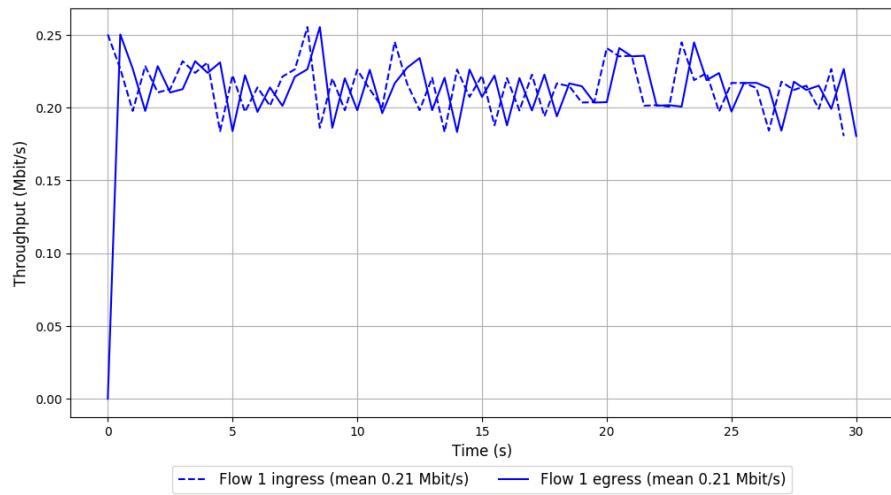


Run 4: Statistics of SCReAM

```
Start at: 2019-07-12 11:36:34
End at: 2019-07-12 11:37:04
Local clock offset: 3.526 ms
Remote clock offset: 2.422 ms

# Below is generated by plot.py at 2019-07-12 12:41:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.871 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.871 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

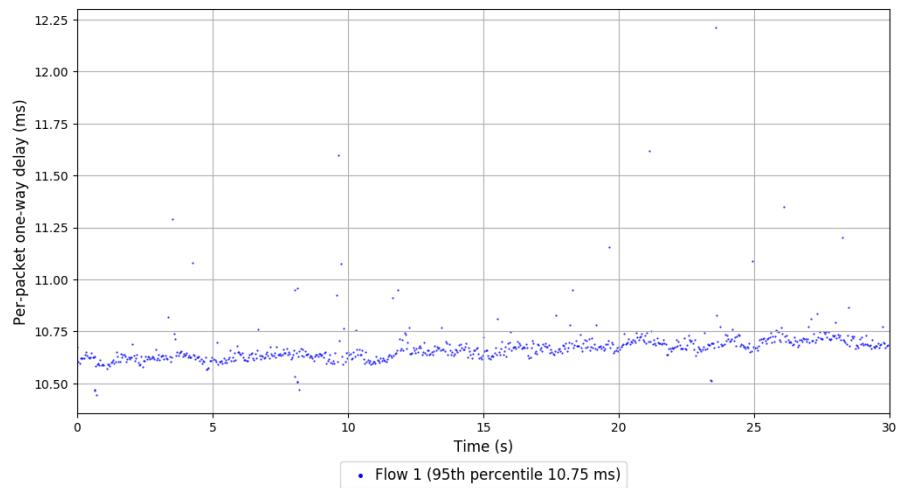
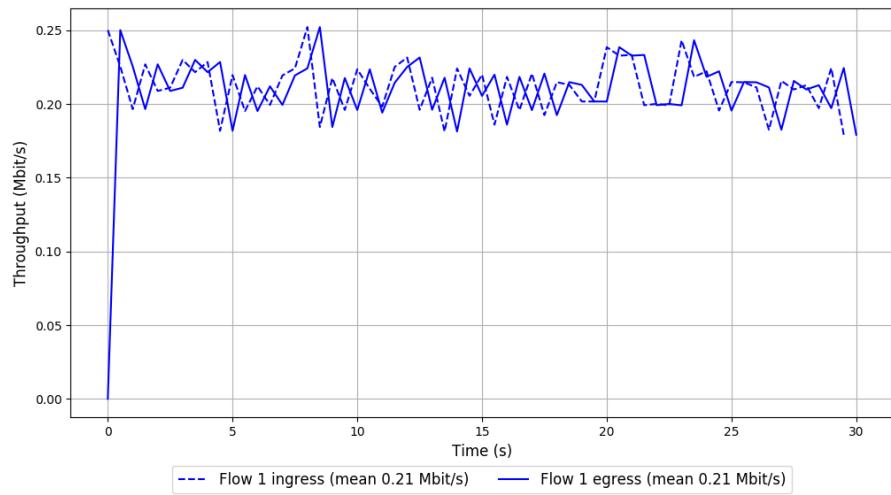


Run 5: Statistics of SCReAM

```
Start at: 2019-07-12 12:05:42
End at: 2019-07-12 12:06:13
Local clock offset: 1.411 ms
Remote clock offset: 5.732 ms

# Below is generated by plot.py at 2019-07-12 12:41:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 10.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 10.750 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

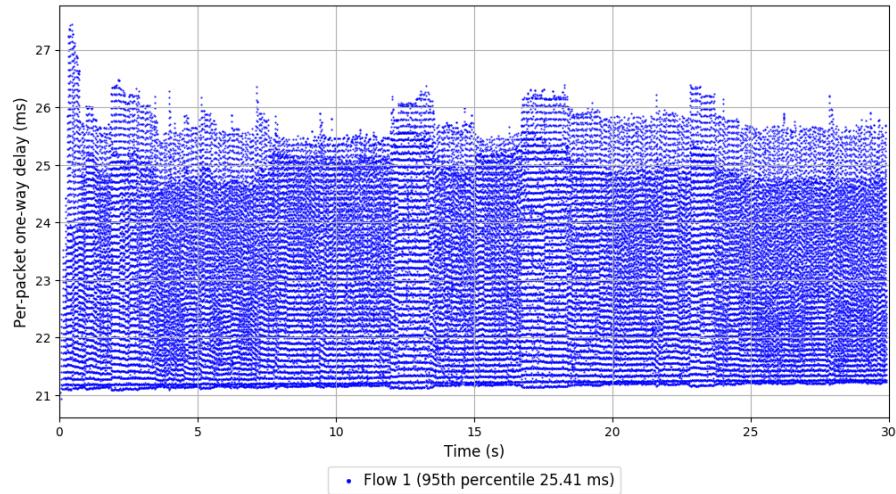
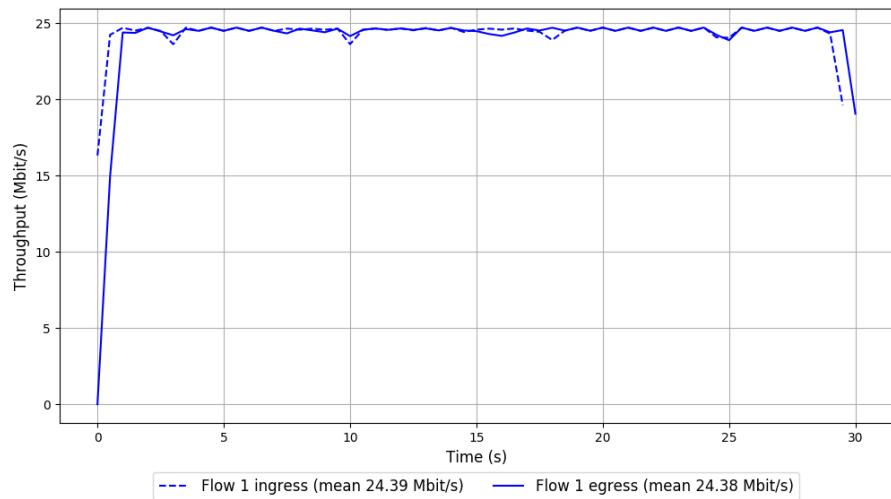


Run 1: Statistics of Sprout

```
Start at: 2019-07-12 10:27:52
End at: 2019-07-12 10:28:22
Local clock offset: -5.457 ms
Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2019-07-12 12:41:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 25.410 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 25.410 ms
Loss rate: 0.10%
```

Run 1: Report of Sprout — Data Link

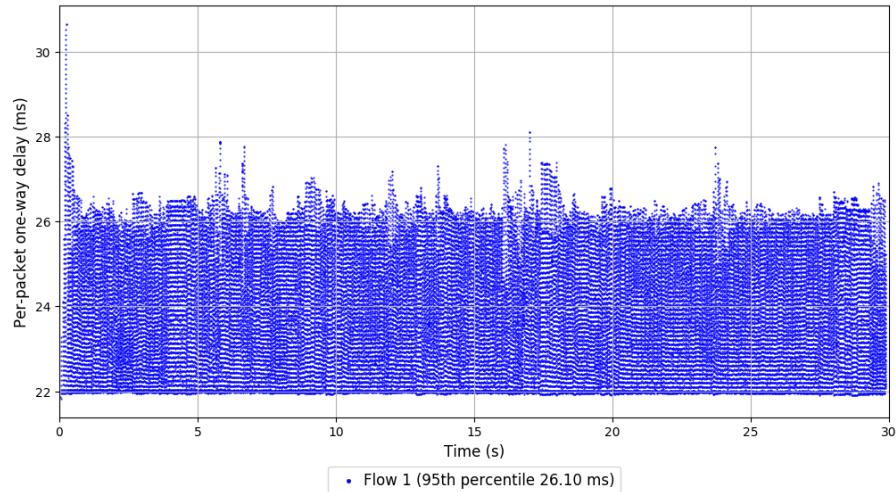
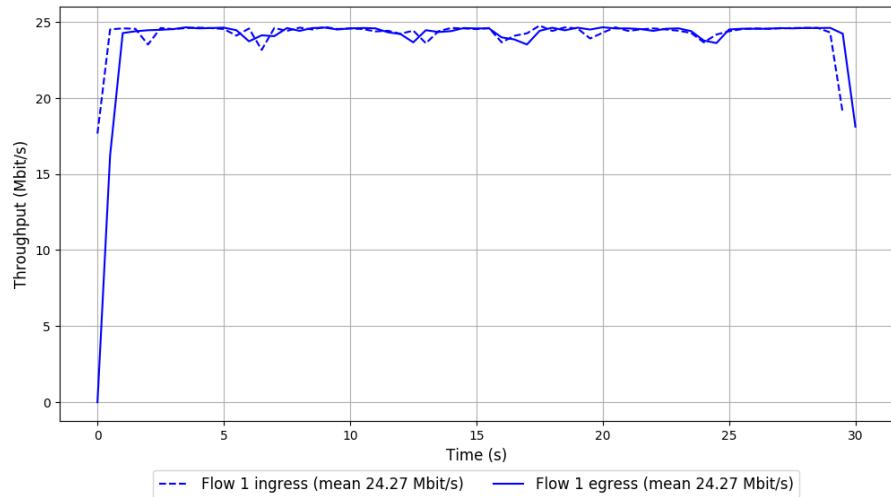


Run 2: Statistics of Sprout

```
Start at: 2019-07-12 10:56:06
End at: 2019-07-12 10:56:36
Local clock offset: -1.046 ms
Remote clock offset: -0.657 ms

# Below is generated by plot.py at 2019-07-12 12:41:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 26.096 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 26.096 ms
Loss rate: 0.14%
```

Run 2: Report of Sprout — Data Link

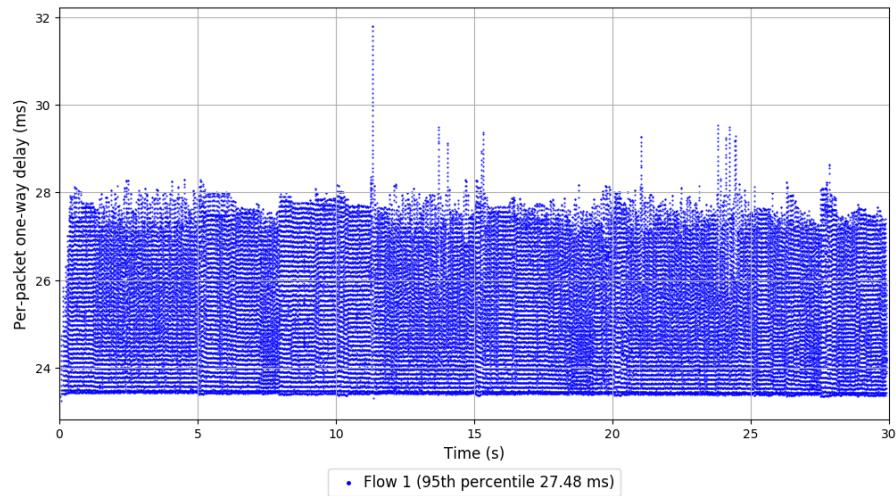
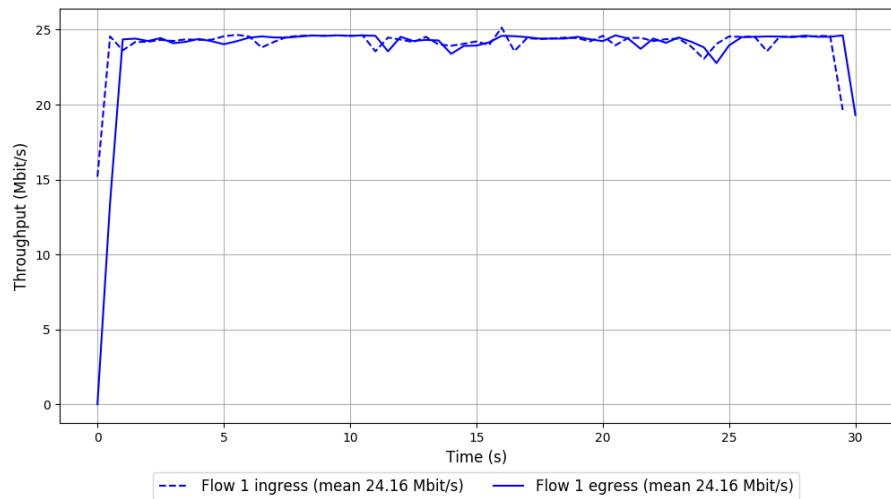


Run 3: Statistics of Sprout

```
Start at: 2019-07-12 11:24:42
End at: 2019-07-12 11:25:12
Local clock offset: 4.884 ms
Remote clock offset: -1.763 ms

# Below is generated by plot.py at 2019-07-12 12:41:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.16 Mbit/s
95th percentile per-packet one-way delay: 27.485 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 24.16 Mbit/s
95th percentile per-packet one-way delay: 27.485 ms
Loss rate: 0.09%
```

Run 3: Report of Sprout — Data Link

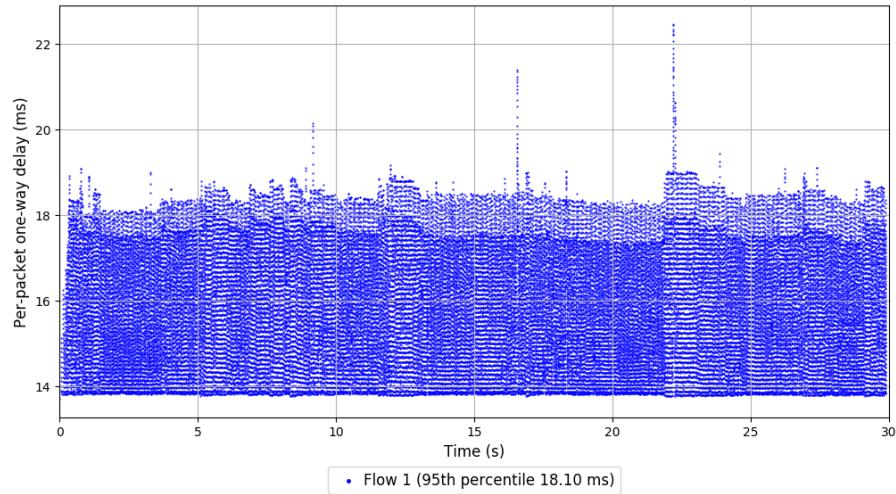
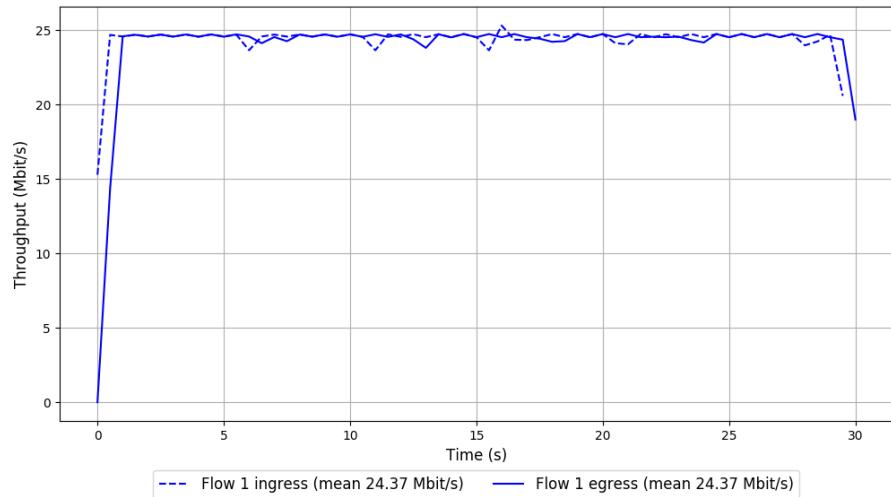


Run 4: Statistics of Sprout

```
Start at: 2019-07-12 11:53:29
End at: 2019-07-12 11:53:59
Local clock offset: 3.513 ms
Remote clock offset: 2.078 ms

# Below is generated by plot.py at 2019-07-12 12:41:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 18.103 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 18.103 ms
Loss rate: 0.14%
```

Run 4: Report of Sprout — Data Link

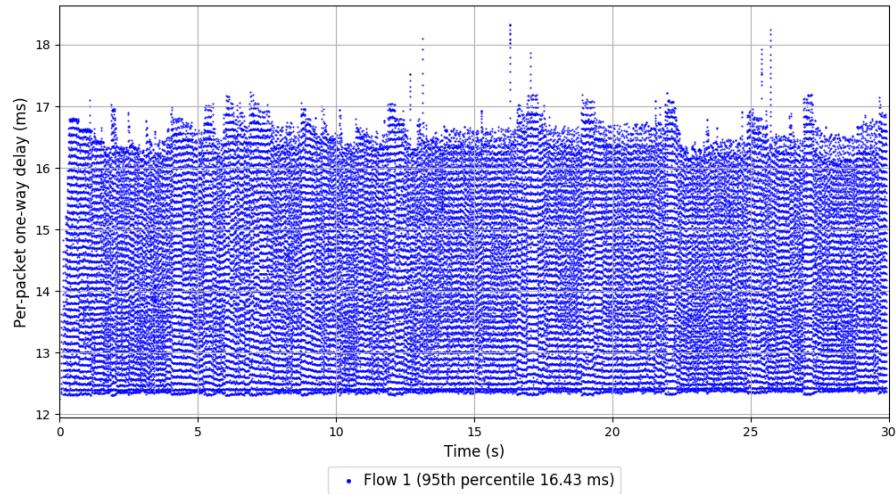
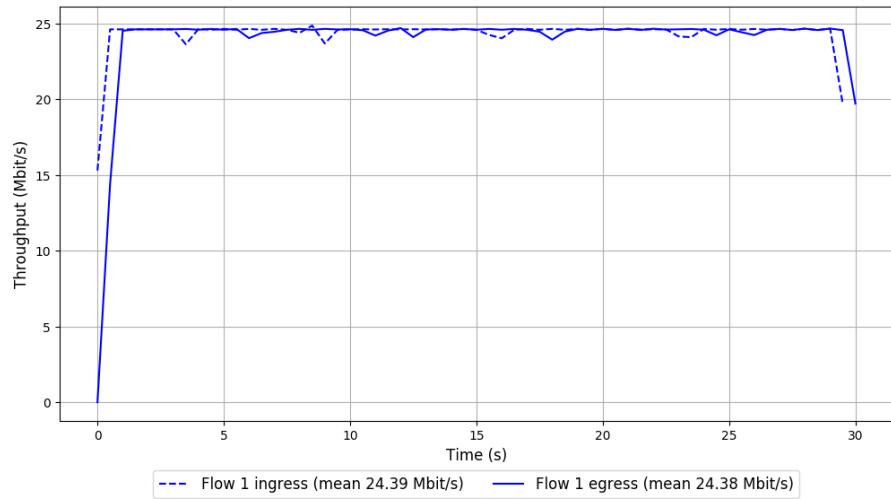


Run 5: Statistics of Sprout

```
Start at: 2019-07-12 12:22:19
End at: 2019-07-12 12:22:49
Local clock offset: -2.334 ms
Remote clock offset: 2.597 ms

# Below is generated by plot.py at 2019-07-12 12:41:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 16.425 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 16.425 ms
Loss rate: 0.07%
```

Run 5: Report of Sprout — Data Link

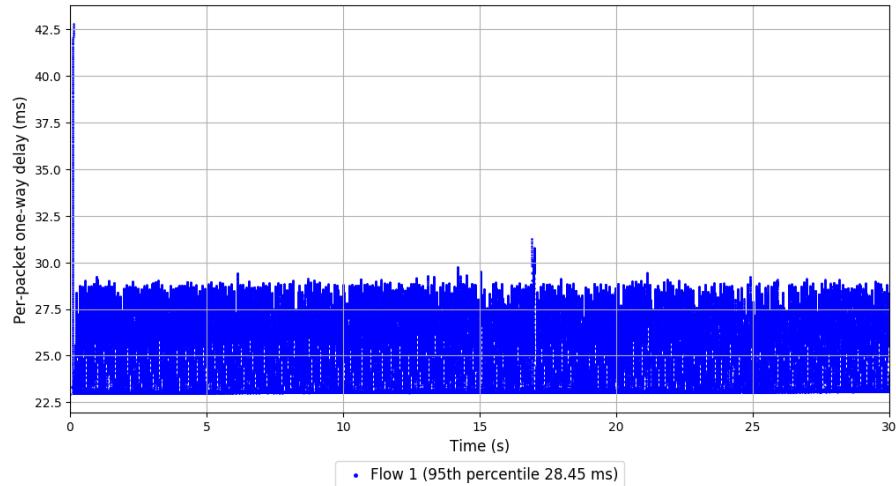
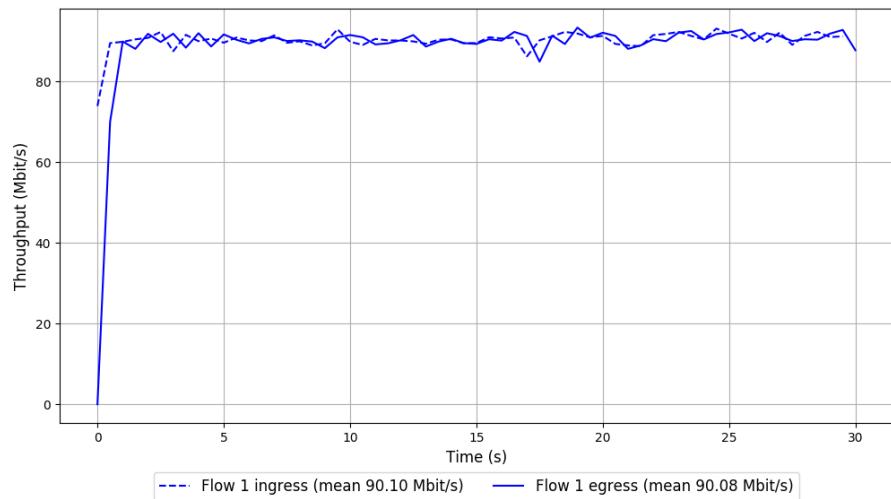


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-07-12 10:03:10
End at: 2019-07-12 10:03:40
Local clock offset: -2.878 ms
Remote clock offset: -2.861 ms

# Below is generated by plot.py at 2019-07-12 12:42:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.08 Mbit/s
95th percentile per-packet one-way delay: 28.445 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 90.08 Mbit/s
95th percentile per-packet one-way delay: 28.445 ms
Loss rate: 0.13%
```

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

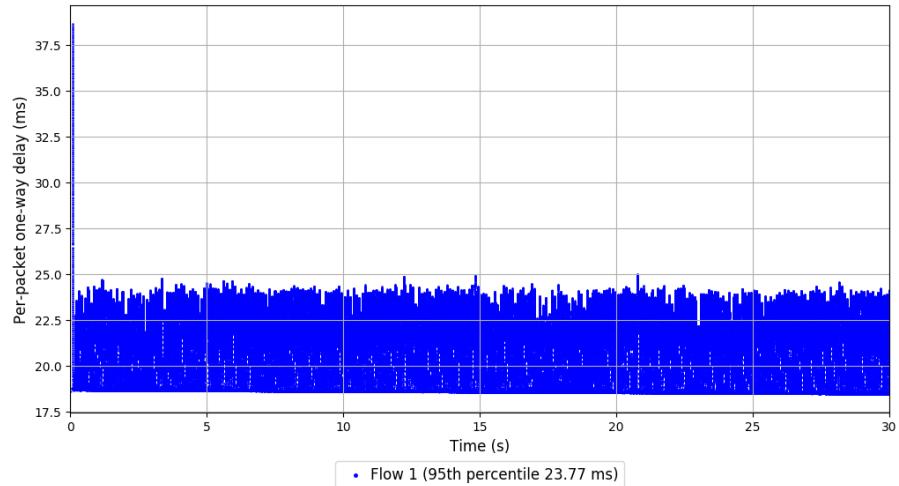
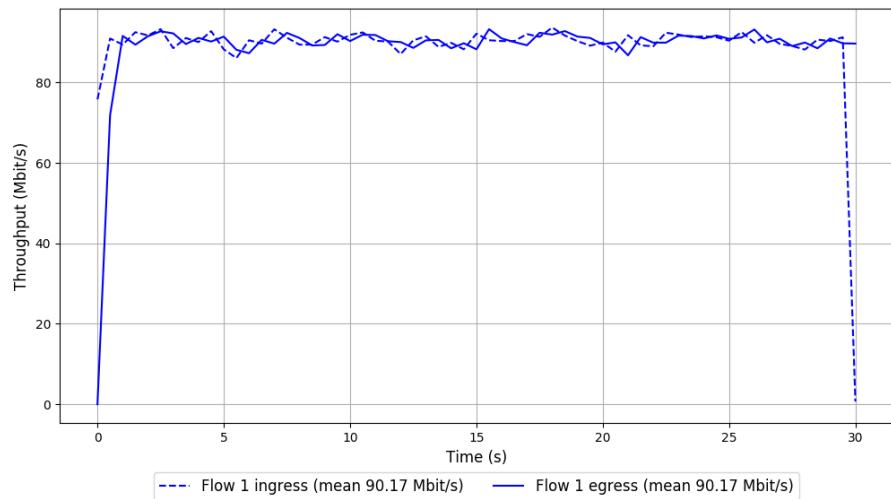


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-07-12 10:31:22
End at: 2019-07-12 10:31:52
Local clock offset: -4.982 ms
Remote clock offset: 1.737 ms

# Below is generated by plot.py at 2019-07-12 12:42:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.17 Mbit/s
95th percentile per-packet one-way delay: 23.770 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 90.17 Mbit/s
95th percentile per-packet one-way delay: 23.770 ms
Loss rate: 0.11%
```

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

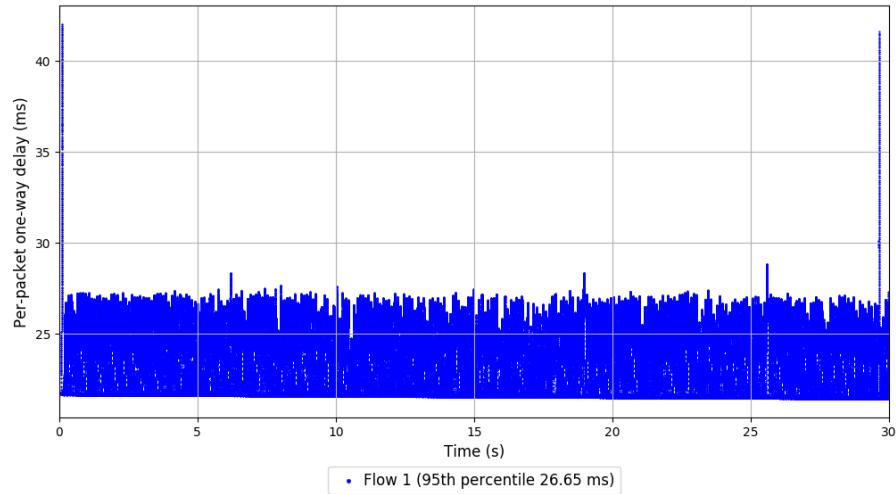
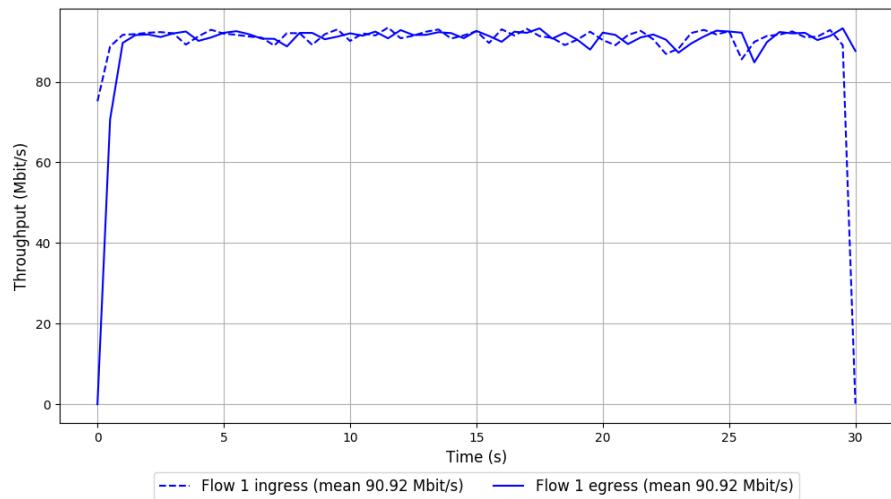


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-07-12 10:59:34
End at: 2019-07-12 11:00:04
Local clock offset: 0.029 ms
Remote clock offset: -1.185 ms

# Below is generated by plot.py at 2019-07-12 12:42:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.92 Mbit/s
95th percentile per-packet one-way delay: 26.648 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 90.92 Mbit/s
95th percentile per-packet one-way delay: 26.648 ms
Loss rate: 0.11%
```

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

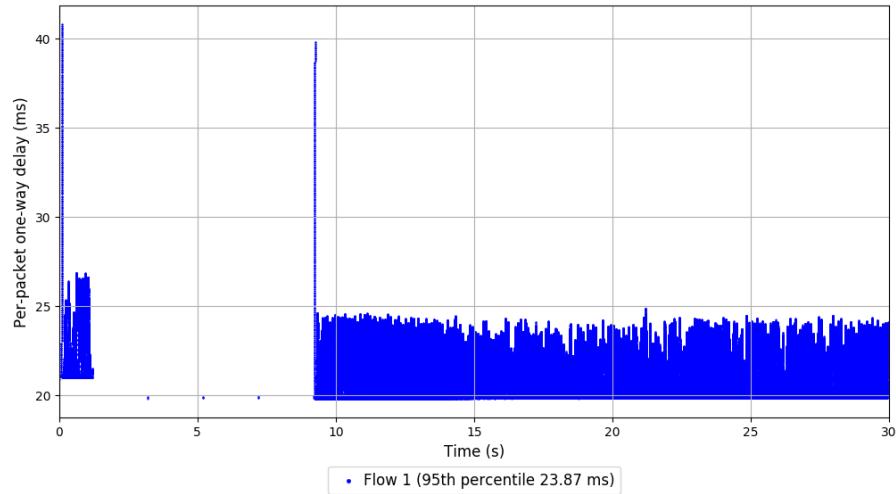
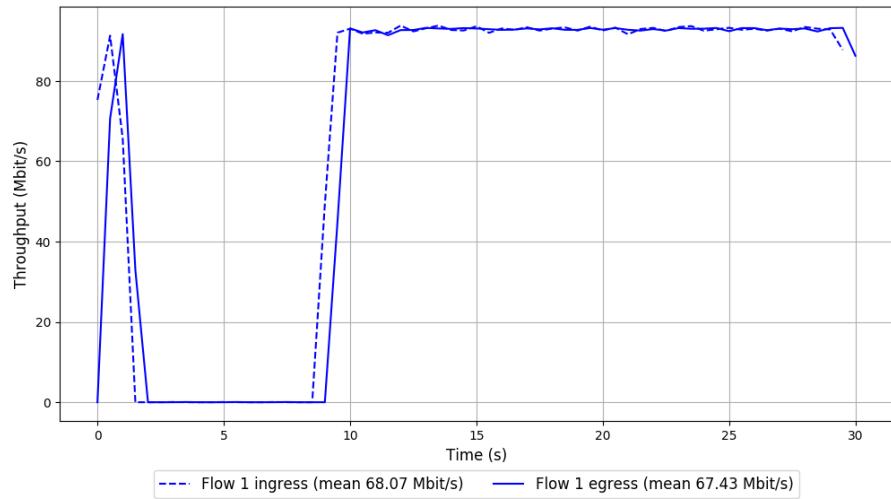


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-07-12 11:28:23
End at: 2019-07-12 11:28:53
Local clock offset: 5.275 ms
Remote clock offset: 0.587 ms

# Below is generated by plot.py at 2019-07-12 12:42:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.43 Mbit/s
95th percentile per-packet one-way delay: 23.869 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 67.43 Mbit/s
95th percentile per-packet one-way delay: 23.869 ms
Loss rate: 1.04%
```

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

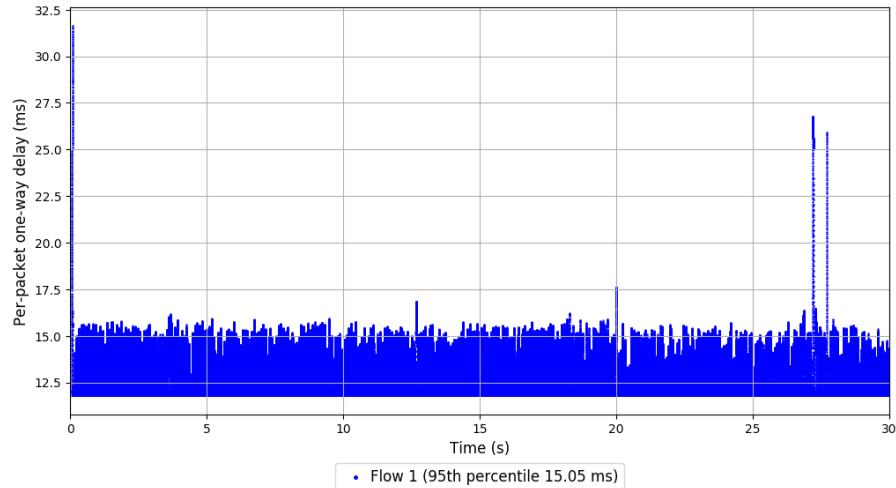
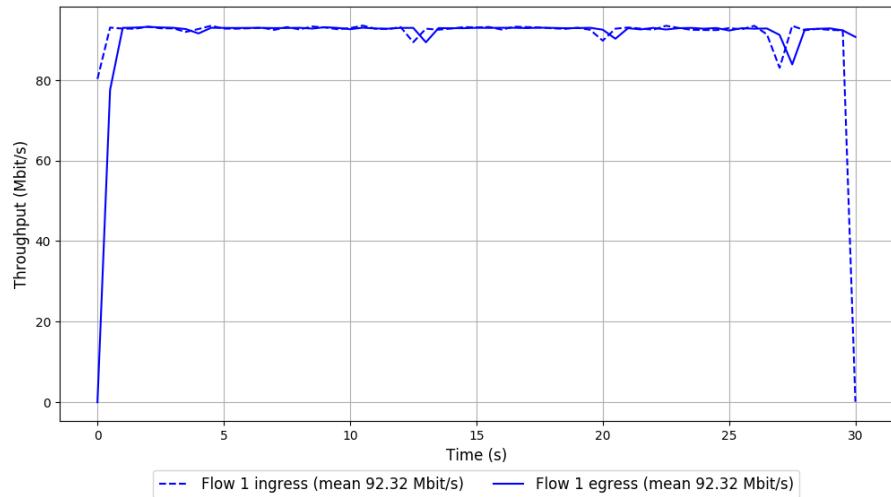


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-07-12 11:57:02
End at: 2019-07-12 11:57:32
Local clock offset: 3.456 ms
Remote clock offset: 4.285 ms

# Below is generated by plot.py at 2019-07-12 12:43:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.32 Mbit/s
95th percentile per-packet one-way delay: 15.055 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 92.32 Mbit/s
95th percentile per-packet one-way delay: 15.055 ms
Loss rate: 0.08%
```

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

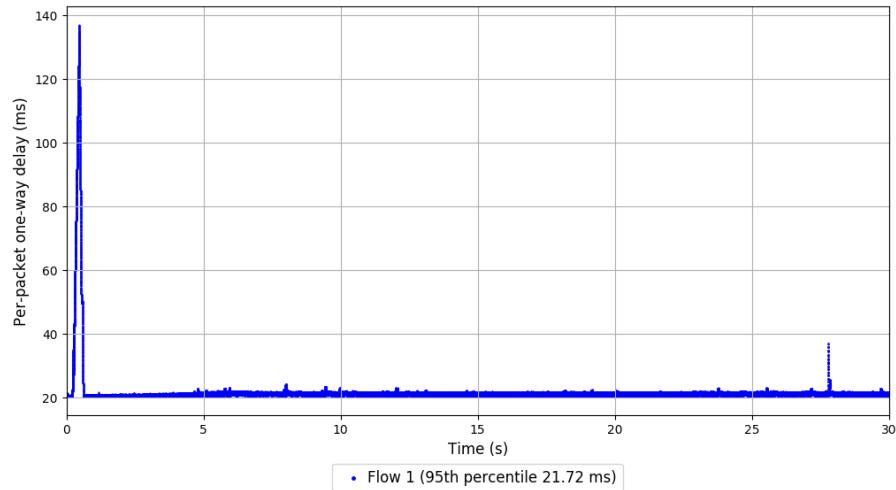
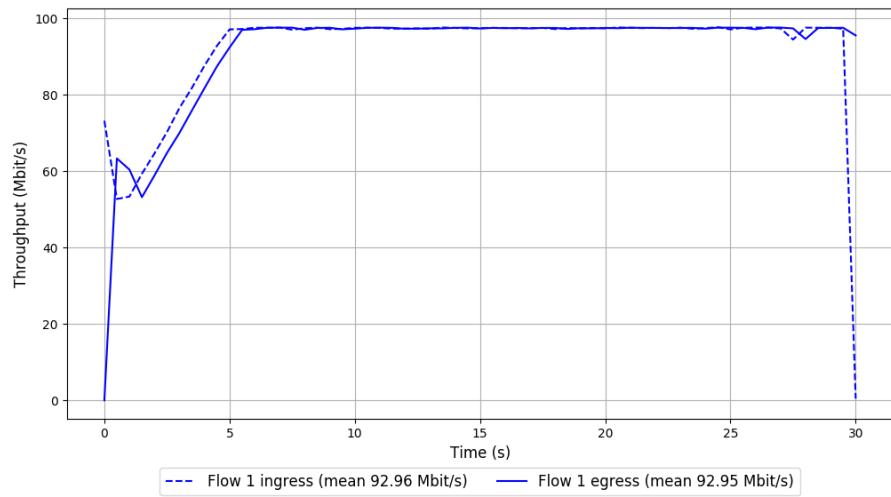


Run 1: Statistics of TCP Vegas

```
Start at: 2019-07-12 10:10:10
End at: 2019-07-12 10:10:40
Local clock offset: -3.759 ms
Remote clock offset: 0.133 ms

# Below is generated by plot.py at 2019-07-12 12:43:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 21.717 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 21.717 ms
Loss rate: 0.12%
```

Run 1: Report of TCP Vegas — Data Link

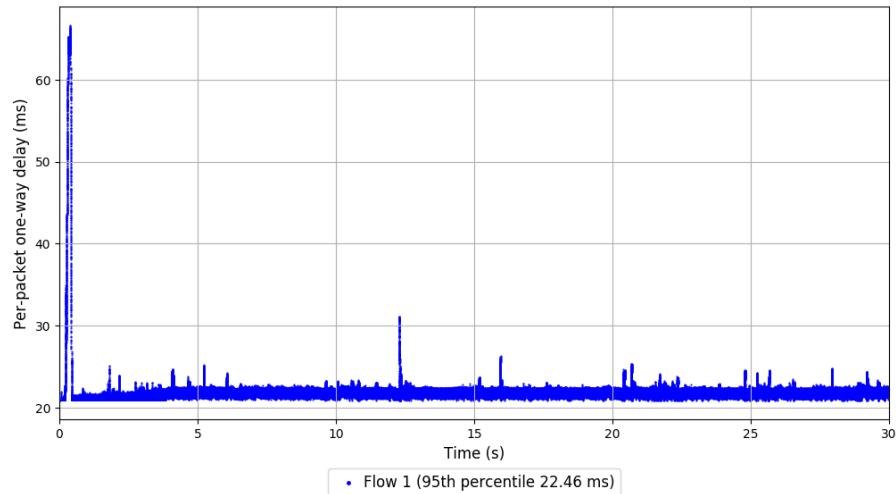
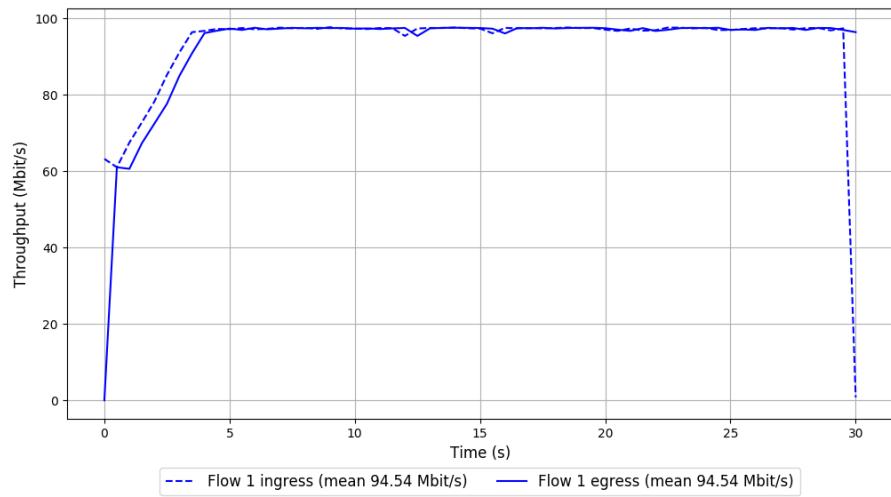


Run 2: Statistics of TCP Vegas

```
Start at: 2019-07-12 10:38:27
End at: 2019-07-12 10:38:57
Local clock offset: -2.845 ms
Remote clock offset: -0.558 ms

# Below is generated by plot.py at 2019-07-12 12:43:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.54 Mbit/s
95th percentile per-packet one-way delay: 22.461 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 94.54 Mbit/s
95th percentile per-packet one-way delay: 22.461 ms
Loss rate: 0.11%
```

Run 2: Report of TCP Vegas — Data Link

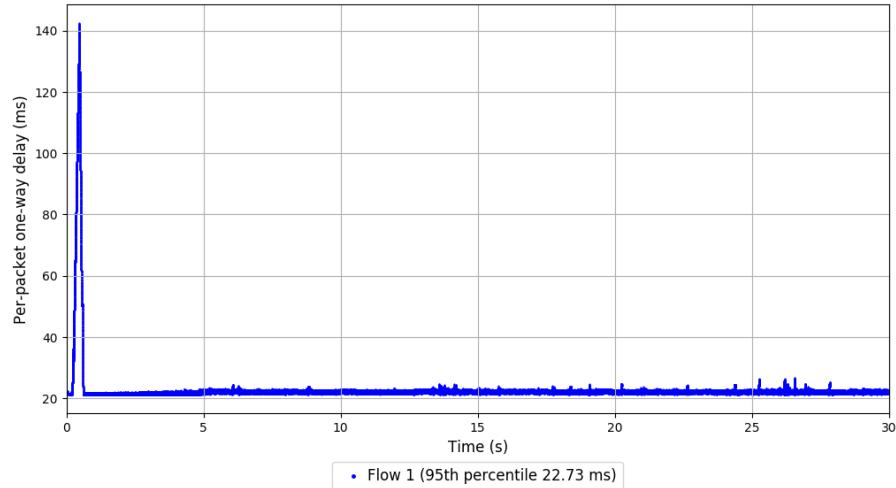
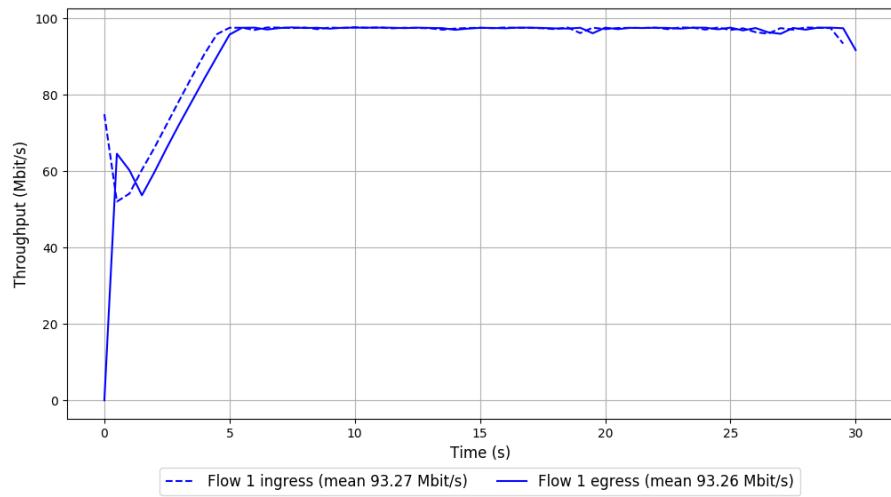


Run 3: Statistics of TCP Vegas

```
Start at: 2019-07-12 11:06:53
End at: 2019-07-12 11:07:23
Local clock offset: 2.629 ms
Remote clock offset: -0.601 ms

# Below is generated by plot.py at 2019-07-12 12:43:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 22.735 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 22.735 ms
Loss rate: 0.11%
```

Run 3: Report of TCP Vegas — Data Link

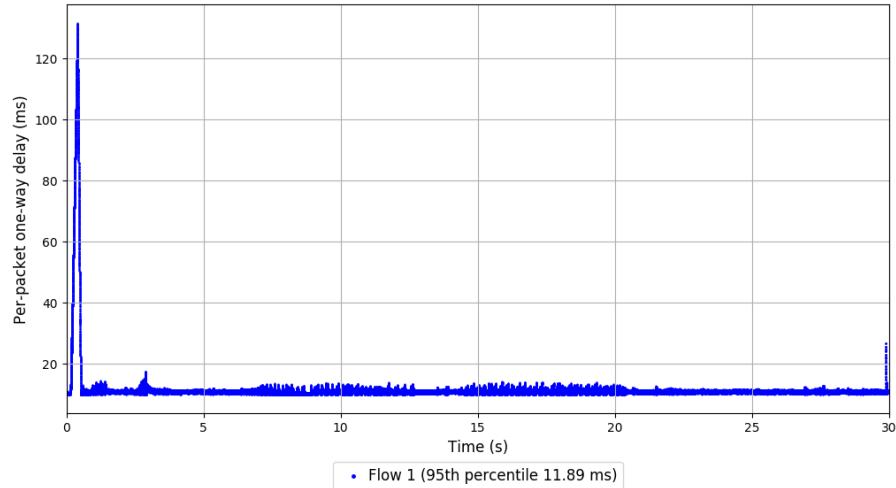
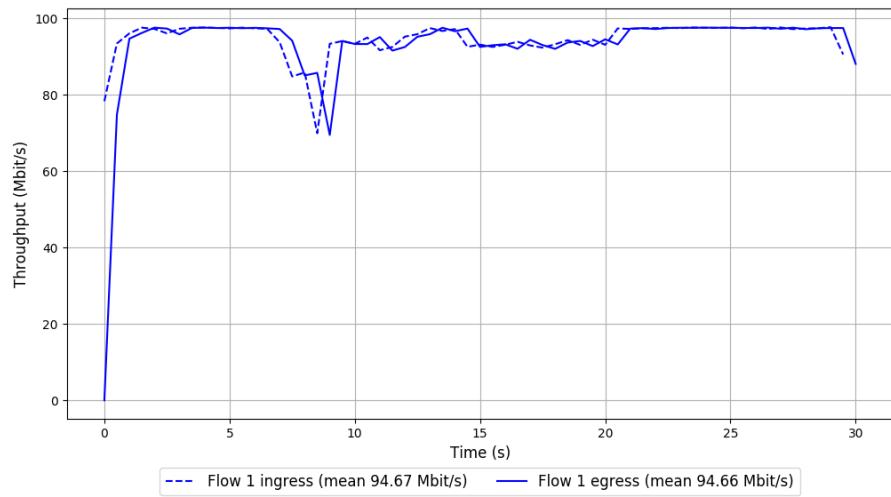


Run 4: Statistics of TCP Vegas

```
Start at: 2019-07-12 11:35:24
End at: 2019-07-12 11:35:54
Local clock offset: 2.954 ms
Remote clock offset: 5.718 ms

# Below is generated by plot.py at 2019-07-12 12:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 11.892 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 11.892 ms
Loss rate: 0.08%
```

Run 4: Report of TCP Vegas — Data Link

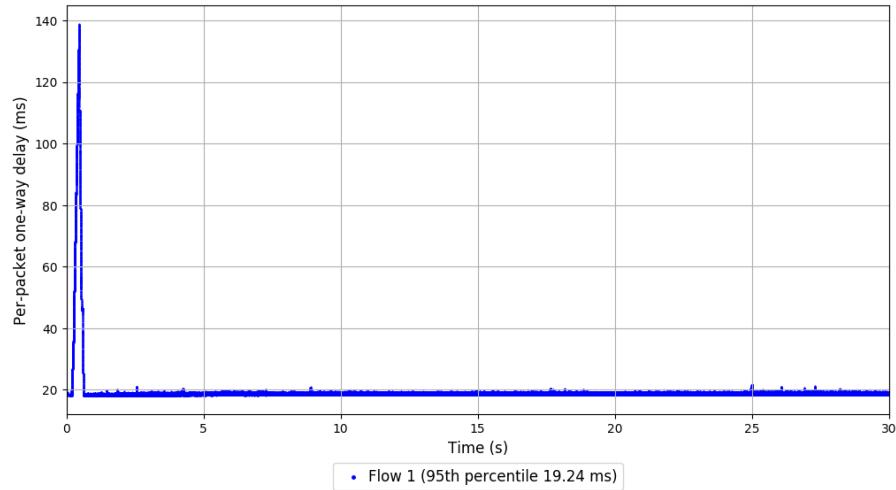
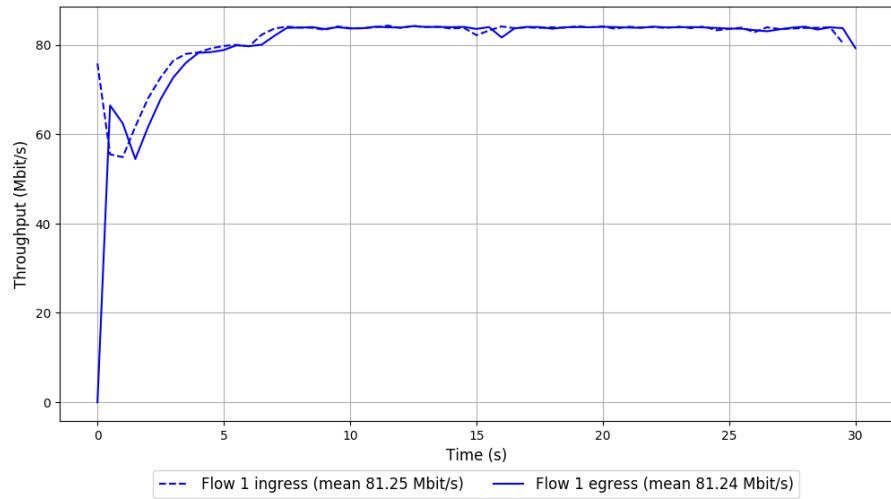


Run 5: Statistics of TCP Vegas

```
Start at: 2019-07-12 12:04:30
End at: 2019-07-12 12:05:00
Local clock offset: 1.321 ms
Remote clock offset: 0.915 ms

# Below is generated by plot.py at 2019-07-12 12:43:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.24 Mbit/s
95th percentile per-packet one-way delay: 19.238 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 81.24 Mbit/s
95th percentile per-packet one-way delay: 19.238 ms
Loss rate: 0.10%
```

Run 5: Report of TCP Vegas — Data Link

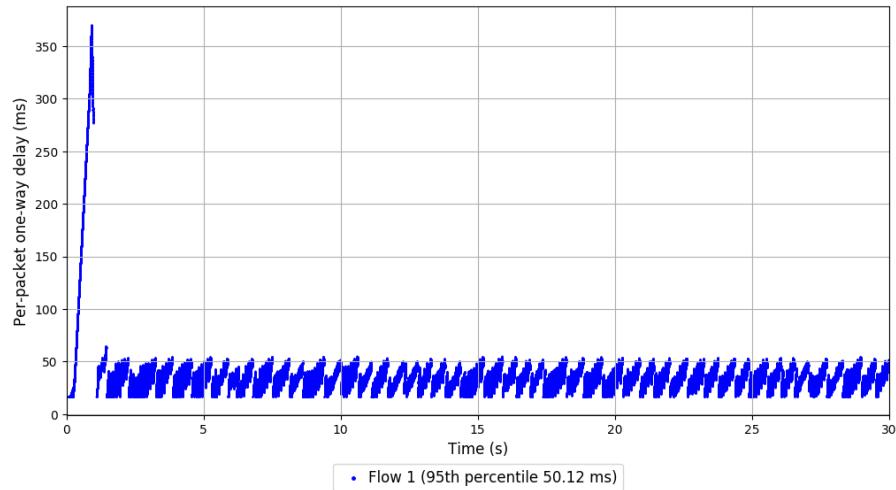
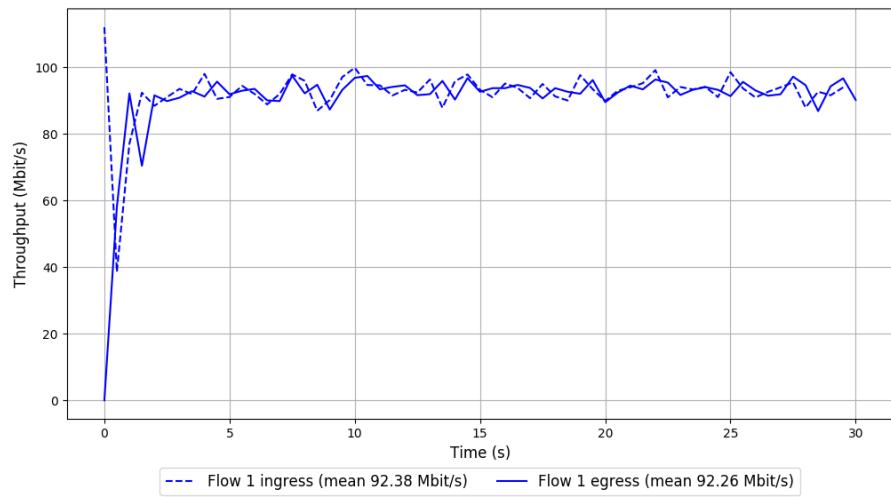


Run 1: Statistics of Verus

```
Start at: 2019-07-12 10:12:25
End at: 2019-07-12 10:12:55
Local clock offset: -4.459 ms
Remote clock offset: -0.666 ms

# Below is generated by plot.py at 2019-07-12 12:43:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.26 Mbit/s
95th percentile per-packet one-way delay: 50.119 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 92.26 Mbit/s
95th percentile per-packet one-way delay: 50.119 ms
Loss rate: 0.21%
```

Run 1: Report of Verus — Data Link

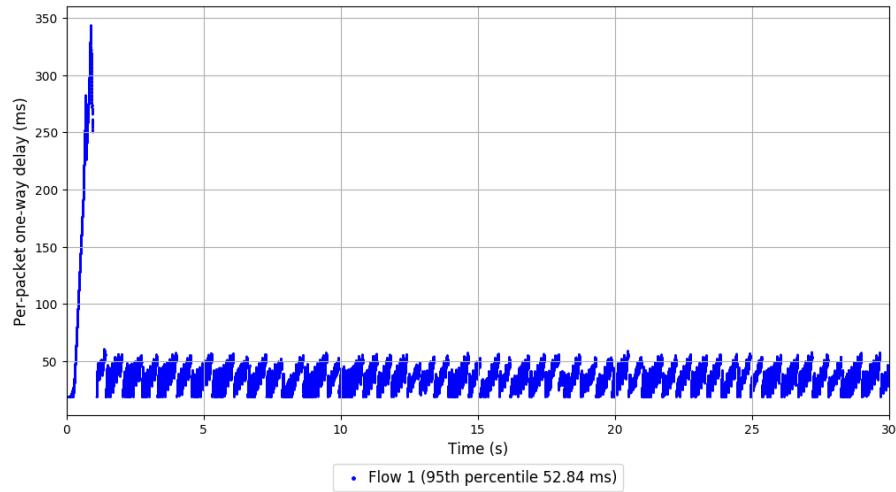
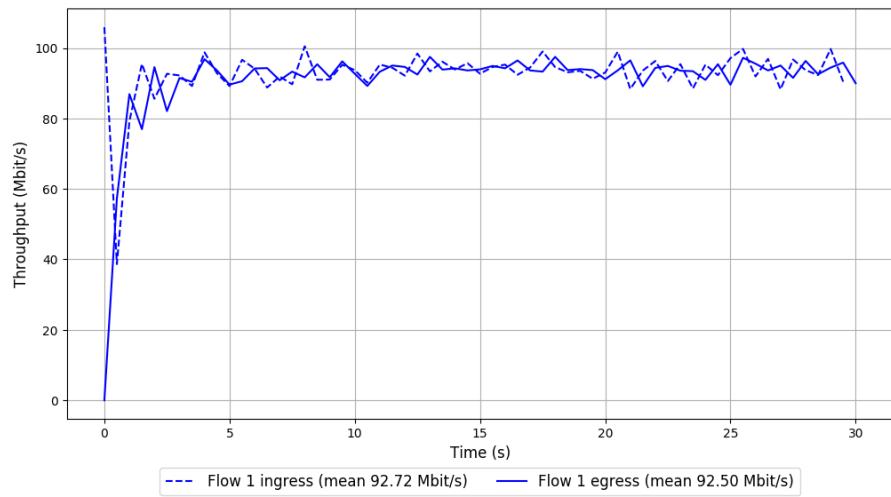


Run 2: Statistics of Verus

```
Start at: 2019-07-12 10:40:43
End at: 2019-07-12 10:41:13
Local clock offset: -1.196 ms
Remote clock offset: -0.844 ms

# Below is generated by plot.py at 2019-07-12 12:43:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.50 Mbit/s
95th percentile per-packet one-way delay: 52.836 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 92.50 Mbit/s
95th percentile per-packet one-way delay: 52.836 ms
Loss rate: 0.31%
```

Run 2: Report of Verus — Data Link

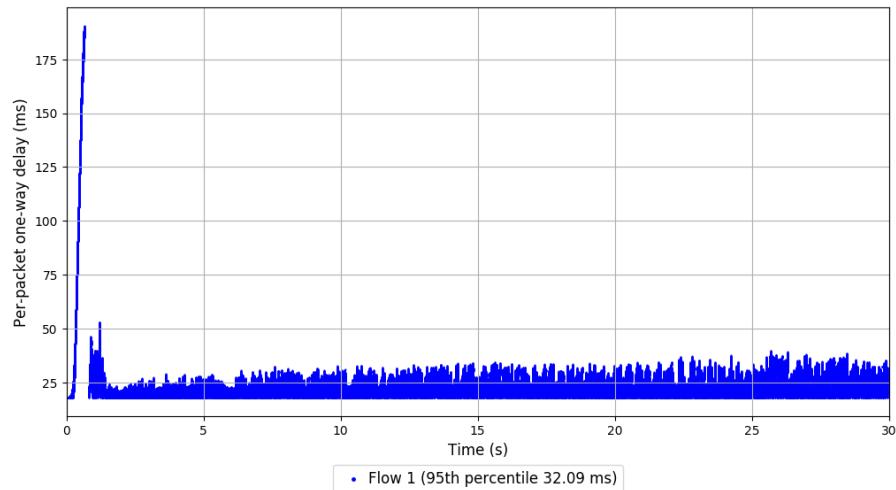
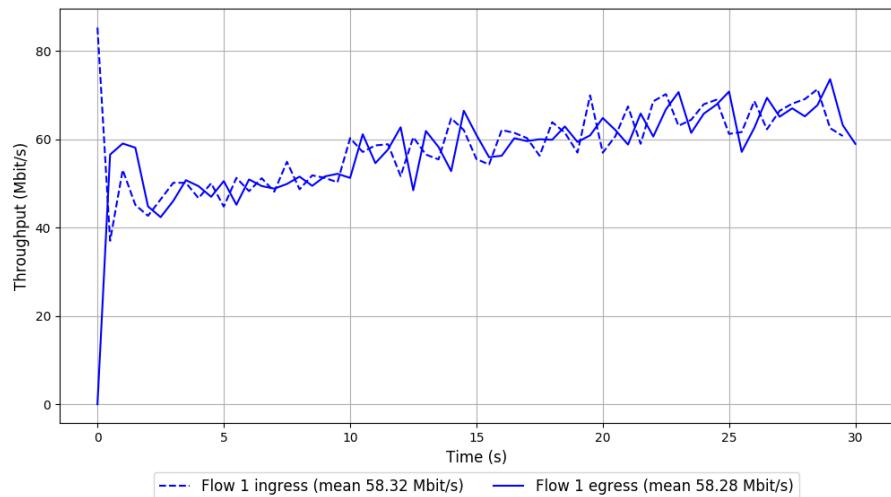


Run 3: Statistics of Verus

```
Start at: 2019-07-12 11:09:07
End at: 2019-07-12 11:09:37
Local clock offset: 3.015 ms
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2019-07-12 12:43:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.28 Mbit/s
95th percentile per-packet one-way delay: 32.087 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 58.28 Mbit/s
95th percentile per-packet one-way delay: 32.087 ms
Loss rate: 0.11%
```

Run 3: Report of Verus — Data Link

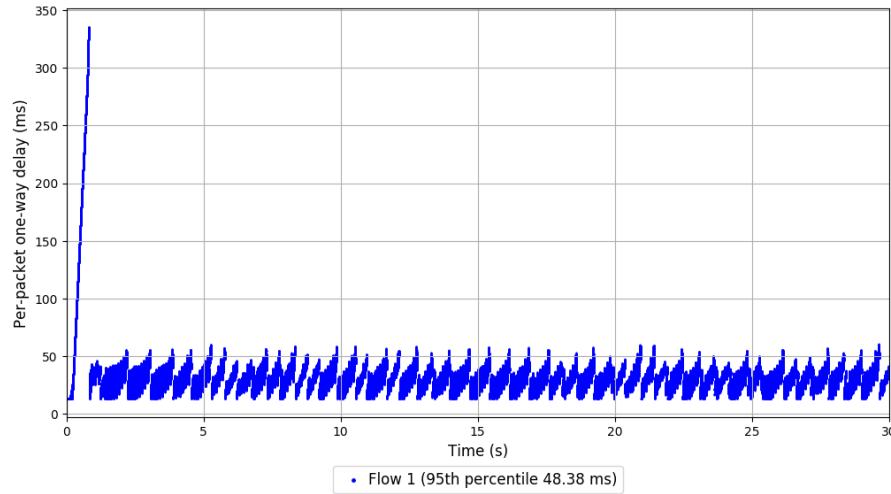
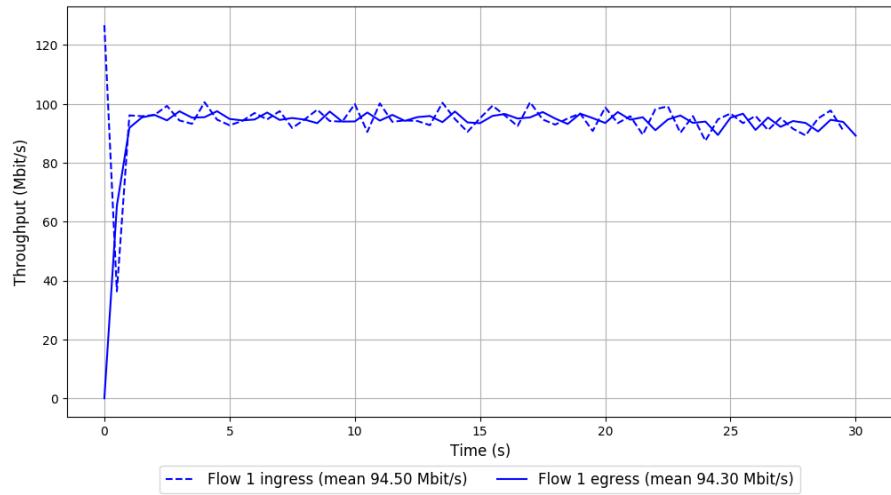


Run 4: Statistics of Verus

```
Start at: 2019-07-12 11:37:39
End at: 2019-07-12 11:38:09
Local clock offset: 3.513 ms
Remote clock offset: 3.132 ms

# Below is generated by plot.py at 2019-07-12 12:44:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 48.381 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 48.381 ms
Loss rate: 0.28%
```

Run 4: Report of Verus — Data Link

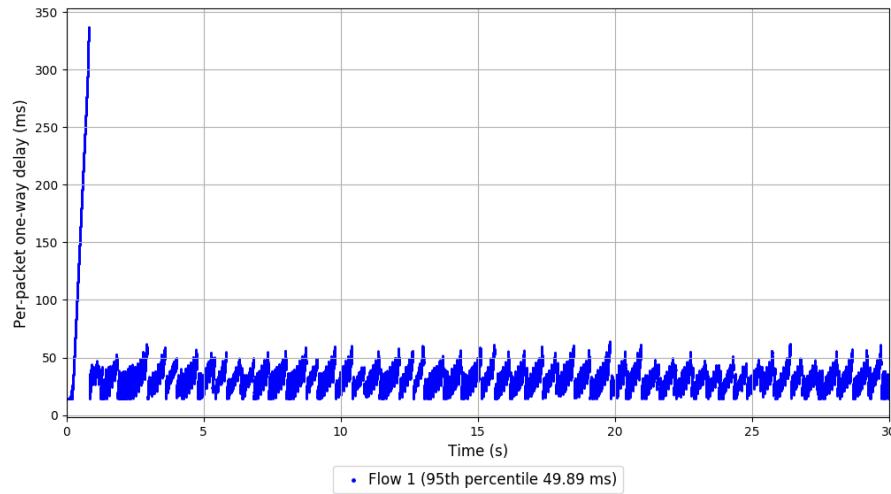
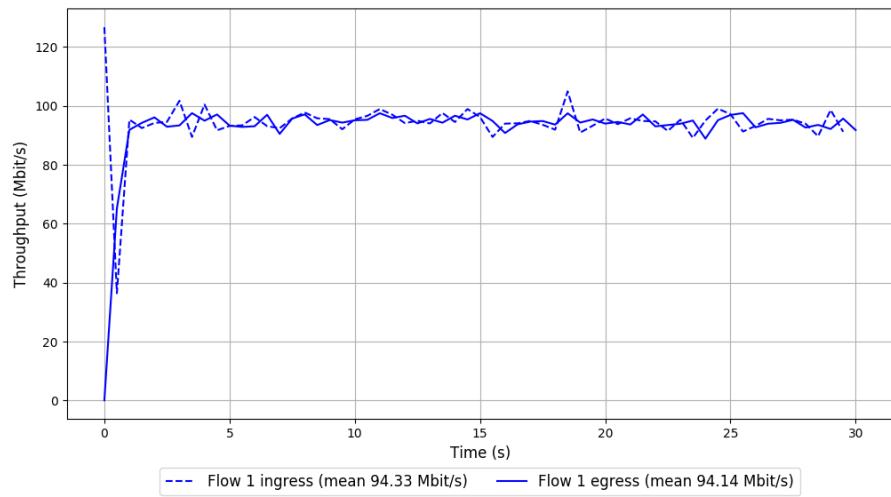


Run 5: Statistics of Verus

```
Start at: 2019-07-12 12:06:48
End at: 2019-07-12 12:07:18
Local clock offset: 0.213 ms
Remote clock offset: 1.157 ms

# Below is generated by plot.py at 2019-07-12 12:44:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 49.891 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 49.891 ms
Loss rate: 0.27%
```

Run 5: Report of Verus — Data Link

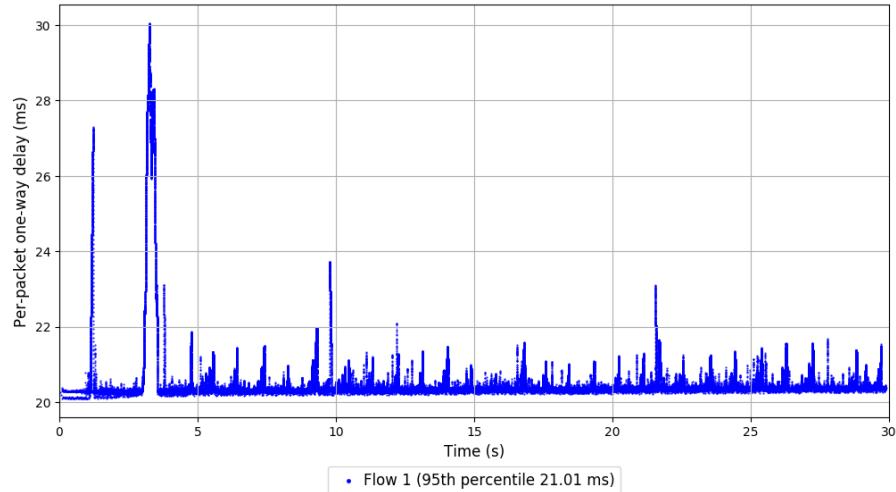
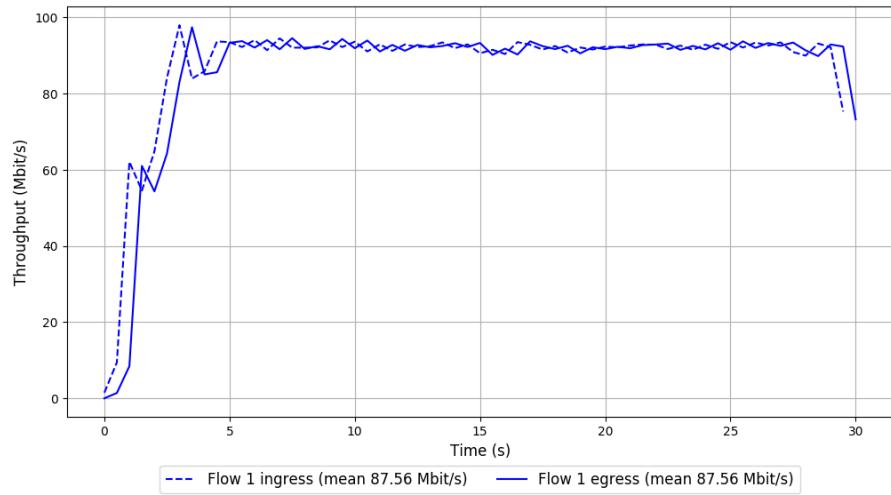


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-07-12 10:26:40
End at: 2019-07-12 10:27:10
Local clock offset: -5.331 ms
Remote clock offset: 2.171 ms

# Below is generated by plot.py at 2019-07-12 12:44:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.56 Mbit/s
95th percentile per-packet one-way delay: 21.013 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 87.56 Mbit/s
95th percentile per-packet one-way delay: 21.013 ms
Loss rate: 0.11%
```

Run 1: Report of PCC-Vivace — Data Link

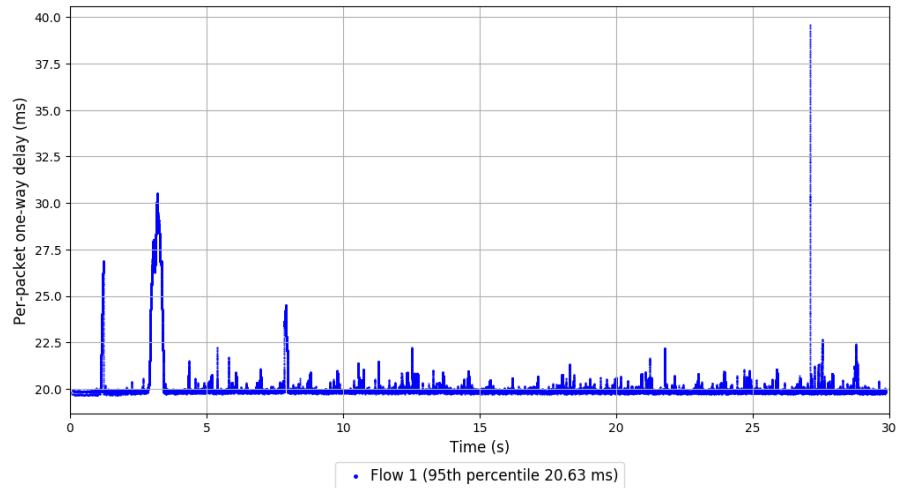
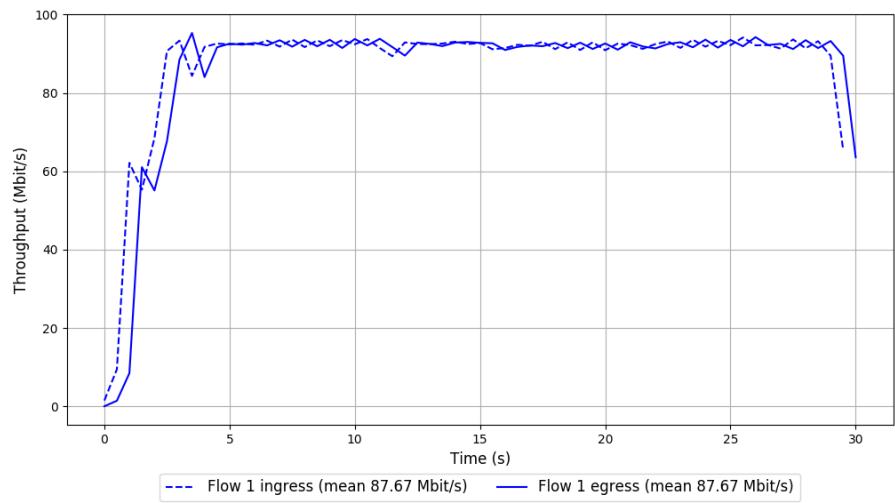


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-07-12 10:54:55
End at: 2019-07-12 10:55:25
Local clock offset: -0.848 ms
Remote clock offset: 1.703 ms

# Below is generated by plot.py at 2019-07-12 12:44:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 20.626 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 20.626 ms
Loss rate: 0.11%
```

Run 2: Report of PCC-Vivace — Data Link

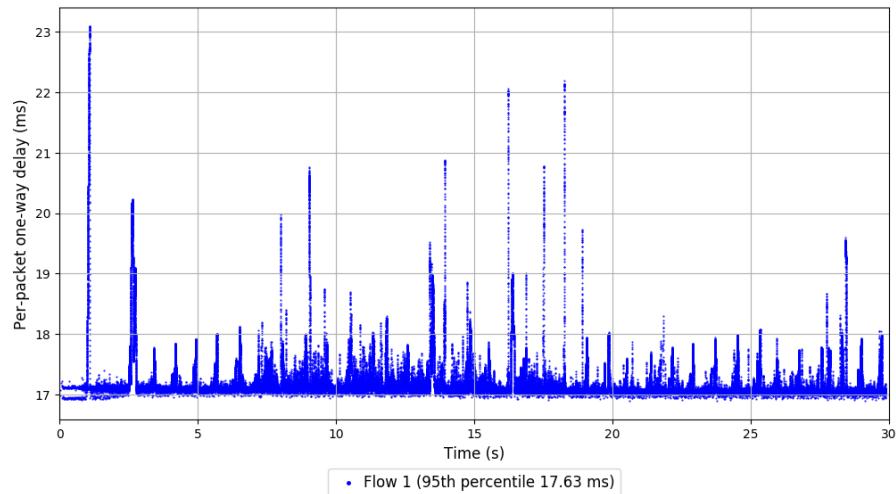
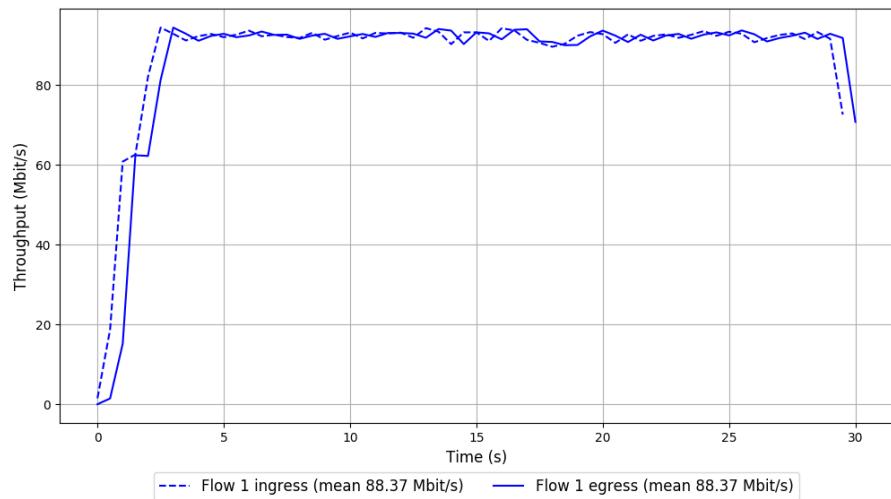


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-07-12 11:23:31
End at: 2019-07-12 11:24:01
Local clock offset: 3.968 ms
Remote clock offset: -0.734 ms

# Below is generated by plot.py at 2019-07-12 12:44:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 17.629 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 17.629 ms
Loss rate: 0.10%
```

Run 3: Report of PCC-Vivace — Data Link

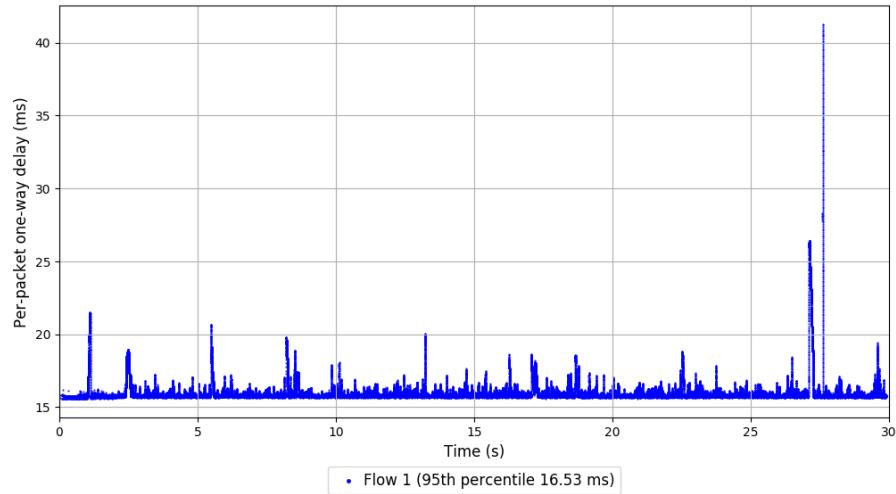
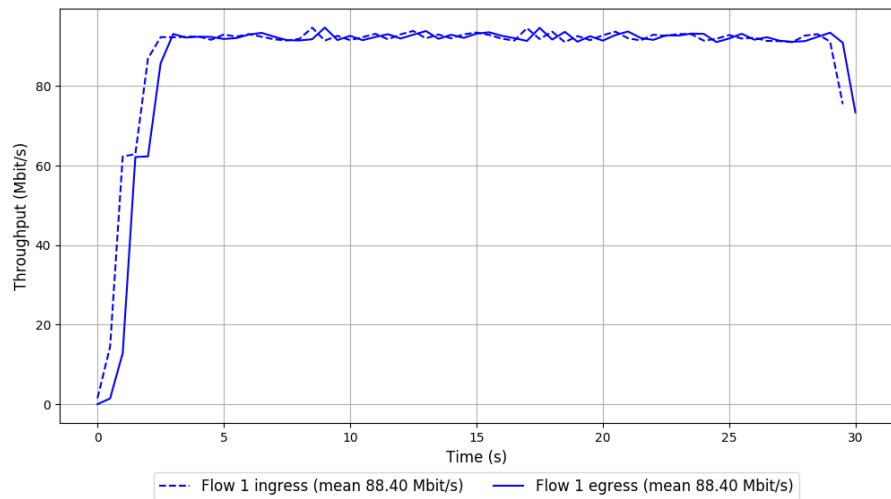


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-07-12 11:52:15
End at: 2019-07-12 11:52:45
Local clock offset: 3.148 ms
Remote clock offset: 3.049 ms

# Below is generated by plot.py at 2019-07-12 12:44:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.40 Mbit/s
95th percentile per-packet one-way delay: 16.534 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 88.40 Mbit/s
95th percentile per-packet one-way delay: 16.534 ms
Loss rate: 0.09%
```

Run 4: Report of PCC-Vivace — Data Link

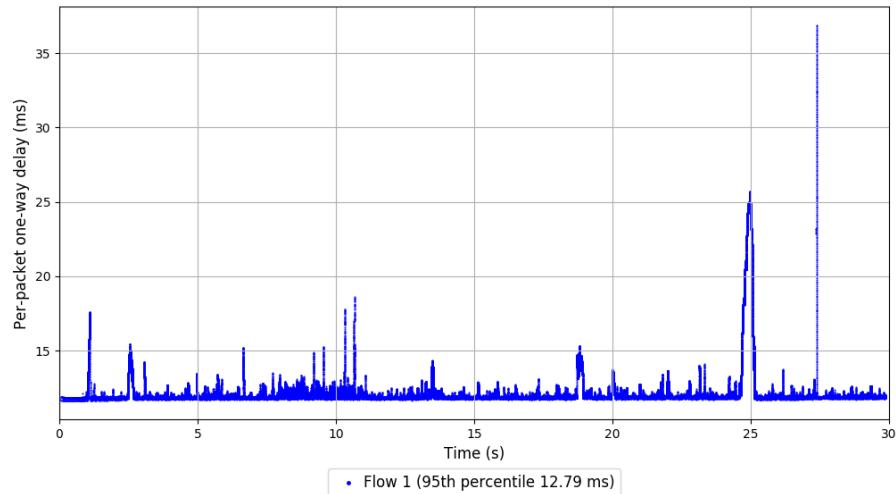
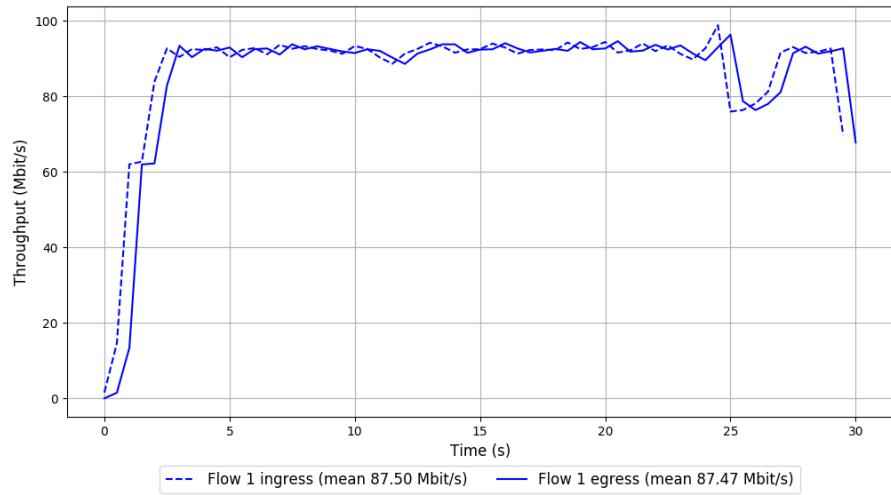


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-07-12 12:21:06
End at: 2019-07-12 12:21:36
Local clock offset: -2.085 ms
Remote clock offset: 3.258 ms

# Below is generated by plot.py at 2019-07-12 12:44:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.47 Mbit/s
95th percentile per-packet one-way delay: 12.785 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 87.47 Mbit/s
95th percentile per-packet one-way delay: 12.785 ms
Loss rate: 0.11%
```

Run 5: Report of PCC-Vivace — Data Link

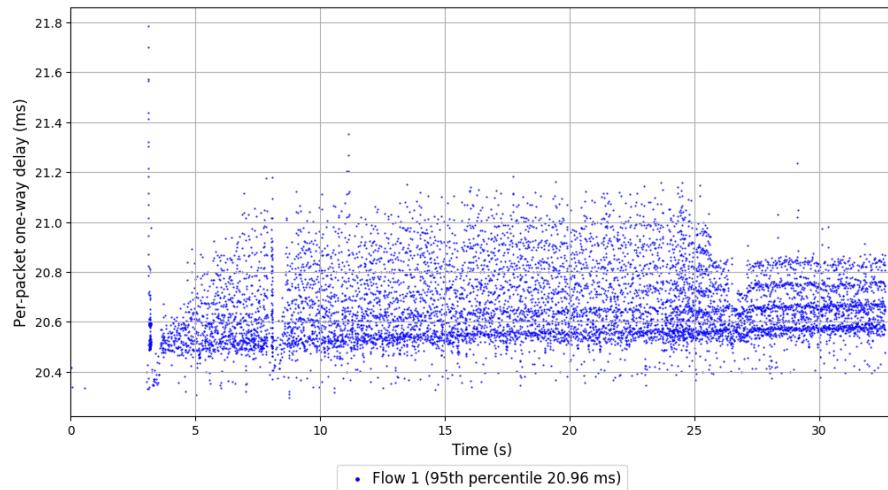
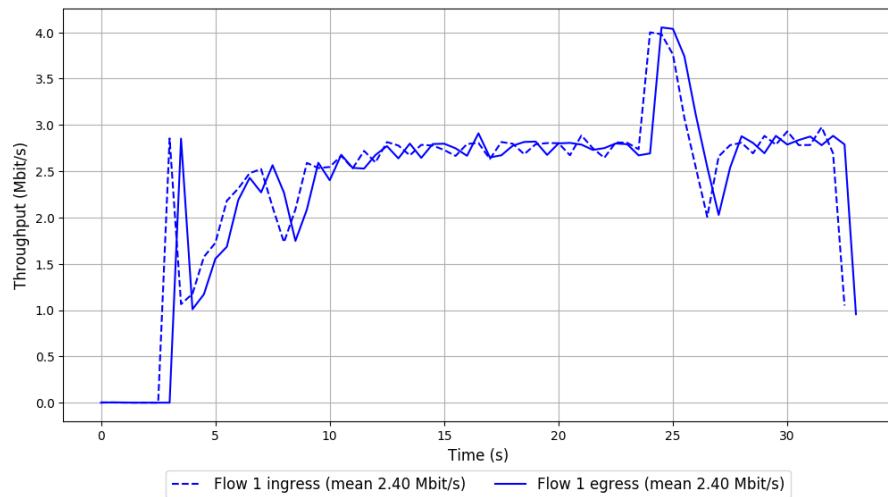


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-07-12 10:05:34
End at: 2019-07-12 10:06:04
Local clock offset: -3.503 ms
Remote clock offset: -0.604 ms

# Below is generated by plot.py at 2019-07-12 12:44:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 20.963 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 20.963 ms
Loss rate: 0.12%
```

Run 1: Report of WebRTC media — Data Link

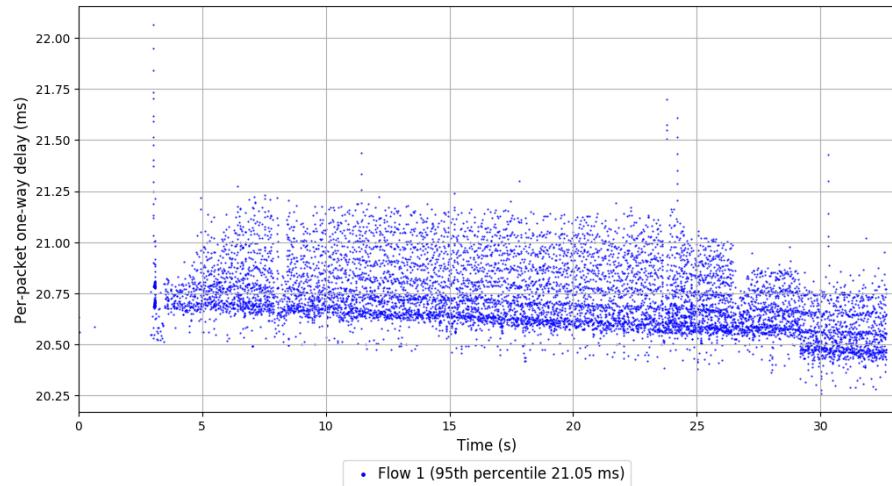
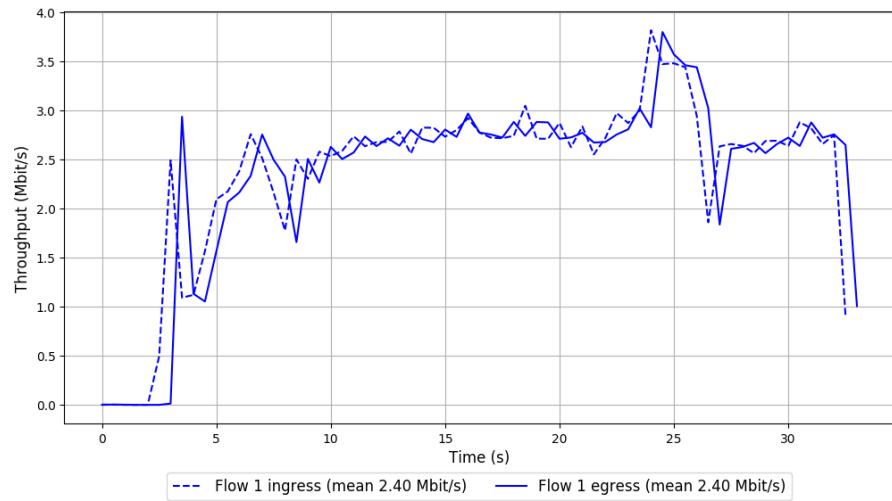


Run 2: Statistics of WebRTC media

```
Start at: 2019-07-12 10:33:49
End at: 2019-07-12 10:34:19
Local clock offset: -2.902 ms
Remote clock offset: 2.176 ms

# Below is generated by plot.py at 2019-07-12 12:44:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 21.053 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 21.053 ms
Loss rate: 0.06%
```

Run 2: Report of WebRTC media — Data Link

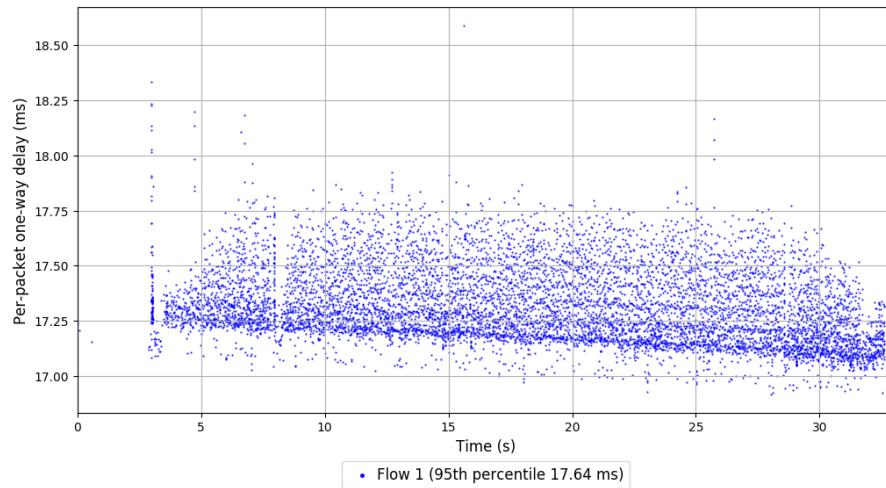
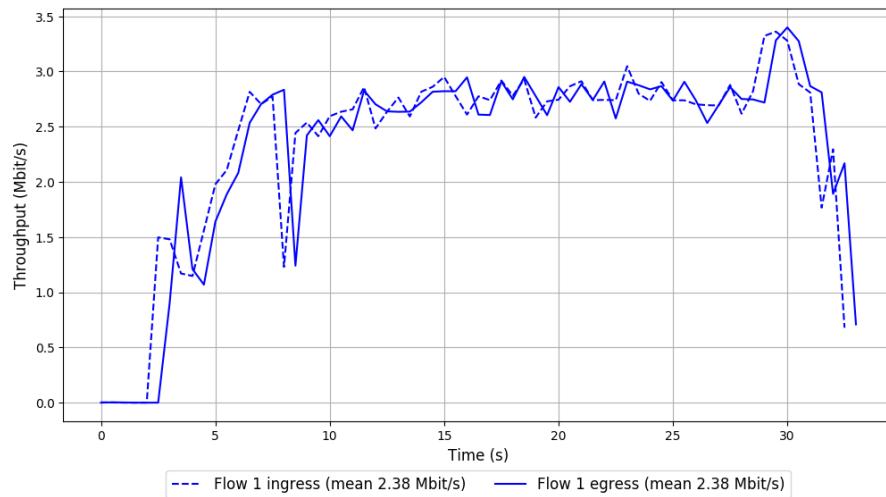


Run 3: Statistics of WebRTC media

```
Start at: 2019-07-12 11:02:02
End at: 2019-07-12 11:02:32
Local clock offset: 0.531 ms
Remote clock offset: -0.509 ms

# Below is generated by plot.py at 2019-07-12 12:44:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 17.644 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 17.644 ms
Loss rate: 0.06%
```

Run 3: Report of WebRTC media — Data Link

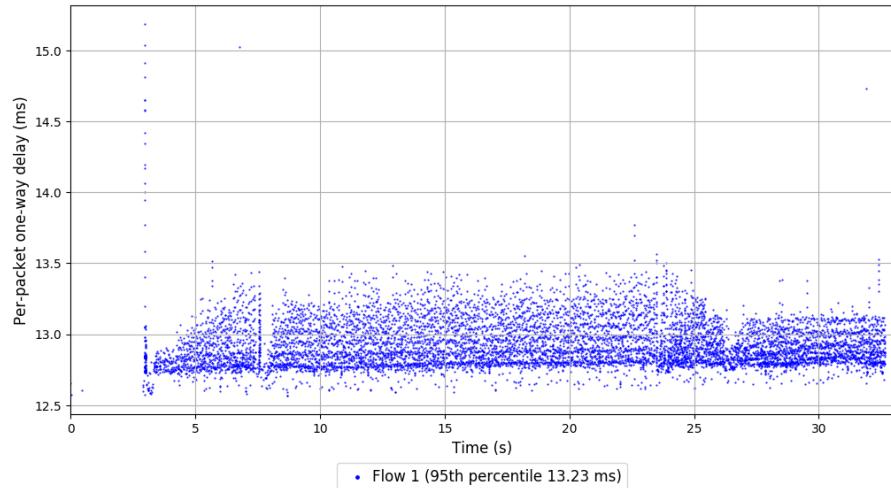
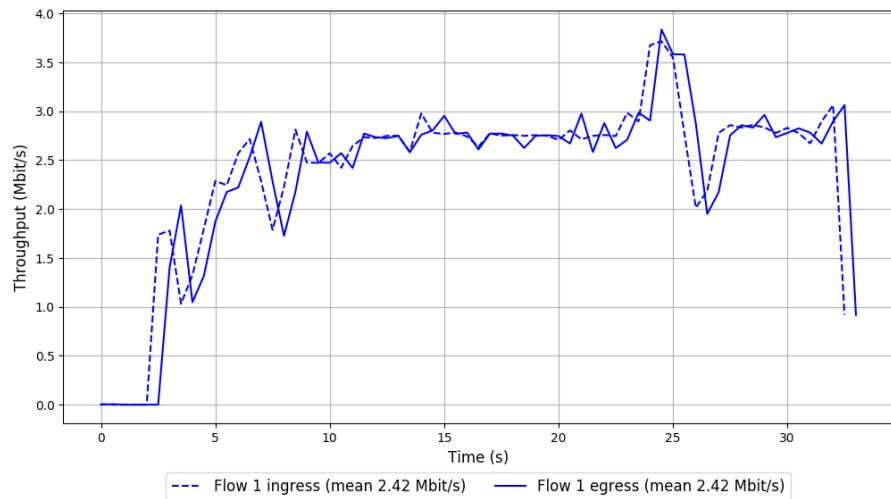


Run 4: Statistics of WebRTC media

```
Start at: 2019-07-12 11:30:48
End at: 2019-07-12 11:31:18
Local clock offset: 4.223 ms
Remote clock offset: 3.739 ms

# Below is generated by plot.py at 2019-07-12 12:44:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 13.229 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 13.229 ms
Loss rate: 0.06%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-07-12 11:59:40
End at: 2019-07-12 12:00:10
Local clock offset: 2.599 ms
Remote clock offset: 2.741 ms

# Below is generated by plot.py at 2019-07-12 12:44:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 13.229 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 13.229 ms
Loss rate: 0.06%
```

Run 5: Report of WebRTC media — Data Link

