

Pantheon Report

Generated at 2019-01-25 12:58:54 (UTC).
Data path: India on `em1` (*remote*) → AWS India 1 on `ens5` (*local*).
Repeated the test of 21 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.

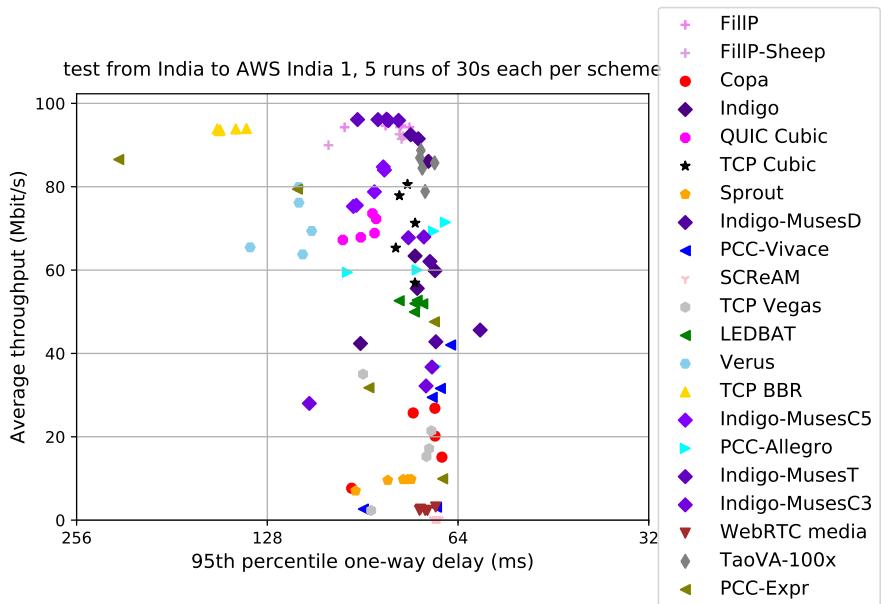
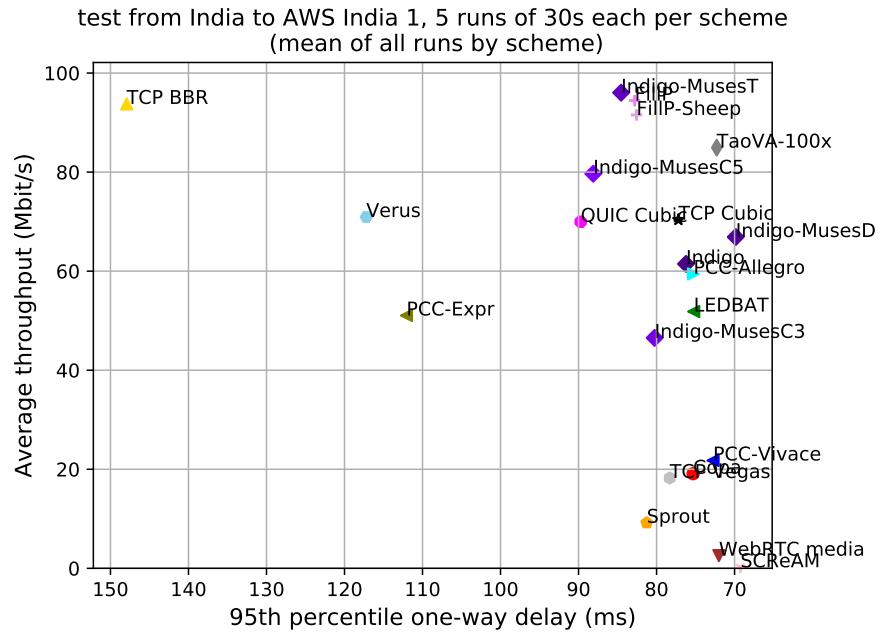
System info:

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

Git summary:

```
branch: muses @ 0b8e9a949603c3842368430acf469eec3b941f9f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ d9c5ea33091330aca25ecd105ab2db6d34d5c40d
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



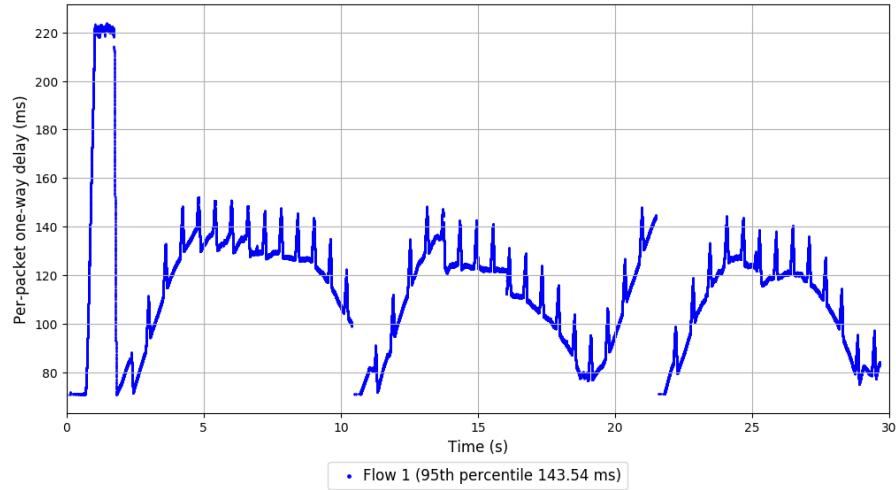
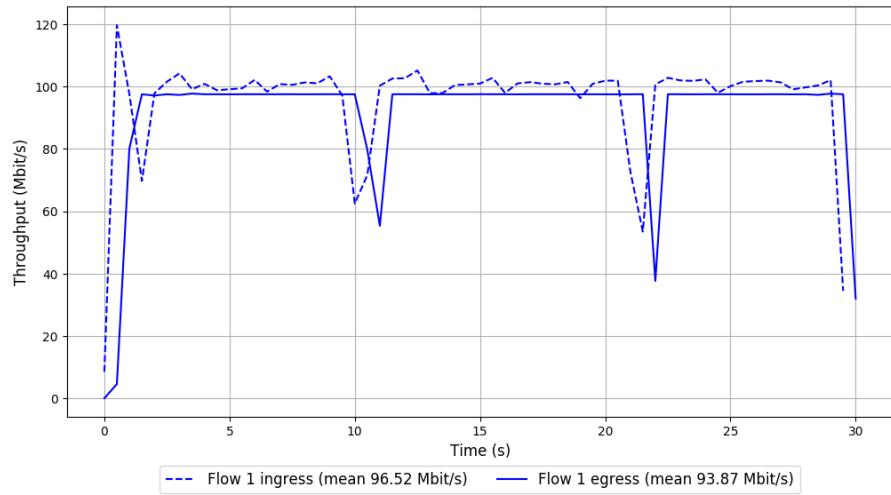
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	93.77	147.92	2.95
Copa	5	19.10	75.32	0.31
TCP Cubic	5	70.39	77.20	0.38
FillP	5	94.44	82.81	0.30
FillP-Sheep	5	91.54	82.57	0.32
Indigo	5	61.47	76.23	0.20
Indigo-MusesC3	5	46.53	80.25	0.24
Indigo-MusesC5	5	79.67	88.12	0.31
Indigo-MusesD	5	66.89	69.85	0.34
Indigo-MusesT	5	96.04	84.54	0.35
LEDBAT	5	51.85	75.24	0.33
PCC-Allegro	5	59.44	75.27	0.31
PCC-Expr	5	51.05	112.06	0.47
QUIC Cubic	5	69.97	89.73	0.38
SCReAM	5	0.22	69.24	0.26
Sprout	5	9.19	81.26	0.46
TaoVA-100x	5	84.94	72.29	0.39
TCP Vegas	5	18.24	78.31	0.33
Verus	5	70.94	117.21	0.68
PCC-Vivace	5	21.77	72.76	0.45
WebRTC media	5	2.55	72.01	0.36

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-25 11:02:34
End at: 2019-01-25 11:03:04
Local clock offset: 0.142 ms
Remote clock offset: -7.599 ms

# Below is generated by plot.py at 2019-01-25 12:50:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 143.544 ms
Loss rate: 3.00%
-- Flow 1:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 143.544 ms
Loss rate: 3.00%
```

Run 1: Report of TCP BBR — Data Link

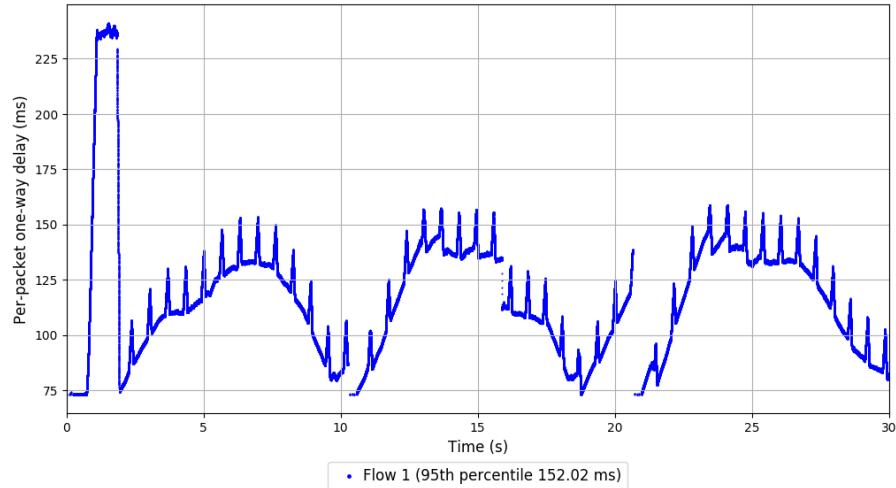
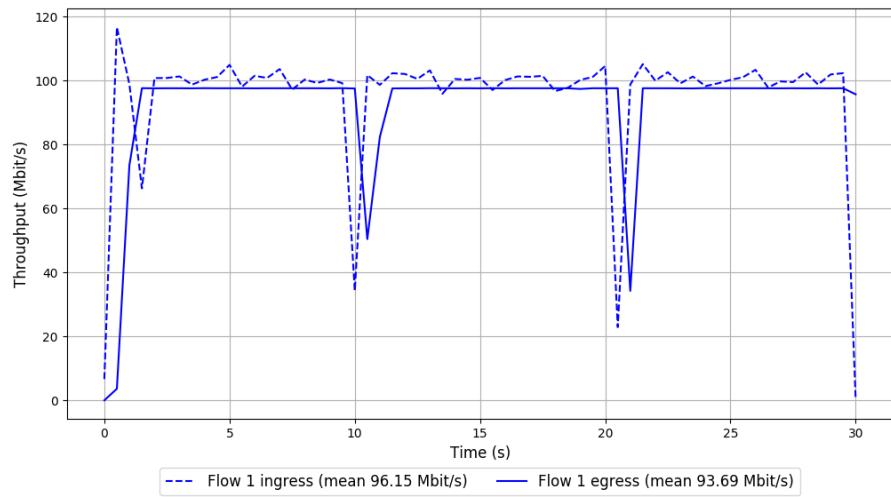


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-25 11:27:33
End at: 2019-01-25 11:28:03
Local clock offset: -2.163 ms
Remote clock offset: -5.423 ms

# Below is generated by plot.py at 2019-01-25 12:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 152.022 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 152.022 ms
Loss rate: 2.83%
```

Run 2: Report of TCP BBR — Data Link

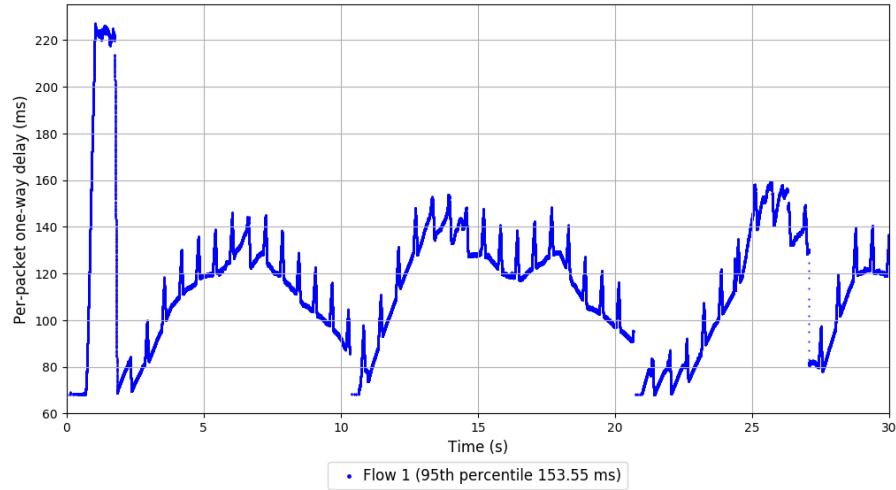
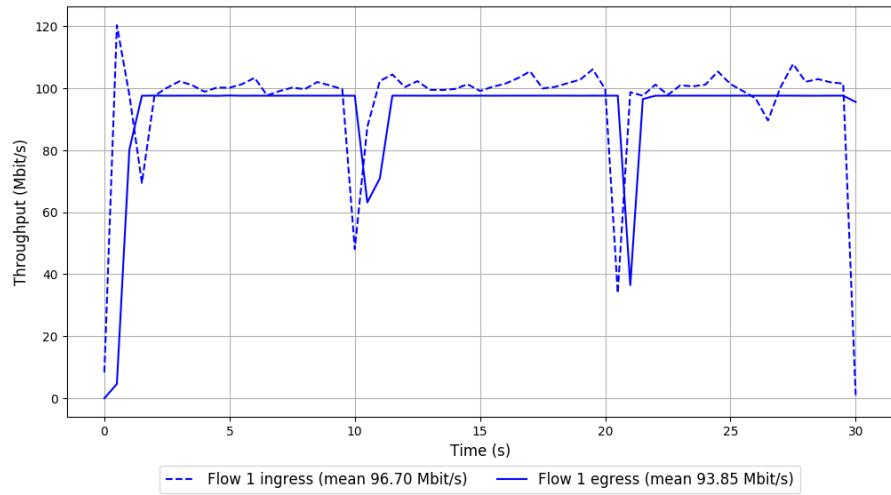


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-25 11:52:43
End at: 2019-01-25 11:53:13
Local clock offset: -1.11 ms
Remote clock offset: -1.74 ms

# Below is generated by plot.py at 2019-01-25 12:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 153.547 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 153.547 ms
Loss rate: 3.22%
```

Run 3: Report of TCP BBR — Data Link

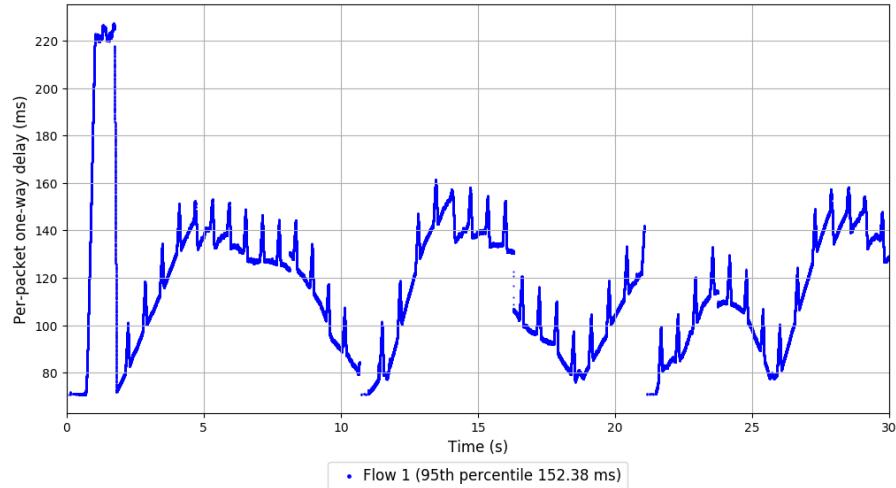
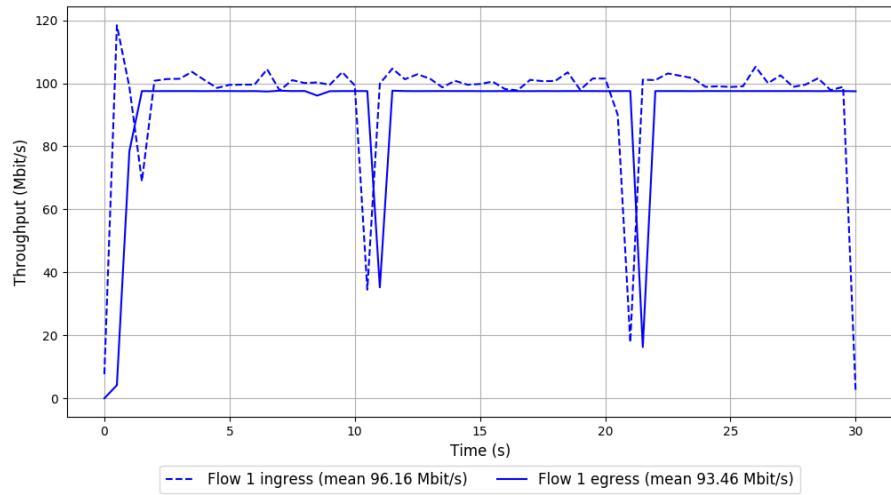


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-25 12:18:19
End at: 2019-01-25 12:18:49
Local clock offset: 2.405 ms
Remote clock offset: -0.935 ms

# Below is generated by plot.py at 2019-01-25 12:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 152.376 ms
Loss rate: 3.07%
-- Flow 1:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 152.376 ms
Loss rate: 3.07%
```

Run 4: Report of TCP BBR — Data Link

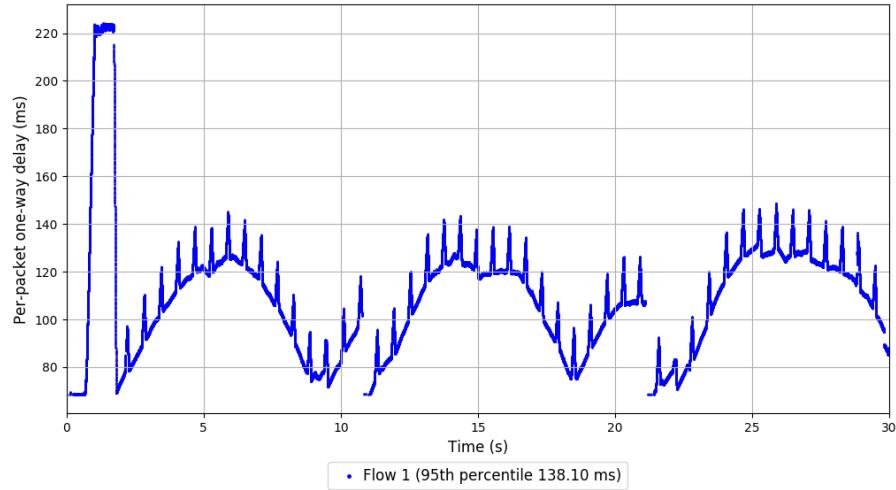
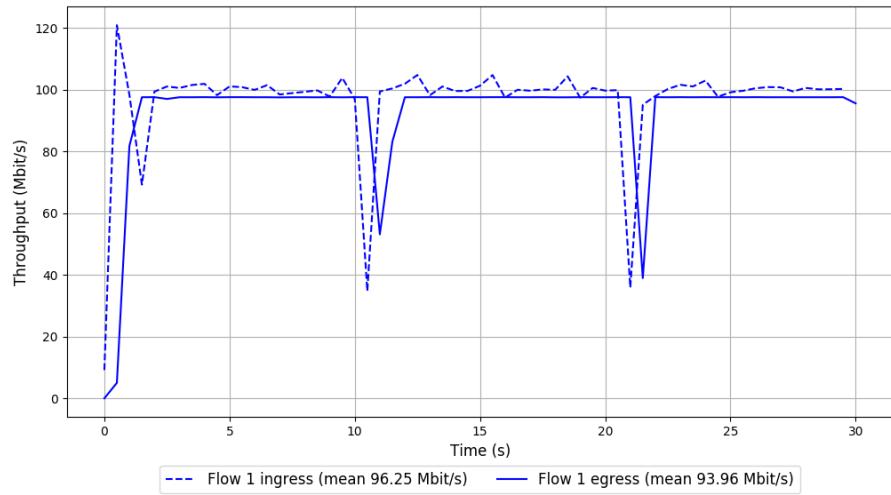


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-25 12:44:16
End at: 2019-01-25 12:44:46
Local clock offset: 1.533 ms
Remote clock offset: -0.79 ms

# Below is generated by plot.py at 2019-01-25 12:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.96 Mbit/s
95th percentile per-packet one-way delay: 138.097 ms
Loss rate: 2.63%
-- Flow 1:
Average throughput: 93.96 Mbit/s
95th percentile per-packet one-way delay: 138.097 ms
Loss rate: 2.63%
```

Run 5: Report of TCP BBR — Data Link

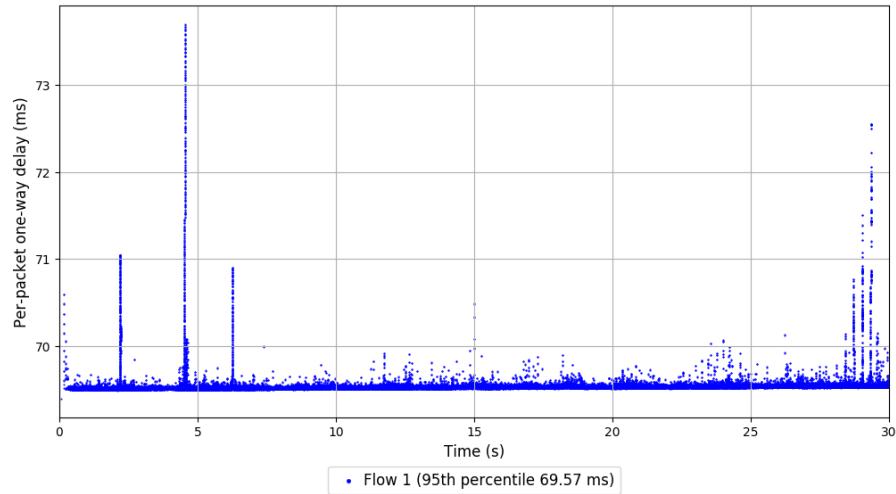
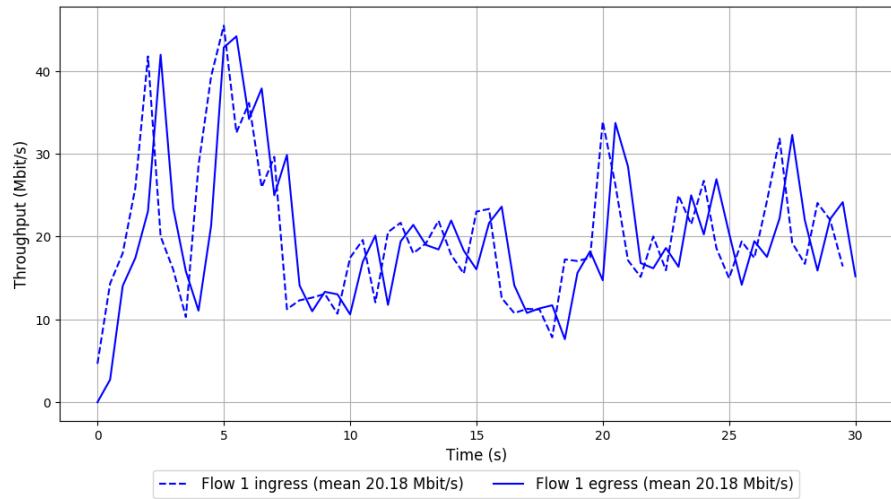


Run 1: Statistics of Copa

```
Start at: 2019-01-25 10:42:53
End at: 2019-01-25 10:43:23
Local clock offset: -2.171 ms
Remote clock offset: -9.713 ms

# Below is generated by plot.py at 2019-01-25 12:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.18 Mbit/s
95th percentile per-packet one-way delay: 69.571 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 20.18 Mbit/s
95th percentile per-packet one-way delay: 69.571 ms
Loss rate: 0.26%
```

Run 1: Report of Copa — Data Link

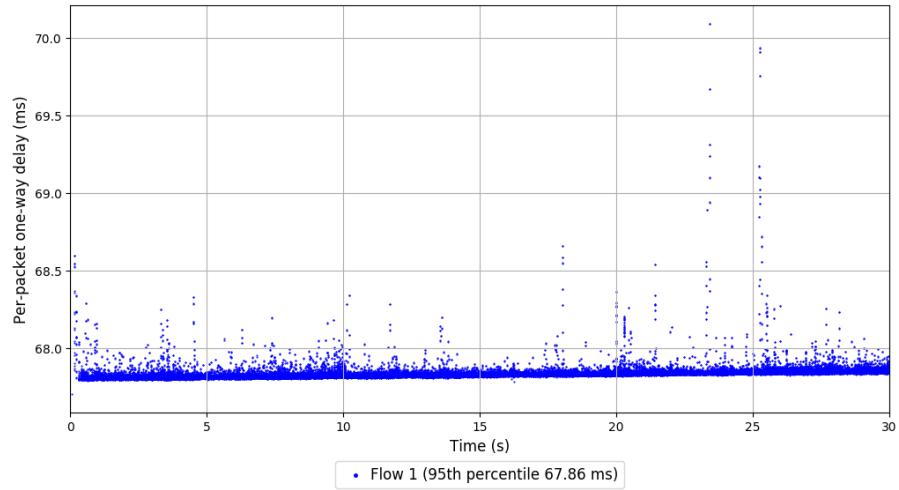
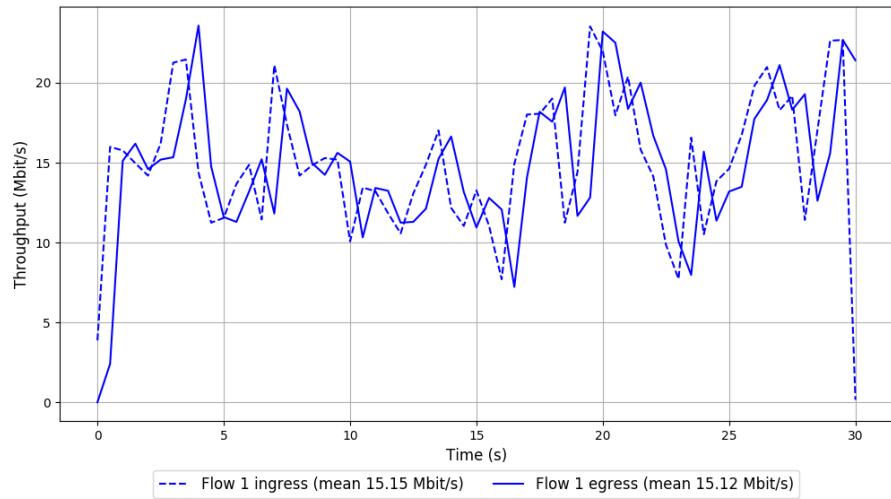


Run 2: Statistics of Copa

```
Start at: 2019-01-25 11:07:51
End at: 2019-01-25 11:08:21
Local clock offset: -1.731 ms
Remote clock offset: -5.846 ms

# Below is generated by plot.py at 2019-01-25 12:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.12 Mbit/s
95th percentile per-packet one-way delay: 67.863 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 15.12 Mbit/s
95th percentile per-packet one-way delay: 67.863 ms
Loss rate: 0.46%
```

Run 2: Report of Copa — Data Link

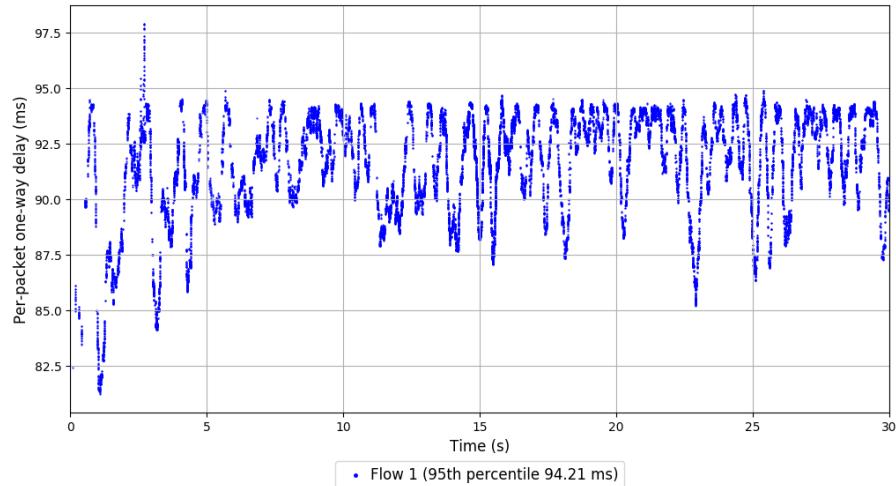
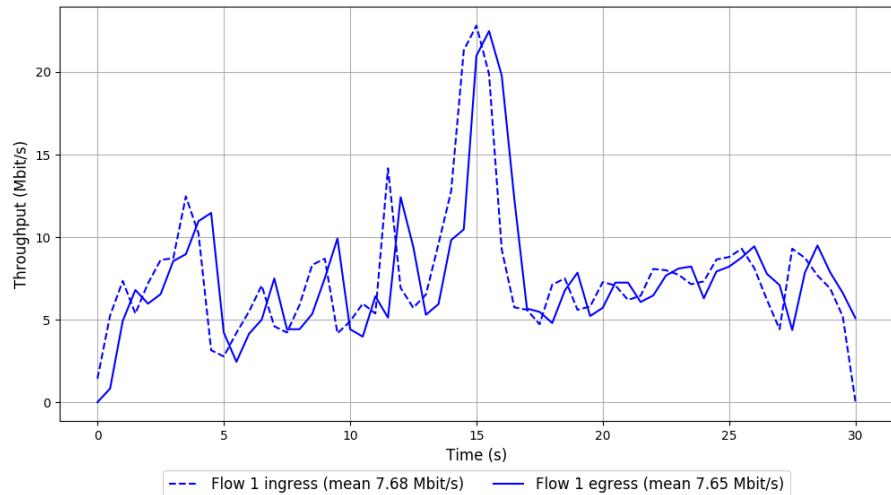


Run 3: Statistics of Copa

```
Start at: 2019-01-25 11:32:44
End at: 2019-01-25 11:33:14
Local clock offset: -1.126 ms
Remote clock offset: 8.899 ms

# Below is generated by plot.py at 2019-01-25 12:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 94.212 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 94.212 ms
Loss rate: 0.63%
```

Run 3: Report of Copa — Data Link

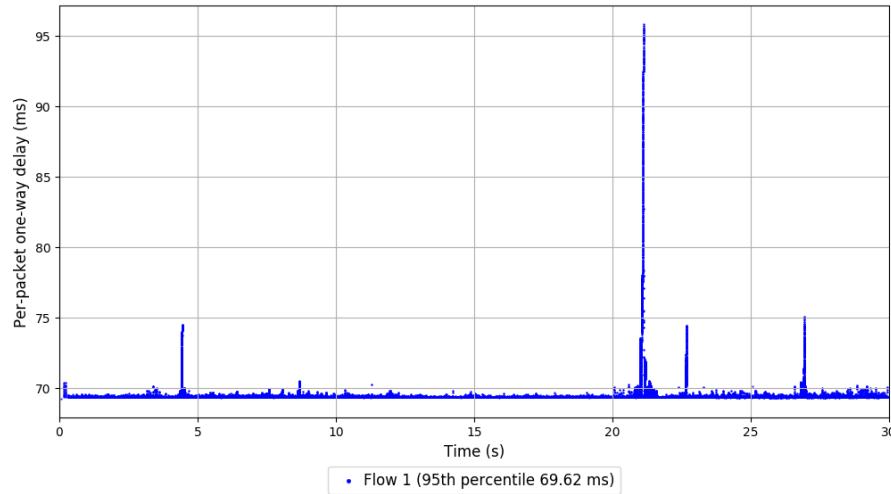
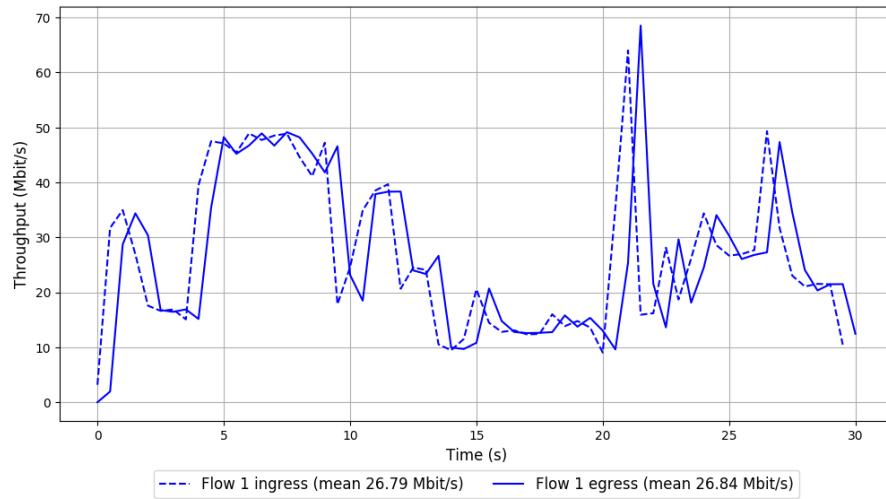


Run 4: Statistics of Copa

```
Start at: 2019-01-25 11:57:45
End at: 2019-01-25 11:58:15
Local clock offset: 1.981 ms
Remote clock offset: 0.591 ms

# Below is generated by plot.py at 2019-01-25 12:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.84 Mbit/s
95th percentile per-packet one-way delay: 69.619 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 26.84 Mbit/s
95th percentile per-packet one-way delay: 69.619 ms
Loss rate: 0.07%
```

Run 4: Report of Copa — Data Link

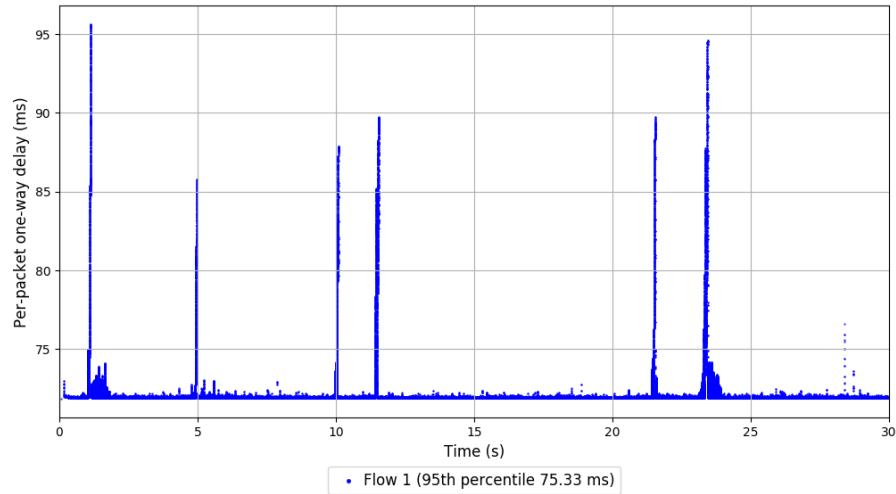
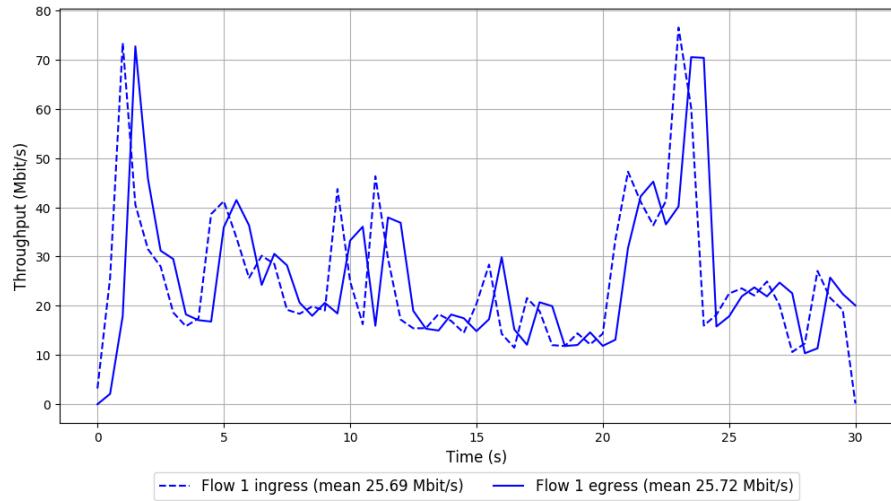


Run 5: Statistics of Copa

```
Start at: 2019-01-25 12:23:40
End at: 2019-01-25 12:24:10
Local clock offset: 2.783 ms
Remote clock offset: -1.66 ms

# Below is generated by plot.py at 2019-01-25 12:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.72 Mbit/s
95th percentile per-packet one-way delay: 75.327 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 25.72 Mbit/s
95th percentile per-packet one-way delay: 75.327 ms
Loss rate: 0.15%
```

Run 5: Report of Copa — Data Link

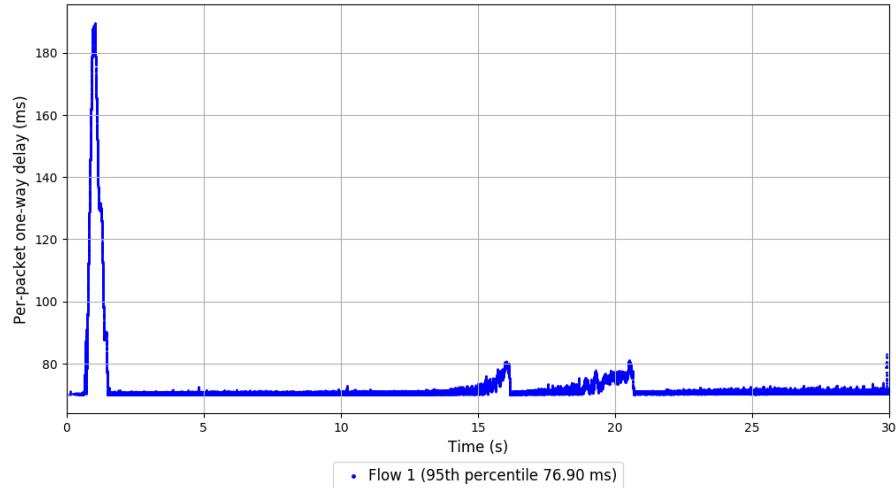
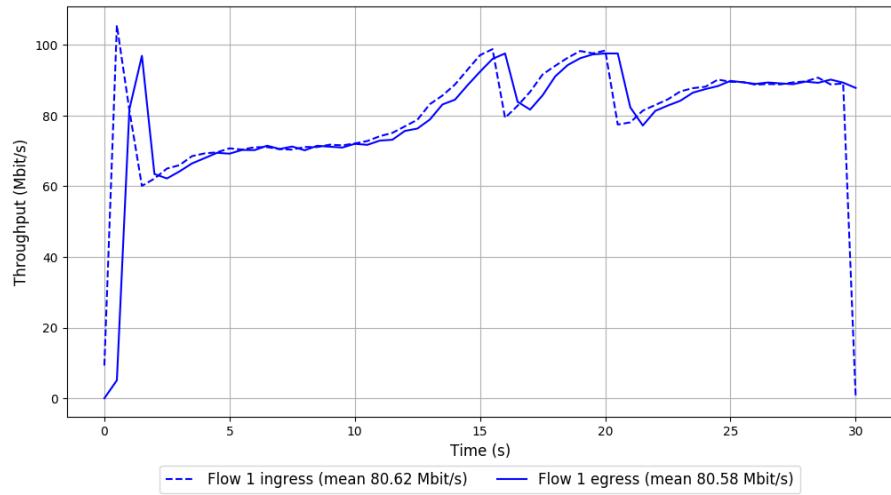


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-25 10:53:07
End at: 2019-01-25 10:53:37
Local clock offset: 0.924 ms
Remote clock offset: -5.349 ms

# Below is generated by plot.py at 2019-01-25 12:50:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.58 Mbit/s
95th percentile per-packet one-way delay: 76.900 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 80.58 Mbit/s
95th percentile per-packet one-way delay: 76.900 ms
Loss rate: 0.31%
```

Run 1: Report of TCP Cubic — Data Link

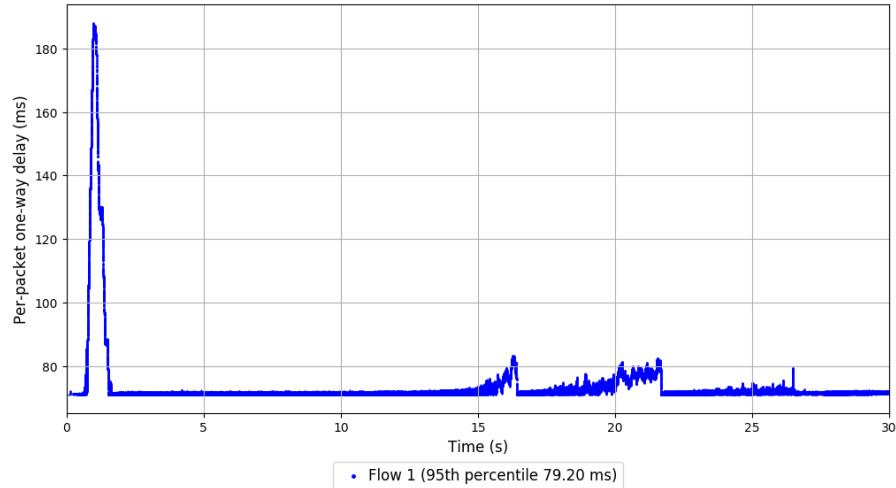
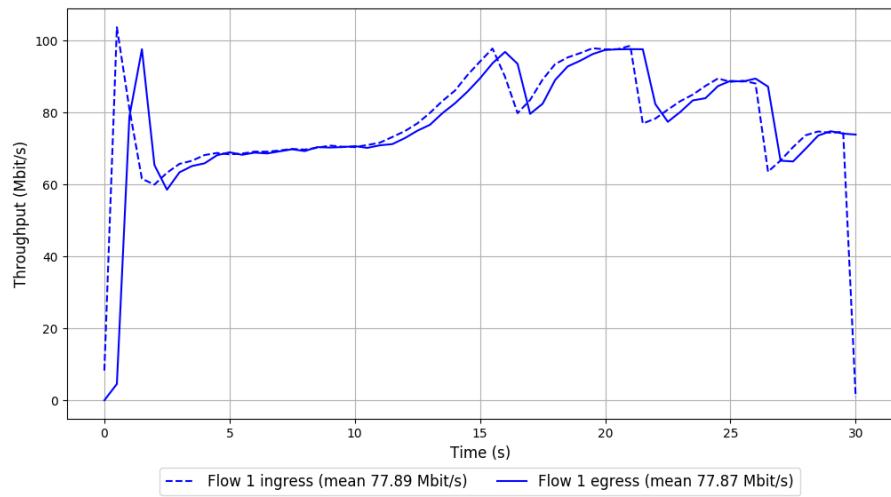


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-25 11:18:14
End at: 2019-01-25 11:18:44
Local clock offset: -1.301 ms
Remote clock offset: -3.218 ms

# Below is generated by plot.py at 2019-01-25 12:50:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 79.201 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 79.201 ms
Loss rate: 0.29%
```

Run 2: Report of TCP Cubic — Data Link

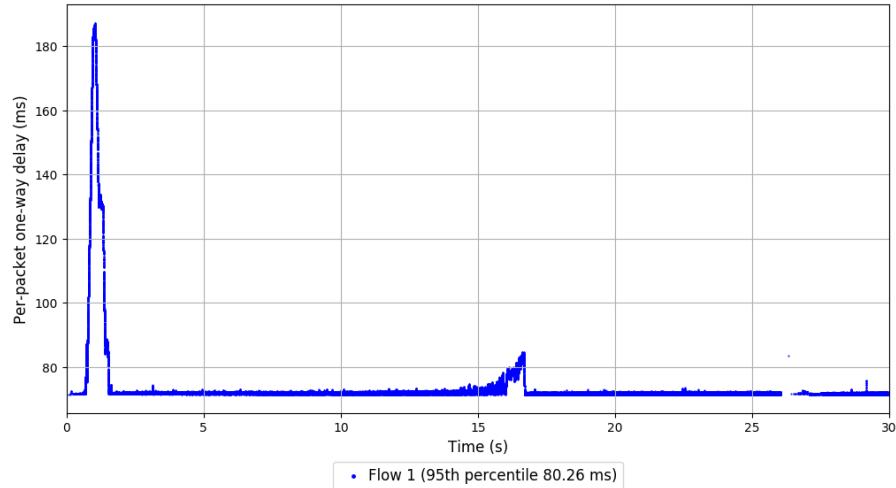
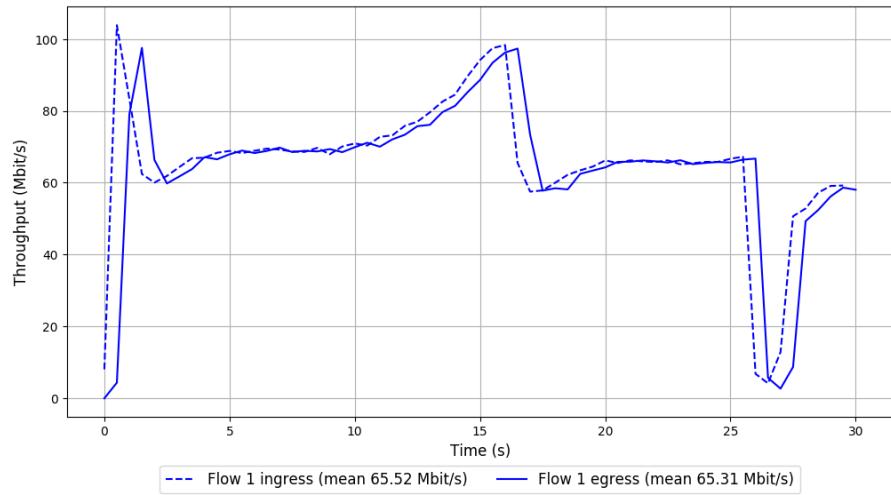


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-25 11:43:27
End at: 2019-01-25 11:43:57
Local clock offset: 0.668 ms
Remote clock offset: -2.829 ms

# Below is generated by plot.py at 2019-01-25 12:50:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.31 Mbit/s
95th percentile per-packet one-way delay: 80.258 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 65.31 Mbit/s
95th percentile per-packet one-way delay: 80.258 ms
Loss rate: 0.59%
```

Run 3: Report of TCP Cubic — Data Link

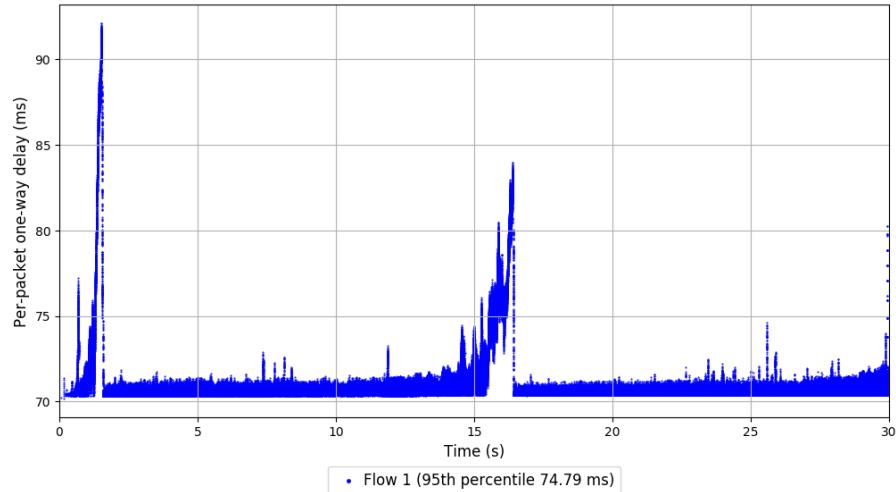
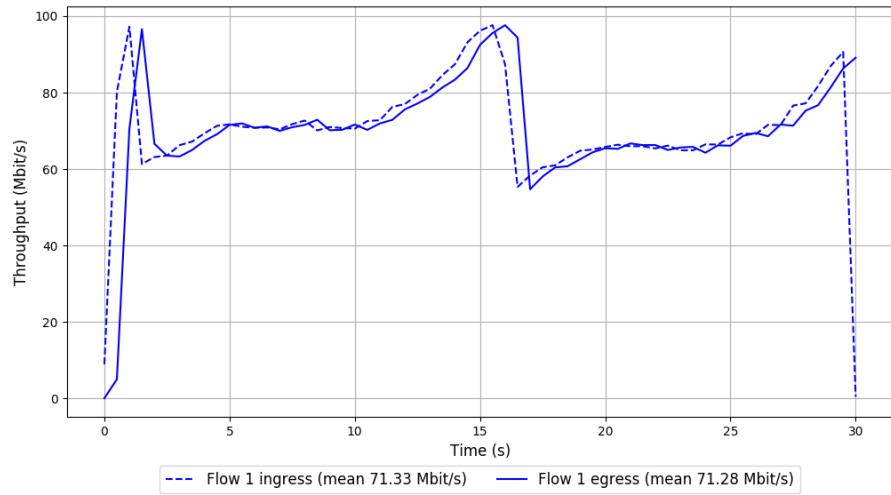


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-25 12:08:42
End at: 2019-01-25 12:09:12
Local clock offset: 0.937 ms
Remote clock offset: -0.603 ms

# Below is generated by plot.py at 2019-01-25 12:50:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.28 Mbit/s
95th percentile per-packet one-way delay: 74.794 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 71.28 Mbit/s
95th percentile per-packet one-way delay: 74.794 ms
Loss rate: 0.35%
```

Run 4: Report of TCP Cubic — Data Link

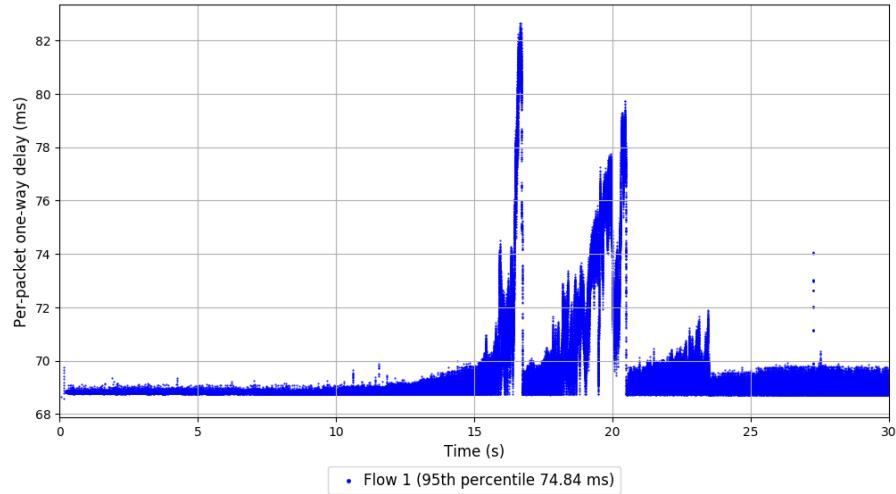
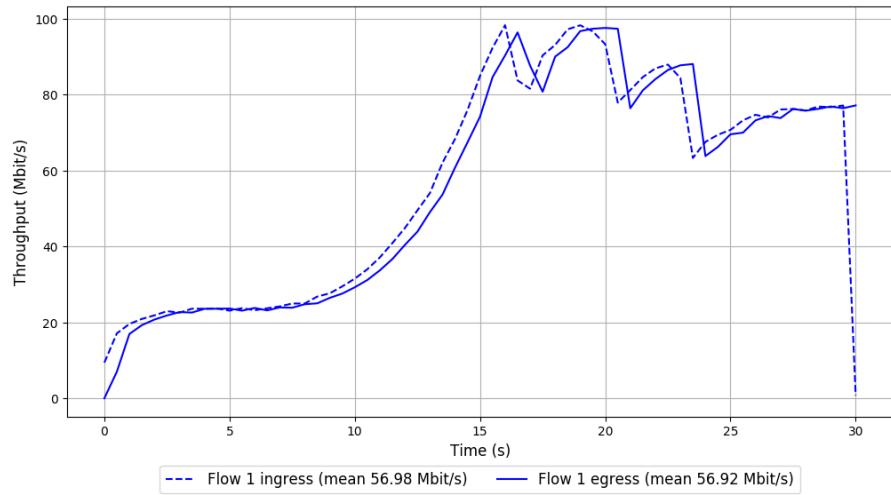


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-25 12:34:34
End at: 2019-01-25 12:35:04
Local clock offset: 1.524 ms
Remote clock offset: -1.633 ms

# Below is generated by plot.py at 2019-01-25 12:50:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.92 Mbit/s
95th percentile per-packet one-way delay: 74.842 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 56.92 Mbit/s
95th percentile per-packet one-way delay: 74.842 ms
Loss rate: 0.34%
```

Run 5: Report of TCP Cubic — Data Link

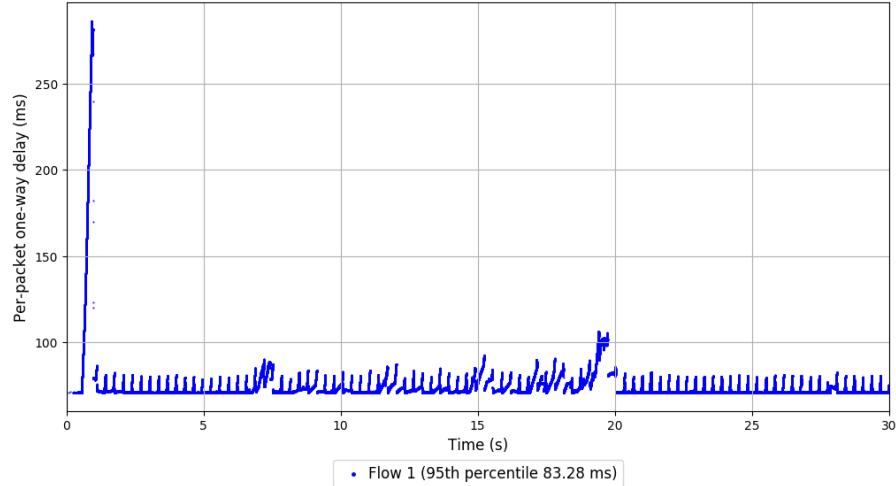
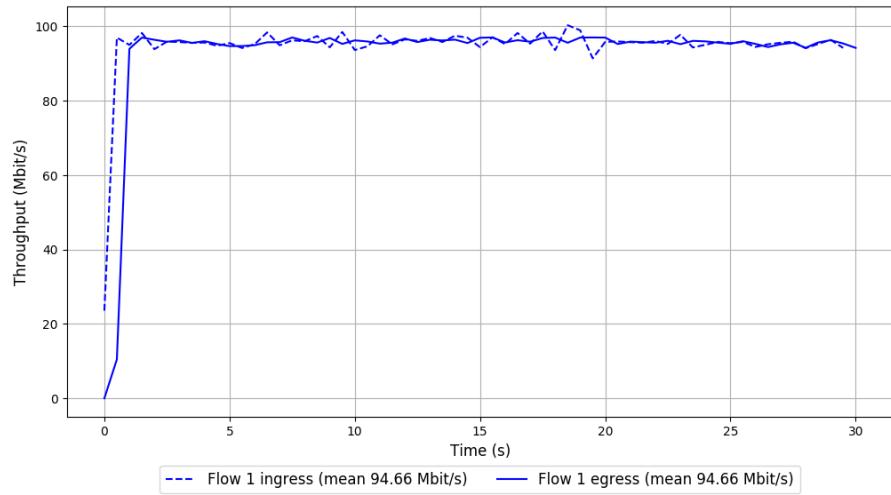


```
Run 1: Statistics of FillP

Start at: 2019-01-25 10:41:37
End at: 2019-01-25 10:42:07
Local clock offset: 0.085 ms
Remote clock offset: -9.043 ms

# Below is generated by plot.py at 2019-01-25 12:51:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 83.277 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 83.277 ms
Loss rate: 0.26%
```

Run 1: Report of FillP — Data Link

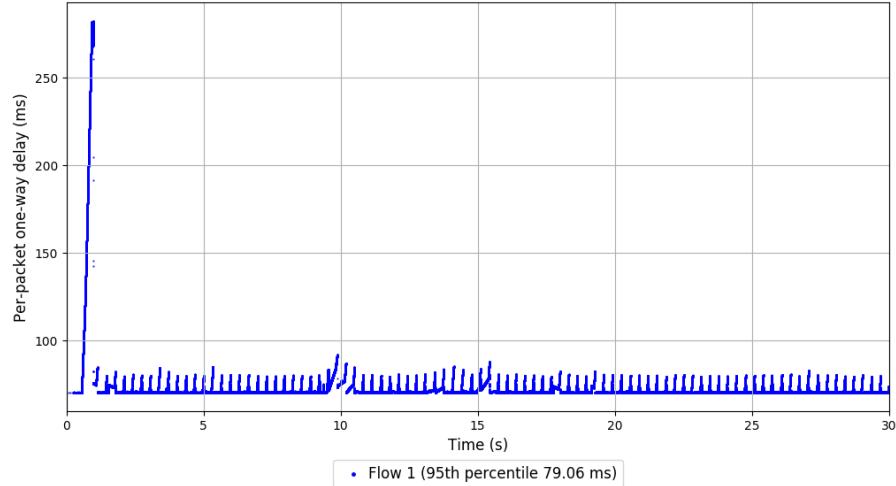
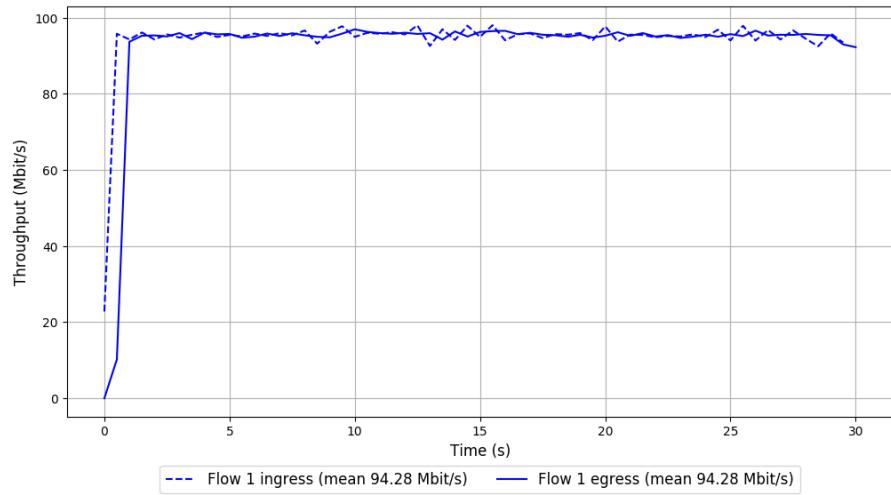


Run 2: Statistics of FillP

```
Start at: 2019-01-25 11:06:39
End at: 2019-01-25 11:07:09
Local clock offset: -0.237 ms
Remote clock offset: -5.918 ms

# Below is generated by plot.py at 2019-01-25 12:51:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 79.057 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 79.057 ms
Loss rate: 0.26%
```

Run 2: Report of FillP — Data Link

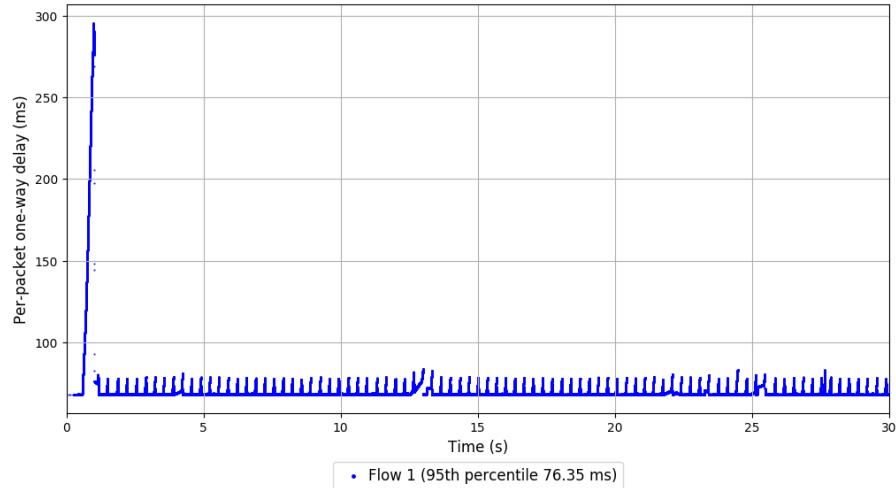
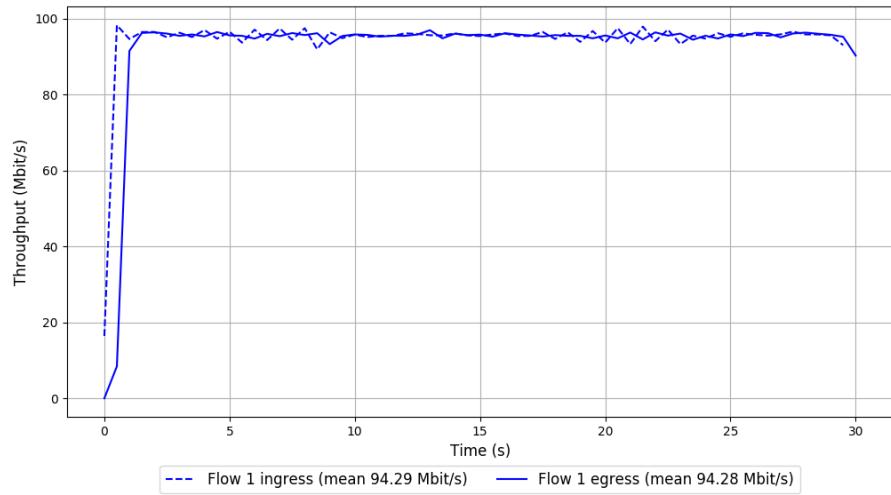


Run 3: Statistics of FillP

```
Start at: 2019-01-25 11:31:32
End at: 2019-01-25 11:32:02
Local clock offset: -2.514 ms
Remote clock offset: -0.804 ms

# Below is generated by plot.py at 2019-01-25 12:51:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 76.352 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 76.352 ms
Loss rate: 0.29%
```

Run 3: Report of FillP — Data Link

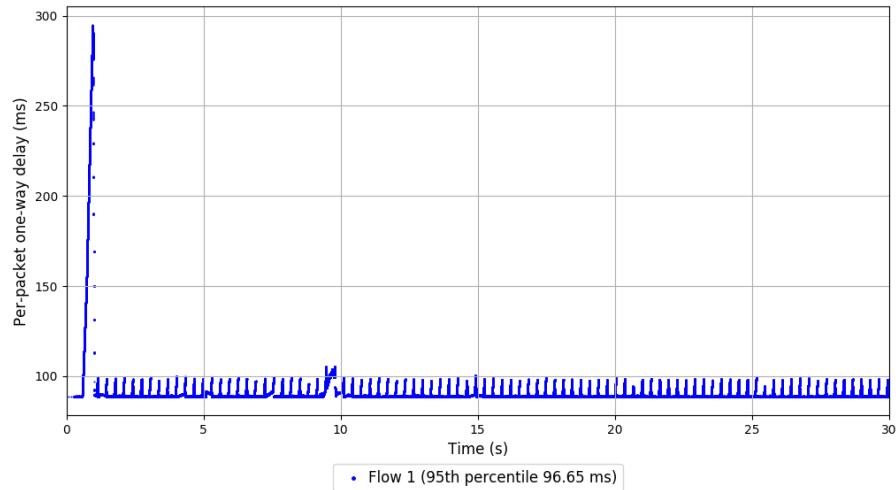
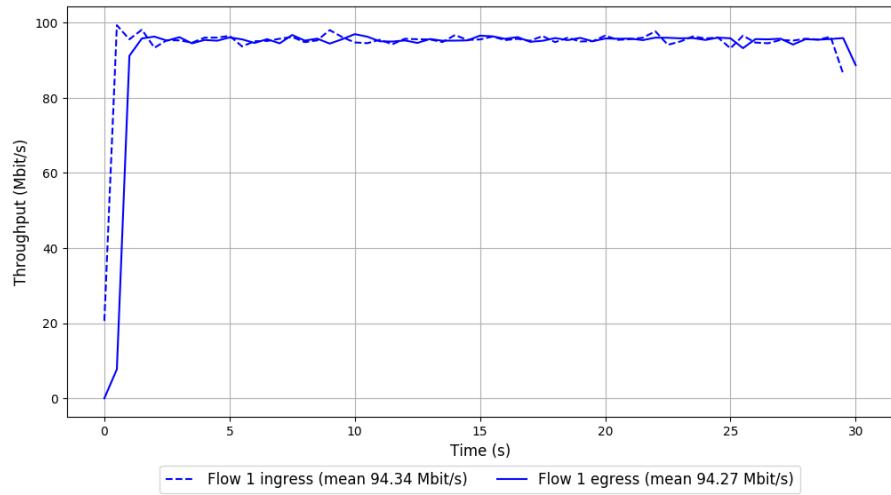


```
Run 4: Statistics of FillP
```

```
Start at: 2019-01-25 11:56:33
End at: 2019-01-25 11:57:03
Local clock offset: 3.305 ms
Remote clock offset: -19.088 ms

# Below is generated by plot.py at 2019-01-25 12:51:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 96.653 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 96.653 ms
Loss rate: 0.33%
```

Run 4: Report of FillP — Data Link

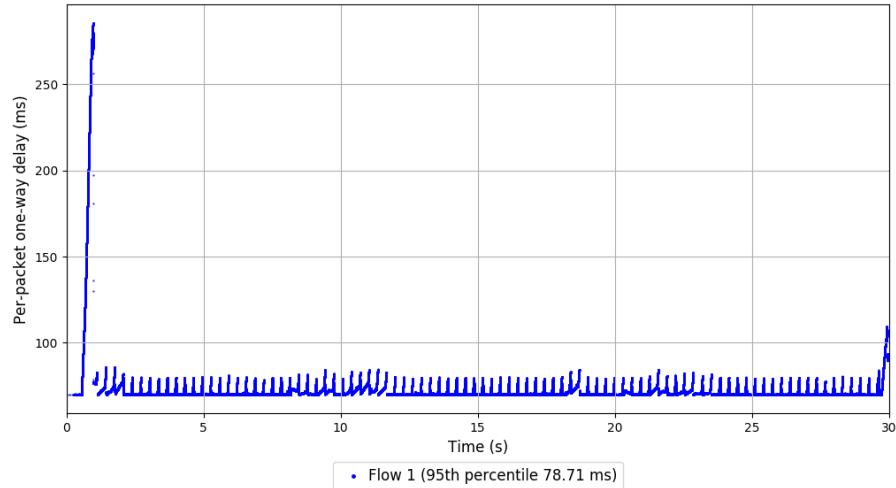
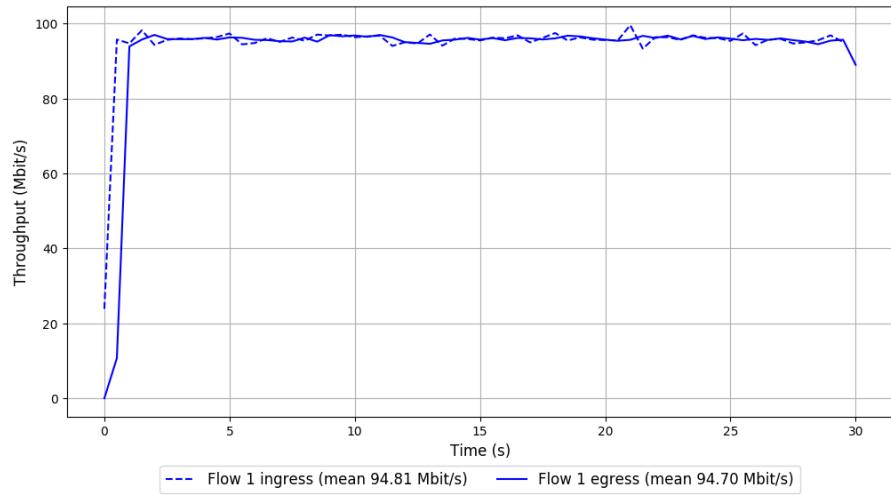


Run 5: Statistics of FillP

```
Start at: 2019-01-25 12:22:22
End at: 2019-01-25 12:22:52
Local clock offset: -0.103 ms
Remote clock offset: -1.432 ms

# Below is generated by plot.py at 2019-01-25 12:52:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.70 Mbit/s
95th percentile per-packet one-way delay: 78.709 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 94.70 Mbit/s
95th percentile per-packet one-way delay: 78.709 ms
Loss rate: 0.37%
```

Run 5: Report of FillP — Data Link

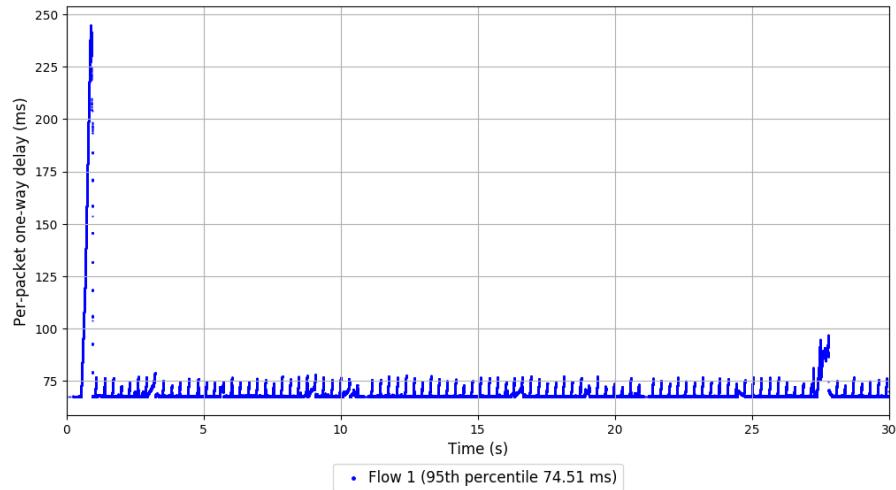
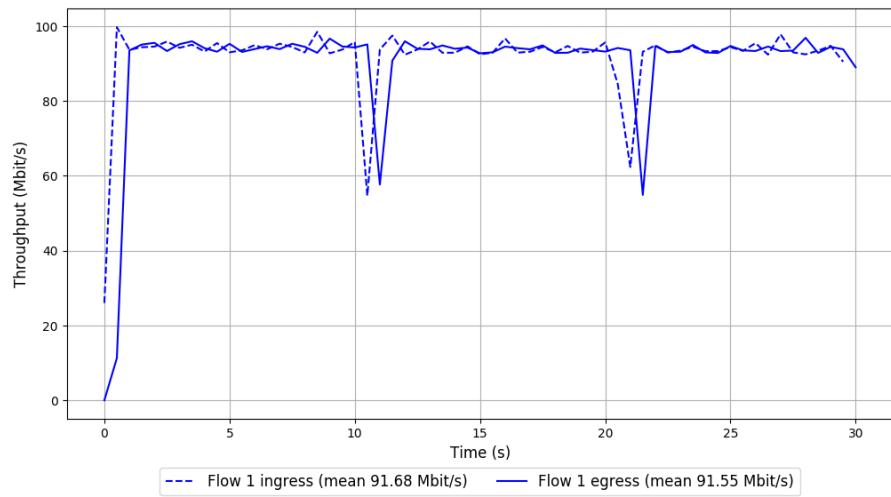


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-25 10:45:08
End at: 2019-01-25 10:45:38
Local clock offset: -3.01 ms
Remote clock offset: -8.57 ms

# Below is generated by plot.py at 2019-01-25 12:52:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.55 Mbit/s
95th percentile per-packet one-way delay: 74.513 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 91.55 Mbit/s
95th percentile per-packet one-way delay: 74.513 ms
Loss rate: 0.38%
```

Run 1: Report of FillP-Sheep — Data Link

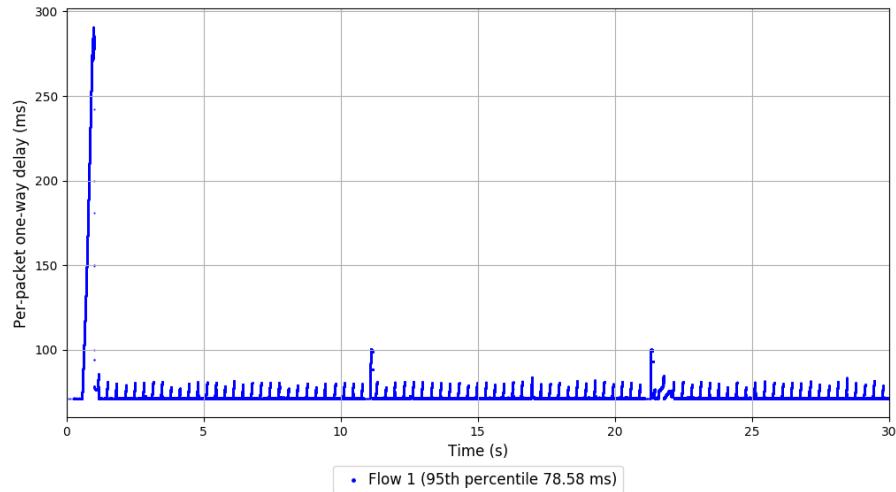
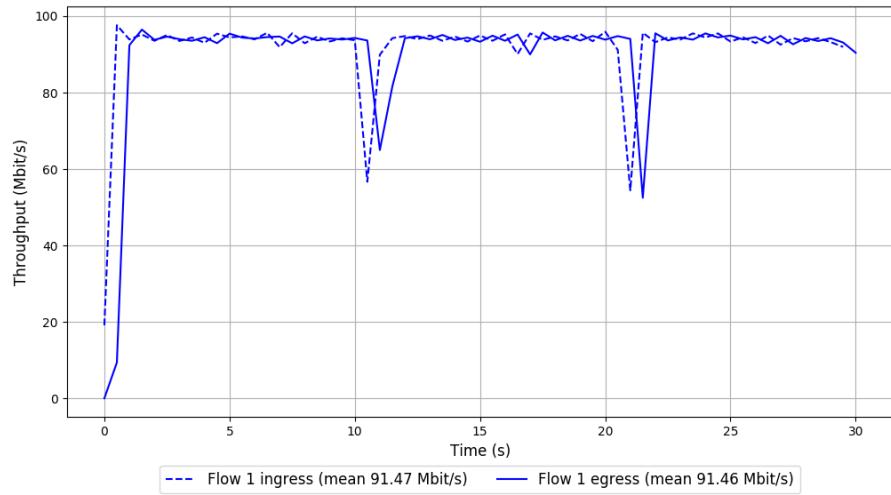


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-25 11:10:06
End at: 2019-01-25 11:10:36
Local clock offset: -2.12 ms
Remote clock offset: -5.964 ms

# Below is generated by plot.py at 2019-01-25 12:52:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.46 Mbit/s
95th percentile per-packet one-way delay: 78.575 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 91.46 Mbit/s
95th percentile per-packet one-way delay: 78.575 ms
Loss rate: 0.28%
```

Run 2: Report of FillP-Sheep — Data Link

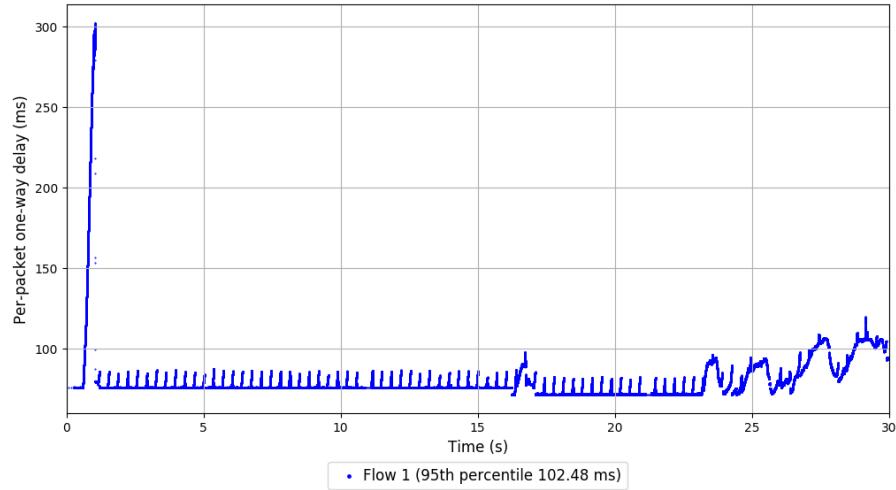
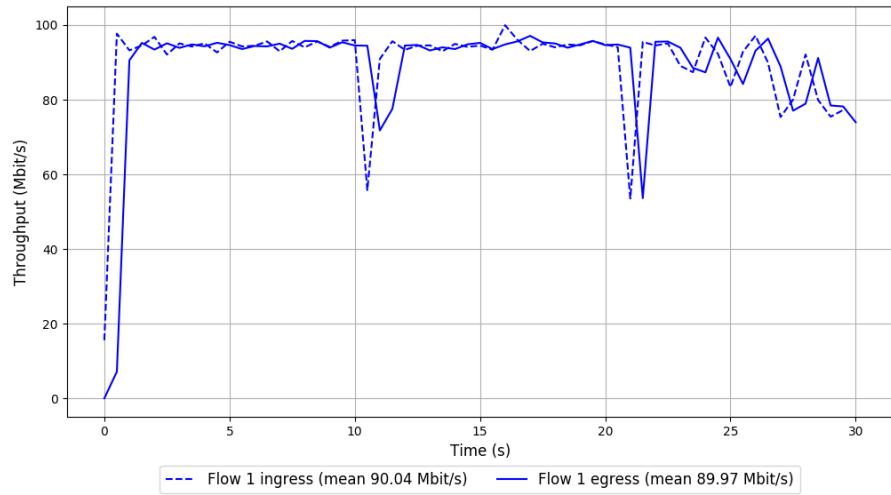


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-25 11:35:00
End at: 2019-01-25 11:35:30
Local clock offset: 1.878 ms
Remote clock offset: -1.008 ms

# Below is generated by plot.py at 2019-01-25 12:52:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.97 Mbit/s
95th percentile per-packet one-way delay: 102.479 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 89.97 Mbit/s
95th percentile per-packet one-way delay: 102.479 ms
Loss rate: 0.35%
```

Run 3: Report of FillP-Sheep — Data Link

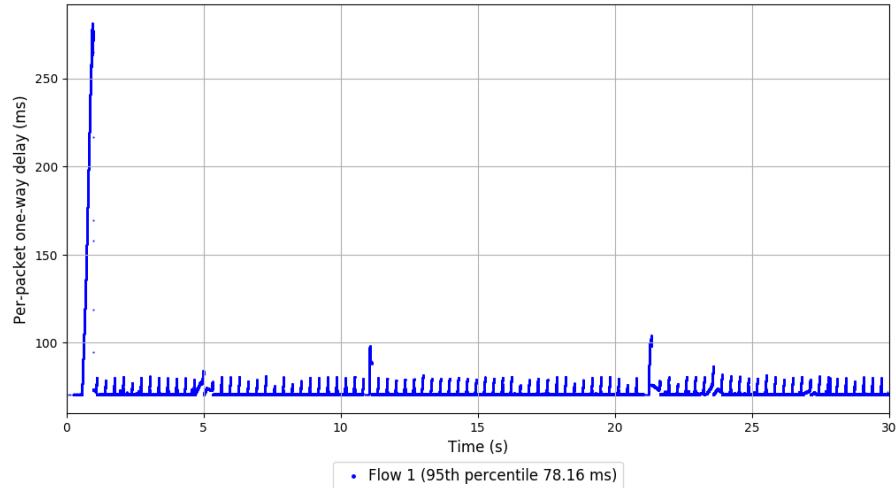
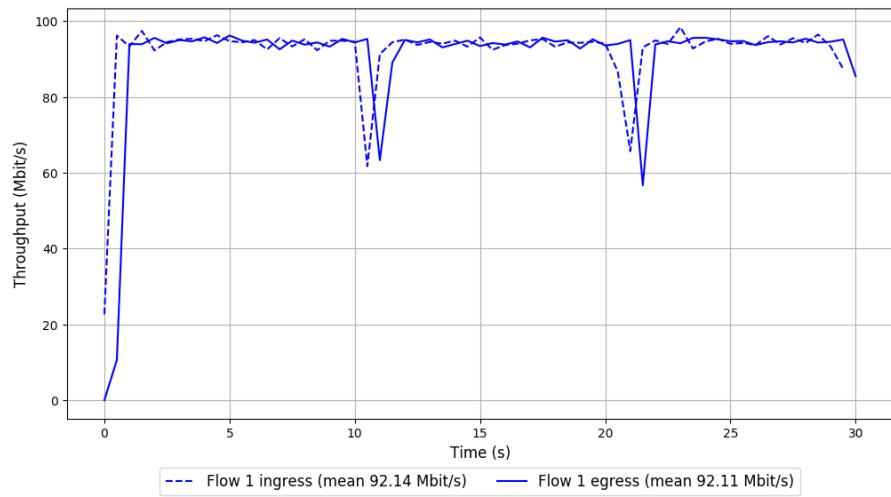


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-25 12:00:02
End at: 2019-01-25 12:00:32
Local clock offset: 2.277 ms
Remote clock offset: -0.252 ms

# Below is generated by plot.py at 2019-01-25 12:52:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.11 Mbit/s
95th percentile per-packet one-way delay: 78.160 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 92.11 Mbit/s
95th percentile per-packet one-way delay: 78.160 ms
Loss rate: 0.28%
```

Run 4: Report of FillP-Sheep — Data Link

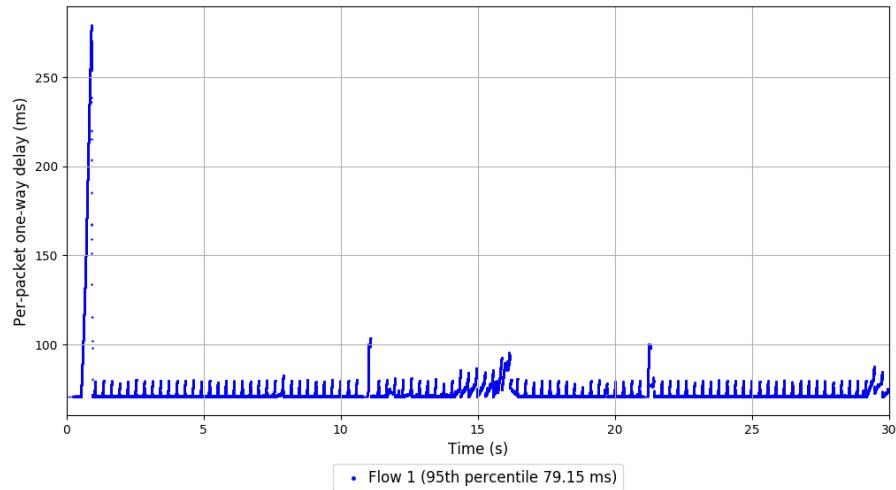
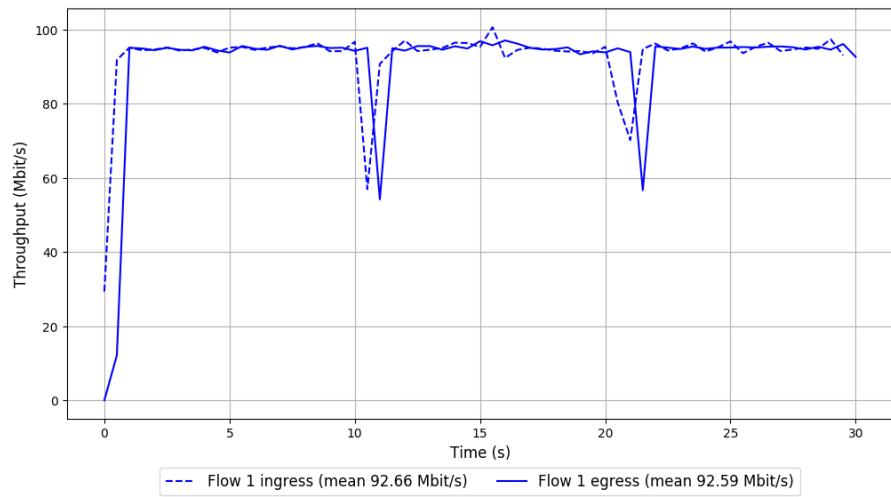


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-25 12:26:00
End at: 2019-01-25 12:26:30
Local clock offset: 1.106 ms
Remote clock offset: -2.172 ms

# Below is generated by plot.py at 2019-01-25 12:52:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.59 Mbit/s
95th percentile per-packet one-way delay: 79.146 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 92.59 Mbit/s
95th percentile per-packet one-way delay: 79.146 ms
Loss rate: 0.29%
```

Run 5: Report of FillP-Sheep — Data Link

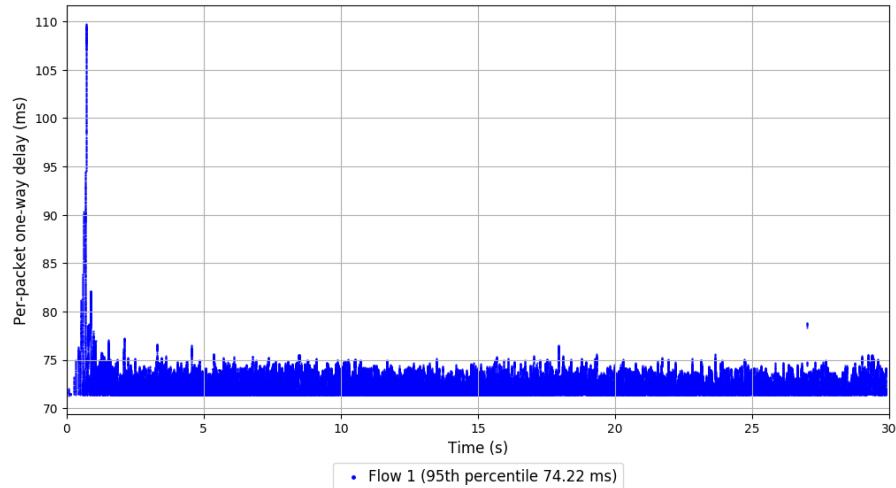
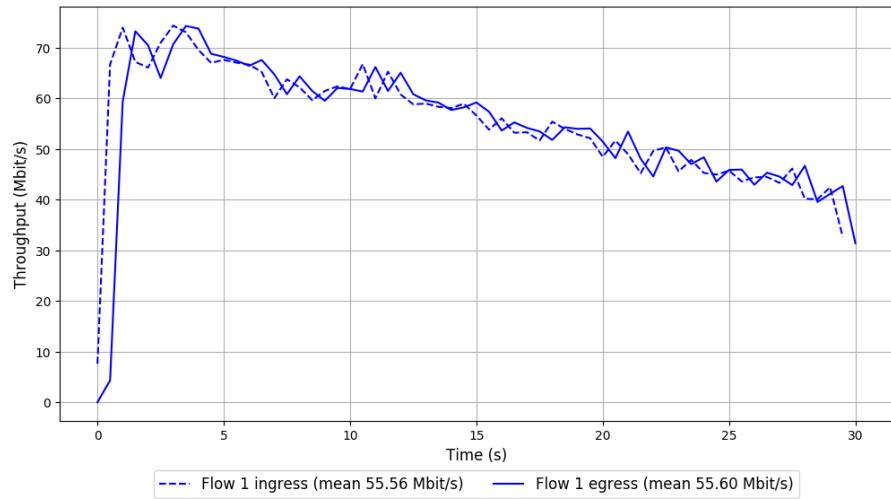


Run 1: Statistics of Indigo

```
Start at: 2019-01-25 10:55:33
End at: 2019-01-25 10:56:03
Local clock offset: 0.416 ms
Remote clock offset: -8.267 ms

# Below is generated by plot.py at 2019-01-25 12:52:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.60 Mbit/s
95th percentile per-packet one-way delay: 74.224 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 55.60 Mbit/s
95th percentile per-packet one-way delay: 74.224 ms
Loss rate: 0.19%
```

Run 1: Report of Indigo — Data Link

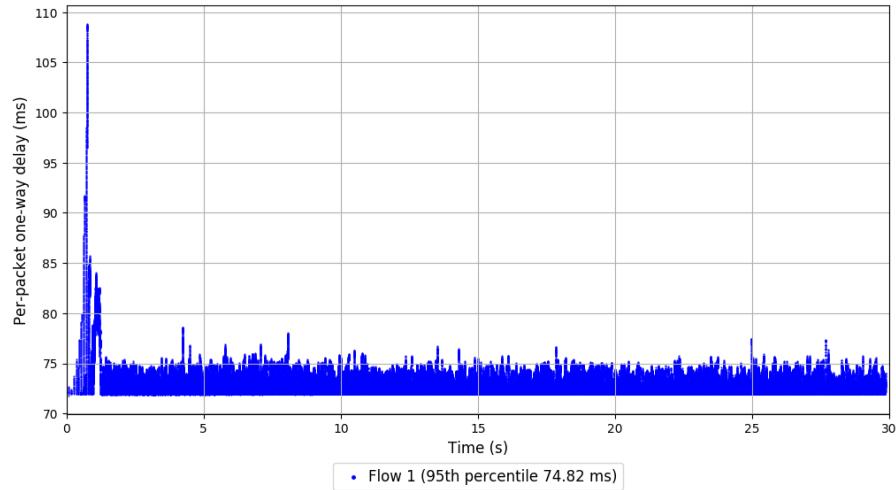
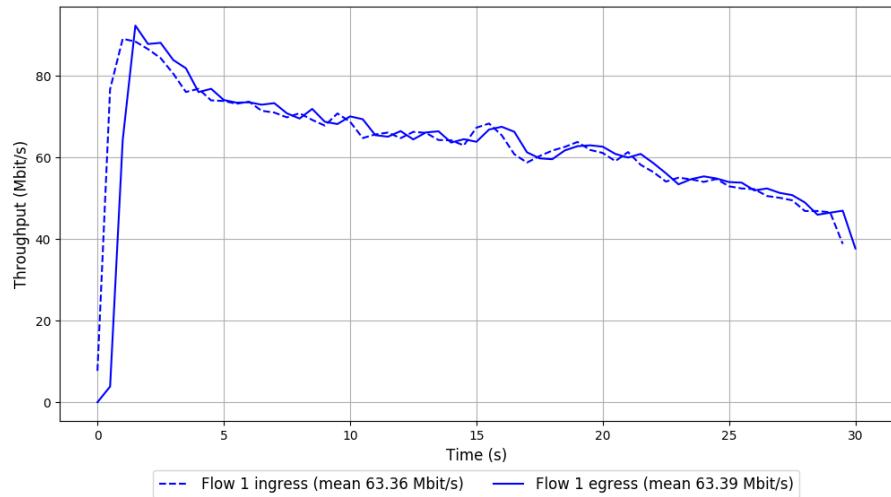


Run 2: Statistics of Indigo

```
Start at: 2019-01-25 11:20:36
End at: 2019-01-25 11:21:06
Local clock offset: -0.766 ms
Remote clock offset: -2.813 ms

# Below is generated by plot.py at 2019-01-25 12:52:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.39 Mbit/s
95th percentile per-packet one-way delay: 74.822 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 63.39 Mbit/s
95th percentile per-packet one-way delay: 74.822 ms
Loss rate: 0.23%
```

Run 2: Report of Indigo — Data Link

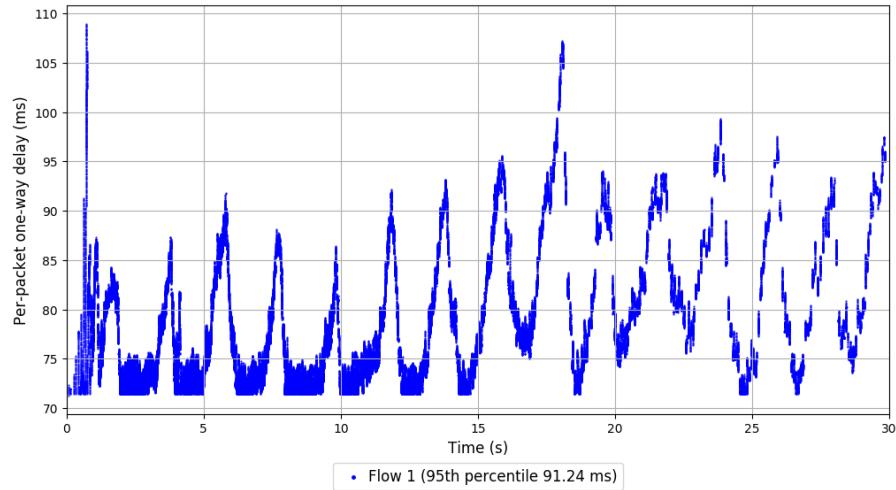
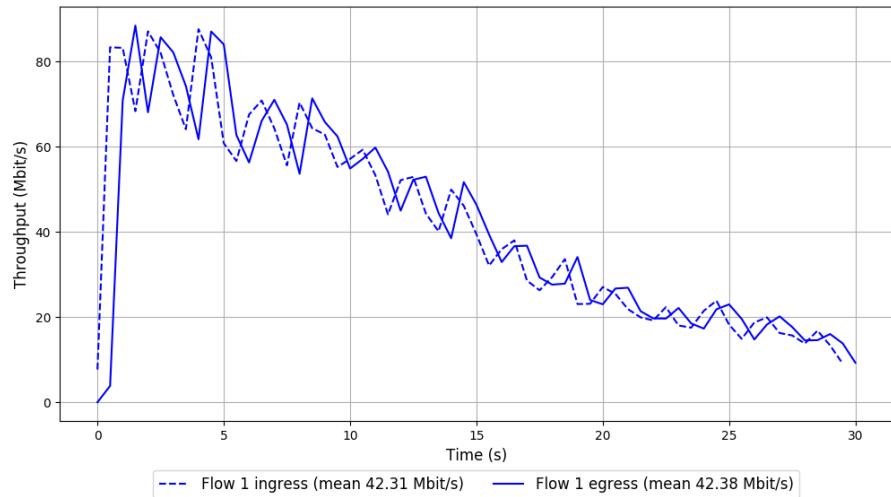


Run 3: Statistics of Indigo

```
Start at: 2019-01-25 11:45:53
End at: 2019-01-25 11:46:24
Local clock offset: 2.737 ms
Remote clock offset: -1.61 ms

# Below is generated by plot.py at 2019-01-25 12:52:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.38 Mbit/s
95th percentile per-packet one-way delay: 91.240 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 42.38 Mbit/s
95th percentile per-packet one-way delay: 91.240 ms
Loss rate: 0.09%
```

Run 3: Report of Indigo — Data Link

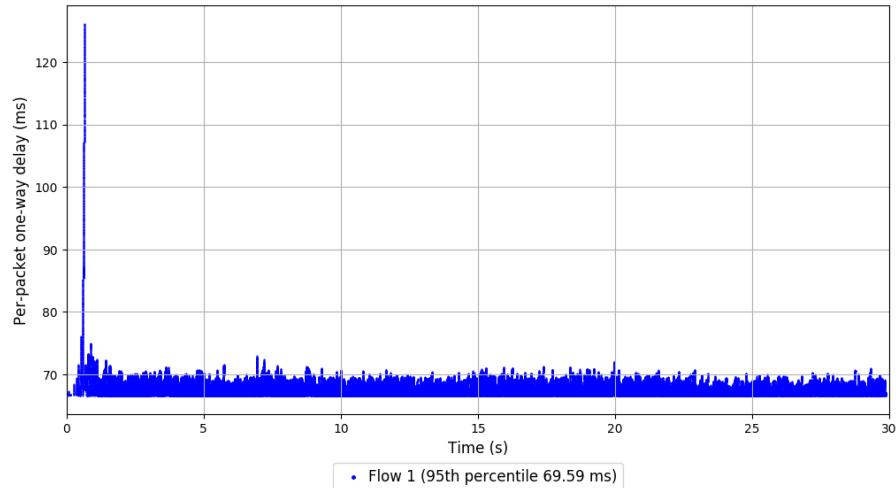
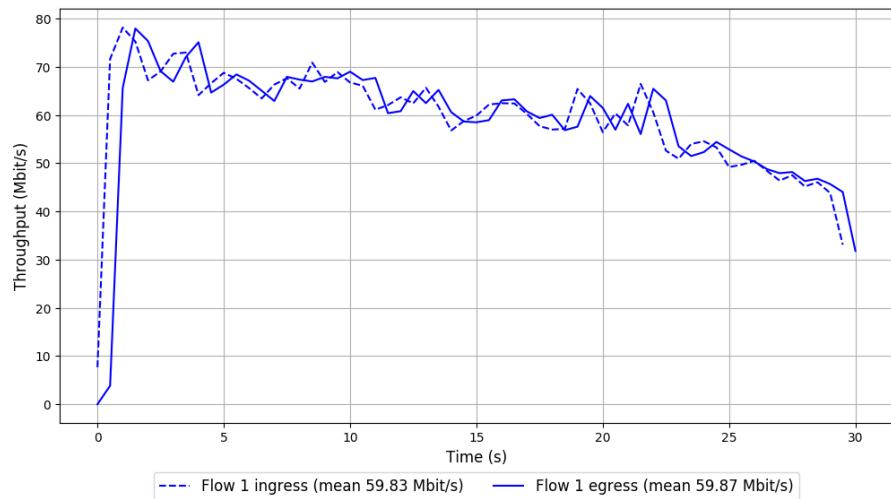


Run 4: Statistics of Indigo

```
Start at: 2019-01-25 12:11:13
End at: 2019-01-25 12:11:43
Local clock offset: -1.635 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-01-25 12:52:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.87 Mbit/s
95th percentile per-packet one-way delay: 69.586 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.87 Mbit/s
95th percentile per-packet one-way delay: 69.586 ms
Loss rate: 0.19%
```

Run 4: Report of Indigo — Data Link

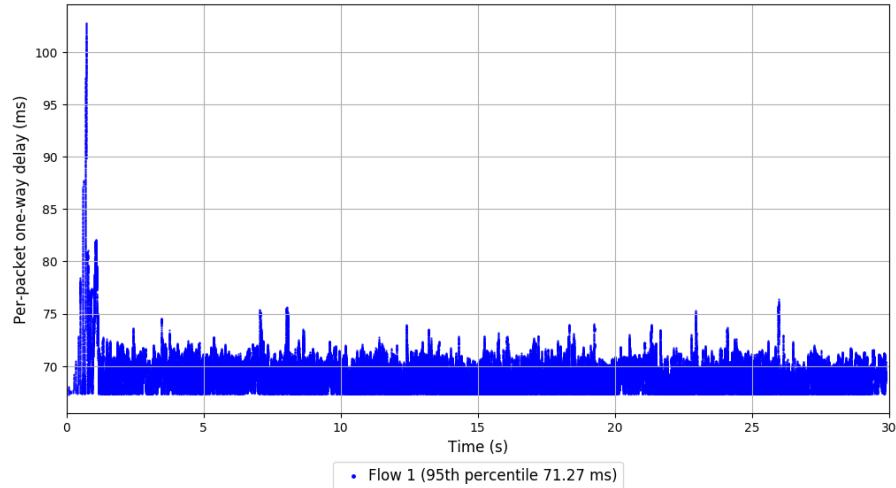
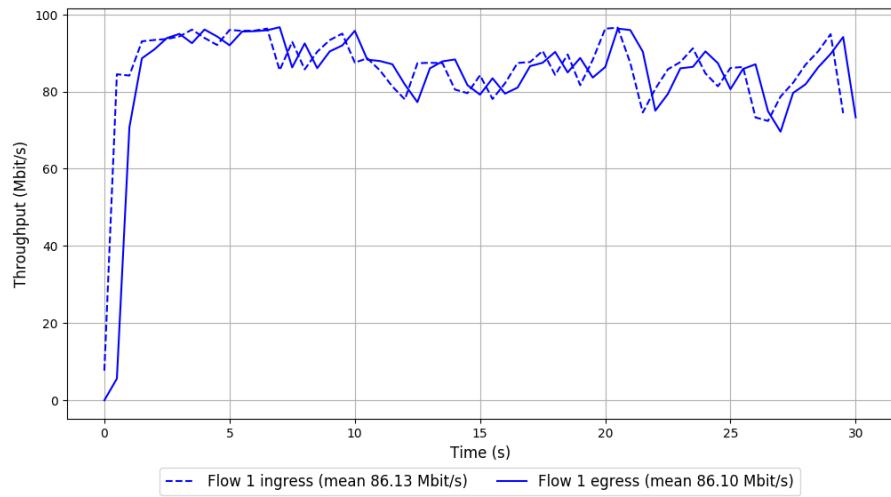


Run 5: Statistics of Indigo

```
Start at: 2019-01-25 12:37:04
End at: 2019-01-25 12:37:34
Local clock offset: -1.972 ms
Remote clock offset: -1.515 ms

# Below is generated by plot.py at 2019-01-25 12:53:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.10 Mbit/s
95th percentile per-packet one-way delay: 71.271 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 86.10 Mbit/s
95th percentile per-packet one-way delay: 71.271 ms
Loss rate: 0.28%
```

Run 5: Report of Indigo — Data Link

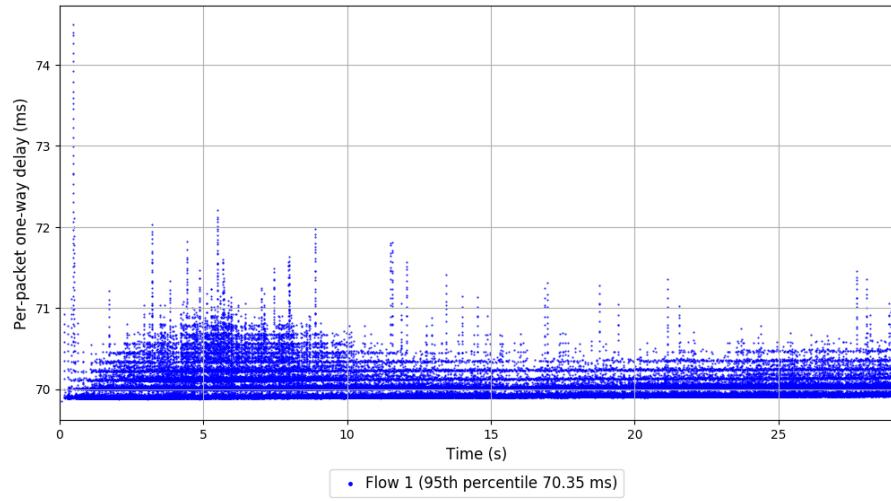
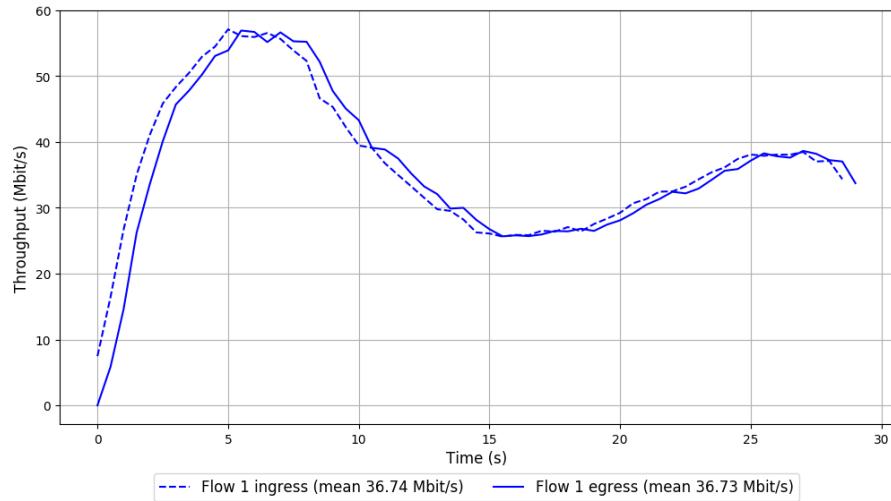


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 10:49:43
End at: 2019-01-25 10:50:13
Local clock offset: -3.2 ms
Remote clock offset: -10.697 ms

# Below is generated by plot.py at 2019-01-25 12:53:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.73 Mbit/s
95th percentile per-packet one-way delay: 70.354 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 36.73 Mbit/s
95th percentile per-packet one-way delay: 70.354 ms
Loss rate: 0.28%
```

Run 1: Report of Indigo-MusesC3 — Data Link

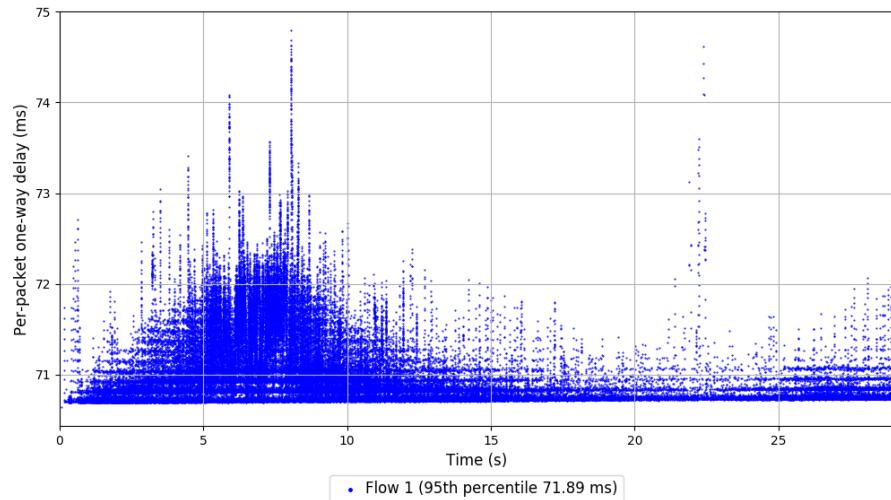
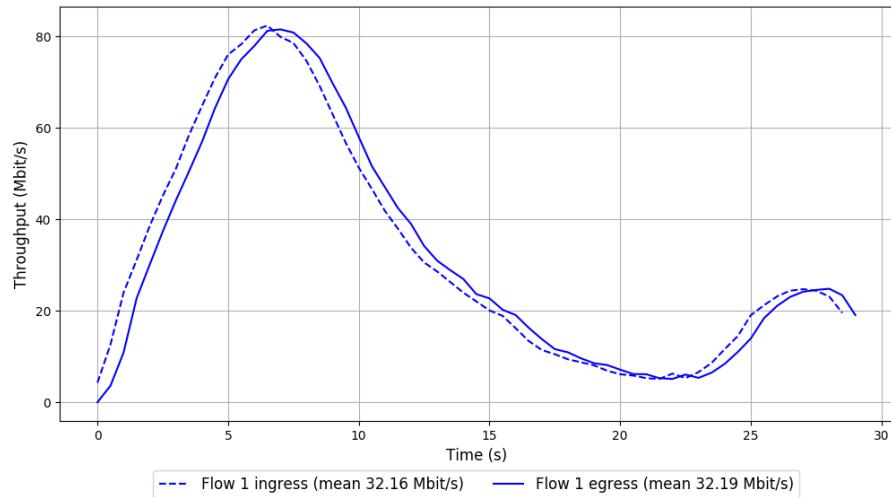


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 11:14:52
End at: 2019-01-25 11:15:22
Local clock offset: -3.669 ms
Remote clock offset: -6.698 ms

# Below is generated by plot.py at 2019-01-25 12:53:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 71.889 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 71.889 ms
Loss rate: 0.19%
```

Run 2: Report of Indigo-MusesC3 — Data Link

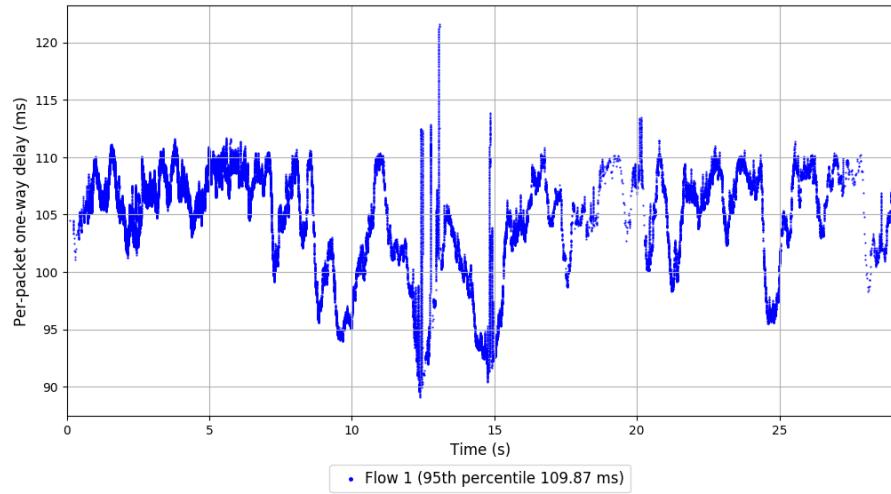
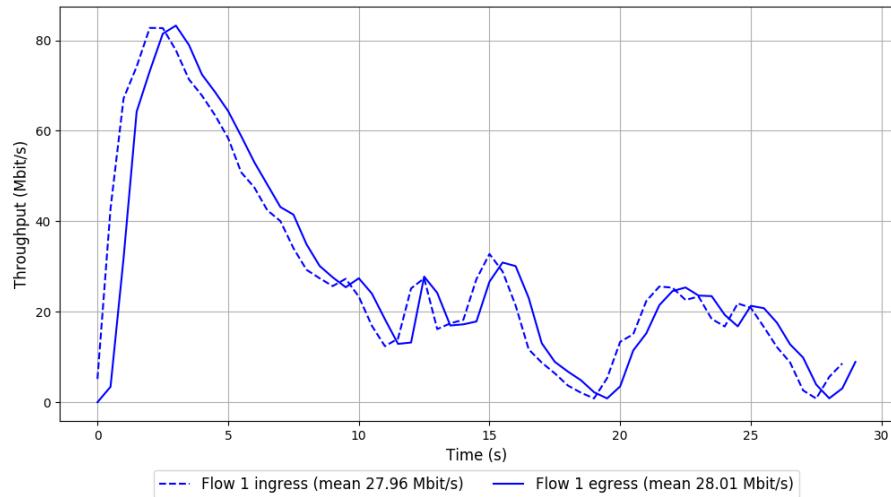


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 11:40:01
End at: 2019-01-25 11:40:31
Local clock offset: -0.548 ms
Remote clock offset: -8.644 ms

# Below is generated by plot.py at 2019-01-25 12:53:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.01 Mbit/s
95th percentile per-packet one-way delay: 109.870 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 28.01 Mbit/s
95th percentile per-packet one-way delay: 109.870 ms
Loss rate: 0.21%
```

Run 3: Report of Indigo-MusesC3 — Data Link

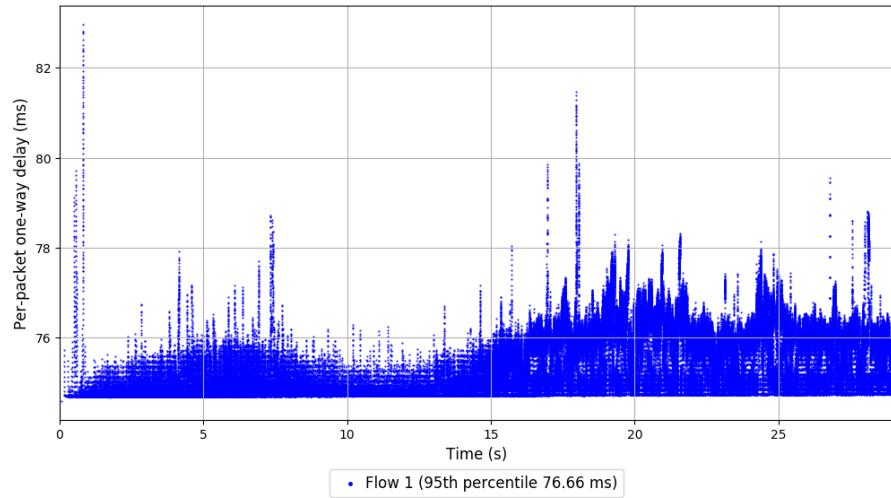
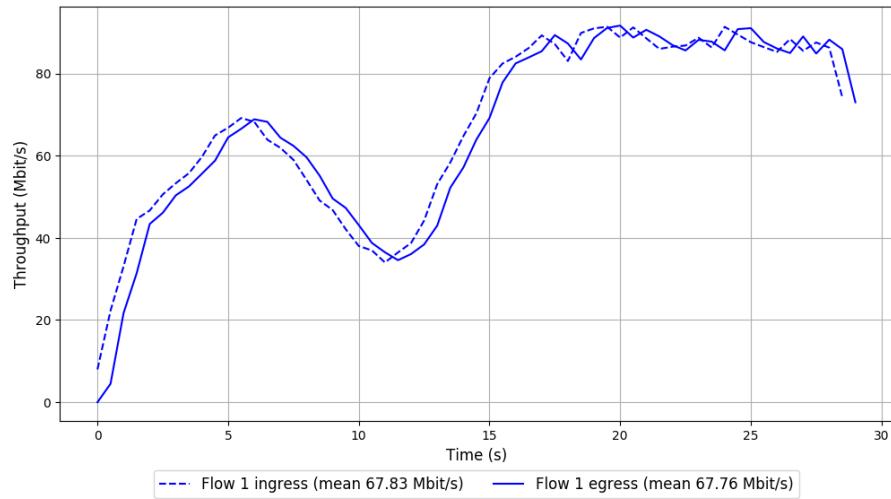


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 12:05:04
End at: 2019-01-25 12:05:34
Local clock offset: 2.566 ms
Remote clock offset: -3.186 ms

# Below is generated by plot.py at 2019-01-25 12:53:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.76 Mbit/s
95th percentile per-packet one-way delay: 76.658 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 67.76 Mbit/s
95th percentile per-packet one-way delay: 76.658 ms
Loss rate: 0.36%
```

Run 4: Report of Indigo-MusesC3 — Data Link

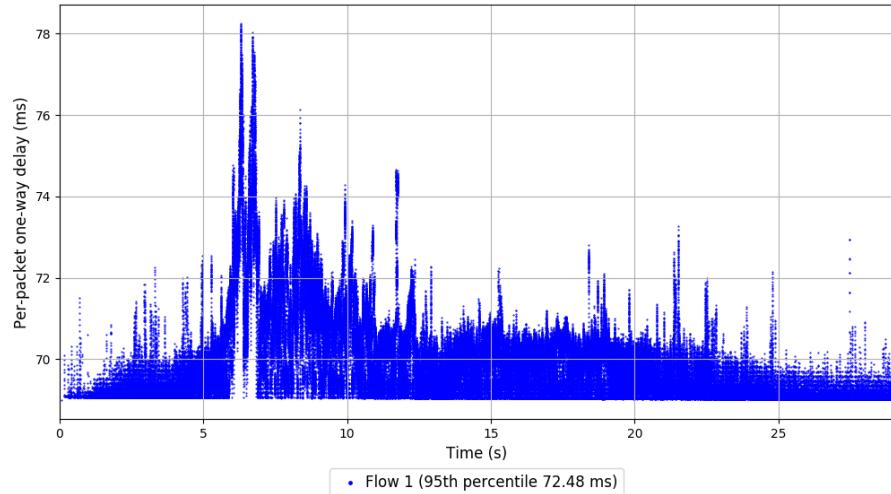
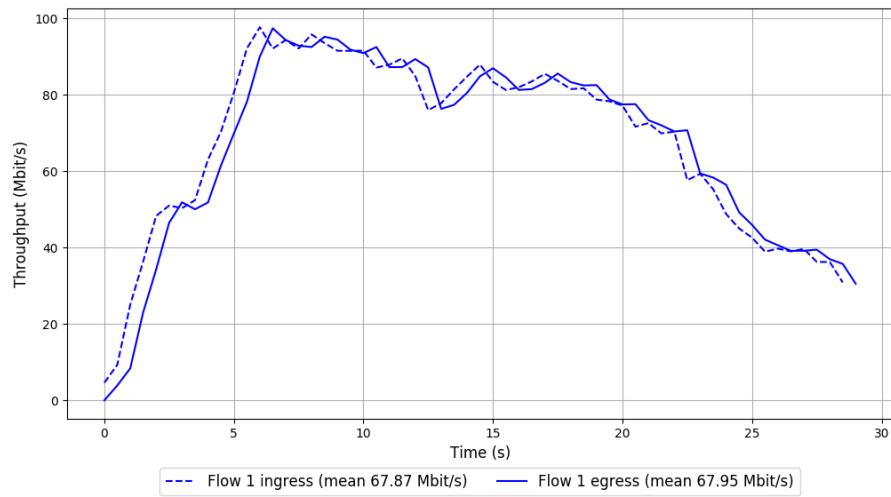


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 12:30:55
End at: 2019-01-25 12:31:25
Local clock offset: -0.19 ms
Remote clock offset: -0.858 ms

# Below is generated by plot.py at 2019-01-25 12:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.95 Mbit/s
95th percentile per-packet one-way delay: 72.476 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 67.95 Mbit/s
95th percentile per-packet one-way delay: 72.476 ms
Loss rate: 0.14%
```

Run 5: Report of Indigo-MusesC3 — Data Link

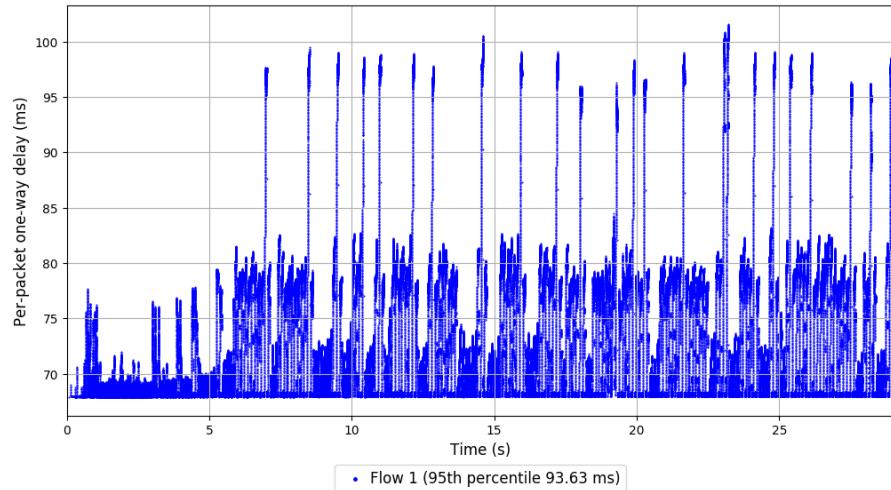
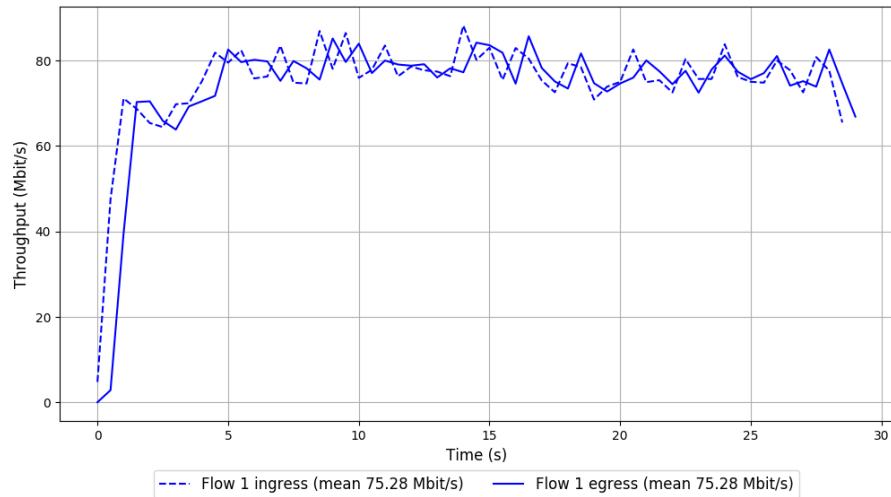


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 10:47:24
End at: 2019-01-25 10:47:54
Local clock offset: -2.8 ms
Remote clock offset: -6.738 ms

# Below is generated by plot.py at 2019-01-25 12:53:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.28 Mbit/s
95th percentile per-packet one-way delay: 93.628 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 75.28 Mbit/s
95th percentile per-packet one-way delay: 93.628 ms
Loss rate: 0.28%
```

Run 1: Report of Indigo-MusesC5 — Data Link

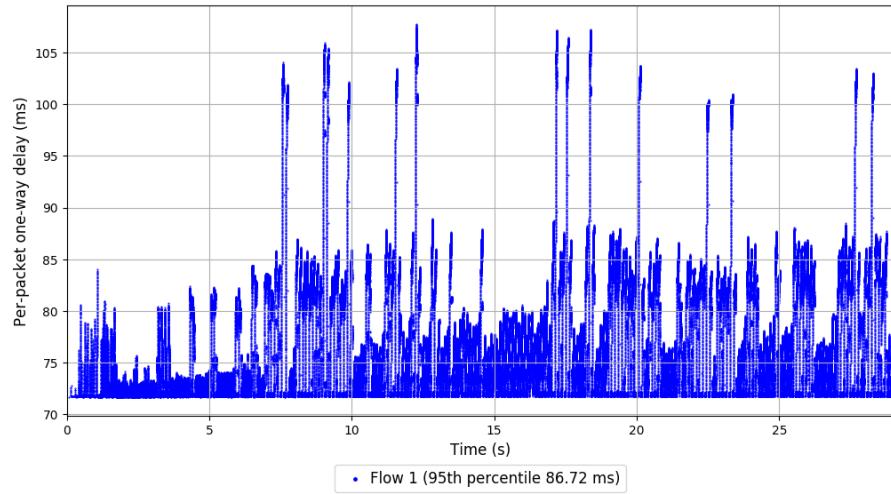
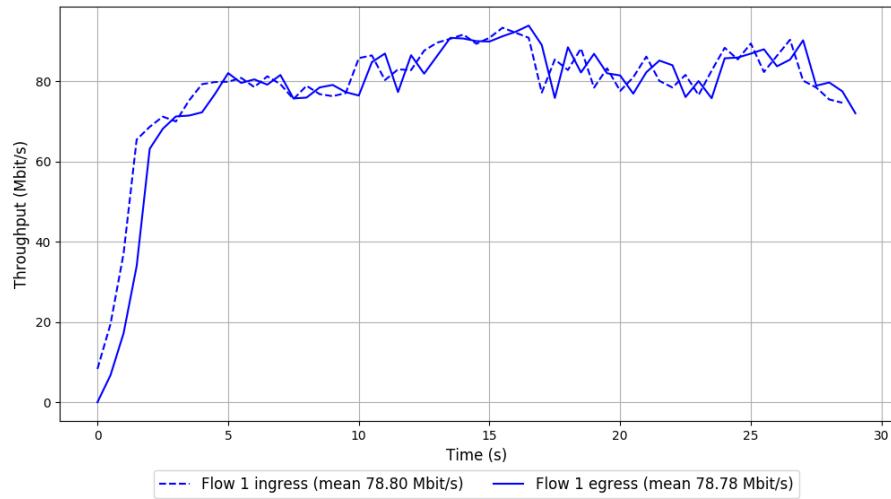


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 11:12:26
End at: 2019-01-25 11:12:56
Local clock offset: -0.583 ms
Remote clock offset: -4.799 ms

# Below is generated by plot.py at 2019-01-25 12:53:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.78 Mbit/s
95th percentile per-packet one-way delay: 86.723 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 78.78 Mbit/s
95th percentile per-packet one-way delay: 86.723 ms
Loss rate: 0.30%
```

Run 2: Report of Indigo-MusesC5 — Data Link

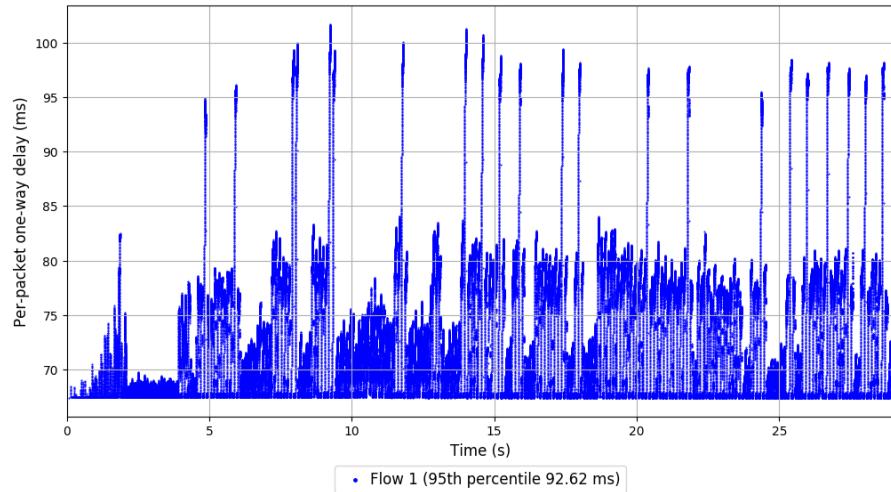
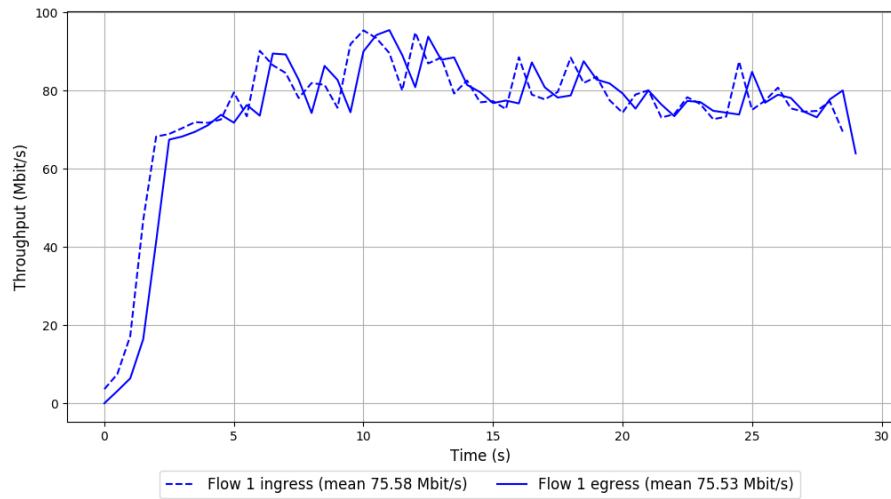


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 11:37:29
End at: 2019-01-25 11:37:59
Local clock offset: -1.685 ms
Remote clock offset: -1.841 ms

# Below is generated by plot.py at 2019-01-25 12:53:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.53 Mbit/s
95th percentile per-packet one-way delay: 92.624 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 75.53 Mbit/s
95th percentile per-packet one-way delay: 92.624 ms
Loss rate: 0.33%
```

Run 3: Report of Indigo-MusesC5 — Data Link

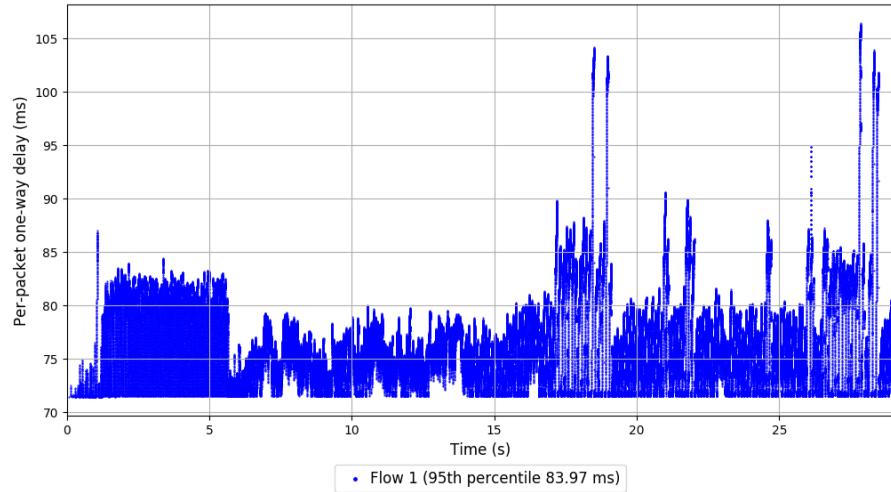
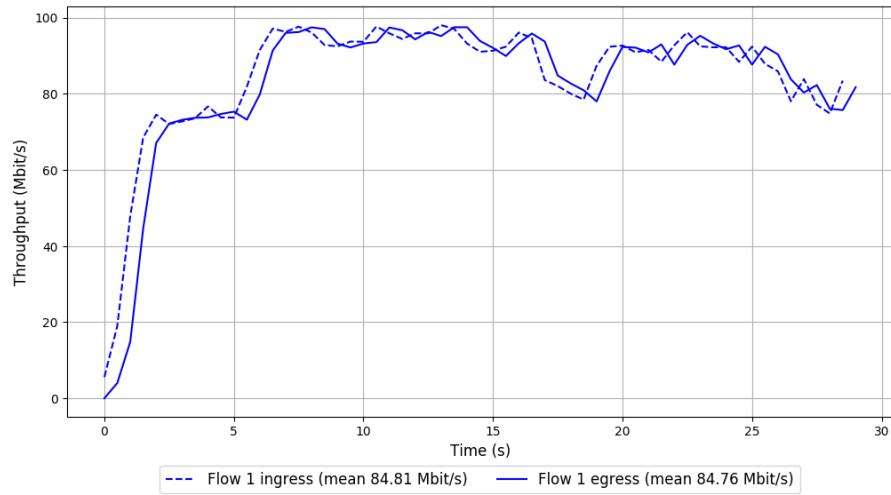


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 12:02:31
End at: 2019-01-25 12:03:01
Local clock offset: 1.594 ms
Remote clock offset: -2.564 ms

# Below is generated by plot.py at 2019-01-25 12:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.76 Mbit/s
95th percentile per-packet one-way delay: 83.970 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 84.76 Mbit/s
95th percentile per-packet one-way delay: 83.970 ms
Loss rate: 0.31%
```

Run 4: Report of Indigo-MusesC5 — Data Link

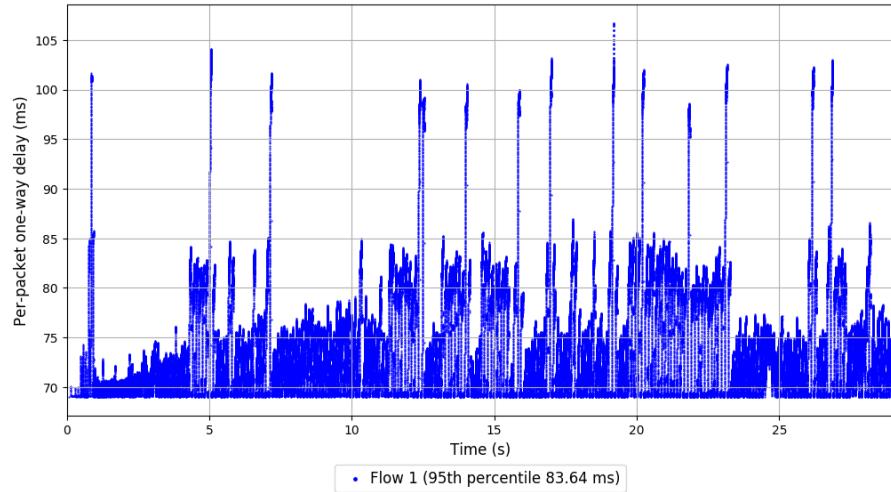
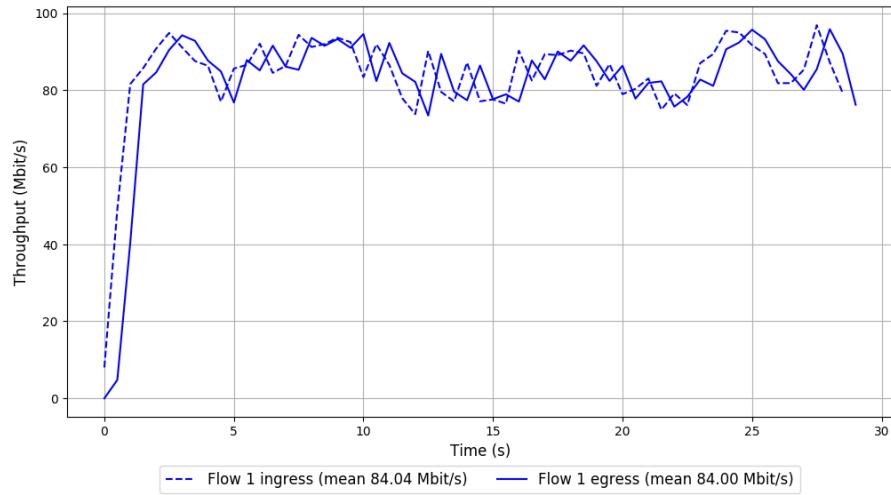


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 12:28:24
End at: 2019-01-25 12:28:54
Local clock offset: 0.783 ms
Remote clock offset: -0.903 ms

# Below is generated by plot.py at 2019-01-25 12:53:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.00 Mbit/s
95th percentile per-packet one-way delay: 83.635 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 84.00 Mbit/s
95th percentile per-packet one-way delay: 83.635 ms
Loss rate: 0.32%
```

Run 5: Report of Indigo-MusesC5 — Data Link

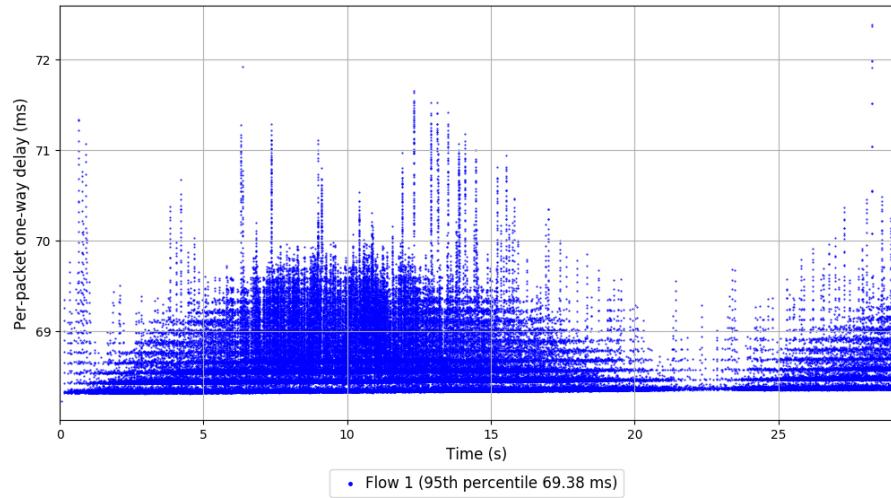
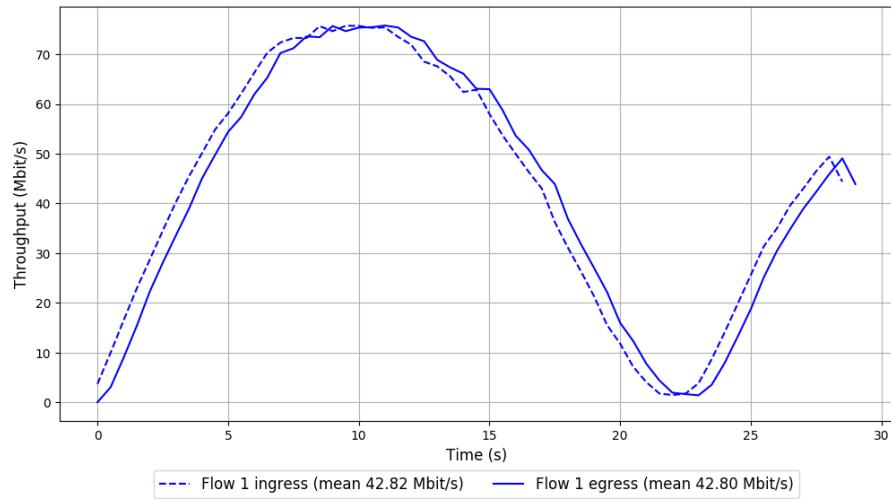


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 11:05:30
End at: 2019-01-25 11:06:00
Local clock offset: -1.717 ms
Remote clock offset: -6.574 ms

# Below is generated by plot.py at 2019-01-25 12:53:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.80 Mbit/s
95th percentile per-packet one-way delay: 69.377 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 42.80 Mbit/s
95th percentile per-packet one-way delay: 69.377 ms
Loss rate: 0.31%
```

Run 1: Report of Indigo-MusesD — Data Link

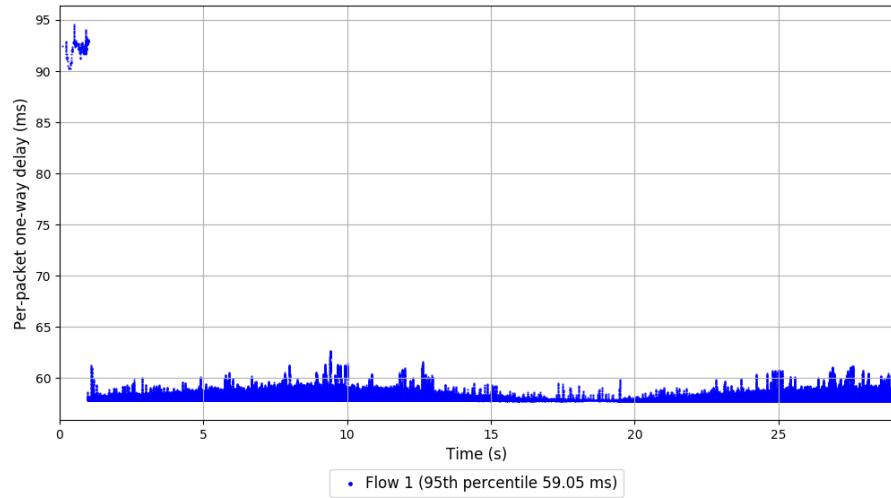
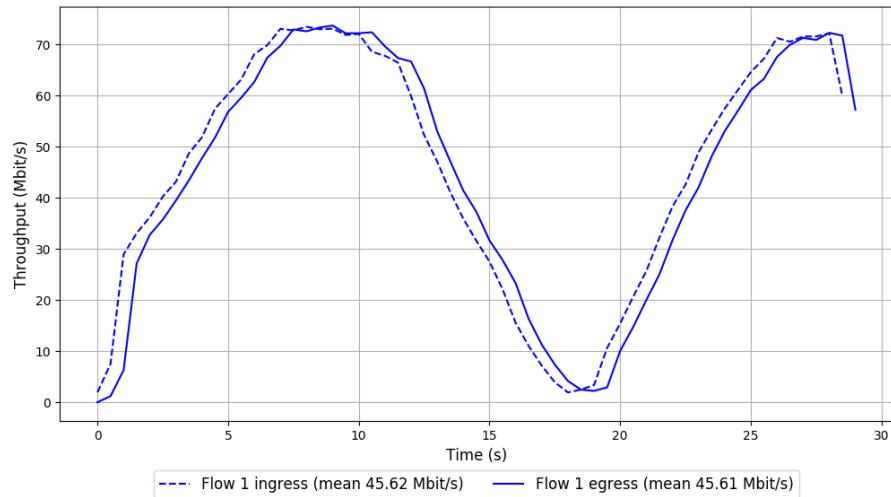


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 11:30:17
End at: 2019-01-25 11:30:47
Local clock offset: -3.323 ms
Remote clock offset: 8.527 ms

# Below is generated by plot.py at 2019-01-25 12:53:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.61 Mbit/s
95th percentile per-packet one-way delay: 59.055 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 45.61 Mbit/s
95th percentile per-packet one-way delay: 59.055 ms
Loss rate: 0.44%
```

Run 2: Report of Indigo-MusesD — Data Link

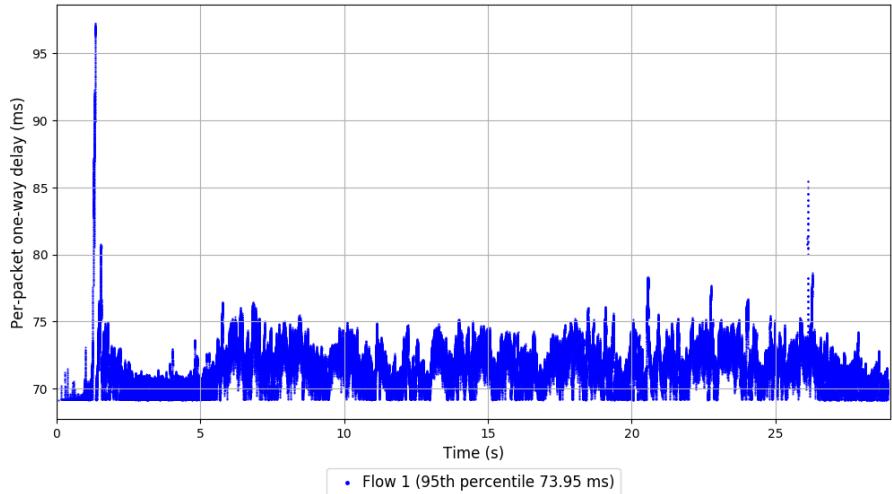
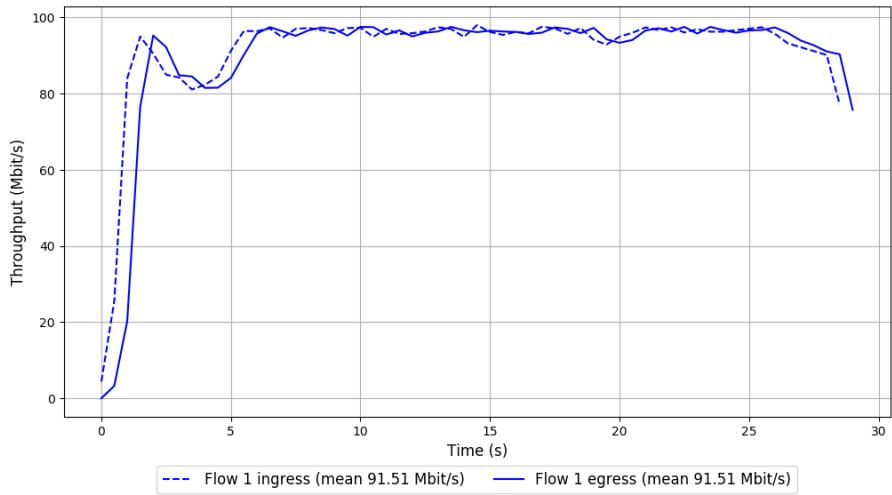


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 11:55:16
End at: 2019-01-25 11:55:46
Local clock offset: 1.477 ms
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2019-01-25 12:54:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.51 Mbit/s
95th percentile per-packet one-way delay: 73.954 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 91.51 Mbit/s
95th percentile per-packet one-way delay: 73.954 ms
Loss rate: 0.26%
```

Run 3: Report of Indigo-MusesD — Data Link

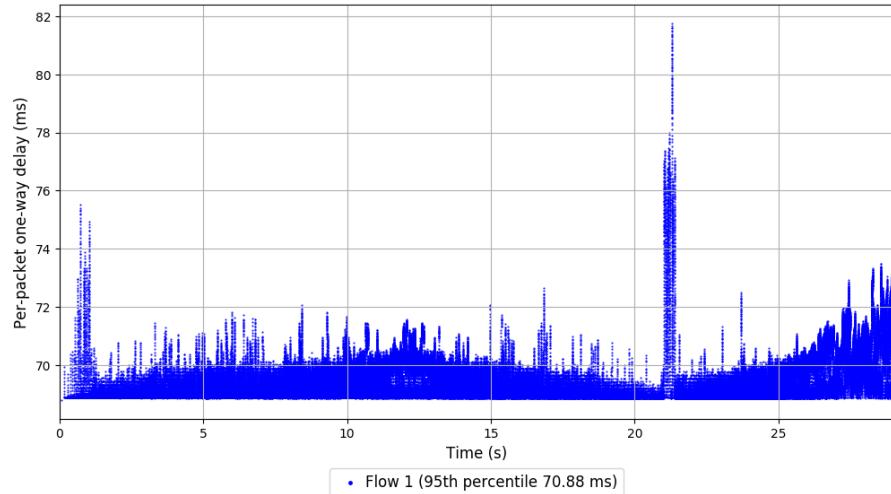
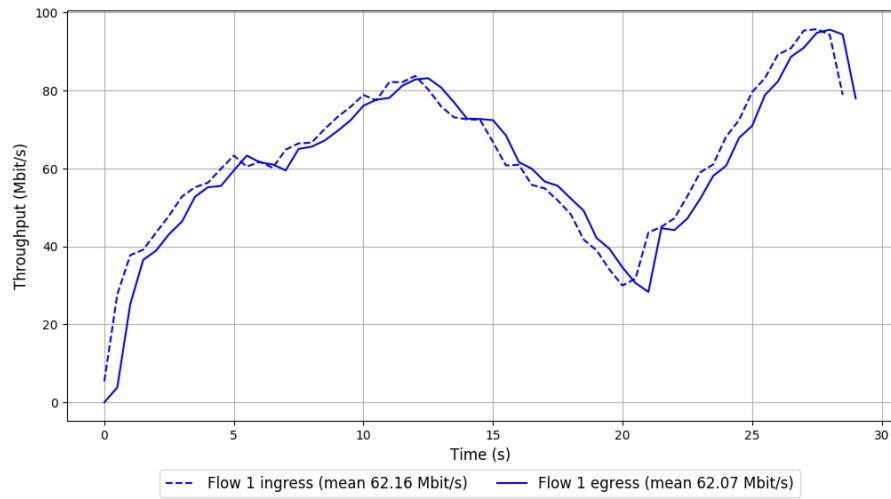


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 12:21:09
End at: 2019-01-25 12:21:39
Local clock offset: 1.127 ms
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2019-01-25 12:54:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.07 Mbit/s
95th percentile per-packet one-way delay: 70.881 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 62.07 Mbit/s
95th percentile per-packet one-way delay: 70.881 ms
Loss rate: 0.40%
```

Run 4: Report of Indigo-MusesD — Data Link

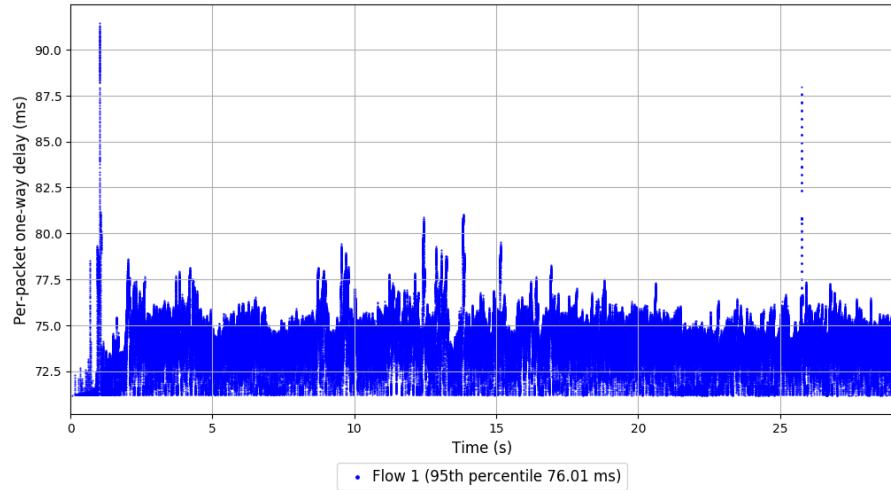
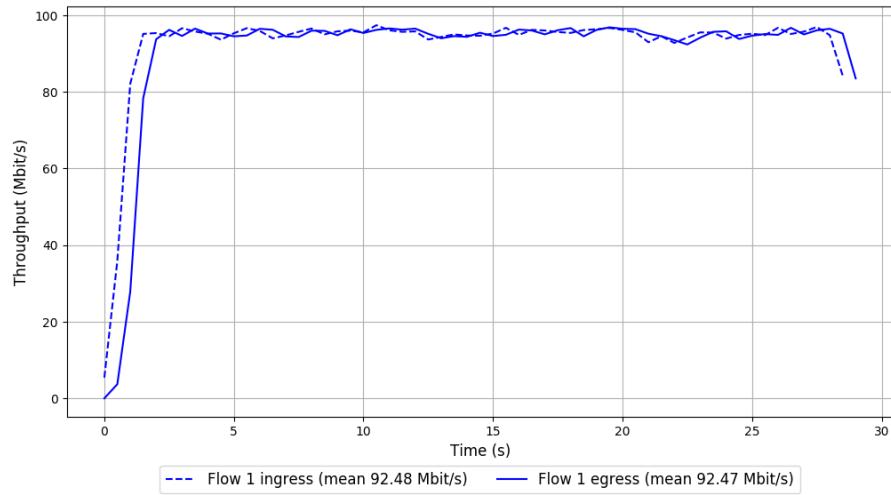


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 12:46:57
End at: 2019-01-25 12:47:27
Local clock offset: 2.036 ms
Remote clock offset: -3.098 ms

# Below is generated by plot.py at 2019-01-25 12:54:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.47 Mbit/s
95th percentile per-packet one-way delay: 76.006 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 92.47 Mbit/s
95th percentile per-packet one-way delay: 76.006 ms
Loss rate: 0.27%
```

Run 5: Report of Indigo-MusesD — Data Link

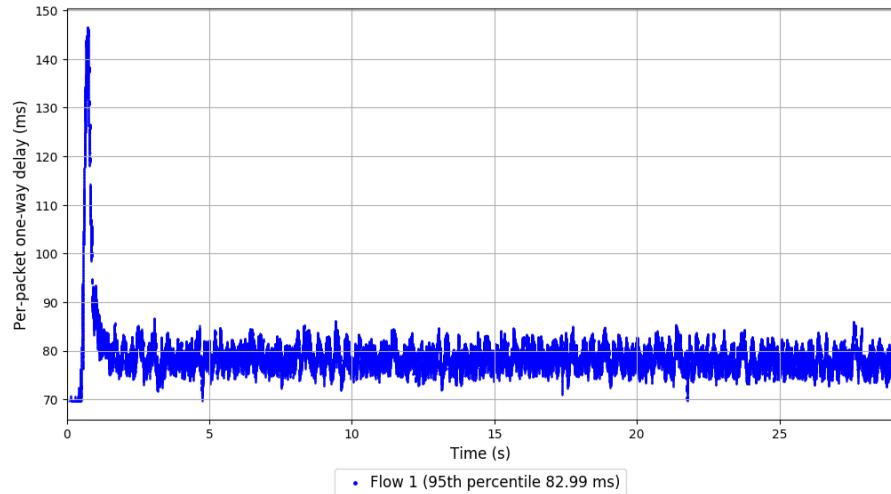
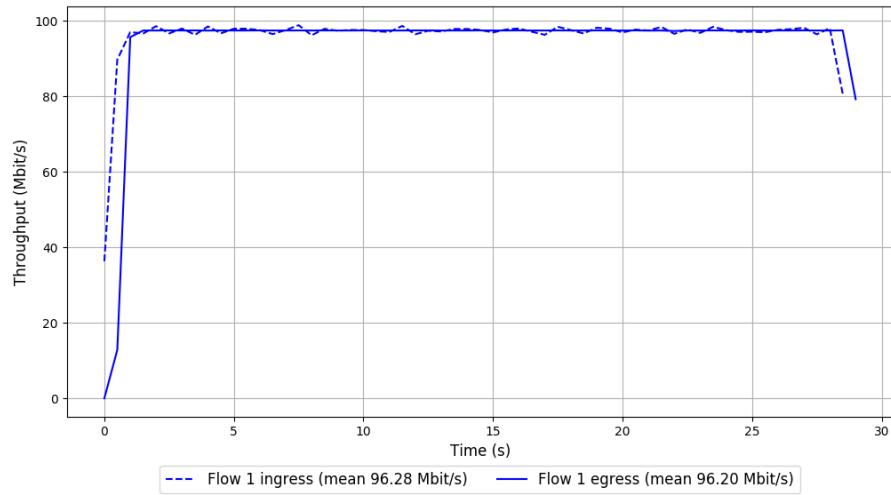


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 11:01:22
End at: 2019-01-25 11:01:52
Local clock offset: -0.464 ms
Remote clock offset: -7.071 ms

# Below is generated by plot.py at 2019-01-25 12:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 82.989 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 82.989 ms
Loss rate: 0.35%
```

Run 1: Report of Indigo-MusesT — Data Link

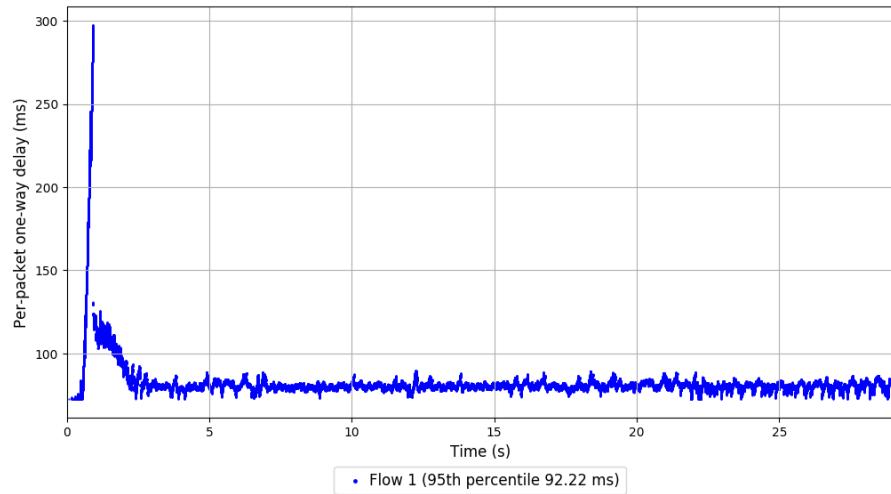
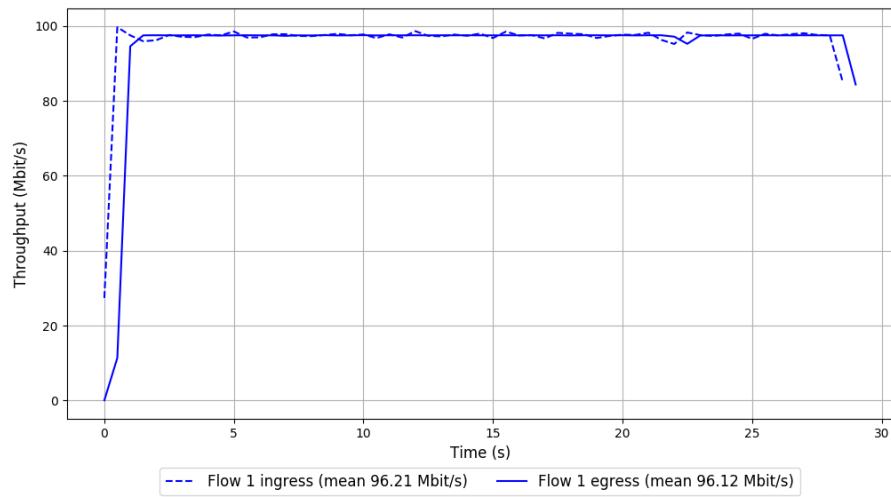


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 11:26:22
End at: 2019-01-25 11:26:52
Local clock offset: -0.851 ms
Remote clock offset: -4.983 ms

# Below is generated by plot.py at 2019-01-25 12:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 92.218 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 92.218 ms
Loss rate: 0.38%
```

Run 2: Report of Indigo-MusesT — Data Link

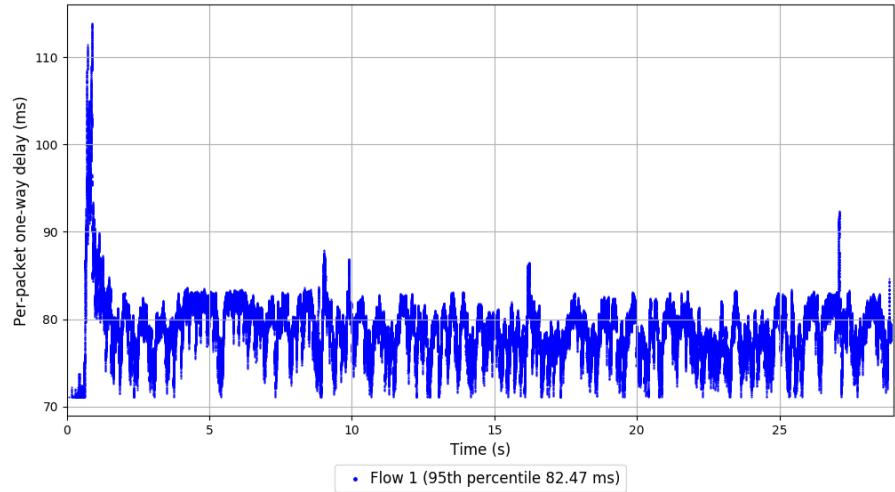
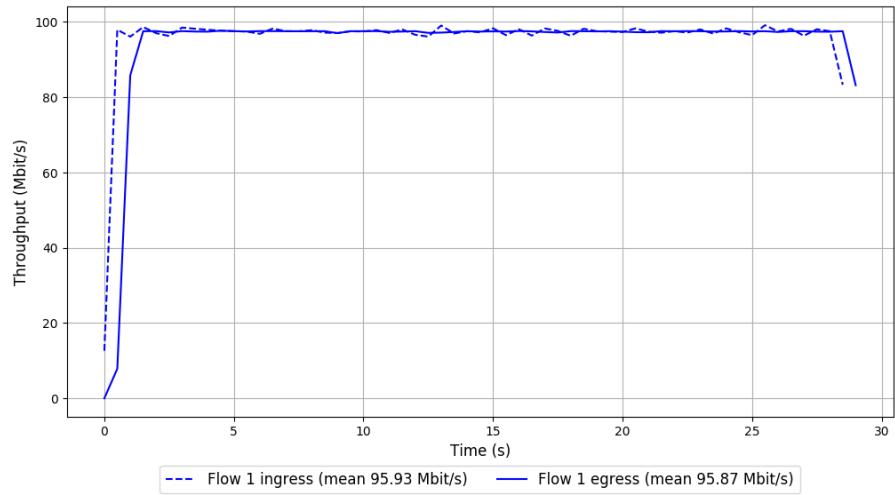


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 11:51:33
End at: 2019-01-25 11:52:03
Local clock offset: 1.458 ms
Remote clock offset: -2.003 ms

# Below is generated by plot.py at 2019-01-25 12:54:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 82.467 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 82.467 ms
Loss rate: 0.33%
```

Run 3: Report of Indigo-MusesT — Data Link

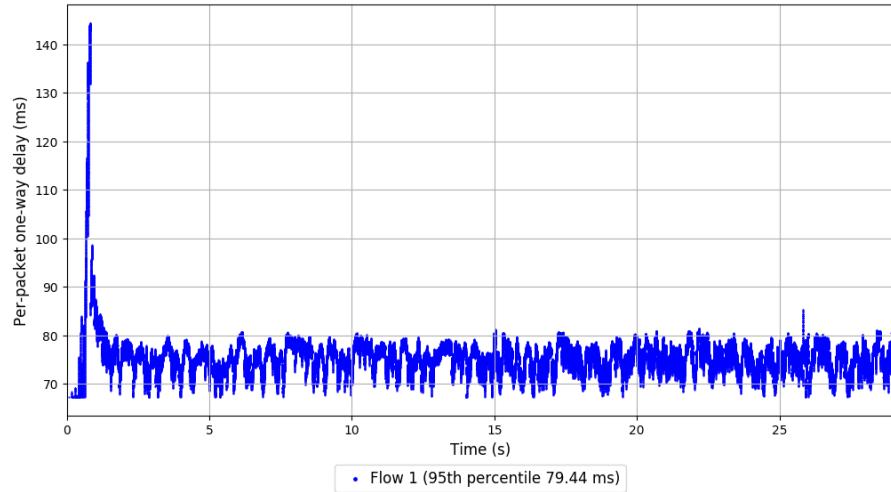
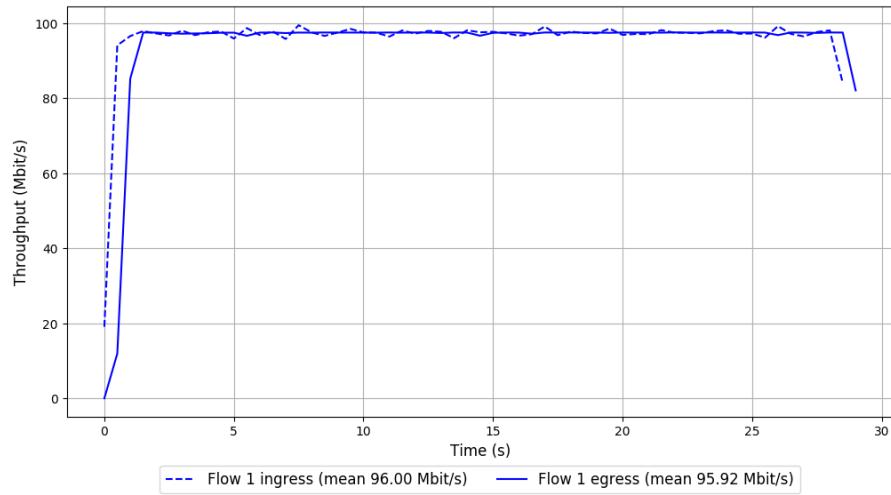


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 12:17:02
End at: 2019-01-25 12:17:32
Local clock offset: -2.033 ms
Remote clock offset: -1.304 ms

# Below is generated by plot.py at 2019-01-25 12:54:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 79.443 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 79.443 ms
Loss rate: 0.34%
```

Run 4: Report of Indigo-MusesT — Data Link

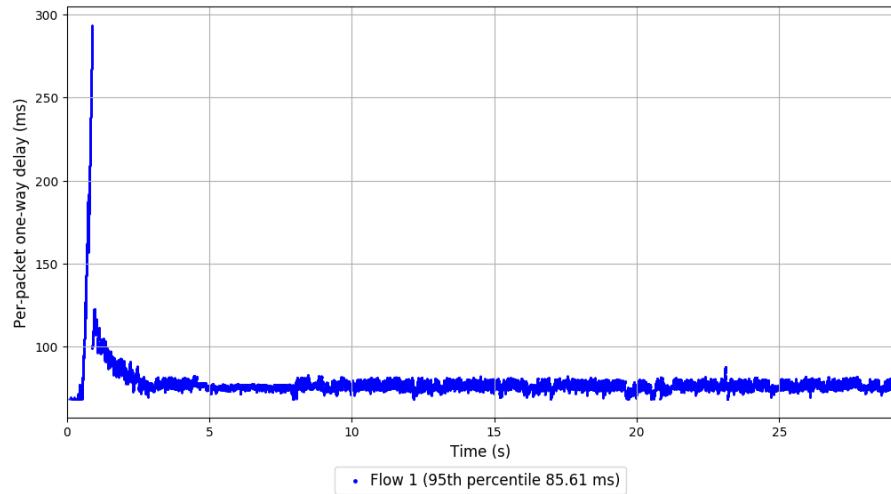
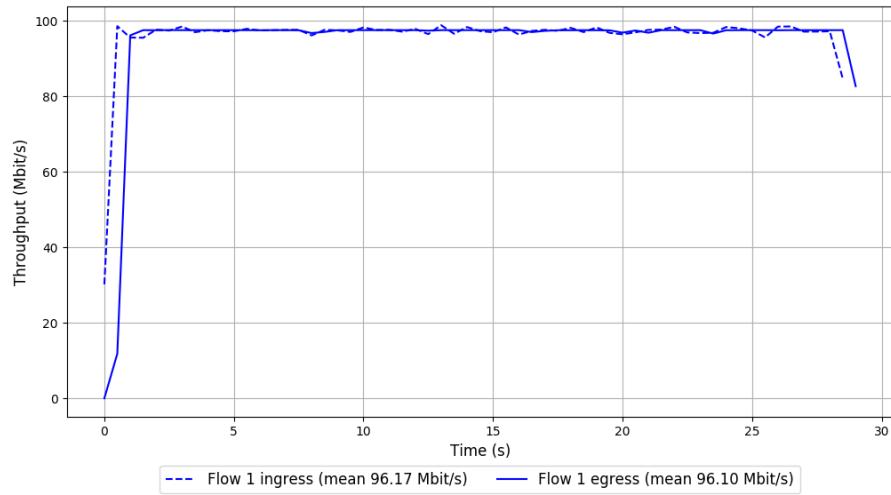


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 12:42:55
End at: 2019-01-25 12:43:25
Local clock offset: 1.1 ms
Remote clock offset: -0.527 ms

# Below is generated by plot.py at 2019-01-25 12:54:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 85.605 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 85.605 ms
Loss rate: 0.34%
```

Run 5: Report of Indigo-MusesT — Data Link

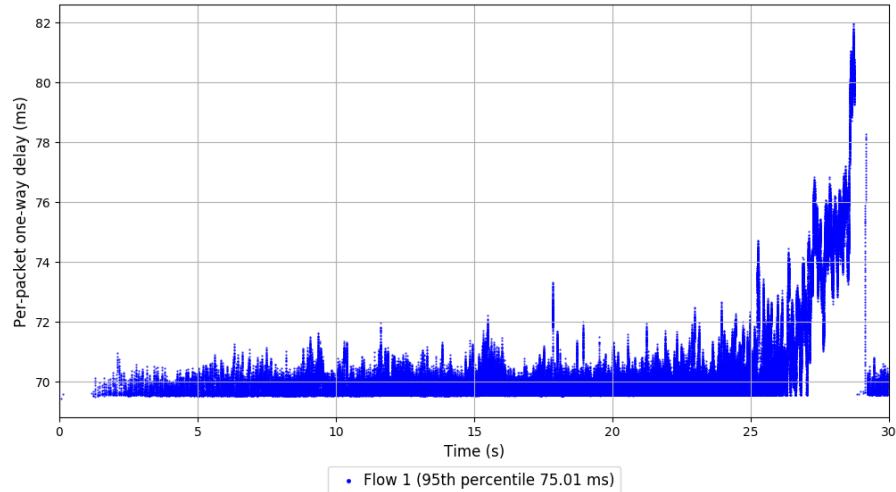
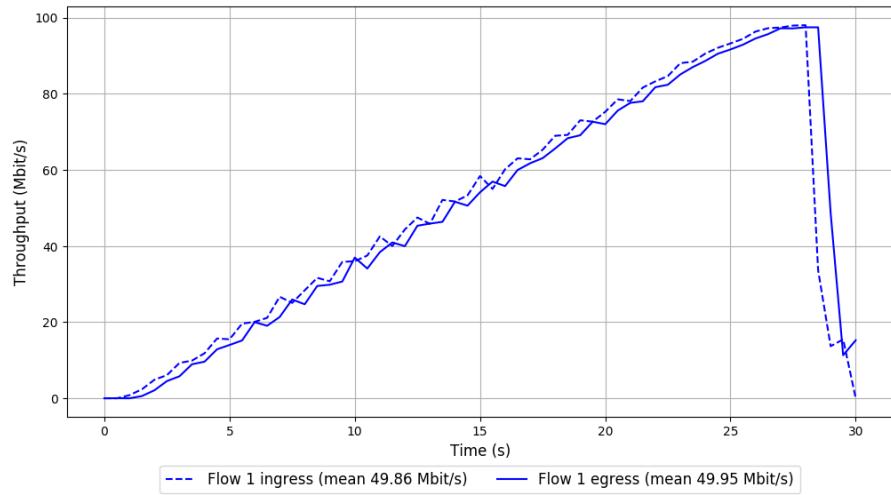


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-25 10:48:33
End at: 2019-01-25 10:49:03
Local clock offset: -2.919 ms
Remote clock offset: -8.88 ms

# Below is generated by plot.py at 2019-01-25 12:54:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.95 Mbit/s
95th percentile per-packet one-way delay: 75.006 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 49.95 Mbit/s
95th percentile per-packet one-way delay: 75.006 ms
Loss rate: 0.09%
```

Run 1: Report of LEDBAT — Data Link

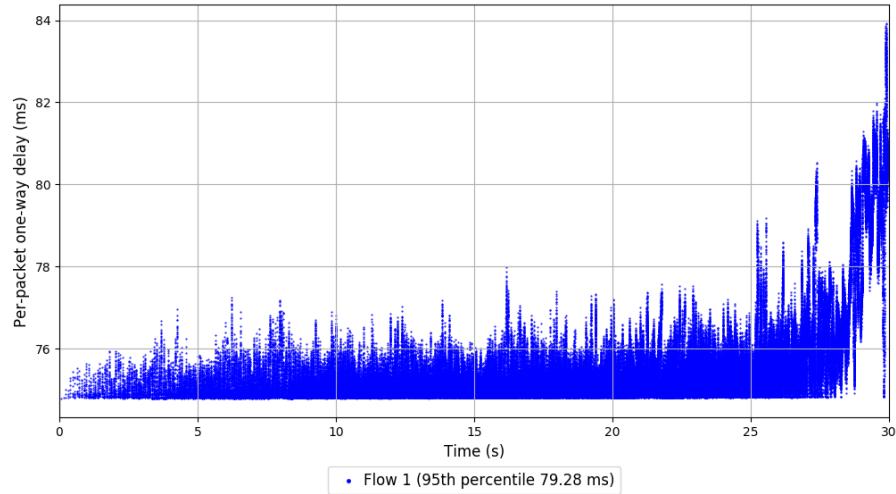
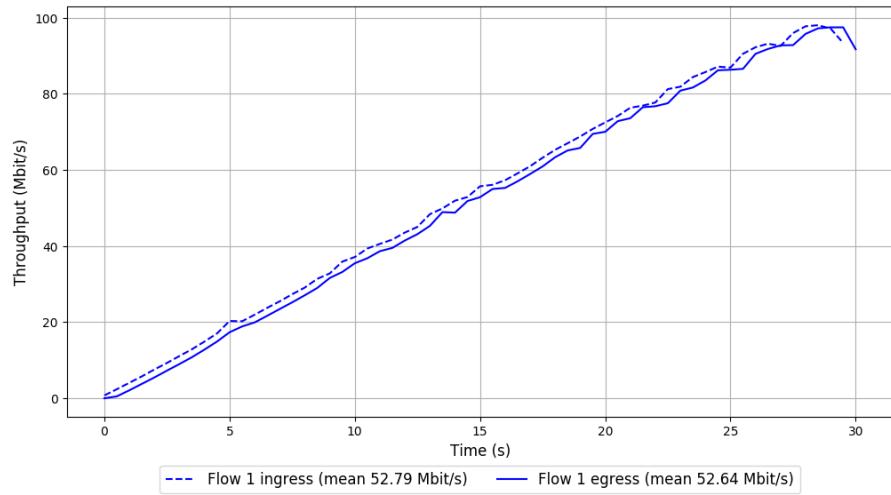


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-25 11:13:40
End at: 2019-01-25 11:14:10
Local clock offset: 0.744 ms
Remote clock offset: -5.195 ms

# Below is generated by plot.py at 2019-01-25 12:54:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.64 Mbit/s
95th percentile per-packet one-way delay: 79.277 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 52.64 Mbit/s
95th percentile per-packet one-way delay: 79.277 ms
Loss rate: 0.54%
```

Run 2: Report of LEDBAT — Data Link

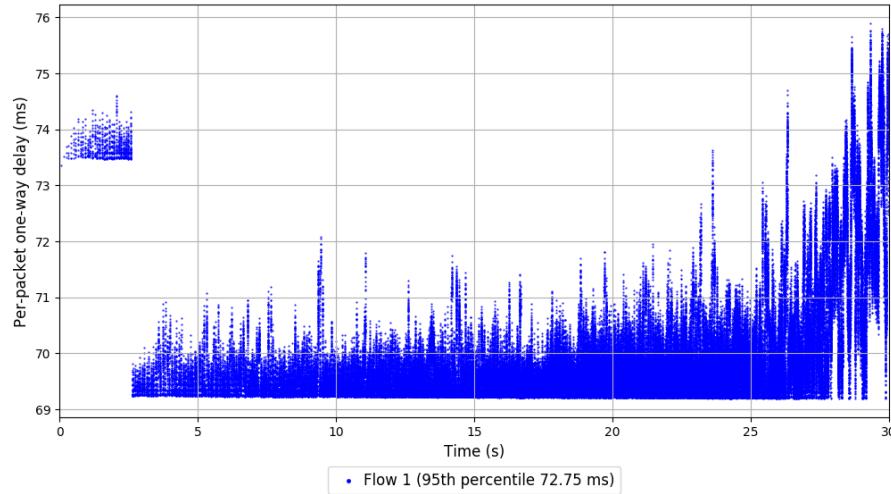
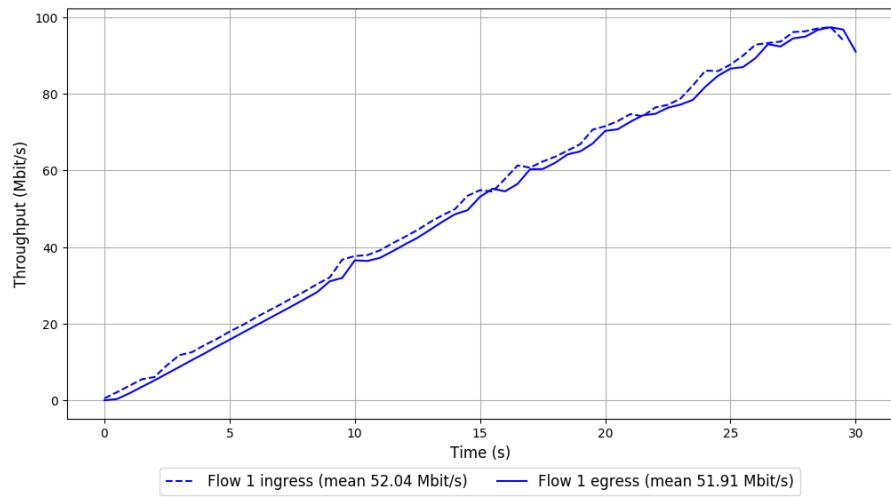


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-25 11:38:44
End at: 2019-01-25 11:39:14
Local clock offset: -1.531 ms
Remote clock offset: -1.873 ms

# Below is generated by plot.py at 2019-01-25 12:55:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.91 Mbit/s
95th percentile per-packet one-way delay: 72.754 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 51.91 Mbit/s
95th percentile per-packet one-way delay: 72.754 ms
Loss rate: 0.54%
```

Run 3: Report of LEDBAT — Data Link

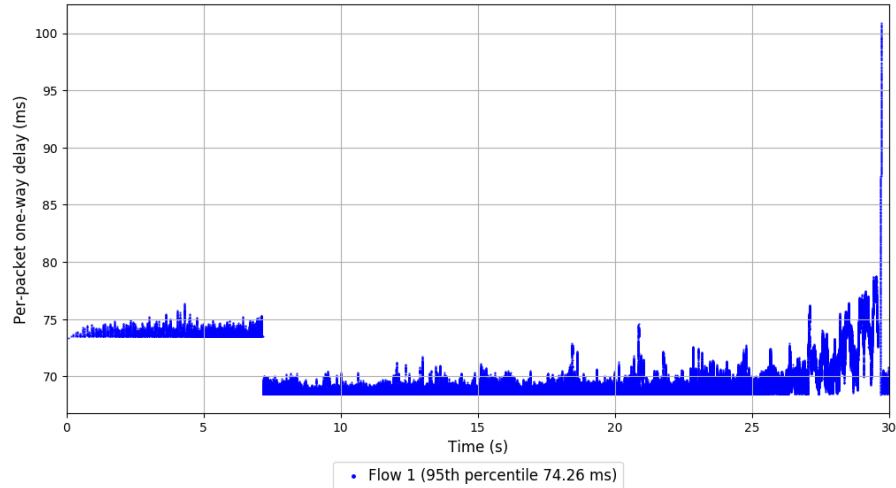
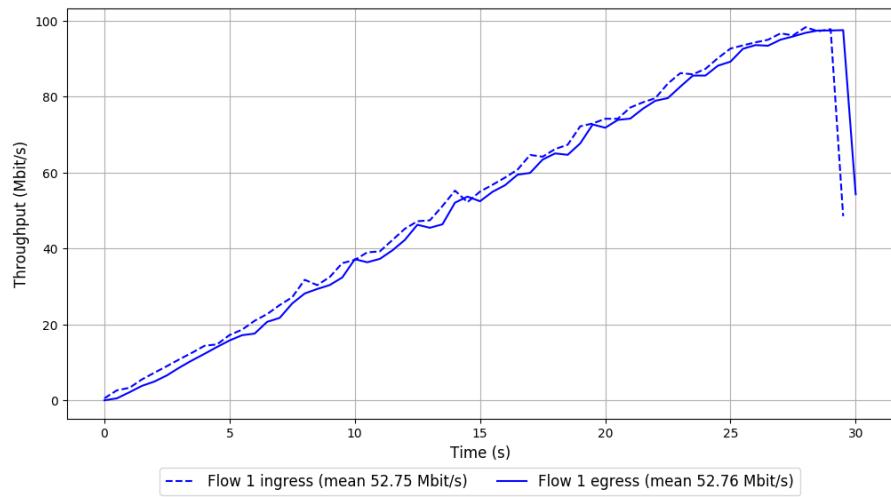


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-25 12:03:49
End at: 2019-01-25 12:04:19
Local clock offset: 1.393 ms
Remote clock offset: 1.724 ms

# Below is generated by plot.py at 2019-01-25 12:55:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.76 Mbit/s
95th percentile per-packet one-way delay: 74.257 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 52.76 Mbit/s
95th percentile per-packet one-way delay: 74.257 ms
Loss rate: 0.28%
```

Run 4: Report of LEDBAT — Data Link

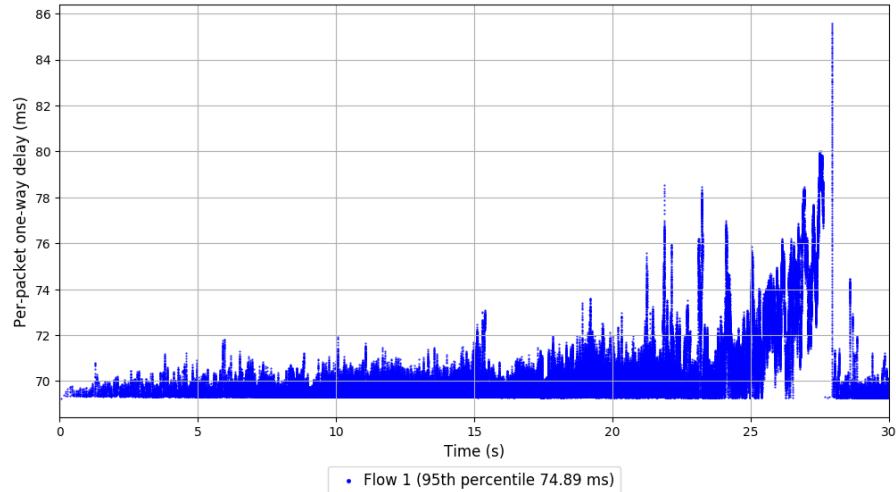
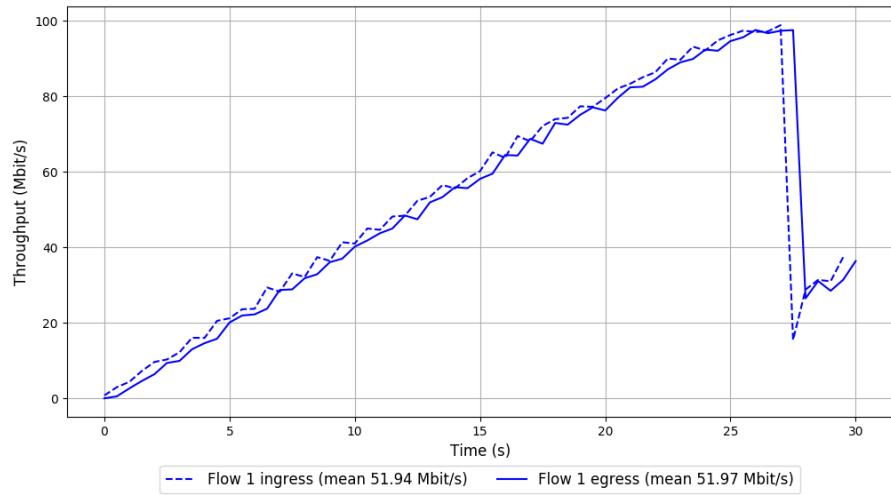


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-25 12:29:40
End at: 2019-01-25 12:30:10
Local clock offset: 0.496 ms
Remote clock offset: -1.553 ms

# Below is generated by plot.py at 2019-01-25 12:55:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.97 Mbit/s
95th percentile per-packet one-way delay: 74.892 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 51.97 Mbit/s
95th percentile per-packet one-way delay: 74.892 ms
Loss rate: 0.18%
```

Run 5: Report of LEDBAT — Data Link

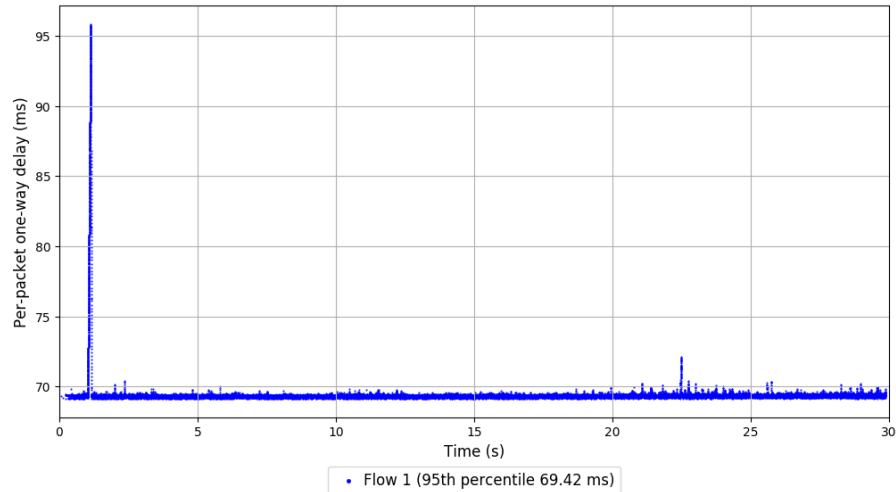
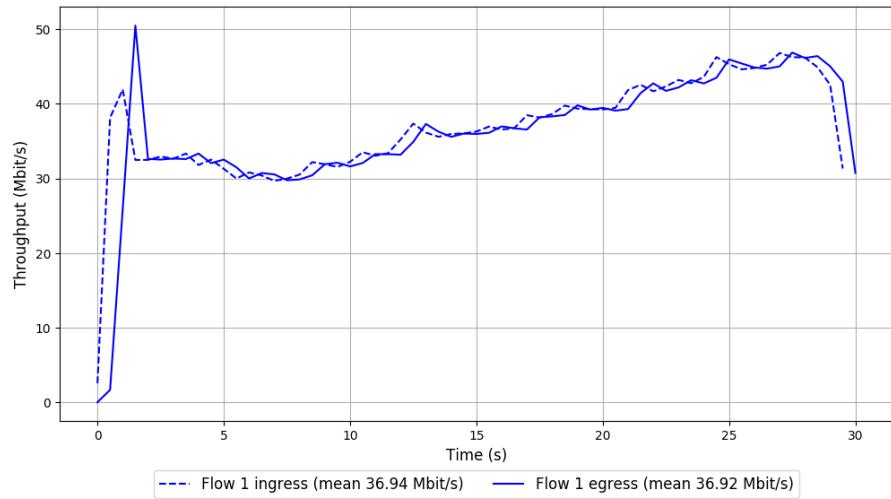


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-25 10:51:59
End at: 2019-01-25 10:52:29
Local clock offset: -0.518 ms
Remote clock offset: -7.354 ms

# Below is generated by plot.py at 2019-01-25 12:55:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.92 Mbit/s
95th percentile per-packet one-way delay: 69.418 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 36.92 Mbit/s
95th percentile per-packet one-way delay: 69.418 ms
Loss rate: 0.29%
```

Run 1: Report of PCC-Allegro — Data Link

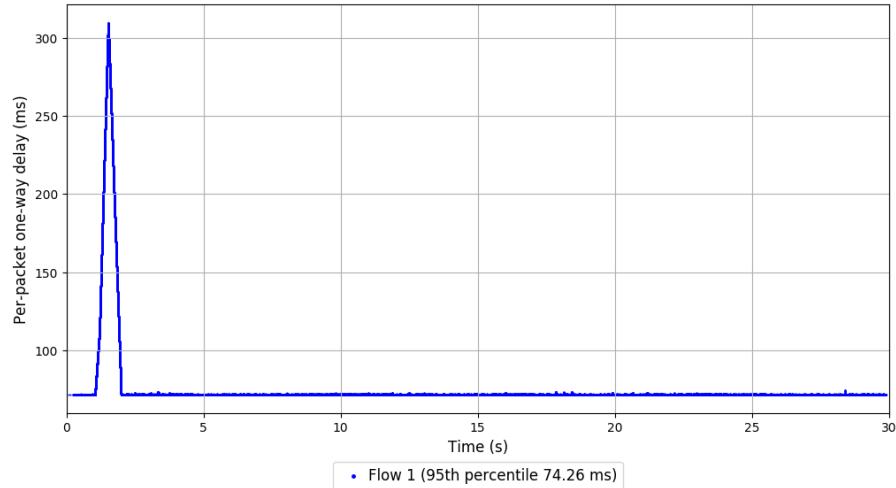
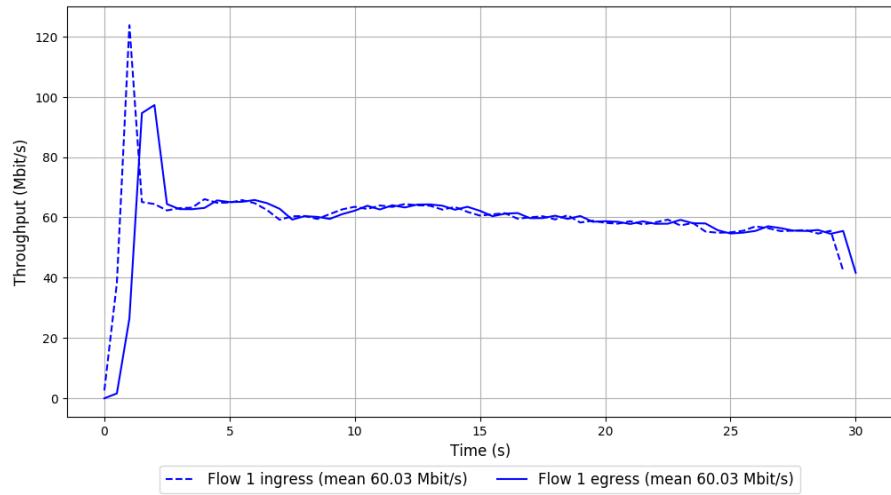


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-25 11:17:06
End at: 2019-01-25 11:17:36
Local clock offset: -1.311 ms
Remote clock offset: -3.881 ms

# Below is generated by plot.py at 2019-01-25 12:55:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.03 Mbit/s
95th percentile per-packet one-way delay: 74.262 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 60.03 Mbit/s
95th percentile per-packet one-way delay: 74.262 ms
Loss rate: 0.26%
```

Run 2: Report of PCC-Allegro — Data Link

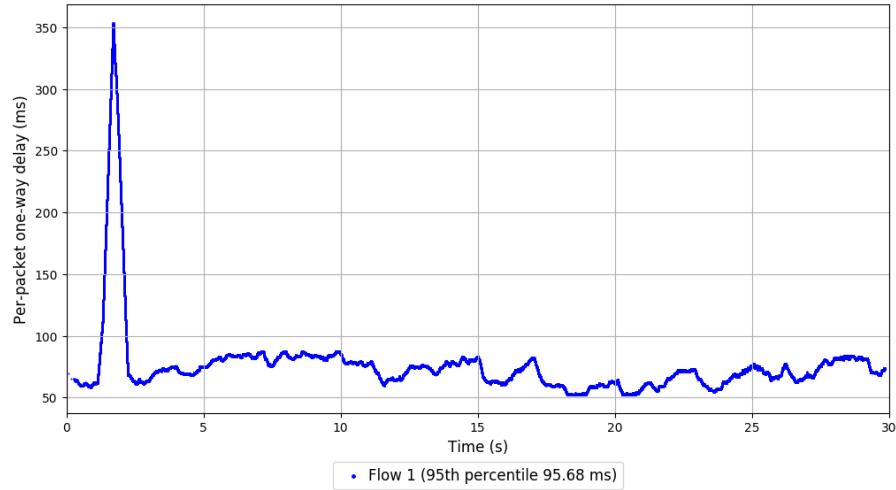
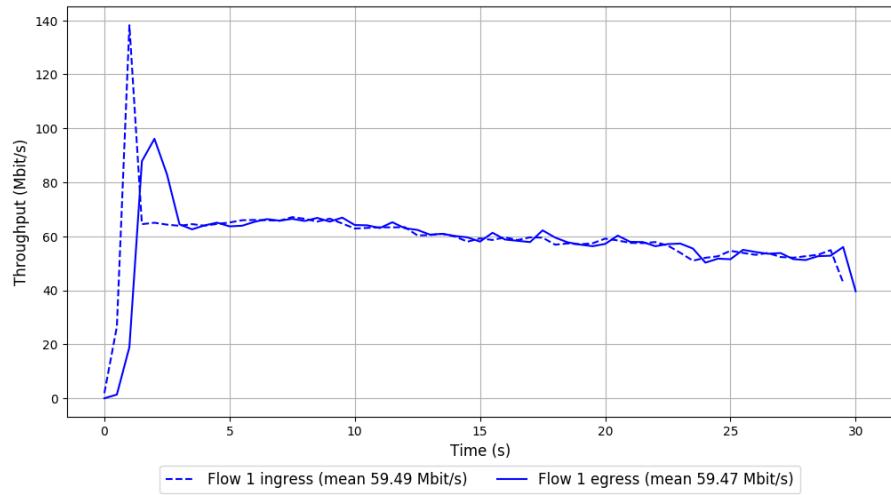


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-25 11:42:18
End at: 2019-01-25 11:42:48
Local clock offset: -1.902 ms
Remote clock offset: 13.579 ms

# Below is generated by plot.py at 2019-01-25 12:55:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.47 Mbit/s
95th percentile per-packet one-way delay: 95.681 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 59.47 Mbit/s
95th percentile per-packet one-way delay: 95.681 ms
Loss rate: 0.36%
```

Run 3: Report of PCC-Allegro — Data Link

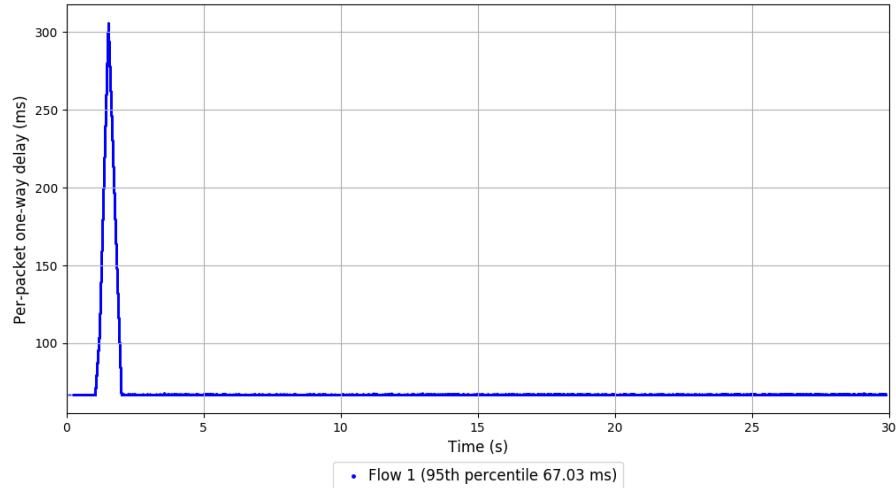
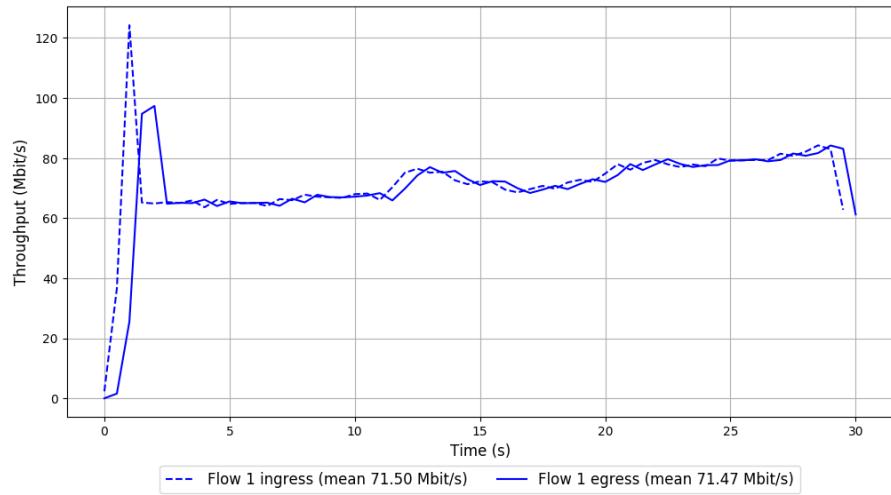


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-25 12:07:29
End at: 2019-01-25 12:07:59
Local clock offset: -1.217 ms
Remote clock offset: -0.643 ms

# Below is generated by plot.py at 2019-01-25 12:55:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.47 Mbit/s
95th percentile per-packet one-way delay: 67.025 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 71.47 Mbit/s
95th percentile per-packet one-way delay: 67.025 ms
Loss rate: 0.31%
```

Run 4: Report of PCC-Allegro — Data Link

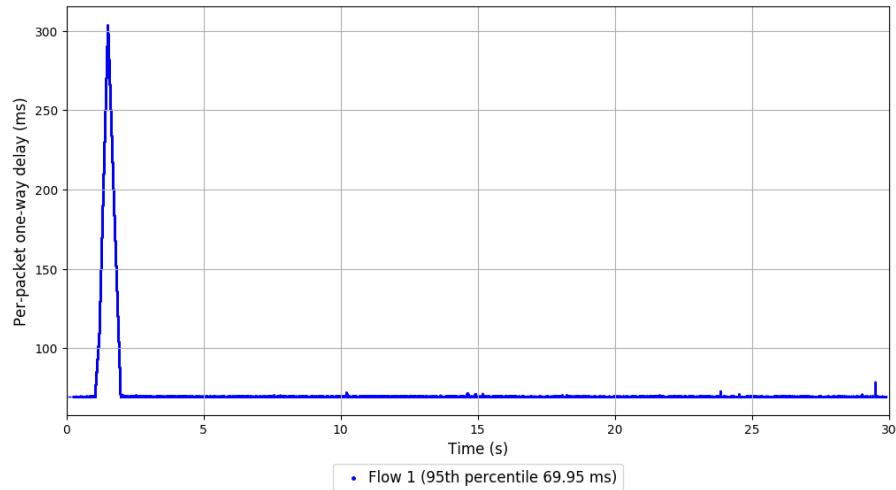
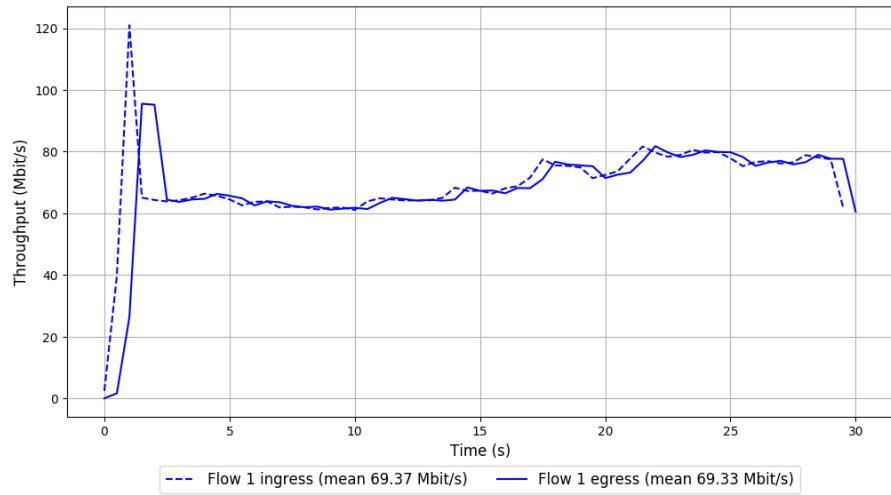


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-25 12:33:22
End at: 2019-01-25 12:33:52
Local clock offset: 2.617 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2019-01-25 12:55:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.33 Mbit/s
95th percentile per-packet one-way delay: 69.953 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 69.33 Mbit/s
95th percentile per-packet one-way delay: 69.953 ms
Loss rate: 0.31%
```

Run 5: Report of PCC-Allegro — Data Link

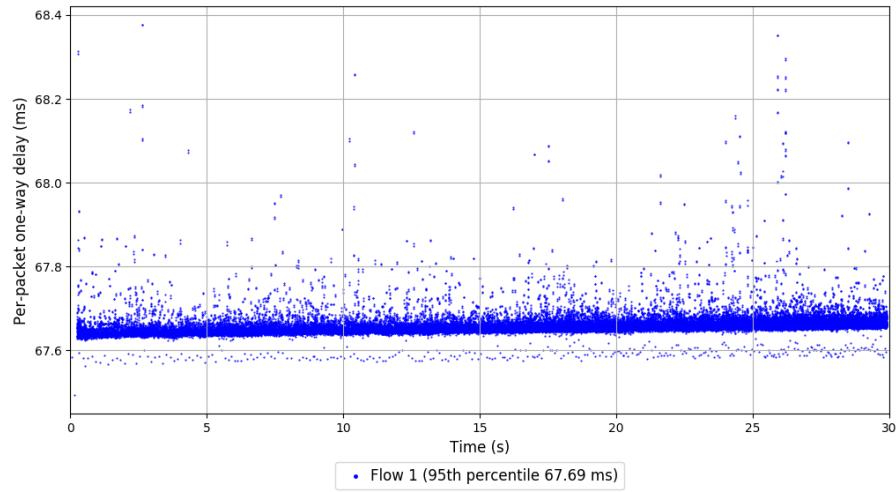
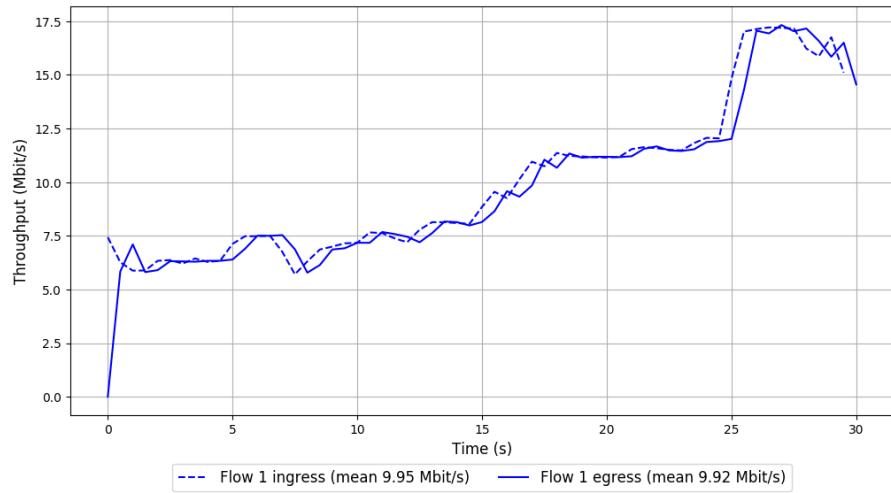


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-25 10:58:02
End at: 2019-01-25 10:58:32
Local clock offset: -2.575 ms
Remote clock offset: -6.867 ms

# Below is generated by plot.py at 2019-01-25 12:55:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.92 Mbit/s
95th percentile per-packet one-way delay: 67.690 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 9.92 Mbit/s
95th percentile per-packet one-way delay: 67.690 ms
Loss rate: 0.49%
```

Run 1: Report of PCC-Expr — Data Link

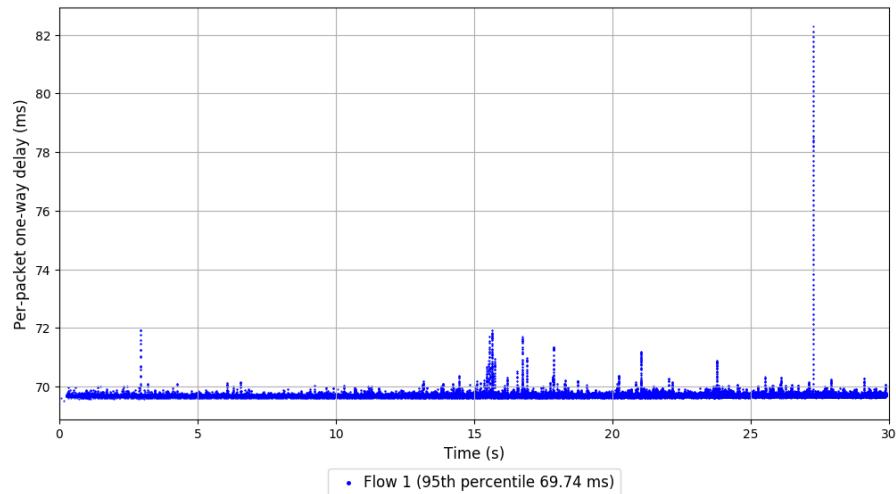
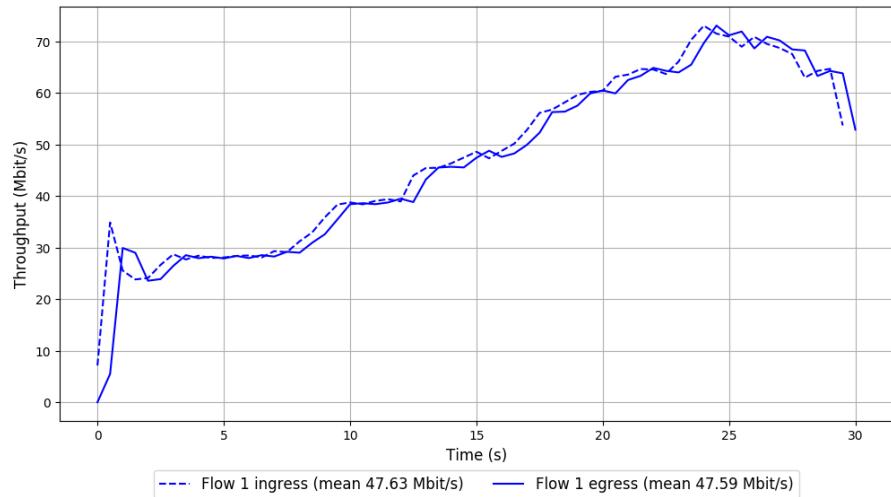


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-25 11:23:00
End at: 2019-01-25 11:23:30
Local clock offset: -2.734 ms
Remote clock offset: -2.851 ms

# Below is generated by plot.py at 2019-01-25 12:56:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.59 Mbit/s
95th percentile per-packet one-way delay: 69.741 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 47.59 Mbit/s
95th percentile per-packet one-way delay: 69.741 ms
Loss rate: 0.36%
```

Run 2: Report of PCC-Expr — Data Link

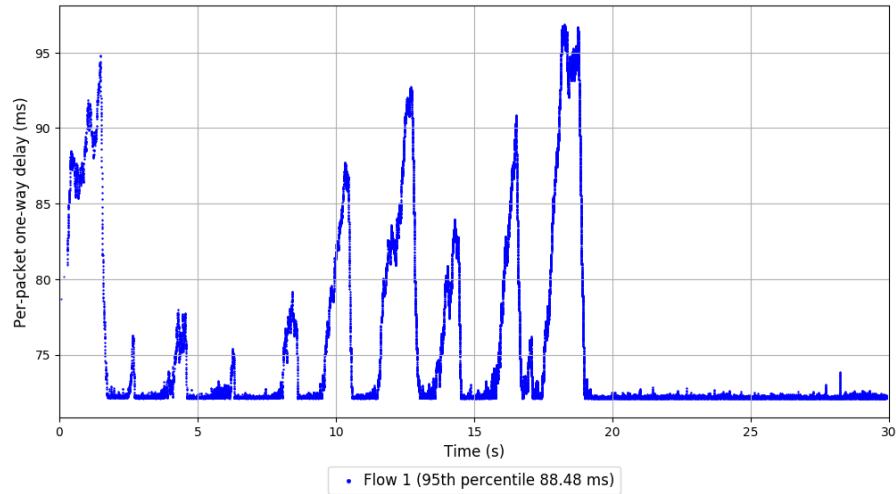
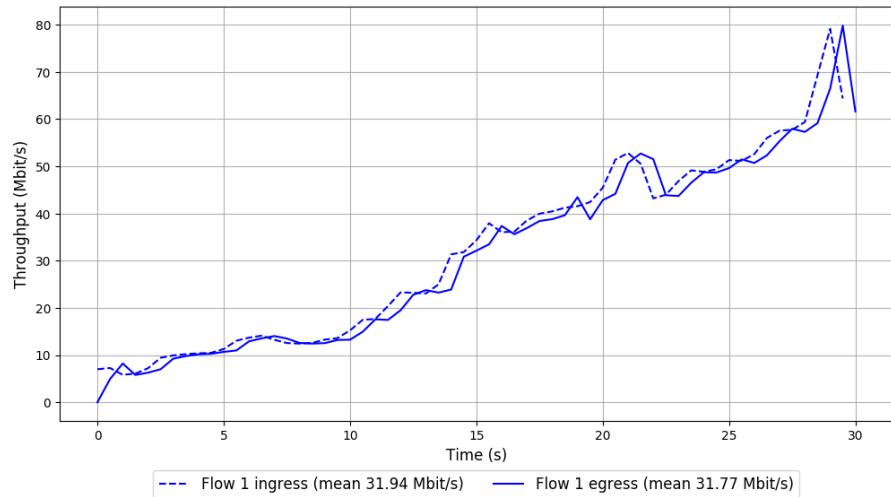


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-25 11:48:12
End at: 2019-01-25 11:48:42
Local clock offset: 1.389 ms
Remote clock offset: -2.539 ms

# Below is generated by plot.py at 2019-01-25 12:56:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.77 Mbit/s
95th percentile per-packet one-way delay: 88.477 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 31.77 Mbit/s
95th percentile per-packet one-way delay: 88.477 ms
Loss rate: 0.83%
```

Run 3: Report of PCC-Expr — Data Link

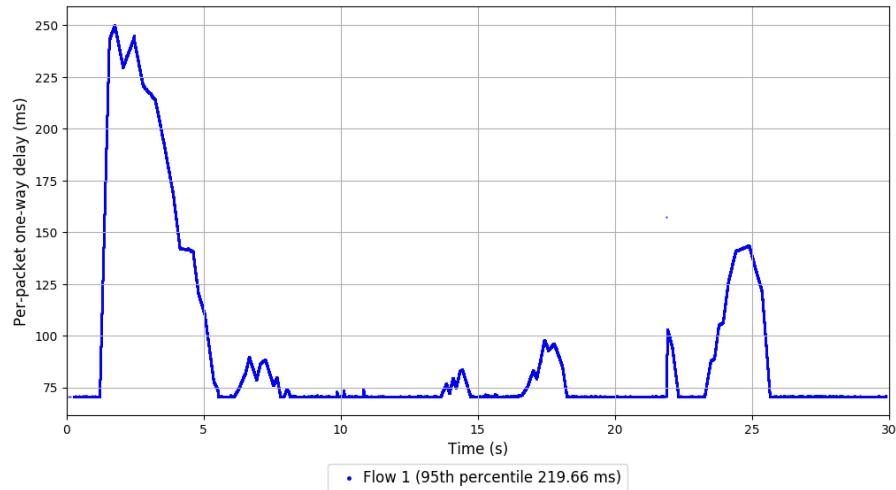
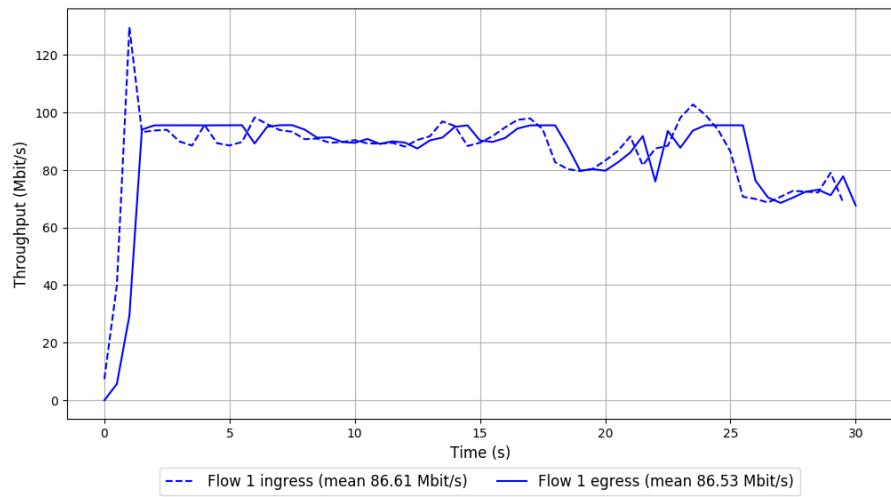


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-25 12:13:32
End at: 2019-01-25 12:14:02
Local clock offset: -4.412 ms
Remote clock offset: -7.35 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.53 Mbit/s
95th percentile per-packet one-way delay: 219.655 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 86.53 Mbit/s
95th percentile per-packet one-way delay: 219.655 ms
Loss rate: 0.37%
```

Run 4: Report of PCC-Expr — Data Link

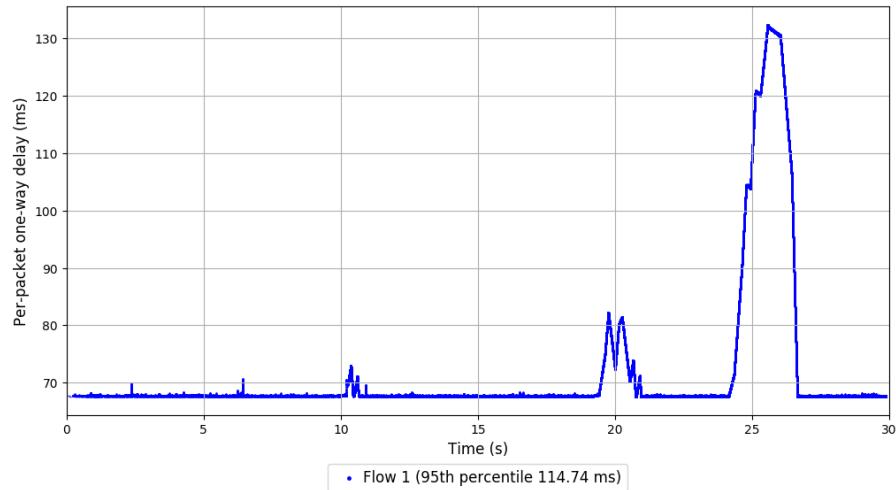
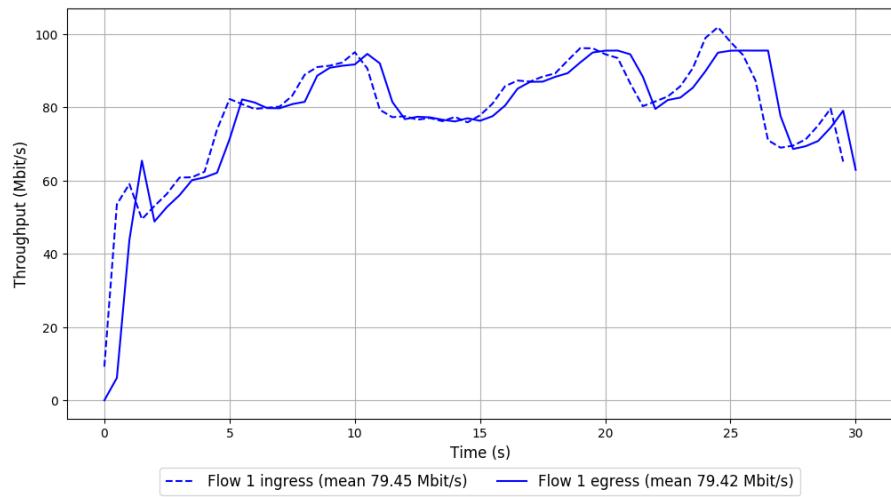


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-25 12:39:27
End at: 2019-01-25 12:39:57
Local clock offset: -1.379 ms
Remote clock offset: -2.648 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.42 Mbit/s
95th percentile per-packet one-way delay: 114.743 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 79.42 Mbit/s
95th percentile per-packet one-way delay: 114.743 ms
Loss rate: 0.29%
```

Run 5: Report of PCC-Expr — Data Link

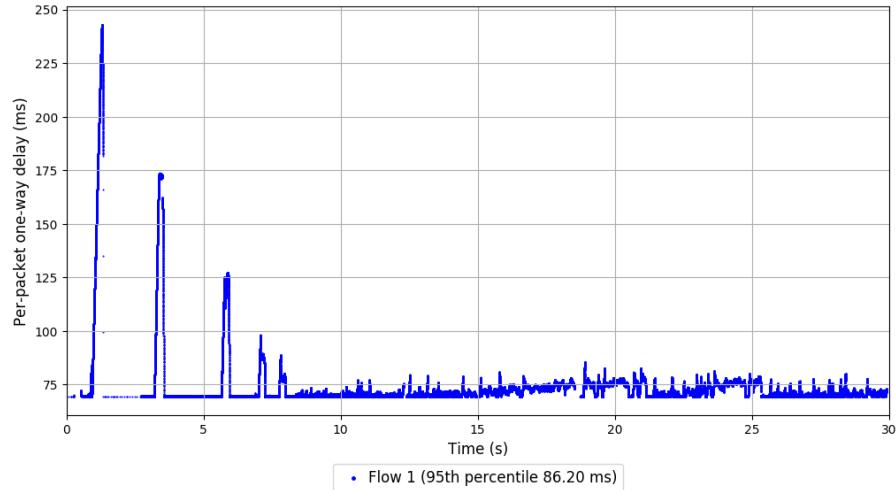
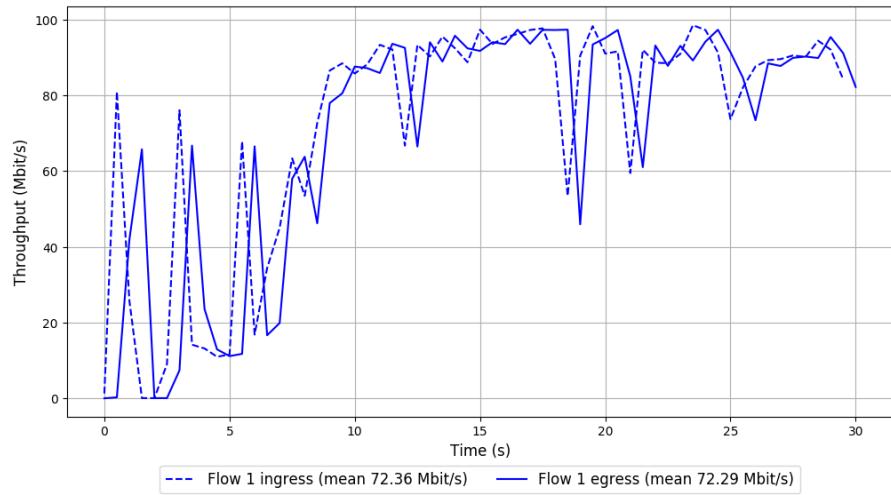


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-01-25 10:56:46
End at: 2019-01-25 10:57:16
Local clock offset: -1.251 ms
Remote clock offset: -6.641 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.29 Mbit/s
95th percentile per-packet one-way delay: 86.203 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 72.29 Mbit/s
95th percentile per-packet one-way delay: 86.203 ms
Loss rate: 0.37%
```

Run 1: Report of QUIC Cubic — Data Link

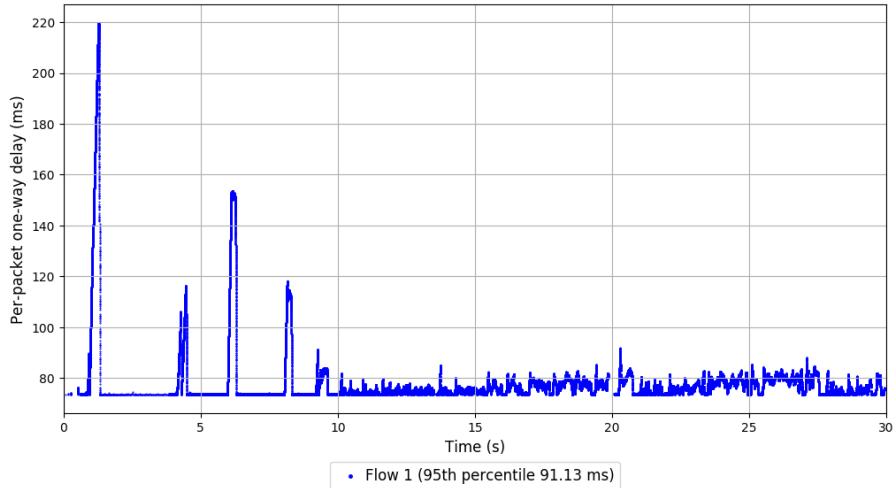
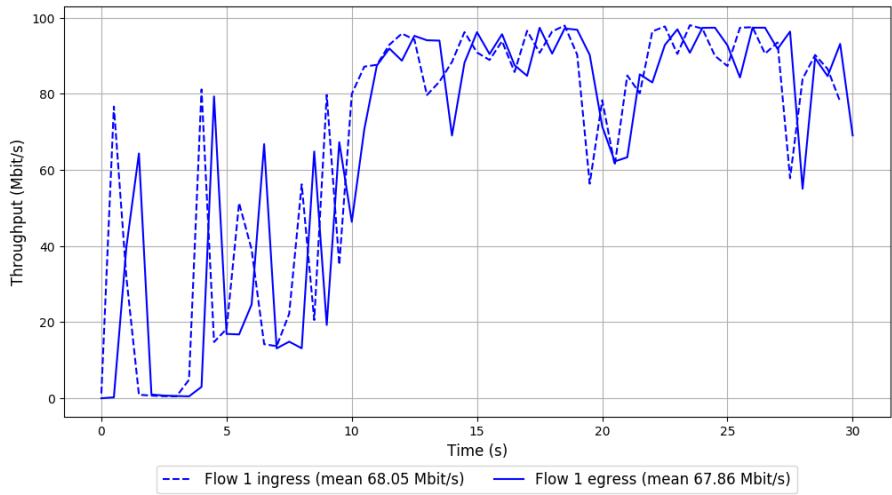


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-25 11:21:51
End at: 2019-01-25 11:22:21
Local clock offset: -0.388 ms
Remote clock offset: -5.247 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.86 Mbit/s
95th percentile per-packet one-way delay: 91.127 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 67.86 Mbit/s
95th percentile per-packet one-way delay: 91.127 ms
Loss rate: 0.54%
```

Run 2: Report of QUIC Cubic — Data Link

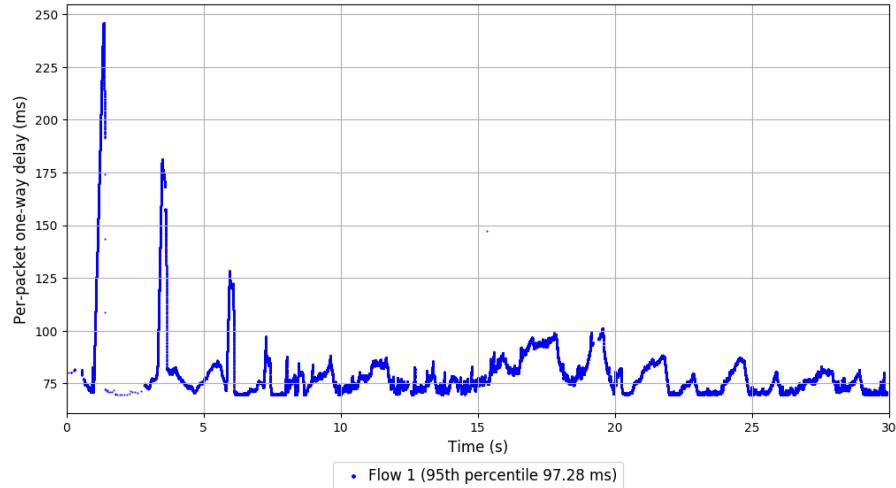
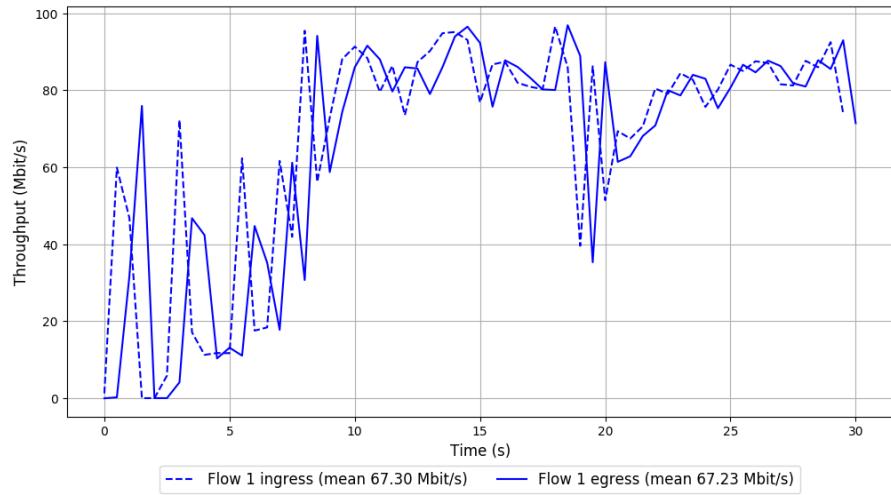


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-25 11:47:03
End at: 2019-01-25 11:47:33
Local clock offset: -1.507 ms
Remote clock offset: -4.26 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.23 Mbit/s
95th percentile per-packet one-way delay: 97.275 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 67.23 Mbit/s
95th percentile per-packet one-way delay: 97.275 ms
Loss rate: 0.39%
```

Run 3: Report of QUIC Cubic — Data Link

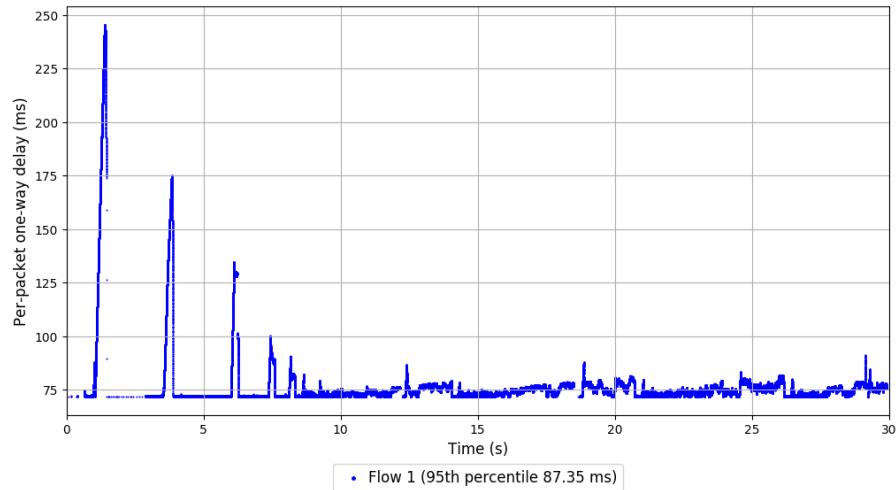
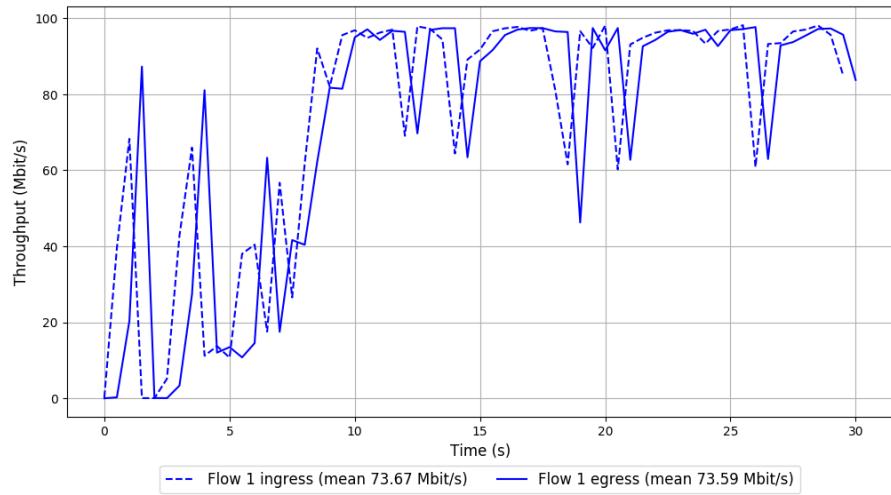


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-25 12:12:23
End at: 2019-01-25 12:12:53
Local clock offset: 2.155 ms
Remote clock offset: -1.63 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.59 Mbit/s
95th percentile per-packet one-way delay: 87.349 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 73.59 Mbit/s
95th percentile per-packet one-way delay: 87.349 ms
Loss rate: 0.38%
```

Run 4: Report of QUIC Cubic — Data Link

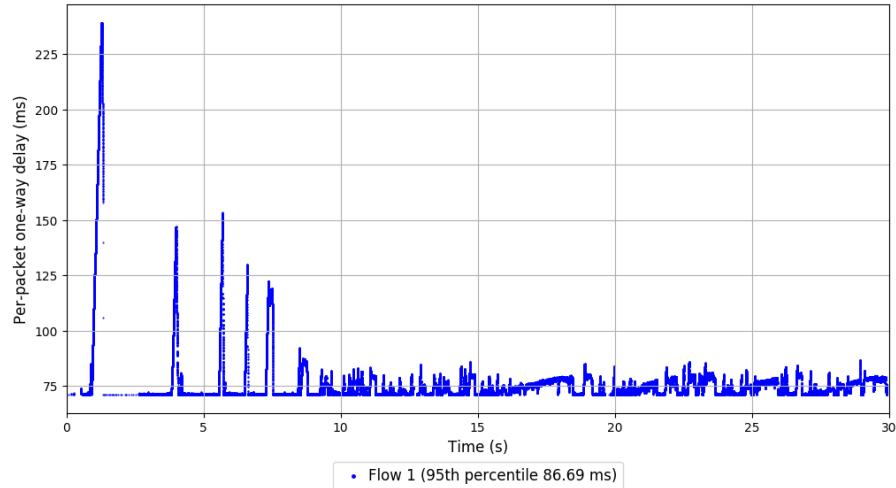
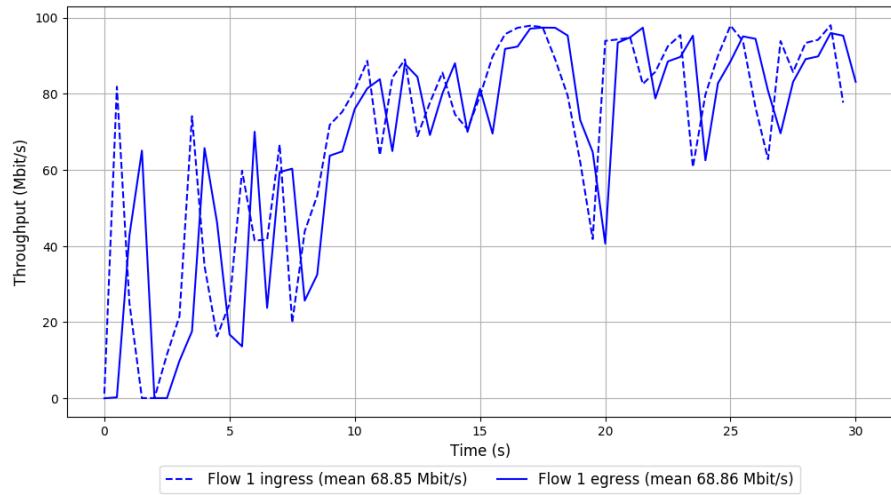


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-25 12:38:18
End at: 2019-01-25 12:38:48
Local clock offset: 0.753 ms
Remote clock offset: -2.739 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.86 Mbit/s
95th percentile per-packet one-way delay: 86.688 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 68.86 Mbit/s
95th percentile per-packet one-way delay: 86.688 ms
Loss rate: 0.24%
```

Run 5: Report of QUIC Cubic — Data Link

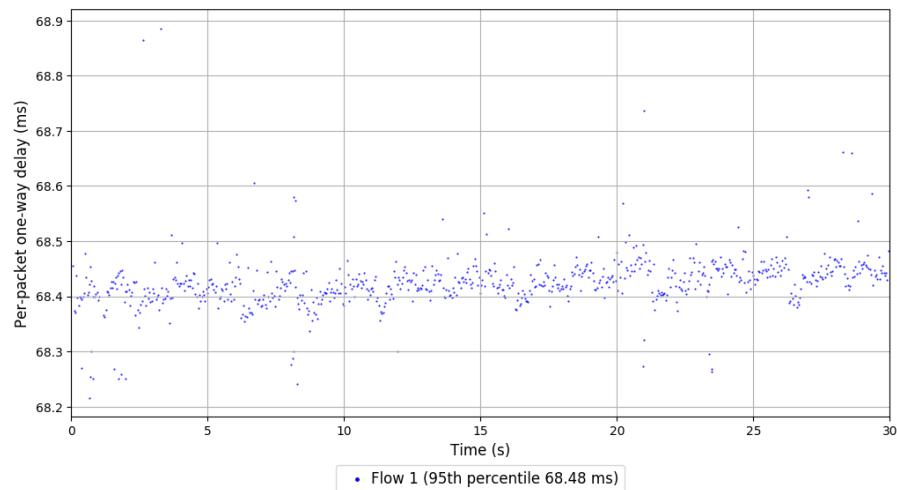
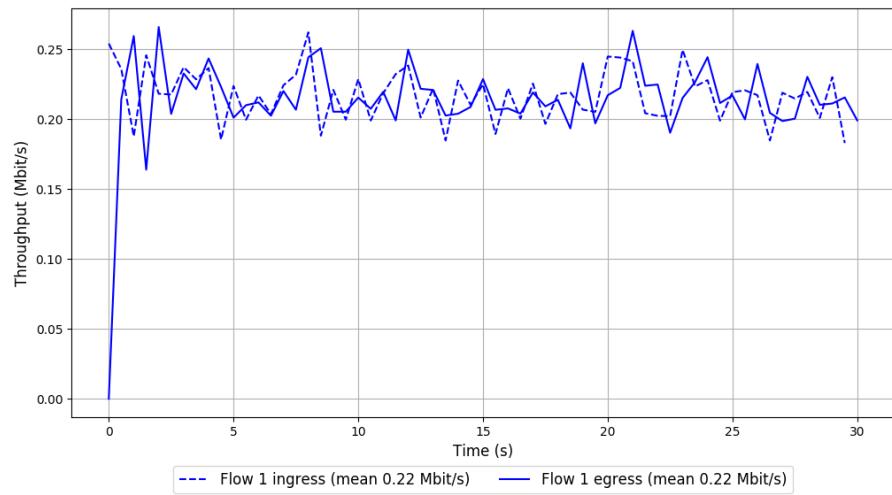


Run 1: Statistics of SCReAM

```
Start at: 2019-01-25 11:00:16
End at: 2019-01-25 11:00:46
Local clock offset: -0.628 ms
Remote clock offset: -6.025 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.476 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.476 ms
Loss rate: 0.13%
```

Run 1: Report of SCReAM — Data Link

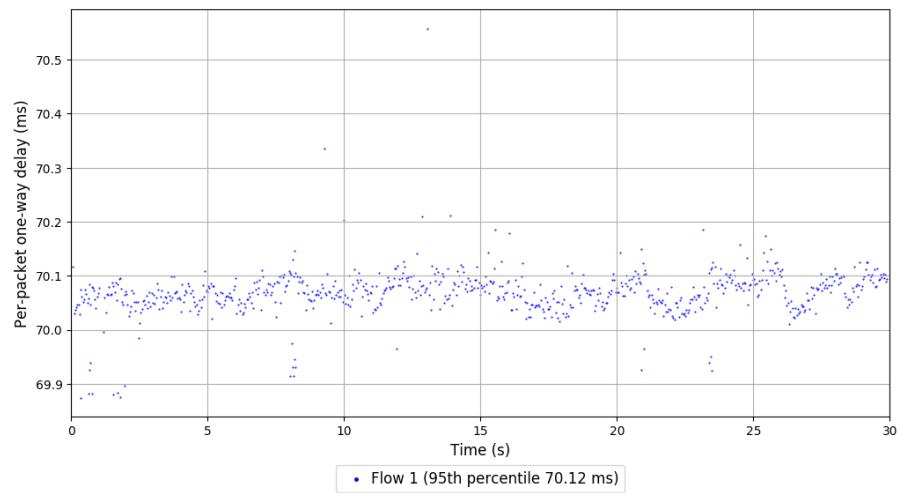
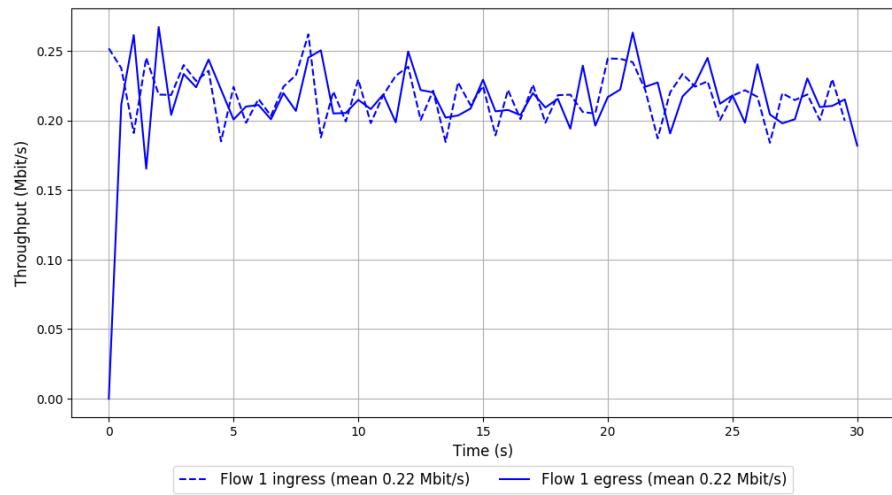


Run 2: Statistics of SCReAM

```
Start at: 2019-01-25 11:25:17
End at: 2019-01-25 11:25:47
Local clock offset: -3.597 ms
Remote clock offset: -3.936 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.116 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.116 ms
Loss rate: 0.39%
```

Run 2: Report of SCReAM — Data Link

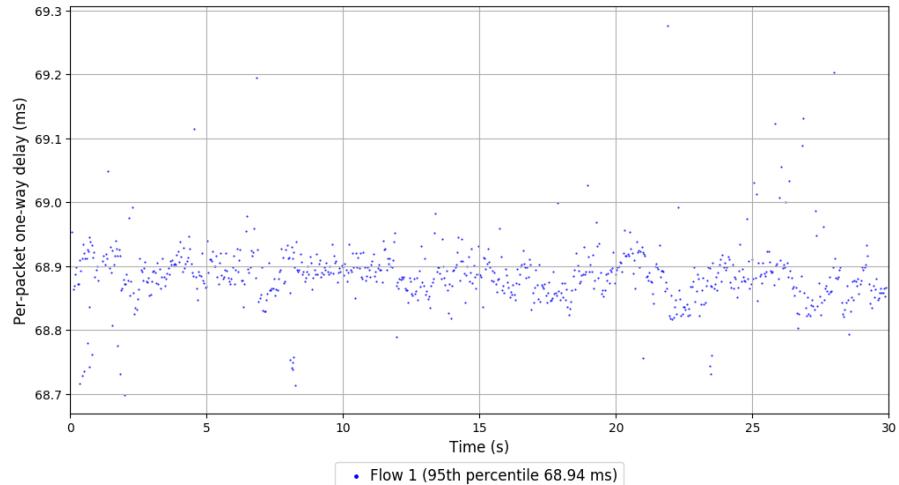
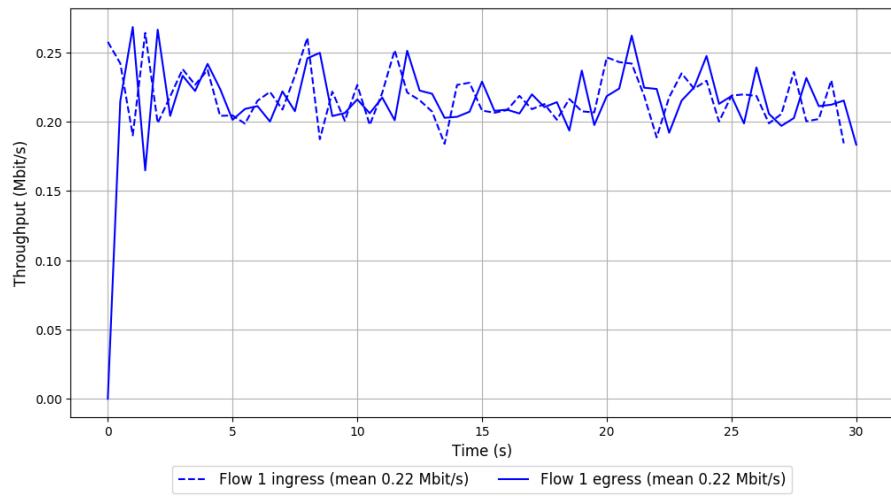


Run 3: Statistics of SCReAM

```
Start at: 2019-01-25 11:50:27
End at: 2019-01-25 11:50:57
Local clock offset: -0.399 ms
Remote clock offset: -2.381 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.942 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.942 ms
Loss rate: 0.26%
```

Run 3: Report of SCReAM — Data Link

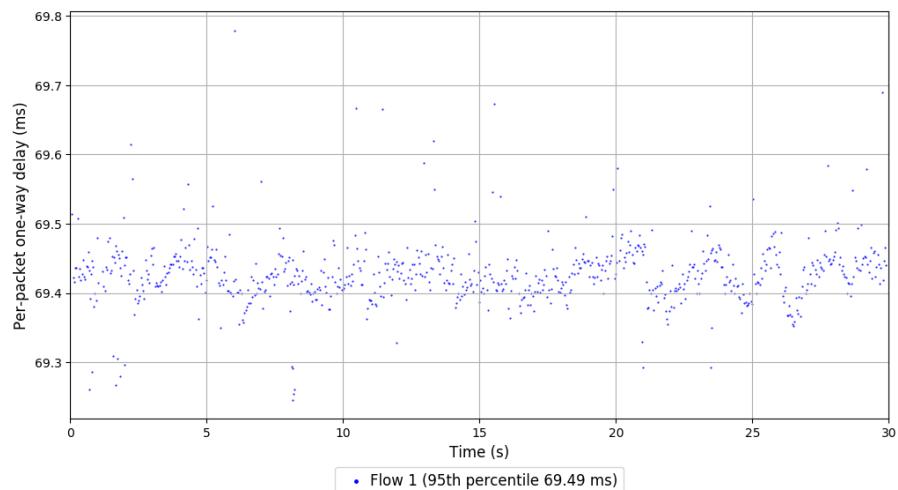
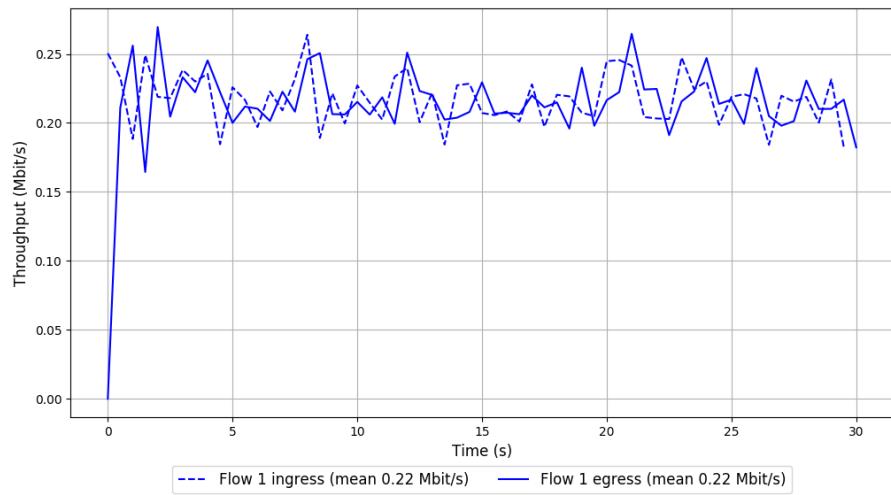


Run 4: Statistics of SCReAM

```
Start at: 2019-01-25 12:15:56
End at: 2019-01-25 12:16:26
Local clock offset: 0.322 ms
Remote clock offset: -1.475 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.490 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.490 ms
Loss rate: 0.25%
```

Run 4: Report of SCReAM — Data Link

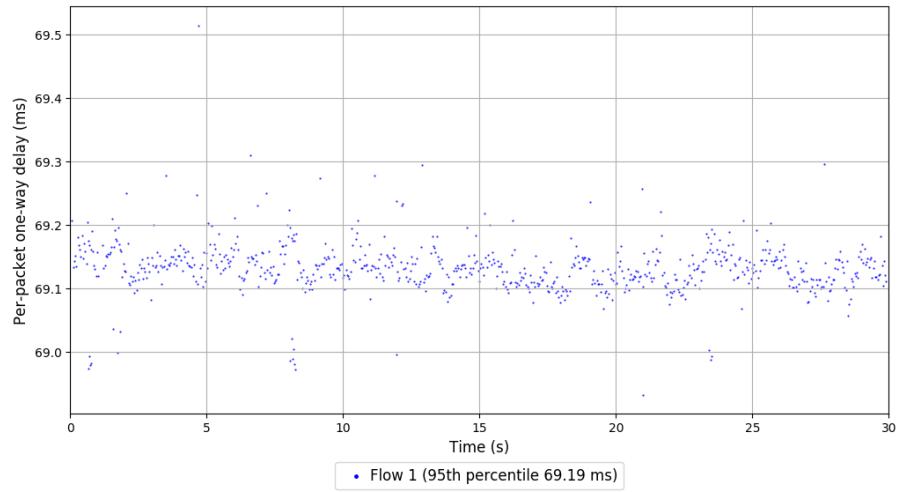
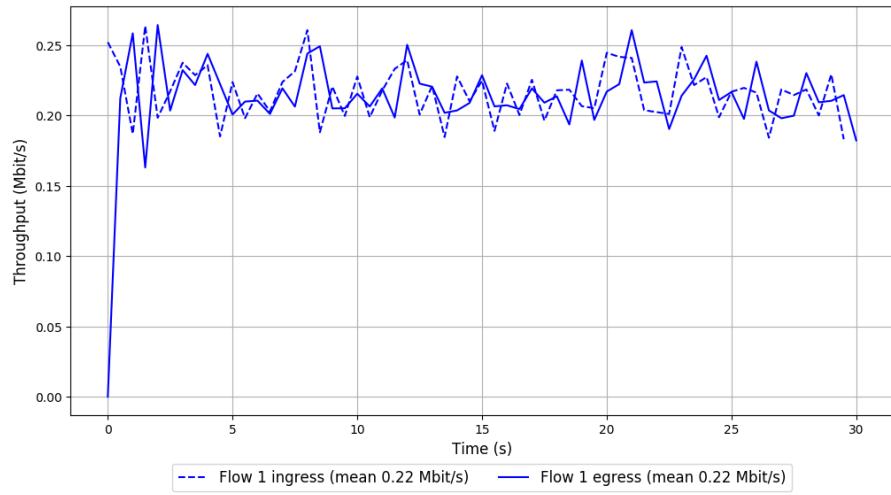


Run 5: Statistics of SCReAM

```
Start at: 2019-01-25 12:41:49
End at: 2019-01-25 12:42:19
Local clock offset: 1.739 ms
Remote clock offset: -1.036 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.191 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.191 ms
Loss rate: 0.26%
```

Run 5: Report of SCReAM — Data Link

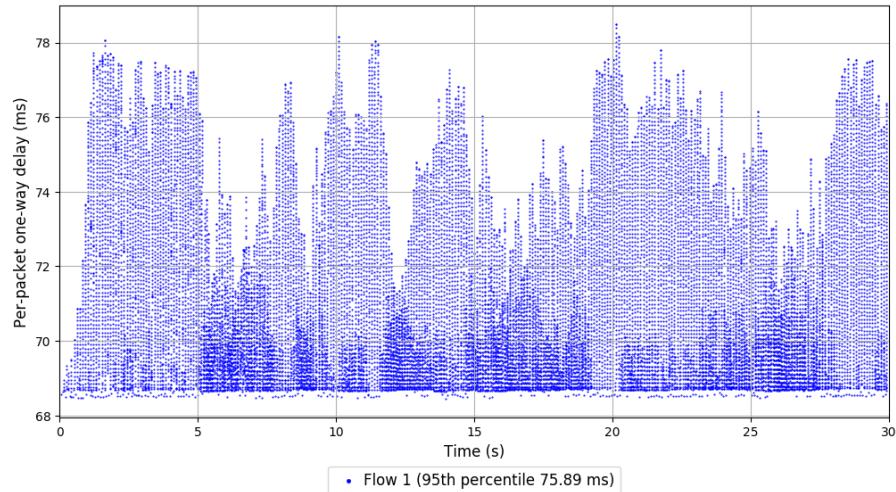
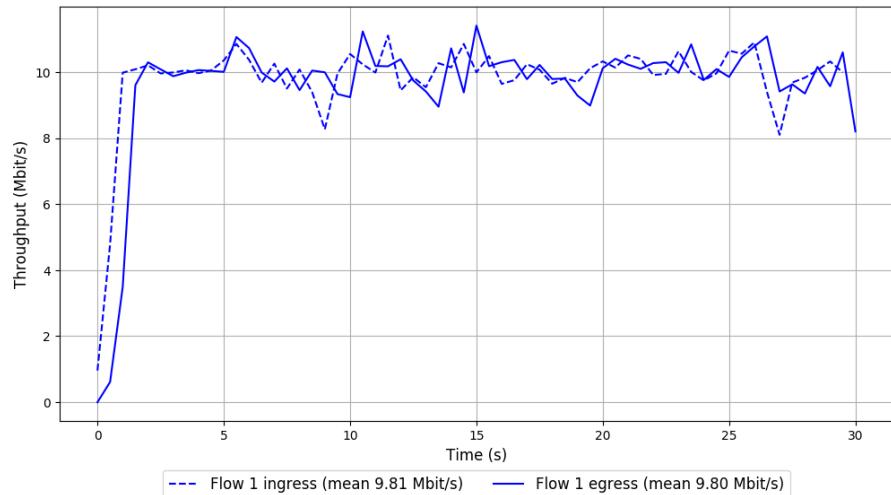


Run 1: Statistics of Sprout

```
Start at: 2019-01-25 10:44:01
End at: 2019-01-25 10:44:31
Local clock offset: -1.858 ms
Remote clock offset: -7.195 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.80 Mbit/s
95th percentile per-packet one-way delay: 75.890 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.80 Mbit/s
95th percentile per-packet one-way delay: 75.890 ms
Loss rate: 0.35%
```

Run 1: Report of Sprout — Data Link

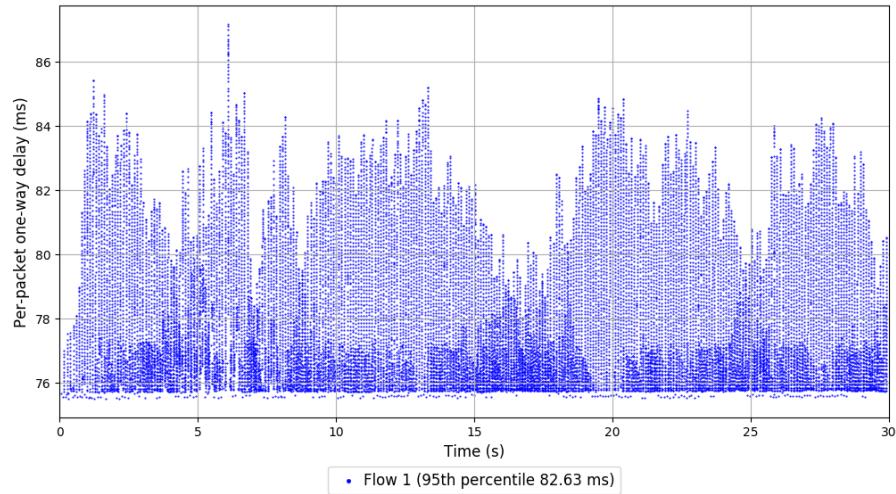
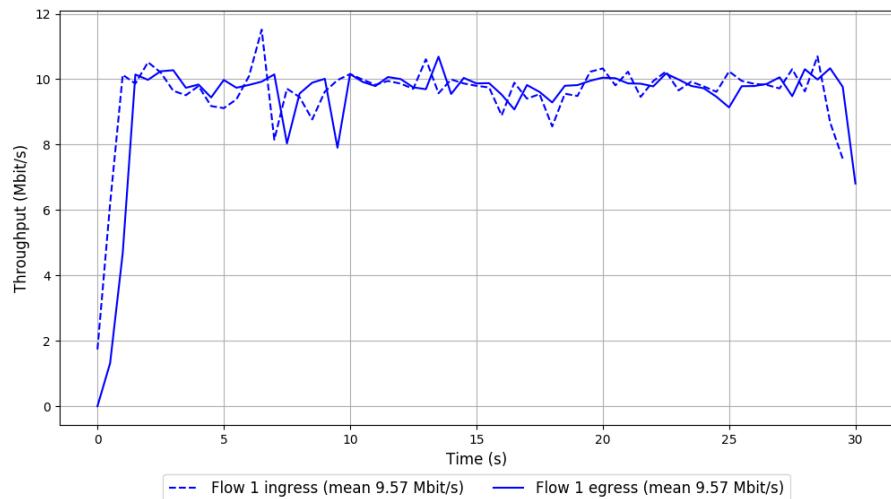


Run 2: Statistics of Sprout

```
Start at: 2019-01-25 11:08:59
End at: 2019-01-25 11:09:29
Local clock offset: -1.155 ms
Remote clock offset: -8.403 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 82.630 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 82.630 ms
Loss rate: 0.28%
```

Run 2: Report of Sprout — Data Link

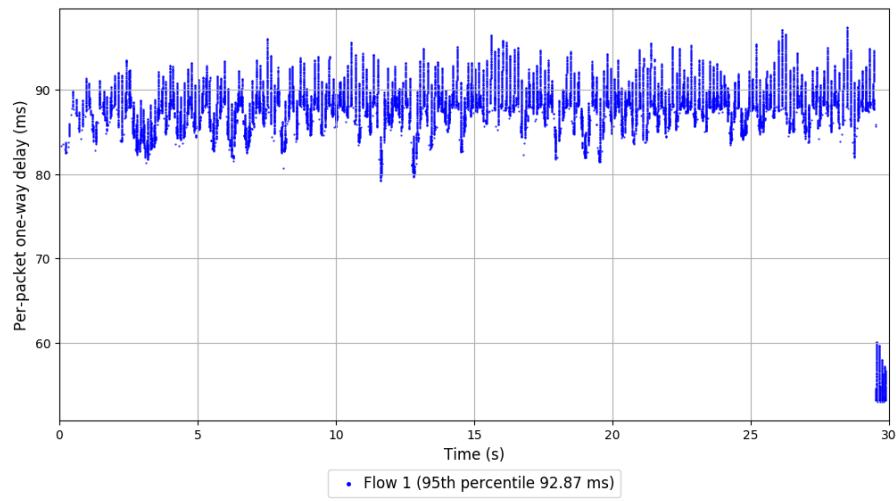
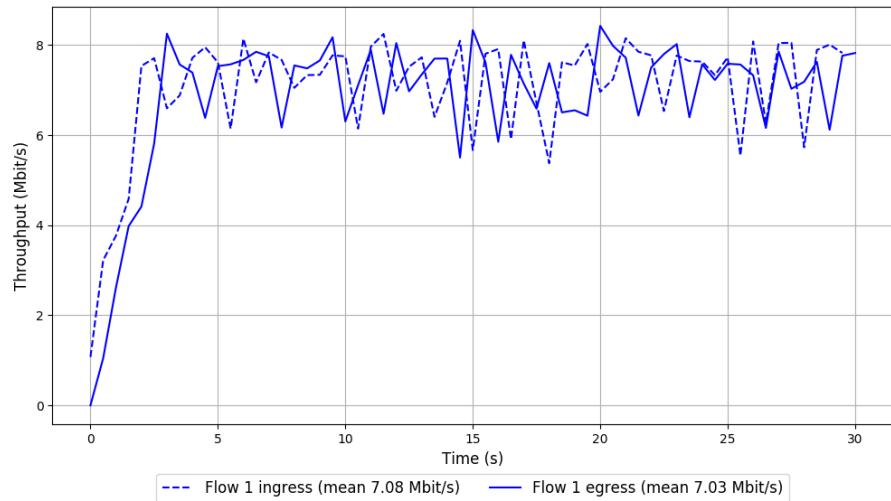


Run 3: Statistics of Sprout

```
Start at: 2019-01-25 11:33:54
End at: 2019-01-25 11:34:24
Local clock offset: -1.317 ms
Remote clock offset: 14.928 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 92.874 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 92.874 ms
Loss rate: 1.04%
```

Run 3: Report of Sprout — Data Link

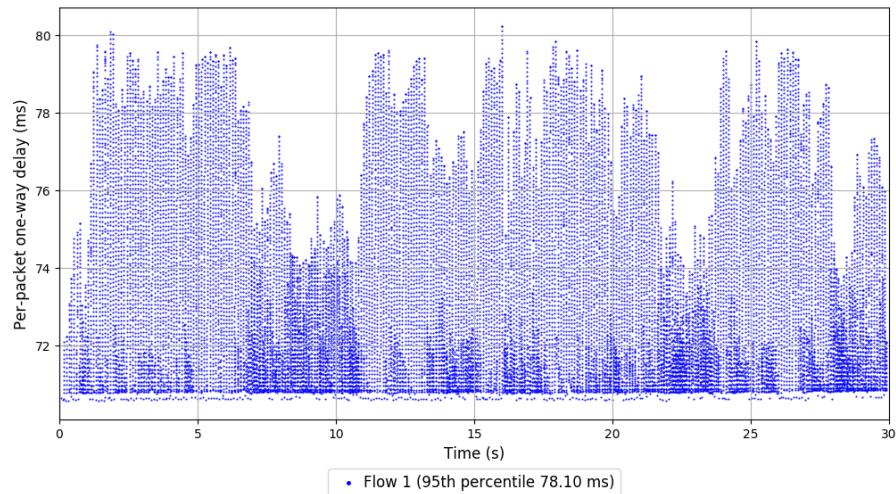
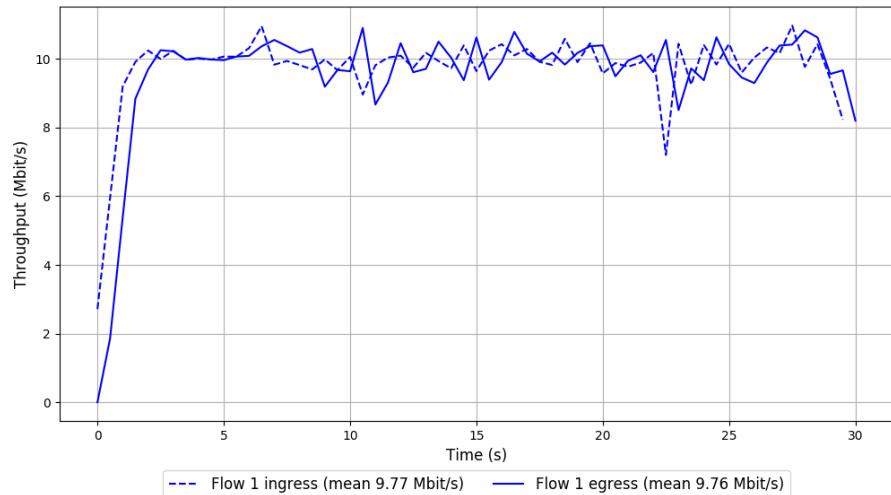


Run 4: Statistics of Sprout

```
Start at: 2019-01-25 11:58:55
End at: 2019-01-25 11:59:25
Local clock offset: 2.461 ms
Remote clock offset: -2.068 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.76 Mbit/s
95th percentile per-packet one-way delay: 78.097 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 9.76 Mbit/s
95th percentile per-packet one-way delay: 78.097 ms
Loss rate: 0.28%
```

Run 4: Report of Sprout — Data Link

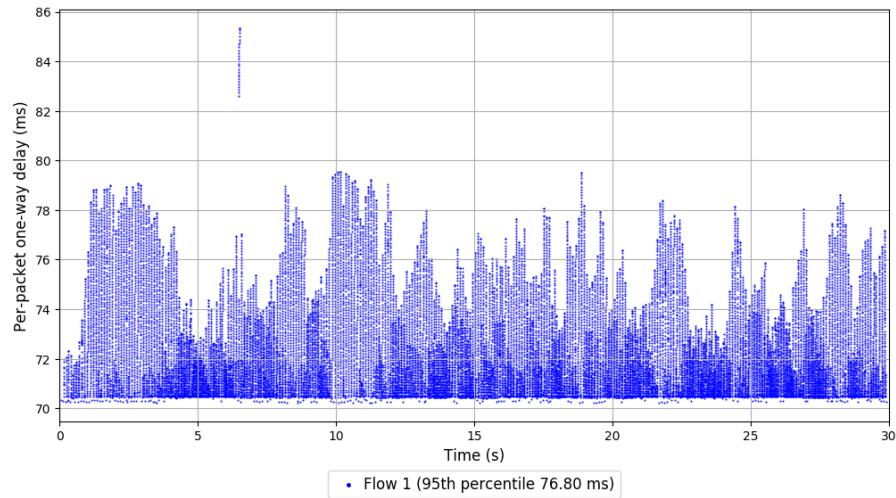
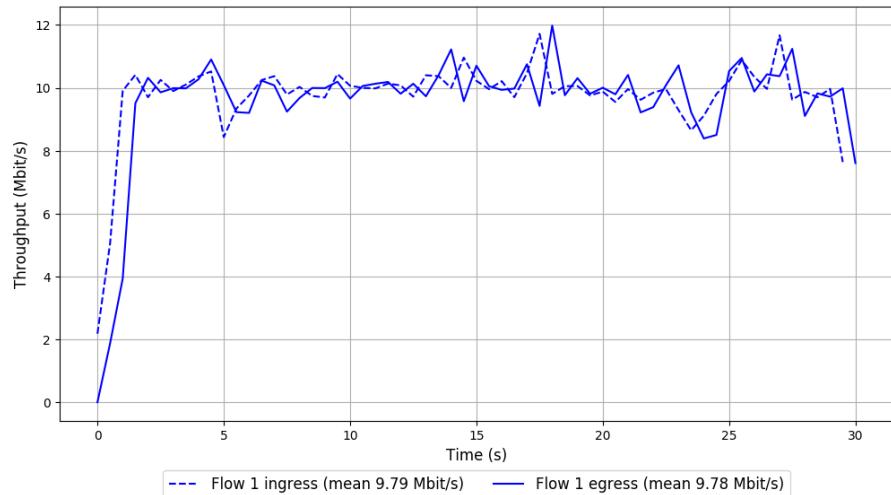


Run 5: Statistics of Sprout

```
Start at: 2019-01-25 12:24:53
End at: 2019-01-25 12:25:23
Local clock offset: 0.939 ms
Remote clock offset: -2.035 ms

# Below is generated by plot.py at 2019-01-25 12:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 76.798 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 76.798 ms
Loss rate: 0.33%
```

Run 5: Report of Sprout — Data Link

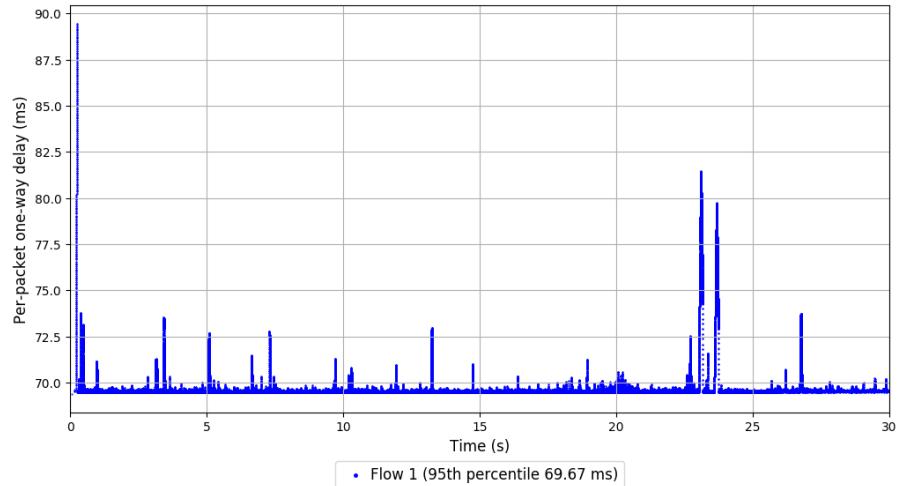
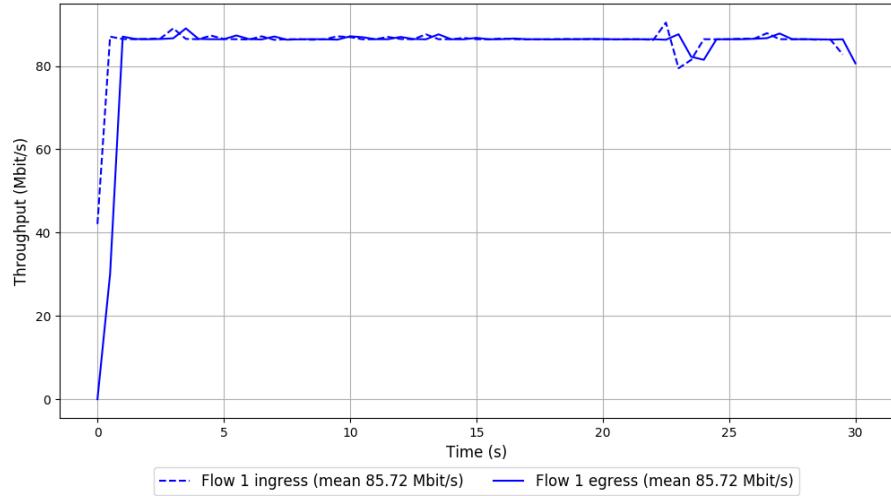


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-25 10:54:17
End at: 2019-01-25 10:54:47
Local clock offset: -2.149 ms
Remote clock offset: -8.988 ms

# Below is generated by plot.py at 2019-01-25 12:58:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 69.673 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 69.673 ms
Loss rate: 0.28%
```

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

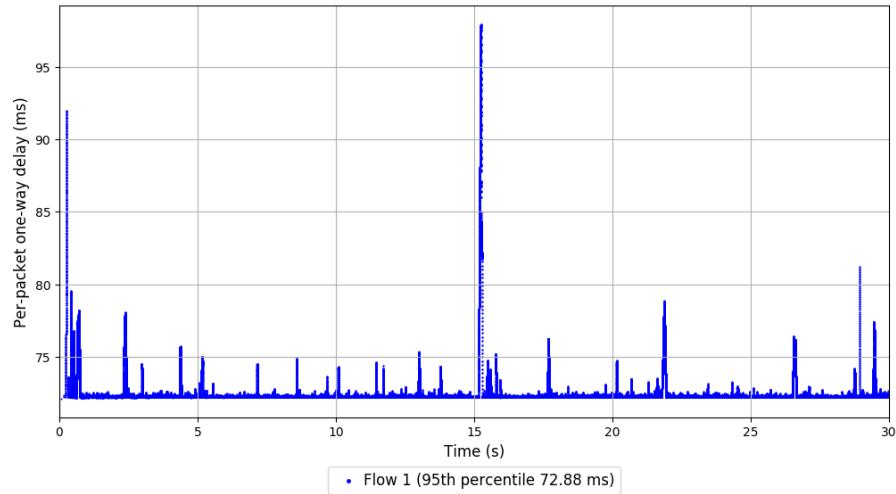
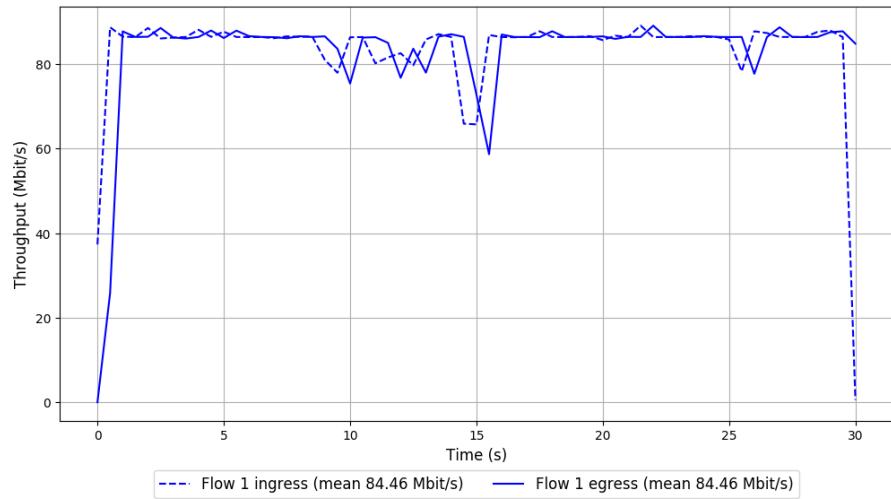


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-25 11:19:24
End at: 2019-01-25 11:19:54
Local clock offset: -2.863 ms
Remote clock offset: -5.777 ms

# Below is generated by plot.py at 2019-01-25 12:58:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.46 Mbit/s
95th percentile per-packet one-way delay: 72.880 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 84.46 Mbit/s
95th percentile per-packet one-way delay: 72.880 ms
Loss rate: 0.29%
```

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

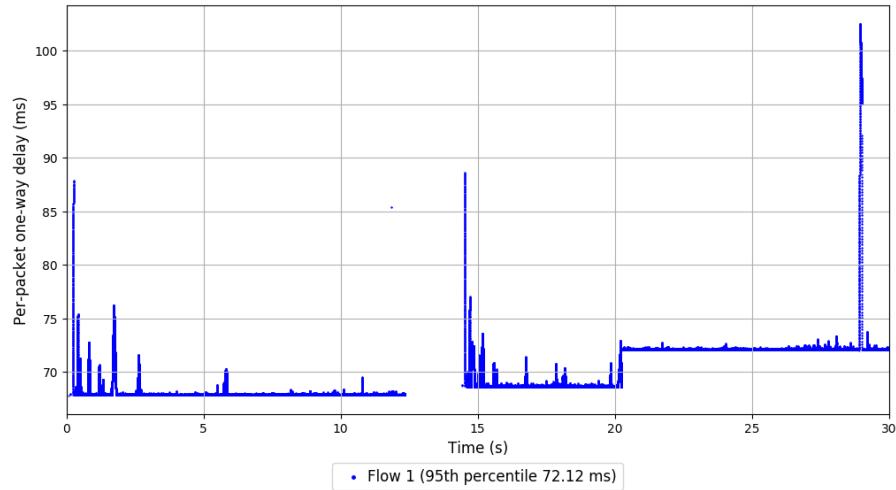
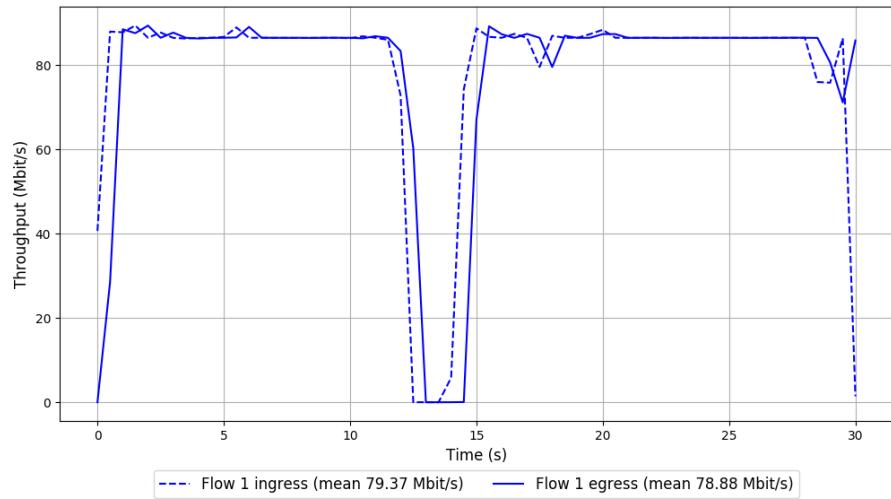


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-25 11:44:38
End at: 2019-01-25 11:45:08
Local clock offset: 0.418 ms
Remote clock offset: -0.793 ms

# Below is generated by plot.py at 2019-01-25 12:58:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.88 Mbit/s
95th percentile per-packet one-way delay: 72.124 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 78.88 Mbit/s
95th percentile per-packet one-way delay: 72.124 ms
Loss rate: 0.88%
```

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

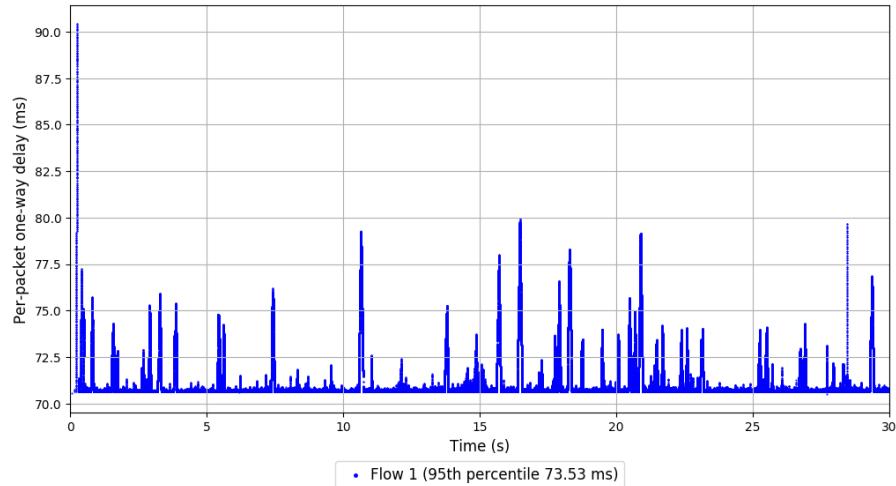
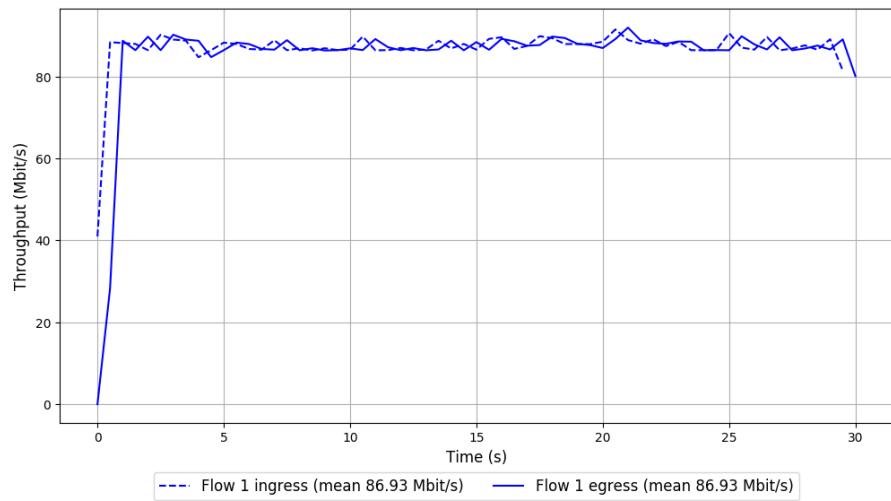


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-25 12:09:55
End at: 2019-01-25 12:10:25
Local clock offset: 1.399 ms
Remote clock offset: -0.343 ms

# Below is generated by plot.py at 2019-01-25 12:58:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.93 Mbit/s
95th percentile per-packet one-way delay: 73.527 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 86.93 Mbit/s
95th percentile per-packet one-way delay: 73.527 ms
Loss rate: 0.26%
```

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

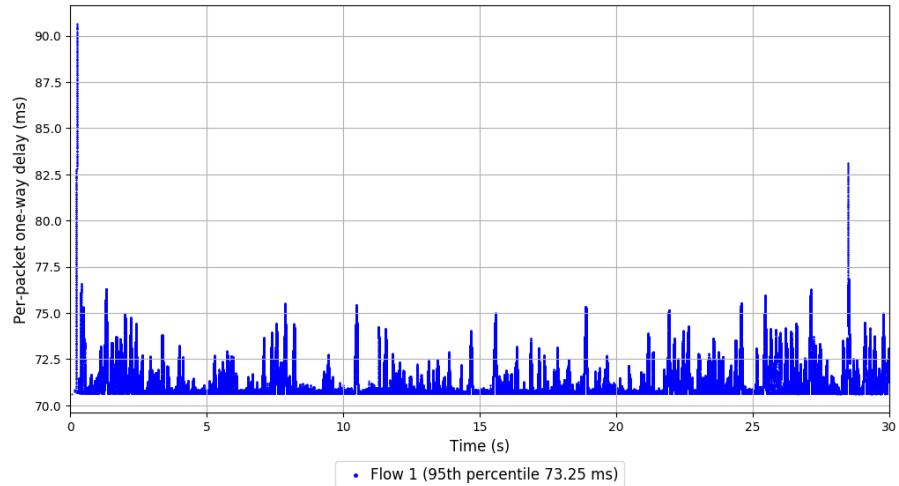
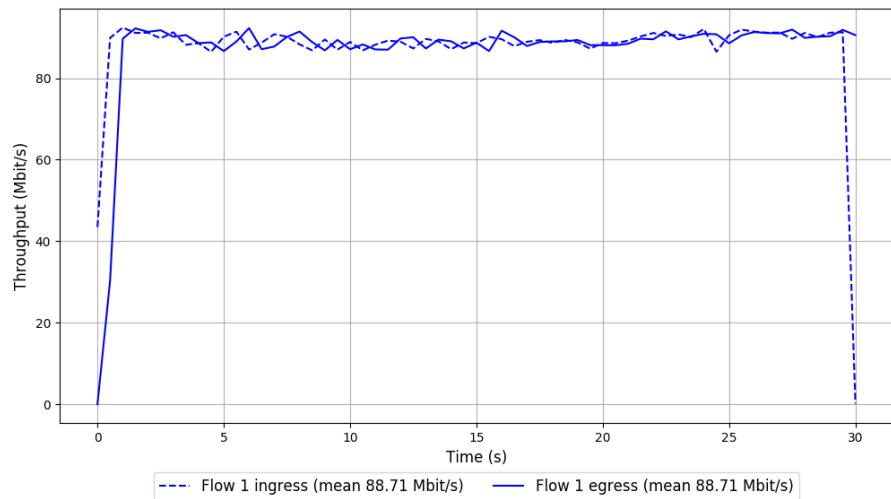


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-25 12:35:44
End at: 2019-01-25 12:36:14
Local clock offset: 0.533 ms
Remote clock offset: -2.209 ms

# Below is generated by plot.py at 2019-01-25 12:58:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.71 Mbit/s
95th percentile per-packet one-way delay: 73.255 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 88.71 Mbit/s
95th percentile per-packet one-way delay: 73.255 ms
Loss rate: 0.25%
```

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

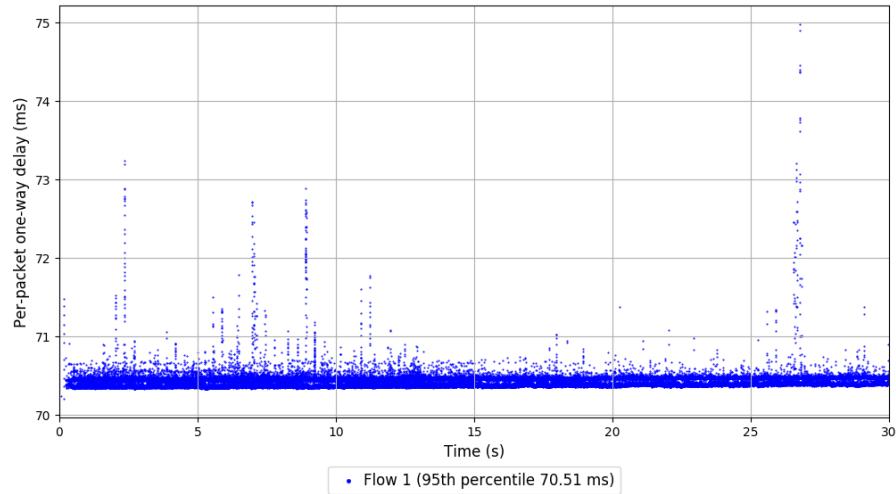
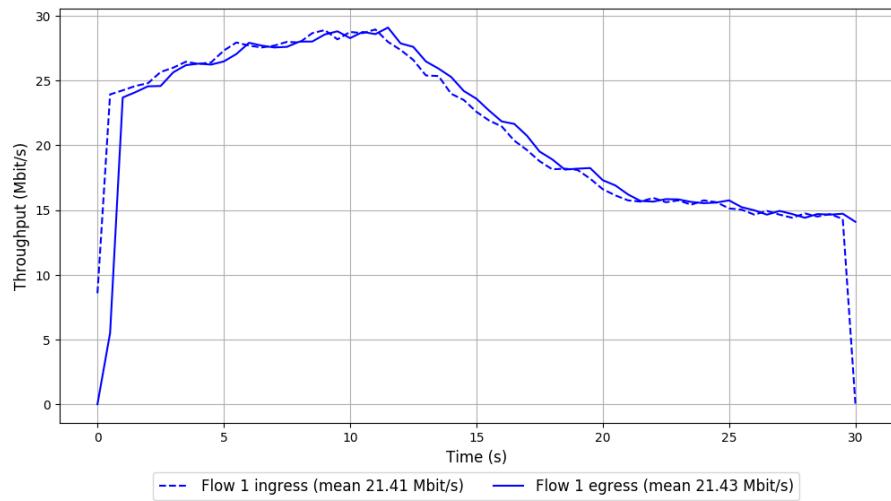


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-25 10:46:17
End at: 2019-01-25 10:46:47
Local clock offset: 0.754 ms
Remote clock offset: -6.144 ms

# Below is generated by plot.py at 2019-01-25 12:58:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.43 Mbit/s
95th percentile per-packet one-way delay: 70.511 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 21.43 Mbit/s
95th percentile per-packet one-way delay: 70.511 ms
Loss rate: 0.17%
```

Run 1: Report of TCP Vegas — Data Link

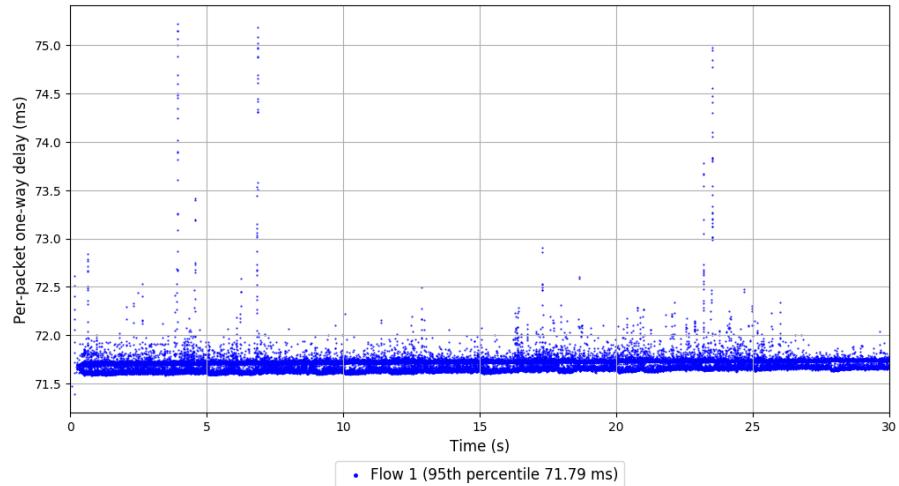
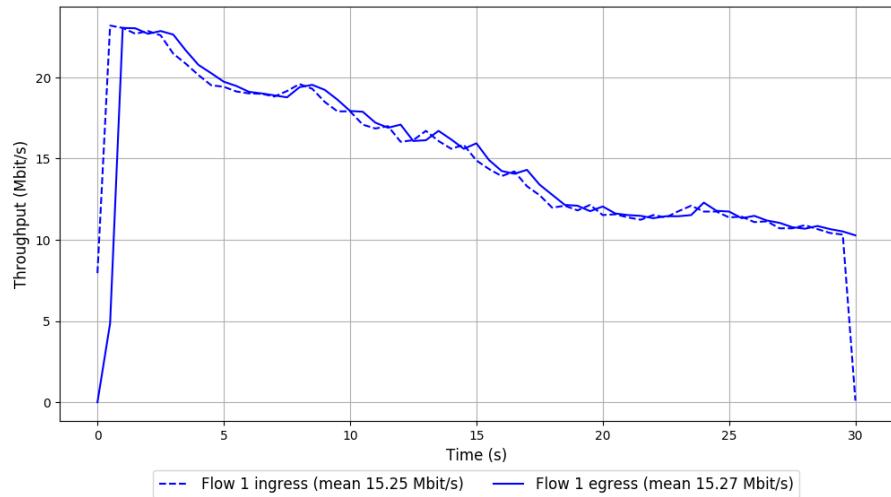


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-25 11:11:17
End at: 2019-01-25 11:11:47
Local clock offset: -1.878 ms
Remote clock offset: -4.832 ms

# Below is generated by plot.py at 2019-01-25 12:58:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.27 Mbit/s
95th percentile per-packet one-way delay: 71.790 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 15.27 Mbit/s
95th percentile per-packet one-way delay: 71.790 ms
Loss rate: 0.18%
```

Run 2: Report of TCP Vegas — Data Link

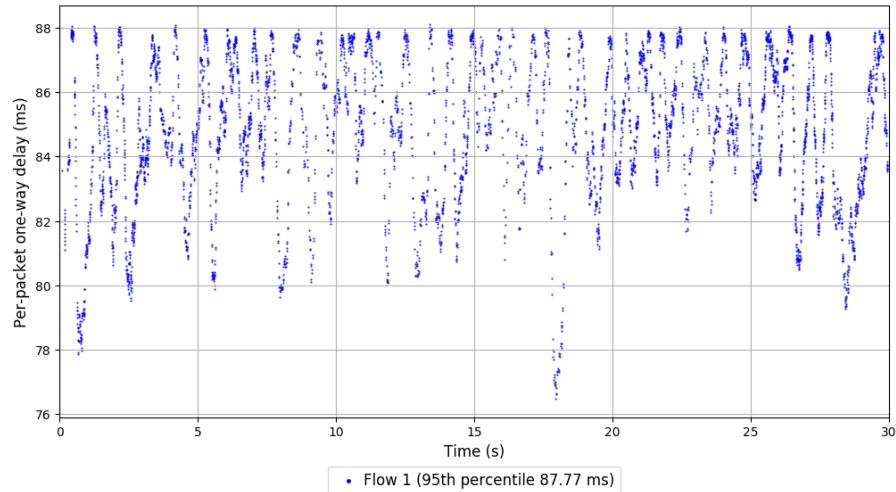
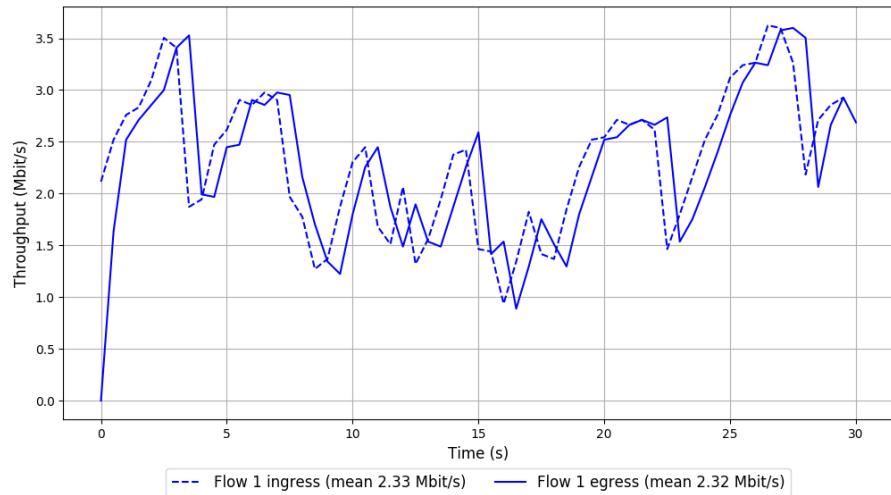


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-25 11:36:23
End at: 2019-01-25 11:36:53
Local clock offset: -0.029 ms
Remote clock offset: 15.823 ms

# Below is generated by plot.py at 2019-01-25 12:58:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 87.765 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 87.765 ms
Loss rate: 0.76%
```

Run 3: Report of TCP Vegas — Data Link

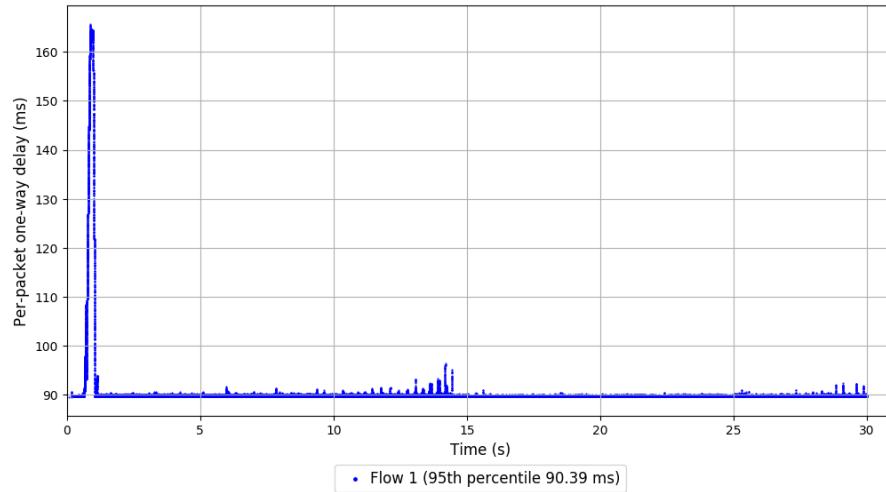
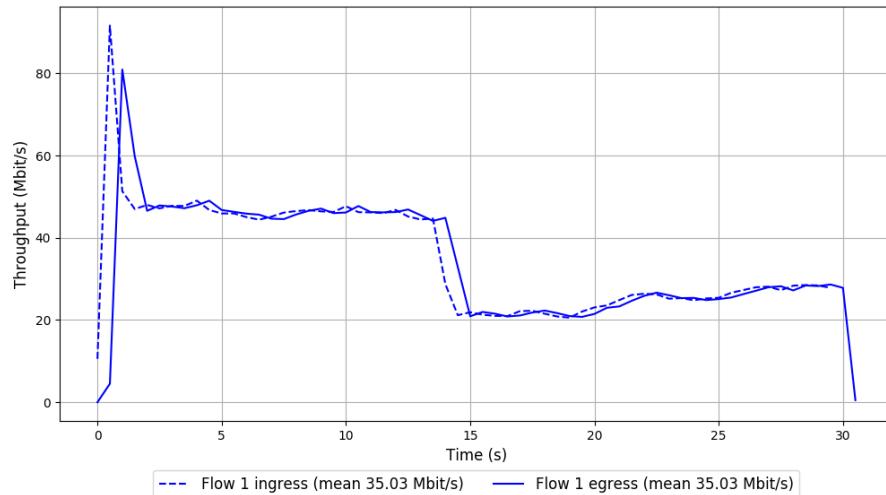


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-25 12:01:14
End at: 2019-01-25 12:01:44
Local clock offset: 2.03 ms
Remote clock offset: -19.767 ms

# Below is generated by plot.py at 2019-01-25 12:58:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.03 Mbit/s
95th percentile per-packet one-way delay: 90.385 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 35.03 Mbit/s
95th percentile per-packet one-way delay: 90.385 ms
Loss rate: 0.23%
```

Run 4: Report of TCP Vegas — Data Link

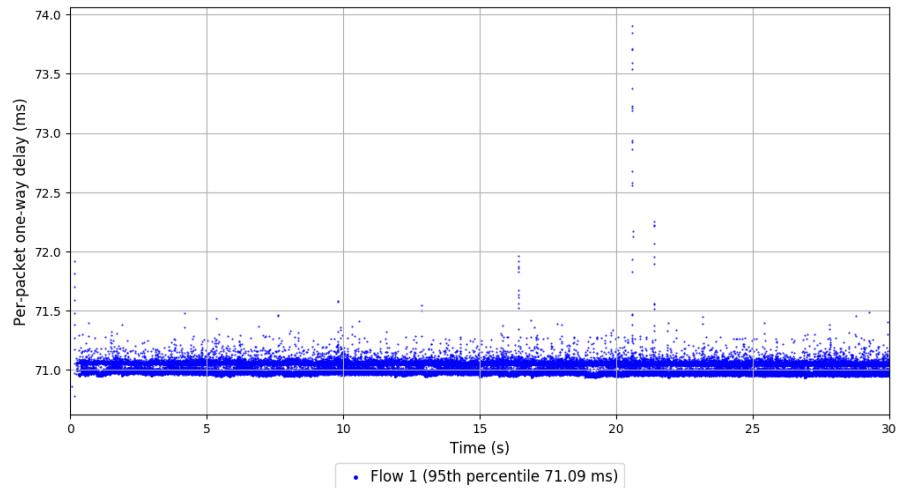
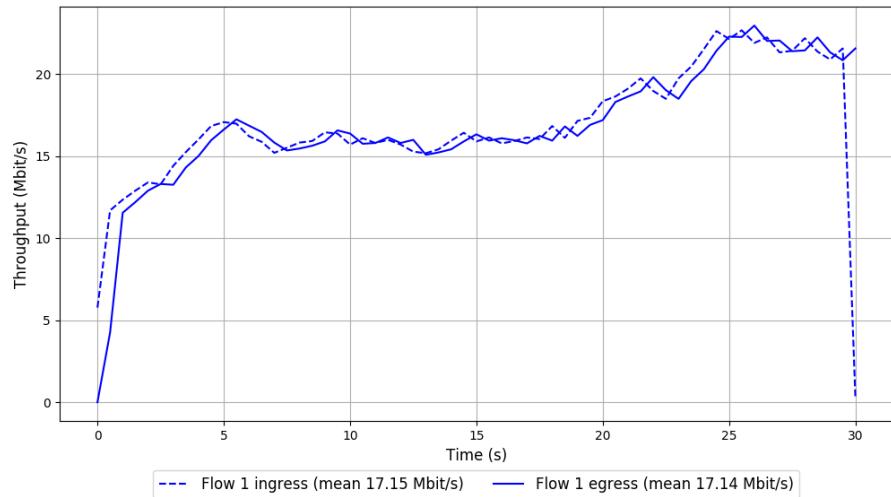


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-25 12:27:16
End at: 2019-01-25 12:27:46
Local clock offset: 1.108 ms
Remote clock offset: -1.185 ms

# Below is generated by plot.py at 2019-01-25 12:58:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.14 Mbit/s
95th percentile per-packet one-way delay: 71.088 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 17.14 Mbit/s
95th percentile per-packet one-way delay: 71.088 ms
Loss rate: 0.32%
```

Run 5: Report of TCP Vegas — Data Link

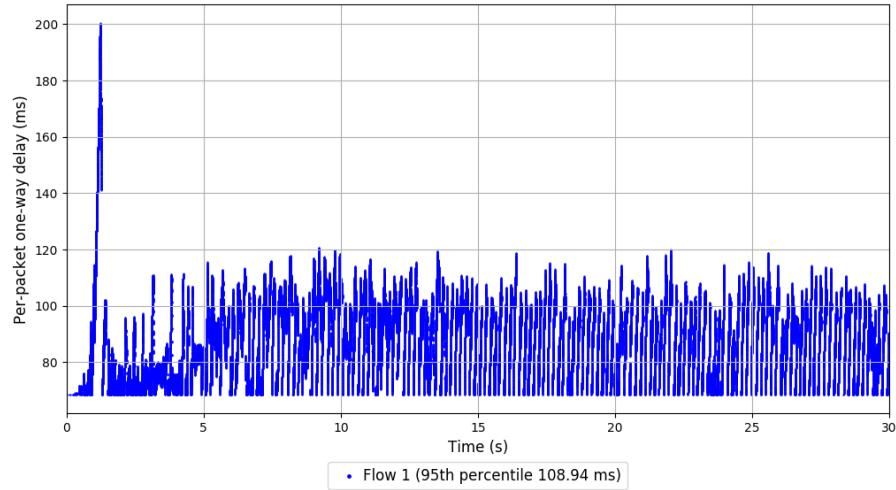
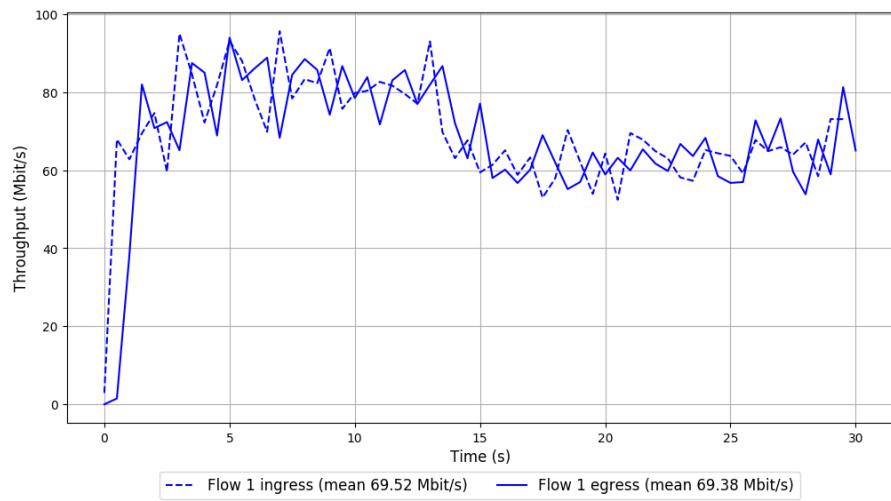


Run 1: Statistics of Verus

```
Start at: 2019-01-25 11:04:06
End at: 2019-01-25 11:04:36
Local clock offset: -1.383 ms
Remote clock offset: -6.481 ms

# Below is generated by plot.py at 2019-01-25 12:58:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.38 Mbit/s
95th percentile per-packet one-way delay: 108.942 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 69.38 Mbit/s
95th percentile per-packet one-way delay: 108.942 ms
Loss rate: 0.46%
```

Run 1: Report of Verus — Data Link

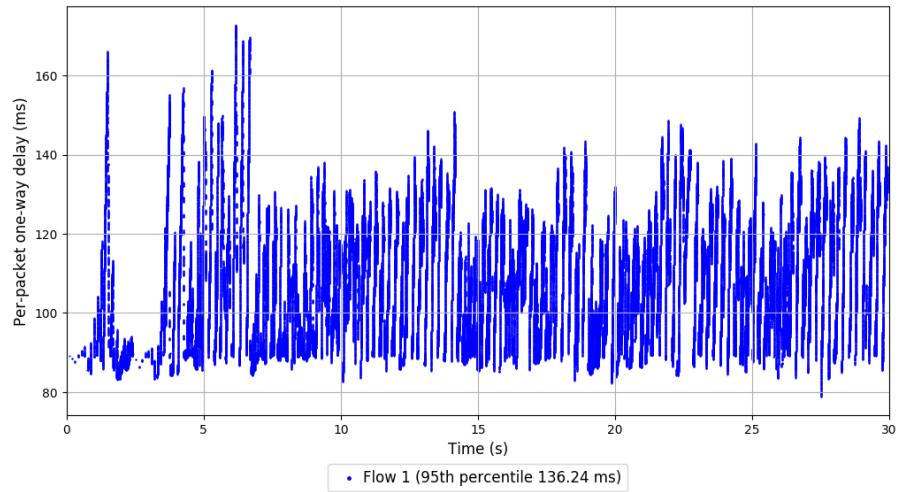
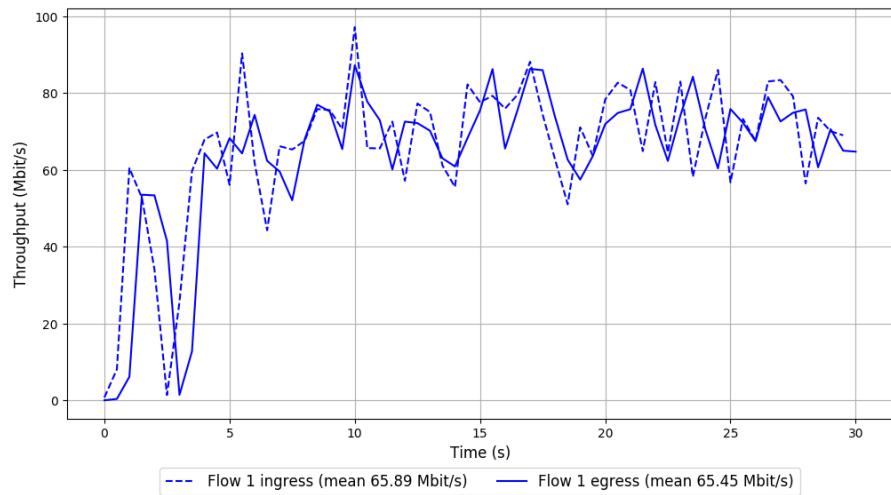


Run 2: Statistics of Verus

```
Start at: 2019-01-25 11:28:47
End at: 2019-01-25 11:29:17
Local clock offset: -1.357 ms
Remote clock offset: 12.864 ms

# Below is generated by plot.py at 2019-01-25 12:58:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.45 Mbit/s
95th percentile per-packet one-way delay: 136.236 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 65.45 Mbit/s
95th percentile per-packet one-way delay: 136.236 ms
Loss rate: 1.15%
```

Run 2: Report of Verus — Data Link

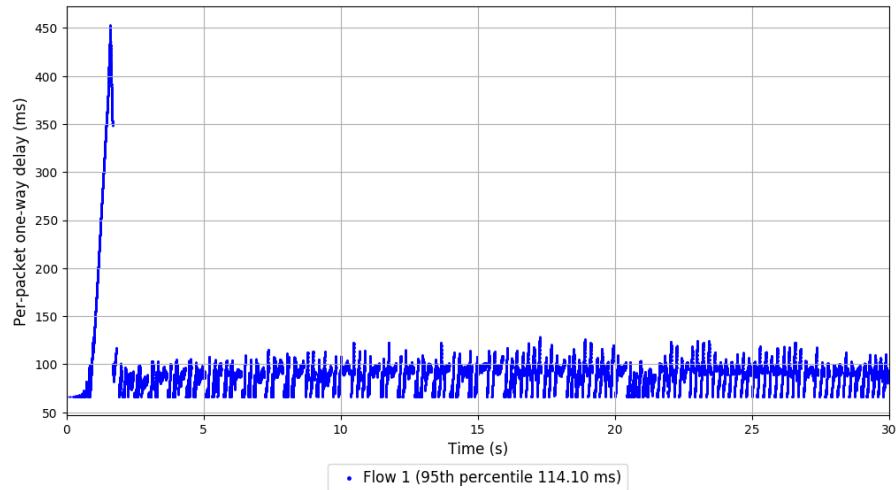
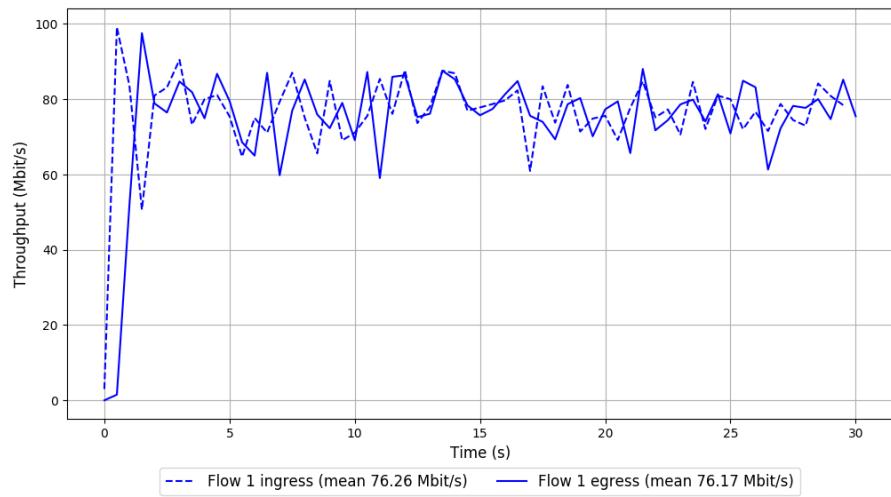


Run 3: Statistics of Verus

```
Start at: 2019-01-25 11:53:56
End at: 2019-01-25 11:54:26
Local clock offset: 0.257 ms
Remote clock offset: 0.412 ms

# Below is generated by plot.py at 2019-01-25 12:58:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.17 Mbit/s
95th percentile per-packet one-way delay: 114.102 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 76.17 Mbit/s
95th percentile per-packet one-way delay: 114.102 ms
Loss rate: 0.44%
```

Run 3: Report of Verus — Data Link

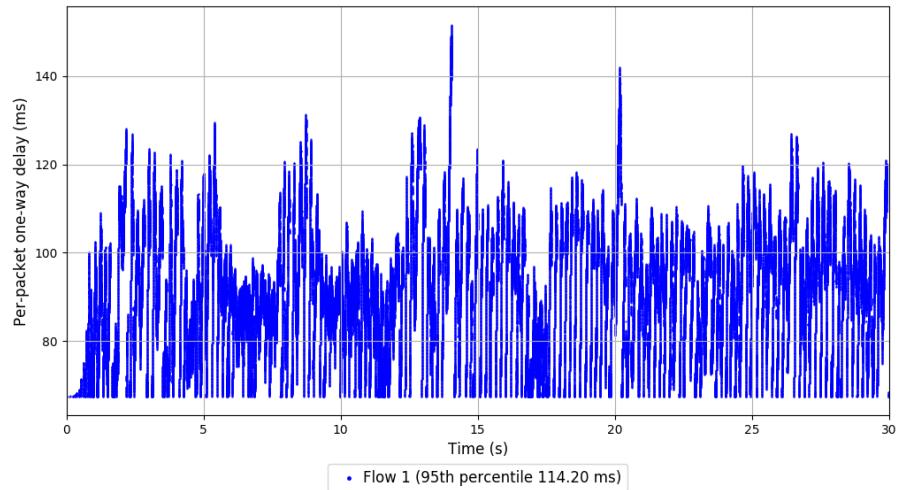
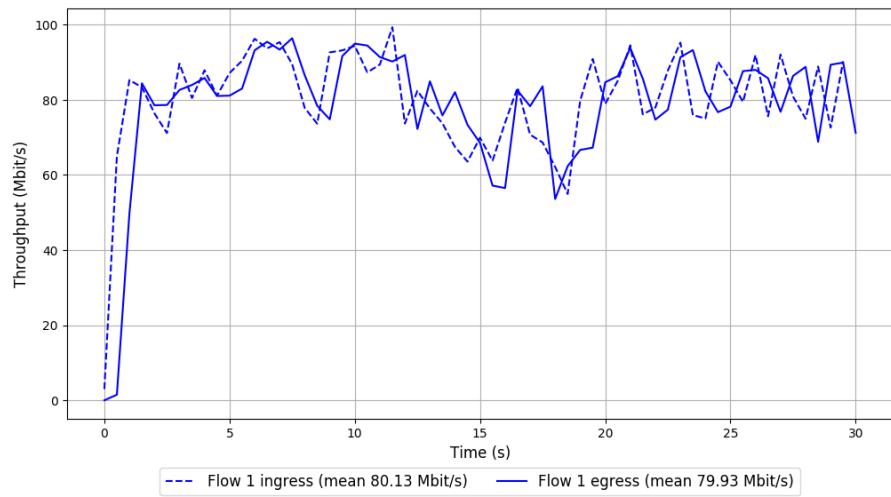


Run 4: Statistics of Verus

```
Start at: 2019-01-25 12:19:46
End at: 2019-01-25 12:20:16
Local clock offset: -0.403 ms
Remote clock offset: -1.024 ms

# Below is generated by plot.py at 2019-01-25 12:58:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.93 Mbit/s
95th percentile per-packet one-way delay: 114.199 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 79.93 Mbit/s
95th percentile per-packet one-way delay: 114.199 ms
Loss rate: 0.49%
```

Run 4: Report of Verus — Data Link

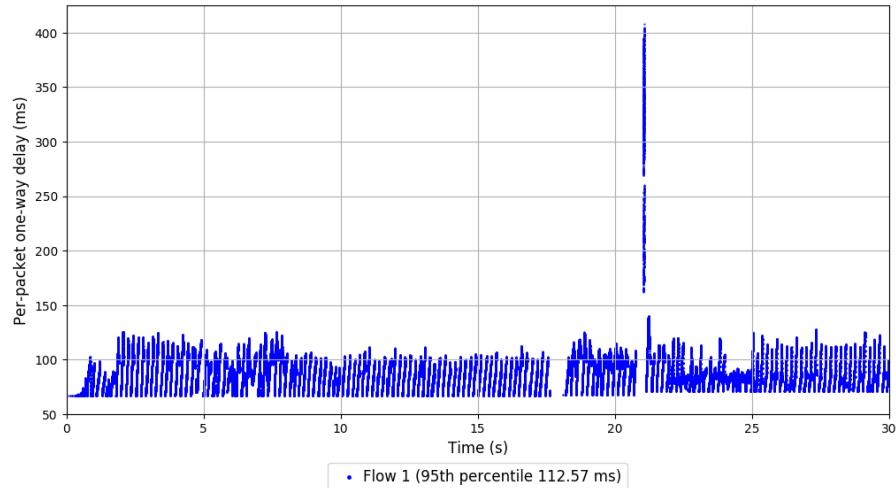
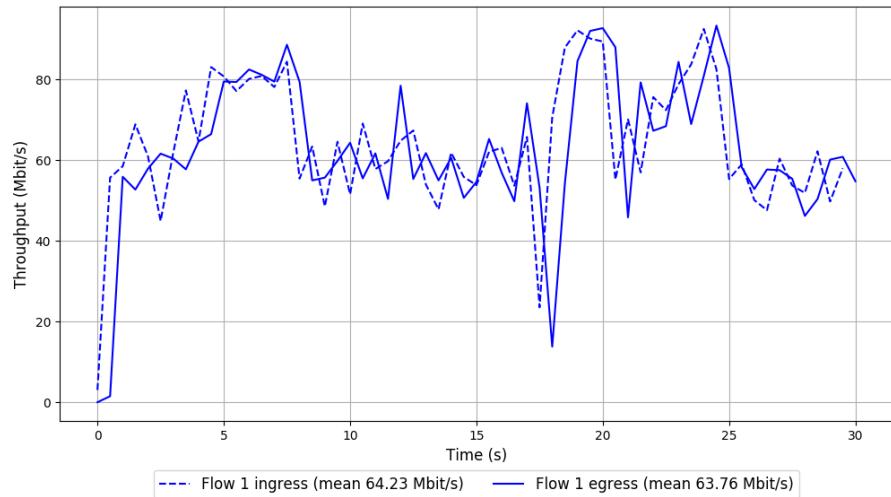


Run 5: Statistics of Verus

```
Start at: 2019-01-25 12:45:38
End at: 2019-01-25 12:46:08
Local clock offset: -0.054 ms
Remote clock offset: -0.682 ms

# Below is generated by plot.py at 2019-01-25 12:58:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.76 Mbit/s
95th percentile per-packet one-way delay: 112.573 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 63.76 Mbit/s
95th percentile per-packet one-way delay: 112.573 ms
Loss rate: 0.85%
```

Run 5: Report of Verus — Data Link

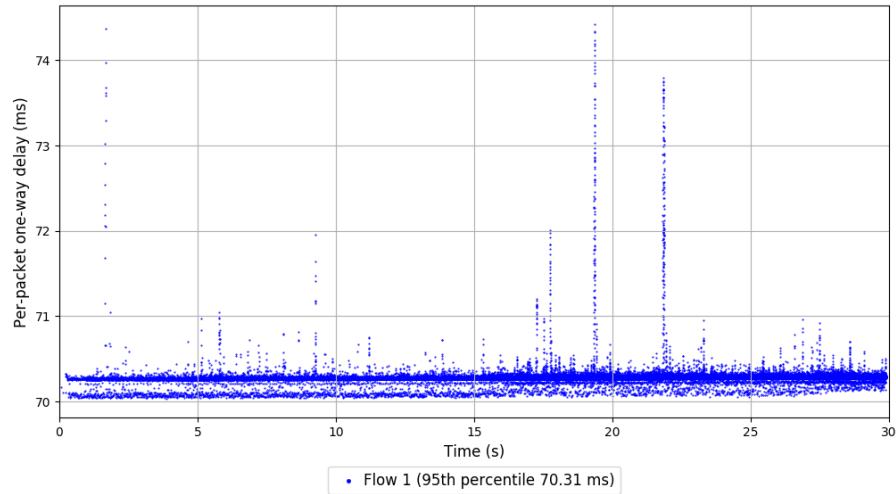
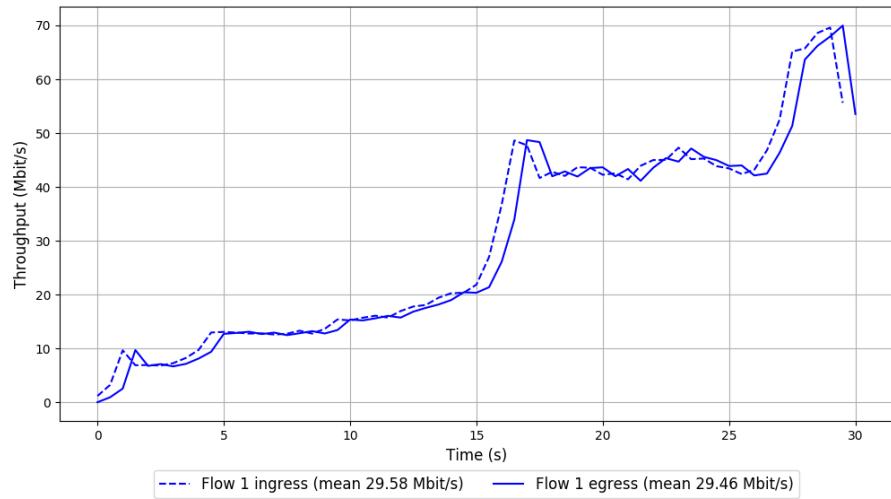


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-25 10:50:51
End at: 2019-01-25 10:51:21
Local clock offset: -0.751 ms
Remote clock offset: -8.066 ms

# Below is generated by plot.py at 2019-01-25 12:58:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.46 Mbit/s
95th percentile per-packet one-way delay: 70.307 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 29.46 Mbit/s
95th percentile per-packet one-way delay: 70.307 ms
Loss rate: 0.65%
```

Run 1: Report of PCC-Vivace — Data Link

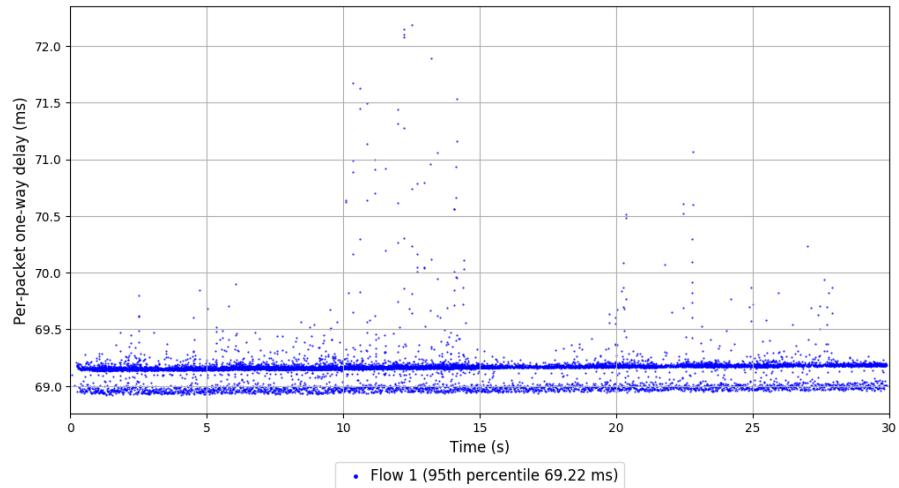
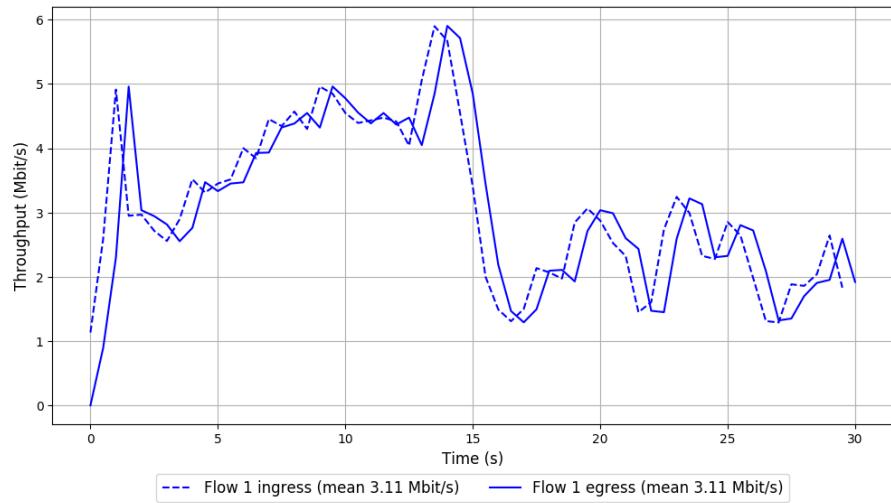


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-25 11:16:00
End at: 2019-01-25 11:16:30
Local clock offset: -2.232 ms
Remote clock offset: -1.865 ms

# Below is generated by plot.py at 2019-01-25 12:58:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 69.220 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 69.220 ms
Loss rate: 0.17%
```

Run 2: Report of PCC-Vivace — Data Link

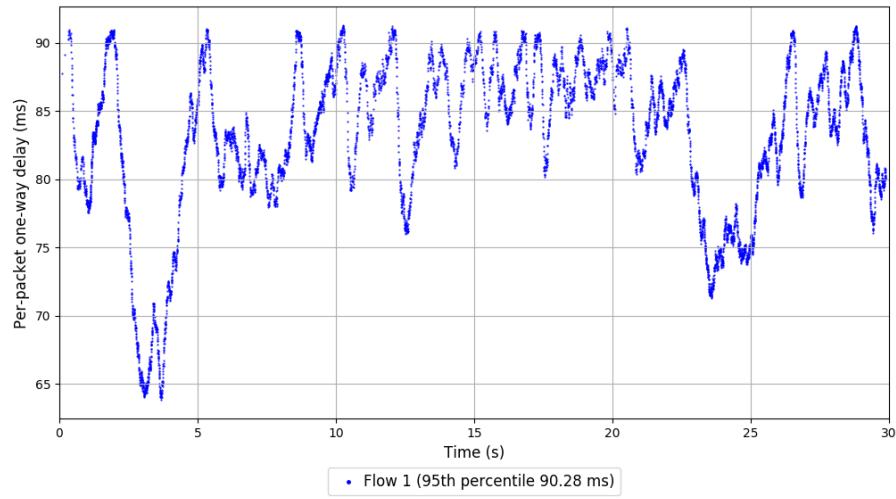
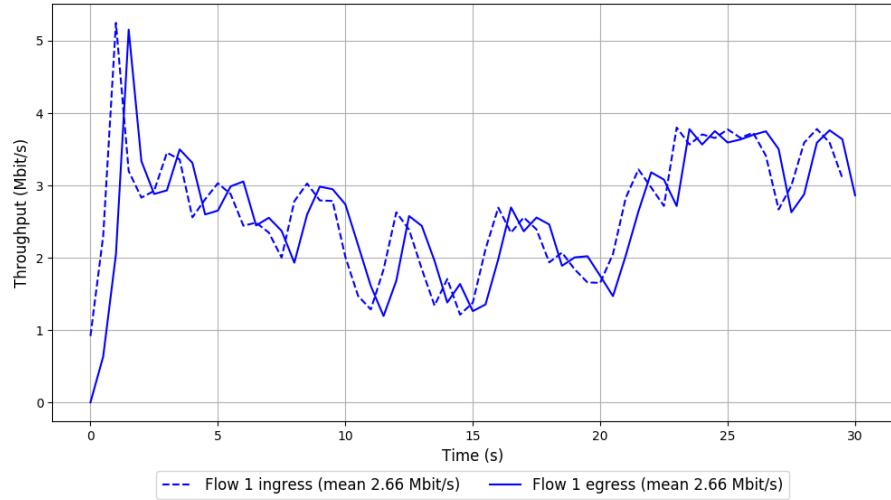


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-25 11:41:11
End at: 2019-01-25 11:41:41
Local clock offset: 2.516 ms
Remote clock offset: 13.498 ms

# Below is generated by plot.py at 2019-01-25 12:58:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 90.275 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 90.275 ms
Loss rate: 0.60%
```

Run 3: Report of PCC-Vivace — Data Link

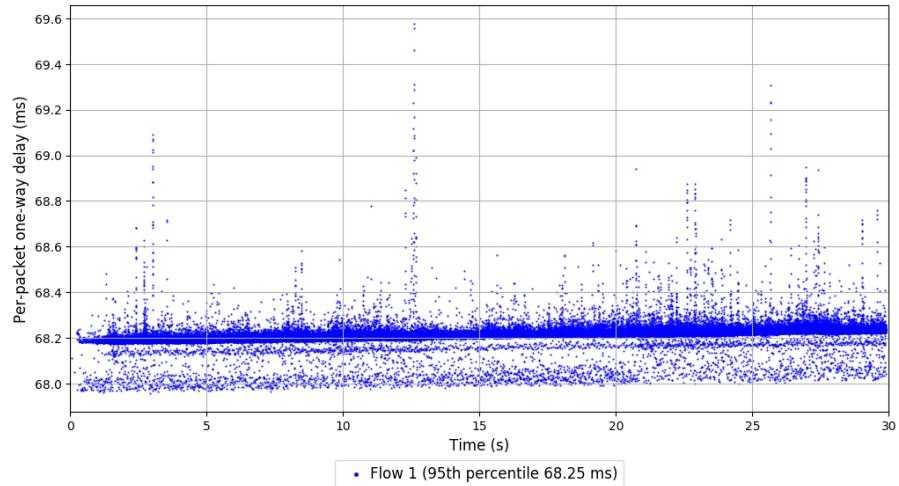
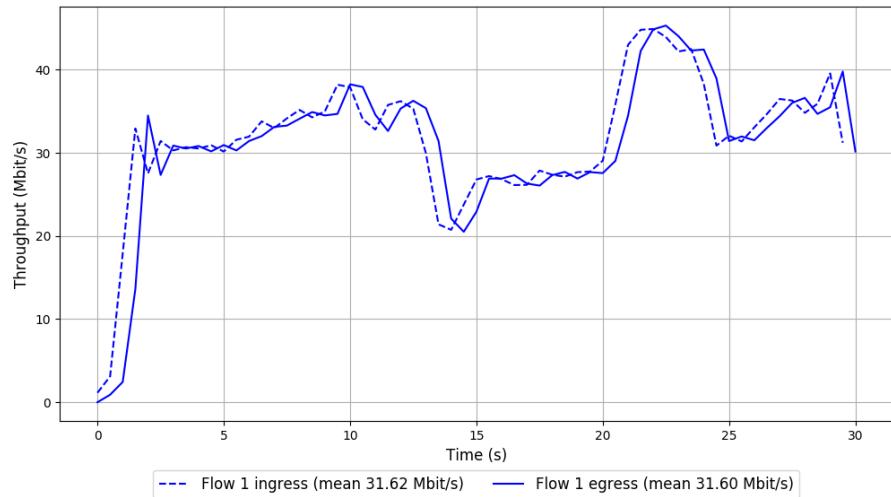


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-25 12:06:18
End at: 2019-01-25 12:06:48
Local clock offset: -1.491 ms
Remote clock offset: -1.114 ms

# Below is generated by plot.py at 2019-01-25 12:58:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 68.251 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 68.251 ms
Loss rate: 0.33%
```

Run 4: Report of PCC-Vivace — Data Link

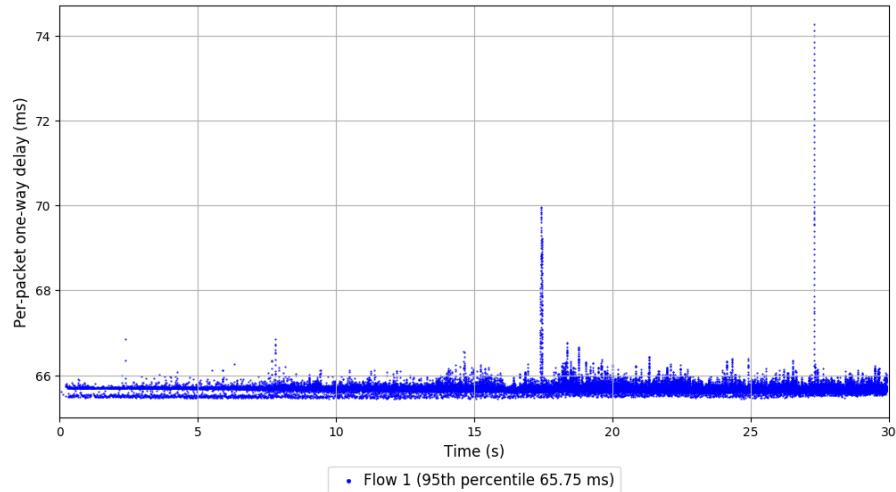
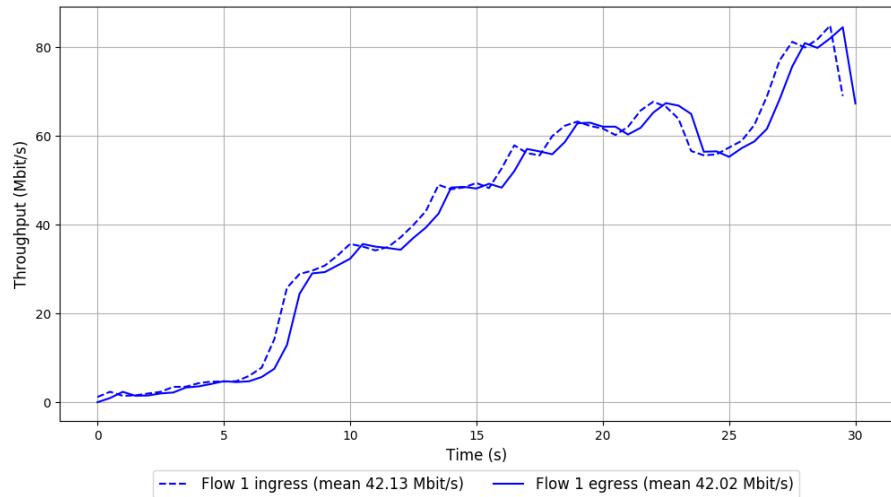


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-25 12:32:08
End at: 2019-01-25 12:32:38
Local clock offset: -1.889 ms
Remote clock offset: -0.558 ms

# Below is generated by plot.py at 2019-01-25 12:58:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.02 Mbit/s
95th percentile per-packet one-way delay: 65.755 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 42.02 Mbit/s
95th percentile per-packet one-way delay: 65.755 ms
Loss rate: 0.51%
```

Run 5: Report of PCC-Vivace — Data Link

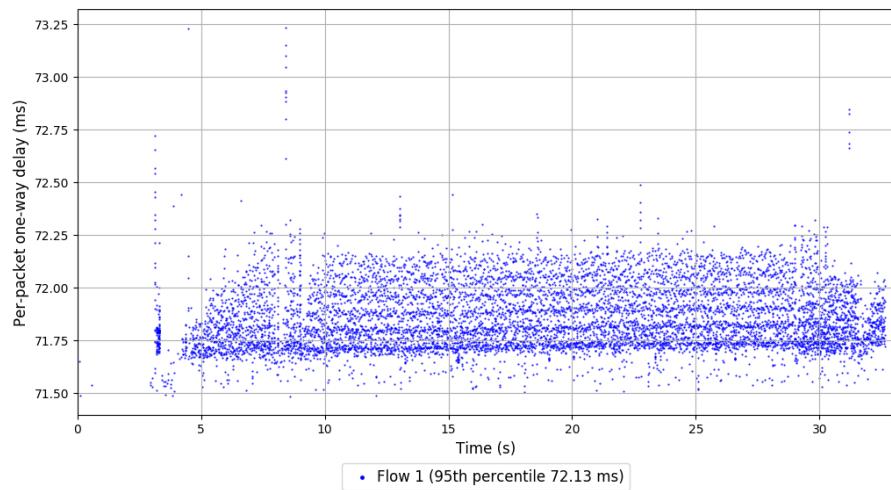
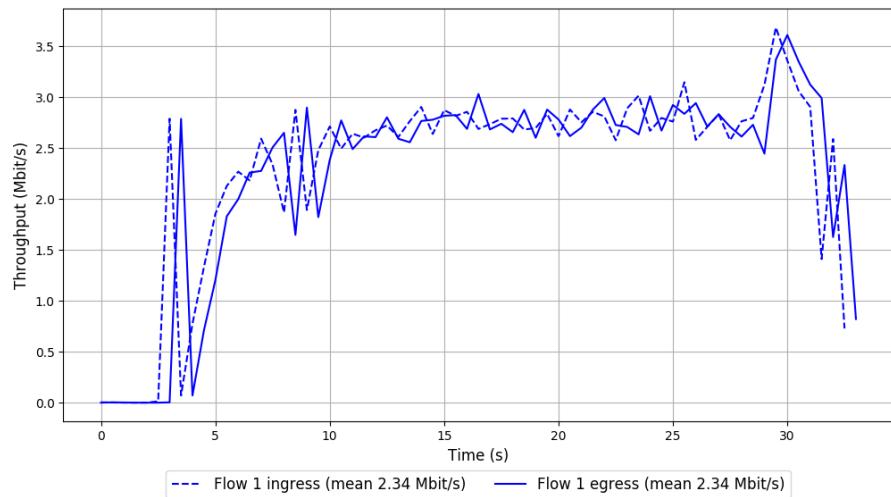


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-25 10:59:10
End at: 2019-01-25 10:59:40
Local clock offset: -2.47 ms
Remote clock offset: -11.229 ms

# Below is generated by plot.py at 2019-01-25 12:58:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 72.133 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 72.133 ms
Loss rate: 0.24%
```

Run 1: Report of WebRTC media — Data Link

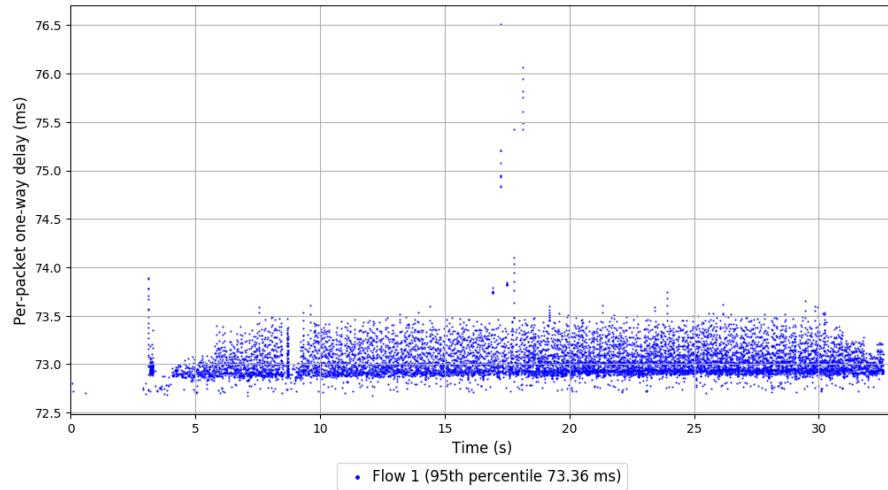
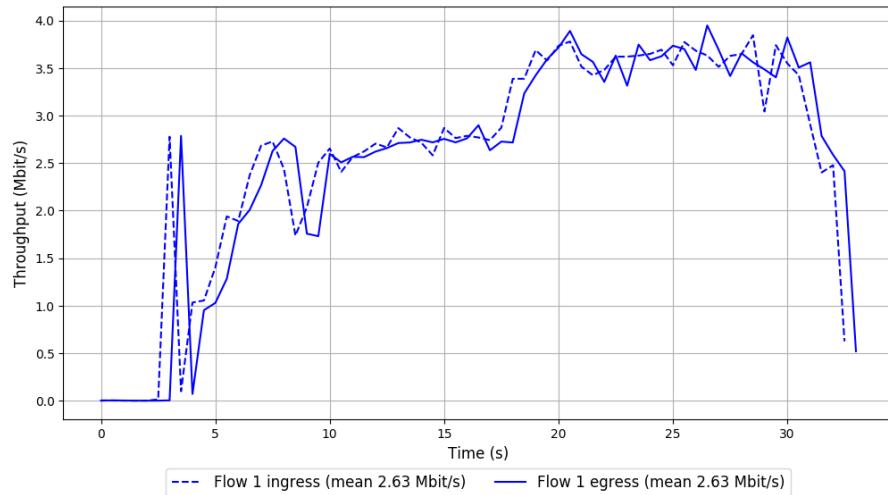


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-25 11:24:11
End at: 2019-01-25 11:24:41
Local clock offset: -0.582 ms
Remote clock offset: -3.342 ms

# Below is generated by plot.py at 2019-01-25 12:58:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.63 Mbit/s
95th percentile per-packet one-way delay: 73.355 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 2.63 Mbit/s
95th percentile per-packet one-way delay: 73.355 ms
Loss rate: 0.39%
```

Run 2: Report of WebRTC media — Data Link

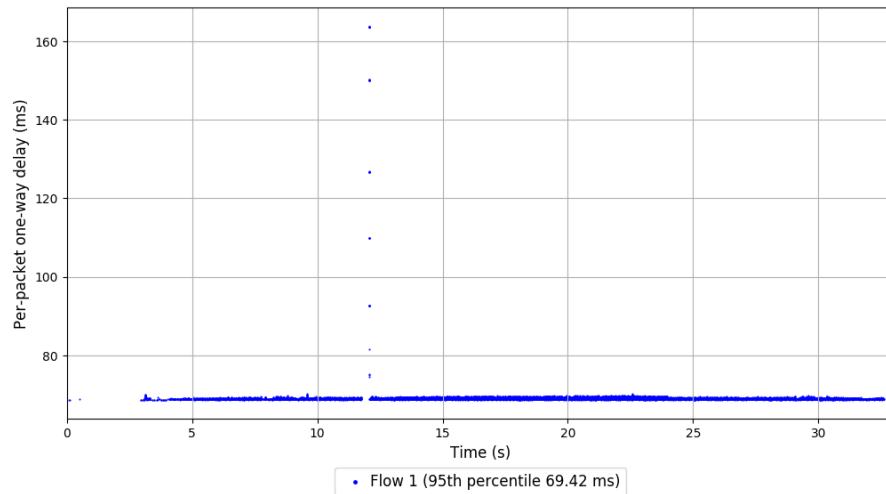
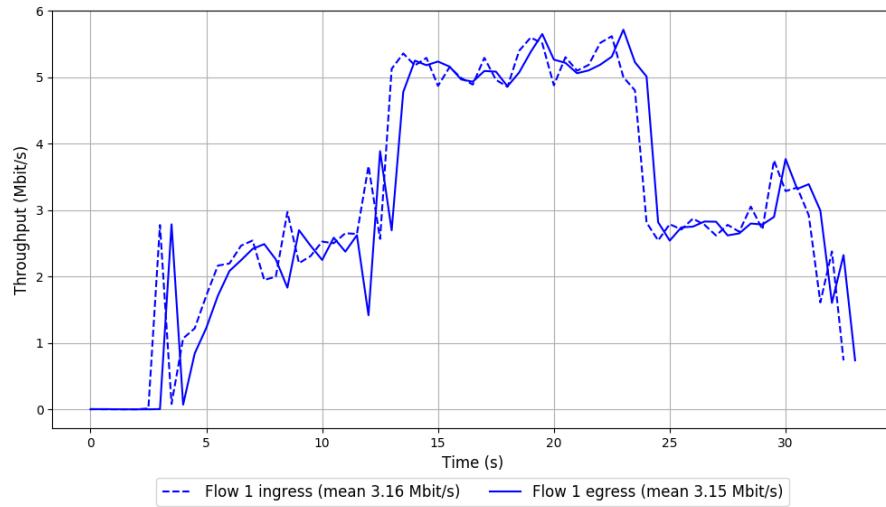


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-25 11:49:21
End at: 2019-01-25 11:49:51
Local clock offset: 0.536 ms
Remote clock offset: -0.571 ms

# Below is generated by plot.py at 2019-01-25 12:58:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 69.425 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 69.425 ms
Loss rate: 0.66%
```

Run 3: Report of WebRTC media — Data Link

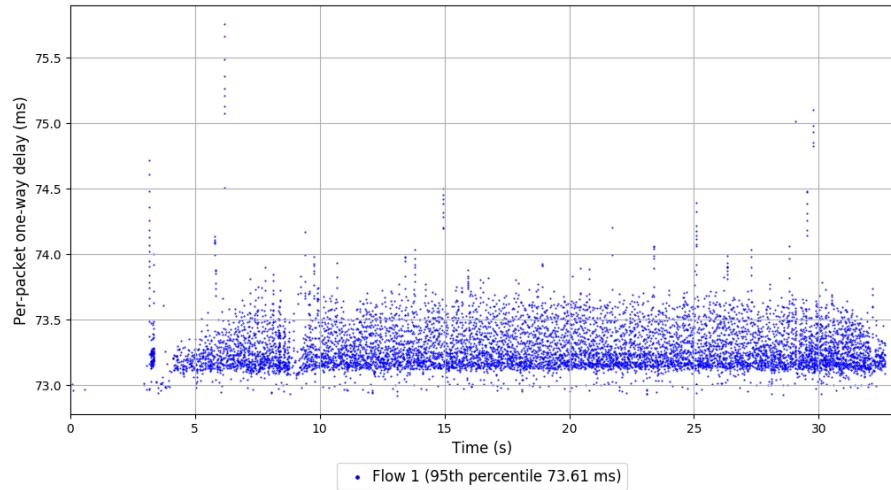
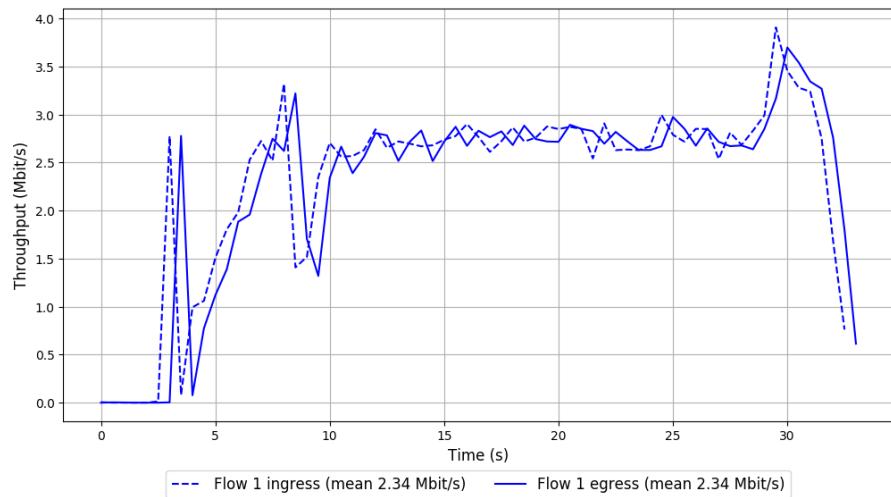


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-25 12:14:50
End at: 2019-01-25 12:15:20
Local clock offset: -0.39 ms
Remote clock offset: -4.629 ms

# Below is generated by plot.py at 2019-01-25 12:58:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 73.613 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 73.613 ms
Loss rate: 0.25%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-25 12:40:43
End at: 2019-01-25 12:41:13
Local clock offset: 1.942 ms
Remote clock offset: -2.845 ms

# Below is generated by plot.py at 2019-01-25 12:58:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 71.537 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 71.537 ms
Loss rate: 0.25%
```

Run 5: Report of WebRTC media — Data Link

