

Pantheon Report

Generated at 2019-06-28 08:24:11 (UTC).
Data path: Colombia on p4p1 (*remote*) → AWS Brazil 2 on ens5 (*local*).
Repeated the test of 22 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

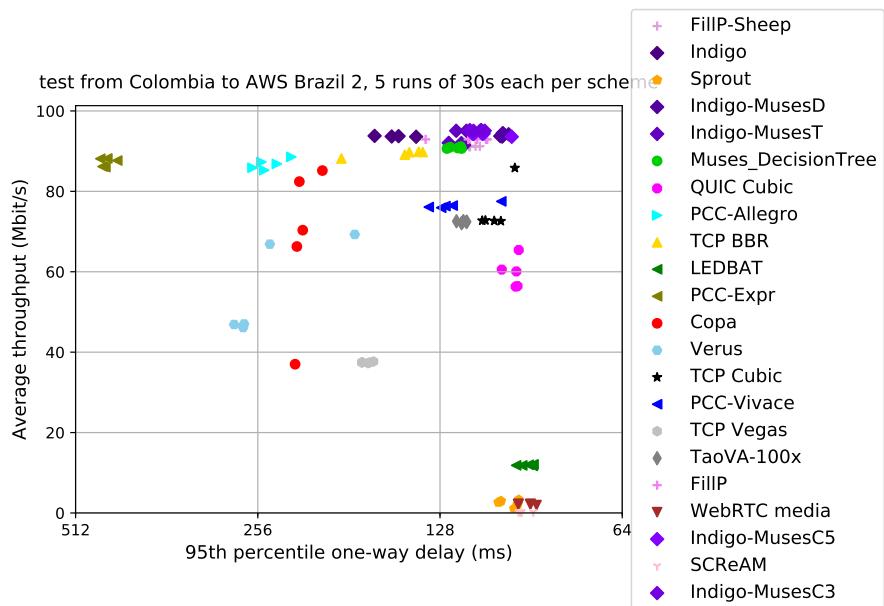
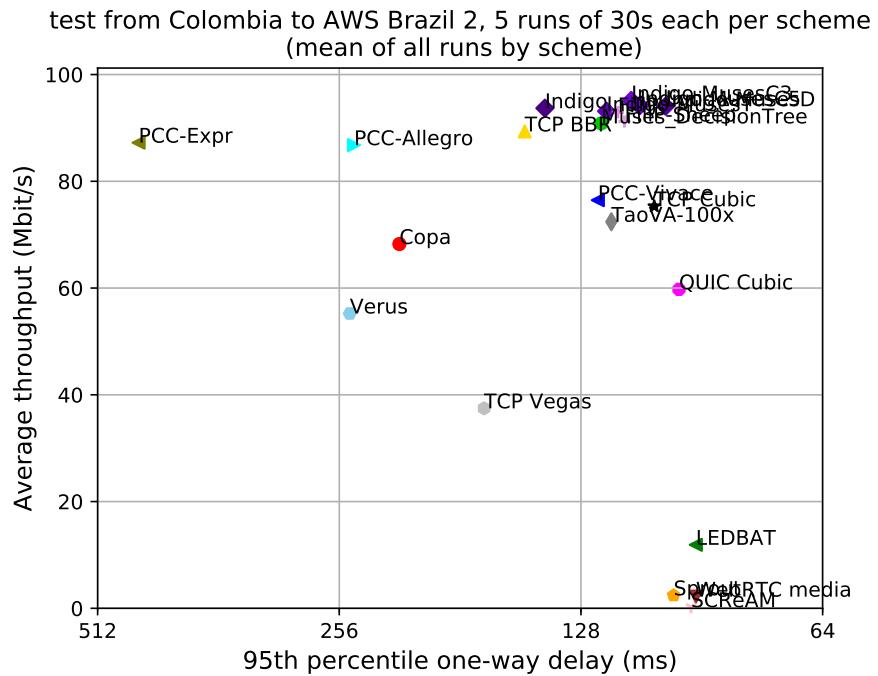
System info:

```
Linux 4.15.0-1039-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 @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
M helpers/_init_.pyc
M helpers/context.py
M helpers/utils.py
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
```

```
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```



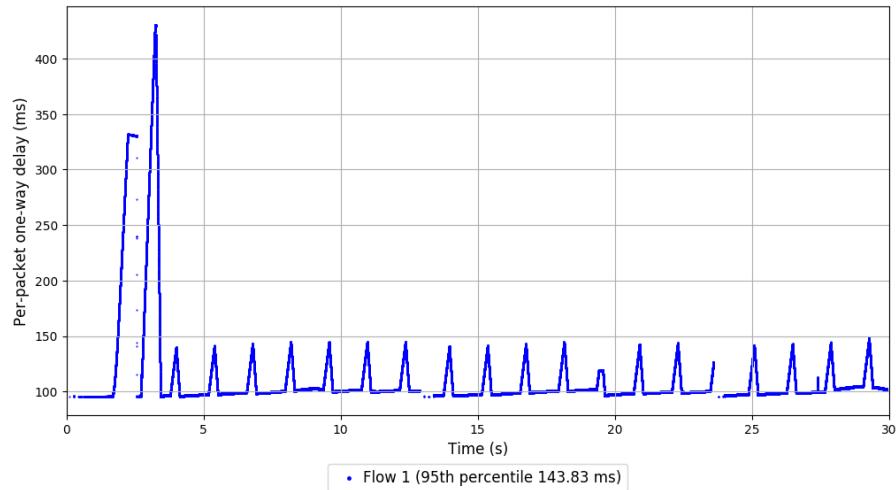
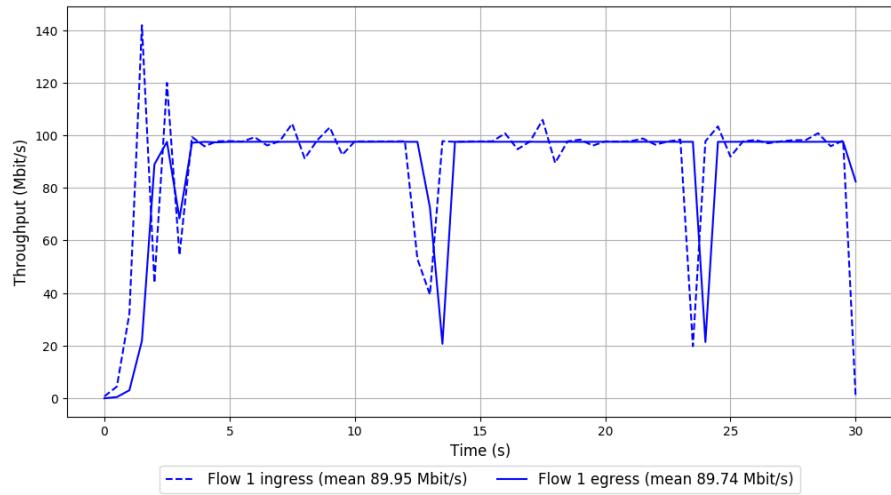
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	89.34	150.40	0.89
Copa	5	68.25	215.46	0.93
TCP Cubic	5	75.32	103.73	0.63
FillP	5	92.93	115.16	0.63
FillP-Sheep	5	91.19	112.97	0.68
Indigo	5	93.70	141.95	1.15
Indigo-MusesC3	5	95.16	110.82	6.94
Indigo-MusesC5	5	94.18	108.11	5.96
Indigo-MusesD	5	94.06	100.41	0.96
Indigo-MusesT	5	93.13	118.95	7.58
LEDBAT	5	11.89	92.08	1.16
Muses_DecisionTree	5	90.85	120.76	0.75
PCC-Allegro	5	86.77	245.39	0.71
PCC-Expr	5	87.23	455.23	1.34
QUIC Cubic	5	59.76	96.63	0.88
SCReAM	5	0.22	93.36	0.54
Sprout	5	2.43	98.13	0.91
TaoVA-100x	5	72.41	117.32	0.56
TCP Vegas	5	37.46	168.98	0.68
Verus	5	55.23	248.41	1.44
PCC-Vivace	5	76.46	121.96	0.76
WebRTC media	5	2.18	92.05	0.37

Run 1: Statistics of TCP BBR

```
Start at: 2019-06-28 06:06:34
End at: 2019-06-28 06:07:04
Local clock offset: -8.023 ms
Remote clock offset: 41.693 ms

# Below is generated by plot.py at 2019-06-28 08:11:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.74 Mbit/s
95th percentile per-packet one-way delay: 143.828 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 89.74 Mbit/s
95th percentile per-packet one-way delay: 143.828 ms
Loss rate: 0.82%
```

Run 1: Report of TCP BBR — Data Link

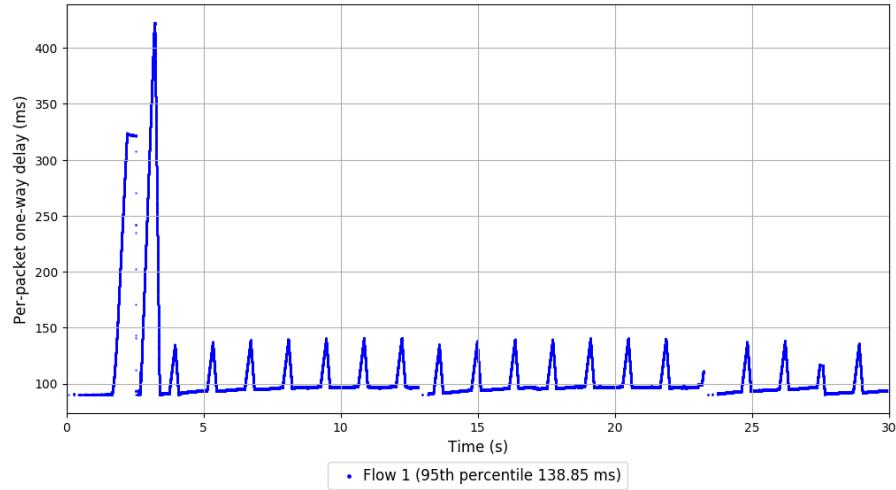
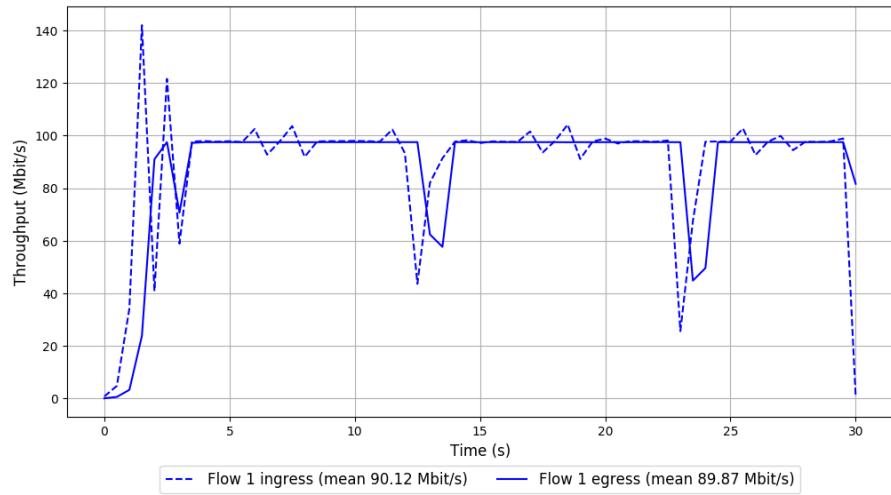


Run 2: Statistics of TCP BBR

```
Start at: 2019-06-28 06:32:57
End at: 2019-06-28 06:33:27
Local clock offset: -6.58 ms
Remote clock offset: 59.91 ms

# Below is generated by plot.py at 2019-06-28 08:11:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 138.847 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 138.847 ms
Loss rate: 0.85%
```

Run 2: Report of TCP BBR — Data Link

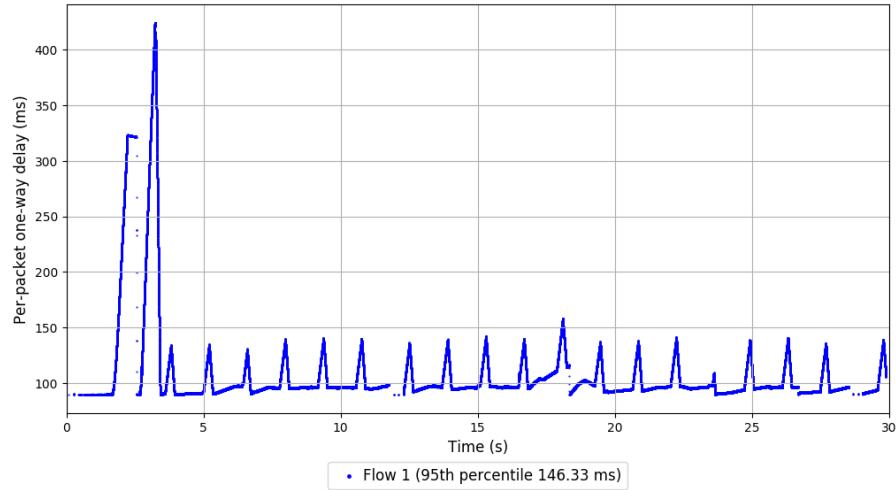
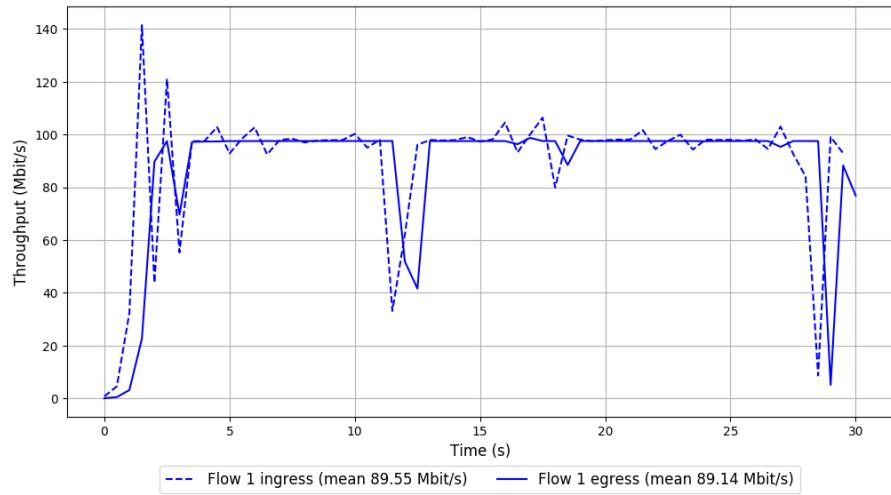


Run 3: Statistics of TCP BBR

```
Start at: 2019-06-28 06:59:08
End at: 2019-06-28 06:59:38
Local clock offset: -6.666 ms
Remote clock offset: 73.379 ms

# Below is generated by plot.py at 2019-06-28 08:11:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.14 Mbit/s
95th percentile per-packet one-way delay: 146.329 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 89.14 Mbit/s
95th percentile per-packet one-way delay: 146.329 ms
Loss rate: 1.03%
```

Run 3: Report of TCP BBR — Data Link

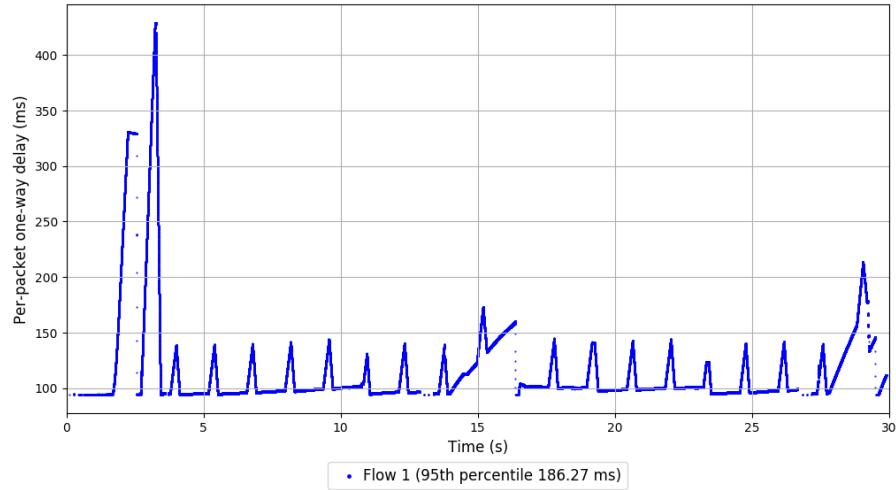
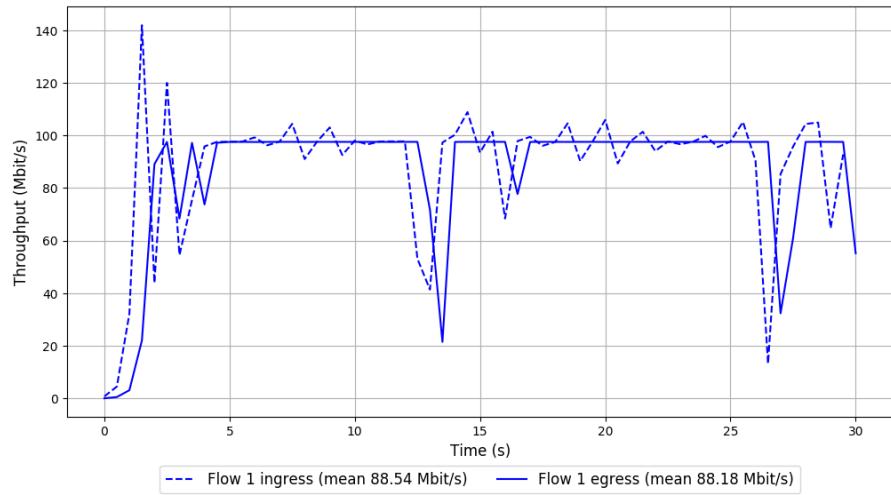


Run 4: Statistics of TCP BBR

```
Start at: 2019-06-28 07:25:21
End at: 2019-06-28 07:25:51
Local clock offset: -6.522 ms
Remote clock offset: 82.723 ms

# Below is generated by plot.py at 2019-06-28 08:11:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.18 Mbit/s
95th percentile per-packet one-way delay: 186.266 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 88.18 Mbit/s
95th percentile per-packet one-way delay: 186.266 ms
Loss rate: 0.98%
```

Run 4: Report of TCP BBR — Data Link

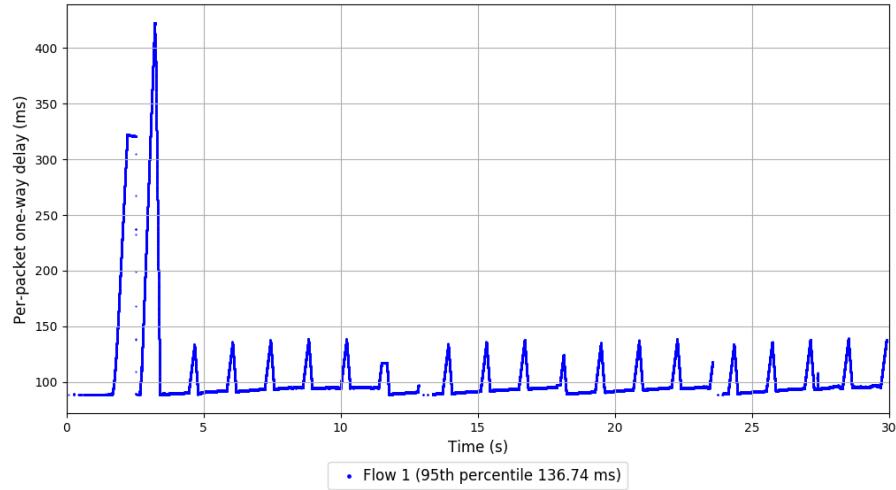
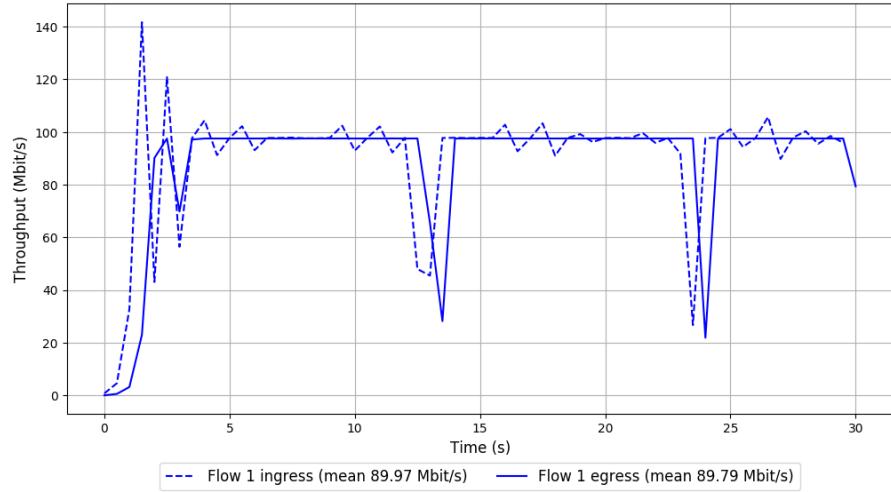


Run 5: Statistics of TCP BBR

```
Start at: 2019-06-28 07:51:31
End at: 2019-06-28 07:52:01
Local clock offset: -6.289 ms
Remote clock offset: 100.963 ms

# Below is generated by plot.py at 2019-06-28 08:11:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.79 Mbit/s
95th percentile per-packet one-way delay: 136.739 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 89.79 Mbit/s
95th percentile per-packet one-way delay: 136.739 ms
Loss rate: 0.78%
```

Run 5: Report of TCP BBR — Data Link

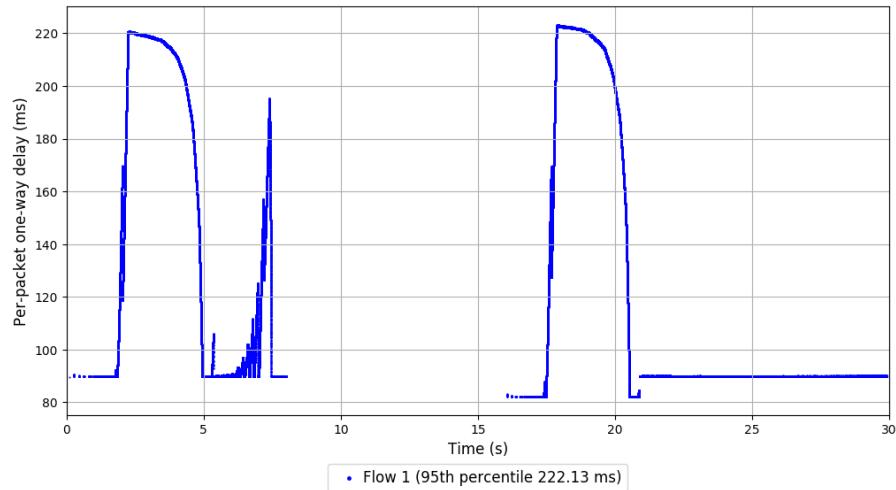
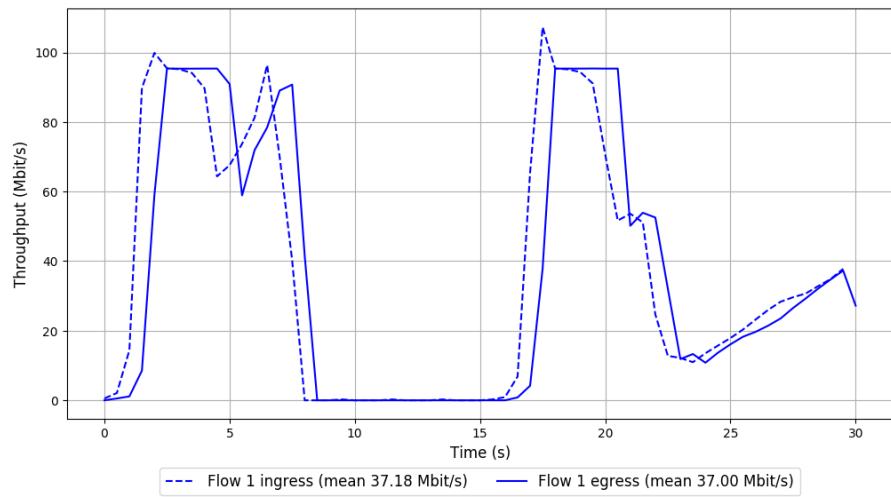


Run 1: Statistics of Copa

```
Start at: 2019-06-28 06:09:04
End at: 2019-06-28 06:09:34
Local clock offset: -7.954 ms
Remote clock offset: 48.11 ms

# Below is generated by plot.py at 2019-06-28 08:11:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.00 Mbit/s
95th percentile per-packet one-way delay: 222.131 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 37.00 Mbit/s
95th percentile per-packet one-way delay: 222.131 ms
Loss rate: 1.05%
```

Run 1: Report of Copa — Data Link

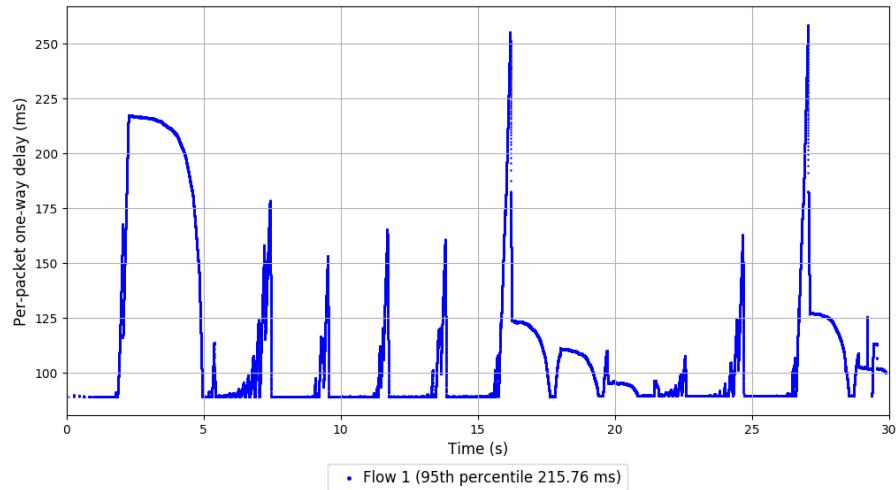
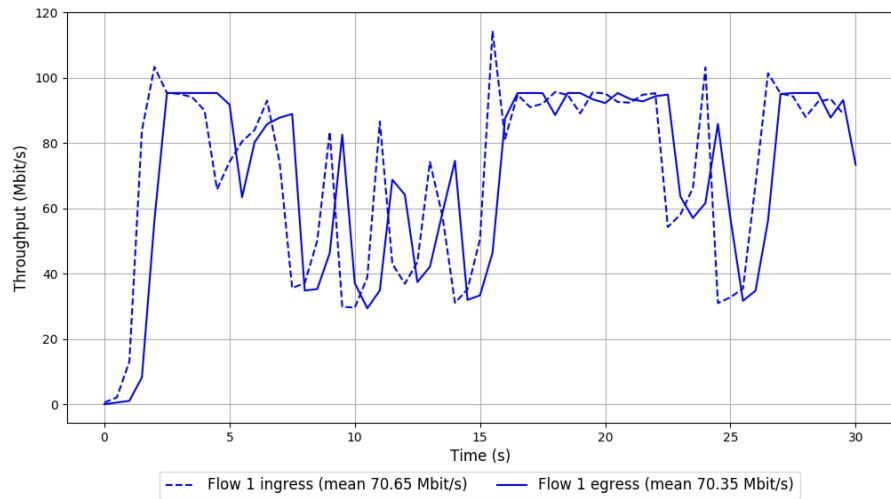


Run 2: Statistics of Copa

```
Start at: 2019-06-28 06:35:21
End at: 2019-06-28 06:35:51
Local clock offset: -6.702 ms
Remote clock offset: 62.282 ms

# Below is generated by plot.py at 2019-06-28 08:12:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 215.761 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 215.761 ms
Loss rate: 1.01%
```

Run 2: Report of Copa — Data Link

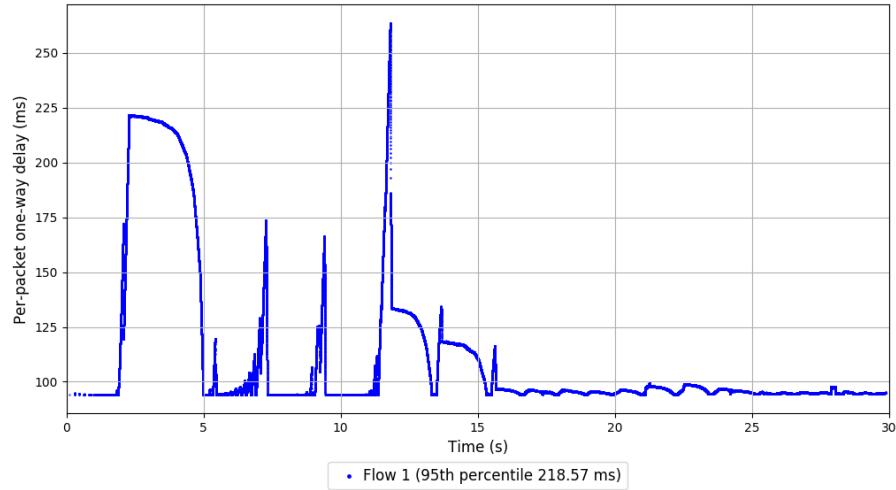
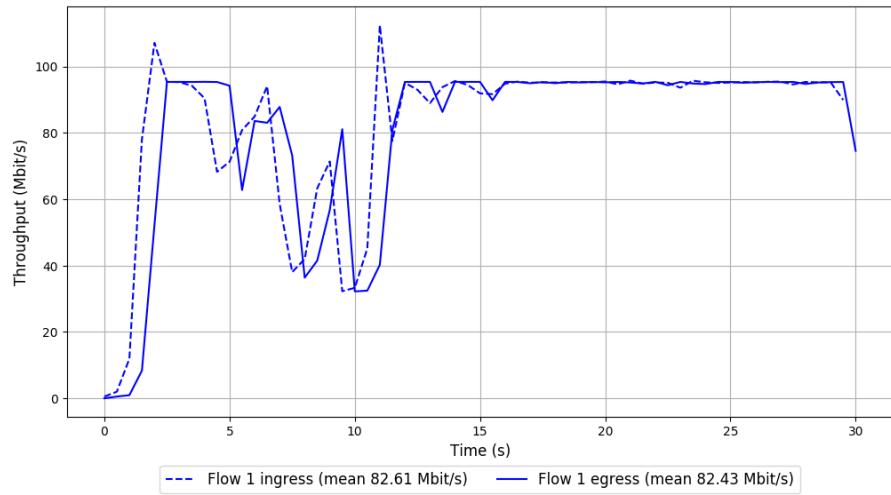


Run 3: Statistics of Copa

```
Start at: 2019-06-28 07:01:33
End at: 2019-06-28 07:02:03
Local clock offset: -6.616 ms
Remote clock offset: 70.536 ms

# Below is generated by plot.py at 2019-06-28 08:12:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.43 Mbit/s
95th percentile per-packet one-way delay: 218.570 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 82.43 Mbit/s
95th percentile per-packet one-way delay: 218.570 ms
Loss rate: 0.79%
```

Run 3: Report of Copa — Data Link

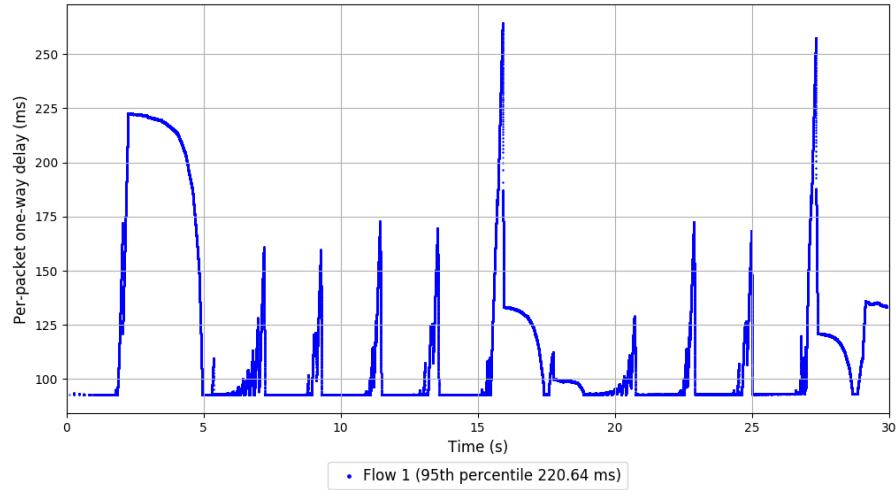
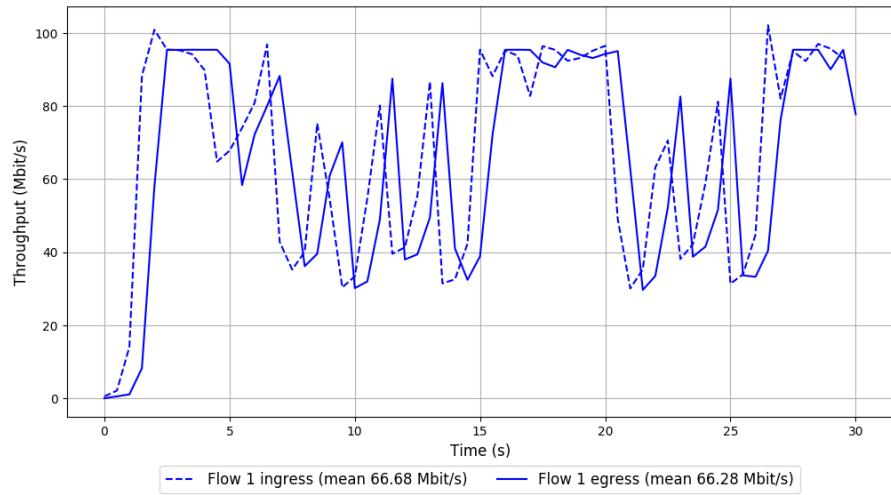


Run 4: Statistics of Copa

```
Start at: 2019-06-28 07:27:45
End at: 2019-06-28 07:28:15
Local clock offset: -7.391 ms
Remote clock offset: 83.887 ms

# Below is generated by plot.py at 2019-06-28 08:13:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.28 Mbit/s
95th percentile per-packet one-way delay: 220.637 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 66.28 Mbit/s
95th percentile per-packet one-way delay: 220.637 ms
Loss rate: 1.17%
```

Run 4: Report of Copa — Data Link

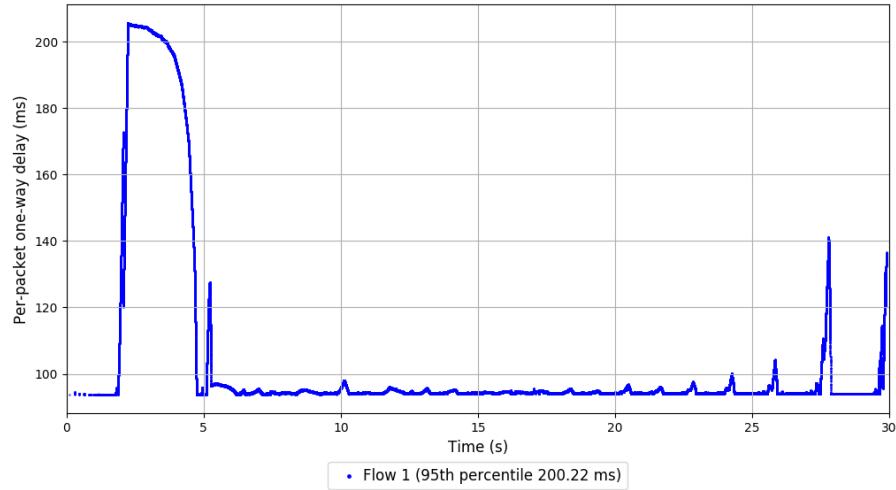
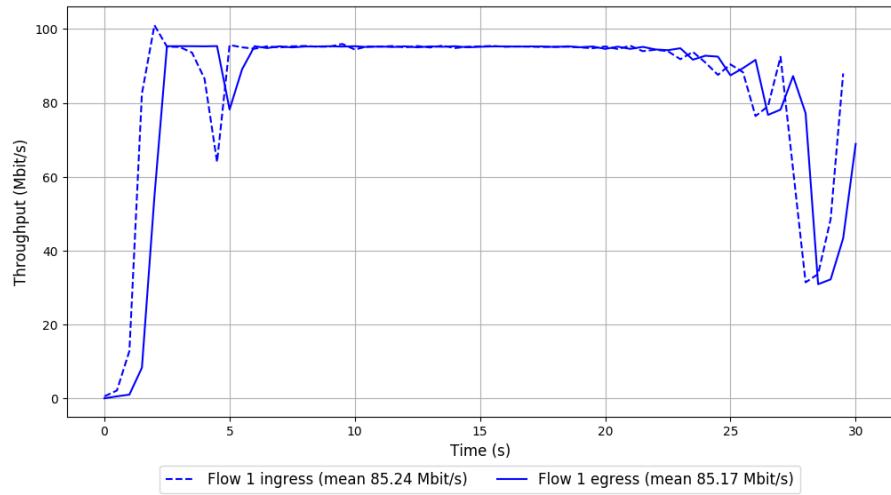


Run 5: Statistics of Copa

```
Start at: 2019-06-28 07:53:55
End at: 2019-06-28 07:54:25
Local clock offset: -7.103 ms
Remote clock offset: 96.735 ms

# Below is generated by plot.py at 2019-06-28 08:13:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.17 Mbit/s
95th percentile per-packet one-way delay: 200.216 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 85.17 Mbit/s
95th percentile per-packet one-way delay: 200.216 ms
Loss rate: 0.65%
```

Run 5: Report of Copa — Data Link

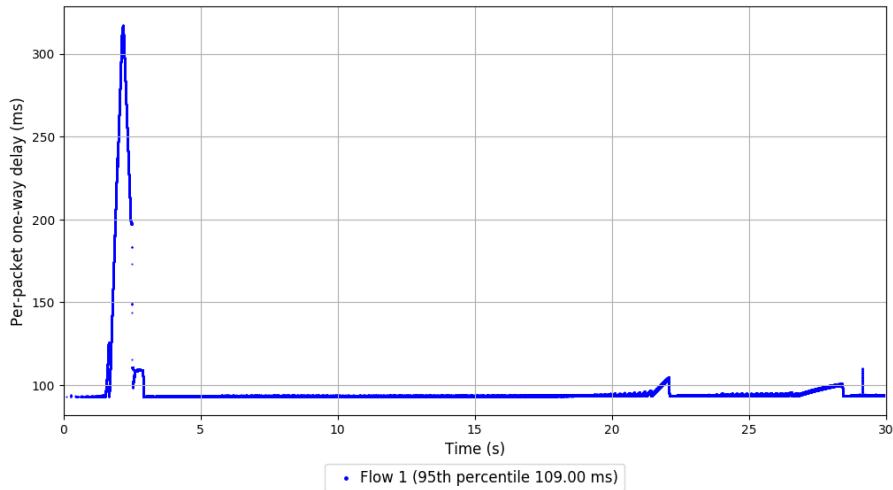
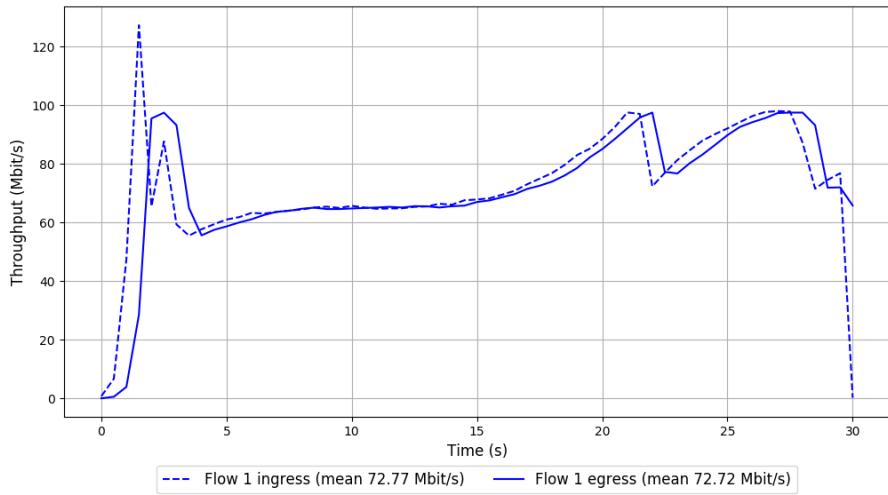


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-06-28 06:10:23
End at: 2019-06-28 06:10:53
Local clock offset: -8.83 ms
Remote clock offset: 44.895 ms

# Below is generated by plot.py at 2019-06-28 08:13:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.72 Mbit/s
95th percentile per-packet one-way delay: 109.004 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.72 Mbit/s
95th percentile per-packet one-way delay: 109.004 ms
Loss rate: 0.64%
```

Run 1: Report of TCP Cubic — Data Link

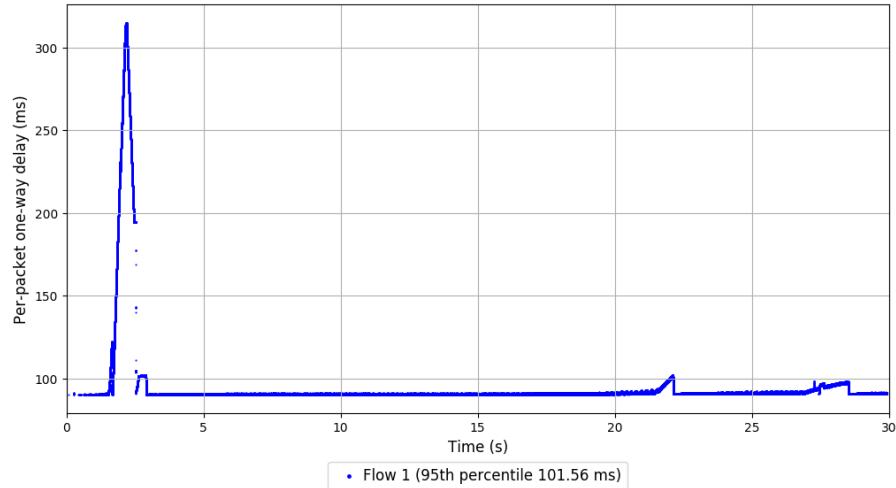
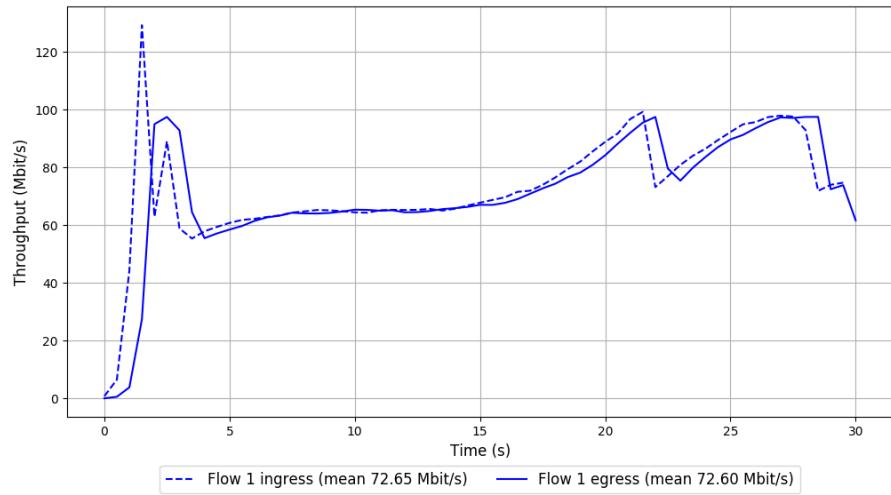


Run 2: Statistics of TCP Cubic

```
Start at: 2019-06-28 06:36:35
End at: 2019-06-28 06:37:05
Local clock offset: -6.454 ms
Remote clock offset: 62.015 ms

# Below is generated by plot.py at 2019-06-28 08:13:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.60 Mbit/s
95th percentile per-packet one-way delay: 101.555 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.60 Mbit/s
95th percentile per-packet one-way delay: 101.555 ms
Loss rate: 0.64%
```

Run 2: Report of TCP Cubic — Data Link

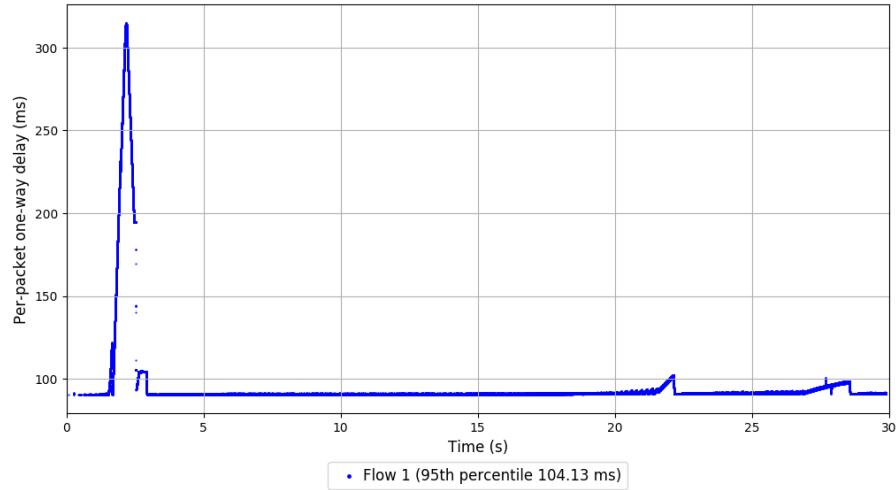
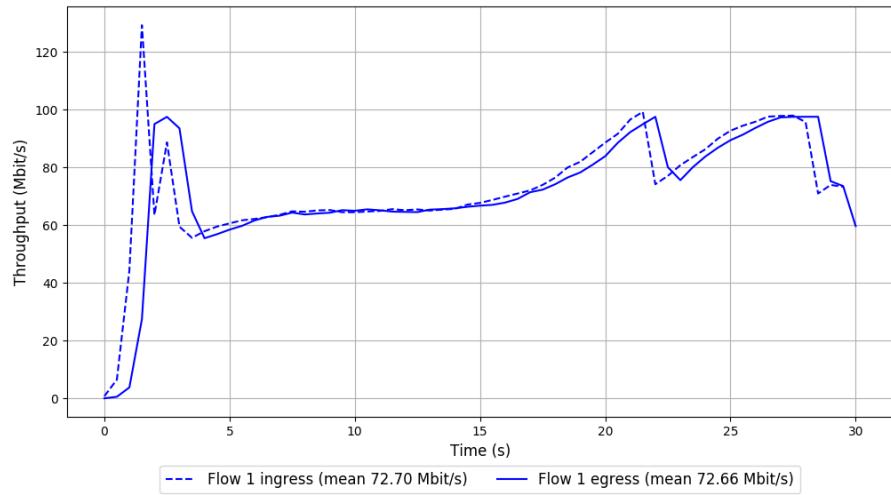


```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2019-06-28 07:02:48
End at: 2019-06-28 07:03:18
Local clock offset: -6.7 ms
Remote clock offset: 75.031 ms

# Below is generated by plot.py at 2019-06-28 08:13:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.66 Mbit/s
95th percentile per-packet one-way delay: 104.129 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.66 Mbit/s
95th percentile per-packet one-way delay: 104.129 ms
Loss rate: 0.64%
```

Run 3: Report of TCP Cubic — Data Link

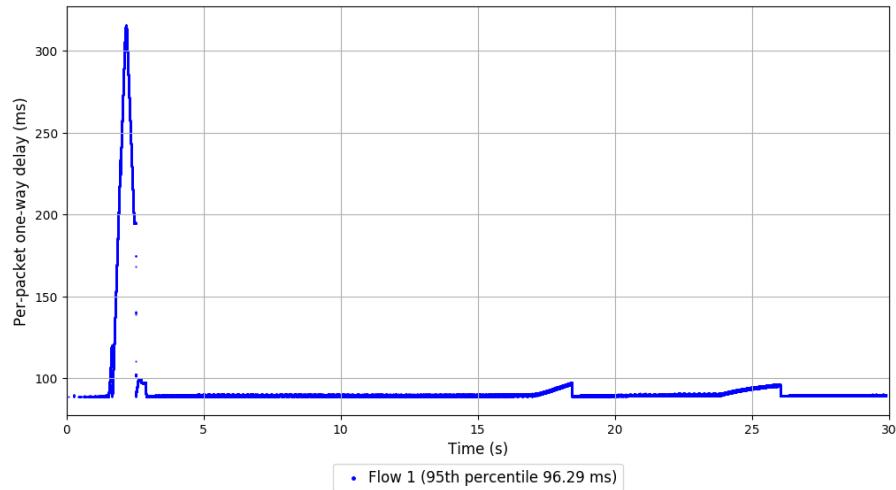
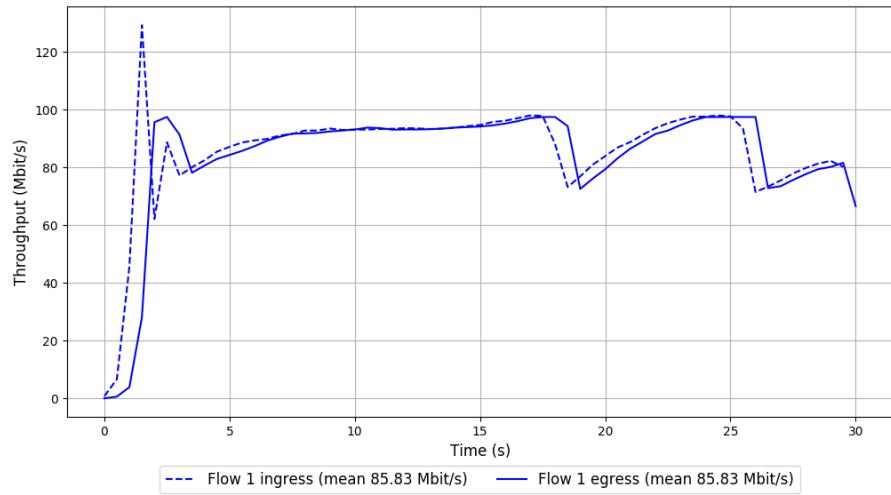


Run 4: Statistics of TCP Cubic

```
Start at: 2019-06-28 07:28:59
End at: 2019-06-28 07:29:29
Local clock offset: -7.155 ms
Remote clock offset: 88.531 ms

# Below is generated by plot.py at 2019-06-28 08:13:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.83 Mbit/s
95th percentile per-packet one-way delay: 96.286 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 85.83 Mbit/s
95th percentile per-packet one-way delay: 96.286 ms
Loss rate: 0.58%
```

Run 4: Report of TCP Cubic — Data Link

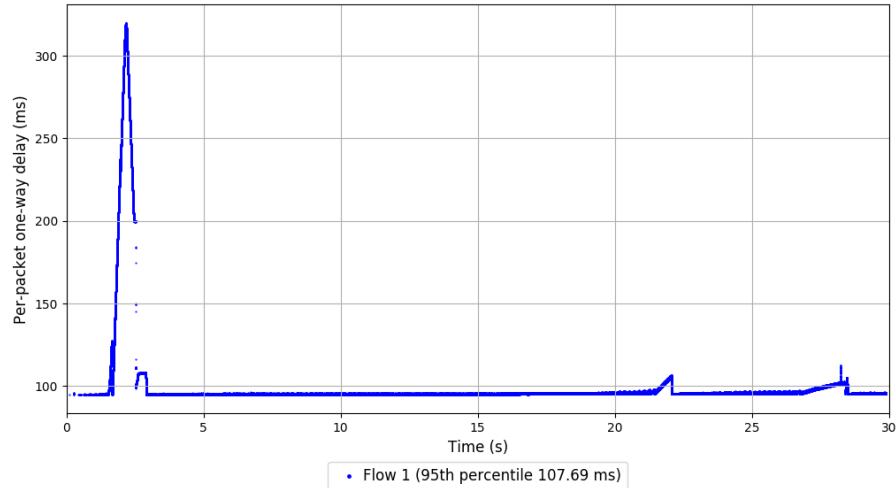
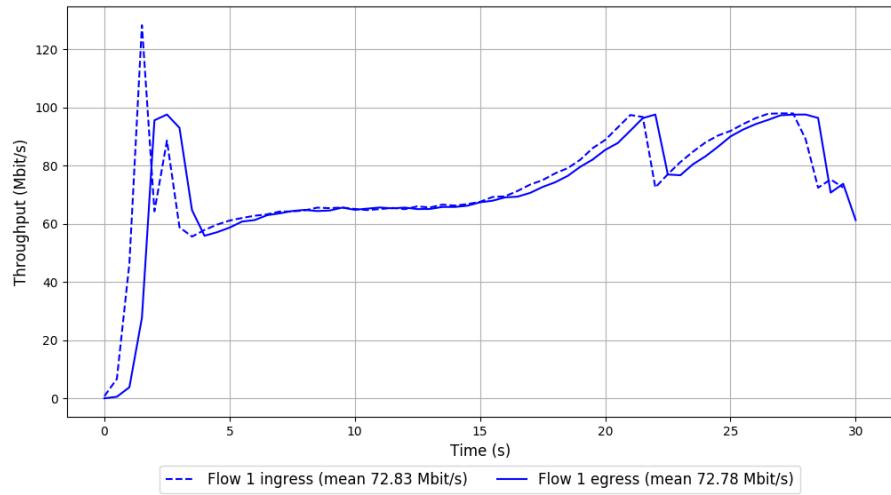


Run 5: Statistics of TCP Cubic

```
Start at: 2019-06-28 07:55:10
End at: 2019-06-28 07:55:40
Local clock offset: -6.543 ms
Remote clock offset: 96.503 ms

# Below is generated by plot.py at 2019-06-28 08:13:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.78 Mbit/s
95th percentile per-packet one-way delay: 107.695 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.78 Mbit/s
95th percentile per-packet one-way delay: 107.695 ms
Loss rate: 0.64%
```

Run 5: Report of TCP Cubic — Data Link

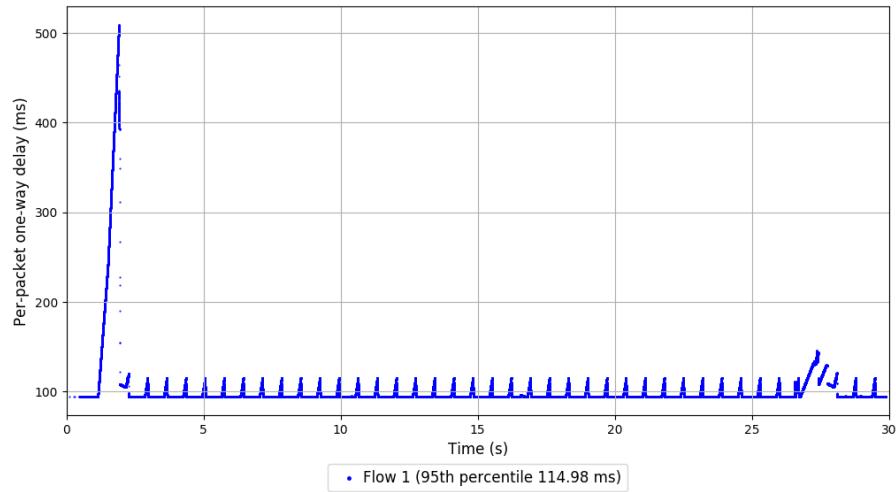
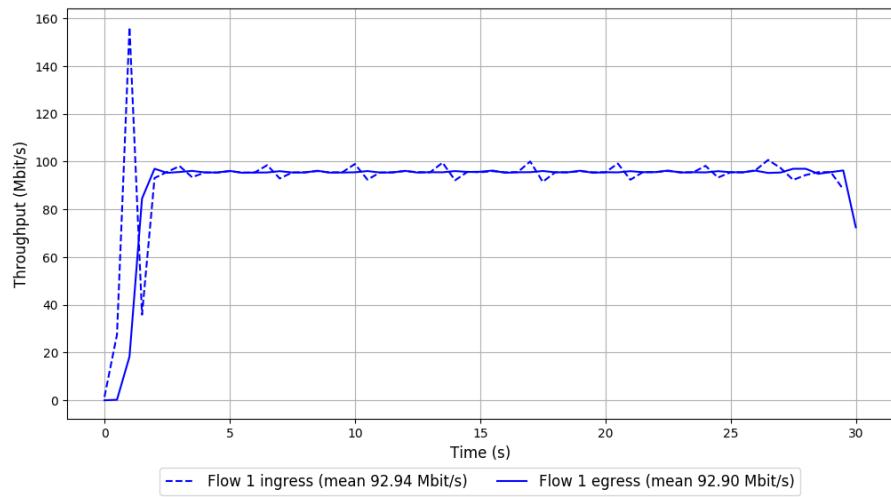


```
Run 1: Statistics of FillP
```

```
Start at: 2019-06-28 06:20:04
End at: 2019-06-28 06:20:34
Local clock offset: -7.871 ms
Remote clock offset: 49.444 ms

# Below is generated by plot.py at 2019-06-28 08:14:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 114.984 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 114.984 ms
Loss rate: 0.63%
```

Run 1: Report of FillP — Data Link

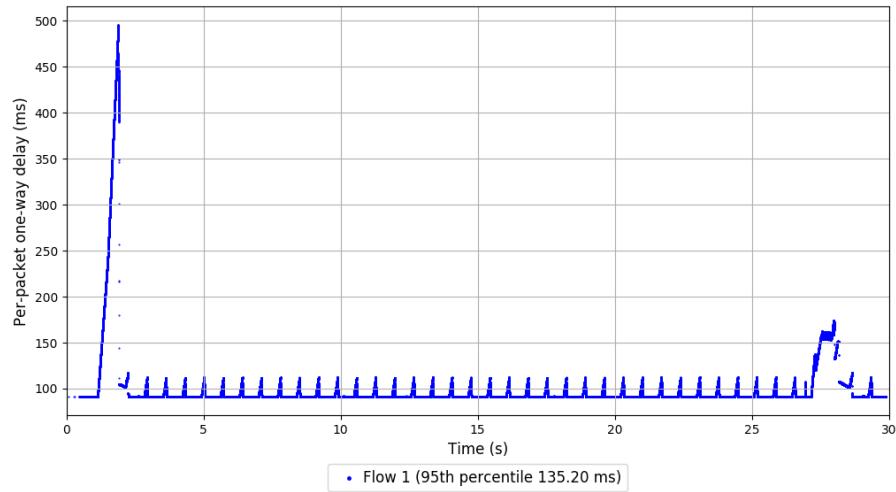
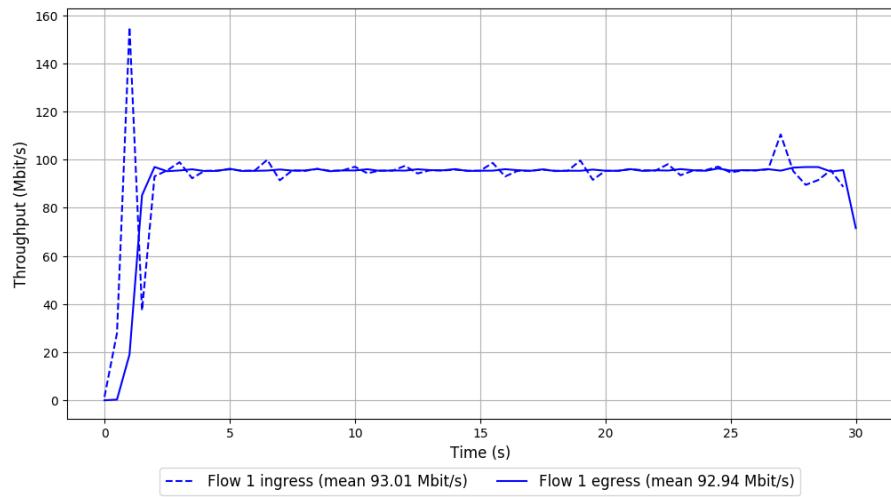


Run 2: Statistics of FillP

```
Start at: 2019-06-28 06:46:14
End at: 2019-06-28 06:46:44
Local clock offset: -6.248 ms
Remote clock offset: 65.655 ms

# Below is generated by plot.py at 2019-06-28 08:14:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 135.197 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 135.197 ms
Loss rate: 0.65%
```

Run 2: Report of FillP — Data Link

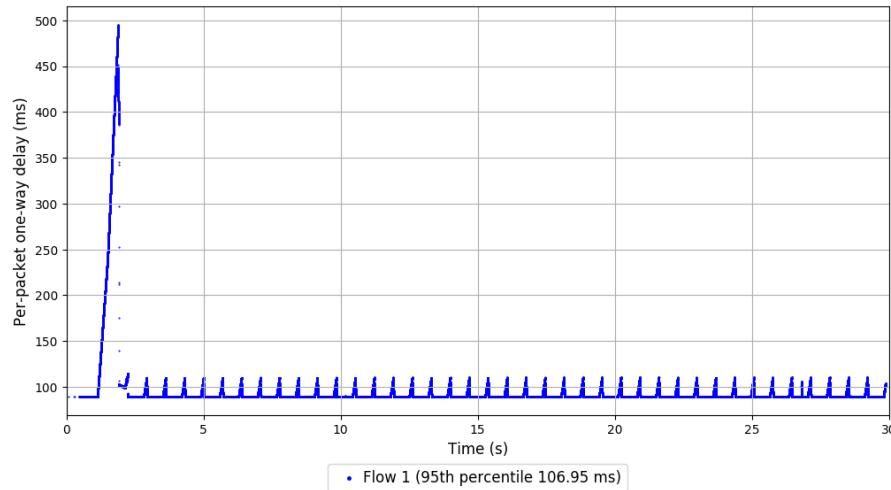
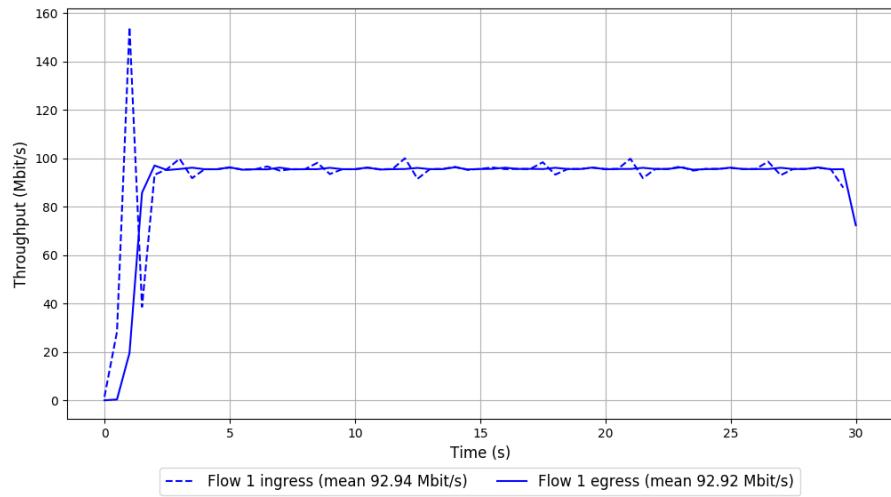


Run 3: Statistics of FillP

```
Start at: 2019-06-28 07:12:27
End at: 2019-06-28 07:12:57
Local clock offset: -7.518 ms
Remote clock offset: 80.015 ms

# Below is generated by plot.py at 2019-06-28 08:14:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.92 Mbit/s
95th percentile per-packet one-way delay: 106.950 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 92.92 Mbit/s
95th percentile per-packet one-way delay: 106.950 ms
Loss rate: 0.60%
```

Run 3: Report of FillP — Data Link

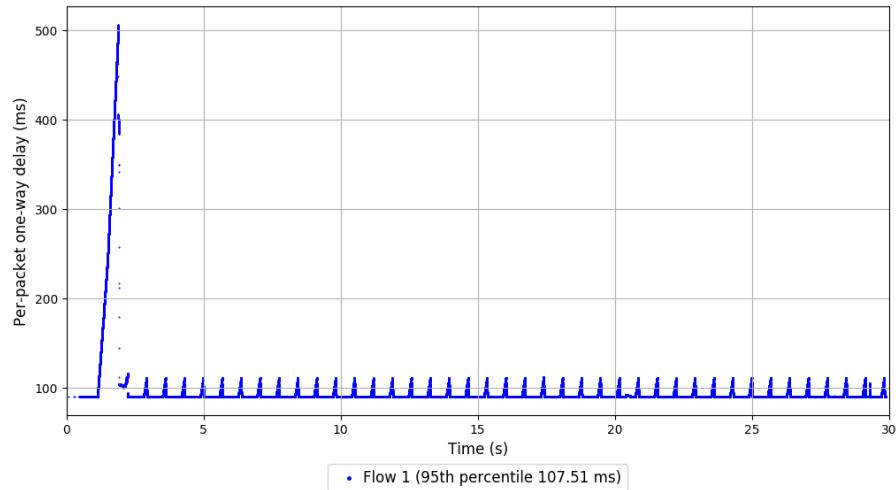
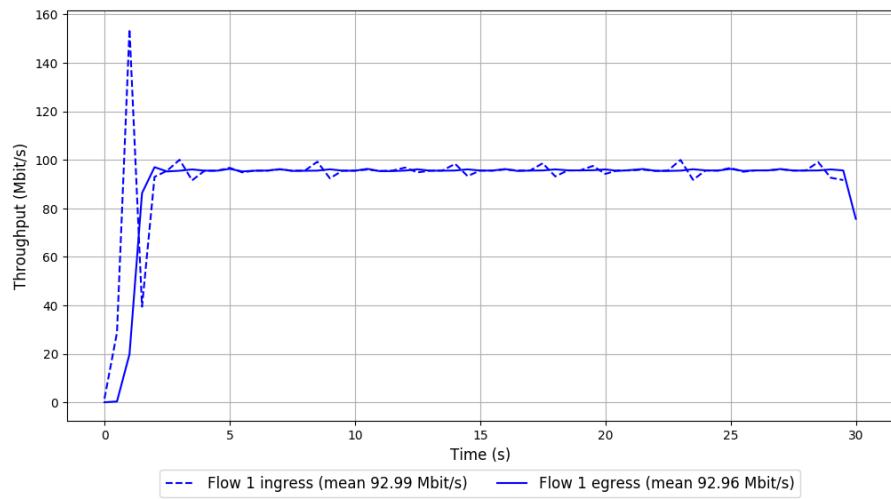


Run 4: Statistics of FillP

```
Start at: 2019-06-28 07:38:38
End at: 2019-06-28 07:39:08
Local clock offset: -6.197 ms
Remote clock offset: 93.165 ms

# Below is generated by plot.py at 2019-06-28 08:14:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 107.506 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 107.506 ms
Loss rate: 0.61%
```

Run 4: Report of FillP — Data Link

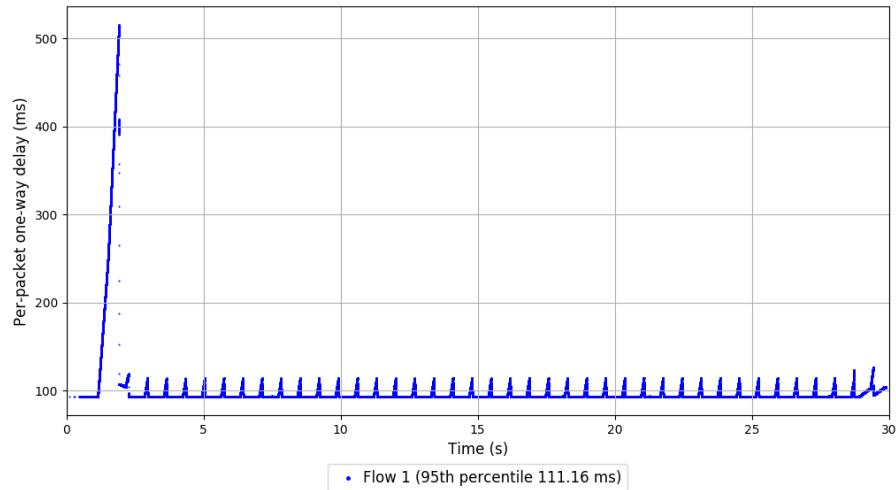
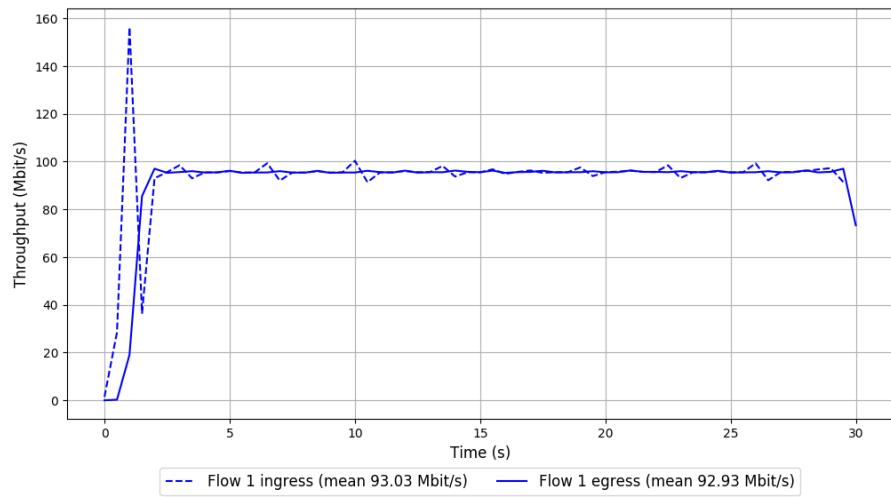


Run 5: Statistics of FillP

```
Start at: 2019-06-28 08:04:50
End at: 2019-06-28 08:05:20
Local clock offset: -7.223 ms
Remote clock offset: 102.557 ms

# Below is generated by plot.py at 2019-06-28 08:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 111.161 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 111.161 ms
Loss rate: 0.68%
```

Run 5: Report of FillP — Data Link

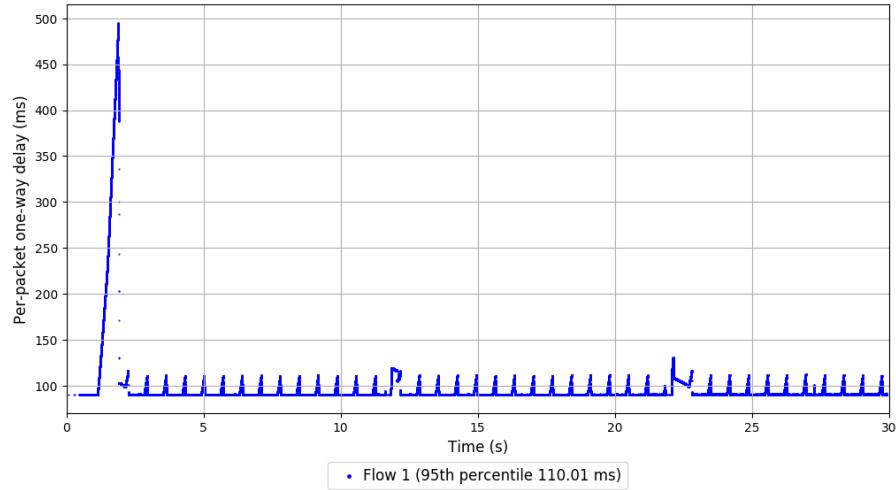
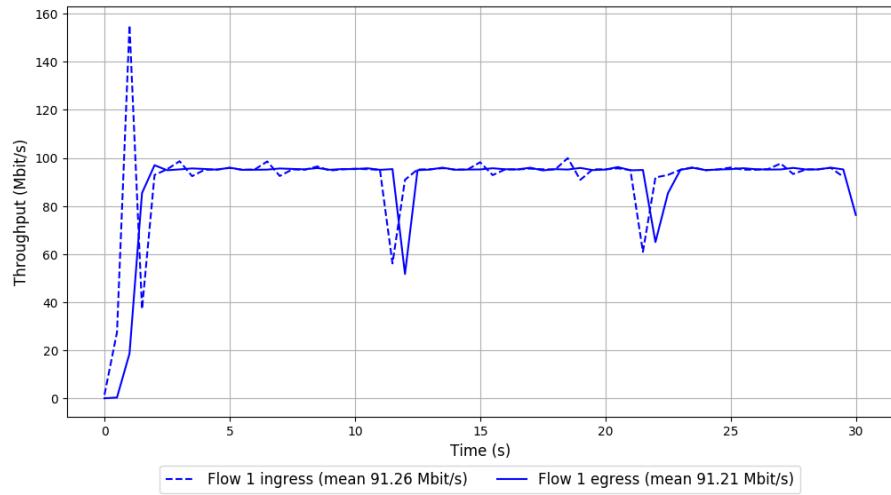


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-06-28 05:58:28
End at: 2019-06-28 05:58:58
Local clock offset: -8.181 ms
Remote clock offset: 41.666 ms

# Below is generated by plot.py at 2019-06-28 08:14:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.21 Mbit/s
95th percentile per-packet one-way delay: 110.009 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 91.21 Mbit/s
95th percentile per-packet one-way delay: 110.009 ms
Loss rate: 0.63%
```

Run 1: Report of FillP-Sheep — Data Link

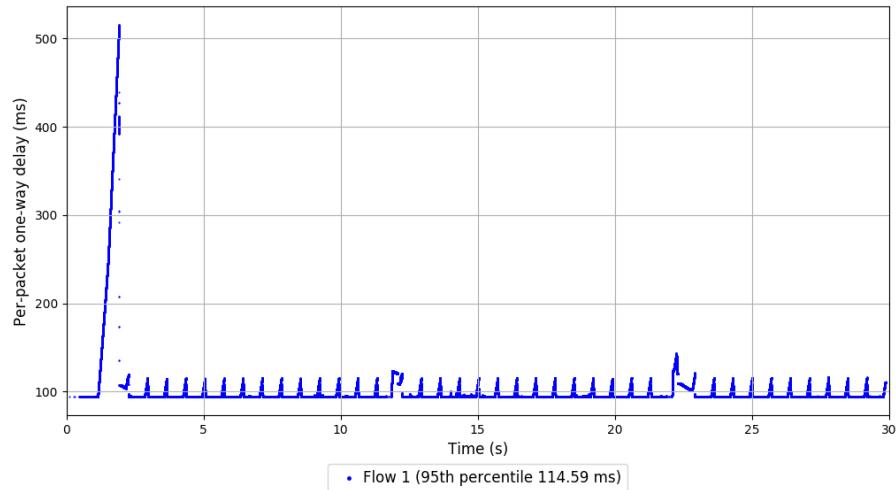
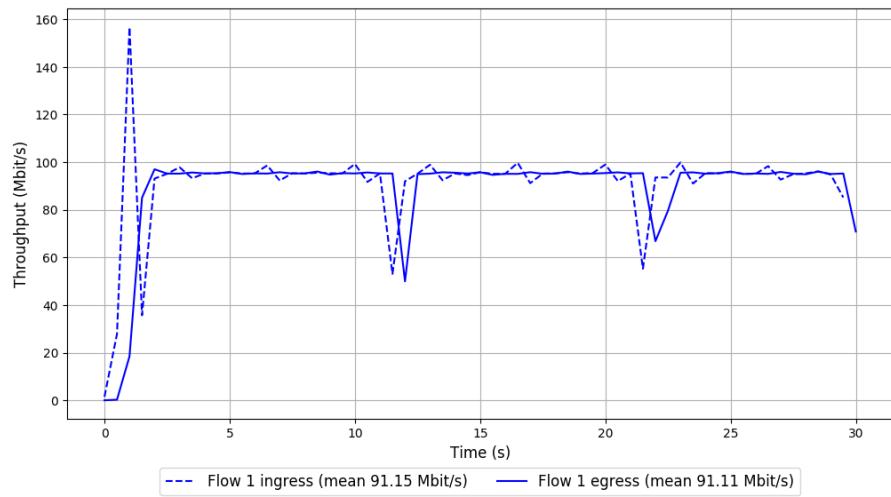


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-06-28 06:24:50
End at: 2019-06-28 06:25:20
Local clock offset: -8.167 ms
Remote clock offset: 50.901 ms

# Below is generated by plot.py at 2019-06-28 08:14:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.11 Mbit/s
95th percentile per-packet one-way delay: 114.587 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 91.11 Mbit/s
95th percentile per-packet one-way delay: 114.587 ms
Loss rate: 0.62%
```

Run 2: Report of FillP-Sheep — Data Link

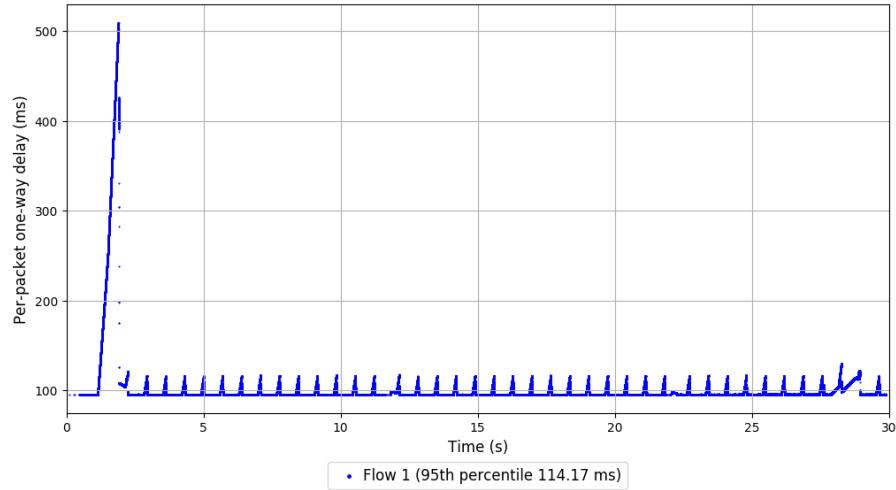
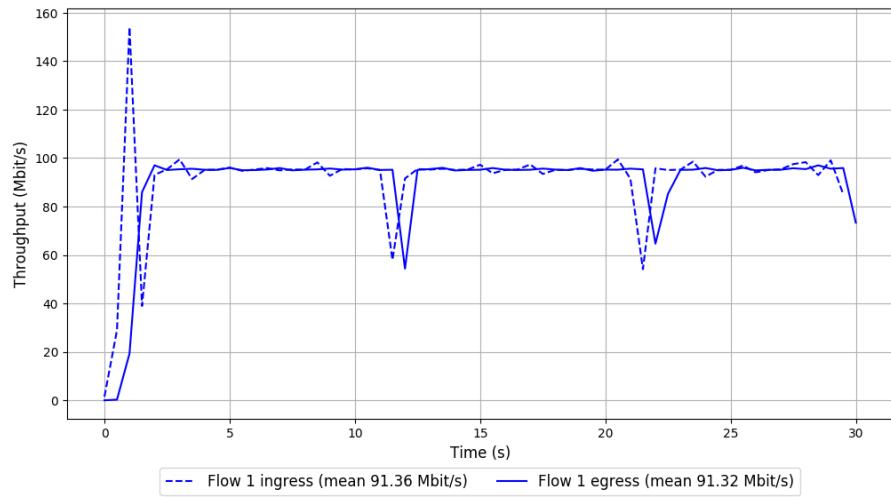


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-06-28 06:51:00
End at: 2019-06-28 06:51:30
Local clock offset: -6.573 ms
Remote clock offset: 63.894 ms

# Below is generated by plot.py at 2019-06-28 08:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.32 Mbit/s
95th percentile per-packet one-way delay: 114.174 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 91.32 Mbit/s
95th percentile per-packet one-way delay: 114.174 ms
Loss rate: 0.62%
```

Run 3: Report of FillP-Sheep — Data Link

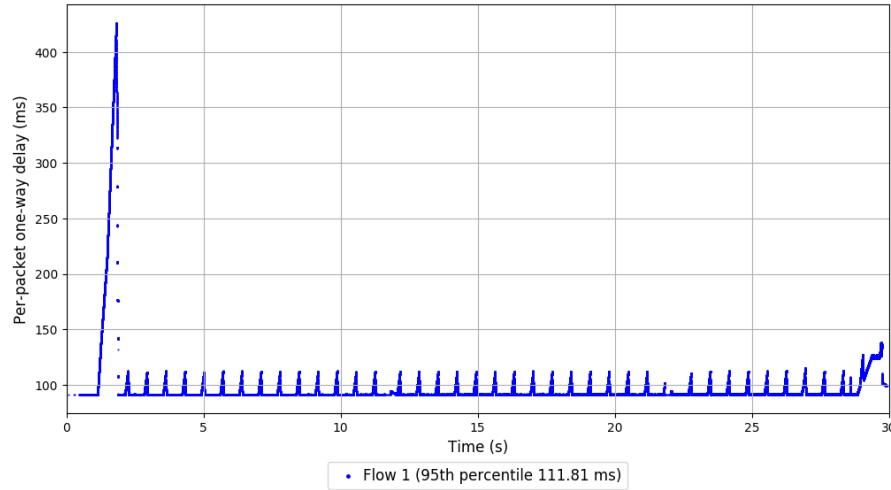
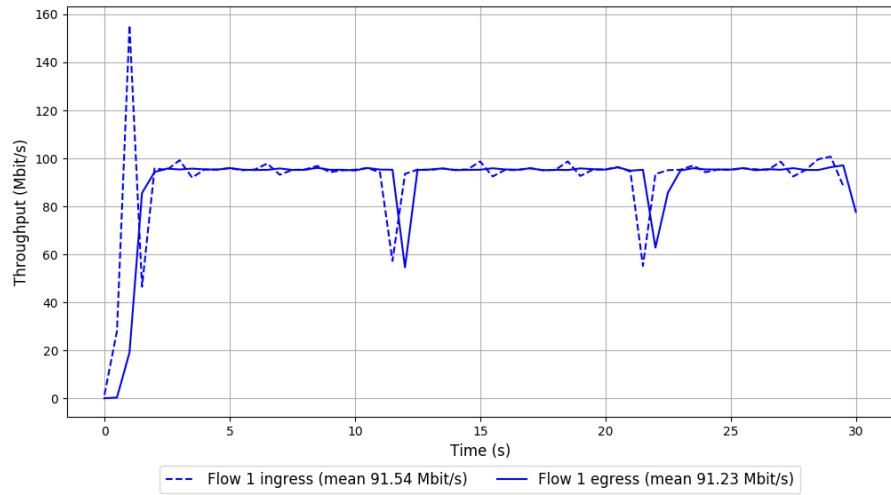


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-06-28 07:17:13
End at: 2019-06-28 07:17:43
Local clock offset: -7.058 ms
Remote clock offset: 81.373 ms

# Below is generated by plot.py at 2019-06-28 08:15:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 111.811 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 111.811 ms
Loss rate: 0.91%
```

Run 4: Report of FillP-Sheep — Data Link

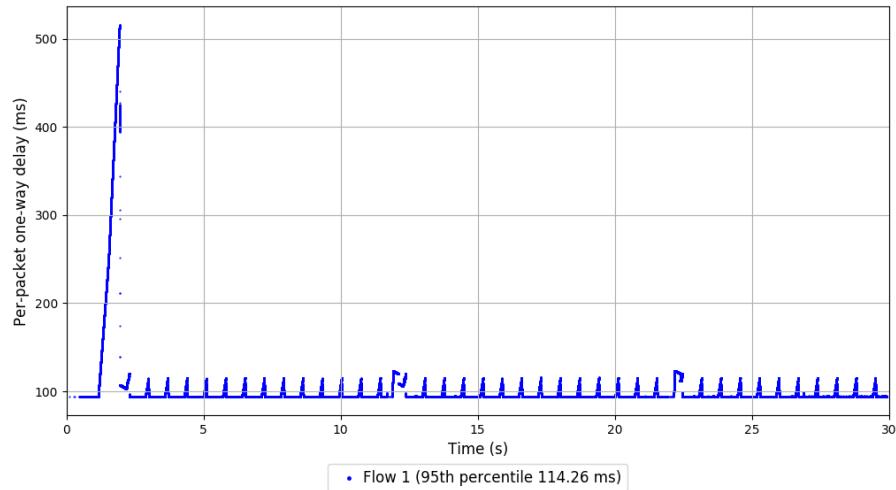
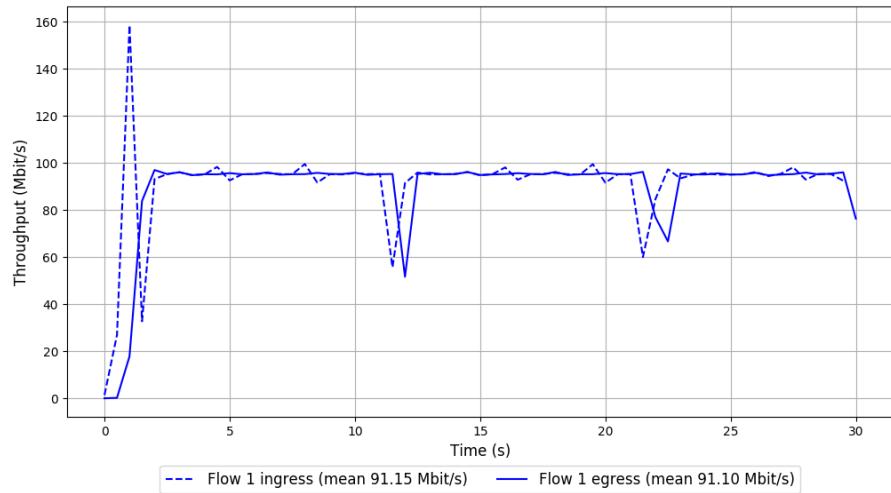


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-06-28 07:43:24
End at: 2019-06-28 07:43:54
Local clock offset: -6.947 ms
Remote clock offset: 91.527 ms

# Below is generated by plot.py at 2019-06-28 08:15:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 114.261 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 114.261 ms
Loss rate: 0.63%
```

Run 5: Report of FillP-Sheep — Data Link

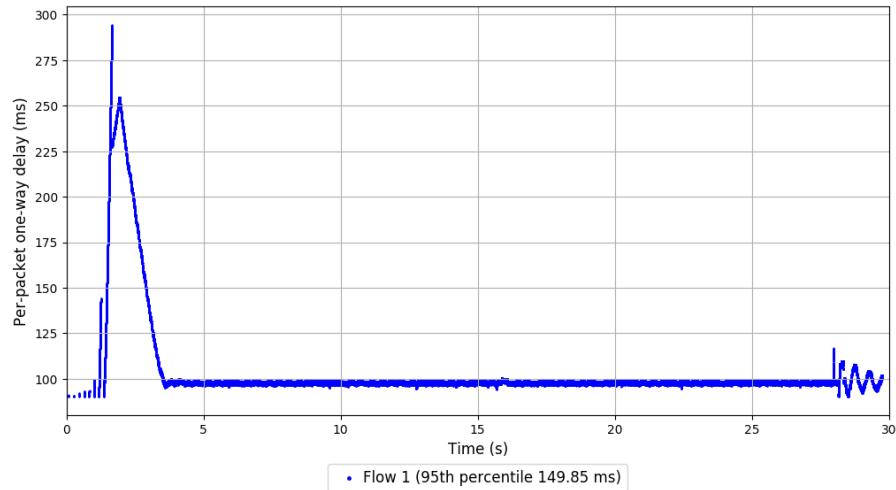
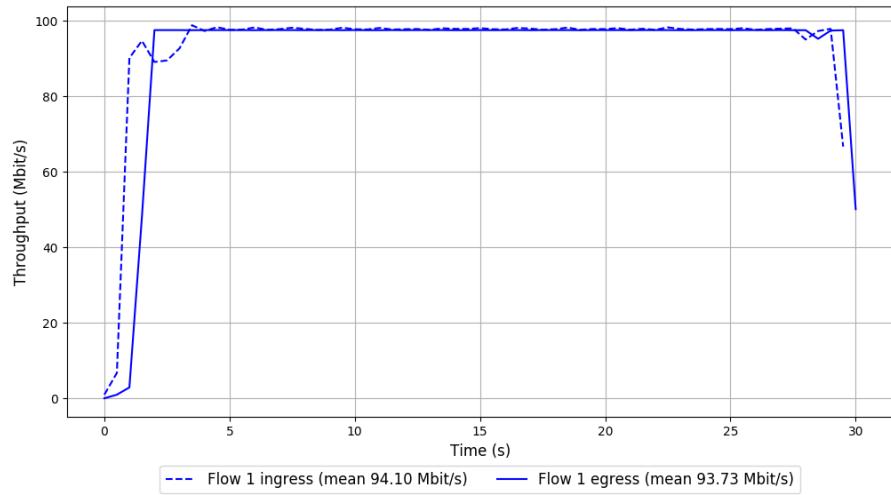


Run 1: Statistics of Indigo

```
Start at: 2019-06-28 06:18:51
End at: 2019-06-28 06:19:21
Local clock offset: -8.893 ms
Remote clock offset: 51.983 ms

# Below is generated by plot.py at 2019-06-28 08:15:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 149.851 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 149.851 ms
Loss rate: 0.98%
```

Run 1: Report of Indigo — Data Link

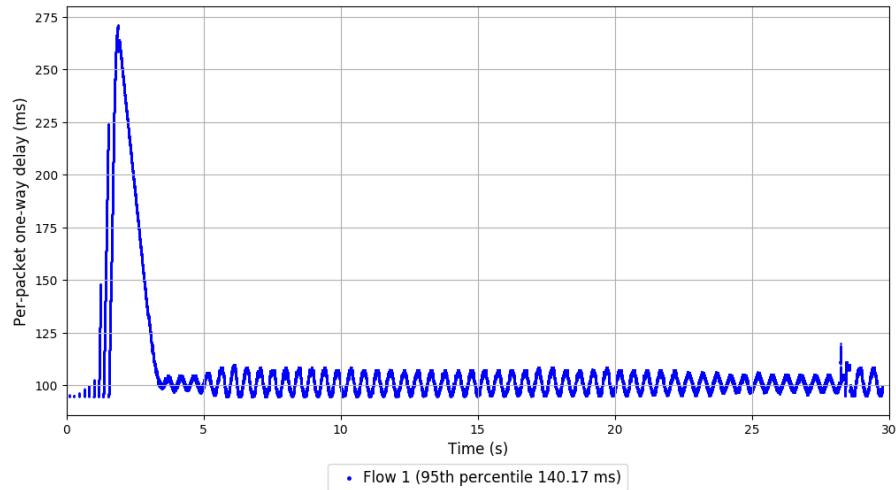
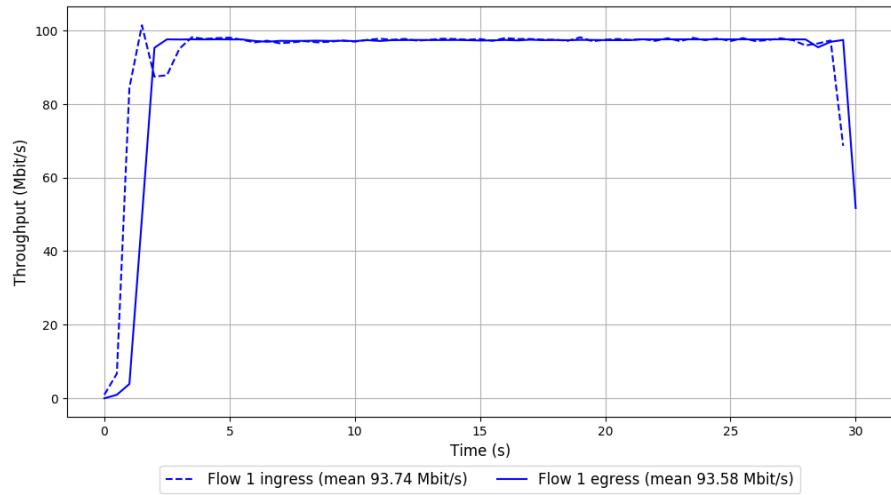


Run 2: Statistics of Indigo

```
Start at: 2019-06-28 06:45:01
End at: 2019-06-28 06:45:31
Local clock offset: -6.259 ms
Remote clock offset: 61.177 ms

# Below is generated by plot.py at 2019-06-28 08:15:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 140.168 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 140.168 ms
Loss rate: 0.74%
```

Run 2: Report of Indigo — Data Link

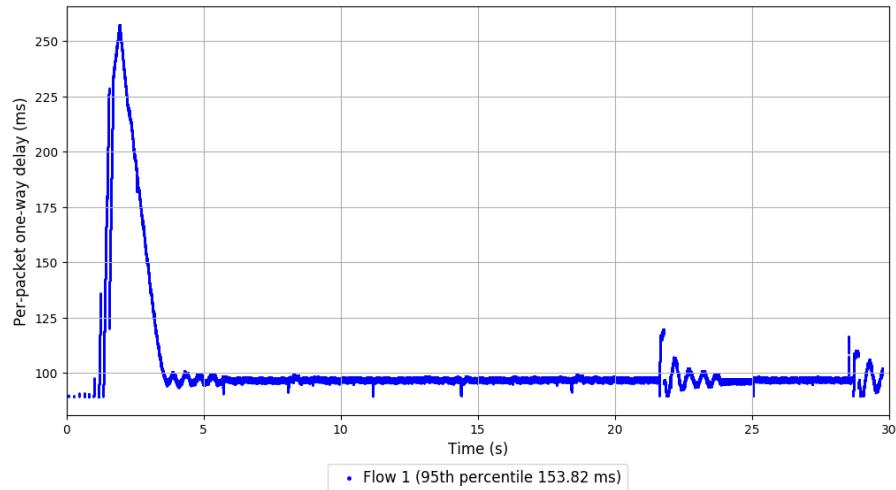
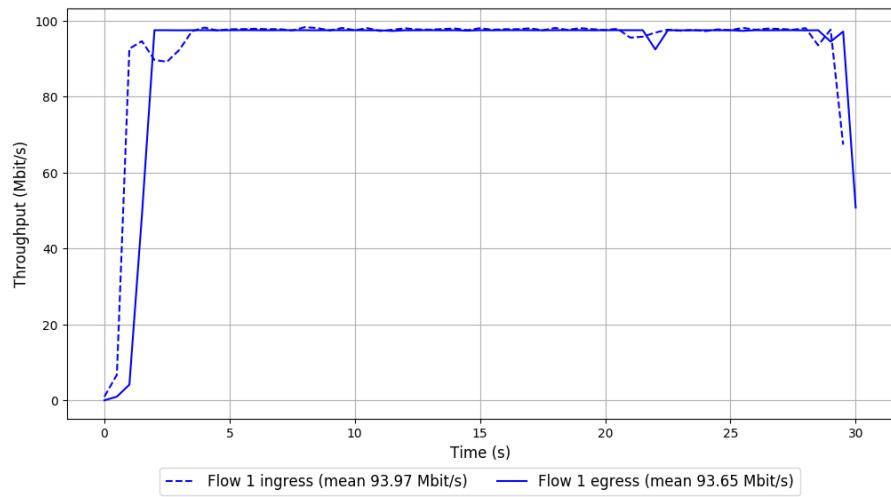


Run 3: Statistics of Indigo

```
Start at: 2019-06-28 07:11:14
End at: 2019-06-28 07:11:44
Local clock offset: -7.707 ms
Remote clock offset: 79.467 ms

# Below is generated by plot.py at 2019-06-28 08:15:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 153.823 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 153.823 ms
Loss rate: 0.92%
```

Run 3: Report of Indigo — Data Link

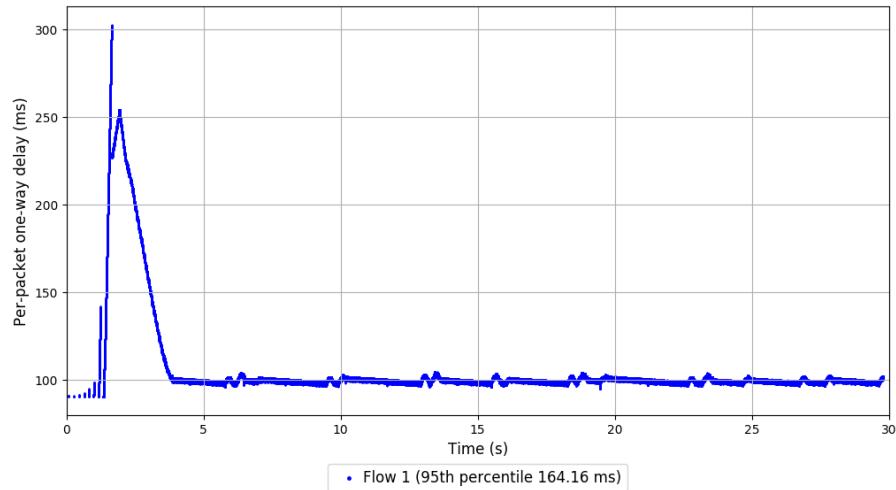
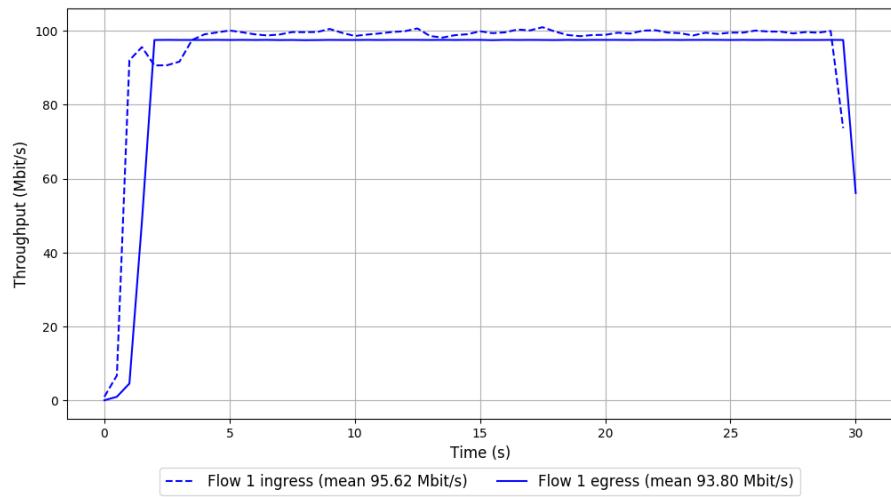


Run 4: Statistics of Indigo

```
Start at: 2019-06-28 07:37:25
End at: 2019-06-28 07:37:55
Local clock offset: -6.211 ms
Remote clock offset: 92.722 ms

# Below is generated by plot.py at 2019-06-28 08:15:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 164.162 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 164.162 ms
Loss rate: 2.47%
```

Run 4: Report of Indigo — Data Link

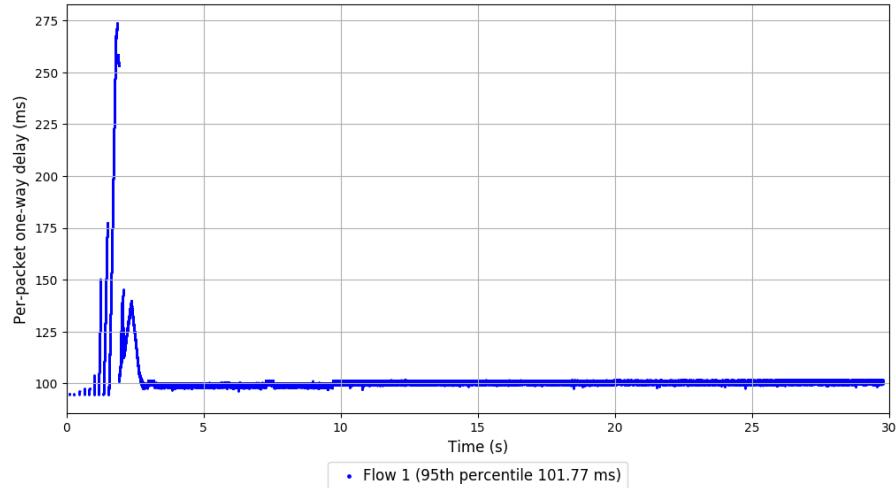
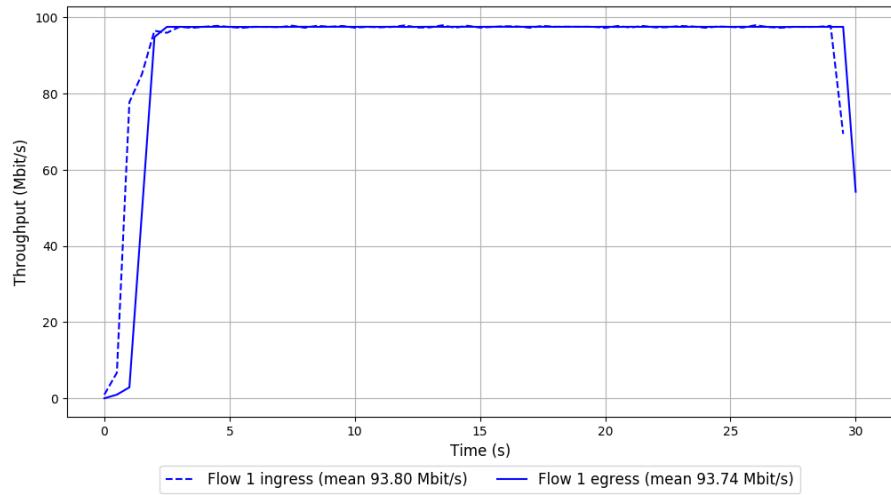


Run 5: Statistics of Indigo

```
Start at: 2019-06-28 08:03:36
End at: 2019-06-28 08:04:06
Local clock offset: -7.428 ms
Remote clock offset: 100.538 ms

# Below is generated by plot.py at 2019-06-28 08:15:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 101.767 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 101.767 ms
Loss rate: 0.64%
```

Run 5: Report of Indigo — Data Link

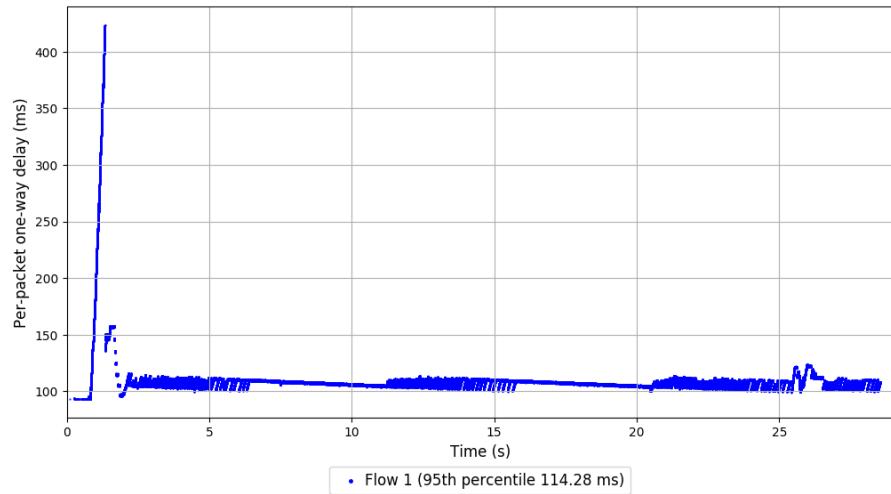
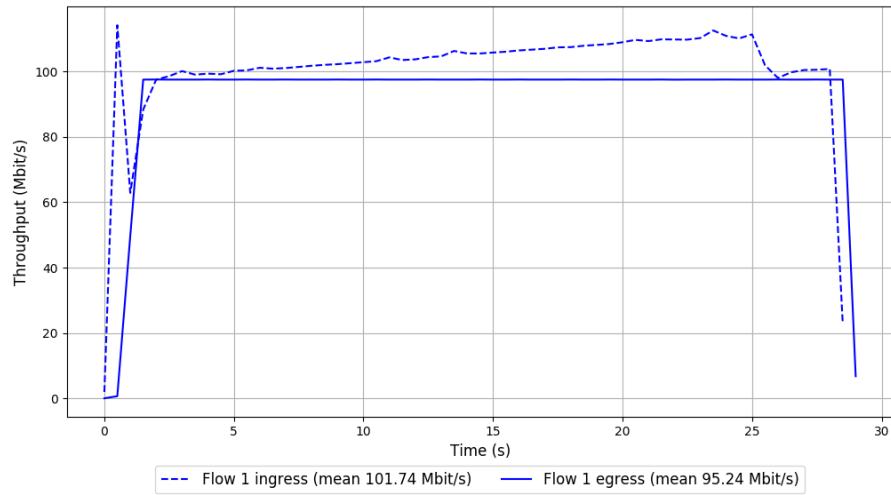


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-06-28 06:12:50
End at: 2019-06-28 06:13:20
Local clock offset: -9.123 ms
Remote clock offset: 46.075 ms

# Below is generated by plot.py at 2019-06-28 08:16:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.24 Mbit/s
95th percentile per-packet one-way delay: 114.281 ms
Loss rate: 6.96%
-- Flow 1:
Average throughput: 95.24 Mbit/s
95th percentile per-packet one-way delay: 114.281 ms
Loss rate: 6.96%
```

Run 1: Report of Indigo-MusesC3 — Data Link

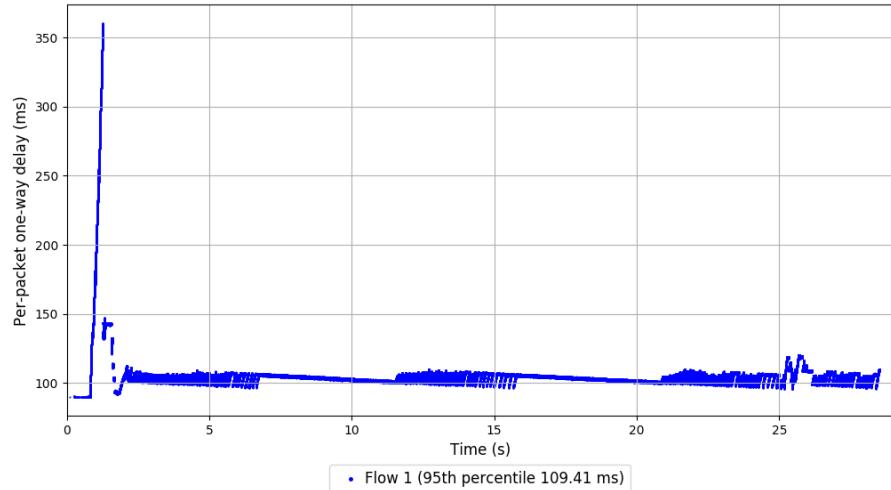
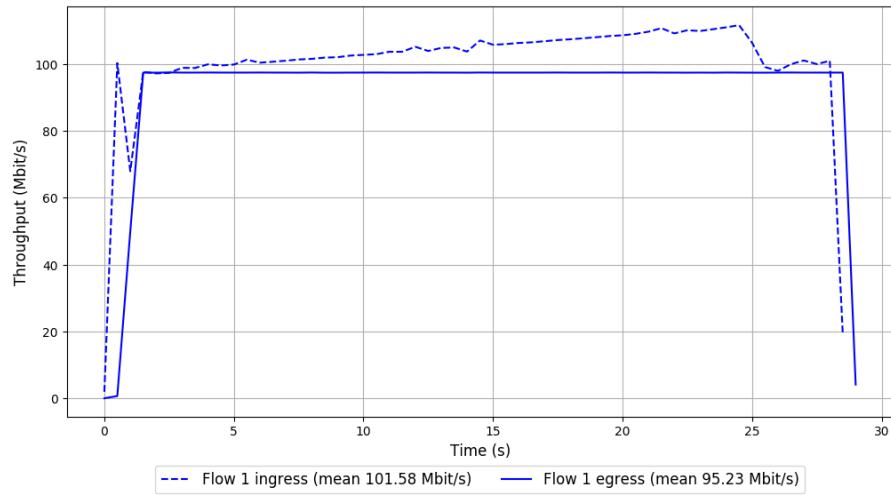


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-06-28 06:39:00
End at: 2019-06-28 06:39:30
Local clock offset: -6.37 ms
Remote clock offset: 63.121 ms

# Below is generated by plot.py at 2019-06-28 08:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.23 Mbit/s
95th percentile per-packet one-way delay: 109.407 ms
Loss rate: 6.82%
-- Flow 1:
Average throughput: 95.23 Mbit/s
95th percentile per-packet one-way delay: 109.407 ms
Loss rate: 6.82%
```

Run 2: Report of Indigo-MusesC3 — Data Link

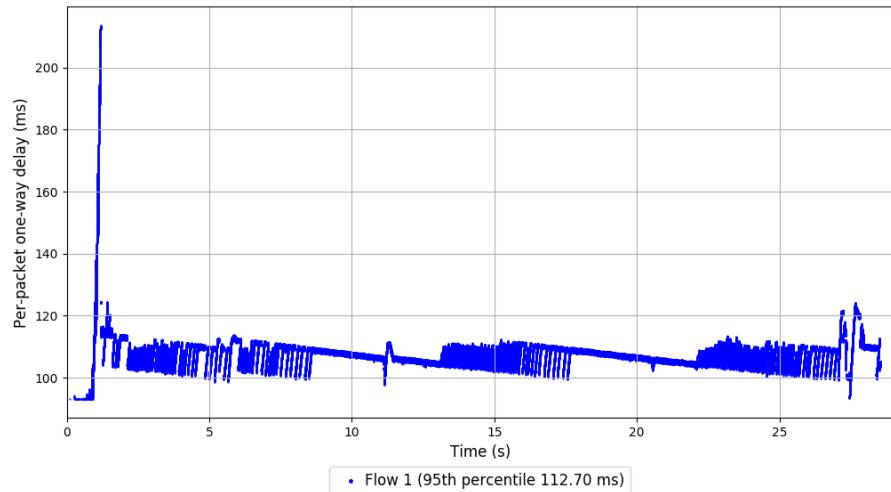
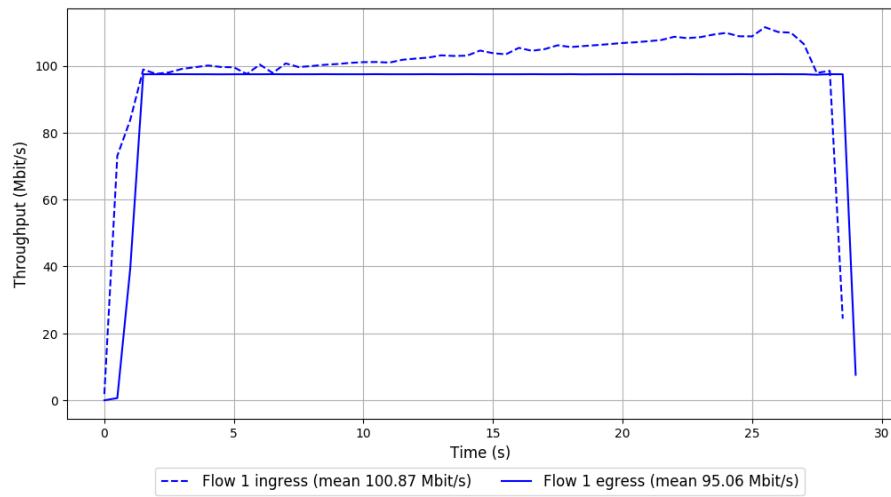


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-06-28 07:05:13
End at: 2019-06-28 07:05:43
Local clock offset: -7.746 ms
Remote clock offset: 72.234 ms

# Below is generated by plot.py at 2019-06-28 08:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.06 Mbit/s
95th percentile per-packet one-way delay: 112.705 ms
Loss rate: 6.34%
-- Flow 1:
Average throughput: 95.06 Mbit/s
95th percentile per-packet one-way delay: 112.705 ms
Loss rate: 6.34%
```

Run 3: Report of Indigo-MusesC3 — Data Link

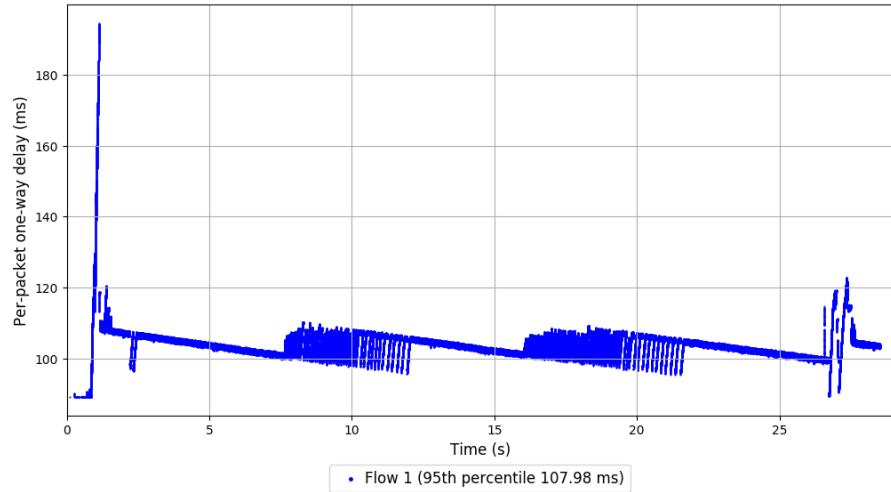
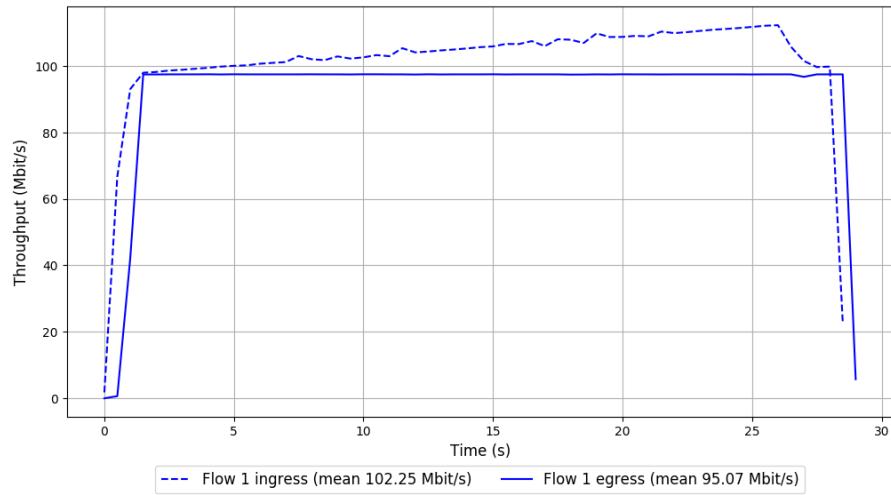


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-06-28 07:31:24
End at: 2019-06-28 07:31:54
Local clock offset: -7.09 ms
Remote clock offset: 89.635 ms

# Below is generated by plot.py at 2019-06-28 08:16:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 107.980 ms
Loss rate: 7.58%
-- Flow 1:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 107.980 ms
Loss rate: 7.58%
```

Run 4: Report of Indigo-MusesC3 — Data Link

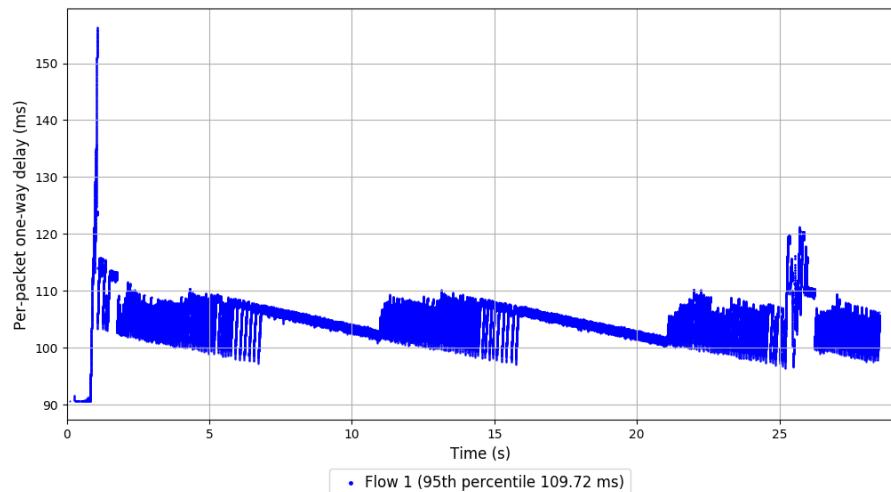
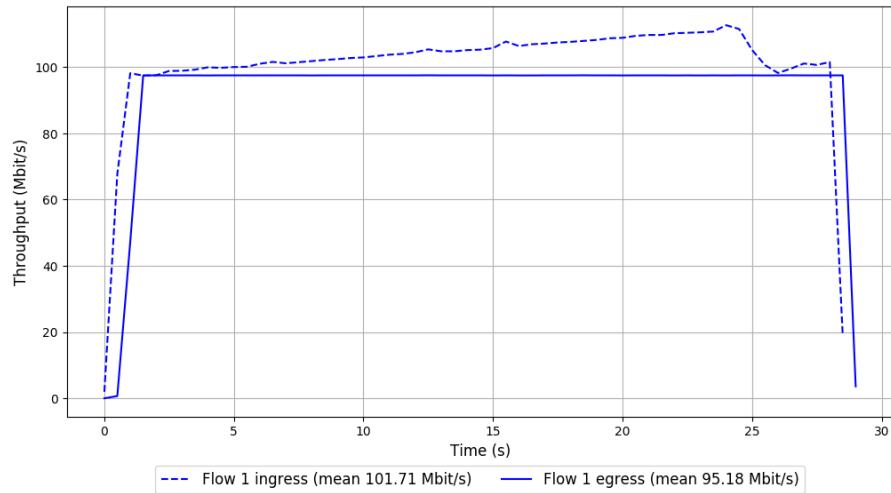


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-06-28 07:57:35
End at: 2019-06-28 07:58:05
Local clock offset: -6.425 ms
Remote clock offset: 101.872 ms

# Below is generated by plot.py at 2019-06-28 08:16:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 109.722 ms
Loss rate: 6.98%
-- Flow 1:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 109.722 ms
Loss rate: 6.98%
```

Run 5: Report of Indigo-MusesC3 — Data Link

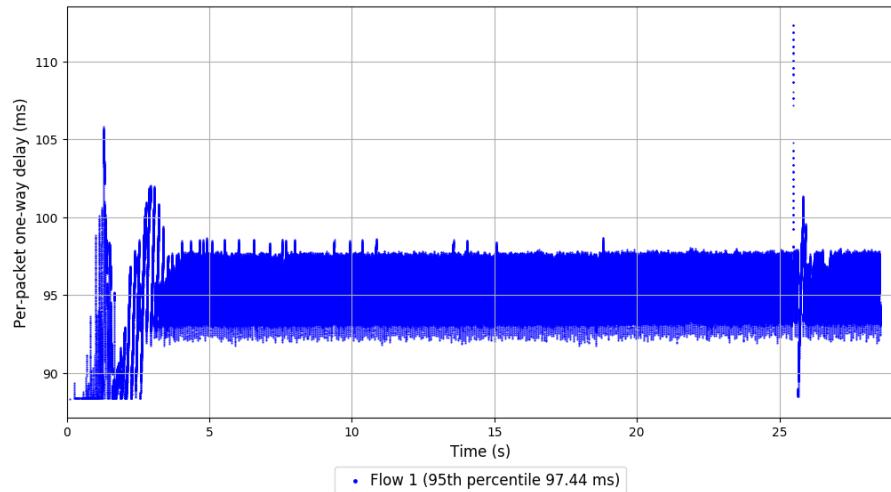
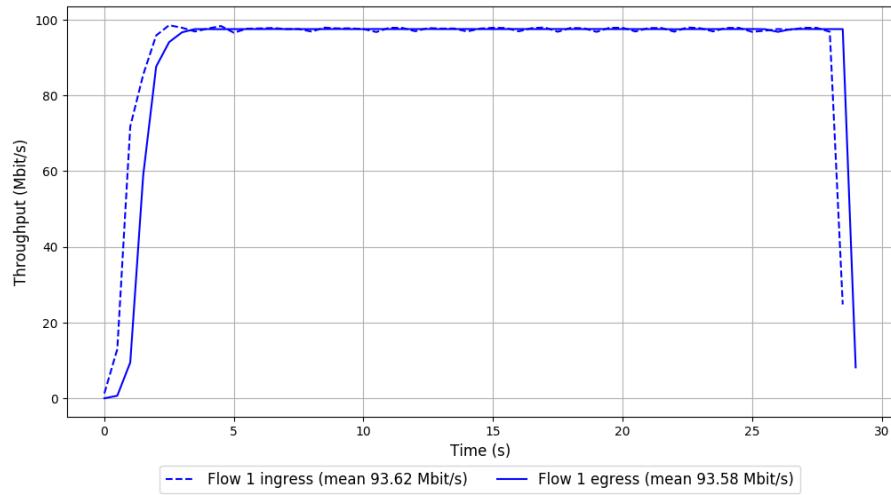


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-06-28 06:21:16
End at: 2019-06-28 06:21:46
Local clock offset: -7.885 ms
Remote clock offset: 55.375 ms

# Below is generated by plot.py at 2019-06-28 08:16:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 97.440 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 97.440 ms
Loss rate: 0.65%
```

Run 1: Report of Indigo-MusesC5 — Data Link

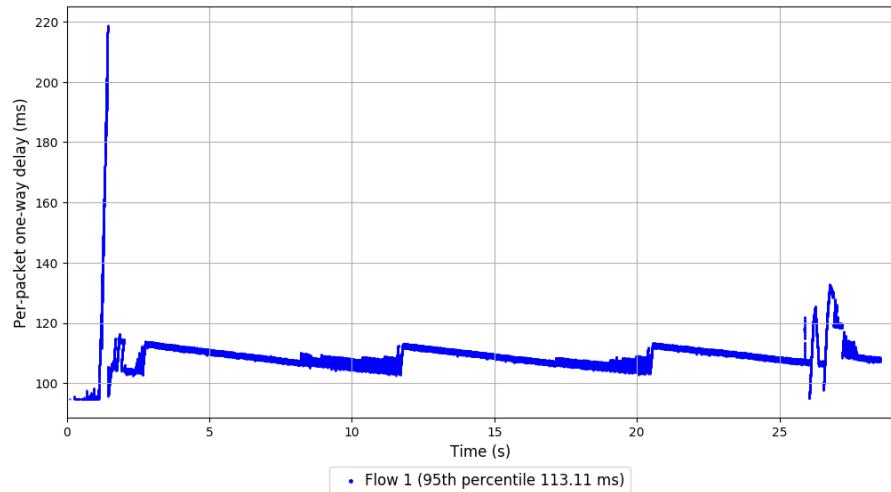
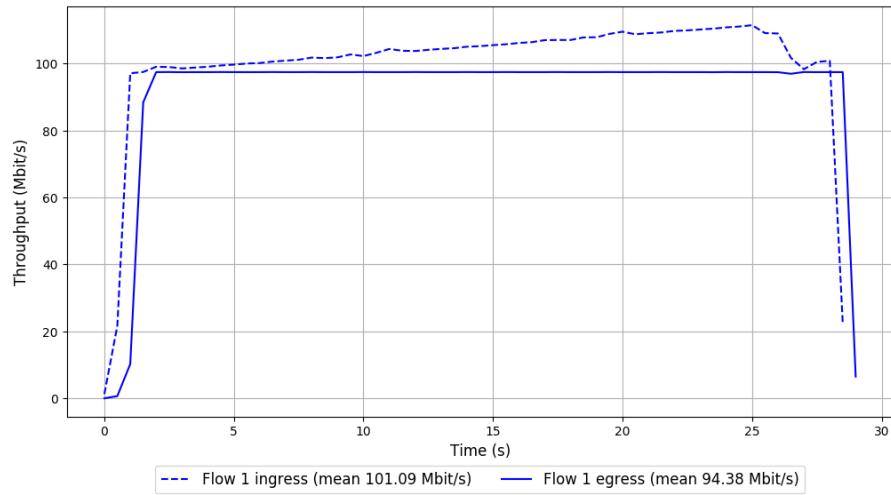


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-06-28 06:47:26
End at: 2019-06-28 06:47:56
Local clock offset: -7.006 ms
Remote clock offset: 62.231 ms

# Below is generated by plot.py at 2019-06-28 08:16:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 113.113 ms
Loss rate: 7.20%
-- Flow 1:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 113.113 ms
Loss rate: 7.20%
```

Run 2: Report of Indigo-MusesC5 — Data Link

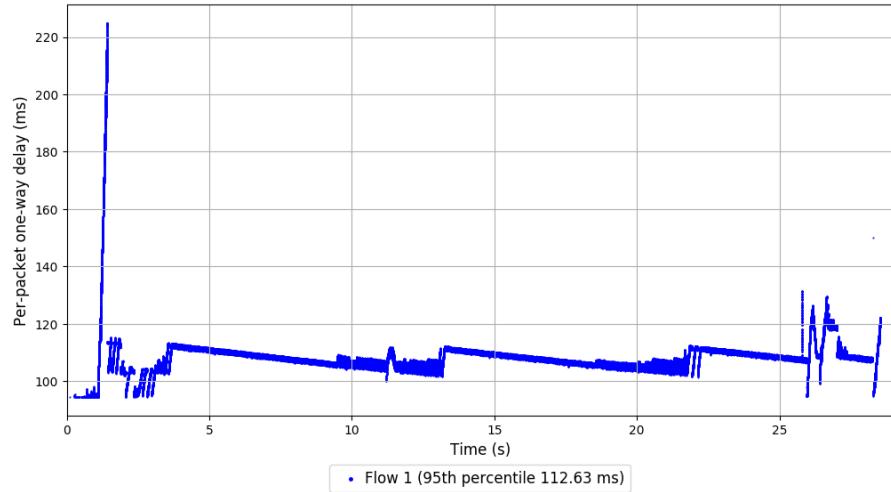
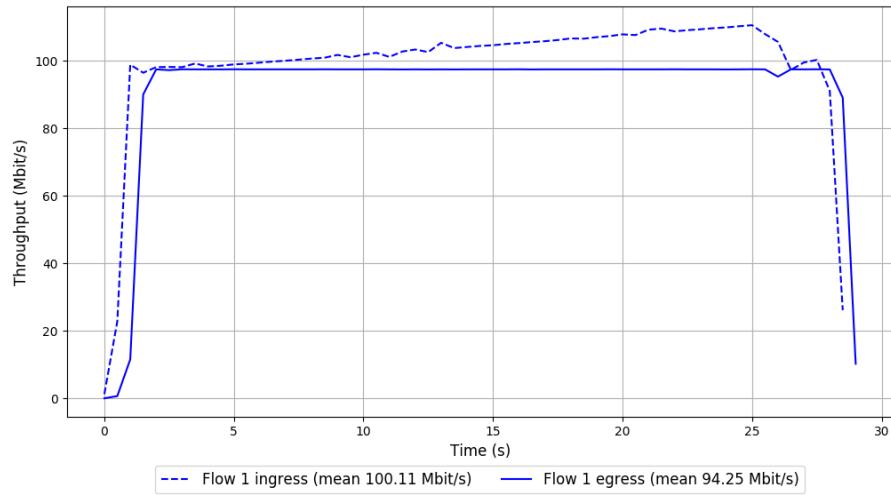


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-06-28 07:13:39
End at: 2019-06-28 07:14:09
Local clock offset: -6.777 ms
Remote clock offset: 76.557 ms

# Below is generated by plot.py at 2019-06-28 08:16:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.25 Mbit/s
95th percentile per-packet one-way delay: 112.631 ms
Loss rate: 6.42%
-- Flow 1:
Average throughput: 94.25 Mbit/s
95th percentile per-packet one-way delay: 112.631 ms
Loss rate: 6.42%
```

Run 3: Report of Indigo-MusesC5 — Data Link

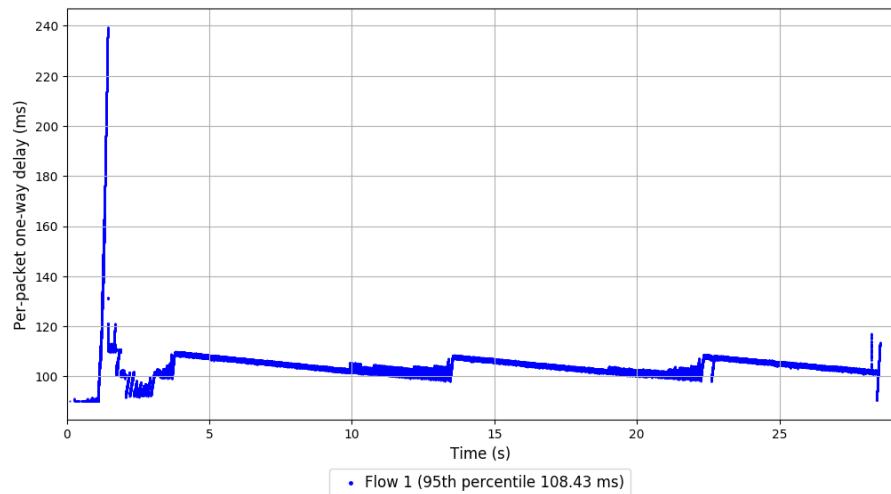
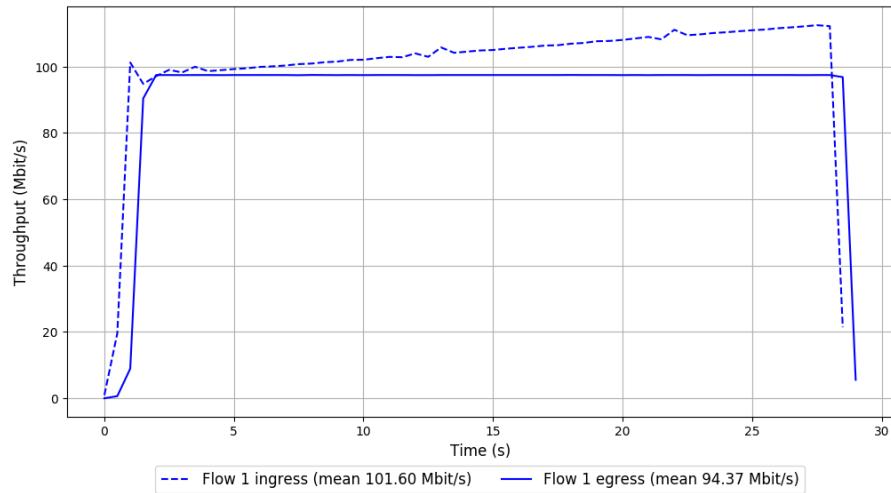


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-06-28 07:39:50
End at: 2019-06-28 07:40:20
Local clock offset: -6.2 ms
Remote clock offset: 94.02 ms

# Below is generated by plot.py at 2019-06-28 08:17:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 108.427 ms
Loss rate: 7.68%
-- Flow 1:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 108.427 ms
Loss rate: 7.68%
```

Run 4: Report of Indigo-MusesC5 — Data Link

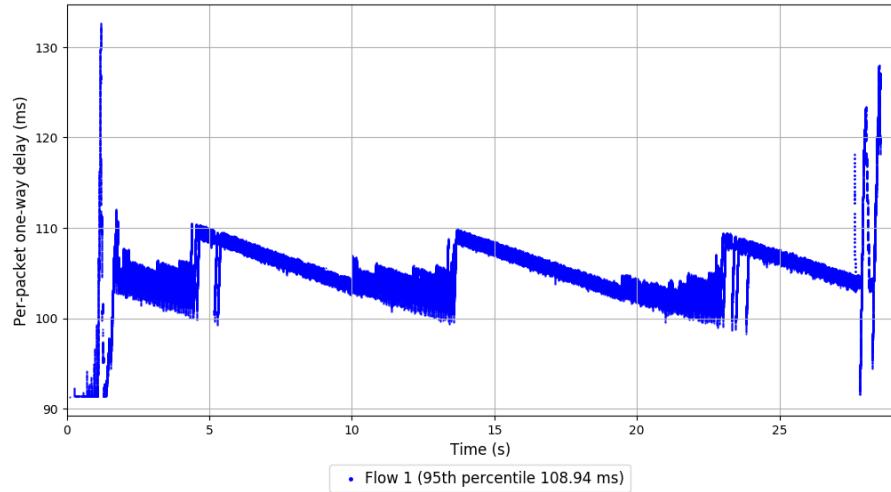
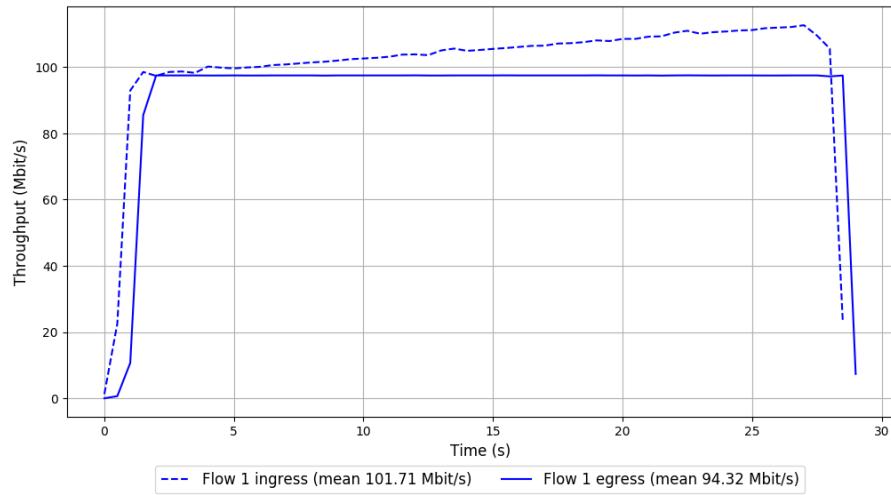


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-06-28 08:06:01
End at: 2019-06-28 08:06:31
Local clock offset: -6.661 ms
Remote clock offset: 105.924 ms

# Below is generated by plot.py at 2019-06-28 08:17:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 108.944 ms
Loss rate: 7.83%
-- Flow 1:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 108.944 ms
Loss rate: 7.83%
```

Run 5: Report of Indigo-MusesC5 — Data Link

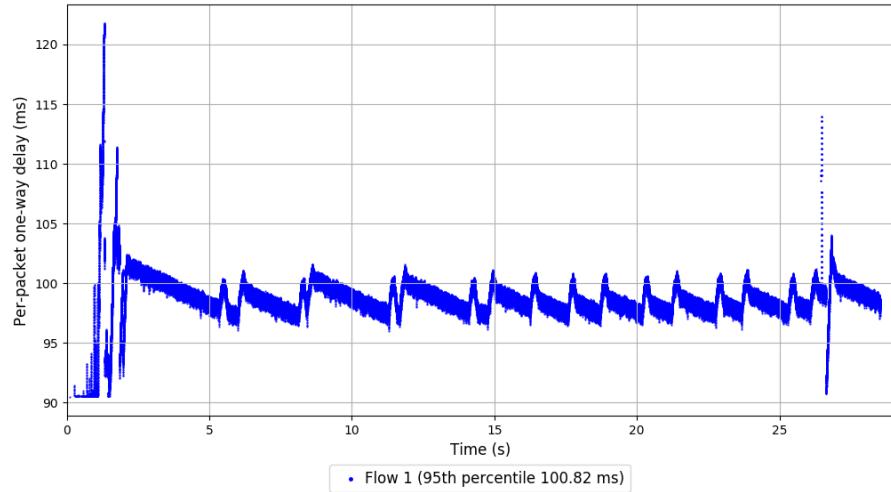
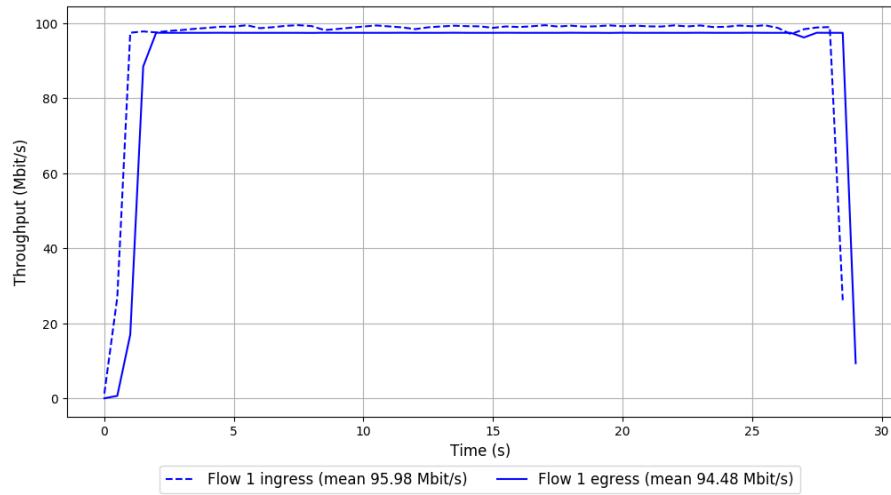


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-06-28 06:16:28
End at: 2019-06-28 06:16:58
Local clock offset: -9.072 ms
Remote clock offset: 50.877 ms

# Below is generated by plot.py at 2019-06-28 08:17:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.48 Mbit/s
95th percentile per-packet one-way delay: 100.816 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 94.48 Mbit/s
95th percentile per-packet one-way delay: 100.816 ms
Loss rate: 2.16%
```

Run 1: Report of Indigo-MusesD — Data Link

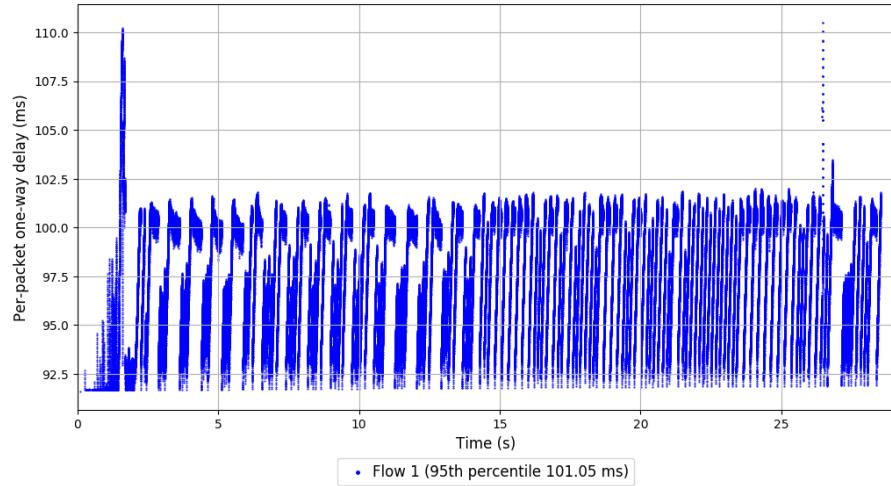
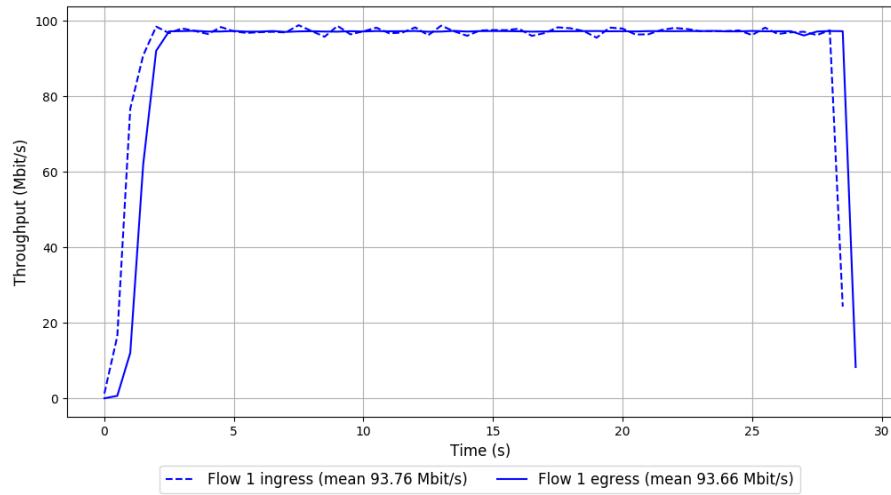


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-06-28 06:42:38
End at: 2019-06-28 06:43:08
Local clock offset: -6.365 ms
Remote clock offset: 63.716 ms

# Below is generated by plot.py at 2019-06-28 08:17:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 101.054 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 101.054 ms
Loss rate: 0.70%
```

Run 2: Report of Indigo-MusesD — Data Link

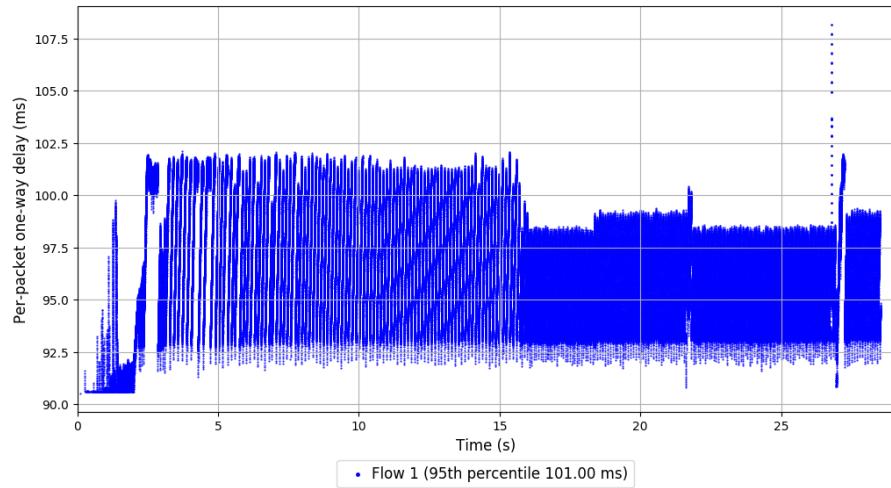
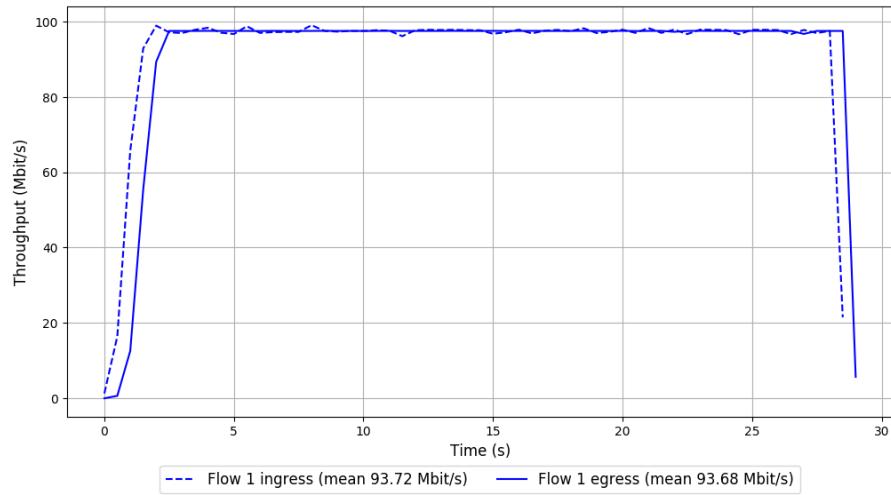


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-06-28 07:08:51
End at: 2019-06-28 07:09:21
Local clock offset: -6.911 ms
Remote clock offset: 77.191 ms

# Below is generated by plot.py at 2019-06-28 08:17:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 101.000 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 101.000 ms
Loss rate: 0.65%
```

Run 3: Report of Indigo-MusesD — Data Link

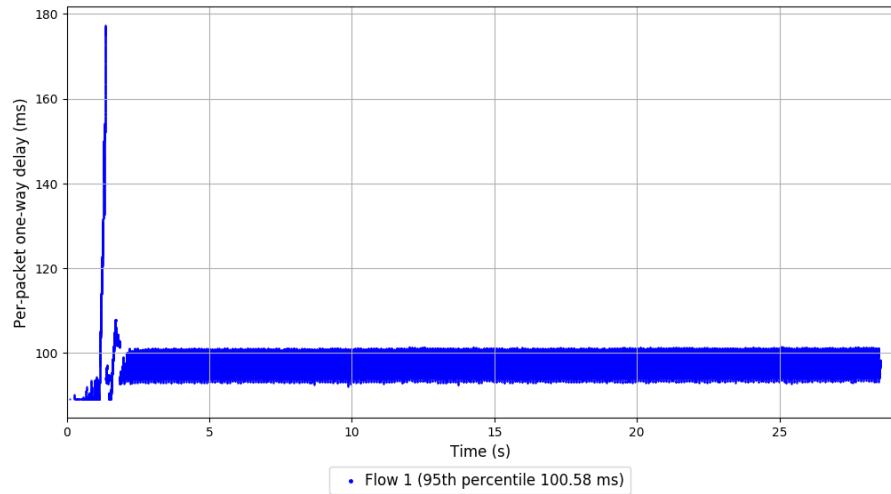
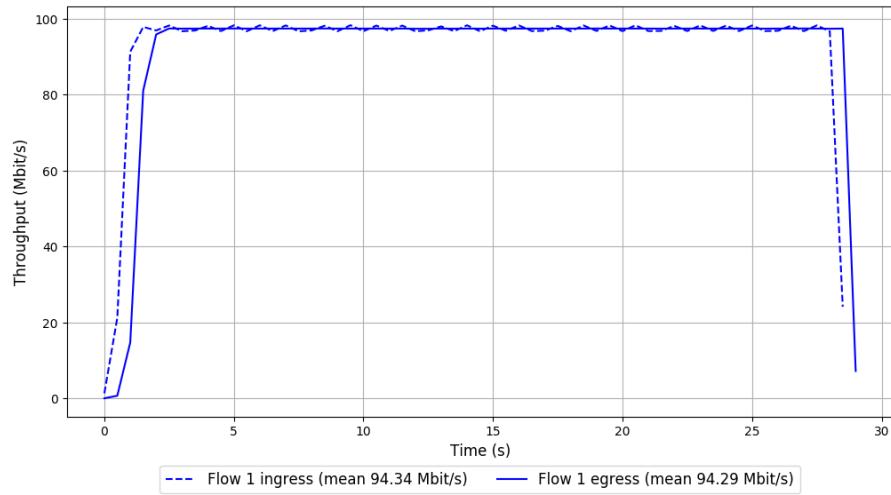


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-06-28 07:35:02
End at: 2019-06-28 07:35:32
Local clock offset: -7.036 ms
Remote clock offset: 91.327 ms

# Below is generated by plot.py at 2019-06-28 08:17:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 100.579 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 100.579 ms
Loss rate: 0.66%
```

Run 4: Report of Indigo-MusesD — Data Link

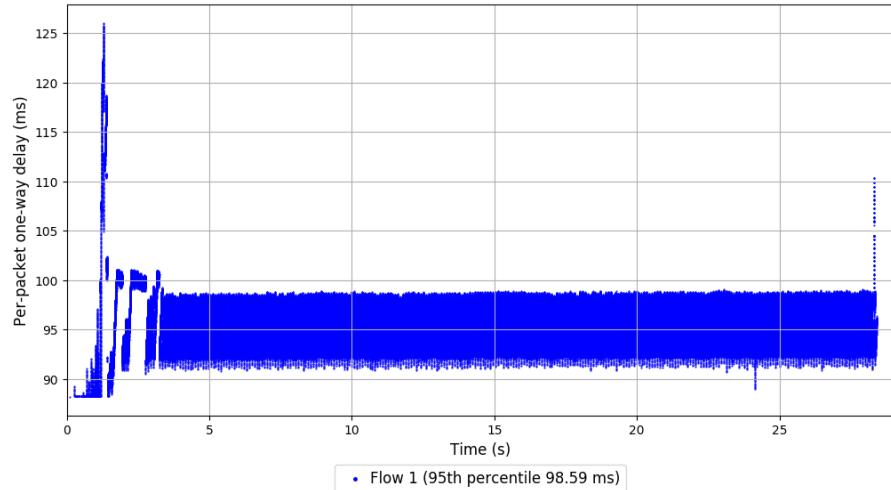
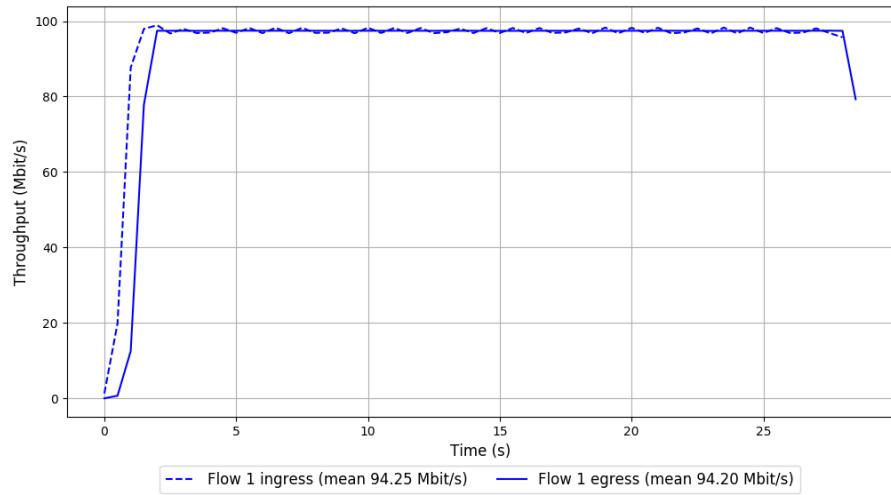


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-06-28 08:01:13
End at: 2019-06-28 08:01:43
Local clock offset: -7.187 ms
Remote clock offset: 105.584 ms

# Below is generated by plot.py at 2019-06-28 08:18:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.20 Mbit/s
95th percentile per-packet one-way delay: 98.589 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 94.20 Mbit/s
95th percentile per-packet one-way delay: 98.589 ms
Loss rate: 0.65%
```

Run 5: Report of Indigo-MusesD — Data Link

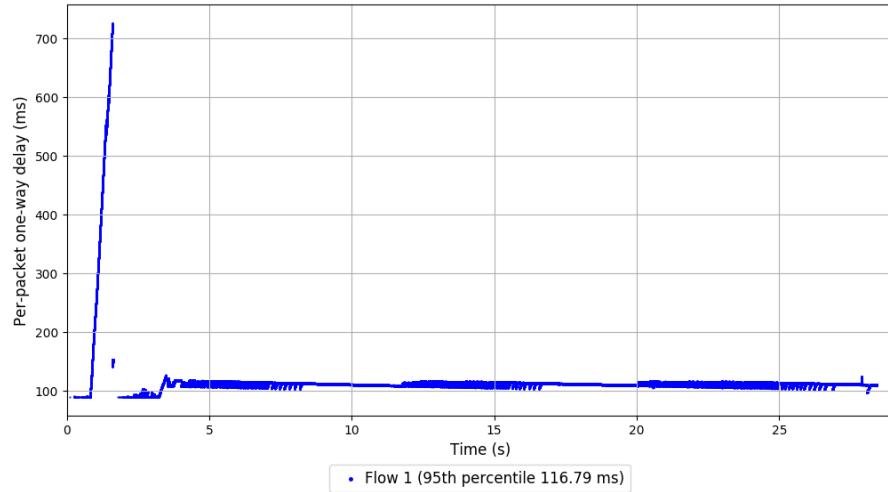
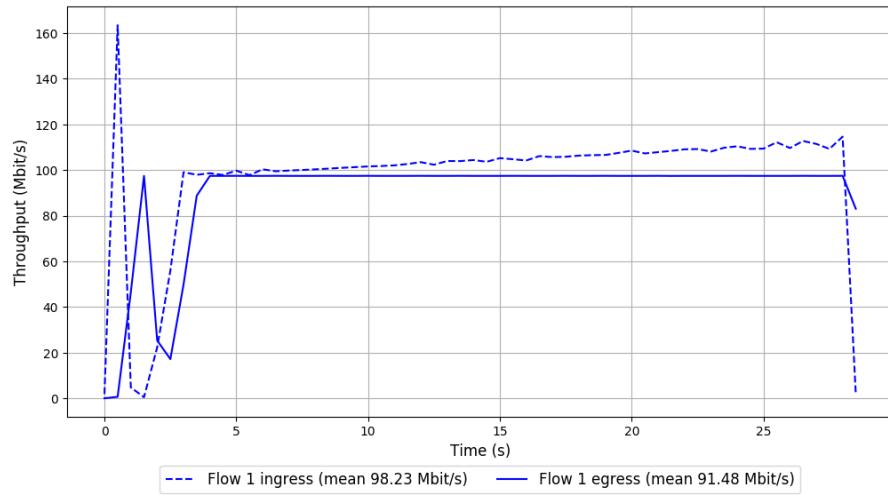


```
Run 1: Statistics of Indigo-MusesT
```

```
Start at: 2019-06-28 06:03:02
End at: 2019-06-28 06:03:32
Local clock offset: -7.802 ms
Remote clock offset: 45.09 ms

# Below is generated by plot.py at 2019-06-28 08:18:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 116.789 ms
Loss rate: 7.43%
-- Flow 1:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 116.789 ms
Loss rate: 7.43%
```

Run 1: Report of Indigo-MusesT — Data Link

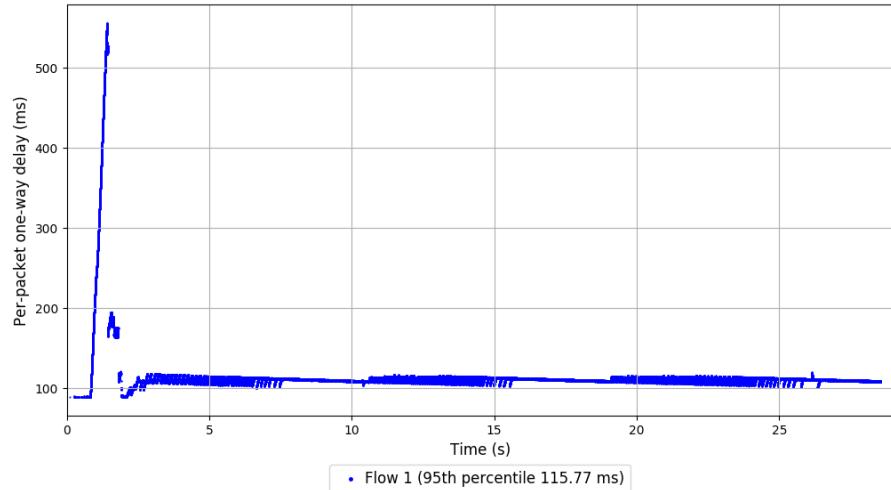
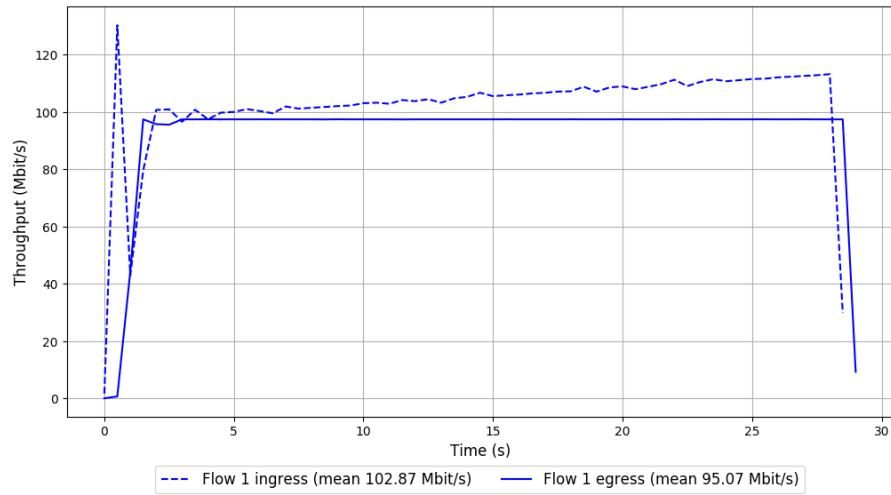


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-06-28 06:29:24
End at: 2019-06-28 06:29:55
Local clock offset: -6.852 ms
Remote clock offset: 59.694 ms

# Below is generated by plot.py at 2019-06-28 08:18:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 115.771 ms
Loss rate: 8.14%
-- Flow 1:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 115.771 ms
Loss rate: 8.14%
```

Run 2: Report of Indigo-MusesT — Data Link

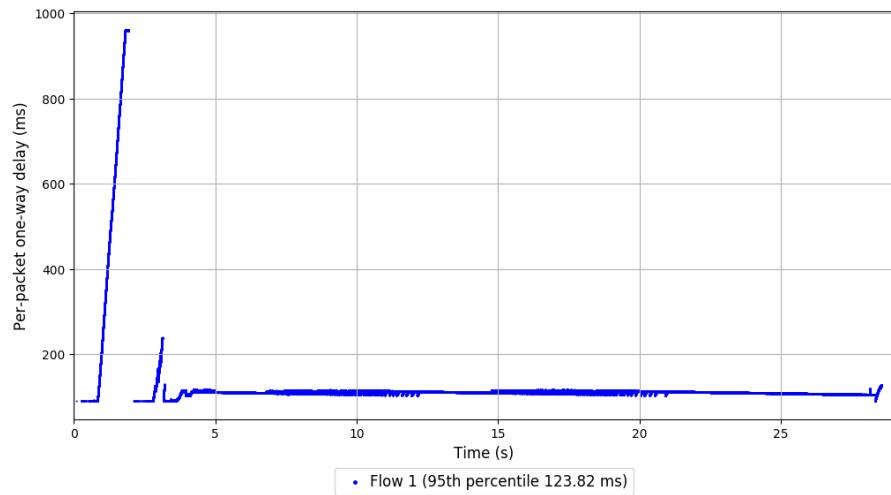
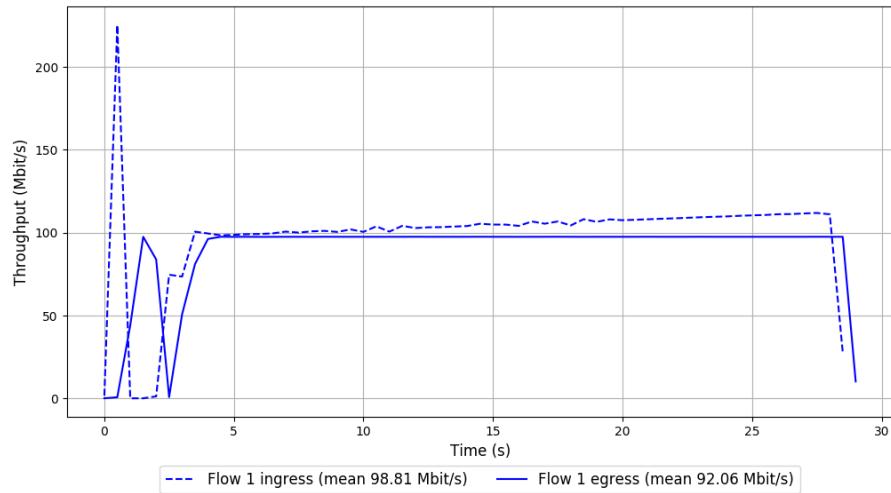


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-06-28 06:55:35
End at: 2019-06-28 06:56:05
Local clock offset: -6.498 ms
Remote clock offset: 71.608 ms

# Below is generated by plot.py at 2019-06-28 08:18:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.06 Mbit/s
95th percentile per-packet one-way delay: 123.821 ms
Loss rate: 7.40%
-- Flow 1:
Average throughput: 92.06 Mbit/s
95th percentile per-packet one-way delay: 123.821 ms
Loss rate: 7.40%
```

Run 3: Report of Indigo-MusesT — Data Link

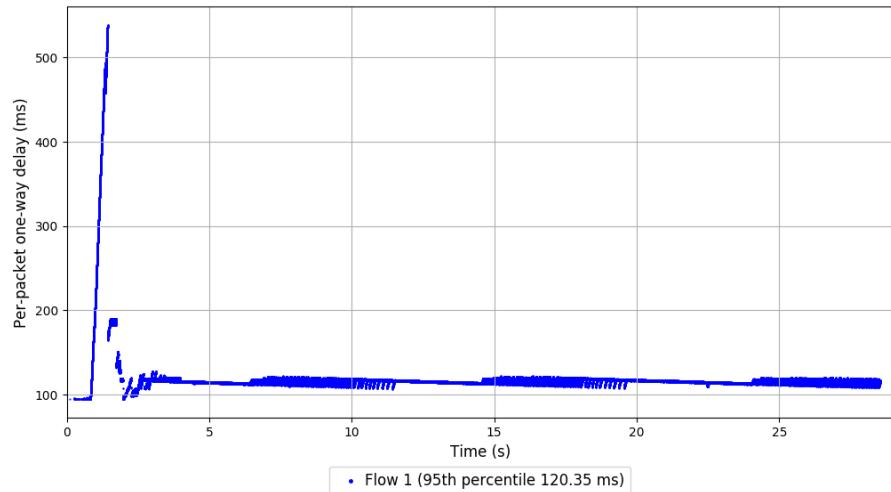
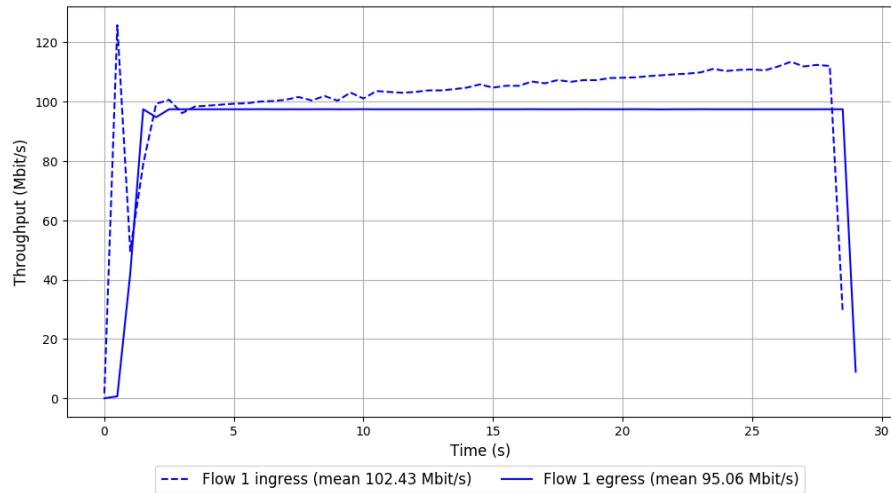


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-06-28 07:21:48
End at: 2019-06-28 07:22:18
Local clock offset: -6.56 ms
Remote clock offset: 79.805 ms

# Below is generated by plot.py at 2019-06-28 08:18:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.06 Mbit/s
95th percentile per-packet one-way delay: 120.347 ms
Loss rate: 7.75%
-- Flow 1:
Average throughput: 95.06 Mbit/s
95th percentile per-packet one-way delay: 120.347 ms
Loss rate: 7.75%
```

Run 4: Report of Indigo-MusesT — Data Link

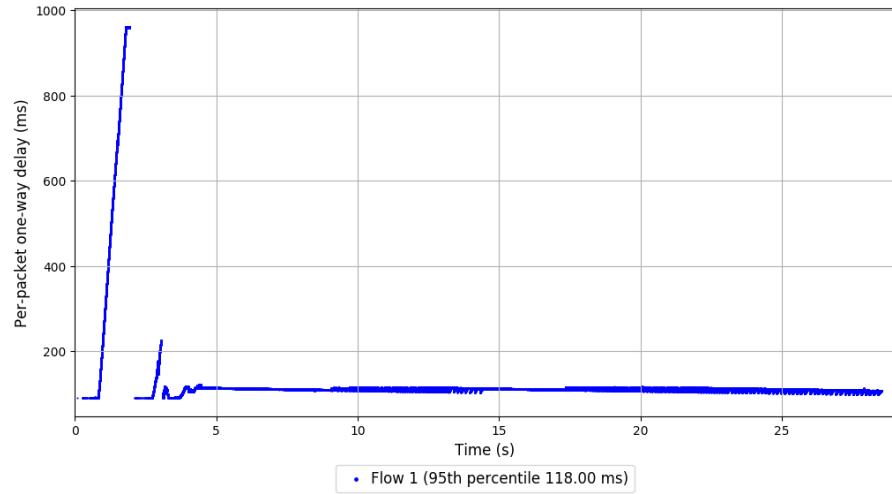
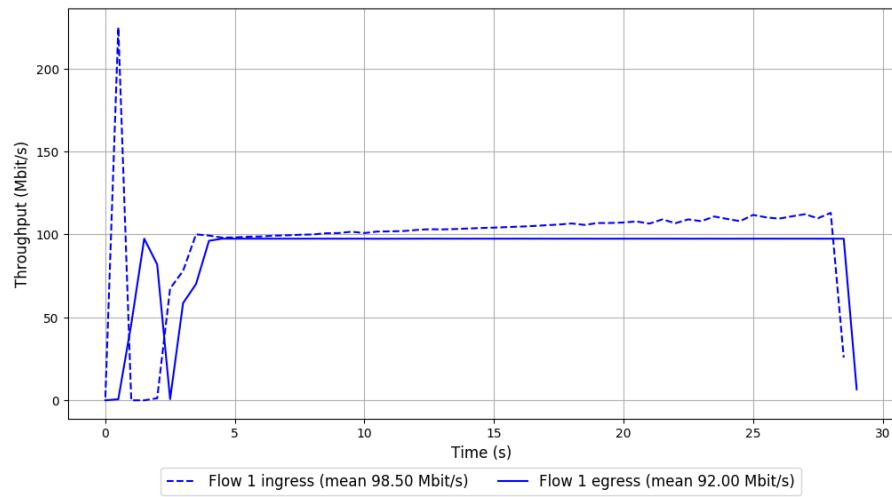


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-06-28 07:47:59
End at: 2019-06-28 07:48:29
Local clock offset: -6.185 ms
Remote clock offset: 98.025 ms

# Below is generated by plot.py at 2019-06-28 08:18:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.00 Mbit/s
95th percentile per-packet one-way delay: 118.001 ms
Loss rate: 7.17%
-- Flow 1:
Average throughput: 92.00 Mbit/s
95th percentile per-packet one-way delay: 118.001 ms
Loss rate: 7.17%
```

Run 5: Report of Indigo-MusesT — Data Link

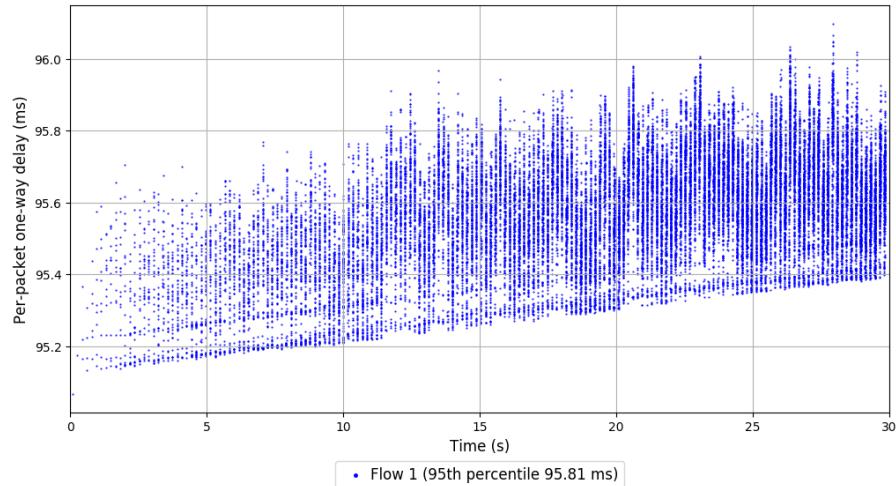
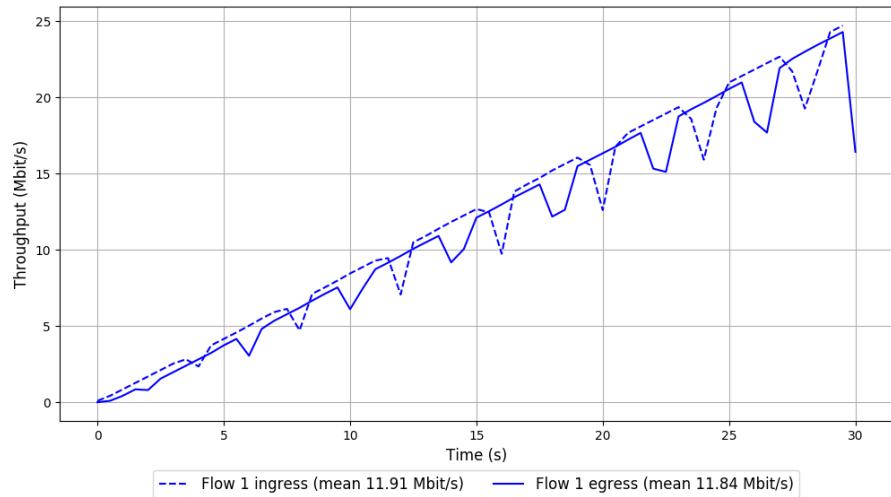


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-06-28 06:05:25
End at: 2019-06-28 06:05:55
Local clock offset: -7.755 ms
Remote clock offset: 40.959 ms

# Below is generated by plot.py at 2019-06-28 08:18:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 95.815 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 95.815 ms
Loss rate: 1.16%
```

Run 1: Report of LEDBAT — Data Link

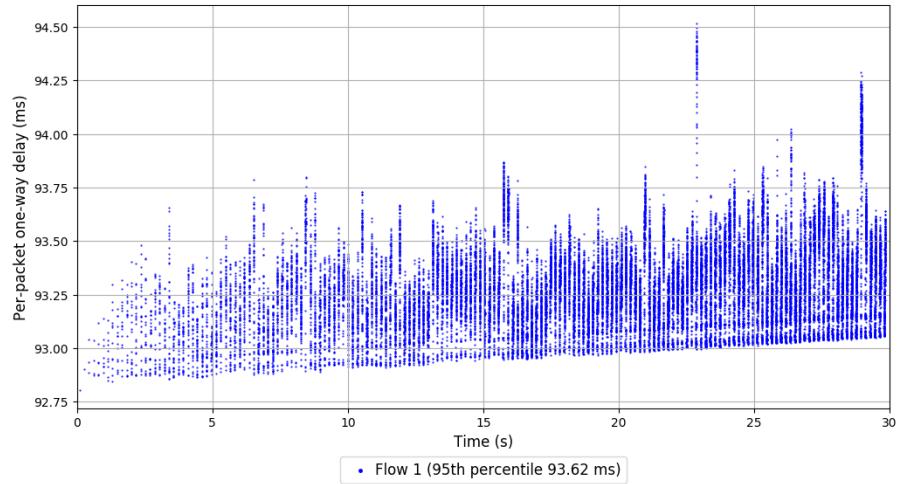
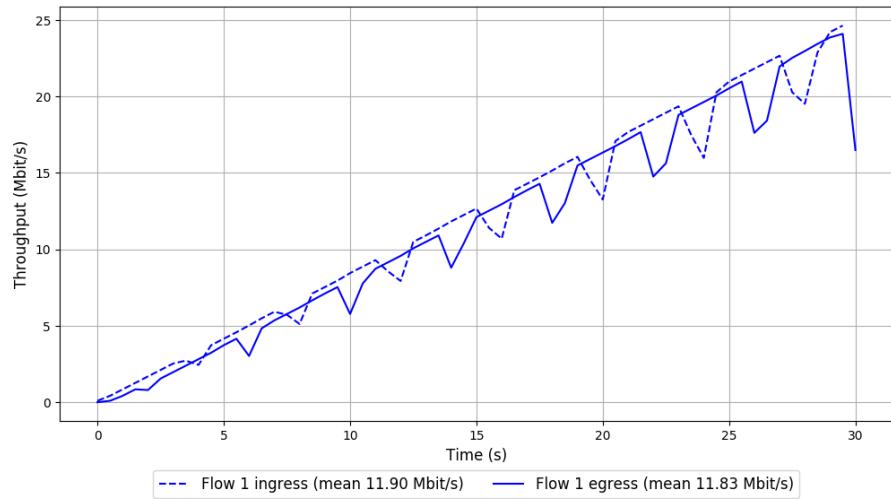


Run 2: Statistics of LEDBAT

```
Start at: 2019-06-28 06:31:48
End at: 2019-06-28 06:32:18
Local clock offset: -7.421 ms
Remote clock offset: 55.673 ms

# Below is generated by plot.py at 2019-06-28 08:18:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.83 Mbit/s
95th percentile per-packet one-way delay: 93.618 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 11.83 Mbit/s
95th percentile per-packet one-way delay: 93.618 ms
Loss rate: 1.16%
```

Run 2: Report of LEDBAT — Data Link

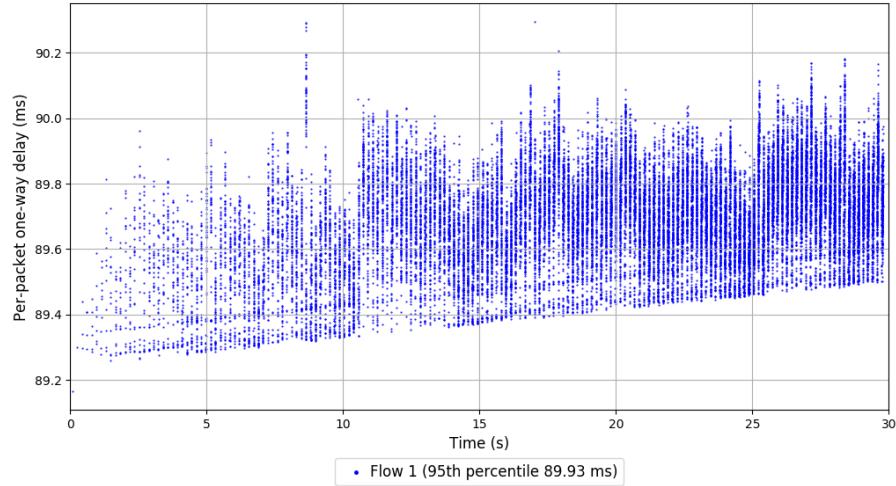
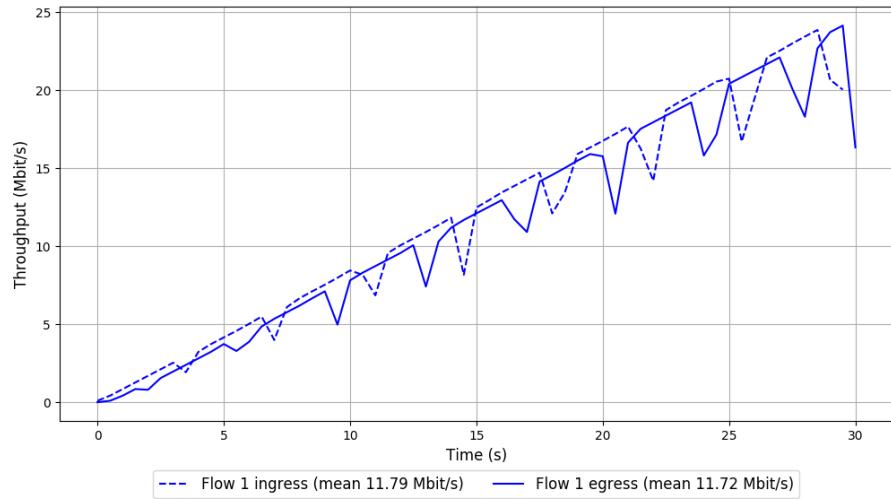


Run 3: Statistics of LEDBAT

```
Start at: 2019-06-28 06:57:59
End at: 2019-06-28 06:58:29
Local clock offset: -6.574 ms
Remote clock offset: 73.96 ms

# Below is generated by plot.py at 2019-06-28 08:18:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 89.930 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 89.930 ms
Loss rate: 1.17%
```

Run 3: Report of LEDBAT — Data Link

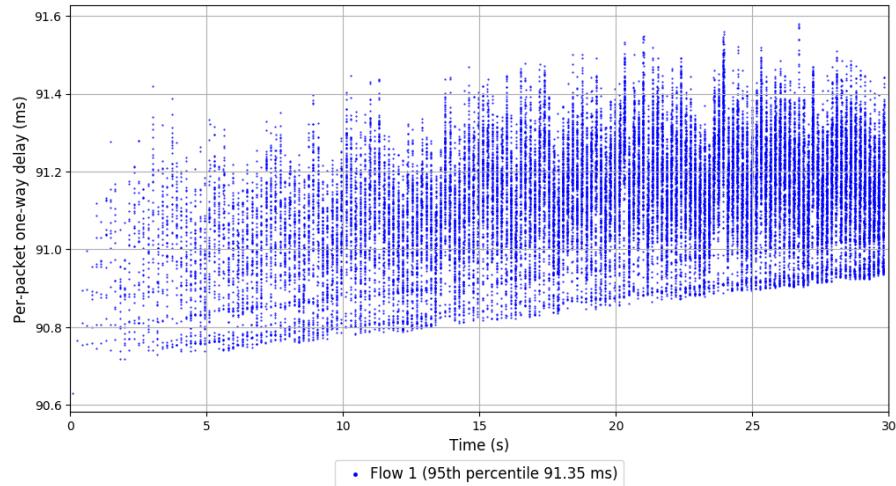
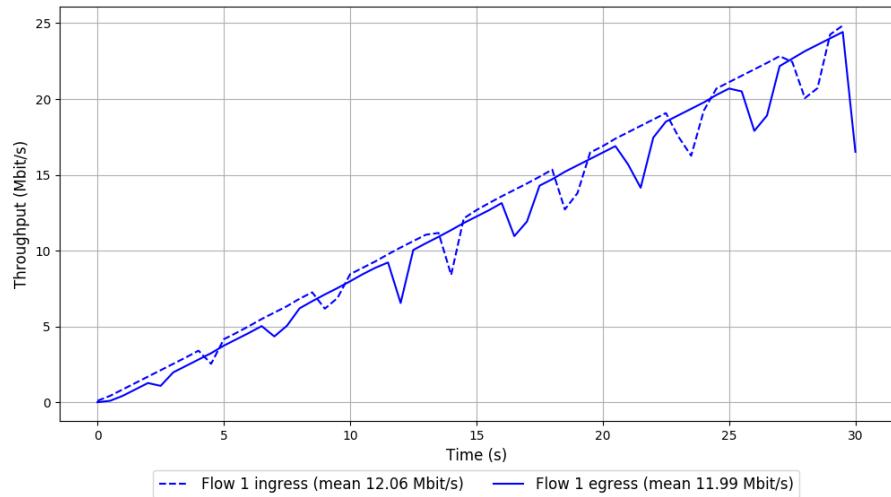


Run 4: Statistics of LEDBAT

```
Start at: 2019-06-28 07:24:12
End at: 2019-06-28 07:24:42
Local clock offset: -7.278 ms
Remote clock offset: 84.878 ms

# Below is generated by plot.py at 2019-06-28 08:18:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 91.353 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 91.353 ms
Loss rate: 1.15%
```

Run 4: Report of LEDBAT — Data Link

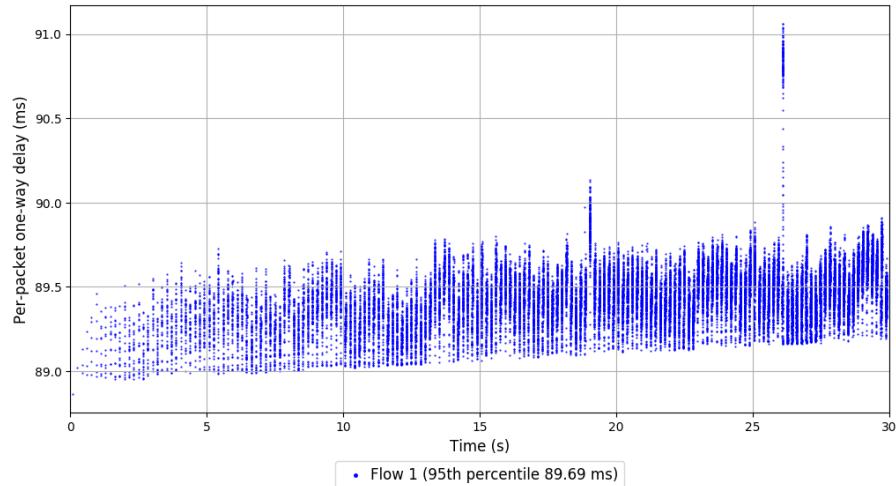
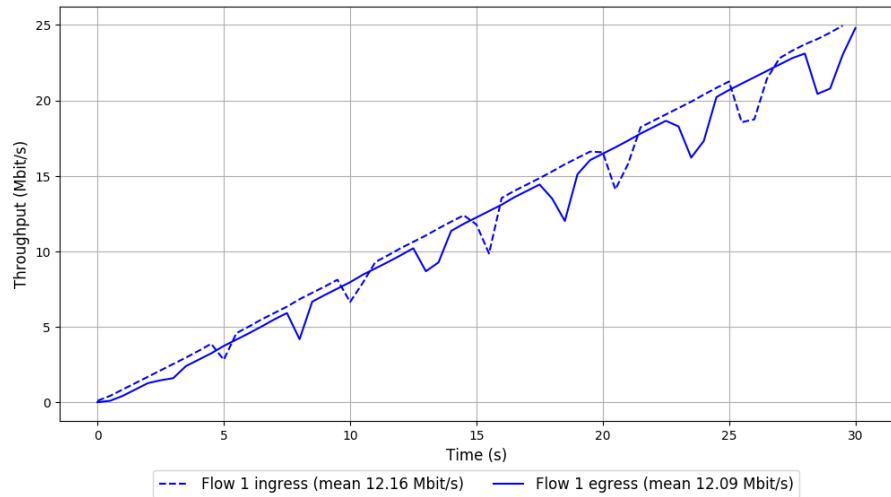


Run 5: Statistics of LEDBAT

```
Start at: 2019-06-28 07:50:22
End at: 2019-06-28 07:50:52
Local clock offset: -6.985 ms
Remote clock offset: 99.244 ms

# Below is generated by plot.py at 2019-06-28 08:18:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 89.695 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 89.695 ms
Loss rate: 1.15%
```

Run 5: Report of LEDBAT — Data Link

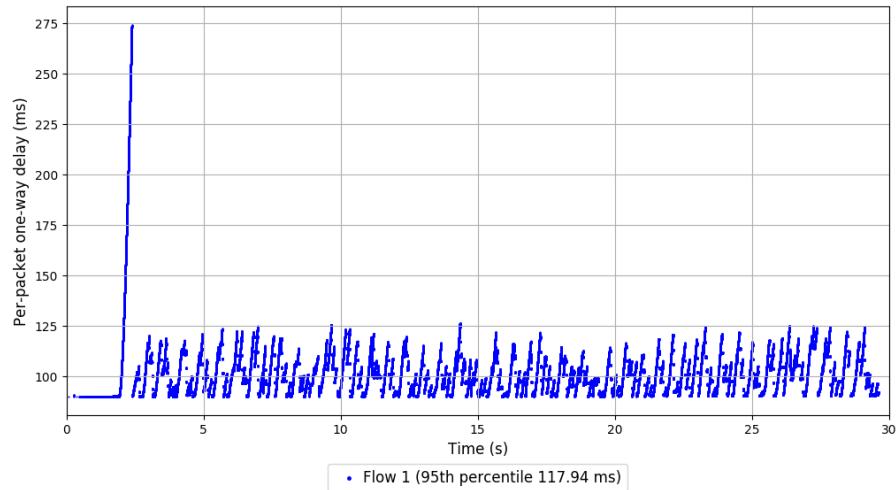
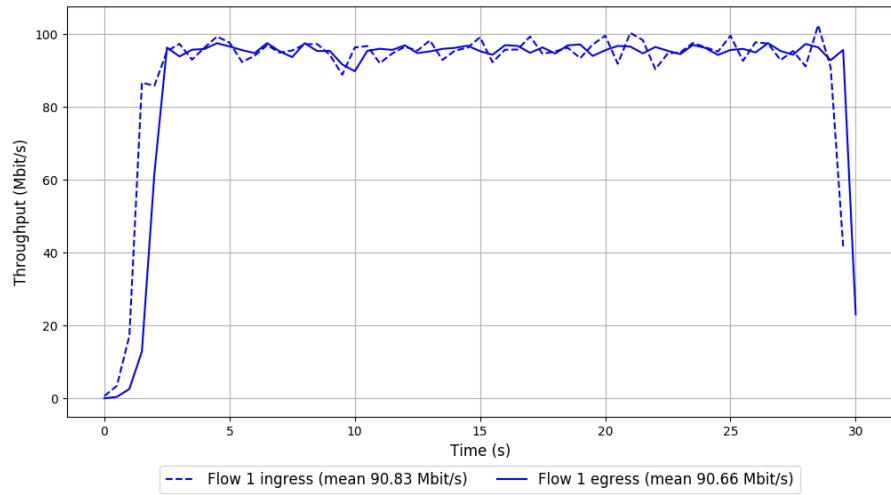


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 06:07:47
End at: 2019-06-28 06:08:17
Local clock offset: -8.681 ms
Remote clock offset: 47.268 ms

# Below is generated by plot.py at 2019-06-28 08:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.66 Mbit/s
95th percentile per-packet one-way delay: 117.935 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 90.66 Mbit/s
95th percentile per-packet one-way delay: 117.935 ms
Loss rate: 0.77%
```

Run 1: Report of Muses_DecisionTree — Data Link

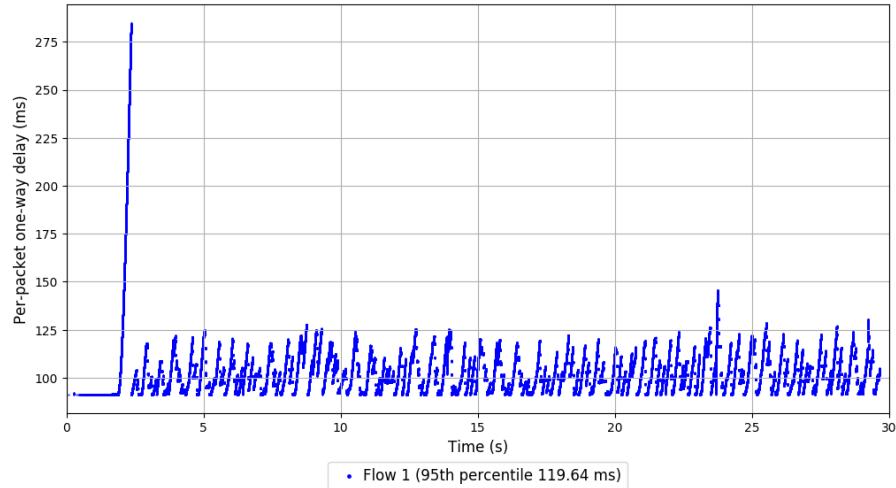
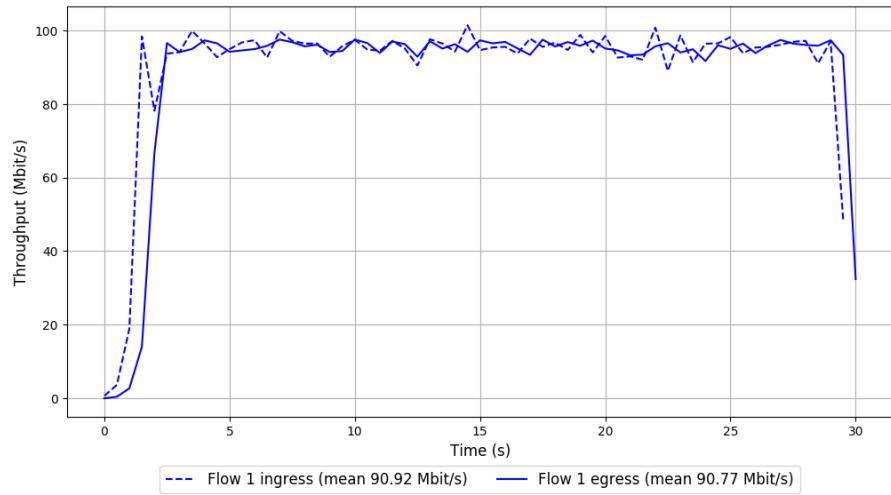


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 06:34:09
End at: 2019-06-28 06:34:39
Local clock offset: -6.731 ms
Remote clock offset: 59.42 ms

# Below is generated by plot.py at 2019-06-28 08:19:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.77 Mbit/s
95th percentile per-packet one-way delay: 119.639 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 90.77 Mbit/s
95th percentile per-packet one-way delay: 119.639 ms
Loss rate: 0.74%
```

Run 2: Report of Muses_DecisionTree — Data Link

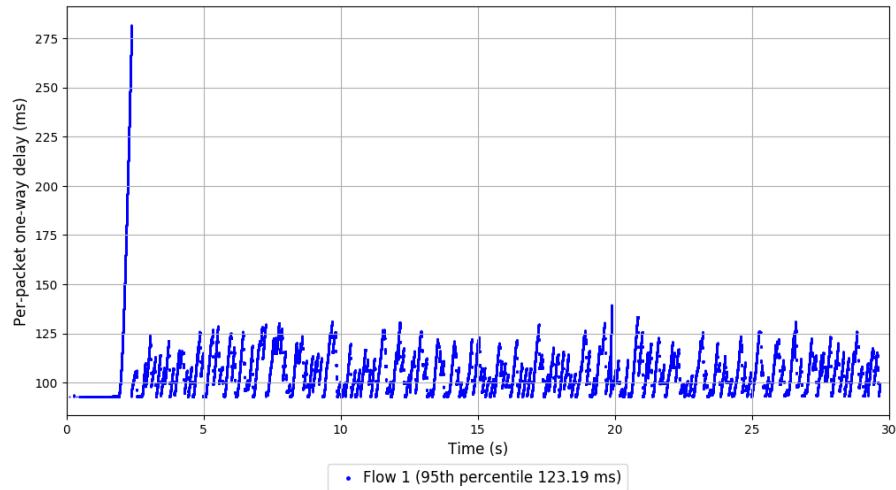
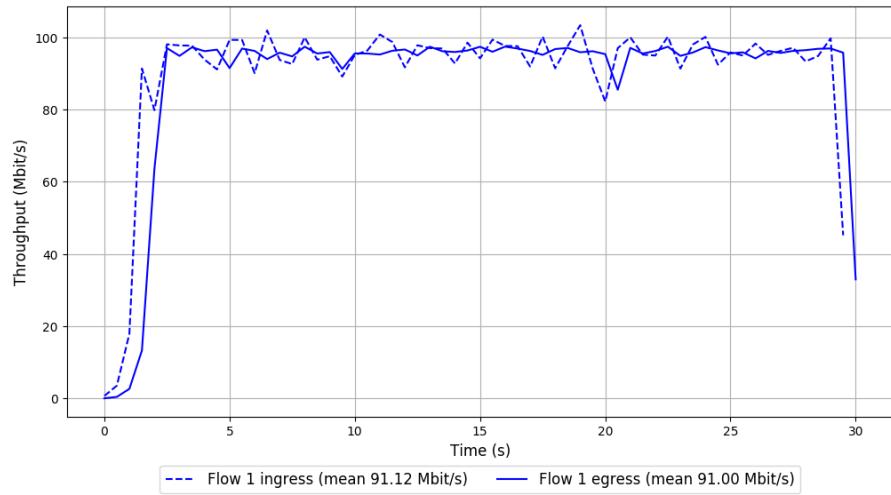


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 07:00:20
End at: 2019-06-28 07:00:50
Local clock offset: -7.597 ms
Remote clock offset: 70.11 ms

# Below is generated by plot.py at 2019-06-28 08:19:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 123.188 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 123.188 ms
Loss rate: 0.72%
```

Run 3: Report of Muses_DecisionTree — Data Link

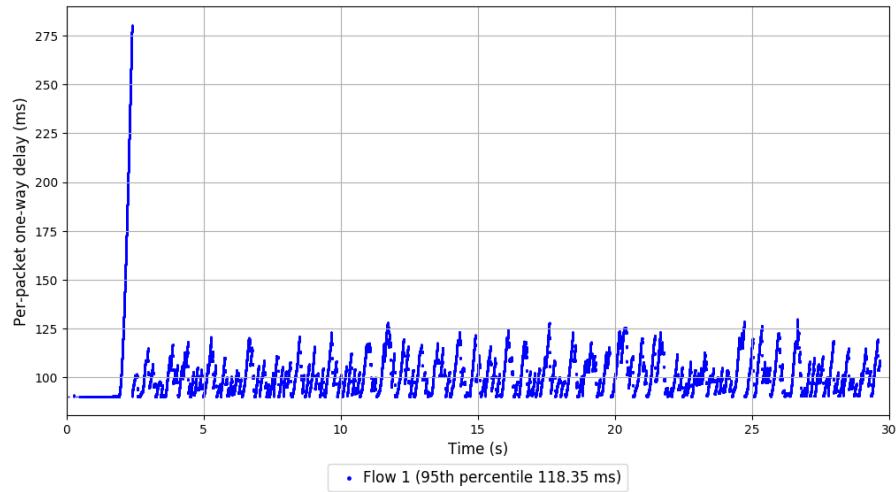
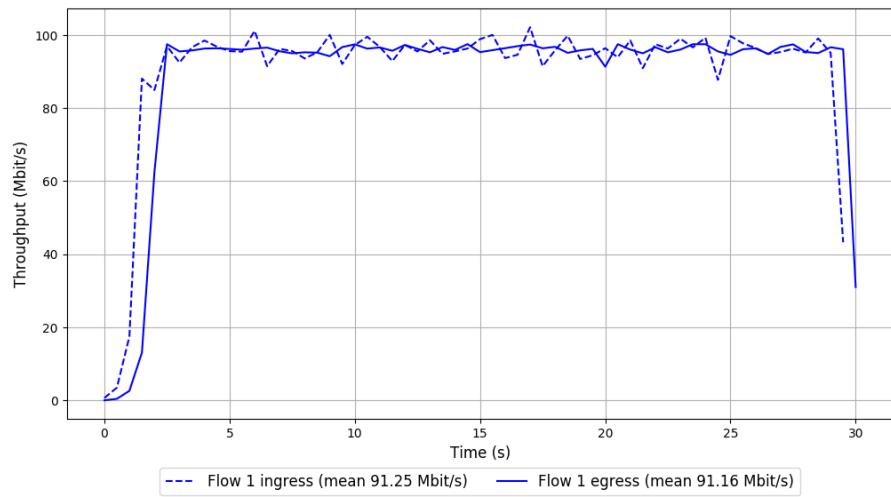


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 07:26:33
End at: 2019-06-28 07:27:03
Local clock offset: -6.621 ms
Remote clock offset: 87.147 ms

# Below is generated by plot.py at 2019-06-28 08:19:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.16 Mbit/s
95th percentile per-packet one-way delay: 118.348 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 91.16 Mbit/s
95th percentile per-packet one-way delay: 118.348 ms
Loss rate: 0.69%
```

Run 4: Report of Muses_DecisionTree — Data Link

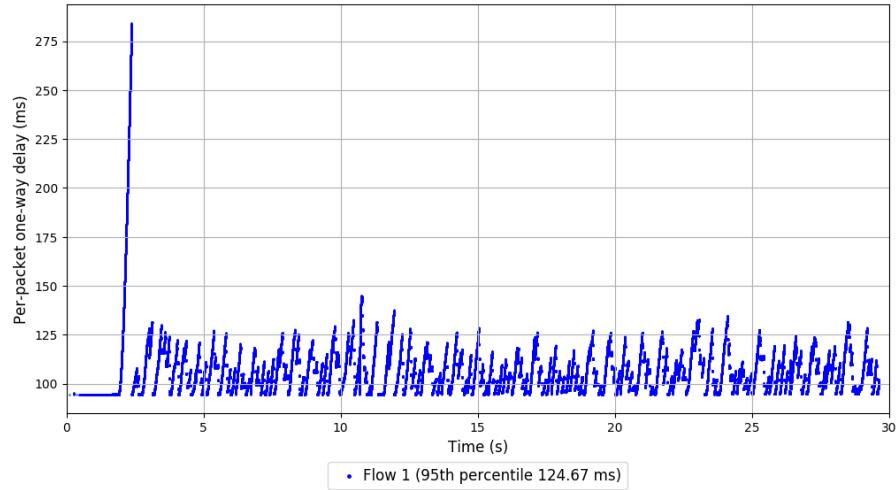
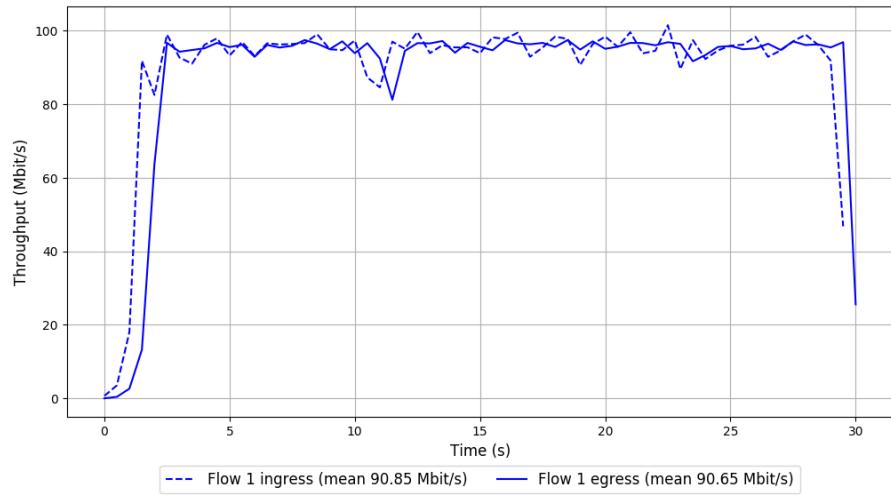


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 07:52:43
End at: 2019-06-28 07:53:13
Local clock offset: -6.274 ms
Remote clock offset: 96.326 ms

# Below is generated by plot.py at 2019-06-28 08:19:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 124.666 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 124.666 ms
Loss rate: 0.81%
```

Run 5: Report of Muses_DecisionTree — Data Link

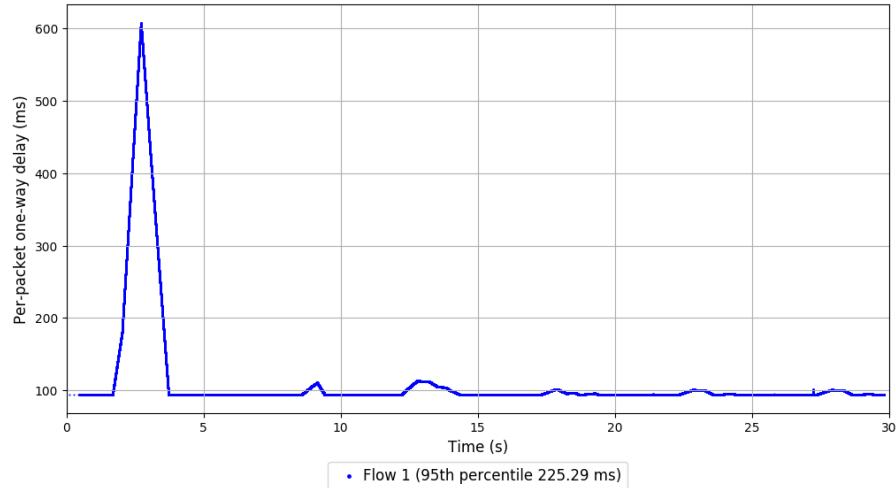
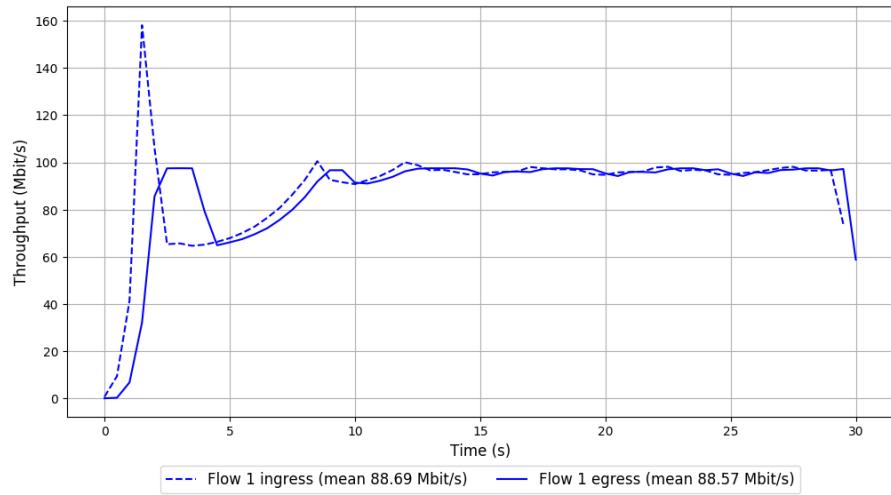


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-06-28 06:17:40
End at: 2019-06-28 06:18:10
Local clock offset: -8.385 ms
Remote clock offset: 48.514 ms

# Below is generated by plot.py at 2019-06-28 08:19:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.57 Mbit/s
95th percentile per-packet one-way delay: 225.288 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 88.57 Mbit/s
95th percentile per-packet one-way delay: 225.288 ms
Loss rate: 0.72%
```

Run 1: Report of PCC-Allegro — Data Link

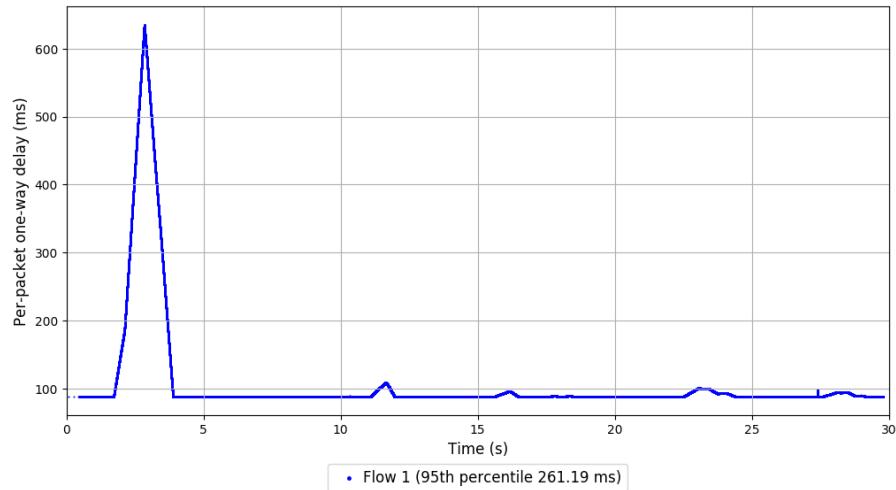
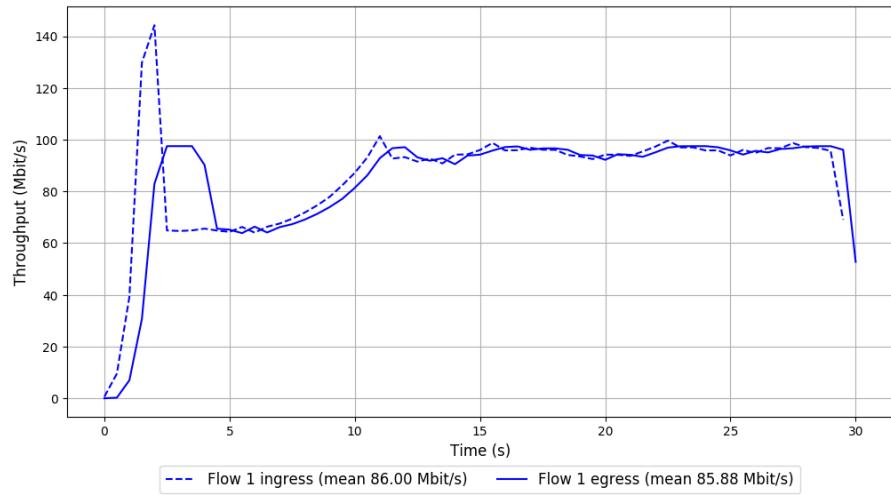


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-06-28 06:43:50
End at: 2019-06-28 06:44:20
Local clock offset: -7.093 ms
Remote clock offset: 66.749 ms

# Below is generated by plot.py at 2019-06-28 08:19:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.88 Mbit/s
95th percentile per-packet one-way delay: 261.193 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 85.88 Mbit/s
95th percentile per-packet one-way delay: 261.193 ms
Loss rate: 0.72%
```

Run 2: Report of PCC-Allegro — Data Link

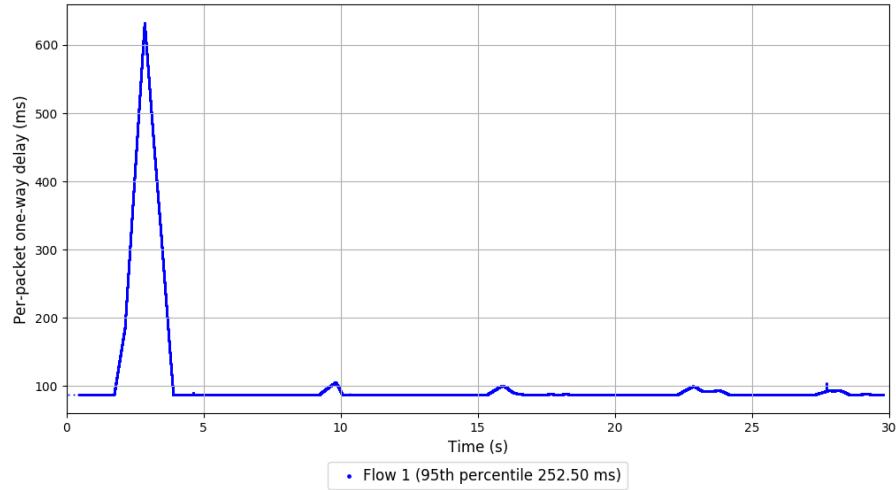
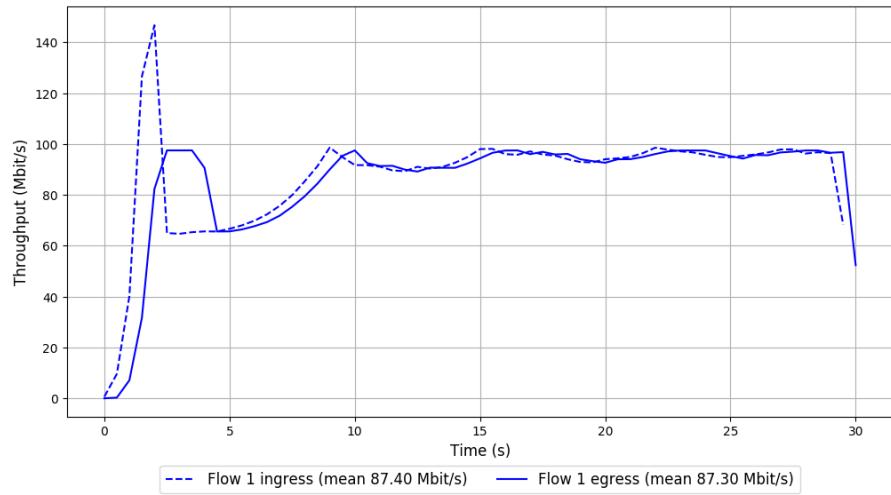


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-06-28 07:10:03
End at: 2019-06-28 07:10:33
Local clock offset: -7.577 ms
Remote clock offset: 80.079 ms

# Below is generated by plot.py at 2019-06-28 08:19:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.30 Mbit/s
95th percentile per-packet one-way delay: 252.495 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 87.30 Mbit/s
95th percentile per-packet one-way delay: 252.495 ms
Loss rate: 0.70%
```

Run 3: Report of PCC-Allegro — Data Link

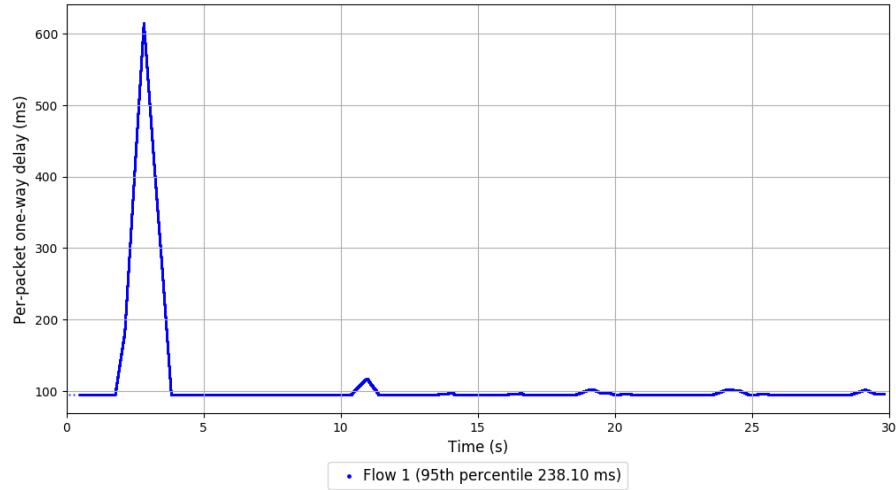
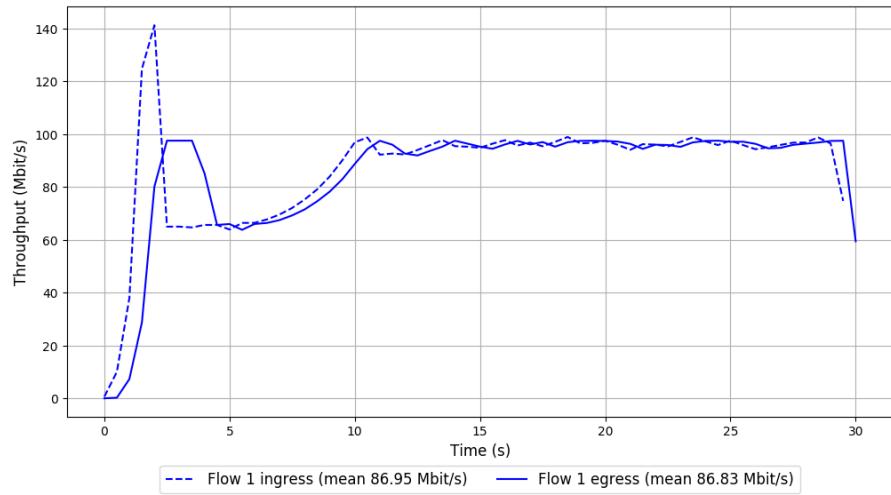


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-06-28 07:36:14
End at: 2019-06-28 07:36:44
Local clock offset: -6.424 ms
Remote clock offset: 86.769 ms

# Below is generated by plot.py at 2019-06-28 08:20:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.83 Mbit/s
95th percentile per-packet one-way delay: 238.099 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 86.83 Mbit/s
95th percentile per-packet one-way delay: 238.099 ms
Loss rate: 0.72%
```

Run 4: Report of PCC-Allegro — Data Link

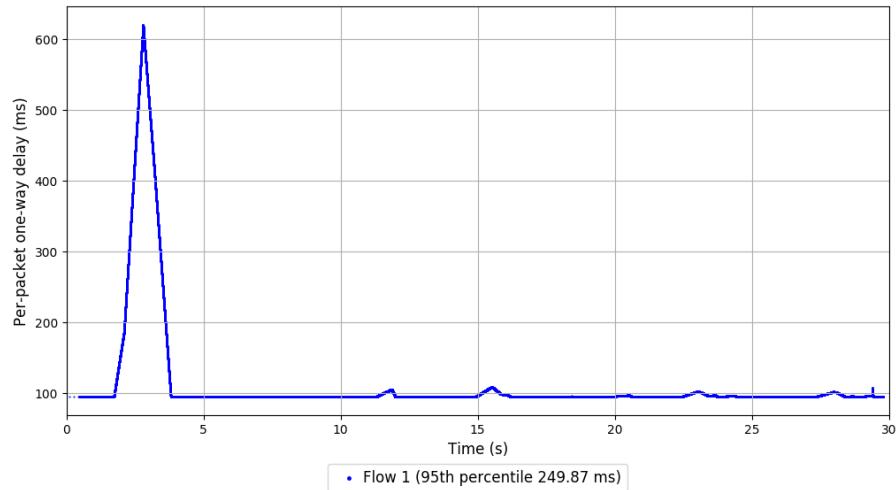
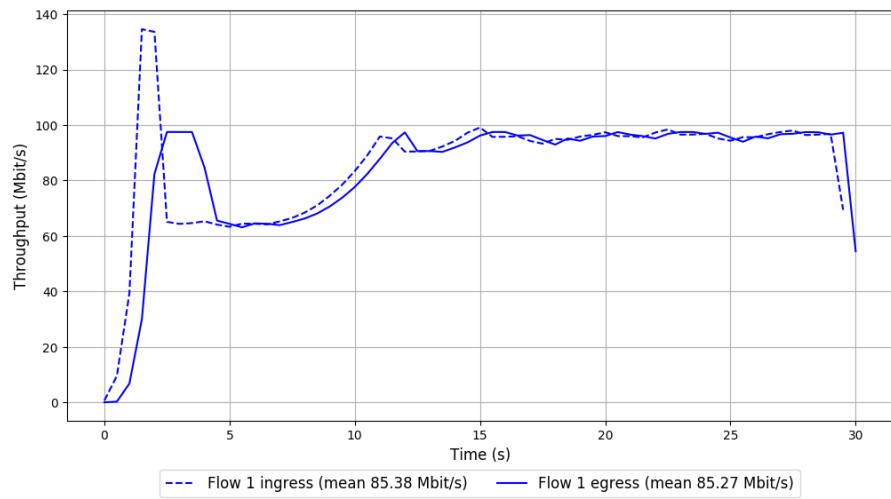


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-06-28 08:02:25
End at: 2019-06-28 08:02:55
Local clock offset: -6.473 ms
Remote clock offset: 100.023 ms

# Below is generated by plot.py at 2019-06-28 08:20:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.27 Mbit/s
95th percentile per-packet one-way delay: 249.866 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 85.27 Mbit/s
95th percentile per-packet one-way delay: 249.866 ms
Loss rate: 0.71%
```

Run 5: Report of PCC-Allegro — Data Link

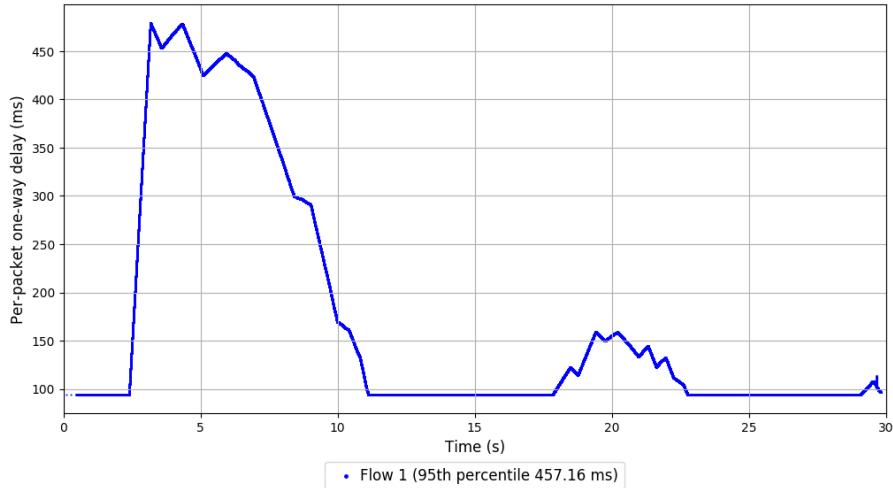
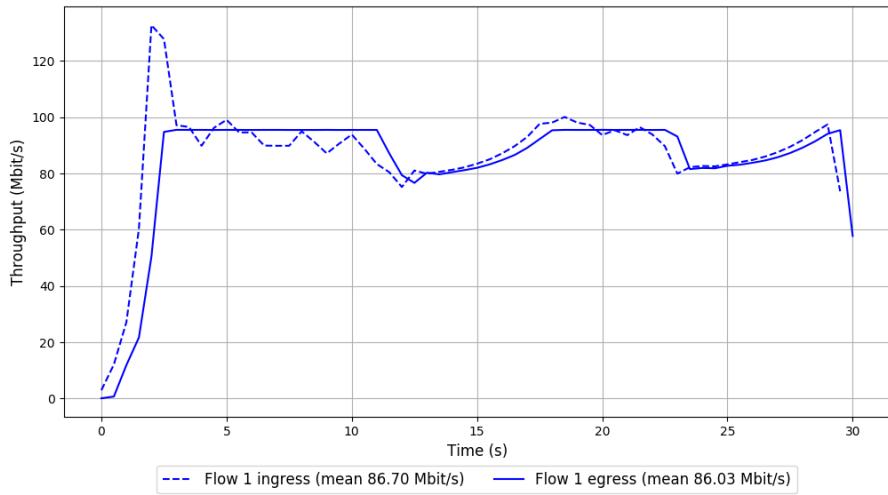


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-06-28 06:14:02
End at: 2019-06-28 06:14:33
Local clock offset: -8.194 ms
Remote clock offset: 46.579 ms

# Below is generated by plot.py at 2019-06-28 08:21:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.03 Mbit/s
95th percentile per-packet one-way delay: 457.159 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 86.03 Mbit/s
95th percentile per-packet one-way delay: 457.159 ms
Loss rate: 1.35%
```

Run 1: Report of PCC-Expr — Data Link

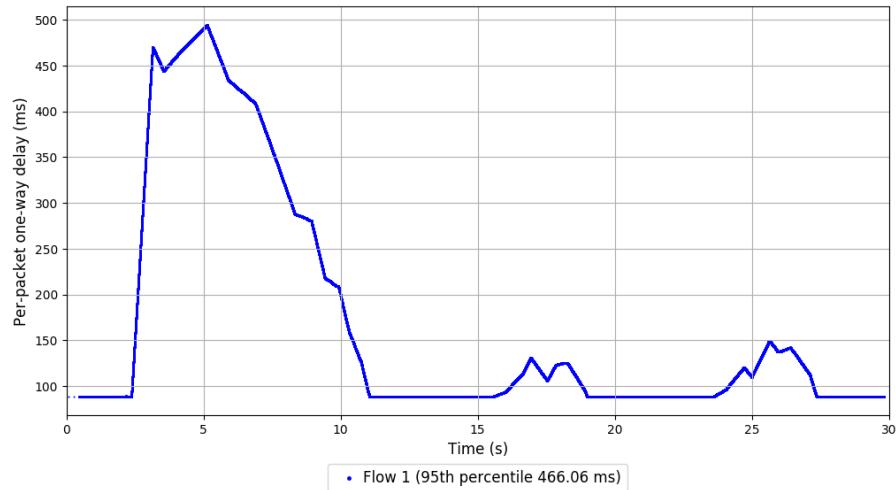
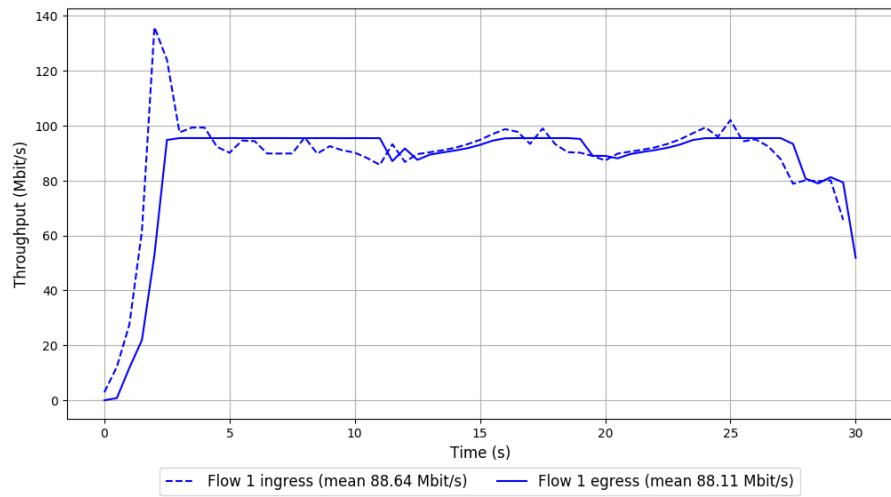


Run 2: Statistics of PCC-Expr

```
Start at: 2019-06-28 06:40:12
End at: 2019-06-28 06:40:42
Local clock offset: -6.343 ms
Remote clock offset: 64.936 ms

# Below is generated by plot.py at 2019-06-28 08:21:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.11 Mbit/s
95th percentile per-packet one-way delay: 466.060 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 88.11 Mbit/s
95th percentile per-packet one-way delay: 466.060 ms
Loss rate: 1.17%
```

Run 2: Report of PCC-Expr — Data Link

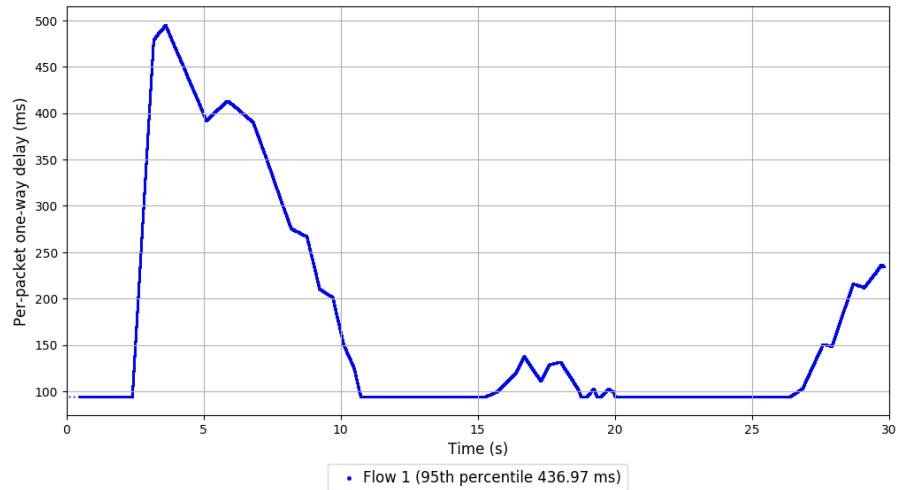
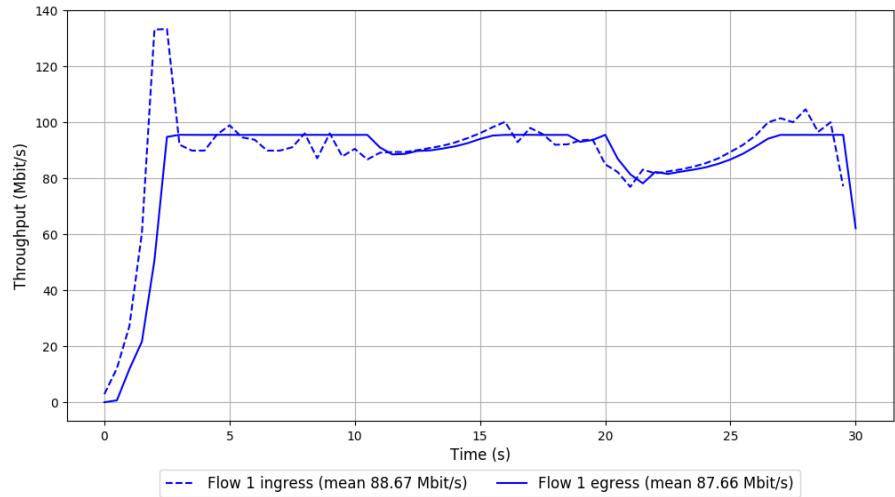


Run 3: Statistics of PCC-Expr

```
Start at: 2019-06-28 07:06:25
End at: 2019-06-28 07:06:55
Local clock offset: -7.685 ms
Remote clock offset: 71.788 ms

# Below is generated by plot.py at 2019-06-28 08:21:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.66 Mbit/s
95th percentile per-packet one-way delay: 436.967 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 87.66 Mbit/s
95th percentile per-packet one-way delay: 436.967 ms
Loss rate: 1.71%
```

Run 3: Report of PCC-Expr — Data Link

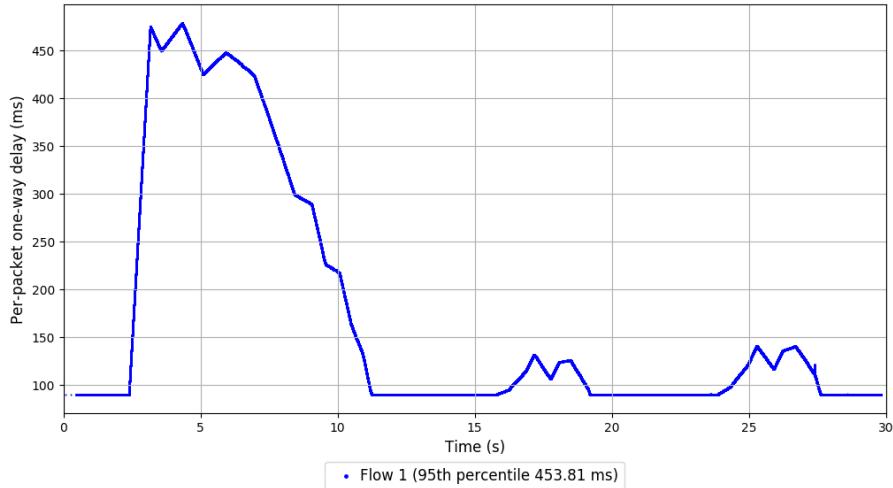
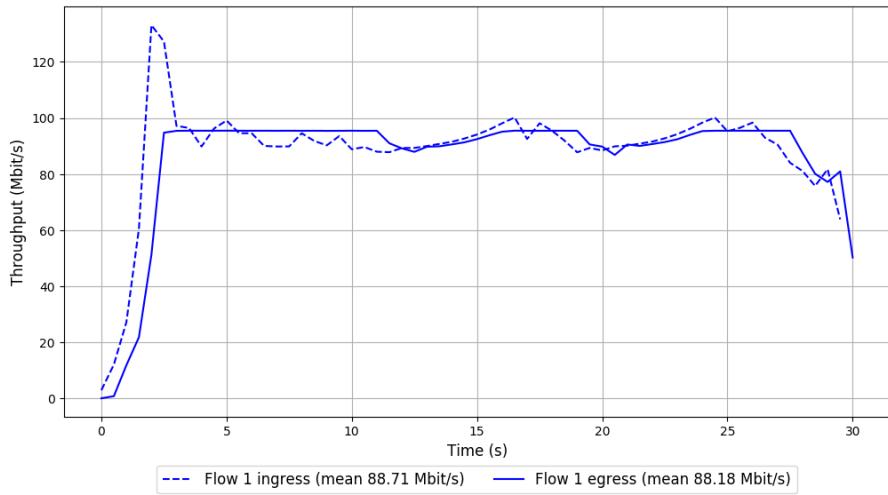


Run 4: Statistics of PCC-Expr

```
Start at: 2019-06-28 07:32:36
End at: 2019-06-28 07:33:06
Local clock offset: -7.079 ms
Remote clock offset: 90.241 ms

# Below is generated by plot.py at 2019-06-28 08:21:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.18 Mbit/s
95th percentile per-packet one-way delay: 453.814 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 88.18 Mbit/s
95th percentile per-packet one-way delay: 453.814 ms
Loss rate: 1.17%
```

Run 4: Report of PCC-Expr — Data Link

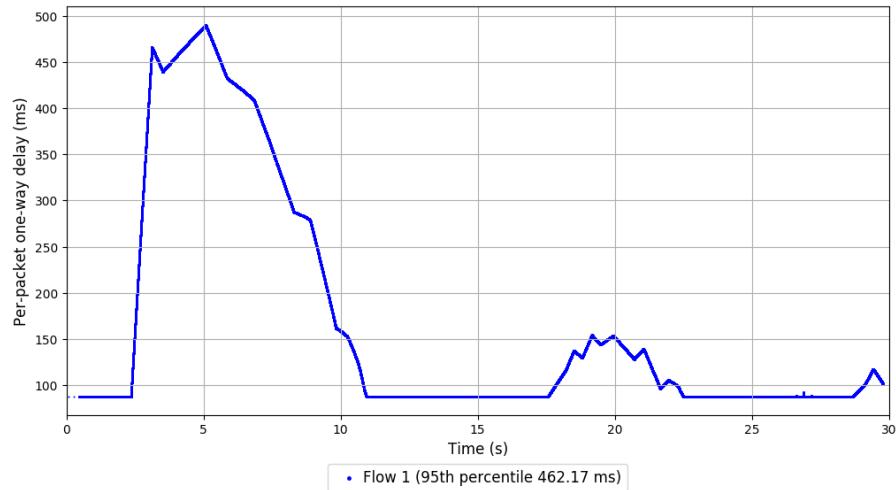
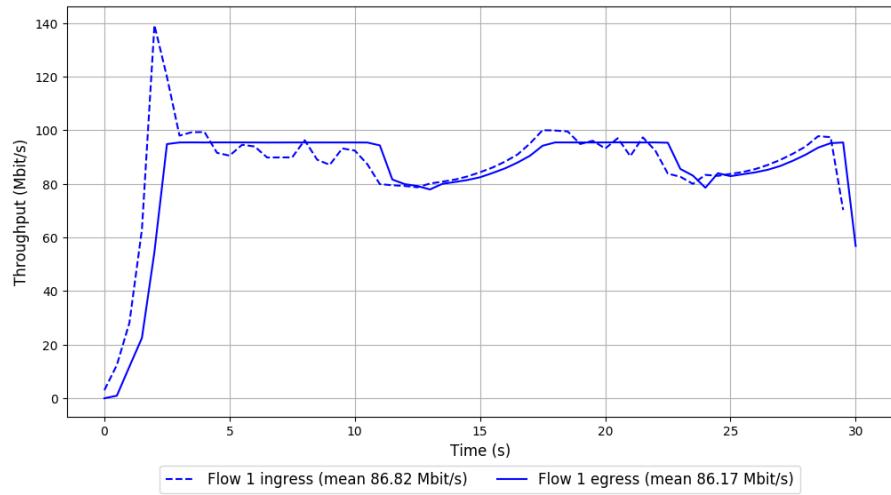


Run 5: Statistics of PCC-Expr

```
Start at: 2019-06-28 07:58:48
End at: 2019-06-28 07:59:18
Local clock offset: -7.168 ms
Remote clock offset: 104.572 ms

# Below is generated by plot.py at 2019-06-28 08:21:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.17 Mbit/s
95th percentile per-packet one-way delay: 462.168 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 86.17 Mbit/s
95th percentile per-packet one-way delay: 462.168 ms
Loss rate: 1.32%
```

Run 5: Report of PCC-Expr — Data Link

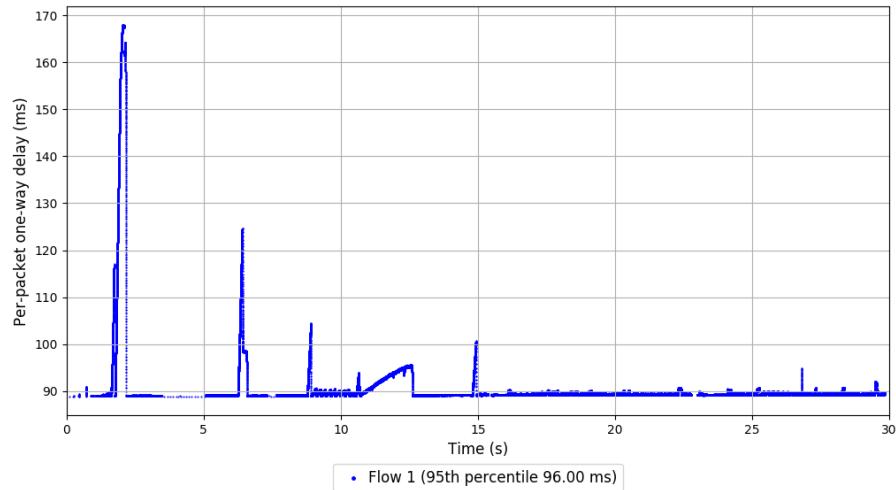
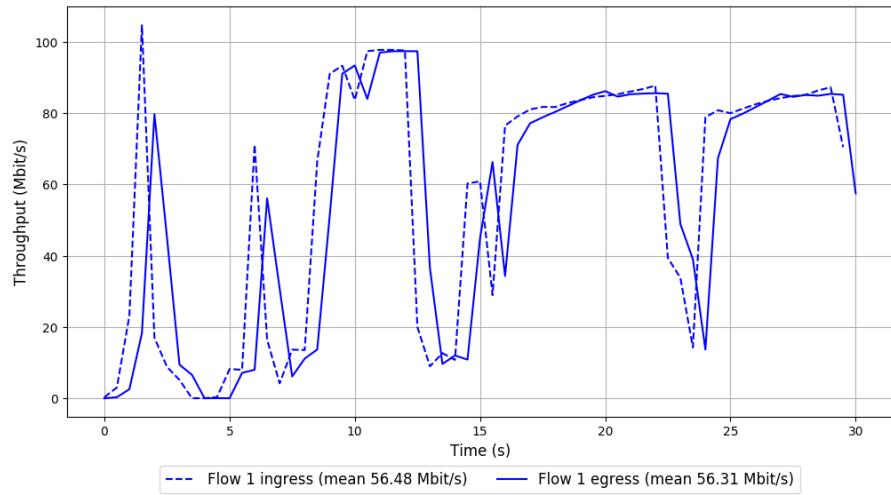


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-06-28 06:15:17
End at: 2019-06-28 06:15:47
Local clock offset: -9.236 ms
Remote clock offset: 51.056 ms

# Below is generated by plot.py at 2019-06-28 08:21:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.31 Mbit/s
95th percentile per-packet one-way delay: 96.003 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 56.31 Mbit/s
95th percentile per-packet one-way delay: 96.003 ms
Loss rate: 0.88%
```

Run 1: Report of QUIC Cubic — Data Link

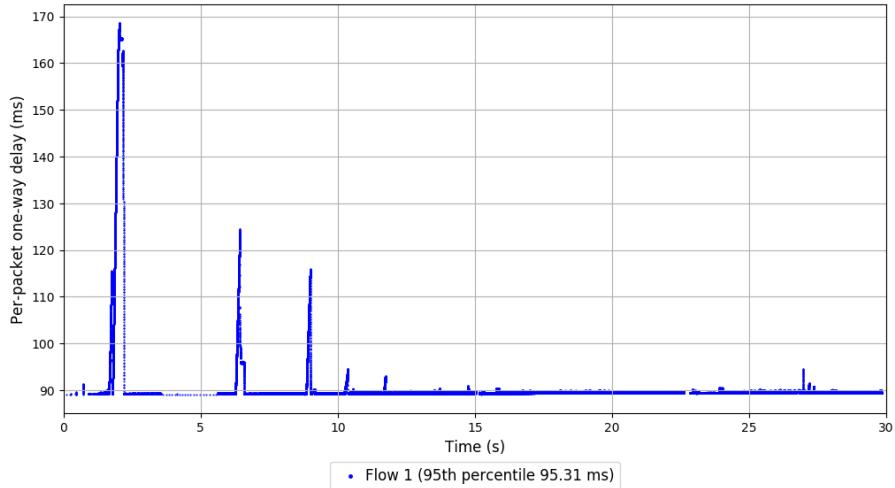
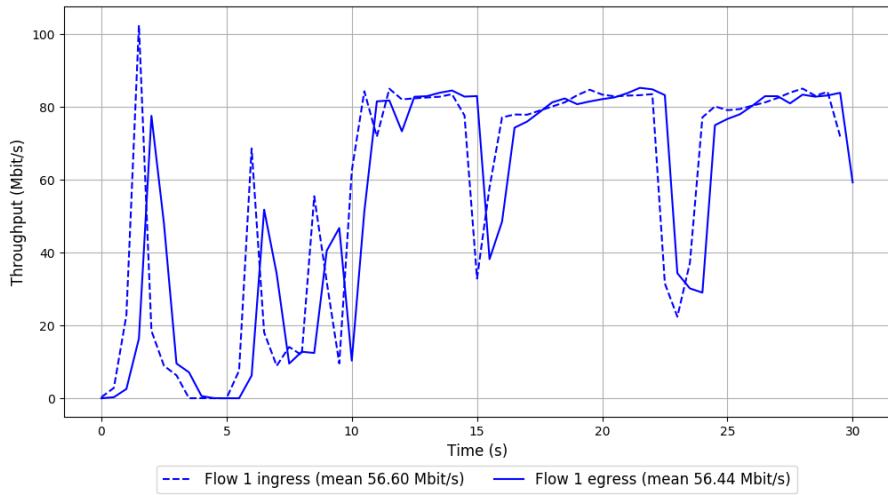


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-06-28 06:41:27
End at: 2019-06-28 06:41:57
Local clock offset: -7.33 ms
Remote clock offset: 64.654 ms

# Below is generated by plot.py at 2019-06-28 08:21:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.44 Mbit/s
95th percentile per-packet one-way delay: 95.311 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 56.44 Mbit/s
95th percentile per-packet one-way delay: 95.311 ms
Loss rate: 0.87%
```

Run 2: Report of QUIC Cubic — Data Link

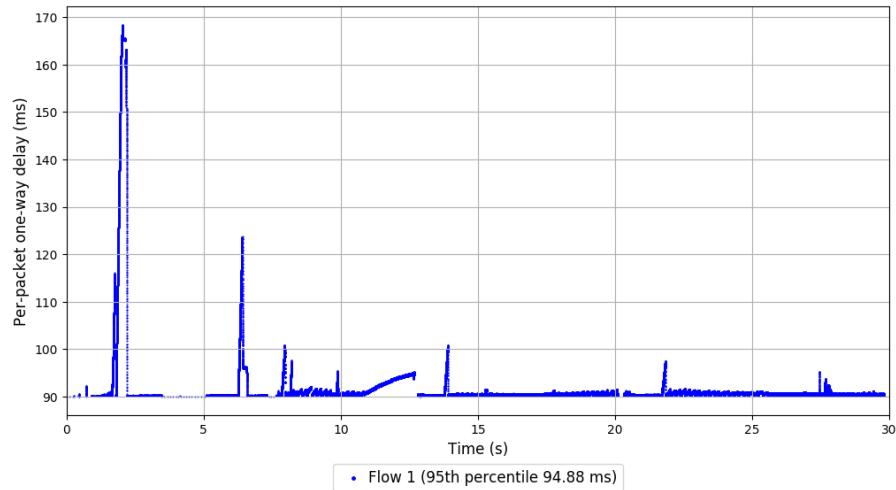
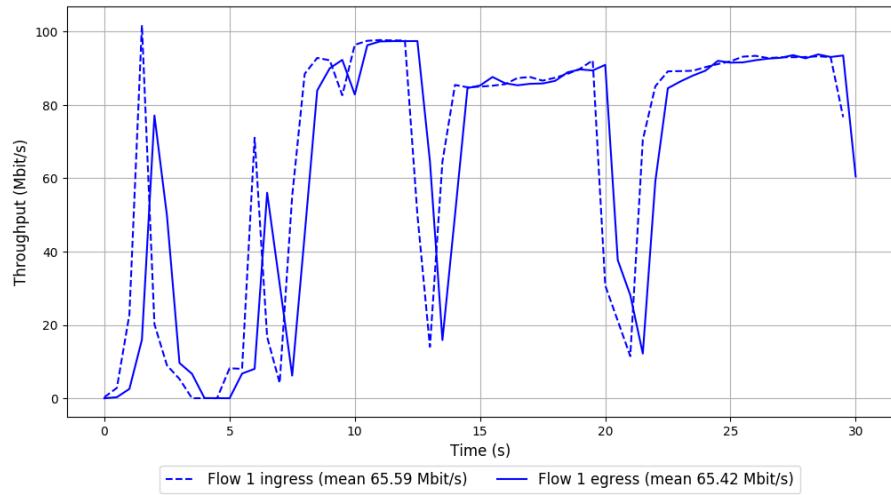


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-06-28 07:07:40
End at: 2019-06-28 07:08:10
Local clock offset: -6.912 ms
Remote clock offset: 77.698 ms

# Below is generated by plot.py at 2019-06-28 08:21:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.42 Mbit/s
95th percentile per-packet one-way delay: 94.882 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 65.42 Mbit/s
95th percentile per-packet one-way delay: 94.882 ms
Loss rate: 0.83%
```

Run 3: Report of QUIC Cubic — Data Link

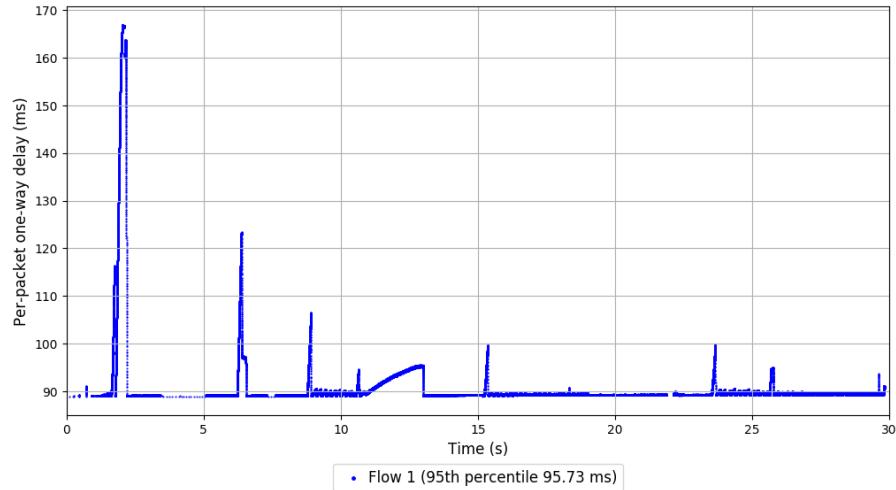
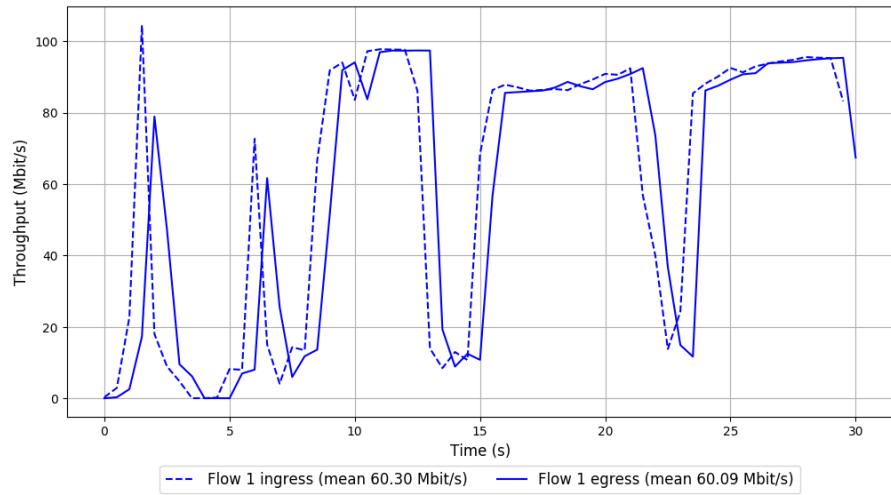


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-06-28 07:33:51
End at: 2019-06-28 07:34:21
Local clock offset: -6.486 ms
Remote clock offset: 91.964 ms

# Below is generated by plot.py at 2019-06-28 08:21:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.09 Mbit/s
95th percentile per-packet one-way delay: 95.733 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 60.09 Mbit/s
95th percentile per-packet one-way delay: 95.733 ms
Loss rate: 0.92%
```

Run 4: Report of QUIC Cubic — Data Link

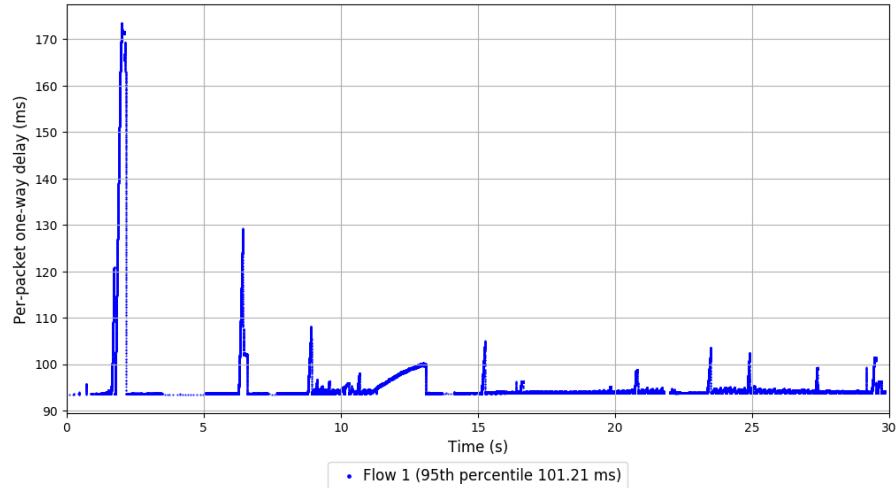
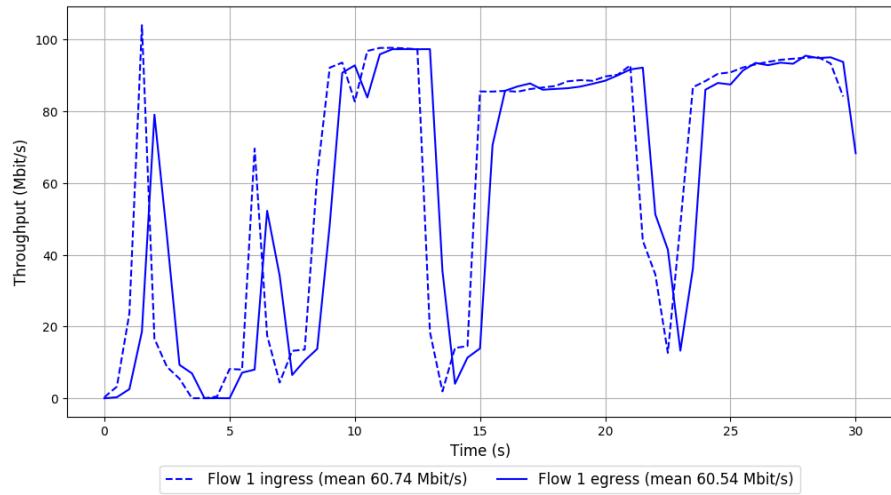


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-06-28 08:00:02
End at: 2019-06-28 08:00:32
Local clock offset: -7.243 ms
Remote clock offset: 100.041 ms

# Below is generated by plot.py at 2019-06-28 08:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.54 Mbit/s
95th percentile per-packet one-way delay: 101.207 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 60.54 Mbit/s
95th percentile per-packet one-way delay: 101.207 ms
Loss rate: 0.91%
```

Run 5: Report of QUIC Cubic — Data Link

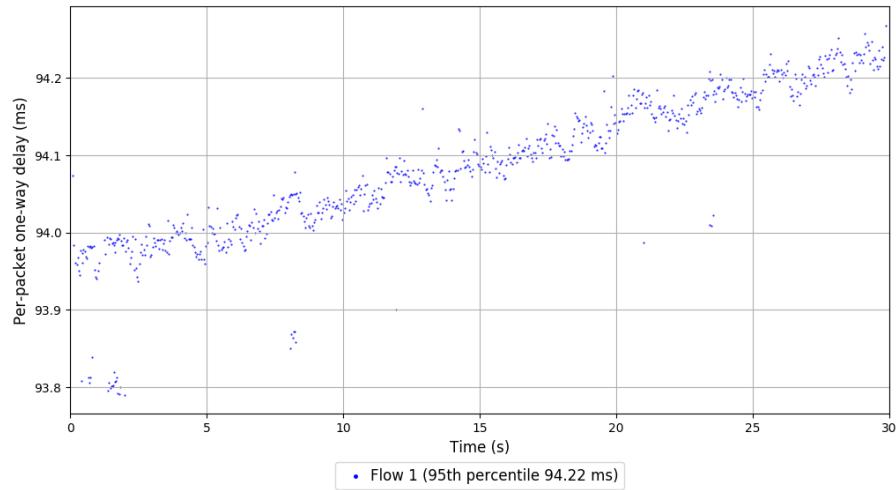
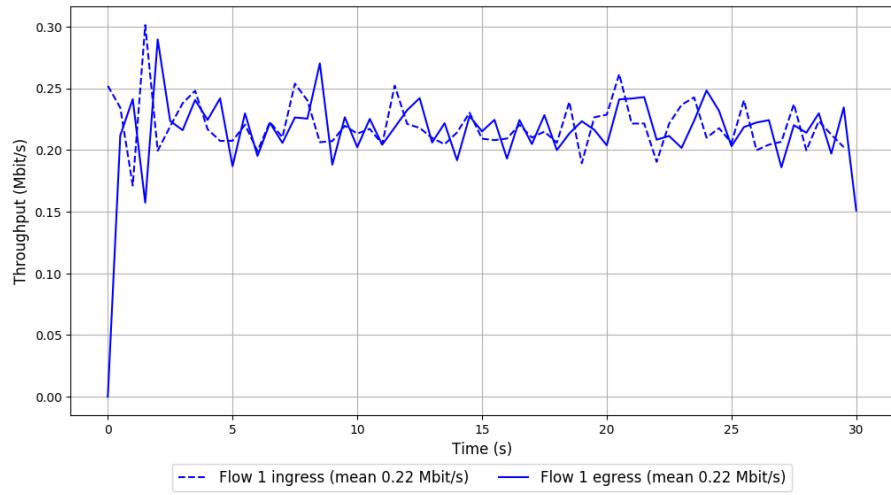


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-06-28 06:00:47
End at: 2019-06-28 06:01:17
Local clock offset: -7.376 ms
Remote clock offset: 40.144 ms

# Below is generated by plot.py at 2019-06-28 08:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.221 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.221 ms
Loss rate: 0.64%
```

Run 1: Report of SCReAM — Data Link

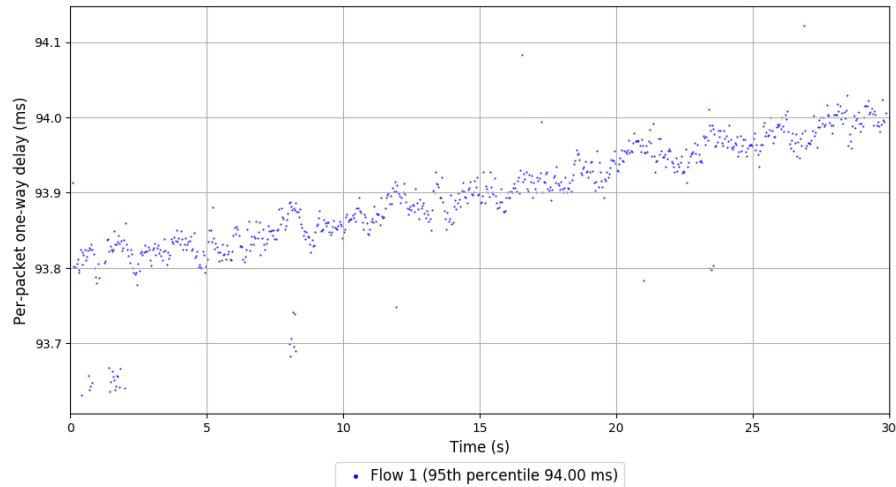
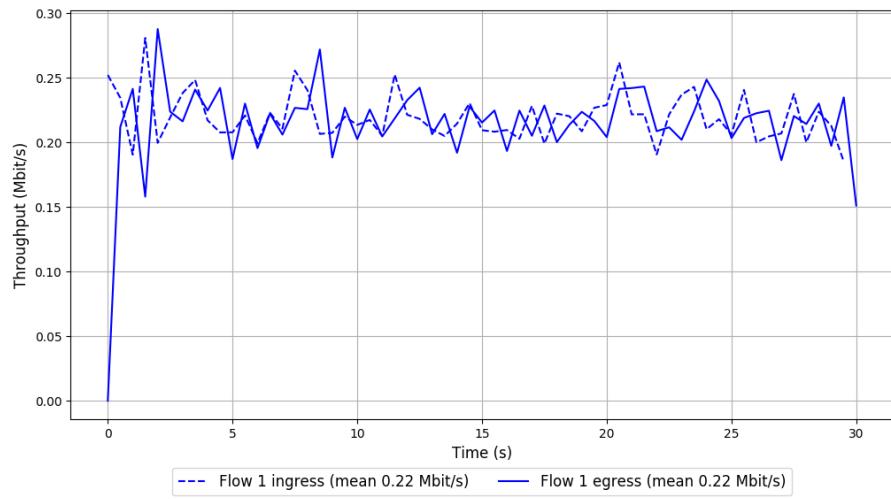


Run 2: Statistics of SCReAM

```
Start at: 2019-06-28 06:27:09
End at: 2019-06-28 06:27:39
Local clock offset: -7.148 ms
Remote clock offset: 53.211 ms

# Below is generated by plot.py at 2019-06-28 08:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.999 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.999 ms
Loss rate: 0.51%
```

Run 2: Report of SCReAM — Data Link

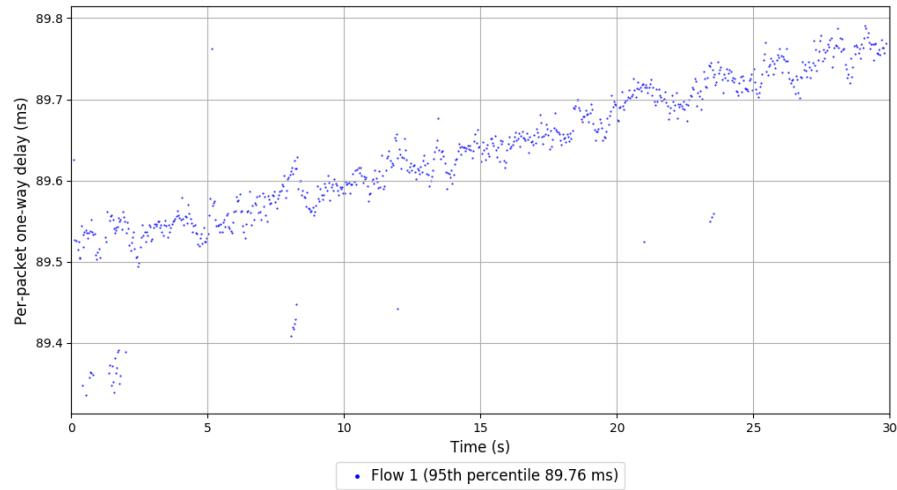
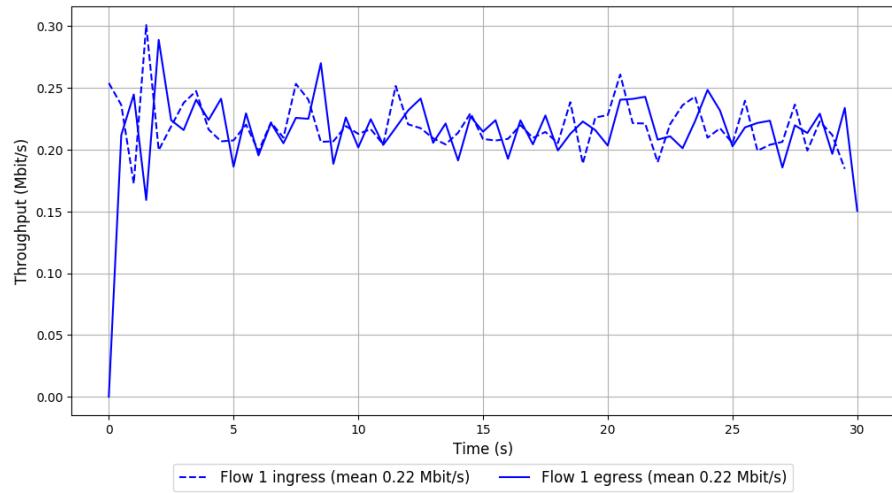


Run 3: Statistics of SCReAM

```
Start at: 2019-06-28 06:53:20
End at: 2019-06-28 06:53:50
Local clock offset: -6.471 ms
Remote clock offset: 71.304 ms

# Below is generated by plot.py at 2019-06-28 08:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.762 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.762 ms
Loss rate: 0.51%
```

Run 3: Report of SCReAM — Data Link

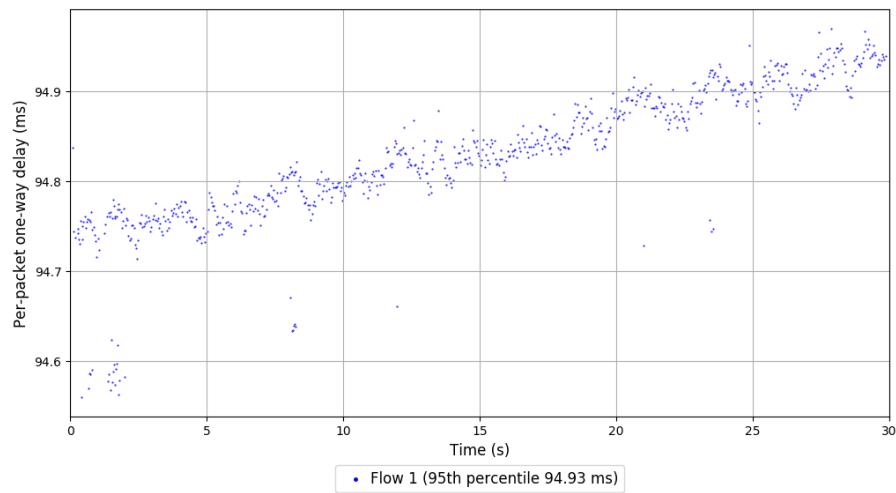
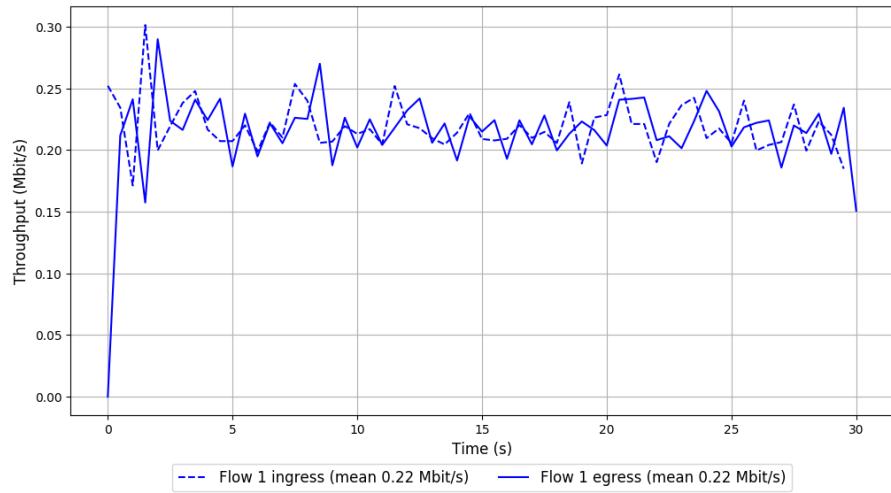


Run 4: Statistics of SCReAM

```
Start at: 2019-06-28 07:19:32
End at: 2019-06-28 07:20:02
Local clock offset: -7.473 ms
Remote clock offset: 78.473 ms

# Below is generated by plot.py at 2019-06-28 08:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.934 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.934 ms
Loss rate: 0.51%
```

Run 4: Report of SCReAM — Data Link

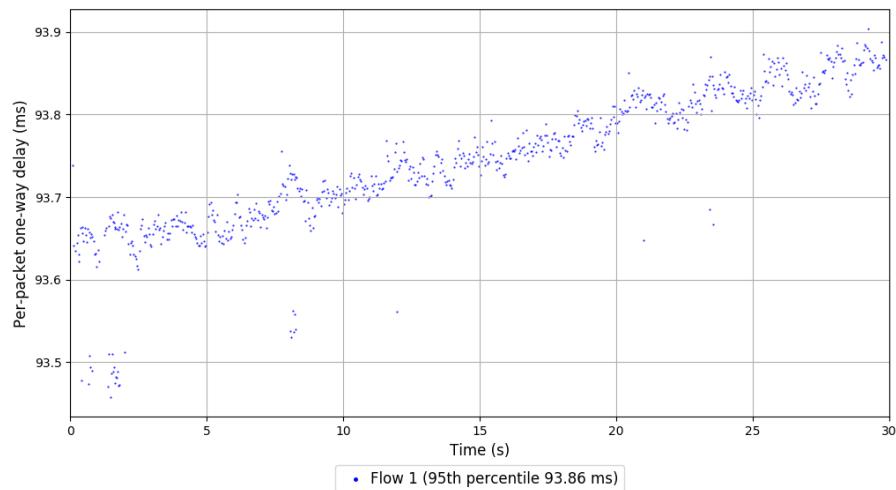
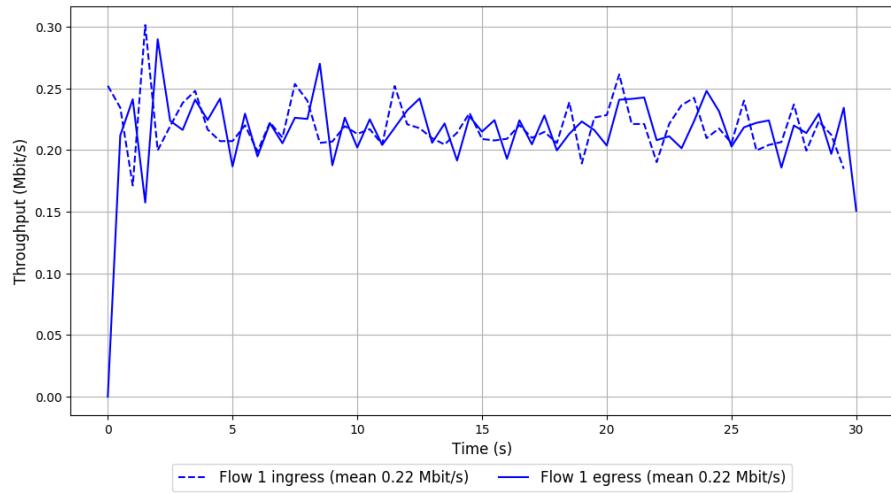


Run 5: Statistics of SCReAM

```
Start at: 2019-06-28 07:45:44
End at: 2019-06-28 07:46:14
Local clock offset: -6.907 ms
Remote clock offset: 92.838 ms

# Below is generated by plot.py at 2019-06-28 08:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.864 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.864 ms
Loss rate: 0.51%
```

Run 5: Report of SCReAM — Data Link

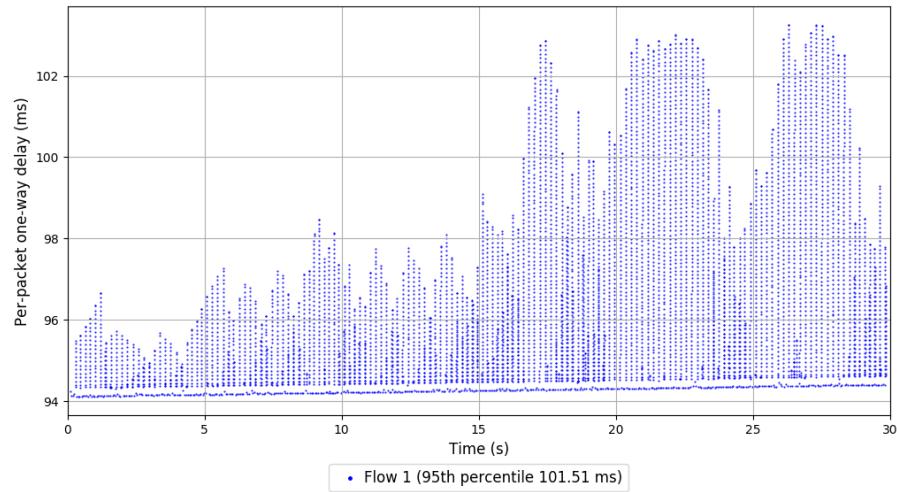
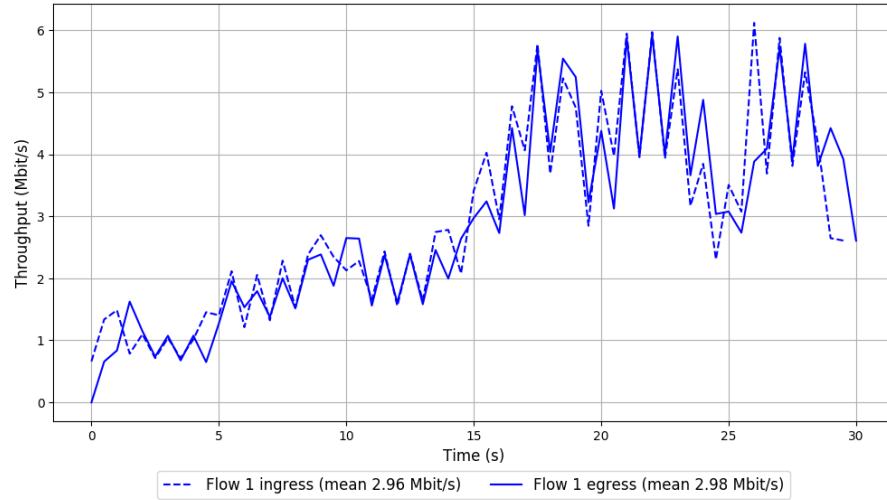


Run 1: Statistics of Sprout

```
Start at: 2019-06-28 06:01:54
End at: 2019-06-28 06:02:24
Local clock offset: -7.696 ms
Remote clock offset: 40.465 ms

# Below is generated by plot.py at 2019-06-28 08:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.98 Mbit/s
95th percentile per-packet one-way delay: 101.507 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.98 Mbit/s
95th percentile per-packet one-way delay: 101.507 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

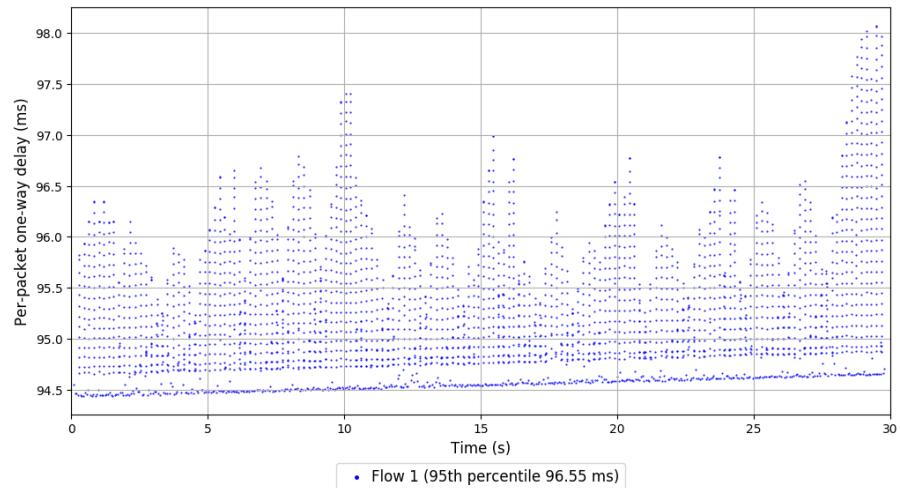
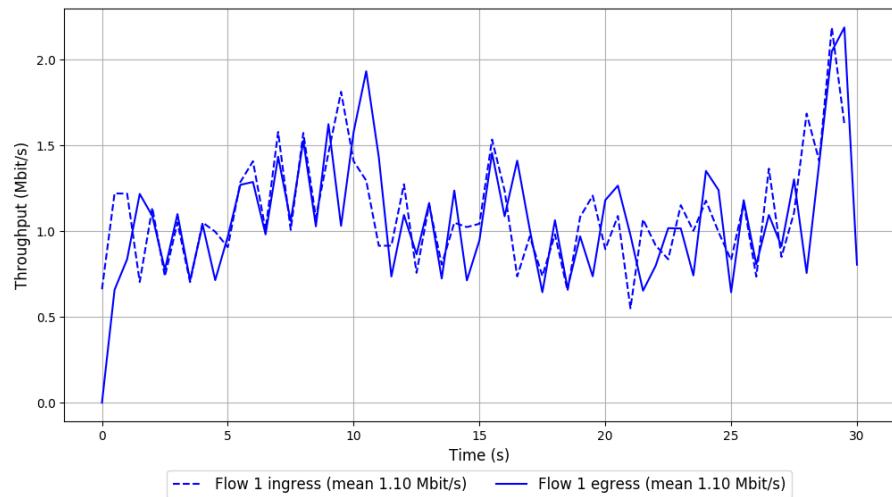


Run 2: Statistics of Sprout

```
Start at: 2019-06-28 06:28:17
End at: 2019-06-28 06:28:47
Local clock offset: -6.949 ms
Remote clock offset: 52.833 ms

# Below is generated by plot.py at 2019-06-28 08:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 96.546 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 96.546 ms
Loss rate: 1.25%
```

Run 2: Report of Sprout — Data Link

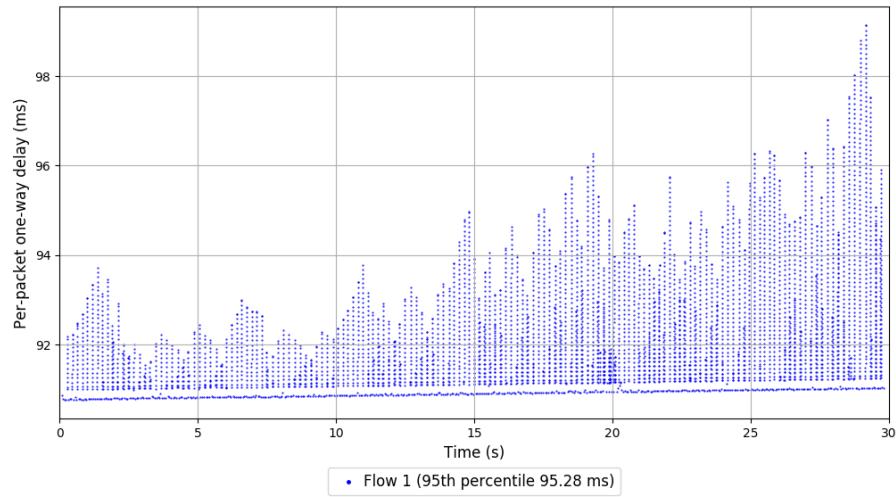
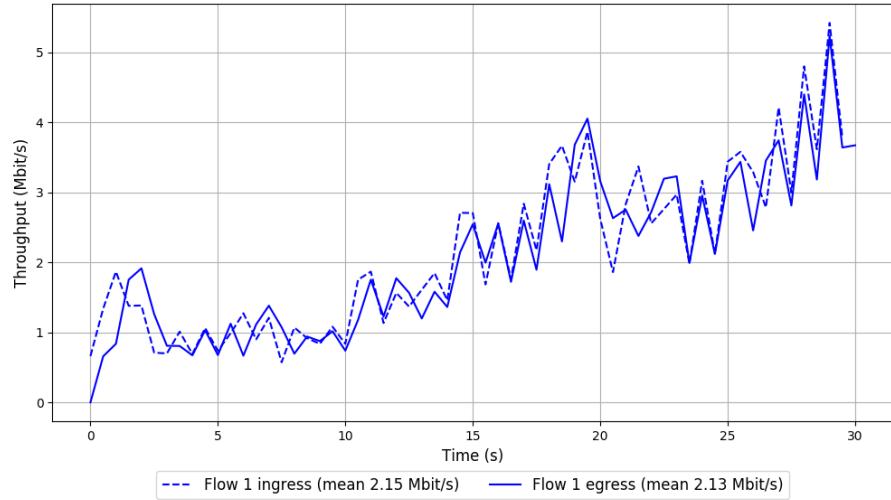


Run 3: Statistics of Sprout

```
Start at: 2019-06-28 06:54:27
End at: 2019-06-28 06:54:57
Local clock offset: -6.488 ms
Remote clock offset: 69.839 ms

# Below is generated by plot.py at 2019-06-28 08:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 95.285 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 95.285 ms
Loss rate: 1.47%
```

Run 3: Report of Sprout — Data Link

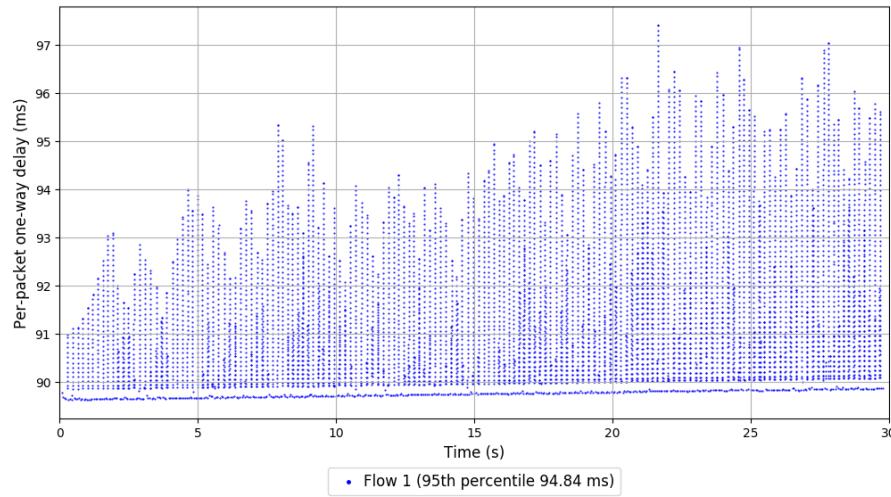
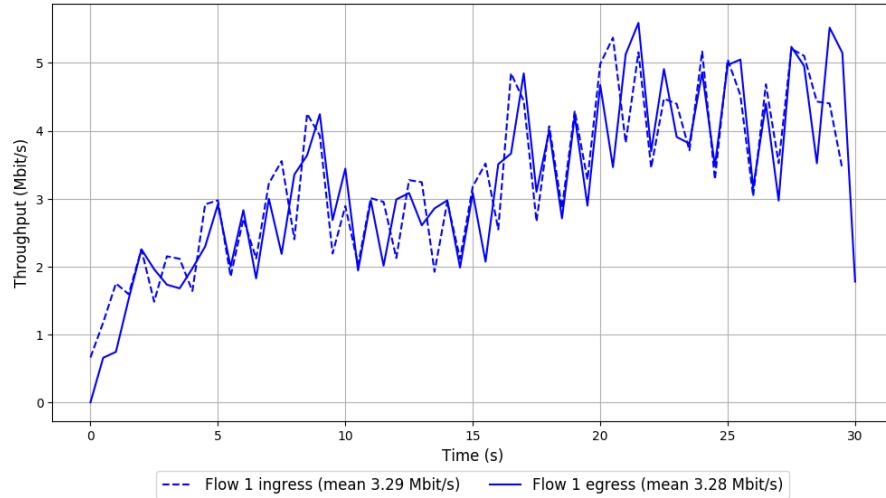


Run 4: Statistics of Sprout

```
Start at: 2019-06-28 07:20:40
End at: 2019-06-28 07:21:10
Local clock offset: -7.397 ms
Remote clock offset: 83.371 ms

# Below is generated by plot.py at 2019-06-28 08:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 94.839 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 94.839 ms
Loss rate: 0.84%
```

Run 4: Report of Sprout — Data Link

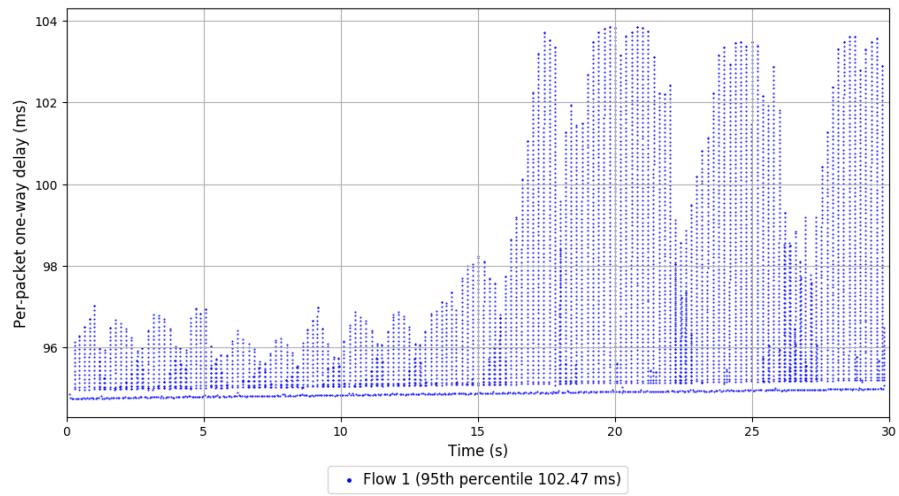
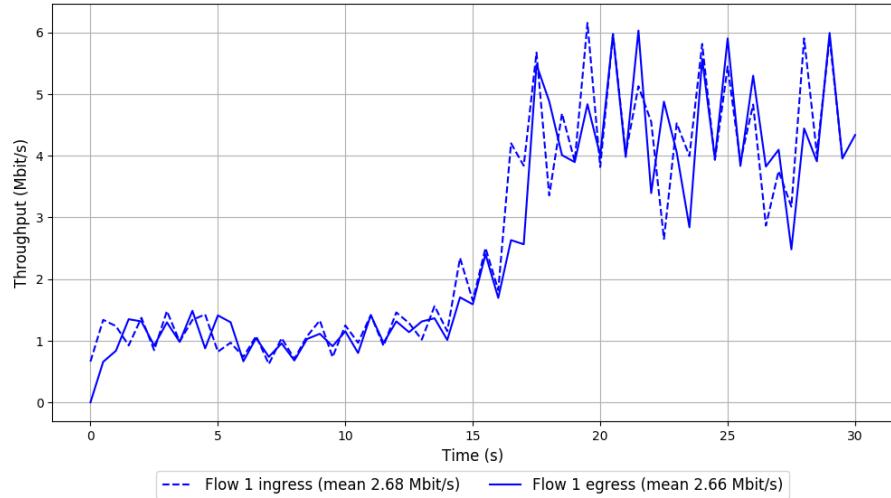


Run 5: Statistics of Sprout

```
Start at: 2019-06-28 07:46:51
End at: 2019-06-28 07:47:21
Local clock offset: -6.969 ms
Remote clock offset: 92.078 ms

# Below is generated by plot.py at 2019-06-28 08:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 102.473 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 102.473 ms
Loss rate: 1.01%
```

Run 5: Report of Sprout — Data Link

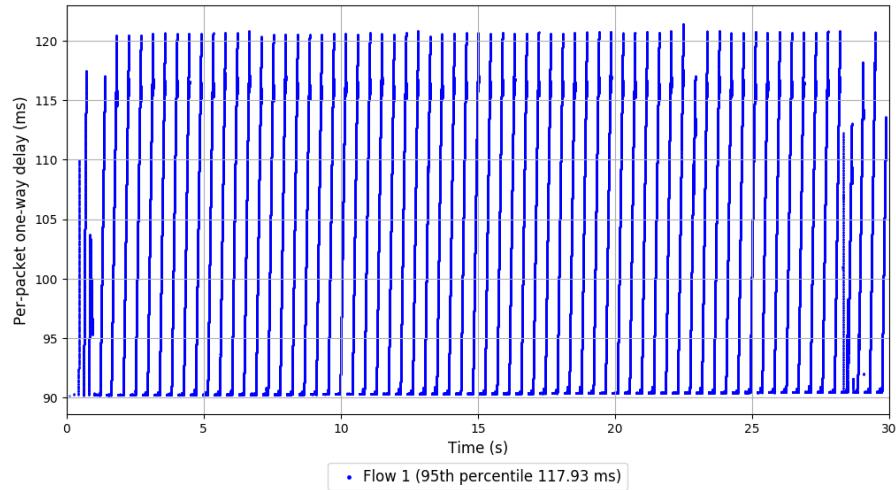
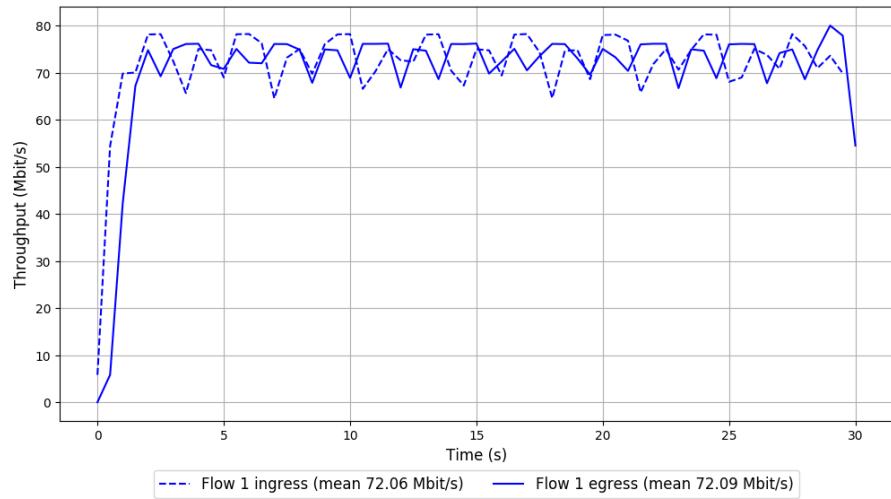


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-06-28 06:11:35
End at: 2019-06-28 06:12:05
Local clock offset: -8.074 ms
Remote clock offset: 49.249 ms

# Below is generated by plot.py at 2019-06-28 08:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.09 Mbit/s
95th percentile per-packet one-way delay: 117.931 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 72.09 Mbit/s
95th percentile per-packet one-way delay: 117.931 ms
Loss rate: 0.54%
```

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

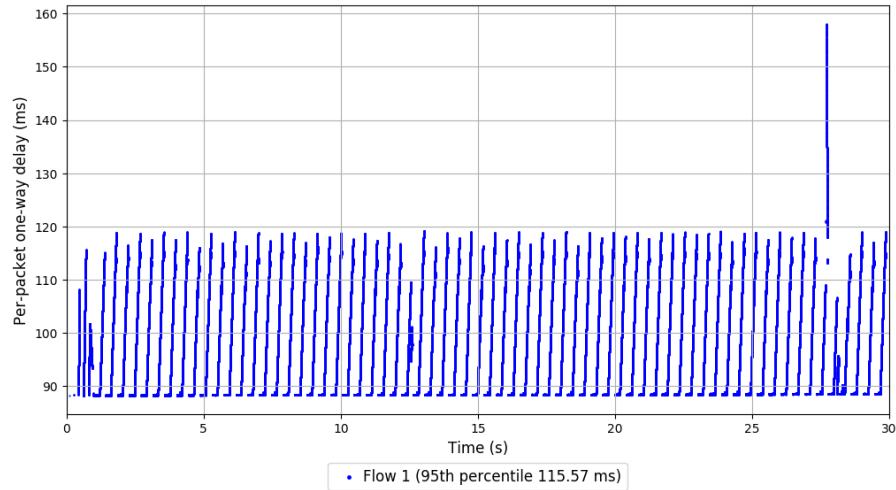
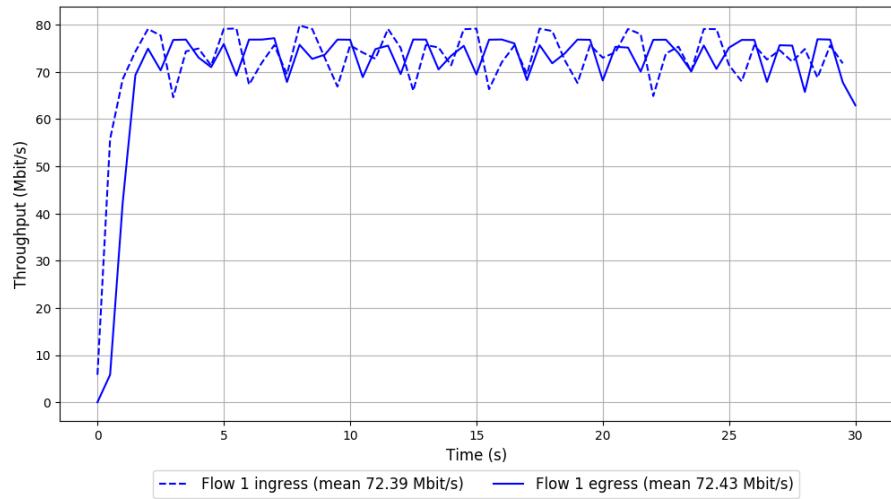


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-06-28 06:37:46
End at: 2019-06-28 06:38:16
Local clock offset: -7.207 ms
Remote clock offset: 63.621 ms

# Below is generated by plot.py at 2019-06-28 08:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.43 Mbit/s
95th percentile per-packet one-way delay: 115.572 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 72.43 Mbit/s
95th percentile per-packet one-way delay: 115.572 ms
Loss rate: 0.58%
```

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

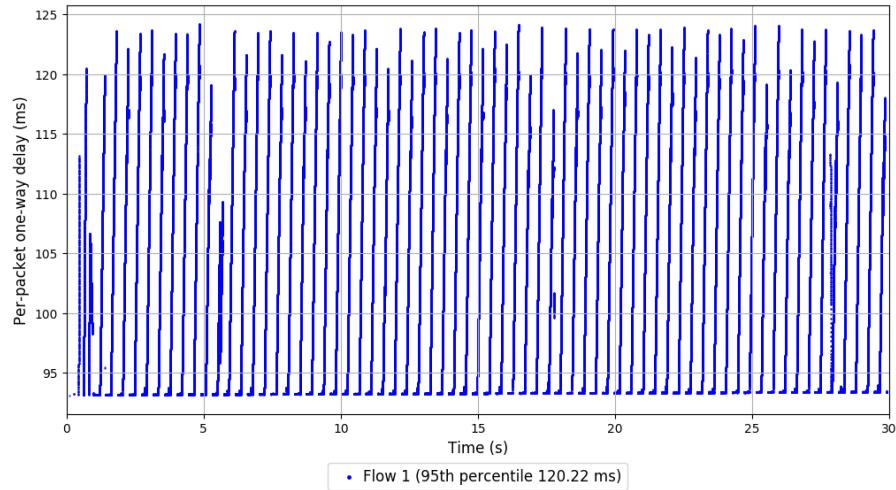
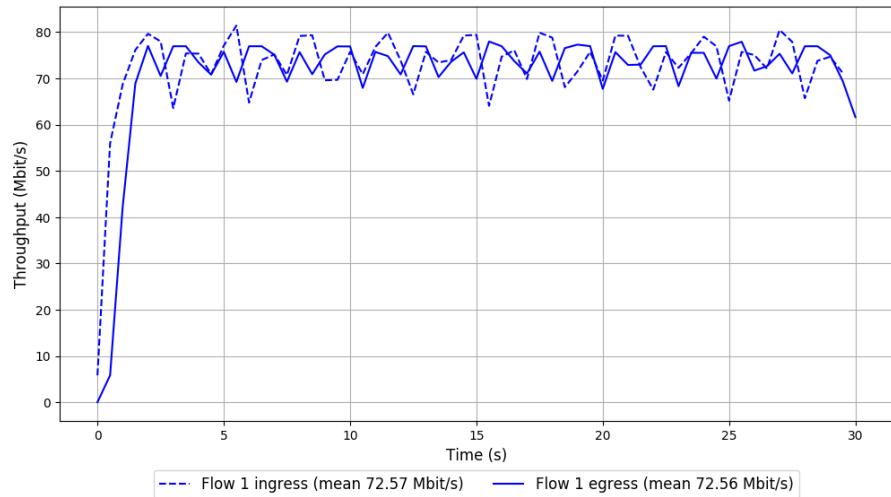


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-06-28 07:03:59
End at: 2019-06-28 07:04:29
Local clock offset: -7.436 ms
Remote clock offset: 71.602 ms

# Below is generated by plot.py at 2019-06-28 08:23:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.56 Mbit/s
95th percentile per-packet one-way delay: 120.225 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 72.56 Mbit/s
95th percentile per-packet one-way delay: 120.225 ms
Loss rate: 0.59%
```

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

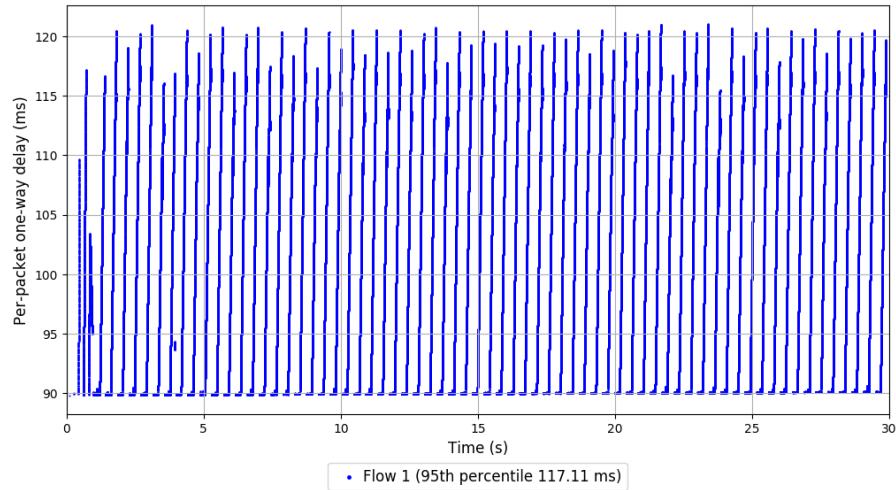
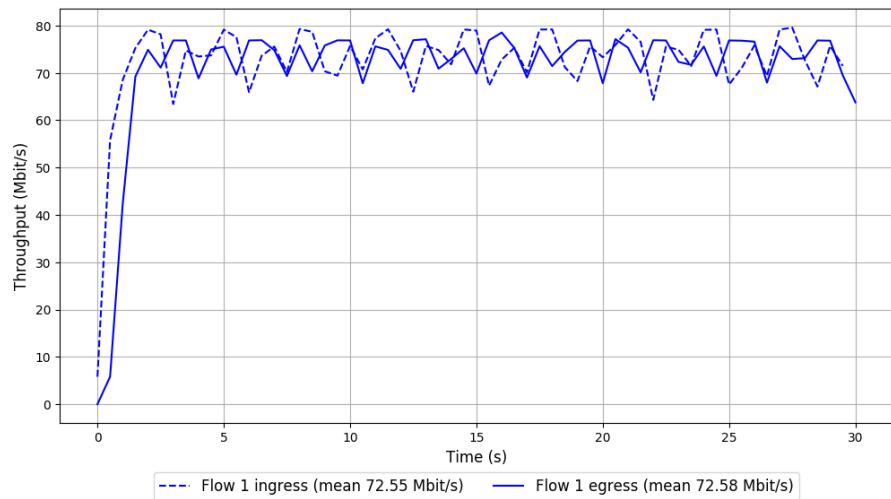


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-06-28 07:30:10
End at: 2019-06-28 07:30:40
Local clock offset: -6.379 ms
Remote clock offset: 88.825 ms

# Below is generated by plot.py at 2019-06-28 08:23:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.58 Mbit/s
95th percentile per-packet one-way delay: 117.111 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 72.58 Mbit/s
95th percentile per-packet one-way delay: 117.111 ms
Loss rate: 0.53%
```

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

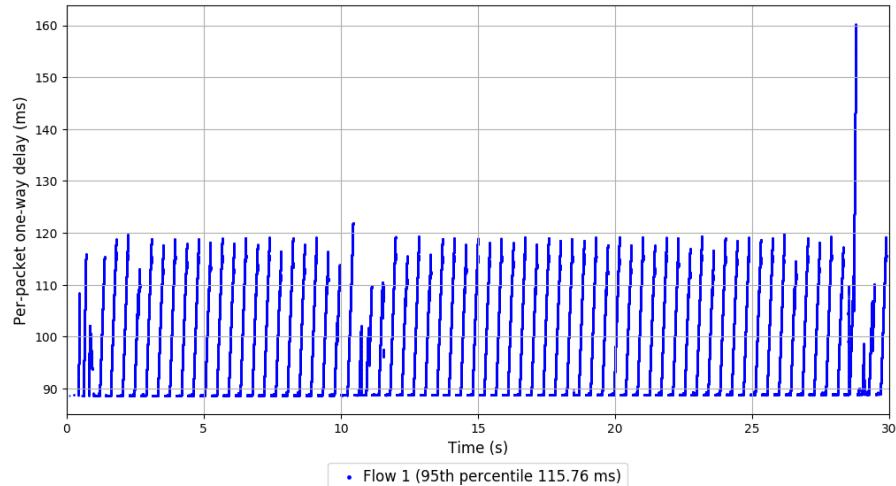
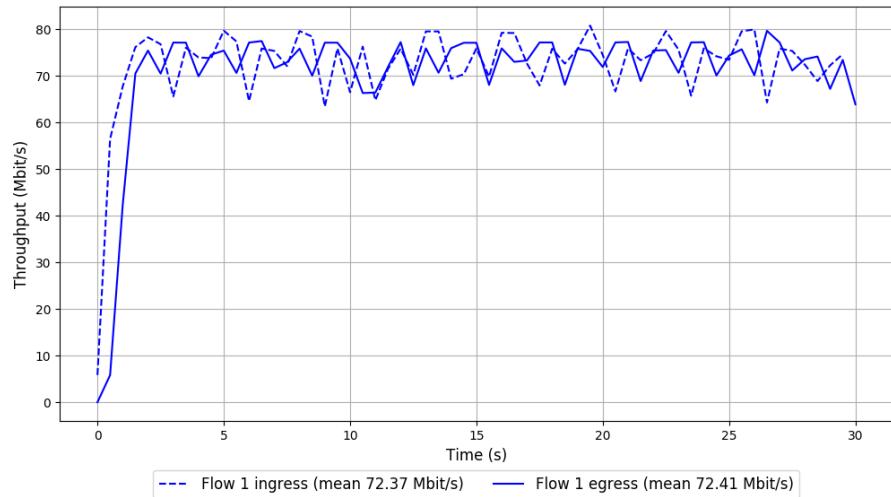


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-06-28 07:56:22
End at: 2019-06-28 07:56:52
Local clock offset: -7.127 ms
Remote clock offset: 102.505 ms

# Below is generated by plot.py at 2019-06-28 08:23:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.41 Mbit/s
95th percentile per-packet one-way delay: 115.764 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 72.41 Mbit/s
95th percentile per-packet one-way delay: 115.764 ms
Loss rate: 0.57%
```

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

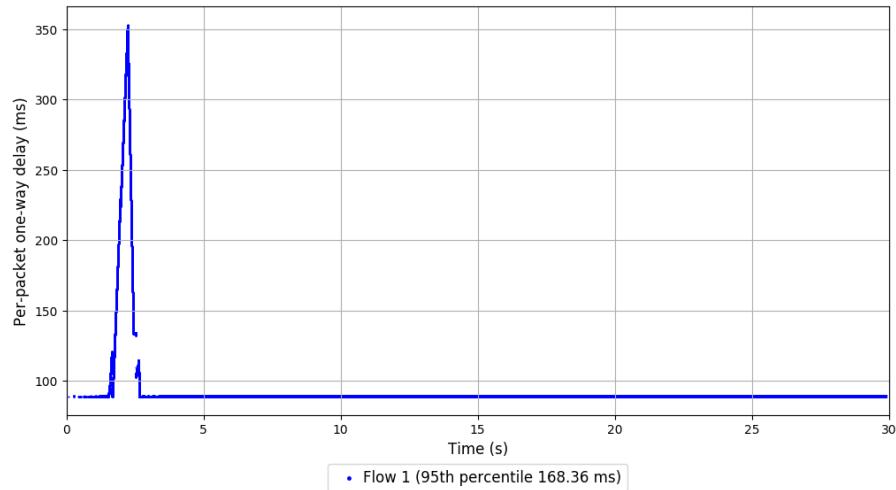
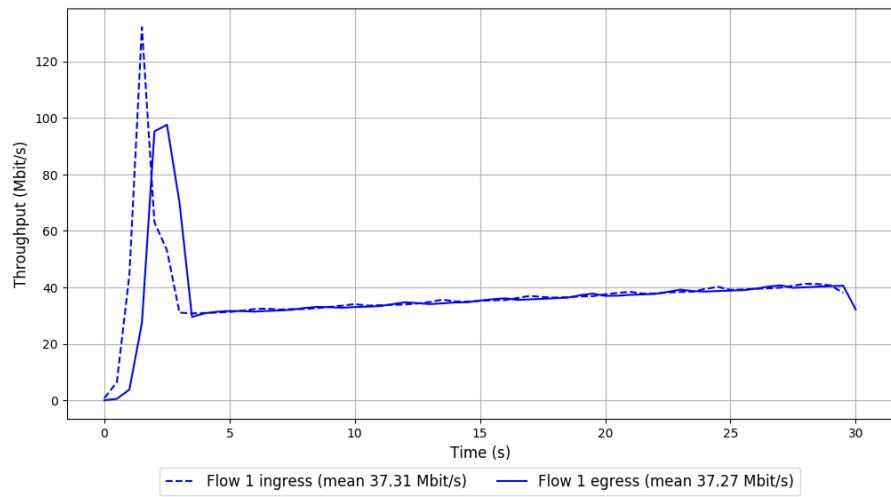


Run 1: Statistics of TCP Vegas

```
Start at: 2019-06-28 06:23:40
End at: 2019-06-28 06:24:10
Local clock offset: -8.118 ms
Remote clock offset: 55.652 ms

# Below is generated by plot.py at 2019-06-28 08:23:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.27 Mbit/s
95th percentile per-packet one-way delay: 168.359 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 37.27 Mbit/s
95th percentile per-packet one-way delay: 168.359 ms
Loss rate: 0.67%
```

Run 1: Report of TCP Vegas — Data Link

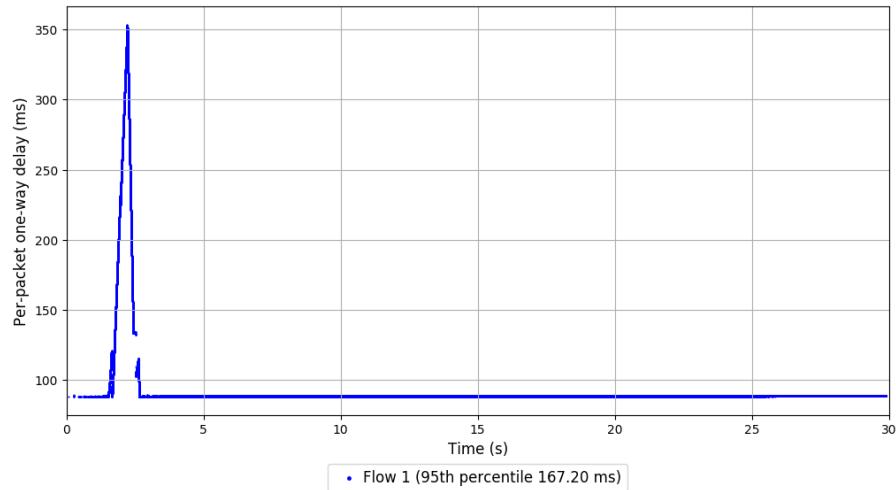
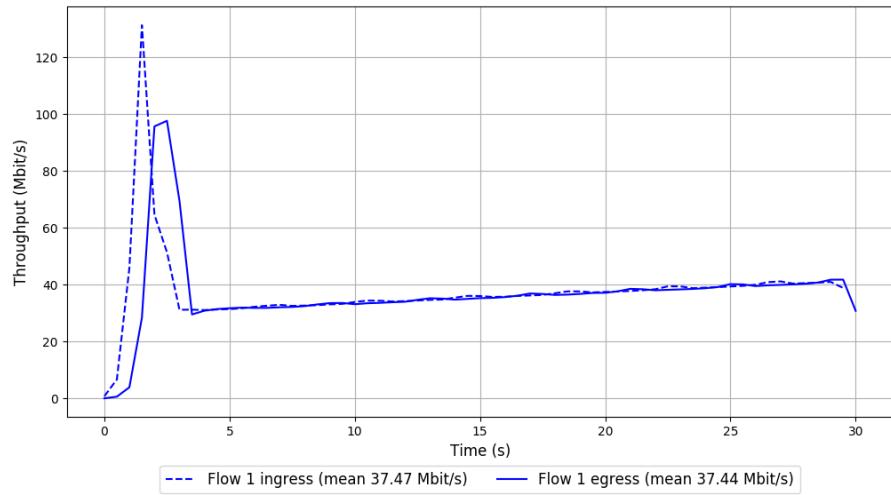


Run 2: Statistics of TCP Vegas

```
Start at: 2019-06-28 06:49:50
End at: 2019-06-28 06:50:20
Local clock offset: -6.379 ms
Remote clock offset: 70.04 ms

# Below is generated by plot.py at 2019-06-28 08:23:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.44 Mbit/s
95th percentile per-packet one-way delay: 167.204 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 37.44 Mbit/s
95th percentile per-packet one-way delay: 167.204 ms
Loss rate: 0.67%
```

Run 2: Report of TCP Vegas — Data Link

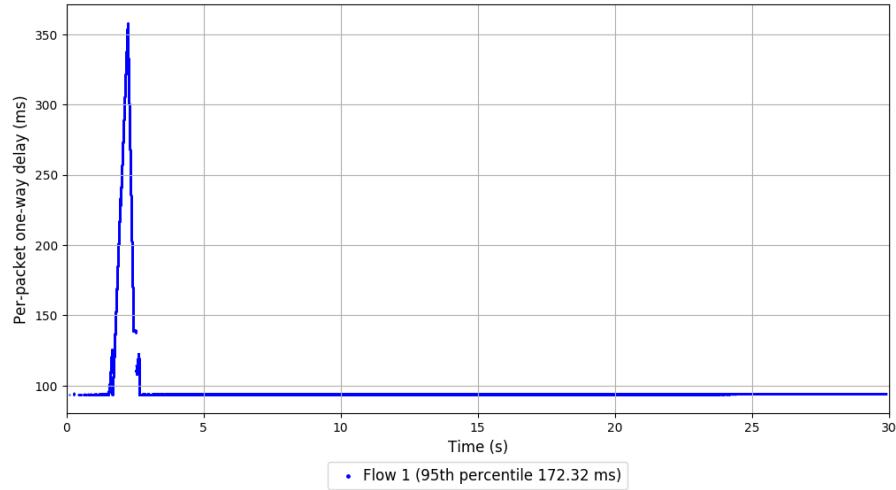
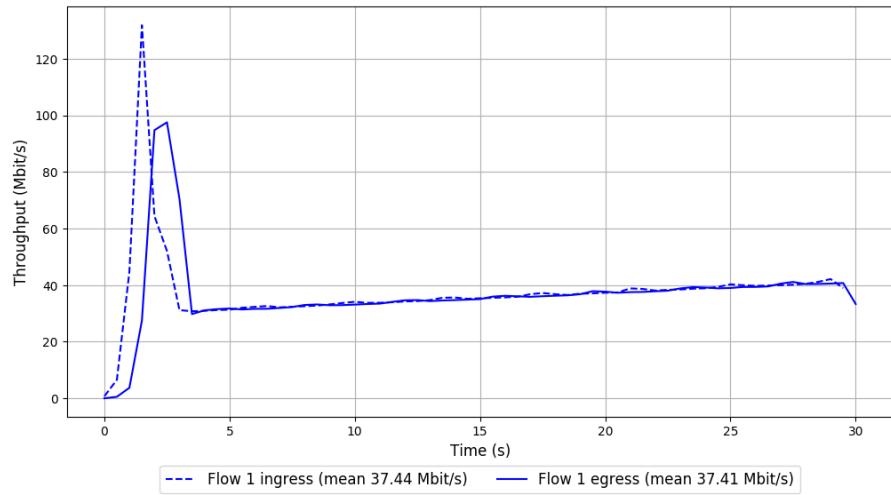


Run 3: Statistics of TCP Vegas

```
Start at: 2019-06-28 07:16:03
End at: 2019-06-28 07:16:33
Local clock offset: -6.949 ms
Remote clock offset: 77.755 ms

# Below is generated by plot.py at 2019-06-28 08:23:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.41 Mbit/s
95th percentile per-packet one-way delay: 172.321 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 37.41 Mbit/s
95th percentile per-packet one-way delay: 172.321 ms
Loss rate: 0.67%
```

Run 3: Report of TCP Vegas — Data Link

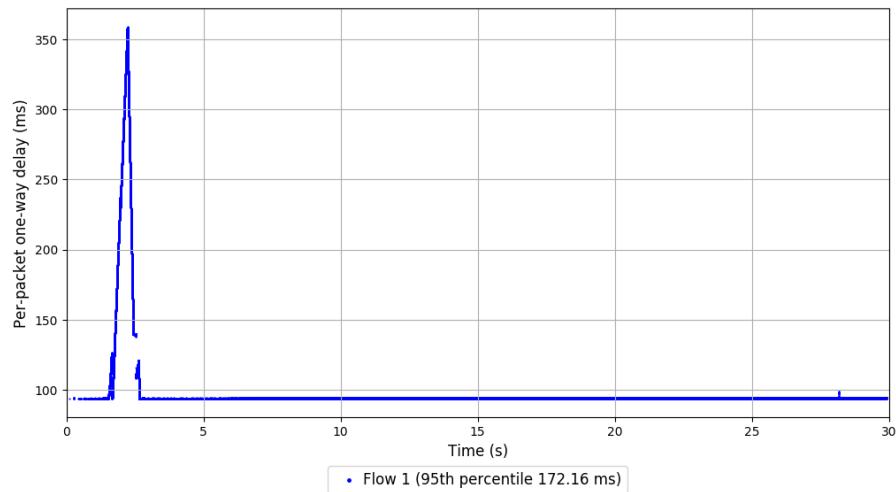
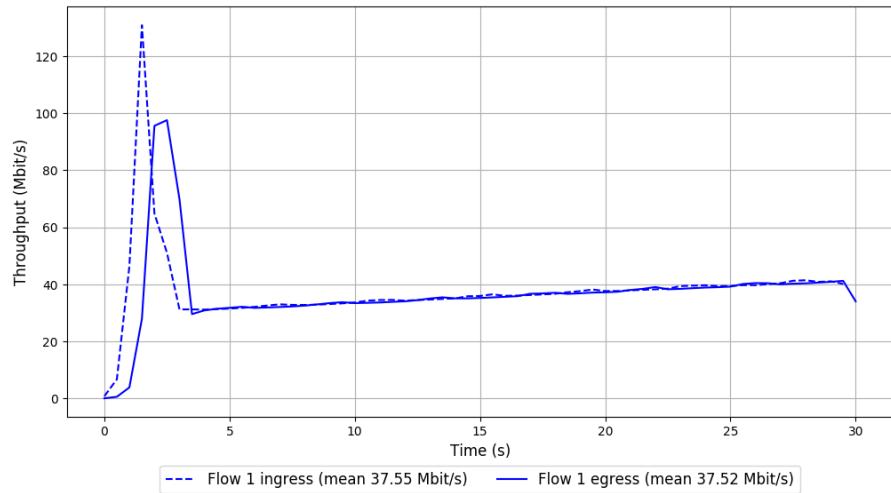


Run 4: Statistics of TCP Vegas

```
Start at: 2019-06-28 07:42:15
End at: 2019-06-28 07:42:45
Local clock offset: -6.942 ms
Remote clock offset: 91.082 ms

# Below is generated by plot.py at 2019-06-28 08:23:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.52 Mbit/s
95th percentile per-packet one-way delay: 172.159 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 37.52 Mbit/s
95th percentile per-packet one-way delay: 172.159 ms
Loss rate: 0.67%
```

Run 4: Report of TCP Vegas — Data Link

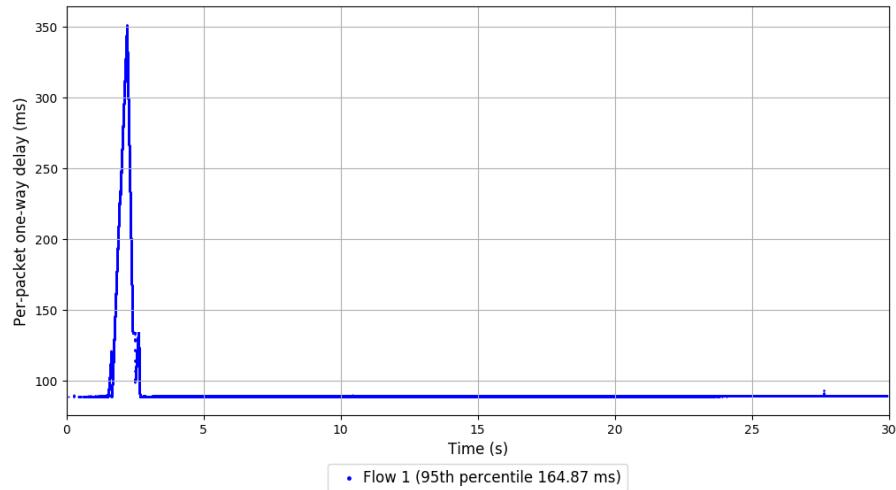
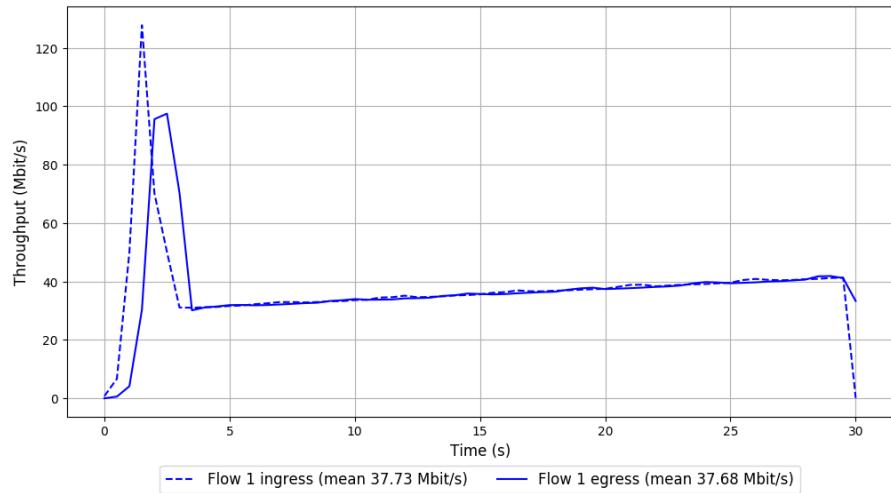


Run 5: Statistics of TCP Vegas

```
Start at: 2019-06-28 08:08:26
End at: 2019-06-28 08:08:56
Local clock offset: -6.665 ms
Remote clock offset: 109.656 ms

# Below is generated by plot.py at 2019-06-28 08:23:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.68 Mbit/s
95th percentile per-packet one-way delay: 164.867 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 37.68 Mbit/s
95th percentile per-packet one-way delay: 164.867 ms
Loss rate: 0.71%
```

Run 5: Report of TCP Vegas — Data Link

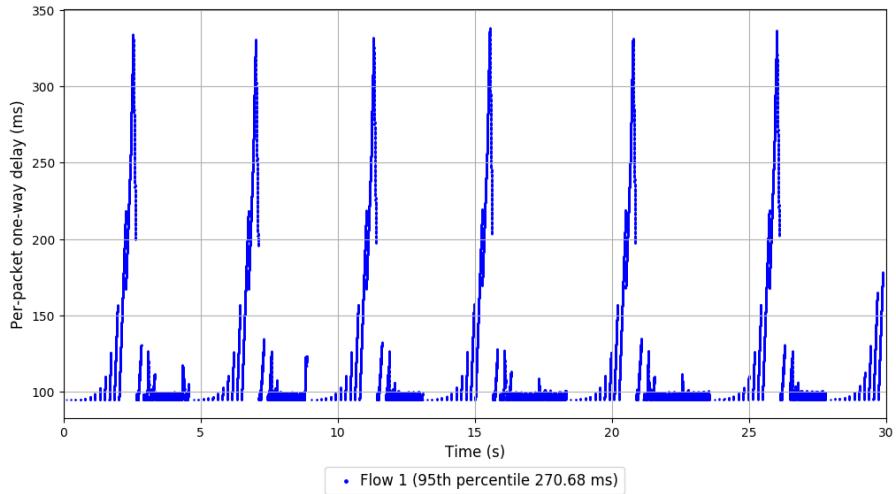
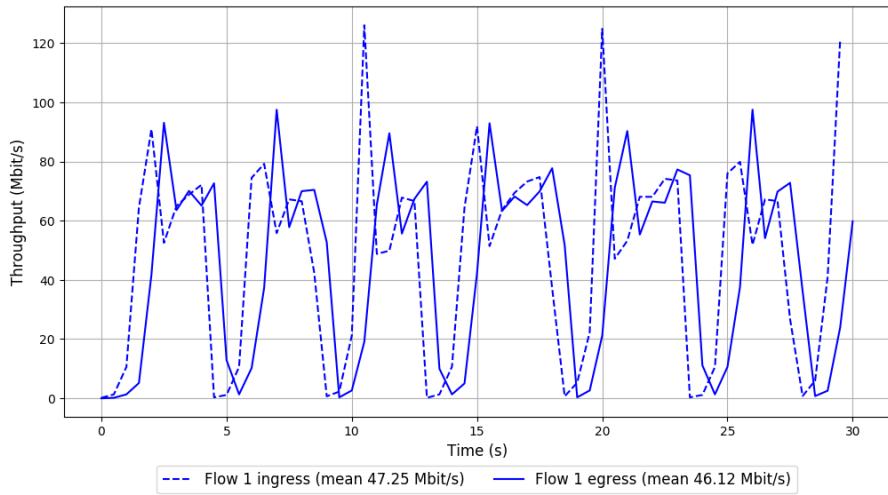


Run 1: Statistics of Verus

```
Start at: 2019-06-28 06:04:14
End at: 2019-06-28 06:04:44
Local clock offset: -8.644 ms
Remote clock offset: 40.488 ms

# Below is generated by plot.py at 2019-06-28 08:23:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 270.677 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 270.677 ms
Loss rate: 2.95%
```

Run 1: Report of Verus — Data Link

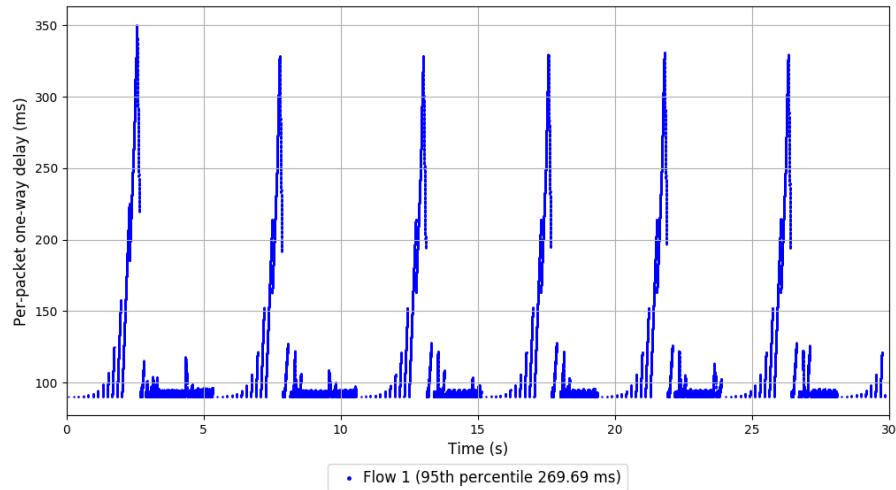
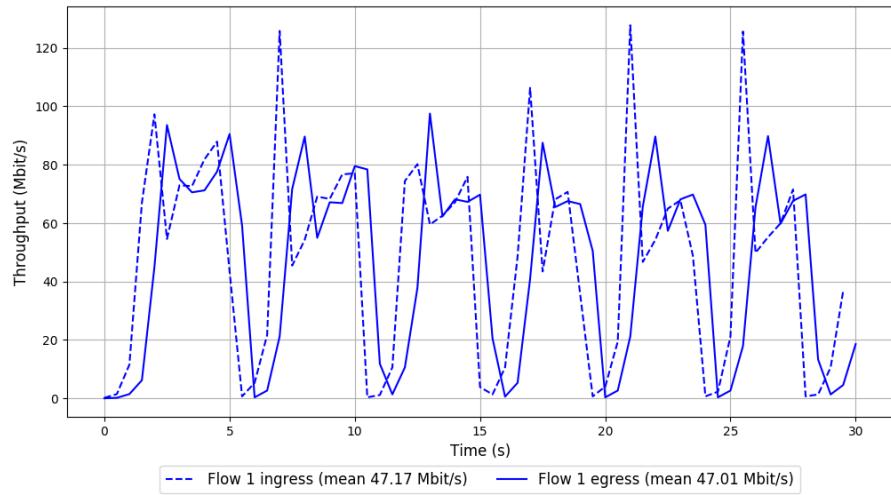


Run 2: Statistics of Verus

```
Start at: 2019-06-28 06:30:37
End at: 2019-06-28 06:31:07
Local clock offset: -6.763 ms
Remote clock offset: 58.995 ms

# Below is generated by plot.py at 2019-06-28 08:23:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.01 Mbit/s
95th percentile per-packet one-way delay: 269.695 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 47.01 Mbit/s
95th percentile per-packet one-way delay: 269.695 ms
Loss rate: 0.92%
```

Run 2: Report of Verus — Data Link

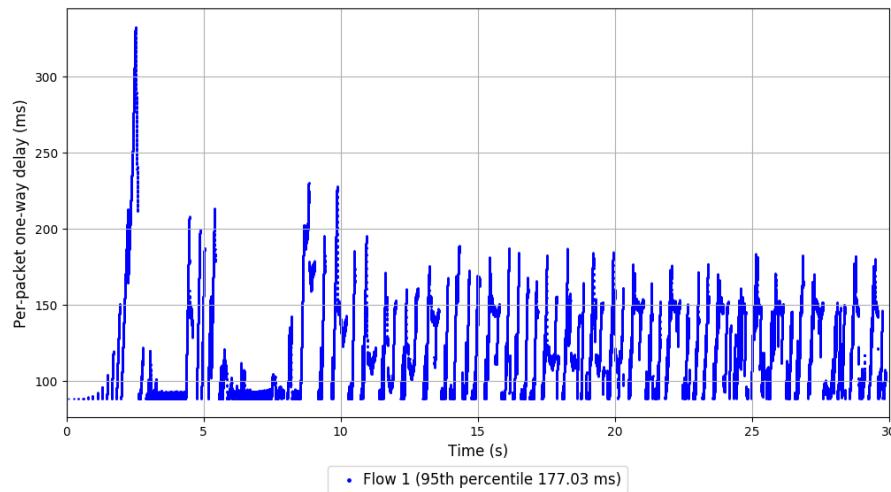
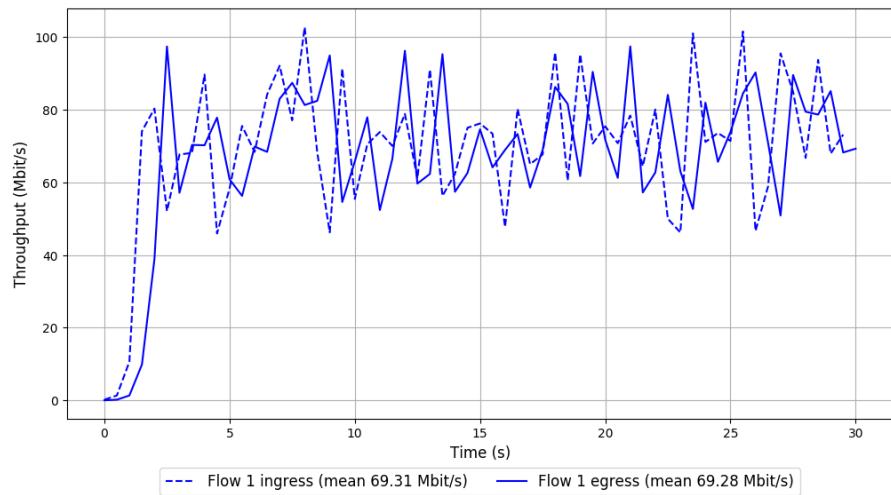


Run 3: Statistics of Verus

```
Start at: 2019-06-28 06:56:47
End at: 2019-06-28 06:57:17
Local clock offset: -6.766 ms
Remote clock offset: 73.22 ms

# Below is generated by plot.py at 2019-06-28 08:23:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.28 Mbit/s
95th percentile per-packet one-way delay: 177.025 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 69.28 Mbit/s
95th percentile per-packet one-way delay: 177.025 ms
Loss rate: 0.66%
```

Run 3: Report of Verus — Data Link

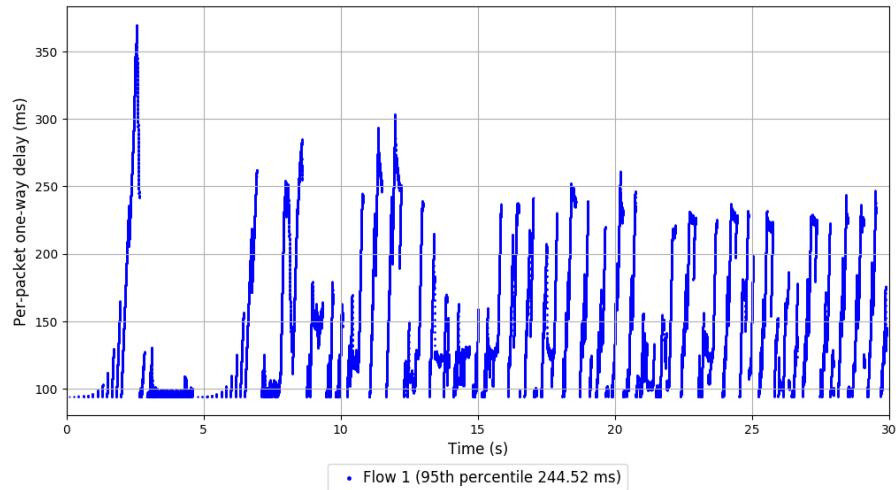
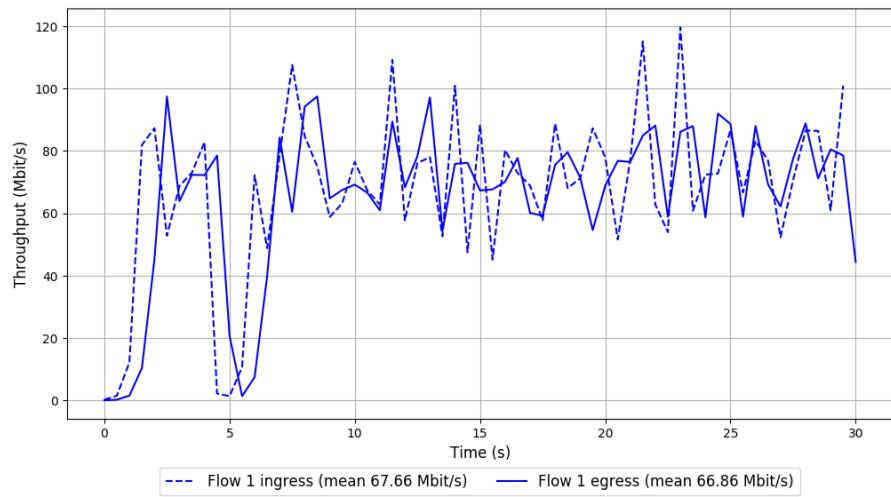


Run 4: Statistics of Verus

```
Start at: 2019-06-28 07:23:00
End at: 2019-06-28 07:23:30
Local clock offset: -6.523 ms
Remote clock offset: 81.254 ms

# Below is generated by plot.py at 2019-06-28 08:23:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.86 Mbit/s
95th percentile per-packet one-way delay: 244.523 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 66.86 Mbit/s
95th percentile per-packet one-way delay: 244.523 ms
Loss rate: 1.74%
```

Run 4: Report of Verus — Data Link

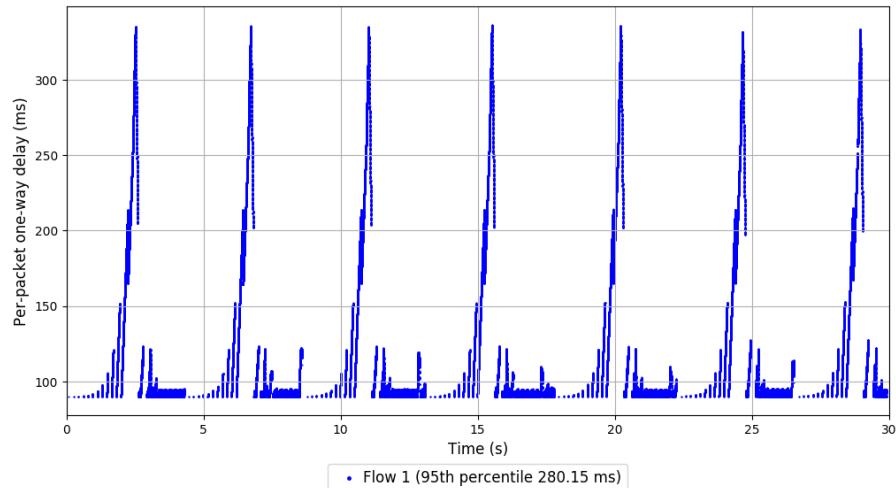
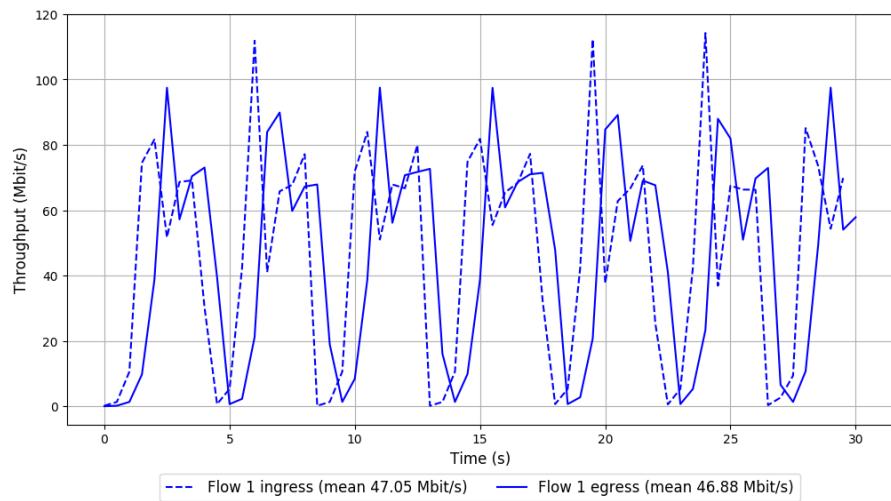


Run 5: Statistics of Verus

```
Start at: 2019-06-28 07:49:11
End at: 2019-06-28 07:49:41
Local clock offset: -6.373 ms
Remote clock offset: 98.685 ms

# Below is generated by plot.py at 2019-06-28 08:23:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 280.150 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 280.150 ms
Loss rate: 0.93%
```

Run 5: Report of Verus — Data Link

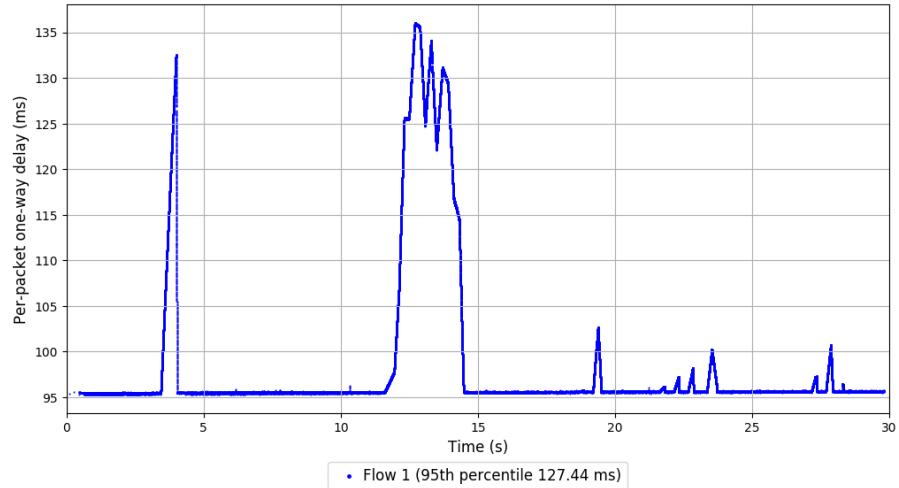
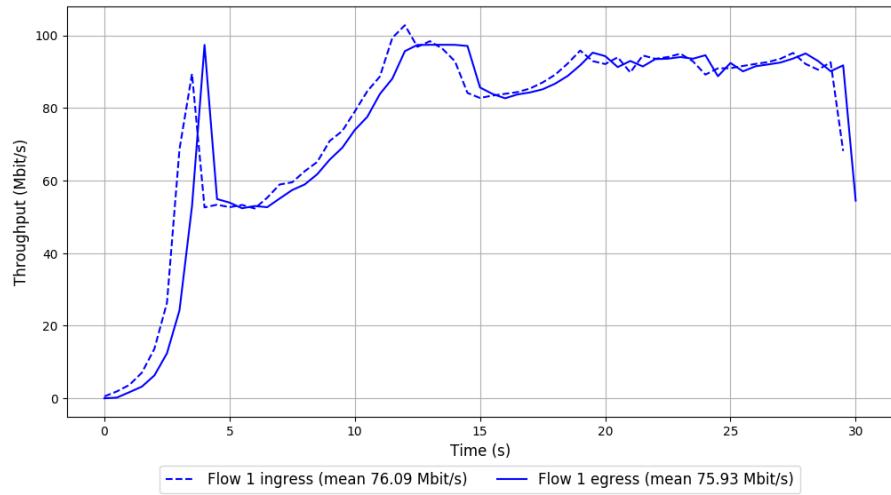


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-06-28 06:22:28
End at: 2019-06-28 06:22:58
Local clock offset: -7.481 ms
Remote clock offset: 49.745 ms

# Below is generated by plot.py at 2019-06-28 08:24:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.93 Mbit/s
95th percentile per-packet one-way delay: 127.442 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 75.93 Mbit/s
95th percentile per-packet one-way delay: 127.442 ms
Loss rate: 0.79%
```

Run 1: Report of PCC-Vivace — Data Link

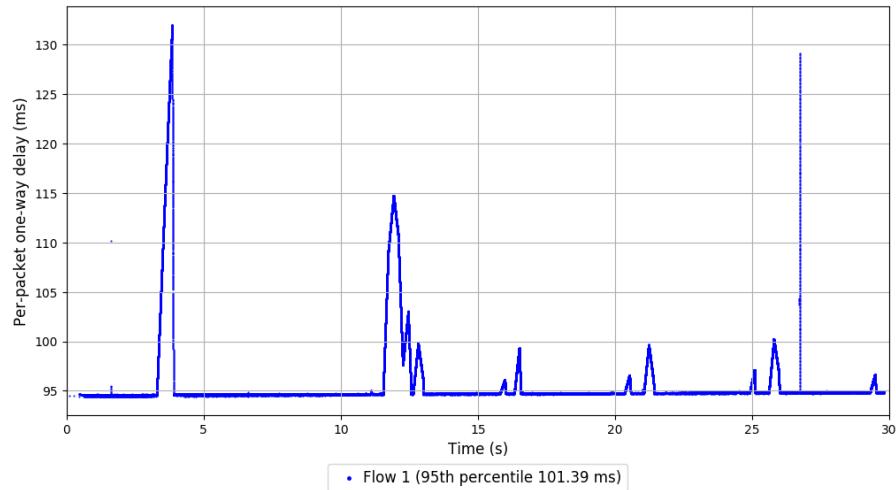
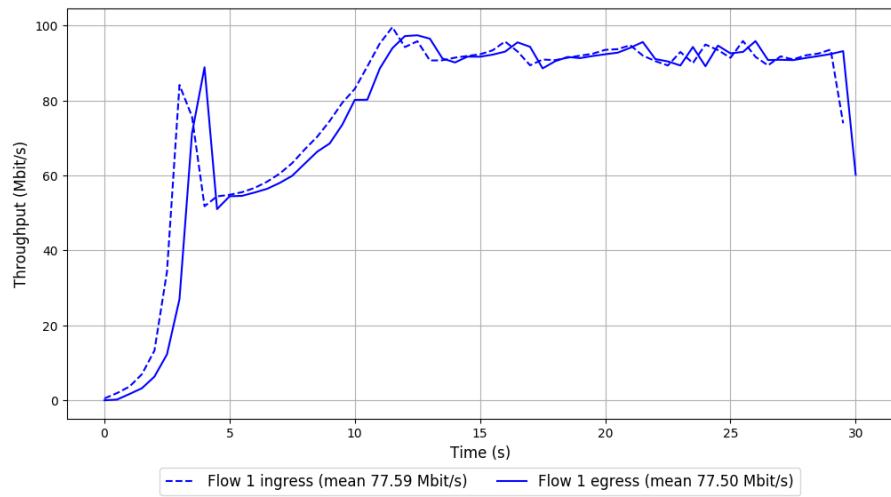


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-06-28 06:48:38
End at: 2019-06-28 06:49:08
Local clock offset: -7.272 ms
Remote clock offset: 62.943 ms

# Below is generated by plot.py at 2019-06-28 08:24:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.50 Mbit/s
95th percentile per-packet one-way delay: 101.388 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 77.50 Mbit/s
95th percentile per-packet one-way delay: 101.388 ms
Loss rate: 0.69%
```

Run 2: Report of PCC-Vivace — Data Link

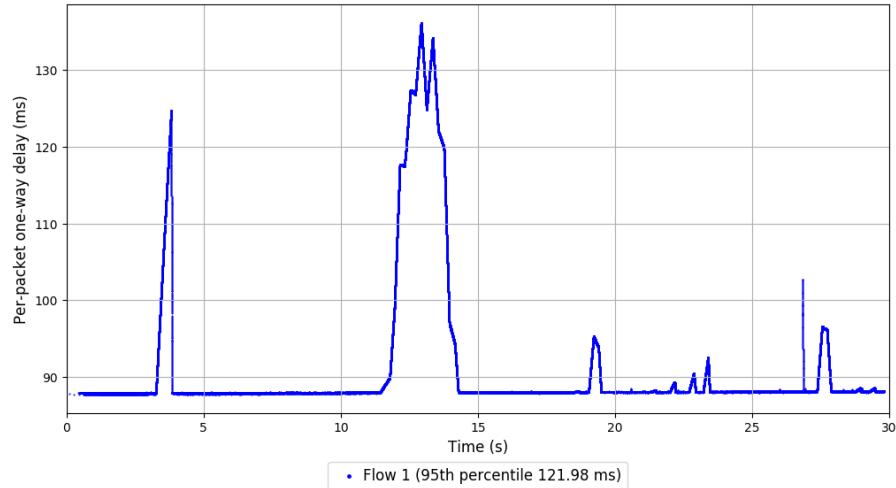
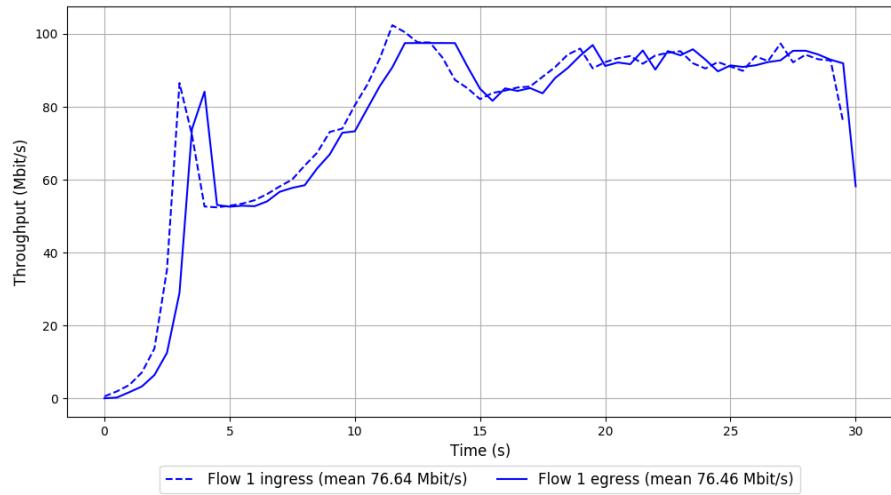


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-06-28 07:14:51
End at: 2019-06-28 07:15:21
Local clock offset: -7.513 ms
Remote clock offset: 82.384 ms

# Below is generated by plot.py at 2019-06-28 08:24:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.46 Mbit/s
95th percentile per-packet one-way delay: 121.979 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 76.46 Mbit/s
95th percentile per-packet one-way delay: 121.979 ms
Loss rate: 0.82%
```

Run 3: Report of PCC-Vivace — Data Link

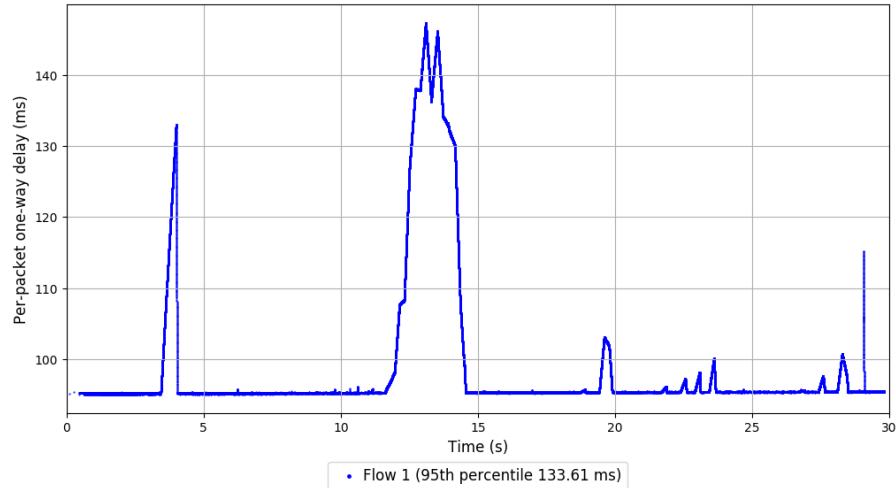
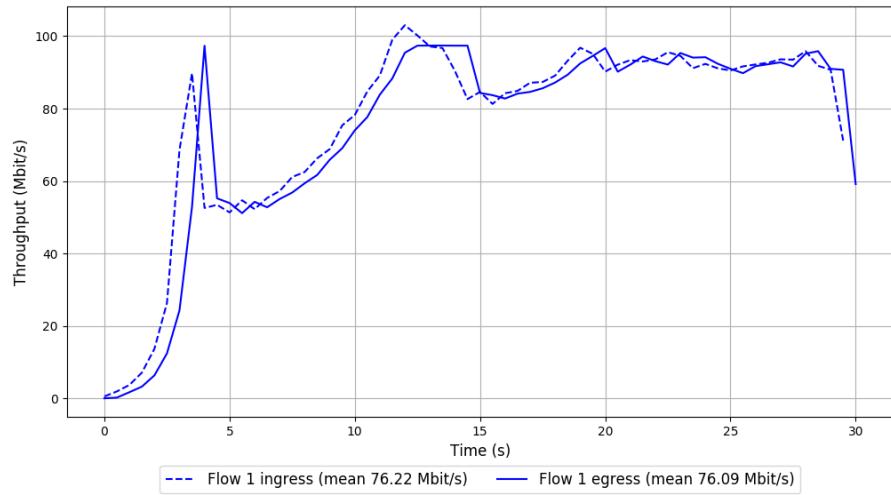


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-06-28 07:41:02
End at: 2019-06-28 07:41:32
Local clock offset: -6.45 ms
Remote clock offset: 89.363 ms

# Below is generated by plot.py at 2019-06-28 08:24:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.09 Mbit/s
95th percentile per-packet one-way delay: 133.606 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 76.09 Mbit/s
95th percentile per-packet one-way delay: 133.606 ms
Loss rate: 0.75%
```

Run 4: Report of PCC-Vivace — Data Link

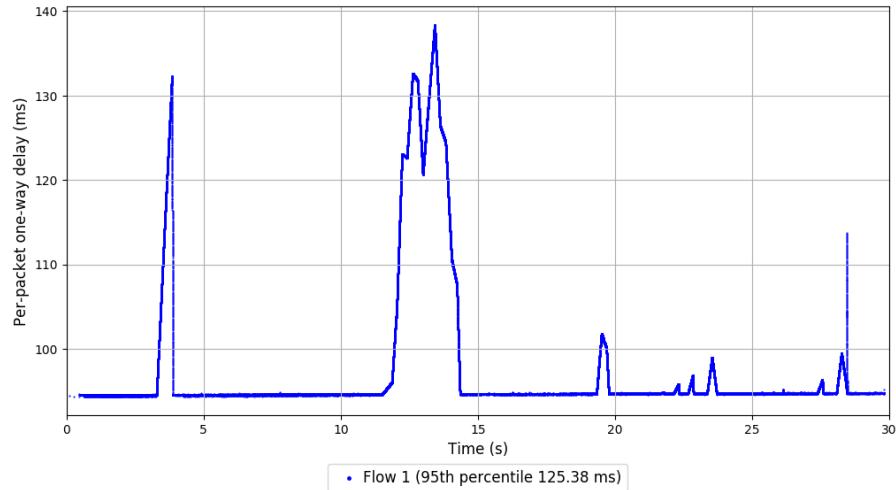
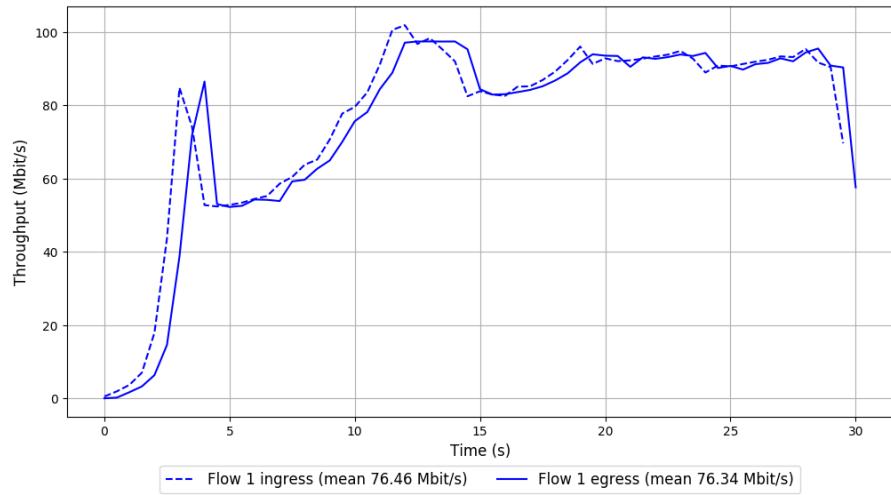


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-06-28 08:07:13
End at: 2019-06-28 08:07:43
Local clock offset: -7.454 ms
Remote clock offset: 102.537 ms

# Below is generated by plot.py at 2019-06-28 08:24:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.34 Mbit/s
95th percentile per-packet one-way delay: 125.382 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 76.34 Mbit/s
95th percentile per-packet one-way delay: 125.382 ms
Loss rate: 0.74%
```

Run 5: Report of PCC-Vivace — Data Link

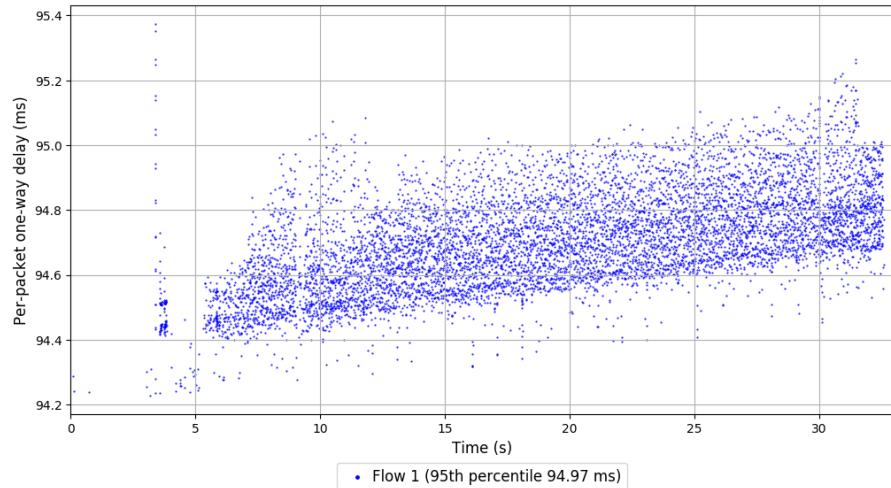
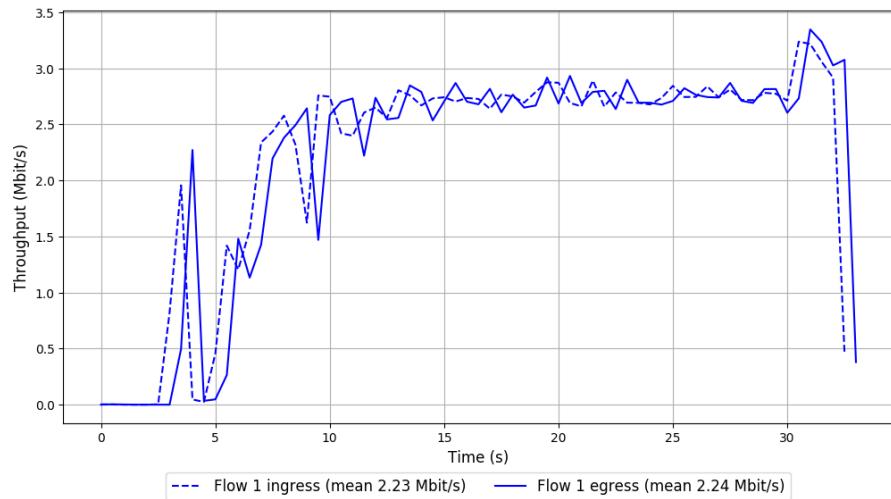


```
Run 1: Statistics of WebRTC media

Start at: 2019-06-28 05:59:39
End at: 2019-06-28 06:00:09
Local clock offset: -8.289 ms
Remote clock offset: 38.489 ms

# Below is generated by plot.py at 2019-06-28 08:24:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 94.966 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 94.966 ms
Loss rate: 0.30%
```

Run 1: Report of WebRTC media — Data Link

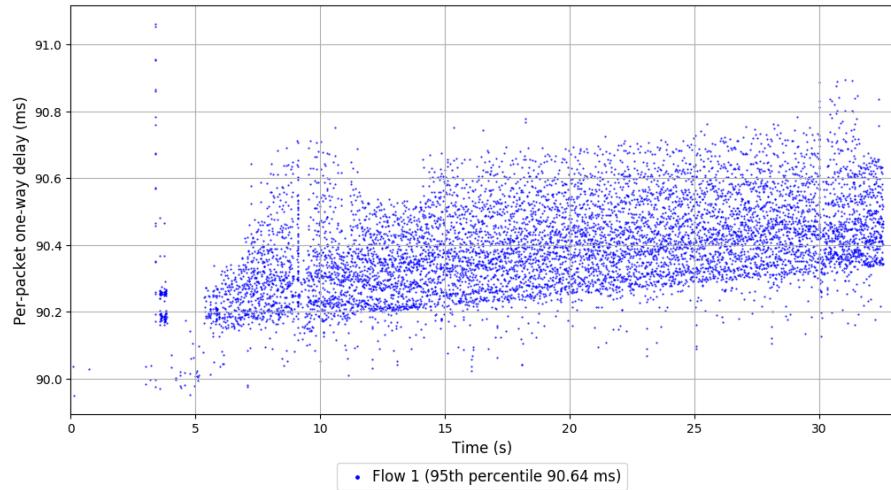
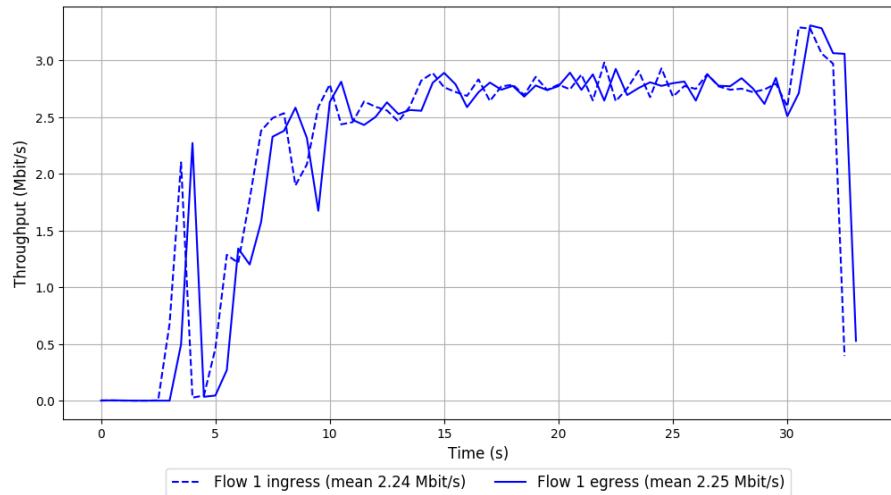


Run 2: Statistics of WebRTC media

```
Start at: 2019-06-28 06:26:01
End at: 2019-06-28 06:26:31
Local clock offset: -7.331 ms
Remote clock offset: 56.64 ms

# Below is generated by plot.py at 2019-06-28 08:24:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 90.635 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 90.635 ms
Loss rate: 0.27%
```

Run 2: Report of WebRTC media — Data Link

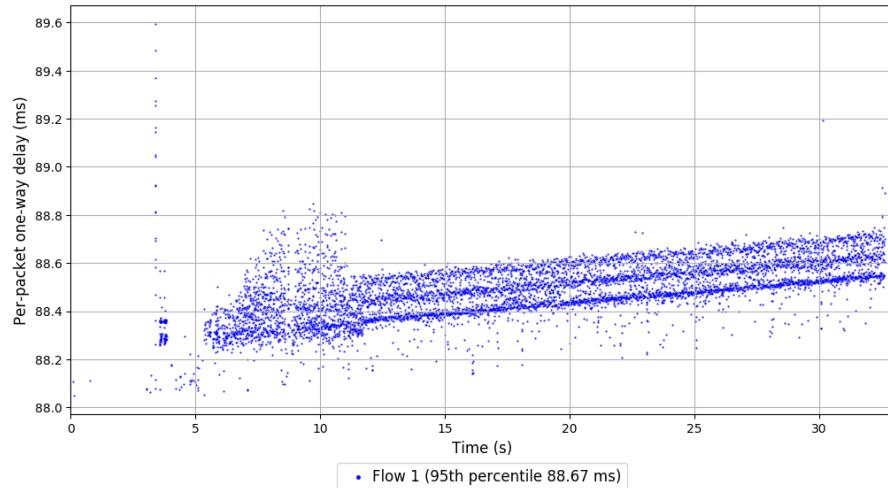
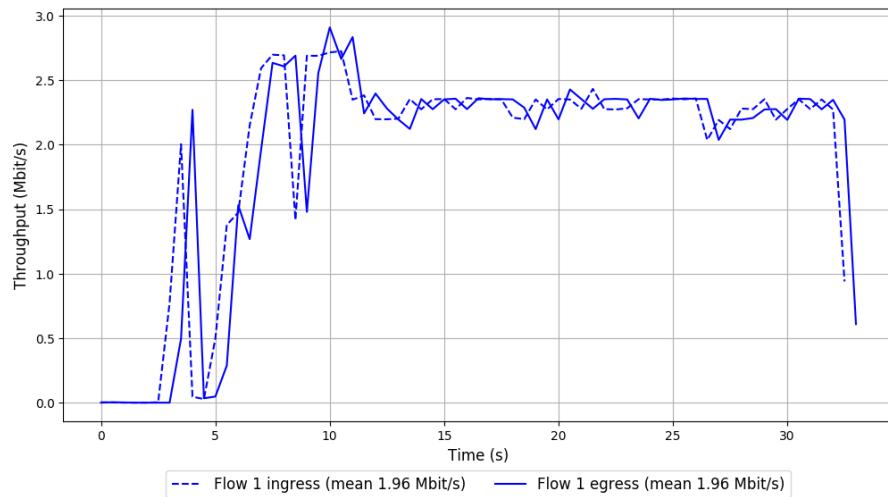


```
Run 3: Statistics of WebRTC media

Start at: 2019-06-28 06:52:12
End at: 2019-06-28 06:52:42
Local clock offset: -7.214 ms
Remote clock offset: 70.895 ms

# Below is generated by plot.py at 2019-06-28 08:24:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 88.669 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 88.669 ms
Loss rate: 0.63%
```

Run 3: Report of WebRTC media — Data Link

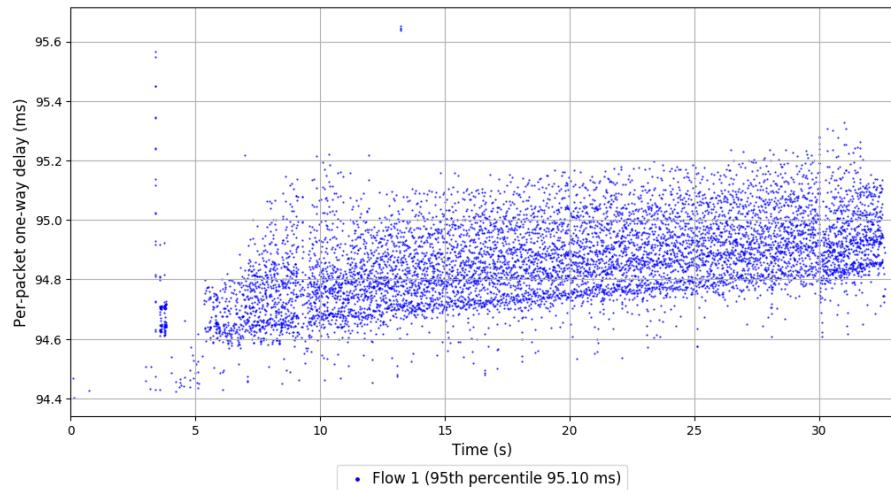
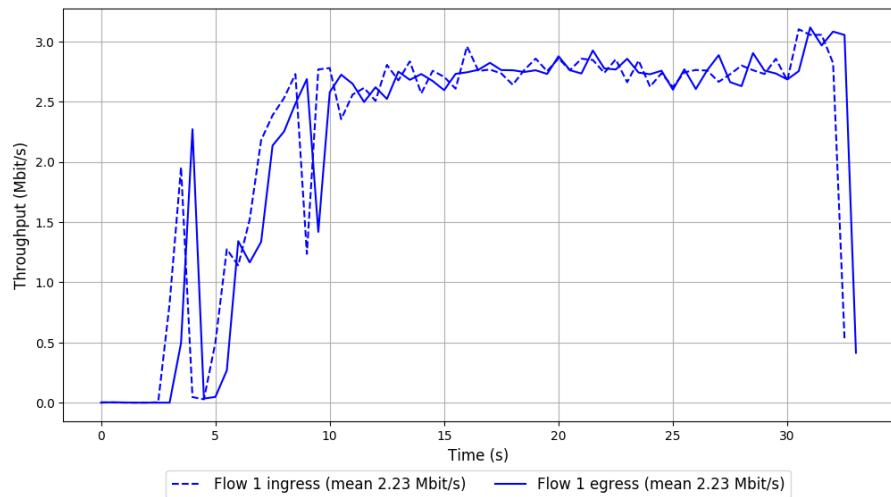


Run 4: Statistics of WebRTC media

```
Start at: 2019-06-28 07:18:25
End at: 2019-06-28 07:18:55
Local clock offset: -7.54 ms
Remote clock offset: 78.065 ms

# Below is generated by plot.py at 2019-06-28 08:24:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 95.099 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 95.099 ms
Loss rate: 0.33%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-06-28 07:44:36
End at: 2019-06-28 07:45:06
Local clock offset: -6.125 ms
Remote clock offset: 96.396 ms

# Below is generated by plot.py at 2019-06-28 08:24:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 90.866 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 90.866 ms
Loss rate: 0.31%
```

Run 5: Report of WebRTC media — Data Link

