

Pantheon Report

Generated at 2019-06-28 08:17:33 (UTC).
Data path: Brazil on p4p1 (*remote*) → AWS Brazil 1 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.

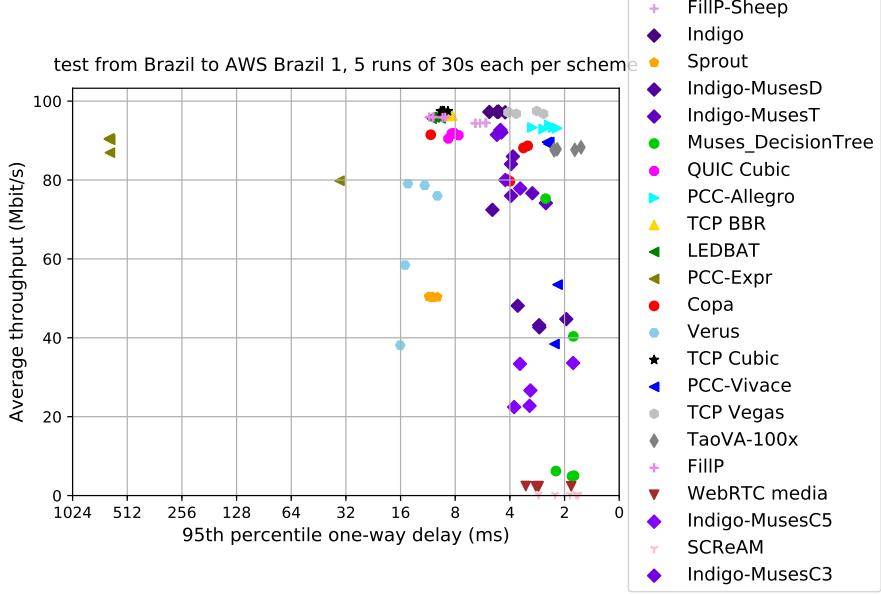
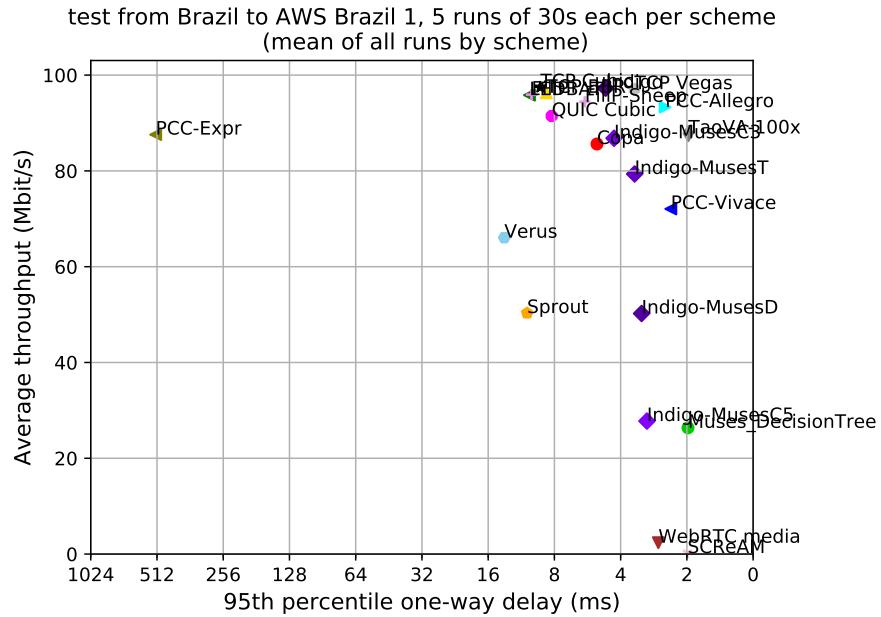
System info:

```
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 @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
```

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



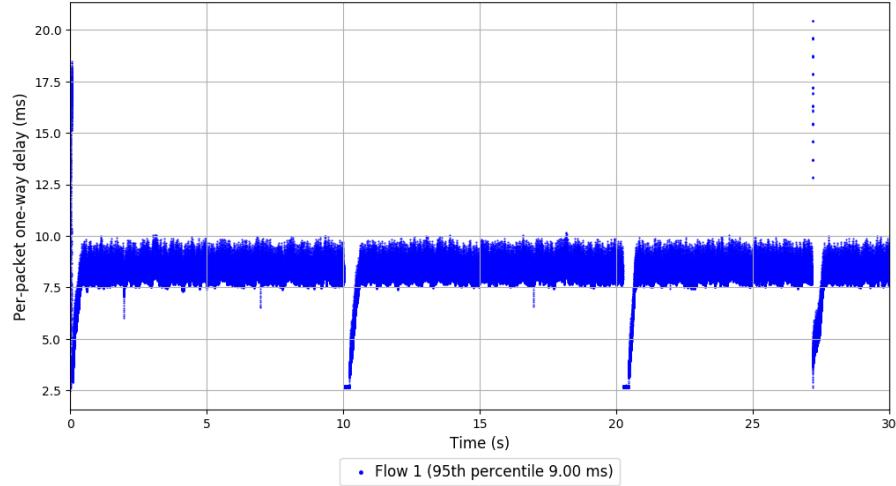
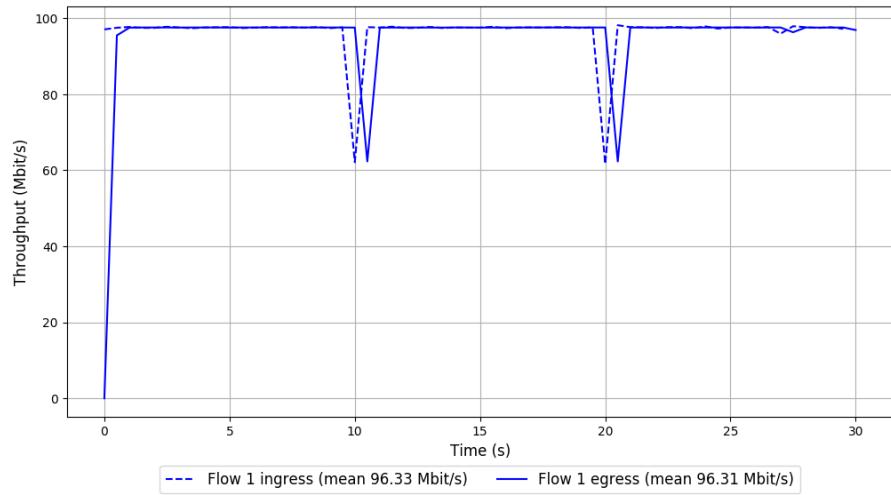
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.30	8.71	0.06
Copa	5	85.62	5.12	0.02
TCP Cubic	5	97.47	9.27	0.06
FillP	5	95.92	10.16	0.04
FillP-Sheep	5	94.43	5.82	0.03
Indigo	5	97.27	4.68	0.02
Indigo-MusesC3	5	86.81	4.29	0.02
Indigo-MusesC5	5	27.77	3.04	0.01
Indigo-MusesD	5	50.23	3.21	0.01
Indigo-MusesT	5	79.36	3.46	0.02
LEDBAT	5	95.81	10.40	0.08
Muses_DecisionTree	5	26.36	1.97	0.02
PCC-Allegro	5	93.33	2.51	0.02
PCC-Expr	5	87.58	519.37	4.45
QUIC Cubic	5	91.46	8.23	0.02
SCReAM	5	0.22	1.98	0.03
Sprout	5	50.32	10.65	0.04
TaoVA-100x	5	87.81	1.96	0.02
TCP Vegas	5	97.07	3.46	0.01
Verus	5	66.06	13.52	0.03
PCC-Vivace	5	72.06	2.37	0.01
WebRTC media	5	2.37	2.70	0.03

Run 1: Statistics of TCP BBR

```
Start at: 2019-06-28 06:00:43
End at: 2019-06-28 06:01:13
Local clock offset: -6.977 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-06-28 08:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 8.998 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 8.998 ms
Loss rate: 0.03%
```

Run 1: Report of TCP BBR — Data Link

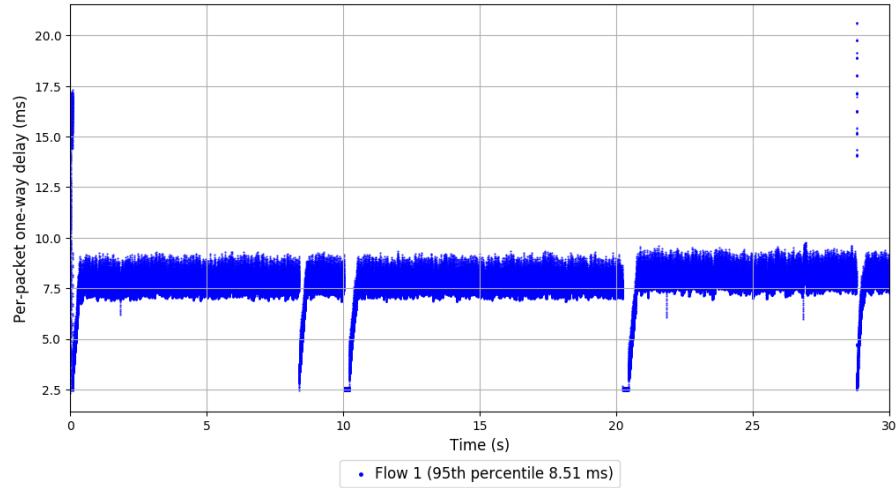
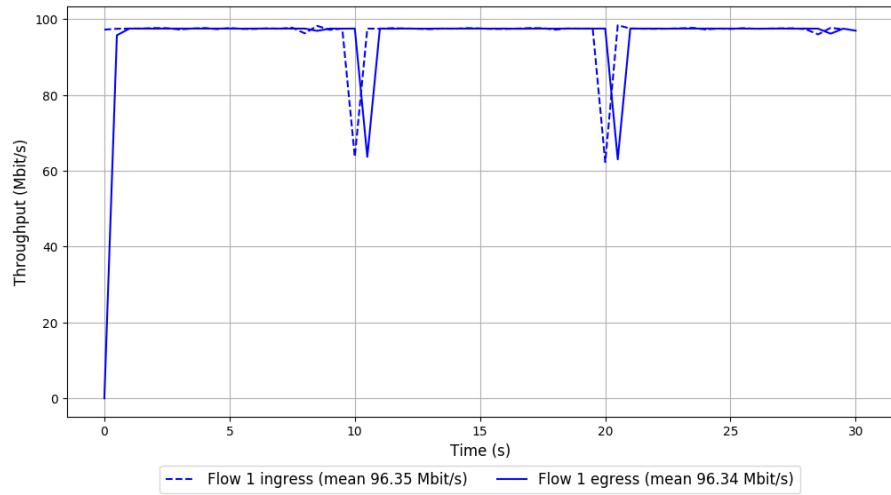


Run 2: Statistics of TCP BBR

```
Start at: 2019-06-28 06:25:28
End at: 2019-06-28 06:25:58
Local clock offset: -7.226 ms
Remote clock offset: 0.174 ms

# Below is generated by plot.py at 2019-06-28 08:04:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 8.509 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 8.509 ms
Loss rate: 0.03%
```

Run 2: Report of TCP BBR — Data Link

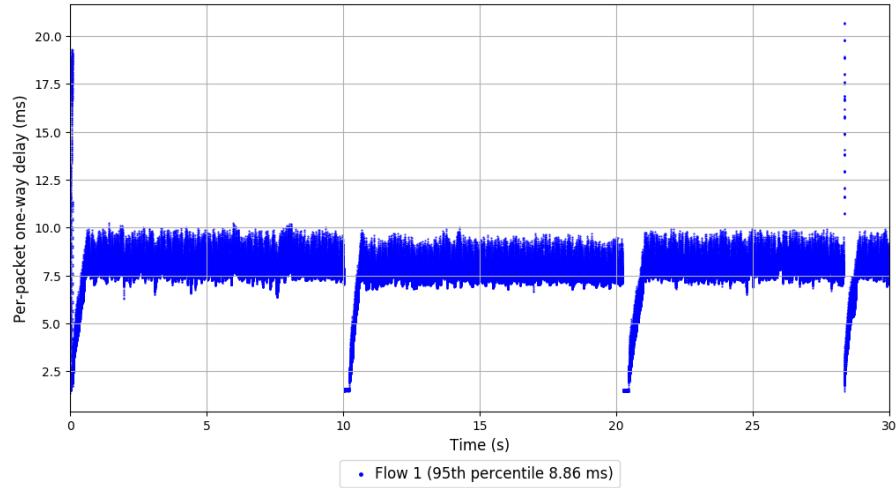
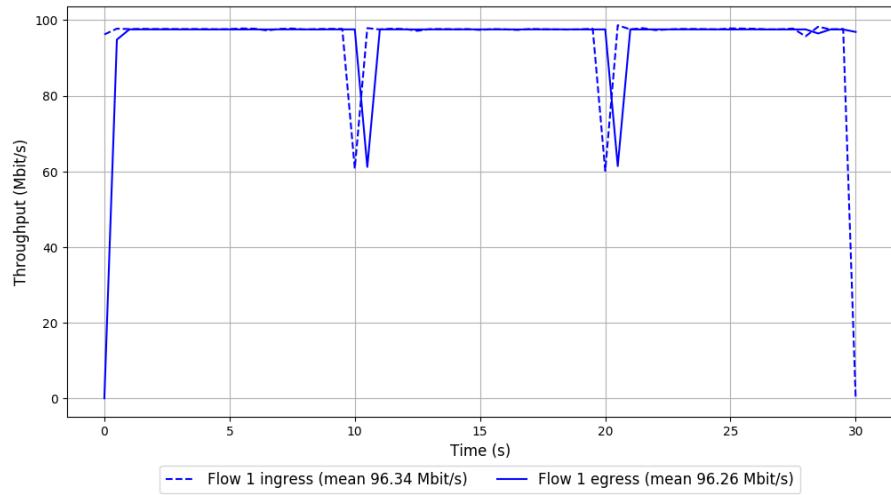


Run 3: Statistics of TCP BBR

```
Start at: 2019-06-28 06:50:19
End at: 2019-06-28 06:50:49
Local clock offset: -7.804 ms
Remote clock offset: 0.492 ms

# Below is generated by plot.py at 2019-06-28 08:04:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 8.857 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 8.857 ms
Loss rate: 0.10%
```

Run 3: Report of TCP BBR — Data Link

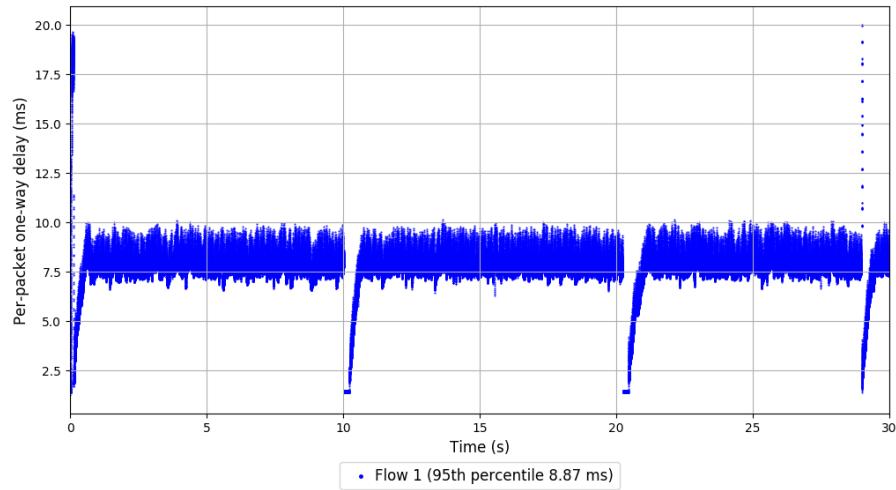
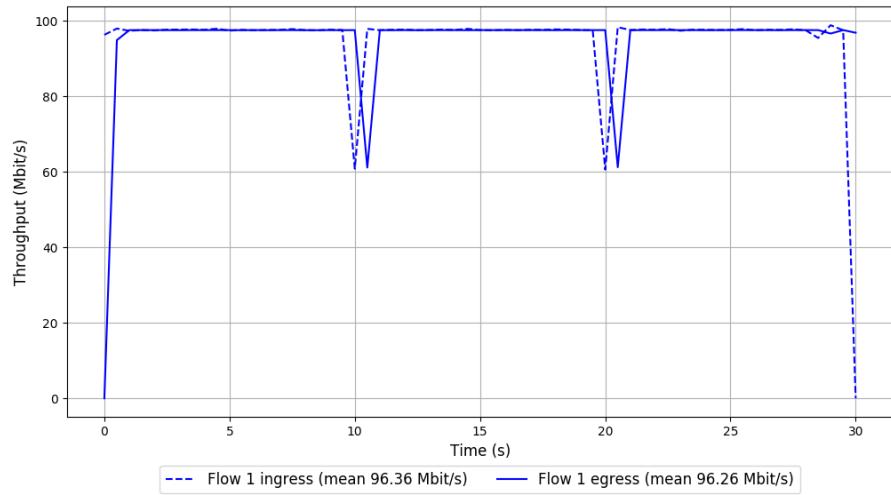


Run 4: Statistics of TCP BBR

```
Start at: 2019-06-28 07:15:08
End at: 2019-06-28 07:15:38
Local clock offset: -6.248 ms
Remote clock offset: 0.652 ms

# Below is generated by plot.py at 2019-06-28 08:04:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 8.869 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 8.869 ms
Loss rate: 0.12%
```

Run 4: Report of TCP BBR — Data Link

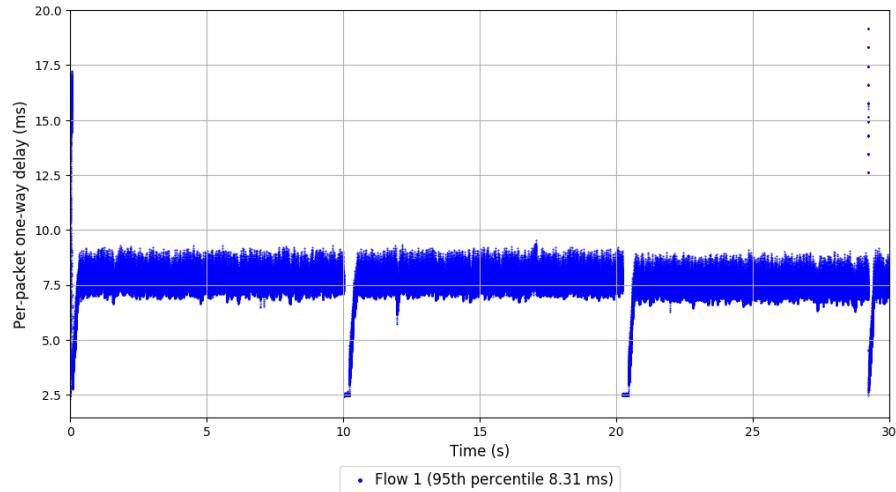
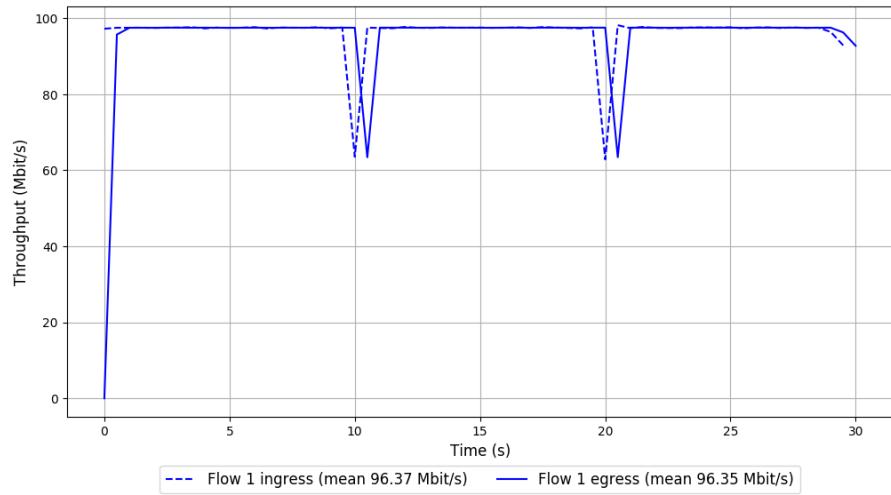


Run 5: Statistics of TCP BBR

```
Start at: 2019-06-28 07:39:57
End at: 2019-06-28 07:40:27
Local clock offset: -6.017 ms
Remote clock offset: 0.806 ms

# Below is generated by plot.py at 2019-06-28 08:04:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 8.308 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 8.308 ms
Loss rate: 0.03%
```

Run 5: Report of TCP BBR — Data Link

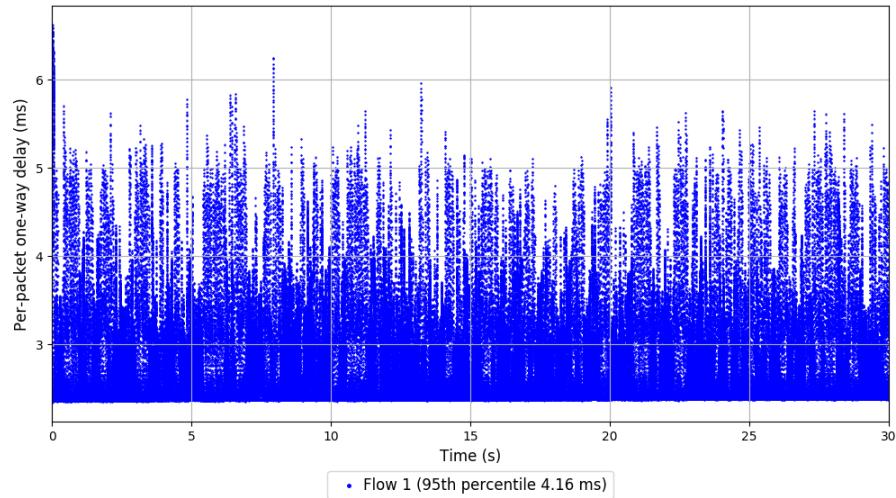
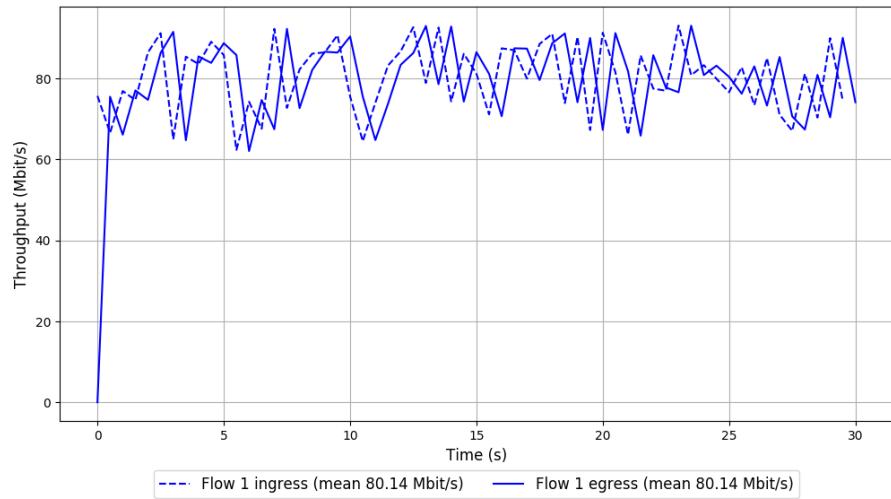


Run 1: Statistics of Copa

```
Start at: 2019-06-28 06:14:13
End at: 2019-06-28 06:14:43
Local clock offset: -7.033 ms
Remote clock offset: 0.1 ms

# Below is generated by plot.py at 2019-06-28 08:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.14 Mbit/s
95th percentile per-packet one-way delay: 4.158 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 80.14 Mbit/s
95th percentile per-packet one-way delay: 4.158 ms
Loss rate: 0.02%
```

Run 1: Report of Copa — Data Link

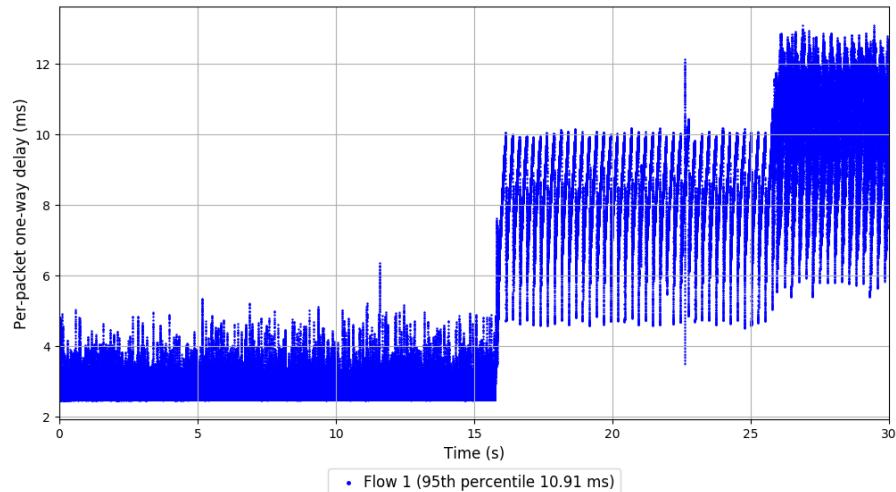
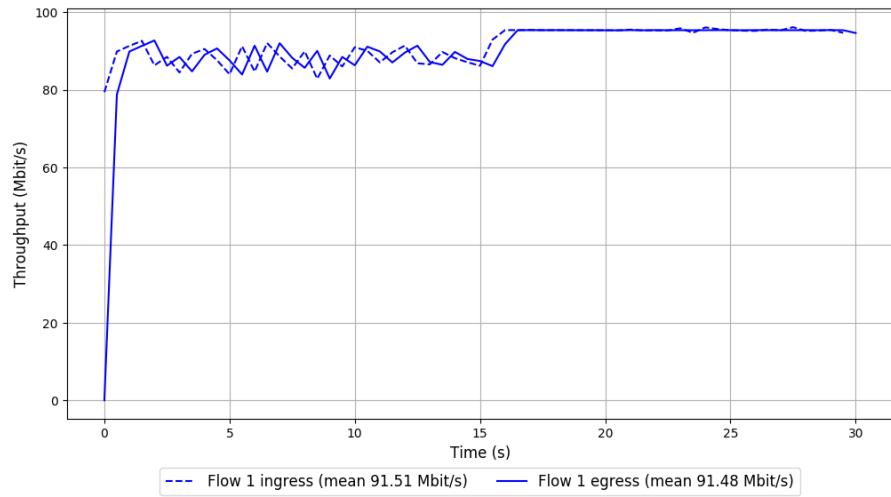


Run 2: Statistics of Copa

```
Start at: 2019-06-28 06:38:59
End at: 2019-06-28 06:39:29
Local clock offset: -7.374 ms
Remote clock offset: 0.305 ms

# Below is generated by plot.py at 2019-06-28 08:05:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 10.907 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 10.907 ms
Loss rate: 0.05%
```

Run 2: Report of Copa — Data Link

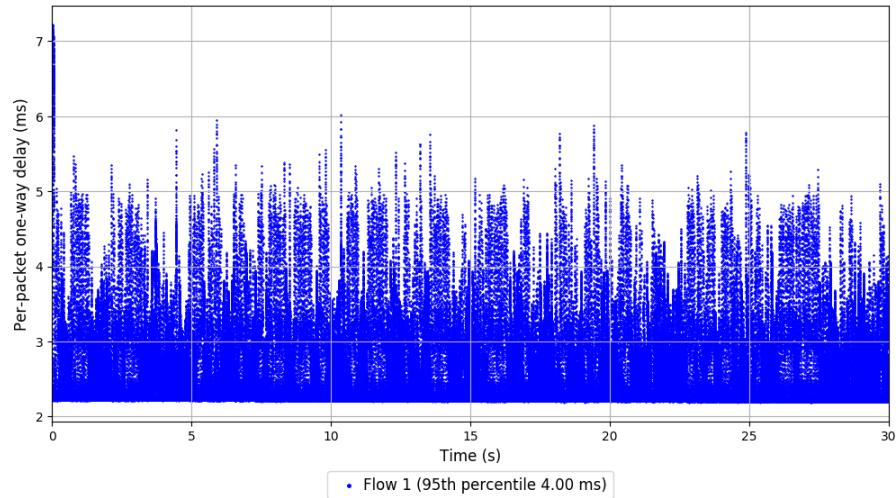
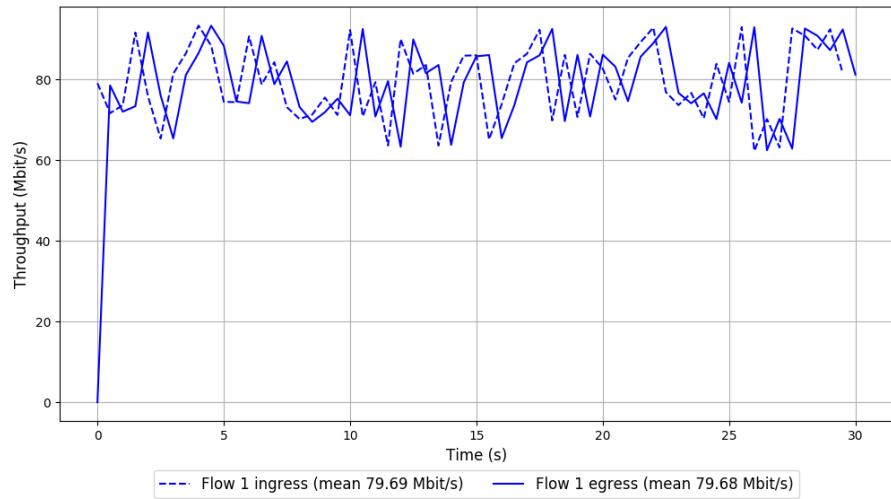


Run 3: Statistics of Copa

```
Start at: 2019-06-28 07:03:50
End at: 2019-06-28 07:04:20
Local clock offset: -5.87 ms
Remote clock offset: 0.535 ms

# Below is generated by plot.py at 2019-06-28 08:05:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.68 Mbit/s
95th percentile per-packet one-way delay: 4.000 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 79.68 Mbit/s
95th percentile per-packet one-way delay: 4.000 ms
Loss rate: 0.02%
```

Run 3: Report of Copa — Data Link

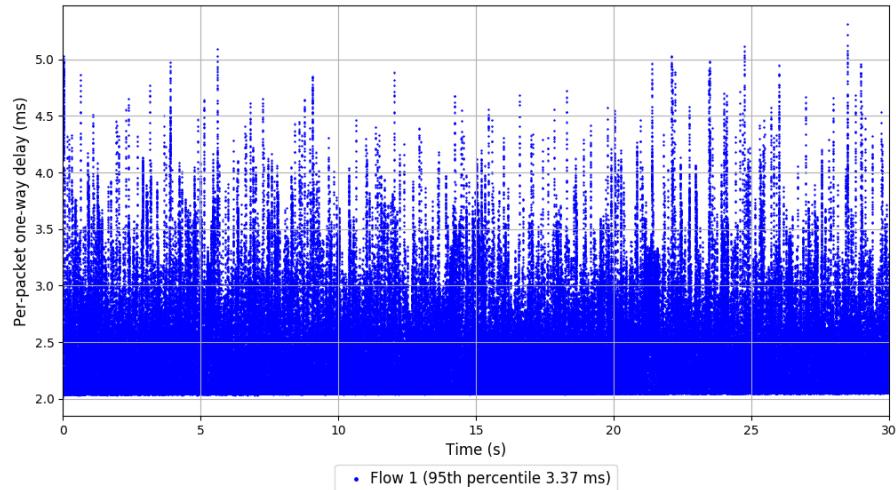
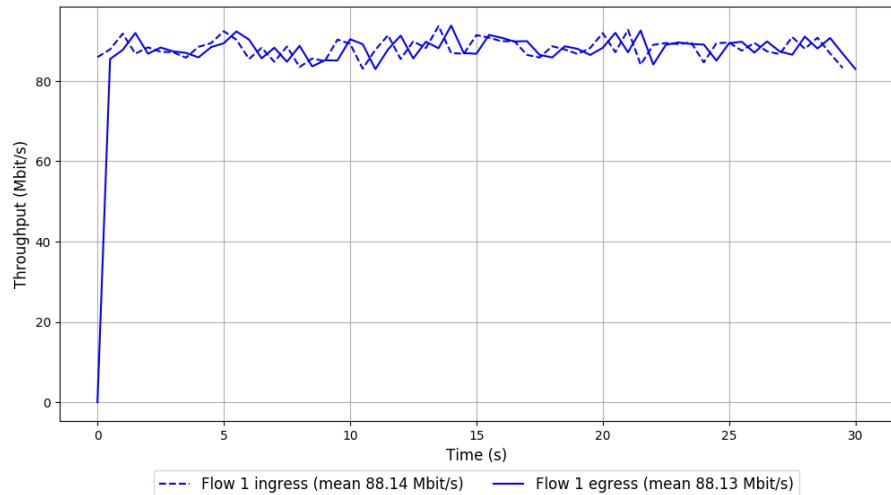


Run 4: Statistics of Copa

```
Start at: 2019-06-28 07:28:40
End at: 2019-06-28 07:29:10
Local clock offset: -6.649 ms
Remote clock offset: 0.782 ms

# Below is generated by plot.py at 2019-06-28 08:06:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.13 Mbit/s
95th percentile per-packet one-way delay: 3.368 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.13 Mbit/s
95th percentile per-packet one-way delay: 3.368 ms
Loss rate: 0.01%
```

Run 4: Report of Copa — Data Link

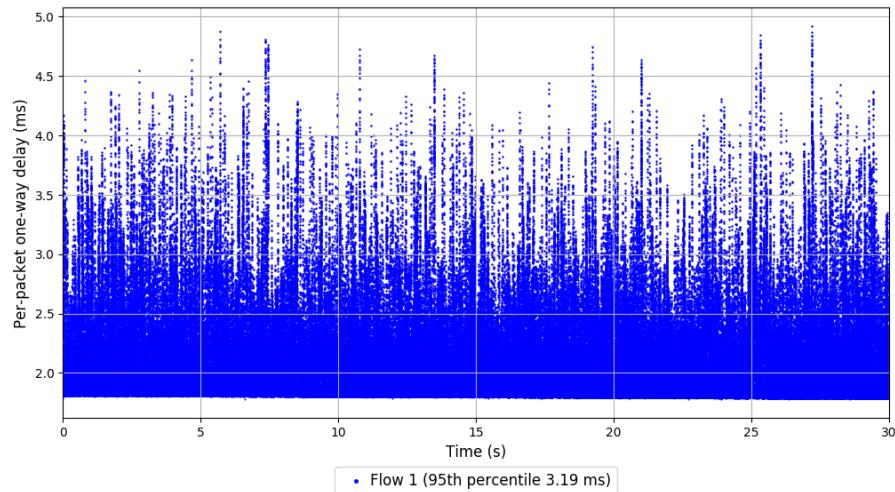
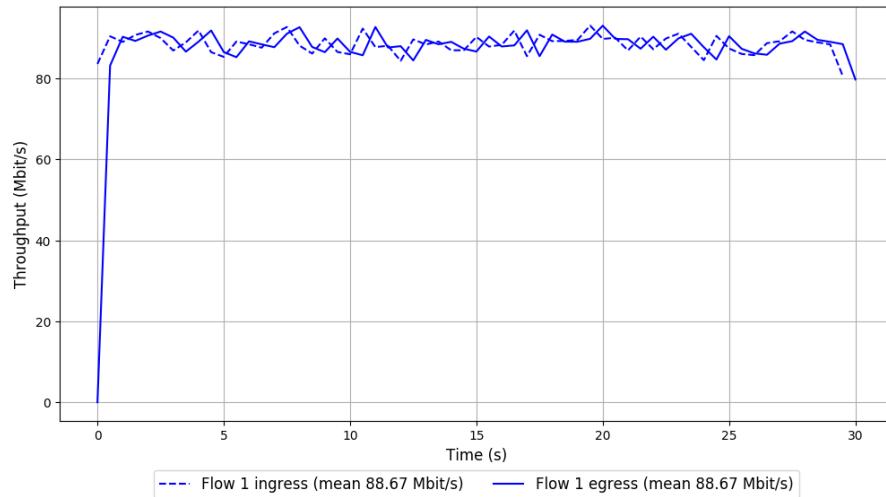


Run 5: Statistics of Copa

```
Start at: 2019-06-28 07:53:29
End at: 2019-06-28 07:53:59
Local clock offset: -6.734 ms
Remote clock offset: 0.919 ms

# Below is generated by plot.py at 2019-06-28 08:06:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.67 Mbit/s
95th percentile per-packet one-way delay: 3.191 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.67 Mbit/s
95th percentile per-packet one-way delay: 3.191 ms
Loss rate: 0.02%
```

Run 5: Report of Copa — Data Link

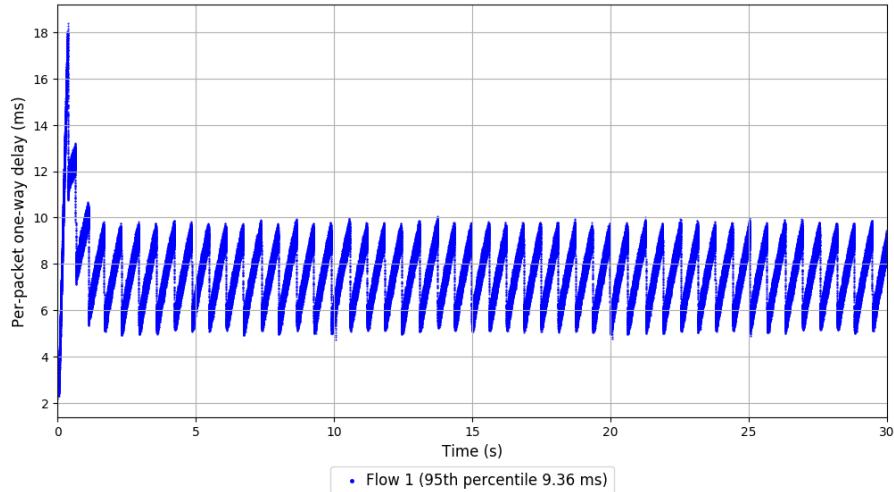
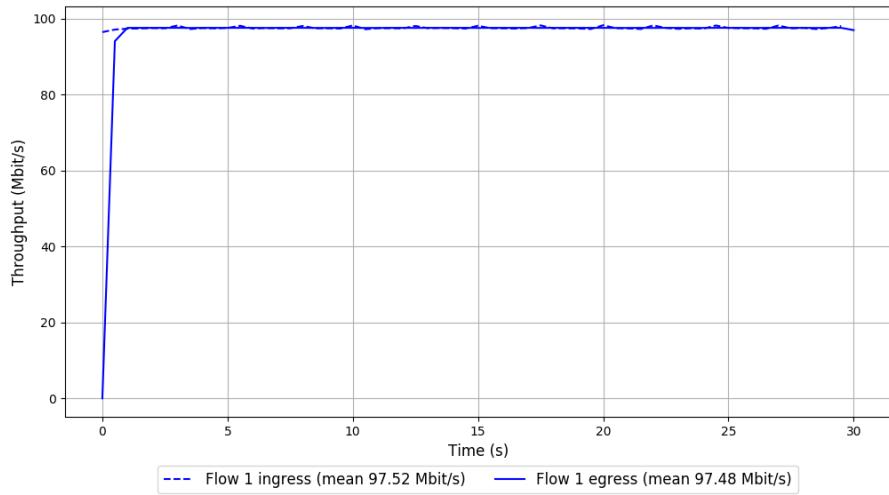


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-06-28 06:09:37
End at: 2019-06-28 06:10:07
Local clock offset: -7.01 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-06-28 08:06:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 9.364 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 9.364 ms
Loss rate: 0.06%
```

Run 1: Report of TCP Cubic — Data Link

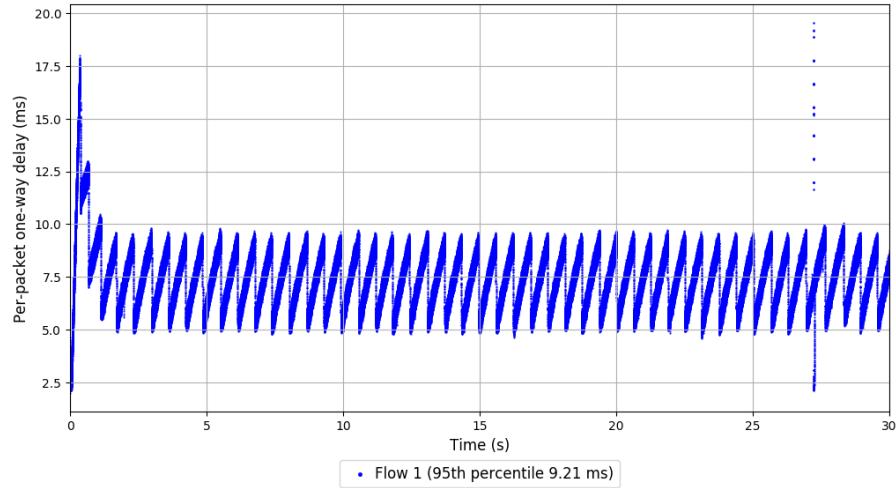
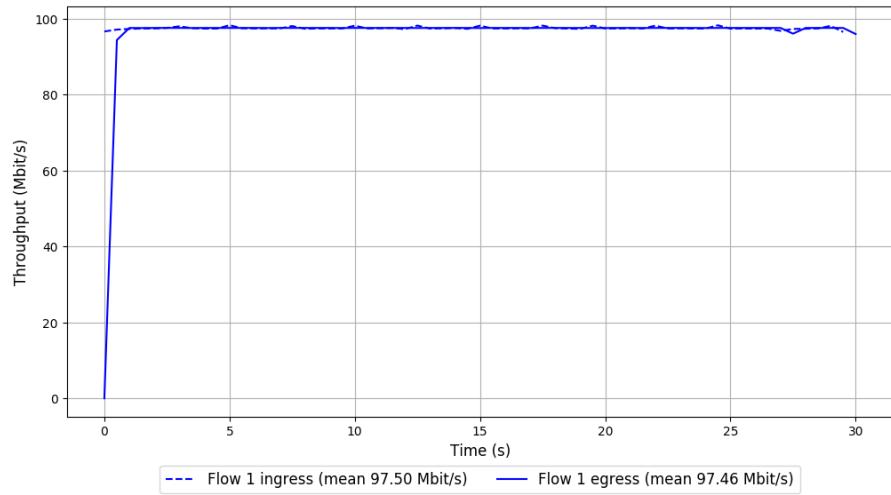


Run 2: Statistics of TCP Cubic

```
Start at: 2019-06-28 06:34:22
End at: 2019-06-28 06:34:52
Local clock offset: -7.619 ms
Remote clock offset: 0.308 ms

# Below is generated by plot.py at 2019-06-28 08:06:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 9.205 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 9.205 ms
Loss rate: 0.06%
```

Run 2: Report of TCP Cubic — Data Link

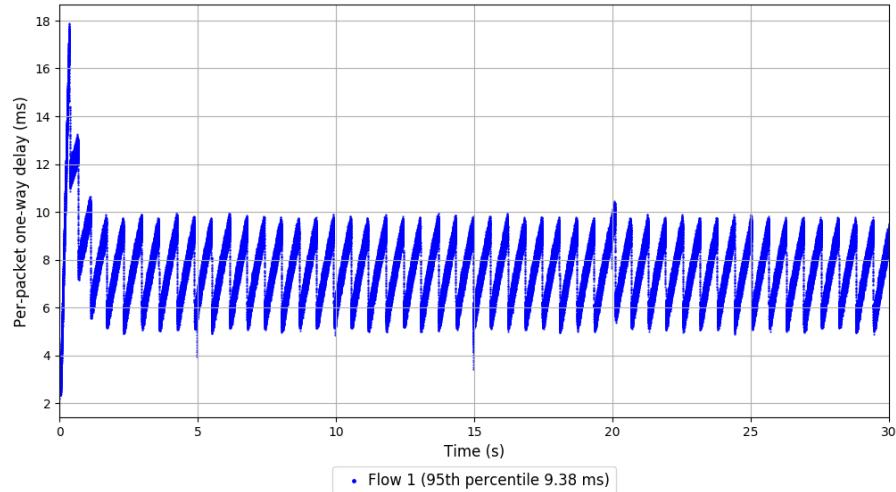
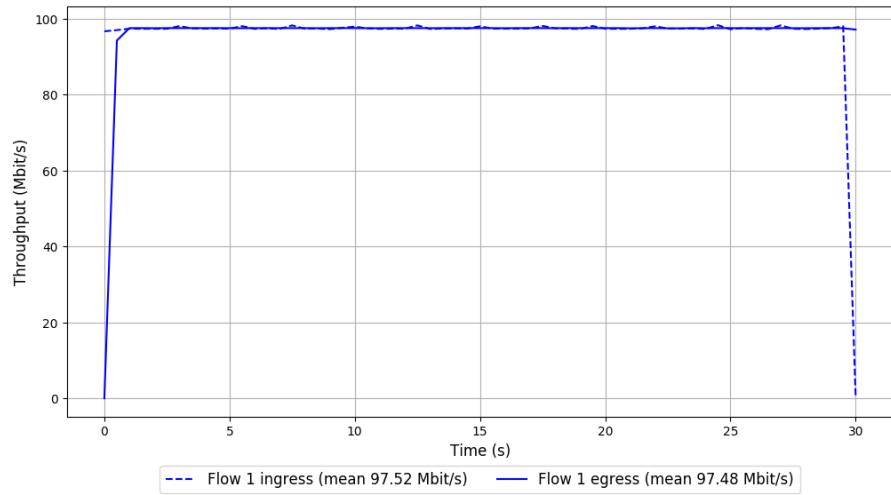


Run 3: Statistics of TCP Cubic

```
Start at: 2019-06-28 06:59:13
End at: 2019-06-28 06:59:43
Local clock offset: -5.952 ms
Remote clock offset: 0.6 ms

# Below is generated by plot.py at 2019-06-28 08:06:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 9.381 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 9.381 ms
Loss rate: 0.06%
```

Run 3: Report of TCP Cubic — Data Link

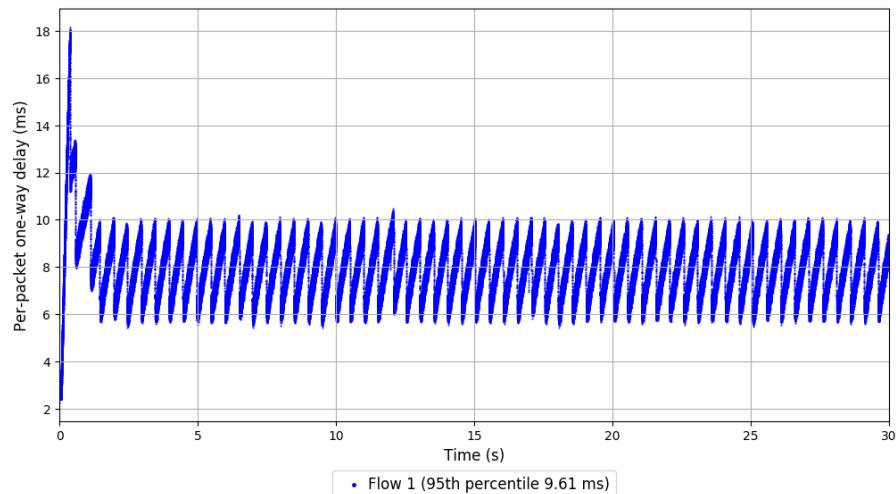
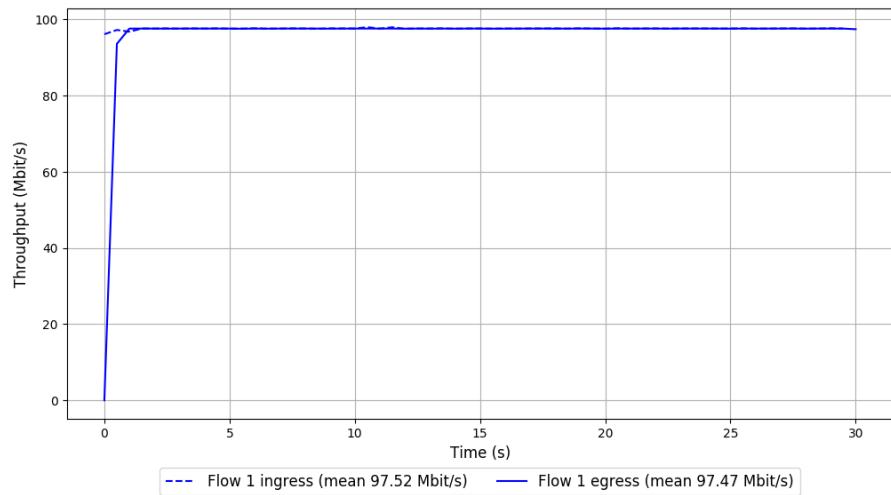


Run 4: Statistics of TCP Cubic

```
Start at: 2019-06-28 07:24:04
End at: 2019-06-28 07:24:34
Local clock offset: -5.672 ms
Remote clock offset: 0.767 ms

# Below is generated by plot.py at 2019-06-28 08:06:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 9.612 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 9.612 ms
Loss rate: 0.06%
```

Run 4: Report of TCP Cubic — Data Link

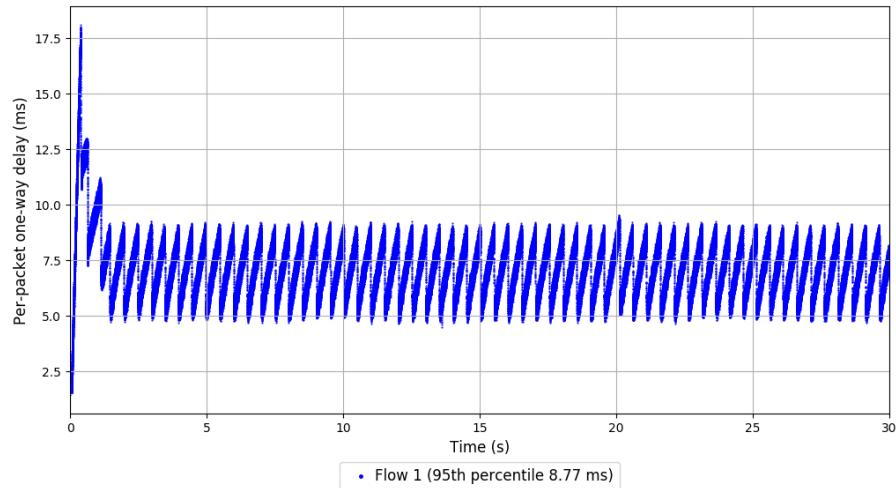
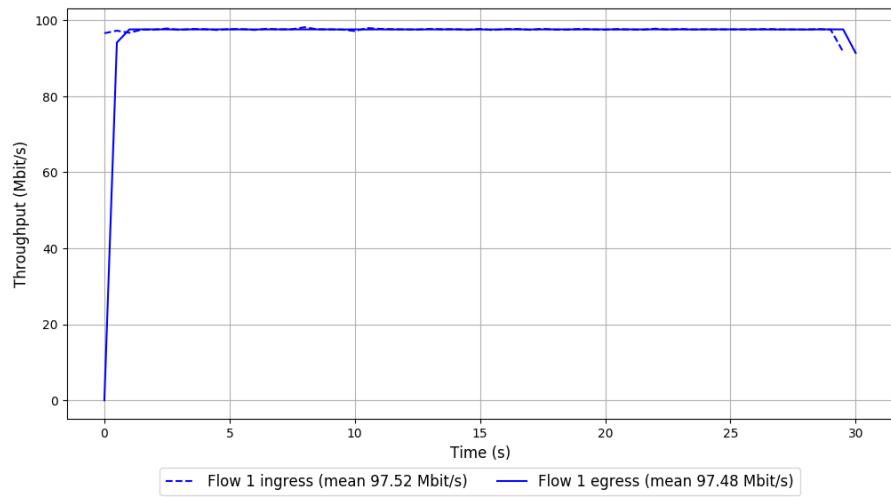


Run 5: Statistics of TCP Cubic

```
Start at: 2019-06-28 07:48:51
End at: 2019-06-28 07:49:21
Local clock offset: -6.747 ms
Remote clock offset: 0.958 ms

# Below is generated by plot.py at 2019-06-28 08:06:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 8.773 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 8.773 ms
Loss rate: 0.06%
```

Run 5: Report of TCP Cubic — Data Link

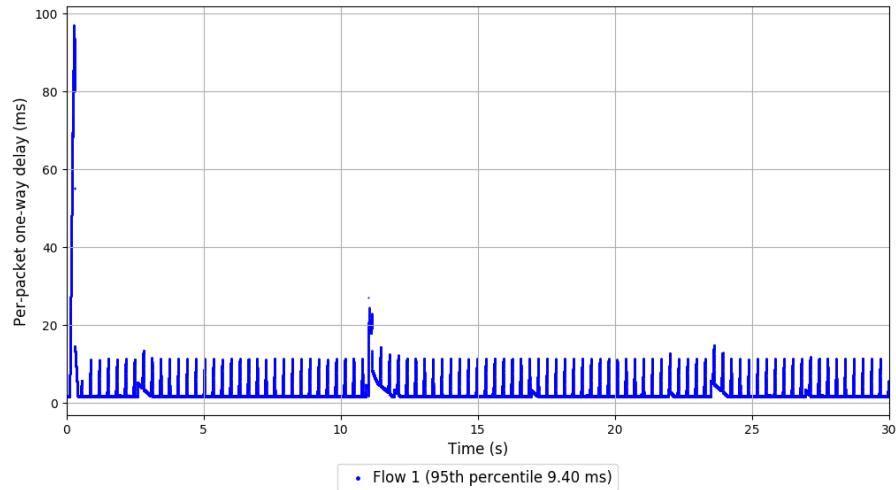
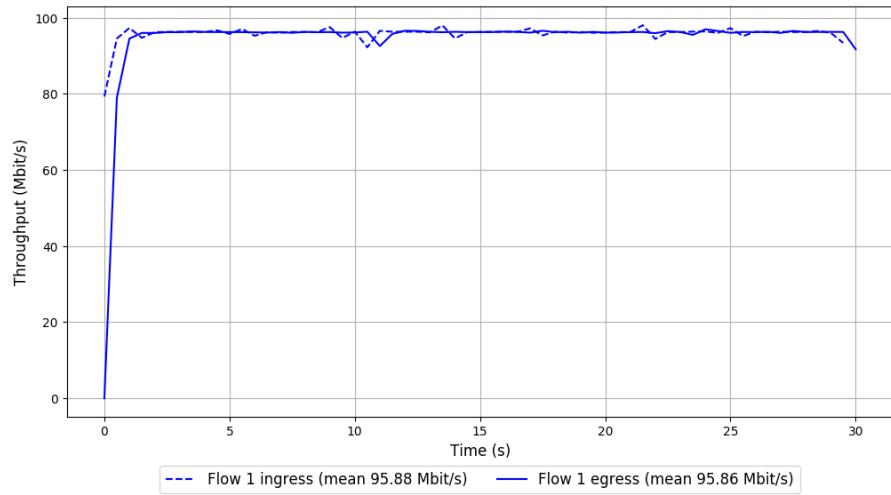


```
Run 1: Statistics of FillP

Start at: 2019-06-28 06:08:29
End at: 2019-06-28 06:08:59
Local clock offset: -7.732 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-06-28 08:07:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 9.398 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 9.398 ms
Loss rate: 0.04%
```

Run 1: Report of FillP — Data Link

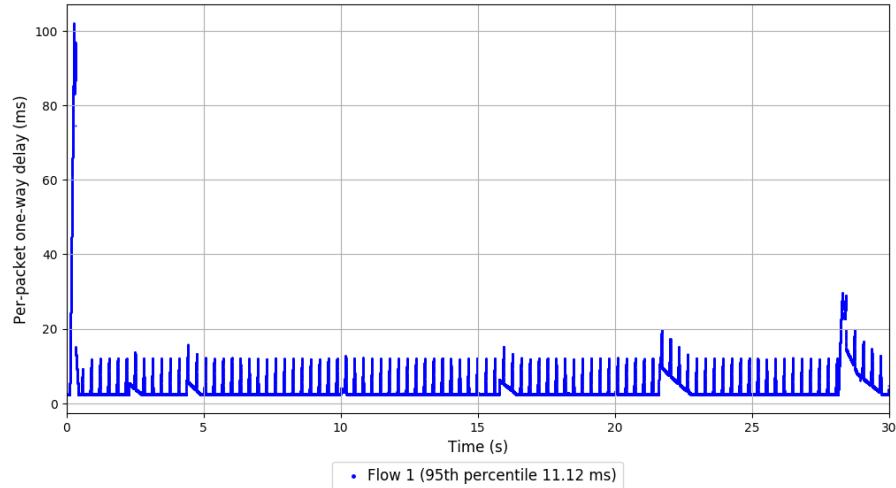
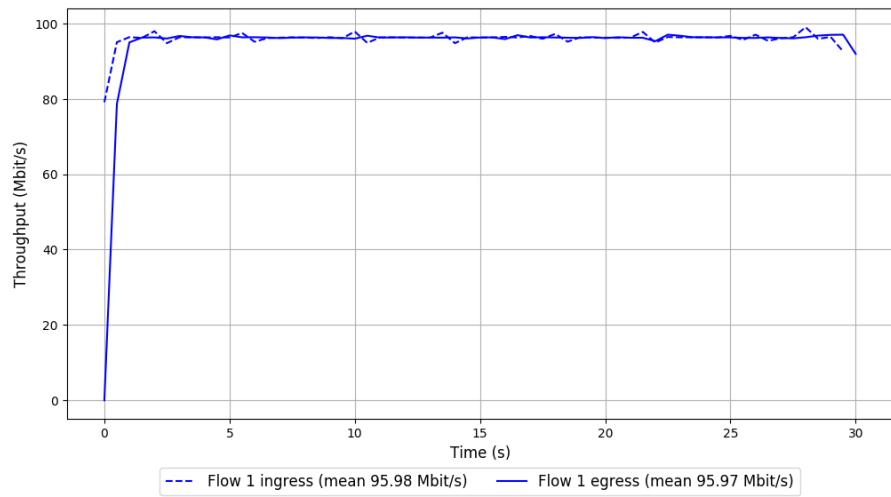


Run 2: Statistics of FillP

```
Start at: 2019-06-28 06:33:14
End at: 2019-06-28 06:33:45
Local clock offset: -7.317 ms
Remote clock offset: 0.283 ms

# Below is generated by plot.py at 2019-06-28 08:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 11.125 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 11.125 ms
Loss rate: 0.03%
```

Run 2: Report of FillP — Data Link

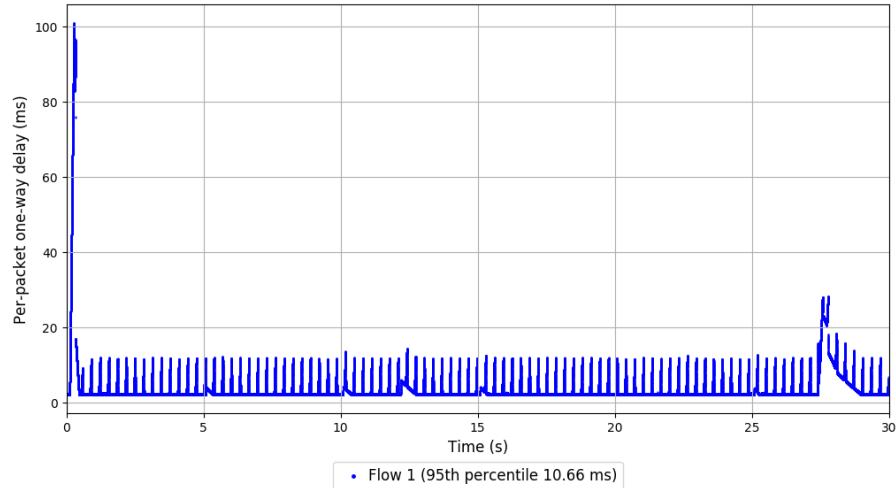
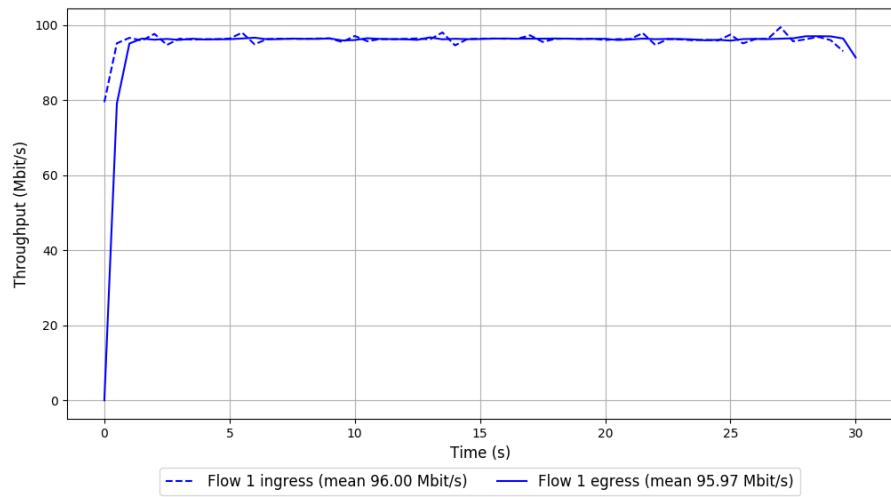


```
Run 3: Statistics of FillP
```

```
Start at: 2019-06-28 06:58:05
End at: 2019-06-28 06:58:35
Local clock offset: -6.246 ms
Remote clock offset: 0.525 ms

# Below is generated by plot.py at 2019-06-28 08:07:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 10.658 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 10.658 ms
Loss rate: 0.04%
```

Run 3: Report of FillP — Data Link

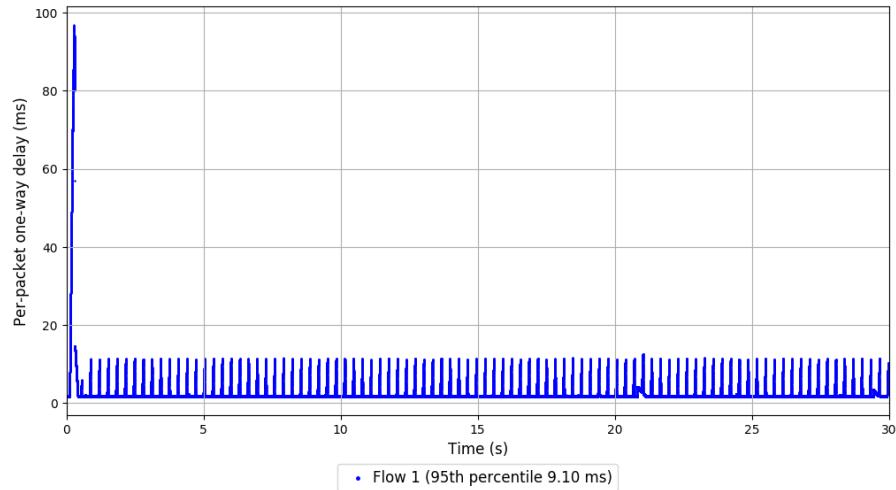
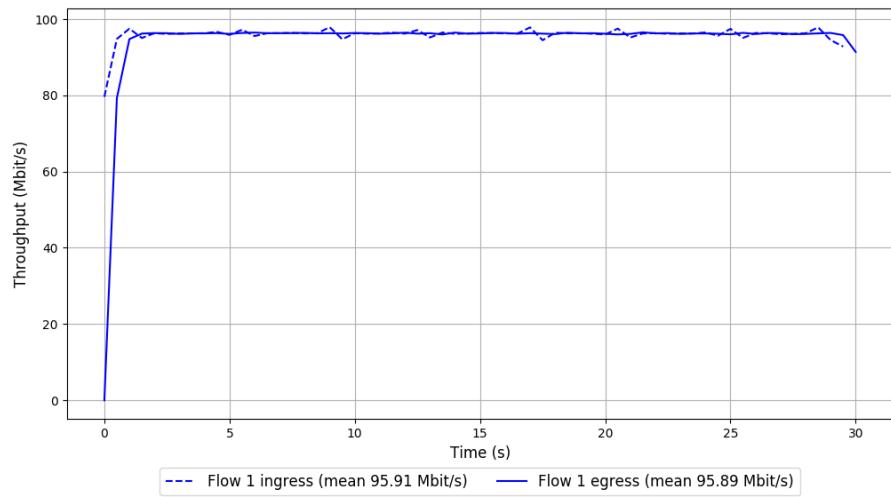


Run 4: Statistics of FillP

```
Start at: 2019-06-28 07:22:56
End at: 2019-06-28 07:23:26
Local clock offset: -6.403 ms
Remote clock offset: 0.654 ms

# Below is generated by plot.py at 2019-06-28 08:07:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 9.095 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 9.095 ms
Loss rate: 0.03%
```

Run 4: Report of FillP — Data Link

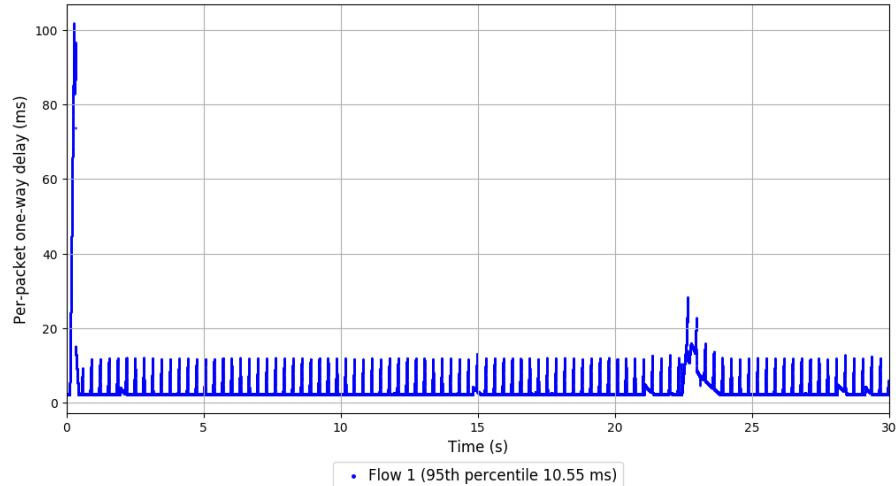
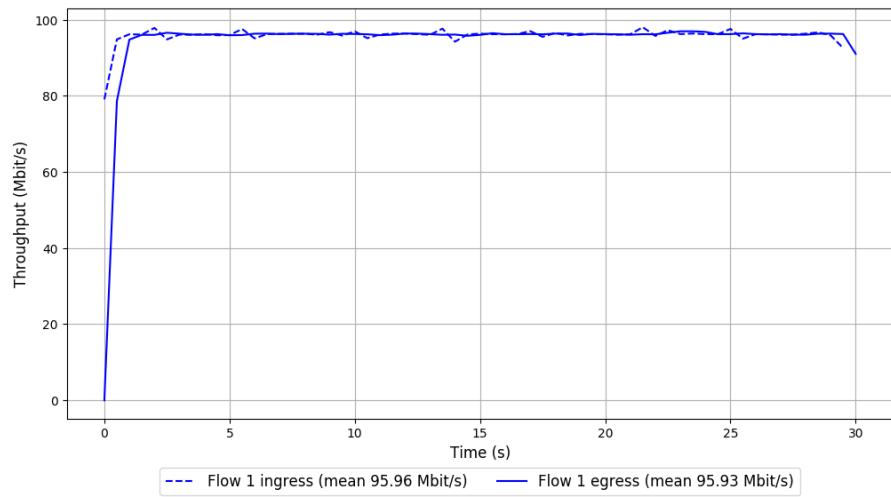


Run 5: Statistics of FillP

```
Start at: 2019-06-28 07:47:44
End at: 2019-06-28 07:48:14
Local clock offset: -6.038 ms
Remote clock offset: 0.951 ms

# Below is generated by plot.py at 2019-06-28 08:08:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 10.546 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 10.546 ms
Loss rate: 0.04%
```

Run 5: Report of FillP — Data Link

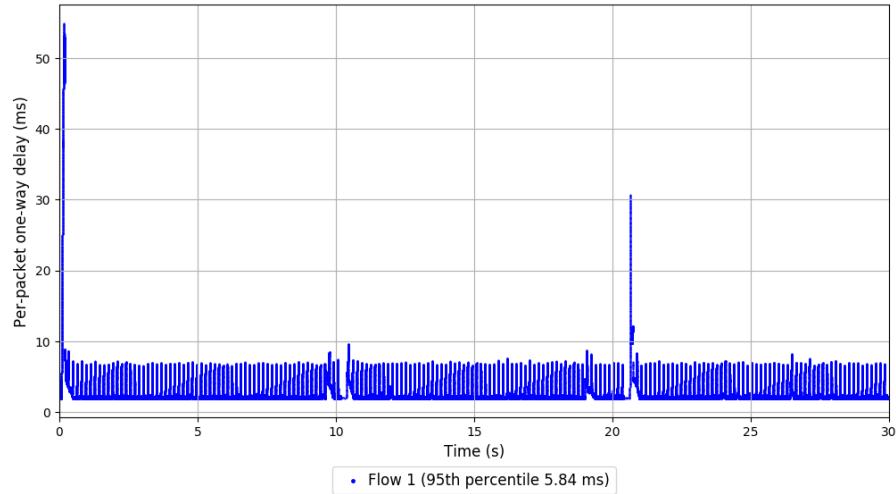
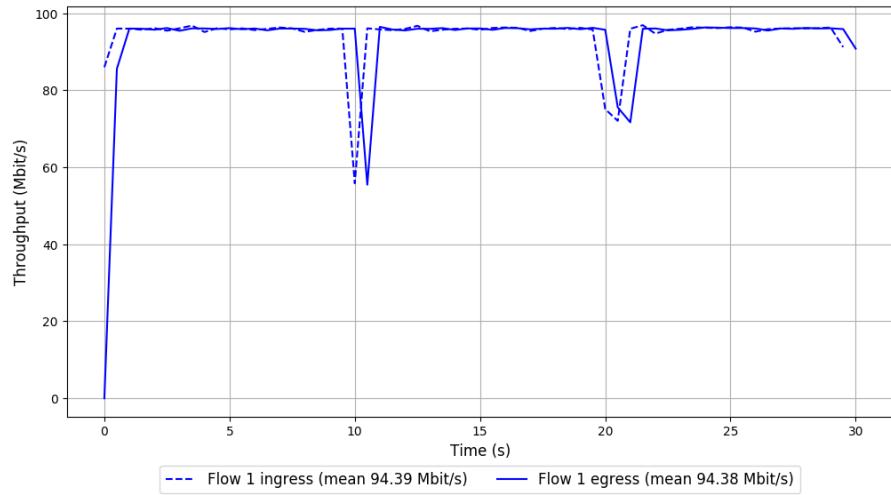


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-06-28 06:22:02
End at: 2019-06-28 06:22:32
Local clock offset: -8.029 ms
Remote clock offset: 0.153 ms

# Below is generated by plot.py at 2019-06-28 08:08:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 5.839 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 5.839 ms
Loss rate: 0.02%
```

Run 1: Report of FillP-Sheep — Data Link

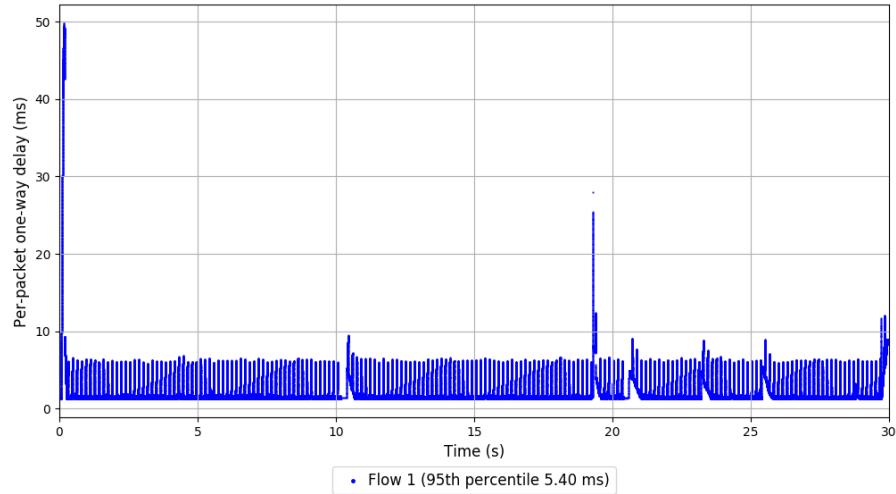
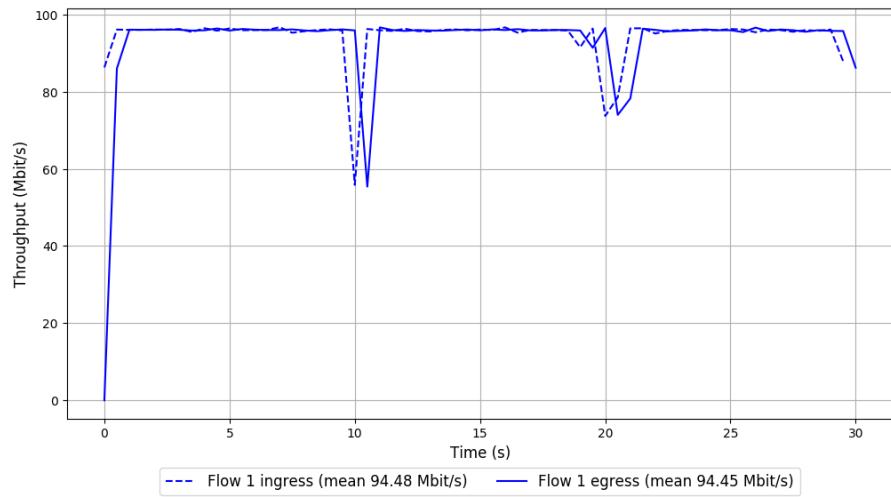


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-06-28 06:46:52
End at: 2019-06-28 06:47:22
Local clock offset: -8.511 ms
Remote clock offset: 0.412 ms

# Below is generated by plot.py at 2019-06-28 08:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 5.396 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 5.396 ms
Loss rate: 0.04%
```

Run 2: Report of FillP-Sheep — Data Link

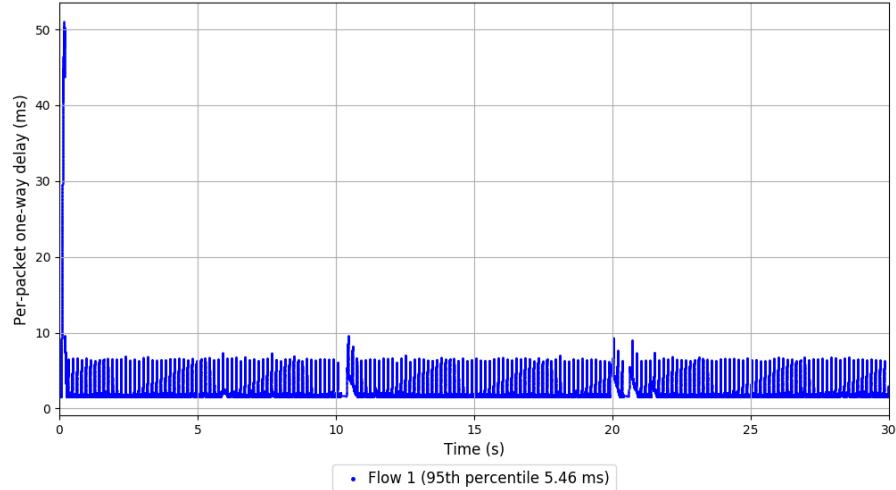
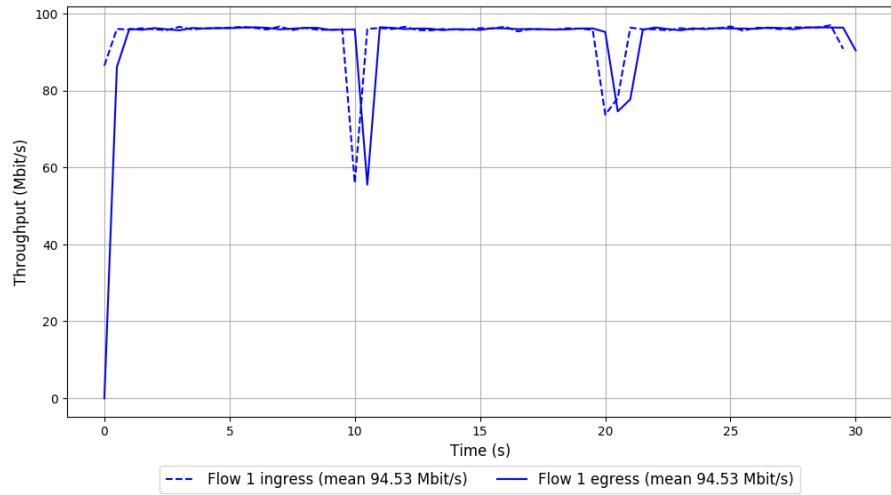


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-06-28 07:11:42
End at: 2019-06-28 07:12:12
Local clock offset: -6.435 ms
Remote clock offset: 0.671 ms

# Below is generated by plot.py at 2019-06-28 08:08:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.53 Mbit/s
95th percentile per-packet one-way delay: 5.457 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 94.53 Mbit/s
95th percentile per-packet one-way delay: 5.457 ms
Loss rate: 0.03%
```

Run 3: Report of FillP-Sheep — Data Link

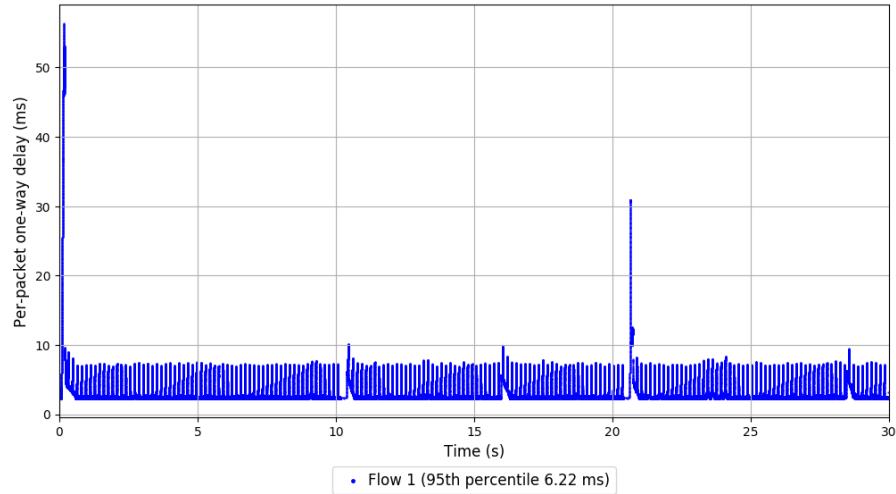
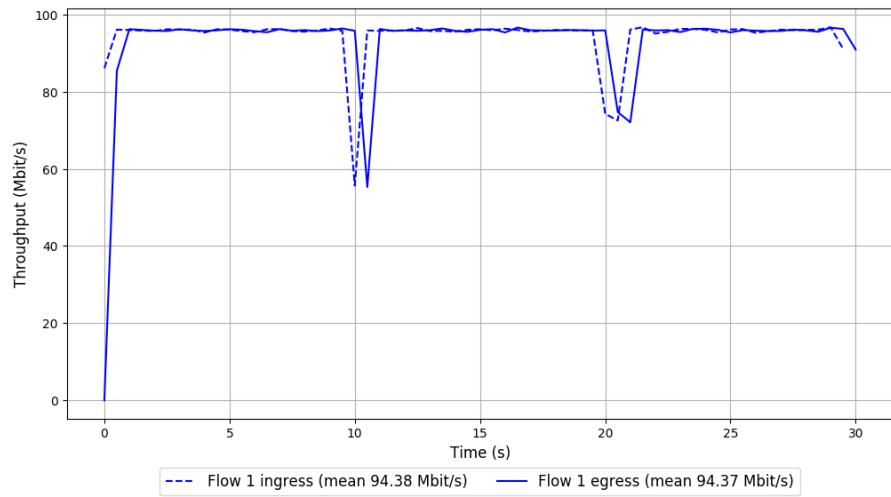


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-06-28 07:36:31
End at: 2019-06-28 07:37:01
Local clock offset: -5.994 ms
Remote clock offset: 0.821 ms

# Below is generated by plot.py at 2019-06-28 08:08:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 6.222 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 6.222 ms
Loss rate: 0.02%
```

Run 4: Report of FillP-Sheep — Data Link

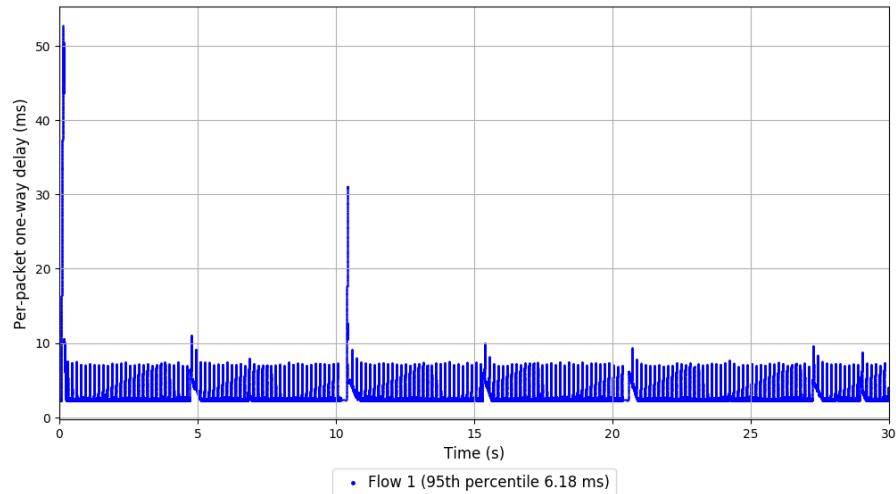
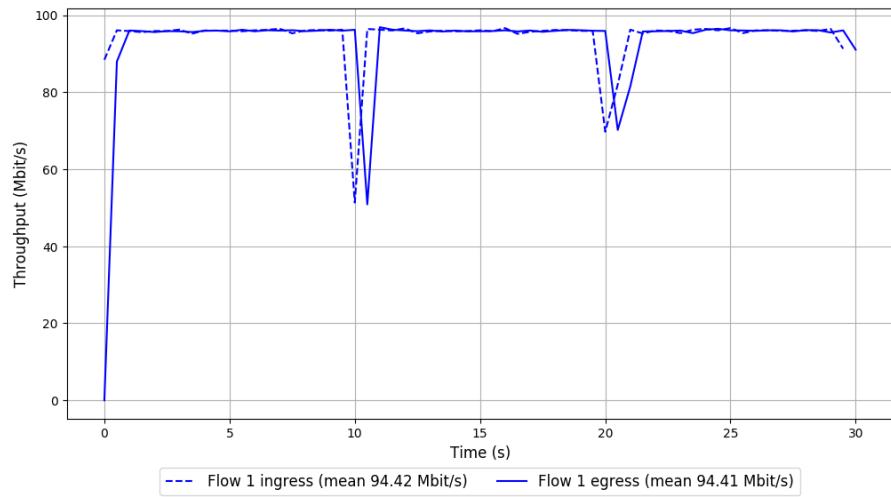


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-06-28 08:01:25
End at: 2019-06-28 08:01:55
Local clock offset: -5.478 ms
Remote clock offset: 0.858 ms

# Below is generated by plot.py at 2019-06-28 08:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.41 Mbit/s
95th percentile per-packet one-way delay: 6.179 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 94.41 Mbit/s
95th percentile per-packet one-way delay: 6.179 ms
Loss rate: 0.03%
```

Run 5: Report of FillP-Sheep — Data Link

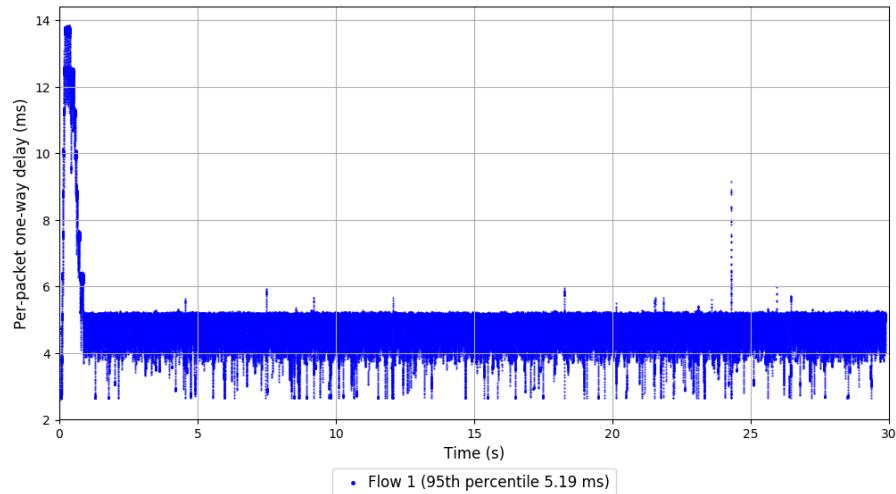
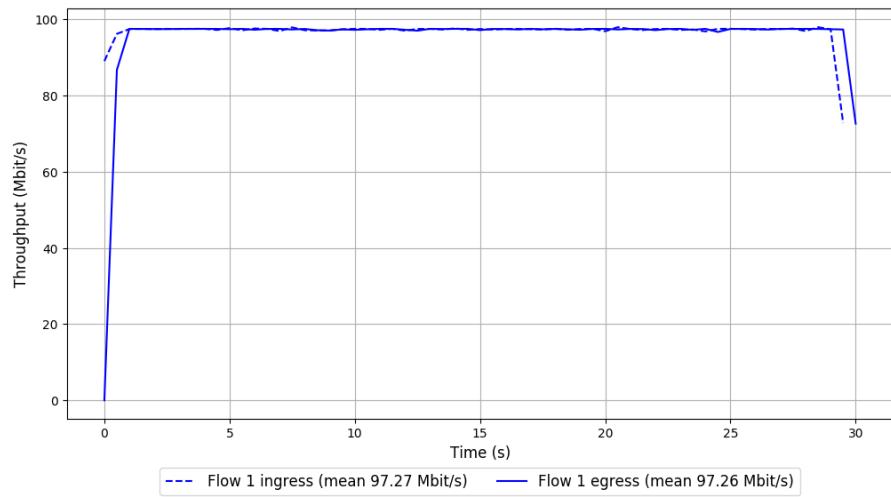


Run 1: Statistics of Indigo

```
Start at: 2019-06-28 06:05:07
End at: 2019-06-28 06:05:37
Local clock offset: -7.146 ms
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2019-06-28 08:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.26 Mbit/s
95th percentile per-packet one-way delay: 5.189 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.26 Mbit/s
95th percentile per-packet one-way delay: 5.189 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo — Data Link

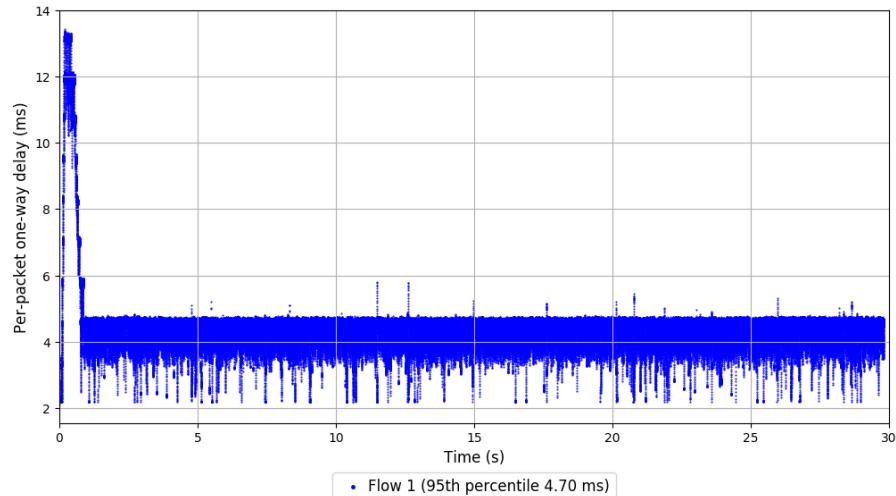
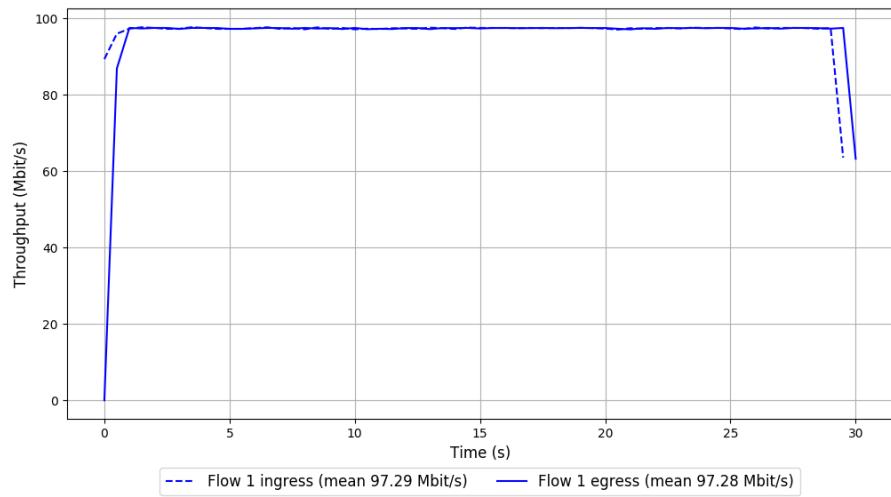


Run 2: Statistics of Indigo

```
Start at: 2019-06-28 06:29:52
End at: 2019-06-28 06:30:22
Local clock offset: -8.059 ms
Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2019-06-28 08:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.28 Mbit/s
95th percentile per-packet one-way delay: 4.702 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.28 Mbit/s
95th percentile per-packet one-way delay: 4.702 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo — Data Link

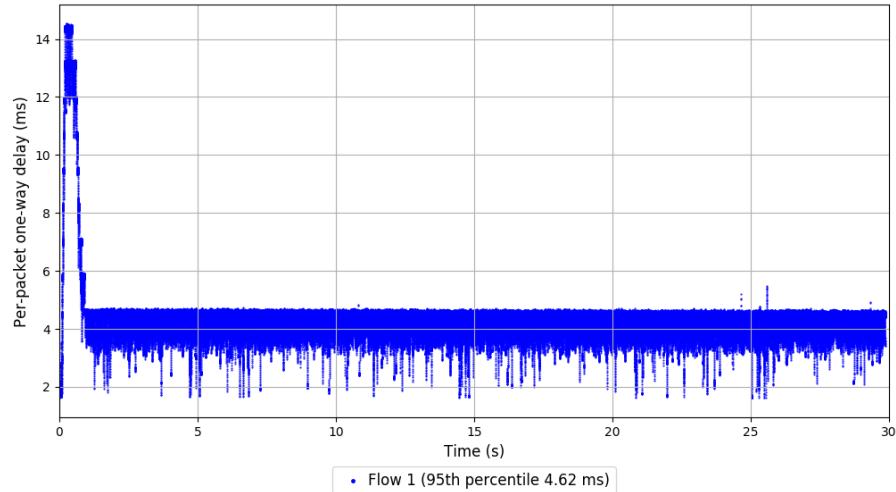
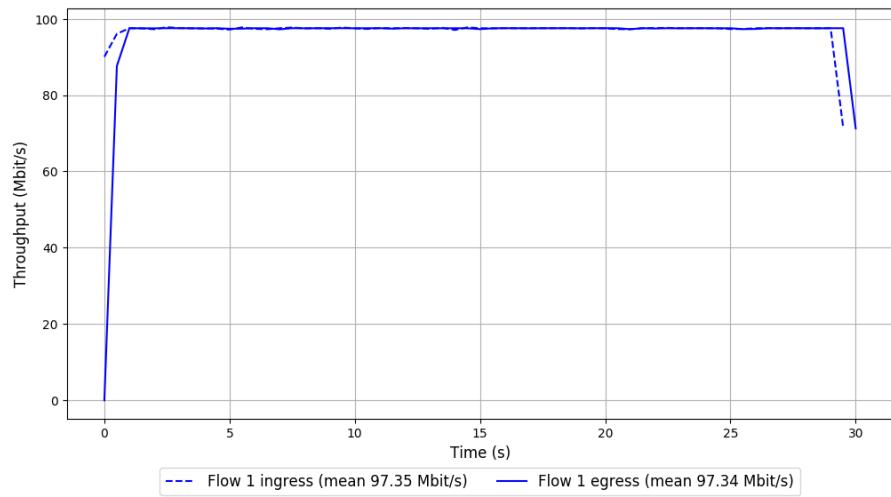


Run 3: Statistics of Indigo

```
Start at: 2019-06-28 06:54:42
End at: 2019-06-28 06:55:13
Local clock offset: -7.129 ms
Remote clock offset: 0.448 ms

# Below is generated by plot.py at 2019-06-28 08:09:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 4.619 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 4.619 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo — Data Link

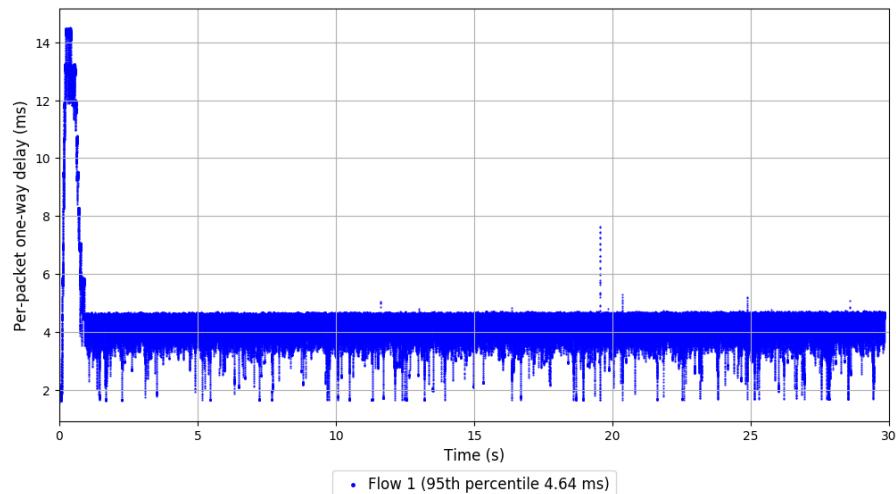
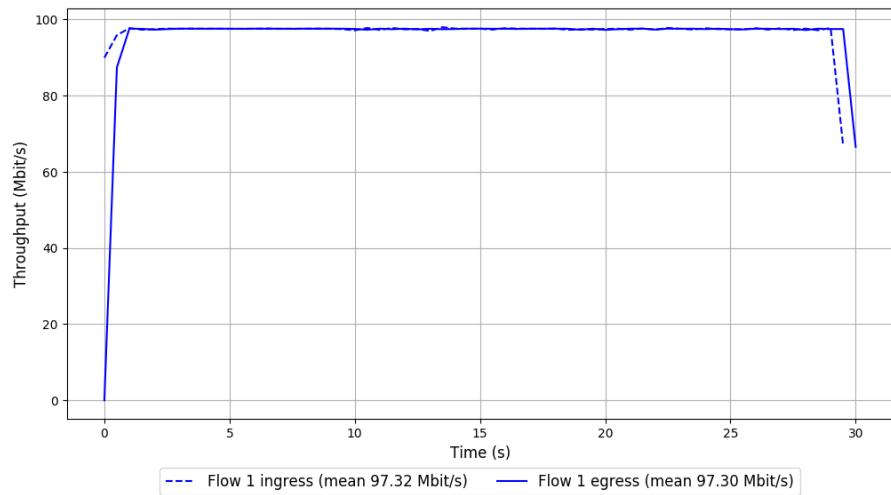


Run 4: Statistics of Indigo

```
Start at: 2019-06-28 07:19:33
End at: 2019-06-28 07:20:03
Local clock offset: -6.127 ms
Remote clock offset: 0.736 ms

# Below is generated by plot.py at 2019-06-28 08:09:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 4.636 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 4.636 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo — Data Link

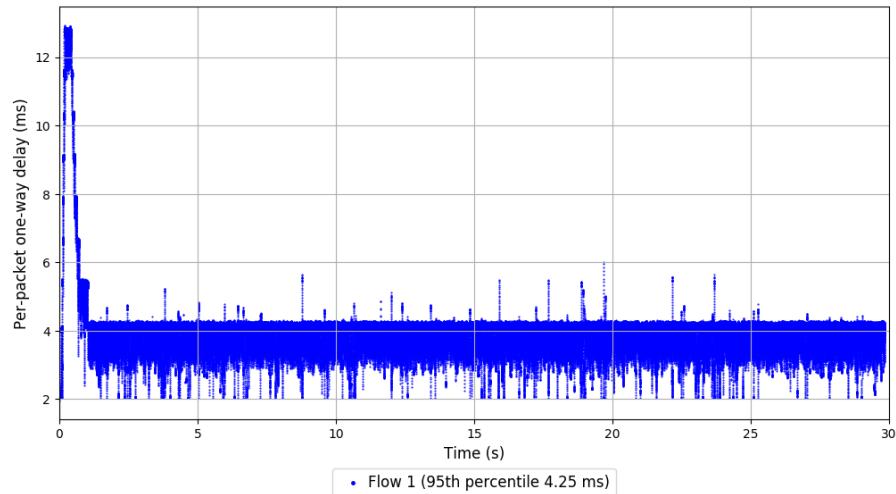
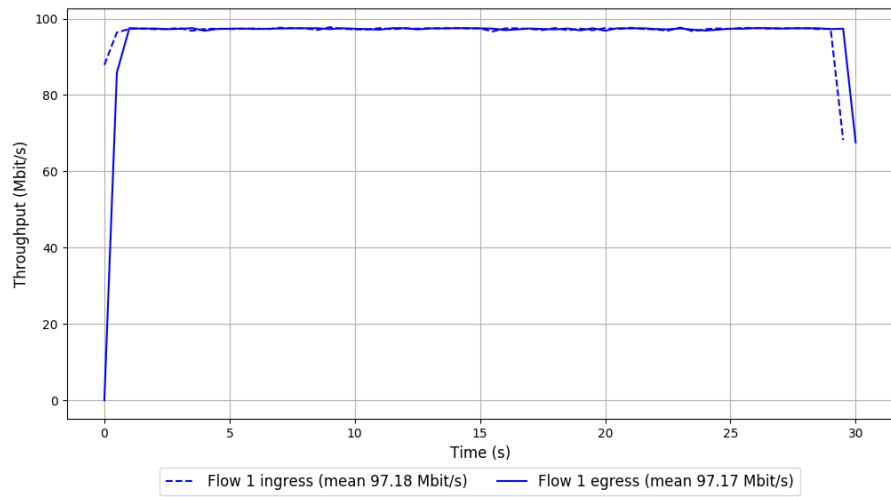


Run 5: Statistics of Indigo

```
Start at: 2019-06-28 07:44:21
End at: 2019-06-28 07:44:51
Local clock offset: -6.816 ms
Remote clock offset: 0.914 ms

# Below is generated by plot.py at 2019-06-28 08:09:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 4.249 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 4.249 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo — Data Link

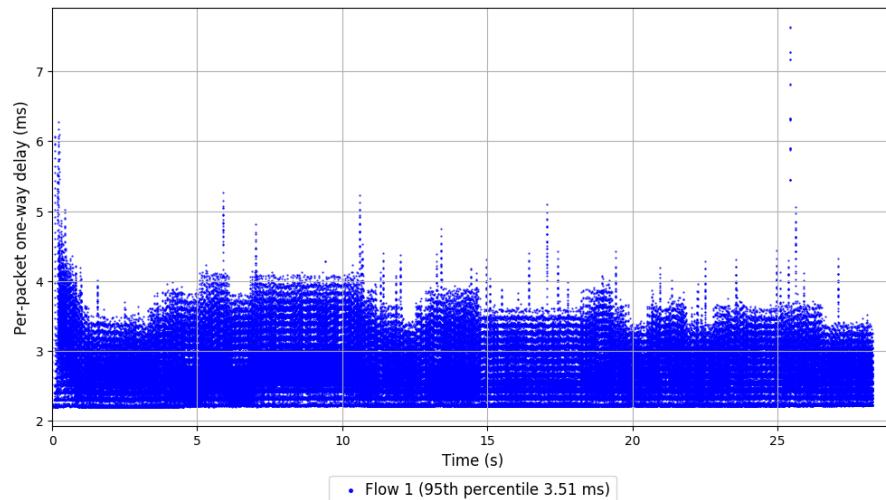
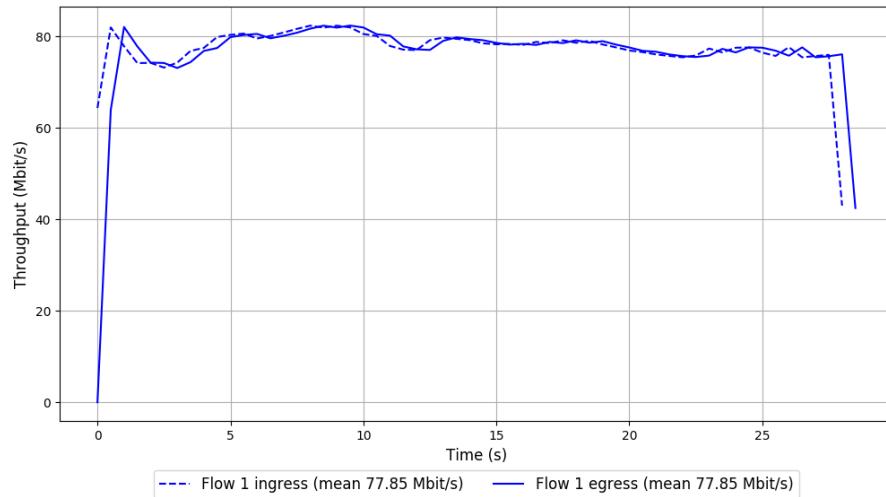


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-06-28 05:58:25
End at: 2019-06-28 05:58:55
Local clock offset: -6.873 ms
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2019-06-28 08:09:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.85 Mbit/s
95th percentile per-packet one-way delay: 3.509 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 77.85 Mbit/s
95th percentile per-packet one-way delay: 3.509 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesC3 — Data Link

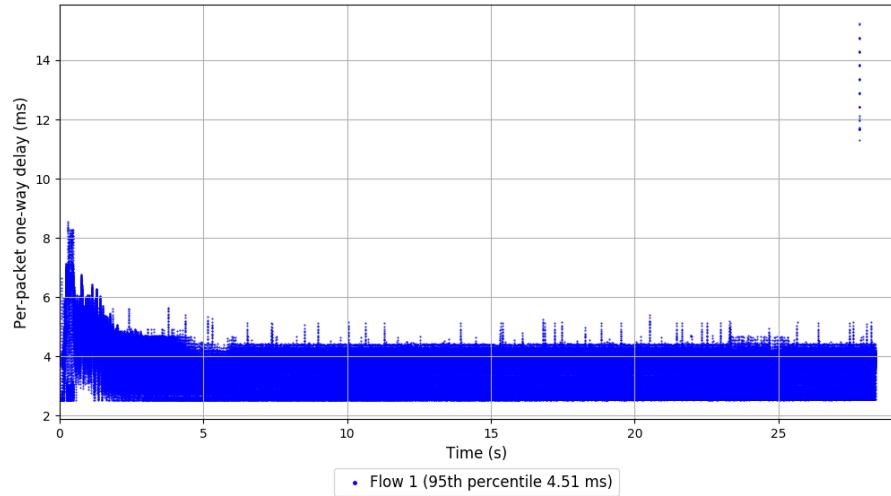
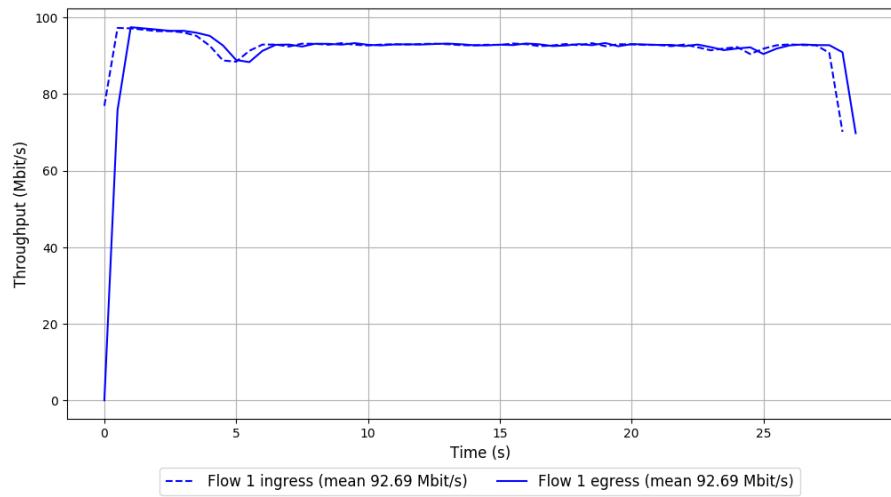


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-06-28 06:23:09
End at: 2019-06-28 06:23:39
Local clock offset: -7.19 ms
Remote clock offset: 0.085 ms

# Below is generated by plot.py at 2019-06-28 08:09:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.69 Mbit/s
95th percentile per-packet one-way delay: 4.510 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 92.69 Mbit/s
95th percentile per-packet one-way delay: 4.510 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesC3 — Data Link

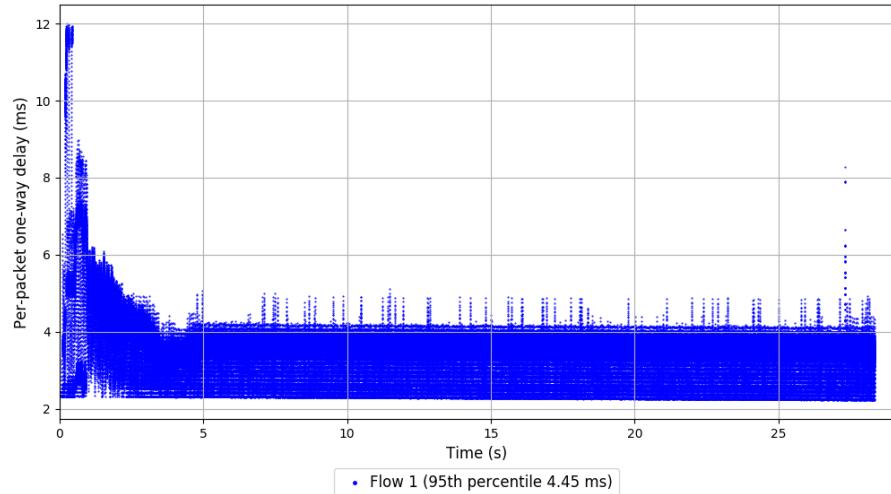
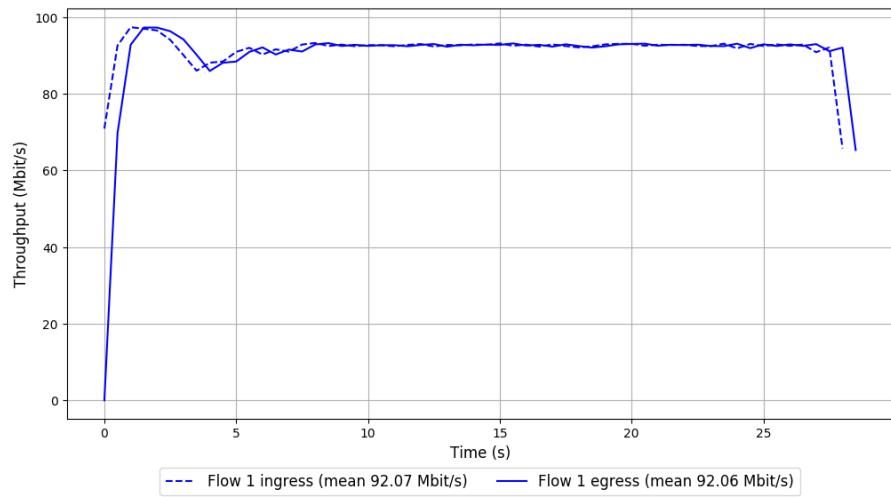


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-06-28 06:48:00
End at: 2019-06-28 06:48:30
Local clock offset: -7.474 ms
Remote clock offset: 0.43 ms

# Below is generated by plot.py at 2019-06-28 08:09:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.06 Mbit/s
95th percentile per-packet one-way delay: 4.454 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 92.06 Mbit/s
95th percentile per-packet one-way delay: 4.454 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesC3 — Data Link

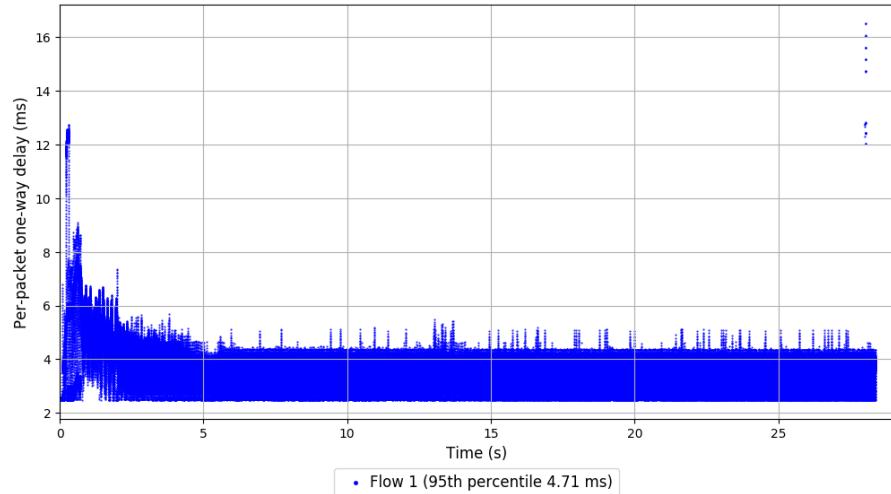
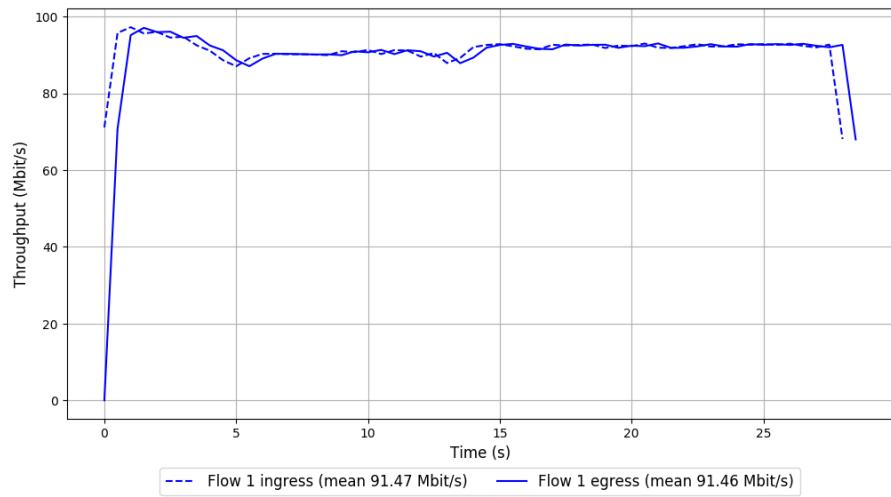


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-06-28 07:12:49
End at: 2019-06-28 07:13:19
Local clock offset: -5.312 ms
Remote clock offset: 0.53 ms

# Below is generated by plot.py at 2019-06-28 08:09:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.46 Mbit/s
95th percentile per-packet one-way delay: 4.715 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.46 Mbit/s
95th percentile per-packet one-way delay: 4.715 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesC3 — Data Link

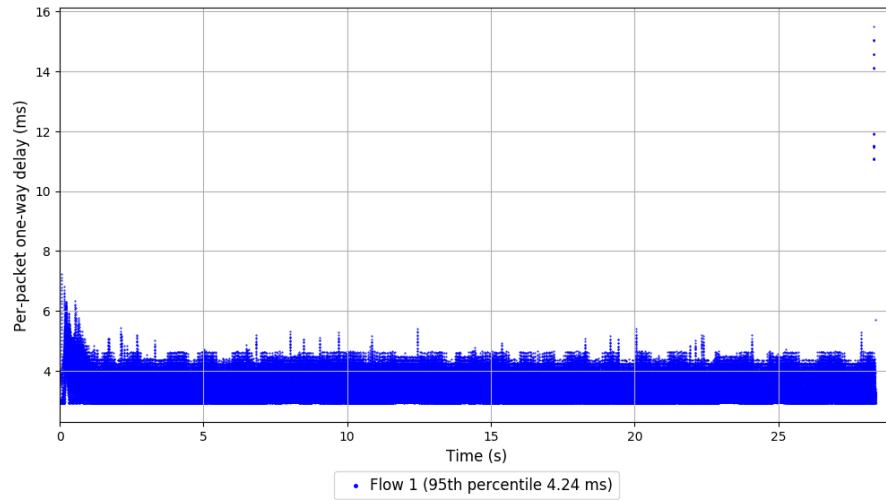
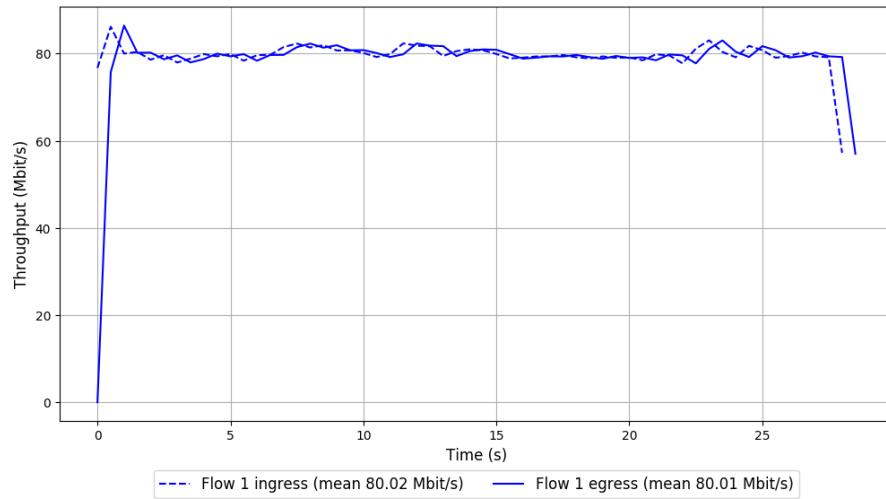


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-06-28 07:37:39
End at: 2019-06-28 07:38:09
Local clock offset: -6.026 ms
Remote clock offset: 0.747 ms

# Below is generated by plot.py at 2019-06-28 08:09:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.01 Mbit/s
95th percentile per-packet one-way delay: 4.240 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 80.01 Mbit/s
95th percentile per-packet one-way delay: 4.240 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesC3 — Data Link

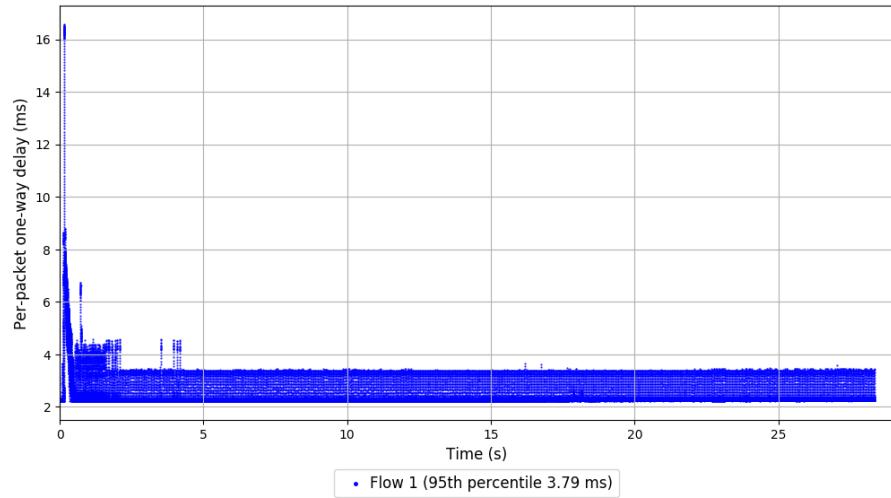
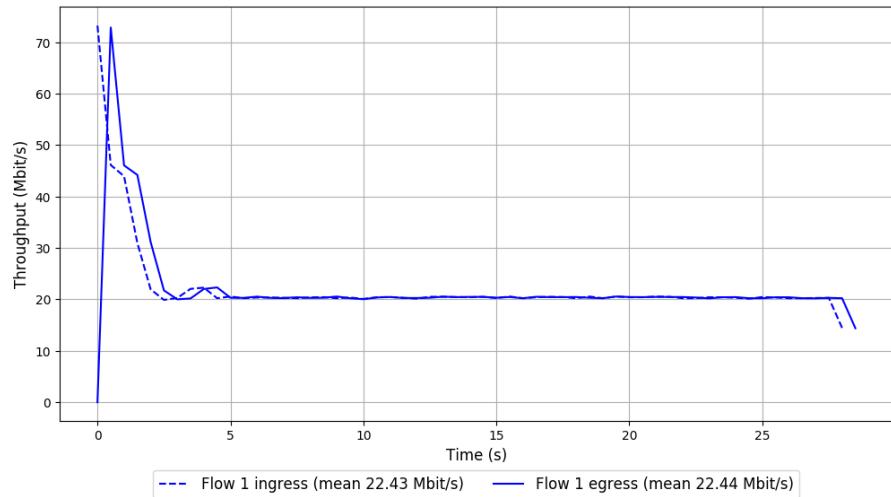


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-06-28 06:01:51
End at: 2019-06-28 06:02:21
Local clock offset: -6.949 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-06-28 08:09:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.44 Mbit/s
95th percentile per-packet one-way delay: 3.790 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 22.44 Mbit/s
95th percentile per-packet one-way delay: 3.790 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesC5 — Data Link

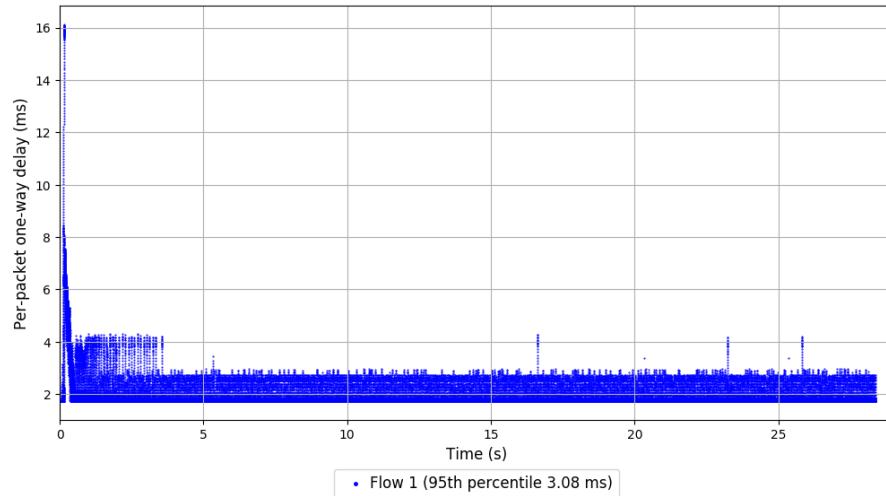
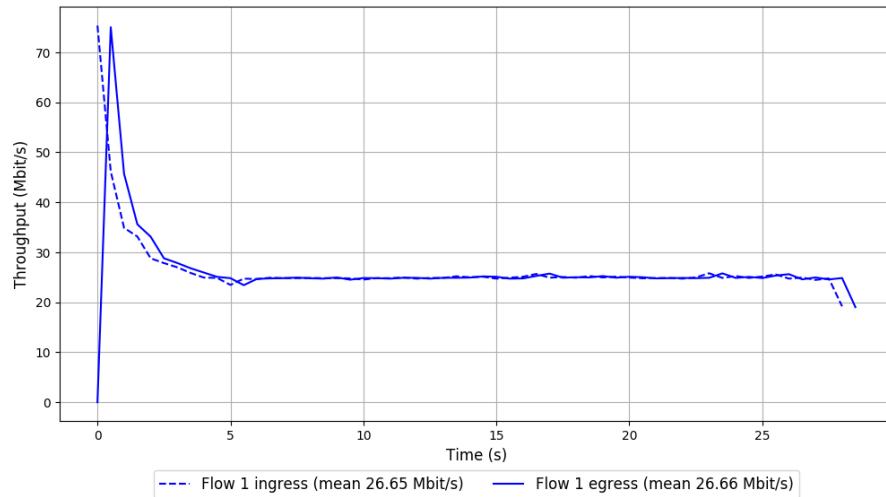


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-06-28 06:26:36
End at: 2019-06-28 06:27:06
Local clock offset: -8.034 ms
Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2019-06-28 08:09:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.66 Mbit/s
95th percentile per-packet one-way delay: 3.084 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 26.66 Mbit/s
95th percentile per-packet one-way delay: 3.084 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesC5 — Data Link

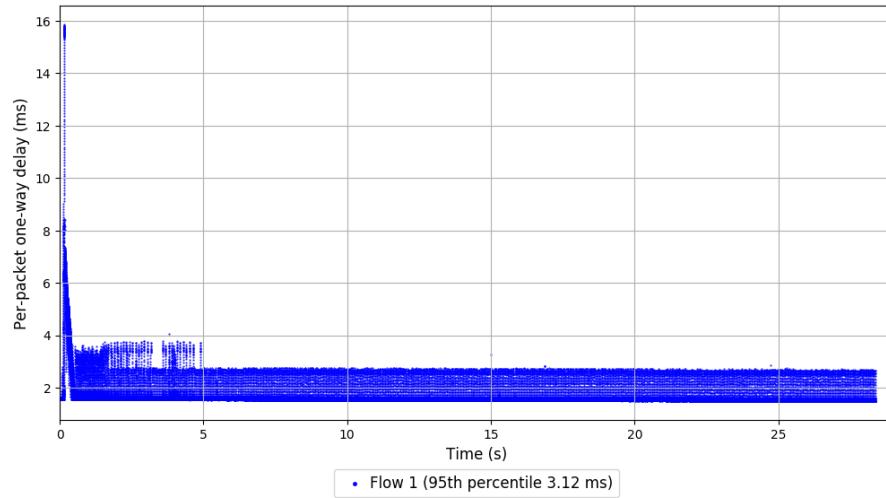
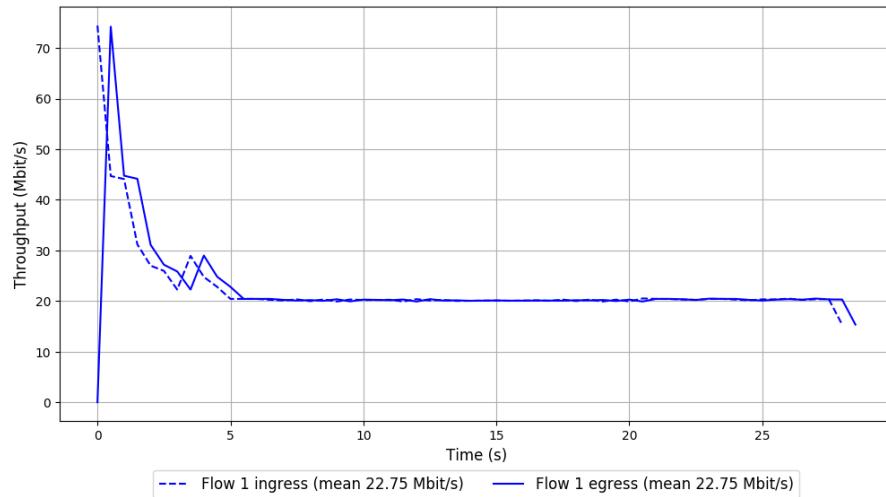


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-06-28 06:51:27
End at: 2019-06-28 06:51:57
Local clock offset: -7.611 ms
Remote clock offset: 0.451 ms

# Below is generated by plot.py at 2019-06-28 08:09:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.75 Mbit/s
95th percentile per-packet one-way delay: 3.116 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 22.75 Mbit/s
95th percentile per-packet one-way delay: 3.116 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesC5 — Data Link

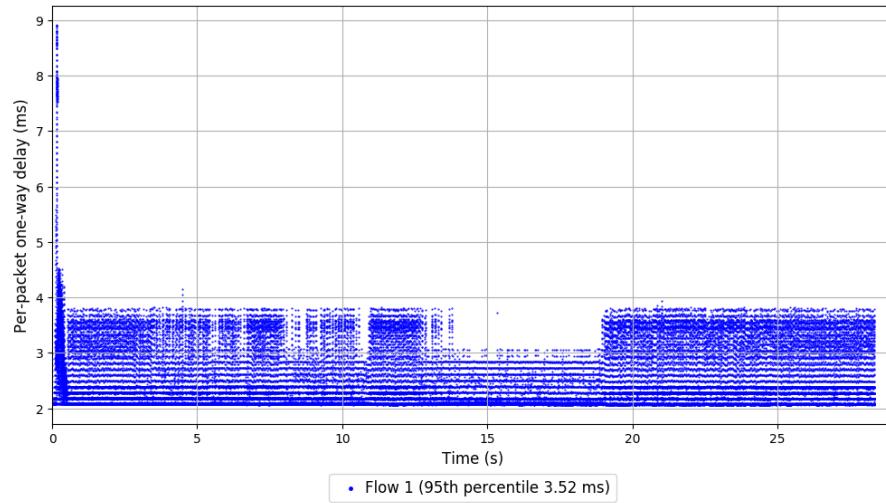
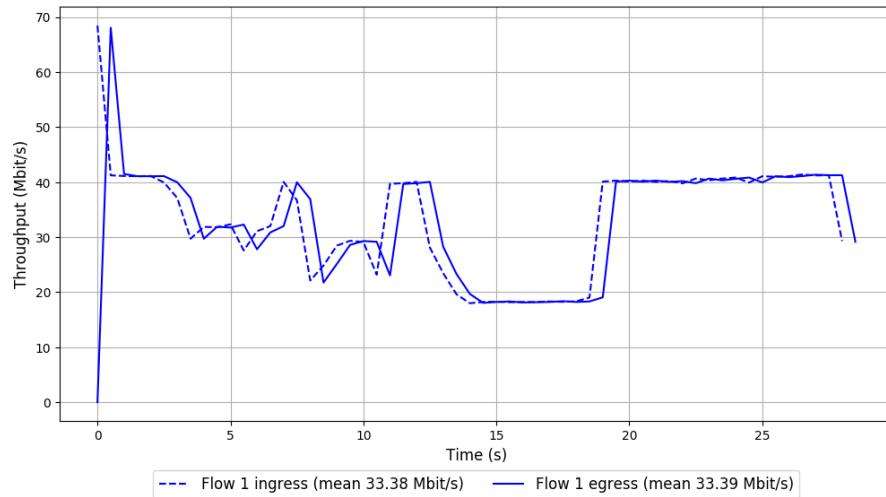


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-06-28 07:16:16
End at: 2019-06-28 07:16:46
Local clock offset: -5.99 ms
Remote clock offset: 0.66 ms

# Below is generated by plot.py at 2019-06-28 08:09:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.39 Mbit/s
95th percentile per-packet one-way delay: 3.519 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 33.39 Mbit/s
95th percentile per-packet one-way delay: 3.519 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC5 — Data Link

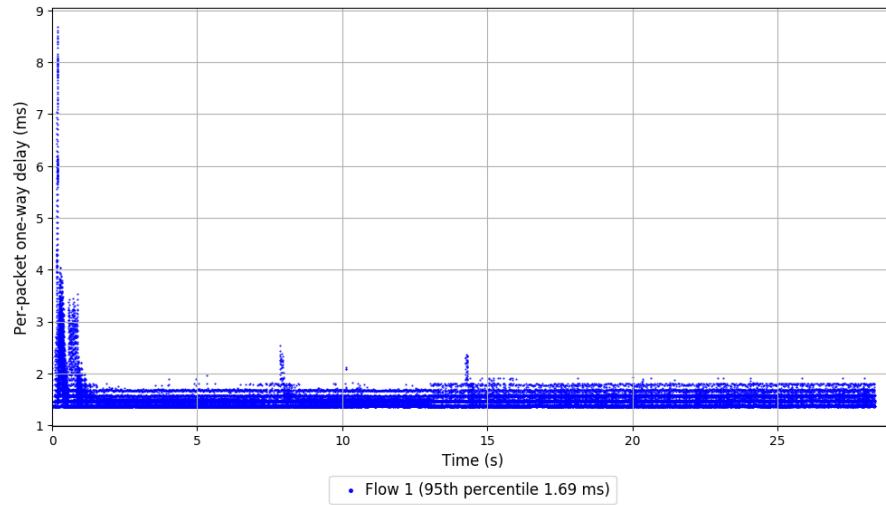
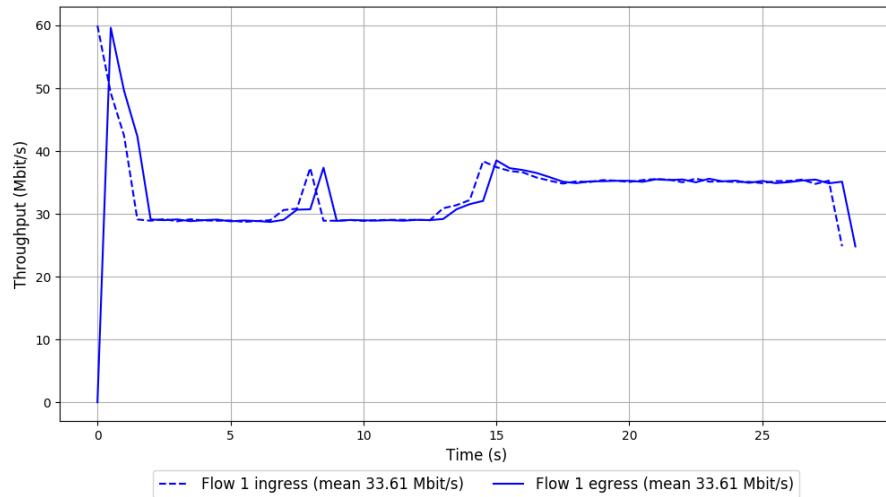


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-06-28 07:41:05
End at: 2019-06-28 07:41:35
Local clock offset: -7.059 ms
Remote clock offset: 0.871 ms

# Below is generated by plot.py at 2019-06-28 08:09:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.61 Mbit/s
95th percentile per-packet one-way delay: 1.686 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 33.61 Mbit/s
95th percentile per-packet one-way delay: 1.686 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesC5 — Data Link

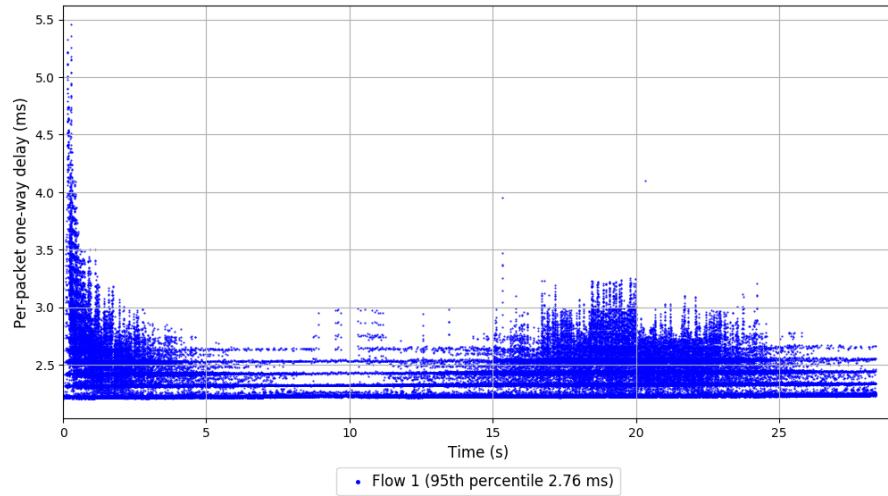
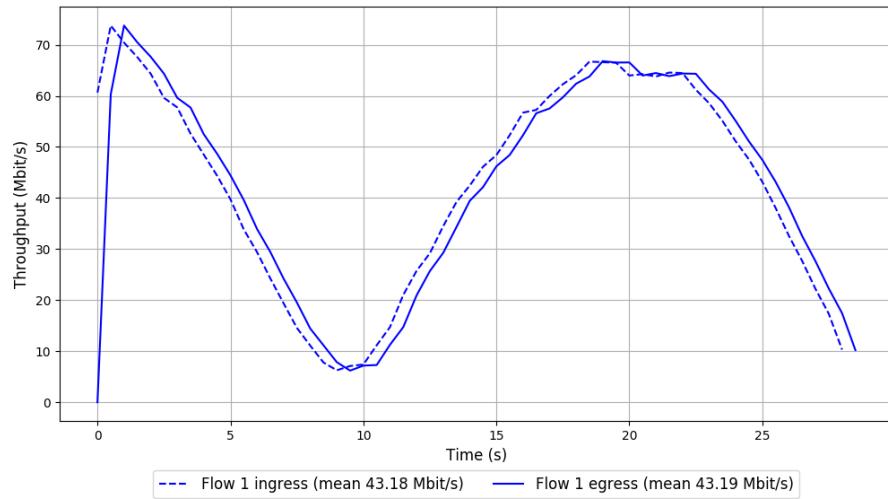


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-06-28 06:02:56
End at: 2019-06-28 06:03:26
Local clock offset: -6.994 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-06-28 08:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.19 Mbit/s
95th percentile per-packet one-way delay: 2.762 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.19 Mbit/s
95th percentile per-packet one-way delay: 2.762 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link

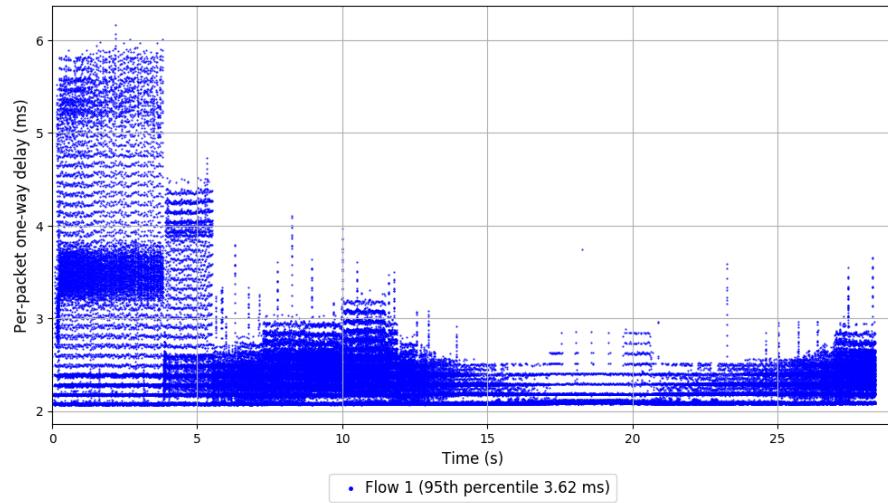
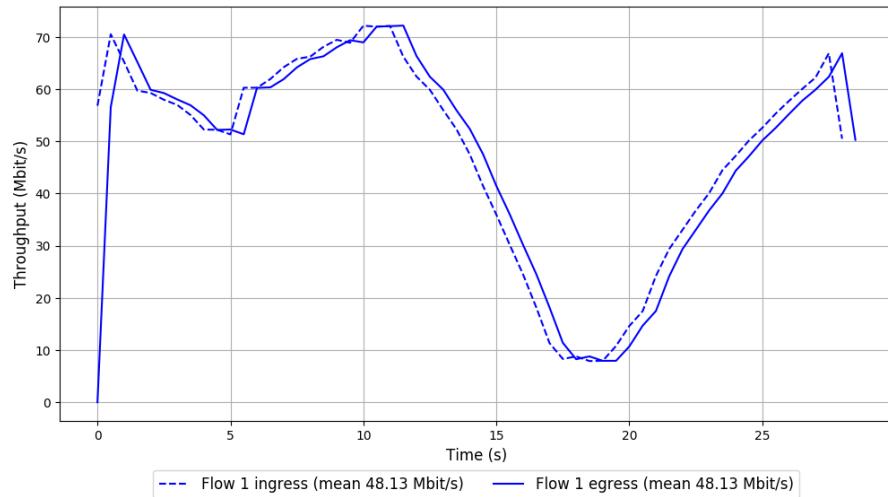


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-06-28 06:27:41
End at: 2019-06-28 06:28:11
Local clock offset: -8.04 ms
Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2019-06-28 08:10:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.13 Mbit/s
95th percentile per-packet one-way delay: 3.622 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 48.13 Mbit/s
95th percentile per-packet one-way delay: 3.622 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesD — Data Link

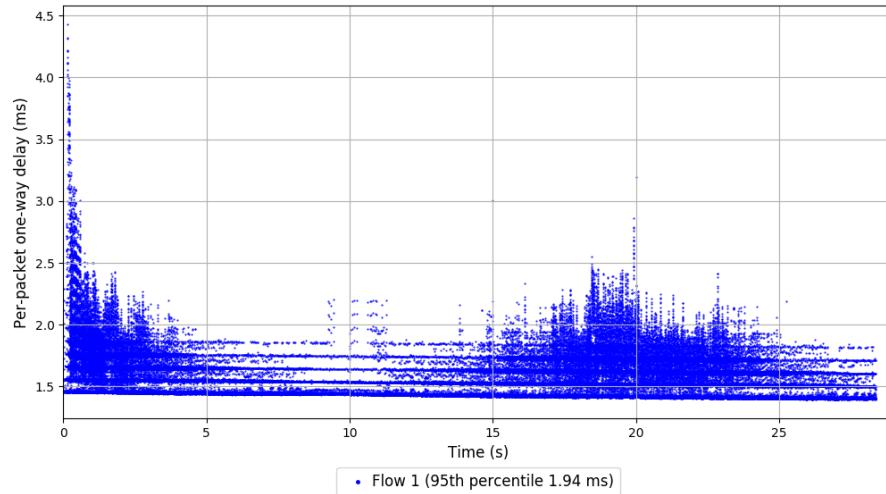
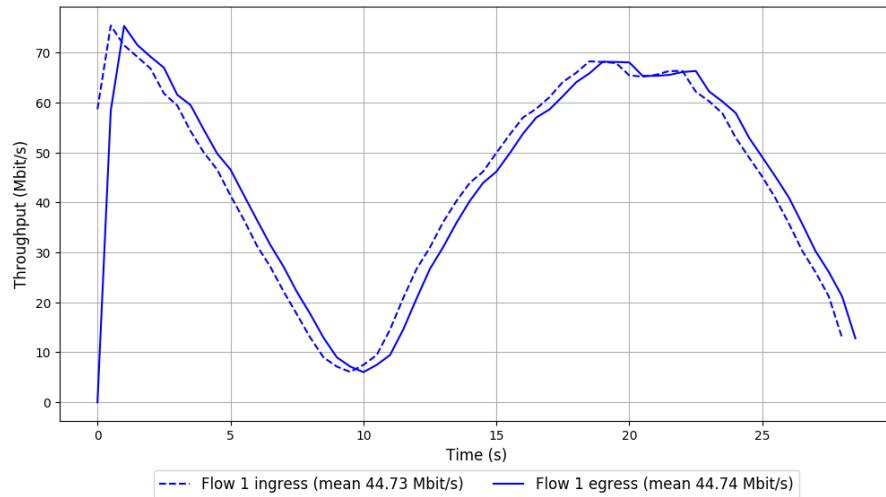


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-06-28 06:52:32
End at: 2019-06-28 06:53:02
Local clock offset: -7.494 ms
Remote clock offset: 0.526 ms

# Below is generated by plot.py at 2019-06-28 08:10:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.74 Mbit/s
95th percentile per-packet one-way delay: 1.936 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 44.74 Mbit/s
95th percentile per-packet one-way delay: 1.936 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesD — Data Link

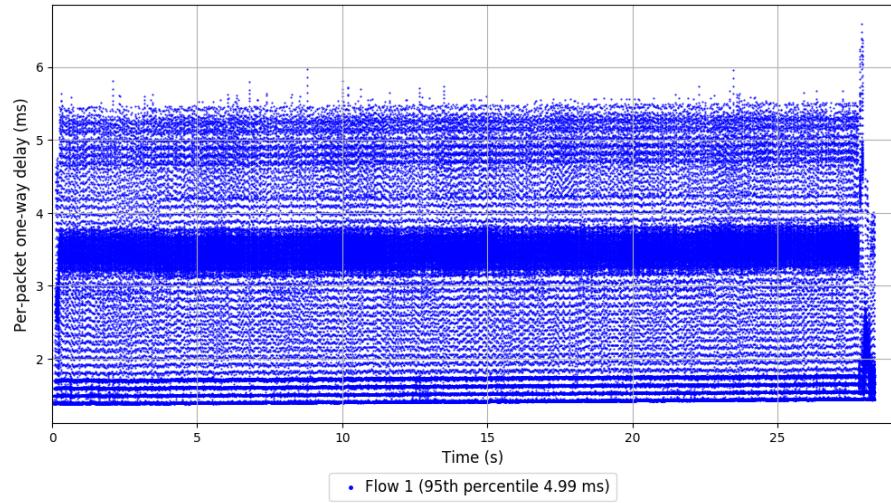
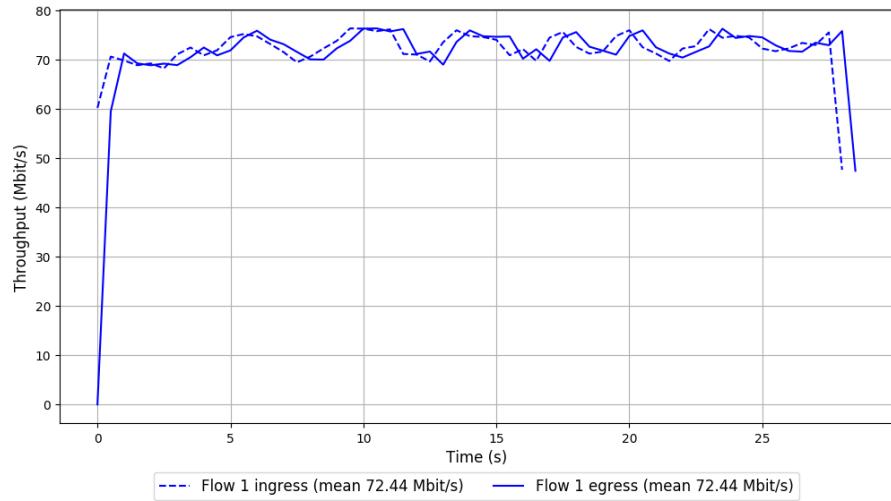


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-06-28 07:17:22
End at: 2019-06-28 07:17:52
Local clock offset: -6.18 ms
Remote clock offset: 0.676 ms

# Below is generated by plot.py at 2019-06-28 08:10:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.44 Mbit/s
95th percentile per-packet one-way delay: 4.994 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 72.44 Mbit/s
95th percentile per-packet one-way delay: 4.994 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesD — Data Link

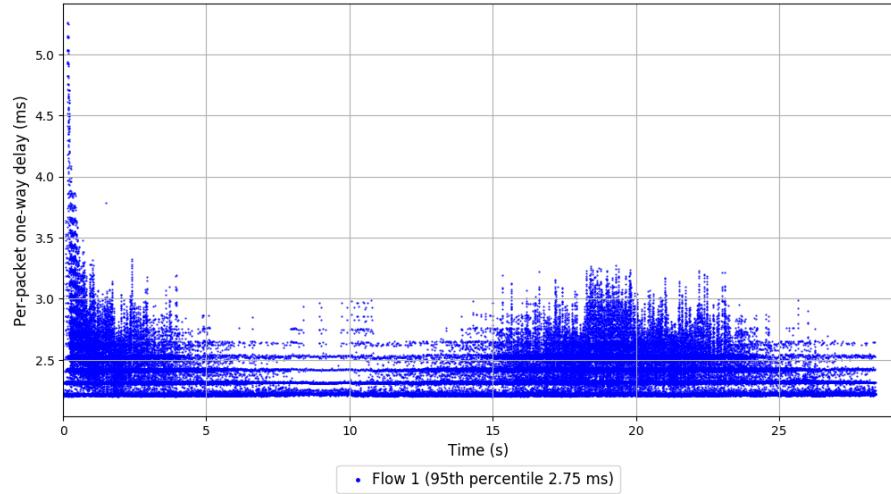
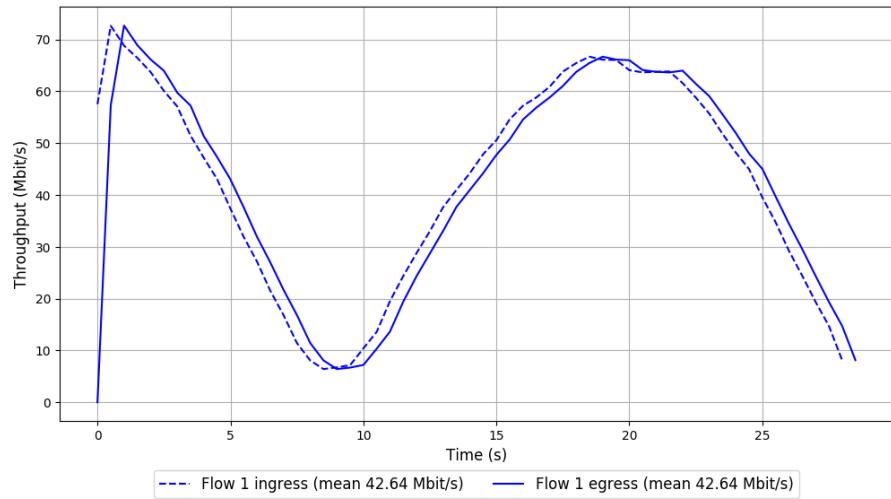


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-06-28 07:42:11
End at: 2019-06-28 07:42:41
Local clock offset: -6.259 ms
Remote clock offset: 0.834 ms

# Below is generated by plot.py at 2019-06-28 08:10:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.64 Mbit/s
95th percentile per-packet one-way delay: 2.753 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.64 Mbit/s
95th percentile per-packet one-way delay: 2.753 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesD — Data Link

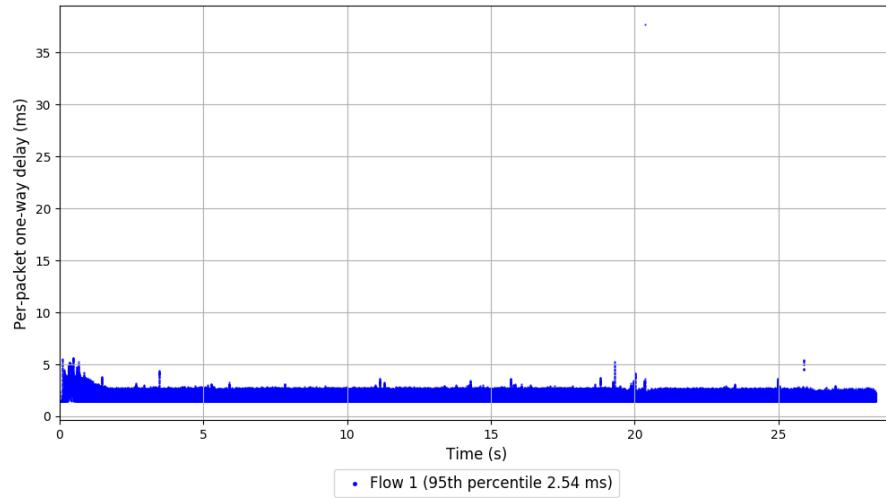
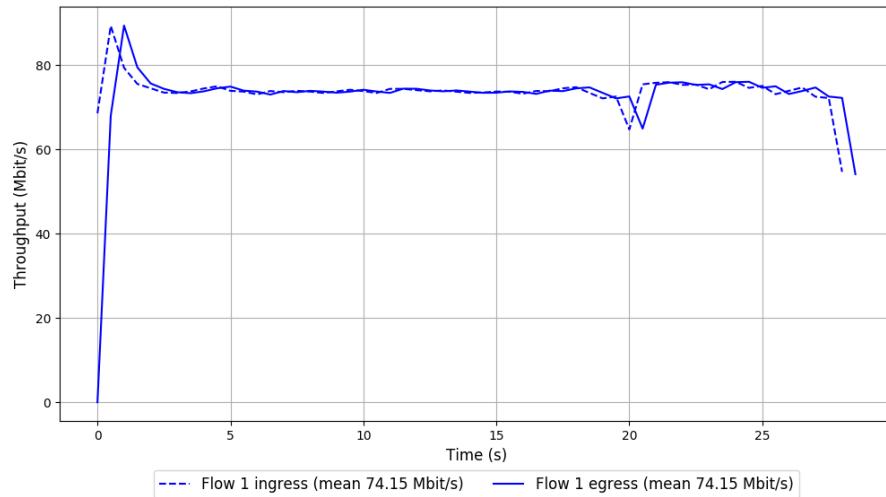


```
Run 1: Statistics of Indigo-MusesT
```

```
Start at: 2019-06-28 06:07:22
End at: 2019-06-28 06:07:52
Local clock offset: -7.917 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-06-28 08:10:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.15 Mbit/s
95th percentile per-packet one-way delay: 2.535 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 74.15 Mbit/s
95th percentile per-packet one-way delay: 2.535 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesT — Data Link

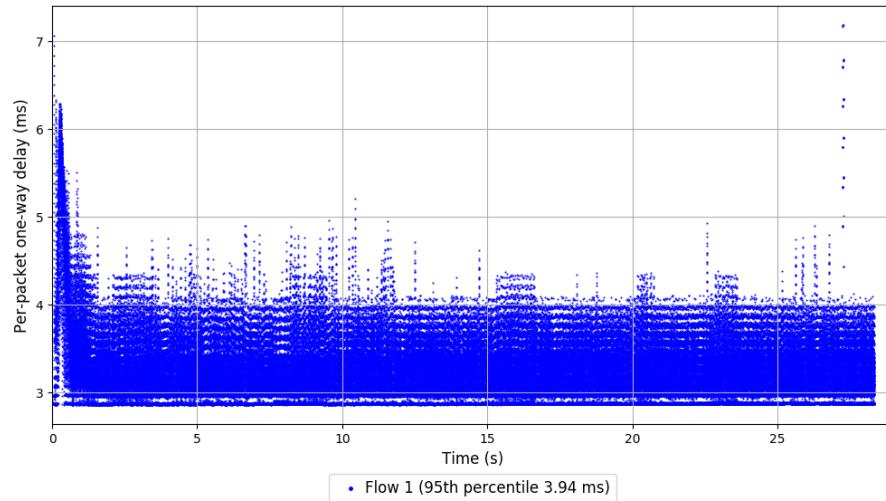
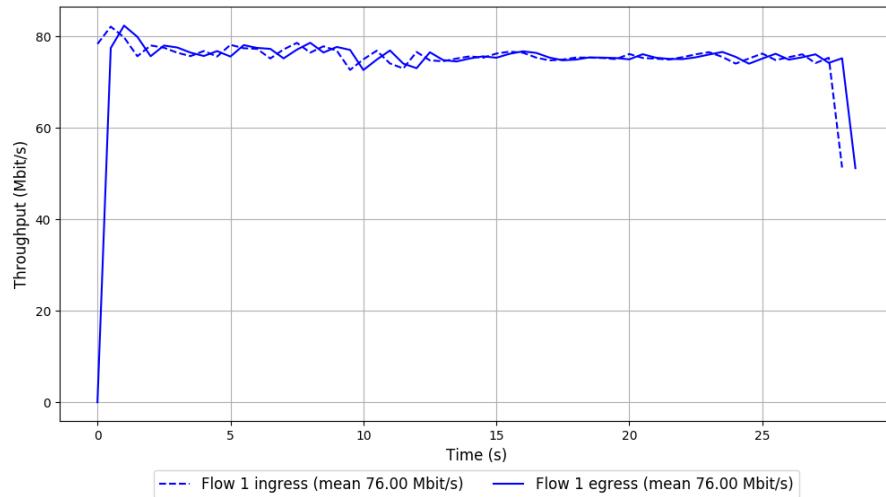


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-06-28 06:32:07
End at: 2019-06-28 06:32:37
Local clock offset: -7.353 ms
Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2019-06-28 08:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.00 Mbit/s
95th percentile per-packet one-way delay: 3.942 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 76.00 Mbit/s
95th percentile per-packet one-way delay: 3.942 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesT — Data Link

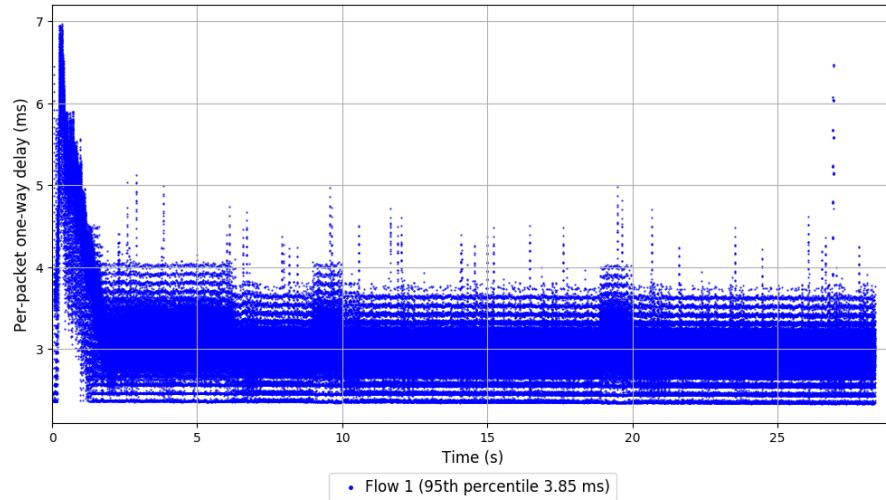
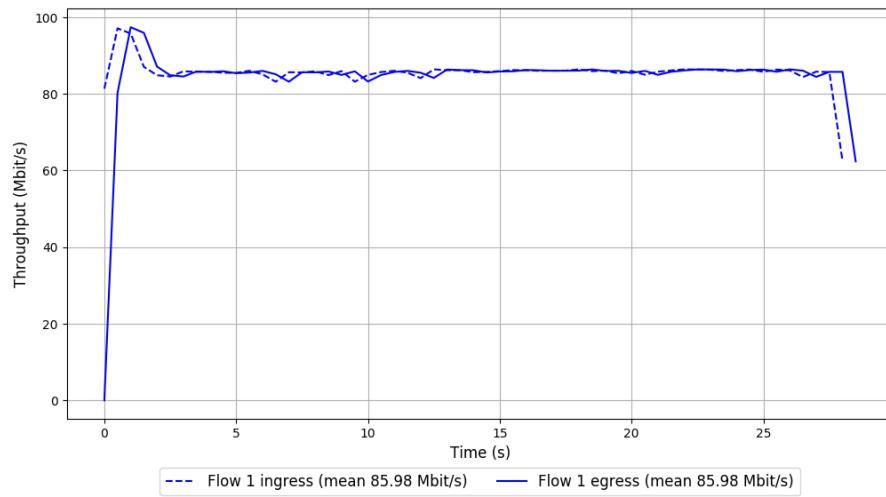


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-06-28 06:56:58
End at: 2019-06-28 06:57:28
Local clock offset: -6.185 ms
Remote clock offset: 0.484 ms

# Below is generated by plot.py at 2019-06-28 08:10:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.98 Mbit/s
95th percentile per-packet one-way delay: 3.848 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.98 Mbit/s
95th percentile per-packet one-way delay: 3.848 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesT — Data Link

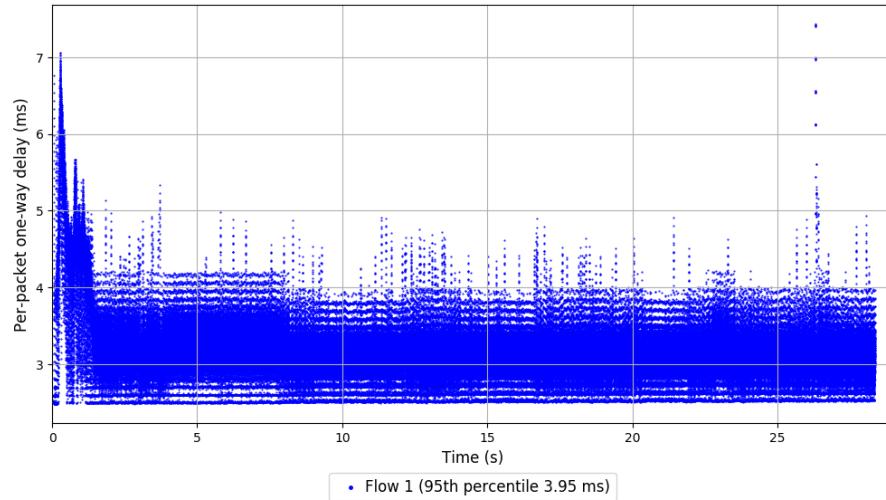
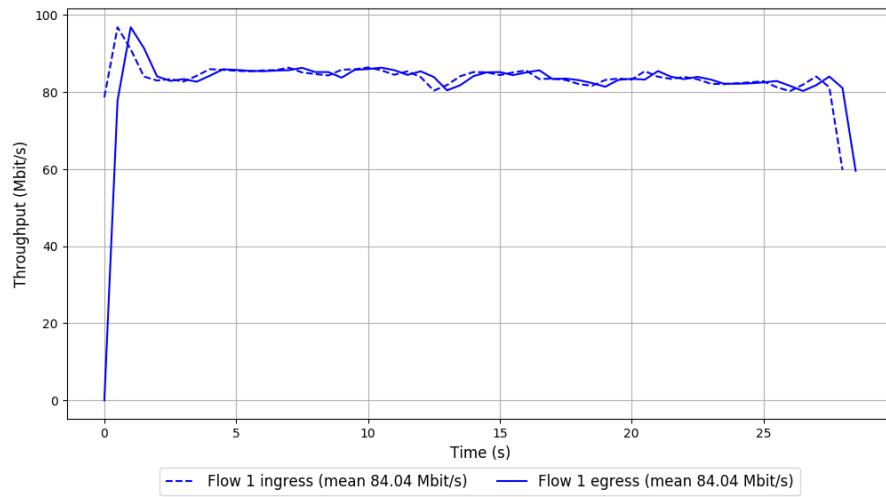


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-06-28 07:21:48
End at: 2019-06-28 07:22:18
Local clock offset: -5.542 ms
Remote clock offset: 0.651 ms

# Below is generated by plot.py at 2019-06-28 08:10:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.04 Mbit/s
95th percentile per-packet one-way delay: 3.947 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 84.04 Mbit/s
95th percentile per-packet one-way delay: 3.947 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesT — Data Link

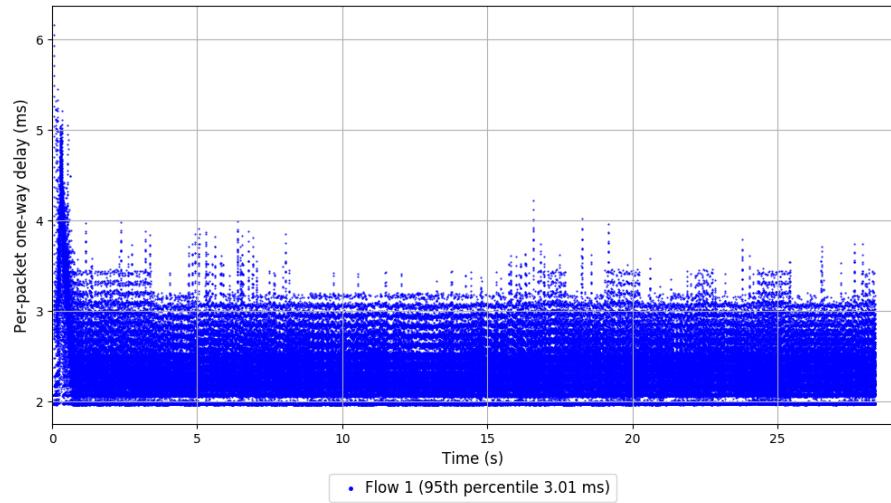
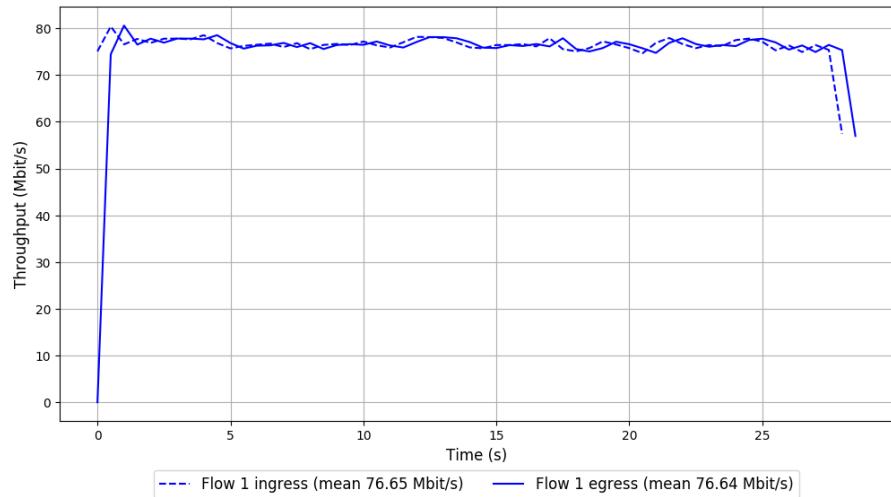


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-06-28 07:46:36
End at: 2019-06-28 07:47:07
Local clock offset: -6.876 ms
Remote clock offset: 0.938 ms

# Below is generated by plot.py at 2019-06-28 08:10:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.64 Mbit/s
95th percentile per-packet one-way delay: 3.009 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 76.64 Mbit/s
95th percentile per-packet one-way delay: 3.009 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesT — Data Link

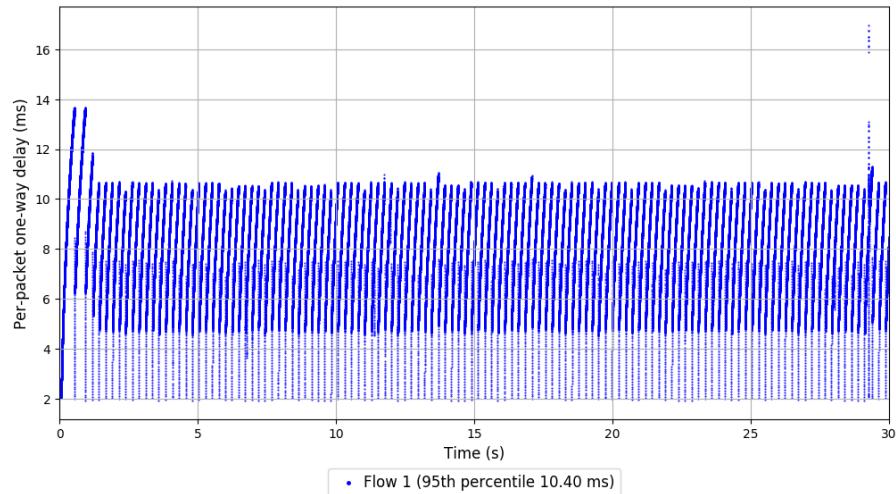
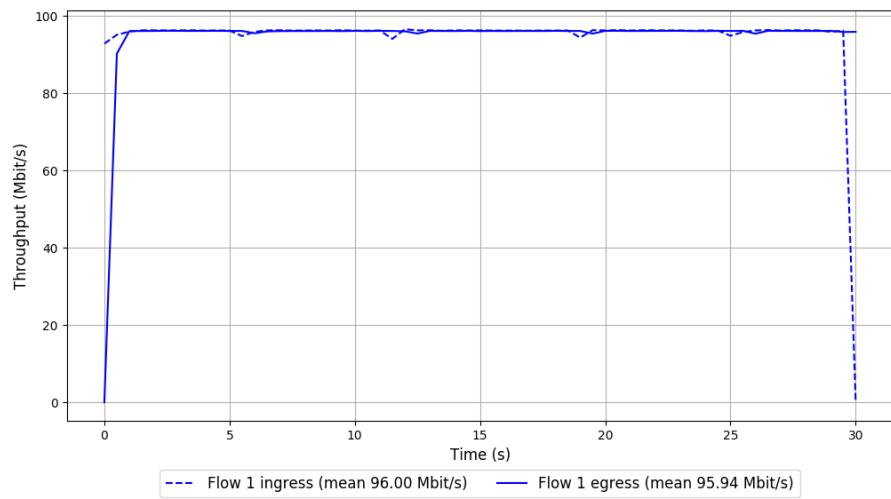


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-06-28 06:13:03
End at: 2019-06-28 06:13:33
Local clock offset: -7.797 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2019-06-28 08:11:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 10.404 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 10.404 ms
Loss rate: 0.08%
```

Run 1: Report of LEDBAT — Data Link

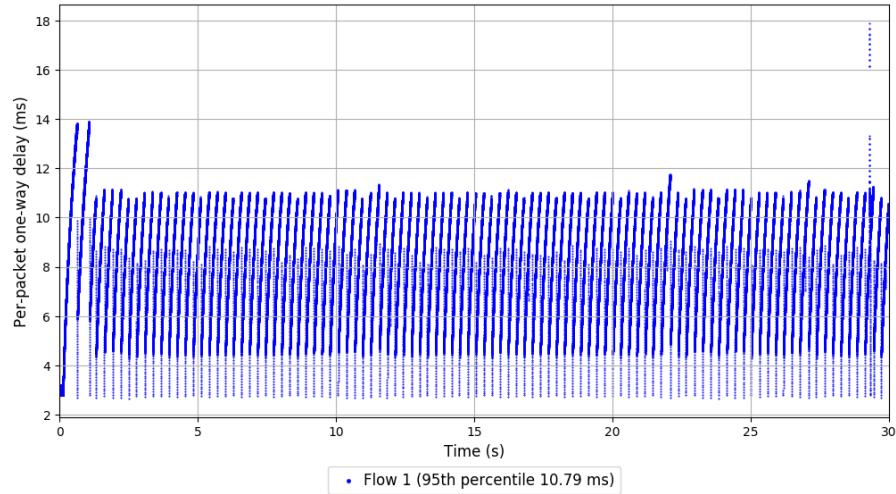
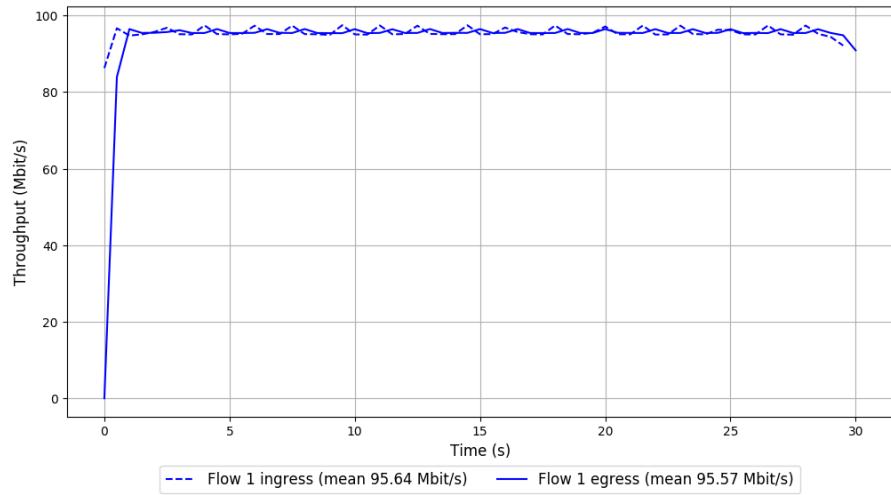


Run 2: Statistics of LEDBAT

```
Start at: 2019-06-28 06:37:50
End at: 2019-06-28 06:38:20
Local clock offset: -7.428 ms
Remote clock offset: 0.39 ms

# Below is generated by plot.py at 2019-06-28 08:11:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.57 Mbit/s
95th percentile per-packet one-way delay: 10.789 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.57 Mbit/s
95th percentile per-packet one-way delay: 10.789 ms
Loss rate: 0.09%
```

Run 2: Report of LEDBAT — Data Link

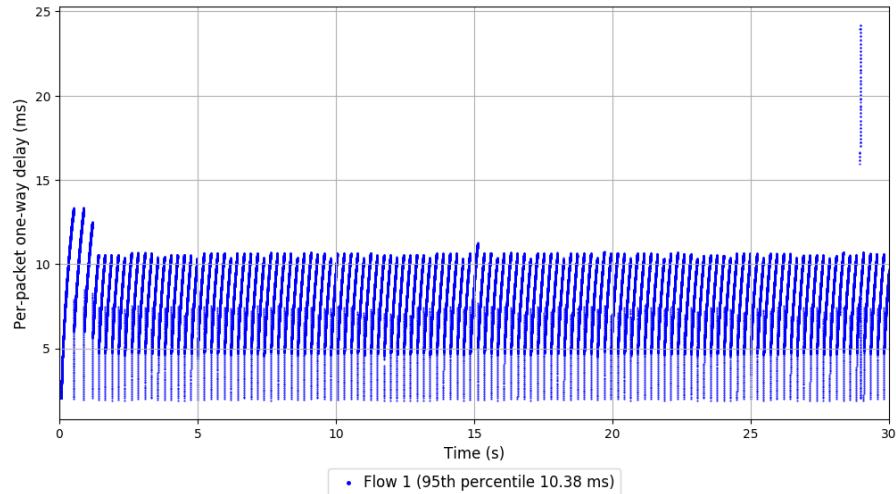
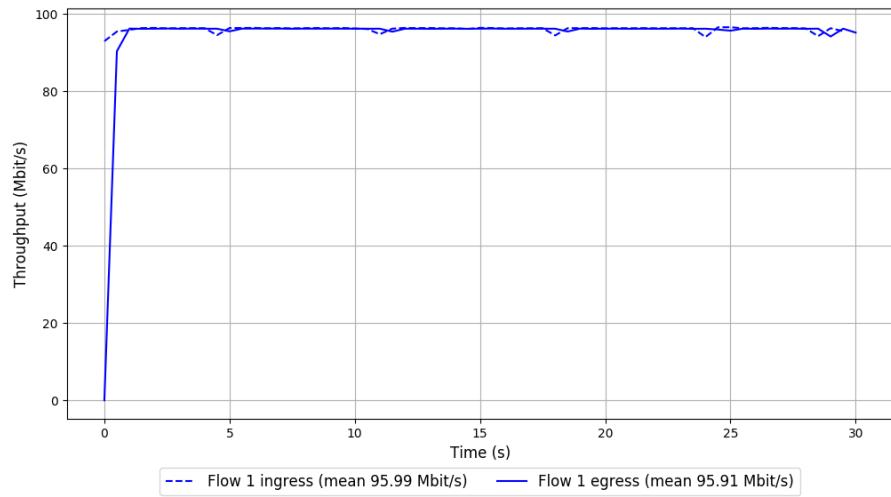


Run 3: Statistics of LEDBAT

```
Start at: 2019-06-28 07:02:40
End at: 2019-06-28 07:03:10
Local clock offset: -6.513 ms
Remote clock offset: 0.562 ms

# Below is generated by plot.py at 2019-06-28 08:11:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 10.384 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 10.384 ms
Loss rate: 0.09%
```

Run 3: Report of LEDBAT — Data Link

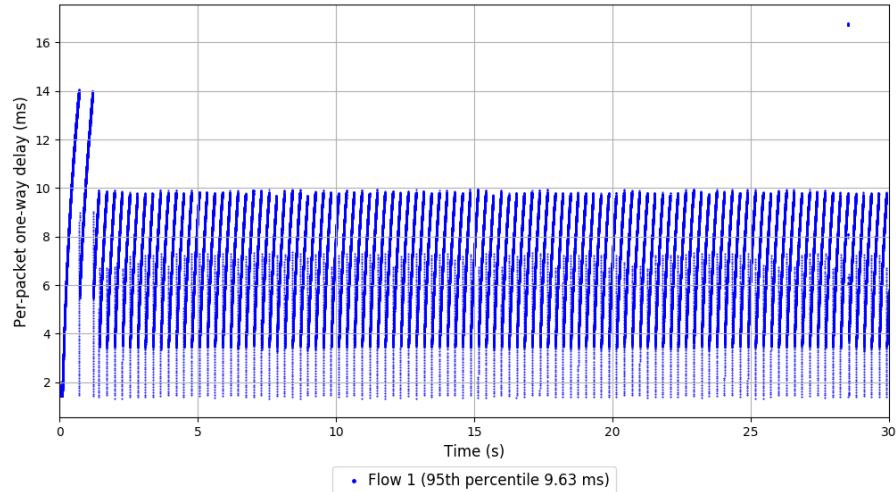
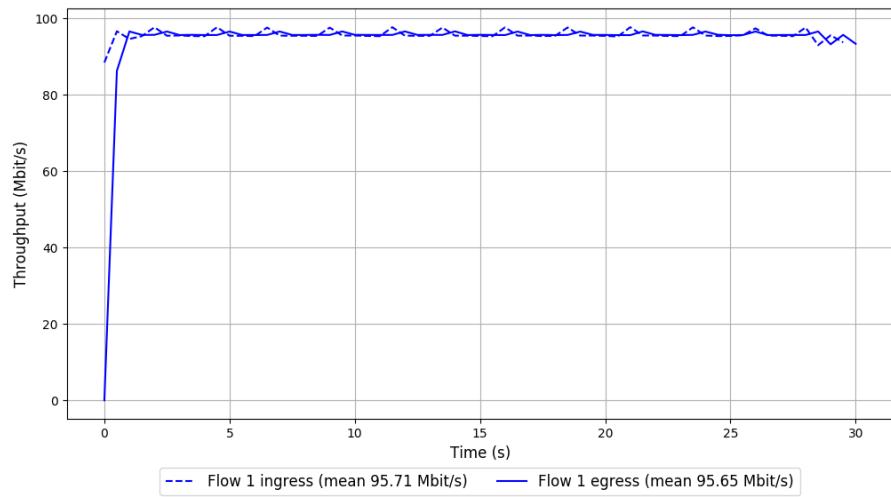


Run 4: Statistics of LEDBAT

```
Start at: 2019-06-28 07:27:31
End at: 2019-06-28 07:28:01
Local clock offset: -6.839 ms
Remote clock offset: 0.707 ms

# Below is generated by plot.py at 2019-06-28 08:11:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 9.627 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 9.627 ms
Loss rate: 0.07%
```

Run 4: Report of LEDBAT — Data Link

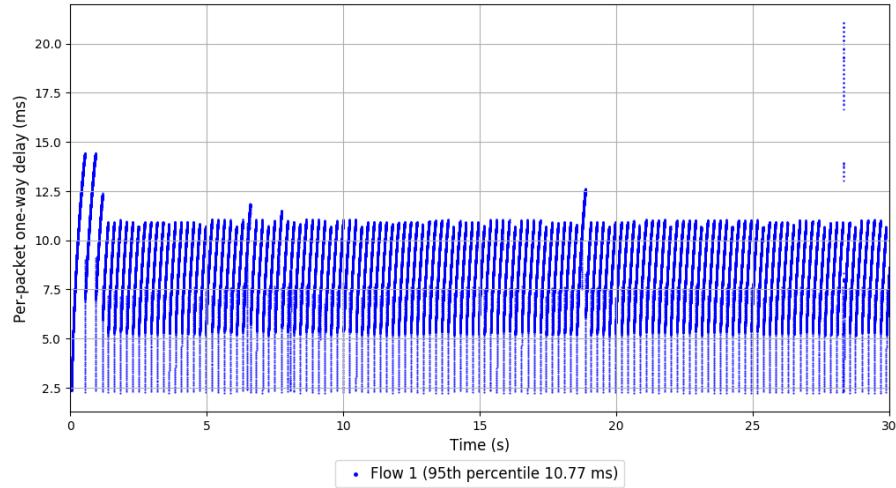
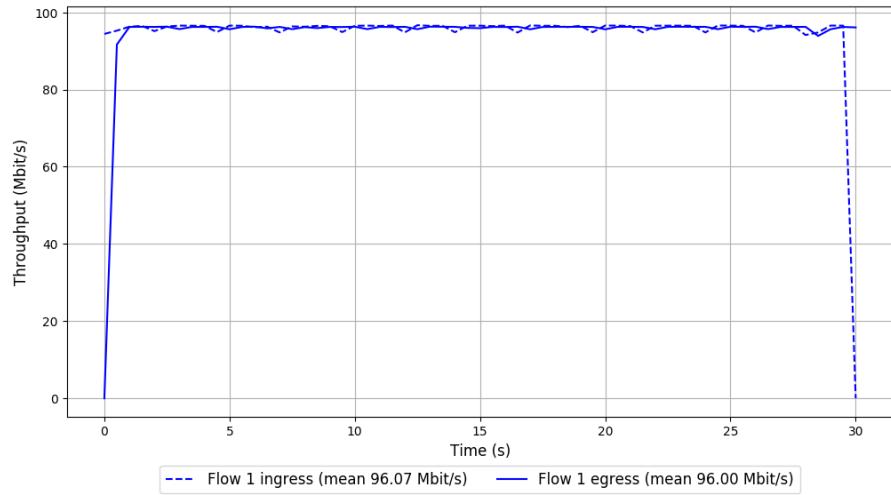


Run 5: Statistics of LEDBAT

```
Start at: 2019-06-28 07:52:20
End at: 2019-06-28 07:52:50
Local clock offset: -5.777 ms
Remote clock offset: 0.951 ms

# Below is generated by plot.py at 2019-06-28 08:11:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 10.774 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 10.774 ms
Loss rate: 0.09%
```

Run 5: Report of LEDBAT — Data Link

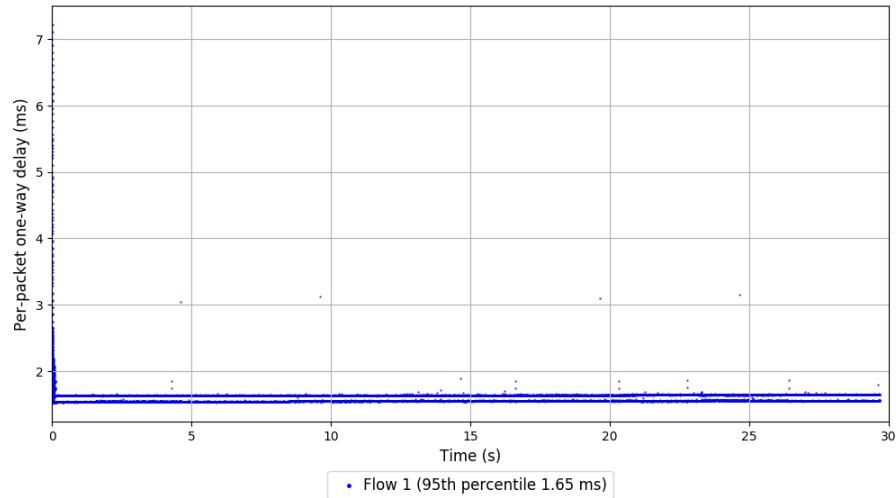
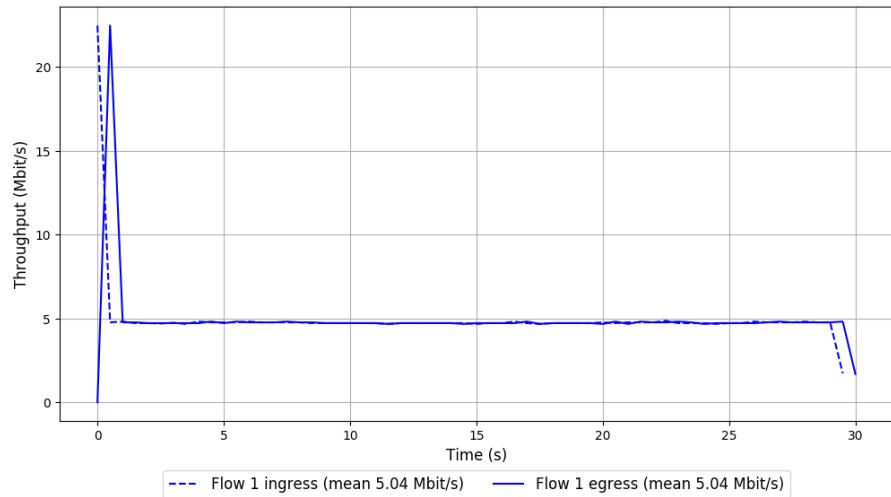


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 06:17:38
End at: 2019-06-28 06:18:08
Local clock offset: -7.948 ms
Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2019-06-28 08:11:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.04 Mbit/s
95th percentile per-packet one-way delay: 1.653 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 5.04 Mbit/s
95th percentile per-packet one-way delay: 1.653 ms
Loss rate: 0.02%
```

Run 1: Report of Muses_DecisionTree — Data Link

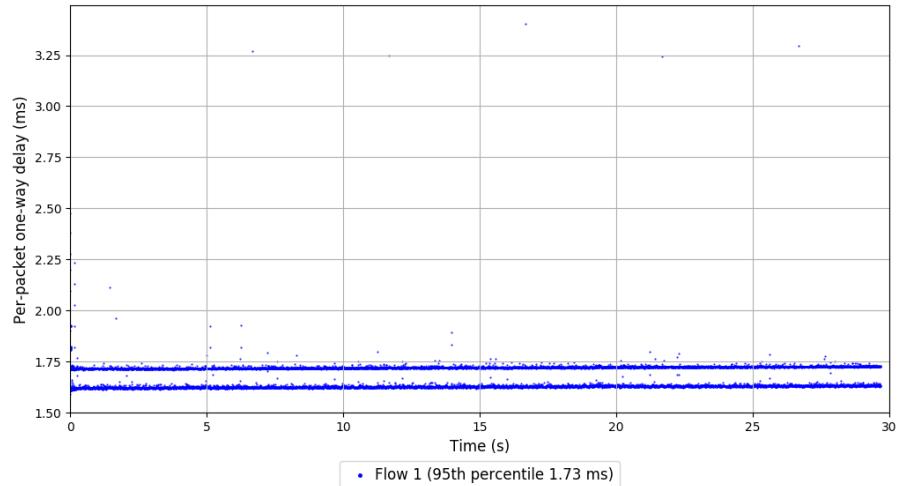
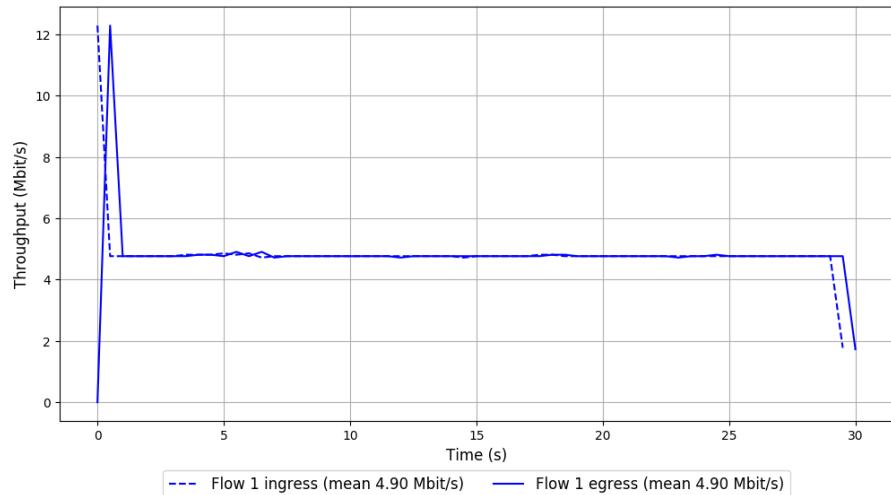


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 06:42:28
End at: 2019-06-28 06:42:58
Local clock offset: -8.276 ms
Remote clock offset: 0.337 ms

# Below is generated by plot.py at 2019-06-28 08:11:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 1.726 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 1.726 ms
Loss rate: 0.02%
```

Run 2: Report of Muses_DecisionTree — Data Link

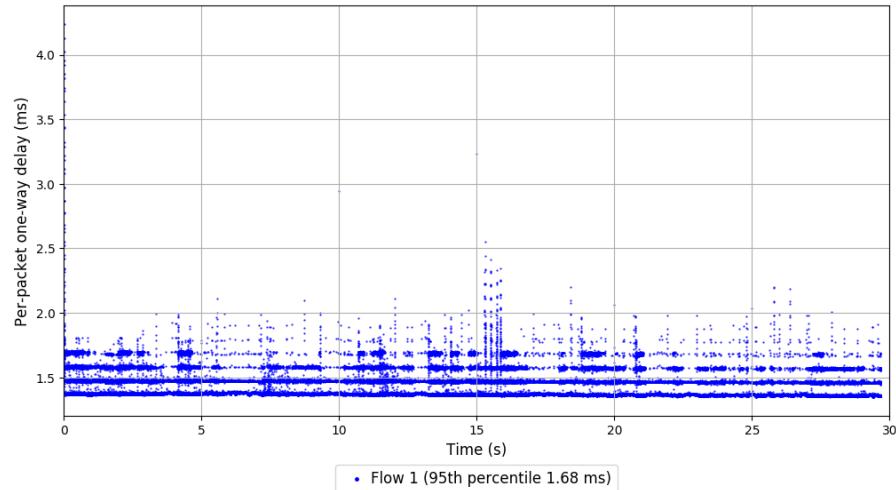
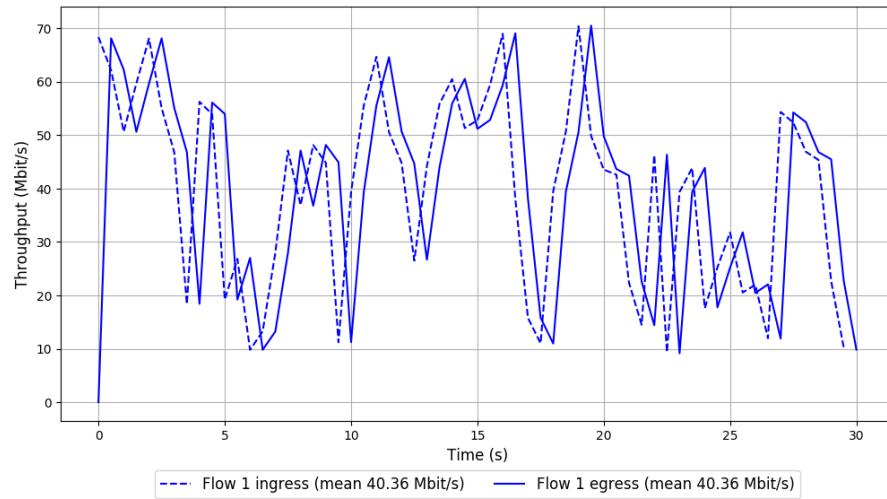


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 07:07:16
End at: 2019-06-28 07:07:46
Local clock offset: -6.506 ms
Remote clock offset: 0.598 ms

# Below is generated by plot.py at 2019-06-28 08:11:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: 1.678 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: 1.678 ms
Loss rate: 0.02%
```

Run 3: Report of Muses_DecisionTree — Data Link

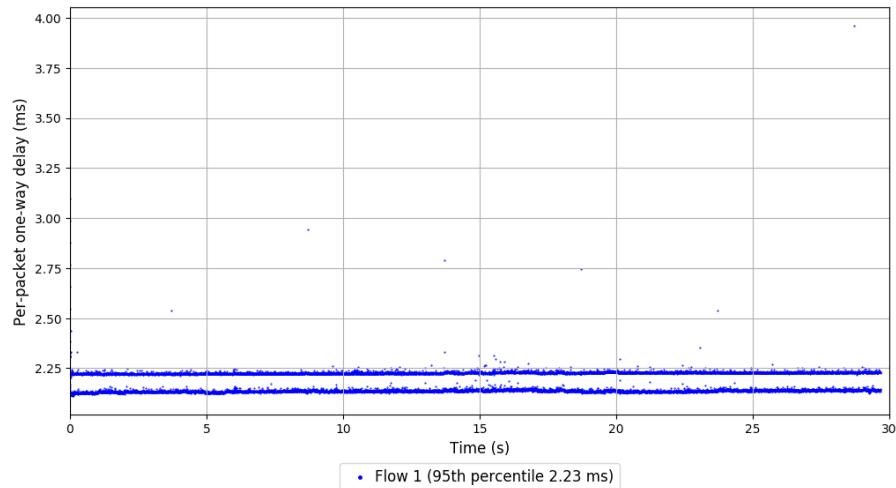
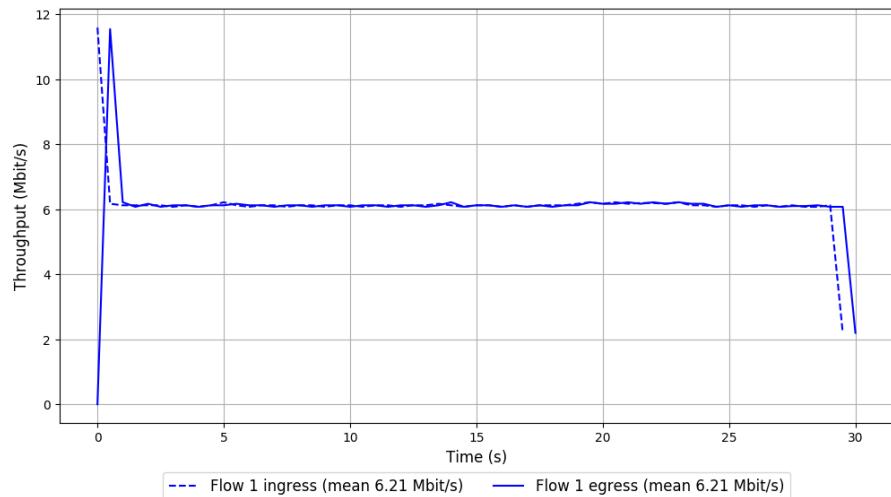


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 07:32:09
End at: 2019-06-28 07:32:39
Local clock offset: -6.715 ms
Remote clock offset: 0.72 ms

# Below is generated by plot.py at 2019-06-28 08:11:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 2.231 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 2.231 ms
Loss rate: 0.01%
```

Run 4: Report of Muses_DecisionTree — Data Link

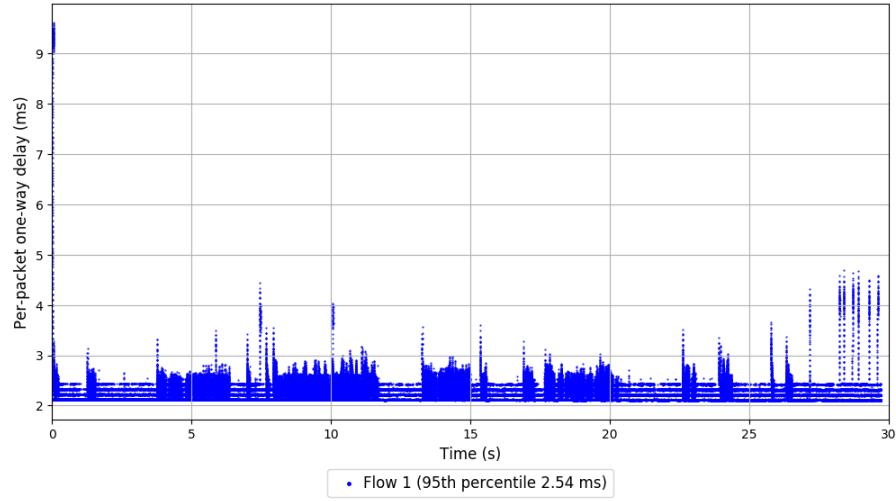
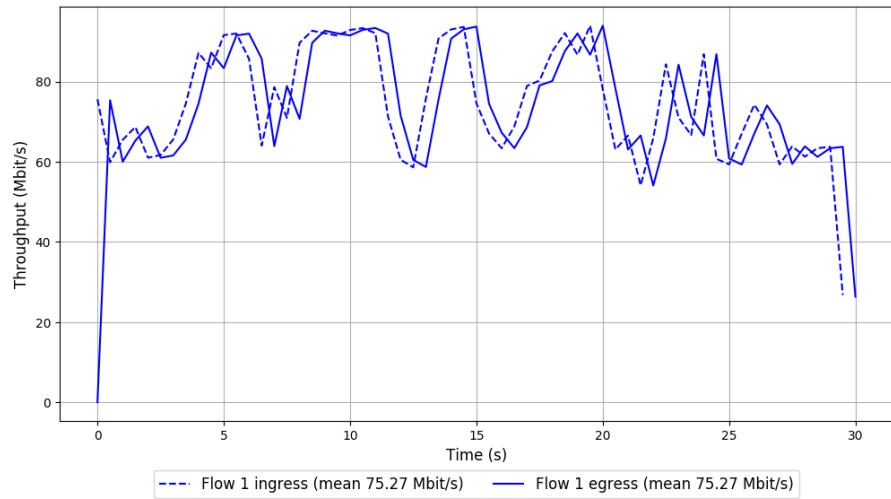


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 07:56:57
End at: 2019-06-28 07:57:27
Local clock offset: -6.379 ms
Remote clock offset: 0.827 ms

# Below is generated by plot.py at 2019-06-28 08:11:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.27 Mbit/s
95th percentile per-packet one-way delay: 2.544 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 75.27 Mbit/s
95th percentile per-packet one-way delay: 2.544 ms
Loss rate: 0.02%
```

Run 5: Report of Muses_DecisionTree — Data Link

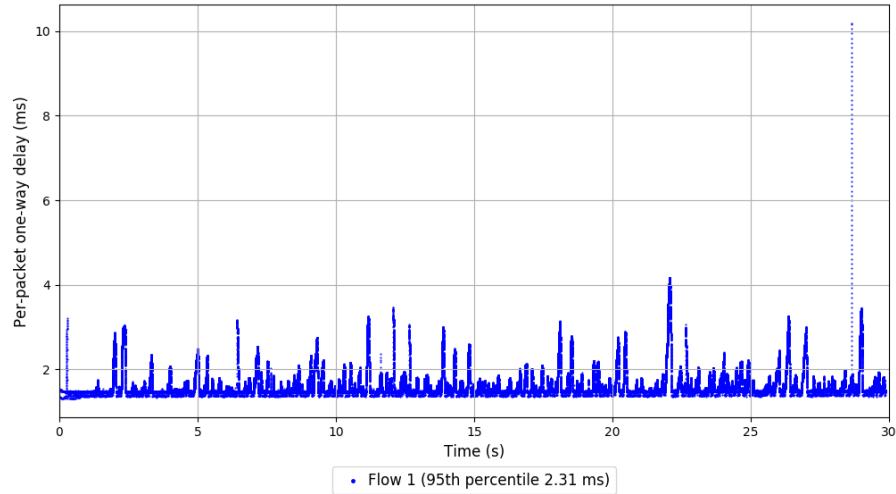
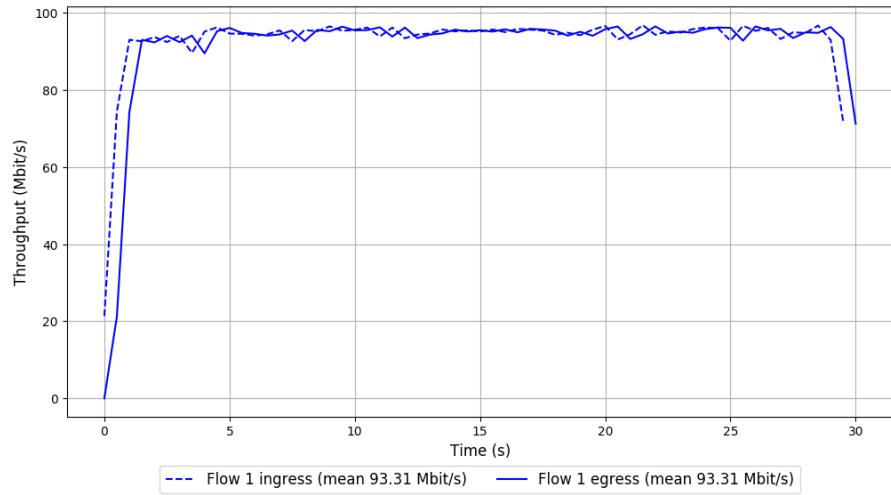


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-06-28 06:19:50
End at: 2019-06-28 06:20:20
Local clock offset: -8.168 ms
Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-06-28 08:12:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.31 Mbit/s
95th percentile per-packet one-way delay: 2.312 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.31 Mbit/s
95th percentile per-packet one-way delay: 2.312 ms
Loss rate: 0.02%
```

Run 1: Report of PCC-Allegro — Data Link

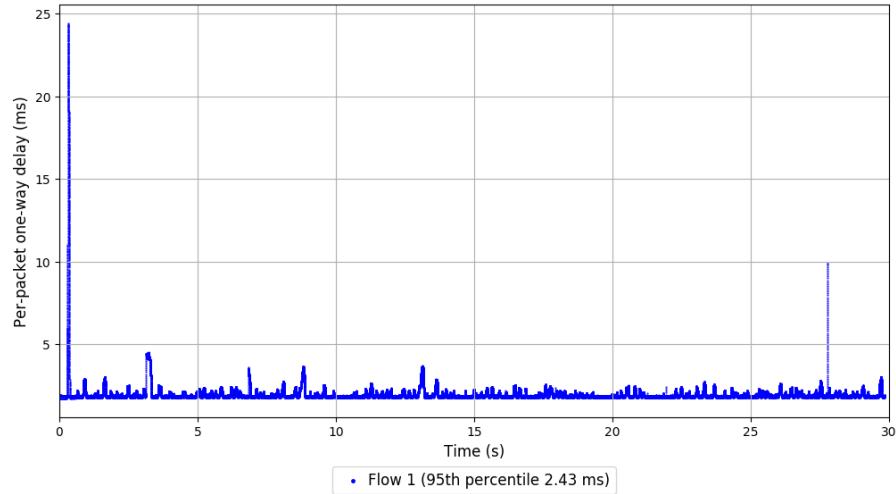
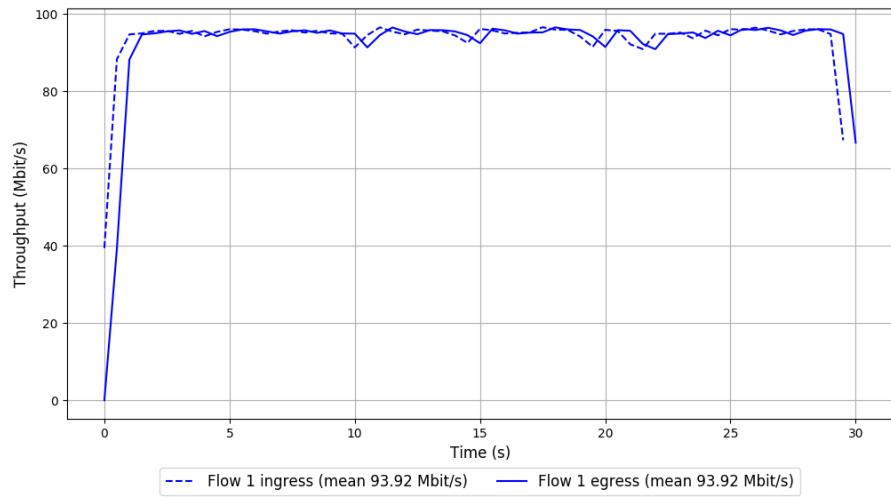


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-06-28 06:44:41
End at: 2019-06-28 06:45:11
Local clock offset: -8.467 ms
Remote clock offset: 0.398 ms

# Below is generated by plot.py at 2019-06-28 08:12:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 2.428 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 2.428 ms
Loss rate: 0.02%
```

Run 2: Report of PCC-Allegro — Data Link

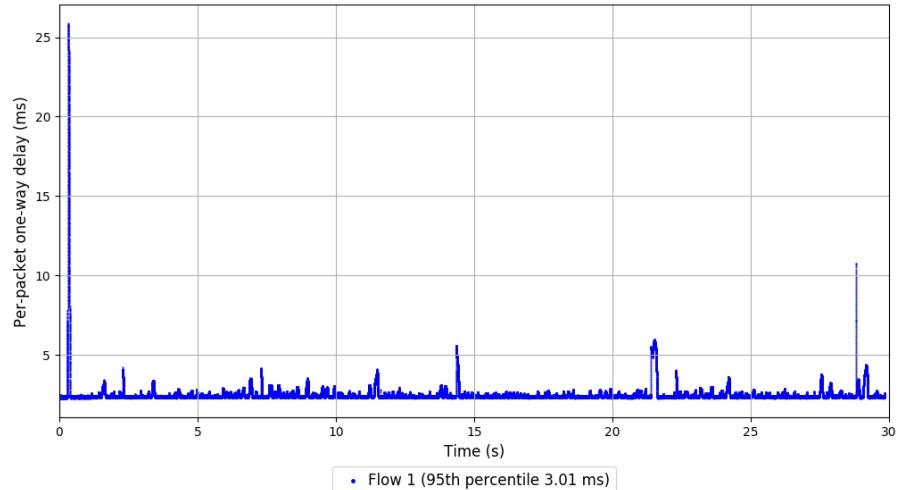
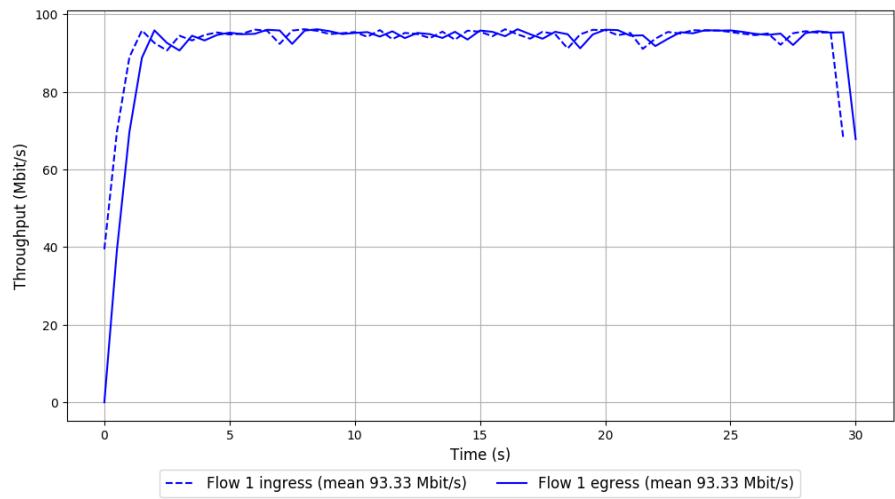


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-06-28 07:09:30
End at: 2019-06-28 07:10:00
Local clock offset: -5.403 ms
Remote clock offset: 0.611 ms

# Below is generated by plot.py at 2019-06-28 08:12:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.33 Mbit/s
95th percentile per-packet one-way delay: 3.010 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.33 Mbit/s
95th percentile per-packet one-way delay: 3.010 ms
Loss rate: 0.02%
```

Run 3: Report of PCC-Allegro — Data Link

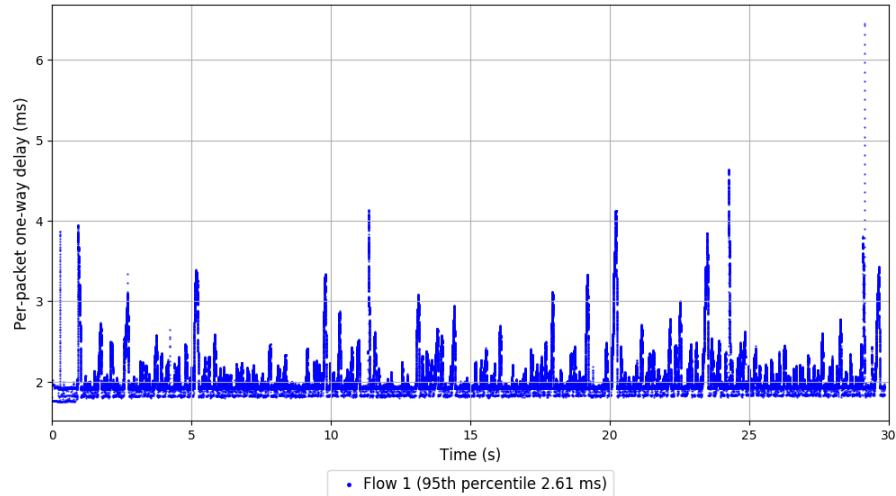
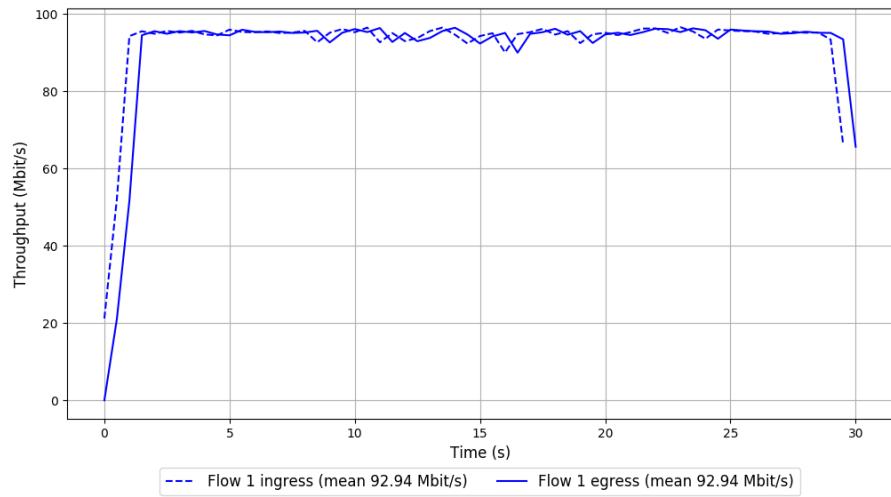


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-06-28 07:34:20
End at: 2019-06-28 07:34:50
Local clock offset: -6.994 ms
Remote clock offset: 0.706 ms

# Below is generated by plot.py at 2019-06-28 08:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 2.607 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 2.607 ms
Loss rate: 0.02%
```

Run 4: Report of PCC-Allegro — Data Link

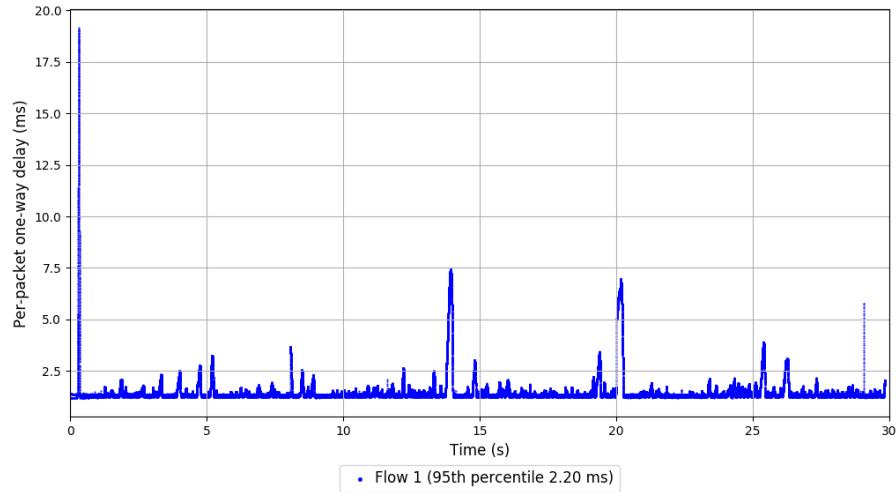
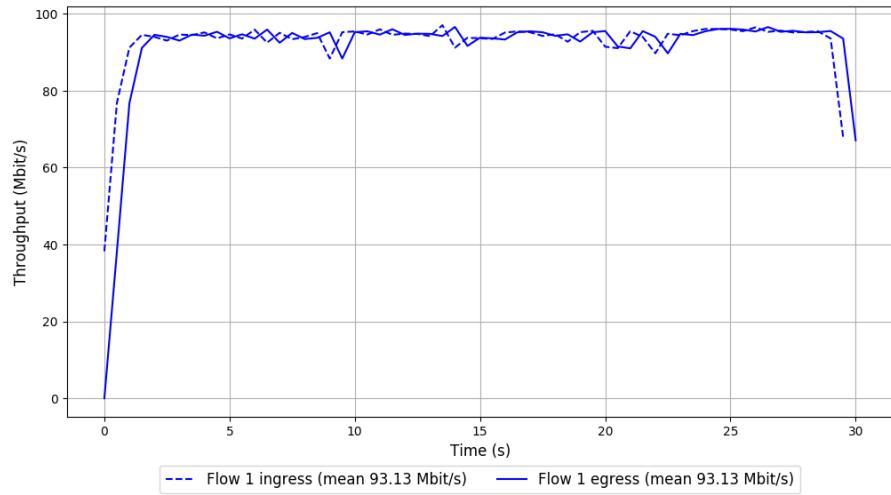


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-06-28 07:59:13
End at: 2019-06-28 07:59:43
Local clock offset: -6.551 ms
Remote clock offset: 0.899 ms

# Below is generated by plot.py at 2019-06-28 08:12:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.13 Mbit/s
95th percentile per-packet one-way delay: 2.196 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.13 Mbit/s
95th percentile per-packet one-way delay: 2.196 ms
Loss rate: 0.02%
```

Run 5: Report of PCC-Allegro — Data Link

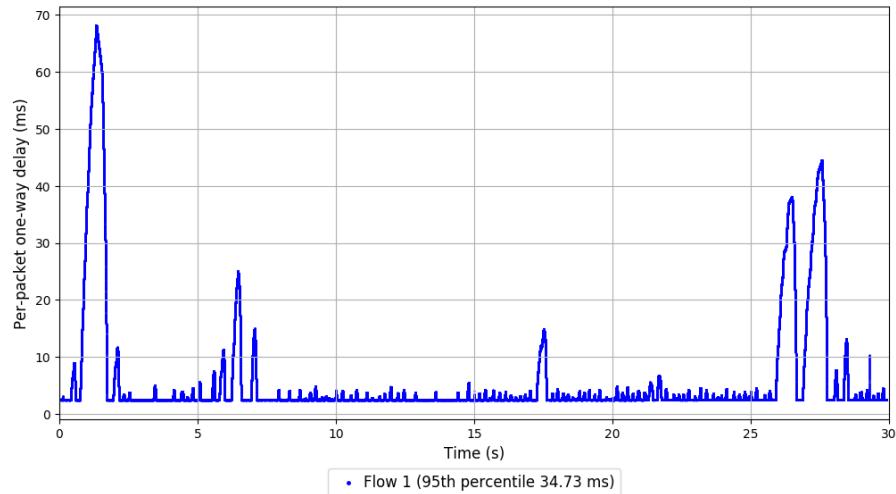
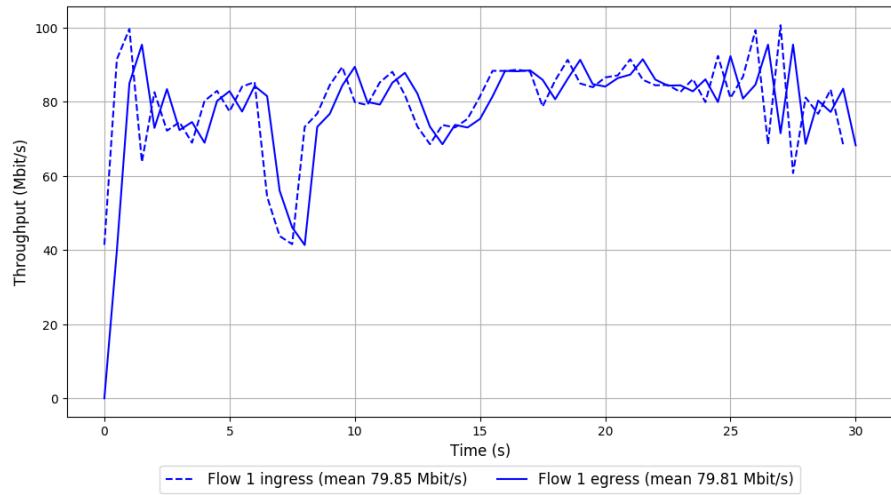


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-06-28 06:10:45
End at: 2019-06-28 06:11:15
Local clock offset: -6.982 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-06-28 08:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.81 Mbit/s
95th percentile per-packet one-way delay: 34.726 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 79.81 Mbit/s
95th percentile per-packet one-way delay: 34.726 ms
Loss rate: 0.07%
```

Run 1: Report of PCC-Expr — Data Link

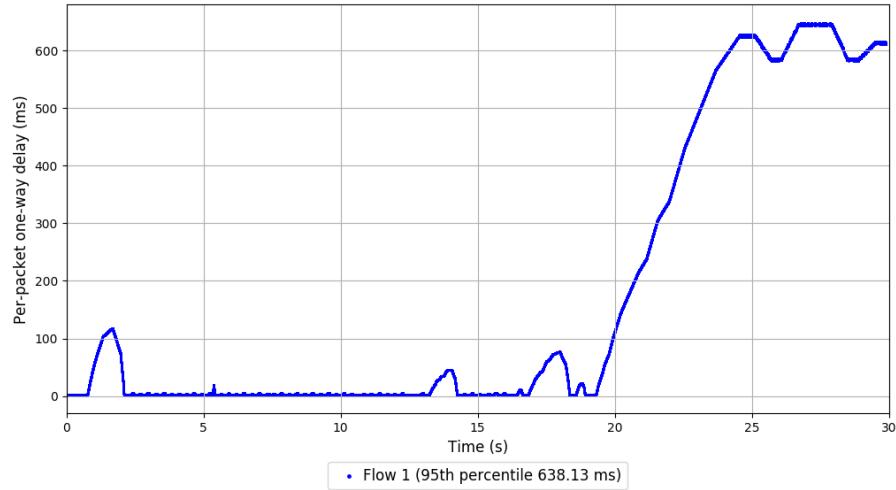
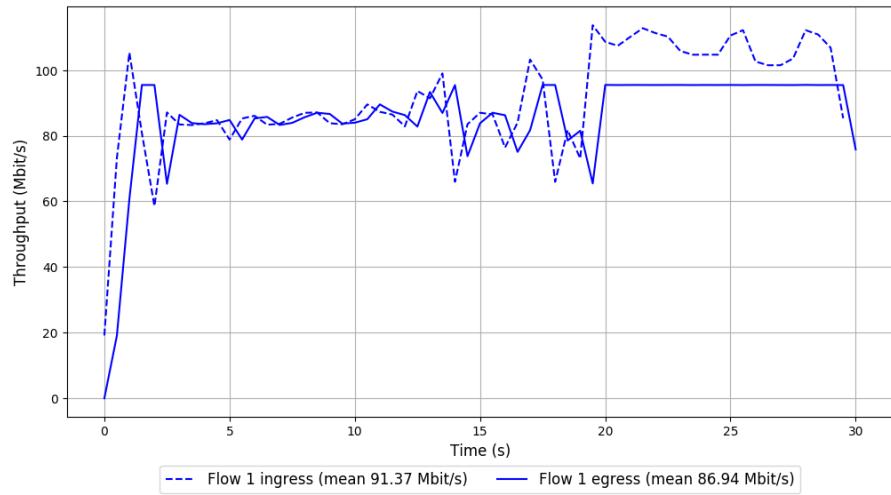


Run 2: Statistics of PCC-Expr

```
Start at: 2019-06-28 06:35:30
End at: 2019-06-28 06:36:00
Local clock offset: -7.407 ms
Remote clock offset: 0.378 ms

# Below is generated by plot.py at 2019-06-28 08:13:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 638.133 ms
Loss rate: 4.86%
-- Flow 1:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 638.133 ms
Loss rate: 4.86%
```

Run 2: Report of PCC-Expr — Data Link

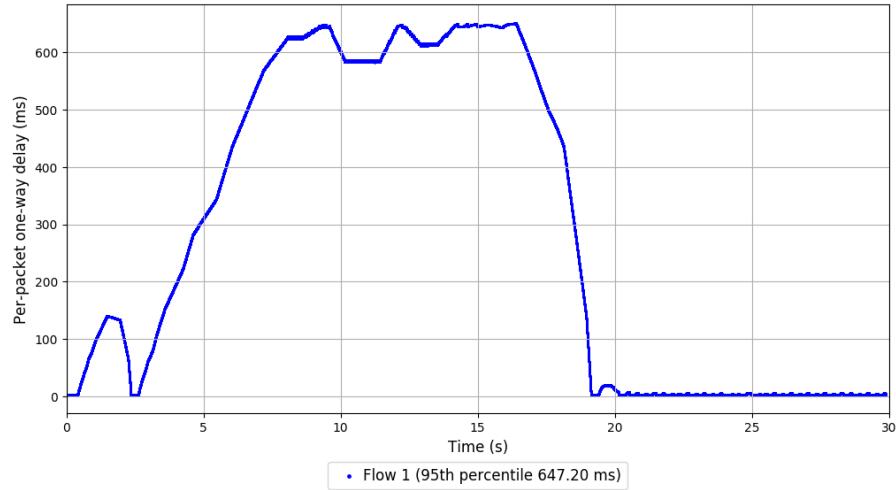
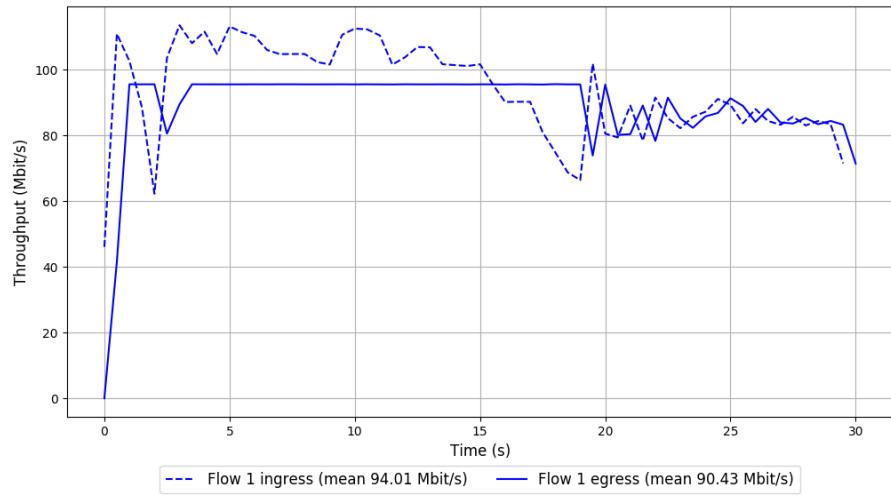


Run 3: Statistics of PCC-Expr

```
Start at: 2019-06-28 07:00:21
End at: 2019-06-28 07:00:51
Local clock offset: -5.86 ms
Remote clock offset: 0.54 ms

# Below is generated by plot.py at 2019-06-28 08:13:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.43 Mbit/s
95th percentile per-packet one-way delay: 647.200 ms
Loss rate: 3.83%
-- Flow 1:
Average throughput: 90.43 Mbit/s
95th percentile per-packet one-way delay: 647.200 ms
Loss rate: 3.83%
```

Run 3: Report of PCC-Expr — Data Link

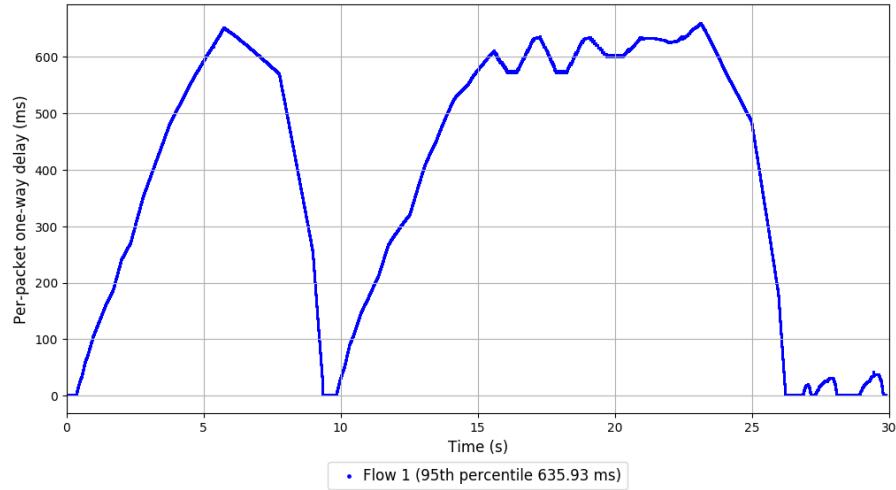
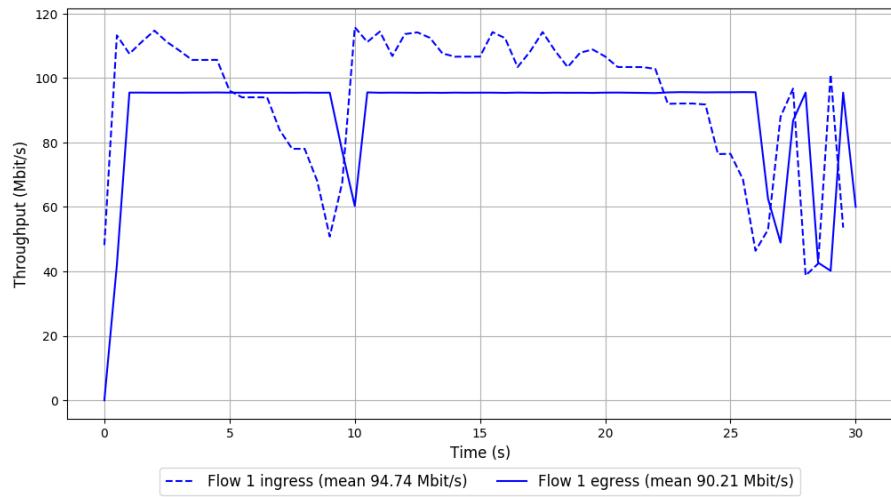


Run 4: Statistics of PCC-Expr

```
Start at: 2019-06-28 07:25:12
End at: 2019-06-28 07:25:42
Local clock offset: -6.757 ms
Remote clock offset: 0.708 ms

# Below is generated by plot.py at 2019-06-28 08:14:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.21 Mbit/s
95th percentile per-packet one-way delay: 635.930 ms
Loss rate: 4.80%
-- Flow 1:
Average throughput: 90.21 Mbit/s
95th percentile per-packet one-way delay: 635.930 ms
Loss rate: 4.80%
```

Run 4: Report of PCC-Expr — Data Link

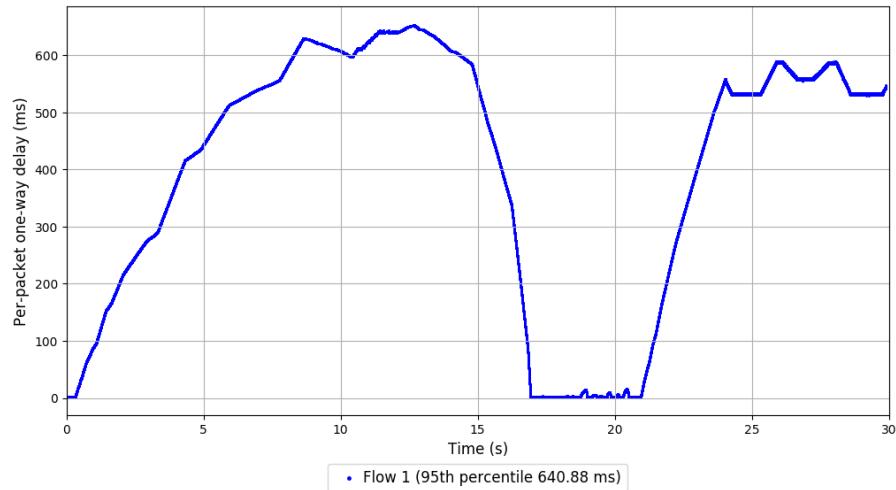
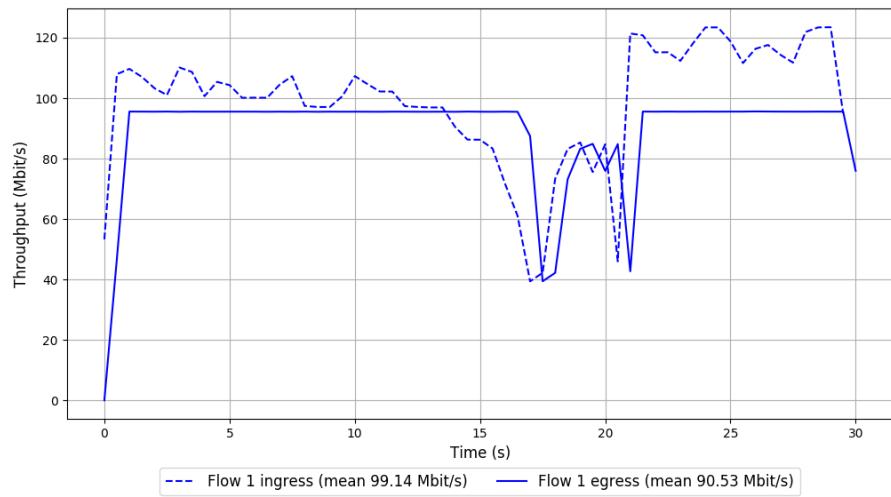


Run 5: Statistics of PCC-Expr

```
Start at: 2019-06-28 07:49:59
End at: 2019-06-28 07:50:30
Local clock offset: -5.967 ms
Remote clock offset: 0.923 ms

# Below is generated by plot.py at 2019-06-28 08:14:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.53 Mbit/s
95th percentile per-packet one-way delay: 640.878 ms
Loss rate: 8.69%
-- Flow 1:
Average throughput: 90.53 Mbit/s
95th percentile per-packet one-way delay: 640.878 ms
Loss rate: 8.69%
```

Run 5: Report of PCC-Expr — Data Link

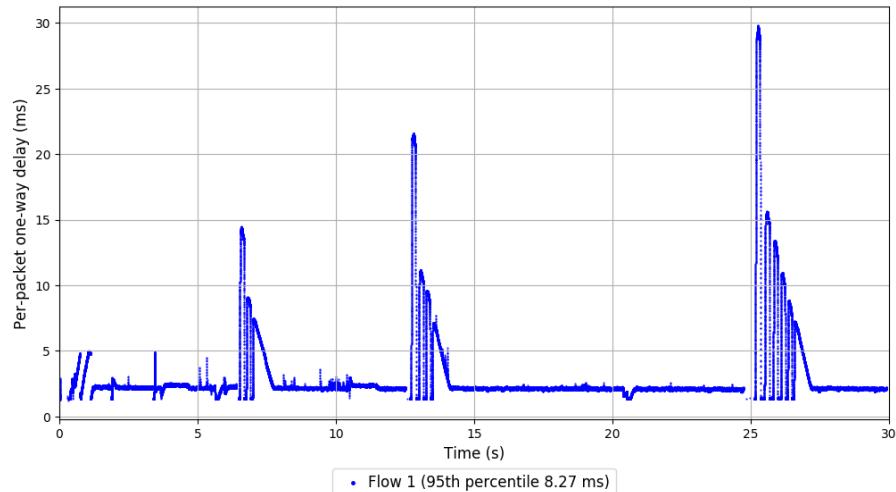
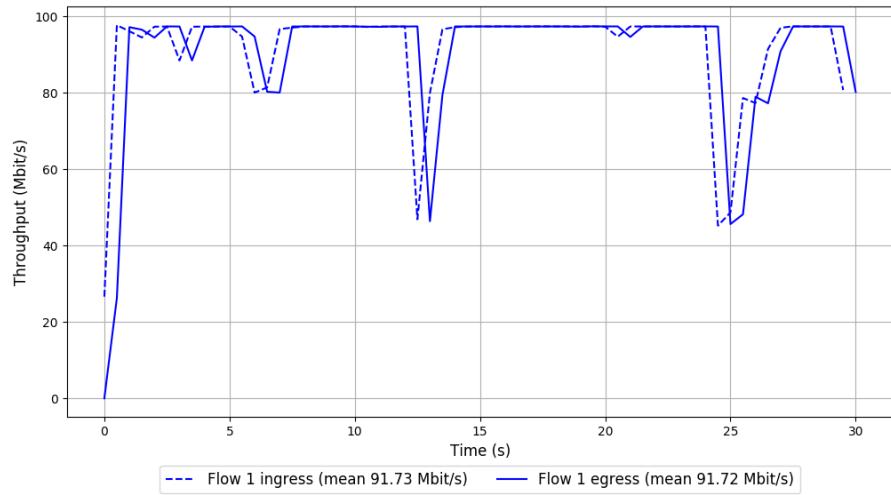


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-06-28 06:15:23
End at: 2019-06-28 06:15:53
Local clock offset: -8.078 ms
Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2019-06-28 08:14:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.72 Mbit/s
95th percentile per-packet one-way delay: 8.272 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.72 Mbit/s
95th percentile per-packet one-way delay: 8.272 ms
Loss rate: 0.02%
```

Run 1: Report of QUIC Cubic — Data Link

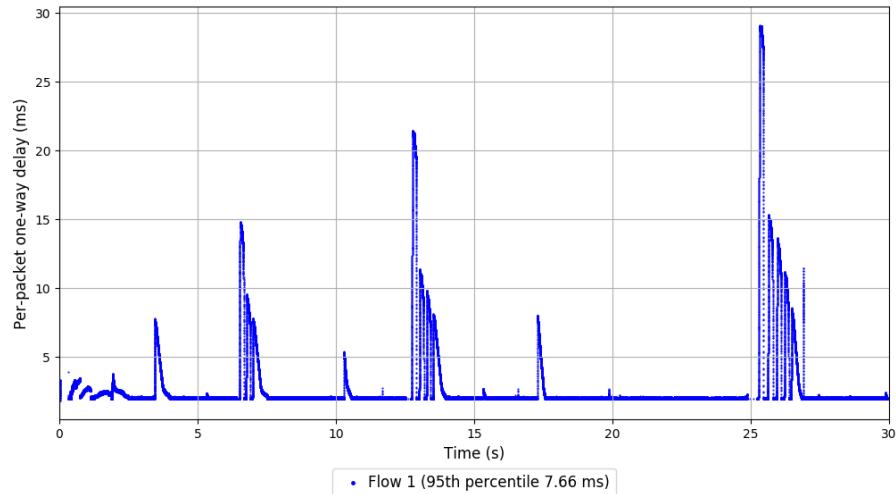
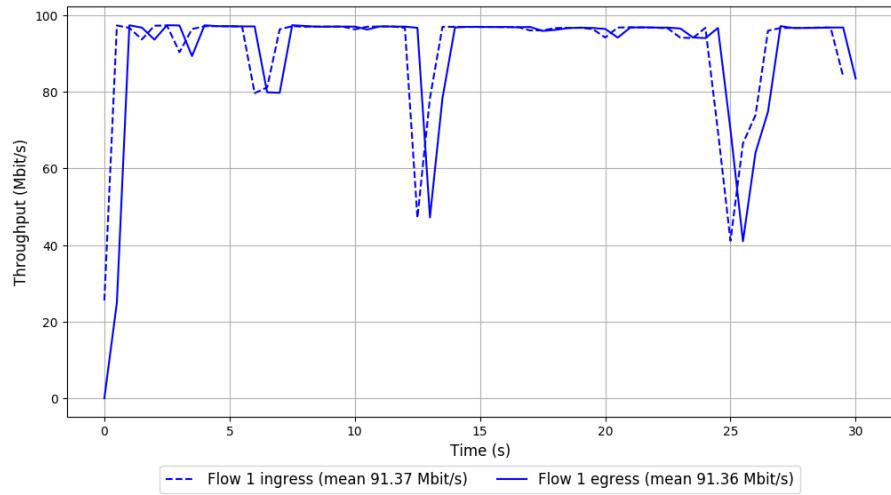


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-06-28 06:40:10
End at: 2019-06-28 06:40:40
Local clock offset: -8.249 ms
Remote clock offset: 0.414 ms

# Below is generated by plot.py at 2019-06-28 08:14:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 7.662 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 7.662 ms
Loss rate: 0.02%
```

Run 2: Report of QUIC Cubic — Data Link

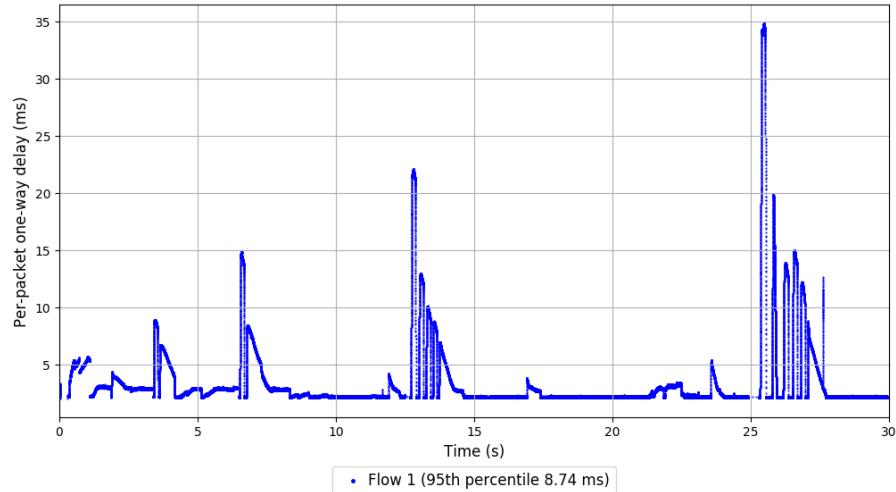
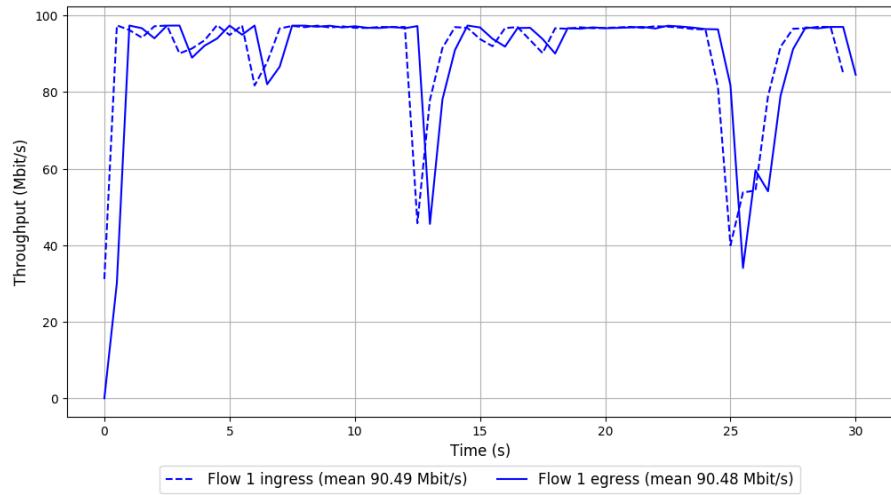


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-06-28 07:05:00
End at: 2019-06-28 07:05:30
Local clock offset: -5.816 ms
Remote clock offset: 0.551 ms

# Below is generated by plot.py at 2019-06-28 08:14:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.48 Mbit/s
95th percentile per-packet one-way delay: 8.738 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.48 Mbit/s
95th percentile per-packet one-way delay: 8.738 ms
Loss rate: 0.02%
```

Run 3: Report of QUIC Cubic — Data Link

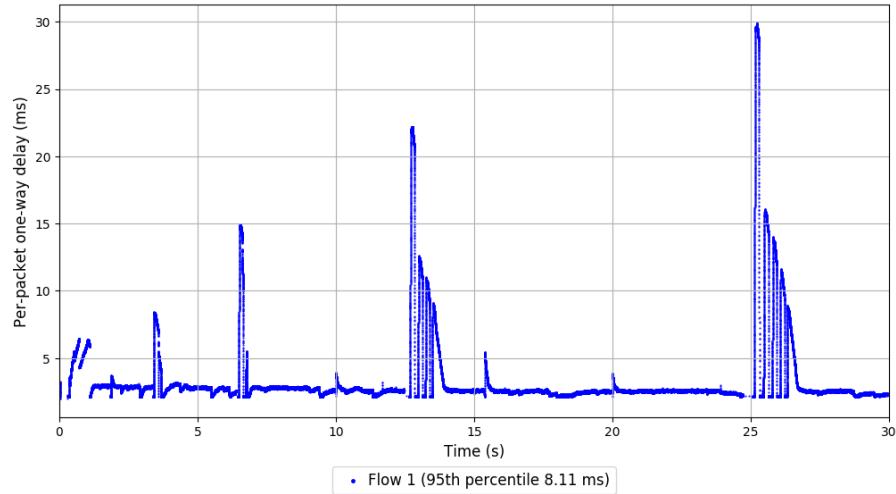
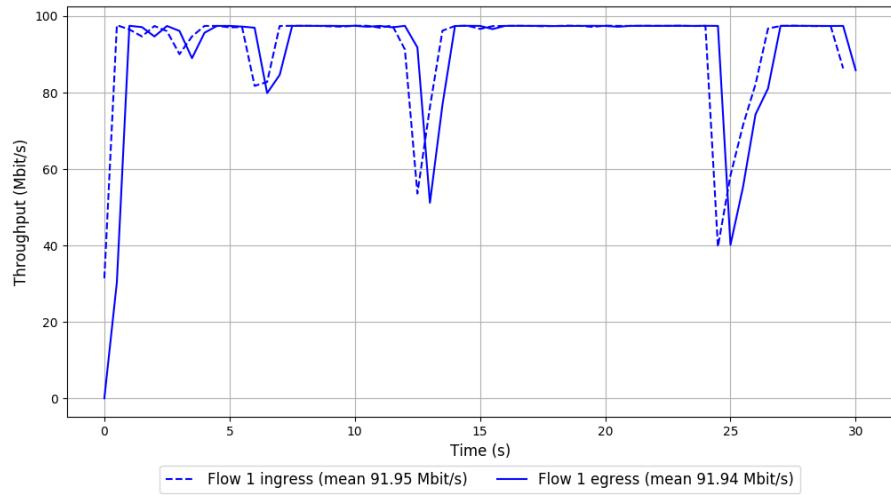


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-06-28 07:29:51
End at: 2019-06-28 07:30:21
Local clock offset: -6.192 ms
Remote clock offset: 0.729 ms

# Below is generated by plot.py at 2019-06-28 08:14:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.94 Mbit/s
95th percentile per-packet one-way delay: 8.108 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.94 Mbit/s
95th percentile per-packet one-way delay: 8.108 ms
Loss rate: 0.02%
```

Run 4: Report of QUIC Cubic — Data Link

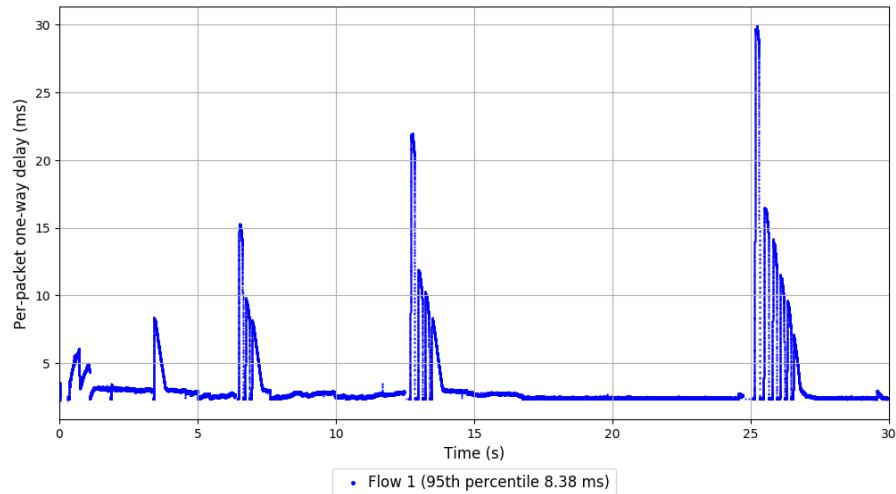
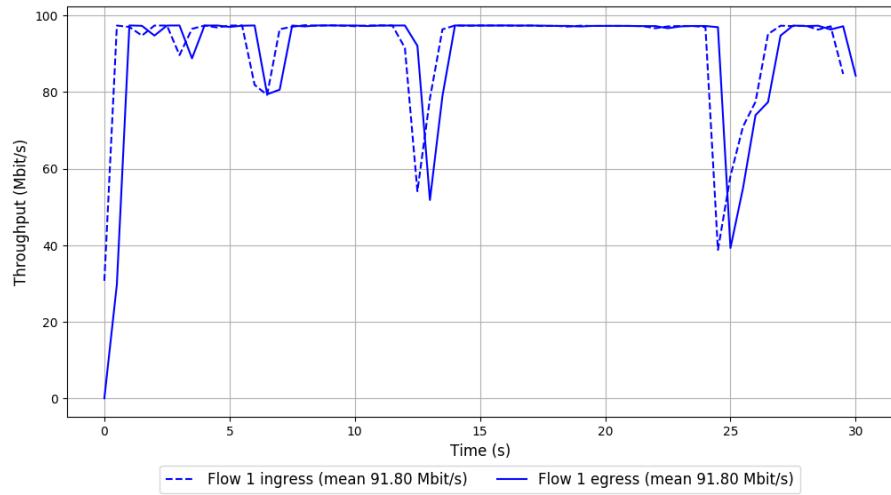


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-06-28 07:54:40
End at: 2019-06-28 07:55:10
Local clock offset: -5.674 ms
Remote clock offset: 0.93 ms

# Below is generated by plot.py at 2019-06-28 08:14:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.80 Mbit/s
95th percentile per-packet one-way delay: 8.377 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.80 Mbit/s
95th percentile per-packet one-way delay: 8.377 ms
Loss rate: 0.02%
```

Run 5: Report of QUIC Cubic — Data Link

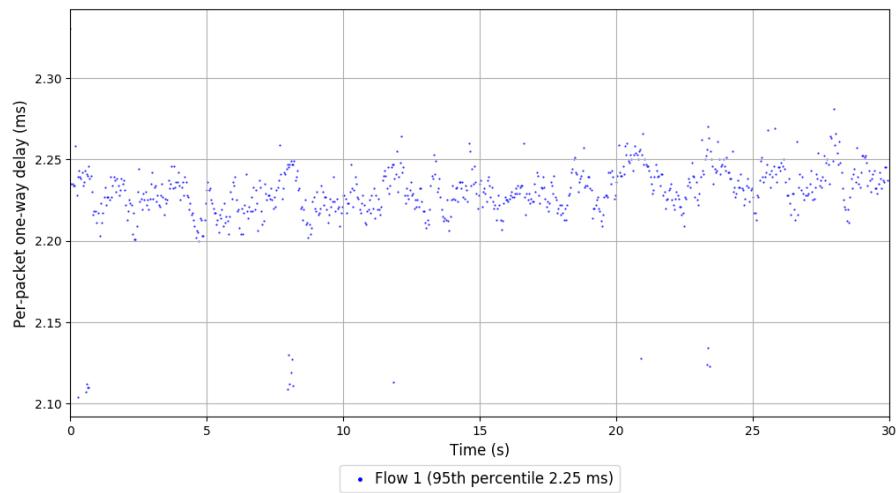
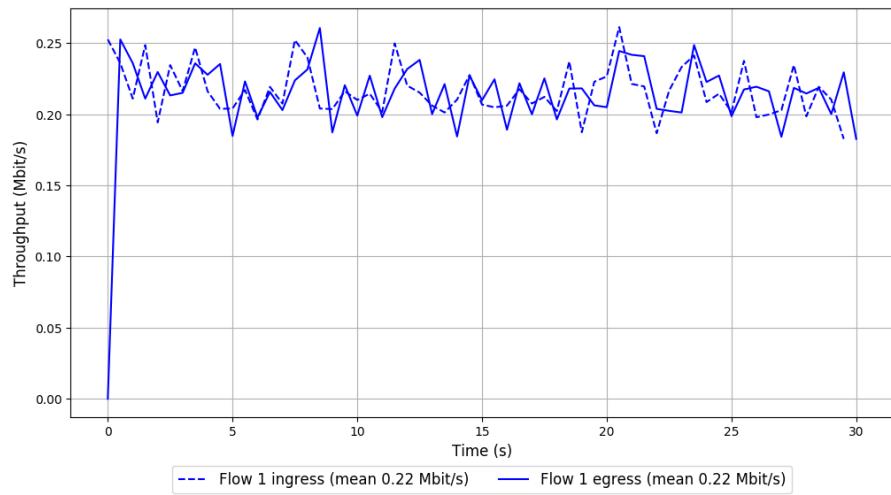


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-06-28 06:04:02
End at: 2019-06-28 06:04:32
Local clock offset: -7.032 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-06-28 08:14:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.253 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.253 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

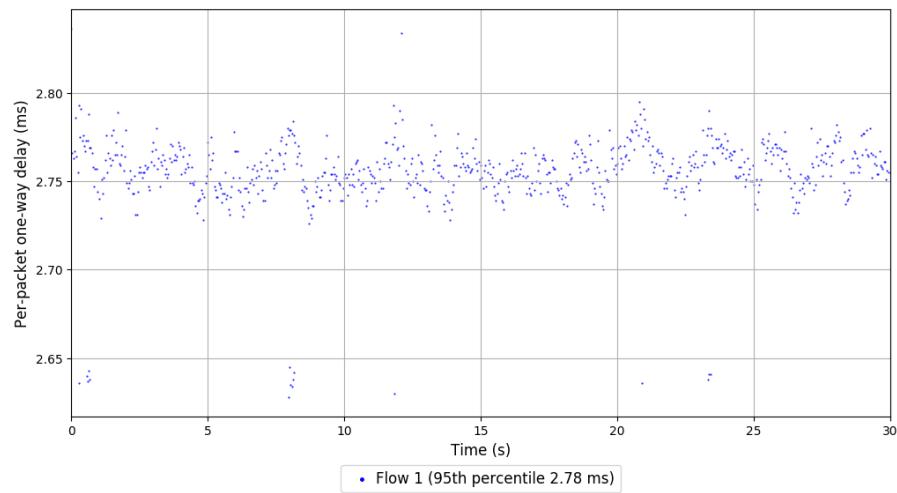
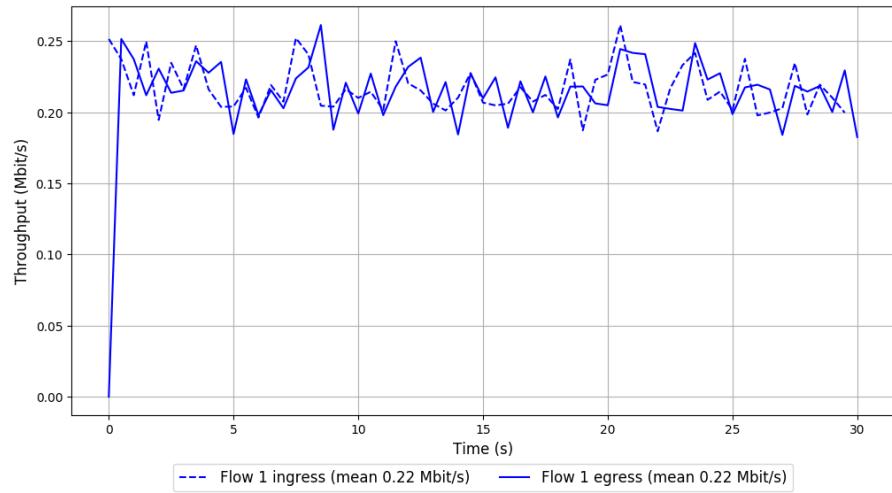


Run 2: Statistics of SCReAM

```
Start at: 2019-06-28 06:28:48
End at: 2019-06-28 06:29:18
Local clock offset: -7.343 ms
Remote clock offset: 0.303 ms

# Below is generated by plot.py at 2019-06-28 08:14:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.778 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.778 ms
Loss rate: 0.13%
```

Run 2: Report of SCReAM — Data Link

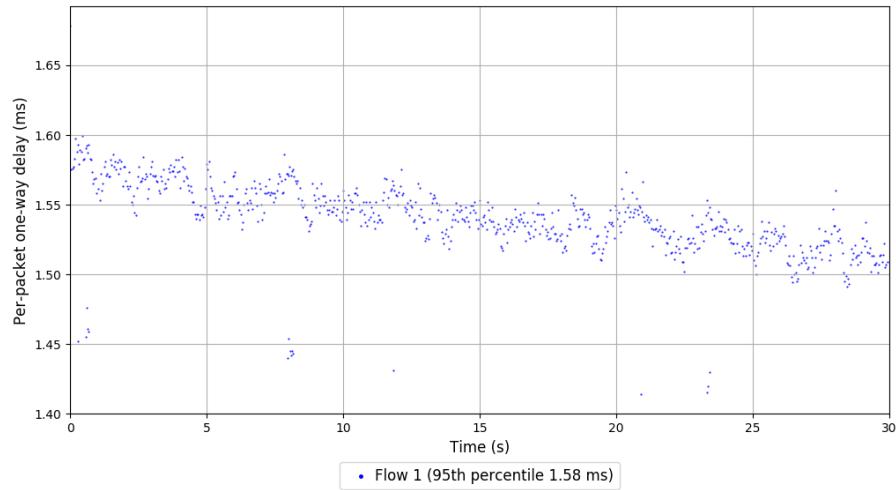
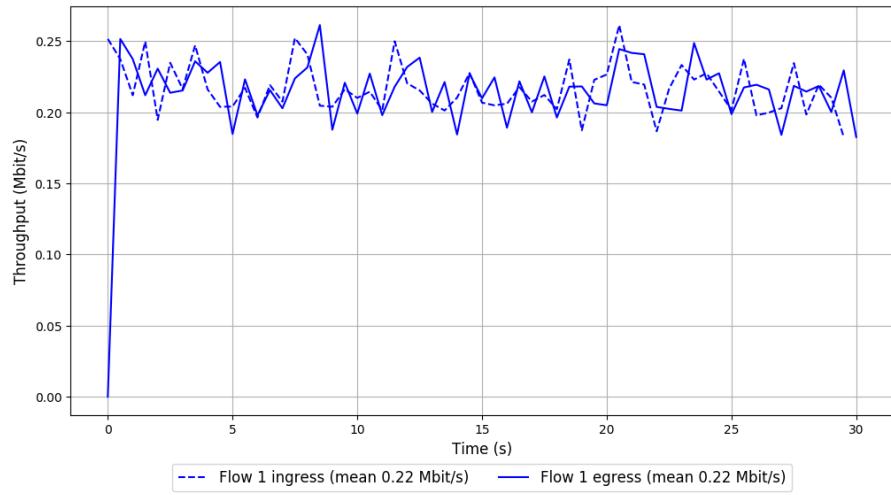


Run 3: Statistics of SCReAM

```
Start at: 2019-06-28 06:53:38
End at: 2019-06-28 06:54:08
Local clock offset: -7.334 ms
Remote clock offset: 0.444 ms

# Below is generated by plot.py at 2019-06-28 08:14:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.577 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.577 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

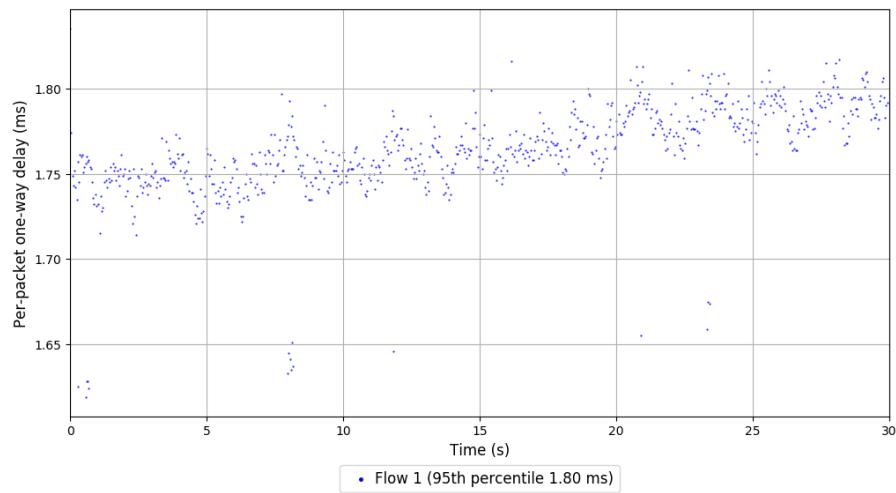
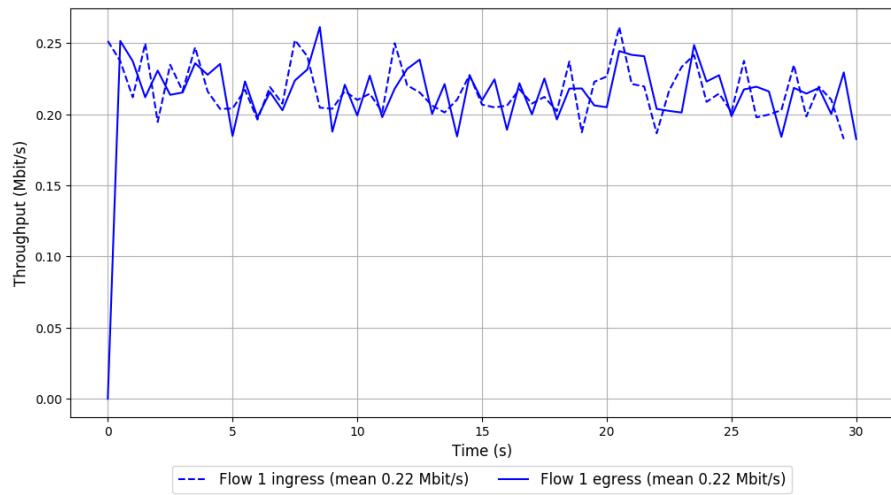


Run 4: Statistics of SCReAM

```
Start at: 2019-06-28 07:18:29
End at: 2019-06-28 07:18:59
Local clock offset: -6.012 ms
Remote clock offset: 0.625 ms

# Below is generated by plot.py at 2019-06-28 08:14:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.799 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.799 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

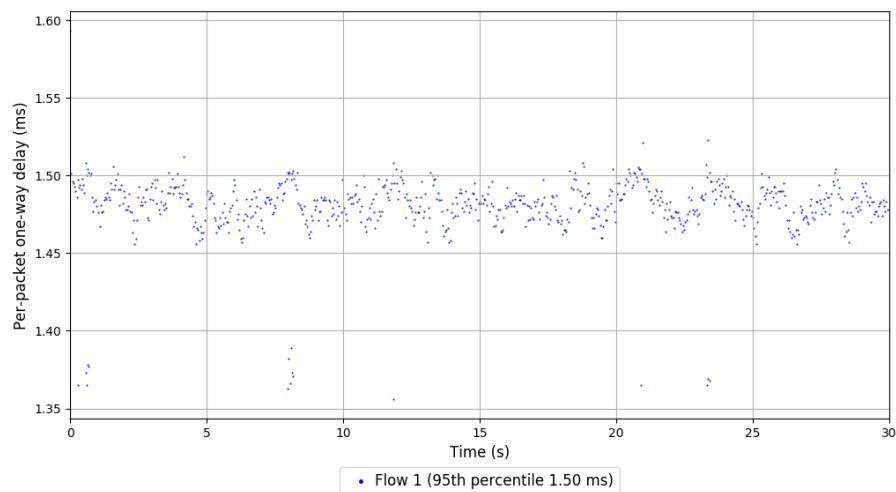
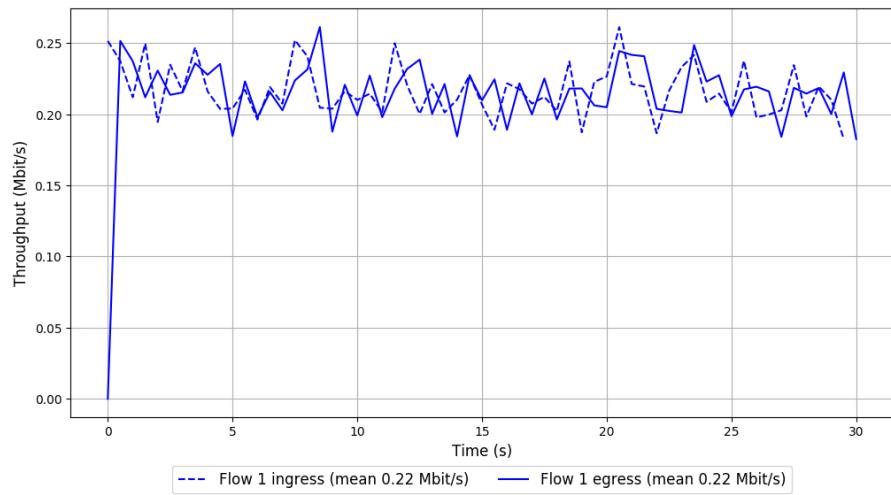


Run 5: Statistics of SCReAM

```
Start at: 2019-06-28 07:43:17
End at: 2019-06-28 07:43:47
Local clock offset: -7.035 ms
Remote clock offset: 0.792 ms

# Below is generated by plot.py at 2019-06-28 08:14:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.501 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.501 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

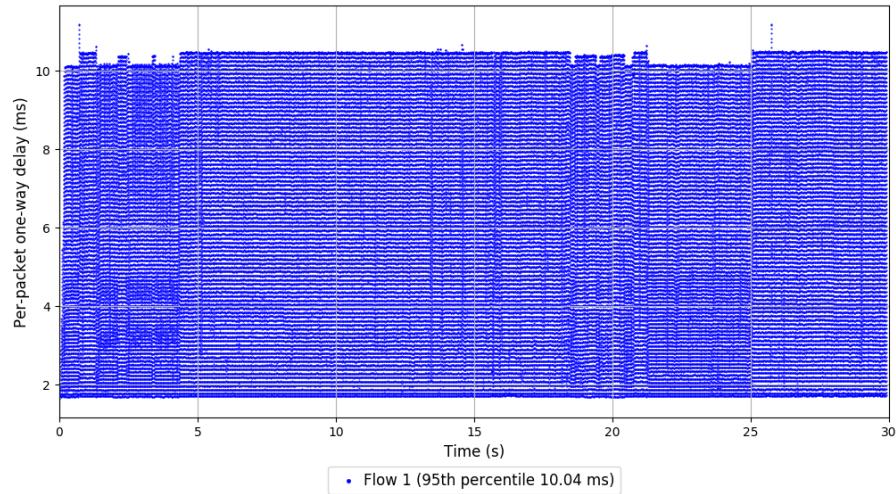
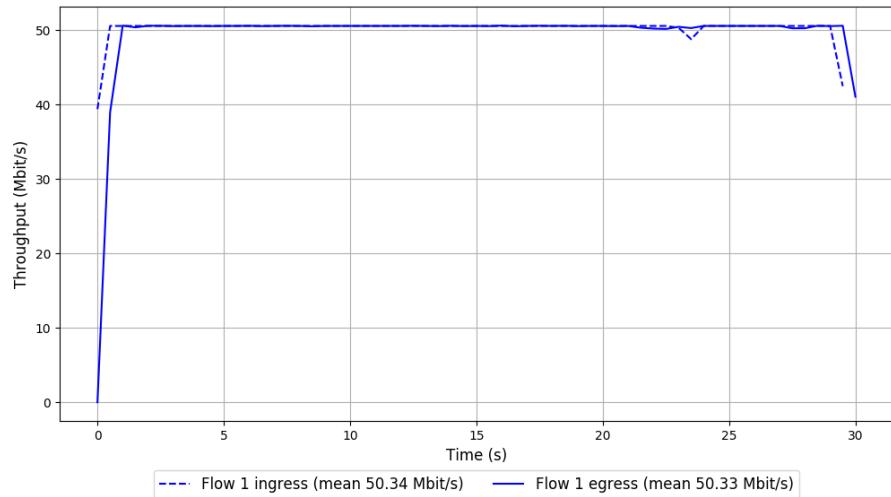


Run 1: Statistics of Sprout

```
Start at: 2019-06-28 06:06:16
End at: 2019-06-28 06:06:46
Local clock offset: -7.654 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-06-28 08:14:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 10.042 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 10.042 ms
Loss rate: 0.07%
```

Run 1: Report of Sprout — Data Link

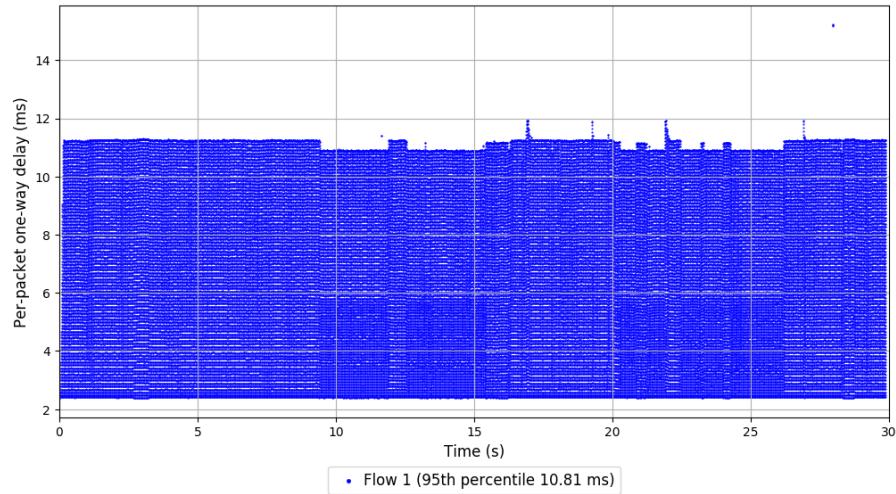
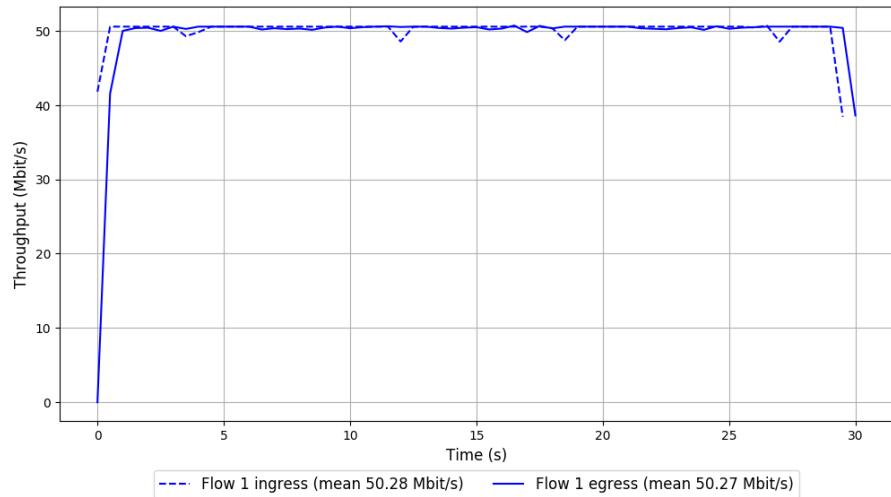


Run 2: Statistics of Sprout

```
Start at: 2019-06-28 06:31:01
End at: 2019-06-28 06:31:31
Local clock offset: -7.292 ms
Remote clock offset: 0.331 ms

# Below is generated by plot.py at 2019-06-28 08:14:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 10.810 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 10.810 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

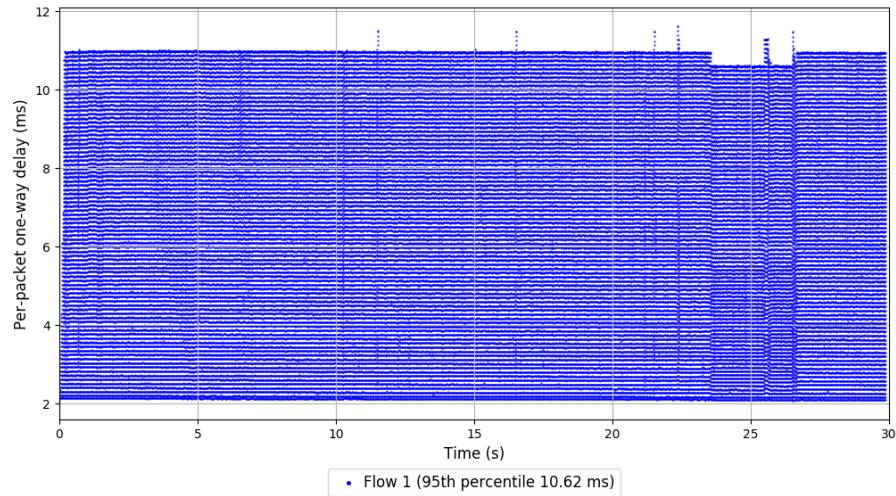
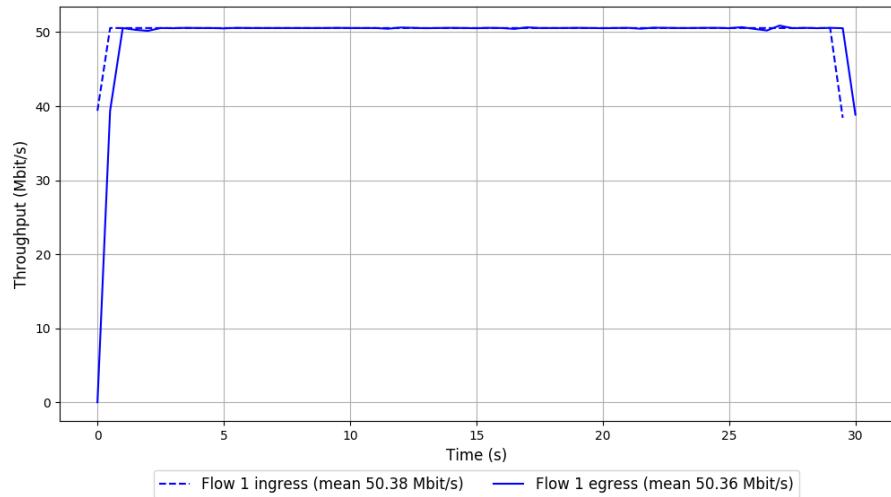


Run 3: Statistics of Sprout

```
Start at: 2019-06-28 06:55:52
End at: 2019-06-28 06:56:22
Local clock offset: -6.997 ms
Remote clock offset: 0.485 ms

# Below is generated by plot.py at 2019-06-28 08:14:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 10.625 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 10.625 ms
Loss rate: 0.01%
```

Run 3: Report of Sprout — Data Link

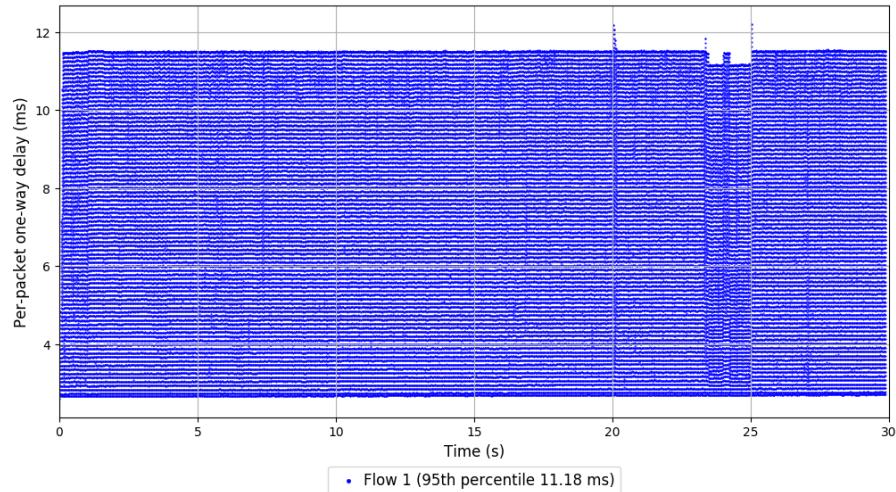
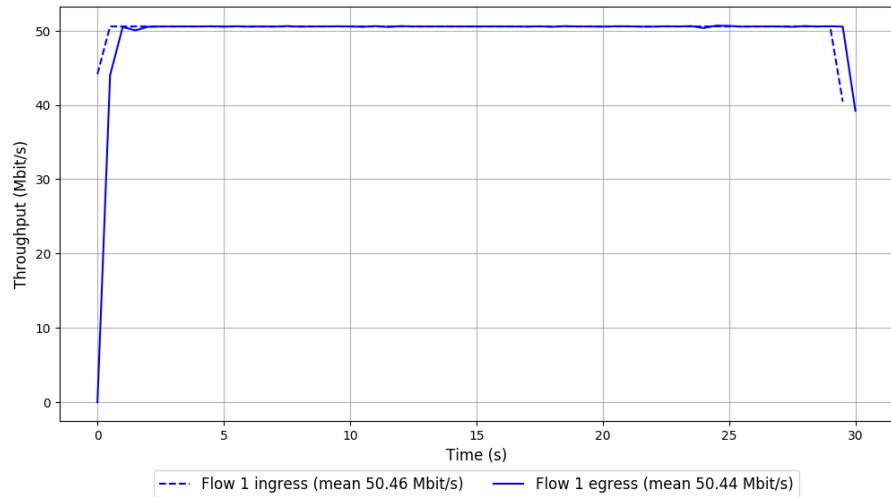


Run 4: Statistics of Sprout

```
Start at: 2019-06-28 07:20:43
End at: 2019-06-28 07:21:13
Local clock offset: -5.675 ms
Remote clock offset: 0.744 ms

# Below is generated by plot.py at 2019-06-28 08:14:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.44 Mbit/s
95th percentile per-packet one-way delay: 11.182 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.44 Mbit/s
95th percentile per-packet one-way delay: 11.182 ms
Loss rate: 0.07%
```

Run 4: Report of Sprout — Data Link

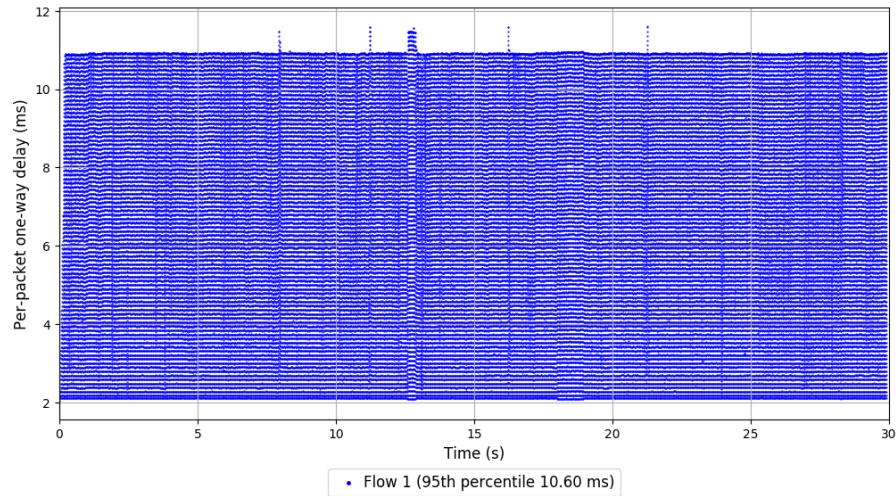
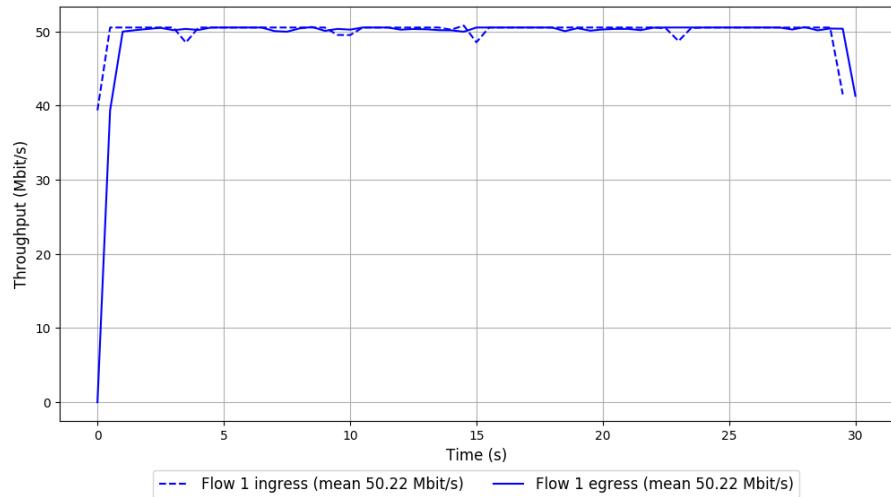


Run 5: Statistics of Sprout

```
Start at: 2019-06-28 07:45:31
End at: 2019-06-28 07:46:01
Local clock offset: -6.82 ms
Remote clock offset: 0.905 ms

# Below is generated by plot.py at 2019-06-28 08:14:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 10.600 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 10.600 ms
Loss rate: 0.04%
```

Run 5: Report of Sprout — Data Link

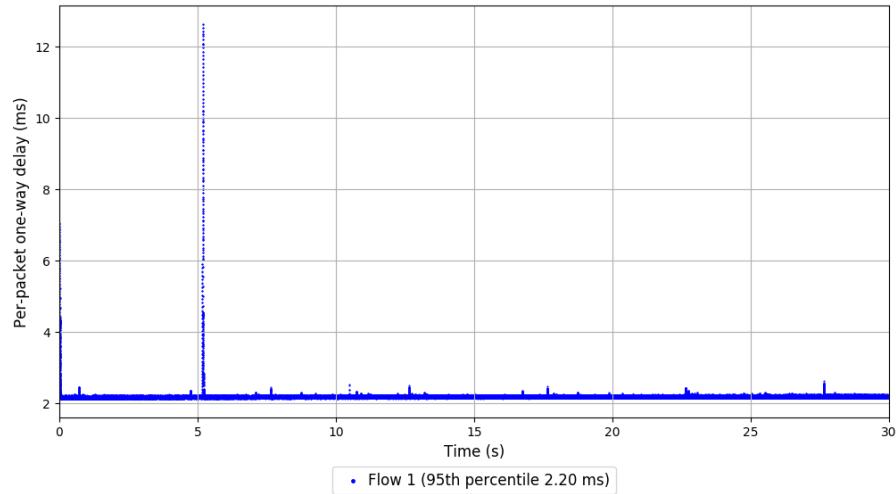
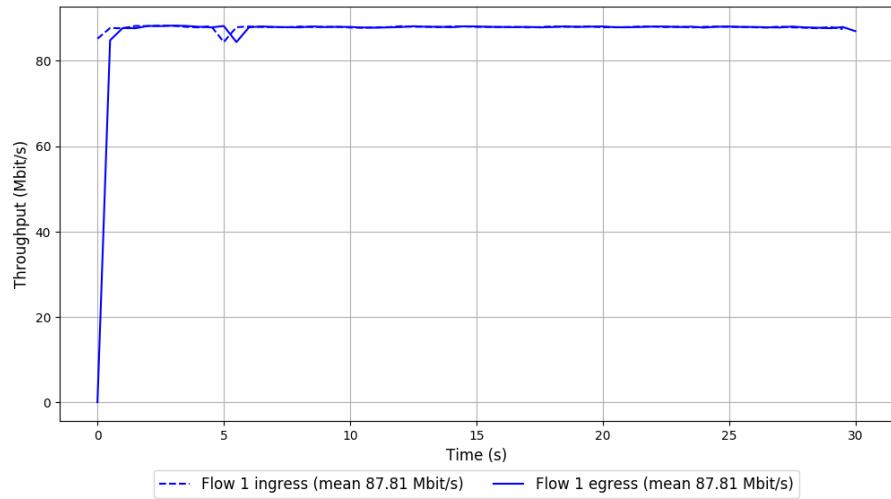


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-06-28 05:59:32
End at: 2019-06-28 06:00:02
Local clock offset: -7.419 ms
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2019-06-28 08:16:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.81 Mbit/s
95th percentile per-packet one-way delay: 2.196 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.81 Mbit/s
95th percentile per-packet one-way delay: 2.196 ms
Loss rate: 0.02%
```

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

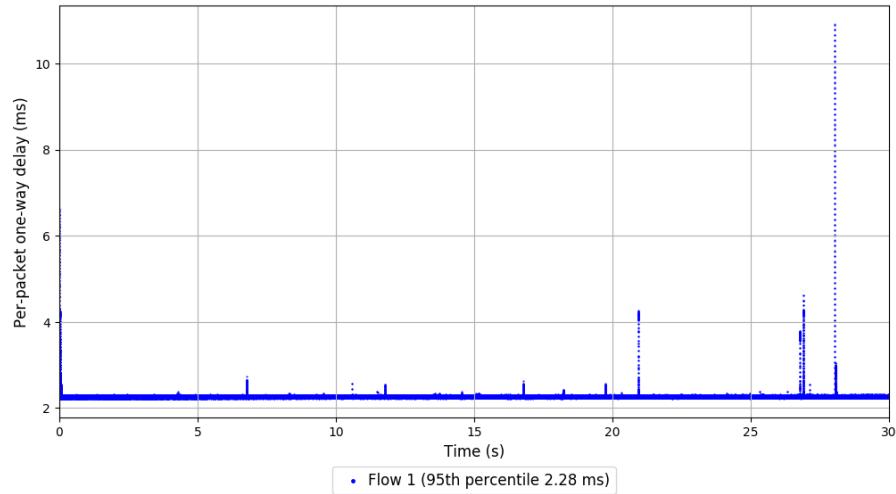
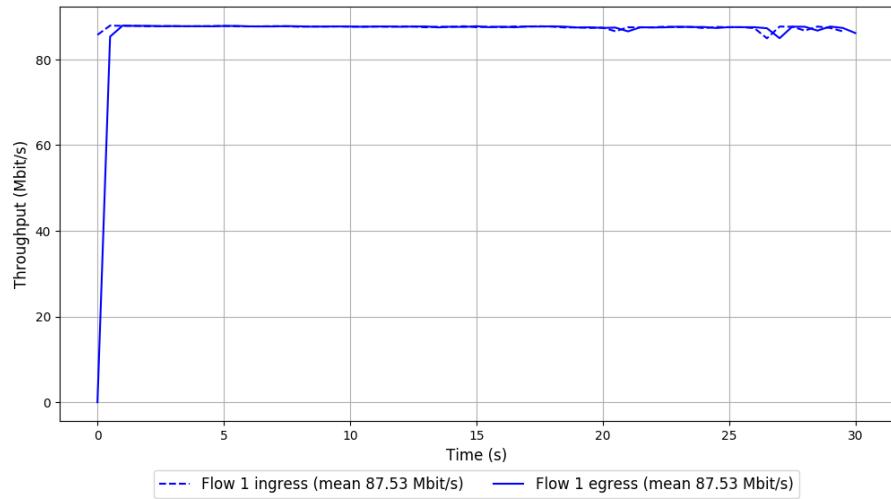


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-06-28 06:24:17
End at: 2019-06-28 06:24:47
Local clock offset: -7.42 ms
Remote clock offset: 0.173 ms

# Below is generated by plot.py at 2019-06-28 08:16:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.53 Mbit/s
95th percentile per-packet one-way delay: 2.279 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.53 Mbit/s
95th percentile per-packet one-way delay: 2.279 ms
Loss rate: 0.02%
```

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

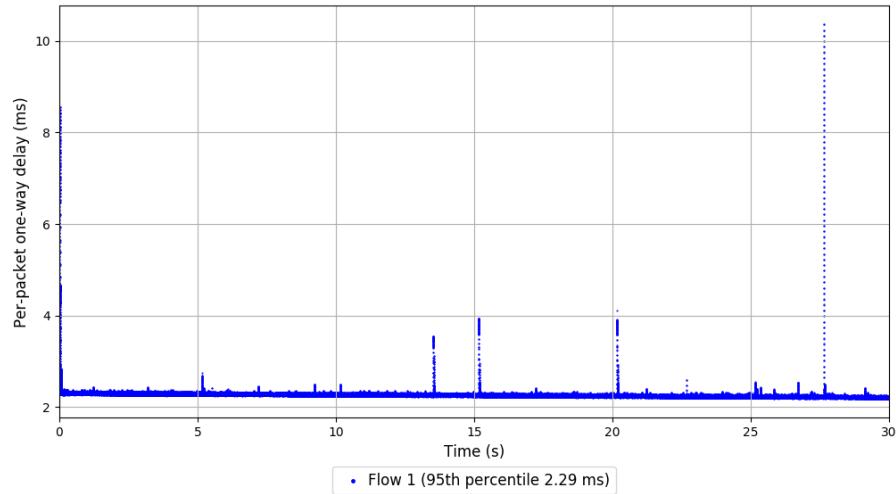
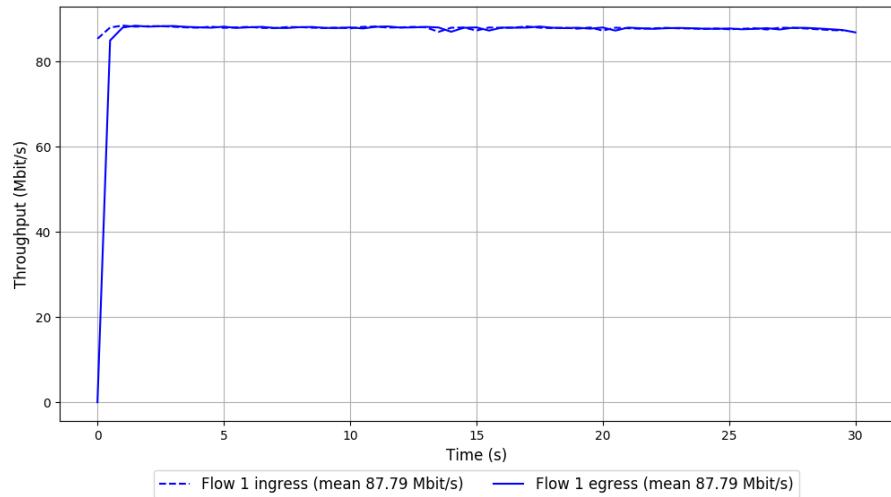


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-06-28 06:49:08
End at: 2019-06-28 06:49:38
Local clock offset: -7.214 ms
Remote clock offset: 0.501 ms

# Below is generated by plot.py at 2019-06-28 08:16:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.79 Mbit/s
95th percentile per-packet one-way delay: 2.287 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.79 Mbit/s
95th percentile per-packet one-way delay: 2.287 ms
Loss rate: 0.02%
```

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

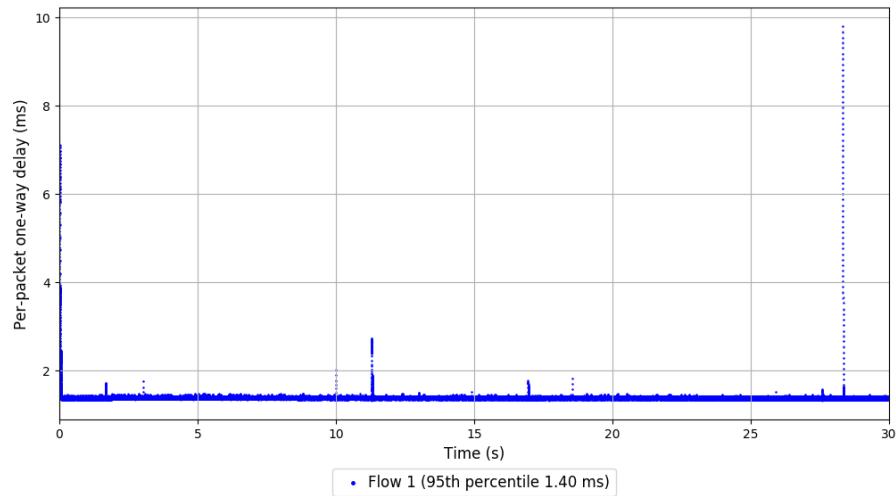
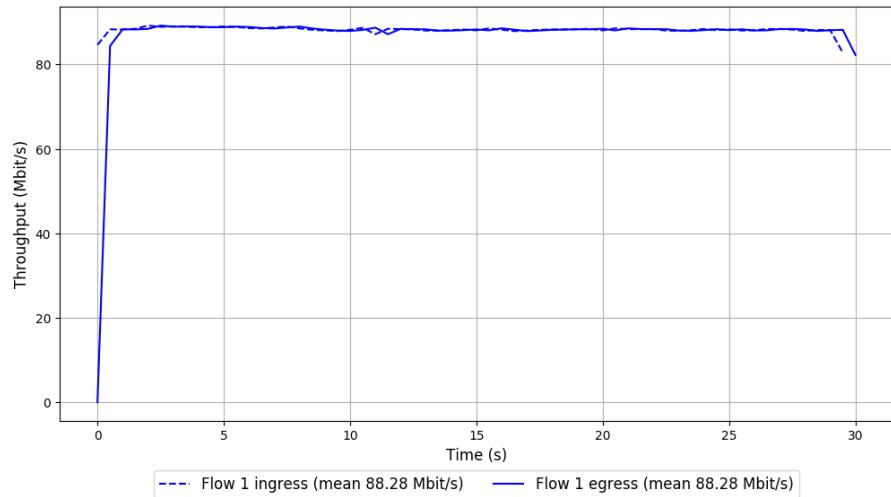


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-06-28 07:13:57
End at: 2019-06-28 07:14:27
Local clock offset: -6.344 ms
Remote clock offset: 0.611 ms

# Below is generated by plot.py at 2019-06-28 08:16:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 1.397 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 1.397 ms
Loss rate: 0.02%
```

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

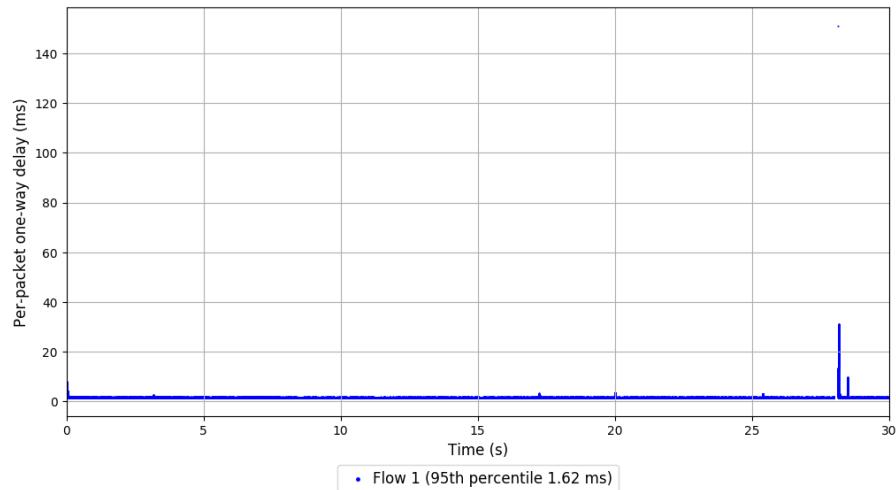
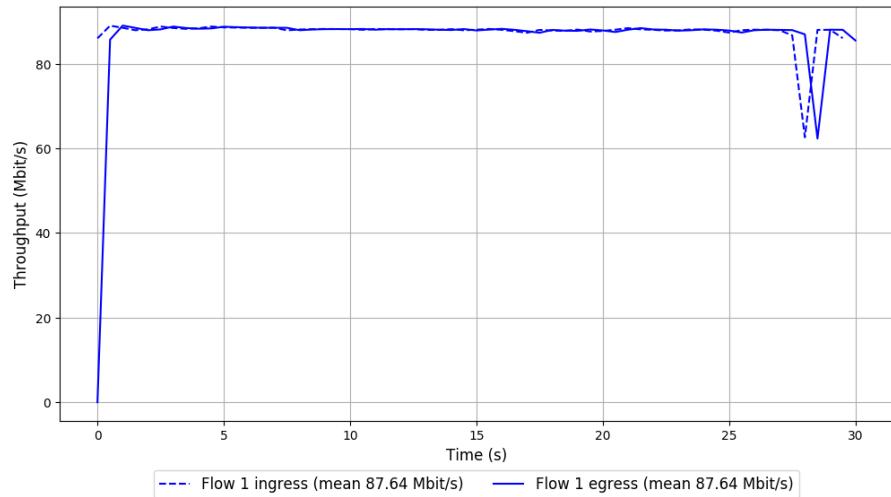


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-06-28 07:38:46
End at: 2019-06-28 07:39:16
Local clock offset: -6.819 ms
Remote clock offset: 0.852 ms

# Below is generated by plot.py at 2019-06-28 08:16:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.64 Mbit/s
95th percentile per-packet one-way delay: 1.624 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.64 Mbit/s
95th percentile per-packet one-way delay: 1.624 ms
Loss rate: 0.02%
```

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

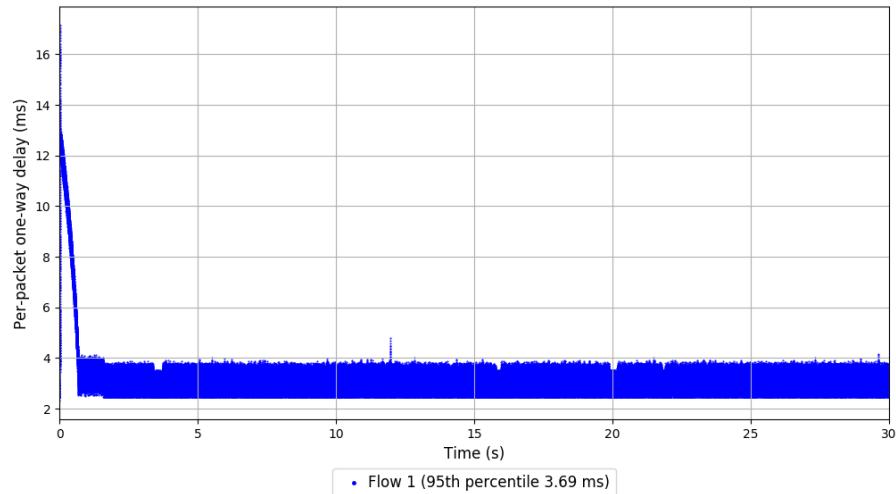
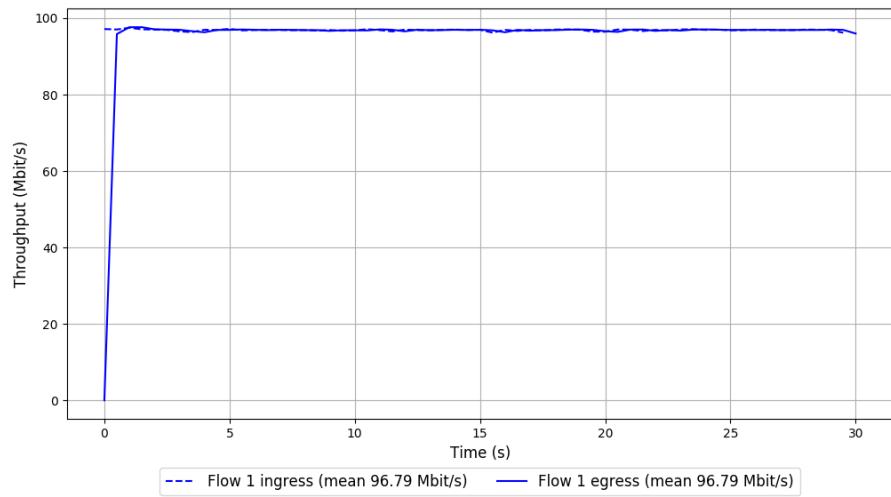


Run 1: Statistics of TCP Vegas

```
Start at: 2019-06-28 06:11:55
End at: 2019-06-28 06:12:25
Local clock offset: -6.994 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-06-28 08:16:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.79 Mbit/s
95th percentile per-packet one-way delay: 3.687 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.79 Mbit/s
95th percentile per-packet one-way delay: 3.687 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Vegas — Data Link

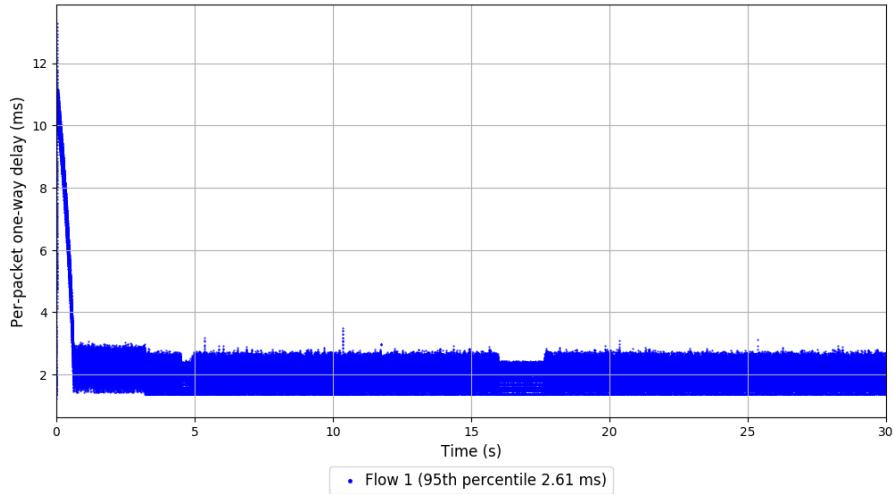
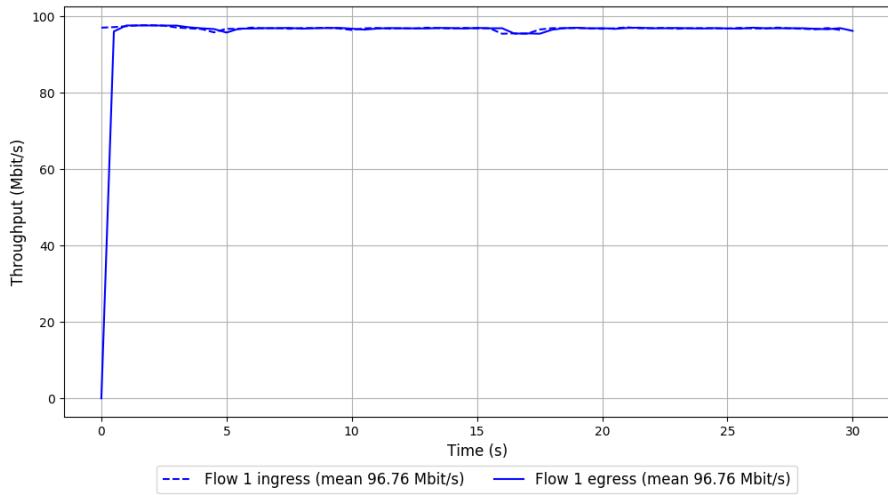


Run 2: Statistics of TCP Vegas

```
Start at: 2019-06-28 06:36:42
End at: 2019-06-28 06:37:12
Local clock offset: -8.364 ms
Remote clock offset: 0.384 ms

# Below is generated by plot.py at 2019-06-28 08:16:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 2.610 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 2.610 ms
Loss rate: 0.01%
```

Run 2: Report of TCP Vegas — Data Link

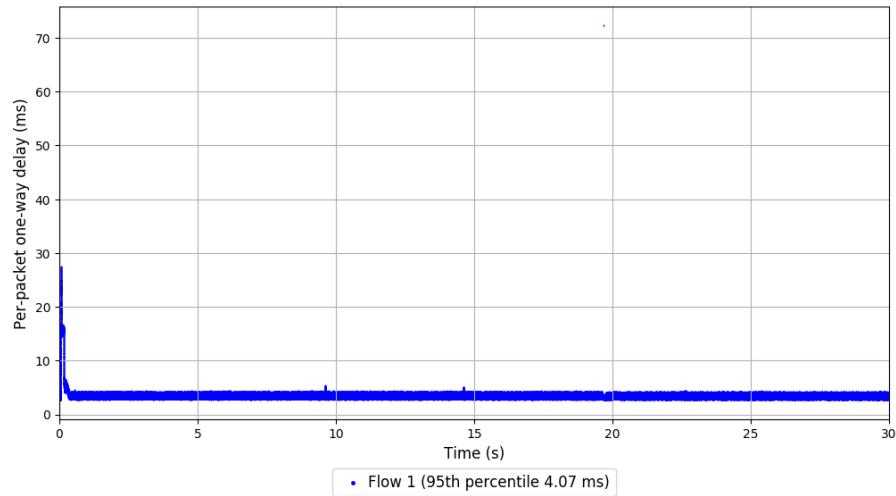
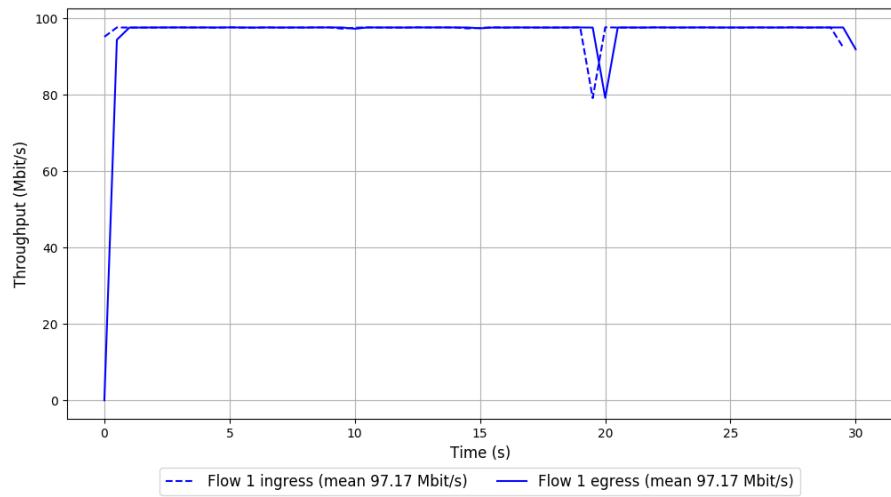


Run 3: Statistics of TCP Vegas

```
Start at: 2019-06-28 07:01:32
End at: 2019-06-28 07:02:02
Local clock offset: -6.013 ms
Remote clock offset: 0.505 ms

# Below is generated by plot.py at 2019-06-28 08:16:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 4.067 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 4.067 ms
Loss rate: 0.02%
```

Run 3: Report of TCP Vegas — Data Link

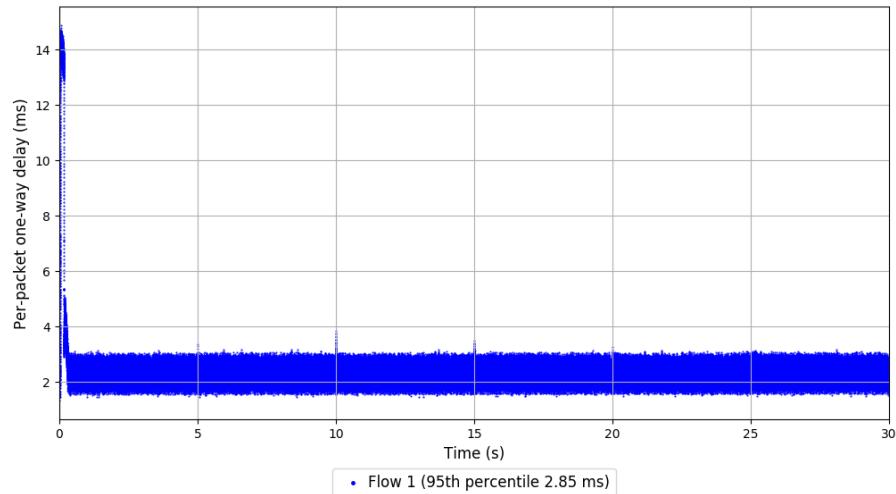
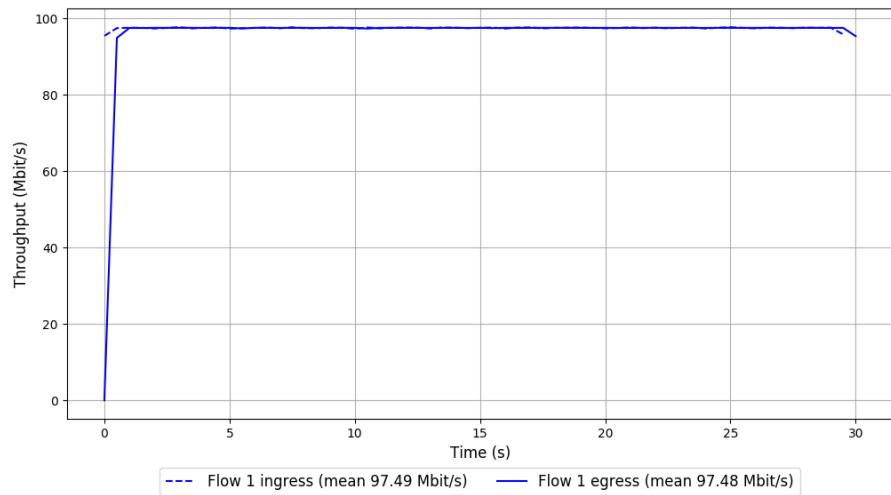


Run 4: Statistics of TCP Vegas

```
Start at: 2019-06-28 07:26:23
End at: 2019-06-28 07:26:53
Local clock offset: -6.797 ms
Remote clock offset: 0.699 ms

# Below is generated by plot.py at 2019-06-28 08:16:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 2.847 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 2.847 ms
Loss rate: 0.02%
```

Run 4: Report of TCP Vegas — Data Link

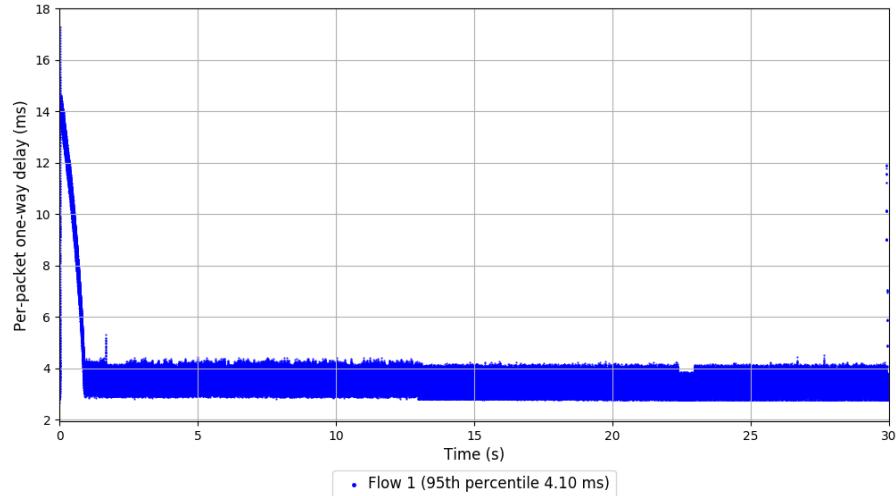
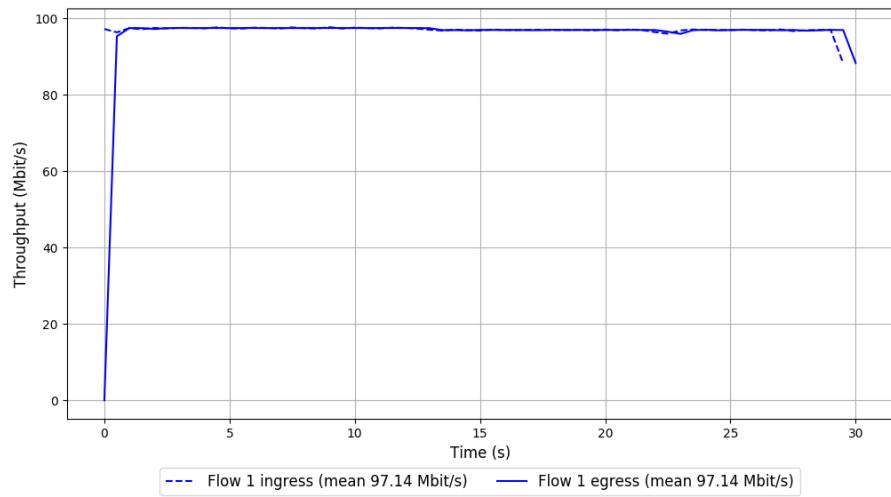


Run 5: Statistics of TCP Vegas

```
Start at: 2019-06-28 07:51:11
End at: 2019-06-28 07:51:41
Local clock offset: -5.818 ms
Remote clock offset: 0.978 ms

# Below is generated by plot.py at 2019-06-28 08:16:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 4.097 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 4.097 ms
Loss rate: 0.01%
```

Run 5: Report of TCP Vegas — Data Link

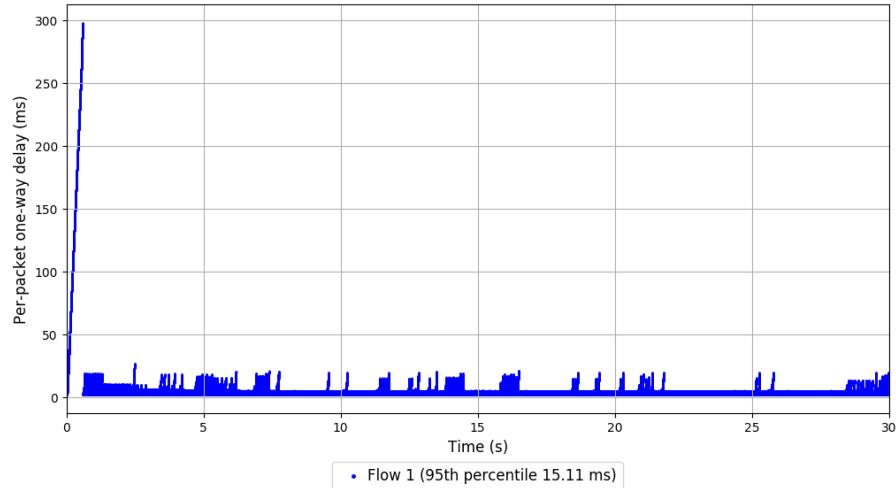
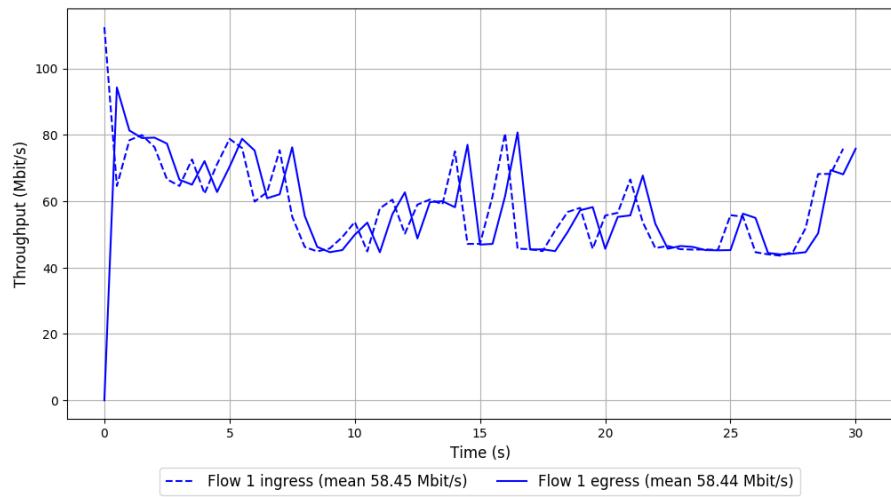


Run 1: Statistics of Verus

```
Start at: 2019-06-28 06:18:43
End at: 2019-06-28 06:19:13
Local clock offset: -7.924 ms
Remote clock offset: 0.086 ms

# Below is generated by plot.py at 2019-06-28 08:16:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.44 Mbit/s
95th percentile per-packet one-way delay: 15.112 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 58.44 Mbit/s
95th percentile per-packet one-way delay: 15.112 ms
Loss rate: 0.02%
```

Run 1: Report of Verus — Data Link

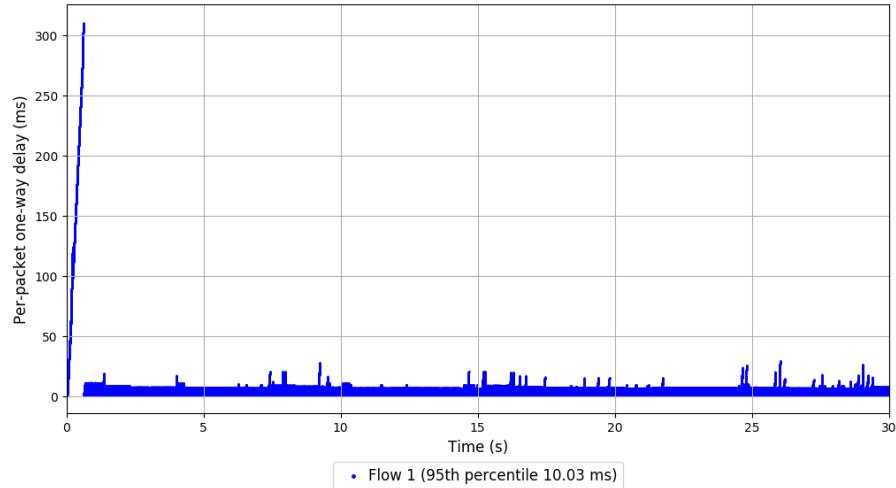
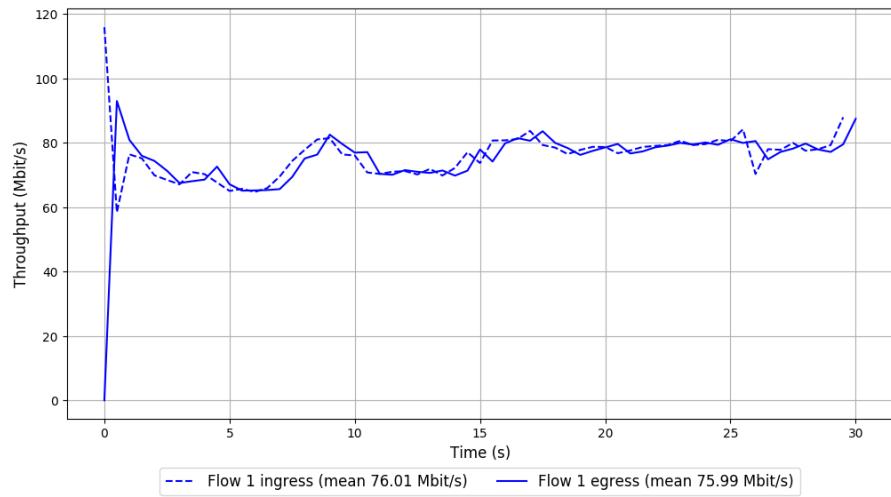


Run 2: Statistics of Verus

```
Start at: 2019-06-28 06:43:32
End at: 2019-06-28 06:44:02
Local clock offset: -8.462 ms
Remote clock offset: 0.373 ms

# Below is generated by plot.py at 2019-06-28 08:17:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 10.031 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 10.031 ms
Loss rate: 0.04%
```

Run 2: Report of Verus — Data Link

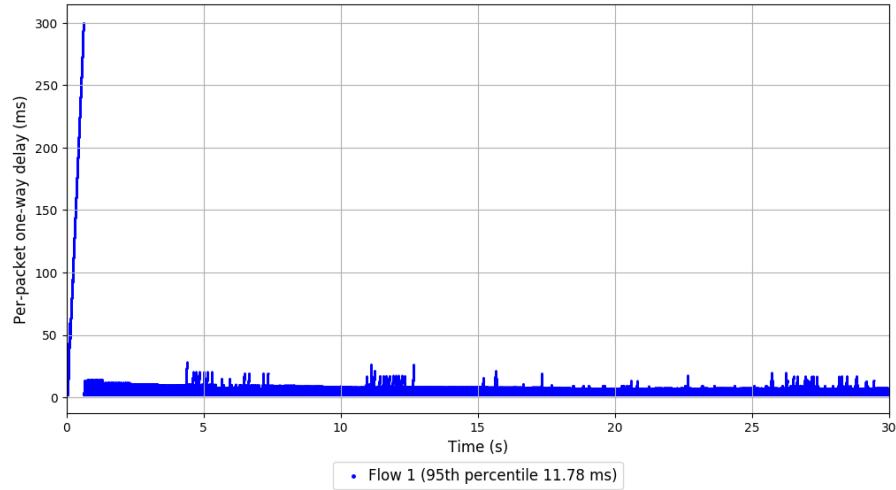
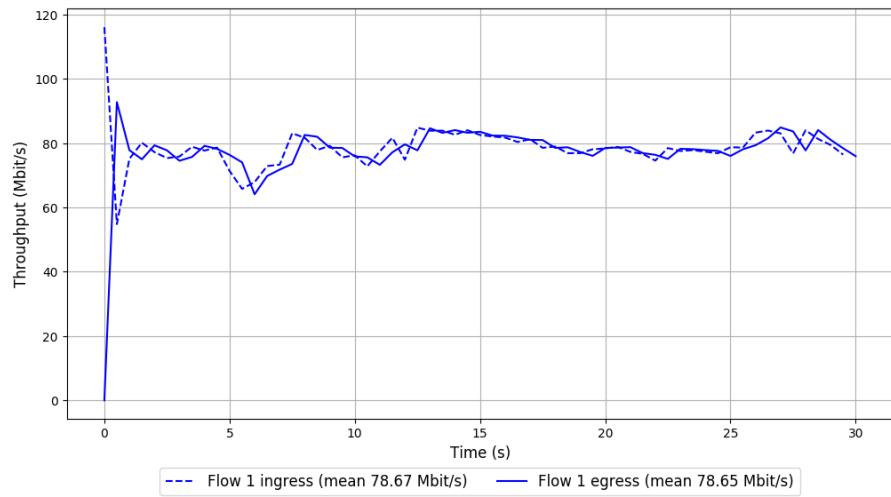


Run 3: Statistics of Verus

```
Start at: 2019-06-28 07:08:22
End at: 2019-06-28 07:08:52
Local clock offset: -5.662 ms
Remote clock offset: 0.64 ms

# Below is generated by plot.py at 2019-06-28 08:17:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.65 Mbit/s
95th percentile per-packet one-way delay: 11.782 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 78.65 Mbit/s
95th percentile per-packet one-way delay: 11.782 ms
Loss rate: 0.04%
```

Run 3: Report of Verus — Data Link

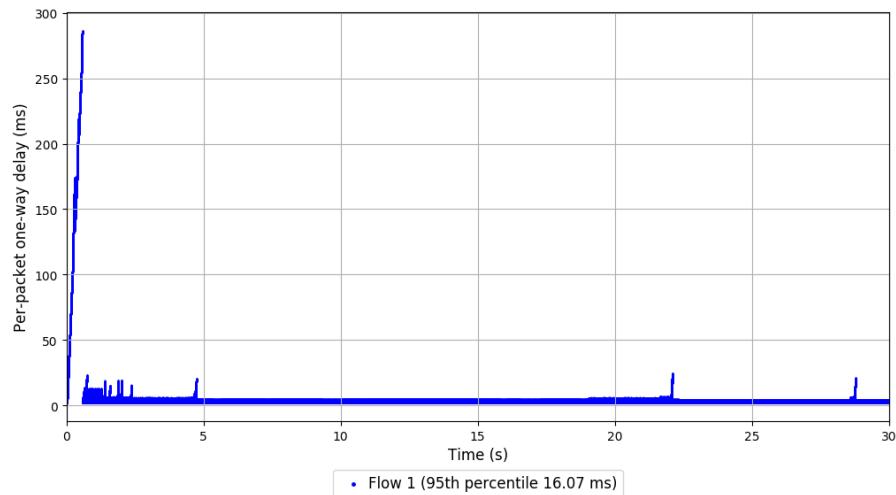
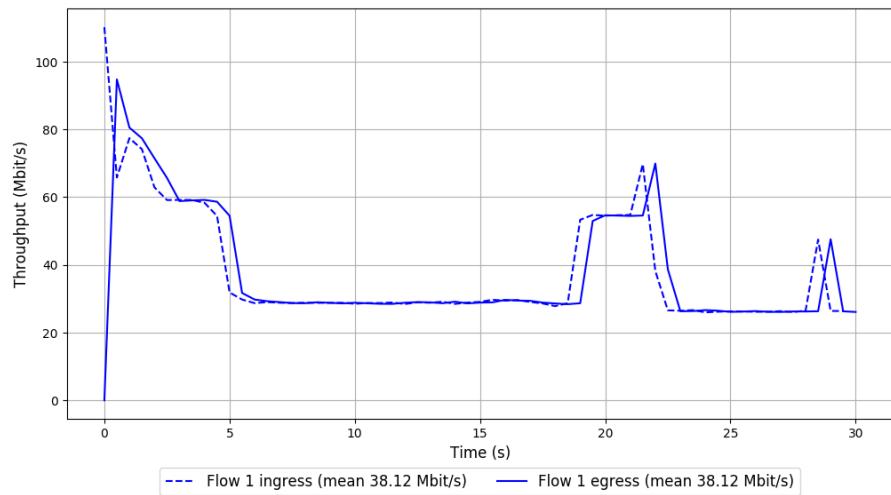


Run 4: Statistics of Verus

```
Start at: 2019-06-28 07:33:13
End at: 2019-06-28 07:33:43
Local clock offset: -6.156 ms
Remote clock offset: 0.732 ms

# Below is generated by plot.py at 2019-06-28 08:17:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.12 Mbit/s
95th percentile per-packet one-way delay: 16.073 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 38.12 Mbit/s
95th percentile per-packet one-way delay: 16.073 ms
Loss rate: 0.03%
```

Run 4: Report of Verus — Data Link

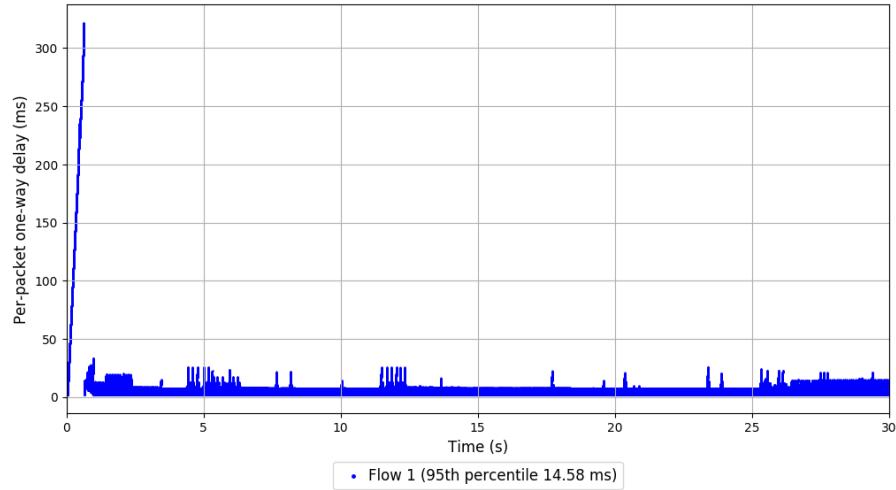
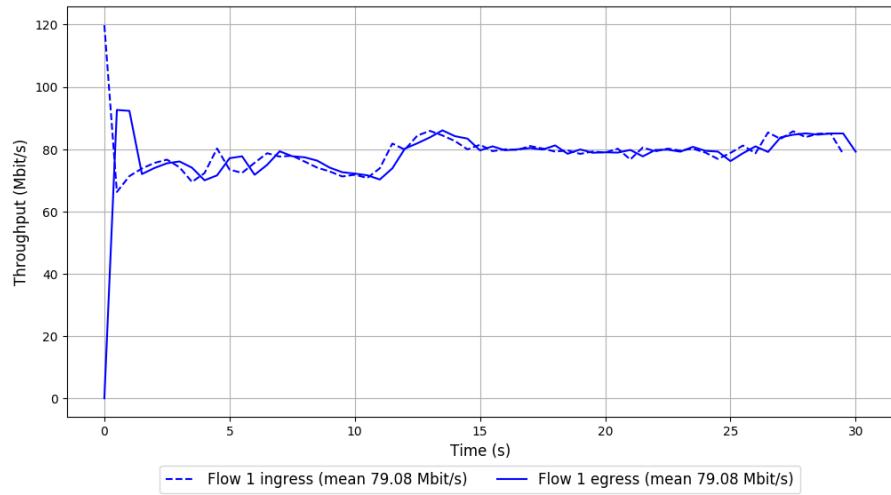


Run 5: Statistics of Verus

```
Start at: 2019-06-28 07:58:05
End at: 2019-06-28 07:58:35
Local clock offset: -6.565 ms
Remote clock offset: 0.809 ms

# Below is generated by plot.py at 2019-06-28 08:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.08 Mbit/s
95th percentile per-packet one-way delay: 14.581 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 79.08 Mbit/s
95th percentile per-packet one-way delay: 14.581 ms
Loss rate: 0.01%
```

Run 5: Report of Verus — Data Link

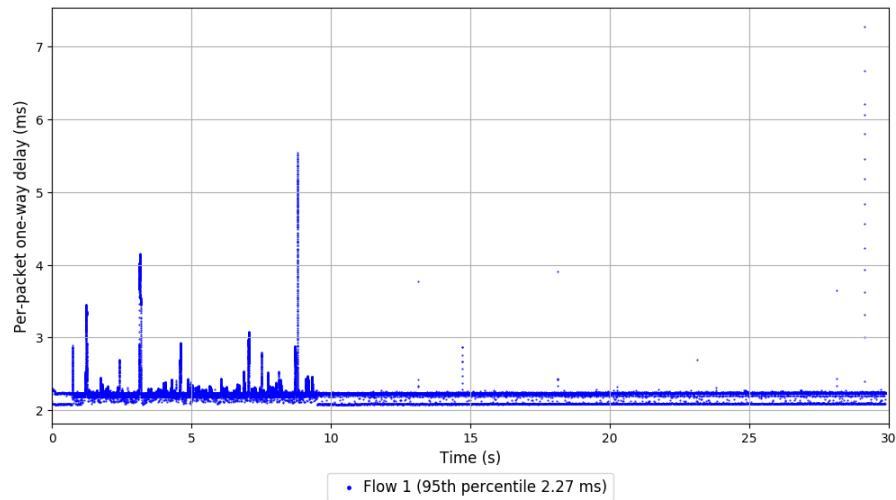
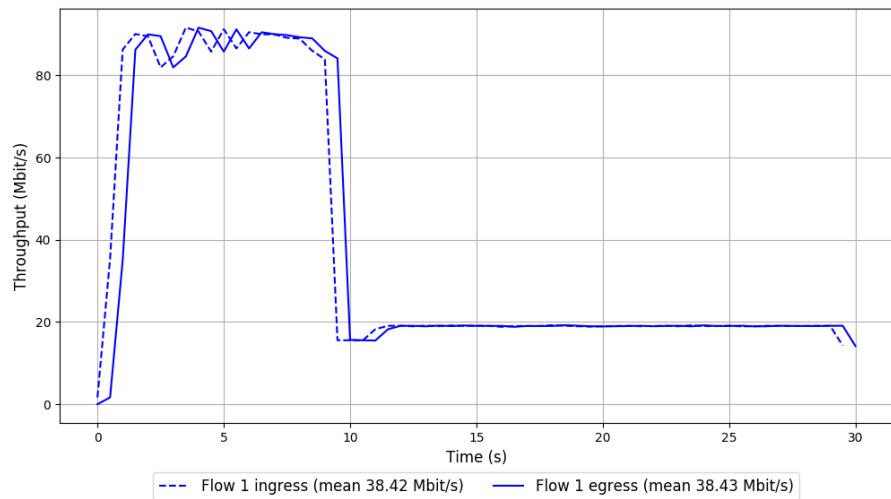


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-06-28 06:16:31
End at: 2019-06-28 06:17:01
Local clock offset: -7.314 ms
Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2019-06-28 08:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.43 Mbit/s
95th percentile per-packet one-way delay: 2.272 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 38.43 Mbit/s
95th percentile per-packet one-way delay: 2.272 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Vivace — Data Link

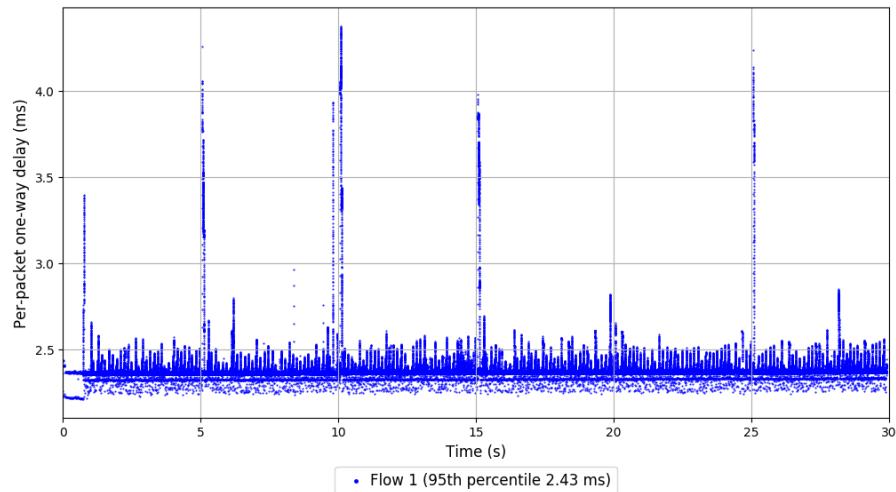
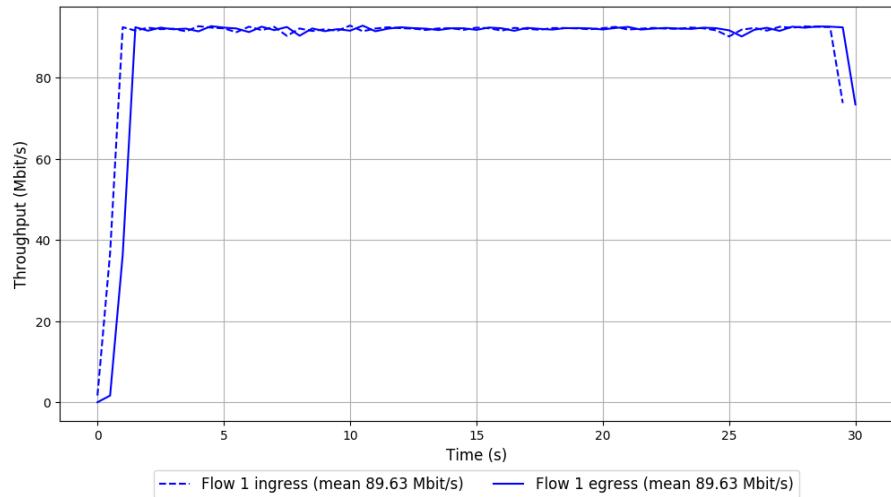


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-06-28 06:41:19
End at: 2019-06-28 06:41:49
Local clock offset: -7.409 ms
Remote clock offset: 0.429 ms

# Below is generated by plot.py at 2019-06-28 08:17:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.63 Mbit/s
95th percentile per-packet one-way delay: 2.428 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 89.63 Mbit/s
95th percentile per-packet one-way delay: 2.428 ms
Loss rate: 0.02%
```

Run 2: Report of PCC-Vivace — Data Link

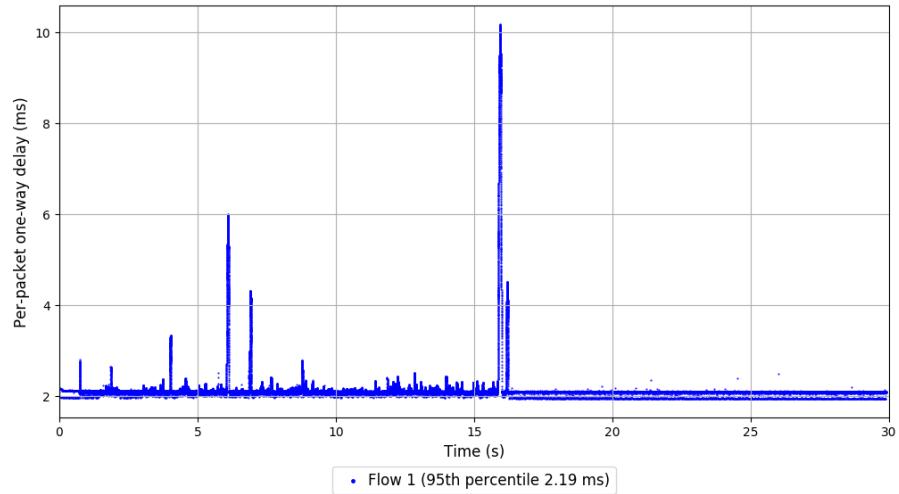
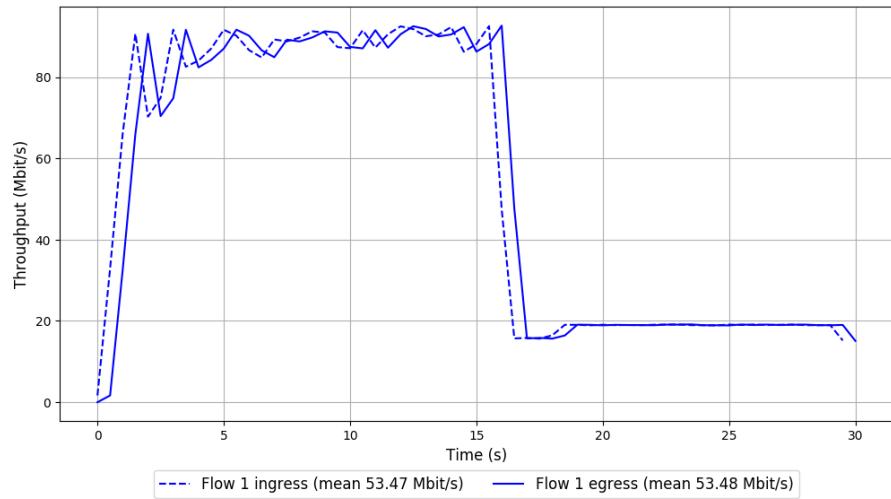


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-06-28 07:06:08
End at: 2019-06-28 07:06:38
Local clock offset: -5.751 ms
Remote clock offset: 0.646 ms

# Below is generated by plot.py at 2019-06-28 08:17:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.48 Mbit/s
95th percentile per-packet one-way delay: 2.185 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 53.48 Mbit/s
95th percentile per-packet one-way delay: 2.185 ms
Loss rate: 0.01%
```

Run 3: Report of PCC-Vivace — Data Link

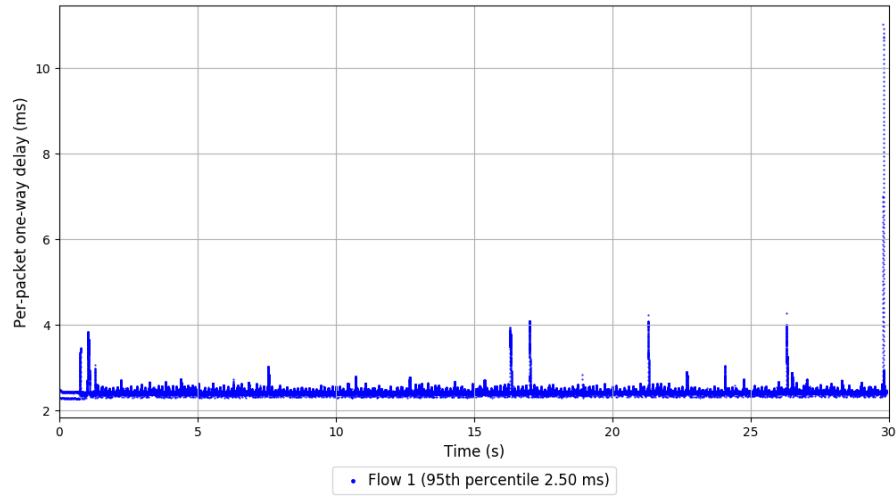
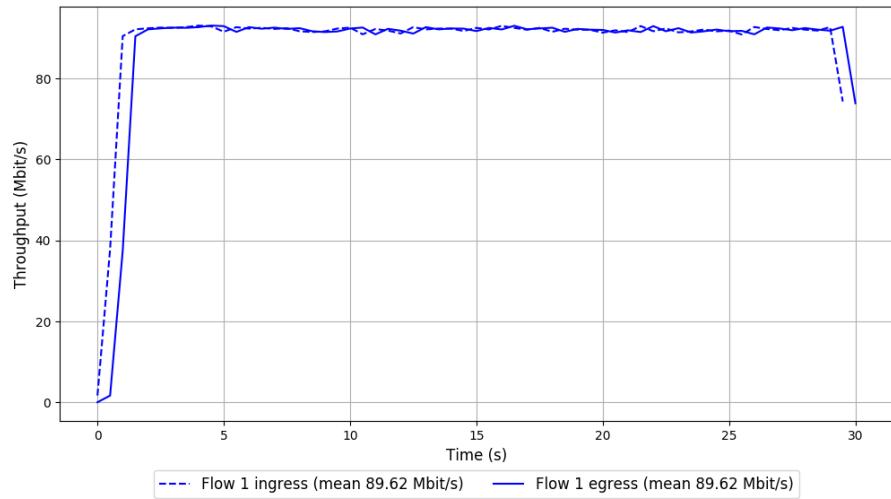


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-06-28 07:31:00
End at: 2019-06-28 07:31:30
Local clock offset: -5.907 ms
Remote clock offset: 0.742 ms

# Below is generated by plot.py at 2019-06-28 08:17:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.62 Mbit/s
95th percentile per-packet one-way delay: 2.497 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 89.62 Mbit/s
95th percentile per-packet one-way delay: 2.497 ms
Loss rate: 0.02%
```

Run 4: Report of PCC-Vivace — Data Link

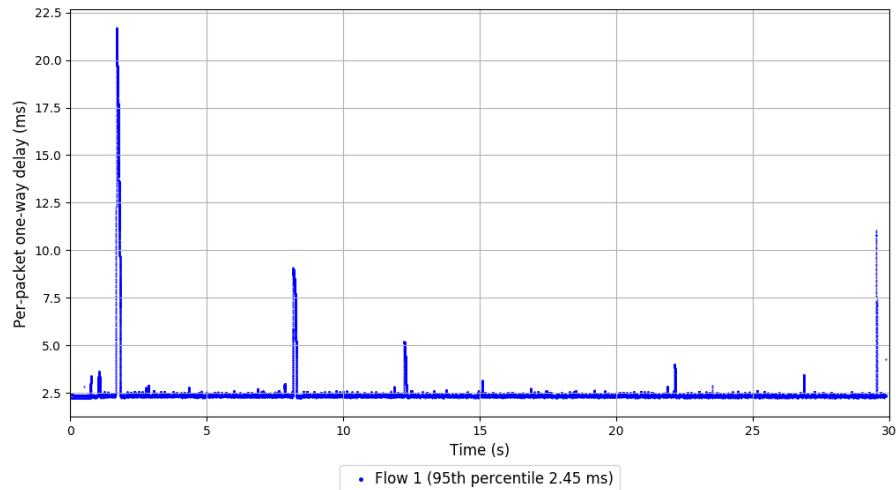
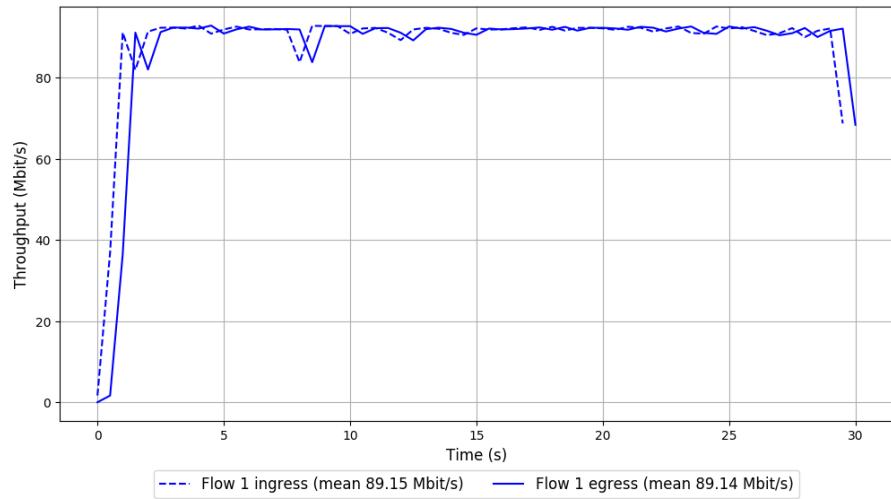


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-06-28 07:55:48
End at: 2019-06-28 07:56:18
Local clock offset: -5.701 ms
Remote clock offset: 0.819 ms

# Below is generated by plot.py at 2019-06-28 08:17:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.14 Mbit/s
95th percentile per-packet one-way delay: 2.454 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 89.14 Mbit/s
95th percentile per-packet one-way delay: 2.454 ms
Loss rate: 0.01%
```

Run 5: Report of PCC-Vivace — Data Link

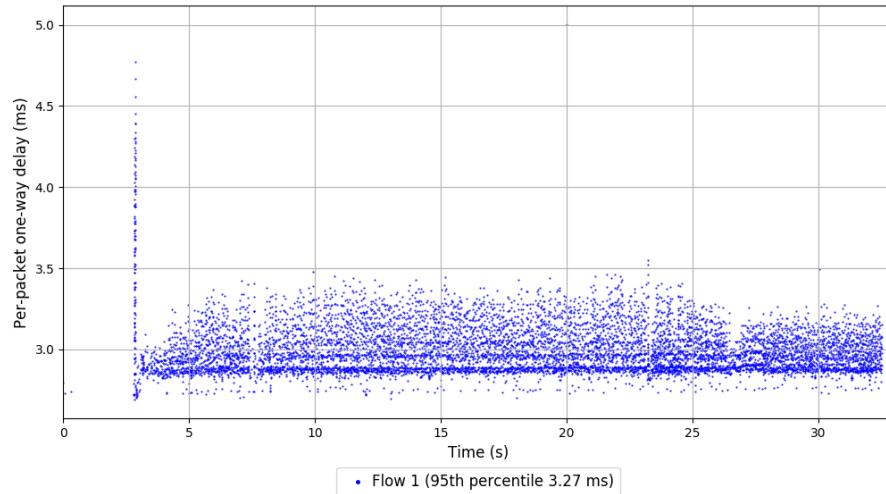
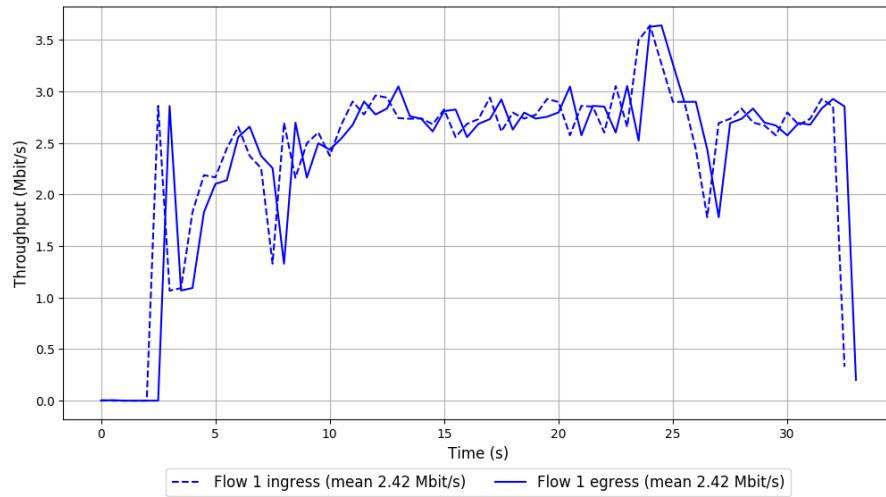


```
Run 1: Statistics of WebRTC media

Start at: 2019-06-28 06:20:57
End at: 2019-06-28 06:21:27
Local clock offset: -7.15 ms
Remote clock offset: 0.186 ms

# Below is generated by plot.py at 2019-06-28 08:17:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 3.270 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 3.270 ms
Loss rate: 0.08%
```

Run 1: Report of WebRTC media — Data Link

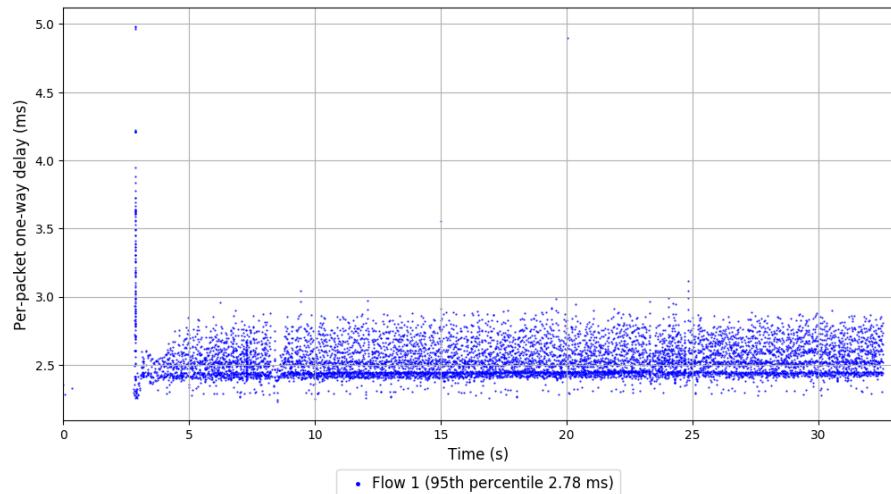
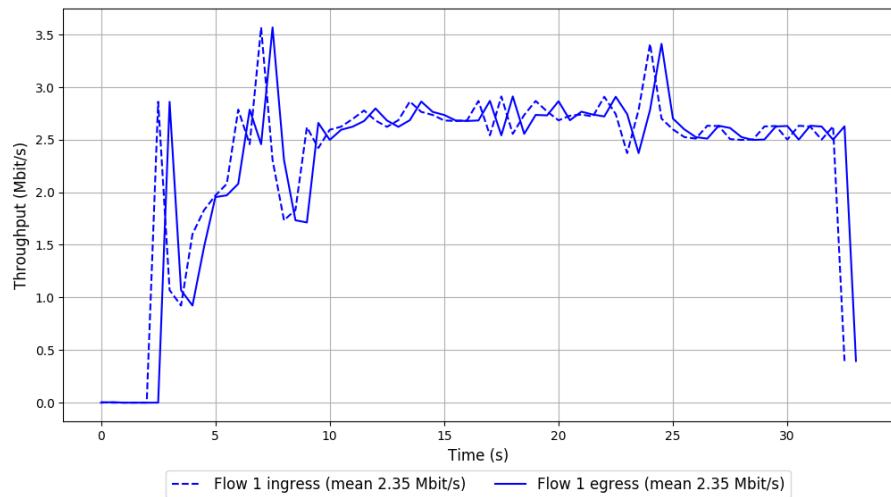


Run 2: Statistics of WebRTC media

```
Start at: 2019-06-28 06:45:48
End at: 2019-06-28 06:46:18
Local clock offset: -7.462 ms
Remote clock offset: 0.463 ms

# Below is generated by plot.py at 2019-06-28 08:17:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.781 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.781 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

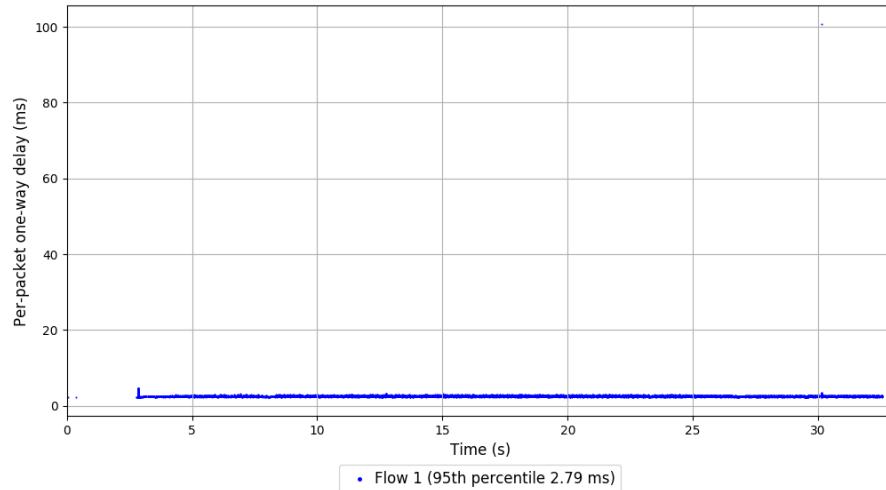
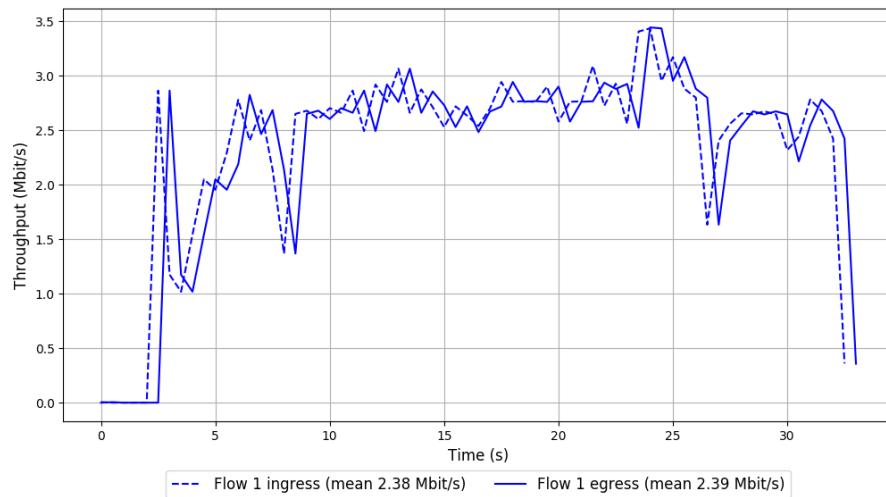


```
Run 3: Statistics of WebRTC media

Start at: 2019-06-28 07:10:37
End at: 2019-06-28 07:11:07
Local clock offset: -5.37 ms
Remote clock offset: 0.654 ms

# Below is generated by plot.py at 2019-06-28 08:17:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 2.792 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 2.792 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

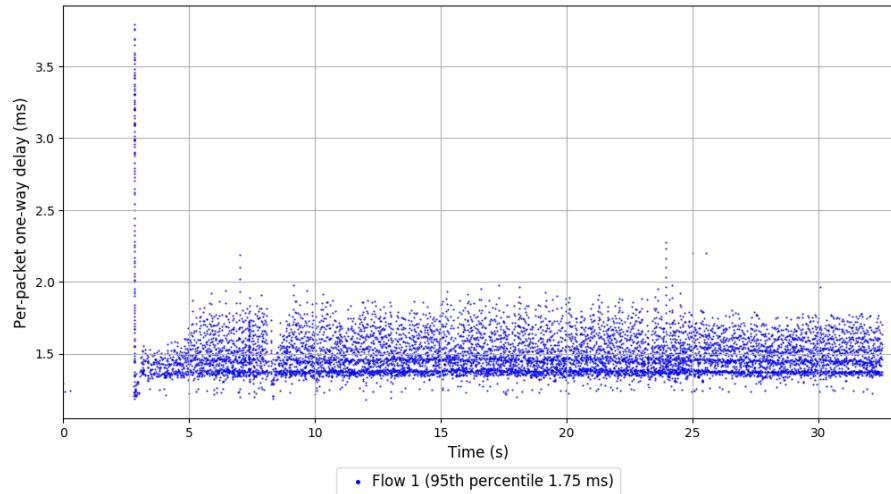
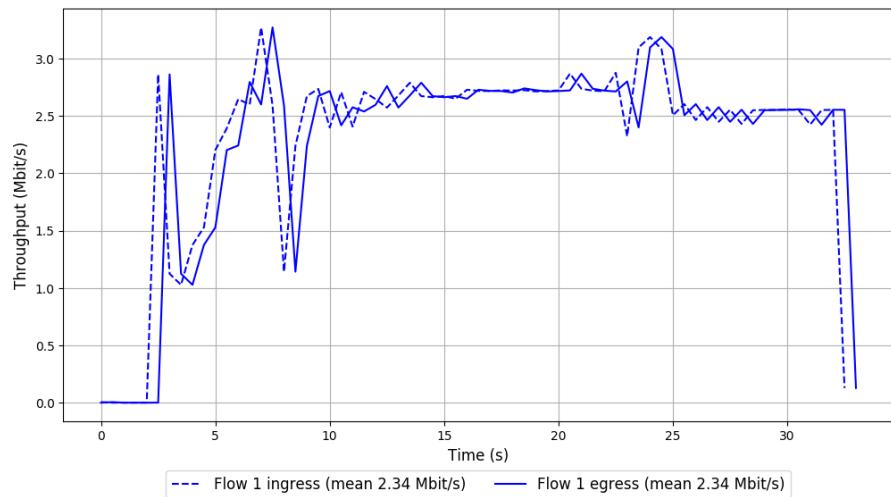


Run 4: Statistics of WebRTC media

```
Start at: 2019-06-28 07:35:27
End at: 2019-06-28 07:35:57
Local clock offset: -7.066 ms
Remote clock offset: 0.797 ms

# Below is generated by plot.py at 2019-06-28 08:17:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 1.755 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 1.755 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-06-28 08:00:20
End at: 2019-06-28 08:00:50
Local clock offset: -5.512 ms
Remote clock offset: 0.829 ms

# Below is generated by plot.py at 2019-06-28 08:17:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 2.880 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 2.880 ms
Loss rate: 0.09%
```

Run 5: Report of WebRTC media — Data Link

