

Pantheon Report

Generated at 2019-06-27 21:20:23 (UTC).
Data path: AWS Brazil 1 on ens5 (*local*) → Brazil on p4p1 (*remote*).
Repeated the test of 22 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

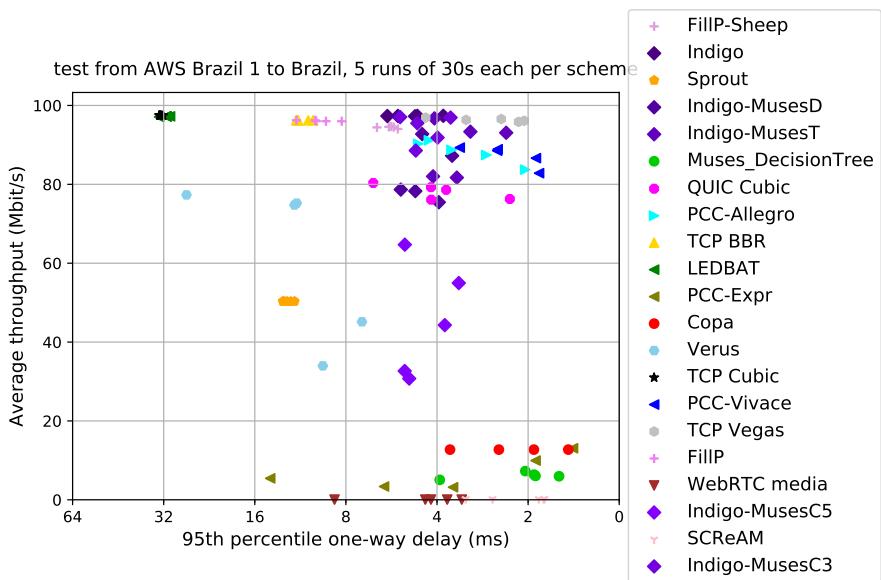
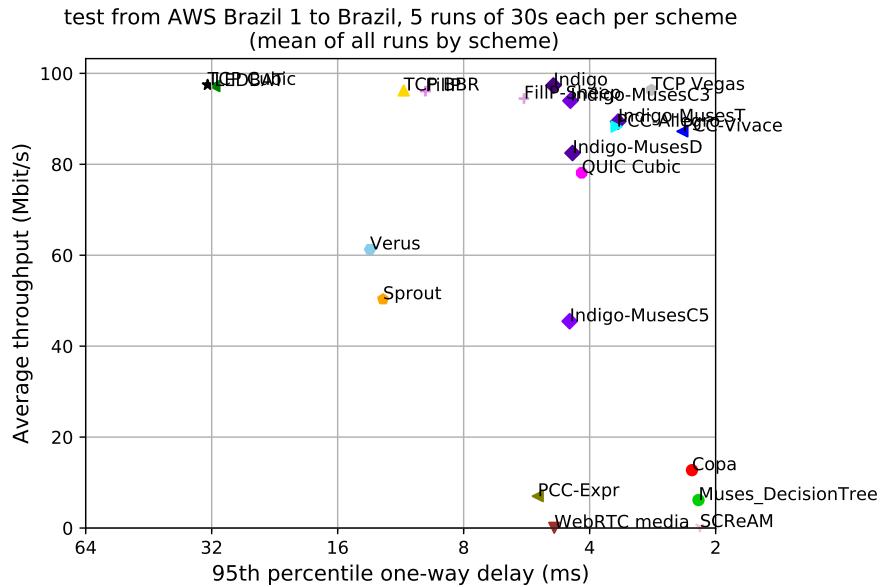
System info:

```
Linux 4.15.0-1039-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

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

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



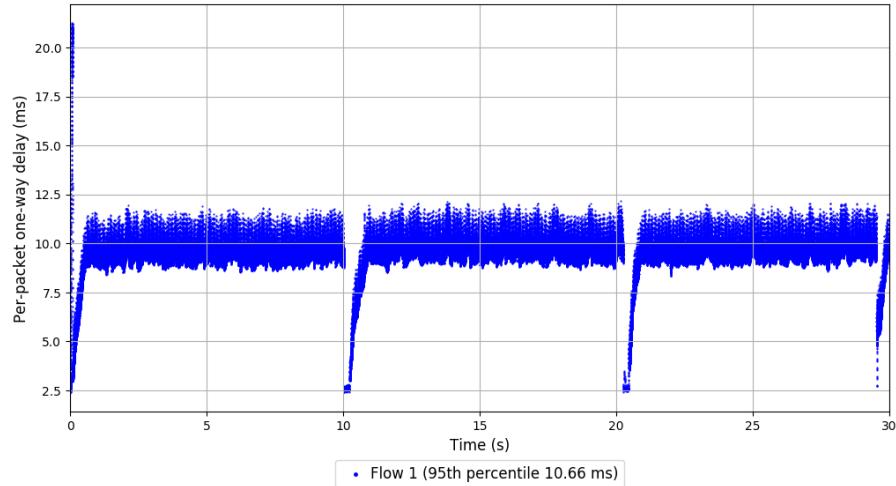
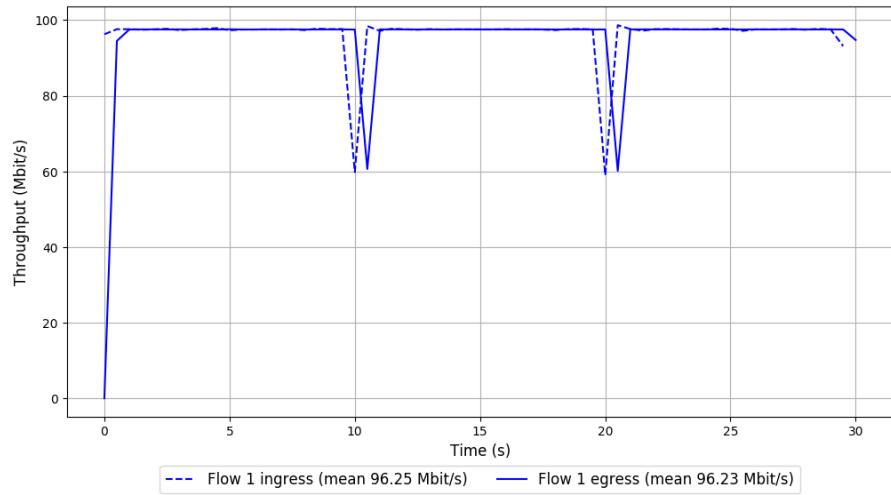
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.24	11.12	0.01
Copa	4	12.73	2.28	65.95
TCP Cubic	5	97.47	32.73	0.01
FillP	5	96.09	9.87	0.29
FillP-Sheep	5	94.45	5.74	0.08
Indigo	5	97.34	4.88	0.00
Indigo-MusesC3	5	93.98	4.45	0.00
Indigo-MusesC5	5	45.48	4.47	0.00
Indigo-MusesD	5	82.48	4.40	0.00
Indigo-MusesT	5	89.37	3.42	0.00
LEDBAT	5	97.21	31.53	0.01
Muses_DecisionTree	5	6.15	2.20	0.00
PCC-Allegro	5	88.27	3.45	0.00
PCC-Expr	5	7.00	5.32	22.74
QUIC Cubic	5	78.12	4.18	0.29
SCReAM	5	0.22	2.18	0.00
Sprout	5	50.33	12.47	0.01
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	96.36	2.85	0.00
Verus	5	61.28	13.39	1.25
PCC-Vivace	5	87.24	2.40	0.00
WebRTC media	5	0.05	4.86	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-06-27 19:19:16
End at: 2019-06-27 19:19:46
Local clock offset: -5.354 ms
Remote clock offset: -0.406 ms

# Below is generated by plot.py at 2019-06-27 21:10:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 10.658 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 10.658 ms
Loss rate: 0.01%
```

Run 1: Report of TCP BBR — Data Link

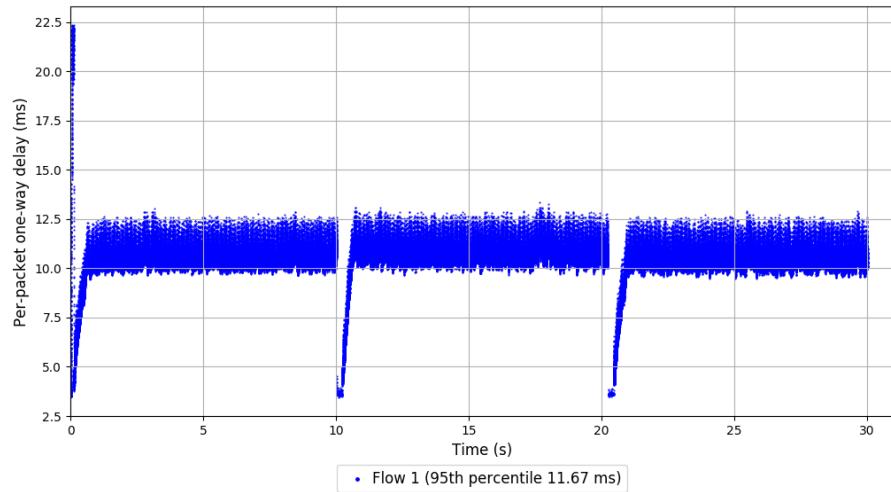
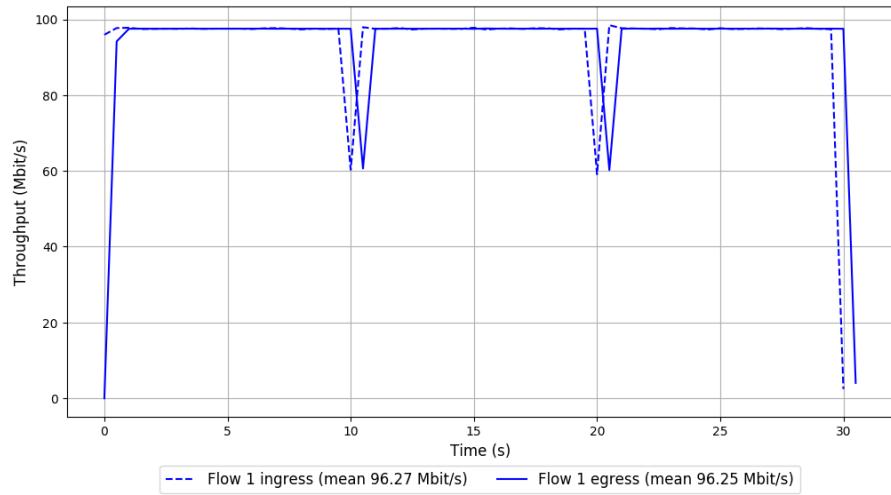


Run 2: Statistics of TCP BBR

```
Start at: 2019-06-27 19:43:49
End at: 2019-06-27 19:44:19
Local clock offset: -5.889 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2019-06-27 21:10:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 11.667 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 11.667 ms
Loss rate: 0.01%
```

Run 2: Report of TCP BBR — Data Link

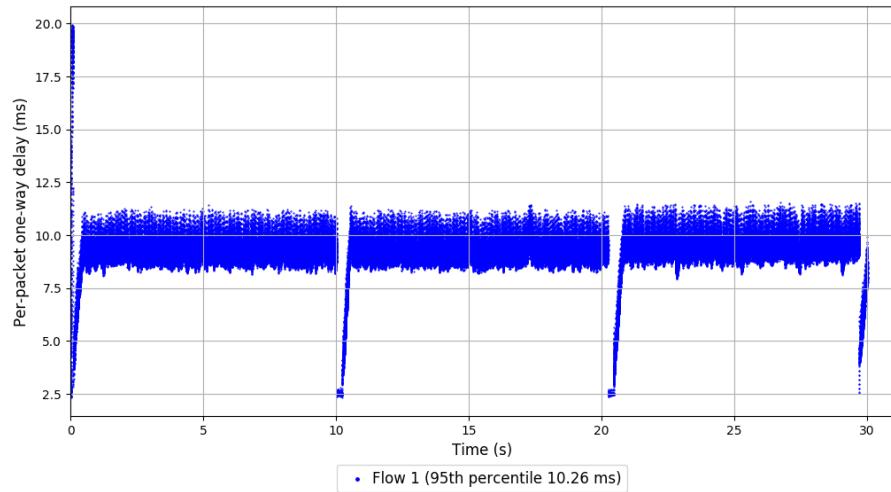
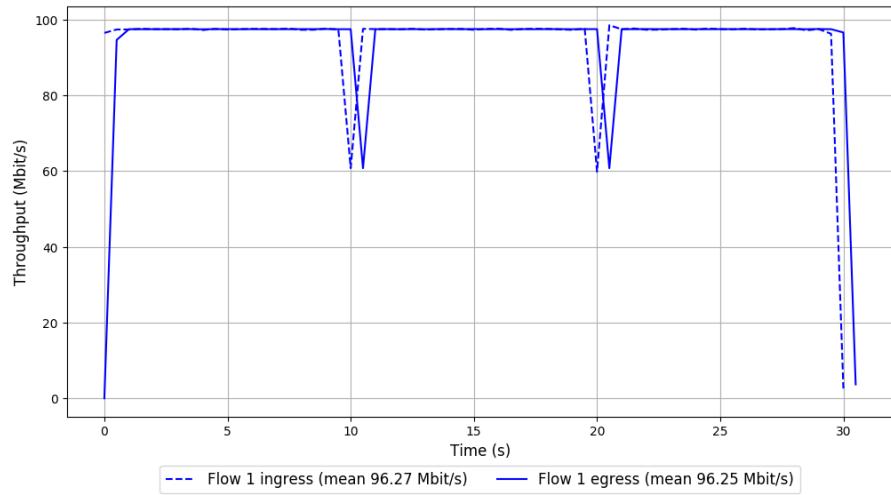


Run 3: Statistics of TCP BBR

```
Start at: 2019-06-27 20:08:20
End at: 2019-06-27 20:08:50
Local clock offset: -4.752 ms
Remote clock offset: 0.309 ms

# Below is generated by plot.py at 2019-06-27 21:10:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 10.260 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 10.260 ms
Loss rate: 0.01%
```

Run 3: Report of TCP BBR — Data Link

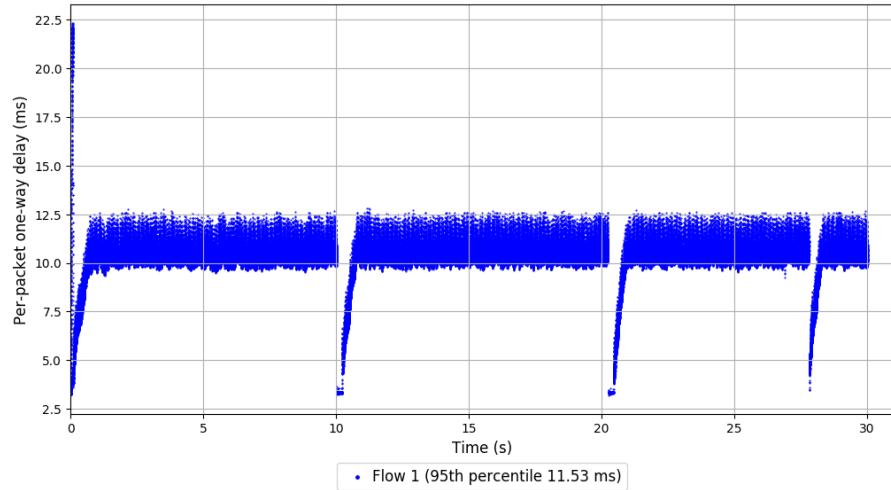
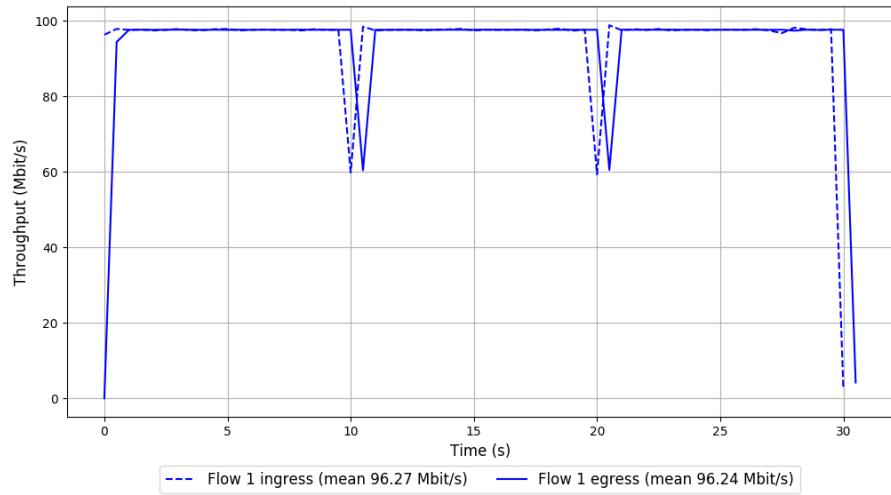


Run 4: Statistics of TCP BBR

```
Start at: 2019-06-27 20:32:51
End at: 2019-06-27 20:33:21
Local clock offset: -6.491 ms
Remote clock offset: 0.335 ms

# Below is generated by plot.py at 2019-06-27 21:10:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 11.525 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 11.525 ms
Loss rate: 0.00%
```

Run 4: Report of TCP BBR — Data Link

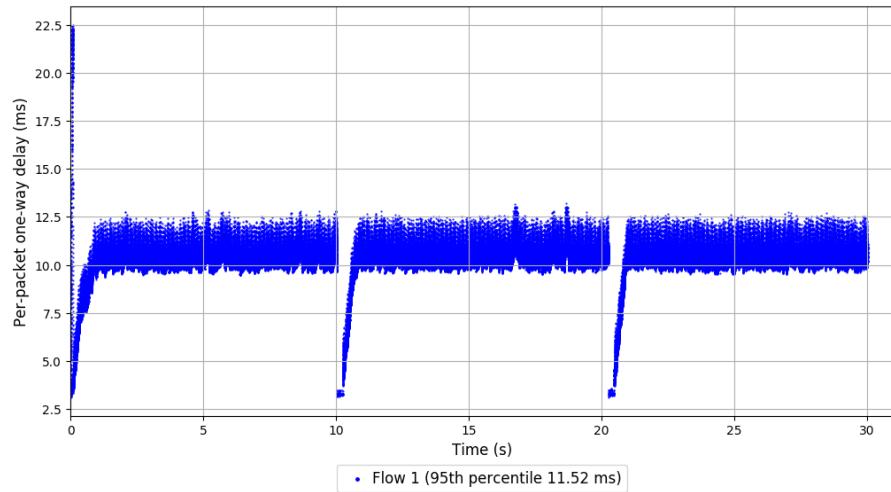
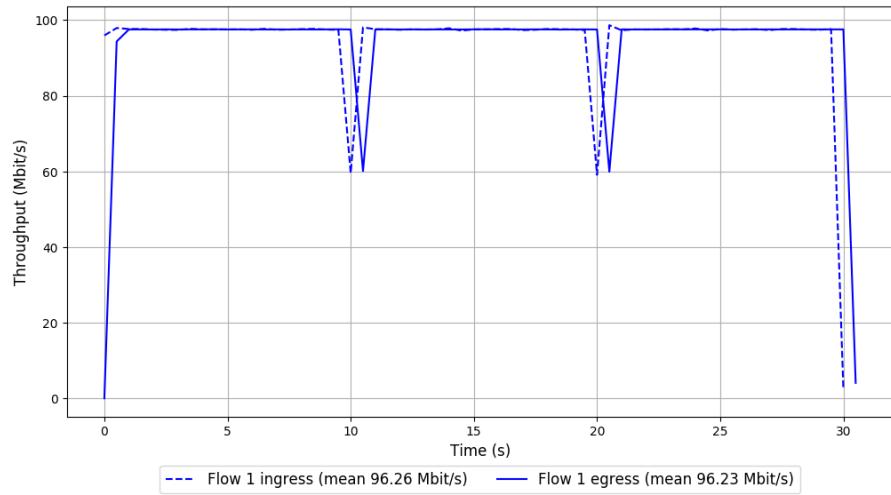


Run 5: Statistics of TCP BBR

```
Start at: 2019-06-27 20:57:24
End at: 2019-06-27 20:57:54
Local clock offset: -6.152 ms
Remote clock offset: 0.579 ms

# Below is generated by plot.py at 2019-06-27 21:10:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 11.515 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 11.515 ms
Loss rate: 0.01%
```

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

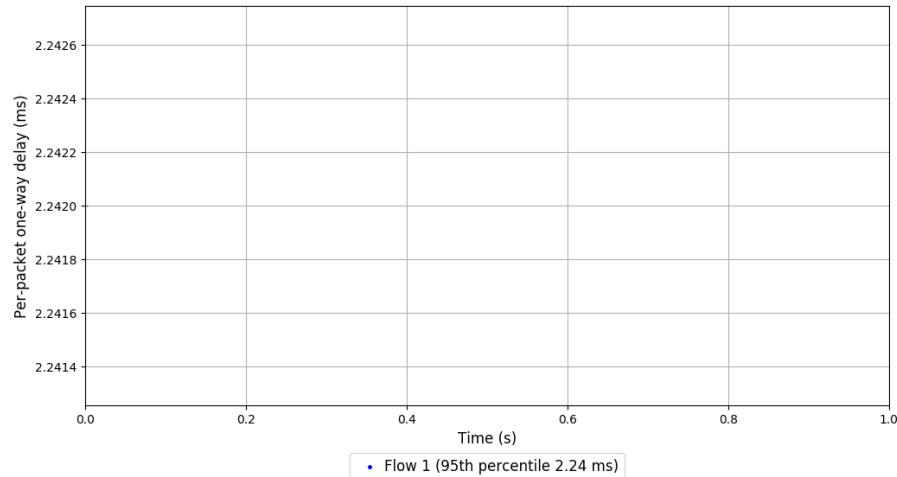
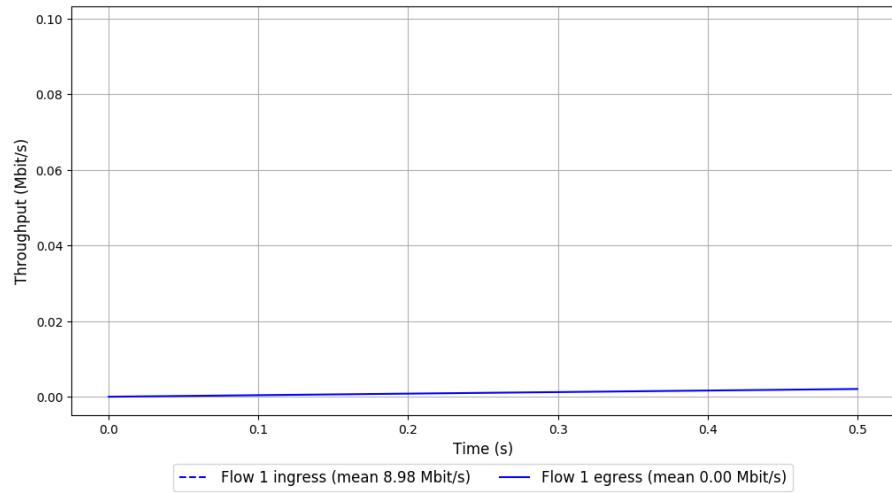
Start at: 2019-06-27 19:08:05

End at: 2019-06-27 19:08:35

Local clock offset: -5.589 ms

Remote clock offset: -0.764 ms

Run 1: Report of Copa — Data Link

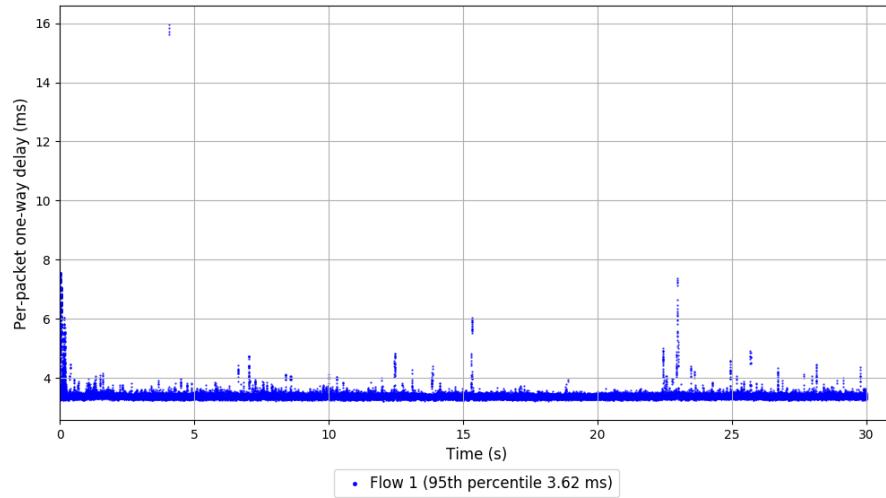
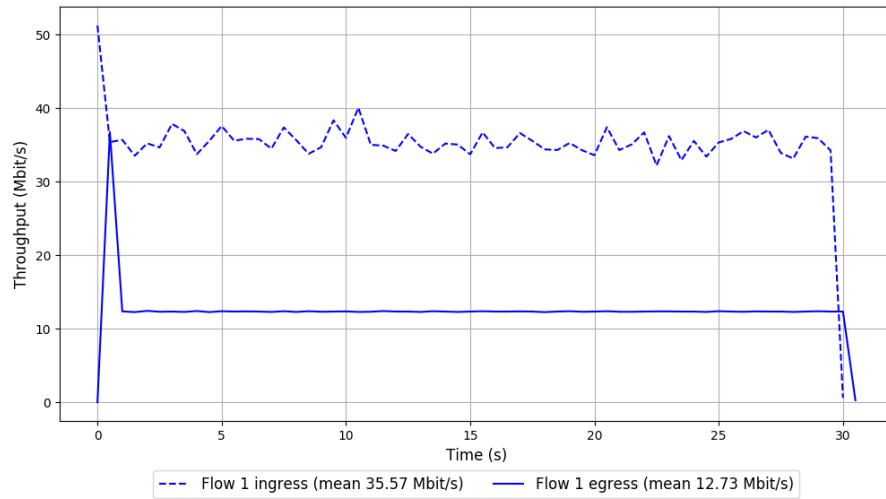


Run 2: Statistics of Copa

```
Start at: 2019-06-27 19:32:38
End at: 2019-06-27 19:33:08
Local clock offset: -6.0 ms
Remote clock offset: -0.27 ms

# Below is generated by plot.py at 2019-06-27 21:10:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 3.623 ms
Loss rate: 64.21%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 3.623 ms
Loss rate: 64.21%
```

Run 2: Report of Copa — Data Link

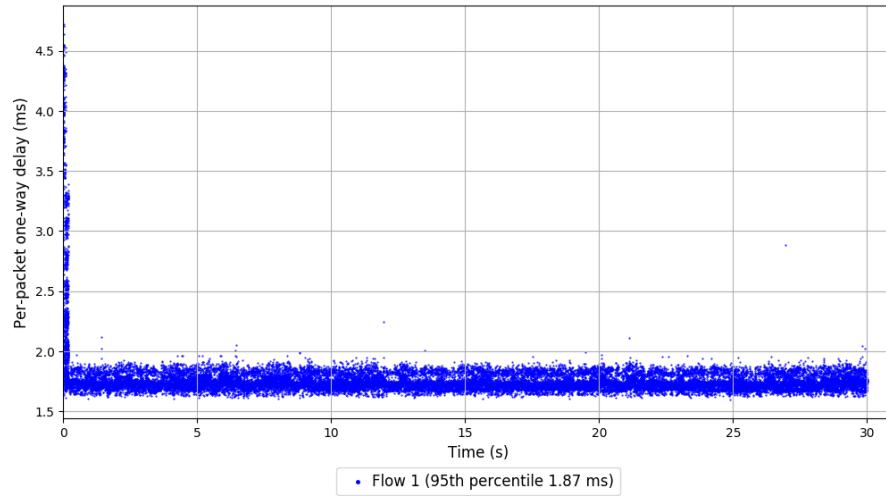
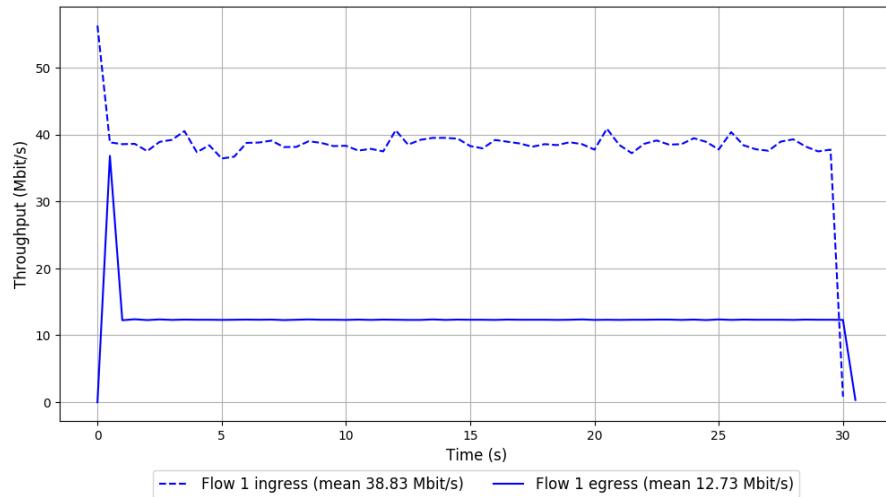


Run 3: Statistics of Copa

```
Start at: 2019-06-27 19:57:08
End at: 2019-06-27 19:57:38
Local clock offset: -5.666 ms
Remote clock offset: 0.184 ms

# Below is generated by plot.py at 2019-06-27 21:10:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 1.873 ms
Loss rate: 67.22%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 1.873 ms
Loss rate: 67.22%
```

Run 3: Report of Copa — Data Link

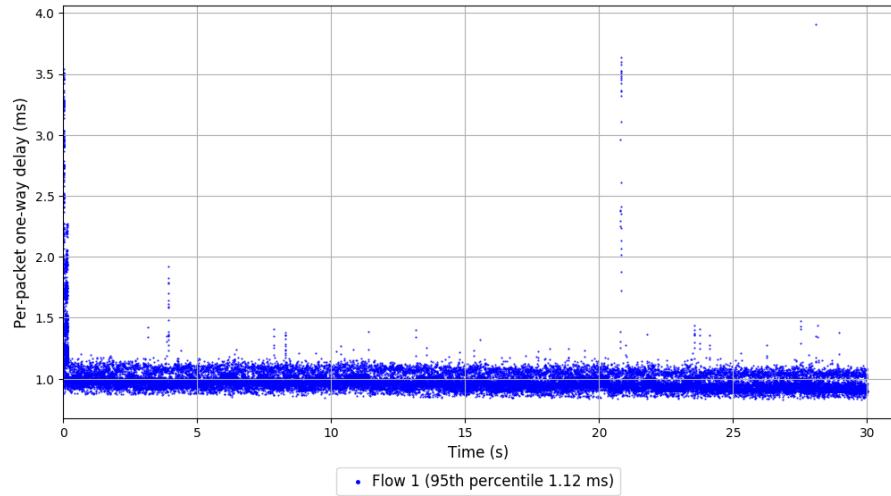
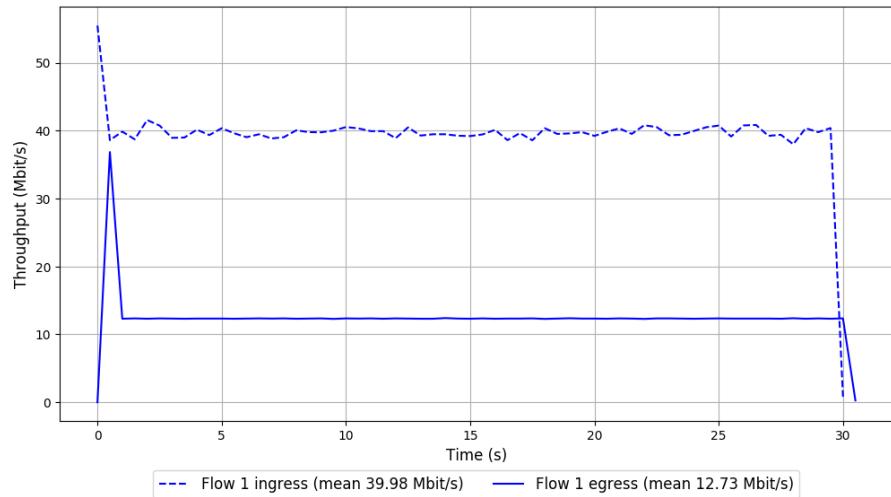


Run 4: Statistics of Copa

```
Start at: 2019-06-27 20:21:40
End at: 2019-06-27 20:22:10
Local clock offset: -5.207 ms
Remote clock offset: 0.376 ms

# Below is generated by plot.py at 2019-06-27 21:10:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 68.15%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 68.15%
```

Run 4: Report of Copa — Data Link

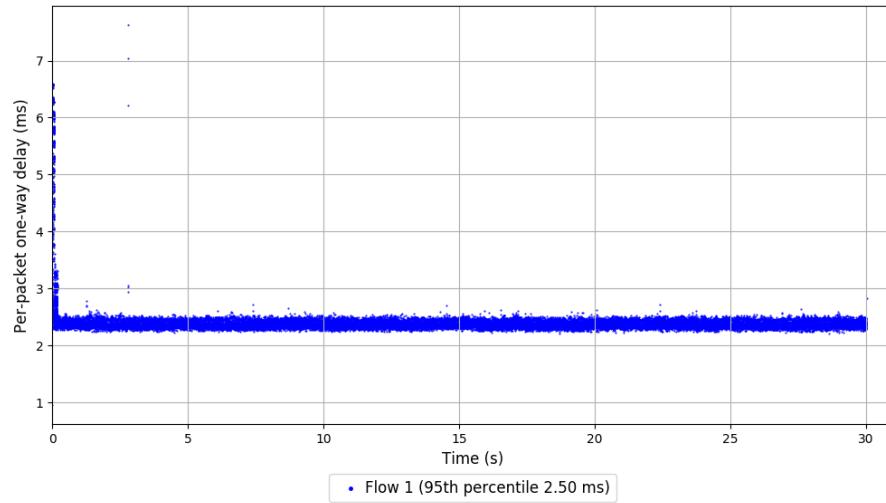
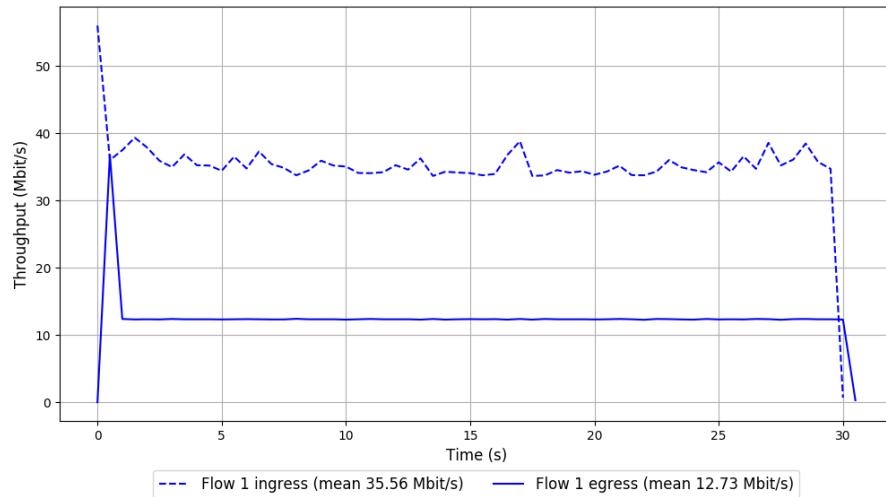


Run 5: Statistics of Copa

```
Start at: 2019-06-27 20:46:13
End at: 2019-06-27 20:46:43
Local clock offset: -5.662 ms
Remote clock offset: 0.488 ms

# Below is generated by plot.py at 2019-06-27 21:10:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 2.498 ms
Loss rate: 64.20%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 2.498 ms
Loss rate: 64.20%
```

Run 5: Report of Copa — Data Link

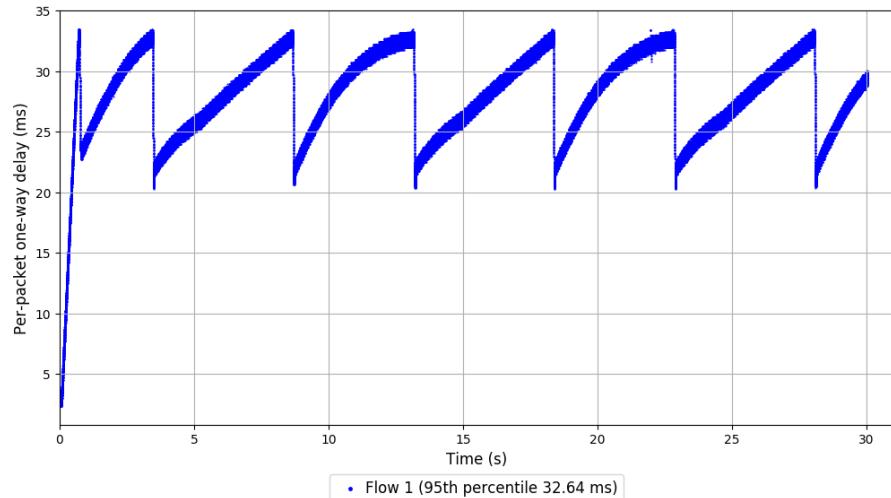
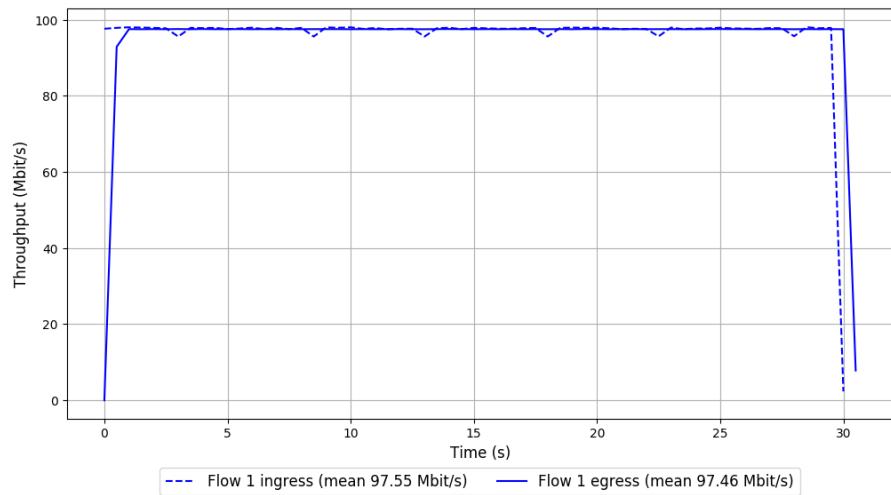


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-06-27 19:09:09
End at: 2019-06-27 19:09:39
Local clock offset: -5.497 ms
Remote clock offset: -0.63 ms

# Below is generated by plot.py at 2019-06-27 21:10:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 32.638 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 32.638 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Cubic — Data Link

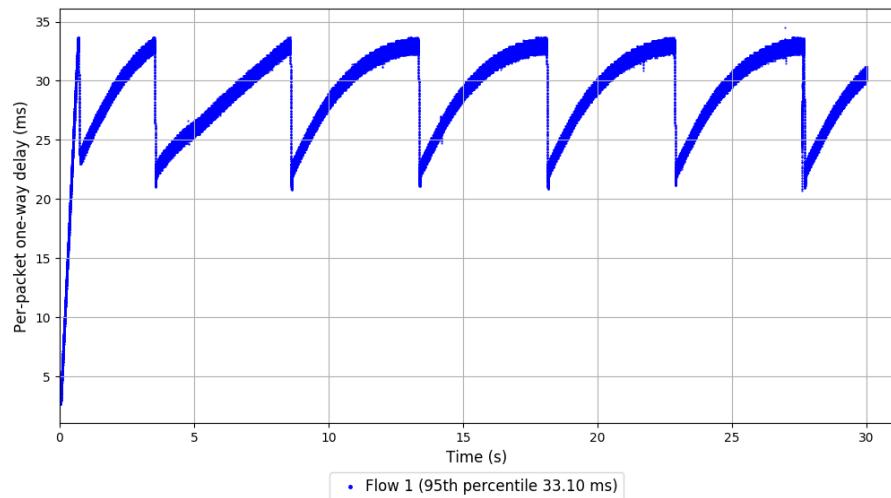
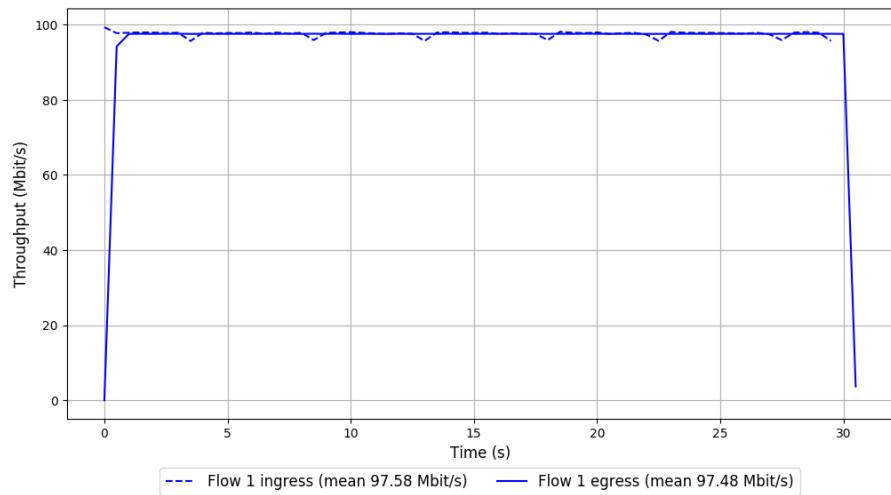


Run 2: Statistics of TCP Cubic

```
Start at: 2019-06-27 19:33:43
End at: 2019-06-27 19:34:13
Local clock offset: -5.192 ms
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2019-06-27 21:10:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 33.104 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 33.104 ms
Loss rate: 0.01%
```

Run 2: Report of TCP Cubic — Data Link

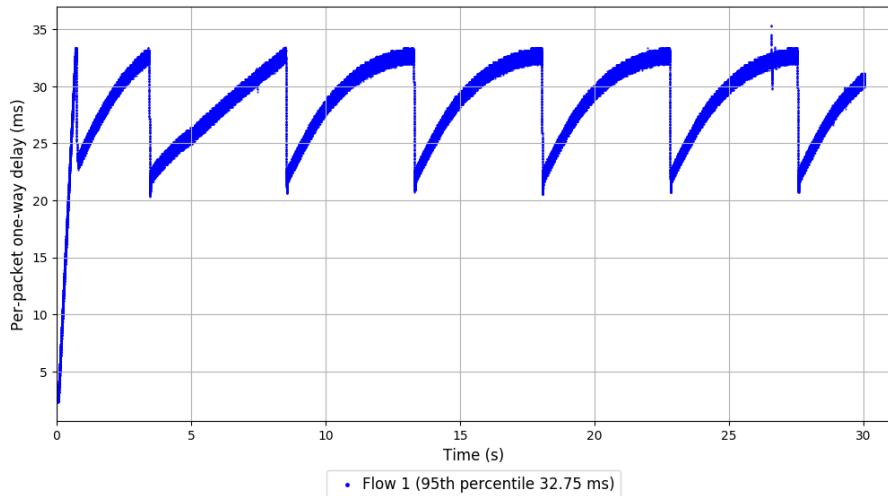
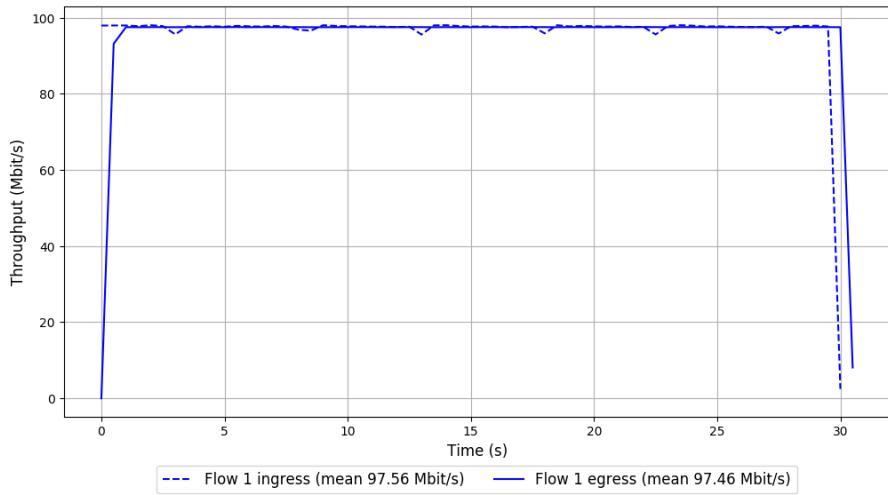


Run 3: Statistics of TCP Cubic

```
Start at: 2019-06-27 19:58:13
End at: 2019-06-27 19:58:43
Local clock offset: -4.801 ms
Remote clock offset: 0.143 ms

# Below is generated by plot.py at 2019-06-27 21:11:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 32.754 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 32.754 ms
Loss rate: 0.01%
```

Run 3: Report of TCP Cubic — Data Link

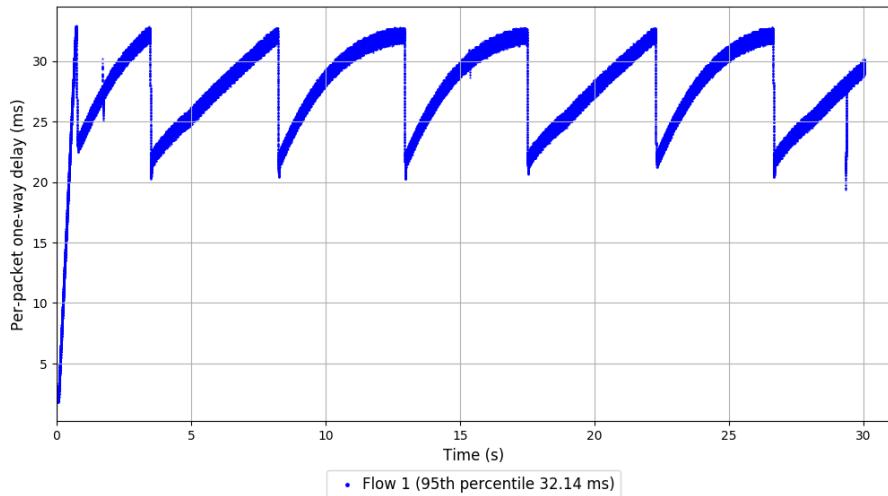
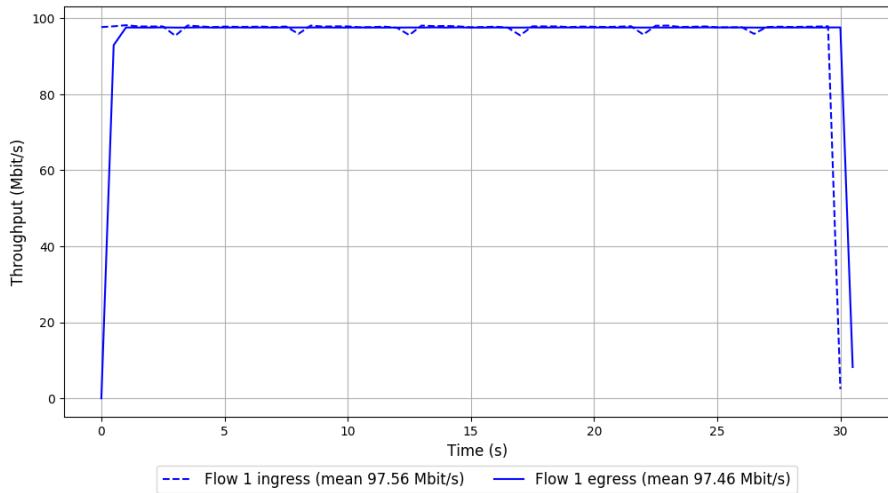


Run 4: Statistics of TCP Cubic

```
Start at: 2019-06-27 20:22:45
End at: 2019-06-27 20:23:15
Local clock offset: -6.072 ms
Remote clock offset: 0.47 ms

# Below is generated by plot.py at 2019-06-27 21:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 32.144 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 32.144 ms
Loss rate: 0.01%
```

Run 4: Report of TCP Cubic — Data Link

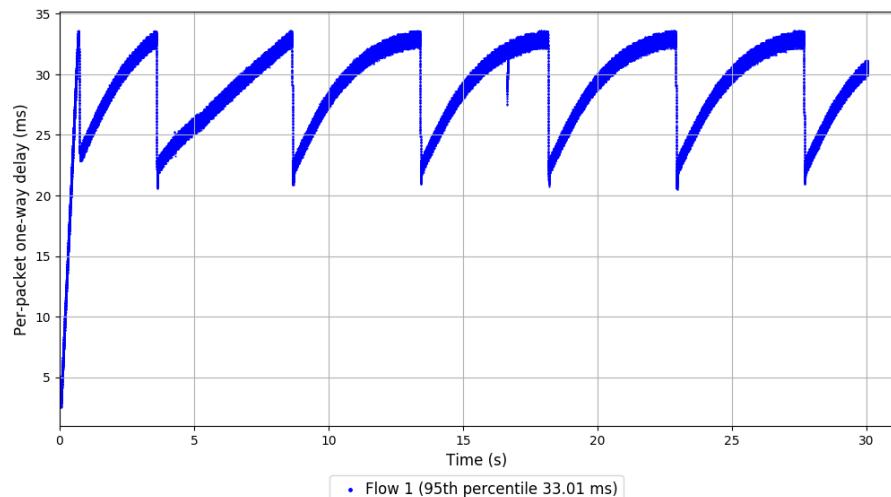
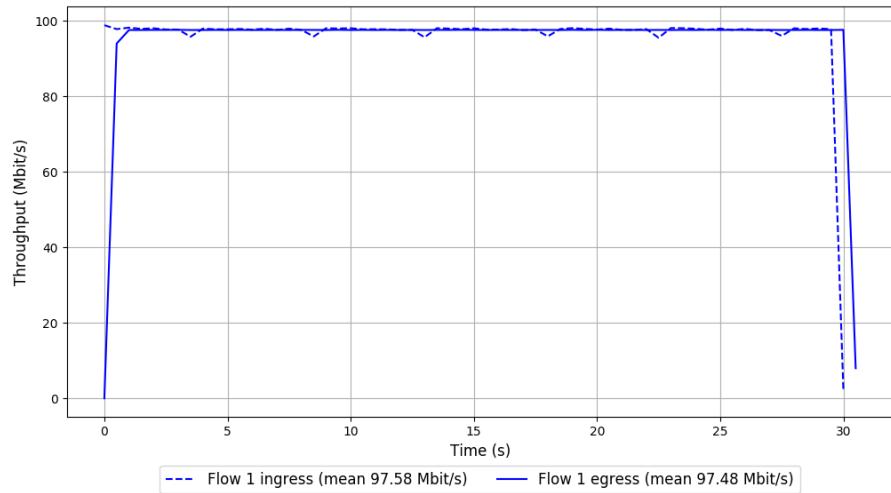


Run 5: Statistics of TCP Cubic

```
Start at: 2019-06-27 20:47:18
End at: 2019-06-27 20:47:48
Local clock offset: -5.97 ms
Remote clock offset: 0.45 ms

# Below is generated by plot.py at 2019-06-27 21:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 33.008 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 33.008 ms
Loss rate: 0.01%
```

Run 5: Report of TCP Cubic — Data Link

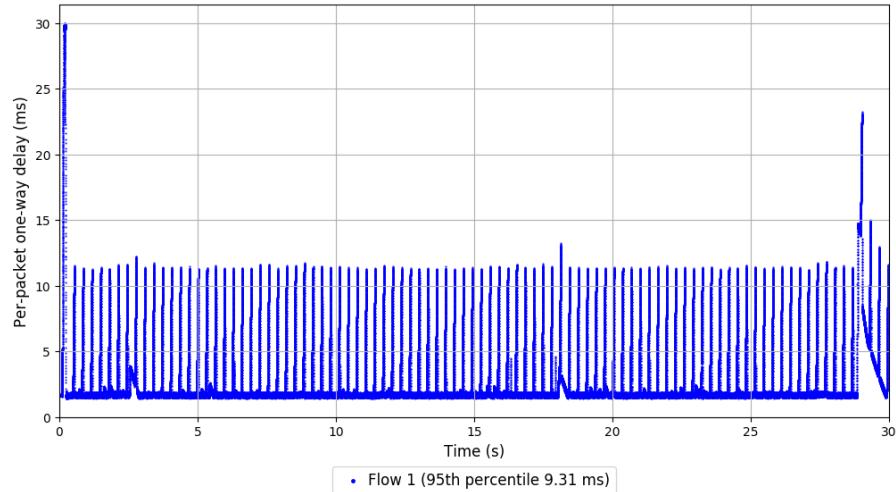
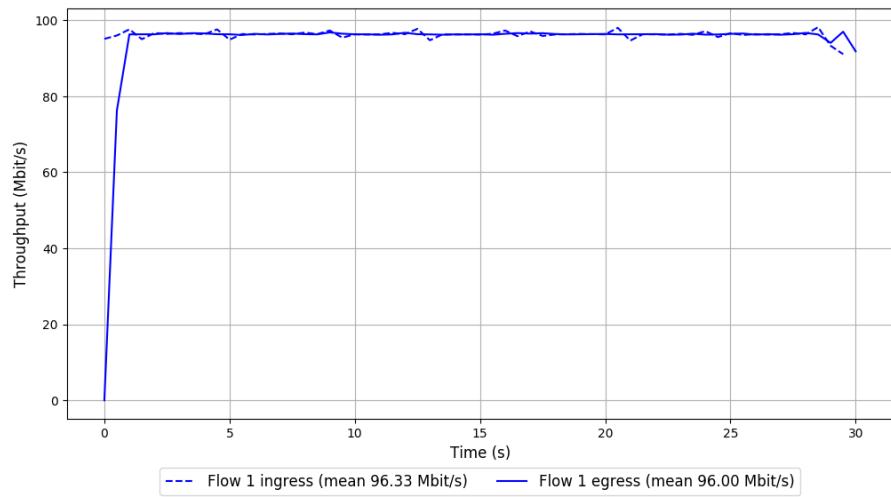


Run 1: Statistics of FillP

```
Start at: 2019-06-27 19:21:29
End at: 2019-06-27 19:21:59
Local clock offset: -6.059 ms
Remote clock offset: -0.365 ms

# Below is generated by plot.py at 2019-06-27 21:12:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 9.310 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 9.310 ms
Loss rate: 0.32%
```

Run 1: Report of FillP — Data Link

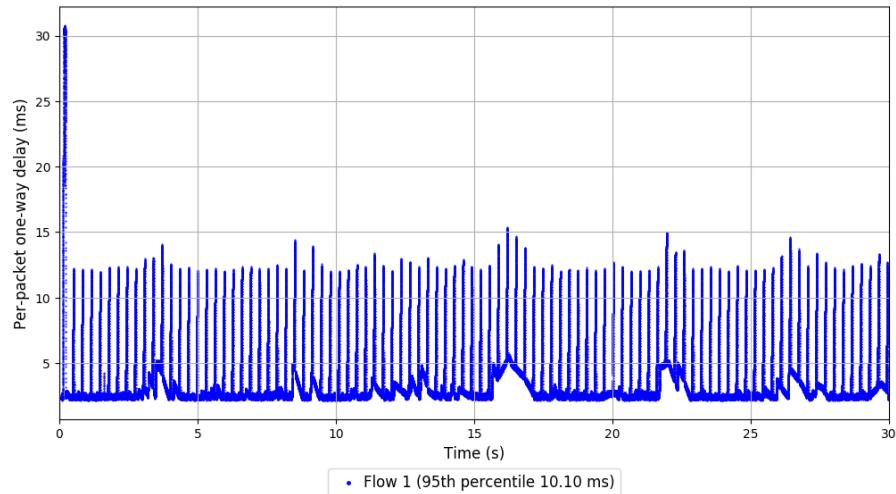
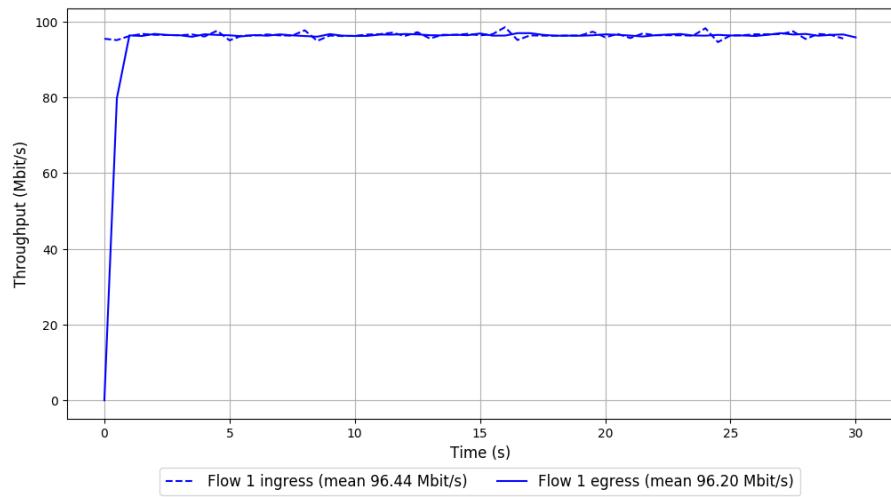


Run 2: Statistics of FillP

```
Start at: 2019-06-27 19:46:03
End at: 2019-06-27 19:46:33
Local clock offset: -4.766 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-06-27 21:12:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 10.104 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 10.104 ms
Loss rate: 0.25%
```

Run 2: Report of FillP — Data Link

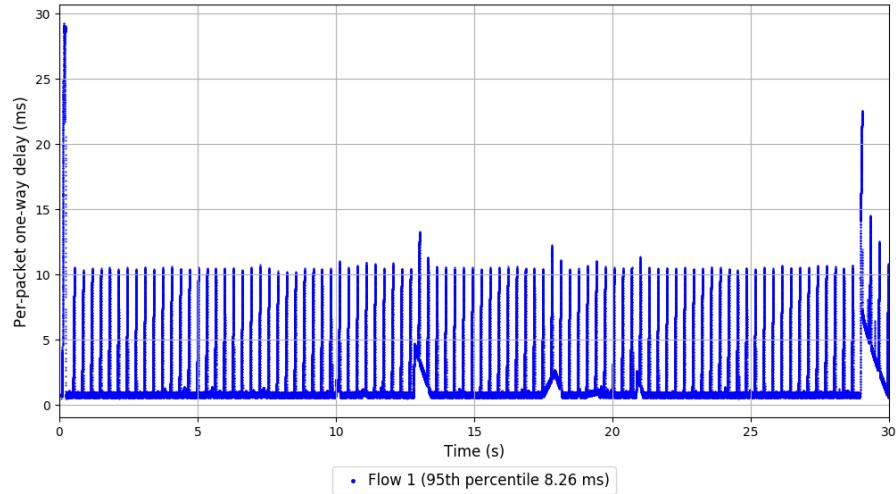
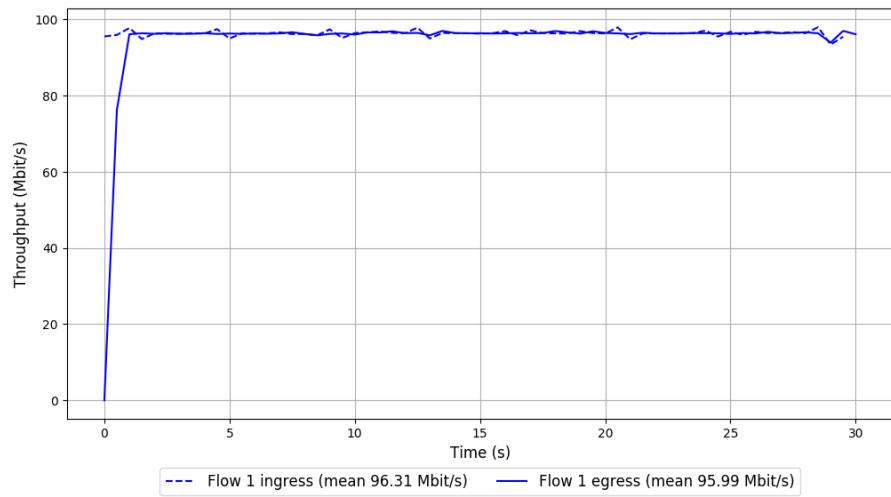


```
Run 3: Statistics of FillP
```

```
Start at: 2019-06-27 20:10:34
End at: 2019-06-27 20:11:04
Local clock offset: -4.758 ms
Remote clock offset: 0.183 ms

# Below is generated by plot.py at 2019-06-27 21:12:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 8.259 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 8.259 ms
Loss rate: 0.33%
```

Run 3: Report of FillP — Data Link

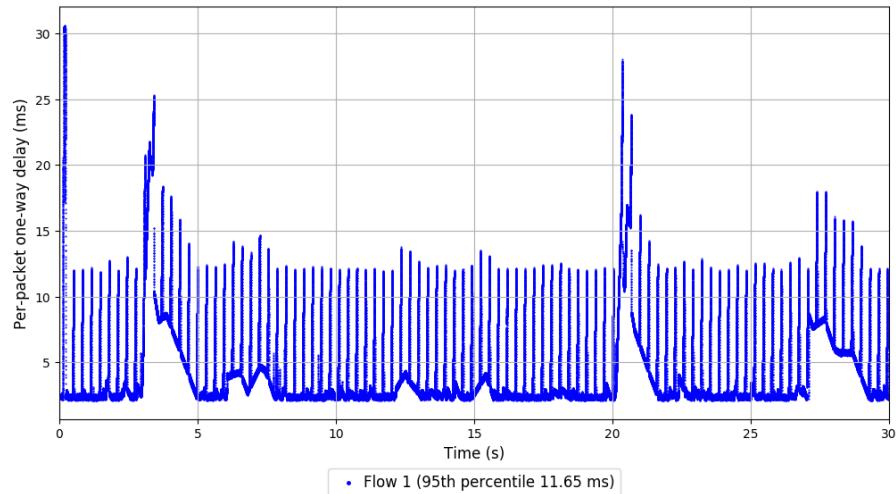
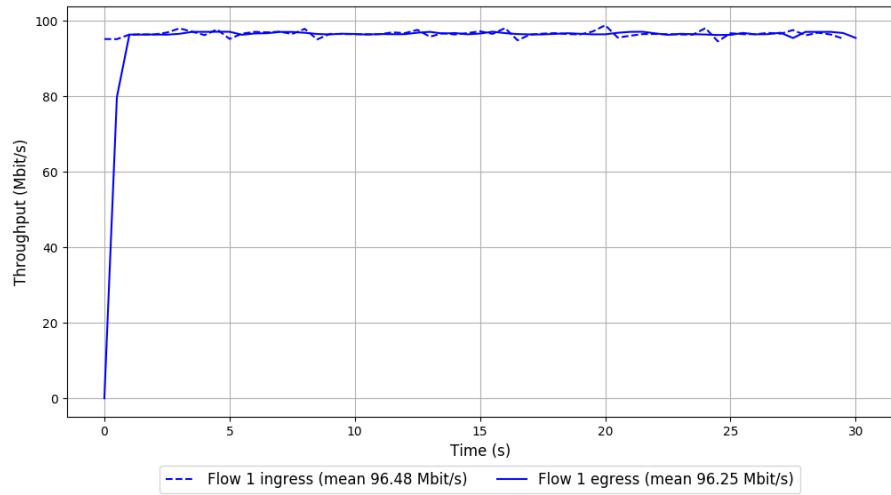


Run 4: Statistics of FillP

```
Start at: 2019-06-27 20:35:05
End at: 2019-06-27 20:35:35
Local clock offset: -5.54 ms
Remote clock offset: 0.385 ms

# Below is generated by plot.py at 2019-06-27 21:12:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 11.654 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 11.654 ms
Loss rate: 0.24%
```

Run 4: Report of FillP — Data Link

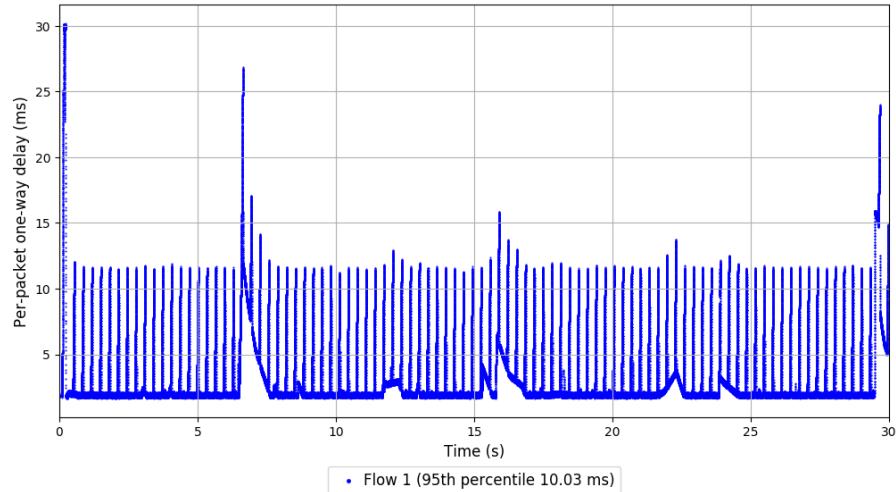
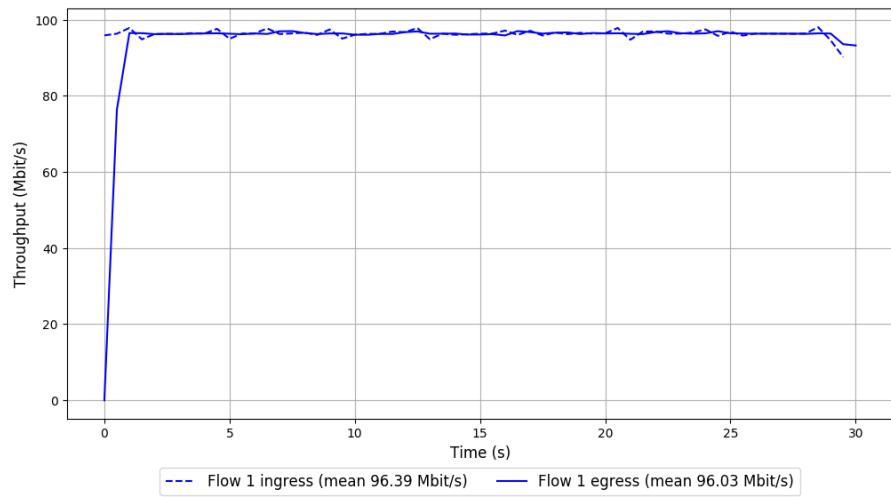


Run 5: Statistics of FillP

```
Start at: 2019-06-27 20:59:38
End at: 2019-06-27 21:00:08
Local clock offset: -6.425 ms
Remote clock offset: 0.502 ms

# Below is generated by plot.py at 2019-06-27 21:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 10.025 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 10.025 ms
Loss rate: 0.33%
```

Run 5: Report of FillP — Data Link

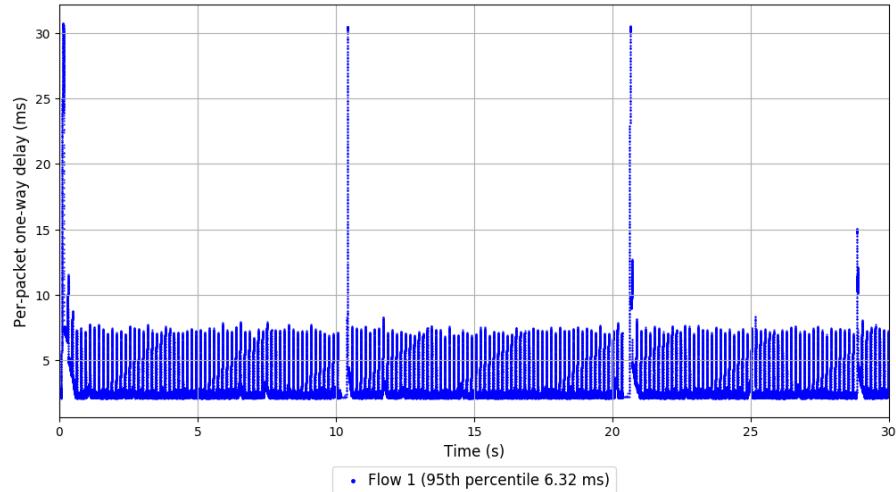
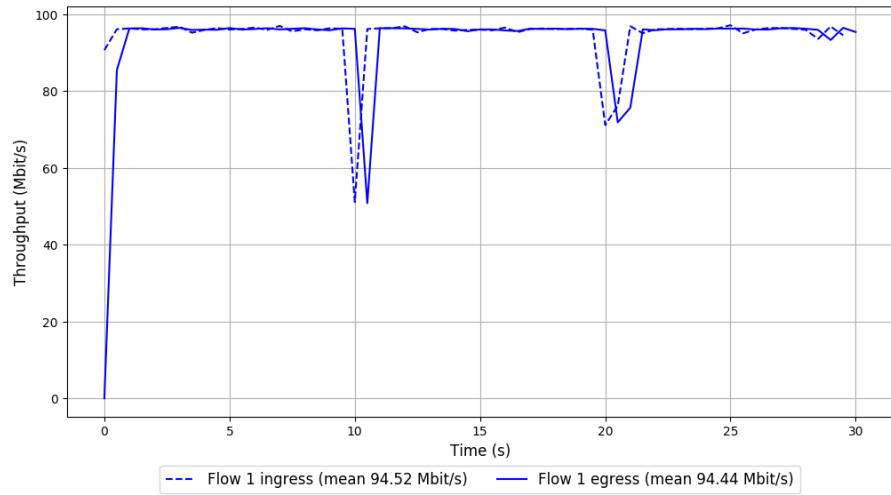


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-06-27 19:12:32
End at: 2019-06-27 19:13:02
Local clock offset: -5.435 ms
Remote clock offset: -0.634 ms

# Below is generated by plot.py at 2019-06-27 21:12:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 6.316 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 6.316 ms
Loss rate: 0.09%
```

Run 1: Report of FillP-Sheep — Data Link

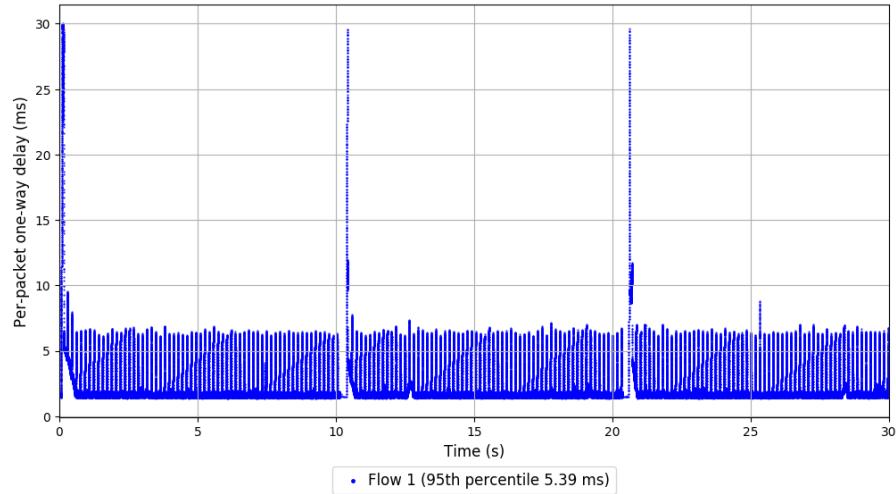
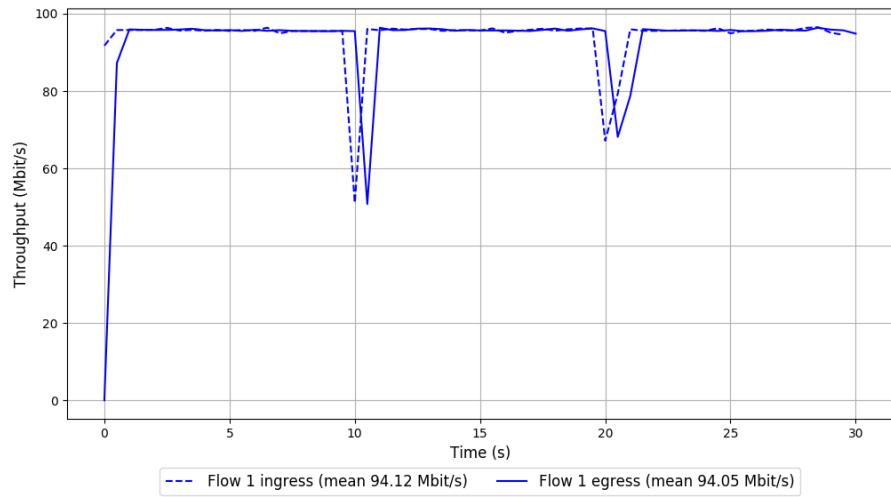


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-06-27 19:37:05
End at: 2019-06-27 19:37:35
Local clock offset: -5.686 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2019-06-27 21:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.05 Mbit/s
95th percentile per-packet one-way delay: 5.390 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 94.05 Mbit/s
95th percentile per-packet one-way delay: 5.390 ms
Loss rate: 0.07%
```

Run 2: Report of FillP-Sheep — Data Link

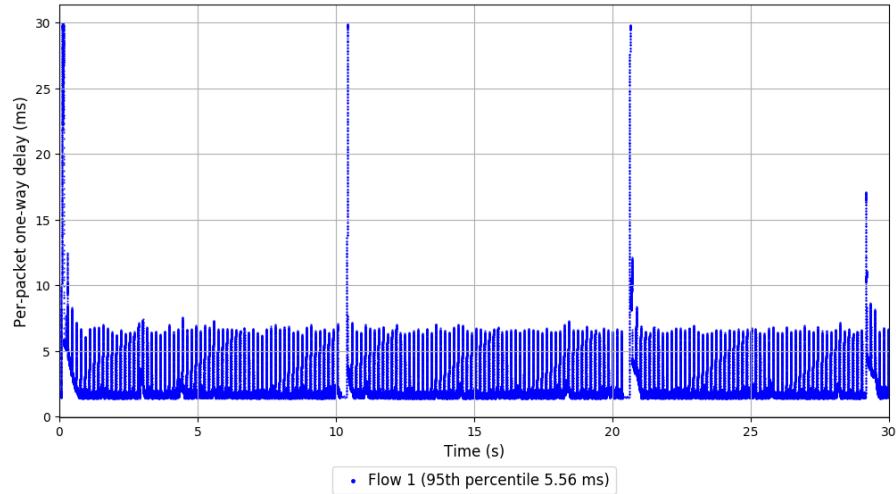
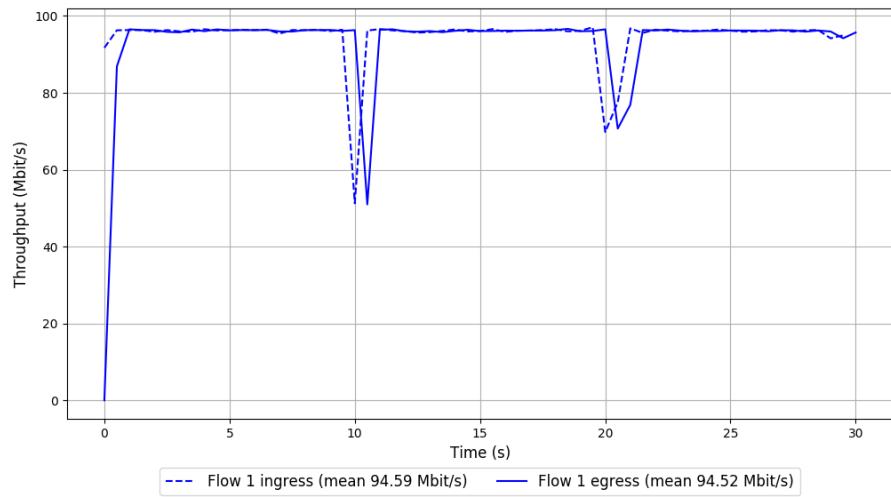


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-06-27 20:01:36
End at: 2019-06-27 20:02:06
Local clock offset: -5.588 ms
Remote clock offset: 0.164 ms

# Below is generated by plot.py at 2019-06-27 21:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.52 Mbit/s
95th percentile per-packet one-way delay: 5.561 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 94.52 Mbit/s
95th percentile per-packet one-way delay: 5.561 ms
Loss rate: 0.08%
```

Run 3: Report of FillP-Sheep — Data Link

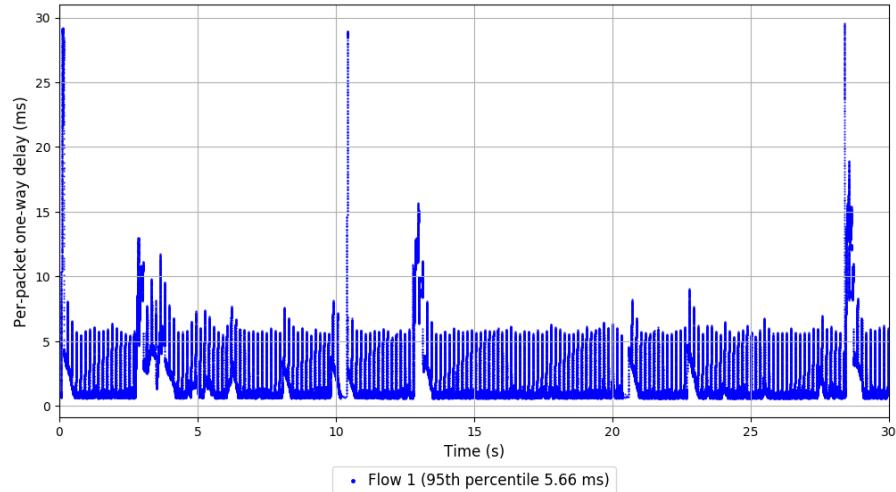
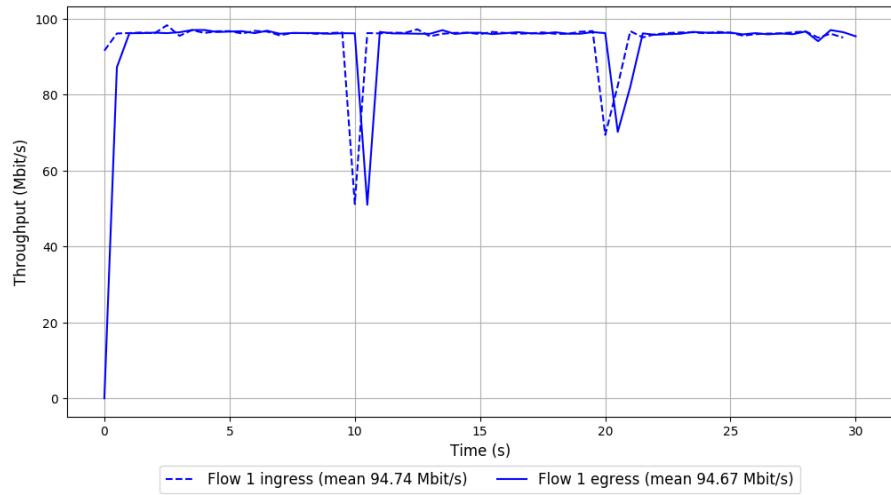


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-06-27 20:26:07
End at: 2019-06-27 20:26:37
Local clock offset: -5.321 ms
Remote clock offset: 0.348 ms

# Below is generated by plot.py at 2019-06-27 21:13:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.67 Mbit/s
95th percentile per-packet one-way delay: 5.664 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 94.67 Mbit/s
95th percentile per-packet one-way delay: 5.664 ms
Loss rate: 0.08%
```

Run 4: Report of FillP-Sheep — Data Link

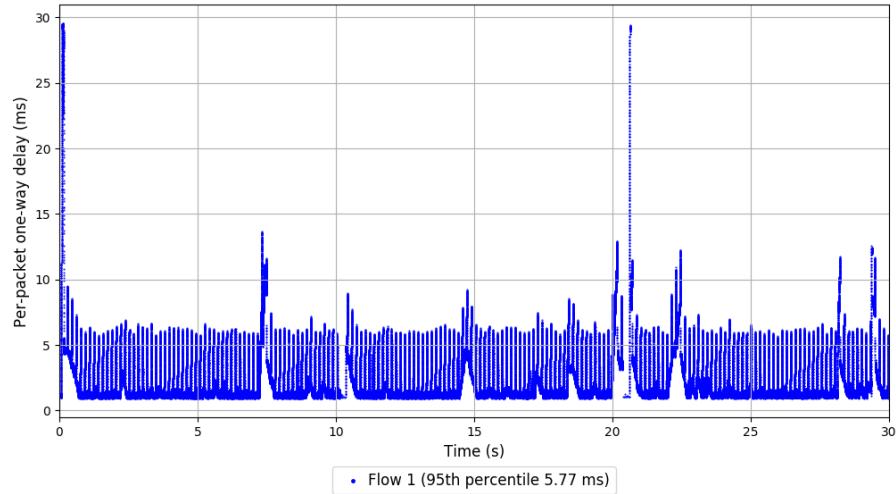
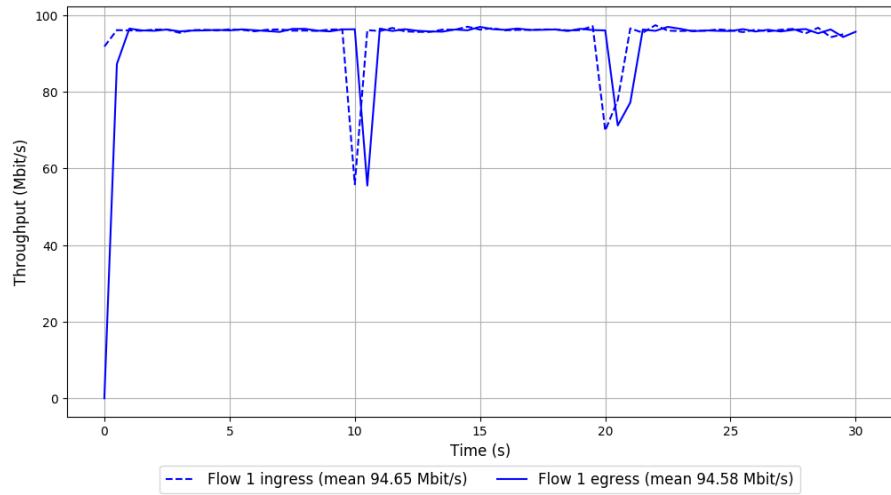


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-06-27 20:50:40
End at: 2019-06-27 20:51:10
Local clock offset: -5.783 ms
Remote clock offset: 0.576 ms

# Below is generated by plot.py at 2019-06-27 21:13:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.58 Mbit/s
95th percentile per-packet one-way delay: 5.771 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 94.58 Mbit/s
95th percentile per-packet one-way delay: 5.771 ms
Loss rate: 0.07%
```

Run 5: Report of FillP-Sheep — Data Link

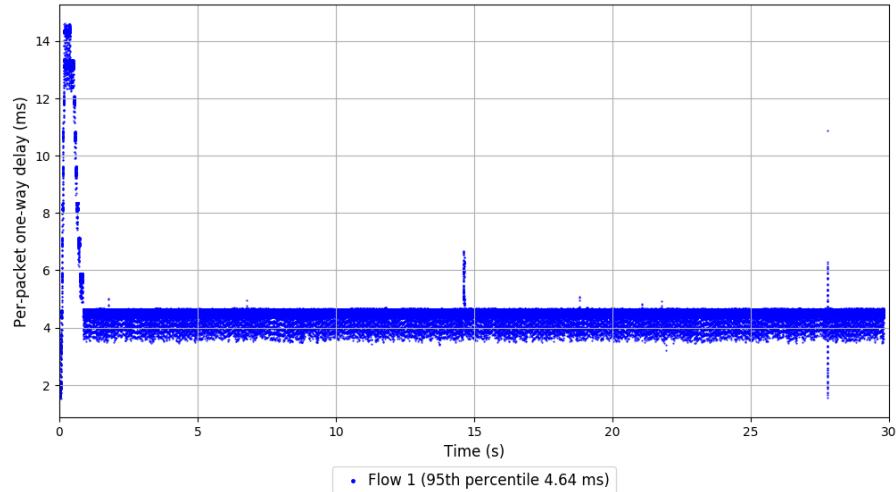
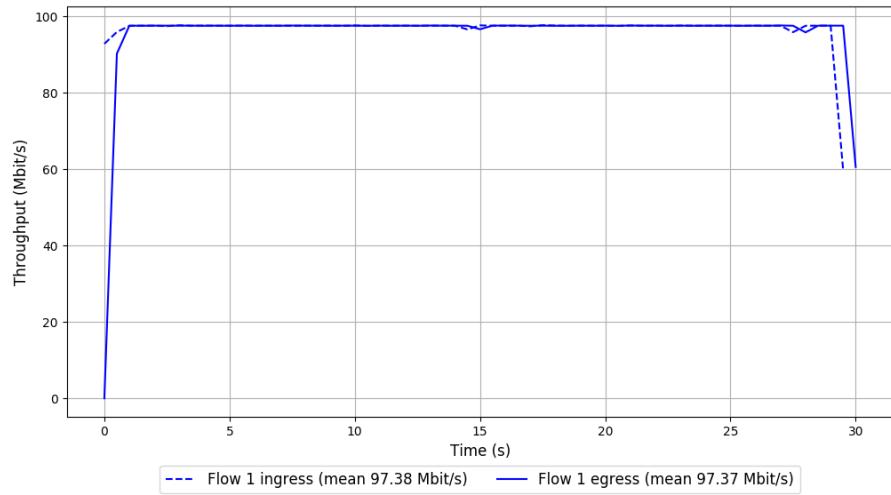


Run 1: Statistics of Indigo

```
Start at: 2019-06-27 19:13:39
End at: 2019-06-27 19:14:09
Local clock offset: -6.224 ms
Remote clock offset: -0.568 ms

# Below is generated by plot.py at 2019-06-27 21:13:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 4.645 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 4.645 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

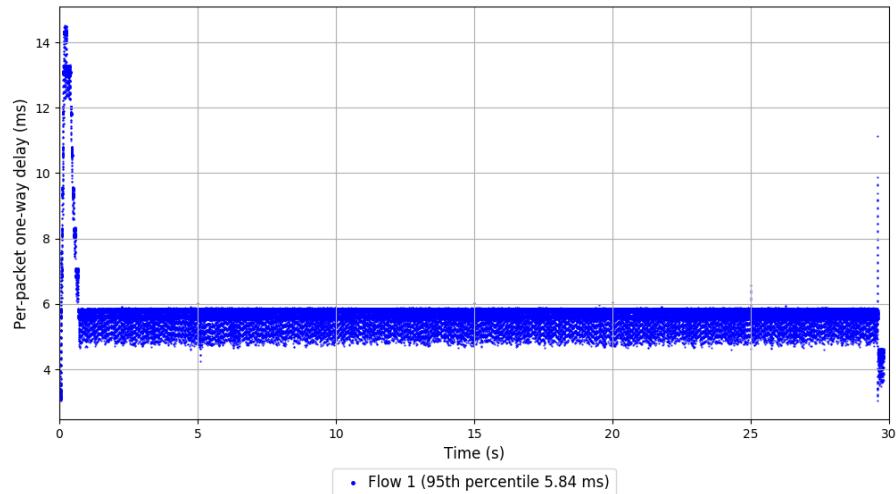
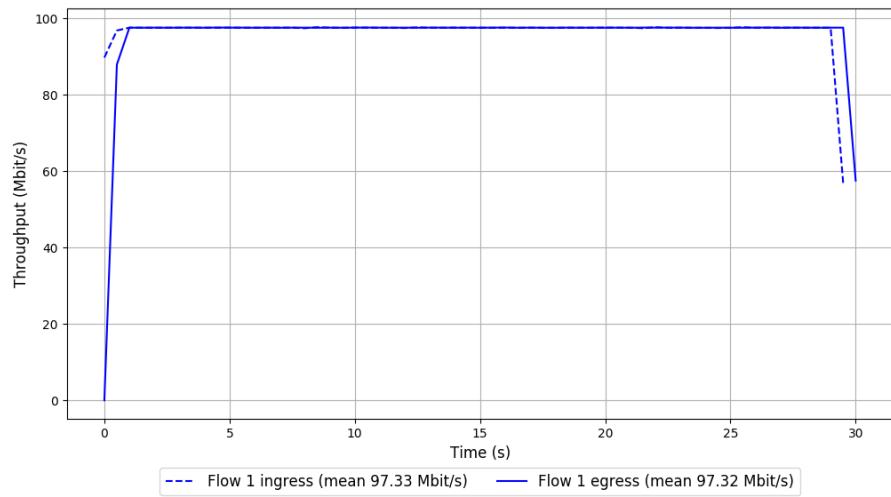


Run 2: Statistics of Indigo

```
Start at: 2019-06-27 19:38:12
End at: 2019-06-27 19:38:42
Local clock offset: -5.647 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-06-27 21:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 5.836 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 5.836 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo — Data Link

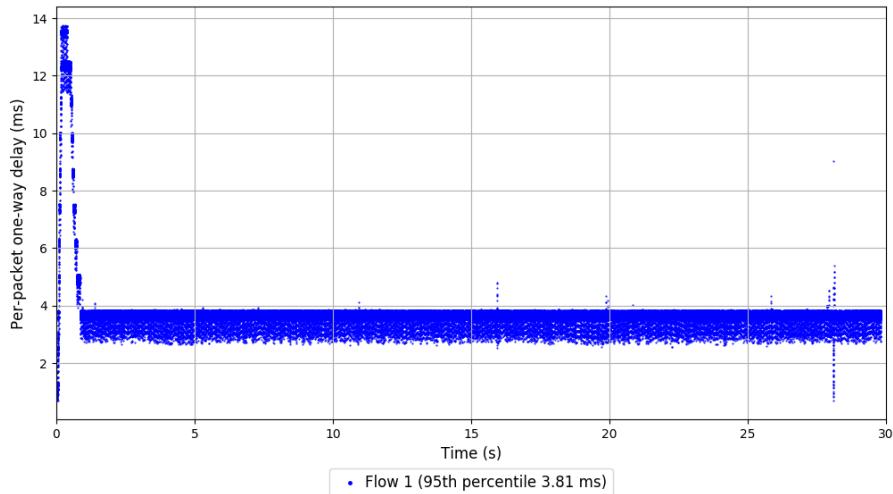
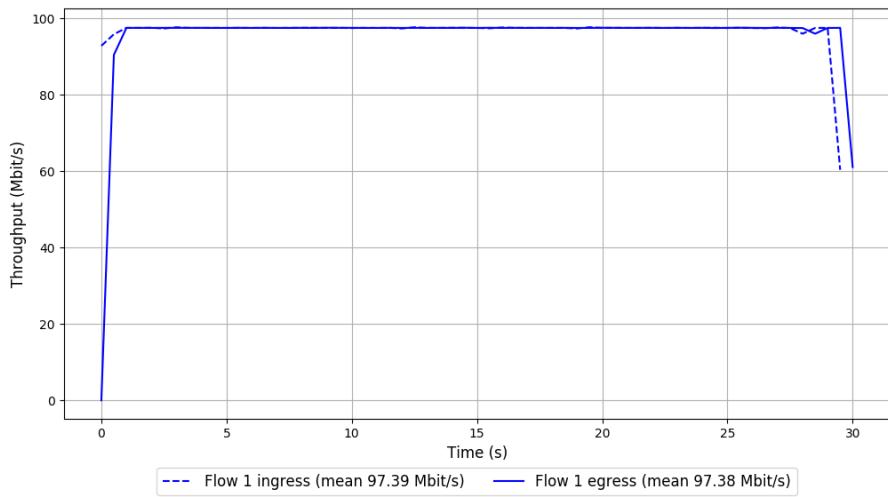


Run 3: Statistics of Indigo

```
Start at: 2019-06-27 20:02:43
End at: 2019-06-27 20:03:13
Local clock offset: -4.793 ms
Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2019-06-27 21:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 3.814 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 3.814 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

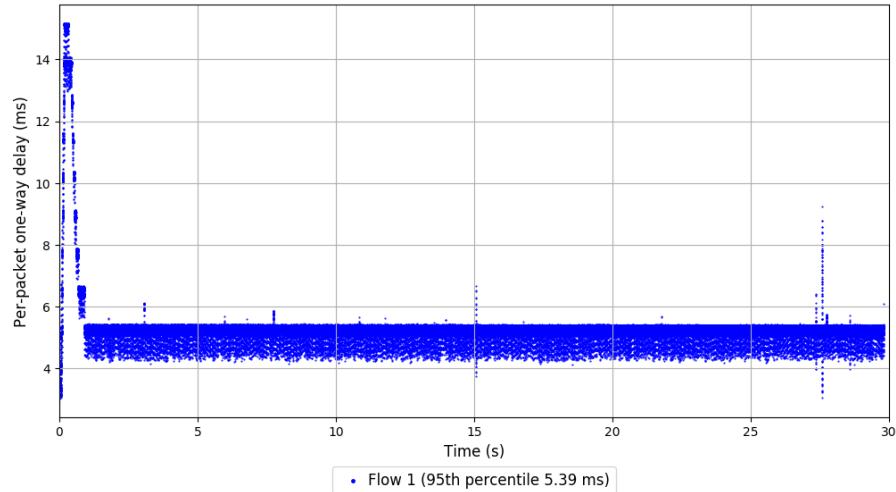
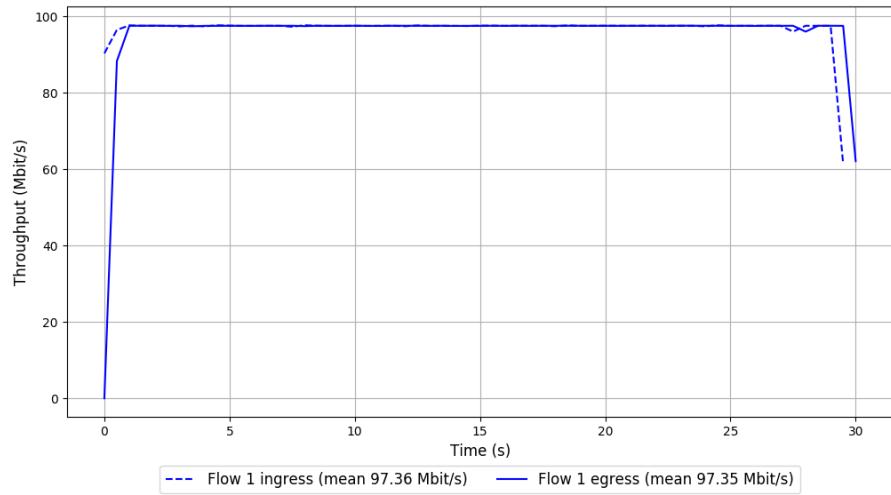


Run 4: Statistics of Indigo

```
Start at: 2019-06-27 20:27:14
End at: 2019-06-27 20:27:44
Local clock offset: -6.098 ms
Remote clock offset: 0.38 ms

# Below is generated by plot.py at 2019-06-27 21:13:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.35 Mbit/s
95th percentile per-packet one-way delay: 5.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.35 Mbit/s
95th percentile per-packet one-way delay: 5.387 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

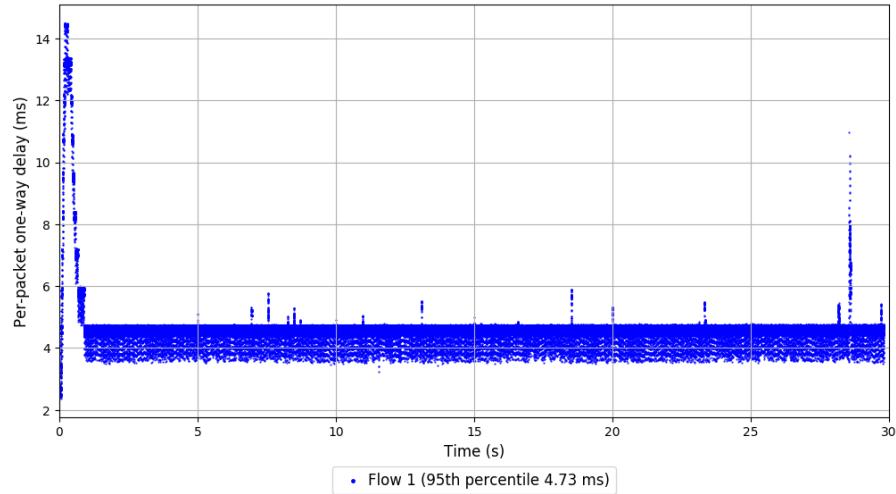
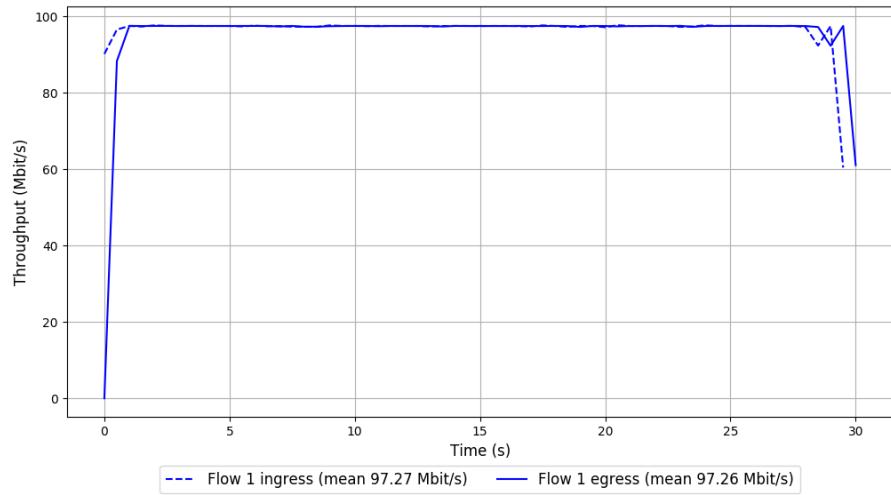


Run 5: Statistics of Indigo

```
Start at: 2019-06-27 20:51:48
End at: 2019-06-27 20:52:18
Local clock offset: -5.59 ms
Remote clock offset: 0.517 ms

# Below is generated by plot.py at 2019-06-27 21:14:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.26 Mbit/s
95th percentile per-packet one-way delay: 4.729 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.26 Mbit/s
95th percentile per-packet one-way delay: 4.729 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

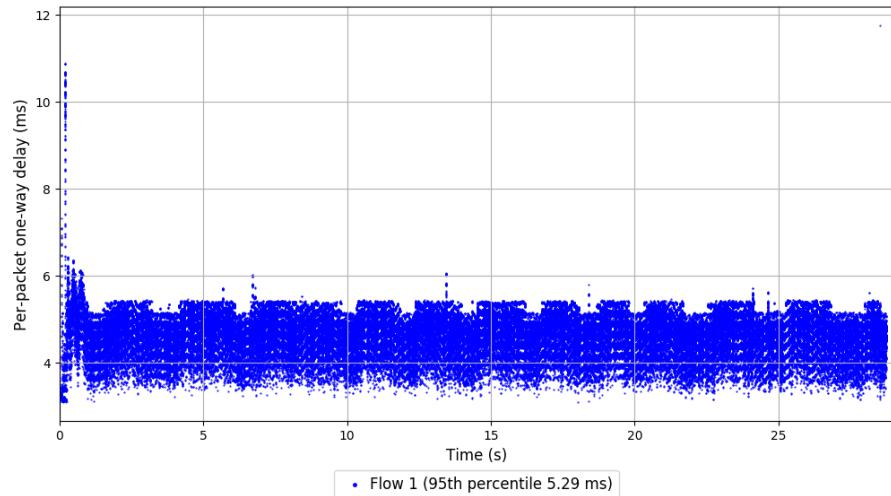
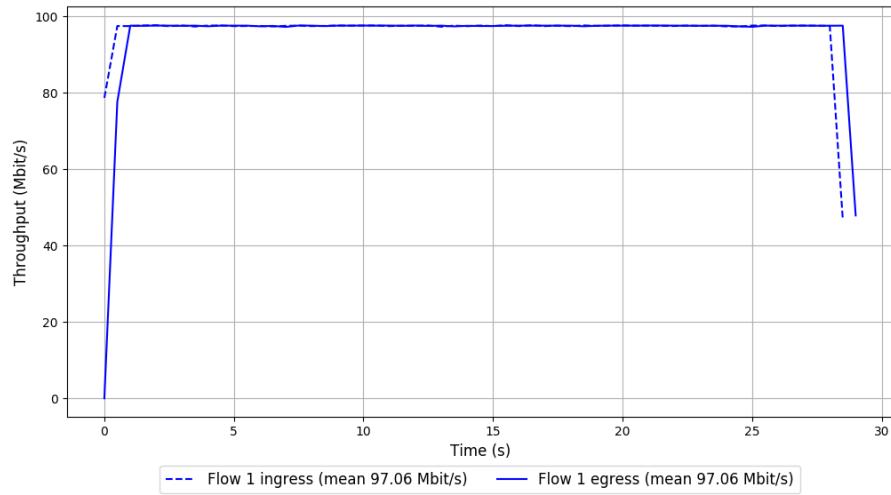


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 19:25:55
End at: 2019-06-27 19:26:25
Local clock offset: -5.946 ms
Remote clock offset: -0.338 ms

# Below is generated by plot.py at 2019-06-27 21:14:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.06 Mbit/s
95th percentile per-packet one-way delay: 5.294 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.06 Mbit/s
95th percentile per-packet one-way delay: 5.294 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link

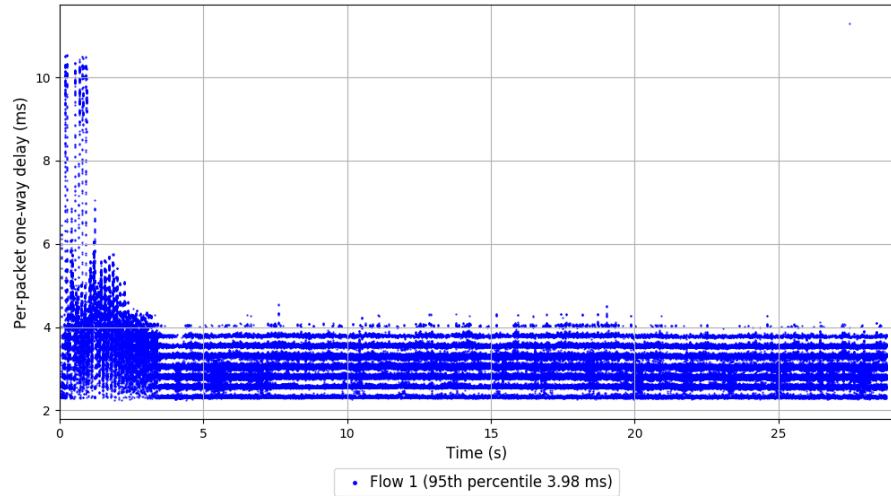
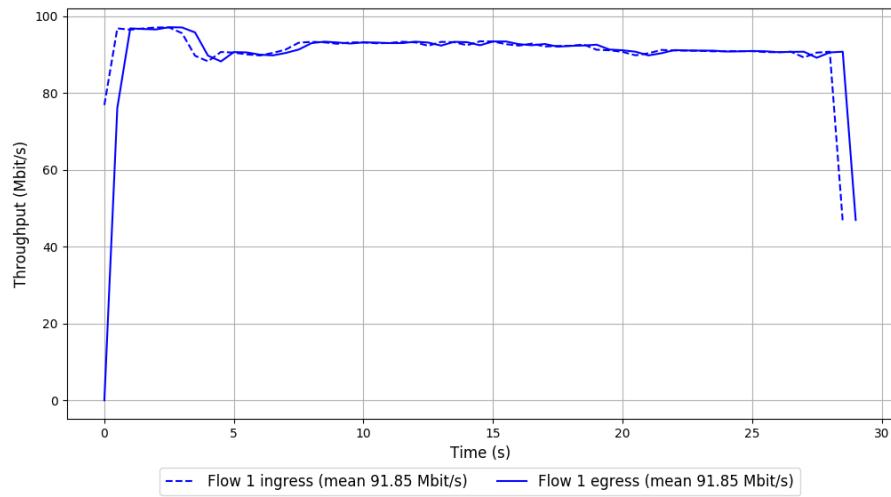


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 19:50:25
End at: 2019-06-27 19:50:56
Local clock offset: -4.775 ms
Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2019-06-27 21:14:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 3.983 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 3.983 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC3 — Data Link

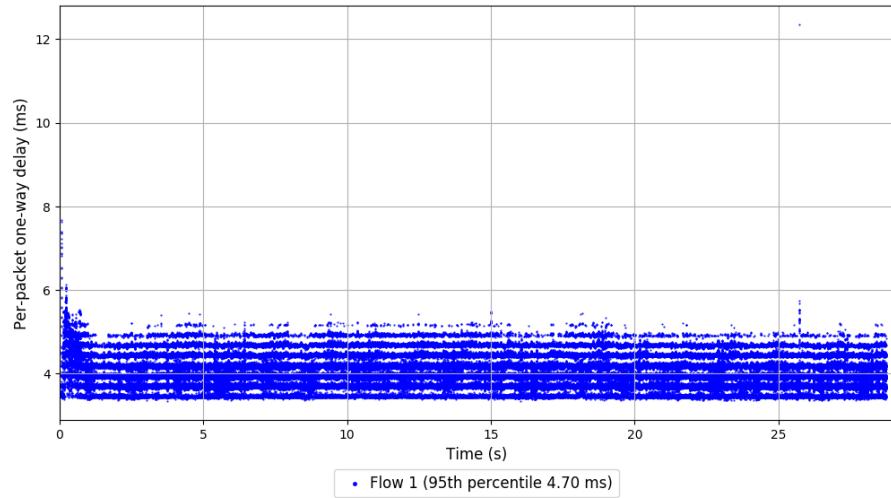
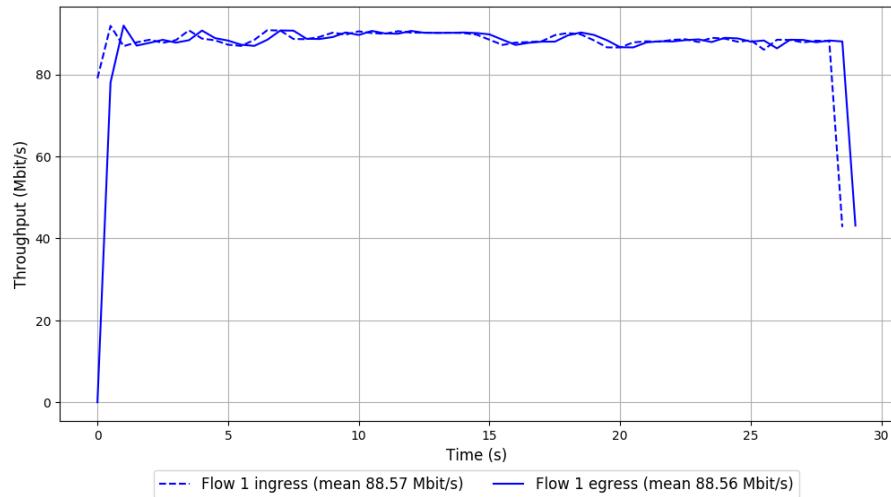


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 20:14:57
End at: 2019-06-27 20:15:27
Local clock offset: -5.815 ms
Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2019-06-27 21:14:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.56 Mbit/s
95th percentile per-packet one-way delay: 4.701 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.56 Mbit/s
95th percentile per-packet one-way delay: 4.701 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC3 — Data Link

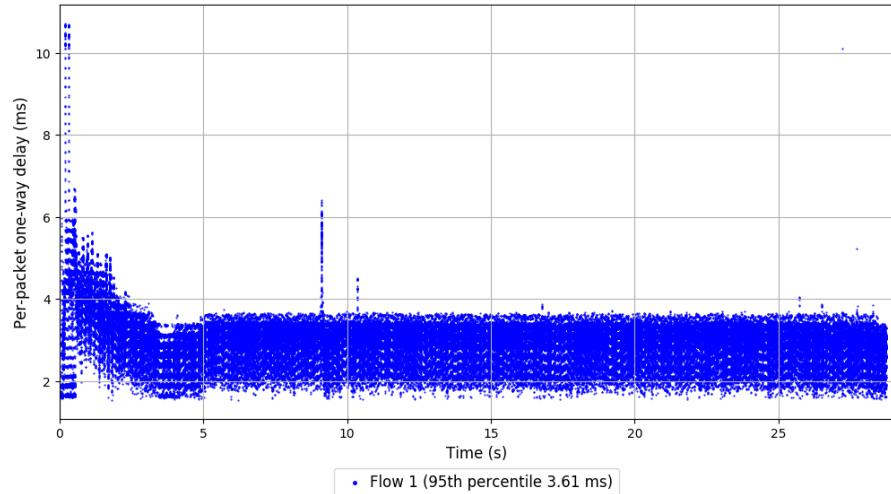
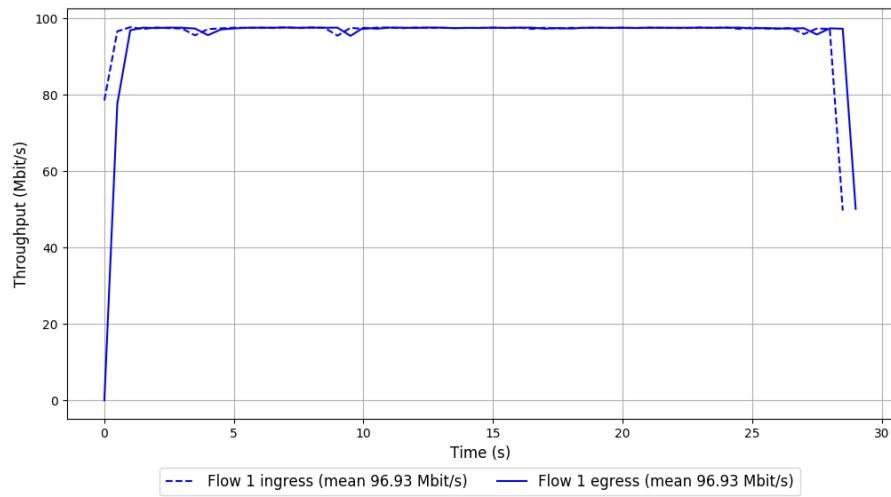


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 20:39:29
End at: 2019-06-27 20:39:59
Local clock offset: -6.412 ms
Remote clock offset: 0.518 ms

# Below is generated by plot.py at 2019-06-27 21:14:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 3.607 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 3.607 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC3 — Data Link

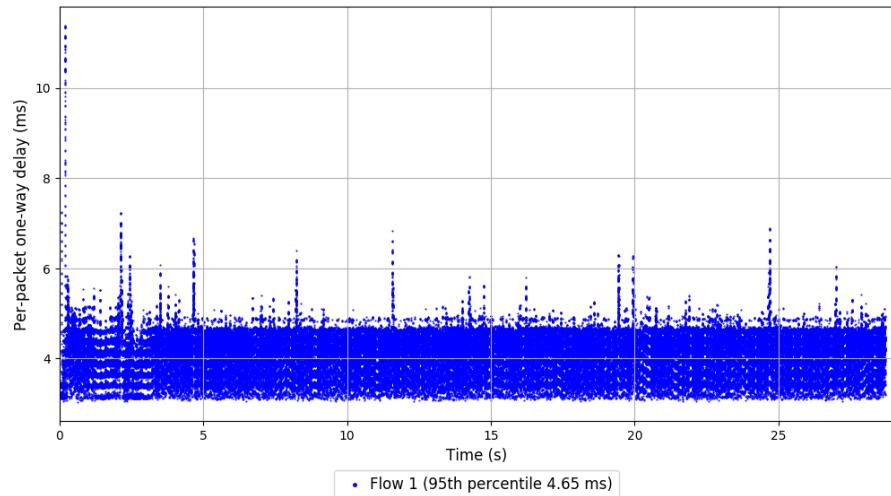
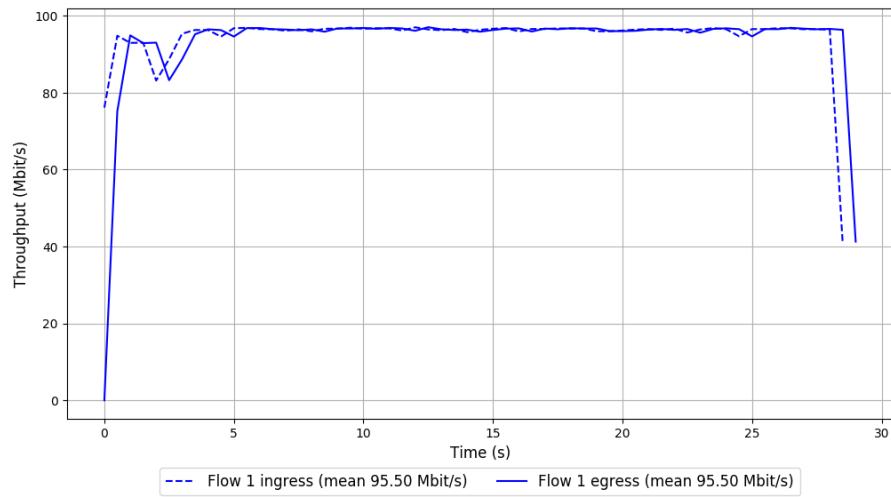


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 21:04:03
End at: 2019-06-27 21:04:33
Local clock offset: -6.064 ms
Remote clock offset: 0.519 ms

# Below is generated by plot.py at 2019-06-27 21:14:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 4.647 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 4.647 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC3 — Data Link

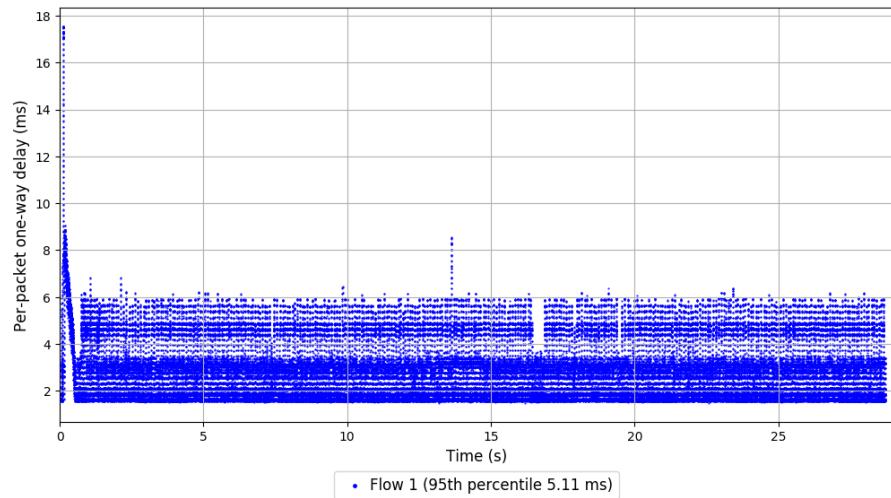
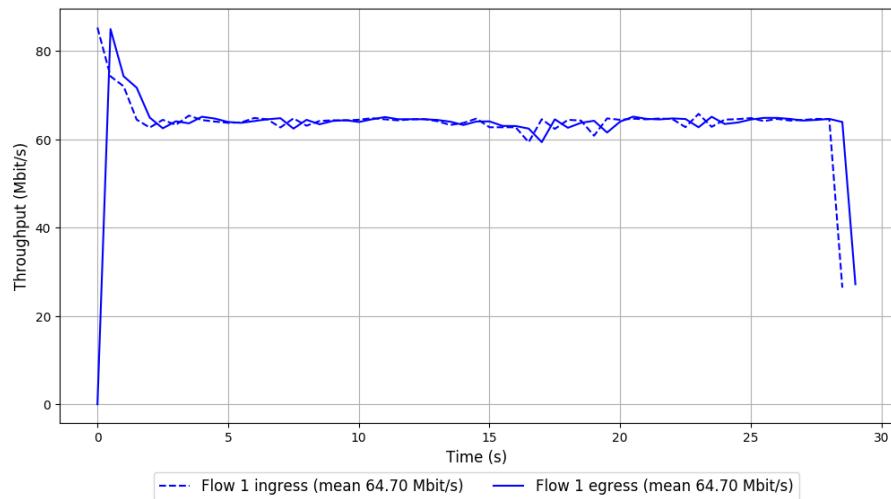


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 19:10:17
End at: 2019-06-27 19:10:47
Local clock offset: -6.276 ms
Remote clock offset: -0.631 ms

# Below is generated by plot.py at 2019-06-27 21:14:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.70 Mbit/s
95th percentile per-packet one-way delay: 5.110 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.70 Mbit/s
95th percentile per-packet one-way delay: 5.110 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC5 — Data Link

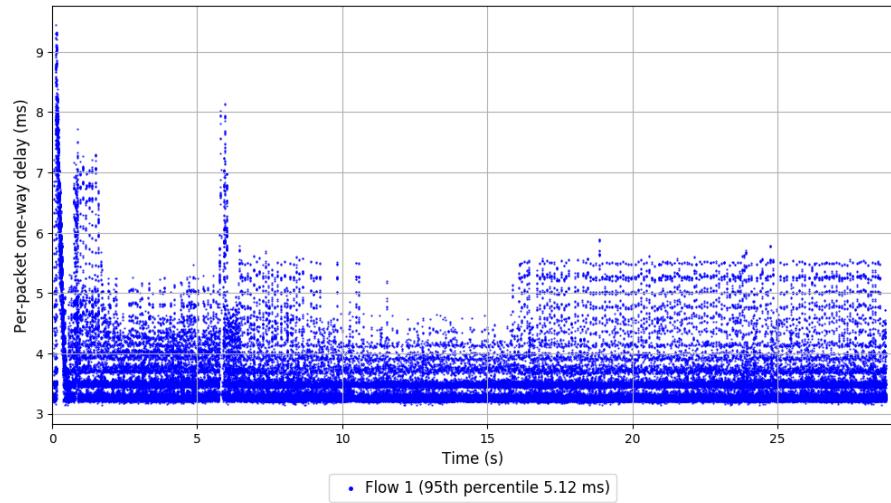
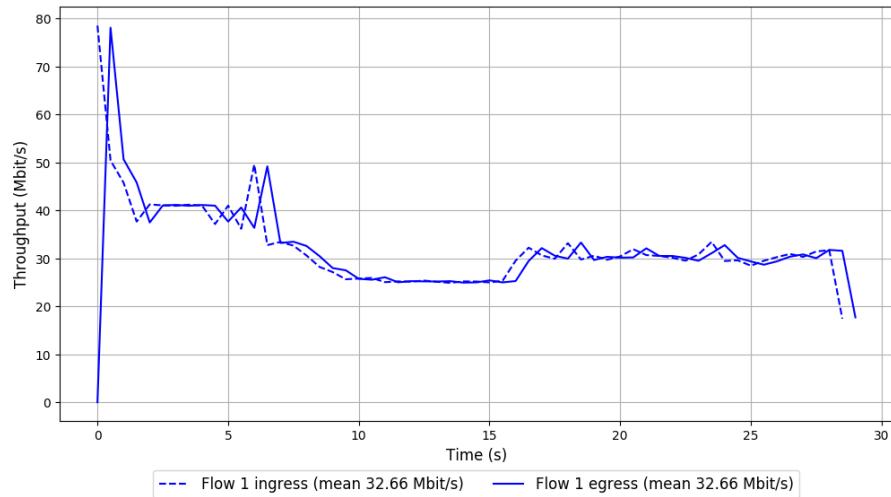


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 19:34:51
End at: 2019-06-27 19:35:21
Local clock offset: -5.81 ms
Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2019-06-27 21:14:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.66 Mbit/s
95th percentile per-packet one-way delay: 5.115 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.66 Mbit/s
95th percentile per-packet one-way delay: 5.115 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC5 — Data Link

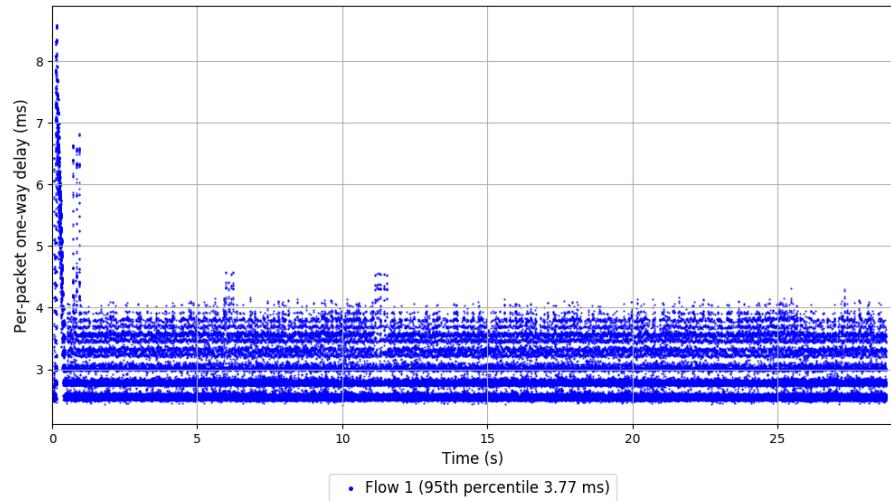
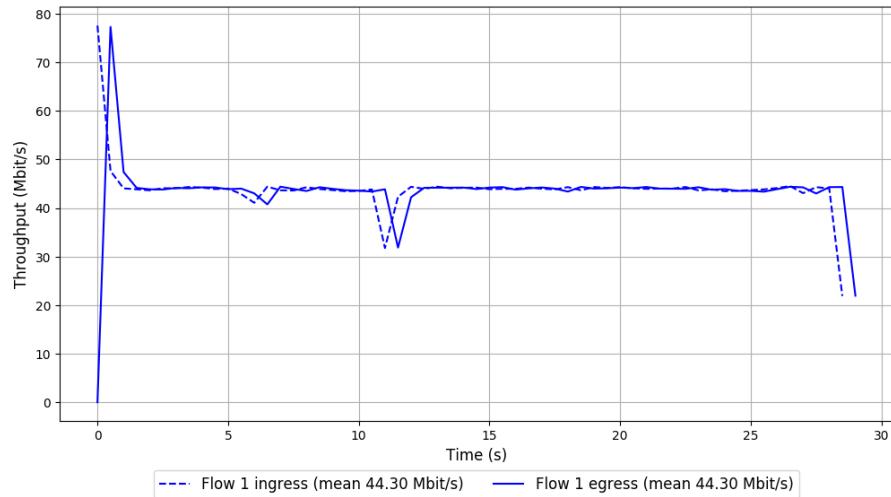


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 19:59:22
End at: 2019-06-27 19:59:52
Local clock offset: -5.015 ms
Remote clock offset: 0.127 ms

# Below is generated by plot.py at 2019-06-27 21:14:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.30 Mbit/s
95th percentile per-packet one-way delay: 3.770 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.30 Mbit/s
95th percentile per-packet one-way delay: 3.770 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC5 — Data Link

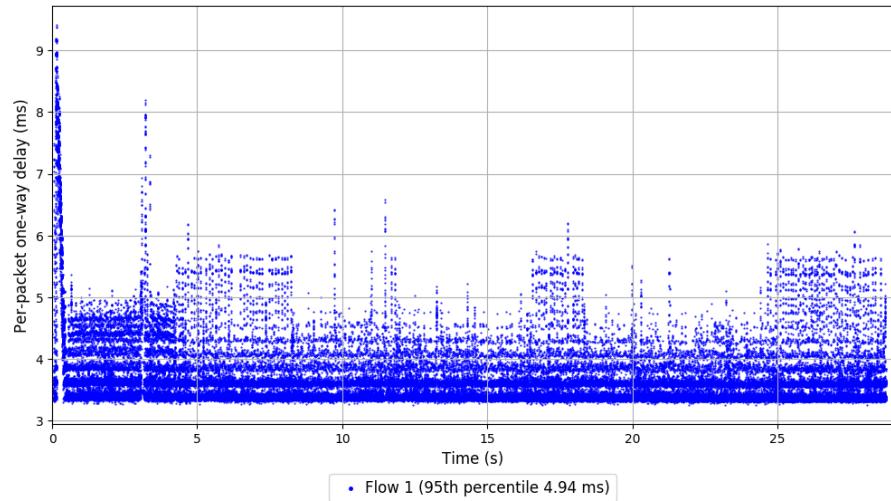
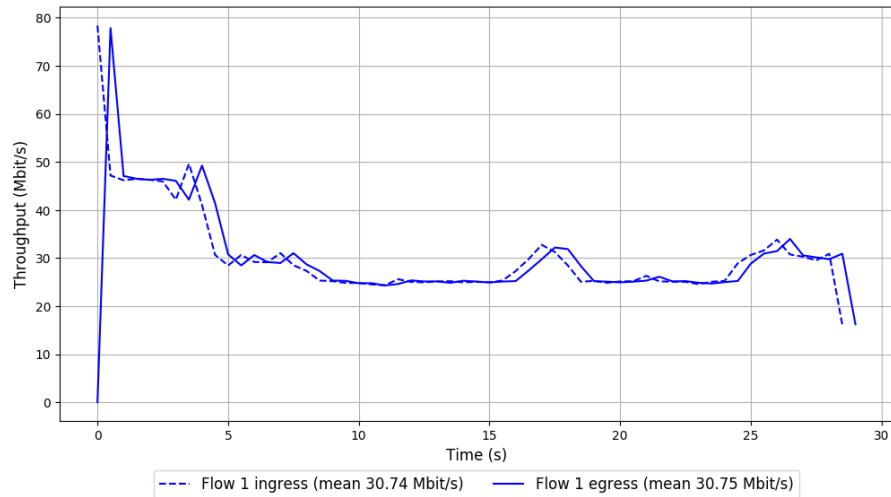


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 20:23:54
End at: 2019-06-27 20:24:24
Local clock offset: -6.169 ms
Remote clock offset: 0.421 ms

# Below is generated by plot.py at 2019-06-27 21:14:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 4.942 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 4.942 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC5 — Data Link

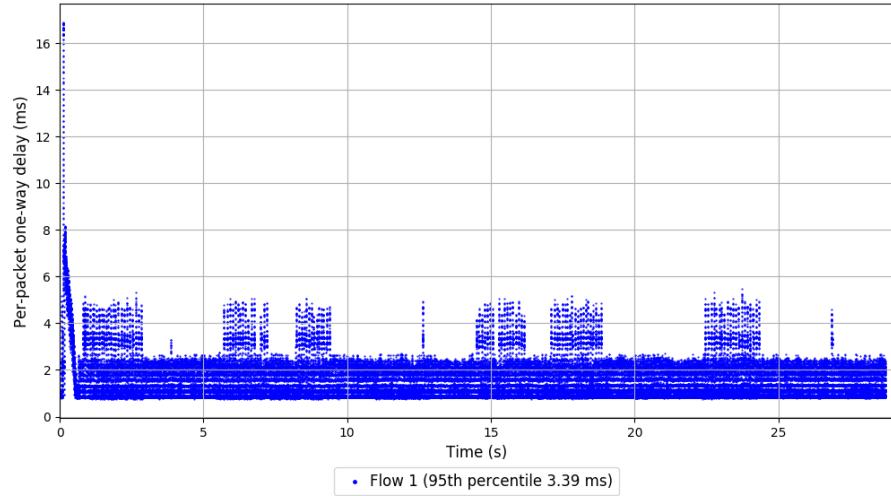
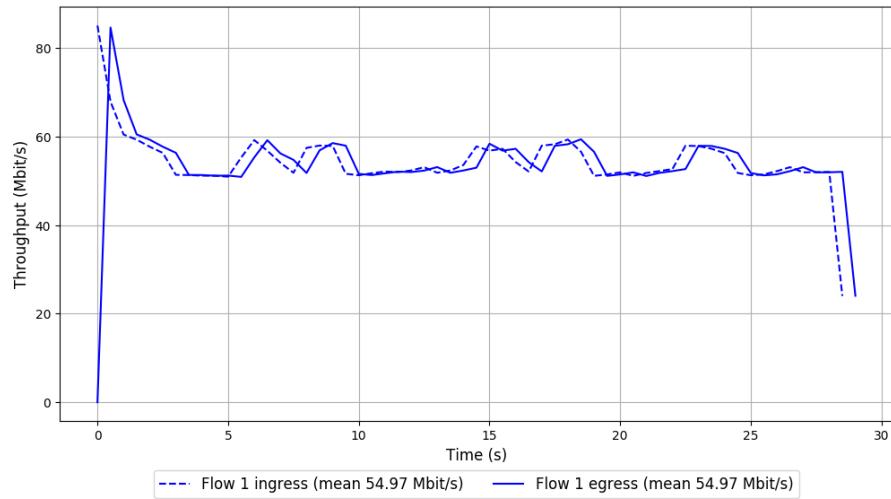


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 20:48:26
End at: 2019-06-27 20:48:56
Local clock offset: -5.67 ms
Remote clock offset: 0.522 ms

# Below is generated by plot.py at 2019-06-27 21:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.97 Mbit/s
95th percentile per-packet one-way delay: 3.389 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.97 Mbit/s
95th percentile per-packet one-way delay: 3.389 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC5 — Data Link

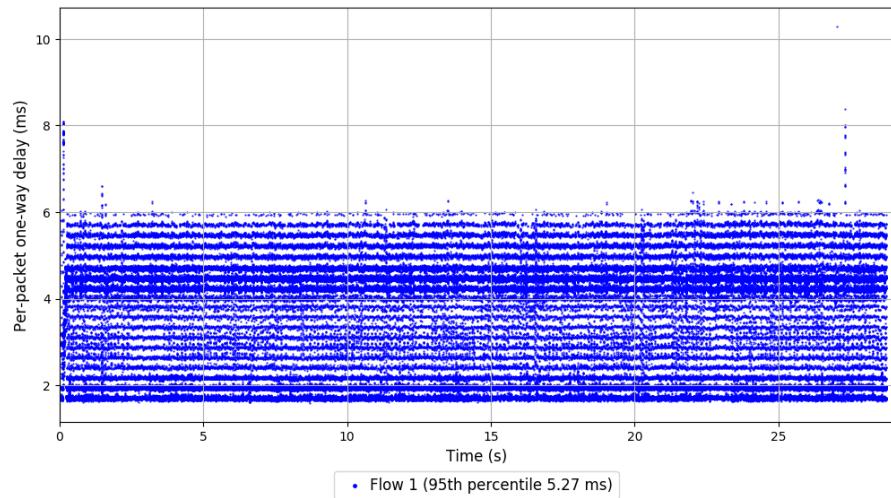
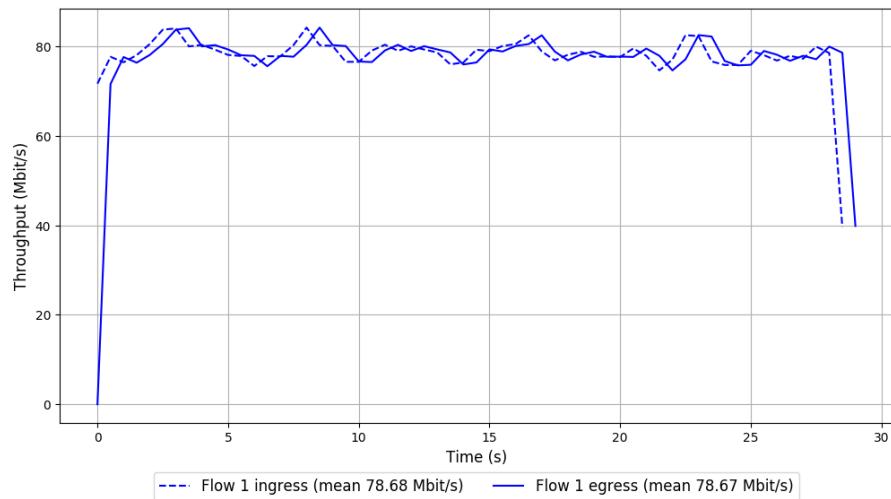


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-06-27 19:27:03
End at: 2019-06-27 19:27:33
Local clock offset: -5.983 ms
Remote clock offset: -0.281 ms

# Below is generated by plot.py at 2019-06-27 21:15:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.67 Mbit/s
95th percentile per-packet one-way delay: 5.269 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.67 Mbit/s
95th percentile per-packet one-way delay: 5.269 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link

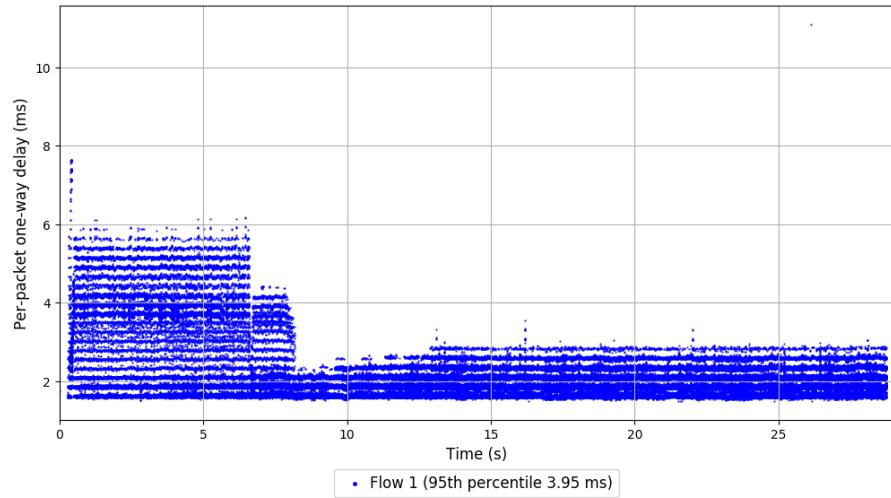
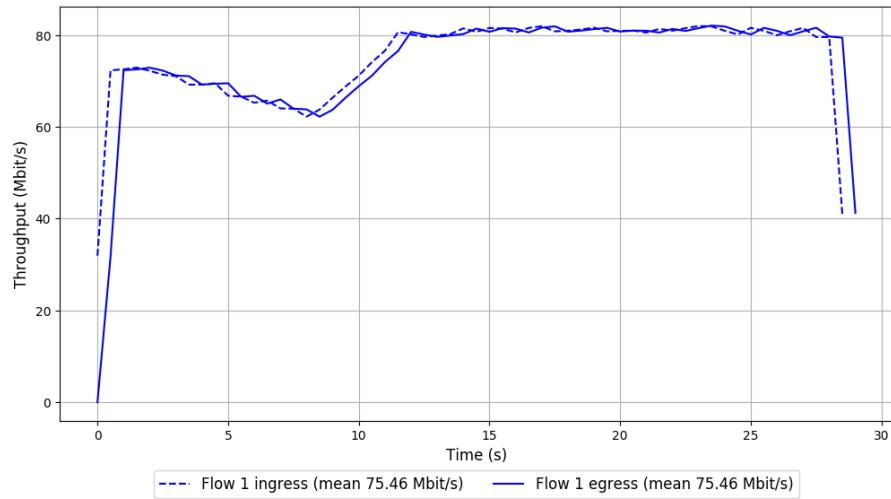


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 19:51:33
End at: 2019-06-27 19:52:03
Local clock offset: -5.57 ms
Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2019-06-27 21:15:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.46 Mbit/s
95th percentile per-packet one-way delay: 3.946 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.46 Mbit/s
95th percentile per-packet one-way delay: 3.946 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesD — Data Link

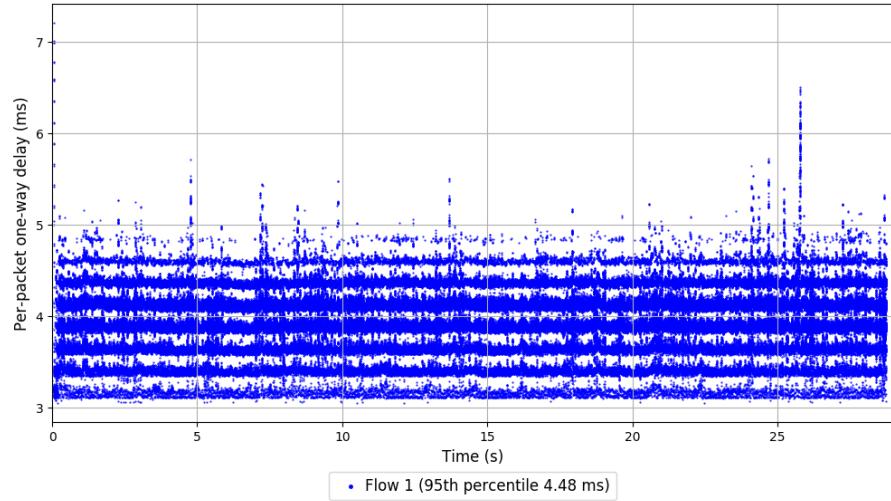
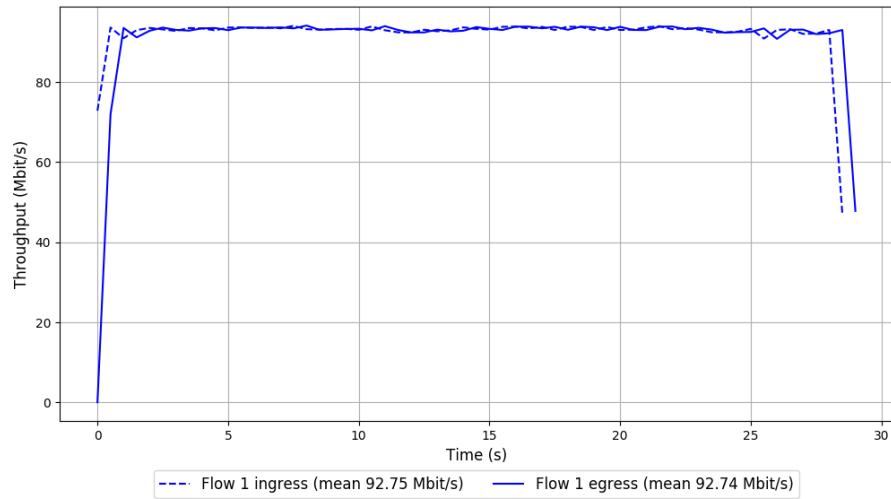


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 20:16:04
End at: 2019-06-27 20:16:34
Local clock offset: -5.495 ms
Remote clock offset: 0.334 ms

# Below is generated by plot.py at 2019-06-27 21:15:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.74 Mbit/s
95th percentile per-packet one-way delay: 4.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.74 Mbit/s
95th percentile per-packet one-way delay: 4.478 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesD — Data Link

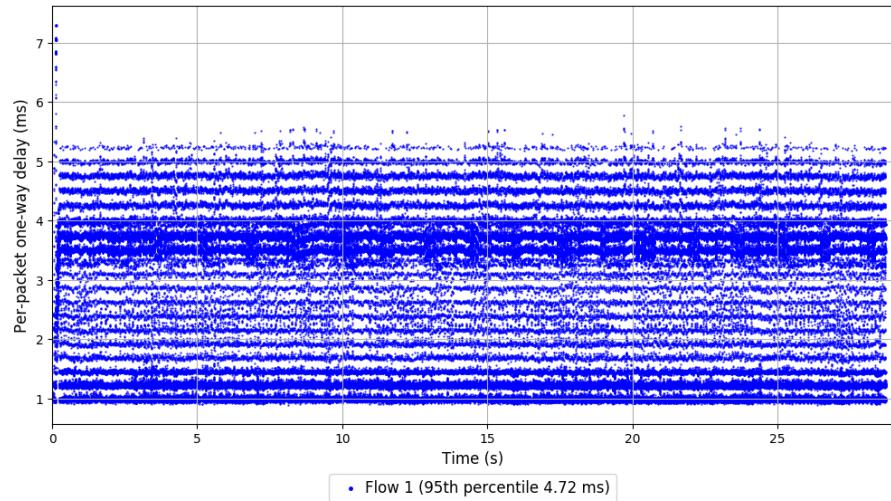
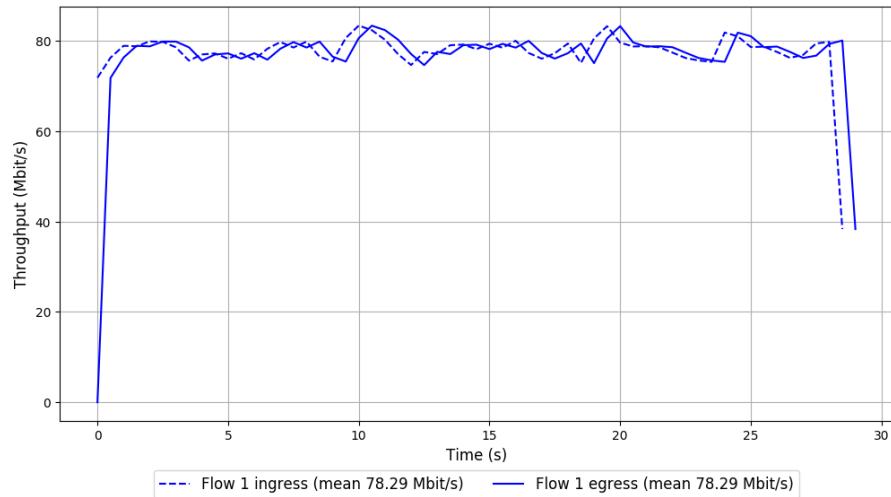


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 20:40:38
End at: 2019-06-27 20:41:08
Local clock offset: -5.849 ms
Remote clock offset: 0.435 ms

# Below is generated by plot.py at 2019-06-27 21:15:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.29 Mbit/s
95th percentile per-packet one-way delay: 4.718 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.29 Mbit/s
95th percentile per-packet one-way delay: 4.718 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesD — Data Link

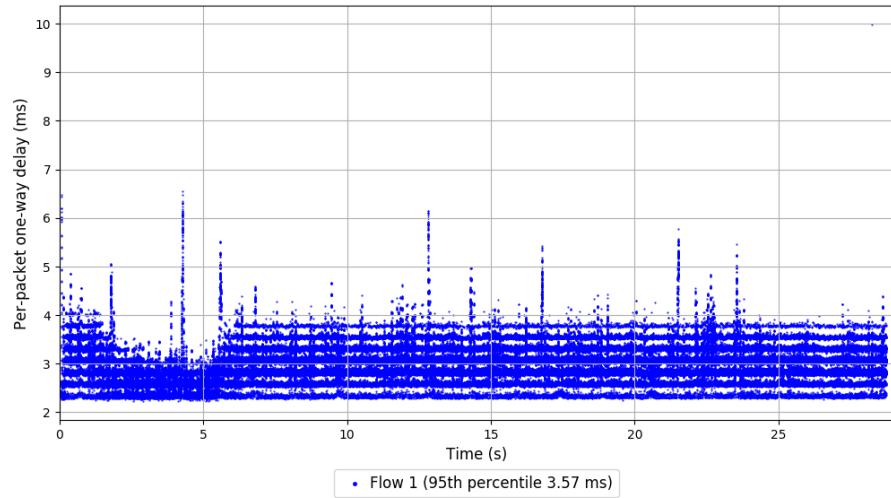
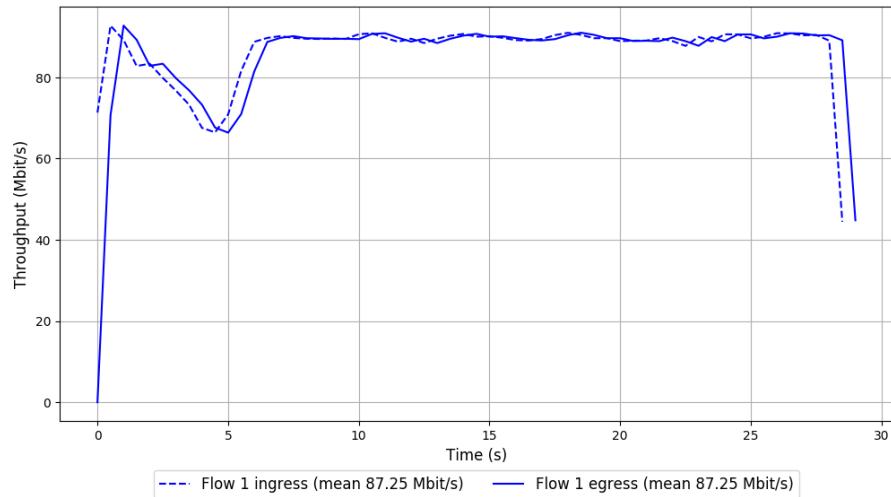


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 21:05:11
End at: 2019-06-27 21:05:41
Local clock offset: -5.271 ms
Remote clock offset: 0.477 ms

# Below is generated by plot.py at 2019-06-27 21:15:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.25 Mbit/s
95th percentile per-packet one-way delay: 3.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.25 Mbit/s
95th percentile per-packet one-way delay: 3.566 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesD — Data Link

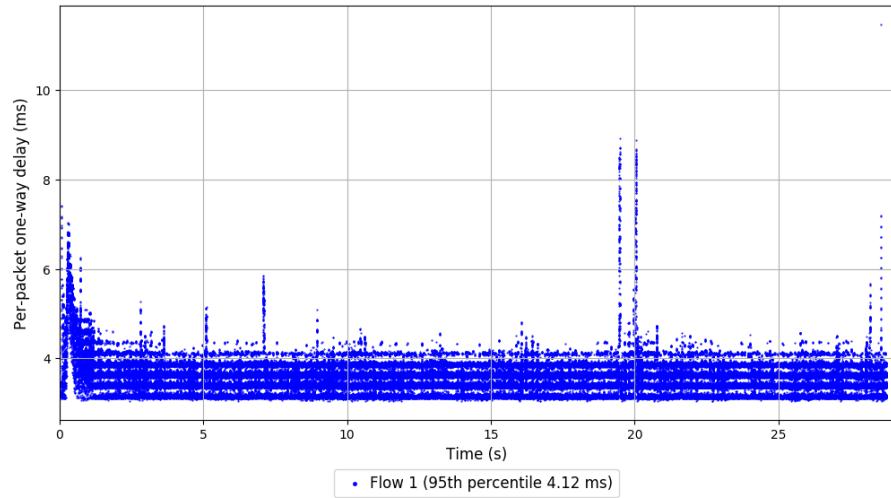
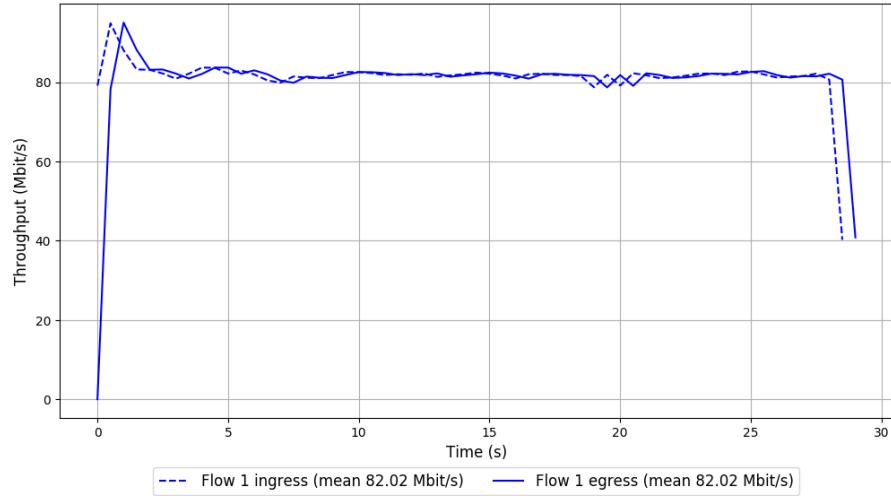


```
Run 1: Statistics of Indigo-MusesT
```

```
Start at: 2019-06-27 19:11:24
End at: 2019-06-27 19:11:54
Local clock offset: -6.245 ms
Remote clock offset: -0.613 ms

# Below is generated by plot.py at 2019-06-27 21:15:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.02 Mbit/s
95th percentile per-packet one-way delay: 4.122 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.02 Mbit/s
95th percentile per-packet one-way delay: 4.122 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesT — Data Link

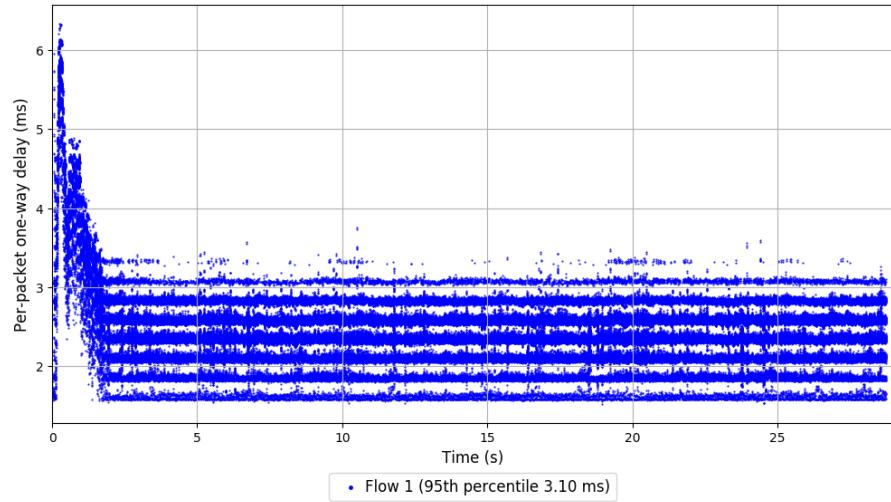
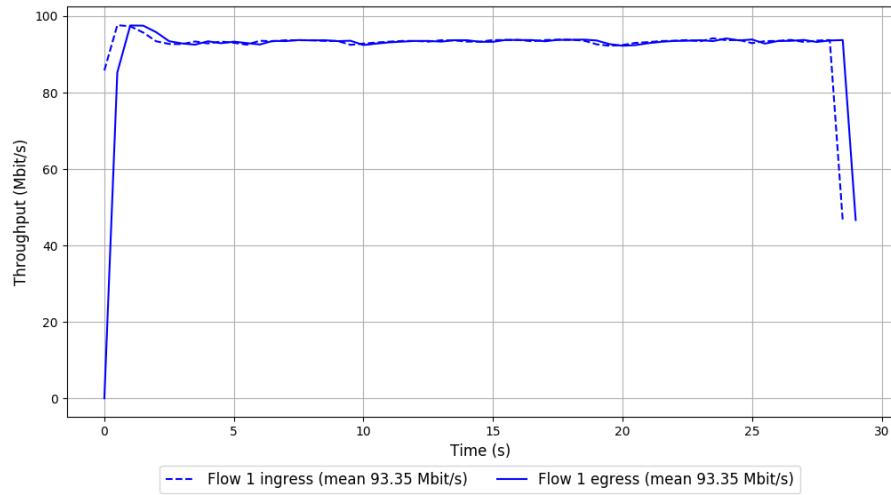


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 19:35:57
End at: 2019-06-27 19:36:27
Local clock offset: -5.711 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2019-06-27 21:15:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 3.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 3.103 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesT — Data Link

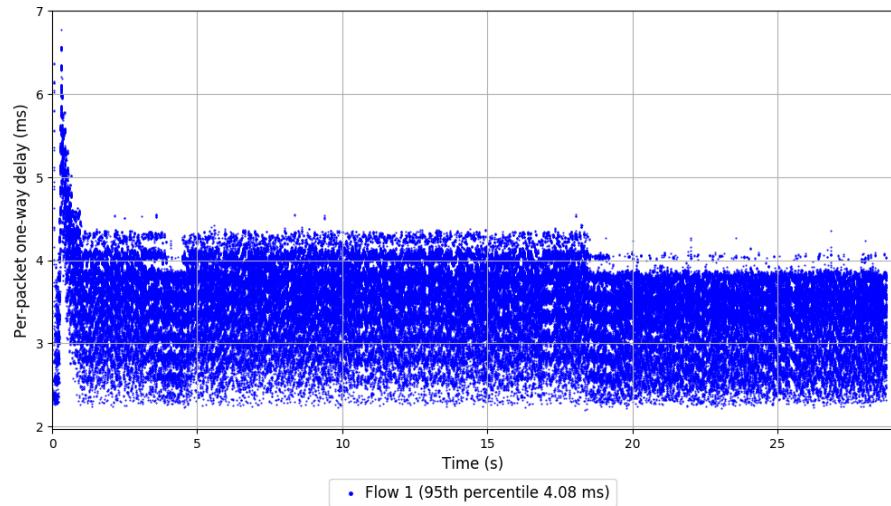
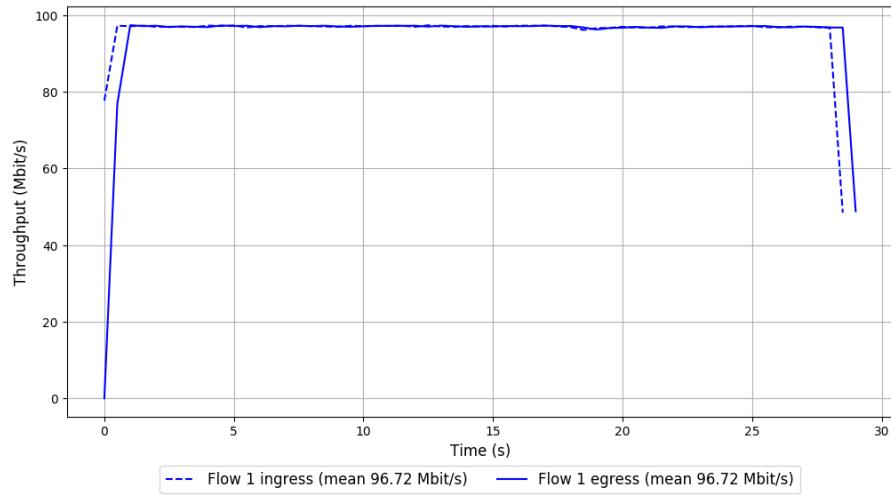


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 20:00:28
End at: 2019-06-27 20:00:58
Local clock offset: -4.801 ms
Remote clock offset: 0.139 ms

# Below is generated by plot.py at 2019-06-27 21:15:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.72 Mbit/s
95th percentile per-packet one-way delay: 4.079 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.72 Mbit/s
95th percentile per-packet one-way delay: 4.079 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesT — Data Link

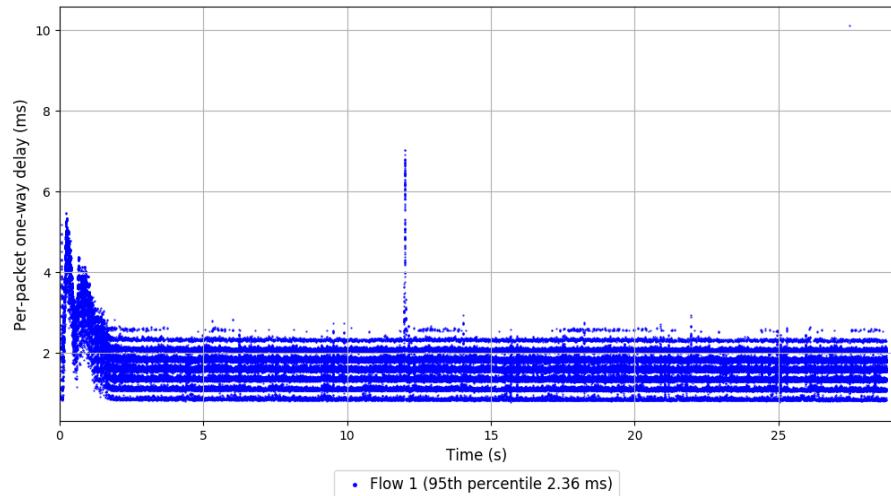
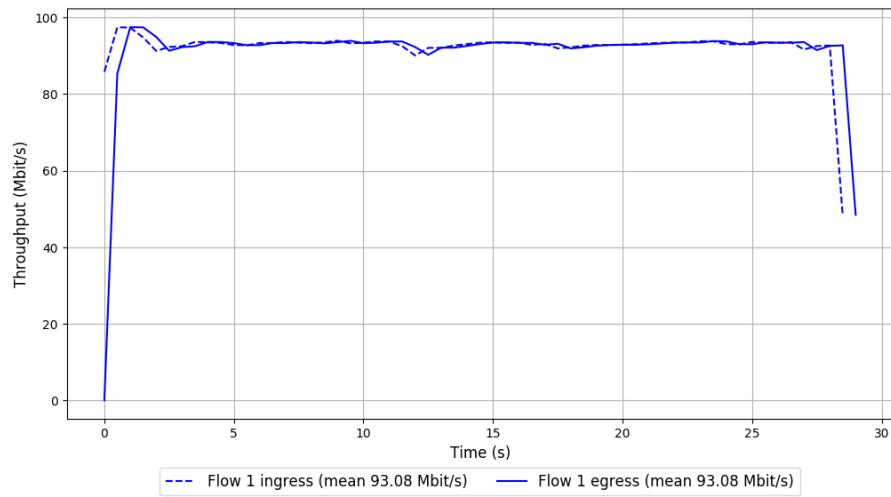


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 20:24:59
End at: 2019-06-27 20:25:29
Local clock offset: -5.271 ms
Remote clock offset: 0.433 ms

# Below is generated by plot.py at 2019-06-27 21:16:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.08 Mbit/s
95th percentile per-packet one-way delay: 2.363 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.08 Mbit/s
95th percentile per-packet one-way delay: 2.363 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesT — Data Link

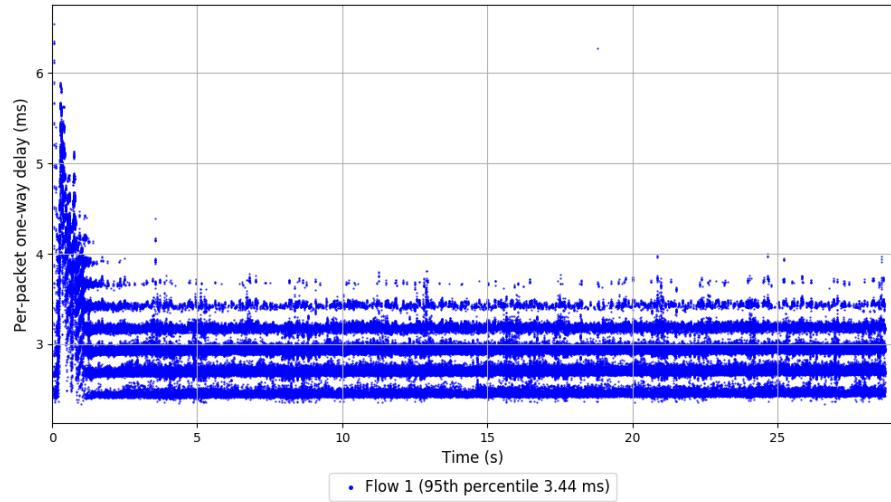
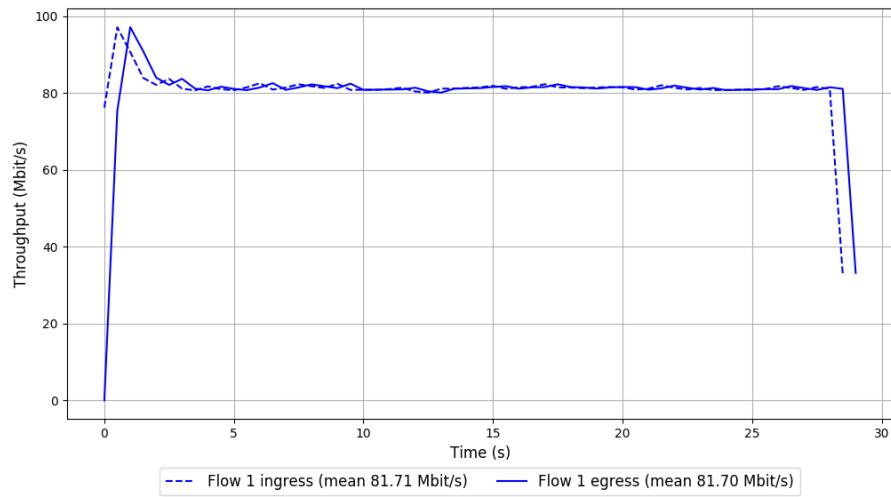


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 20:49:33
End at: 2019-06-27 20:50:03
Local clock offset: -5.608 ms
Remote clock offset: 0.575 ms

# Below is generated by plot.py at 2019-06-27 21:16:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.70 Mbit/s
95th percentile per-packet one-way delay: 3.440 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.70 Mbit/s
95th percentile per-packet one-way delay: 3.440 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesT — Data Link

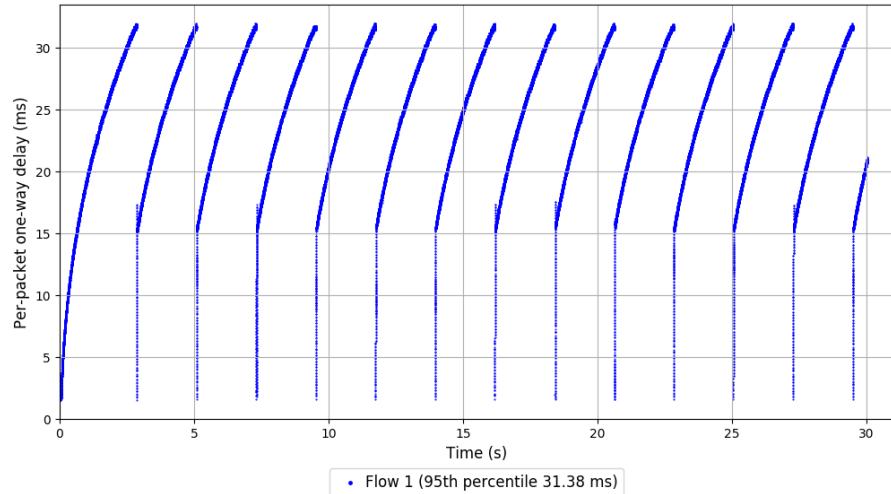
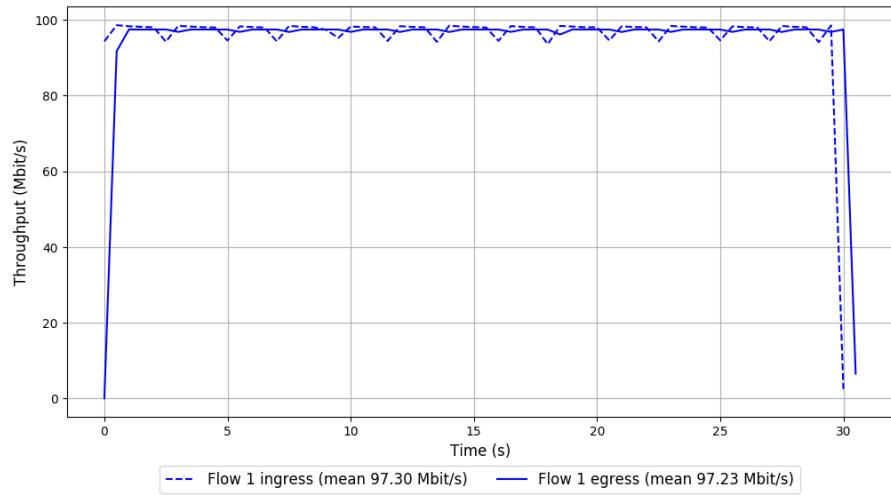


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-06-27 19:29:19
End at: 2019-06-27 19:29:49
Local clock offset: -5.864 ms
Remote clock offset: -0.274 ms

# Below is generated by plot.py at 2019-06-27 21:16:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.23 Mbit/s
95th percentile per-packet one-way delay: 31.378 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.23 Mbit/s
95th percentile per-packet one-way delay: 31.378 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link

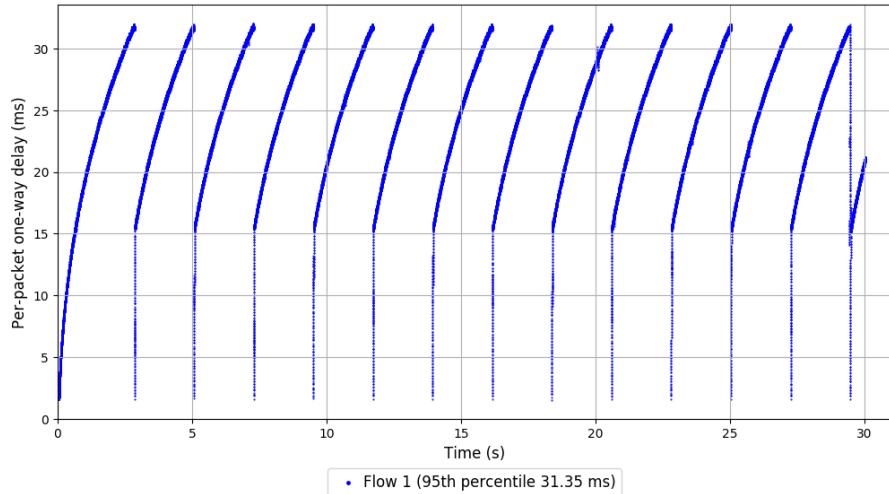
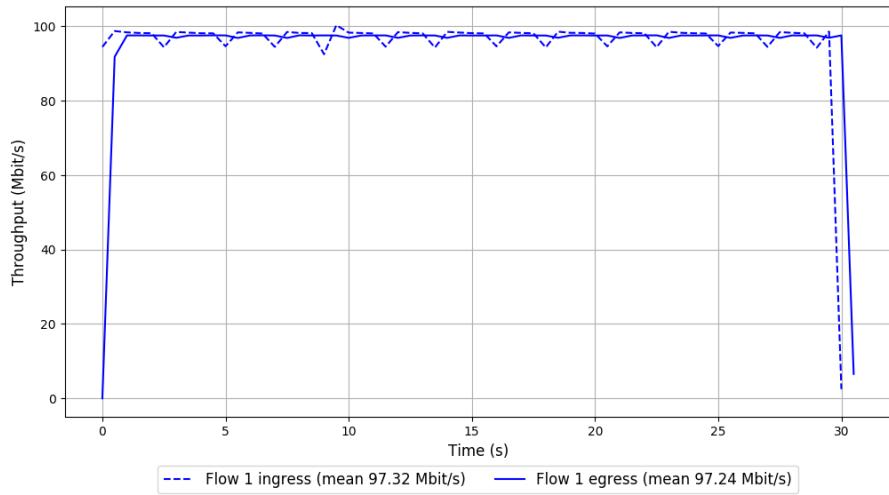


Run 2: Statistics of LEDBAT

```
Start at: 2019-06-27 19:53:50
End at: 2019-06-27 19:54:20
Local clock offset: -5.587 ms
Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2019-06-27 21:16:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 31.348 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 31.348 ms
Loss rate: 0.01%
```

Run 2: Report of LEDBAT — Data Link

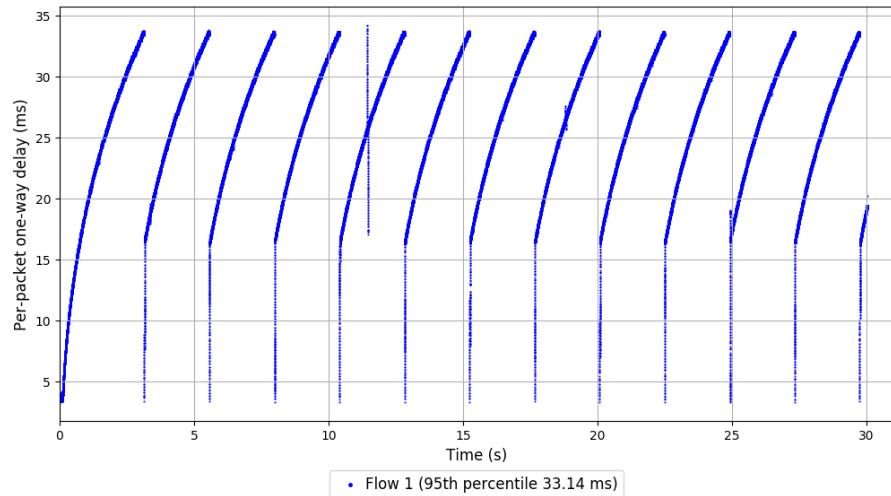
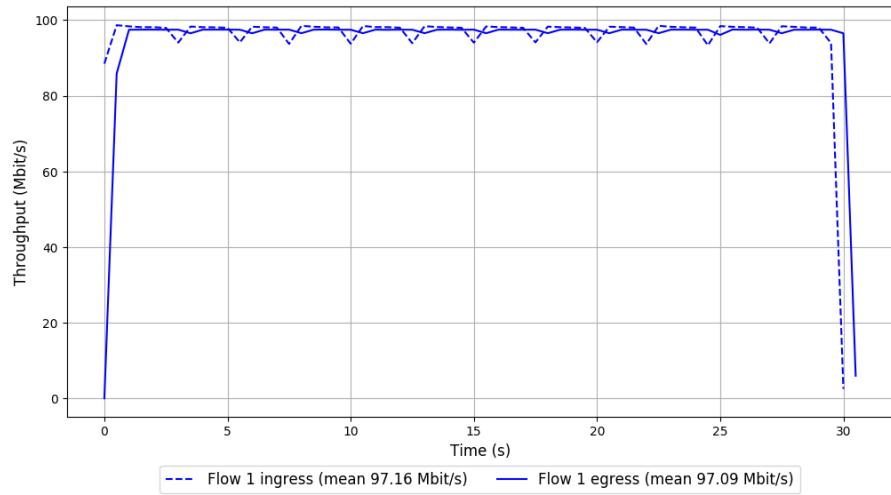


Run 3: Statistics of LEDBAT

```
Start at: 2019-06-27 20:18:22
End at: 2019-06-27 20:18:52
Local clock offset: -5.801 ms
Remote clock offset: 0.41 ms

# Below is generated by plot.py at 2019-06-27 21:16:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 33.144 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 33.144 ms
Loss rate: 0.01%
```

Run 3: Report of LEDBAT — Data Link

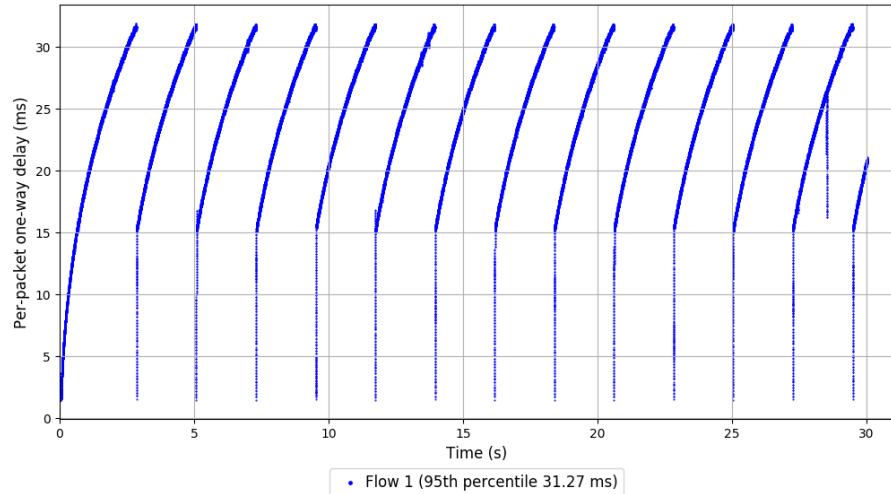
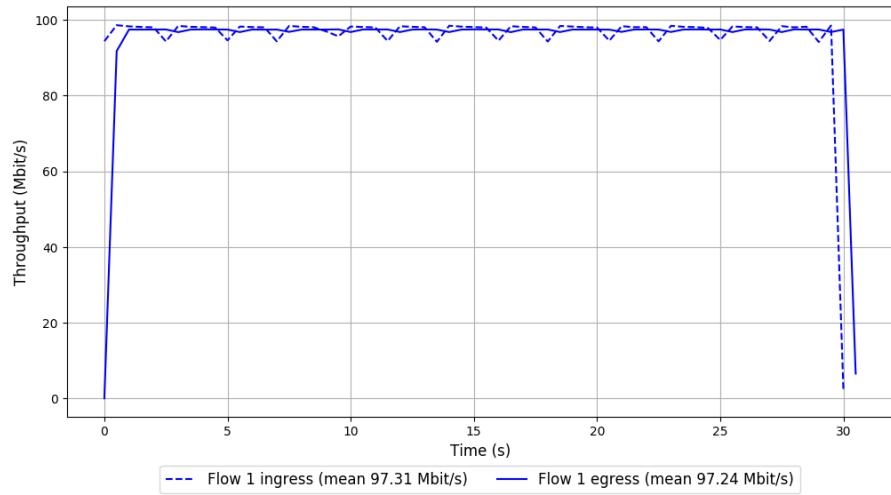


Run 4: Statistics of LEDBAT

```
Start at: 2019-06-27 20:42:54
End at: 2019-06-27 20:43:24
Local clock offset: -6.436 ms
Remote clock offset: 0.411 ms

# Below is generated by plot.py at 2019-06-27 21:16:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 31.274 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 31.274 ms
Loss rate: 0.01%
```

Run 4: Report of LEDBAT — Data Link

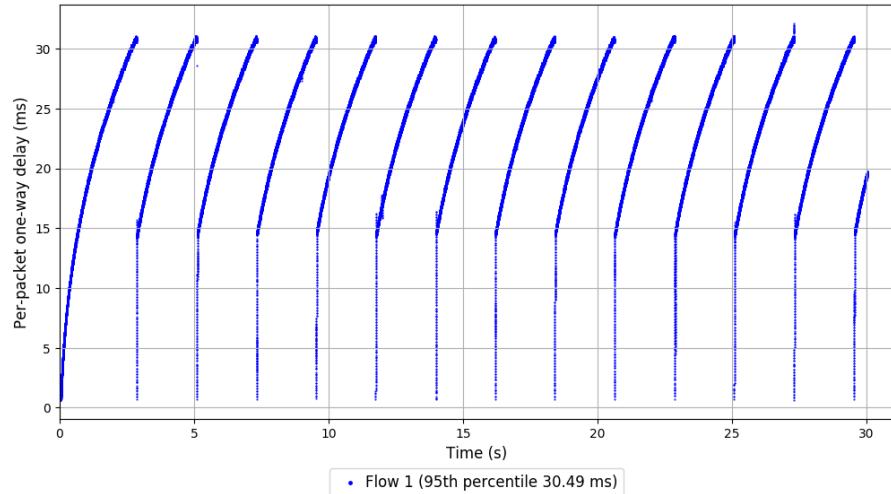
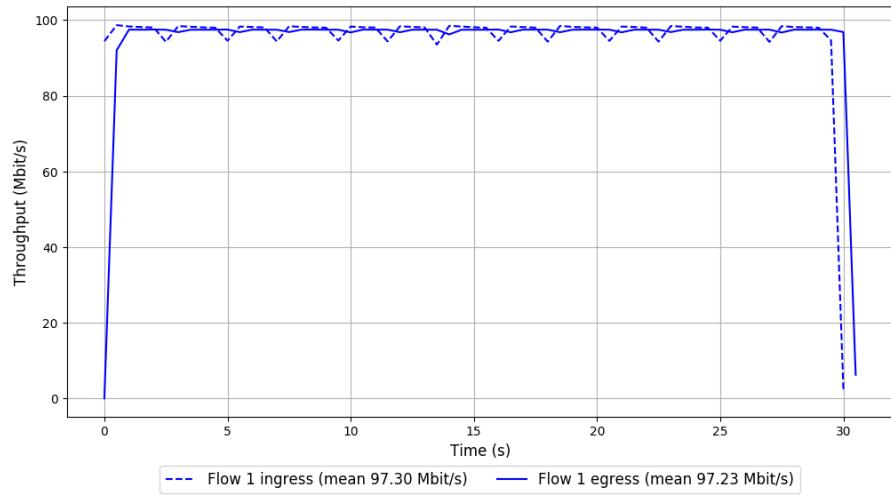


Run 5: Statistics of LEDBAT

```
Start at: 2019-06-27 21:07:28
End at: 2019-06-27 21:07:58
Local clock offset: -5.241 ms
Remote clock offset: 0.417 ms

# Below is generated by plot.py at 2019-06-27 21:16:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.23 Mbit/s
95th percentile per-packet one-way delay: 30.489 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.23 Mbit/s
95th percentile per-packet one-way delay: 30.489 ms
Loss rate: 0.01%
```

Run 5: Report of LEDBAT — Data Link

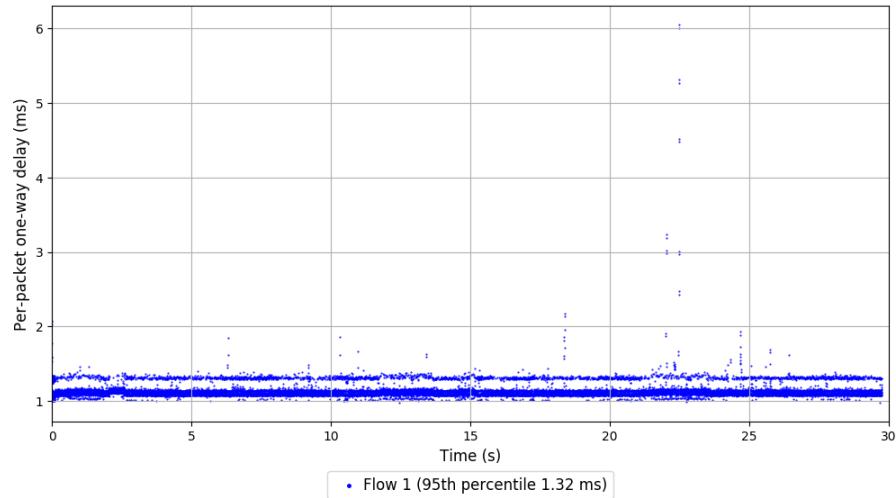
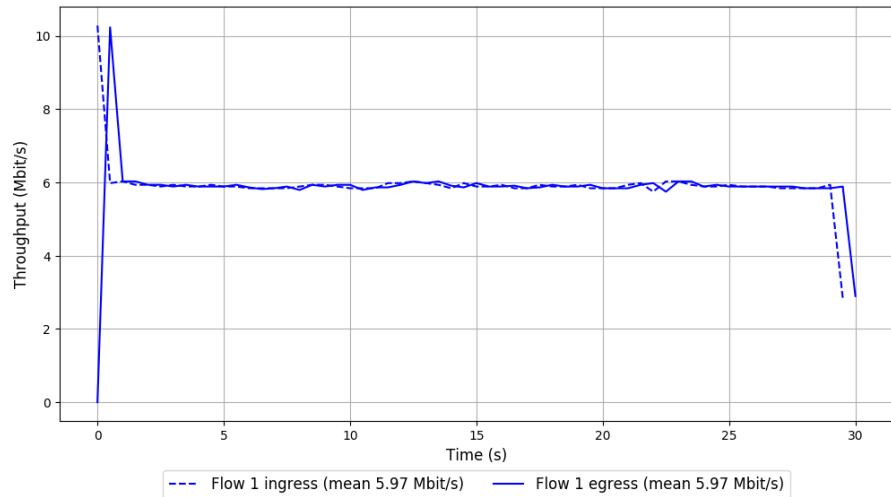


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-06-27 19:05:56
End at: 2019-06-27 19:06:26
Local clock offset: -5.868 ms
Remote clock offset: -0.747 ms

# Below is generated by plot.py at 2019-06-27 21:16:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.97 Mbit/s
95th percentile per-packet one-way delay: 1.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.97 Mbit/s
95th percentile per-packet one-way delay: 1.321 ms
Loss rate: 0.00%
```

Run 1: Report of Muses_DecisionTree — Data Link

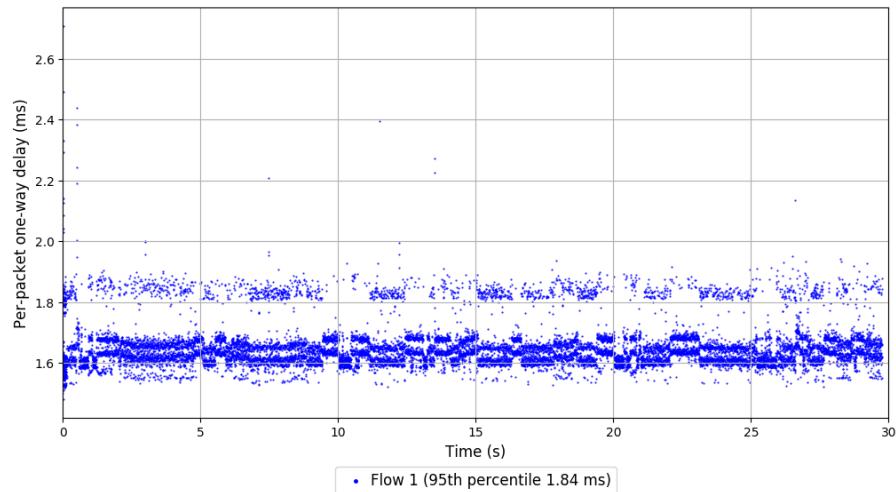
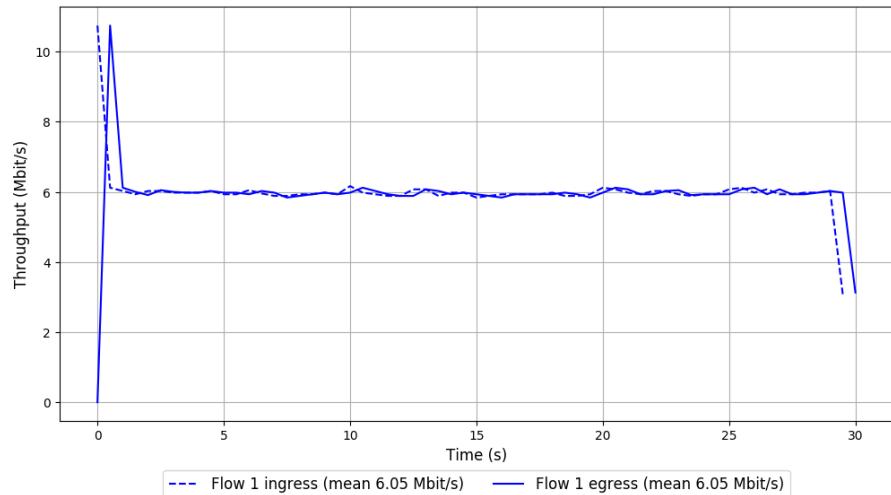


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-06-27 19:30:29
End at: 2019-06-27 19:30:59
Local clock offset: -5.837 ms
Remote clock offset: -0.285 ms

# Below is generated by plot.py at 2019-06-27 21:16:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 1.838 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 1.838 ms
Loss rate: 0.00%
```

Run 2: Report of Muses_DecisionTree — Data Link

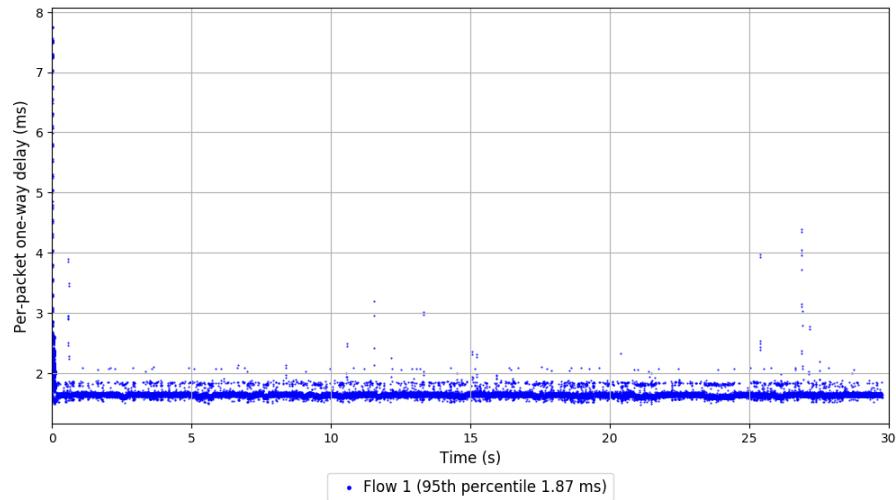
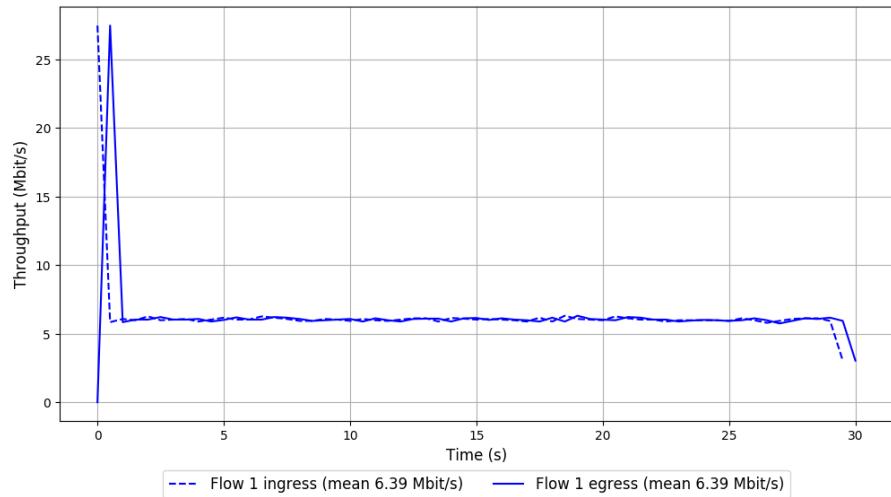


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-06-27 19:54:59
End at: 2019-06-27 19:55:29
Local clock offset: -5.588 ms
Remote clock offset: 0.085 ms

# Below is generated by plot.py at 2019-06-27 21:16:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 1.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 1.869 ms
Loss rate: 0.00%
```

Run 3: Report of Muses_DecisionTree — Data Link

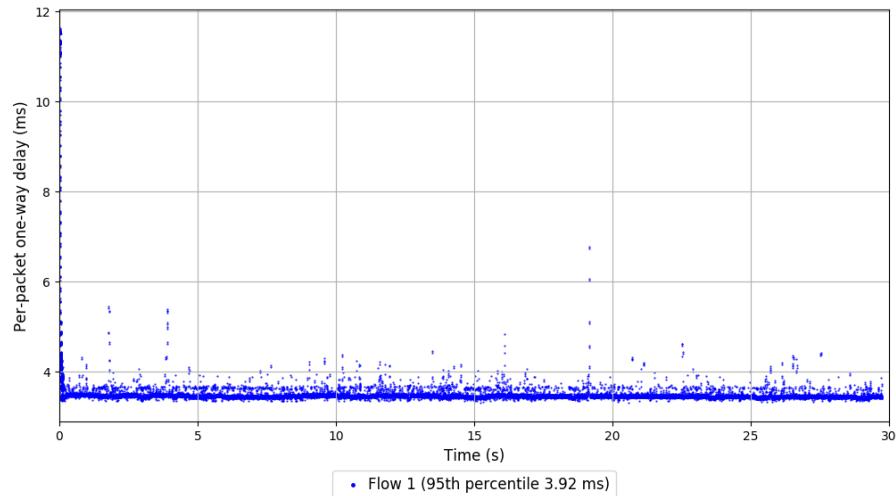
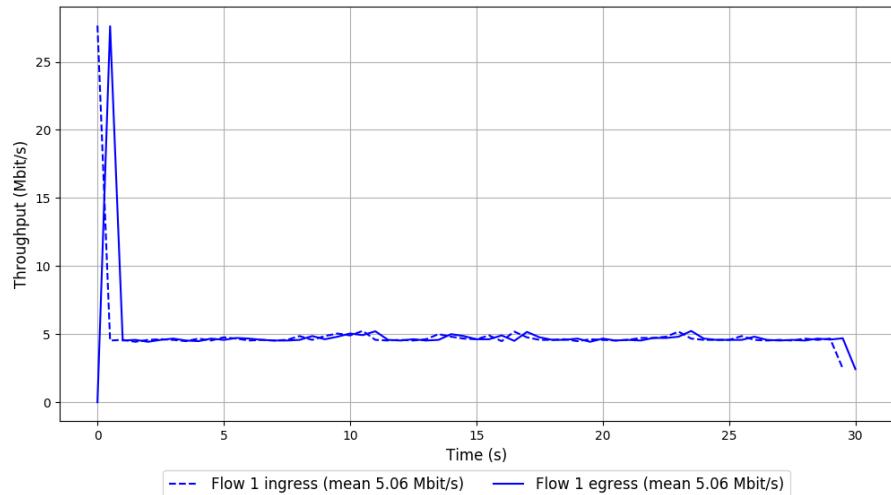


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-06-27 20:19:31
End at: 2019-06-27 20:20:01
Local clock offset: -5.849 ms
Remote clock offset: 0.425 ms

# Below is generated by plot.py at 2019-06-27 21:16:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 3.917 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 3.917 ms
Loss rate: 0.02%
```

Run 4: Report of Muses_DecisionTree — Data Link

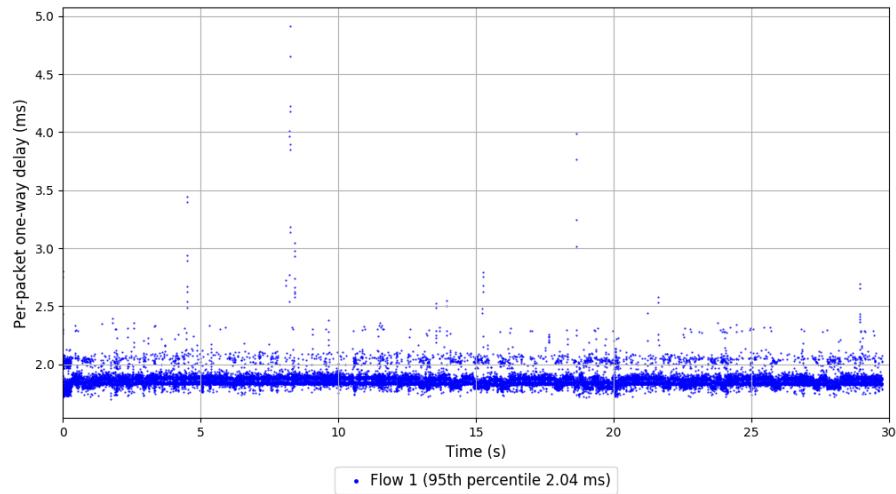
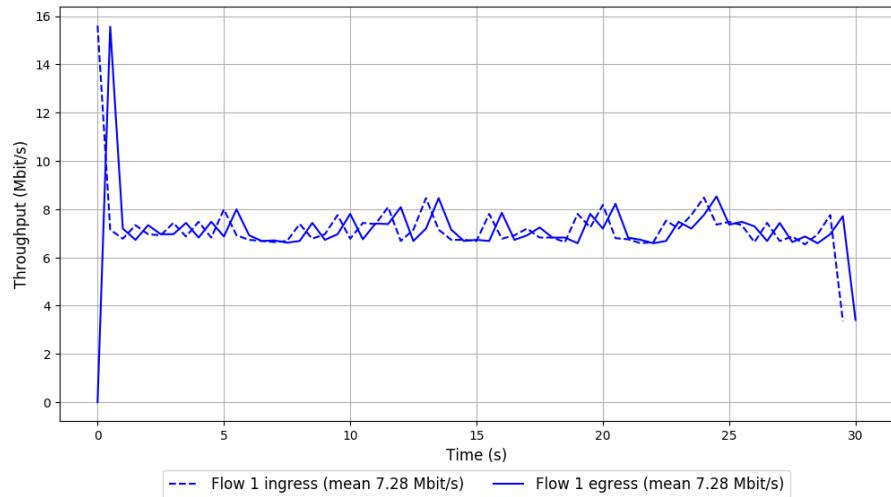


```
Run 5: Statistics of Muses\_DecisionTree
```

```
Start at: 2019-06-27 20:44:04
End at: 2019-06-27 20:44:34
Local clock offset: -6.664 ms
Remote clock offset: 0.45 ms

# Below is generated by plot.py at 2019-06-27 21:16:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 2.043 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 2.043 ms
Loss rate: 0.00%
```

Run 5: Report of Muses_DecisionTree — Data Link

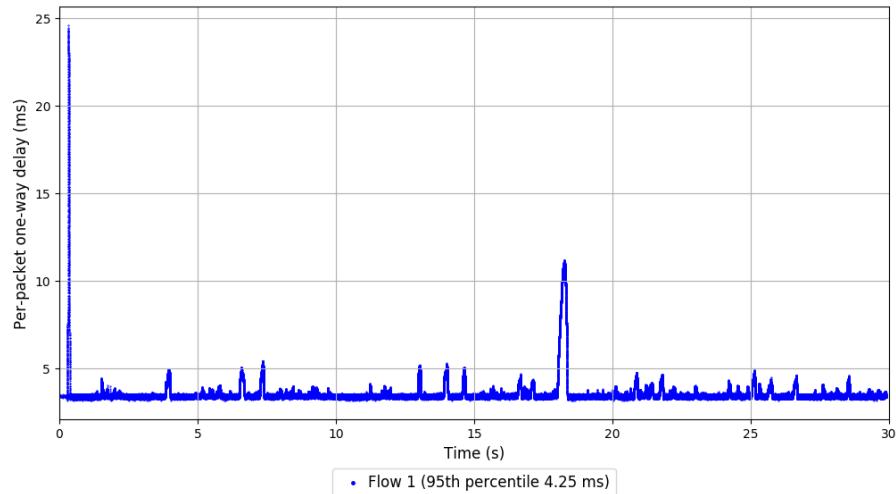
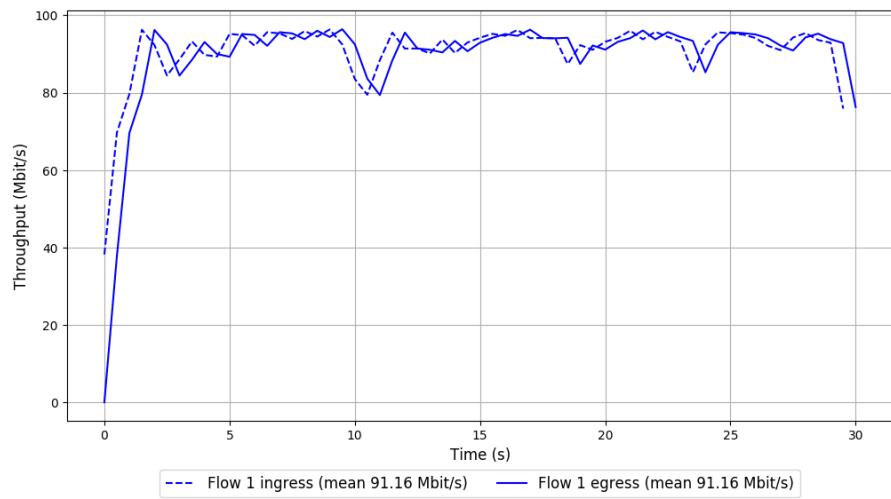


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-06-27 19:17:01
End at: 2019-06-27 19:17:31
Local clock offset: -6.404 ms
Remote clock offset: -0.515 ms

# Below is generated by plot.py at 2019-06-27 21:17:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.16 Mbit/s
95th percentile per-packet one-way delay: 4.255 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 91.16 Mbit/s
95th percentile per-packet one-way delay: 4.255 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Allegro — Data Link

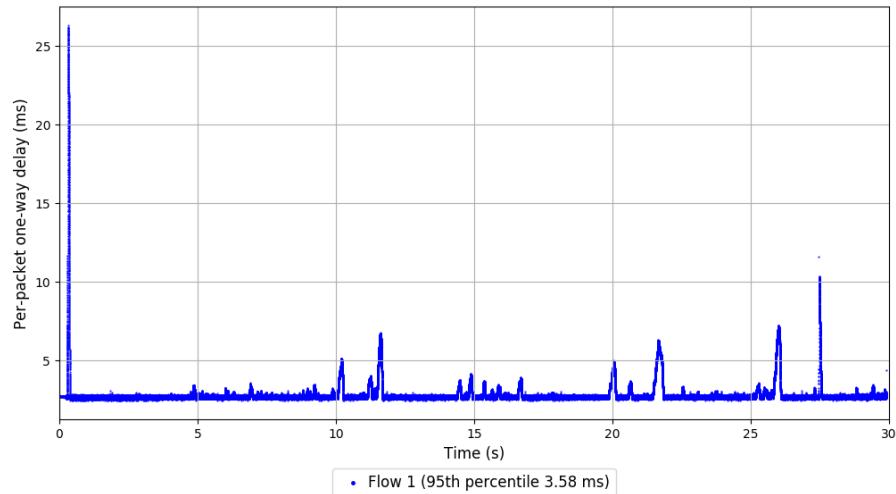
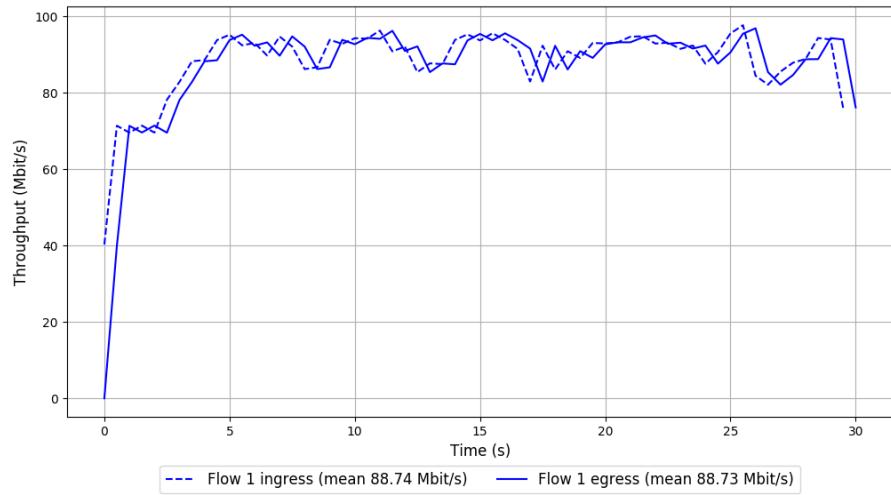


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-06-27 19:41:34
End at: 2019-06-27 19:42:04
Local clock offset: -5.064 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-06-27 21:17:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.73 Mbit/s
95th percentile per-packet one-way delay: 3.582 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.73 Mbit/s
95th percentile per-packet one-way delay: 3.582 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Allegro — Data Link

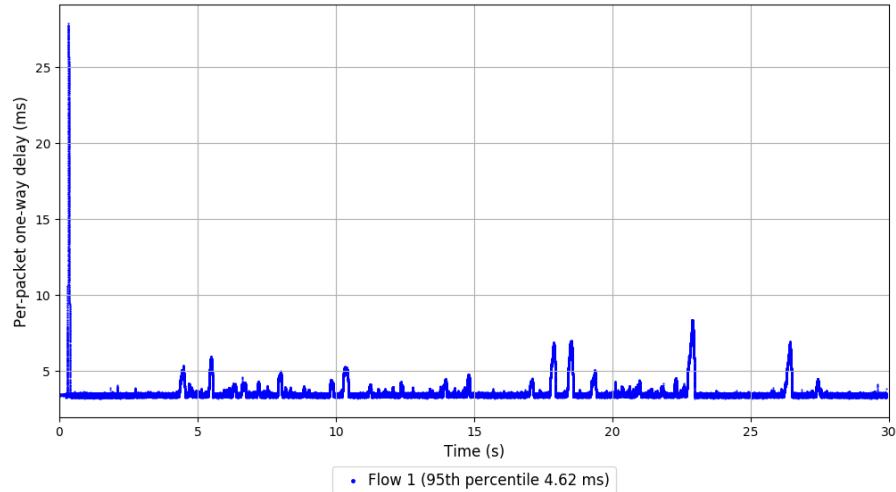
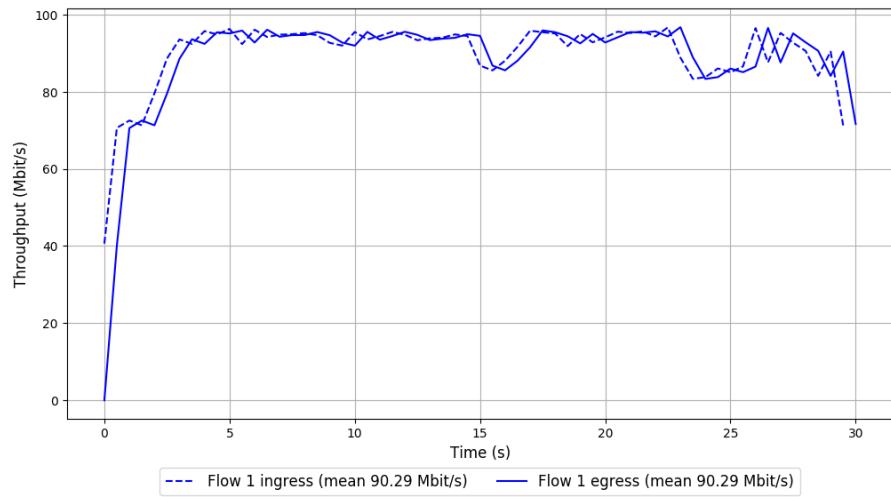


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-06-27 20:06:05
End at: 2019-06-27 20:06:35
Local clock offset: -5.783 ms
Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2019-06-27 21:17:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.29 Mbit/s
95th percentile per-packet one-way delay: 4.617 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.29 Mbit/s
95th percentile per-packet one-way delay: 4.617 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Allegro — Data Link

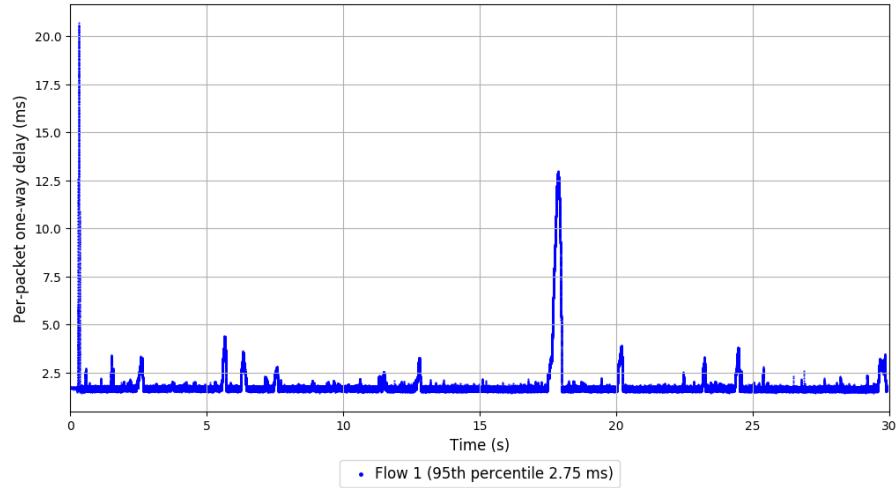
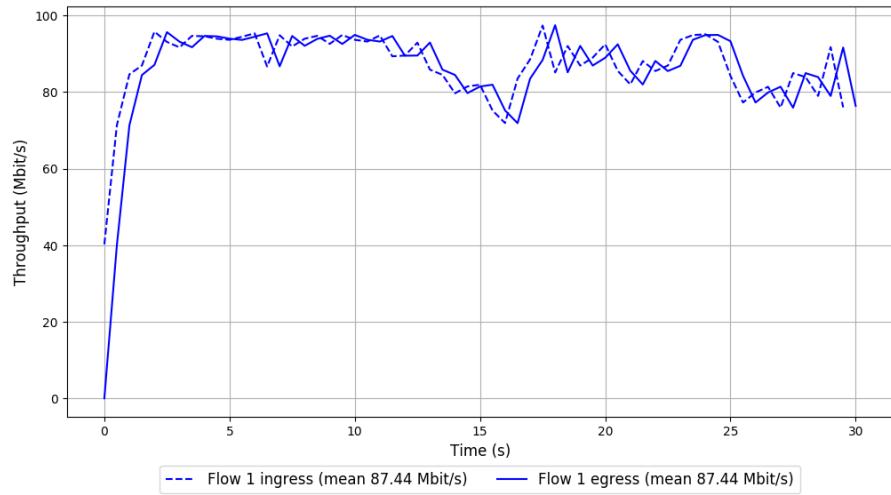


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-06-27 20:30:36
End at: 2019-06-27 20:31:06
Local clock offset: -6.199 ms
Remote clock offset: 0.471 ms

# Below is generated by plot.py at 2019-06-27 21:17:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.44 Mbit/s
95th percentile per-packet one-way delay: 2.749 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.44 Mbit/s
95th percentile per-packet one-way delay: 2.749 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Allegro — Data Link

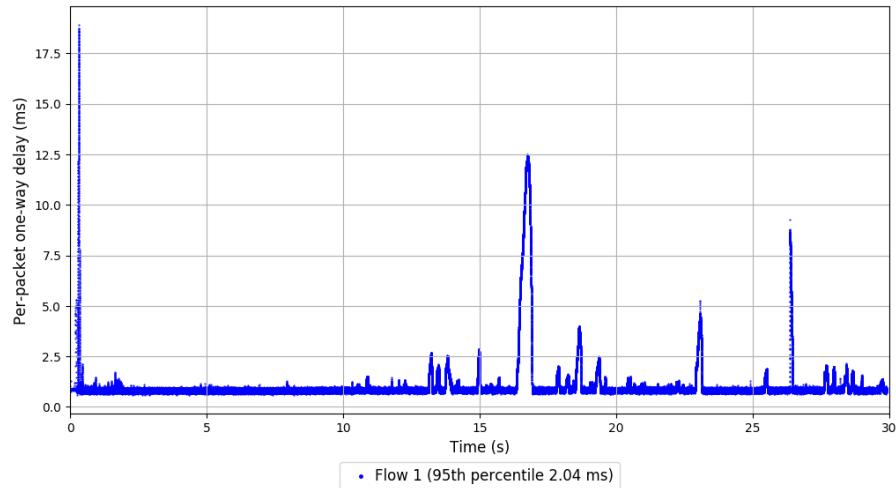
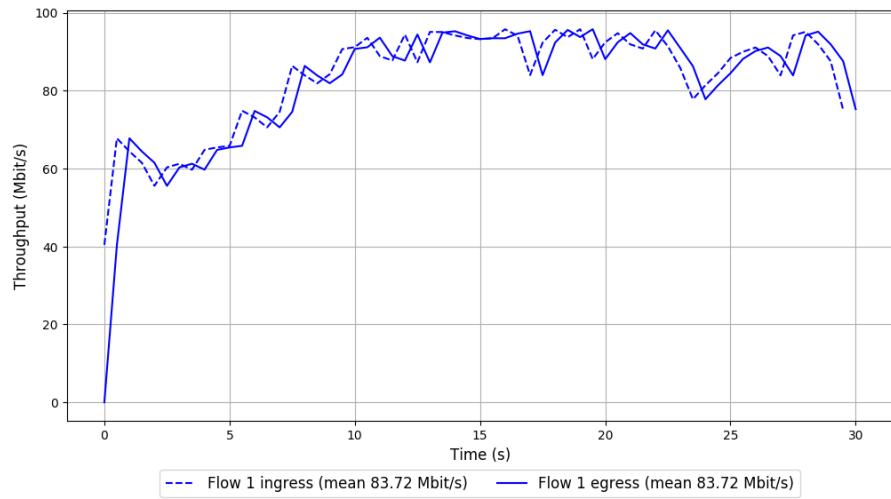


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-06-27 20:55:10
End at: 2019-06-27 20:55:40
Local clock offset: -5.432 ms
Remote clock offset: 0.494 ms

# Below is generated by plot.py at 2019-06-27 21:17:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.72 Mbit/s
95th percentile per-packet one-way delay: 2.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.72 Mbit/s
95th percentile per-packet one-way delay: 2.044 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Allegro — Data Link

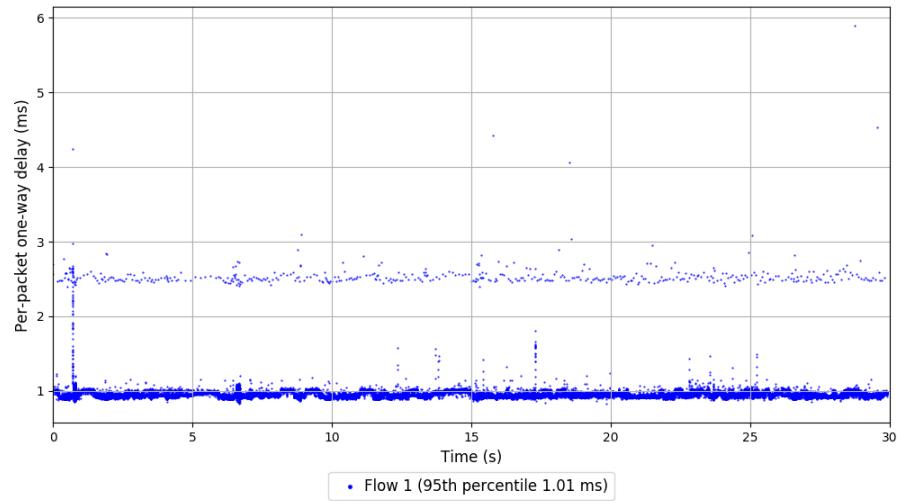
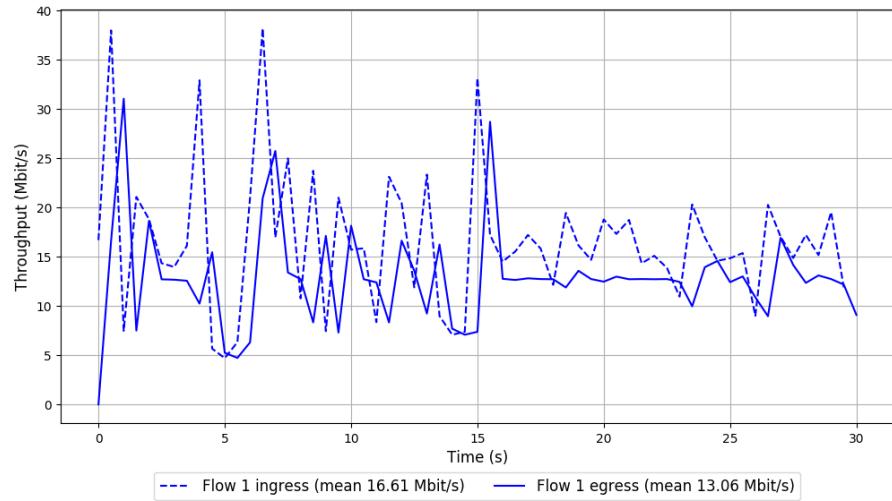


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-06-27 19:24:50
End at: 2019-06-27 19:25:20
Local clock offset: -5.23 ms
Remote clock offset: -0.295 ms

# Below is generated by plot.py at 2019-06-27 21:17:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 1.015 ms
Loss rate: 21.33%
-- Flow 1:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 1.015 ms
Loss rate: 21.33%
```

Run 1: Report of PCC-Expr — Data Link

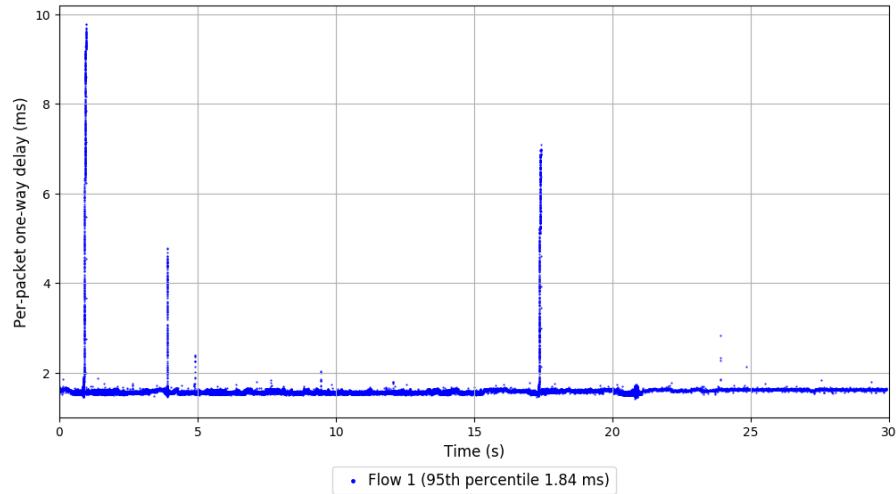
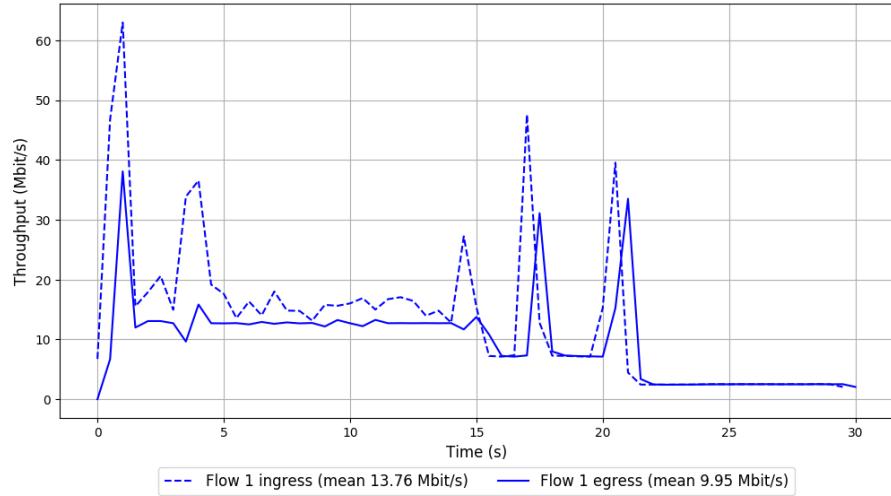


Run 2: Statistics of PCC-Expr

```
Start at: 2019-06-27 19:49:21
End at: 2019-06-27 19:49:51
Local clock offset: -5.567 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-06-27 21:17:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.95 Mbit/s
95th percentile per-packet one-way delay: 1.837 ms
Loss rate: 27.69%
-- Flow 1:
Average throughput: 9.95 Mbit/s
95th percentile per-packet one-way delay: 1.837 ms
Loss rate: 27.69%
```

Run 2: Report of PCC-Expr — Data Link

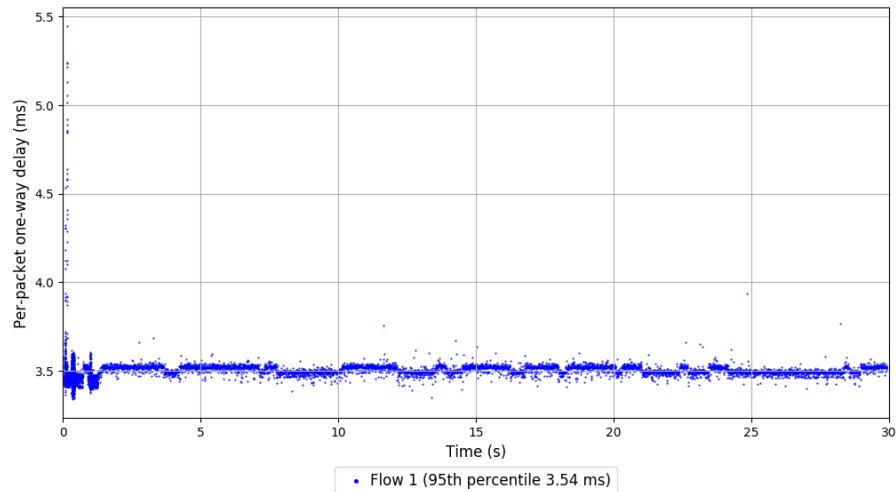
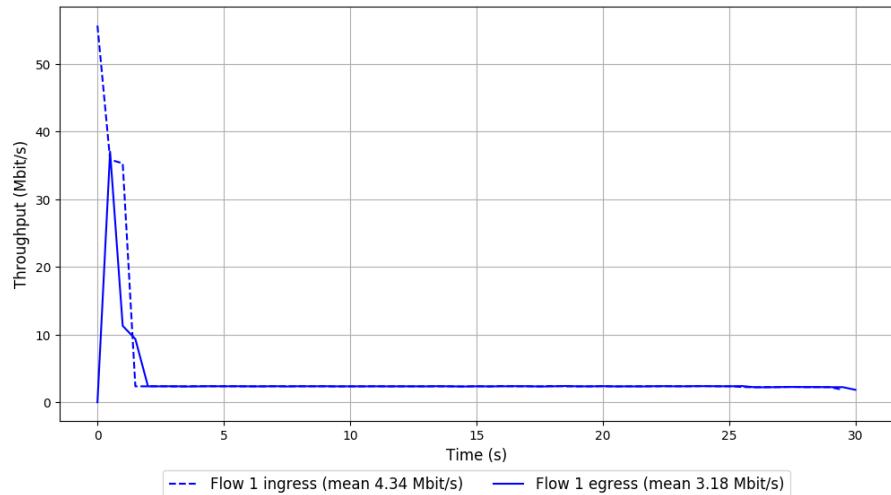


Run 3: Statistics of PCC-Expr

```
Start at: 2019-06-27 20:13:52
End at: 2019-06-27 20:14:22
Local clock offset: -5.741 ms
Remote clock offset: 0.372 ms

# Below is generated by plot.py at 2019-06-27 21:17:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 3.541 ms
Loss rate: 26.64%
-- Flow 1:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 3.541 ms
Loss rate: 26.64%
```

Run 3: Report of PCC-Expr — Data Link

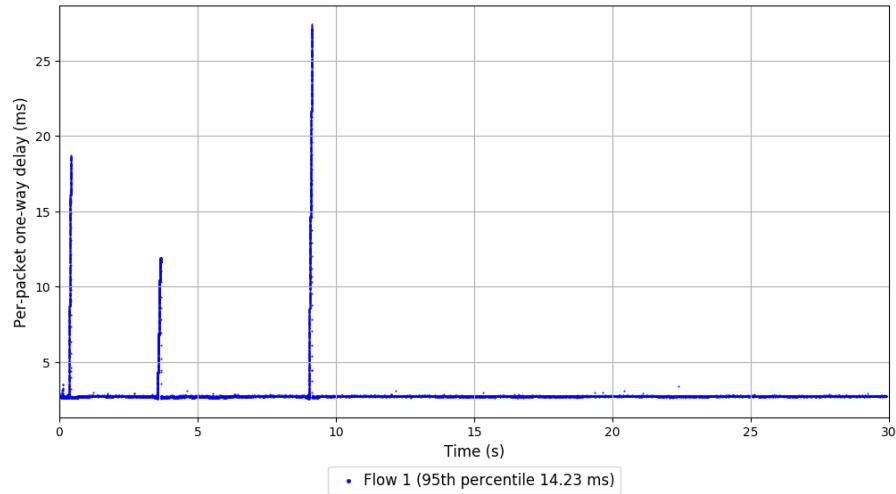
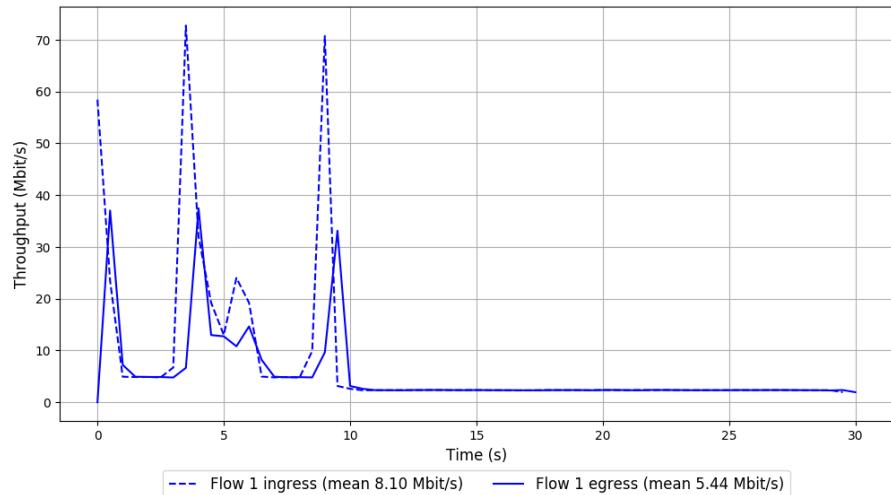


Run 4: Statistics of PCC-Expr

```
Start at: 2019-06-27 20:38:25
End at: 2019-06-27 20:38:55
Local clock offset: -5.866 ms
Remote clock offset: 0.524 ms

# Below is generated by plot.py at 2019-06-27 21:17:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.44 Mbit/s
95th percentile per-packet one-way delay: 14.234 ms
Loss rate: 32.81%
-- Flow 1:
Average throughput: 5.44 Mbit/s
95th percentile per-packet one-way delay: 14.234 ms
Loss rate: 32.81%
```

Run 4: Report of PCC-Expr — Data Link

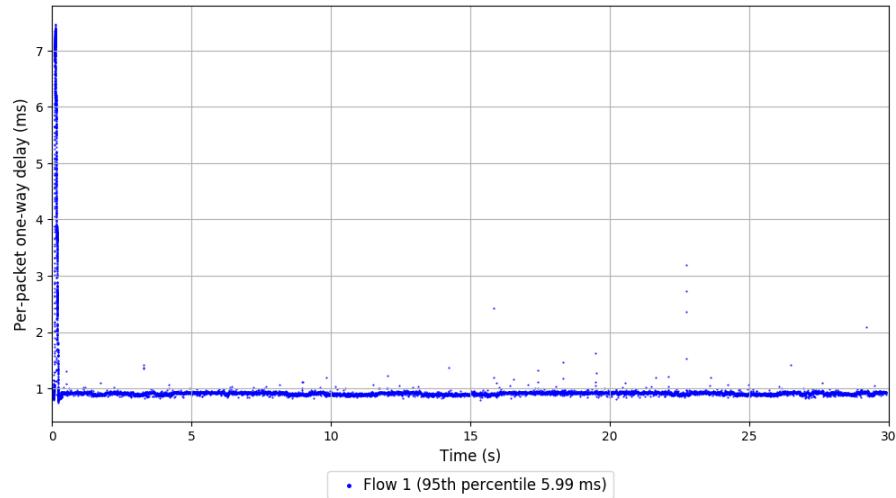
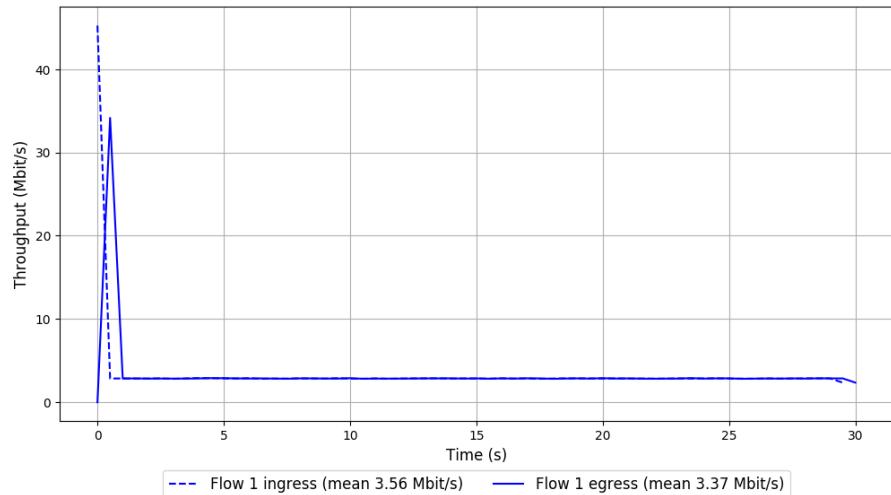


Run 5: Statistics of PCC-Expr

```
Start at: 2019-06-27 21:02:58
End at: 2019-06-27 21:03:28
Local clock offset: -5.293 ms
Remote clock offset: 0.551 ms

# Below is generated by plot.py at 2019-06-27 21:17:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 5.986 ms
Loss rate: 5.21%
-- Flow 1:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 5.986 ms
Loss rate: 5.21%
```

Run 5: Report of PCC-Expr — Data Link

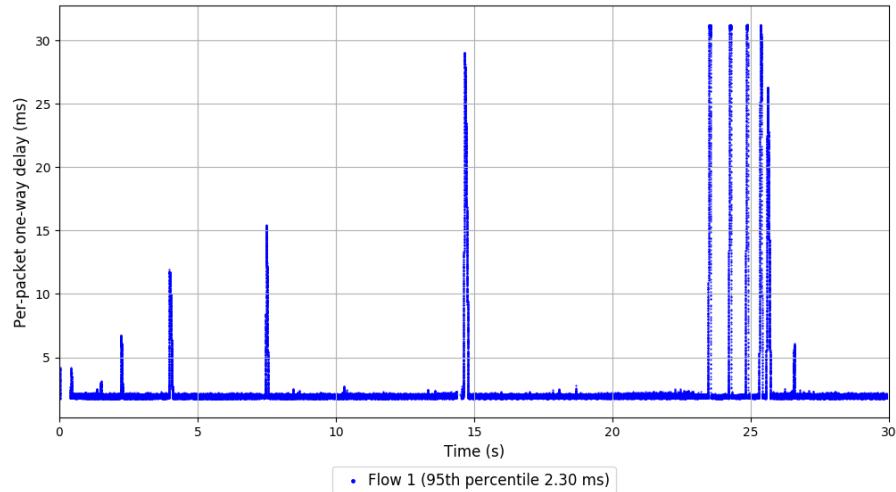
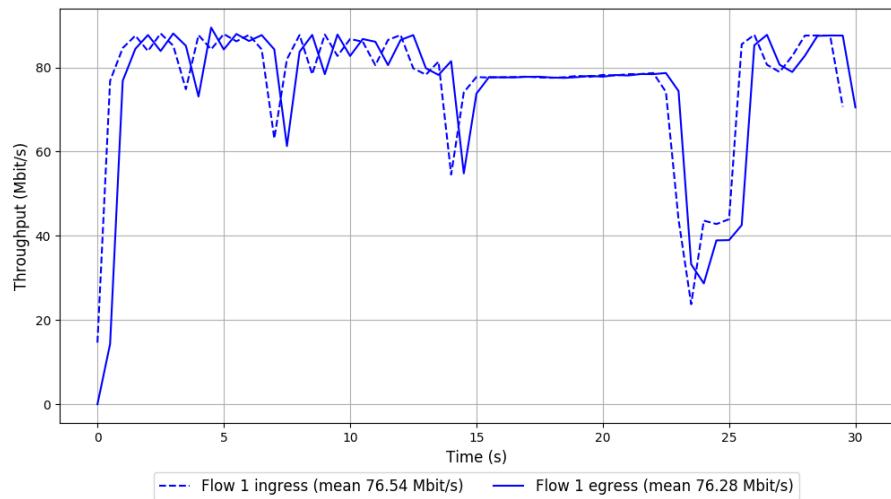


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-06-27 19:18:08
End at: 2019-06-27 19:18:38
Local clock offset: -6.389 ms
Remote clock offset: -0.437 ms

# Below is generated by plot.py at 2019-06-27 21:17:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.28 Mbit/s
95th percentile per-packet one-way delay: 2.298 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 76.28 Mbit/s
95th percentile per-packet one-way delay: 2.298 ms
Loss rate: 0.35%
```

Run 1: Report of QUIC Cubic — Data Link

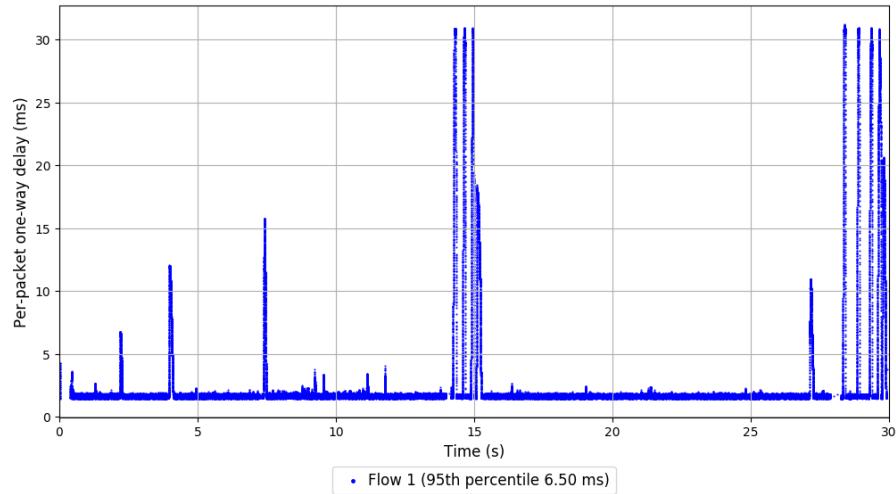
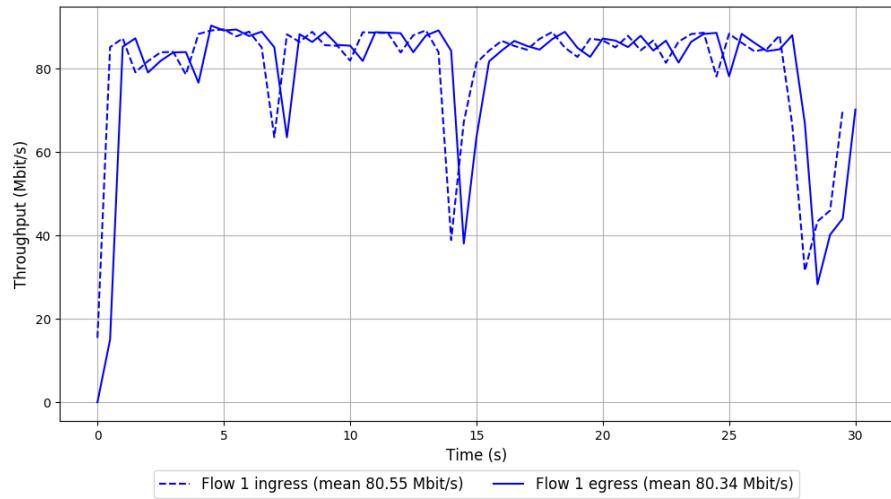


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-06-27 19:42:41
End at: 2019-06-27 19:43:11
Local clock offset: -5.602 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-06-27 21:18:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.34 Mbit/s
95th percentile per-packet one-way delay: 6.497 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 80.34 Mbit/s
95th percentile per-packet one-way delay: 6.497 ms
Loss rate: 0.26%
```

Run 2: Report of QUIC Cubic — Data Link

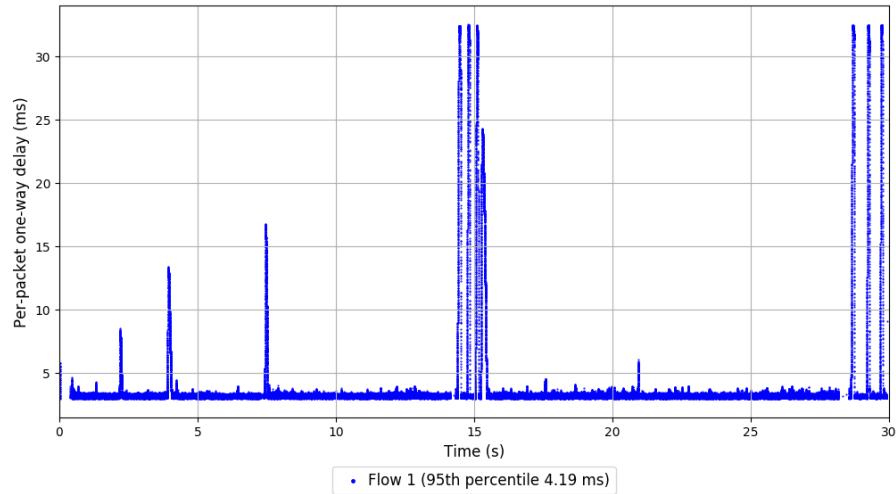
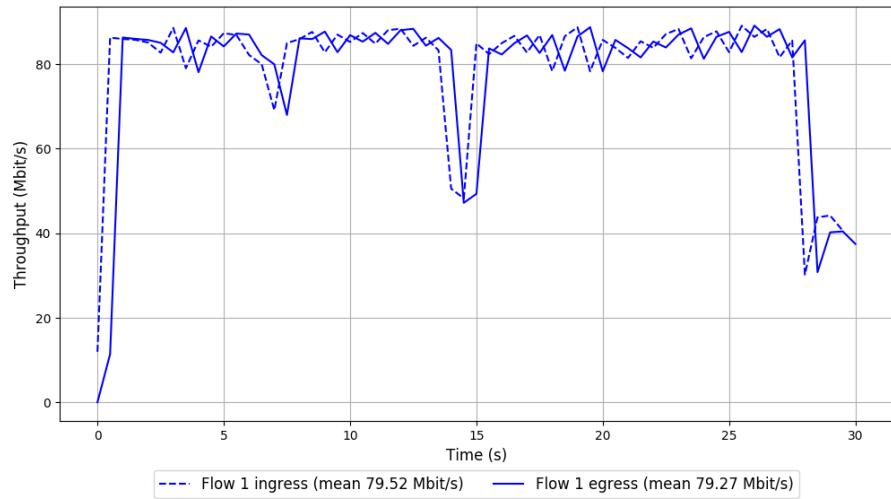


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-06-27 20:07:12
End at: 2019-06-27 20:07:42
Local clock offset: -5.561 ms
Remote clock offset: 0.183 ms

# Below is generated by plot.py at 2019-06-27 21:18:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.27 Mbit/s
95th percentile per-packet one-way delay: 4.187 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 79.27 Mbit/s
95th percentile per-packet one-way delay: 4.187 ms
Loss rate: 0.29%
```

Run 3: Report of QUIC Cubic — Data Link

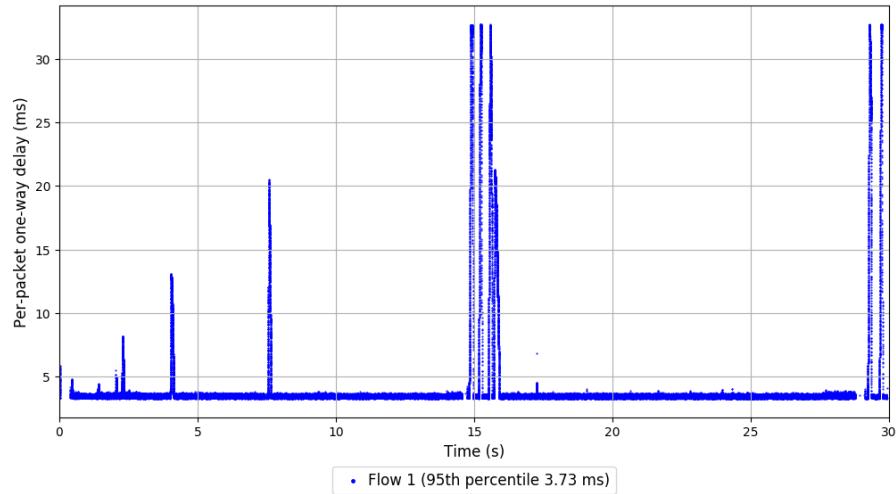
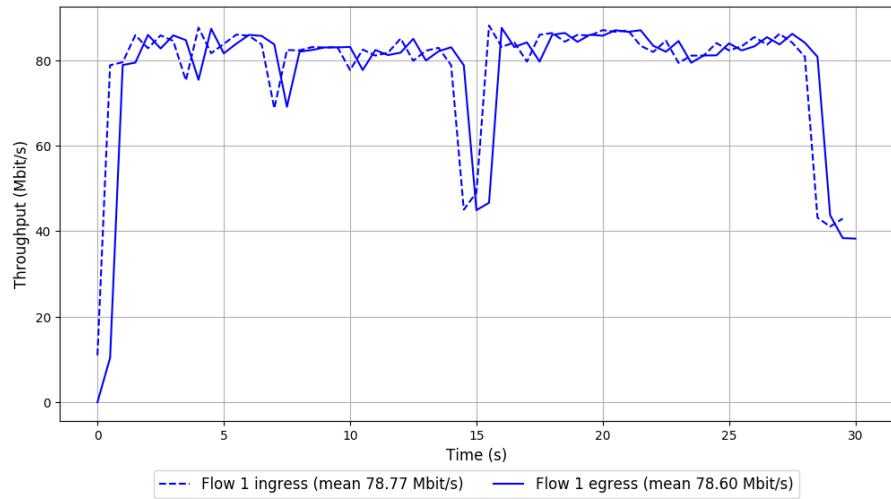


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-06-27 20:31:43
End at: 2019-06-27 20:32:13
Local clock offset: -6.477 ms
Remote clock offset: 0.456 ms

# Below is generated by plot.py at 2019-06-27 21:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.60 Mbit/s
95th percentile per-packet one-way delay: 3.731 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 78.60 Mbit/s
95th percentile per-packet one-way delay: 3.731 ms
Loss rate: 0.22%
```

Run 4: Report of QUIC Cubic — Data Link

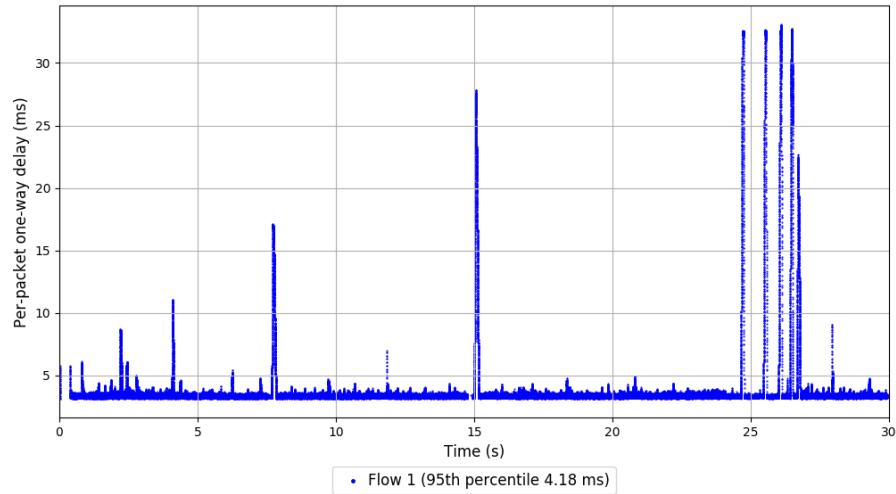
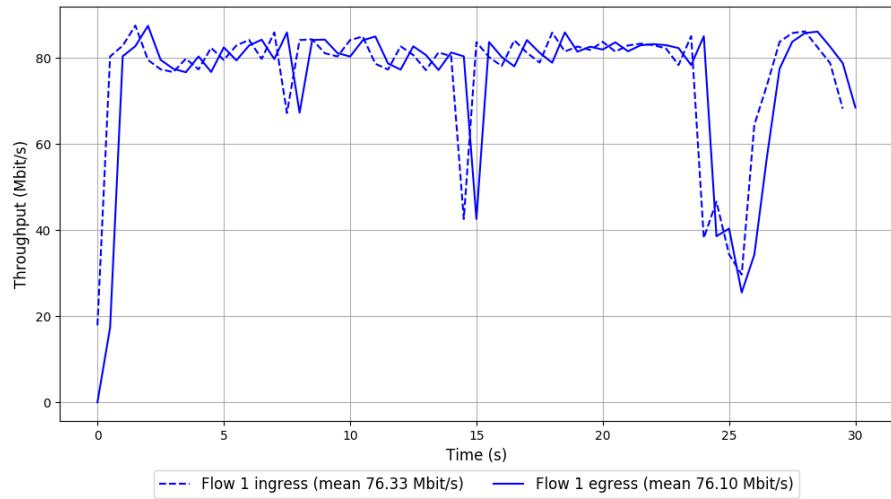


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-06-27 20:56:17
End at: 2019-06-27 20:56:47
Local clock offset: -6.258 ms
Remote clock offset: 0.549 ms

# Below is generated by plot.py at 2019-06-27 21:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.10 Mbit/s
95th percentile per-packet one-way delay: 4.181 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 76.10 Mbit/s
95th percentile per-packet one-way delay: 4.181 ms
Loss rate: 0.31%
```

Run 5: Report of QUIC Cubic — Data Link

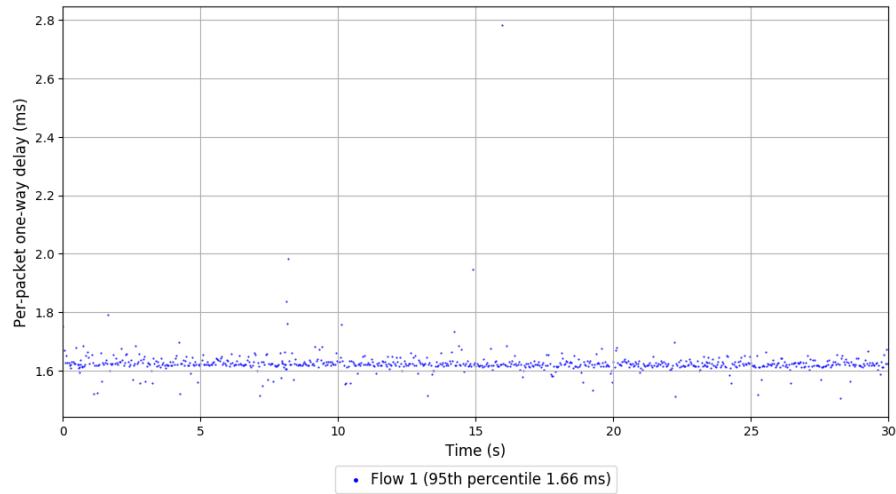
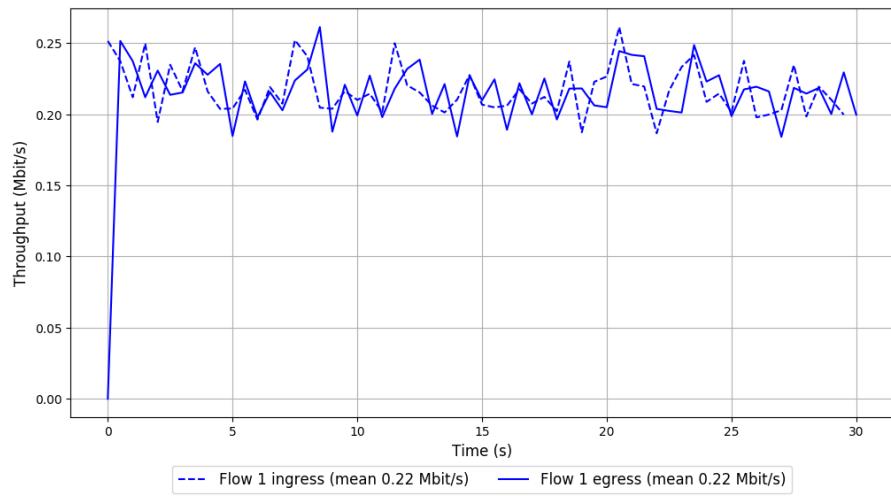


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-06-27 19:14:49
End at: 2019-06-27 19:15:19
Local clock offset: -6.195 ms
Remote clock offset: -0.558 ms

# Below is generated by plot.py at 2019-06-27 21:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.659 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.659 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

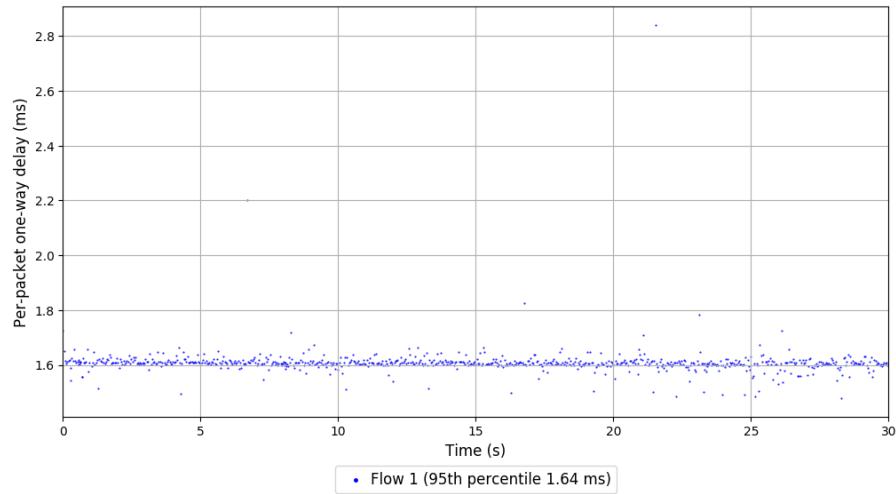
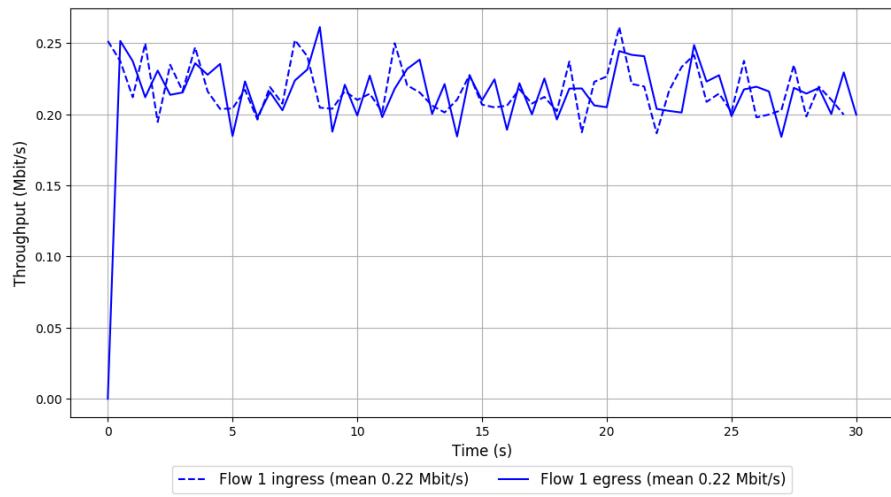


Run 2: Statistics of SCReAM

```
Start at: 2019-06-27 19:39:22
End at: 2019-06-27 19:39:52
Local clock offset: -5.652 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-06-27 21:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.641 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

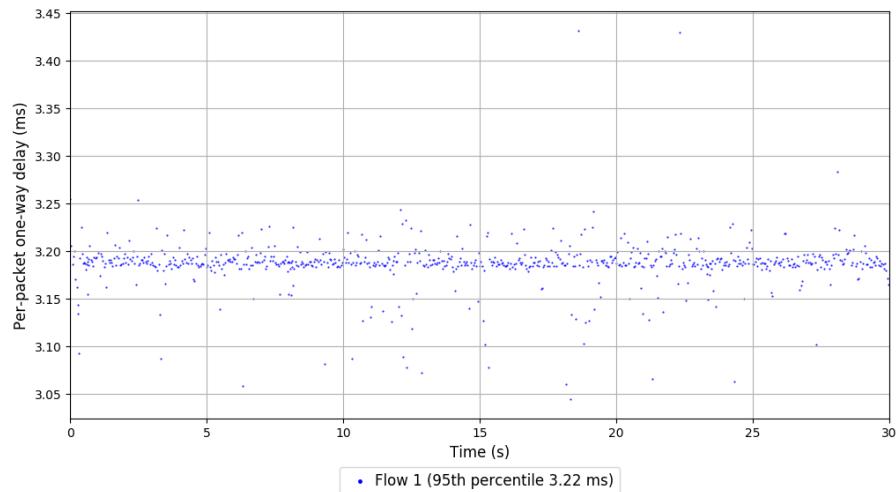
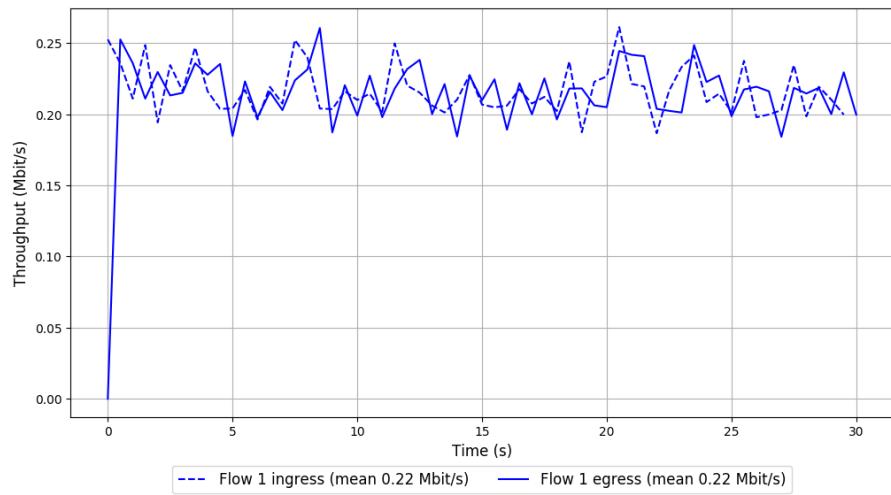


Run 3: Statistics of SCReAM

```
Start at: 2019-06-27 20:03:53
End at: 2019-06-27 20:04:23
Local clock offset: -5.577 ms
Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2019-06-27 21:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.218 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

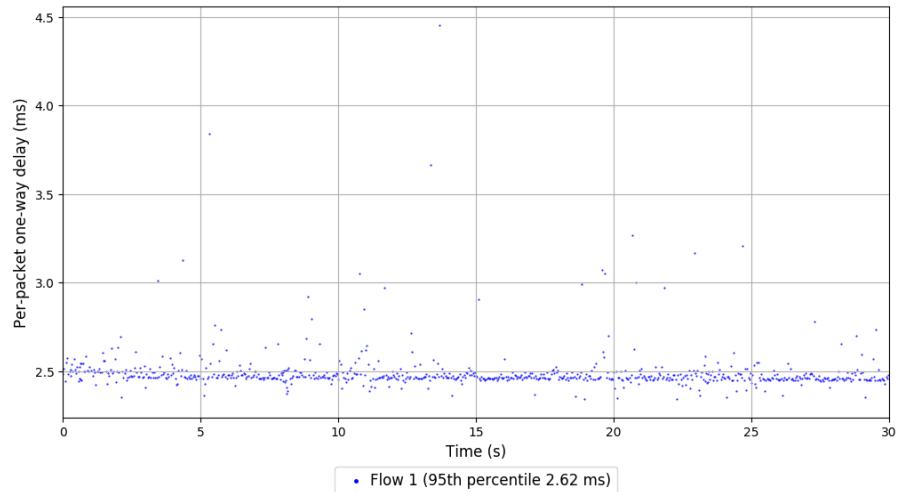
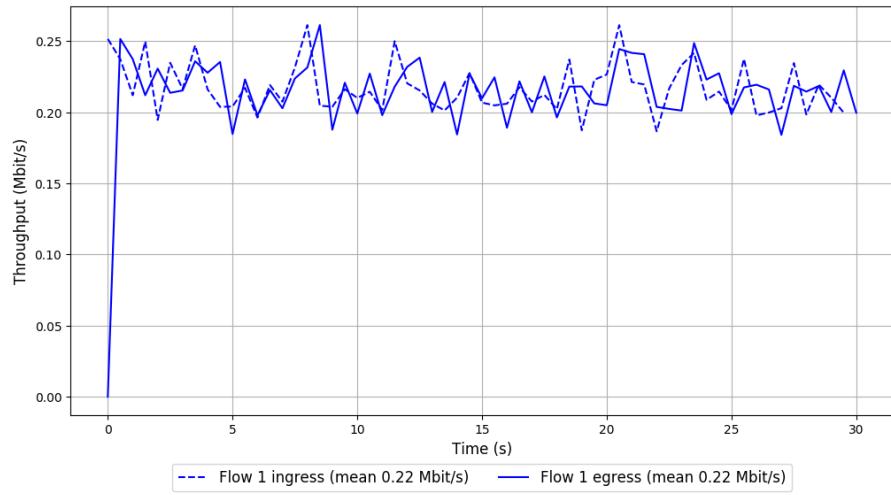


Run 4: Statistics of SCReAM

```
Start at: 2019-06-27 20:28:24
End at: 2019-06-27 20:28:54
Local clock offset: -5.345 ms
Remote clock offset: 0.487 ms

# Below is generated by plot.py at 2019-06-27 21:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.622 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.622 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

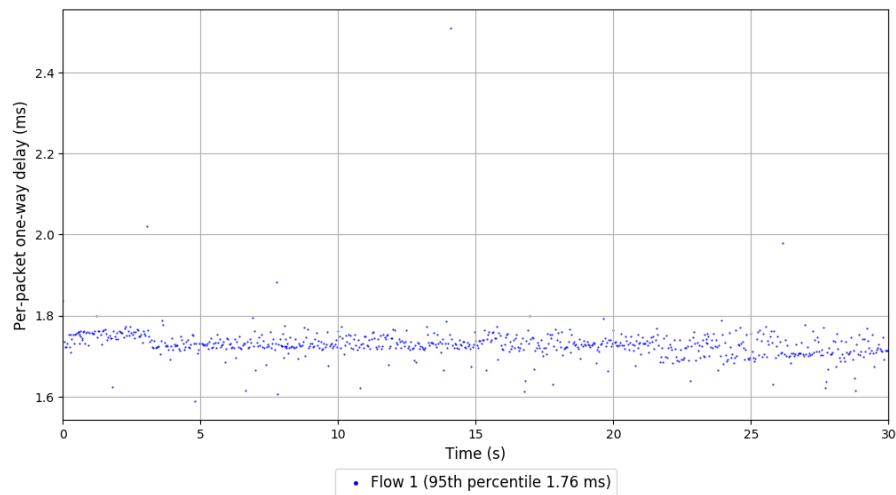
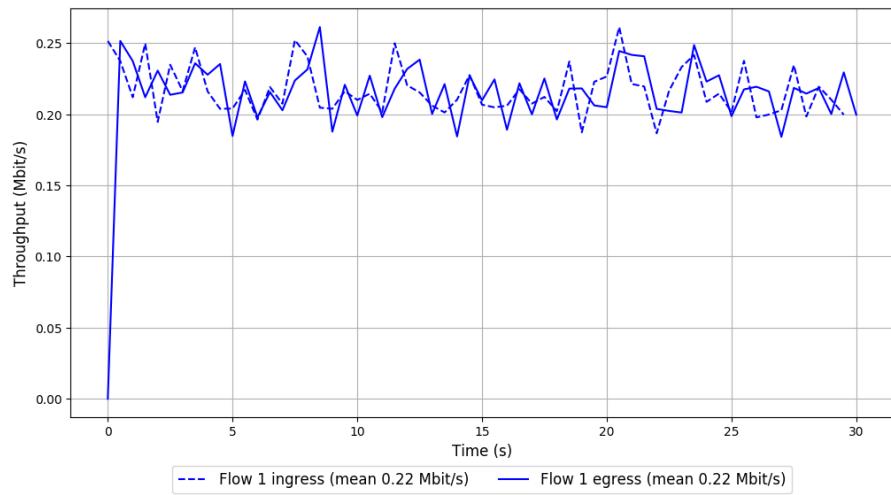


Run 5: Statistics of SCReAM

```
Start at: 2019-06-27 20:52:57
End at: 2019-06-27 20:53:27
Local clock offset: -6.345 ms
Remote clock offset: 0.515 ms

# Below is generated by plot.py at 2019-06-27 21:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.764 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

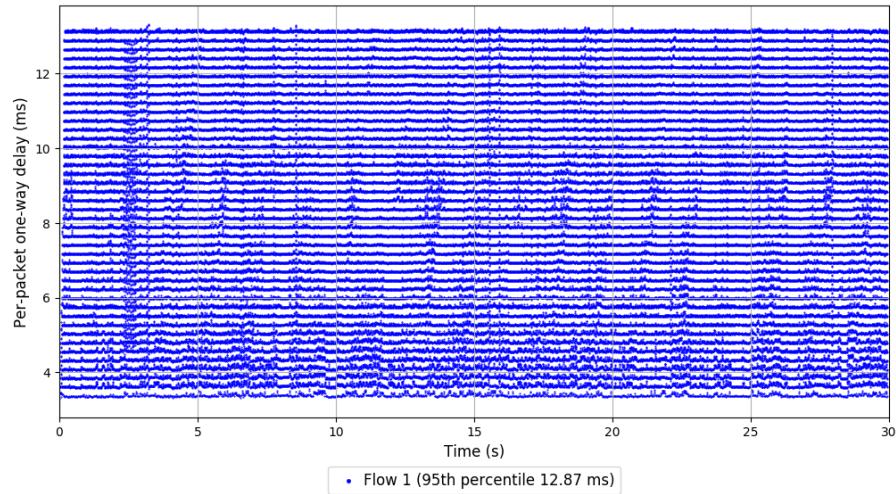
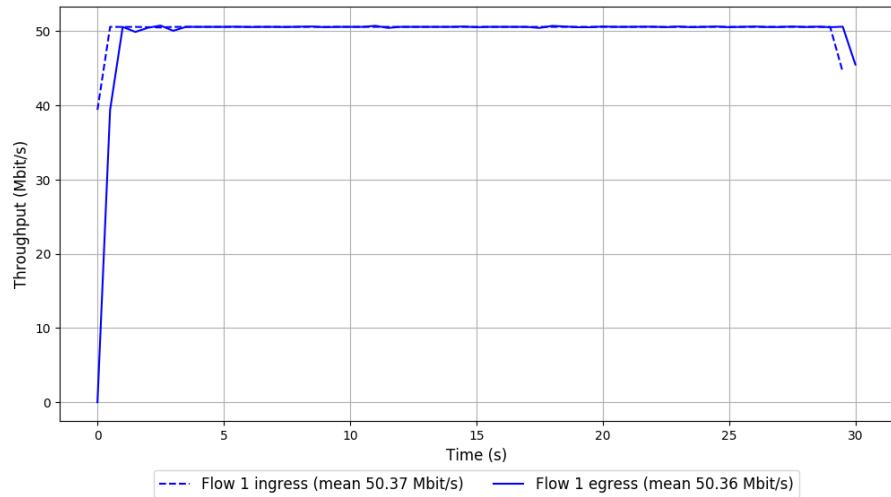


Run 1: Statistics of Sprout

```
Start at: 2019-06-27 19:20:24
End at: 2019-06-27 19:20:54
Local clock offset: -6.313 ms
Remote clock offset: -0.437 ms

# Below is generated by plot.py at 2019-06-27 21:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 12.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 12.870 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

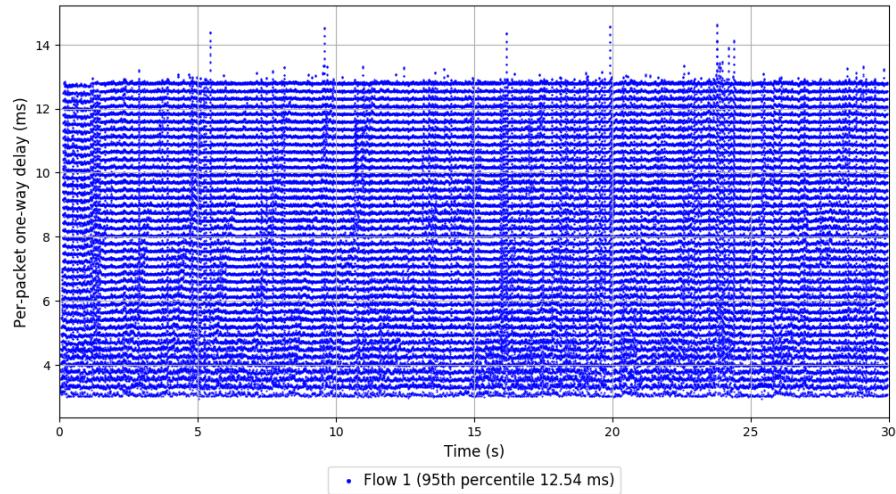
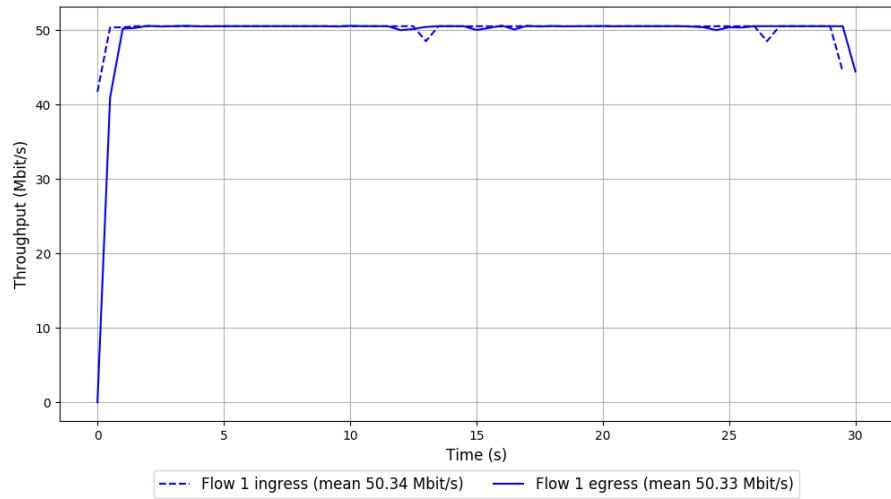


Run 2: Statistics of Sprout

```
Start at: 2019-06-27 19:44:57
End at: 2019-06-27 19:45:27
Local clock offset: -5.593 ms
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2019-06-27 21:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 12.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 12.544 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

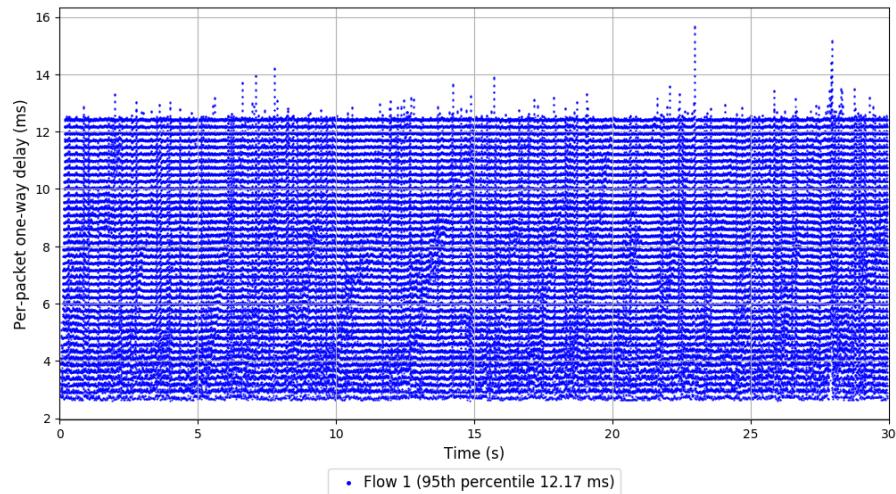
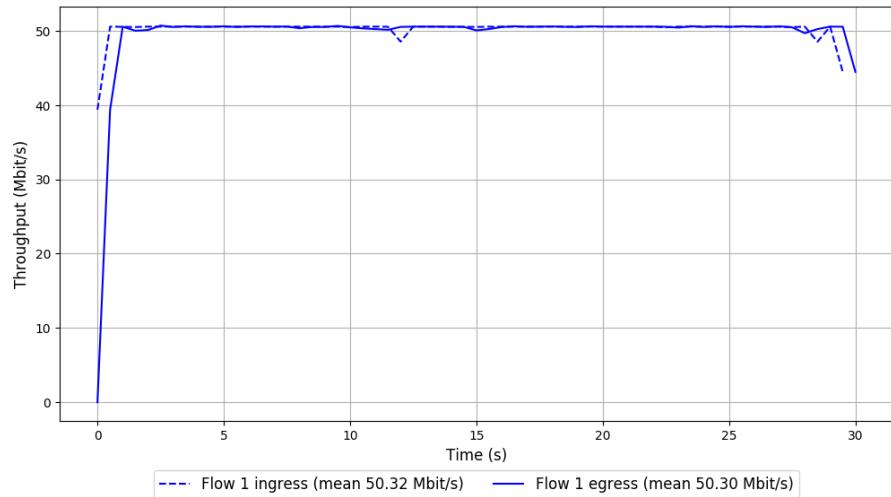


Run 3: Statistics of Sprout

```
Start at: 2019-06-27 20:09:28
End at: 2019-06-27 20:09:58
Local clock offset: -5.051 ms
Remote clock offset: 0.277 ms

# Below is generated by plot.py at 2019-06-27 21:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 12.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 12.173 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

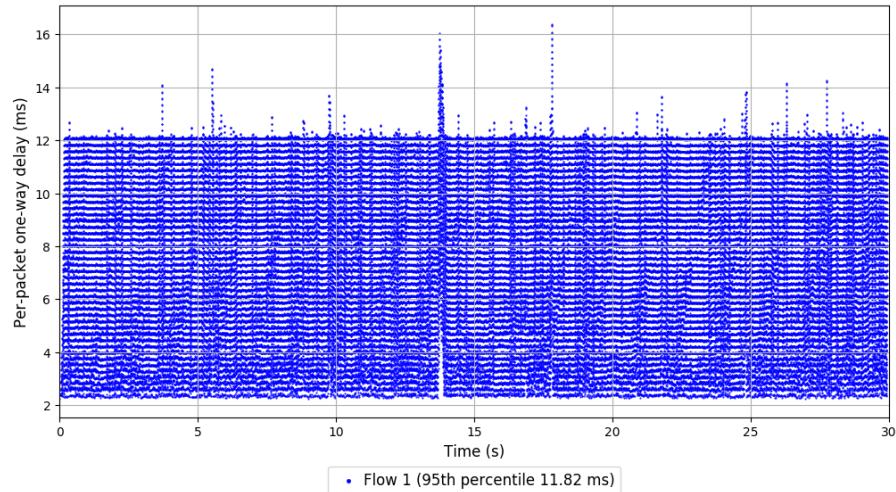
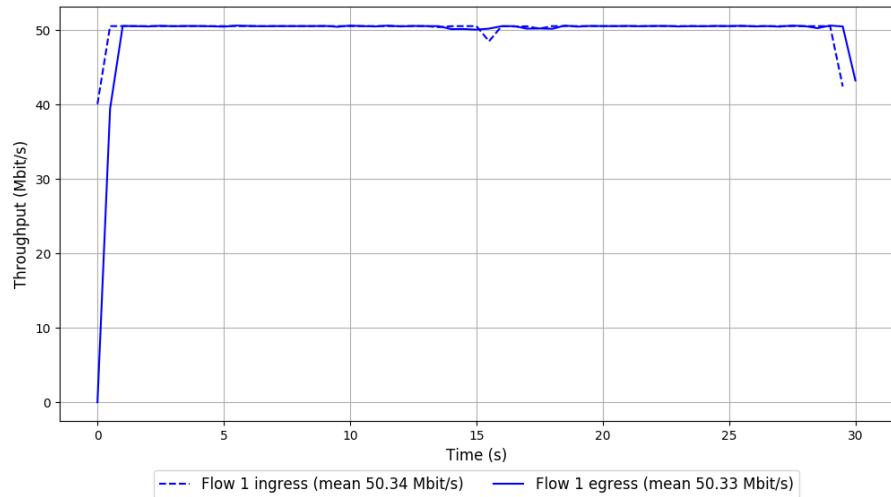


Run 4: Statistics of Sprout

```
Start at: 2019-06-27 20:33:59
End at: 2019-06-27 20:34:29
Local clock offset: -5.498 ms
Remote clock offset: 0.424 ms

# Below is generated by plot.py at 2019-06-27 21:18:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 11.825 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 11.825 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

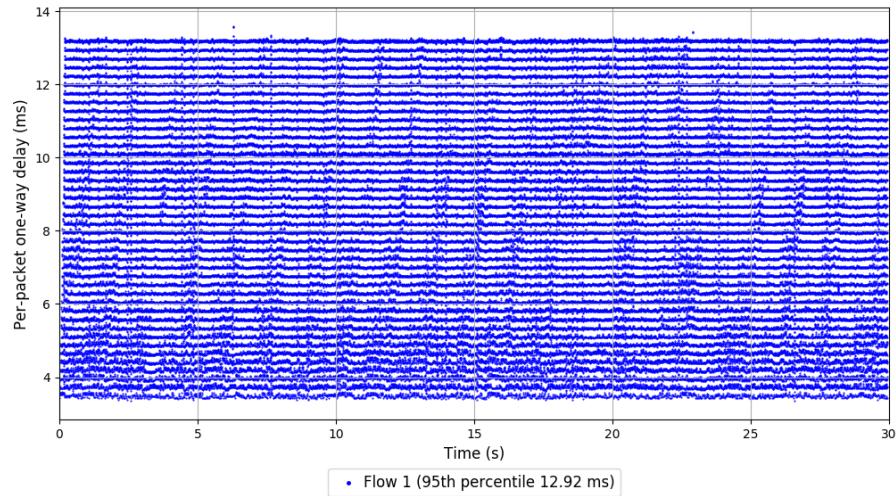
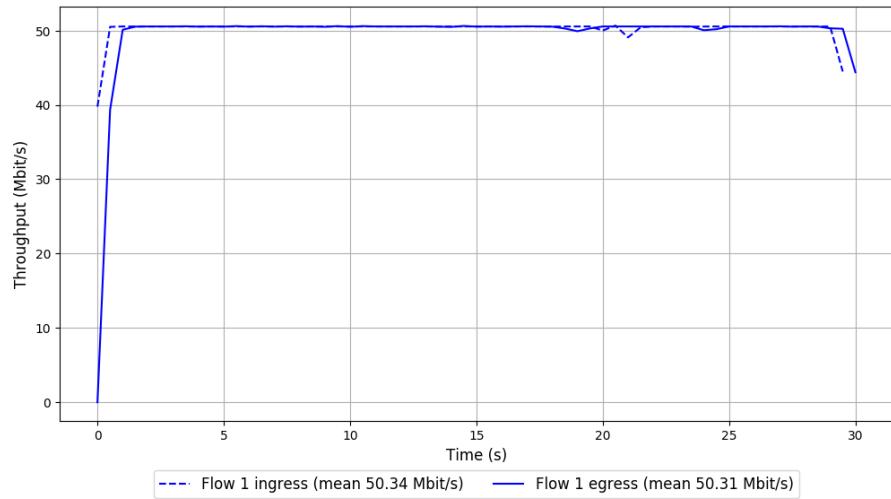


Run 5: Statistics of Sprout

```
Start at: 2019-06-27 20:58:32
End at: 2019-06-27 20:59:02
Local clock offset: -6.431 ms
Remote clock offset: 0.531 ms

# Below is generated by plot.py at 2019-06-27 21:18:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 12.919 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 12.919 ms
Loss rate: 0.05%
```

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

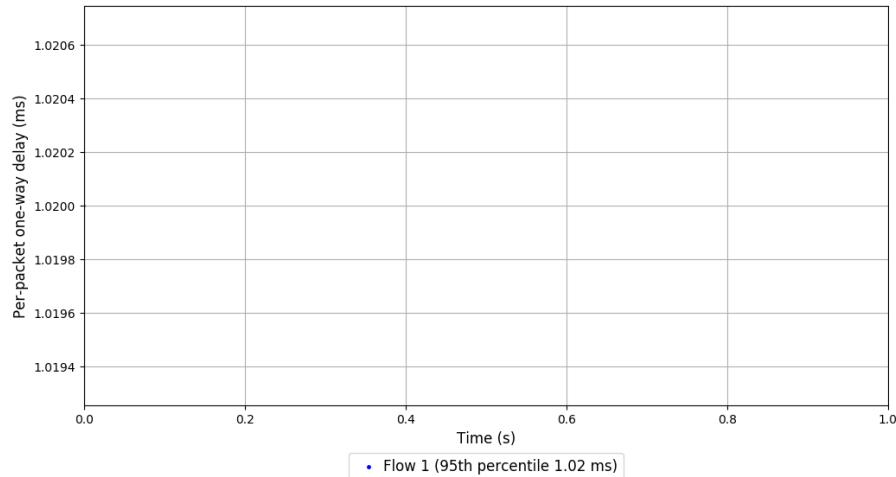
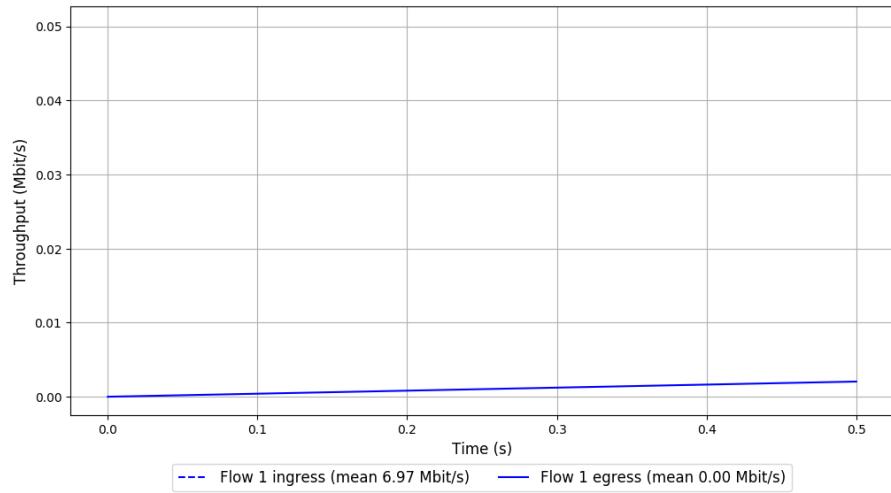
Start at: 2019-06-27 19:23:45

End at: 2019-06-27 19:24:15

Local clock offset: -5.202 ms

Remote clock offset: -0.324 ms

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



Run 2: Statistics of TaoVA-100x

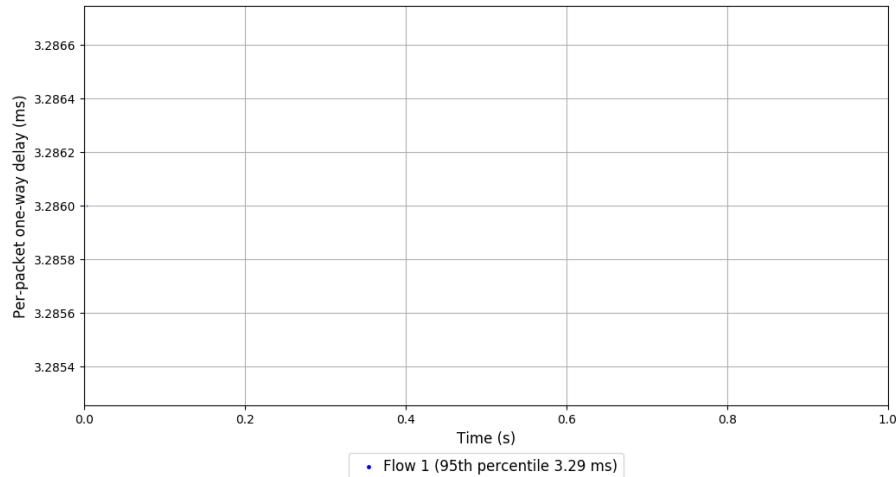
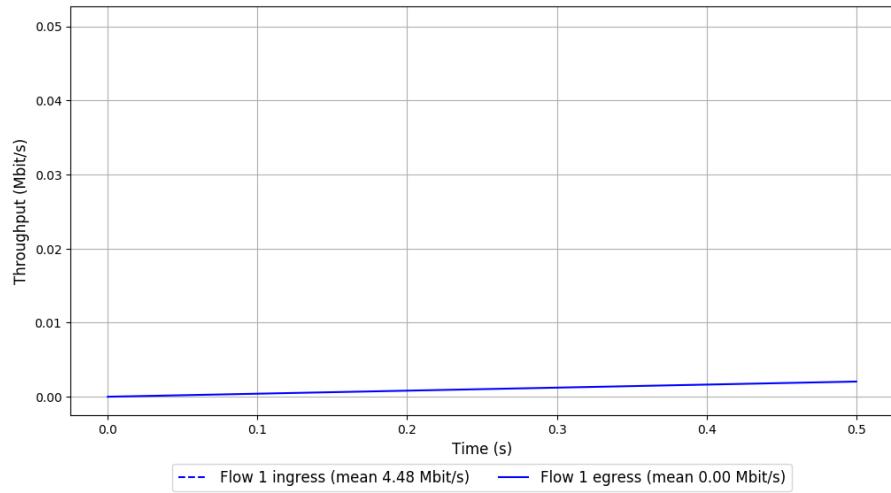
Start at: 2019-06-27 19:48:16

End at: 2019-06-27 19:48:46

Local clock offset: -5.54 ms

Remote clock offset: 0.034 ms

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



Run 3: Statistics of TaoVA-100x

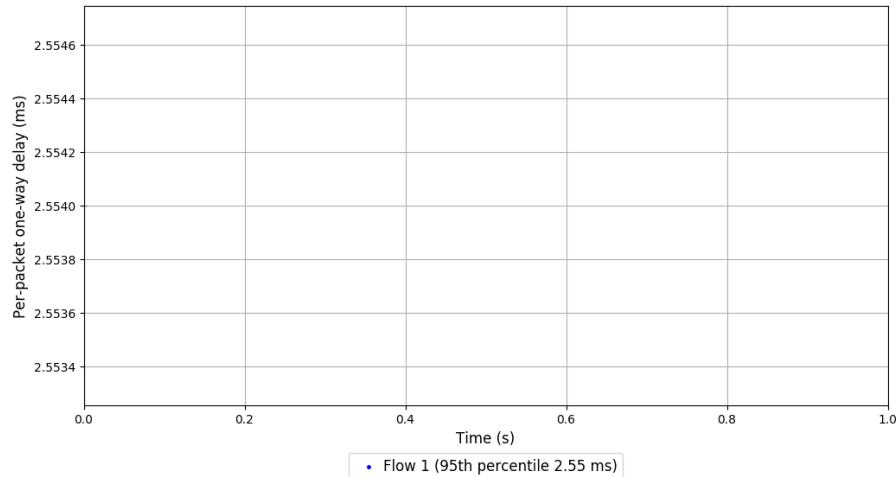
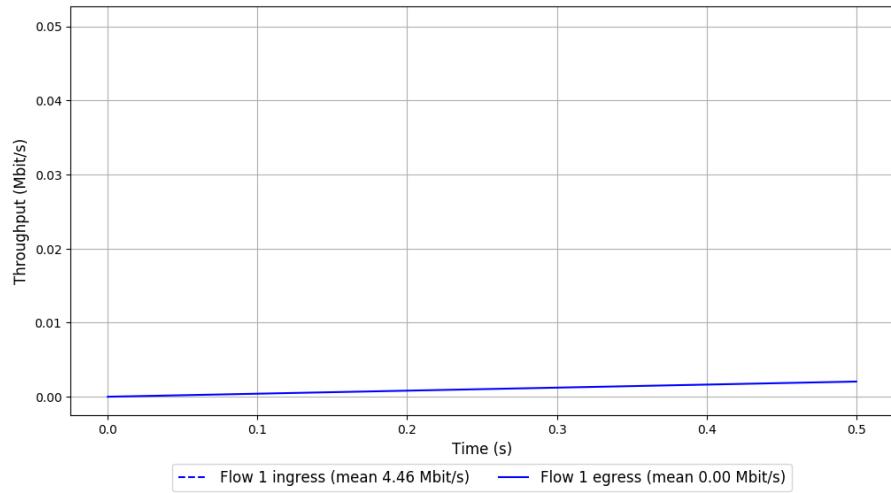
Start at: 2019-06-27 20:12:48

End at: 2019-06-27 20:13:18

Local clock offset: -4.737 ms

Remote clock offset: 0.354 ms

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



Run 4: Statistics of TaoVA-100x

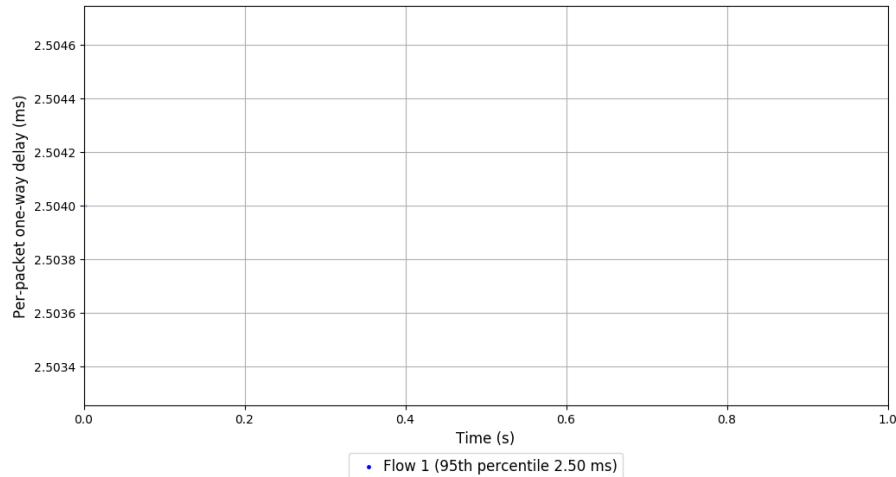
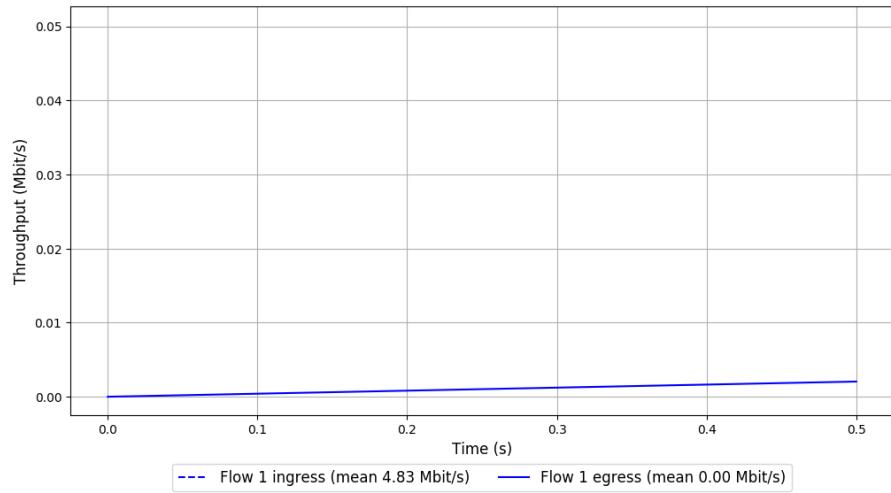
Start at: 2019-06-27 20:37:20

End at: 2019-06-27 20:37:50

Local clock offset: -5.579 ms

Remote clock offset: 0.449 ms

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



Run 5: Statistics of TaoVA-100x

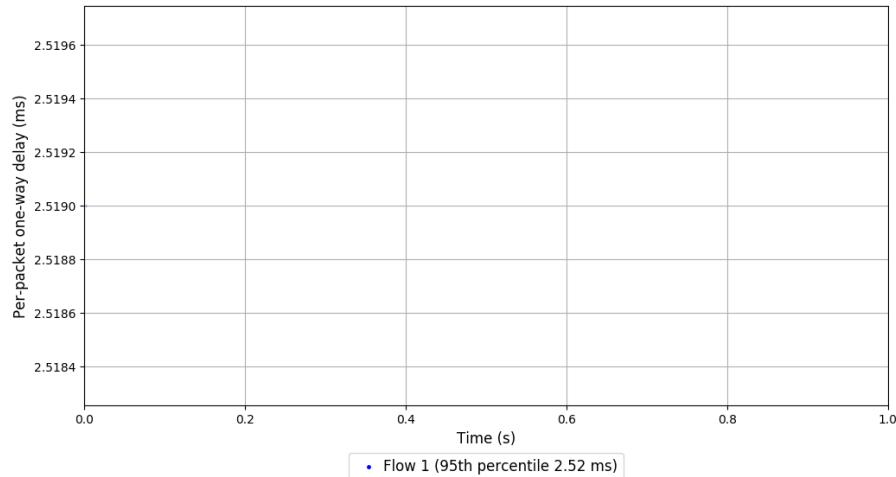
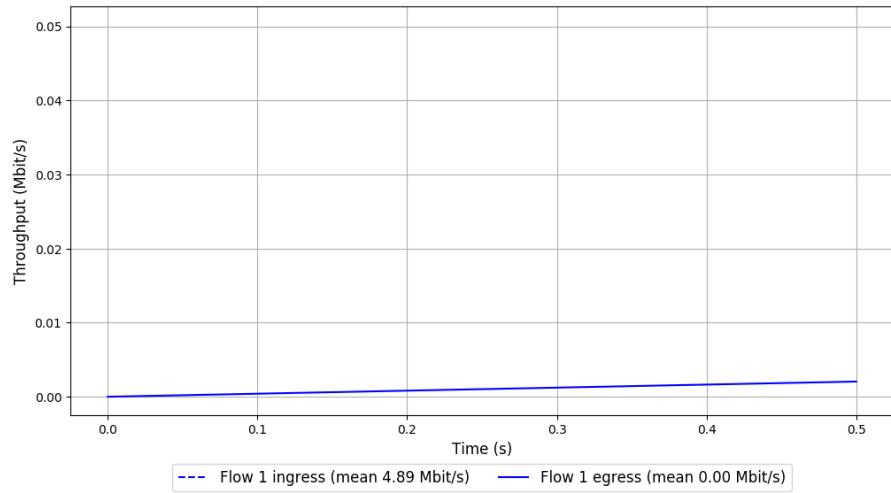
Start at: 2019-06-27 21:01:54

End at: 2019-06-27 21:02:24

Local clock offset: -5.369 ms

Remote clock offset: 0.505 ms

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

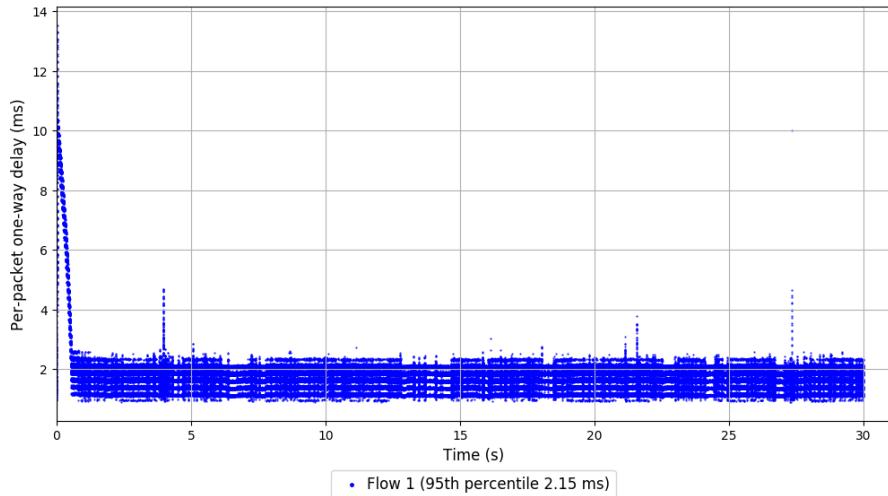
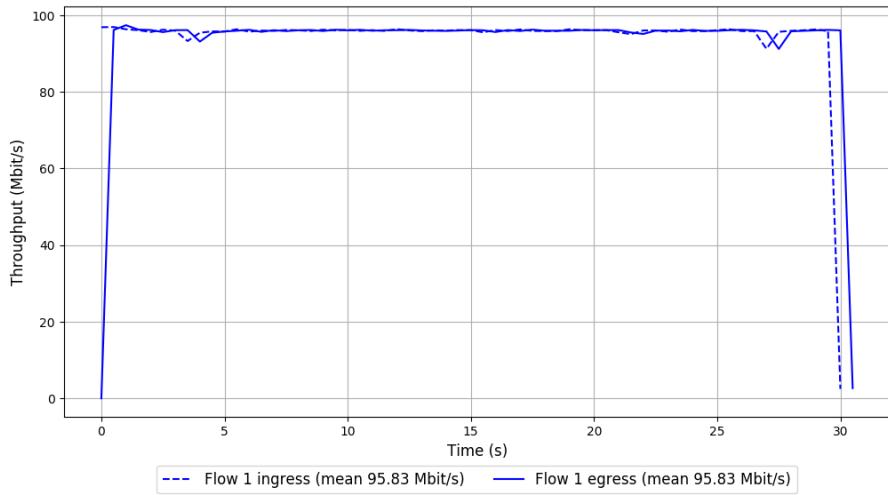


Run 1: Statistics of TCP Vegas

```
Start at: 2019-06-27 19:15:53
End at: 2019-06-27 19:16:23
Local clock offset: -5.622 ms
Remote clock offset: -0.528 ms

# Below is generated by plot.py at 2019-06-27 21:19:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 2.151 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 2.151 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

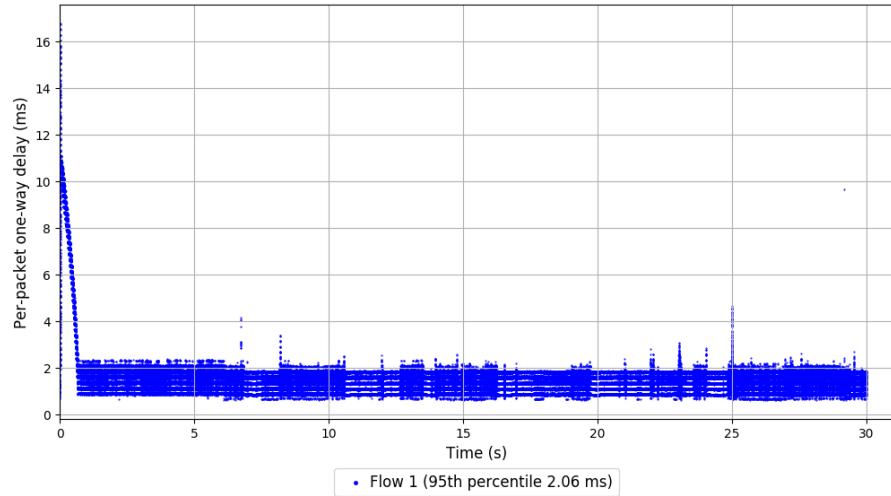
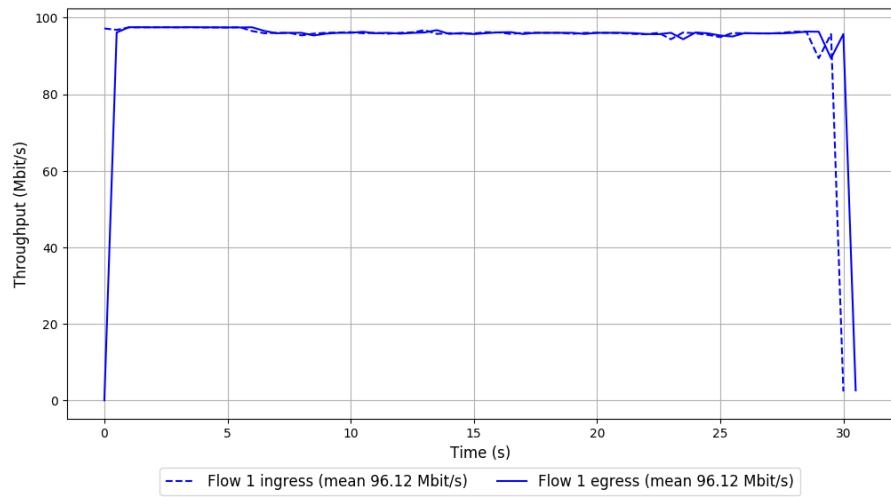


Run 2: Statistics of TCP Vegas

```
Start at: 2019-06-27 19:40:26
End at: 2019-06-27 19:40:56
Local clock offset: -4.833 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-06-27 21:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 2.061 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 2.061 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

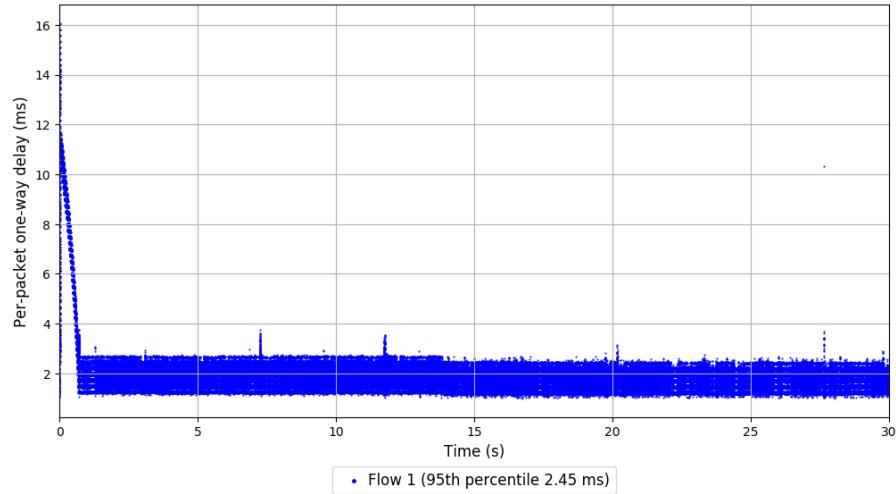
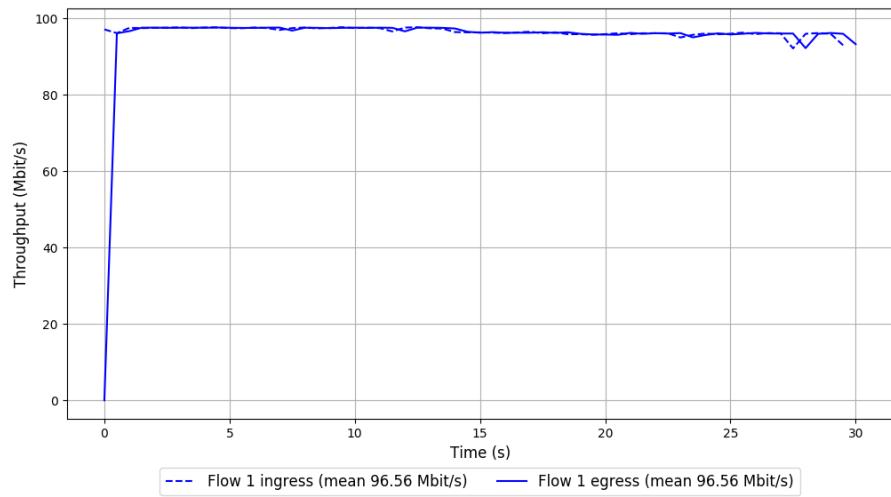


Run 3: Statistics of TCP Vegas

```
Start at: 2019-06-27 20:04:57
End at: 2019-06-27 20:05:27
Local clock offset: -5.084 ms
Remote clock offset: 0.218 ms

# Below is generated by plot.py at 2019-06-27 21:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 2.454 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 2.454 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

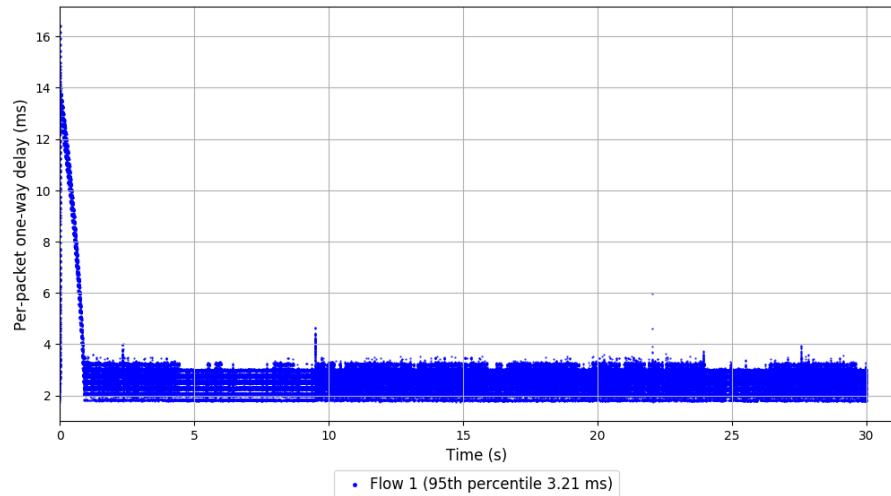
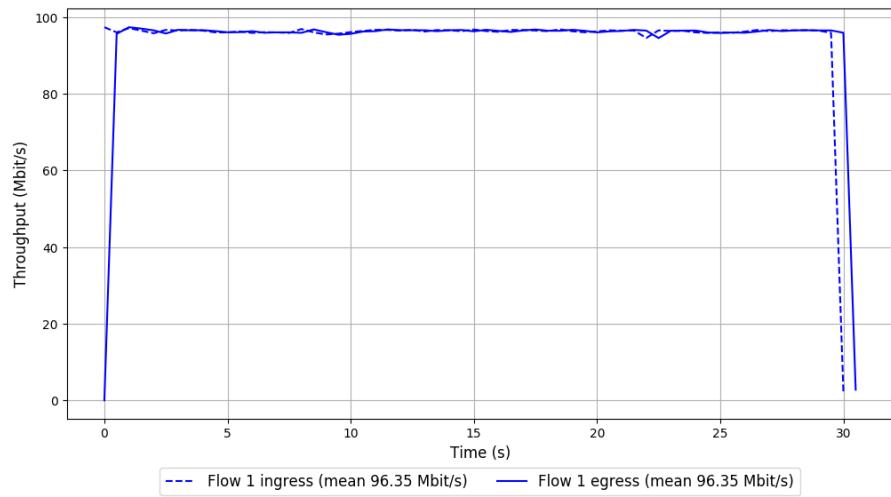


Run 4: Statistics of TCP Vegas

```
Start at: 2019-06-27 20:29:28
End at: 2019-06-27 20:29:58
Local clock offset: -6.384 ms
Remote clock offset: 0.482 ms

# Below is generated by plot.py at 2019-06-27 21:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 3.205 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 3.205 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

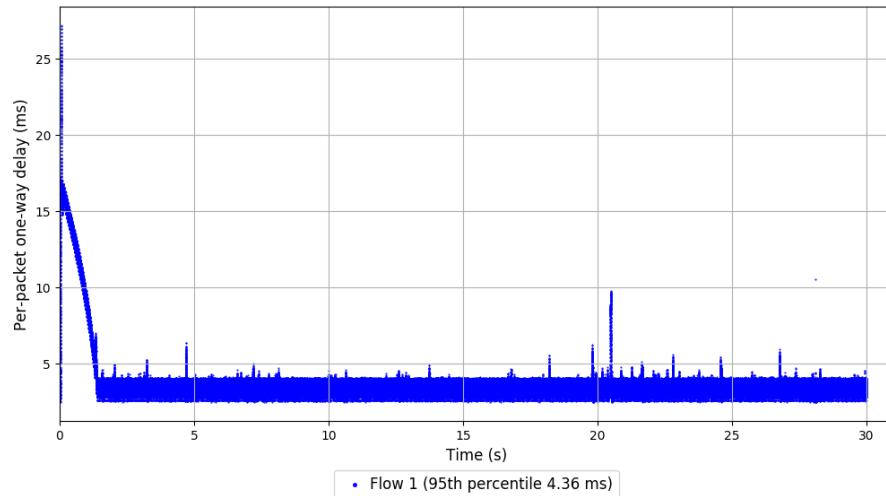
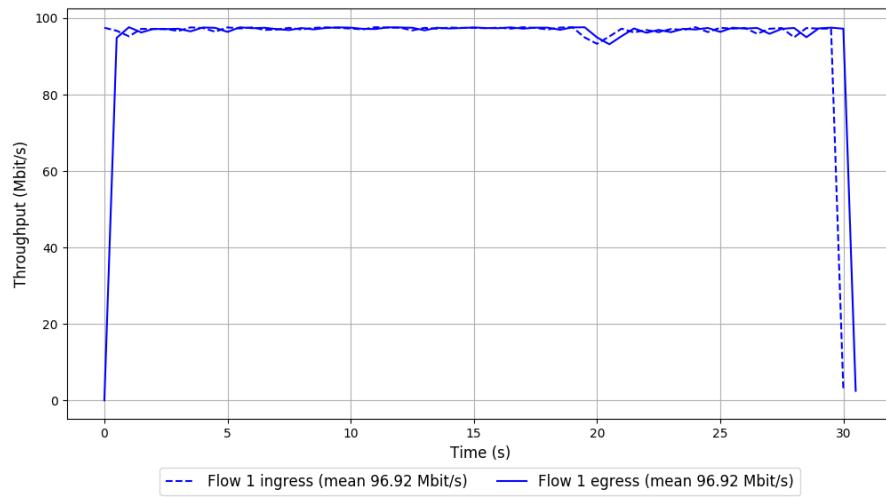


Run 5: Statistics of TCP Vegas

```
Start at: 2019-06-27 20:54:02
End at: 2019-06-27 20:54:32
Local clock offset: -5.646 ms
Remote clock offset: 0.497 ms

# Below is generated by plot.py at 2019-06-27 21:19:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.92 Mbit/s
95th percentile per-packet one-way delay: 4.358 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.92 Mbit/s
95th percentile per-packet one-way delay: 4.358 ms
Loss rate: 0.01%
```

Run 5: Report of TCP Vegas — Data Link

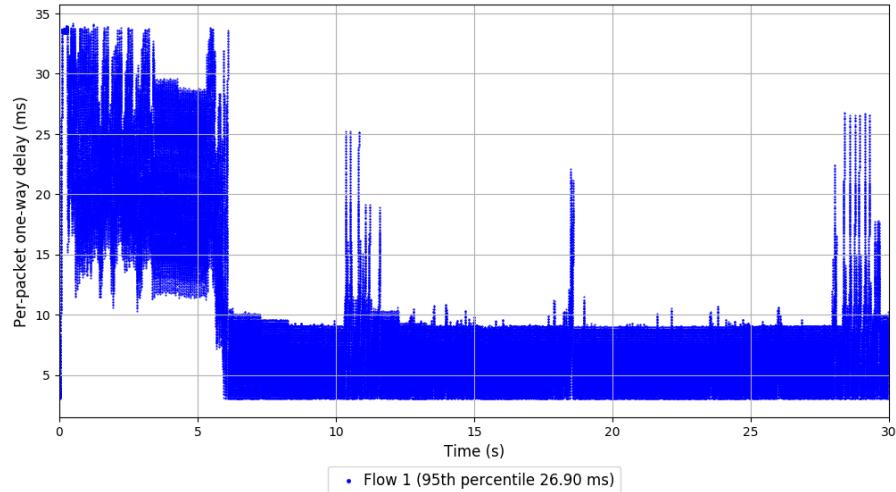
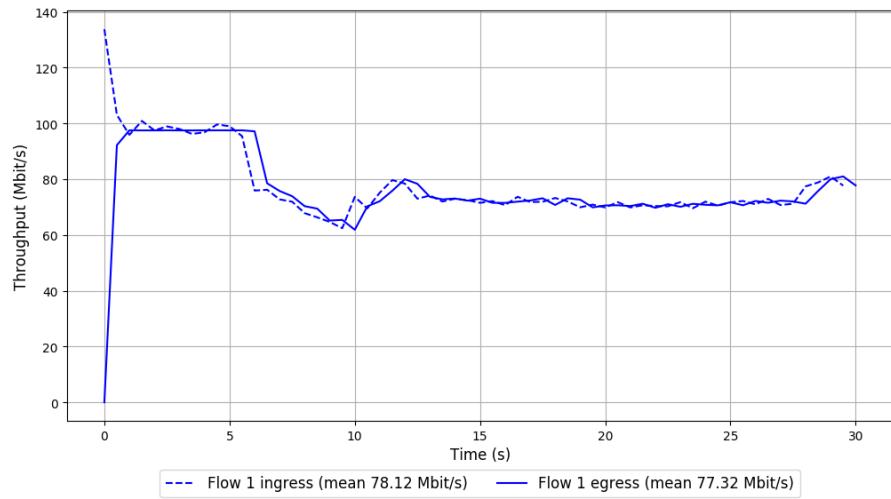


Run 1: Statistics of Verus

```
Start at: 2019-06-27 19:22:37
End at: 2019-06-27 19:23:07
Local clock offset: -6.092 ms
Remote clock offset: -0.499 ms

# Below is generated by plot.py at 2019-06-27 21:19:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.32 Mbit/s
95th percentile per-packet one-way delay: 26.899 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 77.32 Mbit/s
95th percentile per-packet one-way delay: 26.899 ms
Loss rate: 1.02%
```

Run 1: Report of Verus — Data Link

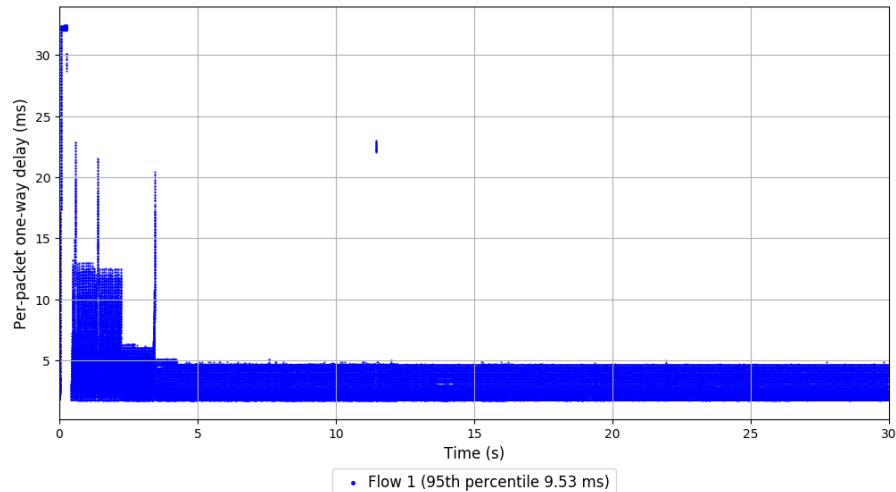
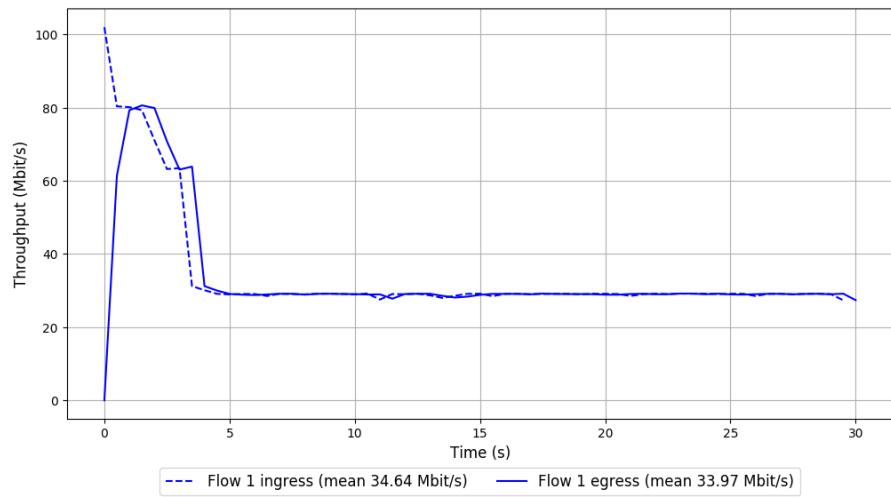


Run 2: Statistics of Verus

```
Start at: 2019-06-27 19:47:10
End at: 2019-06-27 19:47:40
Local clock offset: -5.75 ms
Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2019-06-27 21:19:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.97 Mbit/s
95th percentile per-packet one-way delay: 9.533 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 33.97 Mbit/s
95th percentile per-packet one-way delay: 9.533 ms
Loss rate: 1.95%
```

Run 2: Report of Verus — Data Link

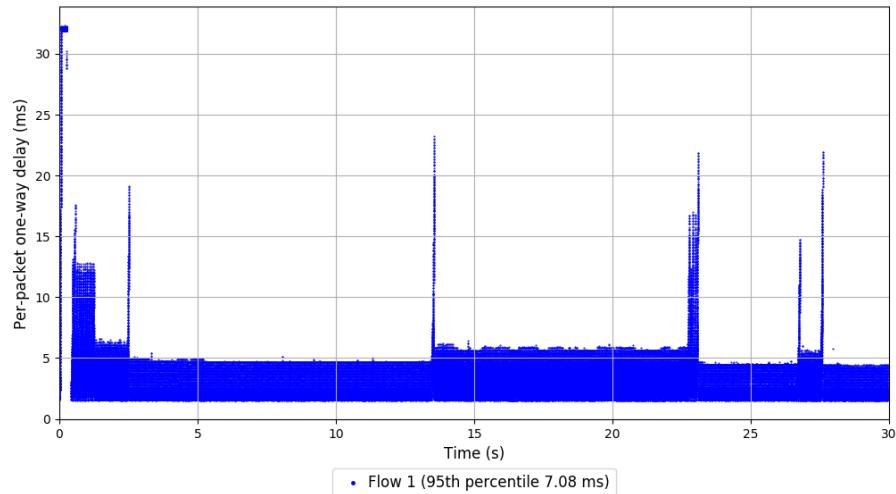
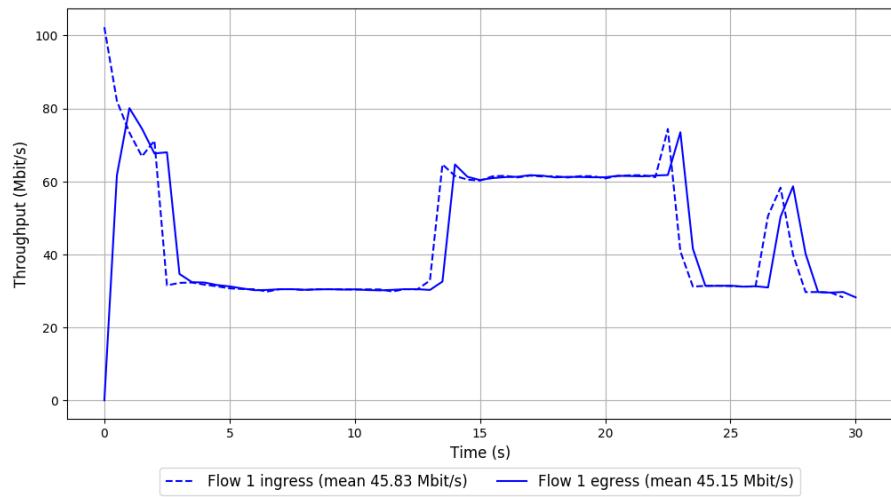


Run 3: Statistics of Verus

```
Start at: 2019-06-27 20:11:41
End at: 2019-06-27 20:12:11
Local clock offset: -5.518 ms
Remote clock offset: 0.328 ms

# Below is generated by plot.py at 2019-06-27 21:19:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.15 Mbit/s
95th percentile per-packet one-way delay: 7.079 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 45.15 Mbit/s
95th percentile per-packet one-way delay: 7.079 ms
Loss rate: 1.48%
```

Run 3: Report of Verus — Data Link

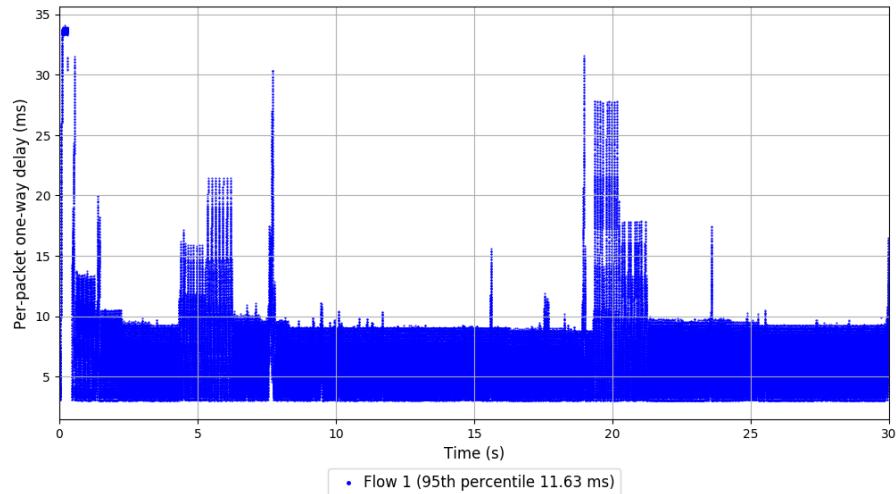
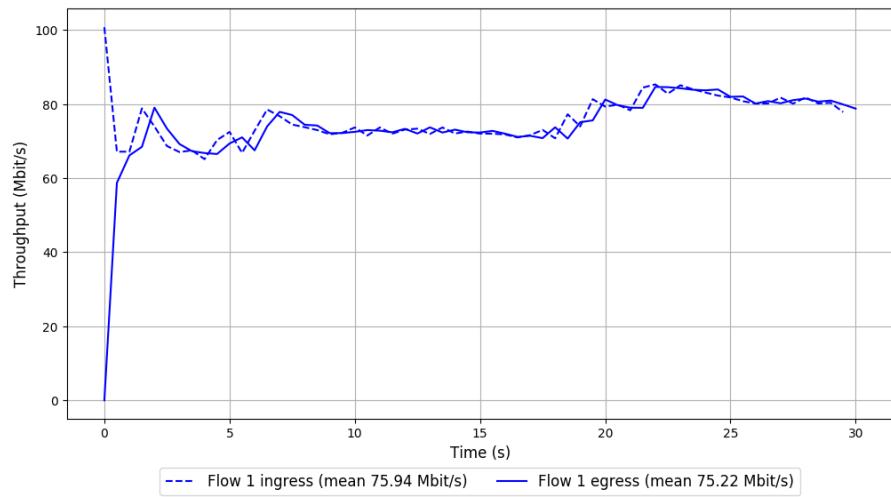


Run 4: Statistics of Verus

```
Start at: 2019-06-27 20:36:12
End at: 2019-06-27 20:36:42
Local clock offset: -6.34 ms
Remote clock offset: 0.438 ms

# Below is generated by plot.py at 2019-06-27 21:19:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.22 Mbit/s
95th percentile per-packet one-way delay: 11.629 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 75.22 Mbit/s
95th percentile per-packet one-way delay: 11.629 ms
Loss rate: 0.89%
```

Run 4: Report of Verus — Data Link

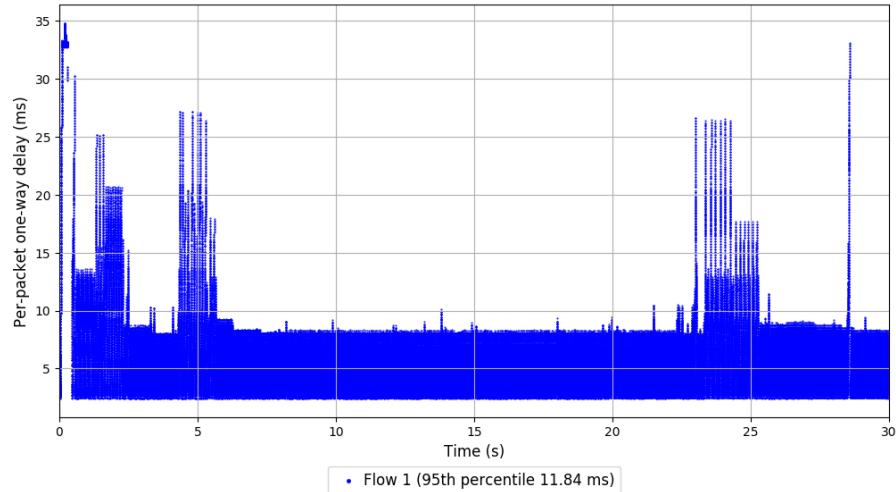
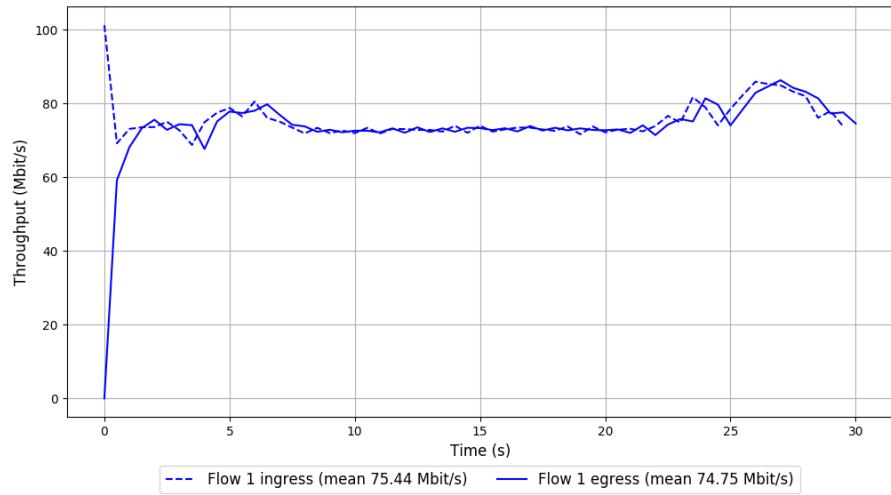


Run 5: Statistics of Verus

```
Start at: 2019-06-27 21:00:46
End at: 2019-06-27 21:01:16
Local clock offset: -5.408 ms
Remote clock offset: 0.592 ms

# Below is generated by plot.py at 2019-06-27 21:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.75 Mbit/s
95th percentile per-packet one-way delay: 11.835 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 74.75 Mbit/s
95th percentile per-packet one-way delay: 11.835 ms
Loss rate: 0.91%
```

Run 5: Report of Verus — Data Link

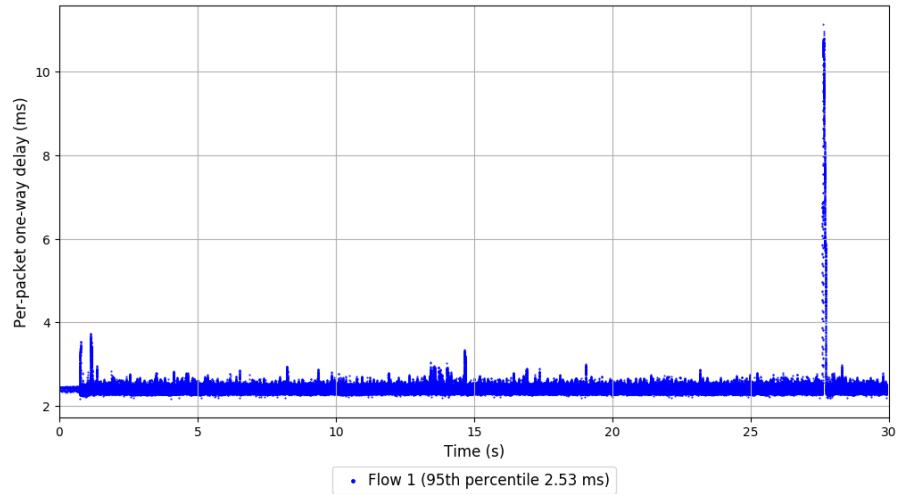
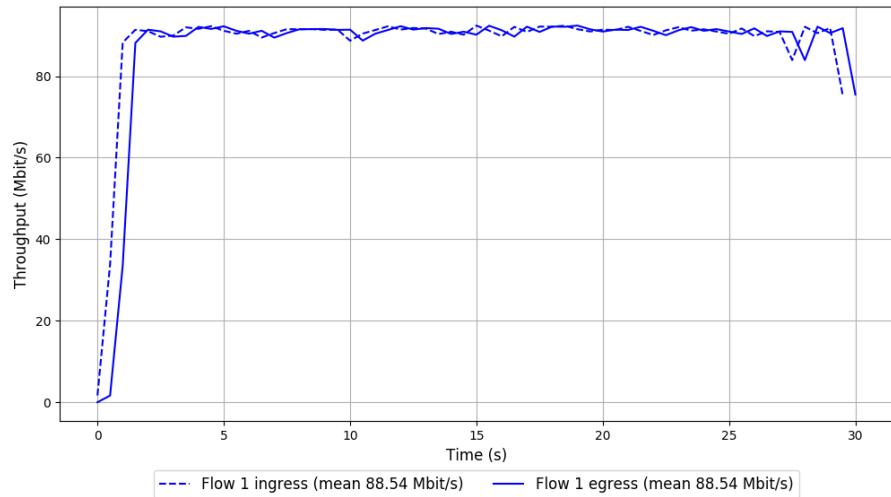


```
Run 1: Statistics of PCC-Vivace

Start at: 2019-06-27 19:28:10
End at: 2019-06-27 19:28:40
Local clock offset: -5.1 ms
Remote clock offset: -0.302 ms

# Below is generated by plot.py at 2019-06-27 21:20:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.54 Mbit/s
95th percentile per-packet one-way delay: 2.532 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.54 Mbit/s
95th percentile per-packet one-way delay: 2.532 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

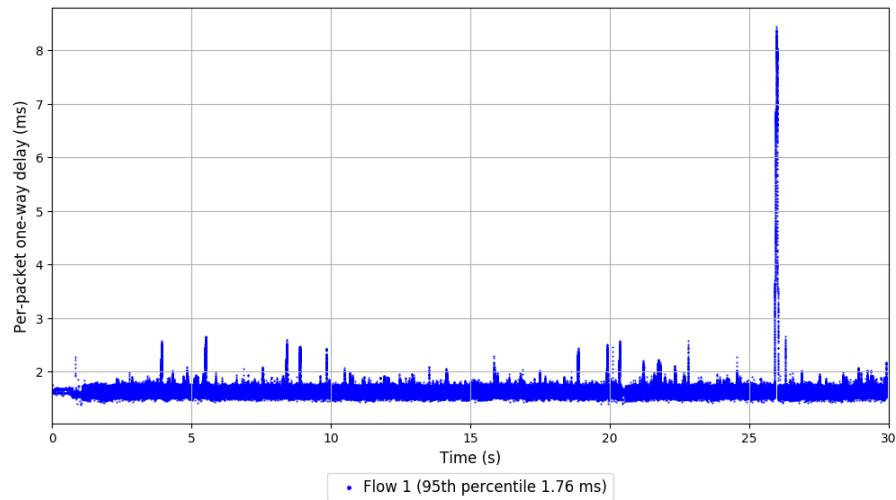
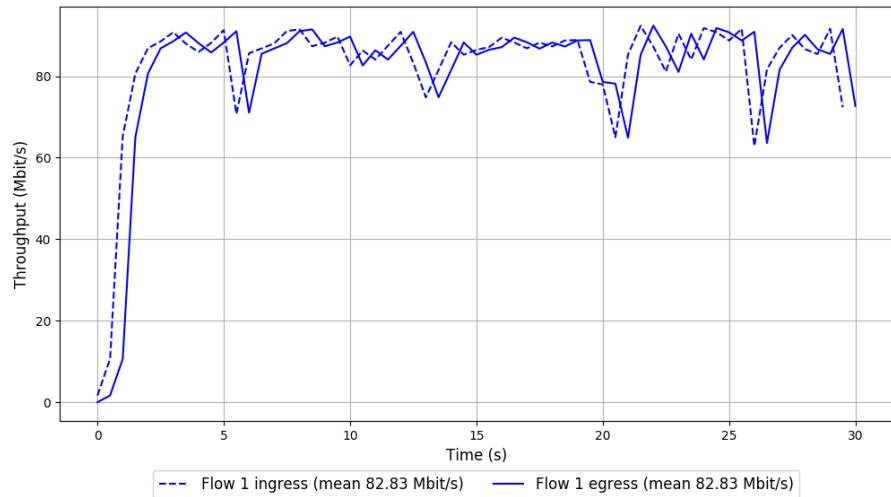


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-06-27 19:52:41
End at: 2019-06-27 19:53:11
Local clock offset: -5.582 ms
Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2019-06-27 21:20:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.83 Mbit/s
95th percentile per-packet one-way delay: 1.760 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.83 Mbit/s
95th percentile per-packet one-way delay: 1.760 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

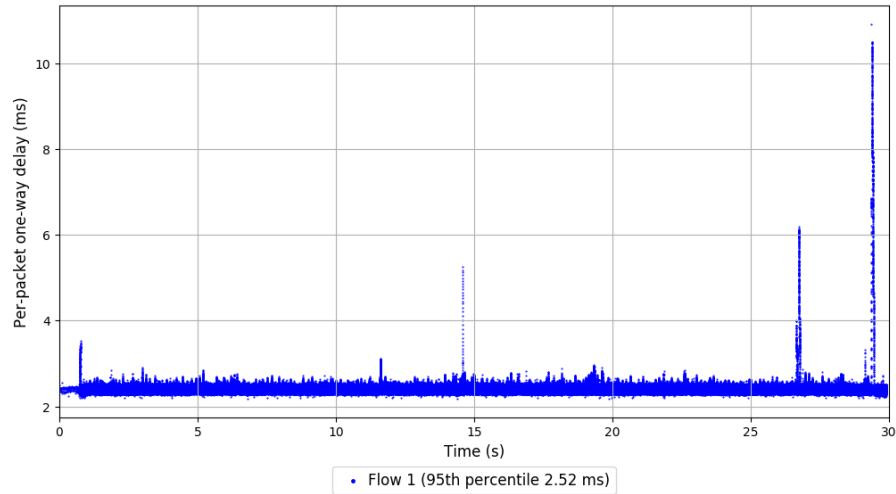
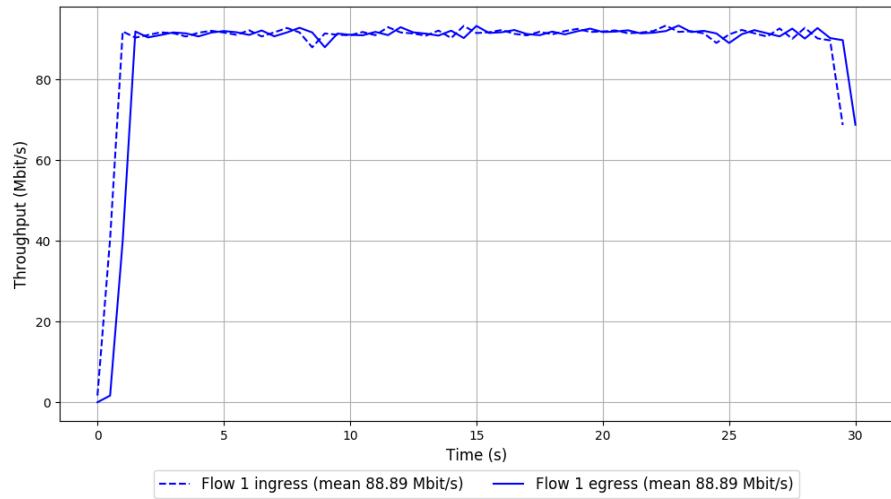


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-06-27 20:17:12
End at: 2019-06-27 20:17:42
Local clock offset: -4.688 ms
Remote clock offset: 0.367 ms

# Below is generated by plot.py at 2019-06-27 21:20:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.89 Mbit/s
95th percentile per-packet one-way delay: 2.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.89 Mbit/s
95th percentile per-packet one-way delay: 2.522 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

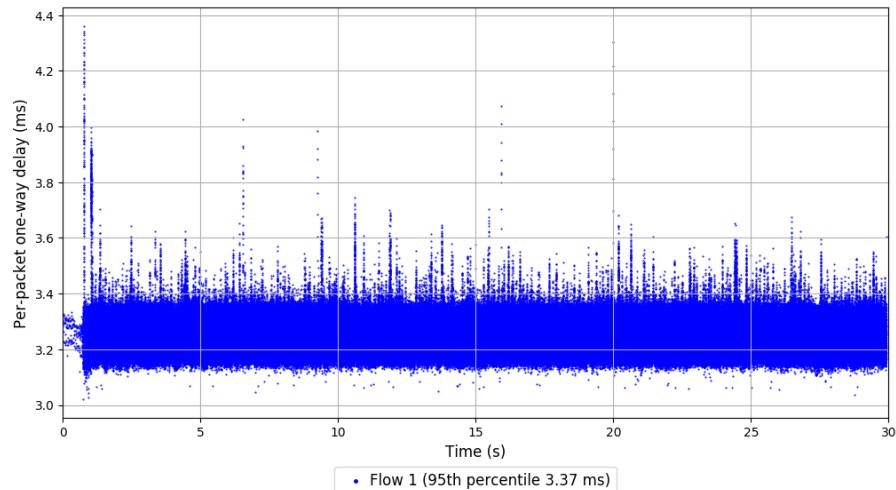
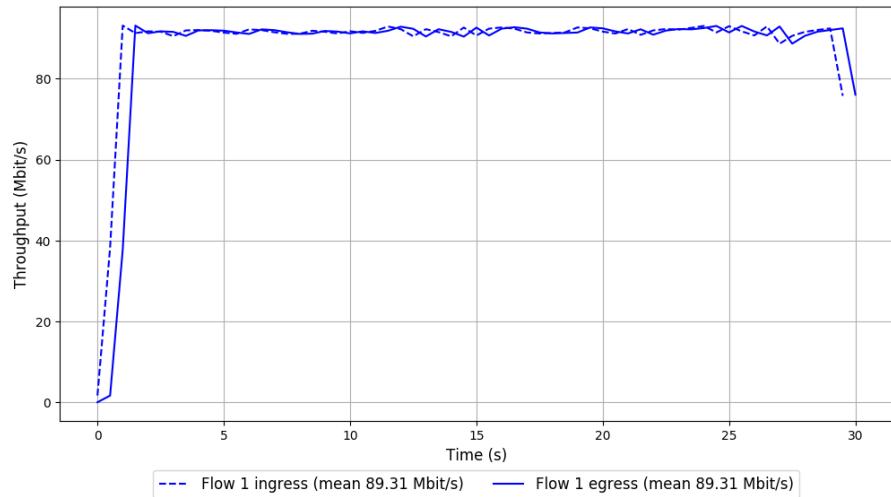


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-06-27 20:41:45
End at: 2019-06-27 20:42:15
Local clock offset: -6.51 ms
Remote clock offset: 0.475 ms

# Below is generated by plot.py at 2019-06-27 21:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.31 Mbit/s
95th percentile per-packet one-way delay: 3.365 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 89.31 Mbit/s
95th percentile per-packet one-way delay: 3.365 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Vivace — Data Link

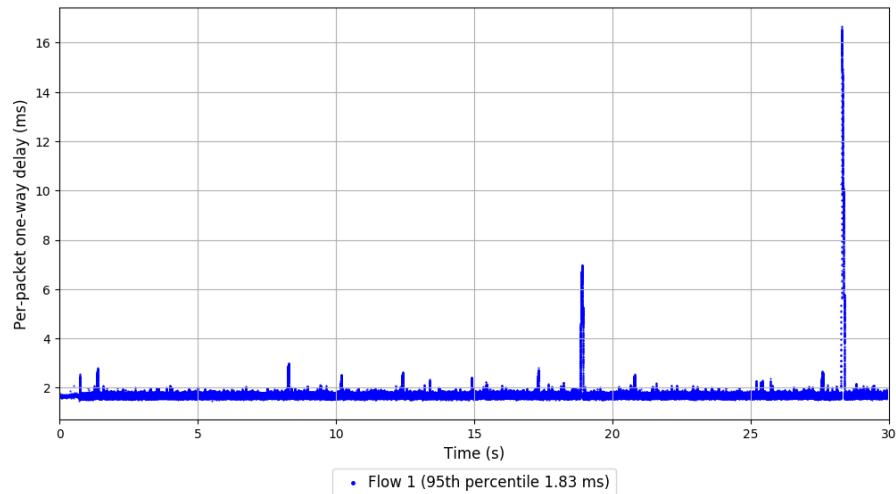
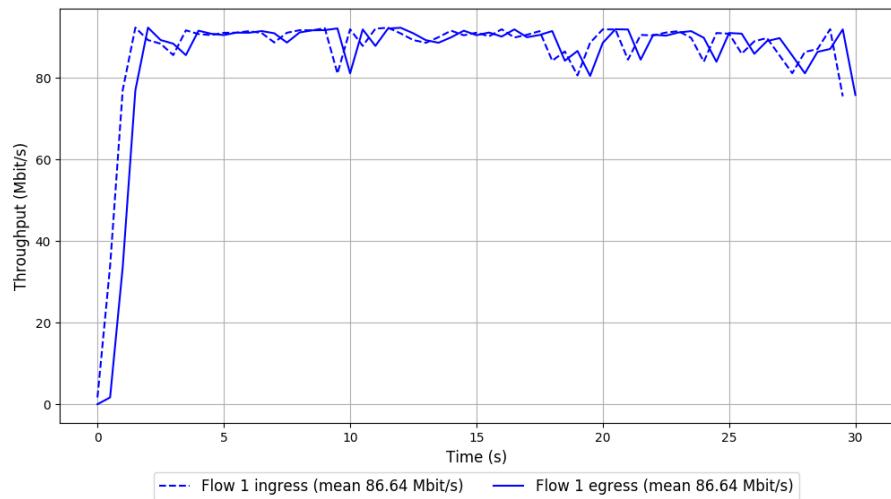


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-06-27 21:06:19
End at: 2019-06-27 21:06:49
Local clock offset: -6.039 ms
Remote clock offset: 0.568 ms

# Below is generated by plot.py at 2019-06-27 21:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.64 Mbit/s
95th percentile per-packet one-way delay: 1.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.64 Mbit/s
95th percentile per-packet one-way delay: 1.829 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

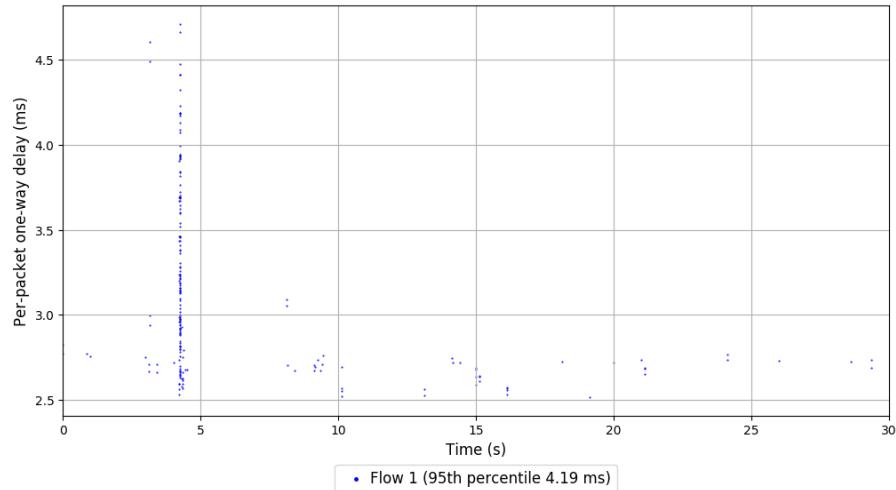
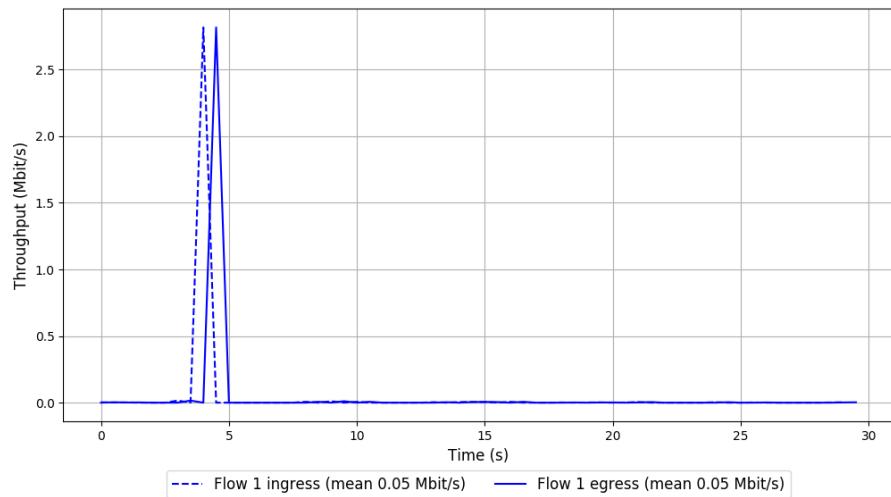


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-06-27 19:07:01
End at: 2019-06-27 19:07:31
Local clock offset: -5.788 ms
Remote clock offset: -0.595 ms

# Below is generated by plot.py at 2019-06-27 21:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.188 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

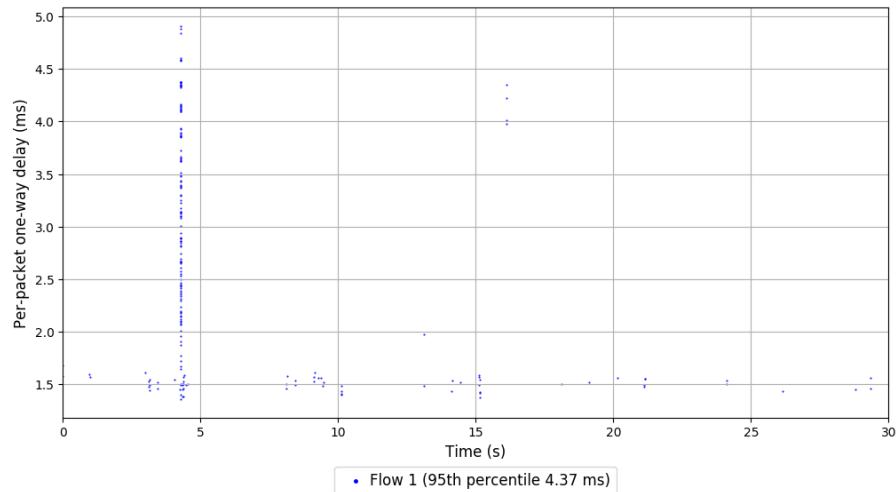
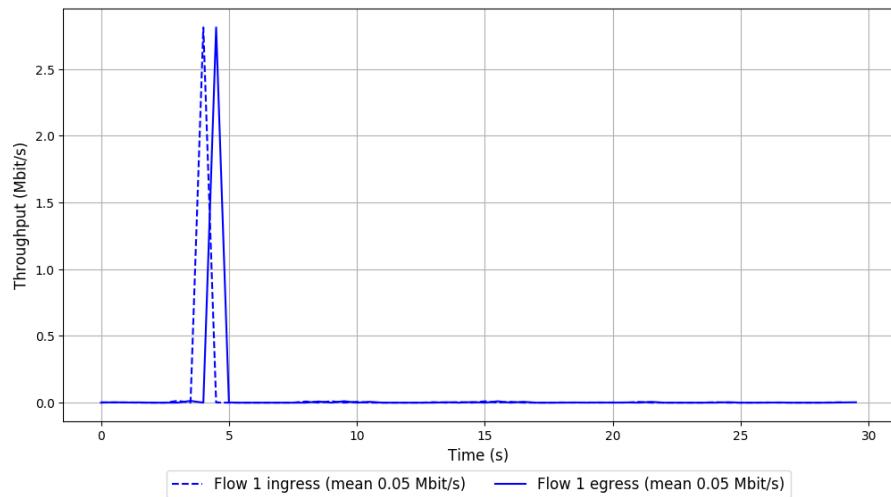


Run 2: Statistics of WebRTC media

```
Start at: 2019-06-27 19:31:33
End at: 2019-06-27 19:32:04
Local clock offset: -5.81 ms
Remote clock offset: -0.325 ms

# Below is generated by plot.py at 2019-06-27 21:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.372 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.372 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

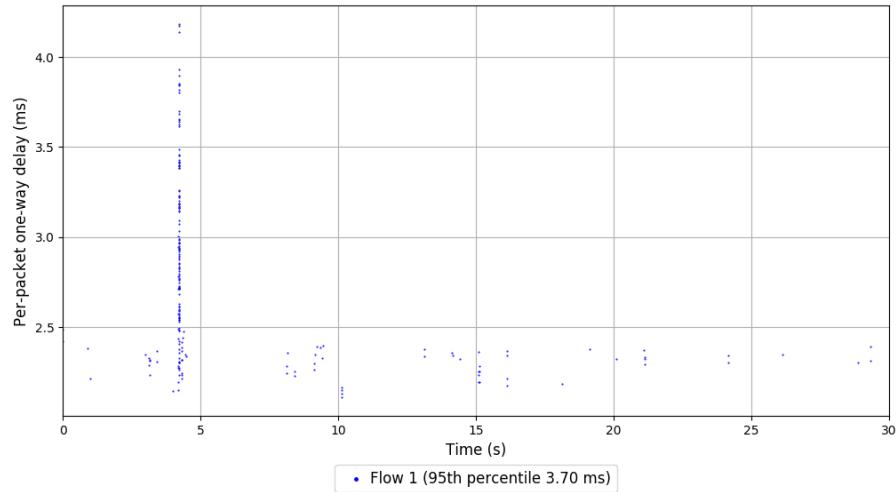
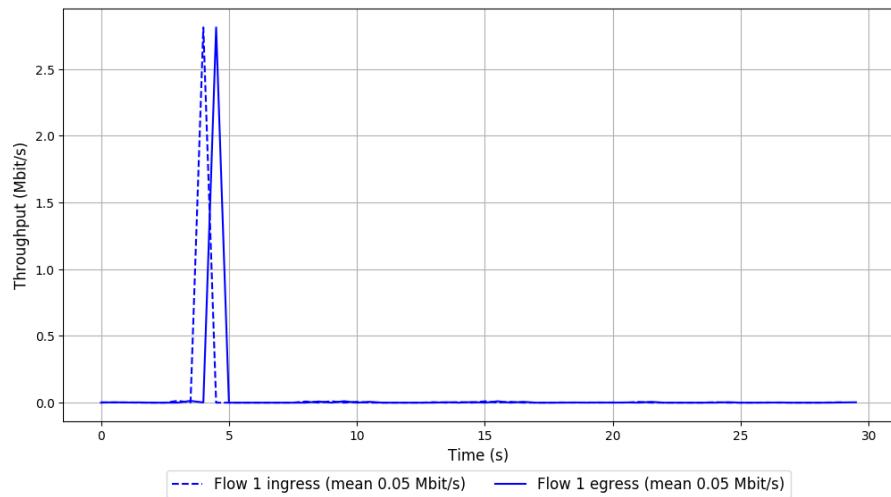


```
Run 3: Statistics of WebRTC media

Start at: 2019-06-27 19:56:04
End at: 2019-06-27 19:56:34
Local clock offset: -4.801 ms
Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-06-27 21:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.701 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.701 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

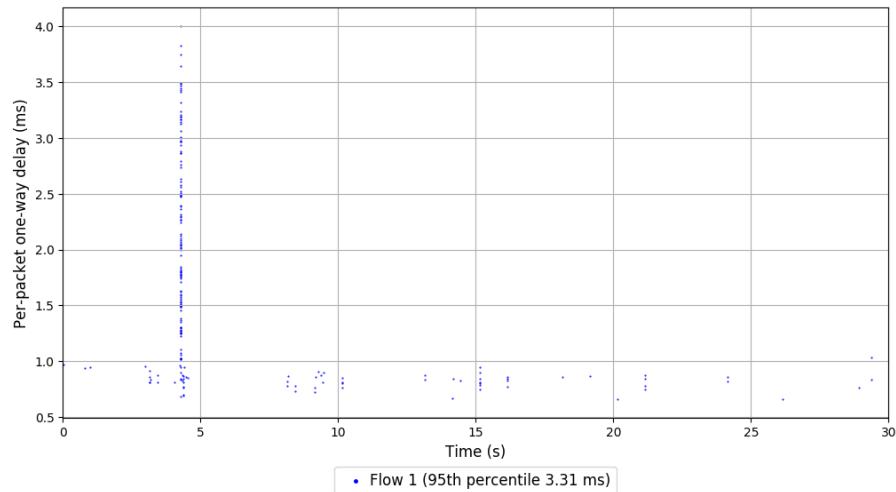
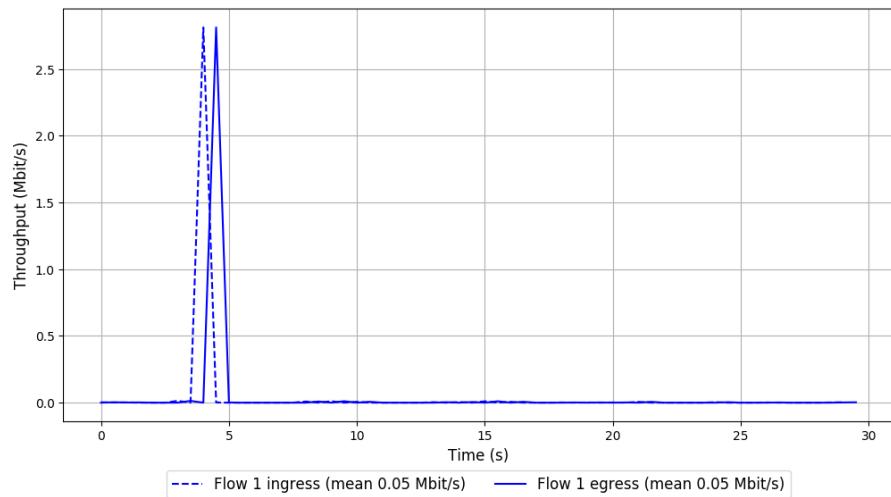


Run 4: Statistics of WebRTC media

```
Start at: 2019-06-27 20:20:36
End at: 2019-06-27 20:21:06
Local clock offset: -4.944 ms
Remote clock offset: 0.439 ms

# Below is generated by plot.py at 2019-06-27 21:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.314 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.314 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-06-27 20:45:08
End at: 2019-06-27 20:45:38
Local clock offset: -6.478 ms
Remote clock offset: 0.557 ms

# Below is generated by plot.py at 2019-06-27 21:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 8.723 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 8.723 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

