

Pantheon Report

Generated at 2019-03-19 10:50:11 (UTC).
Data path: Brazil on p4p1 (*remote*) → AWS Brazil 1 on ens5 (*local*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

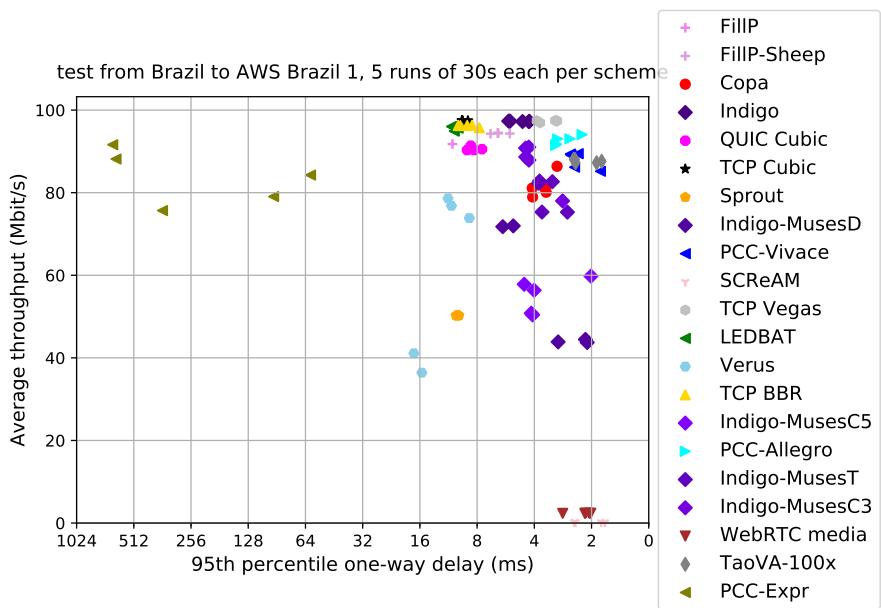
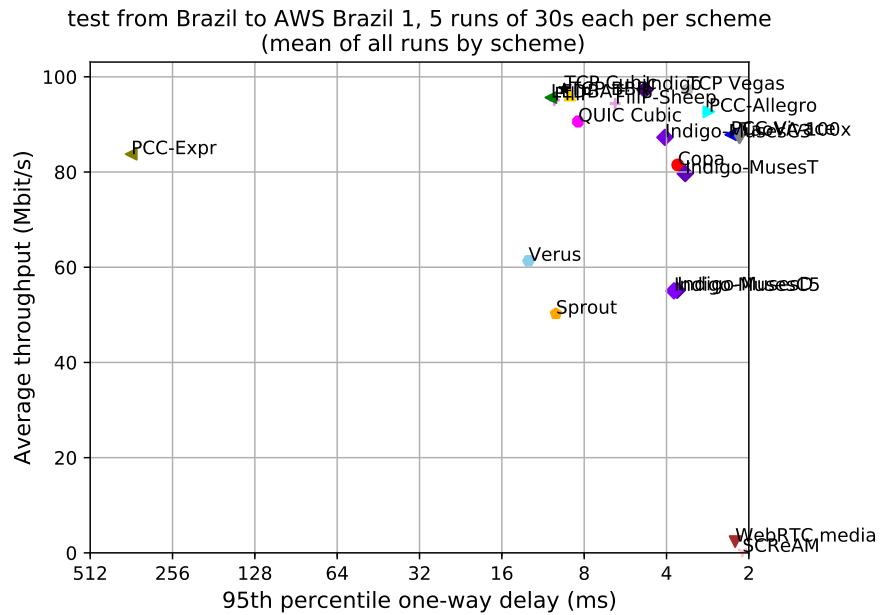
System info:

```
Linux 4.15.0-1033-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 @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
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/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



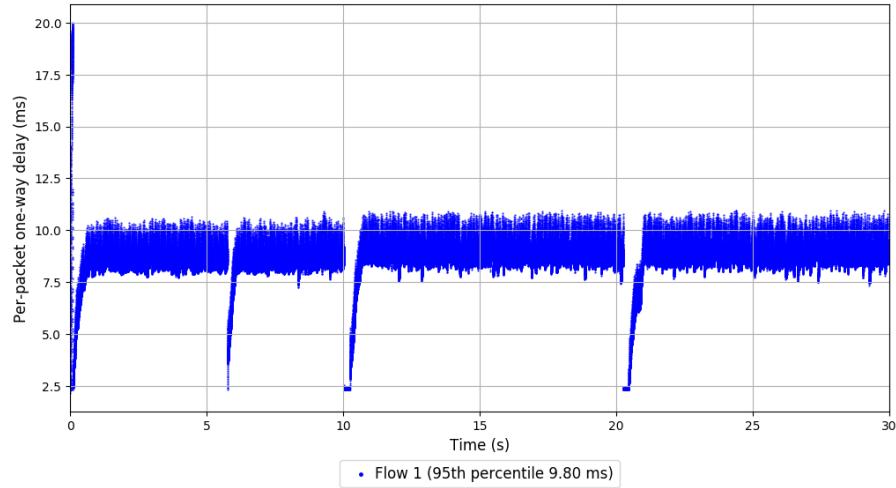
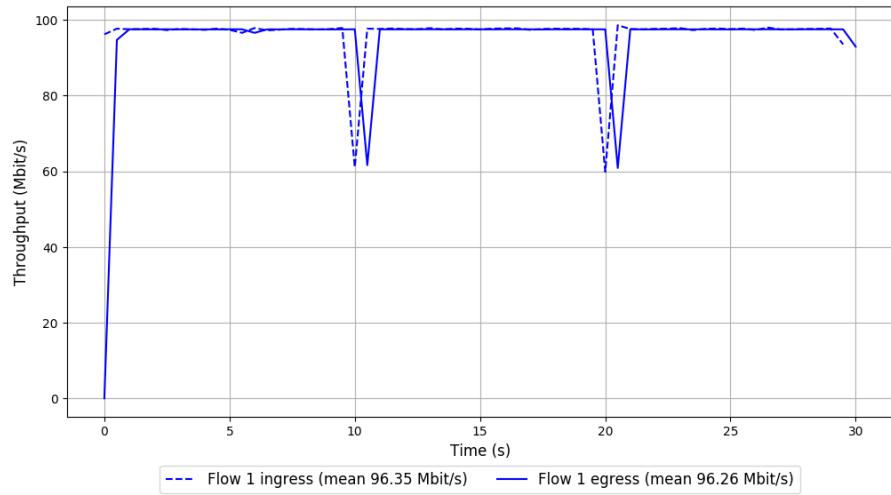
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.18	9.03	0.08
Copa	5	81.48	3.64	0.01
TCP Cubic	5	97.45	9.45	0.06
FillP	5	95.08	10.29	0.02
FillP-Sheep	5	94.38	6.16	0.02
Indigo	5	97.28	4.79	0.02
Indigo-MusesC3	5	87.27	4.06	0.02
Indigo-MusesC5	5	55.04	3.76	0.01
Indigo-MusesD	5	55.16	3.66	0.01
Indigo-MusesT	5	79.67	3.42	0.02
LEDBAT	5	95.64	10.59	0.08
PCC-Allegro	5	92.67	2.80	0.02
PCC-Expr	5	83.75	362.54	3.11
QUIC Cubic	5	90.61	8.41	0.02
SCReAM	5	0.22	2.11	0.03
Sprout	5	50.24	10.15	0.04
TaoVA-100x	5	87.64	2.16	0.02
TCP Vegas	5	97.31	3.36	0.02
Verus	5	61.36	12.79	0.03
PCC-Vivace	5	87.85	2.33	0.02
WebRTC media	5	2.37	2.24	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-19 08:54:09
End at: 2019-03-19 08:54:39
Local clock offset: -4.794 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-03-19 10:37:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 9.802 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 9.802 ms
Loss rate: 0.11%
```

Run 1: Report of TCP BBR — Data Link

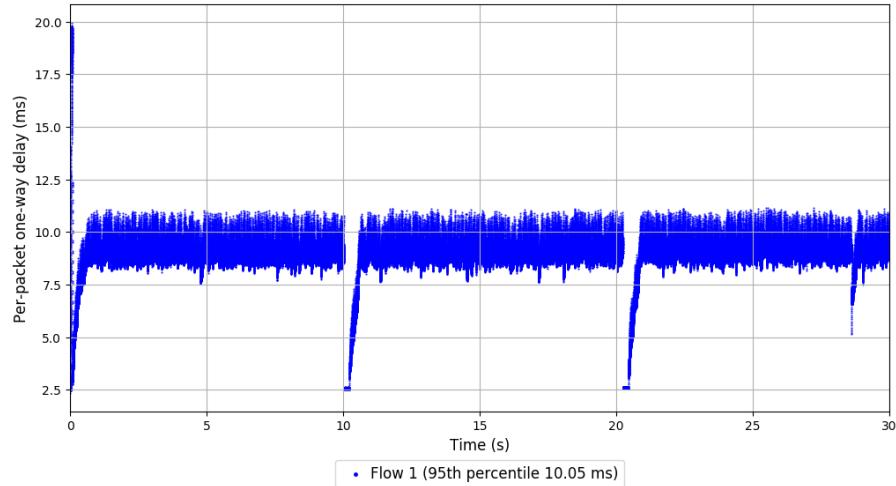
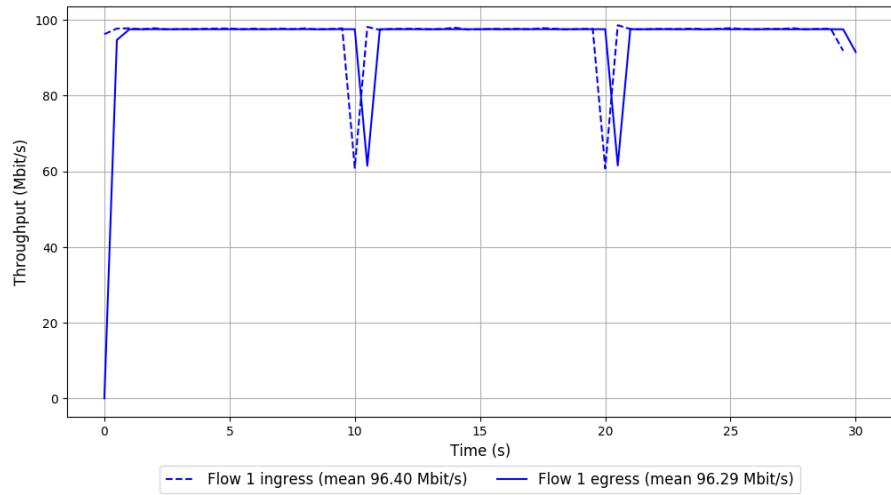


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-19 09:17:52
End at: 2019-03-19 09:18:22
Local clock offset: -5.177 ms
Remote clock offset: 0.157 ms

# Below is generated by plot.py at 2019-03-19 10:37:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.29 Mbit/s
95th percentile per-packet one-way delay: 10.052 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 96.29 Mbit/s
95th percentile per-packet one-way delay: 10.052 ms
Loss rate: 0.13%
```

Run 2: Report of TCP BBR — Data Link

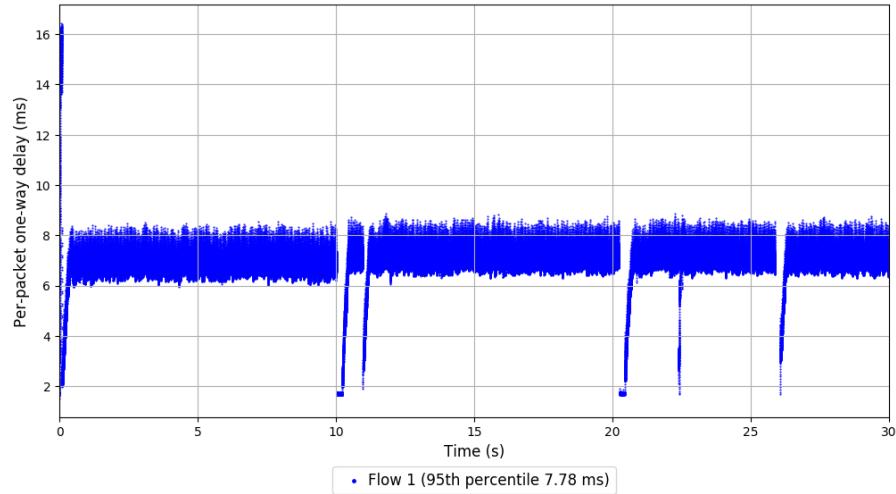
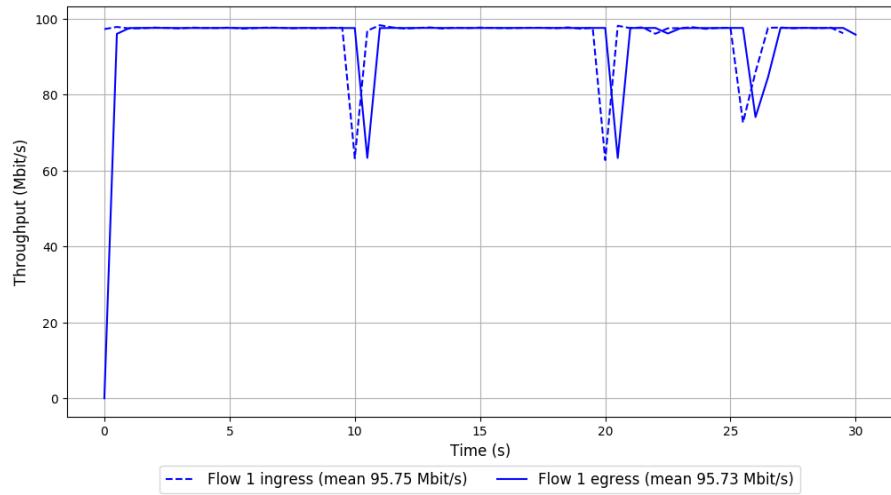


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-19 09:41:36
End at: 2019-03-19 09:42:06
Local clock offset: -7.723 ms
Remote clock offset: 0.265 ms

# Below is generated by plot.py at 2019-03-19 10:37:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.73 Mbit/s
95th percentile per-packet one-way delay: 7.780 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 95.73 Mbit/s
95th percentile per-packet one-way delay: 7.780 ms
Loss rate: 0.03%
```

Run 3: Report of TCP BBR — Data Link

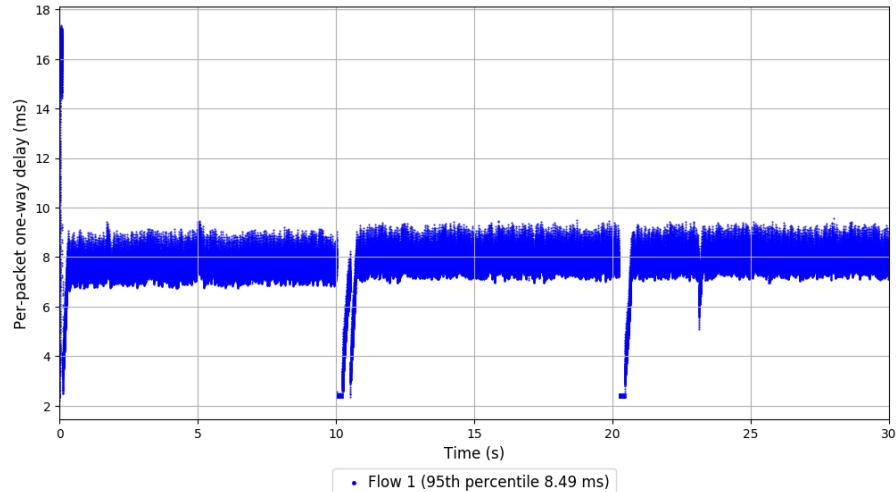
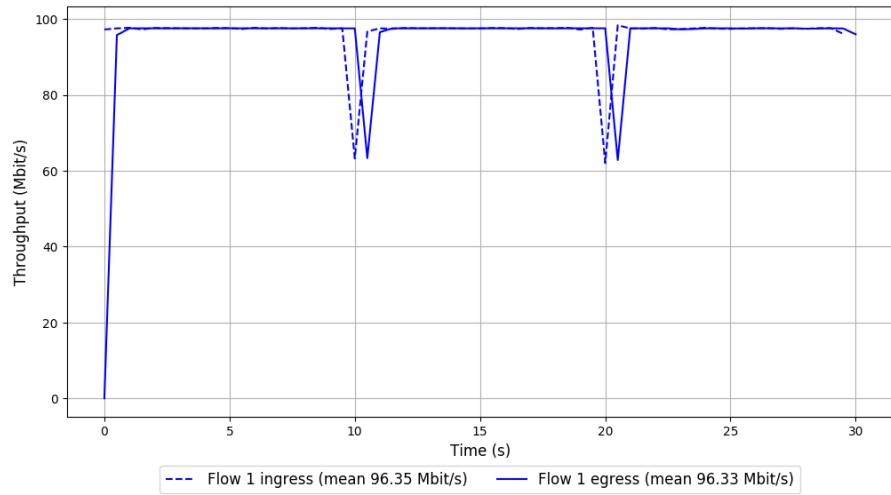


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-19 10:05:19
End at: 2019-03-19 10:05:49
Local clock offset: -7.576 ms
Remote clock offset: 0.429 ms

# Below is generated by plot.py at 2019-03-19 10:37:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 8.495 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 8.495 ms
Loss rate: 0.03%
```

Run 4: Report of TCP BBR — Data Link

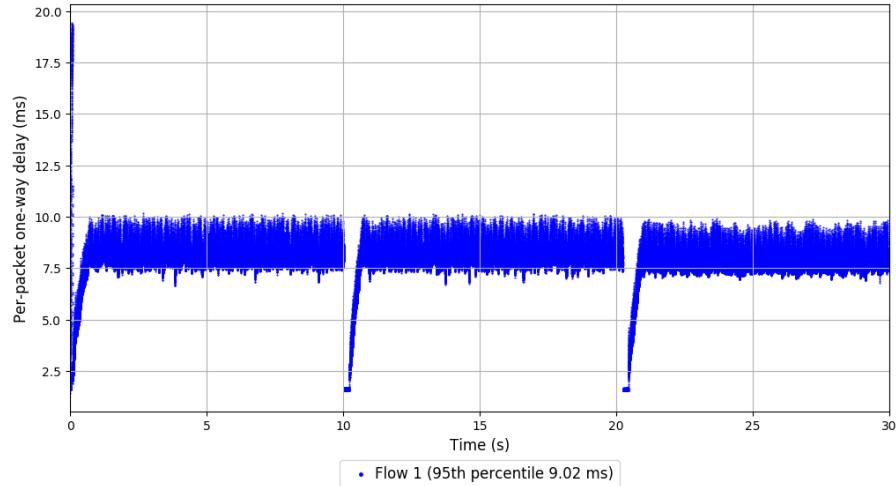
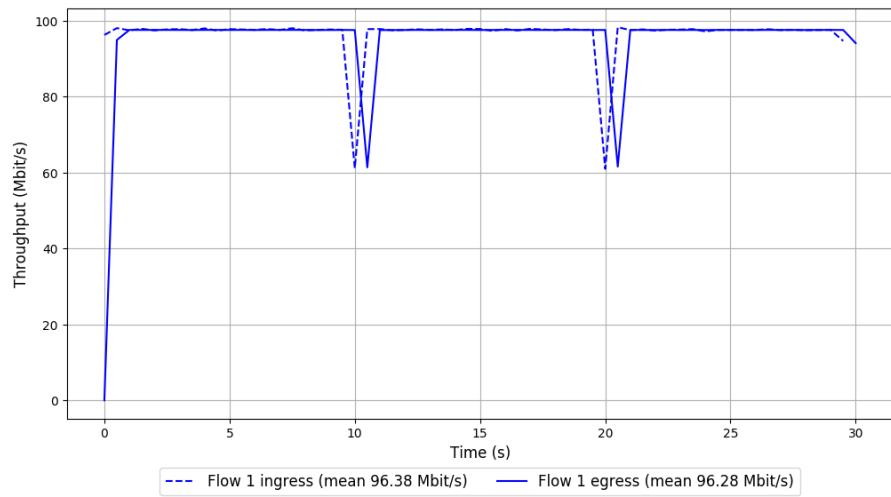


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-19 10:29:03
End at: 2019-03-19 10:29:33
Local clock offset: -6.766 ms
Remote clock offset: 0.605 ms

# Below is generated by plot.py at 2019-03-19 10:37:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 9.021 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 9.021 ms
Loss rate: 0.11%
```

Run 5: Report of TCP BBR — Data Link

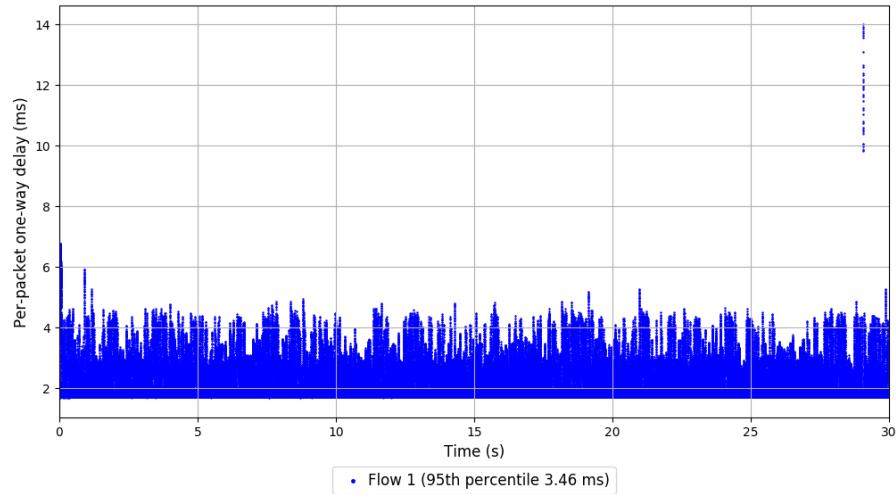
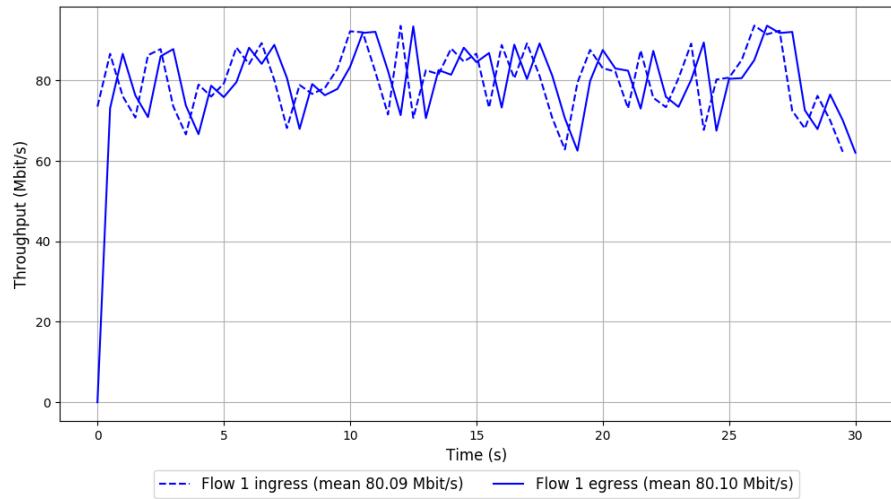


Run 1: Statistics of Copa

```
Start at: 2019-03-19 08:55:17
End at: 2019-03-19 08:55:47
Local clock offset: -5.522 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-03-19 10:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.10 Mbit/s
95th percentile per-packet one-way delay: 3.465 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 80.10 Mbit/s
95th percentile per-packet one-way delay: 3.465 ms
Loss rate: 0.01%
```

Run 1: Report of Copa — Data Link

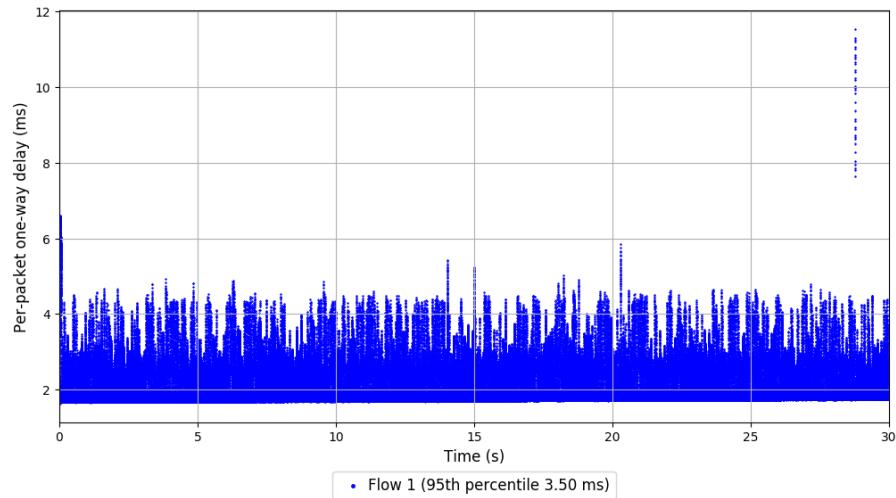
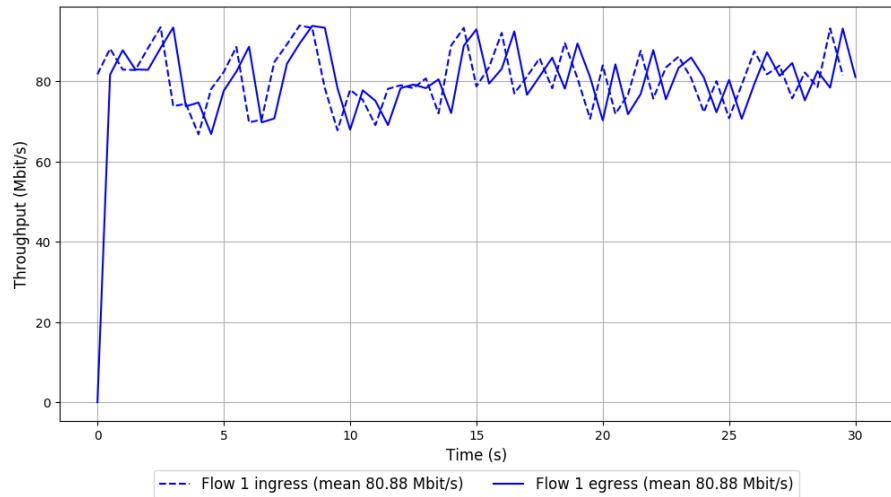


Run 2: Statistics of Copa

```
Start at: 2019-03-19 09:19:01
End at: 2019-03-19 09:19:31
Local clock offset: -6.121 ms
Remote clock offset: 0.22 ms

# Below is generated by plot.py at 2019-03-19 10:37:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.88 Mbit/s
95th percentile per-packet one-way delay: 3.500 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 80.88 Mbit/s
95th percentile per-packet one-way delay: 3.500 ms
Loss rate: 0.02%
```

Run 2: Report of Copa — Data Link

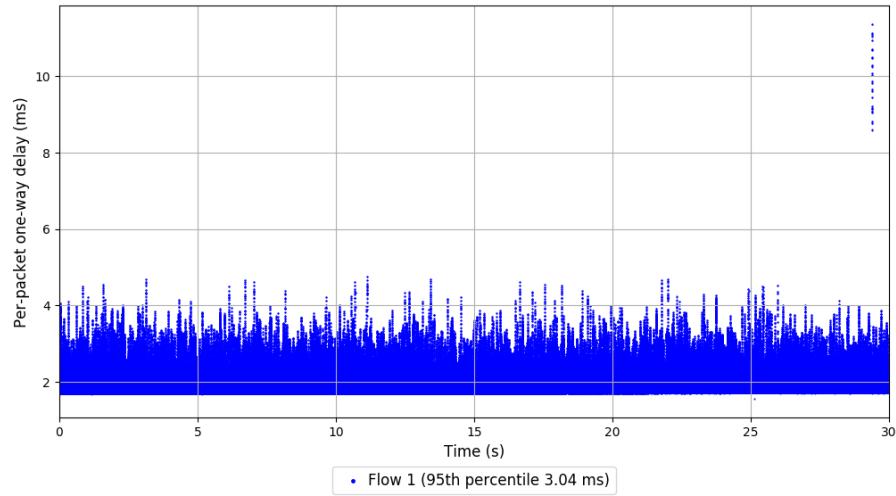
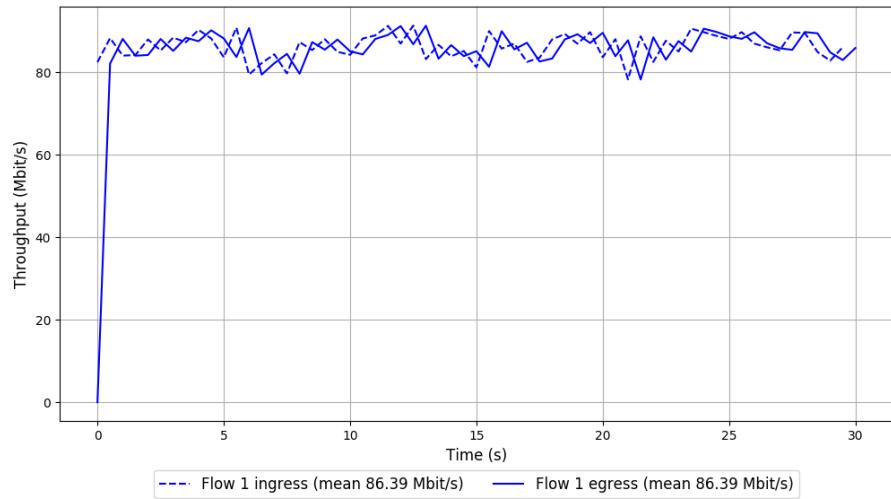


Run 3: Statistics of Copa

```
Start at: 2019-03-19 09:42:44
End at: 2019-03-19 09:43:14
Local clock offset: -7.705 ms
Remote clock offset: 0.273 ms

# Below is generated by plot.py at 2019-03-19 10:38:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.39 Mbit/s
95th percentile per-packet one-way delay: 3.038 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.39 Mbit/s
95th percentile per-packet one-way delay: 3.038 ms
Loss rate: 0.01%
```

Run 3: Report of Copa — Data Link

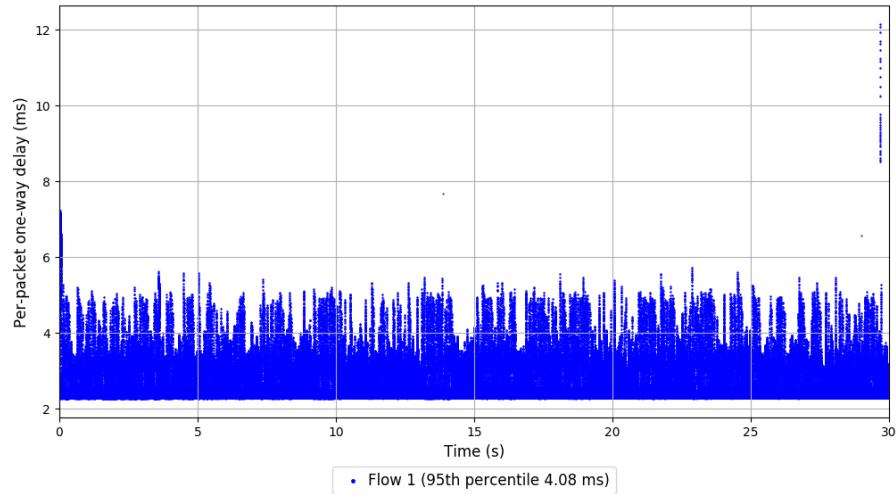
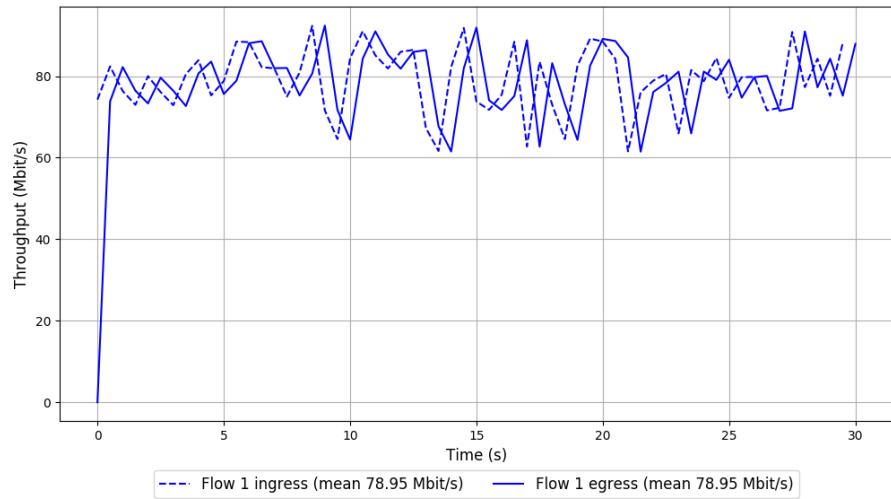


Run 4: Statistics of Copa

```
Start at: 2019-03-19 10:06:27
End at: 2019-03-19 10:06:57
Local clock offset: -7.608 ms
Remote clock offset: 0.488 ms

# Below is generated by plot.py at 2019-03-19 10:38:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.95 Mbit/s
95th percentile per-packet one-way delay: 4.083 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 78.95 Mbit/s
95th percentile per-packet one-way delay: 4.083 ms
Loss rate: 0.02%
```

Run 4: Report of Copa — Data Link

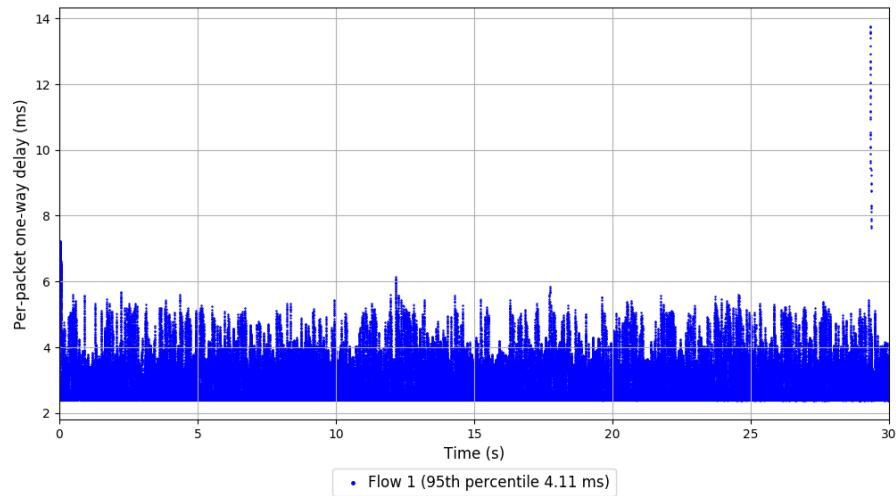
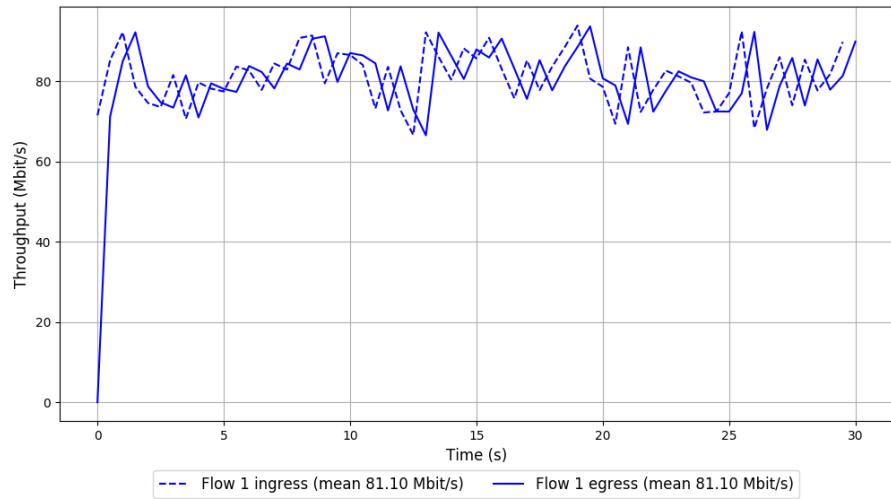


Run 5: Statistics of Copa

```
Start at: 2019-03-19 10:30:11
End at: 2019-03-19 10:30:41
Local clock offset: -5.95 ms
Remote clock offset: 0.529 ms

# Below is generated by plot.py at 2019-03-19 10:39:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.10 Mbit/s
95th percentile per-packet one-way delay: 4.106 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 81.10 Mbit/s
95th percentile per-packet one-way delay: 4.106 ms
Loss rate: 0.01%
```

Run 5: Report of Copa — Data Link

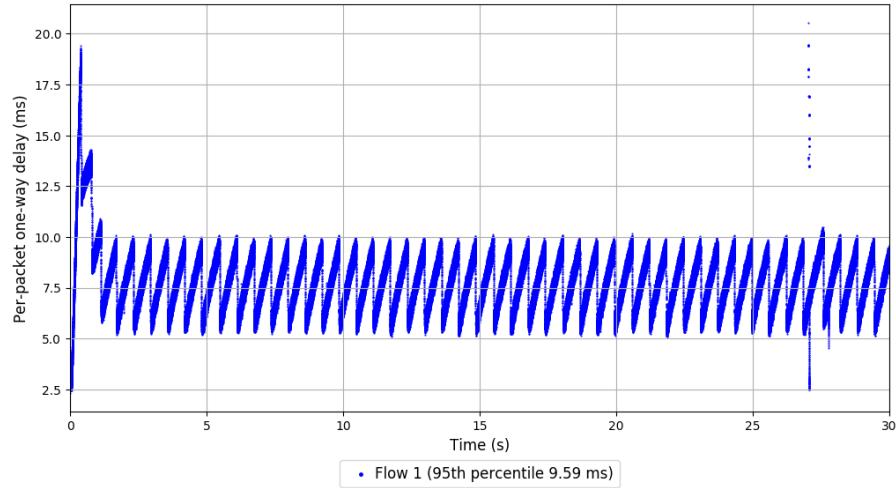
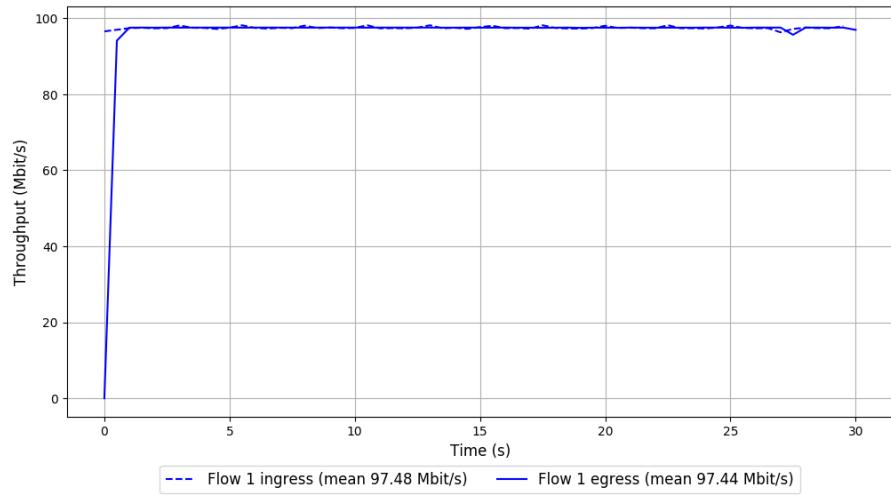


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-03-19 08:53:00
End at: 2019-03-19 08:53:30
Local clock offset: -4.723 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-03-19 10:39:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 9.587 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 9.587 ms
Loss rate: 0.06%
```

Run 1: Report of TCP Cubic — Data Link

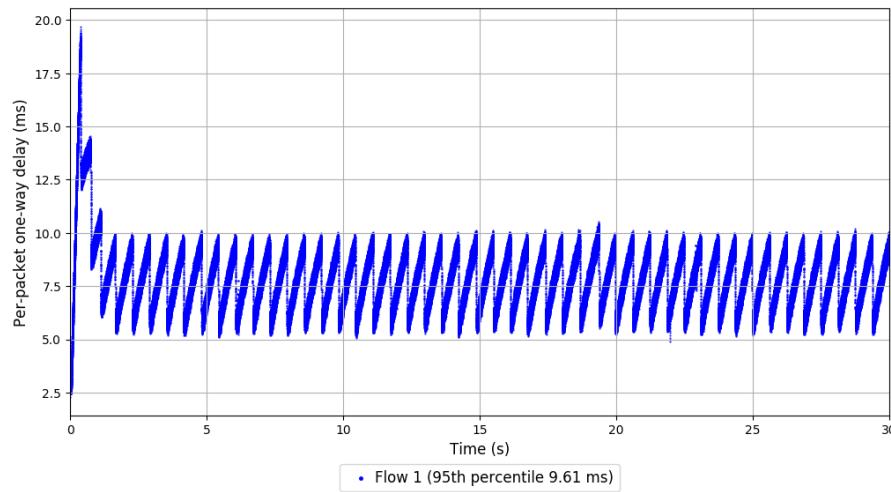
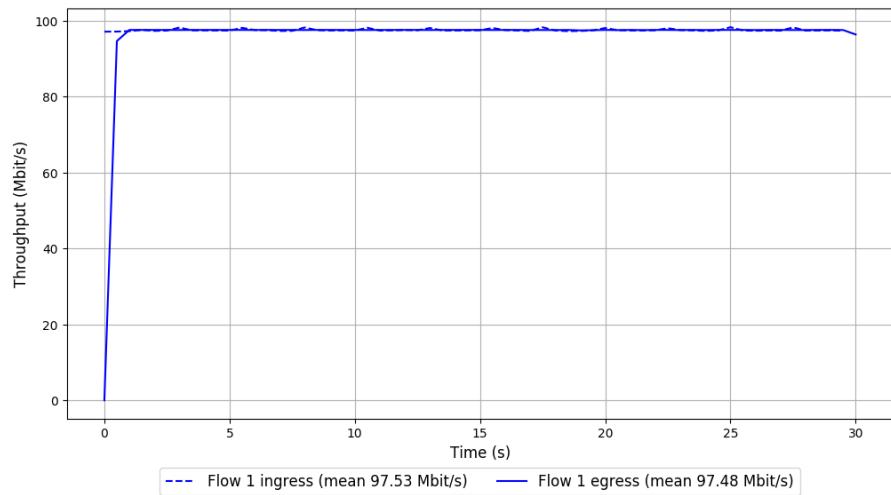


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-19 09:16:44
End at: 2019-03-19 09:17:14
Local clock offset: -4.992 ms
Remote clock offset: 0.186 ms

# Below is generated by plot.py at 2019-03-19 10:39:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 9.613 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 9.613 ms
Loss rate: 0.06%
```

Run 2: Report of TCP Cubic — Data Link

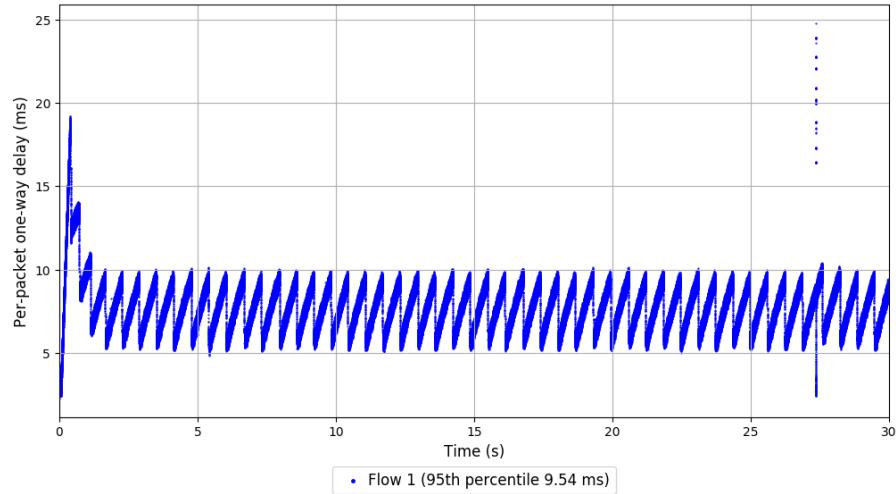
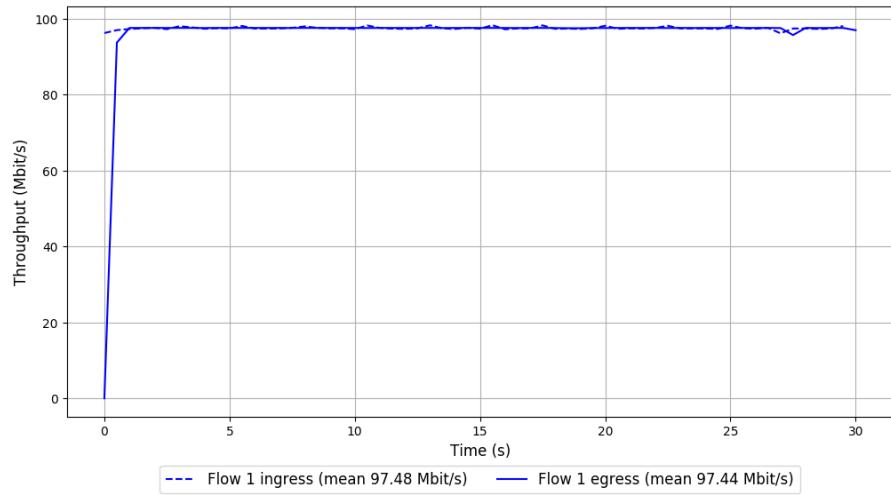


```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2019-03-19 09:40:28
End at: 2019-03-19 09:40:58
Local clock offset: -6.894 ms
Remote clock offset: 0.288 ms

# Below is generated by plot.py at 2019-03-19 10:39:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 9.545 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 9.545 ms
Loss rate: 0.06%
```

Run 3: Report of TCP Cubic — Data Link

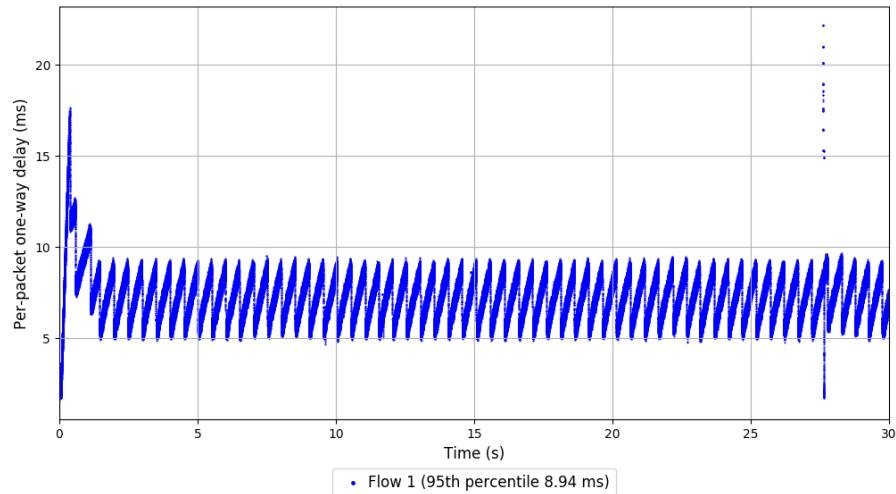
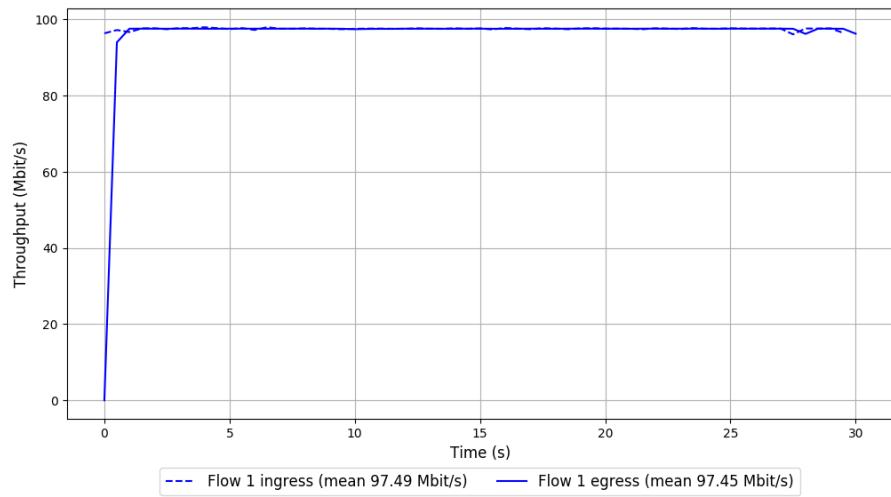


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-19 10:04:11
End at: 2019-03-19 10:04:41
Local clock offset: -8.24 ms
Remote clock offset: 0.359 ms

# Below is generated by plot.py at 2019-03-19 10:39:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 8.943 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 8.943 ms
Loss rate: 0.05%
```

Run 4: Report of TCP Cubic — Data Link

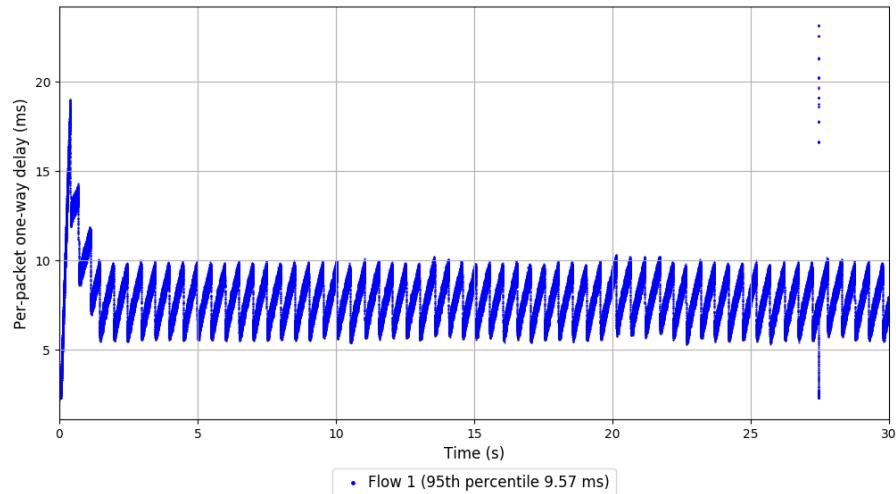
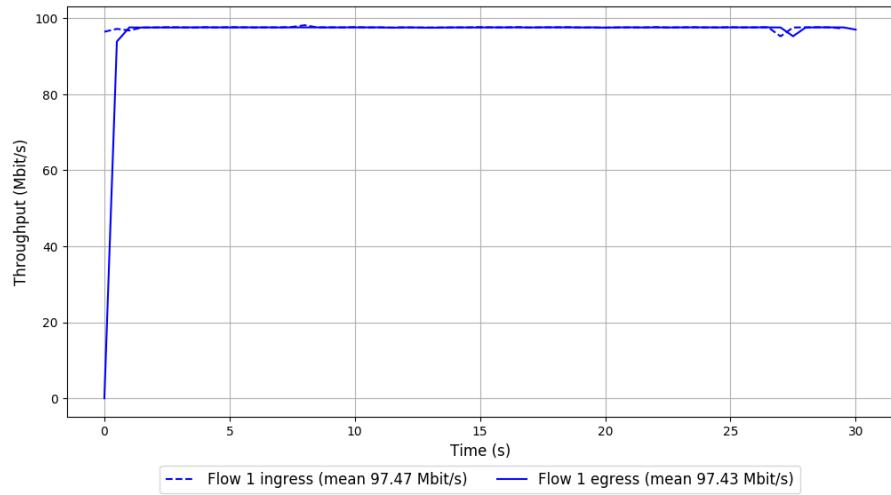


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-19 10:27:55
End at: 2019-03-19 10:28:25
Local clock offset: -6.115 ms
Remote clock offset: 0.603 ms

# Below is generated by plot.py at 2019-03-19 10:39:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 9.569 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 9.569 ms
Loss rate: 0.05%
```

Run 5: Report of TCP Cubic — Data Link

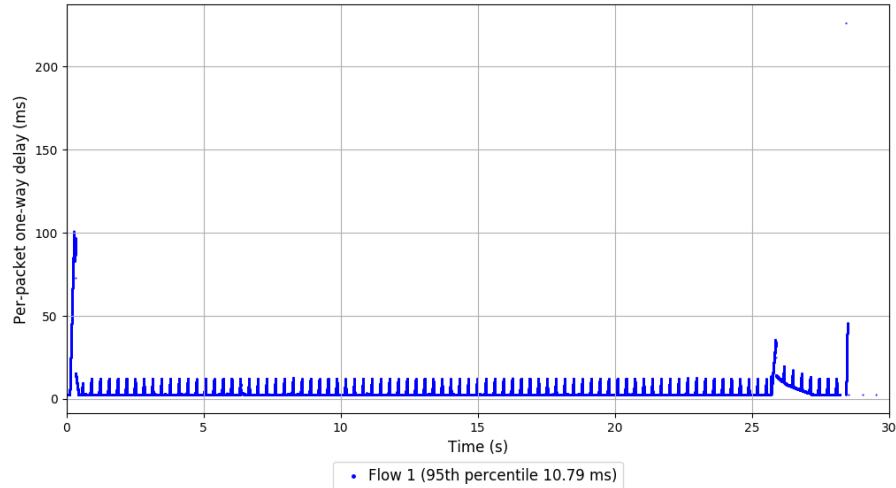
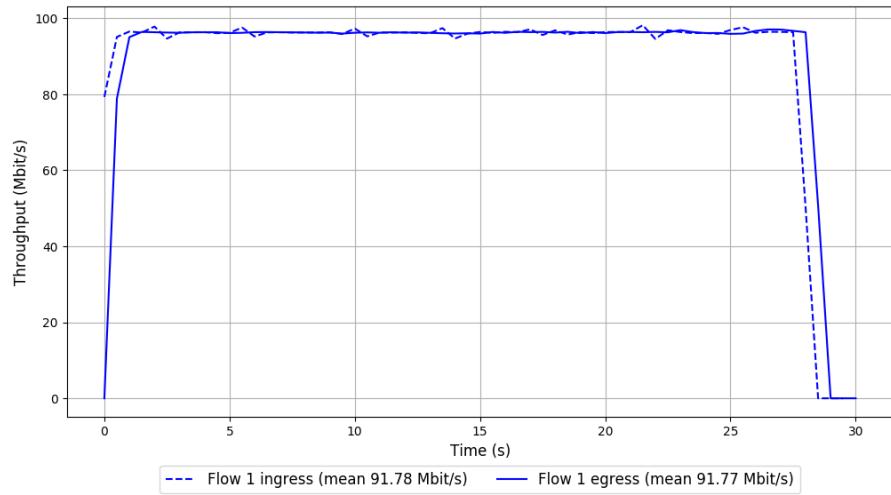


```
Run 1: Statistics of FillP

Start at: 2019-03-19 08:51:53
End at: 2019-03-19 08:52:23
Local clock offset: -4.703 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-03-19 10:39:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.77 Mbit/s
95th percentile per-packet one-way delay: 10.786 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.77 Mbit/s
95th percentile per-packet one-way delay: 10.786 ms
Loss rate: 0.00%
```

Run 1: Report of FillP — Data Link

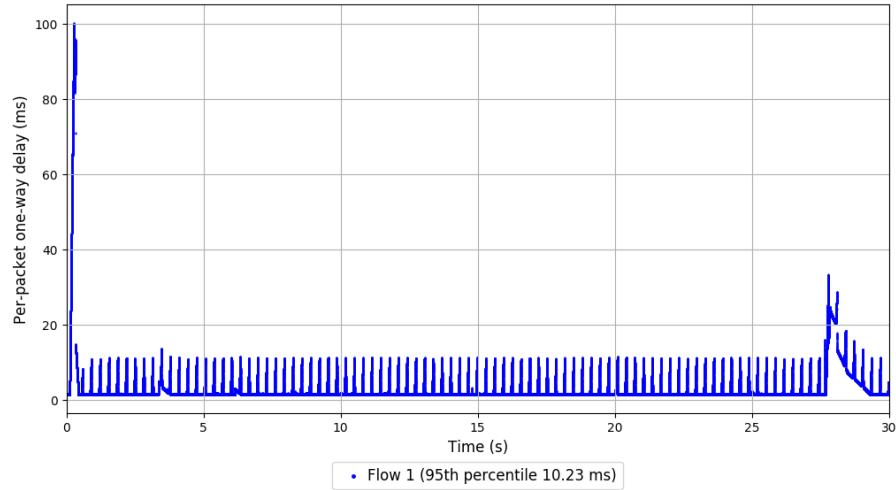
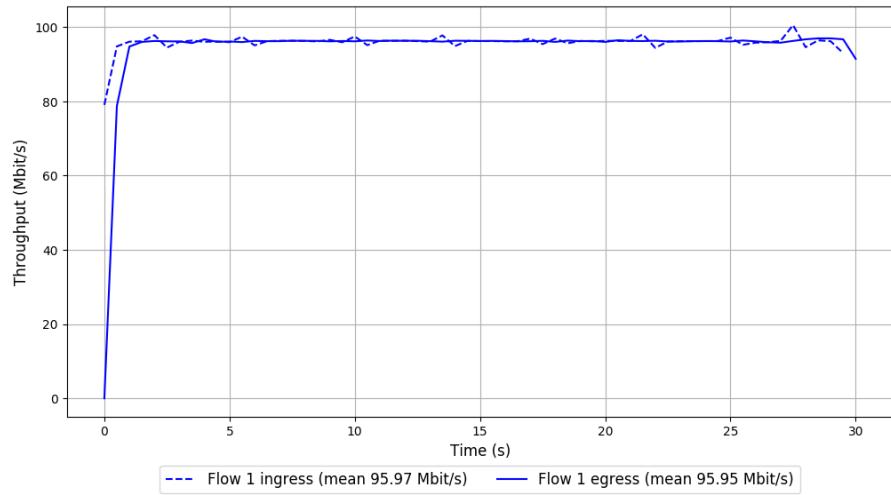


Run 2: Statistics of FillP

```
Start at: 2019-03-19 09:15:37
End at: 2019-03-19 09:16:07
Local clock offset: -5.714 ms
Remote clock offset: 0.115 ms

# Below is generated by plot.py at 2019-03-19 10:39:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 10.229 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 10.229 ms
Loss rate: 0.04%
```

Run 2: Report of FillP — Data Link

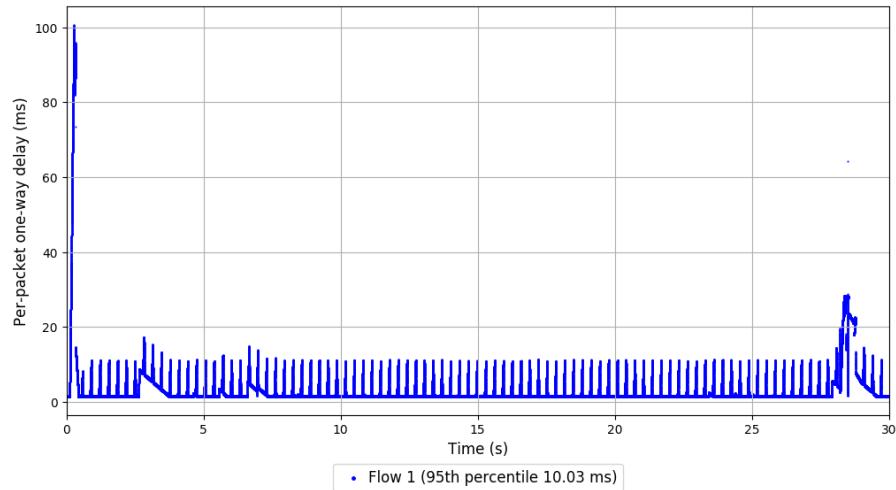
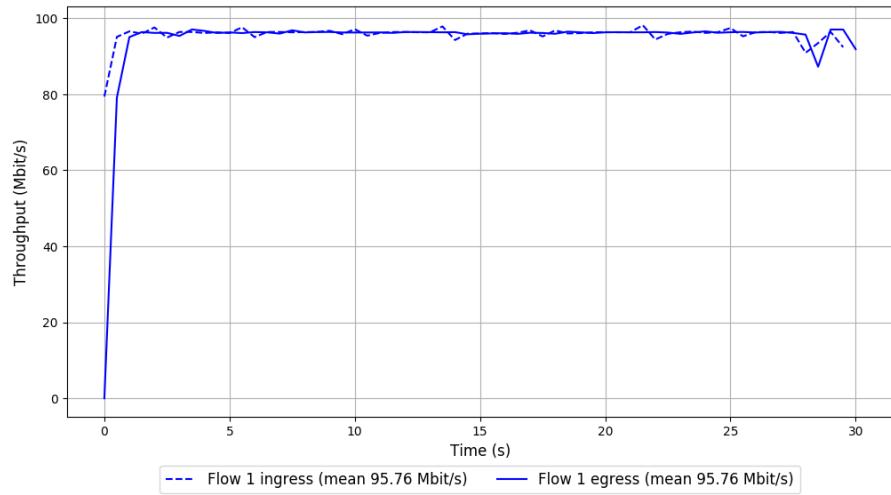


Run 3: Statistics of FillP

```
Start at: 2019-03-19 09:39:20
End at: 2019-03-19 09:39:50
Local clock offset: -7.684 ms
Remote clock offset: 0.343 ms

# Below is generated by plot.py at 2019-03-19 10:39:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 10.033 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 10.033 ms
Loss rate: 0.02%
```

Run 3: Report of FillP — Data Link

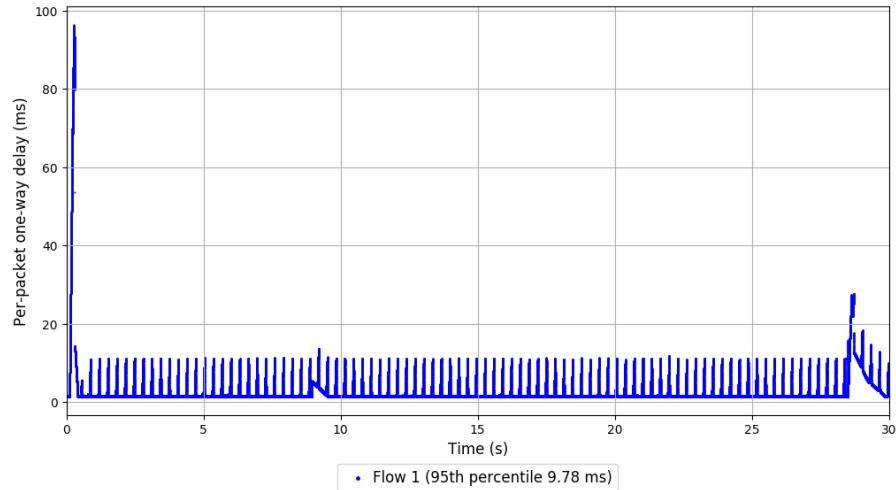
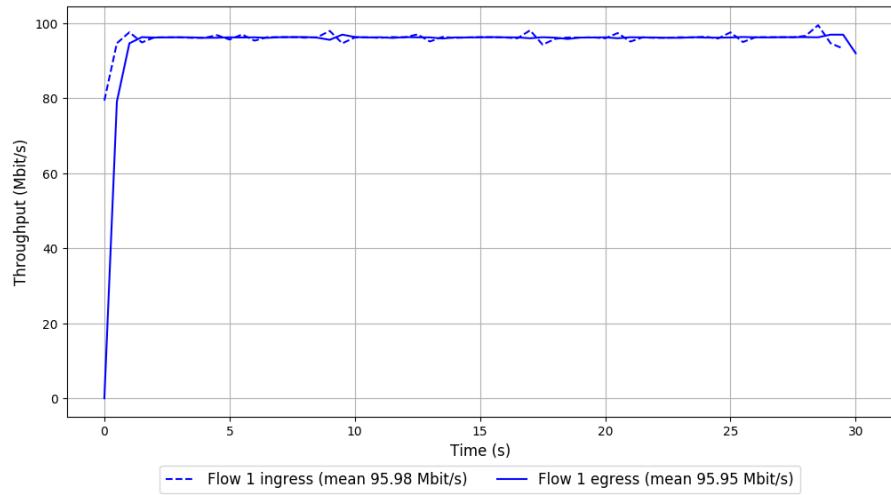


Run 4: Statistics of FillP

```
Start at: 2019-03-19 10:03:04
End at: 2019-03-19 10:03:34
Local clock offset: -8.276 ms
Remote clock offset: 0.469 ms

# Below is generated by plot.py at 2019-03-19 10:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 9.781 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 9.781 ms
Loss rate: 0.04%
```

Run 4: Report of FillP — Data Link

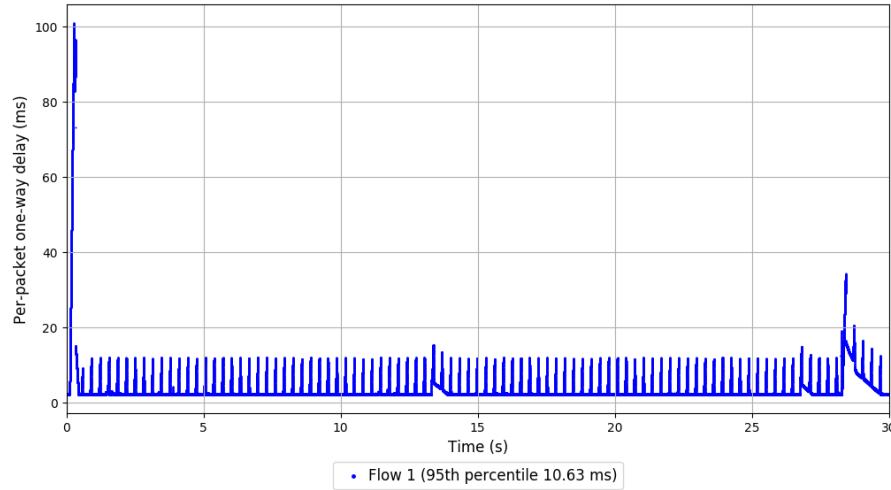
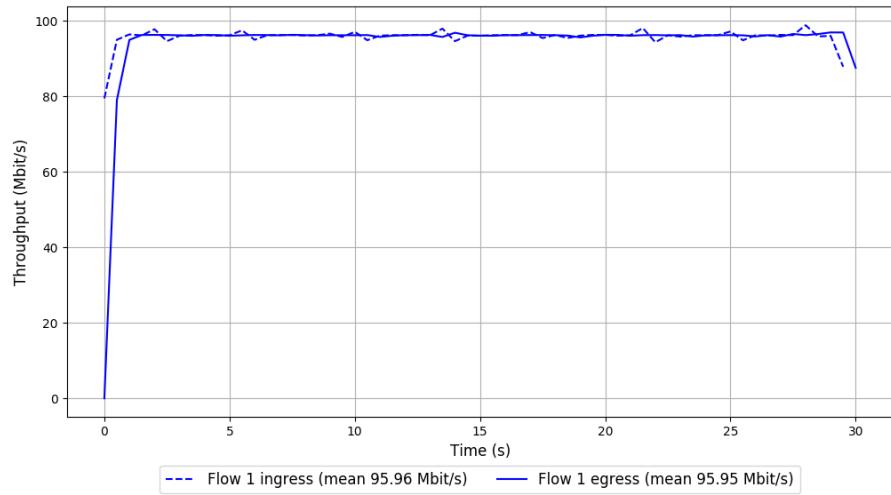


Run 5: Statistics of FillP

```
Start at: 2019-03-19 10:26:48
End at: 2019-03-19 10:27:18
Local clock offset: -6.186 ms
Remote clock offset: 0.579 ms

# Below is generated by plot.py at 2019-03-19 10:40:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 10.627 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 10.627 ms
Loss rate: 0.02%
```

Run 5: Report of FillP — Data Link

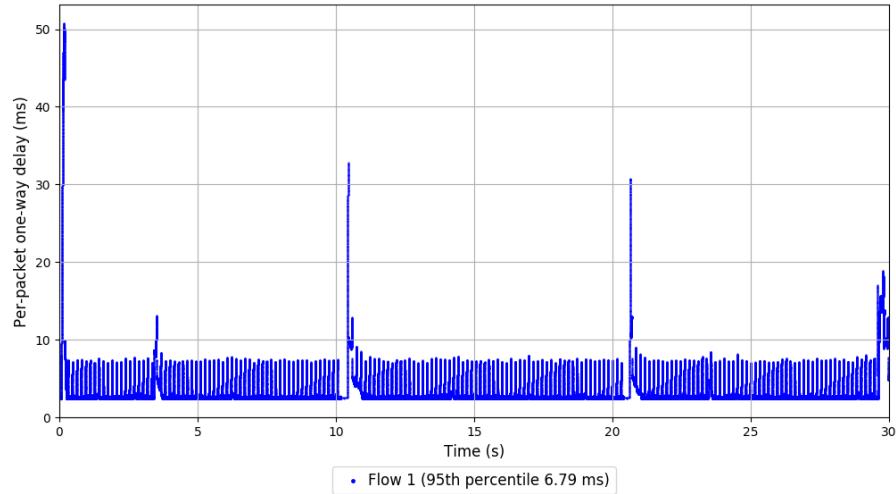
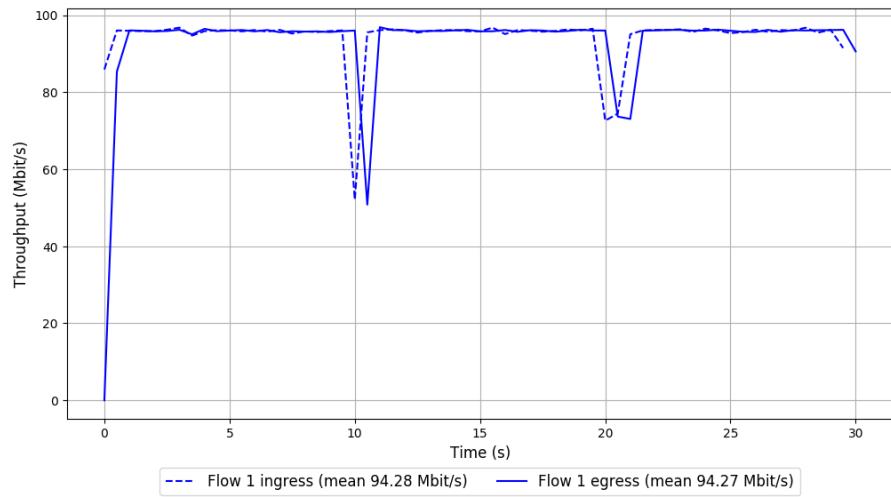


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-03-19 08:49:38
End at: 2019-03-19 08:50:08
Local clock offset: -4.626 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-03-19 10:40:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 6.792 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 6.792 ms
Loss rate: 0.03%
```

Run 1: Report of FillP-Sheep — Data Link

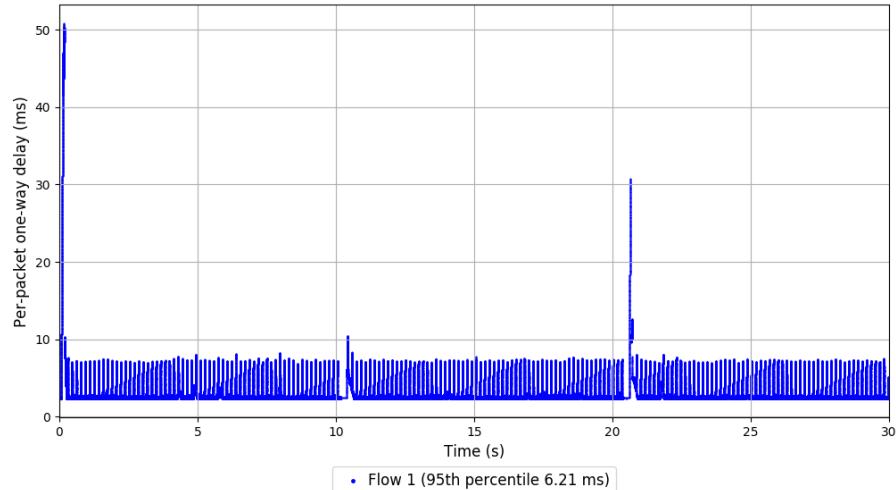
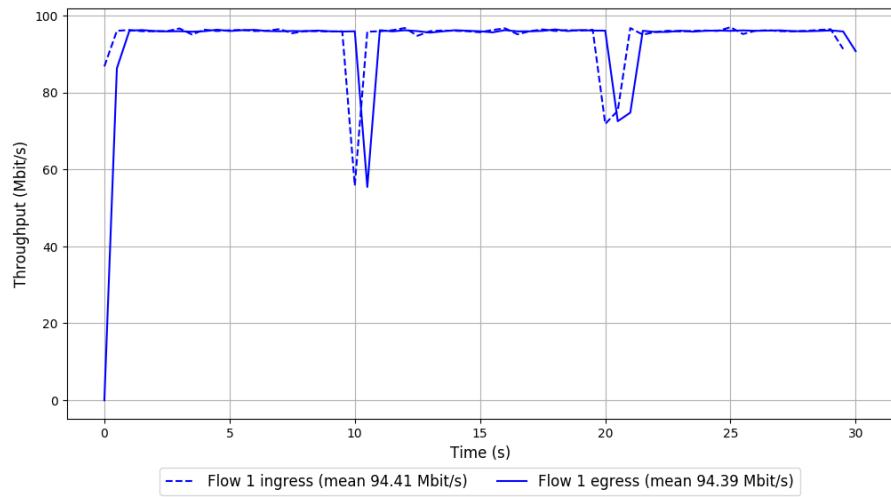


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-19 09:13:21
End at: 2019-03-19 09:13:51
Local clock offset: -4.889 ms
Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2019-03-19 10:40:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 6.206 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 6.206 ms
Loss rate: 0.03%
```

Run 2: Report of FillP-Sheep — Data Link

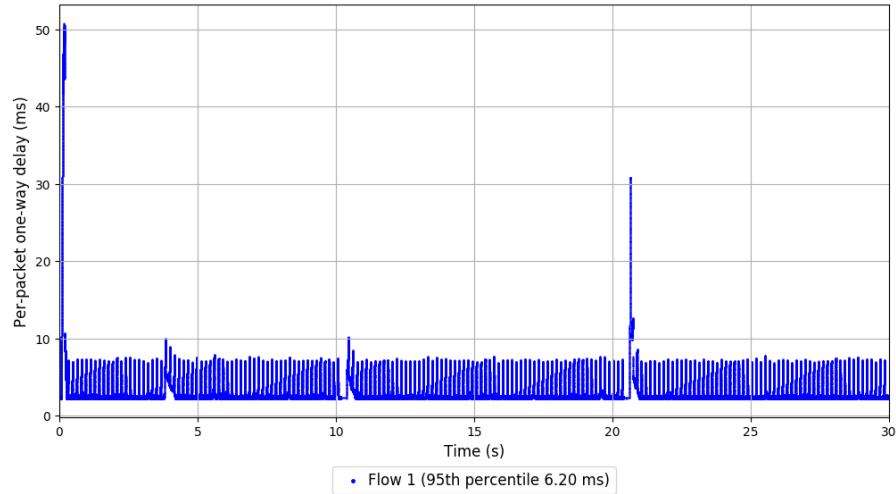
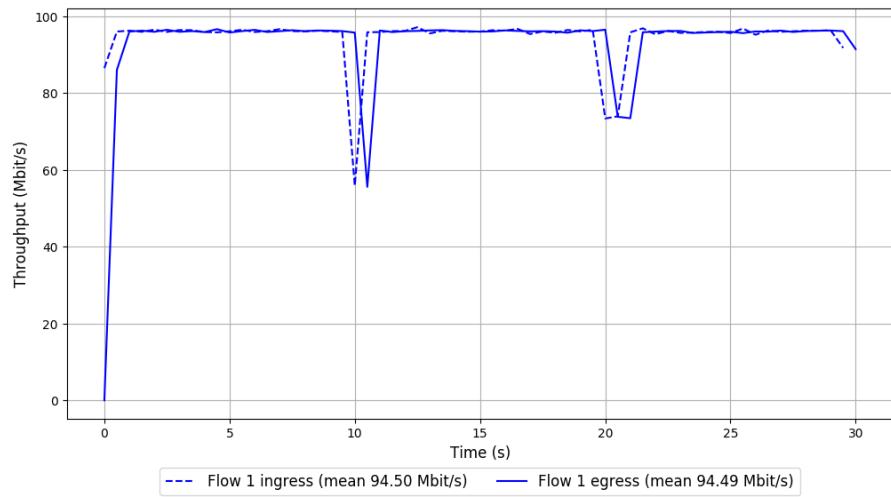


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-19 09:37:05
End at: 2019-03-19 09:37:35
Local clock offset: -6.77 ms
Remote clock offset: 0.313 ms

# Below is generated by plot.py at 2019-03-19 10:40:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.49 Mbit/s
95th percentile per-packet one-way delay: 6.204 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.49 Mbit/s
95th percentile per-packet one-way delay: 6.204 ms
Loss rate: 0.02%
```

Run 3: Report of FillP-Sheep — Data Link

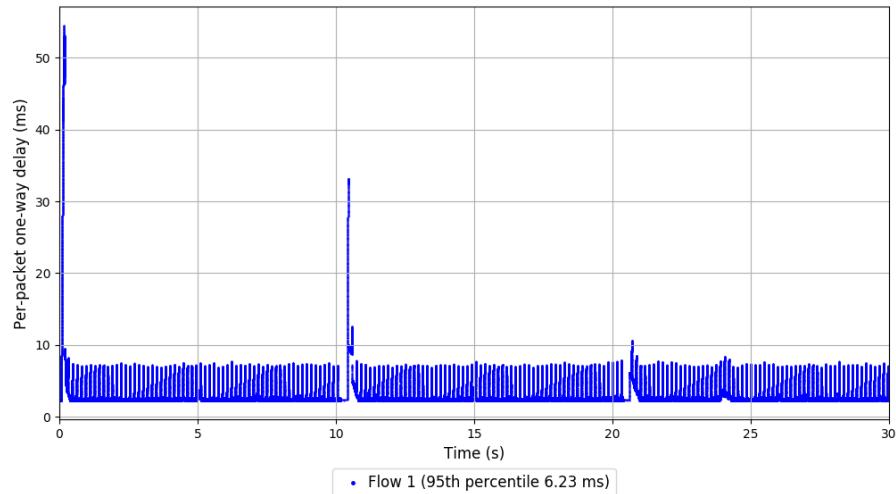
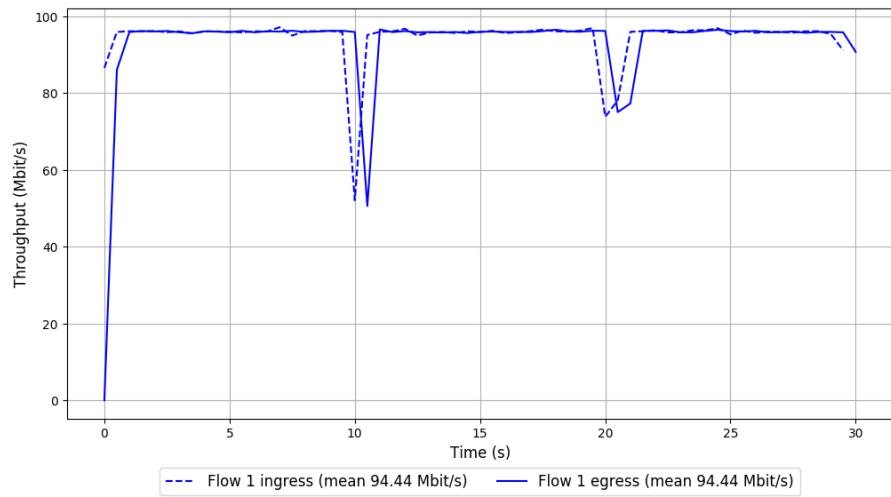


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-19 10:00:48
End at: 2019-03-19 10:01:18
Local clock offset: -7.417 ms
Remote clock offset: 0.457 ms

# Below is generated by plot.py at 2019-03-19 10:40:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 6.228 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 6.228 ms
Loss rate: 0.02%
```

Run 4: Report of FillP-Sheep — Data Link

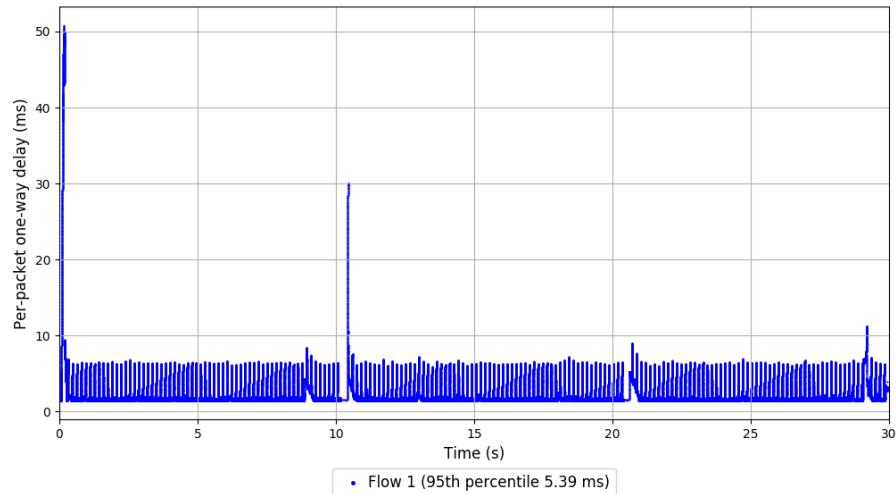
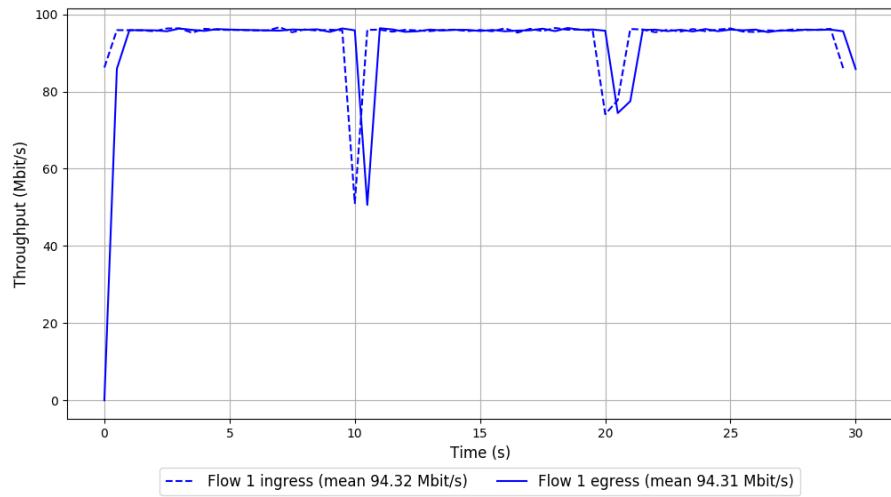


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-19 10:24:32
End at: 2019-03-19 10:25:02
Local clock offset: -7.154 ms
Remote clock offset: 0.557 ms

# Below is generated by plot.py at 2019-03-19 10:41:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 5.388 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 5.388 ms
Loss rate: 0.02%
```

Run 5: Report of FillP-Sheep — Data Link

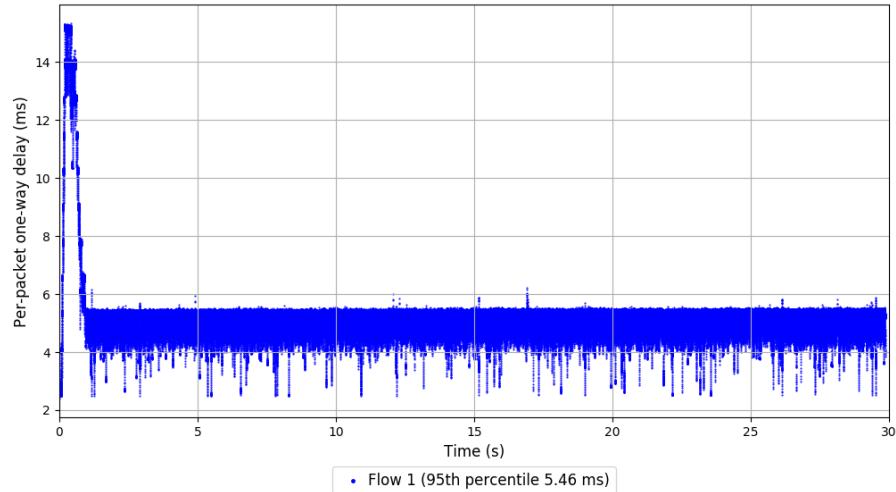
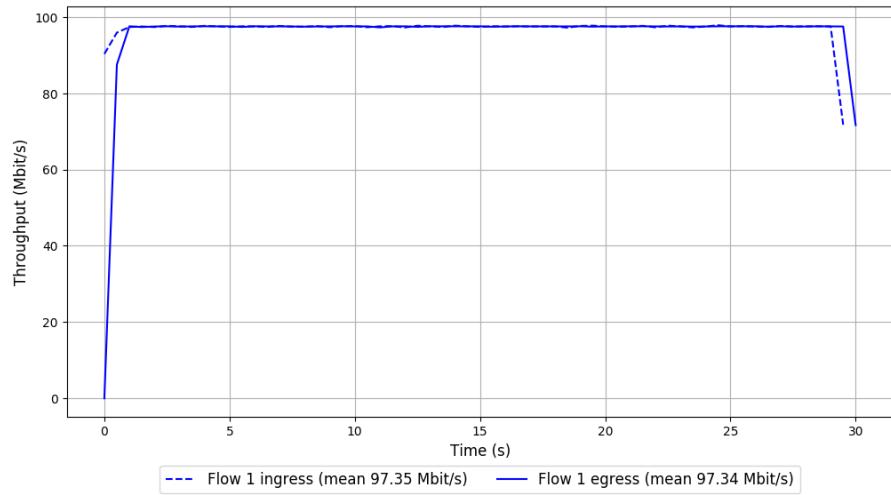


Run 1: Statistics of Indigo

```
Start at: 2019-03-19 08:46:11
End at: 2019-03-19 08:46:41
Local clock offset: -4.469 ms
Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2019-03-19 10:41:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 5.458 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 5.458 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo — Data Link

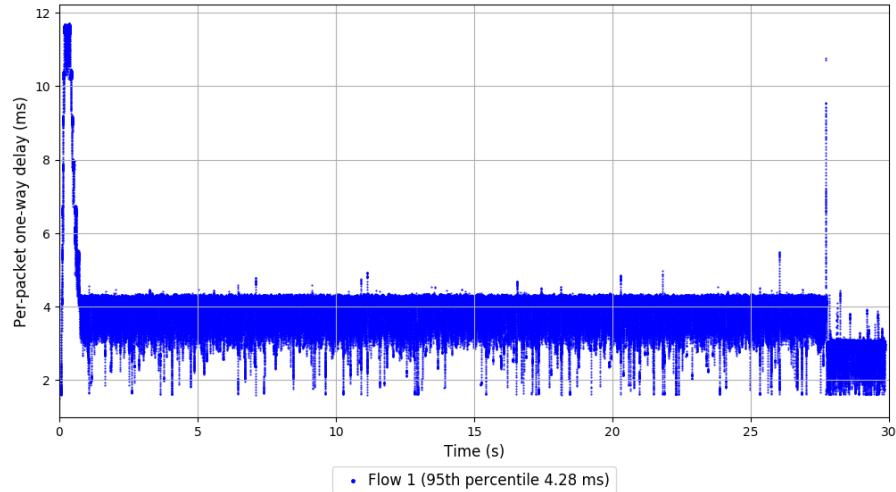
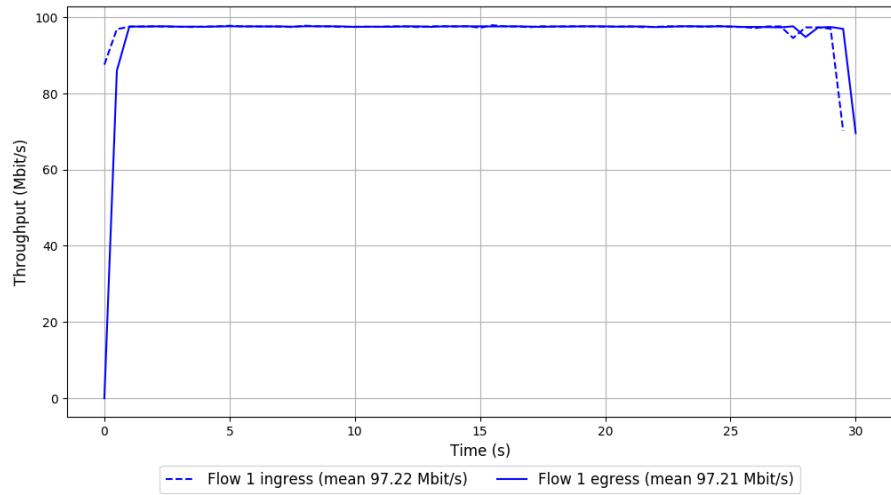


Run 2: Statistics of Indigo

```
Start at: 2019-03-19 09:09:54
End at: 2019-03-19 09:10:24
Local clock offset: -5.658 ms
Remote clock offset: 0.166 ms

# Below is generated by plot.py at 2019-03-19 10:41:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.21 Mbit/s
95th percentile per-packet one-way delay: 4.277 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.21 Mbit/s
95th percentile per-packet one-way delay: 4.277 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo — Data Link

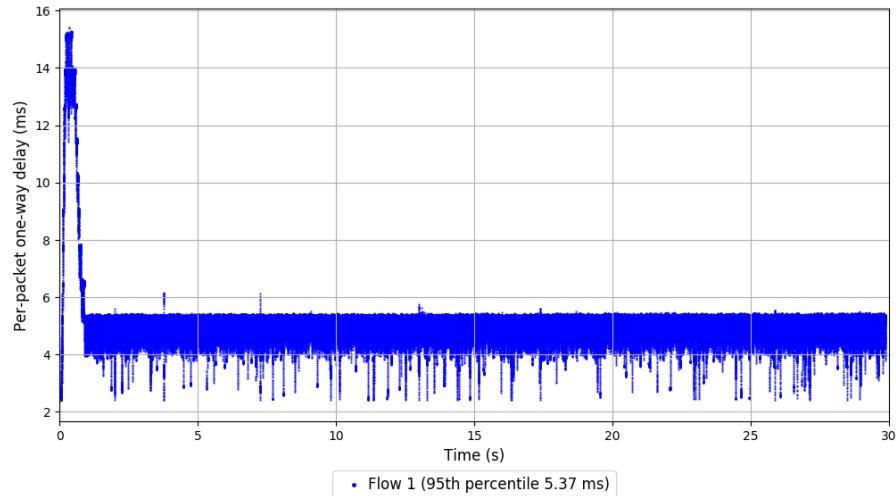
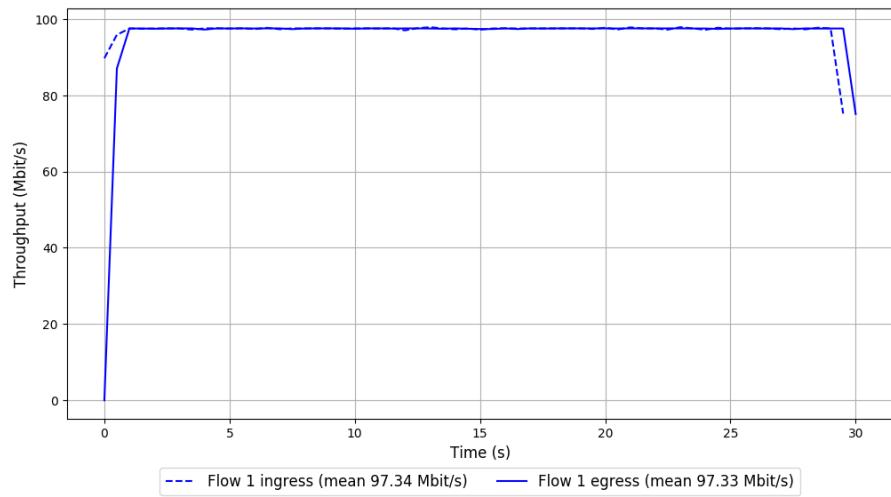


Run 3: Statistics of Indigo

```
Start at: 2019-03-19 09:33:39
End at: 2019-03-19 09:34:09
Local clock offset: -6.705 ms
Remote clock offset: 0.211 ms

# Below is generated by plot.py at 2019-03-19 10:41:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 5.371 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 5.371 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo — Data Link

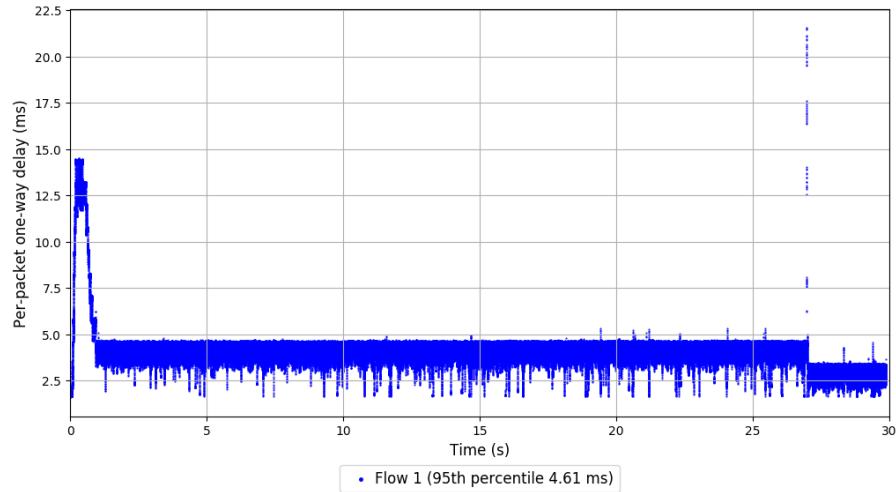
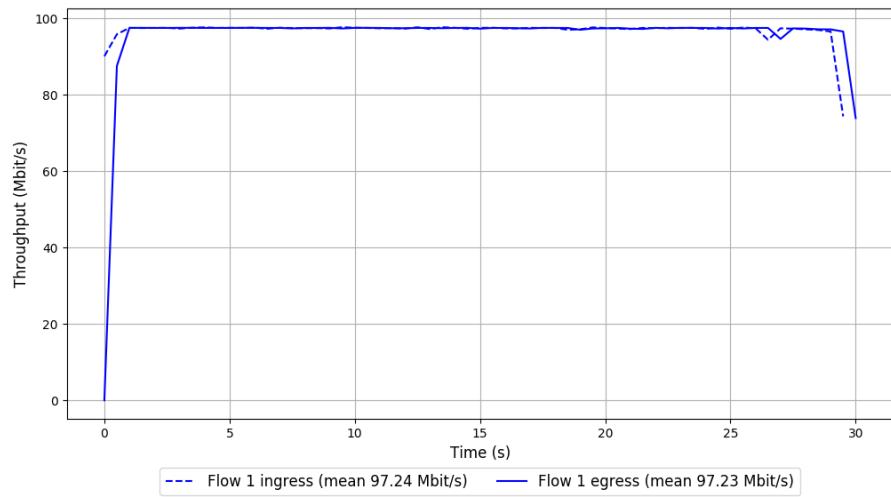


Run 4: Statistics of Indigo

```
Start at: 2019-03-19 09:57:22
End at: 2019-03-19 09:57:52
Local clock offset: -8.104 ms
Remote clock offset: 0.392 ms

# Below is generated by plot.py at 2019-03-19 10:41:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.23 Mbit/s
95th percentile per-packet one-way delay: 4.613 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.23 Mbit/s
95th percentile per-packet one-way delay: 4.613 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo — Data Link

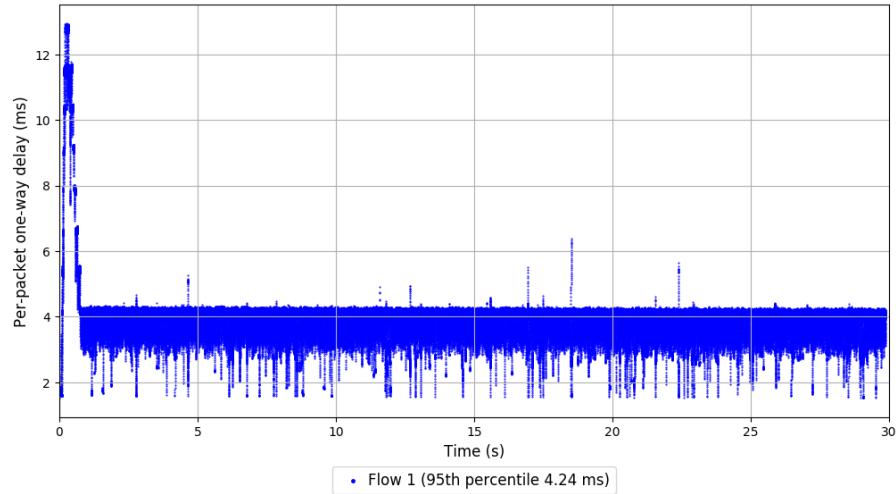
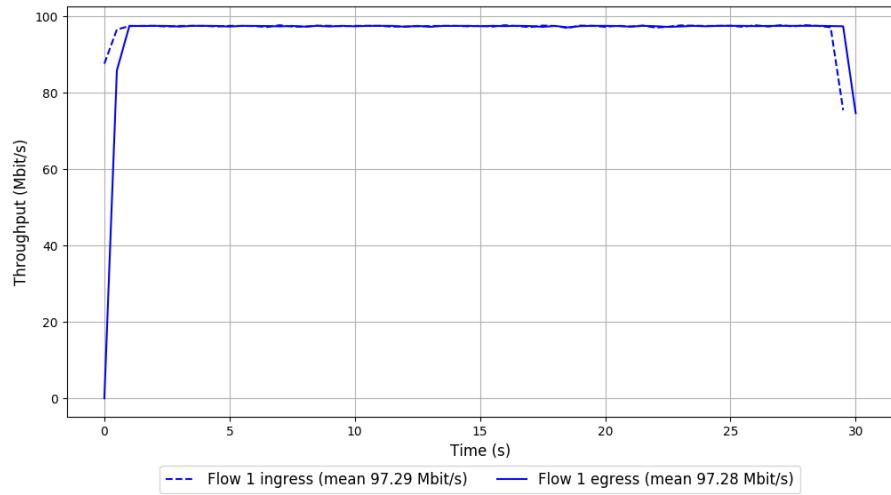


Run 5: Statistics of Indigo

```
Start at: 2019-03-19 10:21:07
End at: 2019-03-19 10:21:37
Local clock offset: -7.586 ms
Remote clock offset: 0.484 ms

# Below is generated by plot.py at 2019-03-19 10:41:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.28 Mbit/s
95th percentile per-packet one-way delay: 4.244 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.28 Mbit/s
95th percentile per-packet one-way delay: 4.244 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo — Data Link

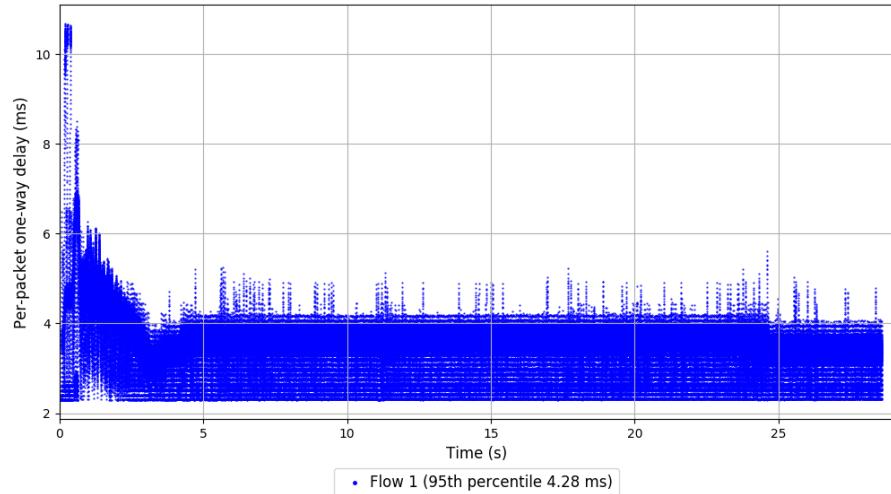
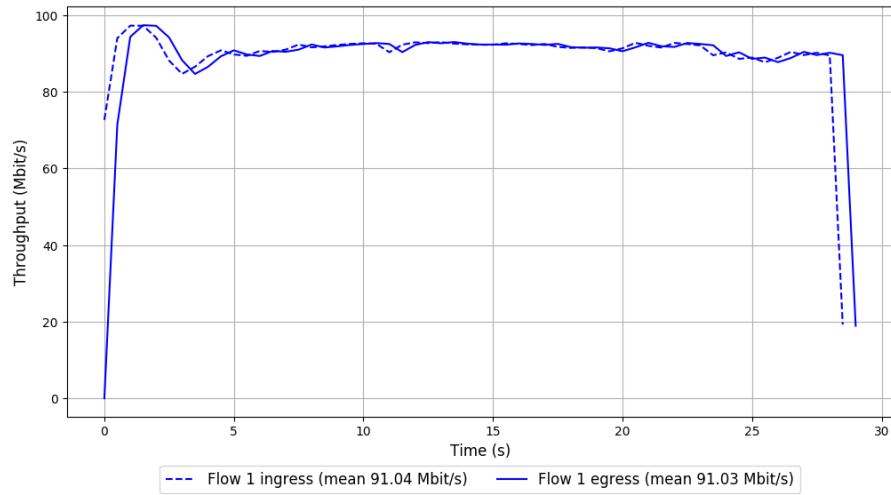


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 08:58:45
End at: 2019-03-19 08:59:15
Local clock offset: -4.886 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2019-03-19 10:41:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.03 Mbit/s
95th percentile per-packet one-way delay: 4.279 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.03 Mbit/s
95th percentile per-packet one-way delay: 4.279 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesC3 — Data Link

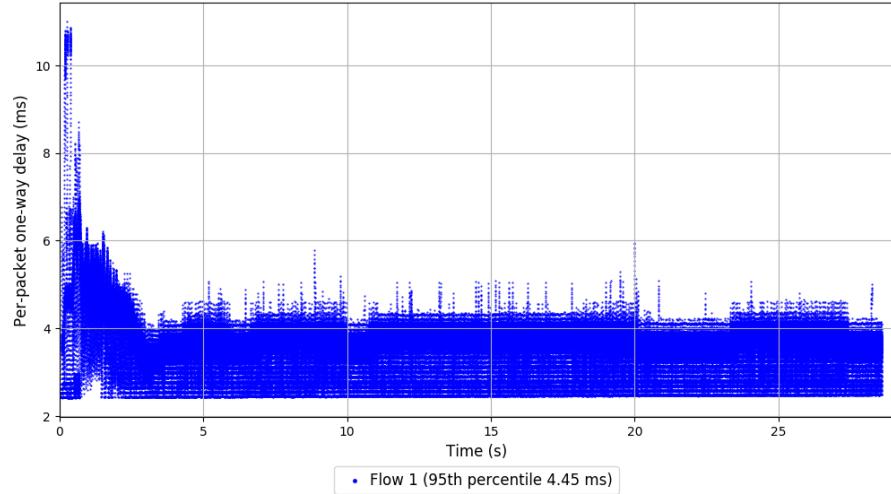
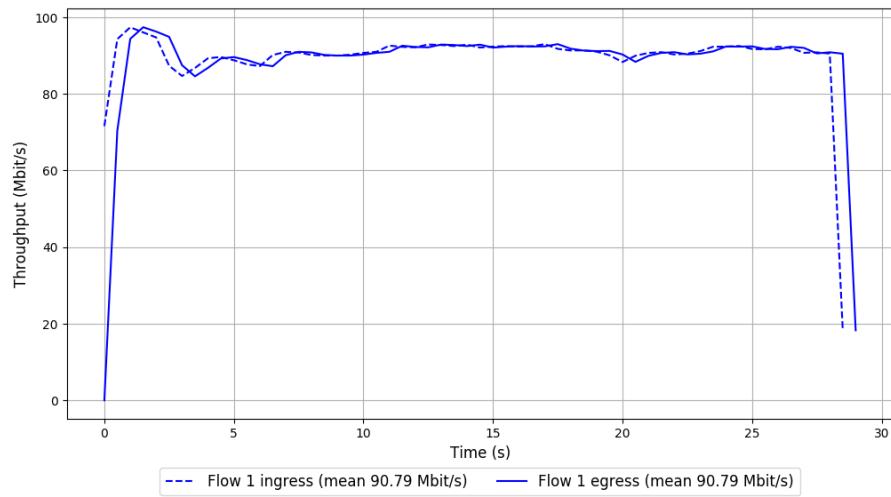


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 09:22:29
End at: 2019-03-19 09:22:59
Local clock offset: -5.857 ms
Remote clock offset: 0.175 ms

# Below is generated by plot.py at 2019-03-19 10:41:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.79 Mbit/s
95th percentile per-packet one-way delay: 4.446 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.79 Mbit/s
95th percentile per-packet one-way delay: 4.446 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesC3 — Data Link

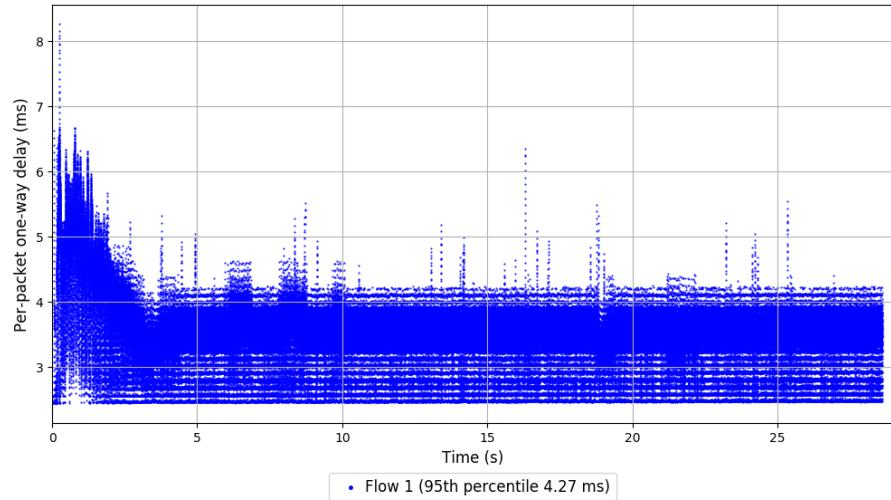
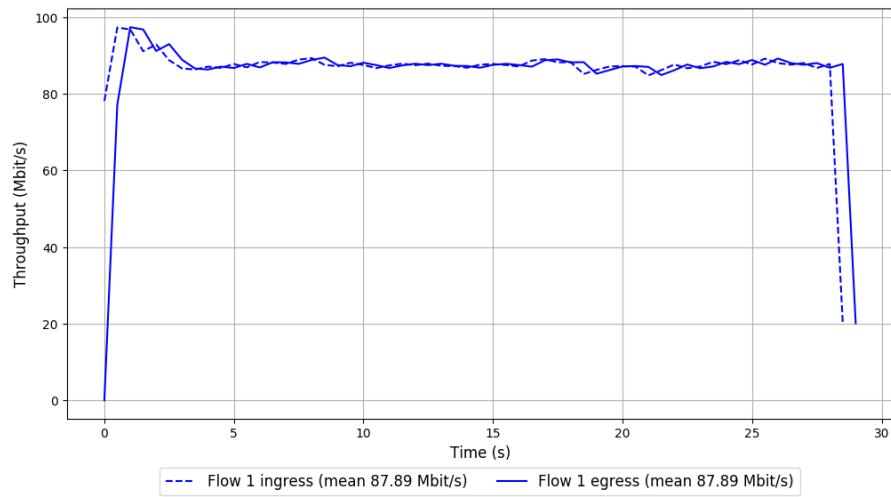


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 09:46:13
End at: 2019-03-19 09:46:43
Local clock offset: -7.042 ms
Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2019-03-19 10:41:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.89 Mbit/s
95th percentile per-packet one-way delay: 4.272 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.89 Mbit/s
95th percentile per-packet one-way delay: 4.272 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesC3 — Data Link

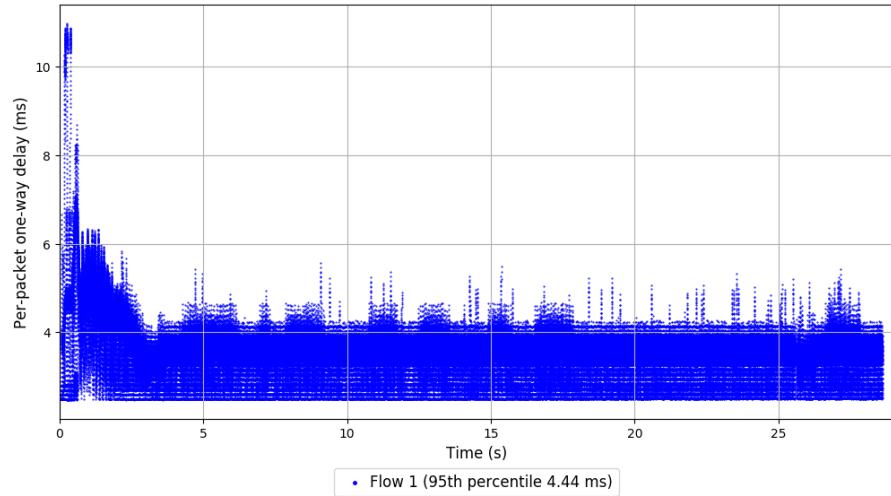
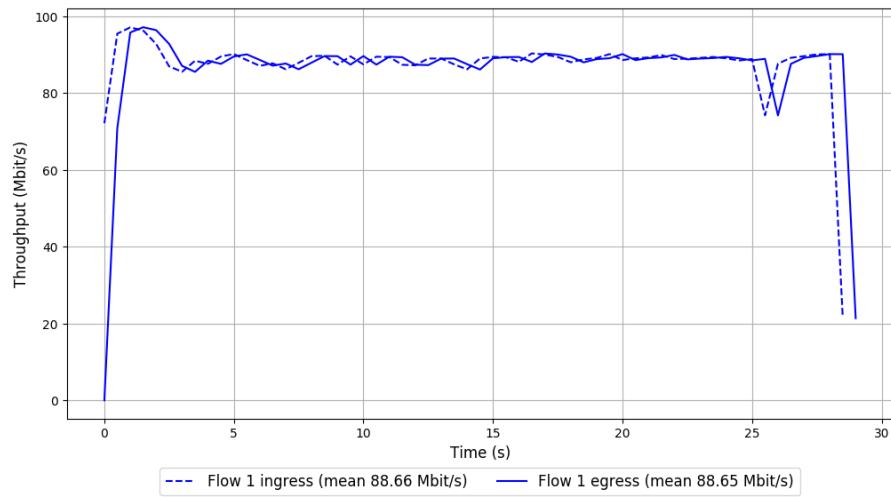


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 10:09:56
End at: 2019-03-19 10:10:26
Local clock offset: -7.618 ms
Remote clock offset: 0.366 ms

# Below is generated by plot.py at 2019-03-19 10:41:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.65 Mbit/s
95th percentile per-packet one-way delay: 4.439 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.65 Mbit/s
95th percentile per-packet one-way delay: 4.439 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesC3 — Data Link

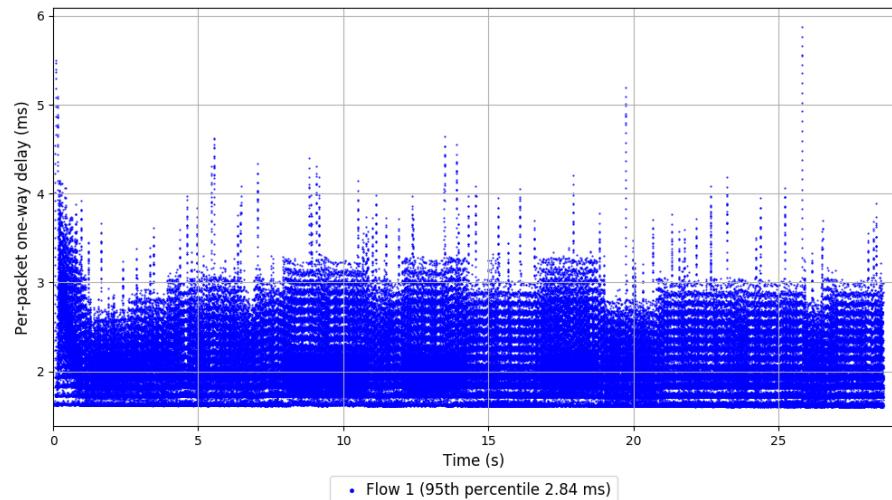
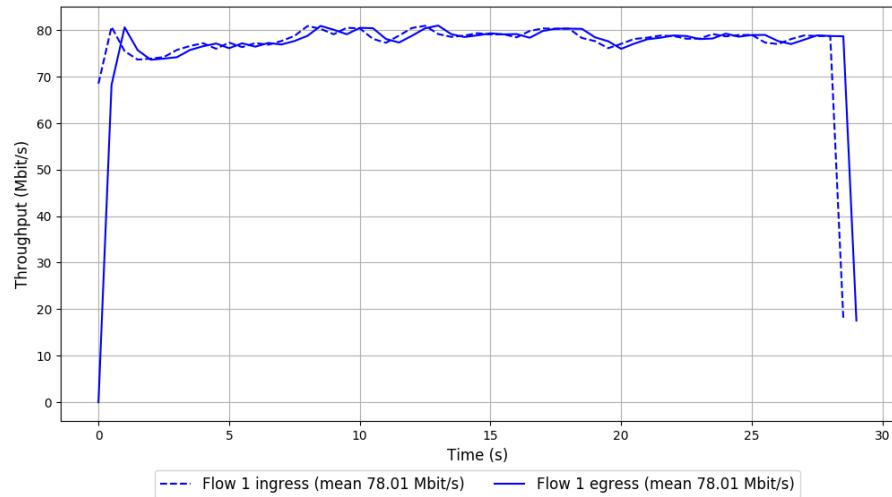


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 10:33:40
End at: 2019-03-19 10:34:10
Local clock offset: -6.605 ms
Remote clock offset: 0.511 ms

# Below is generated by plot.py at 2019-03-19 10:42:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.01 Mbit/s
95th percentile per-packet one-way delay: 2.841 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 78.01 Mbit/s
95th percentile per-packet one-way delay: 2.841 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesC3 — Data Link

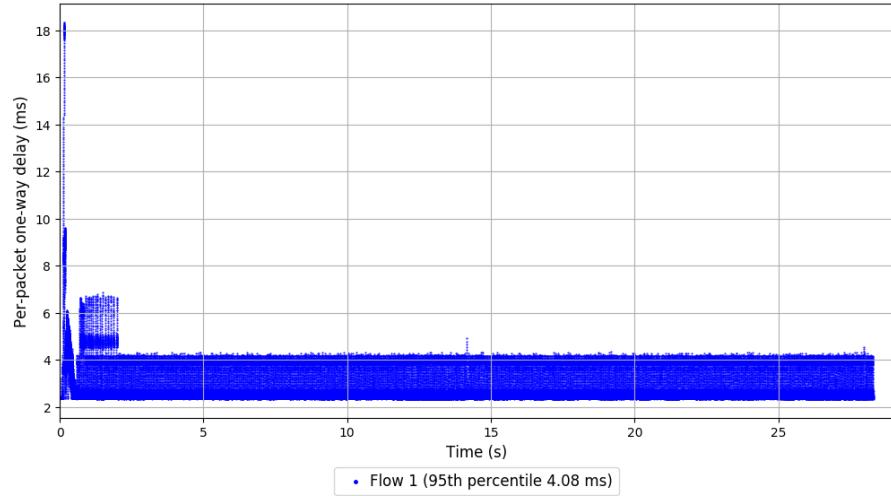
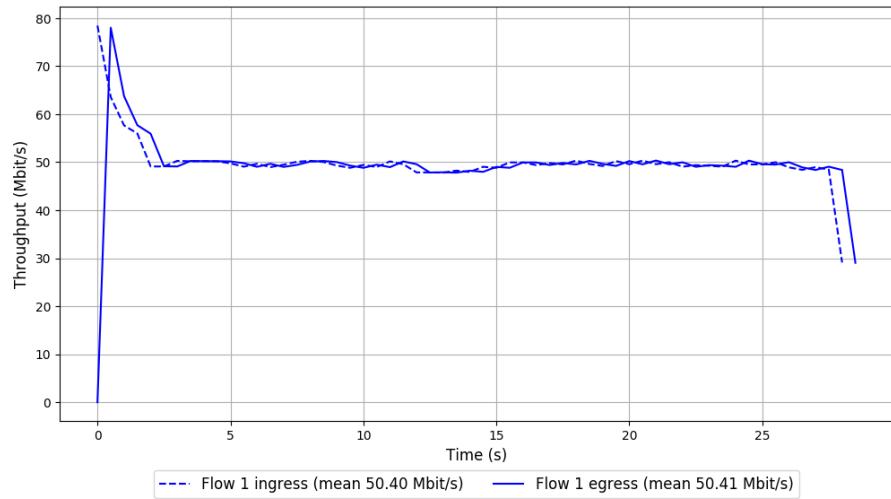


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-03-19 08:38:23
End at: 2019-03-19 08:38:53
Local clock offset: -4.549 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-03-19 10:42:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.41 Mbit/s
95th percentile per-packet one-way delay: 4.083 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.41 Mbit/s
95th percentile per-packet one-way delay: 4.083 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesC5 — Data Link

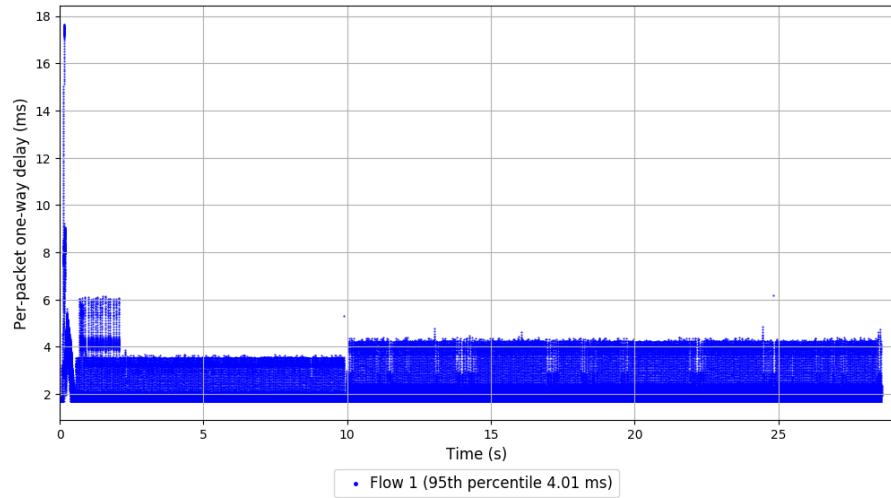
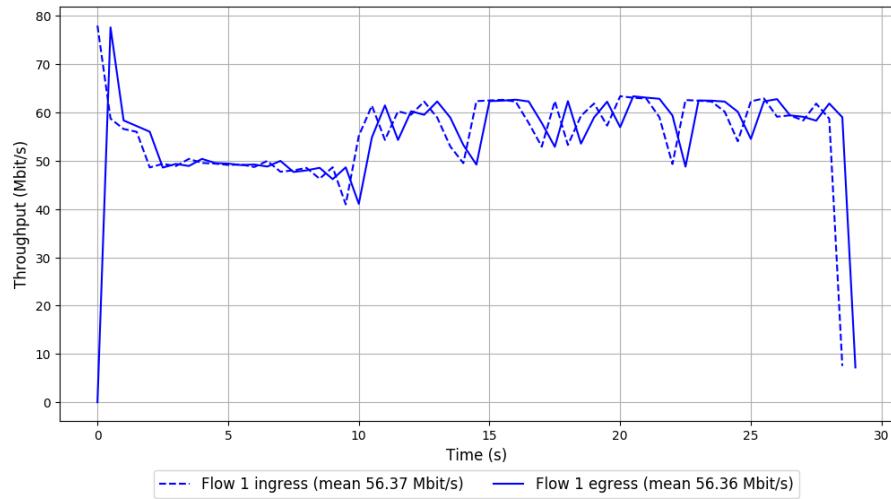


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 09:02:08
End at: 2019-03-19 09:02:38
Local clock offset: -5.616 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-03-19 10:42:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.36 Mbit/s
95th percentile per-packet one-way delay: 4.008 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 56.36 Mbit/s
95th percentile per-packet one-way delay: 4.008 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesC5 — Data Link

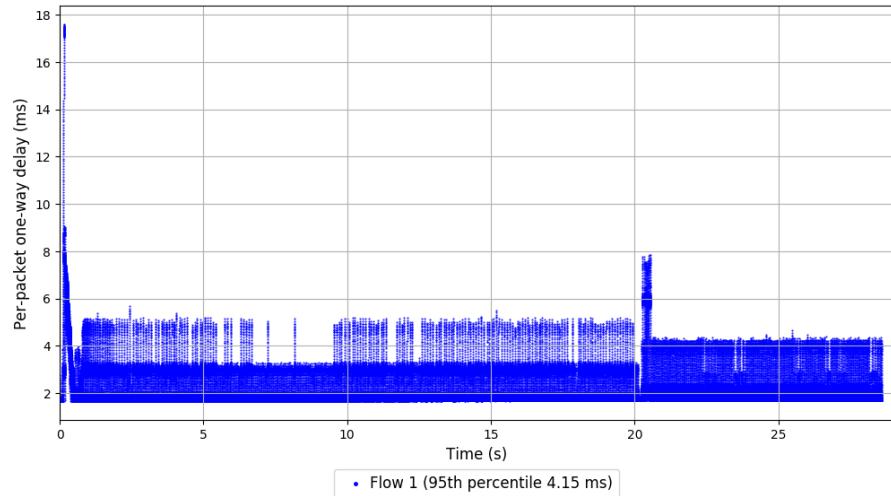
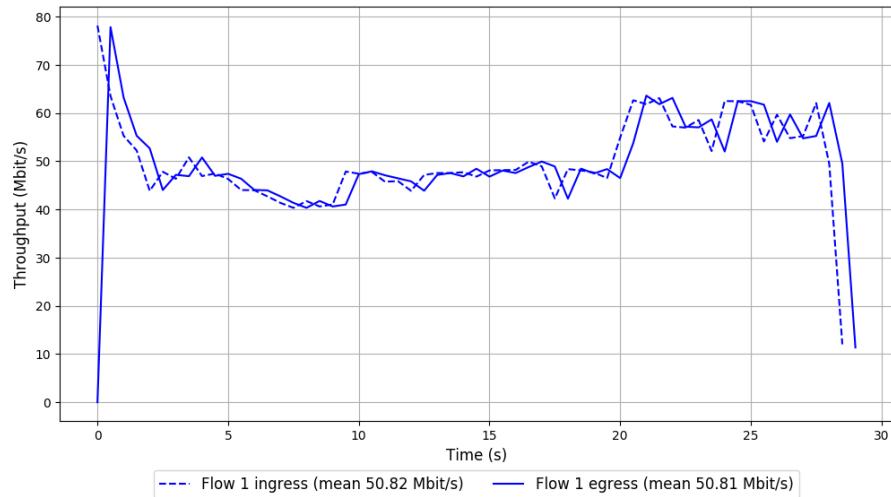


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 09:25:52
End at: 2019-03-19 09:26:22
Local clock offset: -6.963 ms
Remote clock offset: 0.17 ms

# Below is generated by plot.py at 2019-03-19 10:42:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.81 Mbit/s
95th percentile per-packet one-way delay: 4.151 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.81 Mbit/s
95th percentile per-packet one-way delay: 4.151 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesC5 — Data Link

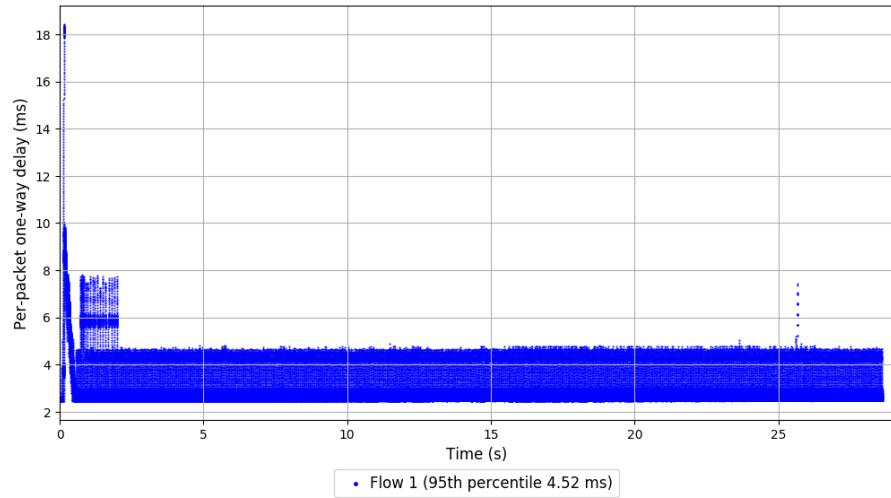
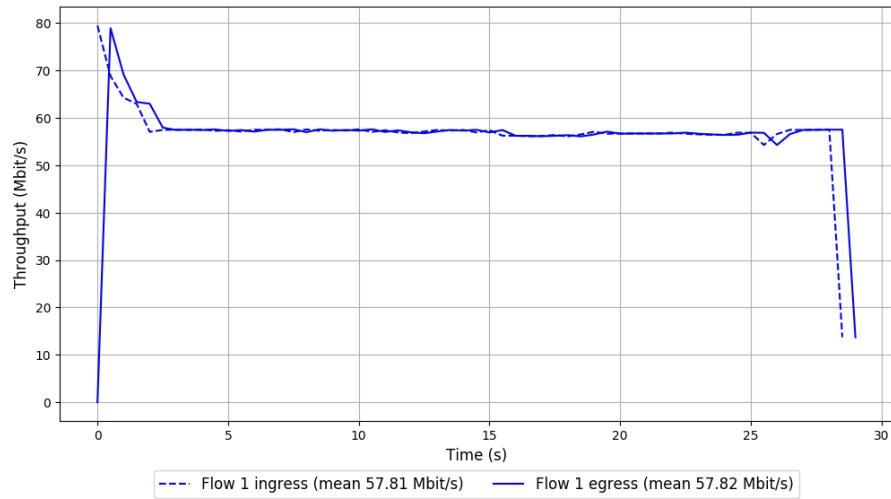


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 09:49:36
End at: 2019-03-19 09:50:06
Local clock offset: -7.126 ms
Remote clock offset: 0.31 ms

# Below is generated by plot.py at 2019-03-19 10:42:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.82 Mbit/s
95th percentile per-packet one-way delay: 4.521 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 57.82 Mbit/s
95th percentile per-packet one-way delay: 4.521 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC5 — Data Link

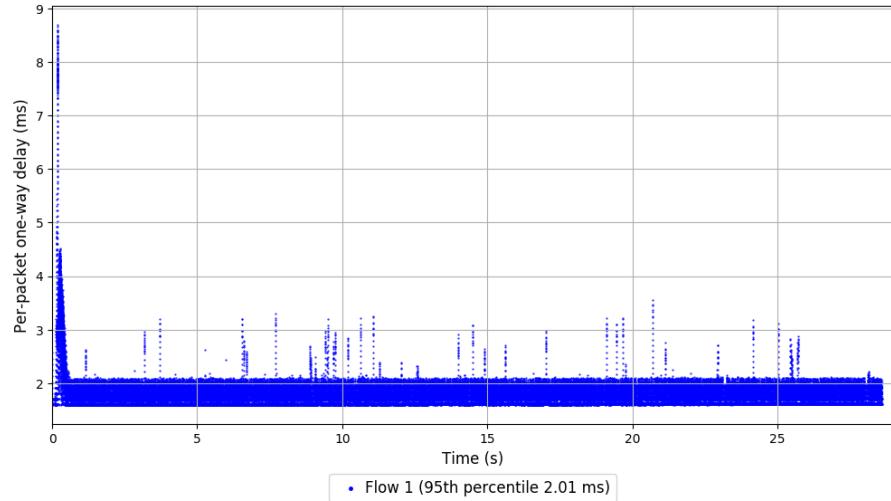
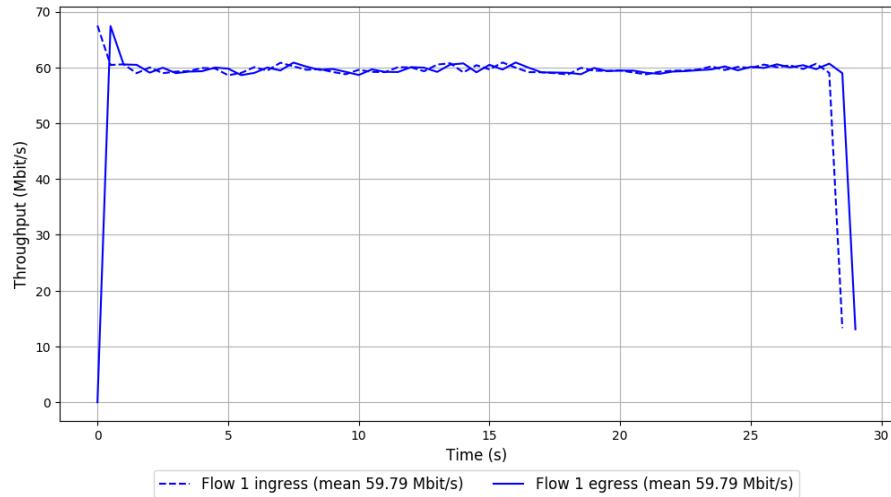


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 10:13:19
End at: 2019-03-19 10:13:49
Local clock offset: -8.451 ms
Remote clock offset: 0.497 ms

# Below is generated by plot.py at 2019-03-19 10:42:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.79 Mbit/s
95th percentile per-packet one-way delay: 2.014 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 59.79 Mbit/s
95th percentile per-packet one-way delay: 2.014 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesC5 — Data Link

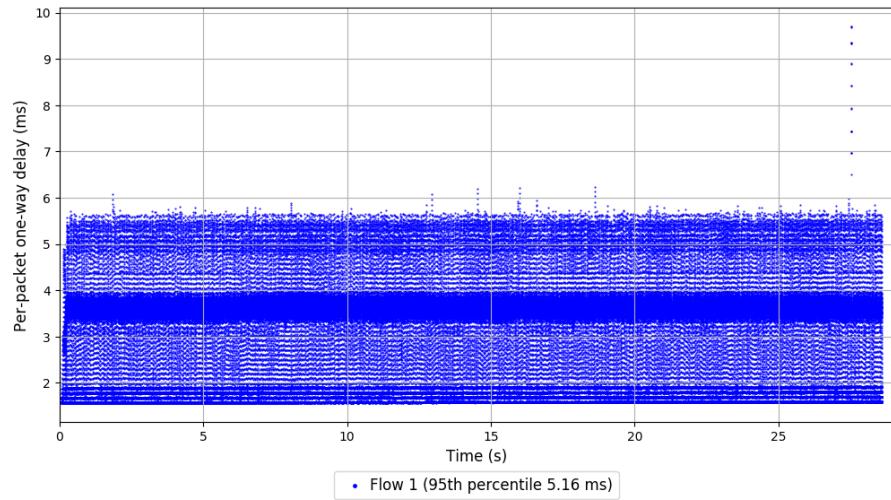
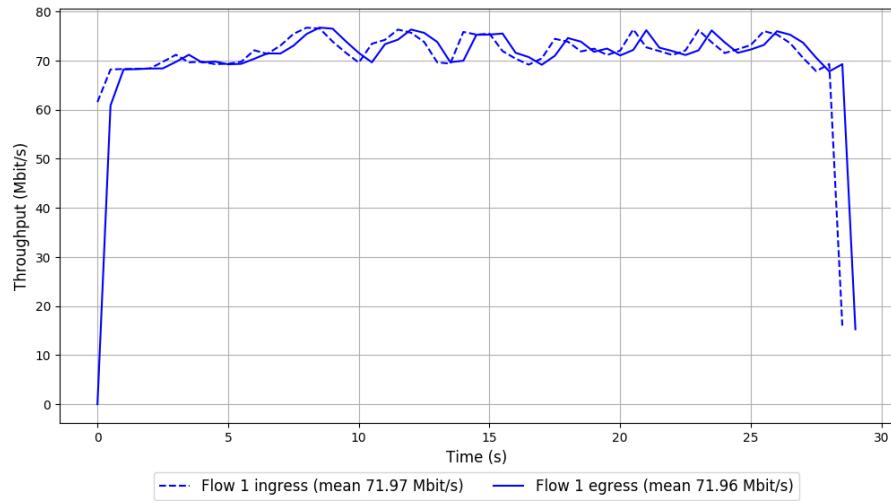


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 08:47:20
End at: 2019-03-19 08:47:50
Local clock offset: -5.363 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-03-19 10:42:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.96 Mbit/s
95th percentile per-packet one-way delay: 5.163 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 71.96 Mbit/s
95th percentile per-packet one-way delay: 5.163 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesD — Data Link

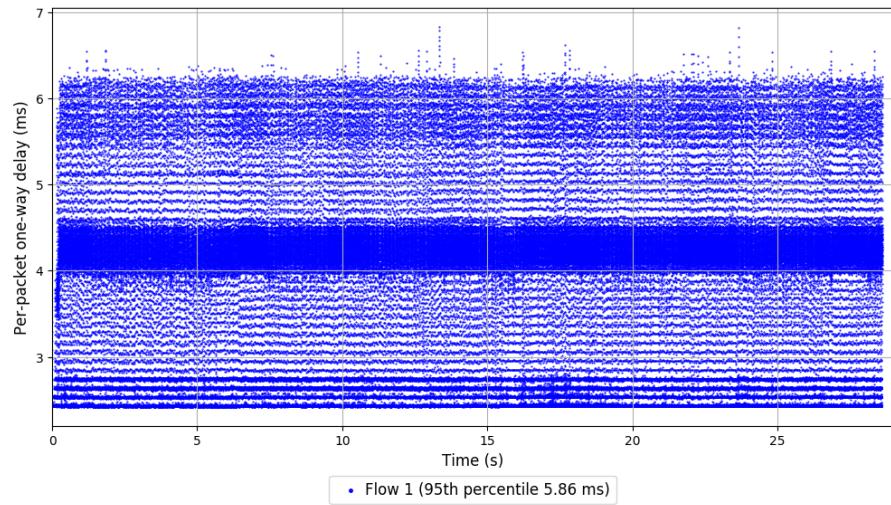
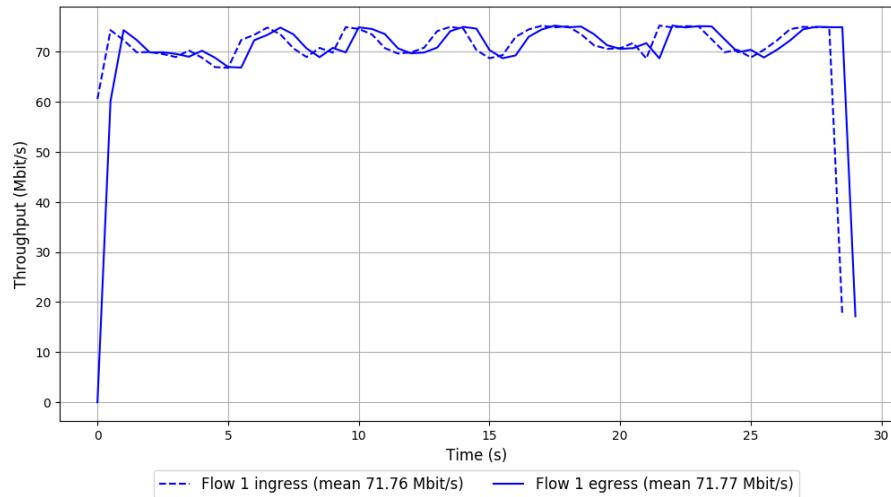


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 09:11:03
End at: 2019-03-19 09:11:33
Local clock offset: -4.901 ms
Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2019-03-19 10:42:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.77 Mbit/s
95th percentile per-packet one-way delay: 5.862 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 71.77 Mbit/s
95th percentile per-packet one-way delay: 5.862 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesD — Data Link

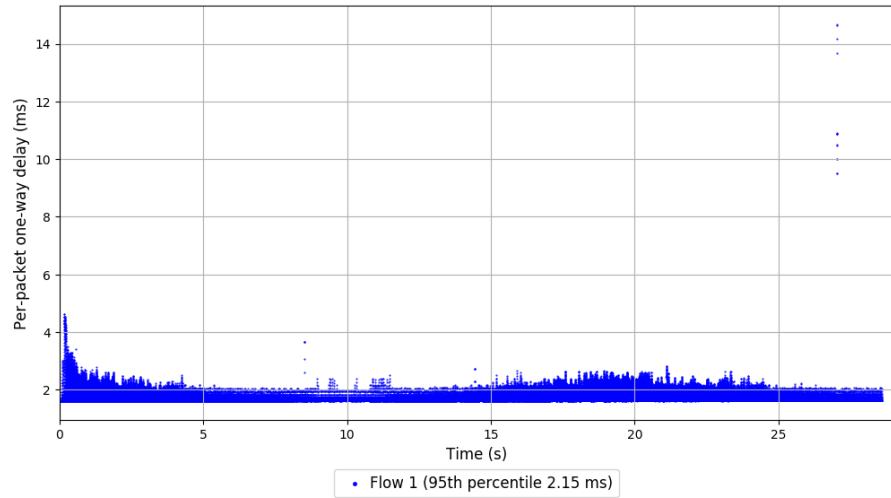
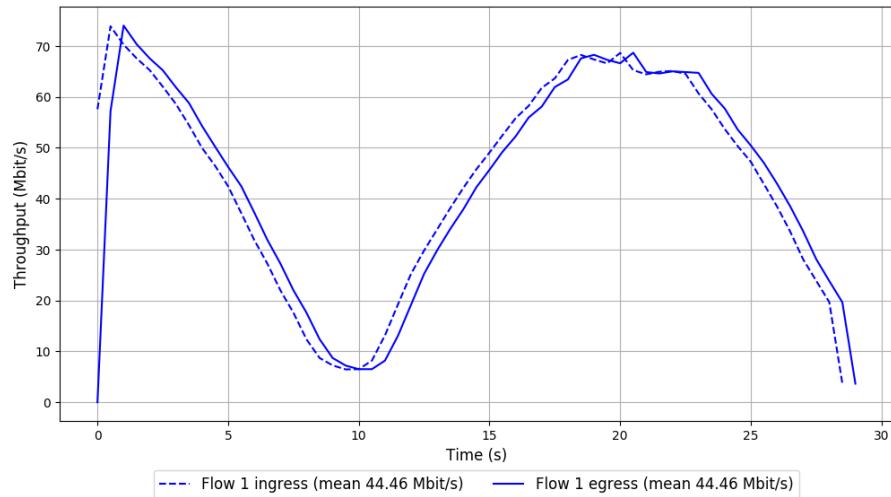


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 09:34:49
End at: 2019-03-19 09:35:19
Local clock offset: -7.428 ms
Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2019-03-19 10:42:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.46 Mbit/s
95th percentile per-packet one-way delay: 2.154 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 44.46 Mbit/s
95th percentile per-packet one-way delay: 2.154 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesD — Data Link

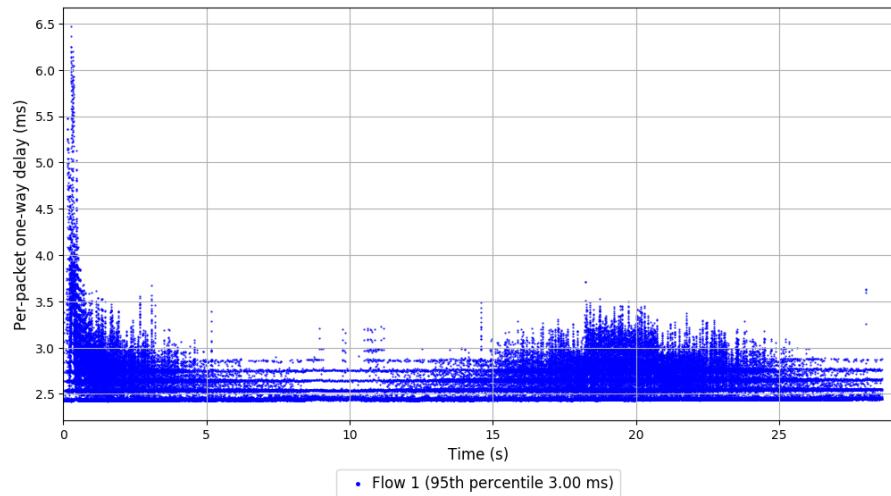
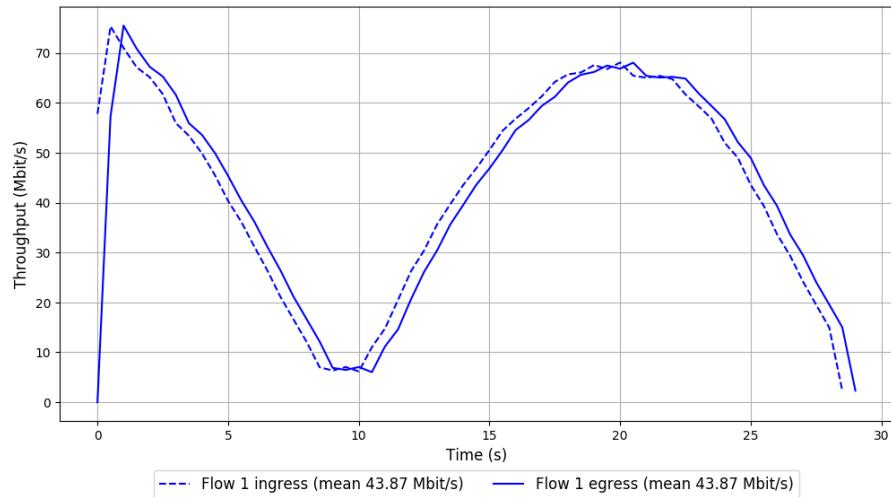


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 09:58:31
End at: 2019-03-19 09:59:01
Local clock offset: -7.346 ms
Remote clock offset: 0.399 ms

# Below is generated by plot.py at 2019-03-19 10:42:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.87 Mbit/s
95th percentile per-packet one-way delay: 2.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.87 Mbit/s
95th percentile per-packet one-way delay: 2.998 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesD — Data Link

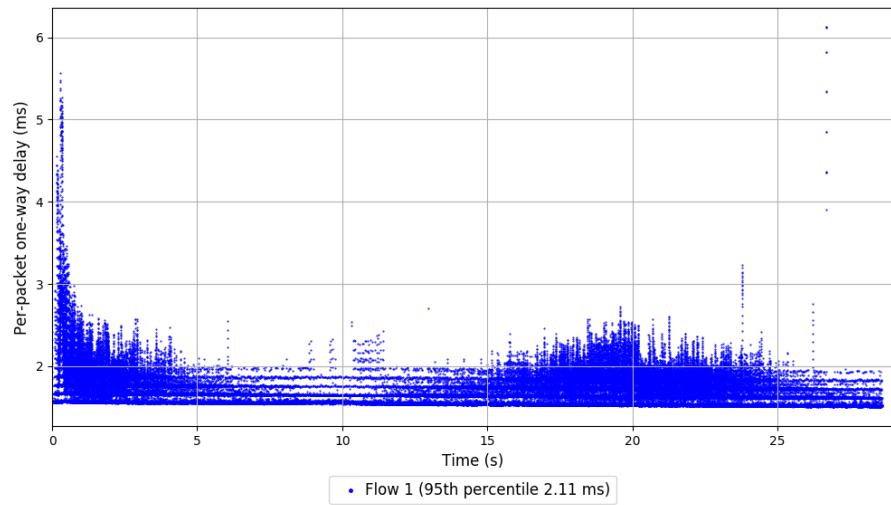
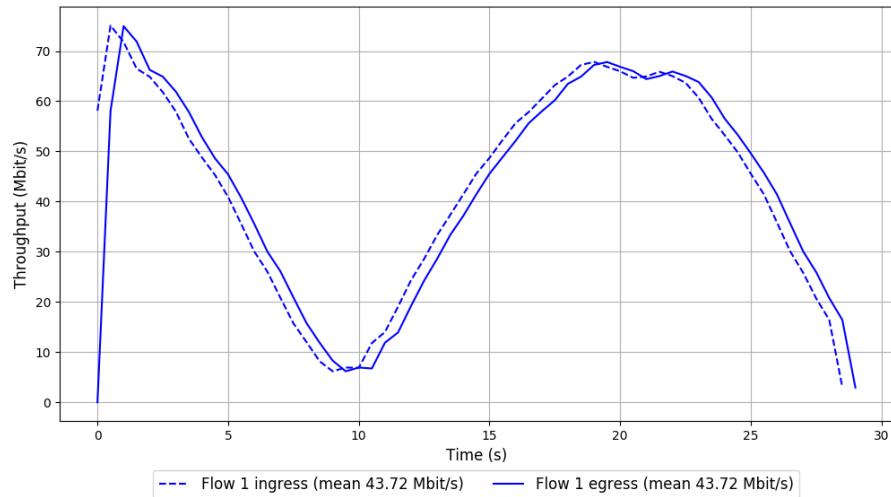


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 10:22:16
End at: 2019-03-19 10:22:46
Local clock offset: -7.407 ms
Remote clock offset: 0.546 ms

# Below is generated by plot.py at 2019-03-19 10:42:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.72 Mbit/s
95th percentile per-packet one-way delay: 2.108 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.72 Mbit/s
95th percentile per-packet one-way delay: 2.108 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesD — Data Link

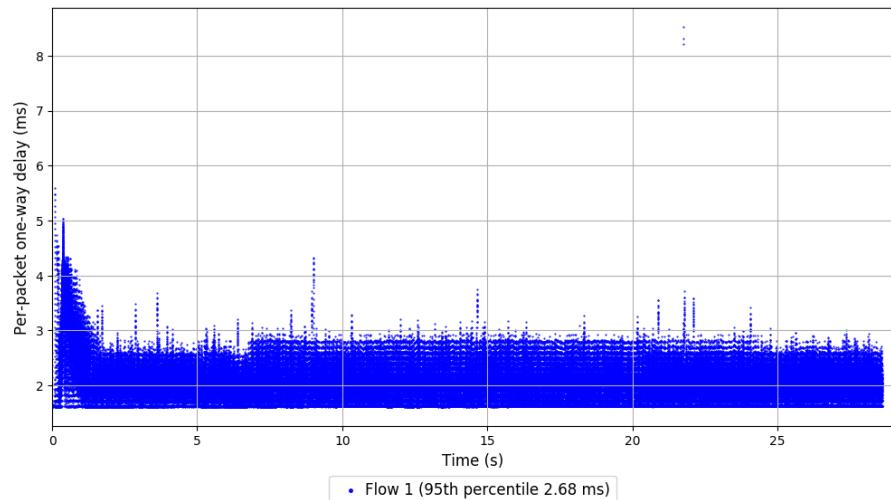
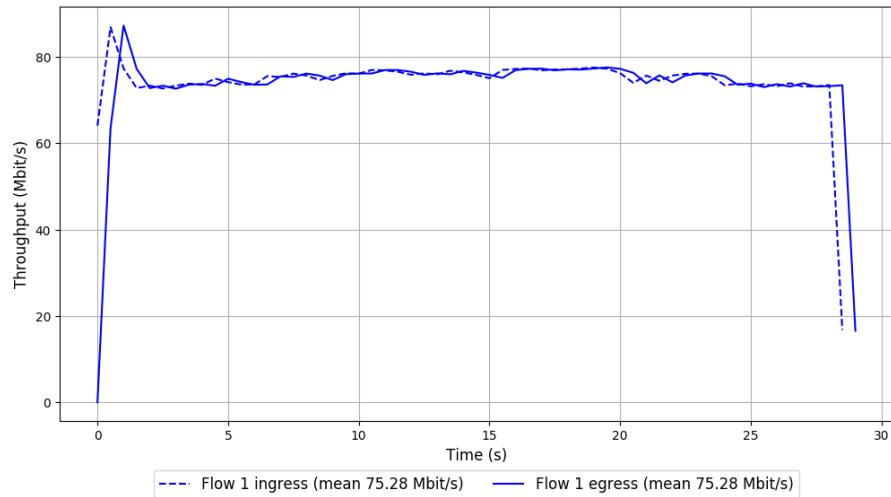


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 08:57:38
End at: 2019-03-19 08:58:08
Local clock offset: -5.572 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2019-03-19 10:43:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.28 Mbit/s
95th percentile per-packet one-way delay: 2.679 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 75.28 Mbit/s
95th percentile per-packet one-way delay: 2.679 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesT — Data Link

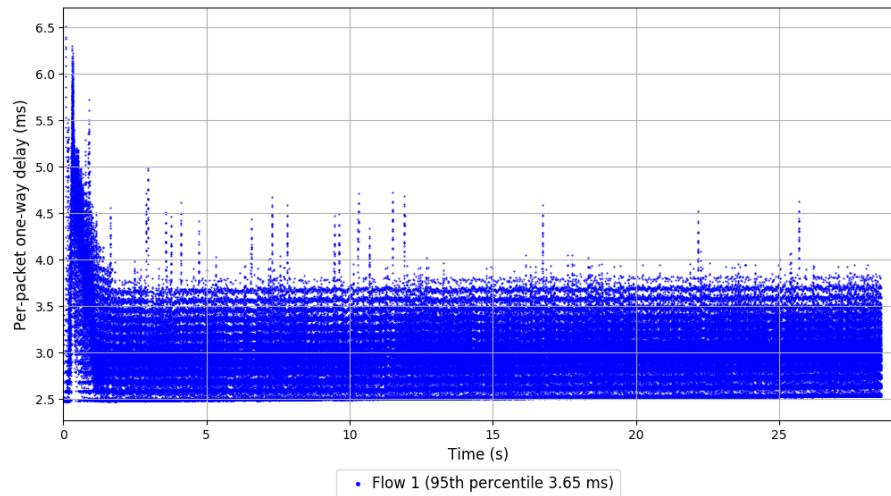
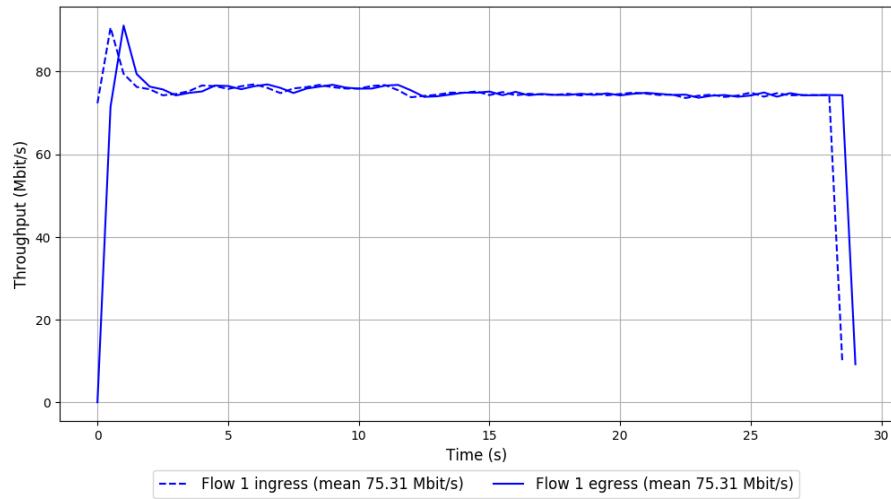


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 09:21:22
End at: 2019-03-19 09:21:52
Local clock offset: -5.686 ms
Remote clock offset: 0.166 ms

# Below is generated by plot.py at 2019-03-19 10:43:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.31 Mbit/s
95th percentile per-packet one-way delay: 3.646 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 75.31 Mbit/s
95th percentile per-packet one-way delay: 3.646 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesT — Data Link

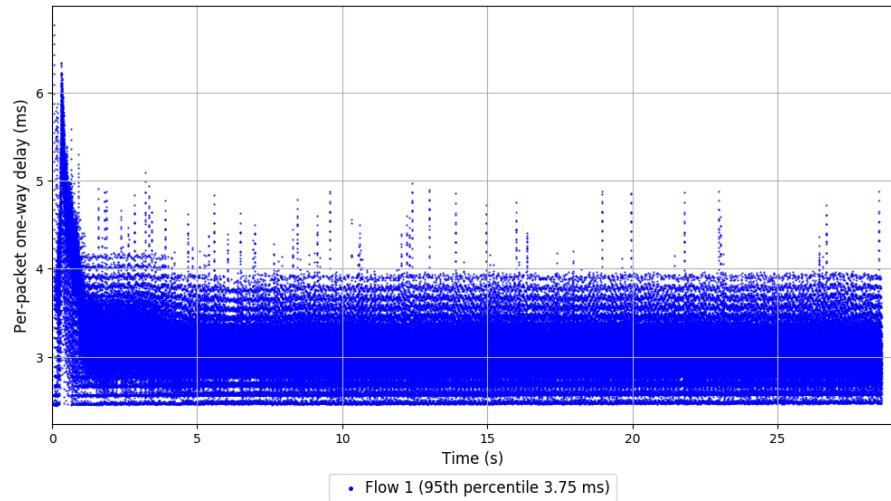
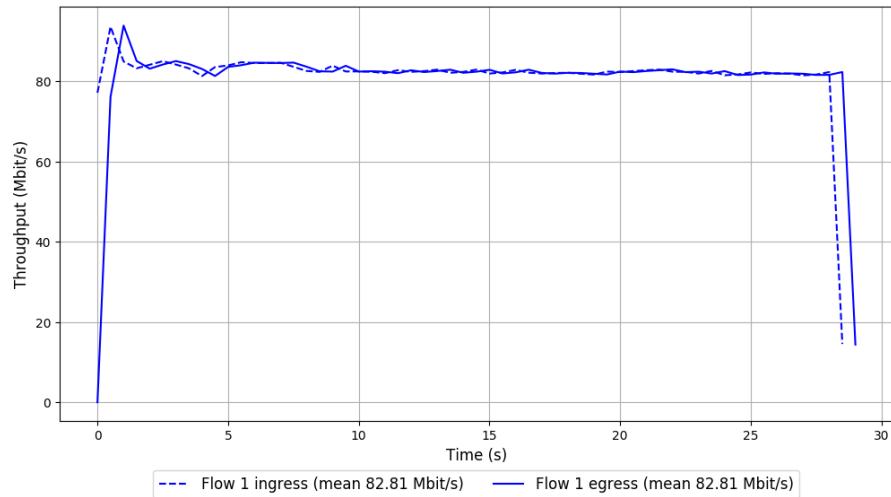


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 09:45:06
End at: 2019-03-19 09:45:36
Local clock offset: -7.025 ms
Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2019-03-19 10:43:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.81 Mbit/s
95th percentile per-packet one-way delay: 3.755 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 82.81 Mbit/s
95th percentile per-packet one-way delay: 3.755 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesT — Data Link

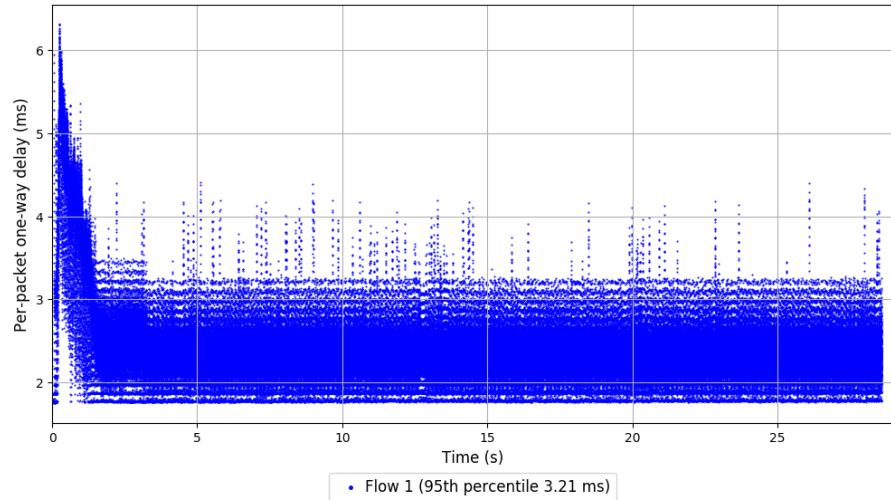
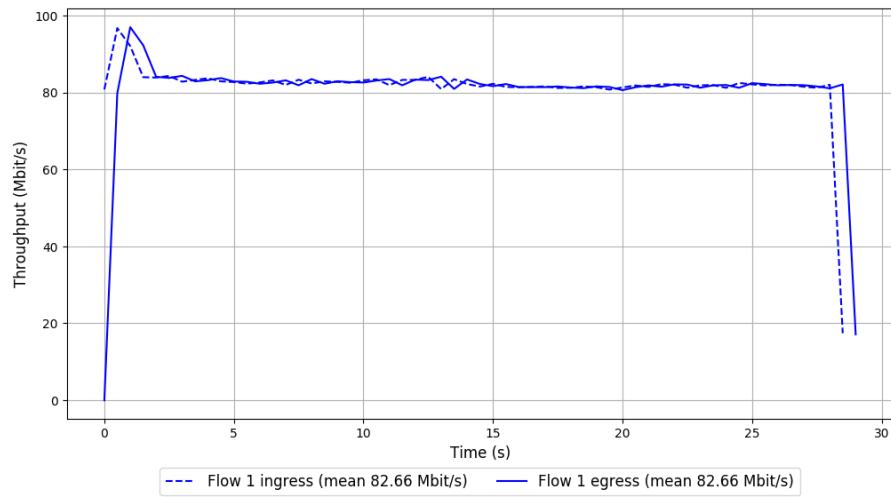


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 10:08:49
End at: 2019-03-19 10:09:19
Local clock offset: -8.334 ms
Remote clock offset: 0.339 ms

# Below is generated by plot.py at 2019-03-19 10:43:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.66 Mbit/s
95th percentile per-packet one-way delay: 3.215 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 82.66 Mbit/s
95th percentile per-packet one-way delay: 3.215 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesT — Data Link

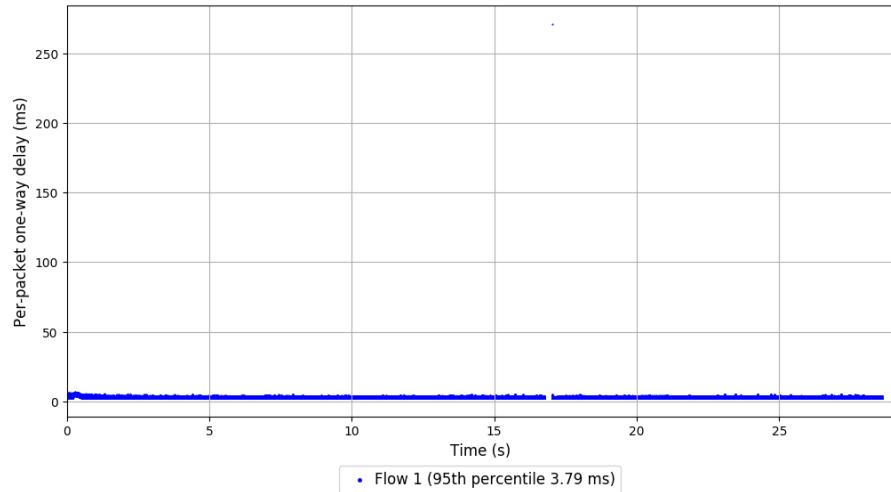
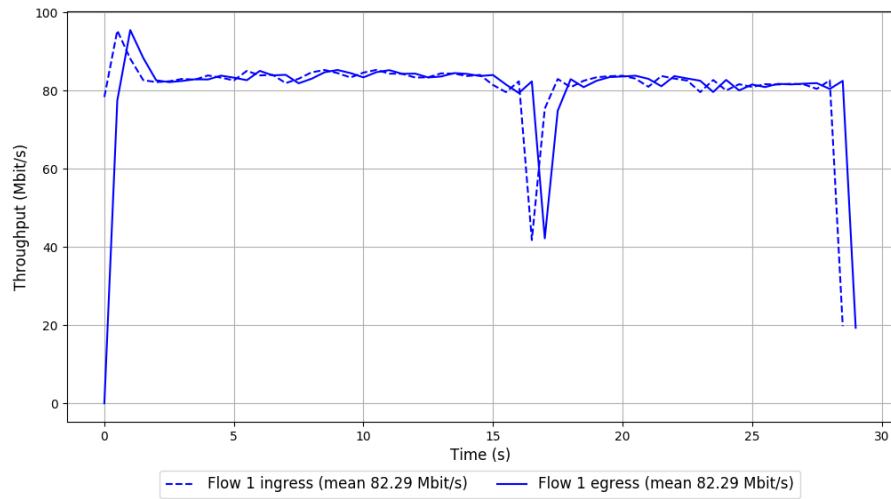


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 10:32:33
End at: 2019-03-19 10:33:03
Local clock offset: -5.843 ms
Remote clock offset: 0.534 ms

# Below is generated by plot.py at 2019-03-19 10:43:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.29 Mbit/s
95th percentile per-packet one-way delay: 3.795 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 82.29 Mbit/s
95th percentile per-packet one-way delay: 3.795 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesT — Data Link

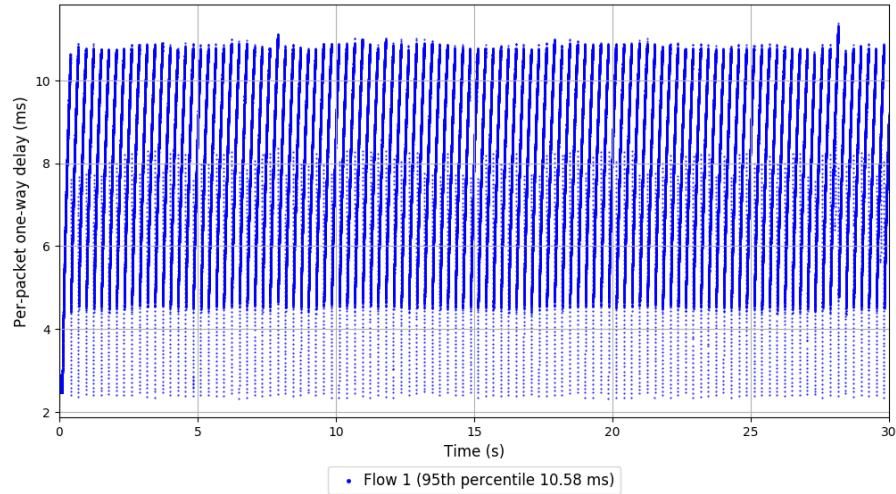
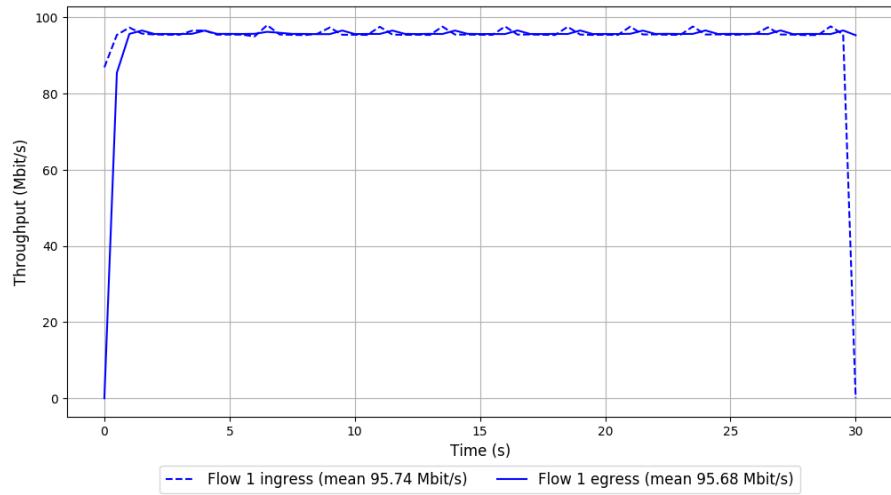


Run 1: Statistics of LEDBAT

```
Start at: 2019-03-19 08:36:08
End at: 2019-03-19 08:36:38
Local clock offset: -4.548 ms
Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2019-03-19 10:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 10.579 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 10.579 ms
Loss rate: 0.08%
```

Run 1: Report of LEDBAT — Data Link

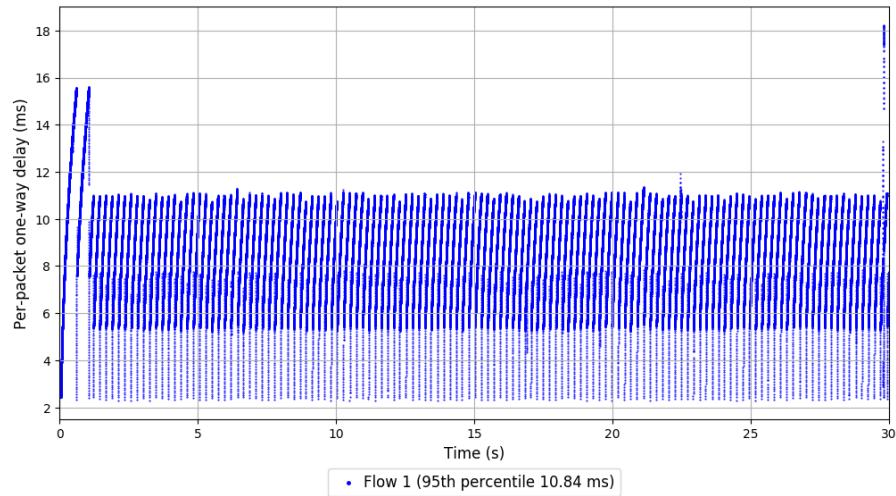
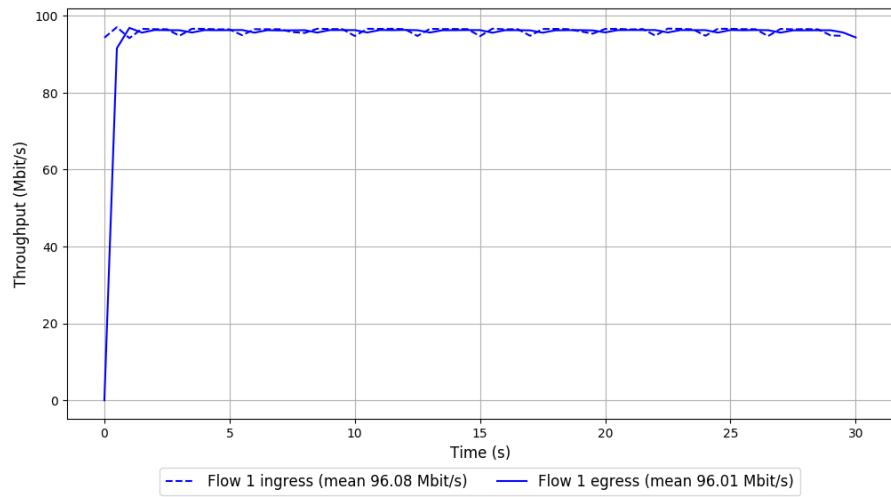


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-19 08:59:53
End at: 2019-03-19 09:00:23
Local clock offset: -4.835 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-03-19 10:43:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 10.843 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 10.843 ms
Loss rate: 0.08%
```

Run 2: Report of LEDBAT — Data Link

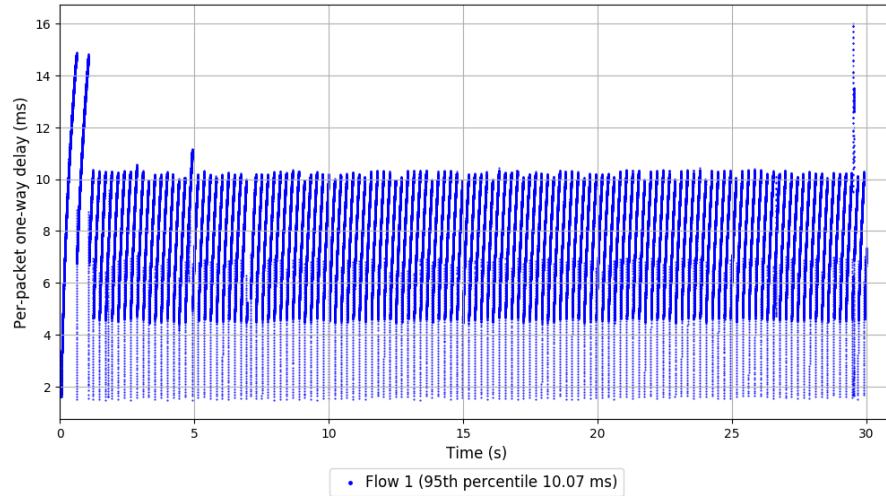
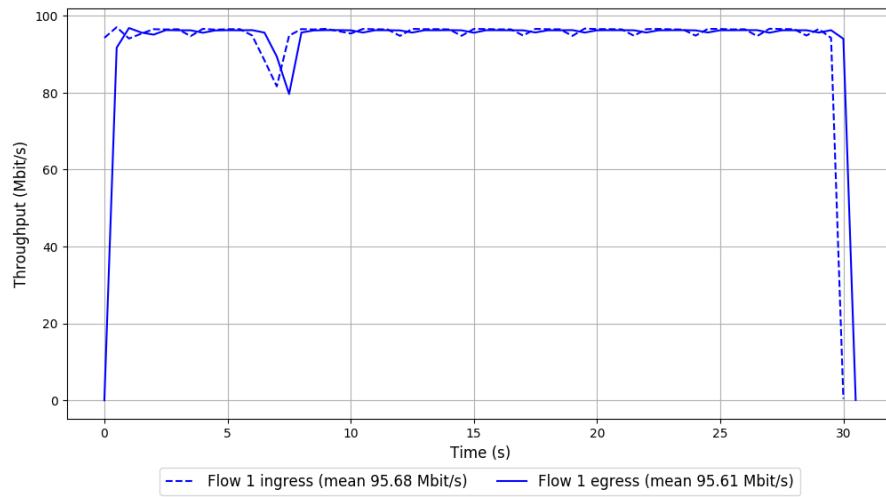


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-19 09:23:37
End at: 2019-03-19 09:24:07
Local clock offset: -6.787 ms
Remote clock offset: 0.179 ms

# Below is generated by plot.py at 2019-03-19 10:43:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 10.071 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 10.071 ms
Loss rate: 0.08%
```

Run 3: Report of LEDBAT — Data Link

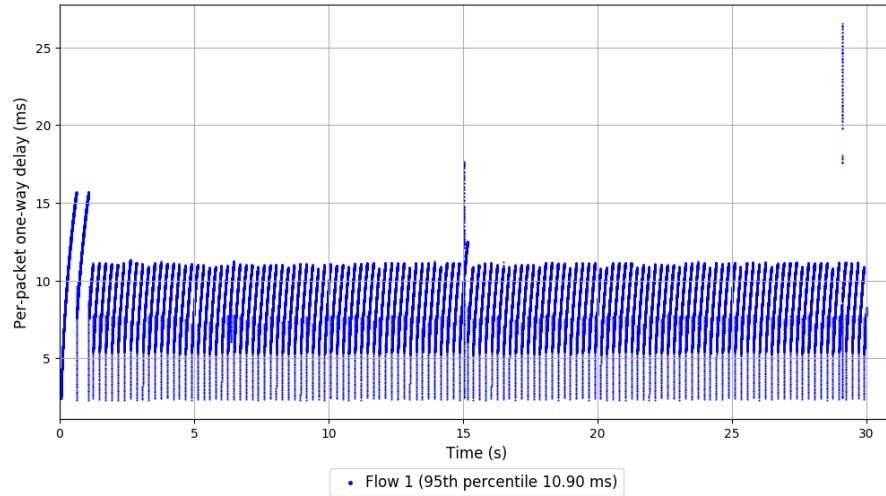
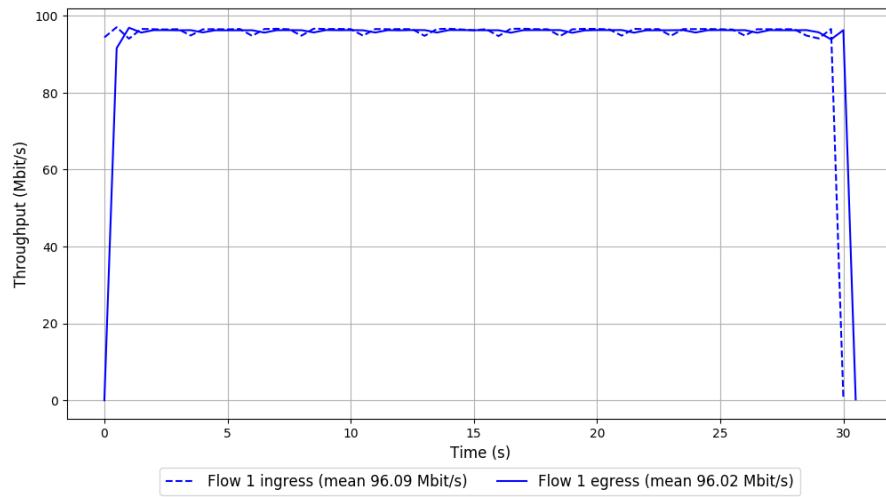


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-19 09:47:21
End at: 2019-03-19 09:47:51
Local clock offset: -7.075 ms
Remote clock offset: 0.306 ms

# Below is generated by plot.py at 2019-03-19 10:44:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 10.902 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 10.902 ms
Loss rate: 0.08%
```

Run 4: Report of LEDBAT — Data Link

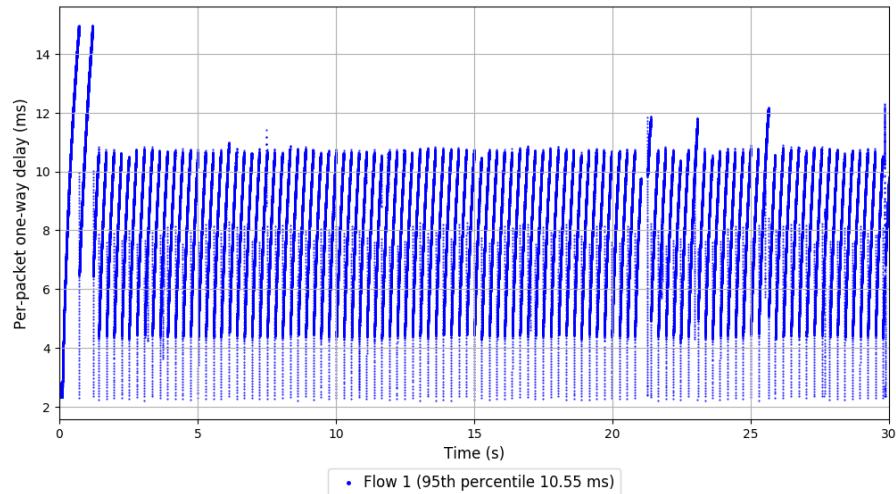
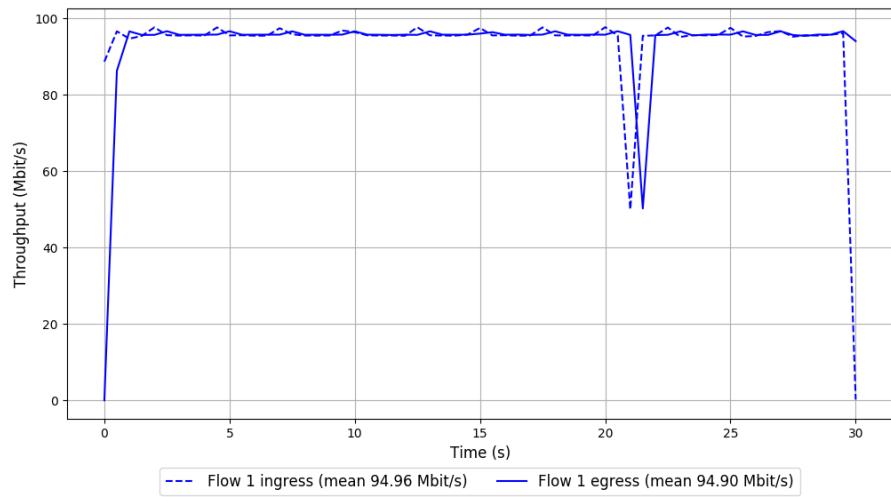


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-19 10:11:04
End at: 2019-03-19 10:11:34
Local clock offset: -7.651 ms
Remote clock offset: 0.487 ms

# Below is generated by plot.py at 2019-03-19 10:44:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 10.555 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 10.555 ms
Loss rate: 0.08%
```

Run 5: Report of LEDBAT — Data Link

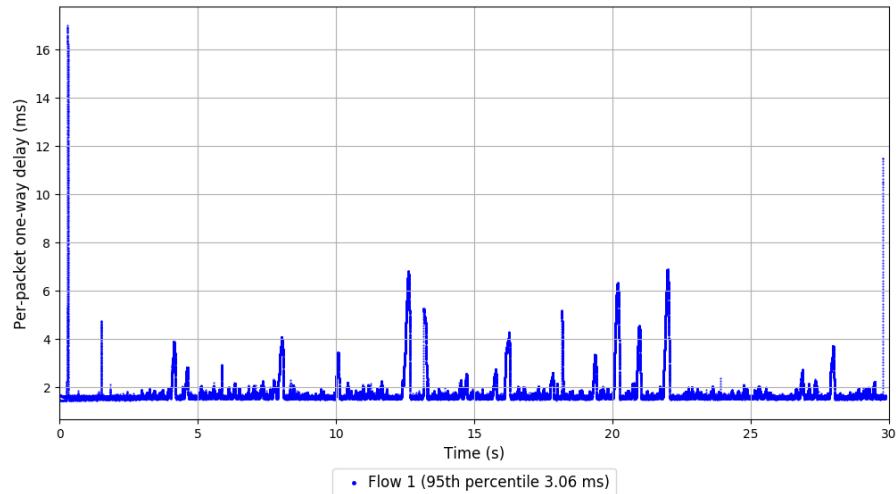
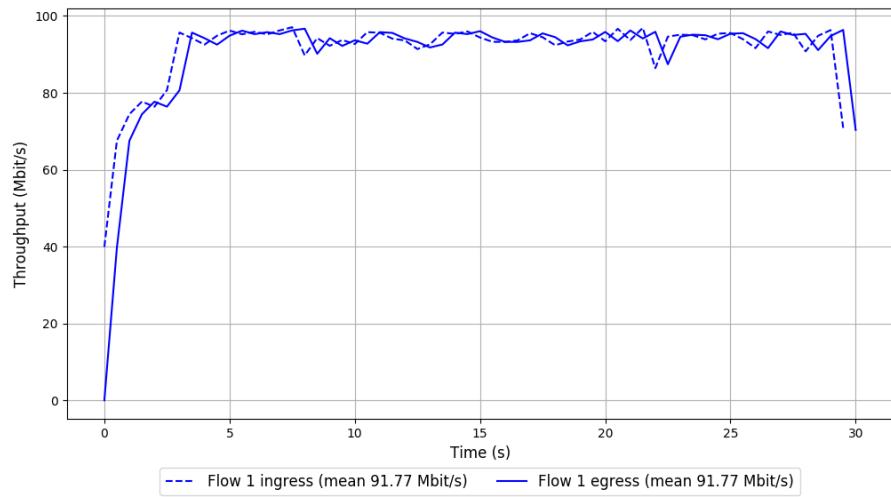


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-03-19 08:43:59
End at: 2019-03-19 08:44:30
Local clock offset: -5.333 ms
Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2019-03-19 10:44:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.77 Mbit/s
95th percentile per-packet one-way delay: 3.058 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.77 Mbit/s
95th percentile per-packet one-way delay: 3.058 ms
Loss rate: 0.02%
```

Run 1: Report of PCC-Allegro — Data Link

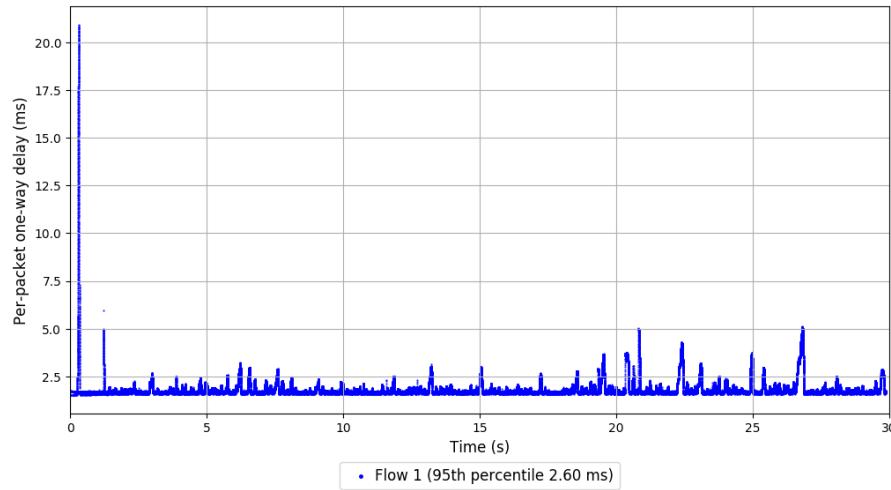
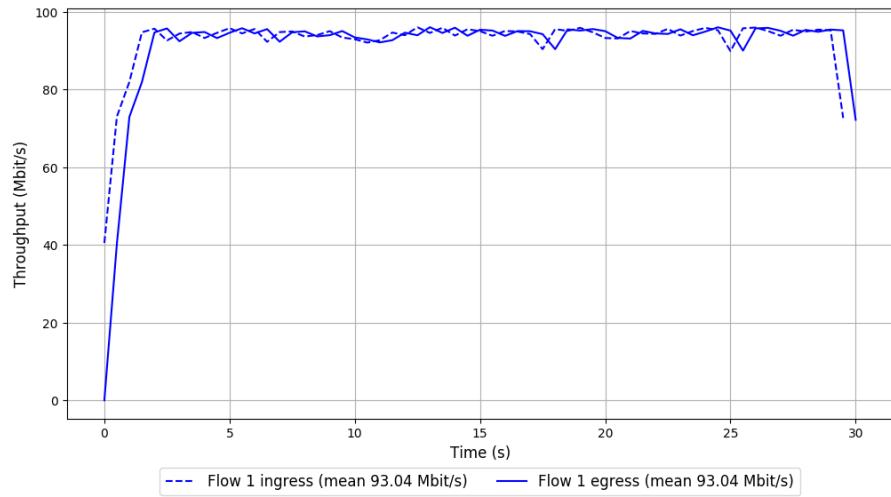


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-19 09:07:42
End at: 2019-03-19 09:08:12
Local clock offset: -5.658 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2019-03-19 10:44:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 2.597 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 2.597 ms
Loss rate: 0.02%
```

Run 2: Report of PCC-Allegro — Data Link

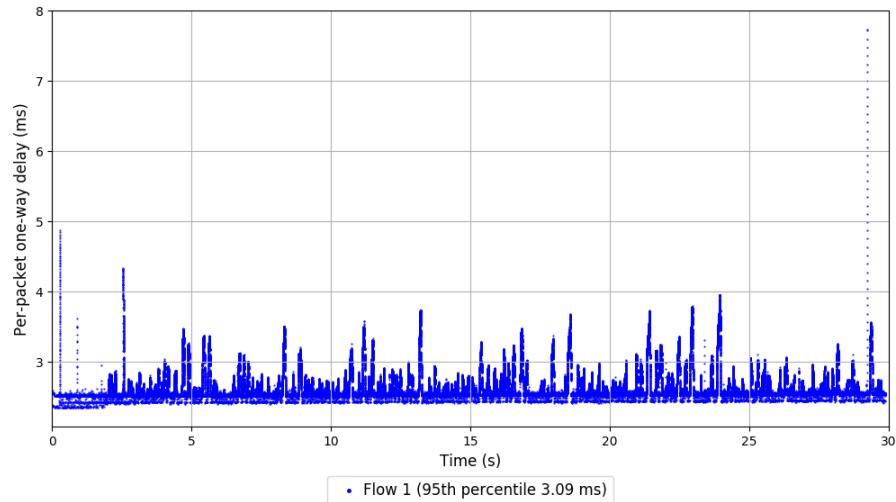
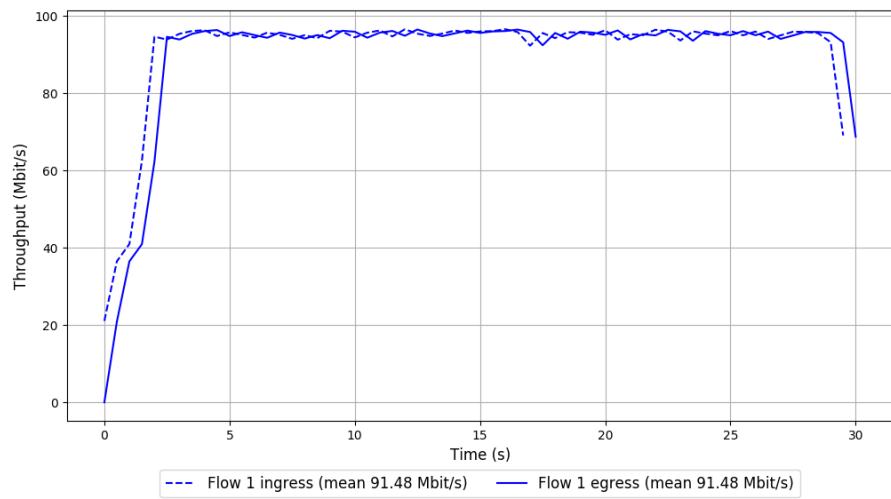


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-19 09:31:28
End at: 2019-03-19 09:31:58
Local clock offset: -6.506 ms
Remote clock offset: 0.164 ms

# Below is generated by plot.py at 2019-03-19 10:44:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 3.088 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 3.088 ms
Loss rate: 0.01%
```

Run 3: Report of PCC-Allegro — Data Link

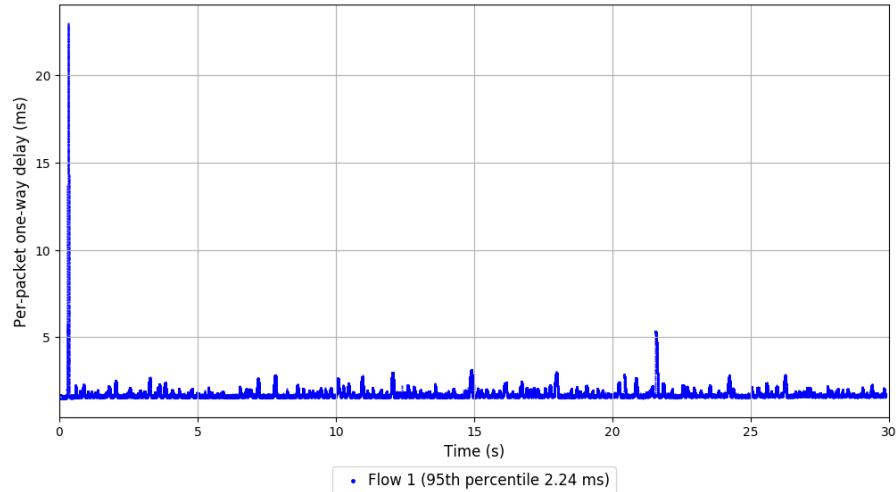
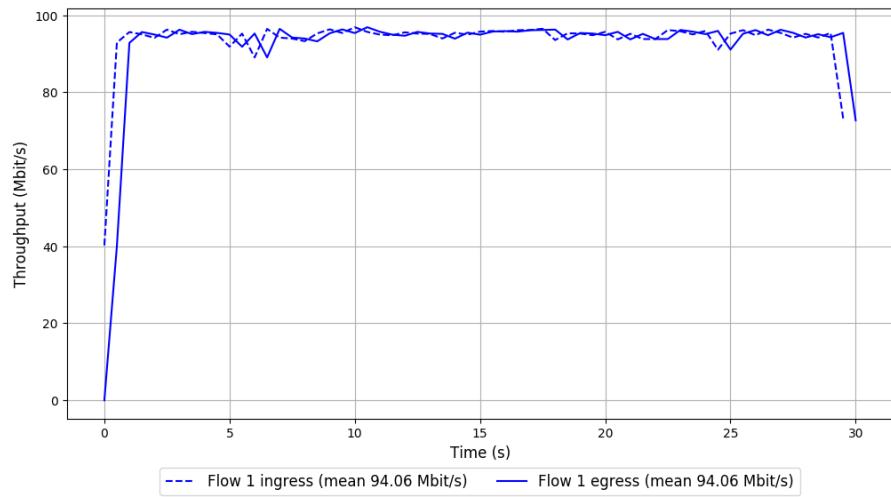


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-19 09:55:11
End at: 2019-03-19 09:55:41
Local clock offset: -8.089 ms
Remote clock offset: 0.325 ms

# Below is generated by plot.py at 2019-03-19 10:44:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.06 Mbit/s
95th percentile per-packet one-way delay: 2.242 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.06 Mbit/s
95th percentile per-packet one-way delay: 2.242 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Allegro — Data Link

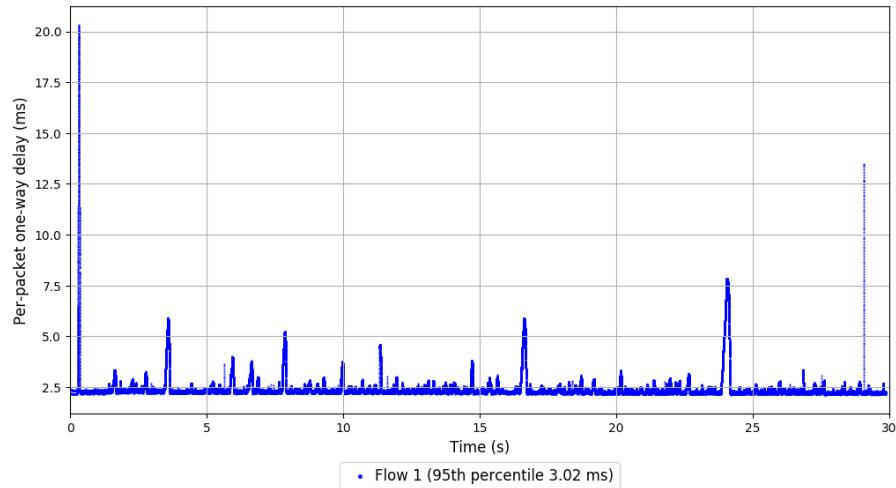
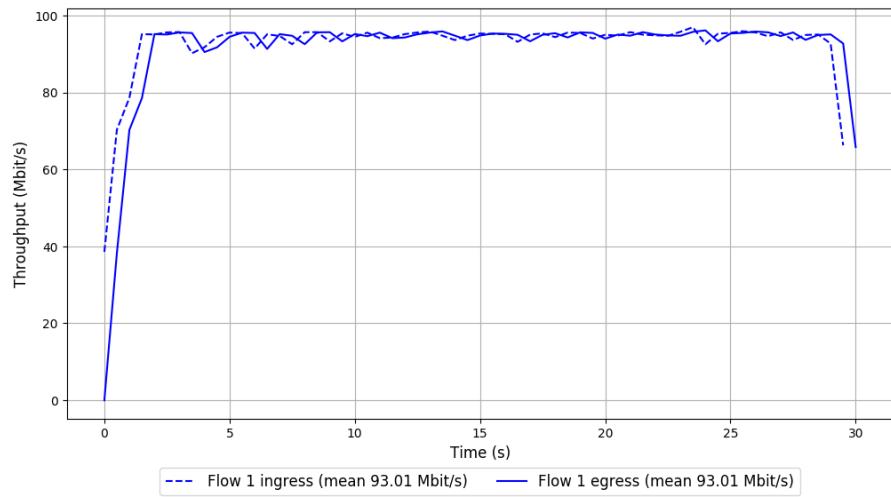


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-19 10:18:55
End at: 2019-03-19 10:19:25
Local clock offset: -7.17 ms
Remote clock offset: 0.484 ms

# Below is generated by plot.py at 2019-03-19 10:45:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.01 Mbit/s
95th percentile per-packet one-way delay: 3.016 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.01 Mbit/s
95th percentile per-packet one-way delay: 3.016 ms
Loss rate: 0.02%
```

Run 5: Report of PCC-Allegro — Data Link

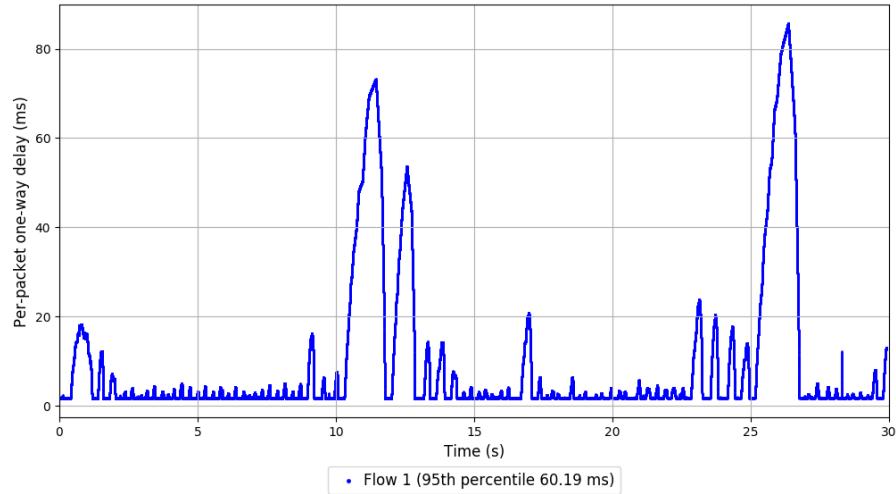
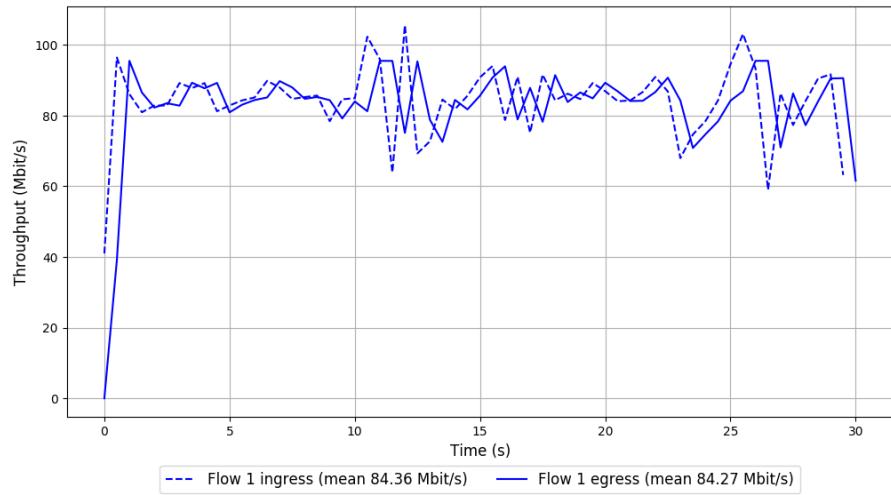


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-03-19 08:48:27
End at: 2019-03-19 08:48:57
Local clock offset: -5.342 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-03-19 10:45:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 60.186 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 60.186 ms
Loss rate: 0.13%
```

Run 1: Report of PCC-Expr — Data Link

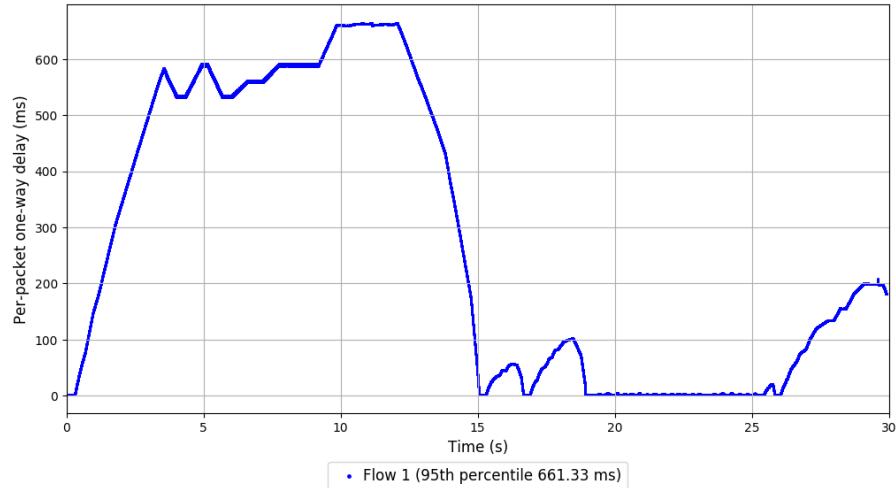
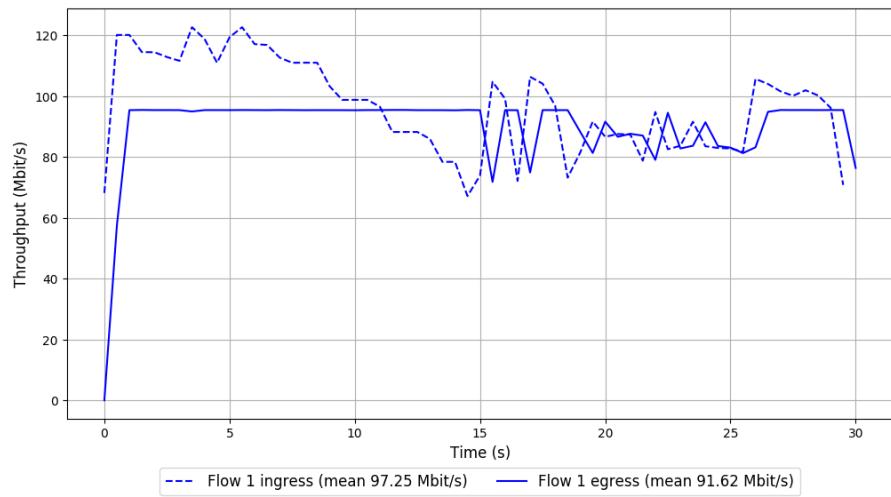


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-19 09:12:10
End at: 2019-03-19 09:12:40
Local clock offset: -5.65 ms
Remote clock offset: 0.128 ms

# Below is generated by plot.py at 2019-03-19 10:46:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.62 Mbit/s
95th percentile per-packet one-way delay: 661.327 ms
Loss rate: 5.81%
-- Flow 1:
Average throughput: 91.62 Mbit/s
95th percentile per-packet one-way delay: 661.327 ms
Loss rate: 5.81%
```

Run 2: Report of PCC-Expr — Data Link

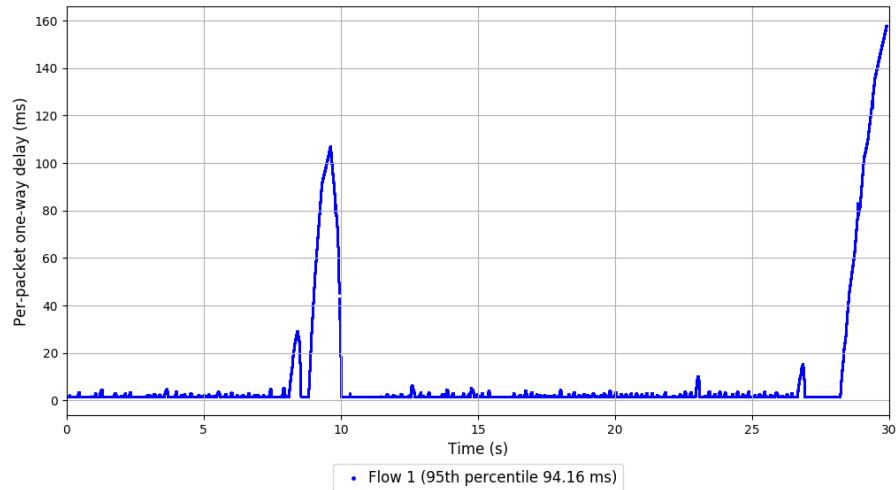
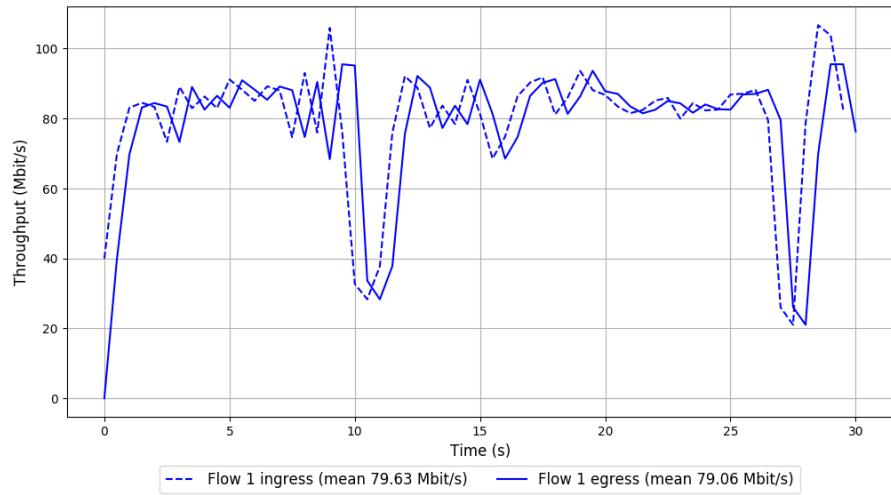


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-19 09:35:55
End at: 2019-03-19 09:36:25
Local clock offset: -7.48 ms
Remote clock offset: 0.3 ms

# Below is generated by plot.py at 2019-03-19 10:46:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.06 Mbit/s
95th percentile per-packet one-way delay: 94.155 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 79.06 Mbit/s
95th percentile per-packet one-way delay: 94.155 ms
Loss rate: 0.74%
```

Run 3: Report of PCC-Expr — Data Link

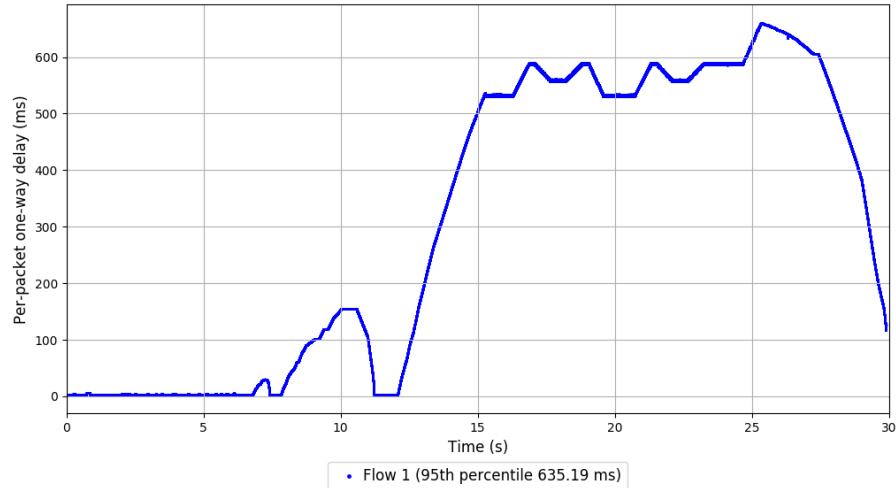
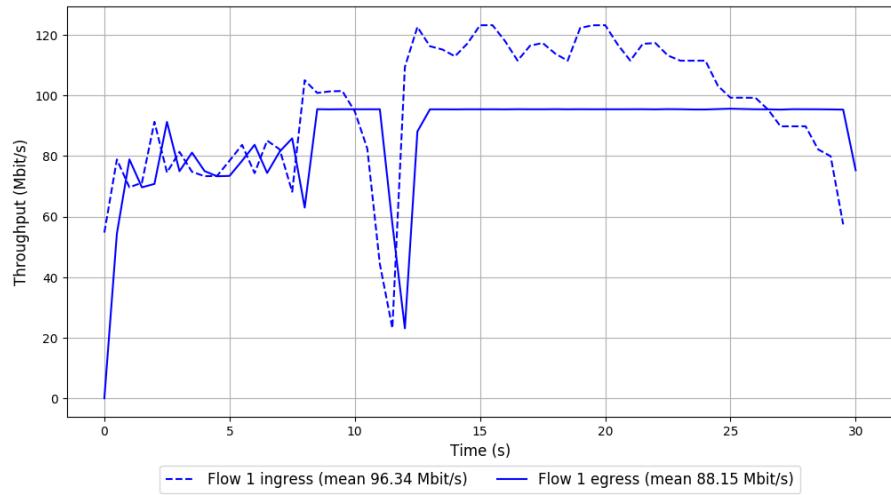


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-19 09:59:37
End at: 2019-03-19 10:00:07
Local clock offset: -7.376 ms
Remote clock offset: 0.47 ms

# Below is generated by plot.py at 2019-03-19 10:46:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.15 Mbit/s
95th percentile per-packet one-way delay: 635.186 ms
Loss rate: 8.50%
-- Flow 1:
Average throughput: 88.15 Mbit/s
95th percentile per-packet one-way delay: 635.186 ms
Loss rate: 8.50%
```

Run 4: Report of PCC-Expr — Data Link

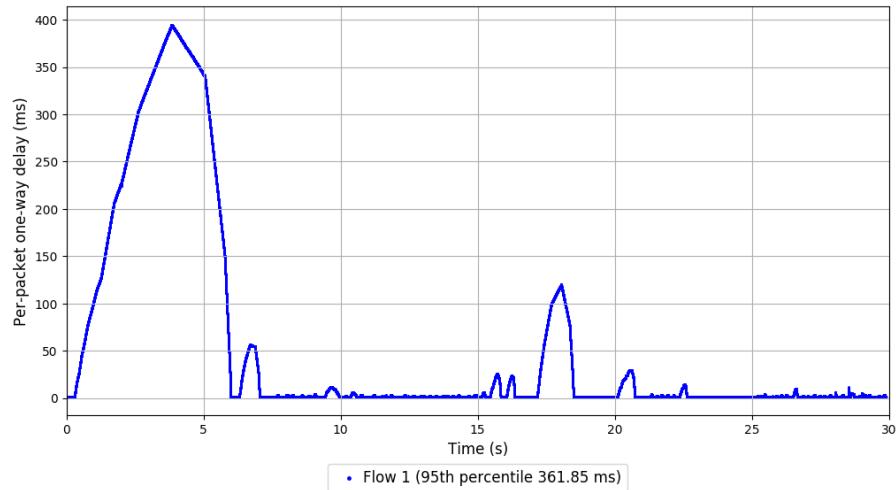
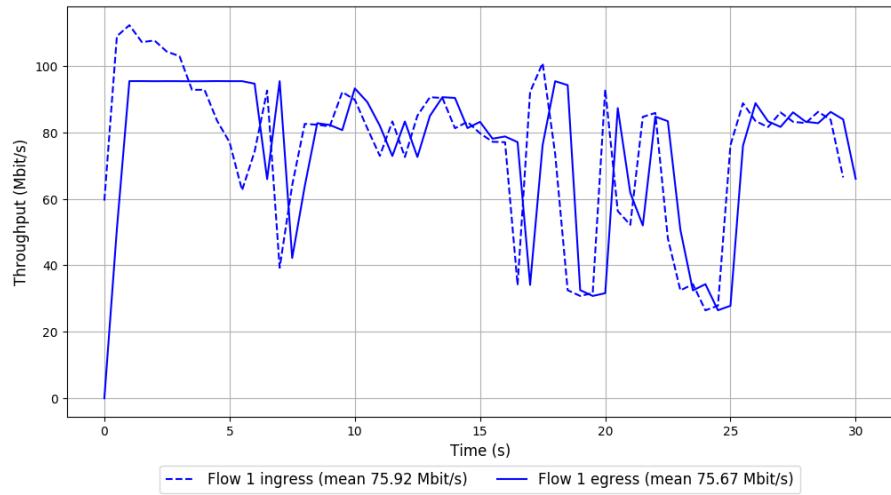


```
Run 5: Statistics of PCC-Expr
```

```
Start at: 2019-03-19 10:23:22
End at: 2019-03-19 10:23:52
Local clock offset: -7.292 ms
Remote clock offset: 0.563 ms

# Below is generated by plot.py at 2019-03-19 10:46:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.67 Mbit/s
95th percentile per-packet one-way delay: 361.851 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 75.67 Mbit/s
95th percentile per-packet one-way delay: 361.851 ms
Loss rate: 0.35%
```

Run 5: Report of PCC-Expr — Data Link

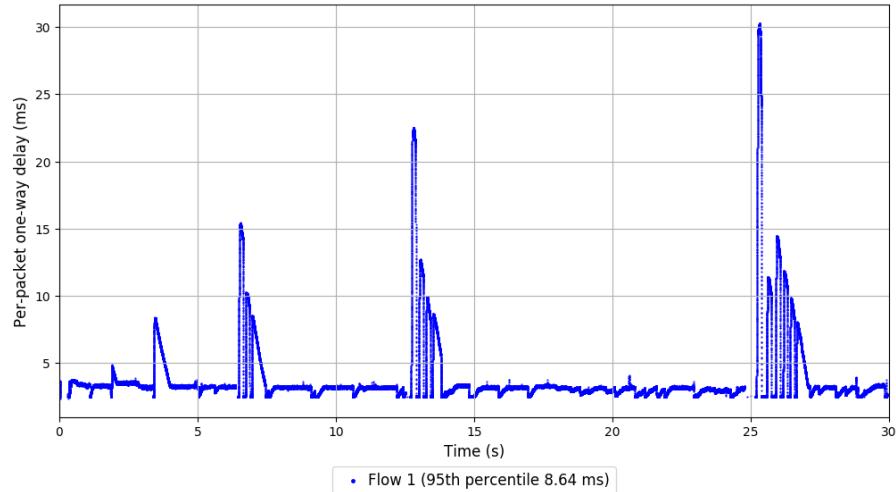
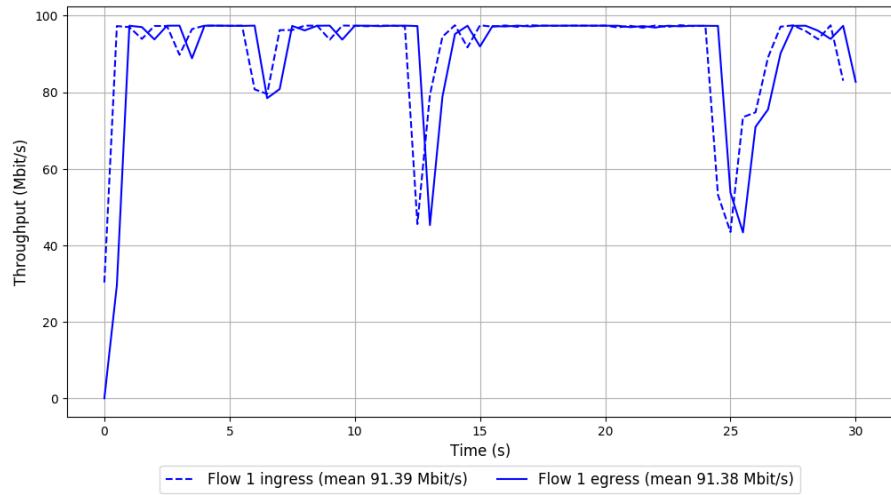


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-03-19 08:40:34
End at: 2019-03-19 08:41:04
Local clock offset: -4.524 ms
Remote clock offset: -0.267 ms

# Below is generated by plot.py at 2019-03-19 10:46:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.38 Mbit/s
95th percentile per-packet one-way delay: 8.642 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.38 Mbit/s
95th percentile per-packet one-way delay: 8.642 ms
Loss rate: 0.02%
```

Run 1: Report of QUIC Cubic — Data Link

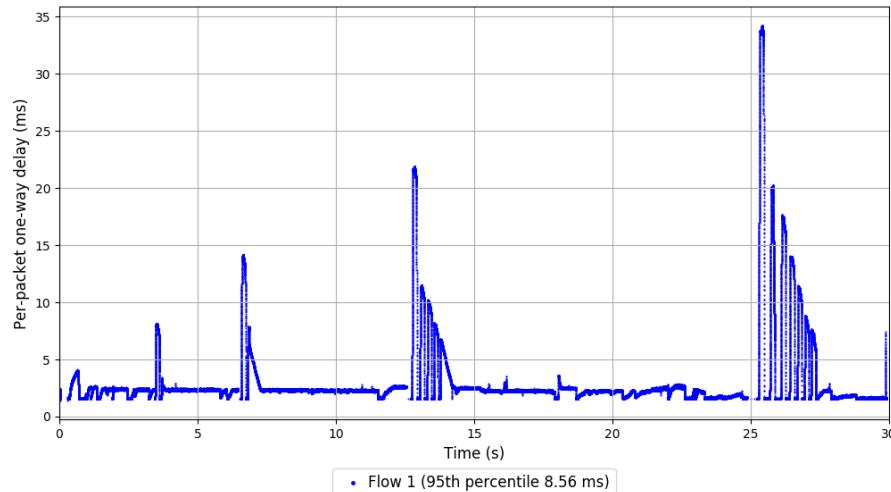
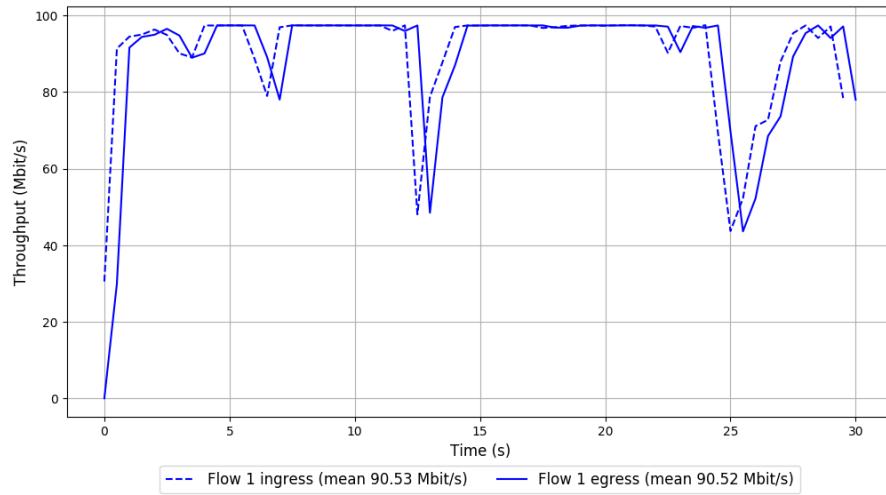


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-19 09:04:19
End at: 2019-03-19 09:04:49
Local clock offset: -5.716 ms
Remote clock offset: 0.123 ms

# Below is generated by plot.py at 2019-03-19 10:46:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.52 Mbit/s
95th percentile per-packet one-way delay: 8.562 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.52 Mbit/s
95th percentile per-packet one-way delay: 8.562 ms
Loss rate: 0.02%
```

Run 2: Report of QUIC Cubic — Data Link

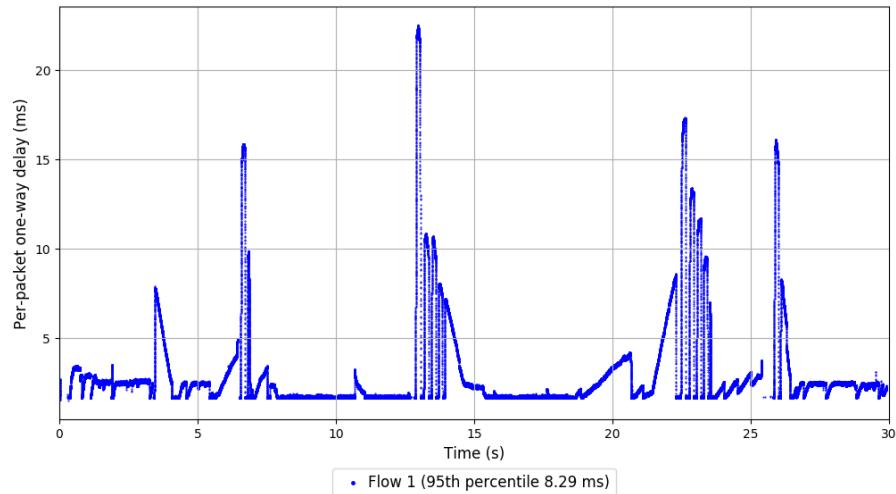
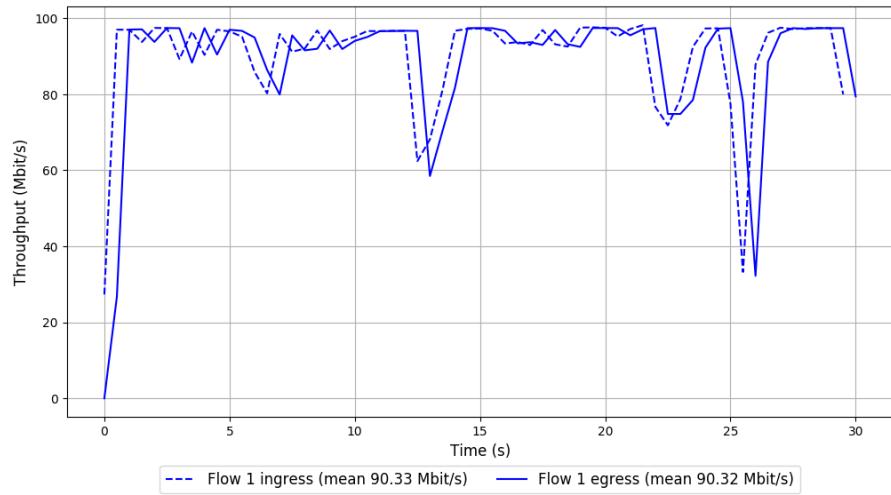


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-19 09:28:02
End at: 2019-03-19 09:28:32
Local clock offset: -7.078 ms
Remote clock offset: 0.219 ms

# Below is generated by plot.py at 2019-03-19 10:46:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.32 Mbit/s
95th percentile per-packet one-way delay: 8.291 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.32 Mbit/s
95th percentile per-packet one-way delay: 8.291 ms
Loss rate: 0.02%
```

Run 3: Report of QUIC Cubic — Data Link

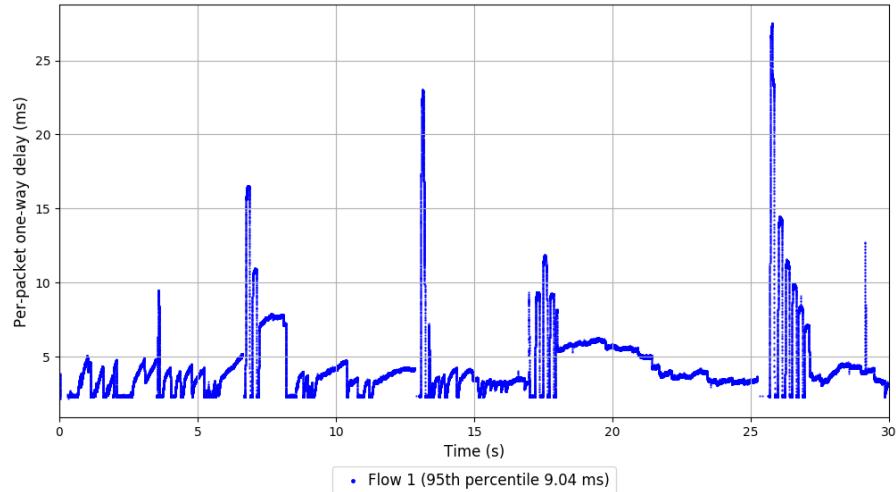
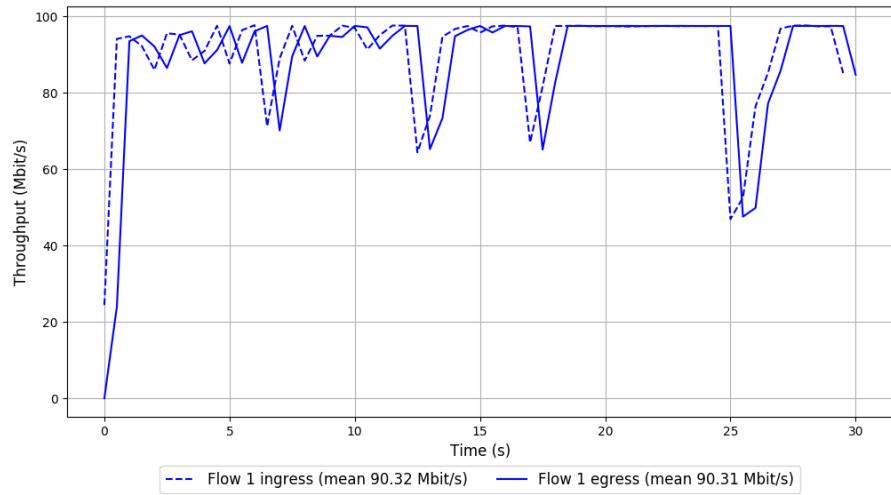


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-19 09:51:47
End at: 2019-03-19 09:52:17
Local clock offset: -7.259 ms
Remote clock offset: 0.356 ms

# Below is generated by plot.py at 2019-03-19 10:47:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.31 Mbit/s
95th percentile per-packet one-way delay: 9.039 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 90.31 Mbit/s
95th percentile per-packet one-way delay: 9.039 ms
Loss rate: 0.03%
```

Run 4: Report of QUIC Cubic — Data Link

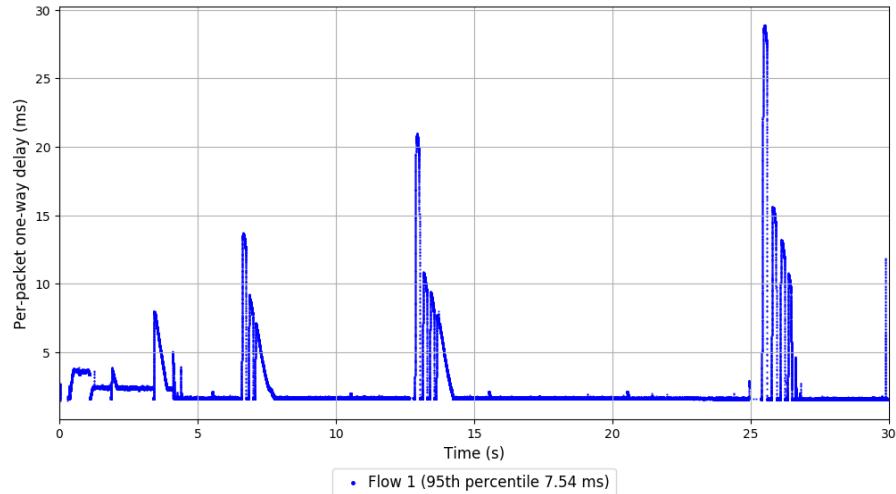
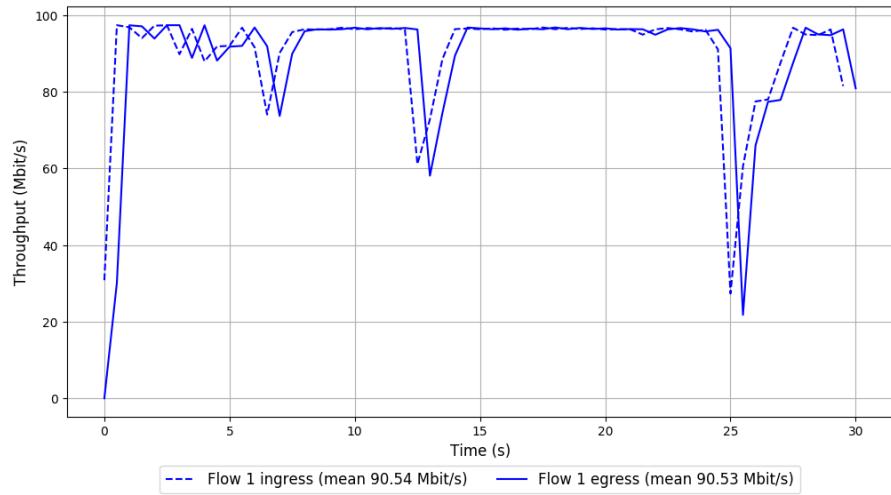


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-19 10:15:30
End at: 2019-03-19 10:16:00
Local clock offset: -8.567 ms
Remote clock offset: 0.428 ms

# Below is generated by plot.py at 2019-03-19 10:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.53 Mbit/s
95th percentile per-packet one-way delay: 7.537 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.53 Mbit/s
95th percentile per-packet one-way delay: 7.537 ms
Loss rate: 0.02%
```

Run 5: Report of QUIC Cubic — Data Link

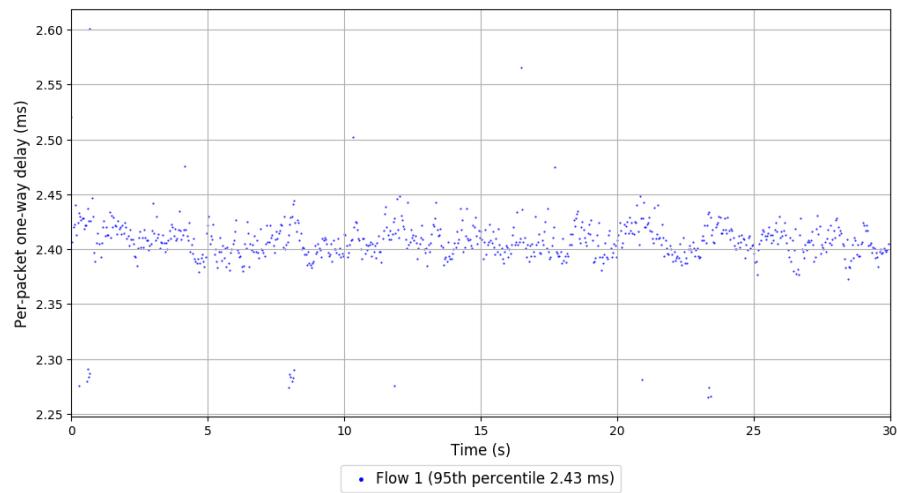
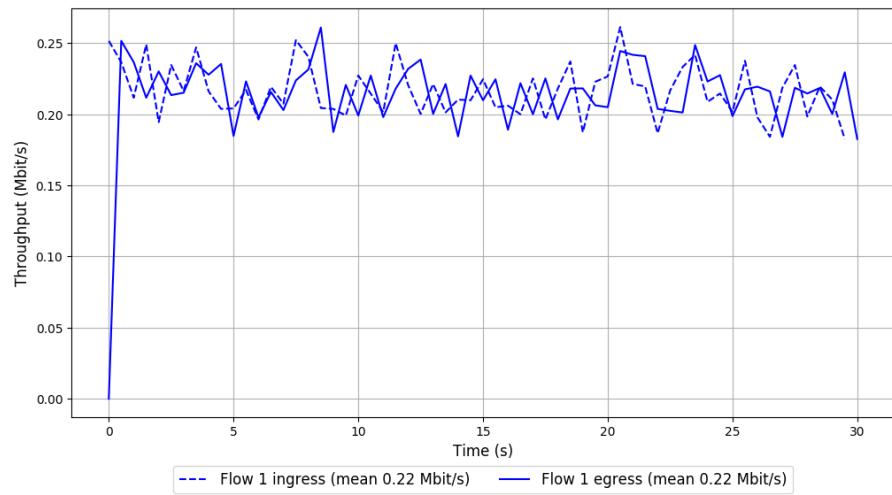


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-03-19 08:45:06
End at: 2019-03-19 08:45:36
Local clock offset: -4.488 ms
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2019-03-19 10:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.430 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

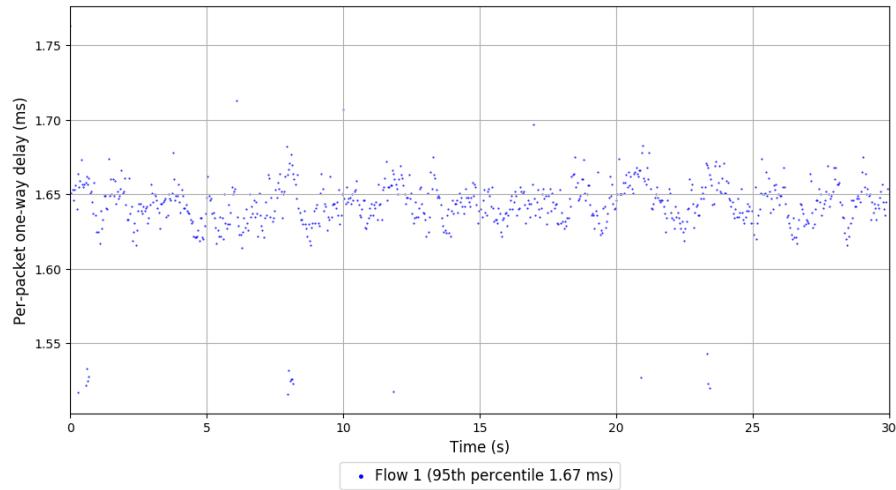
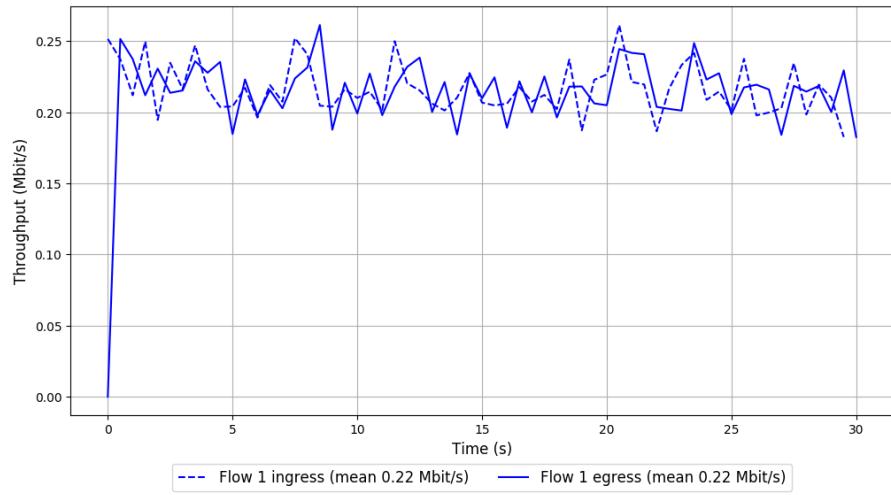


Run 2: Statistics of SCReAM

```
Start at: 2019-03-19 09:08:49
End at: 2019-03-19 09:09:19
Local clock offset: -5.722 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2019-03-19 10:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.666 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.666 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

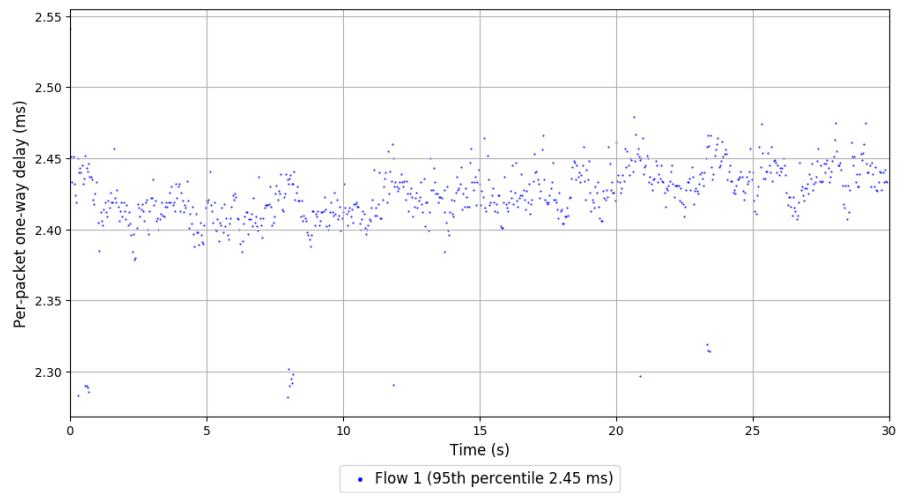
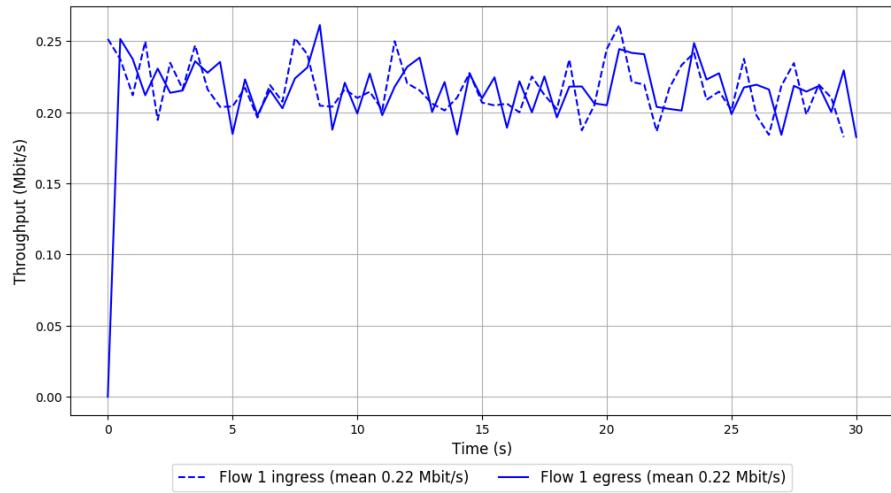


Run 3: Statistics of SCReAM

```
Start at: 2019-03-19 09:32:35
End at: 2019-03-19 09:33:05
Local clock offset: -6.582 ms
Remote clock offset: 0.251 ms

# Below is generated by plot.py at 2019-03-19 10:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.454 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.454 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

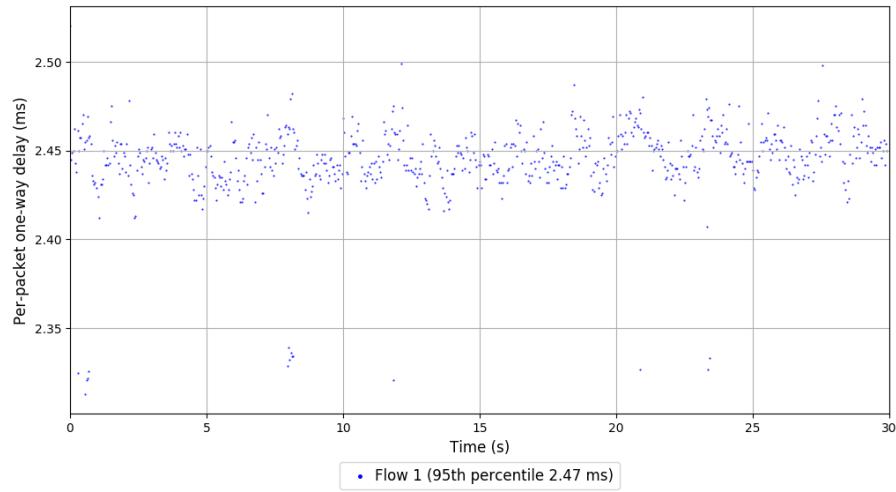
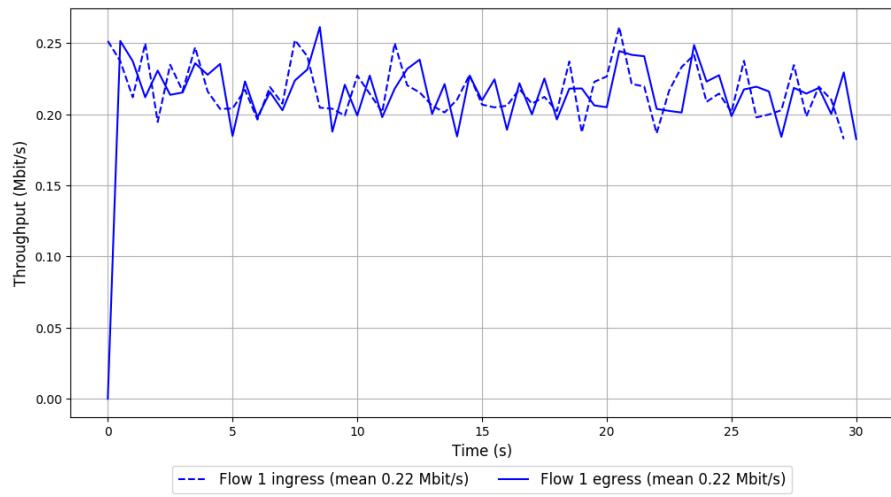


Run 4: Statistics of SCReAM

```
Start at: 2019-03-19 09:56:18
End at: 2019-03-19 09:56:48
Local clock offset: -7.298 ms
Remote clock offset: 0.347 ms

# Below is generated by plot.py at 2019-03-19 10:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.470 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.470 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

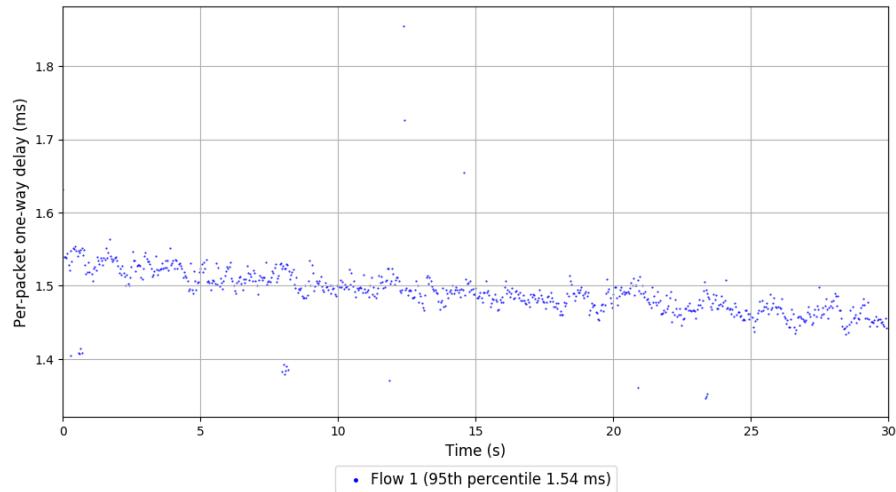
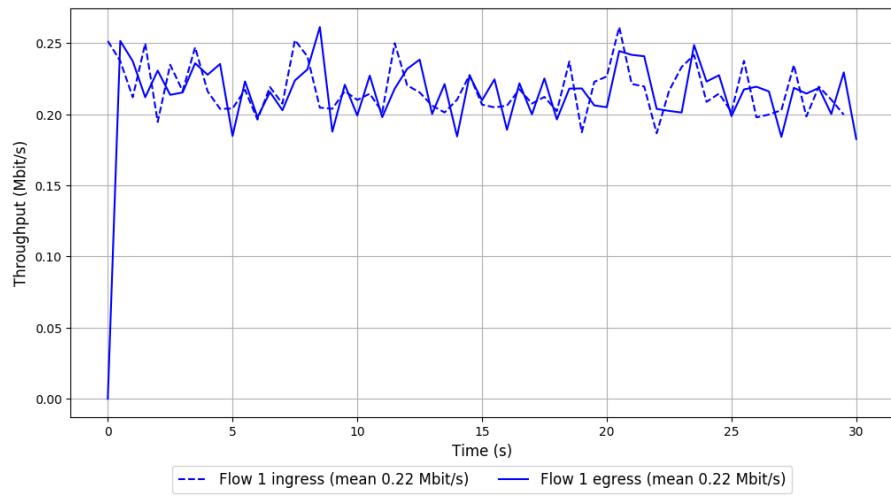


Run 5: Statistics of SCReAM

```
Start at: 2019-03-19 10:20:02
End at: 2019-03-19 10:20:32
Local clock offset: -7.735 ms
Remote clock offset: 0.532 ms

# Below is generated by plot.py at 2019-03-19 10:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.536 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.536 ms
Loss rate: 0.13%
```

Run 5: Report of SCReAM — Data Link

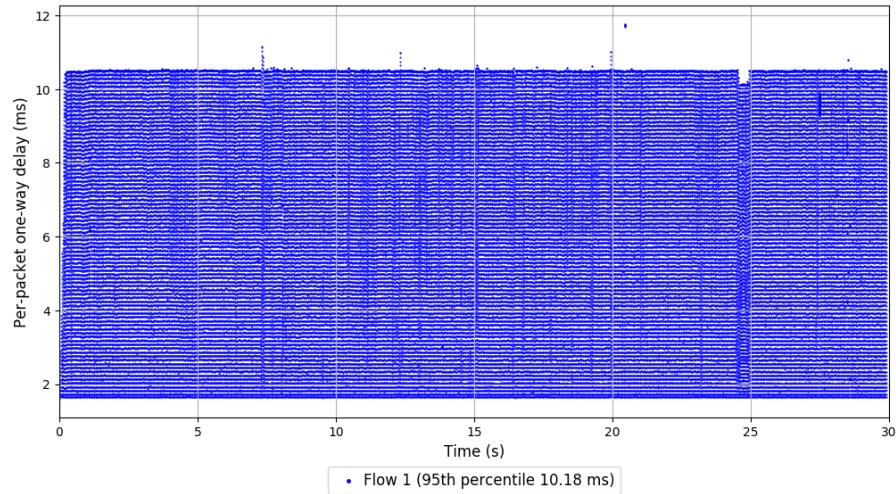
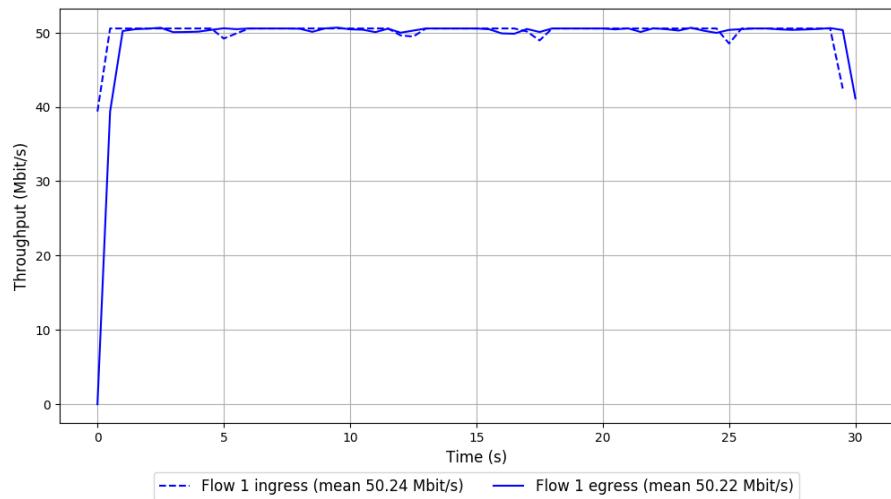


Run 1: Statistics of Sprout

```
Start at: 2019-03-19 08:37:17
End at: 2019-03-19 08:37:47
Local clock offset: -5.312 ms
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2019-03-19 10:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 10.178 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 10.178 ms
Loss rate: 0.07%
```

Run 1: Report of Sprout — Data Link

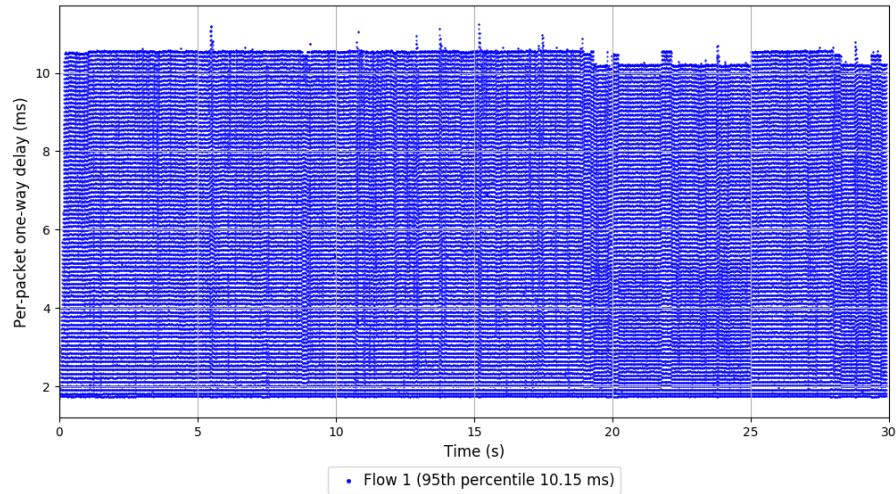
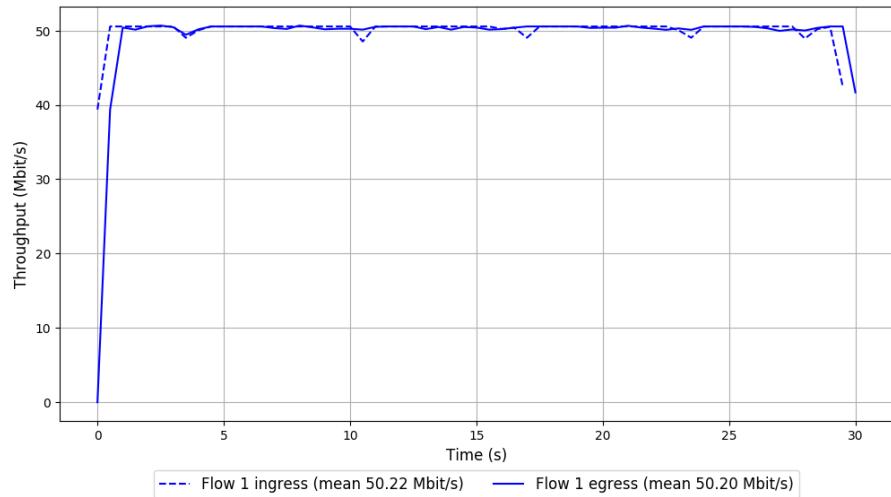


Run 2: Statistics of Sprout

```
Start at: 2019-03-19 09:01:02
End at: 2019-03-19 09:01:32
Local clock offset: -5.614 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-03-19 10:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 10.150 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 10.150 ms
Loss rate: 0.03%
```

Run 2: Report of Sprout — Data Link

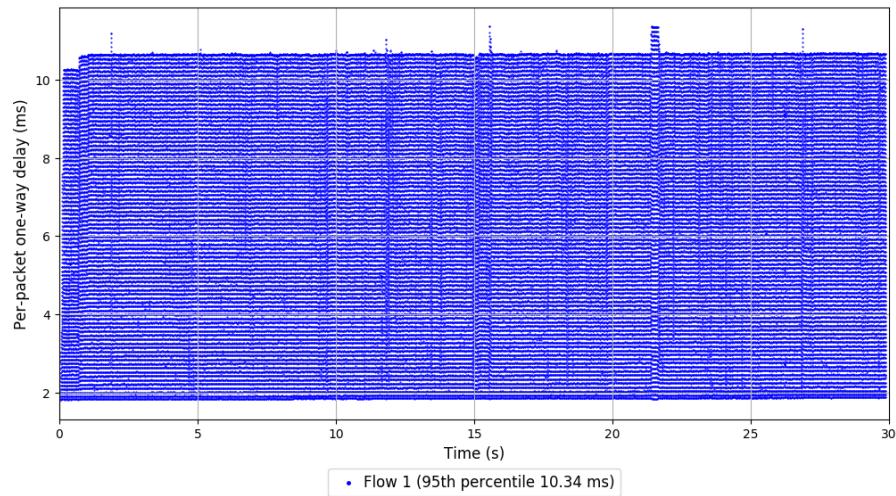
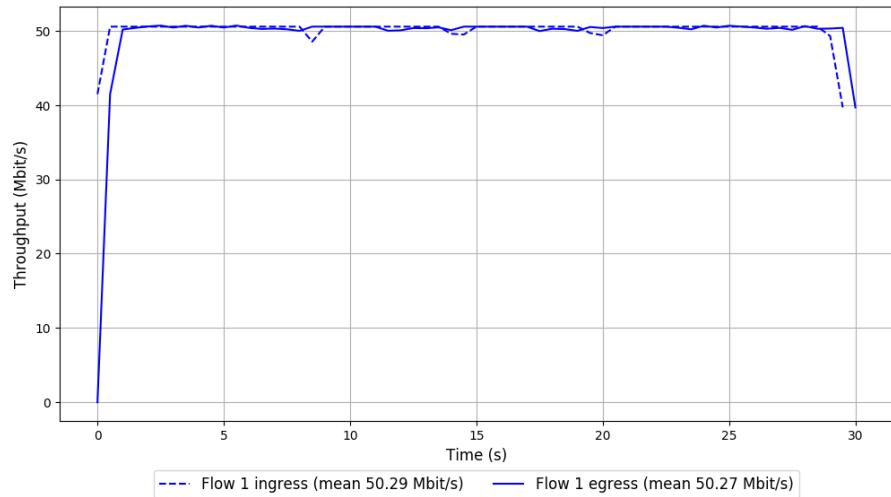


Run 3: Statistics of Sprout

```
Start at: 2019-03-19 09:24:46
End at: 2019-03-19 09:25:16
Local clock offset: -6.819 ms
Remote clock offset: 0.074 ms

# Below is generated by plot.py at 2019-03-19 10:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 10.342 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 10.342 ms
Loss rate: 0.03%
```

Run 3: Report of Sprout — Data Link

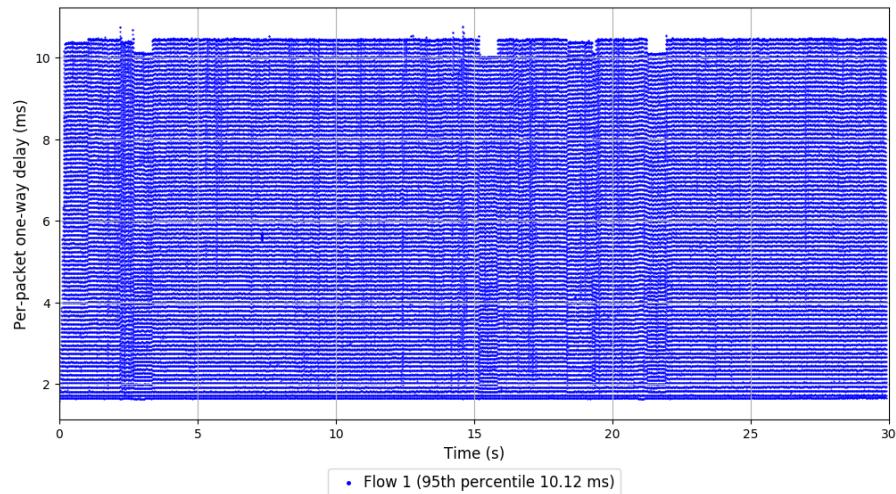
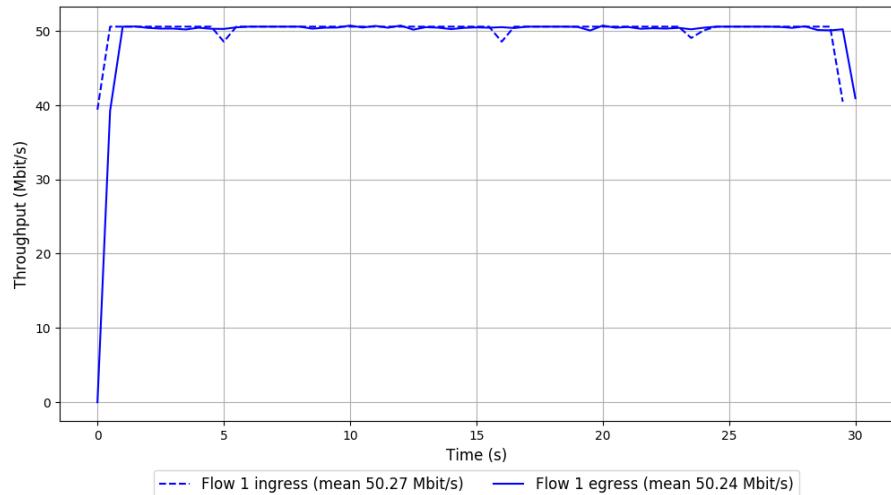


Run 4: Statistics of Sprout

```
Start at: 2019-03-19 09:48:30
End at: 2019-03-19 09:49:00
Local clock offset: -7.933 ms
Remote clock offset: 0.304 ms

# Below is generated by plot.py at 2019-03-19 10:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 10.115 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 10.115 ms
Loss rate: 0.03%
```

Run 4: Report of Sprout — Data Link

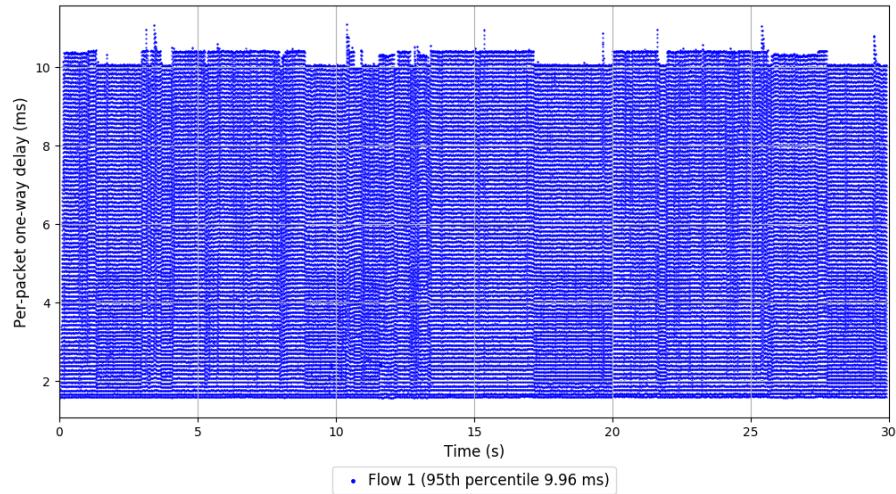
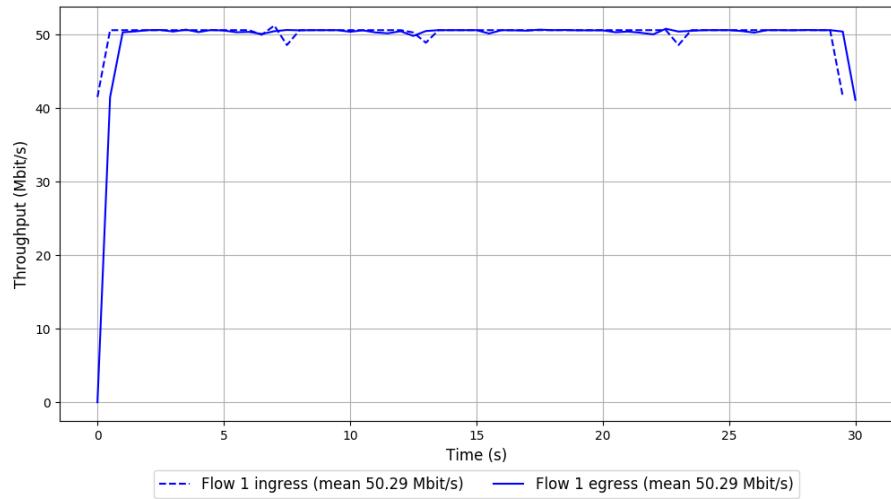


Run 5: Statistics of Sprout

```
Start at: 2019-03-19 10:12:13
End at: 2019-03-19 10:12:43
Local clock offset: -8.485 ms
Remote clock offset: 0.483 ms

# Below is generated by plot.py at 2019-03-19 10:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.29 Mbit/s
95th percentile per-packet one-way delay: 9.959 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 50.29 Mbit/s
95th percentile per-packet one-way delay: 9.959 ms
Loss rate: 0.04%
```

Run 5: Report of Sprout — Data Link

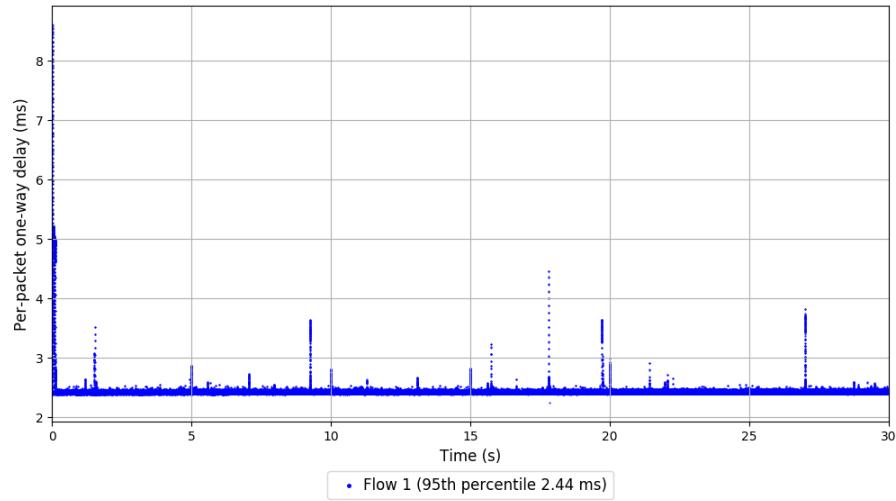
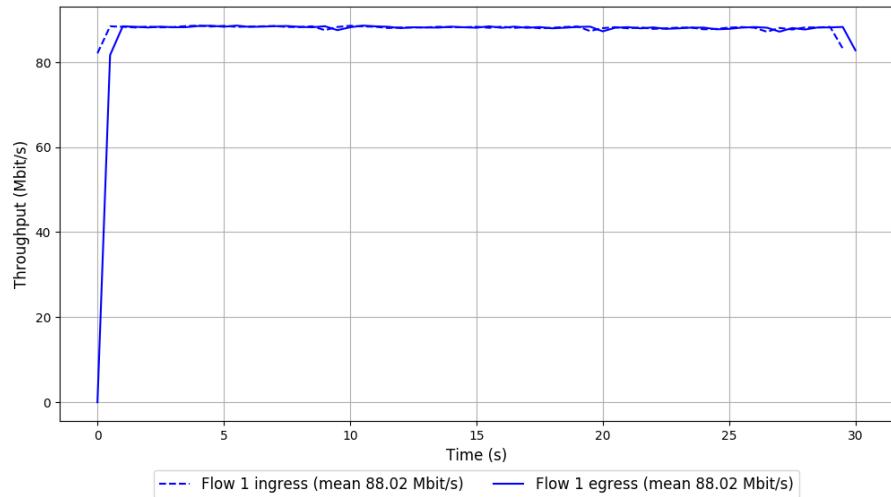


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-19 08:56:27
End at: 2019-03-19 08:56:57
Local clock offset: -4.805 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-03-19 10:48:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 2.440 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 2.440 ms
Loss rate: 0.02%
```

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

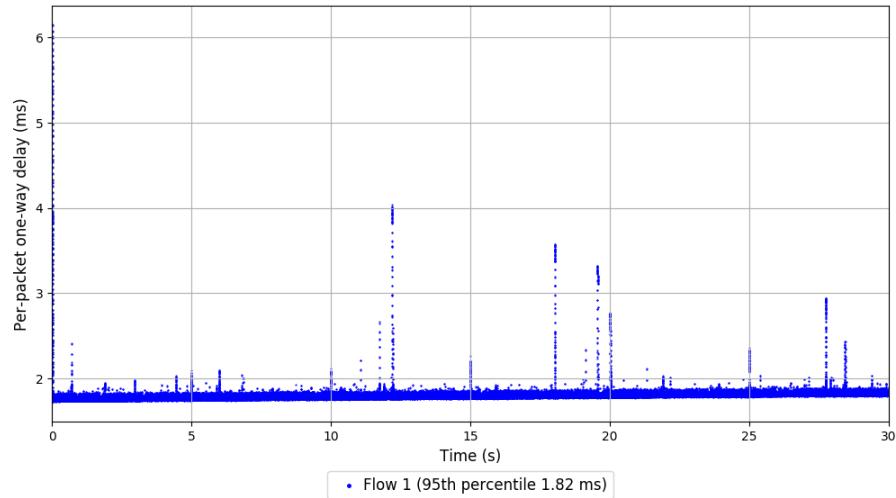
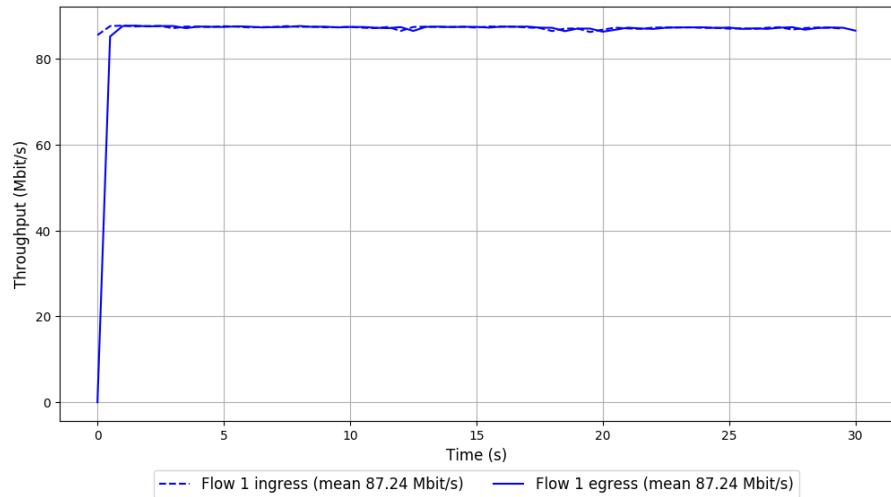


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-19 09:20:11
End at: 2019-03-19 09:20:41
Local clock offset: -6.295 ms
Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2019-03-19 10:48:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.24 Mbit/s
95th percentile per-packet one-way delay: 1.823 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.24 Mbit/s
95th percentile per-packet one-way delay: 1.823 ms
Loss rate: 0.02%
```

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

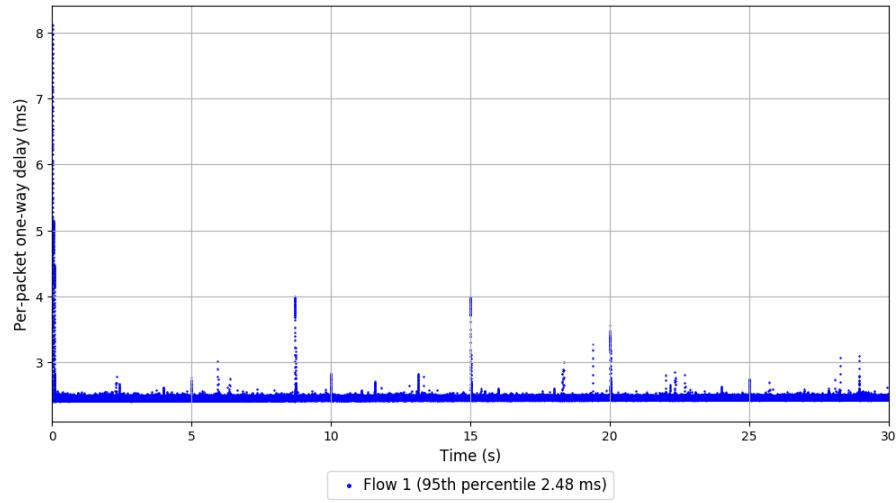
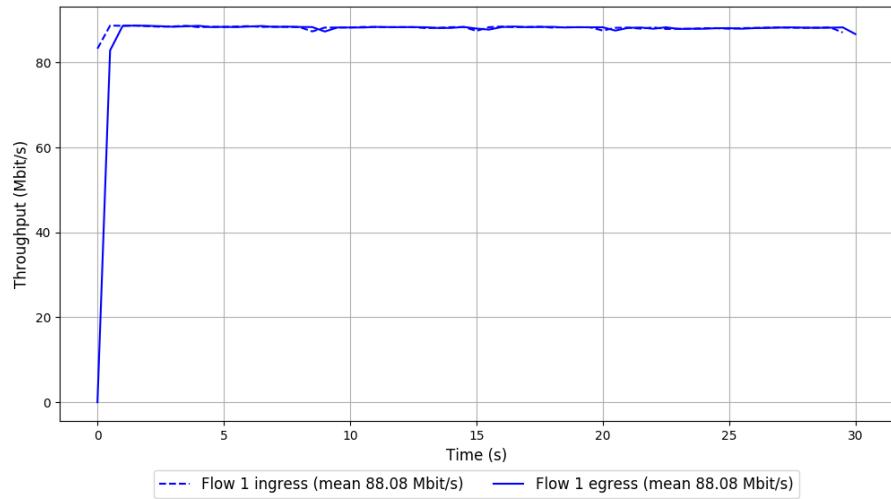


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-19 09:43:55
End at: 2019-03-19 09:44:25
Local clock offset: -6.989 ms
Remote clock offset: 0.301 ms

# Below is generated by plot.py at 2019-03-19 10:48:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.08 Mbit/s
95th percentile per-packet one-way delay: 2.483 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.08 Mbit/s
95th percentile per-packet one-way delay: 2.483 ms
Loss rate: 0.02%
```

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

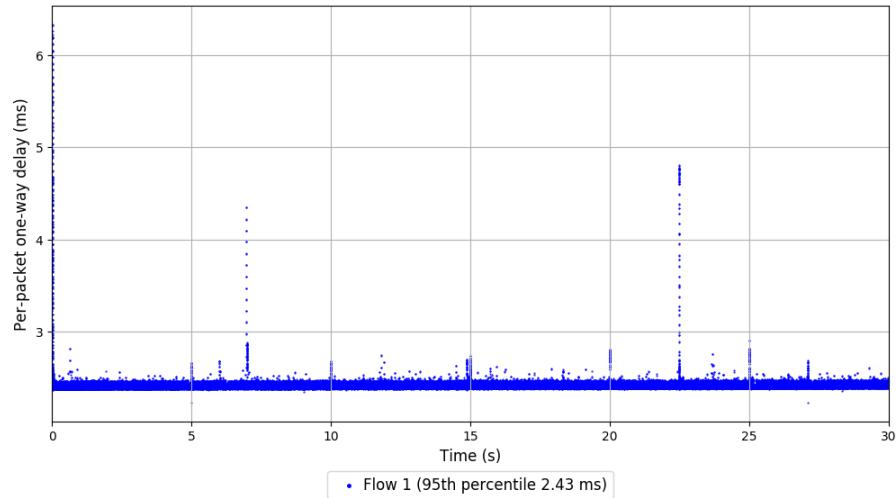
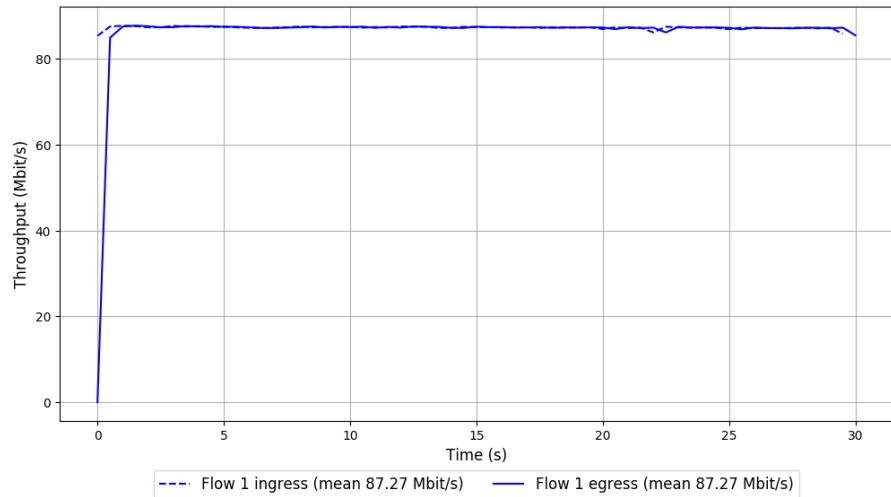


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-19 10:07:38
End at: 2019-03-19 10:08:08
Local clock offset: -7.573 ms
Remote clock offset: 0.449 ms

# Below is generated by plot.py at 2019-03-19 10:48:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.27 Mbit/s
95th percentile per-packet one-way delay: 2.428 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.27 Mbit/s
95th percentile per-packet one-way delay: 2.428 ms
Loss rate: 0.02%
```

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

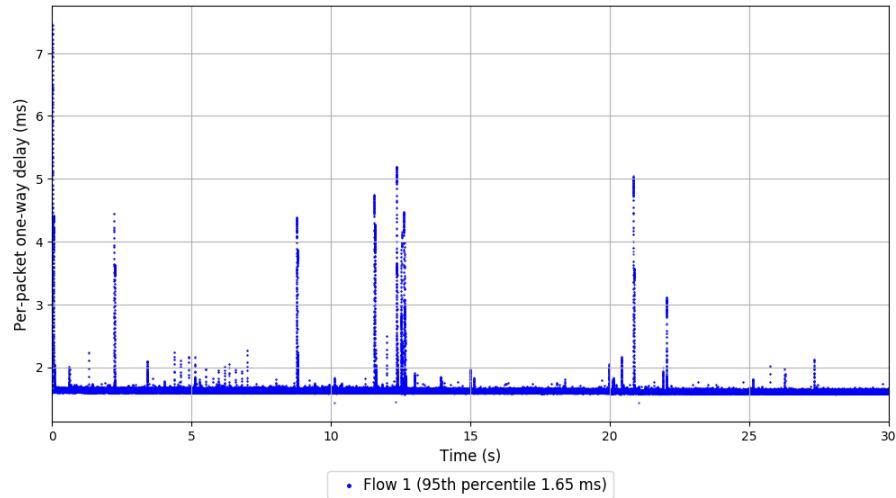
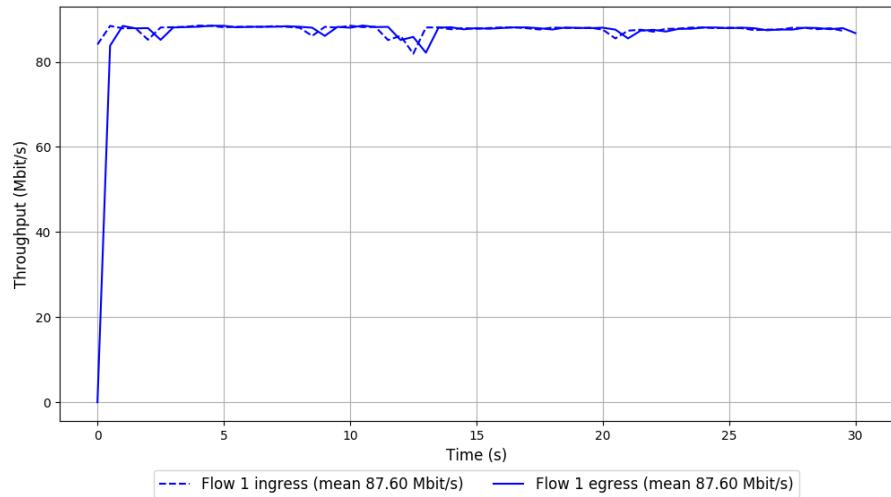


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-19 10:31:22
End at: 2019-03-19 10:31:52
Local clock offset: -6.649 ms
Remote clock offset: 0.571 ms

# Below is generated by plot.py at 2019-03-19 10:49:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.60 Mbit/s
95th percentile per-packet one-way delay: 1.645 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.60 Mbit/s
95th percentile per-packet one-way delay: 1.645 ms
Loss rate: 0.02%
```

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

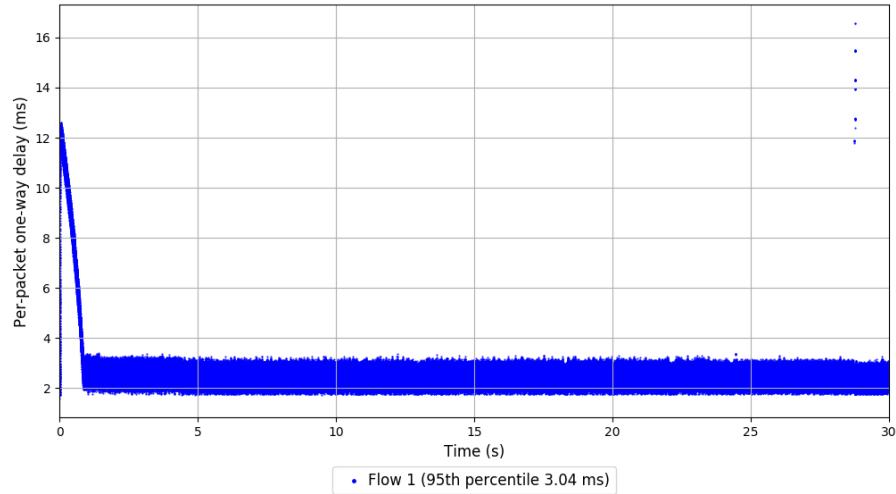
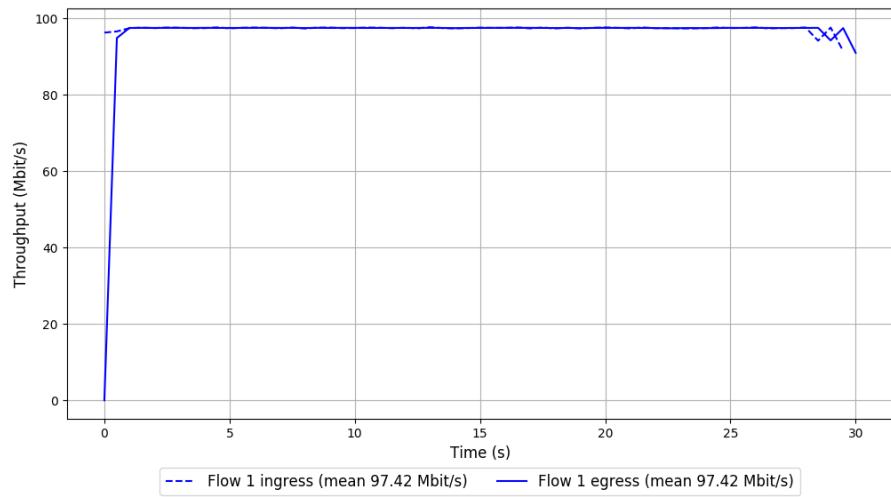


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-19 08:50:45
End at: 2019-03-19 08:51:15
Local clock offset: -5.425 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-03-19 10:49:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 3.036 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 3.036 ms
Loss rate: 0.02%
```

Run 1: Report of TCP Vegas — Data Link

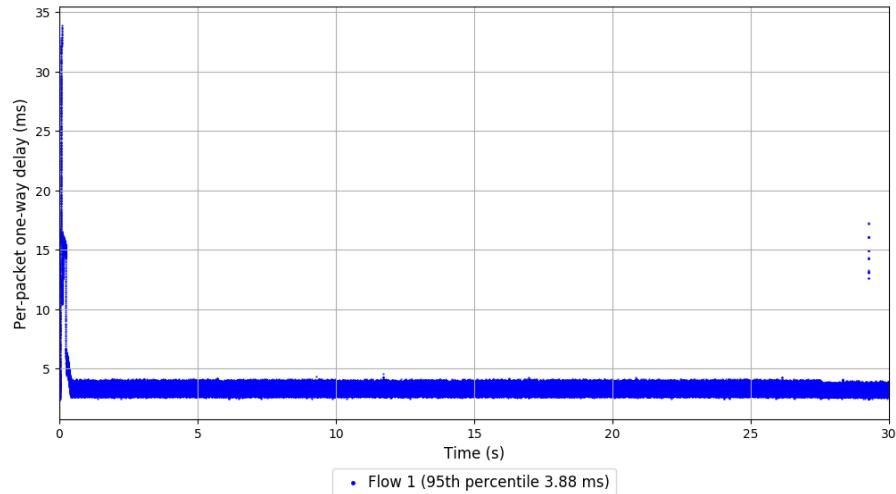
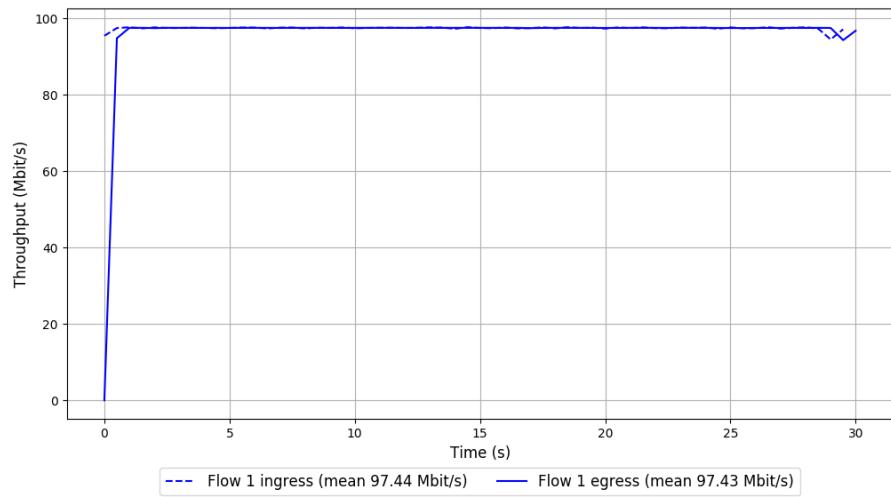


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-19 09:14:29
End at: 2019-03-19 09:14:59
Local clock offset: -4.891 ms
Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2019-03-19 10:49:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 3.884 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 3.884 ms
Loss rate: 0.02%
```

Run 2: Report of TCP Vegas — Data Link

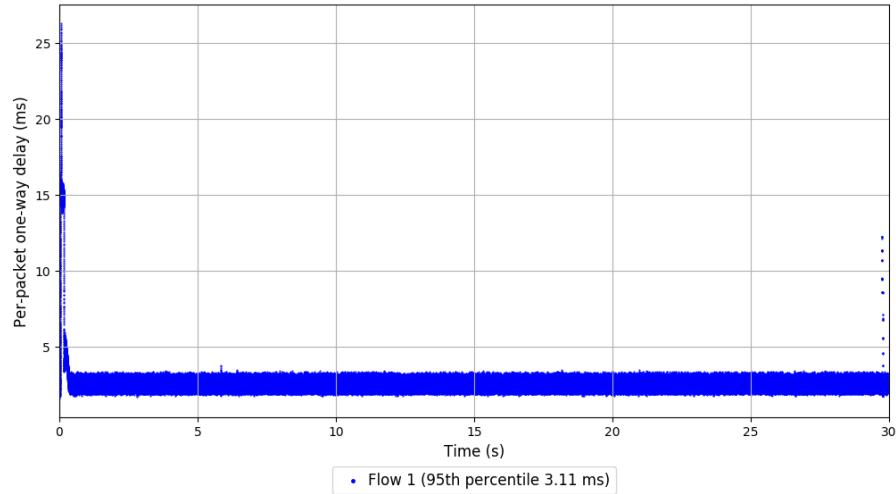
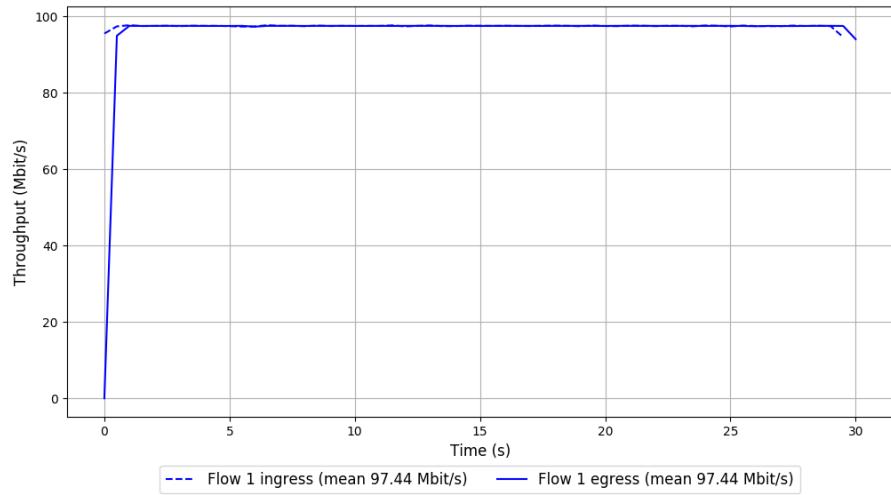


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-19 09:38:12
End at: 2019-03-19 09:38:42
Local clock offset: -7.566 ms
Remote clock offset: 0.251 ms

# Below is generated by plot.py at 2019-03-19 10:49:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 3.109 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 3.109 ms
Loss rate: 0.02%
```

Run 3: Report of TCP Vegas — Data Link

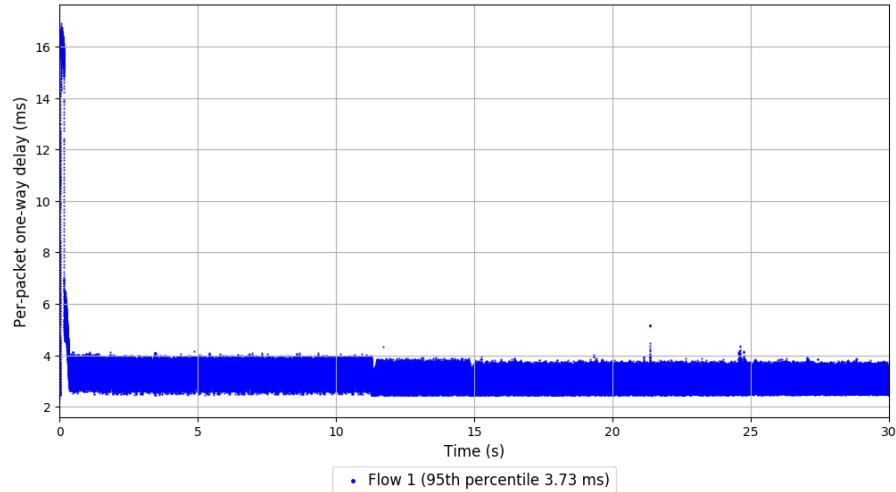
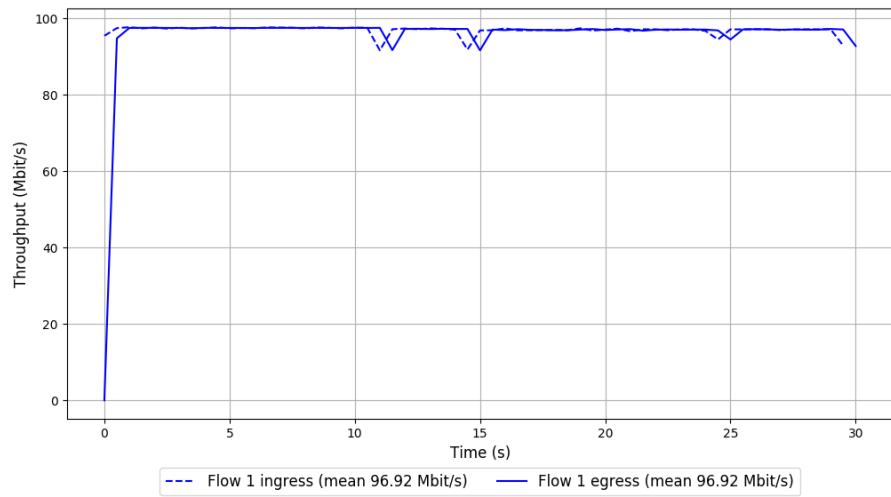


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-19 10:01:56
End at: 2019-03-19 10:02:26
Local clock offset: -7.433 ms
Remote clock offset: 0.369 ms

# Below is generated by plot.py at 2019-03-19 10:49:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.92 Mbit/s
95th percentile per-packet one-way delay: 3.728 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.92 Mbit/s
95th percentile per-packet one-way delay: 3.728 ms
Loss rate: 0.01%
```

Run 4: Report of TCP Vegas — Data Link

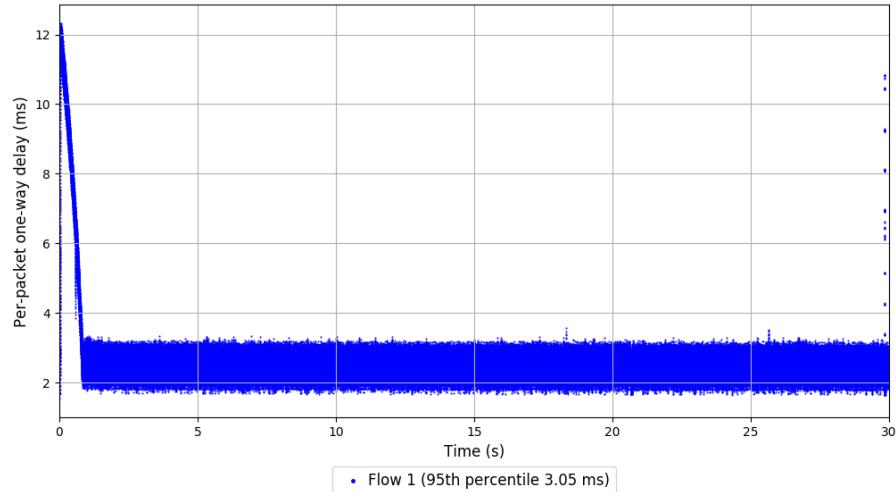
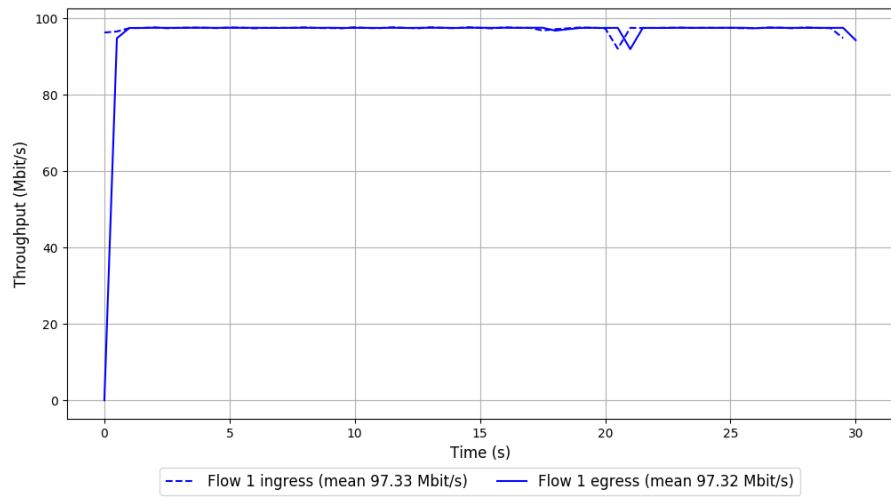


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-19 10:25:39
End at: 2019-03-19 10:26:10
Local clock offset: -7.068 ms
Remote clock offset: 0.434 ms

# Below is generated by plot.py at 2019-03-19 10:49:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 3.046 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 3.046 ms
Loss rate: 0.02%
```

Run 5: Report of TCP Vegas — Data Link

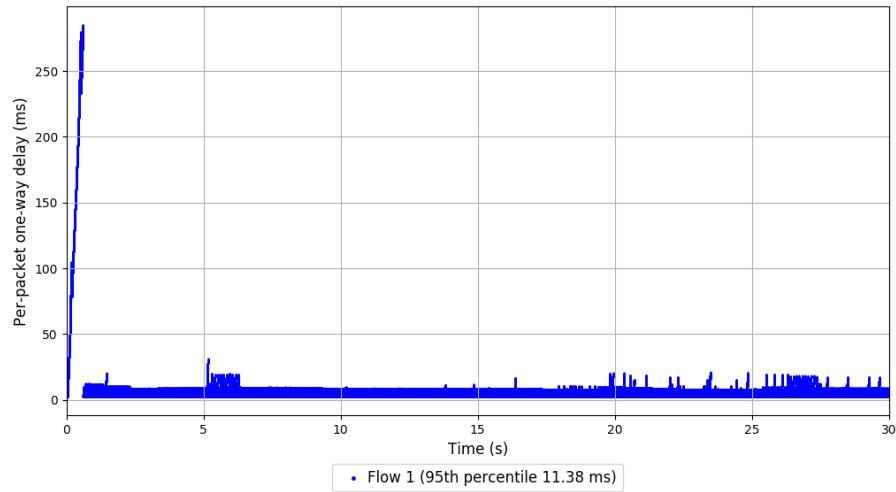
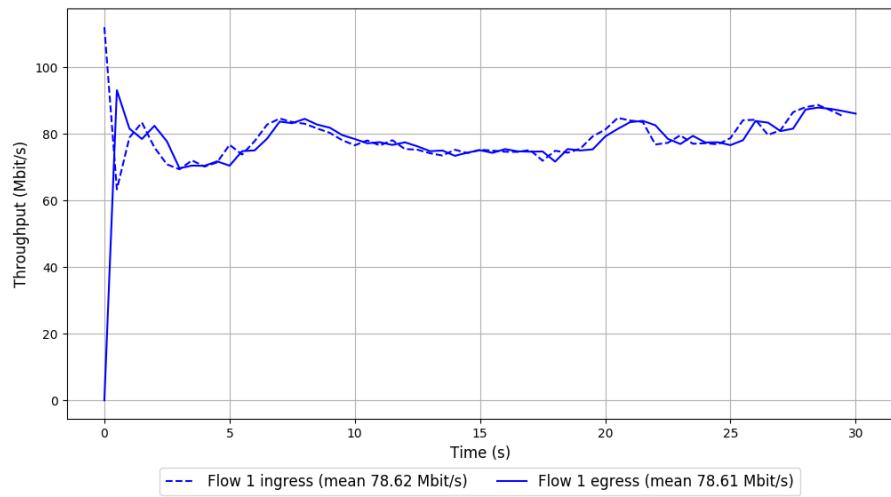


Run 1: Statistics of Verus

```
Start at: 2019-03-19 08:42:51
End at: 2019-03-19 08:43:21
Local clock offset: -4.583 ms
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2019-03-19 10:49:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.61 Mbit/s
95th percentile per-packet one-way delay: 11.384 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 78.61 Mbit/s
95th percentile per-packet one-way delay: 11.384 ms
Loss rate: 0.02%
```

Run 1: Report of Verus — Data Link

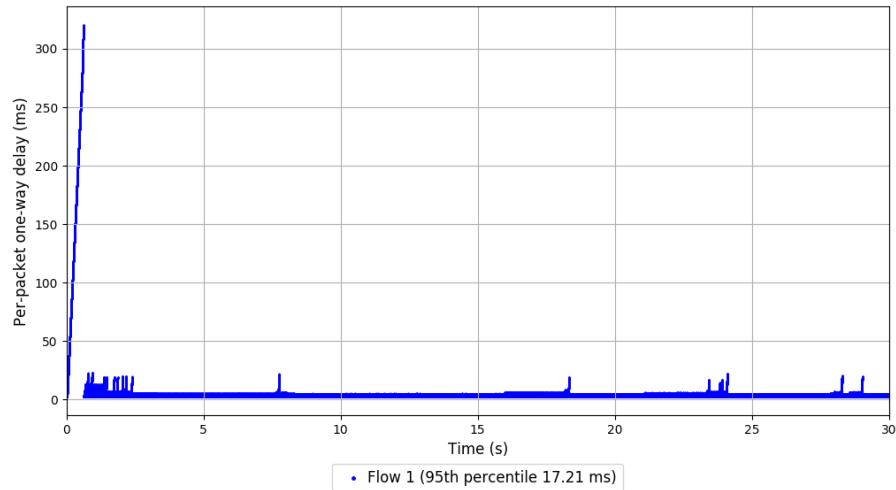
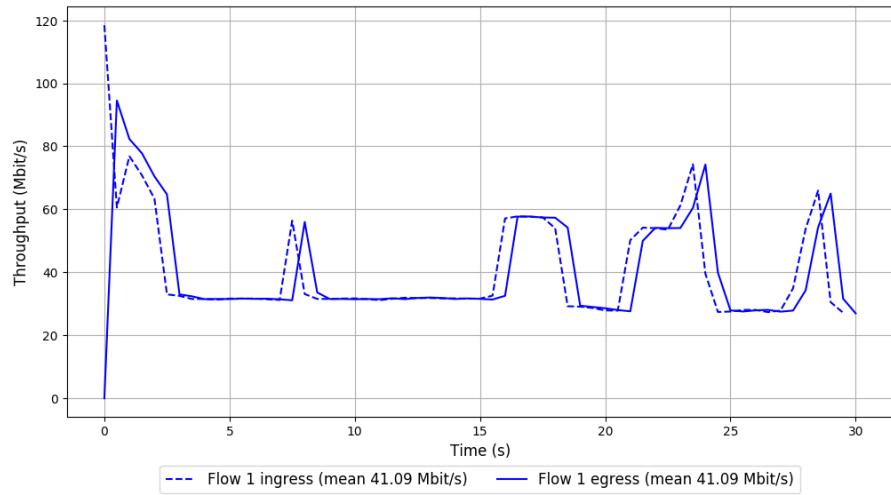


Run 2: Statistics of Verus

```
Start at: 2019-03-19 09:06:36
End at: 2019-03-19 09:07:06
Local clock offset: -4.899 ms
Remote clock offset: 0.117 ms

# Below is generated by plot.py at 2019-03-19 10:49:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.09 Mbit/s
95th percentile per-packet one-way delay: 17.214 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 41.09 Mbit/s
95th percentile per-packet one-way delay: 17.214 ms
Loss rate: 0.02%
```

Run 2: Report of Verus — Data Link

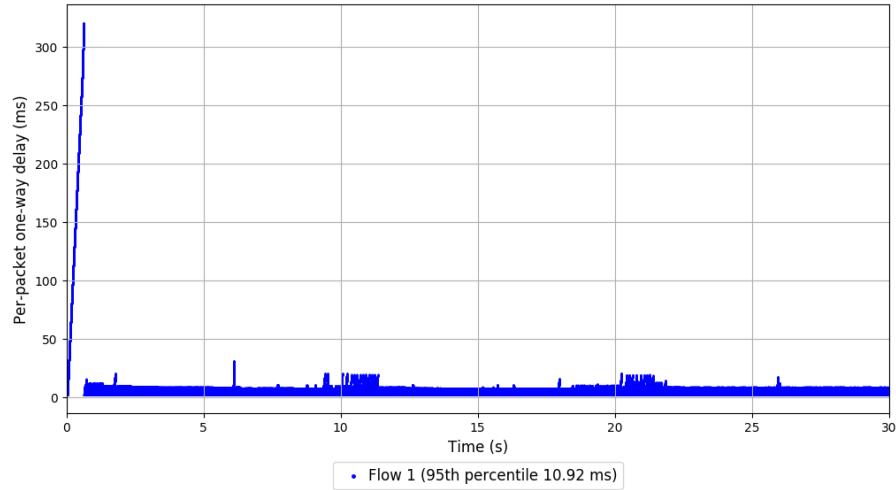
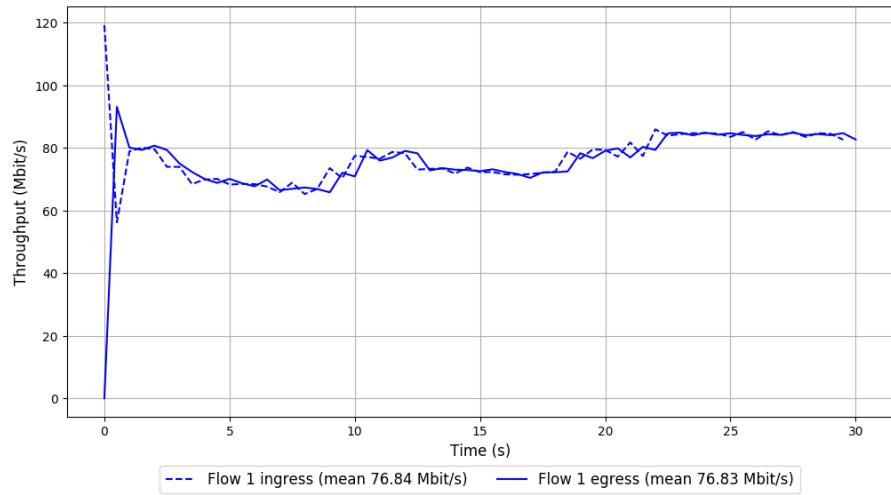


Run 3: Statistics of Verus

```
Start at: 2019-03-19 09:30:20
End at: 2019-03-19 09:30:50
Local clock offset: -6.489 ms
Remote clock offset: 0.199 ms

# Below is generated by plot.py at 2019-03-19 10:49:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.83 Mbit/s
95th percentile per-packet one-way delay: 10.917 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 76.83 Mbit/s
95th percentile per-packet one-way delay: 10.917 ms
Loss rate: 0.03%
```

Run 3: Report of Verus — Data Link

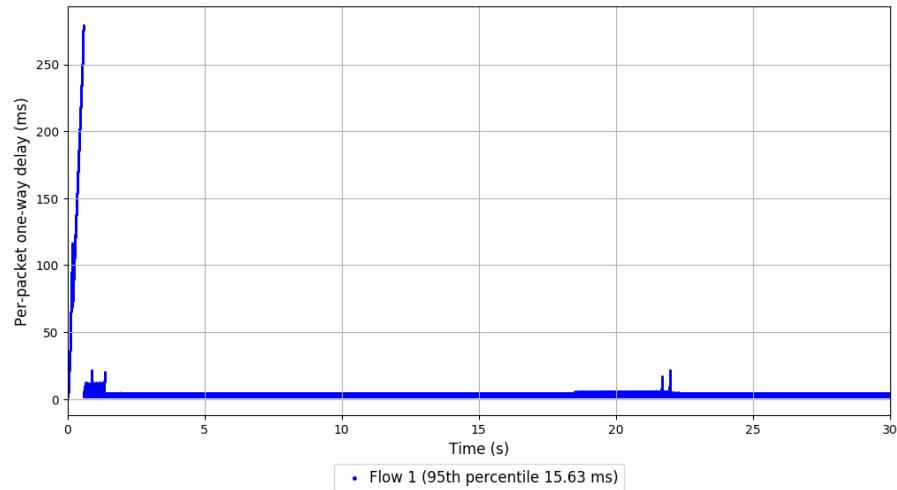
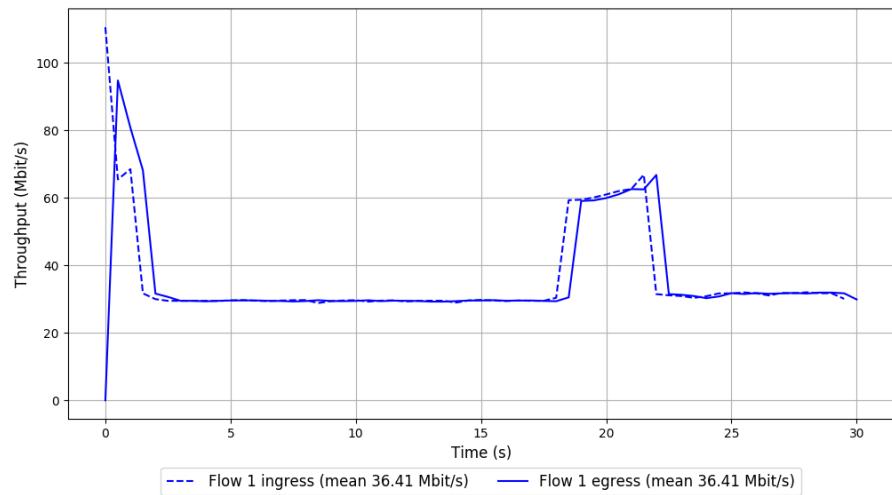


Run 4: Statistics of Verus

```
Start at: 2019-03-19 09:54:04
End at: 2019-03-19 09:54:34
Local clock offset: -7.989 ms
Remote clock offset: 0.372 ms

# Below is generated by plot.py at 2019-03-19 10:49:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.41 Mbit/s
95th percentile per-packet one-way delay: 15.632 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 36.41 Mbit/s
95th percentile per-packet one-way delay: 15.632 ms
Loss rate: 0.02%
```

Run 4: Report of Verus — Data Link

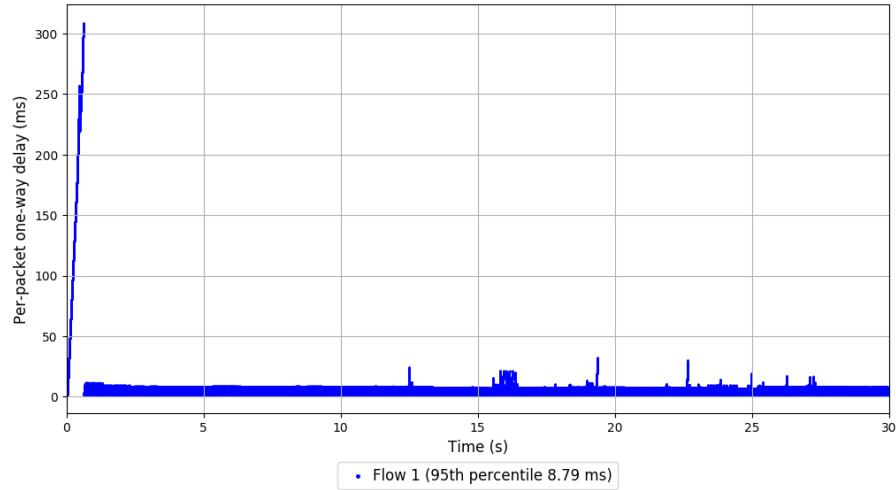
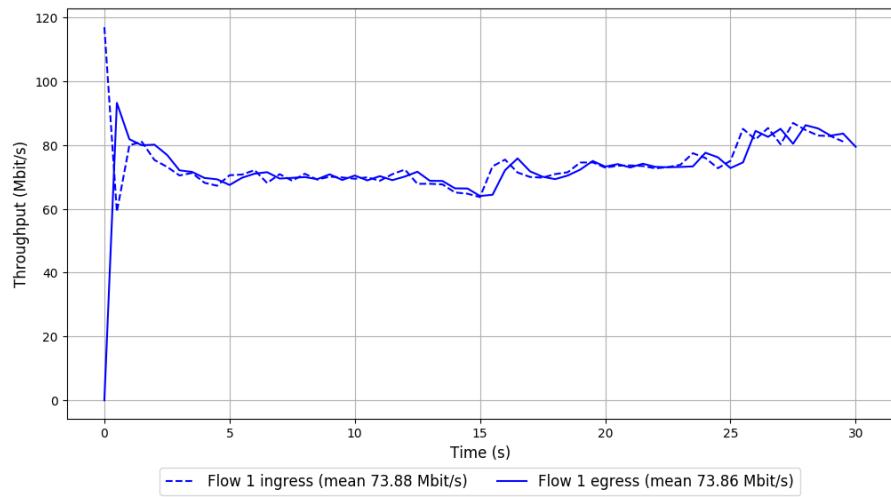


Run 5: Statistics of Verus

```
Start at: 2019-03-19 10:17:47
End at: 2019-03-19 10:18:17
Local clock offset: -8.144 ms
Remote clock offset: 0.416 ms

# Below is generated by plot.py at 2019-03-19 10:49:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.86 Mbit/s
95th percentile per-packet one-way delay: 8.789 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 73.86 Mbit/s
95th percentile per-packet one-way delay: 8.789 ms
Loss rate: 0.04%
```

Run 5: Report of Verus — Data Link

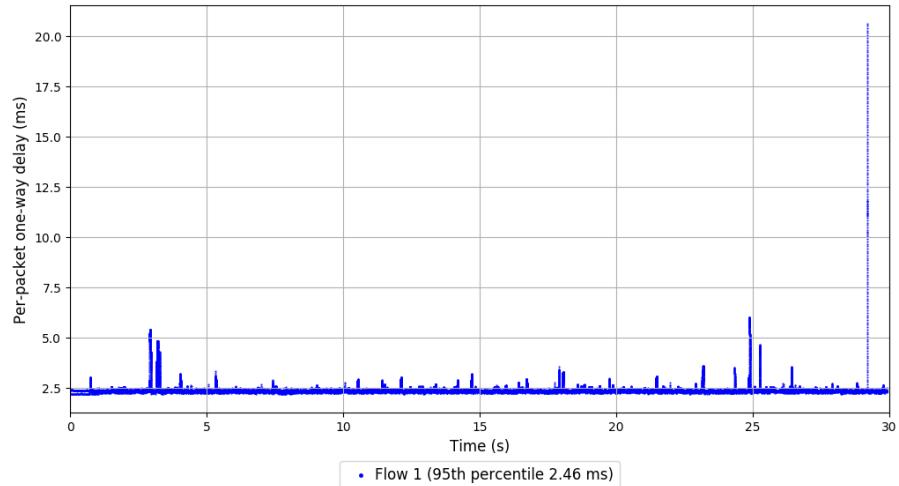
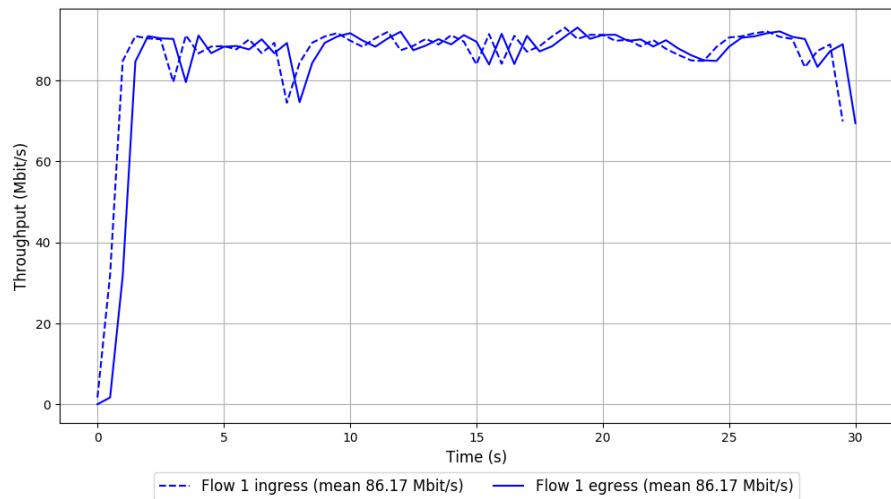


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-03-19 08:41:42
End at: 2019-03-19 08:42:12
Local clock offset: -4.571 ms
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2019-03-19 10:50:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.17 Mbit/s
95th percentile per-packet one-way delay: 2.457 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 86.17 Mbit/s
95th percentile per-packet one-way delay: 2.457 ms
Loss rate: 0.02%
```

Run 1: Report of PCC-Vivace — Data Link

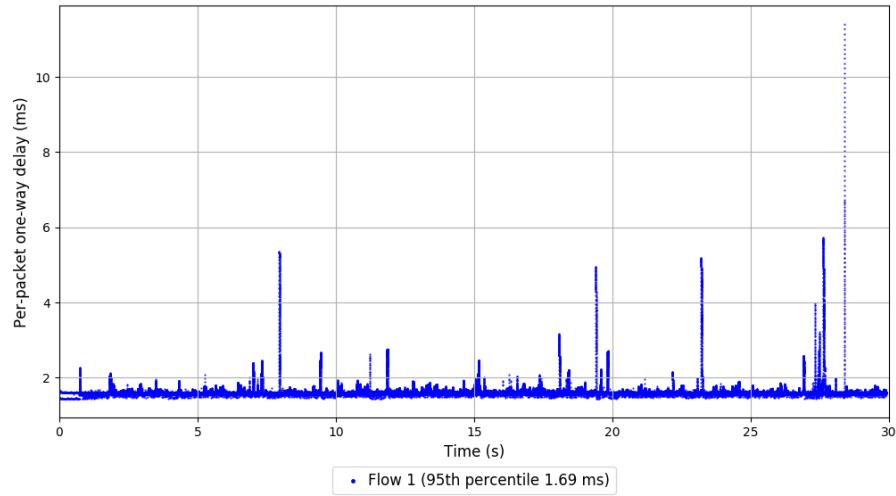
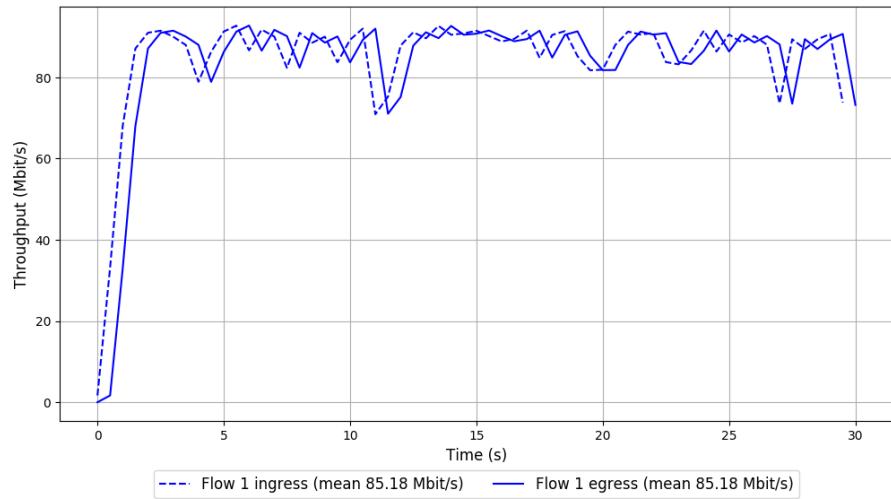


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-19 09:05:27
End at: 2019-03-19 09:05:57
Local clock offset: -5.646 ms
Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2019-03-19 10:50:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.18 Mbit/s
95th percentile per-packet one-way delay: 1.690 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 85.18 Mbit/s
95th percentile per-packet one-way delay: 1.690 ms
Loss rate: 0.02%
```

Run 2: Report of PCC-Vivace — Data Link

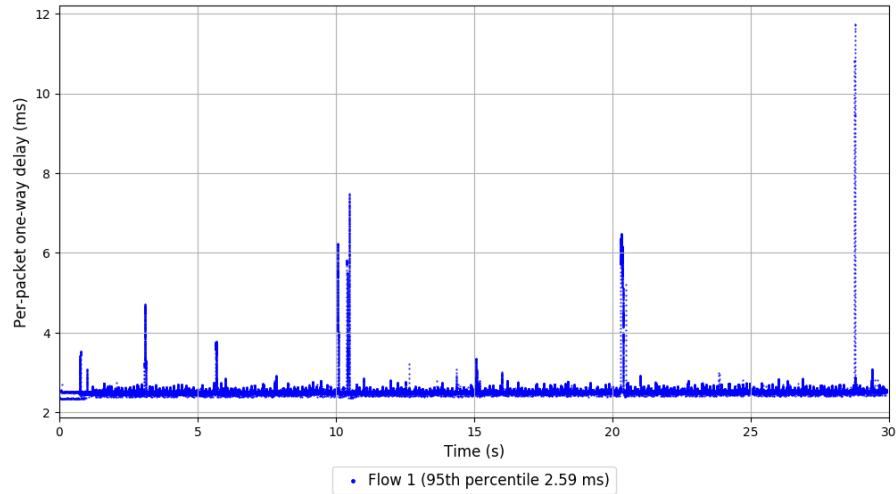
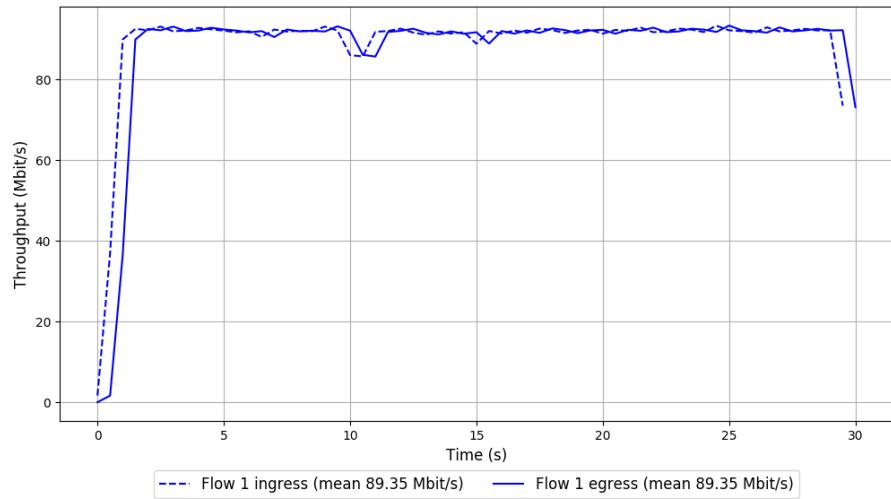


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-19 09:29:10
End at: 2019-03-19 09:29:40
Local clock offset: -6.379 ms
Remote clock offset: 0.16 ms

# Below is generated by plot.py at 2019-03-19 10:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.35 Mbit/s
95th percentile per-packet one-way delay: 2.587 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 89.35 Mbit/s
95th percentile per-packet one-way delay: 2.587 ms
Loss rate: 0.02%
```

Run 3: Report of PCC-Vivace — Data Link

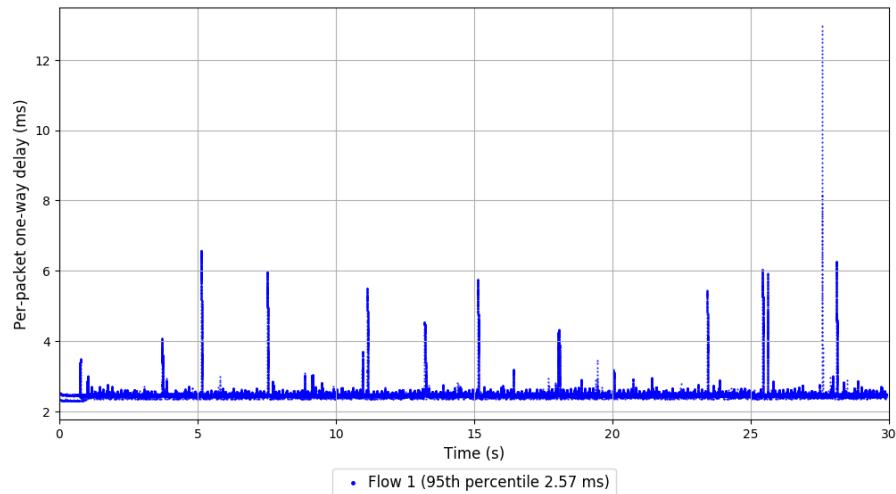
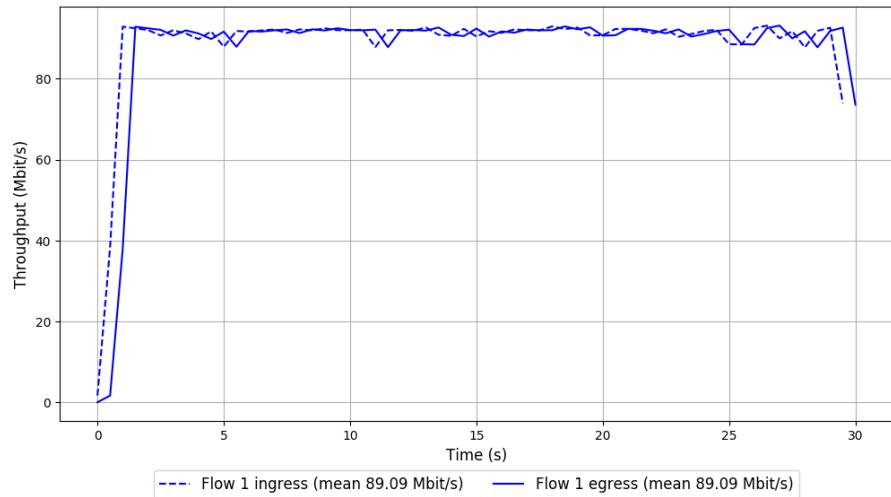


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-19 09:52:55
End at: 2019-03-19 09:53:25
Local clock offset: -7.23 ms
Remote clock offset: 0.3 ms

# Below is generated by plot.py at 2019-03-19 10:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.09 Mbit/s
95th percentile per-packet one-way delay: 2.566 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 89.09 Mbit/s
95th percentile per-packet one-way delay: 2.566 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Vivace — Data Link

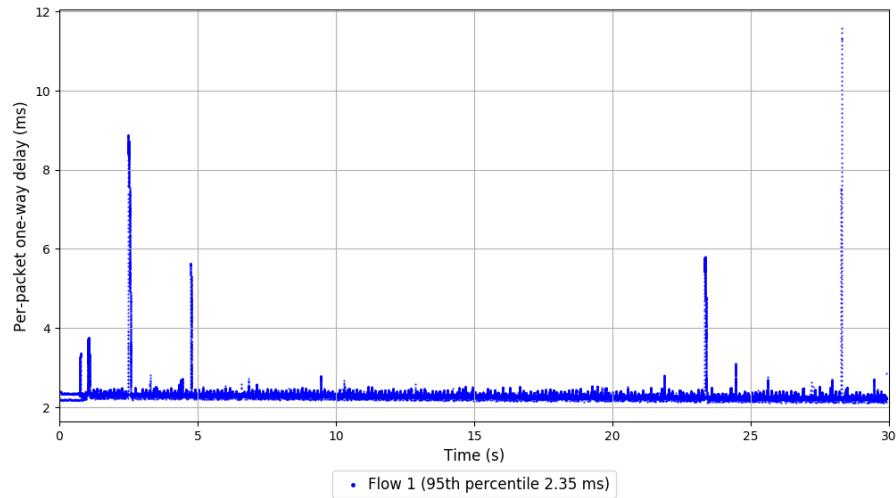
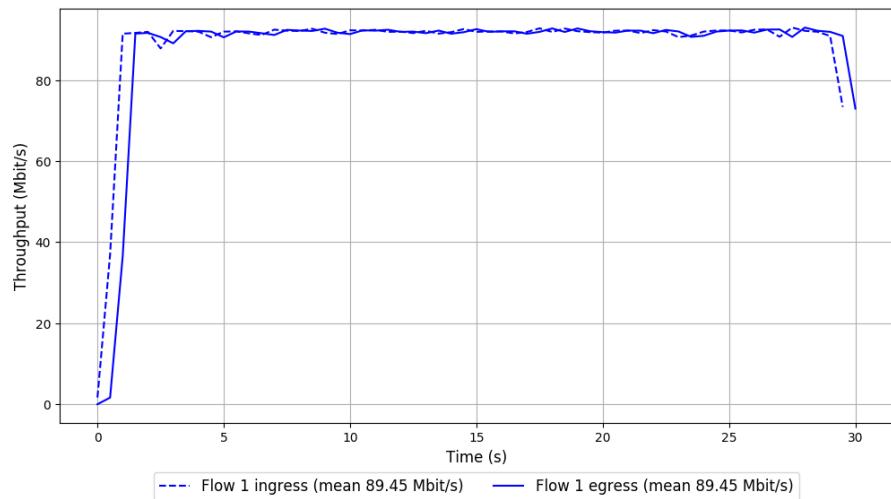


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-19 10:16:38
End at: 2019-03-19 10:17:08
Local clock offset: -7.612 ms
Remote clock offset: 0.464 ms

# Below is generated by plot.py at 2019-03-19 10:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.45 Mbit/s
95th percentile per-packet one-way delay: 2.351 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 89.45 Mbit/s
95th percentile per-packet one-way delay: 2.351 ms
Loss rate: 0.02%
```

Run 5: Report of PCC-Vivace — Data Link

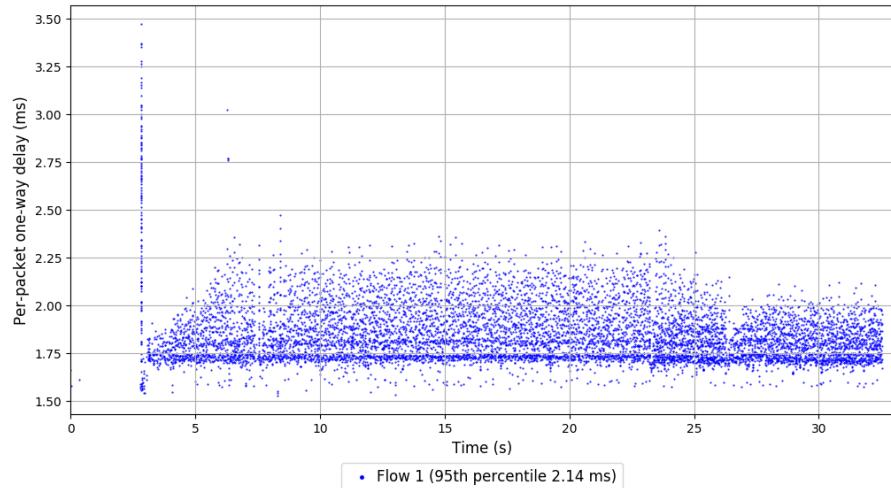
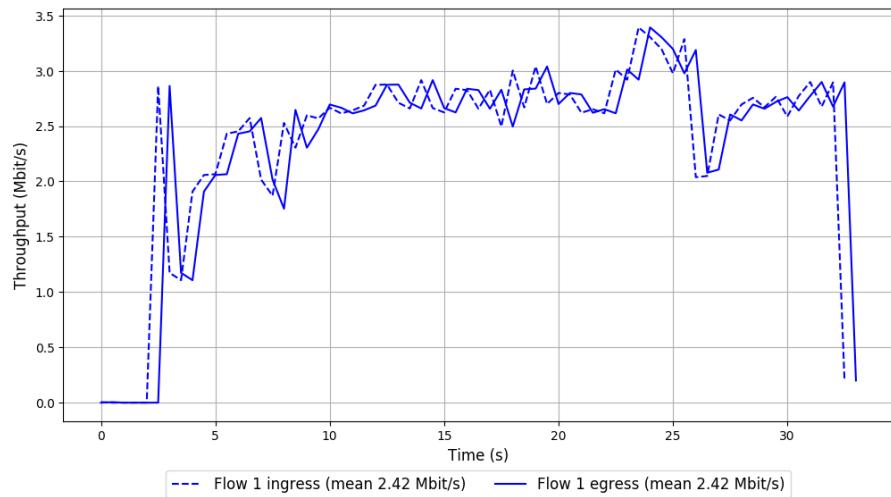


```
Run 1: Statistics of WebRTC media

Start at: 2019-03-19 08:39:29
End at: 2019-03-19 08:39:59
Local clock offset: -5.301 ms
Remote clock offset: -0.25 ms

# Below is generated by plot.py at 2019-03-19 10:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 2.144 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 2.144 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

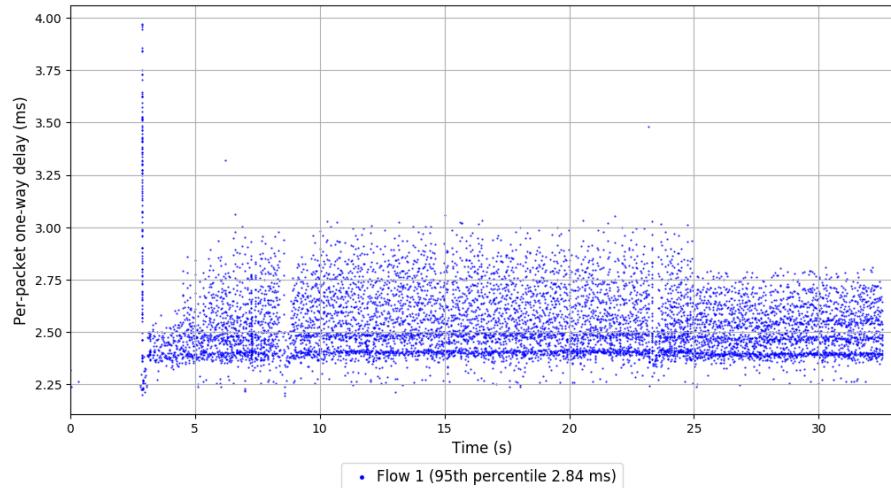
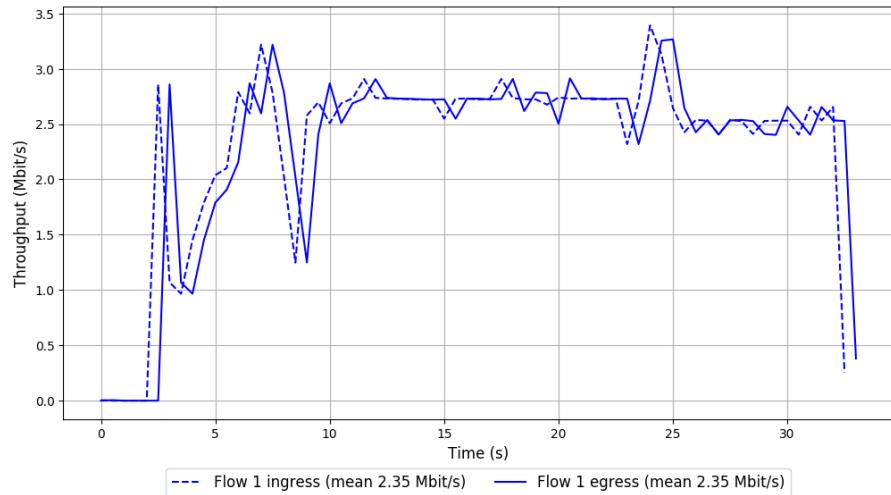


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-19 09:03:14
End at: 2019-03-19 09:03:44
Local clock offset: -4.923 ms
Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2019-03-19 10:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.837 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.837 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

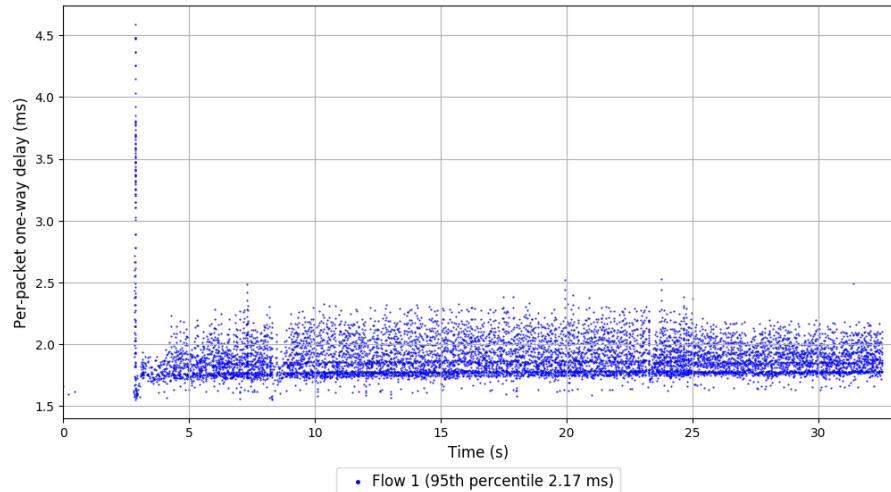
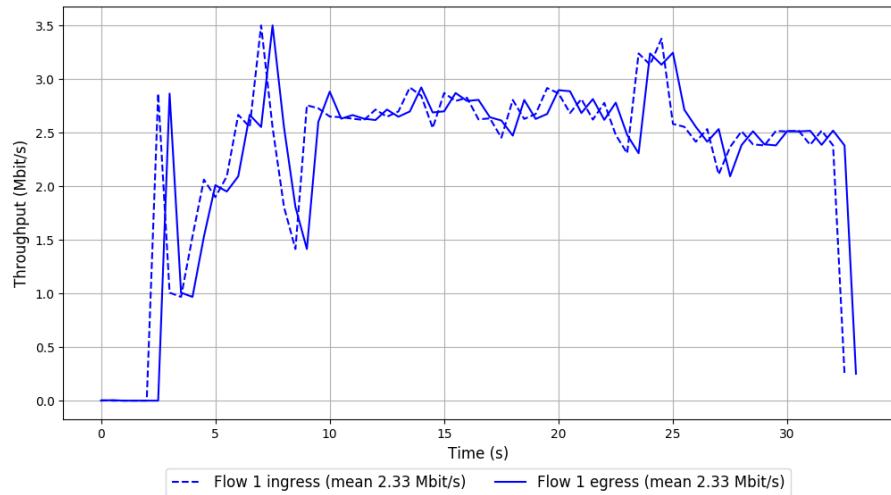


Run 3: Statistics of WebRTC media

```
Start at: 2019-03-19 09:26:58
End at: 2019-03-19 09:27:28
Local clock offset: -6.975 ms
Remote clock offset: 0.2 ms

# Below is generated by plot.py at 2019-03-19 10:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 2.168 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 2.168 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

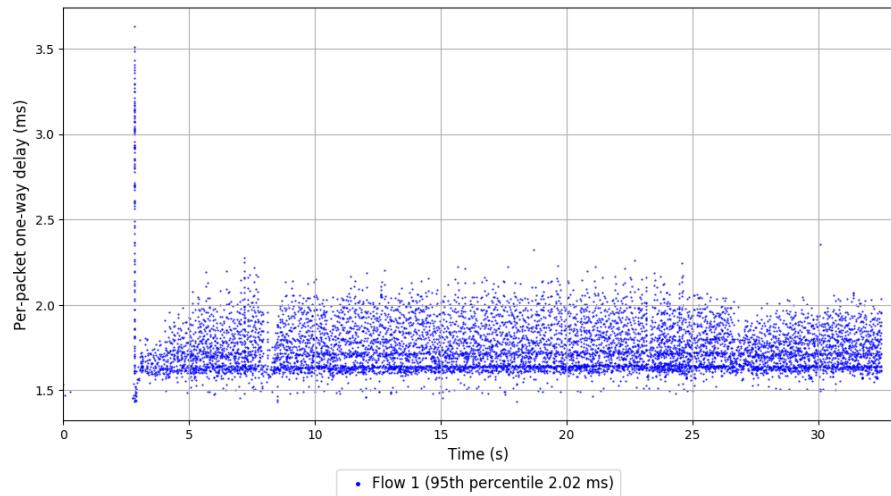
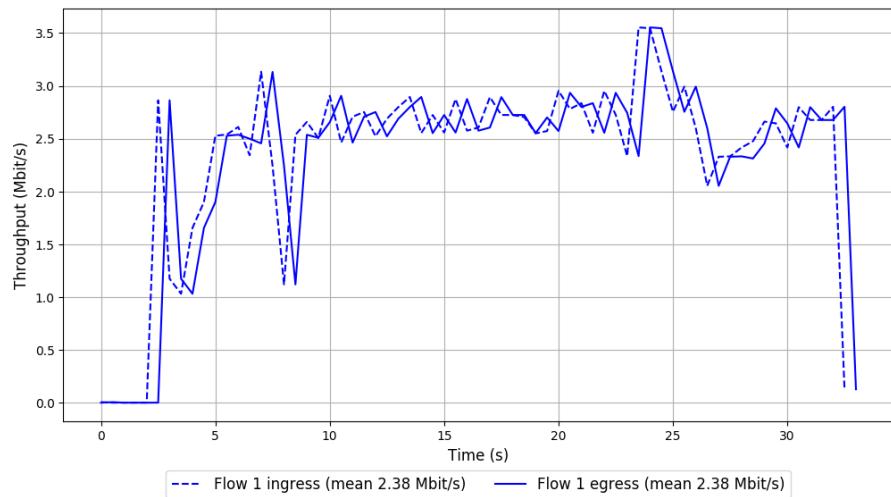


Run 4: Statistics of WebRTC media

```
Start at: 2019-03-19 09:50:43
End at: 2019-03-19 09:51:13
Local clock offset: -7.999 ms
Remote clock offset: 0.336 ms

# Below is generated by plot.py at 2019-03-19 10:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 2.019 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 2.019 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-03-19 10:14:25
End at: 2019-03-19 10:14:55
Local clock offset: -8.464 ms
Remote clock offset: 0.506 ms

# Below is generated by plot.py at 2019-03-19 10:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.056 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.056 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

