

Pantheon Report

Generated at 2019-06-28 09:38:55 (UTC).
Data path: Stanford on `eno1` (*remote*) → AWS California 1 on `ens5` (*local*).
Repeated the test of 22 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

System info:

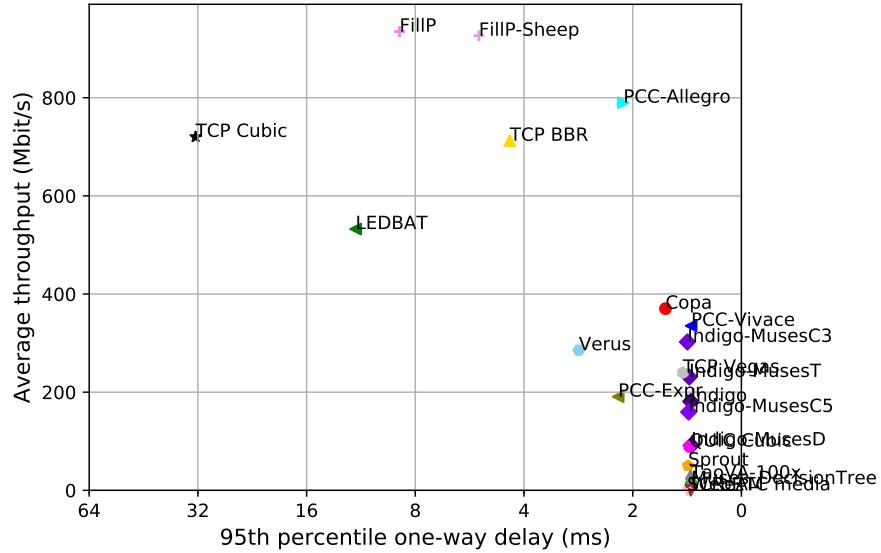
```
Linux 4.15.0-1039-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

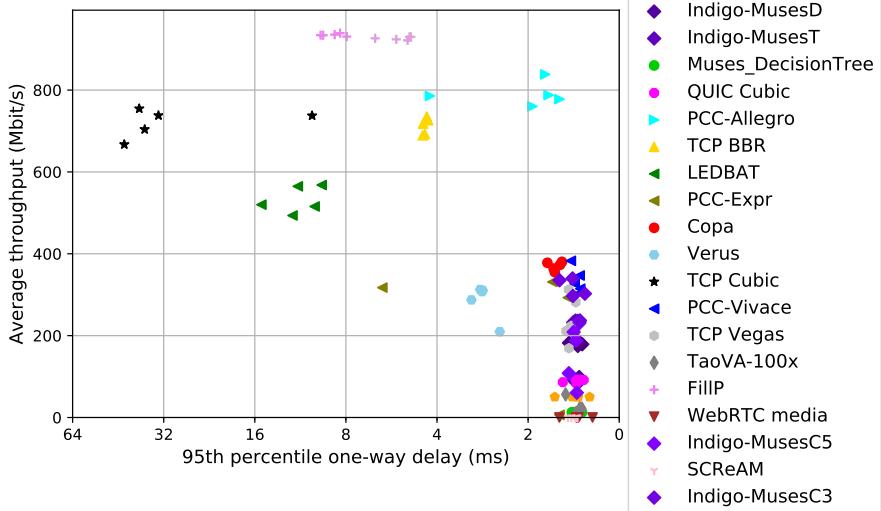
```
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
M helpers/_init_.pyc
M helpers/context.py
M helpers/utils.py
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
```

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

test from Stanford to AWS California 1, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from Stanford to AWS California 1, 5 runs of 30s each per scheme



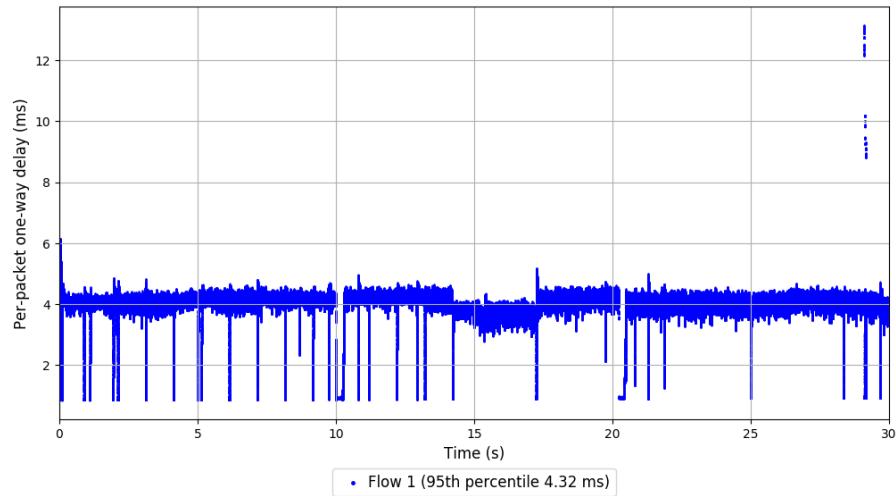
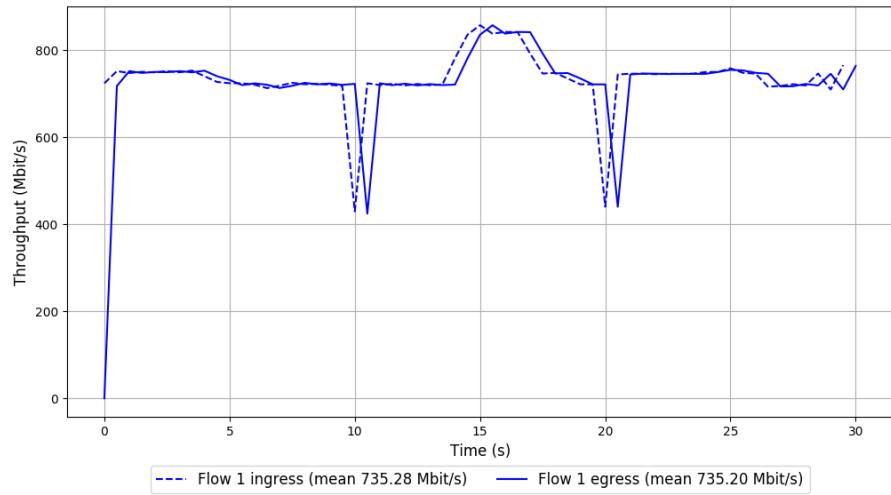
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	712.23	4.38	0.02
Copa	5	370.12	1.40	0.00
TCP Cubic	5	720.16	32.47	0.04
FillP	5	934.62	8.85	0.01
FillP-Sheep	5	926.30	5.34	0.01
Indigo	5	181.09	0.93	0.01
Indigo-MusesC3	5	302.38	0.99	0.01
Indigo-MusesC5	5	159.55	0.97	0.01
Indigo-MusesD	5	91.60	0.92	0.00
Indigo-MusesT	5	230.95	0.96	0.01
LEDBAT	5	532.39	11.71	0.02
Muses_DecisionTree	5	12.91	0.92	0.01
PCC-Allegro	5	789.88	2.12	0.02
PCC-Expr	5	190.83	2.19	0.06
QUIC Cubic	5	89.08	0.96	0.01
SCReAM	5	0.22	1.00	0.05
Sprout	5	50.24	0.98	0.02
TaoVA-100x	5	24.01	0.94	0.00
TCP Vegas	5	239.73	1.08	0.00
Verus	5	285.59	2.82	0.02
PCC-Vivace	5	335.16	0.93	0.01
WebRTC media	5	0.05	0.93	0.01

Run 1: Statistics of TCP BBR

```
Start at: 2019-06-28 06:05:43
End at: 2019-06-28 06:06:13
Local clock offset: 2.892 ms
Remote clock offset: -3.453 ms

# Below is generated by plot.py at 2019-06-28 08:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 735.20 Mbit/s
95th percentile per-packet one-way delay: 4.323 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 735.20 Mbit/s
95th percentile per-packet one-way delay: 4.323 ms
Loss rate: 0.02%
```

Run 1: Report of TCP BBR — Data Link

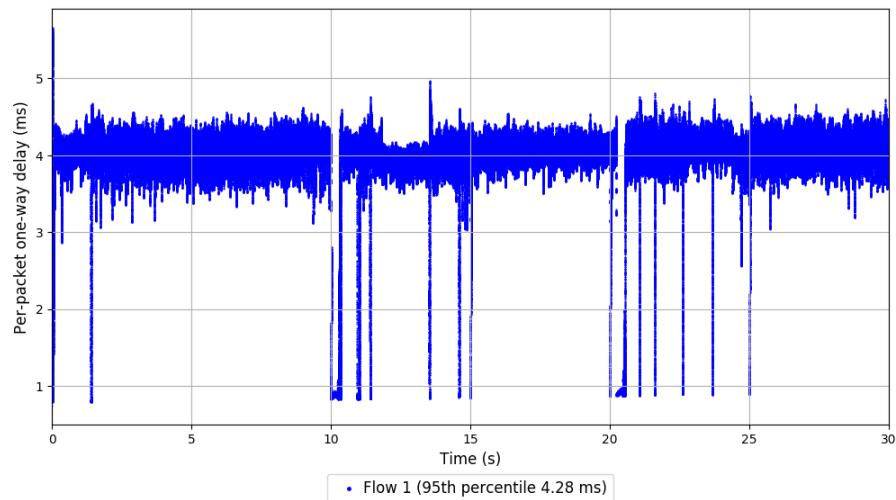
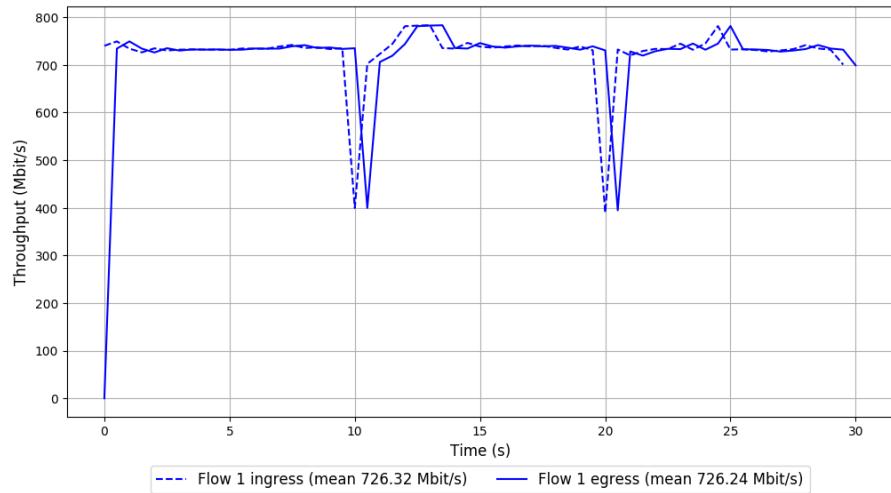


Run 2: Statistics of TCP BBR

```
Start at: 2019-06-28 06:36:38
End at: 2019-06-28 06:37:08
Local clock offset: 2.662 ms
Remote clock offset: -1.632 ms

# Below is generated by plot.py at 2019-06-28 08:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 726.24 Mbit/s
95th percentile per-packet one-way delay: 4.277 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 726.24 Mbit/s
95th percentile per-packet one-way delay: 4.277 ms
Loss rate: 0.02%
```

Run 2: Report of TCP BBR — Data Link

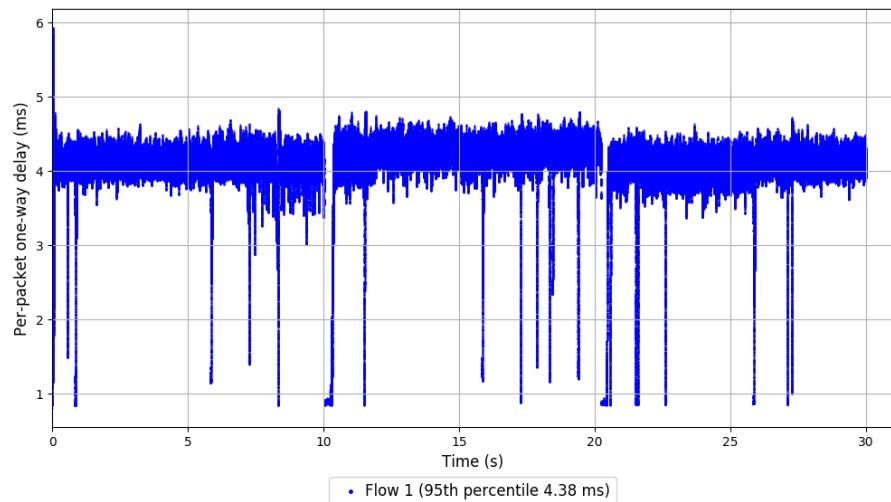
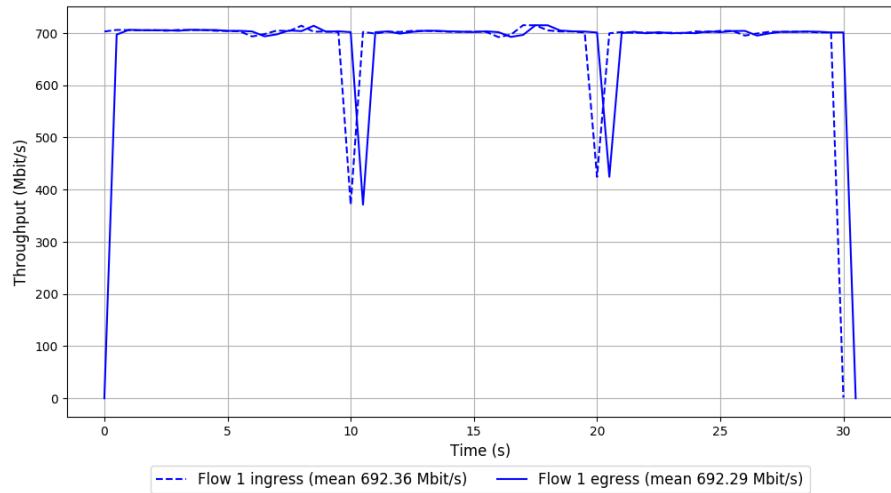


Run 3: Statistics of TCP BBR

```
Start at: 2019-06-28 07:07:44
End at: 2019-06-28 07:08:14
Local clock offset: 3.766 ms
Remote clock offset: 1.301 ms

# Below is generated by plot.py at 2019-06-28 08:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 692.29 Mbit/s
95th percentile per-packet one-way delay: 4.385 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 692.29 Mbit/s
95th percentile per-packet one-way delay: 4.385 ms
Loss rate: 0.02%
```

Run 3: Report of TCP BBR — Data Link

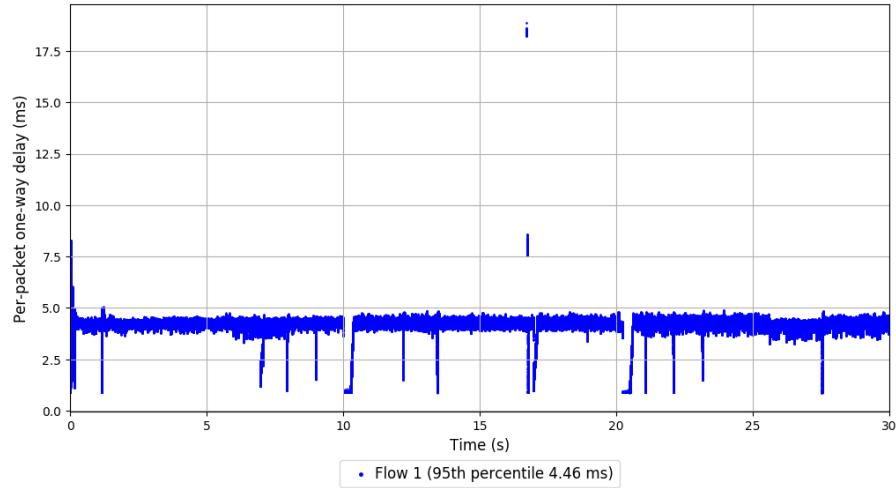
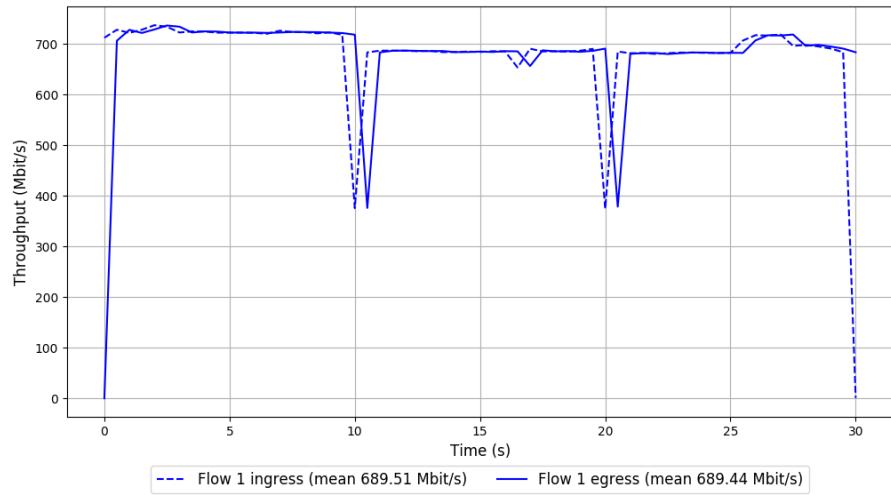


Run 4: Statistics of TCP BBR

```
Start at: 2019-06-28 07:38:50
End at: 2019-06-28 07:39:20
Local clock offset: 2.801 ms
Remote clock offset: -3.39 ms

# Below is generated by plot.py at 2019-06-28 08:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 689.44 Mbit/s
95th percentile per-packet one-way delay: 4.457 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 689.44 Mbit/s
95th percentile per-packet one-way delay: 4.457 ms
Loss rate: 0.02%
```

Run 4: Report of TCP BBR — Data Link

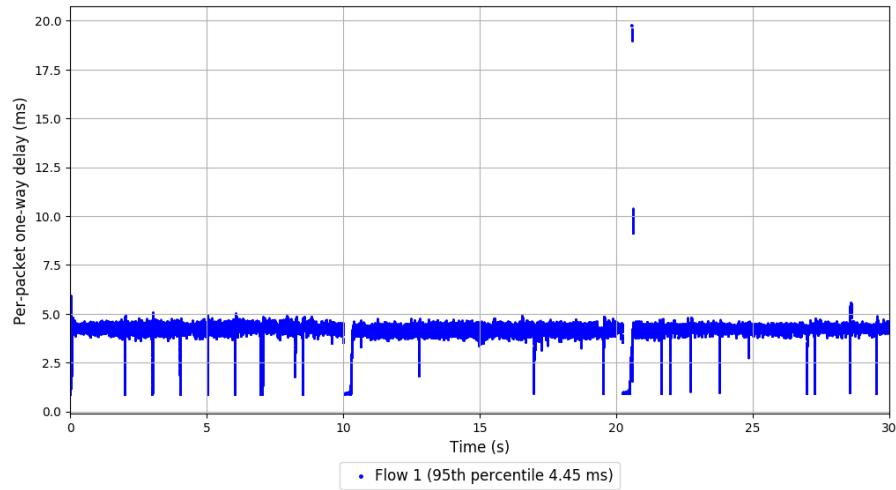
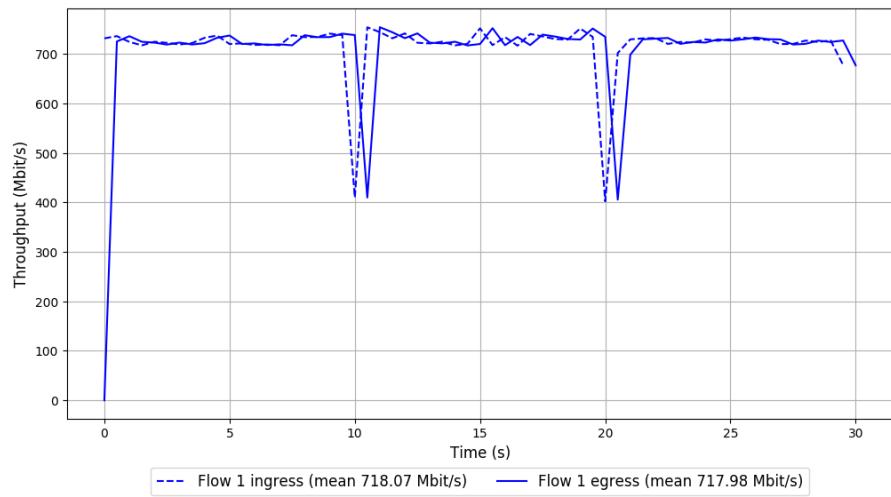


Run 5: Statistics of TCP BBR

```
Start at: 2019-06-28 08:09:31
End at: 2019-06-28 08:10:01
Local clock offset: -0.624 ms
Remote clock offset: 1.177 ms

# Below is generated by plot.py at 2019-06-28 08:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 717.98 Mbit/s
95th percentile per-packet one-way delay: 4.446 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 717.98 Mbit/s
95th percentile per-packet one-way delay: 4.446 ms
Loss rate: 0.02%
```

Run 5: Report of TCP BBR — Data Link

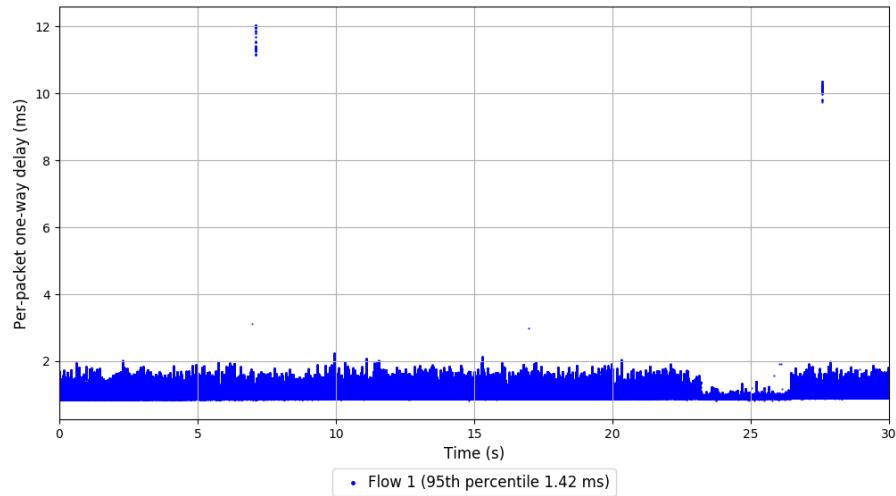
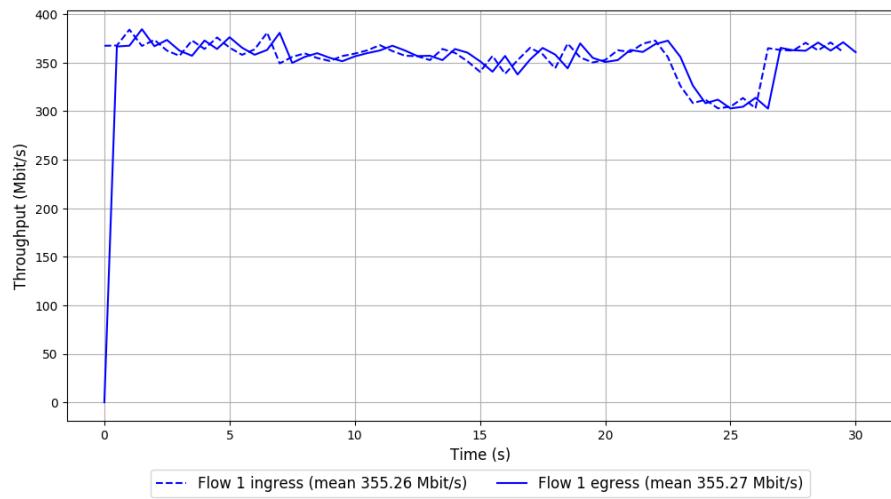


Run 1: Statistics of Copa

```
Start at: 2019-06-28 06:11:40
End at: 2019-06-28 06:12:10
Local clock offset: 2.891 ms
Remote clock offset: -2.772 ms

# Below is generated by plot.py at 2019-06-28 08:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.27 Mbit/s
95th percentile per-packet one-way delay: 1.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 355.27 Mbit/s
95th percentile per-packet one-way delay: 1.415 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link

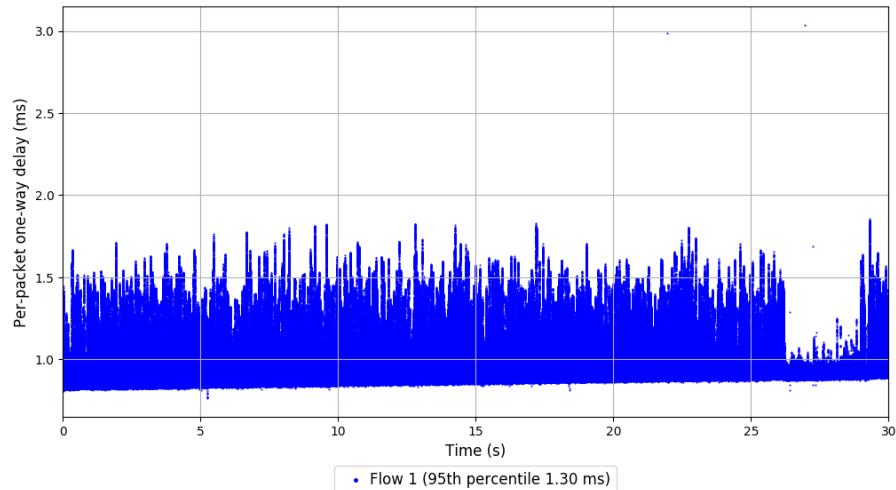
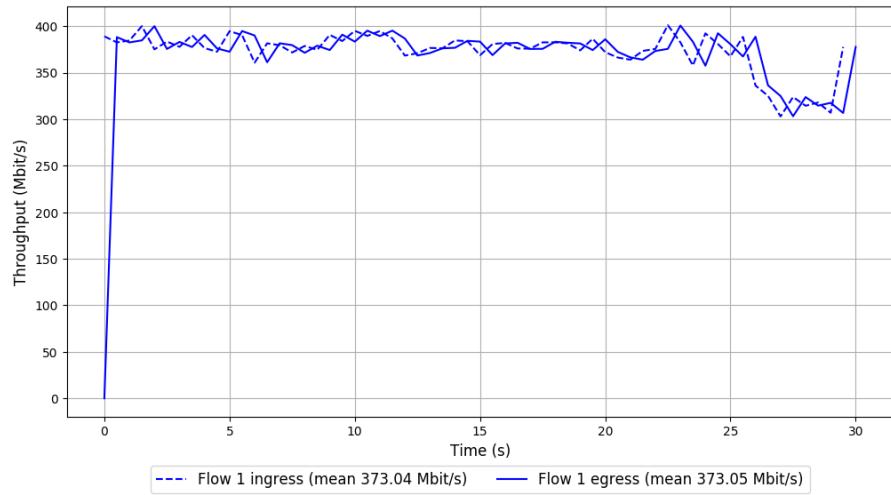


Run 2: Statistics of Copa

```
Start at: 2019-06-28 06:42:38
End at: 2019-06-28 06:43:08
Local clock offset: 2.704 ms
Remote clock offset: -0.453 ms

# Below is generated by plot.py at 2019-06-28 08:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 373.05 Mbit/s
95th percentile per-packet one-way delay: 1.299 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 373.05 Mbit/s
95th percentile per-packet one-way delay: 1.299 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link

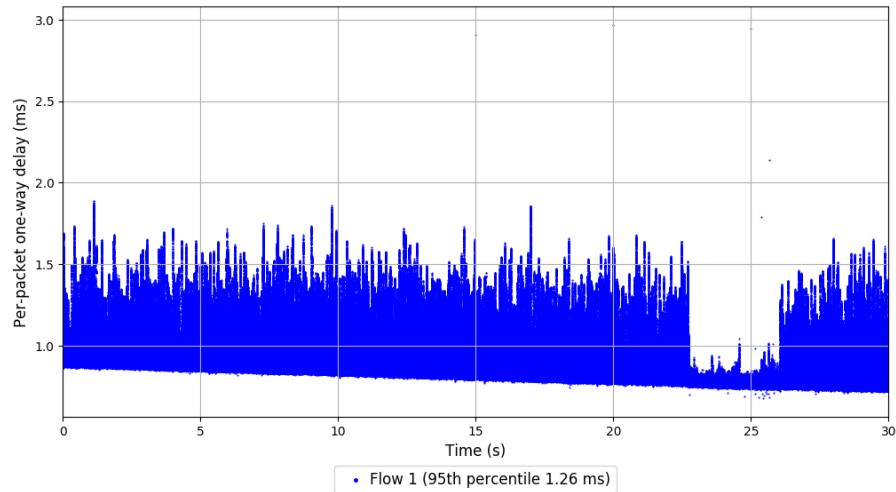
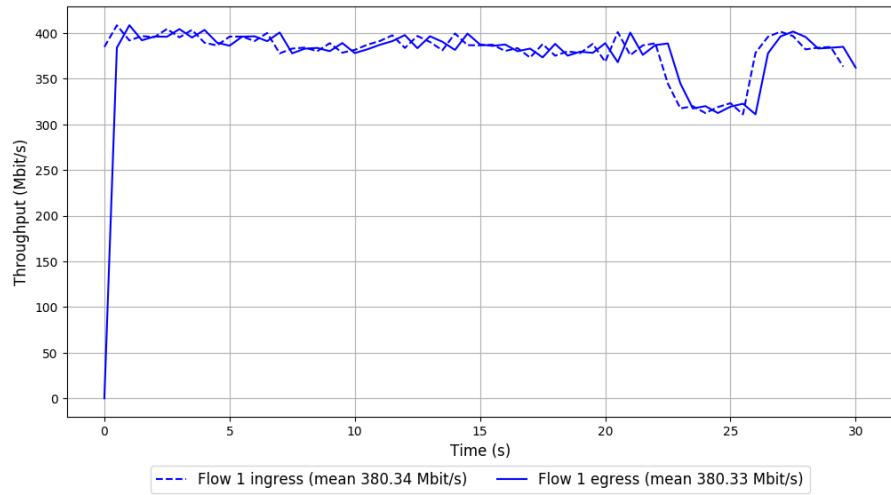


Run 3: Statistics of Copa

```
Start at: 2019-06-28 07:13:40
End at: 2019-06-28 07:14:10
Local clock offset: 3.883 ms
Remote clock offset: -0.475 ms

# Below is generated by plot.py at 2019-06-28 08:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.33 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 380.33 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.01%
```

Run 3: Report of Copa — Data Link

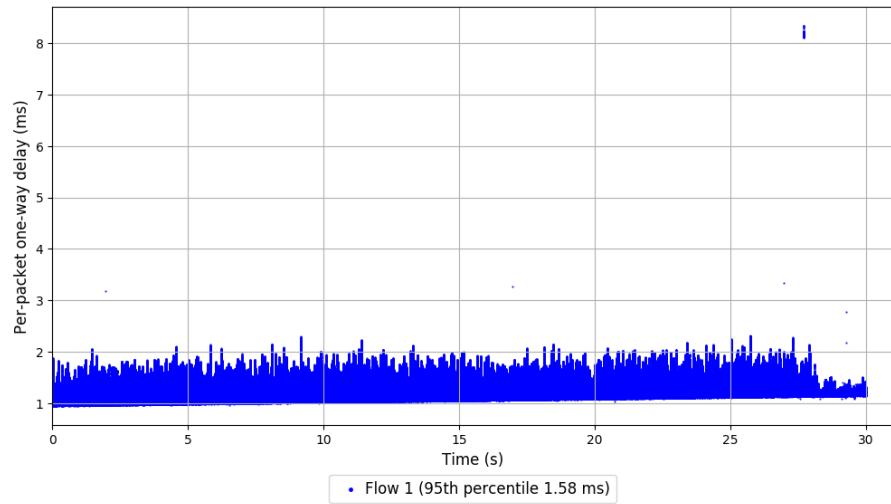
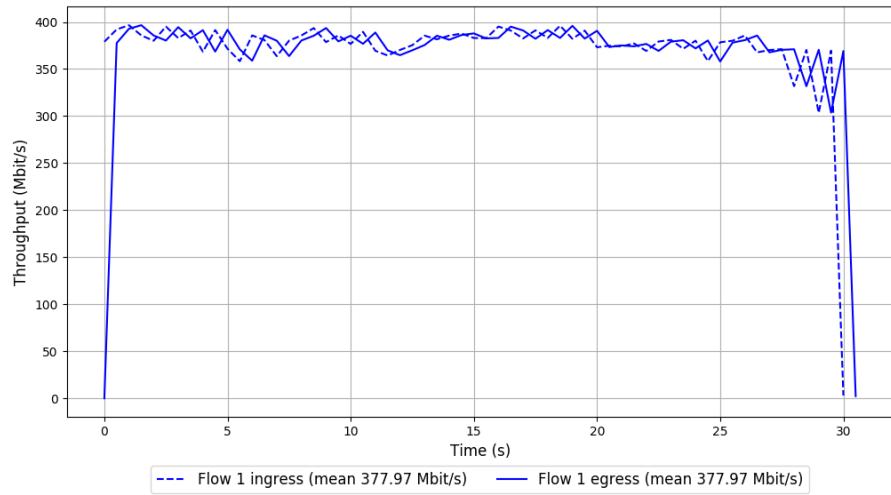


Run 4: Statistics of Copa

```
Start at: 2019-06-28 07:44:35
End at: 2019-06-28 07:45:05
Local clock offset: 2.767 ms
Remote clock offset: -3.029 ms

# Below is generated by plot.py at 2019-06-28 08:55:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 377.97 Mbit/s
95th percentile per-packet one-way delay: 1.577 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 377.97 Mbit/s
95th percentile per-packet one-way delay: 1.577 ms
Loss rate: 0.01%
```

Run 4: Report of Copa — Data Link

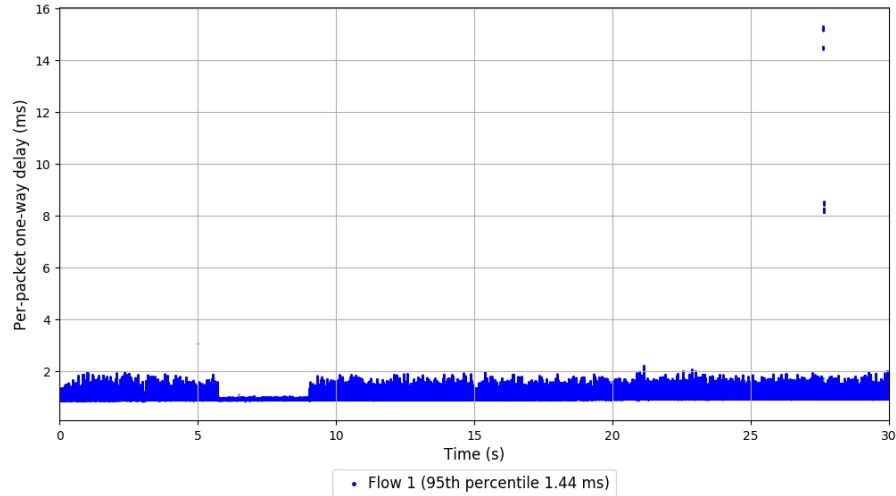
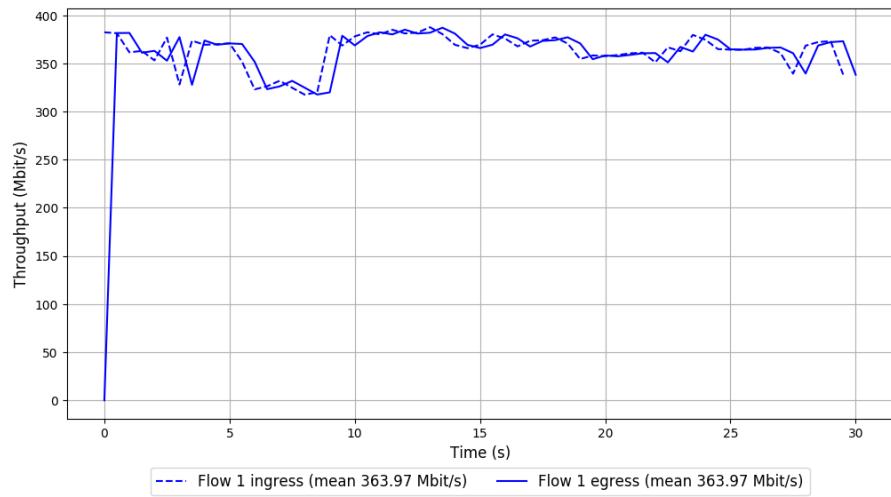


Run 5: Statistics of Copa

```
Start at: 2019-06-28 08:15:27
End at: 2019-06-28 08:15:57
Local clock offset: -0.967 ms
Remote clock offset: 1.573 ms

# Below is generated by plot.py at 2019-06-28 08:55:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 363.97 Mbit/s
95th percentile per-packet one-way delay: 1.439 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 363.97 Mbit/s
95th percentile per-packet one-way delay: 1.439 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

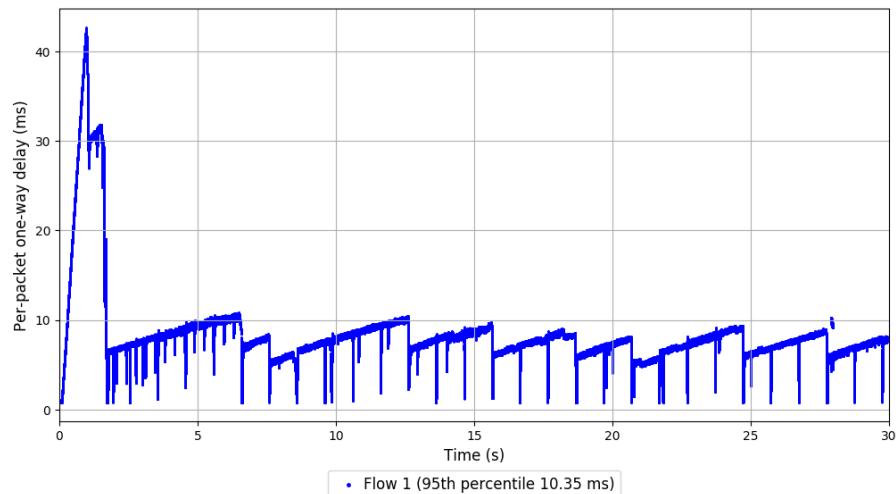
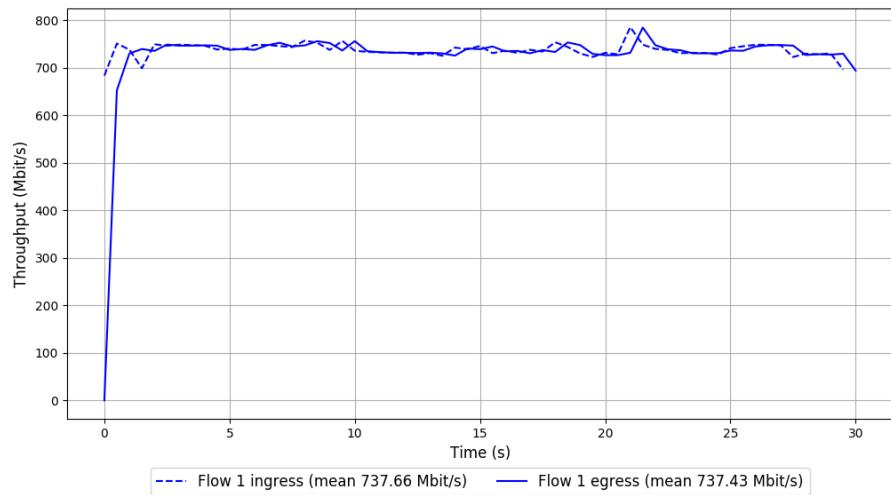


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-06-28 06:22:15
End at: 2019-06-28 06:22:45
Local clock offset: 2.801 ms
Remote clock offset: -2.292 ms

# Below is generated by plot.py at 2019-06-28 08:56:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 737.43 Mbit/s
95th percentile per-packet one-way delay: 10.346 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 737.43 Mbit/s
95th percentile per-packet one-way delay: 10.346 ms
Loss rate: 0.04%
```

Run 1: Report of TCP Cubic — Data Link

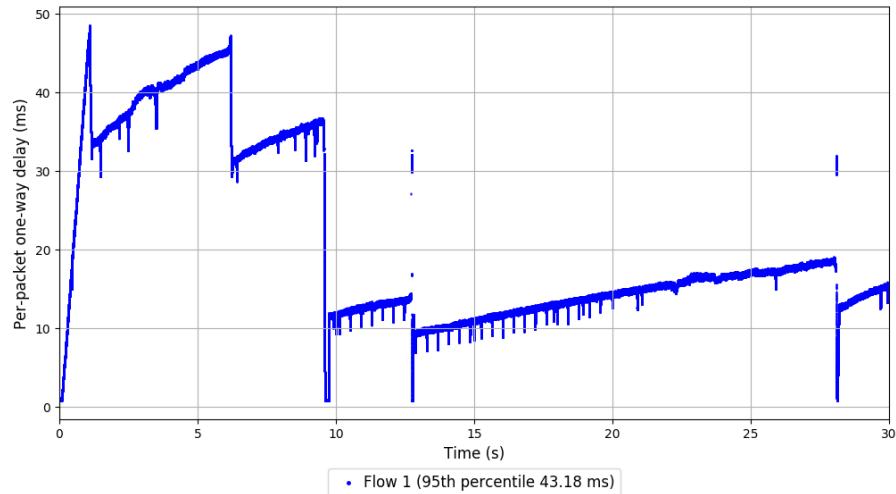
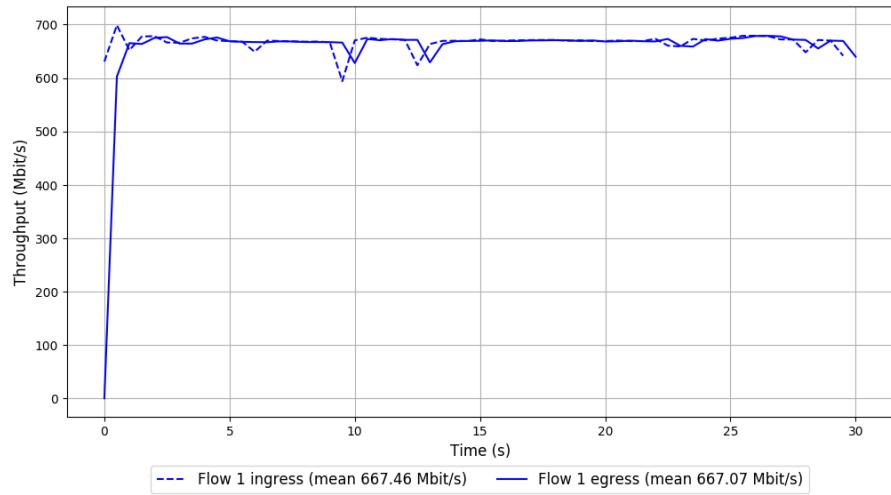


Run 2: Statistics of TCP Cubic

```
Start at: 2019-06-28 06:53:27
End at: 2019-06-28 06:53:57
Local clock offset: 3.184 ms
Remote clock offset: 0.561 ms

# Below is generated by plot.py at 2019-06-28 08:56:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 667.07 Mbit/s
95th percentile per-packet one-way delay: 43.184 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 667.07 Mbit/s
95th percentile per-packet one-way delay: 43.184 ms
Loss rate: 0.06%
```

Run 2: Report of TCP Cubic — Data Link

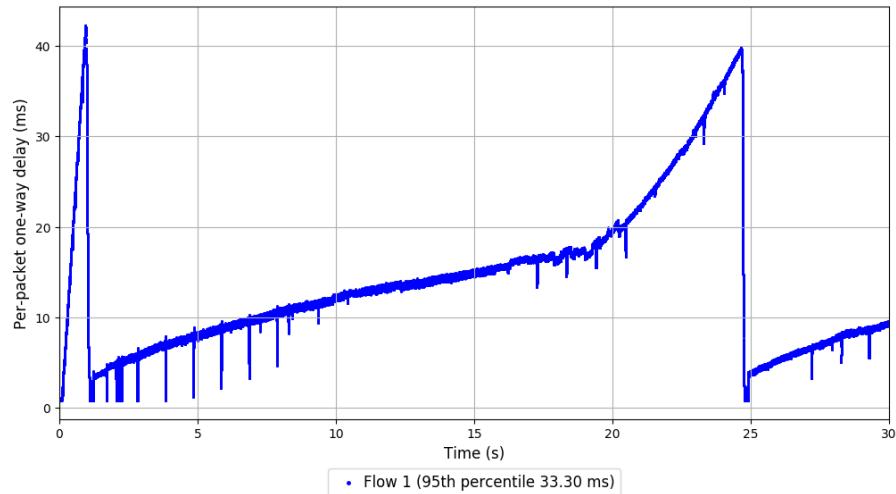
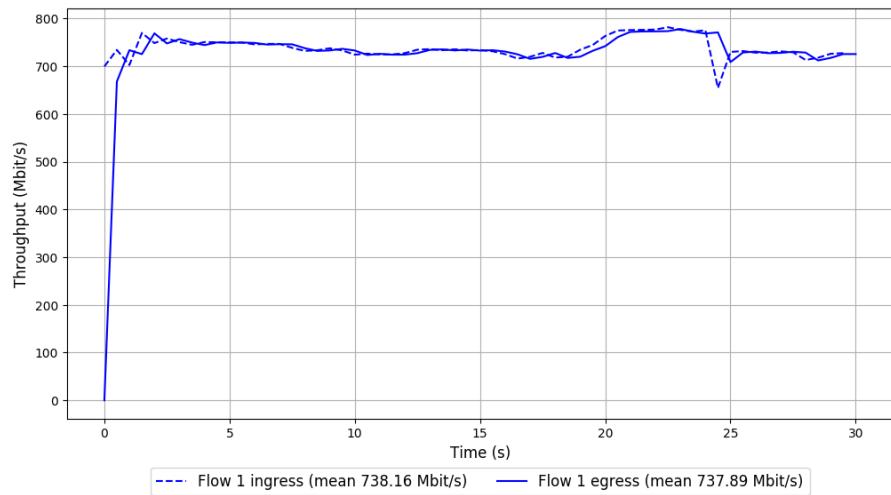


```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2019-06-28 07:24:32
End at: 2019-06-28 07:25:02
Local clock offset: 3.339 ms
Remote clock offset: -2.421 ms

# Below is generated by plot.py at 2019-06-28 08:56:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 737.89 Mbit/s
95th percentile per-packet one-way delay: 33.301 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 737.89 Mbit/s
95th percentile per-packet one-way delay: 33.301 ms
Loss rate: 0.04%
```

Run 3: Report of TCP Cubic — Data Link

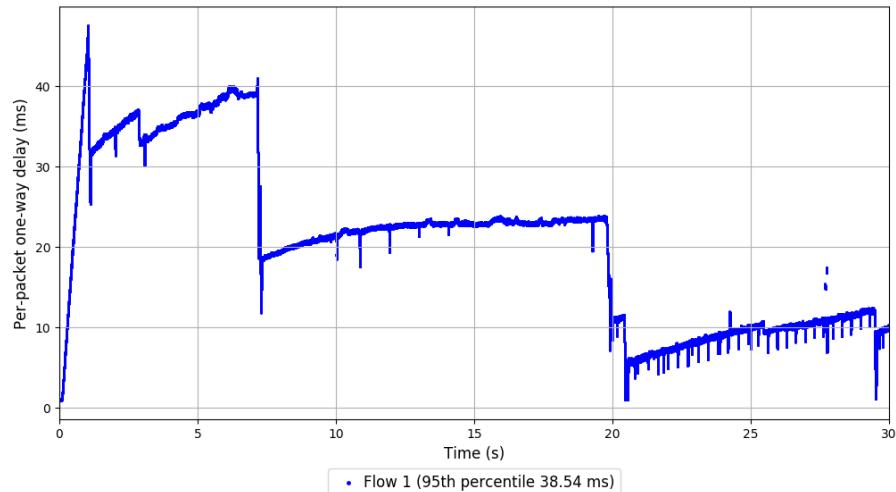
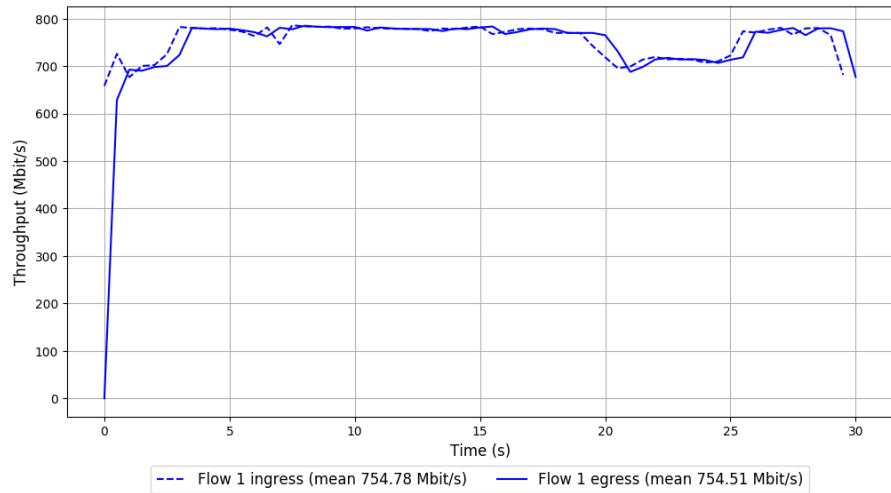


Run 4: Statistics of TCP Cubic

```
Start at: 2019-06-28 07:55:14
End at: 2019-06-28 07:55:44
Local clock offset: 0.95 ms
Remote clock offset: -0.268 ms

# Below is generated by plot.py at 2019-06-28 08:56:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 754.51 Mbit/s
95th percentile per-packet one-way delay: 38.536 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 754.51 Mbit/s
95th percentile per-packet one-way delay: 38.536 ms
Loss rate: 0.04%
```

Run 4: Report of TCP Cubic — Data Link

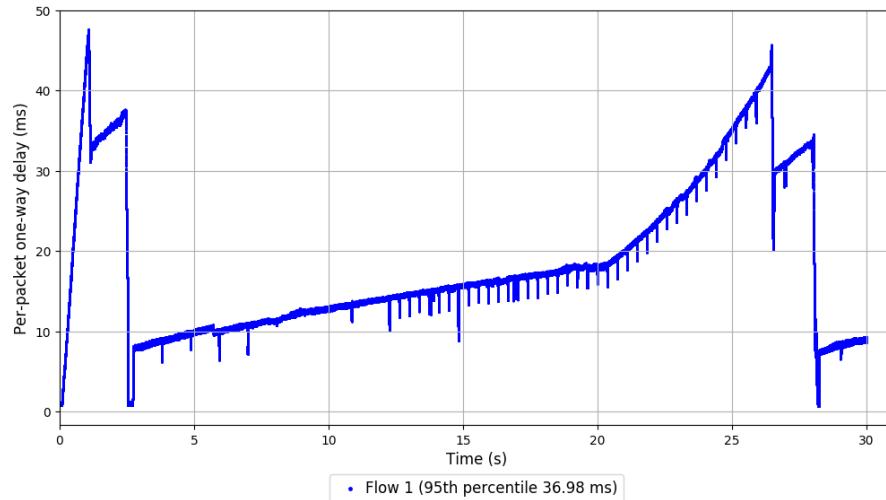
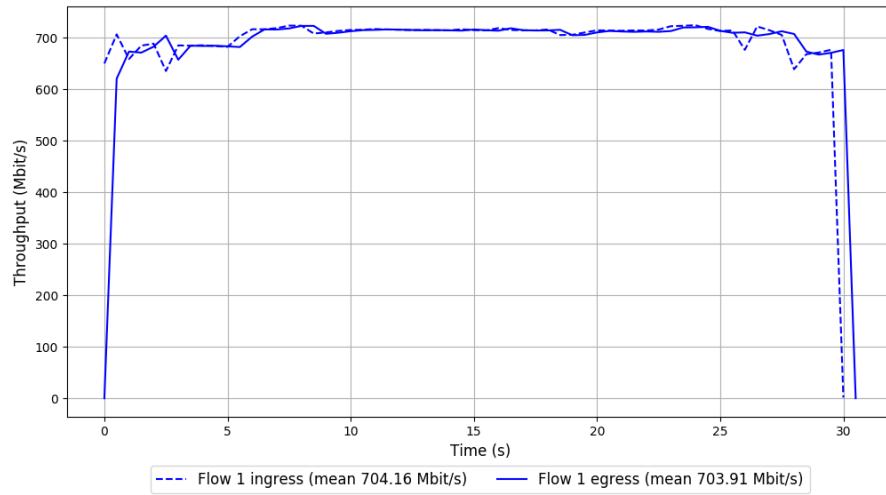


Run 5: Statistics of TCP Cubic

```
Start at: 2019-06-28 08:26:21
End at: 2019-06-28 08:26:51
Local clock offset: 0.293 ms
Remote clock offset: -1.533 ms

# Below is generated by plot.py at 2019-06-28 08:56:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 703.91 Mbit/s
95th percentile per-packet one-way delay: 36.980 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 703.91 Mbit/s
95th percentile per-packet one-way delay: 36.980 ms
Loss rate: 0.04%
```

Run 5: Report of TCP Cubic — Data Link

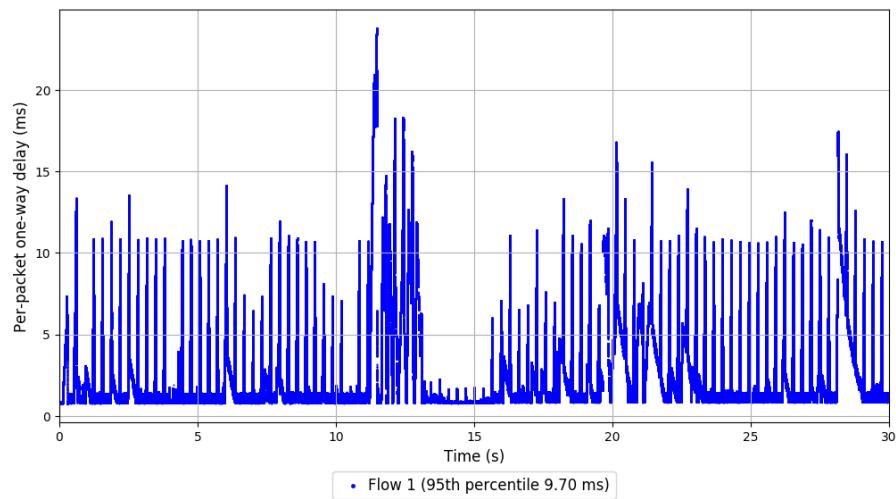
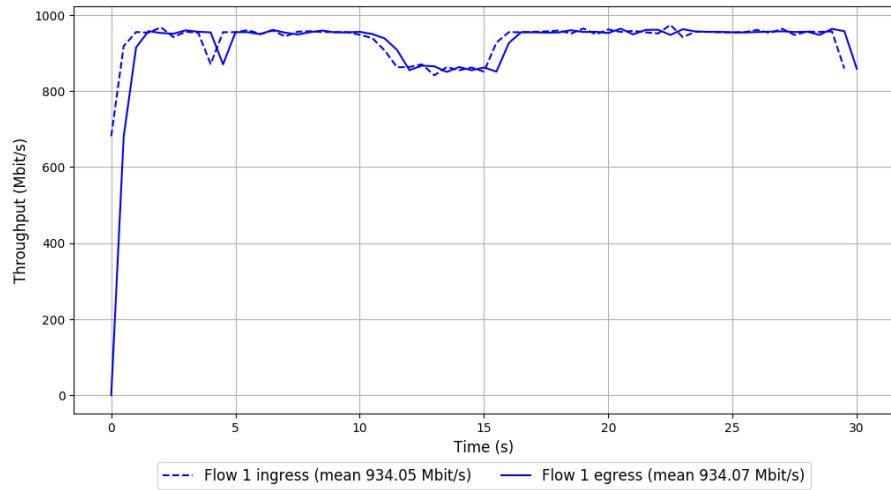


```
Run 1: Statistics of FillP

Start at: 2019-06-28 06:07:20
End at: 2019-06-28 06:07:50
Local clock offset: 2.878 ms
Remote clock offset: -3.203 ms

# Below is generated by plot.py at 2019-06-28 09:00:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 934.07 Mbit/s
95th percentile per-packet one-way delay: 9.699 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 934.07 Mbit/s
95th percentile per-packet one-way delay: 9.699 ms
Loss rate: 0.01%
```

Run 1: Report of FillP — Data Link

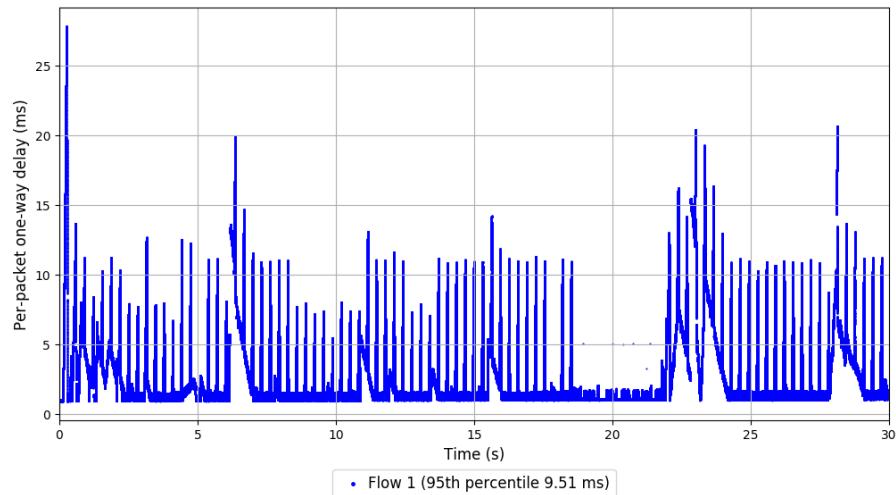
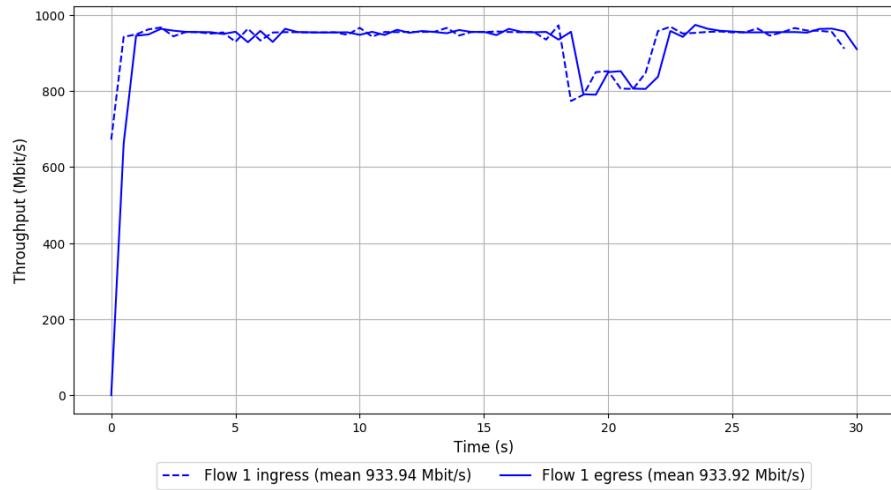


Run 2: Statistics of FillP

```
Start at: 2019-06-28 06:38:15
End at: 2019-06-28 06:38:45
Local clock offset: 2.694 ms
Remote clock offset: -1.415 ms

# Below is generated by plot.py at 2019-06-28 09:08:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 933.92 Mbit/s
95th percentile per-packet one-way delay: 9.511 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 933.92 Mbit/s
95th percentile per-packet one-way delay: 9.511 ms
Loss rate: 0.01%
```

Run 2: Report of FillP — Data Link

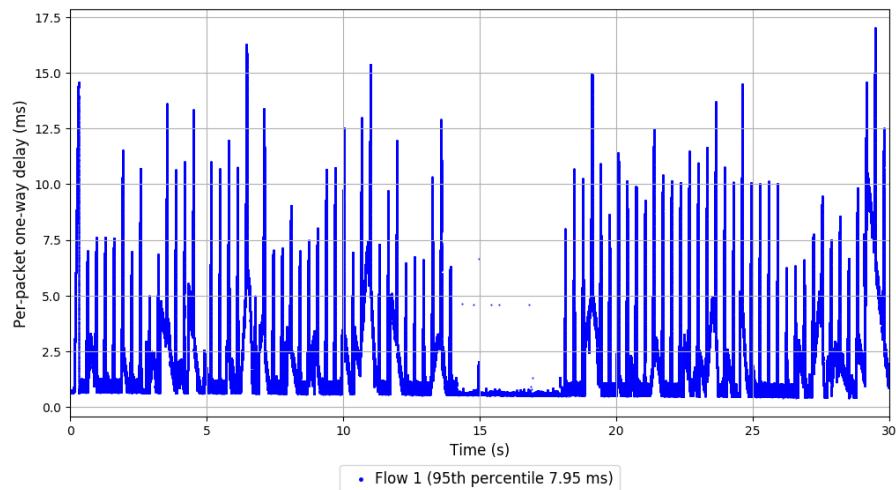
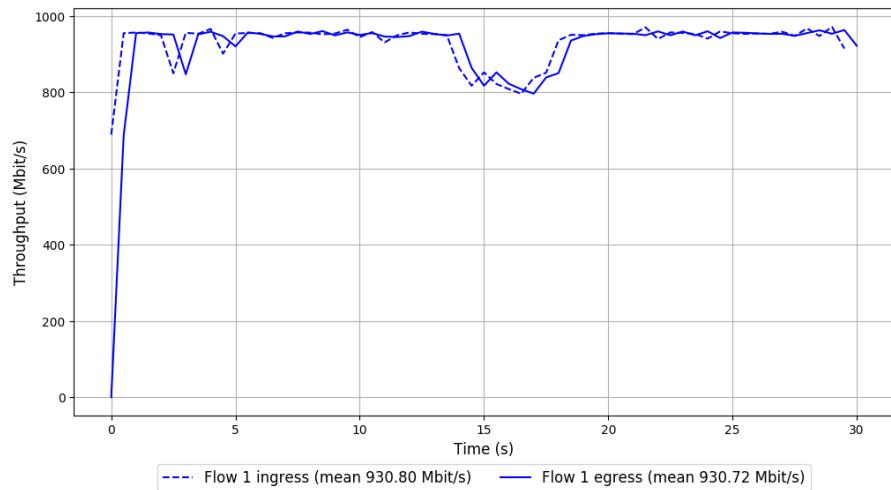


```
Run 3: Statistics of FillP
```

```
Start at: 2019-06-28 07:09:19
End at: 2019-06-28 07:09:49
Local clock offset: 3.804 ms
Remote clock offset: 1.408 ms

# Below is generated by plot.py at 2019-06-28 09:08:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 930.72 Mbit/s
95th percentile per-packet one-way delay: 7.947 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 930.72 Mbit/s
95th percentile per-packet one-way delay: 7.947 ms
Loss rate: 0.01%
```

Run 3: Report of FillP — Data Link

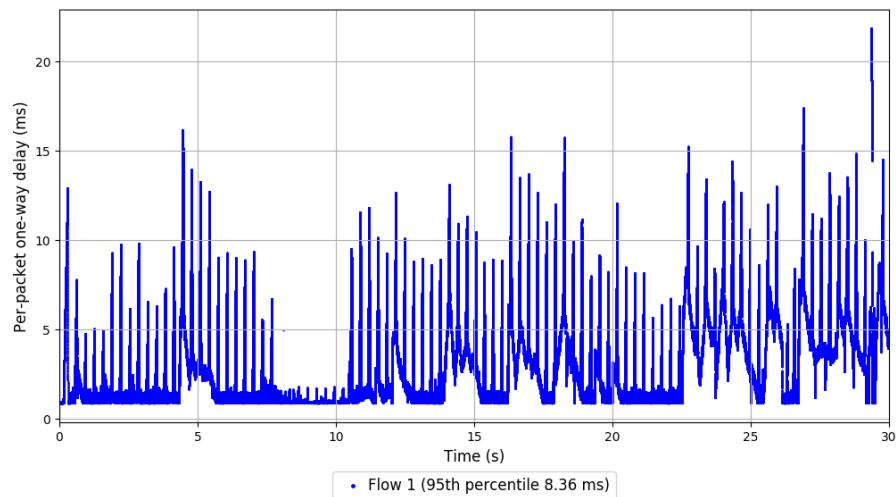
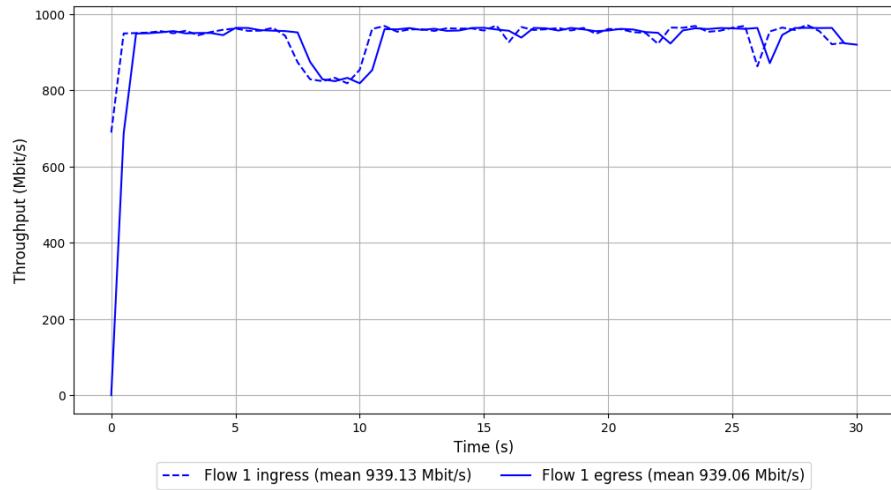


```
Run 4: Statistics of FillP
```

```
Start at: 2019-06-28 07:40:25
End at: 2019-06-28 07:40:55
Local clock offset: 2.824 ms
Remote clock offset: -3.435 ms

# Below is generated by plot.py at 2019-06-28 09:08:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 939.06 Mbit/s
95th percentile per-packet one-way delay: 8.359 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 939.06 Mbit/s
95th percentile per-packet one-way delay: 8.359 ms
Loss rate: 0.02%
```

Run 4: Report of FillP — Data Link

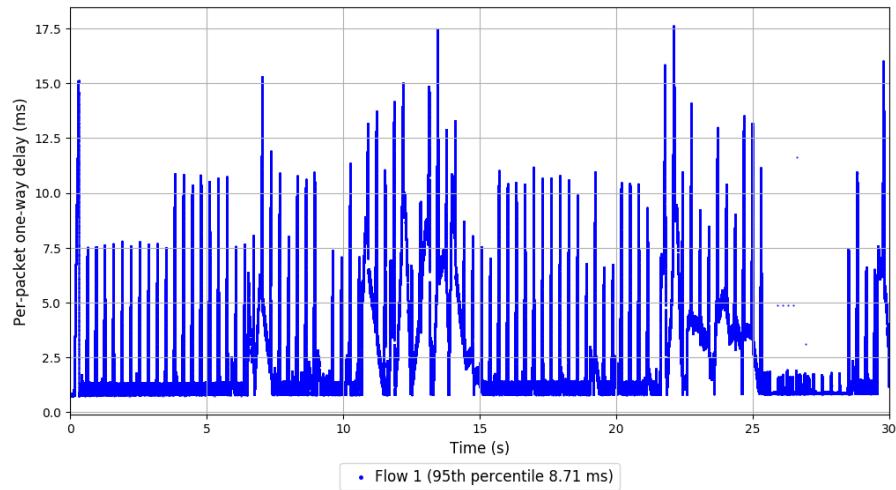
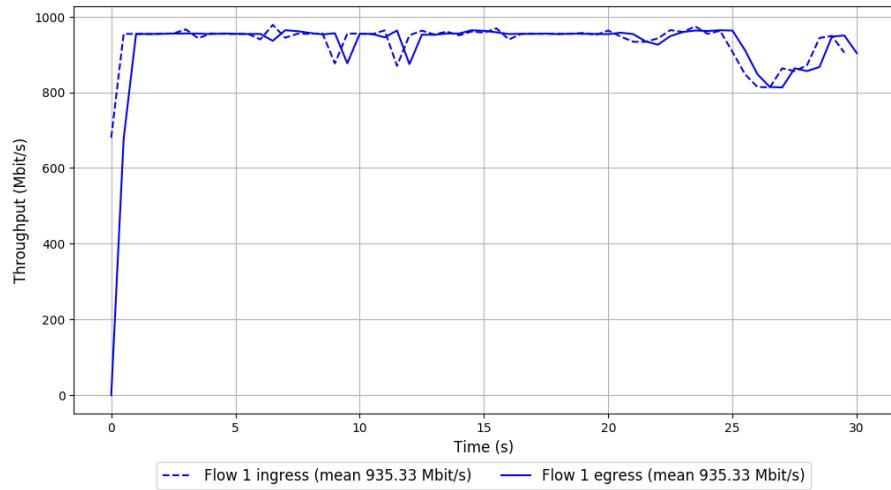


```
Run 5: Statistics of FillP
```

```
Start at: 2019-06-28 08:11:08
End at: 2019-06-28 08:11:38
Local clock offset: -0.734 ms
Remote clock offset: 1.336 ms

# Below is generated by plot.py at 2019-06-28 09:08:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 935.33 Mbit/s
95th percentile per-packet one-way delay: 8.713 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 935.33 Mbit/s
95th percentile per-packet one-way delay: 8.713 ms
Loss rate: 0.01%
```

Run 5: Report of FillP — Data Link

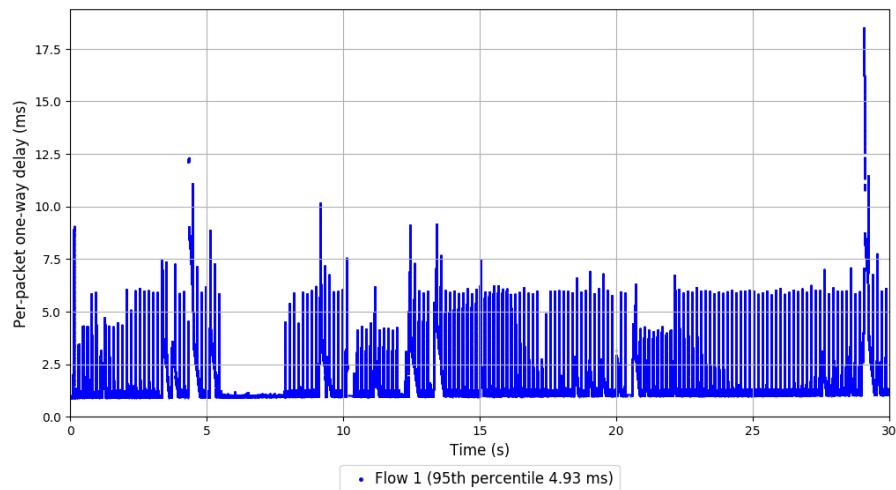
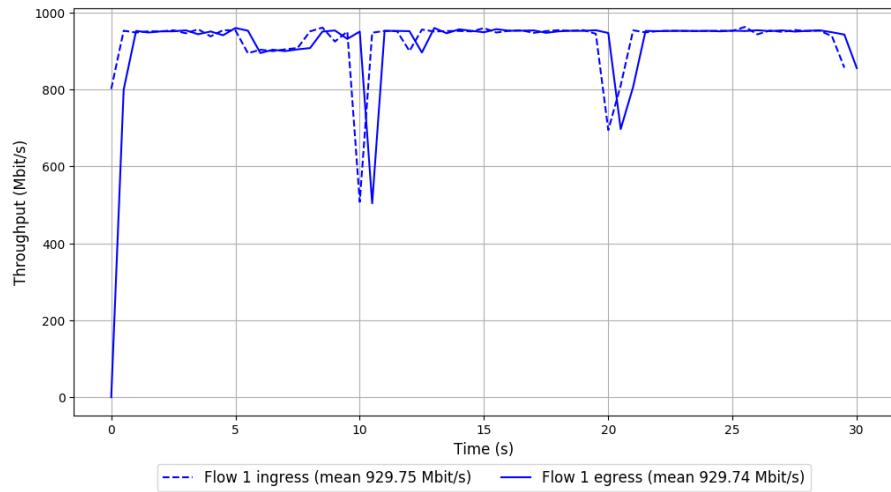


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-06-28 06:02:28
End at: 2019-06-28 06:02:58
Local clock offset: 2.896 ms
Remote clock offset: -4.171 ms

# Below is generated by plot.py at 2019-06-28 09:08:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 929.74 Mbit/s
95th percentile per-packet one-way delay: 4.931 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 929.74 Mbit/s
95th percentile per-packet one-way delay: 4.931 ms
Loss rate: 0.01%
```

Run 1: Report of FillP-Sheep — Data Link

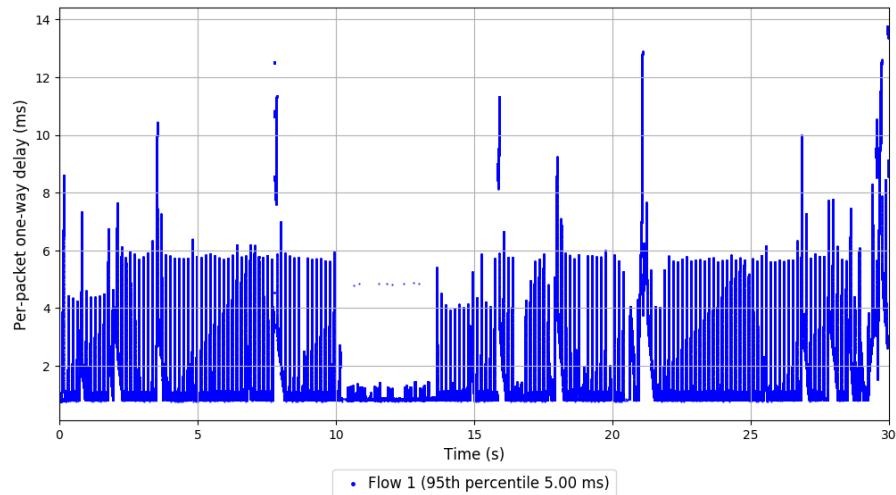
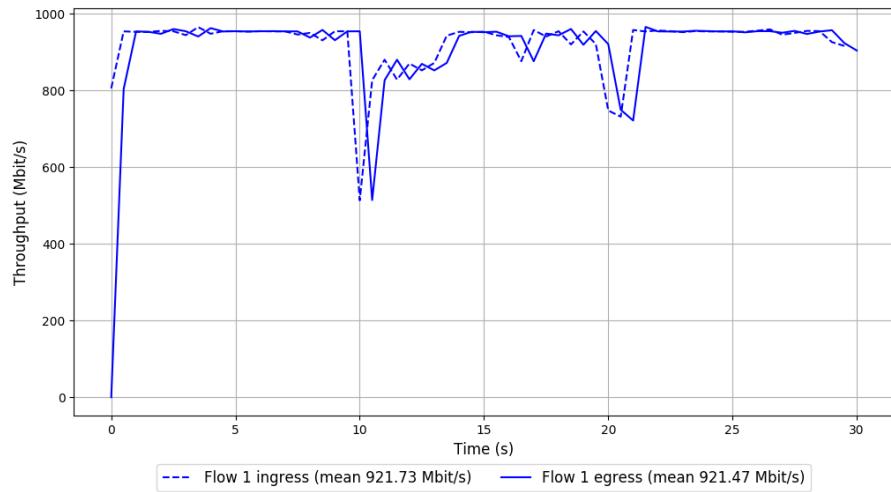


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-06-28 06:33:23
End at: 2019-06-28 06:33:53
Local clock offset: 2.71 ms
Remote clock offset: -2.136 ms

# Below is generated by plot.py at 2019-06-28 09:09:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 921.47 Mbit/s
95th percentile per-packet one-way delay: 5.002 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 921.47 Mbit/s
95th percentile per-packet one-way delay: 5.002 ms
Loss rate: 0.03%
```

Run 2: Report of FillP-Sheep — Data Link

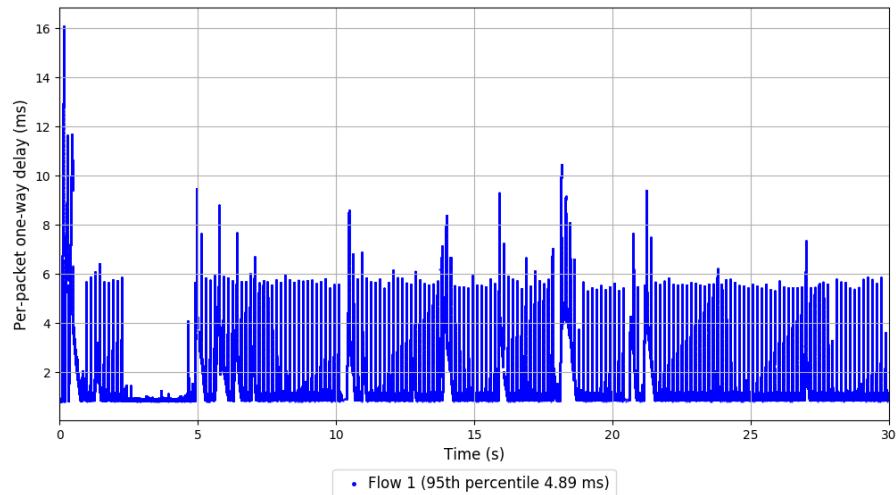
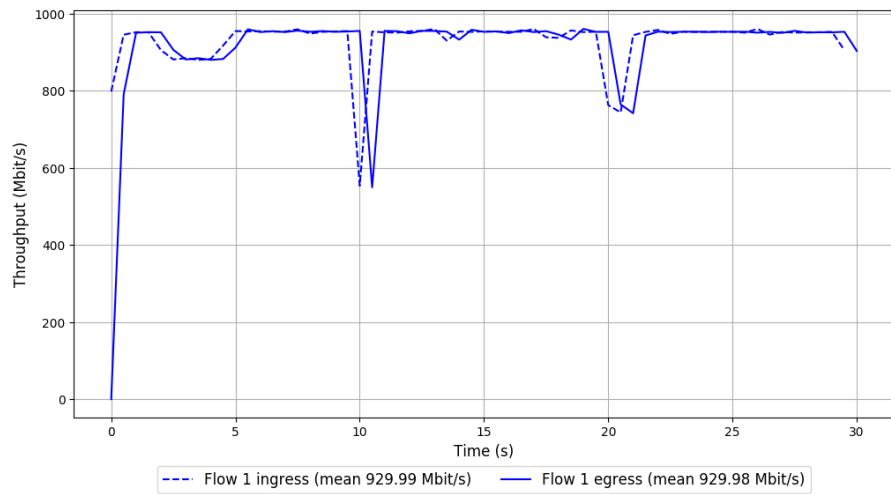


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-06-28 07:04:31
End at: 2019-06-28 07:05:01
Local clock offset: 3.699 ms
Remote clock offset: 1.147 ms

# Below is generated by plot.py at 2019-06-28 09:09:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 929.98 Mbit/s
95th percentile per-packet one-way delay: 4.886 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 929.98 Mbit/s
95th percentile per-packet one-way delay: 4.886 ms
Loss rate: 0.01%
```

Run 3: Report of FillP-Sheep — Data Link

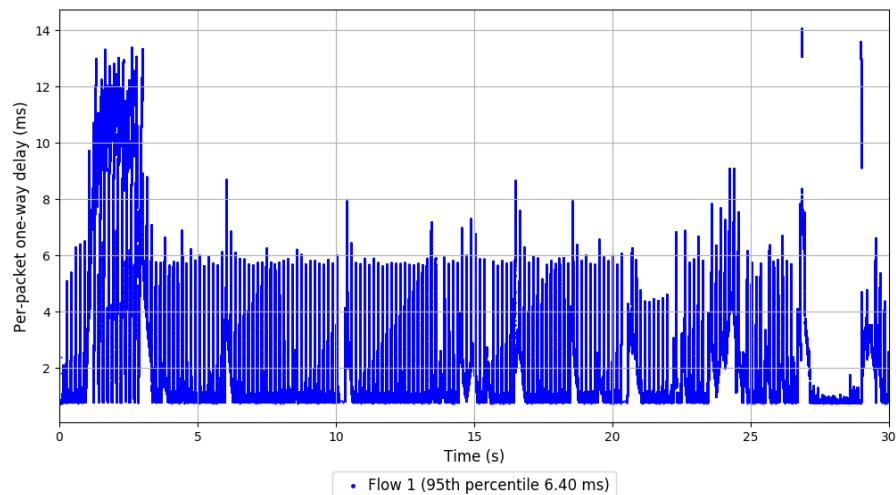
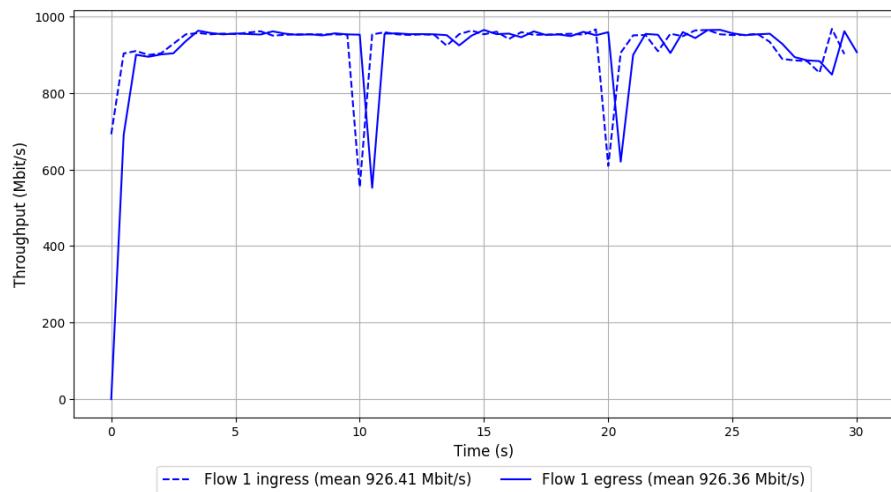


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-06-28 07:35:36
End at: 2019-06-28 07:36:06
Local clock offset: 2.834 ms
Remote clock offset: -3.17 ms

# Below is generated by plot.py at 2019-06-28 09:15:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 926.36 Mbit/s
95th percentile per-packet one-way delay: 6.404 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 926.36 Mbit/s
95th percentile per-packet one-way delay: 6.404 ms
Loss rate: 0.01%
```

Run 4: Report of FillP-Sheep — Data Link

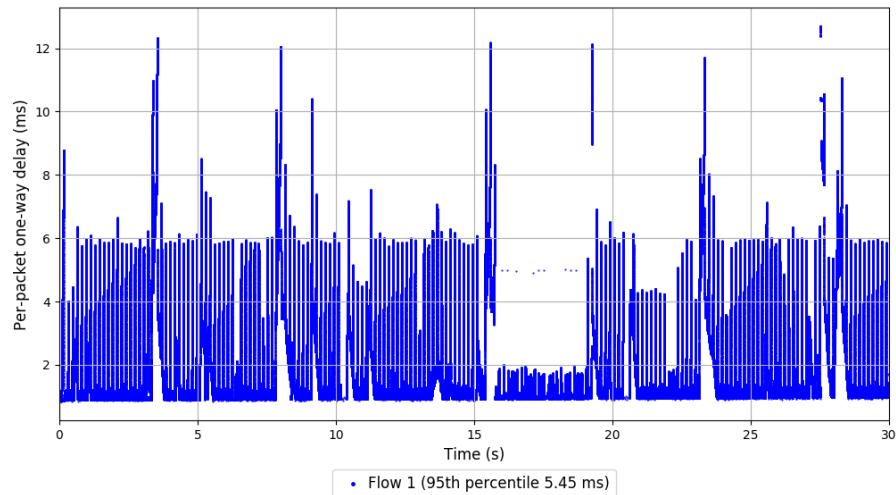
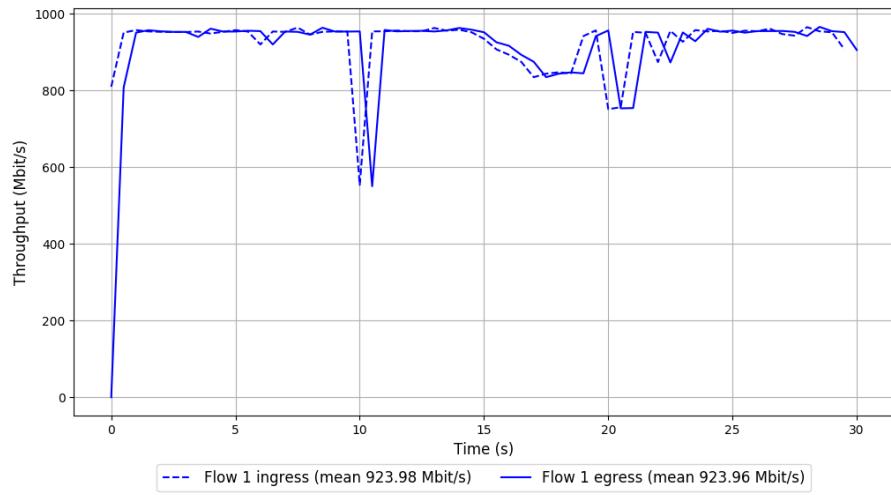


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-06-28 08:06:18
End at: 2019-06-28 08:06:48
Local clock offset: -0.341 ms
Remote clock offset: 0.946 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 923.96 Mbit/s
95th percentile per-packet one-way delay: 5.453 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 923.96 Mbit/s
95th percentile per-packet one-way delay: 5.453 ms
Loss rate: 0.01%
```

Run 5: Report of FillP-Sheep — Data Link

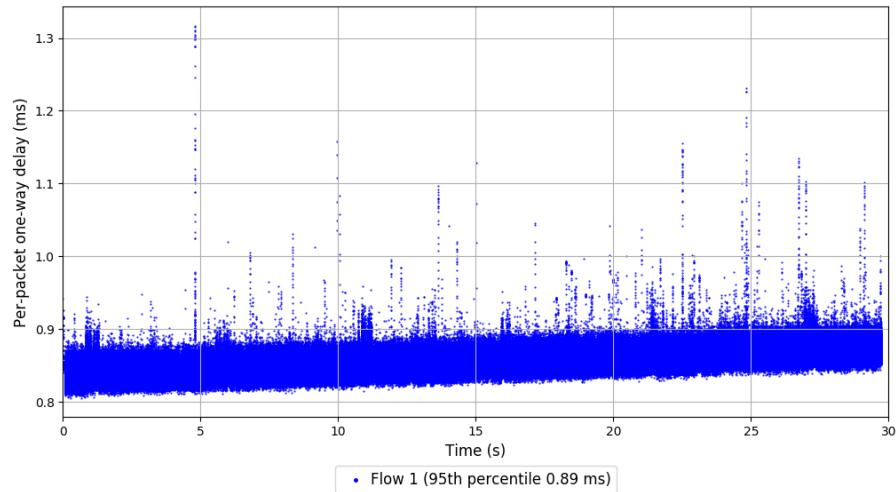
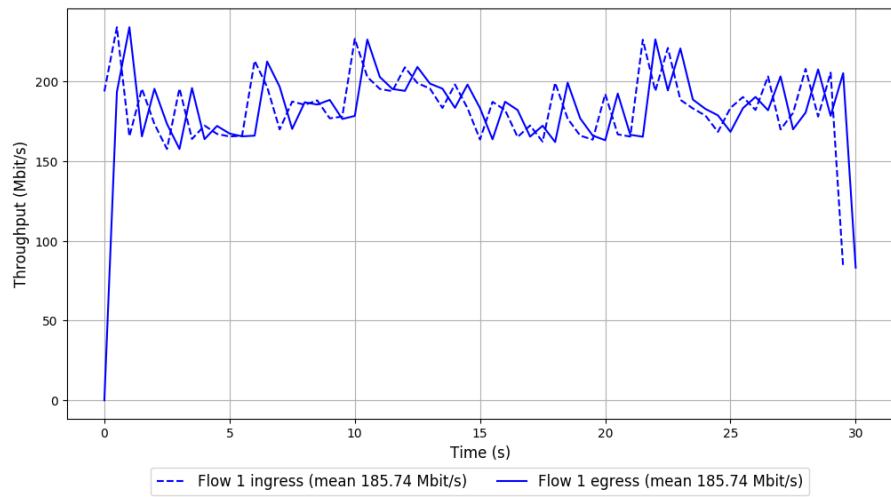


Run 1: Statistics of Indigo

```
Start at: 2019-06-28 06:13:16
End at: 2019-06-28 06:13:46
Local clock offset: 2.853 ms
Remote clock offset: -2.643 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.74 Mbit/s
95th percentile per-packet one-way delay: 0.886 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 185.74 Mbit/s
95th percentile per-packet one-way delay: 0.886 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link

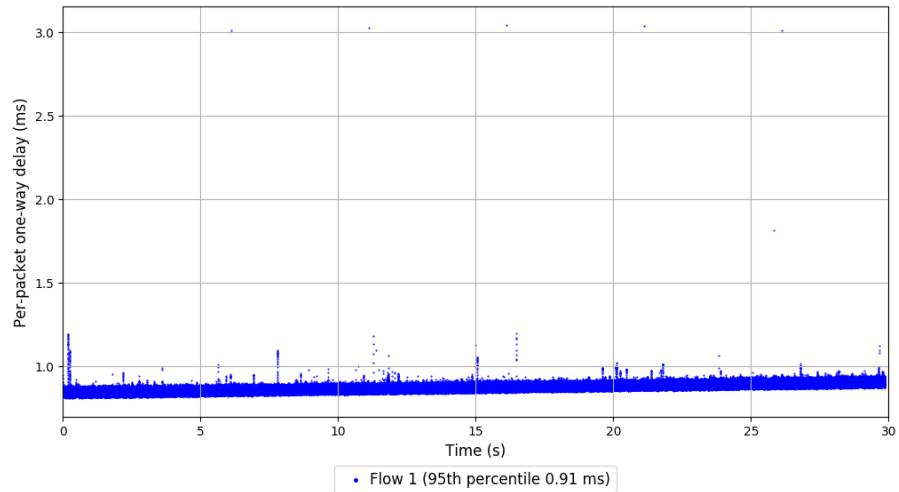
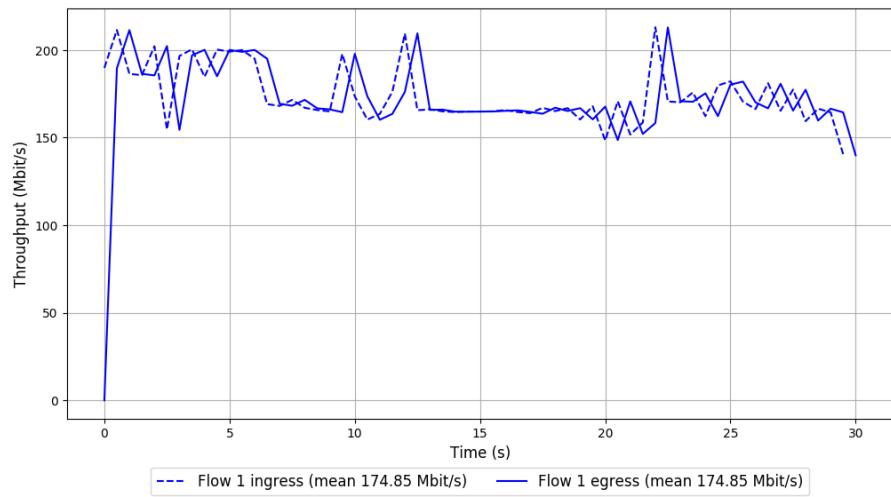


Run 2: Statistics of Indigo

```
Start at: 2019-06-28 06:44:14
End at: 2019-06-28 06:44:44
Local clock offset: 2.683 ms
Remote clock offset: -0.252 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 174.85 Mbit/s
95th percentile per-packet one-way delay: 0.909 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 174.85 Mbit/s
95th percentile per-packet one-way delay: 0.909 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo — Data Link

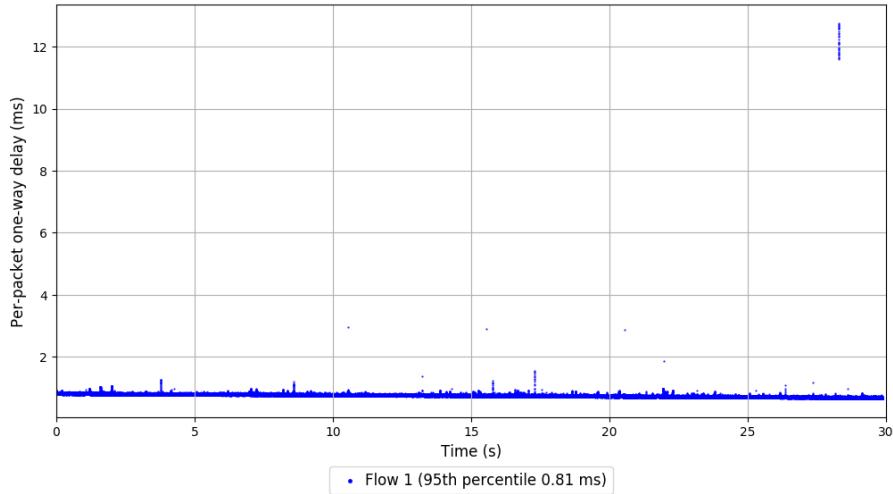
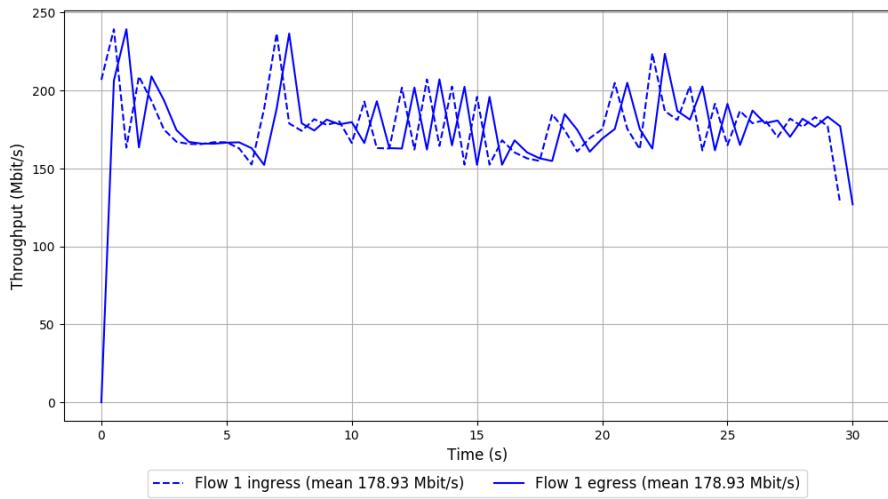


Run 3: Statistics of Indigo

```
Start at: 2019-06-28 07:15:18
End at: 2019-06-28 07:15:48
Local clock offset: 3.908 ms
Remote clock offset: -0.832 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.93 Mbit/s
95th percentile per-packet one-way delay: 0.812 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 178.93 Mbit/s
95th percentile per-packet one-way delay: 0.812 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo — Data Link

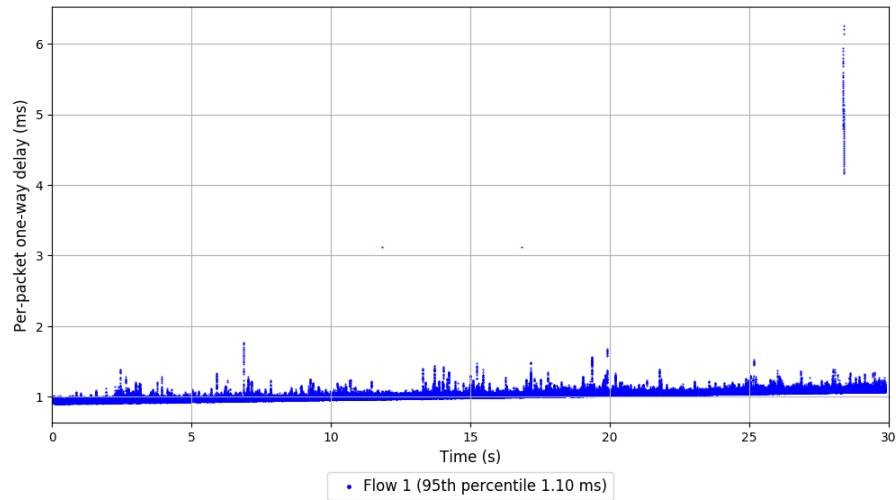
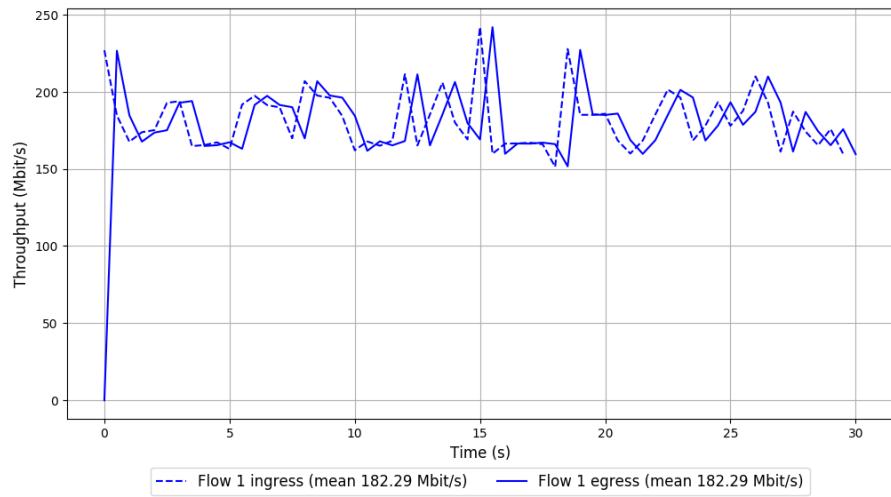


Run 4: Statistics of Indigo

```
Start at: 2019-06-28 07:46:12
End at: 2019-06-28 07:46:42
Local clock offset: 2.804 ms
Remote clock offset: -2.334 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.29 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 182.29 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo — Data Link

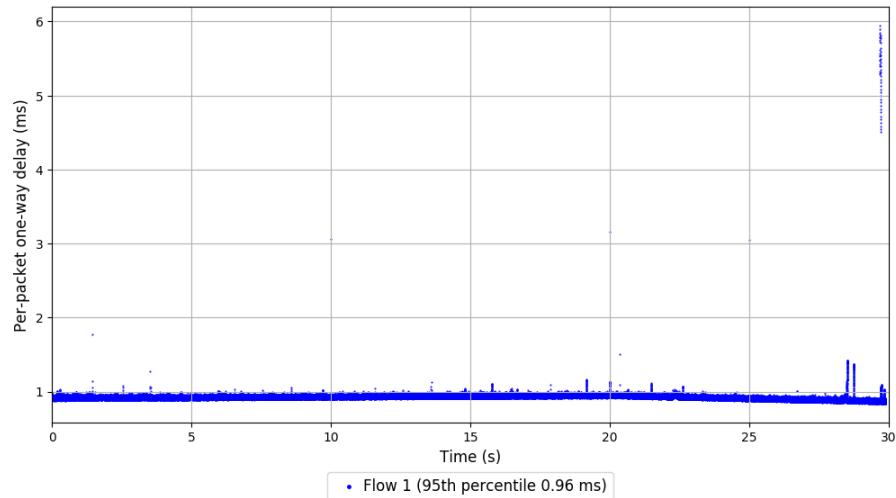
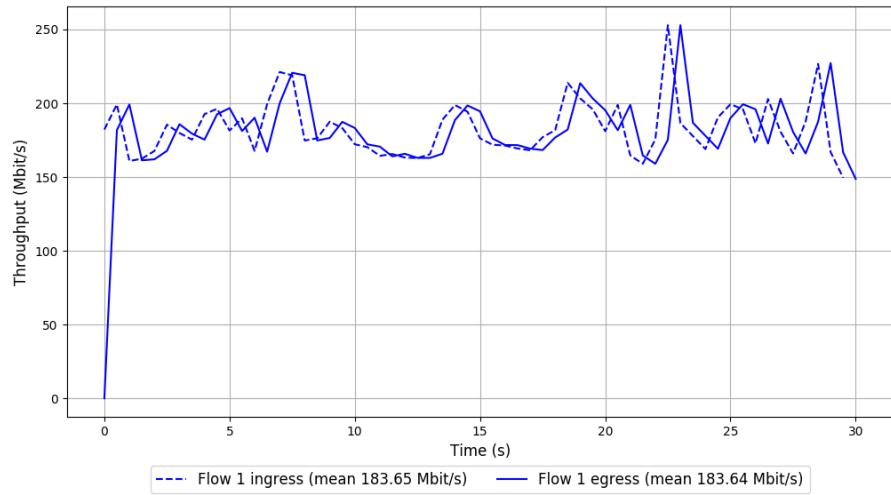


Run 5: Statistics of Indigo

```
Start at: 2019-06-28 08:17:03
End at: 2019-06-28 08:17:33
Local clock offset: -1.054 ms
Remote clock offset: 1.669 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.64 Mbit/s
95th percentile per-packet one-way delay: 0.956 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 183.64 Mbit/s
95th percentile per-packet one-way delay: 0.956 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo — Data Link

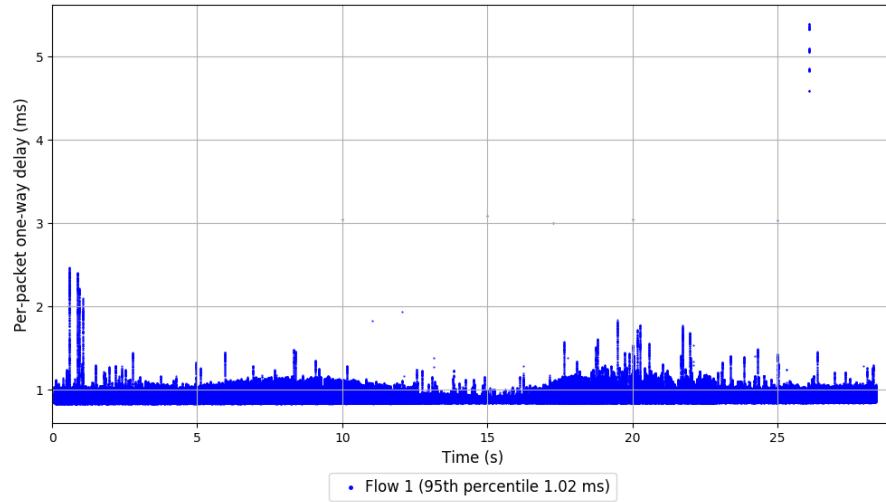
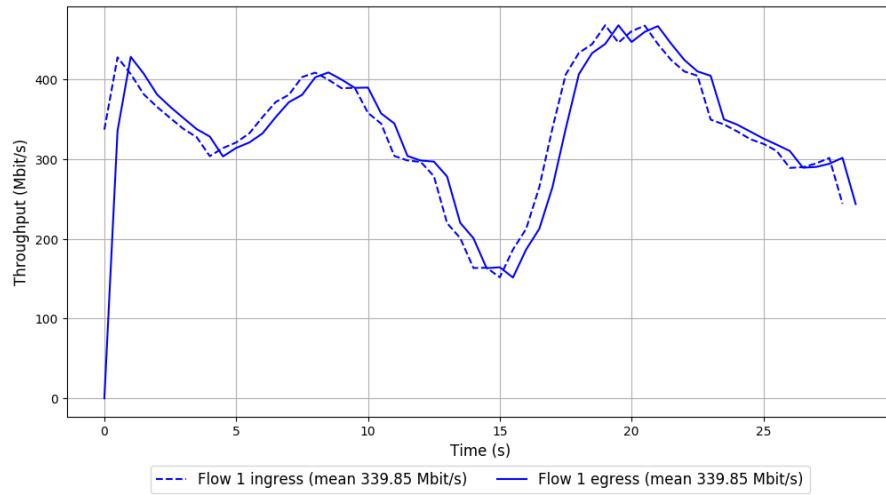


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-06-28 06:18:19
End at: 2019-06-28 06:18:49
Local clock offset: 2.815 ms
Remote clock offset: -2.426 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.85 Mbit/s
95th percentile per-packet one-way delay: 1.025 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 339.85 Mbit/s
95th percentile per-packet one-way delay: 1.025 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesC3 — Data Link

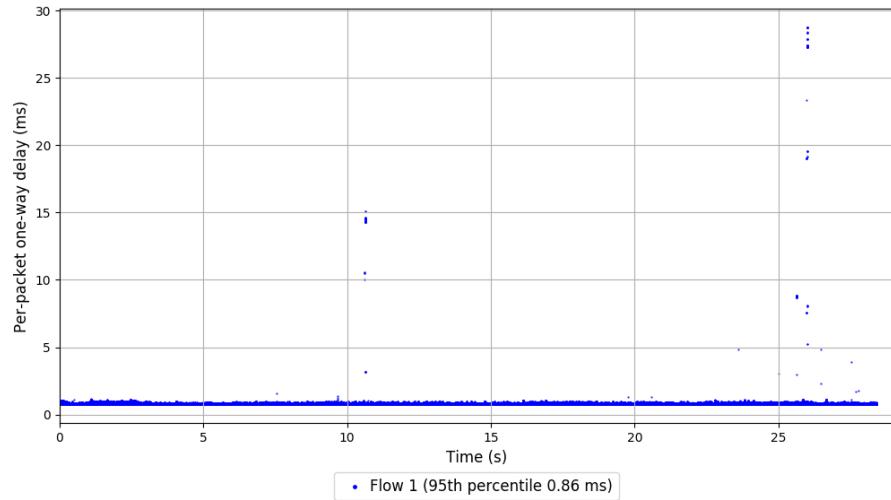
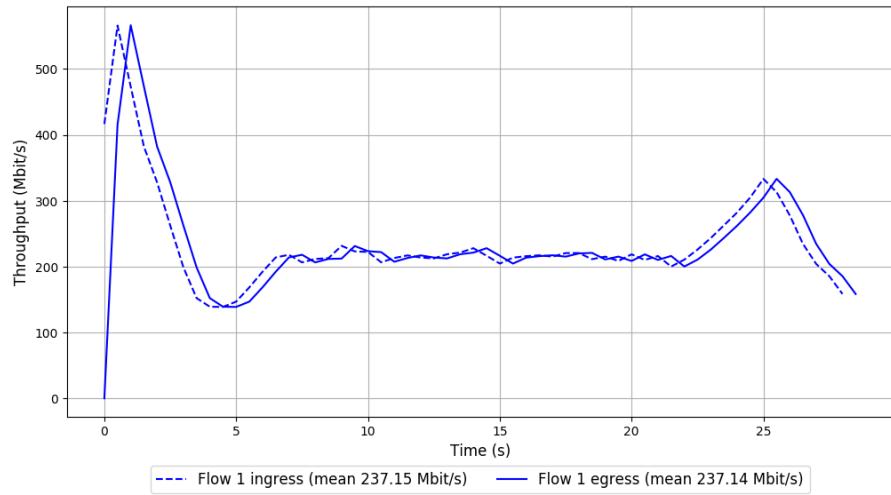


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-06-28 06:49:36
End at: 2019-06-28 06:50:06
Local clock offset: 2.88 ms
Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 237.14 Mbit/s
95th percentile per-packet one-way delay: 0.863 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 237.14 Mbit/s
95th percentile per-packet one-way delay: 0.863 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC3 — Data Link

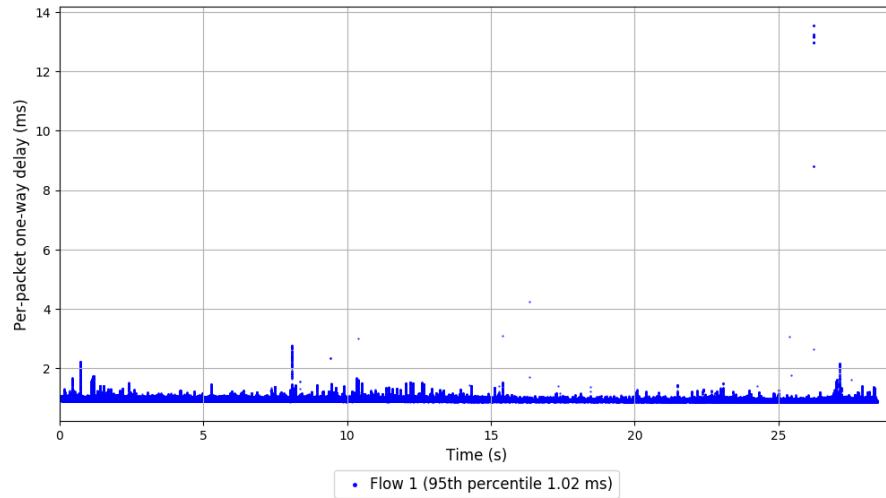
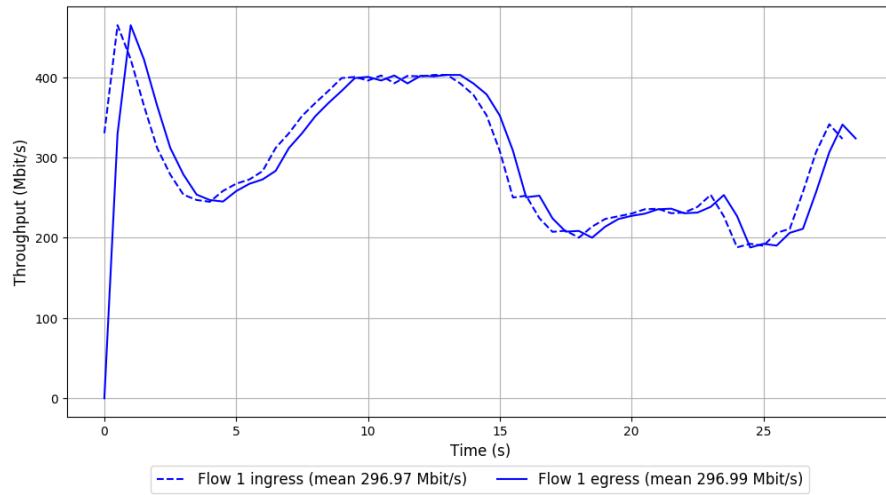


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-06-28 07:20:38
End at: 2019-06-28 07:21:08
Local clock offset: 3.686 ms
Remote clock offset: -1.912 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 296.99 Mbit/s
95th percentile per-packet one-way delay: 1.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 296.99 Mbit/s
95th percentile per-packet one-way delay: 1.016 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC3 — Data Link

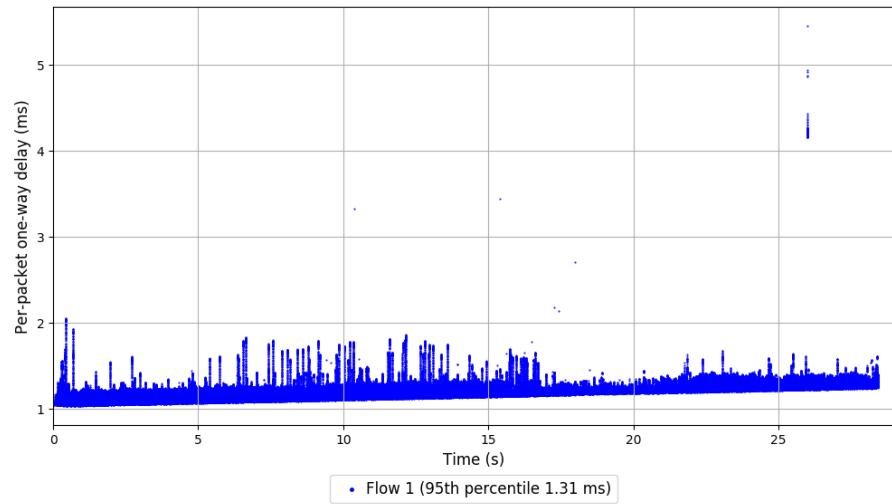
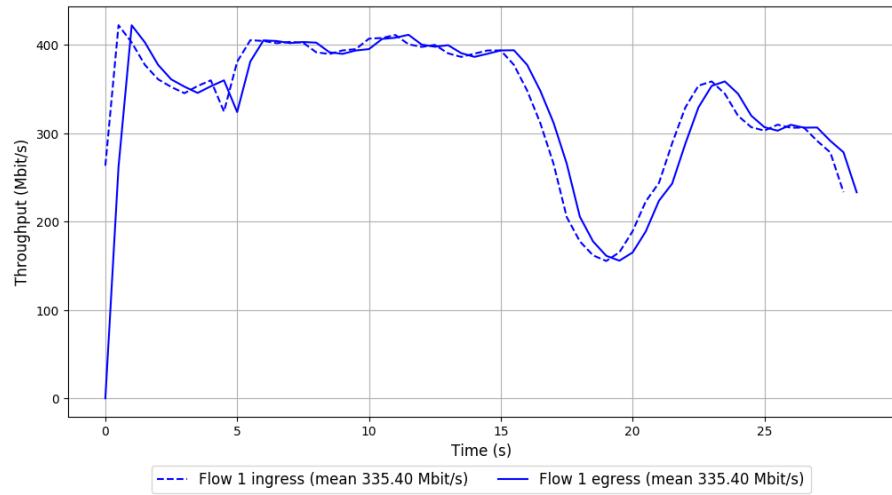


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-06-28 07:51:16
End at: 2019-06-28 07:51:46
Local clock offset: 1.787 ms
Remote clock offset: -1.024 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.40 Mbit/s
95th percentile per-packet one-way delay: 1.311 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 335.40 Mbit/s
95th percentile per-packet one-way delay: 1.311 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC3 — Data Link

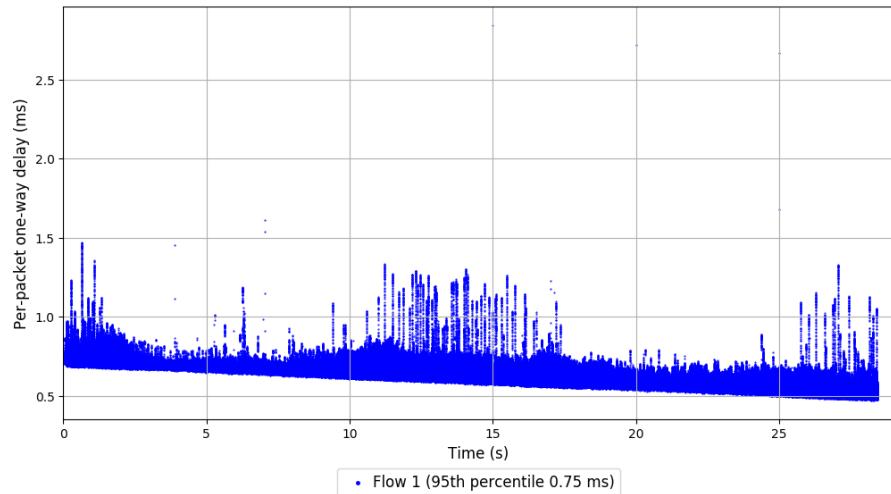
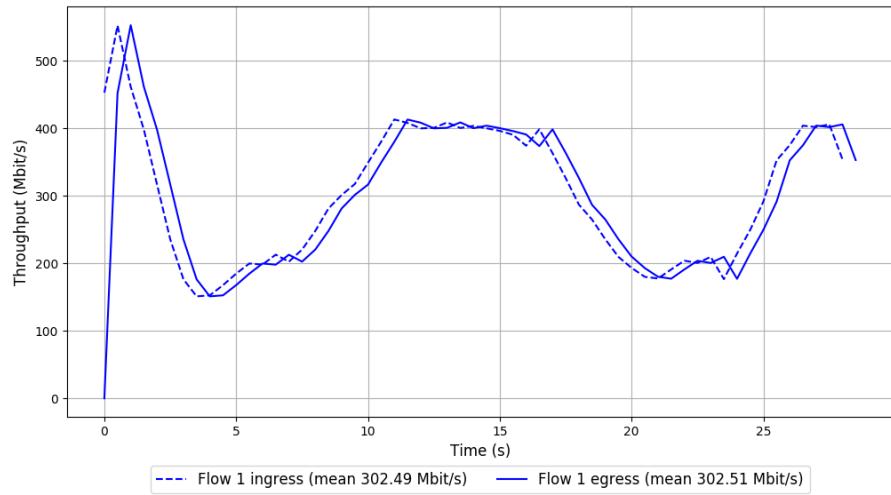


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-06-28 08:22:26
End at: 2019-06-28 08:22:56
Local clock offset: -0.246 ms
Remote clock offset: -0.472 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 302.51 Mbit/s
95th percentile per-packet one-way delay: 0.754 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 302.51 Mbit/s
95th percentile per-packet one-way delay: 0.754 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesC3 — Data Link

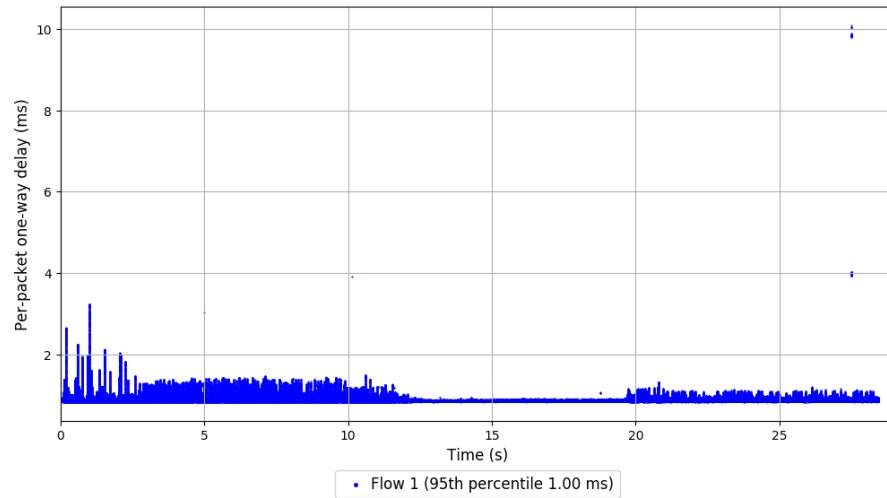
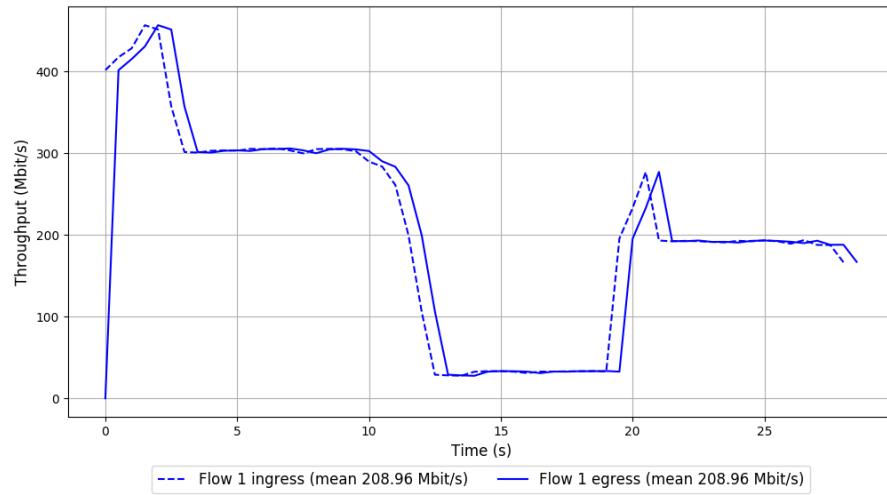


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-06-28 06:23:52
End at: 2019-06-28 06:24:22
Local clock offset: 2.791 ms
Remote clock offset: -2.29 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.96 Mbit/s
95th percentile per-packet one-way delay: 1.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.96 Mbit/s
95th percentile per-packet one-way delay: 1.000 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC5 — Data Link

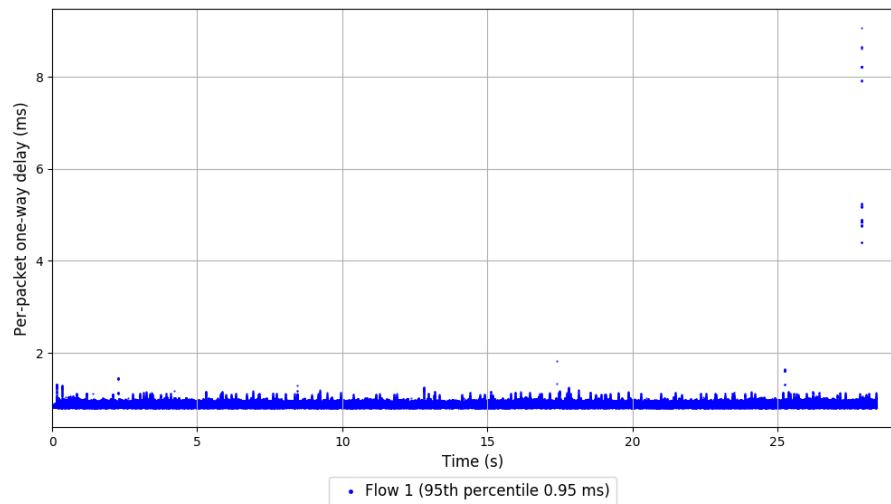
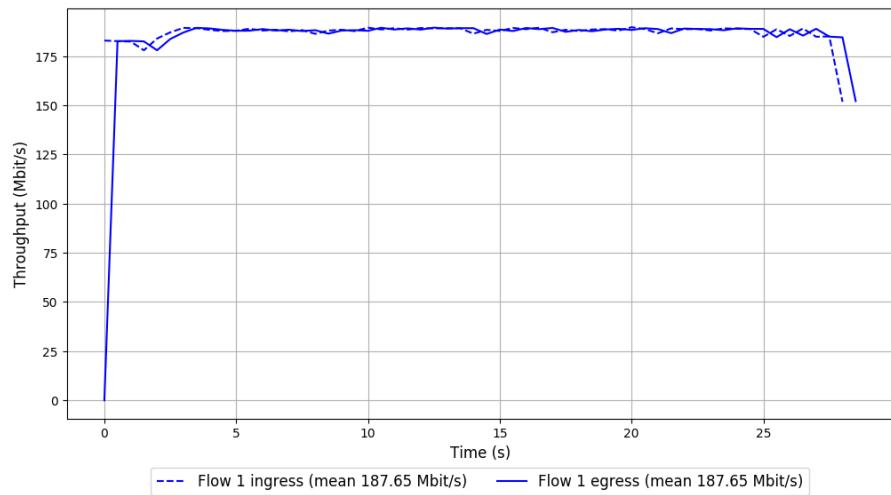


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-06-28 06:55:02
End at: 2019-06-28 06:55:32
Local clock offset: 3.307 ms
Remote clock offset: 0.675 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.65 Mbit/s
95th percentile per-packet one-way delay: 0.946 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 187.65 Mbit/s
95th percentile per-packet one-way delay: 0.946 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesC5 — Data Link

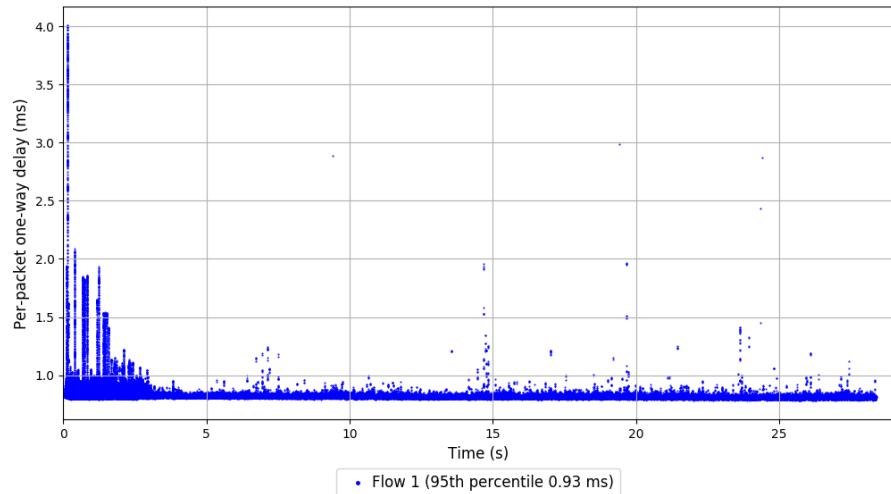
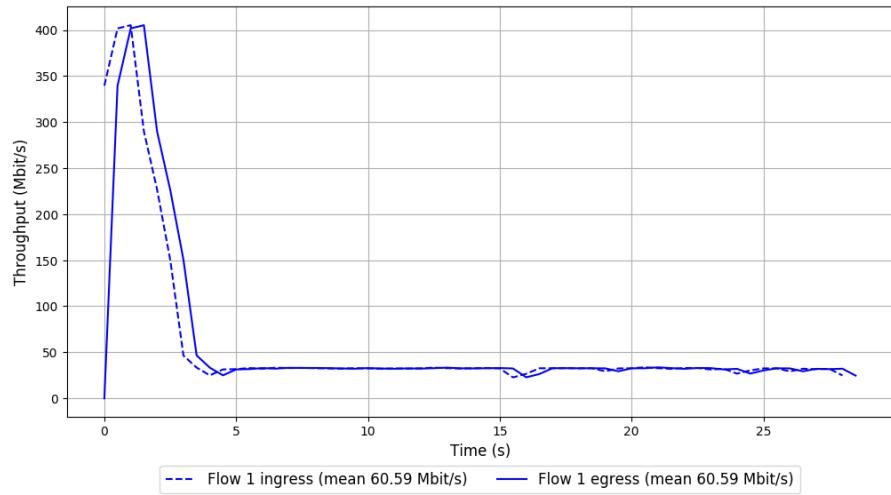


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-06-28 07:26:09
End at: 2019-06-28 07:26:39
Local clock offset: 3.248 ms
Remote clock offset: -2.535 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.59 Mbit/s
95th percentile per-packet one-way delay: 0.931 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 60.59 Mbit/s
95th percentile per-packet one-way delay: 0.931 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesC5 — Data Link

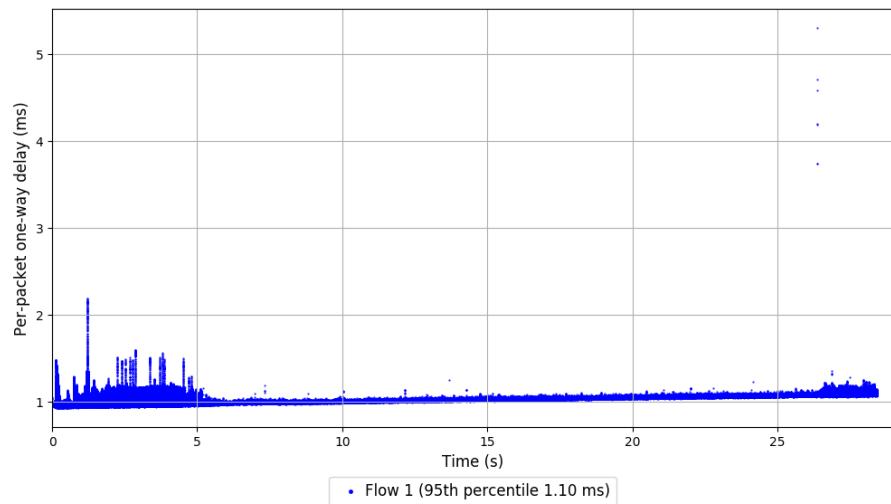
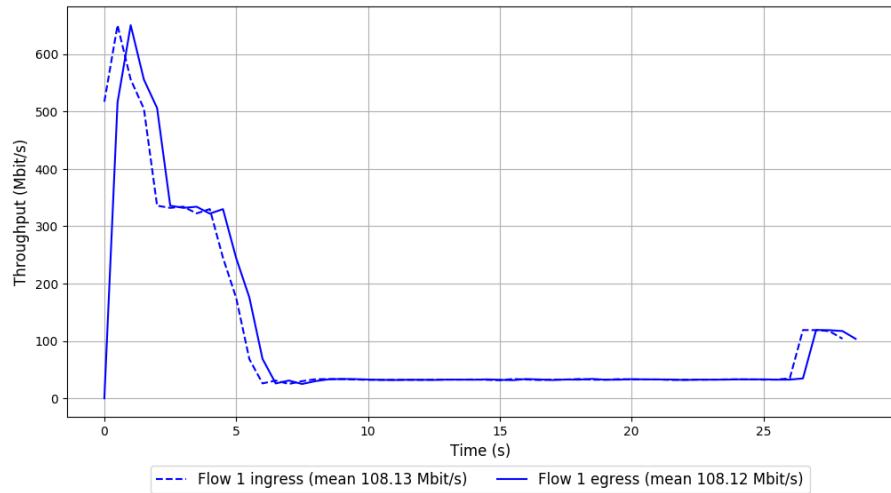


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-06-28 07:56:52
End at: 2019-06-28 07:57:22
Local clock offset: 0.656 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 108.12 Mbit/s
95th percentile per-packet one-way delay: 1.105 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 108.12 Mbit/s
95th percentile per-packet one-way delay: 1.105 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC5 — Data Link

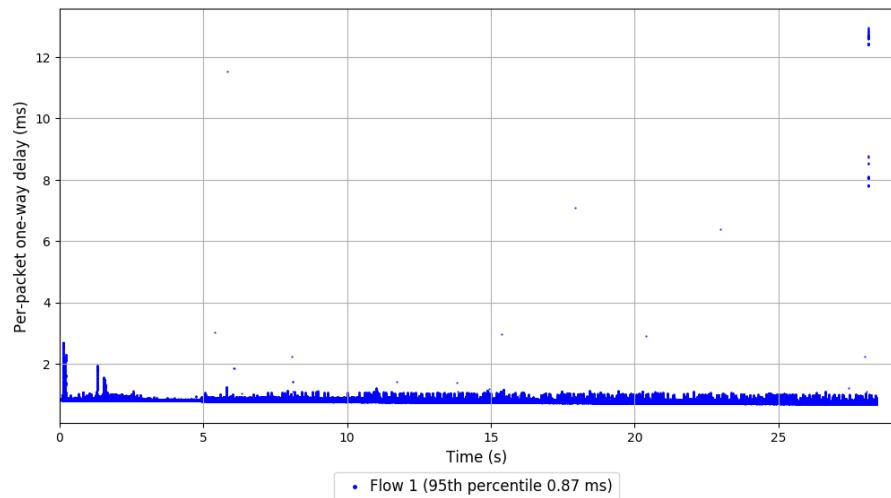
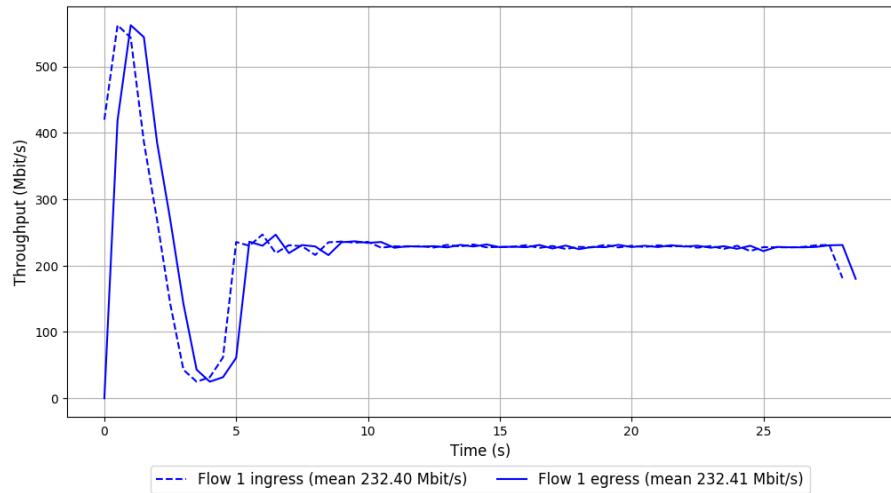


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-06-28 08:27:57
End at: 2019-06-28 08:28:27
Local clock offset: 0.422 ms
Remote clock offset: -1.832 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.41 Mbit/s
95th percentile per-packet one-way delay: 0.871 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 232.41 Mbit/s
95th percentile per-packet one-way delay: 0.871 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesC5 — Data Link

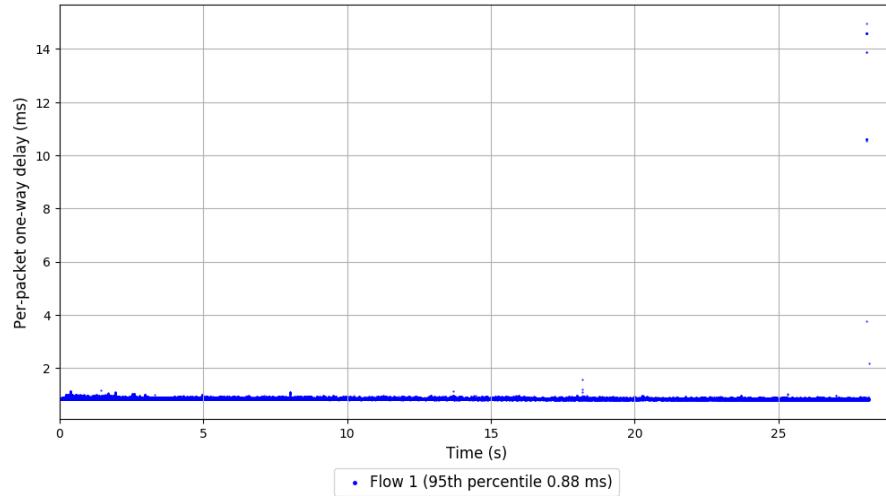
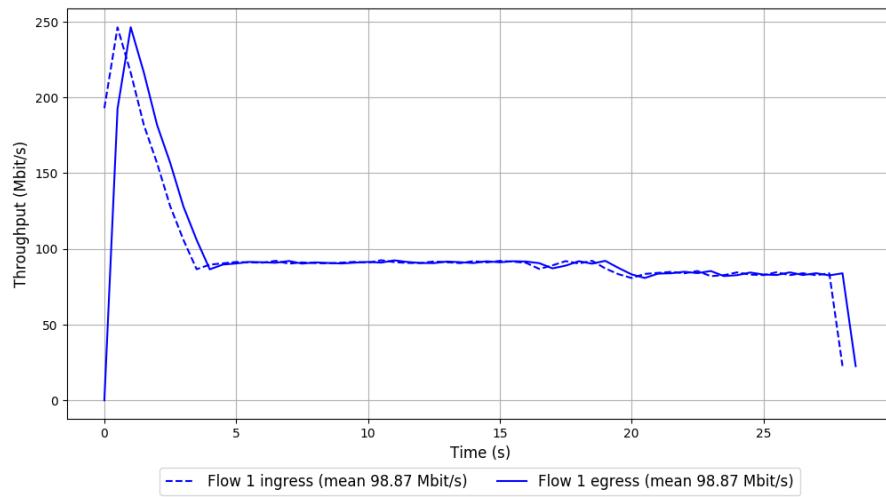


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-06-28 05:58:30
End at: 2019-06-28 05:59:00
Local clock offset: 2.901 ms
Remote clock offset: -4.354 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 98.87 Mbit/s
95th percentile per-packet one-way delay: 0.879 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 98.87 Mbit/s
95th percentile per-packet one-way delay: 0.879 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link

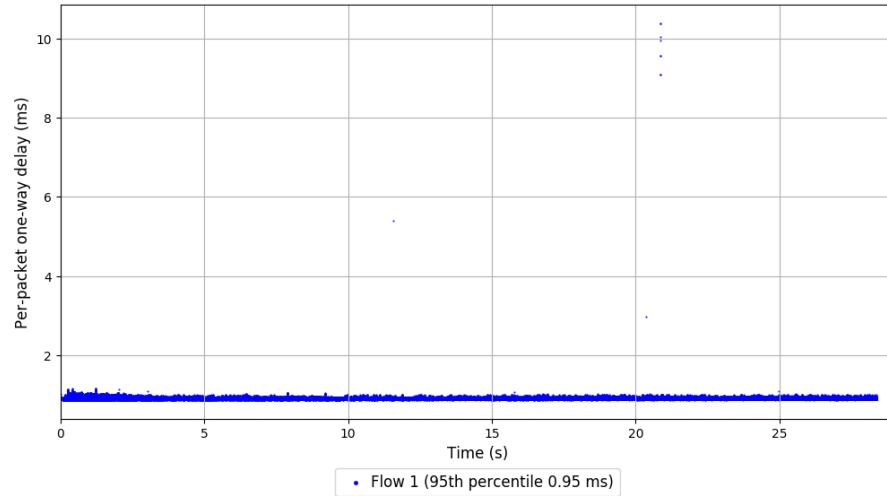
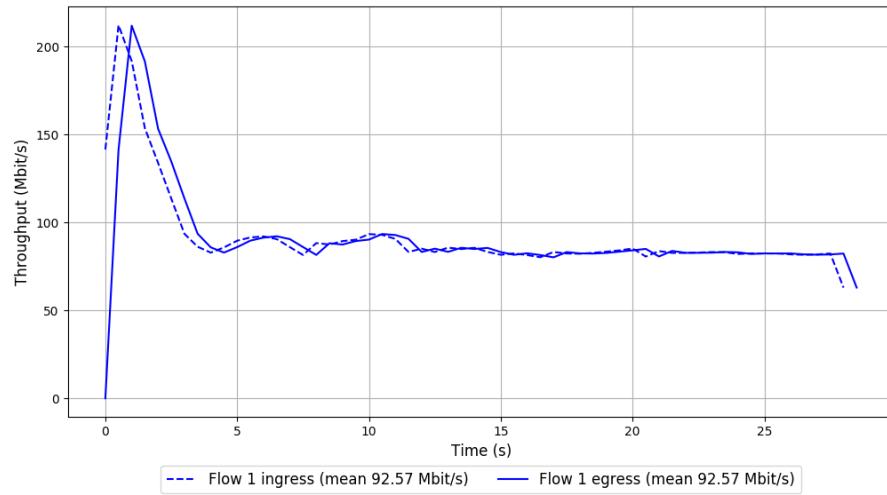


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-06-28 06:29:24
End at: 2019-06-28 06:29:54
Local clock offset: 2.761 ms
Remote clock offset: -2.214 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 0.951 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 0.951 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesD — Data Link

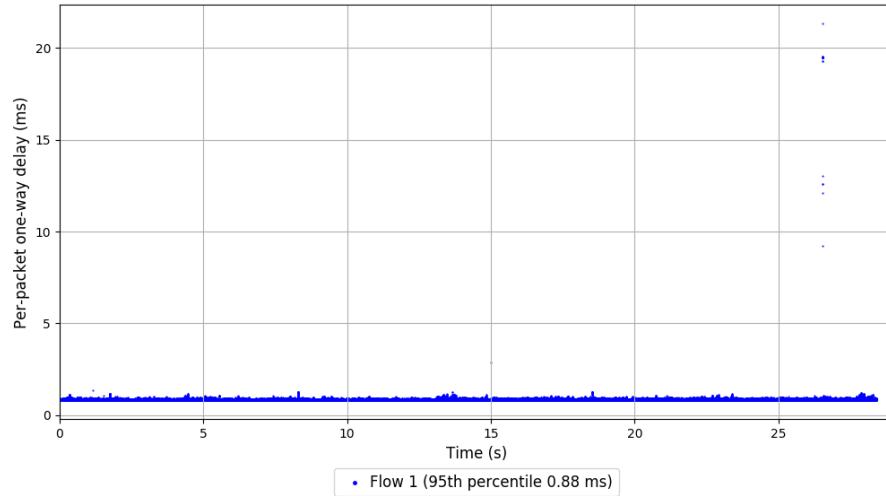
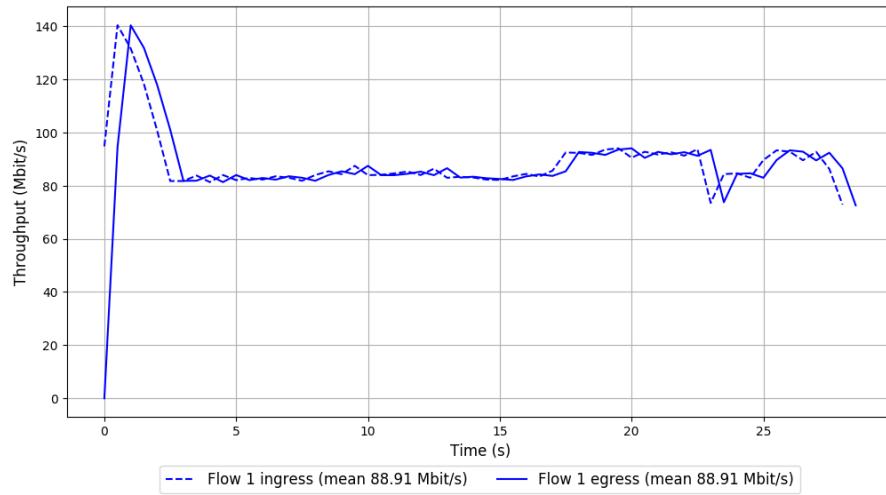


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-06-28 07:00:33
End at: 2019-06-28 07:01:03
Local clock offset: 3.582 ms
Remote clock offset: 0.999 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.91 Mbit/s
95th percentile per-packet one-way delay: 0.884 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.91 Mbit/s
95th percentile per-packet one-way delay: 0.884 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesD — Data Link

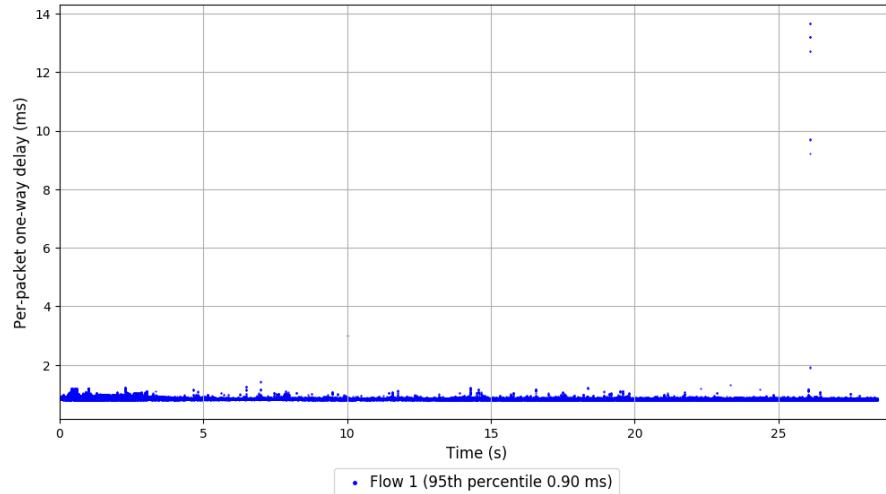
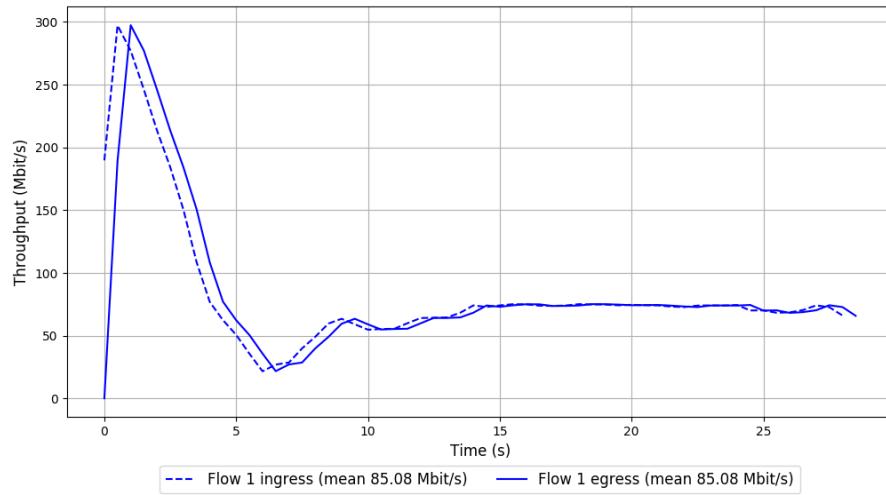


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-06-28 07:31:37
End at: 2019-06-28 07:32:07
Local clock offset: 2.989 ms
Remote clock offset: -2.953 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.08 Mbit/s
95th percentile per-packet one-way delay: 0.897 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.08 Mbit/s
95th percentile per-packet one-way delay: 0.897 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesD — Data Link

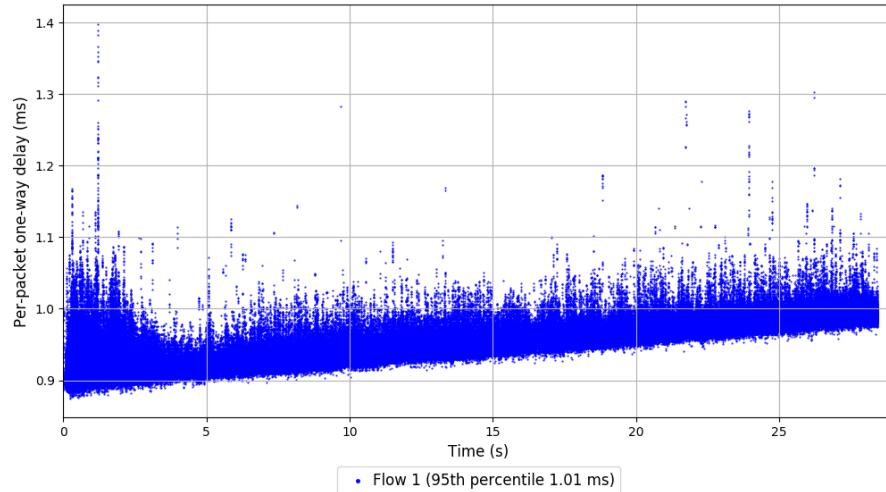
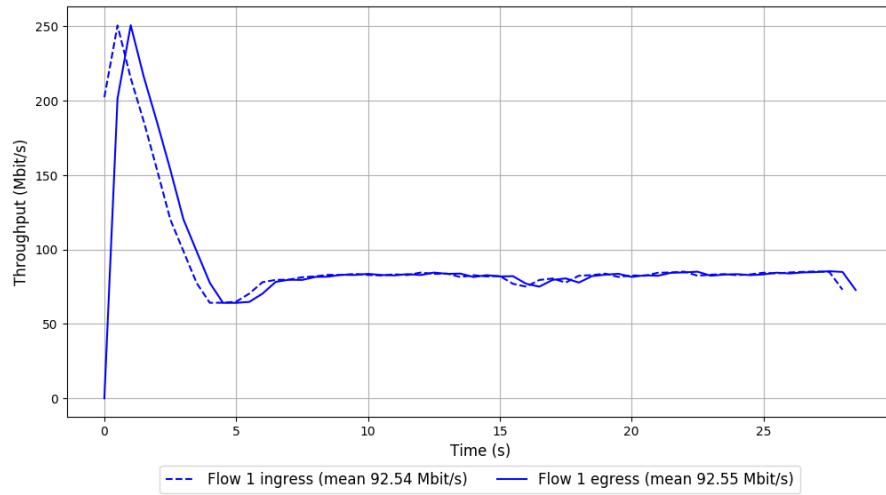


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-06-28 08:02:17
End at: 2019-06-28 08:02:47
Local clock offset: -0.012 ms
Remote clock offset: 0.582 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.55 Mbit/s
95th percentile per-packet one-way delay: 1.007 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.55 Mbit/s
95th percentile per-packet one-way delay: 1.007 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesD — Data Link

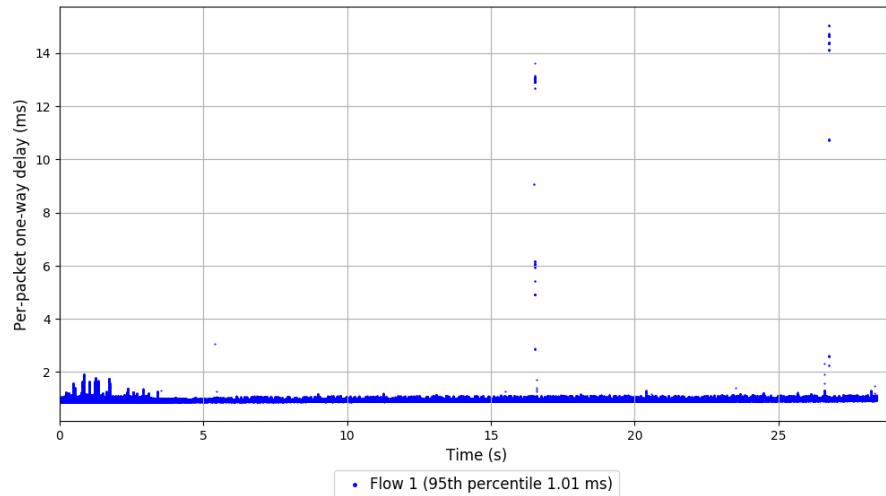
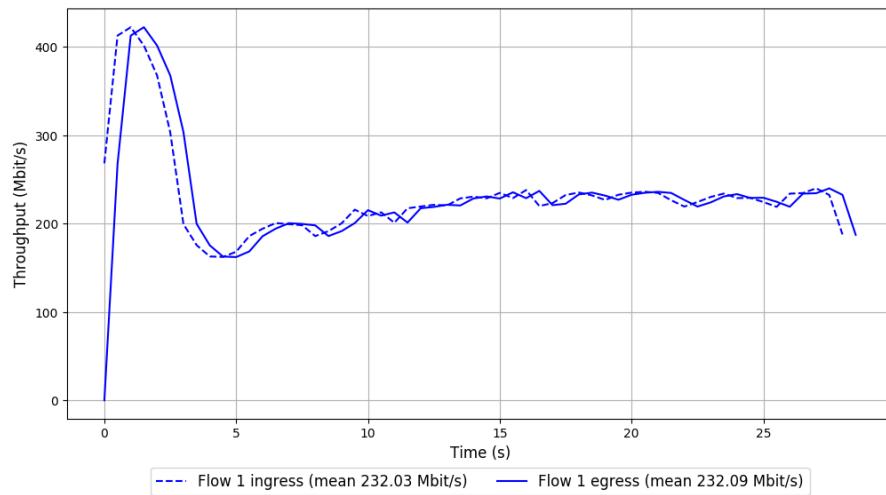


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-06-28 06:08:59
End at: 2019-06-28 06:09:29
Local clock offset: 2.888 ms
Remote clock offset: -3.054 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.09 Mbit/s
95th percentile per-packet one-way delay: 1.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 232.09 Mbit/s
95th percentile per-packet one-way delay: 1.011 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesT — Data Link

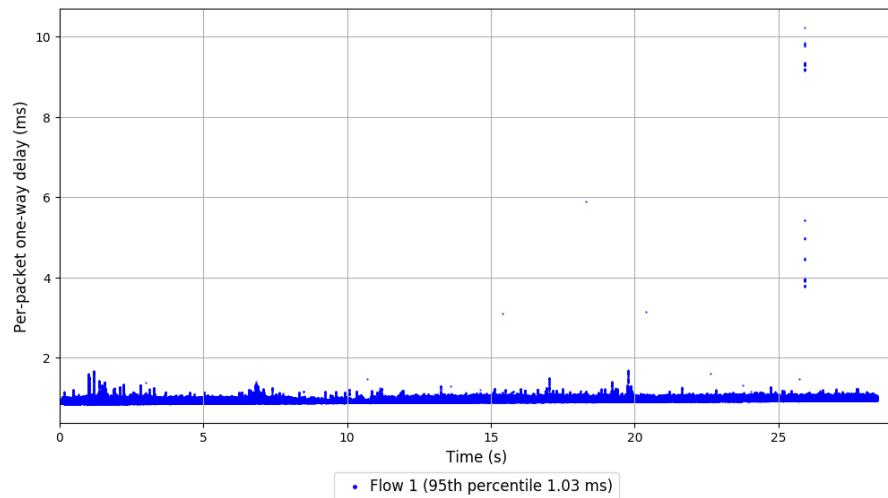
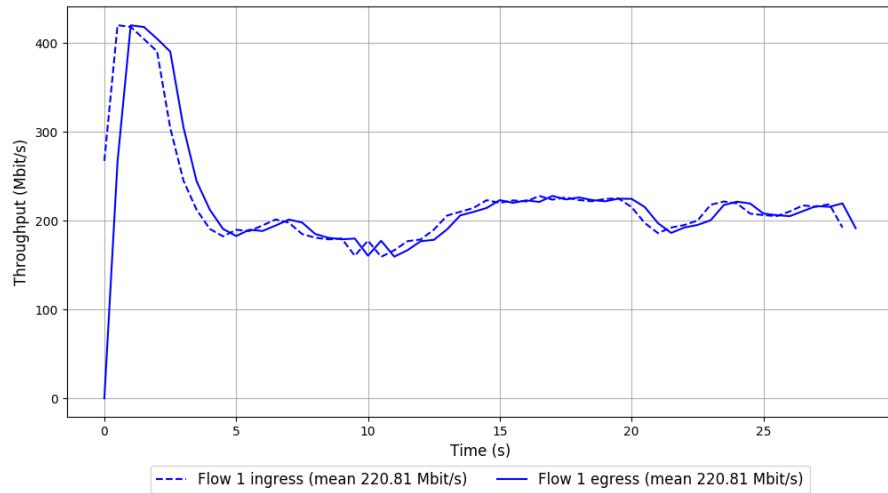


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-06-28 06:39:54
End at: 2019-06-28 06:40:24
Local clock offset: 2.664 ms
Remote clock offset: -0.958 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.81 Mbit/s
95th percentile per-packet one-way delay: 1.027 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 220.81 Mbit/s
95th percentile per-packet one-way delay: 1.027 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesT — Data Link

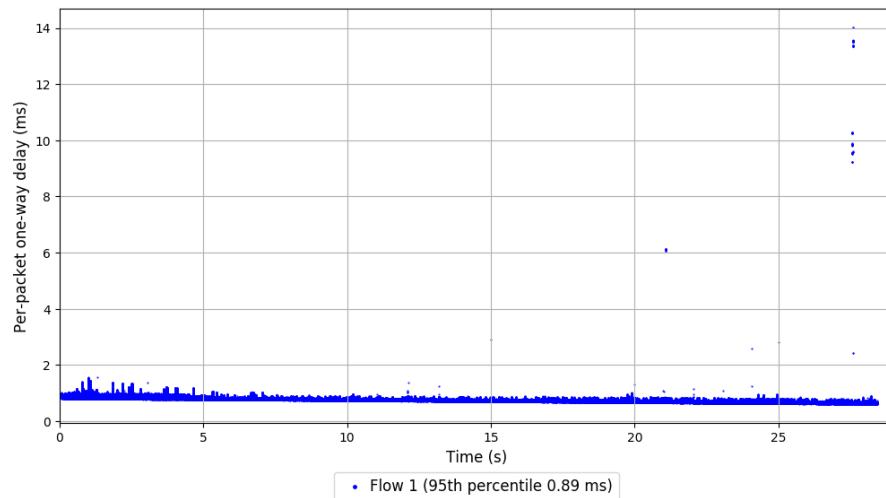
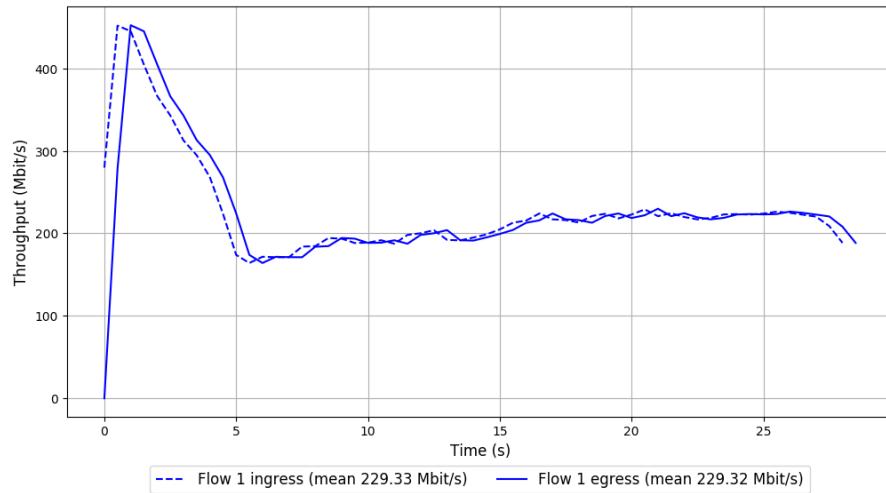


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-06-28 07:10:57
End at: 2019-06-28 07:11:27
Local clock offset: 3.837 ms
Remote clock offset: 0.545 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.32 Mbit/s
95th percentile per-packet one-way delay: 0.890 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 229.32 Mbit/s
95th percentile per-packet one-way delay: 0.890 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesT — Data Link

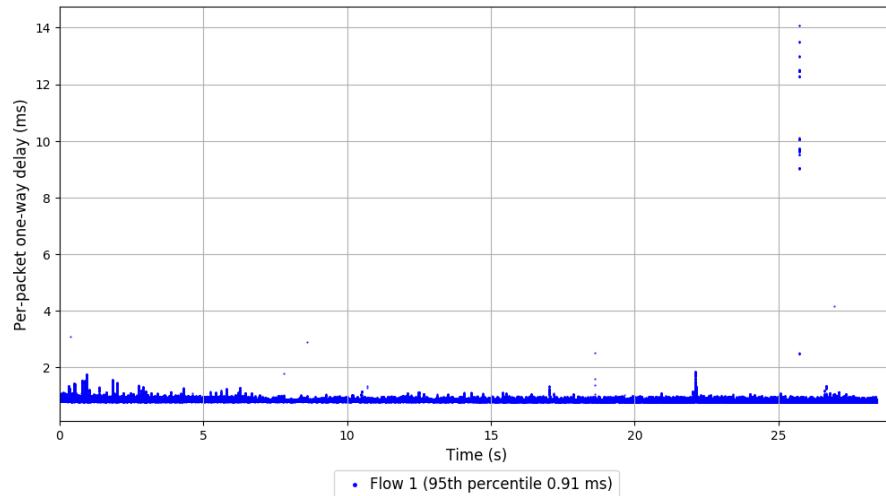
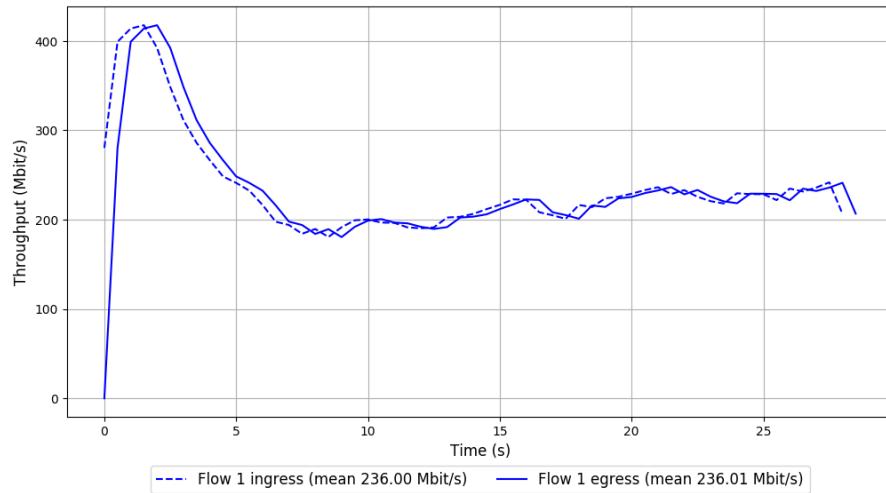


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-06-28 07:41:56
End at: 2019-06-28 07:42:26
Local clock offset: 2.769 ms
Remote clock offset: -3.414 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 236.01 Mbit/s
95th percentile per-packet one-way delay: 0.912 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 236.01 Mbit/s
95th percentile per-packet one-way delay: 0.912 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesT — Data Link

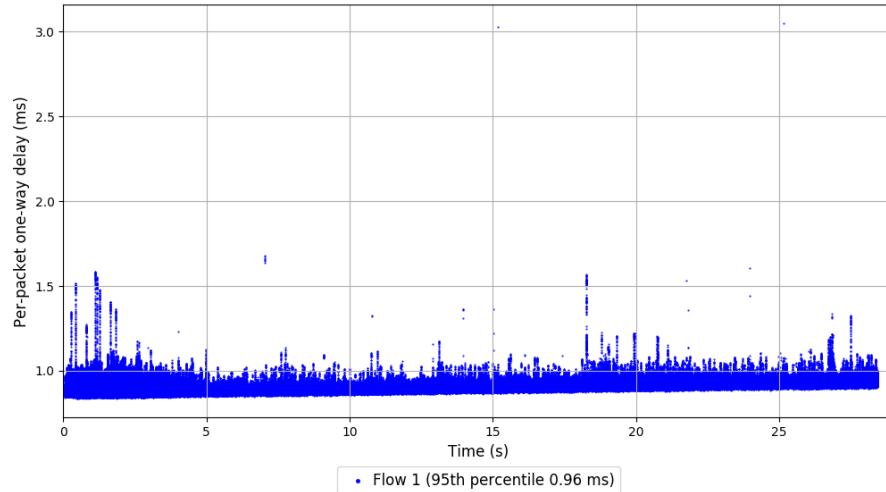
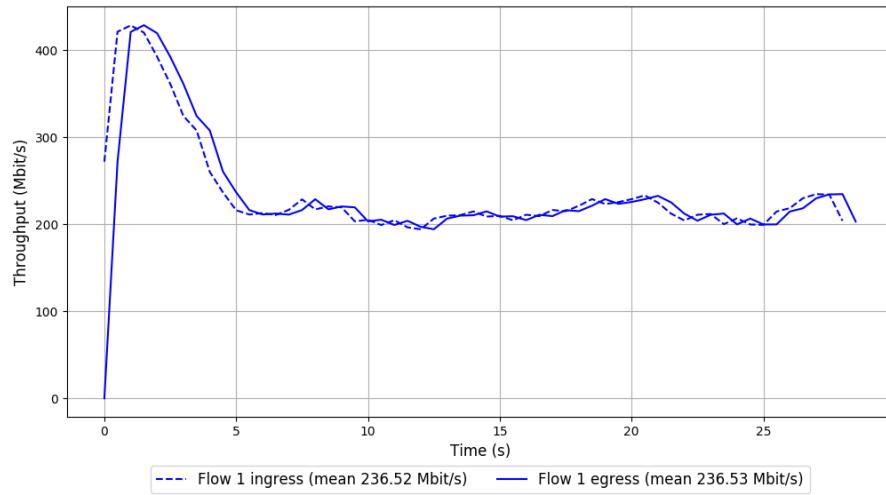


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-06-28 08:12:46
End at: 2019-06-28 08:13:16
Local clock offset: -0.825 ms
Remote clock offset: 1.425 ms

# Below is generated by plot.py at 2019-06-28 09:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 236.53 Mbit/s
95th percentile per-packet one-way delay: 0.962 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 236.53 Mbit/s
95th percentile per-packet one-way delay: 0.962 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesT — Data Link

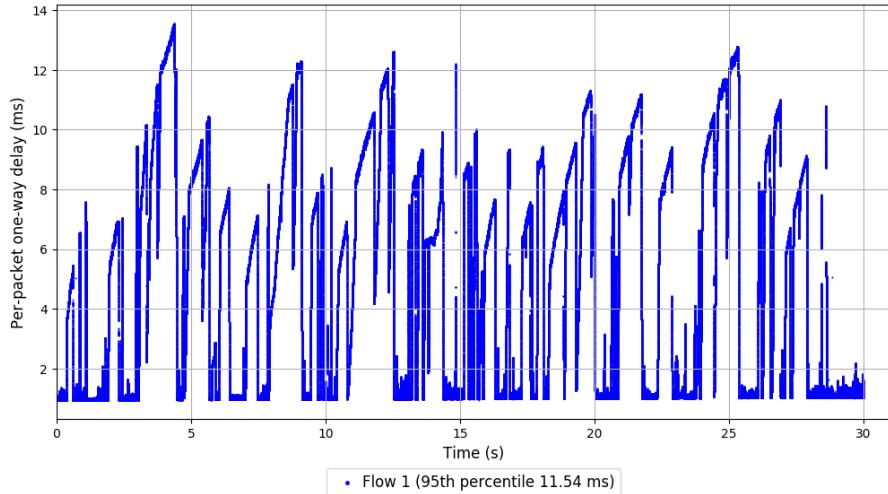
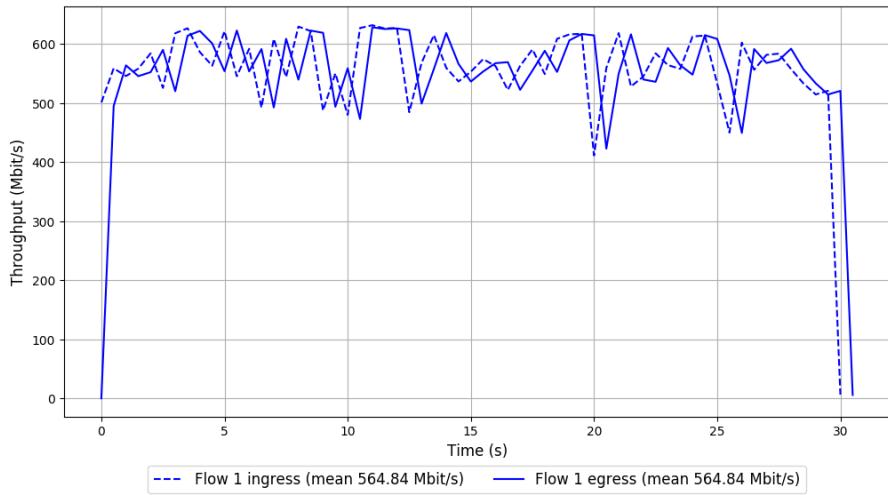


Run 1: Statistics of LEDBAT

```
Start at: 2019-06-28 06:04:05
End at: 2019-06-28 06:04:35
Local clock offset: 2.889 ms
Remote clock offset: -3.849 ms

# Below is generated by plot.py at 2019-06-28 09:23:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 564.84 Mbit/s
95th percentile per-packet one-way delay: 11.535 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 564.84 Mbit/s
95th percentile per-packet one-way delay: 11.535 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link

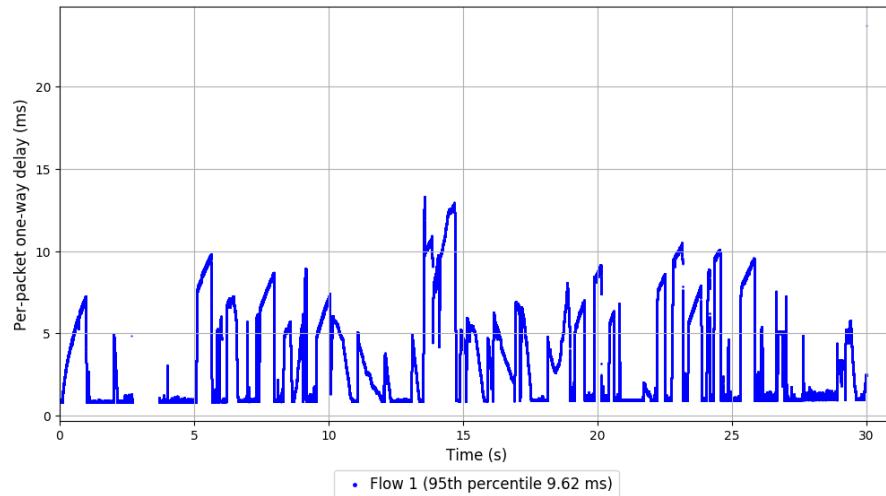
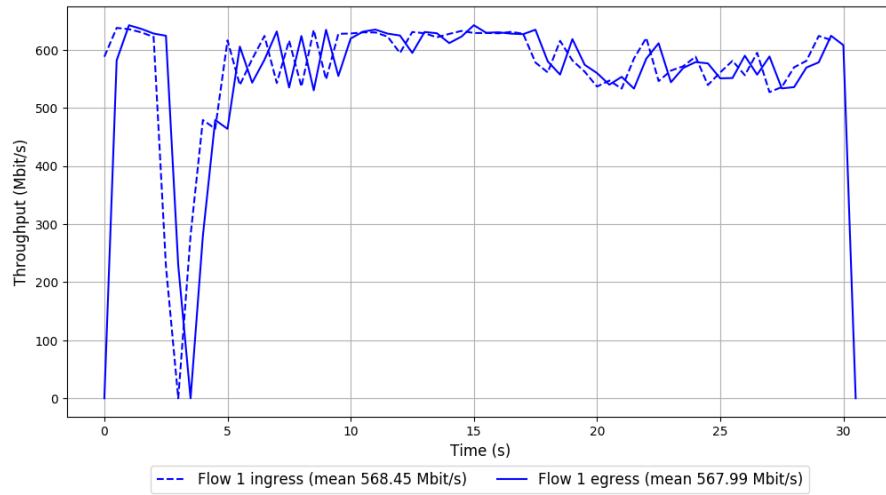


Run 2: Statistics of LEDBAT

```
Start at: 2019-06-28 06:35:01
End at: 2019-06-28 06:35:31
Local clock offset: 2.678 ms
Remote clock offset: -2.121 ms

# Below is generated by plot.py at 2019-06-28 09:23:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.99 Mbit/s
95th percentile per-packet one-way delay: 9.624 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 567.99 Mbit/s
95th percentile per-packet one-way delay: 9.624 ms
Loss rate: 0.04%
```

Run 2: Report of LEDBAT — Data Link

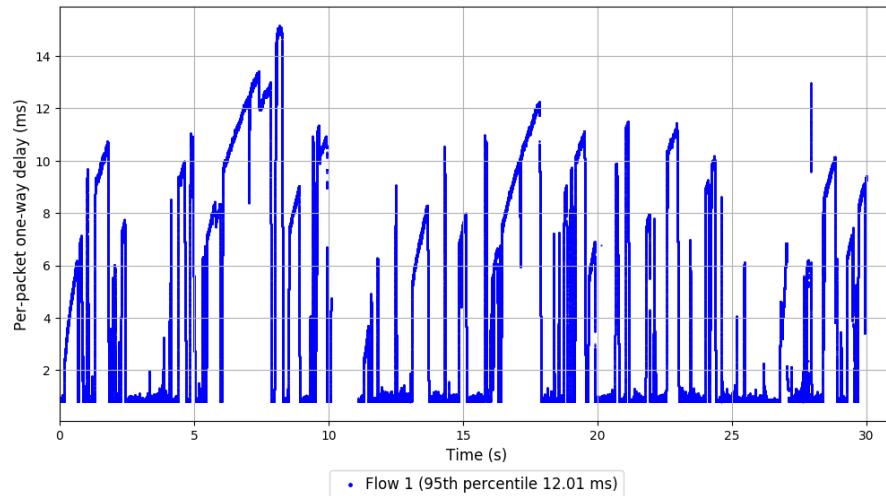
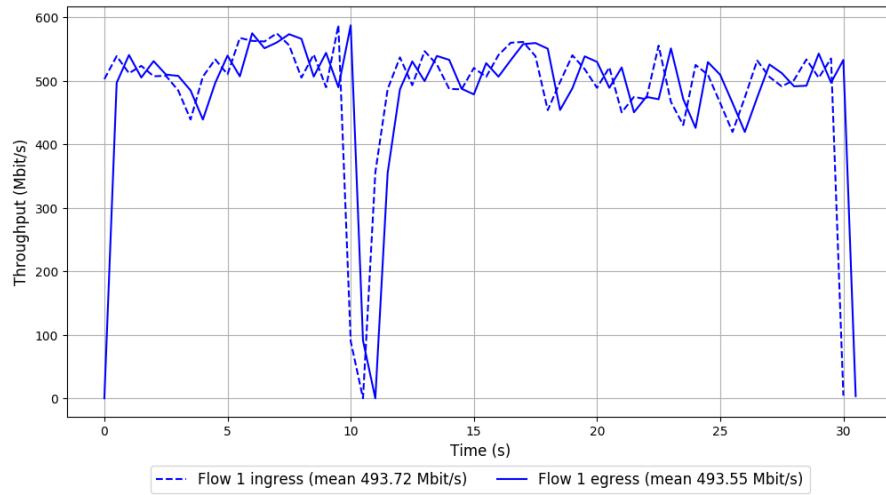


Run 3: Statistics of LEDBAT

```
Start at: 2019-06-28 07:06:09
End at: 2019-06-28 07:06:39
Local clock offset: 3.739 ms
Remote clock offset: 1.279 ms

# Below is generated by plot.py at 2019-06-28 09:23:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 493.55 Mbit/s
95th percentile per-packet one-way delay: 12.014 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 493.55 Mbit/s
95th percentile per-packet one-way delay: 12.014 ms
Loss rate: 0.04%
```

Run 3: Report of LEDBAT — Data Link

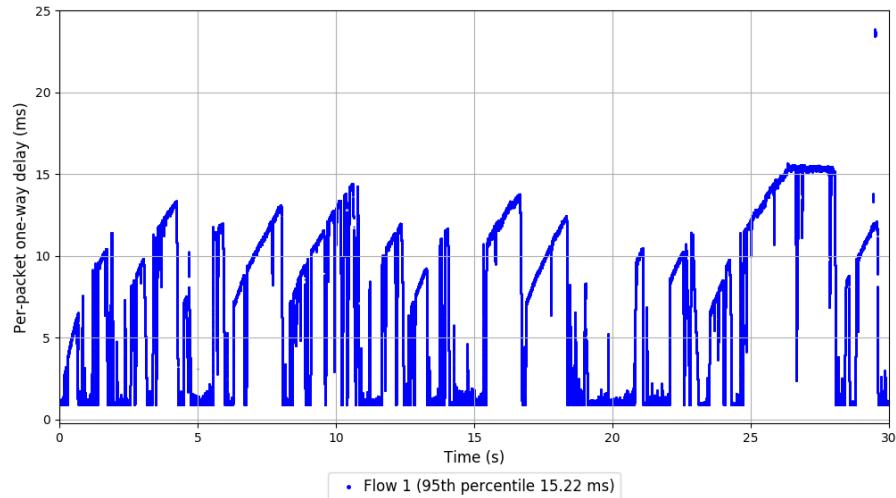
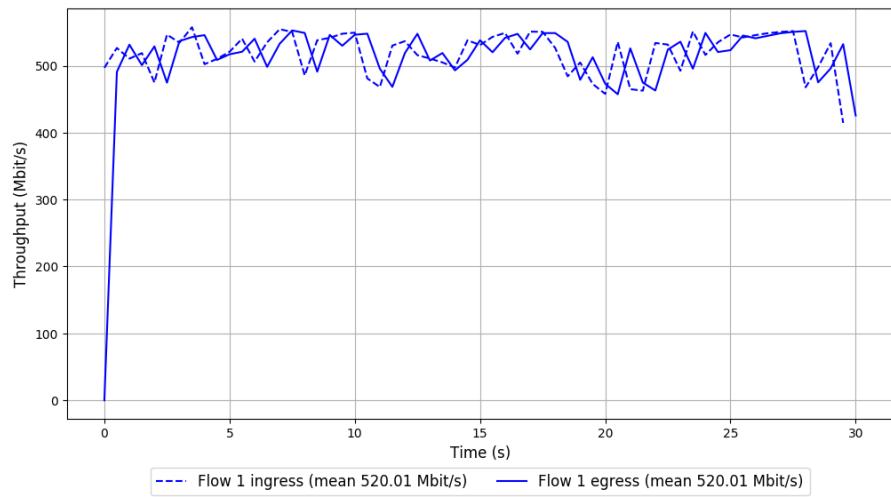


Run 4: Statistics of LEDBAT

```
Start at: 2019-06-28 07:37:14
End at: 2019-06-28 07:37:44
Local clock offset: 2.821 ms
Remote clock offset: -3.347 ms

# Below is generated by plot.py at 2019-06-28 09:23:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 520.01 Mbit/s
95th percentile per-packet one-way delay: 15.219 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 520.01 Mbit/s
95th percentile per-packet one-way delay: 15.219 ms
Loss rate: 0.01%
```

Run 4: Report of LEDBAT — Data Link

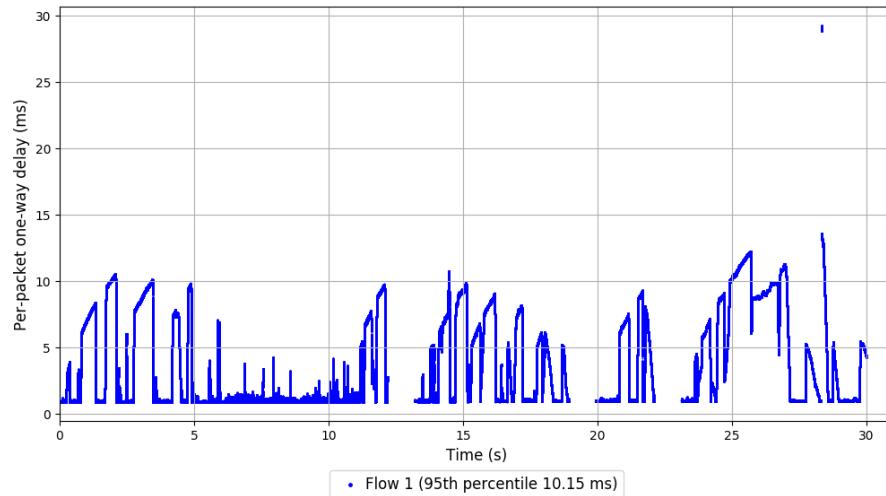
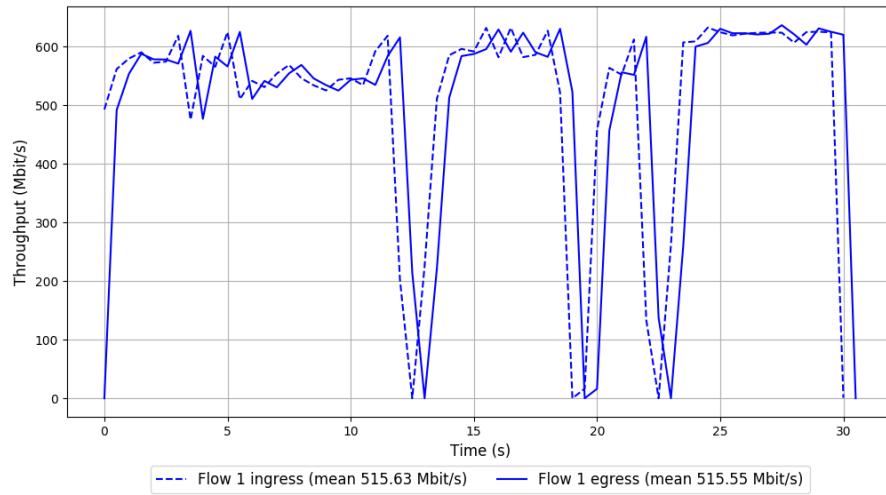


Run 5: Statistics of LEDBAT

```
Start at: 2019-06-28 08:07:56
End at: 2019-06-28 08:08:26
Local clock offset: -0.517 ms
Remote clock offset: 1.048 ms

# Below is generated by plot.py at 2019-06-28 09:23:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 515.55 Mbit/s
95th percentile per-packet one-way delay: 10.152 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 515.55 Mbit/s
95th percentile per-packet one-way delay: 10.152 ms
Loss rate: 0.02%
```

Run 5: Report of LEDBAT — Data Link

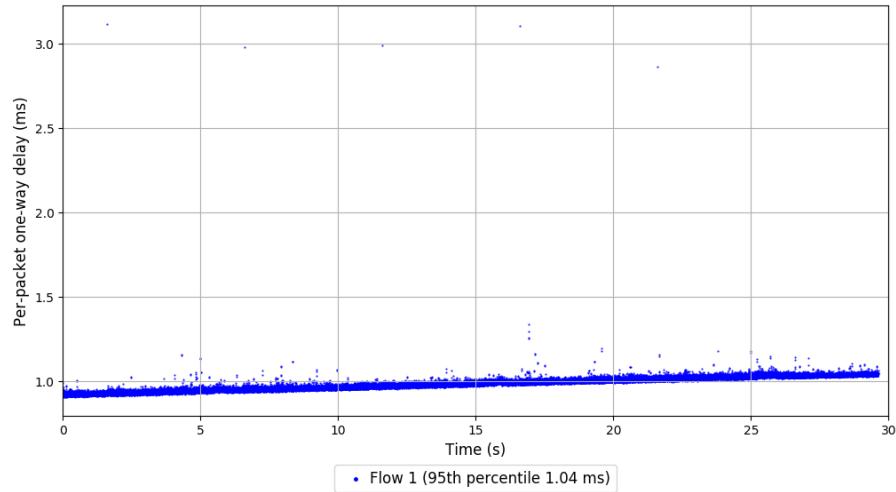
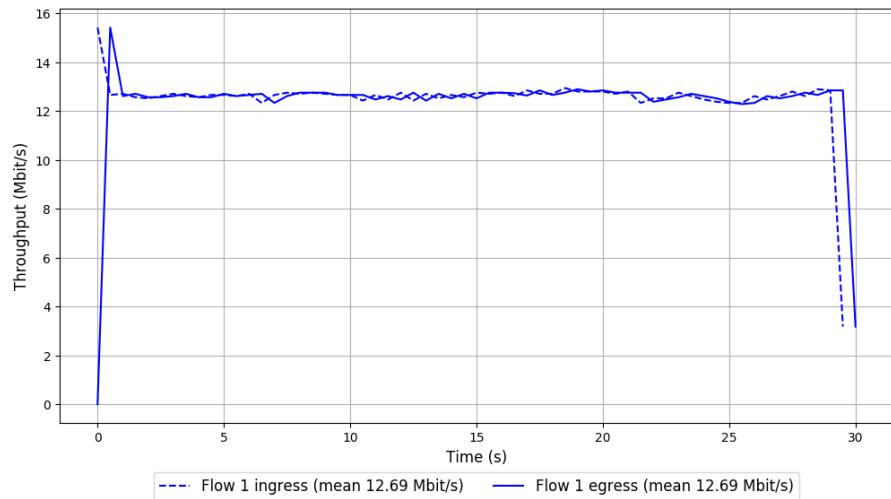


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 06:01:14
End at: 2019-06-28 06:01:44
Local clock offset: 2.879 ms
Remote clock offset: -4.456 ms

# Below is generated by plot.py at 2019-06-28 09:23:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 1.040 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 1.040 ms
Loss rate: 0.01%
```

Run 1: Report of Muses_DecisionTree — Data Link

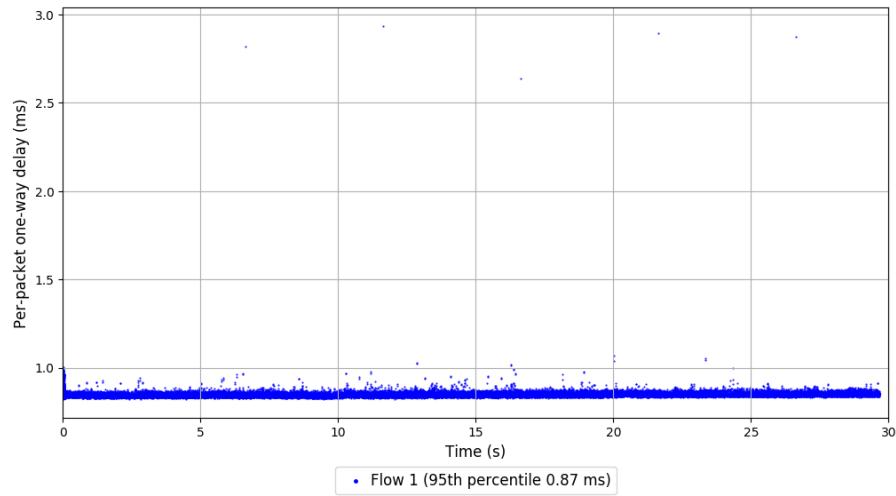
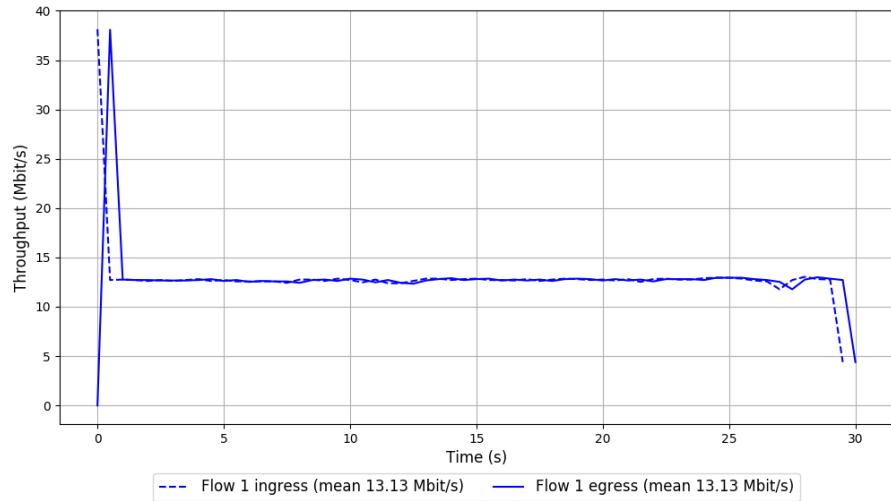


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 06:32:09
End at: 2019-06-28 06:32:39
Local clock offset: 2.703 ms
Remote clock offset: -2.154 ms

# Below is generated by plot.py at 2019-06-28 09:23:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.13 Mbit/s
95th percentile per-packet one-way delay: 0.870 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 13.13 Mbit/s
95th percentile per-packet one-way delay: 0.870 ms
Loss rate: 0.01%
```

Run 2: Report of Muses_DecisionTree — Data Link

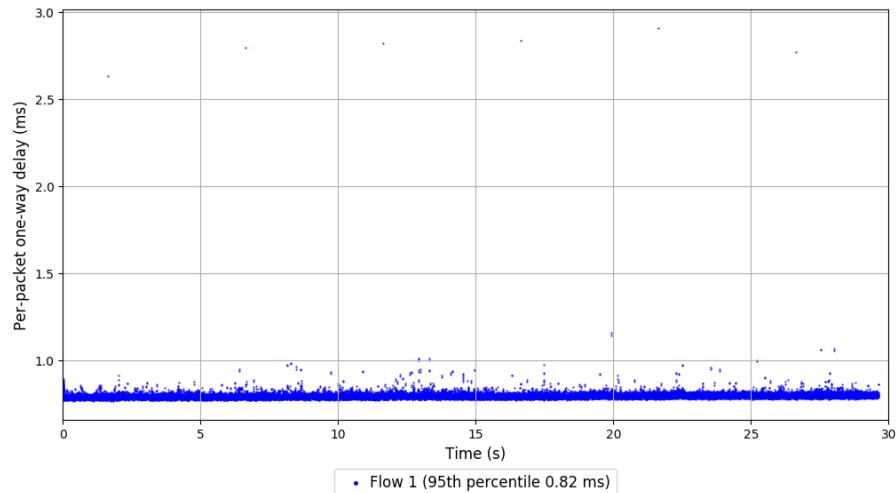
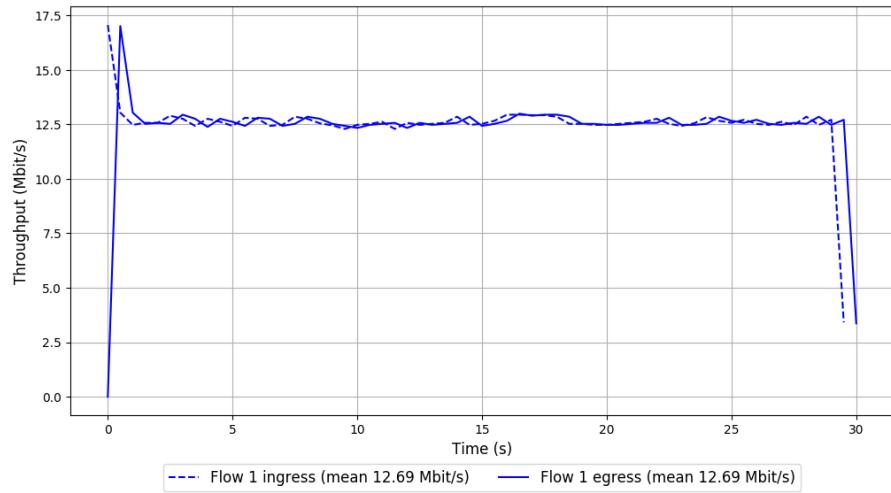


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 07:03:17
End at: 2019-06-28 07:03:47
Local clock offset: 3.657 ms
Remote clock offset: 1.171 ms

# Below is generated by plot.py at 2019-06-28 09:23:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 0.818 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 0.818 ms
Loss rate: 0.01%
```

Run 3: Report of Muses_DecisionTree — Data Link

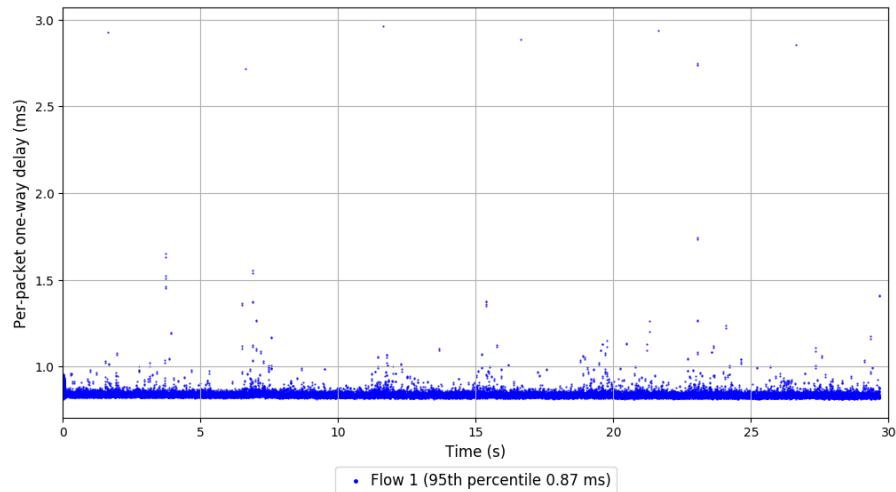
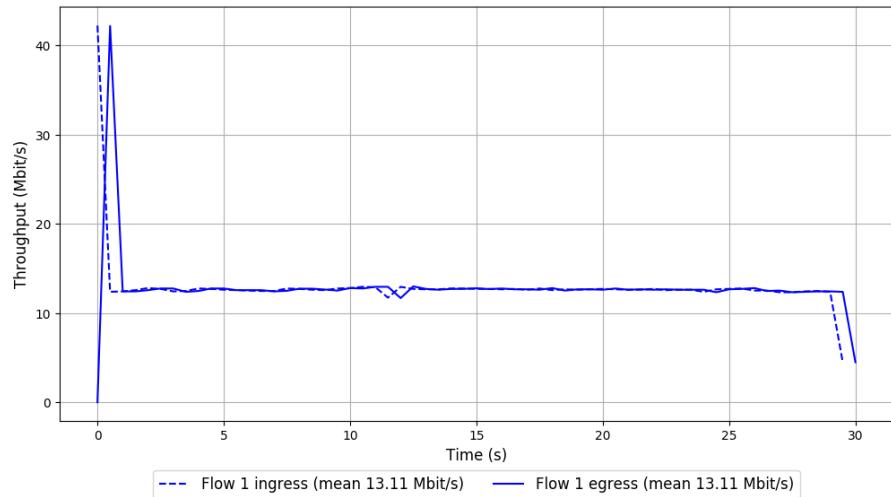


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 07:34:22
End at: 2019-06-28 07:34:52
Local clock offset: 2.875 ms
Remote clock offset: -3.112 ms

# Below is generated by plot.py at 2019-06-28 09:23:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 0.870 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 0.870 ms
Loss rate: 0.01%
```

Run 4: Report of Muses_DecisionTree — Data Link

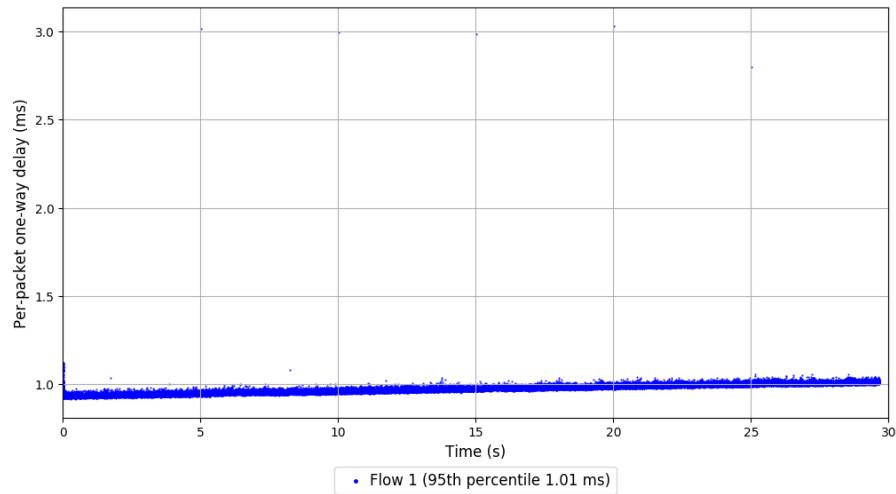
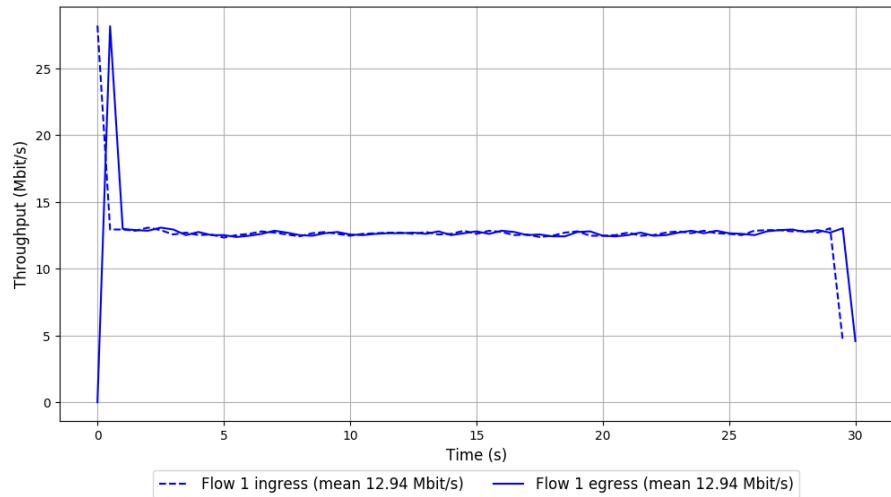


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 08:05:04
End at: 2019-06-28 08:05:34
Local clock offset: -0.285 ms
Remote clock offset: 0.775 ms

# Below is generated by plot.py at 2019-06-28 09:23:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 1.015 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 1.015 ms
Loss rate: 0.01%
```

Run 5: Report of Muses_DecisionTree — Data Link

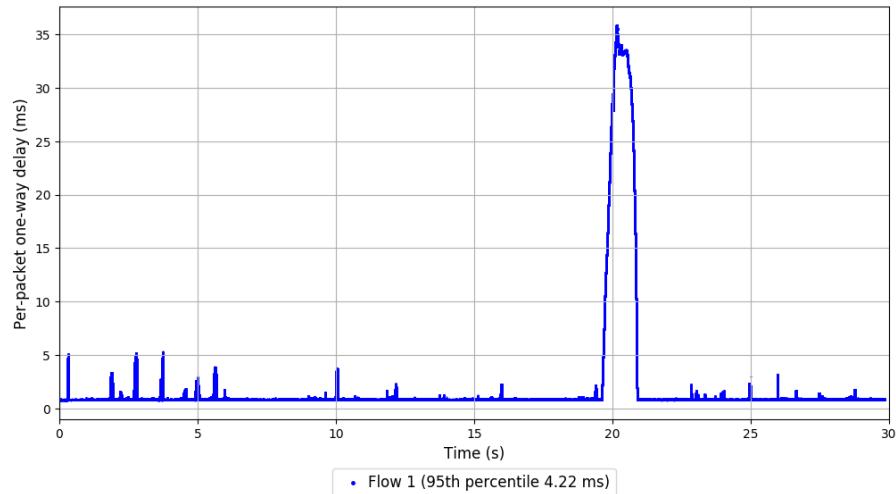
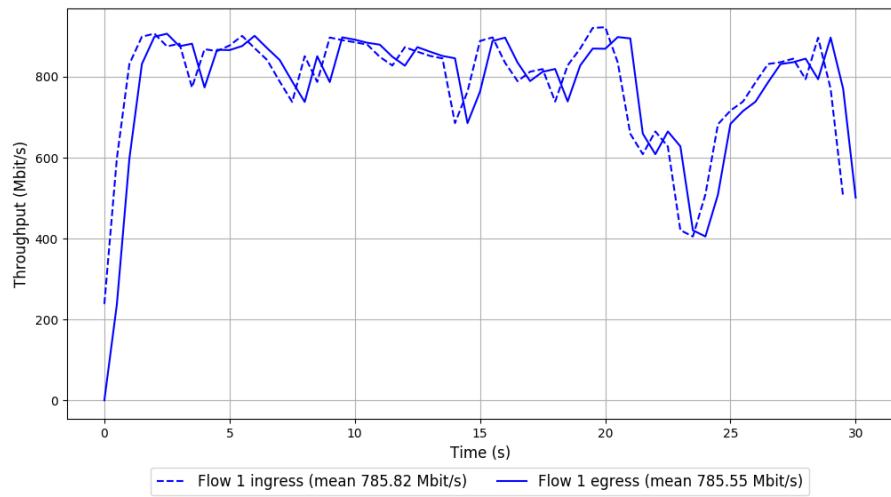


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-06-28 06:25:12
End at: 2019-06-28 06:25:42
Local clock offset: 2.804 ms
Remote clock offset: -2.222 ms

# Below is generated by plot.py at 2019-06-28 09:27:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 785.55 Mbit/s
95th percentile per-packet one-way delay: 4.221 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 785.55 Mbit/s
95th percentile per-packet one-way delay: 4.221 ms
Loss rate: 0.04%
```

Run 1: Report of PCC-Allegro — Data Link

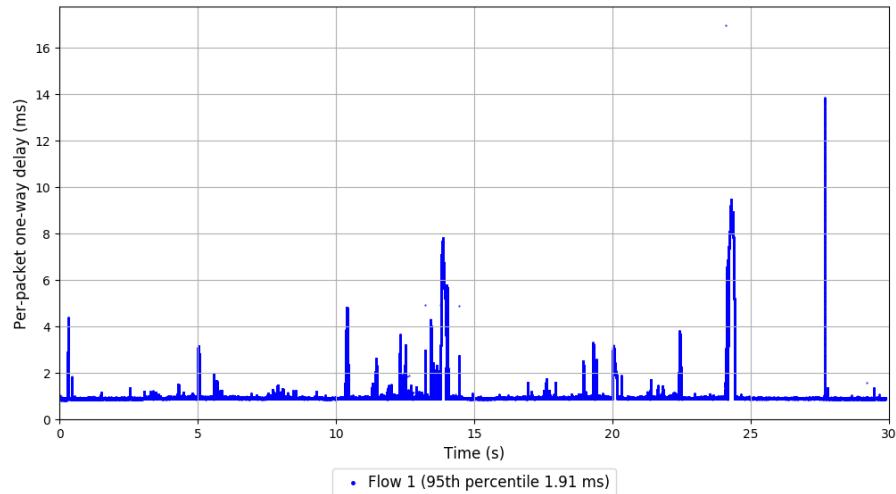
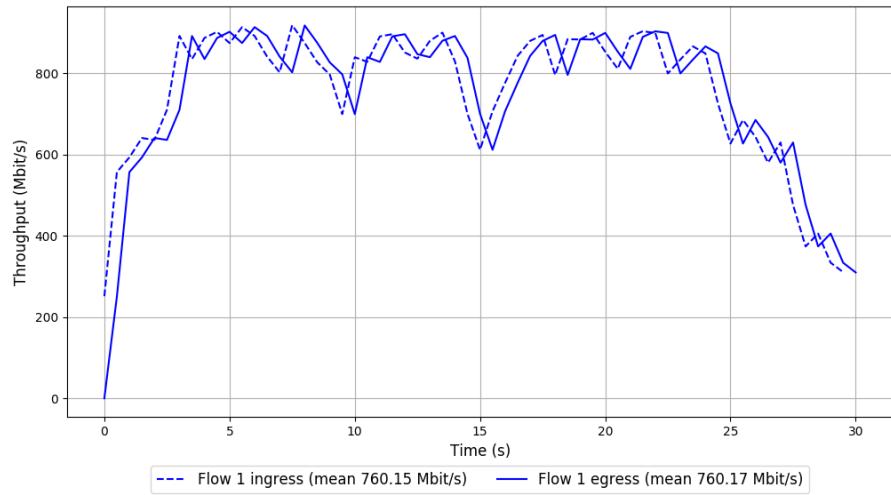


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-06-28 06:56:21
End at: 2019-06-28 06:56:51
Local clock offset: 3.399 ms
Remote clock offset: 0.705 ms

# Below is generated by plot.py at 2019-06-28 09:27:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 760.17 Mbit/s
95th percentile per-packet one-way delay: 1.906 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 760.17 Mbit/s
95th percentile per-packet one-way delay: 1.906 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Allegro — Data Link

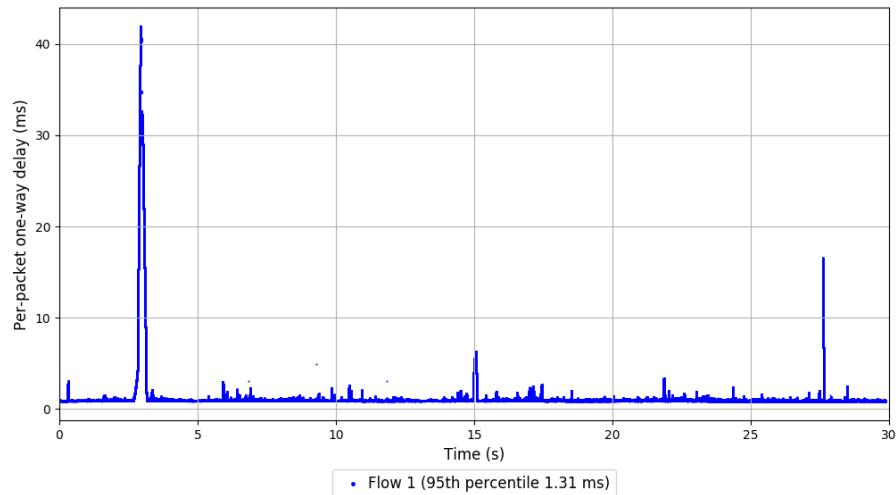
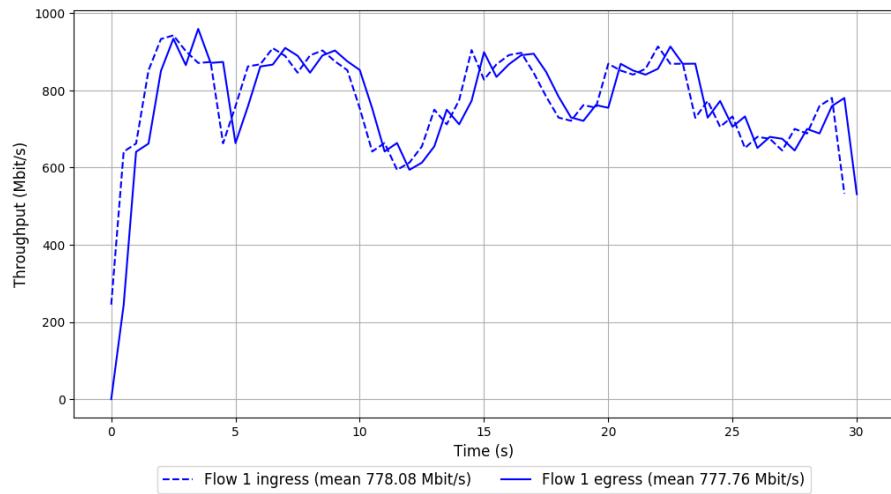


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-06-28 07:27:24
End at: 2019-06-28 07:27:54
Local clock offset: 3.175 ms
Remote clock offset: -2.666 ms

# Below is generated by plot.py at 2019-06-28 09:31:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 777.76 Mbit/s
95th percentile per-packet one-way delay: 1.311 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 777.76 Mbit/s
95th percentile per-packet one-way delay: 1.311 ms
Loss rate: 0.05%
```

Run 3: Report of PCC-Allegro — Data Link

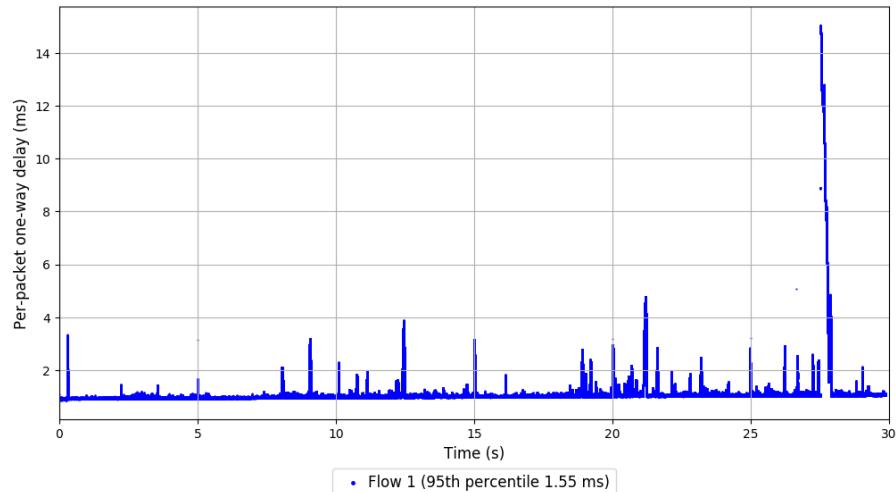
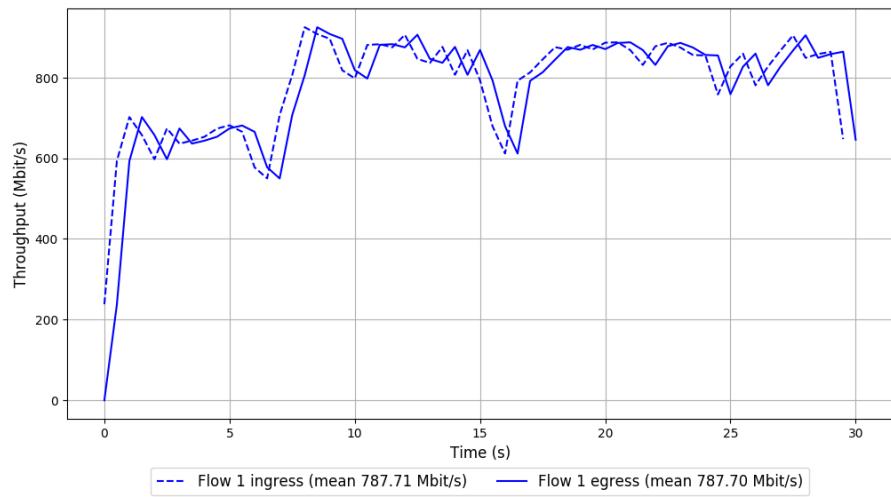


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-06-28 07:58:09
End at: 2019-06-28 07:58:39
Local clock offset: 0.499 ms
Remote clock offset: 0.136 ms

# Below is generated by plot.py at 2019-06-28 09:32:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 787.70 Mbit/s
95th percentile per-packet one-way delay: 1.550 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 787.70 Mbit/s
95th percentile per-packet one-way delay: 1.550 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Allegro — Data Link

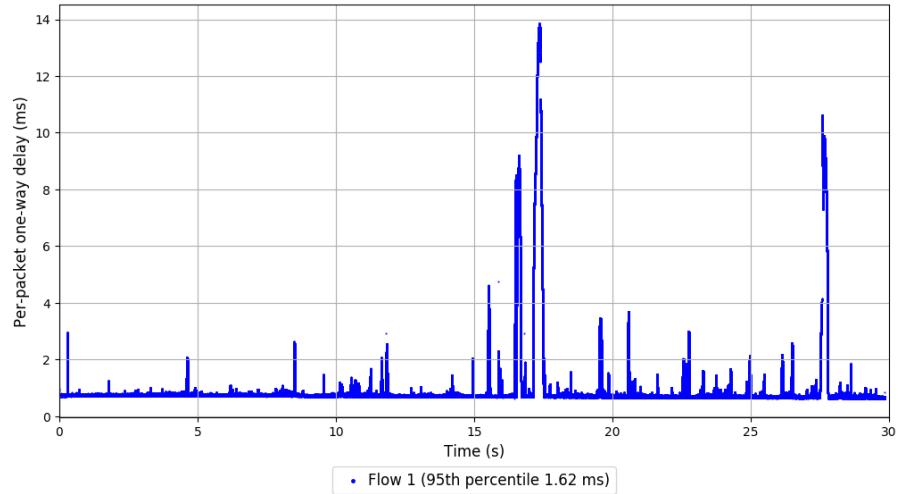
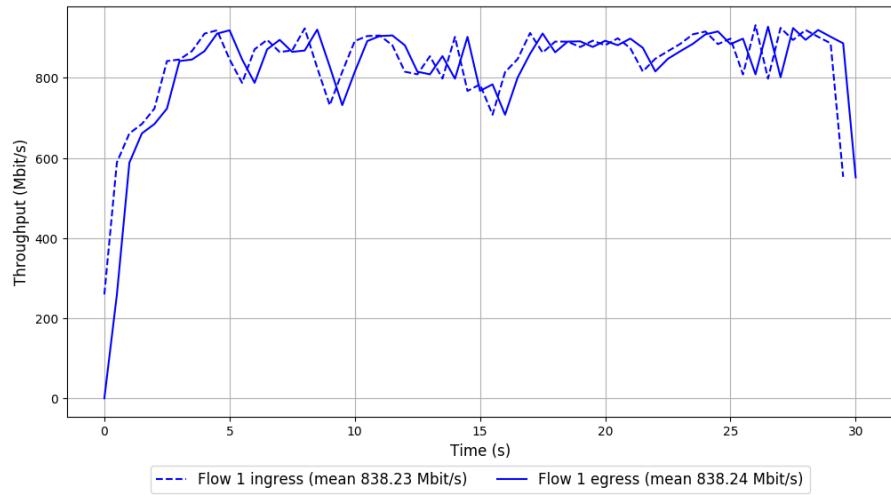


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-06-28 08:29:18
End at: 2019-06-28 08:29:48
Local clock offset: 0.579 ms
Remote clock offset: -1.937 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 838.24 Mbit/s
95th percentile per-packet one-way delay: 1.625 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 838.24 Mbit/s
95th percentile per-packet one-way delay: 1.625 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Allegro — Data Link

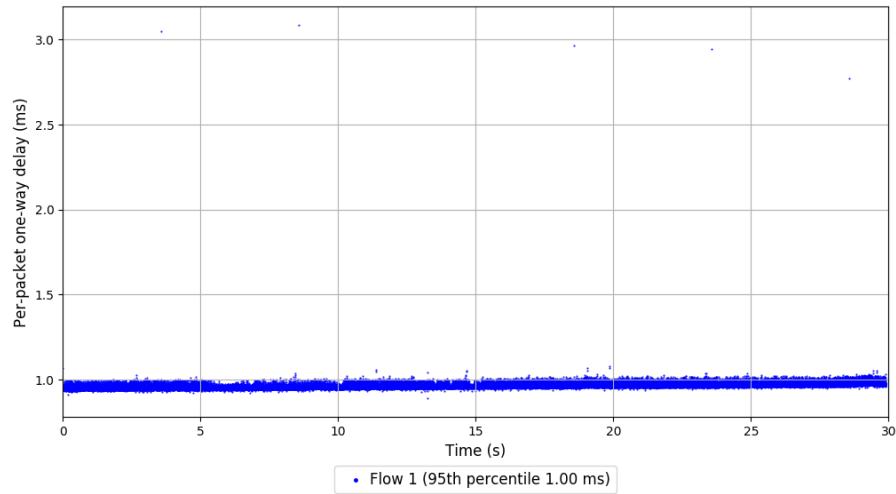
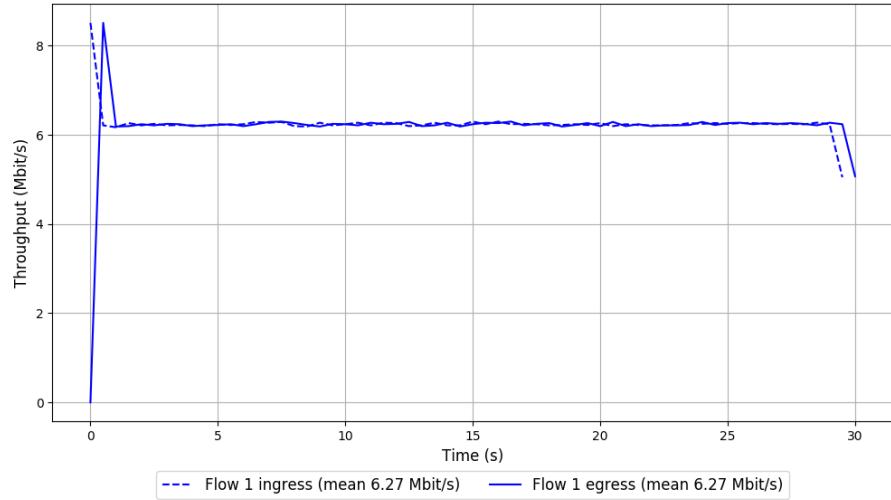


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-06-28 06:15:51
End at: 2019-06-28 06:16:21
Local clock offset: 2.84 ms
Remote clock offset: -2.597 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 0.999 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 0.999 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

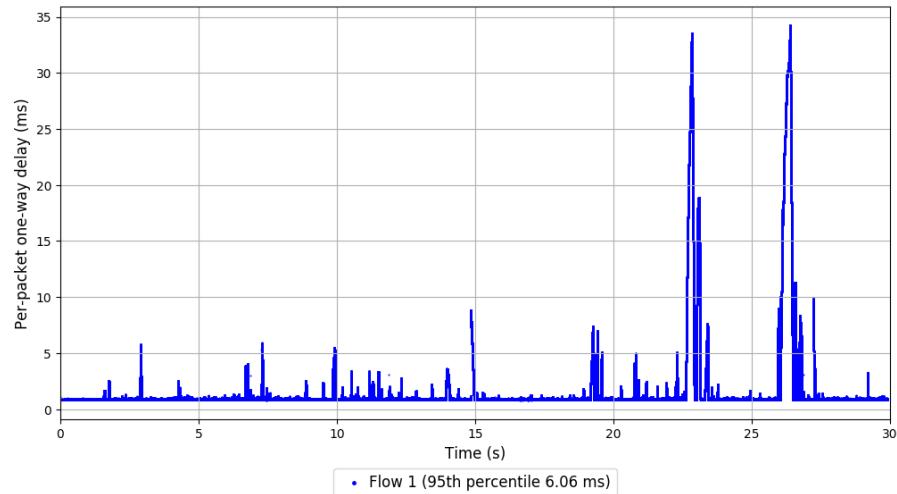
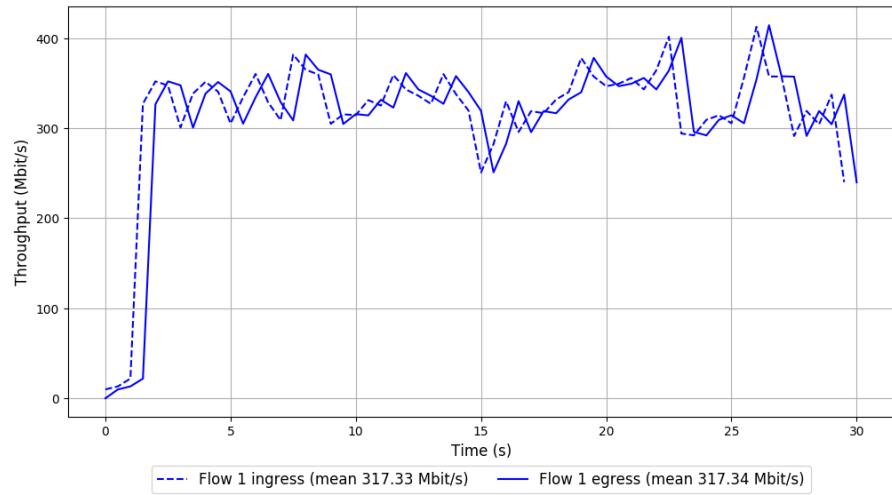


```
Run 2: Statistics of PCC-Expr
```

```
Start at: 2019-06-28 06:46:48
End at: 2019-06-28 06:47:18
Local clock offset: 2.712 ms
Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.34 Mbit/s
95th percentile per-packet one-way delay: 6.063 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 317.34 Mbit/s
95th percentile per-packet one-way delay: 6.063 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Expr — Data Link

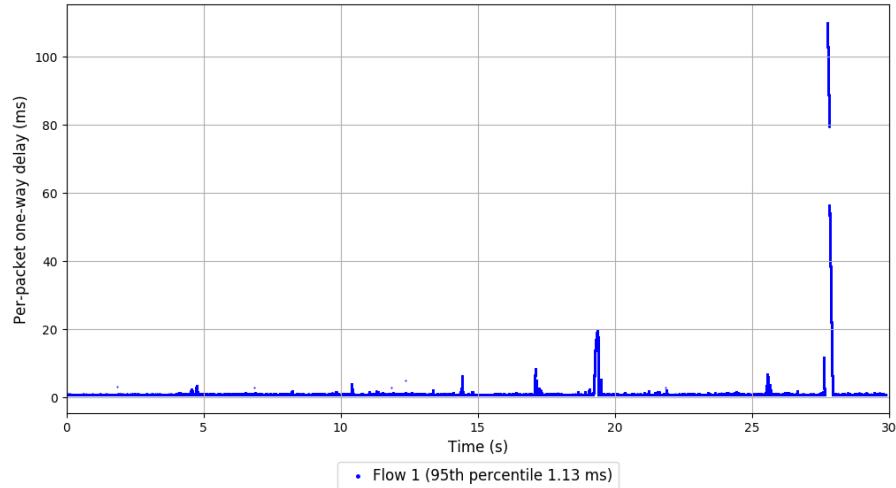
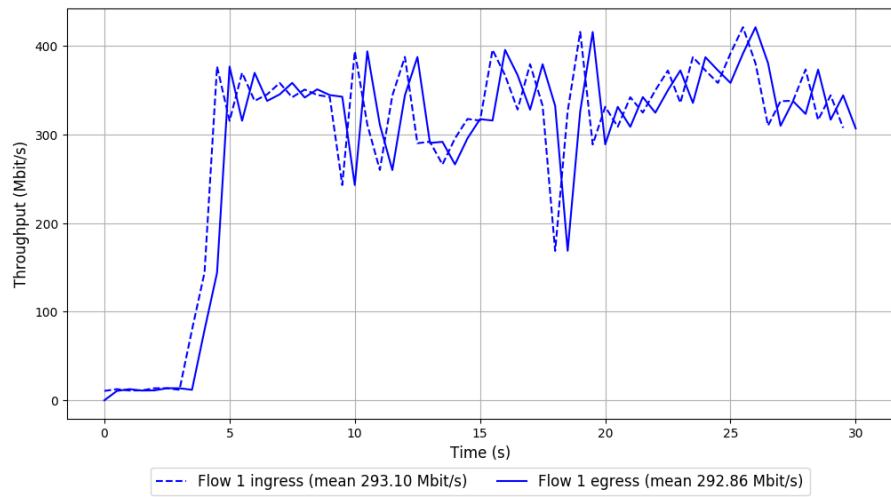


Run 3: Statistics of PCC-Expr

```
Start at: 2019-06-28 07:17:52
End at: 2019-06-28 07:18:22
Local clock offset: 3.931 ms
Remote clock offset: -1.374 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.86 Mbit/s
95th percentile per-packet one-way delay: 1.131 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 292.86 Mbit/s
95th percentile per-packet one-way delay: 1.131 ms
Loss rate: 0.09%
```

Run 3: Report of PCC-Expr — Data Link

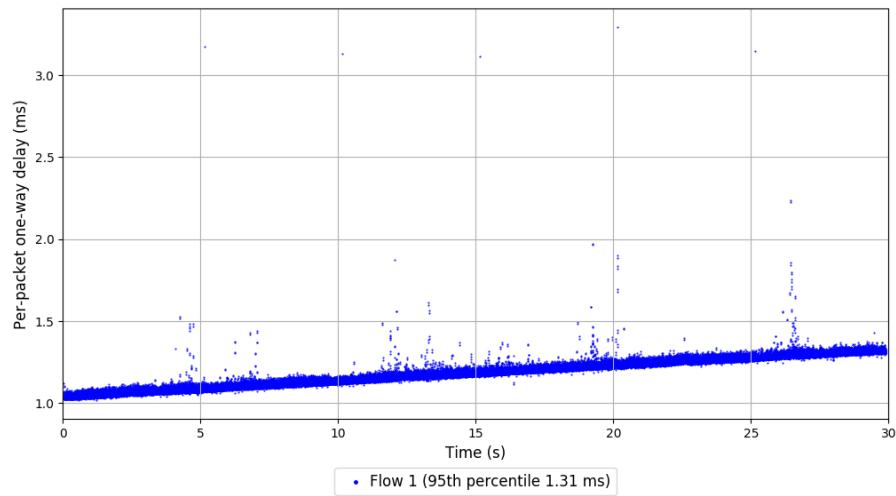
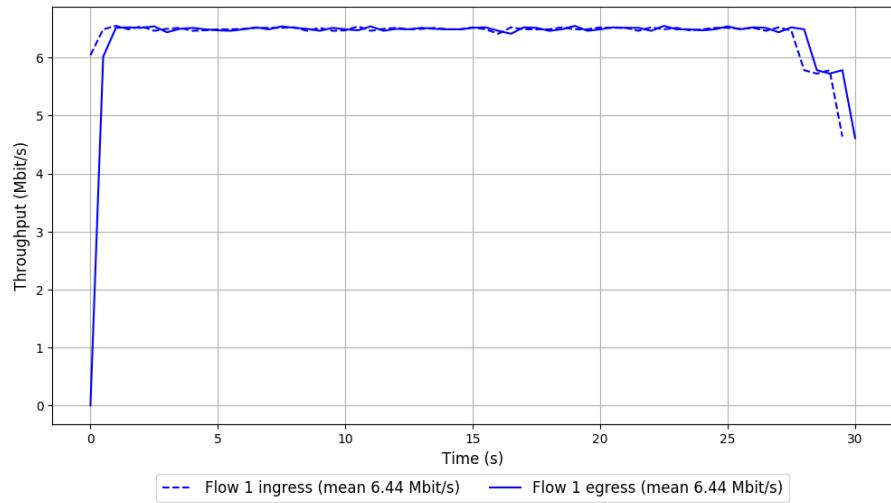


Run 4: Statistics of PCC-Expr

```
Start at: 2019-06-28 07:48:47
End at: 2019-06-28 07:49:17
Local clock offset: 2.54 ms
Remote clock offset: -1.533 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 1.312 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 1.312 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Expr — Data Link

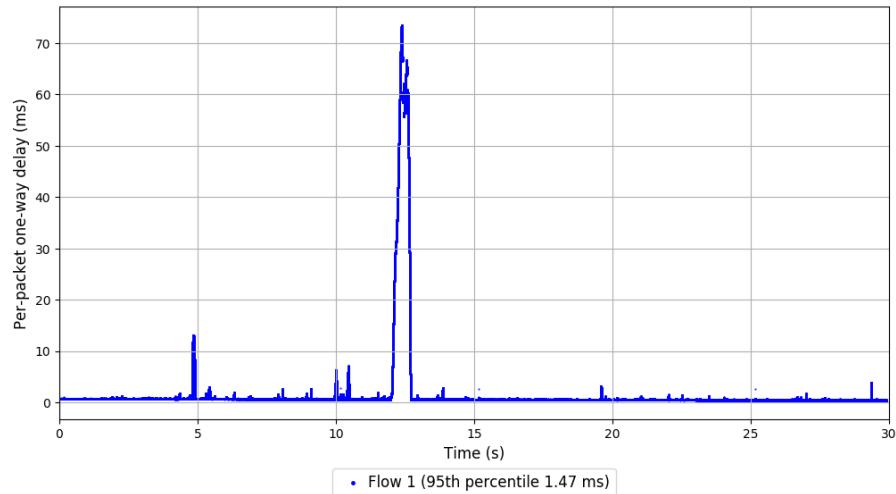
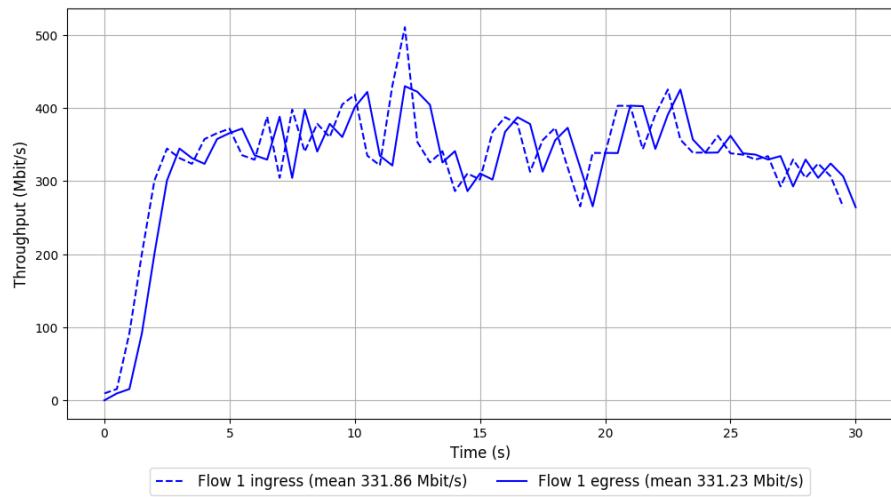


Run 5: Statistics of PCC-Expr

```
Start at: 2019-06-28 08:19:38
End at: 2019-06-28 08:20:08
Local clock offset: -0.744 ms
Remote clock offset: 0.608 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.23 Mbit/s
95th percentile per-packet one-way delay: 1.469 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 331.23 Mbit/s
95th percentile per-packet one-way delay: 1.469 ms
Loss rate: 0.20%
```

Run 5: Report of PCC-Expr — Data Link

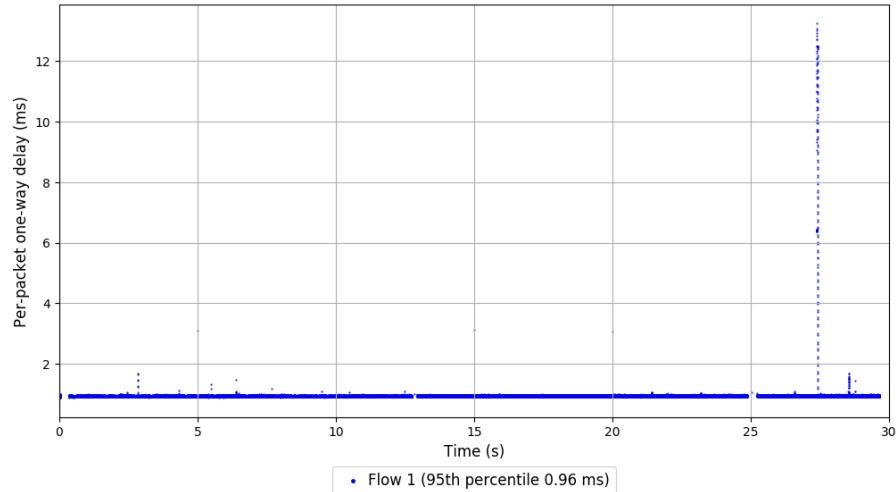
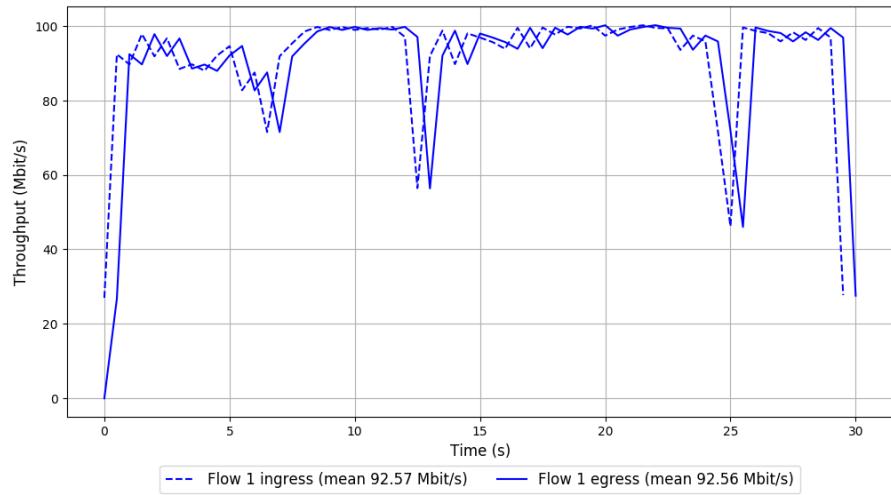


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-06-28 06:20:58
End at: 2019-06-28 06:21:28
Local clock offset: 2.81 ms
Remote clock offset: -2.421 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.56 Mbit/s
95th percentile per-packet one-way delay: 0.960 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 92.56 Mbit/s
95th percentile per-packet one-way delay: 0.960 ms
Loss rate: 0.01%
```

Run 1: Report of QUIC Cubic — Data Link

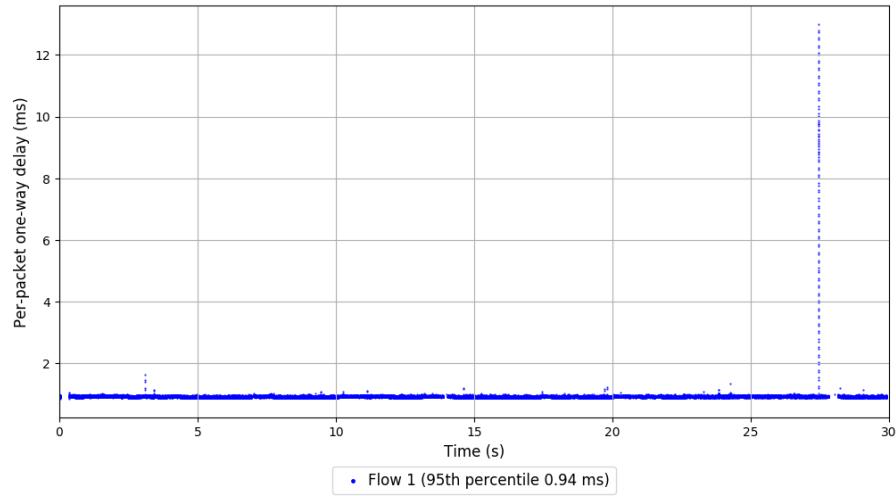
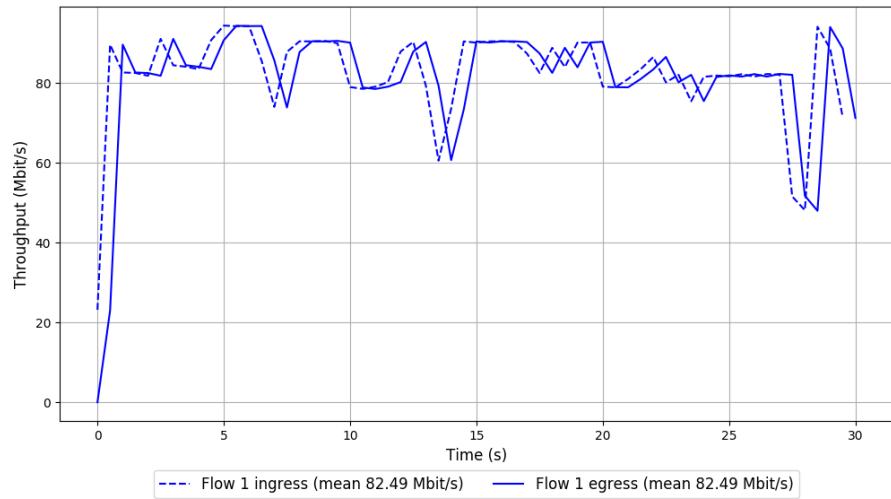


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-06-28 06:52:11
End at: 2019-06-28 06:52:41
Local clock offset: 3.133 ms
Remote clock offset: 0.428 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.49 Mbit/s
95th percentile per-packet one-way delay: 0.938 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 82.49 Mbit/s
95th percentile per-packet one-way delay: 0.938 ms
Loss rate: 0.01%
```

Run 2: Report of QUIC Cubic — Data Link

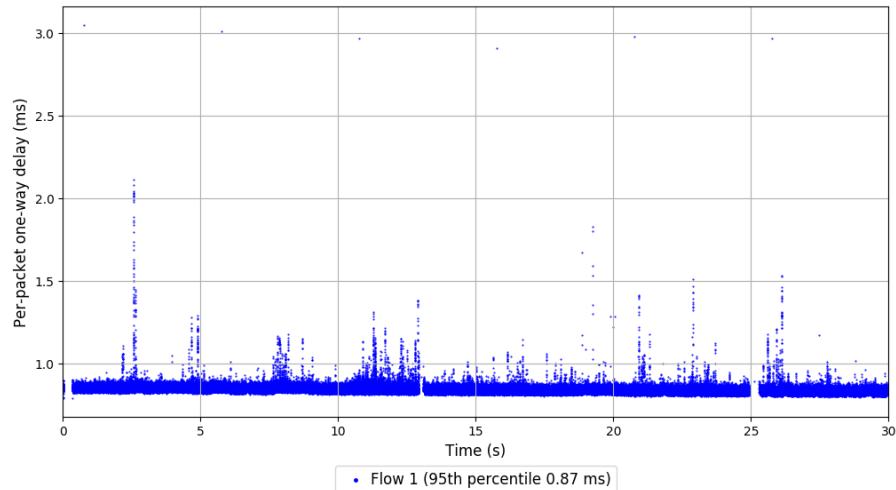
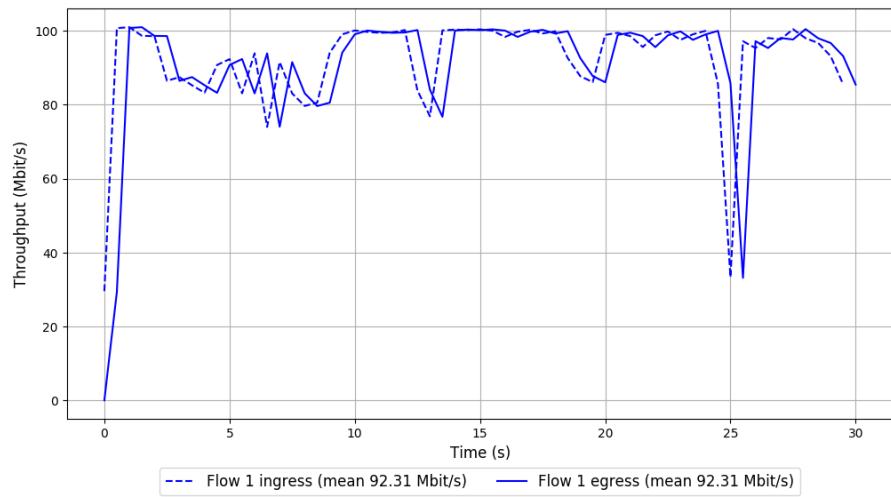


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-06-28 07:23:15
End at: 2019-06-28 07:23:45
Local clock offset: 3.468 ms
Remote clock offset: -2.204 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.31 Mbit/s
95th percentile per-packet one-way delay: 0.871 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.31 Mbit/s
95th percentile per-packet one-way delay: 0.871 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

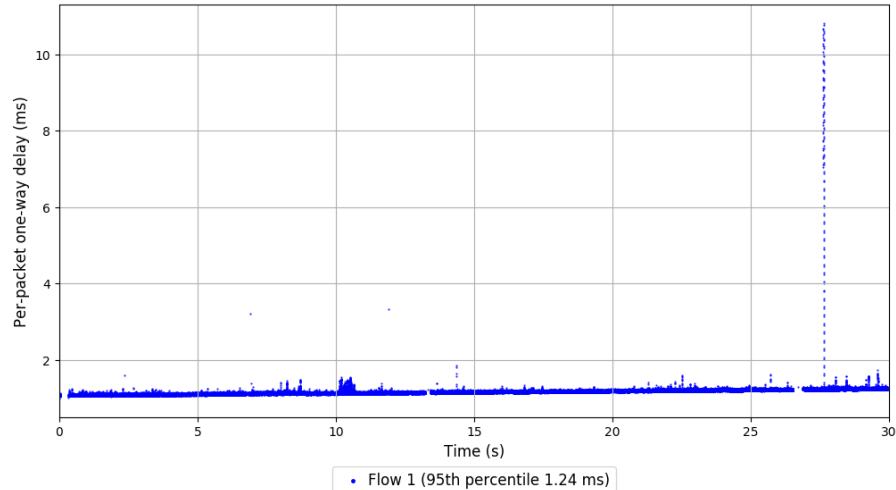
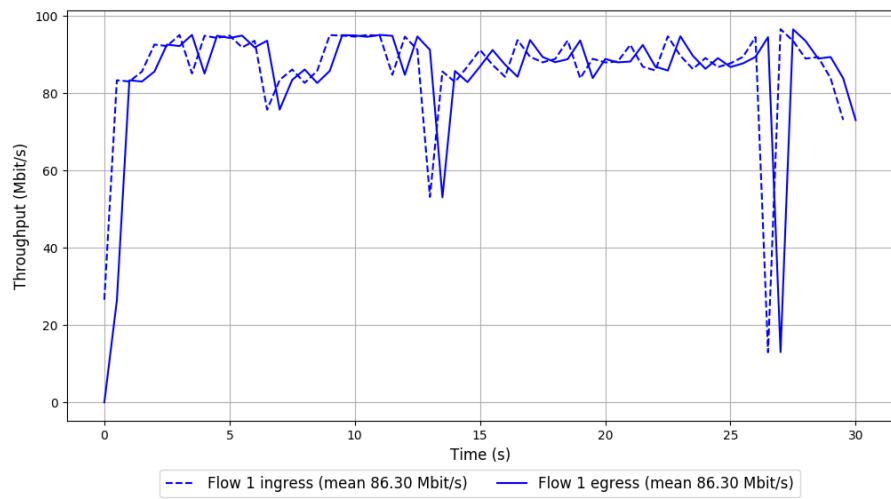


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-06-28 07:53:57
End at: 2019-06-28 07:54:27
Local clock offset: 1.187 ms
Remote clock offset: -0.575 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.30 Mbit/s
95th percentile per-packet one-way delay: 1.239 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.30 Mbit/s
95th percentile per-packet one-way delay: 1.239 ms
Loss rate: 0.01%
```

Run 4: Report of QUIC Cubic — Data Link

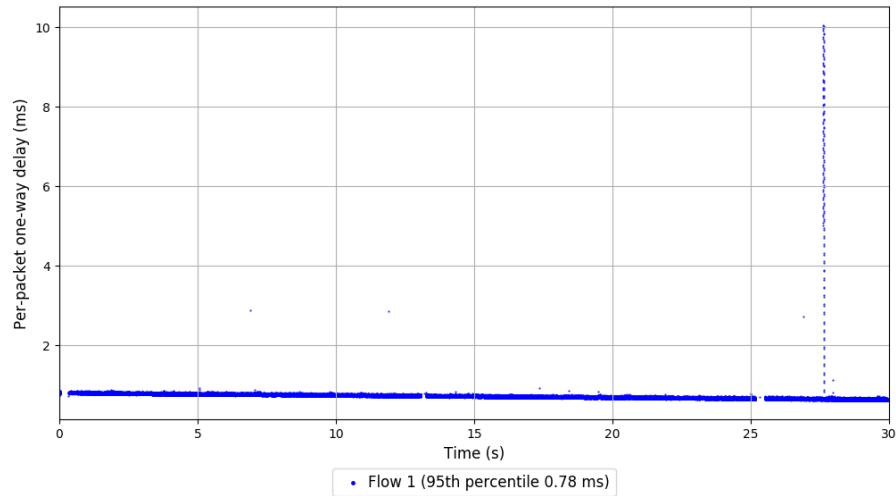
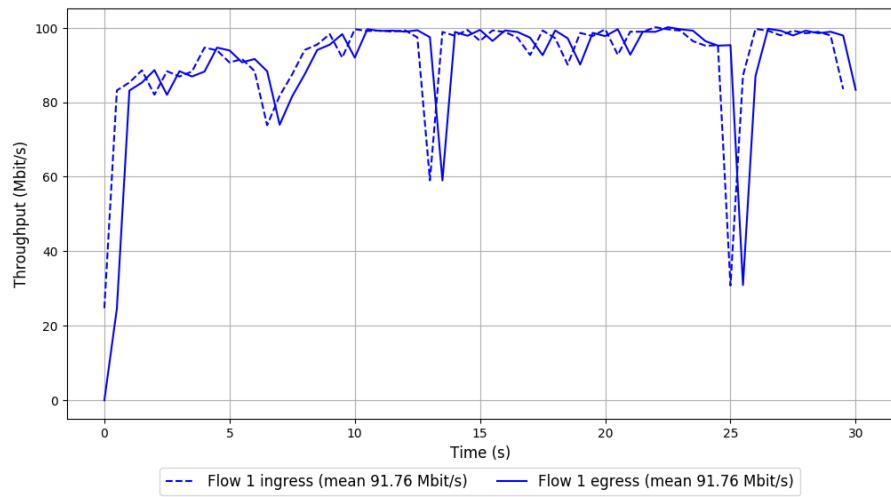


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-06-28 08:25:04
End at: 2019-06-28 08:25:34
Local clock offset: 0.188 ms
Remote clock offset: -1.172 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.76 Mbit/s
95th percentile per-packet one-way delay: 0.779 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 91.76 Mbit/s
95th percentile per-packet one-way delay: 0.779 ms
Loss rate: 0.01%
```

Run 5: Report of QUIC Cubic — Data Link

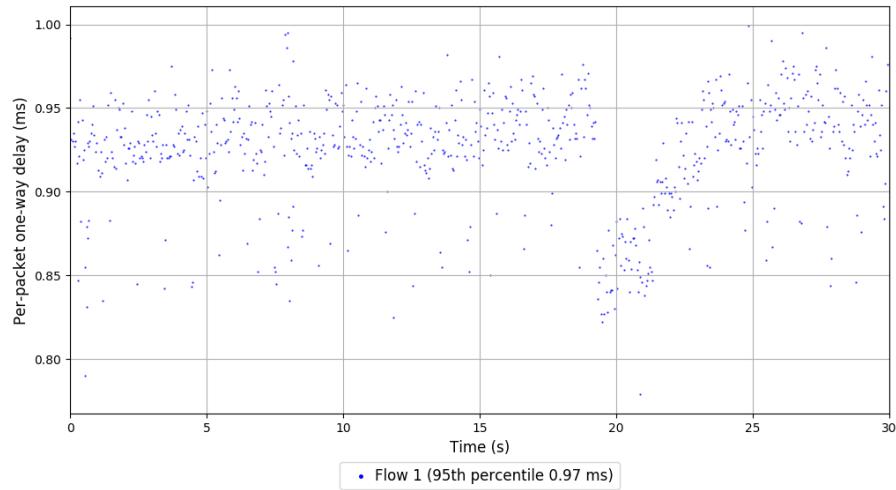
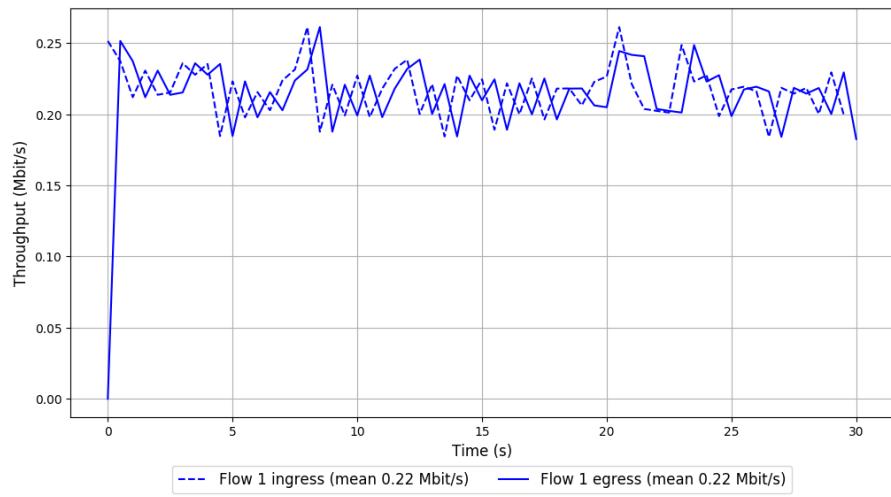


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-06-28 06:26:44
End at: 2019-06-28 06:27:14
Local clock offset: 2.77 ms
Remote clock offset: -2.225 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.967 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.967 ms
Loss rate: 0.13%
```

Run 1: Report of SCReAM — Data Link

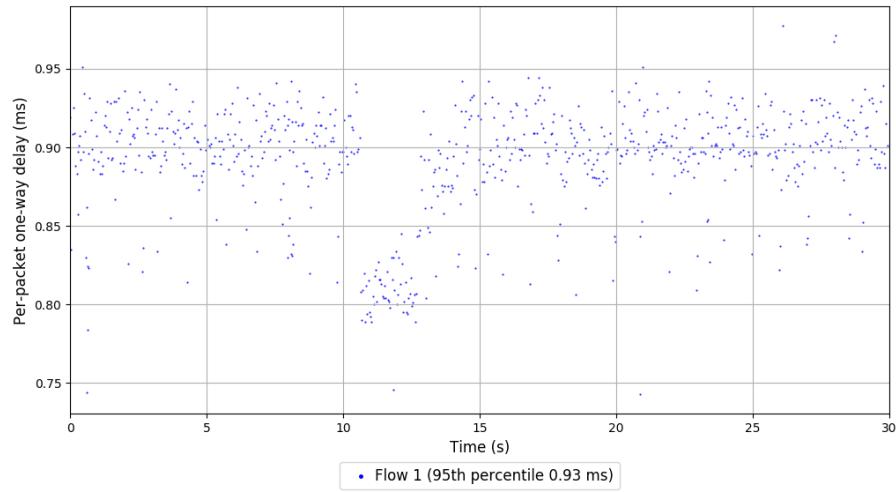
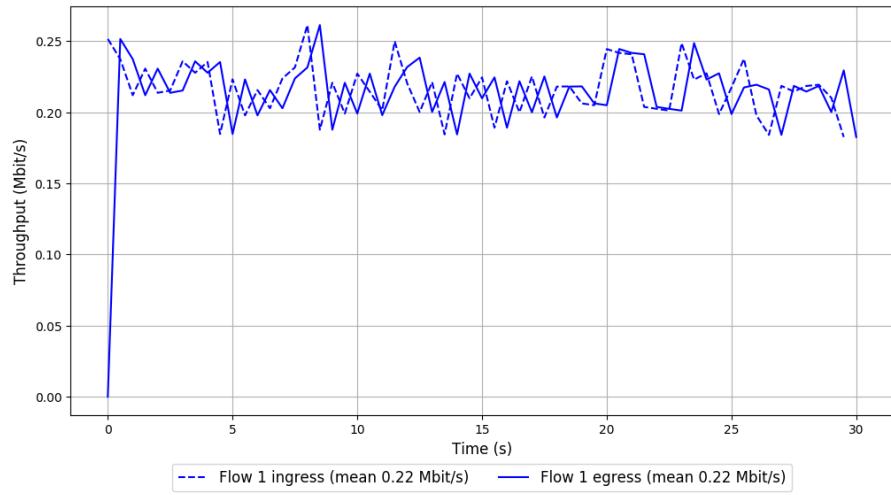


Run 2: Statistics of SCReAM

```
Start at: 2019-06-28 06:57:53
End at: 2019-06-28 06:58:23
Local clock offset: 3.476 ms
Remote clock offset: 0.869 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.932 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.932 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

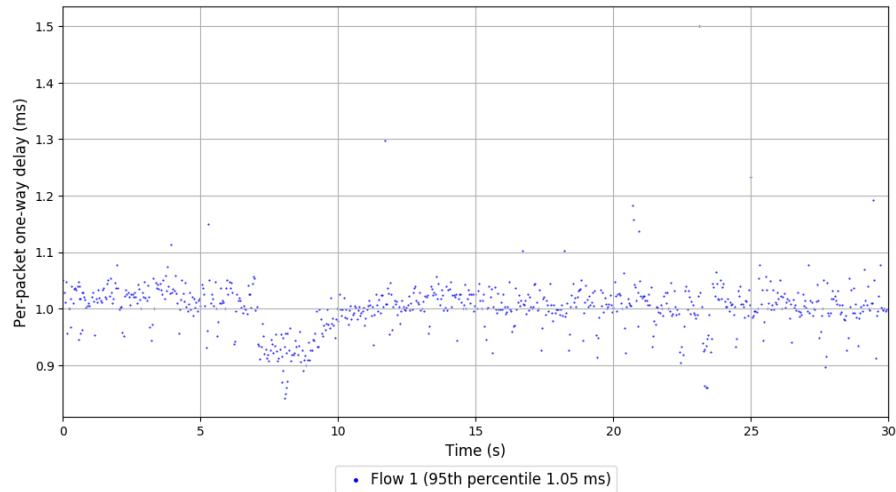
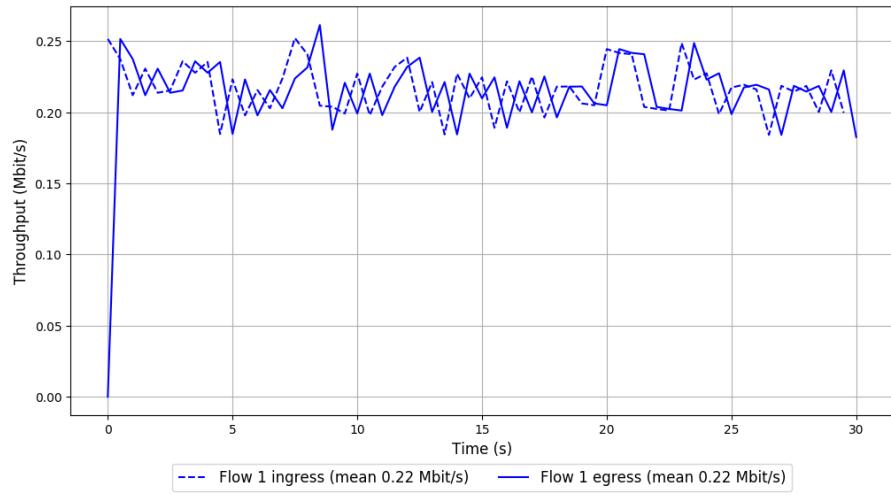


Run 3: Statistics of SCReAM

```
Start at: 2019-06-28 07:28:56
End at: 2019-06-28 07:29:26
Local clock offset: 3.108 ms
Remote clock offset: -2.871 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.050 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.050 ms
Loss rate: 0.13%
```

Run 3: Report of SCReAM — Data Link

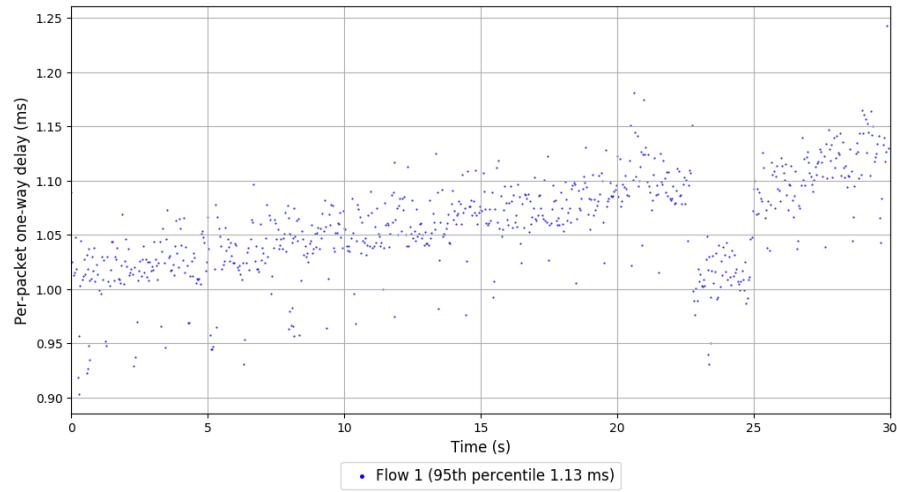
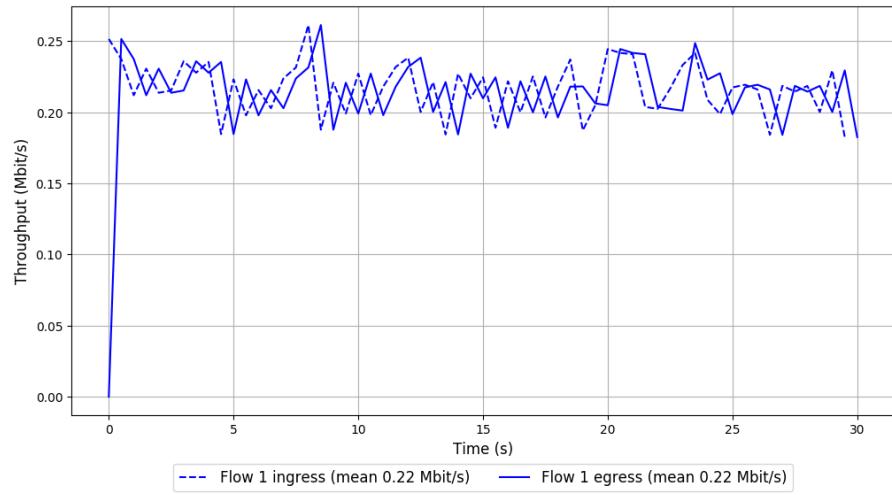


Run 4: Statistics of SCReAM

```
Start at: 2019-06-28 07:59:40
End at: 2019-06-28 08:00:10
Local clock offset: 0.286 ms
Remote clock offset: 0.31 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

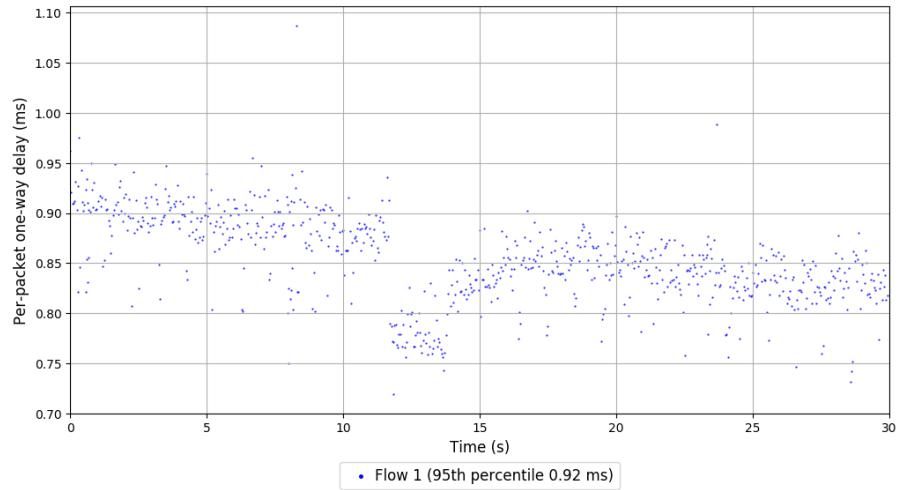
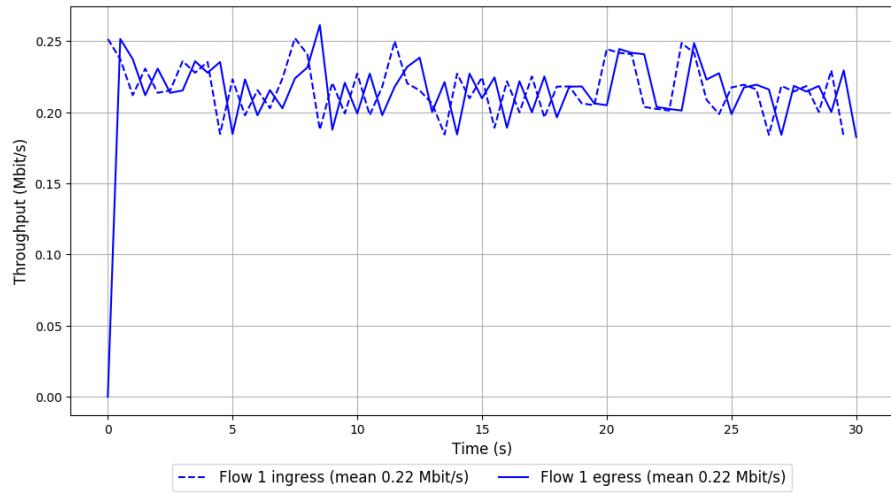


Run 5: Statistics of SCReAM

```
Start at: 2019-06-28 08:30:51
End at: 2019-06-28 08:31:21
Local clock offset: 0.683 ms
Remote clock offset: -2.181 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.916 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.916 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

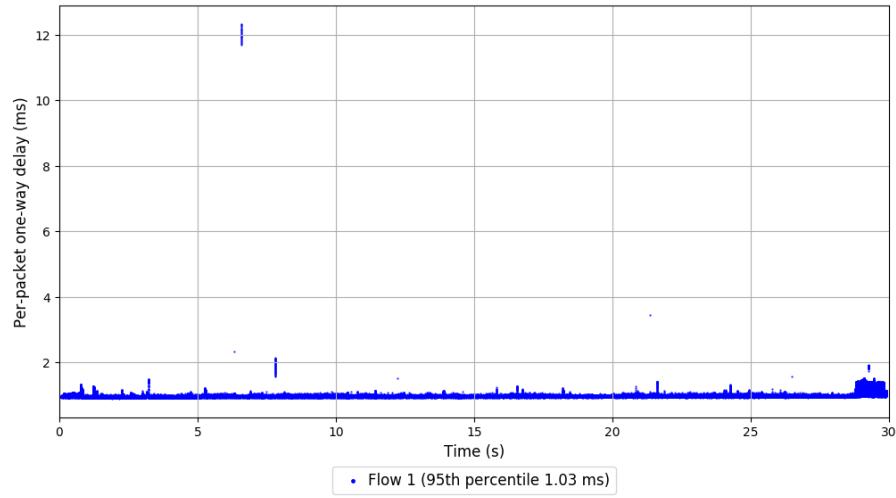
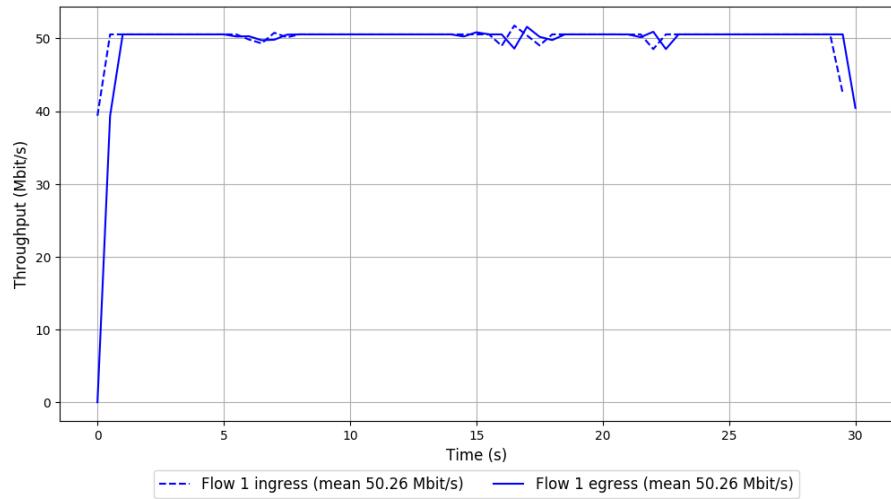


Run 1: Statistics of Sprout

```
Start at: 2019-06-28 06:17:04
End at: 2019-06-28 06:17:35
Local clock offset: 2.806 ms
Remote clock offset: -2.558 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 1.033 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 1.033 ms
Loss rate: 0.07%
```

Run 1: Report of Sprout — Data Link

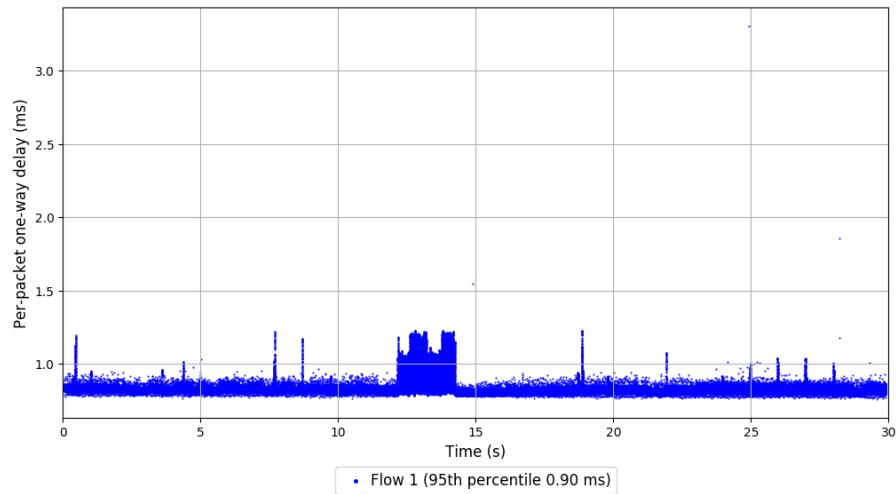
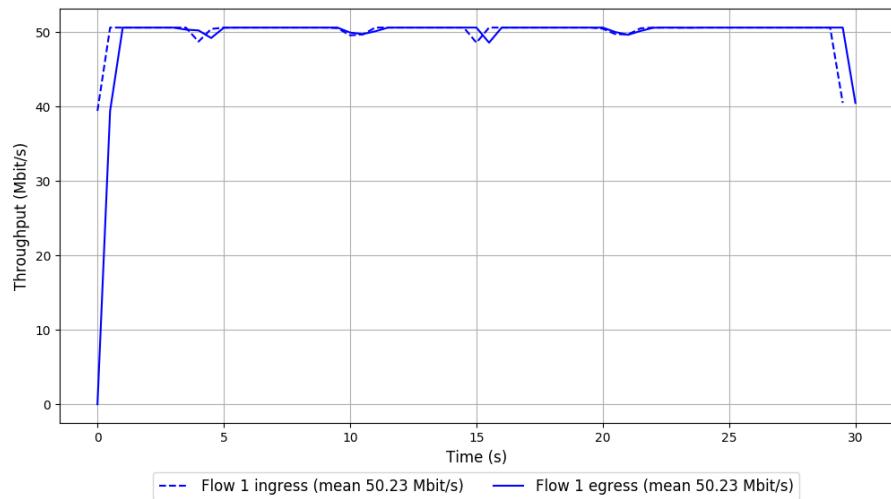


Run 2: Statistics of Sprout

```
Start at: 2019-06-28 06:48:21
End at: 2019-06-28 06:48:51
Local clock offset: 2.745 ms
Remote clock offset: 0.198 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 0.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 0.904 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

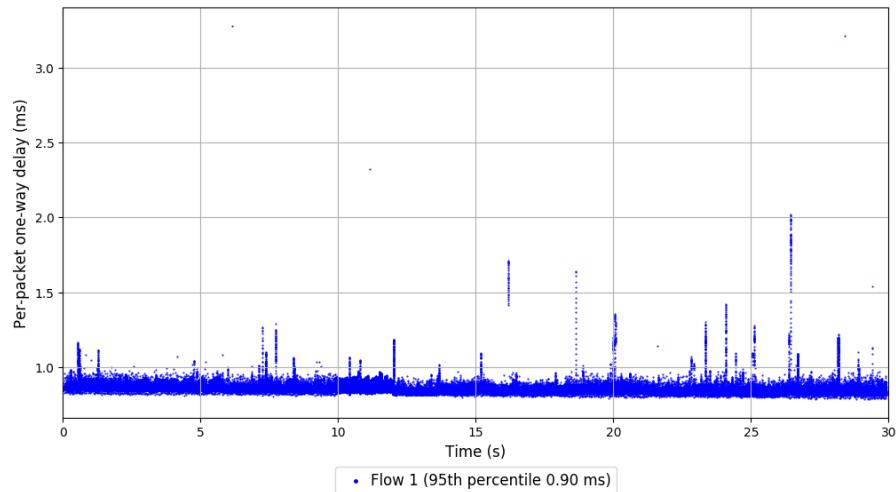
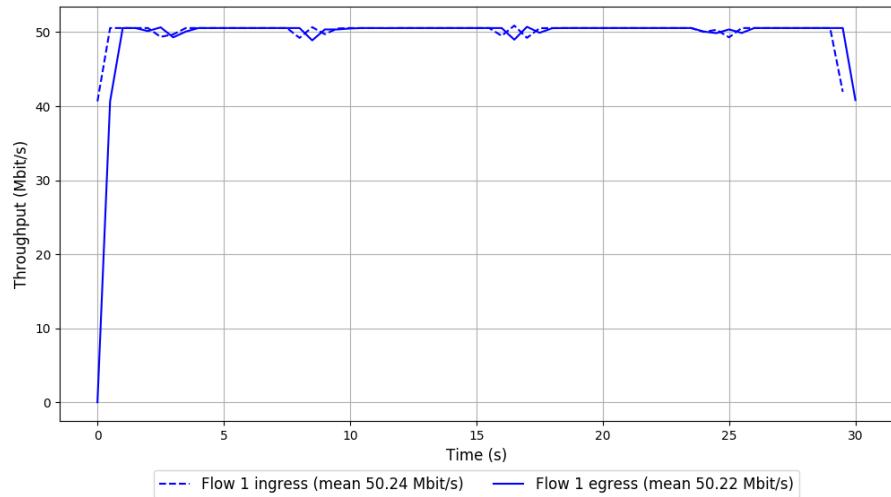


Run 3: Statistics of Sprout

```
Start at: 2019-06-28 07:19:23
End at: 2019-06-28 07:19:53
Local clock offset: 3.821 ms
Remote clock offset: -1.633 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 0.904 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 0.904 ms
Loss rate: 0.04%
```

Run 3: Report of Sprout — Data Link

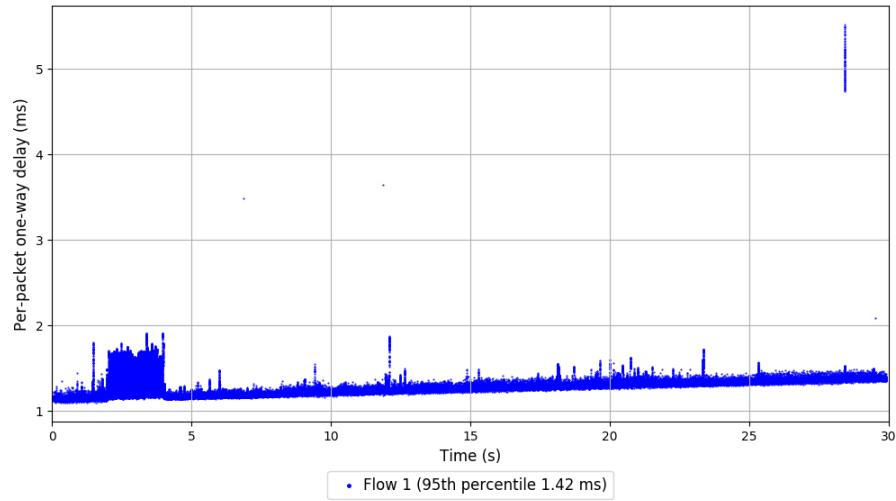
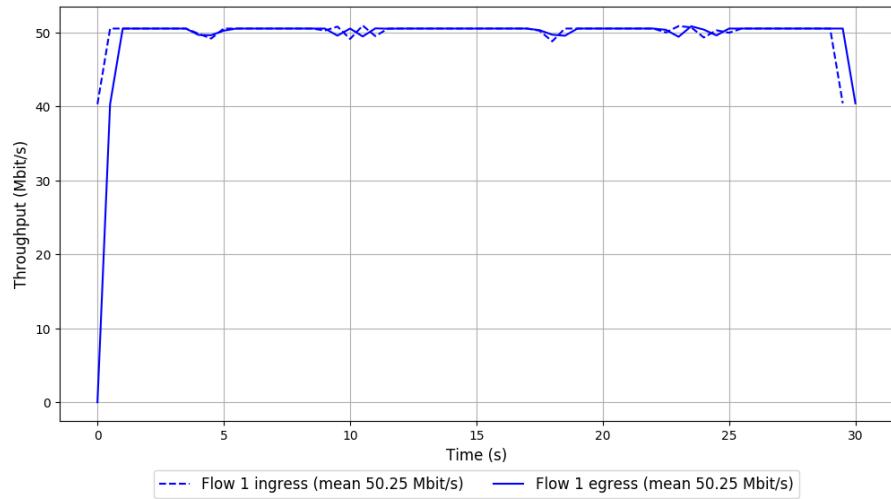


Run 4: Statistics of Sprout

```
Start at: 2019-06-28 07:50:01
End at: 2019-06-28 07:50:31
Local clock offset: 2.134 ms
Remote clock offset: -1.348 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 1.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 1.415 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

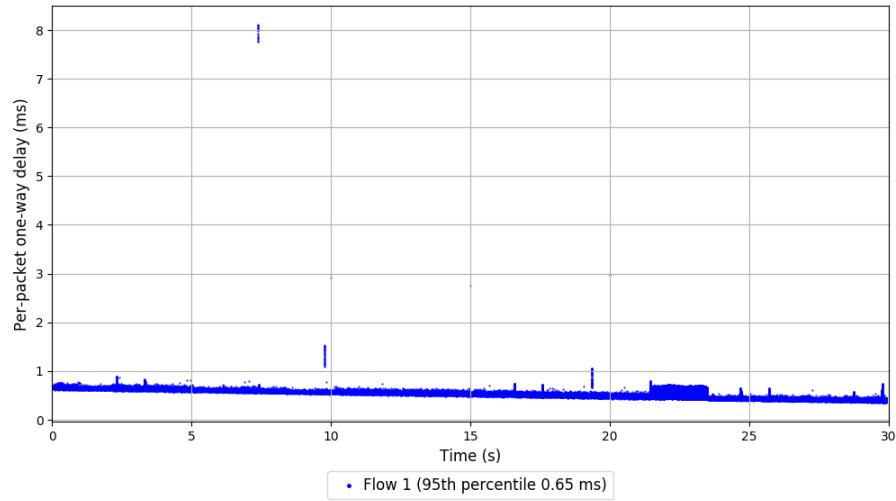
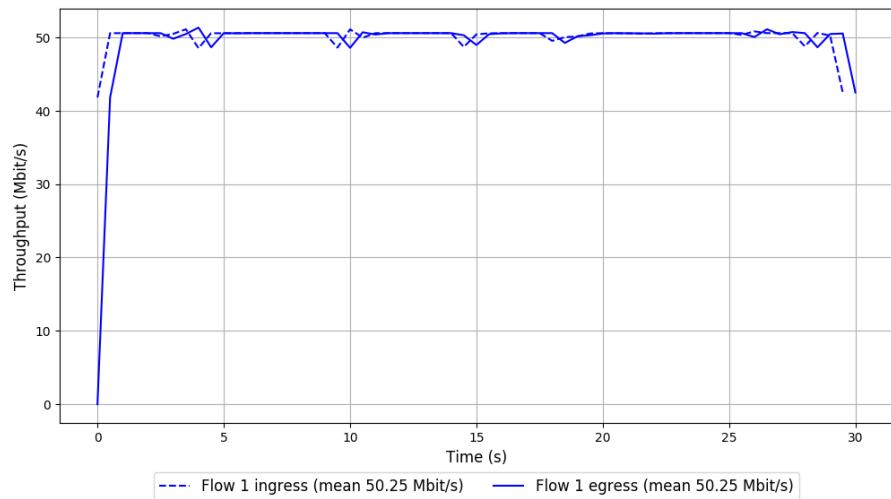


Run 5: Statistics of Sprout

```
Start at: 2019-06-28 08:21:12
End at: 2019-06-28 08:21:42
Local clock offset: -0.45 ms
Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 0.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 0.650 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

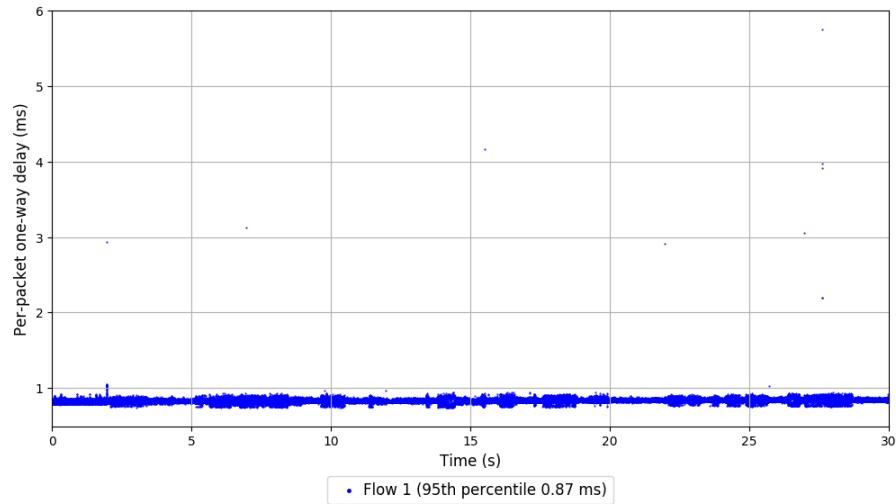
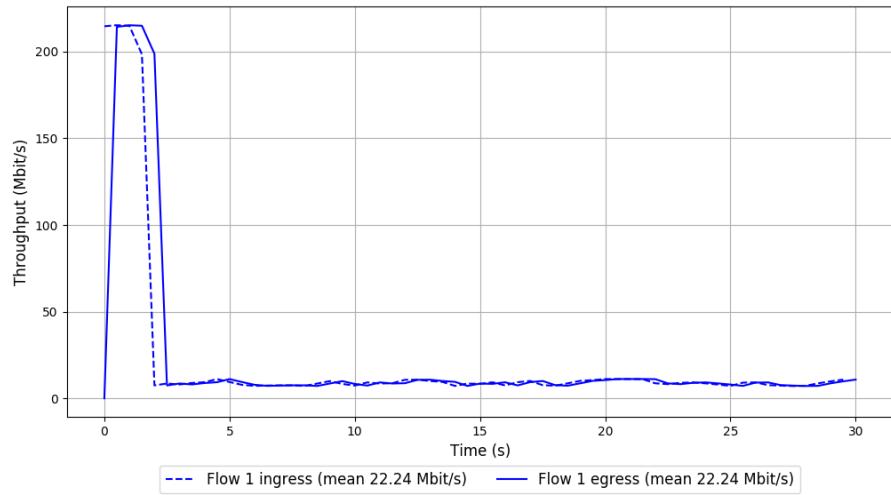


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-06-28 06:19:43
End at: 2019-06-28 06:20:13
Local clock offset: 2.813 ms
Remote clock offset: -2.341 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.24 Mbit/s
95th percentile per-packet one-way delay: 0.866 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.24 Mbit/s
95th percentile per-packet one-way delay: 0.866 ms
Loss rate: 0.00%
```

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

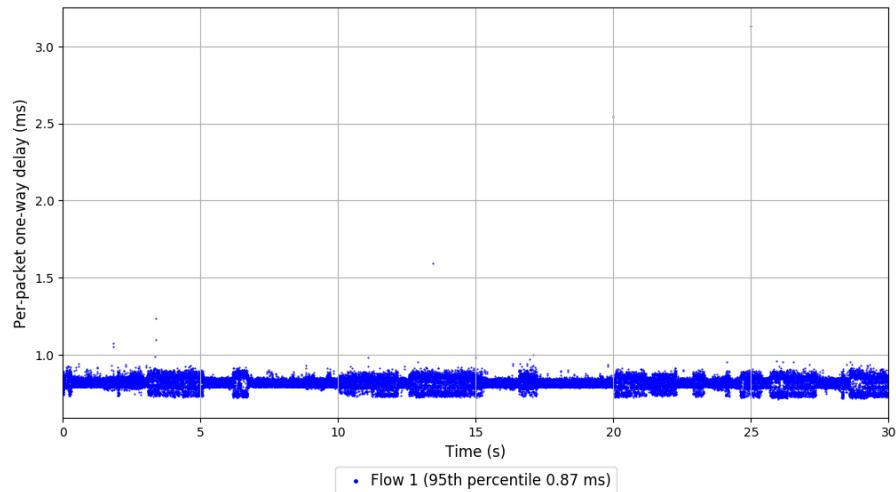
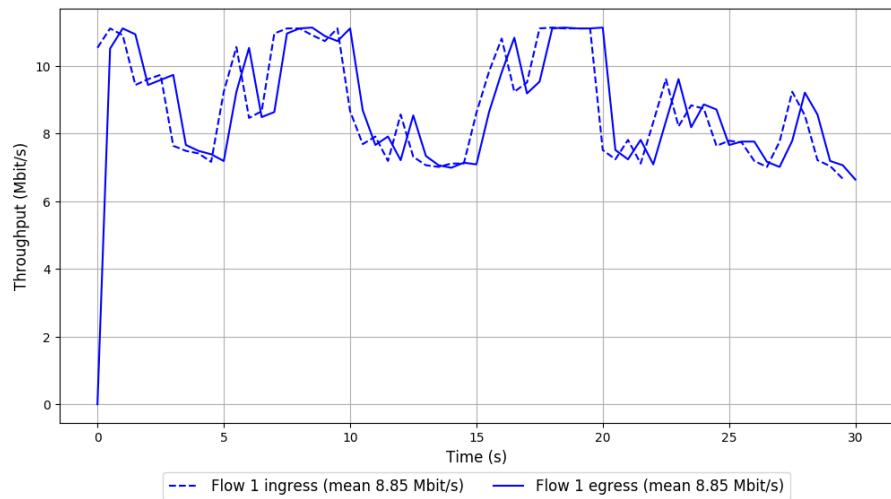


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-06-28 06:50:57
End at: 2019-06-28 06:51:27
Local clock offset: 2.987 ms
Remote clock offset: 0.403 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.85 Mbit/s
95th percentile per-packet one-way delay: 0.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.85 Mbit/s
95th percentile per-packet one-way delay: 0.869 ms
Loss rate: 0.00%
```

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

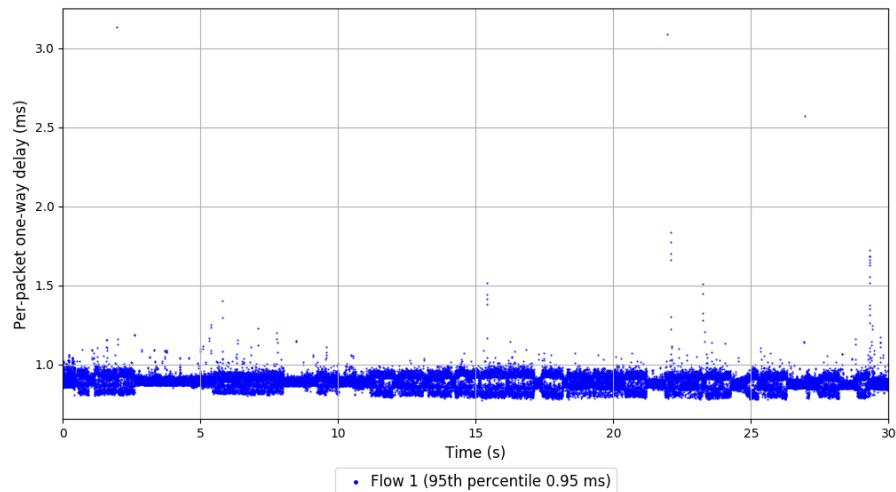
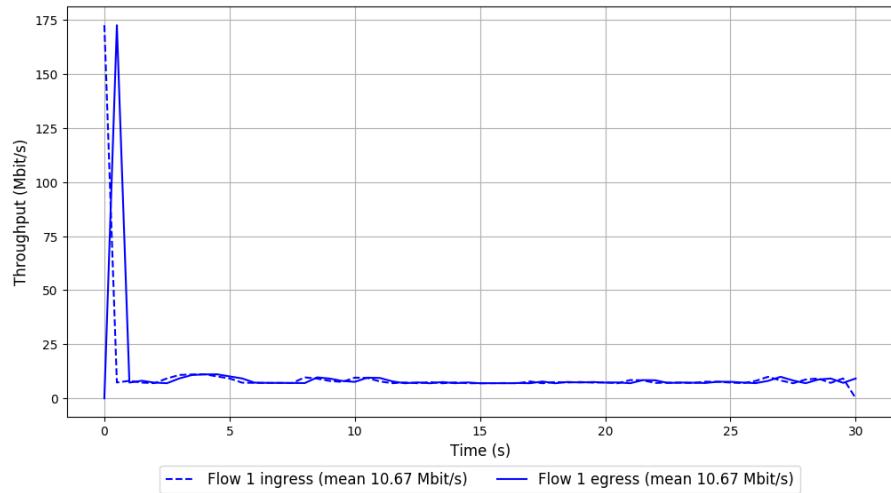


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-06-28 07:22:01
End at: 2019-06-28 07:22:31
Local clock offset: 3.538 ms
Remote clock offset: -2.106 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.67 Mbit/s
95th percentile per-packet one-way delay: 0.950 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 10.67 Mbit/s
95th percentile per-packet one-way delay: 0.950 ms
Loss rate: 0.01%
```

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

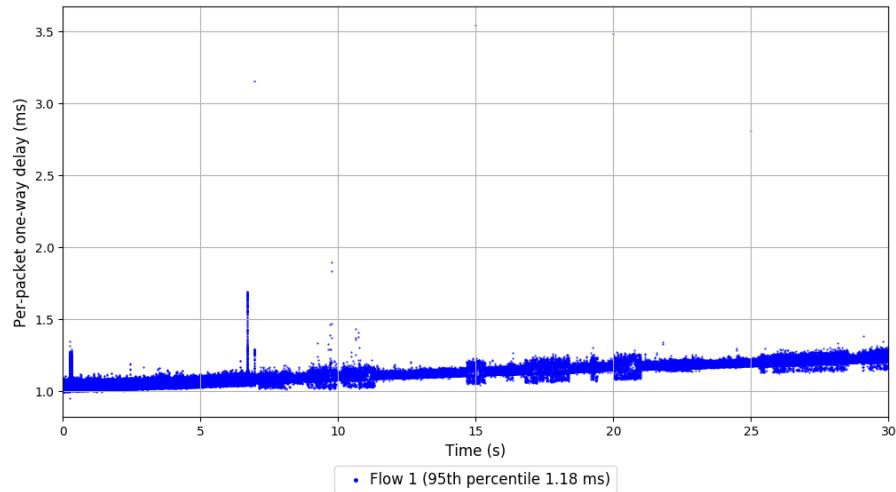
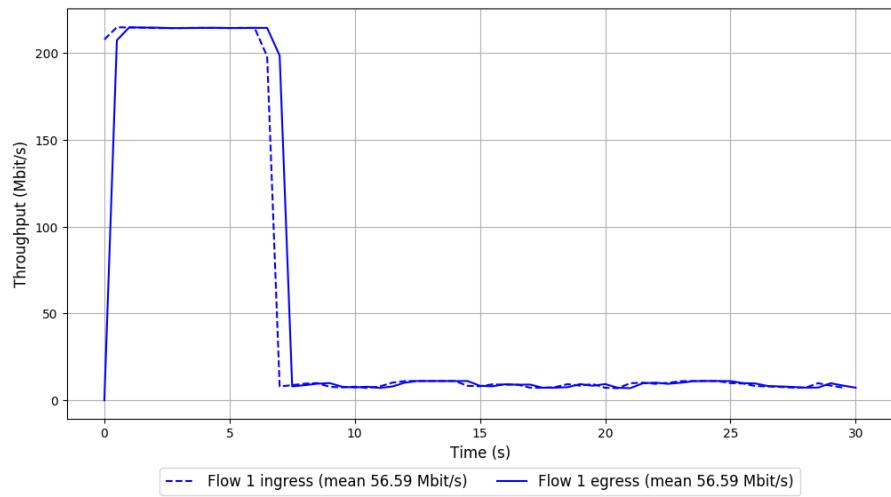


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-06-28 07:52:40
End at: 2019-06-28 07:53:10
Local clock offset: 1.508 ms
Remote clock offset: -0.702 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.59 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.59 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.00%
```

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

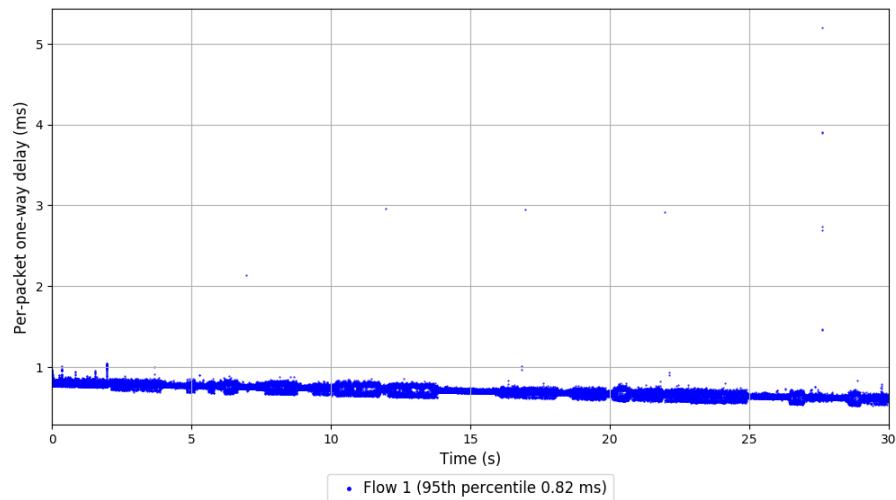
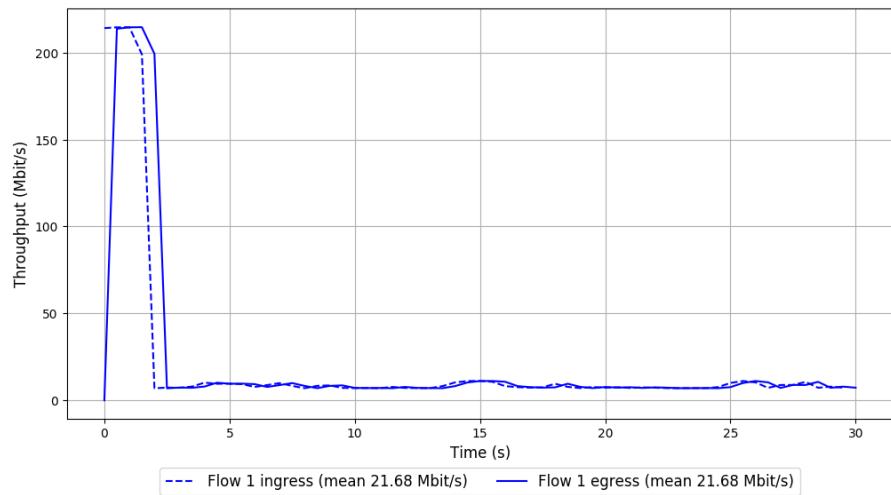


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-06-28 08:23:49
End at: 2019-06-28 08:24:19
Local clock offset: 0.003 ms
Remote clock offset: -0.891 ms

# Below is generated by plot.py at 2019-06-28 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.68 Mbit/s
95th percentile per-packet one-way delay: 0.818 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.68 Mbit/s
95th percentile per-packet one-way delay: 0.818 ms
Loss rate: 0.00%
```

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

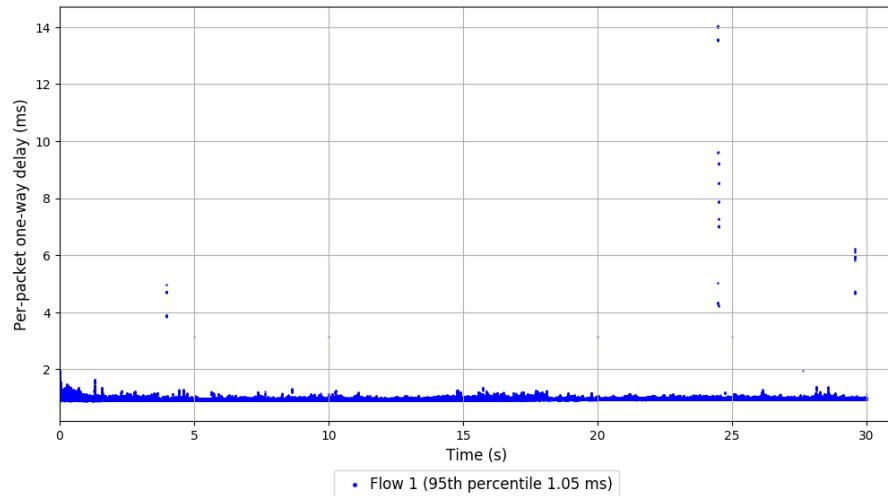
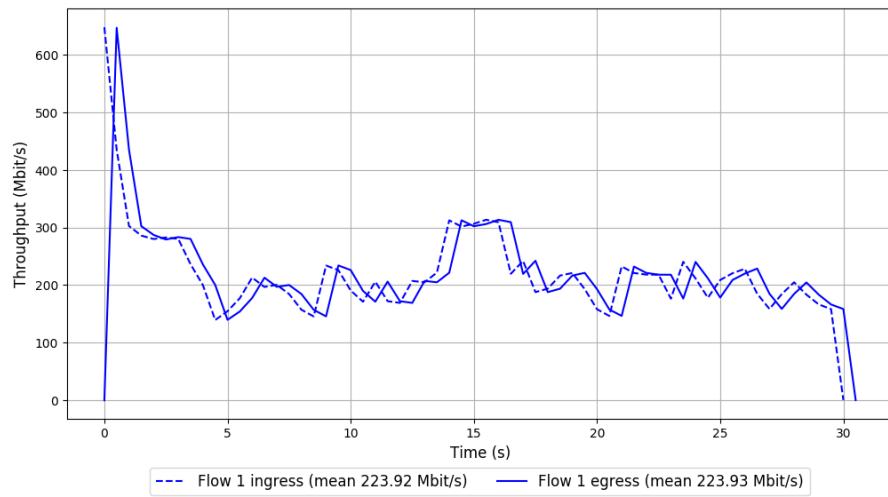


Run 1: Statistics of TCP Vegas

```
Start at: 2019-06-28 06:10:19
End at: 2019-06-28 06:10:50
Local clock offset: 2.873 ms
Remote clock offset: -2.962 ms

# Below is generated by plot.py at 2019-06-28 09:34:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.93 Mbit/s
95th percentile per-packet one-way delay: 1.053 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.93 Mbit/s
95th percentile per-packet one-way delay: 1.053 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

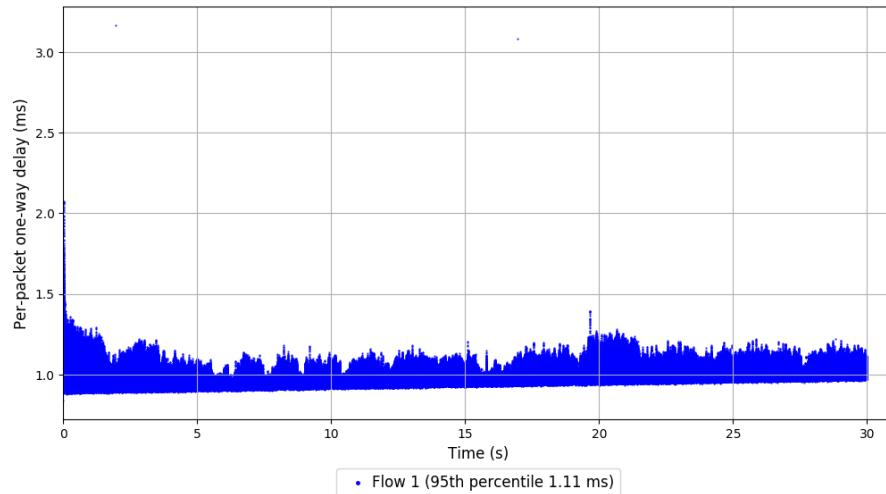
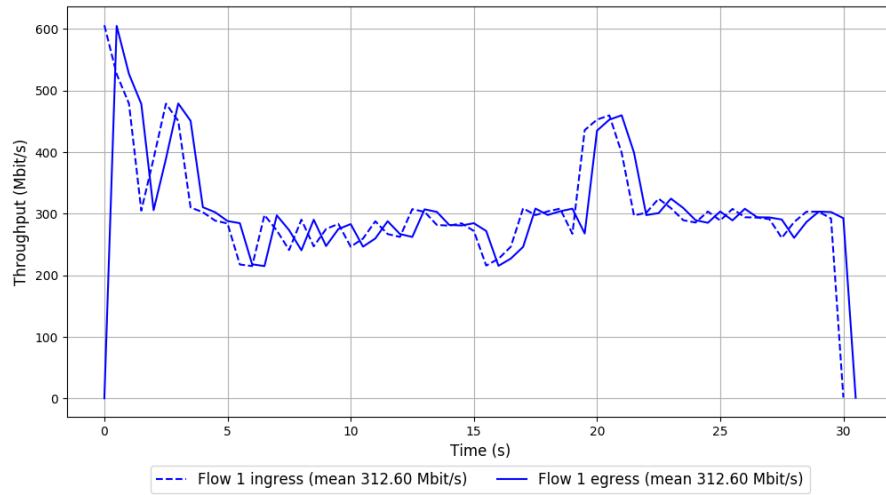


Run 2: Statistics of TCP Vegas

```
Start at: 2019-06-28 06:41:14
End at: 2019-06-28 06:41:44
Local clock offset: 2.695 ms
Remote clock offset: -0.734 ms

# Below is generated by plot.py at 2019-06-28 09:35:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.60 Mbit/s
95th percentile per-packet one-way delay: 1.113 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 312.60 Mbit/s
95th percentile per-packet one-way delay: 1.113 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

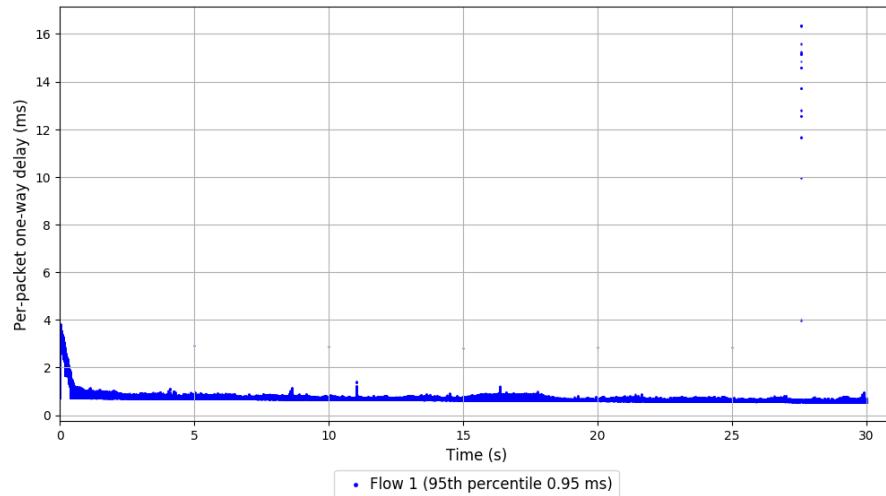
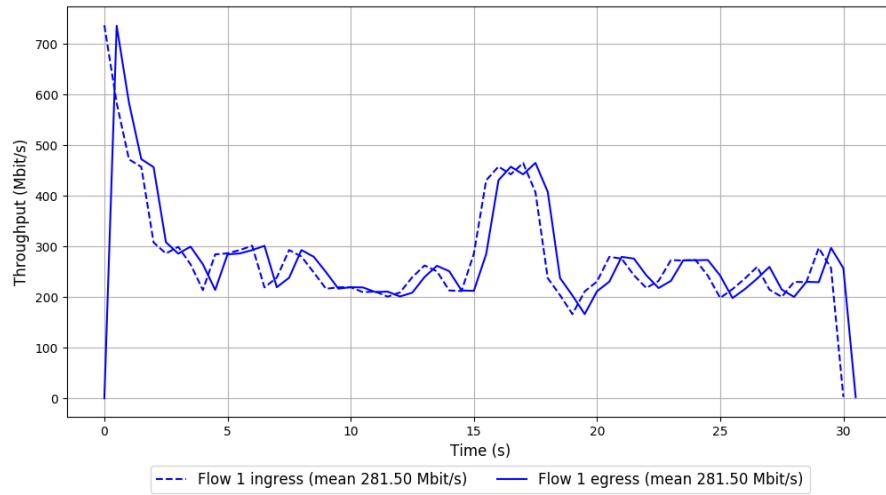


Run 3: Statistics of TCP Vegas

```
Start at: 2019-06-28 07:12:18
End at: 2019-06-28 07:12:48
Local clock offset: 3.862 ms
Remote clock offset: 0.131 ms

# Below is generated by plot.py at 2019-06-28 09:35:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 281.50 Mbit/s
95th percentile per-packet one-way delay: 0.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 281.50 Mbit/s
95th percentile per-packet one-way delay: 0.952 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

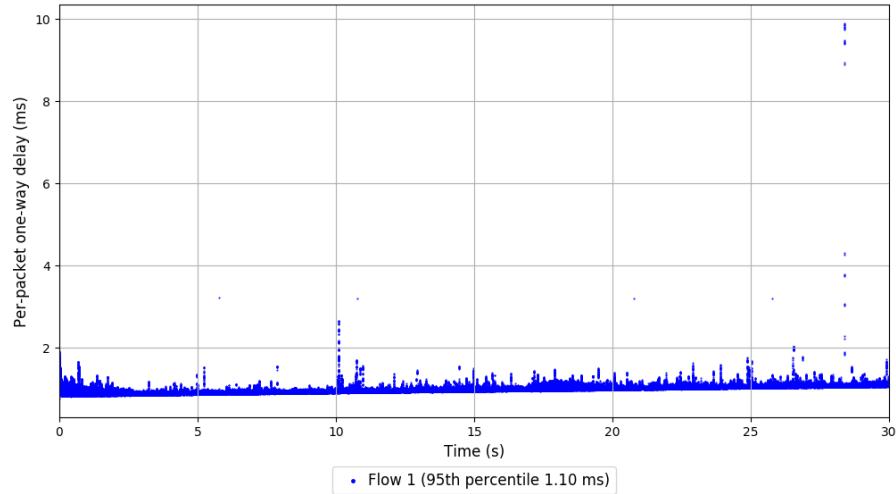
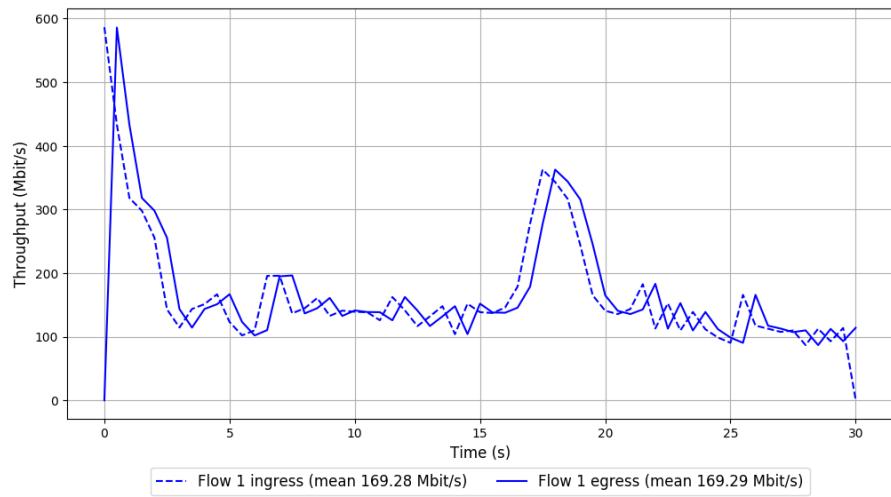


Run 4: Statistics of TCP Vegas

```
Start at: 2019-06-28 07:43:16
End at: 2019-06-28 07:43:46
Local clock offset: 2.76 ms
Remote clock offset: -3.471 ms

# Below is generated by plot.py at 2019-06-28 09:35:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.29 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.29 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

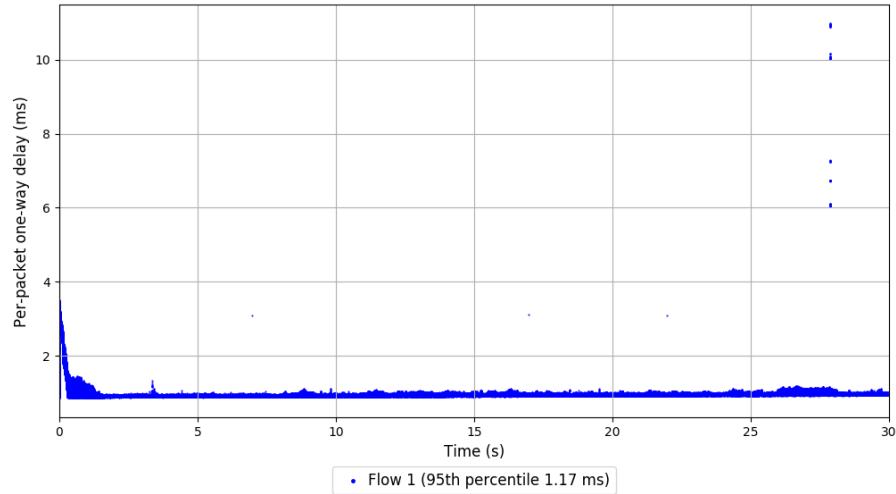
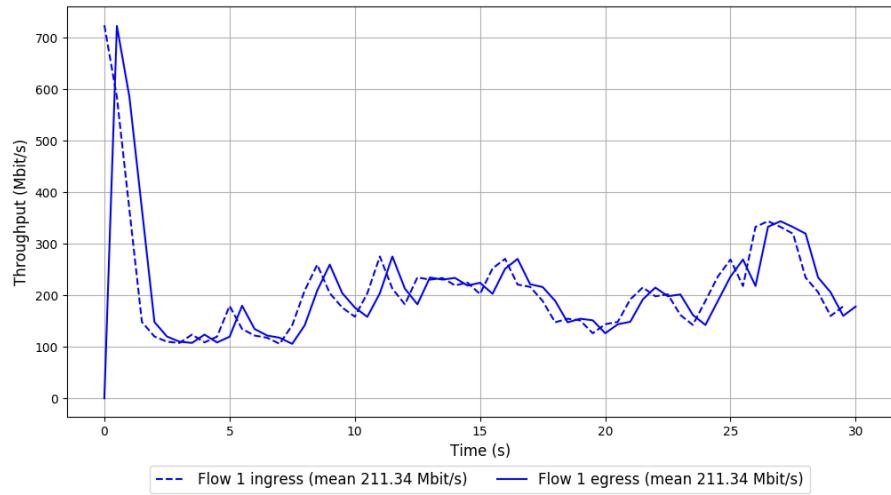


Run 5: Statistics of TCP Vegas

```
Start at: 2019-06-28 08:14:07
End at: 2019-06-28 08:14:37
Local clock offset: -0.895 ms
Remote clock offset: 1.488 ms

# Below is generated by plot.py at 2019-06-28 09:35:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.34 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.34 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

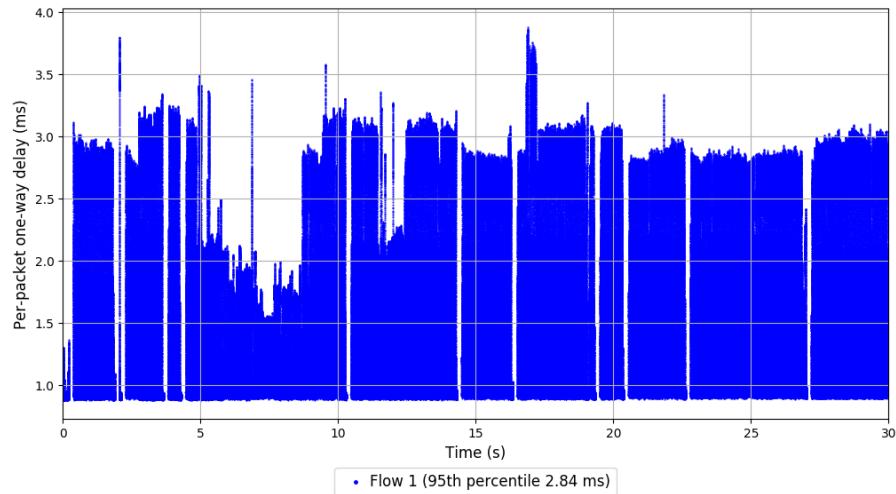
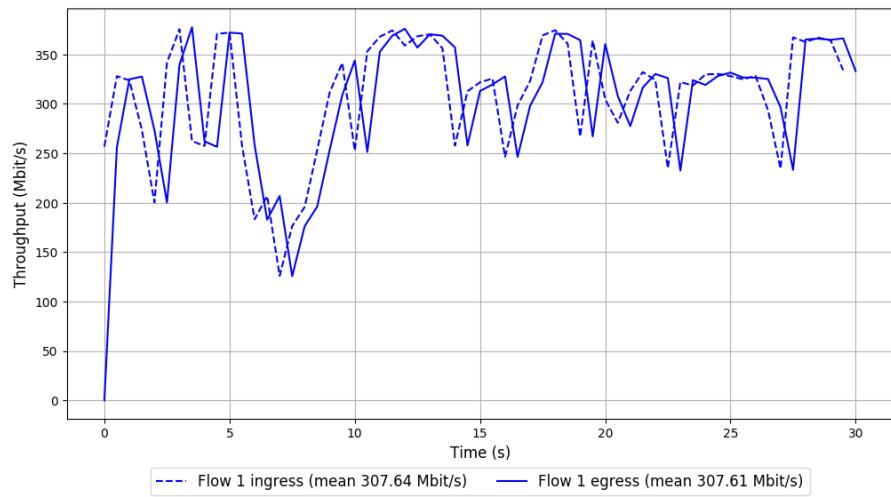


```
Run 1: Statistics of Verus
```

```
Start at: 2019-06-28 06:27:58
End at: 2019-06-28 06:28:28
Local clock offset: 2.767 ms
Remote clock offset: -2.271 ms

# Below is generated by plot.py at 2019-06-28 09:36:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 307.61 Mbit/s
95th percentile per-packet one-way delay: 2.838 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 307.61 Mbit/s
95th percentile per-packet one-way delay: 2.838 ms
Loss rate: 0.01%
```

Run 1: Report of Verus — Data Link

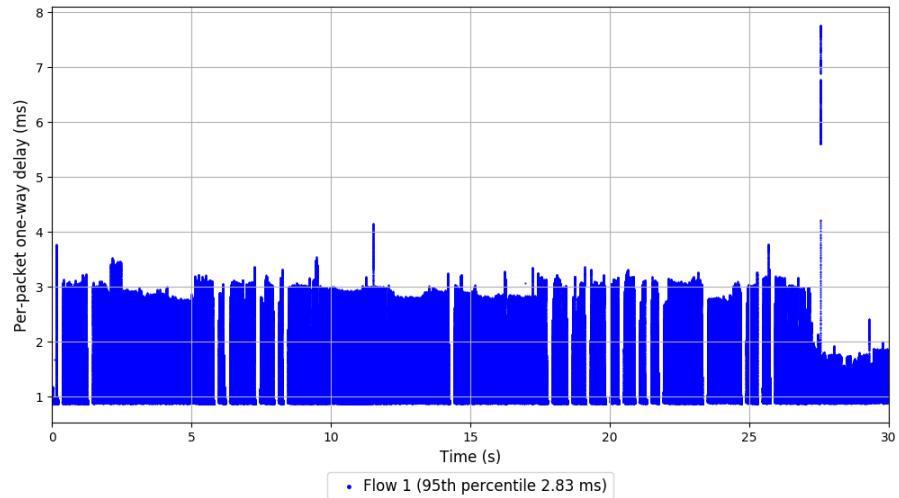
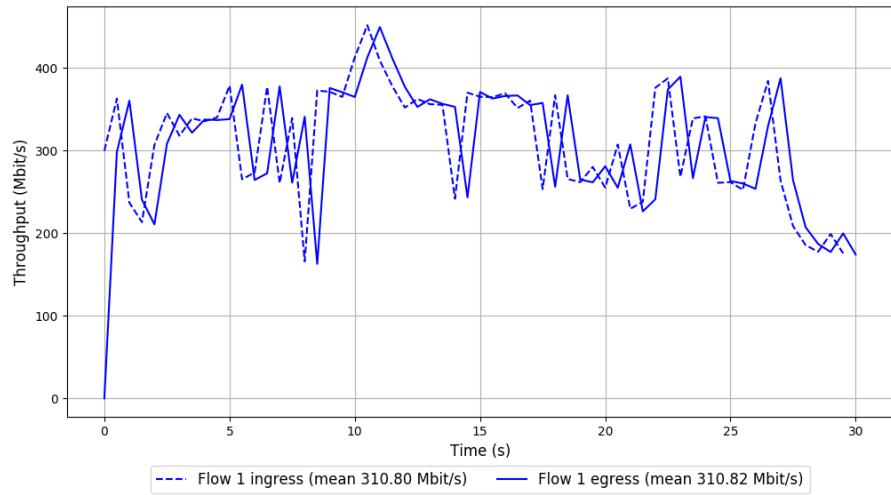


Run 2: Statistics of Verus

```
Start at: 2019-06-28 06:59:06
End at: 2019-06-28 06:59:36
Local clock offset: 3.55 ms
Remote clock offset: 0.874 ms

# Below is generated by plot.py at 2019-06-28 09:36:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.82 Mbit/s
95th percentile per-packet one-way delay: 2.826 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 310.82 Mbit/s
95th percentile per-packet one-way delay: 2.826 ms
Loss rate: 0.01%
```

Run 2: Report of Verus — Data Link

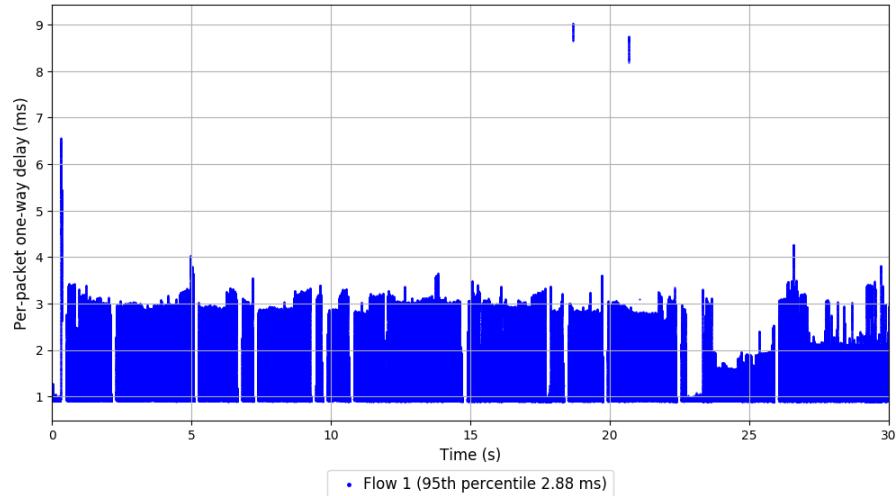
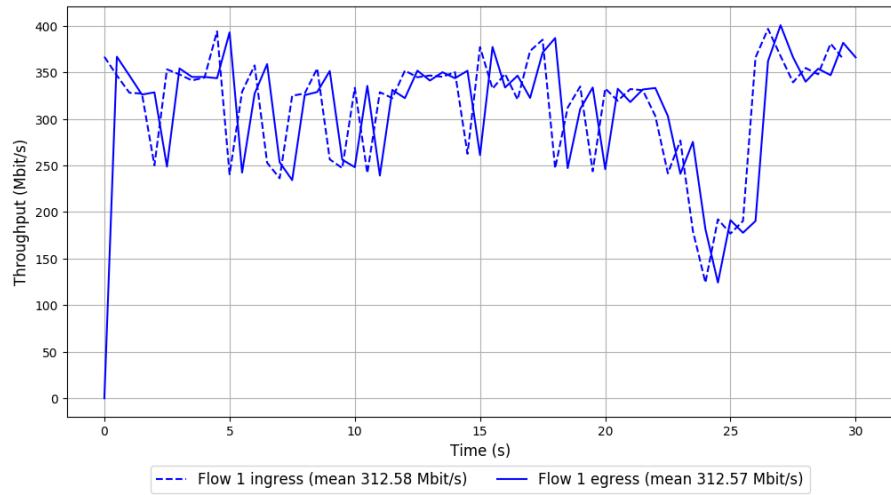


Run 3: Statistics of Verus

```
Start at: 2019-06-28 07:30:10
End at: 2019-06-28 07:30:40
Local clock offset: 3.065 ms
Remote clock offset: -2.949 ms

# Below is generated by plot.py at 2019-06-28 09:37:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.57 Mbit/s
95th percentile per-packet one-way delay: 2.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 312.57 Mbit/s
95th percentile per-packet one-way delay: 2.881 ms
Loss rate: 0.00%
```

Run 3: Report of Verus — Data Link

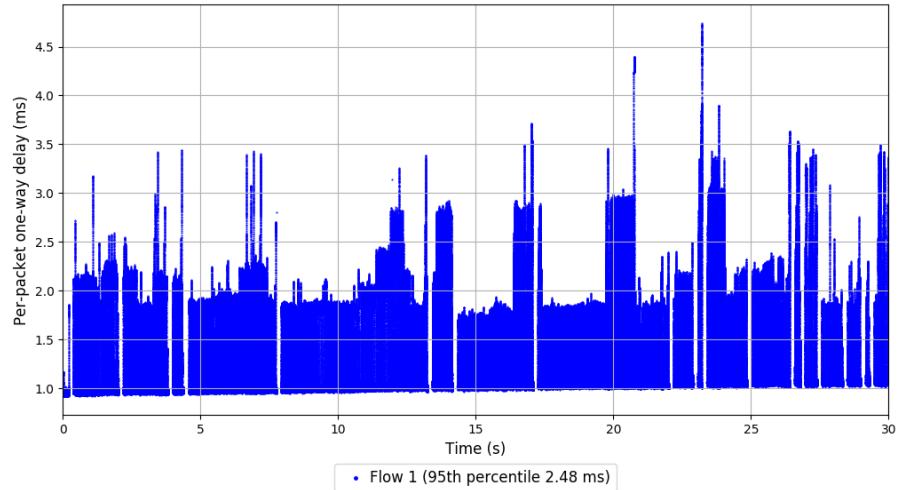
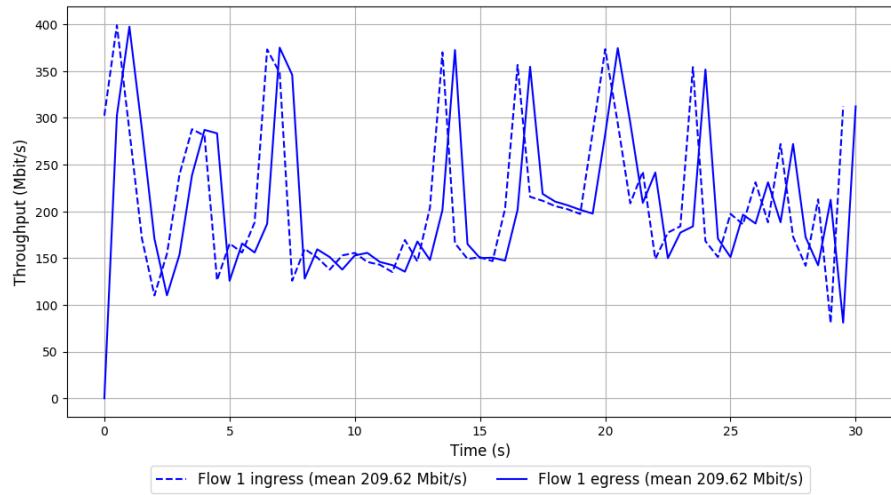


Run 4: Statistics of Verus

```
Start at: 2019-06-28 08:00:54
End at: 2019-06-28 08:01:24
Local clock offset: 0.155 ms
Remote clock offset: 0.415 ms

# Below is generated by plot.py at 2019-06-28 09:37:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.62 Mbit/s
95th percentile per-packet one-way delay: 2.481 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.62 Mbit/s
95th percentile per-packet one-way delay: 2.481 ms
Loss rate: 0.00%
```

Run 4: Report of Verus — Data Link

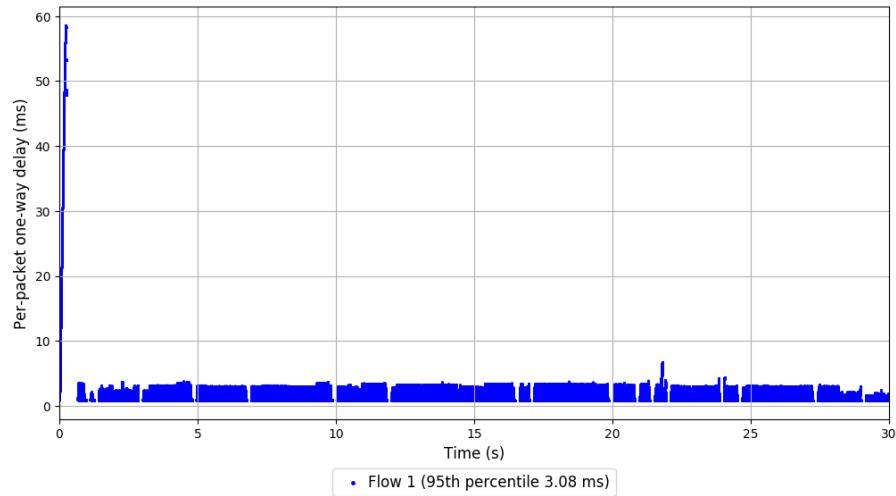
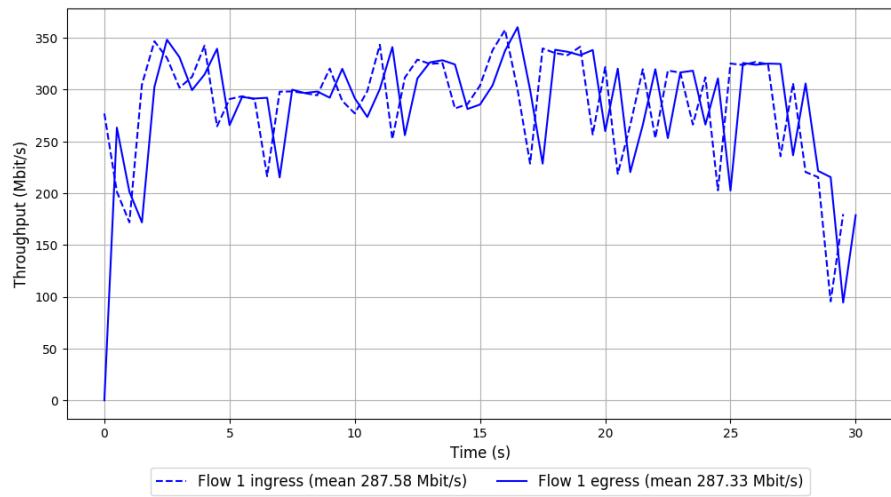


Run 5: Statistics of Verus

```
Start at: 2019-06-28 08:32:05
End at: 2019-06-28 08:32:35
Local clock offset: 0.735 ms
Remote clock offset: -2.432 ms

# Below is generated by plot.py at 2019-06-28 09:37:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 287.33 Mbit/s
95th percentile per-packet one-way delay: 3.078 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 287.33 Mbit/s
95th percentile per-packet one-way delay: 3.078 ms
Loss rate: 0.09%
```

Run 5: Report of Verus — Data Link

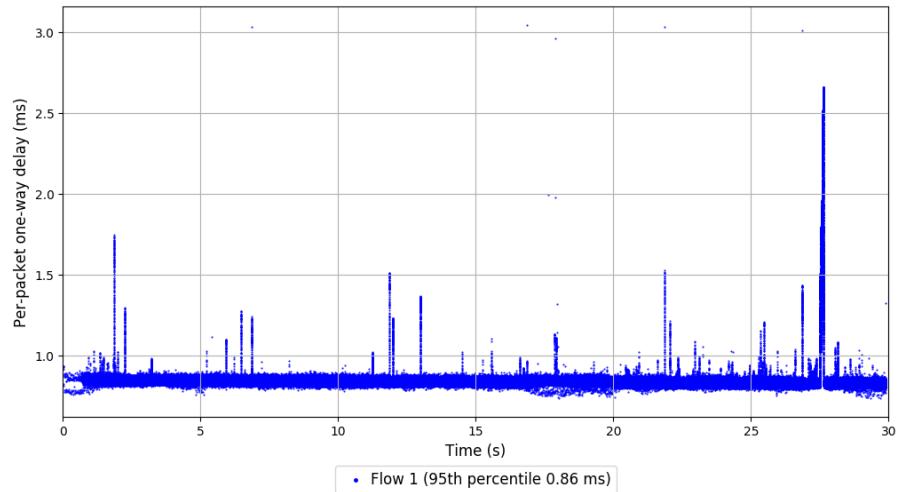
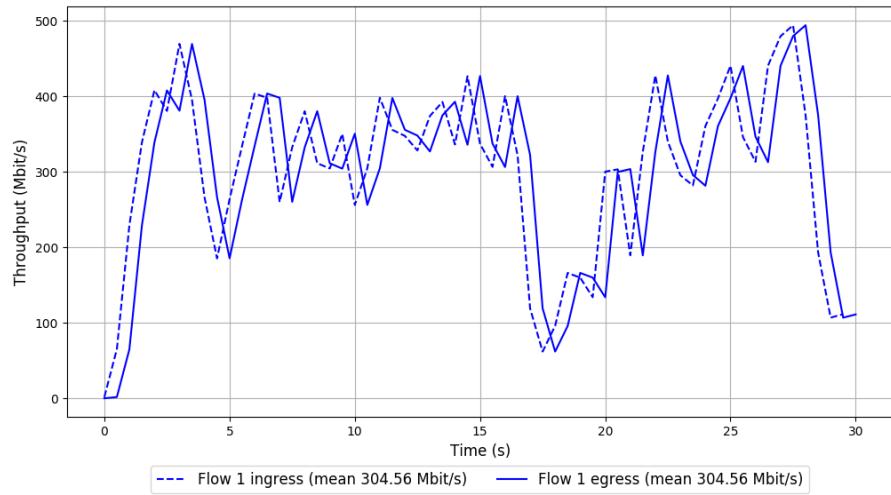


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-06-28 05:59:46
End at: 2019-06-28 06:00:16
Local clock offset: 2.892 ms
Remote clock offset: -4.428 ms

# Below is generated by plot.py at 2019-06-28 09:38:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.56 Mbit/s
95th percentile per-packet one-way delay: 0.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 304.56 Mbit/s
95th percentile per-packet one-way delay: 0.865 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

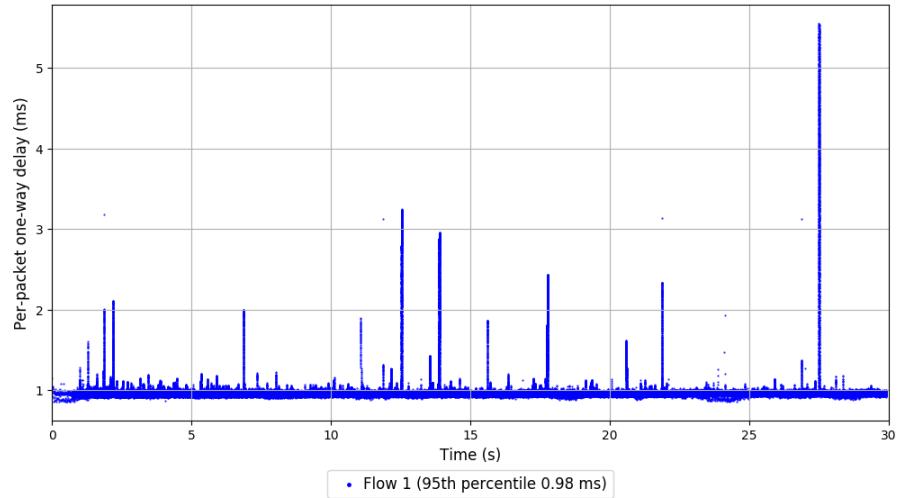
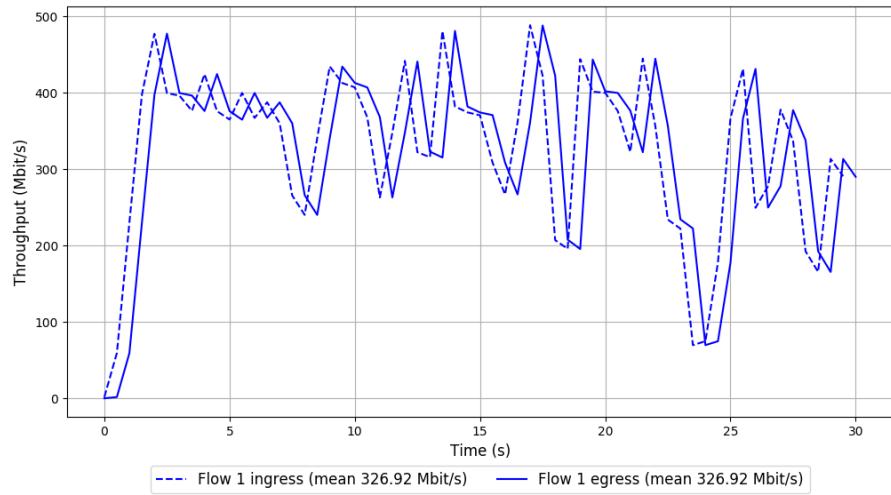


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-06-28 06:30:41
End at: 2019-06-28 06:31:11
Local clock offset: 2.753 ms
Remote clock offset: -2.236 ms

# Below is generated by plot.py at 2019-06-28 09:38:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.92 Mbit/s
95th percentile per-packet one-way delay: 0.979 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 326.92 Mbit/s
95th percentile per-packet one-way delay: 0.979 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Vivace — Data Link

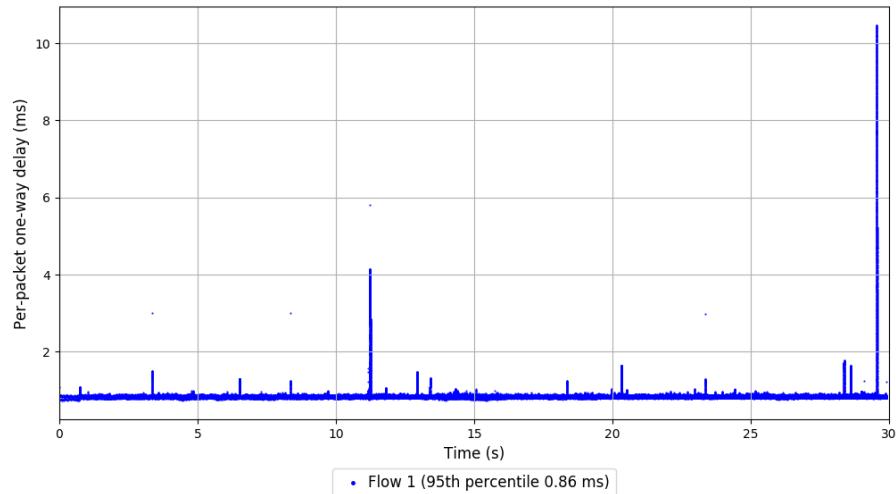
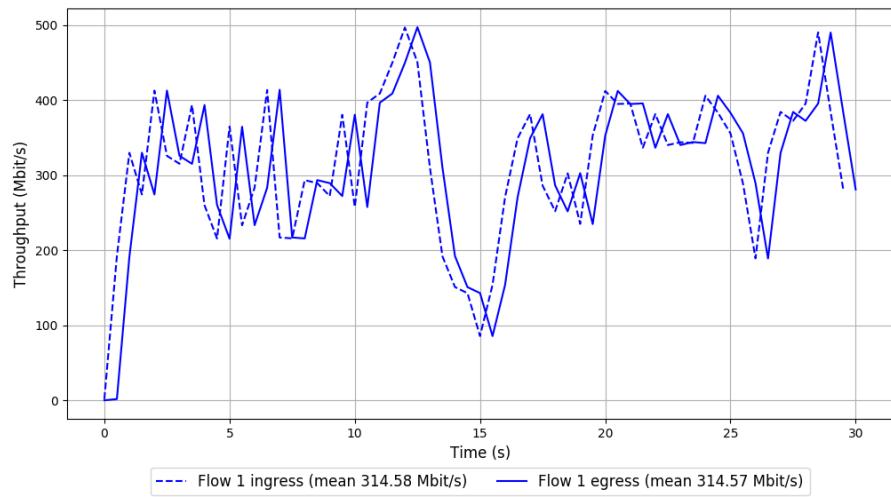


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-06-28 07:01:49
End at: 2019-06-28 07:02:19
Local clock offset: 3.624 ms
Remote clock offset: 1.054 ms

# Below is generated by plot.py at 2019-06-28 09:38:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 314.57 Mbit/s
95th percentile per-packet one-way delay: 0.856 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 314.57 Mbit/s
95th percentile per-packet one-way delay: 0.856 ms
Loss rate: 0.01%
```

Run 3: Report of PCC-Vivace — Data Link

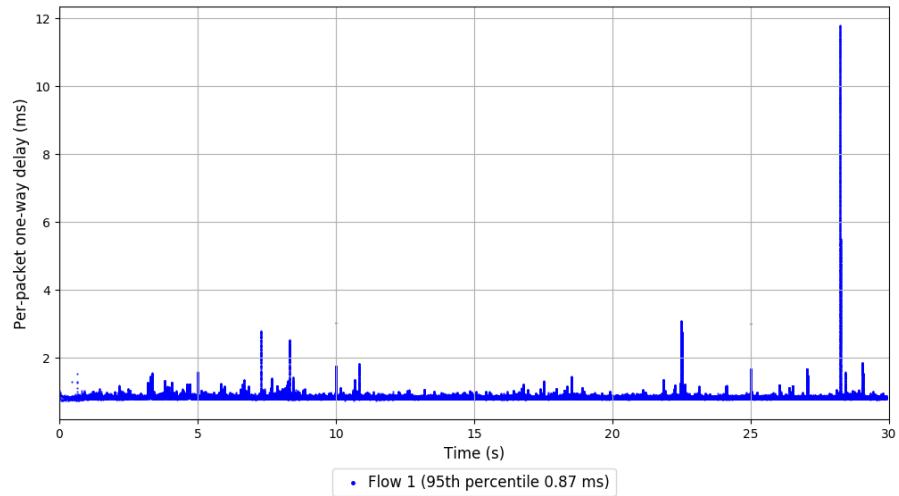
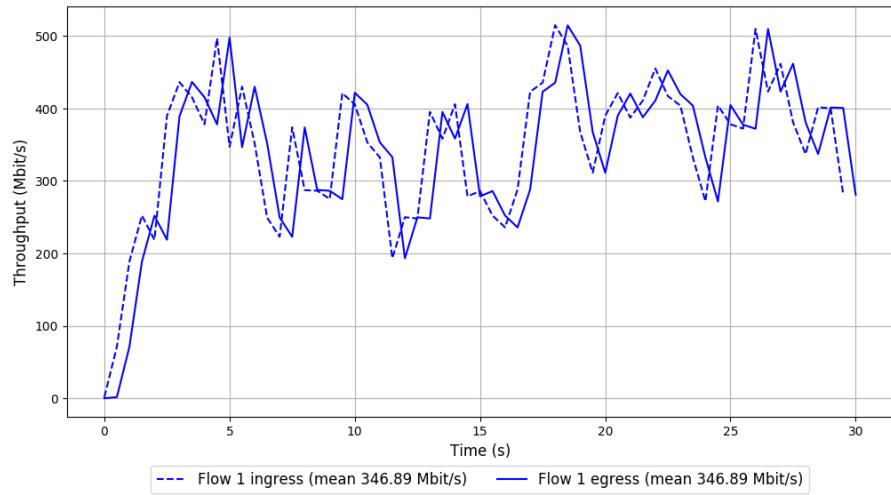


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-06-28 07:32:53
End at: 2019-06-28 07:33:23
Local clock offset: 2.945 ms
Remote clock offset: -3.034 ms

# Below is generated by plot.py at 2019-06-28 09:38:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 346.89 Mbit/s
95th percentile per-packet one-way delay: 0.869 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 346.89 Mbit/s
95th percentile per-packet one-way delay: 0.869 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Vivace — Data Link

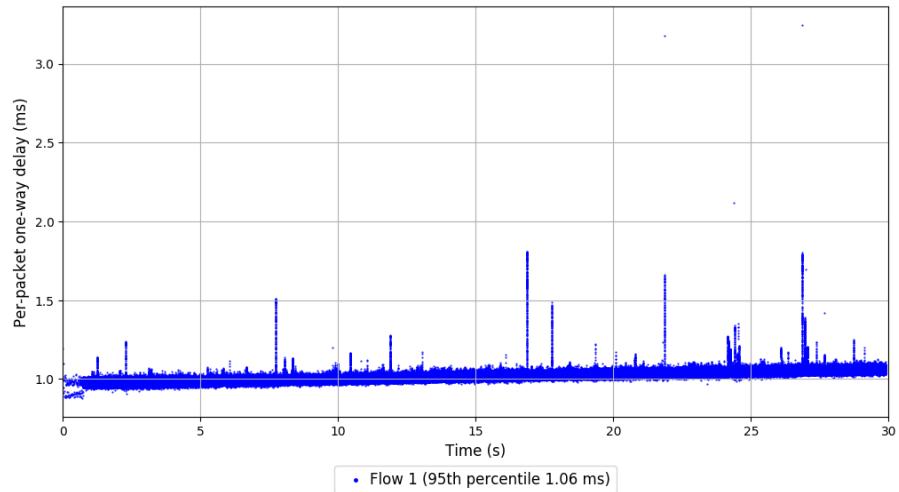
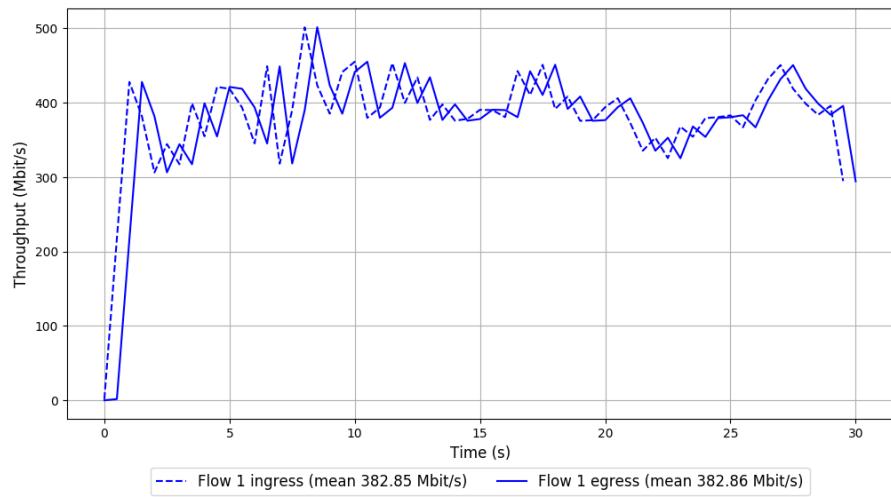


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-06-28 08:03:33
End at: 2019-06-28 08:04:03
Local clock offset: -0.095 ms
Remote clock offset: 0.657 ms

# Below is generated by plot.py at 2019-06-28 09:38:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 382.86 Mbit/s
95th percentile per-packet one-way delay: 1.062 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 382.86 Mbit/s
95th percentile per-packet one-way delay: 1.062 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

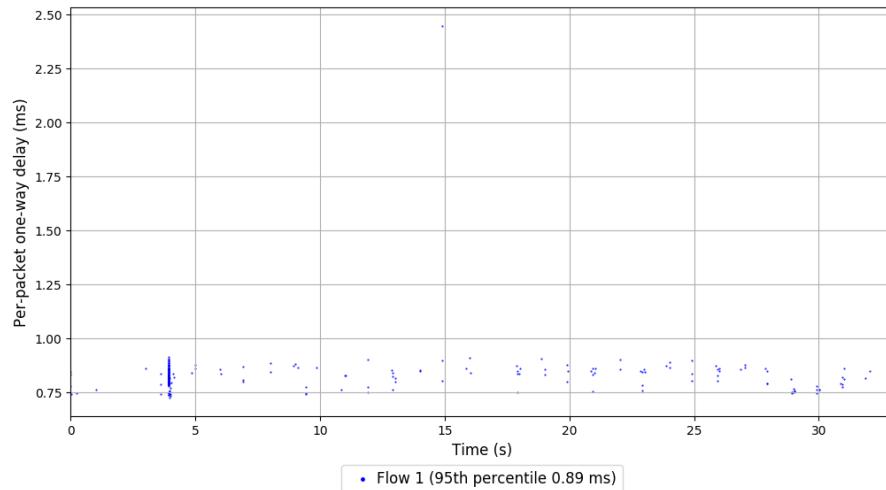
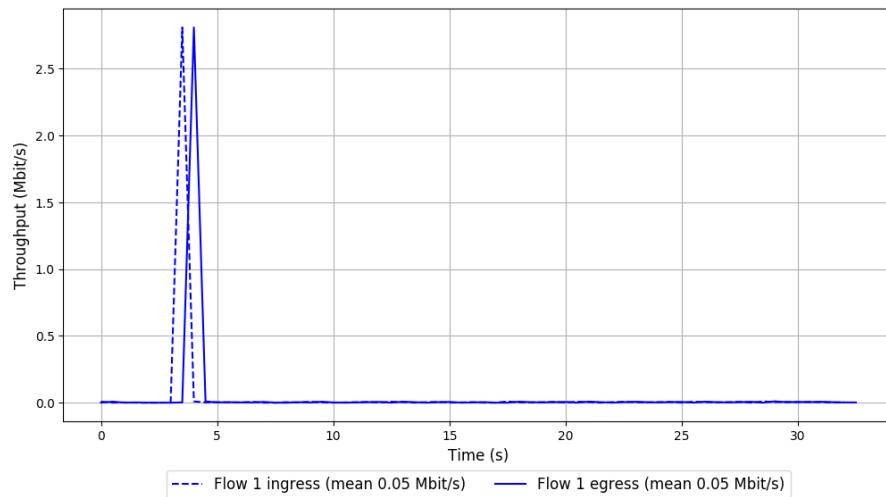


```
Run 1: Statistics of WebRTC media

Start at: 2019-06-28 06:14:37
End at: 2019-06-28 06:15:07
Local clock offset: 2.85 ms
Remote clock offset: -2.523 ms

# Below is generated by plot.py at 2019-06-28 09:38:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.893 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.893 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

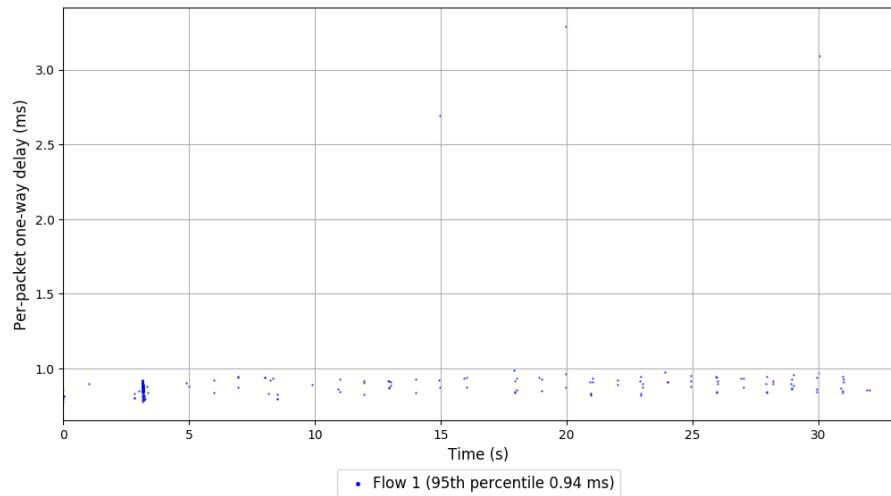
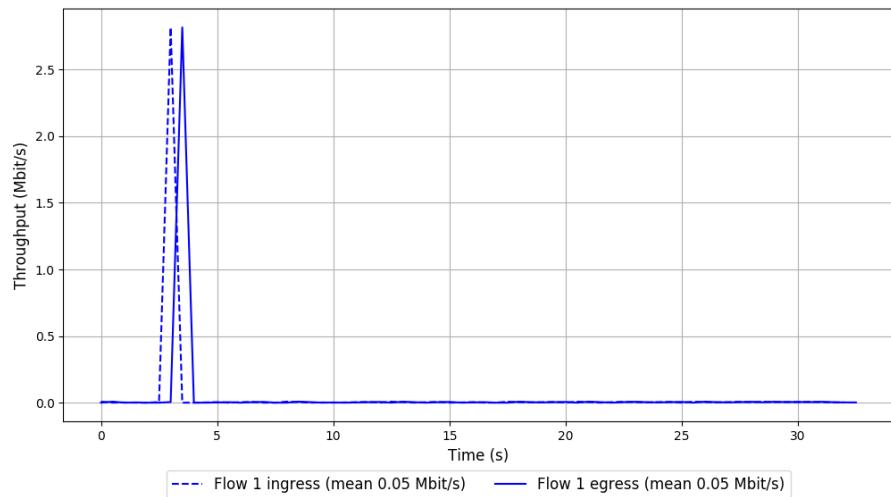


Run 2: Statistics of WebRTC media

```
Start at: 2019-06-28 06:45:35
End at: 2019-06-28 06:46:05
Local clock offset: 2.696 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-06-28 09:38:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.944 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

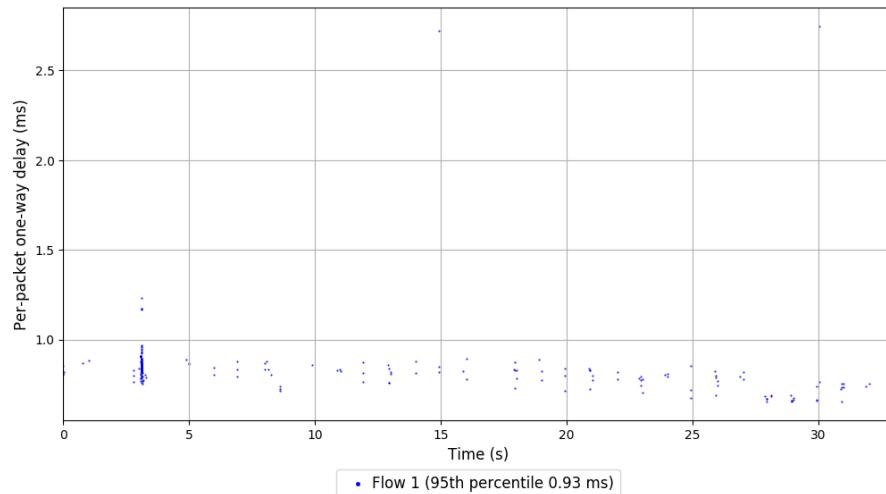
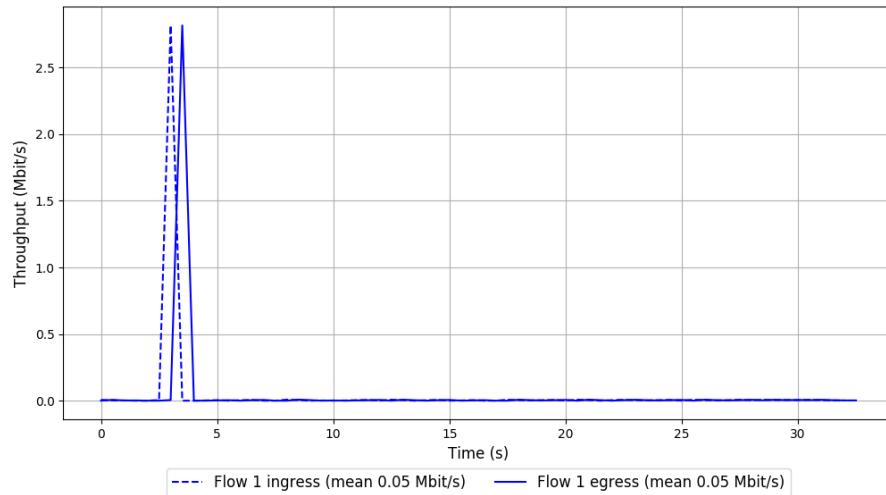


```
Run 3: Statistics of WebRTC media

Start at: 2019-06-28 07:16:39
End at: 2019-06-28 07:17:09
Local clock offset: 3.92 ms
Remote clock offset: -1.177 ms

# Below is generated by plot.py at 2019-06-28 09:38:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.928 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.928 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

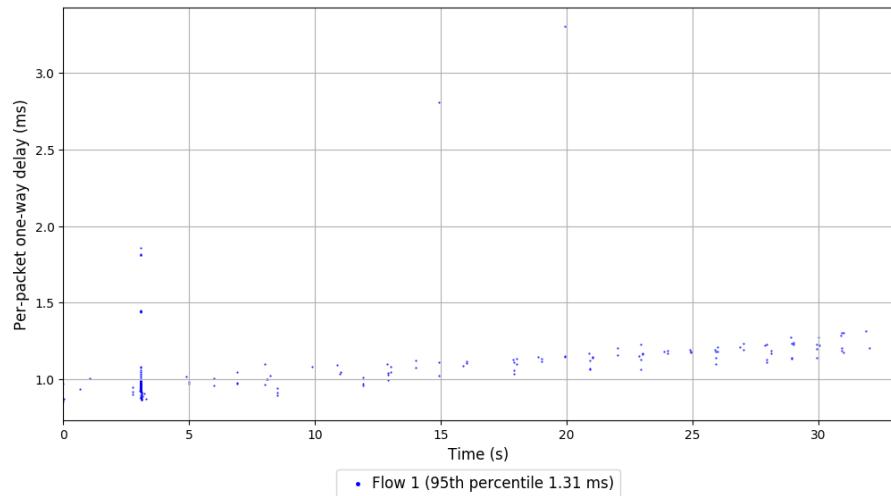
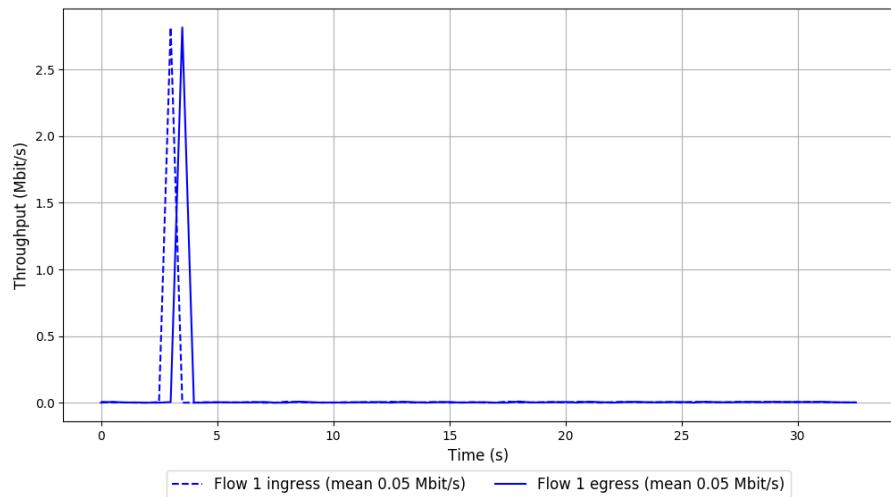


Run 4: Statistics of WebRTC media

```
Start at: 2019-06-28 07:47:34
End at: 2019-06-28 07:48:04
Local clock offset: 2.768 ms
Remote clock offset: -1.94 ms

# Below is generated by plot.py at 2019-06-28 09:38:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.313 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.313 ms
Loss rate: 0.05%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-06-28 08:18:25
End at: 2019-06-28 08:18:55
Local clock offset: -1.087 ms
Remote clock offset: 1.34 ms

# Below is generated by plot.py at 2019-06-28 09:38:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.586 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.586 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

