

Pantheon Report

Generated at 2019-03-18 22:17:26 (UTC).
Data path: GCE Iowa on `ens4` (*remote*) → GCE Sydney on `ens4` (*local*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

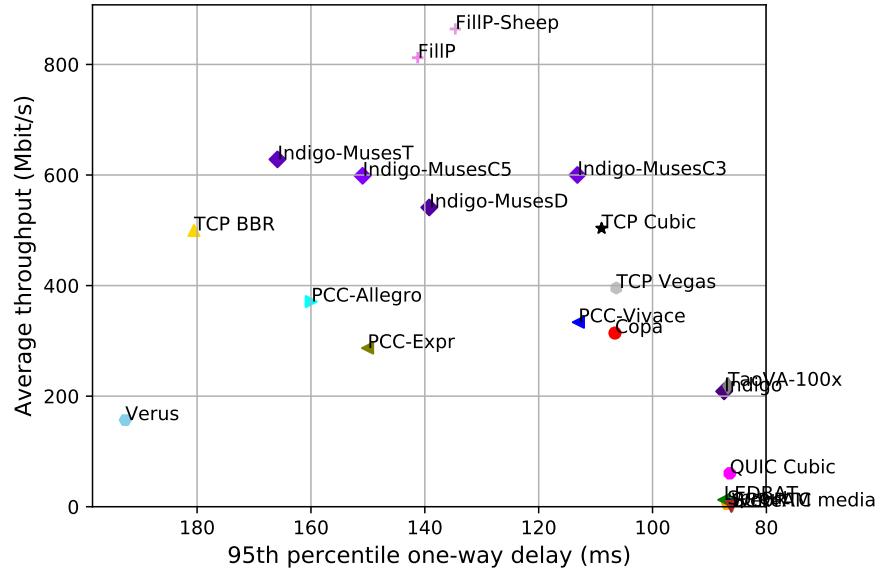
```
Linux 4.15.0-1028-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

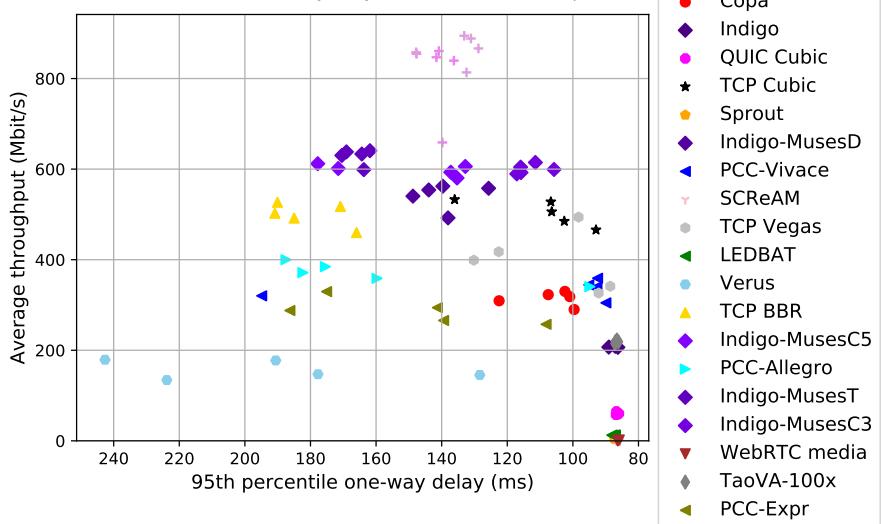
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE Iowa to GCE Sydney, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa to GCE Sydney, 5 runs of 30s each per scheme



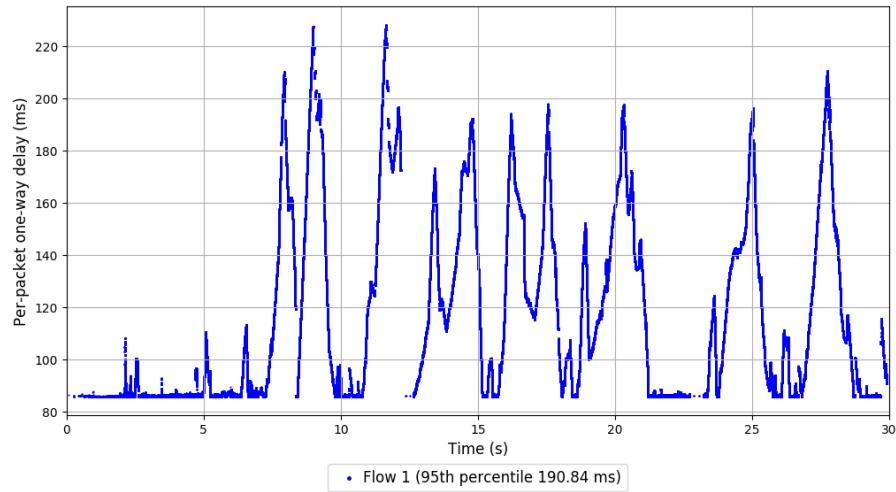
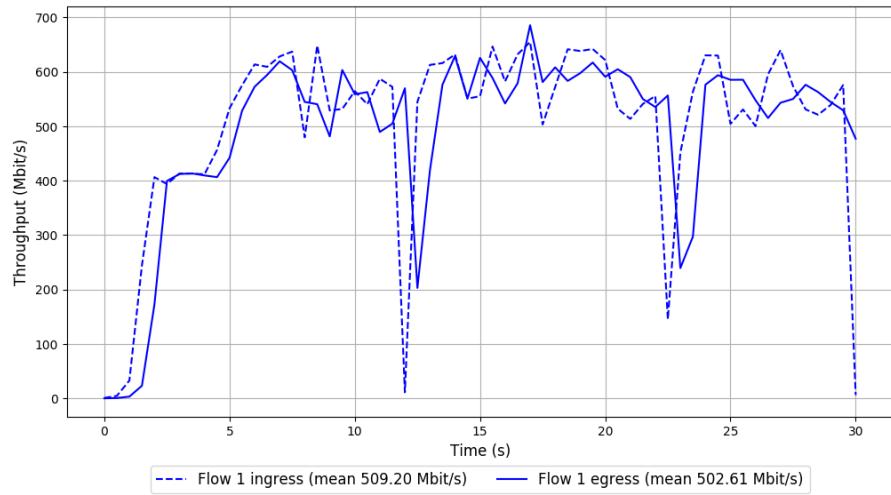
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	499.74	180.54	1.19
Copa	5	314.11	106.60	0.62
TCP Cubic	5	503.48	108.95	0.63
FillP	5	812.17	141.24	1.59
FillP-Sheep	5	864.19	134.65	1.19
Indigo	4	208.65	87.43	0.62
Indigo-MusesC3	5	600.06	113.20	0.67
Indigo-MusesC5	5	598.58	150.93	0.88
Indigo-MusesD	5	541.30	139.22	0.62
Indigo-MusesT	5	628.25	165.89	0.85
LEDBAT	5	12.53	87.49	1.15
PCC-Allegro	5	371.07	159.94	1.13
PCC-Expr	5	286.92	150.06	1.26
QUIC Cubic	4	60.43	86.44	0.96
SCReAM	5	0.22	85.99	0.59
Sprout	5	4.41	86.87	0.64
TaoVA-100x	5	218.72	86.75	0.59
TCP Vegas	5	395.61	106.37	0.48
Verus	5	156.69	192.62	4.21
PCC-Vivace	5	333.70	113.03	0.70
WebRTC media	3	0.68	86.16	0.29

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-18 17:59:57
End at: 2019-03-18 18:00:27
Local clock offset: 11.749 ms
Remote clock offset: 12.78 ms

# Below is generated by plot.py at 2019-03-18 20:44:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 502.61 Mbit/s
95th percentile per-packet one-way delay: 190.845 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 502.61 Mbit/s
95th percentile per-packet one-way delay: 190.845 ms
Loss rate: 1.86%
```

Run 1: Report of TCP BBR — Data Link

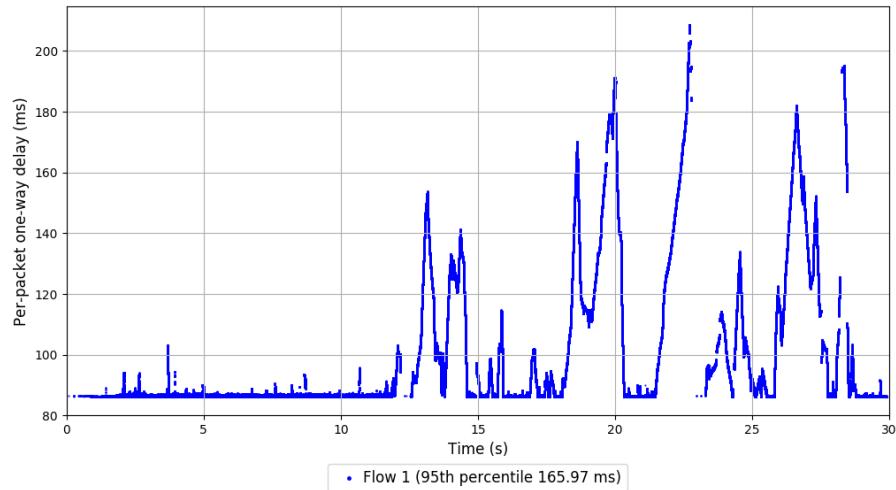
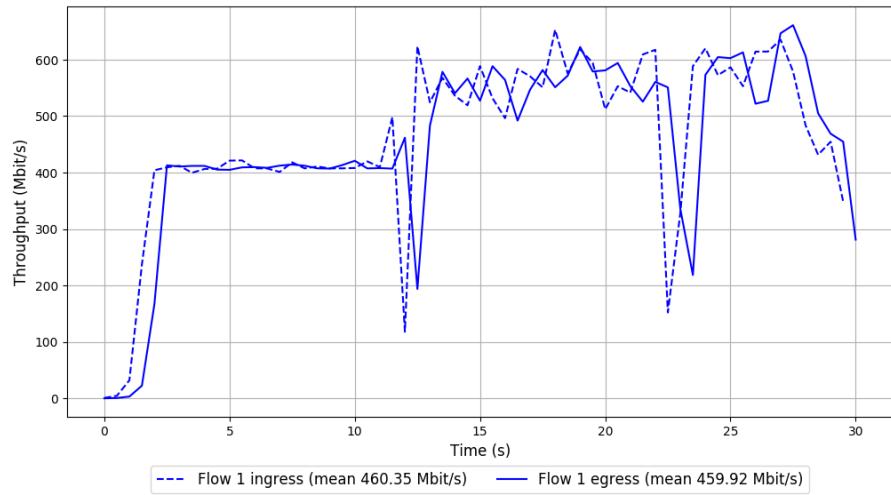


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-18 18:31:23
End at: 2019-03-18 18:31:53
Local clock offset: 19.856 ms
Remote clock offset: 21.753 ms

# Below is generated by plot.py at 2019-03-18 20:44:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 459.92 Mbit/s
95th percentile per-packet one-way delay: 165.972 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 459.92 Mbit/s
95th percentile per-packet one-way delay: 165.972 ms
Loss rate: 0.67%
```

Run 2: Report of TCP BBR — Data Link

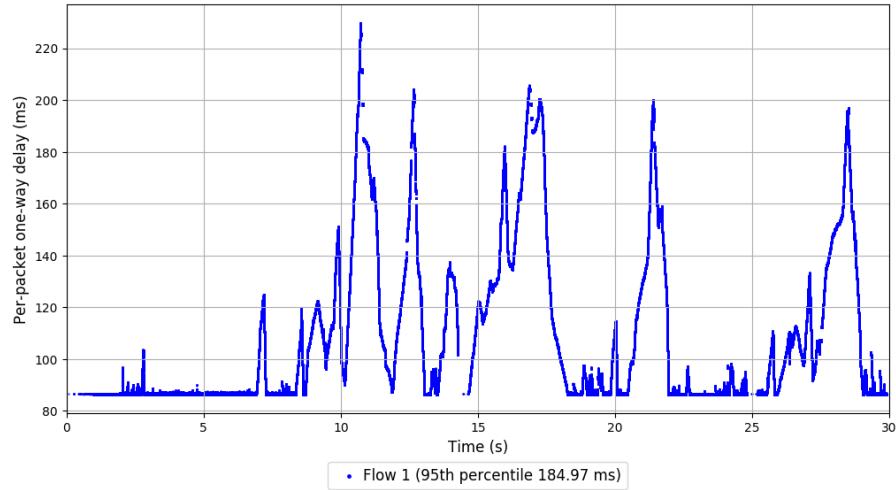
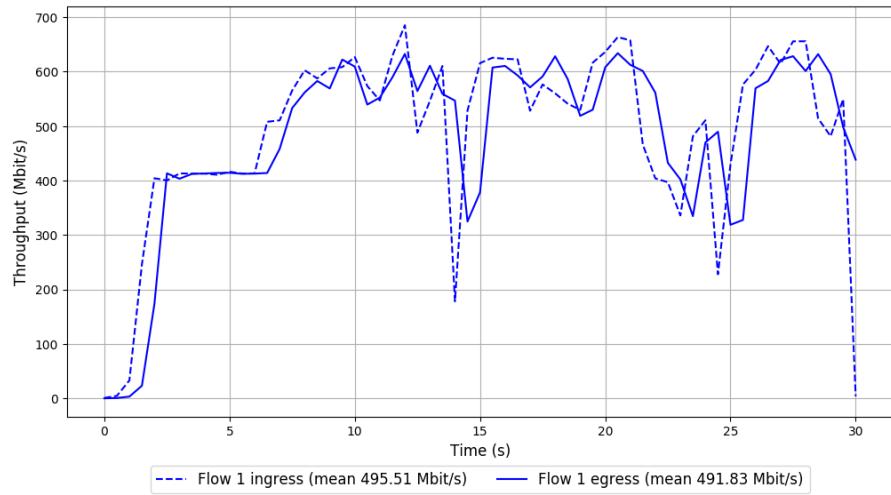


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-18 19:02:47
End at: 2019-03-18 19:03:17
Local clock offset: 19.68 ms
Remote clock offset: 21.408 ms

# Below is generated by plot.py at 2019-03-18 20:44:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 491.83 Mbit/s
95th percentile per-packet one-way delay: 184.973 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 491.83 Mbit/s
95th percentile per-packet one-way delay: 184.973 ms
Loss rate: 1.31%
```

Run 3: Report of TCP BBR — Data Link

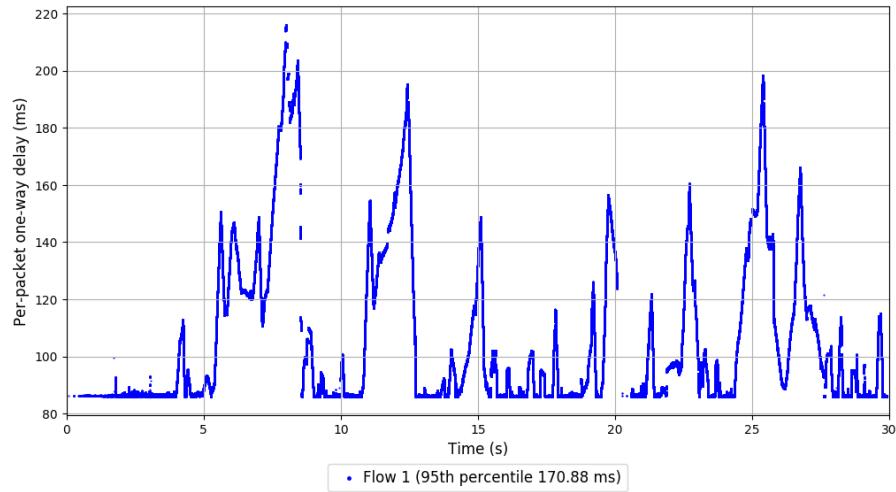
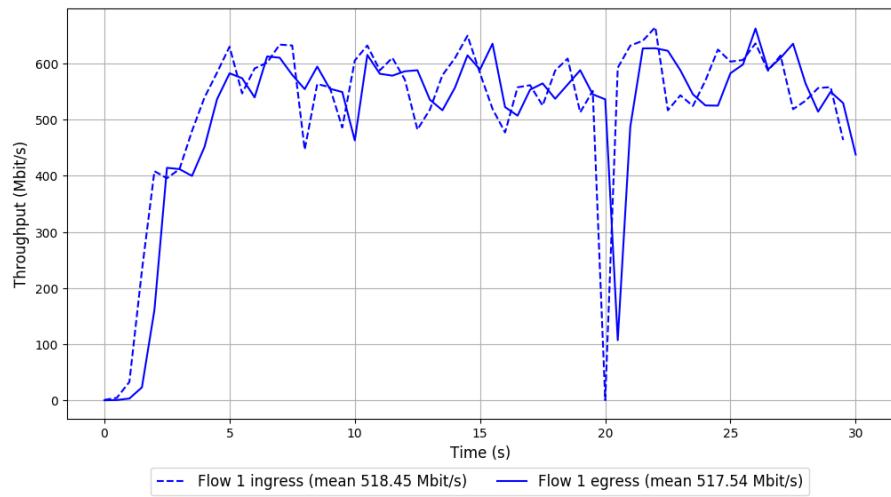


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-18 19:34:25
End at: 2019-03-18 19:34:55
Local clock offset: 11.633 ms
Remote clock offset: 12.844 ms

# Below is generated by plot.py at 2019-03-18 20:44:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 517.54 Mbit/s
95th percentile per-packet one-way delay: 170.876 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 517.54 Mbit/s
95th percentile per-packet one-way delay: 170.876 ms
Loss rate: 0.75%
```

Run 4: Report of TCP BBR — Data Link

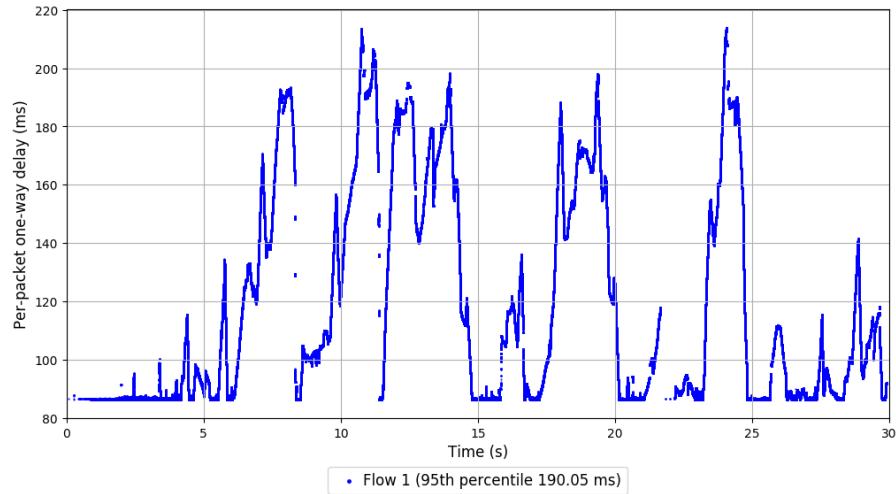
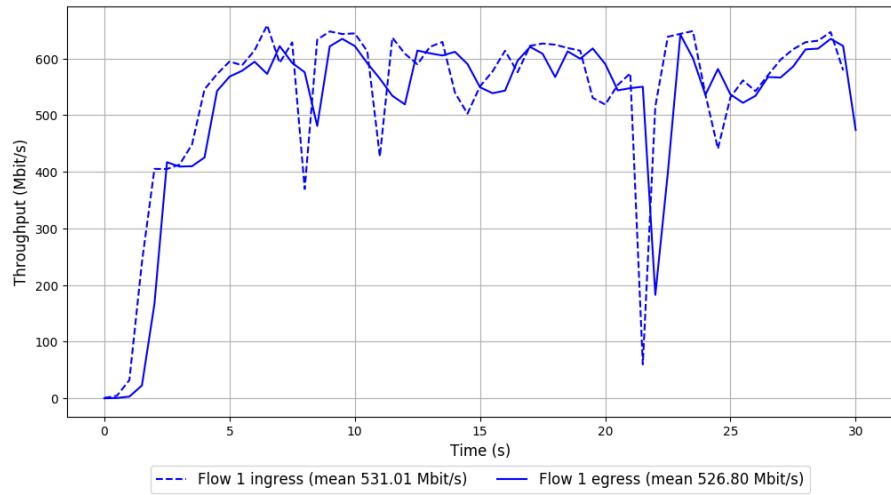


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-18 20:05:43
End at: 2019-03-18 20:06:13
Local clock offset: 6.852 ms
Remote clock offset: 7.725 ms

# Below is generated by plot.py at 2019-03-18 20:44:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 526.80 Mbit/s
95th percentile per-packet one-way delay: 190.053 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 526.80 Mbit/s
95th percentile per-packet one-way delay: 190.053 ms
Loss rate: 1.37%
```

Run 5: Report of TCP BBR — Data Link

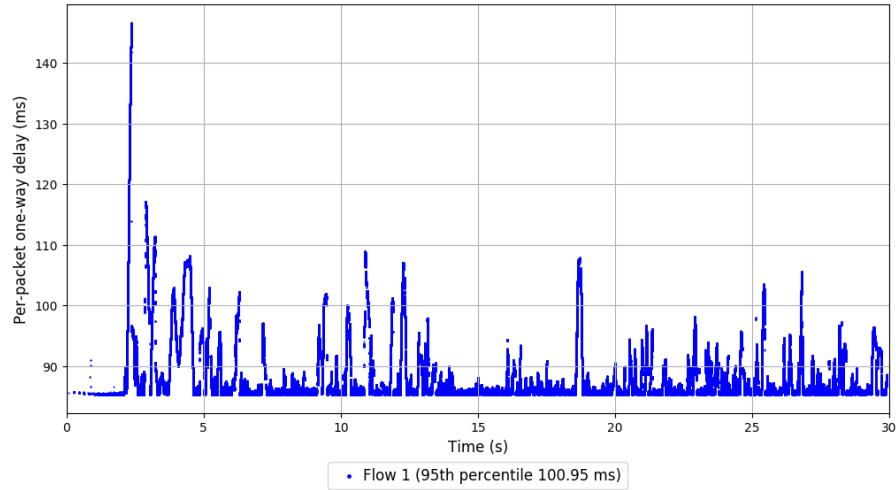
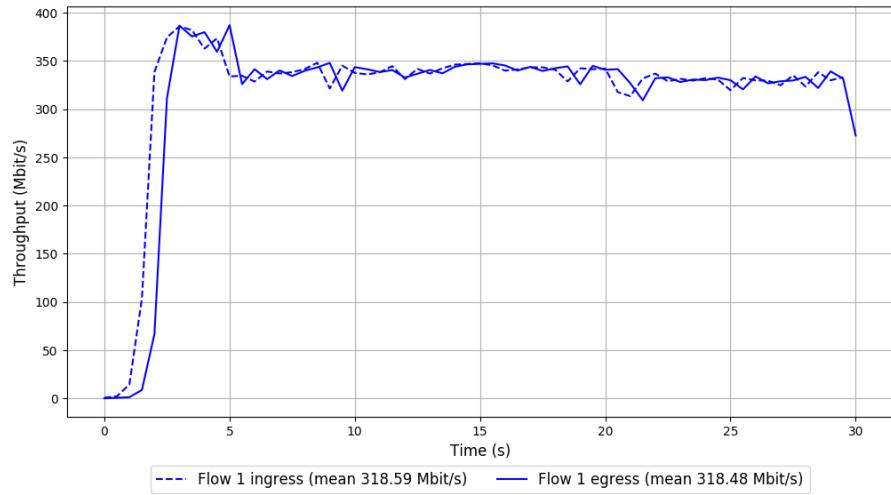


Run 1: Statistics of Copa

```
Start at: 2019-03-18 18:13:43
End at: 2019-03-18 18:14:13
Local clock offset: 17.327 ms
Remote clock offset: 19.404 ms

# Below is generated by plot.py at 2019-03-18 20:45:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 318.48 Mbit/s
95th percentile per-packet one-way delay: 100.949 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 318.48 Mbit/s
95th percentile per-packet one-way delay: 100.949 ms
Loss rate: 0.61%
```

Run 1: Report of Copa — Data Link

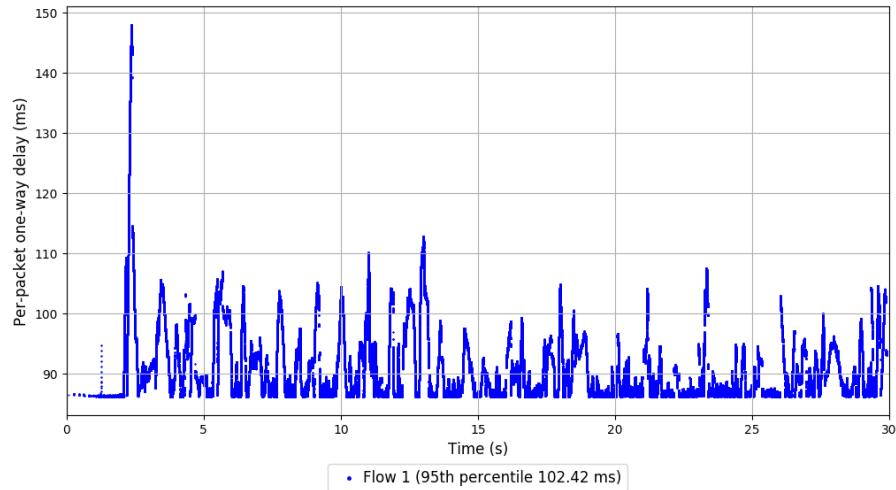
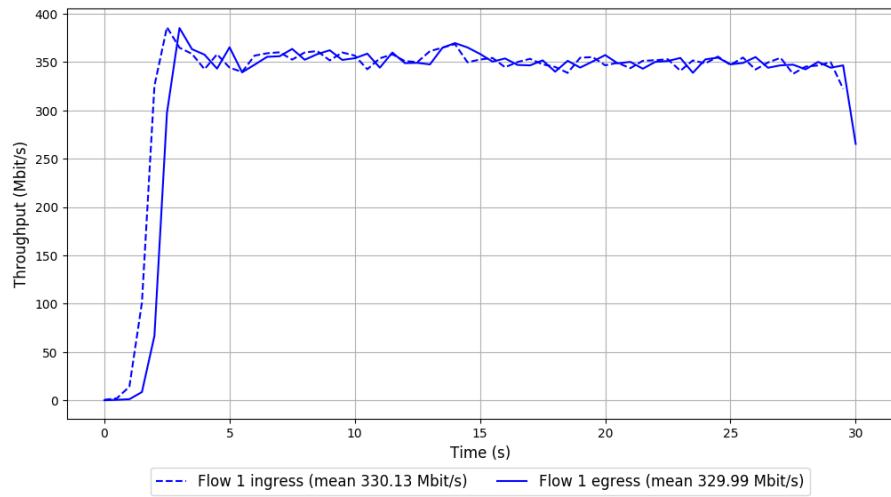


Run 2: Statistics of Copa

```
Start at: 2019-03-18 18:45:07
End at: 2019-03-18 18:45:37
Local clock offset: 29.693 ms
Remote clock offset: 32.658 ms

# Below is generated by plot.py at 2019-03-18 20:45:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 329.99 Mbit/s
95th percentile per-packet one-way delay: 102.424 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 329.99 Mbit/s
95th percentile per-packet one-way delay: 102.424 ms
Loss rate: 0.62%
```

Run 2: Report of Copa — Data Link

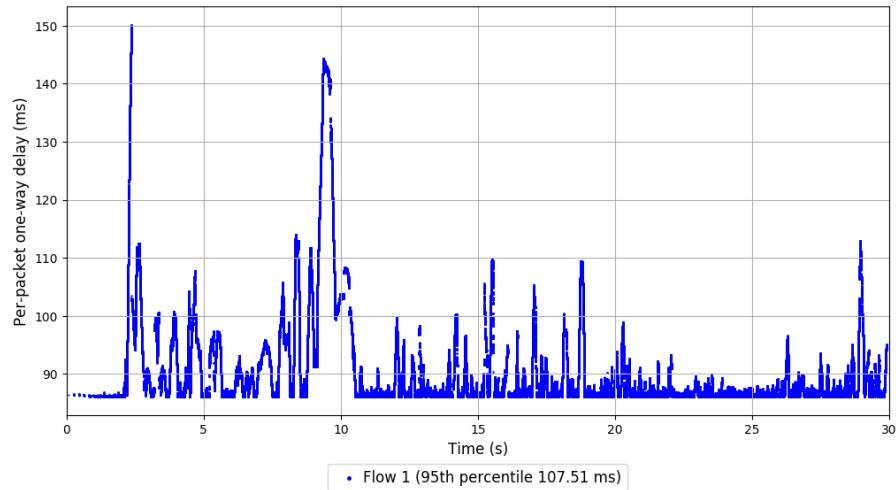
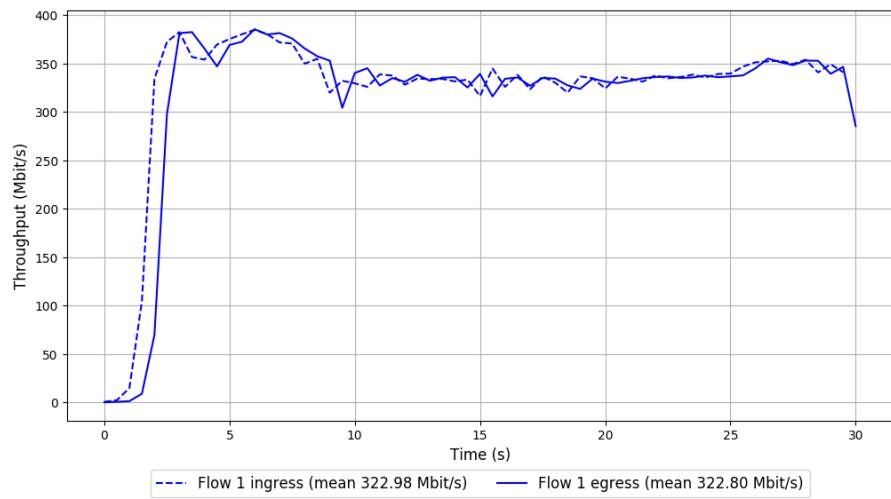


Run 3: Statistics of Copa

```
Start at: 2019-03-18 19:16:28
End at: 2019-03-18 19:16:58
Local clock offset: 15.25 ms
Remote clock offset: 16.984 ms

# Below is generated by plot.py at 2019-03-18 20:45:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.80 Mbit/s
95th percentile per-packet one-way delay: 107.513 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 322.80 Mbit/s
95th percentile per-packet one-way delay: 107.513 ms
Loss rate: 0.63%
```

Run 3: Report of Copa — Data Link

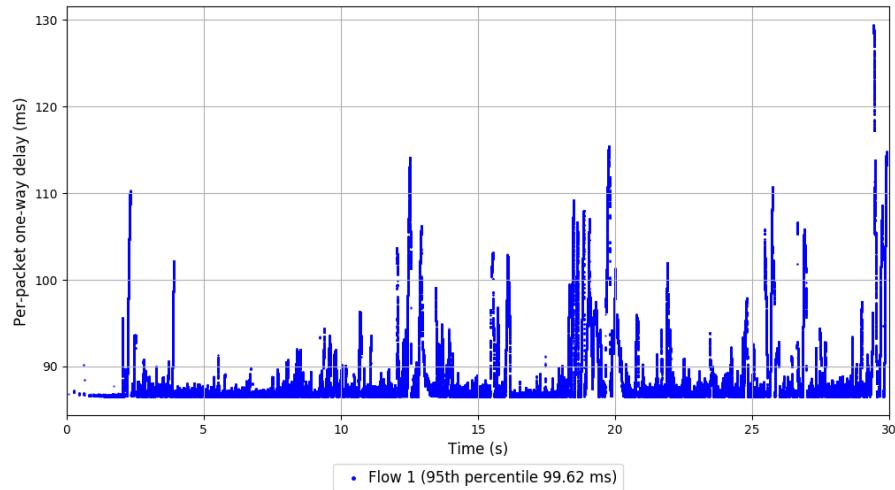
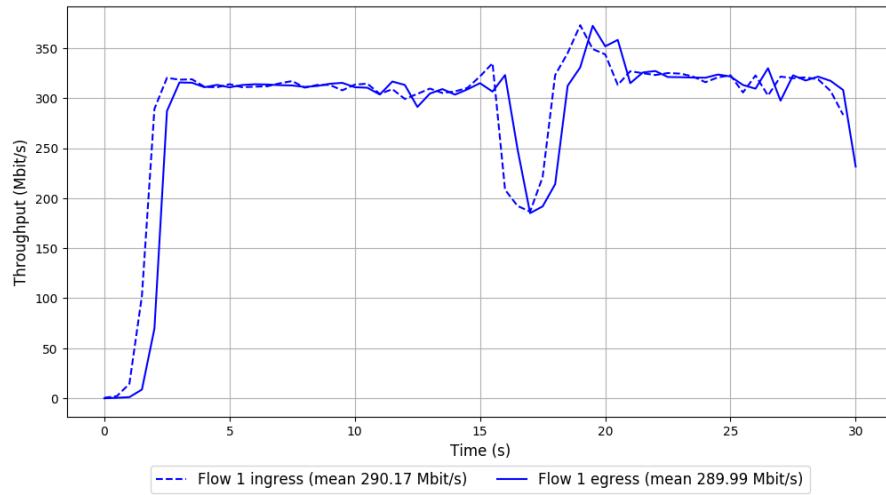


Run 4: Statistics of Copa

```
Start at: 2019-03-18 19:48:07
End at: 2019-03-18 19:48:37
Local clock offset: 7.65 ms
Remote clock offset: 7.991 ms

# Below is generated by plot.py at 2019-03-18 20:53:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.99 Mbit/s
95th percentile per-packet one-way delay: 99.616 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 289.99 Mbit/s
95th percentile per-packet one-way delay: 99.616 ms
Loss rate: 0.64%
```

Run 4: Report of Copa — Data Link

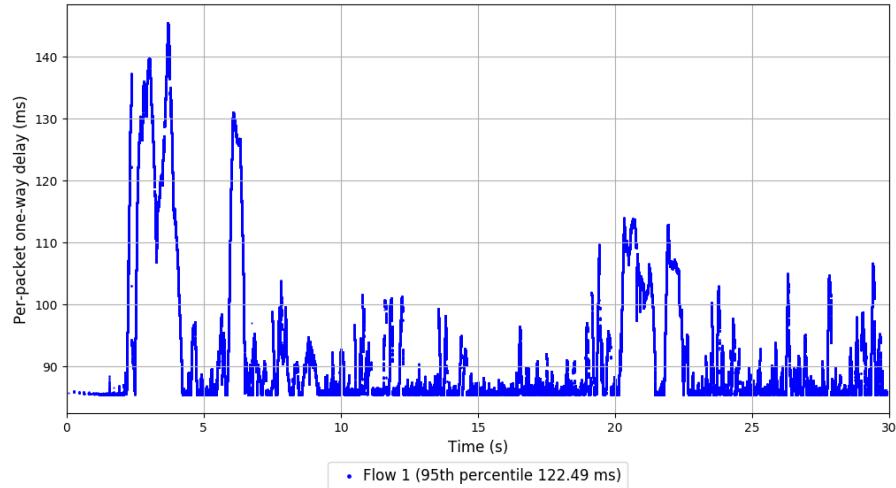
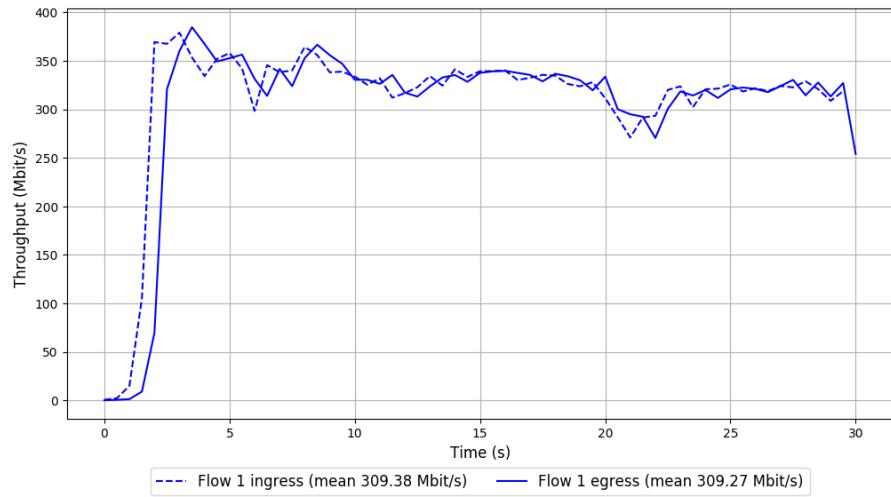


Run 5: Statistics of Copa

```
Start at: 2019-03-18 20:19:26
End at: 2019-03-18 20:19:56
Local clock offset: 1.887 ms
Remote clock offset: 3.74 ms

# Below is generated by plot.py at 2019-03-18 20:53:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.27 Mbit/s
95th percentile per-packet one-way delay: 122.491 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 309.27 Mbit/s
95th percentile per-packet one-way delay: 122.491 ms
Loss rate: 0.61%
```

Run 5: Report of Copa — Data Link



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

```
Start at: 2019-03-18 18:09:24
```

```
End at: 2019-03-18 18:09:54
```

```
Local clock offset: 12.983 ms
```

```
Remote clock offset: 14.888 ms
```

```
# Below is generated by plot.py at 2019-03-18 20:53:52
```

```
# Datalink statistics
```

```
-- Total of 1 flow:
```

```
Average throughput: 532.83 Mbit/s
```

```
95th percentile per-packet one-way delay: 136.041 ms
```

```
Loss rate: 0.59%
```

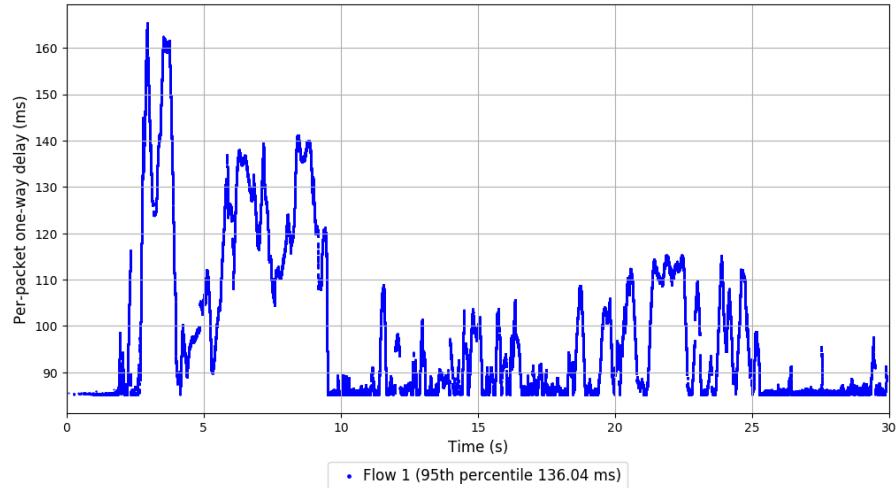
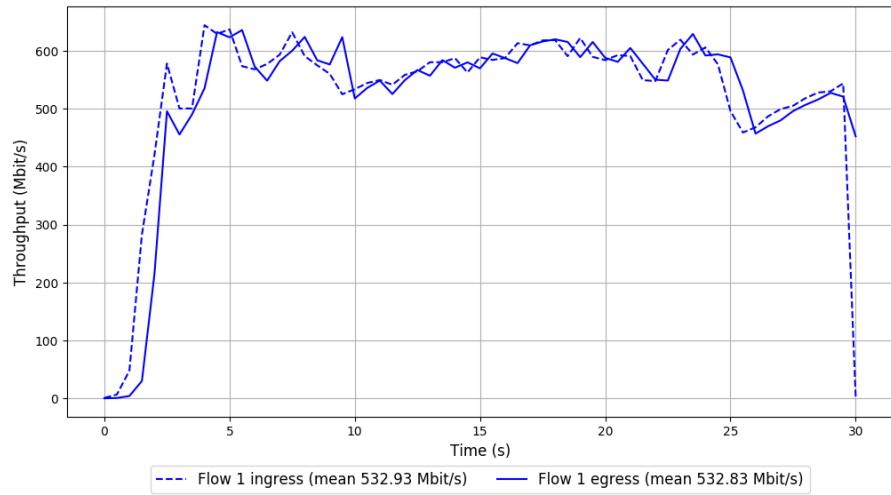
```
-- Flow 1:
```

```
Average throughput: 532.83 Mbit/s
```

```
95th percentile per-packet one-way delay: 136.041 ms
```

```
Loss rate: 0.59%
```

Run 1: Report of TCP Cubic — Data Link

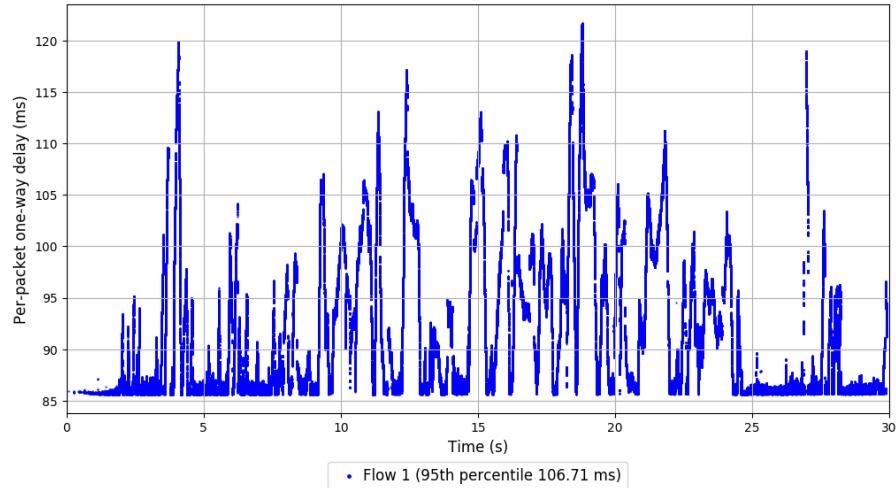
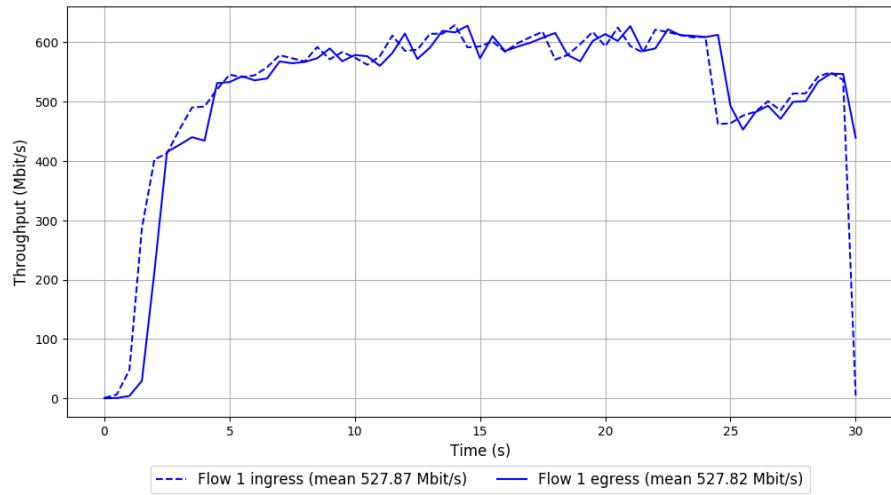


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-18 18:40:48
End at: 2019-03-18 18:41:18
Local clock offset: 25.458 ms
Remote clock offset: 28.195 ms

# Below is generated by plot.py at 2019-03-18 20:53:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 527.82 Mbit/s
95th percentile per-packet one-way delay: 106.713 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 527.82 Mbit/s
95th percentile per-packet one-way delay: 106.713 ms
Loss rate: 0.59%
```

Run 2: Report of TCP Cubic — Data Link

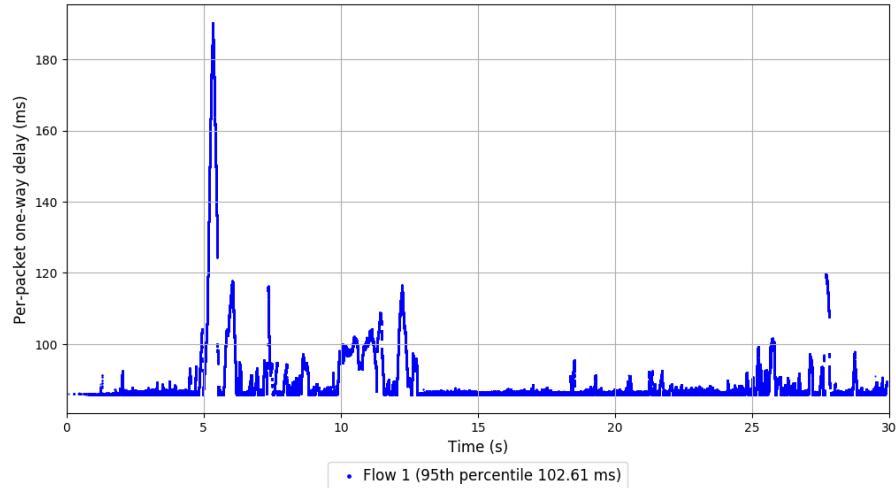
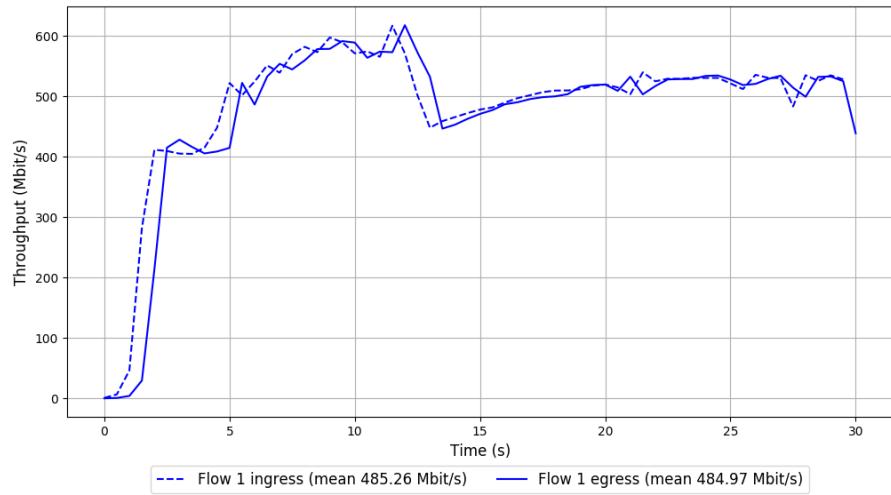


```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2019-03-18 19:12:12
End at: 2019-03-18 19:12:42
Local clock offset: 14.7 ms
Remote clock offset: 16.424 ms

# Below is generated by plot.py at 2019-03-18 20:53:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 484.97 Mbit/s
95th percentile per-packet one-way delay: 102.606 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 484.97 Mbit/s
95th percentile per-packet one-way delay: 102.606 ms
Loss rate: 0.63%
```

Run 3: Report of TCP Cubic — Data Link

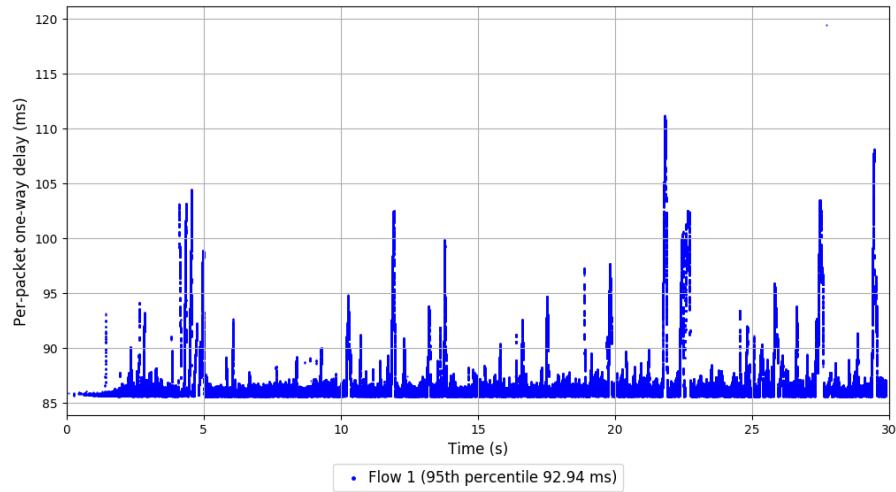
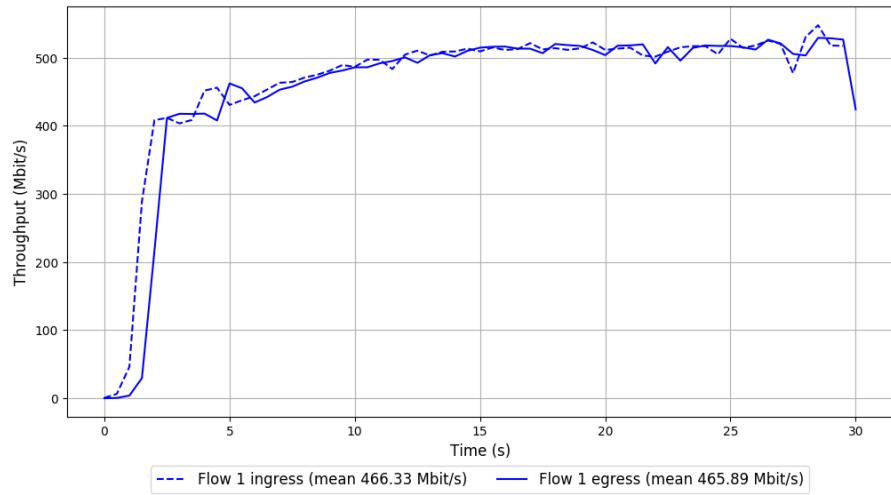


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-18 19:43:54
End at: 2019-03-18 19:44:24
Local clock offset: 7.144 ms
Remote clock offset: 8.146 ms

# Below is generated by plot.py at 2019-03-18 20:53:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 465.89 Mbit/s
95th percentile per-packet one-way delay: 92.944 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 465.89 Mbit/s
95th percentile per-packet one-way delay: 92.944 ms
Loss rate: 0.67%
```

Run 4: Report of TCP Cubic — Data Link

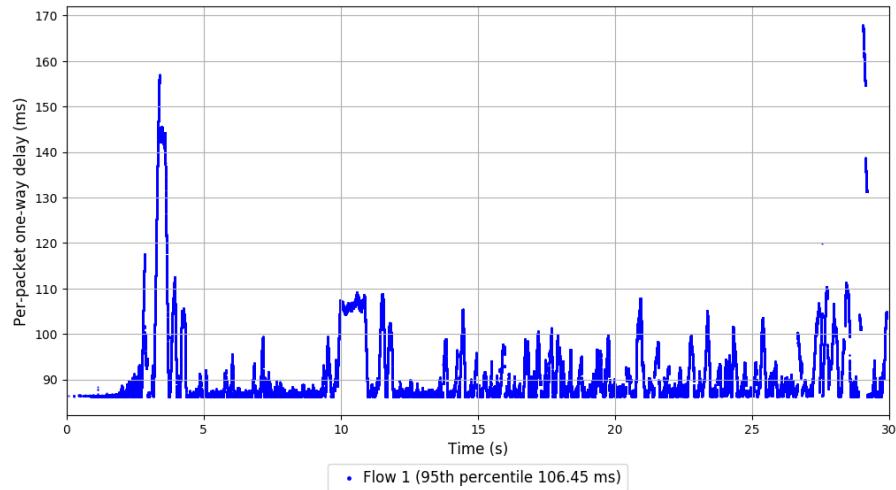
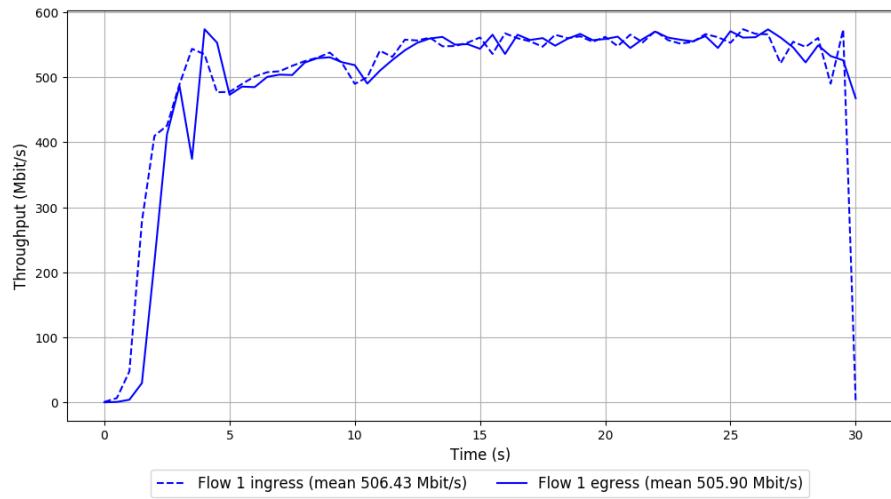


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-18 20:15:09
End at: 2019-03-18 20:15:39
Local clock offset: 3.33 ms
Remote clock offset: 4.106 ms

# Below is generated by plot.py at 2019-03-18 20:54:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 505.90 Mbit/s
95th percentile per-packet one-way delay: 106.455 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 505.90 Mbit/s
95th percentile per-packet one-way delay: 106.455 ms
Loss rate: 0.68%
```

Run 5: Report of TCP Cubic — Data Link

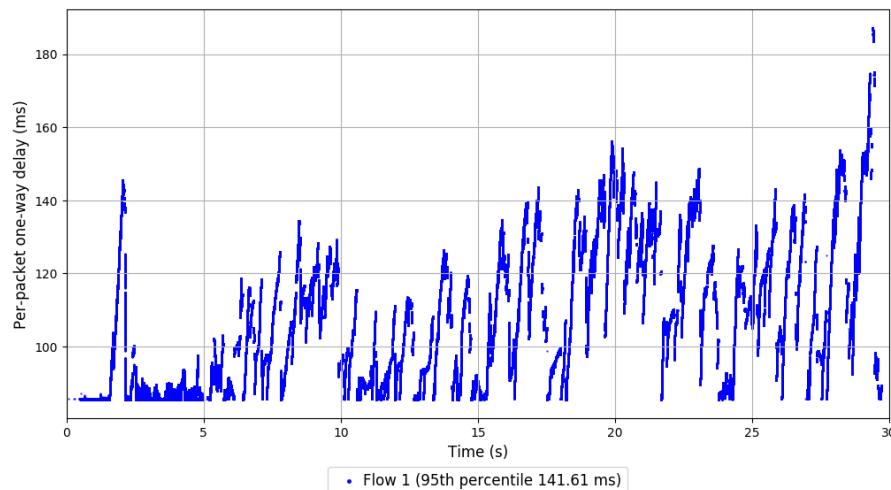
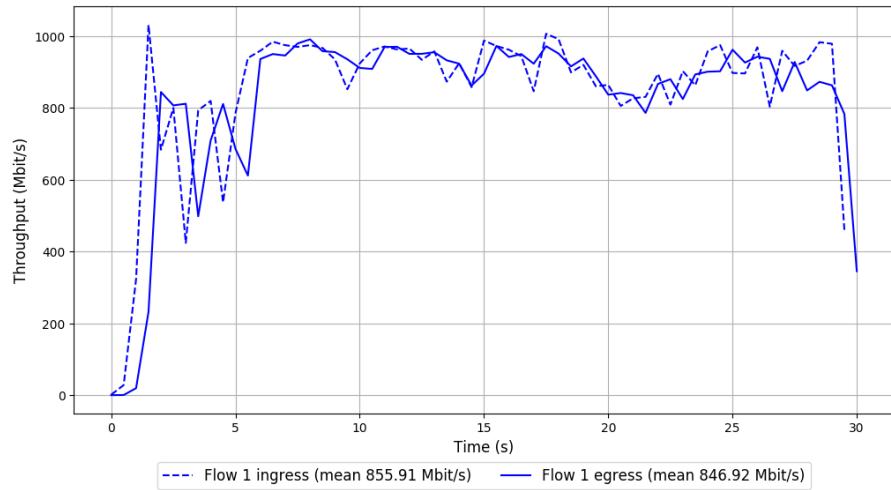


```
Run 1: Statistics of FillP

Start at: 2019-03-18 18:17:00
End at: 2019-03-18 18:17:30
Local clock offset: 21.189 ms
Remote clock offset: 23.923 ms

# Below is generated by plot.py at 2019-03-18 21:02:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 846.92 Mbit/s
95th percentile per-packet one-way delay: 141.608 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 846.92 Mbit/s
95th percentile per-packet one-way delay: 141.608 ms
Loss rate: 1.65%
```

Run 1: Report of FillP — Data Link

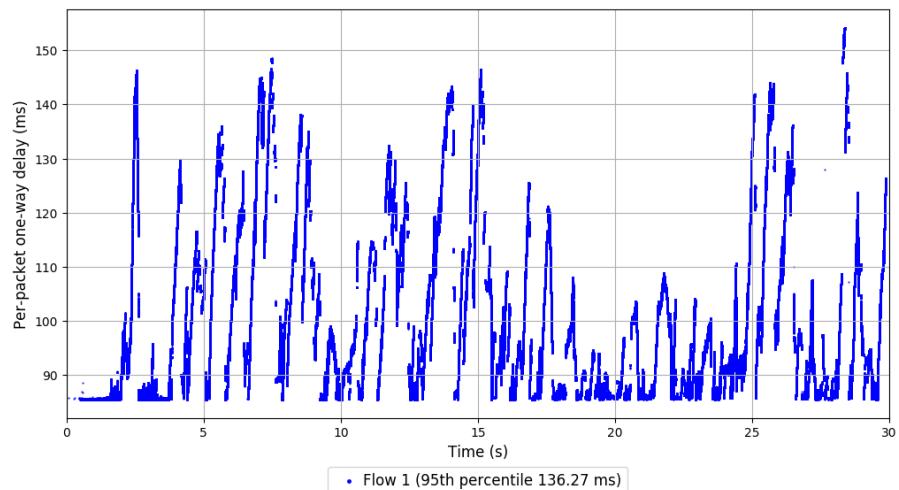
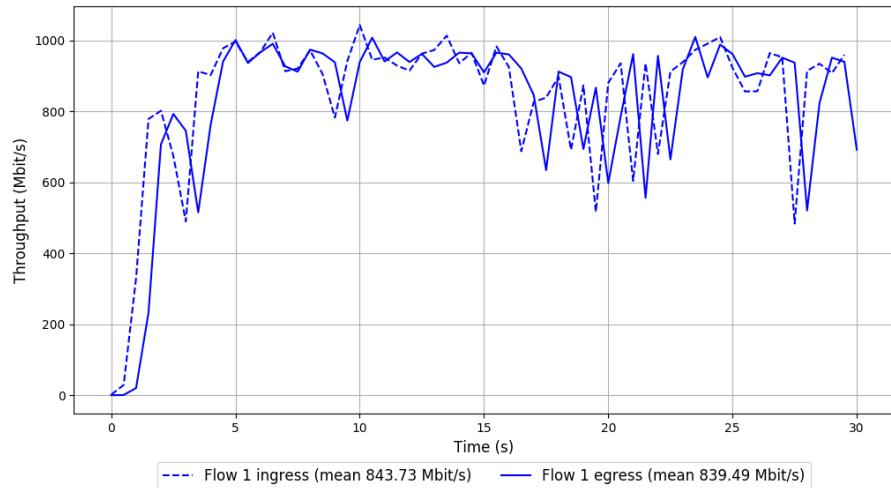


Run 2: Statistics of FillP

```
Start at: 2019-03-18 18:48:26
End at: 2019-03-18 18:48:56
Local clock offset: 32.781 ms
Remote clock offset: 36.38 ms

# Below is generated by plot.py at 2019-03-18 21:10:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 839.49 Mbit/s
95th percentile per-packet one-way delay: 136.274 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 839.49 Mbit/s
95th percentile per-packet one-way delay: 136.274 ms
Loss rate: 1.08%
```

Run 2: Report of FillP — Data Link

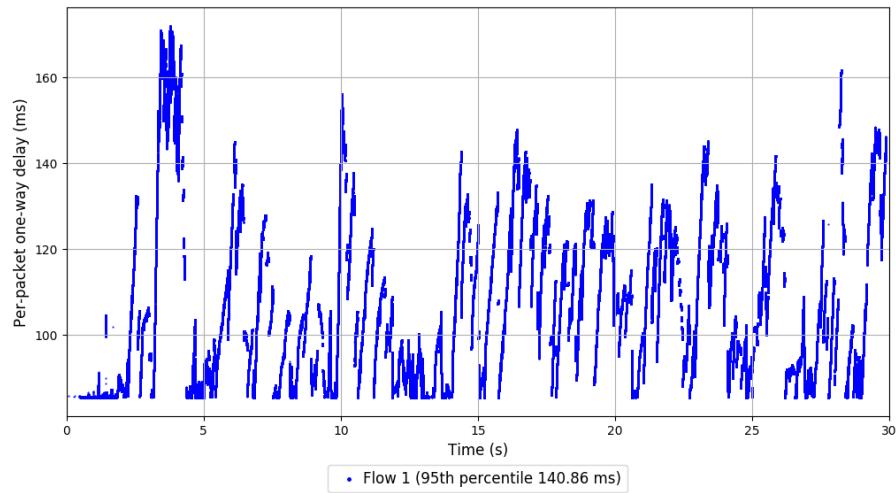
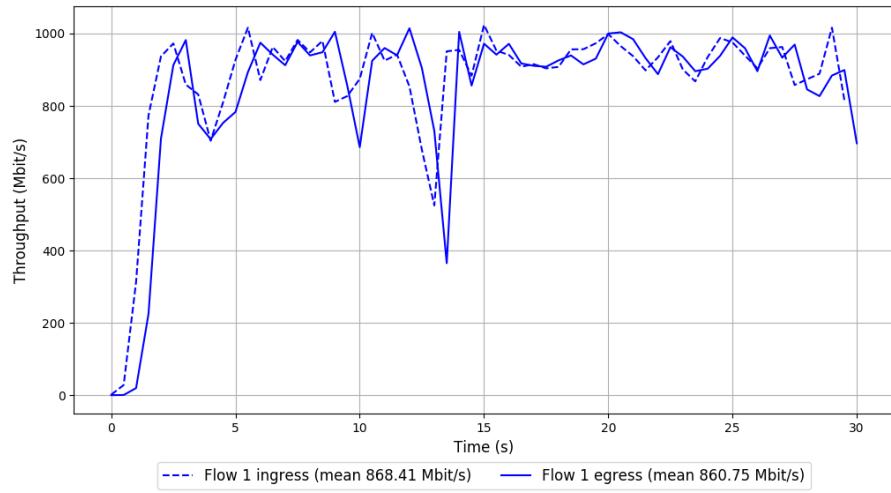


```
Run 3: Statistics of FillP
```

```
Start at: 2019-03-18 19:19:56
End at: 2019-03-18 19:20:26
Local clock offset: 15.756 ms
Remote clock offset: 18.023 ms

# Below is generated by plot.py at 2019-03-18 21:11:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 860.75 Mbit/s
95th percentile per-packet one-way delay: 140.858 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 860.75 Mbit/s
95th percentile per-packet one-way delay: 140.858 ms
Loss rate: 1.45%
```

Run 3: Report of FillP — Data Link

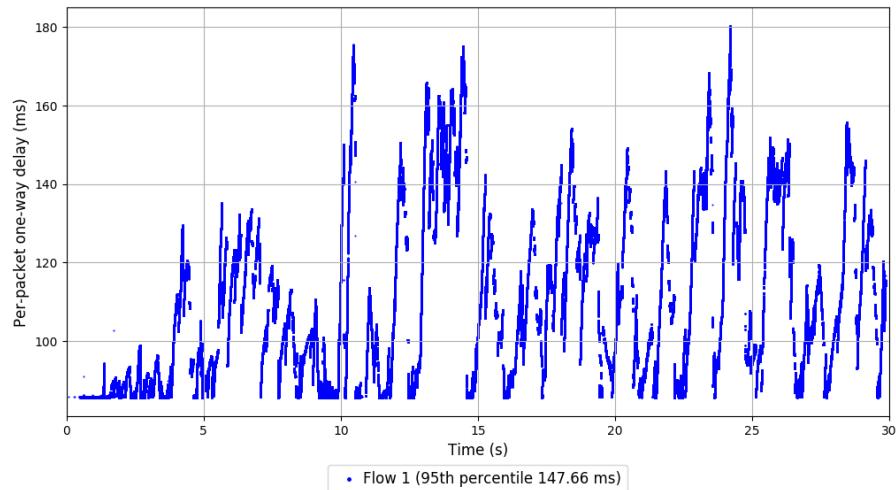
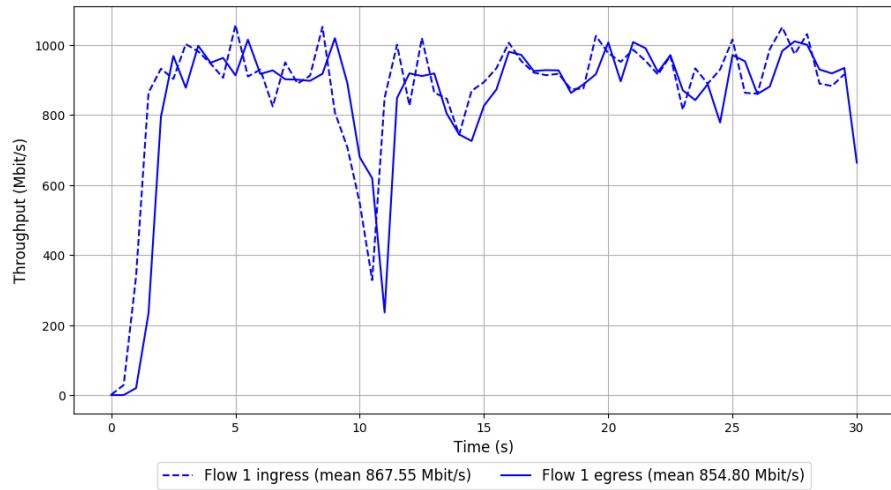


```
Run 4: Statistics of FillP
```

```
Start at: 2019-03-18 19:51:22
End at: 2019-03-18 19:51:52
Local clock offset: 7.338 ms
Remote clock offset: 8.26 ms

# Below is generated by plot.py at 2019-03-18 21:11:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 854.80 Mbit/s
95th percentile per-packet one-way delay: 147.661 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 854.80 Mbit/s
95th percentile per-packet one-way delay: 147.661 ms
Loss rate: 2.03%
```

Run 4: Report of FillP — Data Link

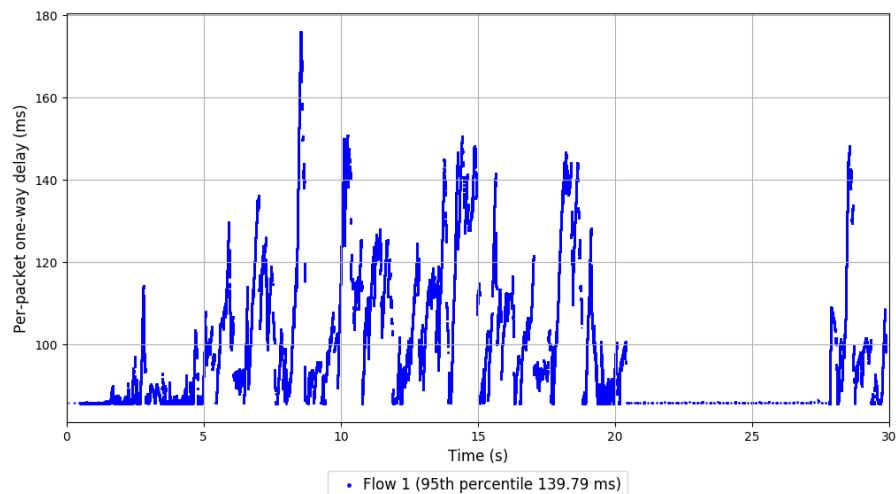
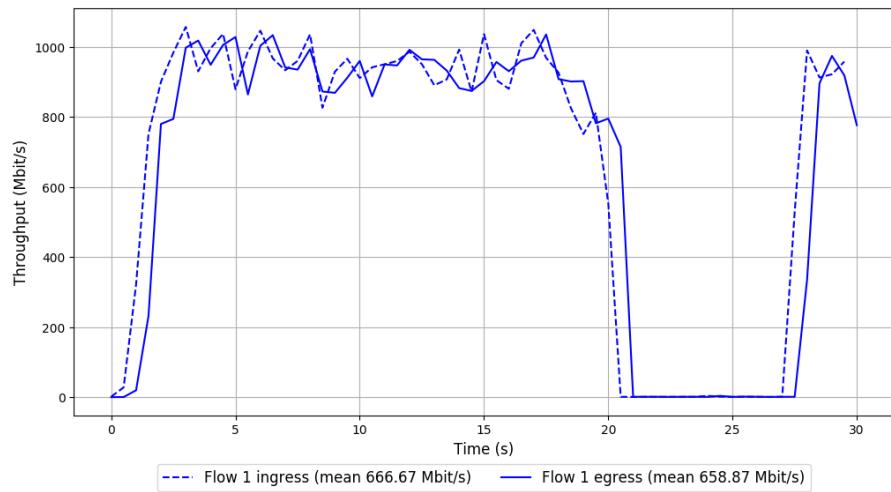


Run 5: Statistics of FillP

```
Start at: 2019-03-18 20:22:44
End at: 2019-03-18 20:23:14
Local clock offset: 1.908 ms
Remote clock offset: 3.742 ms

# Below is generated by plot.py at 2019-03-18 21:11:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 658.87 Mbit/s
95th percentile per-packet one-way delay: 139.792 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 658.87 Mbit/s
95th percentile per-packet one-way delay: 139.792 ms
Loss rate: 1.74%
```

Run 5: Report of FillP — Data Link

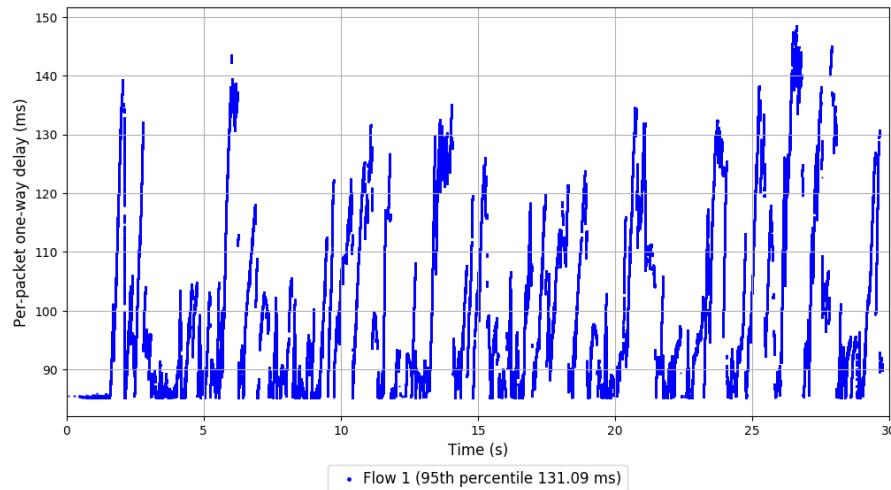
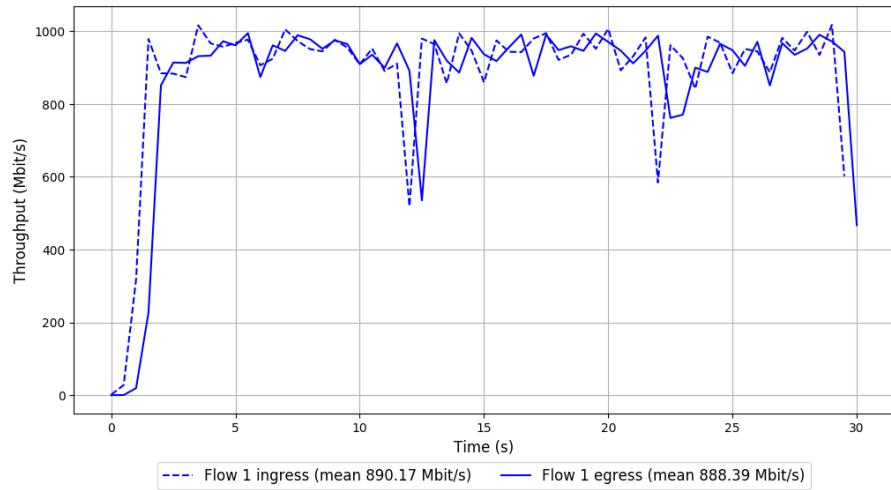


Run 1: Statistics of FillP-Sheep

```
Start at: 2019-03-18 18:07:37
End at: 2019-03-18 18:08:07
Local clock offset: 12.472 ms
Remote clock offset: 14.249 ms

# Below is generated by plot.py at 2019-03-18 21:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 888.39 Mbit/s
95th percentile per-packet one-way delay: 131.085 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 888.39 Mbit/s
95th percentile per-packet one-way delay: 131.085 ms
Loss rate: 0.78%
```

Run 1: Report of FillP-Sheep — Data Link

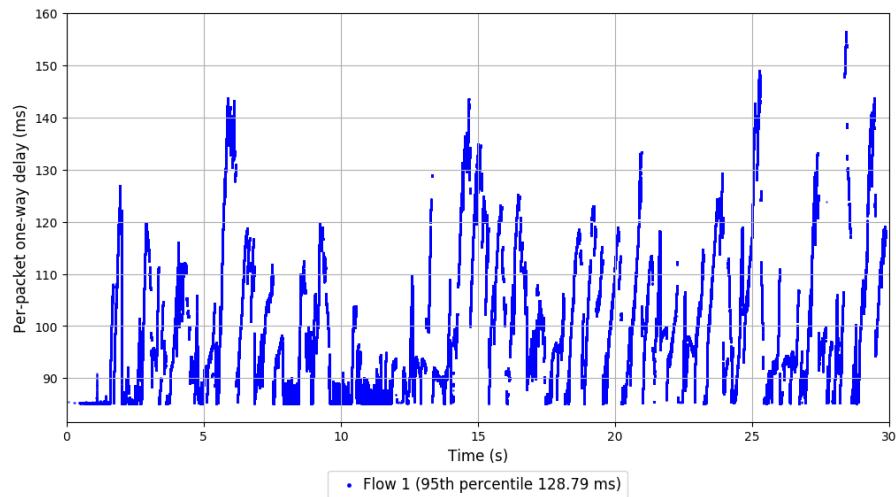
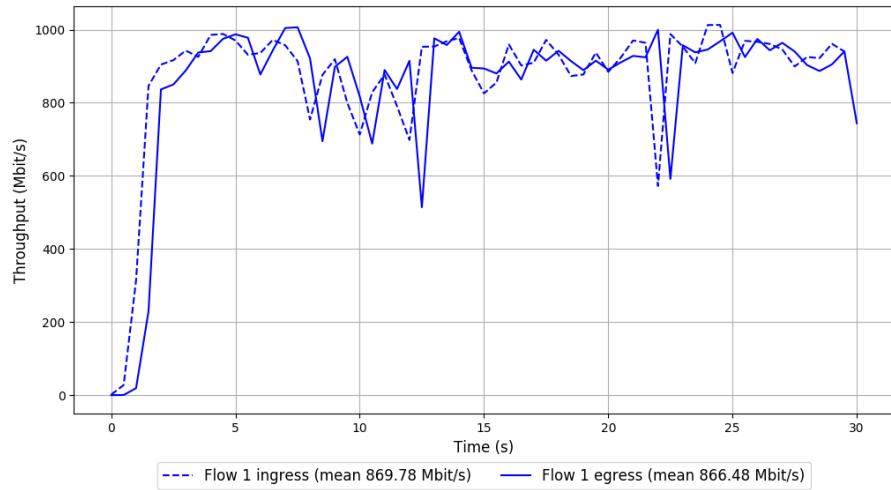


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-18 18:39:02
End at: 2019-03-18 18:39:32
Local clock offset: 23.699 ms
Remote clock offset: 26.733 ms

# Below is generated by plot.py at 2019-03-18 21:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 866.48 Mbit/s
95th percentile per-packet one-way delay: 128.793 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 866.48 Mbit/s
95th percentile per-packet one-way delay: 128.793 ms
Loss rate: 0.95%
```

Run 2: Report of FillP-Sheep — Data Link

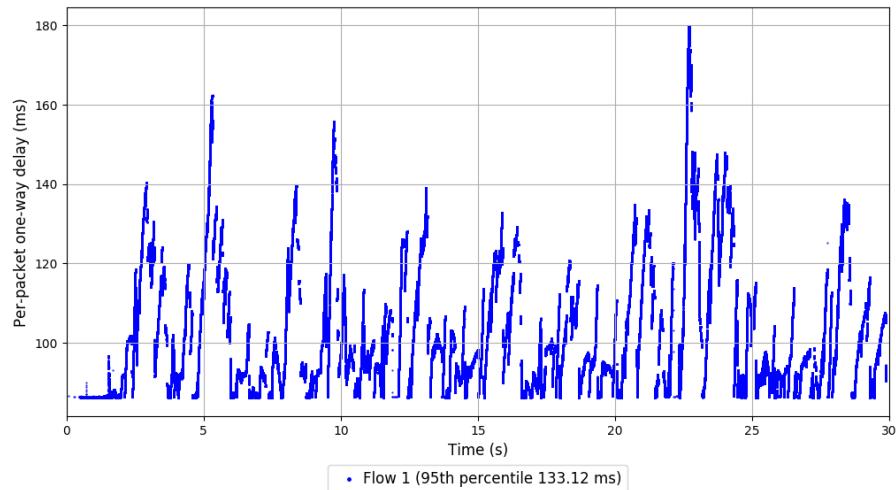
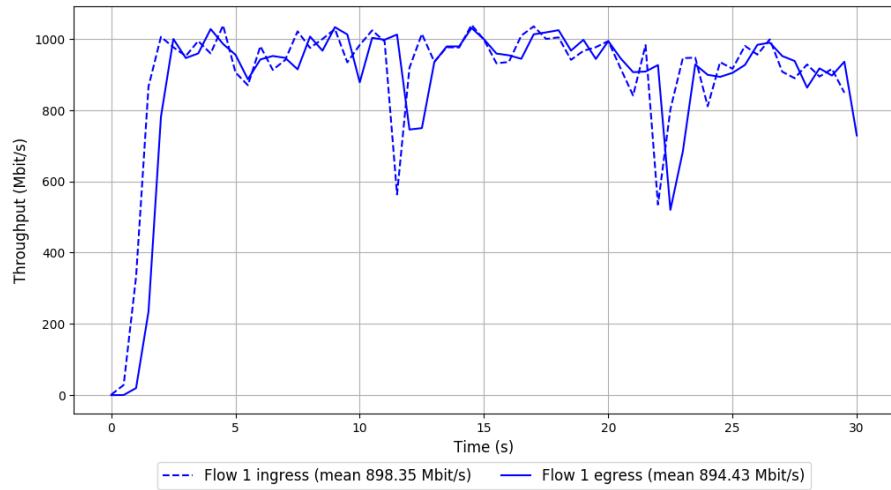


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-18 19:10:26
End at: 2019-03-18 19:10:56
Local clock offset: 15.384 ms
Remote clock offset: 16.556 ms

# Below is generated by plot.py at 2019-03-18 21:13:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 894.43 Mbit/s
95th percentile per-packet one-way delay: 133.120 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 894.43 Mbit/s
95th percentile per-packet one-way delay: 133.120 ms
Loss rate: 1.01%
```

Run 3: Report of FillP-Sheep — Data Link

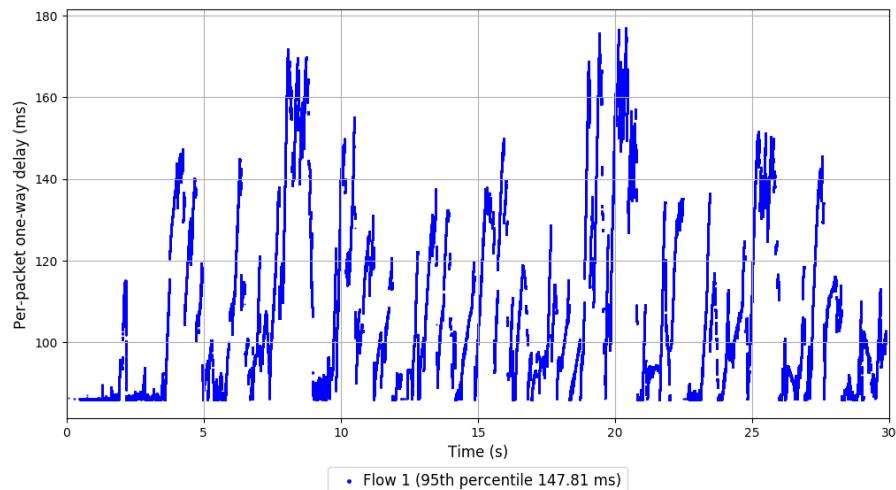
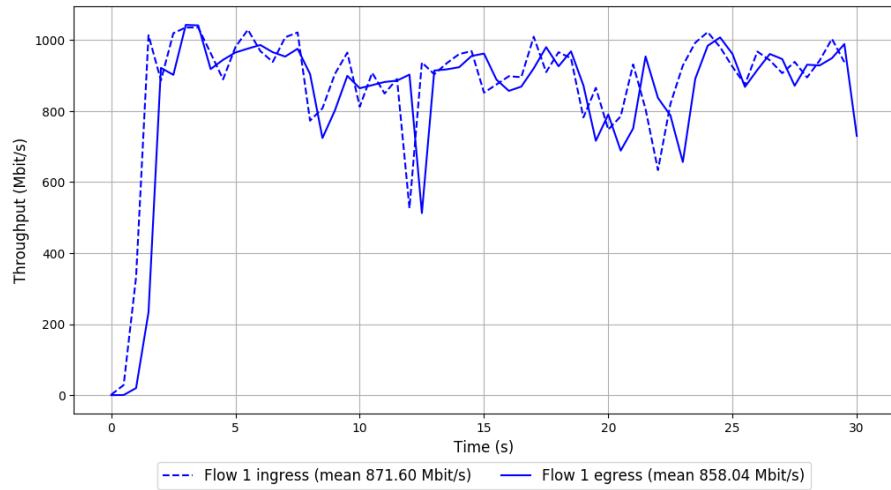


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-18 19:42:09
End at: 2019-03-18 19:42:39
Local clock offset: 7.719 ms
Remote clock offset: 8.449 ms

# Below is generated by plot.py at 2019-03-18 21:23:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 858.04 Mbit/s
95th percentile per-packet one-way delay: 147.805 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 858.04 Mbit/s
95th percentile per-packet one-way delay: 147.805 ms
Loss rate: 2.12%
```

Run 4: Report of FillP-Sheep — Data Link

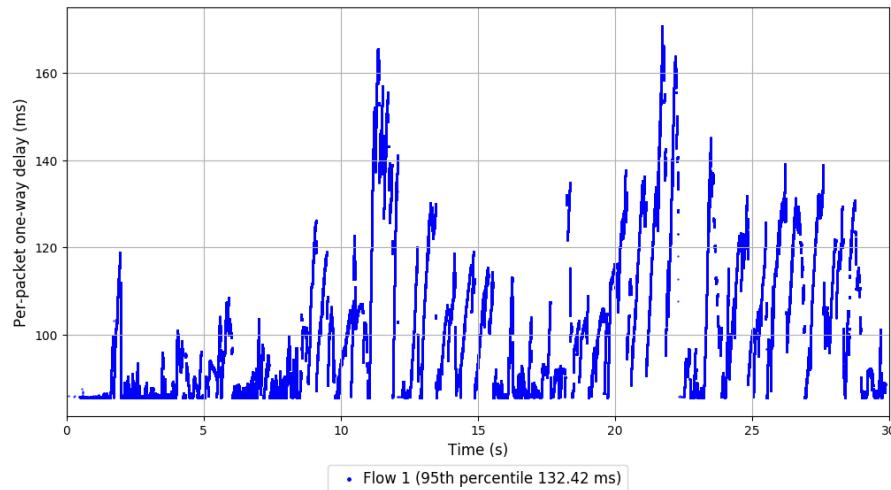
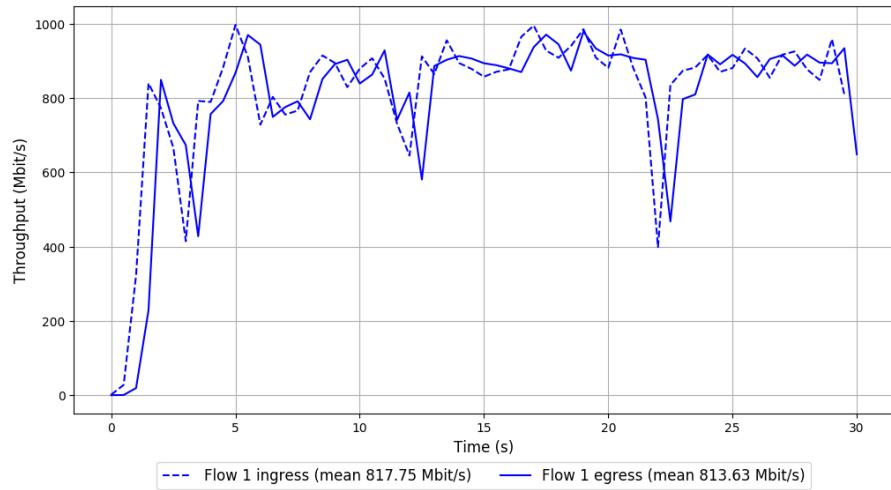


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-18 20:13:25
End at: 2019-03-18 20:13:55
Local clock offset: 3.188 ms
Remote clock offset: 4.414 ms

# Below is generated by plot.py at 2019-03-18 21:25:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 813.63 Mbit/s
95th percentile per-packet one-way delay: 132.424 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 813.63 Mbit/s
95th percentile per-packet one-way delay: 132.424 ms
Loss rate: 1.08%
```

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

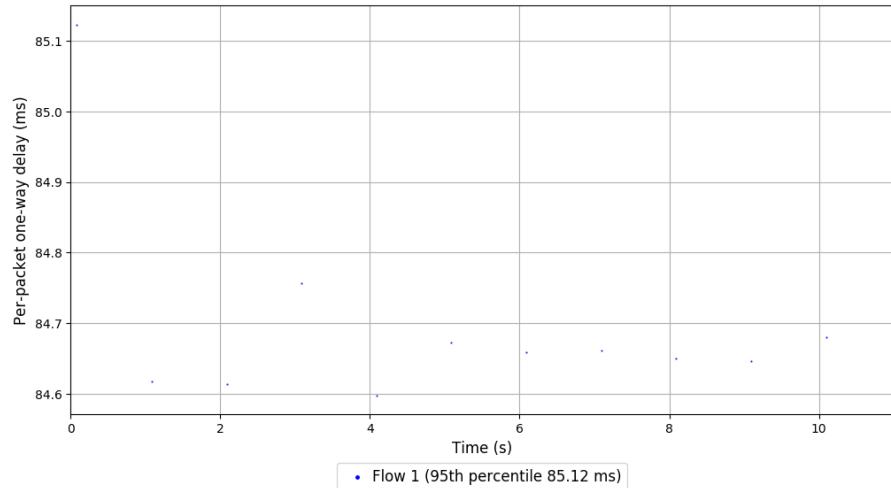
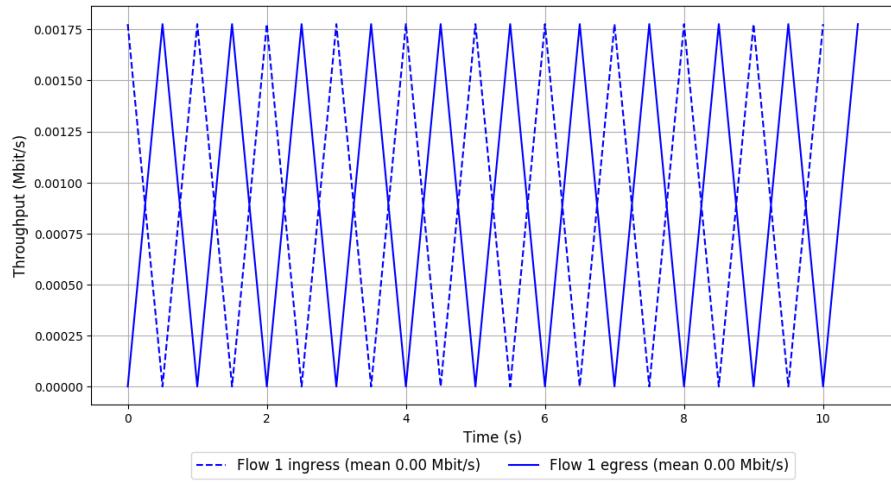
Start at: 2019-03-18 17:47:40

End at: 2019-03-18 17:48:10

Local clock offset: 2.292 ms

Remote clock offset: 3.318 ms

Run 1: Report of Indigo — Data Link

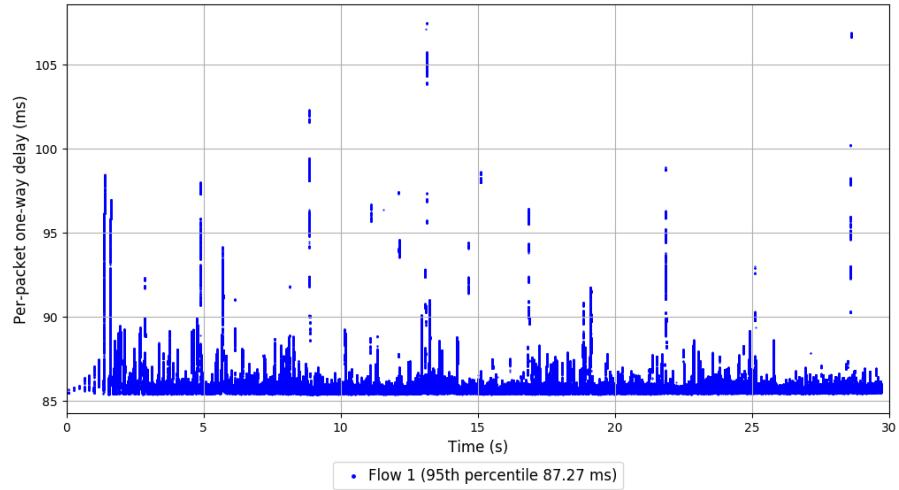
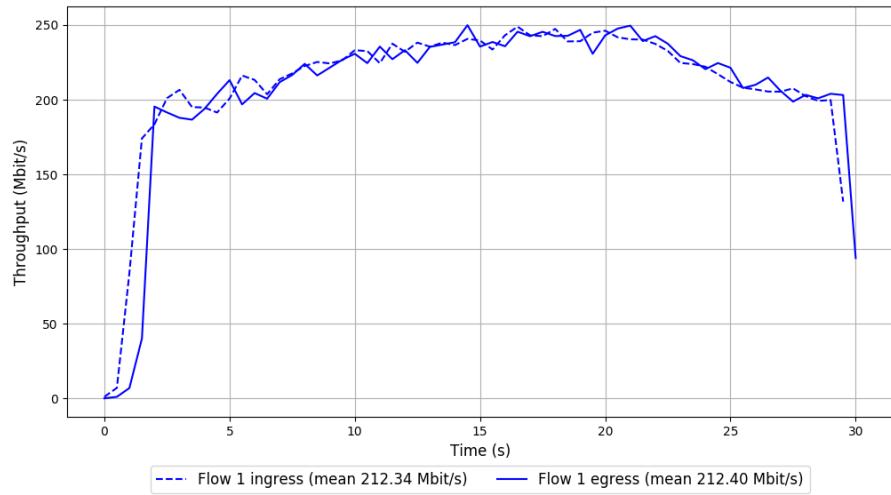


Run 2: Statistics of Indigo

```
Start at: 2019-03-18 18:18:44
End at: 2019-03-18 18:19:15
Local clock offset: 23.781 ms
Remote clock offset: 26.448 ms

# Below is generated by plot.py at 2019-03-18 21:25:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.40 Mbit/s
95th percentile per-packet one-way delay: 87.273 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 212.40 Mbit/s
95th percentile per-packet one-way delay: 87.273 ms
Loss rate: 0.56%
```

Run 2: Report of Indigo — Data Link

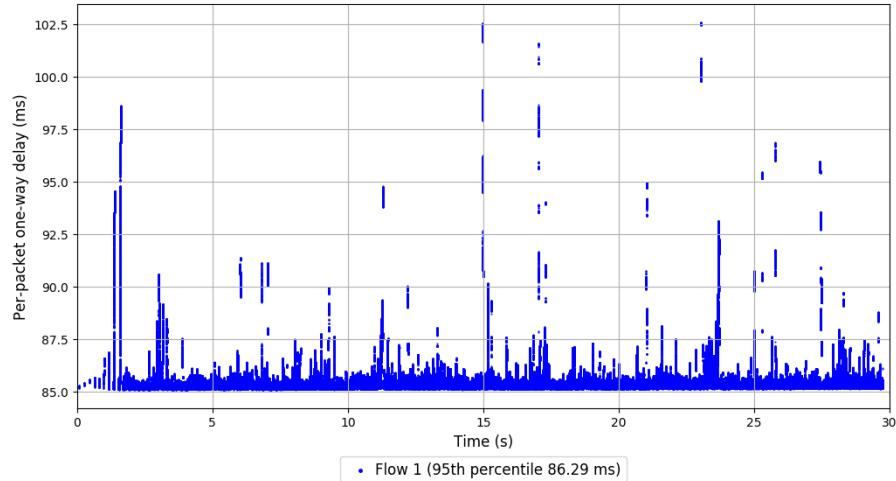
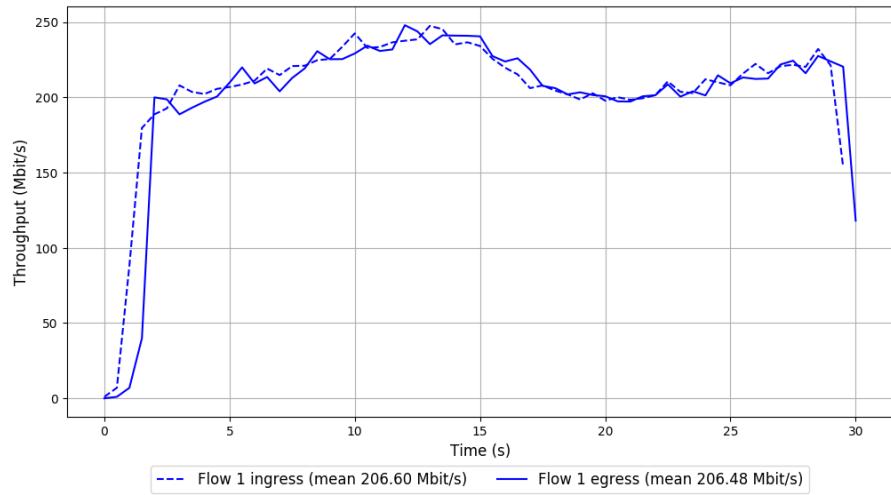


Run 3: Statistics of Indigo

```
Start at: 2019-03-18 18:50:10
End at: 2019-03-18 18:50:40
Local clock offset: 33.998 ms
Remote clock offset: 38.171 ms

# Below is generated by plot.py at 2019-03-18 21:25:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.48 Mbit/s
95th percentile per-packet one-way delay: 86.287 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 206.48 Mbit/s
95th percentile per-packet one-way delay: 86.287 ms
Loss rate: 0.63%
```

Run 3: Report of Indigo — Data Link

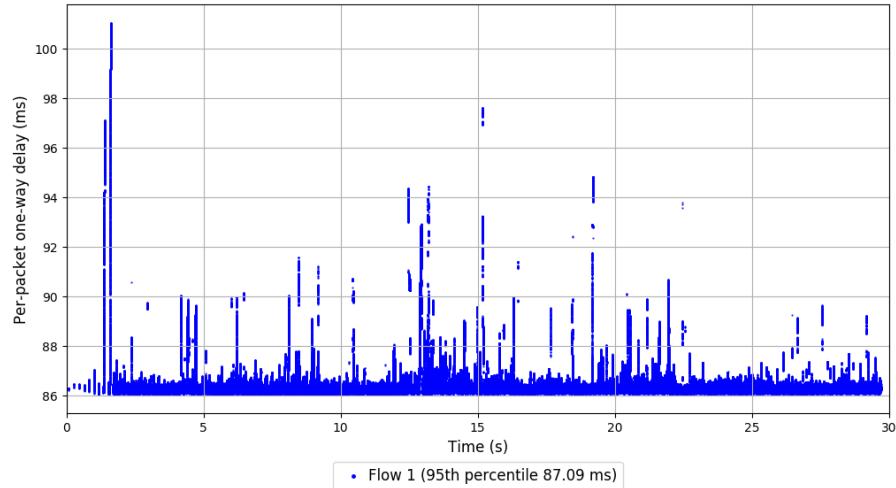
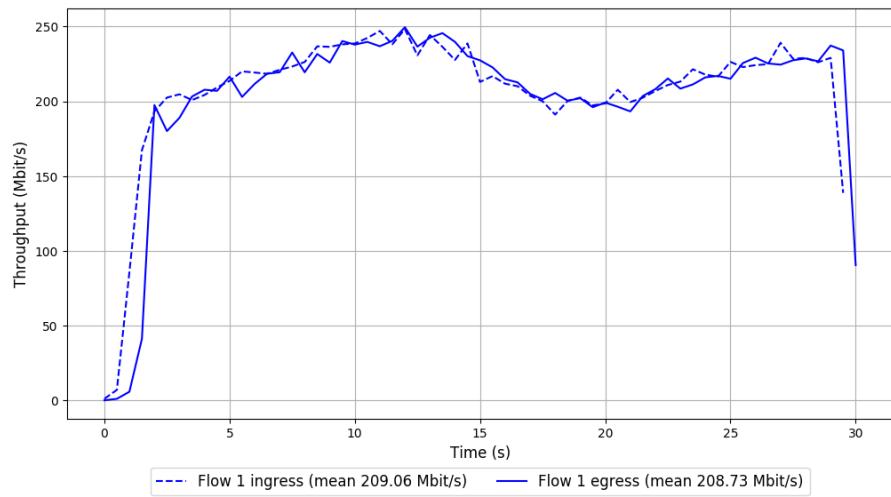


Run 4: Statistics of Indigo

```
Start at: 2019-03-18 19:21:47
End at: 2019-03-18 19:22:17
Local clock offset: 16.815 ms
Remote clock offset: 18.691 ms

# Below is generated by plot.py at 2019-03-18 21:25:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.73 Mbit/s
95th percentile per-packet one-way delay: 87.088 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 208.73 Mbit/s
95th percentile per-packet one-way delay: 87.088 ms
Loss rate: 0.65%
```

Run 4: Report of Indigo — Data Link

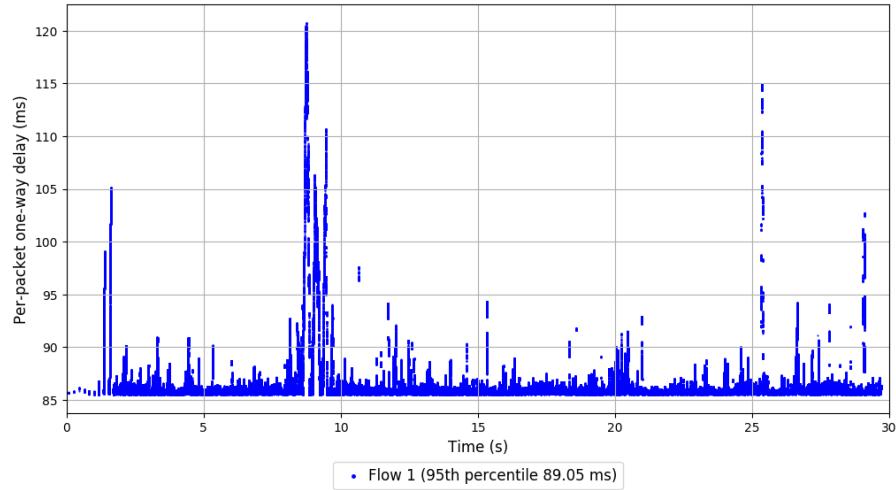
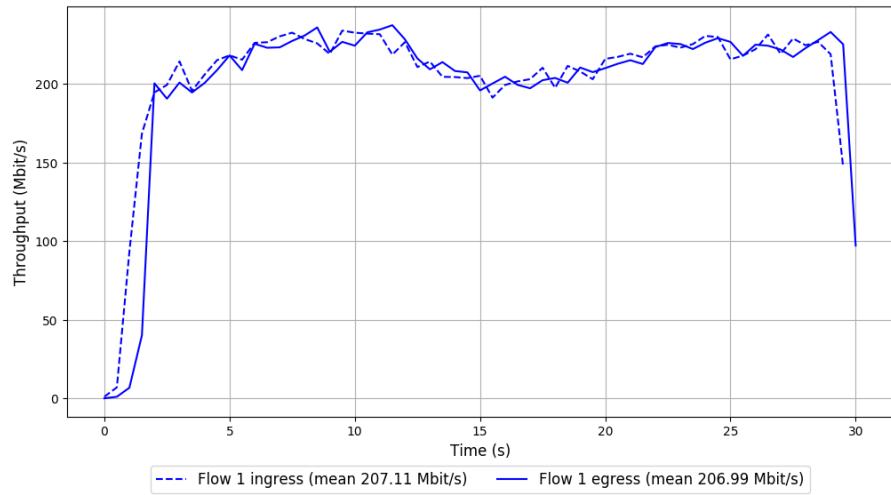


Run 5: Statistics of Indigo

```
Start at: 2019-03-18 19:53:08
End at: 2019-03-18 19:53:38
Local clock offset: 7.459 ms
Remote clock offset: 8.48 ms

# Below is generated by plot.py at 2019-03-18 21:25:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.99 Mbit/s
95th percentile per-packet one-way delay: 89.052 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 206.99 Mbit/s
95th percentile per-packet one-way delay: 89.052 ms
Loss rate: 0.65%
```

Run 5: Report of Indigo — Data Link

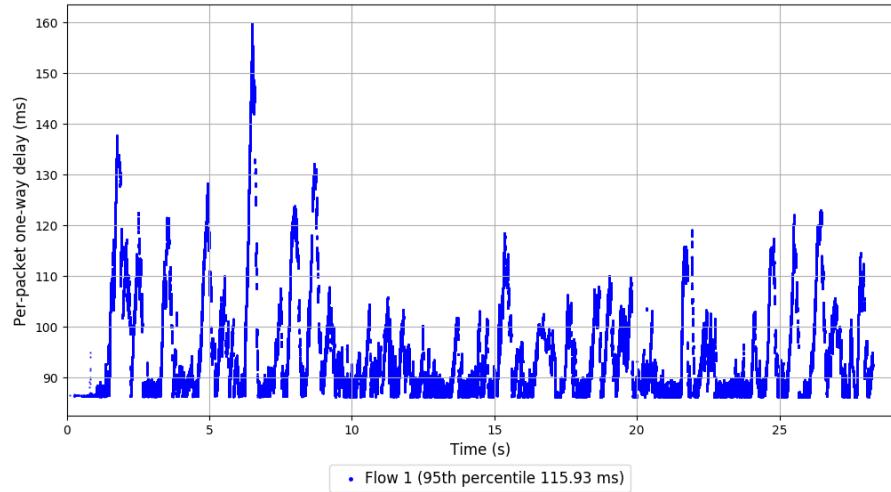
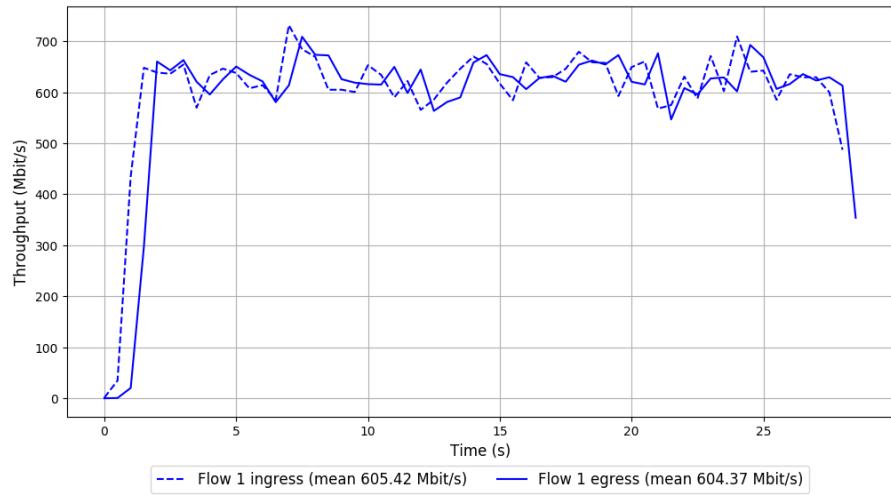


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-03-18 18:04:22
End at: 2019-03-18 18:04:52
Local clock offset: 15.284 ms
Remote clock offset: 16.459 ms

# Below is generated by plot.py at 2019-03-18 21:25:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 604.37 Mbit/s
95th percentile per-packet one-way delay: 115.930 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 604.37 Mbit/s
95th percentile per-packet one-way delay: 115.930 ms
Loss rate: 0.77%
```

Run 1: Report of Indigo-MusesC3 — Data Link

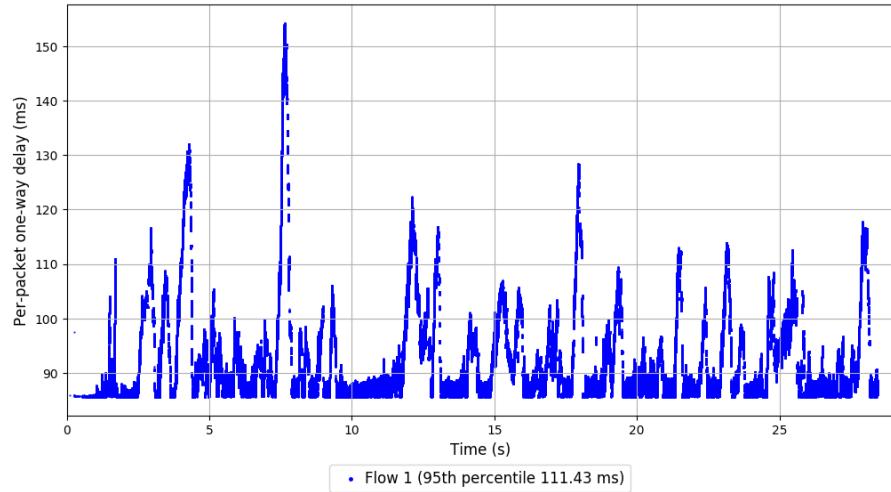
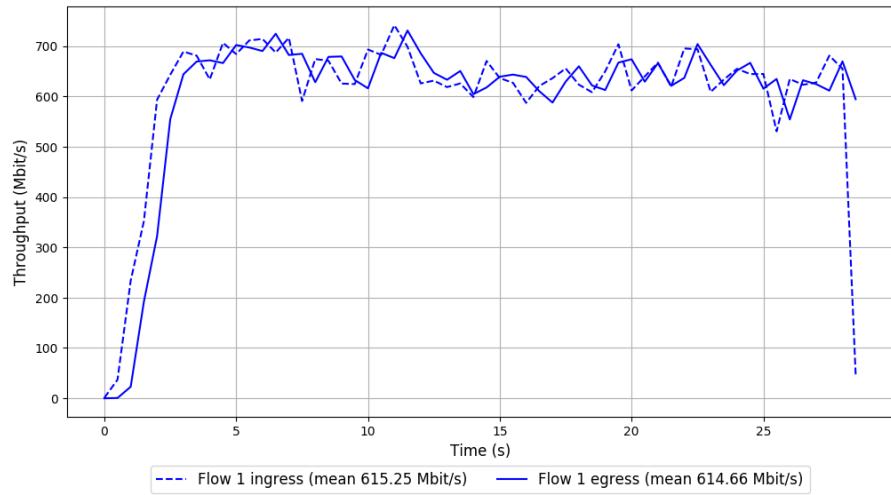


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-18 18:35:46
End at: 2019-03-18 18:36:16
Local clock offset: 21.7 ms
Remote clock offset: 24.087 ms

# Below is generated by plot.py at 2019-03-18 21:25:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 614.66 Mbit/s
95th percentile per-packet one-way delay: 111.431 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 614.66 Mbit/s
95th percentile per-packet one-way delay: 111.431 ms
Loss rate: 0.70%
```

Run 2: Report of Indigo-MusesC3 — Data Link

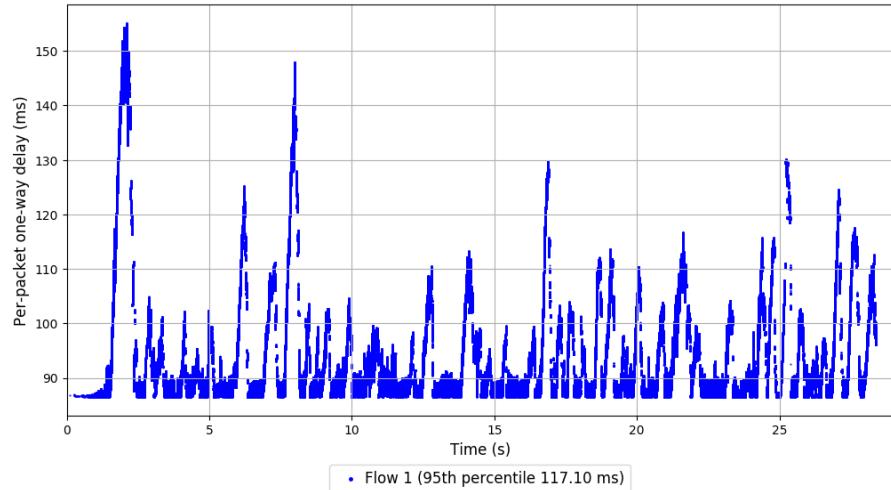
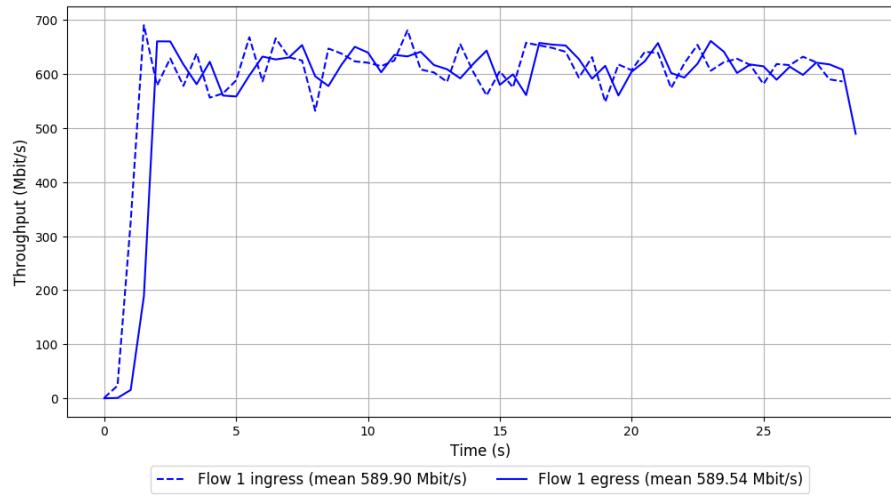


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-18 19:07:13
End at: 2019-03-18 19:07:43
Local clock offset: 16.183 ms
Remote clock offset: 17.564 ms

# Below is generated by plot.py at 2019-03-18 21:28:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 589.54 Mbit/s
95th percentile per-packet one-way delay: 117.096 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 589.54 Mbit/s
95th percentile per-packet one-way delay: 117.096 ms
Loss rate: 0.66%
```

Run 3: Report of Indigo-MusesC3 — Data Link

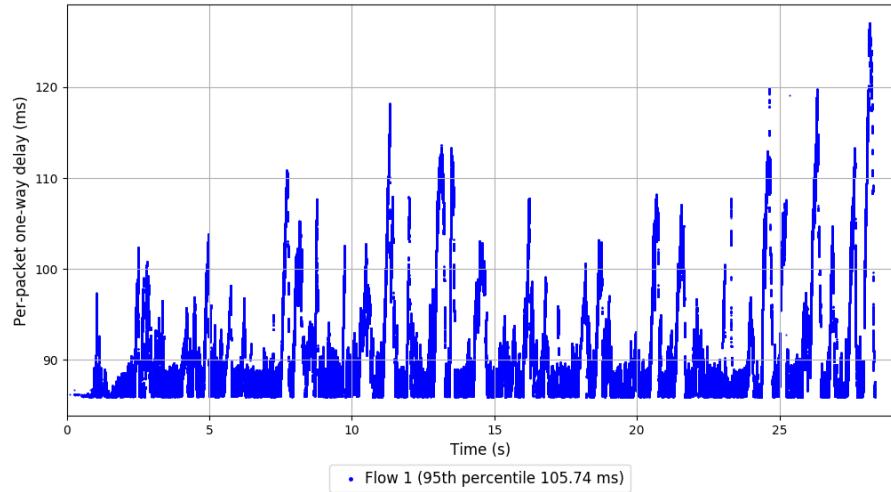
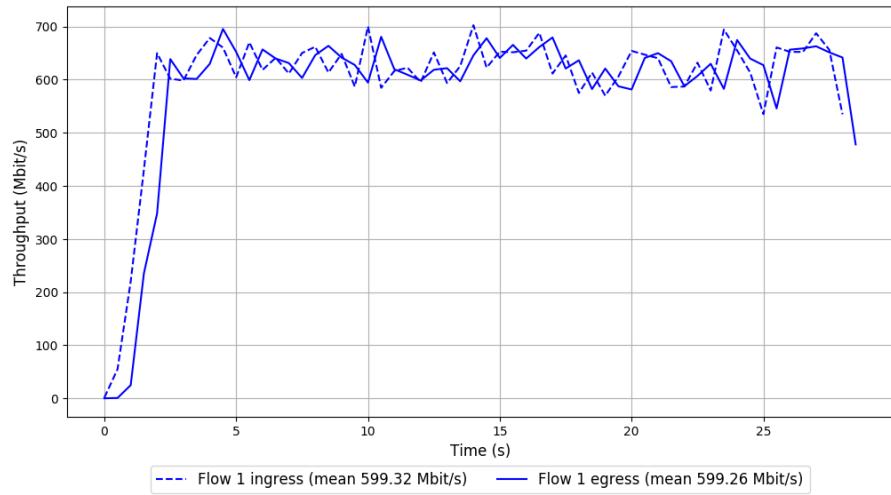


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-18 19:38:53
End at: 2019-03-18 19:39:23
Local clock offset: 8.514 ms
Remote clock offset: 9.611 ms

# Below is generated by plot.py at 2019-03-18 21:28:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 599.26 Mbit/s
95th percentile per-packet one-way delay: 105.738 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 599.26 Mbit/s
95th percentile per-packet one-way delay: 105.738 ms
Loss rate: 0.62%
```

Run 4: Report of Indigo-MusesC3 — Data Link

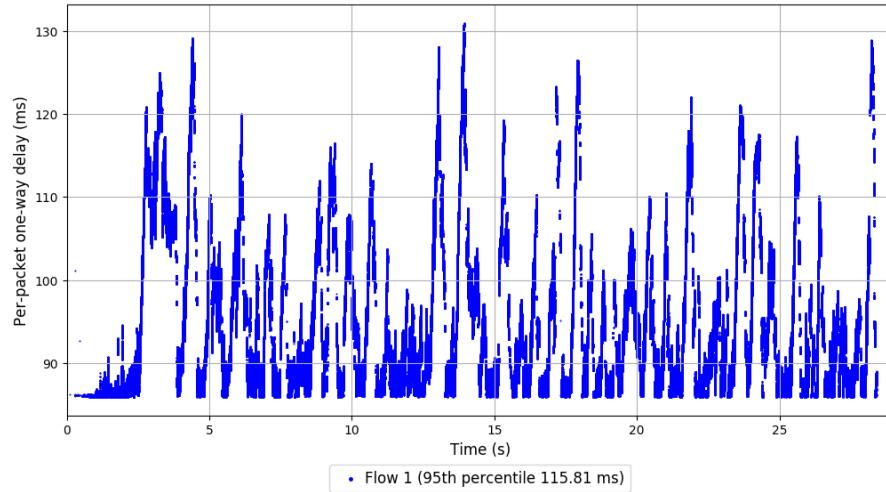
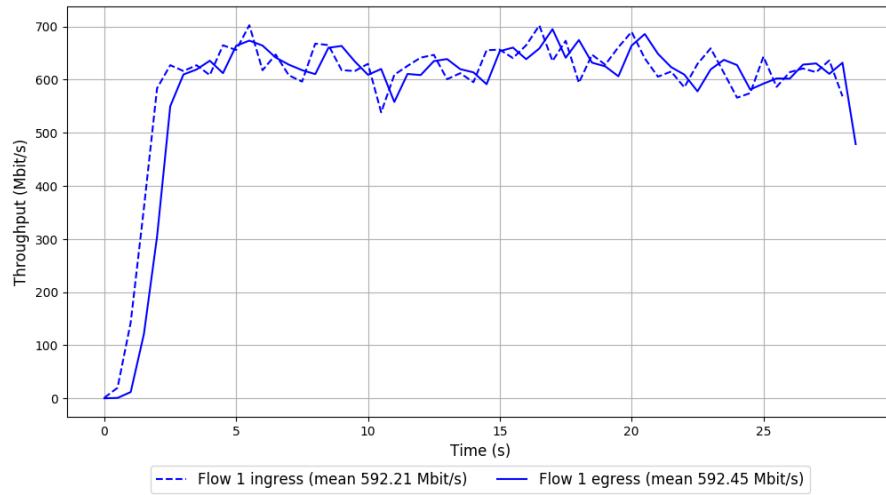


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-18 20:10:13
End at: 2019-03-18 20:10:43
Local clock offset: 4.545 ms
Remote clock offset: 5.373 ms

# Below is generated by plot.py at 2019-03-18 21:29:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 592.45 Mbit/s
95th percentile per-packet one-way delay: 115.814 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 592.45 Mbit/s
95th percentile per-packet one-way delay: 115.814 ms
Loss rate: 0.59%
```

Run 5: Report of Indigo-MusesC3 — Data Link

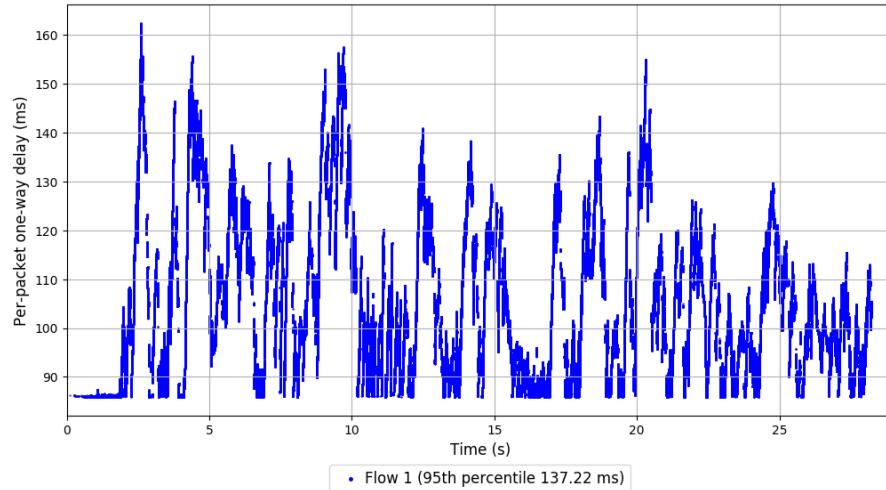
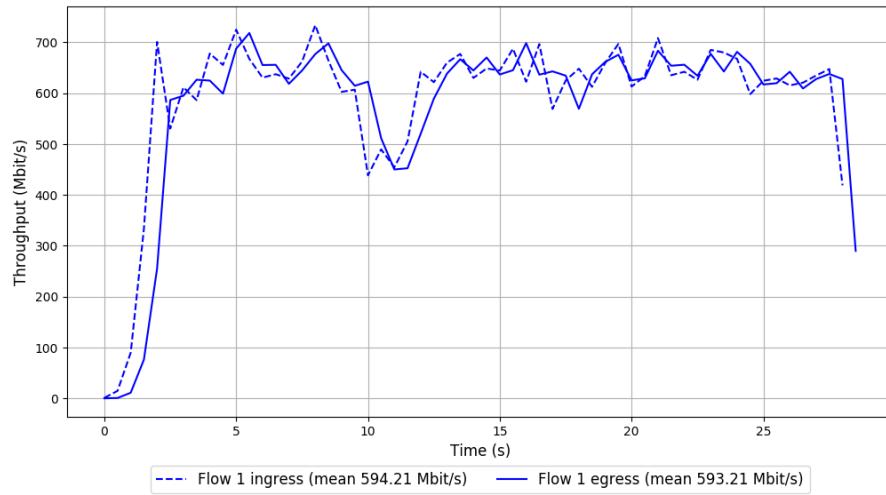


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-03-18 18:15:22
End at: 2019-03-18 18:15:52
Local clock offset: 19.827 ms
Remote clock offset: 21.546 ms

# Below is generated by plot.py at 2019-03-18 21:29:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.21 Mbit/s
95th percentile per-packet one-way delay: 137.216 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 593.21 Mbit/s
95th percentile per-packet one-way delay: 137.216 ms
Loss rate: 0.78%
```

Run 1: Report of Indigo-MusesC5 — Data Link

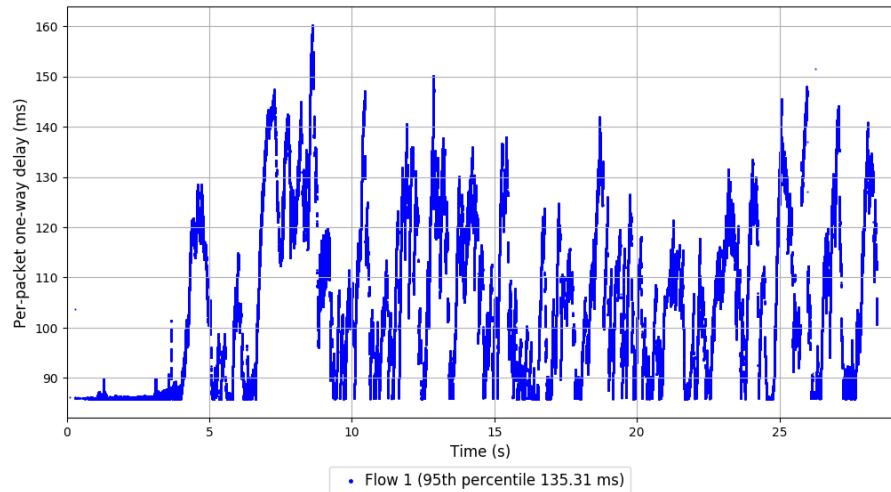
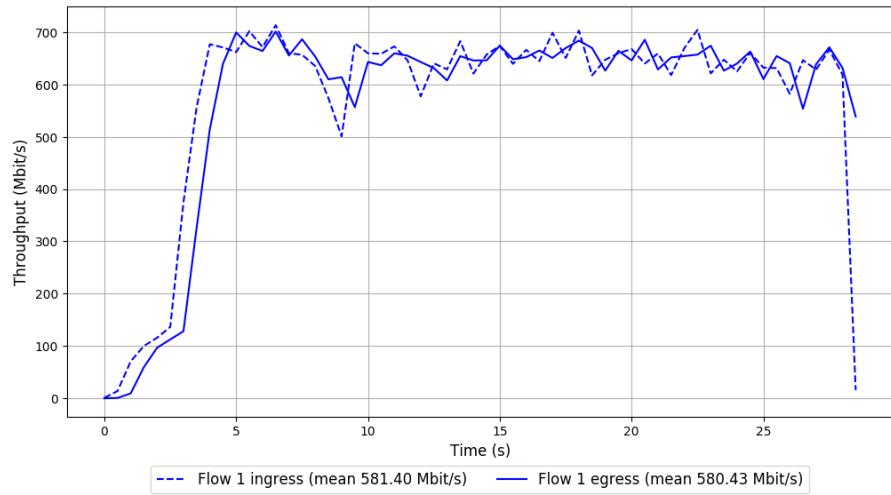


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-18 18:46:48
End at: 2019-03-18 18:47:18
Local clock offset: 31.408 ms
Remote clock offset: 34.498 ms

# Below is generated by plot.py at 2019-03-18 21:33:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 580.43 Mbit/s
95th percentile per-packet one-way delay: 135.312 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 580.43 Mbit/s
95th percentile per-packet one-way delay: 135.312 ms
Loss rate: 0.77%
```

Run 2: Report of Indigo-MusesC5 — Data Link

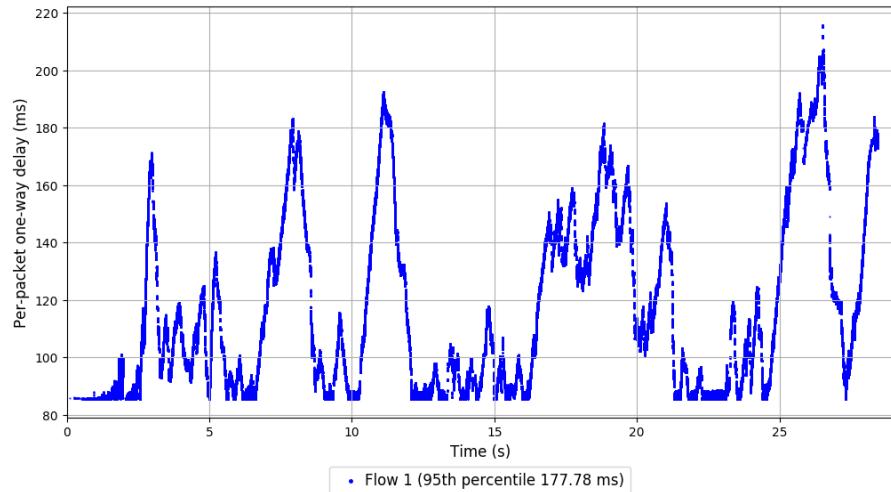
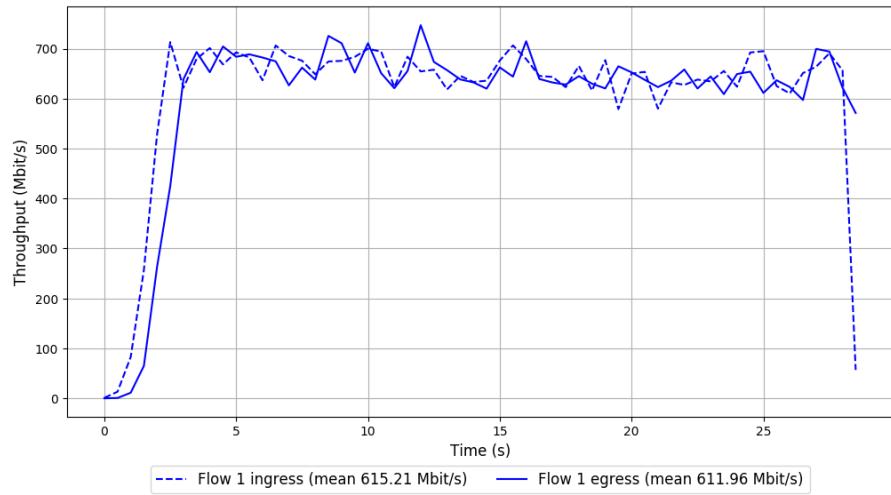


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-18 19:18:08
End at: 2019-03-18 19:18:38
Local clock offset: 15.445 ms
Remote clock offset: 17.395 ms

# Below is generated by plot.py at 2019-03-18 21:34:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 611.96 Mbit/s
95th percentile per-packet one-way delay: 177.784 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 611.96 Mbit/s
95th percentile per-packet one-way delay: 177.784 ms
Loss rate: 1.13%
```

Run 3: Report of Indigo-MusesC5 — Data Link

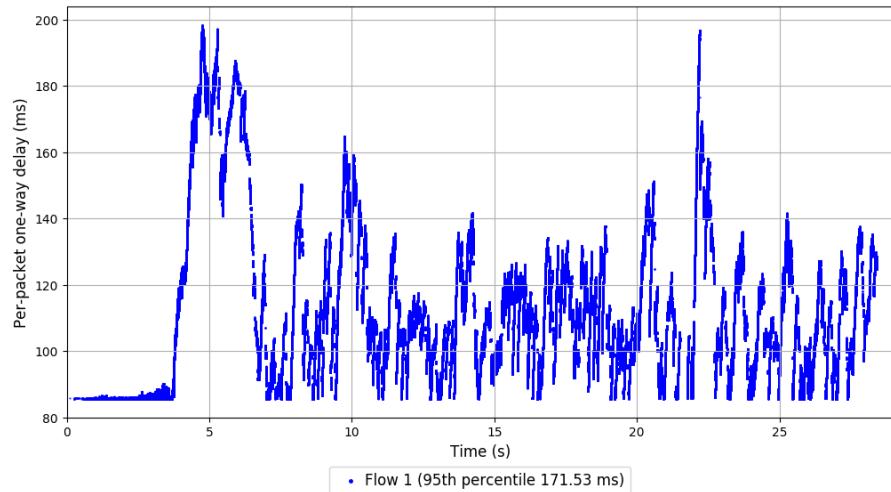
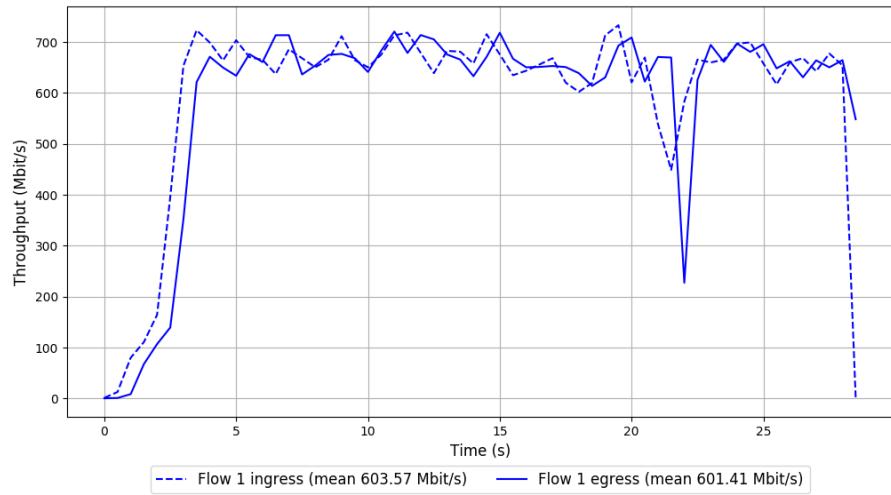


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-18 19:49:44
End at: 2019-03-18 19:50:14
Local clock offset: 6.916 ms
Remote clock offset: 8.123 ms

# Below is generated by plot.py at 2019-03-18 21:35:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 601.41 Mbit/s
95th percentile per-packet one-way delay: 171.527 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 601.41 Mbit/s
95th percentile per-packet one-way delay: 171.527 ms
Loss rate: 0.96%
```

Run 4: Report of Indigo-MusesC5 — Data Link

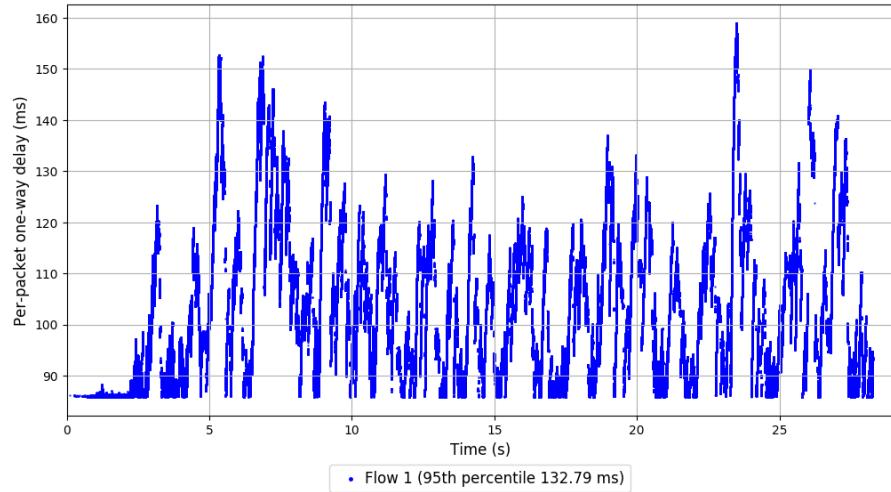
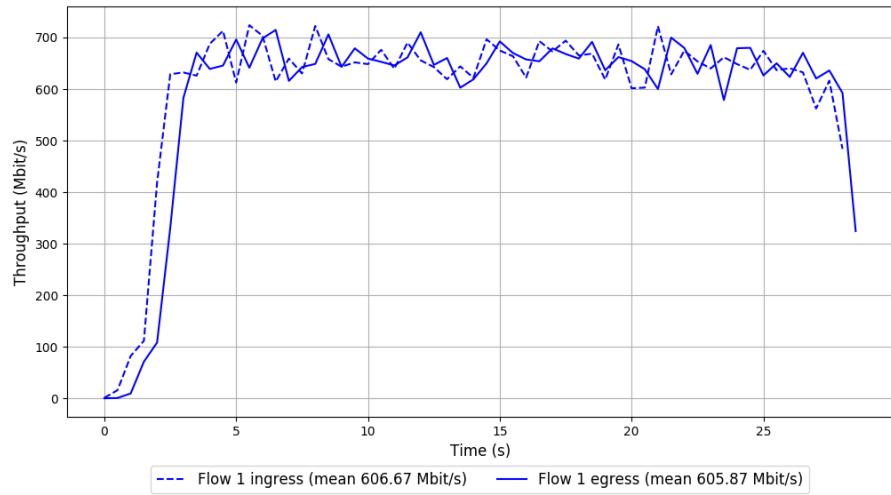


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-18 20:21:06
End at: 2019-03-18 20:21:36
Local clock offset: 2.153 ms
Remote clock offset: 3.706 ms

# Below is generated by plot.py at 2019-03-18 21:37:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 605.87 Mbit/s
95th percentile per-packet one-way delay: 132.793 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 605.87 Mbit/s
95th percentile per-packet one-way delay: 132.793 ms
Loss rate: 0.74%
```

Run 5: Report of Indigo-MusesC5 — Data Link

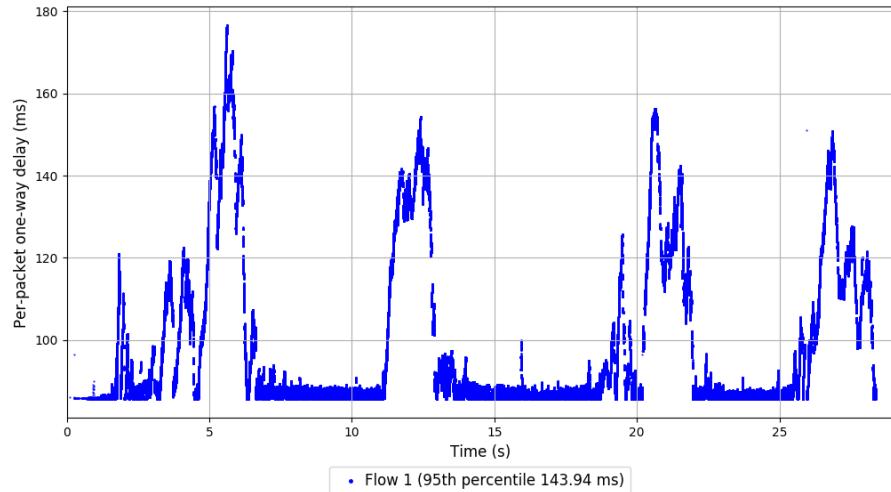
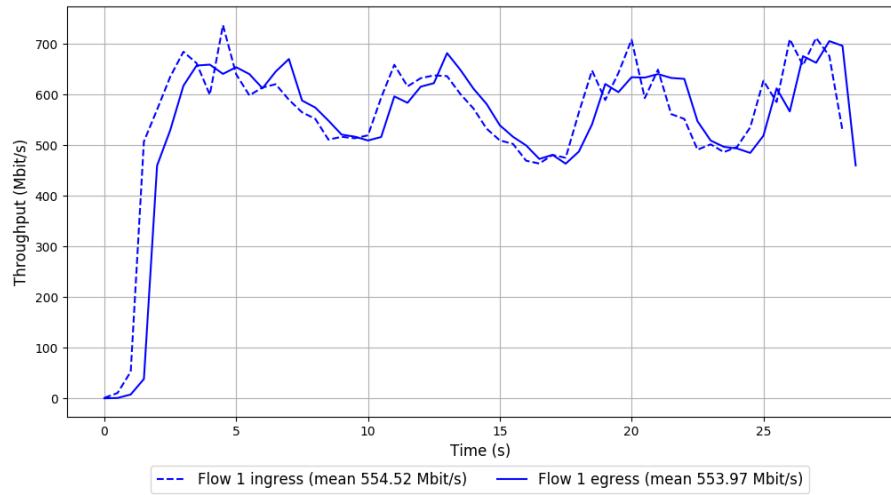


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-03-18 18:06:01
End at: 2019-03-18 18:06:31
Local clock offset: 13.225 ms
Remote clock offset: 14.754 ms

# Below is generated by plot.py at 2019-03-18 21:38:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 553.97 Mbit/s
95th percentile per-packet one-way delay: 143.944 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 553.97 Mbit/s
95th percentile per-packet one-way delay: 143.944 ms
Loss rate: 0.70%
```

Run 1: Report of Indigo-MusesD — Data Link

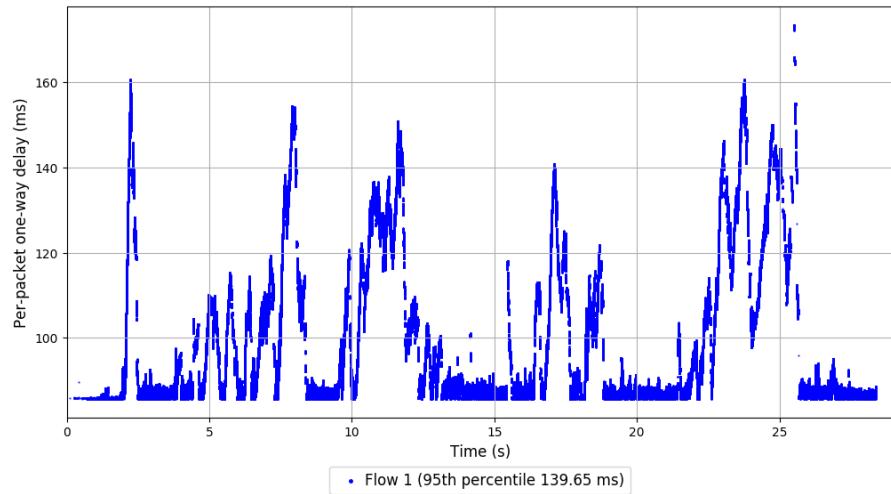
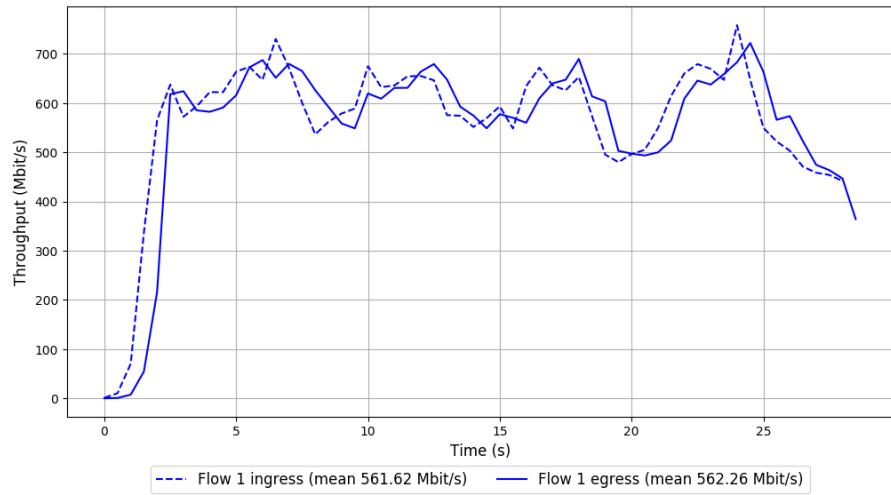


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-18 18:37:26
End at: 2019-03-18 18:37:56
Local clock offset: 22.73 ms
Remote clock offset: 25.261 ms

# Below is generated by plot.py at 2019-03-18 21:38:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 562.26 Mbit/s
95th percentile per-packet one-way delay: 139.652 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 562.26 Mbit/s
95th percentile per-packet one-way delay: 139.652 ms
Loss rate: 0.50%
```

Run 2: Report of Indigo-MusesD — Data Link

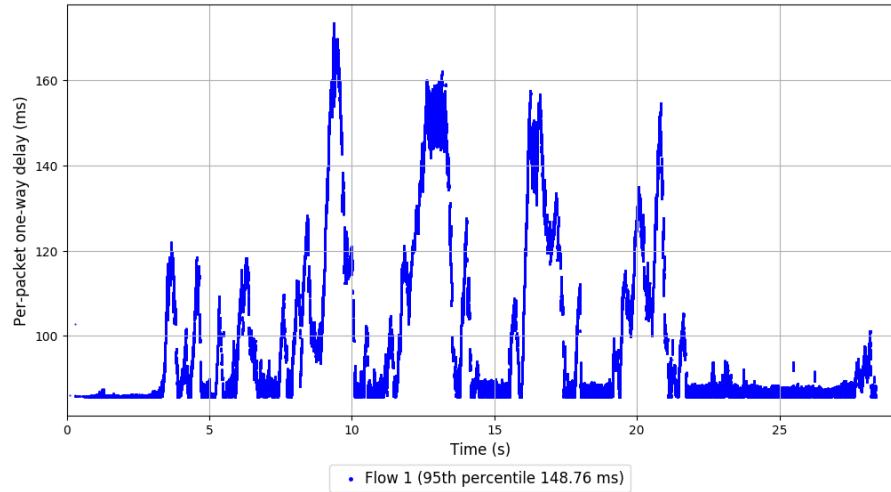
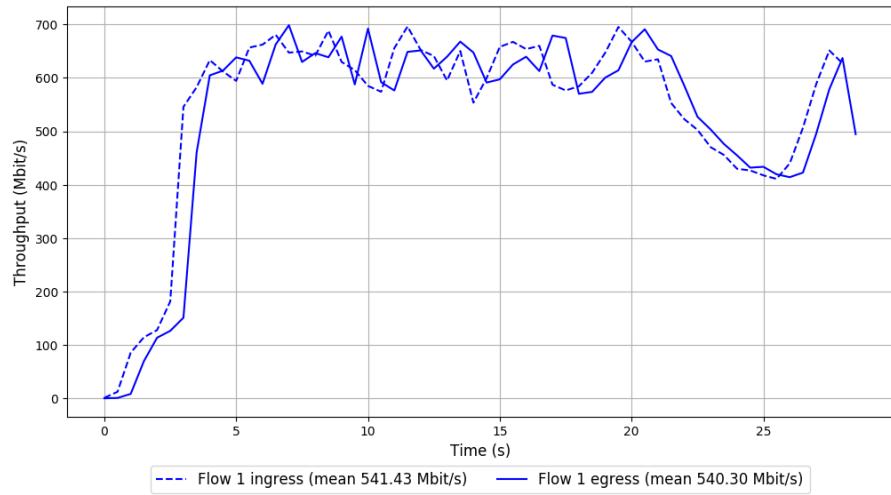


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-18 19:08:51
End at: 2019-03-18 19:09:21
Local clock offset: 15.062 ms
Remote clock offset: 16.912 ms

# Below is generated by plot.py at 2019-03-18 21:38:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.30 Mbit/s
95th percentile per-packet one-way delay: 148.763 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 540.30 Mbit/s
95th percentile per-packet one-way delay: 148.763 ms
Loss rate: 0.82%
```

Run 3: Report of Indigo-MusesD — Data Link

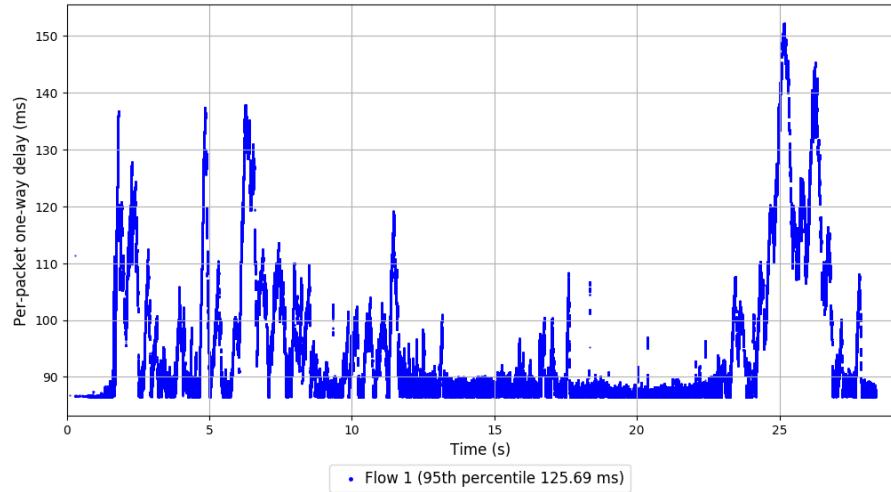
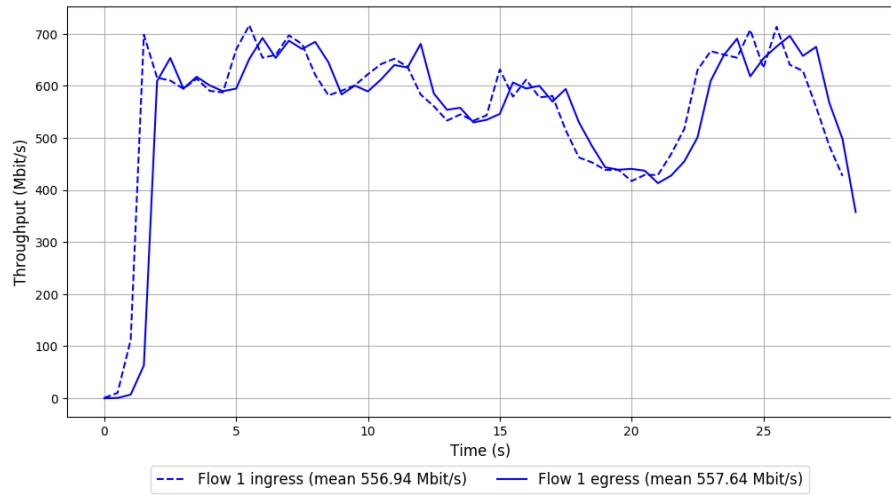


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-18 19:40:32
End at: 2019-03-18 19:41:02
Local clock offset: 8.476 ms
Remote clock offset: 8.954 ms

# Below is generated by plot.py at 2019-03-18 21:39:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.64 Mbit/s
95th percentile per-packet one-way delay: 125.692 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 557.64 Mbit/s
95th percentile per-packet one-way delay: 125.692 ms
Loss rate: 0.48%
```

Run 4: Report of Indigo-MusesD — Data Link

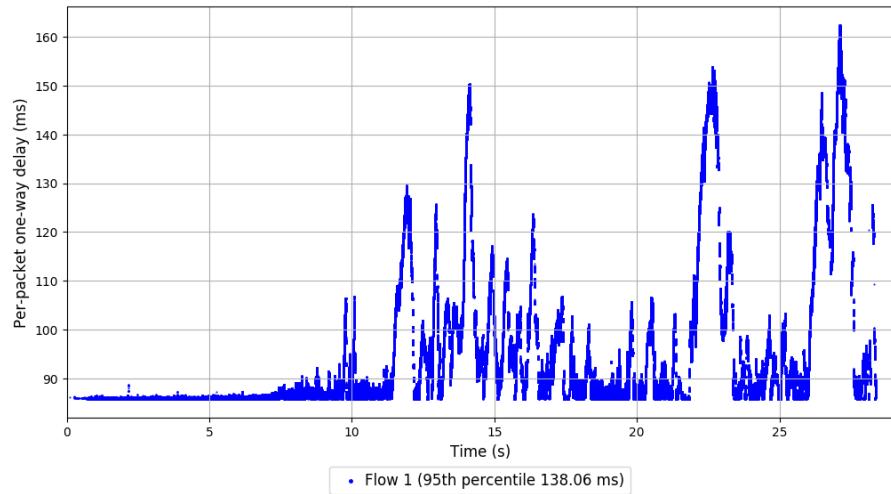
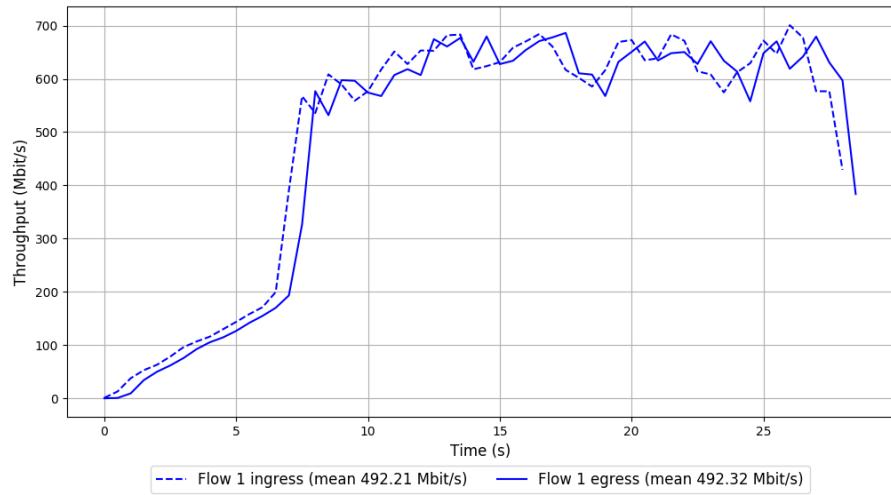


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-18 20:11:51
End at: 2019-03-18 20:12:21
Local clock offset: 3.849 ms
Remote clock offset: 4.86 ms

# Below is generated by plot.py at 2019-03-18 21:42:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 492.32 Mbit/s
95th percentile per-packet one-way delay: 138.060 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 492.32 Mbit/s
95th percentile per-packet one-way delay: 138.060 ms
Loss rate: 0.58%
```

Run 5: Report of Indigo-MusesD — Data Link

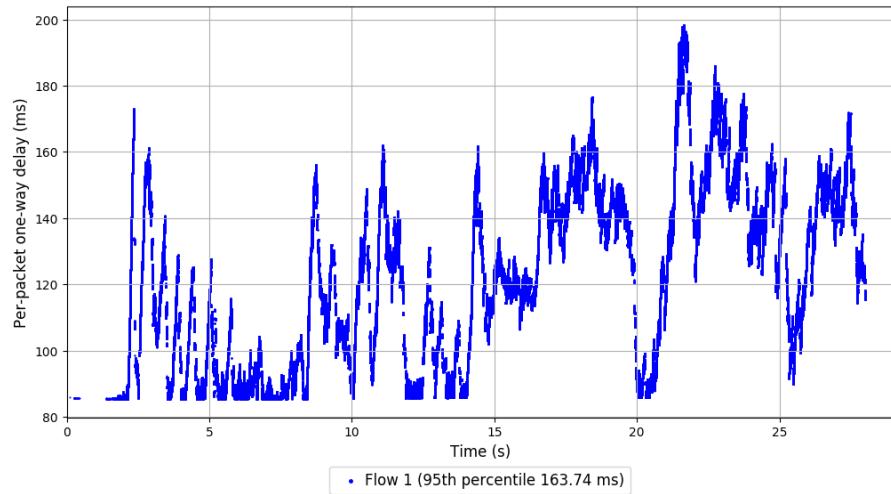
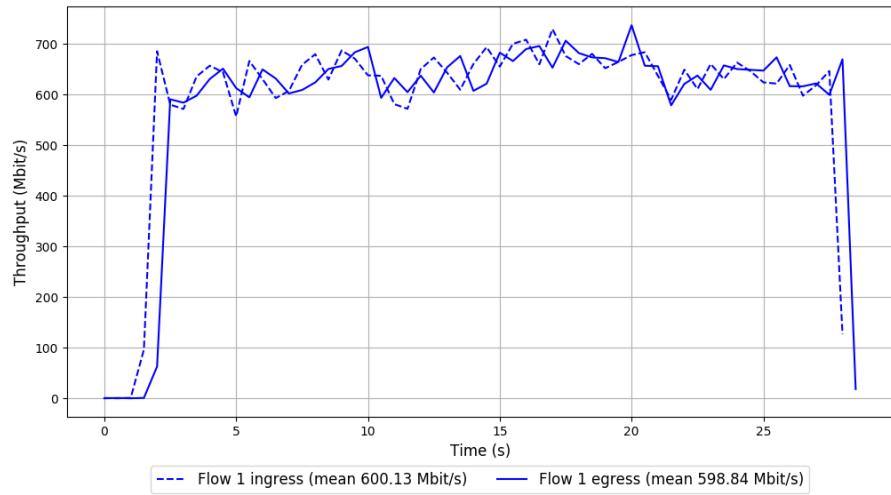


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-03-18 18:02:44
End at: 2019-03-18 18:03:14
Local clock offset: 16.499 ms
Remote clock offset: 18.38 ms

# Below is generated by plot.py at 2019-03-18 21:44:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 598.84 Mbit/s
95th percentile per-packet one-way delay: 163.740 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 598.84 Mbit/s
95th percentile per-packet one-way delay: 163.740 ms
Loss rate: 0.83%
```

Run 1: Report of Indigo-MusesT — Data Link

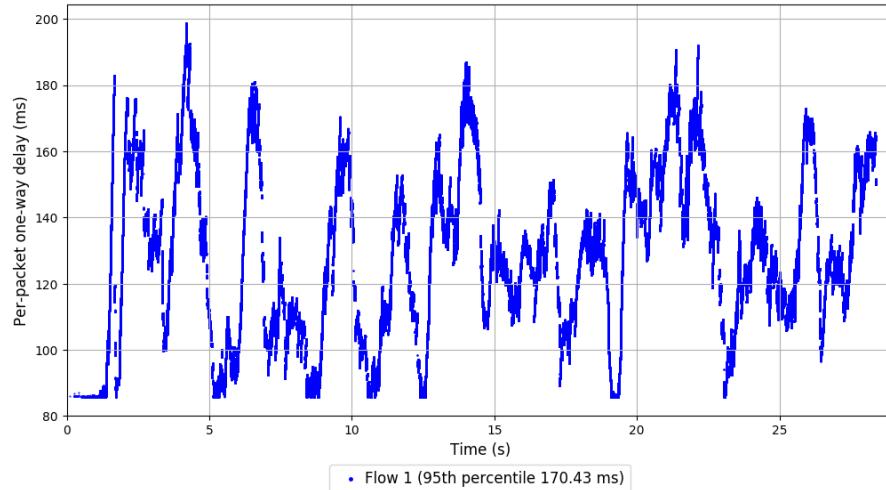
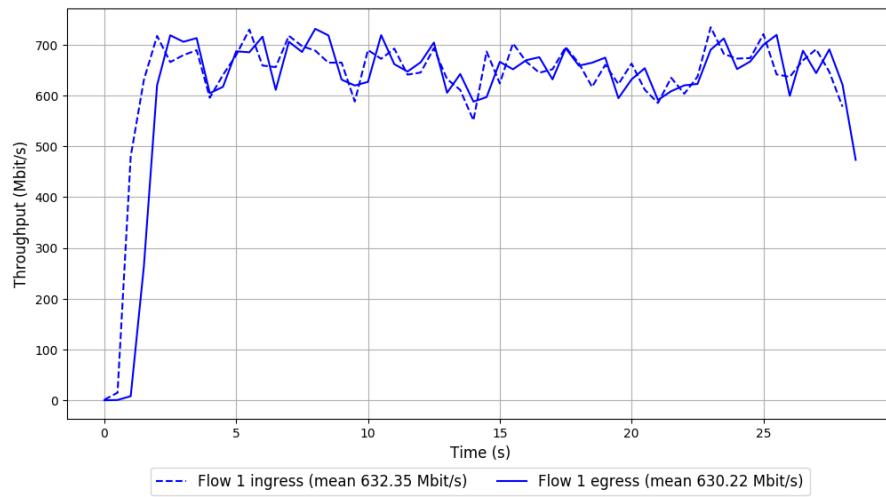


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-18 18:34:07
End at: 2019-03-18 18:34:37
Local clock offset: 20.754 ms
Remote clock offset: 22.963 ms

# Below is generated by plot.py at 2019-03-18 21:47:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 630.22 Mbit/s
95th percentile per-packet one-way delay: 170.431 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 630.22 Mbit/s
95th percentile per-packet one-way delay: 170.431 ms
Loss rate: 0.94%
```

Run 2: Report of Indigo-MusesT — Data Link

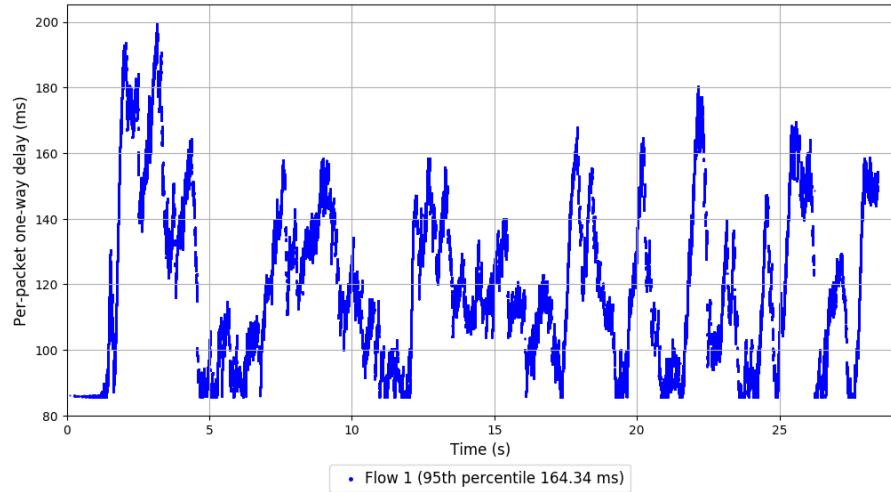
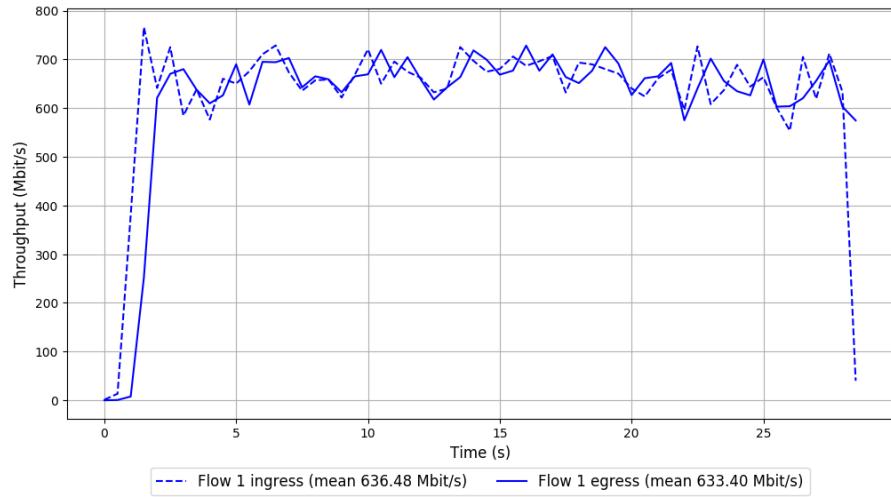


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-18 19:05:33
End at: 2019-03-18 19:06:03
Local clock offset: 16.581 ms
Remote clock offset: 18.585 ms

# Below is generated by plot.py at 2019-03-18 21:47:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 633.40 Mbit/s
95th percentile per-packet one-way delay: 164.341 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 633.40 Mbit/s
95th percentile per-packet one-way delay: 164.341 ms
Loss rate: 1.08%
```

Run 3: Report of Indigo-MusesT — Data Link

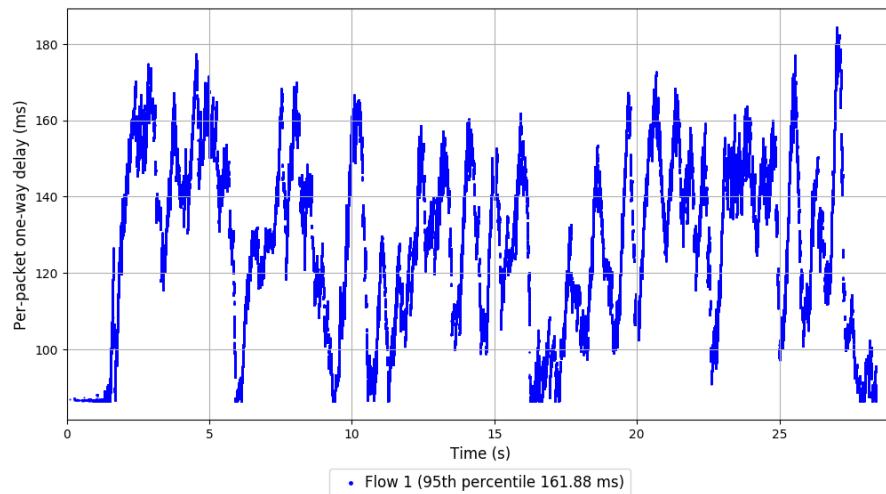
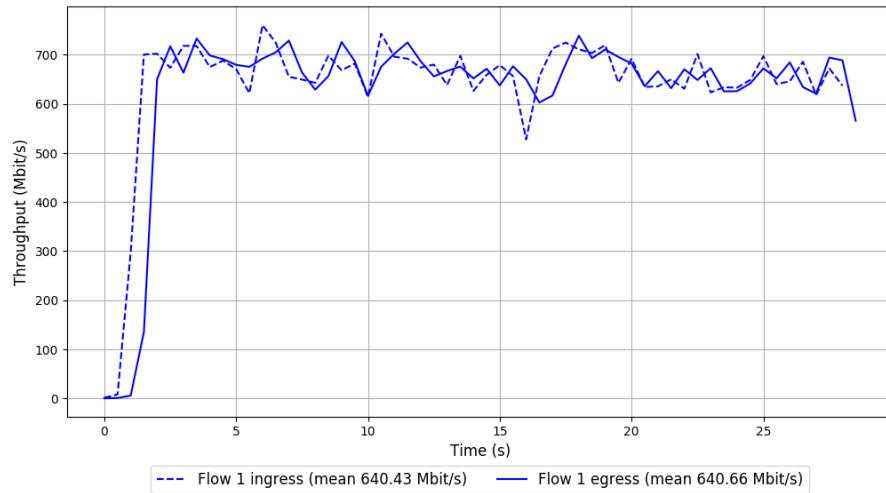


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-18 19:37:12
End at: 2019-03-18 19:37:42
Local clock offset: 9.999 ms
Remote clock offset: 10.524 ms

# Below is generated by plot.py at 2019-03-18 21:49:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 640.66 Mbit/s
95th percentile per-packet one-way delay: 161.879 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 640.66 Mbit/s
95th percentile per-packet one-way delay: 161.879 ms
Loss rate: 0.57%
```

Run 4: Report of Indigo-MusesT — Data Link

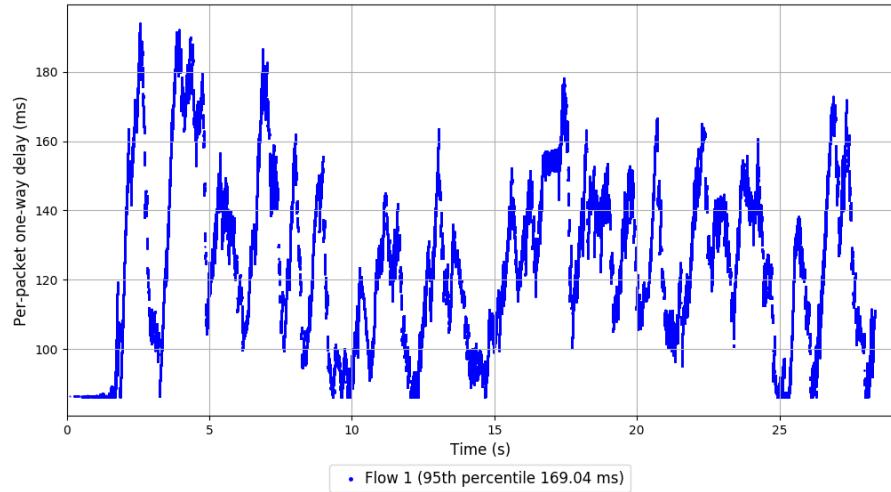
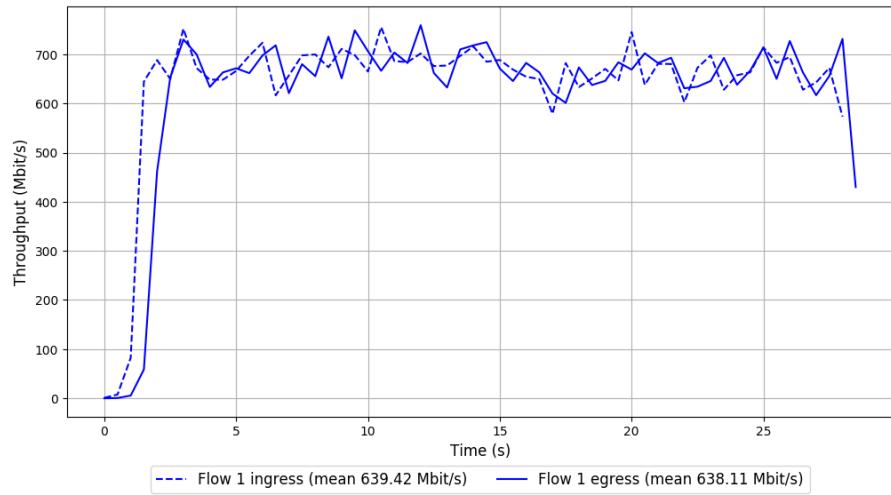


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-18 20:08:33
End at: 2019-03-18 20:09:03
Local clock offset: 5.158 ms
Remote clock offset: 6.062 ms

# Below is generated by plot.py at 2019-03-18 21:50:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 638.11 Mbit/s
95th percentile per-packet one-way delay: 169.038 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 638.11 Mbit/s
95th percentile per-packet one-way delay: 169.038 ms
Loss rate: 0.82%
```

Run 5: Report of Indigo-MusesT — Data Link

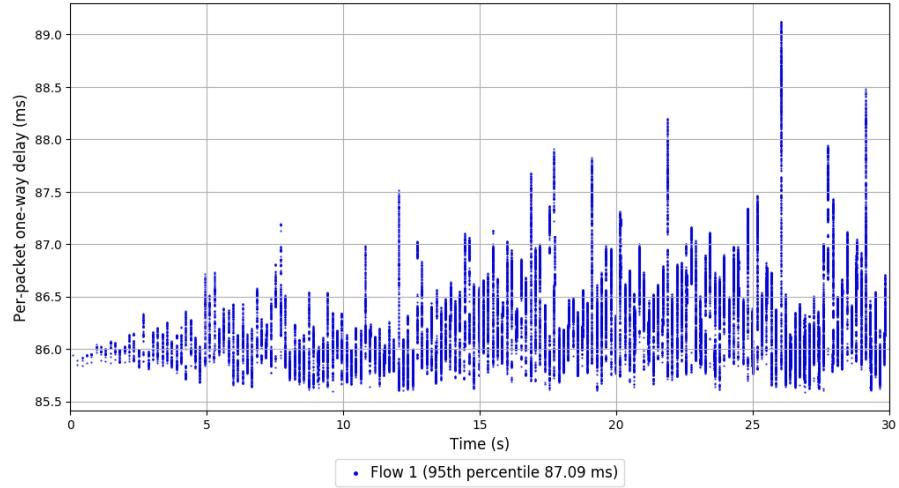
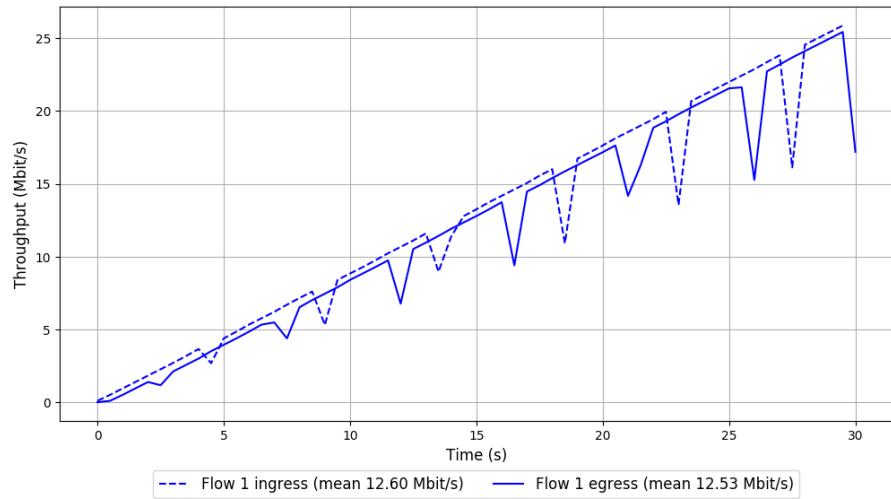


```
Run 1: Statistics of LEDBAT

Start at: 2019-03-18 17:57:16
End at: 2019-03-18 17:57:46
Local clock offset: 8.7 ms
Remote clock offset: 9.656 ms

# Below is generated by plot.py at 2019-03-18 21:50:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 87.086 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 87.086 ms
Loss rate: 1.15%
```

Run 1: Report of LEDBAT — Data Link

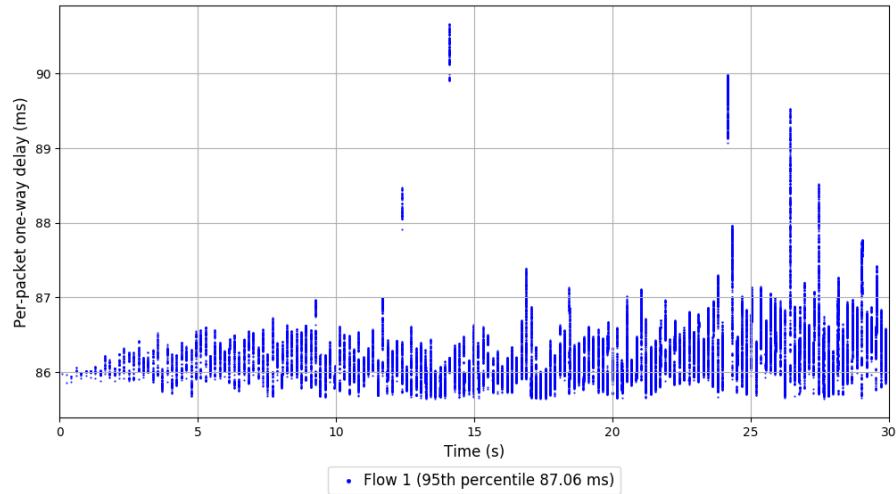
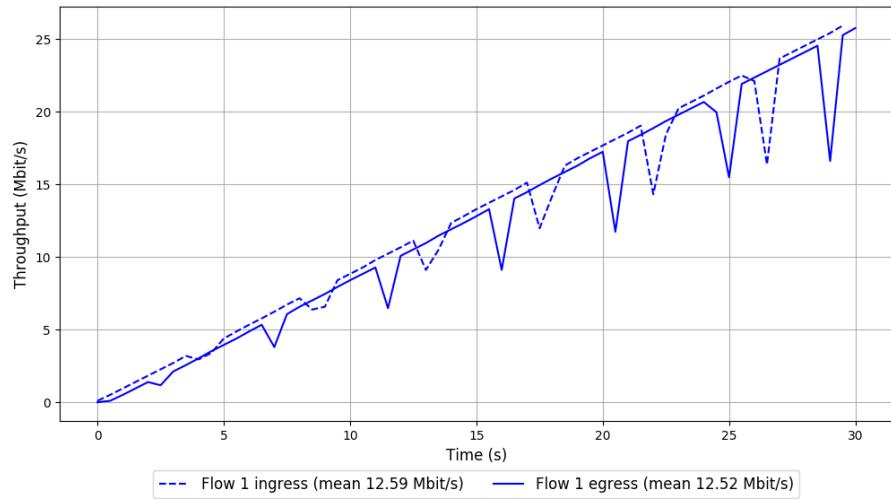


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-18 18:28:42
End at: 2019-03-18 18:29:12
Local clock offset: 18.899 ms
Remote clock offset: 21.333 ms

# Below is generated by plot.py at 2019-03-18 21:50:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.52 Mbit/s
95th percentile per-packet one-way delay: 87.056 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.52 Mbit/s
95th percentile per-packet one-way delay: 87.056 ms
Loss rate: 1.15%
```

Run 2: Report of LEDBAT — Data Link

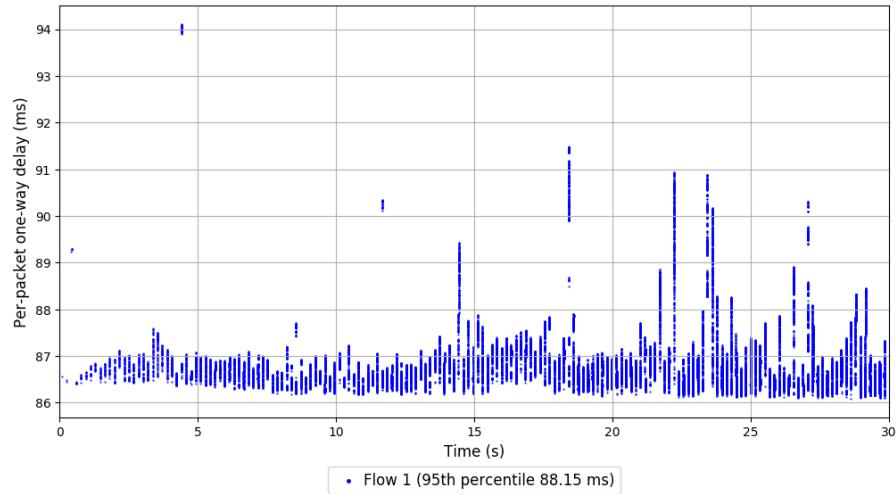
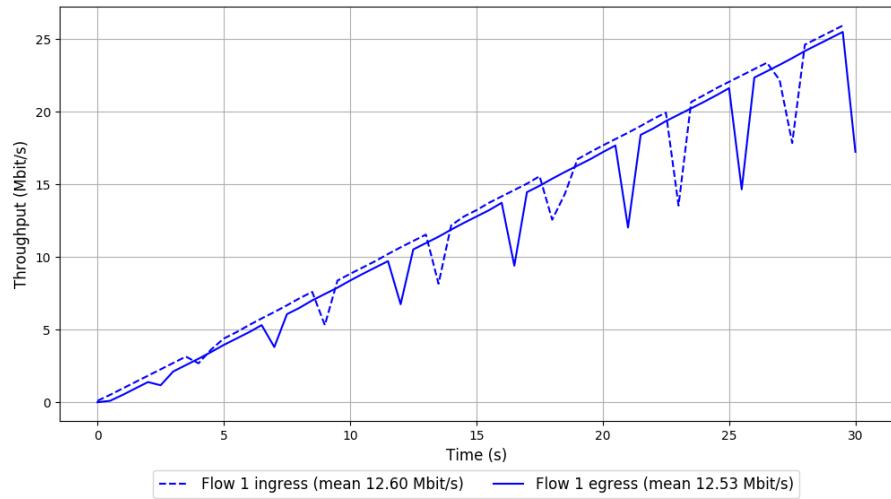


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-18 19:00:06
End at: 2019-03-18 19:00:36
Local clock offset: 23.496 ms
Remote clock offset: 25.824 ms

# Below is generated by plot.py at 2019-03-18 21:50:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 88.148 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 88.148 ms
Loss rate: 1.15%
```

Run 3: Report of LEDBAT — Data Link

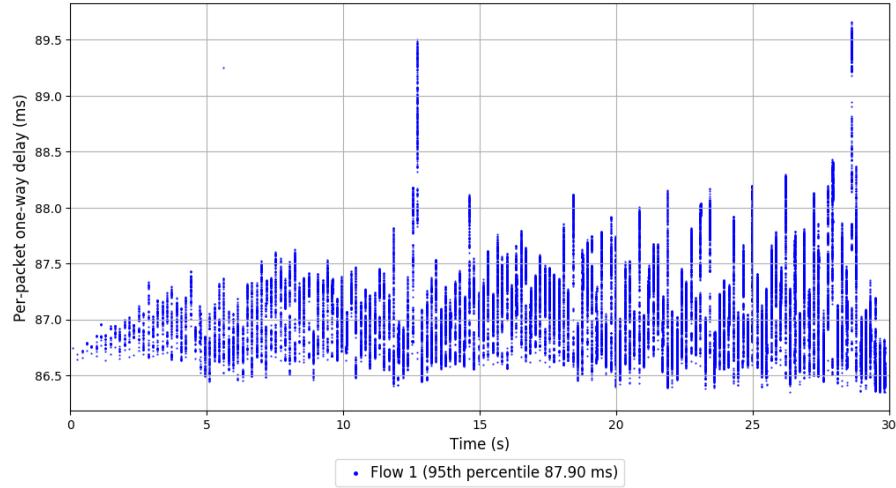
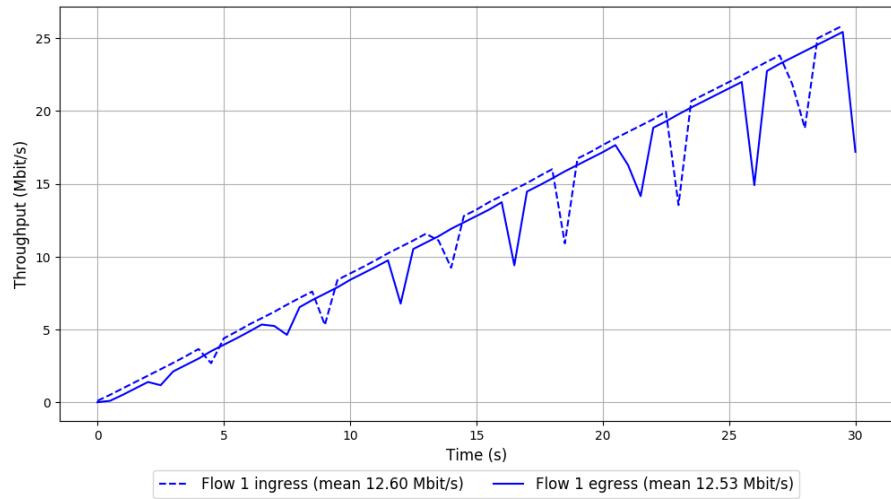


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-18 19:31:44
End at: 2019-03-18 19:32:14
Local clock offset: 15.017 ms
Remote clock offset: 16.166 ms

# Below is generated by plot.py at 2019-03-18 21:50:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 87.899 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 87.899 ms
Loss rate: 1.15%
```

Run 4: Report of LEDBAT — Data Link

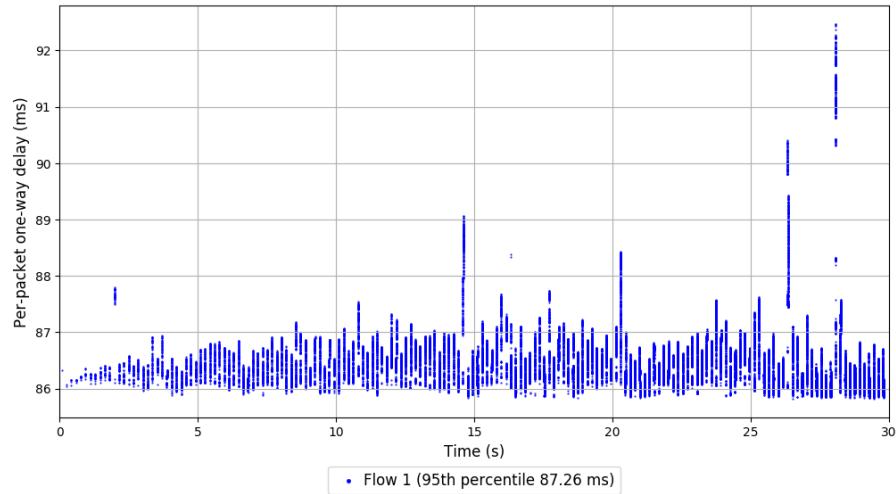
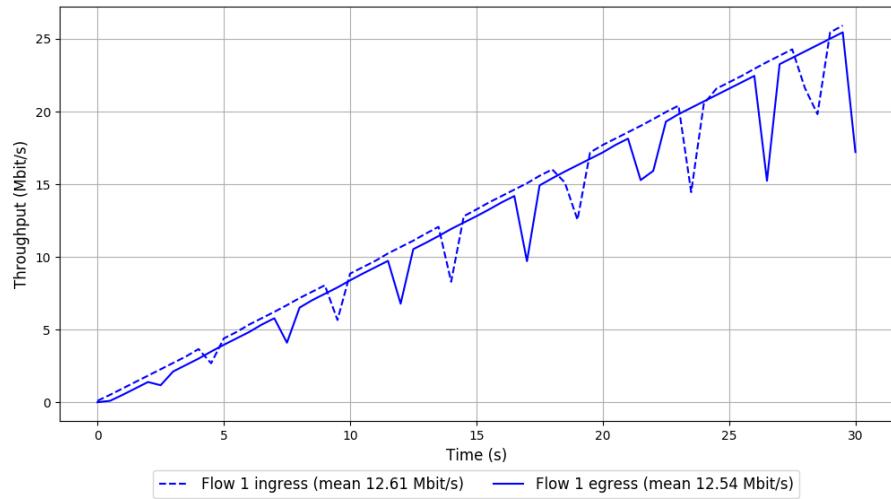


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-18 20:03:01
End at: 2019-03-18 20:03:31
Local clock offset: 9.238 ms
Remote clock offset: 10.115 ms

# Below is generated by plot.py at 2019-03-18 21:50:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 87.256 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 87.256 ms
Loss rate: 1.15%
```

Run 5: Report of LEDBAT — Data Link

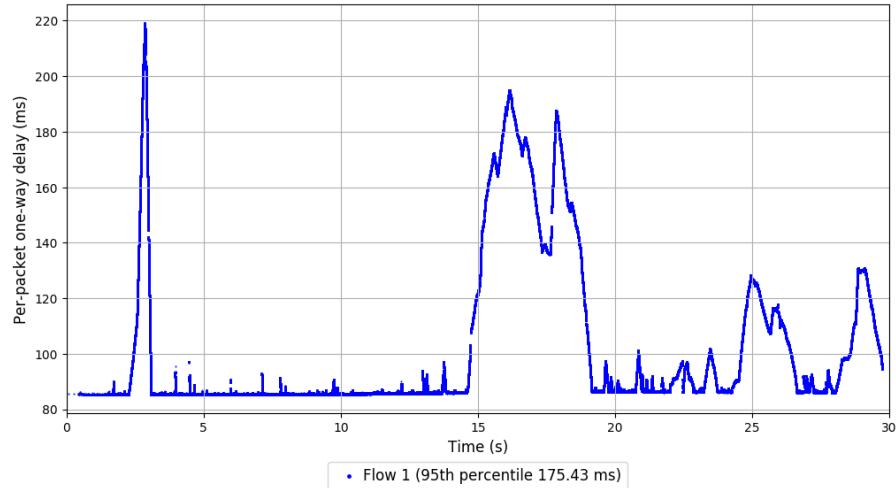
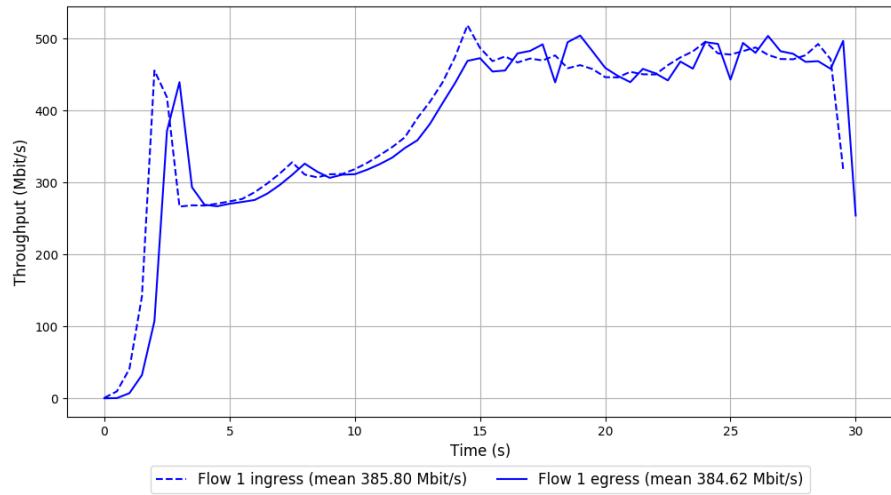


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-03-18 17:54:12
End at: 2019-03-18 17:54:42
Local clock offset: 10.406 ms
Remote clock offset: 11.619 ms

# Below is generated by plot.py at 2019-03-18 21:53:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.62 Mbit/s
95th percentile per-packet one-way delay: 175.428 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 384.62 Mbit/s
95th percentile per-packet one-way delay: 175.428 ms
Loss rate: 0.88%
```

Run 1: Report of PCC-Allegro — Data Link

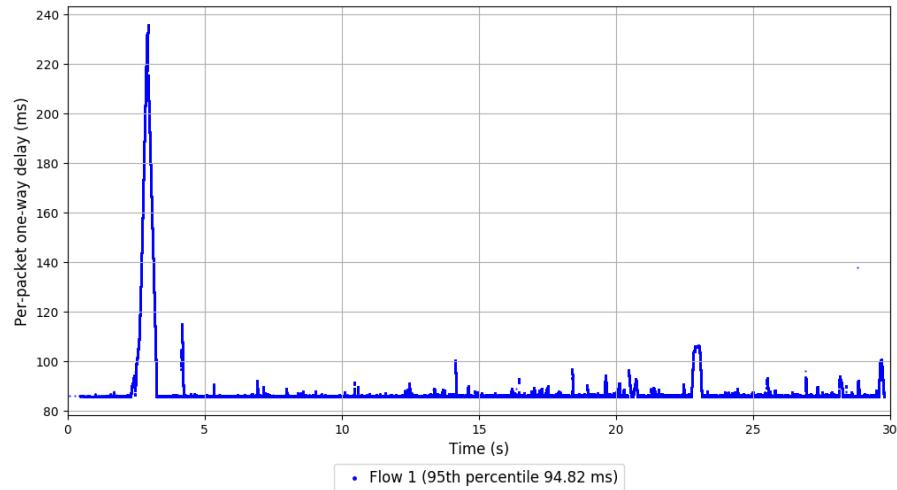
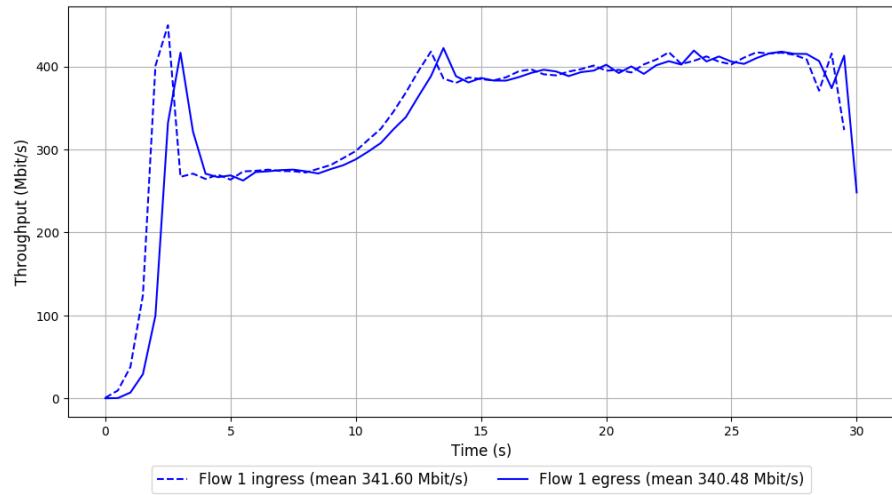


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-18 18:25:39
End at: 2019-03-18 18:26:09
Local clock offset: 20.046 ms
Remote clock offset: 22.169 ms

# Below is generated by plot.py at 2019-03-18 21:53:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.48 Mbit/s
95th percentile per-packet one-way delay: 94.824 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 340.48 Mbit/s
95th percentile per-packet one-way delay: 94.824 ms
Loss rate: 0.91%
```

Run 2: Report of PCC-Allegro — Data Link

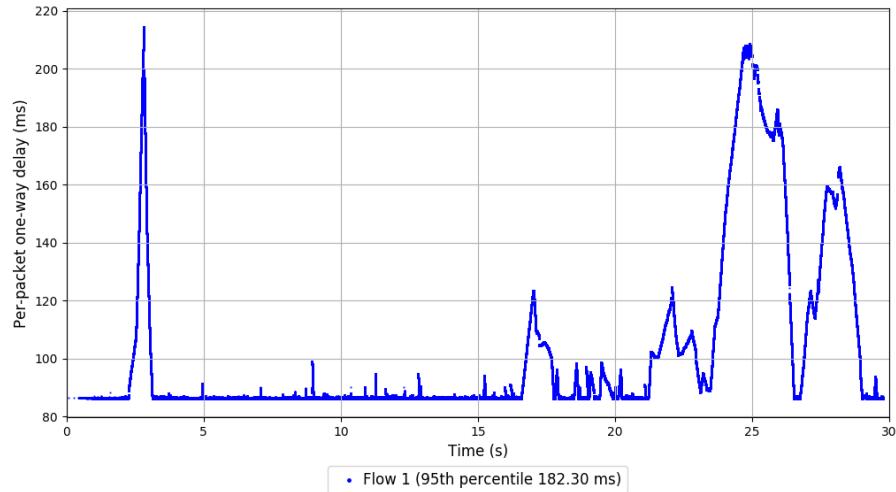
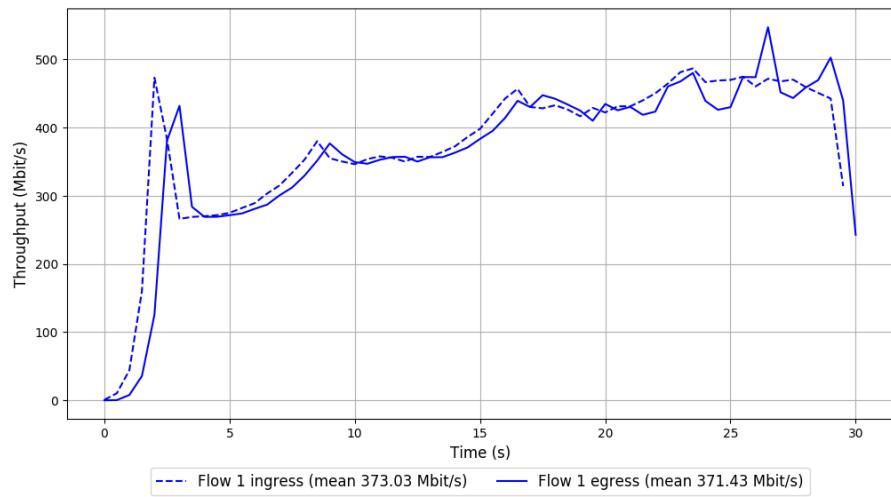


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-18 18:56:57
End at: 2019-03-18 18:57:27
Local clock offset: 30.504 ms
Remote clock offset: 33.91 ms

# Below is generated by plot.py at 2019-03-18 21:54:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 371.43 Mbit/s
95th percentile per-packet one-way delay: 182.298 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 371.43 Mbit/s
95th percentile per-packet one-way delay: 182.298 ms
Loss rate: 1.00%
```

Run 3: Report of PCC-Allegro — Data Link

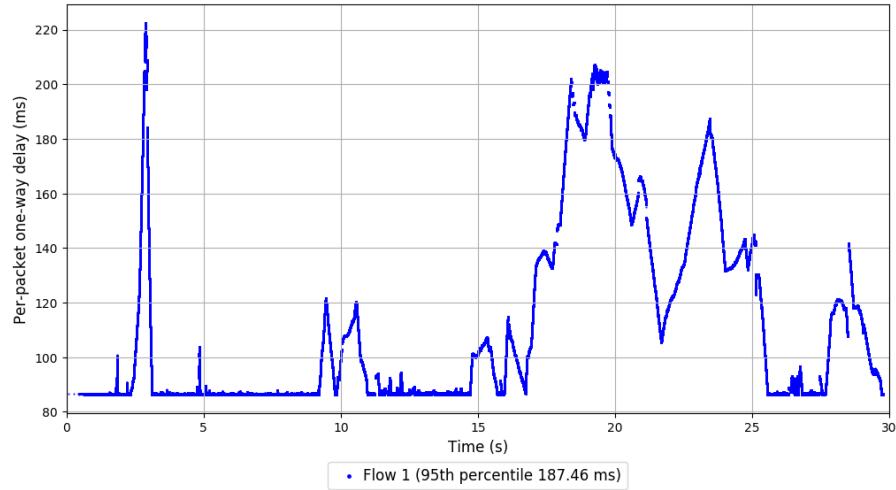
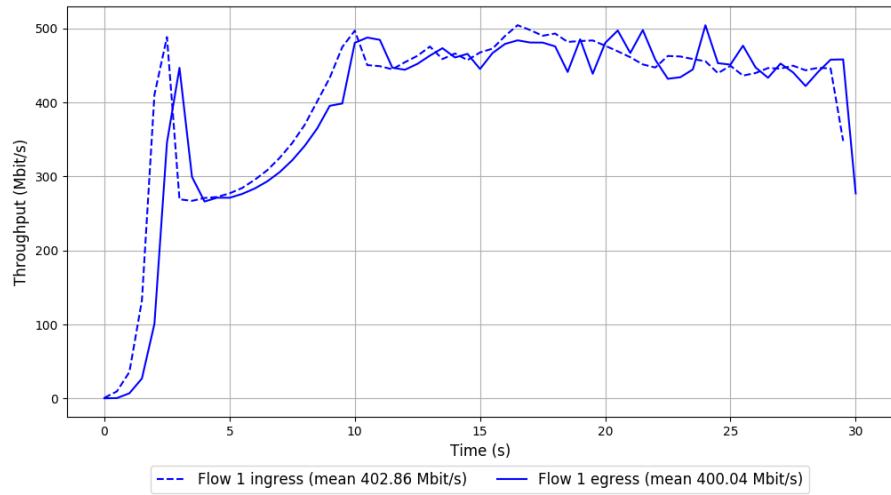


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-18 19:28:42
End at: 2019-03-18 19:29:12
Local clock offset: 19.753 ms
Remote clock offset: 21.614 ms

# Below is generated by plot.py at 2019-03-18 21:59:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 400.04 Mbit/s
95th percentile per-packet one-way delay: 187.455 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 400.04 Mbit/s
95th percentile per-packet one-way delay: 187.455 ms
Loss rate: 1.28%
```

Run 4: Report of PCC-Allegro — Data Link

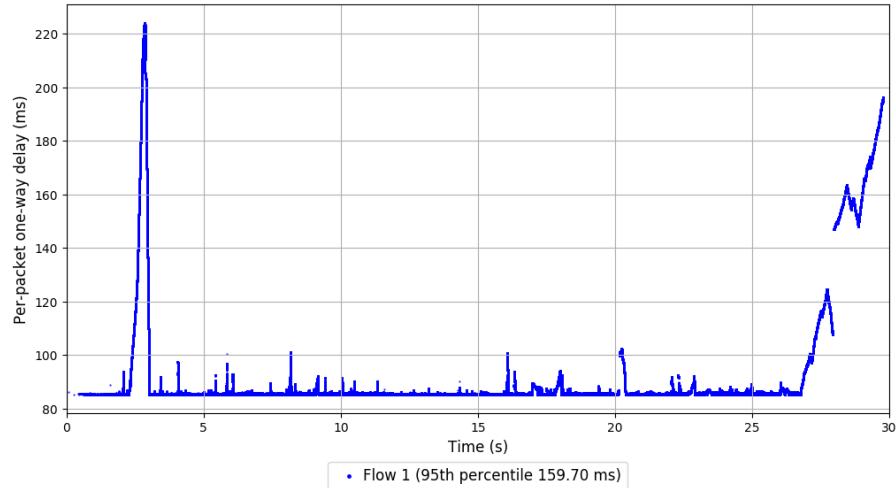
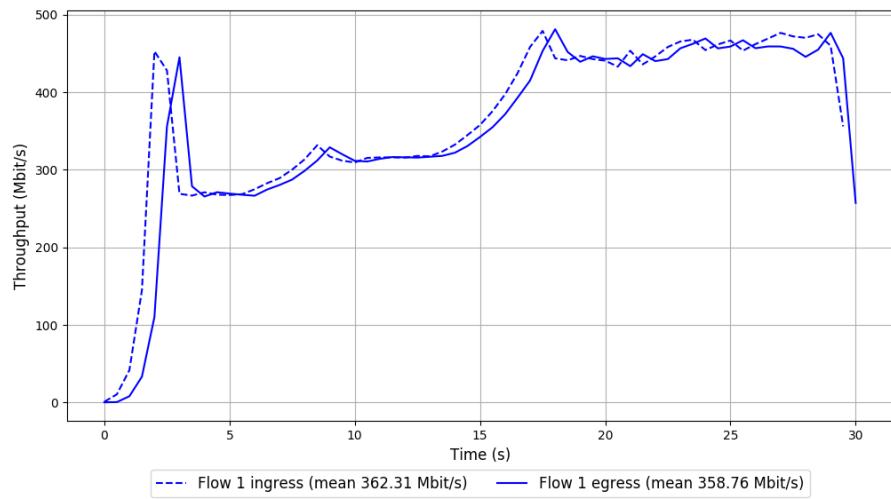


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-18 20:00:00
End at: 2019-03-18 20:00:30
Local clock offset: 8.487 ms
Remote clock offset: 9.876 ms

# Below is generated by plot.py at 2019-03-18 22:00:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.76 Mbit/s
95th percentile per-packet one-way delay: 159.696 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 358.76 Mbit/s
95th percentile per-packet one-way delay: 159.696 ms
Loss rate: 1.56%
```

Run 5: Report of PCC-Allegro — Data Link

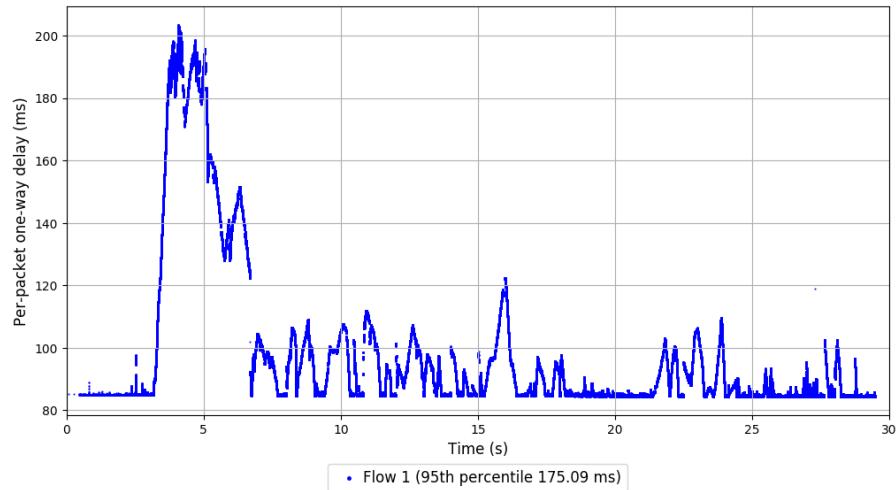
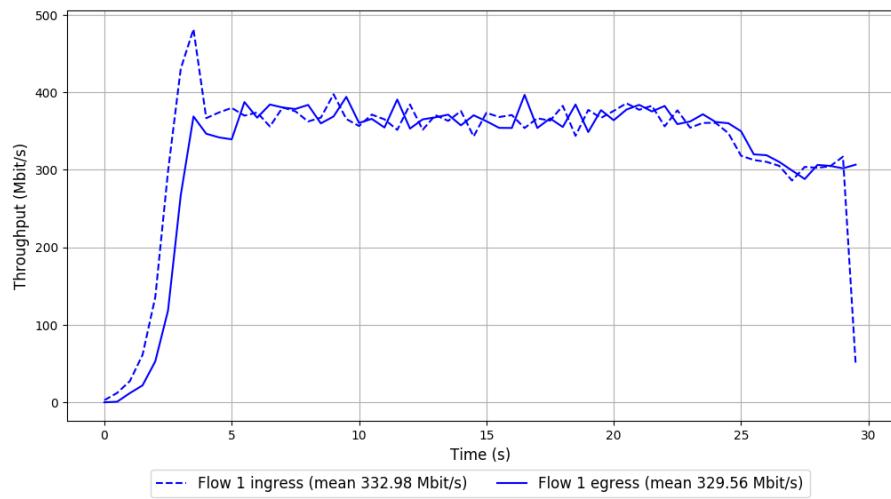


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-03-18 17:50:13
End at: 2019-03-18 17:50:43
Local clock offset: 6.182 ms
Remote clock offset: 8.481 ms

# Below is generated by plot.py at 2019-03-18 22:00:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 329.56 Mbit/s
95th percentile per-packet one-way delay: 175.089 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 329.56 Mbit/s
95th percentile per-packet one-way delay: 175.089 ms
Loss rate: 1.61%
```

Run 1: Report of PCC-Expr — Data Link

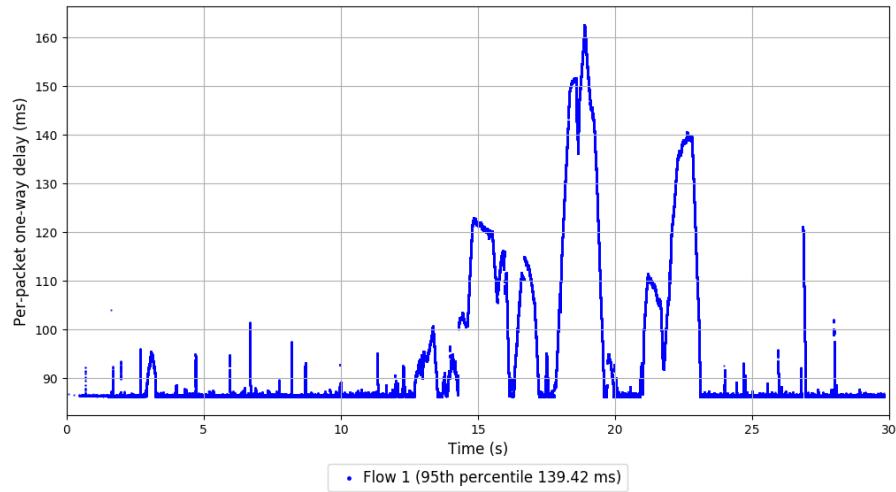
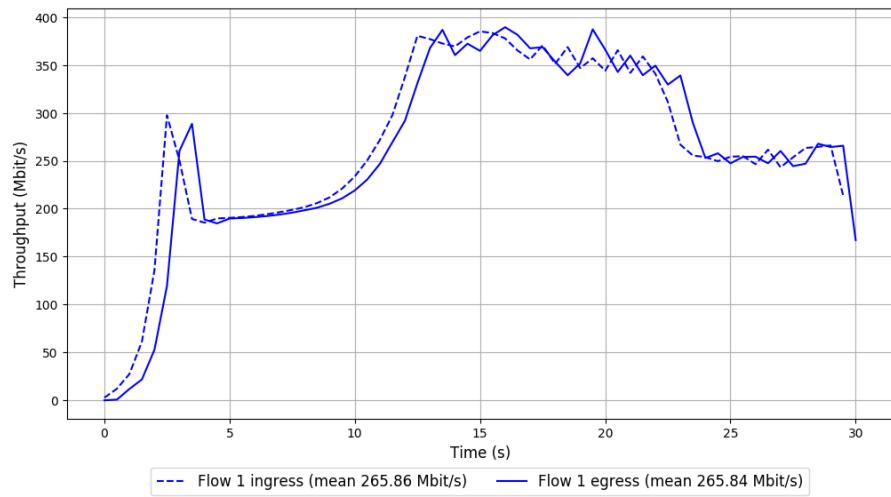


```
Run 2: Statistics of PCC-Expr
```

```
Start at: 2019-03-18 18:21:42
End at: 2019-03-18 18:22:12
Local clock offset: 24.221 ms
Remote clock offset: 26.282 ms

# Below is generated by plot.py at 2019-03-18 22:00:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.84 Mbit/s
95th percentile per-packet one-way delay: 139.420 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 265.84 Mbit/s
95th percentile per-packet one-way delay: 139.420 ms
Loss rate: 0.59%
```

Run 2: Report of PCC-Expr — Data Link

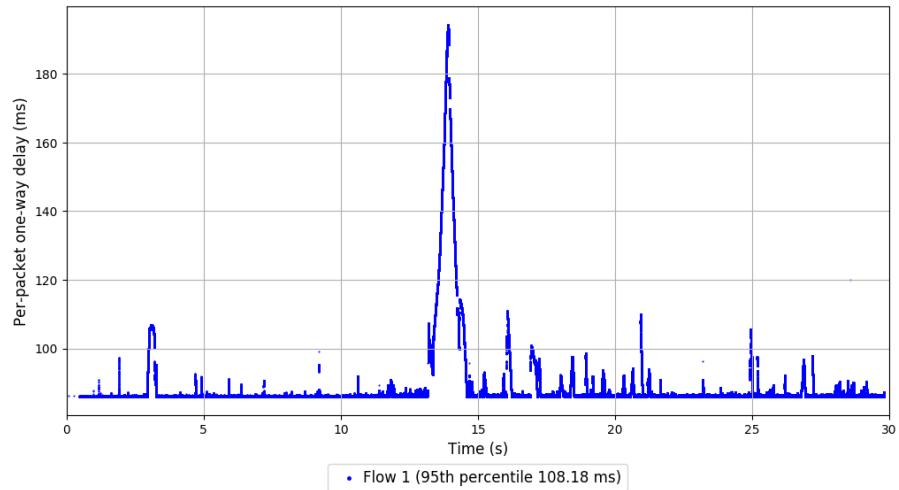
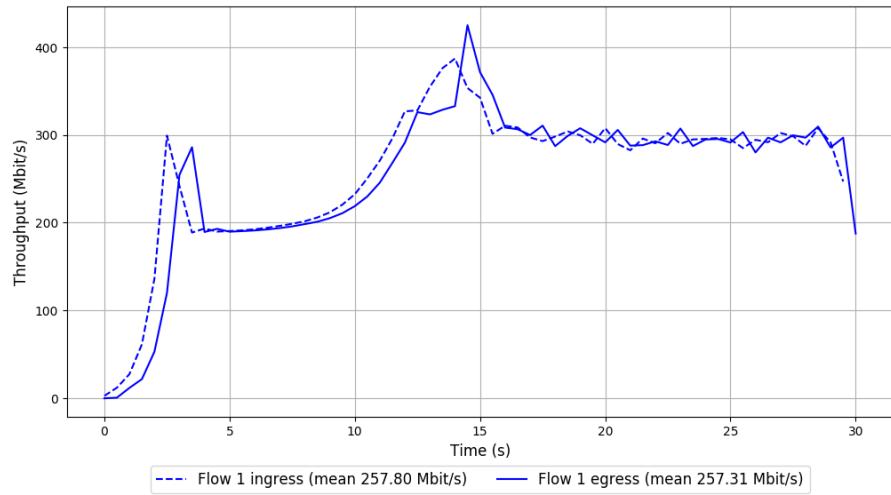


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-18 18:53:01
End at: 2019-03-18 18:53:32
Local clock offset: 37.813 ms
Remote clock offset: 41.482 ms

# Below is generated by plot.py at 2019-03-18 22:00:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.31 Mbit/s
95th percentile per-packet one-way delay: 108.178 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 257.31 Mbit/s
95th percentile per-packet one-way delay: 108.178 ms
Loss rate: 0.77%
```

Run 3: Report of PCC-Expr — Data Link

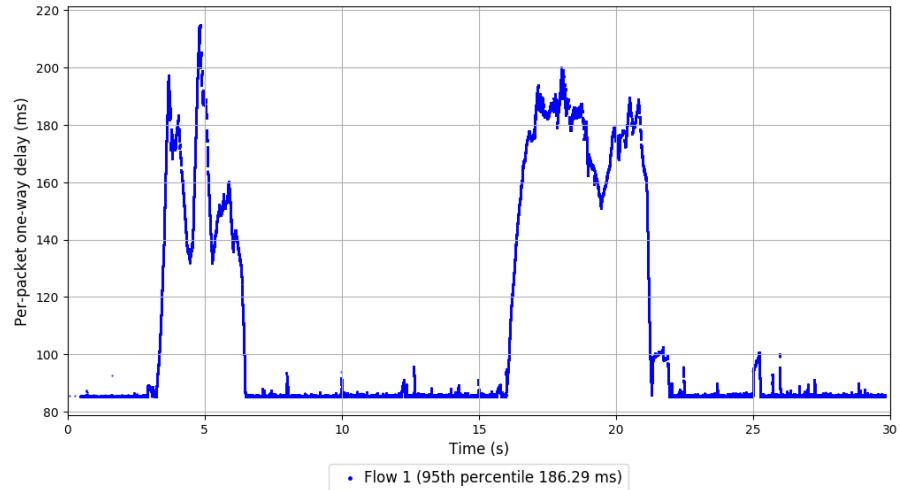
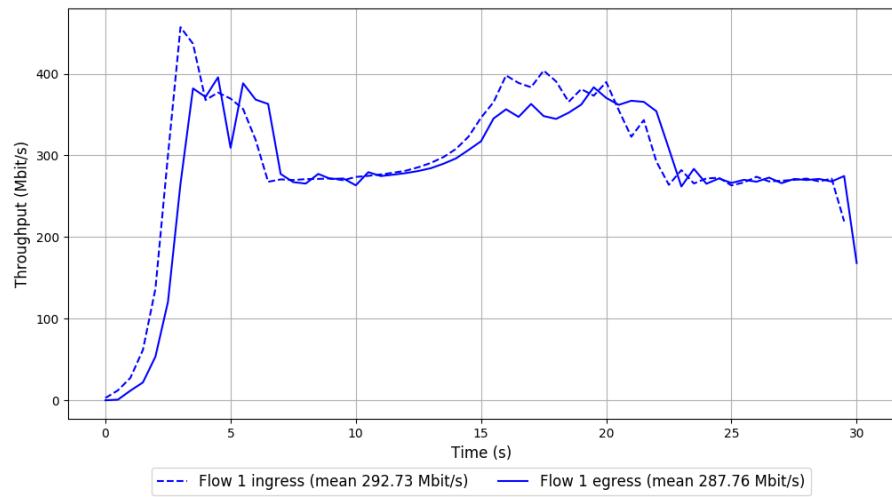


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-18 19:24:43
End at: 2019-03-18 19:25:13
Local clock offset: 17.572 ms
Remote clock offset: 20.031 ms

# Below is generated by plot.py at 2019-03-18 22:02:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 287.76 Mbit/s
95th percentile per-packet one-way delay: 186.288 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 287.76 Mbit/s
95th percentile per-packet one-way delay: 186.288 ms
Loss rate: 2.27%
```

Run 4: Report of PCC-Expr — Data Link

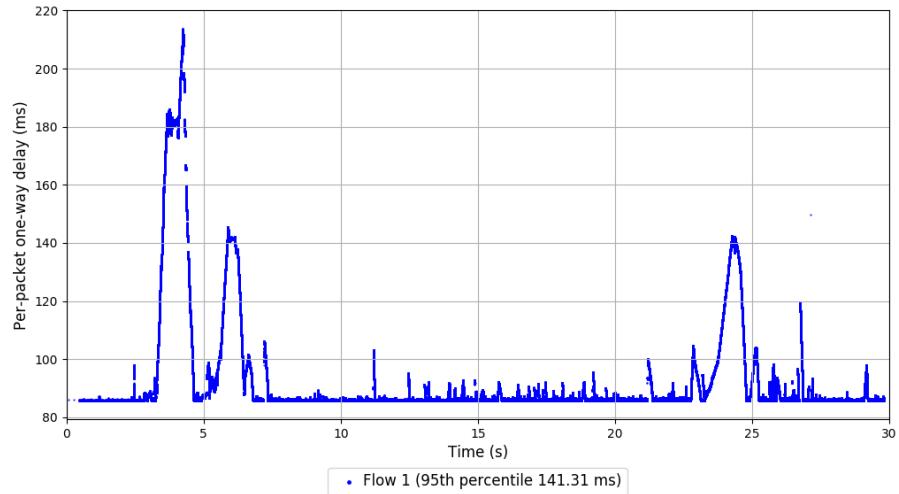
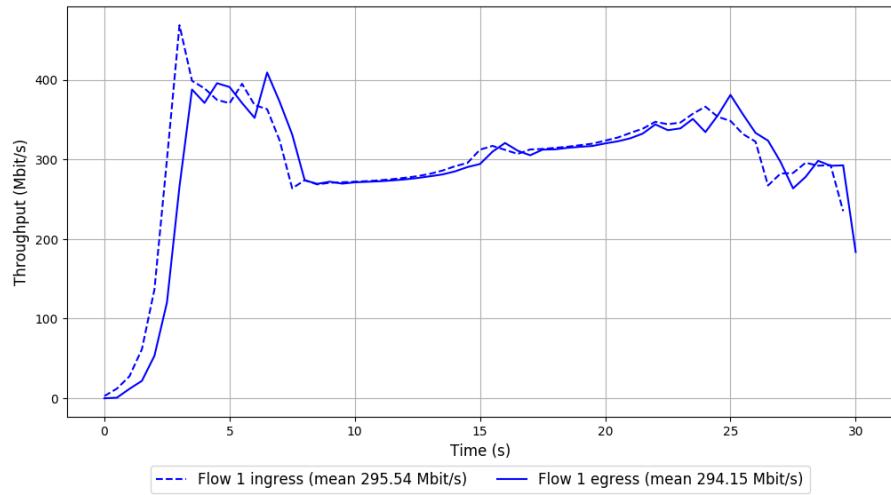


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-18 19:56:00
End at: 2019-03-18 19:56:30
Local clock offset: 8.121 ms
Remote clock offset: 9.008 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 294.15 Mbit/s
95th percentile per-packet one-way delay: 141.315 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 294.15 Mbit/s
95th percentile per-packet one-way delay: 141.315 ms
Loss rate: 1.04%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

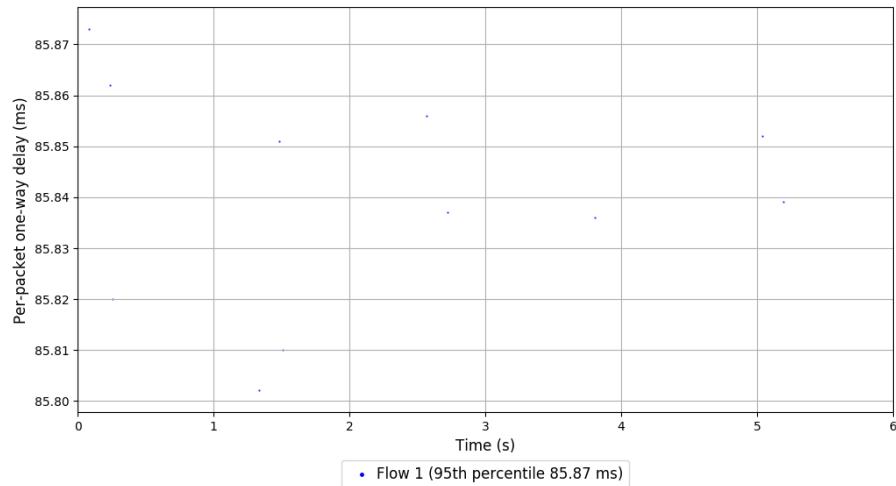
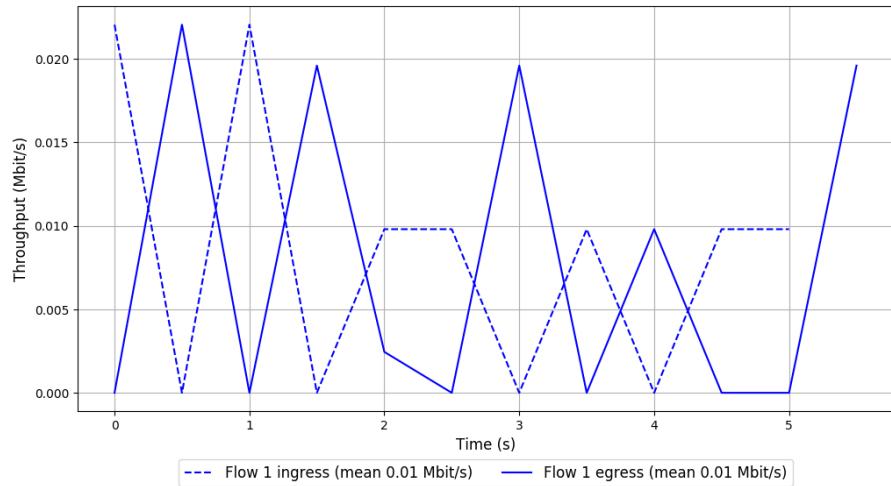
Start at: 2019-03-18 17:53:03

End at: 2019-03-18 17:53:33

Local clock offset: 7.853 ms

Remote clock offset: 8.523 ms

Run 1: Report of QUIC Cubic — Data Link

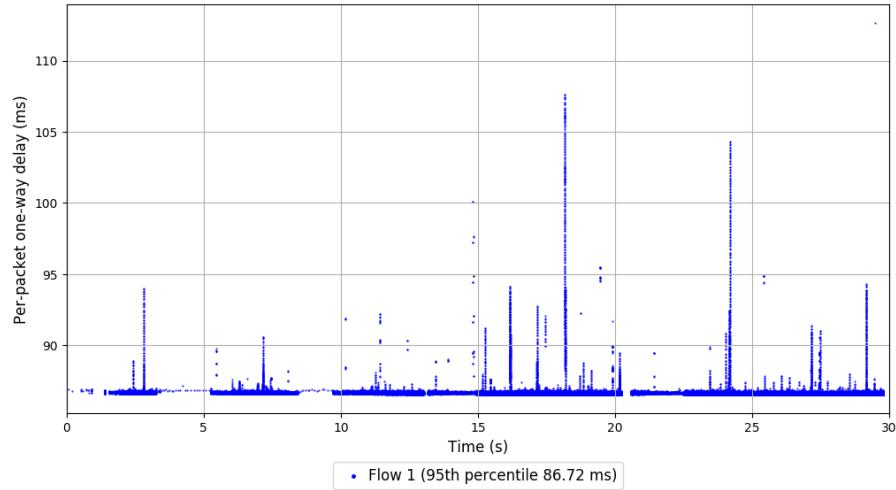
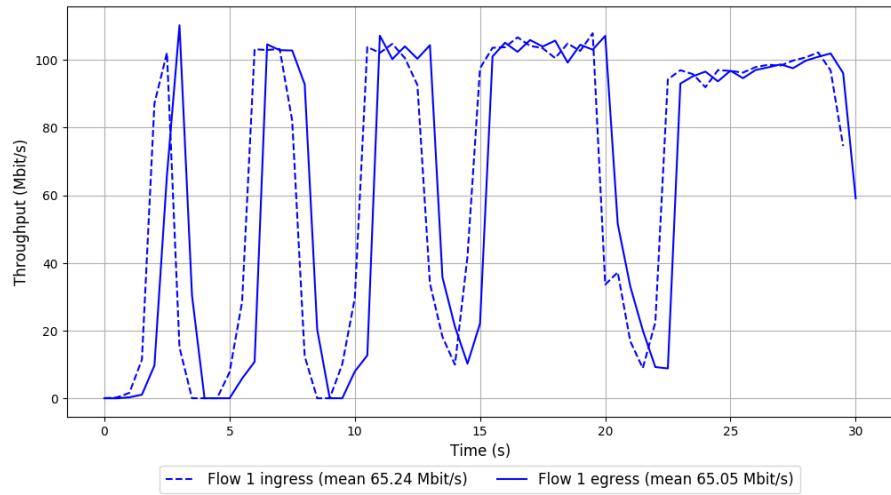


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-18 18:24:26
End at: 2019-03-18 18:24:56
Local clock offset: 21.247 ms
Remote clock offset: 22.976 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.05 Mbit/s
95th percentile per-packet one-way delay: 86.721 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 65.05 Mbit/s
95th percentile per-packet one-way delay: 86.721 ms
Loss rate: 0.88%
```

Run 2: Report of QUIC Cubic — Data Link

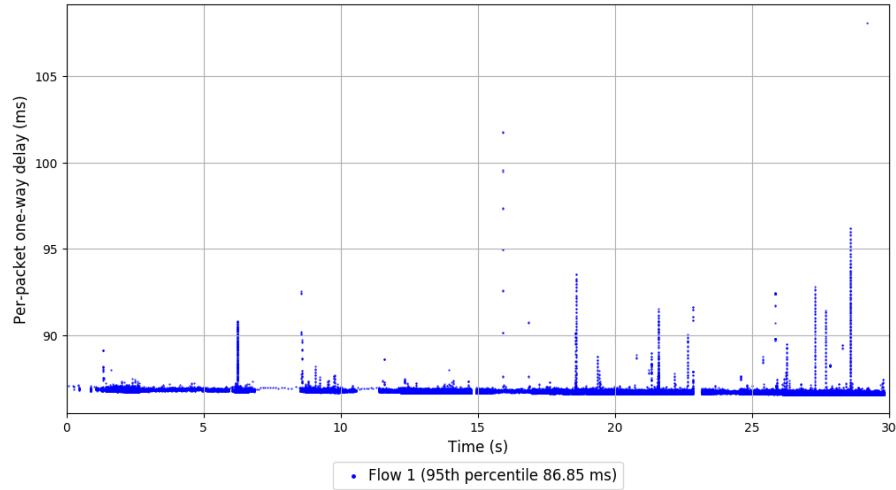
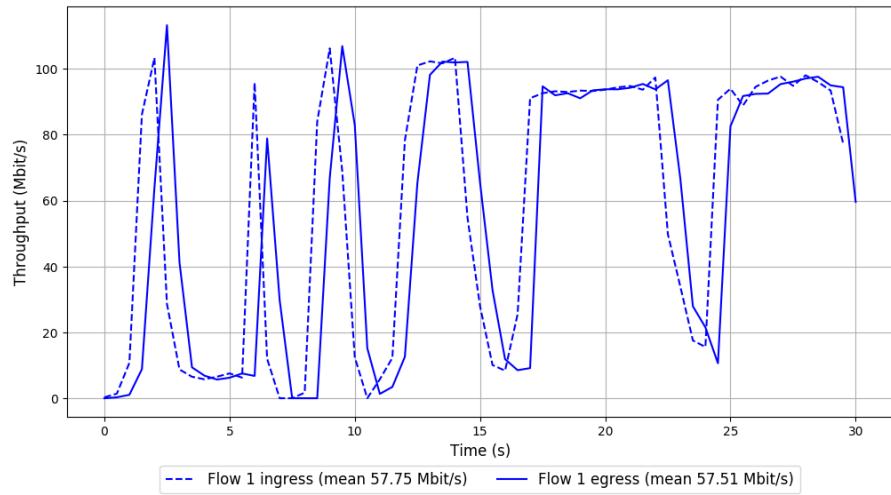


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-18 18:55:45
End at: 2019-03-18 18:56:15
Local clock offset: 34.774 ms
Remote clock offset: 37.775 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.51 Mbit/s
95th percentile per-packet one-way delay: 86.853 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 57.51 Mbit/s
95th percentile per-packet one-way delay: 86.853 ms
Loss rate: 0.99%
```

Run 3: Report of QUIC Cubic — Data Link

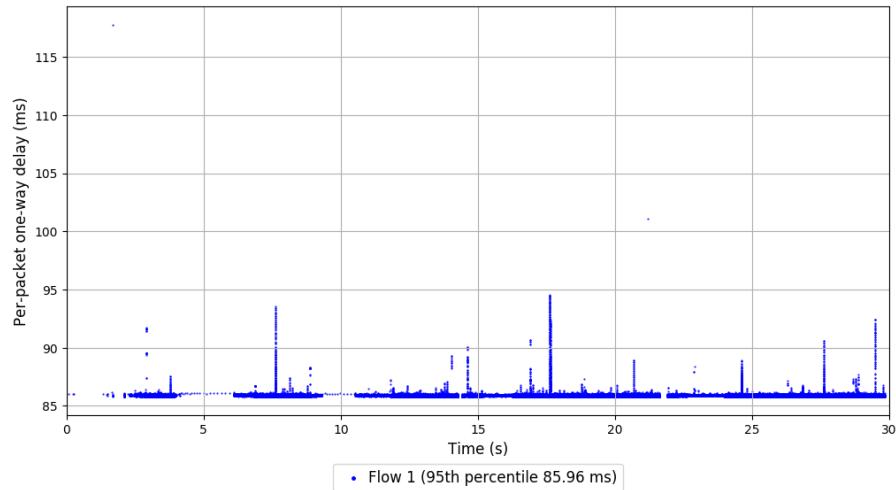
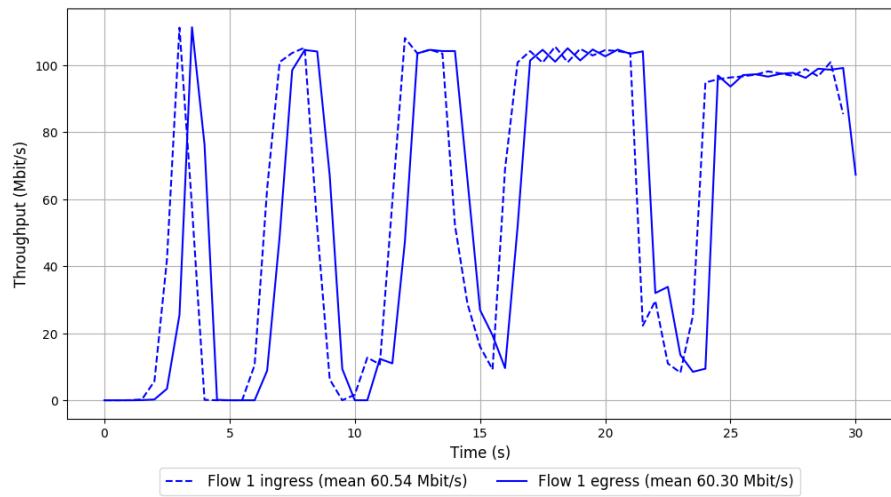


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-18 19:27:29
End at: 2019-03-18 19:27:59
Local clock offset: 19.276 ms
Remote clock offset: 21.398 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.30 Mbit/s
95th percentile per-packet one-way delay: 85.959 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 60.30 Mbit/s
95th percentile per-packet one-way delay: 85.959 ms
Loss rate: 0.98%
```

Run 4: Report of QUIC Cubic — Data Link

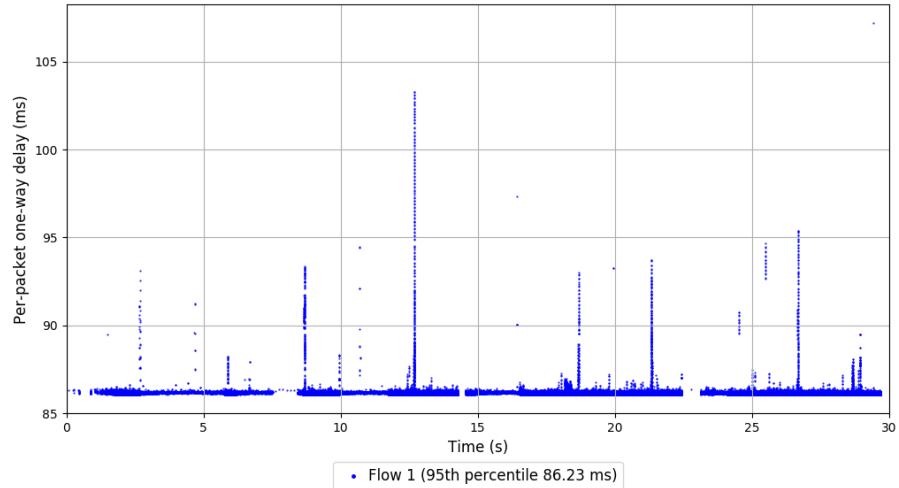
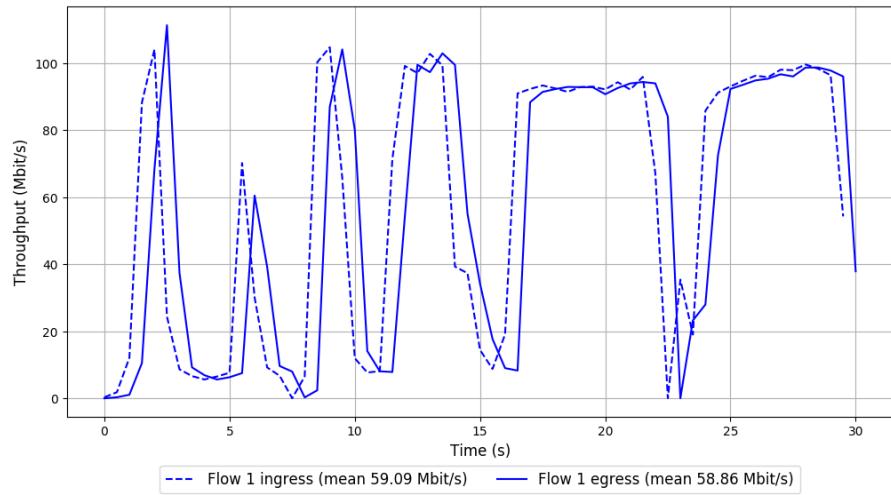


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-18 19:58:48
End at: 2019-03-18 19:59:18
Local clock offset: 8.687 ms
Remote clock offset: 9.537 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 86.227 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 86.227 ms
Loss rate: 0.98%
```

Run 5: Report of QUIC Cubic — Data Link

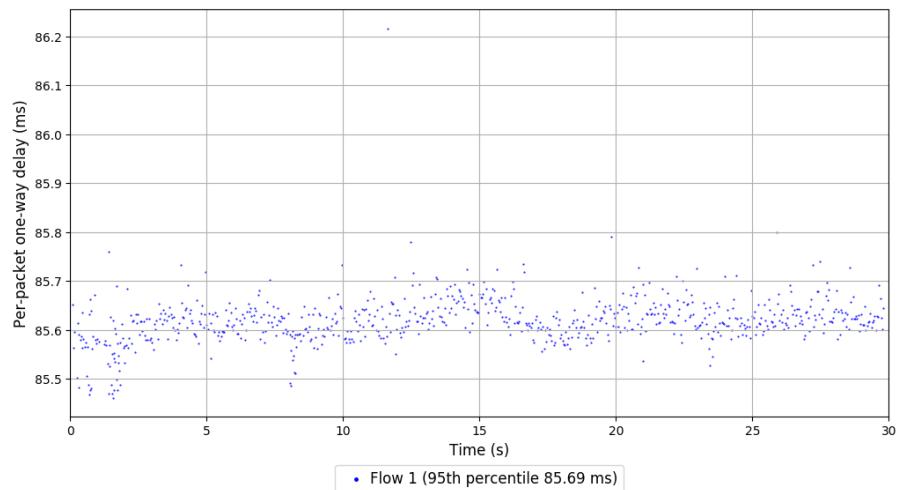
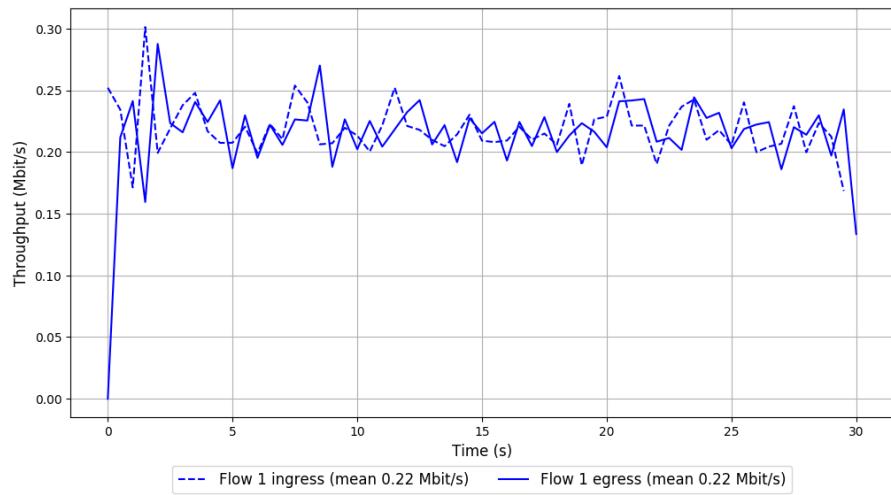


```
Run 1: Statistics of SCReAM

Start at: 2019-03-18 18:12:34
End at: 2019-03-18 18:13:04
Local clock offset: 15.982 ms
Remote clock offset: 17.966 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.691 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.691 ms
Loss rate: 0.52%
```

Run 1: Report of SCReAM — Data Link

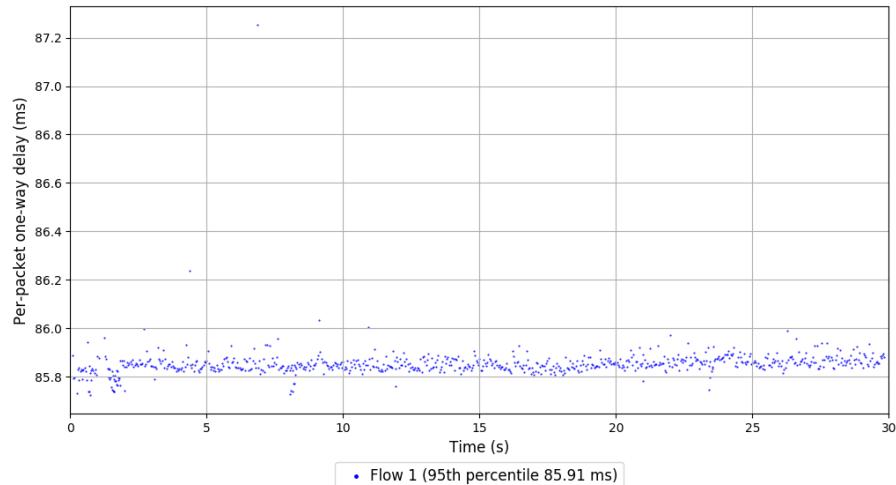
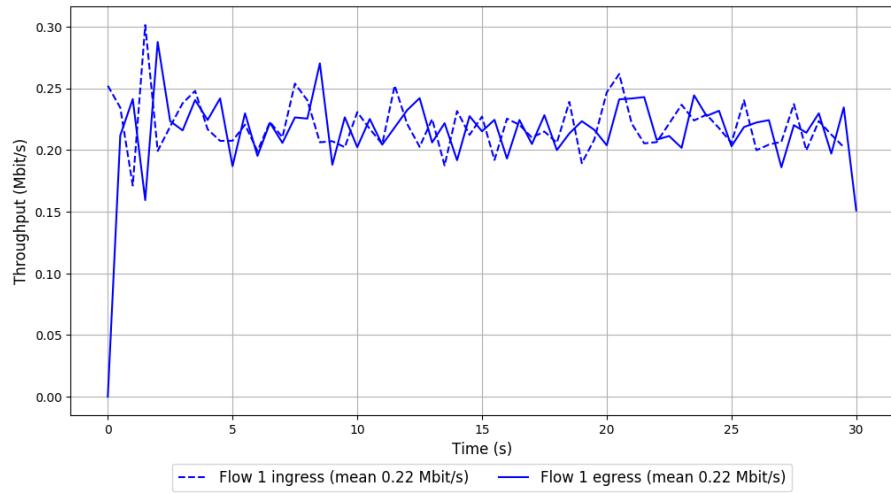


Run 2: Statistics of SCReAM

```
Start at: 2019-03-18 18:43:59
End at: 2019-03-18 18:44:29
Local clock offset: 28.259 ms
Remote clock offset: 31.339 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.908 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.908 ms
Loss rate: 0.64%
```

Run 2: Report of SCReAM — Data Link

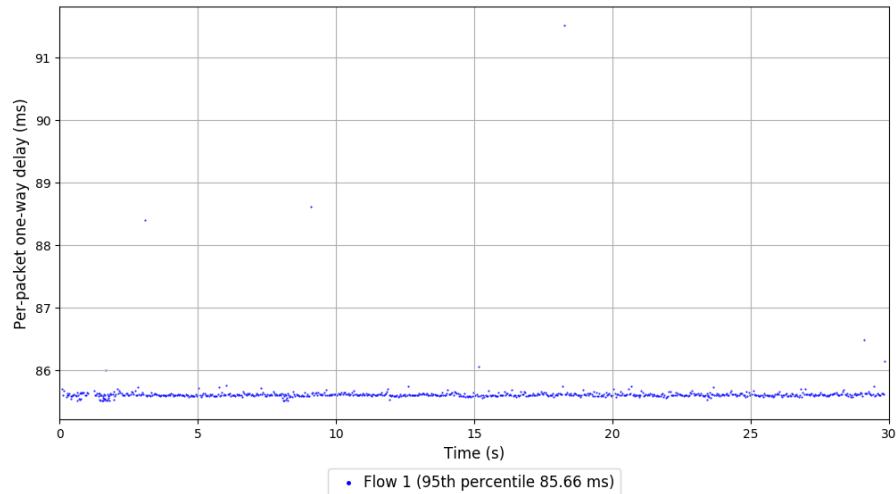
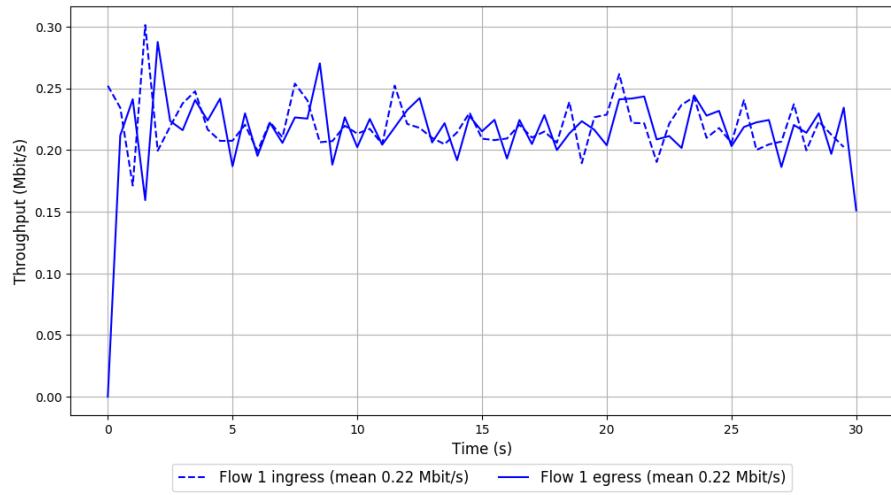


Run 3: Statistics of SCReAM

```
Start at: 2019-03-18 19:15:19
End at: 2019-03-18 19:15:50
Local clock offset: 14.625 ms
Remote clock offset: 16.712 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.663 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.663 ms
Loss rate: 0.64%
```

Run 3: Report of SCReAM — Data Link

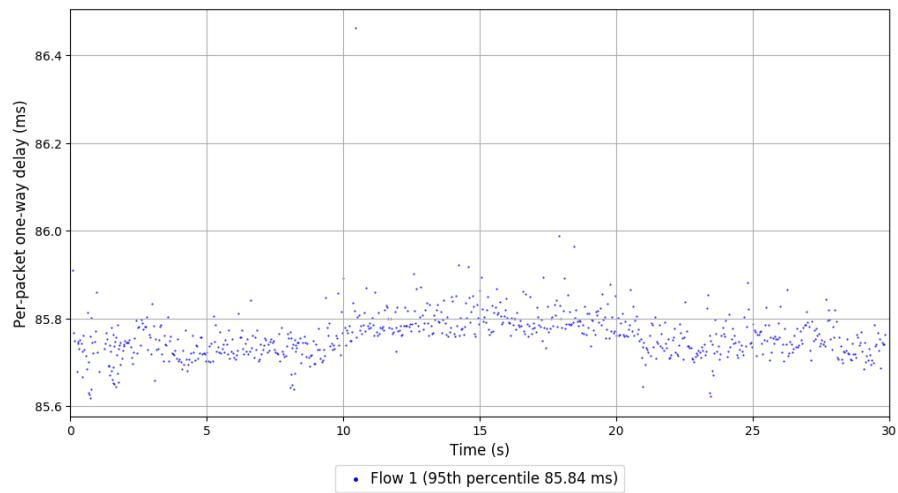
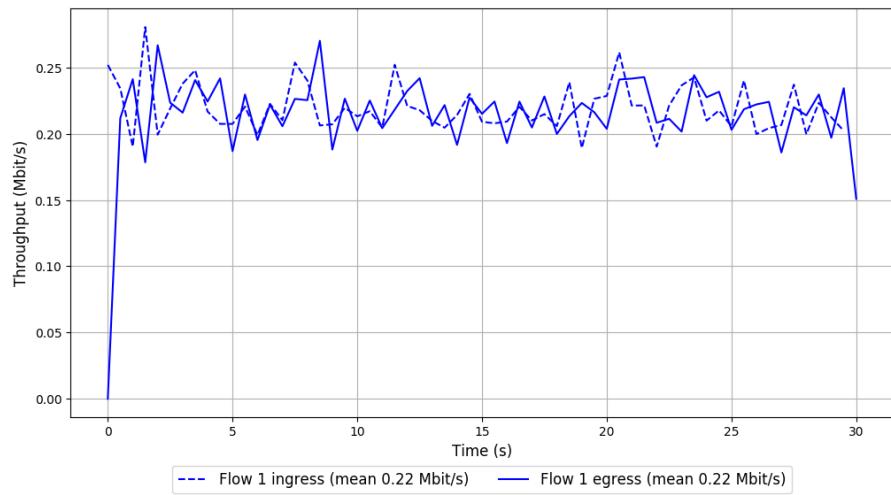


Run 4: Statistics of SCReAM

```
Start at: 2019-03-18 19:46:58
End at: 2019-03-18 19:47:28
Local clock offset: 6.971 ms
Remote clock offset: 7.971 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.842 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.842 ms
Loss rate: 0.64%
```

Run 4: Report of SCReAM — Data Link

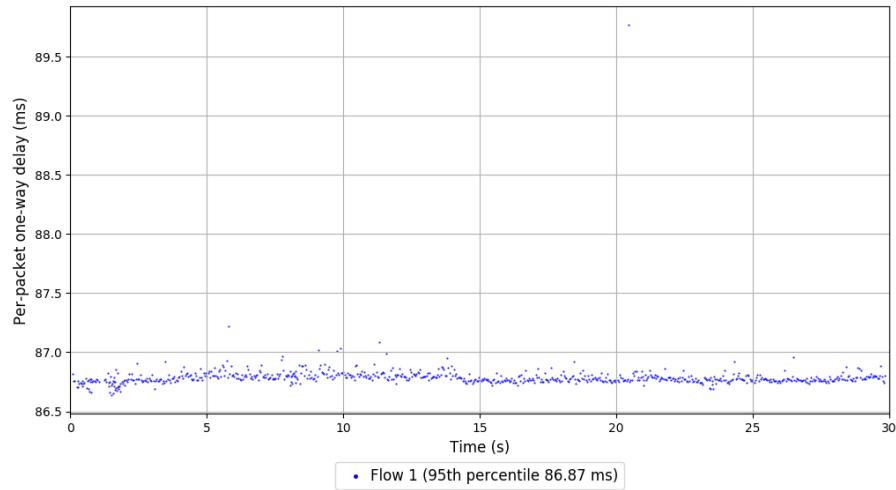
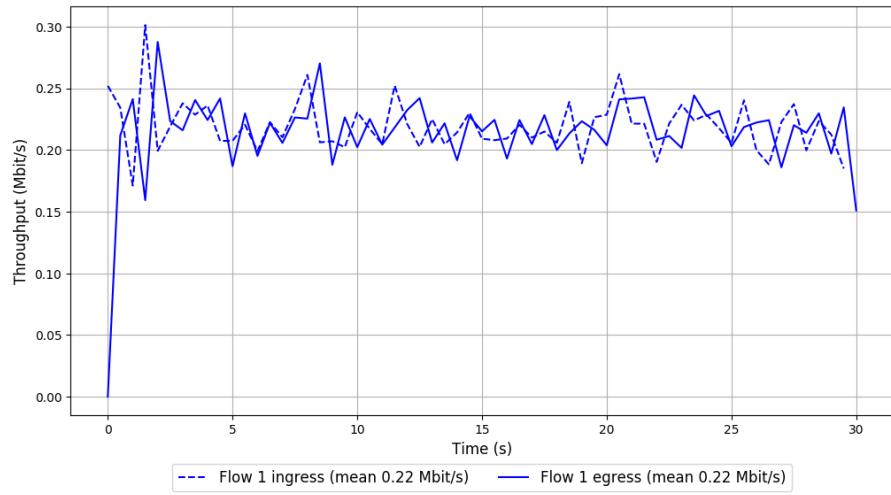


Run 5: Statistics of SCReAM

```
Start at: 2019-03-18 20:18:17
End at: 2019-03-18 20:18:47
Local clock offset: 2.822 ms
Remote clock offset: 3.831 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.869 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.869 ms
Loss rate: 0.51%
```

Run 5: Report of SCReAM — Data Link

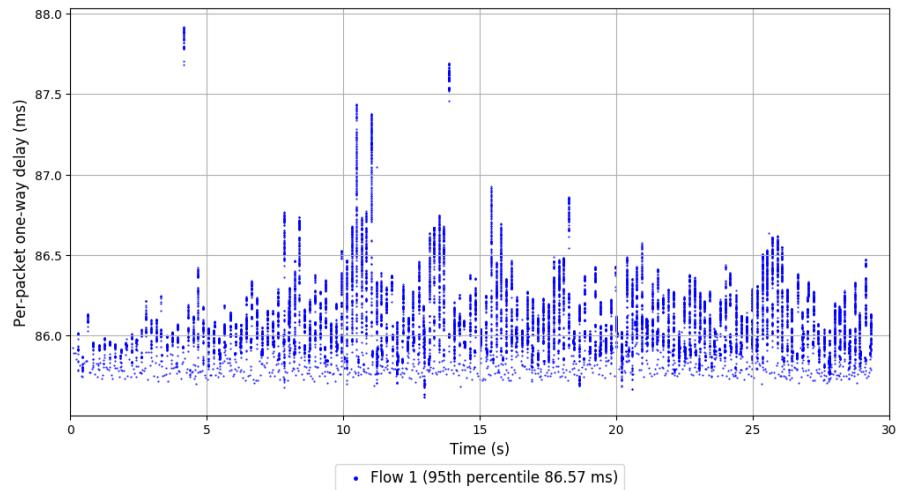
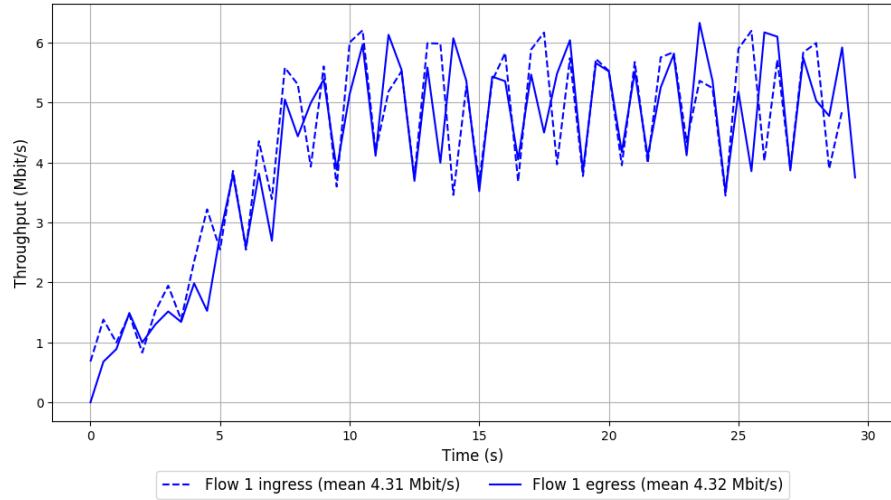


Run 1: Statistics of Sprout

```
Start at: 2019-03-18 17:51:53
End at: 2019-03-18 17:52:23
Local clock offset: 6.067 ms
Remote clock offset: 6.642 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 86.573 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 86.573 ms
Loss rate: 0.44%
```

Run 1: Report of Sprout — Data Link

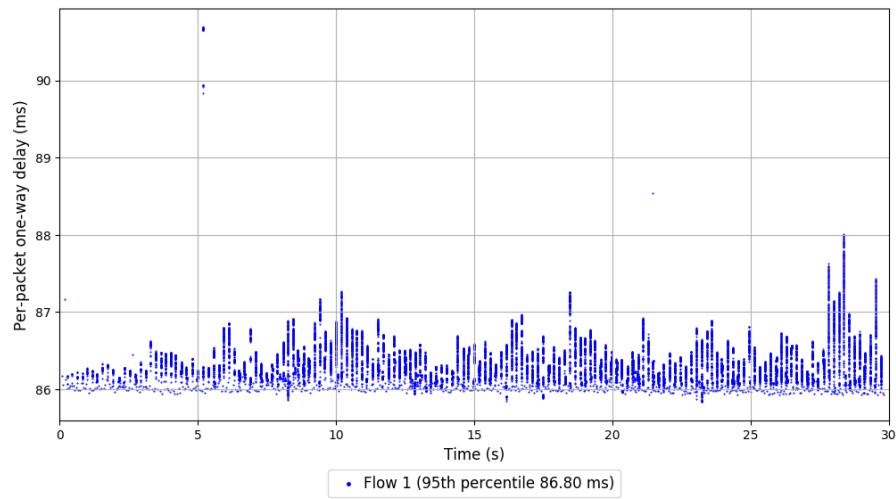
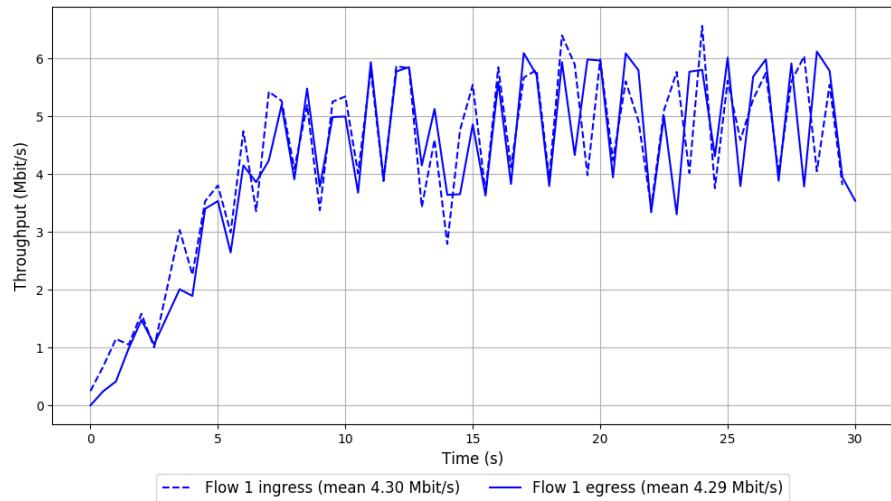


Run 2: Statistics of Sprout

```
Start at: 2019-03-18 18:23:16
End at: 2019-03-18 18:23:46
Local clock offset: 21.817 ms
Remote clock offset: 24.124 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 86.800 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 86.800 ms
Loss rate: 0.73%
```

Run 2: Report of Sprout — Data Link

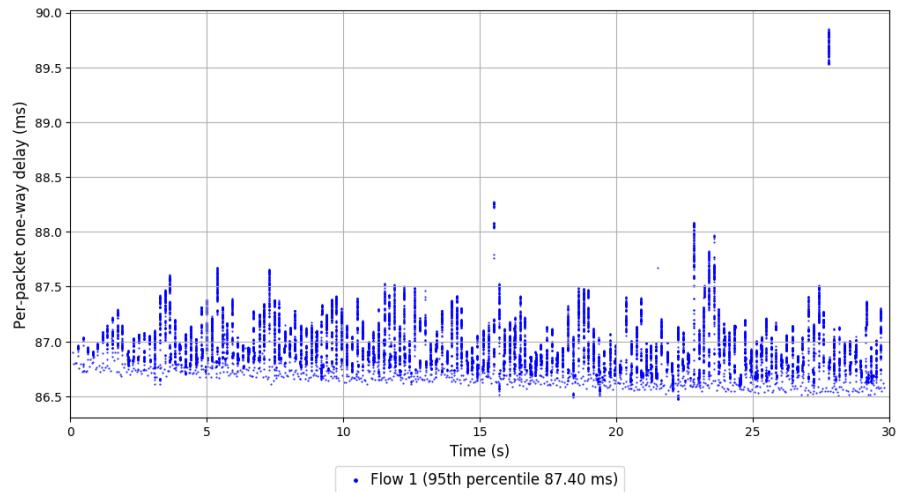
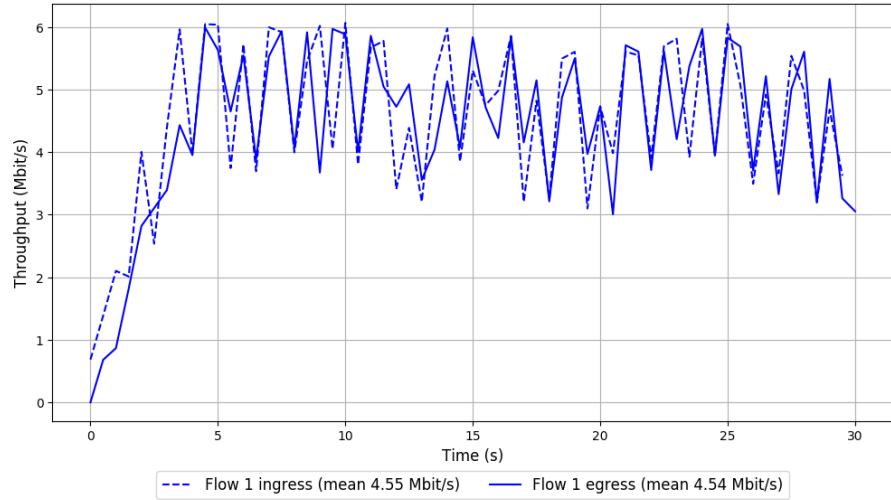


Run 3: Statistics of Sprout

```
Start at: 2019-03-18 18:54:35
End at: 2019-03-18 18:55:05
Local clock offset: 39.061 ms
Remote clock offset: 42.79 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 87.401 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 87.401 ms
Loss rate: 0.73%
```

Run 3: Report of Sprout — Data Link

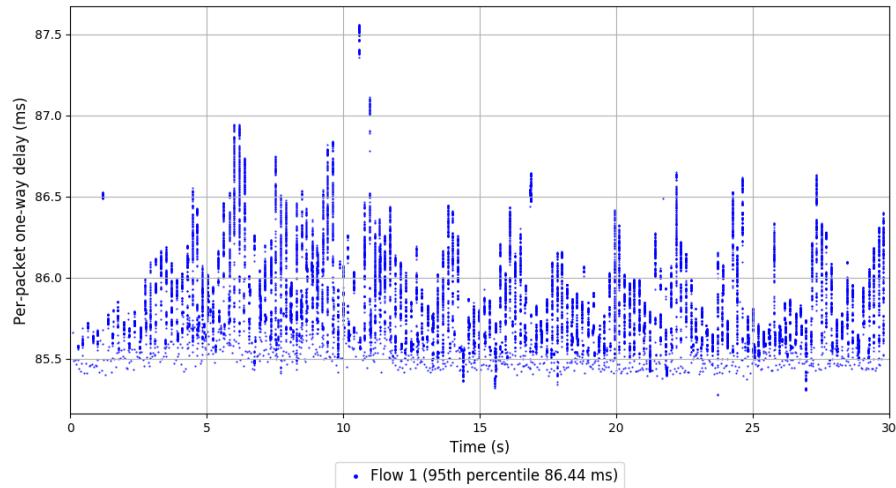
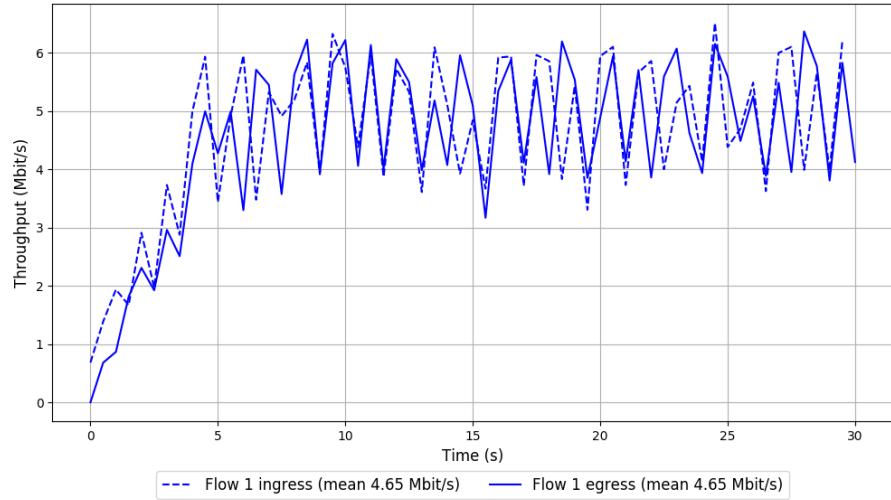


Run 4: Statistics of Sprout

```
Start at: 2019-03-18 19:26:19
End at: 2019-03-18 19:26:49
Local clock offset: 18.279 ms
Remote clock offset: 20.834 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.65 Mbit/s
95th percentile per-packet one-way delay: 86.436 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 4.65 Mbit/s
95th percentile per-packet one-way delay: 86.436 ms
Loss rate: 0.75%
```

Run 4: Report of Sprout — Data Link

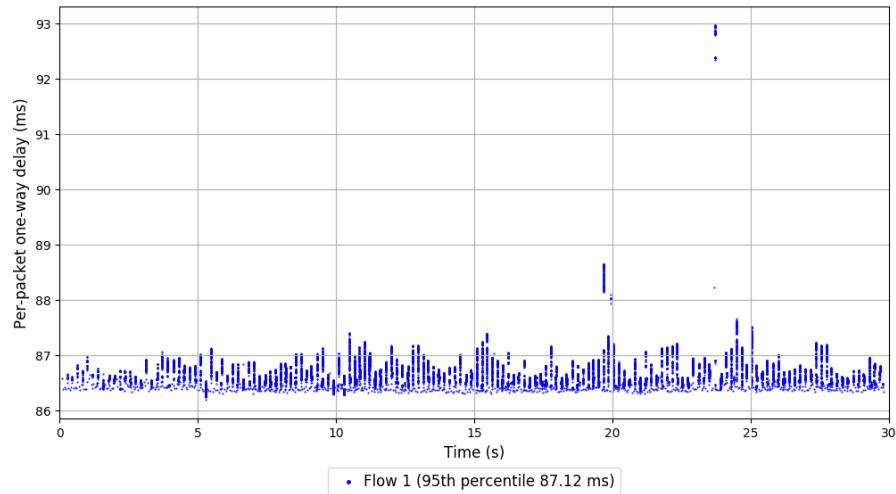
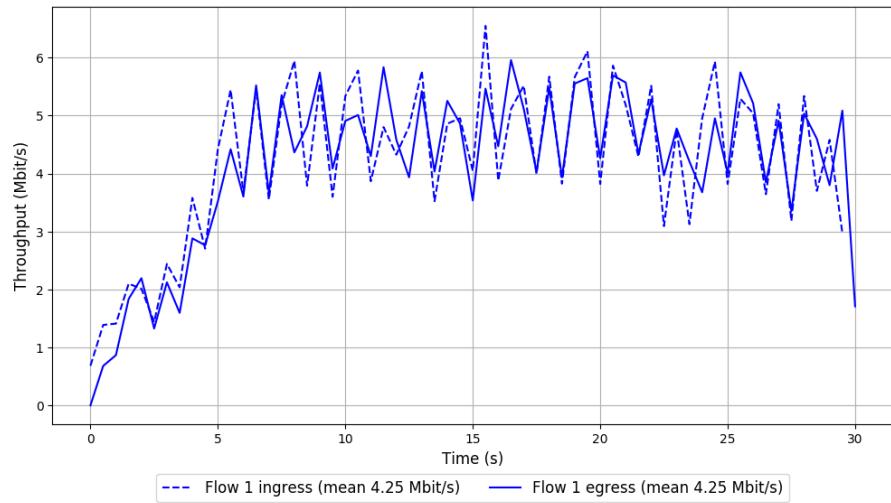


Run 5: Statistics of Sprout

```
Start at: 2019-03-18 19:57:38
End at: 2019-03-18 19:58:08
Local clock offset: 8.635 ms
Remote clock offset: 9.358 ms

# Below is generated by plot.py at 2019-03-18 22:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 87.120 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 87.120 ms
Loss rate: 0.55%
```

Run 5: Report of Sprout — Data Link

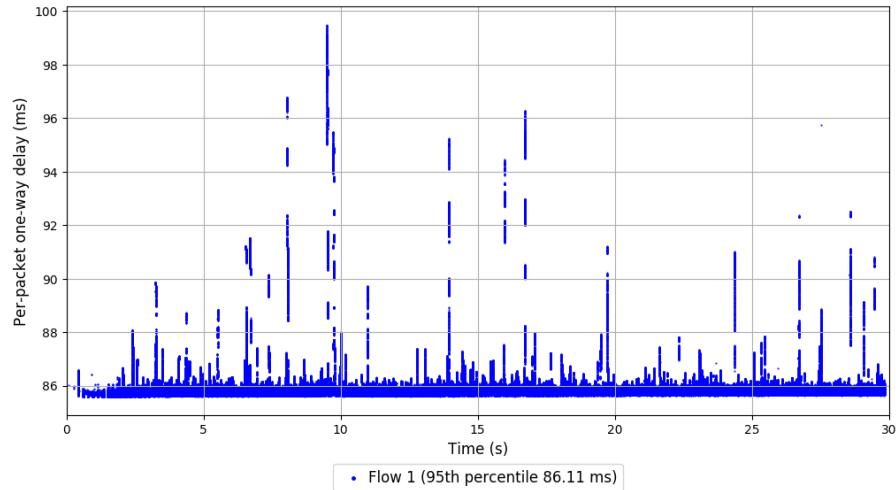
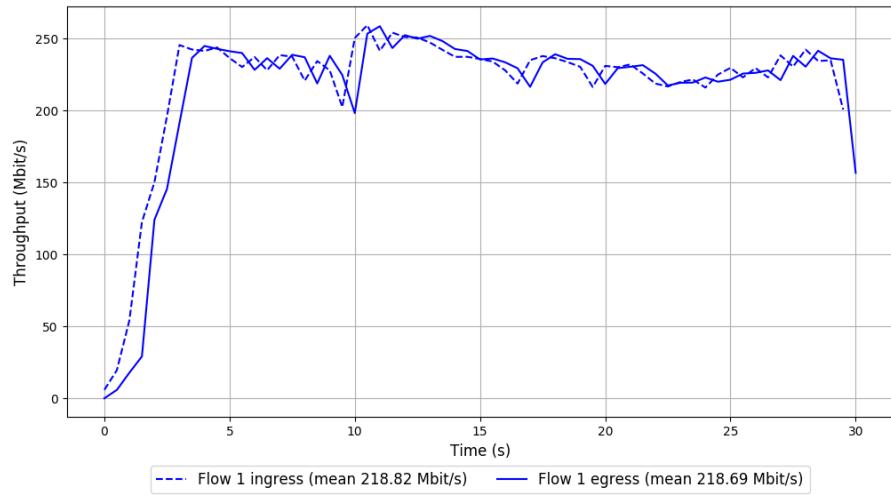


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-18 17:58:27
End at: 2019-03-18 17:58:57
Local clock offset: 9.526 ms
Remote clock offset: 10.542 ms

# Below is generated by plot.py at 2019-03-18 22:06:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.69 Mbit/s
95th percentile per-packet one-way delay: 86.110 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 218.69 Mbit/s
95th percentile per-packet one-way delay: 86.110 ms
Loss rate: 0.64%
```

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

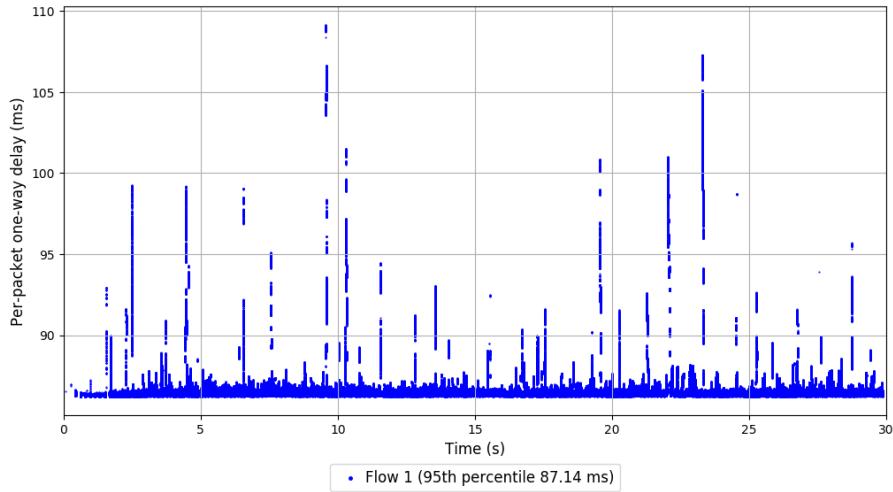
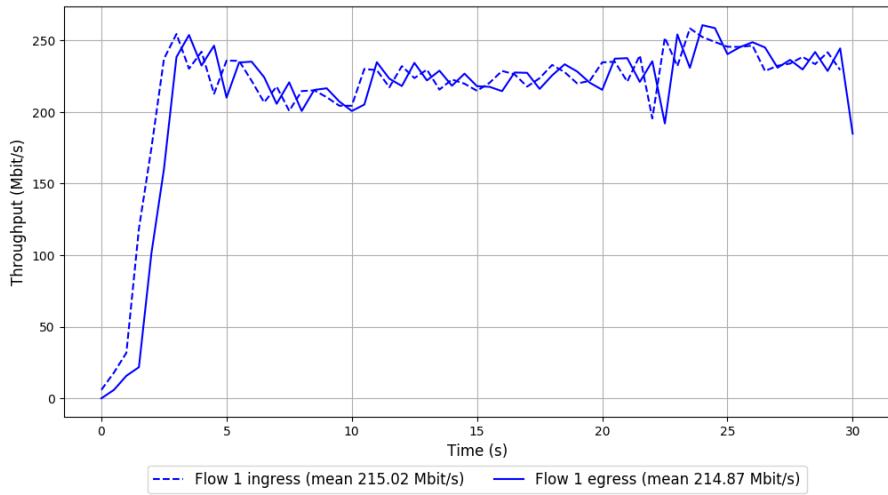


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-18 18:29:53
End at: 2019-03-18 18:30:23
Local clock offset: 19.52 ms
Remote clock offset: 21.369 ms

# Below is generated by plot.py at 2019-03-18 22:06:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.87 Mbit/s
95th percentile per-packet one-way delay: 87.144 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 214.87 Mbit/s
95th percentile per-packet one-way delay: 87.144 ms
Loss rate: 0.66%
```

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

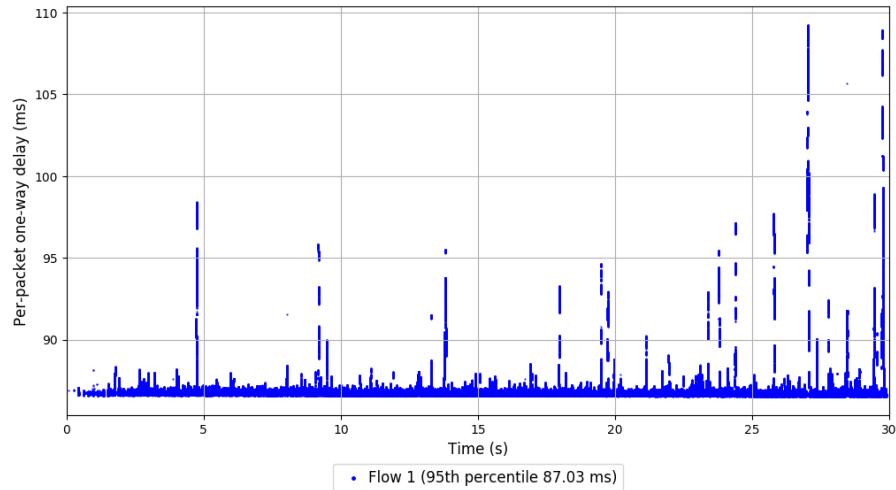
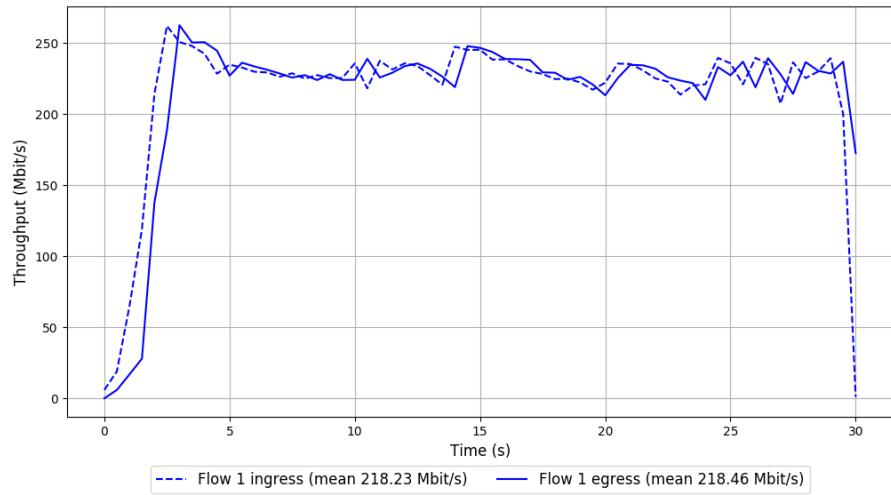


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-18 19:01:17
End at: 2019-03-18 19:01:47
Local clock offset: 21.442 ms
Remote clock offset: 23.426 ms

# Below is generated by plot.py at 2019-03-18 22:07:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.46 Mbit/s
95th percentile per-packet one-way delay: 87.034 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 218.46 Mbit/s
95th percentile per-packet one-way delay: 87.034 ms
Loss rate: 0.53%
```

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

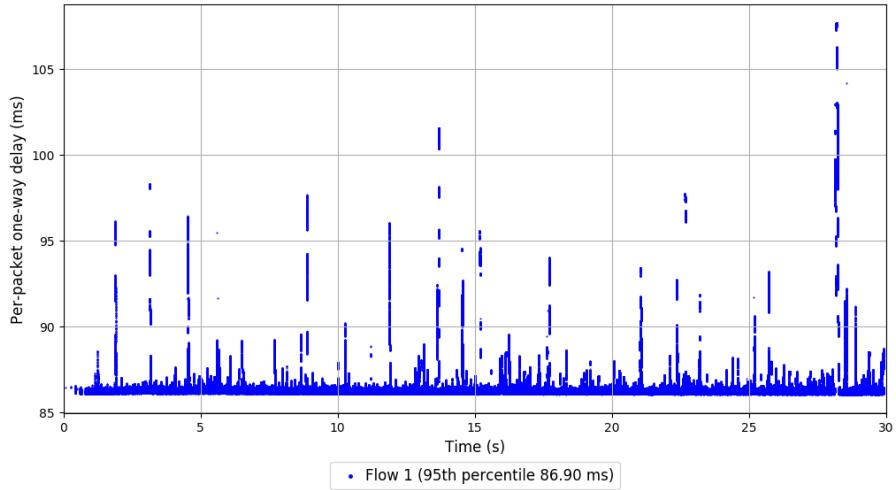
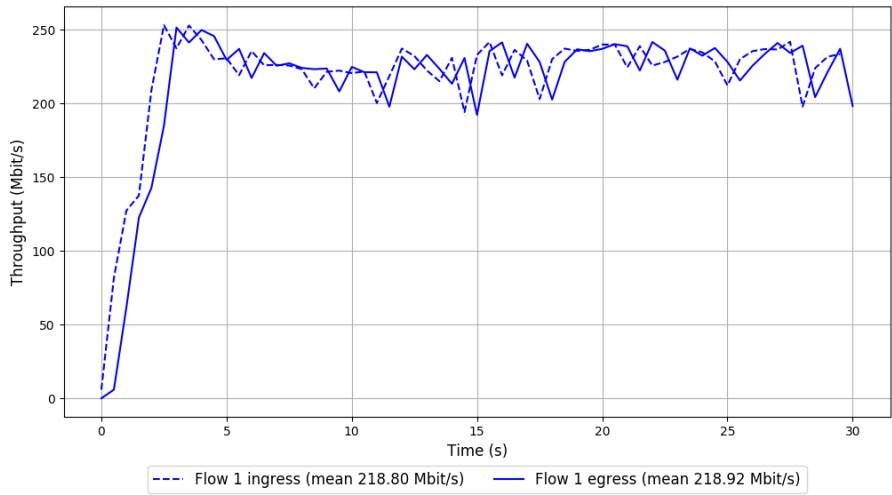


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-18 19:32:55
End at: 2019-03-18 19:33:25
Local clock offset: 13.132 ms
Remote clock offset: 14.336 ms

# Below is generated by plot.py at 2019-03-18 22:07:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.92 Mbit/s
95th percentile per-packet one-way delay: 86.901 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 218.92 Mbit/s
95th percentile per-packet one-way delay: 86.901 ms
Loss rate: 0.52%
```

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

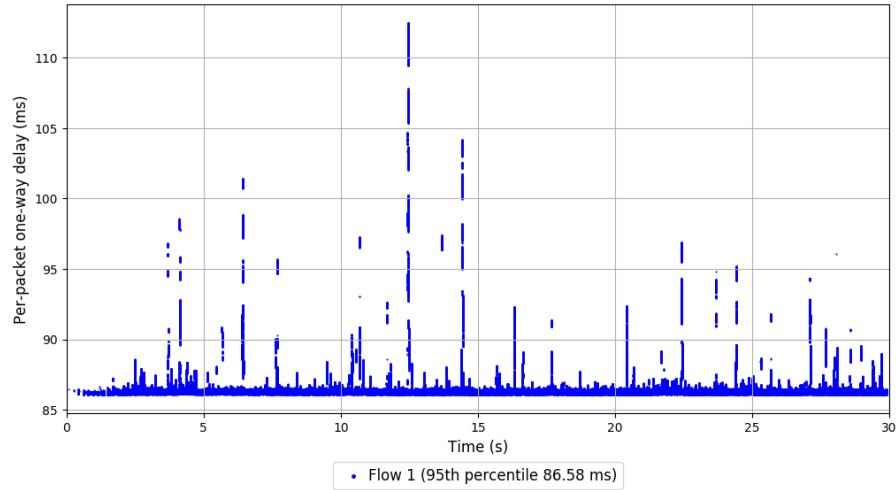
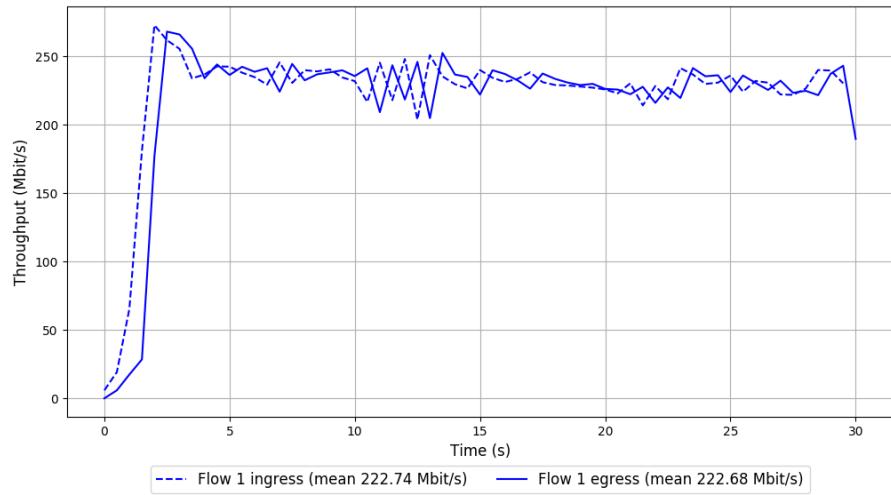


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-18 20:04:12
End at: 2019-03-18 20:04:42
Local clock offset: 8.26 ms
Remote clock offset: 8.902 ms

# Below is generated by plot.py at 2019-03-18 22:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.68 Mbit/s
95th percentile per-packet one-way delay: 86.583 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 222.68 Mbit/s
95th percentile per-packet one-way delay: 86.583 ms
Loss rate: 0.60%
```

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

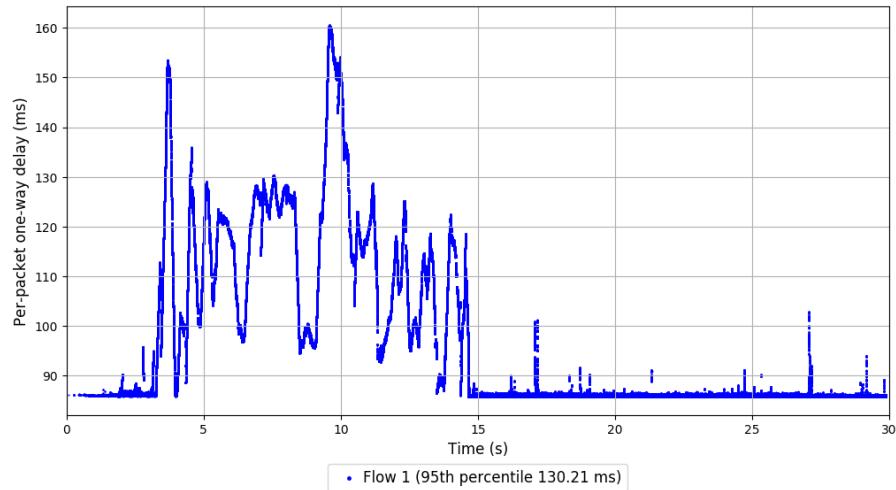
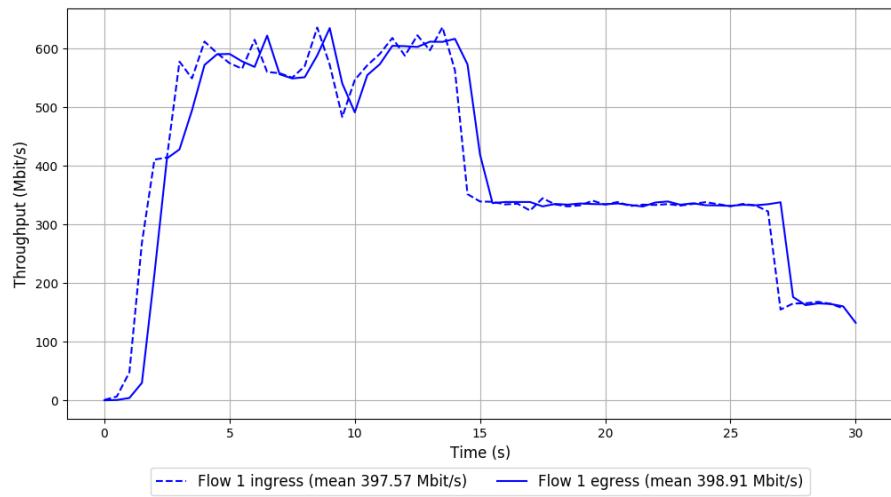


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-18 17:55:46
End at: 2019-03-18 17:56:16
Local clock offset: 9.35 ms
Remote clock offset: 10.261 ms

# Below is generated by plot.py at 2019-03-18 22:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 398.91 Mbit/s
95th percentile per-packet one-way delay: 130.206 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 398.91 Mbit/s
95th percentile per-packet one-way delay: 130.206 ms
Loss rate: 0.24%
```

Run 1: Report of TCP Vegas — Data Link

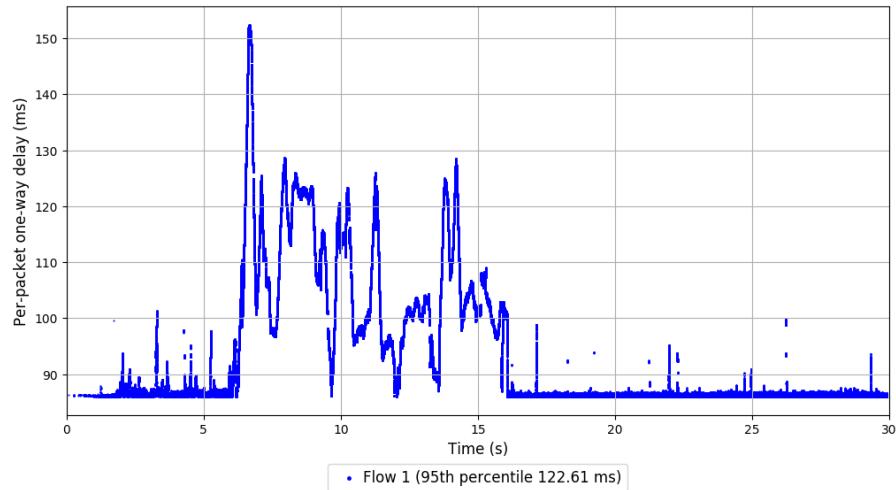
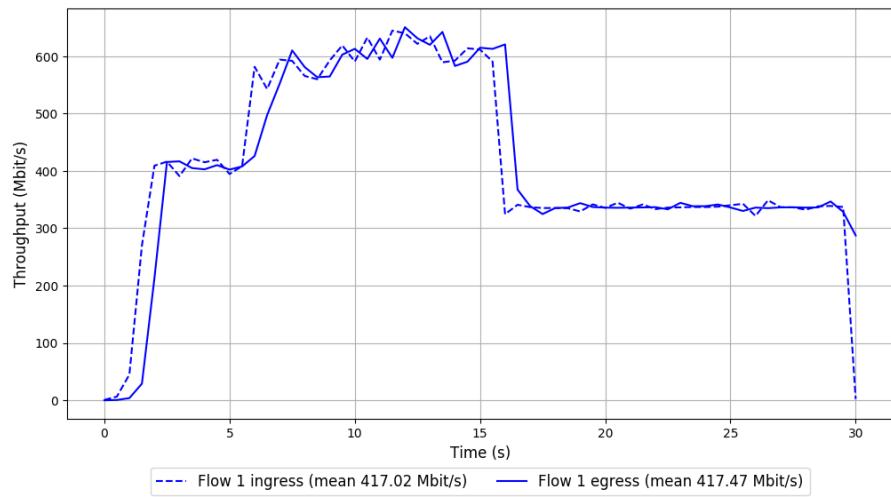


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-18 18:27:12
End at: 2019-03-18 18:27:42
Local clock offset: 19.424 ms
Remote clock offset: 21.533 ms

# Below is generated by plot.py at 2019-03-18 22:10:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 417.47 Mbit/s
95th percentile per-packet one-way delay: 122.609 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 417.47 Mbit/s
95th percentile per-packet one-way delay: 122.609 ms
Loss rate: 0.47%
```

Run 2: Report of TCP Vegas — Data Link

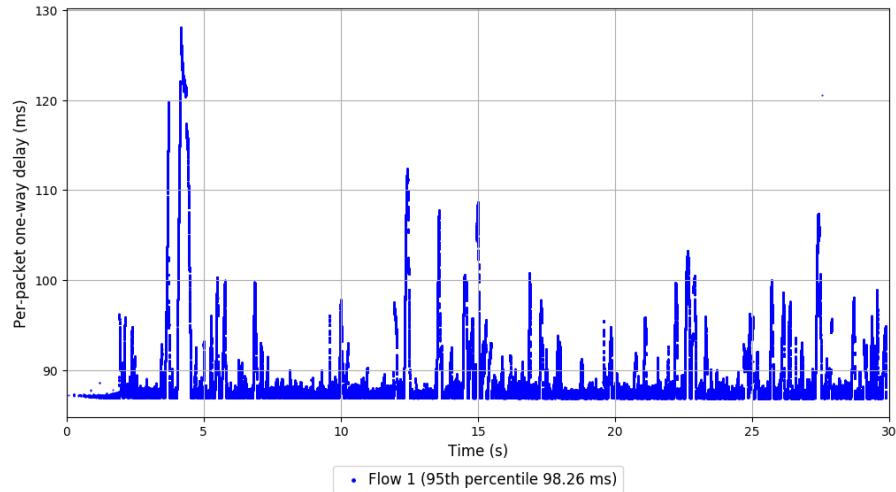
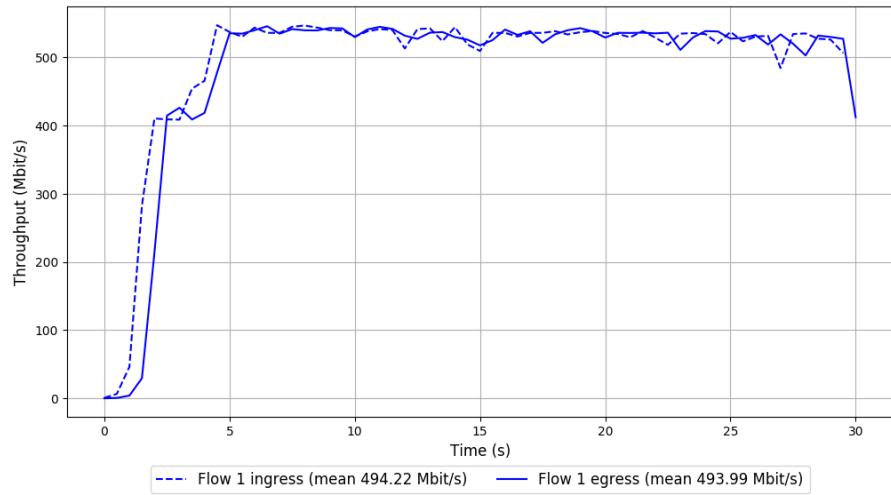


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-18 18:58:32
End at: 2019-03-18 18:59:02
Local clock offset: 27.11 ms
Remote clock offset: 29.003 ms

# Below is generated by plot.py at 2019-03-18 22:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 493.99 Mbit/s
95th percentile per-packet one-way delay: 98.261 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 493.99 Mbit/s
95th percentile per-packet one-way delay: 98.261 ms
Loss rate: 0.62%
```

Run 3: Report of TCP Vegas — Data Link

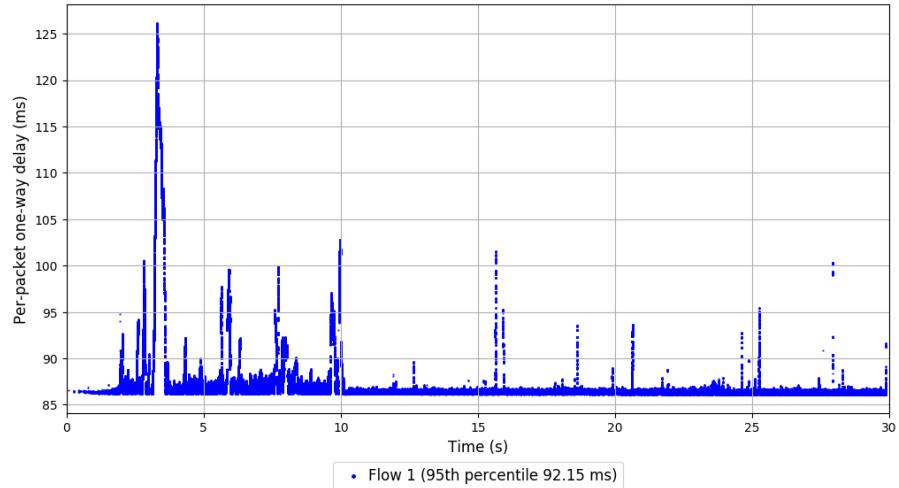
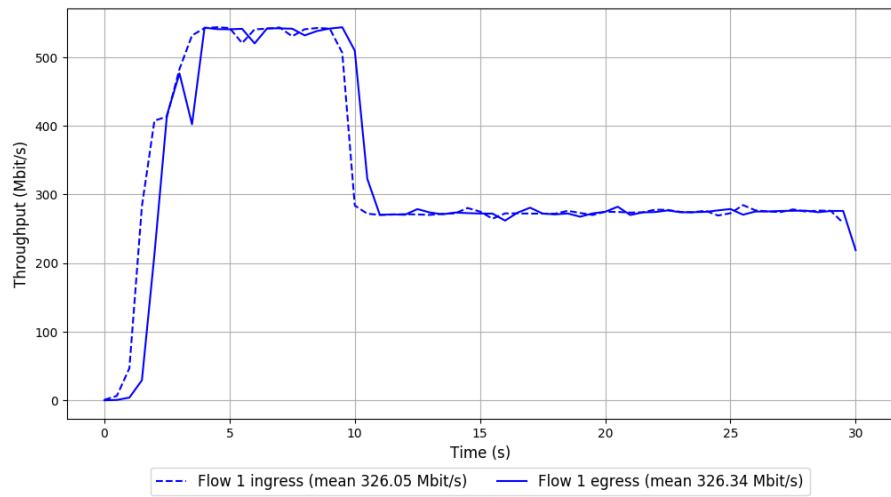


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-18 19:30:18
End at: 2019-03-18 19:30:48
Local clock offset: 16.801 ms
Remote clock offset: 18.402 ms

# Below is generated by plot.py at 2019-03-18 22:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.34 Mbit/s
95th percentile per-packet one-way delay: 92.151 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 326.34 Mbit/s
95th percentile per-packet one-way delay: 92.151 ms
Loss rate: 0.49%
```

Run 4: Report of TCP Vegas — Data Link

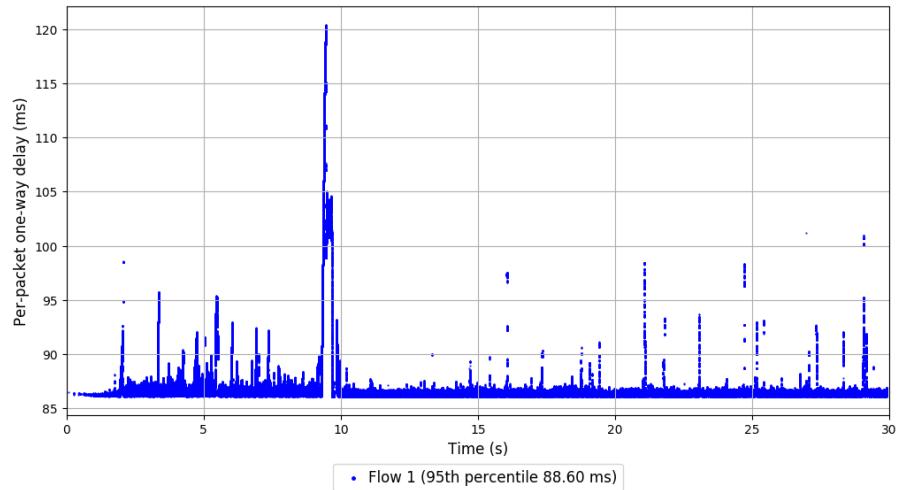
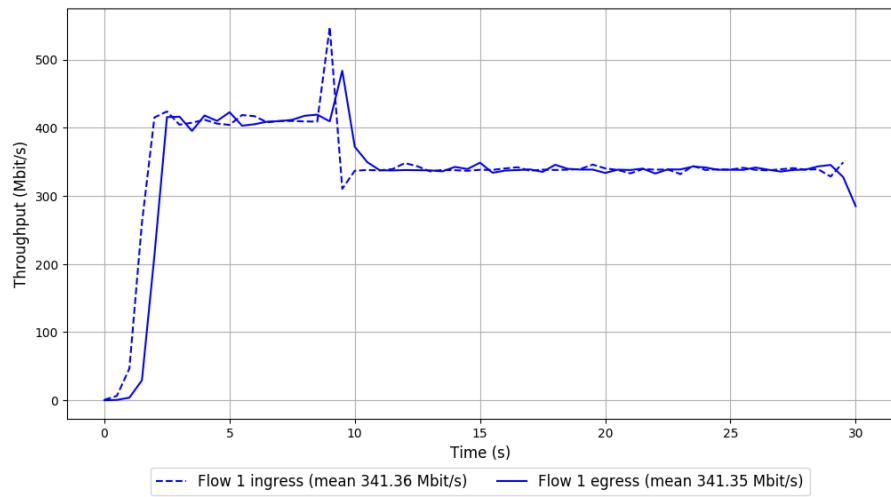


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-18 20:01:34
End at: 2019-03-18 20:02:04
Local clock offset: 9.275 ms
Remote clock offset: 10.2 ms

# Below is generated by plot.py at 2019-03-18 22:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.35 Mbit/s
95th percentile per-packet one-way delay: 88.600 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 341.35 Mbit/s
95th percentile per-packet one-way delay: 88.600 ms
Loss rate: 0.57%
```

Run 5: Report of TCP Vegas — Data Link

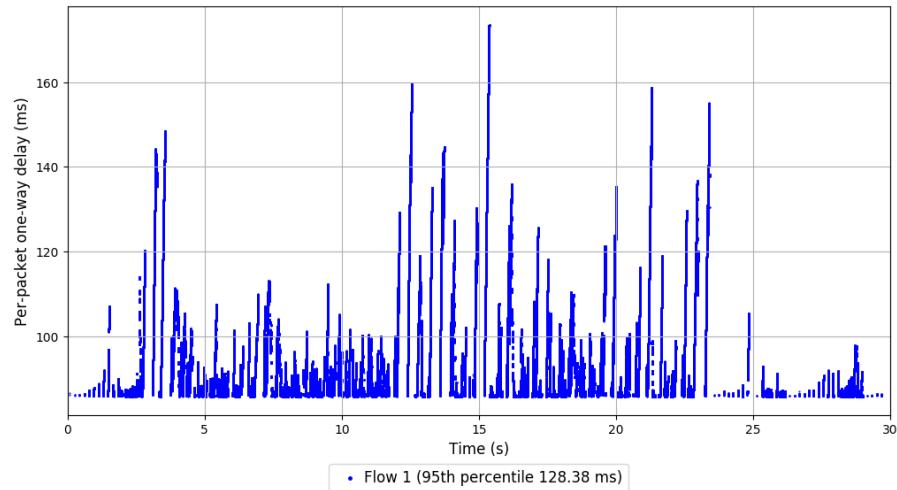
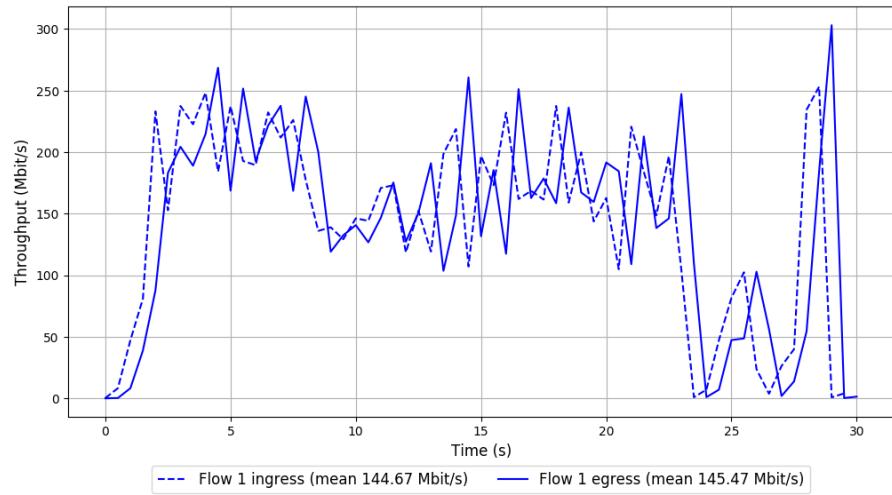


Run 1: Statistics of Verus

```
Start at: 2019-03-18 17:48:50
End at: 2019-03-18 17:49:20
Local clock offset: 3.836 ms
Remote clock offset: 4.348 ms

# Below is generated by plot.py at 2019-03-18 22:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.47 Mbit/s
95th percentile per-packet one-way delay: 128.377 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 145.47 Mbit/s
95th percentile per-packet one-way delay: 128.377 ms
Loss rate: 0.04%
```

Run 1: Report of Verus — Data Link

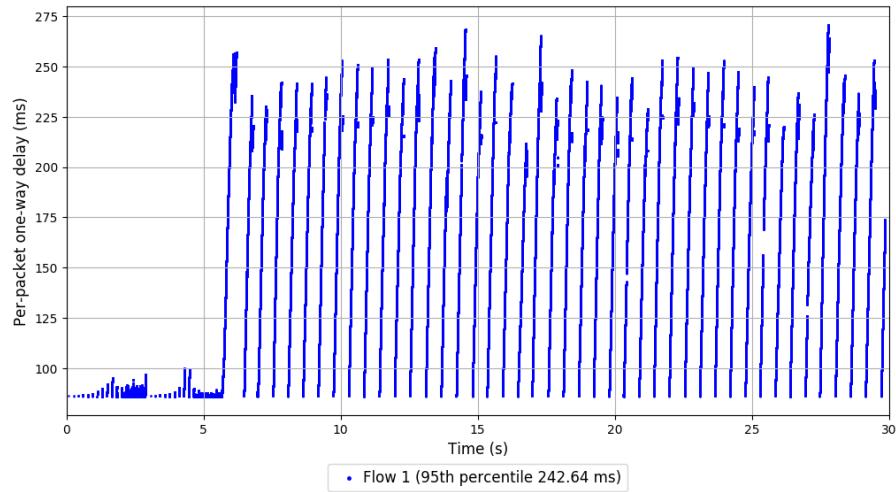
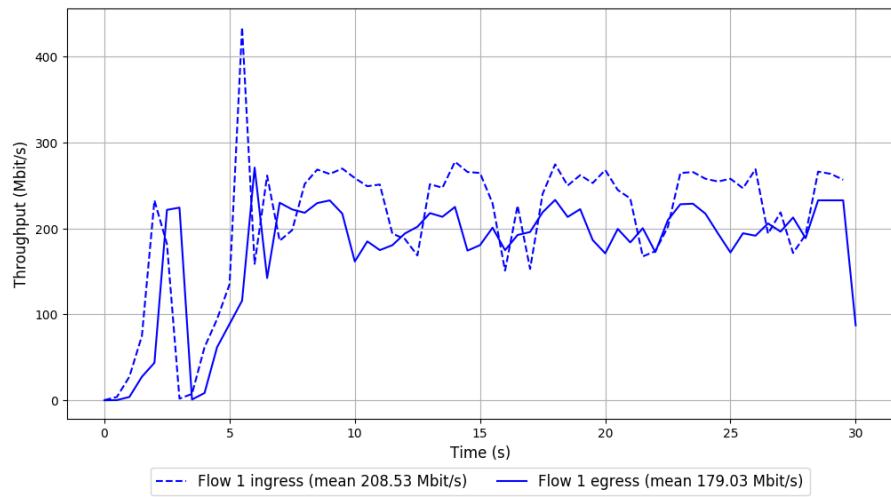


Run 2: Statistics of Verus

```
Start at: 2019-03-18 18:20:14
End at: 2019-03-18 18:20:44
Local clock offset: 25.963 ms
Remote clock offset: 28.905 ms

# Below is generated by plot.py at 2019-03-18 22:13:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.03 Mbit/s
95th percentile per-packet one-way delay: 242.642 ms
Loss rate: 14.30%
-- Flow 1:
Average throughput: 179.03 Mbit/s
95th percentile per-packet one-way delay: 242.642 ms
Loss rate: 14.30%
```

Run 2: Report of Verus — Data Link

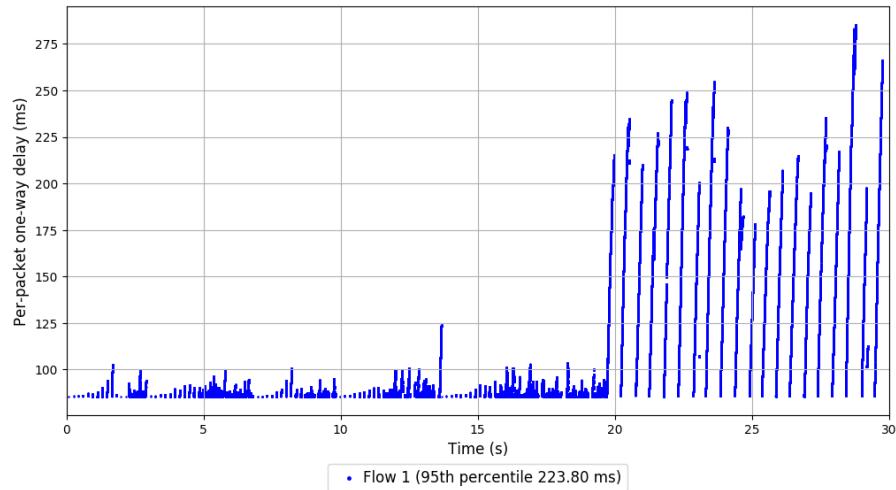
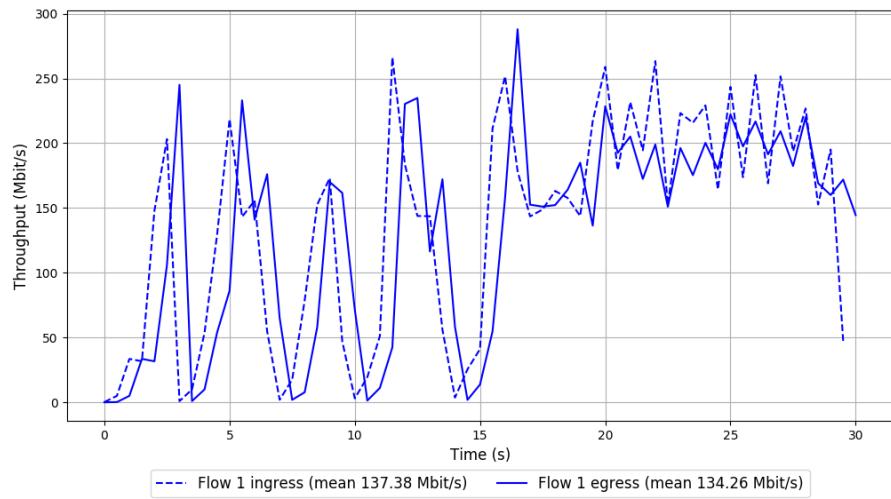


Run 3: Statistics of Verus

```
Start at: 2019-03-18 18:51:39
End at: 2019-03-18 18:52:09
Local clock offset: 35.968 ms
Remote clock offset: 40.012 ms

# Below is generated by plot.py at 2019-03-18 22:13:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.26 Mbit/s
95th percentile per-packet one-way delay: 223.803 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 134.26 Mbit/s
95th percentile per-packet one-way delay: 223.803 ms
Loss rate: 3.18%
```

Run 3: Report of Verus — Data Link

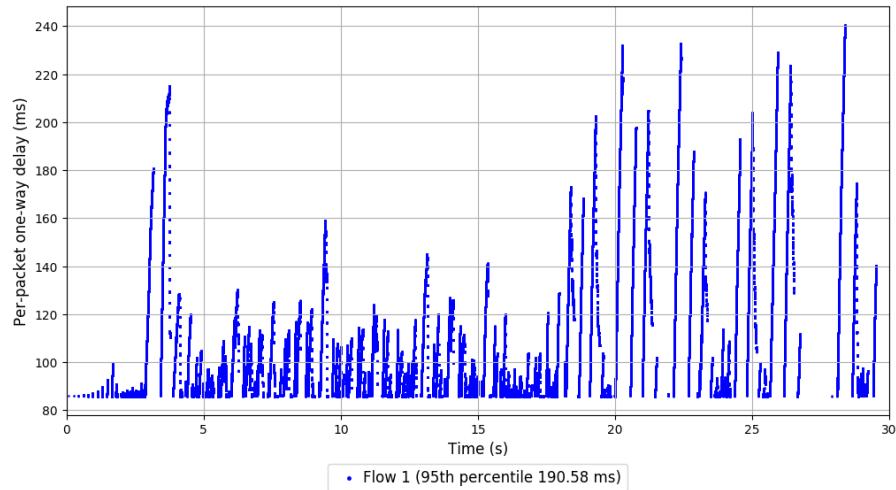
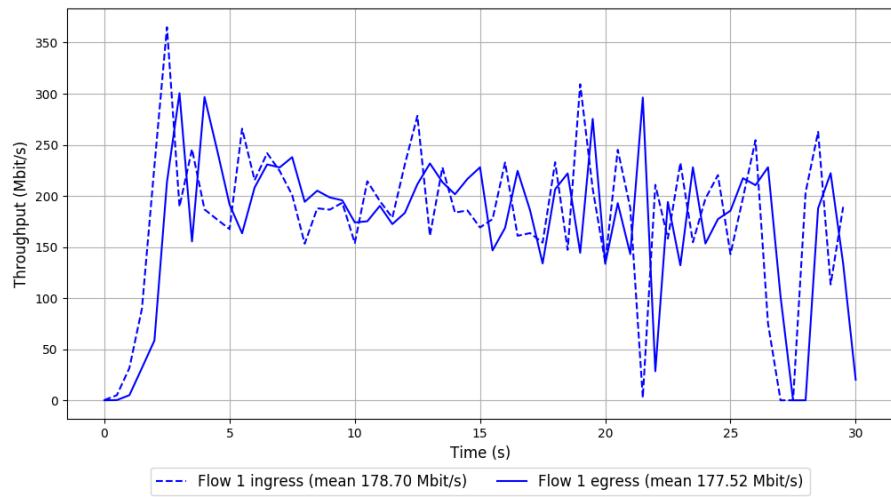


Run 4: Statistics of Verus

```
Start at: 2019-03-18 19:23:16
End at: 2019-03-18 19:23:46
Local clock offset: 17.15 ms
Remote clock offset: 19.443 ms

# Below is generated by plot.py at 2019-03-18 22:13:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.52 Mbit/s
95th percentile per-packet one-way delay: 190.579 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 177.52 Mbit/s
95th percentile per-packet one-way delay: 190.579 ms
Loss rate: 2.36%
```

Run 4: Report of Verus — Data Link

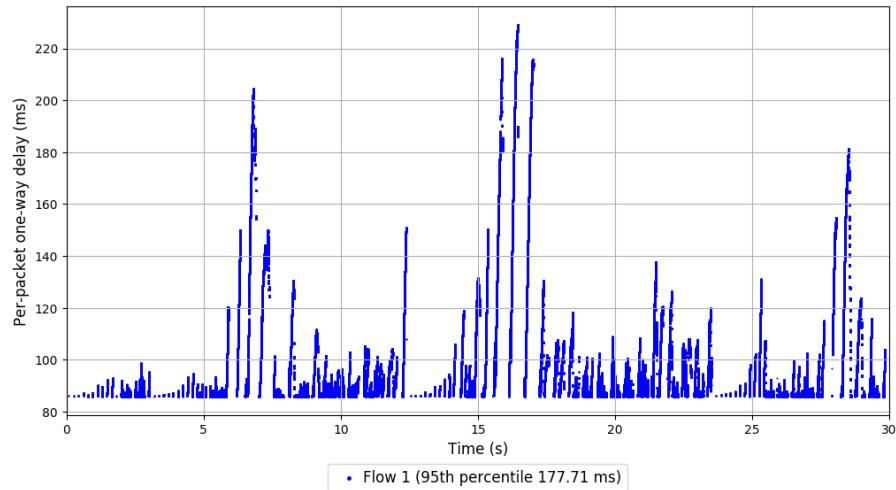
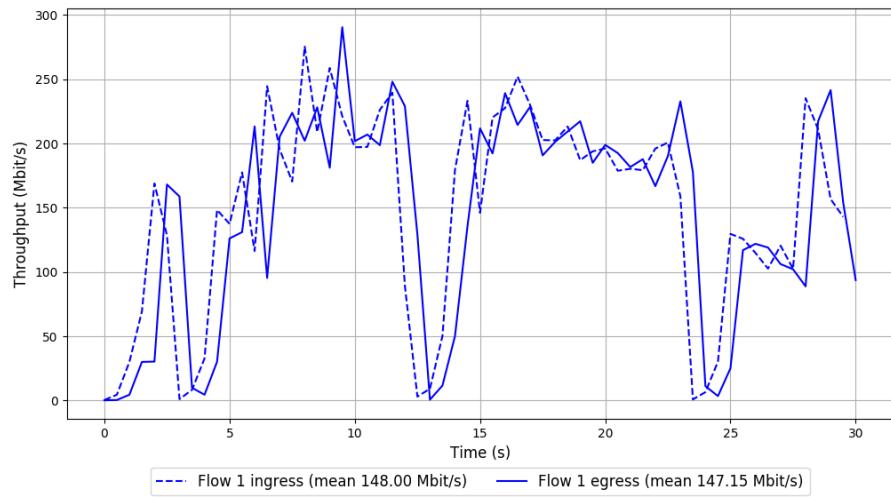


Run 5: Statistics of Verus

```
Start at: 2019-03-18 19:54:37
End at: 2019-03-18 19:55:07
Local clock offset: 7.945 ms
Remote clock offset: 8.759 ms

# Below is generated by plot.py at 2019-03-18 22:15:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.15 Mbit/s
95th percentile per-packet one-way delay: 177.710 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 147.15 Mbit/s
95th percentile per-packet one-way delay: 177.710 ms
Loss rate: 1.15%
```

Run 5: Report of Verus — Data Link

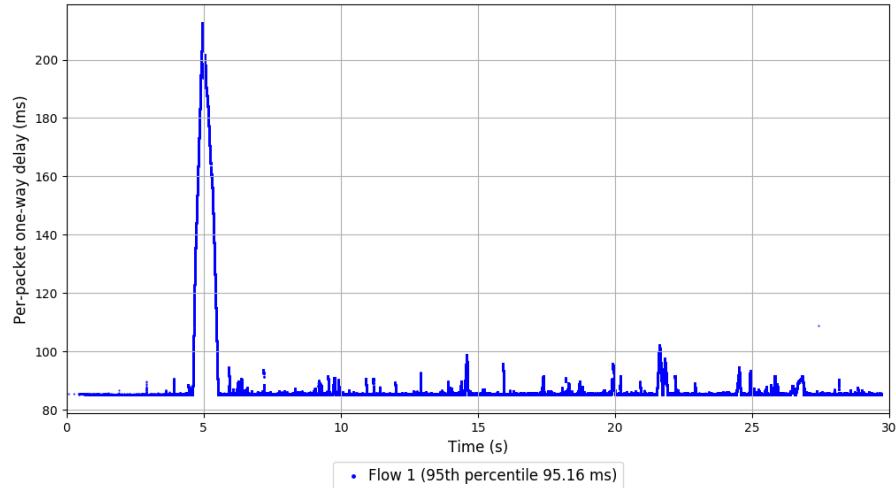
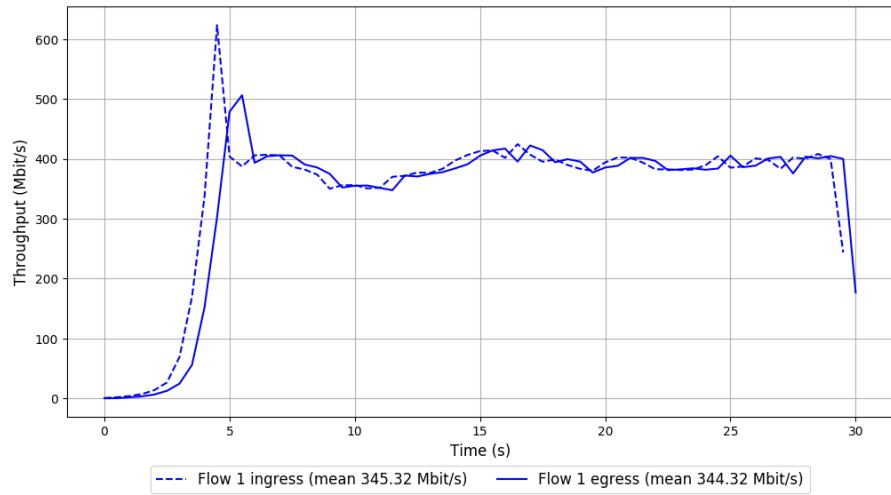


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-03-18 18:11:00
End at: 2019-03-18 18:11:30
Local clock offset: 14.131 ms
Remote clock offset: 16.198 ms

# Below is generated by plot.py at 2019-03-18 22:17:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 344.32 Mbit/s
95th percentile per-packet one-way delay: 95.164 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 344.32 Mbit/s
95th percentile per-packet one-way delay: 95.164 ms
Loss rate: 0.87%
```

Run 1: Report of PCC-Vivace — Data Link

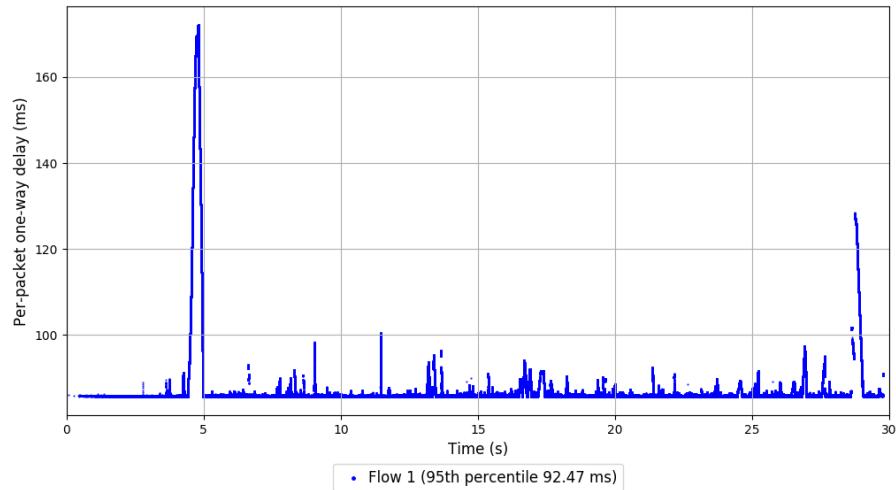
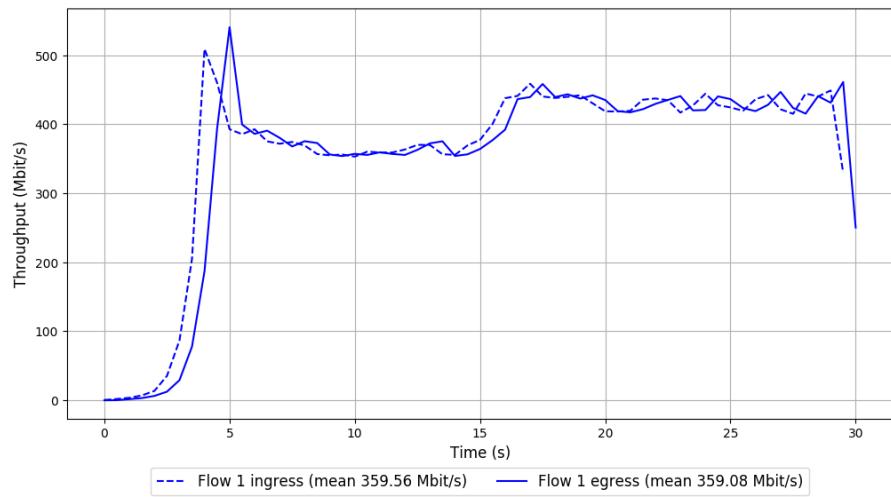


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-18 18:42:24
End at: 2019-03-18 18:42:54
Local clock offset: 26.988 ms
Remote clock offset: 29.853 ms

# Below is generated by plot.py at 2019-03-18 22:17:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.08 Mbit/s
95th percentile per-packet one-way delay: 92.475 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 359.08 Mbit/s
95th percentile per-packet one-way delay: 92.475 ms
Loss rate: 0.71%
```

Run 2: Report of PCC-Vivace — Data Link

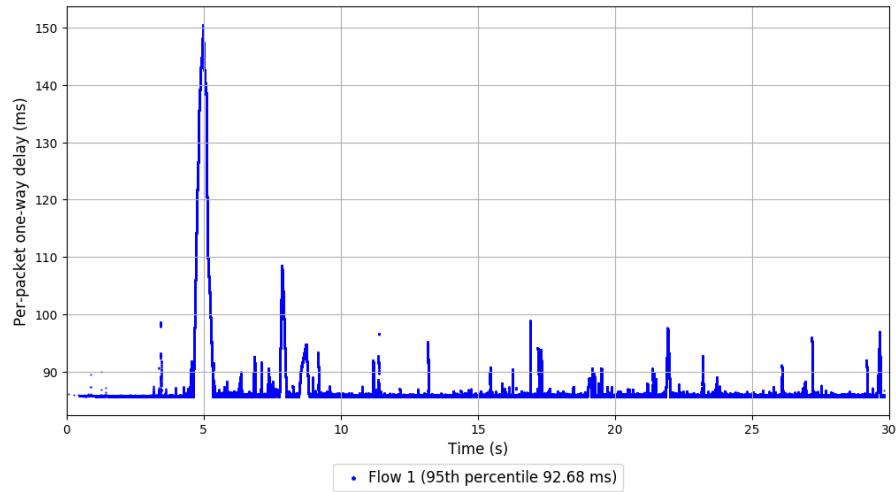
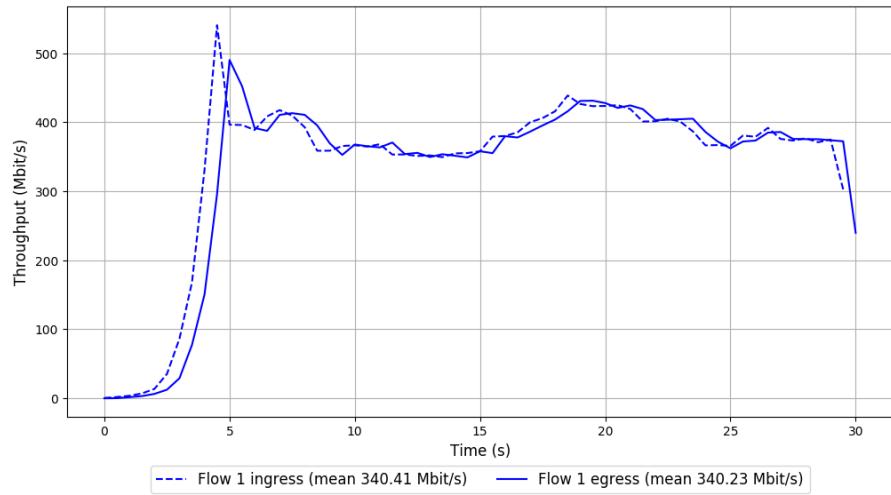


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-18 19:13:46
End at: 2019-03-18 19:14:16
Local clock offset: 14.651 ms
Remote clock offset: 16.488 ms

# Below is generated by plot.py at 2019-03-18 22:17:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.23 Mbit/s
95th percentile per-packet one-way delay: 92.678 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 340.23 Mbit/s
95th percentile per-packet one-way delay: 92.678 ms
Loss rate: 0.63%
```

Run 3: Report of PCC-Vivace — Data Link

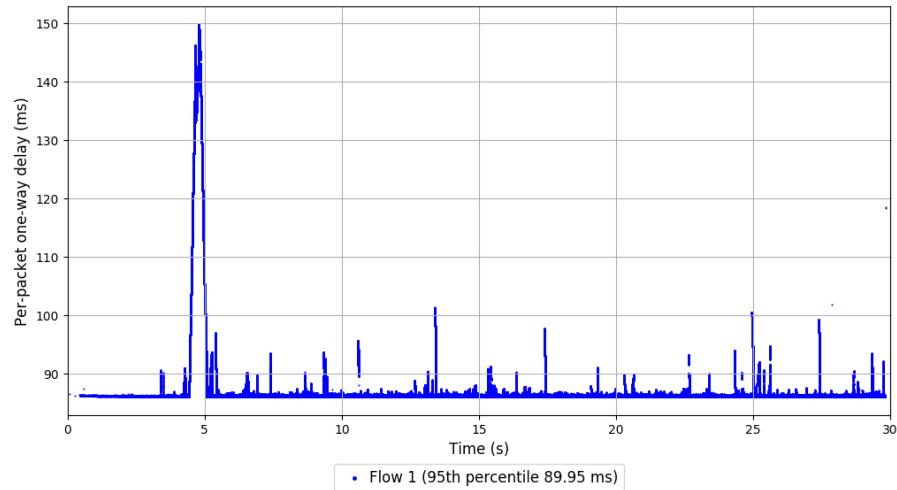
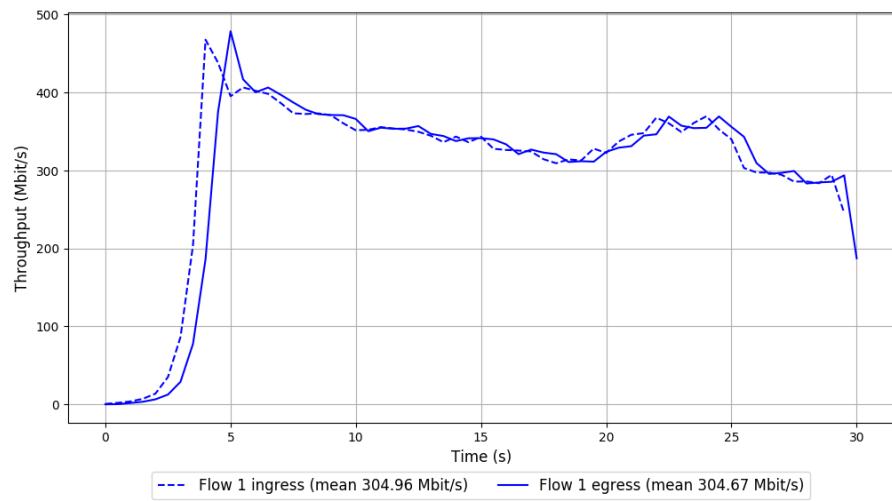


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-18 19:45:27
End at: 2019-03-18 19:45:57
Local clock offset: 7.681 ms
Remote clock offset: 7.996 ms

# Below is generated by plot.py at 2019-03-18 22:17:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.67 Mbit/s
95th percentile per-packet one-way delay: 89.948 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 304.67 Mbit/s
95th percentile per-packet one-way delay: 89.948 ms
Loss rate: 0.60%
```

Run 4: Report of PCC-Vivace — Data Link

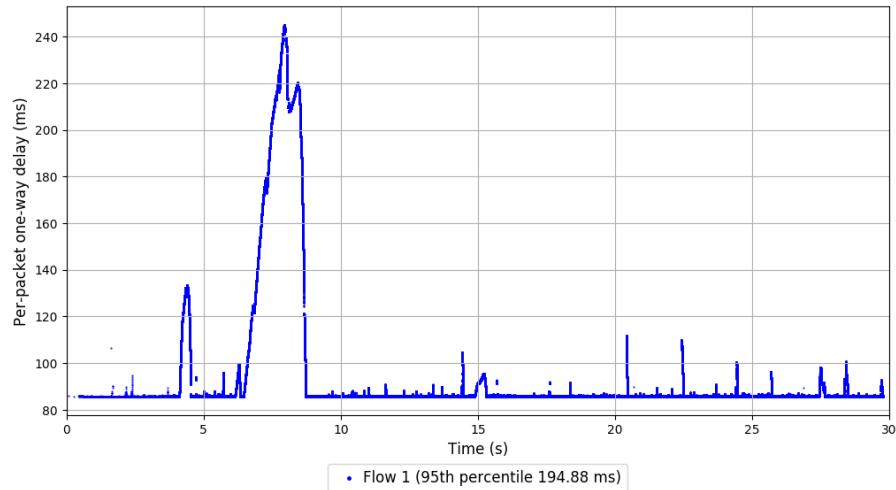
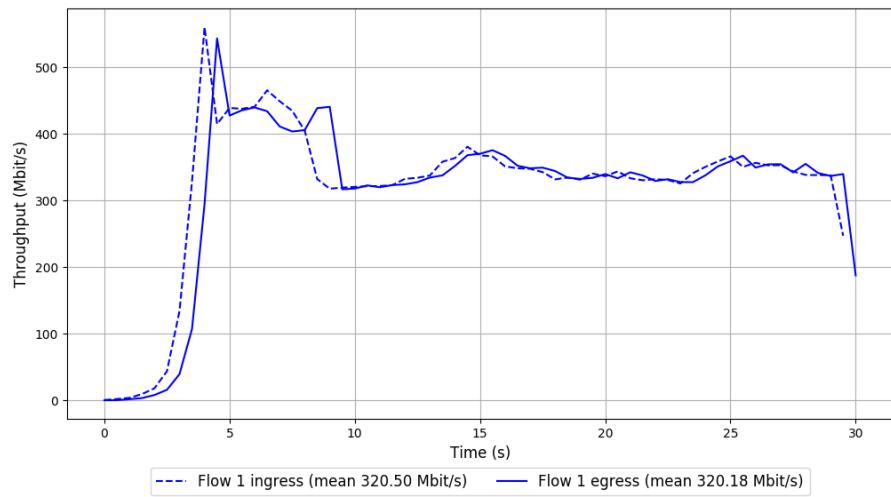


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-18 20:16:45
End at: 2019-03-18 20:17:15
Local clock offset: 2.386 ms
Remote clock offset: 3.932 ms

# Below is generated by plot.py at 2019-03-18 22:17:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 320.18 Mbit/s
95th percentile per-packet one-way delay: 194.881 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 320.18 Mbit/s
95th percentile per-packet one-way delay: 194.881 ms
Loss rate: 0.68%
```

Run 5: Report of PCC-Vivace — Data Link

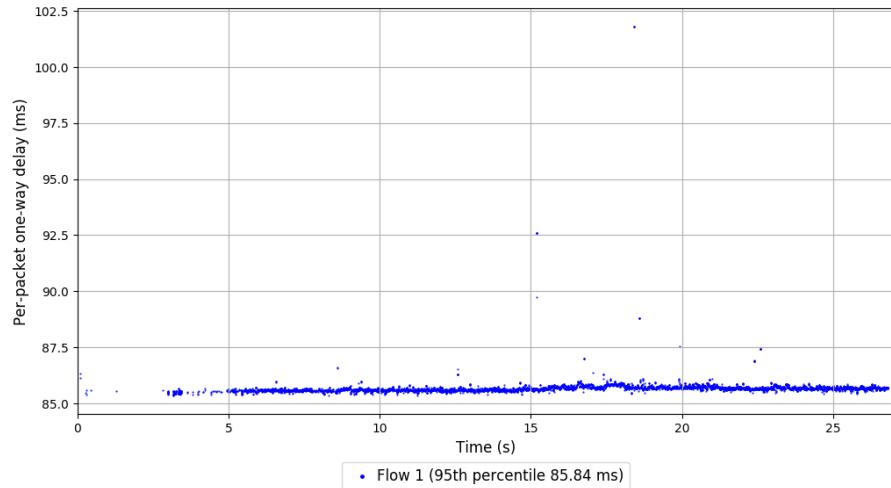
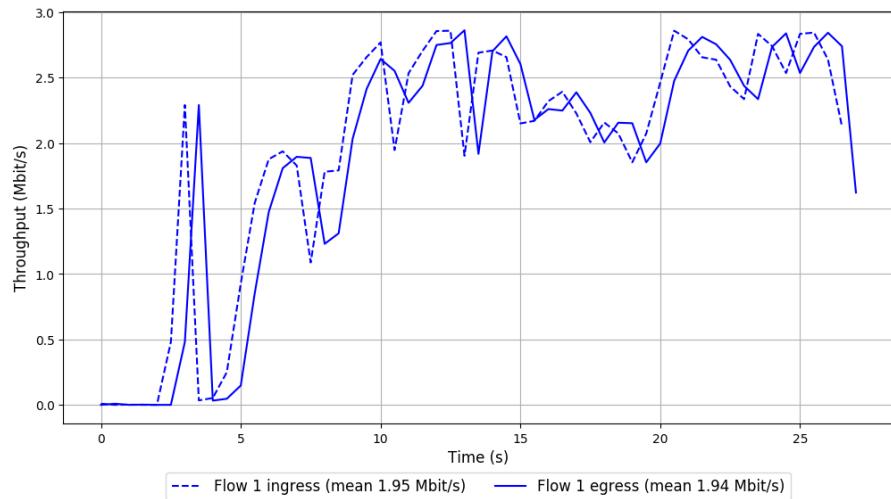


```
Run 1: Statistics of WebRTC media

Start at: 2019-03-18 18:01:35
End at: 2019-03-18 18:02:05
Local clock offset: 14.135 ms
Remote clock offset: 16.212 ms

# Below is generated by plot.py at 2019-03-18 22:17:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 85.845 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 85.845 ms
Loss rate: 0.87%
```

Run 1: Report of WebRTC media — Data Link

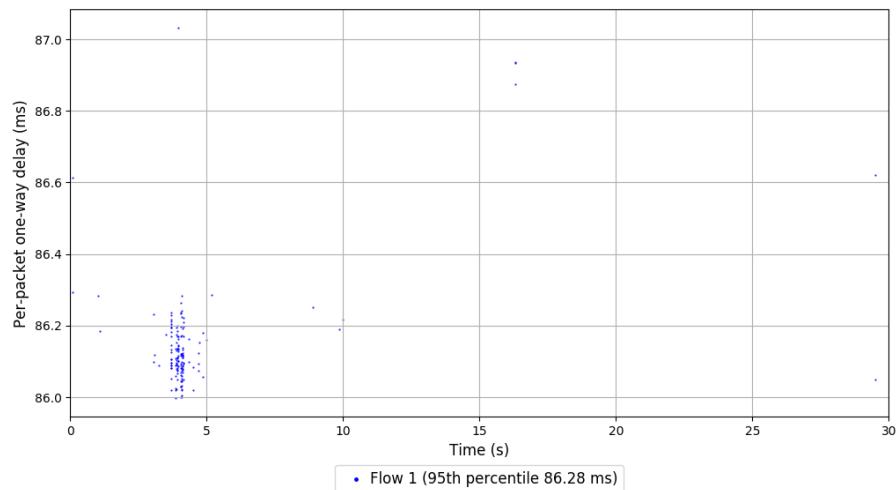
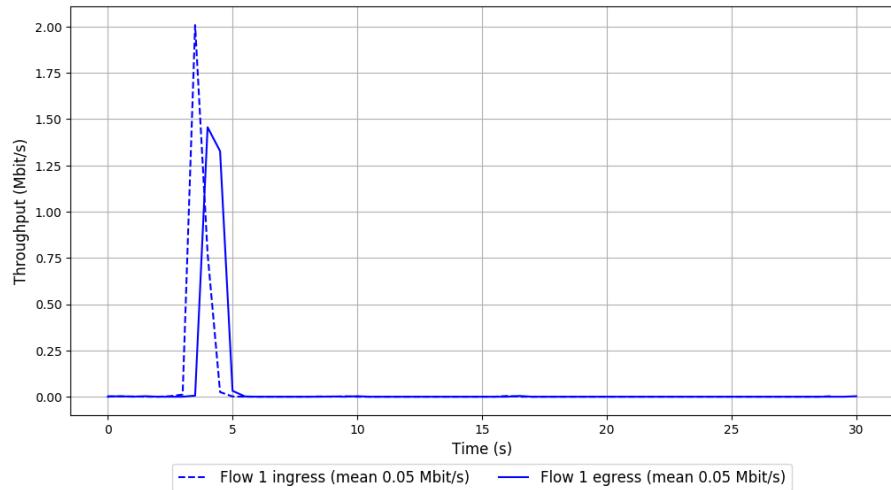


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-18 18:32:58
End at: 2019-03-18 18:33:28
Local clock offset: 20.489 ms
Remote clock offset: 22.438 ms

# Below is generated by plot.py at 2019-03-18 22:17:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.283 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.283 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

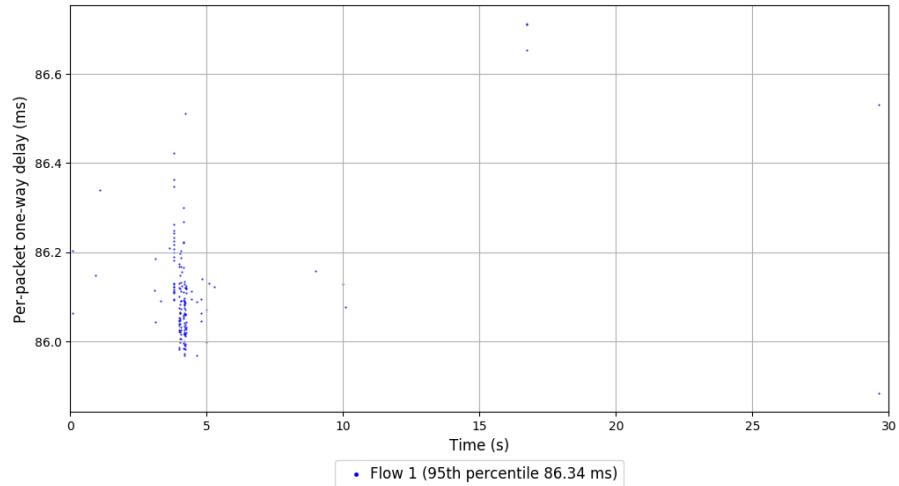
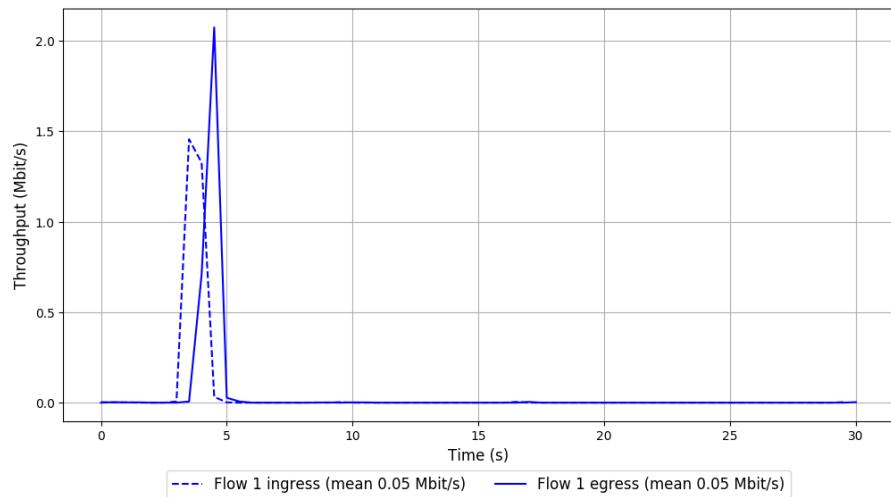


Run 3: Statistics of WebRTC media

```
Start at: 2019-03-18 19:04:24
End at: 2019-03-18 19:04:54
Local clock offset: 17.574 ms
Remote clock offset: 19.573 ms

# Below is generated by plot.py at 2019-03-18 22:17:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.339 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.339 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

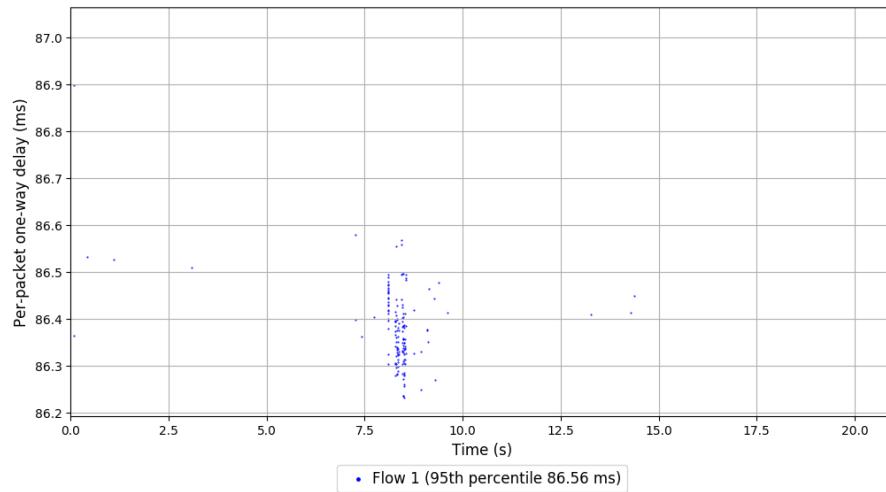
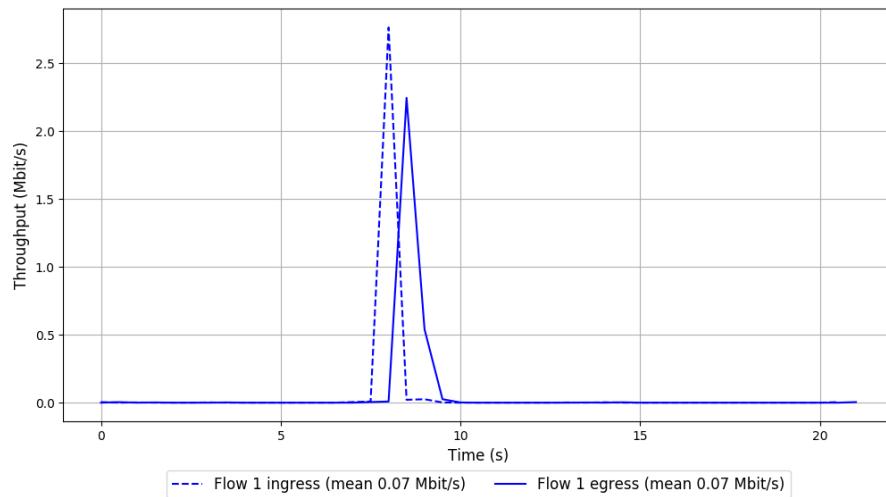
Start at: 2019-03-18 19:36:03

End at: 2019-03-18 19:36:33

Local clock offset: 10.623 ms

Remote clock offset: 11.353 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-18 20:07:24

End at: 2019-03-18 20:07:54

Local clock offset: 6.235 ms

Remote clock offset: 6.656 ms

Run 5: Report of WebRTC media — Data Link

