

Pantheon Report

Generated at 2019-07-12 02:14:32 (UTC).
Data path: GCE Iowa on `ens4` (*remote*) → GCE Sydney on `ens4` (*local*).
Repeated the test of 24 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:

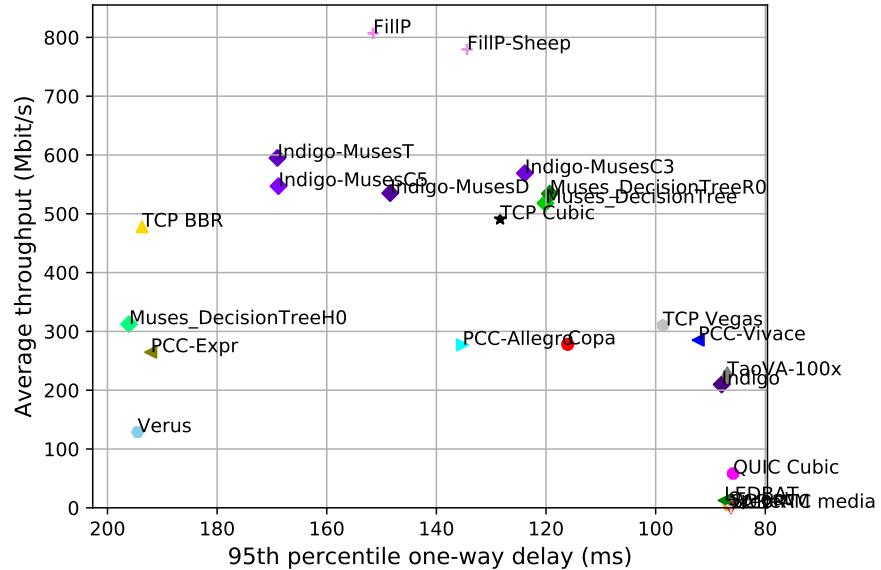
```
Linux 4.15.0-1034-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

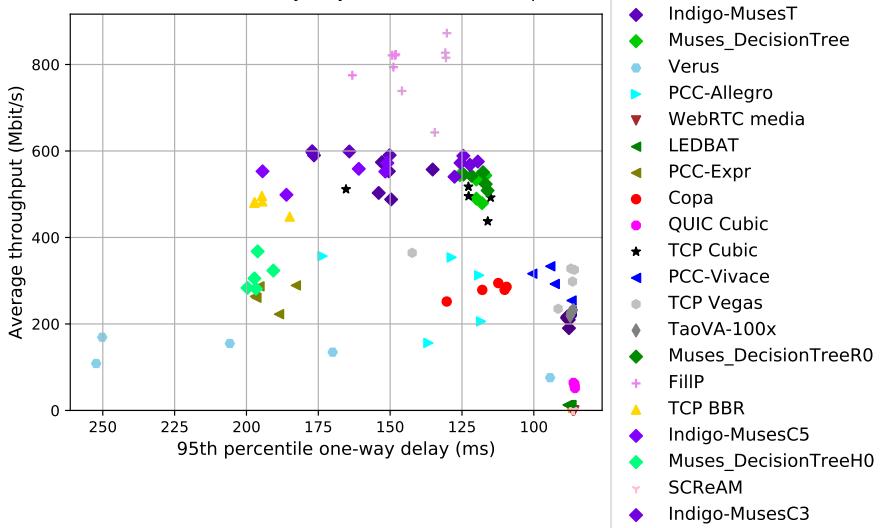
```
branch: muses @ 2076e1149a241f3edb4365d686df32342bf9561f
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 8bb93ffff2b107204a92d8b72449fc0c55e15f00
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from 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  Indigo-MusesD



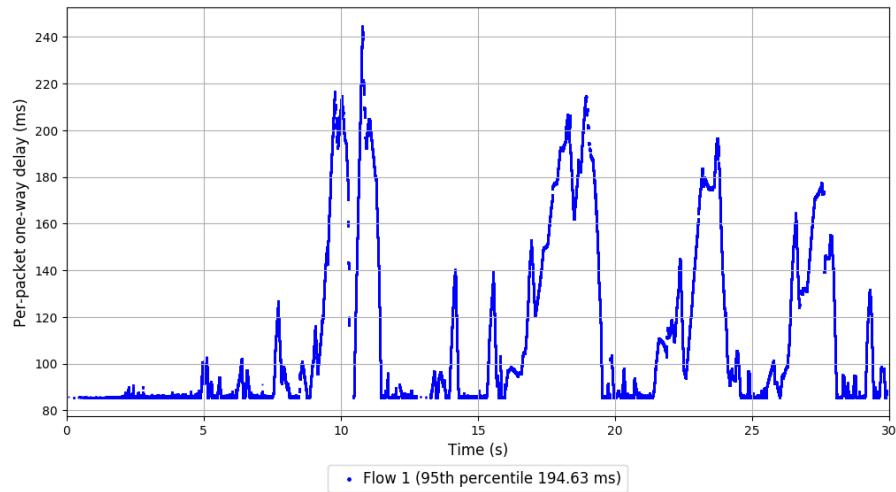
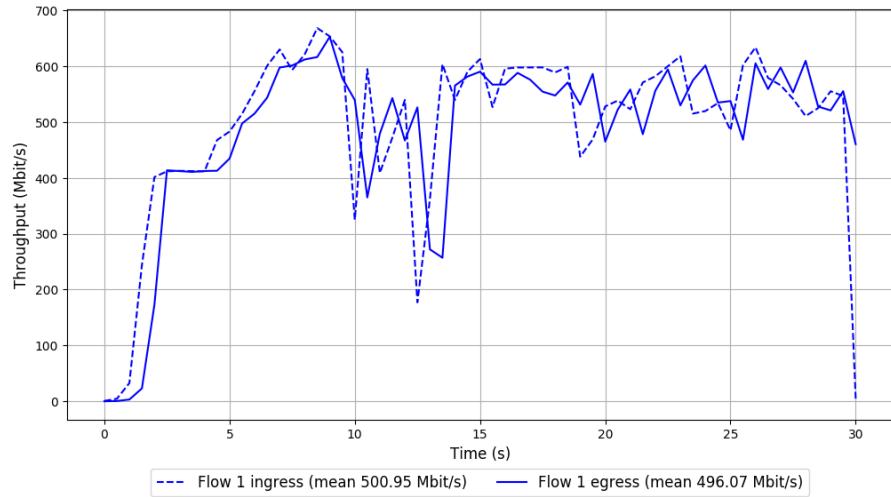
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	477.92	193.69	1.40
Copa	5	277.98	116.05	0.74
TCP Cubic	5	490.85	128.37	0.56
FillP	5	806.97	151.54	2.38
FillP-Sheep	5	779.43	134.40	0.91
Indigo	5	209.63	87.97	0.71
Indigo-MusesC3	5	569.02	123.87	0.72
Indigo-MusesC5	5	547.00	168.81	1.35
Indigo-MusesD	5	535.04	148.43	0.66
Indigo-MusesT	5	594.94	169.00	0.92
LEDBAT	5	12.52	87.51	1.15
Muses_DecisionTree	5	518.15	120.12	0.97
Muses_DecisionTreeH0	5	312.35	196.07	9.82
Muses_DecisionTreeR0	5	534.23	119.32	0.81
PCC-Allegro	5	277.07	135.23	1.45
PCC-Expr	5	264.62	192.11	2.03
QUIC Cubic	5	58.25	85.87	0.93
SCReAM	5	0.22	86.24	0.54
Sprout	5	4.21	86.69	0.69
TaoVA-100x	5	225.43	86.94	0.89
TCP Vegas	5	310.17	98.68	0.55
Verus	5	128.65	194.52	3.06
PCC-Vivace	5	285.13	92.24	0.76
WebRTC media	5	0.05	86.25	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-07-11 21:36:31
End at: 2019-07-11 21:37:01
Local clock offset: 0.691 ms
Remote clock offset: 0.89 ms

# Below is generated by plot.py at 2019-07-12 00:29:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 496.07 Mbit/s
95th percentile per-packet one-way delay: 194.627 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 496.07 Mbit/s
95th percentile per-packet one-way delay: 194.627 ms
Loss rate: 1.55%
```

Run 1: Report of TCP BBR — Data Link

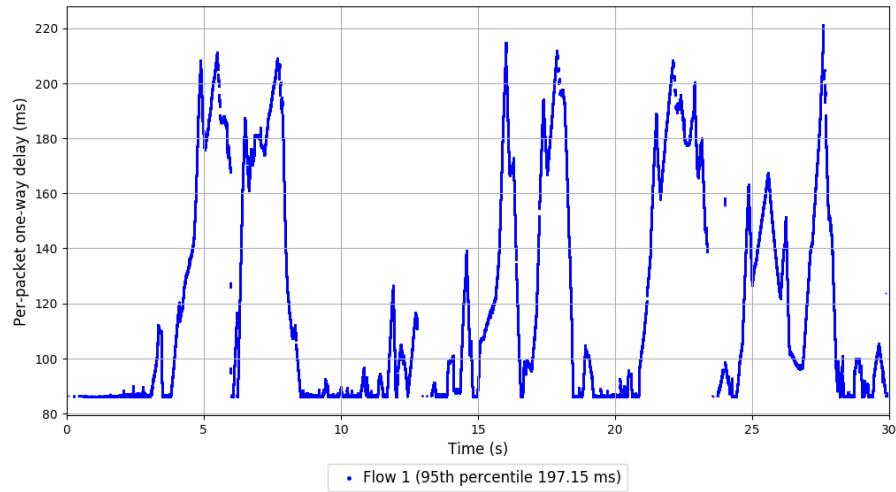
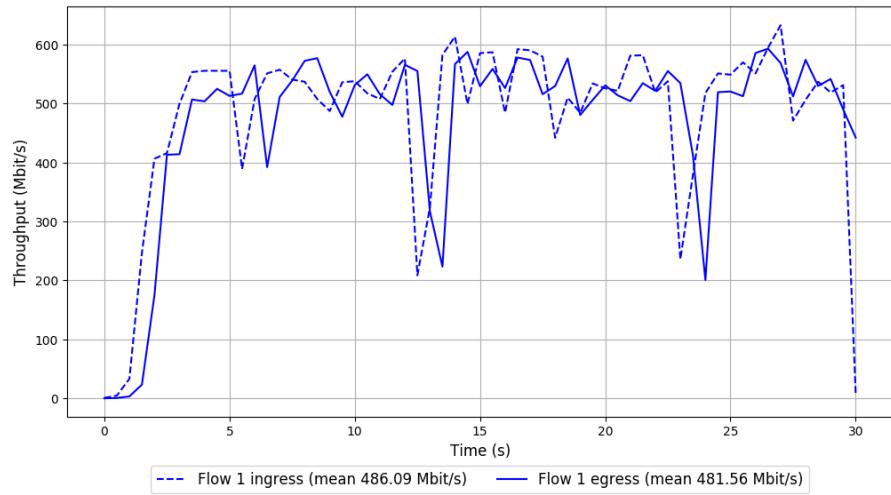


Run 2: Statistics of TCP BBR

```
Start at: 2019-07-11 22:12:02
End at: 2019-07-11 22:12:32
Local clock offset: 0.526 ms
Remote clock offset: 0.442 ms

# Below is generated by plot.py at 2019-07-12 00:29:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 481.56 Mbit/s
95th percentile per-packet one-way delay: 197.149 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 481.56 Mbit/s
95th percentile per-packet one-way delay: 197.149 ms
Loss rate: 1.51%
```

Run 2: Report of TCP BBR — Data Link

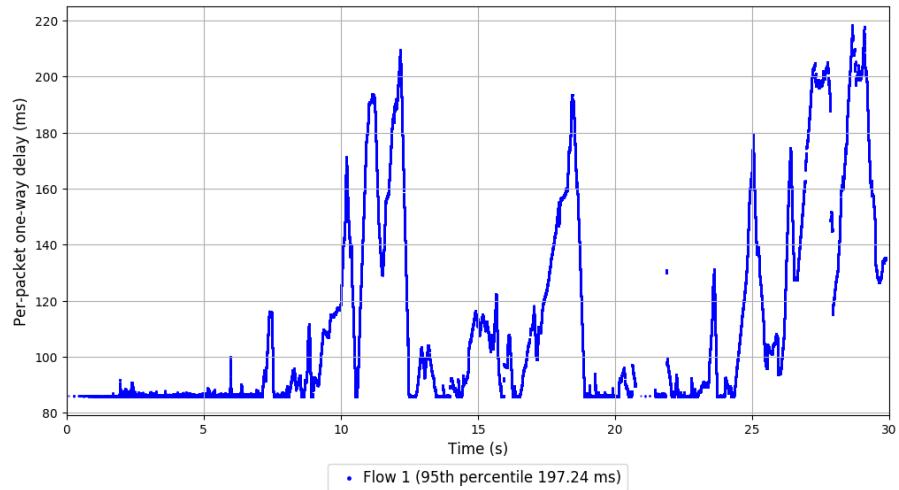
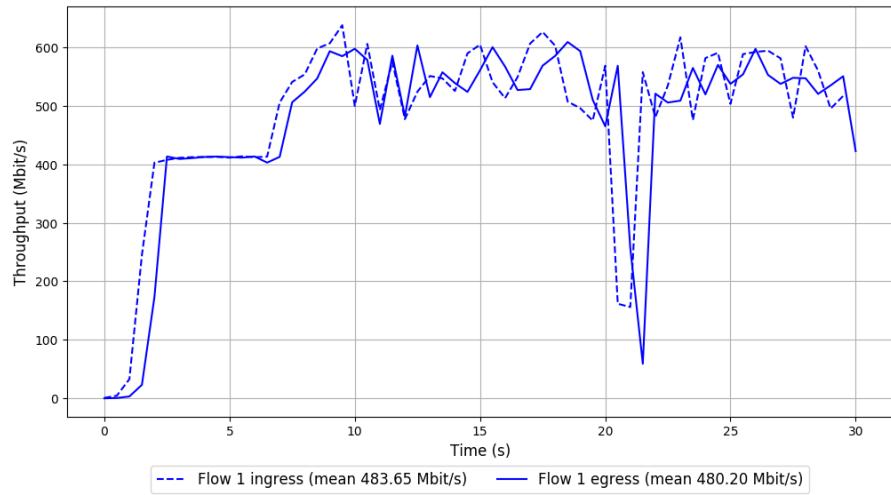


Run 3: Statistics of TCP BBR

```
Start at: 2019-07-11 22:47:35
End at: 2019-07-11 22:48:05
Local clock offset: 0.083 ms
Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2019-07-12 00:29:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 480.20 Mbit/s
95th percentile per-packet one-way delay: 197.235 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 480.20 Mbit/s
95th percentile per-packet one-way delay: 197.235 ms
Loss rate: 1.29%
```

Run 3: Report of TCP BBR — Data Link

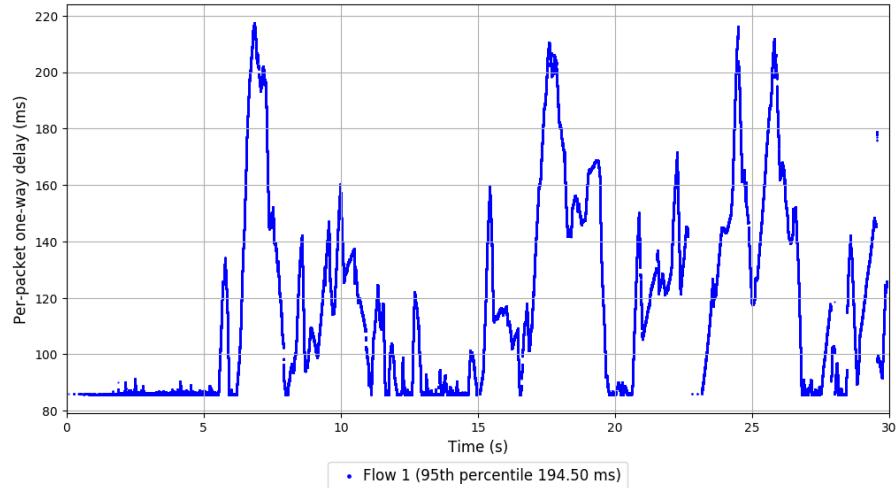
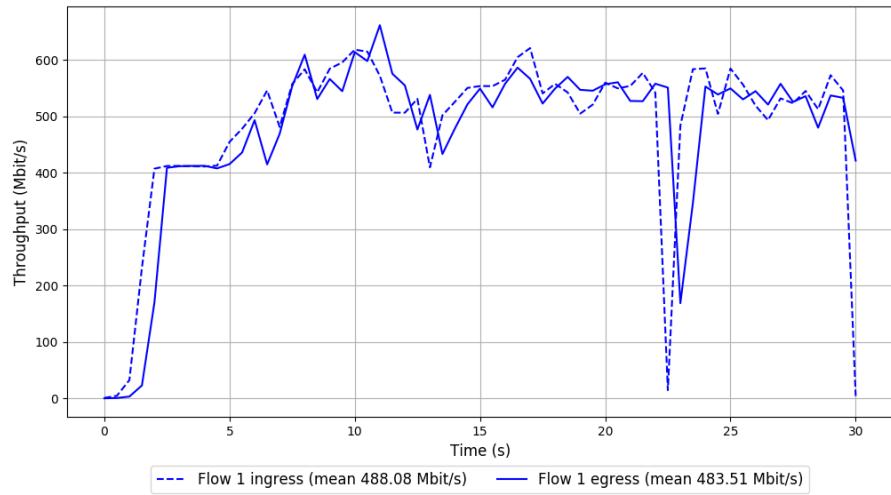


Run 4: Statistics of TCP BBR

```
Start at: 2019-07-11 23:22:57
End at: 2019-07-11 23:23:27
Local clock offset: -0.321 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2019-07-12 00:29:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 483.51 Mbit/s
95th percentile per-packet one-way delay: 194.497 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 483.51 Mbit/s
95th percentile per-packet one-way delay: 194.497 ms
Loss rate: 1.51%
```

Run 4: Report of TCP BBR — Data Link

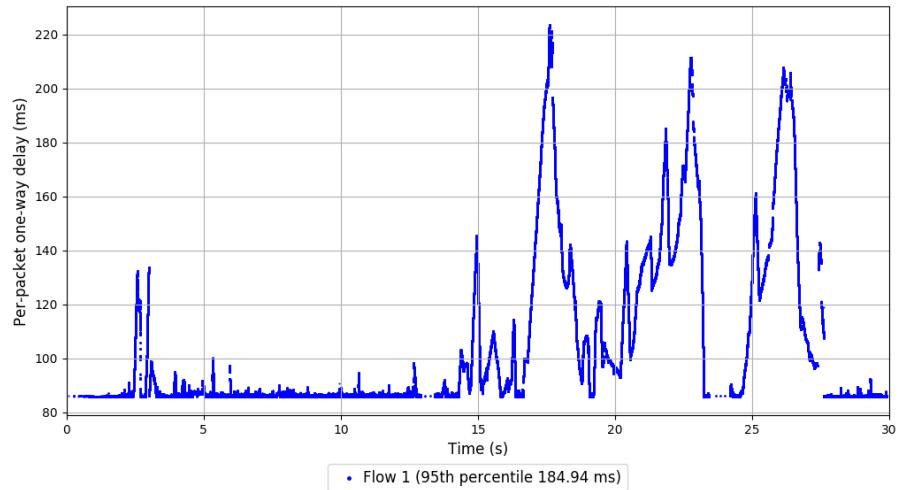
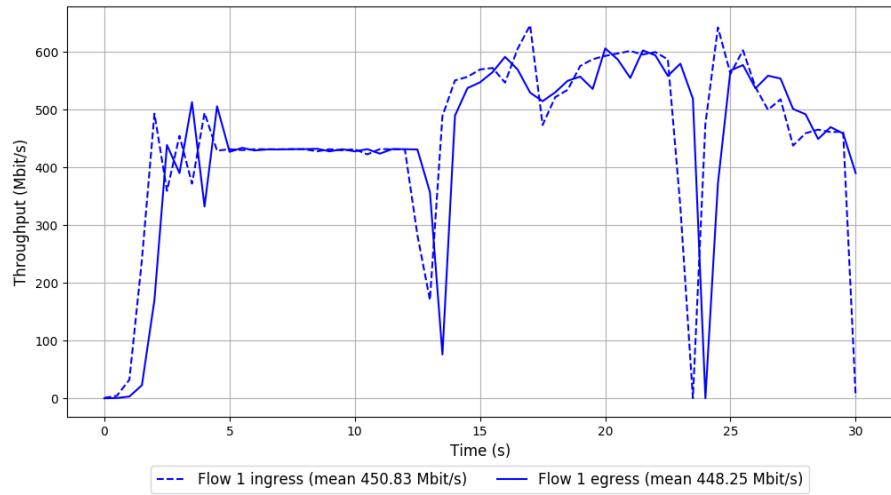


Run 5: Statistics of TCP BBR

```
Start at: 2019-07-11 23:58:34
End at: 2019-07-11 23:59:04
Local clock offset: -0.037 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-07-12 00:29:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 448.25 Mbit/s
95th percentile per-packet one-way delay: 184.939 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 448.25 Mbit/s
95th percentile per-packet one-way delay: 184.939 ms
Loss rate: 1.15%
```

Run 5: Report of TCP BBR — Data Link

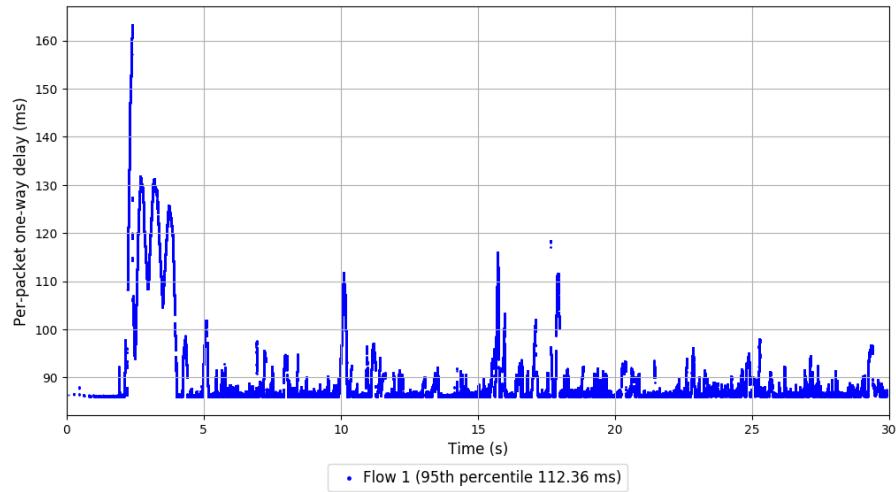
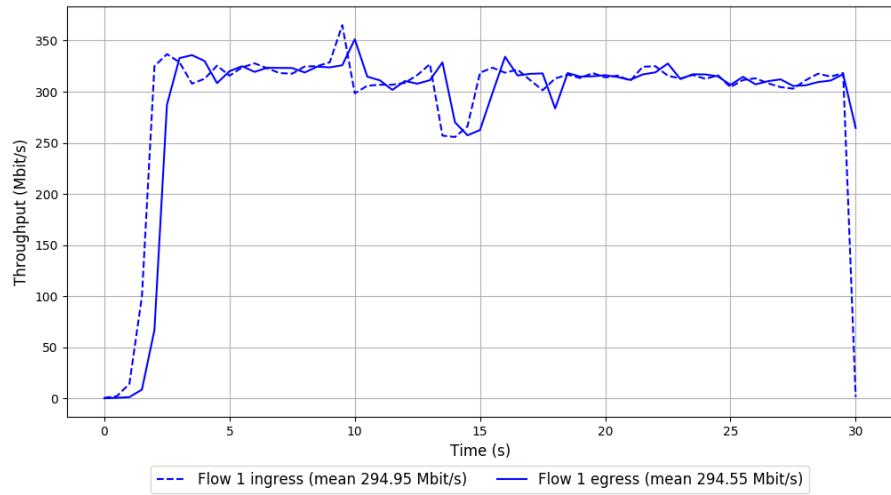


Run 1: Statistics of Copa

```
Start at: 2019-07-11 21:24:09
End at: 2019-07-11 21:24:39
Local clock offset: 2.877 ms
Remote clock offset: 1.6 ms

# Below is generated by plot.py at 2019-07-12 00:30:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 294.55 Mbit/s
95th percentile per-packet one-way delay: 112.364 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 294.55 Mbit/s
95th percentile per-packet one-way delay: 112.364 ms
Loss rate: 0.71%
```

Run 1: Report of Copa — Data Link

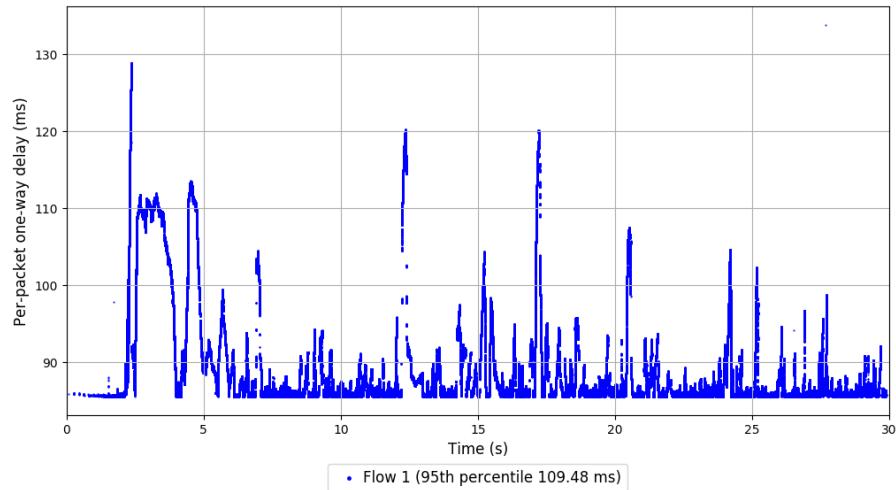
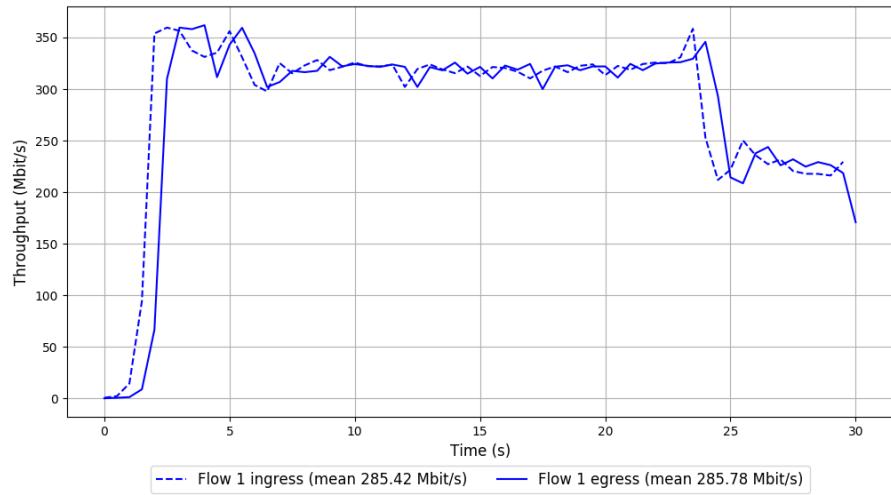


Run 2: Statistics of Copa

```
Start at: 2019-07-11 21:59:56
End at: 2019-07-11 22:00:26
Local clock offset: 0.292 ms
Remote clock offset: 0.667 ms

# Below is generated by plot.py at 2019-07-12 00:30:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.78 Mbit/s
95th percentile per-packet one-way delay: 109.483 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 285.78 Mbit/s
95th percentile per-packet one-way delay: 109.483 ms
Loss rate: 0.45%
```

Run 2: Report of Copa — Data Link

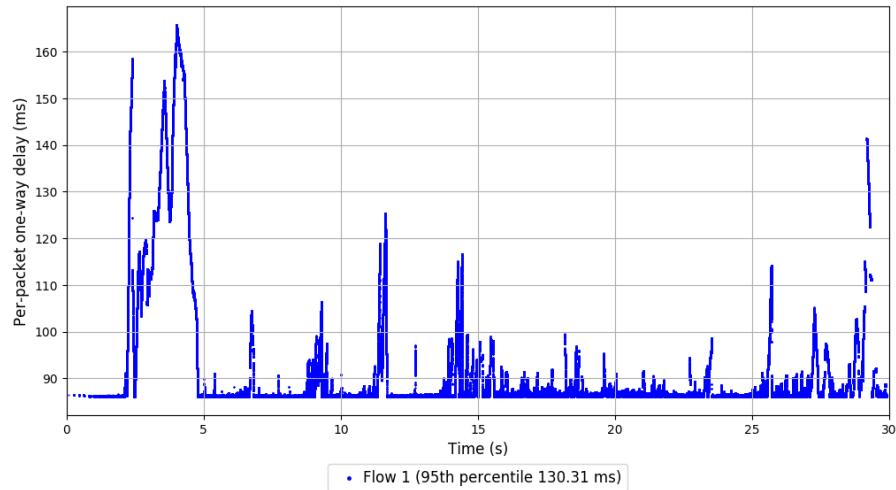
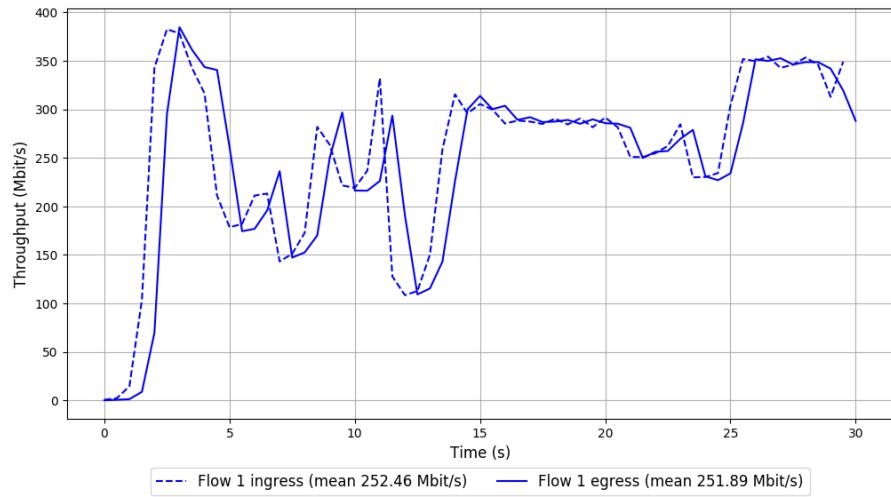


Run 3: Statistics of Copa

```
Start at: 2019-07-11 22:35:18
End at: 2019-07-11 22:35:48
Local clock offset: 0.148 ms
Remote clock offset: 0.271 ms

# Below is generated by plot.py at 2019-07-12 00:30:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.89 Mbit/s
95th percentile per-packet one-way delay: 130.314 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 251.89 Mbit/s
95th percentile per-packet one-way delay: 130.314 ms
Loss rate: 0.80%
```

Run 3: Report of Copa — Data Link

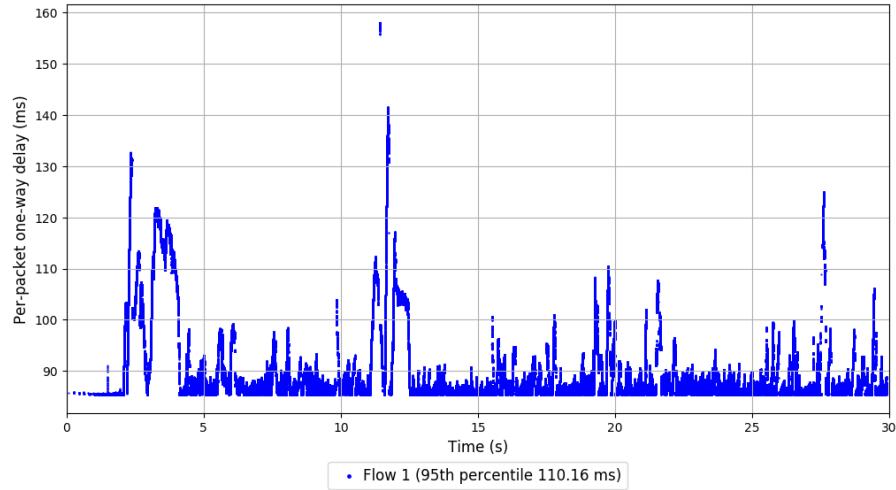
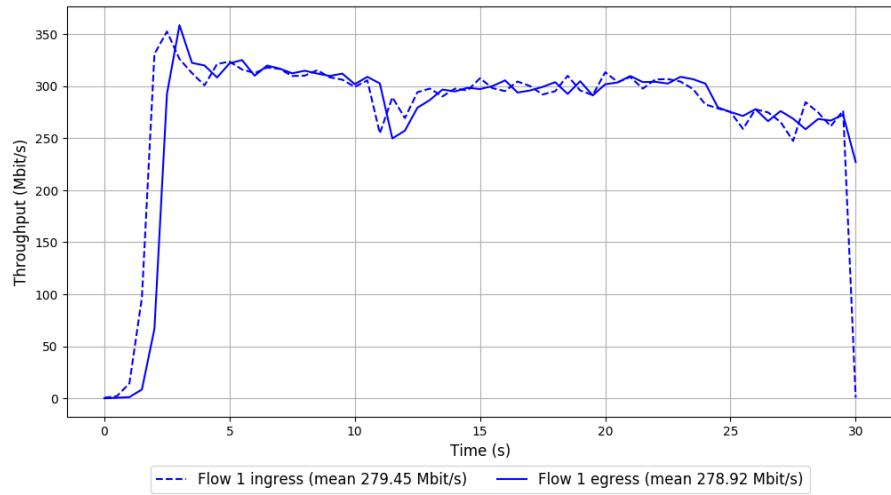


Run 4: Statistics of Copa

```
Start at: 2019-07-11 23:10:45
End at: 2019-07-11 23:11:15
Local clock offset: -0.378 ms
Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2019-07-12 00:37:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.92 Mbit/s
95th percentile per-packet one-way delay: 110.158 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 278.92 Mbit/s
95th percentile per-packet one-way delay: 110.158 ms
Loss rate: 0.76%
```

Run 4: Report of Copa — Data Link

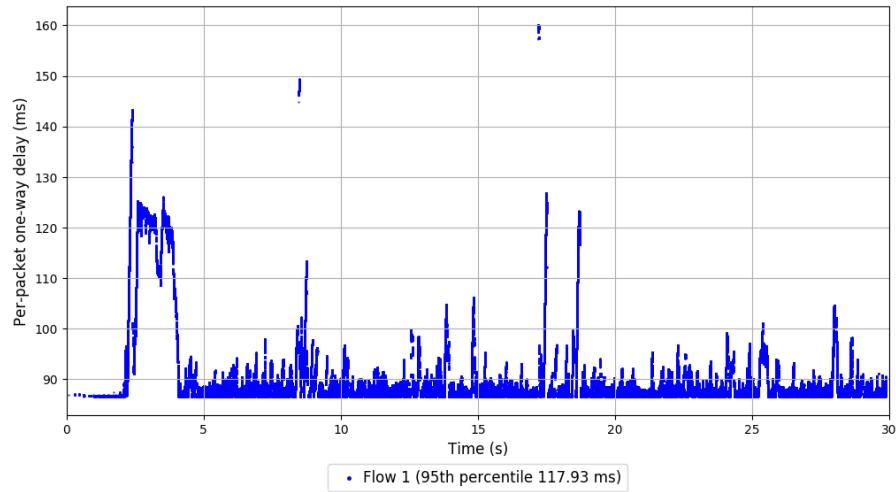
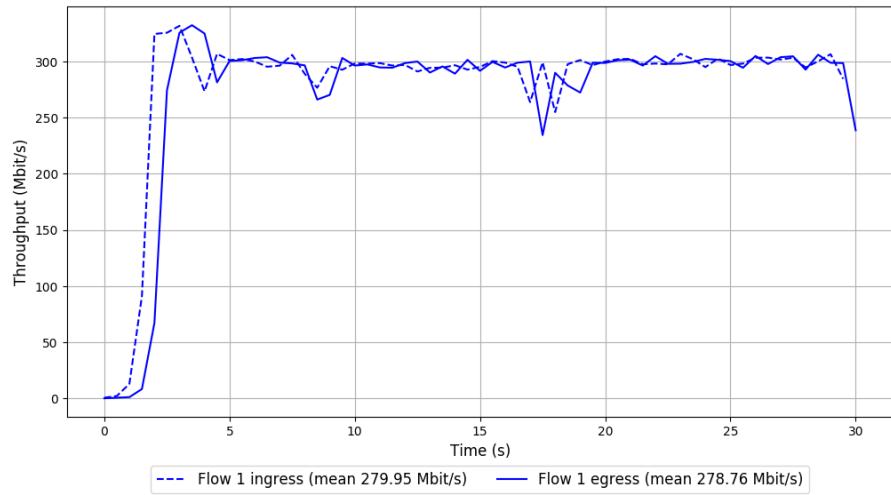


Run 5: Statistics of Copa

```
Start at: 2019-07-11 23:46:18
End at: 2019-07-11 23:46:48
Local clock offset: 0.374 ms
Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-07-12 00:38:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.76 Mbit/s
95th percentile per-packet one-way delay: 117.933 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 278.76 Mbit/s
95th percentile per-packet one-way delay: 117.933 ms
Loss rate: 1.00%
```

Run 5: Report of Copa — Data Link

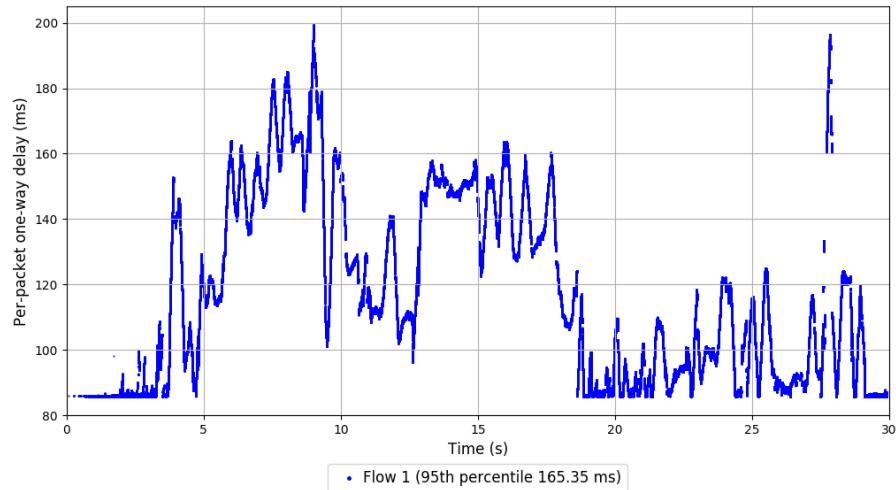
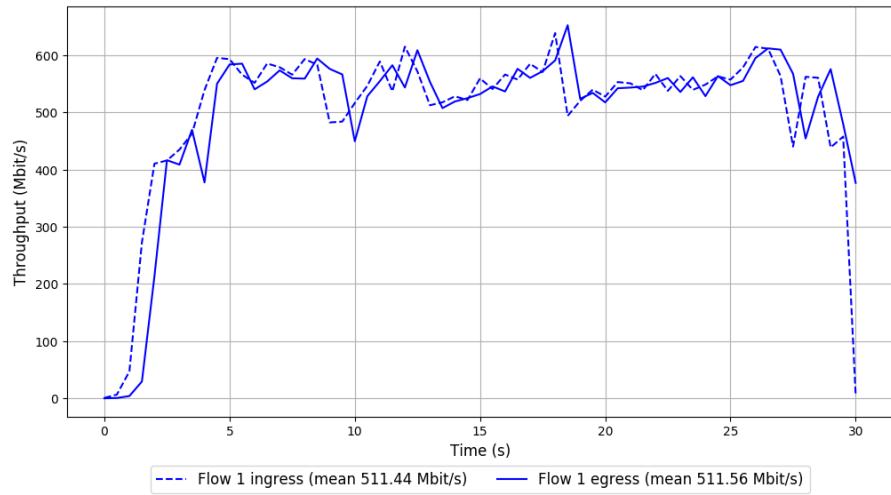


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-07-11 21:38:08
End at: 2019-07-11 21:38:38
Local clock offset: 0.968 ms
Remote clock offset: 0.879 ms

# Below is generated by plot.py at 2019-07-12 00:38:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 511.56 Mbit/s
95th percentile per-packet one-way delay: 165.353 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 511.56 Mbit/s
95th percentile per-packet one-way delay: 165.353 ms
Loss rate: 0.55%
```

Run 1: Report of TCP Cubic — Data Link

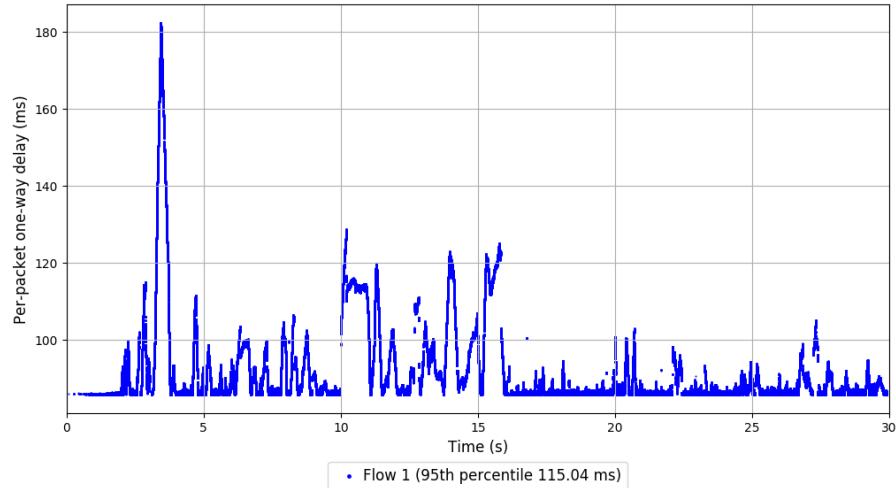
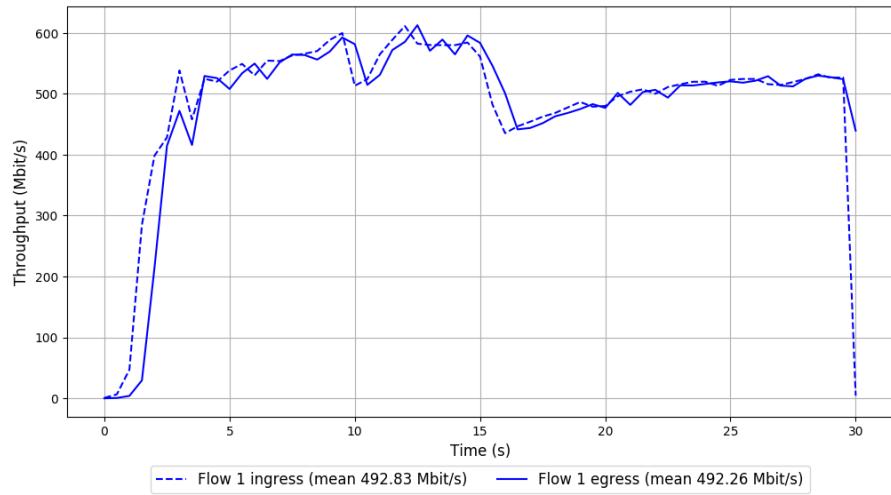


Run 2: Statistics of TCP Cubic

```
Start at: 2019-07-11 22:13:40
End at: 2019-07-11 22:14:11
Local clock offset: 0.292 ms
Remote clock offset: 0.422 ms

# Below is generated by plot.py at 2019-07-12 00:38:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 492.26 Mbit/s
95th percentile per-packet one-way delay: 115.036 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 492.26 Mbit/s
95th percentile per-packet one-way delay: 115.036 ms
Loss rate: 0.69%
```

Run 2: Report of TCP Cubic — Data Link

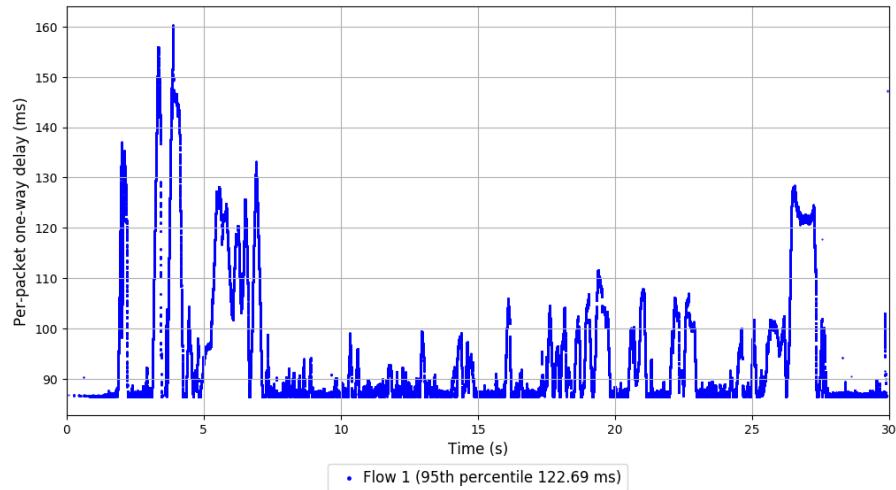
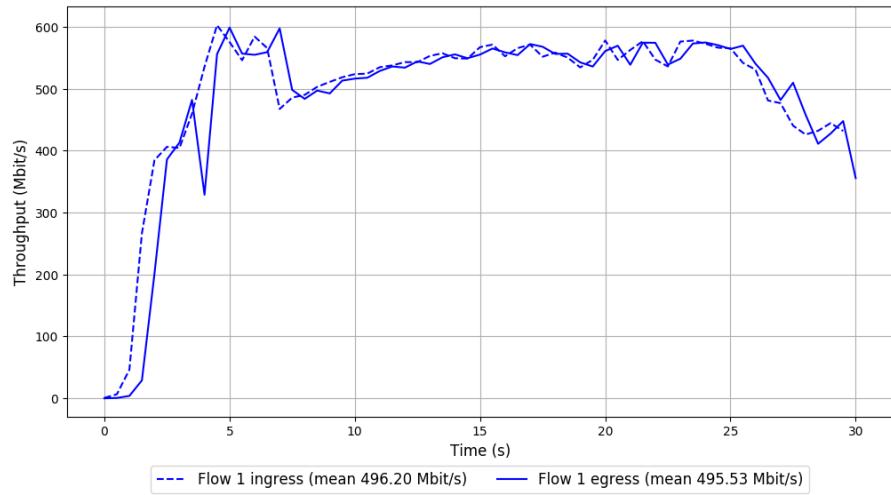


Run 3: Statistics of TCP Cubic

```
Start at: 2019-07-11 22:49:13
End at: 2019-07-11 22:49:43
Local clock offset: 0.481 ms
Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2019-07-12 00:38:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 495.53 Mbit/s
95th percentile per-packet one-way delay: 122.688 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 495.53 Mbit/s
95th percentile per-packet one-way delay: 122.688 ms
Loss rate: 0.53%
```

Run 3: Report of TCP Cubic — Data Link

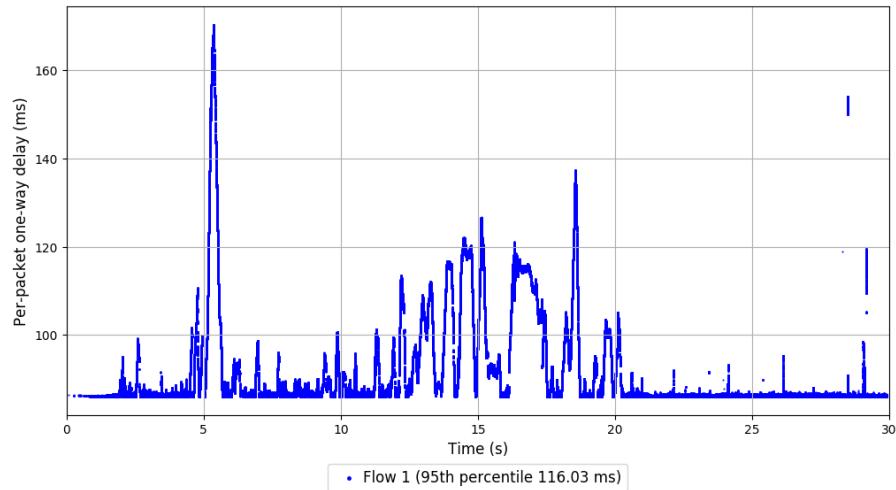
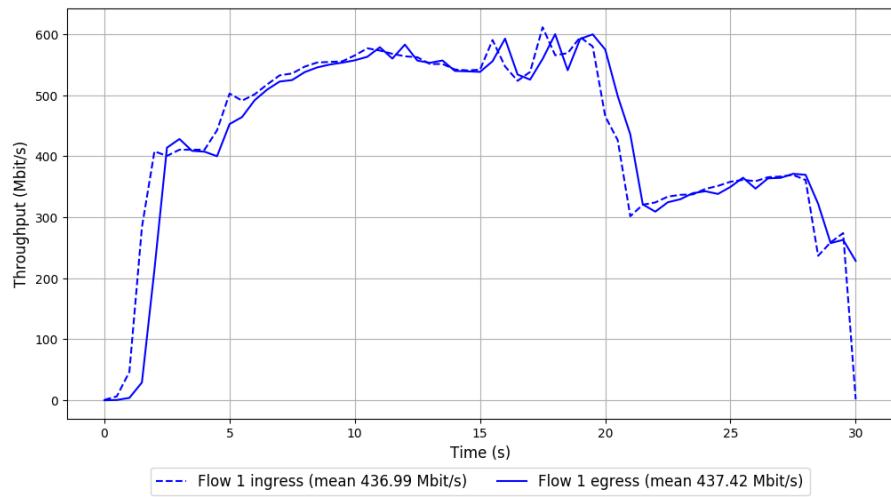


Run 4: Statistics of TCP Cubic

```
Start at: 2019-07-11 23:24:34
End at: 2019-07-11 23:25:04
Local clock offset: 0.337 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-07-12 00:38:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 437.42 Mbit/s
95th percentile per-packet one-way delay: 116.034 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 437.42 Mbit/s
95th percentile per-packet one-way delay: 116.034 ms
Loss rate: 0.48%
```

Run 4: Report of TCP Cubic — Data Link

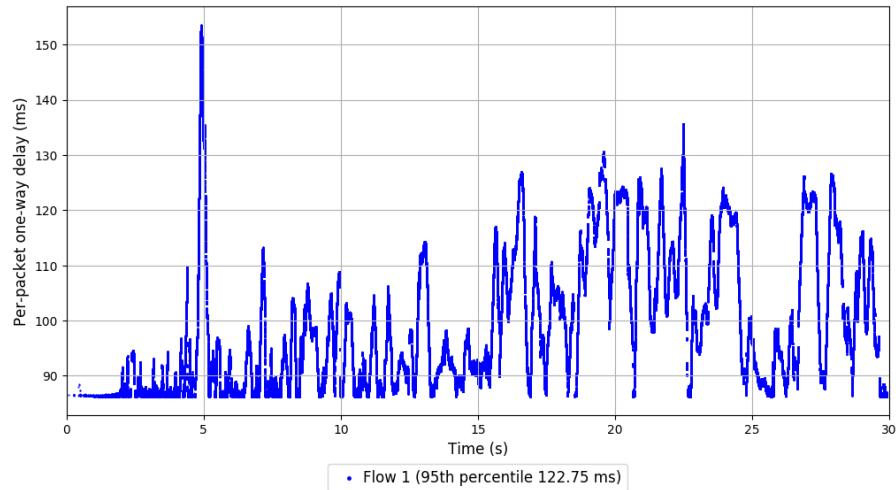
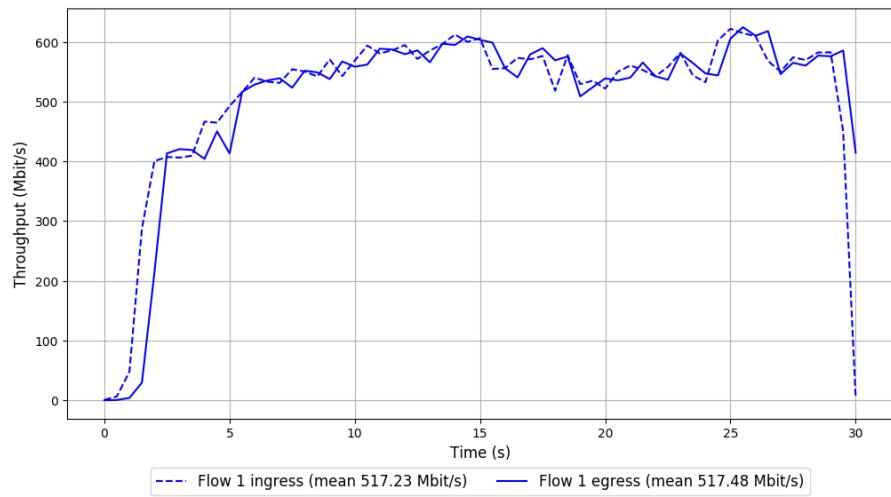


Run 5: Statistics of TCP Cubic

```
Start at: 2019-07-12 00:00:08
End at: 2019-07-12 00:00:38
Local clock offset: 0.349 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2019-07-12 00:39:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 517.48 Mbit/s
95th percentile per-packet one-way delay: 122.748 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 517.48 Mbit/s
95th percentile per-packet one-way delay: 122.748 ms
Loss rate: 0.53%
```

Run 5: Report of TCP Cubic — Data Link

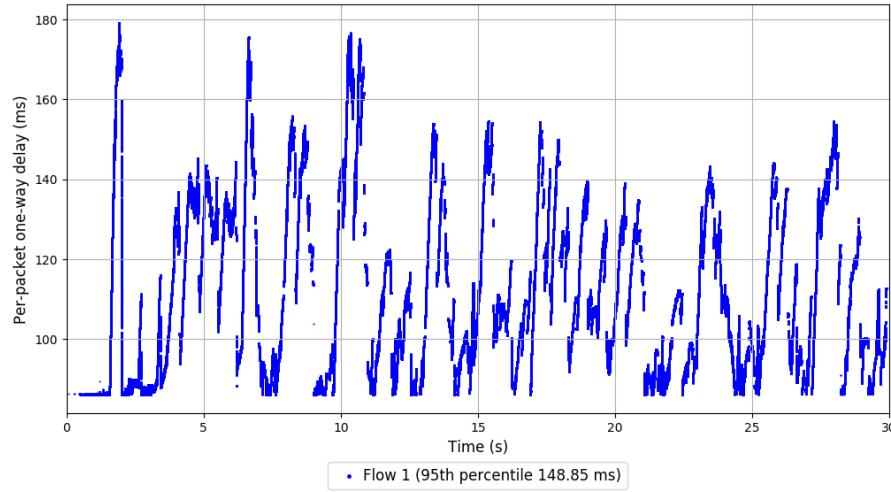
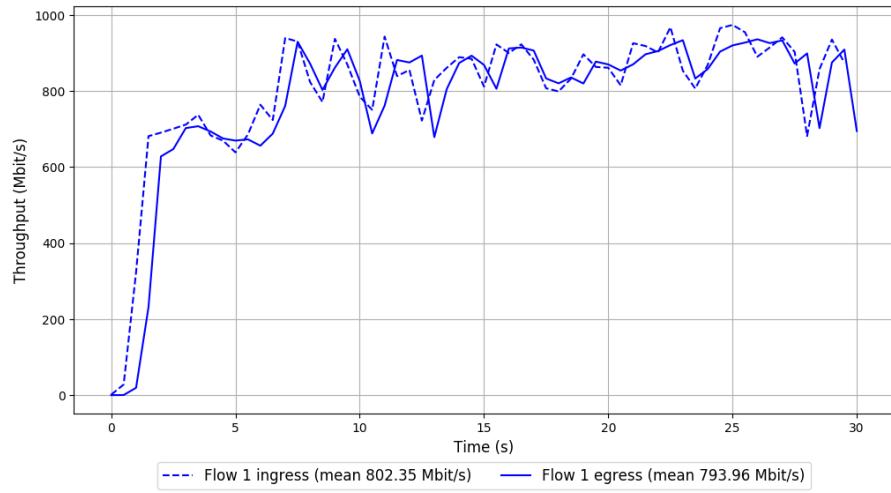


```
Run 1: Statistics of FillP
```

```
Start at: 2019-07-11 21:19:22
End at: 2019-07-11 21:19:52
Local clock offset: 4.21 ms
Remote clock offset: 2.534 ms

# Below is generated by plot.py at 2019-07-12 00:46:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 793.96 Mbit/s
95th percentile per-packet one-way delay: 148.848 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 793.96 Mbit/s
95th percentile per-packet one-way delay: 148.848 ms
Loss rate: 1.62%
```

Run 1: Report of FillP — Data Link

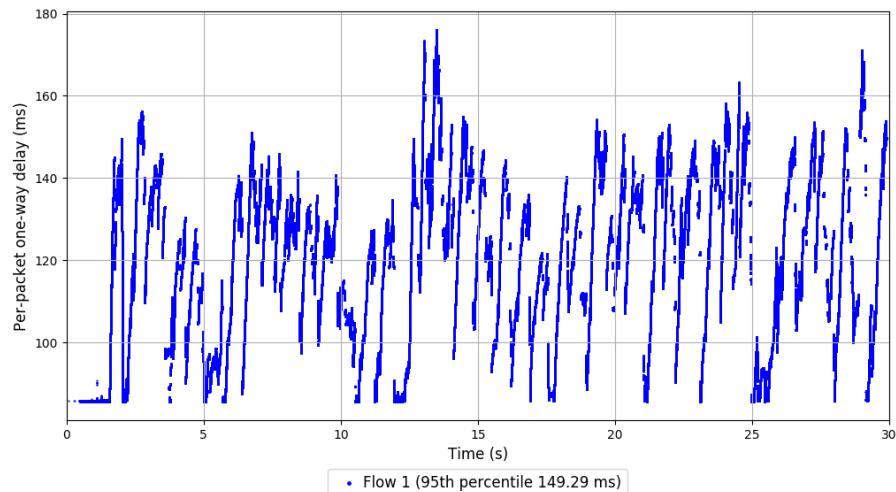
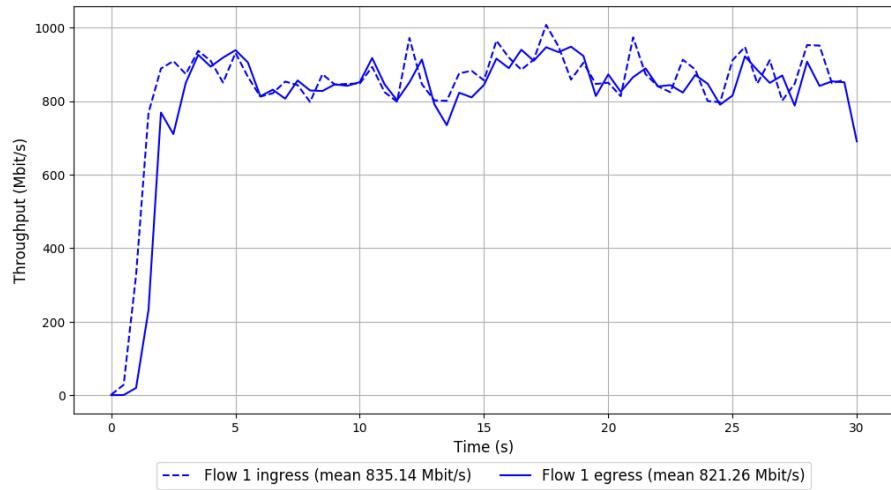


Run 2: Statistics of FillP

```
Start at: 2019-07-11 21:55:07
End at: 2019-07-11 21:55:37
Local clock offset: 0.636 ms
Remote clock offset: 0.97 ms

# Below is generated by plot.py at 2019-07-12 00:55:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 821.26 Mbit/s
95th percentile per-packet one-way delay: 149.293 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 821.26 Mbit/s
95th percentile per-packet one-way delay: 149.293 ms
Loss rate: 2.23%
```

Run 2: Report of FillP — Data Link

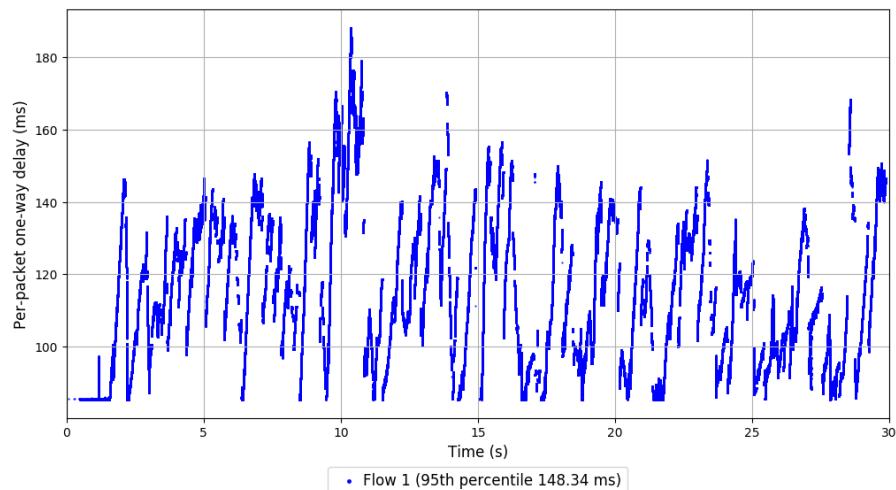
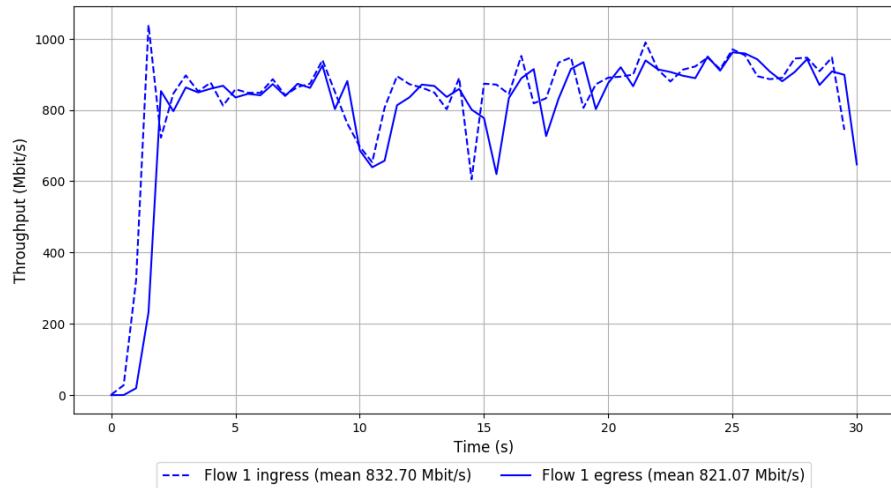


Run 3: Statistics of FillP

```
Start at: 2019-07-11 22:30:39
End at: 2019-07-11 22:31:09
Local clock offset: -0.127 ms
Remote clock offset: 0.424 ms

# Below is generated by plot.py at 2019-07-12 00:55:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 821.07 Mbit/s
95th percentile per-packet one-way delay: 148.343 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 821.07 Mbit/s
95th percentile per-packet one-way delay: 148.343 ms
Loss rate: 1.97%
```

Run 3: Report of FillP — Data Link

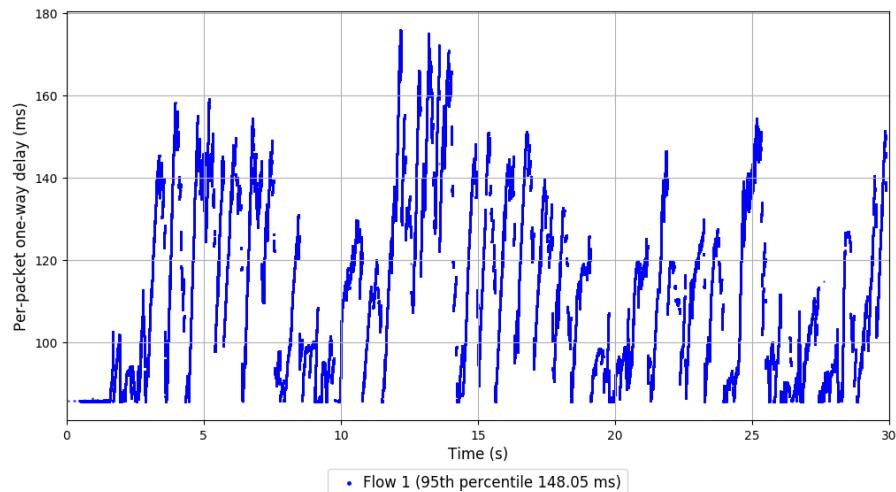
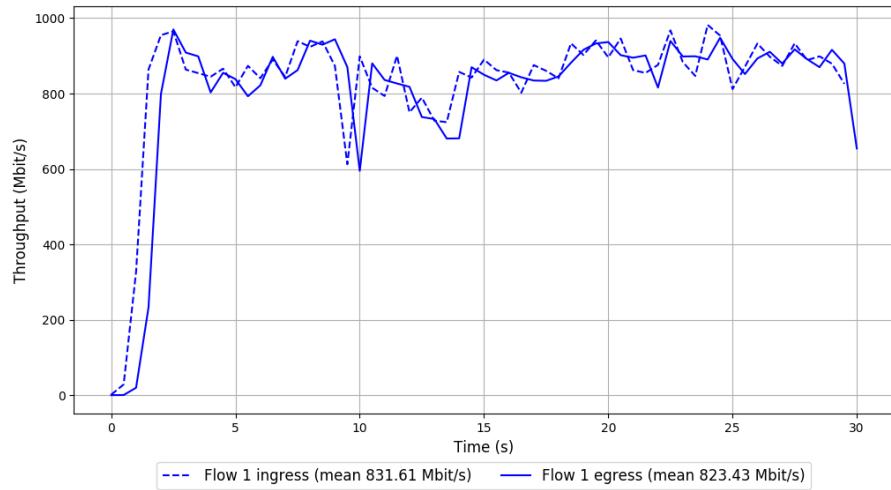


Run 4: Statistics of FillP

```
Start at: 2019-07-11 23:06:10
End at: 2019-07-11 23:06:40
Local clock offset: -0.156 ms
Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2019-07-12 00:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 823.43 Mbit/s
95th percentile per-packet one-way delay: 148.047 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 823.43 Mbit/s
95th percentile per-packet one-way delay: 148.047 ms
Loss rate: 1.56%
```

Run 4: Report of FillP — Data Link

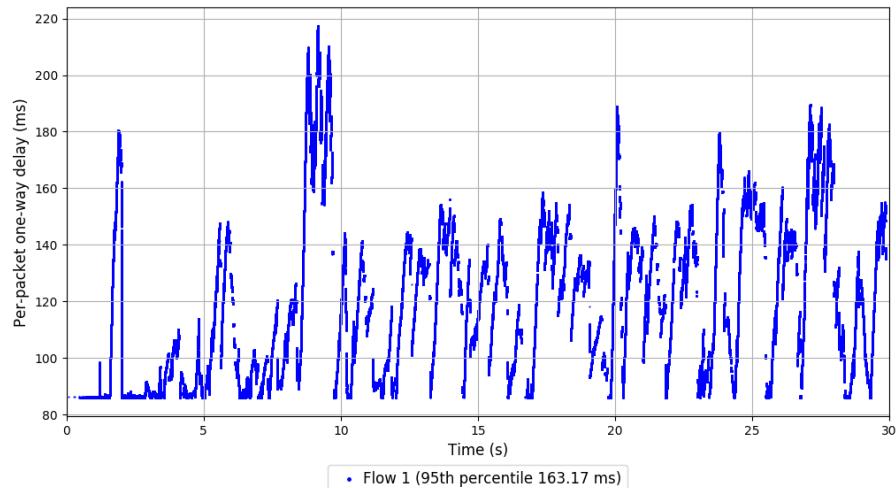
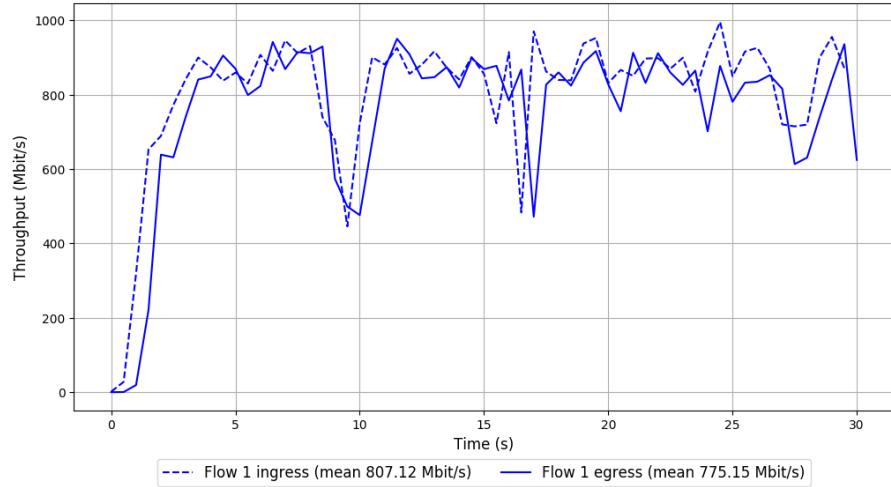


Run 5: Statistics of FillP

```
Start at: 2019-07-11 23:41:34
End at: 2019-07-11 23:42:04
Local clock offset: -0.045 ms
Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2019-07-12 00:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 775.15 Mbit/s
95th percentile per-packet one-way delay: 163.169 ms
Loss rate: 4.52%
-- Flow 1:
Average throughput: 775.15 Mbit/s
95th percentile per-packet one-way delay: 163.169 ms
Loss rate: 4.52%
```

Run 5: Report of FillP — Data Link

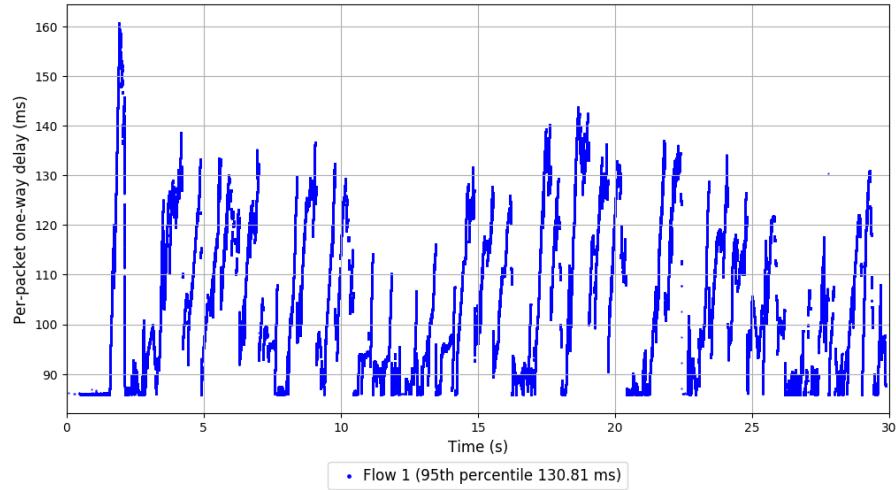
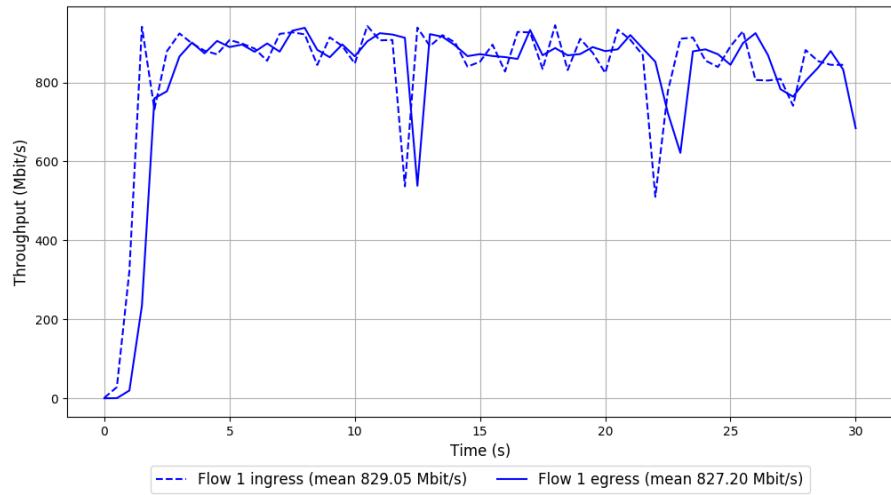


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-07-11 21:14:23
End at: 2019-07-11 21:14:53
Local clock offset: 3.877 ms
Remote clock offset: 2.38 ms

# Below is generated by plot.py at 2019-07-12 00:56:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 827.20 Mbit/s
95th percentile per-packet one-way delay: 130.806 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 827.20 Mbit/s
95th percentile per-packet one-way delay: 130.806 ms
Loss rate: 0.80%
```

Run 1: Report of FillP-Sheep — Data Link

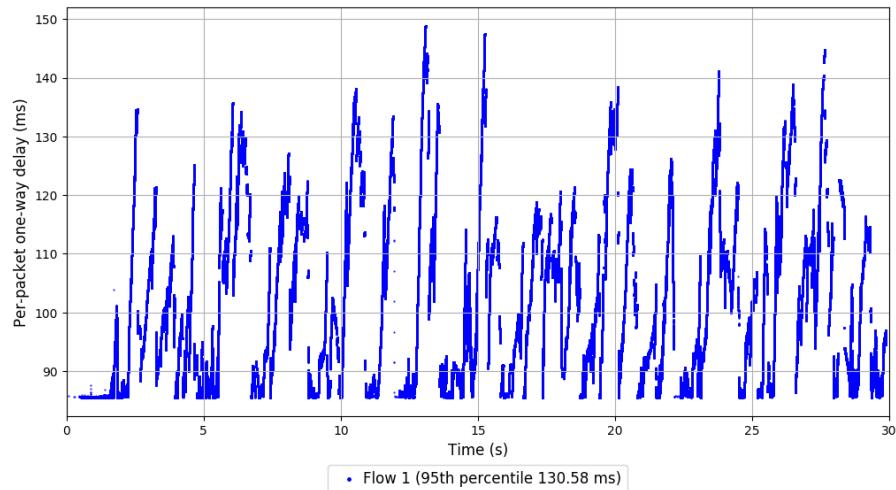
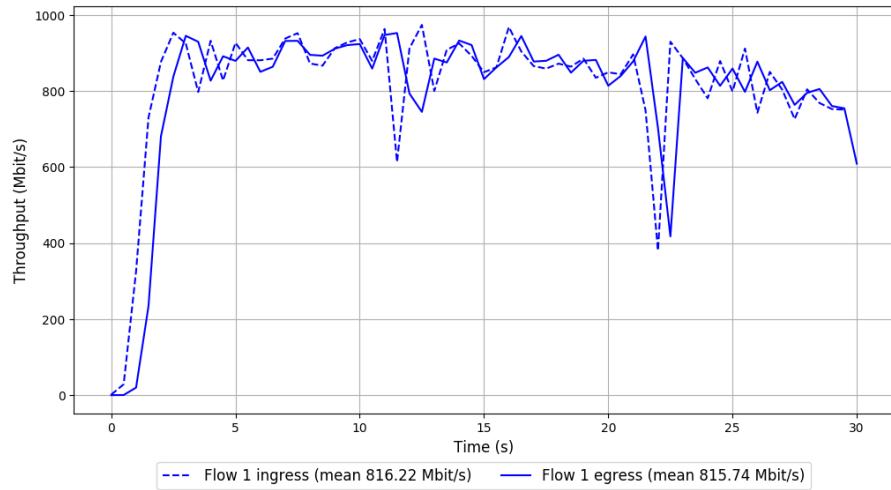


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-07-11 21:50:07
End at: 2019-07-11 21:50:37
Local clock offset: 0.693 ms
Remote clock offset: 1.048 ms

# Below is generated by plot.py at 2019-07-12 00:56:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 815.74 Mbit/s
95th percentile per-packet one-way delay: 130.577 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 815.74 Mbit/s
95th percentile per-packet one-way delay: 130.577 ms
Loss rate: 0.64%
```

Run 2: Report of FillP-Sheep — Data Link

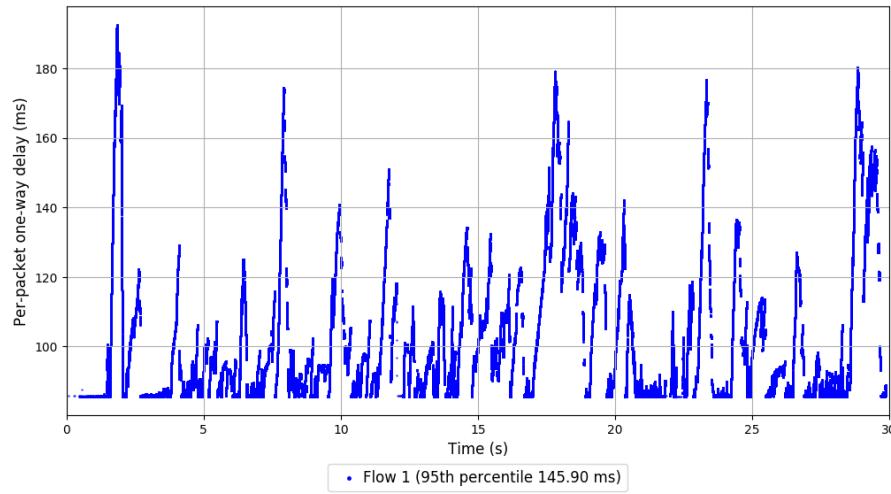
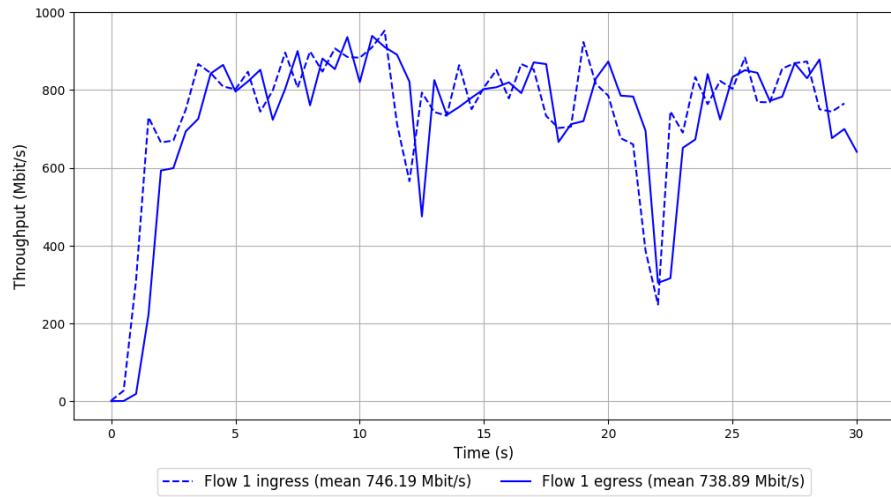


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-07-11 22:25:45
End at: 2019-07-11 22:26:15
Local clock offset: 0.19 ms
Remote clock offset: 0.574 ms

# Below is generated by plot.py at 2019-07-12 00:56:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 738.89 Mbit/s
95th percentile per-packet one-way delay: 145.904 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 738.89 Mbit/s
95th percentile per-packet one-way delay: 145.904 ms
Loss rate: 1.55%
```

Run 3: Report of FillP-Sheep — Data Link

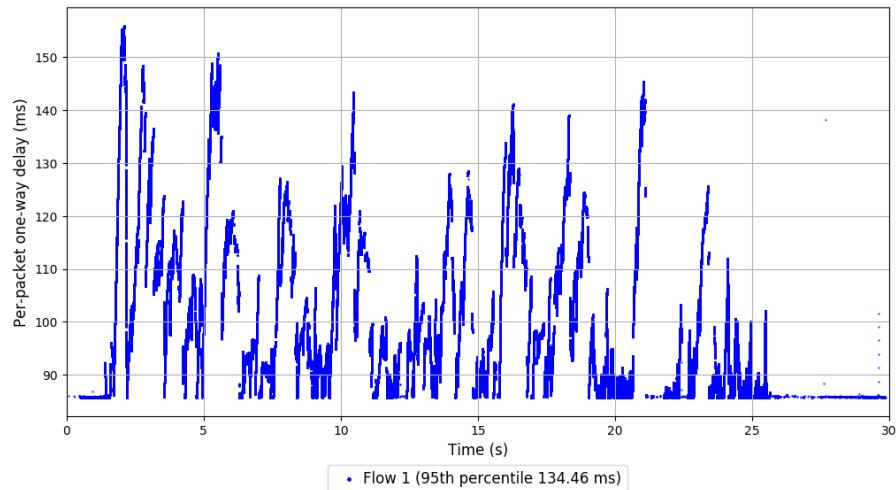
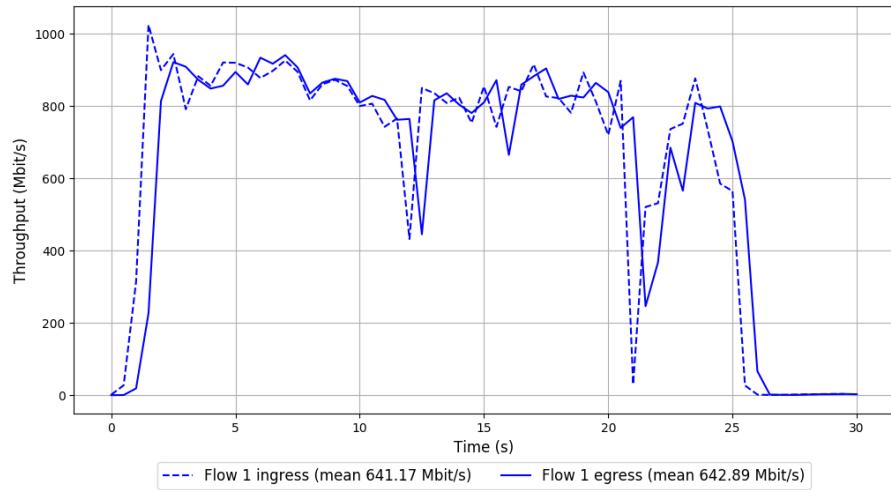


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-07-11 23:01:19
End at: 2019-07-11 23:01:49
Local clock offset: 0.053 ms
Remote clock offset: 0.22 ms

# Below is generated by plot.py at 2019-07-12 01:03:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 642.89 Mbit/s
95th percentile per-packet one-way delay: 134.462 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 642.89 Mbit/s
95th percentile per-packet one-way delay: 134.462 ms
Loss rate: 0.31%
```

Run 4: Report of FillP-Sheep — Data Link

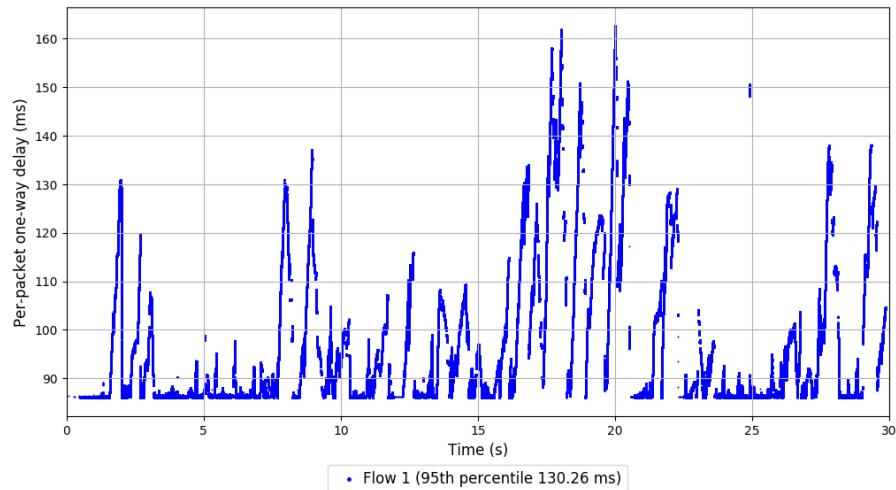
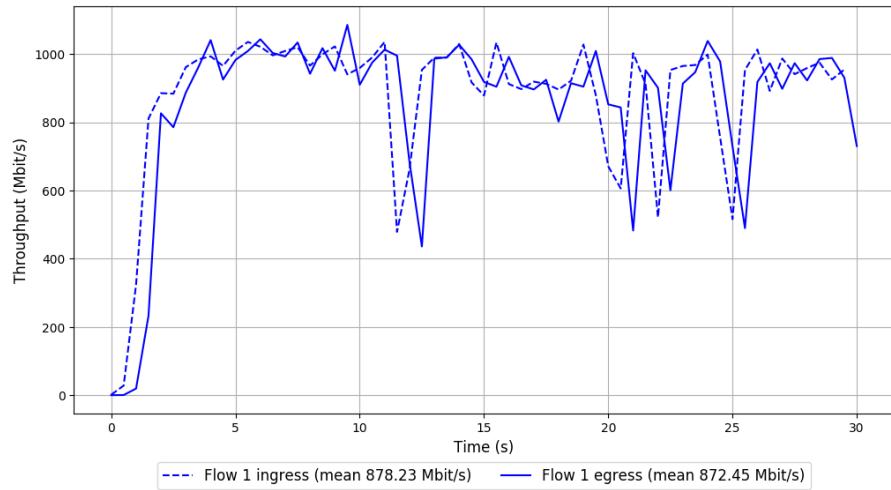


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-07-11 23:36:31
End at: 2019-07-11 23:37:01
Local clock offset: 0.349 ms
Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2019-07-12 01:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 872.45 Mbit/s
95th percentile per-packet one-way delay: 130.261 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 872.45 Mbit/s
95th percentile per-packet one-way delay: 130.261 ms
Loss rate: 1.23%
```

Run 5: Report of FillP-Sheep — Data Link

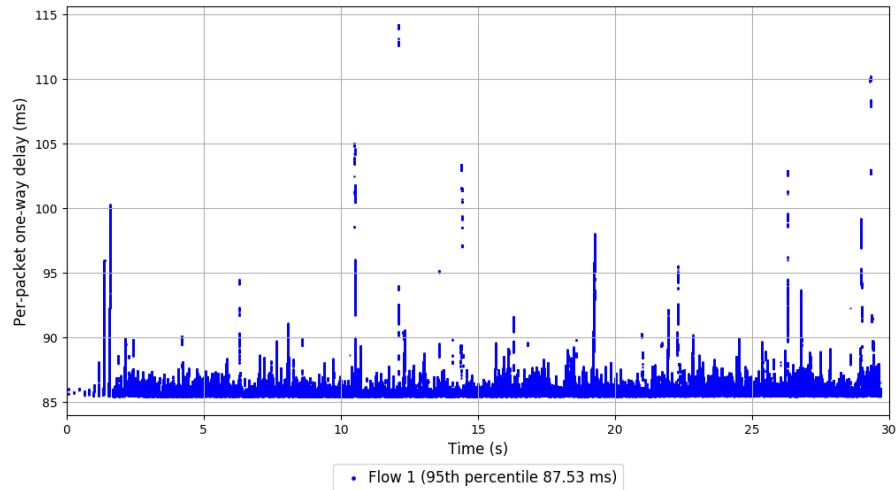
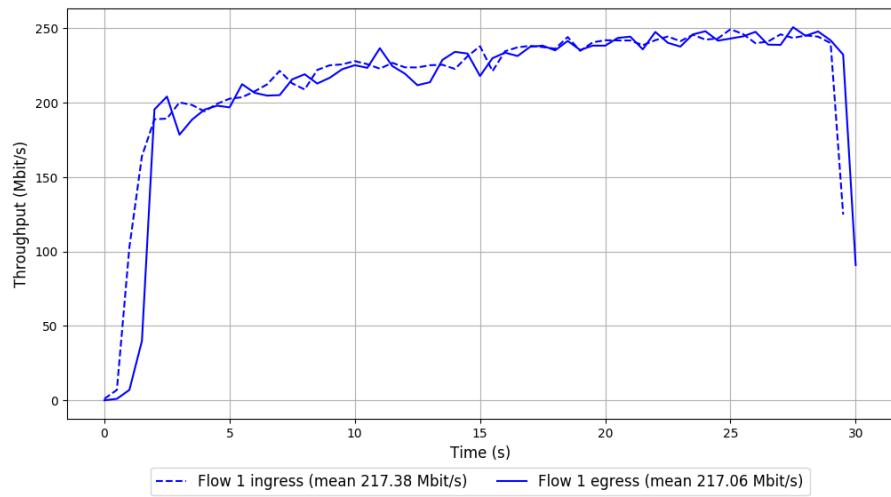


Run 1: Statistics of Indigo

```
Start at: 2019-07-11 21:39:44
End at: 2019-07-11 21:40:14
Local clock offset: 0.663 ms
Remote clock offset: 0.873 ms

# Below is generated by plot.py at 2019-07-12 01:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.06 Mbit/s
95th percentile per-packet one-way delay: 87.534 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 217.06 Mbit/s
95th percentile per-packet one-way delay: 87.534 ms
Loss rate: 0.72%
```

Run 1: Report of Indigo — Data Link

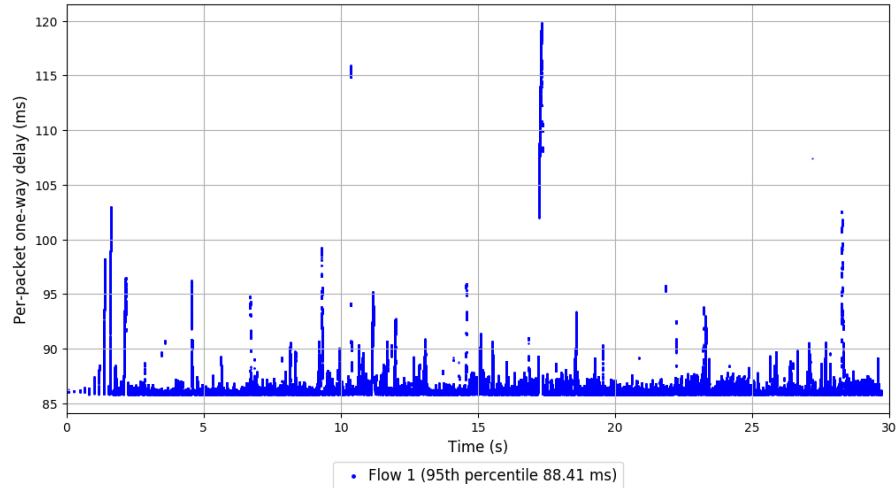
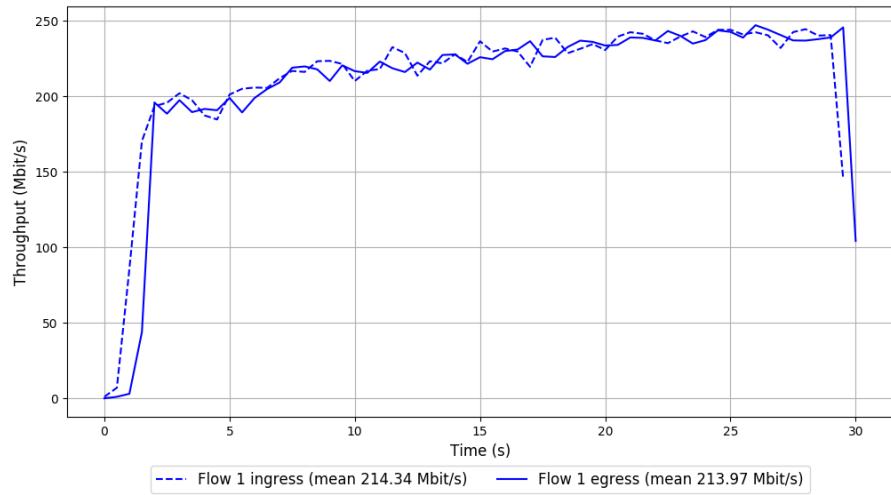


Run 2: Statistics of Indigo

```
Start at: 2019-07-11 22:15:16
End at: 2019-07-11 22:15:46
Local clock offset: 0.346 ms
Remote clock offset: 0.437 ms

# Below is generated by plot.py at 2019-07-12 01:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.97 Mbit/s
95th percentile per-packet one-way delay: 88.411 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 213.97 Mbit/s
95th percentile per-packet one-way delay: 88.411 ms
Loss rate: 0.75%
```

Run 2: Report of Indigo — Data Link

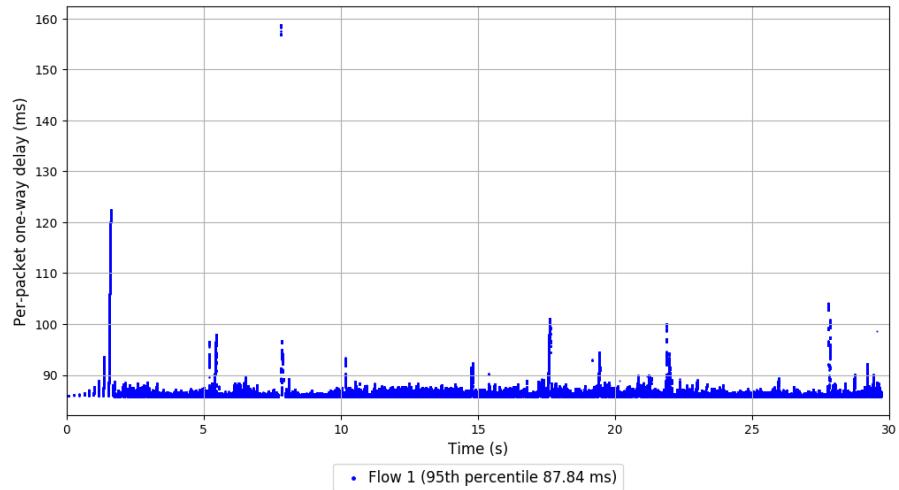
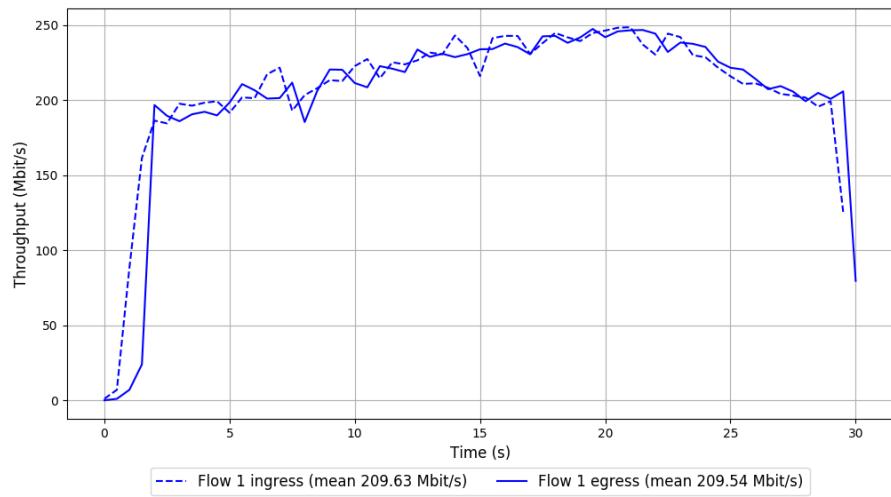


Run 3: Statistics of Indigo

```
Start at: 2019-07-11 22:50:48
End at: 2019-07-11 22:51:18
Local clock offset: 0.09 ms
Remote clock offset: 0.159 ms

# Below is generated by plot.py at 2019-07-12 01:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.54 Mbit/s
95th percentile per-packet one-way delay: 87.844 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 209.54 Mbit/s
95th percentile per-packet one-way delay: 87.844 ms
Loss rate: 0.62%
```

Run 3: Report of Indigo — Data Link

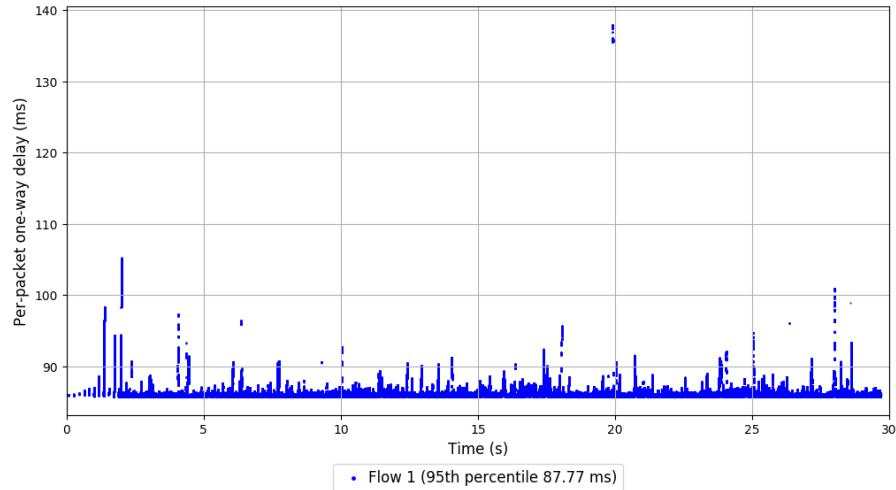
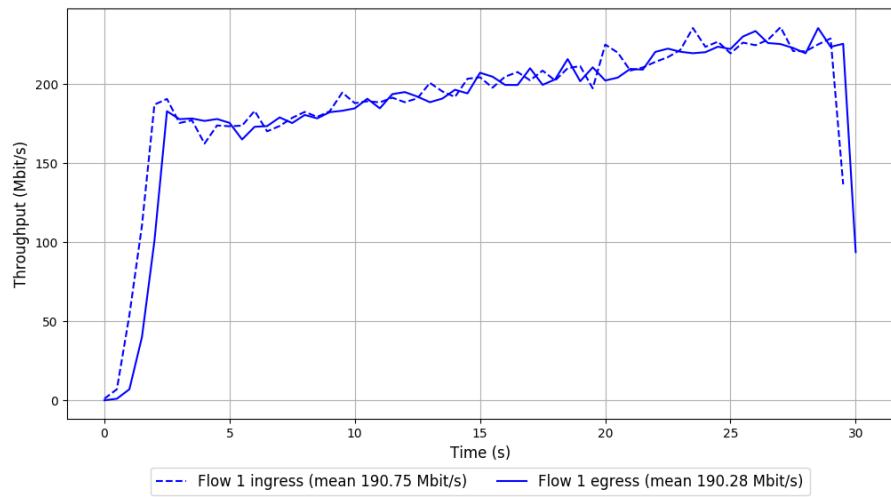


Run 4: Statistics of Indigo

```
Start at: 2019-07-11 23:26:06
End at: 2019-07-11 23:26:36
Local clock offset: 0.046 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-07-12 01:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.28 Mbit/s
95th percentile per-packet one-way delay: 87.769 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 190.28 Mbit/s
95th percentile per-packet one-way delay: 87.769 ms
Loss rate: 0.82%
```

Run 4: Report of Indigo — Data Link

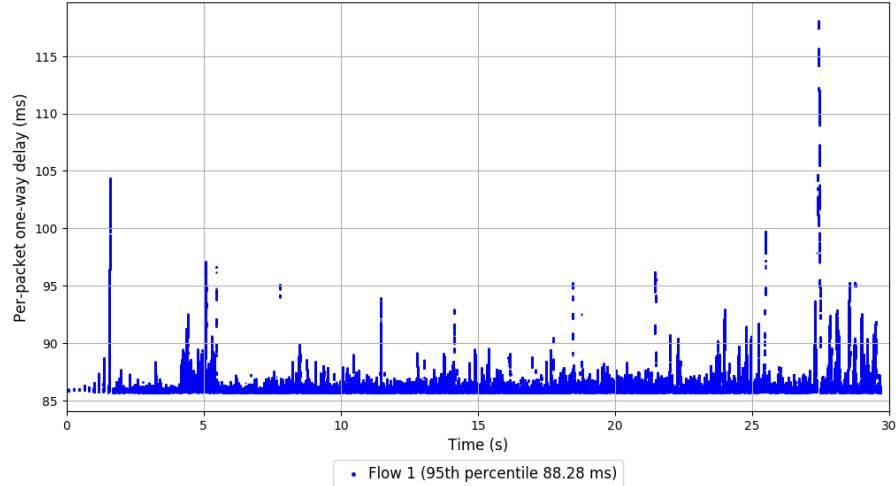
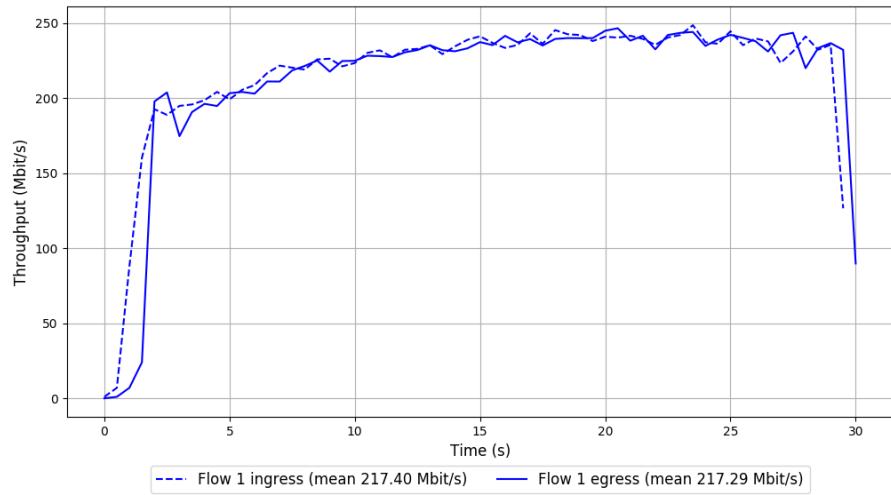


Run 5: Statistics of Indigo

```
Start at: 2019-07-12 00:01:45
End at: 2019-07-12 00:02:15
Local clock offset: -0.163 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2019-07-12 01:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.29 Mbit/s
95th percentile per-packet one-way delay: 88.276 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 217.29 Mbit/s
95th percentile per-packet one-way delay: 88.276 ms
Loss rate: 0.63%
```

Run 5: Report of Indigo — Data Link

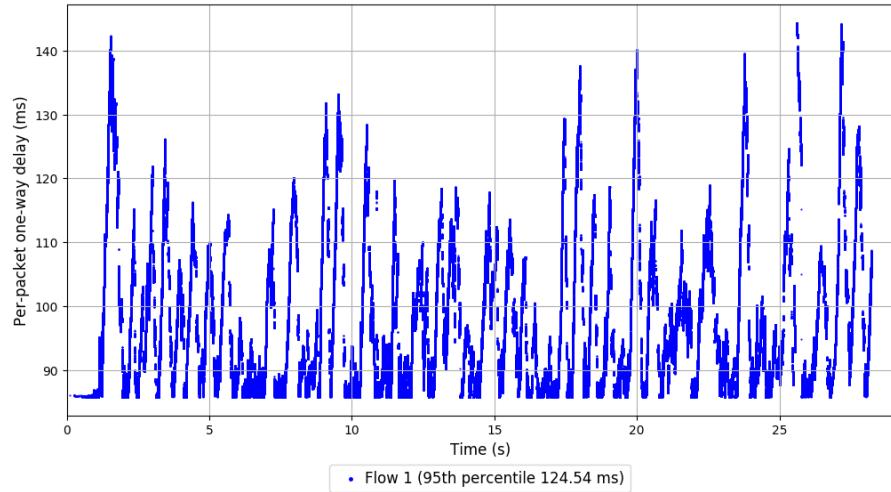
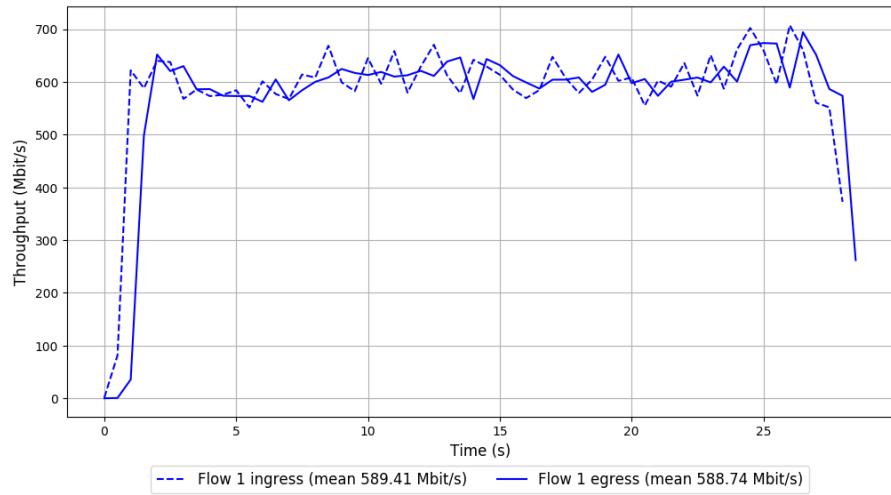


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-07-11 21:27:14
End at: 2019-07-11 21:27:44
Local clock offset: 1.561 ms
Remote clock offset: 1.245 ms

# Below is generated by plot.py at 2019-07-12 01:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 588.74 Mbit/s
95th percentile per-packet one-way delay: 124.536 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 588.74 Mbit/s
95th percentile per-packet one-way delay: 124.536 ms
Loss rate: 0.72%
```

Run 1: Report of Indigo-MusesC3 — Data Link

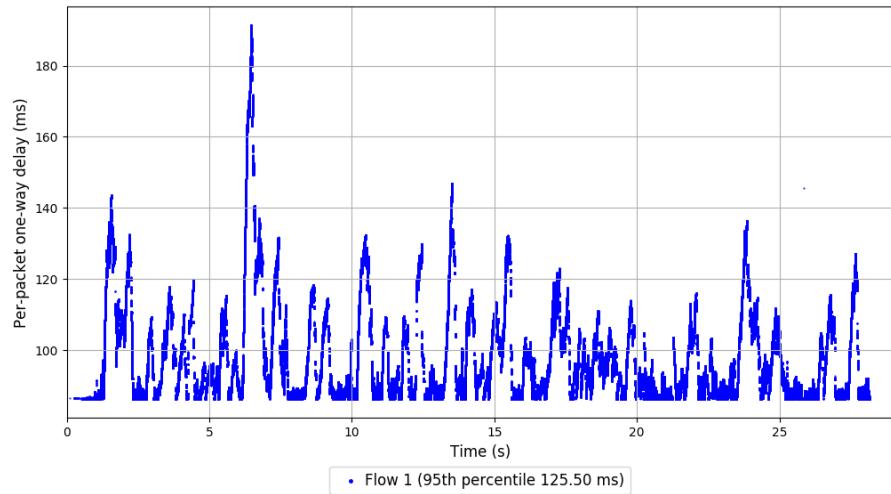
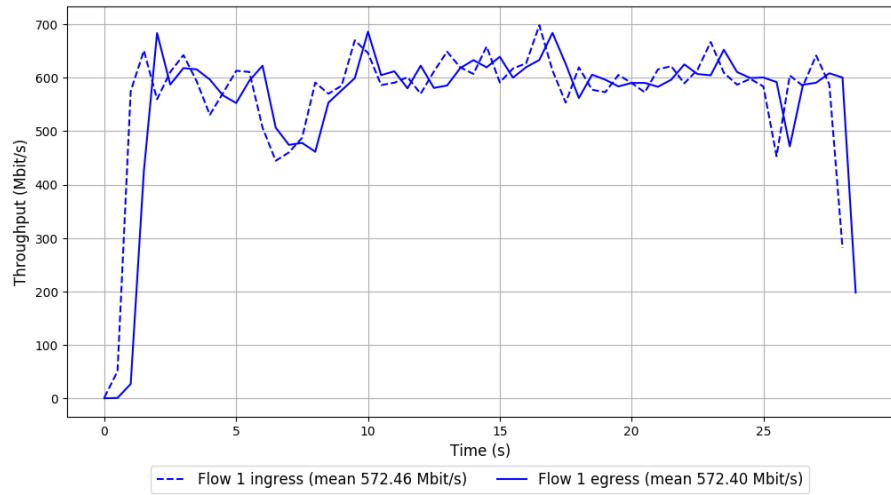


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-07-11 22:02:55
End at: 2019-07-11 22:03:25
Local clock offset: 0.802 ms
Remote clock offset: 0.545 ms

# Below is generated by plot.py at 2019-07-12 01:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 572.40 Mbit/s
95th percentile per-packet one-way delay: 125.498 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 572.40 Mbit/s
95th percentile per-packet one-way delay: 125.498 ms
Loss rate: 0.62%
```

Run 2: Report of Indigo-MusesC3 — Data Link

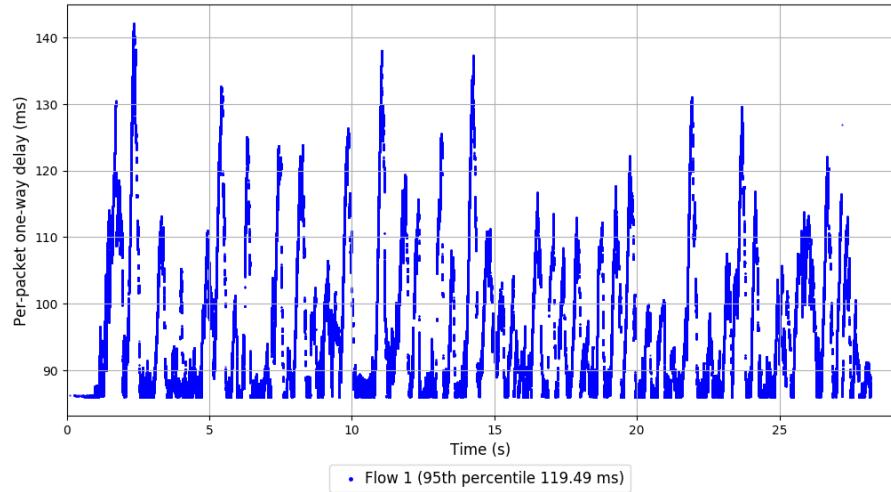
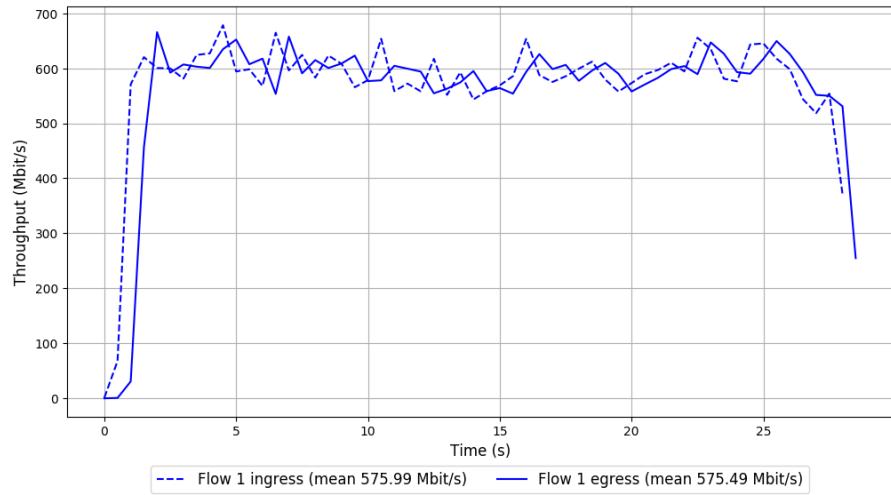


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-07-11 22:38:18
End at: 2019-07-11 22:38:48
Local clock offset: 0.267 ms
Remote clock offset: 0.215 ms

# Below is generated by plot.py at 2019-07-12 01:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 575.49 Mbit/s
95th percentile per-packet one-way delay: 119.490 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 575.49 Mbit/s
95th percentile per-packet one-way delay: 119.490 ms
Loss rate: 0.70%
```

Run 3: Report of Indigo-MusesC3 — Data Link

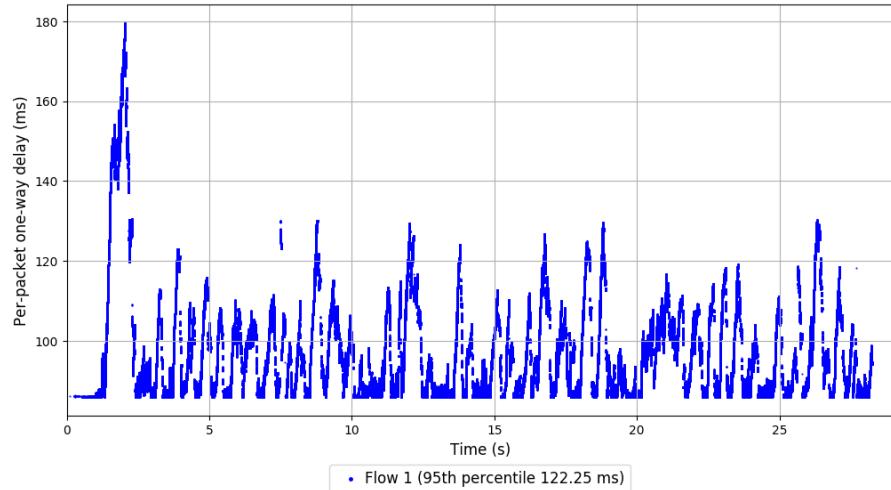
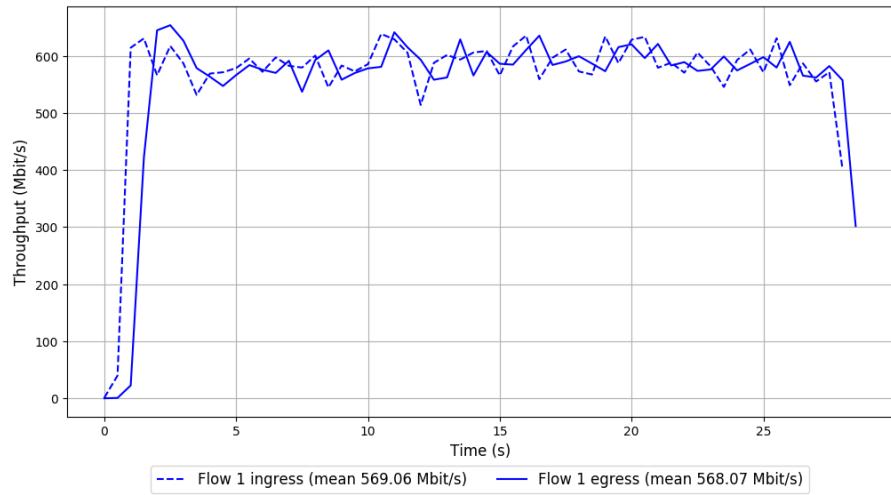


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-07-11 23:13:47
End at: 2019-07-11 23:14:17
Local clock offset: 0.203 ms
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2019-07-12 01:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 568.07 Mbit/s
95th percentile per-packet one-way delay: 122.246 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 568.07 Mbit/s
95th percentile per-packet one-way delay: 122.246 ms
Loss rate: 0.78%
```

Run 4: Report of Indigo-MusesC3 — Data Link

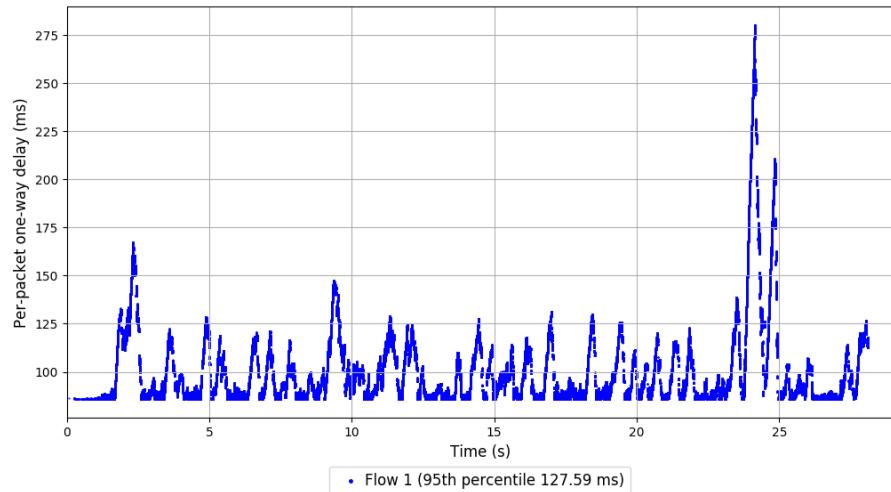
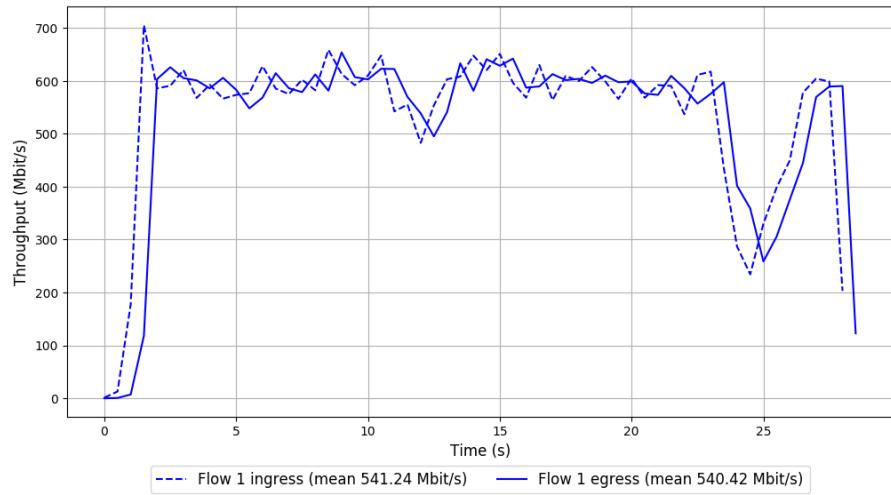


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-07-11 23:49:19
End at: 2019-07-11 23:49:49
Local clock offset: -0.279 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-07-12 01:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.42 Mbit/s
95th percentile per-packet one-way delay: 127.594 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 540.42 Mbit/s
95th percentile per-packet one-way delay: 127.594 ms
Loss rate: 0.76%
```

Run 5: Report of Indigo-MusesC3 — Data Link

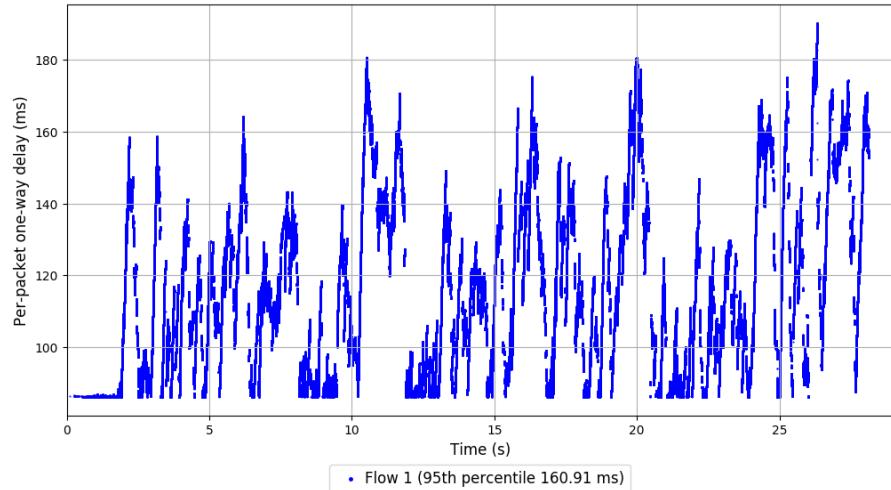
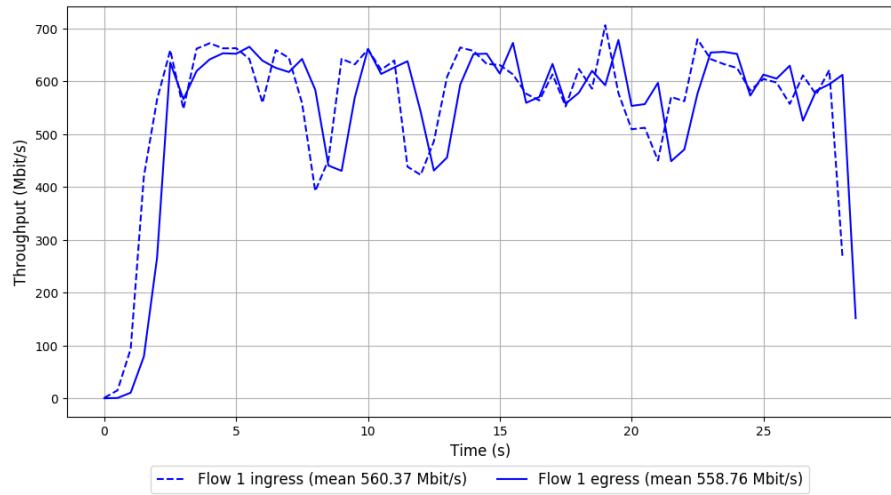


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 21:30:29
End at: 2019-07-11 21:30:59
Local clock offset: 1.454 ms
Remote clock offset: 1.038 ms

# Below is generated by plot.py at 2019-07-12 01:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.76 Mbit/s
95th percentile per-packet one-way delay: 160.911 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 558.76 Mbit/s
95th percentile per-packet one-way delay: 160.911 ms
Loss rate: 0.90%
```

Run 1: Report of Indigo-MusesC5 — Data Link

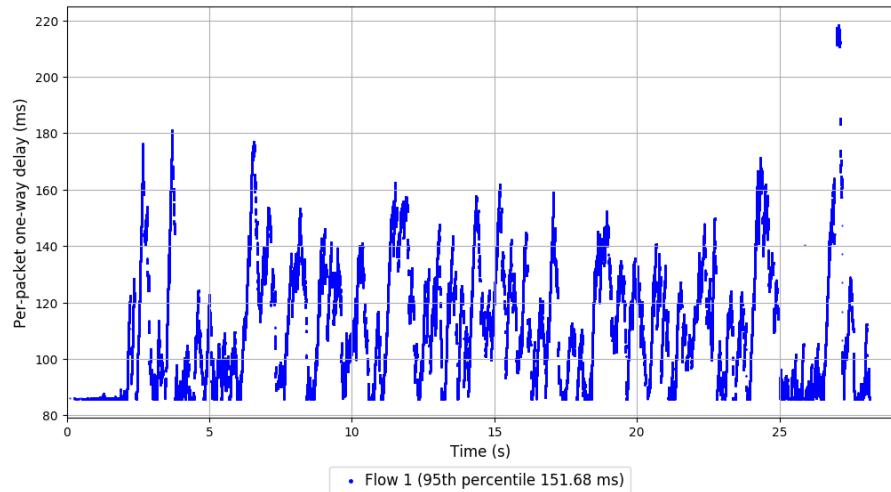
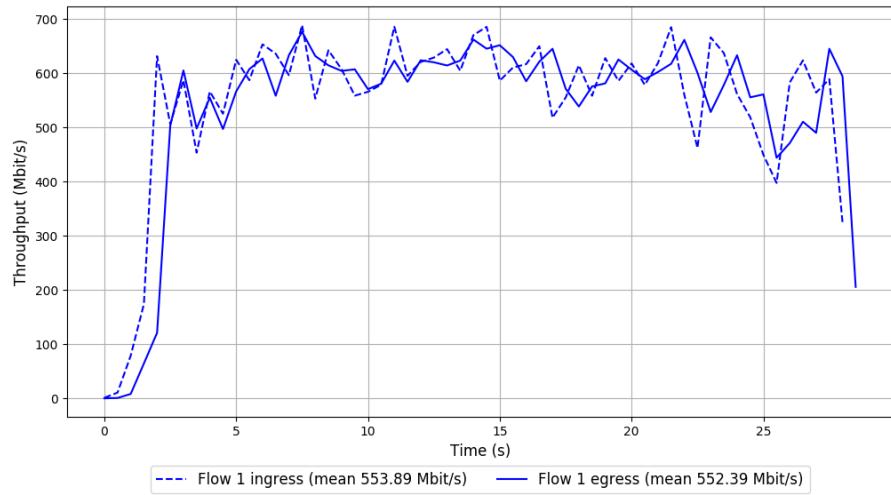


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 22:06:09
End at: 2019-07-11 22:06:39
Local clock offset: 0.334 ms
Remote clock offset: 0.491 ms

# Below is generated by plot.py at 2019-07-12 01:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 552.39 Mbit/s
95th percentile per-packet one-way delay: 151.676 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 552.39 Mbit/s
95th percentile per-packet one-way delay: 151.676 ms
Loss rate: 0.88%
```

Run 2: Report of Indigo-MusesC5 — Data Link

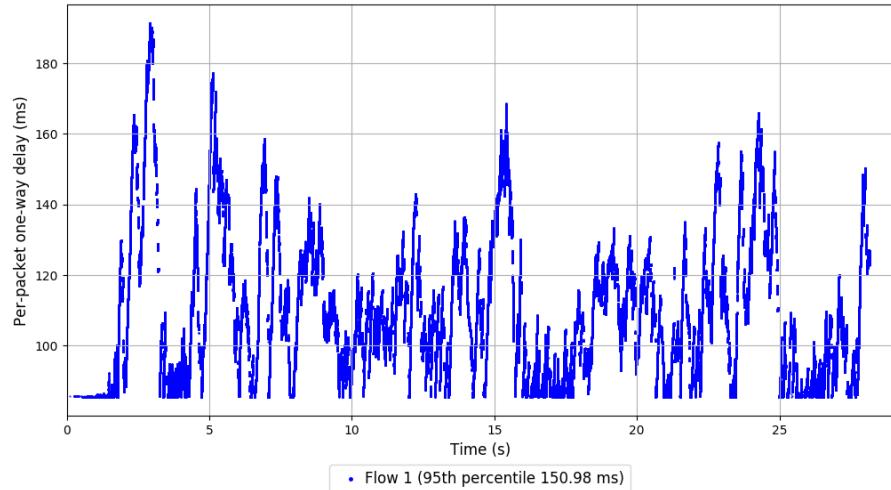
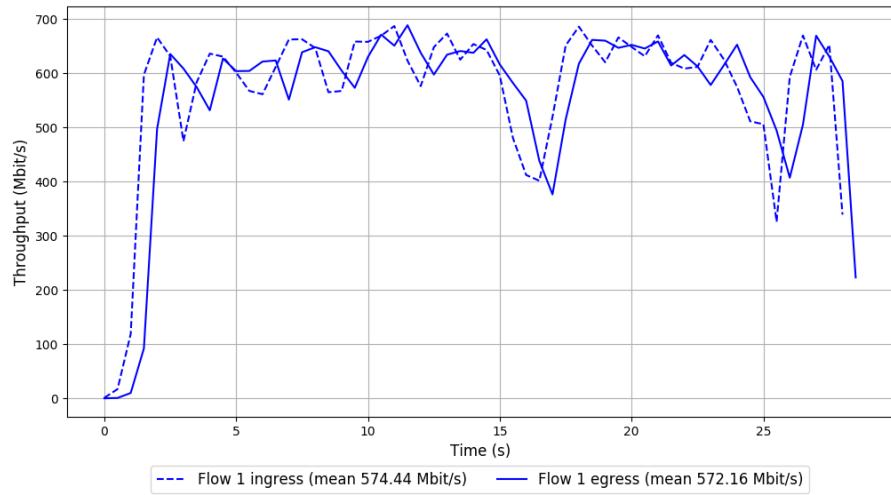


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 22:41:33
End at: 2019-07-11 22:42:03
Local clock offset: -0.166 ms
Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2019-07-12 01:16:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 572.16 Mbit/s
95th percentile per-packet one-way delay: 150.983 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 572.16 Mbit/s
95th percentile per-packet one-way delay: 150.983 ms
Loss rate: 1.01%
```

Run 3: Report of Indigo-MusesC5 — Data Link

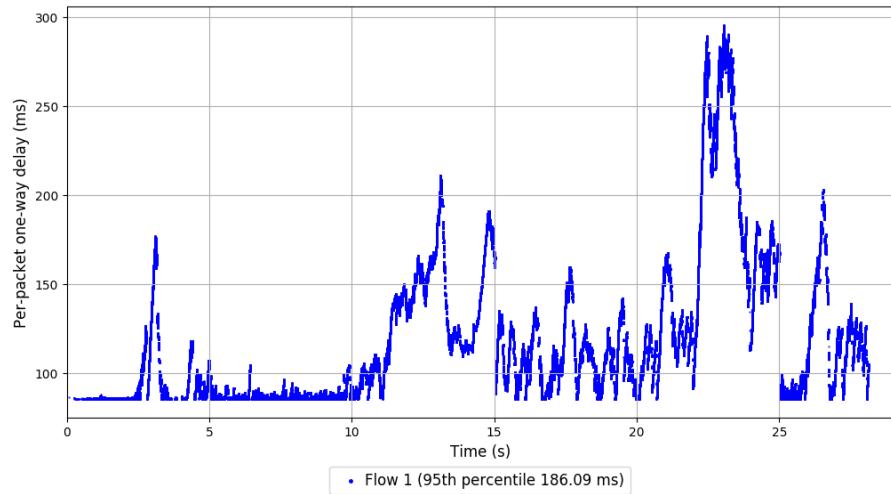
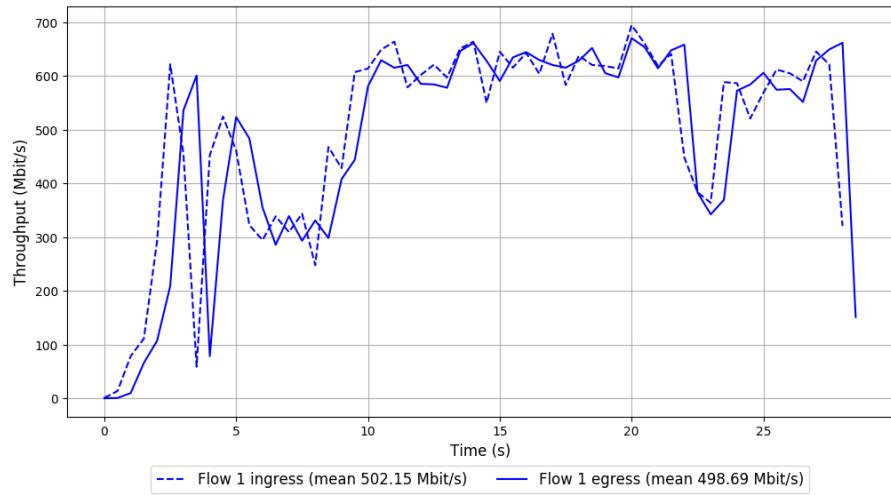


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 23:17:01
End at: 2019-07-11 23:17:31
Local clock offset: -0.356 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2019-07-12 01:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 498.69 Mbit/s
95th percentile per-packet one-way delay: 186.088 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 498.69 Mbit/s
95th percentile per-packet one-way delay: 186.088 ms
Loss rate: 1.30%
```

Run 4: Report of Indigo-MusesC5 — Data Link

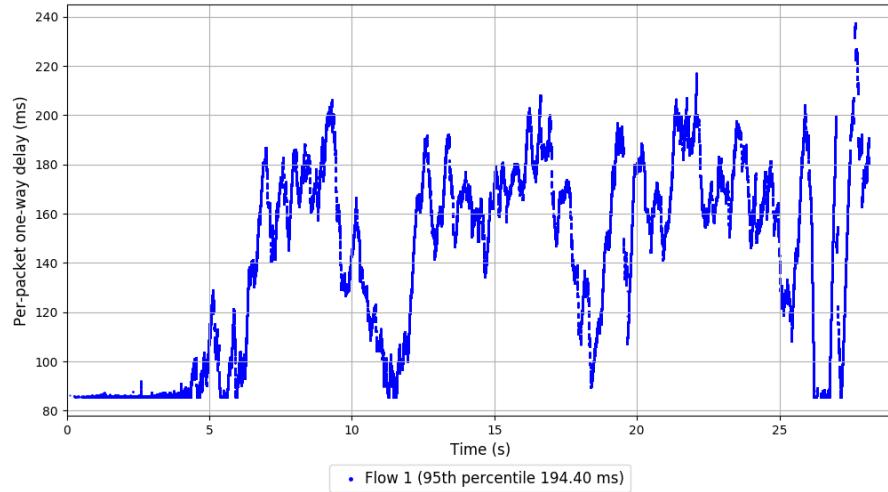
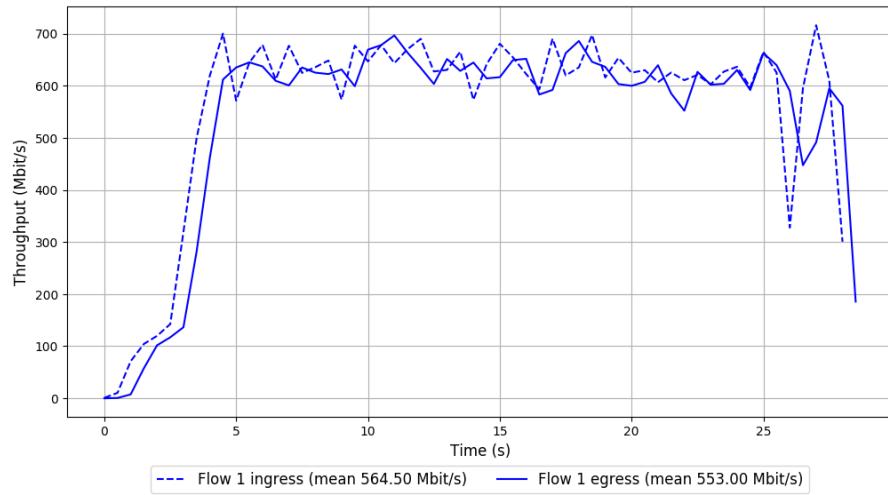


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 23:52:31
End at: 2019-07-11 23:53:01
Local clock offset: -0.322 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2019-07-12 01:22:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 553.00 Mbit/s
95th percentile per-packet one-way delay: 194.404 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 553.00 Mbit/s
95th percentile per-packet one-way delay: 194.404 ms
Loss rate: 2.64%
```

Run 5: Report of Indigo-MusesC5 — Data Link

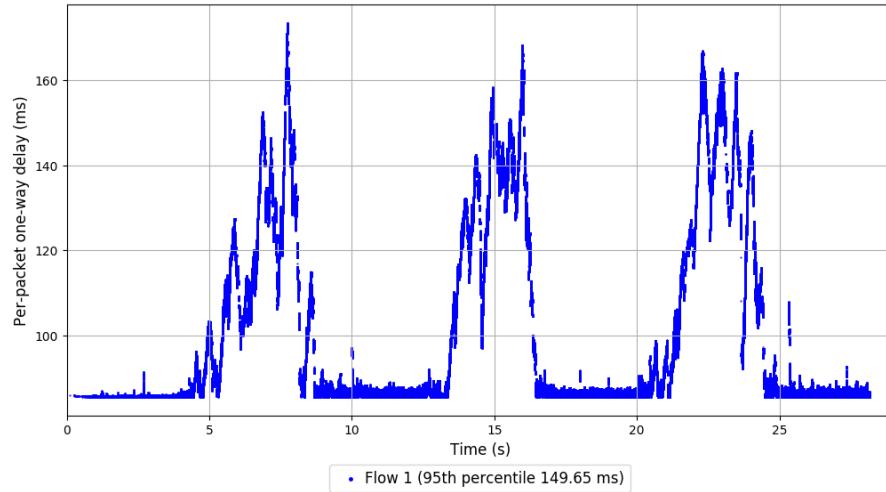
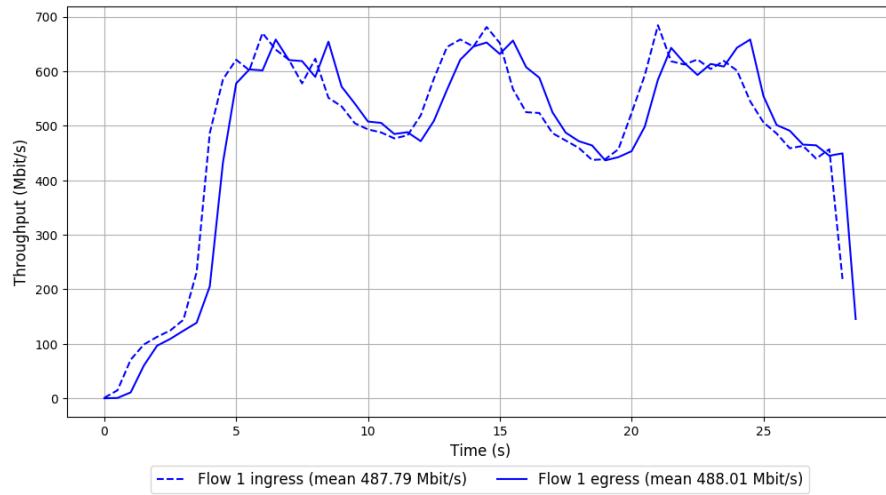


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-07-11 21:10:31
End at: 2019-07-11 21:11:01
Local clock offset: 3.64 ms
Remote clock offset: 2.3 ms

# Below is generated by plot.py at 2019-07-12 01:22:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 488.01 Mbit/s
95th percentile per-packet one-way delay: 149.654 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 488.01 Mbit/s
95th percentile per-packet one-way delay: 149.654 ms
Loss rate: 0.57%
```

Run 1: Report of Indigo-MusesD — Data Link

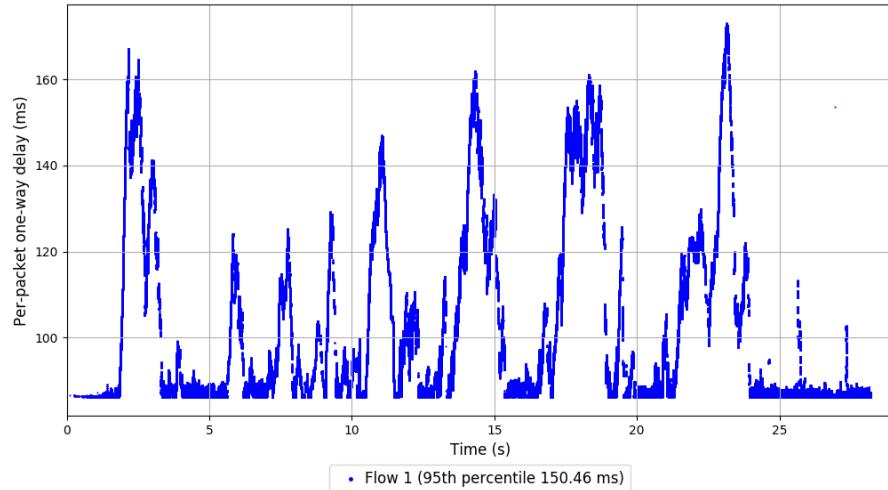
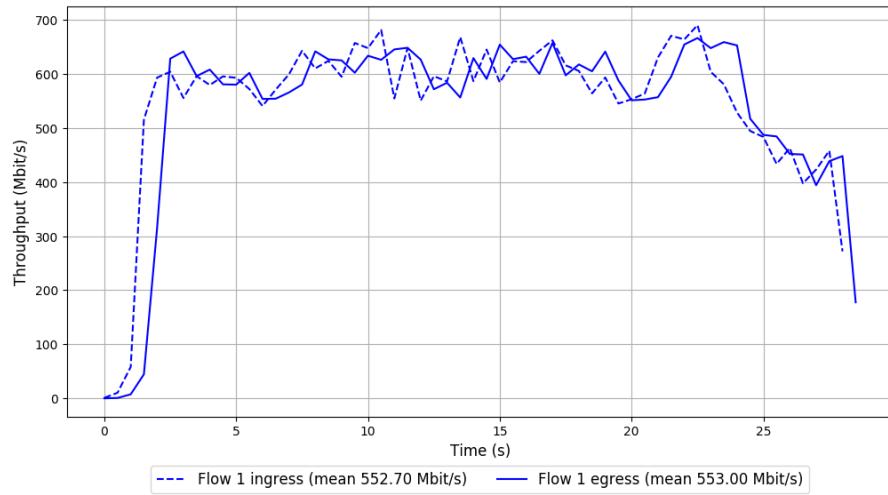


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-07-11 21:46:11
End at: 2019-07-11 21:46:41
Local clock offset: 1.055 ms
Remote clock offset: 0.958 ms

# Below is generated by plot.py at 2019-07-12 01:23:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 553.00 Mbit/s
95th percentile per-packet one-way delay: 150.461 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 553.00 Mbit/s
95th percentile per-packet one-way delay: 150.461 ms
Loss rate: 0.56%
```

Run 2: Report of Indigo-MusesD — Data Link

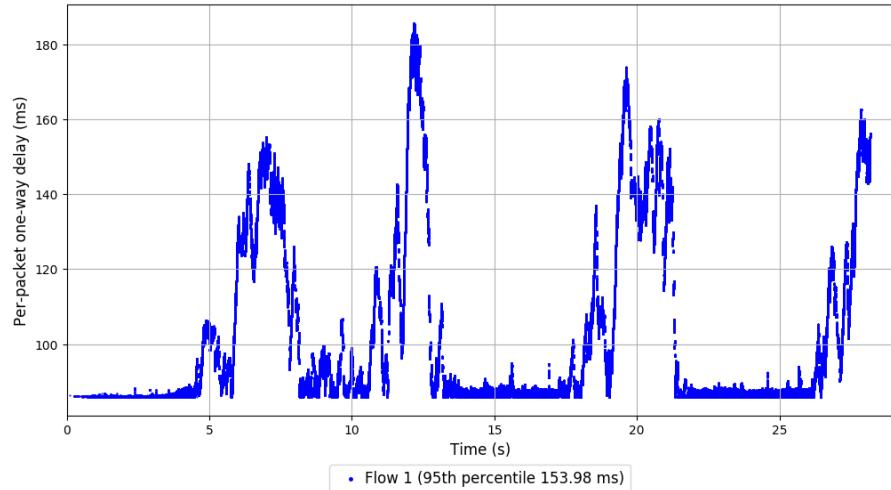
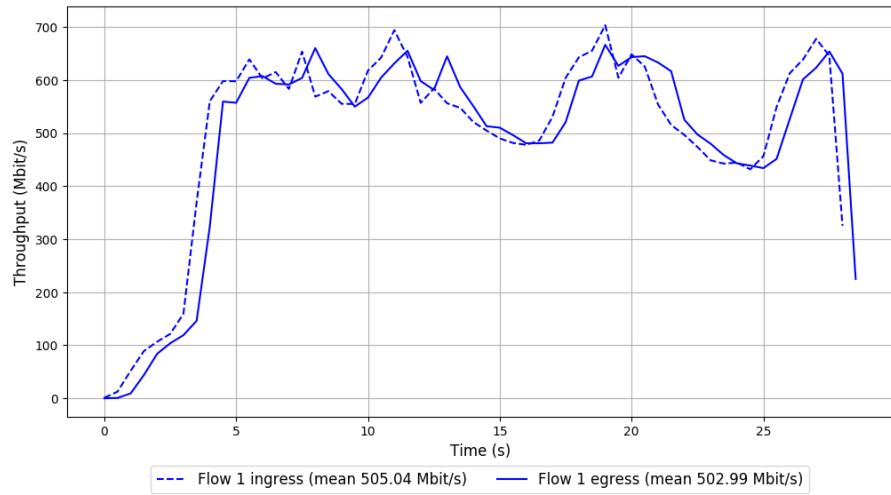


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-07-11 22:21:50
End at: 2019-07-11 22:22:20
Local clock offset: 0.173 ms
Remote clock offset: 0.512 ms

# Below is generated by plot.py at 2019-07-12 01:23:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 502.99 Mbit/s
95th percentile per-packet one-way delay: 153.978 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 502.99 Mbit/s
95th percentile per-packet one-way delay: 153.978 ms
Loss rate: 1.02%
```

Run 3: Report of Indigo-MusesD — Data Link

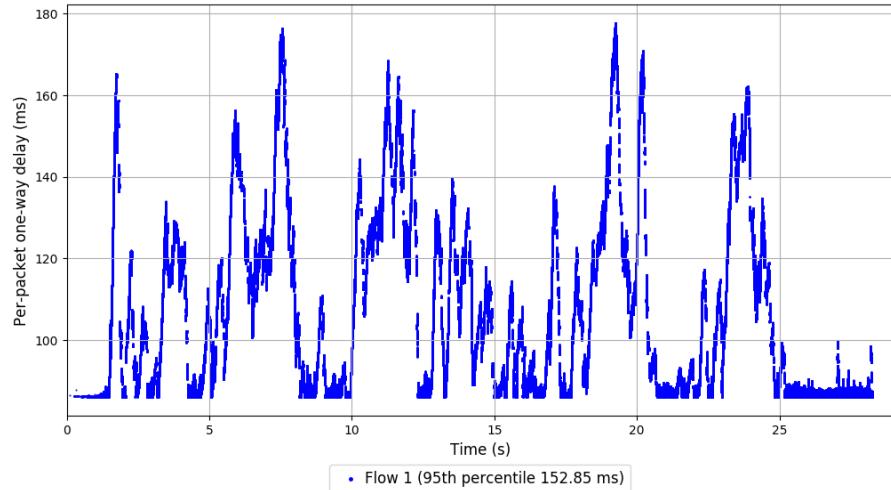
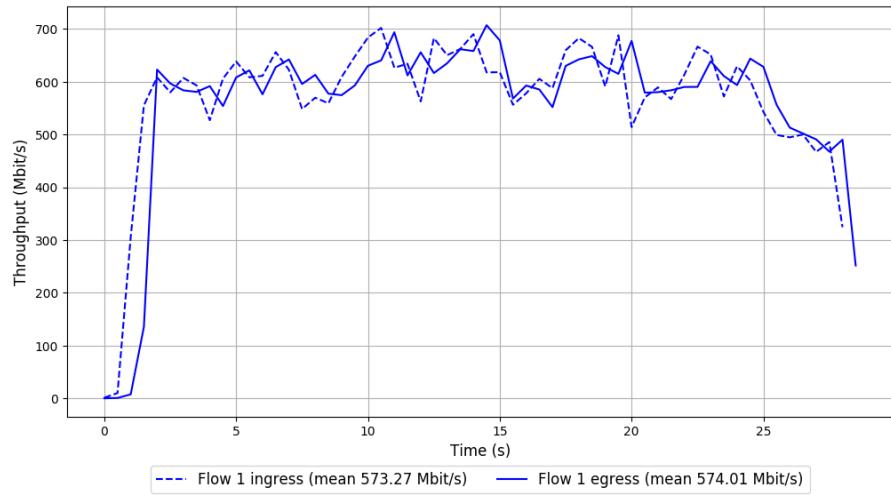


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-07-11 22:57:22
End at: 2019-07-11 22:57:52
Local clock offset: 0.361 ms
Remote clock offset: 0.186 ms

# Below is generated by plot.py at 2019-07-12 01:23:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 574.01 Mbit/s
95th percentile per-packet one-way delay: 152.848 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 574.01 Mbit/s
95th percentile per-packet one-way delay: 152.848 ms
Loss rate: 0.48%
```

Run 4: Report of Indigo-MusesD — Data Link

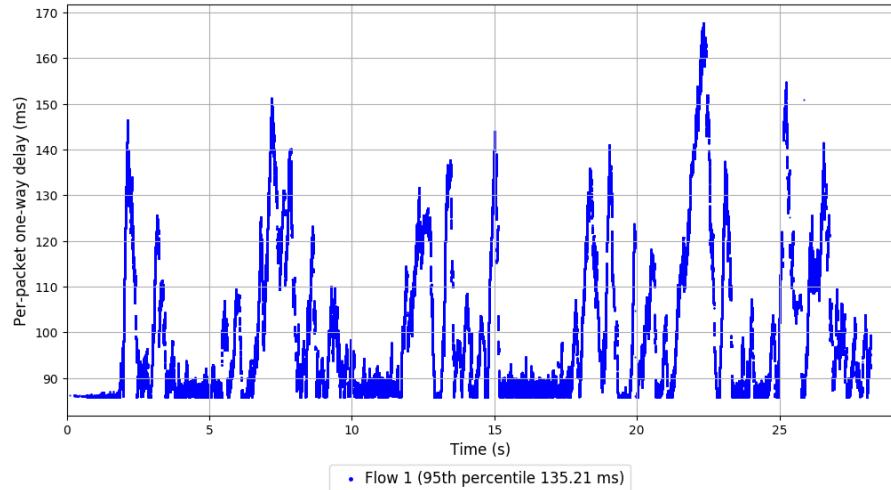
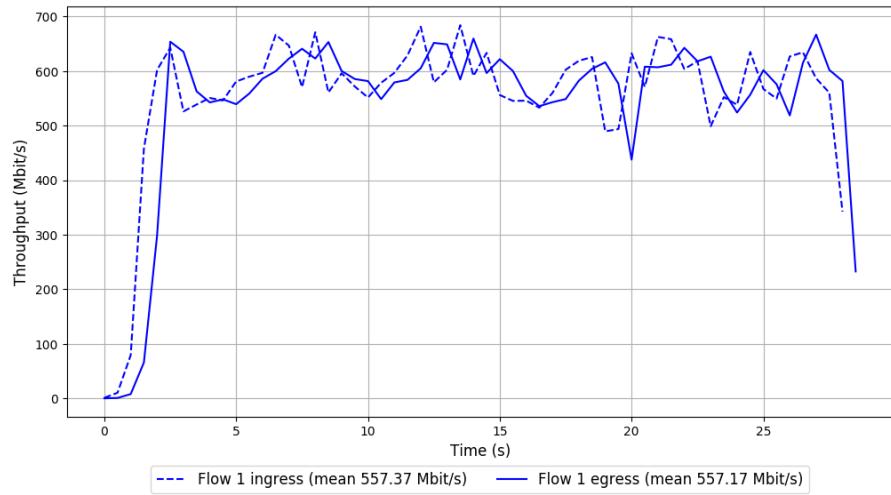


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-07-11 23:32:35
End at: 2019-07-11 23:33:05
Local clock offset: -0.184 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-07-12 01:25:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.17 Mbit/s
95th percentile per-packet one-way delay: 135.205 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 557.17 Mbit/s
95th percentile per-packet one-way delay: 135.205 ms
Loss rate: 0.65%
```

Run 5: Report of Indigo-MusesD — Data Link

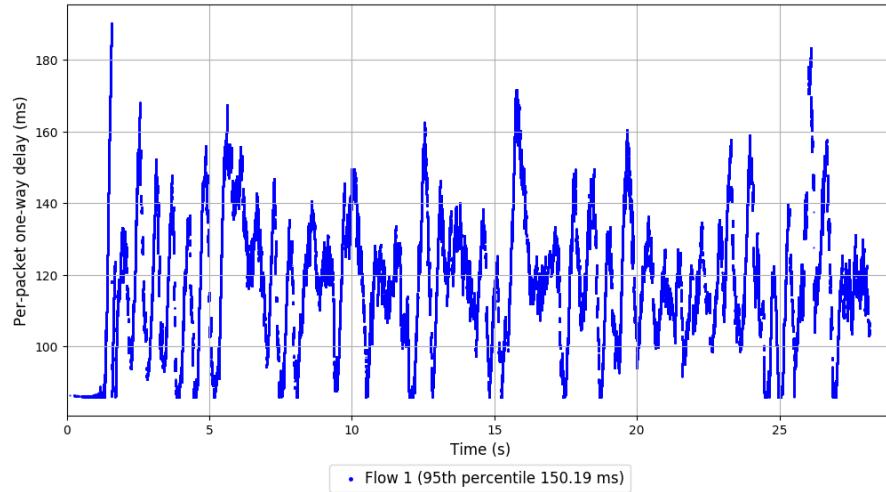
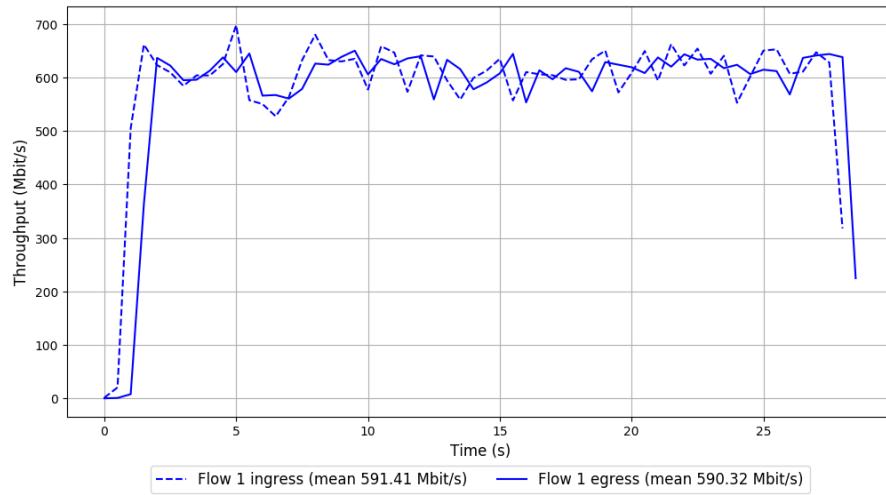


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 21:17:43
End at: 2019-07-11 21:18:13
Local clock offset: 4.514 ms
Remote clock offset: 2.483 ms

# Below is generated by plot.py at 2019-07-12 01:27:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 590.32 Mbit/s
95th percentile per-packet one-way delay: 150.185 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 590.32 Mbit/s
95th percentile per-packet one-way delay: 150.185 ms
Loss rate: 0.80%
```

Run 1: Report of Indigo-MusesT — Data Link

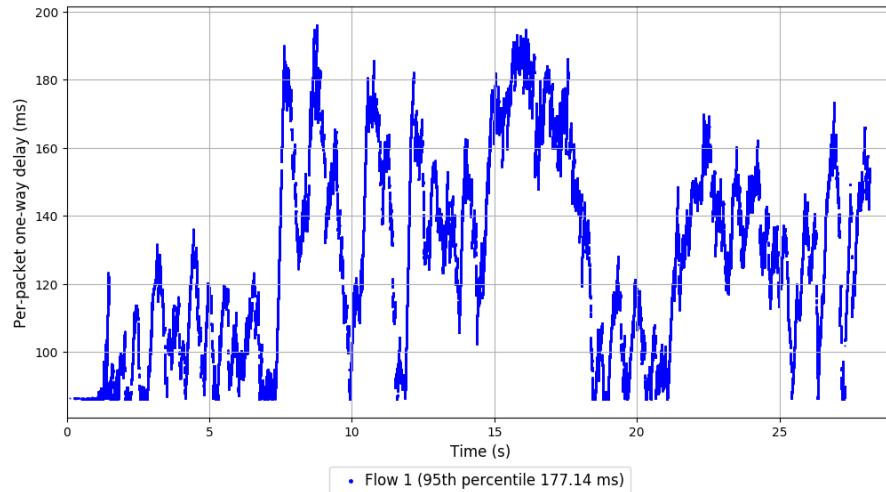
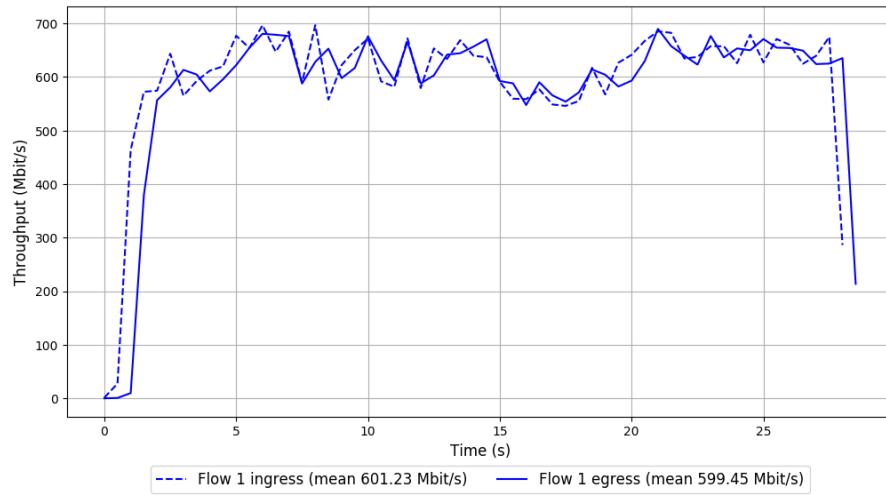


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 21:53:27
End at: 2019-07-11 21:53:57
Local clock offset: 1.366 ms
Remote clock offset: 1.112 ms

# Below is generated by plot.py at 2019-07-12 01:32:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 599.45 Mbit/s
95th percentile per-packet one-way delay: 177.136 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 599.45 Mbit/s
95th percentile per-packet one-way delay: 177.136 ms
Loss rate: 0.91%
```

Run 2: Report of Indigo-MusesT — Data Link

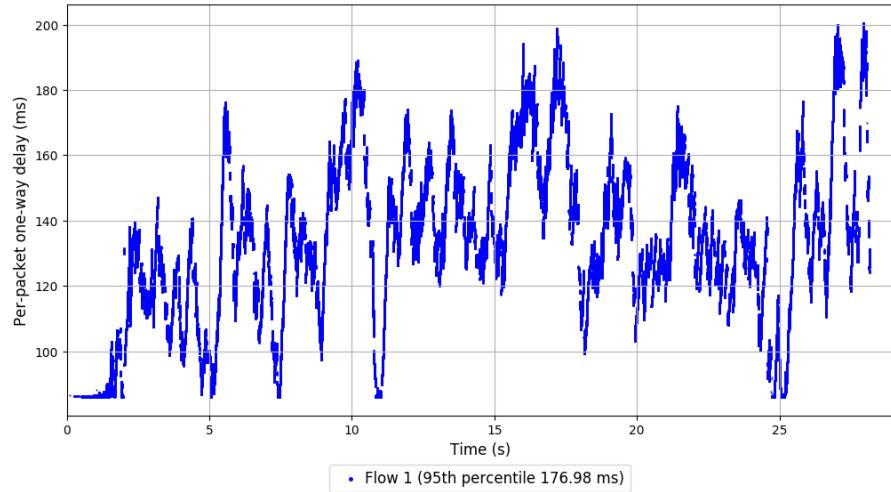
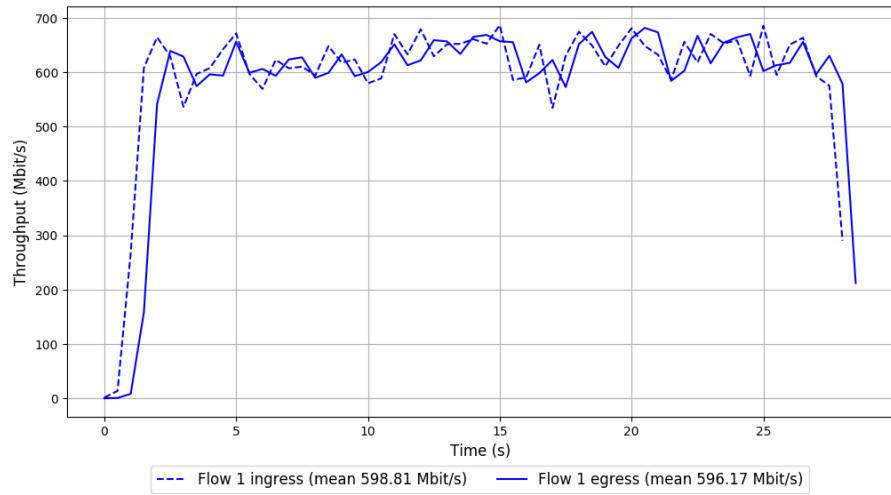


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 22:29:00
End at: 2019-07-11 22:29:30
Local clock offset: 0.581 ms
Remote clock offset: 0.528 ms

# Below is generated by plot.py at 2019-07-12 01:32:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 596.17 Mbit/s
95th percentile per-packet one-way delay: 176.978 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 596.17 Mbit/s
95th percentile per-packet one-way delay: 176.978 ms
Loss rate: 1.05%
```

Run 3: Report of Indigo-MusesT — Data Link

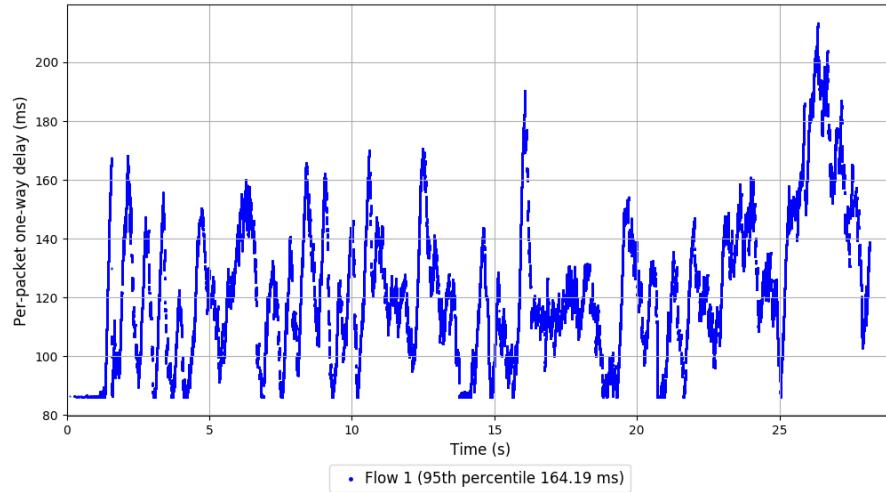
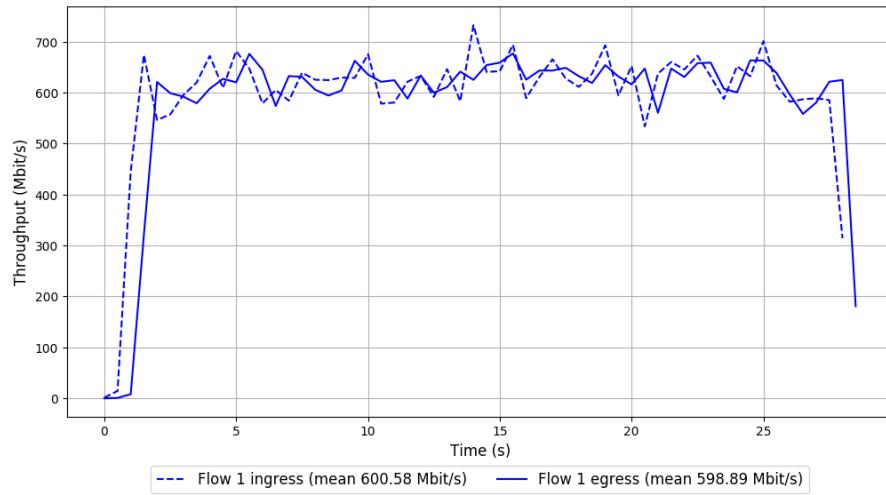


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 23:04:31
End at: 2019-07-11 23:05:01
Local clock offset: 0.426 ms
Remote clock offset: 0.14 ms

# Below is generated by plot.py at 2019-07-12 01:33:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 598.89 Mbit/s
95th percentile per-packet one-way delay: 164.192 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 598.89 Mbit/s
95th percentile per-packet one-way delay: 164.192 ms
Loss rate: 0.89%
```

Run 4: Report of Indigo-MusesT — Data Link

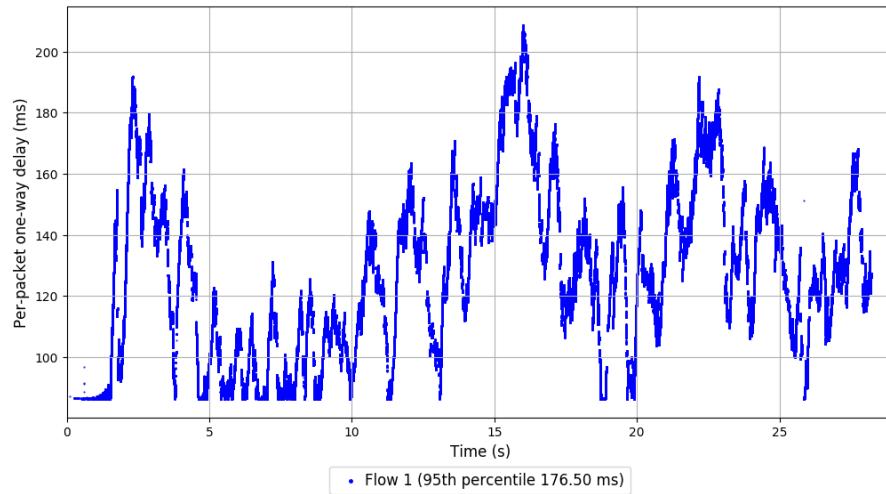
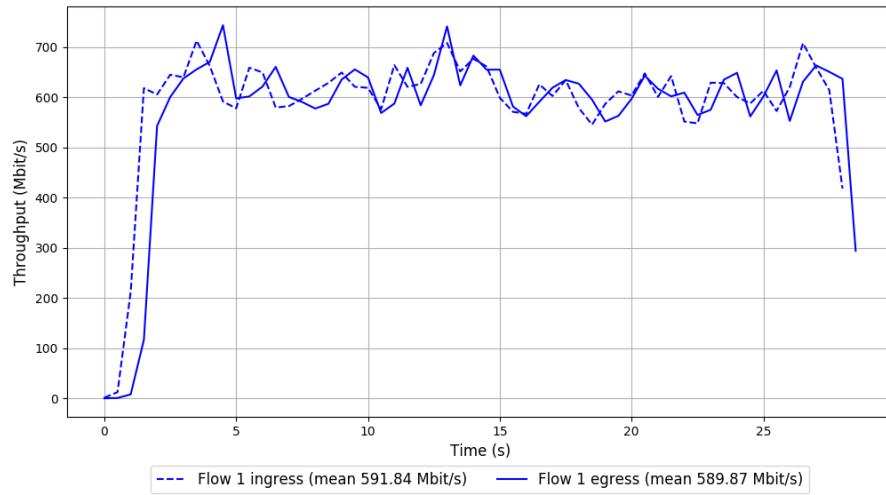


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 23:39:55
End at: 2019-07-11 23:40:25
Local clock offset: 0.234 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-07-12 01:33:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 589.87 Mbit/s
95th percentile per-packet one-way delay: 176.500 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 589.87 Mbit/s
95th percentile per-packet one-way delay: 176.500 ms
Loss rate: 0.93%
```

Run 5: Report of Indigo-MusesT — Data Link

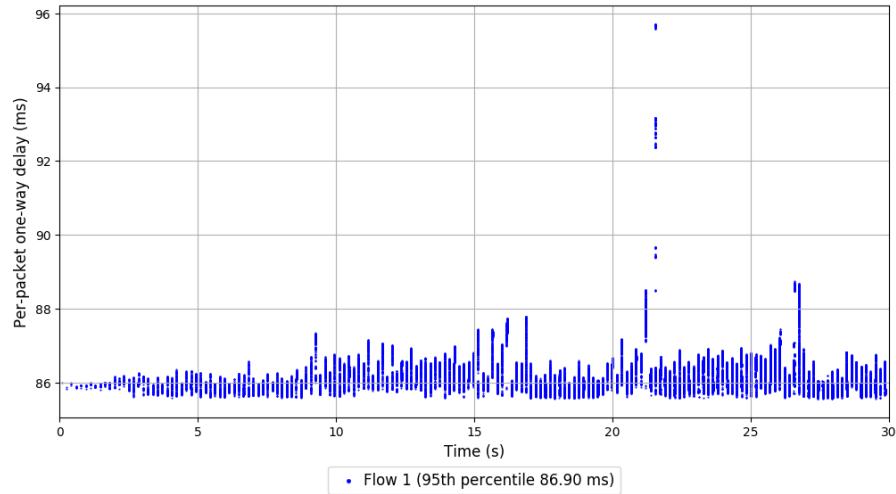
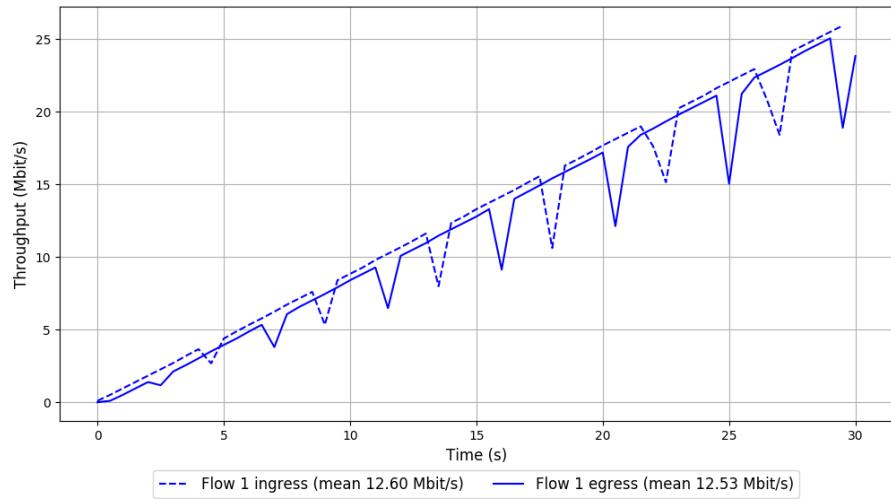


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-07-11 21:12:04
End at: 2019-07-11 21:12:34
Local clock offset: 3.659 ms
Remote clock offset: 2.317 ms

# Below is generated by plot.py at 2019-07-12 01:33:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 86.902 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 86.902 ms
Loss rate: 1.15%
```

Run 1: Report of LEDBAT — Data Link

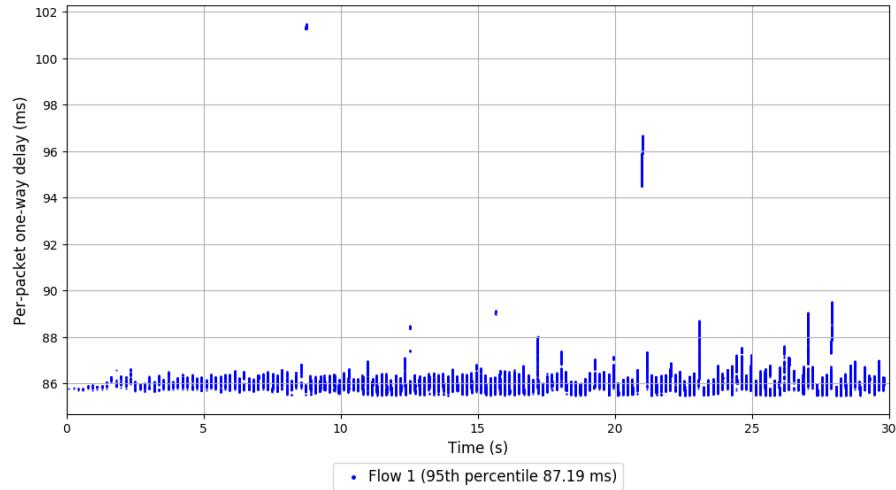
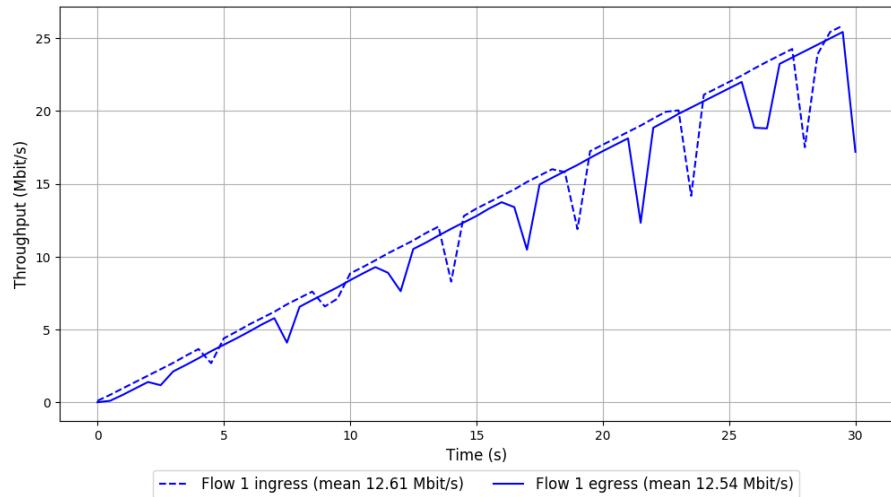


Run 2: Statistics of LEDBAT

```
Start at: 2019-07-11 21:47:48
End at: 2019-07-11 21:48:18
Local clock offset: 0.677 ms
Remote clock offset: 1.005 ms

# Below is generated by plot.py at 2019-07-12 01:33:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 87.191 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 87.191 ms
Loss rate: 1.15%
```

Run 2: Report of LEDBAT — Data Link

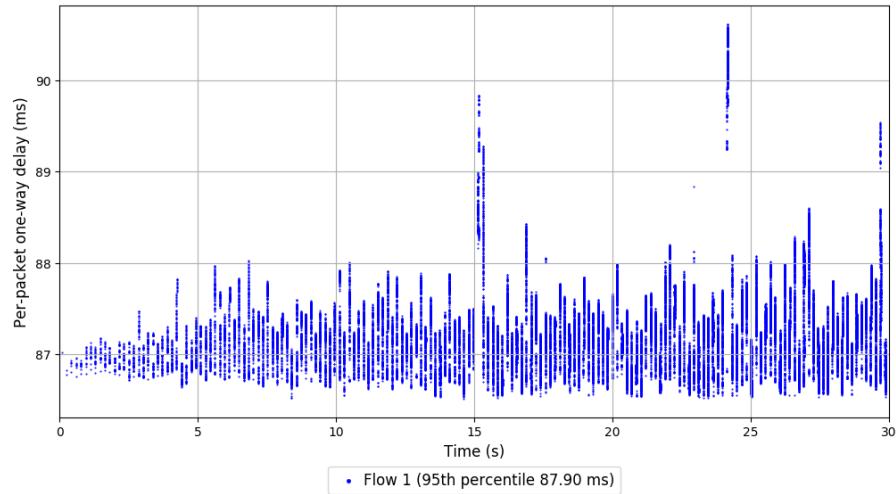
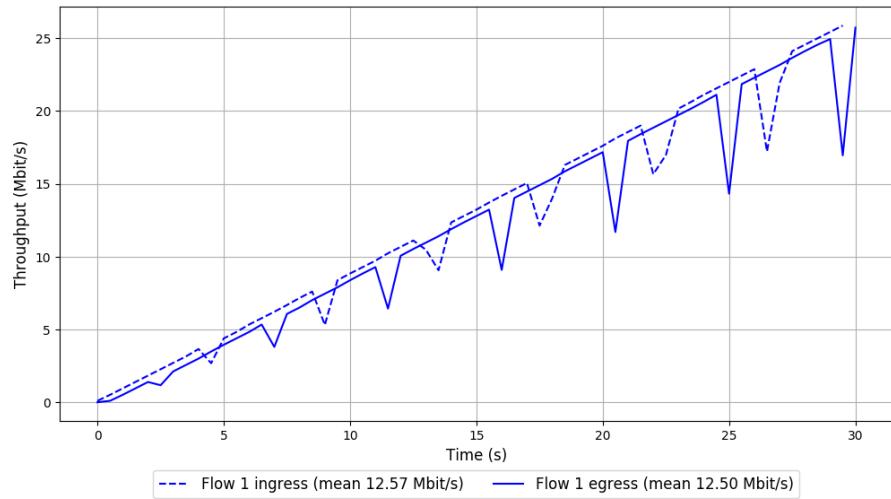


Run 3: Statistics of LEDBAT

```
Start at: 2019-07-11 22:23:25
End at: 2019-07-11 22:23:55
Local clock offset: 0.809 ms
Remote clock offset: 0.533 ms

# Below is generated by plot.py at 2019-07-12 01:33:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 87.898 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 87.898 ms
Loss rate: 1.15%
```

Run 3: Report of LEDBAT — Data Link

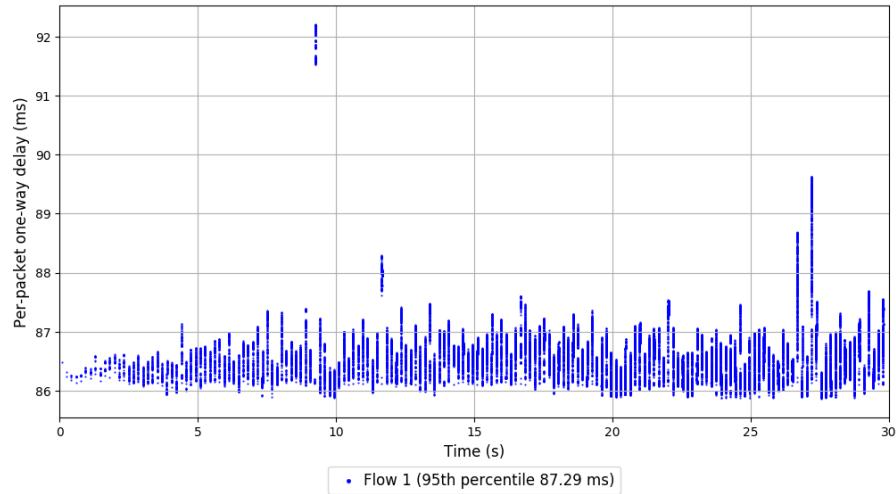
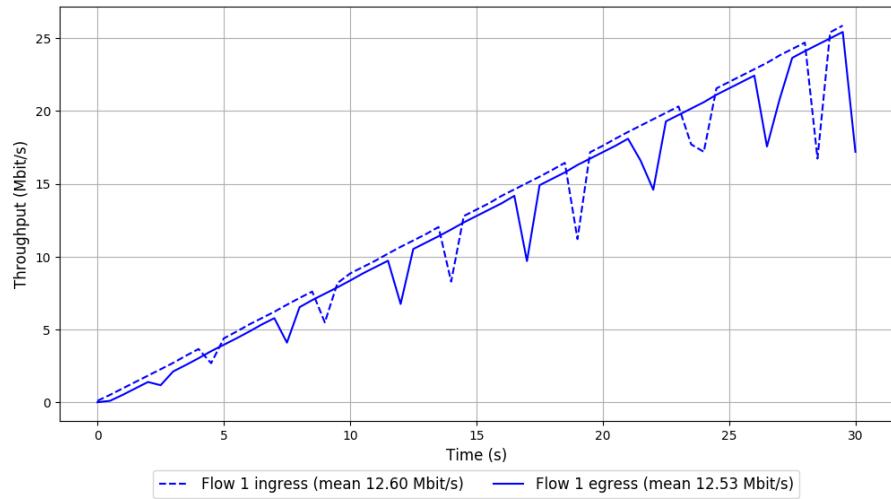


Run 4: Statistics of LEDBAT

```
Start at: 2019-07-11 22:58:59
End at: 2019-07-11 22:59:29
Local clock offset: 0.286 ms
Remote clock offset: 0.179 ms

# Below is generated by plot.py at 2019-07-12 01:33:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 87.290 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 87.290 ms
Loss rate: 1.15%
```

Run 4: Report of LEDBAT — Data Link

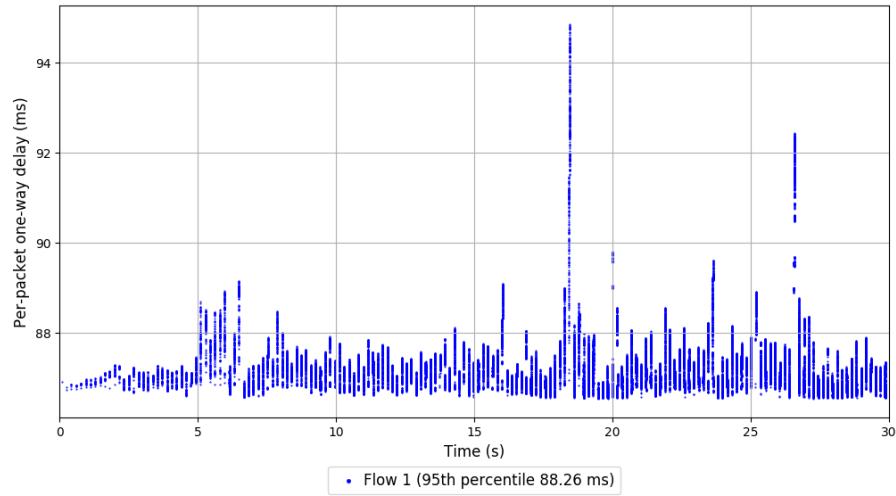
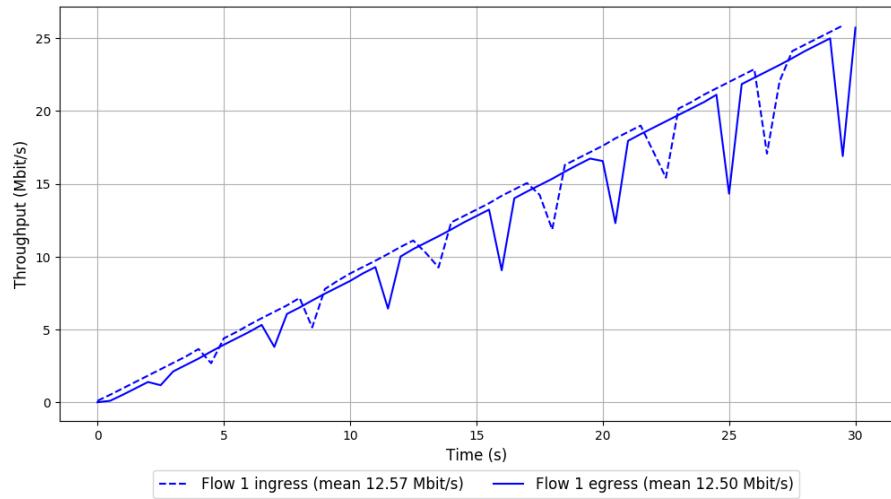


Run 5: Statistics of LEDBAT

```
Start at: 2019-07-11 23:34:12
End at: 2019-07-11 23:34:42
Local clock offset: 0.536 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-07-12 01:33:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 88.259 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 88.259 ms
Loss rate: 1.15%
```

Run 5: Report of LEDBAT — Data Link

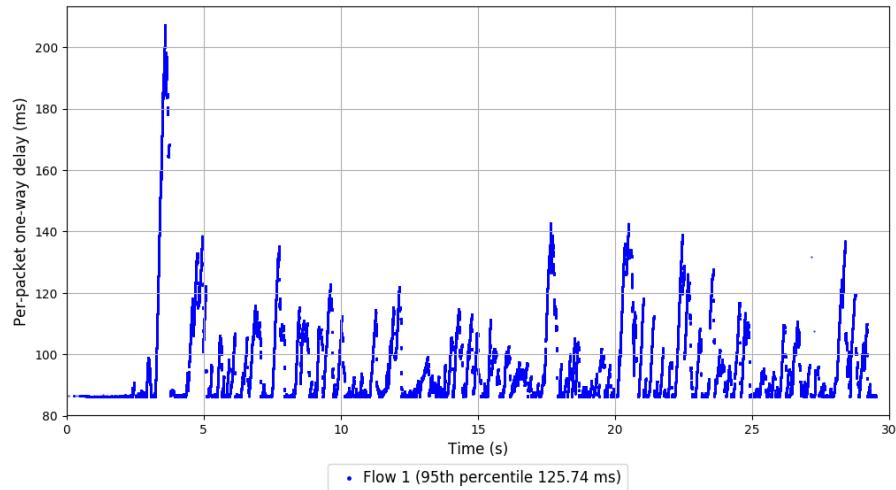
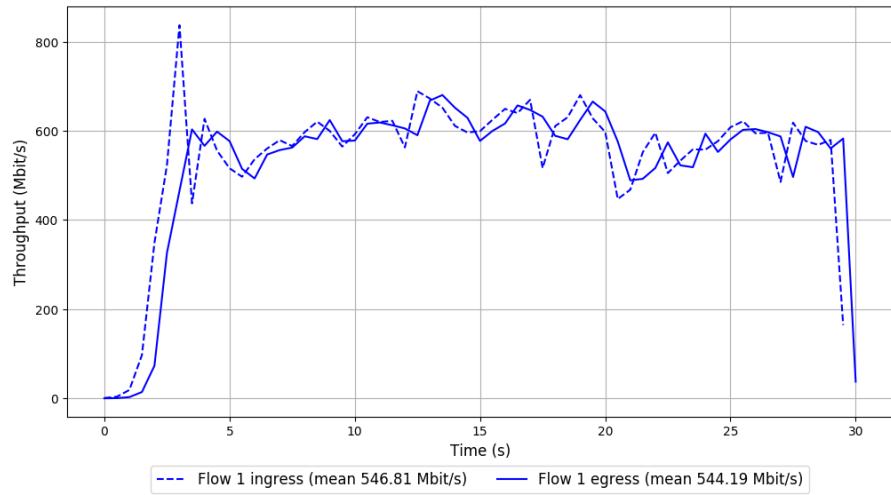


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 21:16:07
End at: 2019-07-11 21:16:37
Local clock offset: 4.39 ms
Remote clock offset: 2.43 ms

# Below is generated by plot.py at 2019-07-12 01:34:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 544.19 Mbit/s
95th percentile per-packet one-way delay: 125.739 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 544.19 Mbit/s
95th percentile per-packet one-way delay: 125.739 ms
Loss rate: 1.06%
```

Run 1: Report of Muses_DecisionTree — Data Link

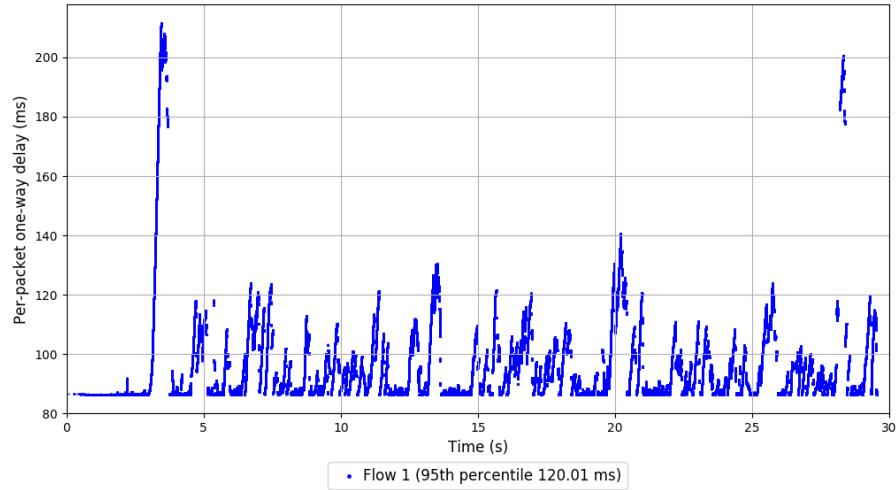
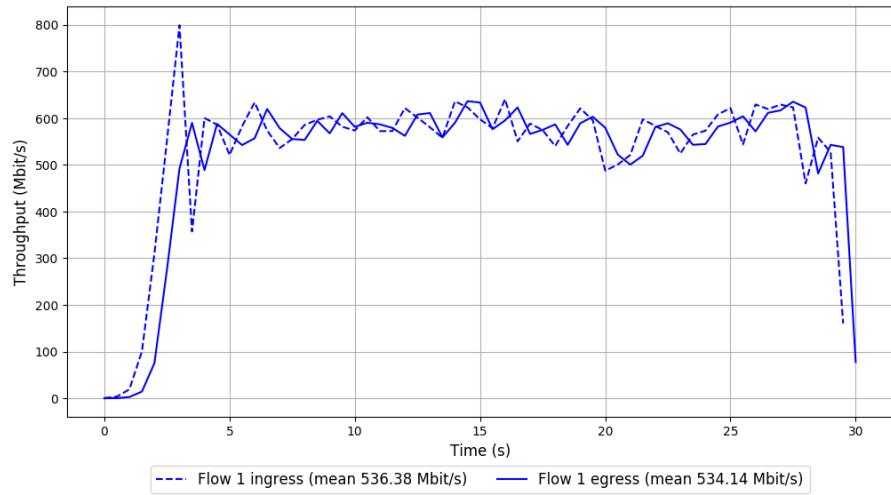


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 21:51:51
End at: 2019-07-11 21:52:21
Local clock offset: 1.397 ms
Remote clock offset: 1.081 ms

# Below is generated by plot.py at 2019-07-12 01:34:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.14 Mbit/s
95th percentile per-packet one-way delay: 120.013 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 534.14 Mbit/s
95th percentile per-packet one-way delay: 120.013 ms
Loss rate: 1.00%
```

Run 2: Report of Muses_DecisionTree — Data Link

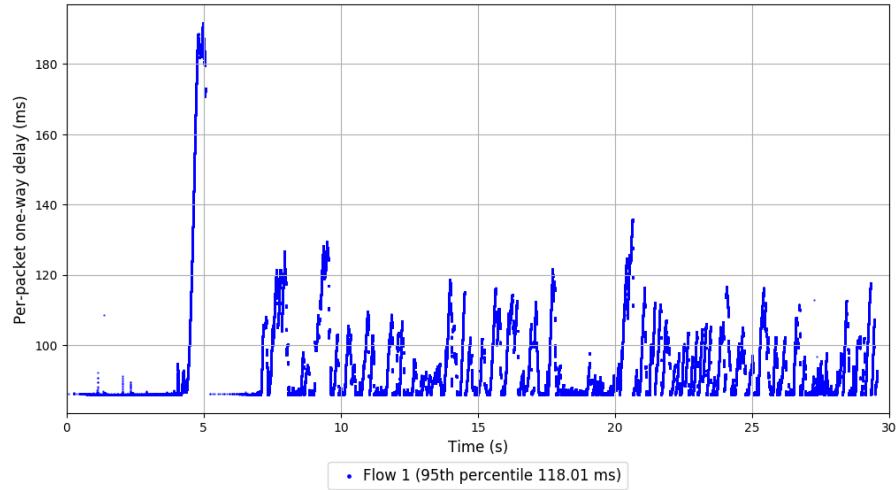
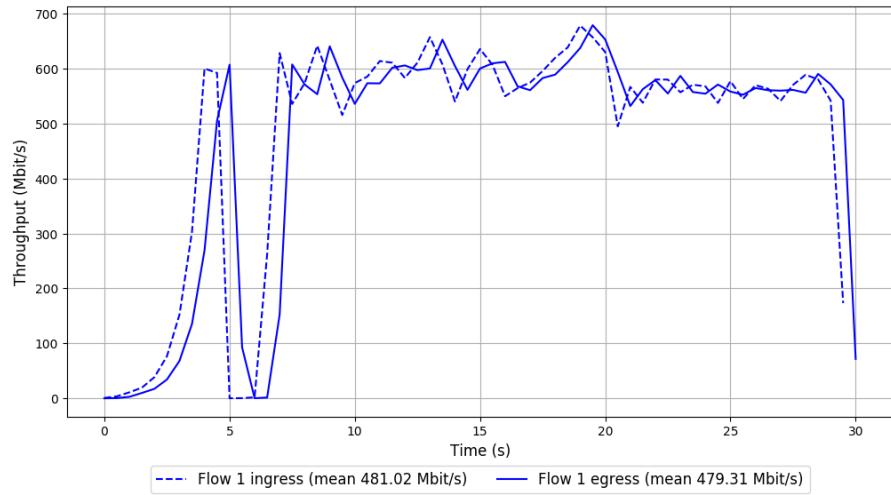


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 22:27:26
End at: 2019-07-11 22:27:56
Local clock offset: 0.146 ms
Remote clock offset: 0.597 ms

# Below is generated by plot.py at 2019-07-12 01:34:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 479.31 Mbit/s
95th percentile per-packet one-way delay: 118.009 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 479.31 Mbit/s
95th percentile per-packet one-way delay: 118.009 ms
Loss rate: 0.94%
```

Run 3: Report of Muses_DecisionTree — Data Link

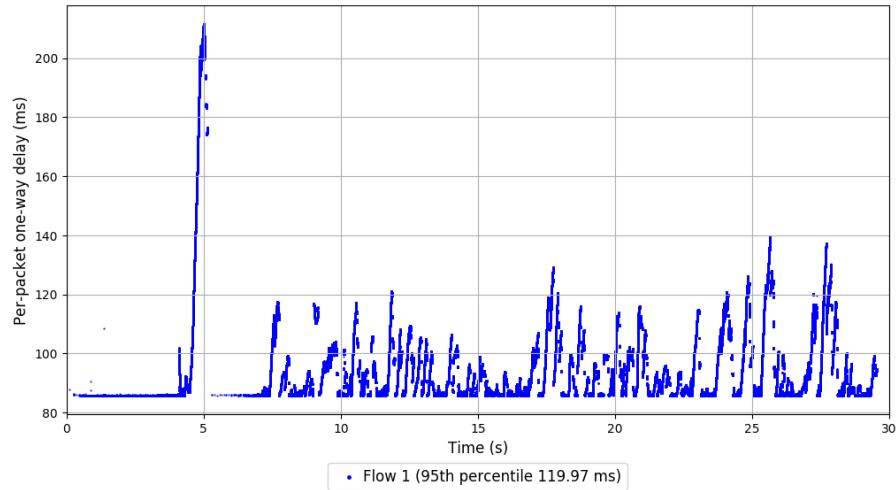
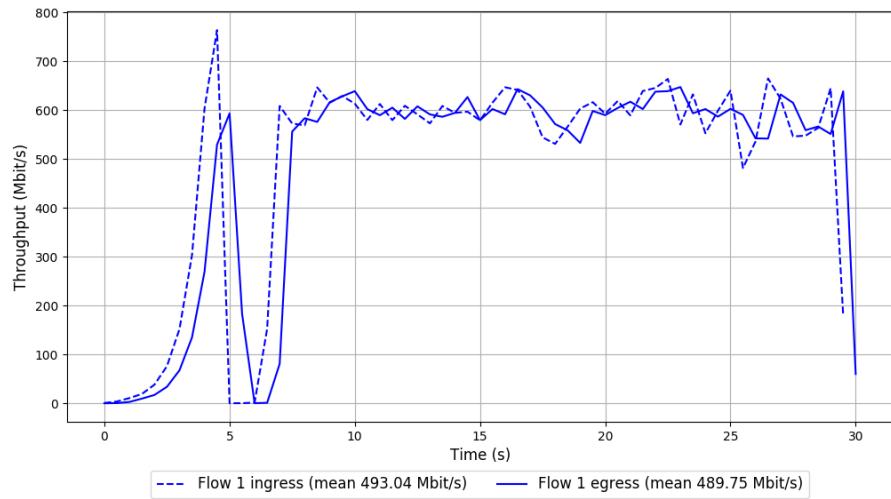


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 23:02:56
End at: 2019-07-11 23:03:26
Local clock offset: 0.115 ms
Remote clock offset: 0.172 ms

# Below is generated by plot.py at 2019-07-12 01:38:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 489.75 Mbit/s
95th percentile per-packet one-way delay: 119.972 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 489.75 Mbit/s
95th percentile per-packet one-way delay: 119.972 ms
Loss rate: 1.25%
```

Run 4: Report of Muses_DecisionTree — Data Link

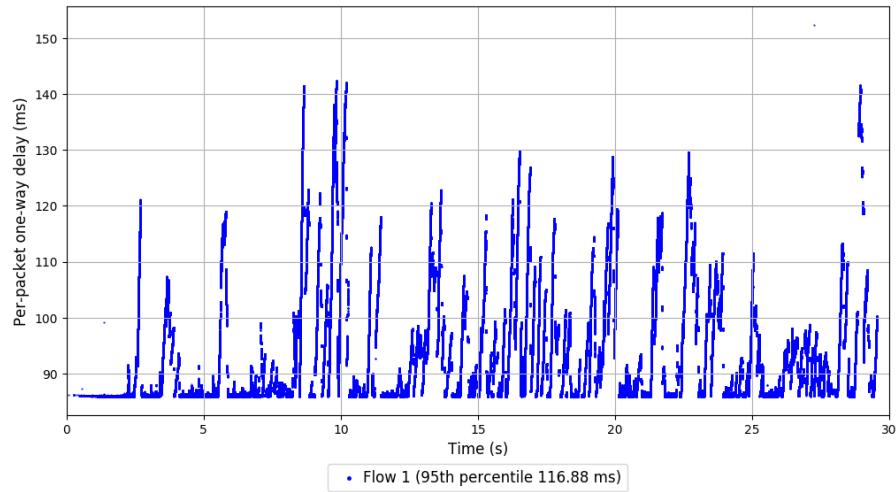
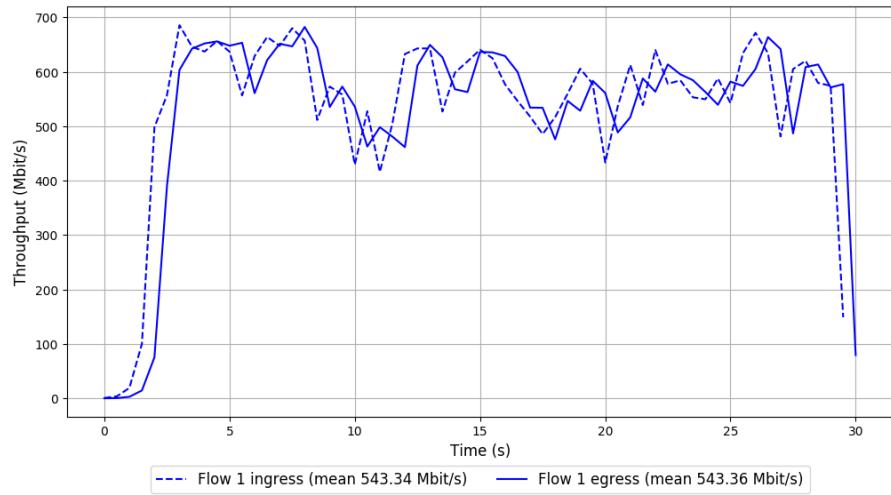


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 23:38:18
End at: 2019-07-11 23:38:48
Local clock offset: 0.213 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-07-12 01:42:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 543.36 Mbit/s
95th percentile per-packet one-way delay: 116.882 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 543.36 Mbit/s
95th percentile per-packet one-way delay: 116.882 ms
Loss rate: 0.58%
```

Run 5: Report of Muses_DecisionTree — Data Link

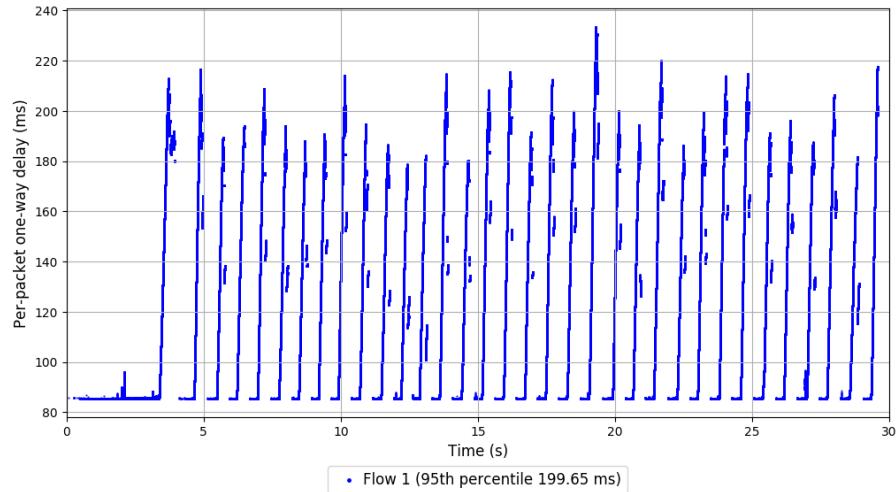
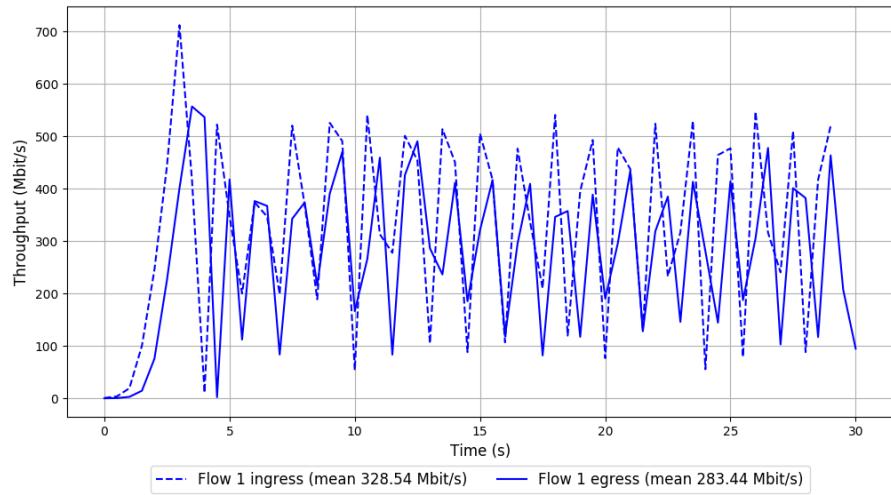


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-11 21:32:05
End at: 2019-07-11 21:32:35
Local clock offset: 0.921 ms
Remote clock offset: 1.0 ms

# Below is generated by plot.py at 2019-07-12 01:42:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 283.44 Mbit/s
95th percentile per-packet one-way delay: 199.651 ms
Loss rate: 13.71%
-- Flow 1:
Average throughput: 283.44 Mbit/s
95th percentile per-packet one-way delay: 199.651 ms
Loss rate: 13.71%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

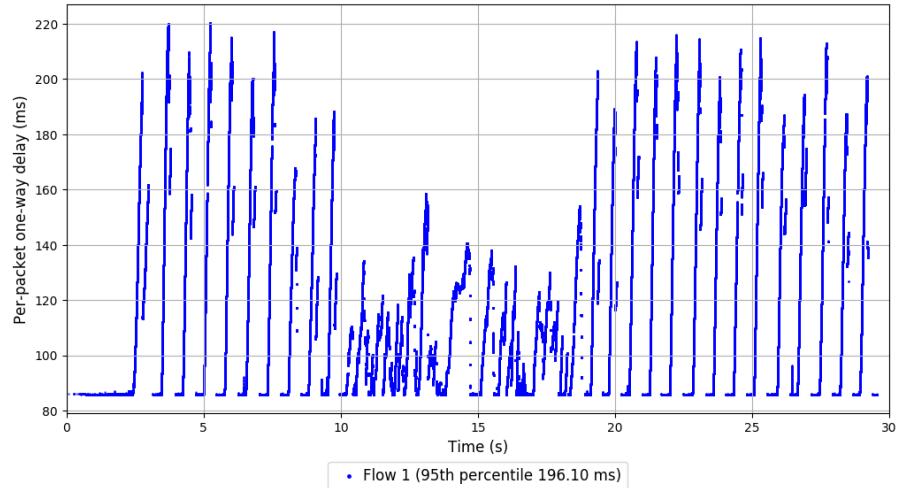
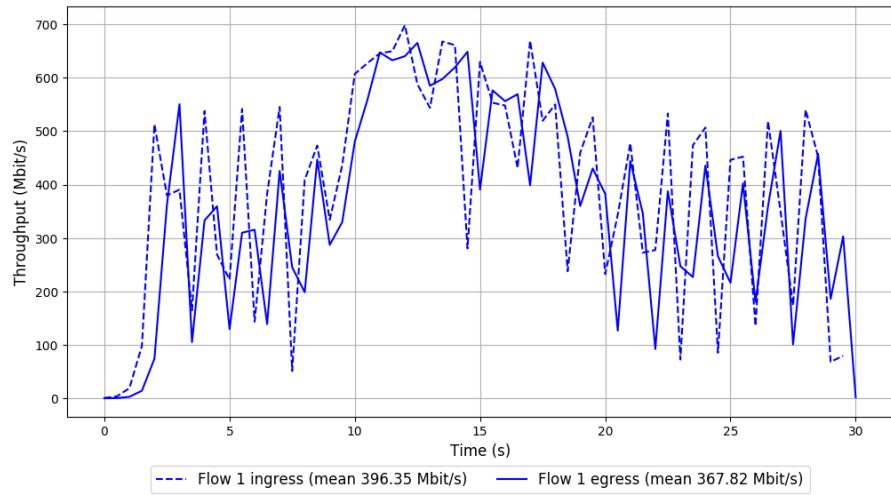


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-11 22:07:46
End at: 2019-07-11 22:08:16
Local clock offset: 0.337 ms
Remote clock offset: 0.471 ms

# Below is generated by plot.py at 2019-07-12 01:42:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 367.82 Mbit/s
95th percentile per-packet one-way delay: 196.104 ms
Loss rate: 7.74%
-- Flow 1:
Average throughput: 367.82 Mbit/s
95th percentile per-packet one-way delay: 196.104 ms
Loss rate: 7.74%
```

Run 2: Report of Muses_DecisionTreeH0 — Data Link

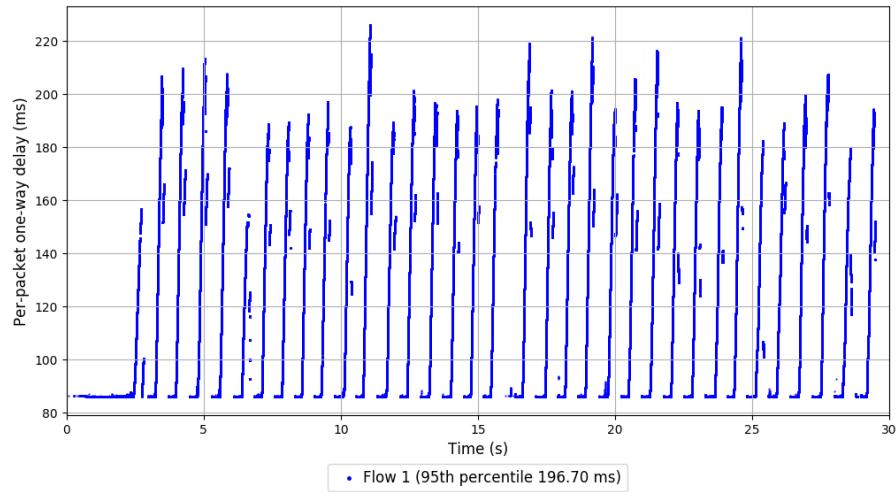
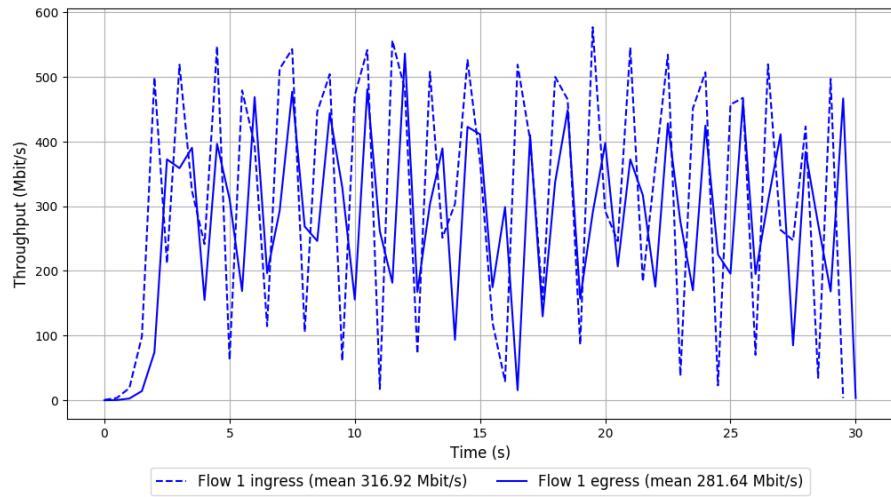


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-11 22:43:10
End at: 2019-07-11 22:43:41
Local clock offset: 0.07 ms
Remote clock offset: 0.173 ms

# Below is generated by plot.py at 2019-07-12 01:42:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 281.64 Mbit/s
95th percentile per-packet one-way delay: 196.704 ms
Loss rate: 11.83%
-- Flow 1:
Average throughput: 281.64 Mbit/s
95th percentile per-packet one-way delay: 196.704 ms
Loss rate: 11.83%
```

Run 3: Report of Muses_DecisionTreeH0 — Data Link

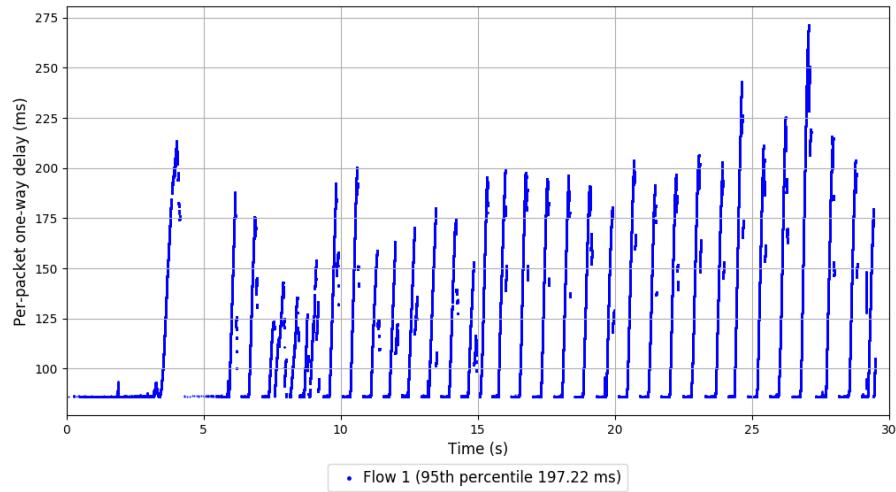
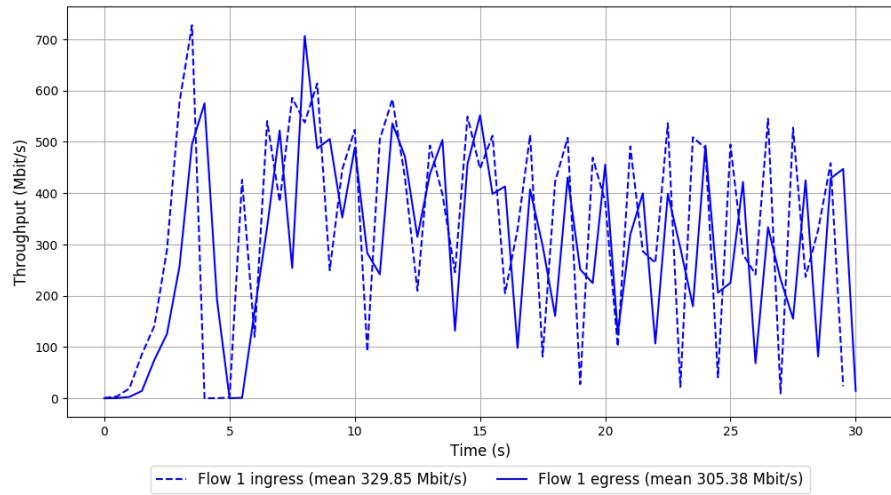


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-11 23:18:34
End at: 2019-07-11 23:19:04
Local clock offset: 0.216 ms
Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2019-07-12 01:42:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 305.38 Mbit/s
95th percentile per-packet one-way delay: 197.224 ms
Loss rate: 8.09%
-- Flow 1:
Average throughput: 305.38 Mbit/s
95th percentile per-packet one-way delay: 197.224 ms
Loss rate: 8.09%
```

Run 4: Report of Muses_DecisionTreeH0 — Data Link

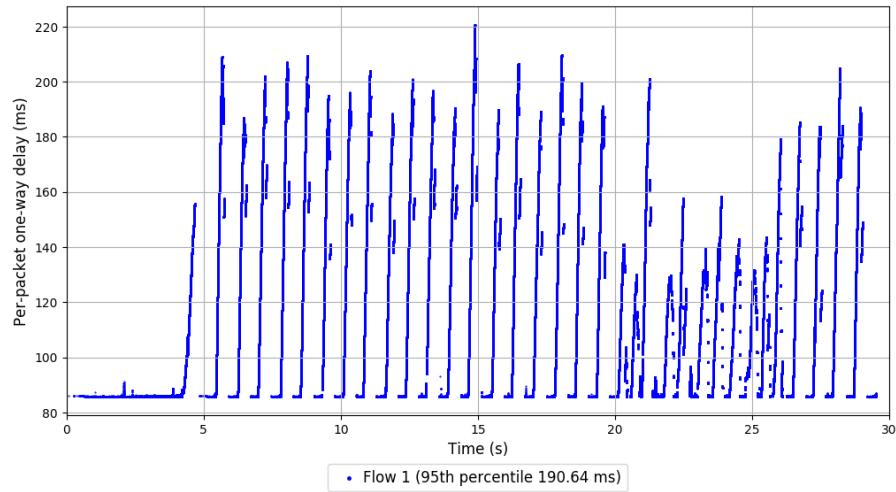
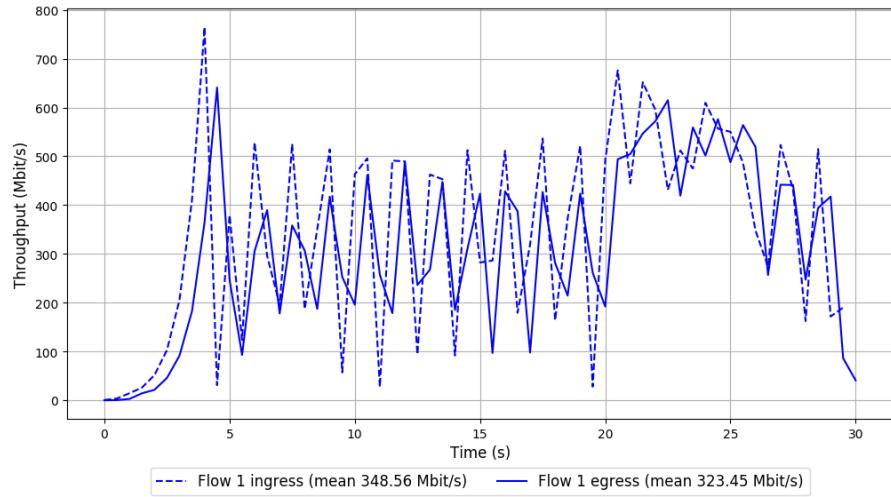


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-11 23:54:08
End at: 2019-07-11 23:54:38
Local clock offset: -0.066 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-07-12 01:42:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 323.45 Mbit/s
95th percentile per-packet one-way delay: 190.643 ms
Loss rate: 7.75%
-- Flow 1:
Average throughput: 323.45 Mbit/s
95th percentile per-packet one-way delay: 190.643 ms
Loss rate: 7.75%
```

Run 5: Report of Muses_DecisionTreeH0 — Data Link

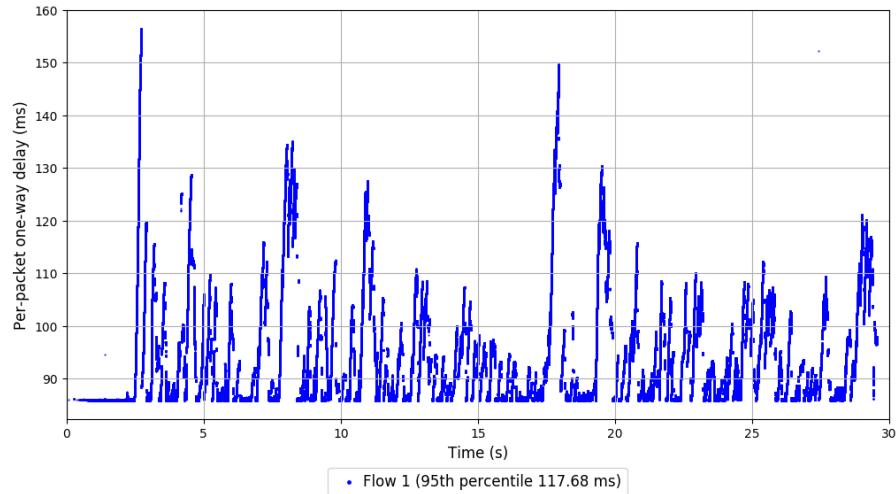
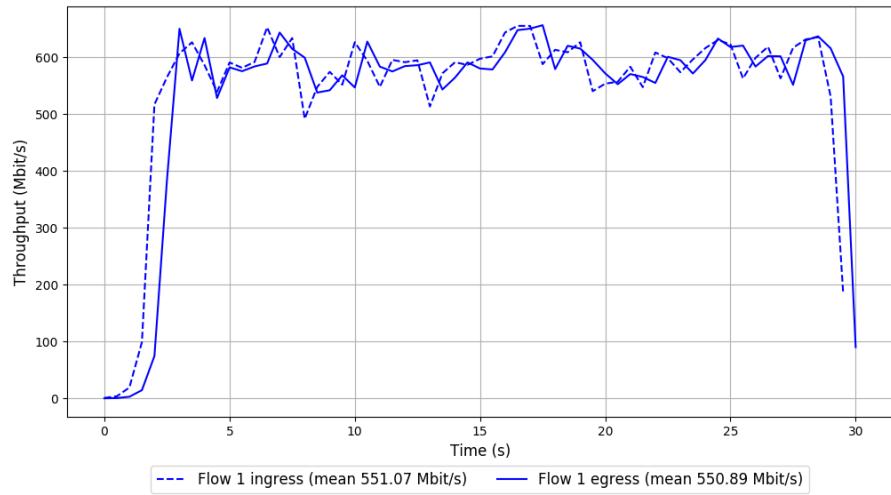


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-11 21:28:52
End at: 2019-07-11 21:29:22
Local clock offset: 1.733 ms
Remote clock offset: 1.164 ms

# Below is generated by plot.py at 2019-07-12 01:45:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 550.89 Mbit/s
95th percentile per-packet one-way delay: 117.679 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 550.89 Mbit/s
95th percentile per-packet one-way delay: 117.679 ms
Loss rate: 0.66%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

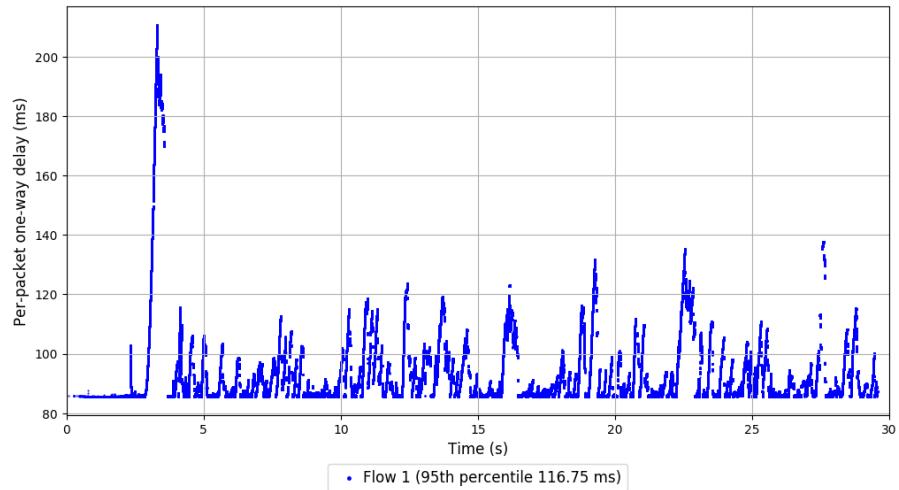
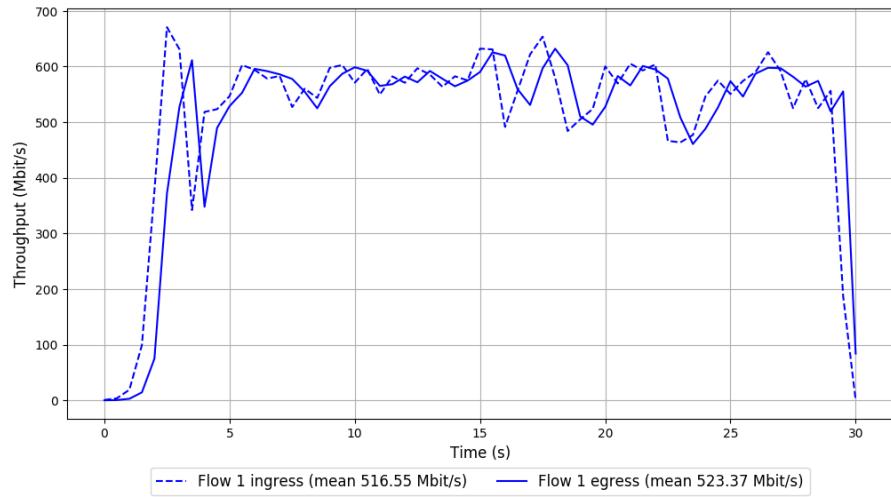


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-11 22:04:32
End at: 2019-07-11 22:05:02
Local clock offset: 0.092 ms
Remote clock offset: 0.489 ms

# Below is generated by plot.py at 2019-07-12 01:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 523.37 Mbit/s
95th percentile per-packet one-way delay: 116.754 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 523.37 Mbit/s
95th percentile per-packet one-way delay: 116.754 ms
Loss rate: 0.98%
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link

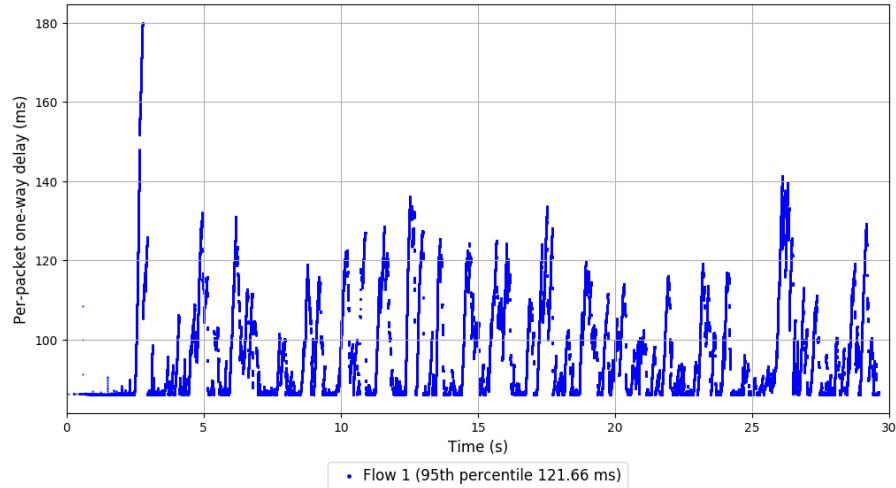
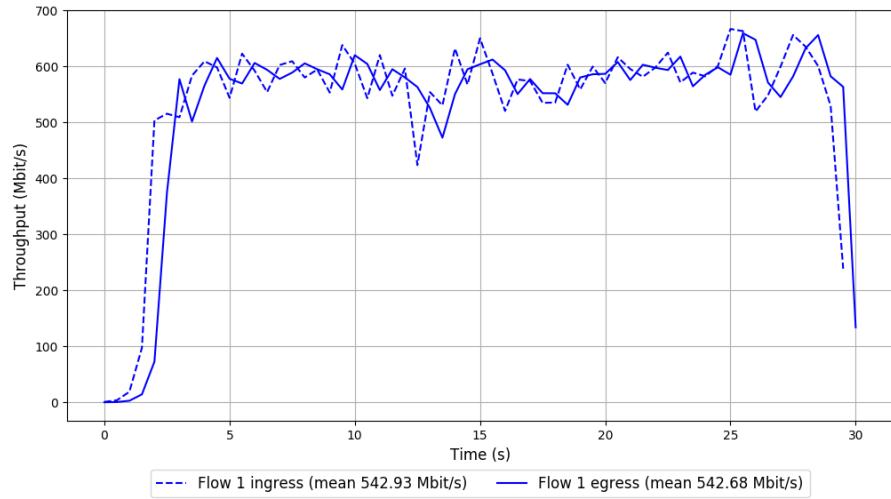


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-11 22:39:55
End at: 2019-07-11 22:40:26
Local clock offset: 0.102 ms
Remote clock offset: 0.188 ms

# Below is generated by plot.py at 2019-07-12 01:48:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 542.68 Mbit/s
95th percentile per-packet one-way delay: 121.662 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 542.68 Mbit/s
95th percentile per-packet one-way delay: 121.662 ms
Loss rate: 0.63%
```

Run 3: Report of Muses_DecisionTreeR0 — Data Link

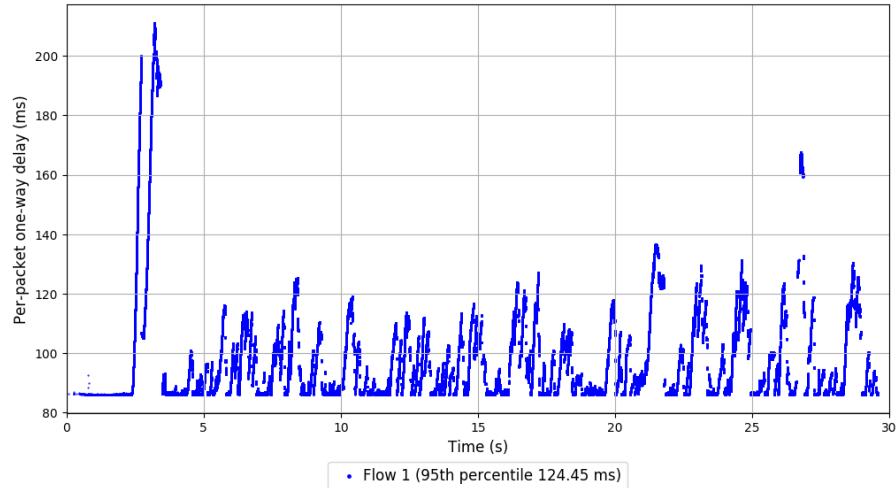
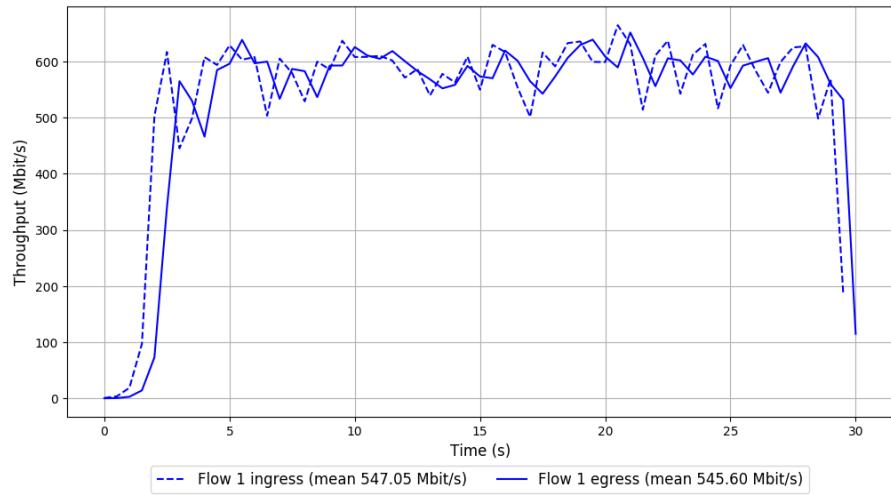


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-11 23:15:24
End at: 2019-07-11 23:15:54
Local clock offset: 0.002 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2019-07-12 01:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 545.60 Mbit/s
95th percentile per-packet one-way delay: 124.449 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 545.60 Mbit/s
95th percentile per-packet one-way delay: 124.449 ms
Loss rate: 0.85%
```

Run 4: Report of Muses_DecisionTreeR0 — Data Link

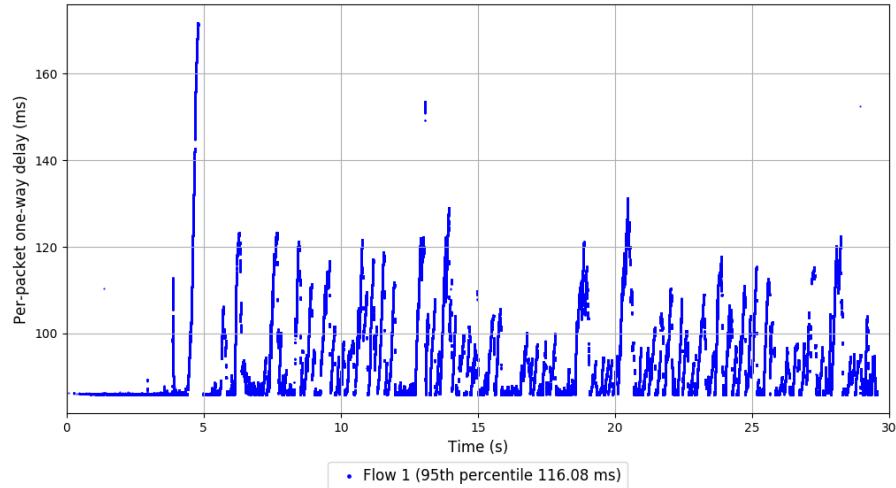
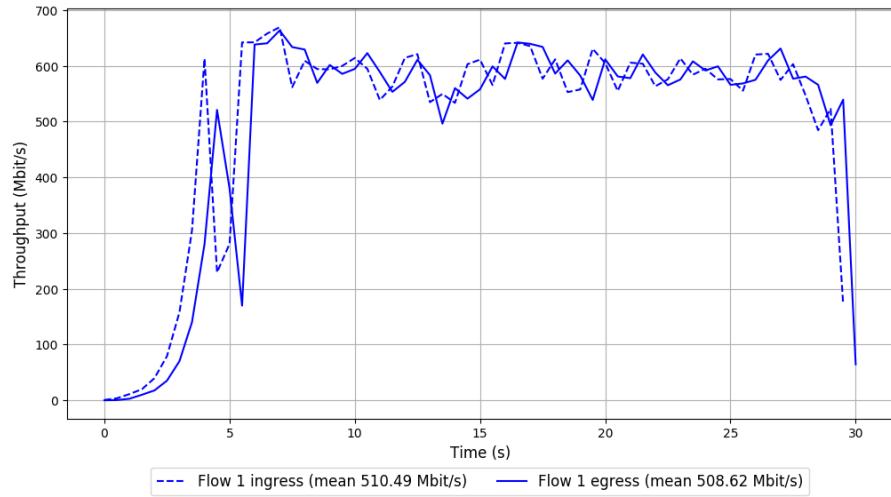


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-11 23:50:54
End at: 2019-07-11 23:51:25
Local clock offset: 0.01 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-07-12 01:49:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 508.62 Mbit/s
95th percentile per-packet one-way delay: 116.080 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 508.62 Mbit/s
95th percentile per-packet one-way delay: 116.080 ms
Loss rate: 0.95%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link

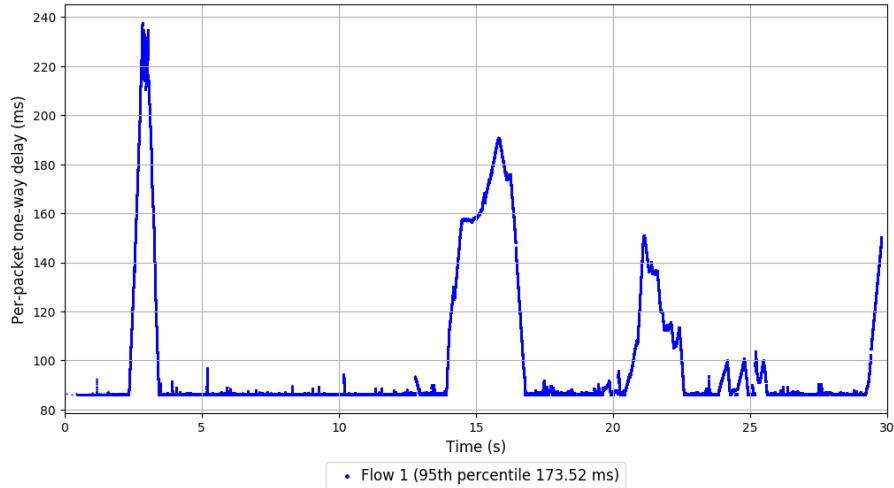
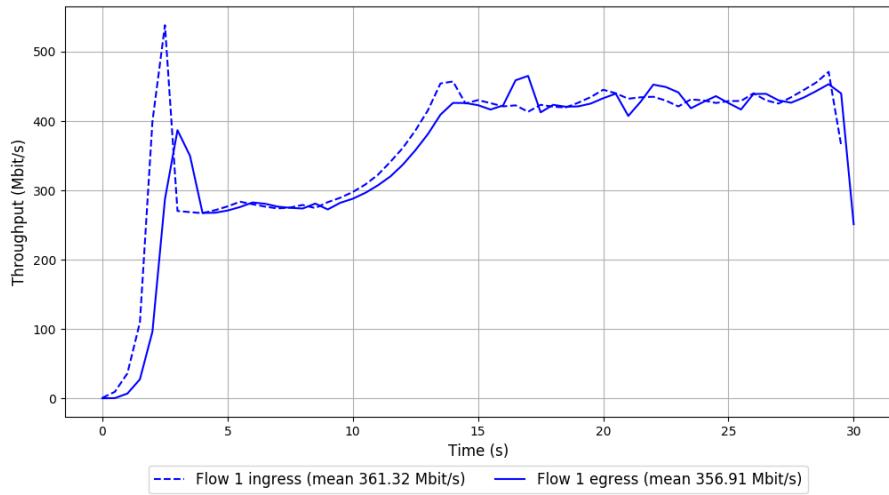


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-07-11 21:22:35
End at: 2019-07-11 21:23:05
Local clock offset: 3.303 ms
Remote clock offset: 1.796 ms

# Below is generated by plot.py at 2019-07-12 01:53:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.91 Mbit/s
95th percentile per-packet one-way delay: 173.520 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 356.91 Mbit/s
95th percentile per-packet one-way delay: 173.520 ms
Loss rate: 1.79%
```

Run 1: Report of PCC-Allegro — Data Link

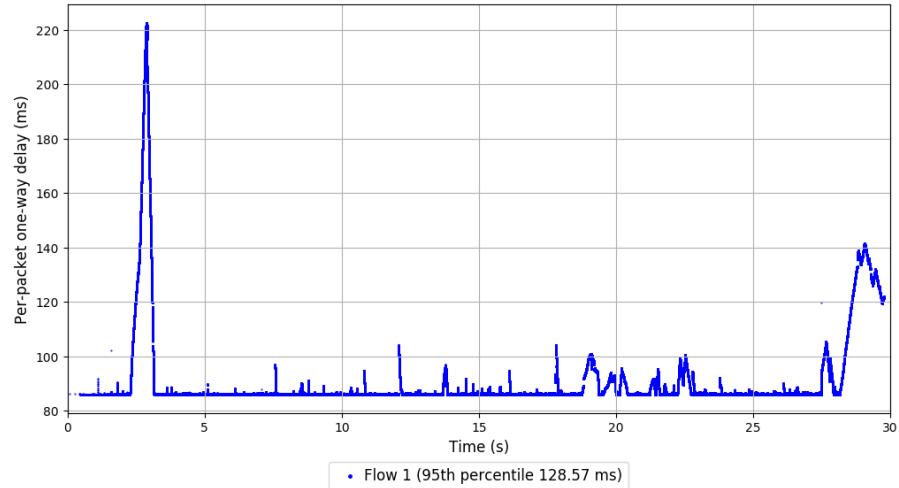
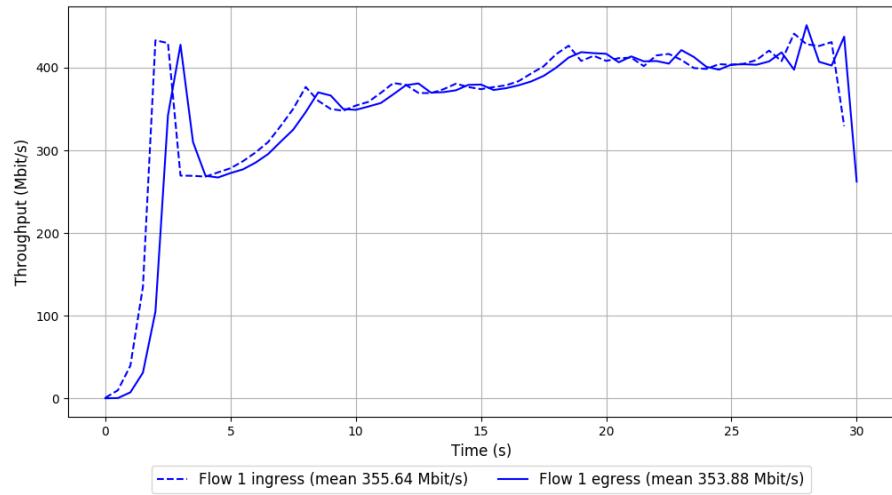


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-07-11 21:58:23
End at: 2019-07-11 21:58:53
Local clock offset: 0.806 ms
Remote clock offset: 0.772 ms

# Below is generated by plot.py at 2019-07-12 01:53:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.88 Mbit/s
95th percentile per-packet one-way delay: 128.575 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 353.88 Mbit/s
95th percentile per-packet one-way delay: 128.575 ms
Loss rate: 1.07%
```

Run 2: Report of PCC-Allegro — Data Link

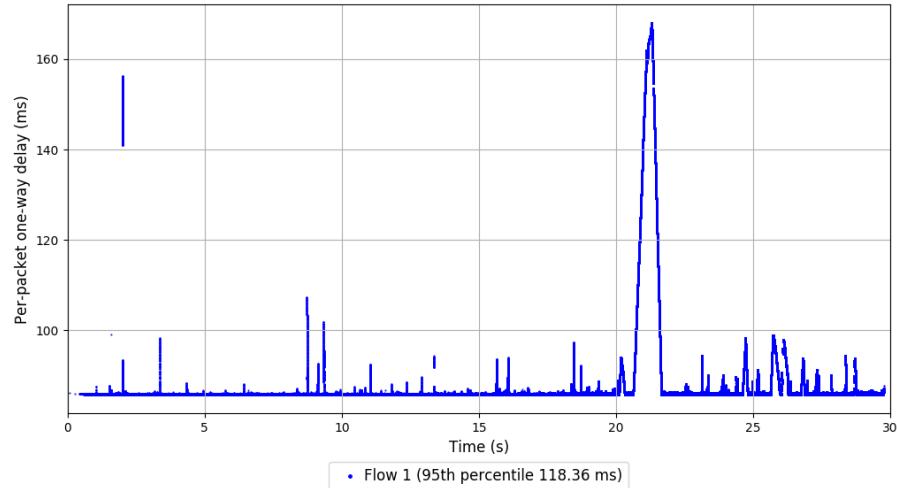
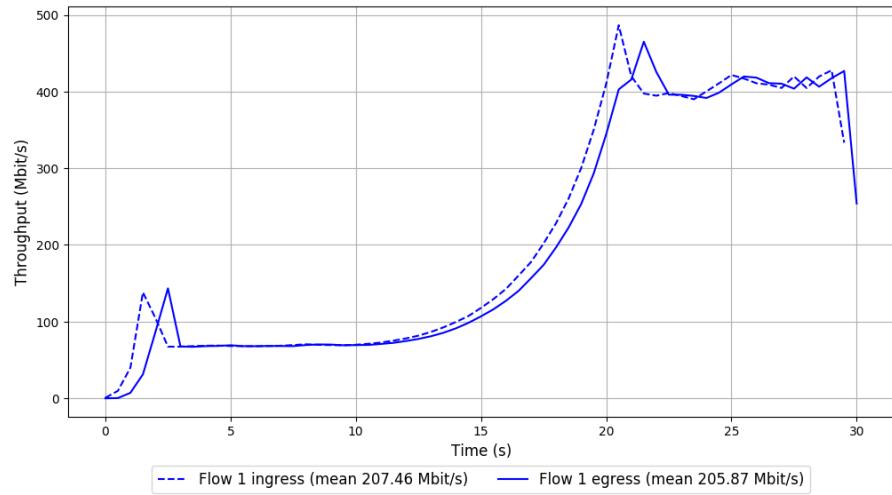


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-07-11 22:33:54
End at: 2019-07-11 22:34:24
Local clock offset: -0.089 ms
Remote clock offset: 0.296 ms

# Below is generated by plot.py at 2019-07-12 01:53:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.87 Mbit/s
95th percentile per-packet one-way delay: 118.358 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 205.87 Mbit/s
95th percentile per-packet one-way delay: 118.358 ms
Loss rate: 1.34%
```

Run 3: Report of PCC-Allegro — Data Link

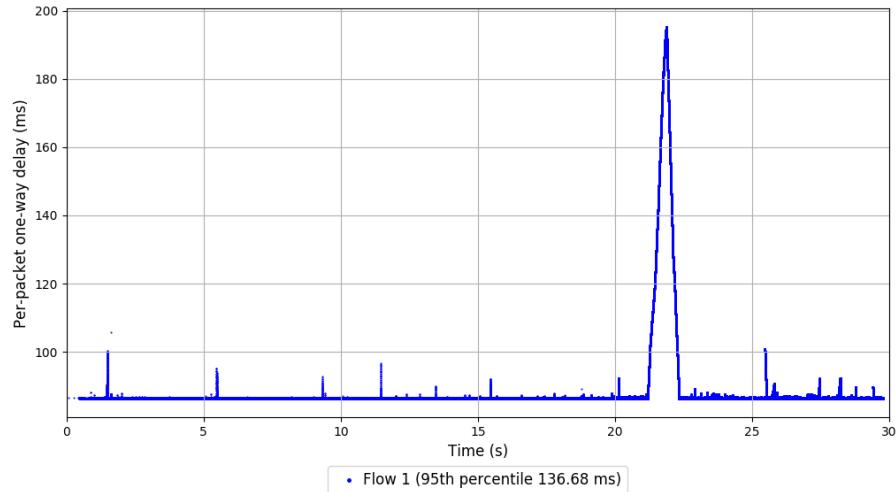
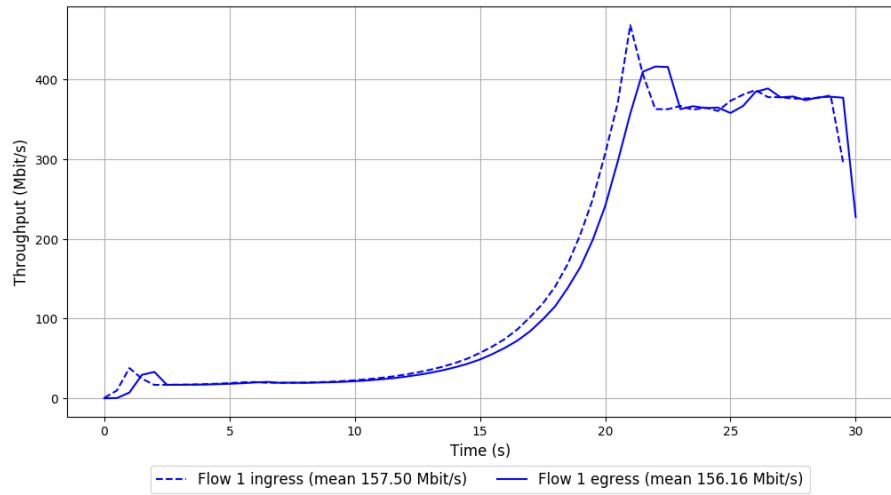


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-07-11 23:09:25
End at: 2019-07-11 23:09:55
Local clock offset: 0.447 ms
Remote clock offset: 0.076 ms

# Below is generated by plot.py at 2019-07-12 01:53:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.16 Mbit/s
95th percentile per-packet one-way delay: 136.683 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 156.16 Mbit/s
95th percentile per-packet one-way delay: 136.683 ms
Loss rate: 1.43%
```

Run 4: Report of PCC-Allegro — Data Link

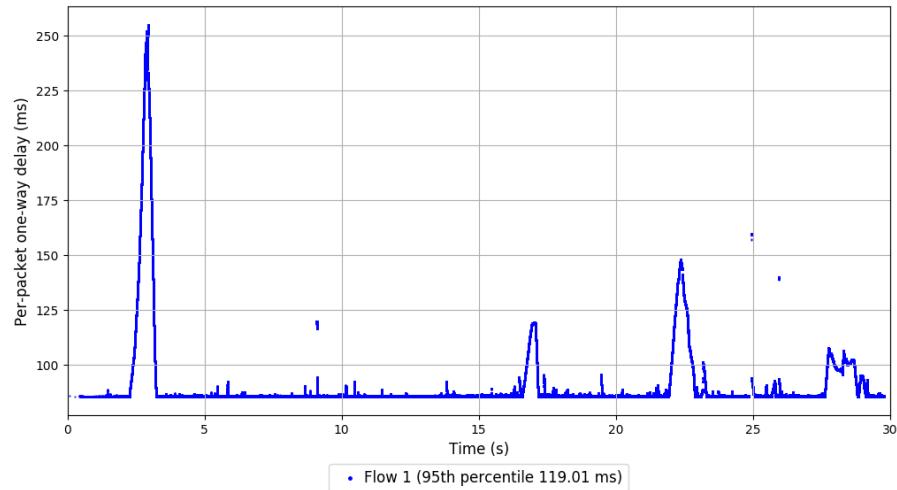
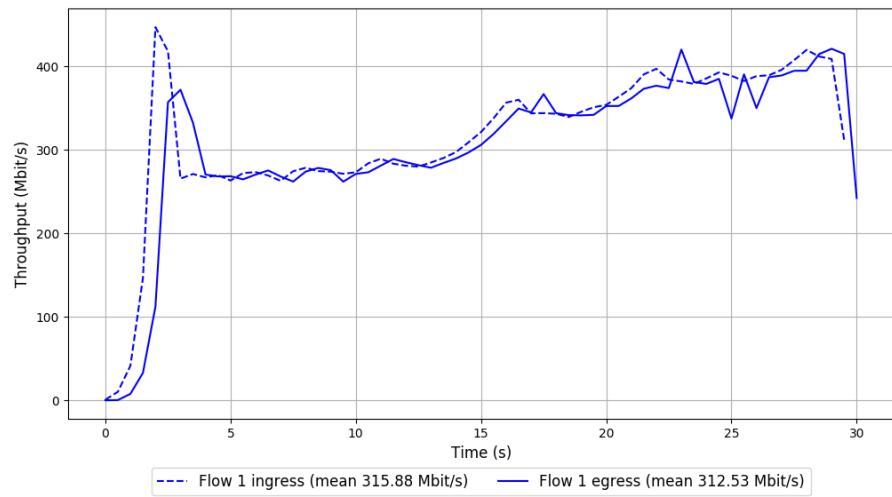


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-07-11 23:44:47
End at: 2019-07-11 23:45:17
Local clock offset: -0.421 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2019-07-12 01:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.53 Mbit/s
95th percentile per-packet one-way delay: 119.008 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 312.53 Mbit/s
95th percentile per-packet one-way delay: 119.008 ms
Loss rate: 1.63%
```

Run 5: Report of PCC-Allegro — Data Link

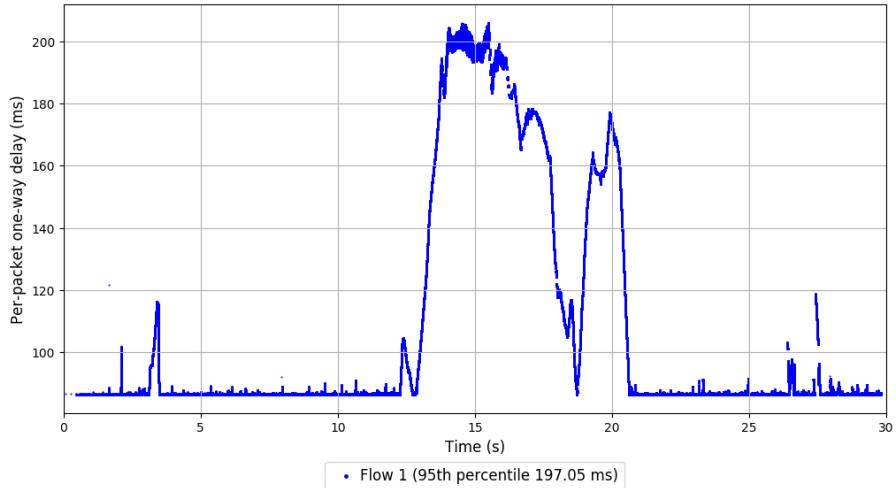
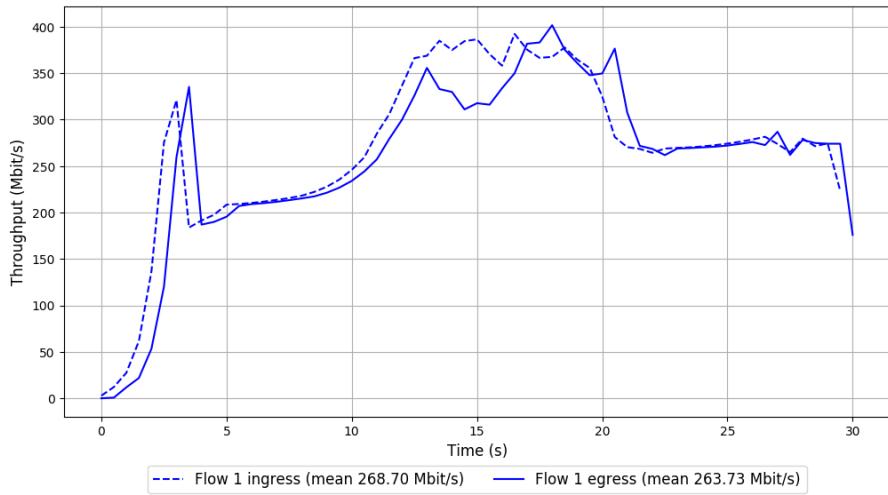


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-07-11 21:33:30
End at: 2019-07-11 21:34:00
Local clock offset: 1.522 ms
Remote clock offset: 0.942 ms

# Below is generated by plot.py at 2019-07-12 01:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 263.73 Mbit/s
95th percentile per-packet one-way delay: 197.052 ms
Loss rate: 2.42%
-- Flow 1:
Average throughput: 263.73 Mbit/s
95th percentile per-packet one-way delay: 197.052 ms
Loss rate: 2.42%
```

Run 1: Report of PCC-Expr — Data Link

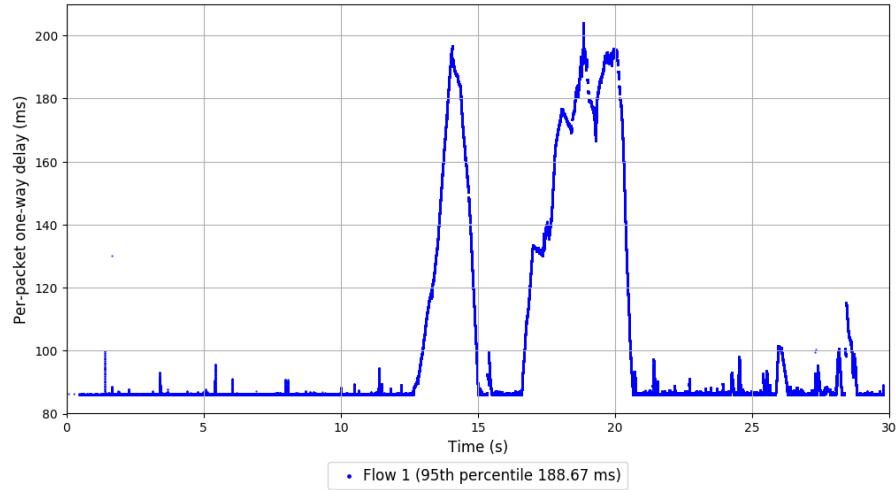
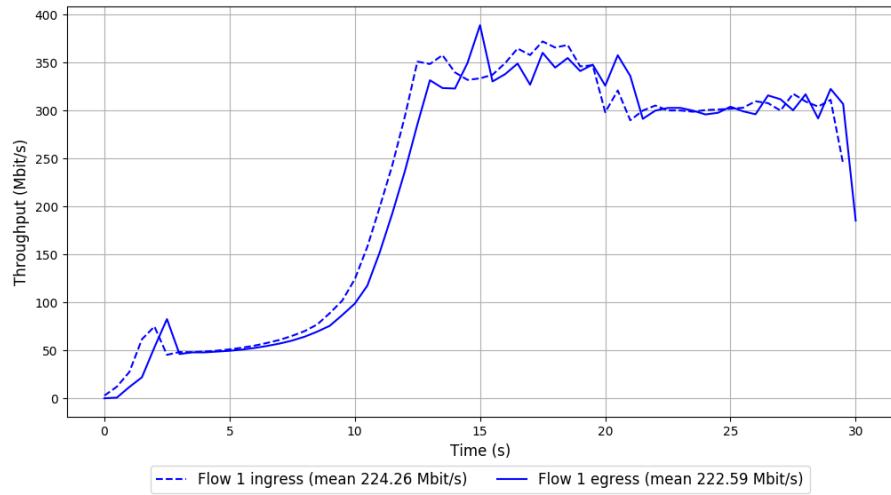


Run 2: Statistics of PCC-Expr

```
Start at: 2019-07-11 22:09:15
End at: 2019-07-11 22:09:45
Local clock offset: 0.602 ms
Remote clock offset: 0.449 ms

# Below is generated by plot.py at 2019-07-12 01:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.59 Mbit/s
95th percentile per-packet one-way delay: 188.668 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 222.59 Mbit/s
95th percentile per-packet one-way delay: 188.668 ms
Loss rate: 1.32%
```

Run 2: Report of PCC-Expr — Data Link

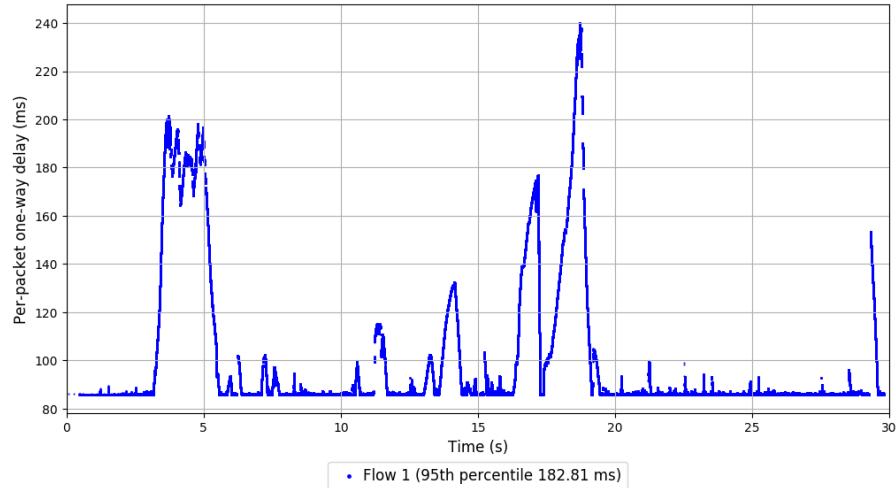
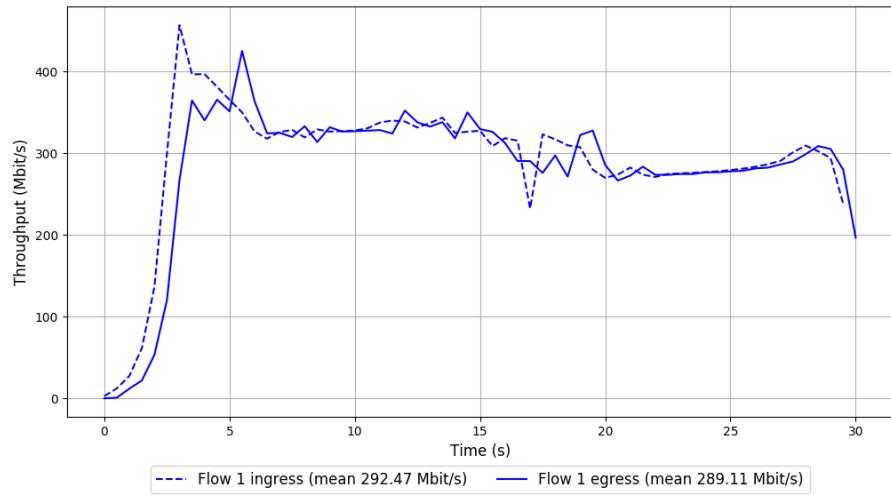


Run 3: Statistics of PCC-Expr

```
Start at: 2019-07-11 22:44:35
End at: 2019-07-11 22:45:05
Local clock offset: 0.059 ms
Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2019-07-12 02:00:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.11 Mbit/s
95th percentile per-packet one-way delay: 182.815 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 289.11 Mbit/s
95th percentile per-packet one-way delay: 182.815 ms
Loss rate: 1.72%
```

Run 3: Report of PCC-Expr — Data Link

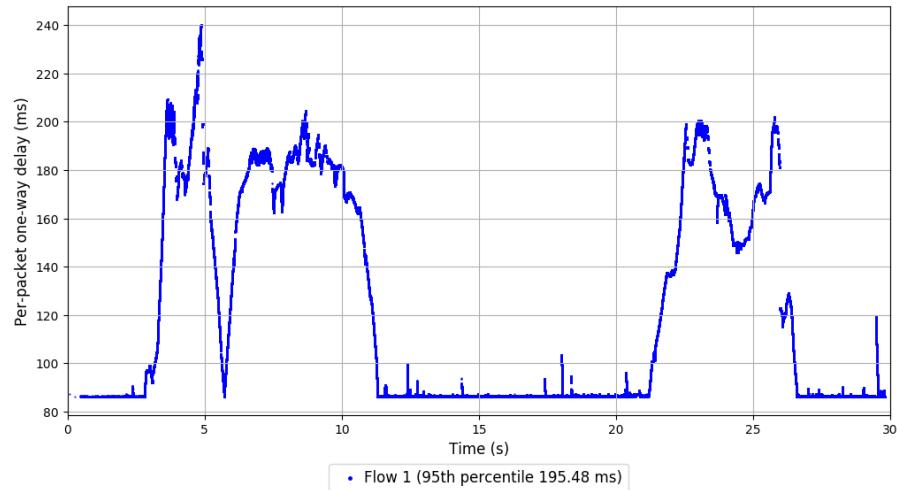
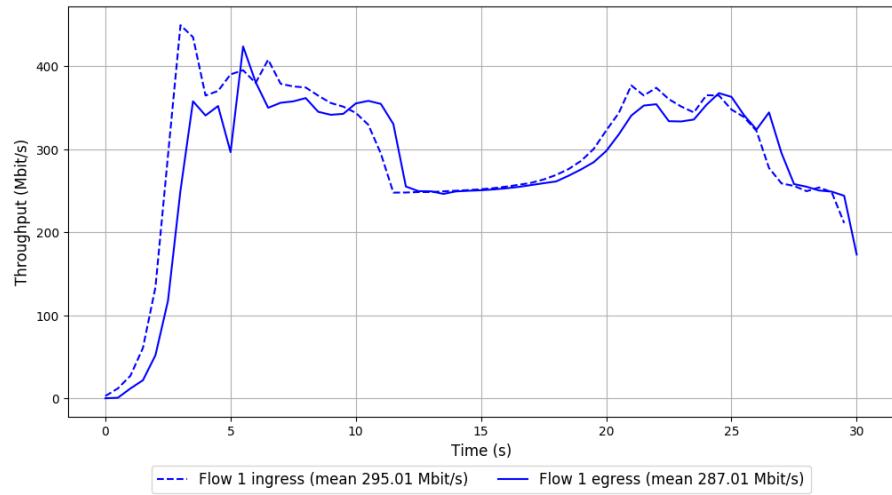


Run 4: Statistics of PCC-Expr

```
Start at: 2019-07-11 23:20:00
End at: 2019-07-11 23:20:30
Local clock offset: 0.23 ms
Remote clock offset: 0.063 ms

# Below is generated by plot.py at 2019-07-12 02:00:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 287.01 Mbit/s
95th percentile per-packet one-way delay: 195.477 ms
Loss rate: 3.28%
-- Flow 1:
Average throughput: 287.01 Mbit/s
95th percentile per-packet one-way delay: 195.477 ms
Loss rate: 3.28%
```

Run 4: Report of PCC-Expr — Data Link

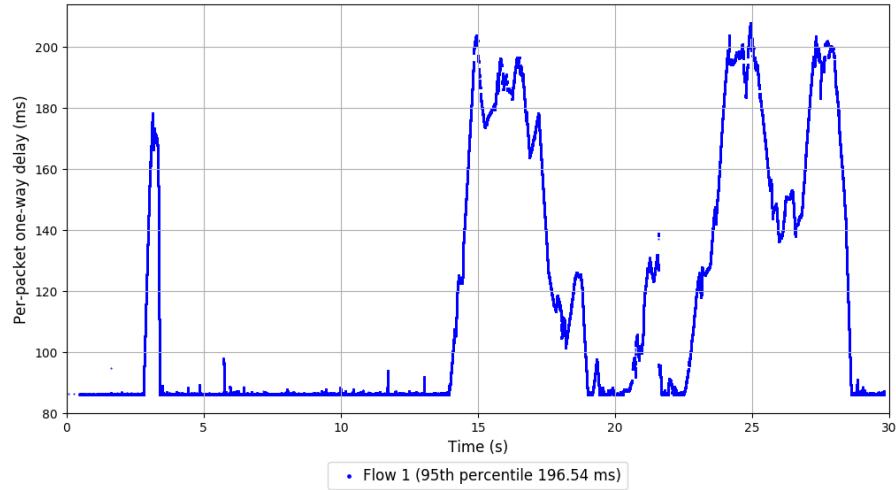
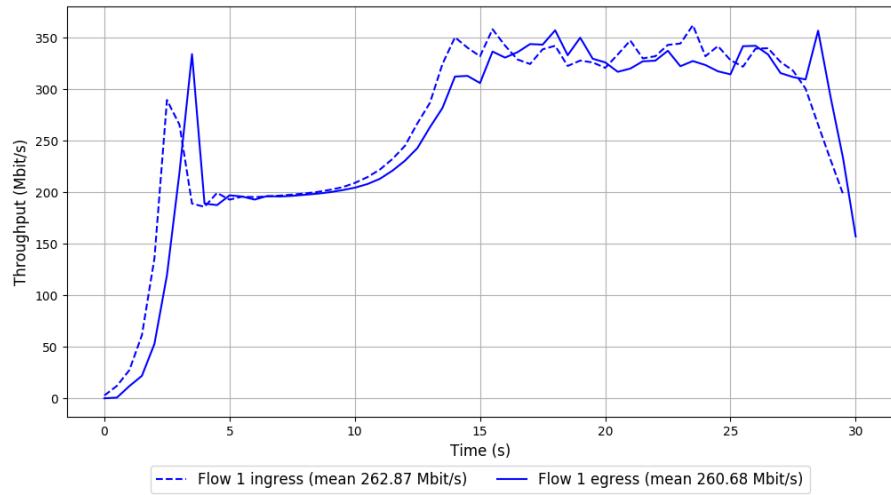


Run 5: Statistics of PCC-Expr

```
Start at: 2019-07-11 23:55:35
End at: 2019-07-11 23:56:05
Local clock offset: 0.351 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 260.68 Mbit/s
95th percentile per-packet one-way delay: 196.545 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 260.68 Mbit/s
95th percentile per-packet one-way delay: 196.545 ms
Loss rate: 1.41%
```

Run 5: Report of PCC-Expr — Data Link

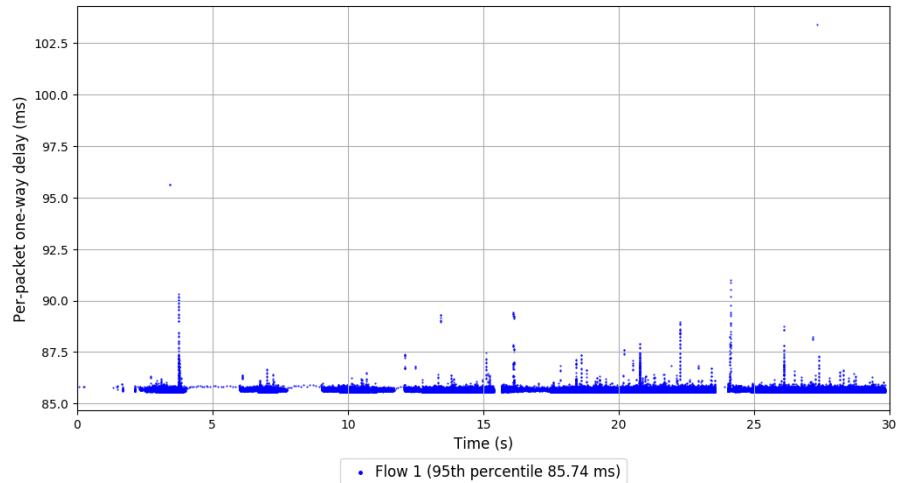
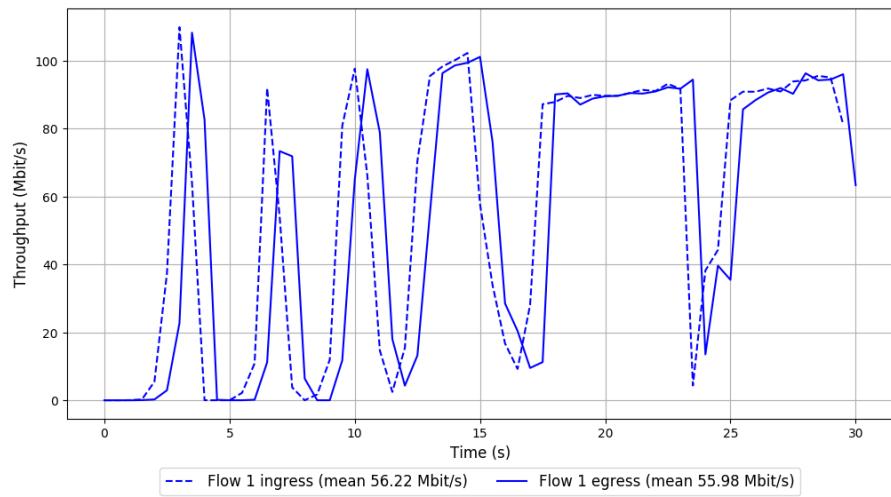


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-07-11 21:41:14
End at: 2019-07-11 21:41:44
Local clock offset: 0.695 ms
Remote clock offset: 0.878 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.98 Mbit/s
95th percentile per-packet one-way delay: 85.738 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 55.98 Mbit/s
95th percentile per-packet one-way delay: 85.738 ms
Loss rate: 0.99%
```

Run 1: Report of QUIC Cubic — Data Link

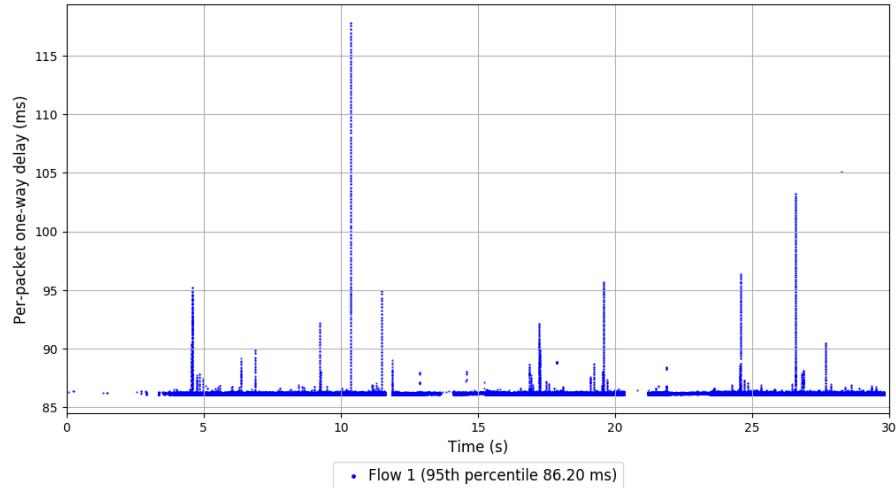
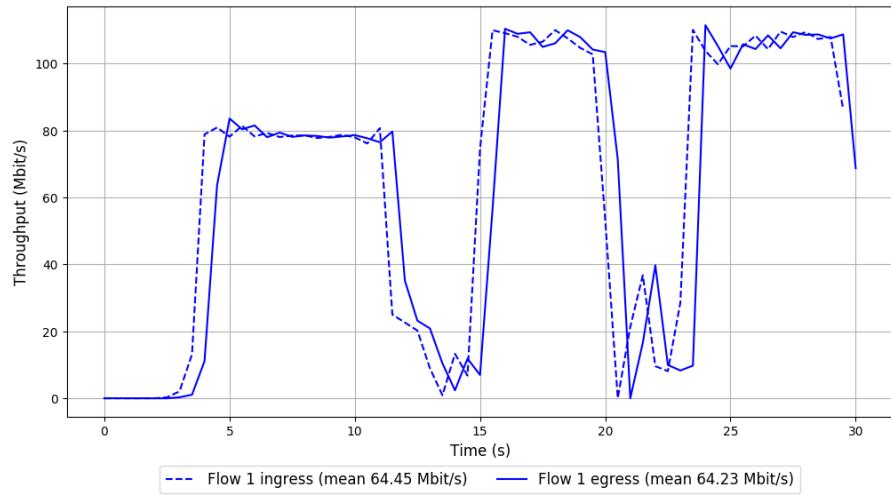


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-07-11 22:16:46
End at: 2019-07-11 22:17:16
Local clock offset: 0.279 ms
Remote clock offset: 0.466 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.23 Mbit/s
95th percentile per-packet one-way delay: 86.202 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 64.23 Mbit/s
95th percentile per-packet one-way delay: 86.202 ms
Loss rate: 0.92%
```

Run 2: Report of QUIC Cubic — Data Link

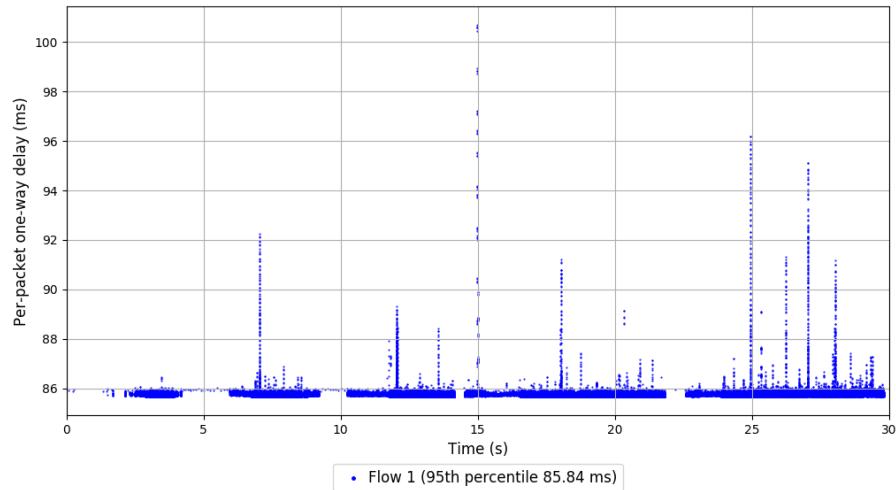
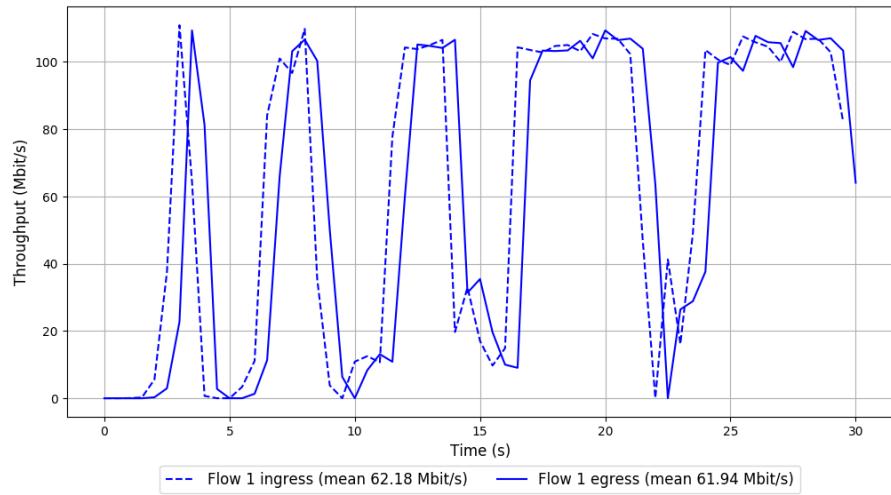


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-07-11 22:52:18
End at: 2019-07-11 22:52:48
Local clock offset: 0.054 ms
Remote clock offset: 0.184 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.94 Mbit/s
95th percentile per-packet one-way delay: 85.844 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 61.94 Mbit/s
95th percentile per-packet one-way delay: 85.844 ms
Loss rate: 0.97%
```

Run 3: Report of QUIC Cubic — Data Link

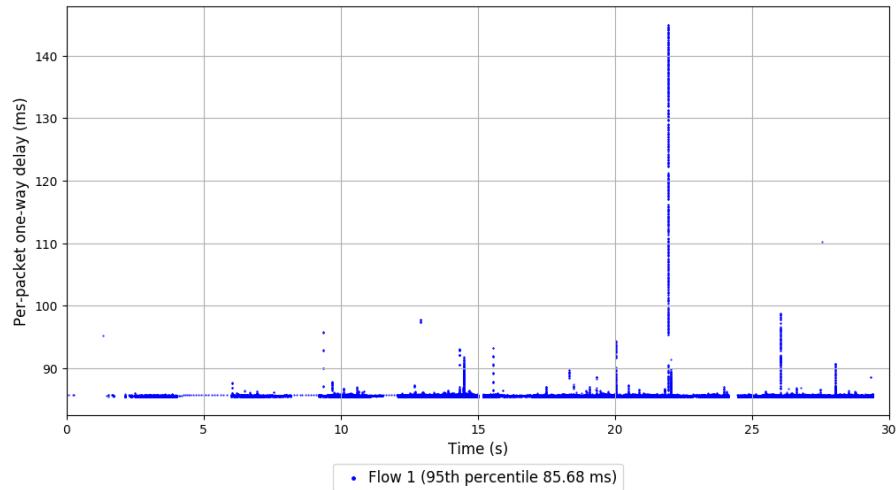
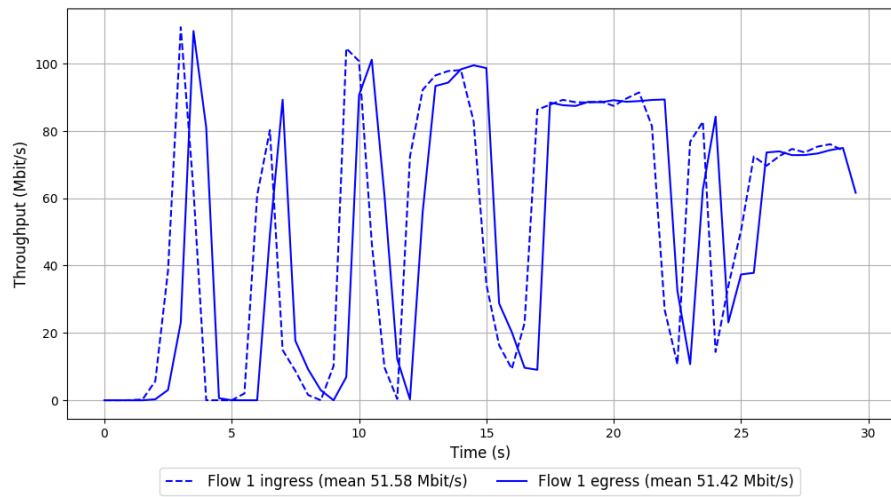


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-07-11 23:27:34
End at: 2019-07-11 23:28:04
Local clock offset: -0.219 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.42 Mbit/s
95th percentile per-packet one-way delay: 85.681 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 51.42 Mbit/s
95th percentile per-packet one-way delay: 85.681 ms
Loss rate: 0.89%
```

Run 4: Report of QUIC Cubic — Data Link

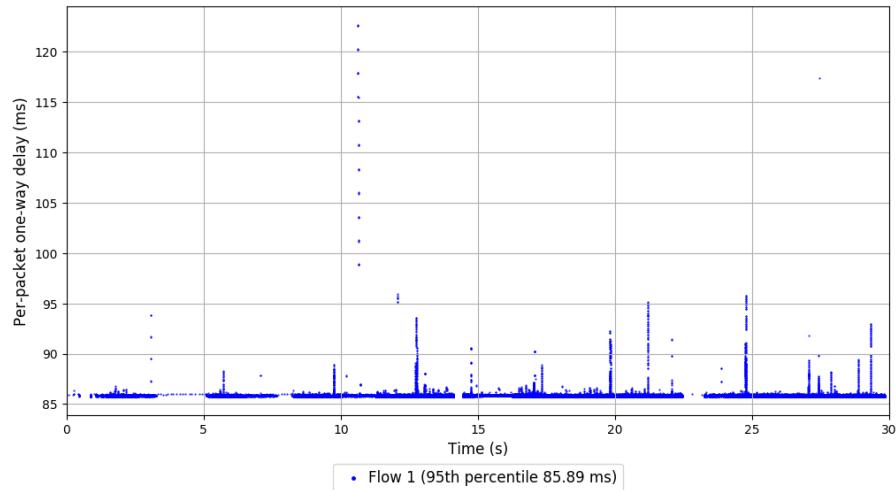
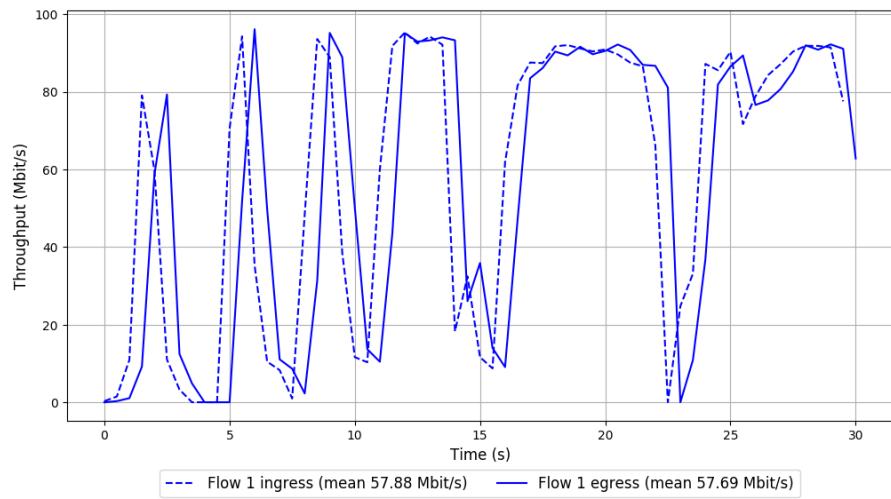


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-07-12 00:03:16
End at: 2019-07-12 00:03:46
Local clock offset: -0.015 ms
Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.69 Mbit/s
95th percentile per-packet one-way delay: 85.892 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 57.69 Mbit/s
95th percentile per-packet one-way delay: 85.892 ms
Loss rate: 0.90%
```

Run 5: Report of QUIC Cubic — Data Link

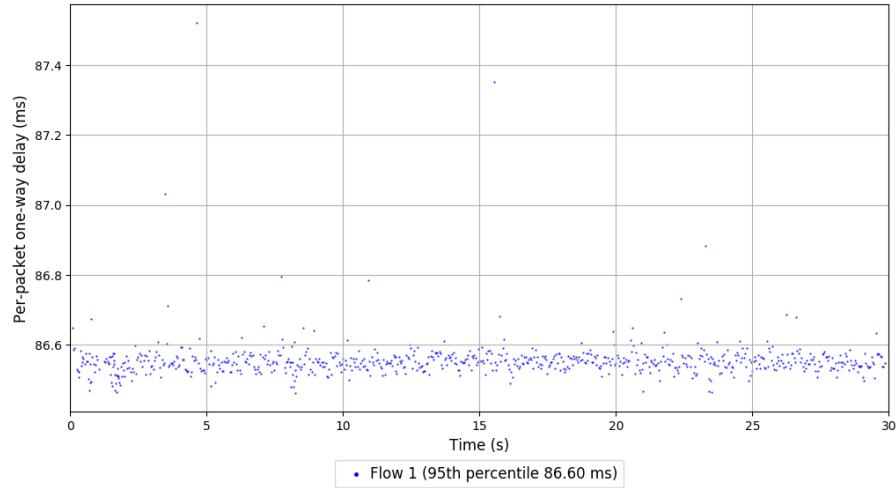
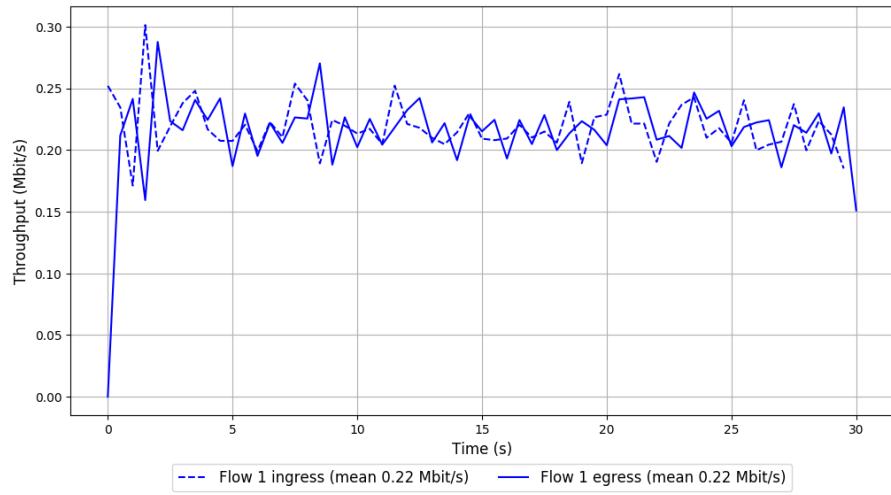


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-07-11 21:42:27
End at: 2019-07-11 21:42:57
Local clock offset: 1.352 ms
Remote clock offset: 0.902 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.601 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.601 ms
Loss rate: 0.51%
```

Run 1: Report of SCReAM — Data Link

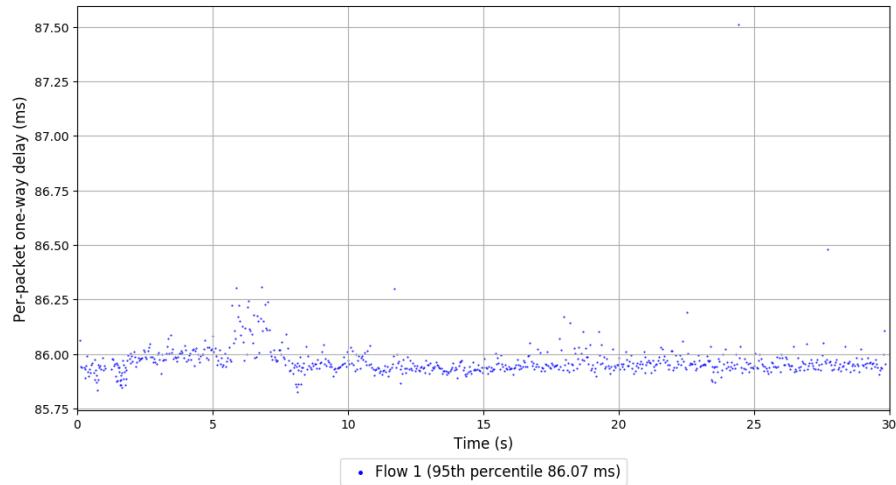
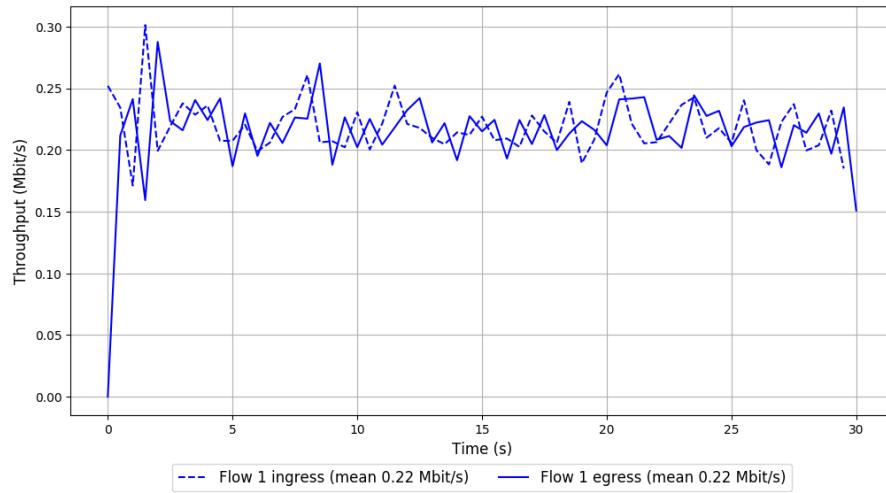


Run 2: Statistics of SCReAM

```
Start at: 2019-07-11 22:17:59
End at: 2019-07-11 22:18:29
Local clock offset: 0.225 ms
Remote clock offset: 0.464 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.071 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.071 ms
Loss rate: 0.51%
```

Run 2: Report of SCReAM — Data Link

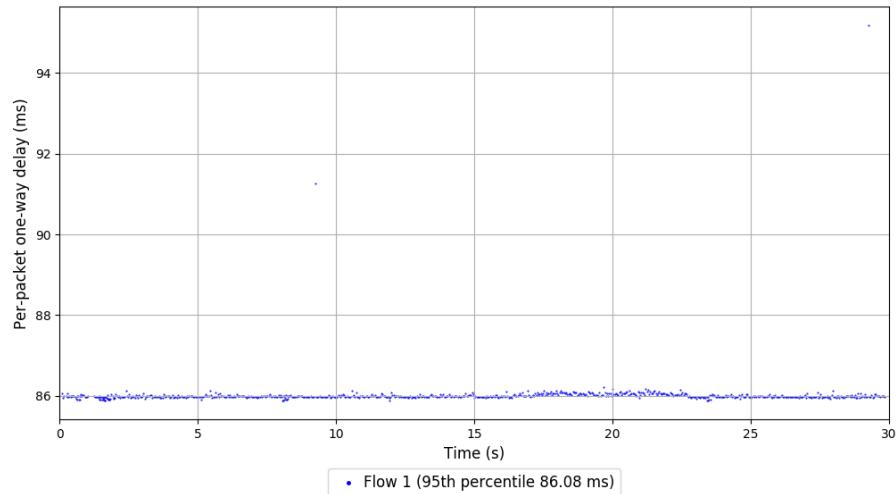
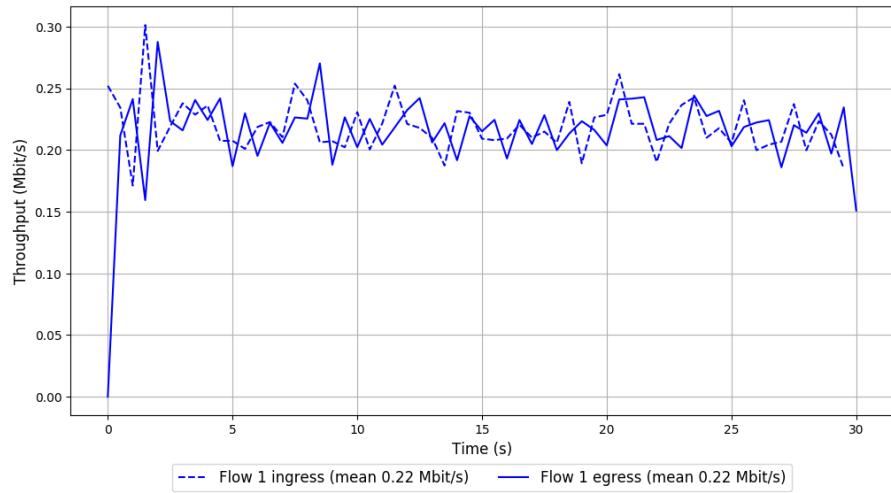


Run 3: Statistics of SCReAM

```
Start at: 2019-07-11 22:53:31
End at: 2019-07-11 22:54:01
Local clock offset: 0.089 ms
Remote clock offset: 0.181 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.082 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.082 ms
Loss rate: 0.51%
```

Run 3: Report of SCReAM — Data Link

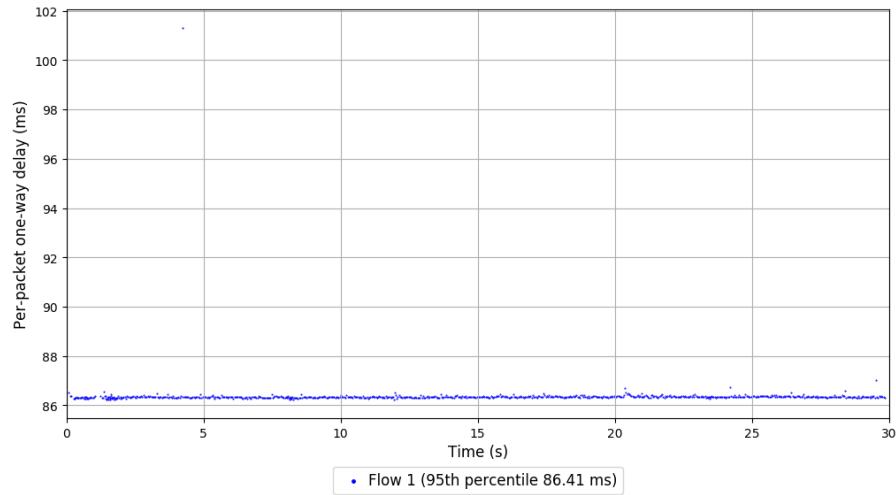
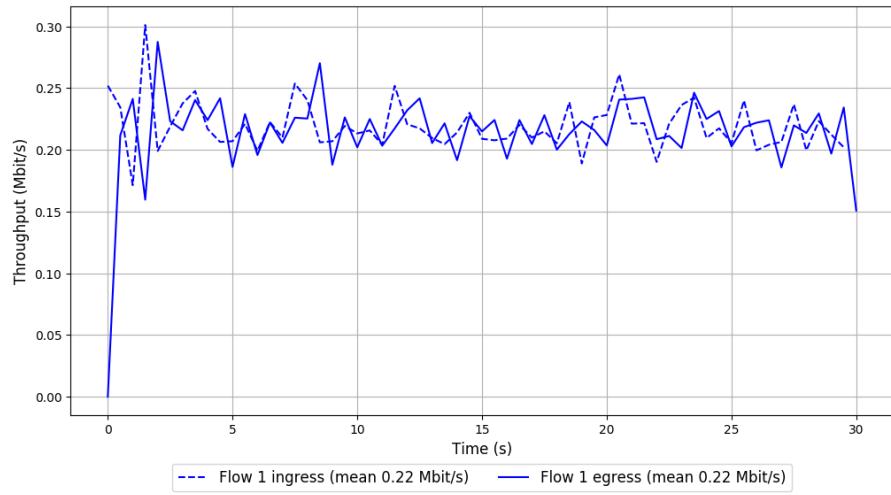


Run 4: Statistics of SCReAM

```
Start at: 2019-07-11 23:28:46
End at: 2019-07-11 23:29:16
Local clock offset: 0.057 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.412 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.412 ms
Loss rate: 0.64%
```

Run 4: Report of SCReAM — Data Link

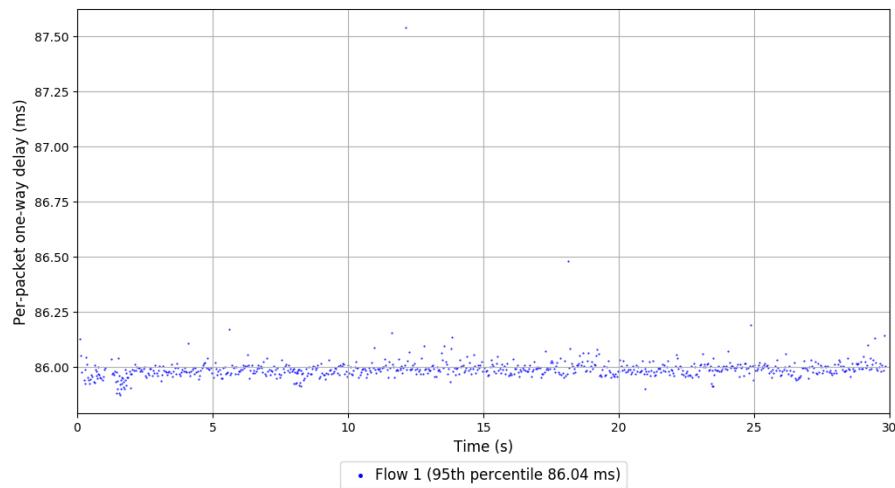
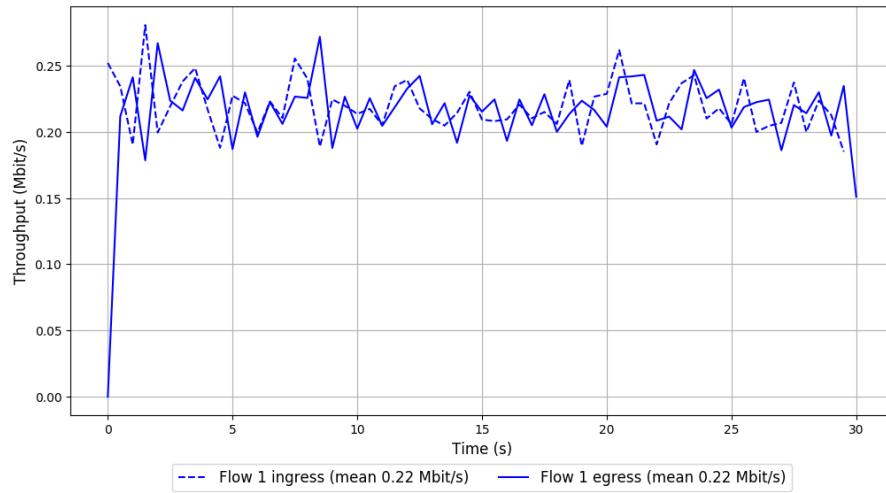


Run 5: Statistics of SCReAM

```
Start at: 2019-07-12 00:04:28
End at: 2019-07-12 00:04:58
Local clock offset: -0.094 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.041 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.041 ms
Loss rate: 0.51%
```

Run 5: Report of SCReAM — Data Link

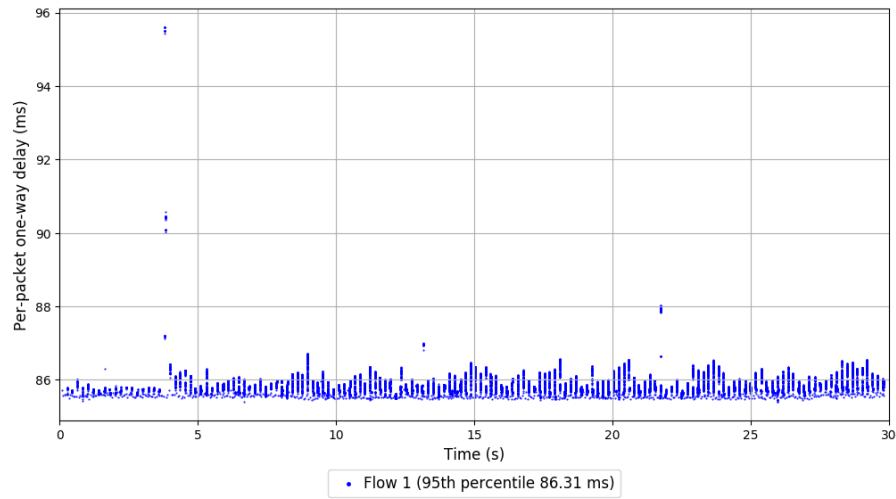
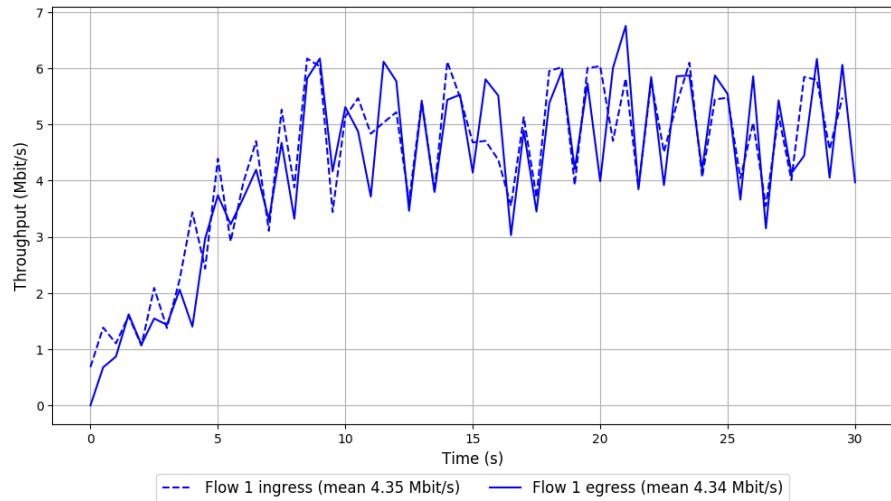


Run 1: Statistics of Sprout

```
Start at: 2019-07-11 21:43:36
End at: 2019-07-11 21:44:06
Local clock offset: 0.461 ms
Remote clock offset: 0.919 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 86.309 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 86.309 ms
Loss rate: 0.78%
```

Run 1: Report of Sprout — Data Link

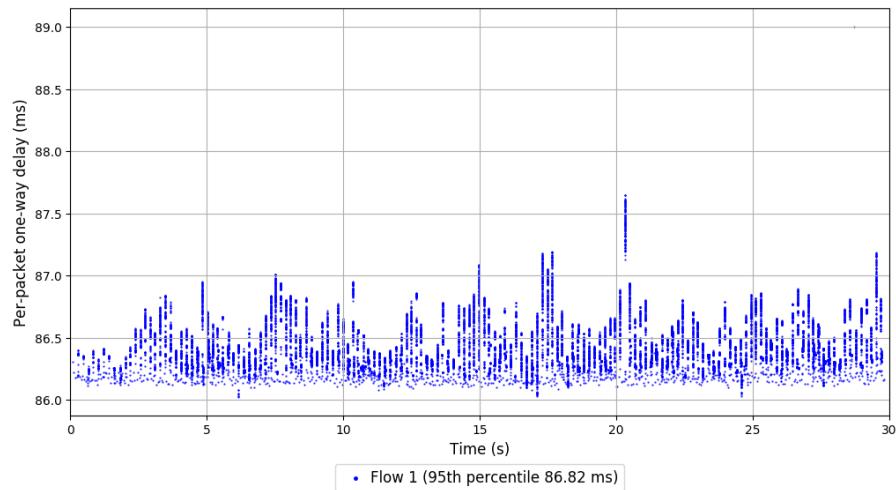
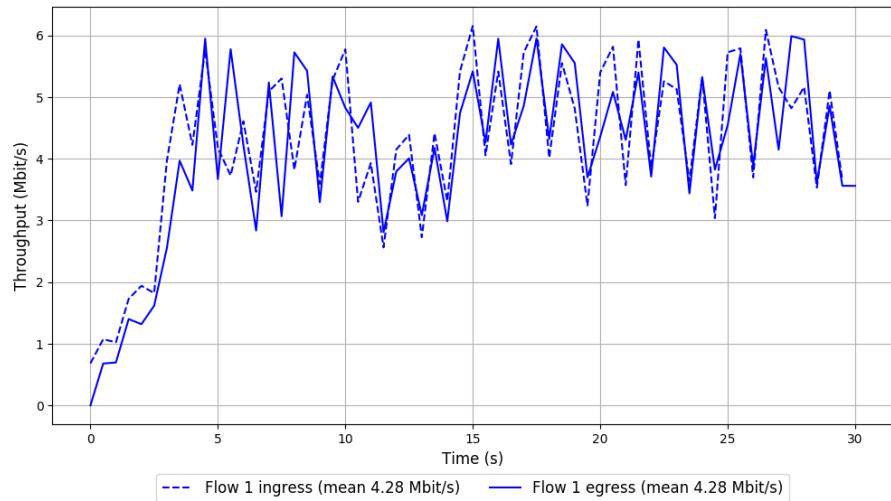


Run 2: Statistics of Sprout

```
Start at: 2019-07-11 22:19:08
End at: 2019-07-11 22:19:38
Local clock offset: 0.551 ms
Remote clock offset: 0.485 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 86.818 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 86.818 ms
Loss rate: 0.73%
```

Run 2: Report of Sprout — Data Link

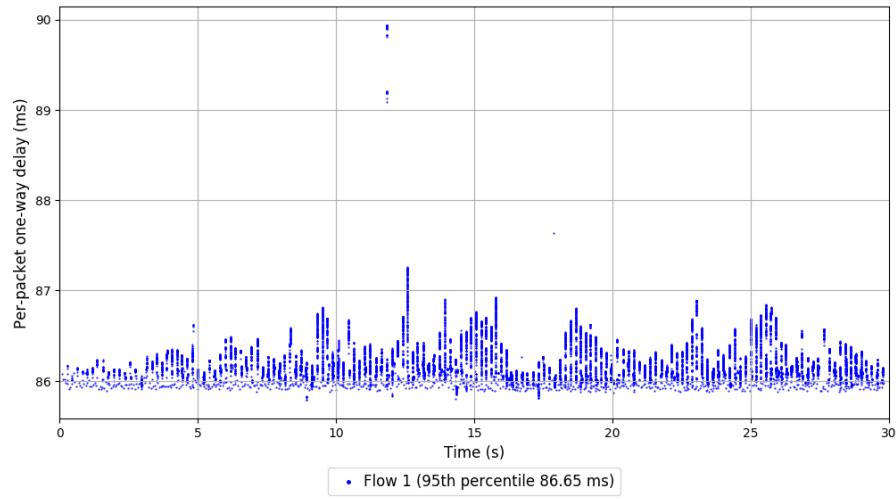
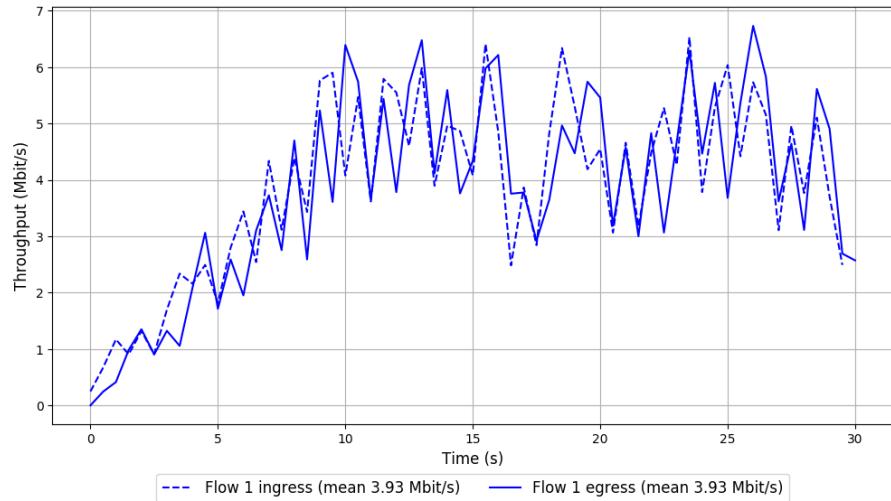


Run 3: Statistics of Sprout

```
Start at: 2019-07-11 22:54:41
End at: 2019-07-11 22:55:11
Local clock offset: 0.104 ms
Remote clock offset: 0.163 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 86.647 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 86.647 ms
Loss rate: 0.48%
```

Run 3: Report of Sprout — Data Link

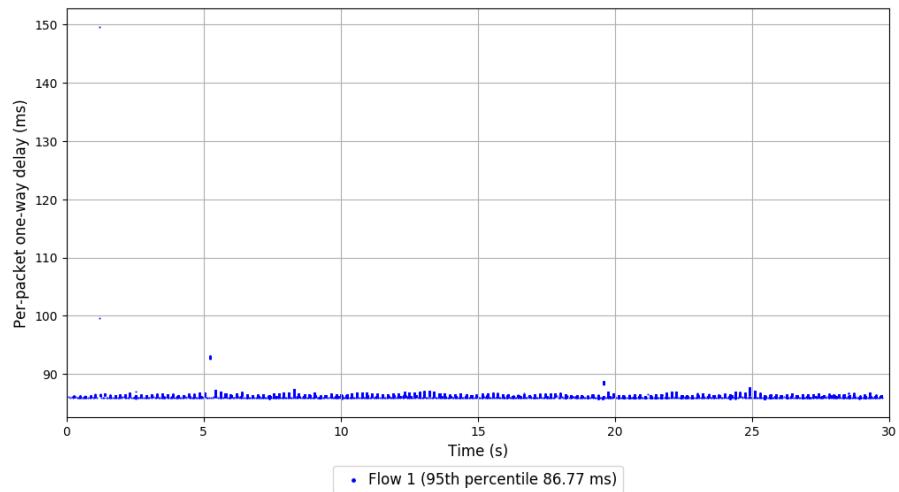
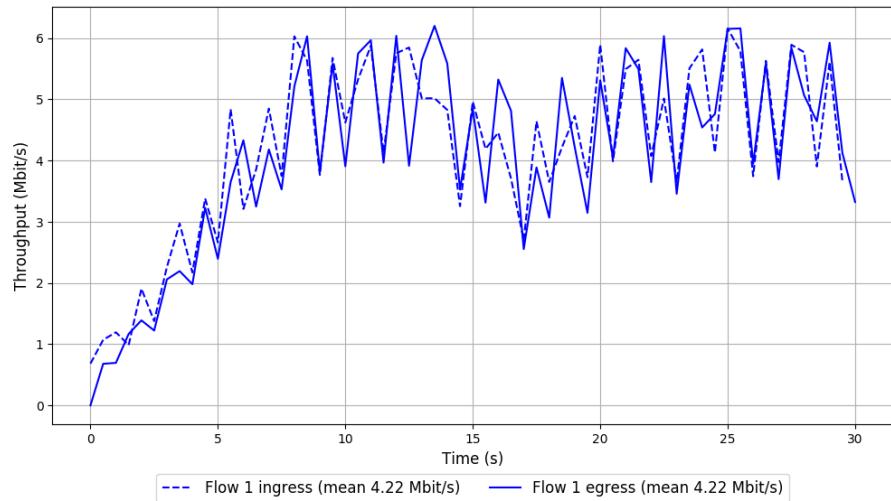


Run 4: Statistics of Sprout

```
Start at: 2019-07-11 23:29:55
End at: 2019-07-11 23:30:25
Local clock offset: 0.071 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 86.771 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 86.771 ms
Loss rate: 0.73%
```

Run 4: Report of Sprout — Data Link

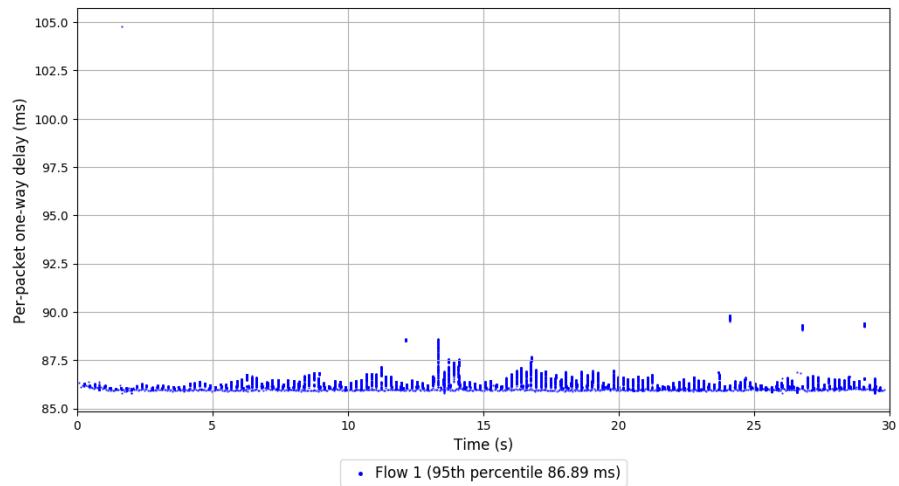
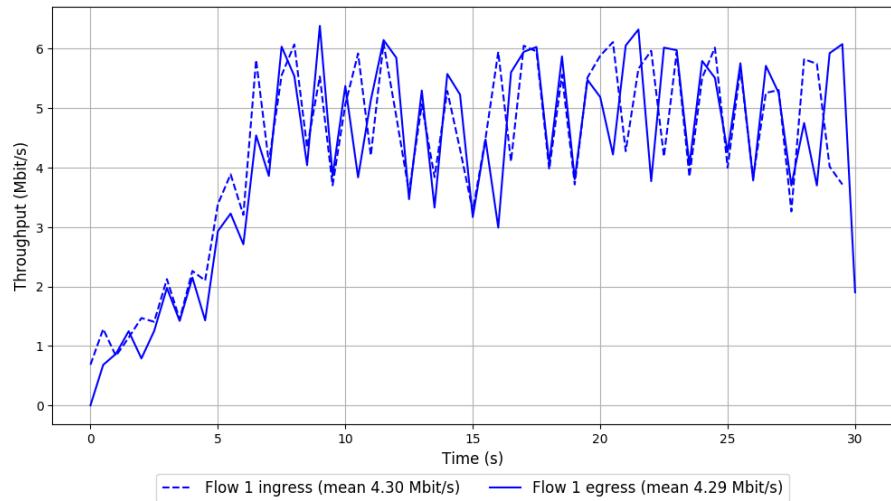


Run 5: Statistics of Sprout

```
Start at: 2019-07-12 00:05:37
End at: 2019-07-12 00:06:07
Local clock offset: -0.039 ms
Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2019-07-12 02:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 86.895 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 86.895 ms
Loss rate: 0.71%
```

Run 5: Report of Sprout — Data Link

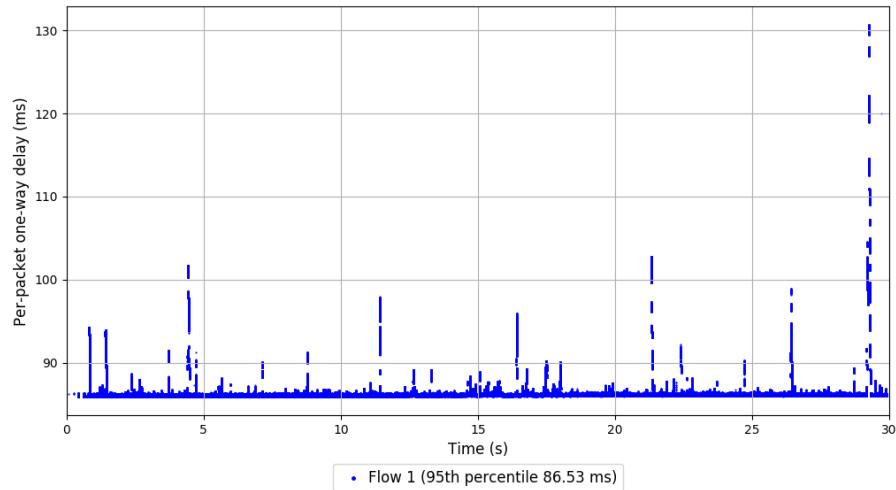
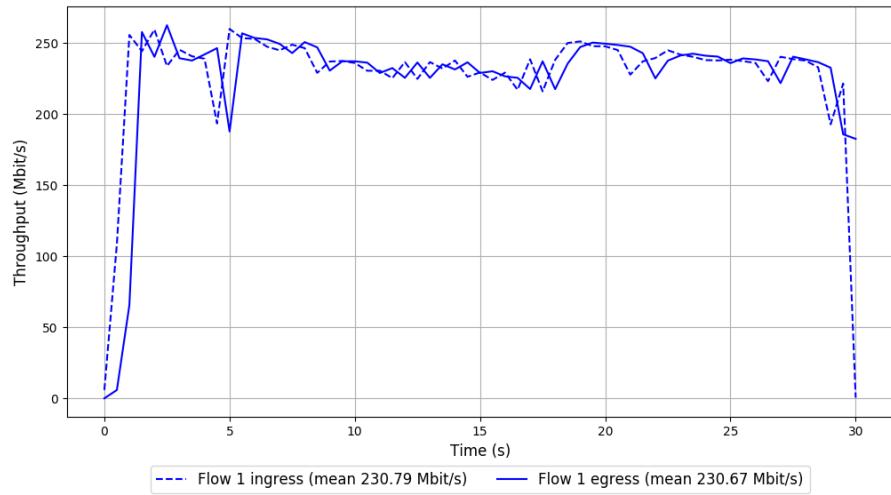


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-07-11 21:21:04
End at: 2019-07-11 21:21:34
Local clock offset: 3.727 ms
Remote clock offset: 2.139 ms

# Below is generated by plot.py at 2019-07-12 02:06:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.67 Mbit/s
95th percentile per-packet one-way delay: 86.531 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 230.67 Mbit/s
95th percentile per-packet one-way delay: 86.531 ms
Loss rate: 0.63%
```

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

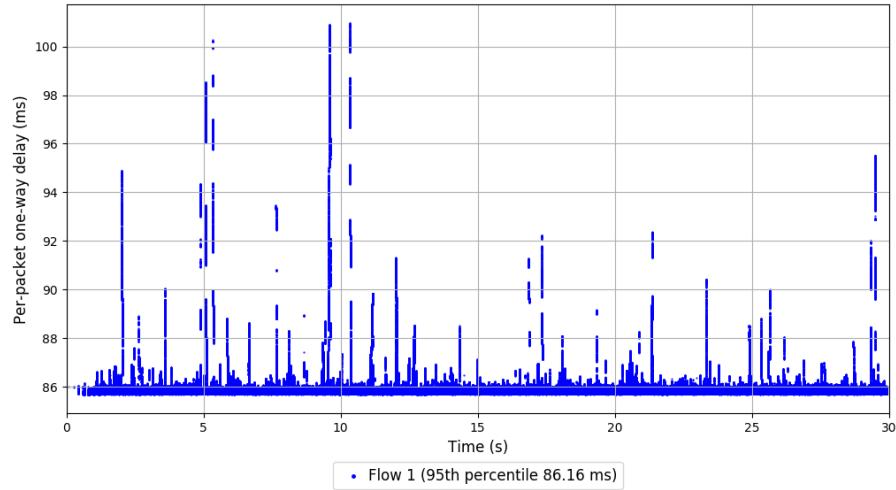
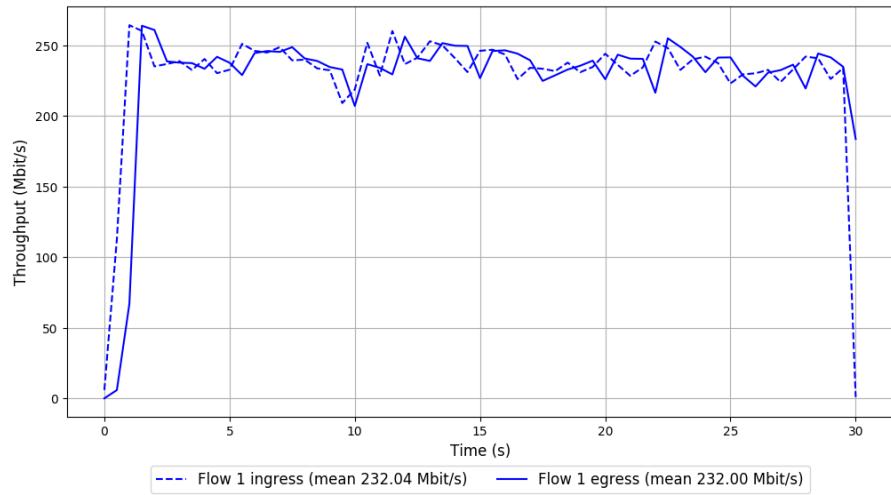


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-07-11 21:56:51
End at: 2019-07-11 21:57:21
Local clock offset: 0.324 ms
Remote clock offset: 0.863 ms

# Below is generated by plot.py at 2019-07-12 02:06:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.00 Mbit/s
95th percentile per-packet one-way delay: 86.163 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 232.00 Mbit/s
95th percentile per-packet one-way delay: 86.163 ms
Loss rate: 0.59%
```

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

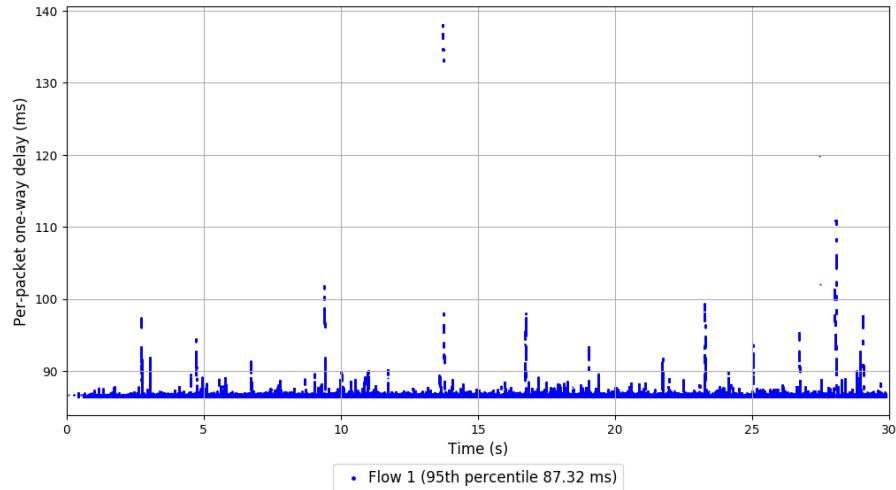
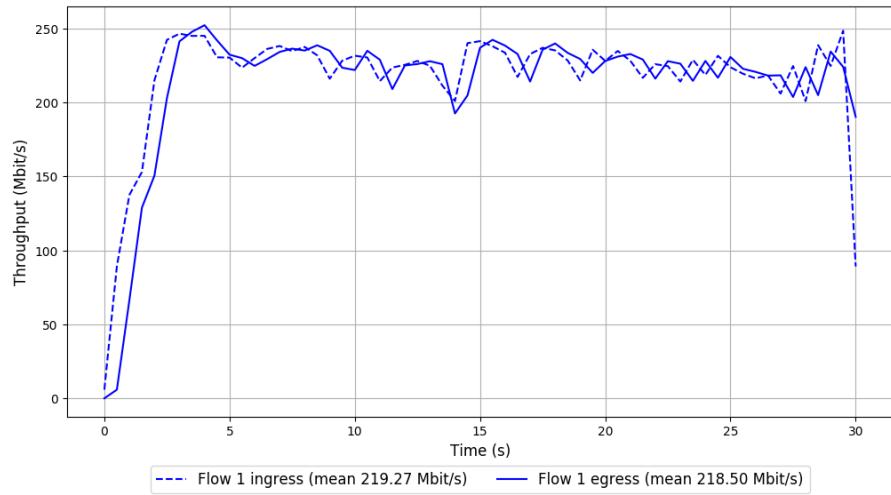


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-07-11 22:32:24
End at: 2019-07-11 22:32:54
Local clock offset: 0.612 ms
Remote clock offset: 0.36 ms

# Below is generated by plot.py at 2019-07-12 02:06:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.50 Mbit/s
95th percentile per-packet one-way delay: 87.321 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 218.50 Mbit/s
95th percentile per-packet one-way delay: 87.321 ms
Loss rate: 1.54%
```

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

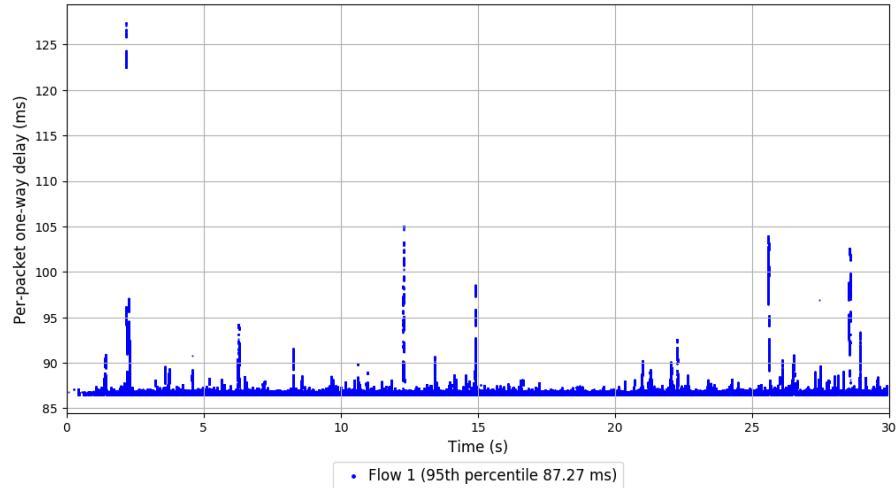
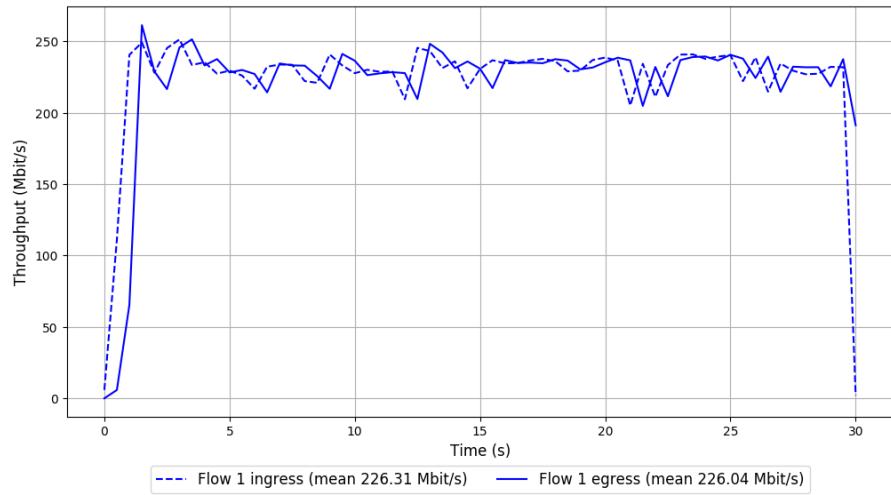


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-07-11 23:07:54
End at: 2019-07-11 23:08:24
Local clock offset: 0.508 ms
Remote clock offset: 0.109 ms

# Below is generated by plot.py at 2019-07-12 02:06:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.04 Mbit/s
95th percentile per-packet one-way delay: 87.273 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 226.04 Mbit/s
95th percentile per-packet one-way delay: 87.273 ms
Loss rate: 0.70%
```

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

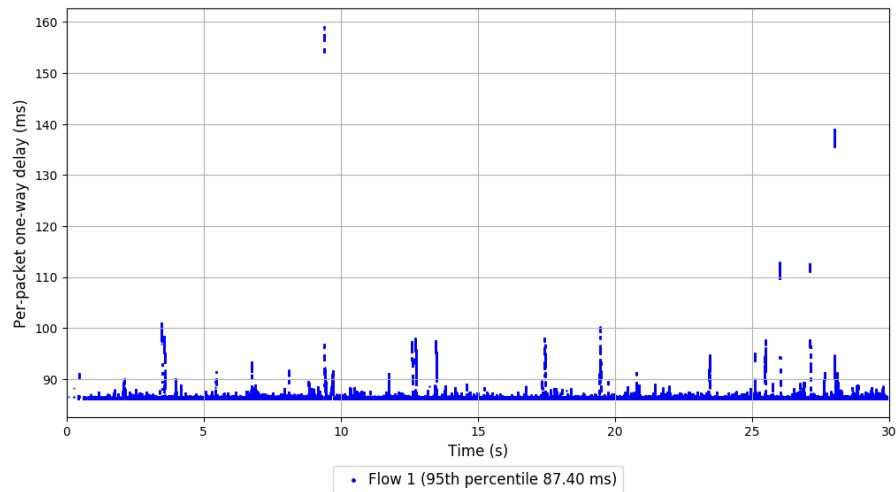
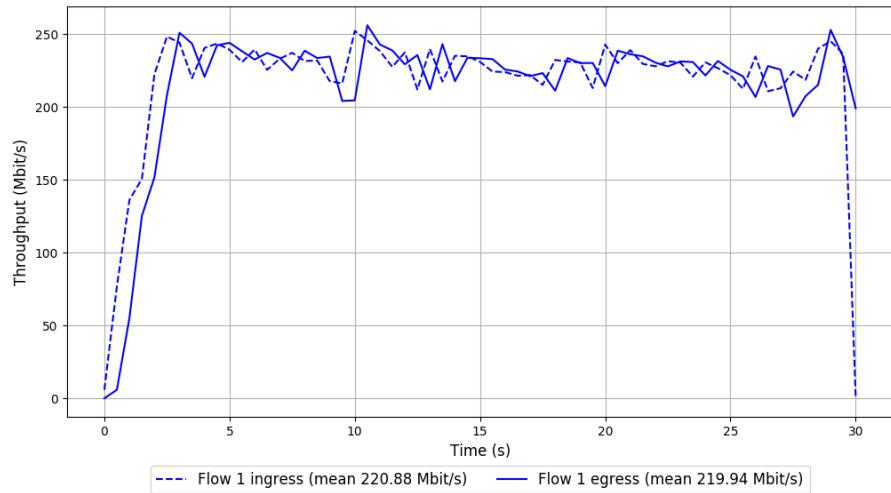


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-07-11 23:43:17
End at: 2019-07-11 23:43:47
Local clock offset: 0.332 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-07-12 02:07:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.94 Mbit/s
95th percentile per-packet one-way delay: 87.400 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 219.94 Mbit/s
95th percentile per-packet one-way delay: 87.400 ms
Loss rate: 1.00%
```

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

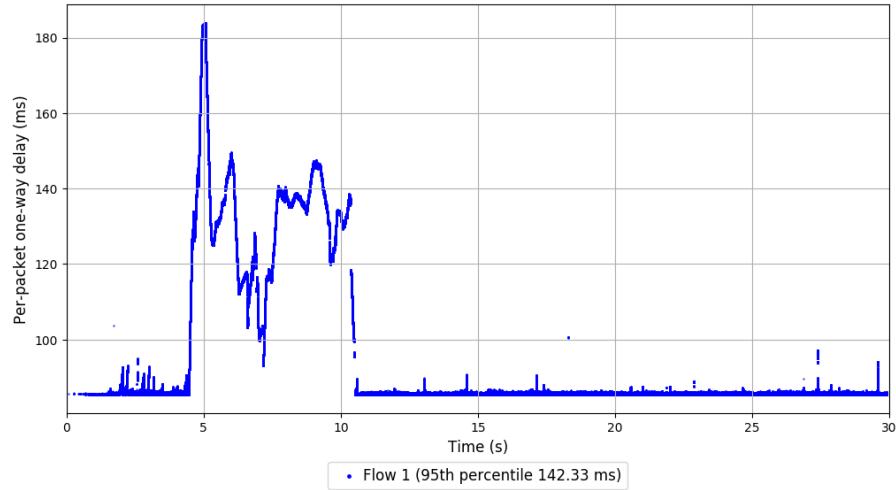
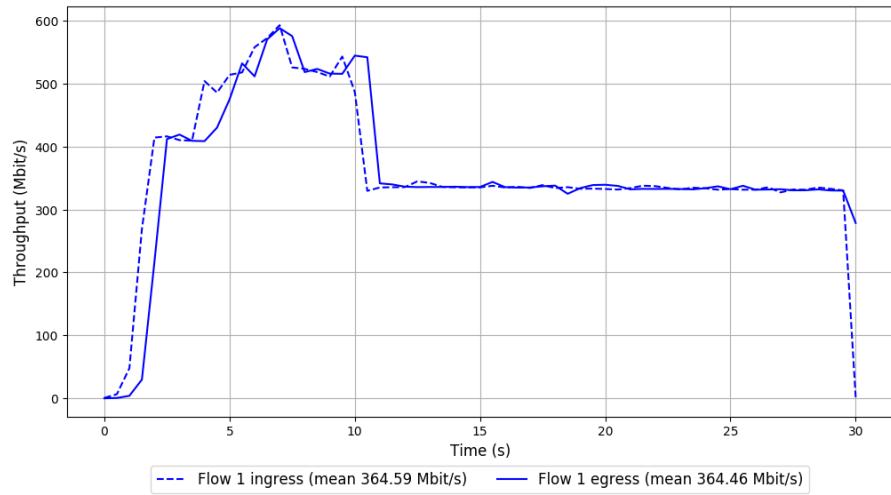


Run 1: Statistics of TCP Vegas

```
Start at: 2019-07-11 21:25:46
End at: 2019-07-11 21:26:16
Local clock offset: 1.841 ms
Remote clock offset: 1.413 ms

# Below is generated by plot.py at 2019-07-12 02:07:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.46 Mbit/s
95th percentile per-packet one-way delay: 142.327 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 364.46 Mbit/s
95th percentile per-packet one-way delay: 142.327 ms
Loss rate: 0.61%
```

Run 1: Report of TCP Vegas — Data Link

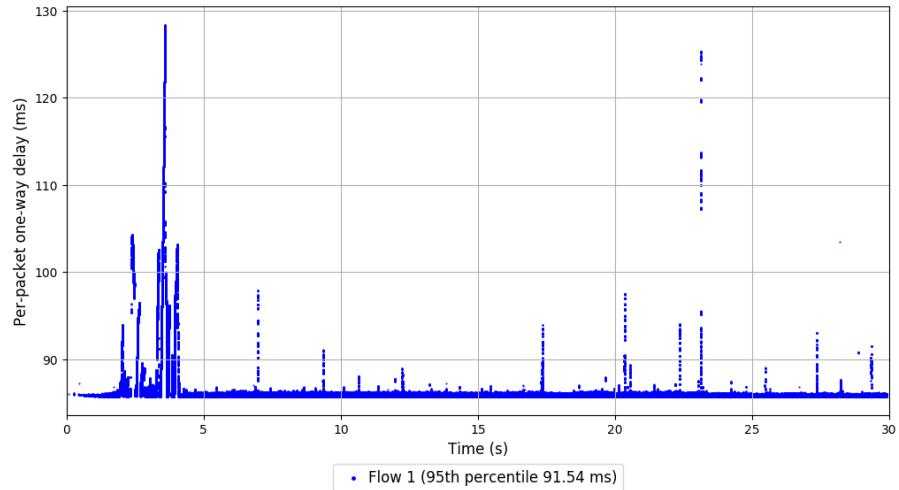
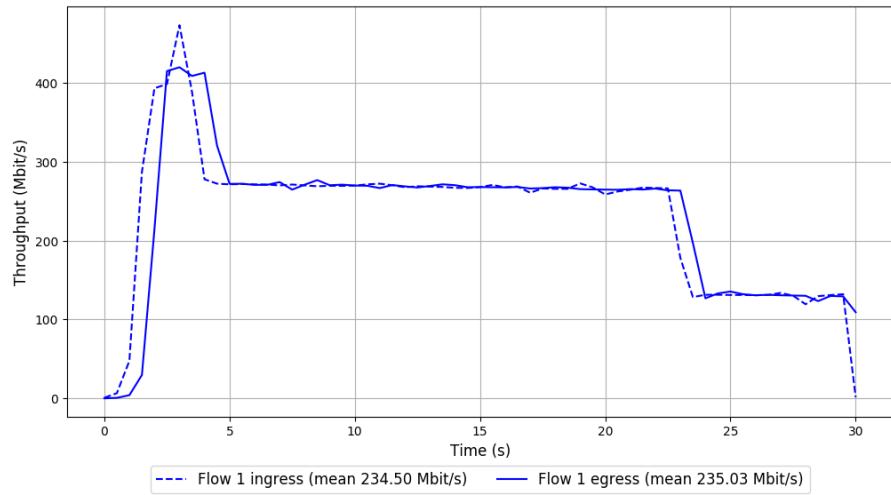


Run 2: Statistics of TCP Vegas

```
Start at: 2019-07-11 22:01:33
End at: 2019-07-11 22:02:03
Local clock offset: 0.417 ms
Remote clock offset: 0.567 ms

# Below is generated by plot.py at 2019-07-12 02:07:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 235.03 Mbit/s
95th percentile per-packet one-way delay: 91.536 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 235.03 Mbit/s
95th percentile per-packet one-way delay: 91.536 ms
Loss rate: 0.35%
```

Run 2: Report of TCP Vegas — Data Link

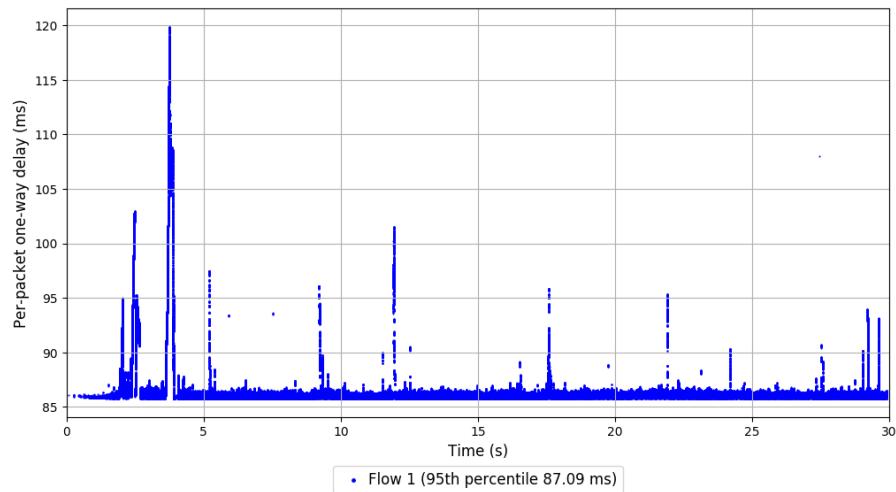
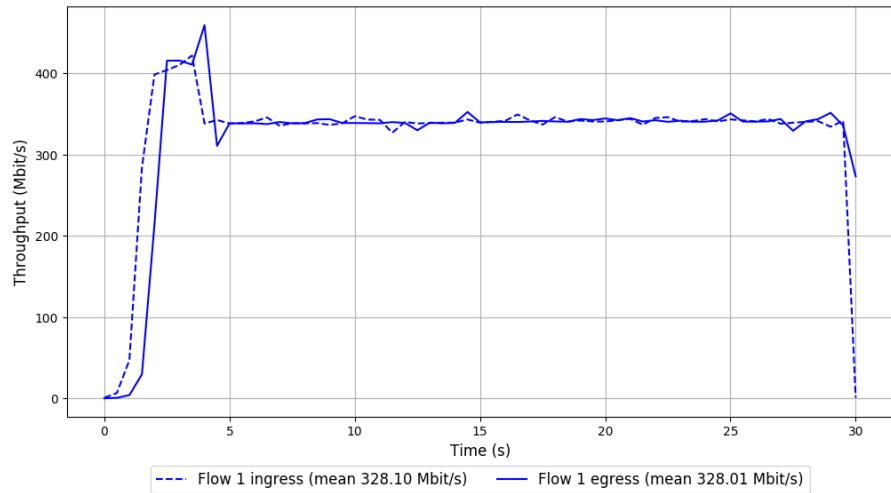


Run 3: Statistics of TCP Vegas

```
Start at: 2019-07-11 22:36:51
End at: 2019-07-11 22:37:21
Local clock offset: 0.155 ms
Remote clock offset: 0.262 ms

# Below is generated by plot.py at 2019-07-12 02:07:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.01 Mbit/s
95th percentile per-packet one-way delay: 87.092 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 328.01 Mbit/s
95th percentile per-packet one-way delay: 87.092 ms
Loss rate: 0.60%
```

Run 3: Report of TCP Vegas — Data Link

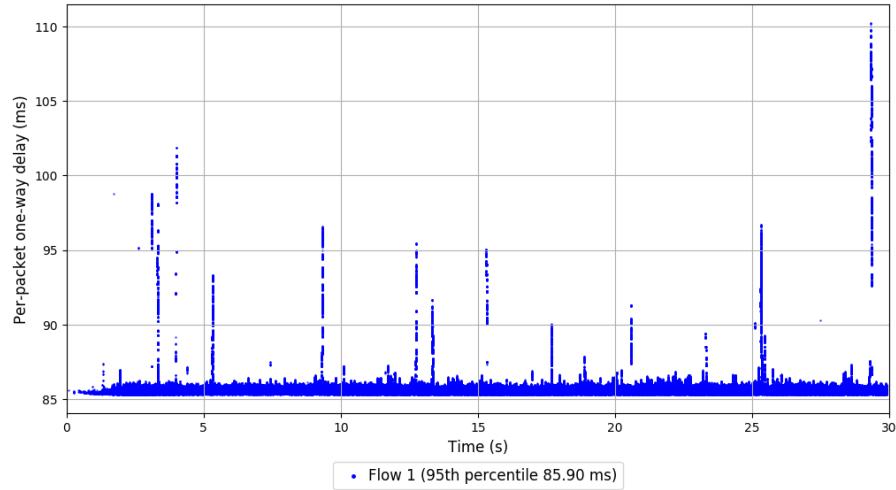
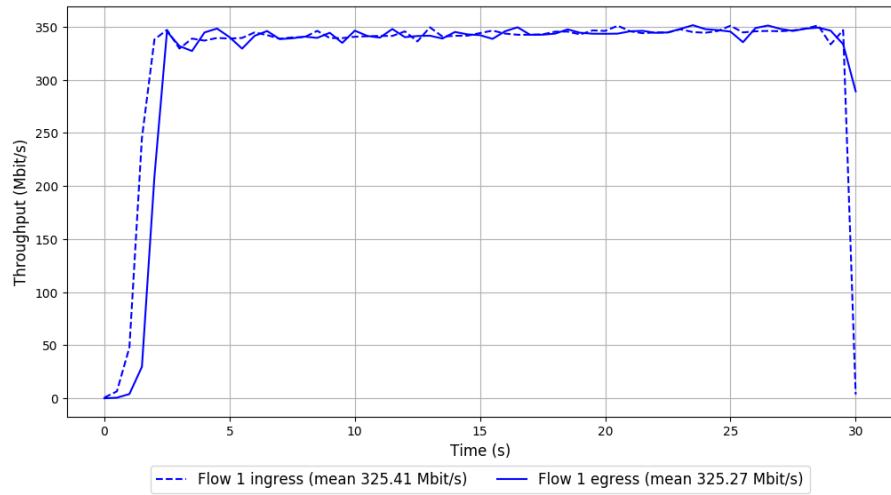


Run 4: Statistics of TCP Vegas

```
Start at: 2019-07-11 23:12:21
End at: 2019-07-11 23:12:51
Local clock offset: -0.387 ms
Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2019-07-12 02:11:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.27 Mbit/s
95th percentile per-packet one-way delay: 85.900 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 325.27 Mbit/s
95th percentile per-packet one-way delay: 85.900 ms
Loss rate: 0.62%
```

Run 4: Report of TCP Vegas — Data Link

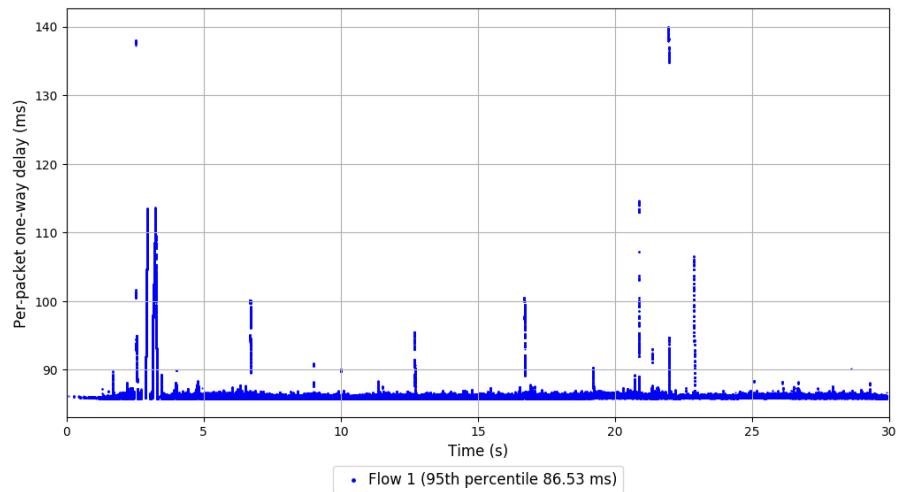
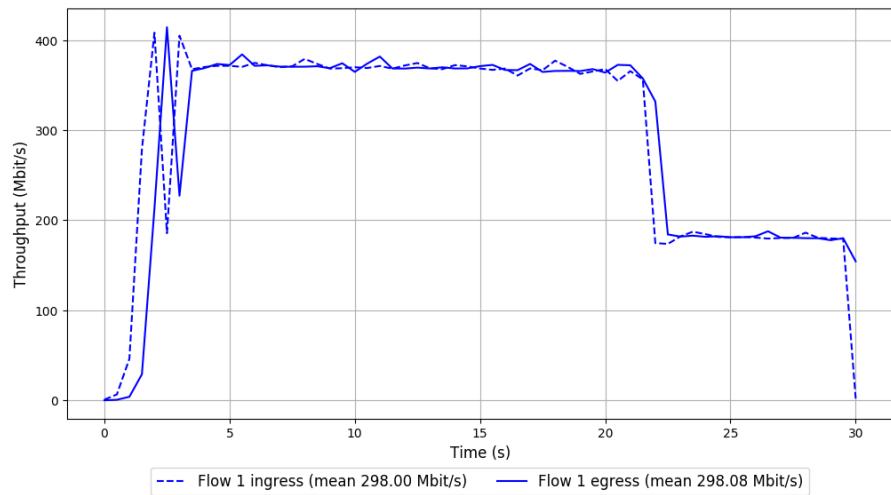


Run 5: Statistics of TCP Vegas

```
Start at: 2019-07-11 23:47:54
End at: 2019-07-11 23:48:24
Local clock offset: -0.282 ms
Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-07-12 02:11:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 298.08 Mbit/s
95th percentile per-packet one-way delay: 86.529 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 298.08 Mbit/s
95th percentile per-packet one-way delay: 86.529 ms
Loss rate: 0.55%
```

Run 5: Report of TCP Vegas — Data Link

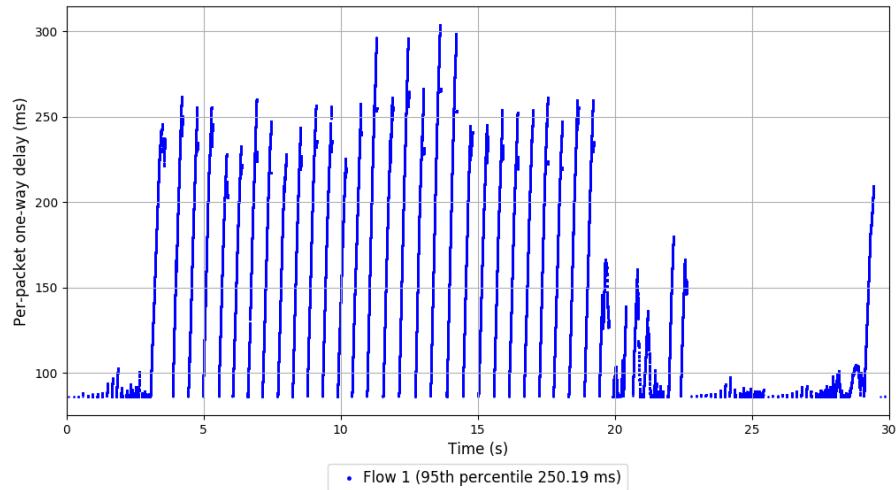
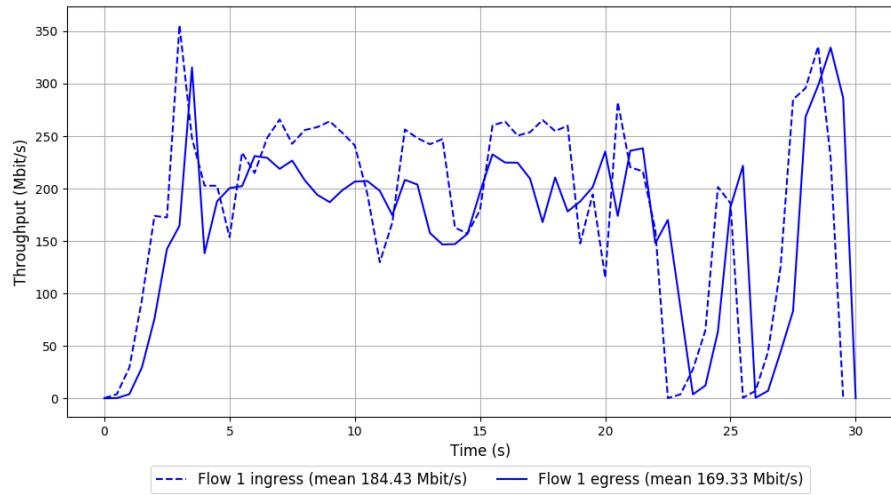


Run 1: Statistics of Verus

```
Start at: 2019-07-11 21:35:04
End at: 2019-07-11 21:35:34
Local clock offset: 1.269 ms
Remote clock offset: 0.88 ms

# Below is generated by plot.py at 2019-07-12 02:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.33 Mbit/s
95th percentile per-packet one-way delay: 250.194 ms
Loss rate: 8.72%
-- Flow 1:
Average throughput: 169.33 Mbit/s
95th percentile per-packet one-way delay: 250.194 ms
Loss rate: 8.72%
```

Run 1: Report of Verus — Data Link

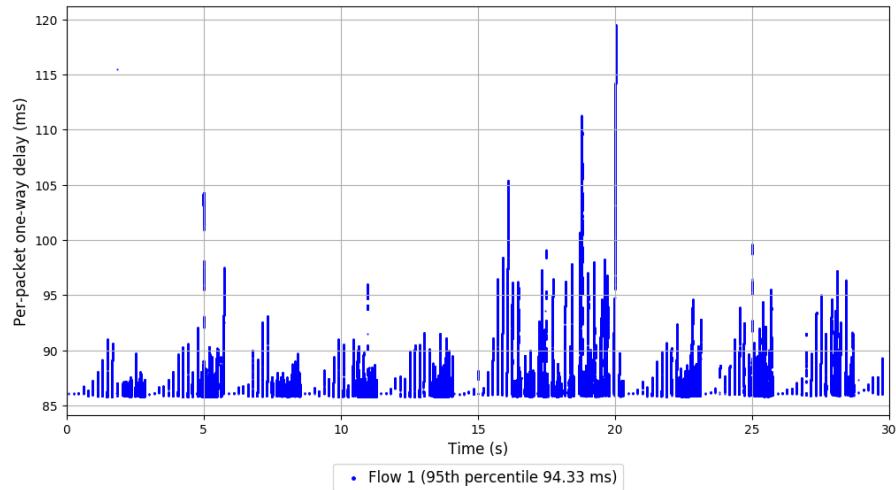
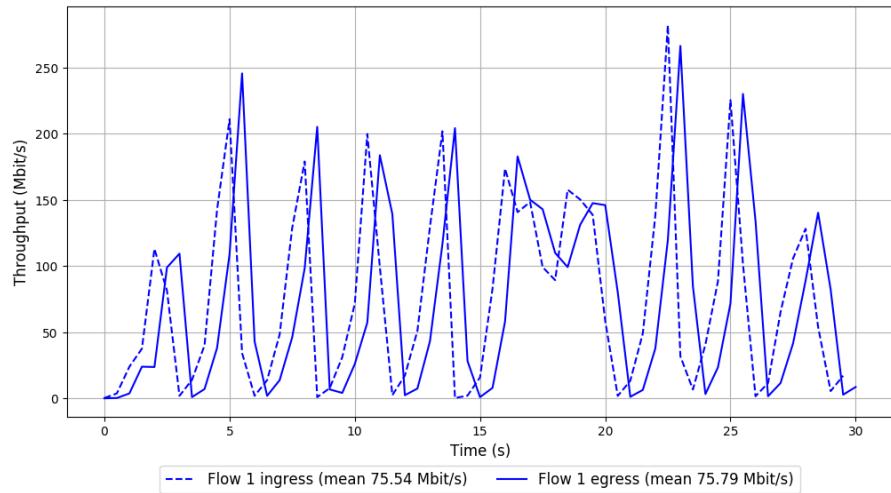


Run 2: Statistics of Verus

```
Start at: 2019-07-11 22:10:45
End at: 2019-07-11 22:11:15
Local clock offset: 0.354 ms
Remote clock offset: 0.449 ms

# Below is generated by plot.py at 2019-07-12 02:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.79 Mbit/s
95th percentile per-packet one-way delay: 94.325 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 75.79 Mbit/s
95th percentile per-packet one-way delay: 94.325 ms
Loss rate: 0.25%
```

Run 2: Report of Verus — Data Link

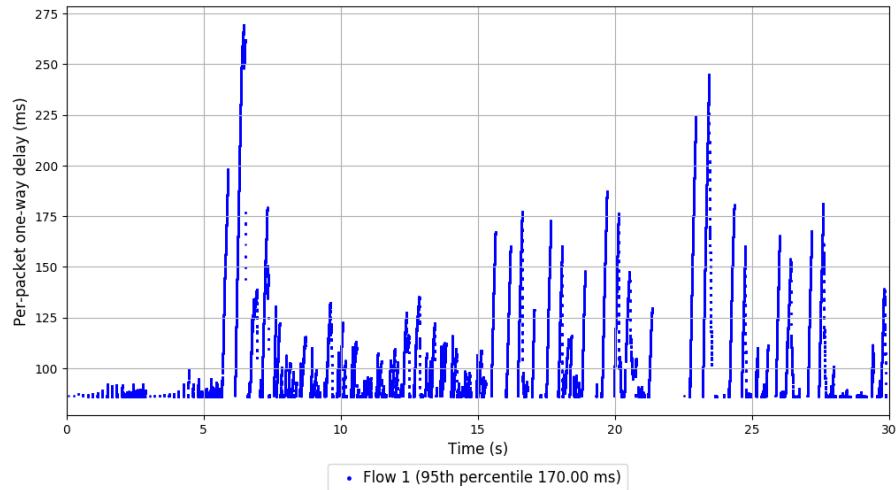
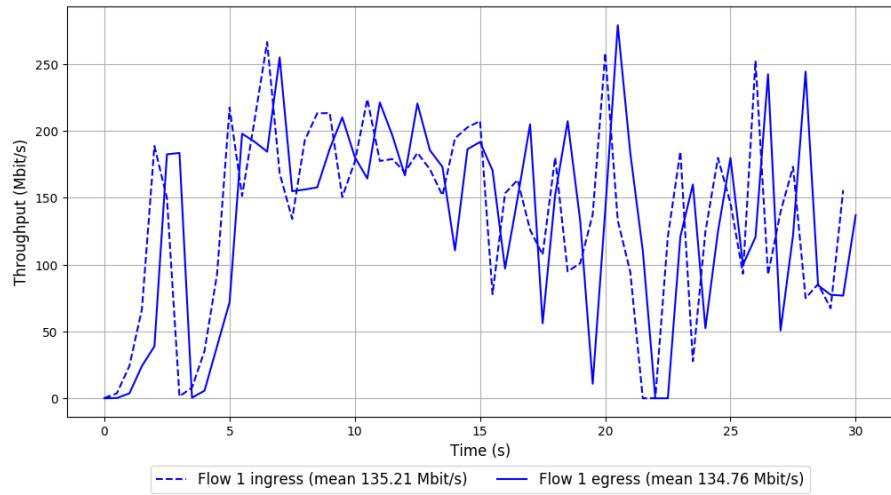


Run 3: Statistics of Verus

```
Start at: 2019-07-11 22:46:12
End at: 2019-07-11 22:46:42
Local clock offset: 0.321 ms
Remote clock offset: 0.201 ms

# Below is generated by plot.py at 2019-07-12 02:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.76 Mbit/s
95th percentile per-packet one-way delay: 170.003 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 134.76 Mbit/s
95th percentile per-packet one-way delay: 170.003 ms
Loss rate: 0.48%
```

Run 3: Report of Verus — Data Link

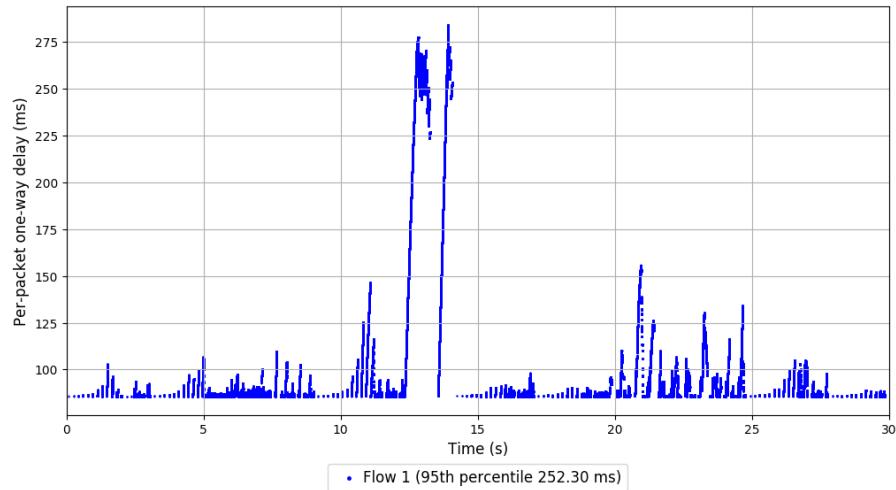
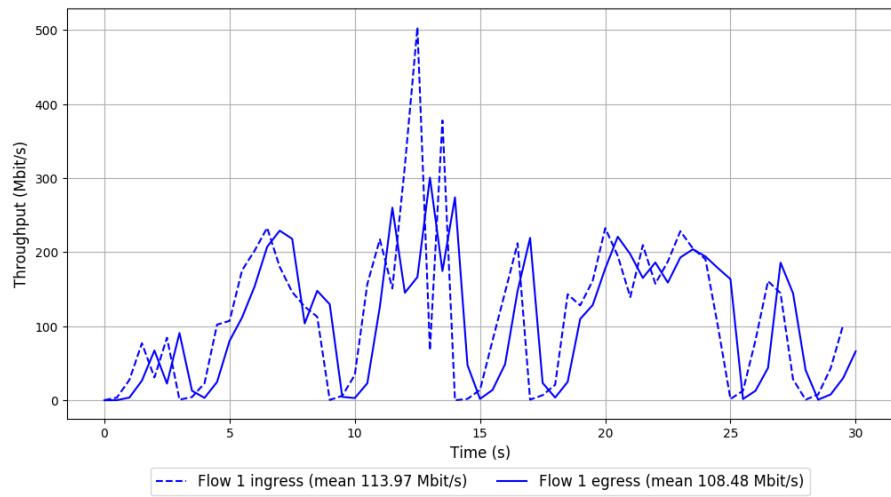


Run 4: Statistics of Verus

```
Start at: 2019-07-11 23:21:37
End at: 2019-07-11 23:22:07
Local clock offset: -0.194 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-07-12 02:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 108.48 Mbit/s
95th percentile per-packet one-way delay: 252.297 ms
Loss rate: 5.28%
-- Flow 1:
Average throughput: 108.48 Mbit/s
95th percentile per-packet one-way delay: 252.297 ms
Loss rate: 5.28%
```

Run 4: Report of Verus — Data Link

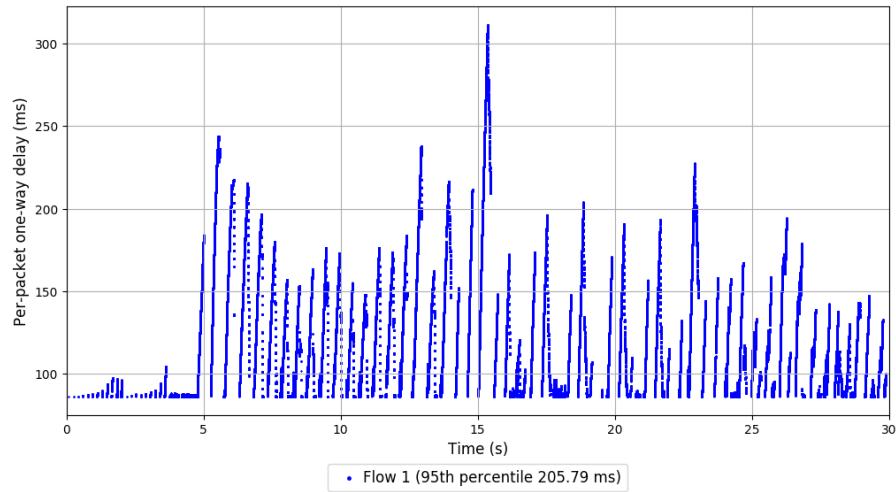
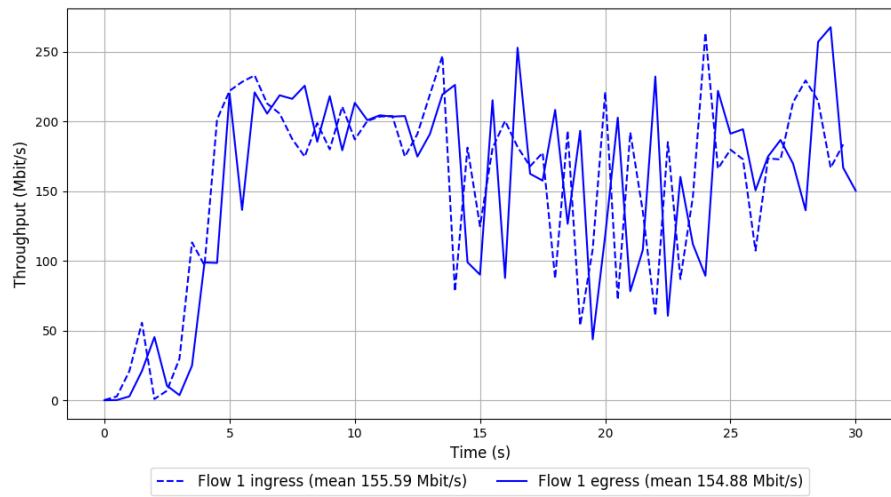


Run 5: Statistics of Verus

```
Start at: 2019-07-11 23:57:09
End at: 2019-07-11 23:57:39
Local clock offset: 0.322 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2019-07-12 02:12:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.88 Mbit/s
95th percentile per-packet one-way delay: 205.792 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 154.88 Mbit/s
95th percentile per-packet one-way delay: 205.792 ms
Loss rate: 0.57%
```

Run 5: Report of Verus — Data Link

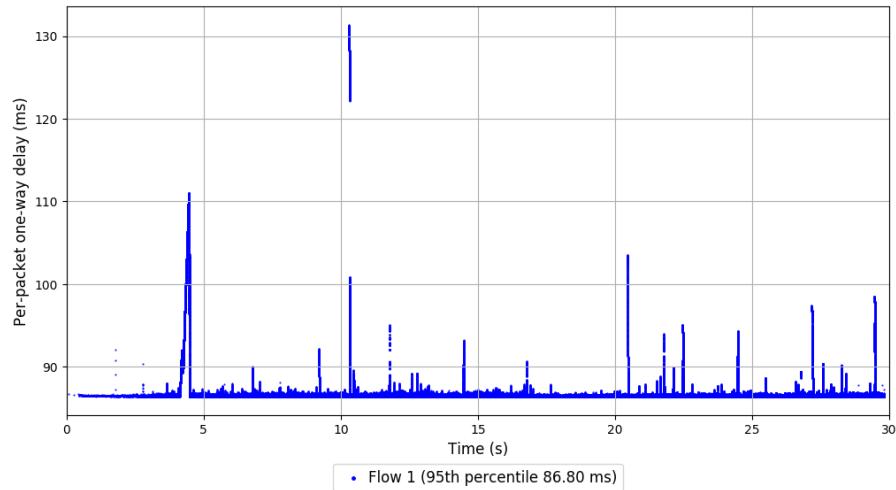
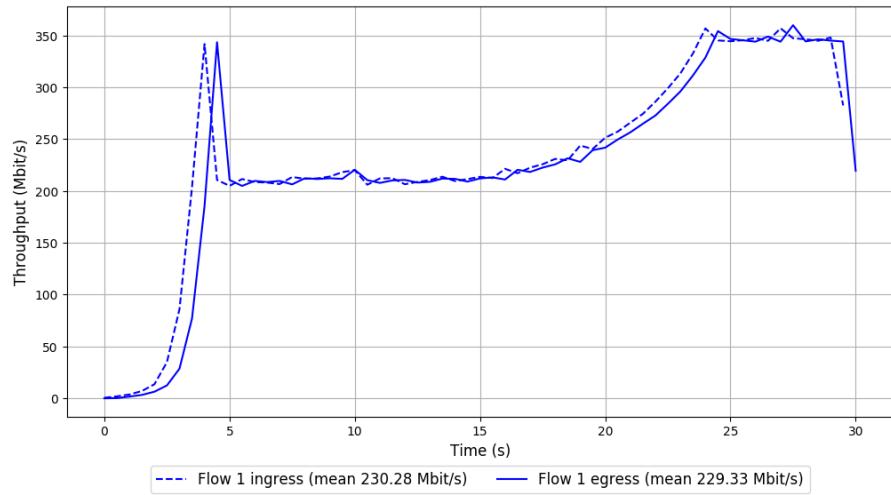


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-07-11 21:44:46
End at: 2019-07-11 21:45:16
Local clock offset: 1.172 ms
Remote clock offset: 0.918 ms

# Below is generated by plot.py at 2019-07-12 02:12:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.33 Mbit/s
95th percentile per-packet one-way delay: 86.804 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 229.33 Mbit/s
95th percentile per-packet one-way delay: 86.804 ms
Loss rate: 0.99%
```

Run 1: Report of PCC-Vivace — Data Link

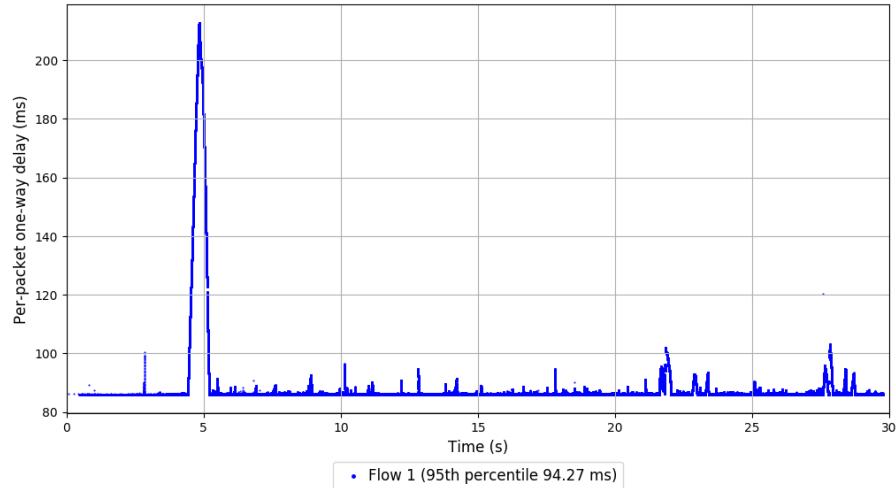
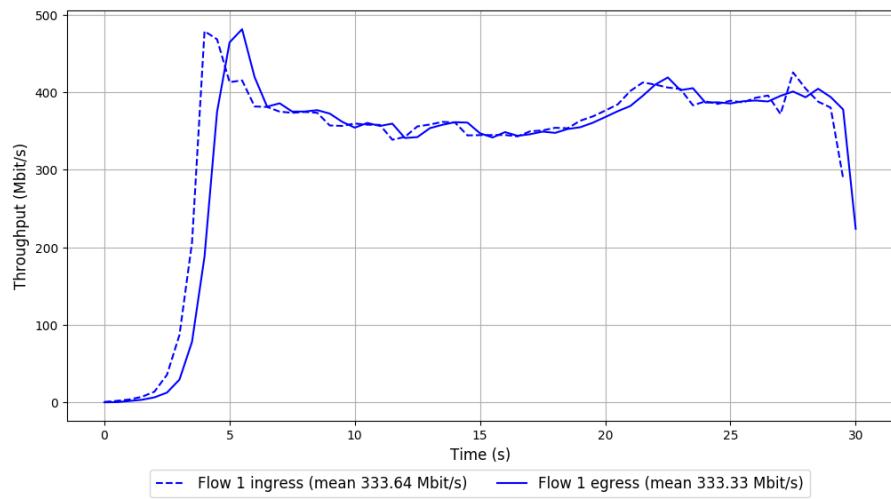


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-07-11 22:20:18
End at: 2019-07-11 22:20:48
Local clock offset: 0.469 ms
Remote clock offset: 0.508 ms

# Below is generated by plot.py at 2019-07-12 02:13:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 333.33 Mbit/s
95th percentile per-packet one-way delay: 94.267 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 333.33 Mbit/s
95th percentile per-packet one-way delay: 94.267 ms
Loss rate: 0.67%
```

Run 2: Report of PCC-Vivace — Data Link

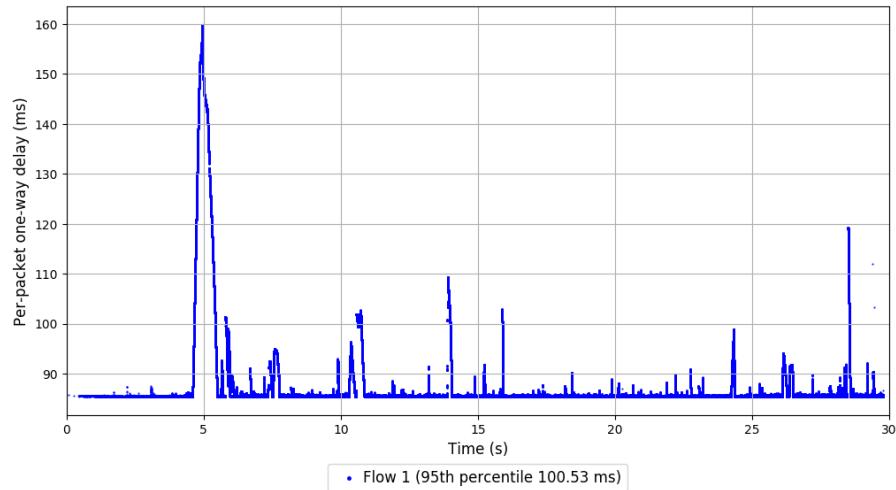
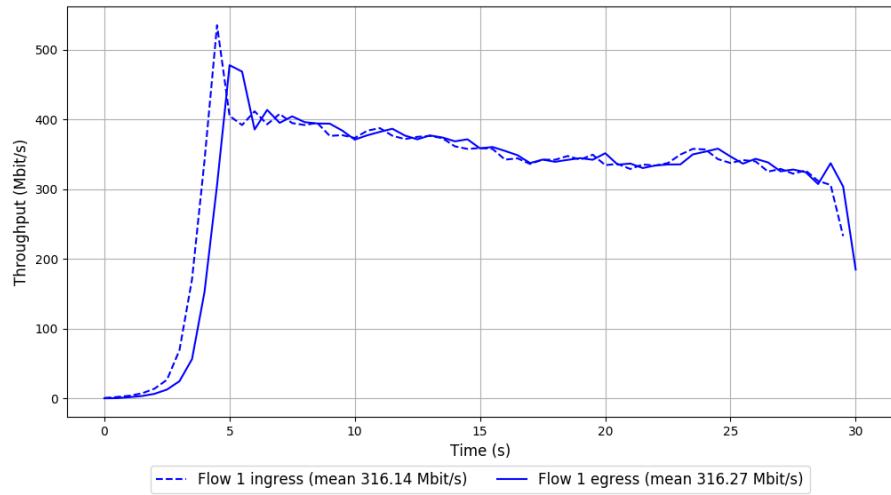


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-07-11 22:55:50
End at: 2019-07-11 22:56:21
Local clock offset: -0.292 ms
Remote clock offset: 0.164 ms

# Below is generated by plot.py at 2019-07-12 02:14:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 316.27 Mbit/s
95th percentile per-packet one-way delay: 100.534 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 316.27 Mbit/s
95th percentile per-packet one-way delay: 100.534 ms
Loss rate: 0.54%
```

Run 3: Report of PCC-Vivace — Data Link

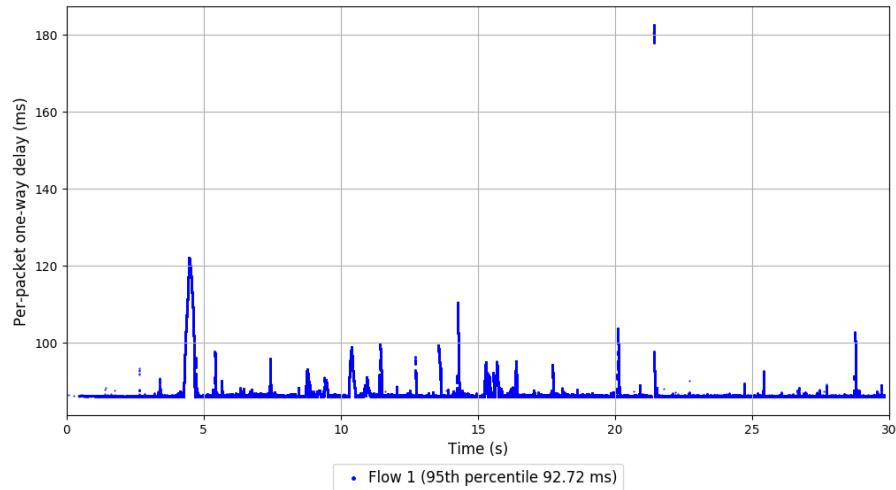
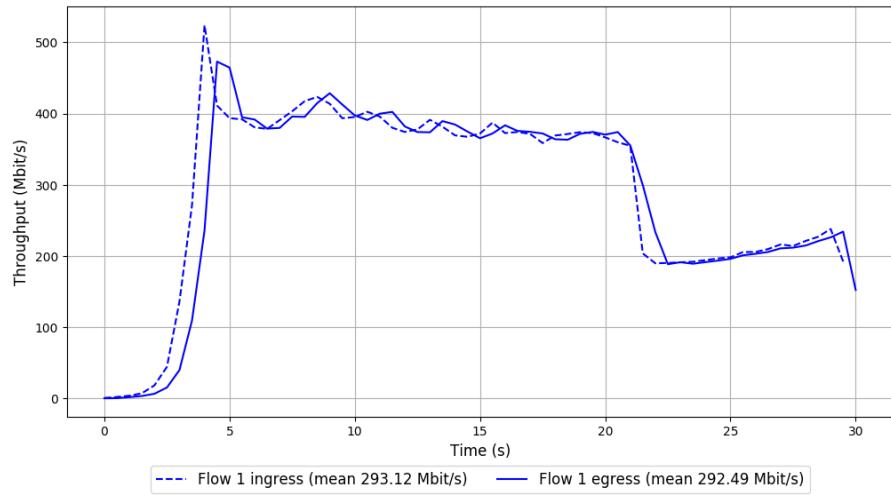


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-07-11 23:31:05
End at: 2019-07-11 23:31:35
Local clock offset: 0.052 ms
Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-07-12 02:14:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.49 Mbit/s
95th percentile per-packet one-way delay: 92.718 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 292.49 Mbit/s
95th percentile per-packet one-way delay: 92.718 ms
Loss rate: 0.80%
```

Run 4: Report of PCC-Vivace — Data Link

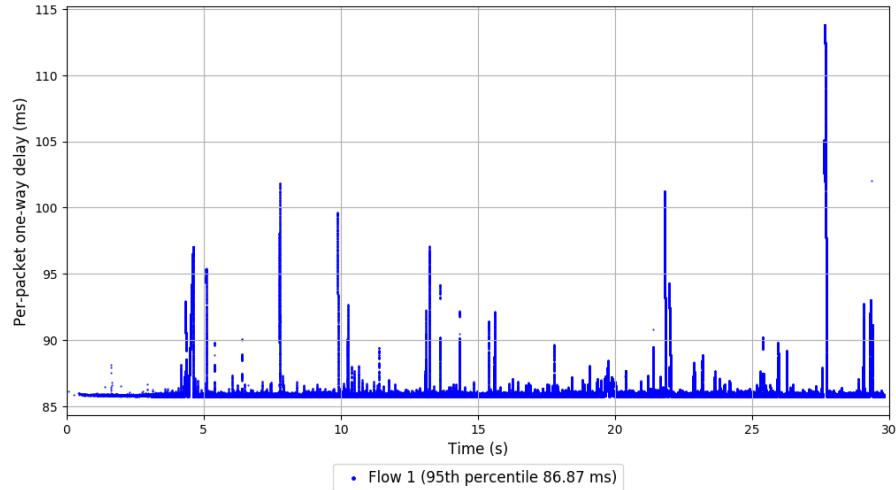
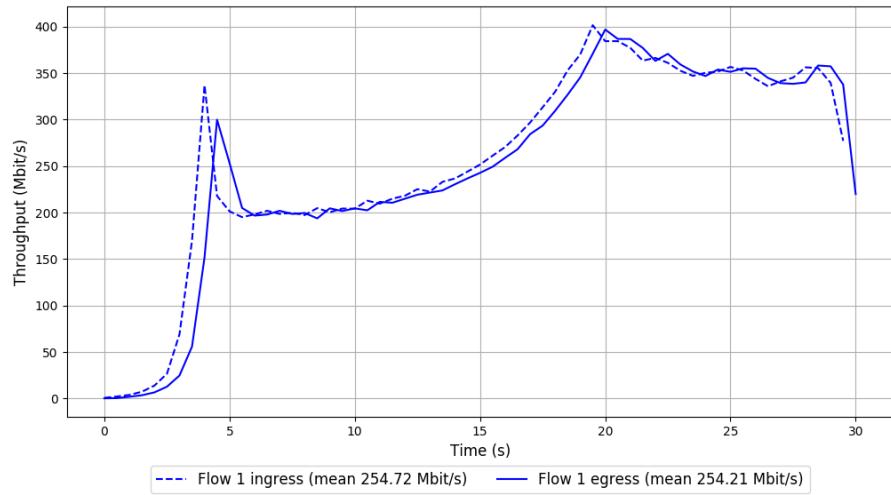


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-07-12 00:06:47
End at: 2019-07-12 00:07:17
Local clock offset: -0.074 ms
Remote clock offset: 0.052 ms

# Below is generated by plot.py at 2019-07-12 02:14:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.21 Mbit/s
95th percentile per-packet one-way delay: 86.870 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 254.21 Mbit/s
95th percentile per-packet one-way delay: 86.870 ms
Loss rate: 0.78%
```

Run 5: Report of PCC-Vivace — Data Link

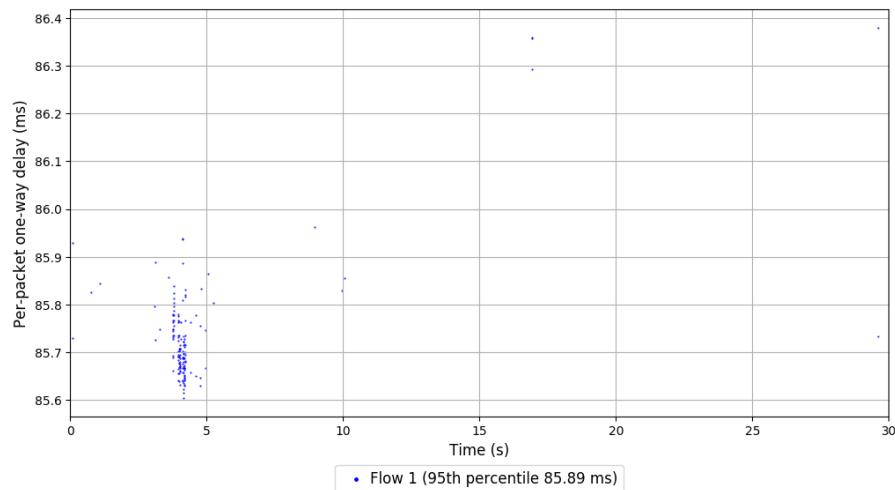
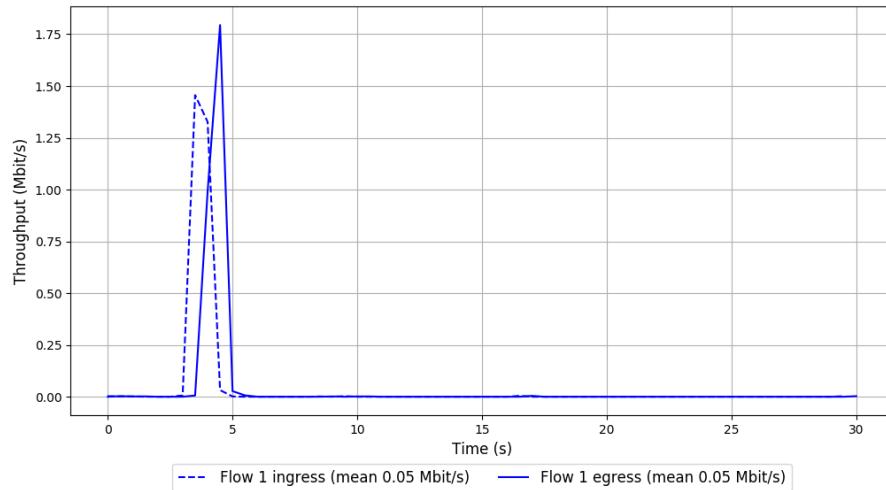


```
Run 1: Statistics of WebRTC media

Start at: 2019-07-11 21:13:15
End at: 2019-07-11 21:13:45
Local clock offset: 3.778 ms
Remote clock offset: 2.321 ms

# Below is generated by plot.py at 2019-07-12 02:14:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.888 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.888 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

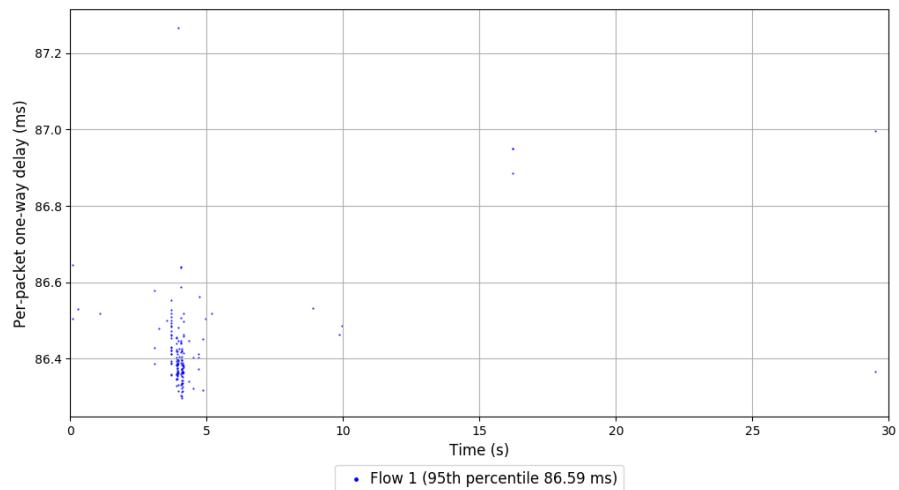
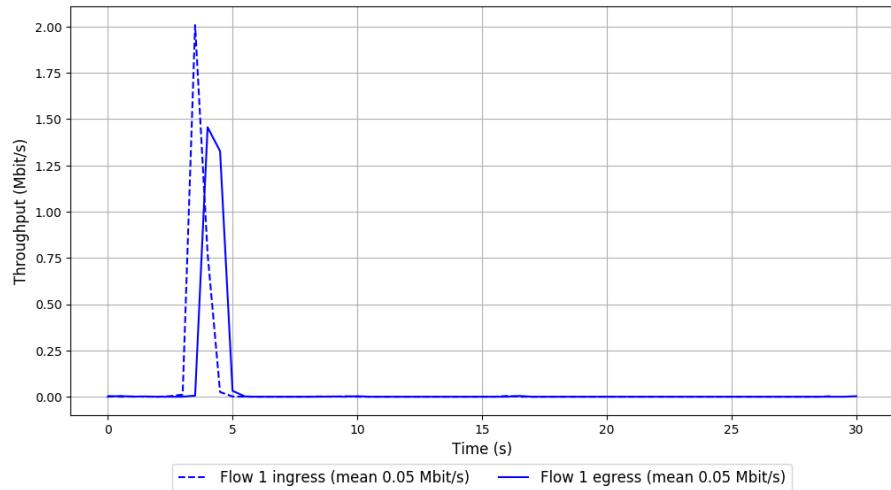


Run 2: Statistics of WebRTC media

```
Start at: 2019-07-11 21:48:58
End at: 2019-07-11 21:49:28
Local clock offset: 1.409 ms
Remote clock offset: 1.004 ms

# Below is generated by plot.py at 2019-07-12 02:14:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.588 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.588 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

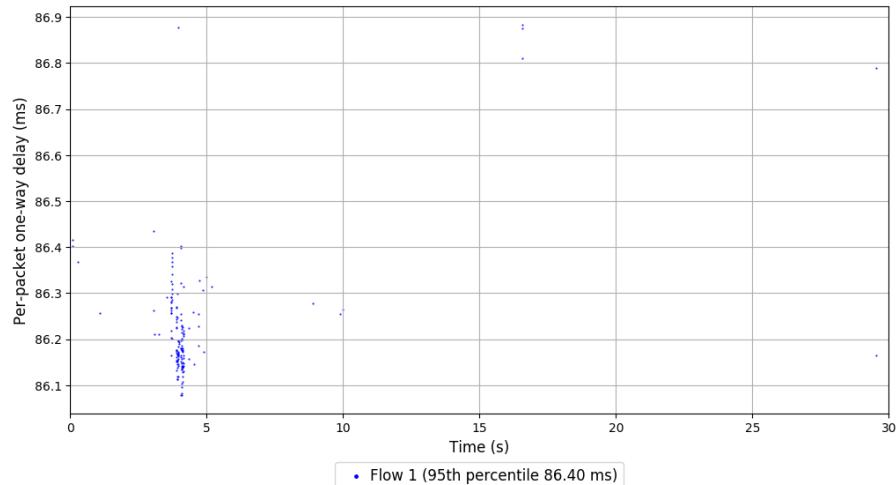
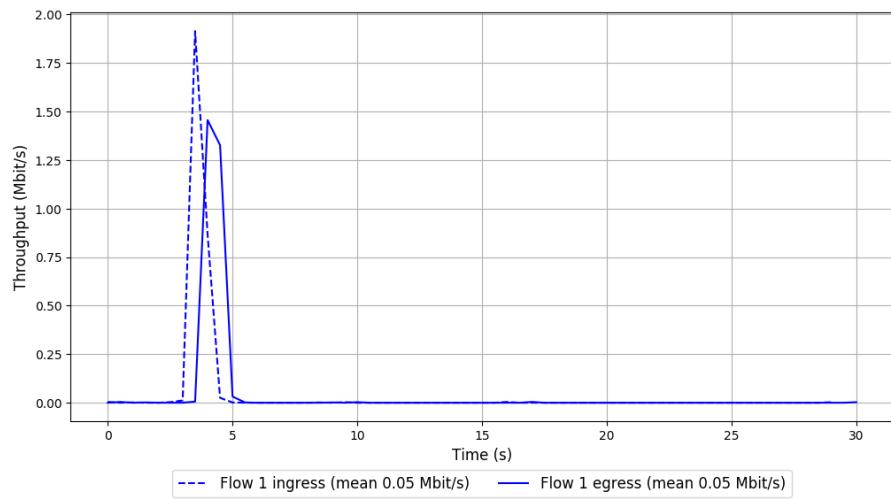


Run 3: Statistics of WebRTC media

```
Start at: 2019-07-11 22:24:36
End at: 2019-07-11 22:25:06
Local clock offset: 0.746 ms
Remote clock offset: 0.585 ms

# Below is generated by plot.py at 2019-07-12 02:14:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.403 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.403 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

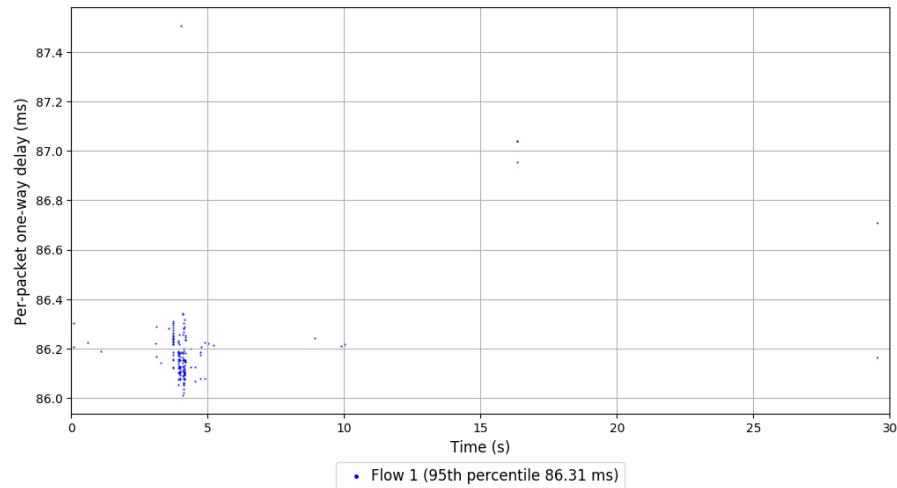
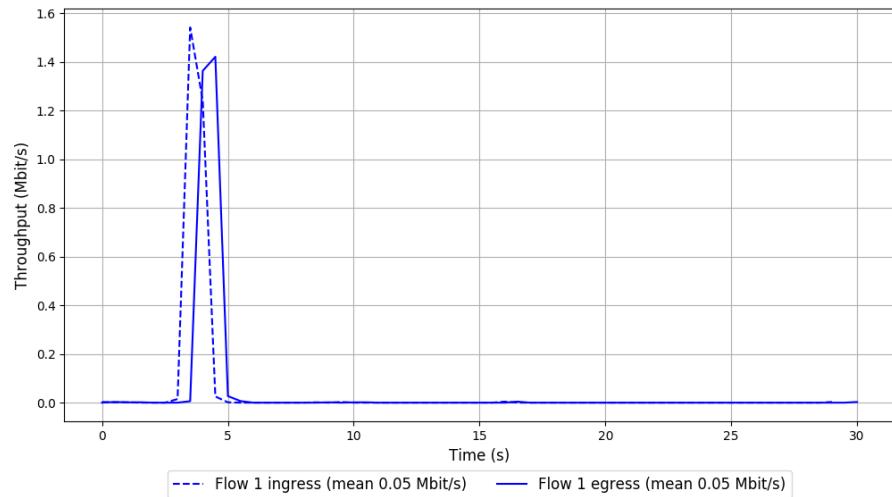


Run 4: Statistics of WebRTC media

```
Start at: 2019-07-11 23:00:10
End at: 2019-07-11 23:00:40
Local clock offset: 0.348 ms
Remote clock offset: 0.185 ms

# Below is generated by plot.py at 2019-07-12 02:14:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.311 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.311 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-07-11 23:35:23
End at: 2019-07-11 23:35:53
Local clock offset: -0.097 ms
Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2019-07-12 02:14:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.066 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.066 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

