

Pantheon Report

Generated at 2019-03-26 23:09:38 (UTC).
Data path: GCE Iowa on `ens4` (*remote*) → GCE Sydney on `ens4` (*local*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

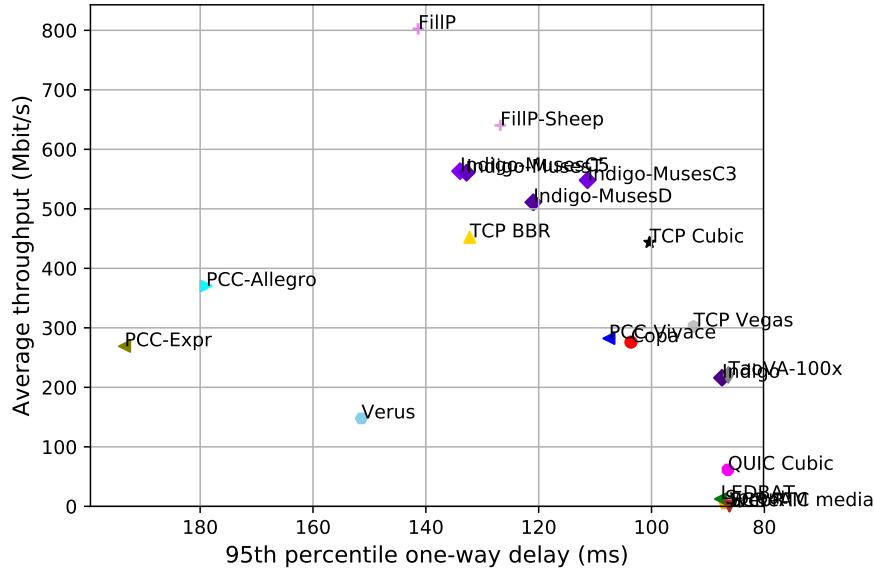
```
Linux 4.15.0-1028-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

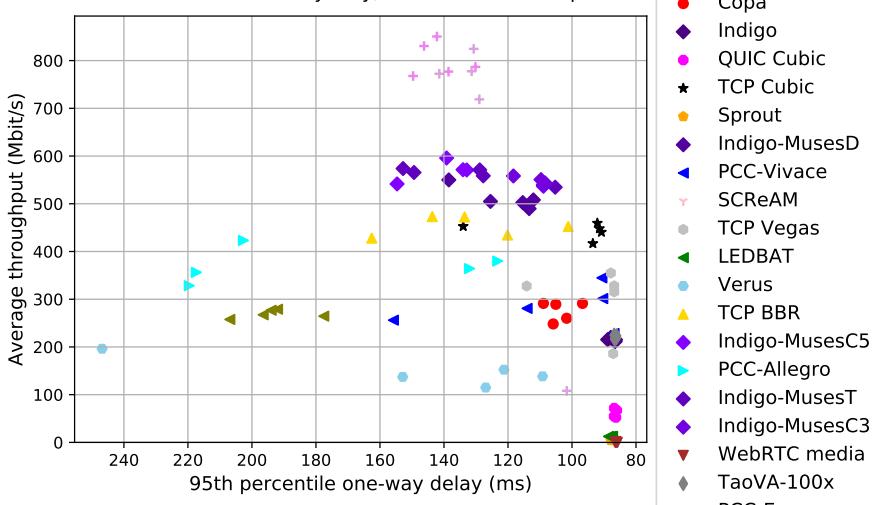
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ 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



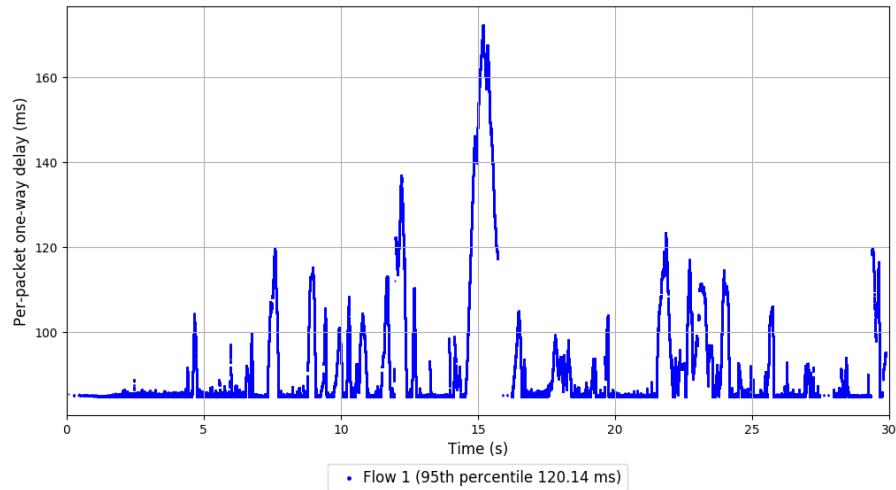
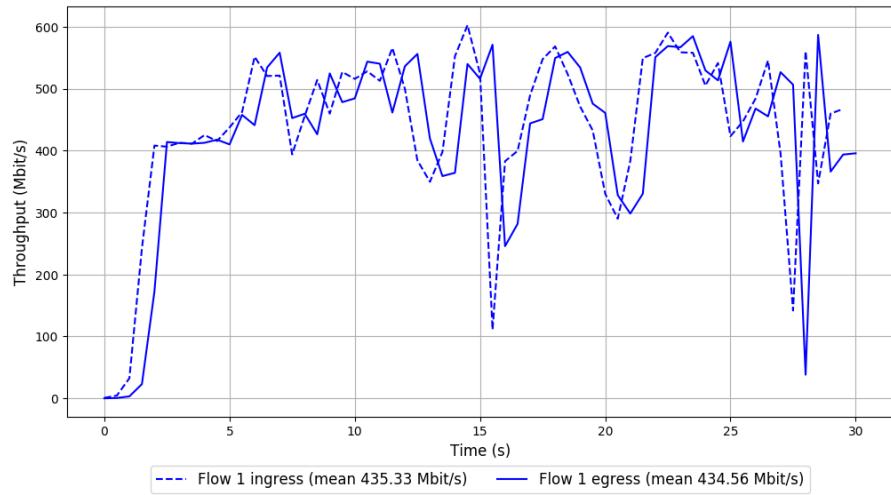
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	452.12	132.21	0.92
Copa	5	276.01	103.65	0.57
TCP Cubic	5	443.46	100.35	0.66
FillP	5	802.45	141.37	1.41
FillP-Sheep	5	640.30	126.82	0.55
Indigo	5	216.07	87.51	0.59
Indigo-MusesC3	4	548.03	111.34	0.68
Indigo-MusesC5	5	563.27	133.93	0.77
Indigo-MusesD	5	511.05	120.95	0.67
Indigo-MusesT	5	560.69	132.79	0.68
LEDBAT	5	12.34	87.77	1.16
PCC-Allegro	5	370.40	178.95	5.52
PCC-Expr	5	269.07	193.40	2.01
QUIC Cubic	4	61.44	86.48	0.84
SCReAM	5	0.22	86.22	0.59
Sprout	5	4.40	86.97	0.56
TaoVA-100x	5	220.91	86.39	0.56
TCP Vegas	5	302.38	92.55	0.58
Verus	5	147.82	151.42	3.41
PCC-Vivace	5	282.21	107.55	0.64
WebRTC media	5	0.42	86.20	0.20

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-26 19:16:05
End at: 2019-03-26 19:16:35
Local clock offset: 23.573 ms
Remote clock offset: 24.106 ms

# Below is generated by plot.py at 2019-03-26 21:40:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 434.56 Mbit/s
95th percentile per-packet one-way delay: 120.145 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 434.56 Mbit/s
95th percentile per-packet one-way delay: 120.145 ms
Loss rate: 0.75%
```

Run 1: Report of TCP BBR — Data Link

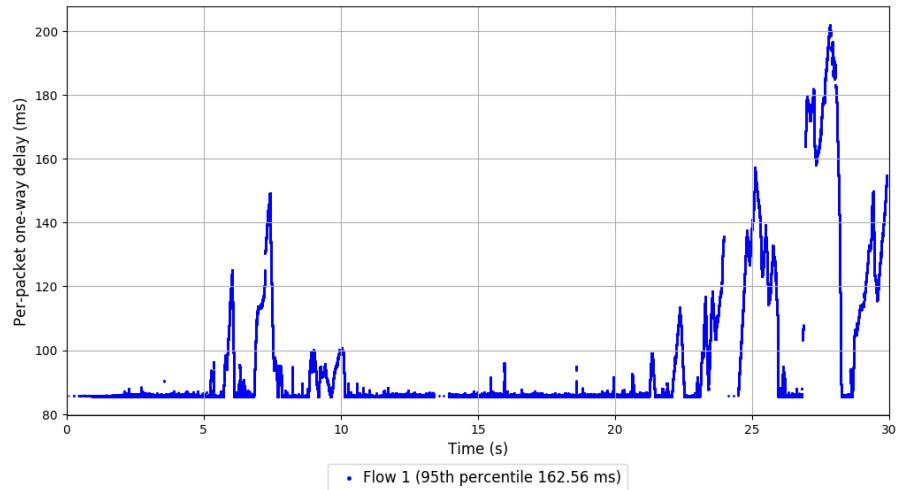
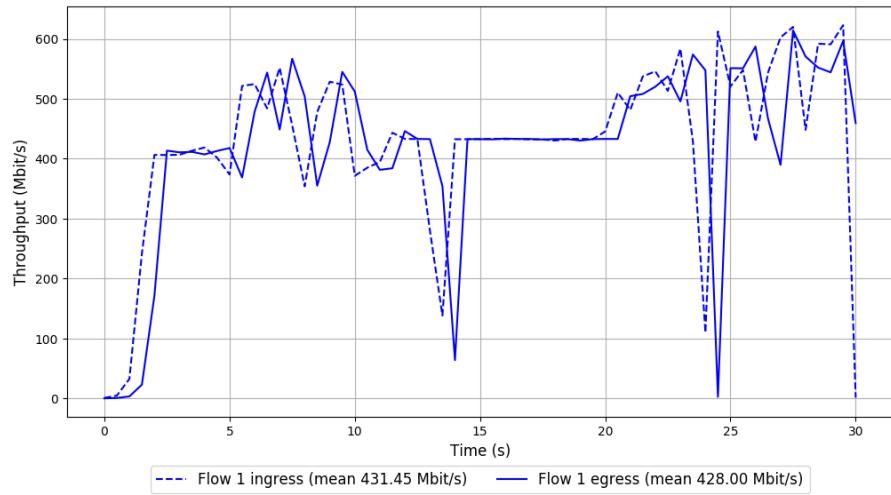


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-26 19:47:04
End at: 2019-03-26 19:47:34
Local clock offset: 36.594 ms
Remote clock offset: 36.34 ms

# Below is generated by plot.py at 2019-03-26 21:40:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 428.00 Mbit/s
95th percentile per-packet one-way delay: 162.558 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 428.00 Mbit/s
95th percentile per-packet one-way delay: 162.558 ms
Loss rate: 1.37%
```

Run 2: Report of TCP BBR — Data Link

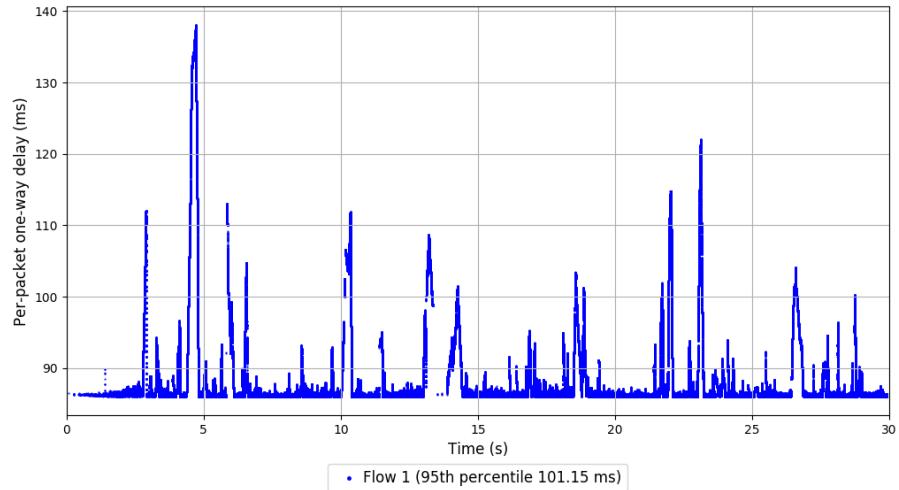
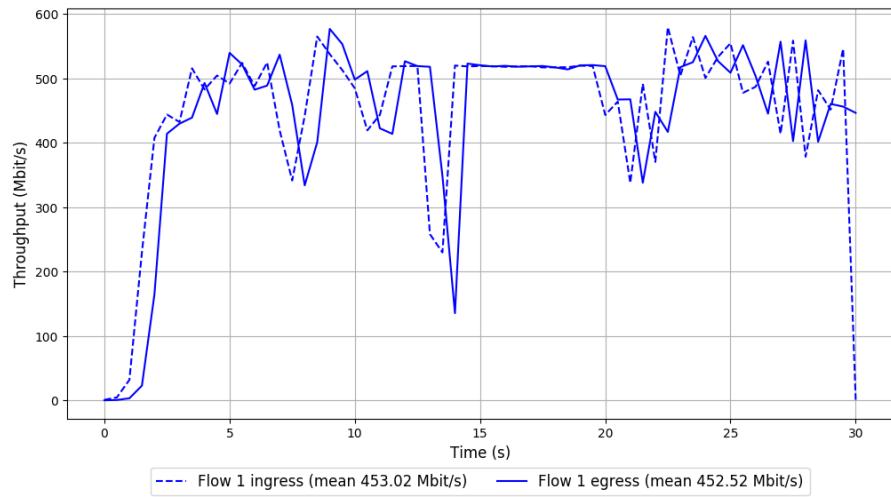


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-26 20:18:06
End at: 2019-03-26 20:18:36
Local clock offset: 18.308 ms
Remote clock offset: 17.904 ms

# Below is generated by plot.py at 2019-03-26 21:40:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 452.52 Mbit/s
95th percentile per-packet one-way delay: 101.152 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 452.52 Mbit/s
95th percentile per-packet one-way delay: 101.152 ms
Loss rate: 0.69%
```

Run 3: Report of TCP BBR — Data Link

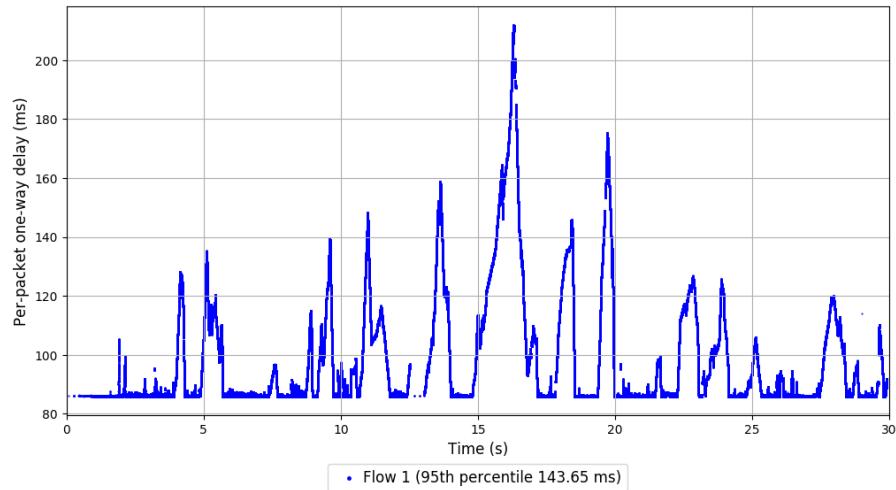
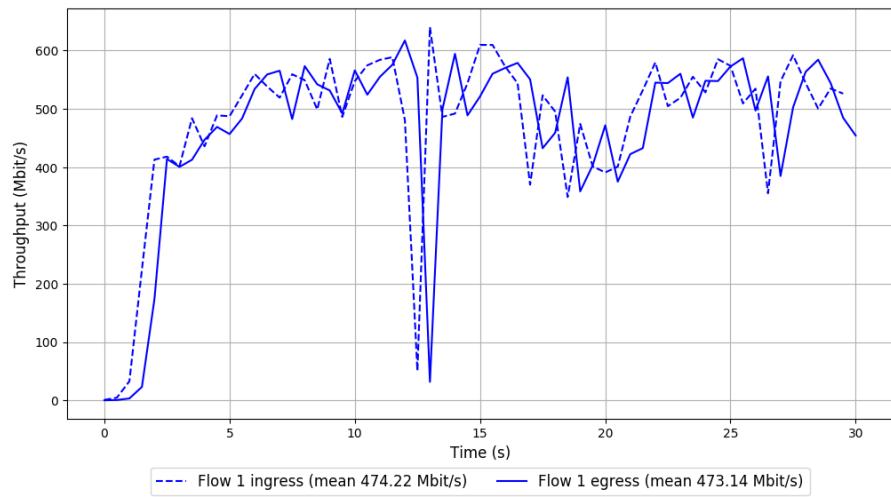


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-26 20:49:15
End at: 2019-03-26 20:49:45
Local clock offset: 4.769 ms
Remote clock offset: 8.257 ms

# Below is generated by plot.py at 2019-03-26 21:41:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 473.14 Mbit/s
95th percentile per-packet one-way delay: 143.650 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 473.14 Mbit/s
95th percentile per-packet one-way delay: 143.650 ms
Loss rate: 0.80%
```

Run 4: Report of TCP BBR — Data Link

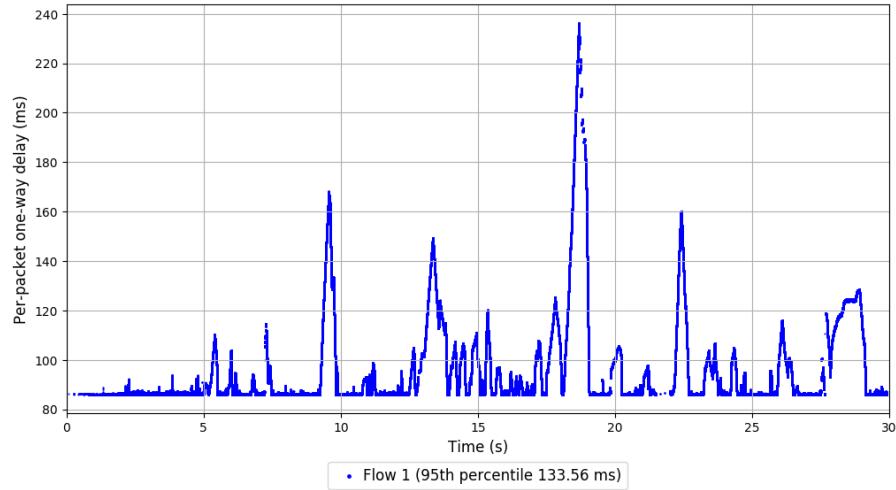
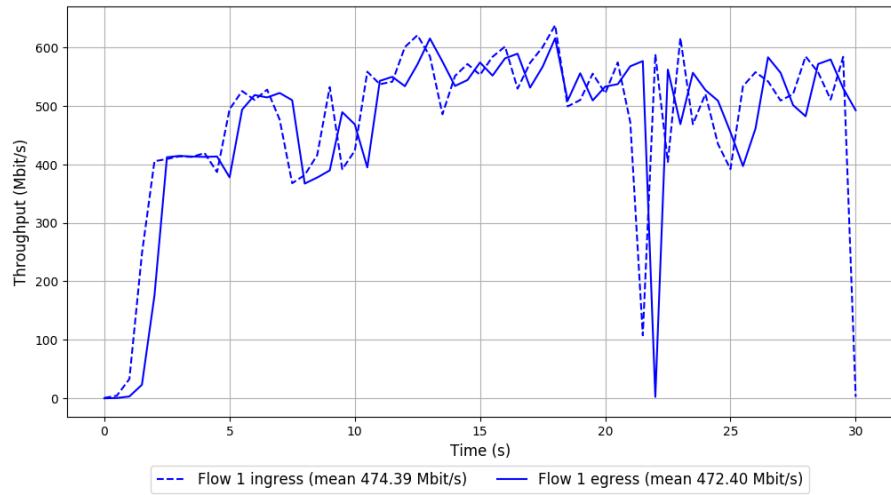


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-26 21:20:31
End at: 2019-03-26 21:21:01
Local clock offset: 1.988 ms
Remote clock offset: 4.023 ms

# Below is generated by plot.py at 2019-03-26 21:41:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 472.40 Mbit/s
95th percentile per-packet one-way delay: 133.563 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 472.40 Mbit/s
95th percentile per-packet one-way delay: 133.563 ms
Loss rate: 0.99%
```

Run 5: Report of TCP BBR — Data Link

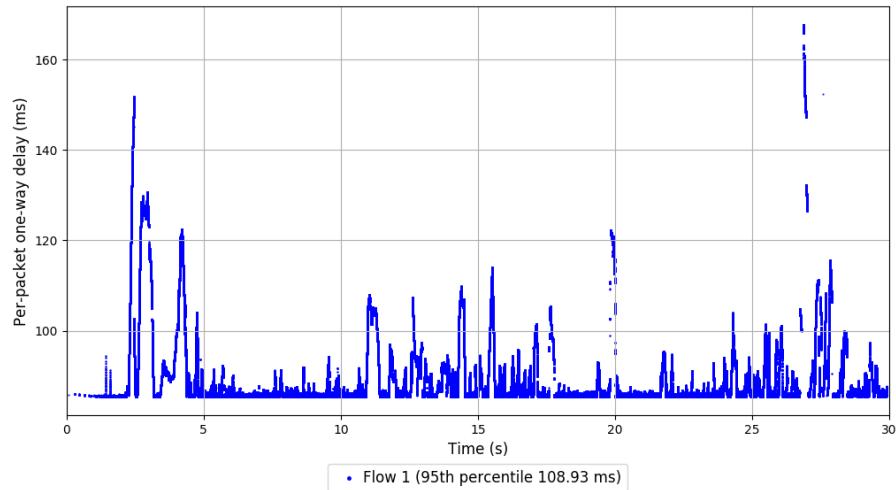
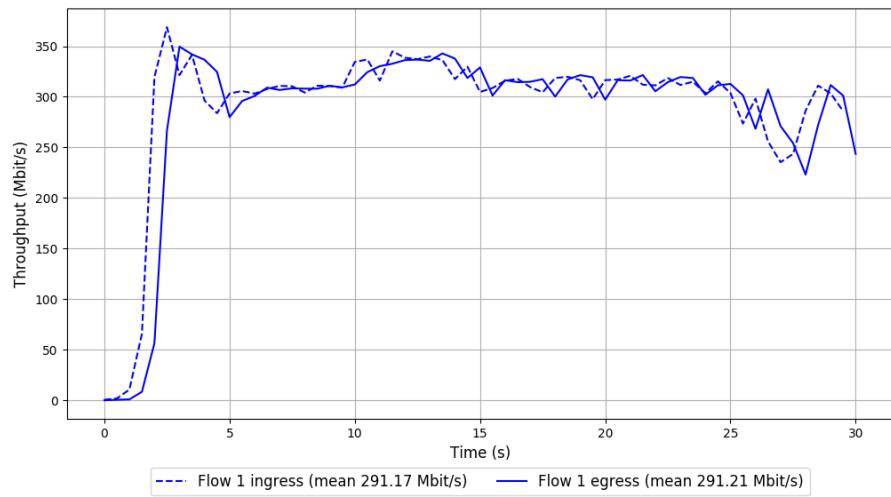


Run 1: Statistics of Copa

```
Start at: 2019-03-26 19:11:13
End at: 2019-03-26 19:11:43
Local clock offset: 17.151 ms
Remote clock offset: 17.309 ms

# Below is generated by plot.py at 2019-03-26 21:42:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 291.21 Mbit/s
95th percentile per-packet one-way delay: 108.927 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 291.21 Mbit/s
95th percentile per-packet one-way delay: 108.927 ms
Loss rate: 0.56%
```

Run 1: Report of Copa — Data Link

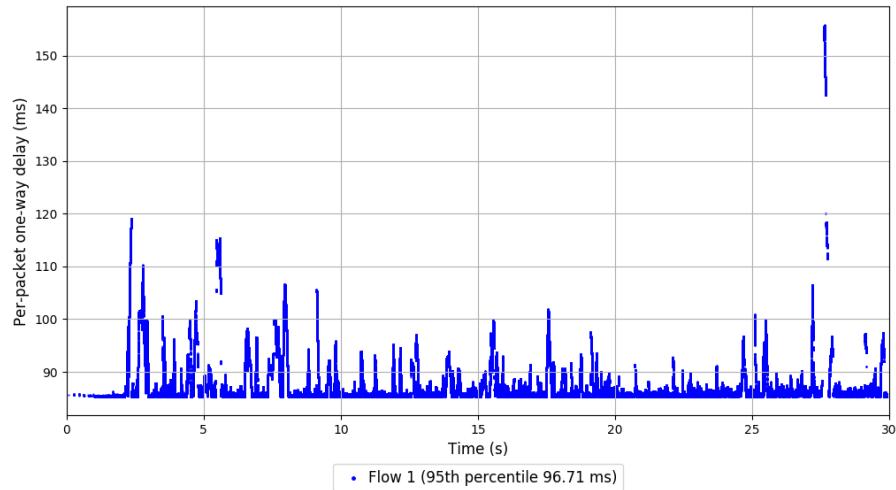
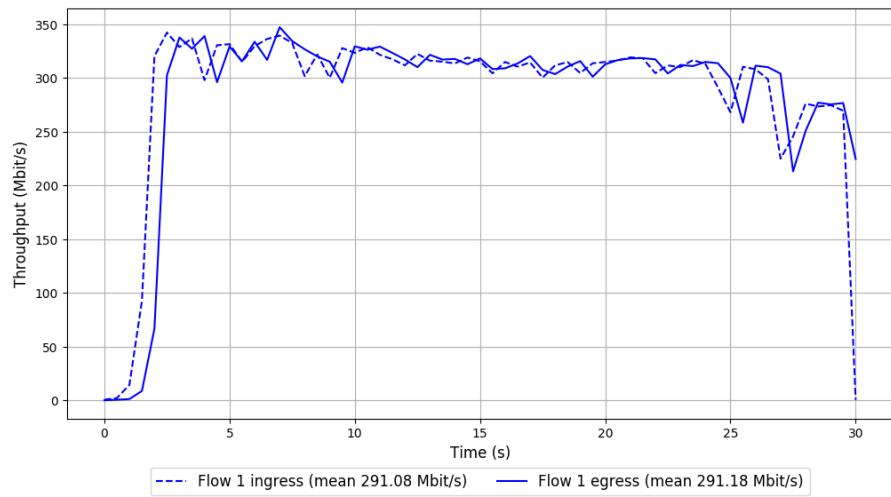


Run 2: Statistics of Copa

```
Start at: 2019-03-26 19:42:25
End at: 2019-03-26 19:42:55
Local clock offset: 31.136 ms
Remote clock offset: 31.091 ms

# Below is generated by plot.py at 2019-03-26 21:42:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 291.18 Mbit/s
95th percentile per-packet one-way delay: 96.710 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 291.18 Mbit/s
95th percentile per-packet one-way delay: 96.710 ms
Loss rate: 0.54%
```

Run 2: Report of Copa — Data Link

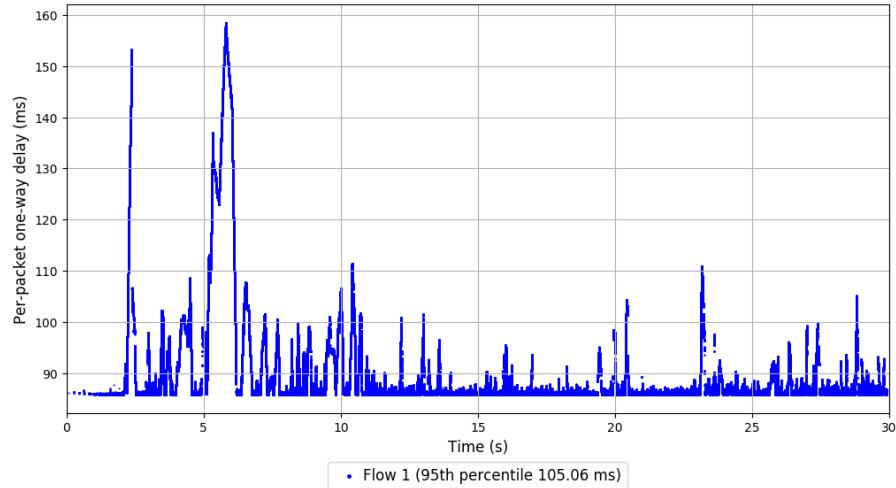
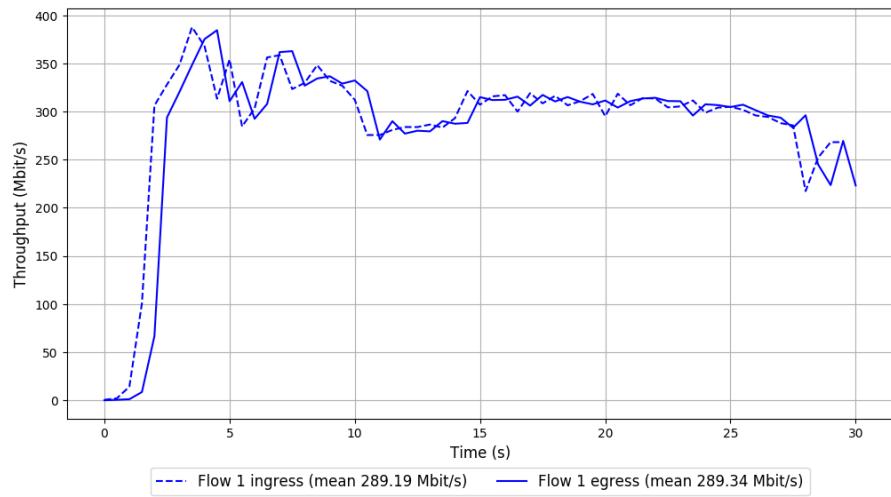


Run 3: Statistics of Copa

```
Start at: 2019-03-26 20:13:35
End at: 2019-03-26 20:14:05
Local clock offset: 17.129 ms
Remote clock offset: 16.904 ms

# Below is generated by plot.py at 2019-03-26 21:42:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.34 Mbit/s
95th percentile per-packet one-way delay: 105.055 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 289.34 Mbit/s
95th percentile per-packet one-way delay: 105.055 ms
Loss rate: 0.52%
```

Run 3: Report of Copa — Data Link

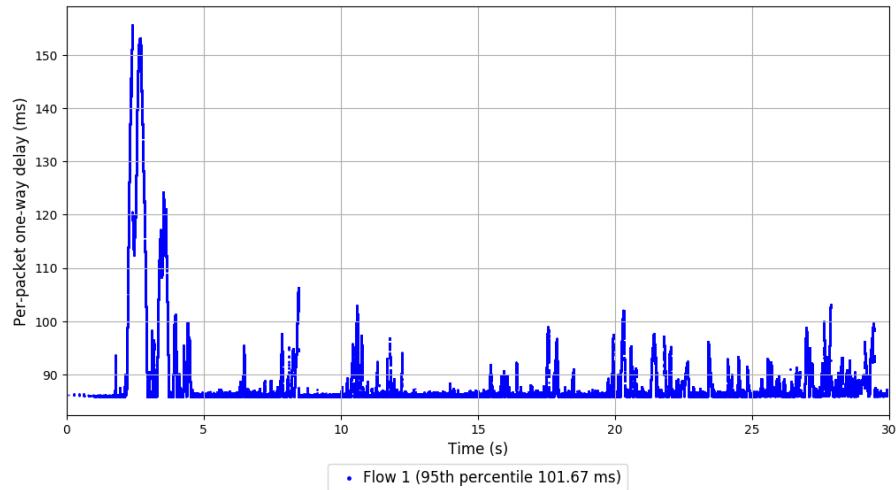
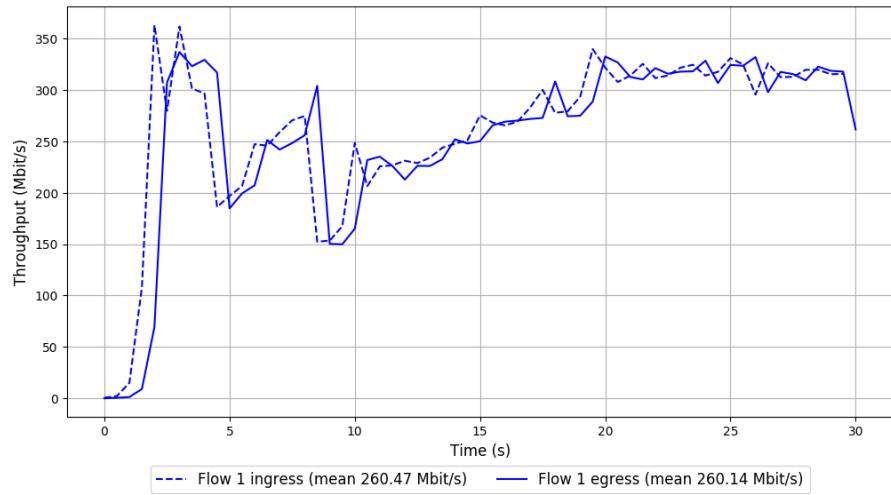


Run 4: Statistics of Copa

```
Start at: 2019-03-26 20:44:36
End at: 2019-03-26 20:45:06
Local clock offset: 5.469 ms
Remote clock offset: 8.219 ms

# Below is generated by plot.py at 2019-03-26 21:49:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 260.14 Mbit/s
95th percentile per-packet one-way delay: 101.667 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 260.14 Mbit/s
95th percentile per-packet one-way delay: 101.667 ms
Loss rate: 0.70%
```

Run 4: Report of Copa — Data Link

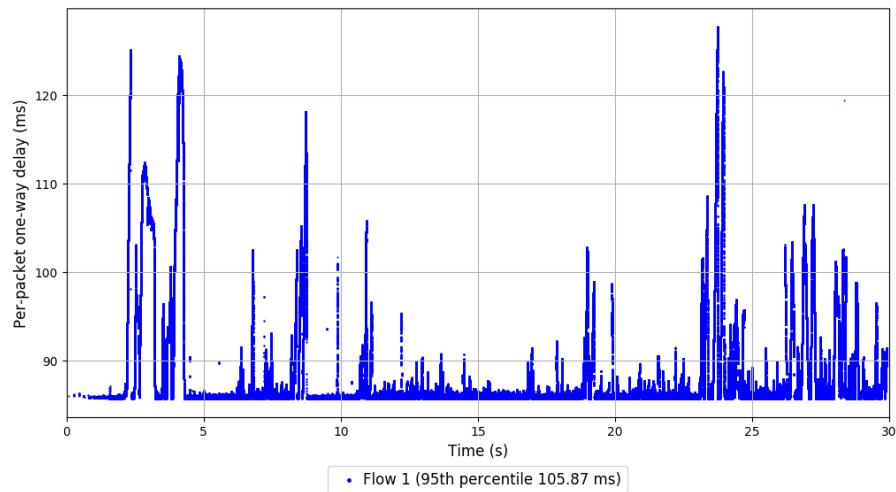
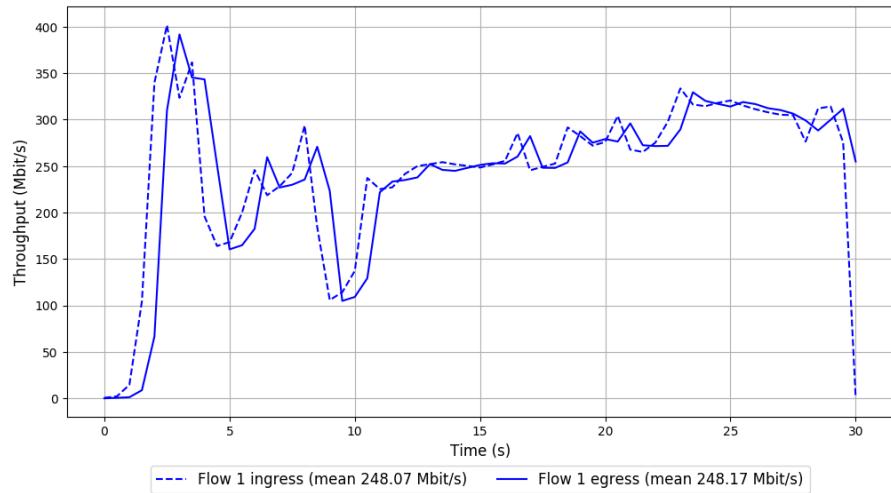


Run 5: Statistics of Copa

```
Start at: 2019-03-26 21:15:48
End at: 2019-03-26 21:16:18
Local clock offset: 1.983 ms
Remote clock offset: 4.295 ms

# Below is generated by plot.py at 2019-03-26 21:49:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.17 Mbit/s
95th percentile per-packet one-way delay: 105.866 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 248.17 Mbit/s
95th percentile per-packet one-way delay: 105.866 ms
Loss rate: 0.54%
```

Run 5: Report of Copa — Data Link

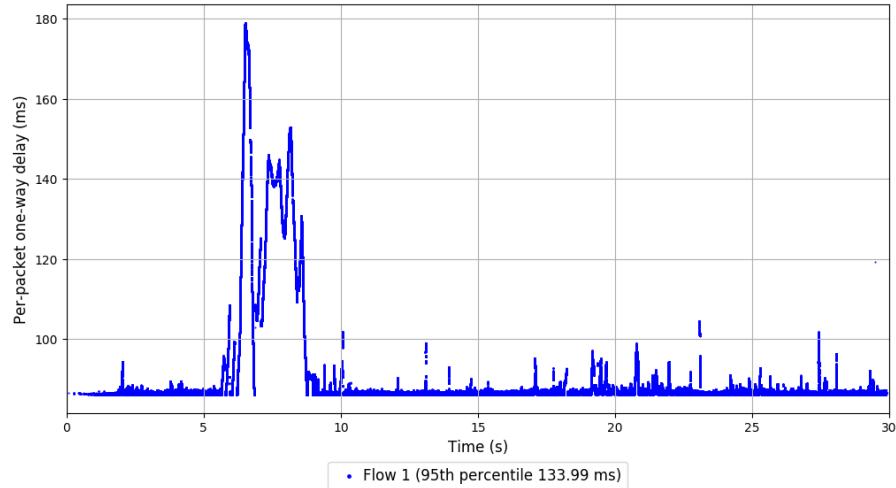
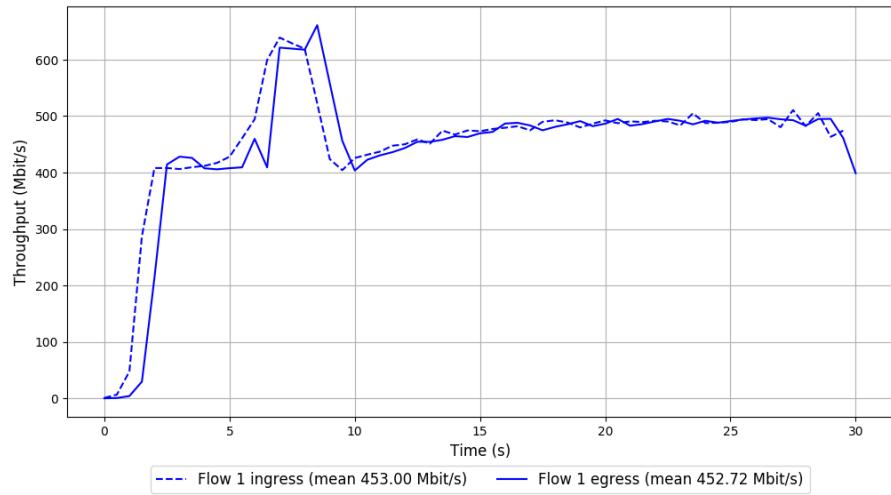


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-03-26 19:03:42
End at: 2019-03-26 19:04:12
Local clock offset: 17.727 ms
Remote clock offset: 17.468 ms

# Below is generated by plot.py at 2019-03-26 21:49:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 452.72 Mbit/s
95th percentile per-packet one-way delay: 133.986 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 452.72 Mbit/s
95th percentile per-packet one-way delay: 133.986 ms
Loss rate: 0.64%
```

Run 1: Report of TCP Cubic — Data Link

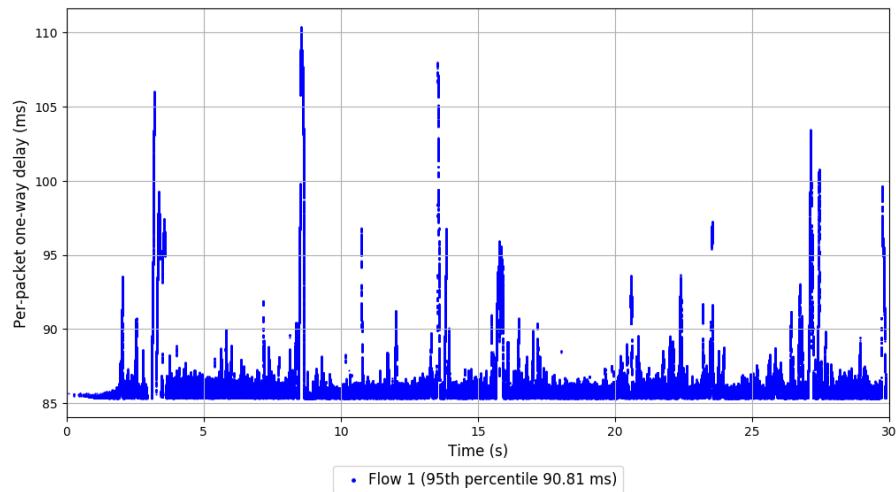
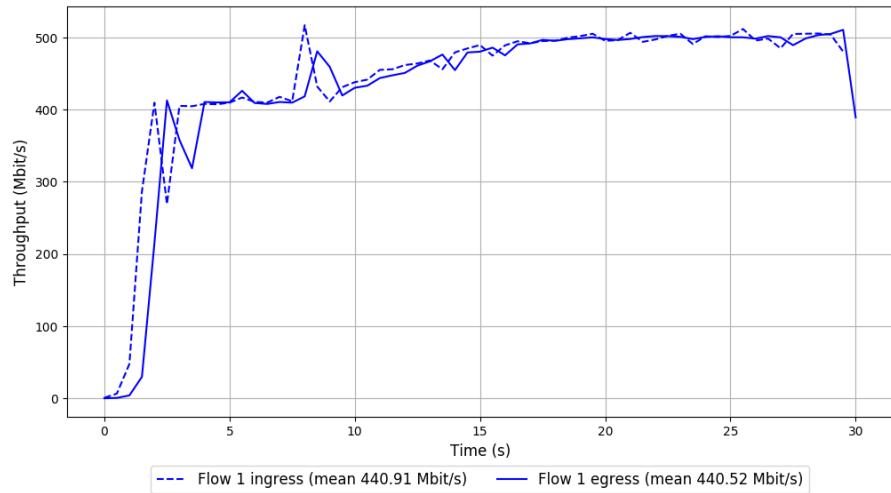


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-26 19:34:57
End at: 2019-03-26 19:35:27
Local clock offset: 24.405 ms
Remote clock offset: 24.471 ms

# Below is generated by plot.py at 2019-03-26 21:49:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 440.52 Mbit/s
95th percentile per-packet one-way delay: 90.805 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 440.52 Mbit/s
95th percentile per-packet one-way delay: 90.805 ms
Loss rate: 0.67%
```

Run 2: Report of TCP Cubic — Data Link

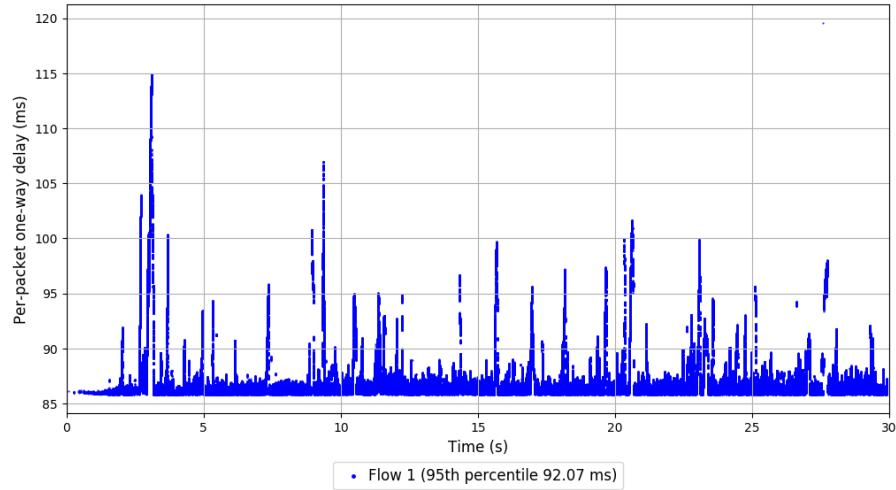
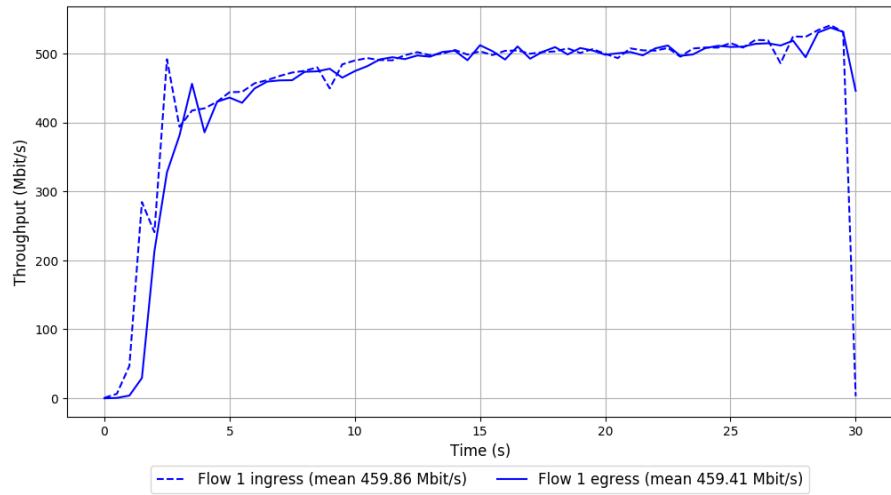


Run 3: Statistics of TCP Cubic

```
Start at: 2019-03-26 20:06:00
End at: 2019-03-26 20:06:30
Local clock offset: 18.153 ms
Remote clock offset: 18.344 ms

# Below is generated by plot.py at 2019-03-26 21:49:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 459.41 Mbit/s
95th percentile per-packet one-way delay: 92.068 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 459.41 Mbit/s
95th percentile per-packet one-way delay: 92.068 ms
Loss rate: 0.67%
```

Run 3: Report of TCP Cubic — Data Link

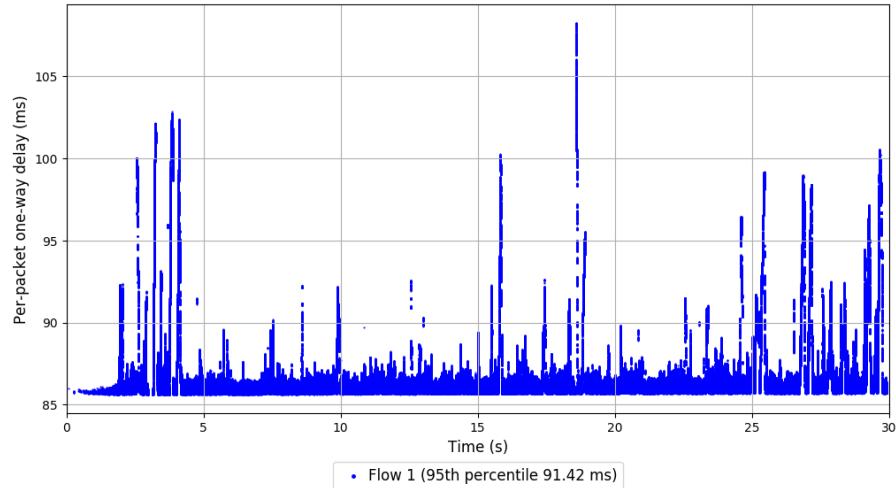
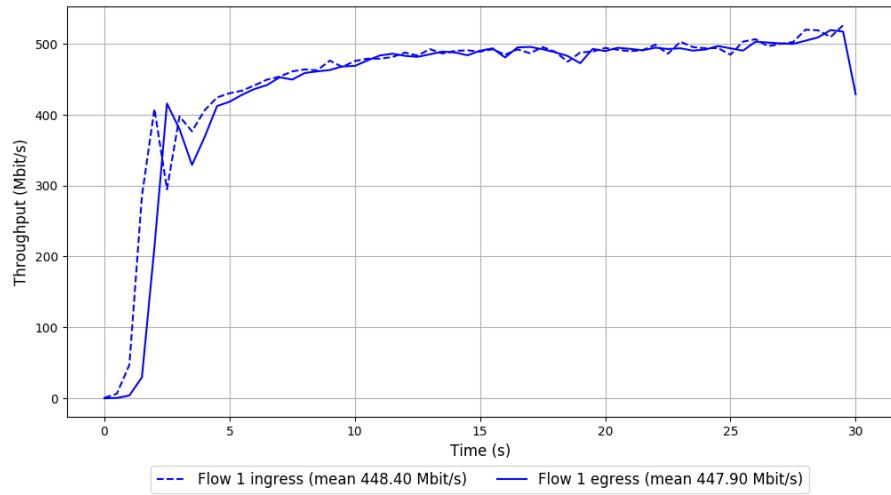


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-26 20:37:12
End at: 2019-03-26 20:37:42
Local clock offset: 8.711 ms
Remote clock offset: 10.435 ms

# Below is generated by plot.py at 2019-03-26 21:50:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 447.90 Mbit/s
95th percentile per-packet one-way delay: 91.415 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 447.90 Mbit/s
95th percentile per-packet one-way delay: 91.415 ms
Loss rate: 0.68%
```

Run 4: Report of TCP Cubic — Data Link

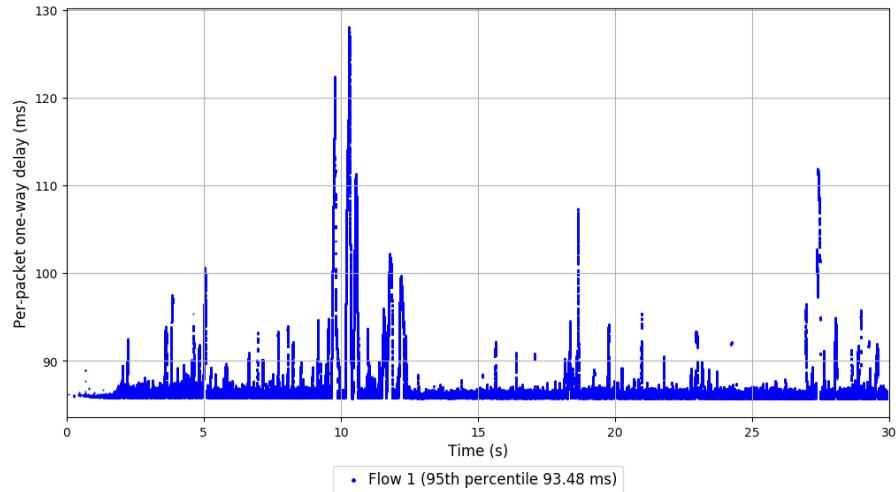
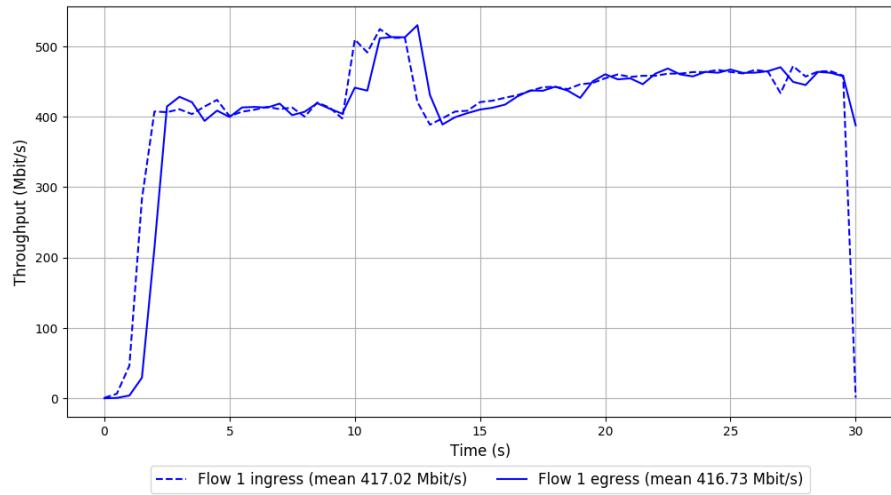


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-26 21:08:24
End at: 2019-03-26 21:08:54
Local clock offset: 3.043 ms
Remote clock offset: 6.188 ms

# Below is generated by plot.py at 2019-03-26 21:50:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 416.73 Mbit/s
95th percentile per-packet one-way delay: 93.481 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 416.73 Mbit/s
95th percentile per-packet one-way delay: 93.481 ms
Loss rate: 0.64%
```

Run 5: Report of TCP Cubic — Data Link

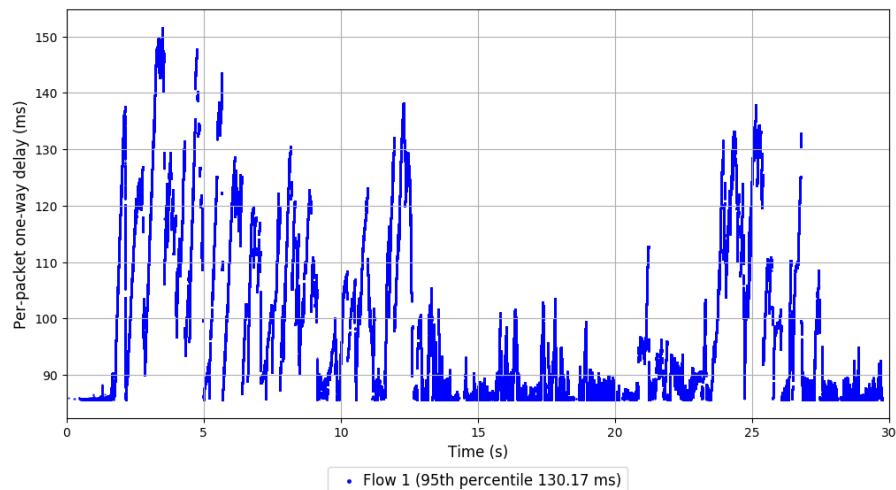
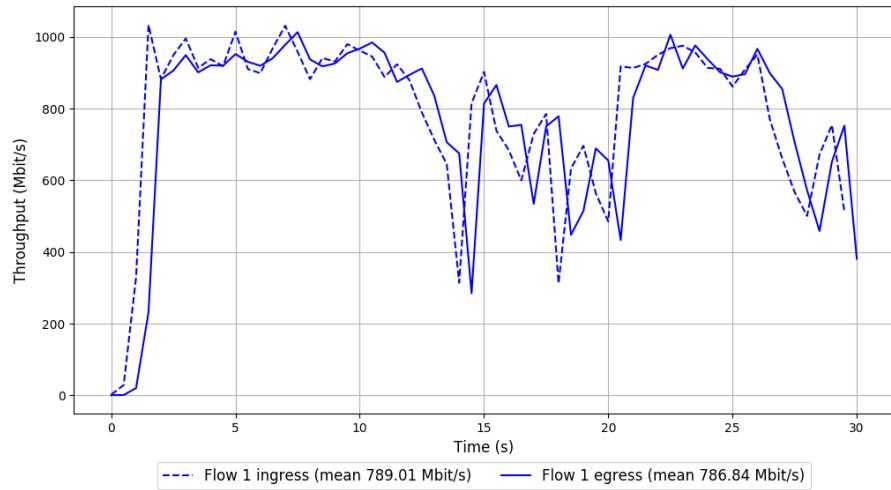


```
Run 1: Statistics of FillP
```

```
Start at: 2019-03-26 19:07:57
End at: 2019-03-26 19:08:27
Local clock offset: 14.919 ms
Remote clock offset: 14.824 ms

# Below is generated by plot.py at 2019-03-26 21:57:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 786.84 Mbit/s
95th percentile per-packet one-way delay: 130.168 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 786.84 Mbit/s
95th percentile per-packet one-way delay: 130.168 ms
Loss rate: 0.86%
```

Run 1: Report of FillP — Data Link

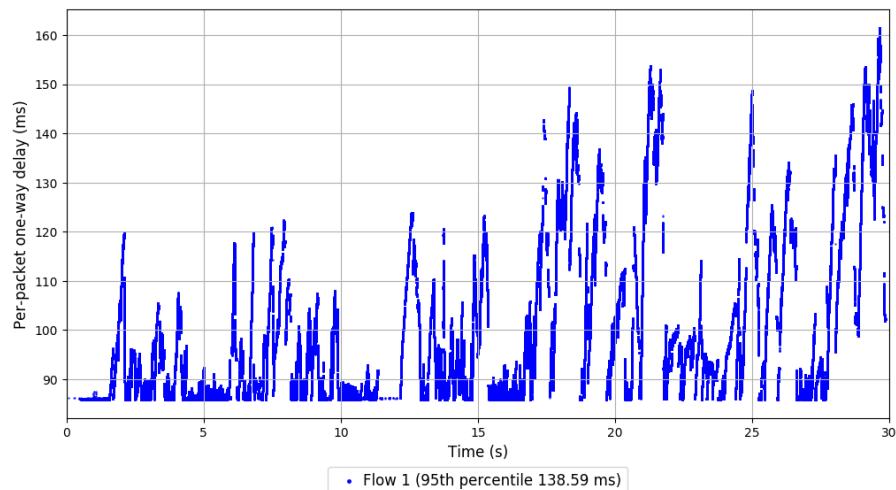
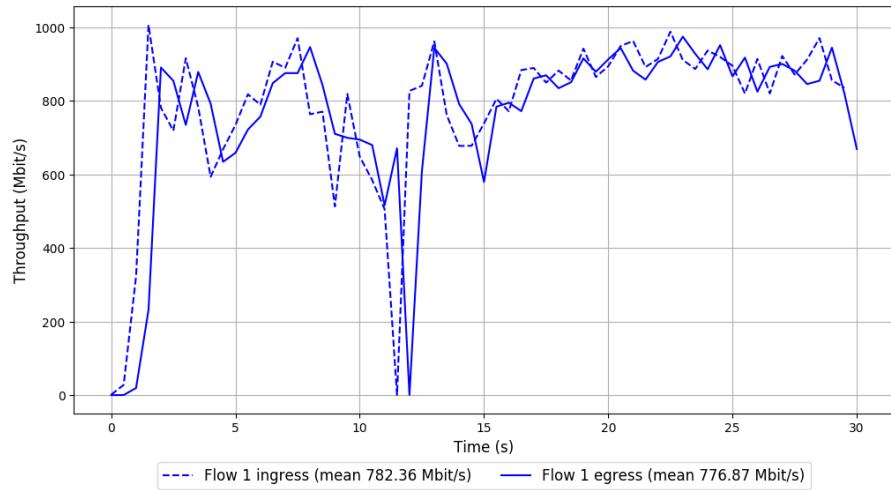


```
Run 2: Statistics of FillP
```

```
Start at: 2019-03-26 19:39:07
End at: 2019-03-26 19:39:37
Local clock offset: 28.162 ms
Remote clock offset: 27.945 ms

# Below is generated by plot.py at 2019-03-26 22:06:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 776.87 Mbit/s
95th percentile per-packet one-way delay: 138.592 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 776.87 Mbit/s
95th percentile per-packet one-way delay: 138.592 ms
Loss rate: 1.28%
```

Run 2: Report of FillP — Data Link

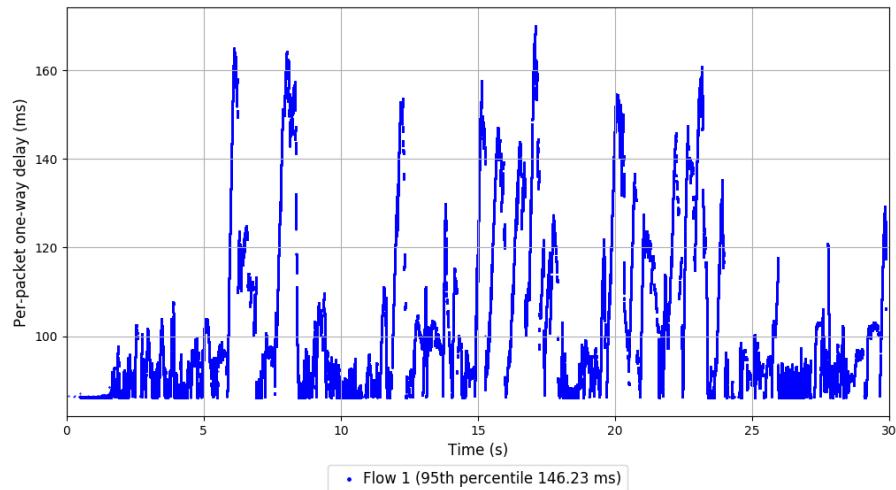
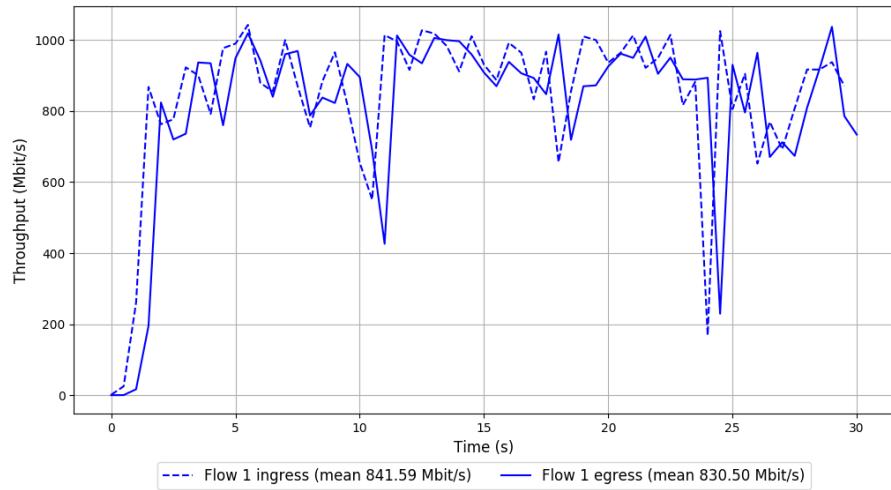


```
Run 3: Statistics of FillP
```

```
Start at: 2019-03-26 20:10:17
End at: 2019-03-26 20:10:47
Local clock offset: 17.038 ms
Remote clock offset: 16.839 ms

# Below is generated by plot.py at 2019-03-26 22:07:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 830.50 Mbit/s
95th percentile per-packet one-way delay: 146.228 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 830.50 Mbit/s
95th percentile per-packet one-way delay: 146.228 ms
Loss rate: 1.89%
```

Run 3: Report of FillP — Data Link

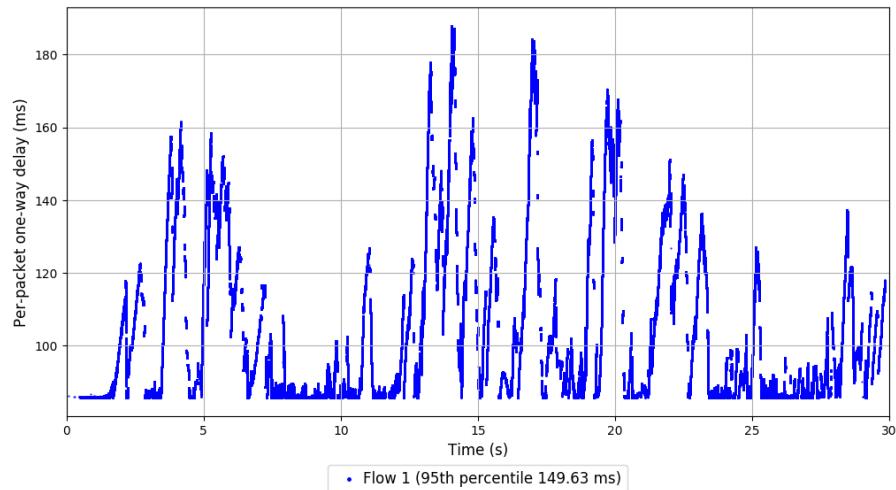
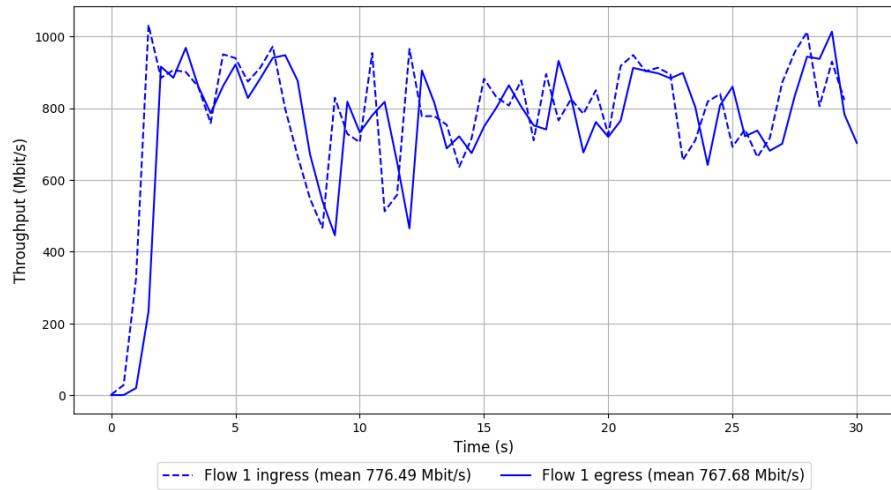


```
Run 4: Statistics of FillP
```

```
Start at: 2019-03-26 20:41:20
End at: 2019-03-26 20:41:50
Local clock offset: 6.105 ms
Remote clock offset: 8.757 ms

# Below is generated by plot.py at 2019-03-26 22:07:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 767.68 Mbit/s
95th percentile per-packet one-way delay: 149.635 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 767.68 Mbit/s
95th percentile per-packet one-way delay: 149.635 ms
Loss rate: 1.71%
```

Run 4: Report of FillP — Data Link

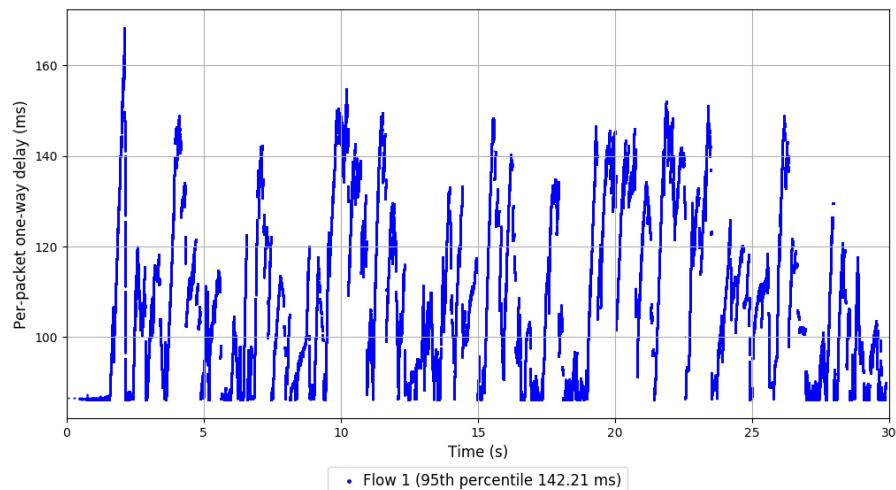
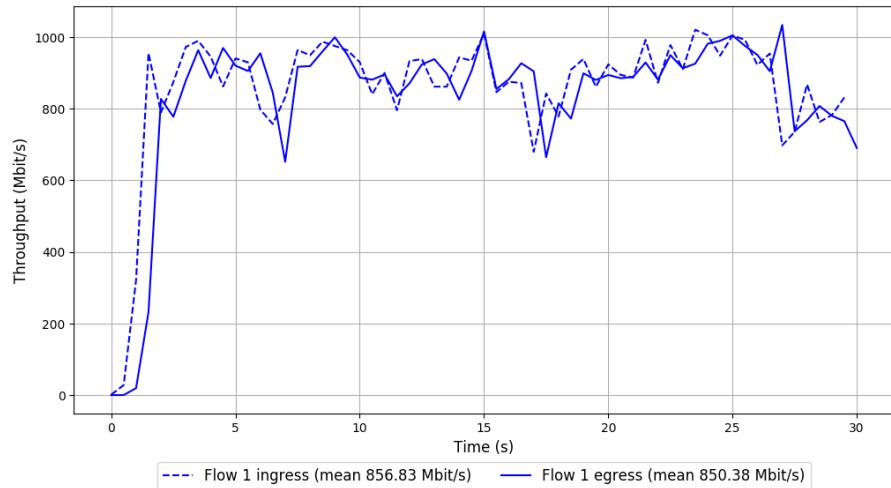


```
Run 5: Statistics of FillP
```

```
Start at: 2019-03-26 21:12:28
End at: 2019-03-26 21:12:58
Local clock offset: 2.59 ms
Remote clock offset: 4.82 ms

# Below is generated by plot.py at 2019-03-26 22:07:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 850.38 Mbit/s
95th percentile per-packet one-way delay: 142.211 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 850.38 Mbit/s
95th percentile per-packet one-way delay: 142.211 ms
Loss rate: 1.29%
```

Run 5: Report of FillP — Data Link

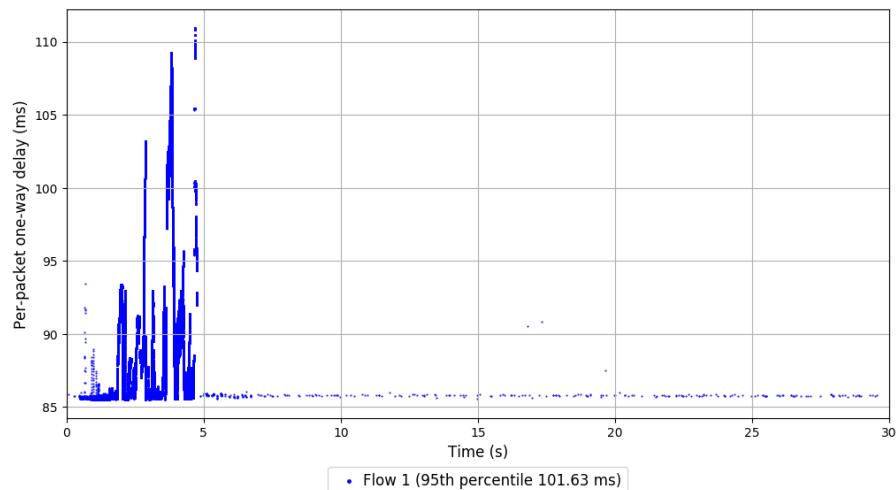
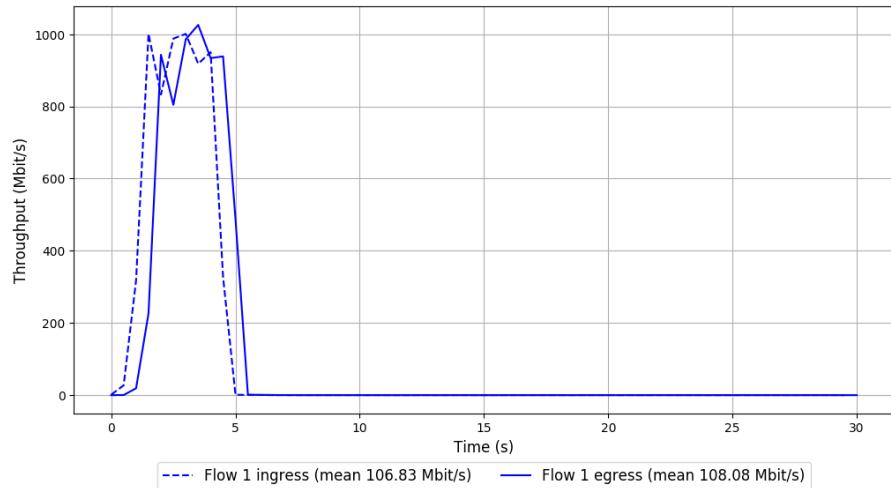


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-03-26 18:52:55
End at: 2019-03-26 18:53:25
Local clock offset: 9.962 ms
Remote clock offset: 9.693 ms

# Below is generated by plot.py at 2019-03-26 22:07:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 108.08 Mbit/s
95th percentile per-packet one-way delay: 101.626 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 108.08 Mbit/s
95th percentile per-packet one-way delay: 101.626 ms
Loss rate: 0.00%
```

Run 1: Report of FillP-Sheep — Data Link

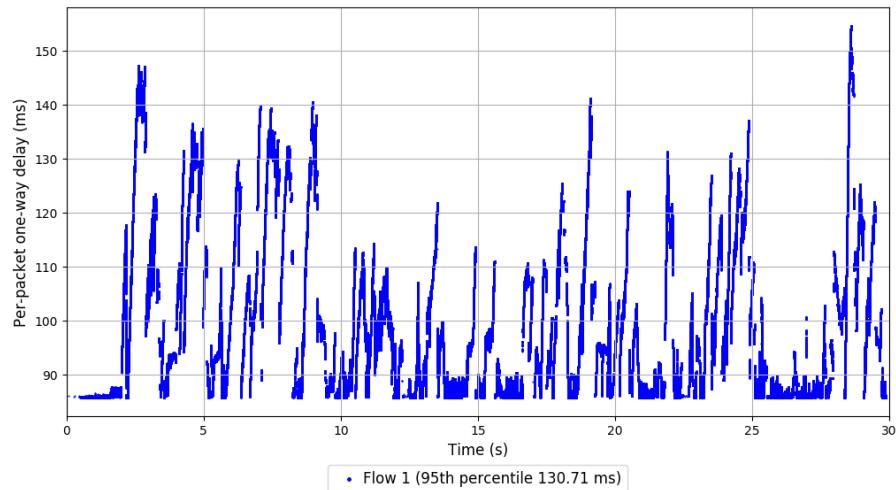
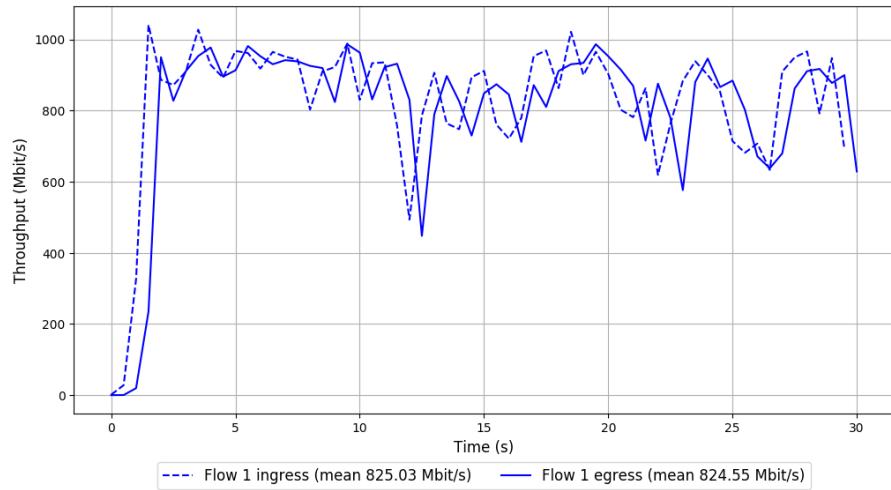


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-26 19:23:27
End at: 2019-03-26 19:23:57
Local clock offset: 24.034 ms
Remote clock offset: 23.966 ms

# Below is generated by plot.py at 2019-03-26 22:07:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 824.55 Mbit/s
95th percentile per-packet one-way delay: 130.708 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 824.55 Mbit/s
95th percentile per-packet one-way delay: 130.708 ms
Loss rate: 0.63%
```

Run 2: Report of FillP-Sheep — Data Link

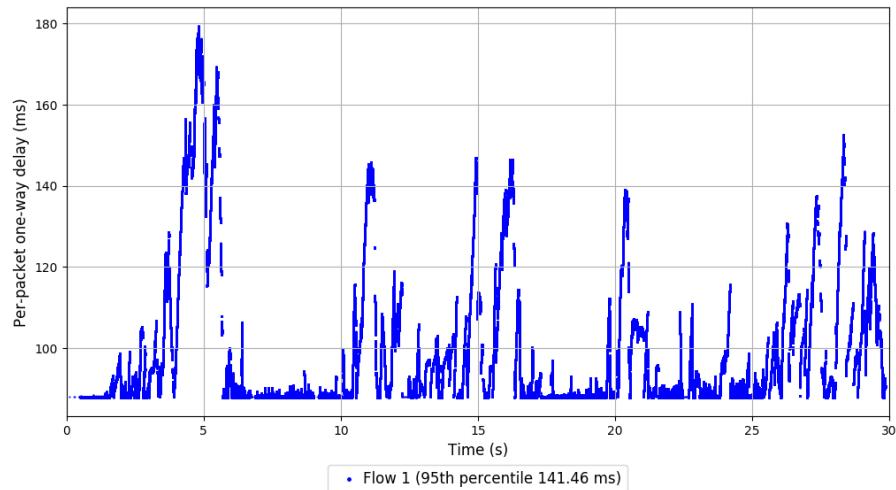
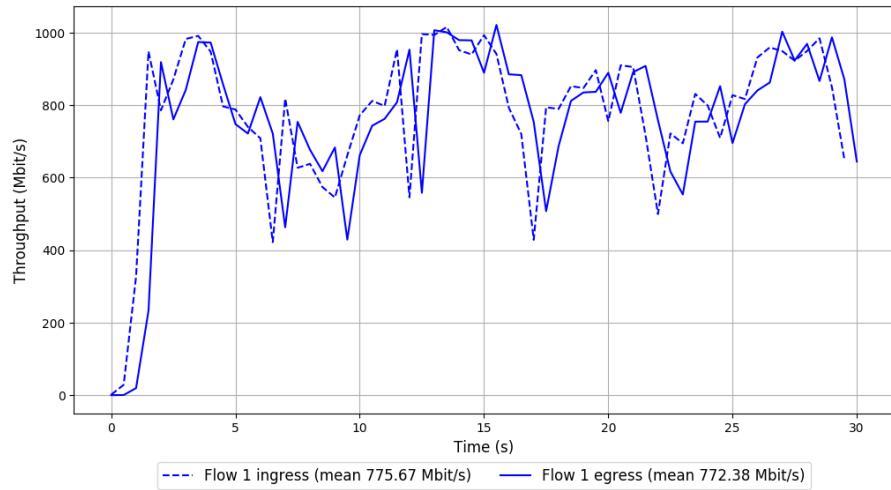


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-26 19:54:24
End at: 2019-03-26 19:54:54
Local clock offset: 43.491 ms
Remote clock offset: 41.982 ms

# Below is generated by plot.py at 2019-03-26 22:07:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 772.38 Mbit/s
95th percentile per-packet one-way delay: 141.463 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 772.38 Mbit/s
95th percentile per-packet one-way delay: 141.463 ms
Loss rate: 0.90%
```

Run 3: Report of FillP-Sheep — Data Link

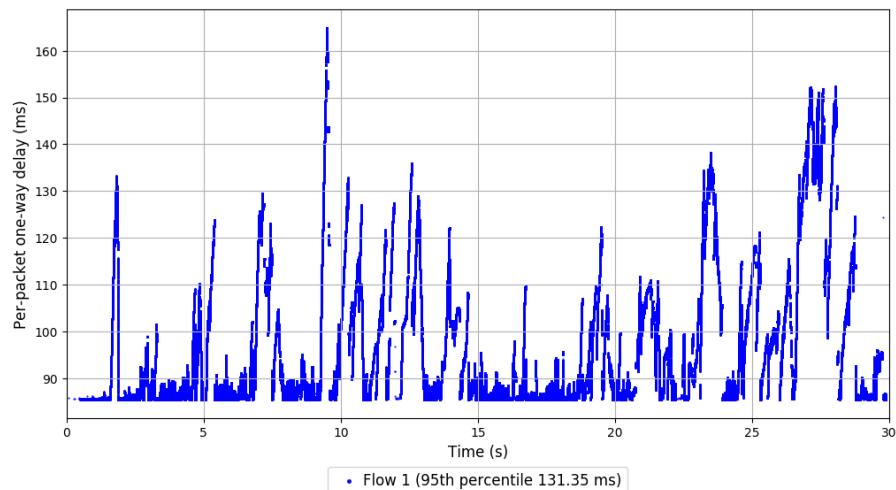
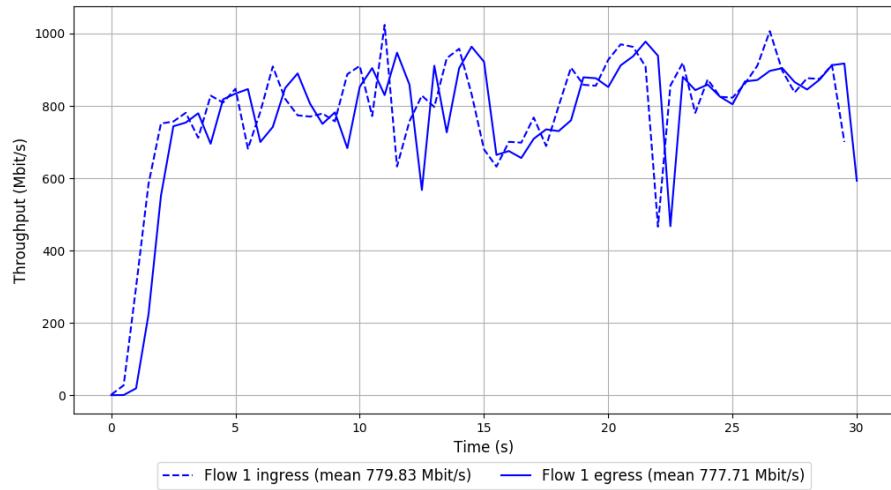


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-26 20:25:35
End at: 2019-03-26 20:26:05
Local clock offset: 21.045 ms
Remote clock offset: 21.139 ms

# Below is generated by plot.py at 2019-03-26 22:08:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 777.71 Mbit/s
95th percentile per-packet one-way delay: 131.355 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 777.71 Mbit/s
95th percentile per-packet one-way delay: 131.355 ms
Loss rate: 0.85%
```

Run 4: Report of FillP-Sheep — Data Link

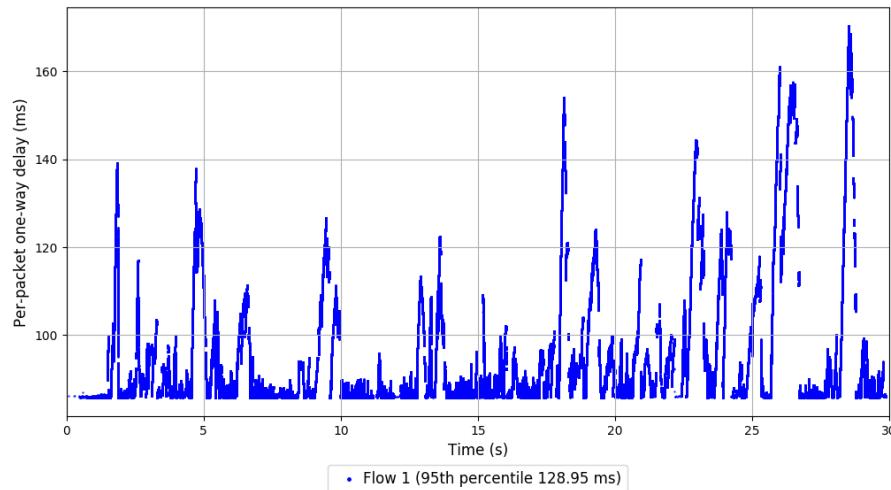
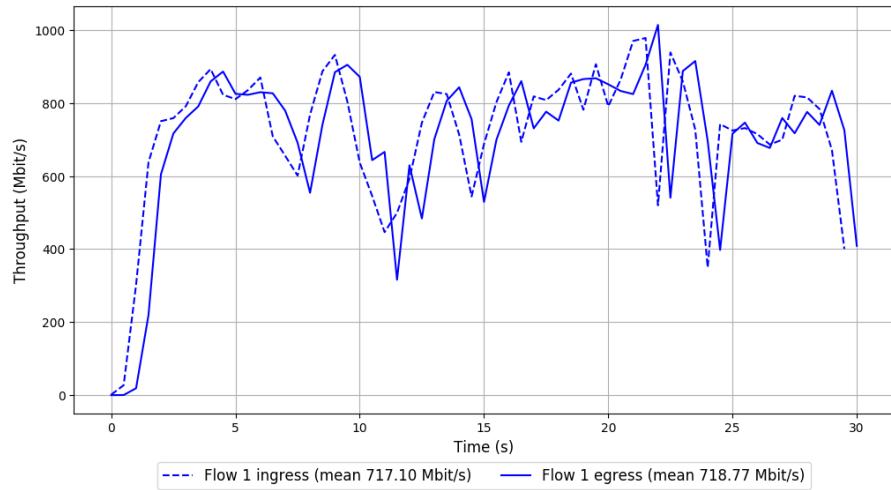


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-26 20:56:59
End at: 2019-03-26 20:57:29
Local clock offset: 4.471 ms
Remote clock offset: 9.524 ms

# Below is generated by plot.py at 2019-03-26 22:17:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 718.77 Mbit/s
95th percentile per-packet one-way delay: 128.946 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 718.77 Mbit/s
95th percentile per-packet one-way delay: 128.946 ms
Loss rate: 0.38%
```

Run 5: Report of FillP-Sheep — Data Link

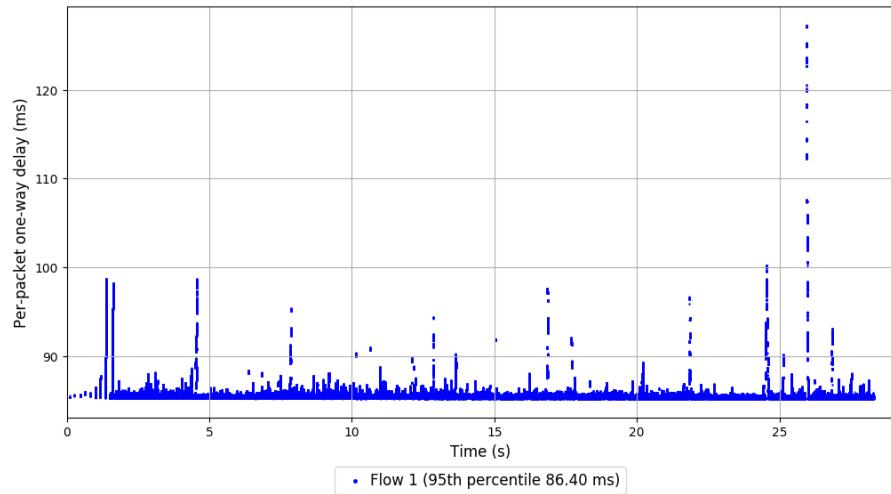
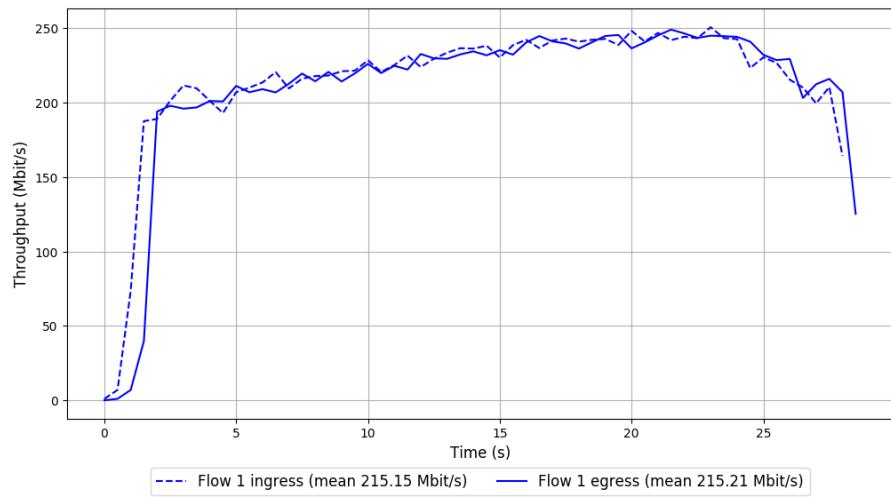


Run 1: Statistics of Indigo

```
Start at: 2019-03-26 18:51:26
End at: 2019-03-26 18:51:56
Local clock offset: 6.686 ms
Remote clock offset: 6.825 ms

# Below is generated by plot.py at 2019-03-26 22:17:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.21 Mbit/s
95th percentile per-packet one-way delay: 86.396 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 215.21 Mbit/s
95th percentile per-packet one-way delay: 86.396 ms
Loss rate: 0.58%
```

Run 1: Report of Indigo — Data Link

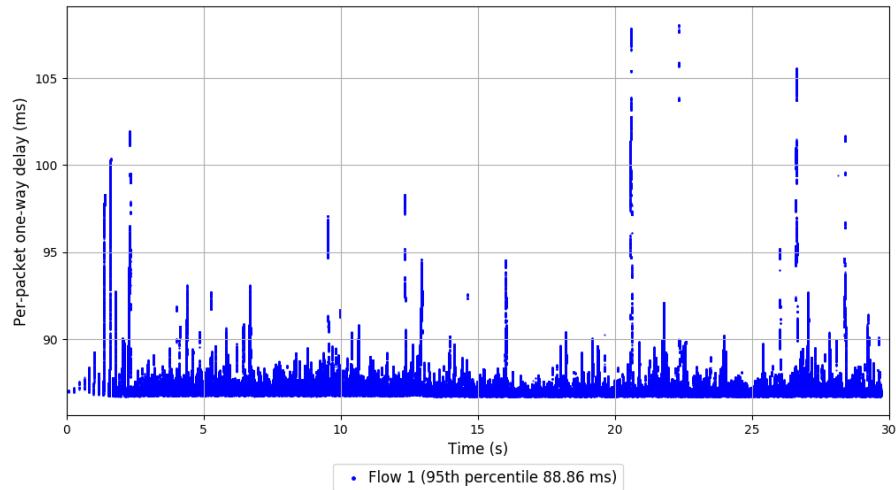
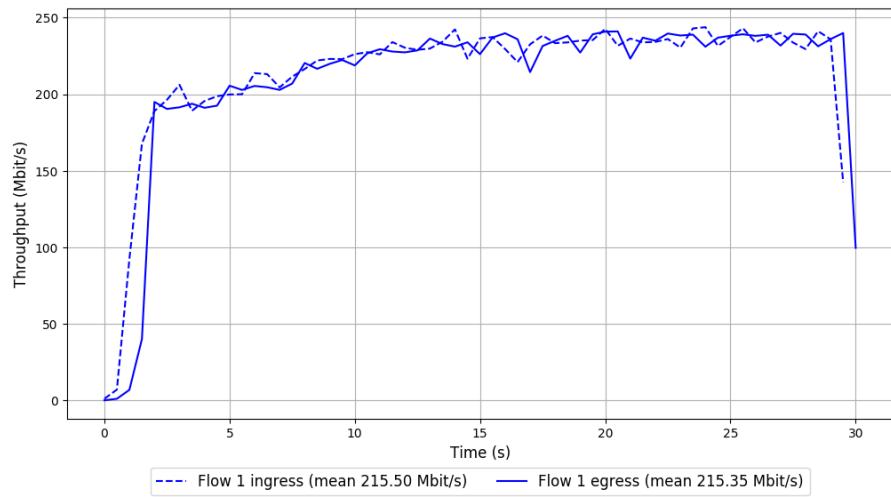


Run 2: Statistics of Indigo

```
Start at: 2019-03-26 19:21:58
End at: 2019-03-26 19:22:28
Local clock offset: 26.565 ms
Remote clock offset: 25.607 ms

# Below is generated by plot.py at 2019-03-26 22:17:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.35 Mbit/s
95th percentile per-packet one-way delay: 88.857 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 215.35 Mbit/s
95th percentile per-packet one-way delay: 88.857 ms
Loss rate: 0.65%
```

Run 2: Report of Indigo — Data Link

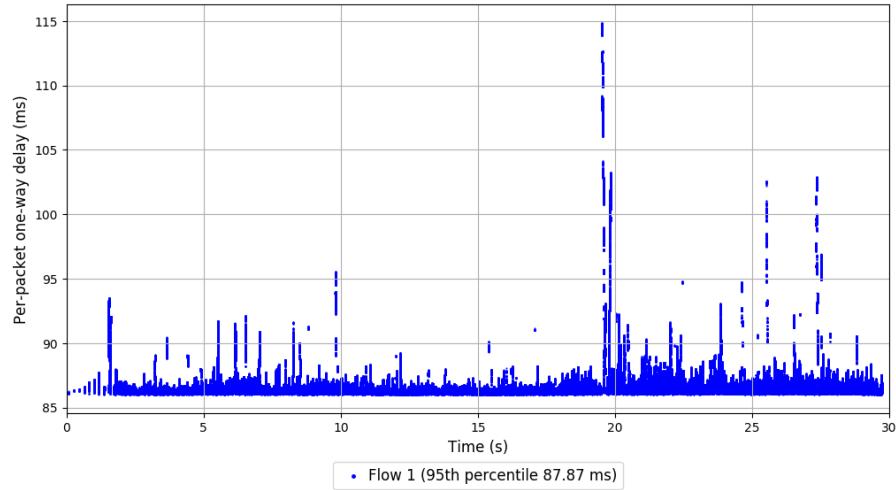
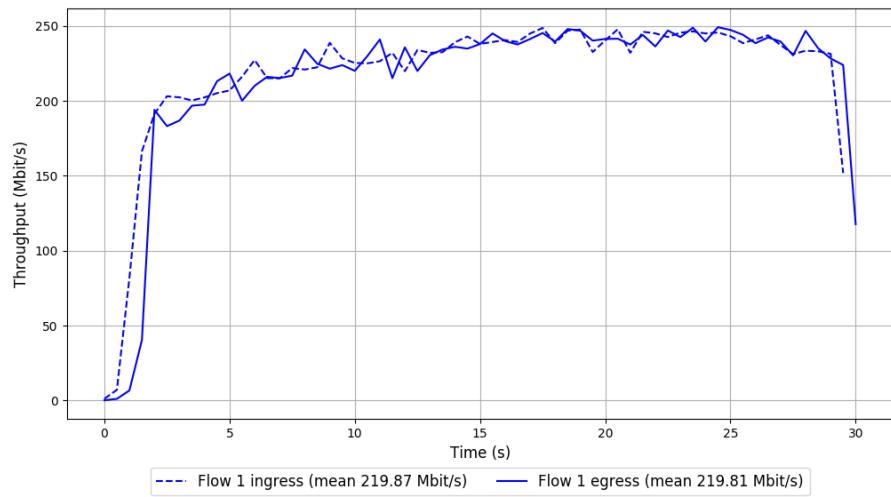


Run 3: Statistics of Indigo

```
Start at: 2019-03-26 19:52:54
End at: 2019-03-26 19:53:24
Local clock offset: 43.897 ms
Remote clock offset: 43.04 ms

# Below is generated by plot.py at 2019-03-26 22:17:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.81 Mbit/s
95th percentile per-packet one-way delay: 87.867 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 219.81 Mbit/s
95th percentile per-packet one-way delay: 87.867 ms
Loss rate: 0.60%
```

Run 3: Report of Indigo — Data Link

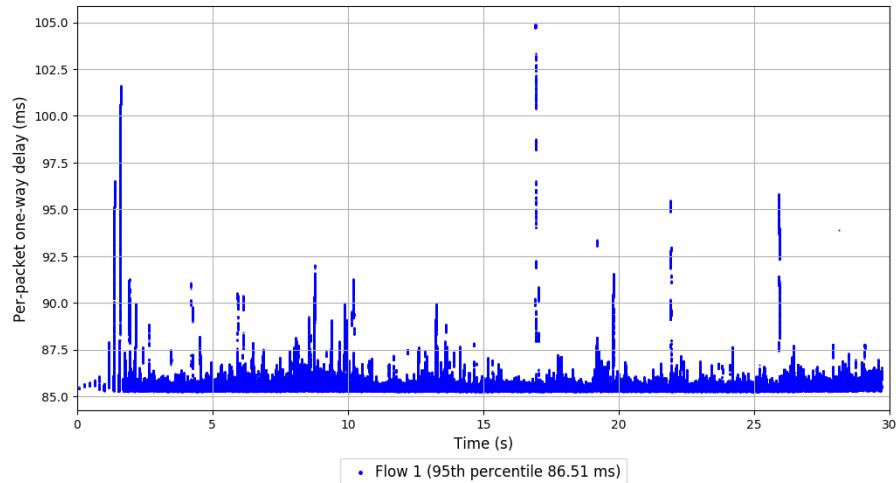
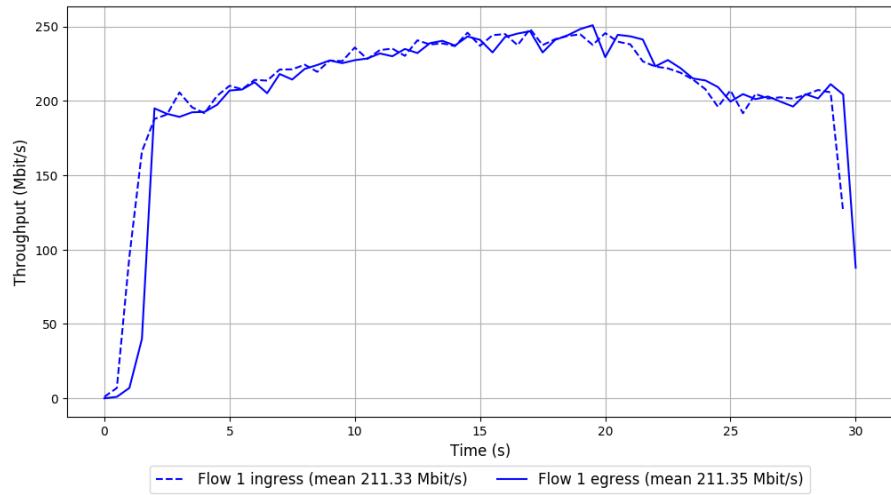


Run 4: Statistics of Indigo

```
Start at: 2019-03-26 20:23:58
End at: 2019-03-26 20:24:28
Local clock offset: 20.118 ms
Remote clock offset: 20.335 ms

# Below is generated by plot.py at 2019-03-26 22:17:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.35 Mbit/s
95th percentile per-packet one-way delay: 86.514 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 211.35 Mbit/s
95th percentile per-packet one-way delay: 86.514 ms
Loss rate: 0.58%
```

Run 4: Report of Indigo — Data Link

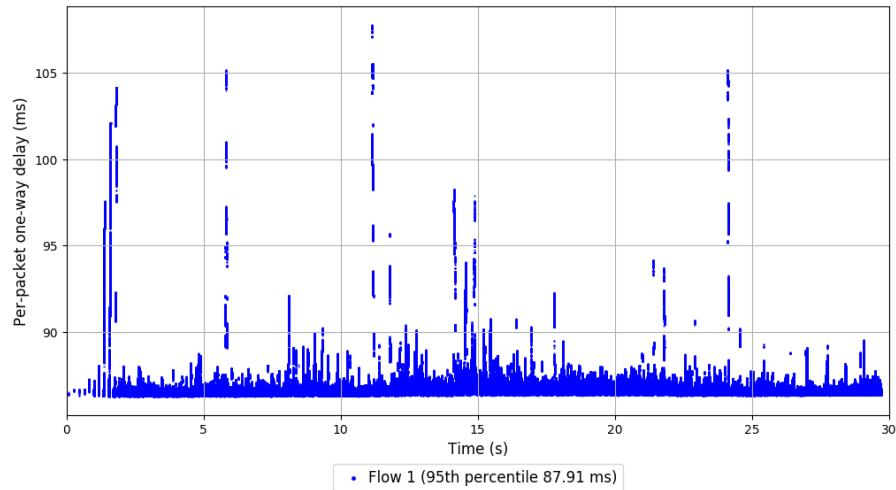
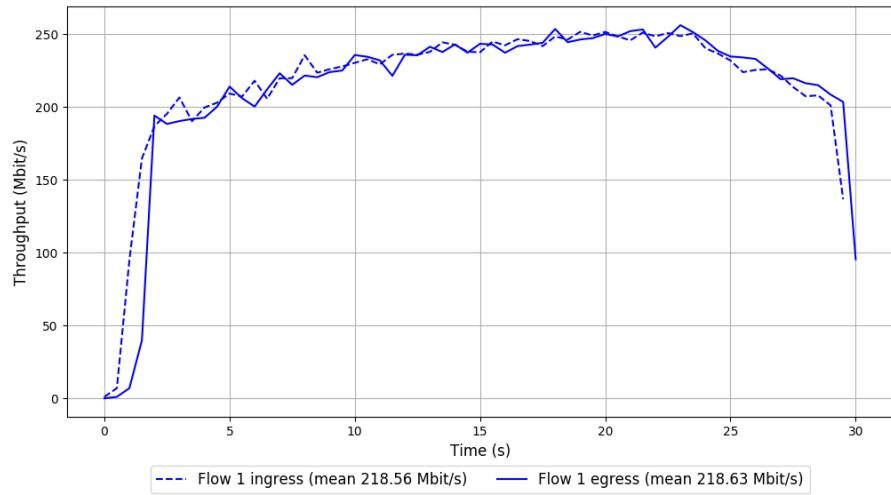


Run 5: Statistics of Indigo

```
Start at: 2019-03-26 20:55:26
End at: 2019-03-26 20:55:56
Local clock offset: 4.82 ms
Remote clock offset: 9.225 ms

# Below is generated by plot.py at 2019-03-26 22:17:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.63 Mbit/s
95th percentile per-packet one-way delay: 87.908 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 218.63 Mbit/s
95th percentile per-packet one-way delay: 87.908 ms
Loss rate: 0.55%
```

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

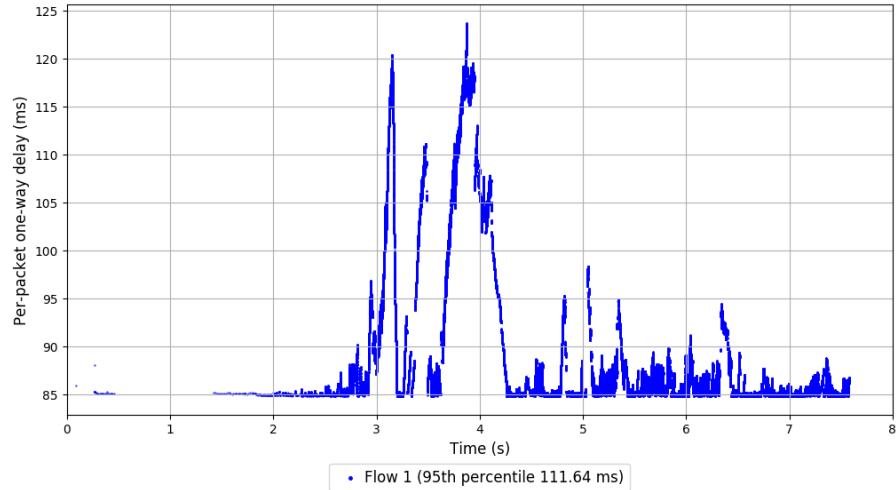
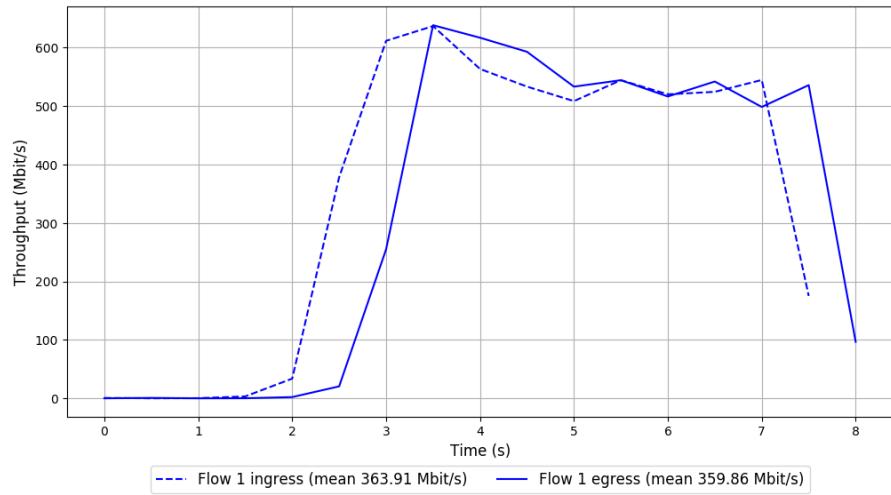
Start at: 2019-03-26 18:49:02

End at: 2019-03-26 18:49:32

Local clock offset: 5.913 ms

Remote clock offset: 6.141 ms

Run 1: Report of Indigo-MusesC3 — Data Link

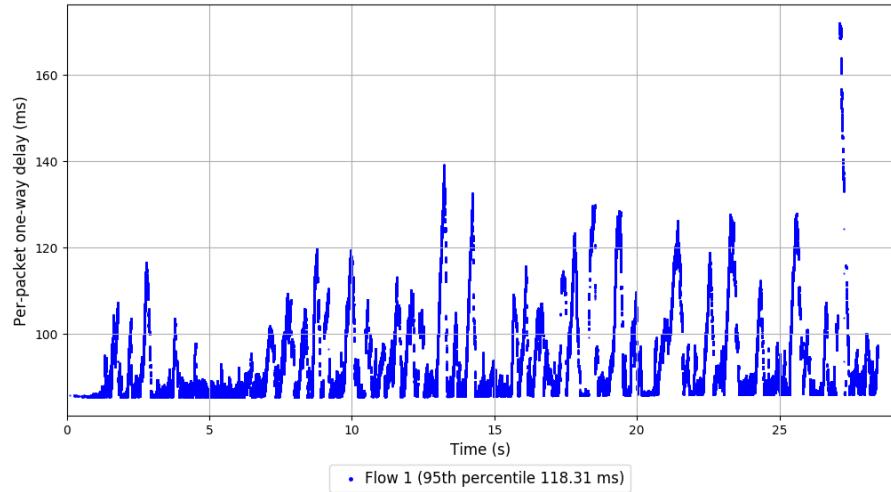
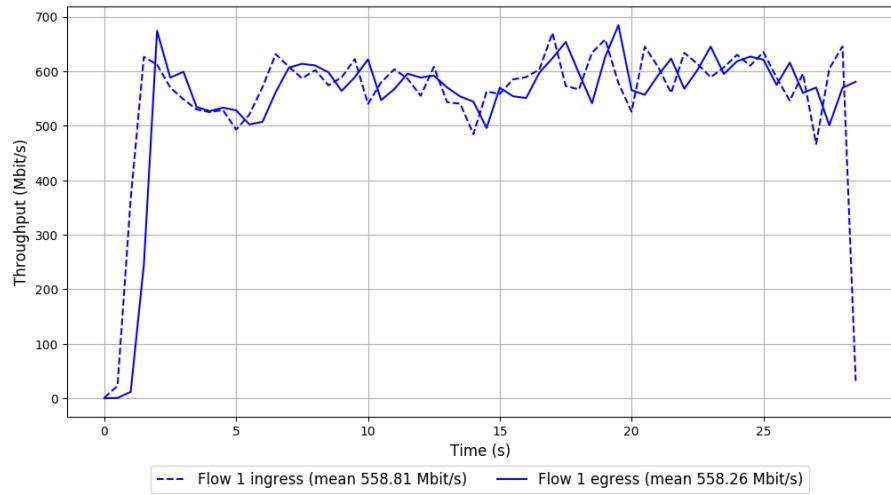


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-26 19:19:12
End at: 2019-03-26 19:19:42
Local clock offset: 28.849 ms
Remote clock offset: 29.026 ms

# Below is generated by plot.py at 2019-03-26 22:18:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.26 Mbit/s
95th percentile per-packet one-way delay: 118.306 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 558.26 Mbit/s
95th percentile per-packet one-way delay: 118.306 ms
Loss rate: 0.72%
```

Run 2: Report of Indigo-MusesC3 — Data Link

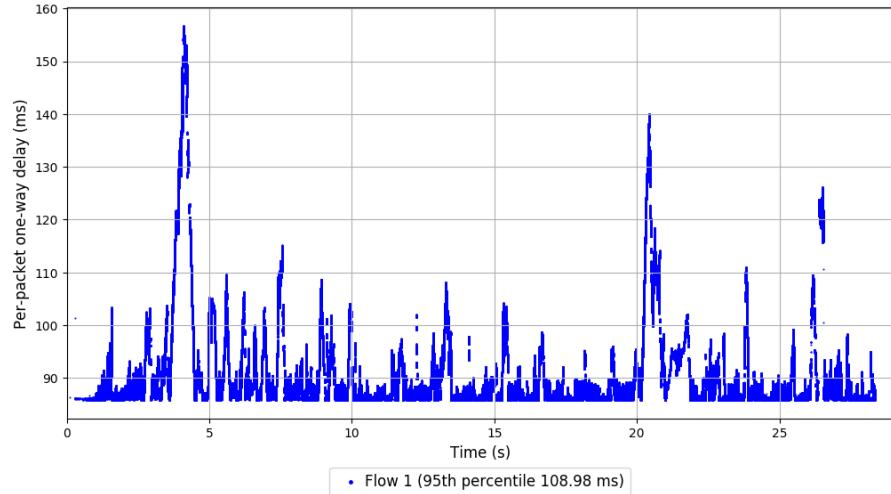
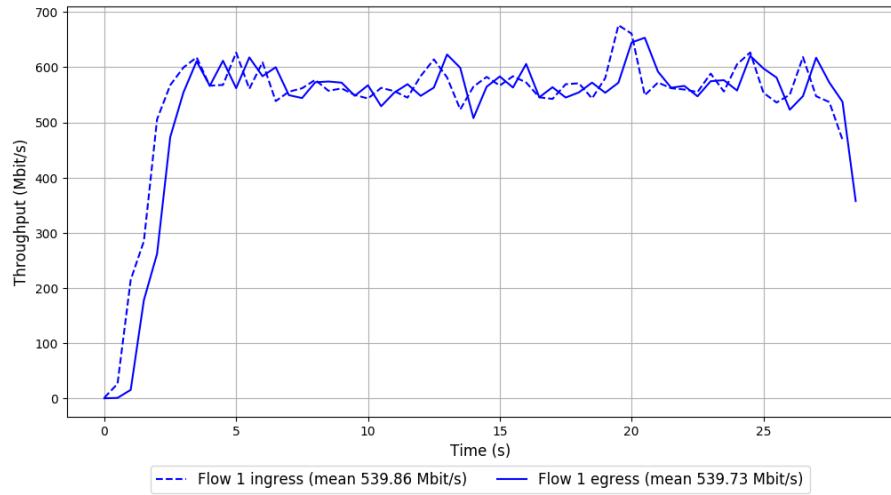


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-26 19:50:09
End at: 2019-03-26 19:50:39
Local clock offset: 40.571 ms
Remote clock offset: 39.753 ms

# Below is generated by plot.py at 2019-03-26 22:19:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 539.73 Mbit/s
95th percentile per-packet one-way delay: 108.980 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 539.73 Mbit/s
95th percentile per-packet one-way delay: 108.980 ms
Loss rate: 0.63%
```

Run 3: Report of Indigo-MusesC3 — Data Link

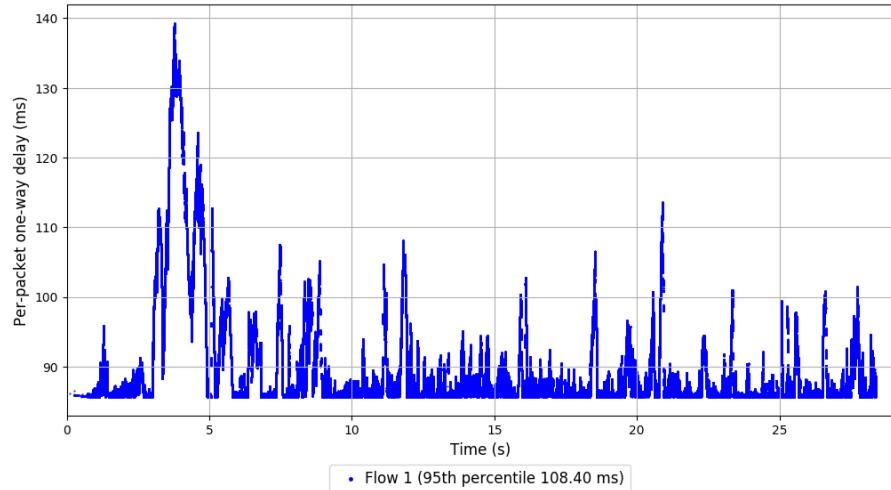
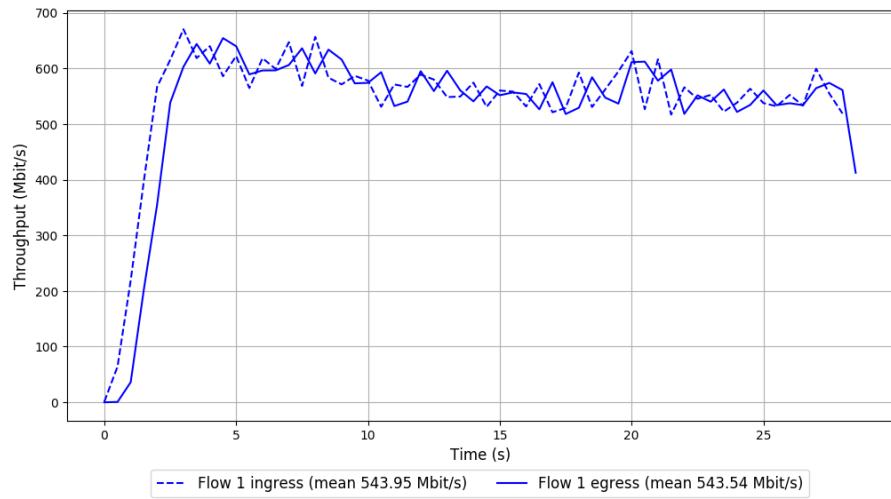


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-26 20:21:13
End at: 2019-03-26 20:21:43
Local clock offset: 19.27 ms
Remote clock offset: 19.077 ms

# Below is generated by plot.py at 2019-03-26 22:23:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 543.54 Mbit/s
95th percentile per-packet one-way delay: 108.398 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 543.54 Mbit/s
95th percentile per-packet one-way delay: 108.398 ms
Loss rate: 0.68%
```

Run 4: Report of Indigo-MusesC3 — Data Link

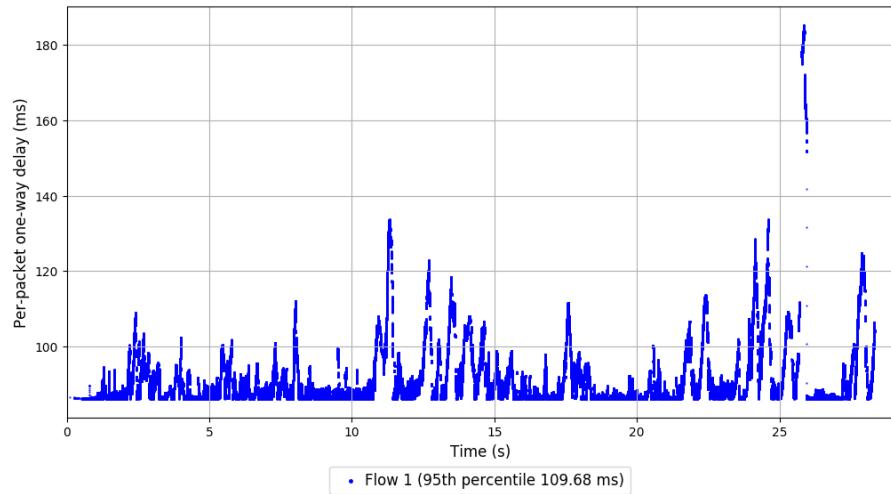
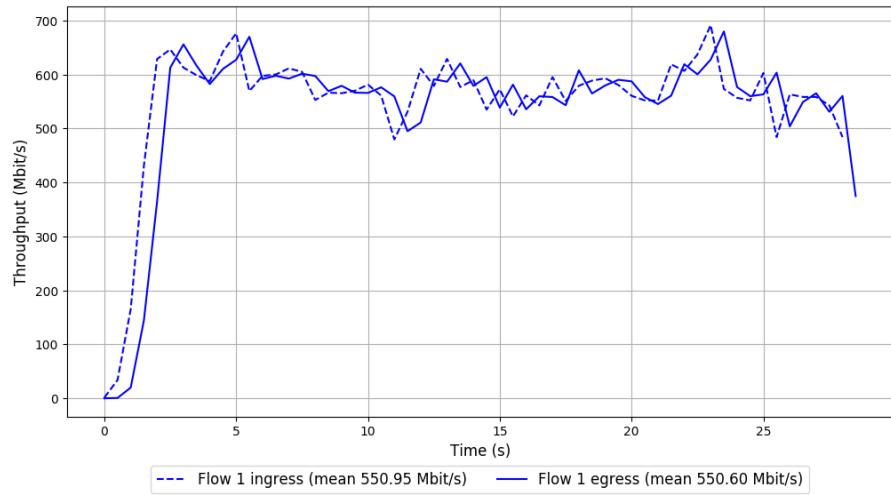


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-26 20:52:35
End at: 2019-03-26 20:53:05
Local clock offset: 4.64 ms
Remote clock offset: 8.711 ms

# Below is generated by plot.py at 2019-03-26 22:23:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 550.60 Mbit/s
95th percentile per-packet one-way delay: 109.680 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 550.60 Mbit/s
95th percentile per-packet one-way delay: 109.680 ms
Loss rate: 0.67%
```

Run 5: Report of Indigo-MusesC3 — Data Link

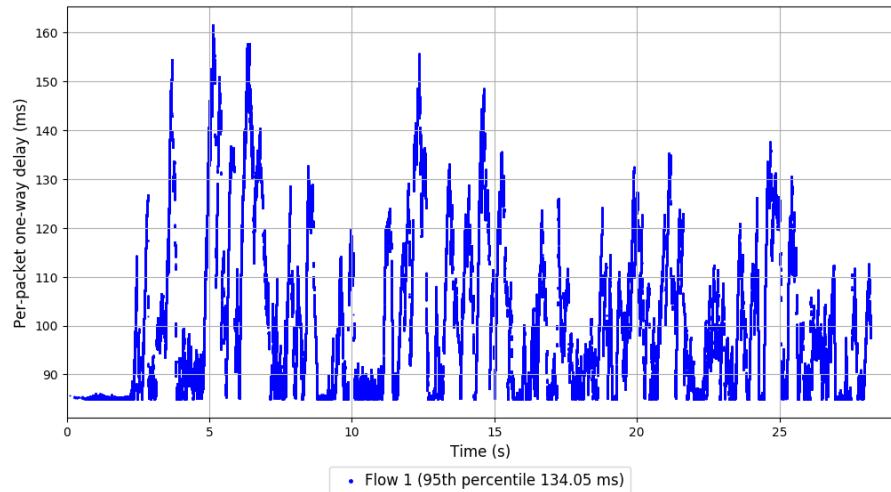
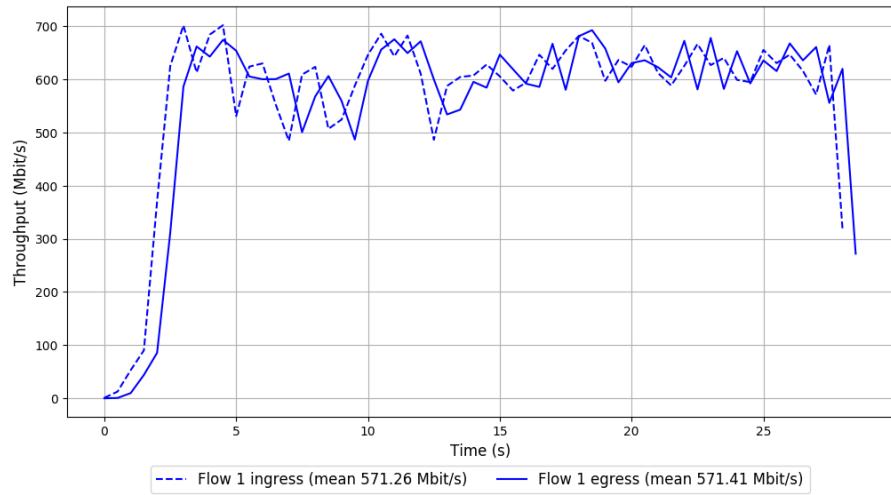


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-03-26 19:13:01
End at: 2019-03-26 19:13:31
Local clock offset: 19.272 ms
Remote clock offset: 19.671 ms

# Below is generated by plot.py at 2019-03-26 22:25:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 571.41 Mbit/s
95th percentile per-packet one-way delay: 134.047 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 571.41 Mbit/s
95th percentile per-packet one-way delay: 134.047 ms
Loss rate: 0.59%
```

Run 1: Report of Indigo-MusesC5 — Data Link

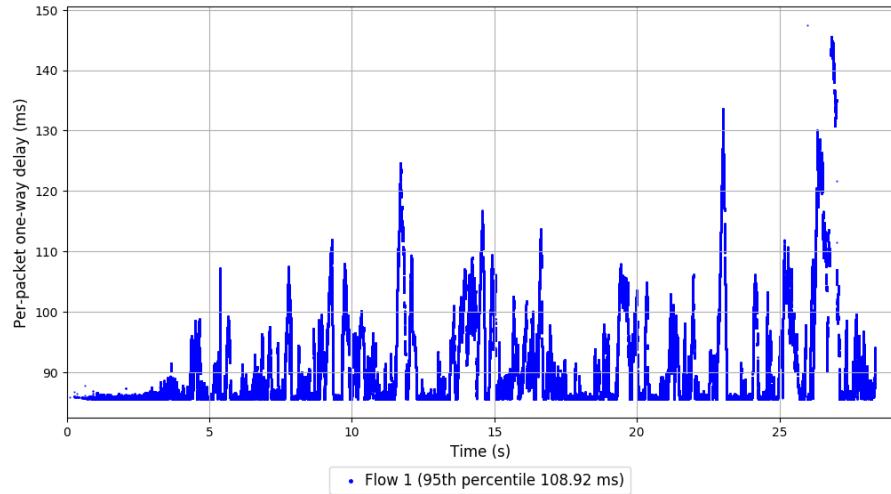
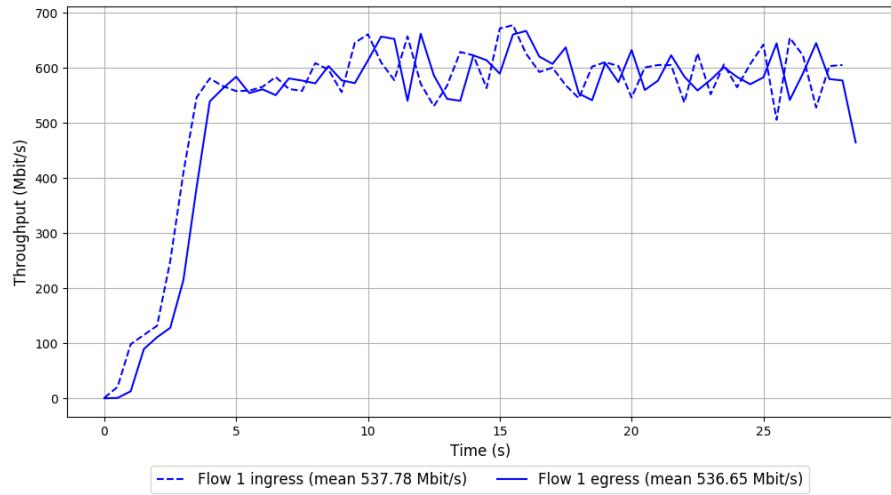


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-26 19:44:03
End at: 2019-03-26 19:44:33
Local clock offset: 33.227 ms
Remote clock offset: 32.963 ms

# Below is generated by plot.py at 2019-03-26 22:25:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 536.65 Mbit/s
95th percentile per-packet one-way delay: 108.919 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 536.65 Mbit/s
95th percentile per-packet one-way delay: 108.919 ms
Loss rate: 0.82%
```

Run 2: Report of Indigo-MusesC5 — Data Link

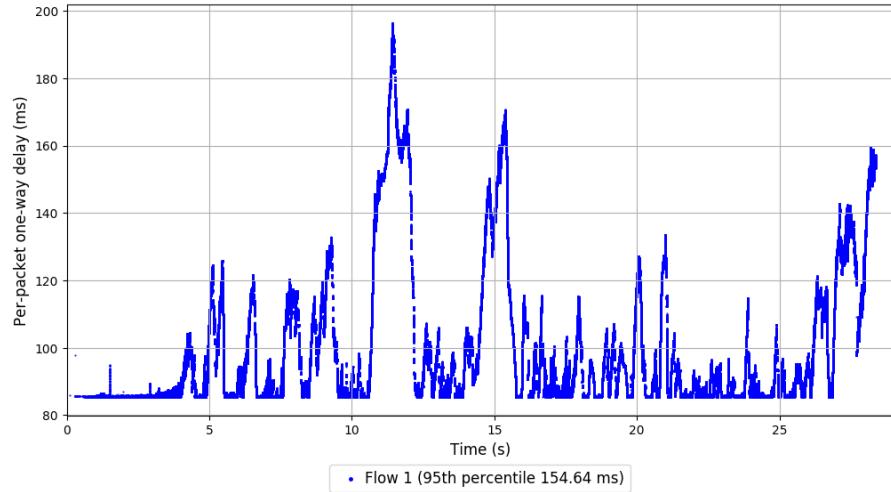
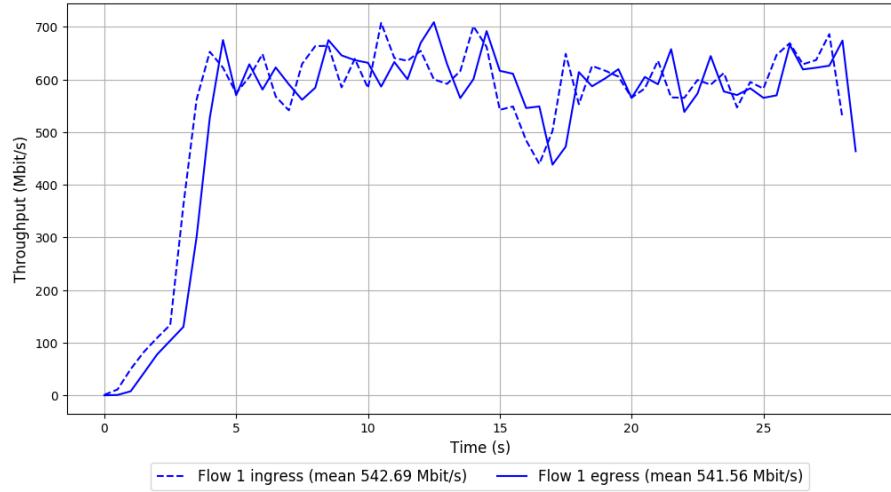


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-26 20:15:11
End at: 2019-03-26 20:15:41
Local clock offset: 16.836 ms
Remote clock offset: 17.11 ms

# Below is generated by plot.py at 2019-03-26 22:25:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 541.56 Mbit/s
95th percentile per-packet one-way delay: 154.644 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 541.56 Mbit/s
95th percentile per-packet one-way delay: 154.644 ms
Loss rate: 0.82%
```

Run 3: Report of Indigo-MusesC5 — Data Link

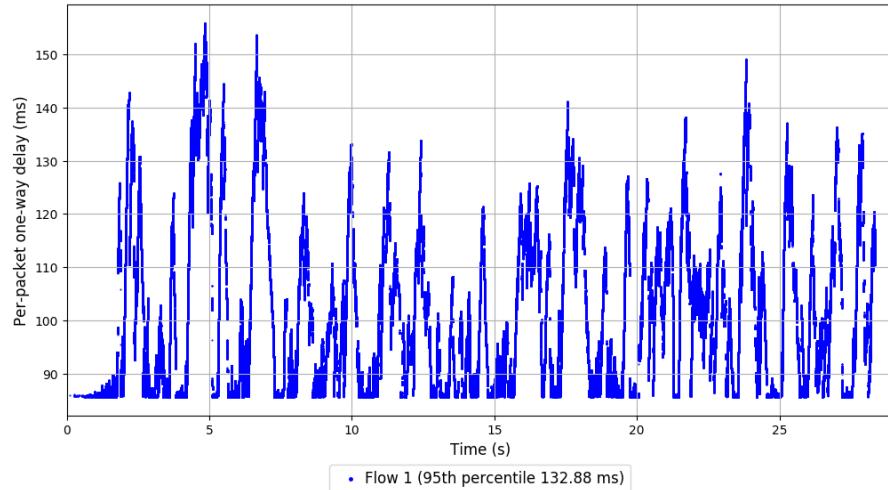
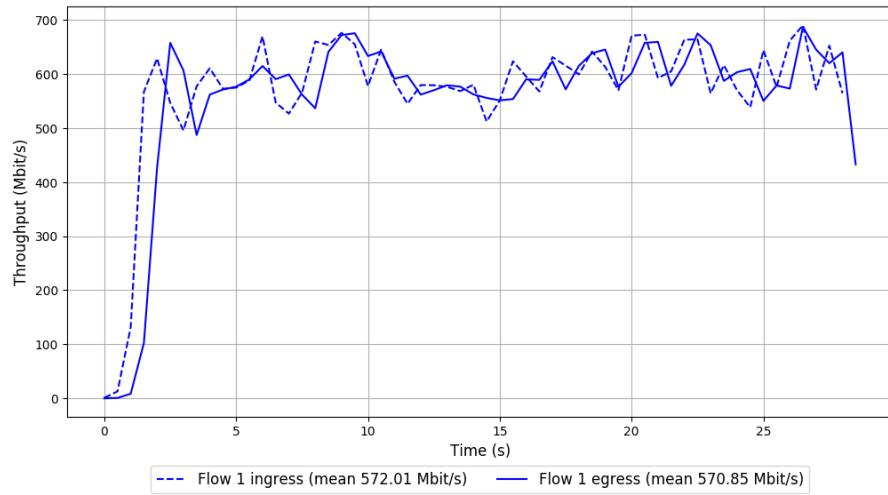


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-26 20:46:11
End at: 2019-03-26 20:46:41
Local clock offset: 4.917 ms
Remote clock offset: 8.196 ms

# Below is generated by plot.py at 2019-03-26 22:27:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 570.85 Mbit/s
95th percentile per-packet one-way delay: 132.884 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 570.85 Mbit/s
95th percentile per-packet one-way delay: 132.884 ms
Loss rate: 0.81%
```

Run 4: Report of Indigo-MusesC5 — Data Link

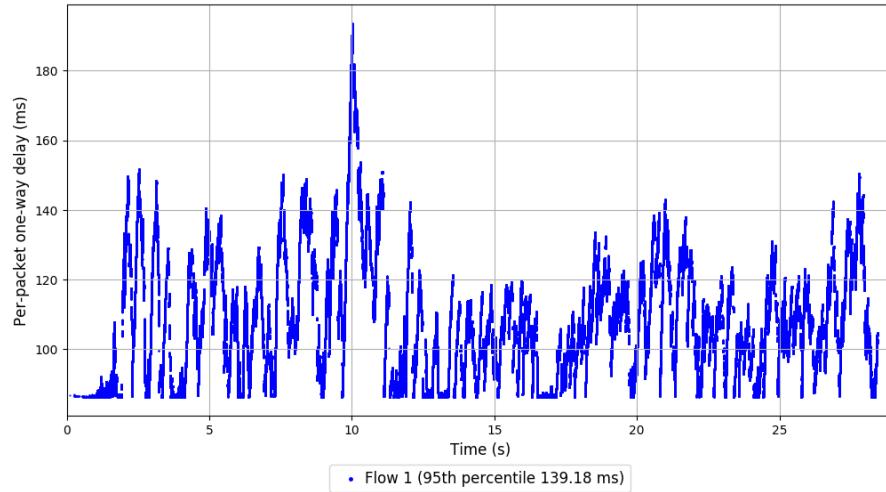
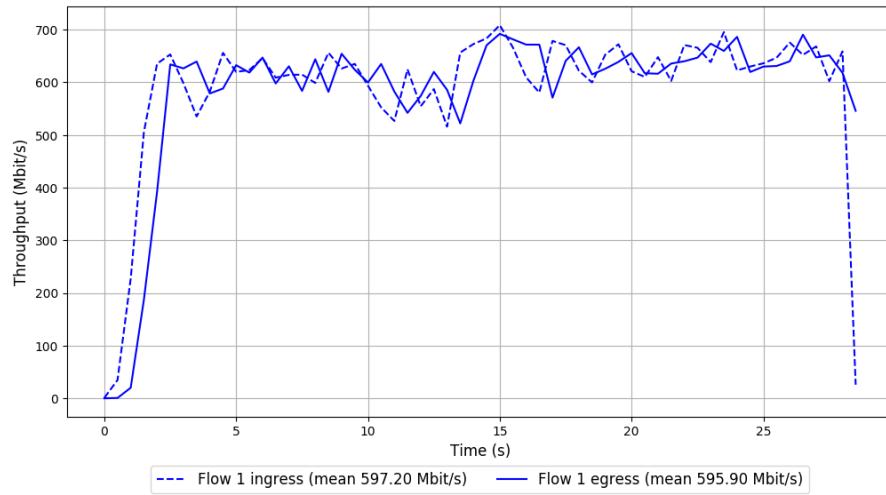


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-26 21:17:24
End at: 2019-03-26 21:17:54
Local clock offset: 2.168 ms
Remote clock offset: 4.055 ms

# Below is generated by plot.py at 2019-03-26 22:30:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 595.90 Mbit/s
95th percentile per-packet one-way delay: 139.178 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 595.90 Mbit/s
95th percentile per-packet one-way delay: 139.178 ms
Loss rate: 0.81%
```

Run 5: Report of Indigo-MusesC5 — Data Link

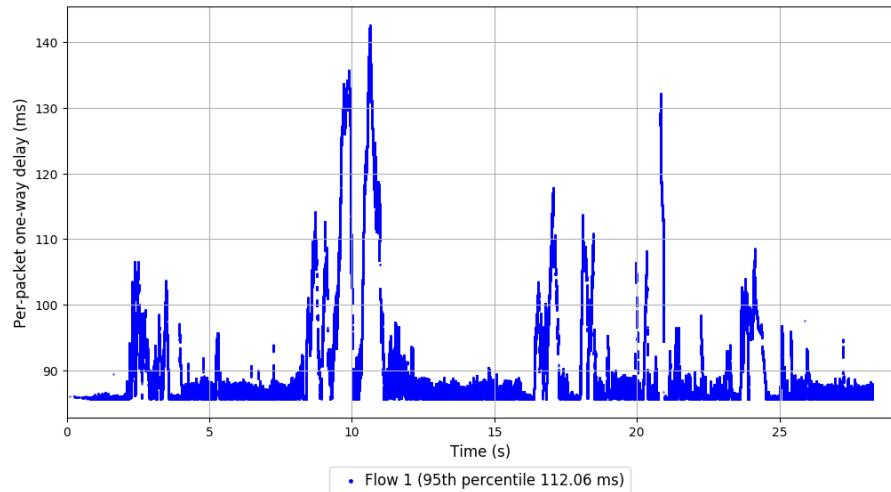
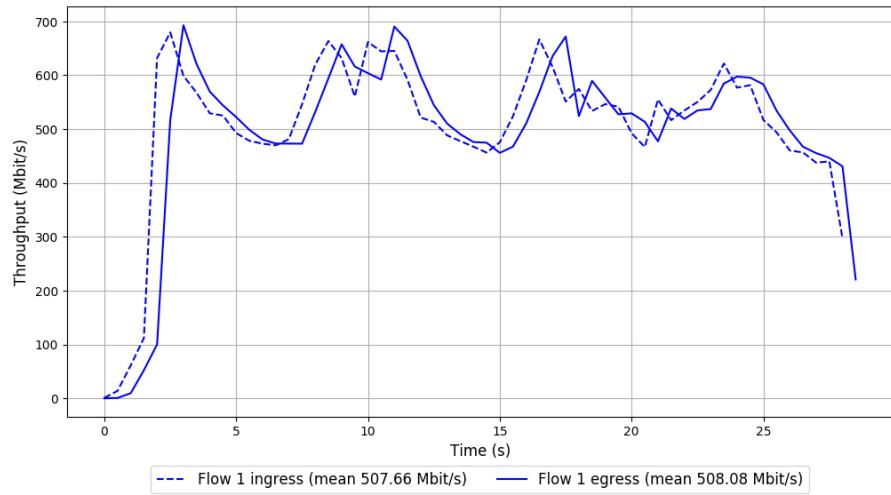


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-03-26 19:09:39
End at: 2019-03-26 19:10:09
Local clock offset: 16.003 ms
Remote clock offset: 15.873 ms

# Below is generated by plot.py at 2019-03-26 22:30:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 508.08 Mbit/s
95th percentile per-packet one-way delay: 112.058 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 508.08 Mbit/s
95th percentile per-packet one-way delay: 112.058 ms
Loss rate: 0.53%
```

Run 1: Report of Indigo-MusesD — Data Link

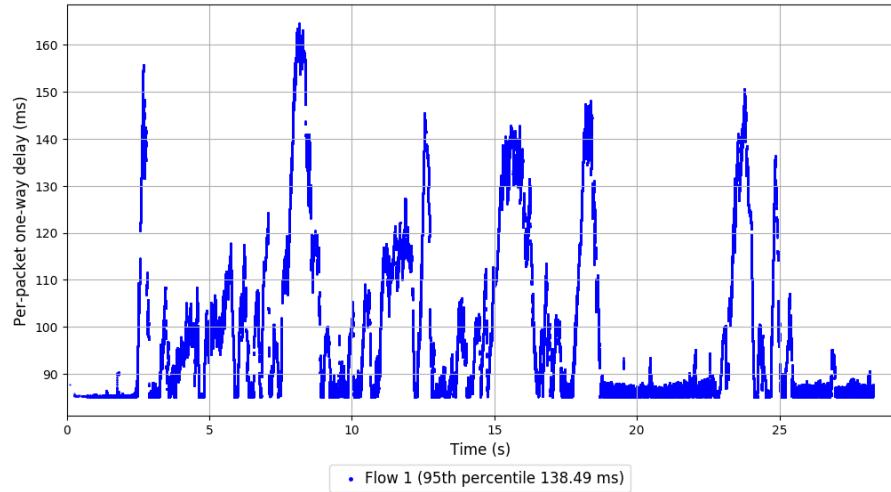
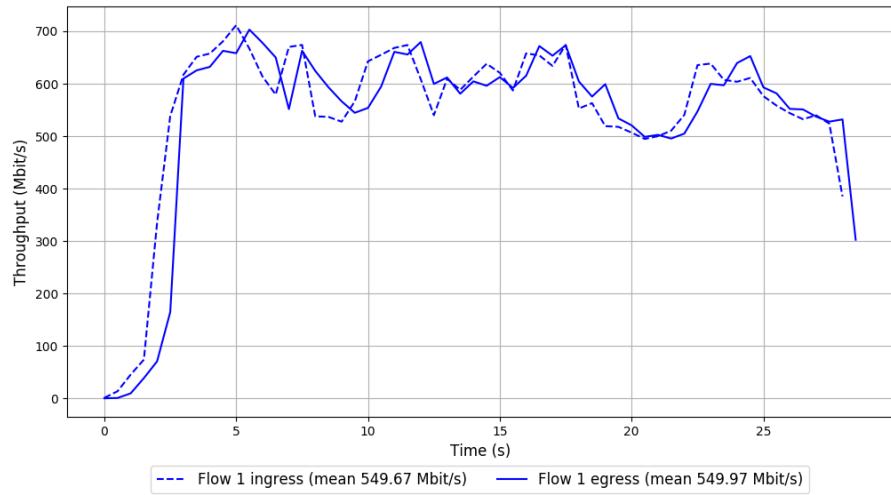


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-26 19:40:49
End at: 2019-03-26 19:41:19
Local clock offset: 29.323 ms
Remote clock offset: 29.471 ms

# Below is generated by plot.py at 2019-03-26 22:33:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 549.97 Mbit/s
95th percentile per-packet one-way delay: 138.490 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 549.97 Mbit/s
95th percentile per-packet one-way delay: 138.490 ms
Loss rate: 0.56%
```

Run 2: Report of Indigo-MusesD — Data Link

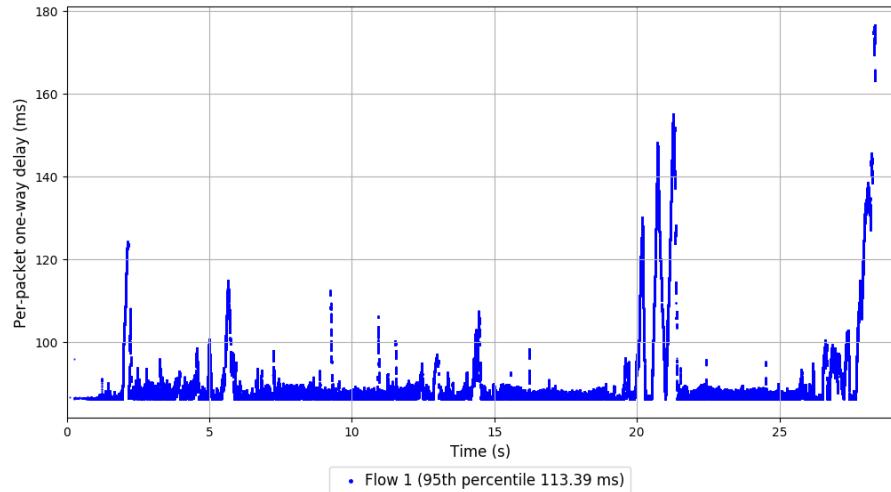
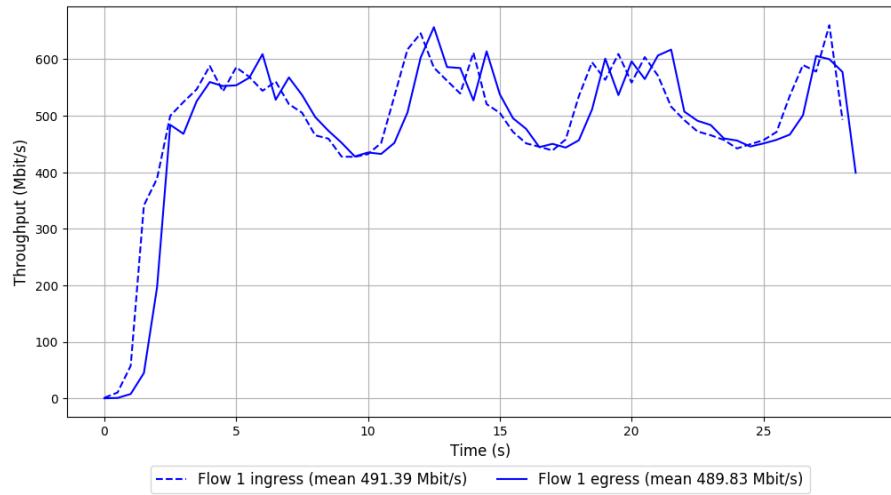


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-26 20:12:02
End at: 2019-03-26 20:12:32
Local clock offset: 17.139 ms
Remote clock offset: 16.731 ms

# Below is generated by plot.py at 2019-03-26 22:33:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 489.83 Mbit/s
95th percentile per-packet one-way delay: 113.387 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 489.83 Mbit/s
95th percentile per-packet one-way delay: 113.387 ms
Loss rate: 0.92%
```

Run 3: Report of Indigo-MusesD — Data Link

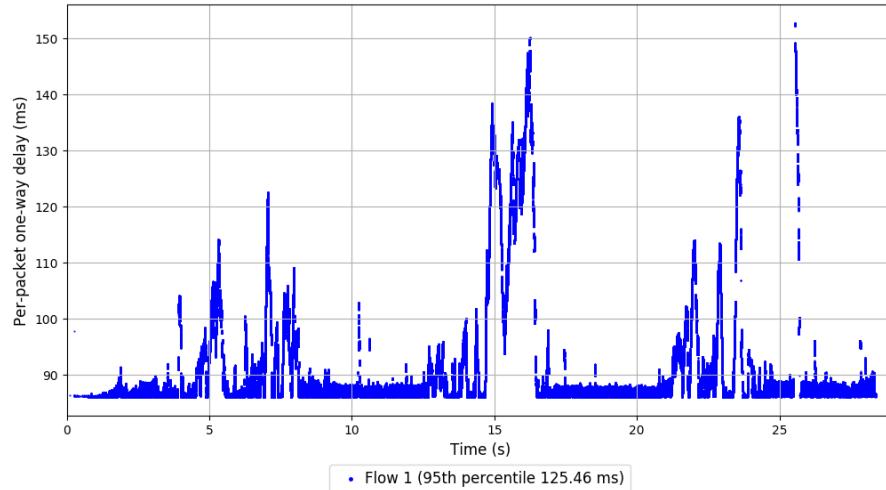
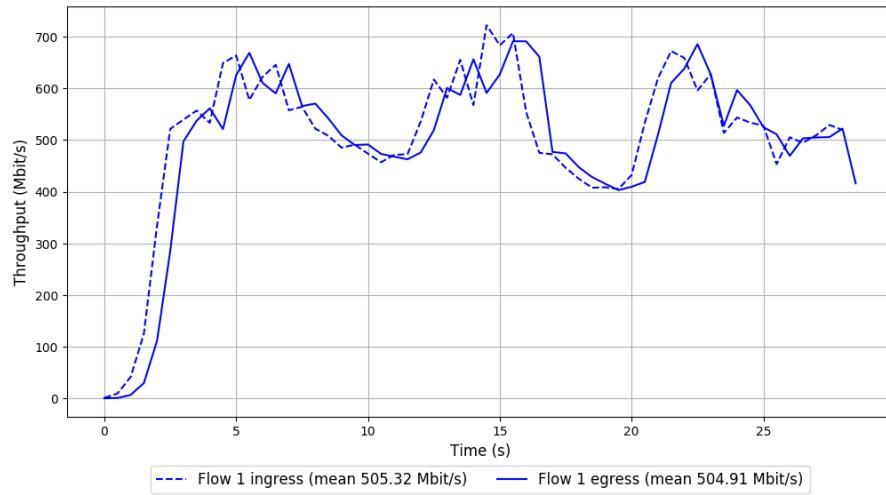


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-26 20:43:03
End at: 2019-03-26 20:43:33
Local clock offset: 6.042 ms
Remote clock offset: 8.402 ms

# Below is generated by plot.py at 2019-03-26 22:34:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 504.91 Mbit/s
95th percentile per-packet one-way delay: 125.462 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 504.91 Mbit/s
95th percentile per-packet one-way delay: 125.462 ms
Loss rate: 0.69%
```

Run 4: Report of Indigo-MusesD — Data Link

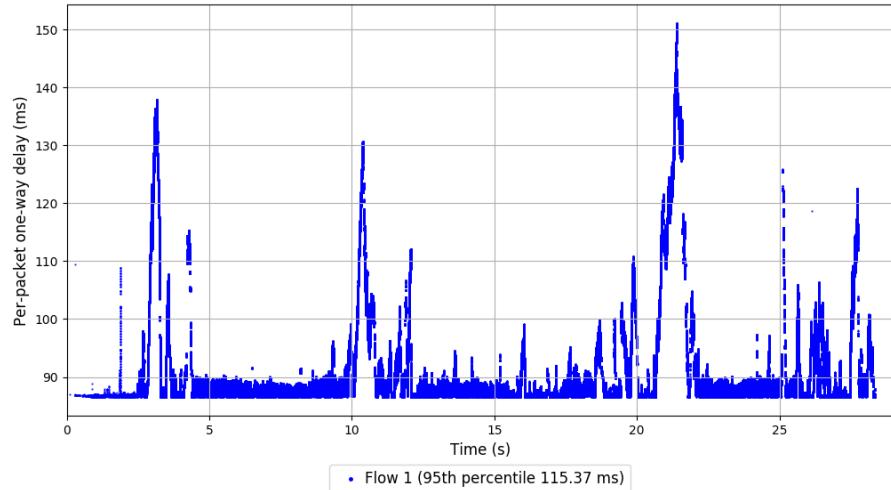
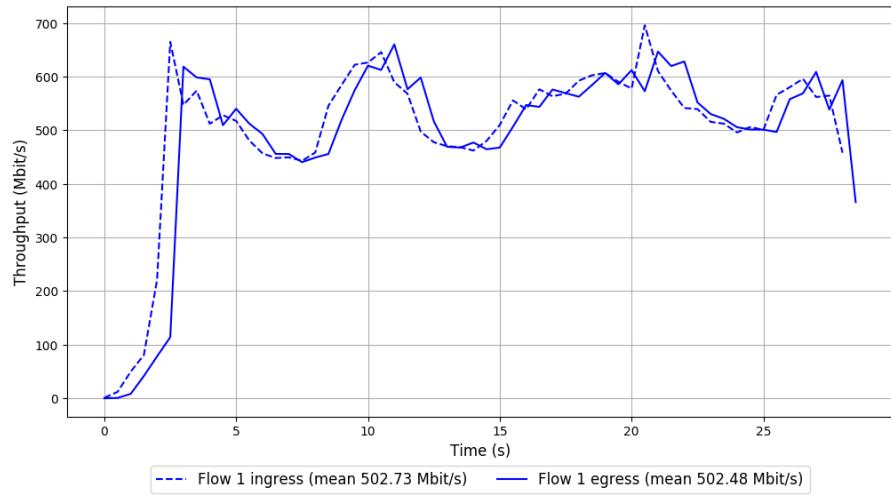


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-26 21:14:15
End at: 2019-03-26 21:14:45
Local clock offset: 2.48 ms
Remote clock offset: 4.449 ms

# Below is generated by plot.py at 2019-03-26 22:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 502.48 Mbit/s
95th percentile per-packet one-way delay: 115.370 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 502.48 Mbit/s
95th percentile per-packet one-way delay: 115.370 ms
Loss rate: 0.66%
```

Run 5: Report of Indigo-MusesD — Data Link

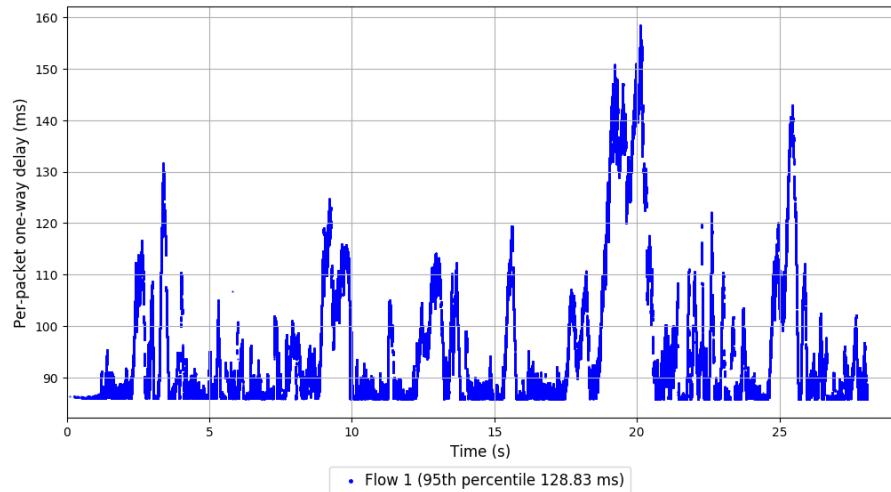
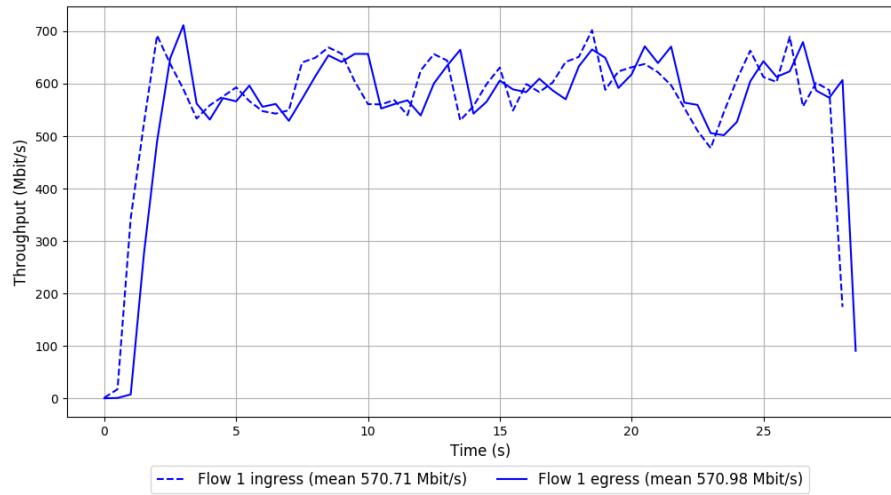


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-03-26 18:54:09
End at: 2019-03-26 18:54:39
Local clock offset: 13.009 ms
Remote clock offset: 13.121 ms

# Below is generated by plot.py at 2019-03-26 22:36:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 570.98 Mbit/s
95th percentile per-packet one-way delay: 128.828 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 570.98 Mbit/s
95th percentile per-packet one-way delay: 128.828 ms
Loss rate: 0.57%
```

Run 1: Report of Indigo-MusesT — Data Link

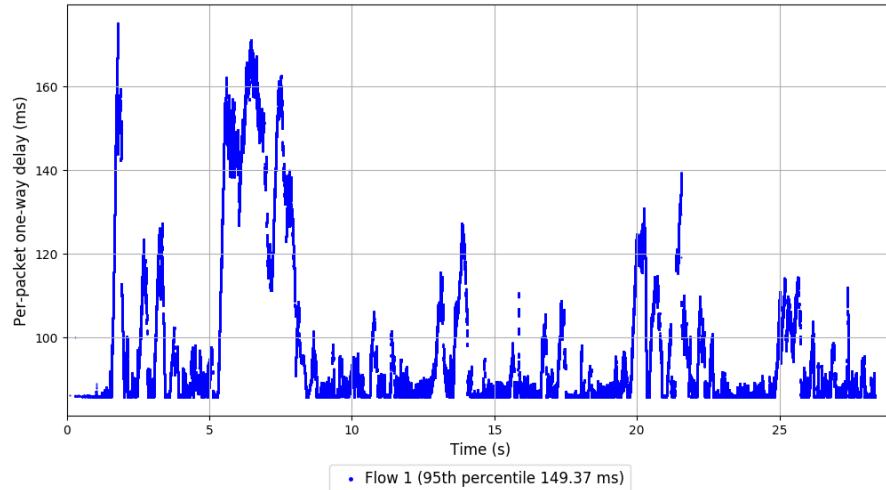
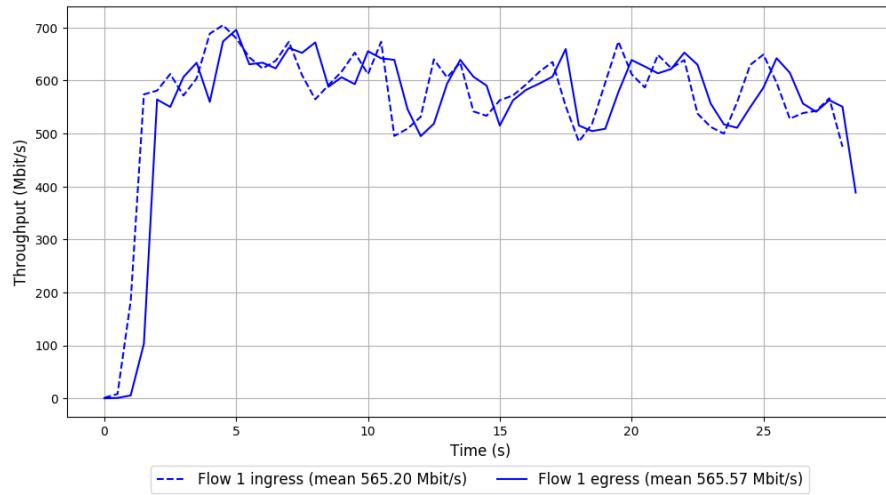


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-26 19:25:12
End at: 2019-03-26 19:25:42
Local clock offset: 22.876 ms
Remote clock offset: 22.648 ms

# Below is generated by plot.py at 2019-03-26 22:37:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.57 Mbit/s
95th percentile per-packet one-way delay: 149.365 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 565.57 Mbit/s
95th percentile per-packet one-way delay: 149.365 ms
Loss rate: 0.54%
```

Run 2: Report of Indigo-MusesT — Data Link

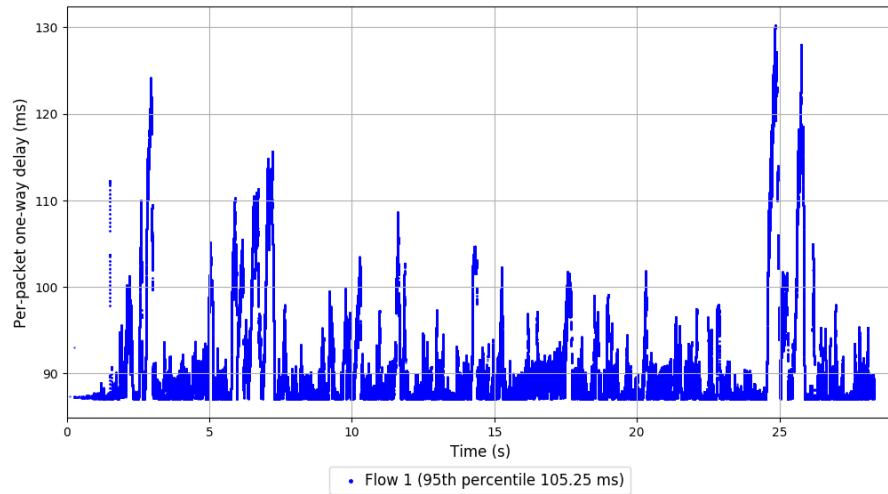
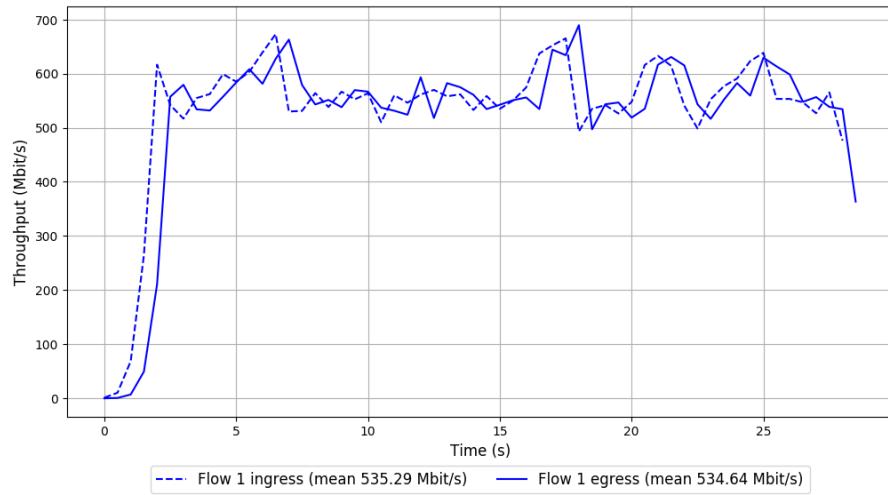


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-26 19:56:06
End at: 2019-03-26 19:56:36
Local clock offset: 36.968 ms
Remote clock offset: 35.764 ms

# Below is generated by plot.py at 2019-03-26 22:38:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.64 Mbit/s
95th percentile per-packet one-way delay: 105.246 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 534.64 Mbit/s
95th percentile per-packet one-way delay: 105.246 ms
Loss rate: 0.73%
```

Run 3: Report of Indigo-MusesT — Data Link

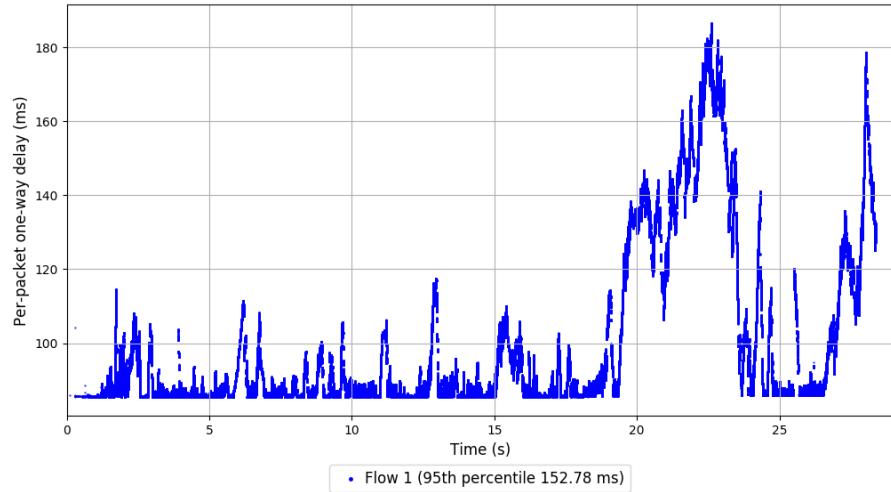
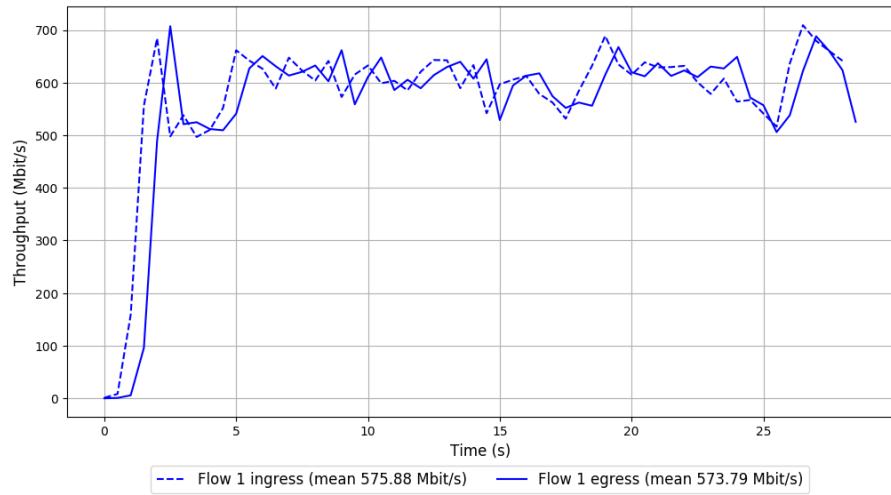


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-26 20:27:25
End at: 2019-03-26 20:27:55
Local clock offset: 22.228 ms
Remote clock offset: 22.21 ms

# Below is generated by plot.py at 2019-03-26 22:40:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 573.79 Mbit/s
95th percentile per-packet one-way delay: 152.781 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 573.79 Mbit/s
95th percentile per-packet one-way delay: 152.781 ms
Loss rate: 0.97%
```

Run 4: Report of Indigo-MusesT — Data Link

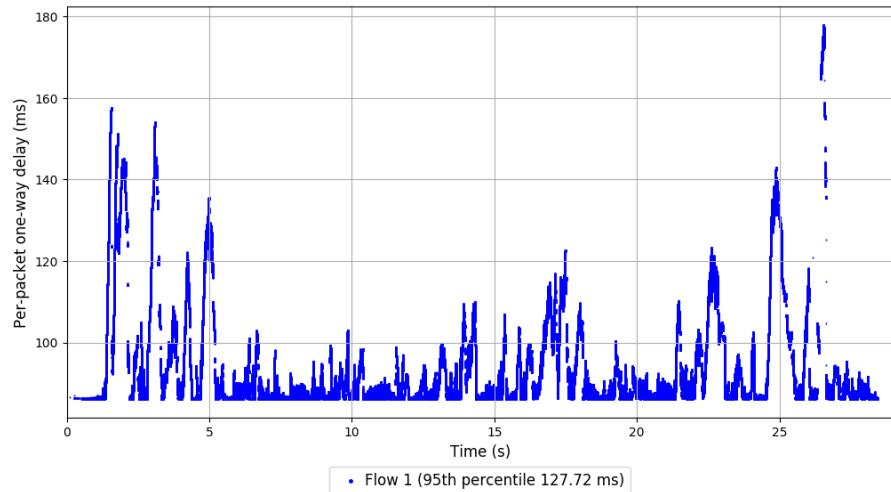
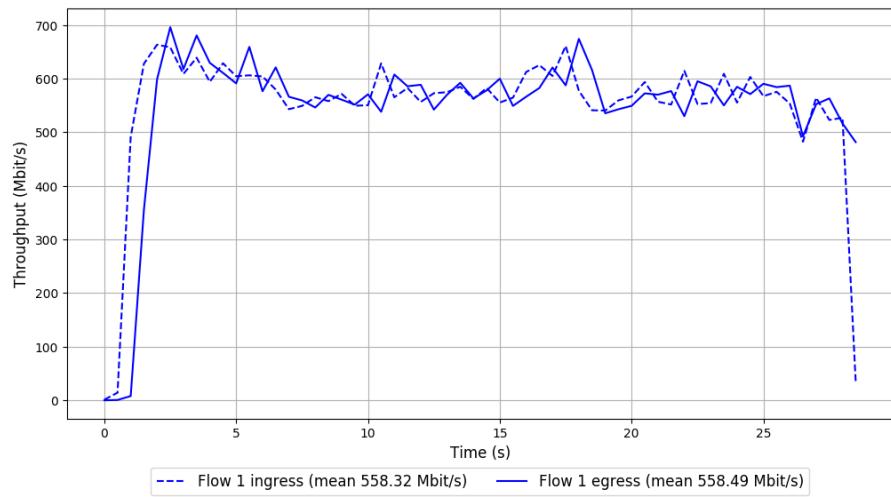


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-26 20:58:41
End at: 2019-03-26 20:59:11
Local clock offset: 5.236 ms
Remote clock offset: 9.97 ms

# Below is generated by plot.py at 2019-03-26 22:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.49 Mbit/s
95th percentile per-packet one-way delay: 127.725 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 558.49 Mbit/s
95th percentile per-packet one-way delay: 127.725 ms
Loss rate: 0.58%
```

Run 5: Report of Indigo-MusesT — Data Link

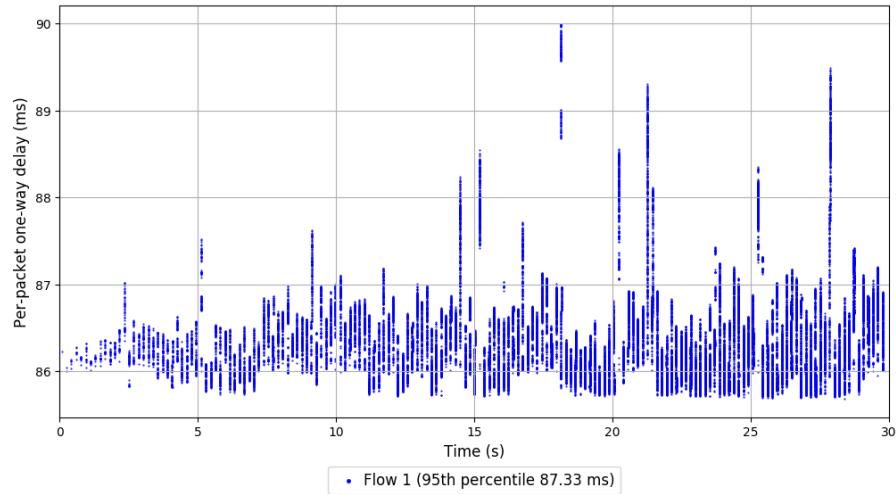
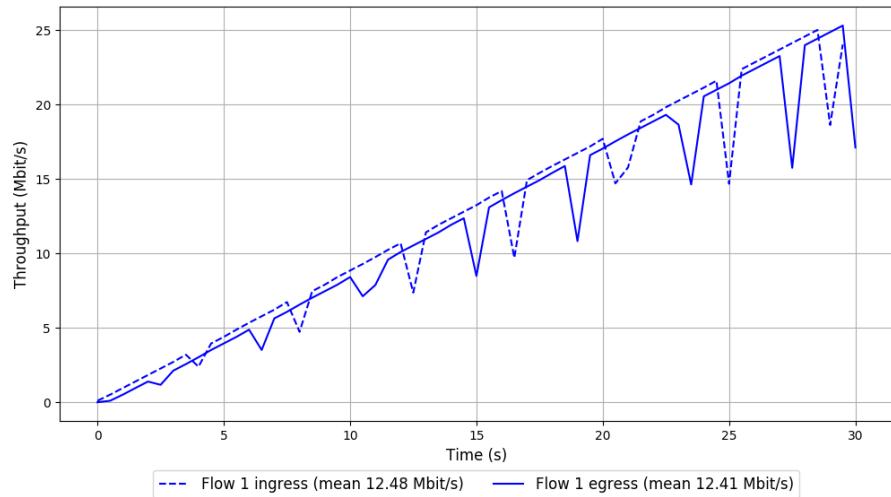


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-03-26 18:58:15
End at: 2019-03-26 18:58:45
Local clock offset: 11.285 ms
Remote clock offset: 11.321 ms

# Below is generated by plot.py at 2019-03-26 22:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 87.329 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 87.329 ms
Loss rate: 1.16%
```

Run 1: Report of LEDBAT — Data Link

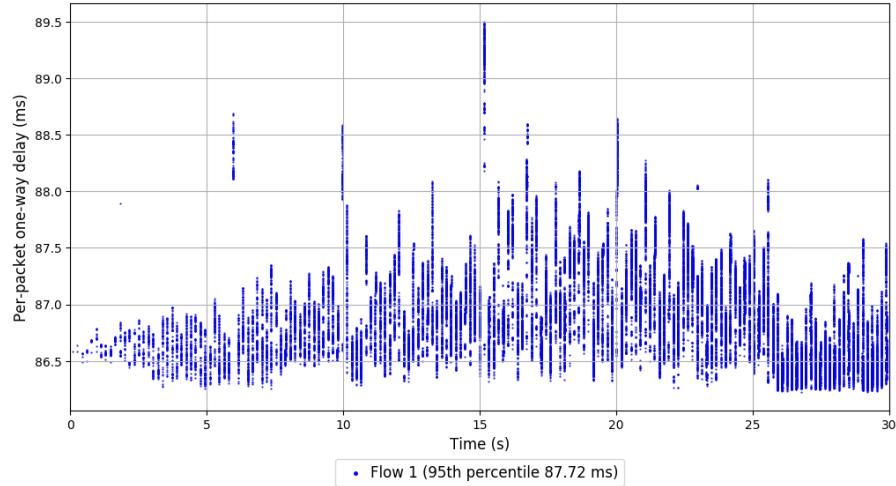
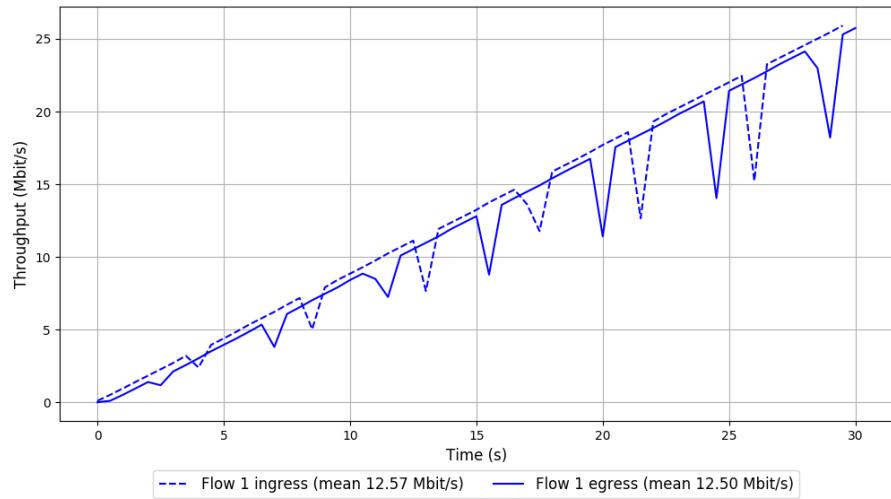


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-26 19:29:25
End at: 2019-03-26 19:29:55
Local clock offset: 22.357 ms
Remote clock offset: 21.932 ms

# Below is generated by plot.py at 2019-03-26 22:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 87.724 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 87.724 ms
Loss rate: 1.15%
```

Run 2: Report of LEDBAT — Data Link

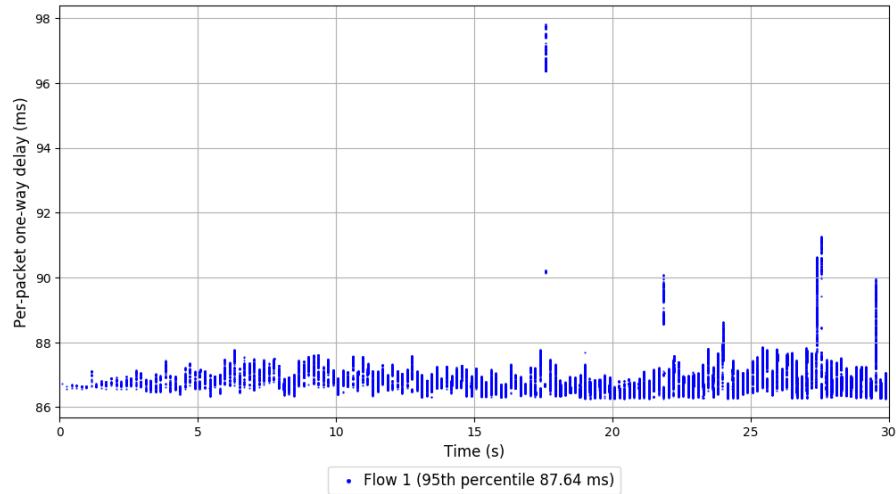
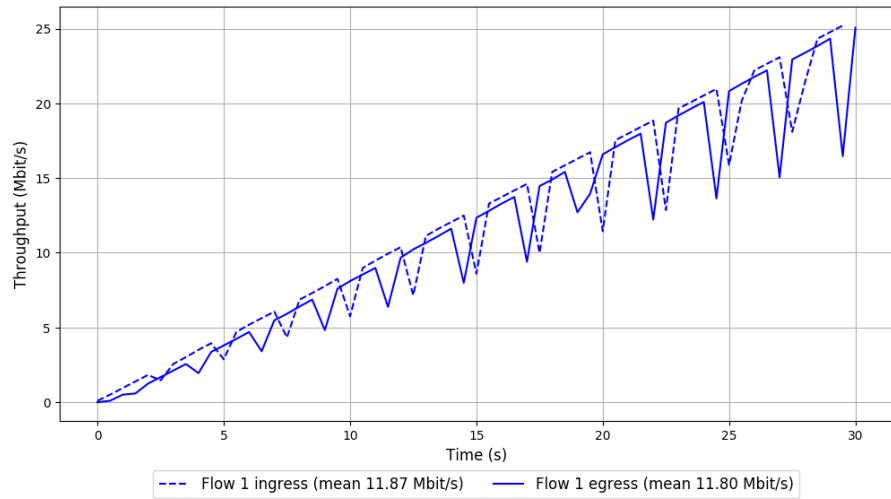


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-26 20:00:23
End at: 2019-03-26 20:00:53
Local clock offset: 25.29 ms
Remote clock offset: 24.776 ms

# Below is generated by plot.py at 2019-03-26 22:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 87.644 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 87.644 ms
Loss rate: 1.19%
```

Run 3: Report of LEDBAT — Data Link

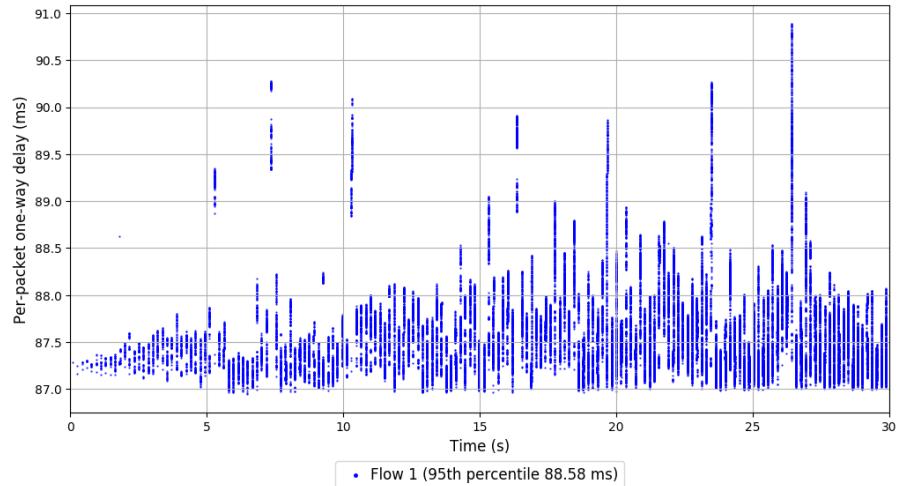
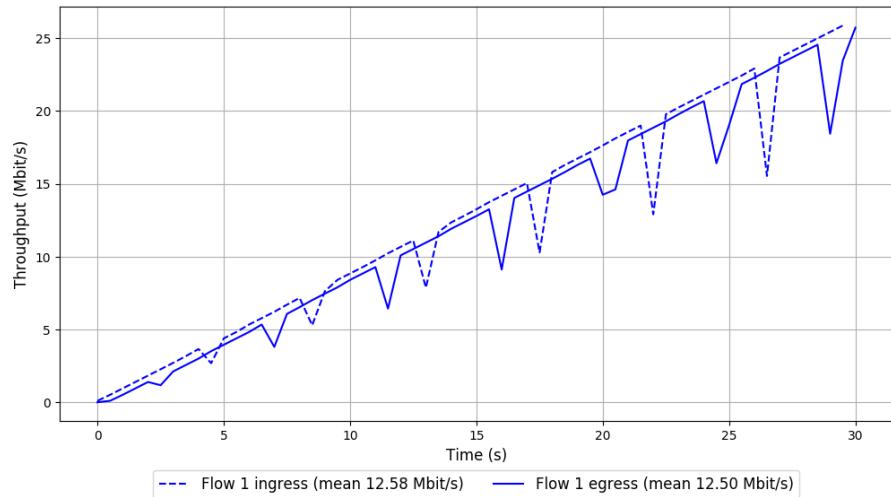


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-26 20:31:43
End at: 2019-03-26 20:32:13
Local clock offset: 15.696 ms
Remote clock offset: 15.581 ms

# Below is generated by plot.py at 2019-03-26 22:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 88.585 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 88.585 ms
Loss rate: 1.15%
```

Run 4: Report of LEDBAT — Data Link

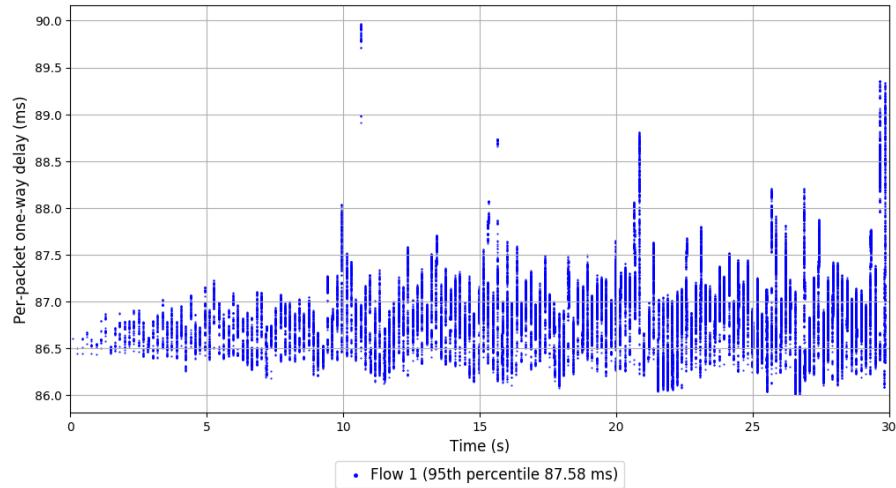
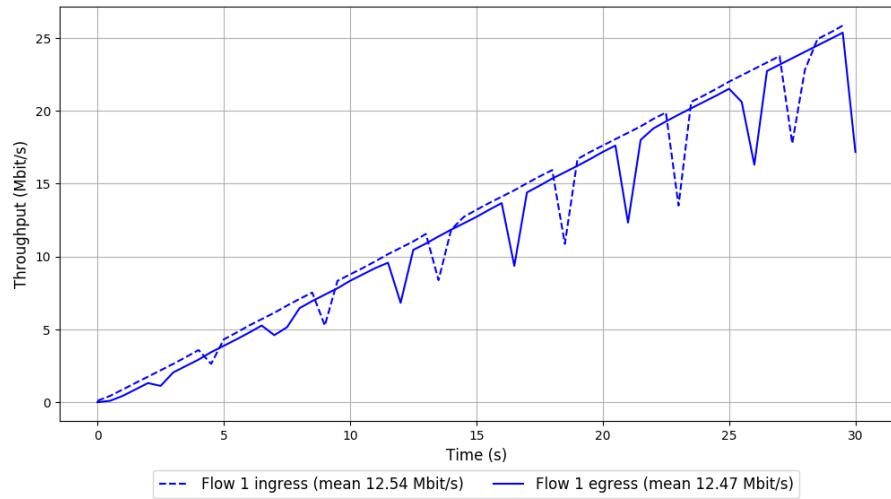


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-26 21:02:55
End at: 2019-03-26 21:03:25
Local clock offset: 5.156 ms
Remote clock offset: 9.954 ms

# Below is generated by plot.py at 2019-03-26 22:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.47 Mbit/s
95th percentile per-packet one-way delay: 87.575 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 12.47 Mbit/s
95th percentile per-packet one-way delay: 87.575 ms
Loss rate: 1.16%
```

Run 5: Report of LEDBAT — Data Link

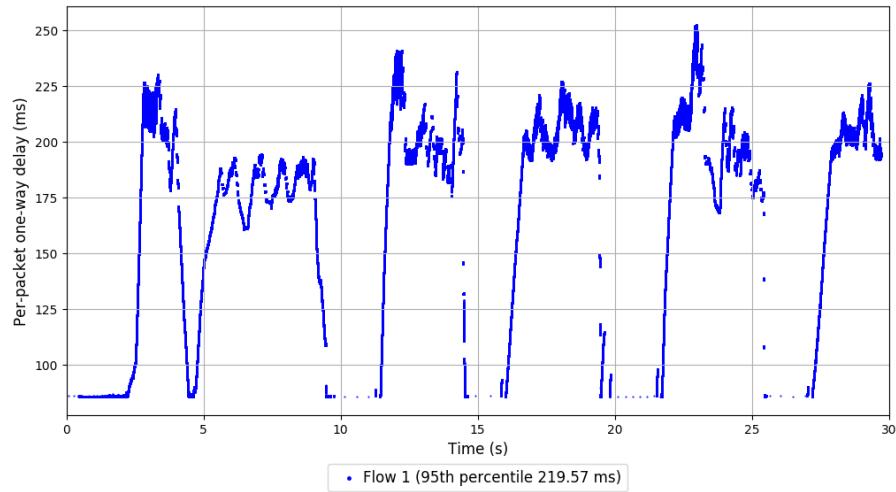
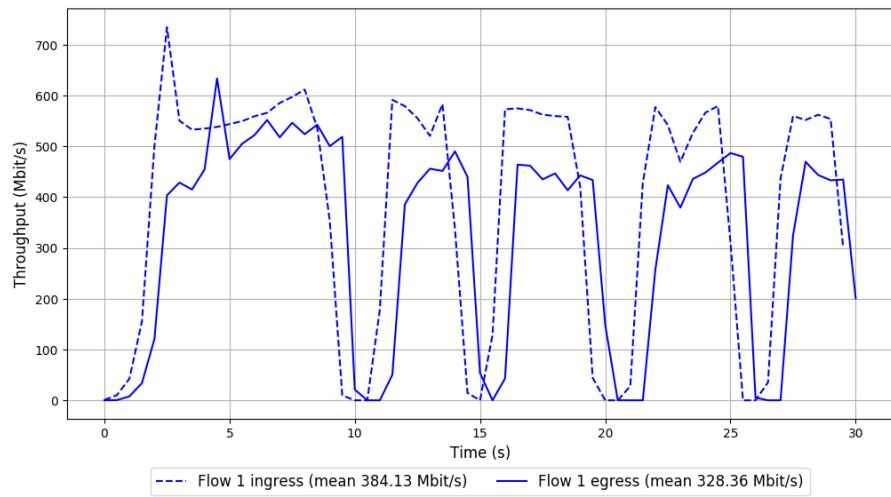


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-03-26 18:59:25
End at: 2019-03-26 18:59:55
Local clock offset: 13.391 ms
Remote clock offset: 13.118 ms

# Below is generated by plot.py at 2019-03-26 22:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.36 Mbit/s
95th percentile per-packet one-way delay: 219.572 ms
Loss rate: 15.02%
-- Flow 1:
Average throughput: 328.36 Mbit/s
95th percentile per-packet one-way delay: 219.572 ms
Loss rate: 15.02%
```

Run 1: Report of PCC-Allegro — Data Link

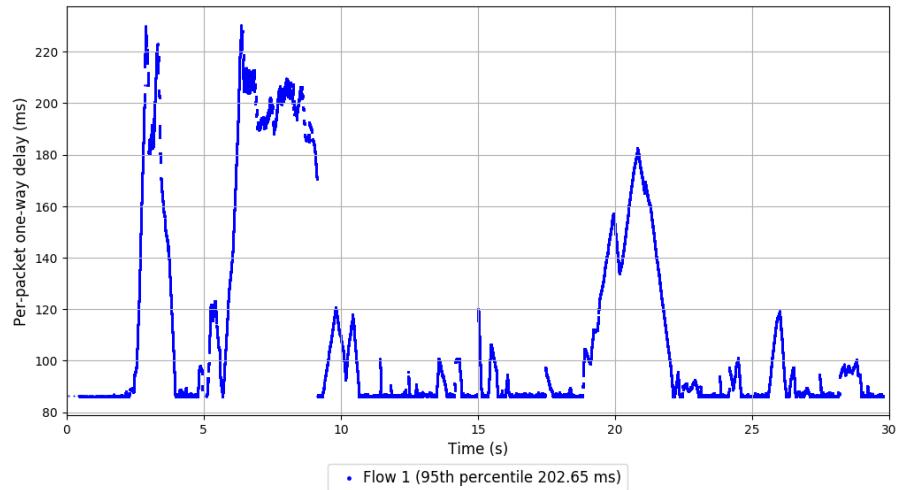
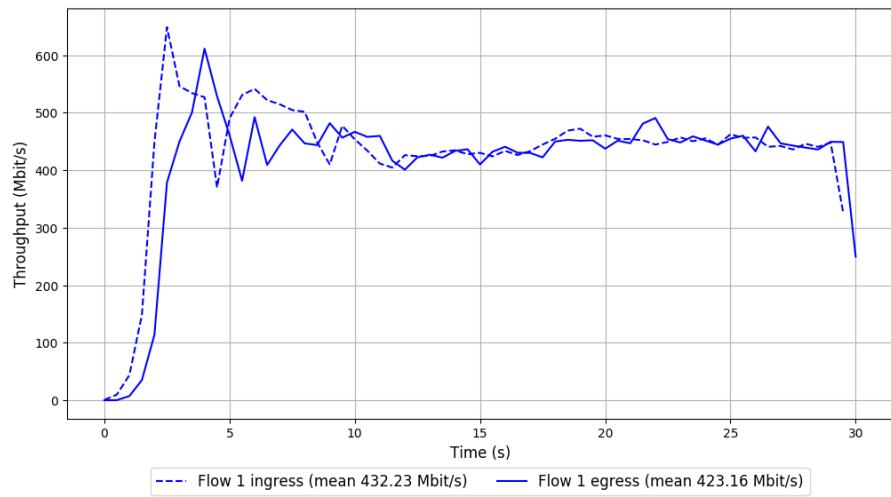


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-26 19:30:35
End at: 2019-03-26 19:31:05
Local clock offset: 22.67 ms
Remote clock offset: 22.174 ms

# Below is generated by plot.py at 2019-03-26 22:50:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 423.16 Mbit/s
95th percentile per-packet one-way delay: 202.648 ms
Loss rate: 2.66%
-- Flow 1:
Average throughput: 423.16 Mbit/s
95th percentile per-packet one-way delay: 202.648 ms
Loss rate: 2.66%
```

Run 2: Report of PCC-Allegro — Data Link

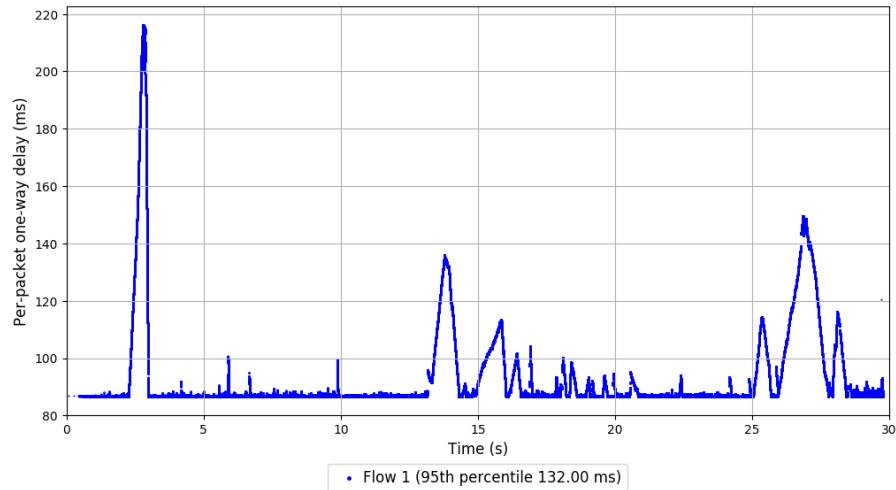
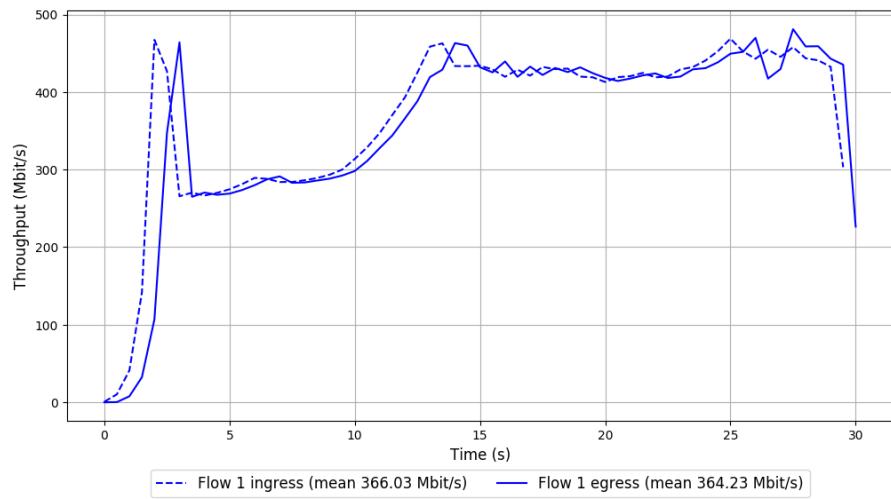


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-26 20:01:33
End at: 2019-03-26 20:02:03
Local clock offset: 23.497 ms
Remote clock offset: 22.968 ms

# Below is generated by plot.py at 2019-03-26 22:50:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.23 Mbit/s
95th percentile per-packet one-way delay: 131.996 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 364.23 Mbit/s
95th percentile per-packet one-way delay: 131.996 ms
Loss rate: 1.07%
```

Run 3: Report of PCC-Allegro — Data Link

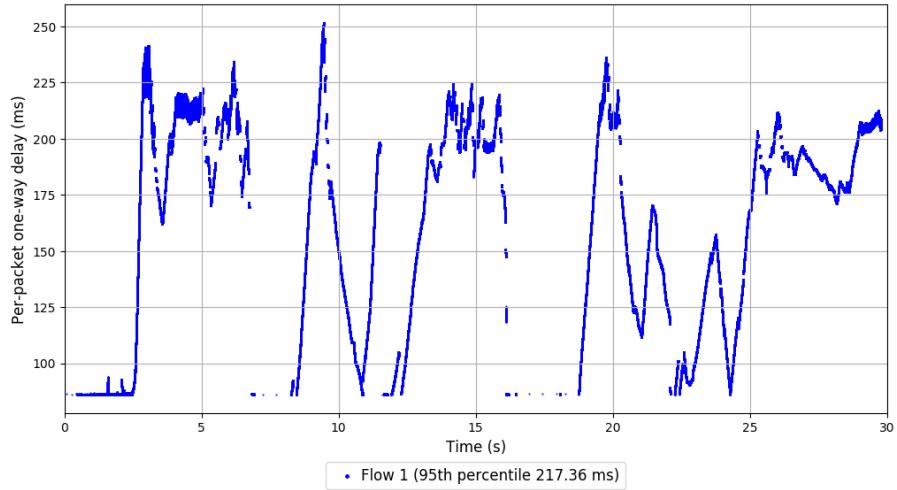
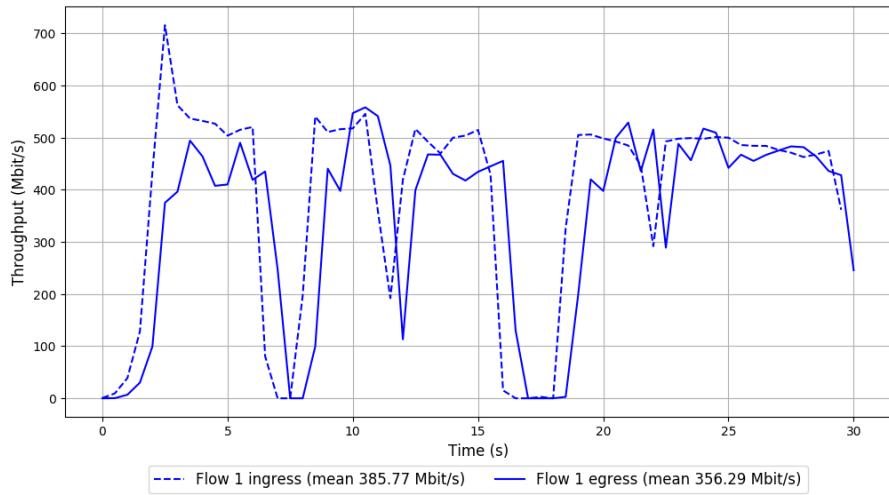


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-26 20:32:54
End at: 2019-03-26 20:33:24
Local clock offset: 13.417 ms
Remote clock offset: 14.169 ms

# Below is generated by plot.py at 2019-03-26 22:50:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.29 Mbit/s
95th percentile per-packet one-way delay: 217.359 ms
Loss rate: 8.18%
-- Flow 1:
Average throughput: 356.29 Mbit/s
95th percentile per-packet one-way delay: 217.359 ms
Loss rate: 8.18%
```

Run 4: Report of PCC-Allegro — Data Link

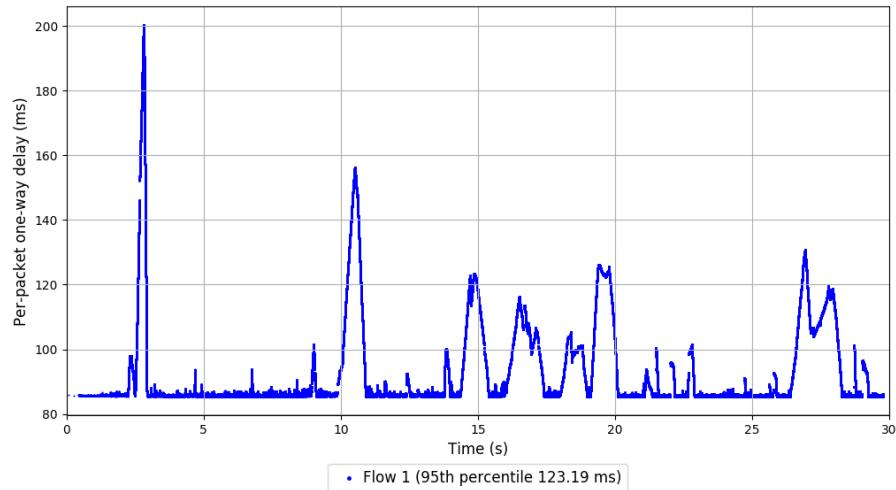
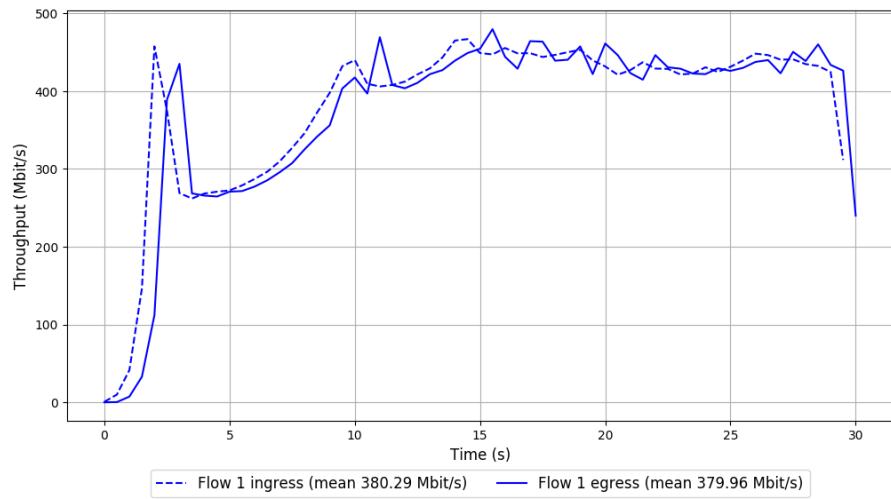


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-26 21:04:06
End at: 2019-03-26 21:04:36
Local clock offset: 4.05 ms
Remote clock offset: 8.95 ms

# Below is generated by plot.py at 2019-03-26 22:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 379.96 Mbit/s
95th percentile per-packet one-way delay: 123.186 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 379.96 Mbit/s
95th percentile per-packet one-way delay: 123.186 ms
Loss rate: 0.67%
```

Run 5: Report of PCC-Allegro — Data Link

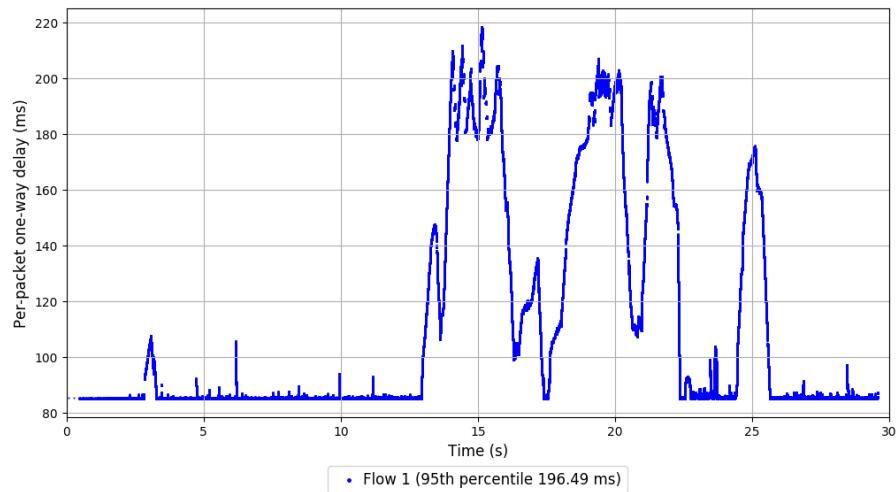
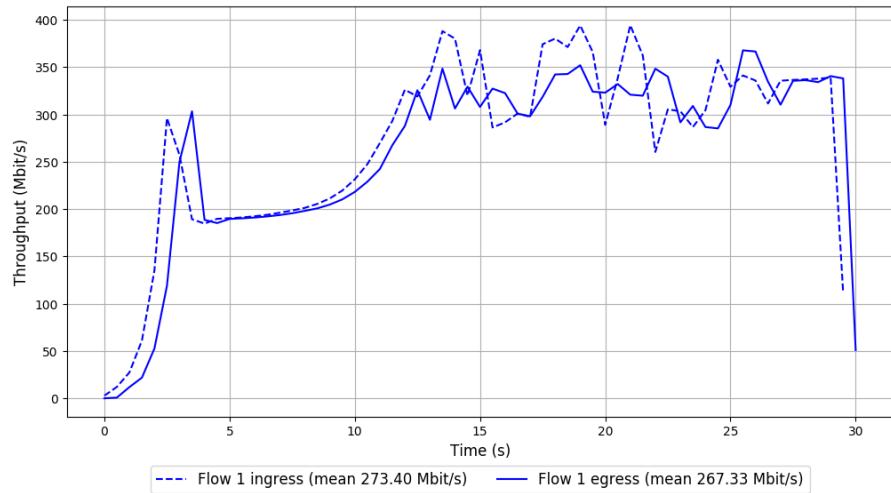


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-03-26 19:00:59
End at: 2019-03-26 19:01:29
Local clock offset: 16.058 ms
Remote clock offset: 16.452 ms

# Below is generated by plot.py at 2019-03-26 22:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.33 Mbit/s
95th percentile per-packet one-way delay: 196.491 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 267.33 Mbit/s
95th percentile per-packet one-way delay: 196.491 ms
Loss rate: 2.79%
```

Run 1: Report of PCC-Expr — Data Link

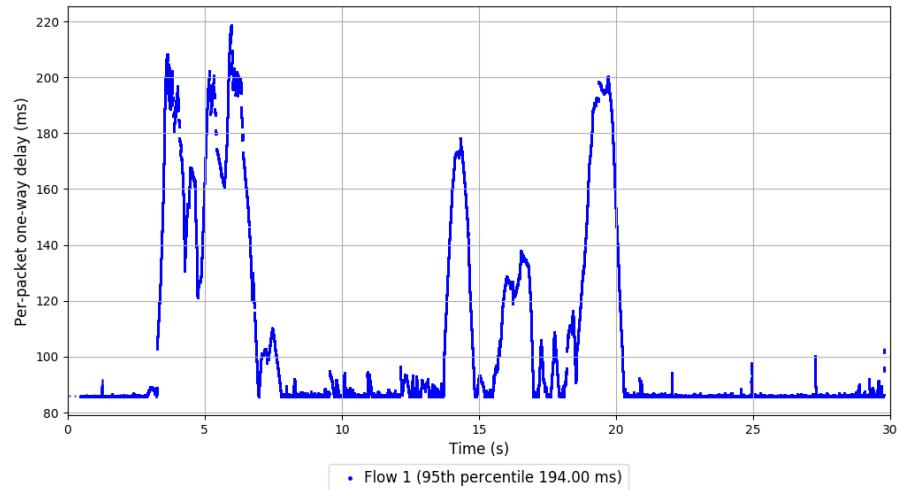
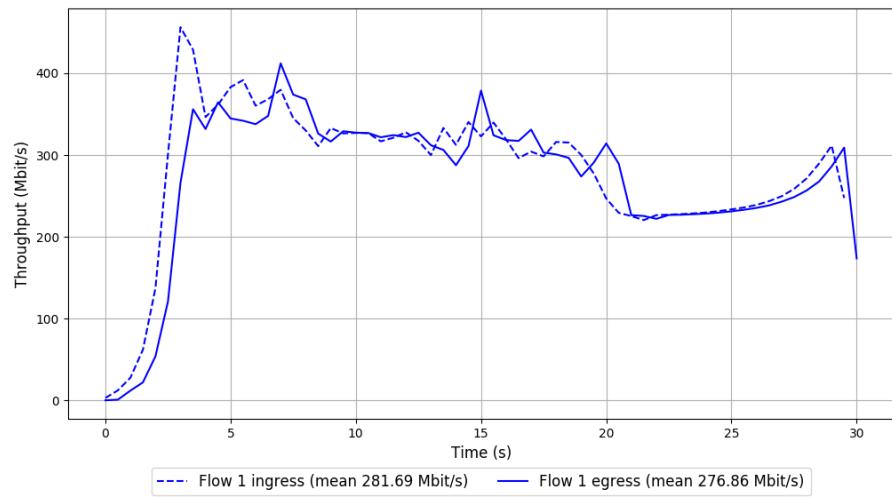


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-26 19:32:13
End at: 2019-03-26 19:32:43
Local clock offset: 22.97 ms
Remote clock offset: 22.843 ms

# Below is generated by plot.py at 2019-03-26 22:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 276.86 Mbit/s
95th percentile per-packet one-way delay: 194.005 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 276.86 Mbit/s
95th percentile per-packet one-way delay: 194.005 ms
Loss rate: 2.28%
```

Run 2: Report of PCC-Expr — Data Link

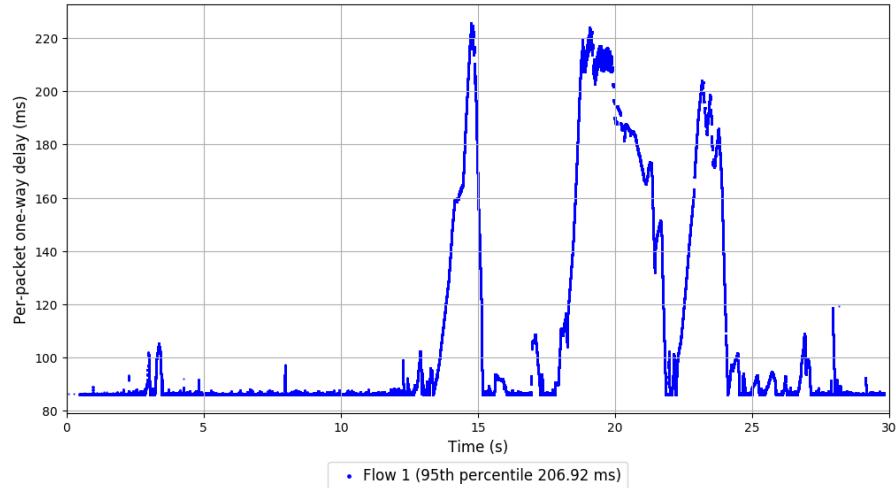
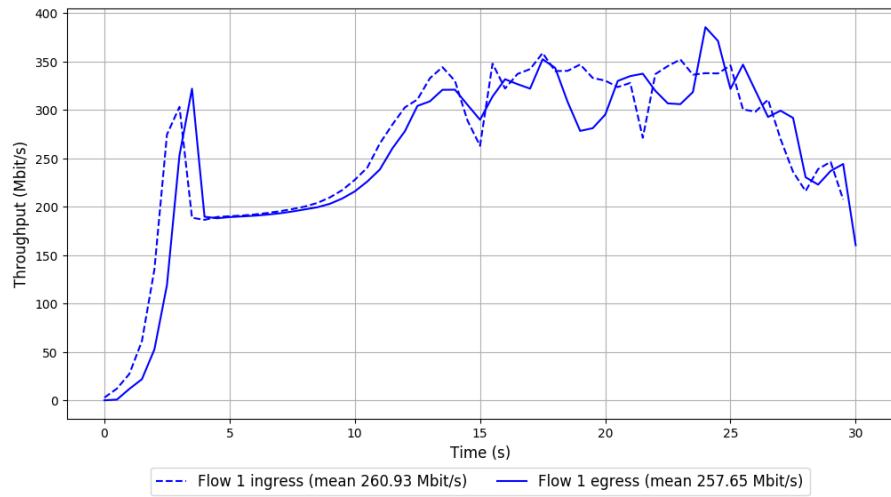


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-26 20:03:07
End at: 2019-03-26 20:03:37
Local clock offset: 21.09 ms
Remote clock offset: 20.787 ms

# Below is generated by plot.py at 2019-03-26 22:52:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.65 Mbit/s
95th percentile per-packet one-way delay: 206.916 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 257.65 Mbit/s
95th percentile per-packet one-way delay: 206.916 ms
Loss rate: 1.83%
```

Run 3: Report of PCC-Expr — Data Link

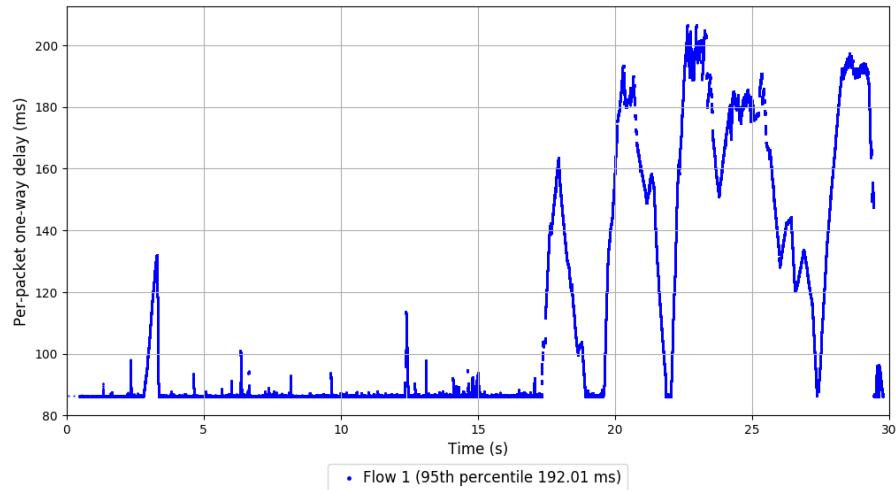
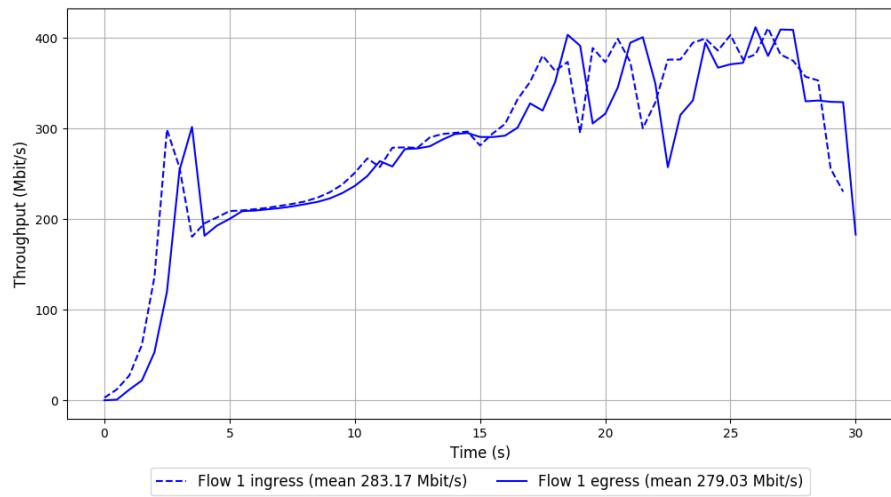


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-26 20:34:28
End at: 2019-03-26 20:34:58
Local clock offset: 11.682 ms
Remote clock offset: 12.482 ms

# Below is generated by plot.py at 2019-03-26 22:57:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 279.03 Mbit/s
95th percentile per-packet one-way delay: 192.008 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 279.03 Mbit/s
95th percentile per-packet one-way delay: 192.008 ms
Loss rate: 2.03%
```

Run 4: Report of PCC-Expr — Data Link

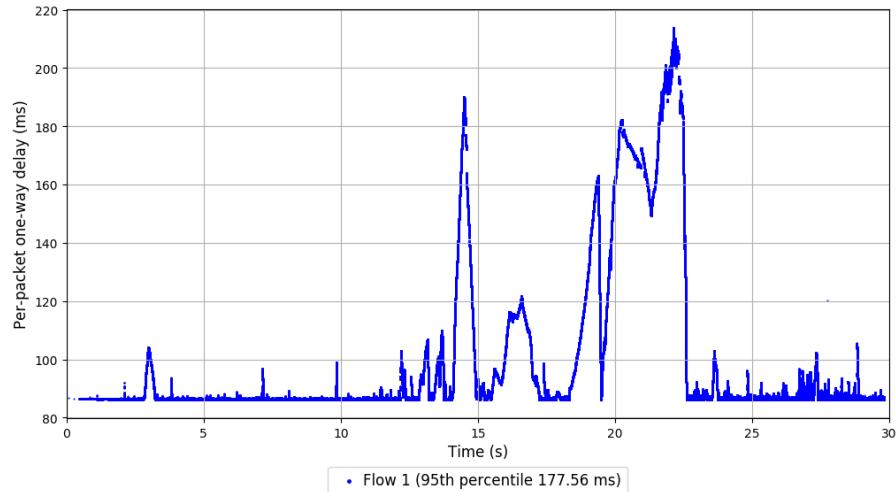
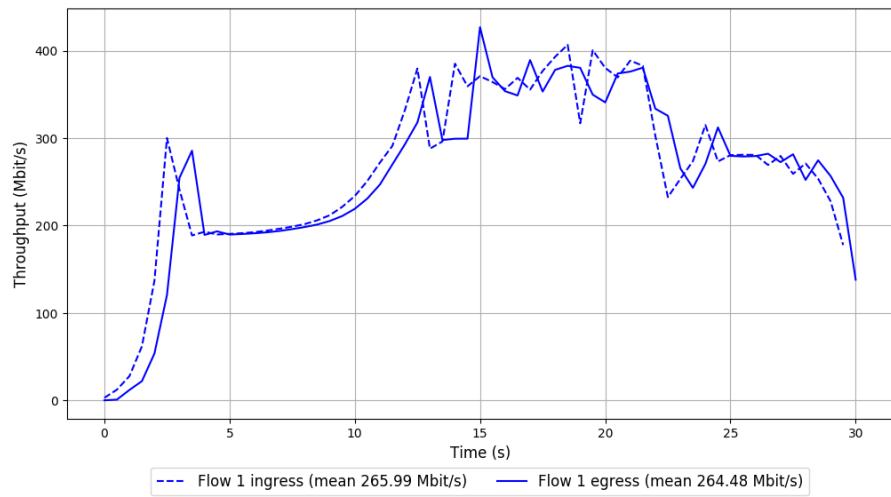


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-26 21:05:41
End at: 2019-03-26 21:06:11
Local clock offset: 4.09 ms
Remote clock offset: 7.608 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 264.48 Mbit/s
95th percentile per-packet one-way delay: 177.560 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 264.48 Mbit/s
95th percentile per-packet one-way delay: 177.560 ms
Loss rate: 1.14%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

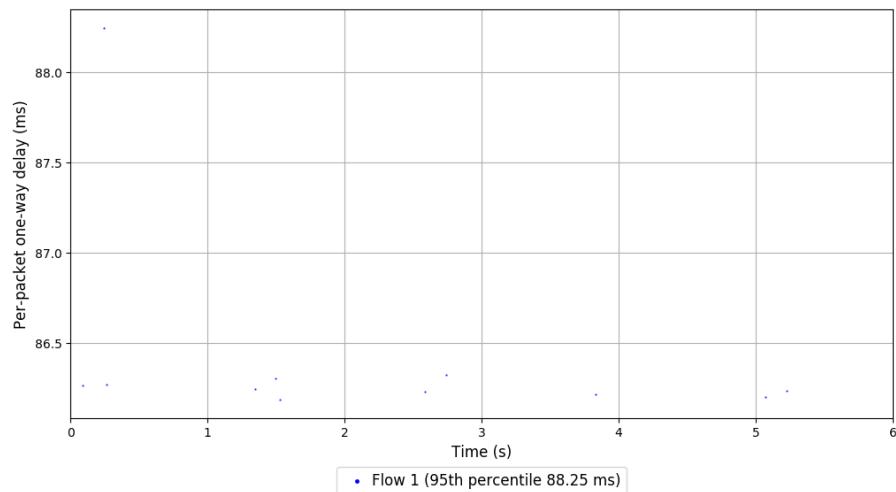
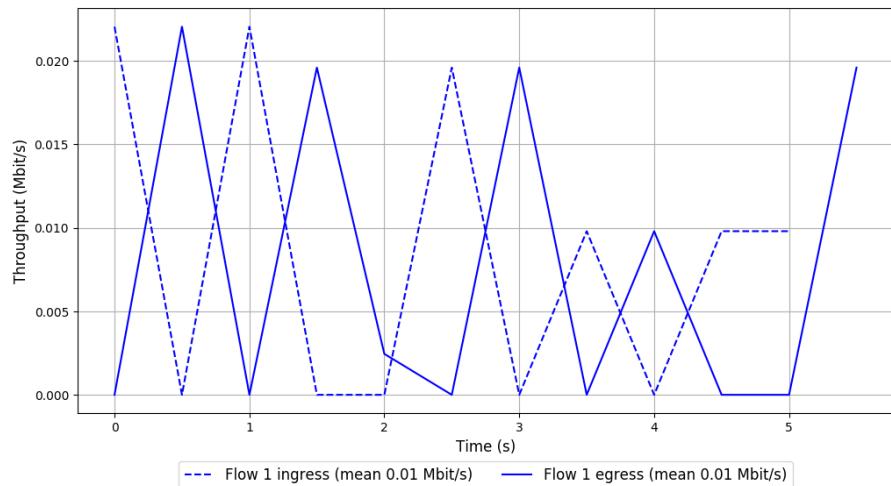
Start at: 2019-03-26 18:55:45

End at: 2019-03-26 18:56:15

Local clock offset: 10.263 ms

Remote clock offset: 9.878 ms

Run 1: Report of QUIC Cubic — Data Link

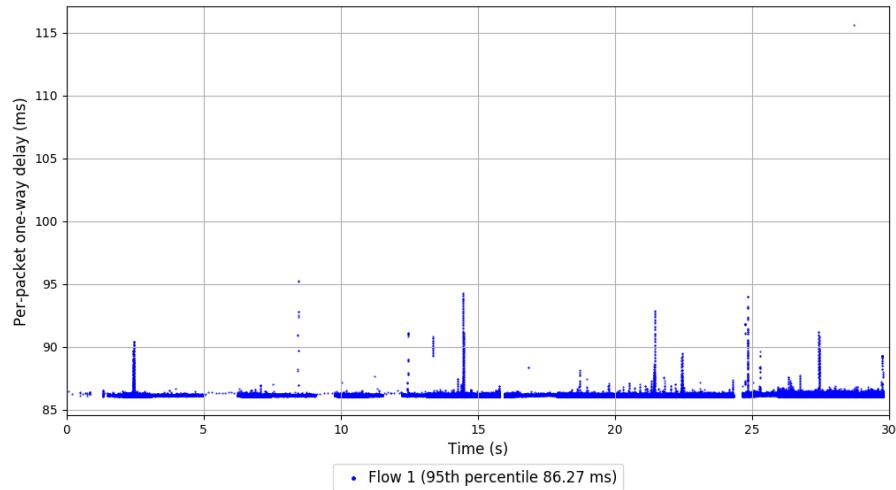
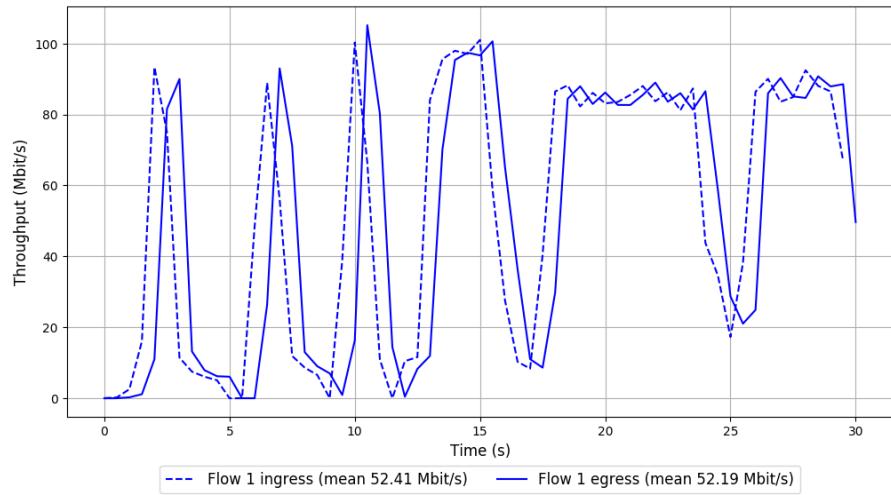


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-26 19:26:48
End at: 2019-03-26 19:27:18
Local clock offset: 22.46 ms
Remote clock offset: 22.017 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.19 Mbit/s
95th percentile per-packet one-way delay: 86.265 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 52.19 Mbit/s
95th percentile per-packet one-way delay: 86.265 ms
Loss rate: 1.00%
```

Run 2: Report of QUIC Cubic — Data Link

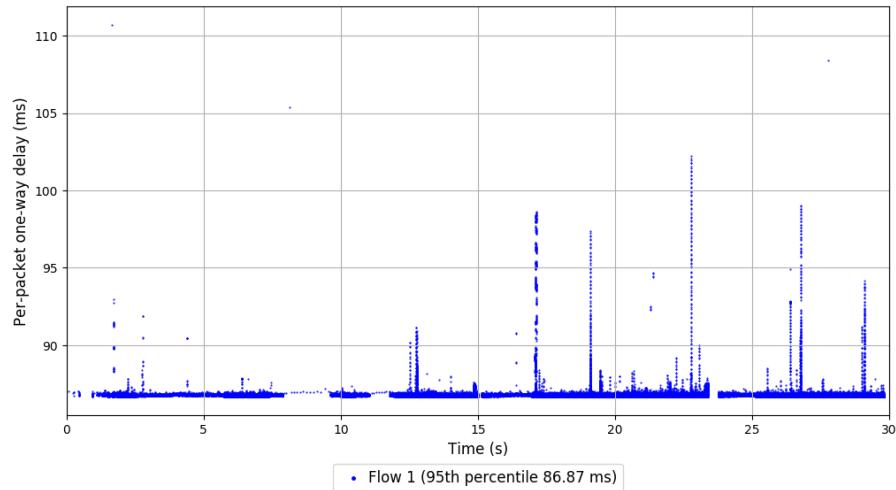
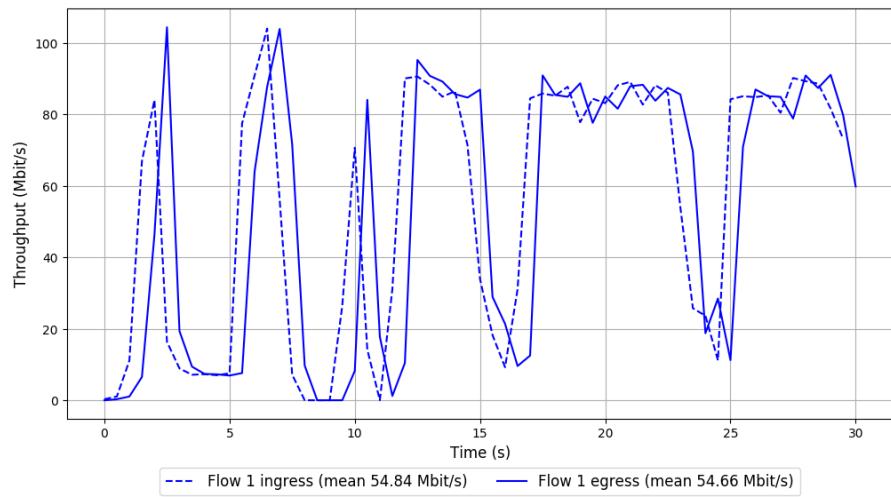


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-26 19:57:41
End at: 2019-03-26 19:58:11
Local clock offset: 31.802 ms
Remote clock offset: 30.944 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.66 Mbit/s
95th percentile per-packet one-way delay: 86.869 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 54.66 Mbit/s
95th percentile per-packet one-way delay: 86.869 ms
Loss rate: 0.89%
```

Run 3: Report of QUIC Cubic — Data Link

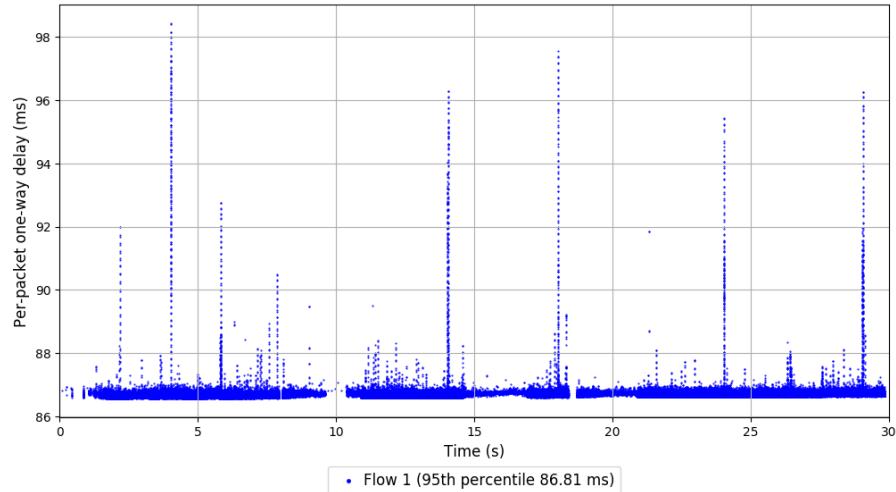
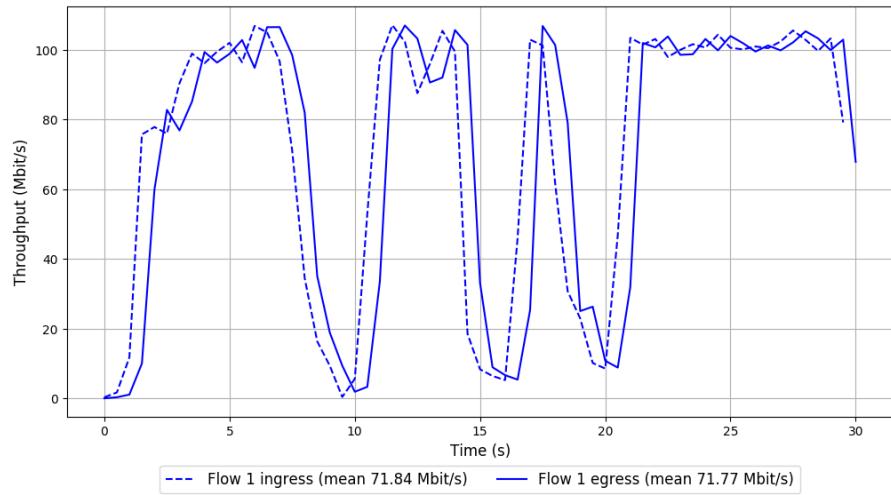


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-26 20:29:06
End at: 2019-03-26 20:29:36
Local clock offset: 20.492 ms
Remote clock offset: 20.002 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.77 Mbit/s
95th percentile per-packet one-way delay: 86.812 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 71.77 Mbit/s
95th percentile per-packet one-way delay: 86.812 ms
Loss rate: 0.68%
```

Run 4: Report of QUIC Cubic — Data Link

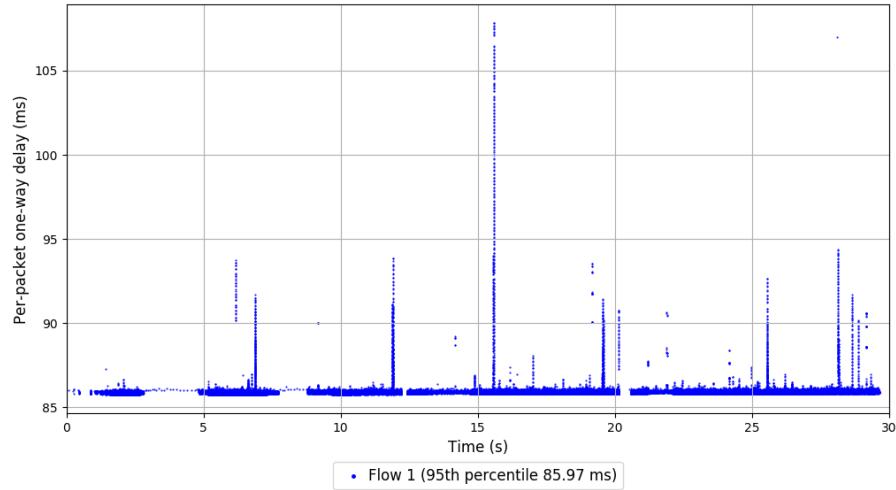
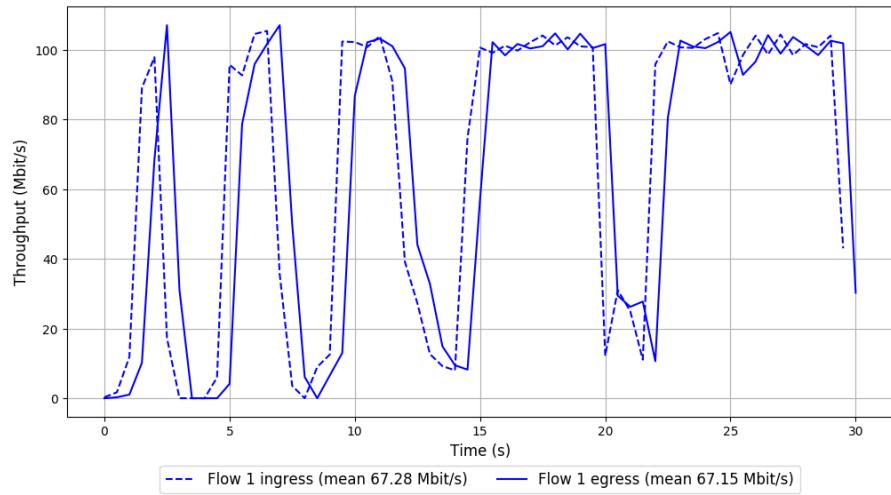


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-26 21:00:18
End at: 2019-03-26 21:00:48
Local clock offset: 4.938 ms
Remote clock offset: 10.315 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.15 Mbit/s
95th percentile per-packet one-way delay: 85.973 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 67.15 Mbit/s
95th percentile per-packet one-way delay: 85.973 ms
Loss rate: 0.78%
```

Run 5: Report of QUIC Cubic — Data Link

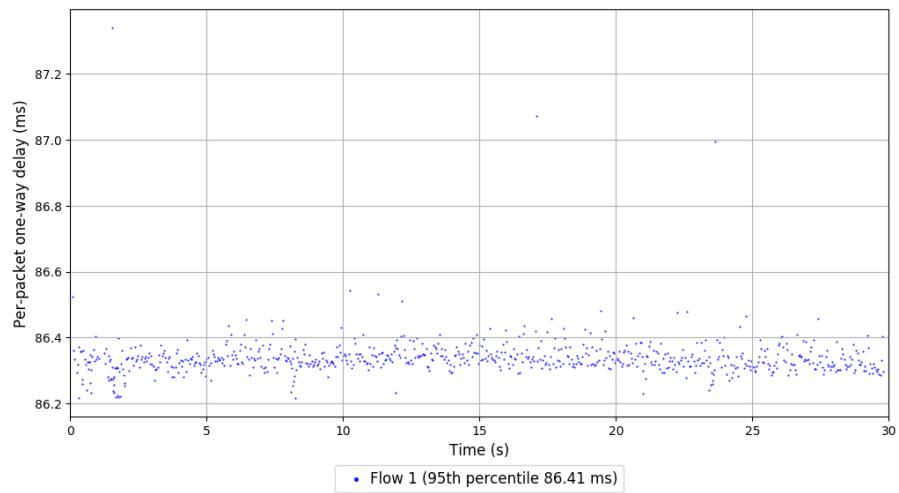
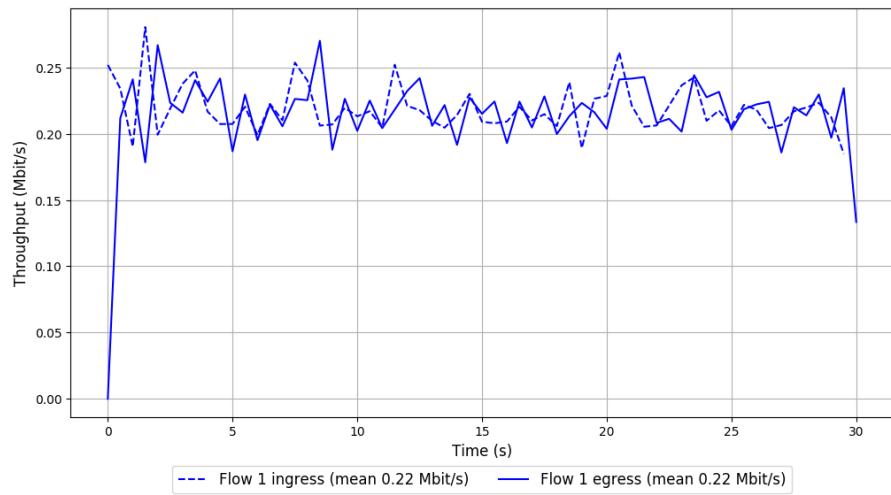


Run 1: Statistics of SCReAM

```
Start at: 2019-03-26 19:06:48
End at: 2019-03-26 19:07:18
Local clock offset: 14.715 ms
Remote clock offset: 14.602 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.407 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.407 ms
Loss rate: 0.64%
```

Run 1: Report of SCReAM — Data Link

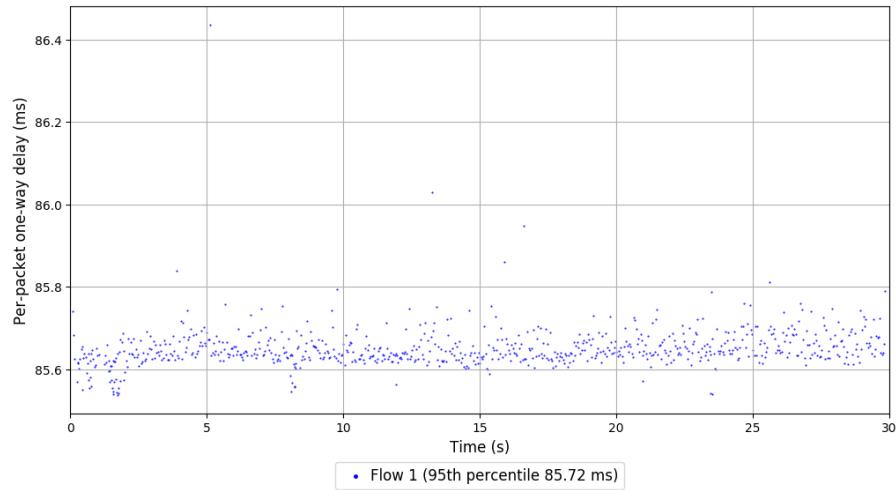
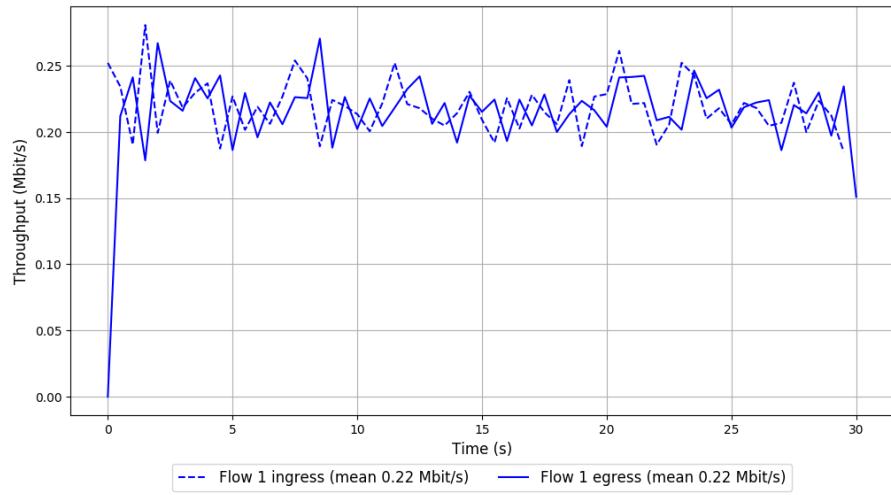


Run 2: Statistics of SCReAM

```
Start at: 2019-03-26 19:37:58
End at: 2019-03-26 19:38:28
Local clock offset: 26.948 ms
Remote clock offset: 26.875 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.722 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.722 ms
Loss rate: 0.51%
```

Run 2: Report of SCReAM — Data Link

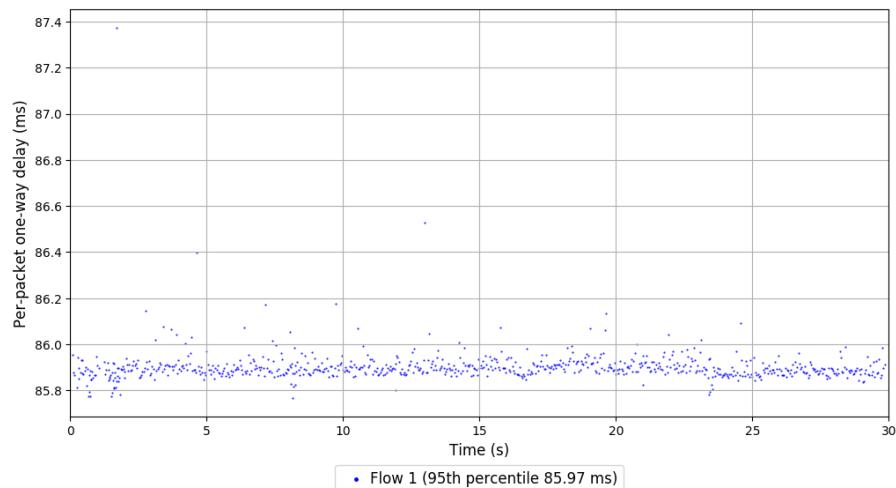
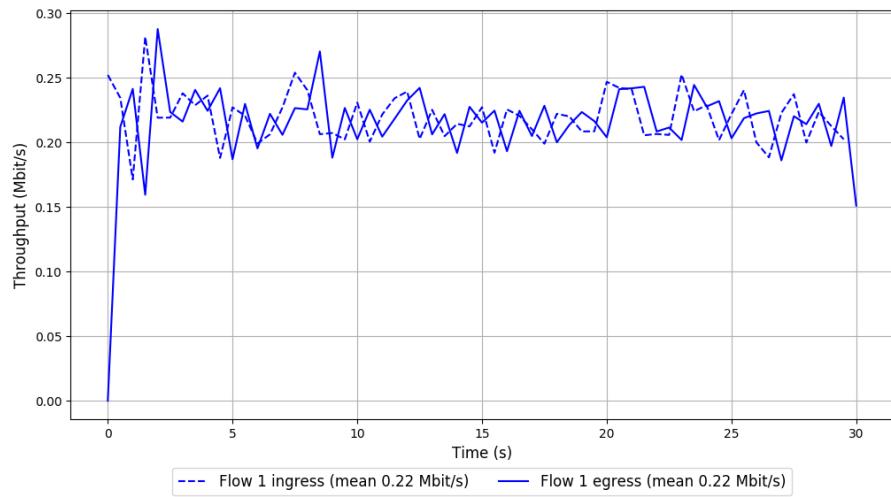


Run 3: Statistics of SCReAM

```
Start at: 2019-03-26 20:09:08
End at: 2019-03-26 20:09:38
Local clock offset: 17.015 ms
Remote clock offset: 17.076 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.973 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.973 ms
Loss rate: 0.64%
```

Run 3: Report of SCReAM — Data Link

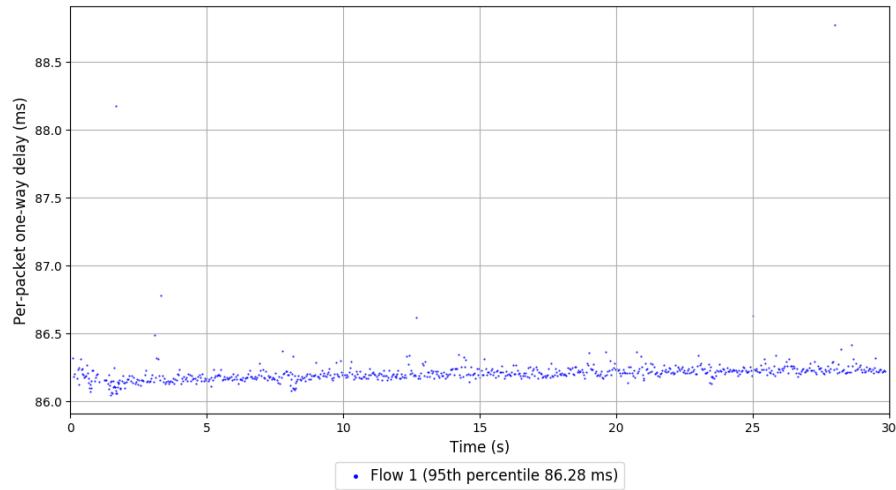
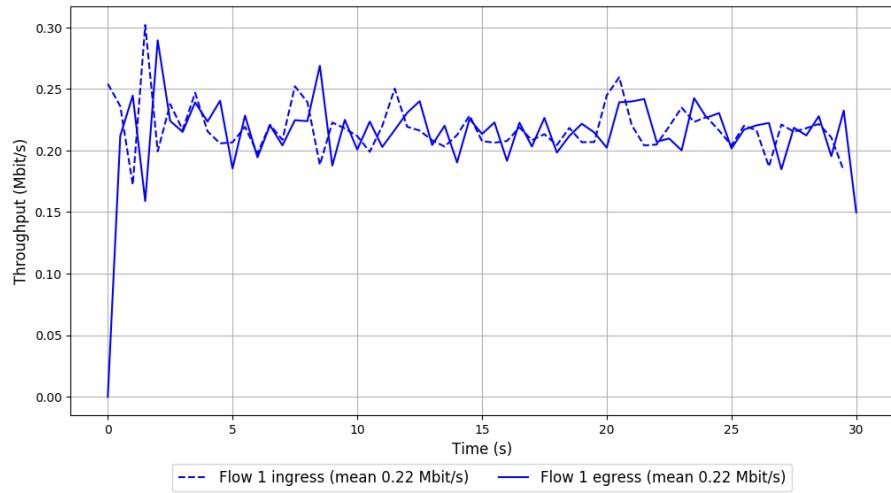


Run 4: Statistics of SCReAM

```
Start at: 2019-03-26 20:40:11
End at: 2019-03-26 20:40:41
Local clock offset: 7.156 ms
Remote clock offset: 9.069 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.284 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.284 ms
Loss rate: 0.51%
```

Run 4: Report of SCReAM — Data Link

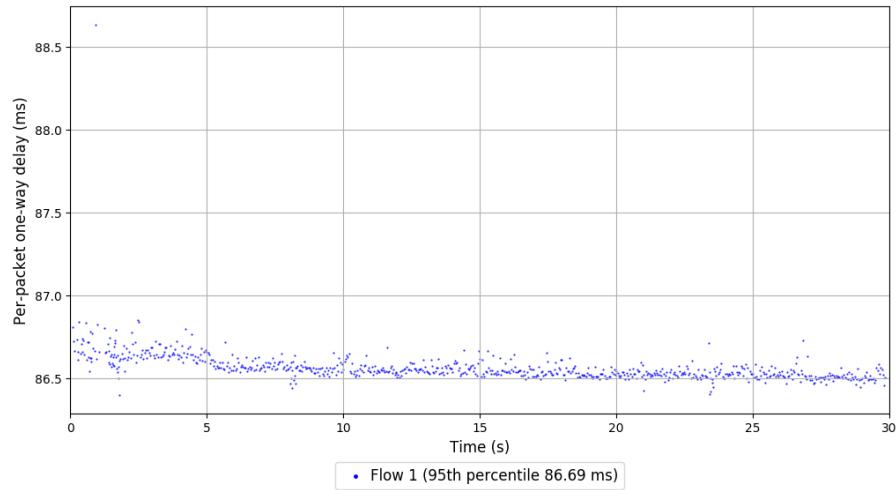
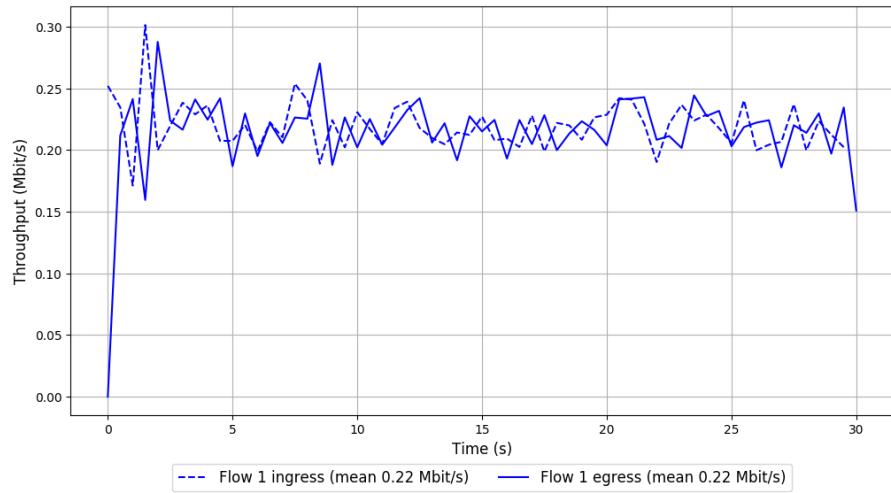


Run 5: Statistics of SCReAM

```
Start at: 2019-03-26 21:11:20
End at: 2019-03-26 21:11:50
Local clock offset: 2.578 ms
Remote clock offset: 5.11 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.692 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.692 ms
Loss rate: 0.64%
```

Run 5: Report of SCReAM — Data Link

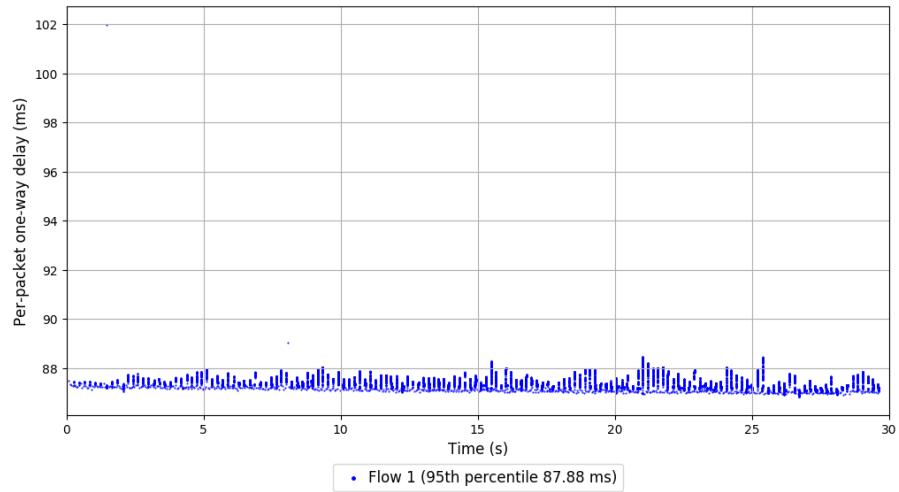
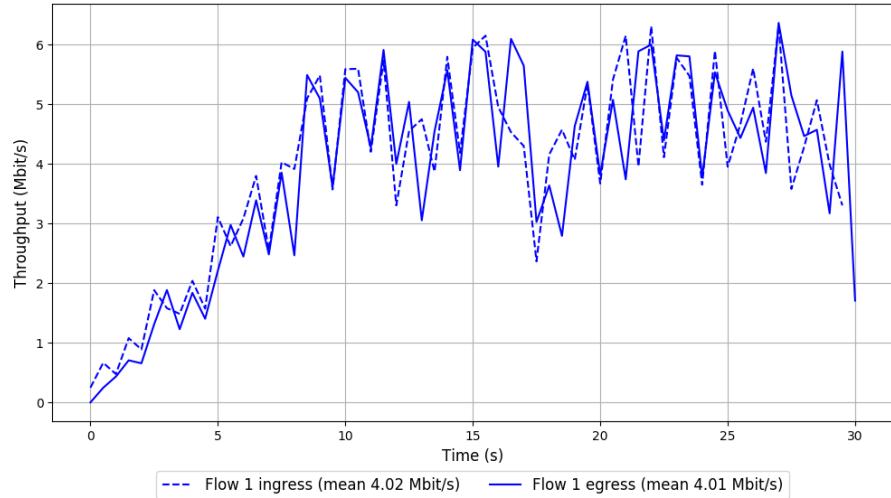


Run 1: Statistics of Sprout

```
Start at: 2019-03-26 18:50:16
End at: 2019-03-26 18:50:46
Local clock offset: 8.074 ms
Remote clock offset: 6.965 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 87.878 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 87.878 ms
Loss rate: 0.67%
```

Run 1: Report of Sprout — Data Link

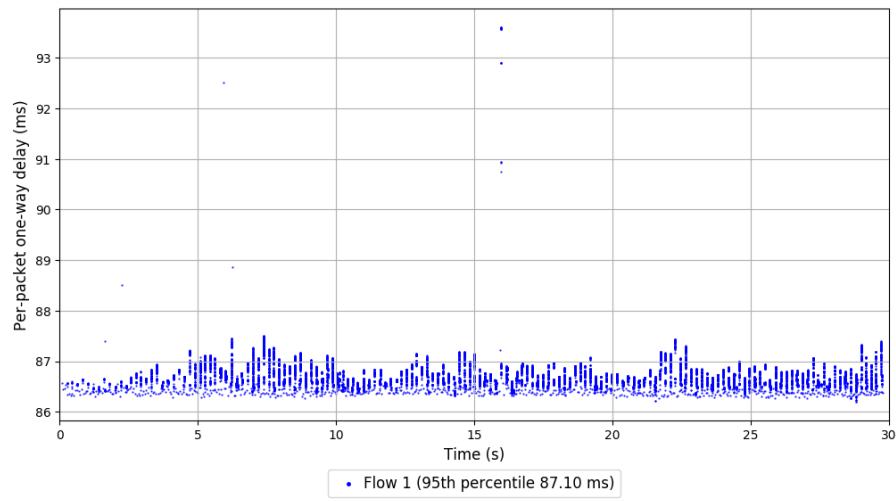
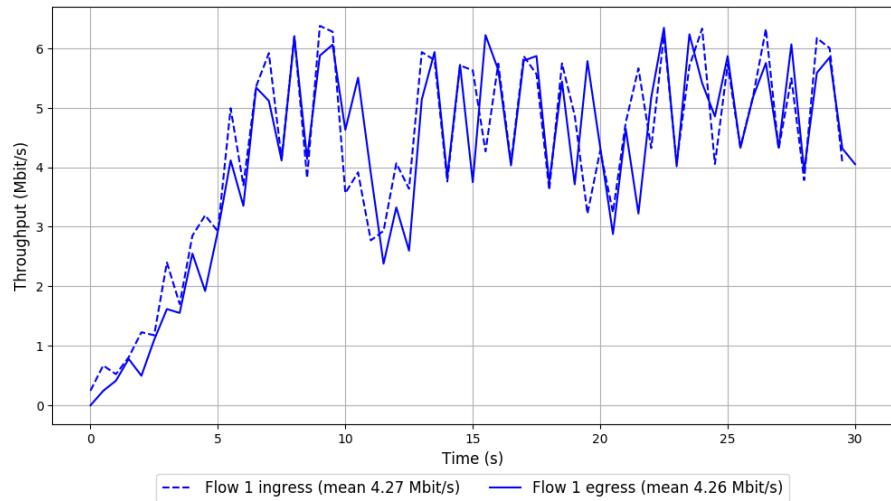


Run 2: Statistics of Sprout

```
Start at: 2019-03-26 19:20:48
End at: 2019-03-26 19:21:18
Local clock offset: 27.448 ms
Remote clock offset: 27.433 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 87.101 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 87.101 ms
Loss rate: 0.80%
```

Run 2: Report of Sprout — Data Link

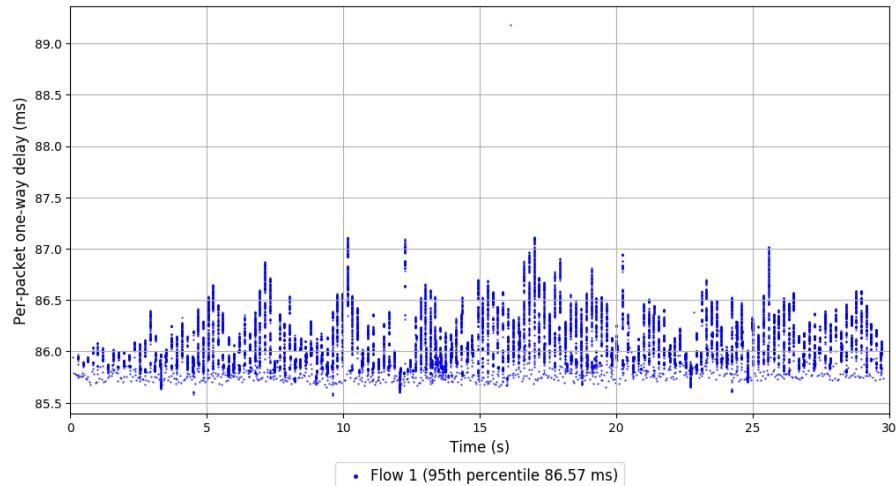
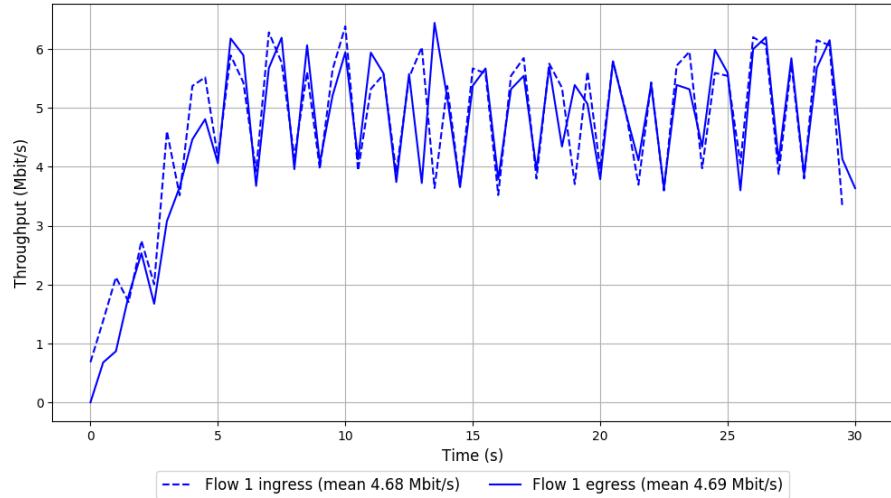


Run 3: Statistics of Sprout

```
Start at: 2019-03-26 19:51:44
End at: 2019-03-26 19:52:14
Local clock offset: 42.127 ms
Remote clock offset: 41.675 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.69 Mbit/s
95th percentile per-packet one-way delay: 86.568 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 4.69 Mbit/s
95th percentile per-packet one-way delay: 86.568 ms
Loss rate: 0.57%
```

Run 3: Report of Sprout — Data Link

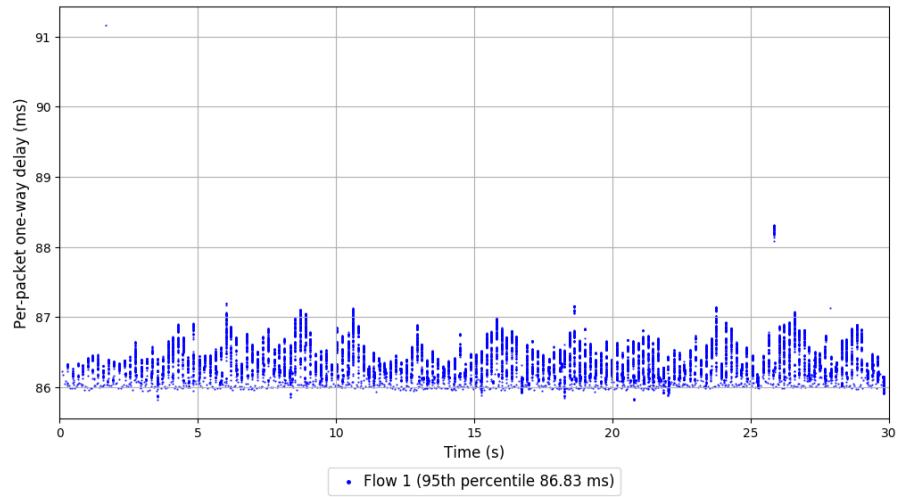
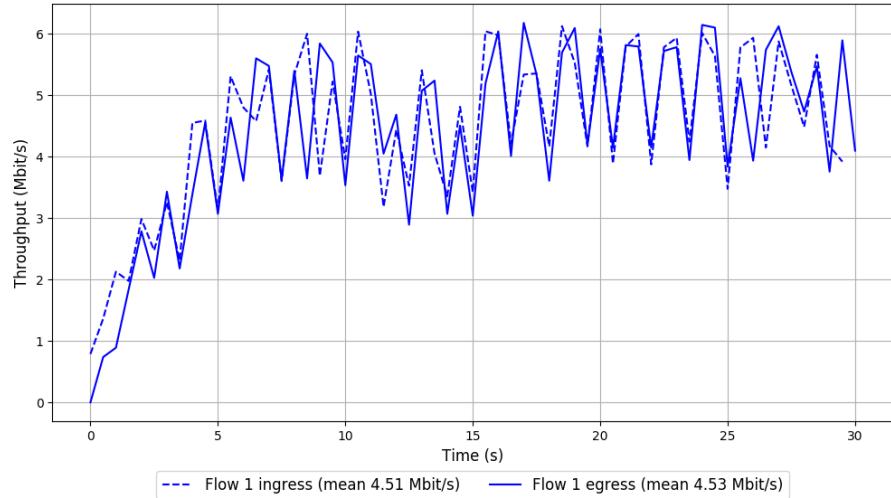


Run 4: Statistics of Sprout

```
Start at: 2019-03-26 20:22:49
End at: 2019-03-26 20:23:19
Local clock offset: 20.096 ms
Remote clock offset: 19.778 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 86.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 86.829 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

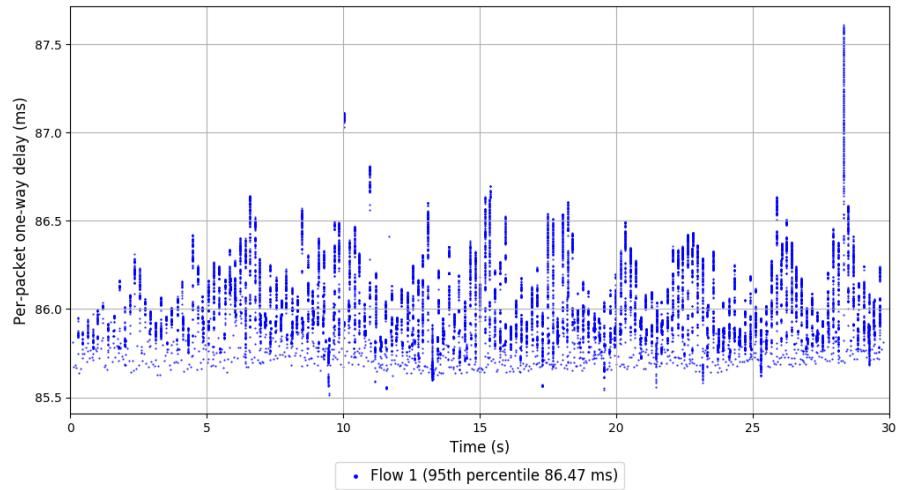
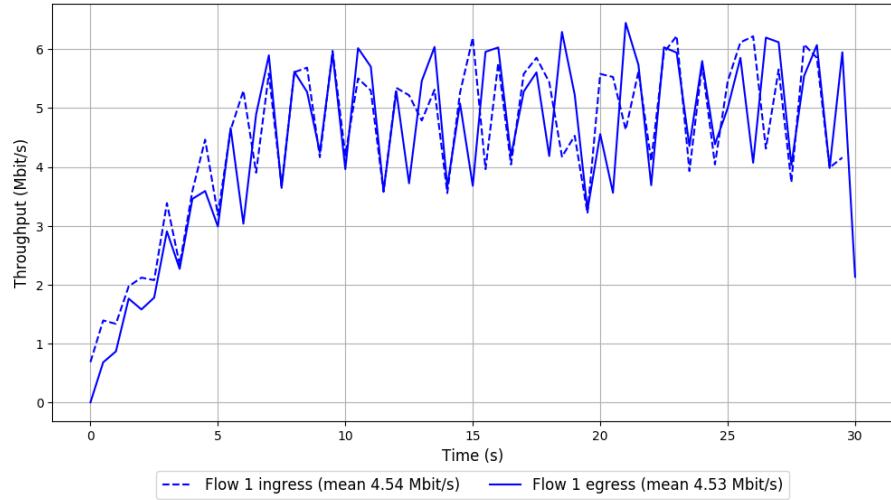


Run 5: Statistics of Sprout

```
Start at: 2019-03-26 20:54:16
End at: 2019-03-26 20:54:46
Local clock offset: 4.385 ms
Remote clock offset: 9.021 ms

# Below is generated by plot.py at 2019-03-26 22:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 86.473 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 86.473 ms
Loss rate: 0.75%
```

Run 5: Report of Sprout — Data Link

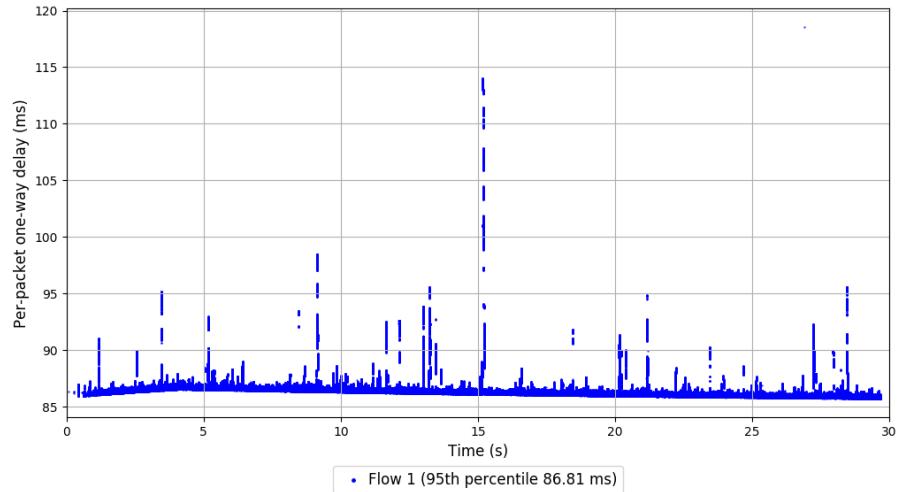
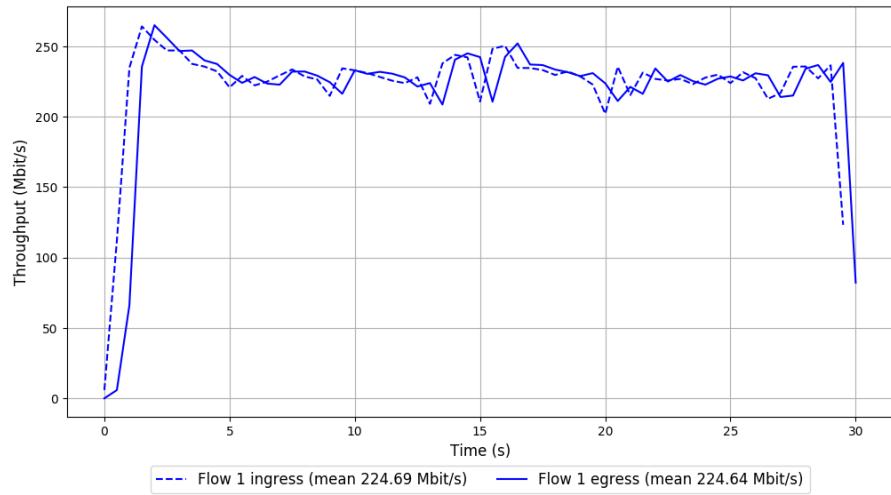


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-26 18:47:29
End at: 2019-03-26 18:47:59
Local clock offset: 4.28 ms
Remote clock offset: 4.736 ms

# Below is generated by plot.py at 2019-03-26 22:59:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.64 Mbit/s
95th percentile per-packet one-way delay: 86.815 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 224.64 Mbit/s
95th percentile per-packet one-way delay: 86.815 ms
Loss rate: 0.61%
```

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

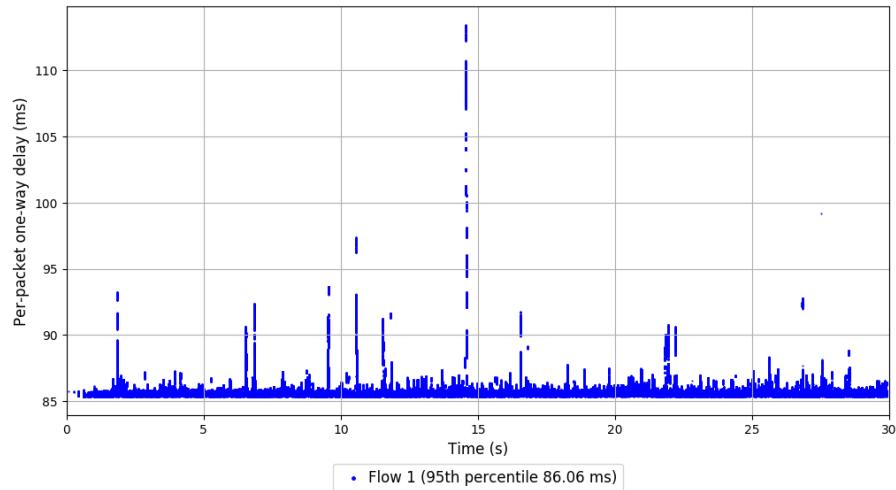
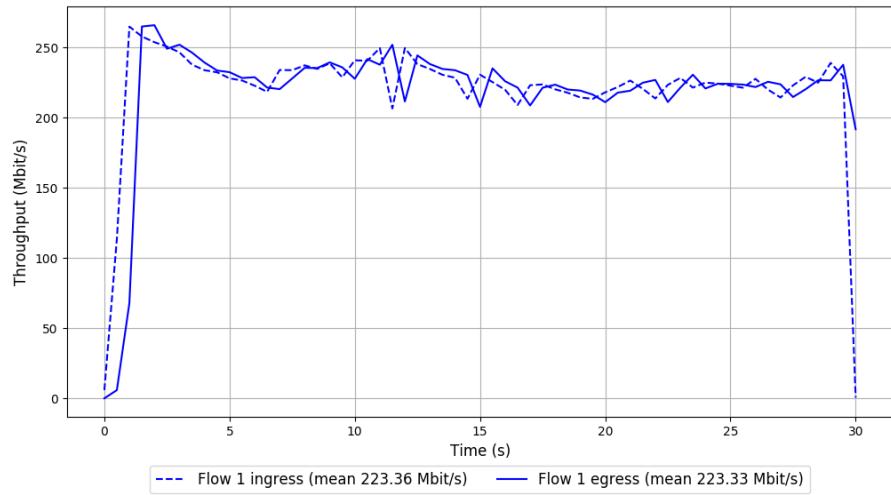


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-26 19:17:41
End at: 2019-03-26 19:18:11
Local clock offset: 26.356 ms
Remote clock offset: 26.303 ms

# Below is generated by plot.py at 2019-03-26 22:59:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.33 Mbit/s
95th percentile per-packet one-way delay: 86.065 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 223.33 Mbit/s
95th percentile per-packet one-way delay: 86.065 ms
Loss rate: 0.59%
```

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

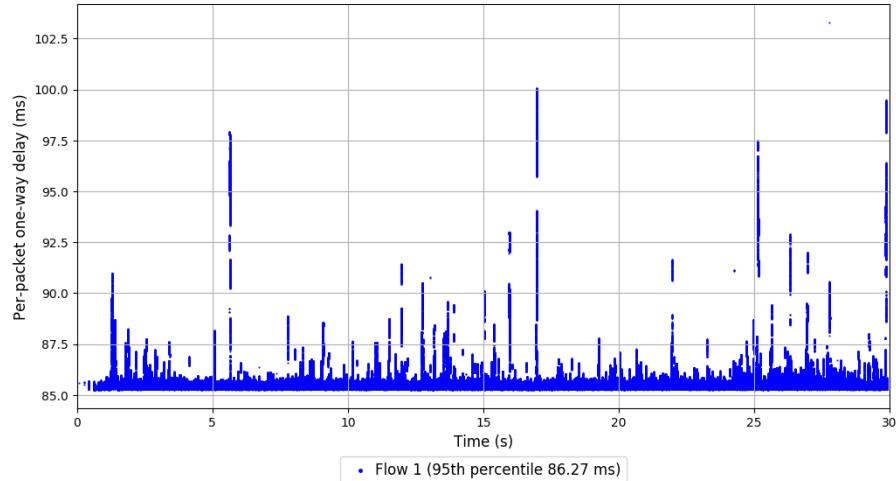
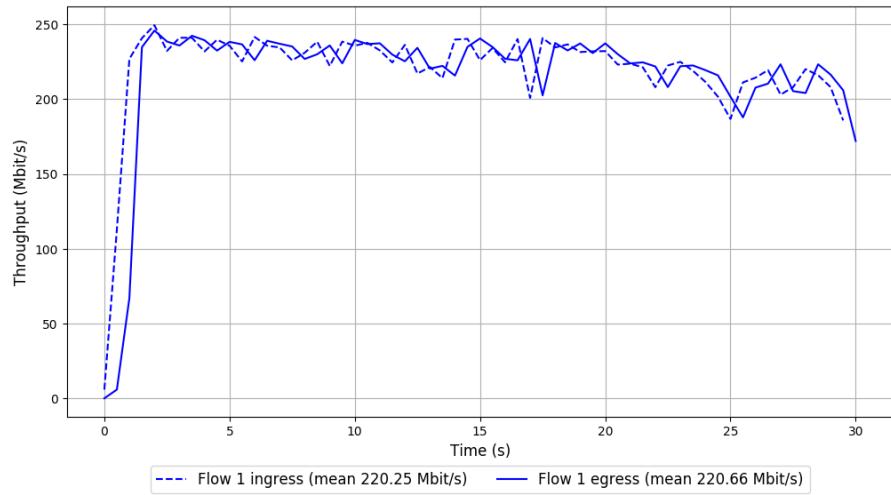


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-26 19:48:38
End at: 2019-03-26 19:49:09
Local clock offset: 38.2 ms
Remote clock offset: 38.084 ms

# Below is generated by plot.py at 2019-03-26 22:59:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.66 Mbit/s
95th percentile per-packet one-way delay: 86.272 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 220.66 Mbit/s
95th percentile per-packet one-way delay: 86.272 ms
Loss rate: 0.39%
```

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

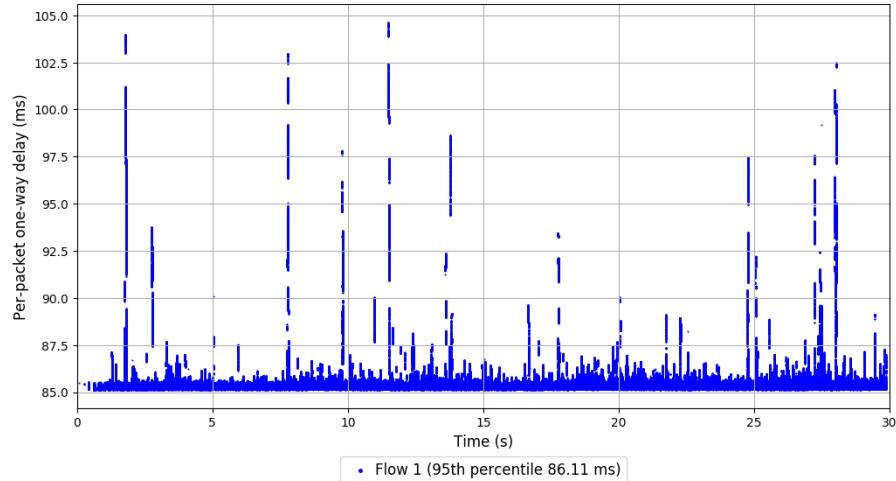
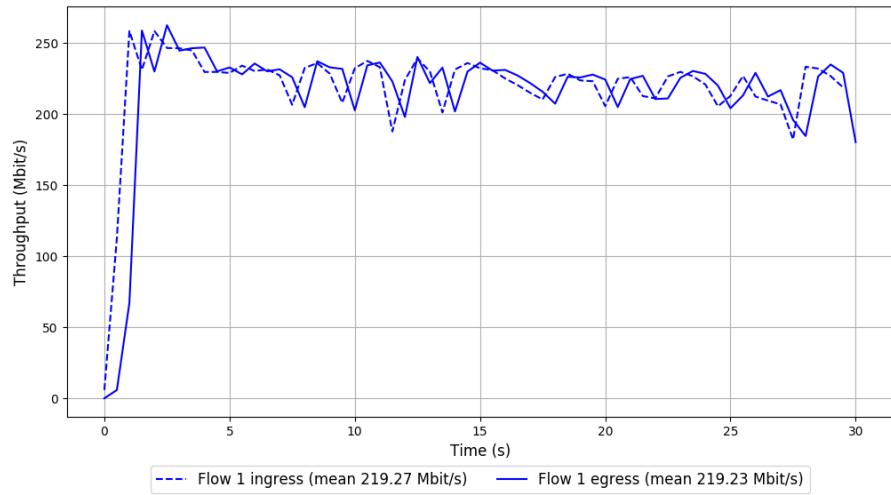


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-26 20:19:43
End at: 2019-03-26 20:20:13
Local clock offset: 18.172 ms
Remote clock offset: 18.519 ms

# Below is generated by plot.py at 2019-03-26 23:00:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.23 Mbit/s
95th percentile per-packet one-way delay: 86.106 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 219.23 Mbit/s
95th percentile per-packet one-way delay: 86.106 ms
Loss rate: 0.59%
```

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

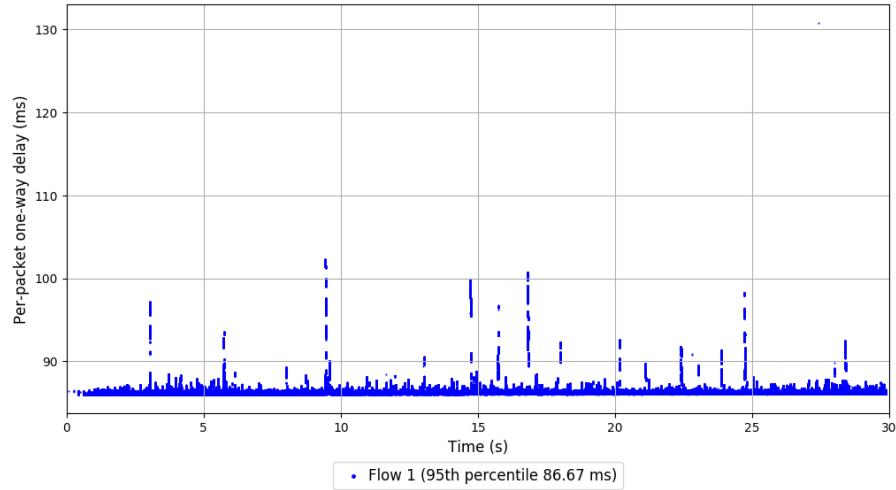
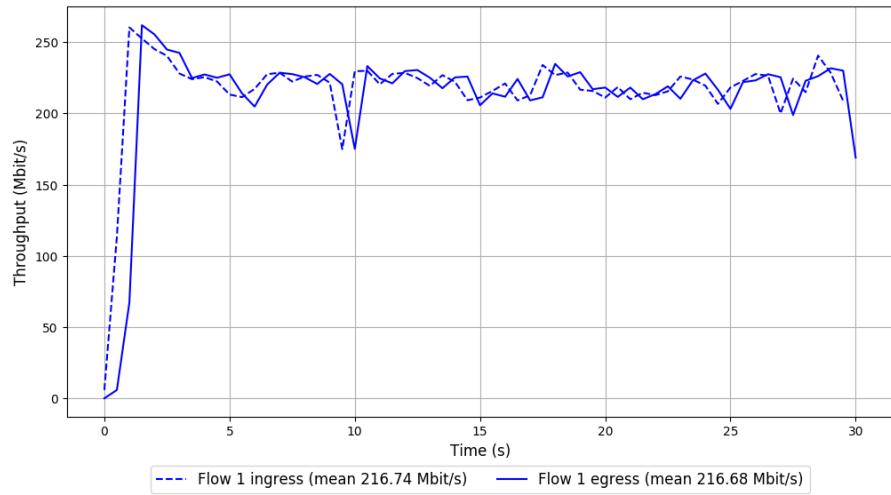


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-26 20:51:00
End at: 2019-03-26 20:51:30
Local clock offset: 4.85 ms
Remote clock offset: 8.466 ms

# Below is generated by plot.py at 2019-03-26 23:00:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.68 Mbit/s
95th percentile per-packet one-way delay: 86.675 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 216.68 Mbit/s
95th percentile per-packet one-way delay: 86.675 ms
Loss rate: 0.60%
```

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

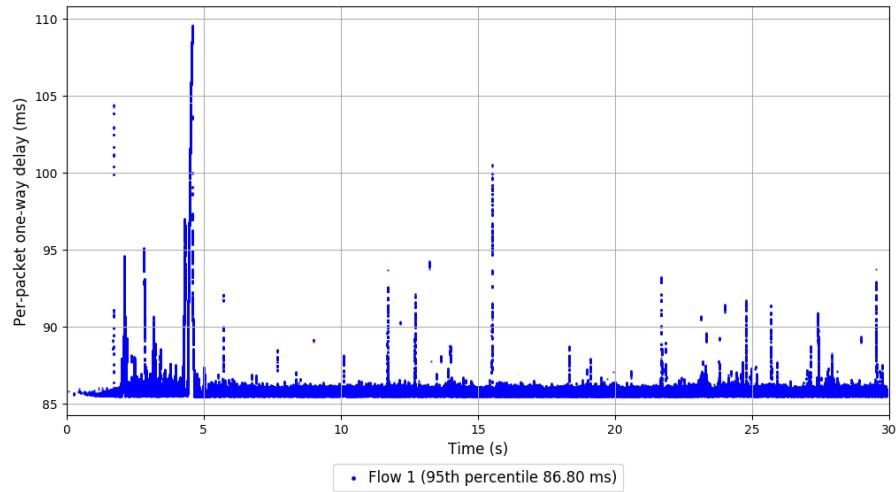
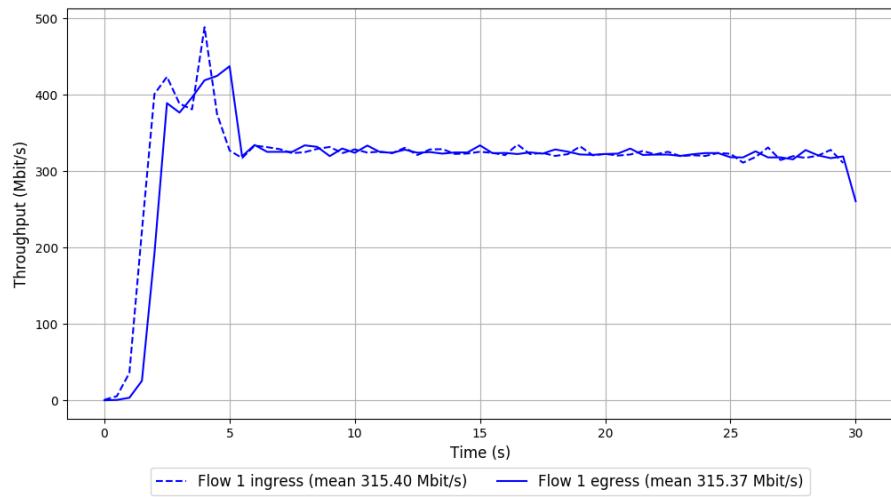


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-26 19:14:39
End at: 2019-03-26 19:15:09
Local clock offset: 21.49 ms
Remote clock offset: 21.713 ms

# Below is generated by plot.py at 2019-03-26 23:00:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.37 Mbit/s
95th percentile per-packet one-way delay: 86.797 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 315.37 Mbit/s
95th percentile per-packet one-way delay: 86.797 ms
Loss rate: 0.59%
```

Run 1: Report of TCP Vegas — Data Link

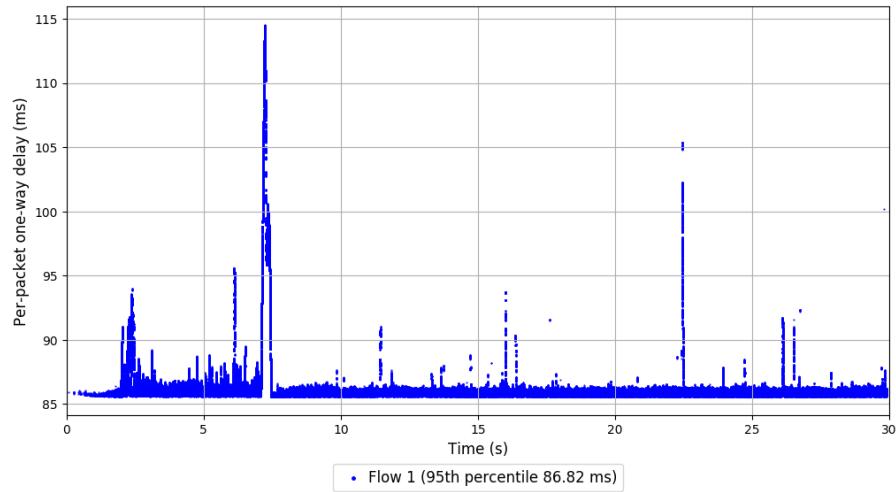
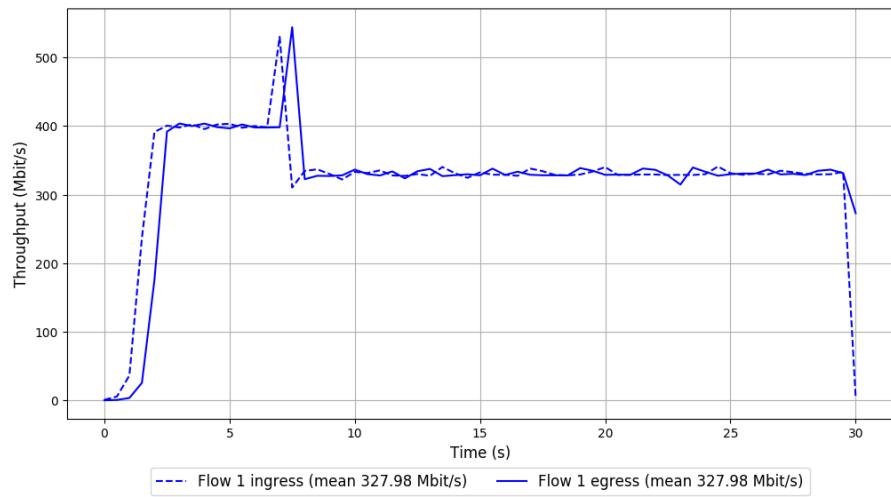


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-26 19:45:38
End at: 2019-03-26 19:46:08
Local clock offset: 35.128 ms
Remote clock offset: 34.714 ms

# Below is generated by plot.py at 2019-03-26 23:04:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.98 Mbit/s
95th percentile per-packet one-way delay: 86.824 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 327.98 Mbit/s
95th percentile per-packet one-way delay: 86.824 ms
Loss rate: 0.58%
```

Run 2: Report of TCP Vegas — Data Link

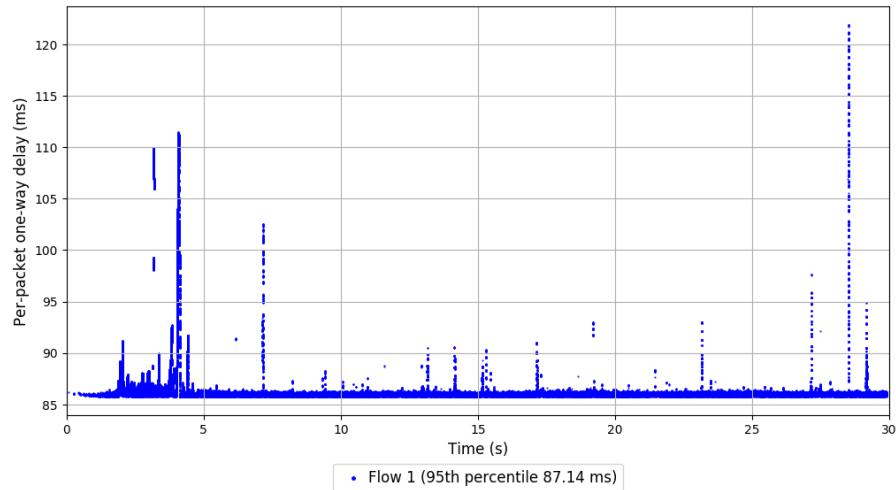
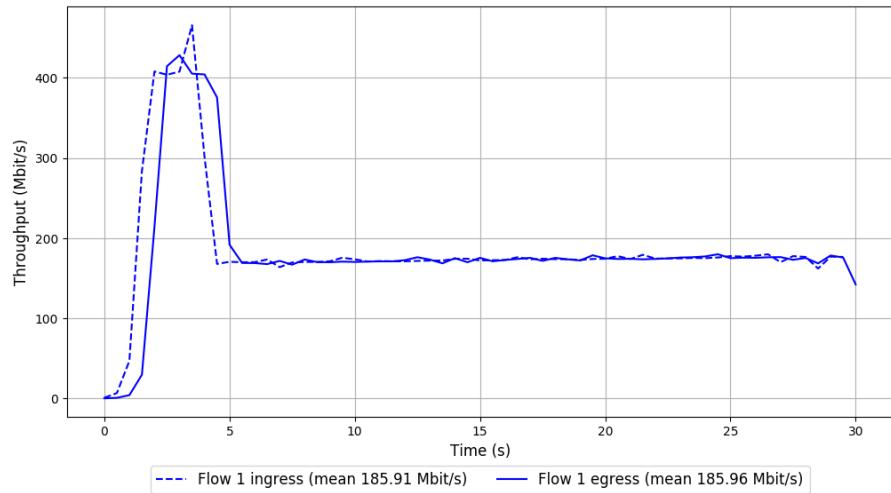


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-26 20:16:47
End at: 2019-03-26 20:17:17
Local clock offset: 17.392 ms
Remote clock offset: 17.5 ms

# Below is generated by plot.py at 2019-03-26 23:04:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.96 Mbit/s
95th percentile per-packet one-way delay: 87.135 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 185.96 Mbit/s
95th percentile per-packet one-way delay: 87.135 ms
Loss rate: 0.55%
```

Run 3: Report of TCP Vegas — Data Link

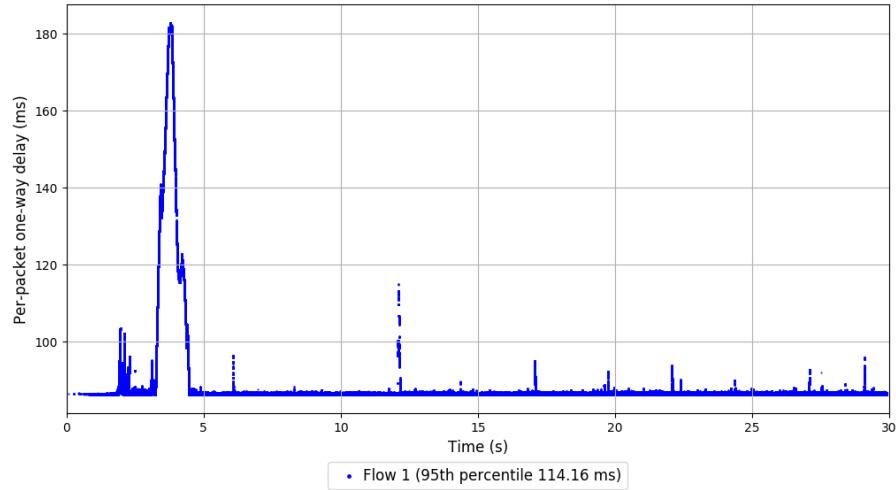
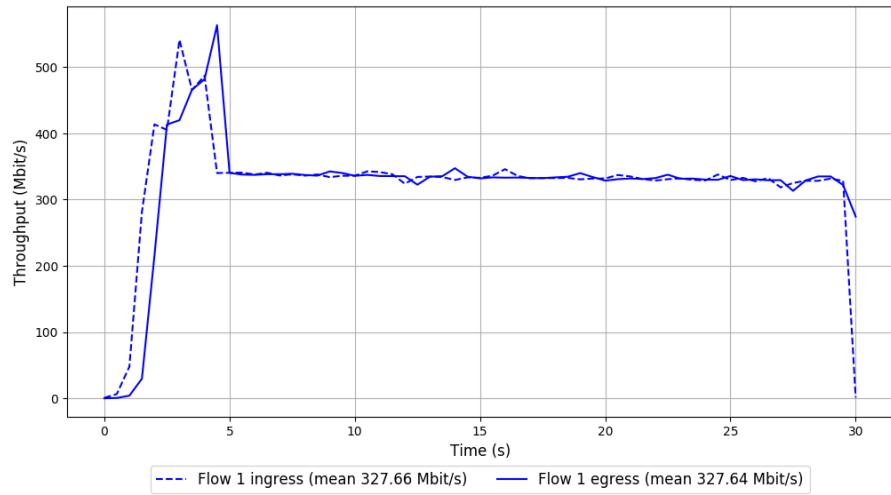


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-26 20:47:48
End at: 2019-03-26 20:48:18
Local clock offset: 5.279 ms
Remote clock offset: 8.157 ms

# Below is generated by plot.py at 2019-03-26 23:05:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.64 Mbit/s
95th percentile per-packet one-way delay: 114.158 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 327.64 Mbit/s
95th percentile per-packet one-way delay: 114.158 ms
Loss rate: 0.58%
```

Run 4: Report of TCP Vegas — Data Link

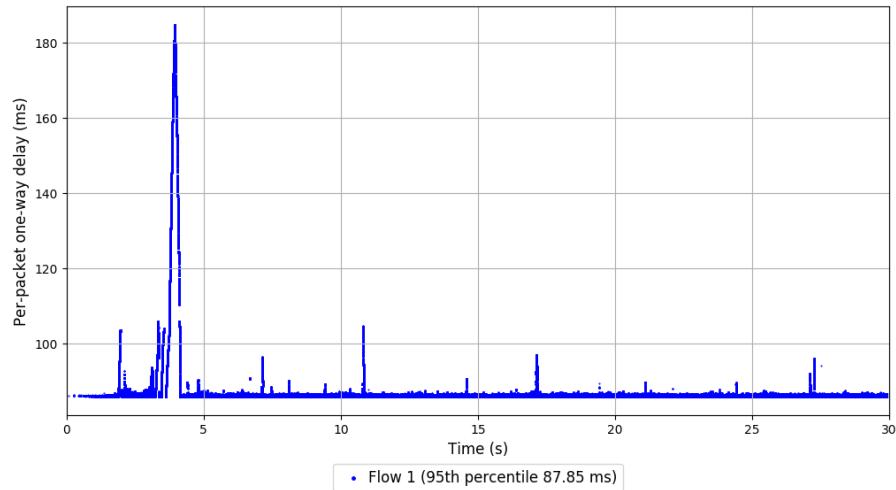
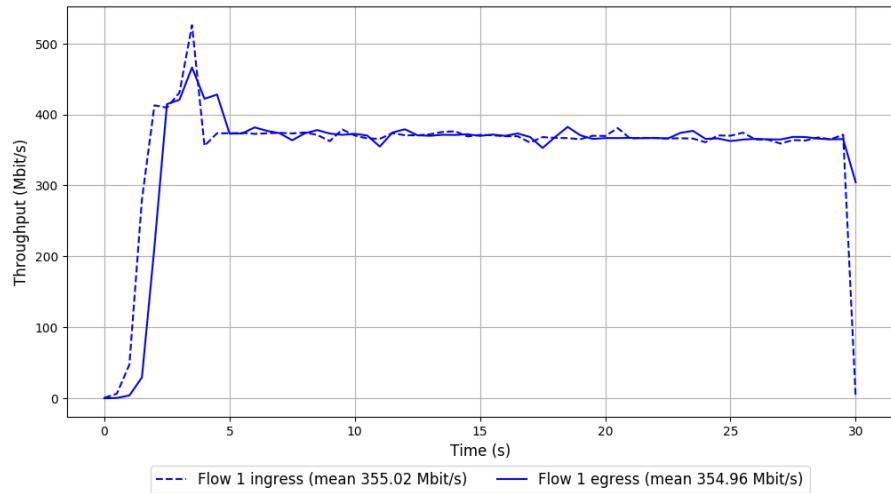


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-26 21:19:03
End at: 2019-03-26 21:19:33
Local clock offset: 1.859 ms
Remote clock offset: 4.088 ms

# Below is generated by plot.py at 2019-03-26 23:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 354.96 Mbit/s
95th percentile per-packet one-way delay: 87.846 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 354.96 Mbit/s
95th percentile per-packet one-way delay: 87.846 ms
Loss rate: 0.59%
```

Run 5: Report of TCP Vegas — Data Link

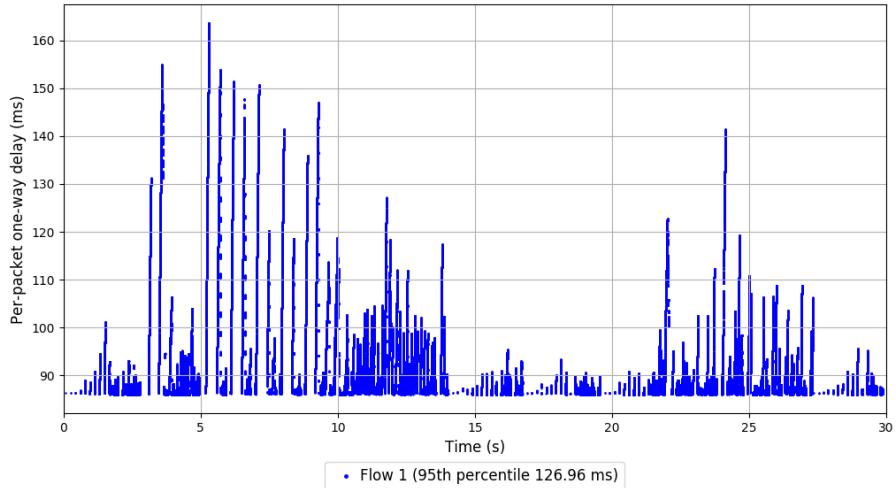
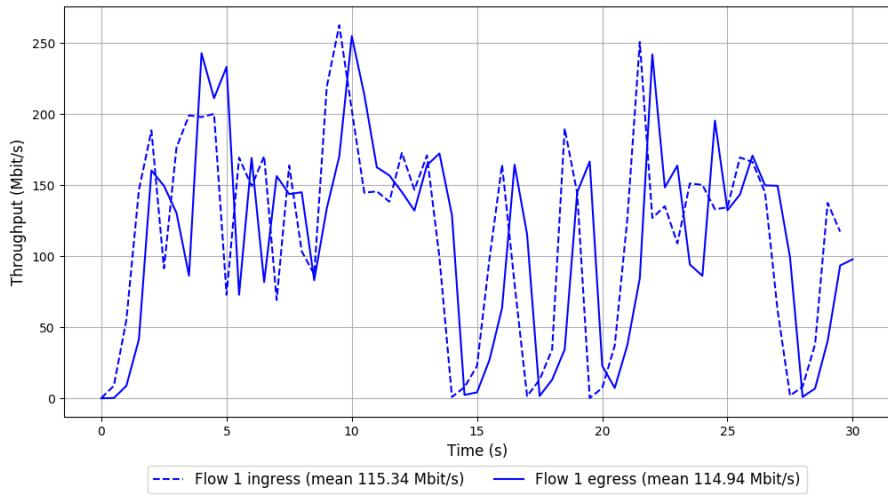


Run 1: Statistics of Verus

```
Start at: 2019-03-26 18:56:54
End at: 2019-03-26 18:57:24
Local clock offset: 9.95 ms
Remote clock offset: 9.921 ms

# Below is generated by plot.py at 2019-03-26 23:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 114.94 Mbit/s
95th percentile per-packet one-way delay: 126.957 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 114.94 Mbit/s
95th percentile per-packet one-way delay: 126.957 ms
Loss rate: 0.92%
```

Run 1: Report of Verus — Data Link

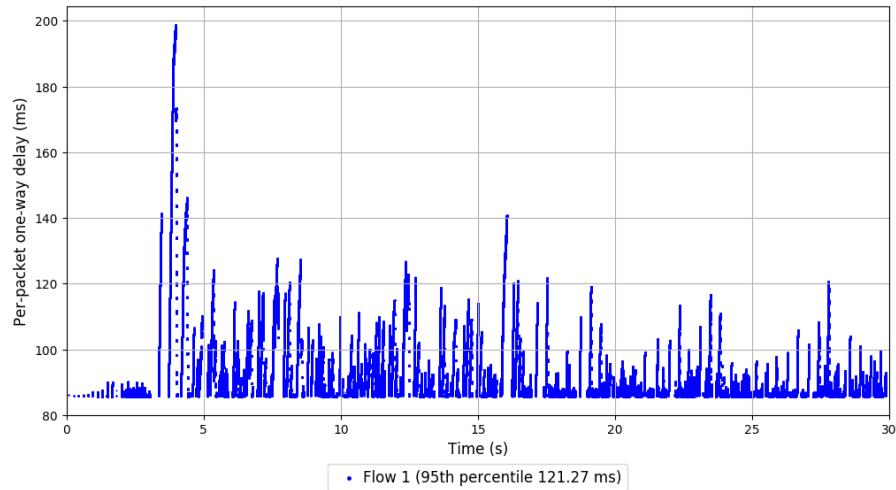
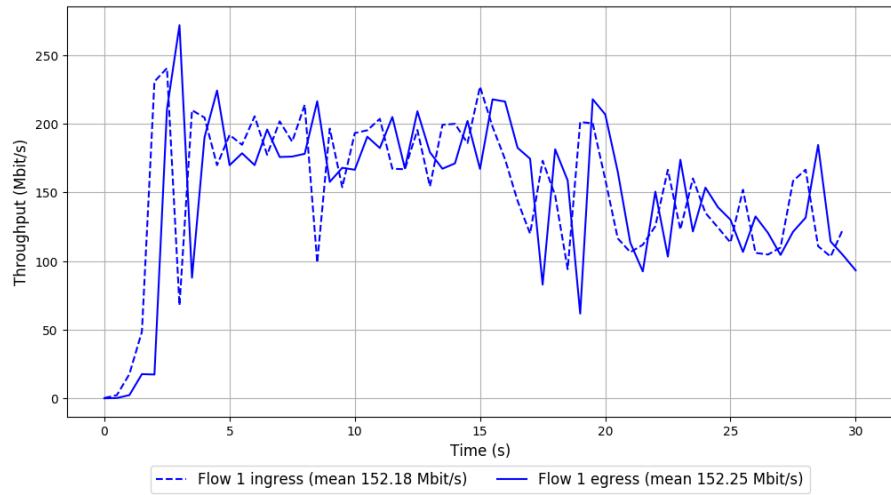


Run 2: Statistics of Verus

```
Start at: 2019-03-26 19:28:01
End at: 2019-03-26 19:28:31
Local clock offset: 21.636 ms
Remote clock offset: 21.849 ms

# Below is generated by plot.py at 2019-03-26 23:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.25 Mbit/s
95th percentile per-packet one-way delay: 121.266 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 152.25 Mbit/s
95th percentile per-packet one-way delay: 121.266 ms
Loss rate: 0.53%
```

Run 2: Report of Verus — Data Link

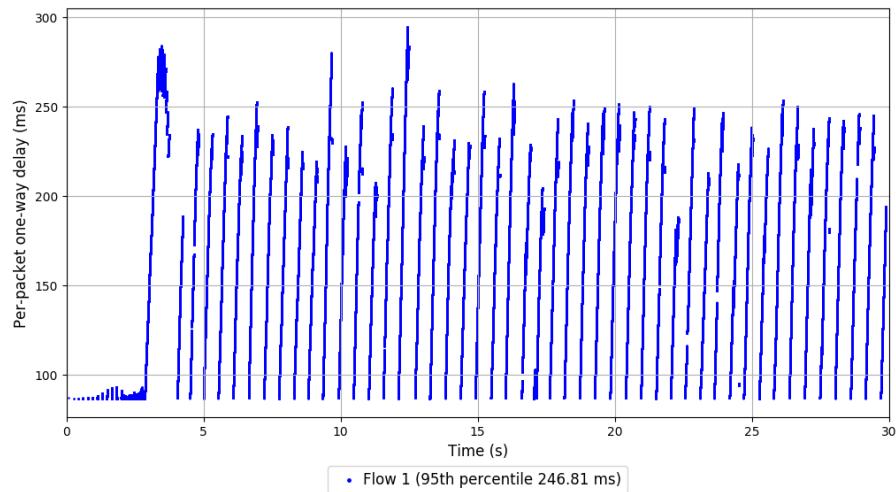
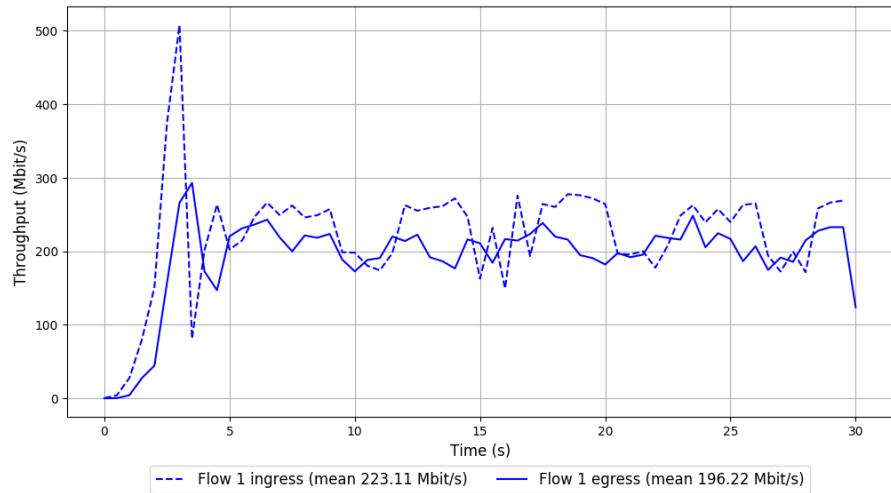


Run 3: Statistics of Verus

```
Start at: 2019-03-26 19:58:54
End at: 2019-03-26 19:59:24
Local clock offset: 28.808 ms
Remote clock offset: 27.957 ms

# Below is generated by plot.py at 2019-03-26 23:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.22 Mbit/s
95th percentile per-packet one-way delay: 246.811 ms
Loss rate: 12.08%
-- Flow 1:
Average throughput: 196.22 Mbit/s
95th percentile per-packet one-way delay: 246.811 ms
Loss rate: 12.08%
```

Run 3: Report of Verus — Data Link

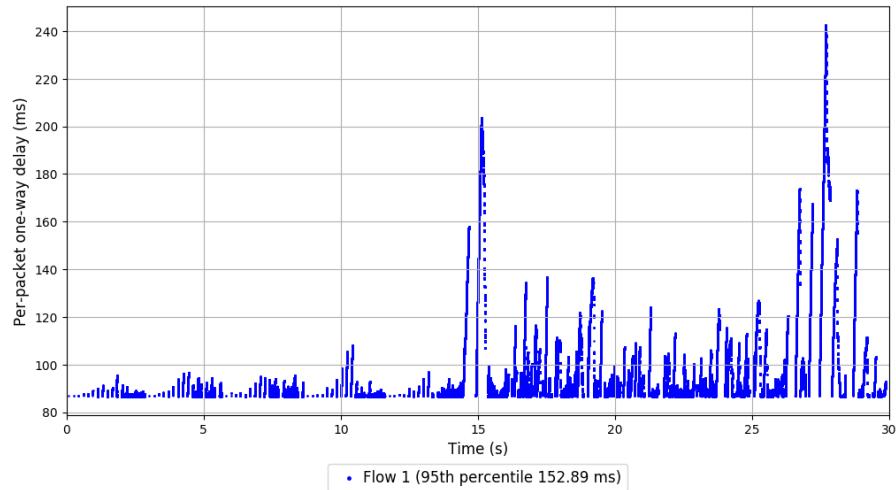
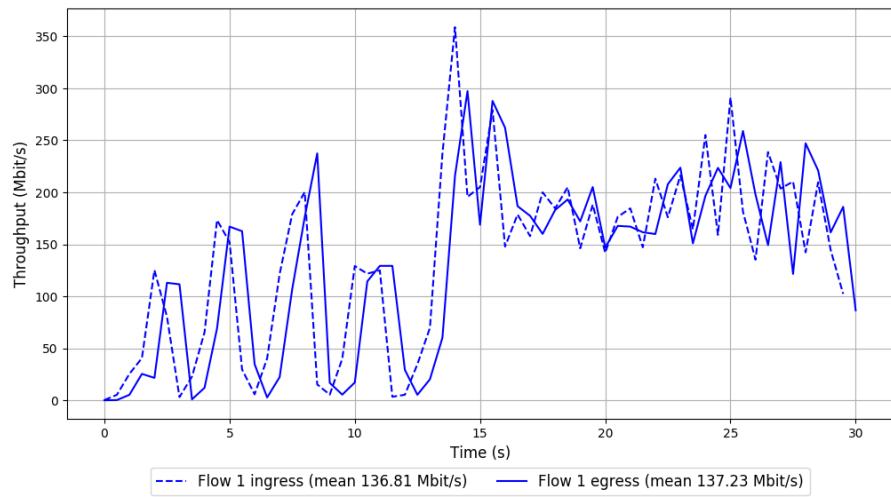


Run 4: Statistics of Verus

```
Start at: 2019-03-26 20:30:20
End at: 2019-03-26 20:30:50
Local clock offset: 17.807 ms
Remote clock offset: 17.609 ms

# Below is generated by plot.py at 2019-03-26 23:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 137.23 Mbit/s
95th percentile per-packet one-way delay: 152.891 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 137.23 Mbit/s
95th percentile per-packet one-way delay: 152.891 ms
Loss rate: 0.28%
```

Run 4: Report of Verus — Data Link

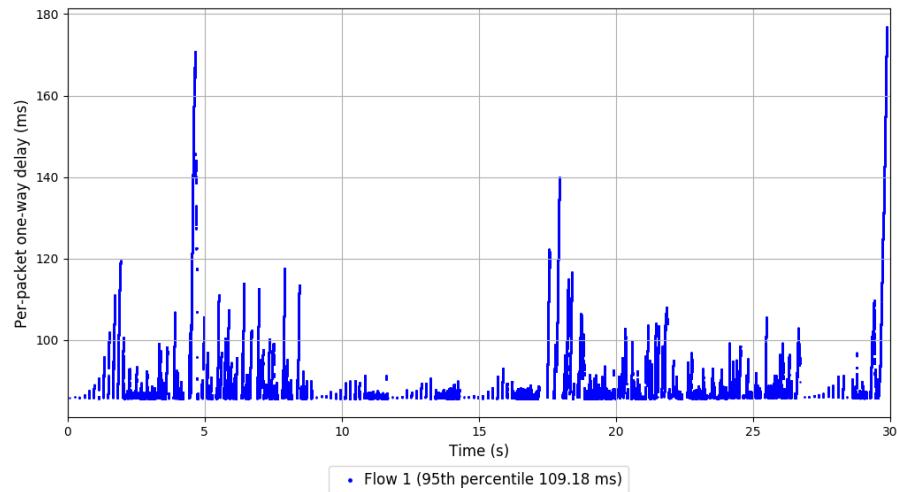
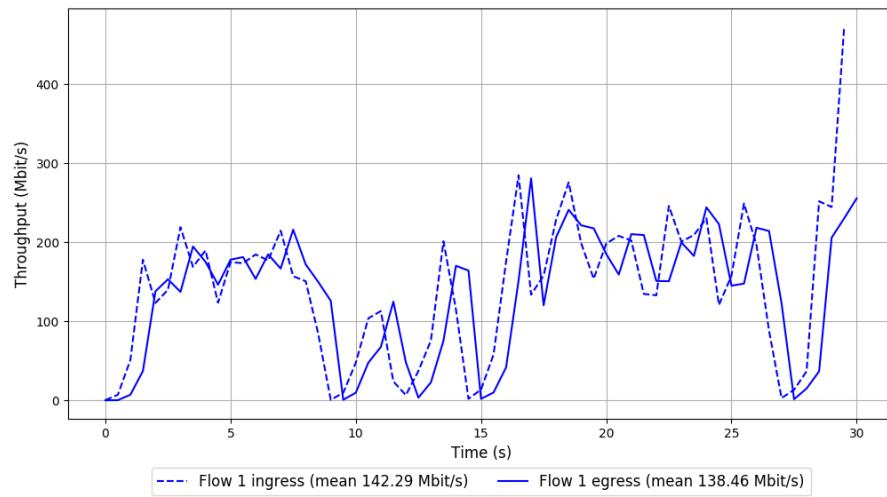


Run 5: Statistics of Verus

```
Start at: 2019-03-26 21:01:32
End at: 2019-03-26 21:02:02
Local clock offset: 4.814 ms
Remote clock offset: 10.593 ms

# Below is generated by plot.py at 2019-03-26 23:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.46 Mbit/s
95th percentile per-packet one-way delay: 109.181 ms
Loss rate: 3.25%
-- Flow 1:
Average throughput: 138.46 Mbit/s
95th percentile per-packet one-way delay: 109.181 ms
Loss rate: 3.25%
```

Run 5: Report of Verus — Data Link

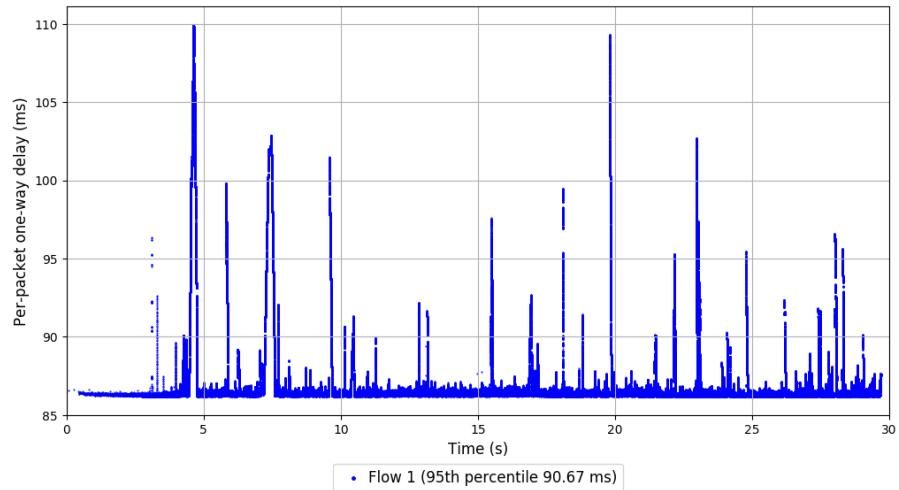
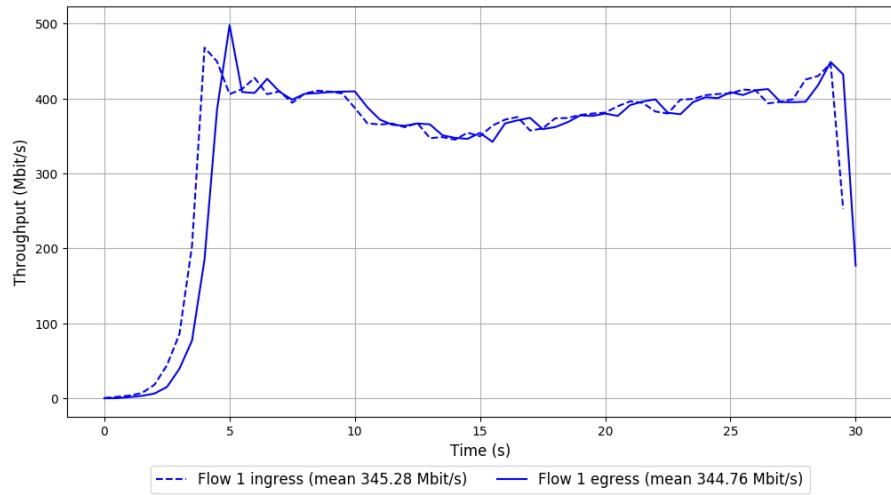


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-03-26 19:05:14
End at: 2019-03-26 19:05:44
Local clock offset: 15.462 ms
Remote clock offset: 15.288 ms

# Below is generated by plot.py at 2019-03-26 23:09:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 344.76 Mbit/s
95th percentile per-packet one-way delay: 90.668 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 344.76 Mbit/s
95th percentile per-packet one-way delay: 90.668 ms
Loss rate: 0.73%
```

Run 1: Report of PCC-Vivace — Data Link

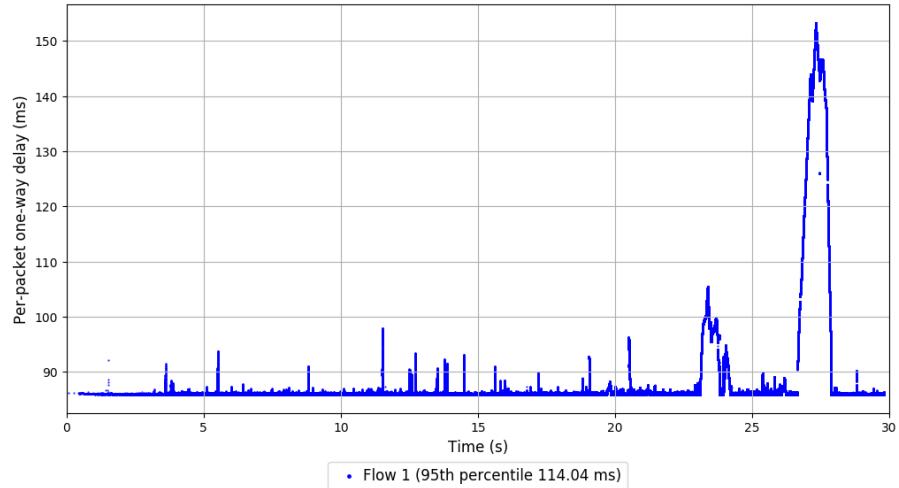
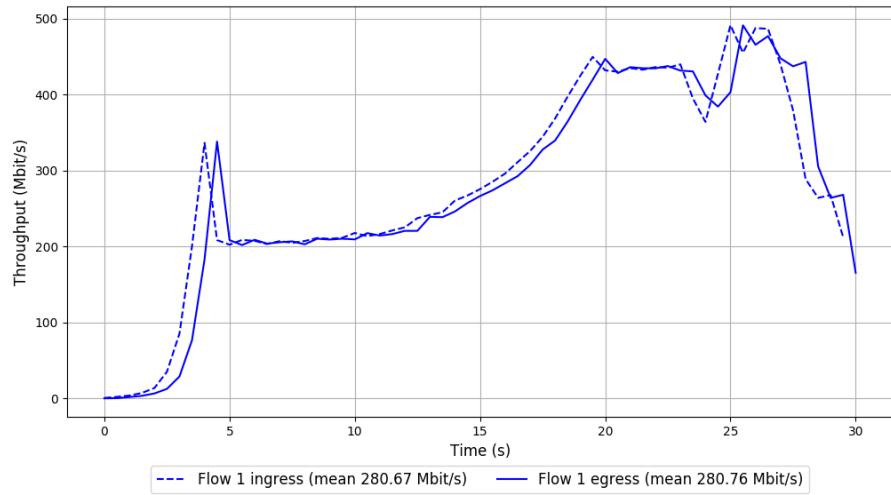


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-26 19:36:29
End at: 2019-03-26 19:36:59
Local clock offset: 26.119 ms
Remote clock offset: 25.619 ms

# Below is generated by plot.py at 2019-03-26 23:09:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.76 Mbit/s
95th percentile per-packet one-way delay: 114.036 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 280.76 Mbit/s
95th percentile per-packet one-way delay: 114.036 ms
Loss rate: 0.55%
```

Run 2: Report of PCC-Vivace — Data Link

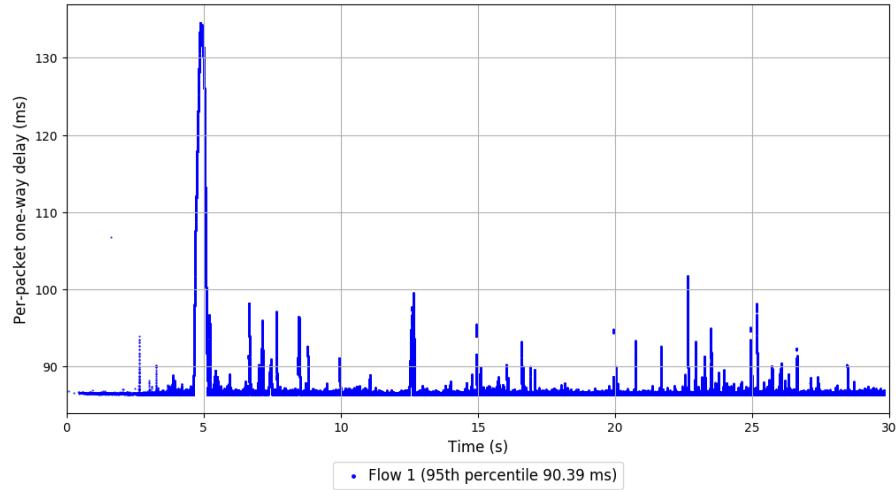
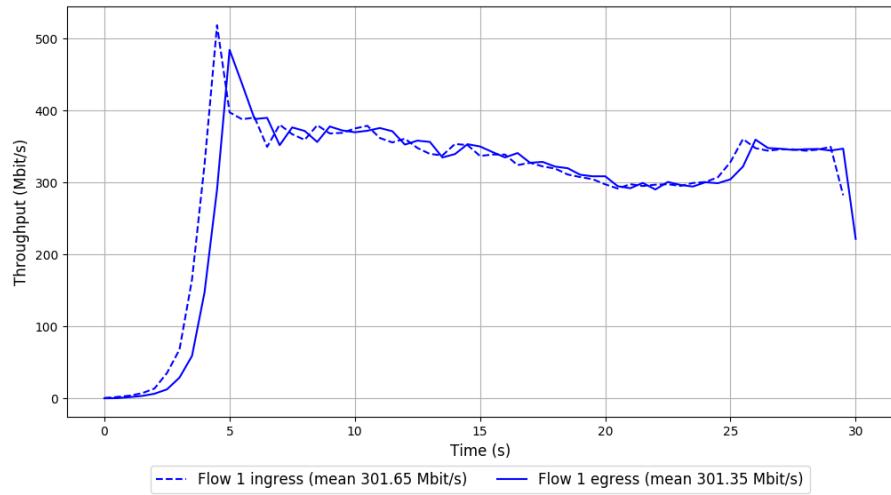


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-26 20:07:38
End at: 2019-03-26 20:08:08
Local clock offset: 18.155 ms
Remote clock offset: 17.472 ms

# Below is generated by plot.py at 2019-03-26 23:09:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 301.35 Mbit/s
95th percentile per-packet one-way delay: 90.391 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 301.35 Mbit/s
95th percentile per-packet one-way delay: 90.391 ms
Loss rate: 0.68%
```

Run 3: Report of PCC-Vivace — Data Link

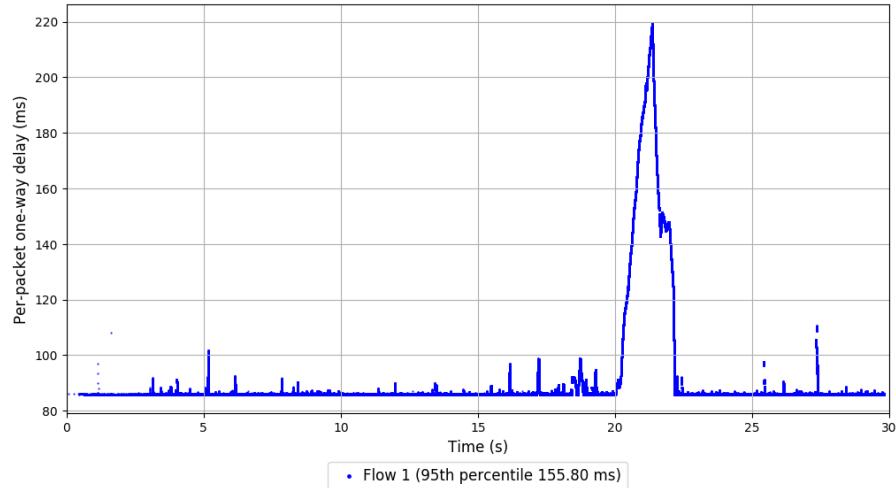
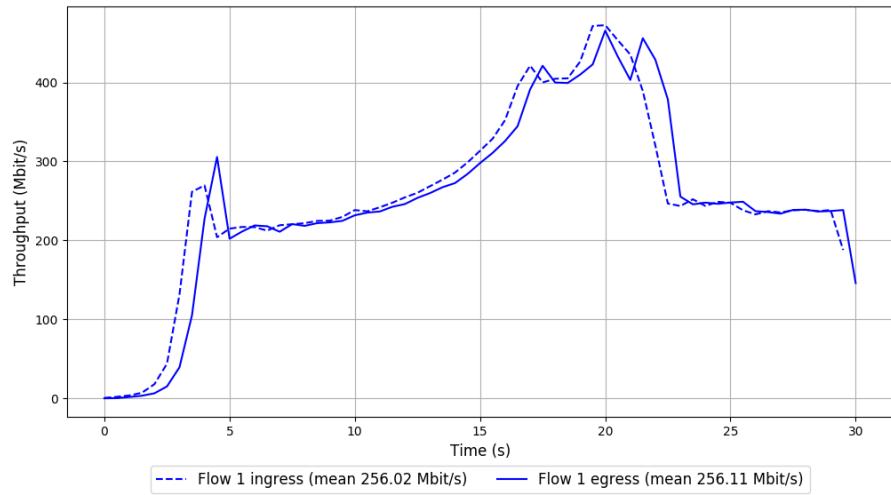


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-26 20:38:44
End at: 2019-03-26 20:39:14
Local clock offset: 7.724 ms
Remote clock offset: 9.619 ms

# Below is generated by plot.py at 2019-03-26 23:09:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.11 Mbit/s
95th percentile per-packet one-way delay: 155.803 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 256.11 Mbit/s
95th percentile per-packet one-way delay: 155.803 ms
Loss rate: 0.54%
```

Run 4: Report of PCC-Vivace — Data Link

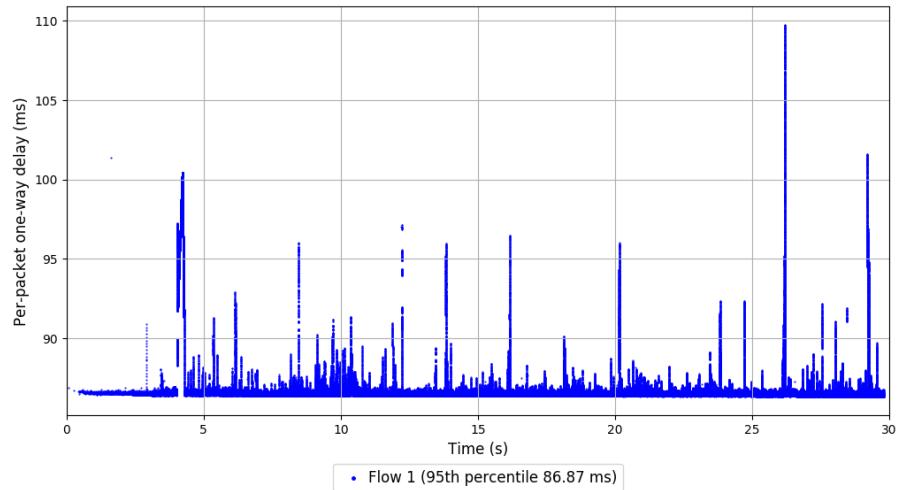
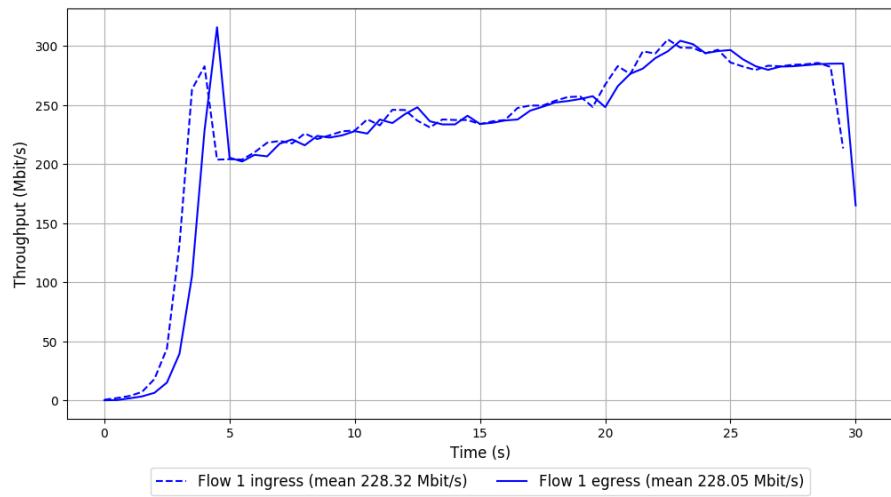


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-26 21:09:54
End at: 2019-03-26 21:10:24
Local clock offset: 2.852 ms
Remote clock offset: 5.519 ms

# Below is generated by plot.py at 2019-03-26 23:09:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.05 Mbit/s
95th percentile per-packet one-way delay: 86.871 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 228.05 Mbit/s
95th percentile per-packet one-way delay: 86.871 ms
Loss rate: 0.70%
```

Run 5: Report of PCC-Vivace — Data Link

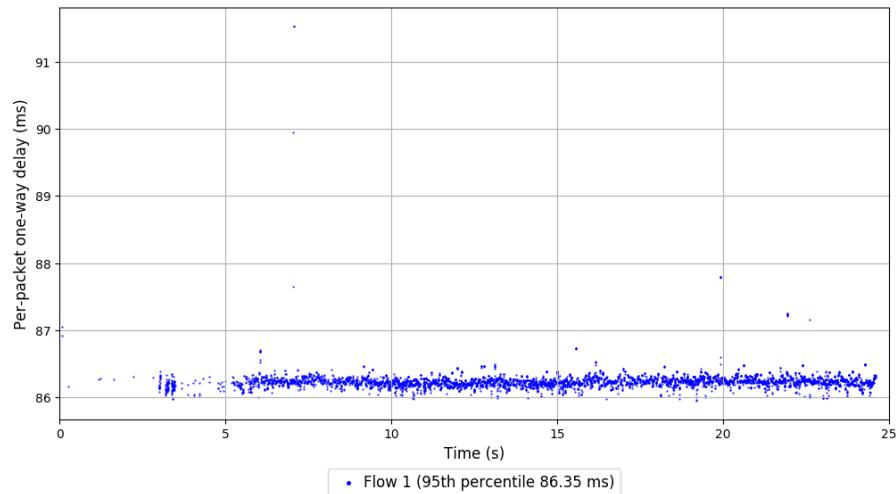
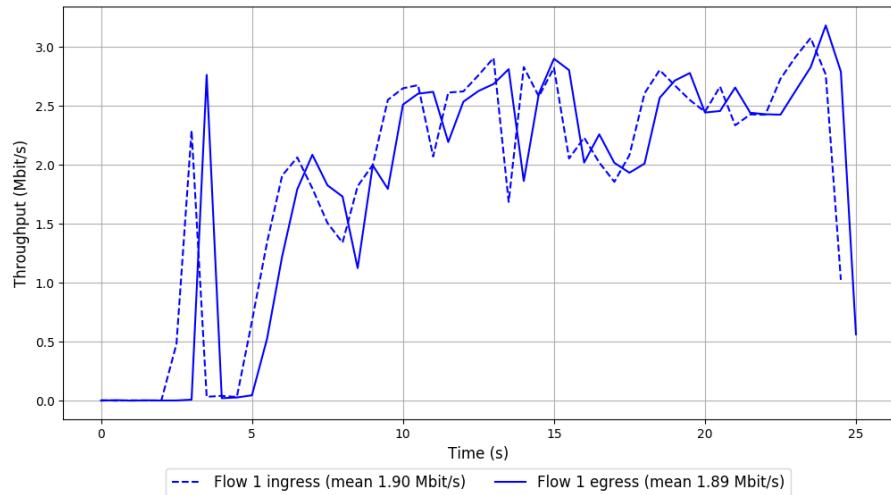


Run 1: Statistics of WebRTC media

```
Start at: 2019-03-26 19:02:33
End at: 2019-03-26 19:03:03
Local clock offset: 19.344 ms
Remote clock offset: 19.604 ms

# Below is generated by plot.py at 2019-03-26 23:09:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 86.351 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 86.351 ms
Loss rate: 0.98%
```

Run 1: Report of WebRTC media — Data Link

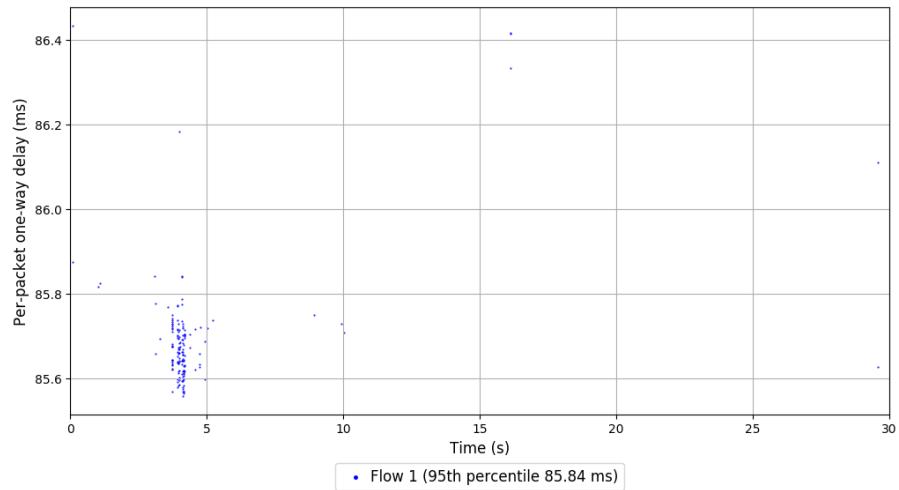
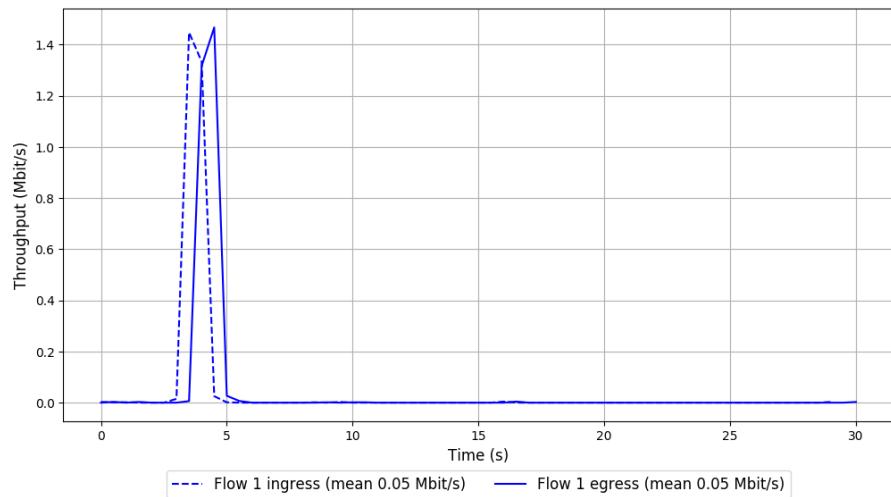


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-26 19:33:48
End at: 2019-03-26 19:34:18
Local clock offset: 23.839 ms
Remote clock offset: 23.718 ms

# Below is generated by plot.py at 2019-03-26 23:09:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.841 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.841 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

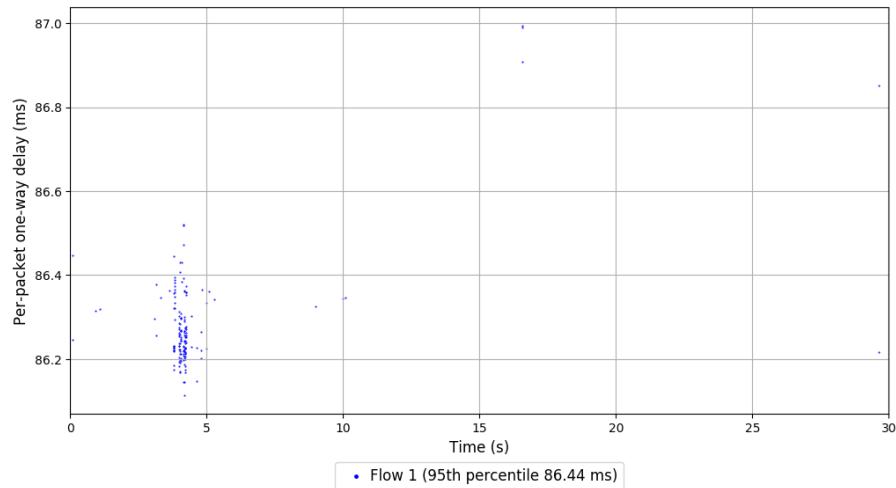
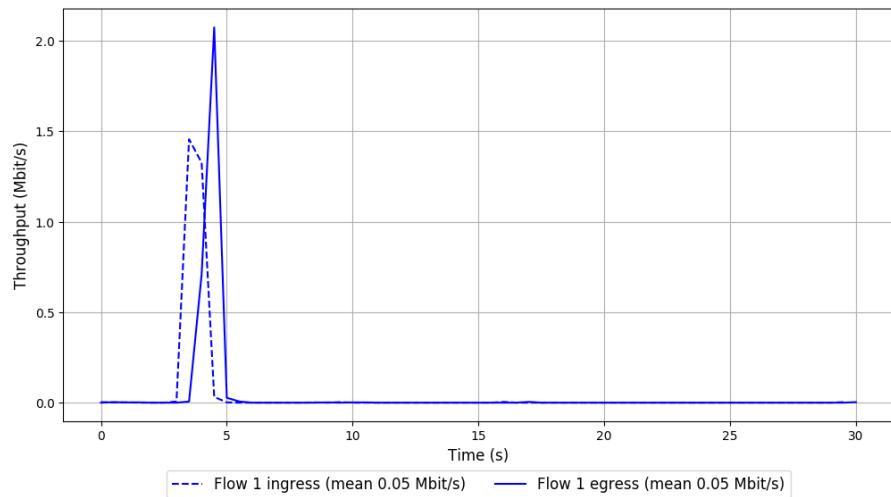


Run 3: Statistics of WebRTC media

```
Start at: 2019-03-26 20:04:52
End at: 2019-03-26 20:05:22
Local clock offset: 19.643 ms
Remote clock offset: 19.231 ms

# Below is generated by plot.py at 2019-03-26 23:09:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.444 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.444 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

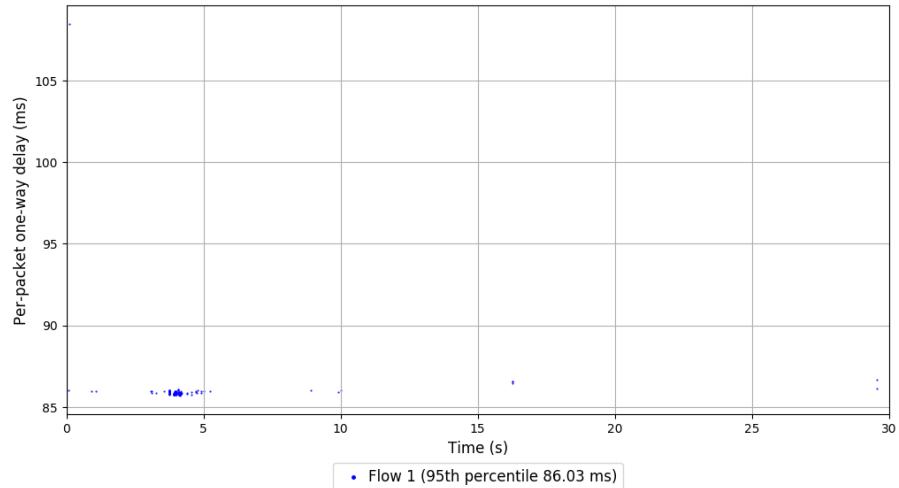
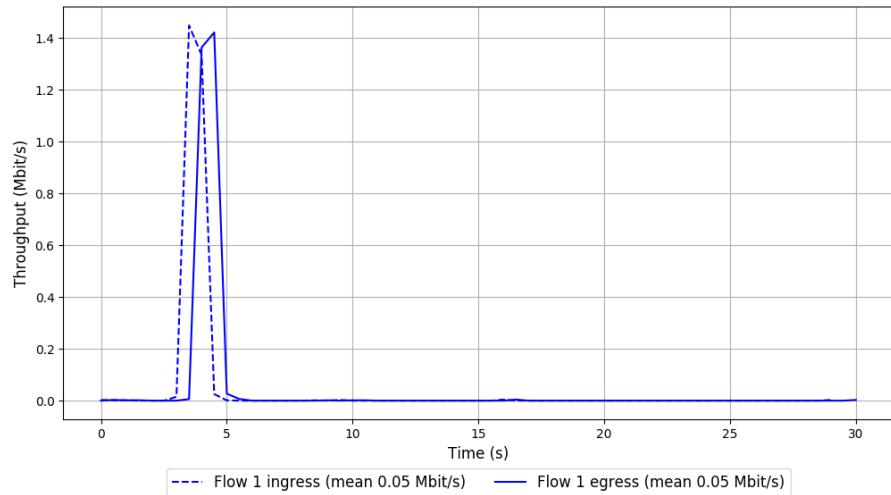


Run 4: Statistics of WebRTC media

```
Start at: 2019-03-26 20:36:03
End at: 2019-03-26 20:36:33
Local clock offset: 9.659 ms
Remote clock offset: 11.198 ms

# Below is generated by plot.py at 2019-03-26 23:09:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.033 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-03-26 21:07:15
End at: 2019-03-26 21:07:45
Local clock offset: 2.921 ms
Remote clock offset: 6.776 ms

# Below is generated by plot.py at 2019-03-26 23:09:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 86.312 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 86.312 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

