

Pantheon Report

Generated at 2019-01-21 08:50:18 (UTC).
Data path: GCE Sydney on `ens4 (local)` → GCE Iowa on `ens4 (remote)`.
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:

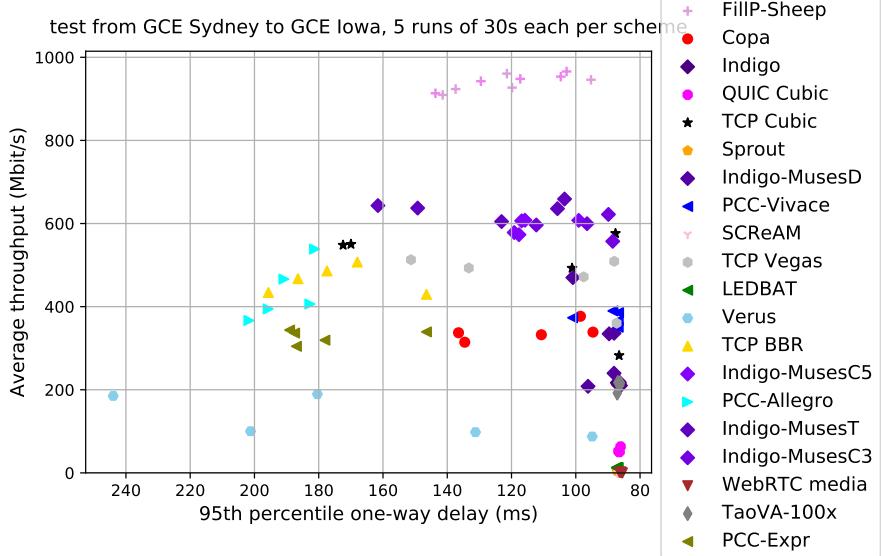
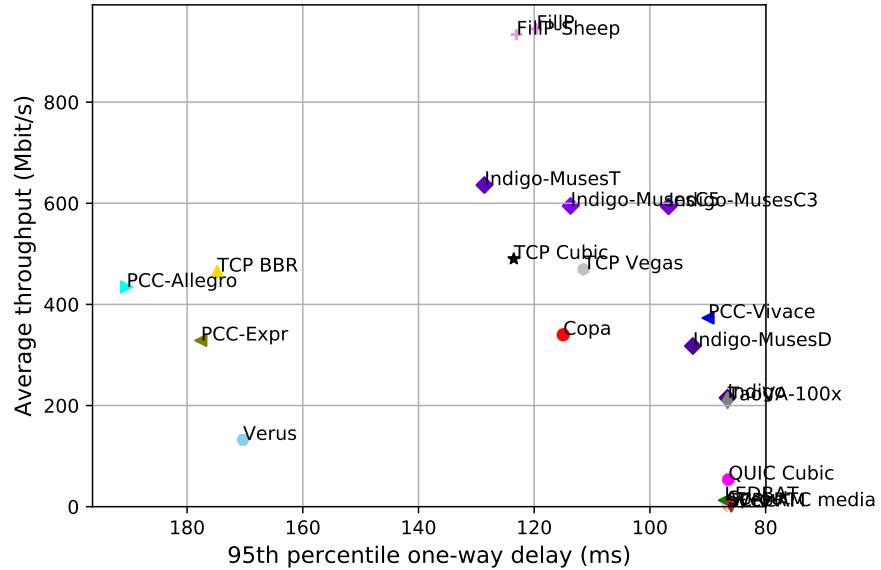
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



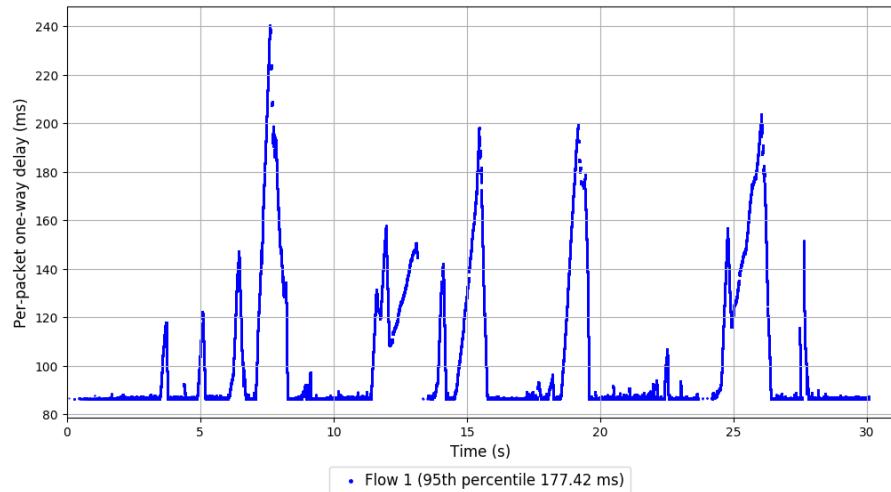
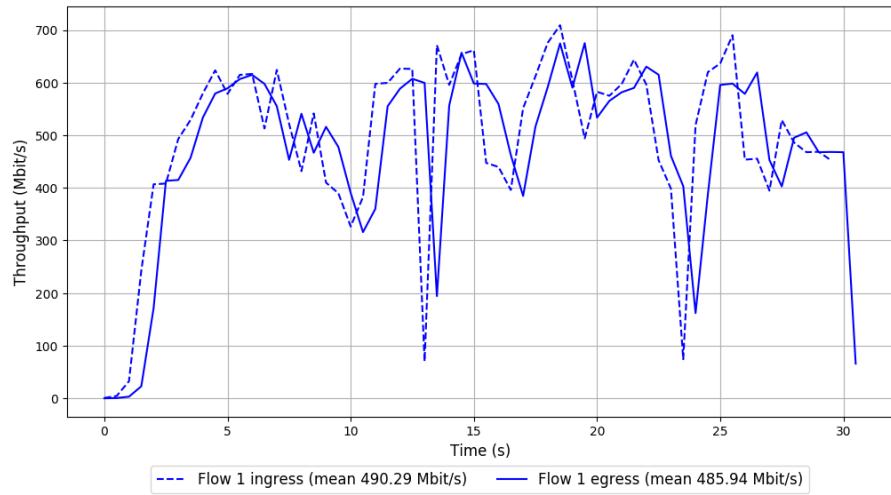
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	464.88	174.79	0.71
Copa	5	339.90	114.99	0.00
TCP Cubic	5	489.92	123.54	0.07
FillP	5	944.66	119.60	0.59
FillP-Sheep	5	933.35	123.07	0.60
Indigo	5	215.25	86.60	0.00
Indigo-MusesC3	4	593.79	96.78	0.00
Indigo-MusesC5	5	594.70	113.72	0.02
Indigo-MusesD	5	317.71	92.58	0.02
Indigo-MusesT	5	635.99	128.61	0.19
LEDBAT	5	12.60	87.13	0.00
PCC-Allegro	5	434.46	190.46	1.08
PCC-Expr	5	328.63	177.62	2.49
QUIC Cubic	5	53.64	86.44	0.00
SCReAM	5	0.22	86.75	0.00
Sprout	5	4.44	86.56	0.00
TaoVA-100x	5	210.36	86.58	0.02
TCP Vegas	5	469.38	111.49	0.08
Verus	5	132.08	170.33	3.62
PCC-Vivace	5	373.11	89.95	0.00
WebRTC media	5	1.10	85.93	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-21 03:39:46
End at: 2019-01-21 03:40:16
Local clock offset: 6.932 ms
Remote clock offset: 6.961 ms

# Below is generated by plot.py at 2019-01-21 06:37:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 485.94 Mbit/s
95th percentile per-packet one-way delay: 177.416 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 485.94 Mbit/s
95th percentile per-packet one-way delay: 177.416 ms
Loss rate: 0.89%
```

Run 1: Report of TCP BBR — Data Link

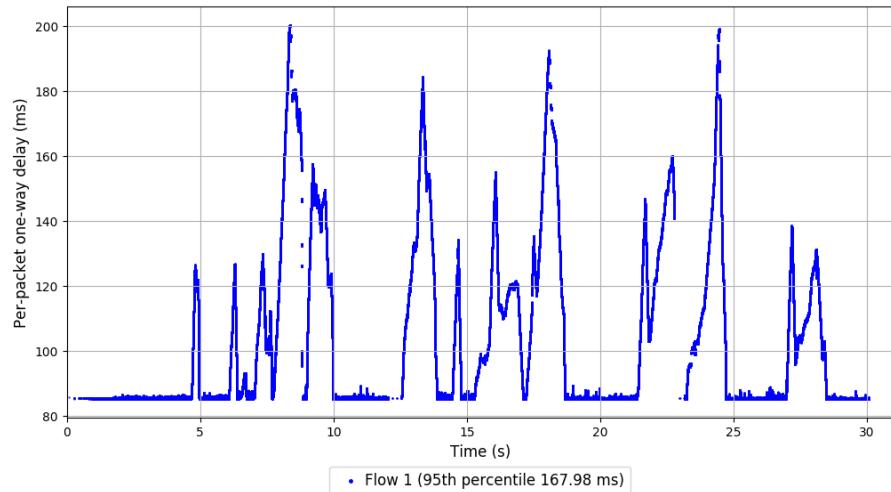
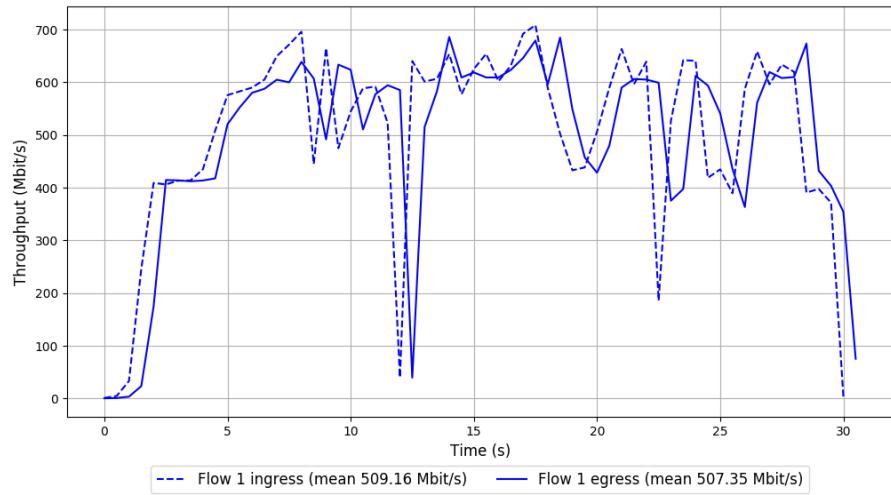


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-21 04:11:26
End at: 2019-01-21 04:11:56
Local clock offset: 22.801 ms
Remote clock offset: 21.676 ms

# Below is generated by plot.py at 2019-01-21 06:38:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 507.35 Mbit/s
95th percentile per-packet one-way delay: 167.977 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 507.35 Mbit/s
95th percentile per-packet one-way delay: 167.977 ms
Loss rate: 0.36%
```

Run 2: Report of TCP BBR — Data Link

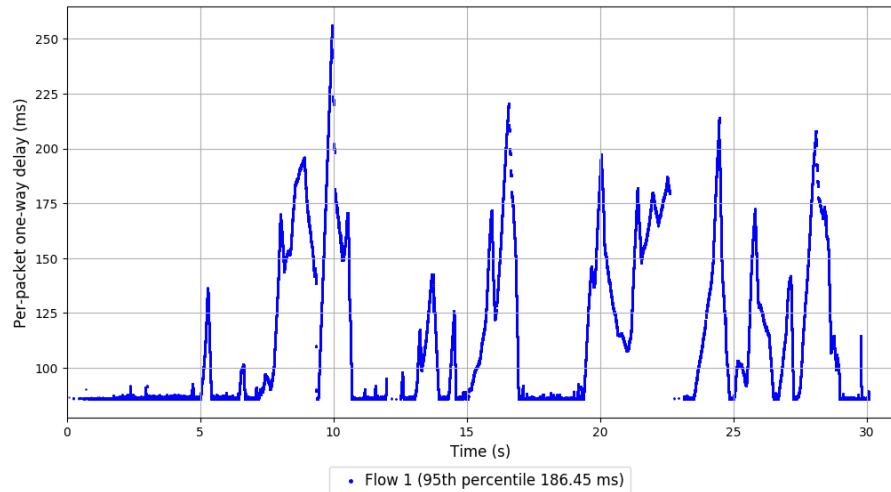
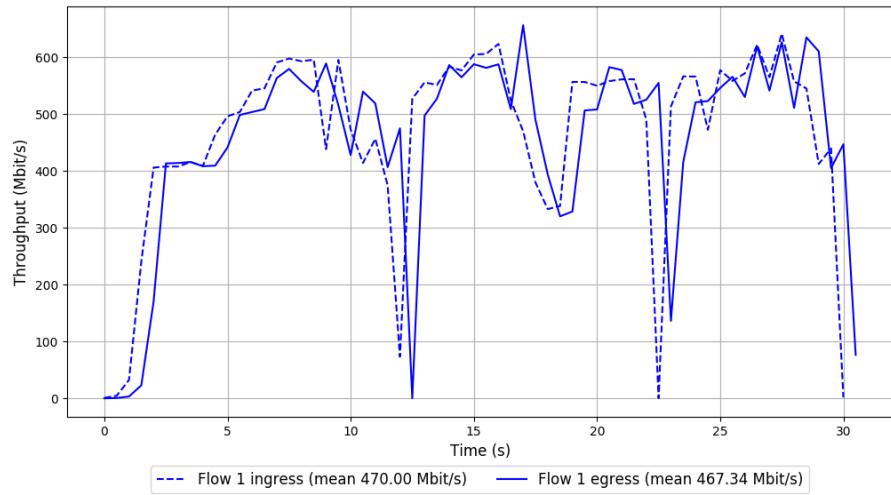


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-21 04:43:03
End at: 2019-01-21 04:43:33
Local clock offset: 36.174 ms
Remote clock offset: 35.392 ms

# Below is generated by plot.py at 2019-01-21 06:38:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 467.34 Mbit/s
95th percentile per-packet one-way delay: 186.454 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 467.34 Mbit/s
95th percentile per-packet one-way delay: 186.454 ms
Loss rate: 0.57%
```

Run 3: Report of TCP BBR — Data Link

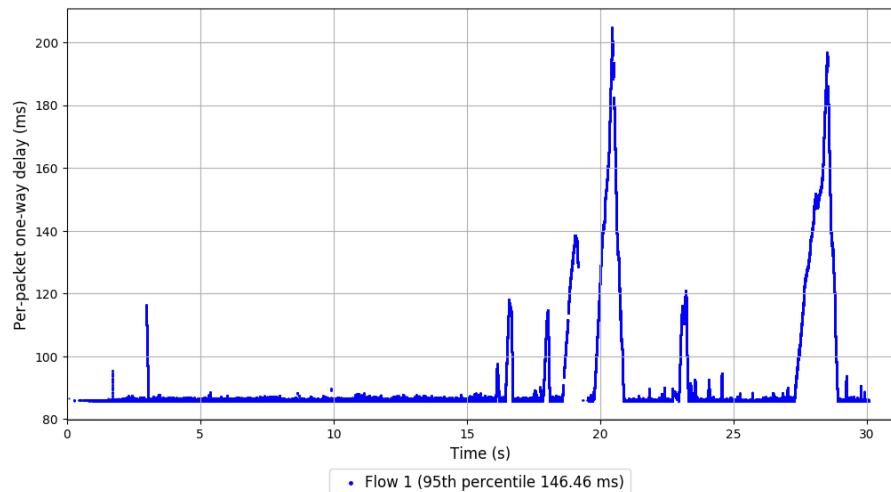
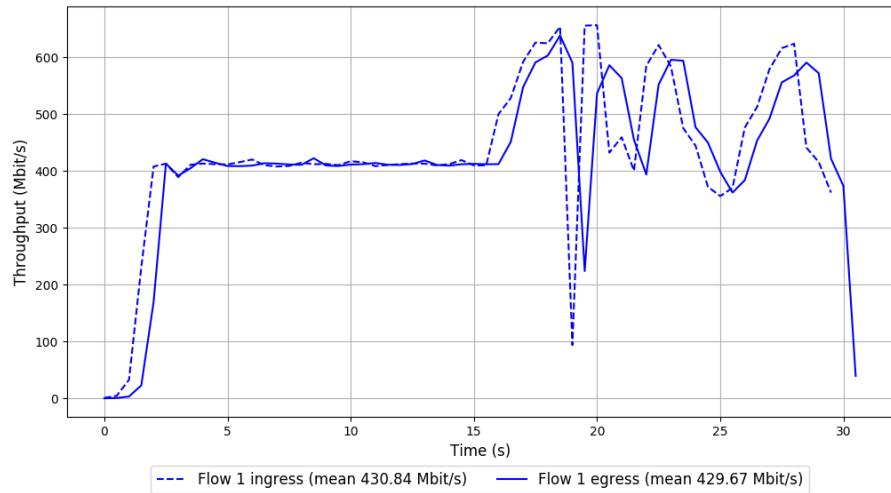


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-21 05:14:43
End at: 2019-01-21 05:15:13
Local clock offset: 20.793 ms
Remote clock offset: 19.931 ms

# Below is generated by plot.py at 2019-01-21 06:38:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 429.67 Mbit/s
95th percentile per-packet one-way delay: 146.463 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 429.67 Mbit/s
95th percentile per-packet one-way delay: 146.463 ms
Loss rate: 0.27%
```

Run 4: Report of TCP BBR — Data Link

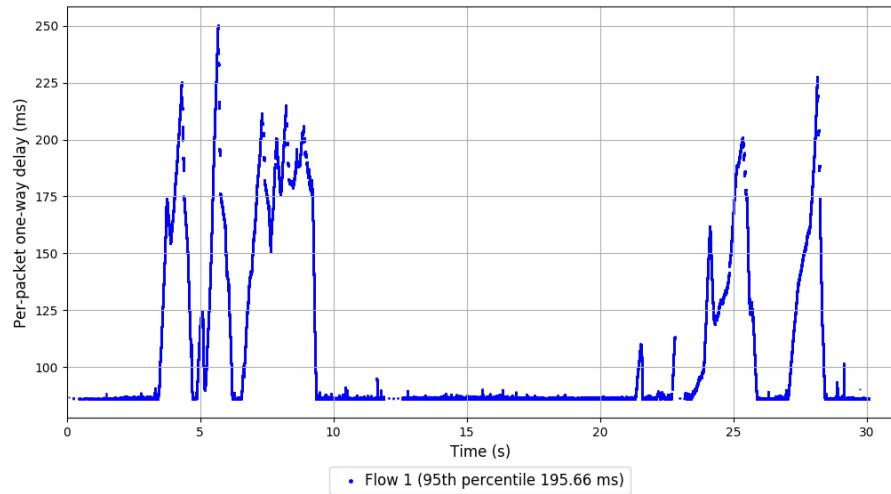
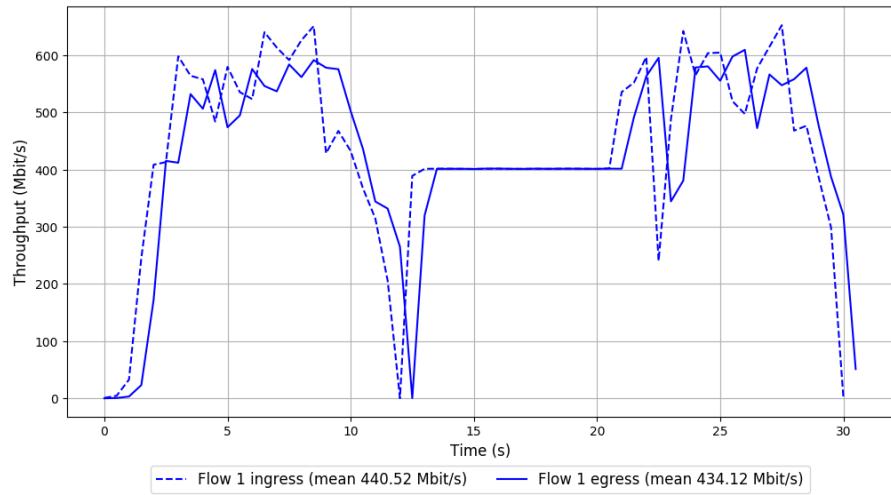


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-21 05:46:10
End at: 2019-01-21 05:46:40
Local clock offset: 9.061 ms
Remote clock offset: 4.391 ms

# Below is generated by plot.py at 2019-01-21 06:38:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 434.12 Mbit/s
95th percentile per-packet one-way delay: 195.660 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 434.12 Mbit/s
95th percentile per-packet one-way delay: 195.660 ms
Loss rate: 1.45%
```

Run 5: Report of TCP BBR — Data Link

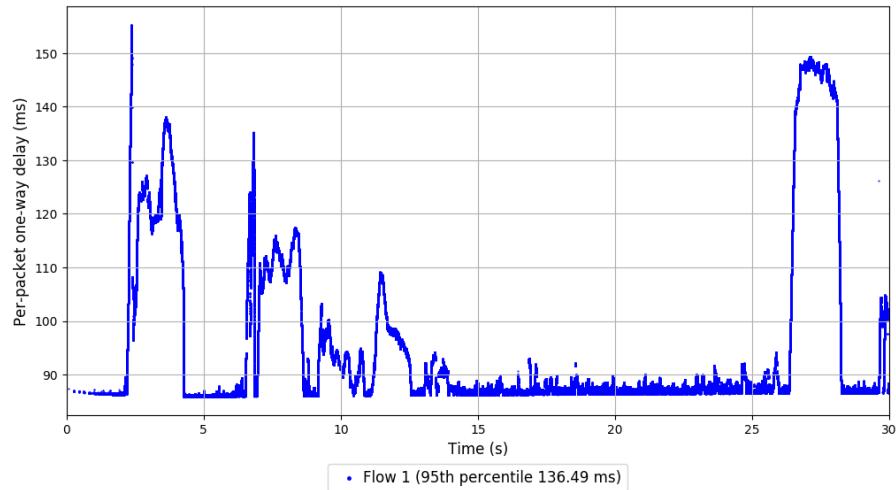
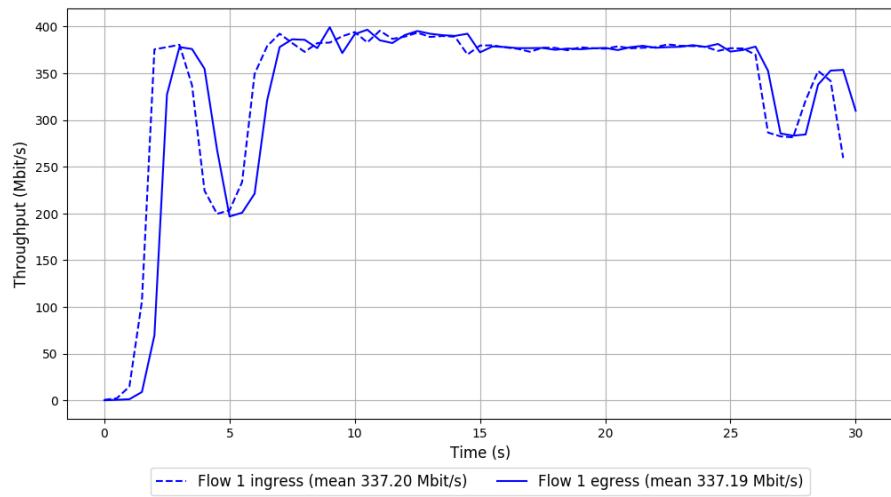


Run 1: Statistics of Copa

```
Start at: 2019-01-21 03:35:15
End at: 2019-01-21 03:35:45
Local clock offset: 3.648 ms
Remote clock offset: 4.277 ms

# Below is generated by plot.py at 2019-01-21 06:40:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.19 Mbit/s
95th percentile per-packet one-way delay: 136.489 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 337.19 Mbit/s
95th percentile per-packet one-way delay: 136.489 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link

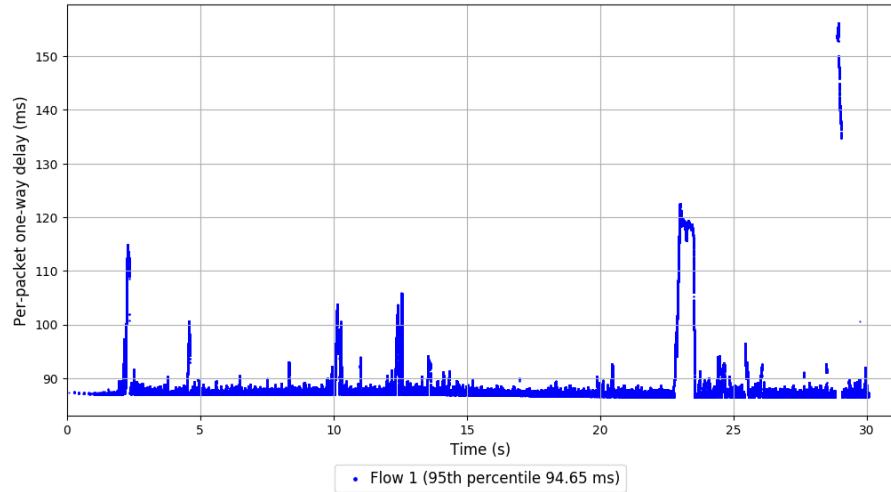
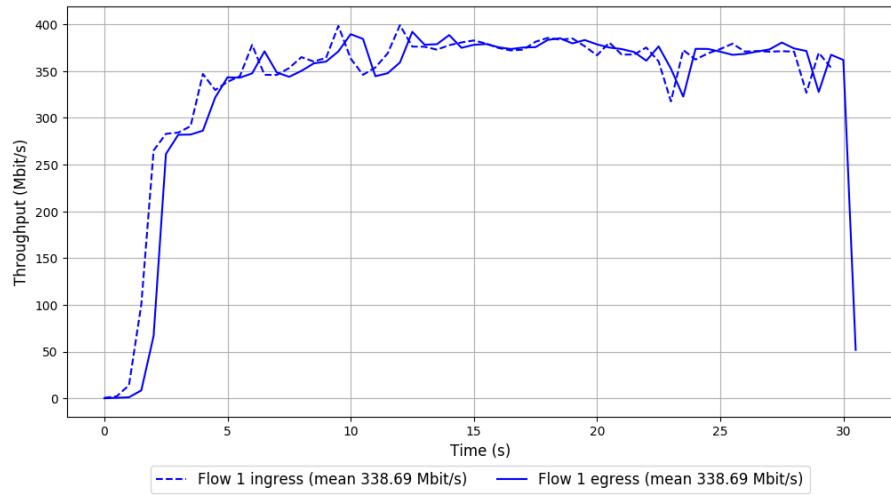


Run 2: Statistics of Copa

```
Start at: 2019-01-21 04:06:59
End at: 2019-01-21 04:07:29
Local clock offset: 26.626 ms
Remote clock offset: 26.22 ms

# Below is generated by plot.py at 2019-01-21 06:40:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.69 Mbit/s
95th percentile per-packet one-way delay: 94.649 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 338.69 Mbit/s
95th percentile per-packet one-way delay: 94.649 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link

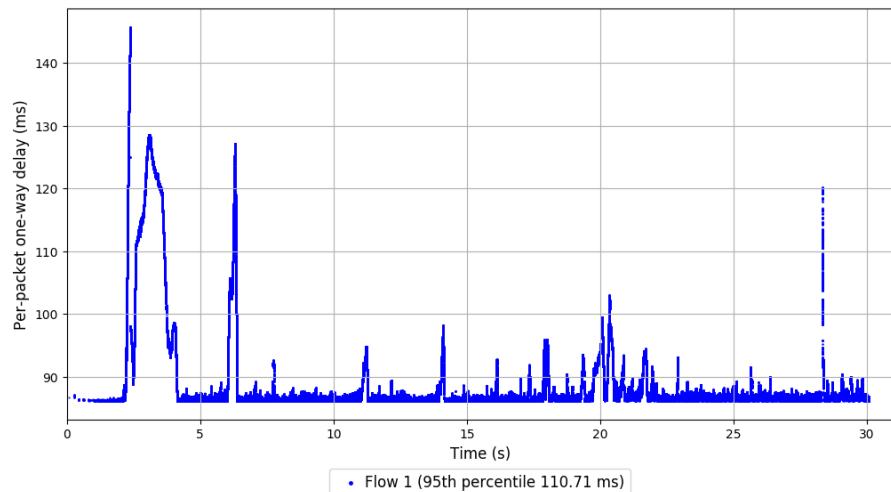
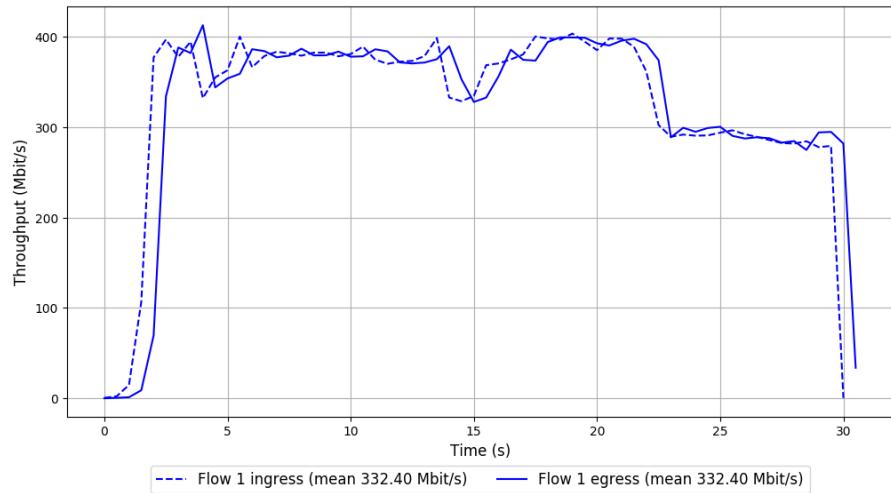


Run 3: Statistics of Copa

```
Start at: 2019-01-21 04:38:35
End at: 2019-01-21 04:39:05
Local clock offset: 37.89 ms
Remote clock offset: 37.142 ms

# Below is generated by plot.py at 2019-01-21 06:40:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.40 Mbit/s
95th percentile per-packet one-way delay: 110.714 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 332.40 Mbit/s
95th percentile per-packet one-way delay: 110.714 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link

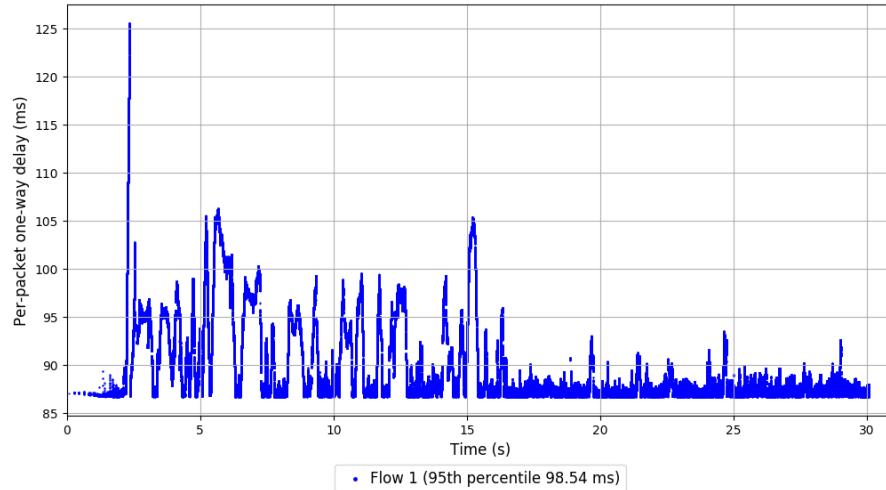
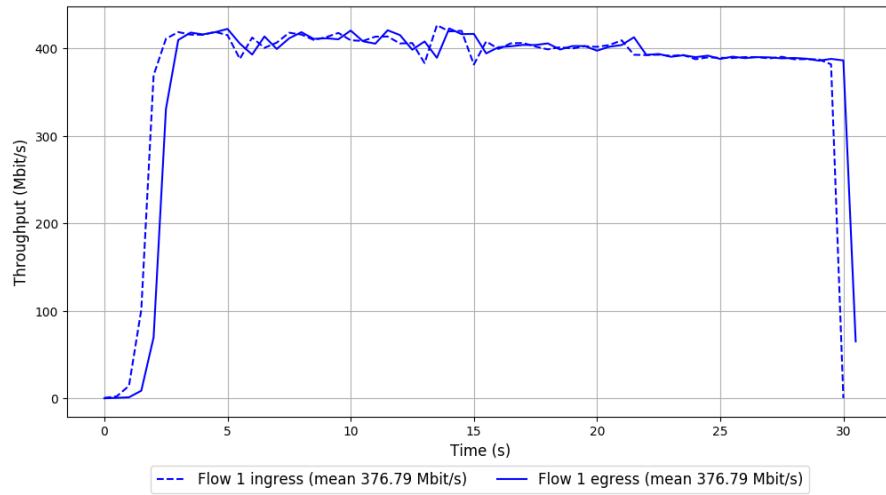


Run 4: Statistics of Copa

```
Start at: 2019-01-21 05:10:08
End at: 2019-01-21 05:10:39
Local clock offset: 18.03 ms
Remote clock offset: 17.967 ms

# Below is generated by plot.py at 2019-01-21 06:52:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 376.79 Mbit/s
95th percentile per-packet one-way delay: 98.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 376.79 Mbit/s
95th percentile per-packet one-way delay: 98.543 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

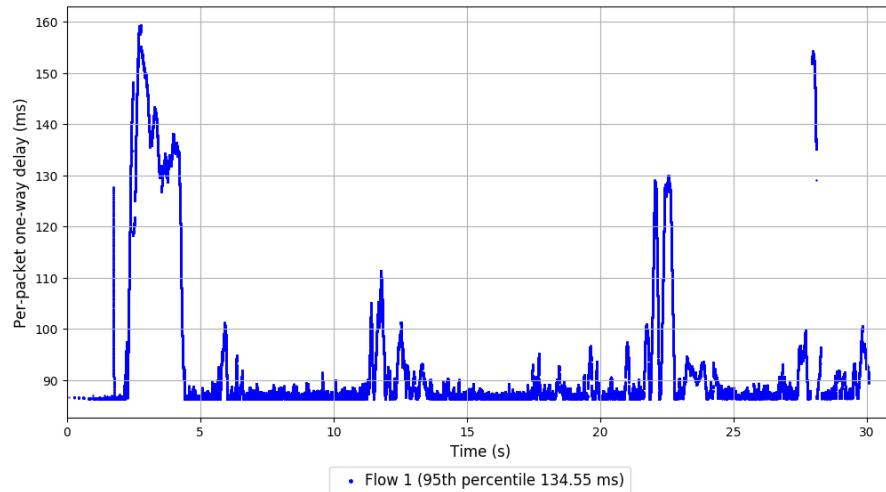
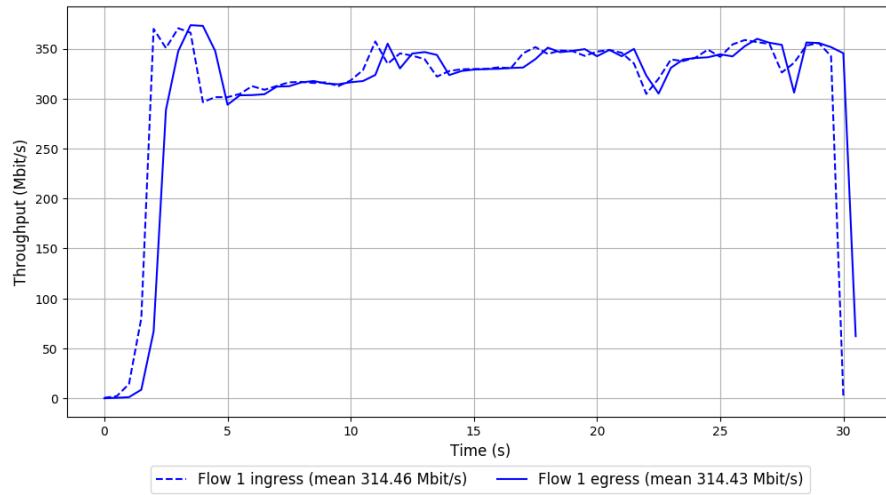


Run 5: Statistics of Copa

```
Start at: 2019-01-21 05:41:42
End at: 2019-01-21 05:42:12
Local clock offset: 8.275 ms
Remote clock offset: 4.342 ms

# Below is generated by plot.py at 2019-01-21 06:52:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 314.43 Mbit/s
95th percentile per-packet one-way delay: 134.553 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 314.43 Mbit/s
95th percentile per-packet one-way delay: 134.553 ms
Loss rate: 0.01%
```

Run 5: Report of Copa — Data Link

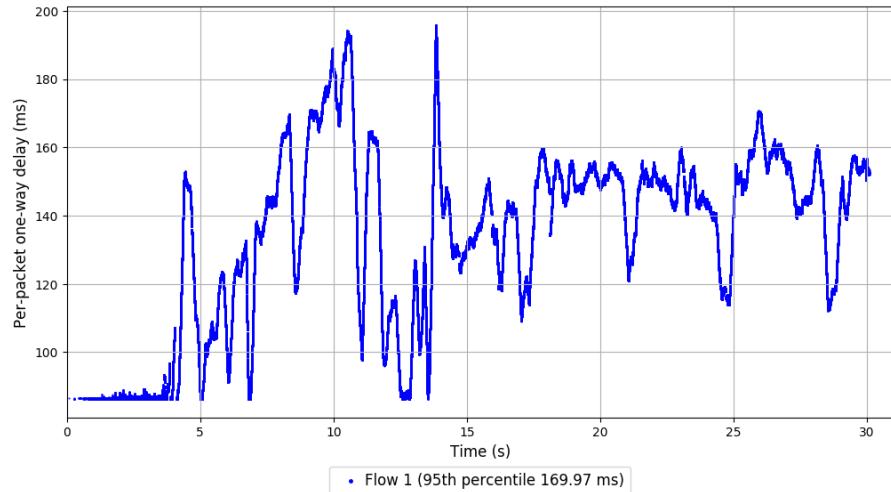
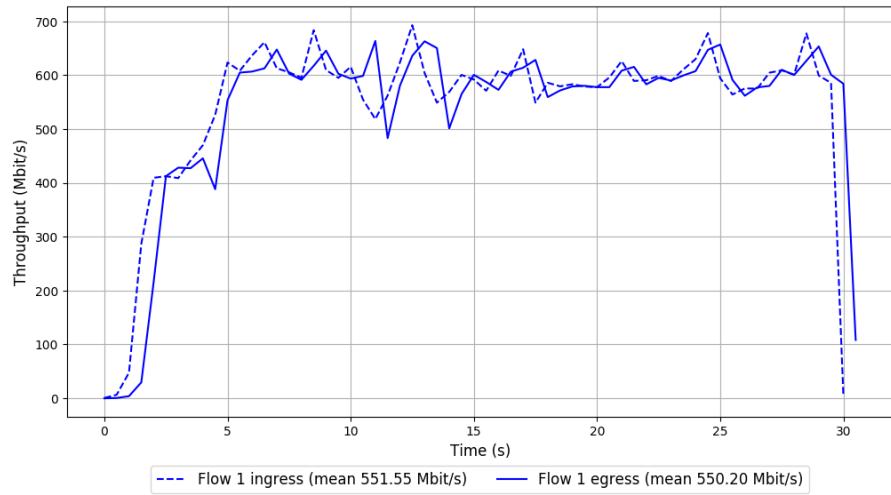


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-21 04:03:51
End at: 2019-01-21 04:04:21
Local clock offset: 22.246 ms
Remote clock offset: 21.981 ms

# Below is generated by plot.py at 2019-01-21 06:52:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 550.20 Mbit/s
95th percentile per-packet one-way delay: 169.970 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 550.20 Mbit/s
95th percentile per-packet one-way delay: 169.970 ms
Loss rate: 0.24%
```

Run 1: Report of TCP Cubic — Data Link

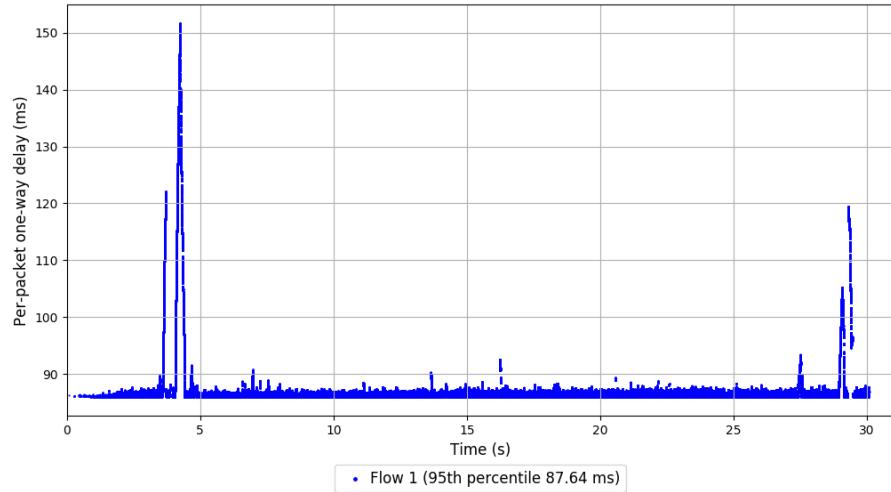
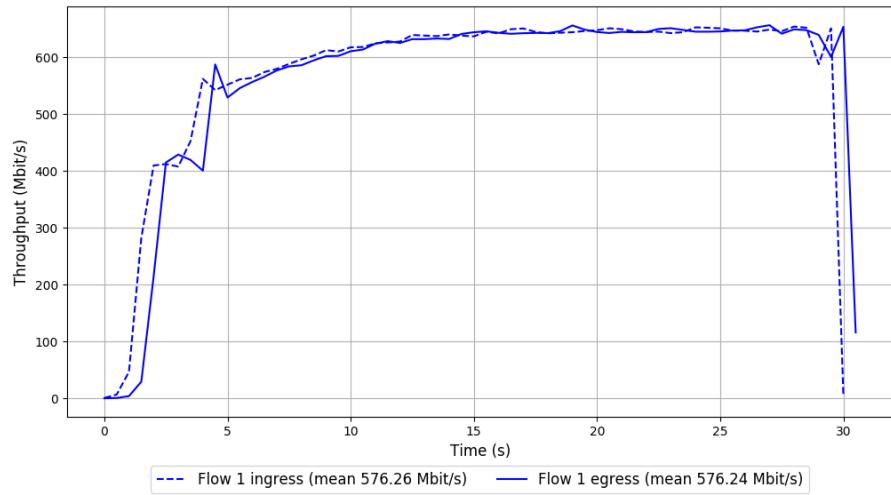


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-21 04:35:28
End at: 2019-01-21 04:35:58
Local clock offset: 34.926 ms
Remote clock offset: 33.877 ms

# Below is generated by plot.py at 2019-01-21 06:52:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 576.24 Mbit/s
95th percentile per-packet one-way delay: 87.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 576.24 Mbit/s
95th percentile per-packet one-way delay: 87.636 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Cubic — Data Link

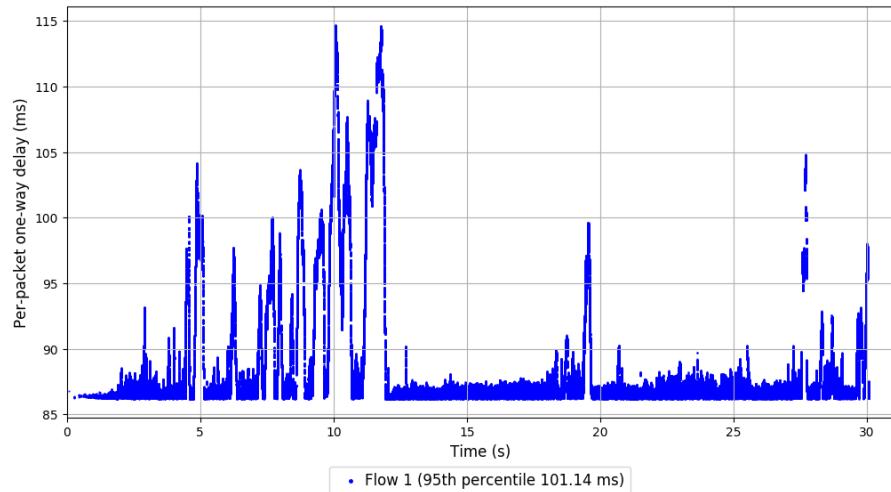
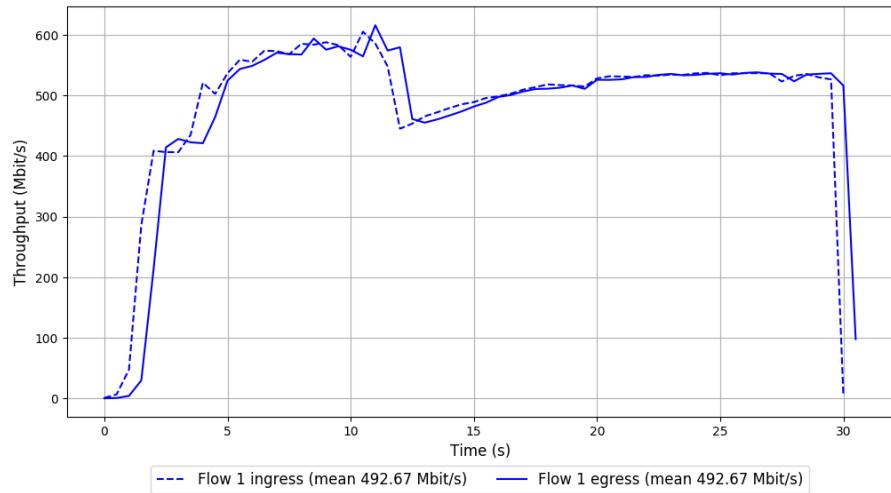


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-21 05:07:04
End at: 2019-01-21 05:07:34
Local clock offset: 16.885 ms
Remote clock offset: 16.724 ms

# Below is generated by plot.py at 2019-01-21 06:52:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 492.67 Mbit/s
95th percentile per-packet one-way delay: 101.145 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 492.67 Mbit/s
95th percentile per-packet one-way delay: 101.145 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Cubic — Data Link

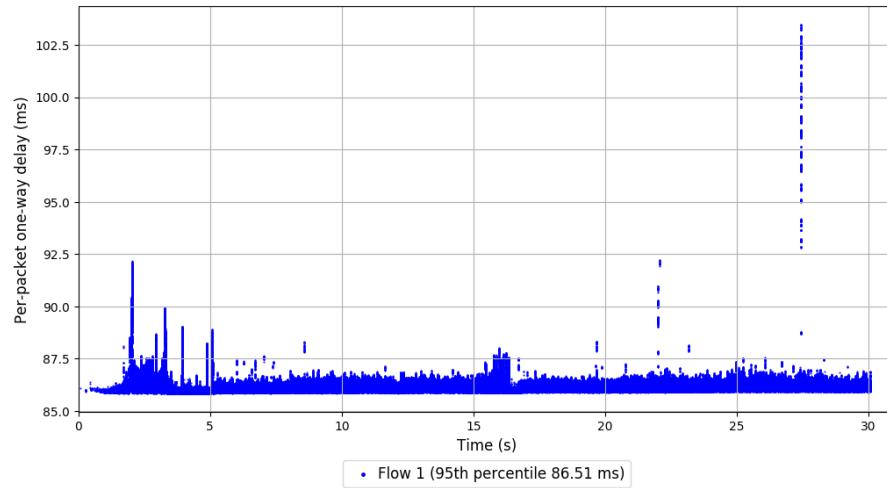
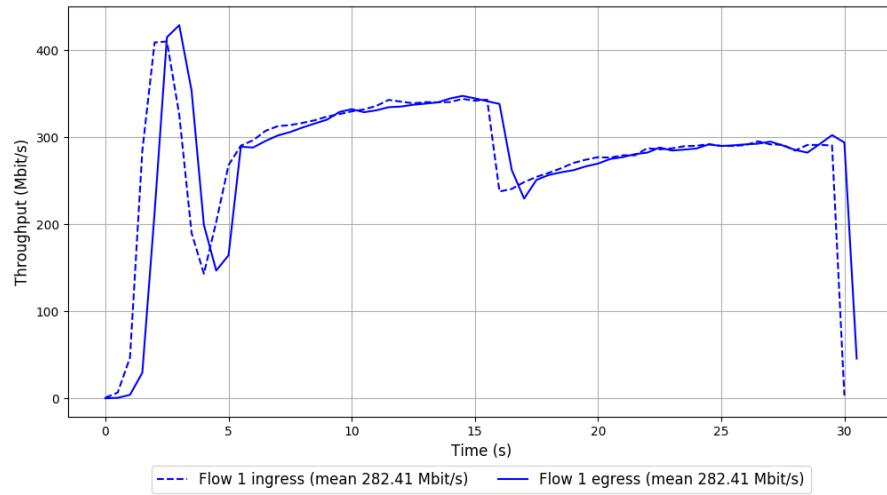


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-21 05:38:48
End at: 2019-01-21 05:39:18
Local clock offset: 8.063 ms
Remote clock offset: 4.307 ms

# Below is generated by plot.py at 2019-01-21 06:52:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 282.41 Mbit/s
95th percentile per-packet one-way delay: 86.513 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 282.41 Mbit/s
95th percentile per-packet one-way delay: 86.513 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Cubic — Data Link

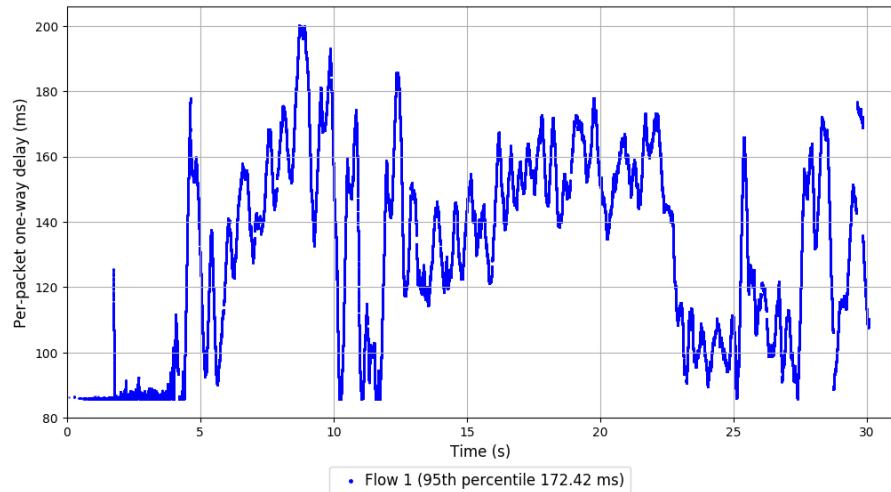
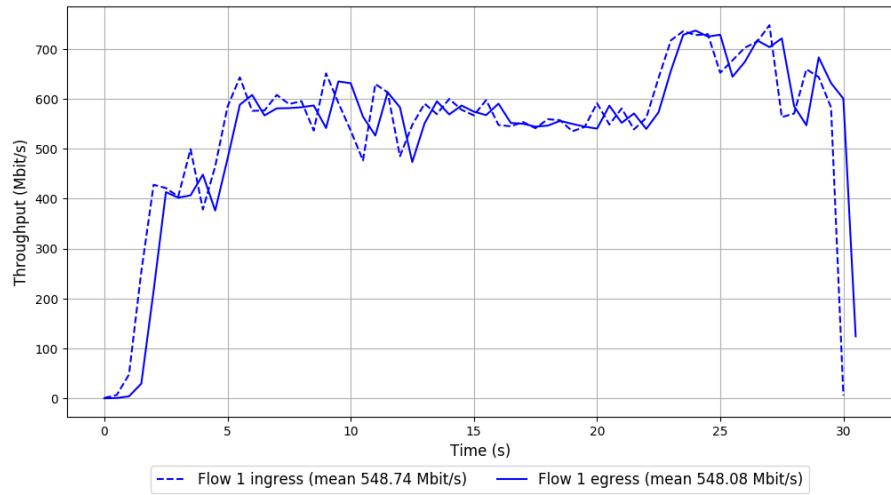


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-21 06:10:48
End at: 2019-01-21 06:11:18
Local clock offset: 2.042 ms
Remote clock offset: 1.584 ms

# Below is generated by plot.py at 2019-01-21 06:53:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 548.08 Mbit/s
95th percentile per-packet one-way delay: 172.416 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 548.08 Mbit/s
95th percentile per-packet one-way delay: 172.416 ms
Loss rate: 0.12%
```

Run 5: Report of TCP Cubic — Data Link

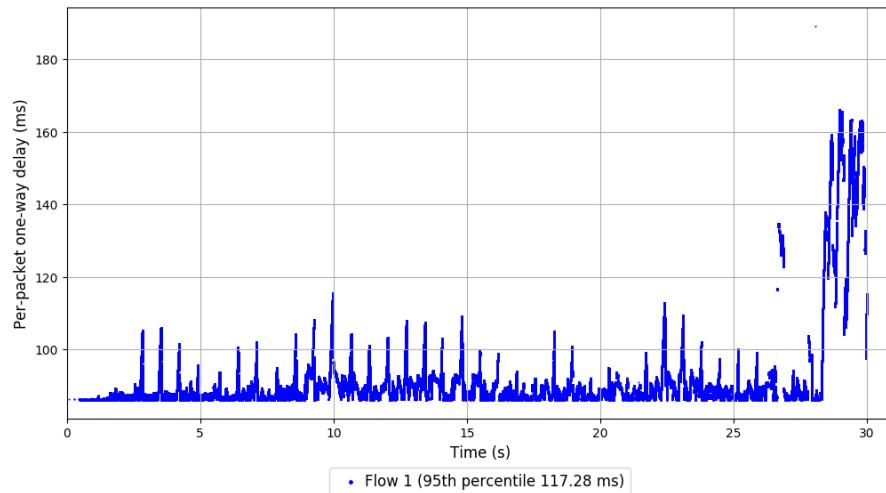
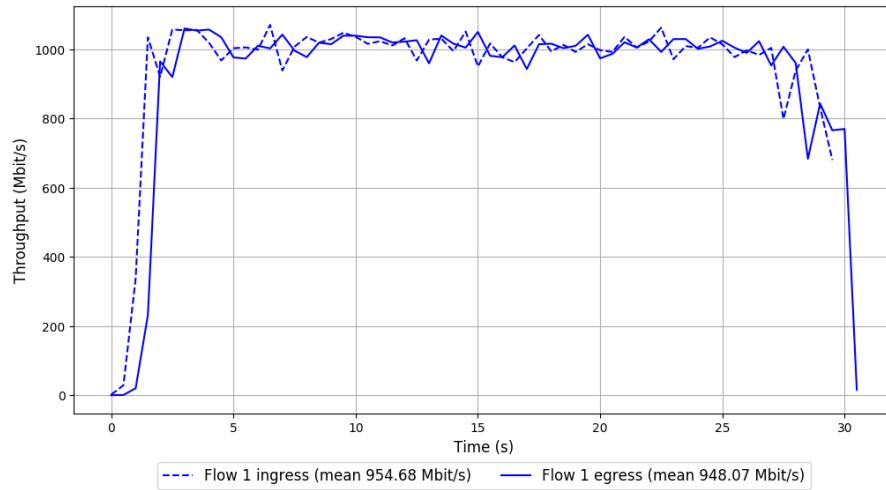


```
Run 1: Statistics of FillP

Start at: 2019-01-21 03:57:52
End at: 2019-01-21 03:58:22
Local clock offset: 15.106 ms
Remote clock offset: 14.876 ms

# Below is generated by plot.py at 2019-01-21 07:05:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 948.07 Mbit/s
95th percentile per-packet one-way delay: 117.276 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 948.07 Mbit/s
95th percentile per-packet one-way delay: 117.276 ms
Loss rate: 0.69%
```

Run 1: Report of FillP — Data Link

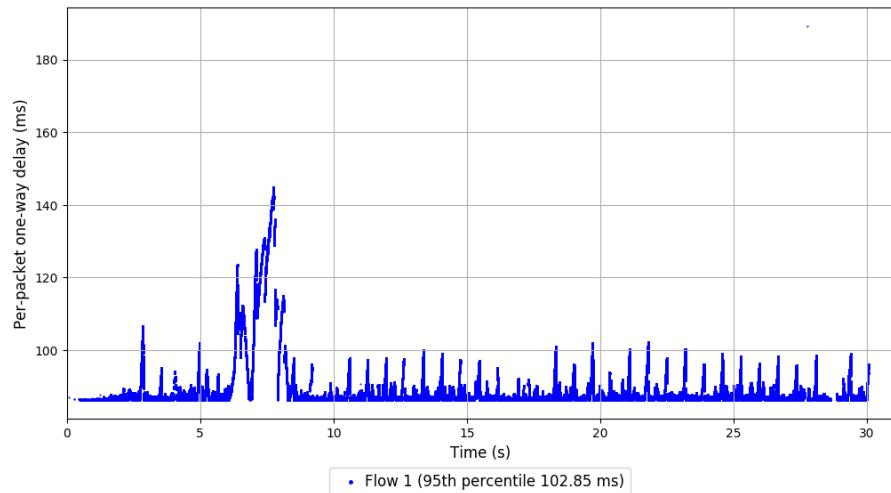
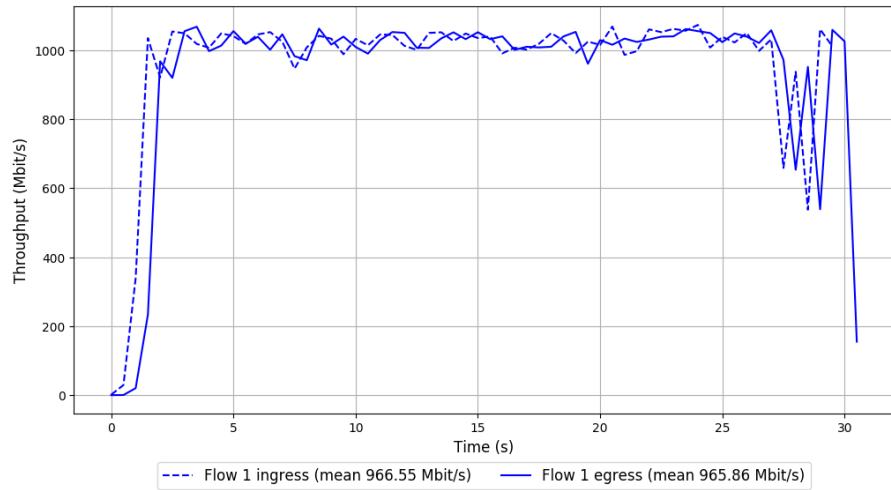


Run 2: Statistics of FillP

```
Start at: 2019-01-21 04:29:17
End at: 2019-01-21 04:29:48
Local clock offset: 28.107 ms
Remote clock offset: 27.694 ms

# Below is generated by plot.py at 2019-01-21 07:16:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 965.86 Mbit/s
95th percentile per-packet one-way delay: 102.854 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 965.86 Mbit/s
95th percentile per-packet one-way delay: 102.854 ms
Loss rate: 0.07%
```

Run 2: Report of FillP — Data Link

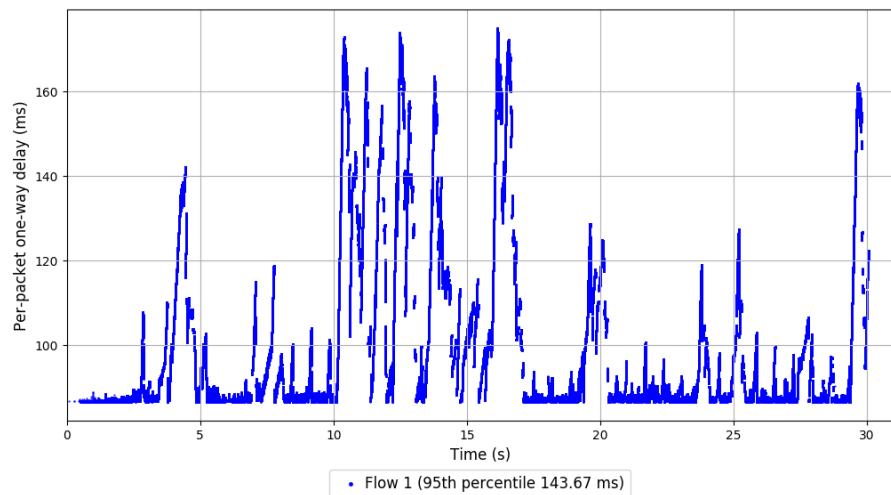
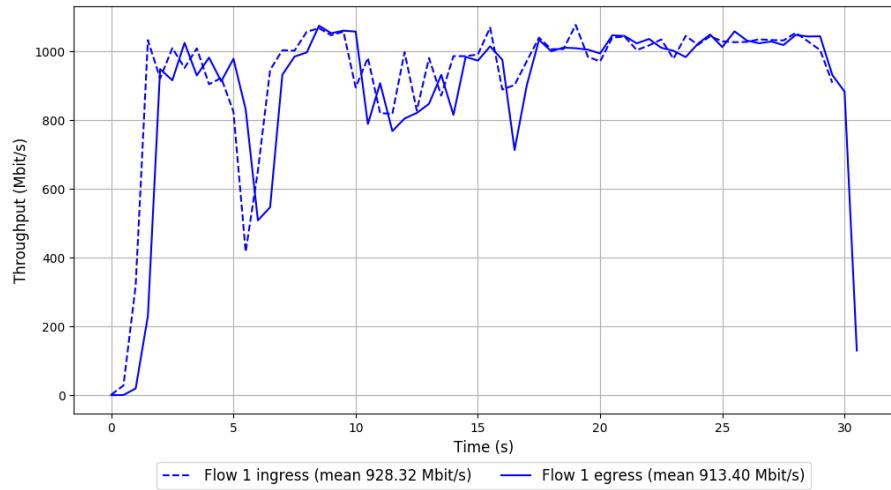


```
Run 3: Statistics of FillP
```

```
Start at: 2019-01-21 05:00:54
End at: 2019-01-21 05:01:24
Local clock offset: 15.734 ms
Remote clock offset: 15.299 ms

# Below is generated by plot.py at 2019-01-21 07:17:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 913.40 Mbit/s
95th percentile per-packet one-way delay: 143.672 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 913.40 Mbit/s
95th percentile per-packet one-way delay: 143.672 ms
Loss rate: 1.60%
```

Run 3: Report of FillP — Data Link

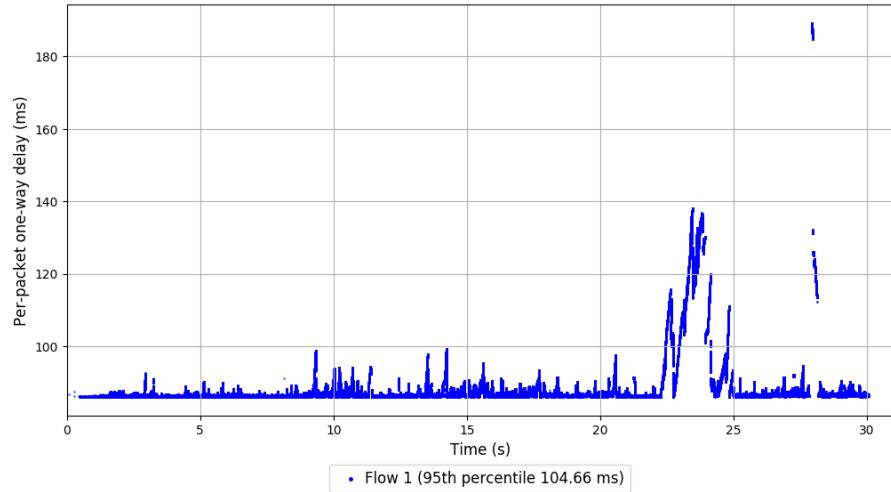
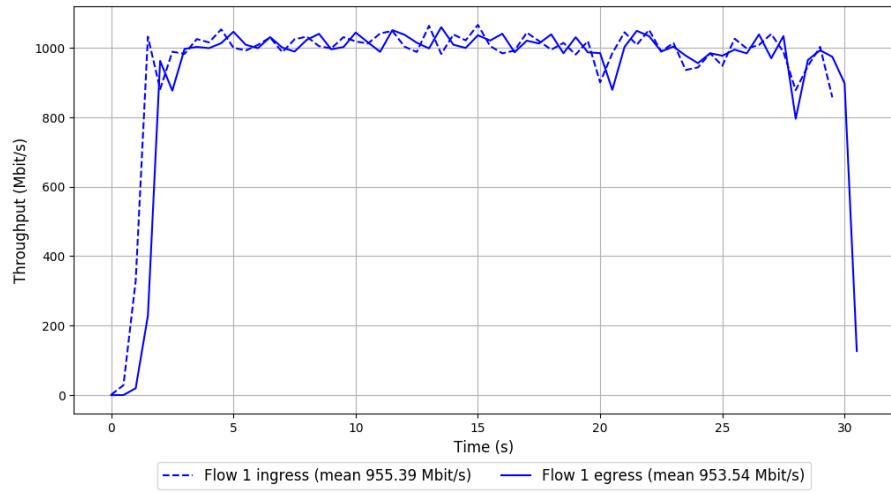


Run 4: Statistics of FillP

```
Start at: 2019-01-21 05:32:37
End at: 2019-01-21 05:33:07
Local clock offset: 7.639 ms
Remote clock offset: 4.938 ms

# Below is generated by plot.py at 2019-01-21 07:18:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 953.54 Mbit/s
95th percentile per-packet one-way delay: 104.663 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 953.54 Mbit/s
95th percentile per-packet one-way delay: 104.663 ms
Loss rate: 0.19%
```

Run 4: Report of FillP — Data Link

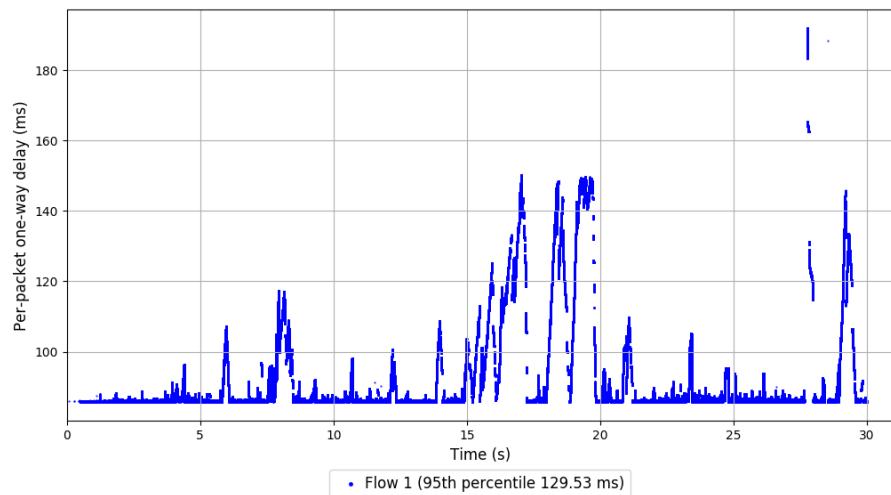
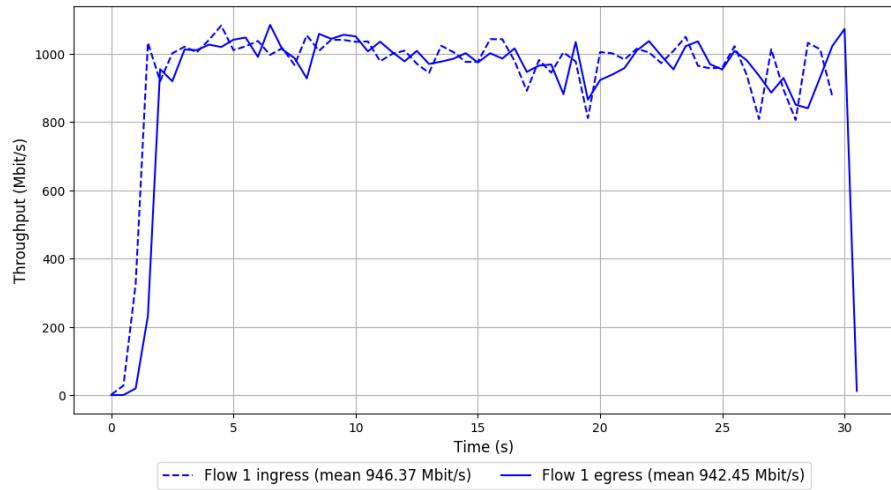


Run 5: Statistics of FillP

```
Start at: 2019-01-21 06:04:19
End at: 2019-01-21 06:04:49
Local clock offset: 2.633 ms
Remote clock offset: 1.683 ms

# Below is generated by plot.py at 2019-01-21 07:18:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 942.45 Mbit/s
95th percentile per-packet one-way delay: 129.533 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 942.45 Mbit/s
95th percentile per-packet one-way delay: 129.533 ms
Loss rate: 0.41%
```

Run 5: Report of FillP — Data Link

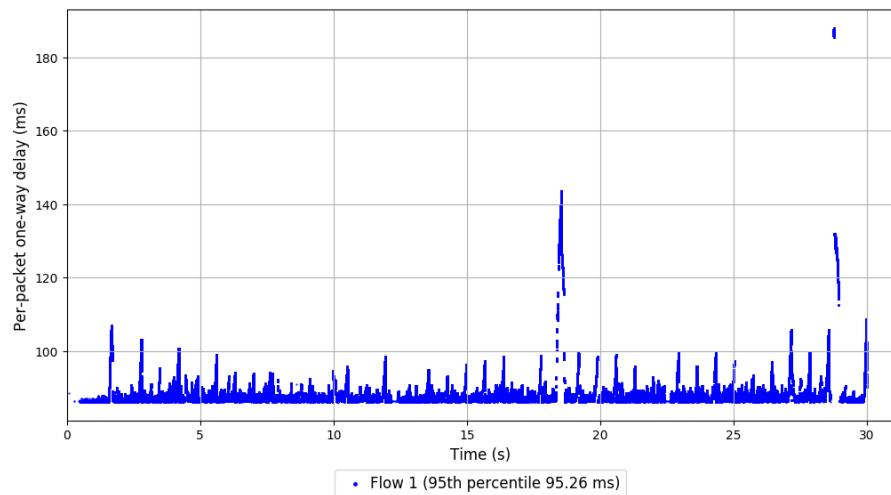
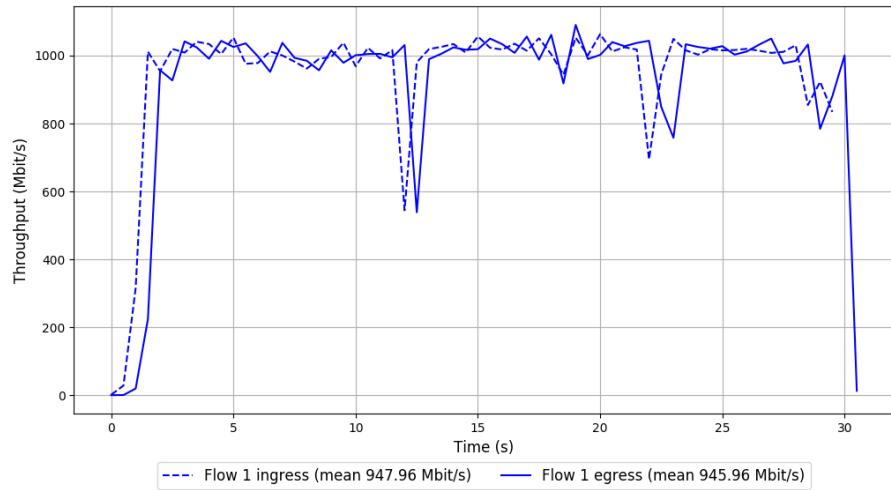


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-21 03:54:25
End at: 2019-01-21 03:54:55
Local clock offset: 13.675 ms
Remote clock offset: 13.32 ms

# Below is generated by plot.py at 2019-01-21 07:18:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 945.96 Mbit/s
95th percentile per-packet one-way delay: 95.259 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 945.96 Mbit/s
95th percentile per-packet one-way delay: 95.259 ms
Loss rate: 0.22%
```

Run 1: Report of FillP-Sheep — Data Link

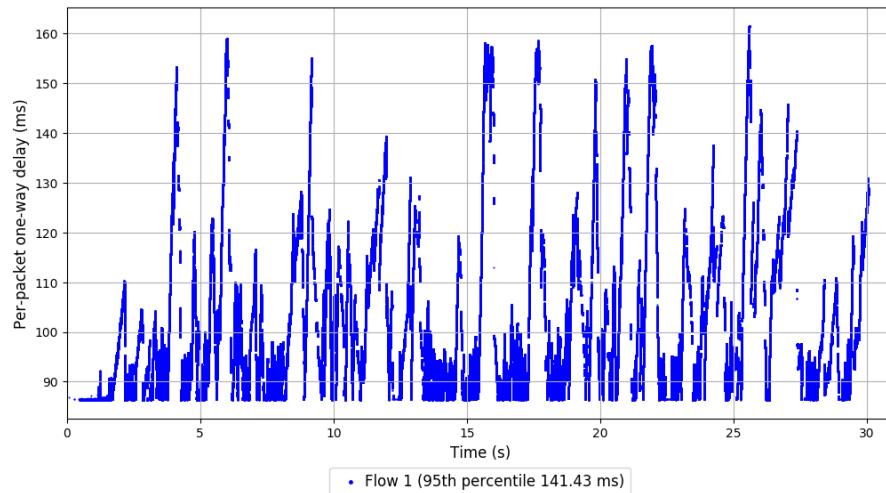
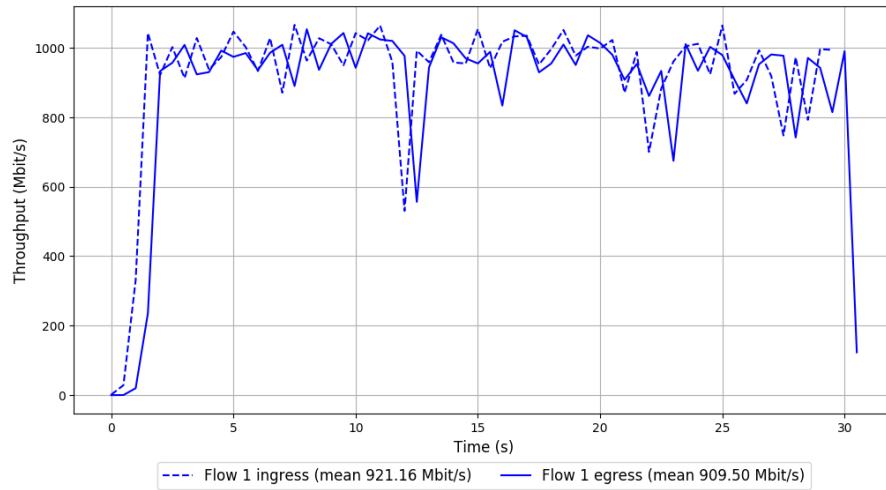


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-21 04:25:50
End at: 2019-01-21 04:26:20
Local clock offset: 24.794 ms
Remote clock offset: 24.539 ms

# Below is generated by plot.py at 2019-01-21 07:19:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 909.50 Mbit/s
95th percentile per-packet one-way delay: 141.430 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 909.50 Mbit/s
95th percentile per-packet one-way delay: 141.430 ms
Loss rate: 1.27%
```

Run 2: Report of FillP-Sheep — Data Link

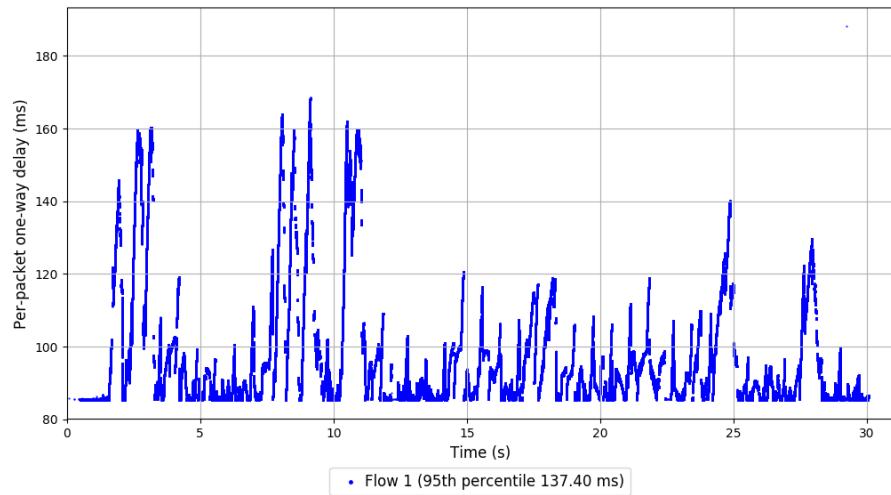
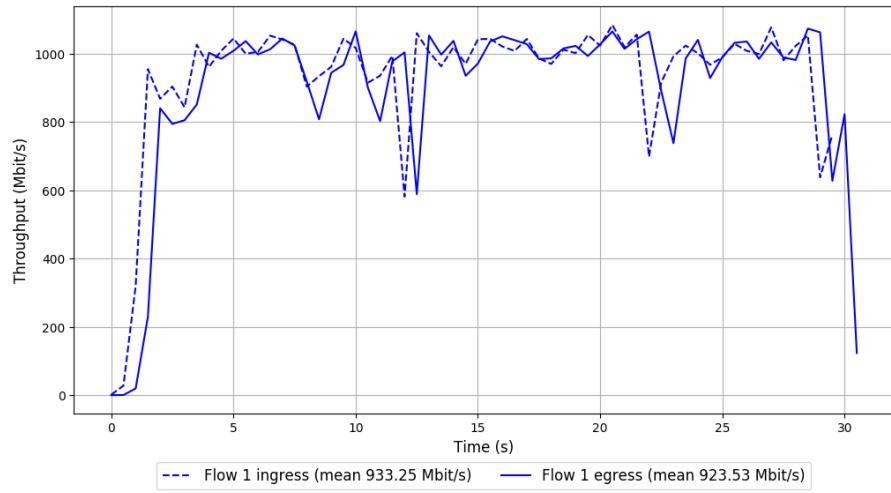


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-21 04:57:28
End at: 2019-01-21 04:57:58
Local clock offset: 16.434 ms
Remote clock offset: 15.386 ms

# Below is generated by plot.py at 2019-01-21 07:20:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 923.53 Mbit/s
95th percentile per-packet one-way delay: 137.398 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 923.53 Mbit/s
95th percentile per-packet one-way delay: 137.398 ms
Loss rate: 1.04%
```

Run 3: Report of FillP-Sheep — Data Link

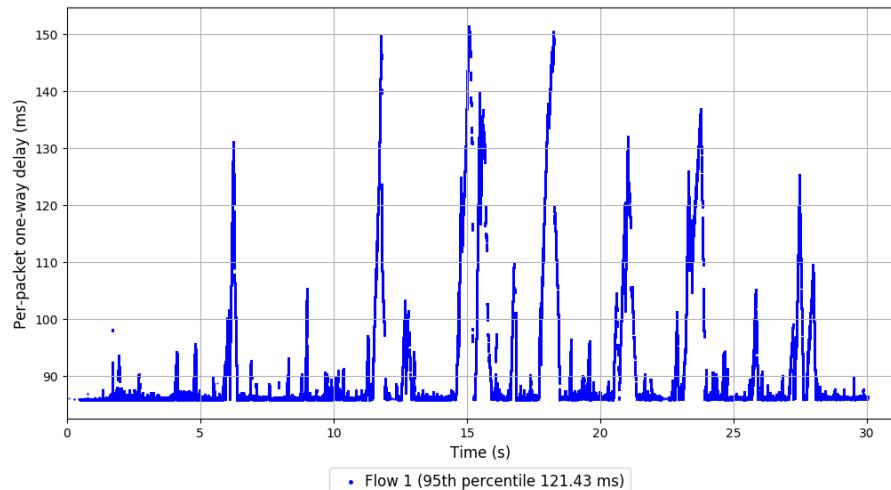
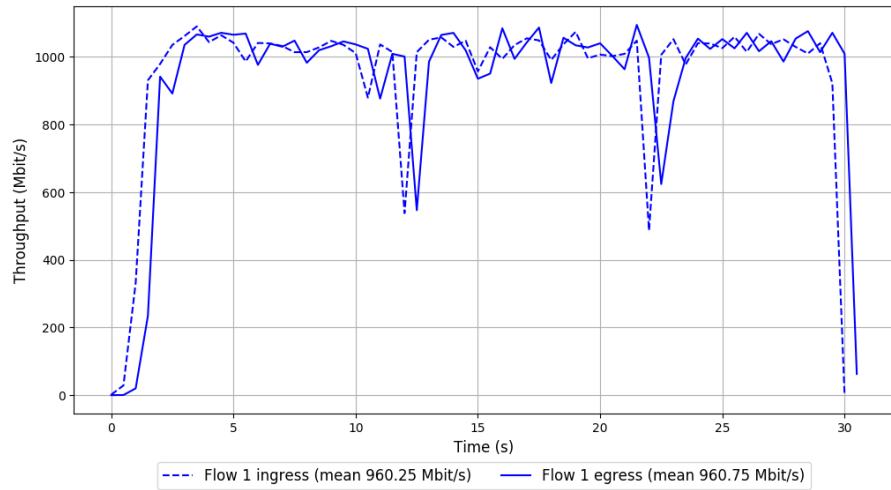


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-21 05:29:10
End at: 2019-01-21 05:29:40
Local clock offset: 8.127 ms
Remote clock offset: 5.87 ms

# Below is generated by plot.py at 2019-01-21 07:36:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 960.75 Mbit/s
95th percentile per-packet one-way delay: 121.434 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 960.75 Mbit/s
95th percentile per-packet one-way delay: 121.434 ms
Loss rate: 0.21%
```

Run 4: Report of FillP-Sheep — Data Link

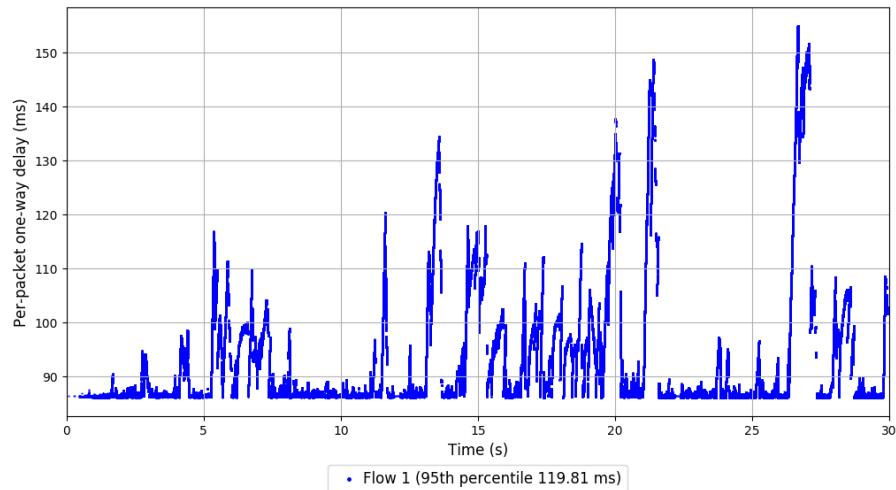
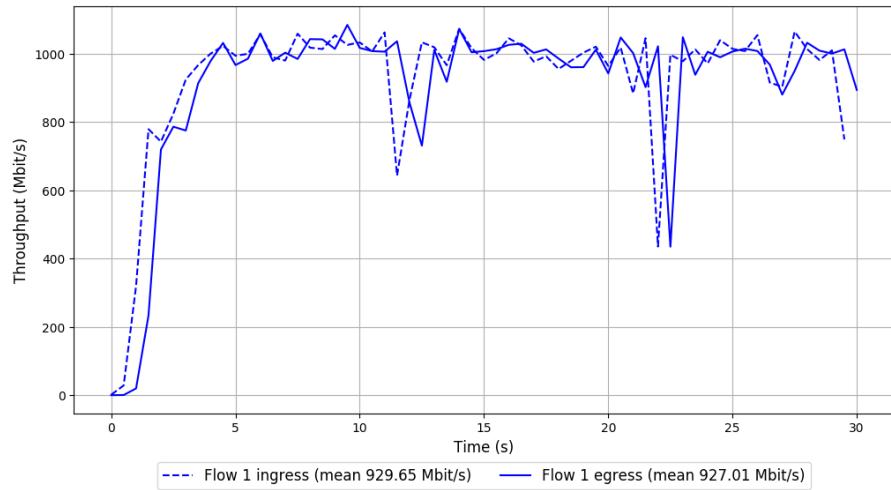


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-21 06:00:44
End at: 2019-01-21 06:01:14
Local clock offset: 3.355 ms
Remote clock offset: 1.939 ms

# Below is generated by plot.py at 2019-01-21 07:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 927.01 Mbit/s
95th percentile per-packet one-way delay: 119.806 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 927.01 Mbit/s
95th percentile per-packet one-way delay: 119.806 ms
Loss rate: 0.28%
```

Run 5: Report of FillP-Sheep — Data Link

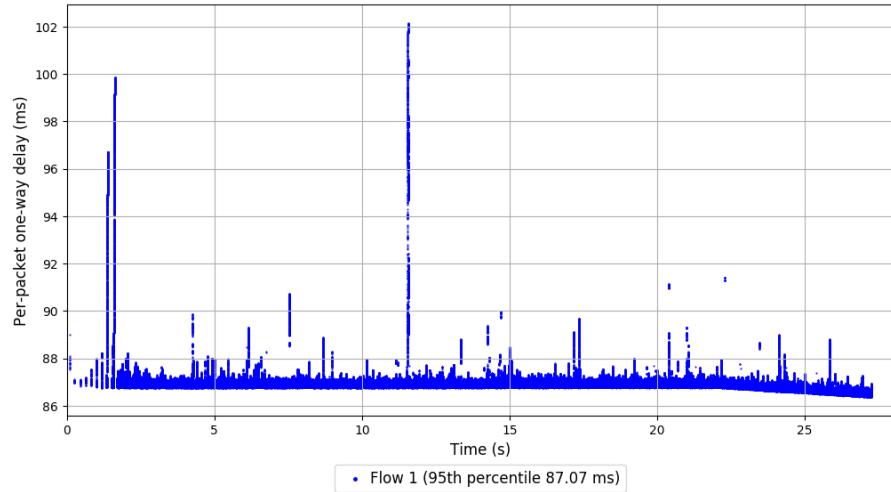
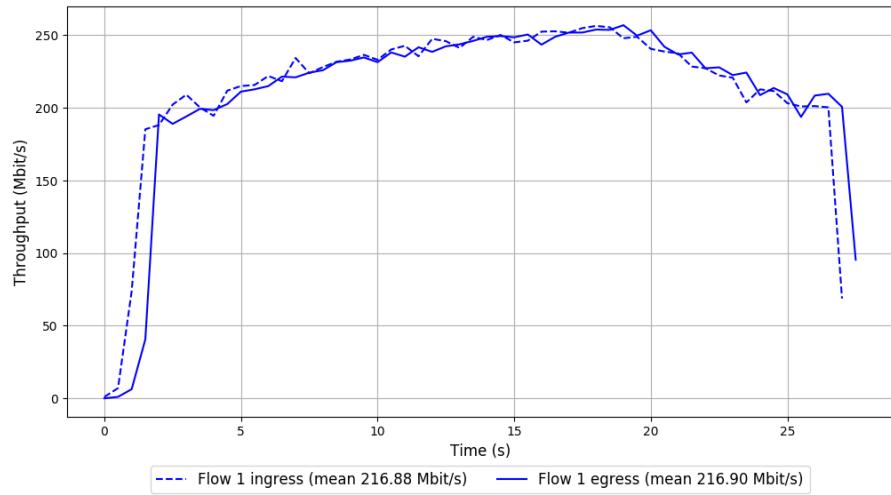


Run 1: Statistics of Indigo

```
Start at: 2019-01-21 03:49:44
End at: 2019-01-21 03:50:14
Local clock offset: 16.562 ms
Remote clock offset: 16.703 ms

# Below is generated by plot.py at 2019-01-21 07:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.90 Mbit/s
95th percentile per-packet one-way delay: 87.069 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.90 Mbit/s
95th percentile per-packet one-way delay: 87.069 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

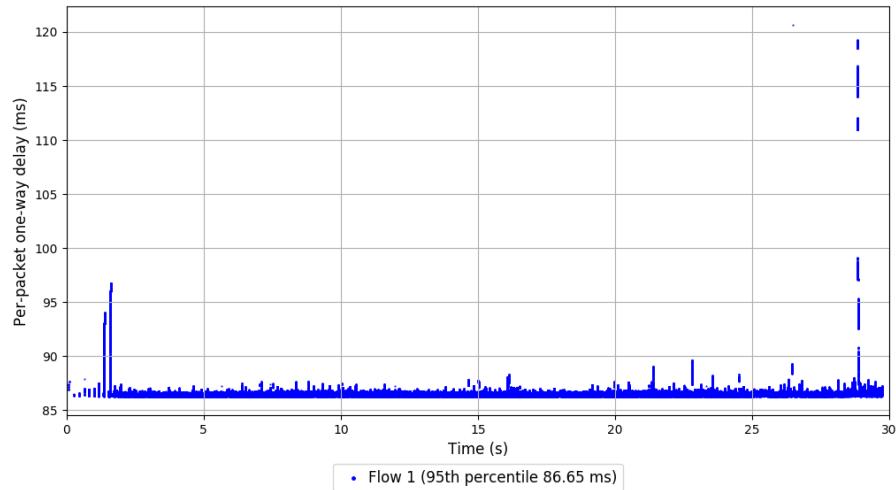
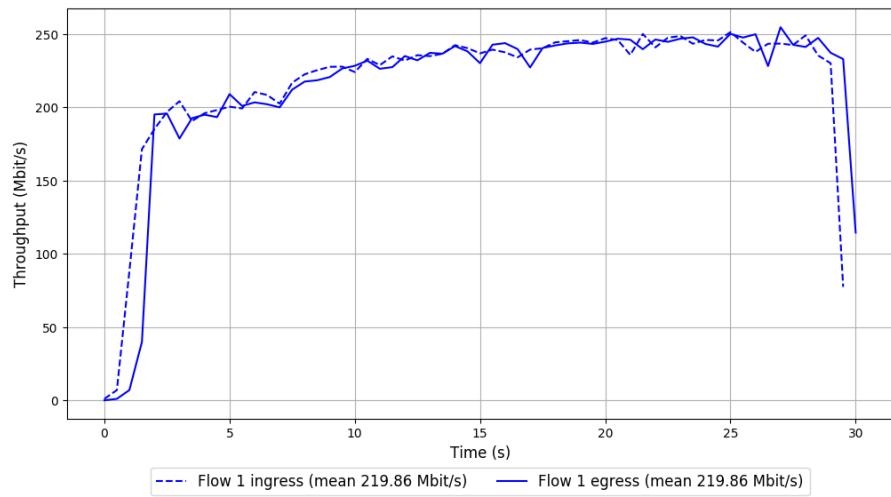


Run 2: Statistics of Indigo

```
Start at: 2019-01-21 04:21:15
End at: 2019-01-21 04:21:45
Local clock offset: 22.076 ms
Remote clock offset: 21.554 ms

# Below is generated by plot.py at 2019-01-21 07:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.86 Mbit/s
95th percentile per-packet one-way delay: 86.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.86 Mbit/s
95th percentile per-packet one-way delay: 86.651 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

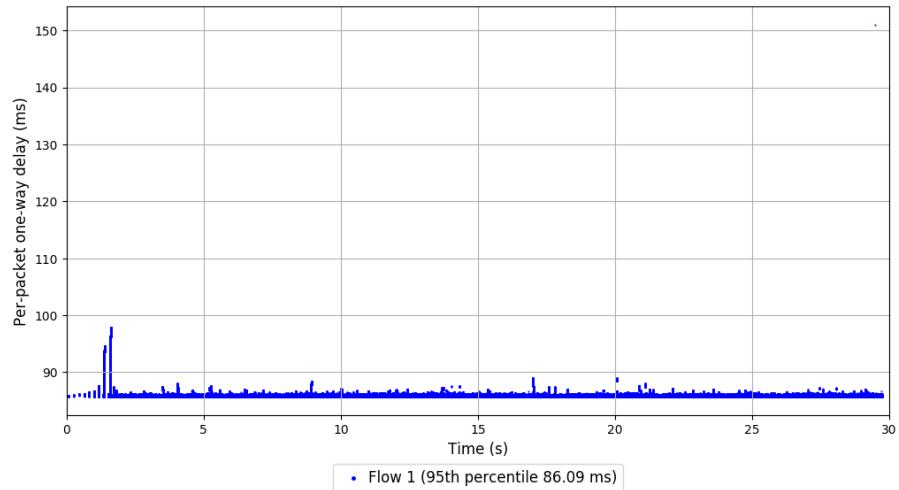
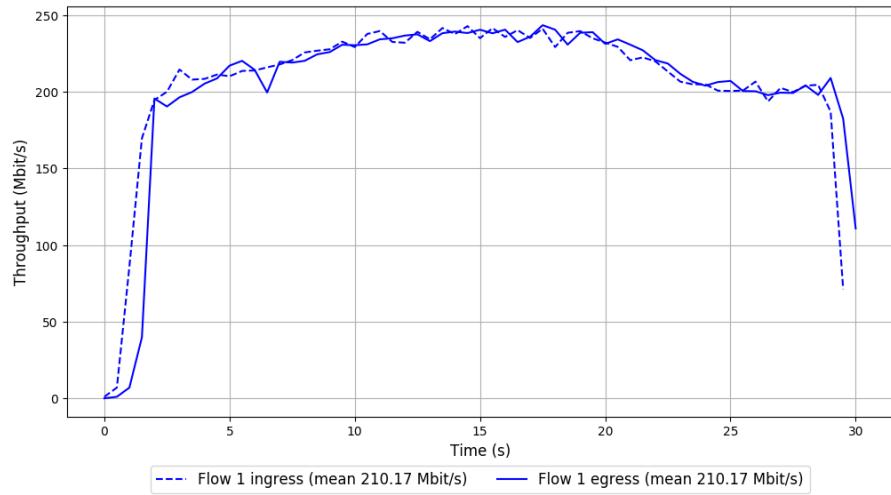


Run 3: Statistics of Indigo

```
Start at: 2019-01-21 04:52:47
End at: 2019-01-21 04:53:17
Local clock offset: 17.904 ms
Remote clock offset: 17.396 ms

# Below is generated by plot.py at 2019-01-21 07:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.17 Mbit/s
95th percentile per-packet one-way delay: 86.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.17 Mbit/s
95th percentile per-packet one-way delay: 86.090 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

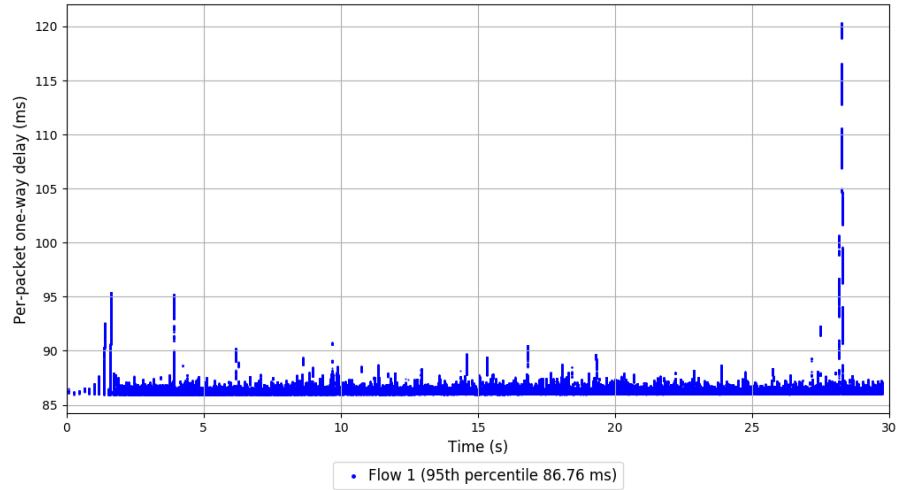
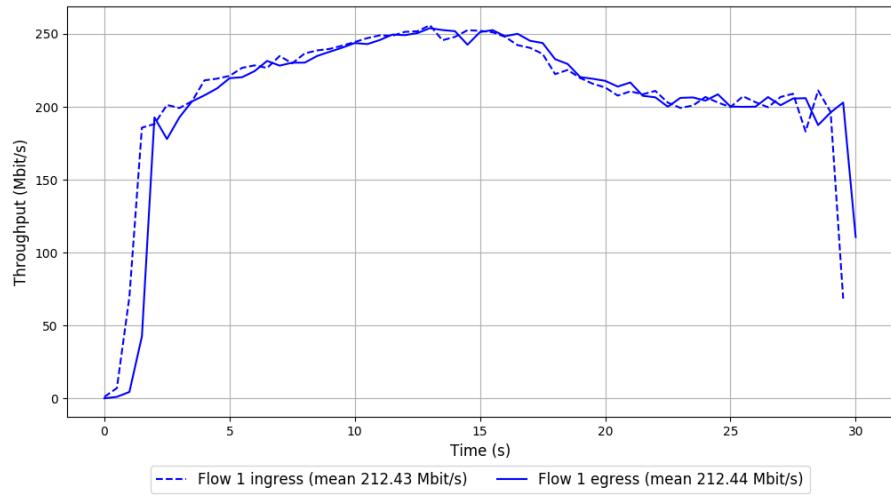


Run 4: Statistics of Indigo

```
Start at: 2019-01-21 05:24:32
End at: 2019-01-21 05:25:02
Local clock offset: 10.061 ms
Remote clock offset: 8.422 ms

# Below is generated by plot.py at 2019-01-21 07:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.44 Mbit/s
95th percentile per-packet one-way delay: 86.763 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 212.44 Mbit/s
95th percentile per-packet one-way delay: 86.763 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

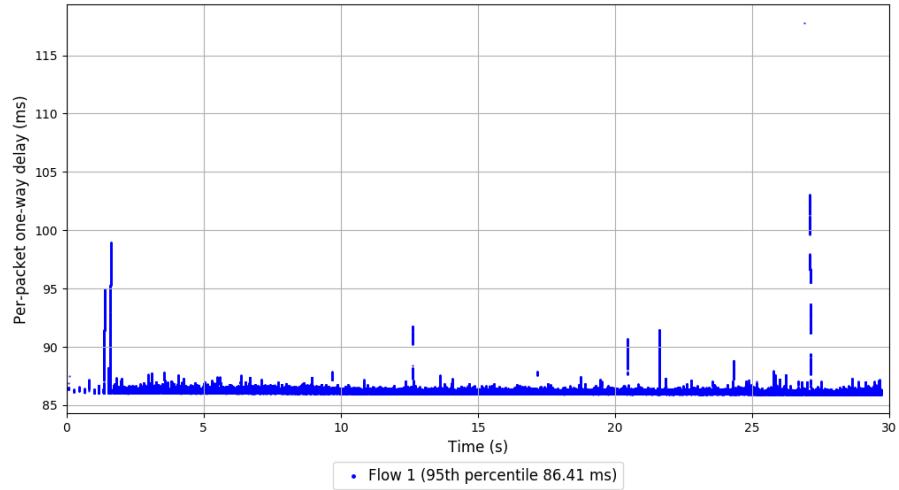
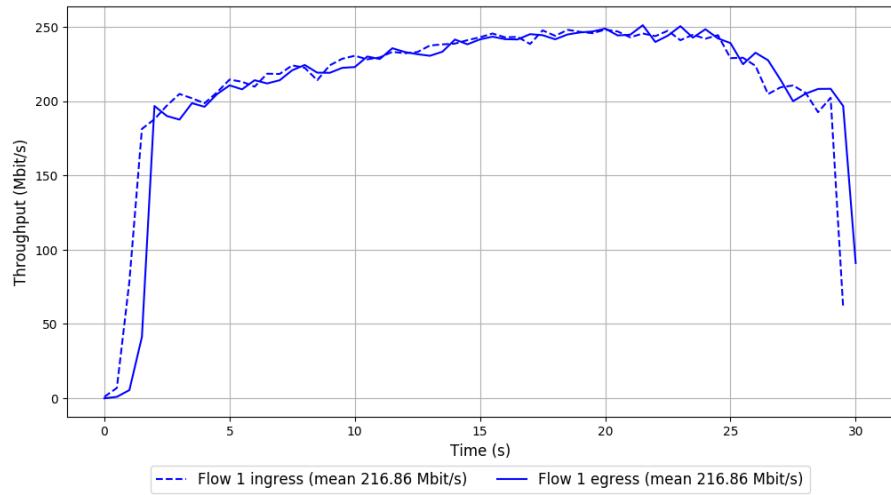


Run 5: Statistics of Indigo

```
Start at: 2019-01-21 05:56:01
End at: 2019-01-21 05:56:31
Local clock offset: 5.055 ms
Remote clock offset: 2.721 ms

# Below is generated by plot.py at 2019-01-21 07:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.86 Mbit/s
95th percentile per-packet one-way delay: 86.405 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 216.86 Mbit/s
95th percentile per-packet one-way delay: 86.405 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

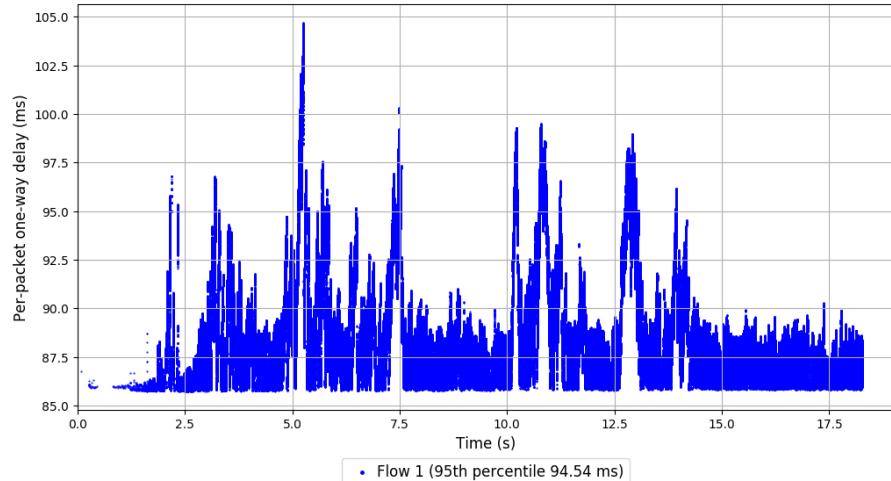
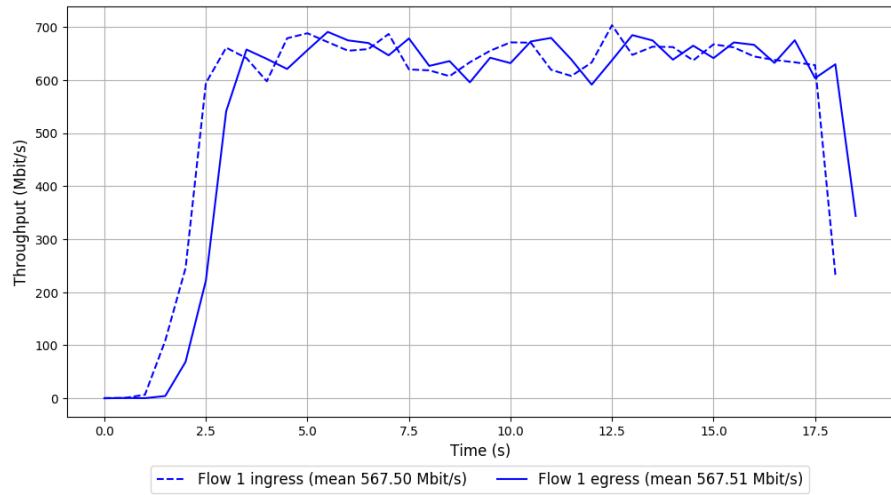
Start at: 2019-01-21 03:38:08

End at: 2019-01-21 03:38:38

Local clock offset: 6.688 ms

Remote clock offset: 6.234 ms

Run 1: Report of Indigo-MusesC3 — Data Link

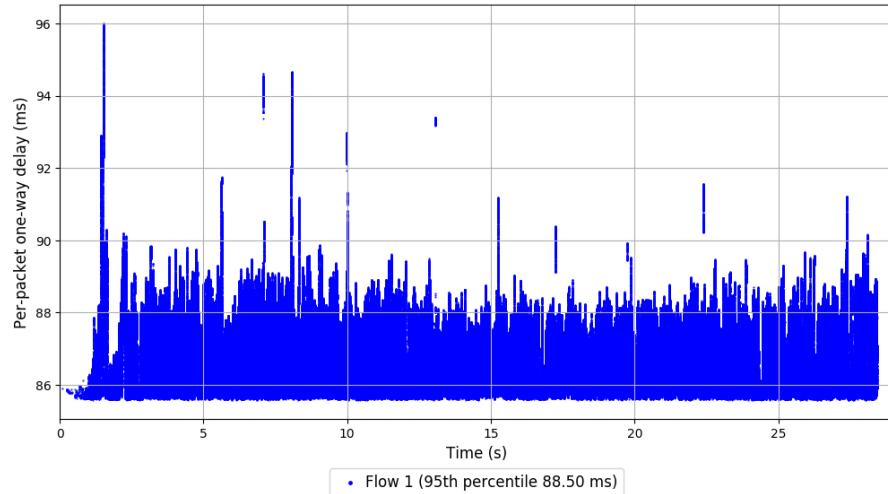
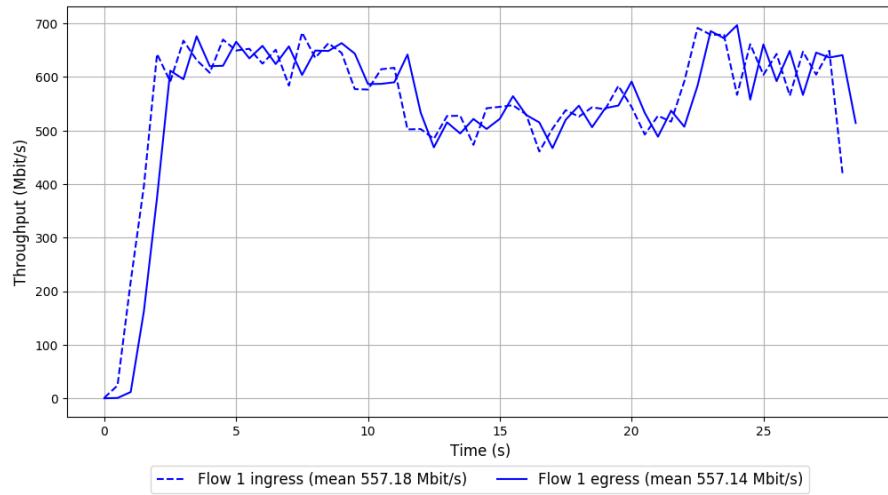


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 04:09:50
End at: 2019-01-21 04:10:20
Local clock offset: 23.938 ms
Remote clock offset: 23.231 ms

# Below is generated by plot.py at 2019-01-21 07:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.14 Mbit/s
95th percentile per-packet one-way delay: 88.501 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 557.14 Mbit/s
95th percentile per-packet one-way delay: 88.501 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC3 — Data Link

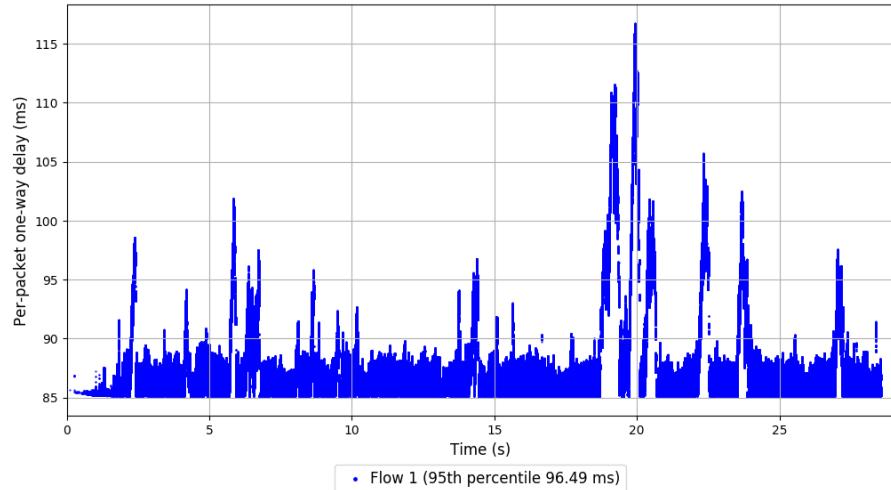
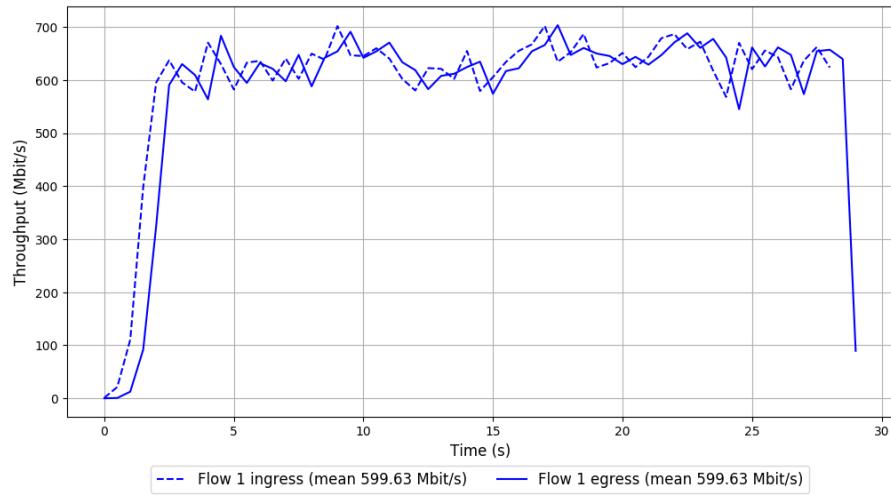


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 04:41:24
End at: 2019-01-21 04:41:54
Local clock offset: 41.51 ms
Remote clock offset: 40.253 ms

# Below is generated by plot.py at 2019-01-21 07:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 599.63 Mbit/s
95th percentile per-packet one-way delay: 96.494 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 599.63 Mbit/s
95th percentile per-packet one-way delay: 96.494 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC3 — Data Link

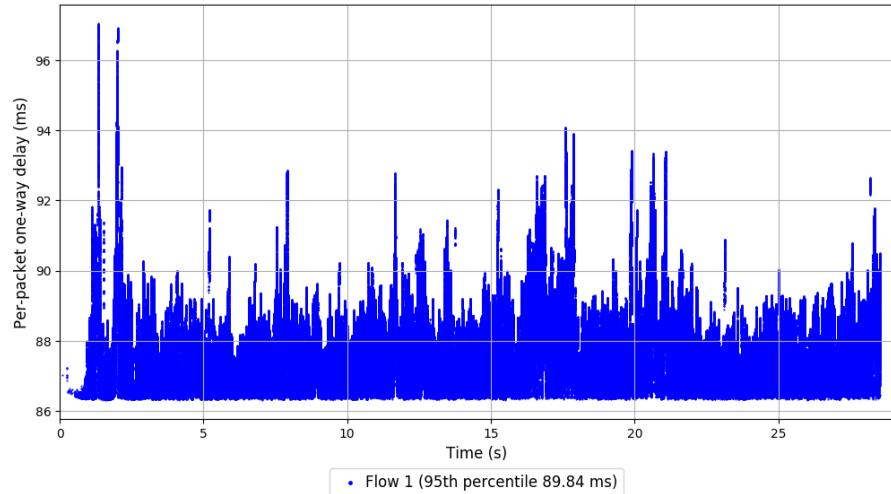
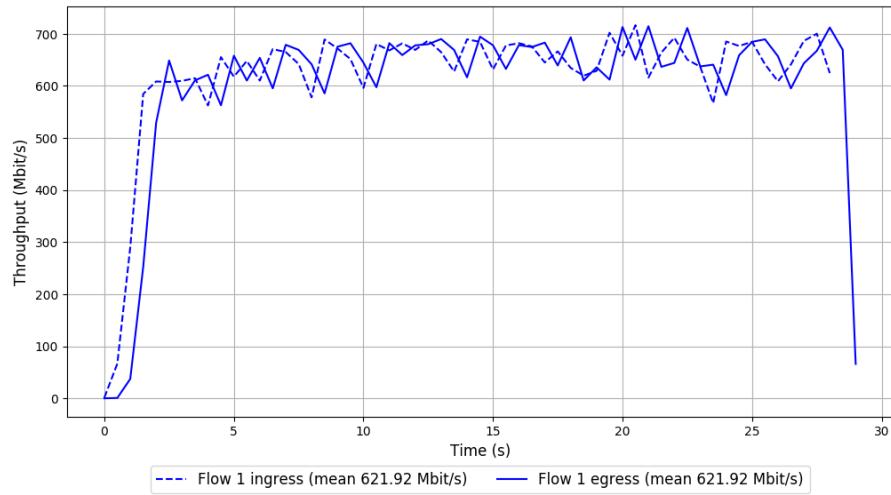


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 05:13:03
End at: 2019-01-21 05:13:33
Local clock offset: 19.521 ms
Remote clock offset: 19.135 ms

# Below is generated by plot.py at 2019-01-21 07:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 621.92 Mbit/s
95th percentile per-packet one-way delay: 89.836 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 621.92 Mbit/s
95th percentile per-packet one-way delay: 89.836 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC3 — Data Link

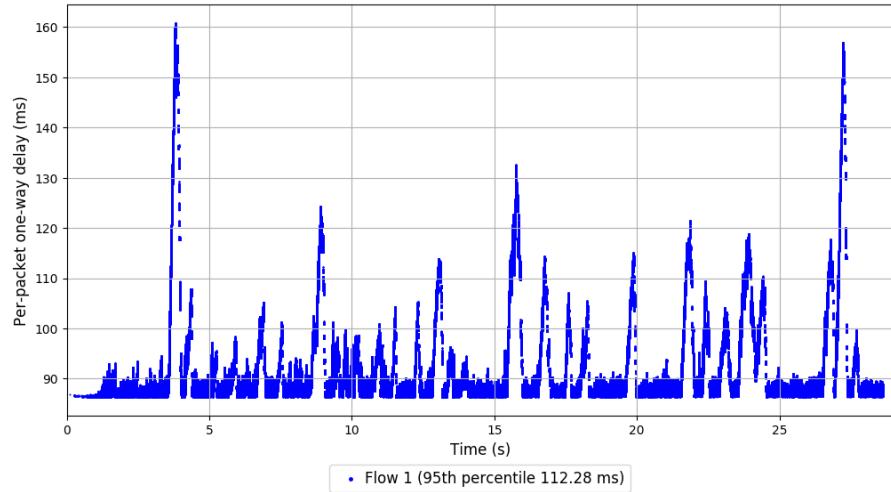
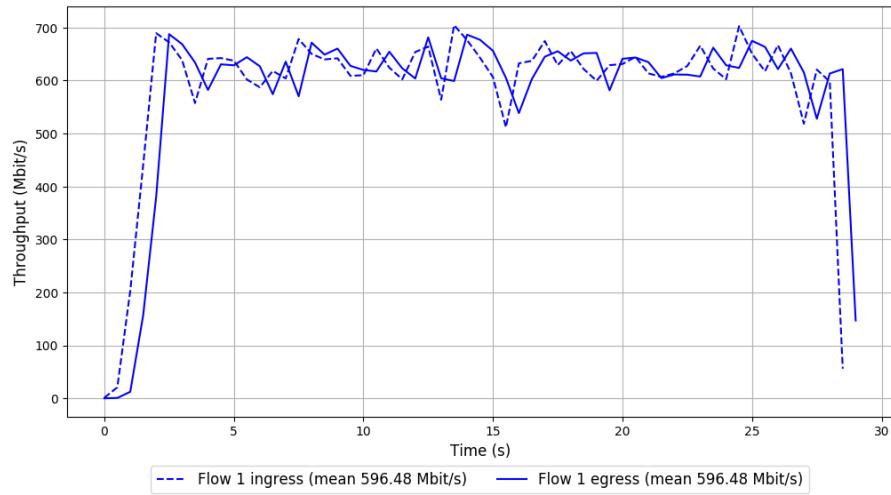


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 05:44:31
End at: 2019-01-21 05:45:01
Local clock offset: 8.732 ms
Remote clock offset: 4.339 ms

# Below is generated by plot.py at 2019-01-21 07:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 596.48 Mbit/s
95th percentile per-packet one-way delay: 112.283 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 596.48 Mbit/s
95th percentile per-packet one-way delay: 112.283 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC3 — Data Link

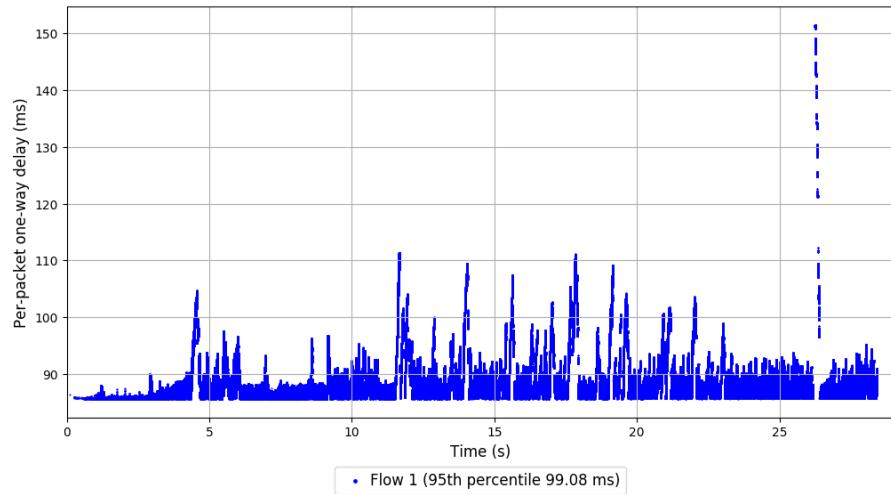
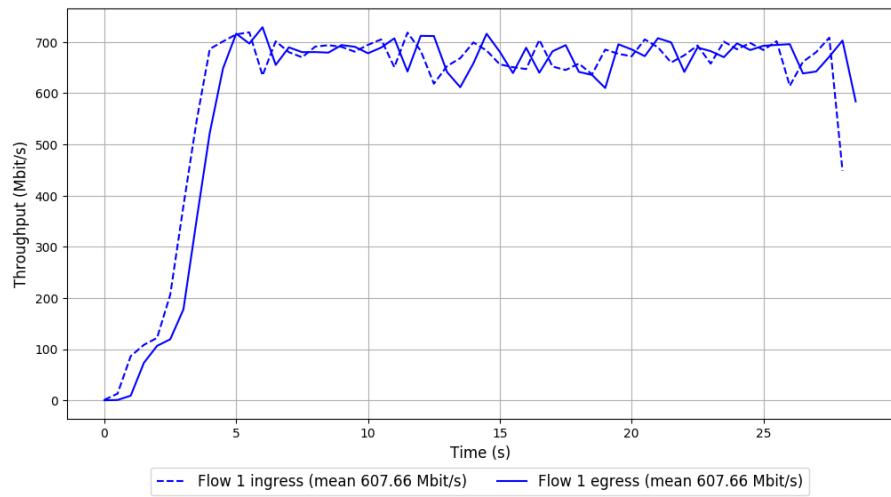


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-21 03:42:35
End at: 2019-01-21 03:43:05
Local clock offset: 10.499 ms
Remote clock offset: 10.273 ms

# Below is generated by plot.py at 2019-01-21 07:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.66 Mbit/s
95th percentile per-packet one-way delay: 99.083 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 607.66 Mbit/s
95th percentile per-packet one-way delay: 99.083 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC5 — Data Link

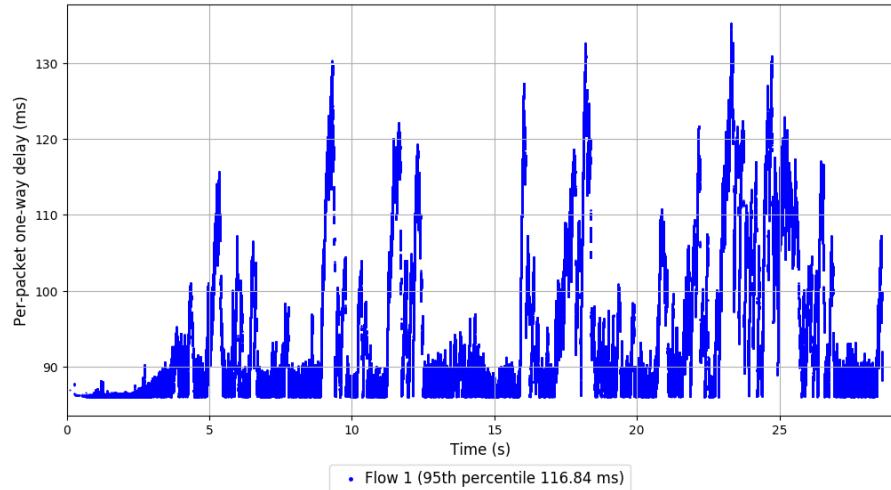
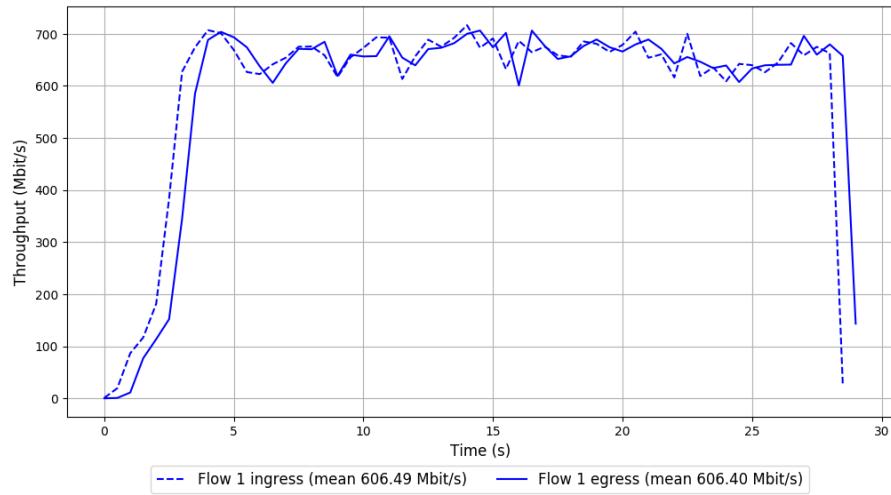


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 04:14:13
End at: 2019-01-21 04:14:44
Local clock offset: 21.048 ms
Remote clock offset: 20.188 ms

# Below is generated by plot.py at 2019-01-21 07:44:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 606.40 Mbit/s
95th percentile per-packet one-way delay: 116.845 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 606.40 Mbit/s
95th percentile per-packet one-way delay: 116.845 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC5 — Data Link

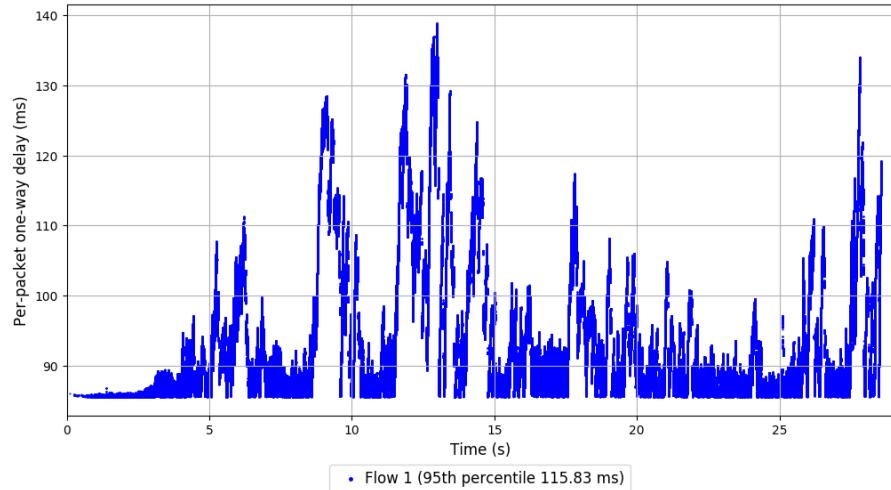
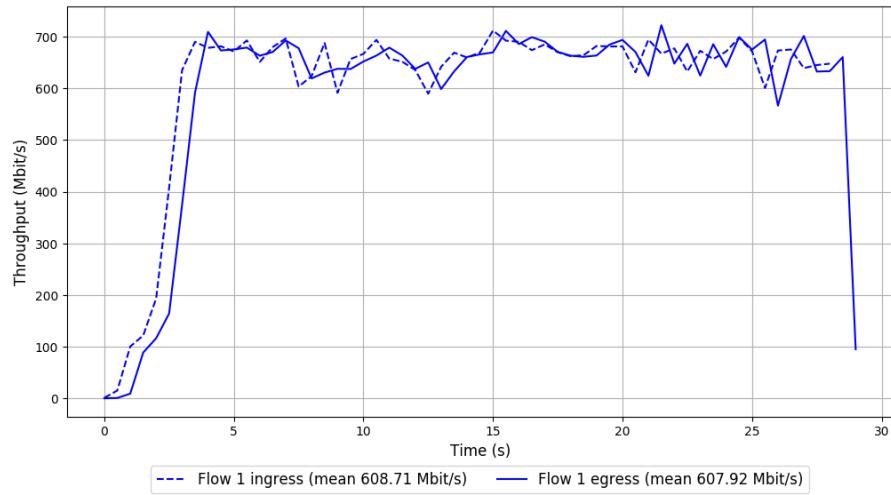


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 04:45:47
End at: 2019-01-21 04:46:17
Local clock offset: 27.633 ms
Remote clock offset: 27.05 ms

# Below is generated by plot.py at 2019-01-21 07:52:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.92 Mbit/s
95th percentile per-packet one-way delay: 115.829 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 607.92 Mbit/s
95th percentile per-packet one-way delay: 115.829 ms
Loss rate: 0.11%
```

Run 3: Report of Indigo-MusesC5 — Data Link

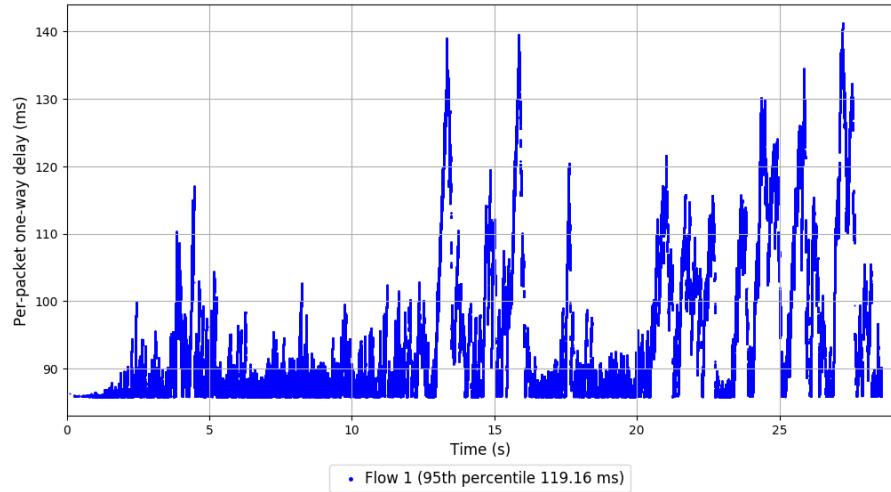
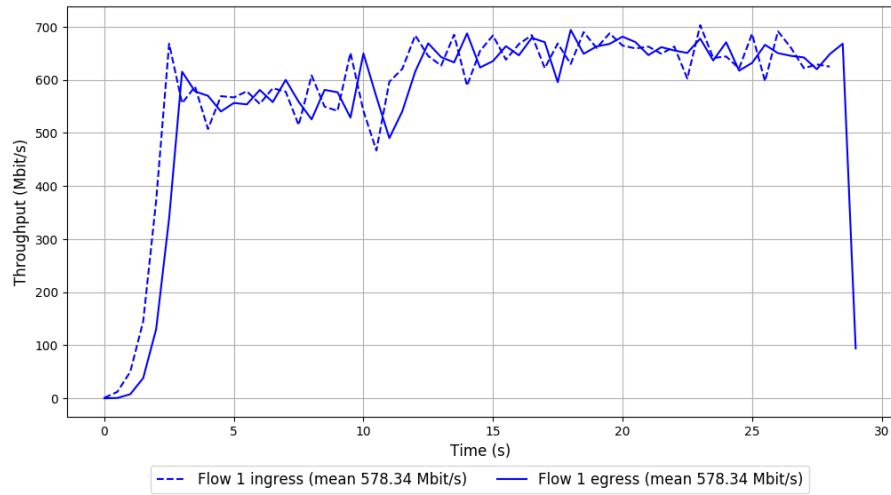


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 05:17:25
End at: 2019-01-21 05:17:55
Local clock offset: 17.978 ms
Remote clock offset: 17.041 ms

# Below is generated by plot.py at 2019-01-21 07:53:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 578.34 Mbit/s
95th percentile per-packet one-way delay: 119.158 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 578.34 Mbit/s
95th percentile per-packet one-way delay: 119.158 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC5 — Data Link

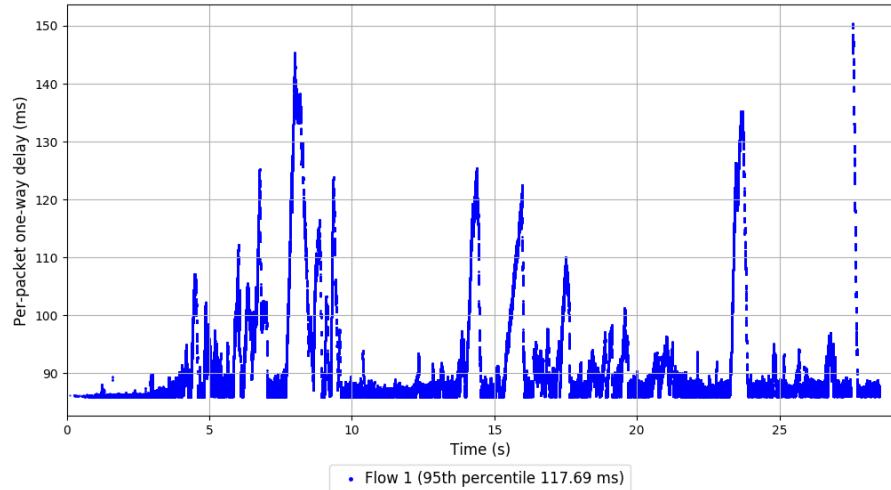
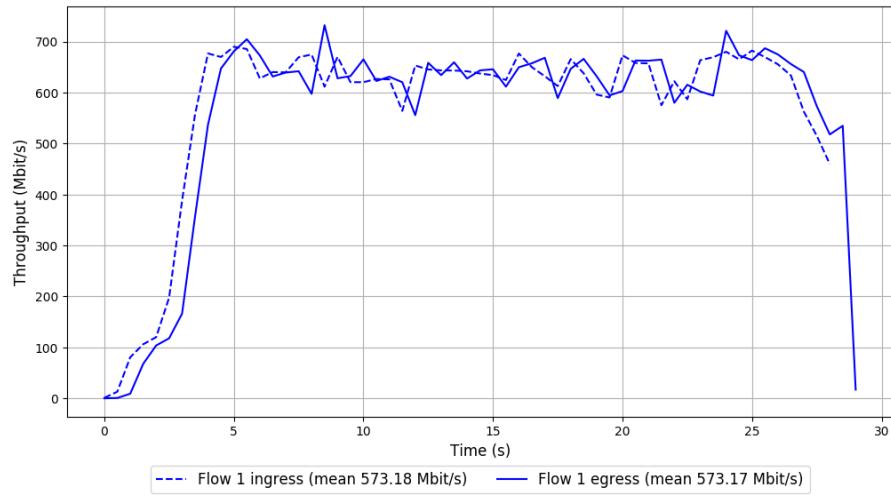


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 05:48:54
End at: 2019-01-21 05:49:24
Local clock offset: 9.838 ms
Remote clock offset: 4.595 ms

# Below is generated by plot.py at 2019-01-21 07:56:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 573.17 Mbit/s
95th percentile per-packet one-way delay: 117.685 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 573.17 Mbit/s
95th percentile per-packet one-way delay: 117.685 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC5 — Data Link

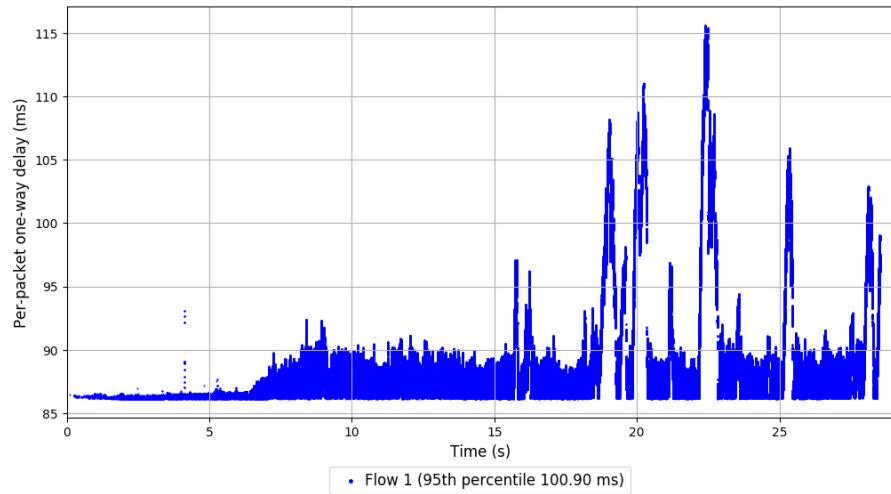
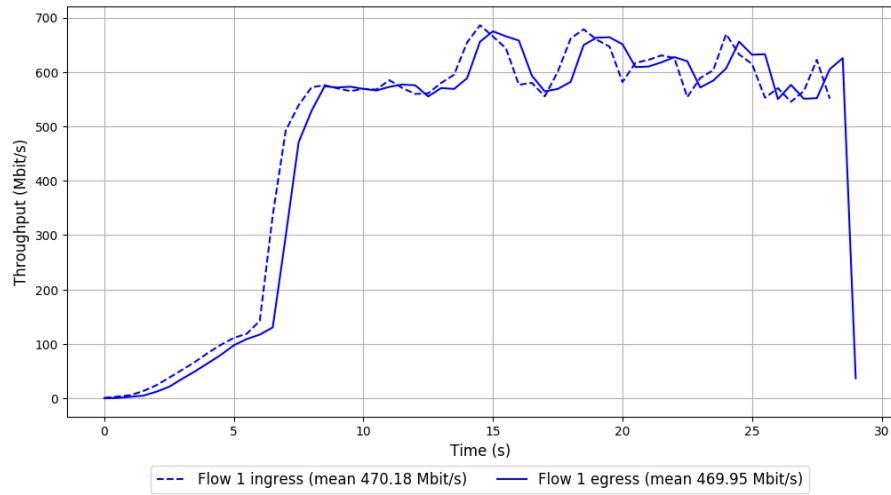


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-01-21 03:47:01
End at: 2019-01-21 03:47:31
Local clock offset: 12.185 ms
Remote clock offset: 11.929 ms

# Below is generated by plot.py at 2019-01-21 07:56:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 469.95 Mbit/s
95th percentile per-packet one-way delay: 100.904 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 469.95 Mbit/s
95th percentile per-packet one-way delay: 100.904 ms
Loss rate: 0.05%
```

Run 1: Report of Indigo-MusesD — Data Link

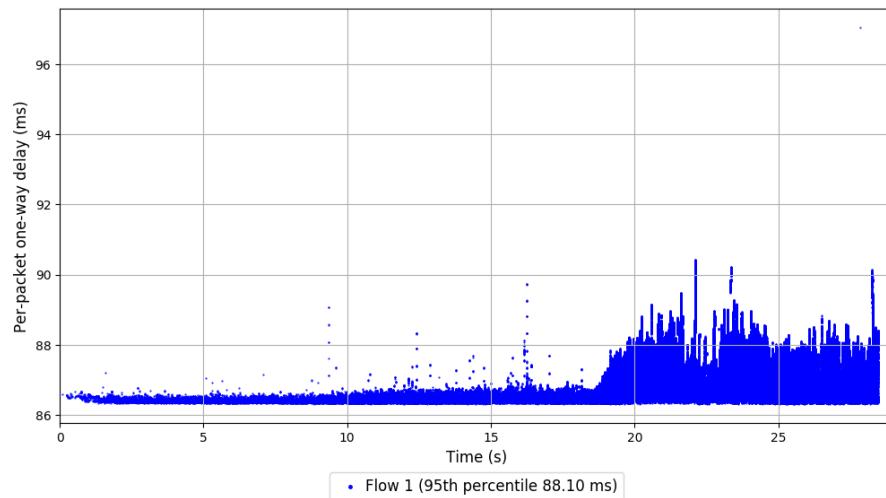
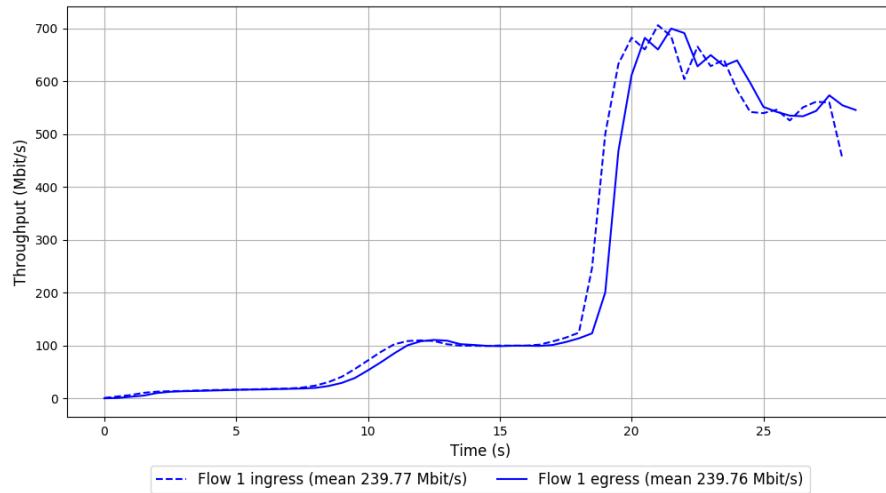


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 04:18:43
End at: 2019-01-21 04:19:13
Local clock offset: 20.442 ms
Remote clock offset: 20.42 ms

# Below is generated by plot.py at 2019-01-21 07:56:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.76 Mbit/s
95th percentile per-packet one-way delay: 88.096 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.76 Mbit/s
95th percentile per-packet one-way delay: 88.096 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesD — Data Link

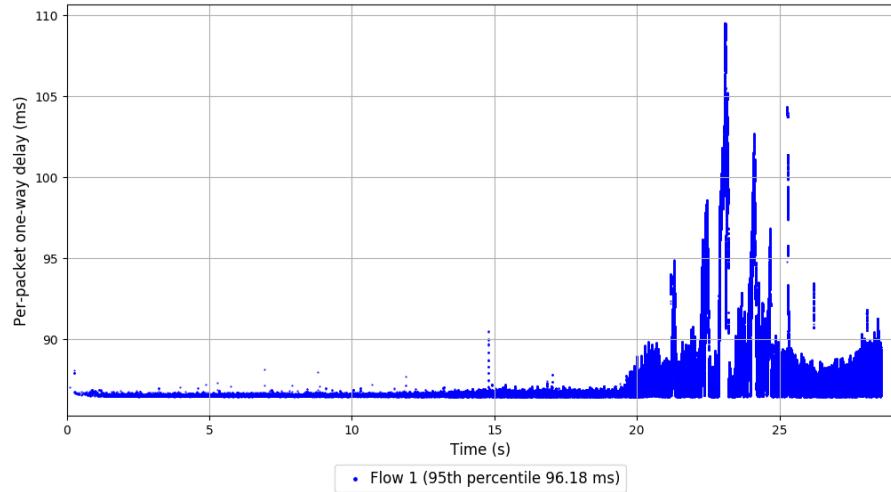
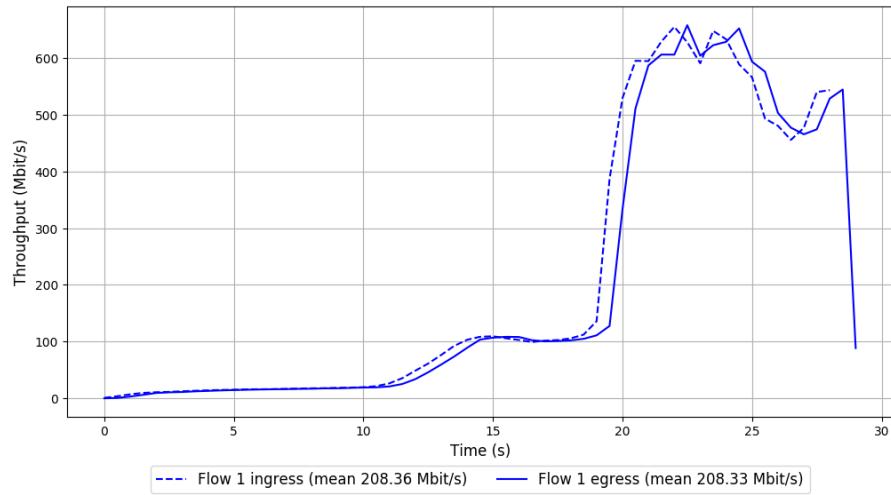


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 04:50:17
End at: 2019-01-21 04:50:47
Local clock offset: 20.213 ms
Remote clock offset: 19.698 ms

# Below is generated by plot.py at 2019-01-21 07:56:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.33 Mbit/s
95th percentile per-packet one-way delay: 96.184 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 208.33 Mbit/s
95th percentile per-packet one-way delay: 96.184 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesD — Data Link

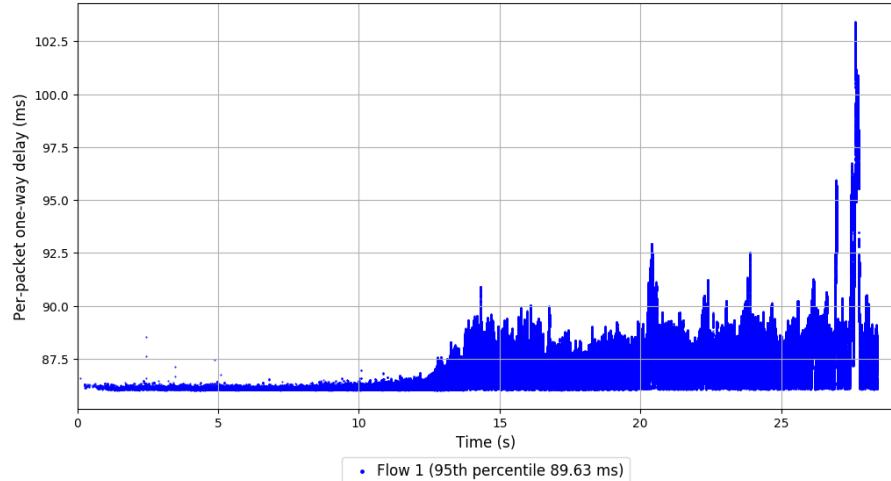
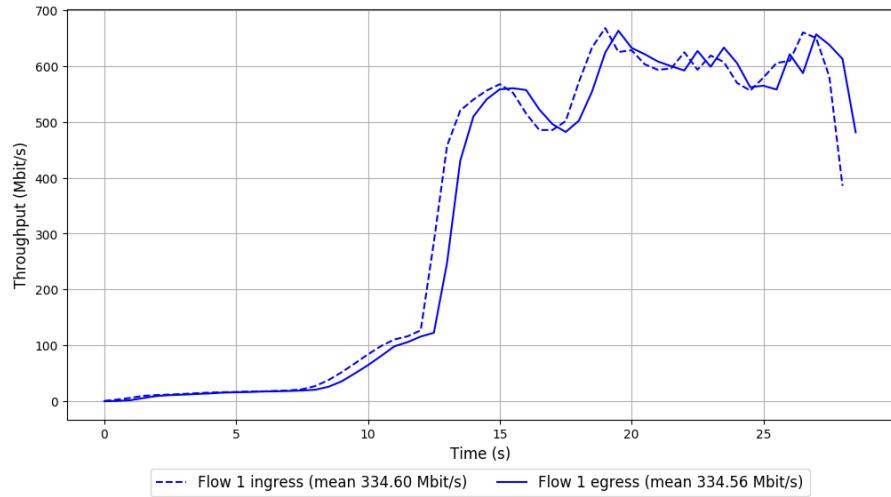


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 05:21:54
End at: 2019-01-21 05:22:24
Local clock offset: 12.046 ms
Remote clock offset: 10.696 ms

# Below is generated by plot.py at 2019-01-21 07:56:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 334.56 Mbit/s
95th percentile per-packet one-way delay: 89.627 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 334.56 Mbit/s
95th percentile per-packet one-way delay: 89.627 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesD — Data Link

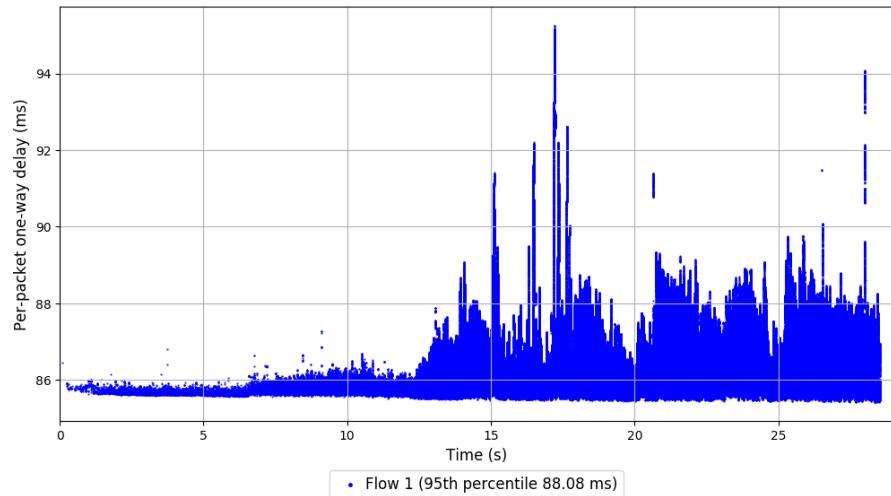
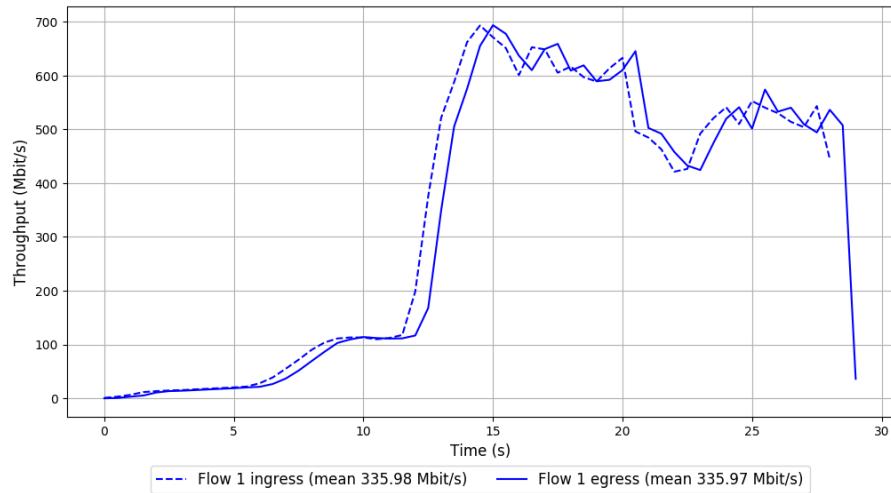


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 05:53:23
End at: 2019-01-21 05:53:53
Local clock offset: 6.848 ms
Remote clock offset: 3.307 ms

# Below is generated by plot.py at 2019-01-21 07:56:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.97 Mbit/s
95th percentile per-packet one-way delay: 88.083 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 335.97 Mbit/s
95th percentile per-packet one-way delay: 88.083 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesD — Data Link

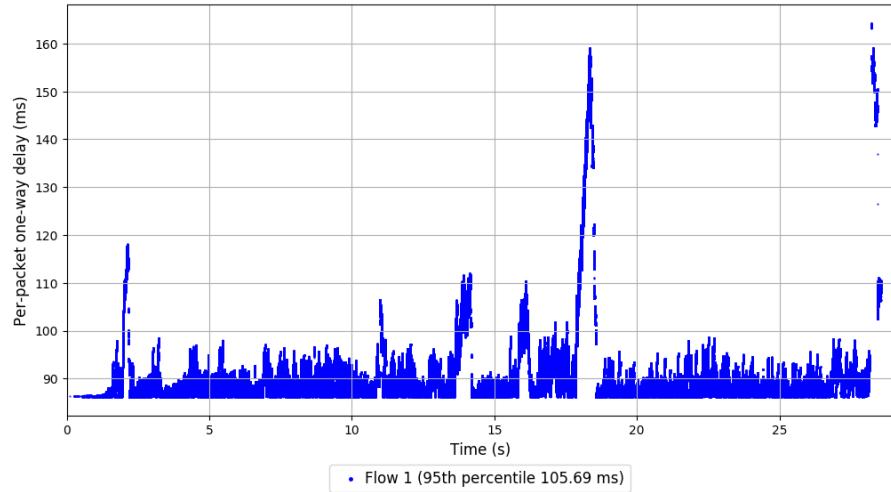
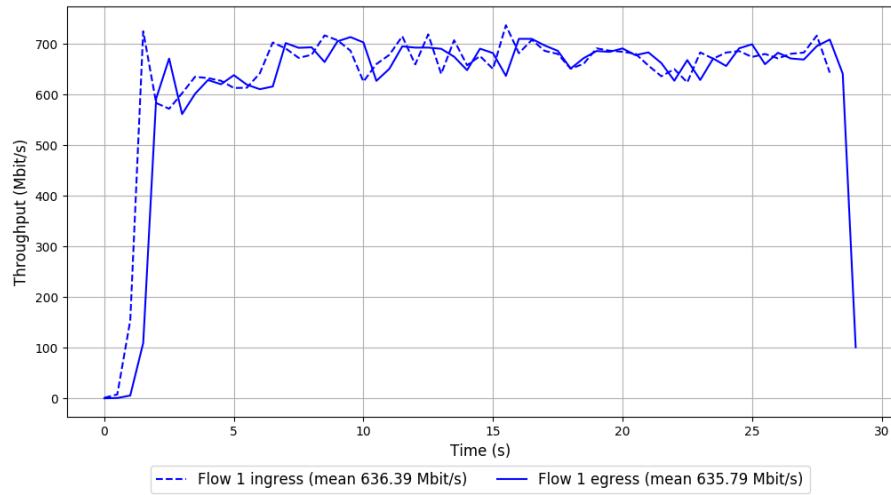


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 04:02:11
End at: 2019-01-21 04:02:41
Local clock offset: 19.861 ms
Remote clock offset: 19.457 ms

# Below is generated by plot.py at 2019-01-21 08:04:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 635.79 Mbit/s
95th percentile per-packet one-way delay: 105.690 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 635.79 Mbit/s
95th percentile per-packet one-way delay: 105.690 ms
Loss rate: 0.08%
```

Run 1: Report of Indigo-MusesT — Data Link

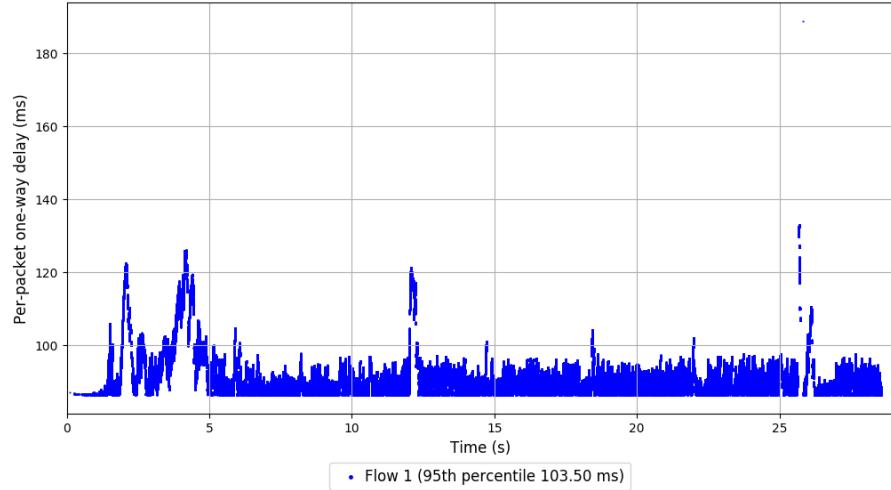
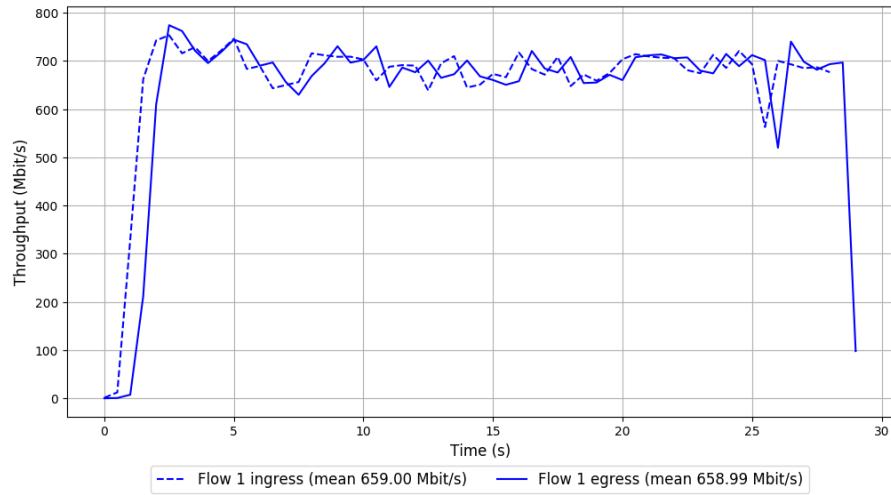


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 04:33:47
End at: 2019-01-21 04:34:17
Local clock offset: 32.996 ms
Remote clock offset: 32.111 ms

# Below is generated by plot.py at 2019-01-21 08:04:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 658.99 Mbit/s
95th percentile per-packet one-way delay: 103.499 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 658.99 Mbit/s
95th percentile per-packet one-way delay: 103.499 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesT — Data Link

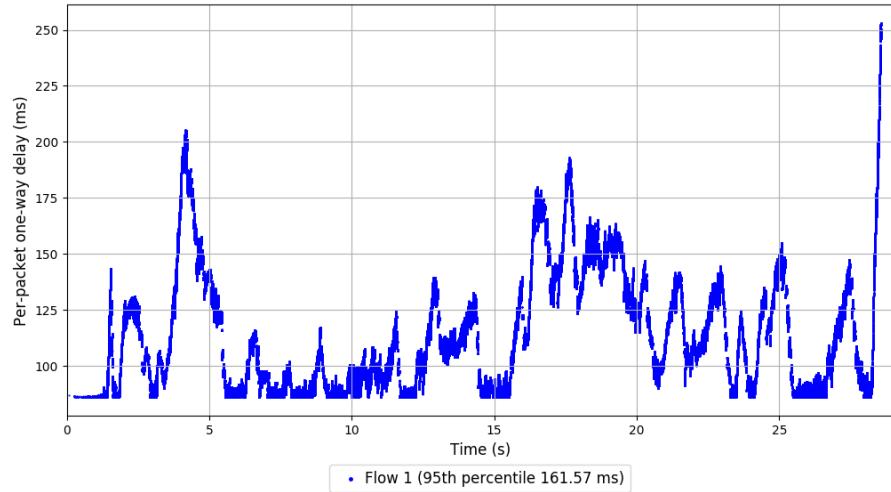
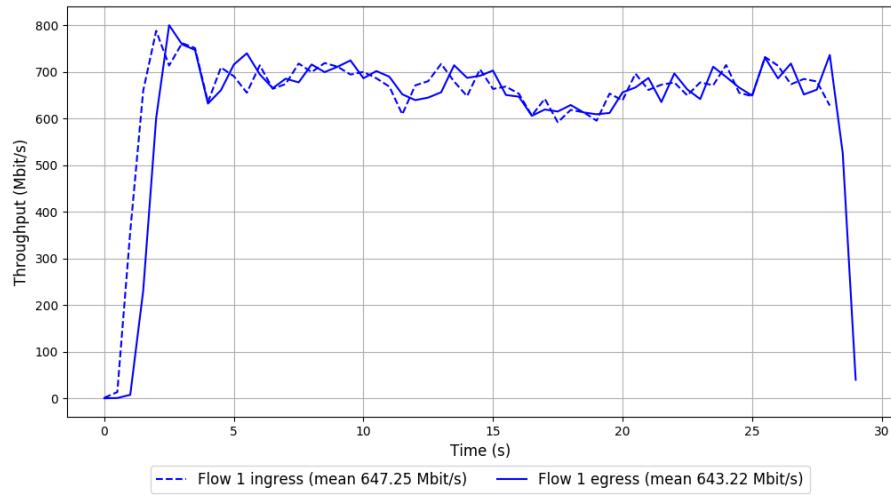


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 05:05:23
End at: 2019-01-21 05:05:53
Local clock offset: 16.616 ms
Remote clock offset: 16.217 ms

# Below is generated by plot.py at 2019-01-21 08:06:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 643.22 Mbit/s
95th percentile per-packet one-way delay: 161.569 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 643.22 Mbit/s
95th percentile per-packet one-way delay: 161.569 ms
Loss rate: 0.62%
```

Run 3: Report of Indigo-MusesT — Data Link

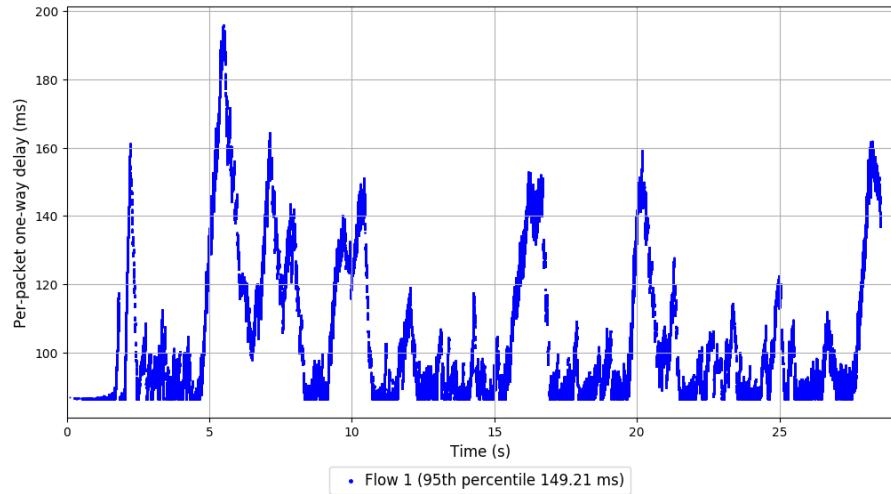
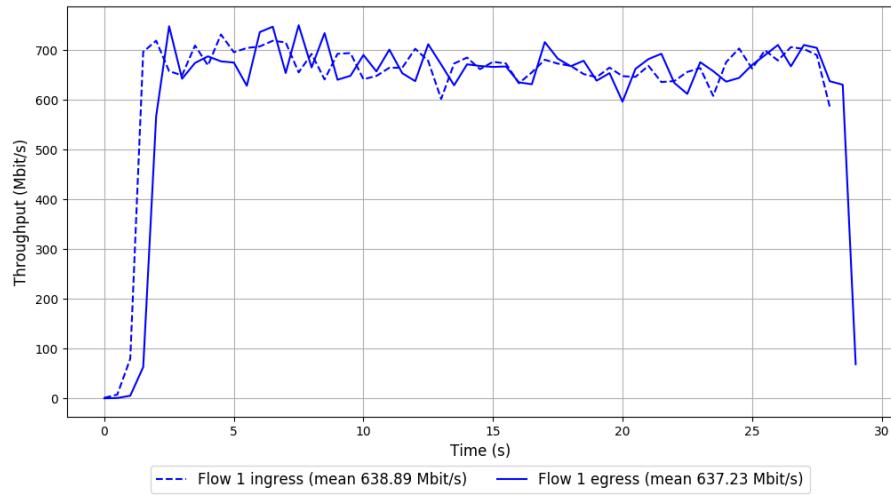


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 05:37:05
End at: 2019-01-21 05:37:35
Local clock offset: 7.954 ms
Remote clock offset: 4.347 ms

# Below is generated by plot.py at 2019-01-21 08:06:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 637.23 Mbit/s
95th percentile per-packet one-way delay: 149.206 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 637.23 Mbit/s
95th percentile per-packet one-way delay: 149.206 ms
Loss rate: 0.26%
```

Run 4: Report of Indigo-MusesT — Data Link

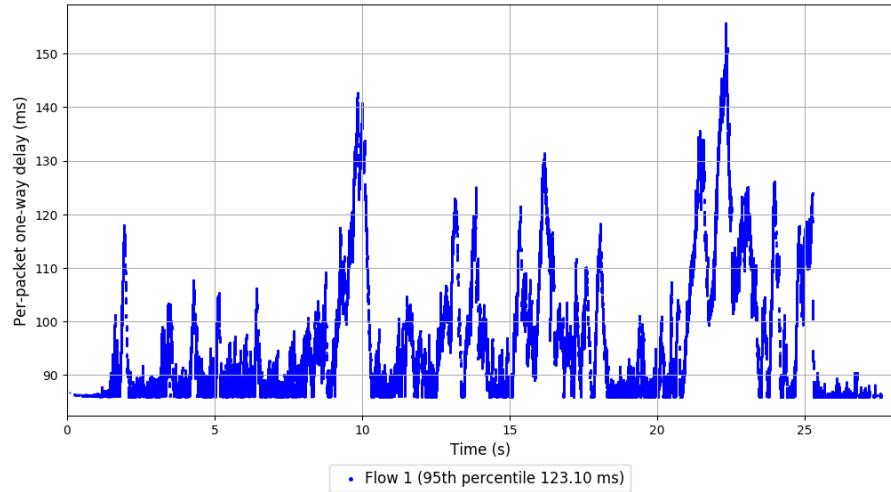
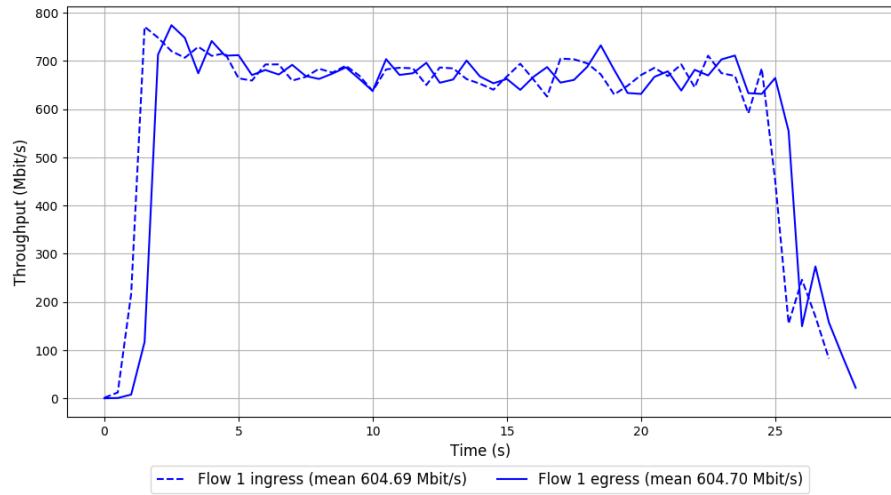


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 06:08:51
End at: 2019-01-21 06:09:21
Local clock offset: 2.051 ms
Remote clock offset: 1.618 ms

# Below is generated by plot.py at 2019-01-21 08:06:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 604.70 Mbit/s
95th percentile per-packet one-way delay: 123.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 604.70 Mbit/s
95th percentile per-packet one-way delay: 123.097 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesT — Data Link

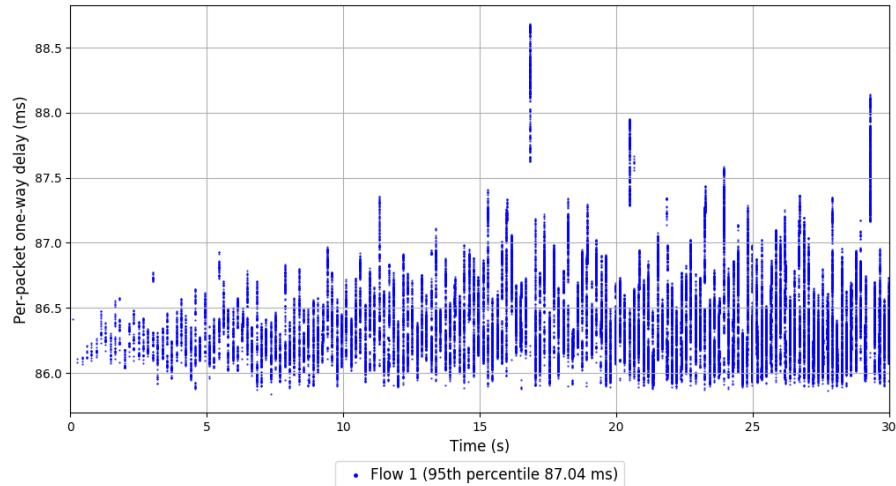
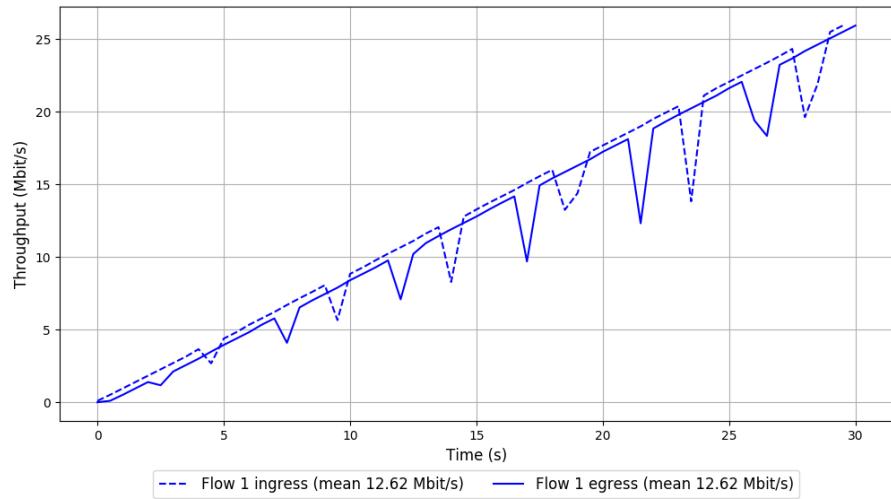


Run 1: Statistics of LEDBAT

```
Start at: 2019-01-21 03:48:33
End at: 2019-01-21 03:49:03
Local clock offset: 14.936 ms
Remote clock offset: 14.285 ms

# Below is generated by plot.py at 2019-01-21 08:06:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 87.042 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 87.042 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

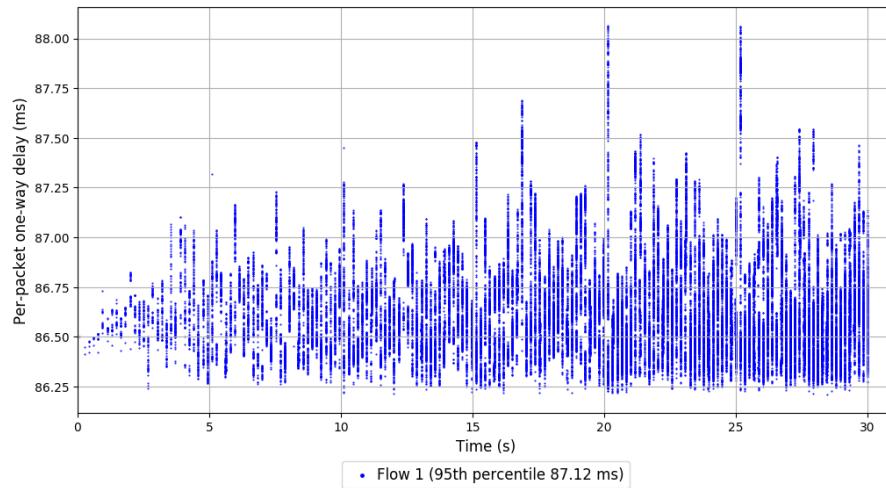
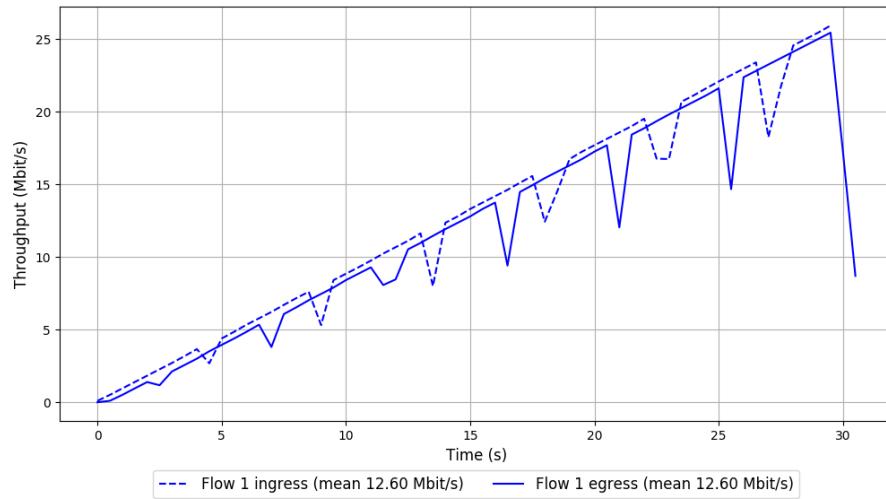


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-21 04:20:04
End at: 2019-01-21 04:20:34
Local clock offset: 21.34 ms
Remote clock offset: 20.904 ms

# Below is generated by plot.py at 2019-01-21 08:06:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 87.124 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 87.124 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

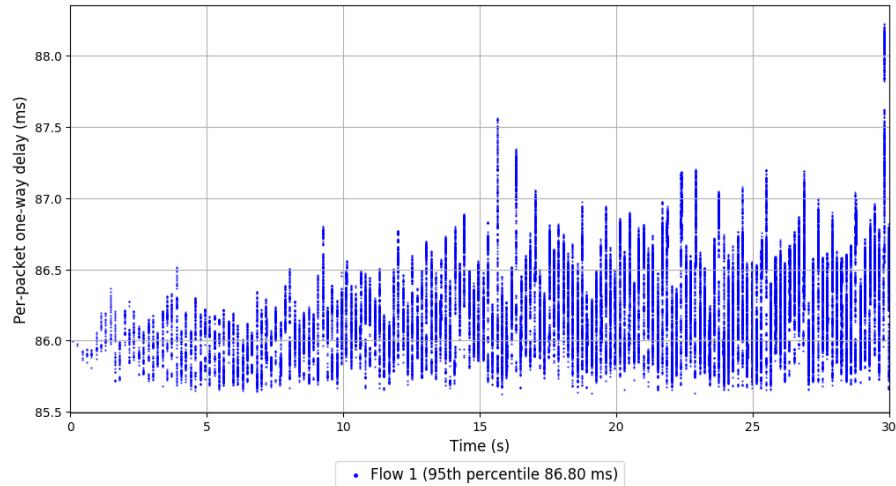
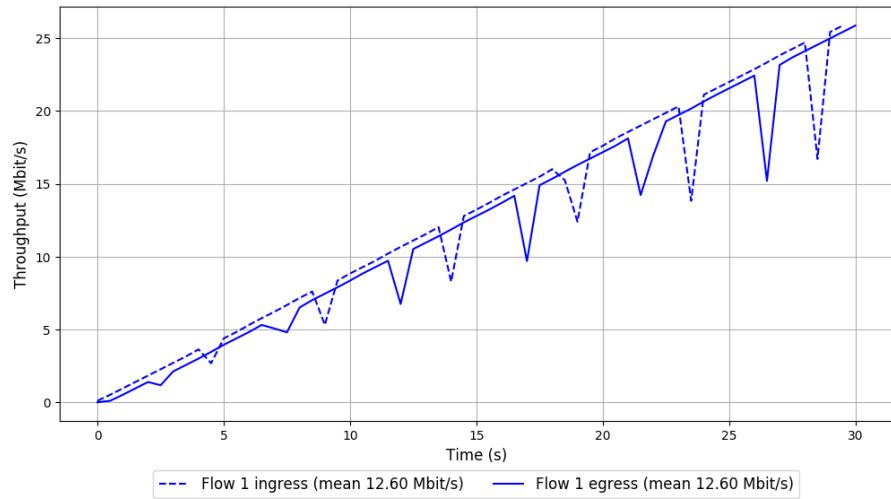


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-21 04:51:37
End at: 2019-01-21 04:52:07
Local clock offset: 18.813 ms
Remote clock offset: 18.228 ms

# Below is generated by plot.py at 2019-01-21 08:06:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 86.803 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 86.803 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

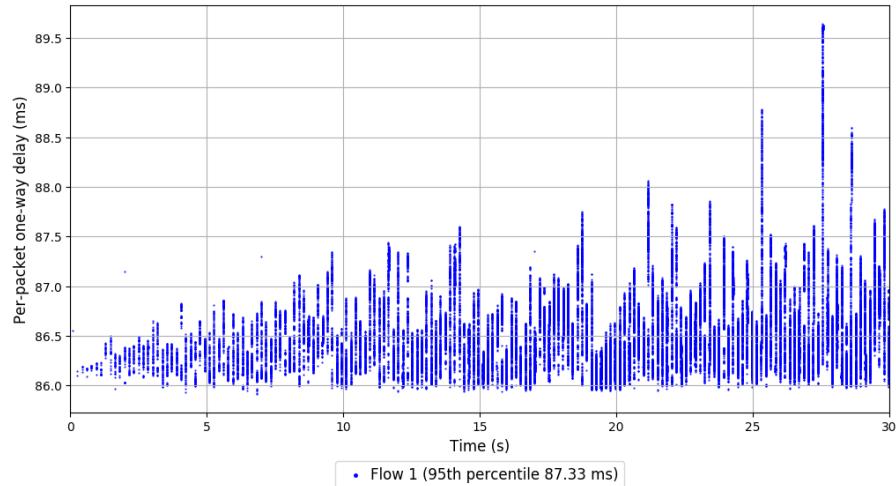
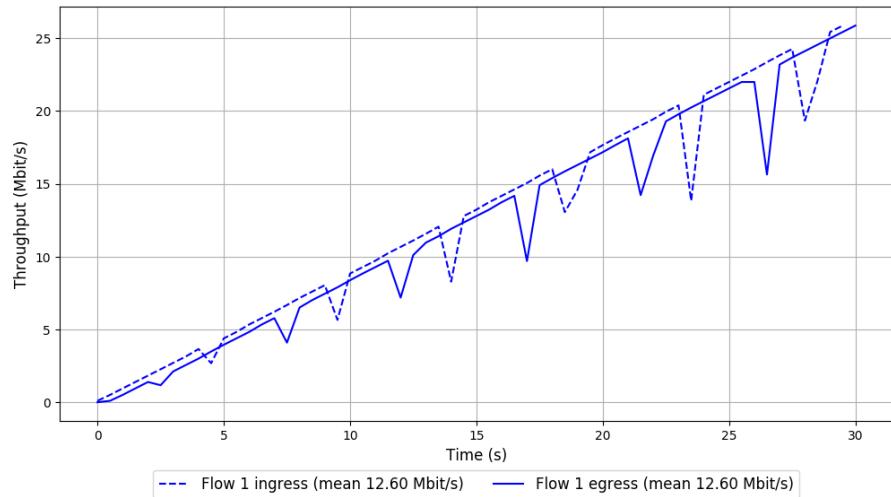


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-21 05:23:21
End at: 2019-01-21 05:23:51
Local clock offset: 10.648 ms
Remote clock offset: 9.369 ms

# Below is generated by plot.py at 2019-01-21 08:06:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 87.331 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 87.331 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

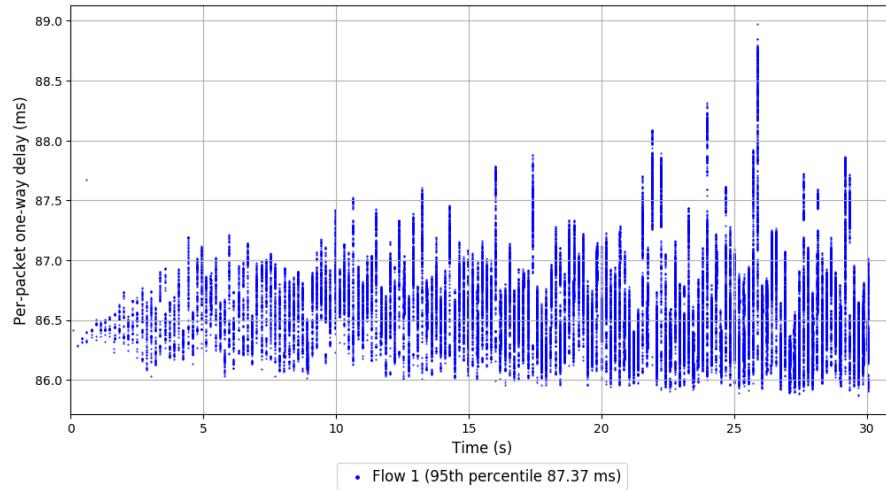
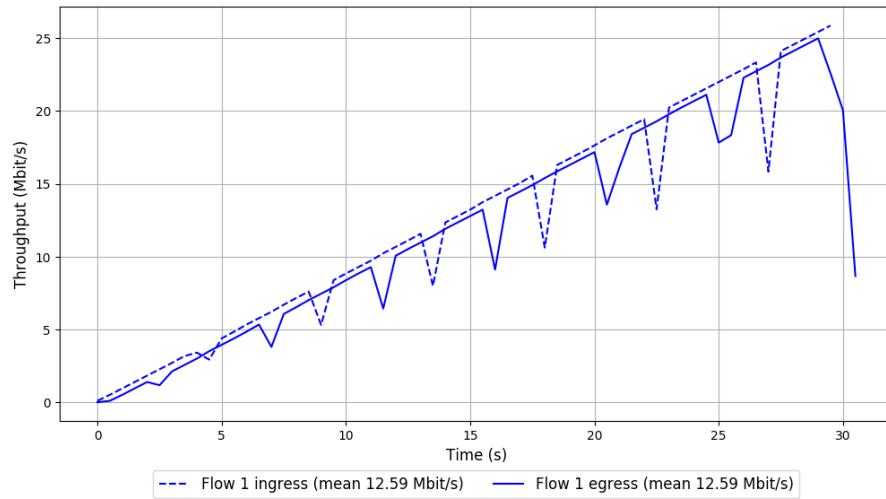


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-21 05:54:50
End at: 2019-01-21 05:55:20
Local clock offset: 5.847 ms
Remote clock offset: 2.886 ms

# Below is generated by plot.py at 2019-01-21 08:06:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 87.373 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 87.373 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

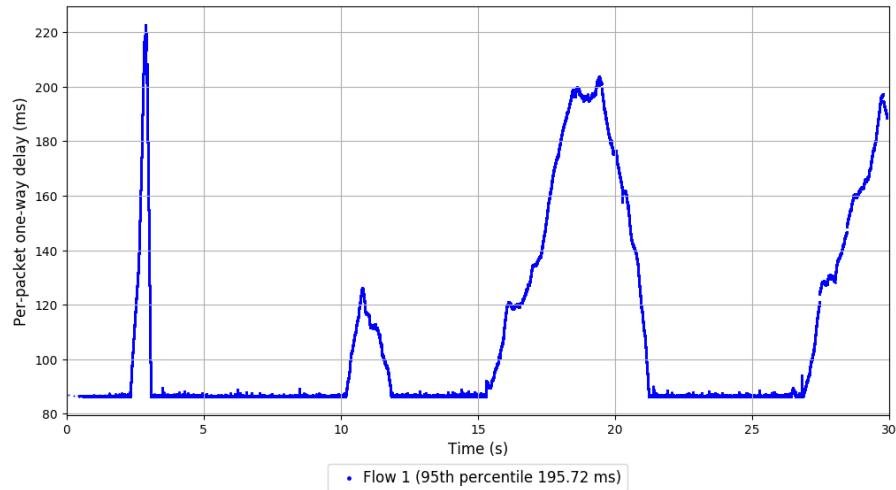
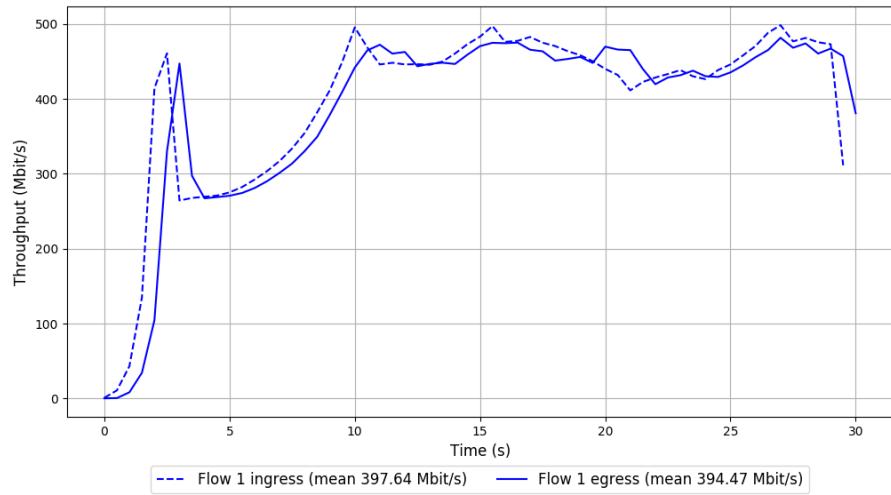


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-21 03:56:14
End at: 2019-01-21 03:56:44
Local clock offset: 14.037 ms
Remote clock offset: 13.734 ms

# Below is generated by plot.py at 2019-01-21 08:13:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 394.47 Mbit/s
95th percentile per-packet one-way delay: 195.720 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 394.47 Mbit/s
95th percentile per-packet one-way delay: 195.720 ms
Loss rate: 0.80%
```

Run 1: Report of PCC-Allegro — Data Link

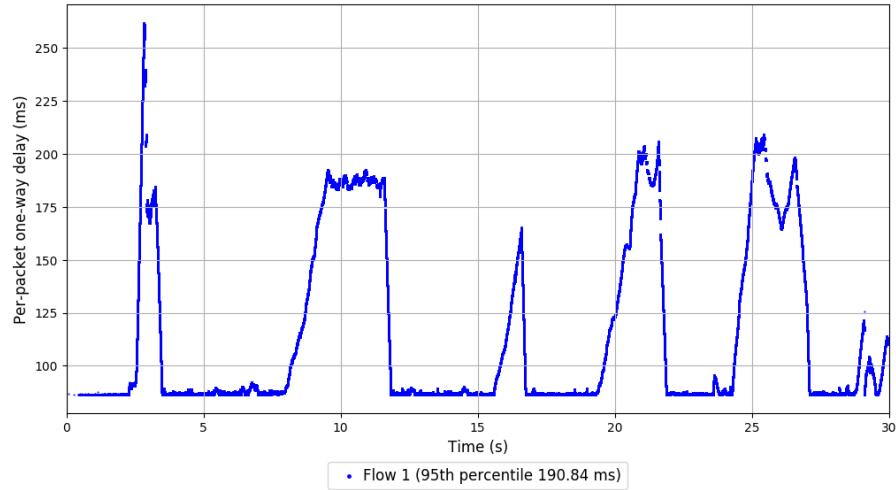
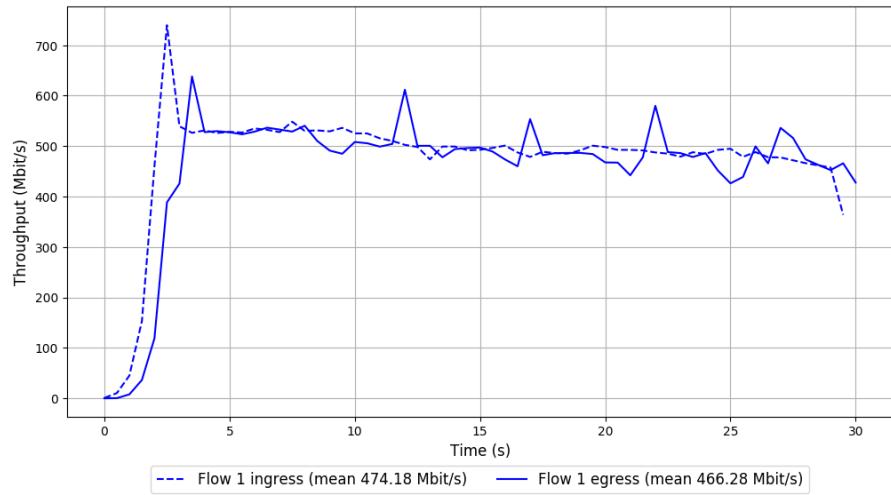


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-21 04:27:37
End at: 2019-01-21 04:28:07
Local clock offset: 26.685 ms
Remote clock offset: 26.119 ms

# Below is generated by plot.py at 2019-01-21 08:16:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 466.28 Mbit/s
95th percentile per-packet one-way delay: 190.835 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 466.28 Mbit/s
95th percentile per-packet one-way delay: 190.835 ms
Loss rate: 1.66%
```

Run 2: Report of PCC-Allegro — Data Link

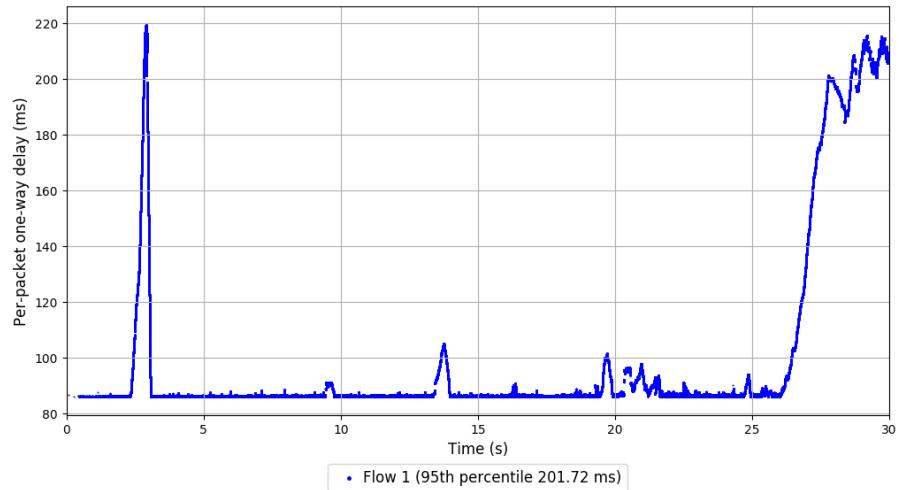
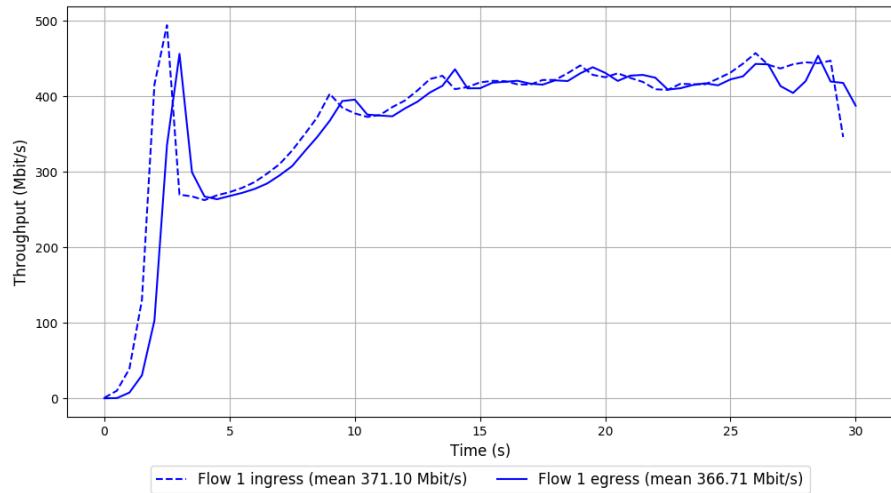


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-21 04:59:19
End at: 2019-01-21 04:59:49
Local clock offset: 15.69 ms
Remote clock offset: 15.366 ms

# Below is generated by plot.py at 2019-01-21 08:16:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 366.71 Mbit/s
95th percentile per-packet one-way delay: 201.716 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 366.71 Mbit/s
95th percentile per-packet one-way delay: 201.716 ms
Loss rate: 1.18%
```

Run 3: Report of PCC-Allegro — Data Link

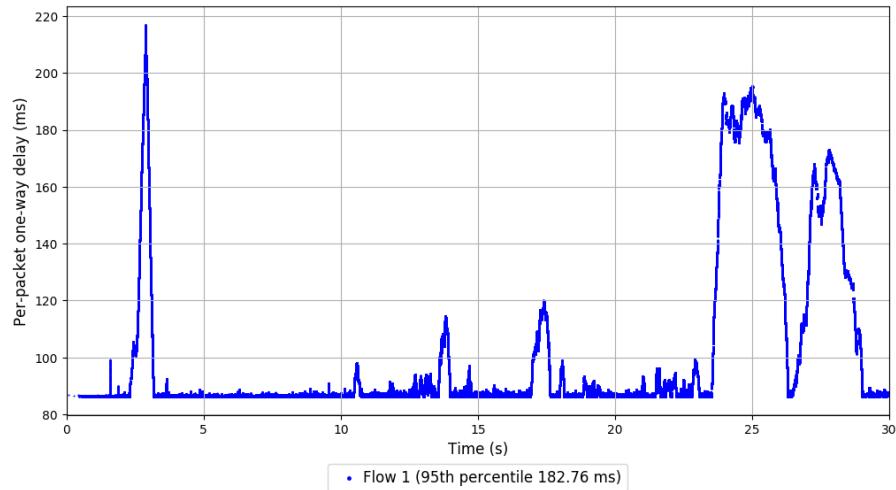
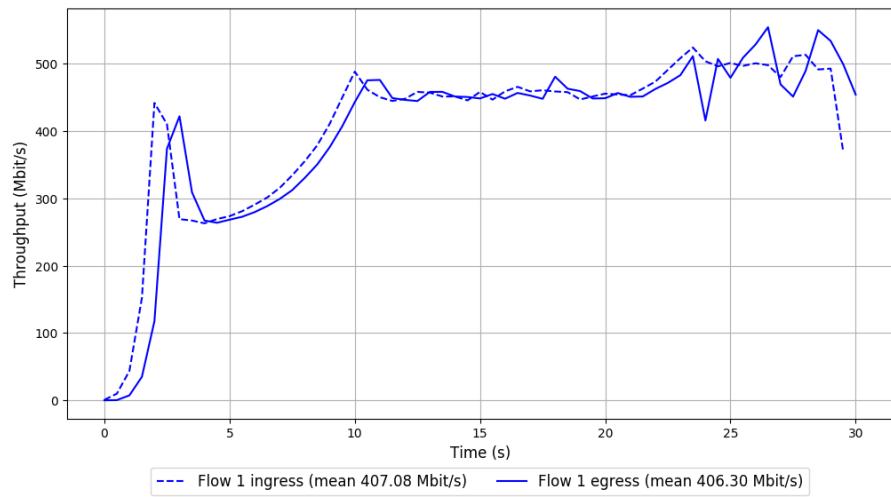


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-21 05:31:01
End at: 2019-01-21 05:31:31
Local clock offset: 7.759 ms
Remote clock offset: 5.279 ms

# Below is generated by plot.py at 2019-01-21 08:24:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 406.30 Mbit/s
95th percentile per-packet one-way delay: 182.760 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 406.30 Mbit/s
95th percentile per-packet one-way delay: 182.760 ms
Loss rate: 0.19%
```

Run 4: Report of PCC-Allegro — Data Link

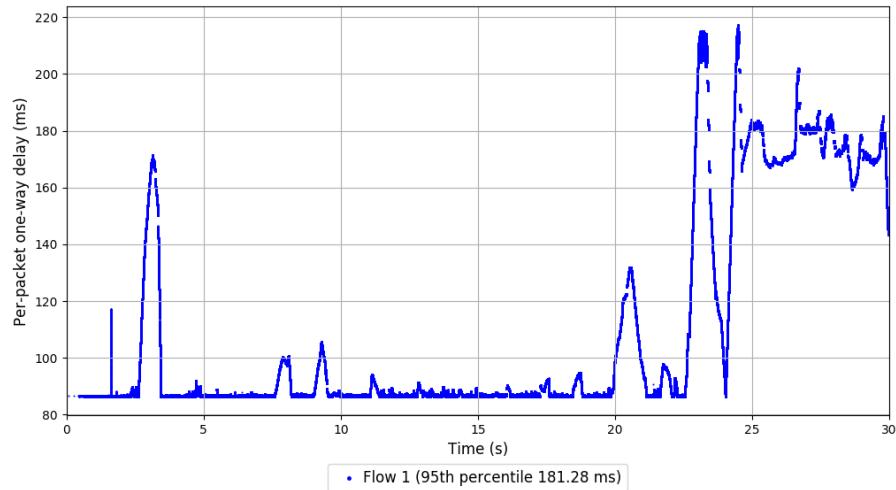
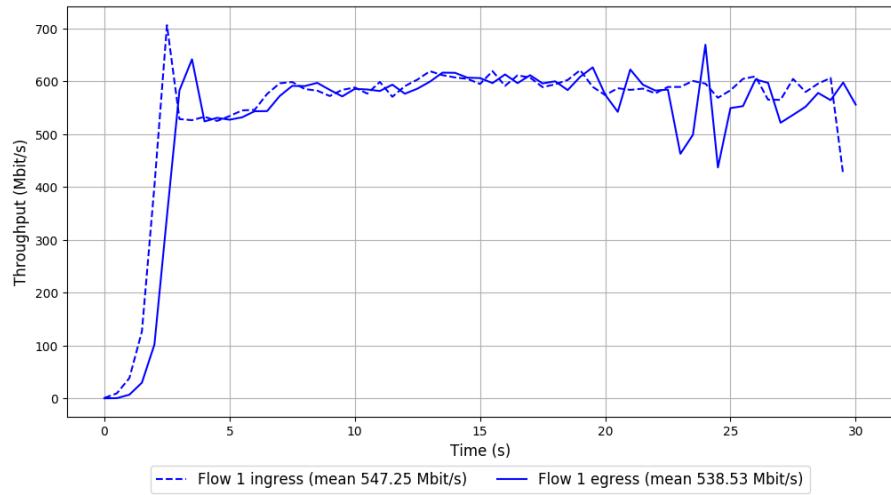


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-21 06:02:33
End at: 2019-01-21 06:03:03
Local clock offset: 2.521 ms
Remote clock offset: 1.766 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.53 Mbit/s
95th percentile per-packet one-way delay: 181.279 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 538.53 Mbit/s
95th percentile per-packet one-way delay: 181.279 ms
Loss rate: 1.59%
```

Run 5: Report of PCC-Allegro — Data Link

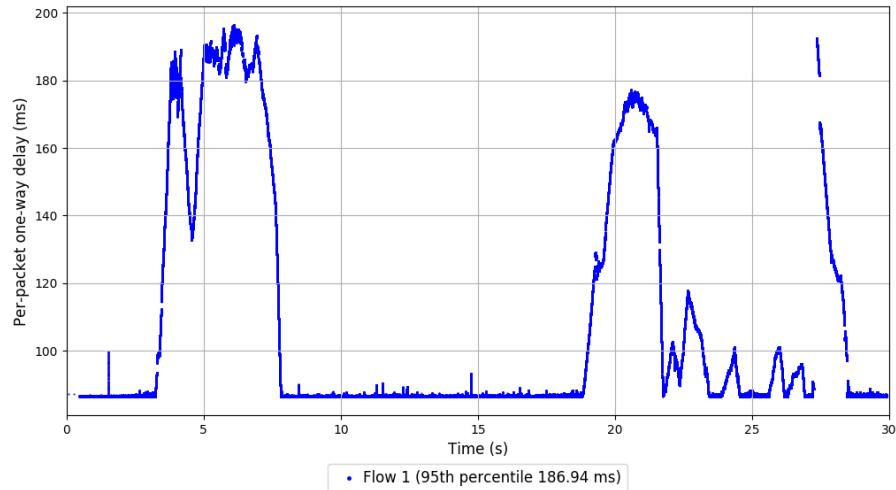
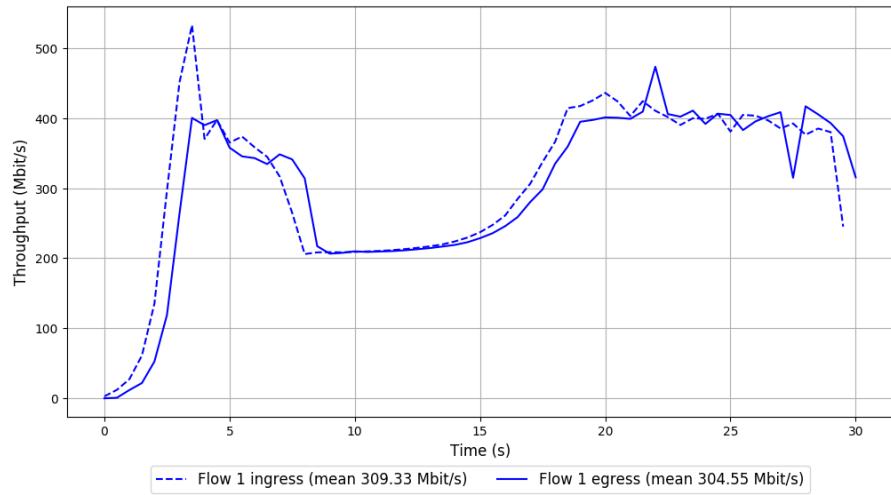


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-21 03:44:13
End at: 2019-01-21 03:44:43
Local clock offset: 9.065 ms
Remote clock offset: 8.97 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.55 Mbit/s
95th percentile per-packet one-way delay: 186.943 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 304.55 Mbit/s
95th percentile per-packet one-way delay: 186.943 ms
Loss rate: 1.55%
```

Run 1: Report of PCC-Expr — Data Link

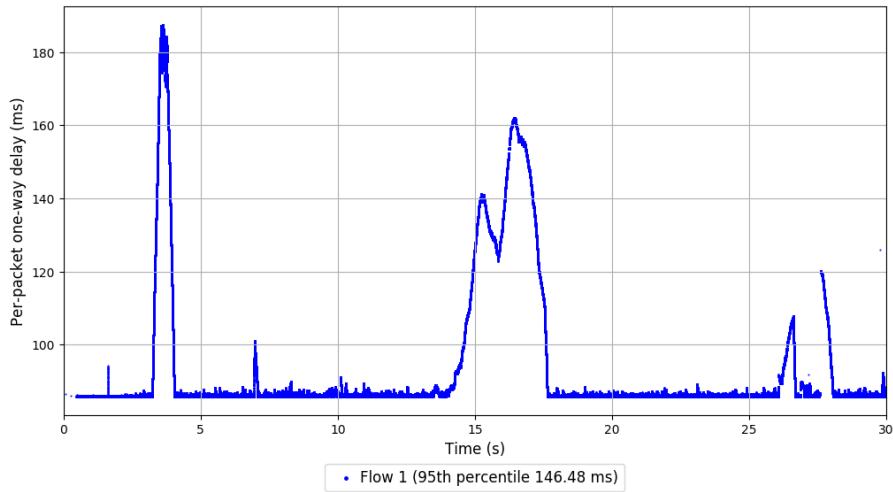
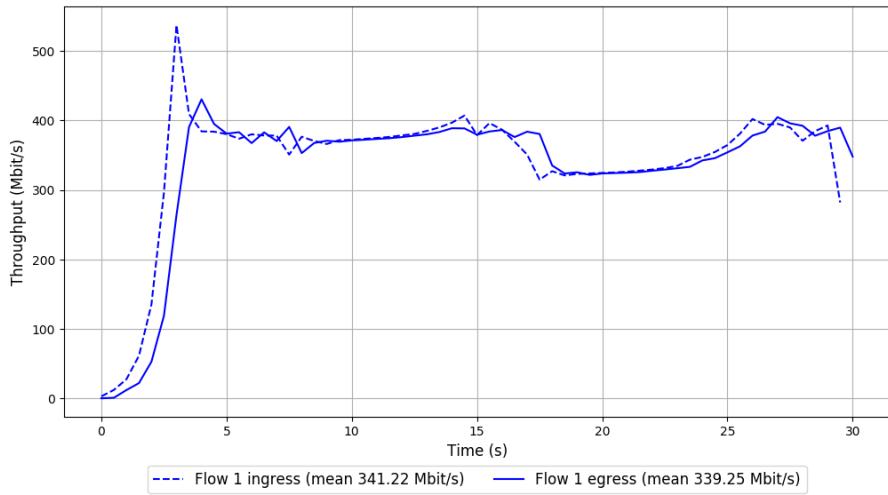


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-21 04:15:52
End at: 2019-01-21 04:16:22
Local clock offset: 20.805 ms
Remote clock offset: 19.92 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.25 Mbit/s
95th percentile per-packet one-way delay: 146.478 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 339.25 Mbit/s
95th percentile per-packet one-way delay: 146.478 ms
Loss rate: 0.58%
```

Run 2: Report of PCC-Expr — Data Link

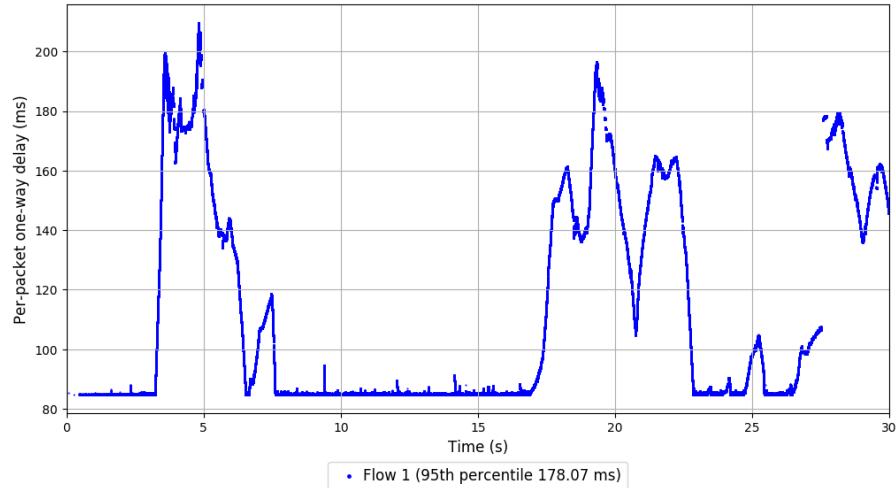
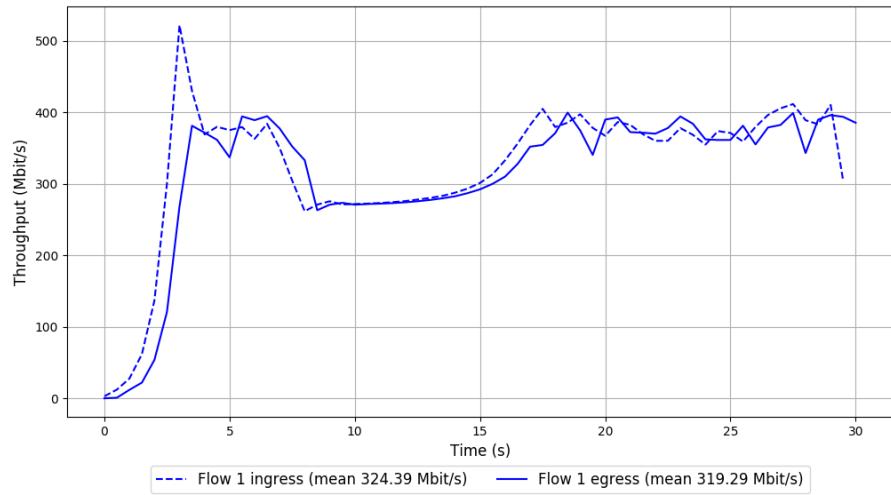


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-21 04:47:27
End at: 2019-01-21 04:47:57
Local clock offset: 25.175 ms
Remote clock offset: 23.645 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.29 Mbit/s
95th percentile per-packet one-way delay: 178.075 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 319.29 Mbit/s
95th percentile per-packet one-way delay: 178.075 ms
Loss rate: 1.57%
```

Run 3: Report of PCC-Expr — Data Link

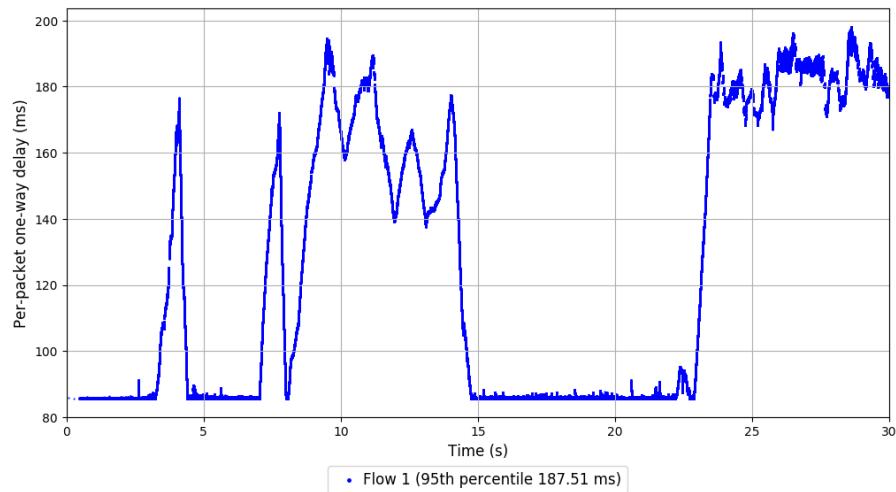
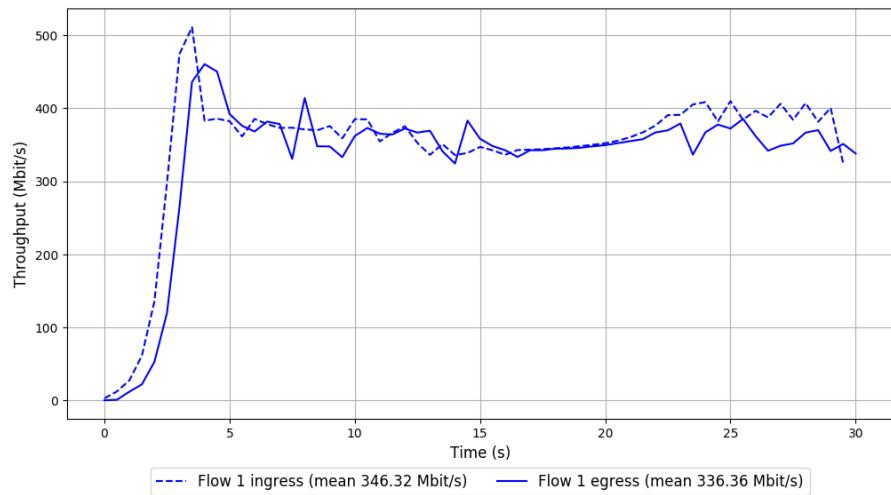


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-21 05:19:03
End at: 2019-01-21 05:19:33
Local clock offset: 15.386 ms
Remote clock offset: 14.441 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.36 Mbit/s
95th percentile per-packet one-way delay: 187.508 ms
Loss rate: 2.98%
-- Flow 1:
Average throughput: 336.36 Mbit/s
95th percentile per-packet one-way delay: 187.508 ms
Loss rate: 2.98%
```

Run 4: Report of PCC-Expr — Data Link

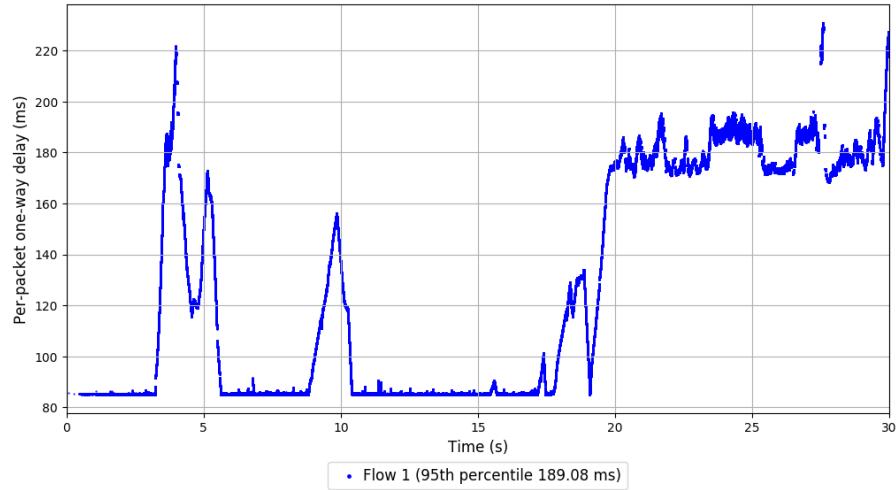
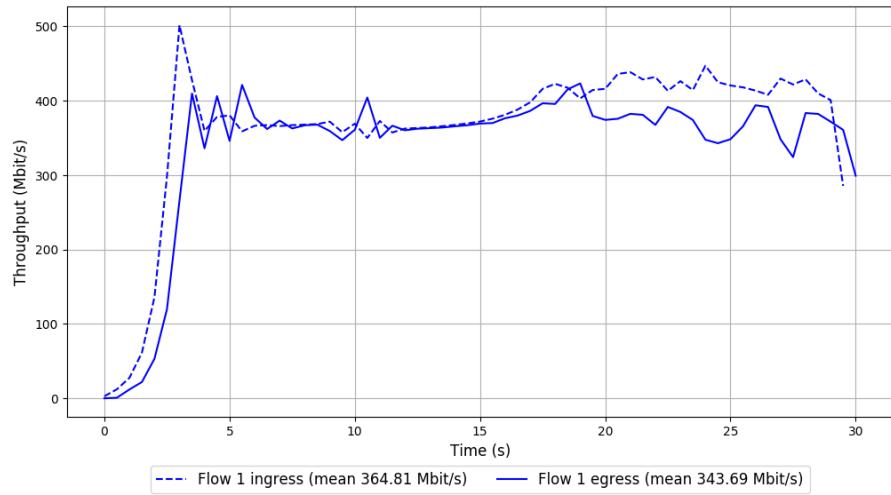


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-21 05:50:31
End at: 2019-01-21 05:51:01
Local clock offset: 9.969 ms
Remote clock offset: 4.339 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.69 Mbit/s
95th percentile per-packet one-way delay: 189.076 ms
Loss rate: 5.79%
-- Flow 1:
Average throughput: 343.69 Mbit/s
95th percentile per-packet one-way delay: 189.076 ms
Loss rate: 5.79%
```

Run 5: Report of PCC-Expr — Data Link

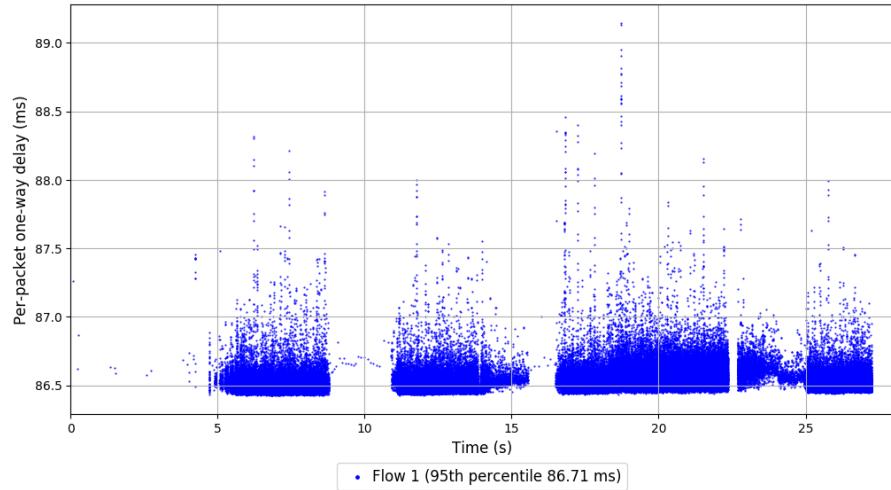
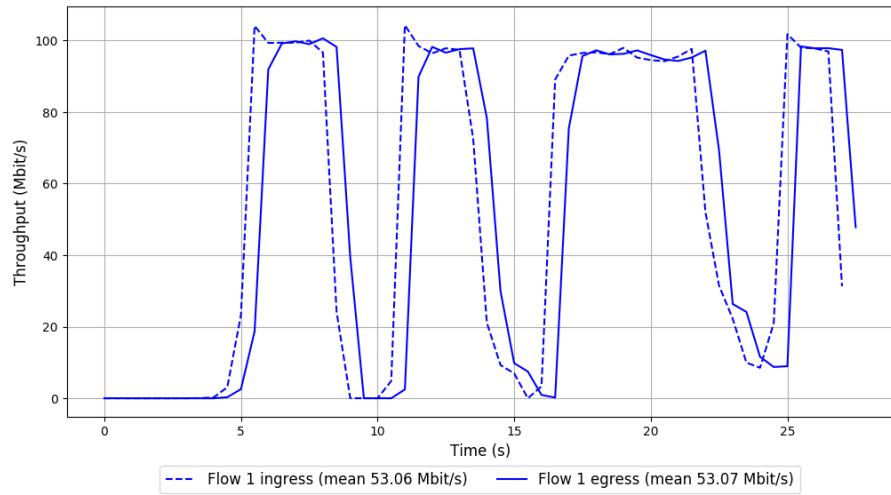


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-01-21 04:00:59
End at: 2019-01-21 04:01:29
Local clock offset: 18.208 ms
Remote clock offset: 17.965 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.07 Mbit/s
95th percentile per-packet one-way delay: 86.712 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.07 Mbit/s
95th percentile per-packet one-way delay: 86.712 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link

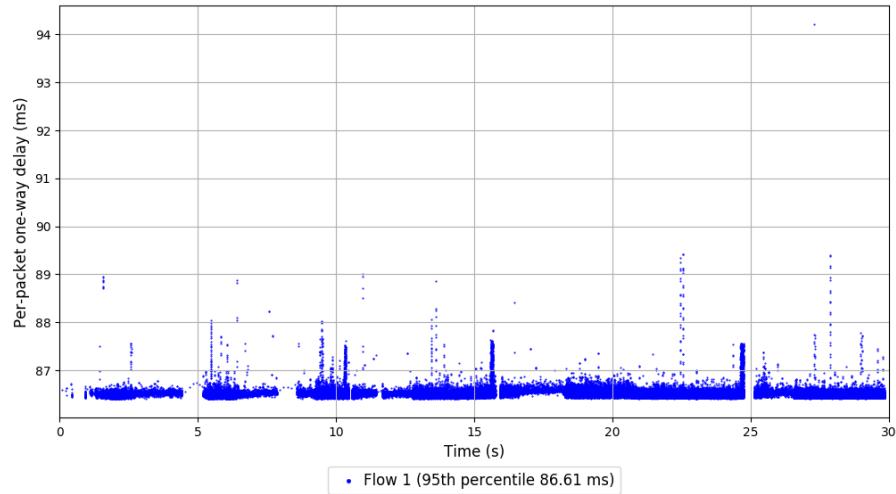
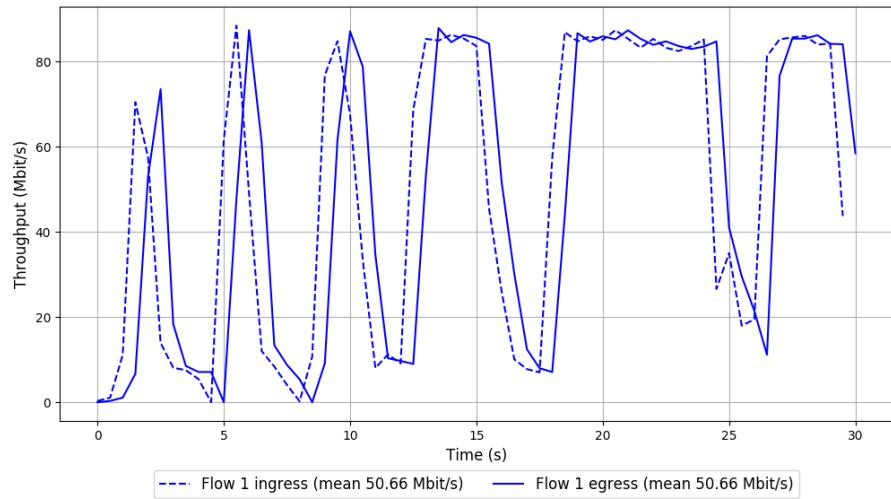


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-21 04:32:35
End at: 2019-01-21 04:33:05
Local clock offset: 31.751 ms
Remote clock offset: 30.724 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.66 Mbit/s
95th percentile per-packet one-way delay: 86.613 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.66 Mbit/s
95th percentile per-packet one-way delay: 86.613 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

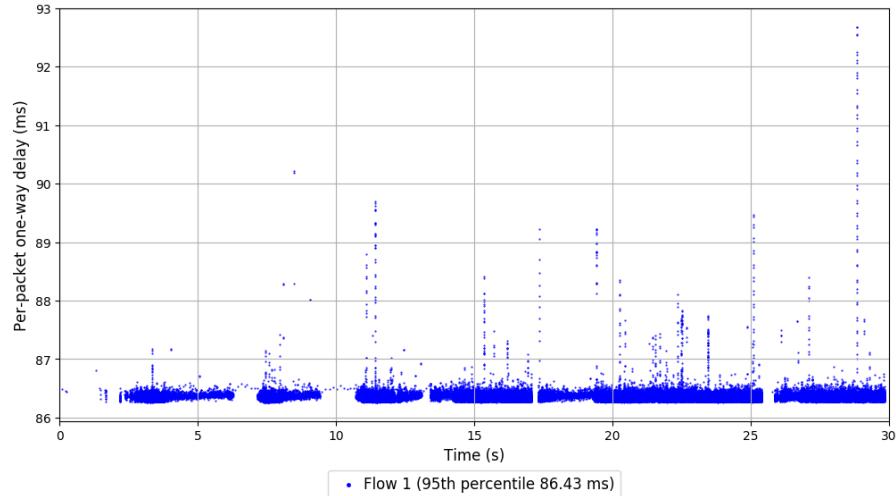
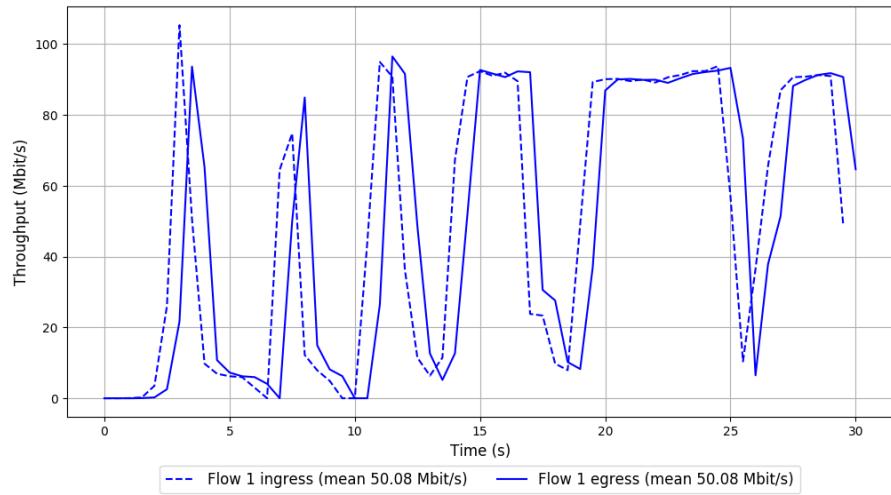


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-21 05:04:11
End at: 2019-01-21 05:04:41
Local clock offset: 16.342 ms
Remote clock offset: 15.886 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.08 Mbit/s
95th percentile per-packet one-way delay: 86.427 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.08 Mbit/s
95th percentile per-packet one-way delay: 86.427 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

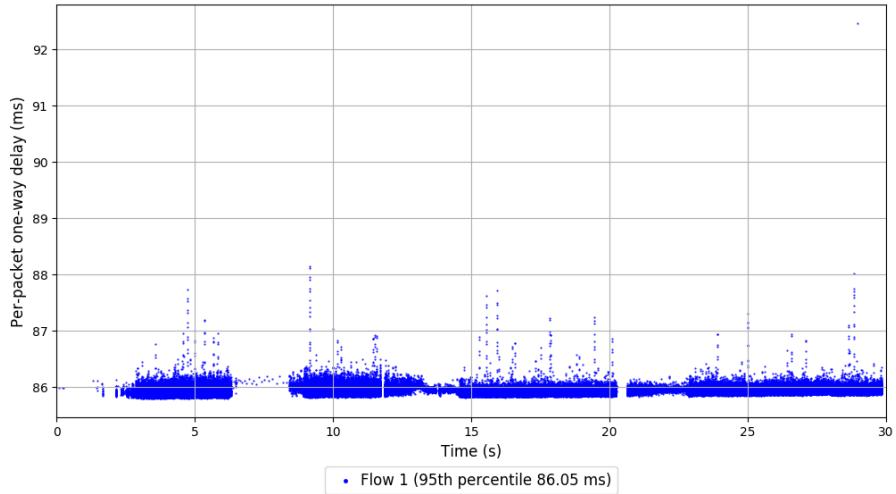
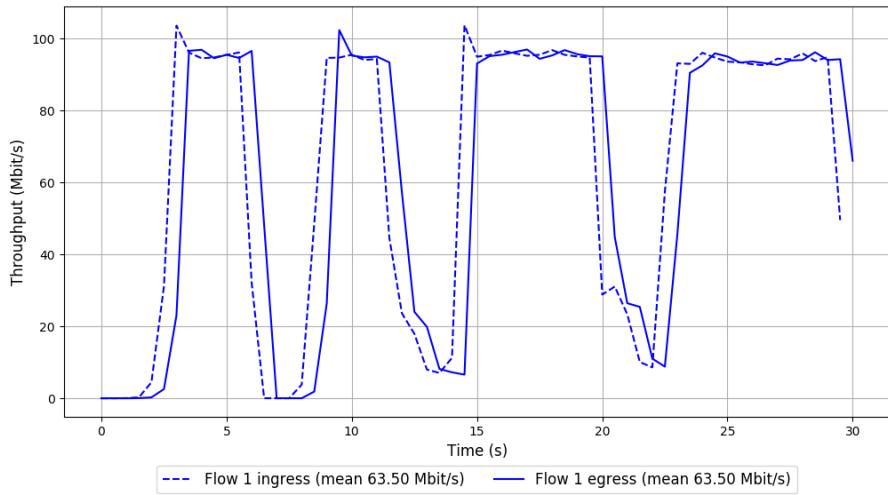


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-21 05:35:51
End at: 2019-01-21 05:36:21
Local clock offset: 7.984 ms
Remote clock offset: 4.611 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.50 Mbit/s
95th percentile per-packet one-way delay: 86.047 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.50 Mbit/s
95th percentile per-packet one-way delay: 86.047 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

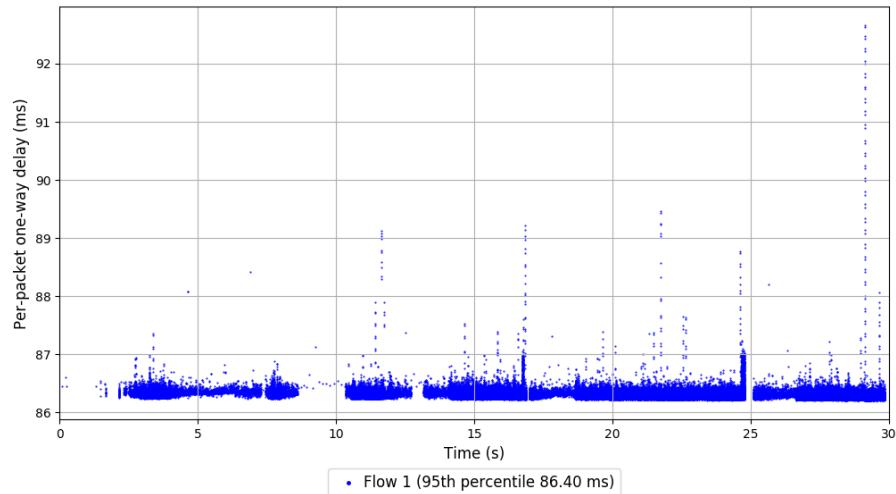
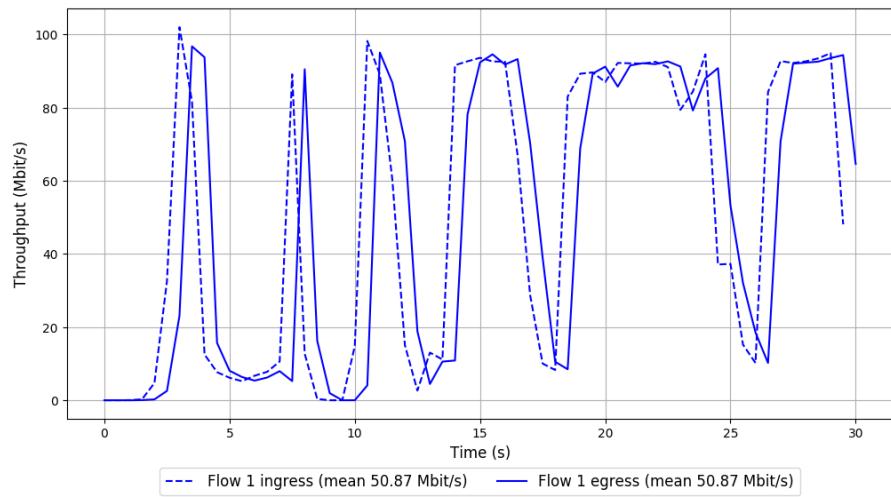


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-21 06:07:38
End at: 2019-01-21 06:08:08
Local clock offset: 2.185 ms
Remote clock offset: 1.645 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.87 Mbit/s
95th percentile per-packet one-way delay: 86.402 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.87 Mbit/s
95th percentile per-packet one-way delay: 86.402 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

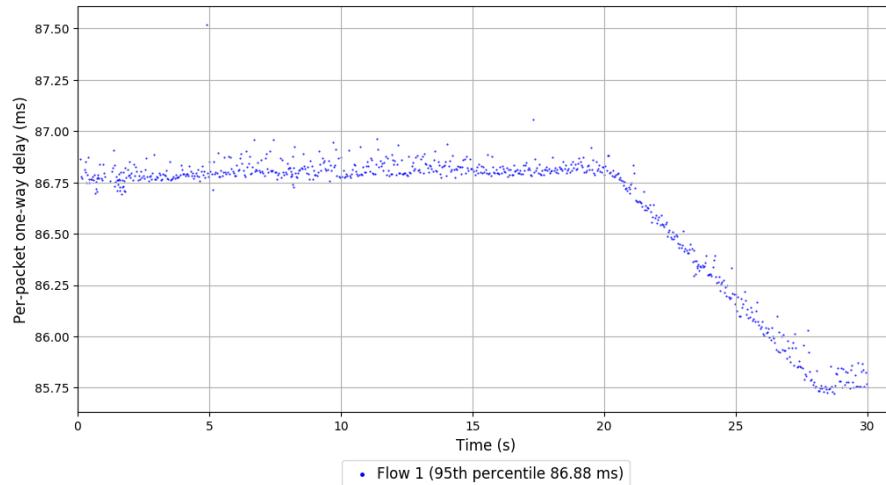
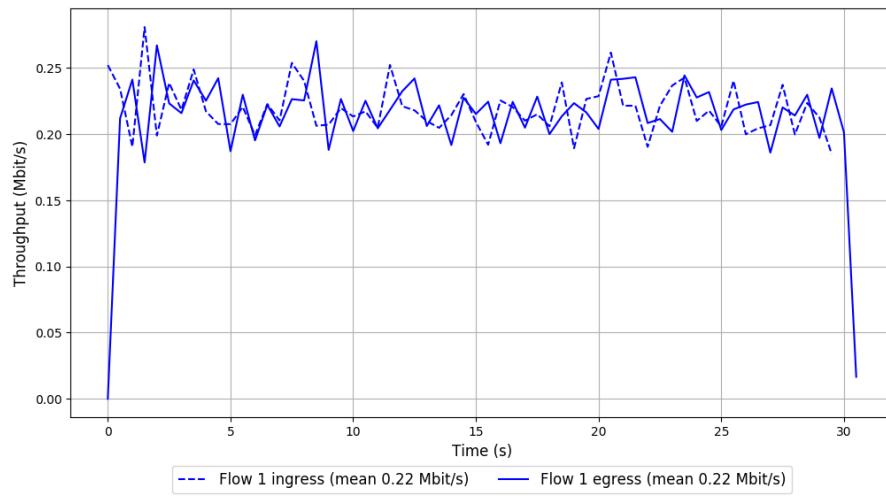


Run 1: Statistics of SCReAM

```
Start at: 2019-01-21 03:36:59
End at: 2019-01-21 03:37:29
Local clock offset: 5.818 ms
Remote clock offset: 5.878 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.875 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

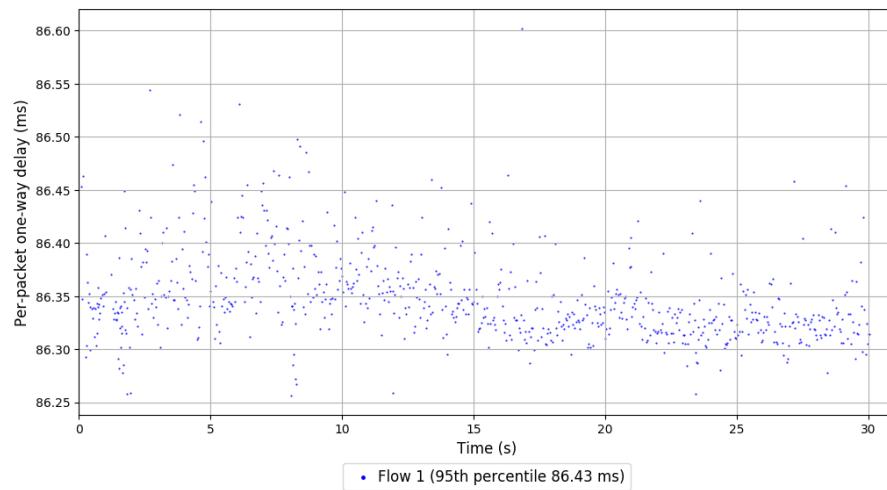
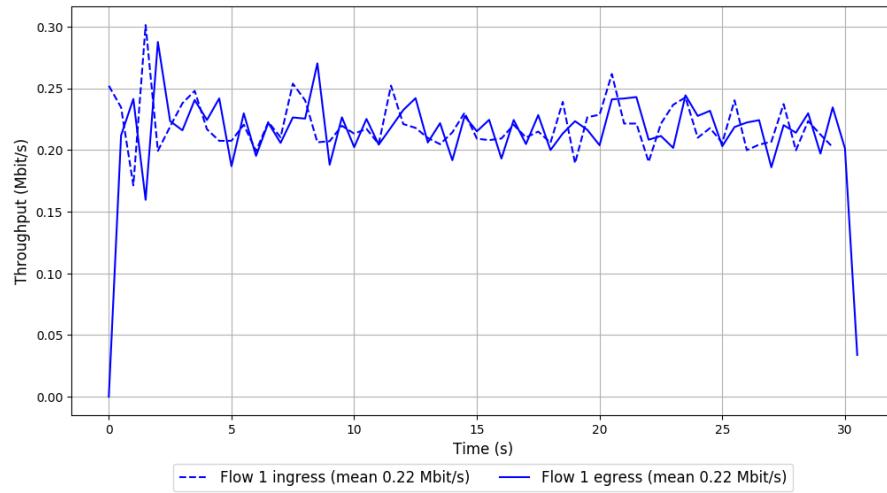


Run 2: Statistics of SCReAM

```
Start at: 2019-01-21 04:08:41
End at: 2019-01-21 04:09:11
Local clock offset: 25.615 ms
Remote clock offset: 25.114 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.429 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

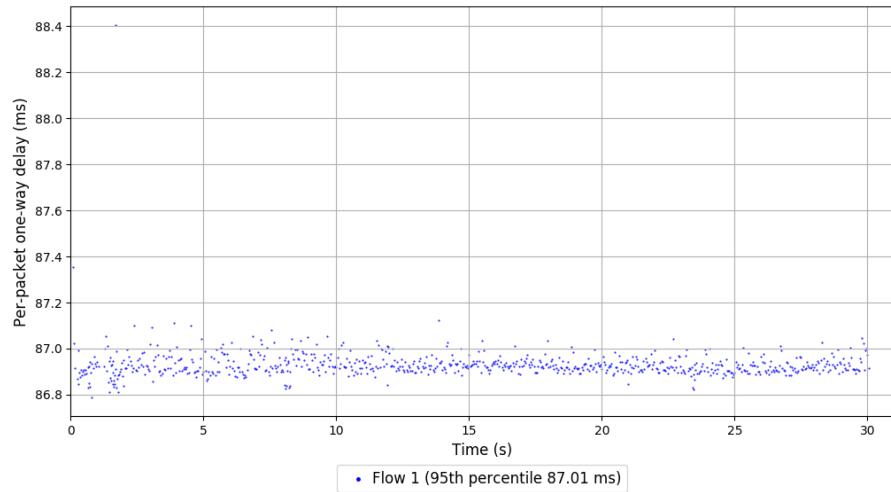
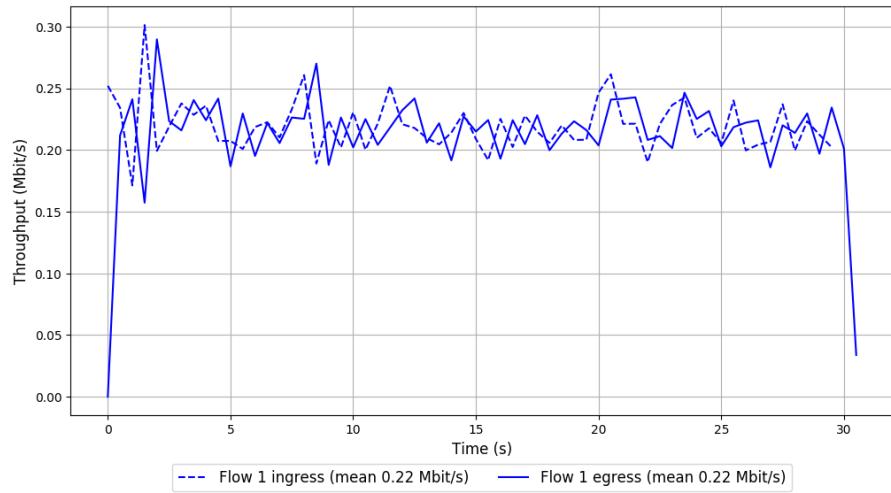


Run 3: Statistics of SCReAM

```
Start at: 2019-01-21 04:40:16
End at: 2019-01-21 04:40:46
Local clock offset: 39.264 ms
Remote clock offset: 38.973 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.009 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.009 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

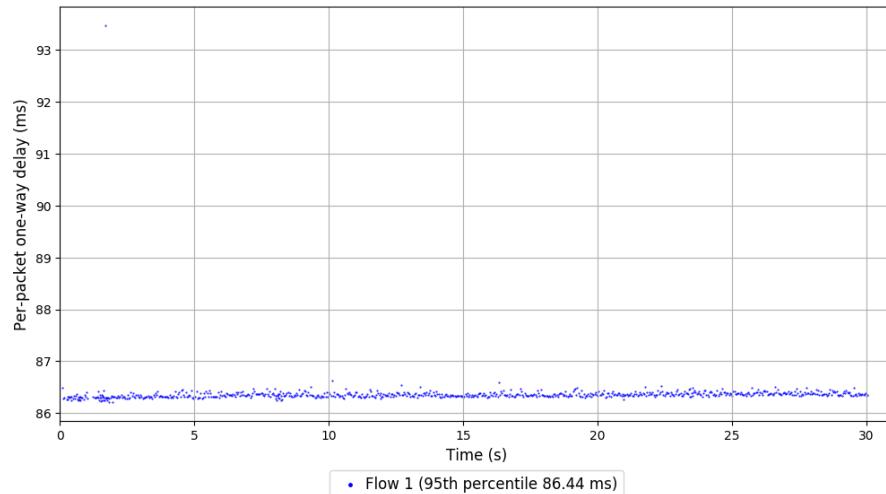
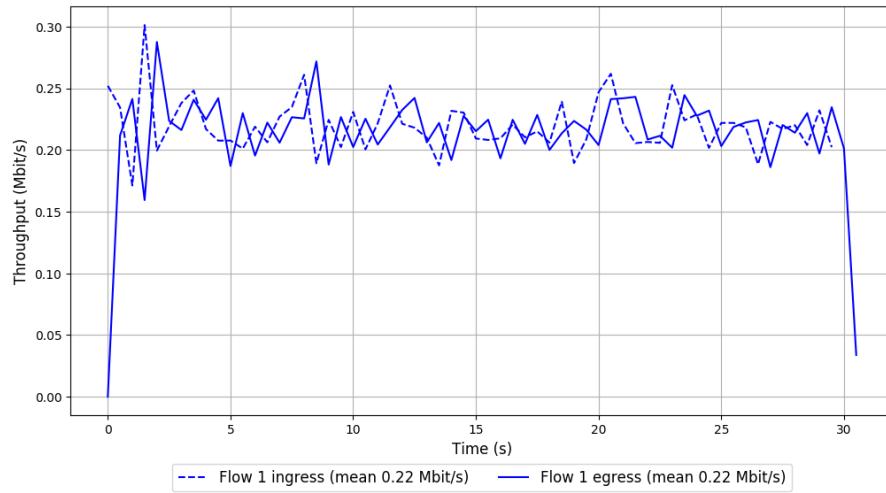


Run 4: Statistics of SCReAM

```
Start at: 2019-01-21 05:11:54
End at: 2019-01-21 05:12:24
Local clock offset: 18.892 ms
Remote clock offset: 18.556 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.443 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.443 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

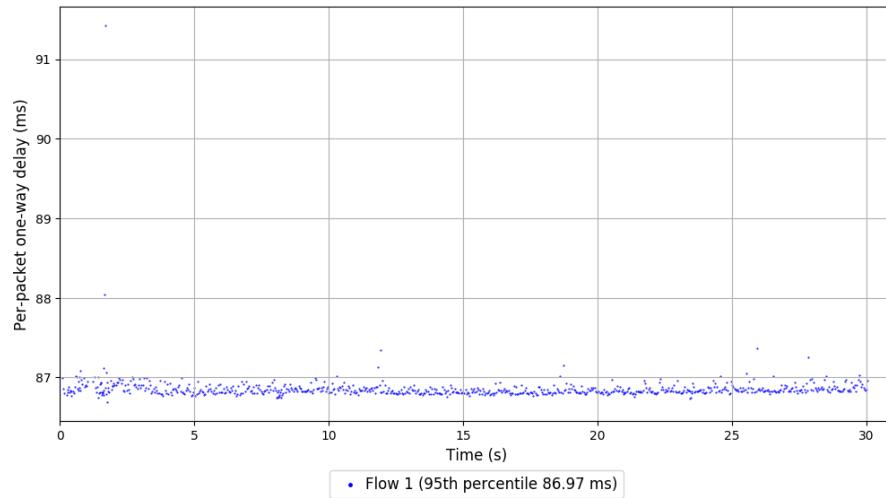
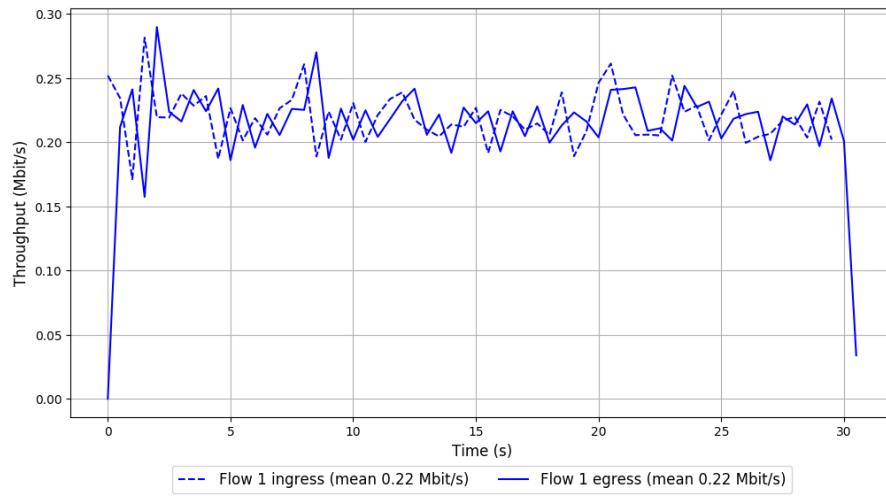


Run 5: Statistics of SCReAM

```
Start at: 2019-01-21 05:43:22
End at: 2019-01-21 05:43:52
Local clock offset: 8.561 ms
Remote clock offset: 4.265 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.970 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.970 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

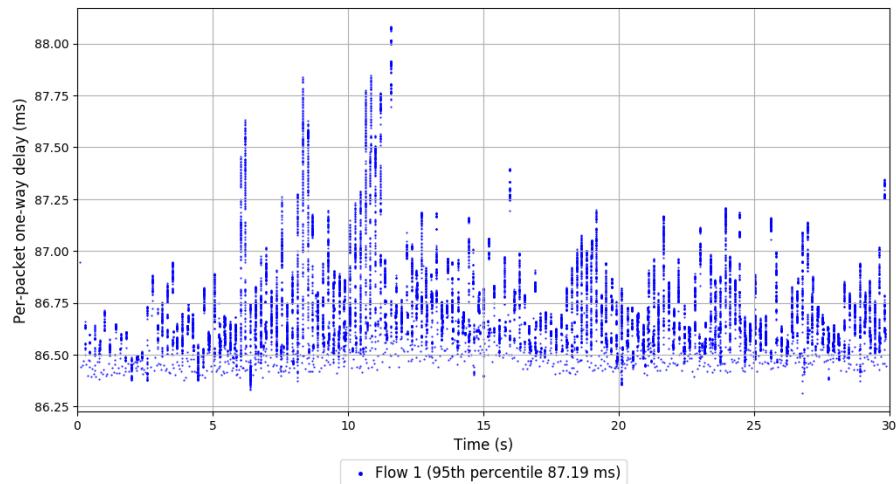
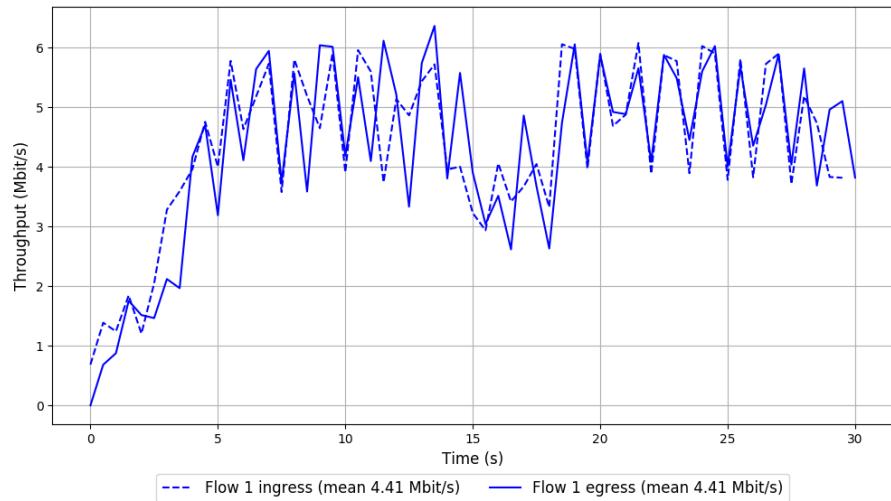


Run 1: Statistics of Sprout

```
Start at: 2019-01-21 03:45:51
End at: 2019-01-21 03:46:21
Local clock offset: 10.266 ms
Remote clock offset: 10.239 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 87.187 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 87.187 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

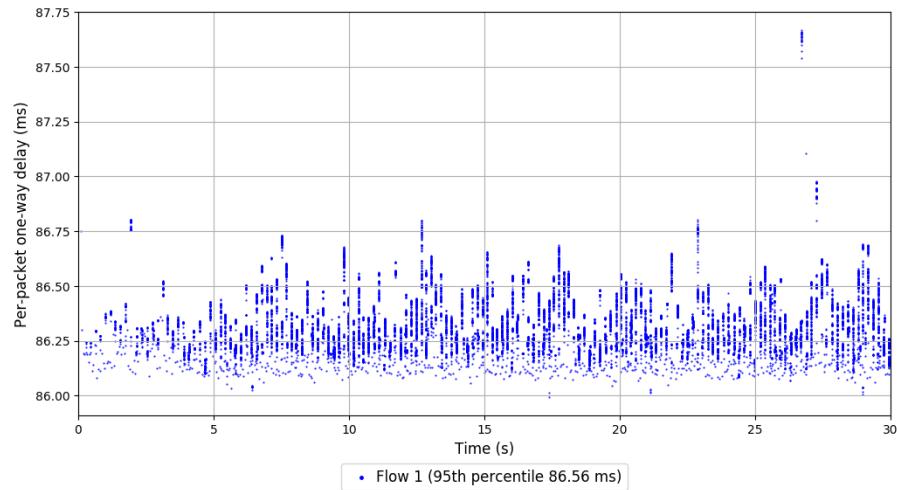
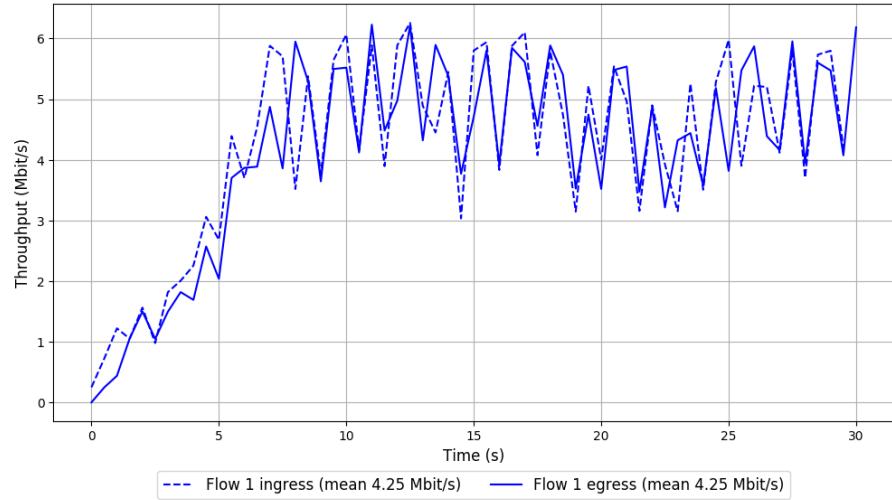


Run 2: Statistics of Sprout

```
Start at: 2019-01-21 04:17:34
End at: 2019-01-21 04:18:04
Local clock offset: 20.505 ms
Remote clock offset: 20.066 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 86.562 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 86.562 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

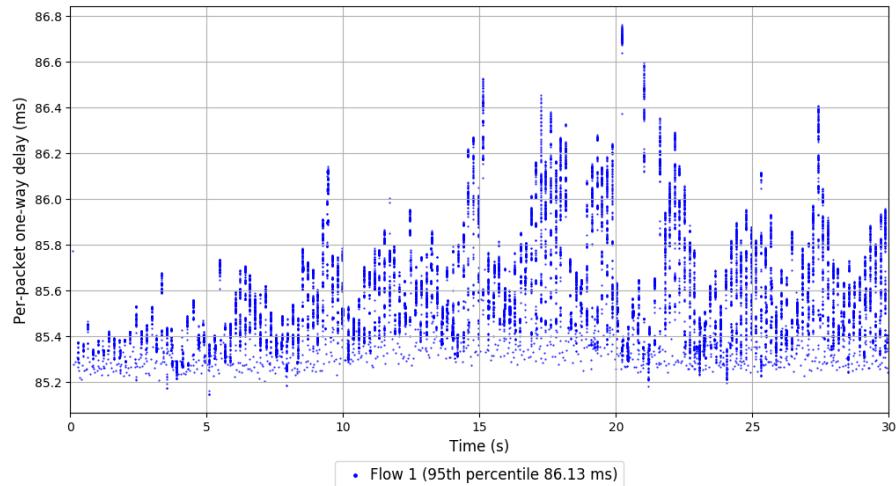
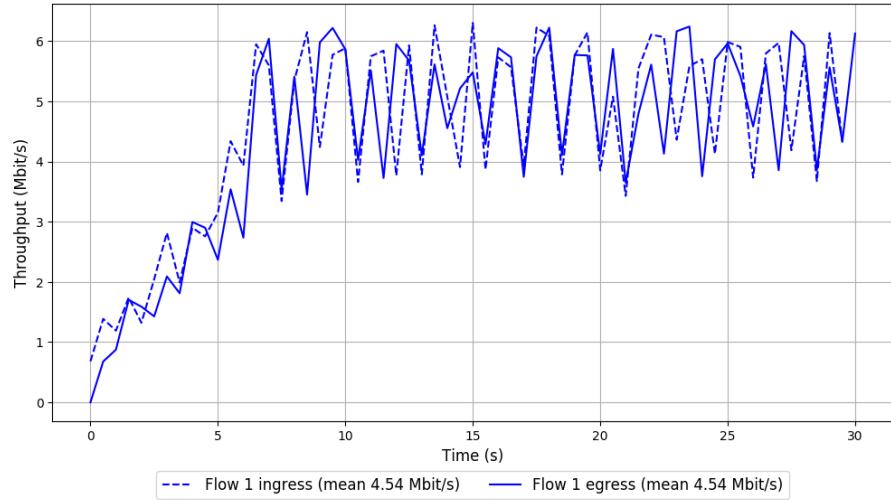


Run 3: Statistics of Sprout

```
Start at: 2019-01-21 04:49:07
End at: 2019-01-21 04:49:37
Local clock offset: 22.233 ms
Remote clock offset: 21.116 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 86.127 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 86.127 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

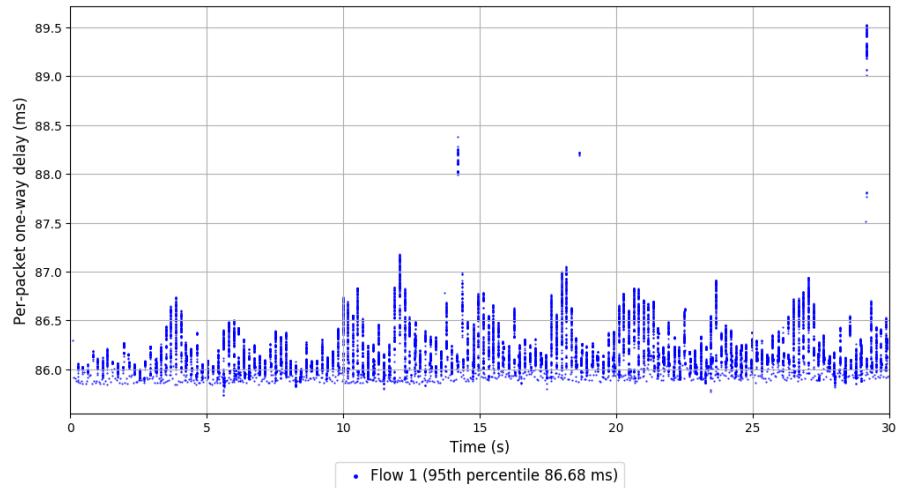
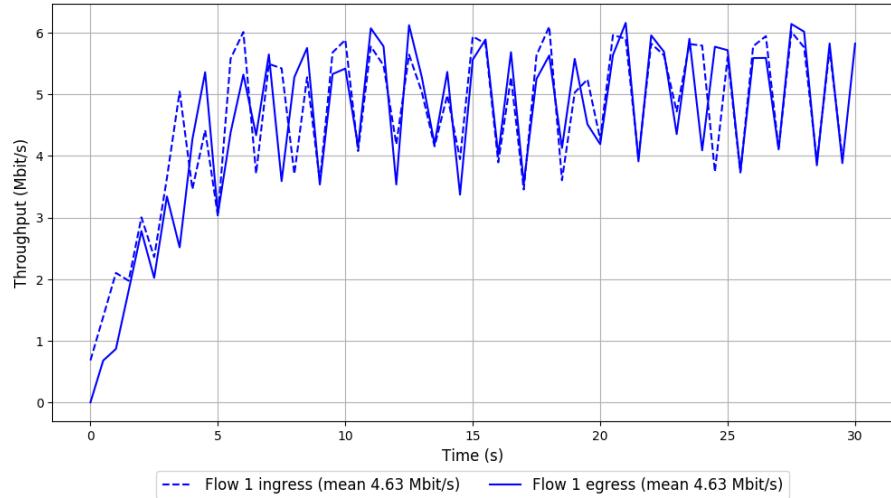


Run 4: Statistics of Sprout

```
Start at: 2019-01-21 05:20:45
End at: 2019-01-21 05:21:15
Local clock offset: 13.567 ms
Remote clock offset: 12.059 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 86.683 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 86.683 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

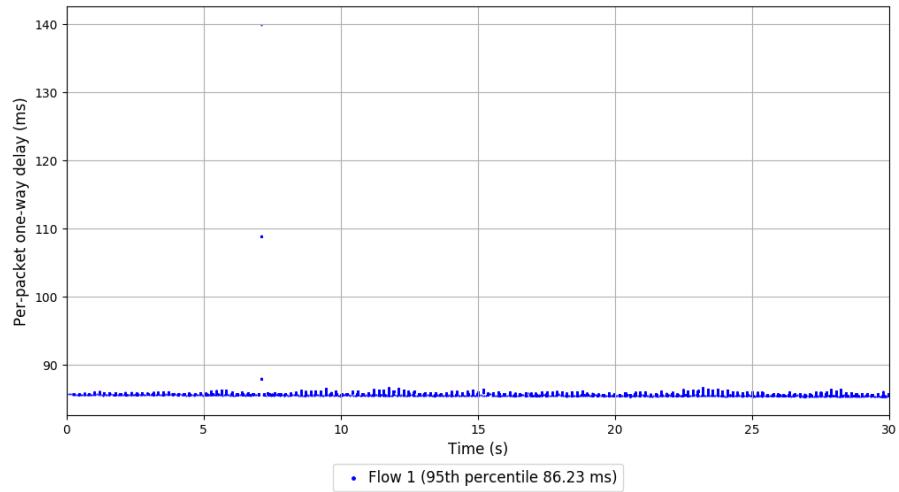
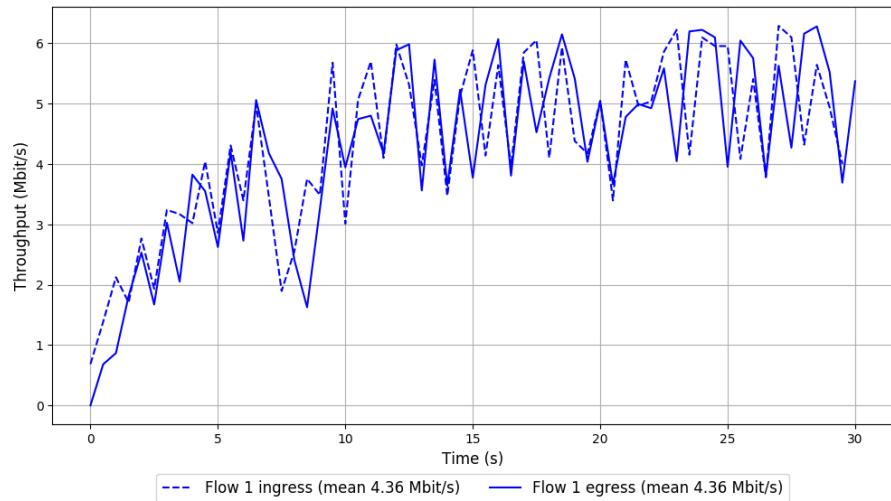


Run 5: Statistics of Sprout

```
Start at: 2019-01-21 05:52:14
End at: 2019-01-21 05:52:44
Local clock offset: 7.907 ms
Remote clock offset: 3.639 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 86.228 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 86.228 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

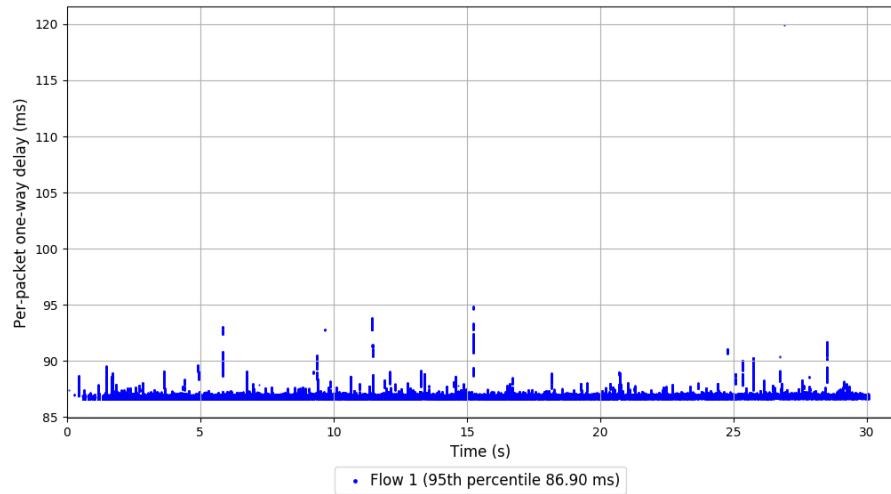
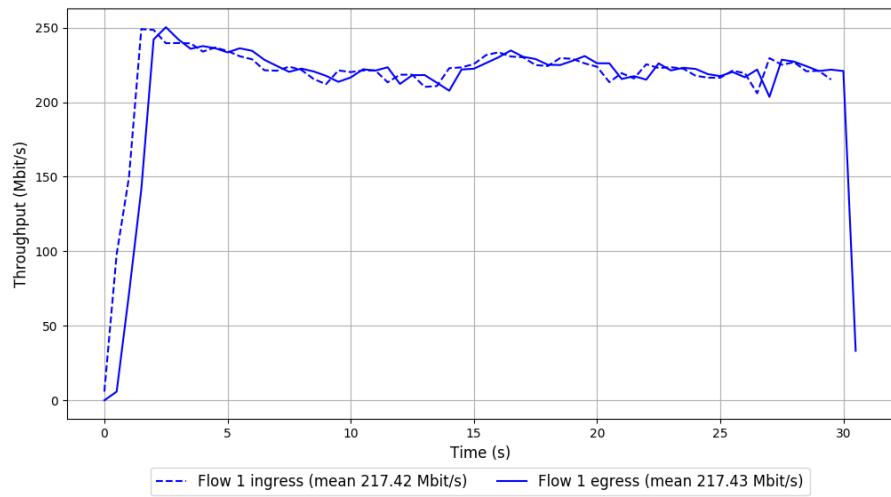


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-21 04:05:29
End at: 2019-01-21 04:05:59
Local clock offset: 24.283 ms
Remote clock offset: 24.252 ms

# Below is generated by plot.py at 2019-01-21 08:33:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.43 Mbit/s
95th percentile per-packet one-way delay: 86.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.43 Mbit/s
95th percentile per-packet one-way delay: 86.897 ms
Loss rate: 0.00%
```

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

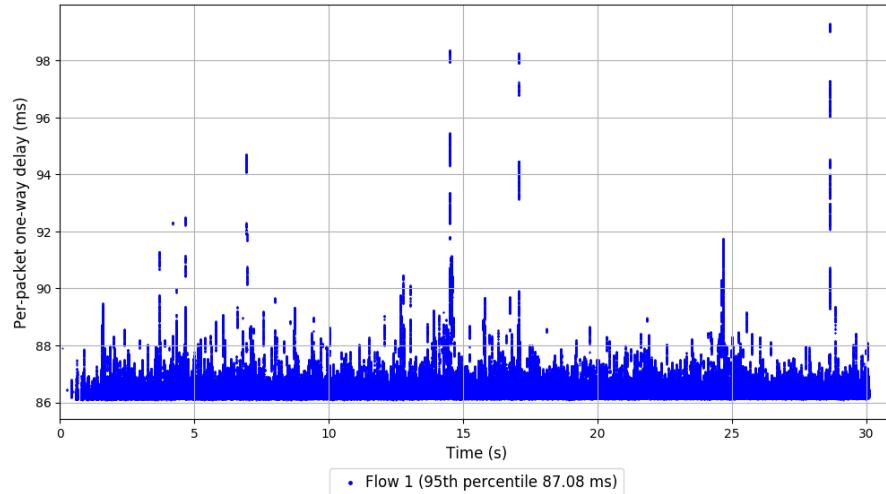
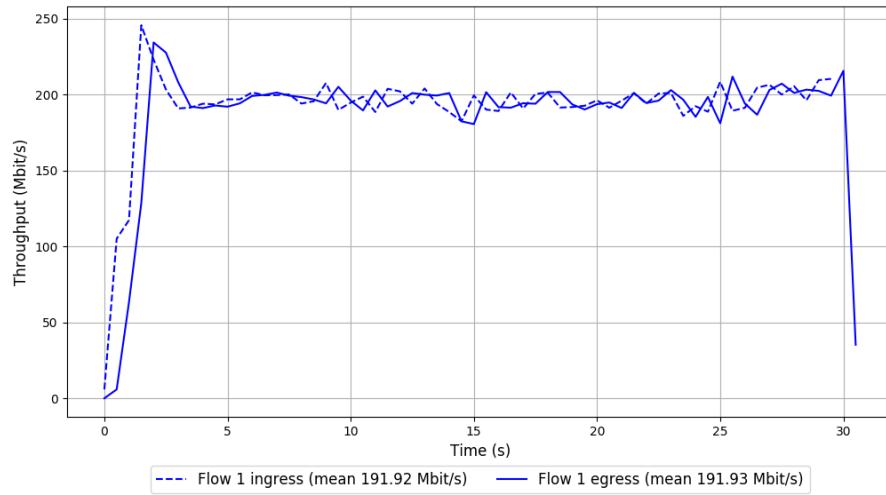


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-21 04:37:07
End at: 2019-01-21 04:37:37
Local clock offset: 36.34 ms
Remote clock offset: 35.446 ms

# Below is generated by plot.py at 2019-01-21 08:33:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.93 Mbit/s
95th percentile per-packet one-way delay: 87.079 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 191.93 Mbit/s
95th percentile per-packet one-way delay: 87.079 ms
Loss rate: 0.00%
```

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

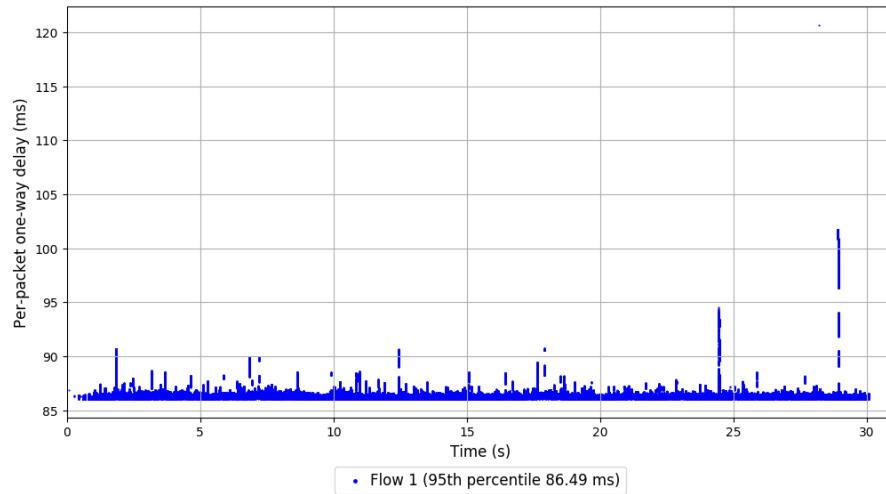
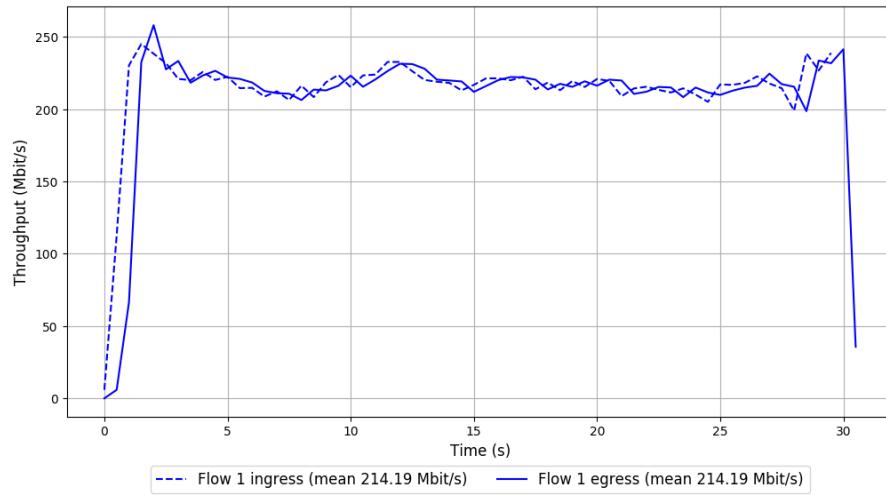


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-21 05:08:39
End at: 2019-01-21 05:09:09
Local clock offset: 17.508 ms
Remote clock offset: 17.239 ms

# Below is generated by plot.py at 2019-01-21 08:34:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.19 Mbit/s
95th percentile per-packet one-way delay: 86.489 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.19 Mbit/s
95th percentile per-packet one-way delay: 86.489 ms
Loss rate: 0.00%
```

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

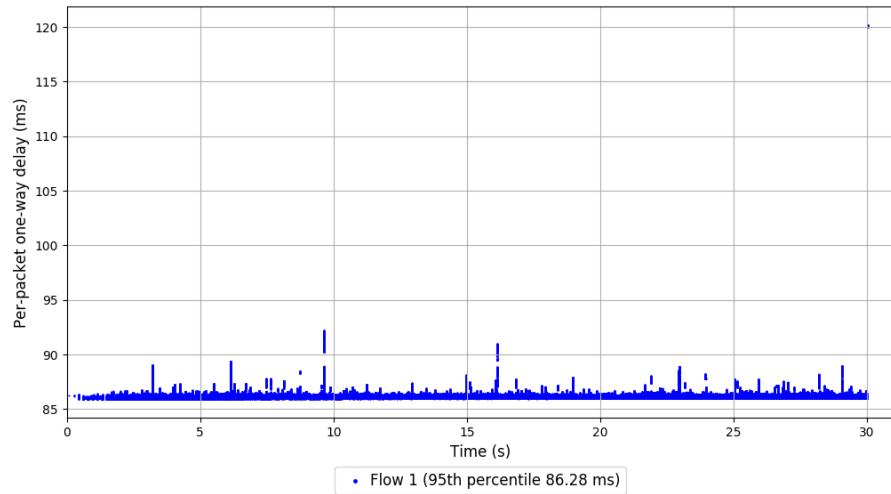
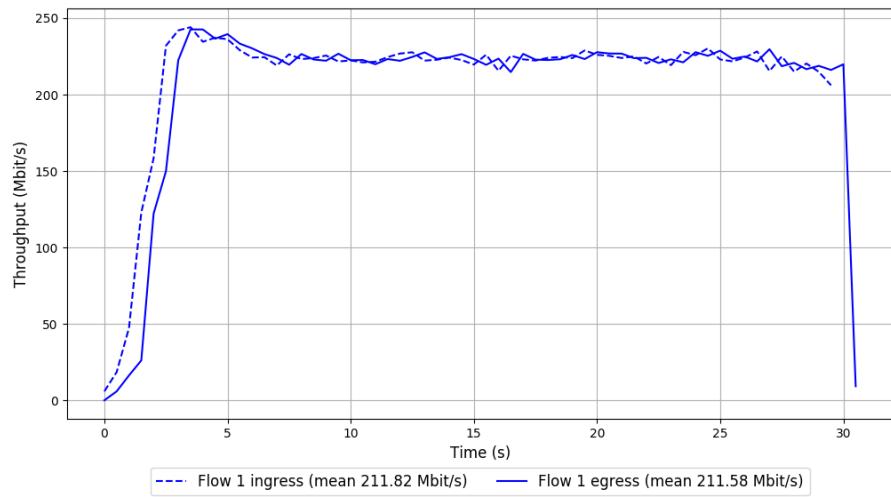


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-21 05:40:12
End at: 2019-01-21 05:40:43
Local clock offset: 8.033 ms
Remote clock offset: 4.208 ms

# Below is generated by plot.py at 2019-01-21 08:34:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.58 Mbit/s
95th percentile per-packet one-way delay: 86.279 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 211.58 Mbit/s
95th percentile per-packet one-way delay: 86.279 ms
Loss rate: 0.11%
```

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

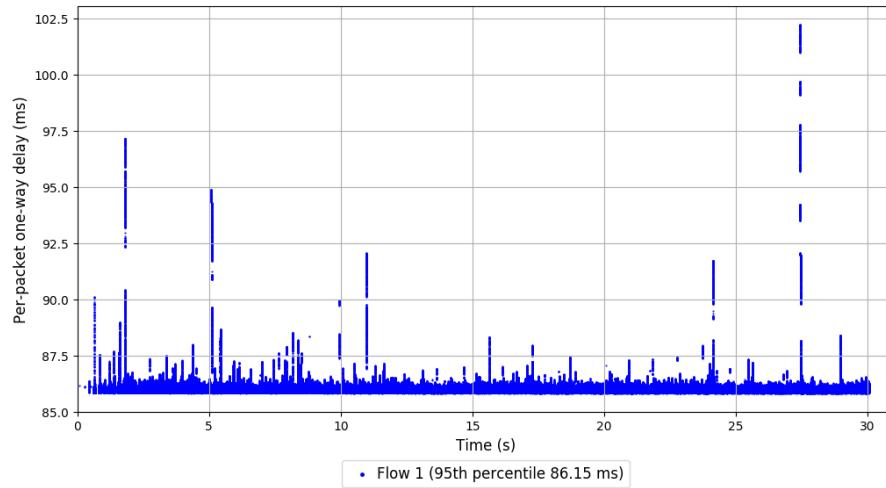
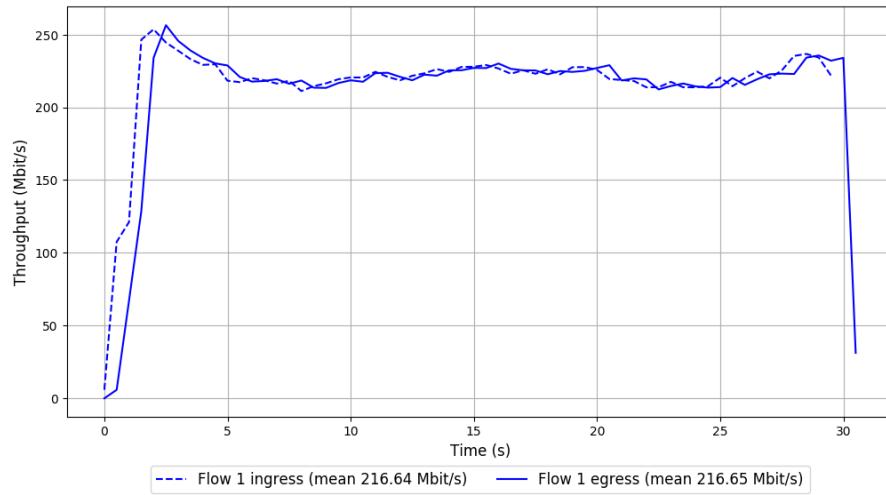


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-21 06:12:29
End at: 2019-01-21 06:12:59
Local clock offset: 1.913 ms
Remote clock offset: 1.607 ms

# Below is generated by plot.py at 2019-01-21 08:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.65 Mbit/s
95th percentile per-packet one-way delay: 86.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.65 Mbit/s
95th percentile per-packet one-way delay: 86.147 ms
Loss rate: 0.00%
```

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

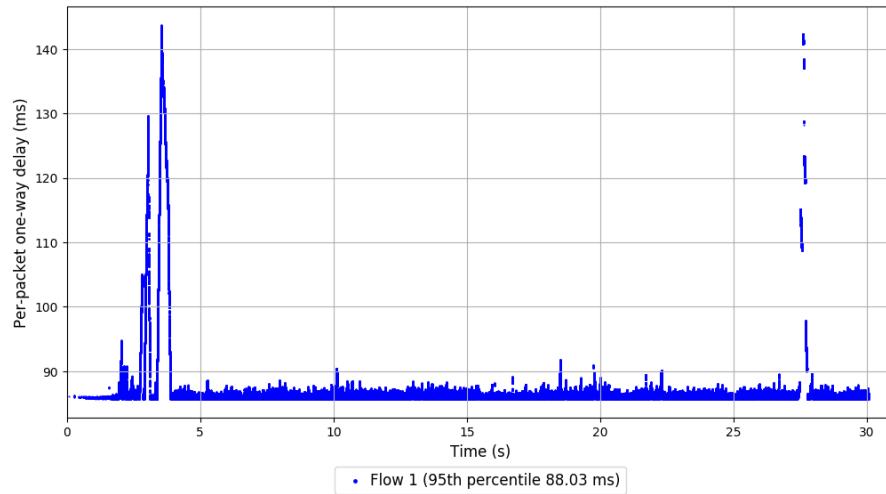
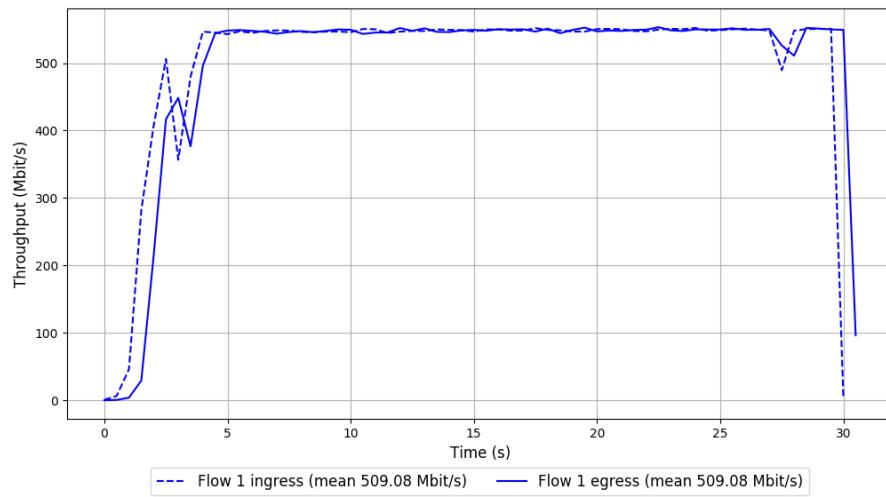


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-21 03:51:12
End at: 2019-01-21 03:51:42
Local clock offset: 16.742 ms
Remote clock offset: 16.445 ms

# Below is generated by plot.py at 2019-01-21 08:43:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 509.08 Mbit/s
95th percentile per-packet one-way delay: 88.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 509.08 Mbit/s
95th percentile per-packet one-way delay: 88.032 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

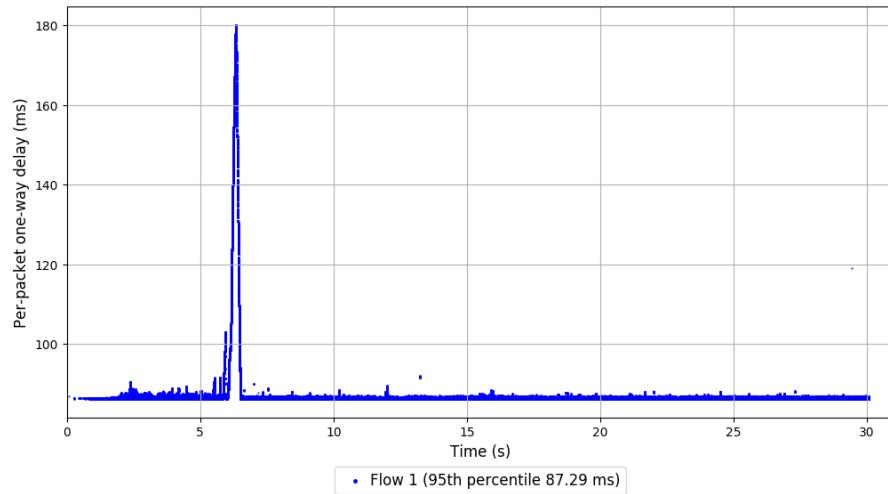
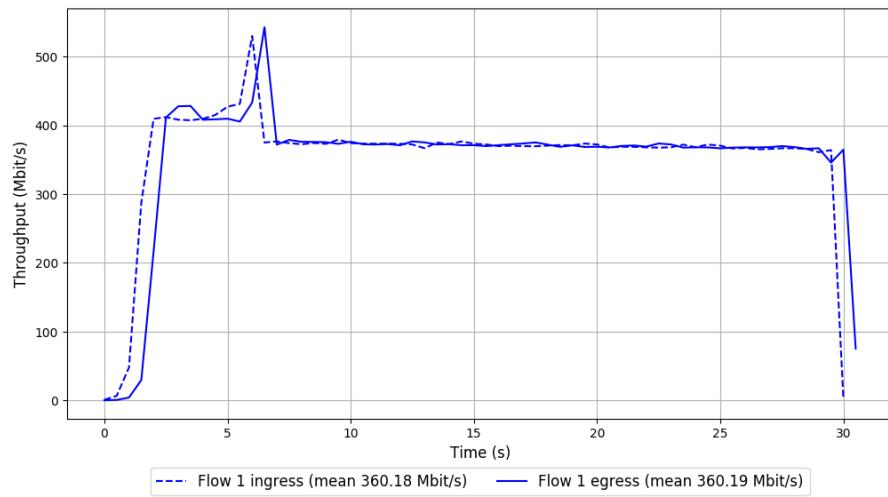


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-21 04:22:45
End at: 2019-01-21 04:23:15
Local clock offset: 22.638 ms
Remote clock offset: 22.452 ms

# Below is generated by plot.py at 2019-01-21 08:43:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 360.19 Mbit/s
95th percentile per-packet one-way delay: 87.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 360.19 Mbit/s
95th percentile per-packet one-way delay: 87.288 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

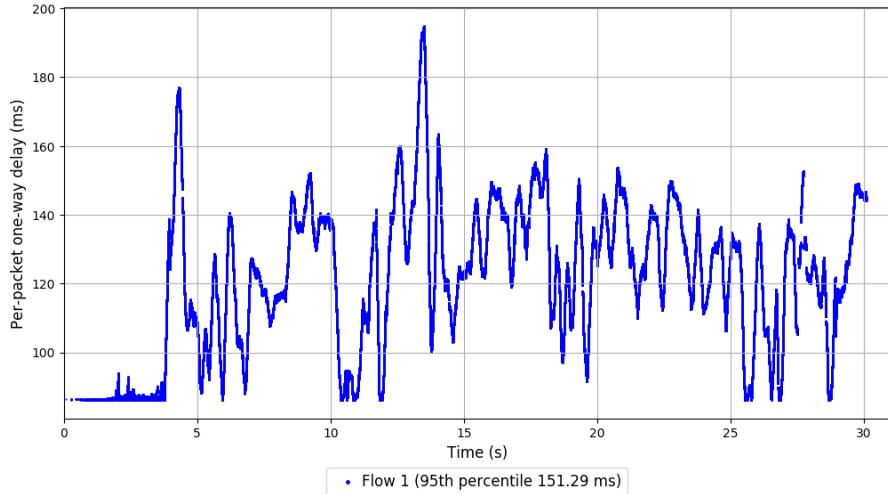
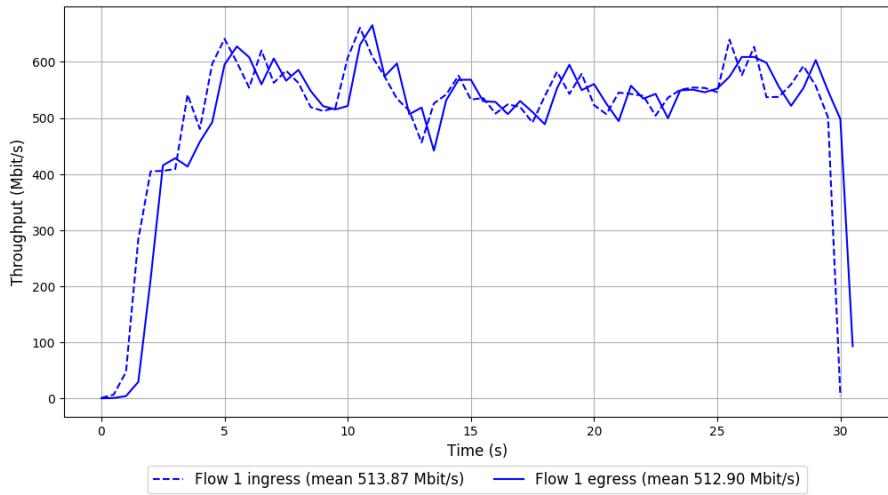


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-21 04:54:16
End at: 2019-01-21 04:54:46
Local clock offset: 16.674 ms
Remote clock offset: 16.516 ms

# Below is generated by plot.py at 2019-01-21 08:44:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 512.90 Mbit/s
95th percentile per-packet one-way delay: 151.288 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 512.90 Mbit/s
95th percentile per-packet one-way delay: 151.288 ms
Loss rate: 0.18%
```

Run 3: Report of TCP Vegas — Data Link

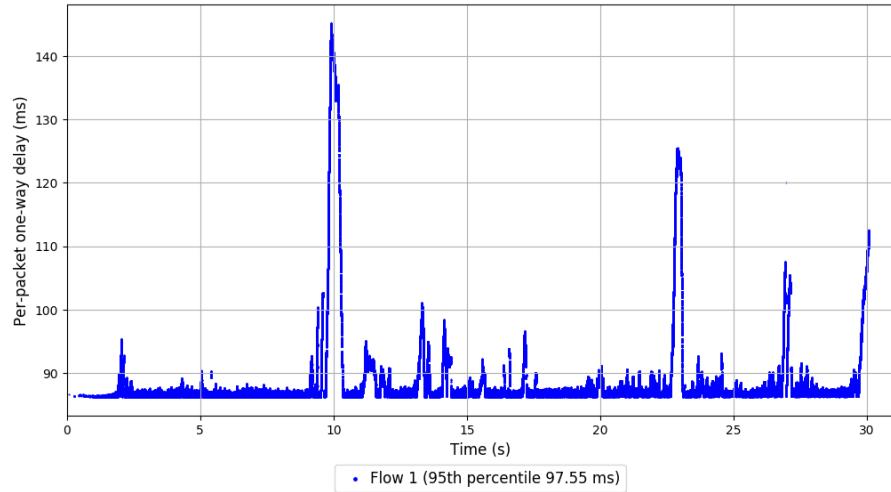
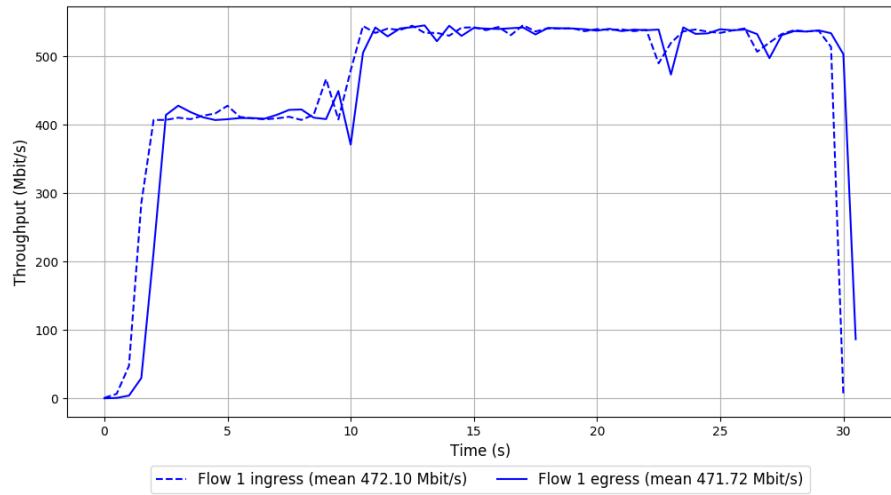


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-21 05:26:01
End at: 2019-01-21 05:26:31
Local clock offset: 8.834 ms
Remote clock offset: 7.406 ms

# Below is generated by plot.py at 2019-01-21 08:45:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 471.72 Mbit/s
95th percentile per-packet one-way delay: 97.551 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 471.72 Mbit/s
95th percentile per-packet one-way delay: 97.551 ms
Loss rate: 0.08%
```

Run 4: Report of TCP Vegas — Data Link

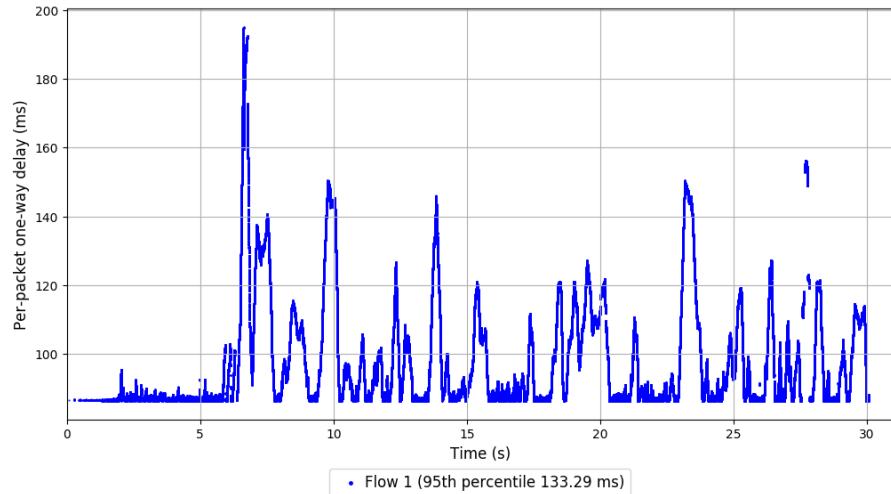
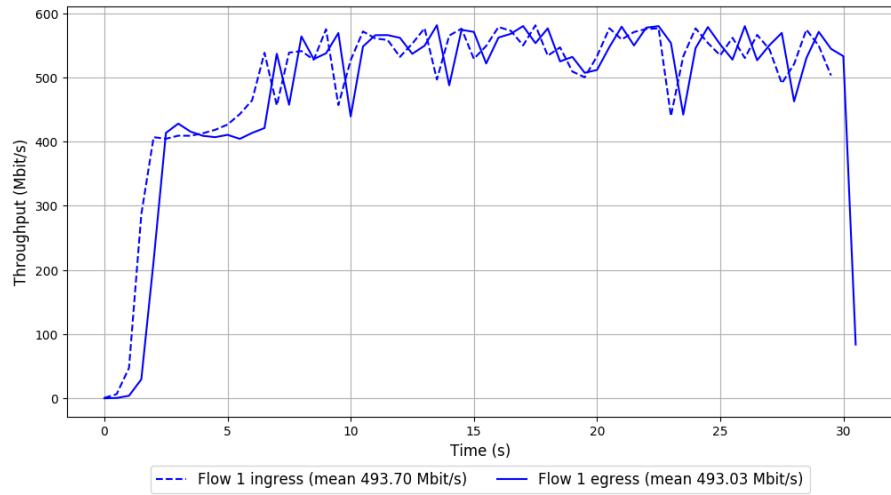


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-21 05:57:31
End at: 2019-01-21 05:58:01
Local clock offset: 4.068 ms
Remote clock offset: 2.469 ms

# Below is generated by plot.py at 2019-01-21 08:46:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 493.03 Mbit/s
95th percentile per-packet one-way delay: 133.288 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 493.03 Mbit/s
95th percentile per-packet one-way delay: 133.288 ms
Loss rate: 0.13%
```

Run 5: Report of TCP Vegas — Data Link

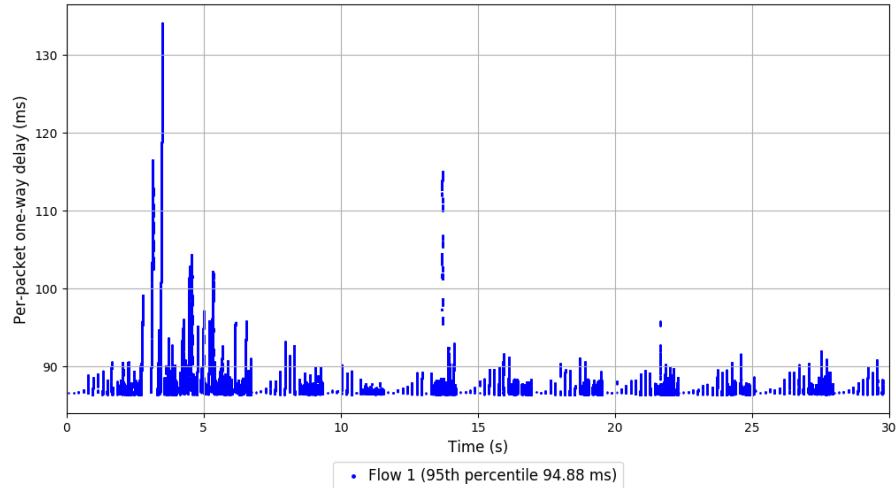
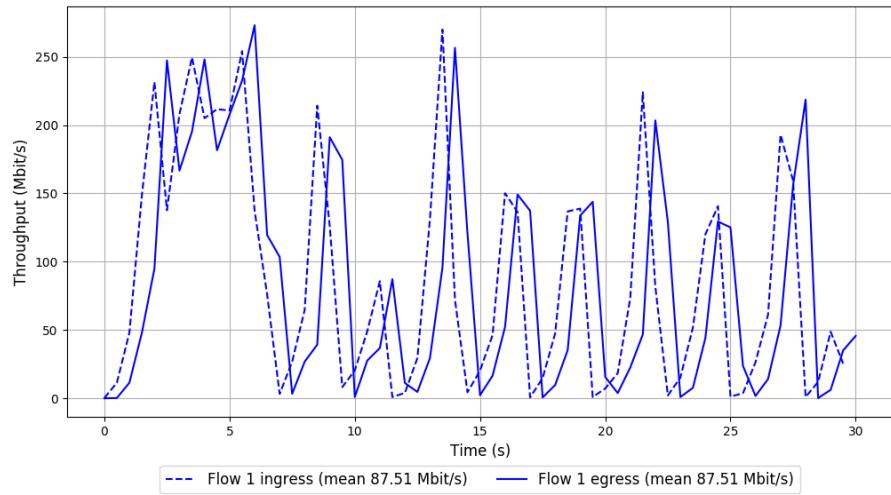


Run 1: Statistics of Verus

```
Start at: 2019-01-21 03:59:41
End at: 2019-01-21 04:00:11
Local clock offset: 16.932 ms
Remote clock offset: 16.566 ms

# Below is generated by plot.py at 2019-01-21 08:46:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 94.880 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 94.880 ms
Loss rate: 0.00%
```

Run 1: Report of Verus — Data Link

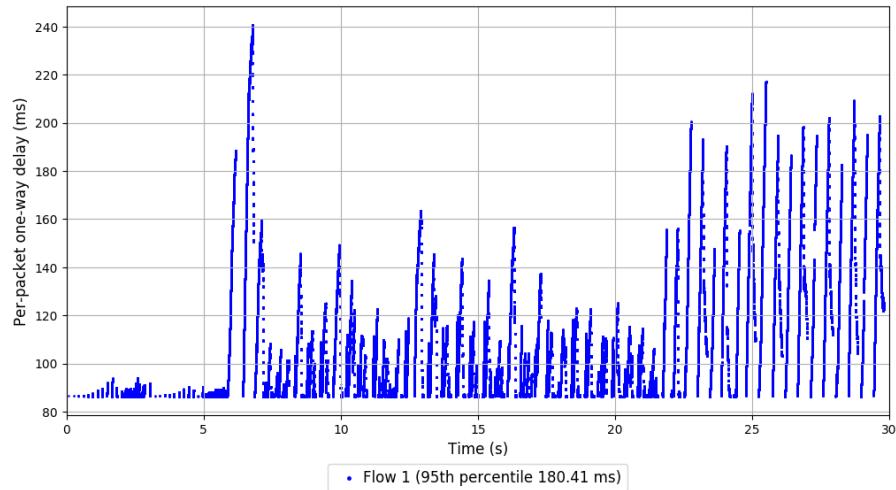
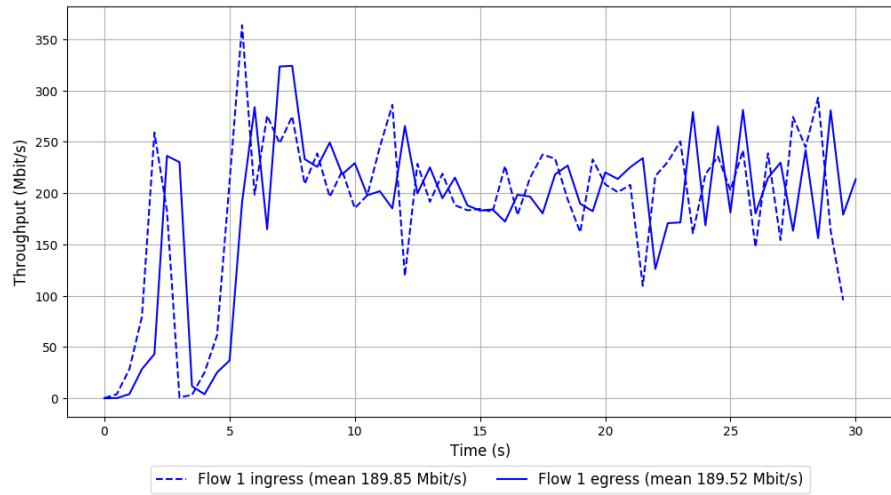


Run 2: Statistics of Verus

```
Start at: 2019-01-21 04:31:08
End at: 2019-01-21 04:31:38
Local clock offset: 29.894 ms
Remote clock offset: 29.455 ms

# Below is generated by plot.py at 2019-01-21 08:46:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.52 Mbit/s
95th percentile per-packet one-way delay: 180.413 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 189.52 Mbit/s
95th percentile per-packet one-way delay: 180.413 ms
Loss rate: 0.04%
```

Run 2: Report of Verus — Data Link

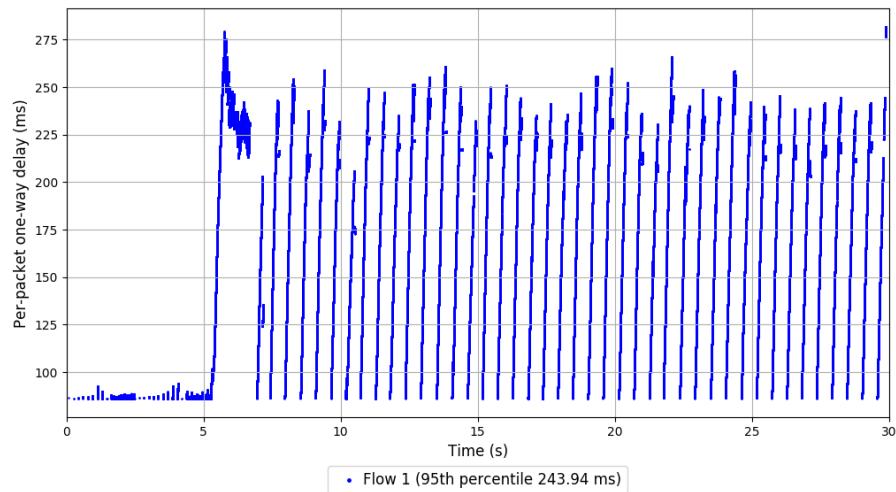
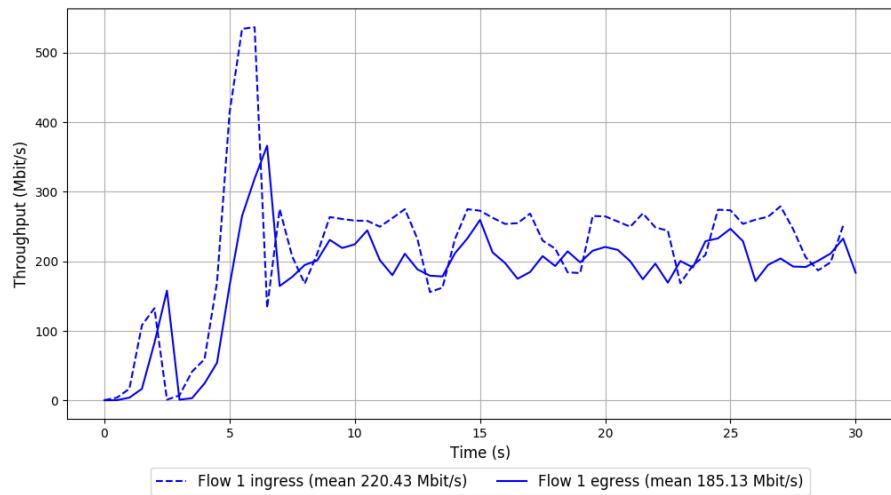


Run 3: Statistics of Verus

```
Start at: 2019-01-21 05:02:42
End at: 2019-01-21 05:03:13
Local clock offset: 15.992 ms
Remote clock offset: 15.563 ms

# Below is generated by plot.py at 2019-01-21 08:46:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.13 Mbit/s
95th percentile per-packet one-way delay: 243.940 ms
Loss rate: 15.65%
-- Flow 1:
Average throughput: 185.13 Mbit/s
95th percentile per-packet one-way delay: 243.940 ms
Loss rate: 15.65%
```

Run 3: Report of Verus — Data Link

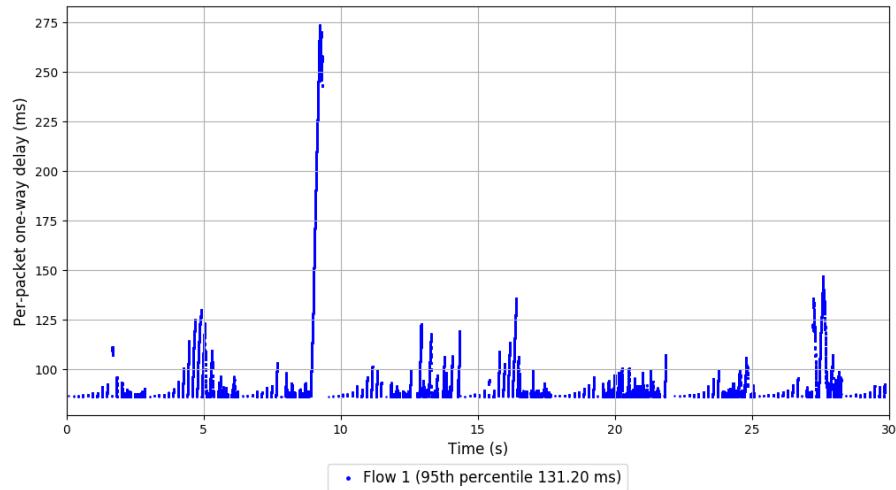
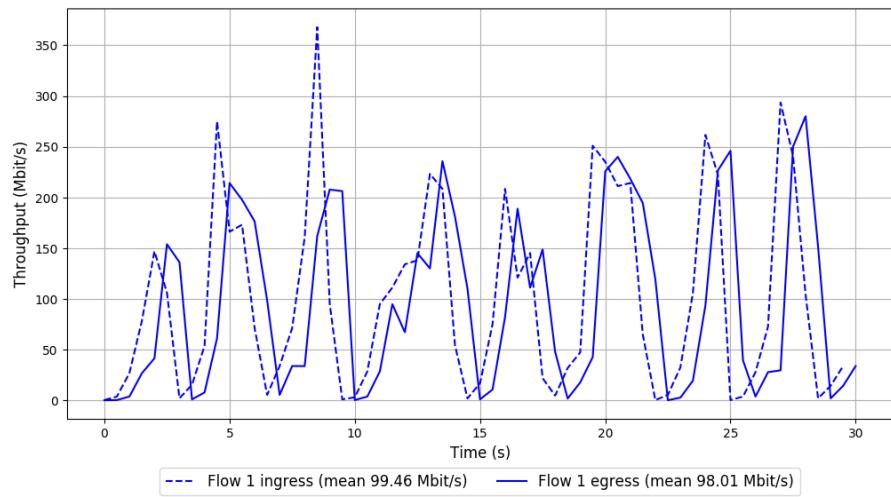


Run 4: Statistics of Verus

```
Start at: 2019-01-21 05:34:31
End at: 2019-01-21 05:35:01
Local clock offset: 7.597 ms
Remote clock offset: 4.724 ms

# Below is generated by plot.py at 2019-01-21 08:46:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 98.01 Mbit/s
95th percentile per-packet one-way delay: 131.203 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 98.01 Mbit/s
95th percentile per-packet one-way delay: 131.203 ms
Loss rate: 1.44%
```

Run 4: Report of Verus — Data Link

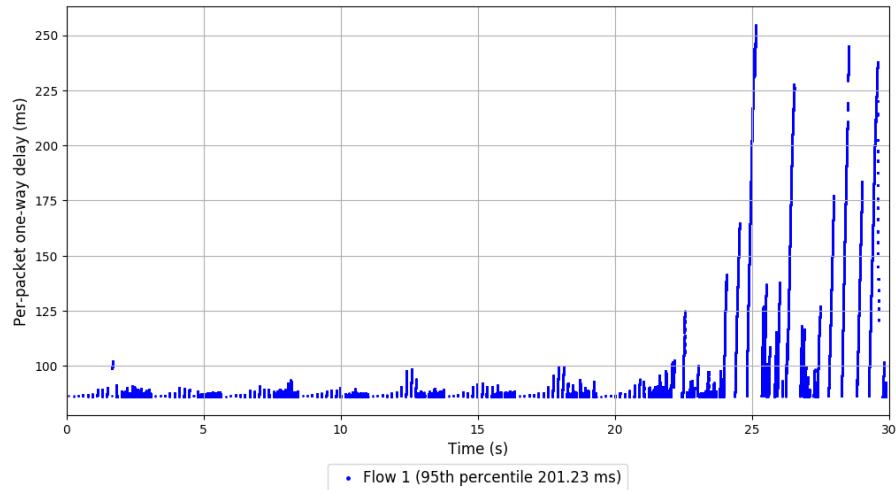
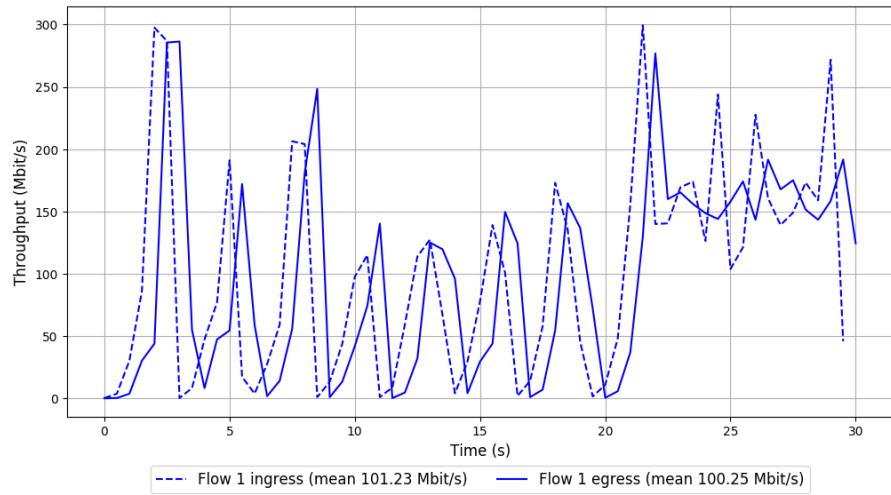


Run 5: Statistics of Verus

```
Start at: 2019-01-21 06:06:16
End at: 2019-01-21 06:06:46
Local clock offset: 2.323 ms
Remote clock offset: 1.828 ms

# Below is generated by plot.py at 2019-01-21 08:46:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 100.25 Mbit/s
95th percentile per-packet one-way delay: 201.232 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 100.25 Mbit/s
95th percentile per-packet one-way delay: 201.232 ms
Loss rate: 0.96%
```

Run 5: Report of Verus — Data Link

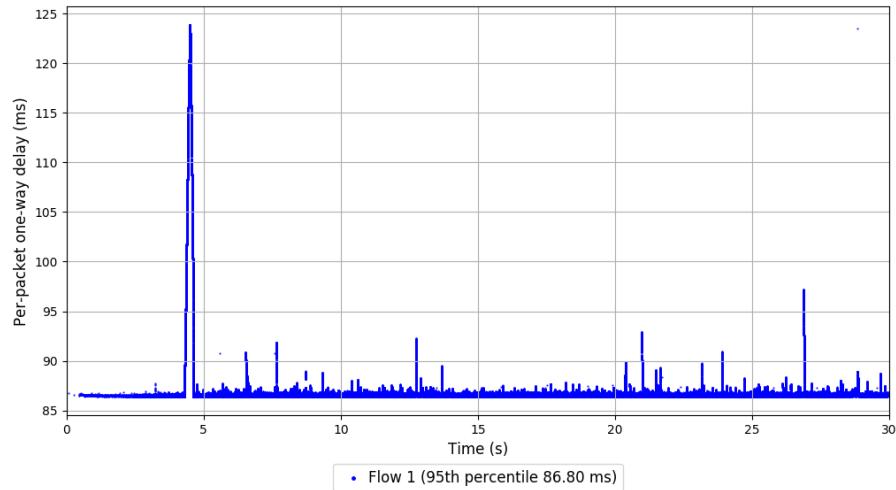
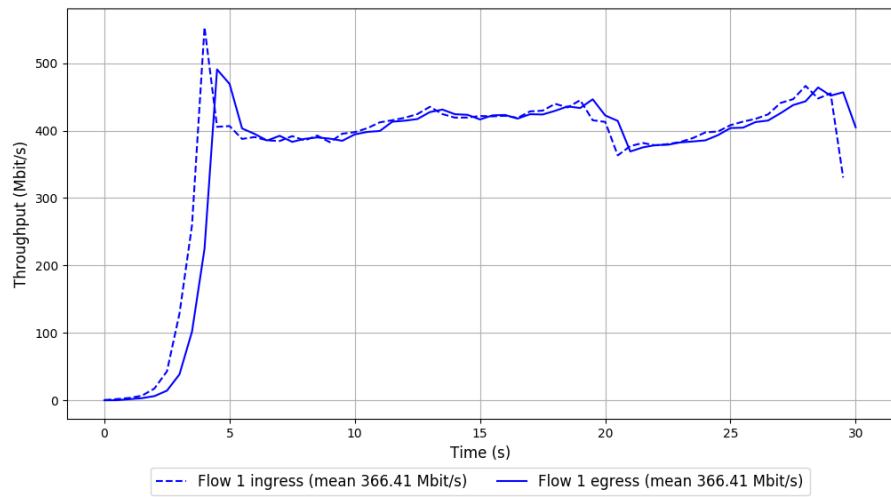


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-21 03:52:49
End at: 2019-01-21 03:53:19
Local clock offset: 14.213 ms
Remote clock offset: 14.157 ms

# Below is generated by plot.py at 2019-01-21 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 366.41 Mbit/s
95th percentile per-packet one-way delay: 86.798 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 366.41 Mbit/s
95th percentile per-packet one-way delay: 86.798 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

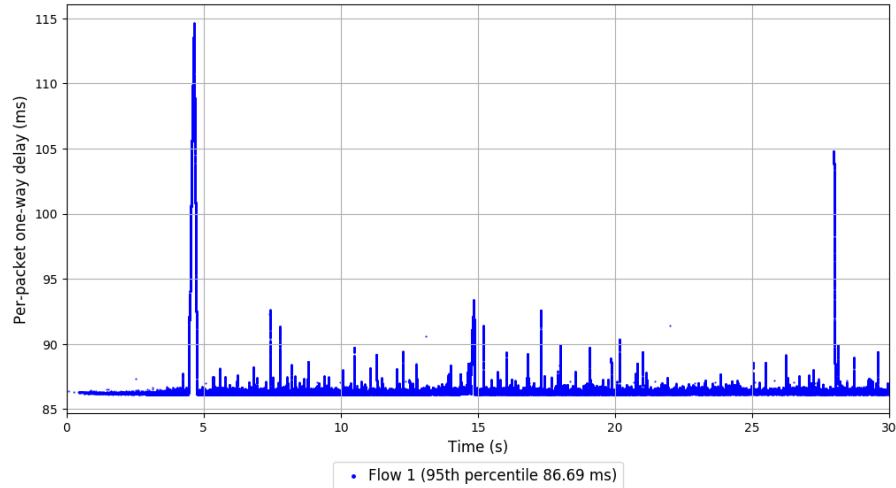
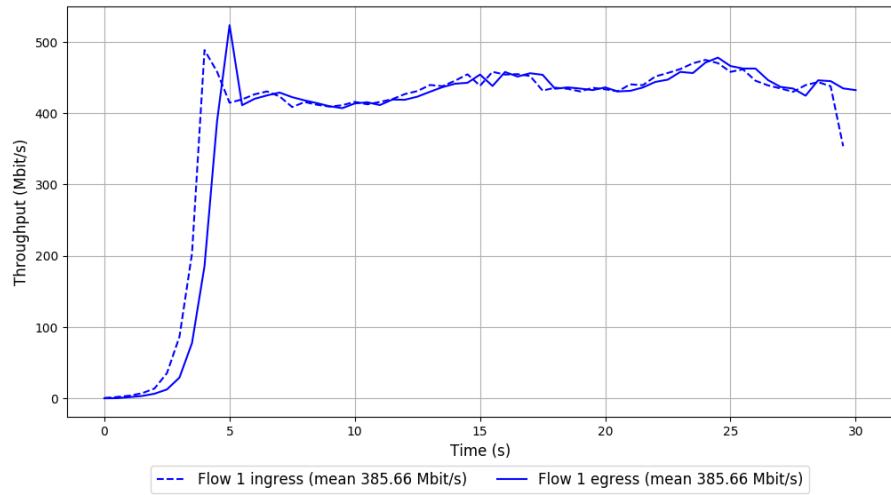


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-21 04:24:13
End at: 2019-01-21 04:24:44
Local clock offset: 23.837 ms
Remote clock offset: 23.444 ms

# Below is generated by plot.py at 2019-01-21 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 385.66 Mbit/s
95th percentile per-packet one-way delay: 86.693 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 385.66 Mbit/s
95th percentile per-packet one-way delay: 86.693 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

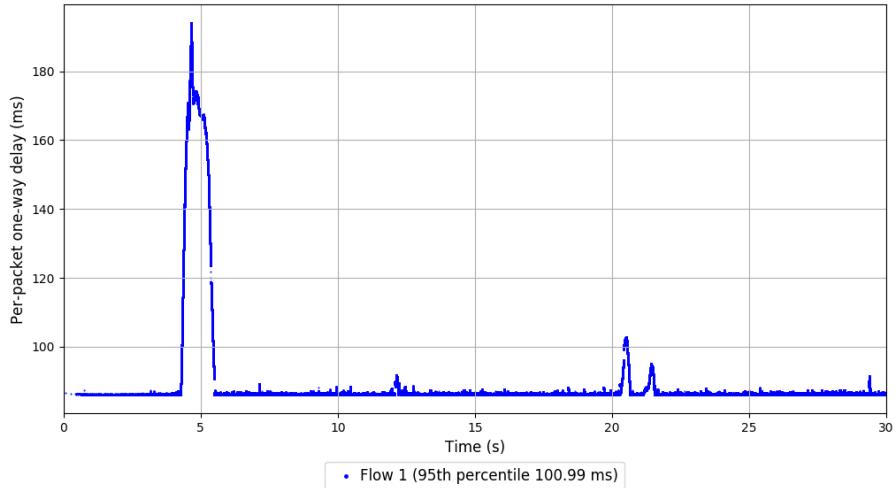
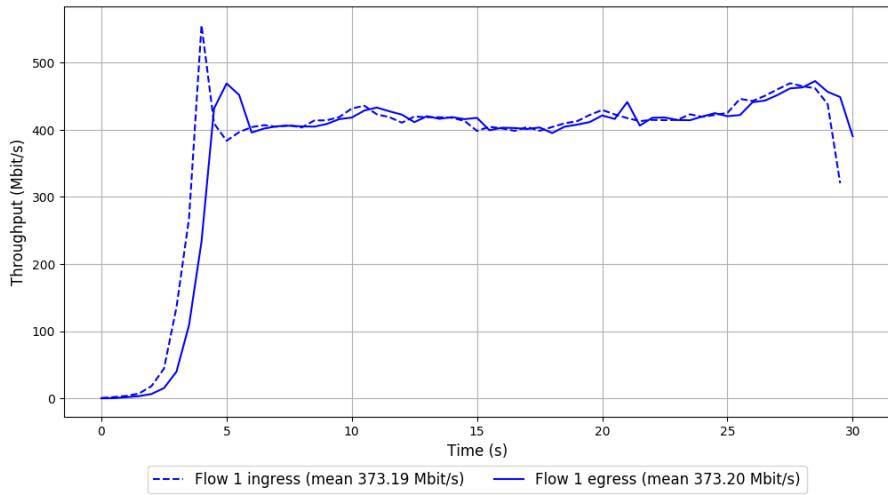


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-21 04:55:52
End at: 2019-01-21 04:56:22
Local clock offset: 16.455 ms
Remote clock offset: 15.801 ms

# Below is generated by plot.py at 2019-01-21 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 373.20 Mbit/s
95th percentile per-packet one-way delay: 100.993 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 373.20 Mbit/s
95th percentile per-packet one-way delay: 100.993 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

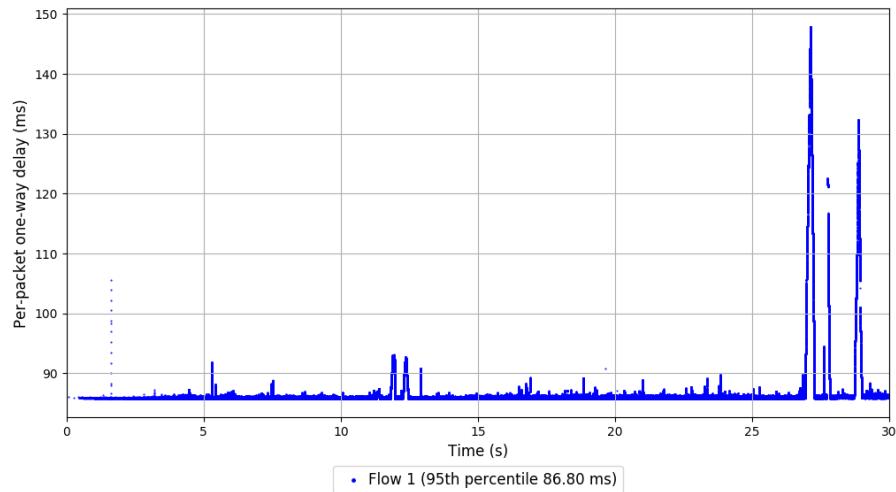
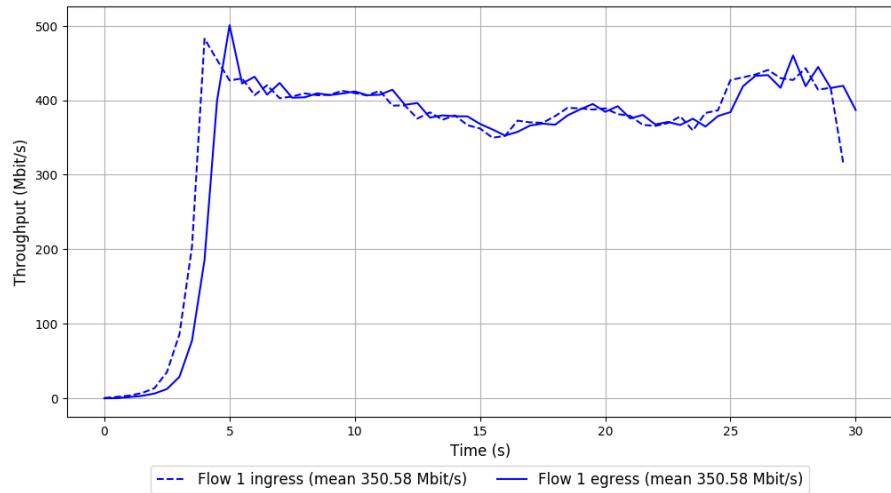


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-21 05:27:36
End at: 2019-01-21 05:28:06
Local clock offset: 8.736 ms
Remote clock offset: 6.71 ms

# Below is generated by plot.py at 2019-01-21 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 350.58 Mbit/s
95th percentile per-packet one-way delay: 86.802 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 350.58 Mbit/s
95th percentile per-packet one-way delay: 86.802 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

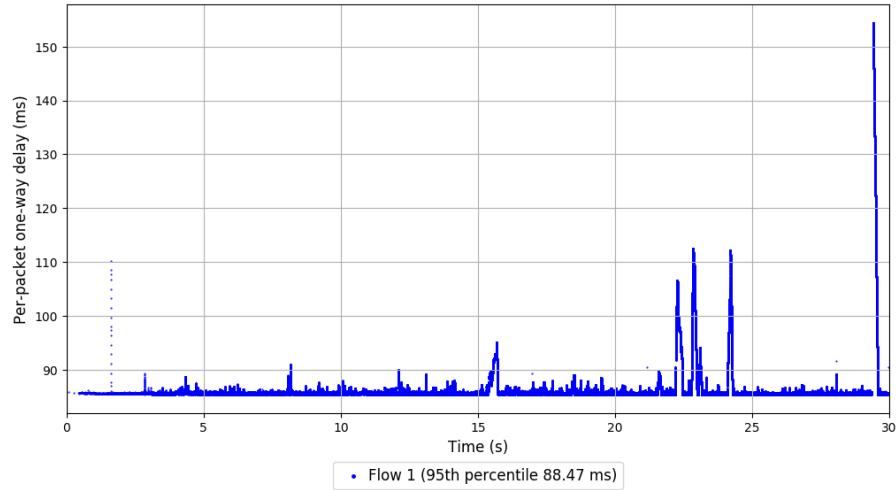
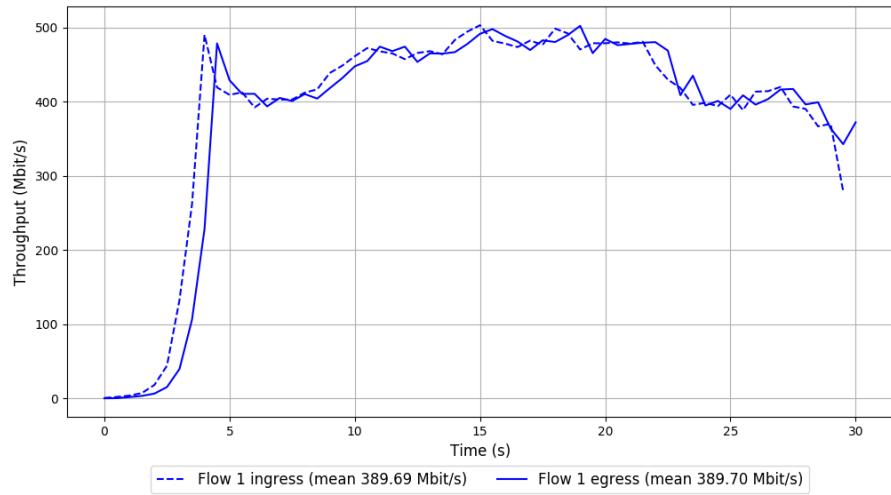


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-21 05:59:06
End at: 2019-01-21 05:59:36
Local clock offset: 4.279 ms
Remote clock offset: 2.205 ms

# Below is generated by plot.py at 2019-01-21 08:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 389.70 Mbit/s
95th percentile per-packet one-way delay: 88.467 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 389.70 Mbit/s
95th percentile per-packet one-way delay: 88.467 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

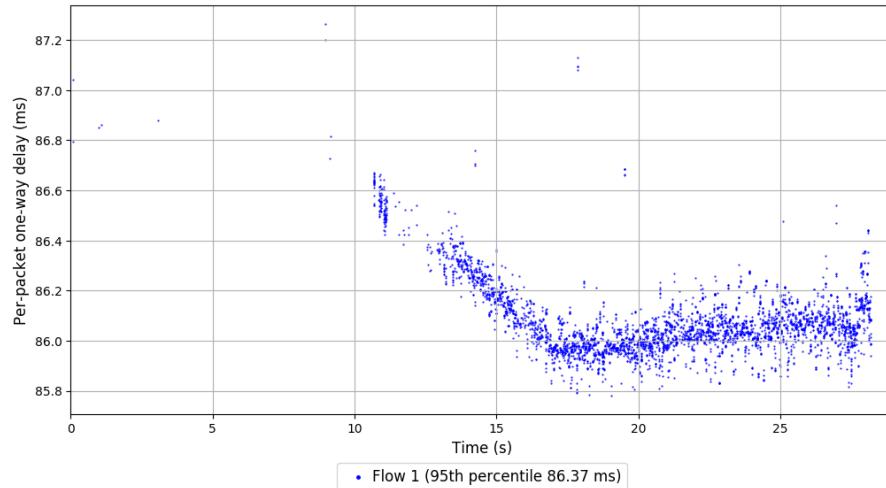
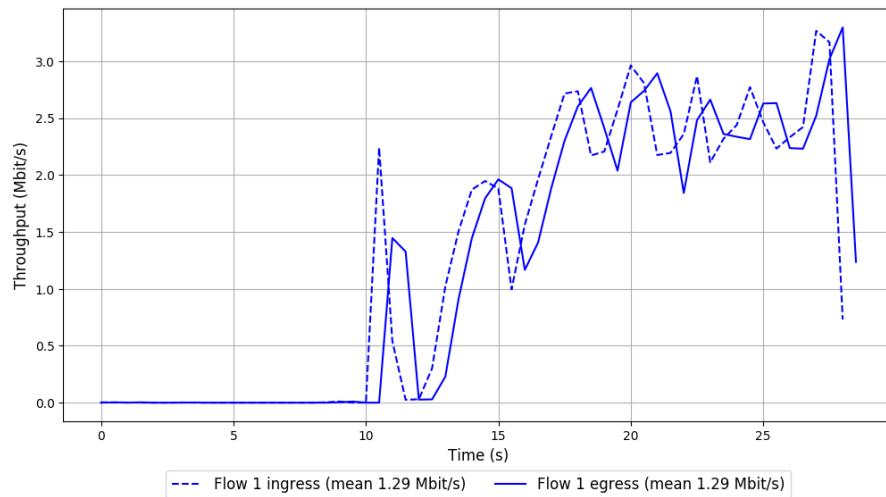


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-21 03:41:25
End at: 2019-01-21 03:41:55
Local clock offset: 10.575 ms
Remote clock offset: 10.756 ms

# Below is generated by plot.py at 2019-01-21 08:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 86.367 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 86.367 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

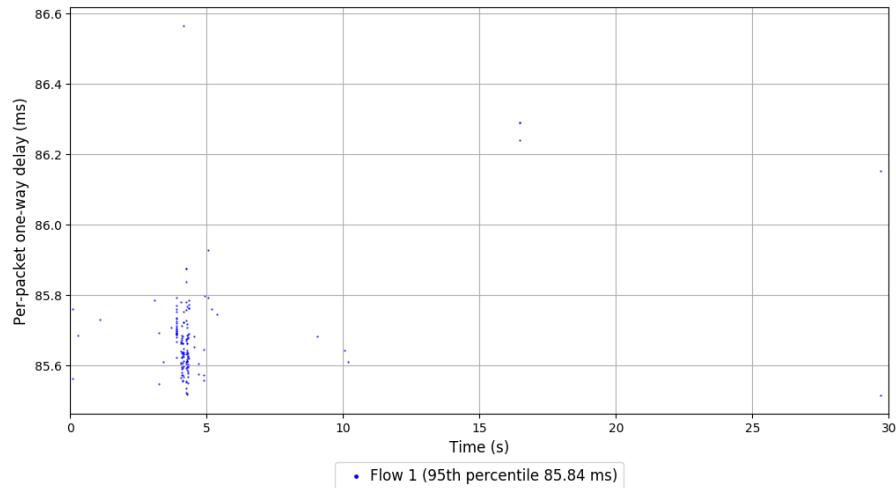
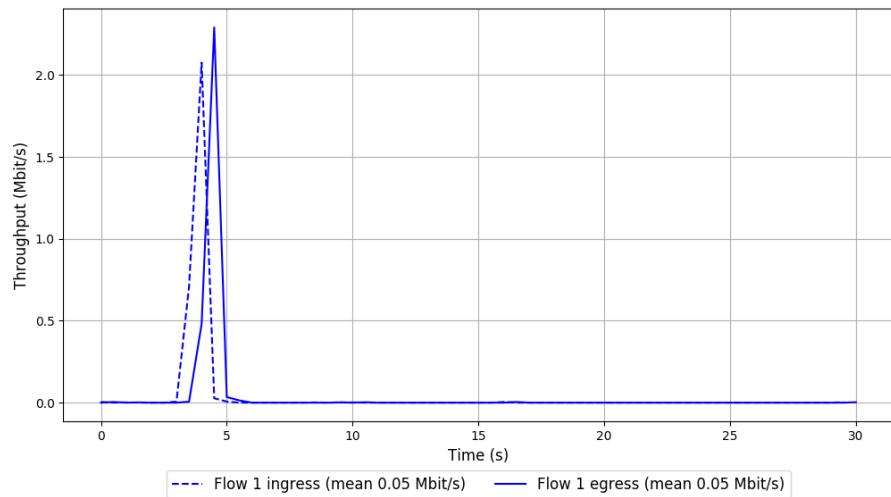


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-21 04:13:05
End at: 2019-01-21 04:13:35
Local clock offset: 21.52 ms
Remote clock offset: 20.646 ms

# Below is generated by plot.py at 2019-01-21 08:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.839 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.839 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

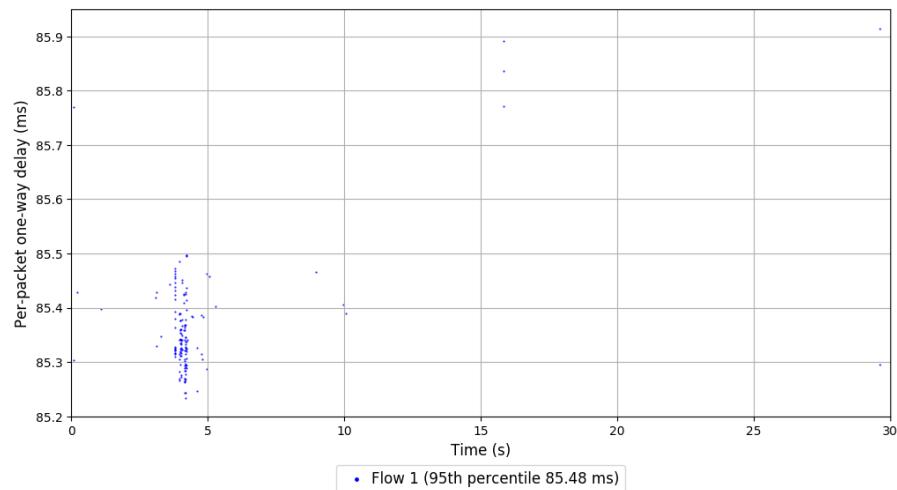
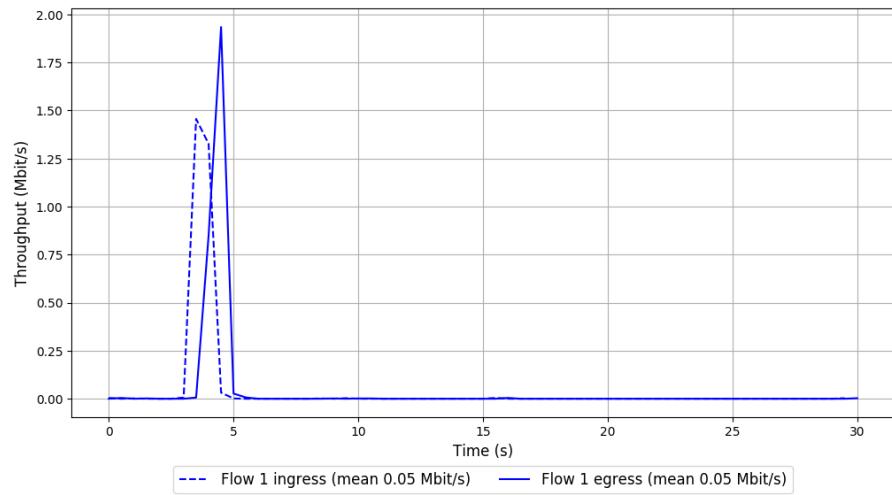


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-21 04:44:38
End at: 2019-01-21 04:45:08
Local clock offset: 31.578 ms
Remote clock offset: 30.197 ms

# Below is generated by plot.py at 2019-01-21 08:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.485 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.485 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

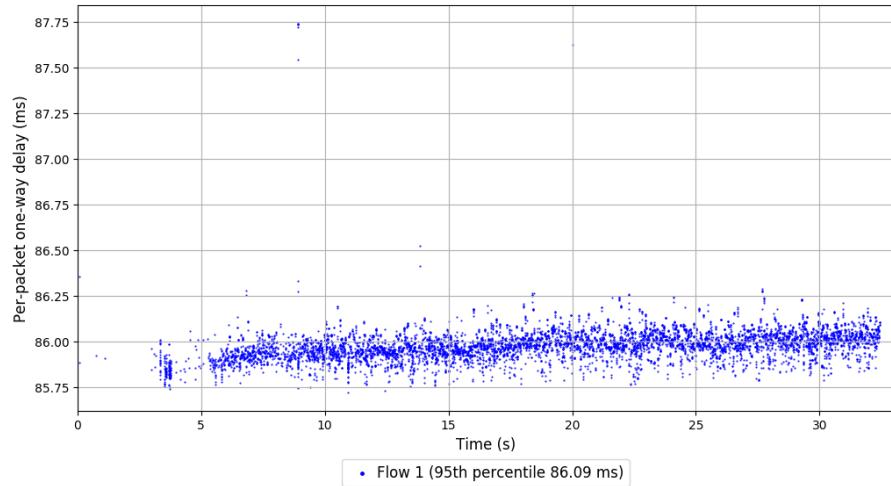
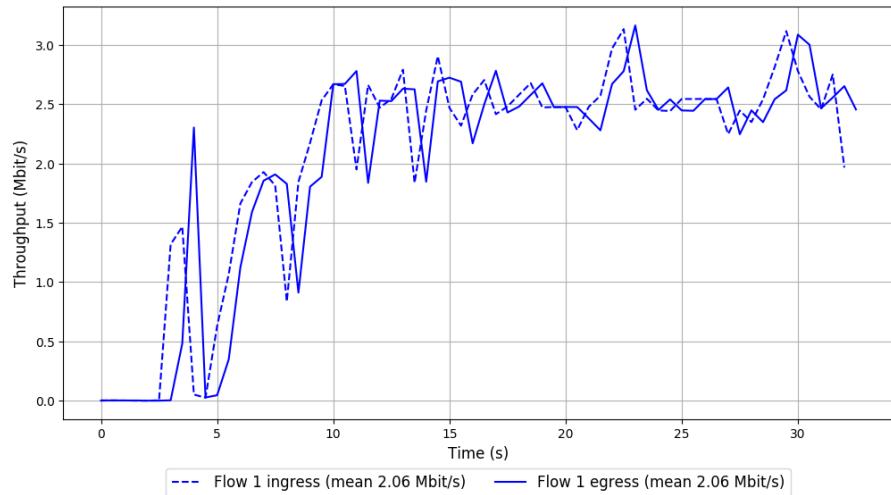


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-21 05:16:16
End at: 2019-01-21 05:16:46
Local clock offset: 20.002 ms
Remote clock offset: 19.156 ms

# Below is generated by plot.py at 2019-01-21 08:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 86.093 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 86.093 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-21 05:47:45
End at: 2019-01-21 05:48:15
Local clock offset: 9.876 ms
Remote clock offset: 4.467 ms

# Below is generated by plot.py at 2019-01-21 08:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 85.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 85.873 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

