

Pantheon Report

Generated at 2019-01-21 20:44:05 (UTC).
Data path: GCE Iowa on `ens4 (local)` → GCE Tokyo 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.

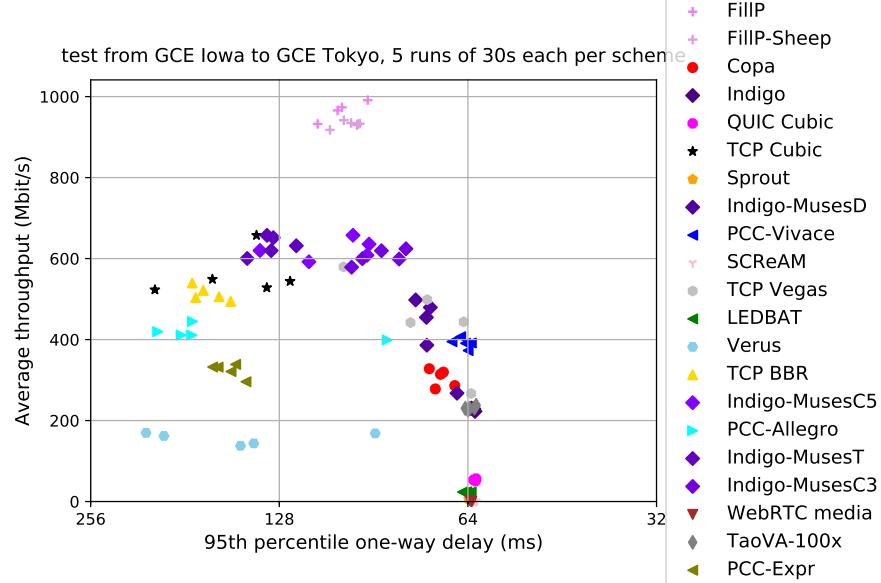
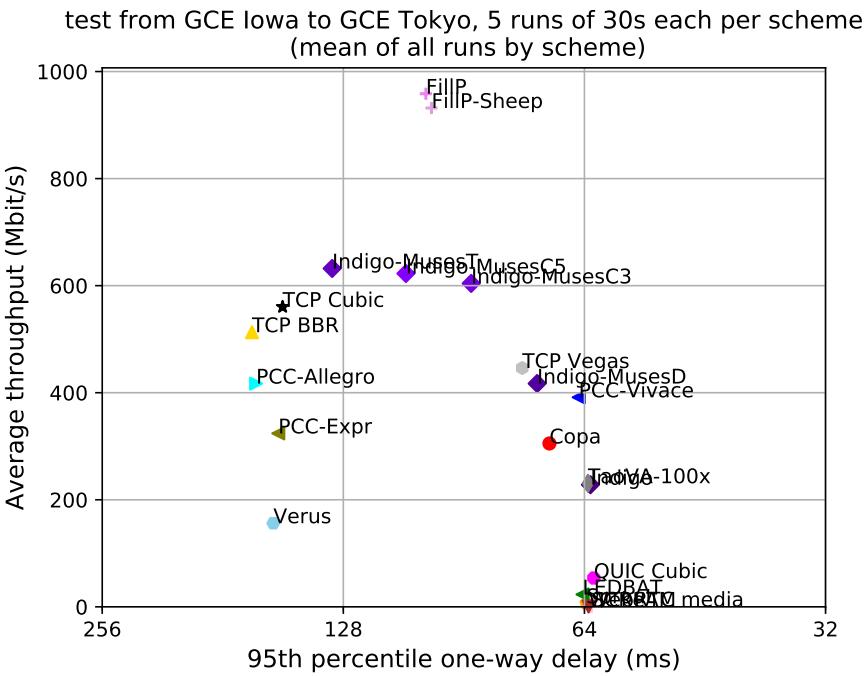
System info:

```
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



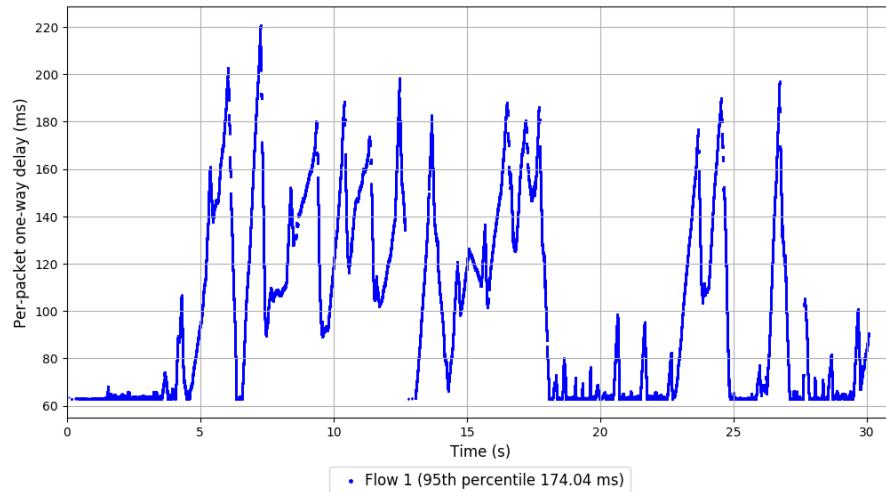
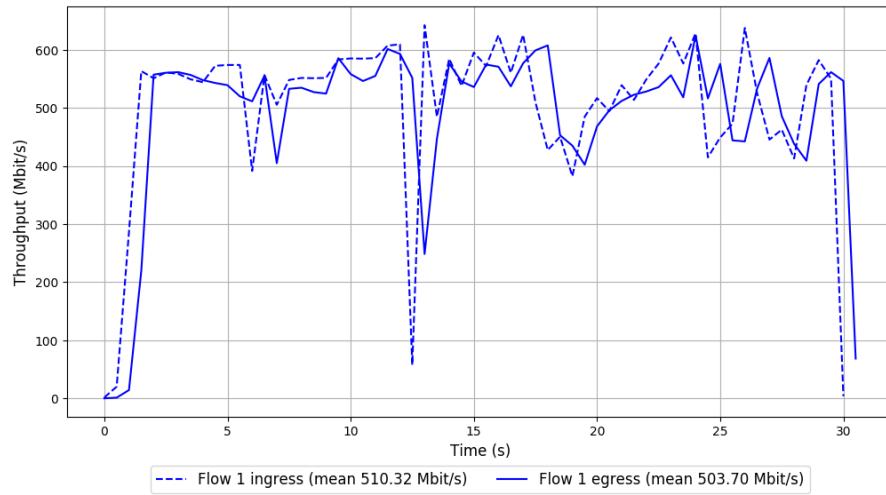
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	513.04	166.44	1.36
Copa	5	305.20	70.78	0.02
TCP Cubic	5	560.34	152.41	0.15
FillP	5	958.56	100.96	0.40
FillP-Sheep	5	931.93	99.34	0.59
Indigo	4	228.08	62.91	0.00
Indigo-MusesC3	5	604.18	88.64	0.03
Indigo-MusesC5	5	622.70	106.92	0.05
Indigo-MusesD	5	417.17	73.32	0.01
Indigo-MusesT	5	632.11	132.18	0.12
LEDBAT	5	23.11	64.35	0.00
PCC-Allegro	5	417.01	164.47	3.06
PCC-Expr	5	323.98	154.33	1.06
QUIC Cubic	4	53.80	62.30	0.00
SCReAM	5	0.22	62.74	0.00
Sprout	5	6.74	63.67	0.00
TaoVA-100x	5	230.92	63.36	0.00
TCP Vegas	5	446.13	76.53	0.01
Verus	5	156.21	156.54	1.43
PCC-Vivace	5	391.43	65.07	0.04
WebRTC media	4	0.55	63.25	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-21 15:55:16
End at: 2019-01-21 15:55:46
Local clock offset: 0.017 ms
Remote clock offset: -0.333 ms

# Below is generated by plot.py at 2019-01-21 18:38:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 503.70 Mbit/s
95th percentile per-packet one-way delay: 174.040 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 503.70 Mbit/s
95th percentile per-packet one-way delay: 174.040 ms
Loss rate: 1.30%
```

Run 1: Report of TCP BBR — Data Link

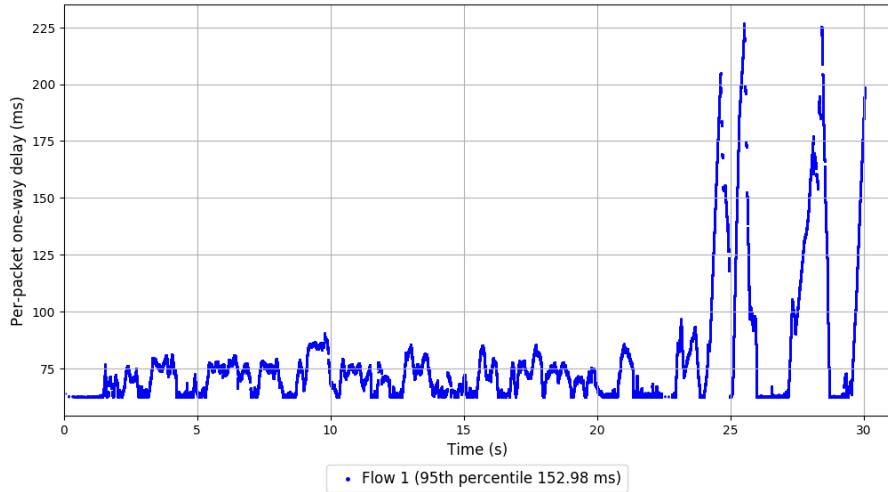
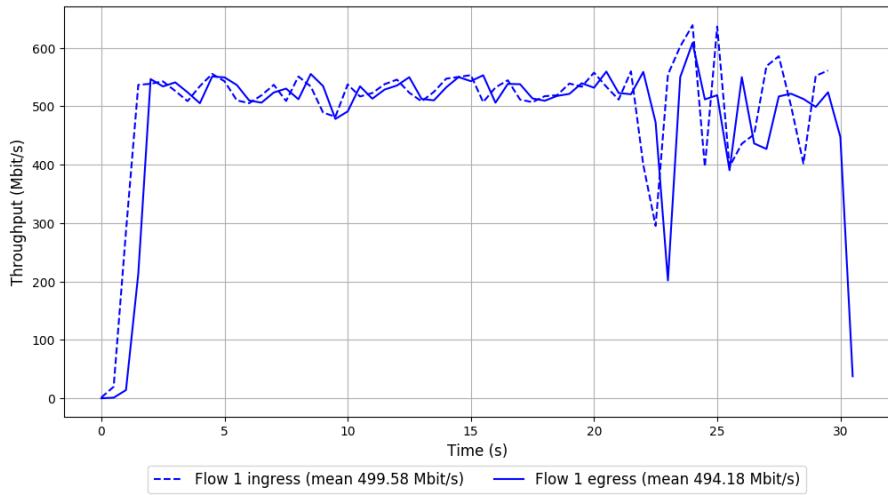


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-21 16:26:23
End at: 2019-01-21 16:26:53
Local clock offset: -0.013 ms
Remote clock offset: -0.553 ms

# Below is generated by plot.py at 2019-01-21 18:38:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 494.18 Mbit/s
95th percentile per-packet one-way delay: 152.980 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 494.18 Mbit/s
95th percentile per-packet one-way delay: 152.980 ms
Loss rate: 1.08%
```

Run 2: Report of TCP BBR — Data Link

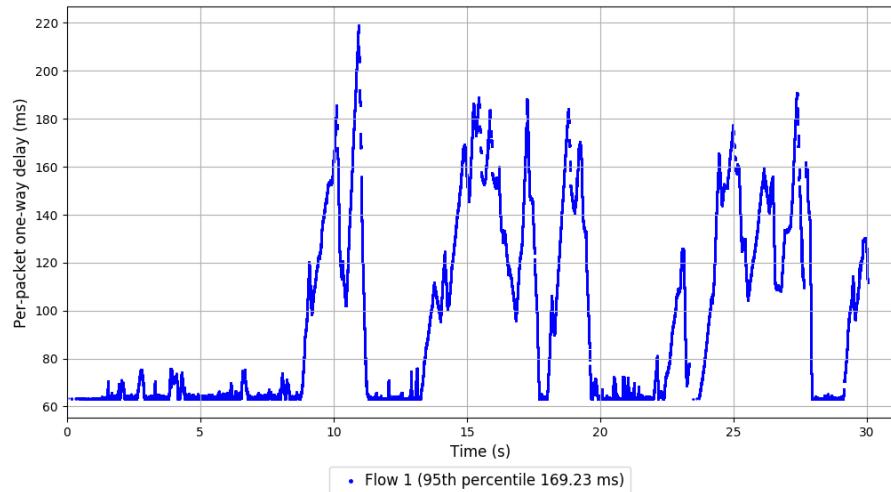
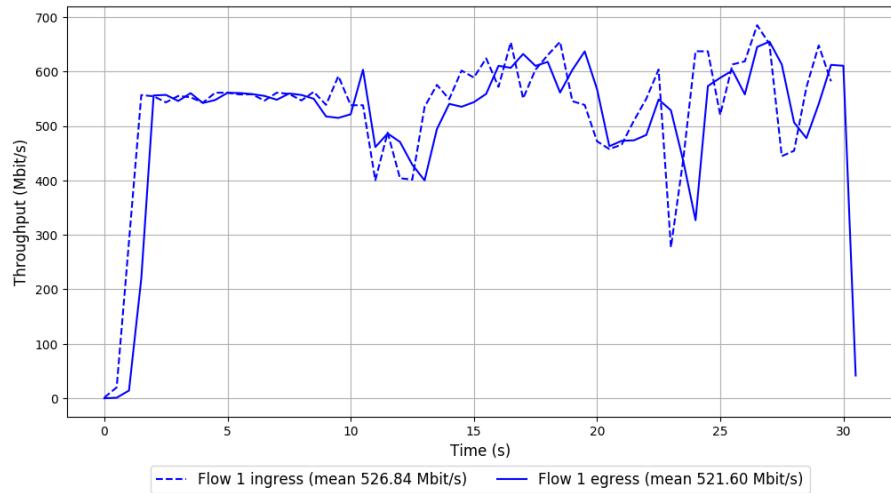


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-21 16:57:15
End at: 2019-01-21 16:57:45
Local clock offset: -0.122 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-01-21 18:38:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 521.60 Mbit/s
95th percentile per-packet one-way delay: 169.226 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 521.60 Mbit/s
95th percentile per-packet one-way delay: 169.226 ms
Loss rate: 0.99%
```

Run 3: Report of TCP BBR — Data Link

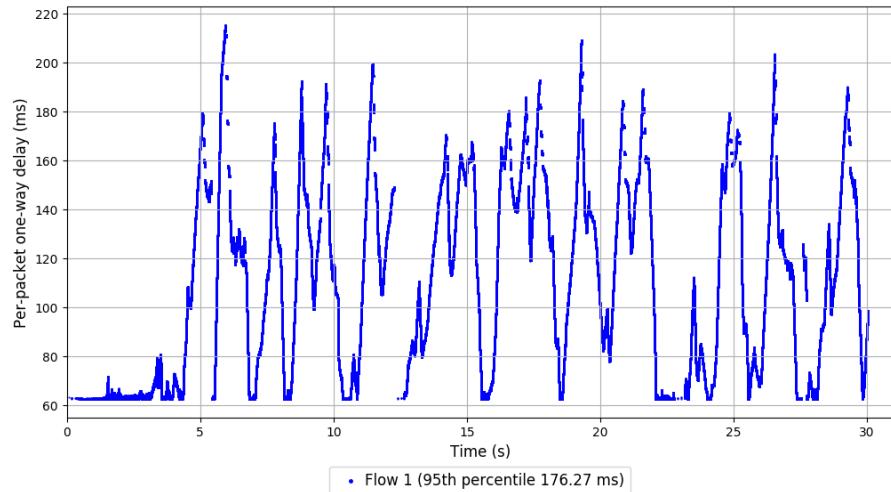
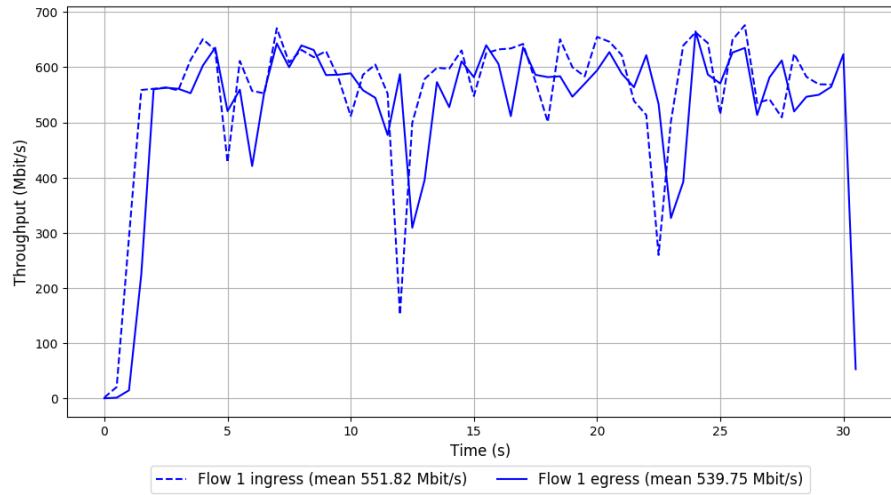


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-21 17:28:24
End at: 2019-01-21 17:28:54
Local clock offset: -0.057 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-01-21 18:39:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 539.75 Mbit/s
95th percentile per-packet one-way delay: 176.268 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 539.75 Mbit/s
95th percentile per-packet one-way delay: 176.268 ms
Loss rate: 2.19%
```

Run 4: Report of TCP BBR — Data Link

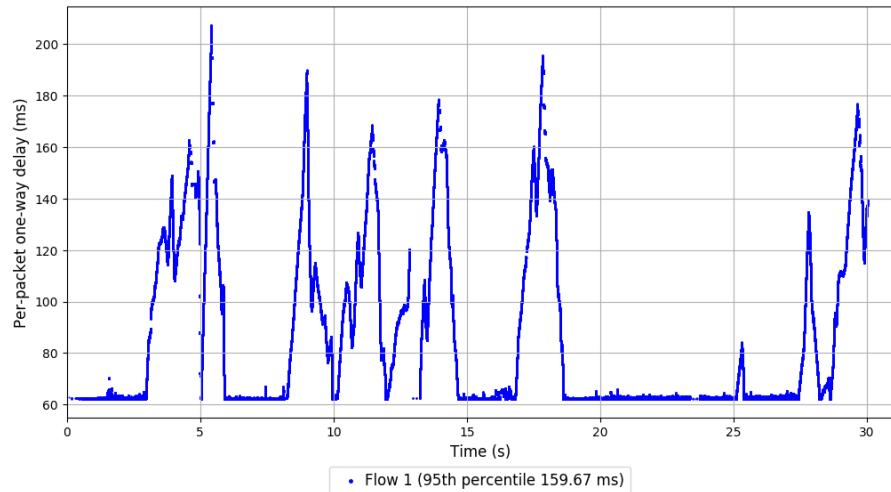
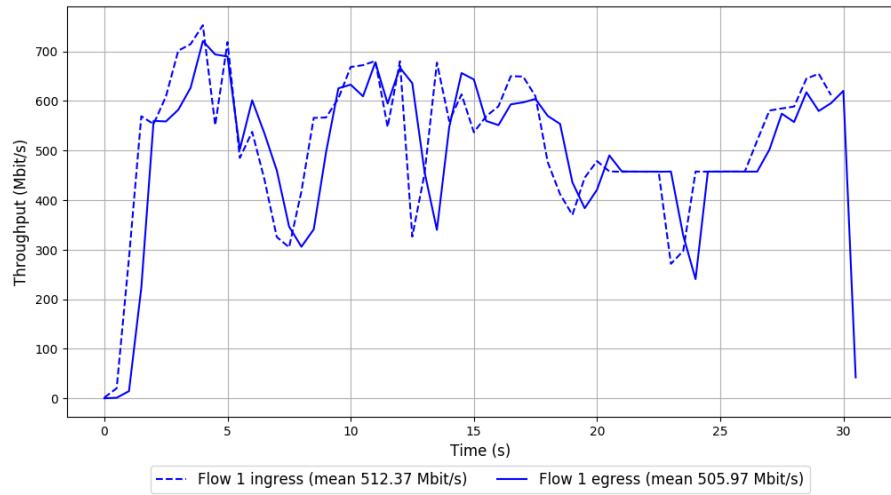


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-21 17:59:49
End at: 2019-01-21 18:00:19
Local clock offset: -0.067 ms
Remote clock offset: -0.789 ms

# Below is generated by plot.py at 2019-01-21 18:39:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 505.97 Mbit/s
95th percentile per-packet one-way delay: 159.671 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 505.97 Mbit/s
95th percentile per-packet one-way delay: 159.671 ms
Loss rate: 1.25%
```

Run 5: Report of TCP BBR — Data Link

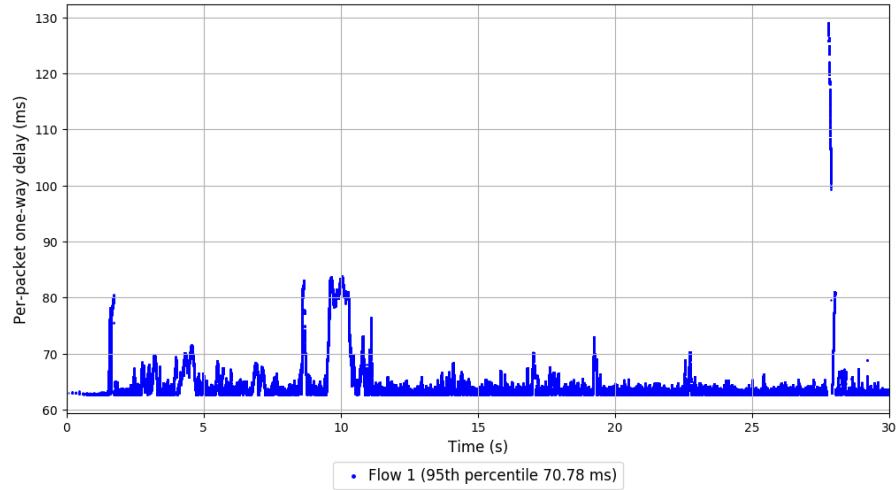
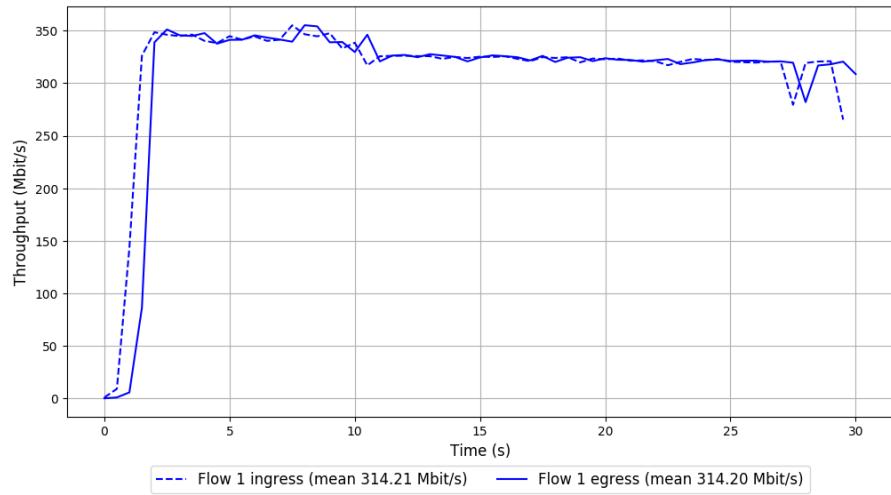


Run 1: Statistics of Copa

```
Start at: 2019-01-21 15:40:41
End at: 2019-01-21 15:41:11
Local clock offset: -0.035 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-01-21 18:39:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 314.20 Mbit/s
95th percentile per-packet one-way delay: 70.785 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 314.20 Mbit/s
95th percentile per-packet one-way delay: 70.785 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link

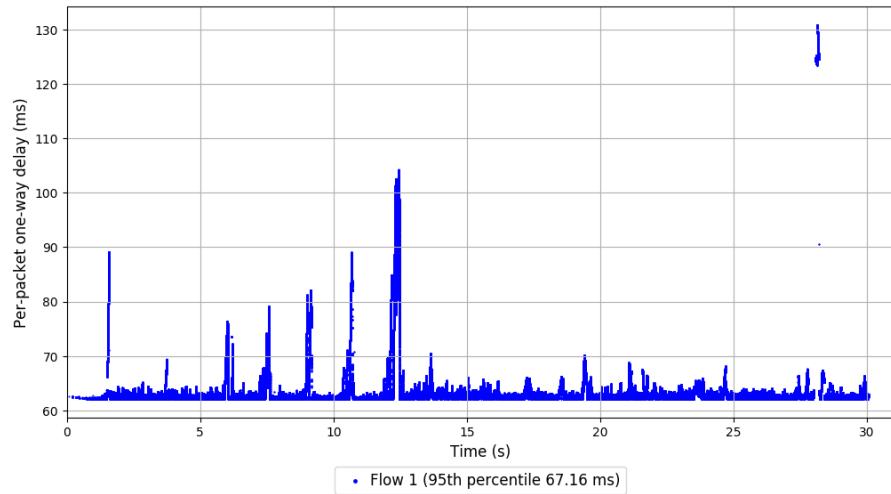
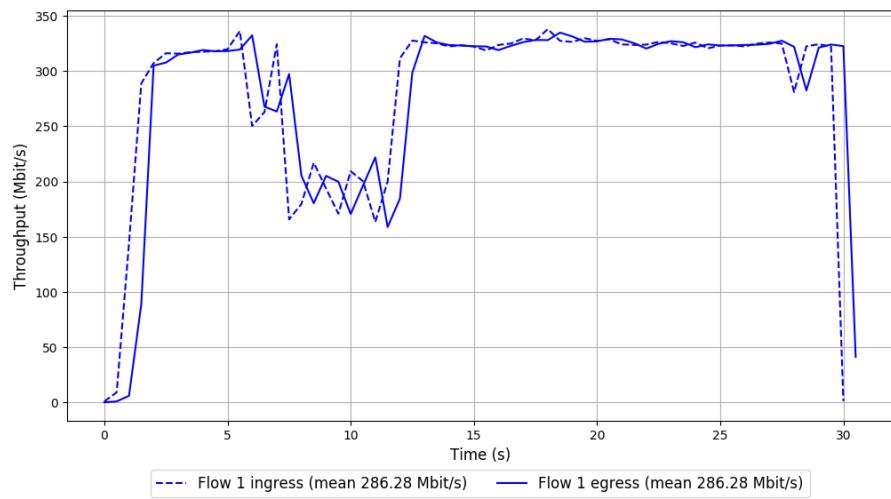


Run 2: Statistics of Copa

```
Start at: 2019-01-21 16:11:38
End at: 2019-01-21 16:12:08
Local clock offset: -0.021 ms
Remote clock offset: -0.617 ms

# Below is generated by plot.py at 2019-01-21 18:39:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 286.28 Mbit/s
95th percentile per-packet one-way delay: 67.163 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 286.28 Mbit/s
95th percentile per-packet one-way delay: 67.163 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link

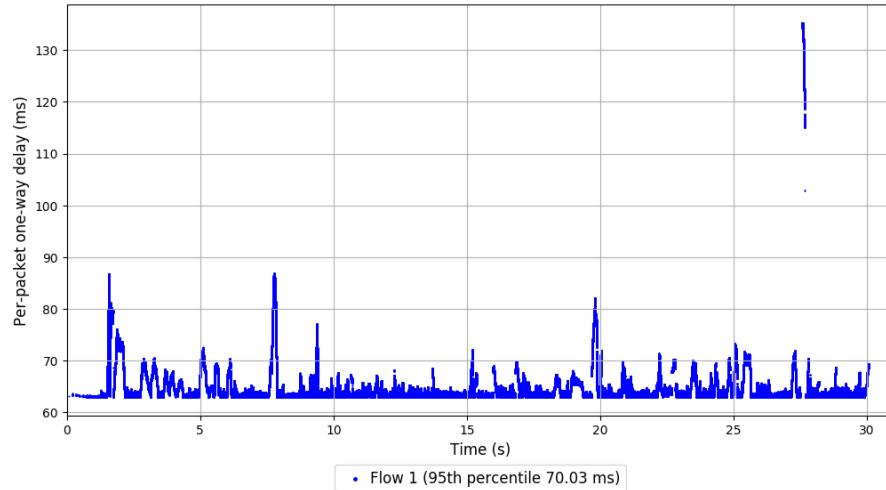
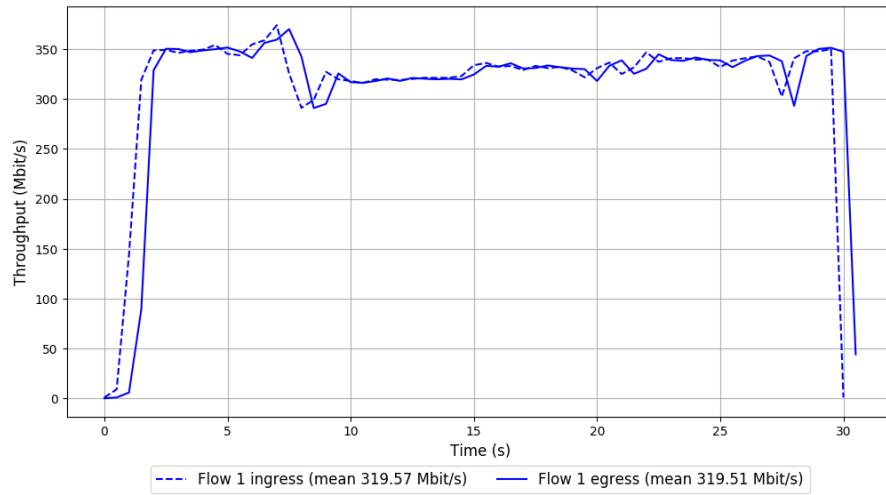


Run 3: Statistics of Copa

```
Start at: 2019-01-21 16:42:23
End at: 2019-01-21 16:42:53
Local clock offset: 0.128 ms
Remote clock offset: 0.431 ms

# Below is generated by plot.py at 2019-01-21 18:40:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.51 Mbit/s
95th percentile per-packet one-way delay: 70.035 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 319.51 Mbit/s
95th percentile per-packet one-way delay: 70.035 ms
Loss rate: 0.02%
```

Run 3: Report of Copa — Data Link

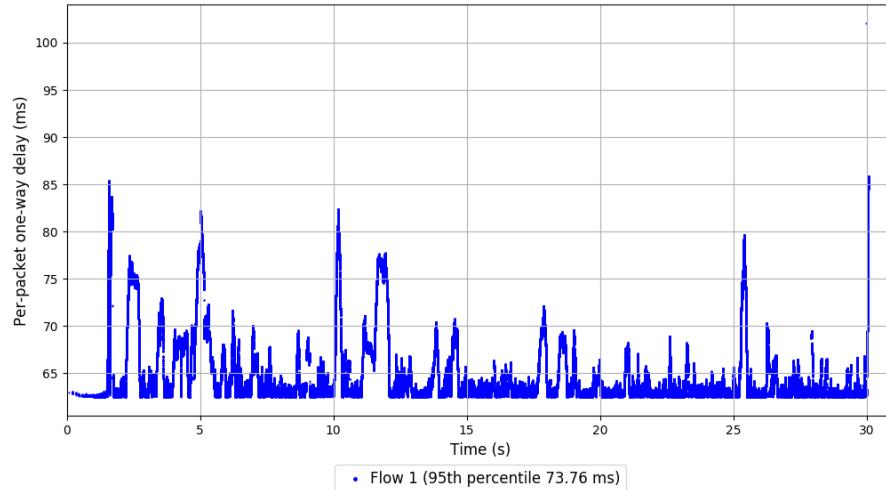
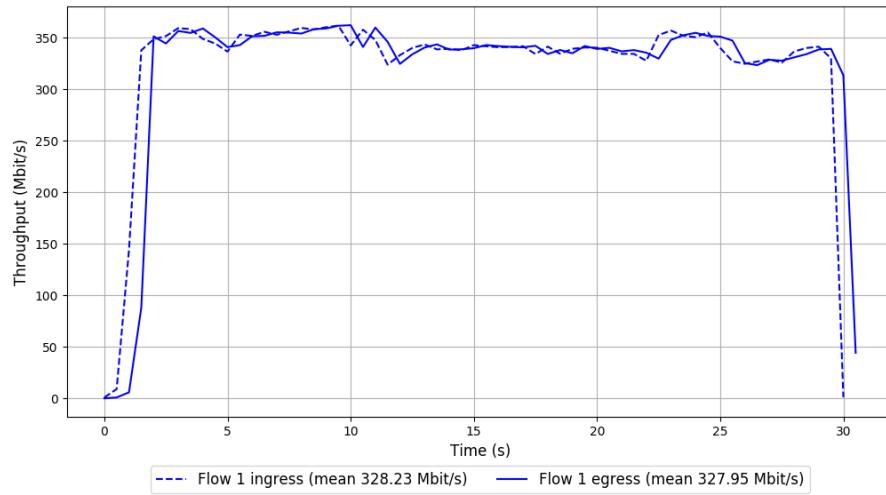


Run 4: Statistics of Copa

```
Start at: 2019-01-21 17:13:27
End at: 2019-01-21 17:13:57
Local clock offset: -0.078 ms
Remote clock offset: -0.378 ms

# Below is generated by plot.py at 2019-01-21 18:51:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.95 Mbit/s
95th percentile per-packet one-way delay: 73.758 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 327.95 Mbit/s
95th percentile per-packet one-way delay: 73.758 ms
Loss rate: 0.08%
```

Run 4: Report of Copa — Data Link

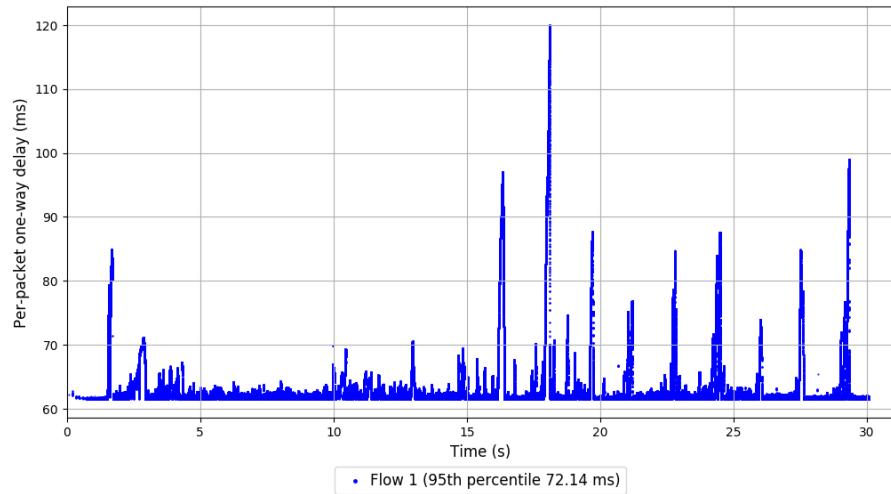
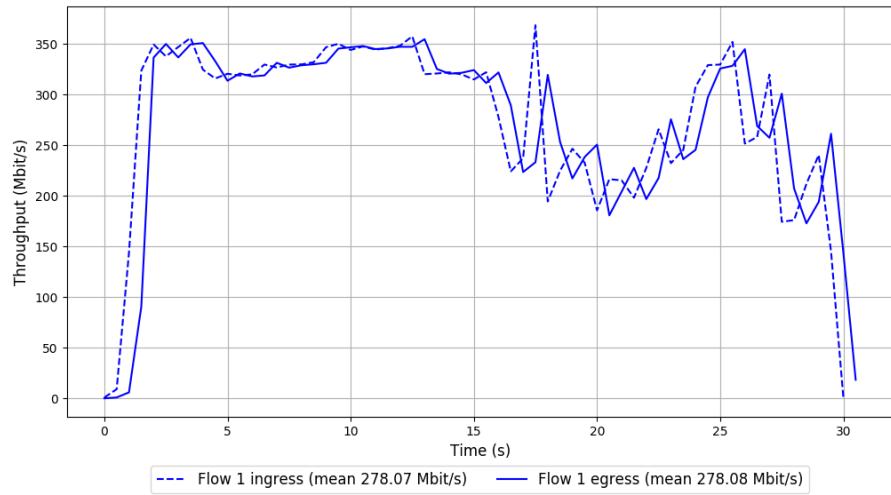


Run 5: Statistics of Copa

```
Start at: 2019-01-21 17:44:55
End at: 2019-01-21 17:45:25
Local clock offset: -0.045 ms
Remote clock offset: -1.314 ms

# Below is generated by plot.py at 2019-01-21 18:51:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.08 Mbit/s
95th percentile per-packet one-way delay: 72.144 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 278.08 Mbit/s
95th percentile per-packet one-way delay: 72.144 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

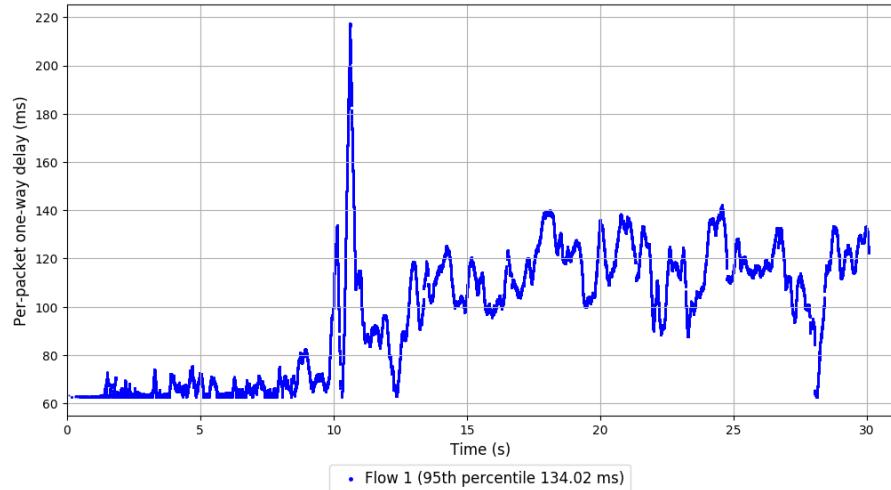
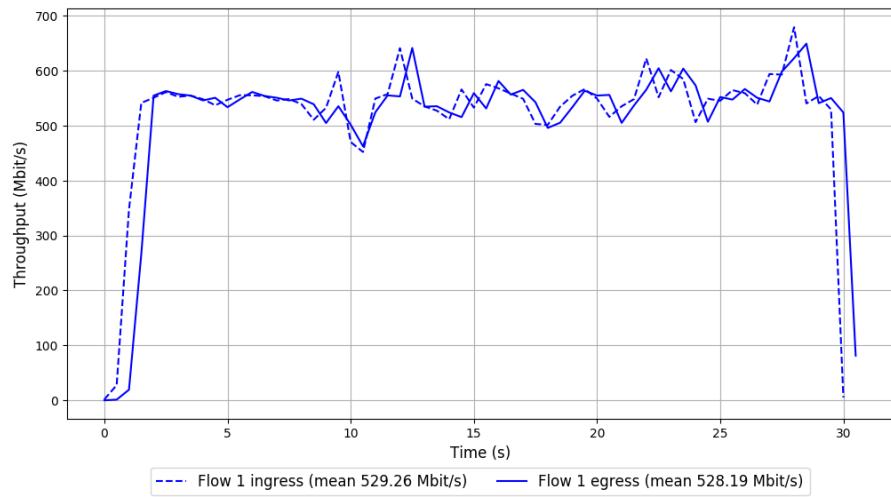


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-21 16:01:05
End at: 2019-01-21 16:01:35
Local clock offset: -0.01 ms
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2019-01-21 18:51:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 528.19 Mbit/s
95th percentile per-packet one-way delay: 134.018 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 528.19 Mbit/s
95th percentile per-packet one-way delay: 134.018 ms
Loss rate: 0.20%
```

Run 1: Report of TCP Cubic — Data Link

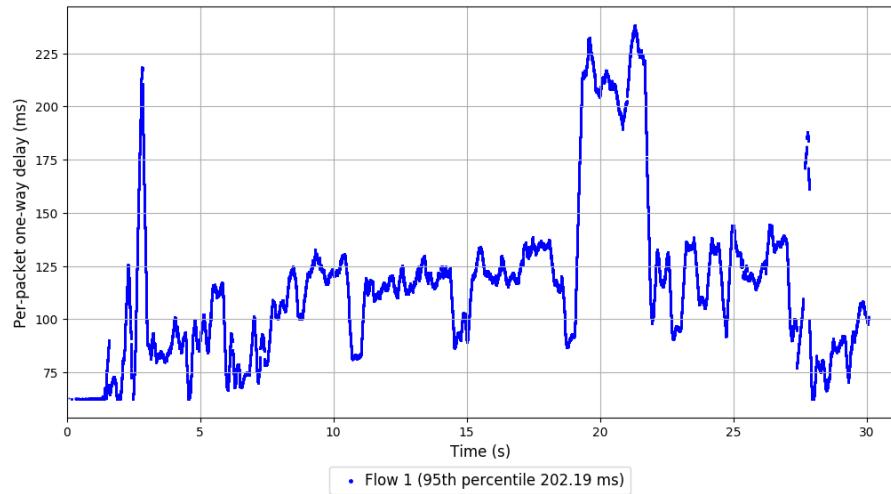
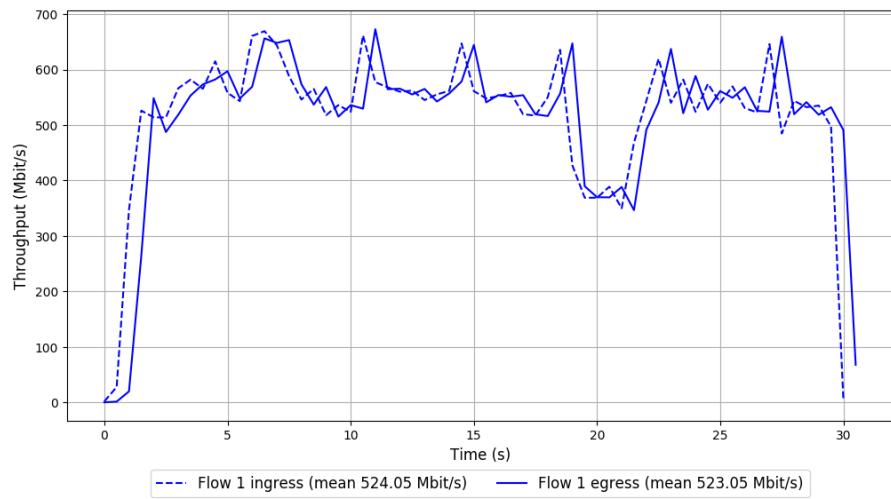


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-21 16:32:04
End at: 2019-01-21 16:32:34
Local clock offset: 0.012 ms
Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2019-01-21 18:51:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 523.05 Mbit/s
95th percentile per-packet one-way delay: 202.188 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 523.05 Mbit/s
95th percentile per-packet one-way delay: 202.188 ms
Loss rate: 0.19%
```

Run 2: Report of TCP Cubic — Data Link

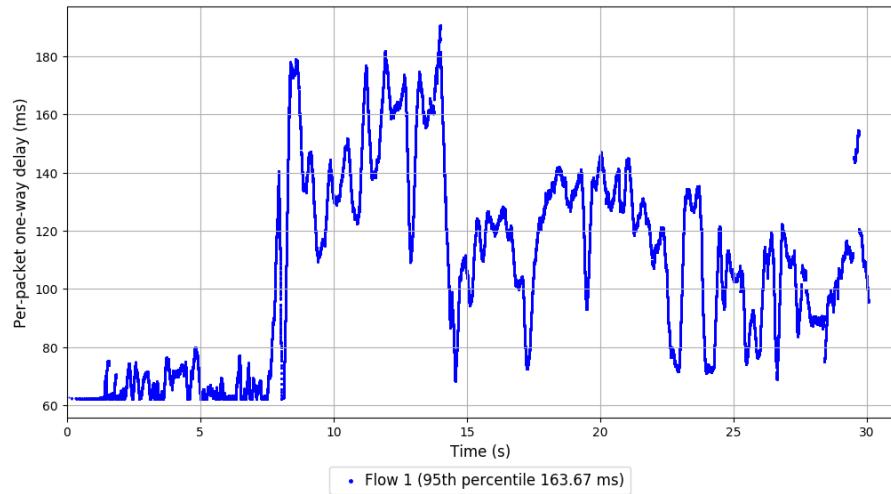
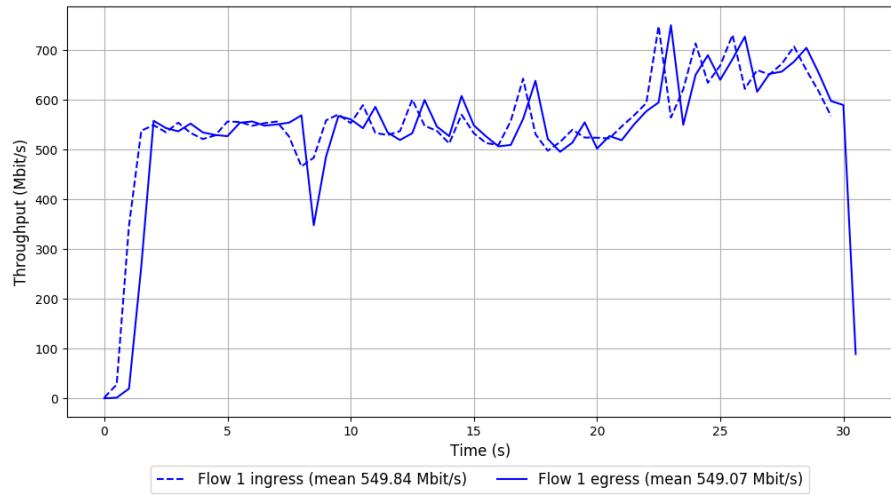


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-21 17:03:03
End at: 2019-01-21 17:03:33
Local clock offset: -0.084 ms
Remote clock offset: -0.794 ms

# Below is generated by plot.py at 2019-01-21 18:51:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 549.07 Mbit/s
95th percentile per-packet one-way delay: 163.669 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 549.07 Mbit/s
95th percentile per-packet one-way delay: 163.669 ms
Loss rate: 0.14%
```

Run 3: Report of TCP Cubic — Data Link

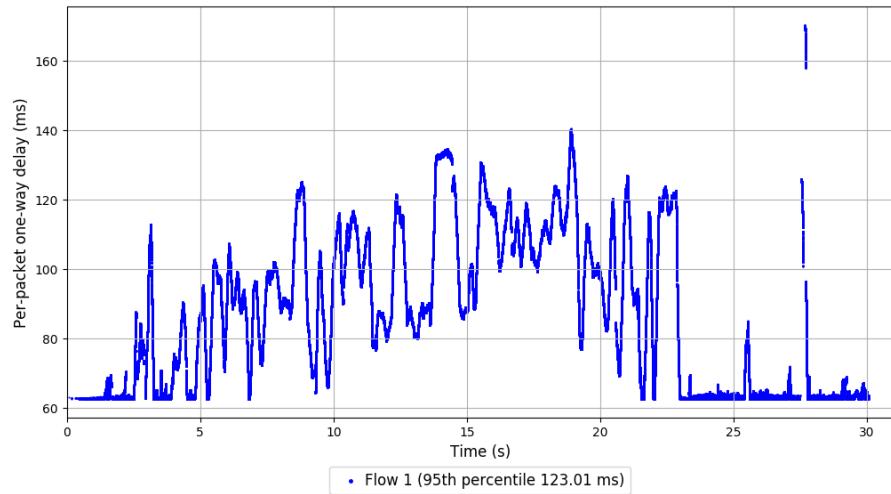
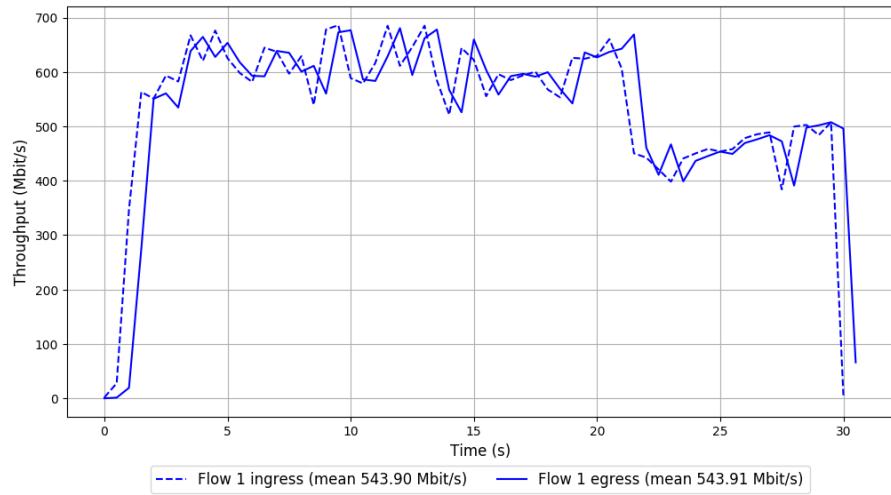


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-21 17:34:11
End at: 2019-01-21 17:34:41
Local clock offset: 0.058 ms
Remote clock offset: -0.325 ms

# Below is generated by plot.py at 2019-01-21 18:51:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 543.91 Mbit/s
95th percentile per-packet one-way delay: 123.012 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 543.91 Mbit/s
95th percentile per-packet one-way delay: 123.012 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Cubic — Data Link

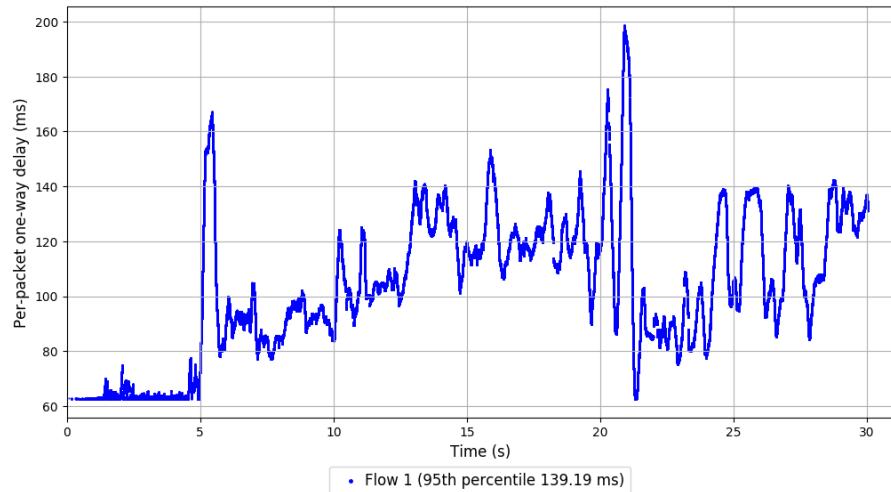
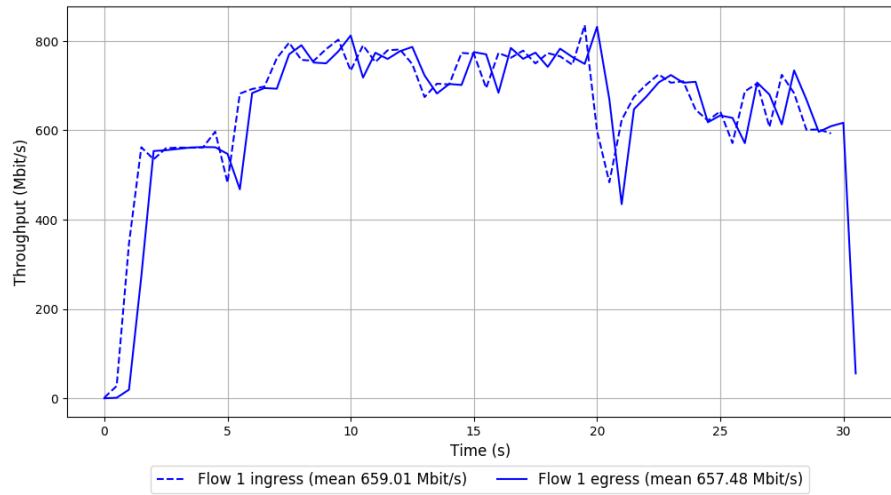


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-21 18:05:37
End at: 2019-01-21 18:06:07
Local clock offset: 0.081 ms
Remote clock offset: -0.312 ms

# Below is generated by plot.py at 2019-01-21 18:53:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 657.48 Mbit/s
95th percentile per-packet one-way delay: 139.185 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 657.48 Mbit/s
95th percentile per-packet one-way delay: 139.185 ms
Loss rate: 0.23%
```

Run 5: Report of TCP Cubic — Data Link

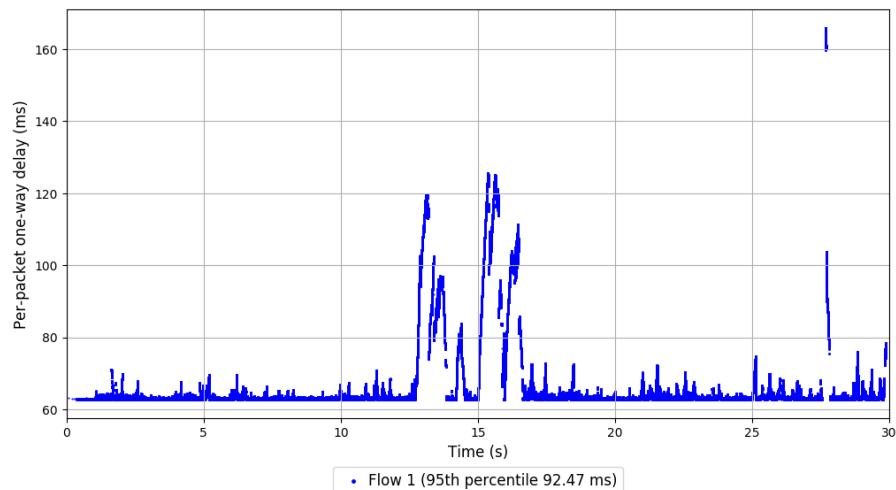
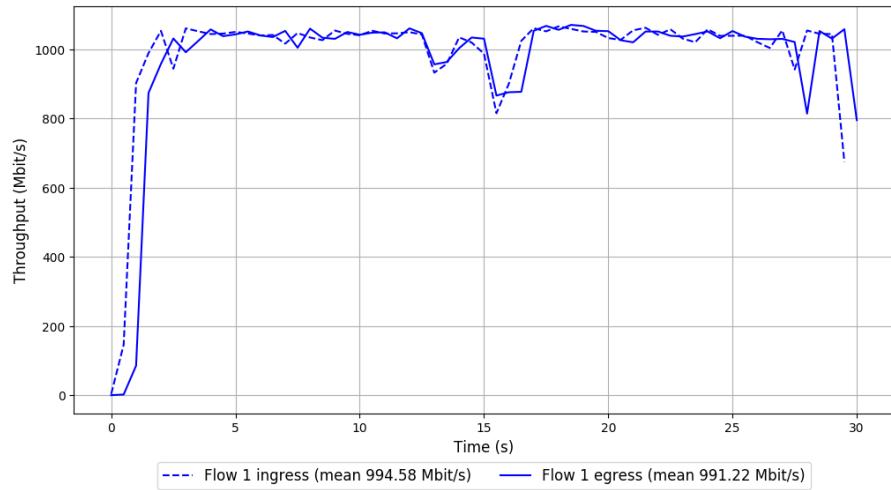


```
Run 1: Statistics of FillP
```

```
Start at: 2019-01-21 15:46:13
End at: 2019-01-21 15:46:43
Local clock offset: 0.009 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-01-21 19:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 991.22 Mbit/s
95th percentile per-packet one-way delay: 92.473 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 991.22 Mbit/s
95th percentile per-packet one-way delay: 92.473 ms
Loss rate: 0.34%
```

Run 1: Report of FillP — Data Link

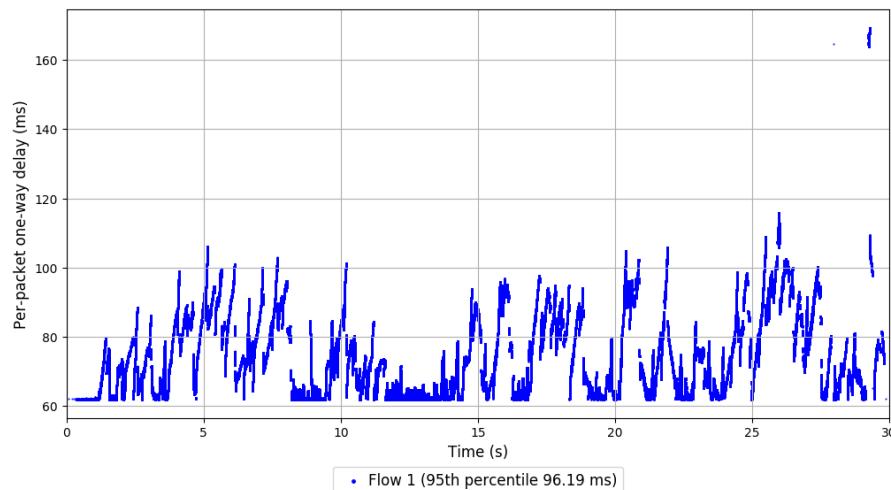
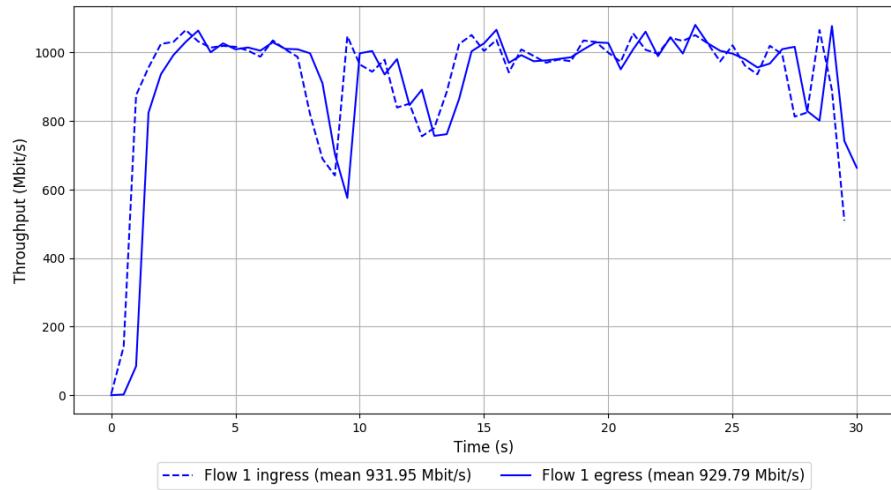


Run 2: Statistics of FillP

```
Start at: 2019-01-21 16:17:13
End at: 2019-01-21 16:17:43
Local clock offset: -0.004 ms
Remote clock offset: -0.821 ms

# Below is generated by plot.py at 2019-01-21 19:15:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 929.79 Mbit/s
95th percentile per-packet one-way delay: 96.186 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 929.79 Mbit/s
95th percentile per-packet one-way delay: 96.186 ms
Loss rate: 0.23%
```

Run 2: Report of FillP — Data Link

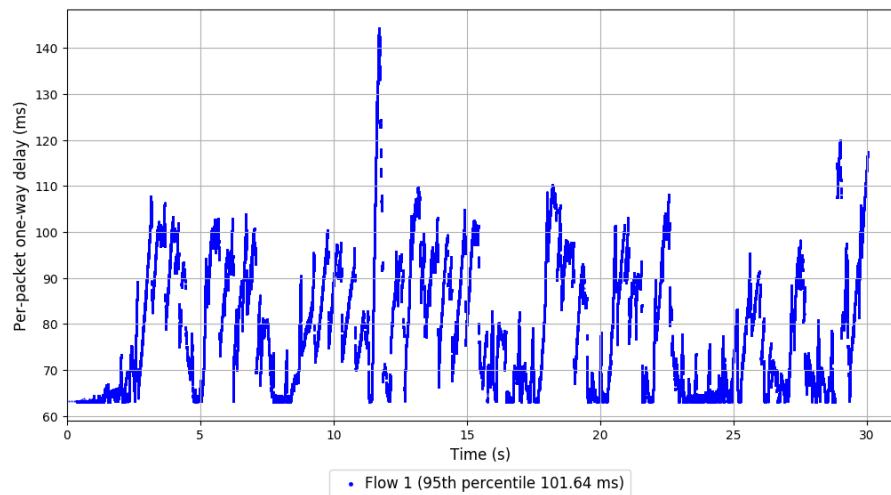
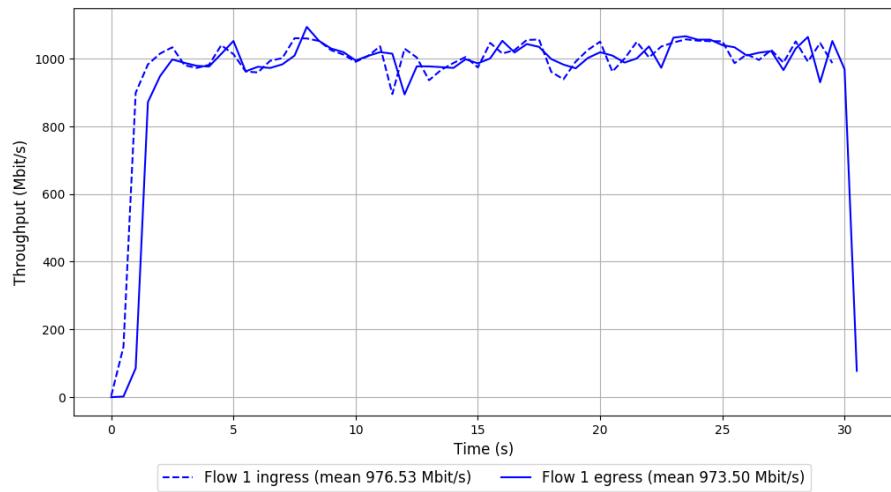


Run 3: Statistics of FillP

```
Start at: 2019-01-21 16:47:57
End at: 2019-01-21 16:48:27
Local clock offset: -0.051 ms
Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2019-01-21 19:17:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 973.50 Mbit/s
95th percentile per-packet one-way delay: 101.645 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 973.50 Mbit/s
95th percentile per-packet one-way delay: 101.645 ms
Loss rate: 0.30%
```

Run 3: Report of FillP — Data Link

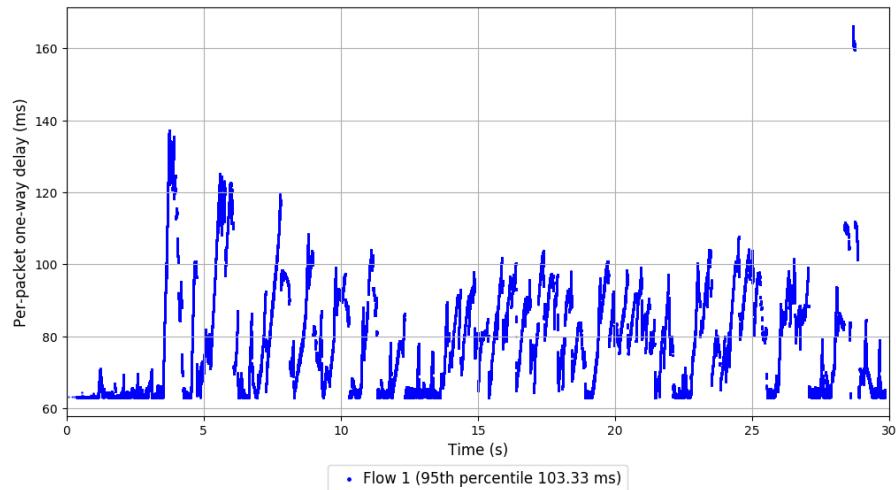
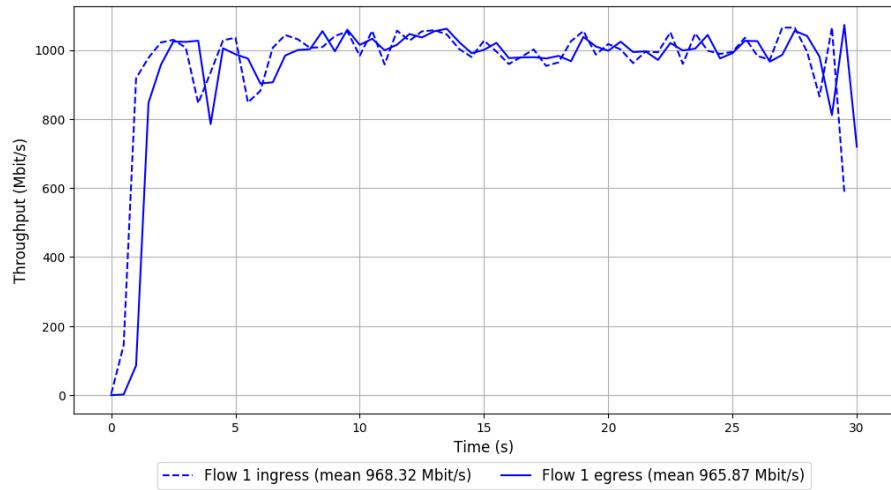


Run 4: Statistics of FillP

```
Start at: 2019-01-21 17:19:03
End at: 2019-01-21 17:19:33
Local clock offset: -0.001 ms
Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2019-01-21 19:17:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 965.87 Mbit/s
95th percentile per-packet one-way delay: 103.335 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 965.87 Mbit/s
95th percentile per-packet one-way delay: 103.335 ms
Loss rate: 0.25%
```

Run 4: Report of FillP — Data Link

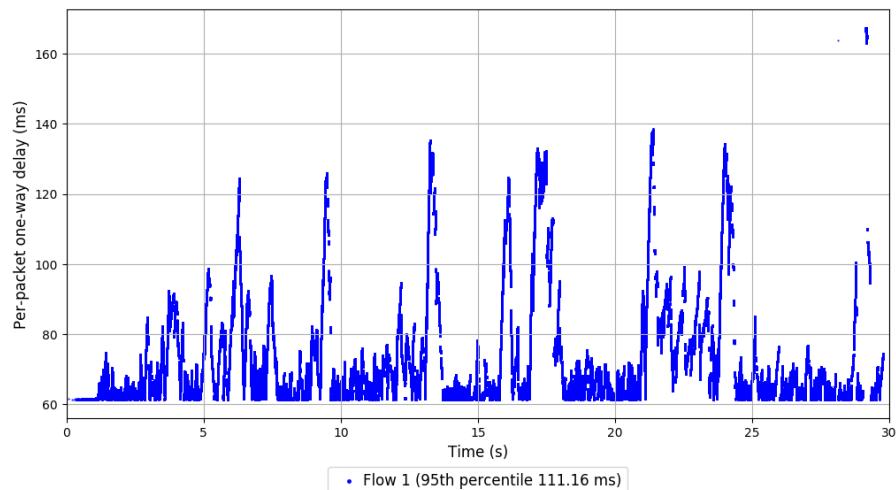
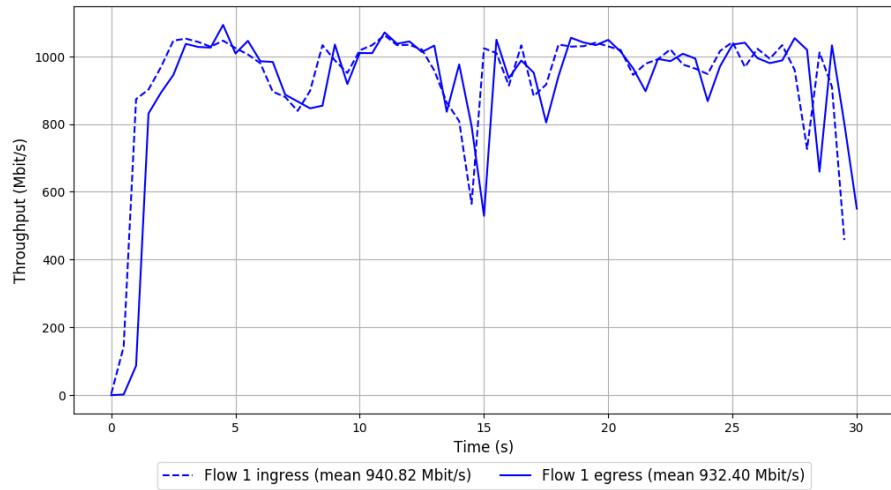


Run 5: Statistics of FillP

```
Start at: 2019-01-21 17:50:26
End at: 2019-01-21 17:50:56
Local clock offset: 0.08 ms
Remote clock offset: -1.533 ms

# Below is generated by plot.py at 2019-01-21 19:17:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 932.40 Mbit/s
95th percentile per-packet one-way delay: 111.163 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 932.40 Mbit/s
95th percentile per-packet one-way delay: 111.163 ms
Loss rate: 0.89%
```

Run 5: Report of FillP — Data Link

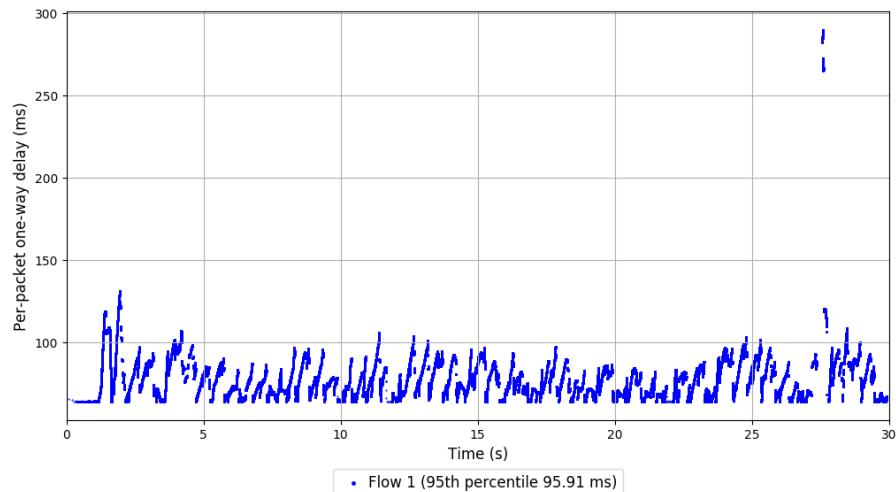
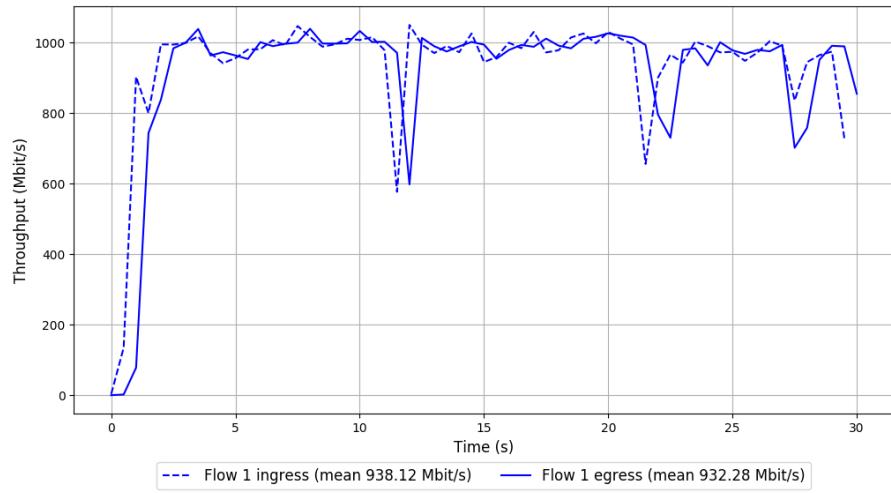


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-21 15:50:20
End at: 2019-01-21 15:50:50
Local clock offset: 0.03 ms
Remote clock offset: 0.713 ms

# Below is generated by plot.py at 2019-01-21 19:17:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 932.28 Mbit/s
95th percentile per-packet one-way delay: 95.913 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 932.28 Mbit/s
95th percentile per-packet one-way delay: 95.913 ms
Loss rate: 0.63%
```

Run 1: Report of FillP-Sheep — Data Link

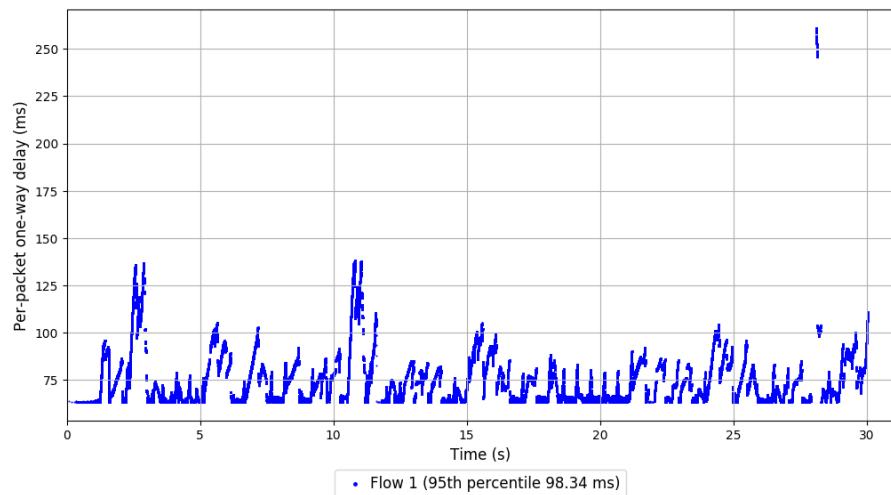
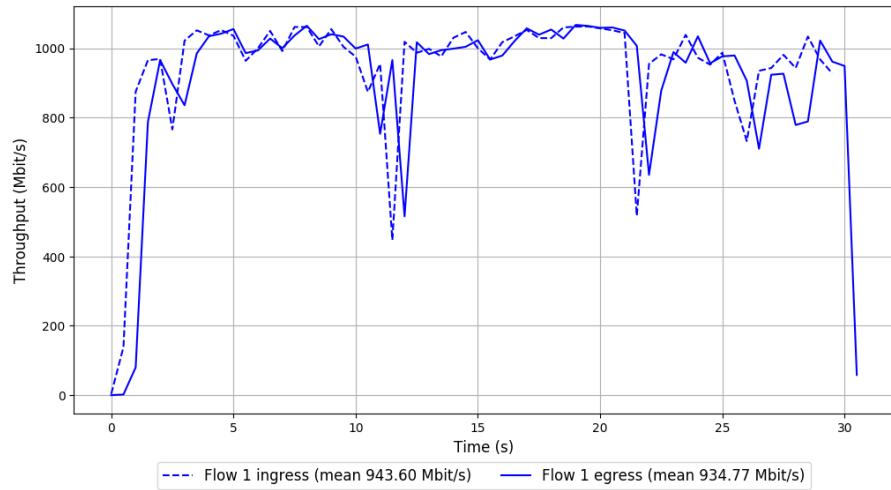


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-21 16:21:38
End at: 2019-01-21 16:22:08
Local clock offset: -0.039 ms
Remote clock offset: 0.564 ms

# Below is generated by plot.py at 2019-01-21 19:17:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 934.77 Mbit/s
95th percentile per-packet one-way delay: 98.345 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 934.77 Mbit/s
95th percentile per-packet one-way delay: 98.345 ms
Loss rate: 0.93%
```

Run 2: Report of FillP-Sheep — Data Link

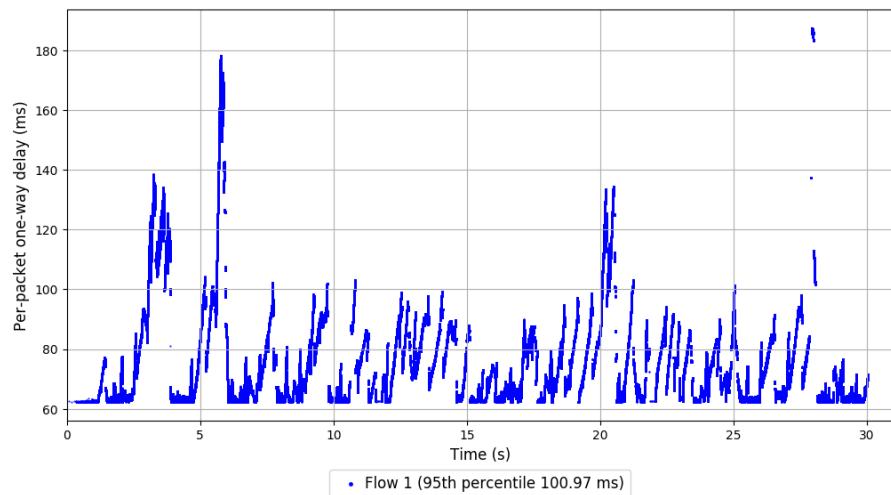
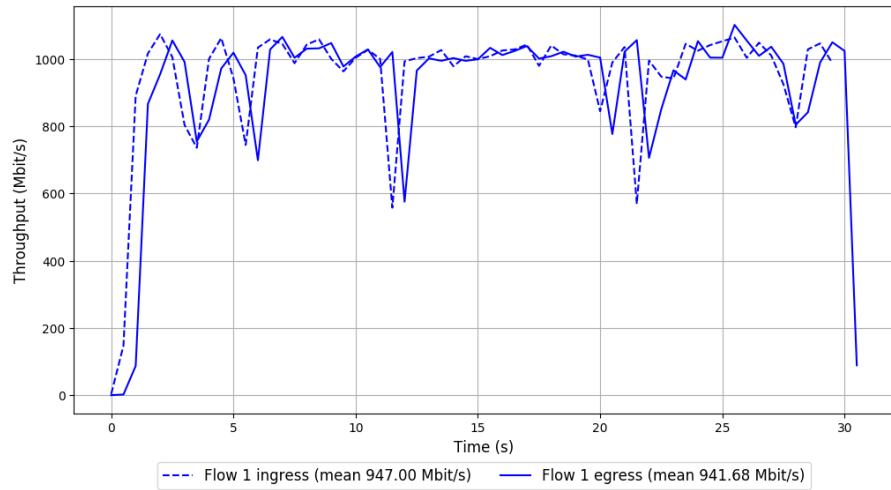


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-21 16:52:22
End at: 2019-01-21 16:52:52
Local clock offset: -0.037 ms
Remote clock offset: -0.583 ms

# Below is generated by plot.py at 2019-01-21 19:19:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 941.68 Mbit/s
95th percentile per-packet one-way delay: 100.974 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 941.68 Mbit/s
95th percentile per-packet one-way delay: 100.974 ms
Loss rate: 0.56%
```

Run 3: Report of FillP-Sheep — Data Link

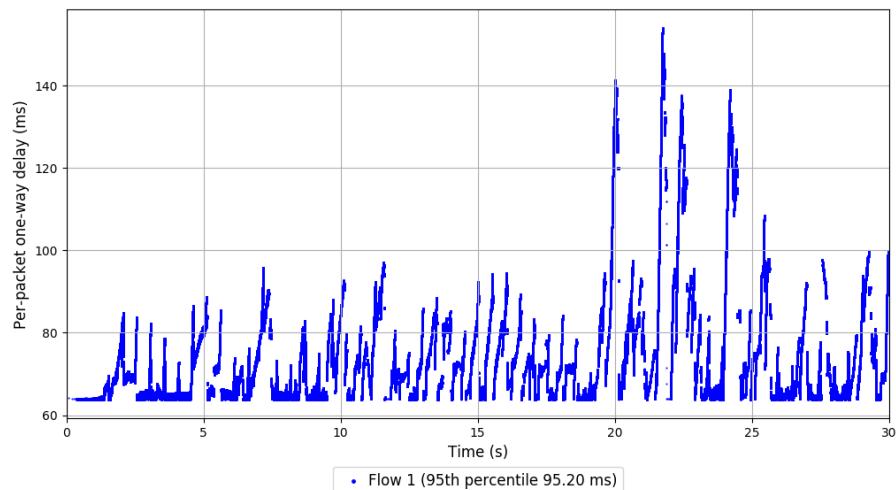
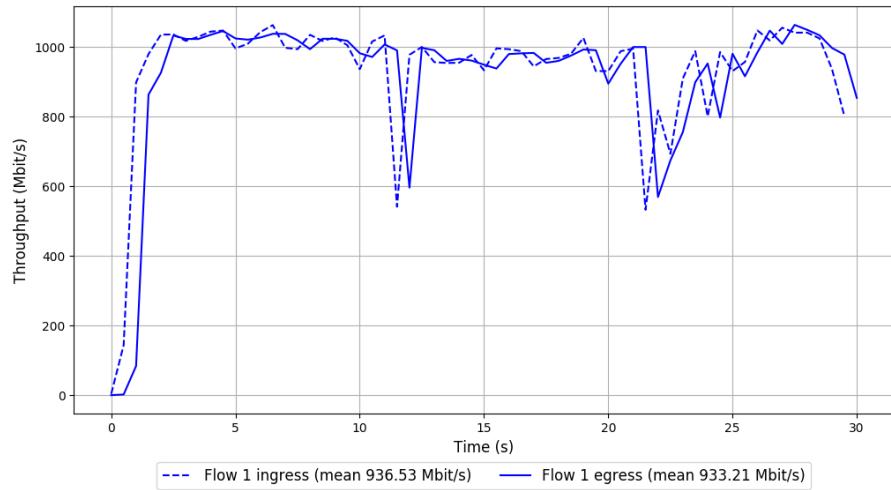


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-21 17:23:27
End at: 2019-01-21 17:23:57
Local clock offset: 0.08 ms
Remote clock offset: 1.103 ms

# Below is generated by plot.py at 2019-01-21 19:31:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 933.21 Mbit/s
95th percentile per-packet one-way delay: 95.201 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 933.21 Mbit/s
95th percentile per-packet one-way delay: 95.201 ms
Loss rate: 0.35%
```

Run 4: Report of FillP-Sheep — Data Link

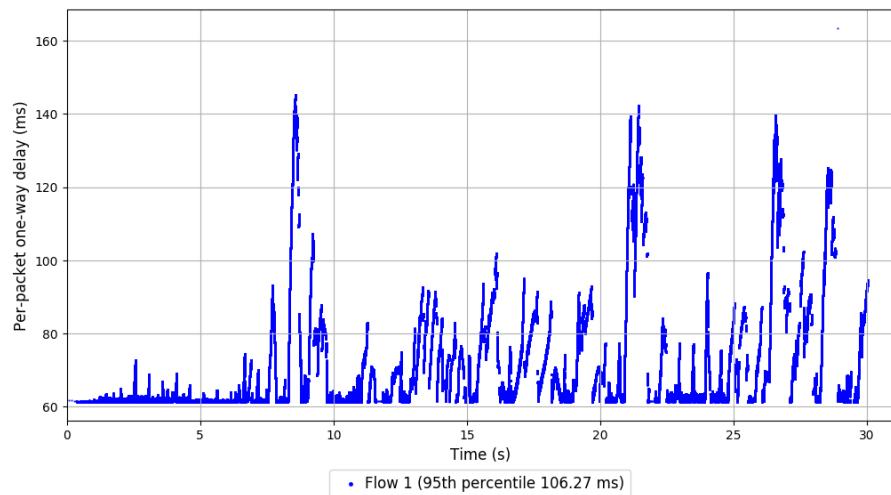
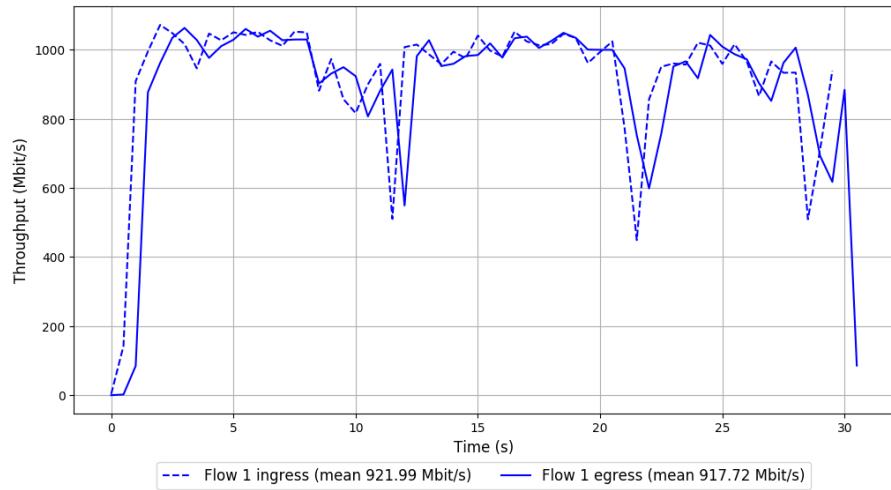


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-21 17:54:49
End at: 2019-01-21 17:55:19
Local clock offset: -0.04 ms
Remote clock offset: -1.401 ms

# Below is generated by plot.py at 2019-01-21 19:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 917.72 Mbit/s
95th percentile per-packet one-way delay: 106.270 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 917.72 Mbit/s
95th percentile per-packet one-way delay: 106.270 ms
Loss rate: 0.46%
```

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

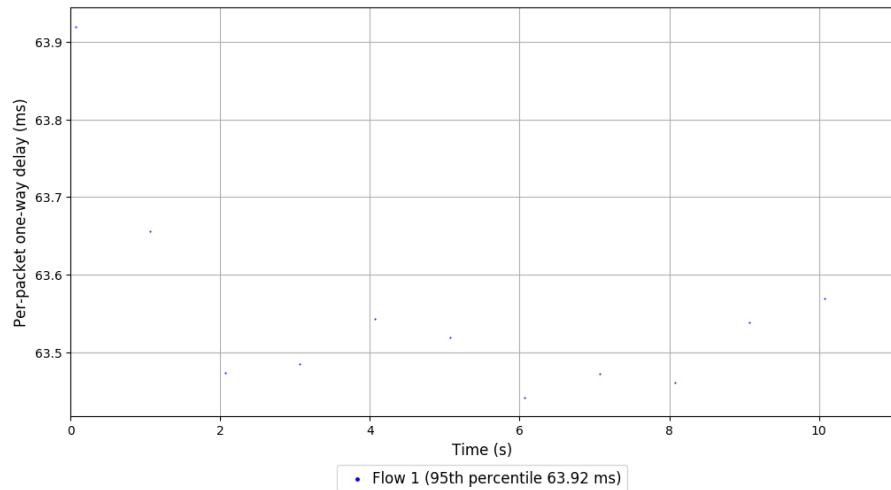
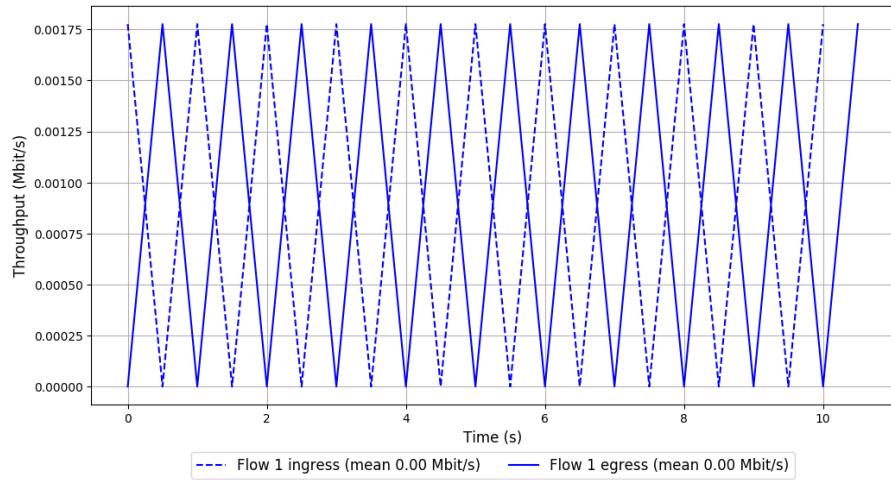
Start at: 2019-01-21 15:49:12

End at: 2019-01-21 15:49:42

Local clock offset: 0.134 ms

Remote clock offset: 0.7 ms

Run 1: Report of Indigo — Data Link

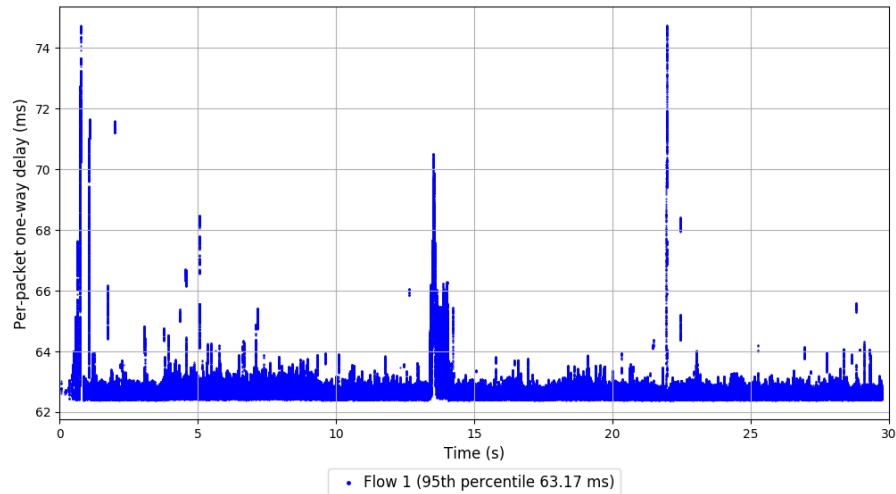
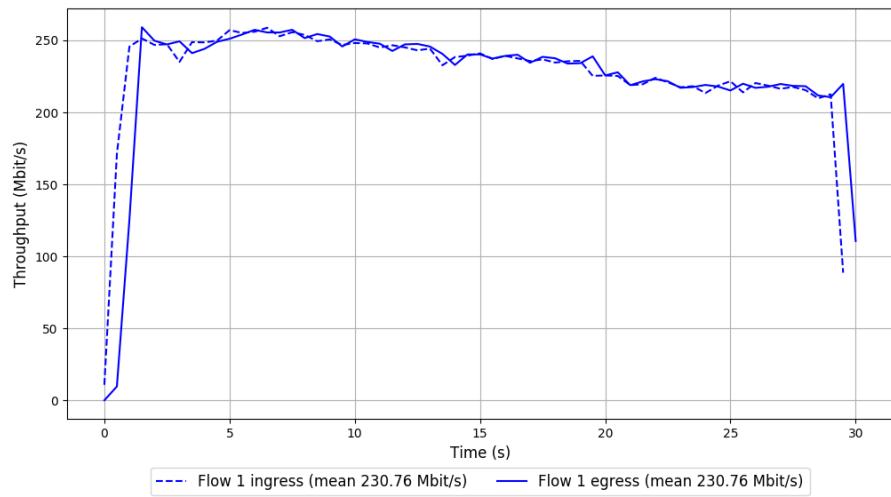


Run 2: Statistics of Indigo

```
Start at: 2019-01-21 16:20:08
End at: 2019-01-21 16:20:39
Local clock offset: -0.024 ms
Remote clock offset: -0.475 ms

# Below is generated by plot.py at 2019-01-21 19:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.76 Mbit/s
95th percentile per-packet one-way delay: 63.170 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.76 Mbit/s
95th percentile per-packet one-way delay: 63.170 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

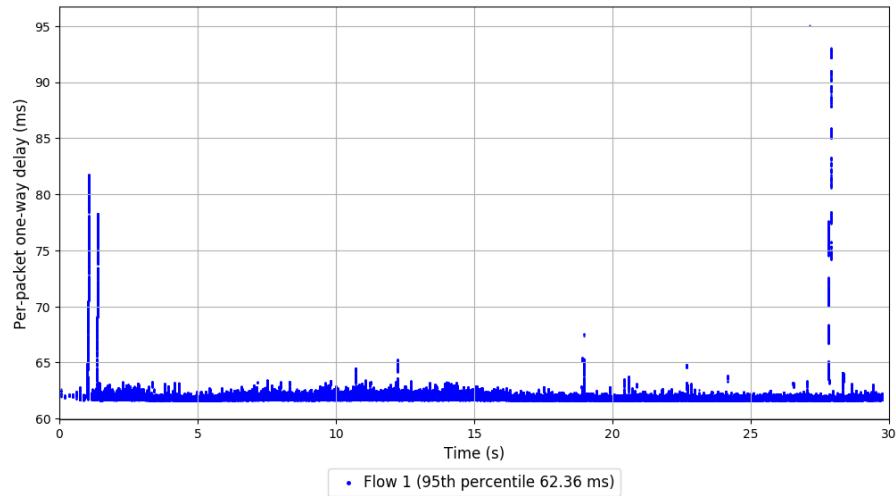
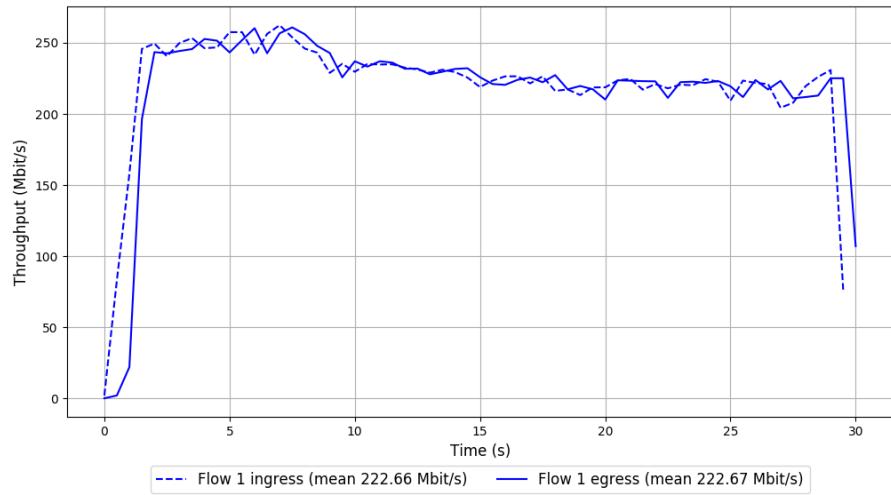


Run 3: Statistics of Indigo

```
Start at: 2019-01-21 16:50:53
End at: 2019-01-21 16:51:23
Local clock offset: -0.038 ms
Remote clock offset: -1.338 ms

# Below is generated by plot.py at 2019-01-21 19:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.67 Mbit/s
95th percentile per-packet one-way delay: 62.359 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.67 Mbit/s
95th percentile per-packet one-way delay: 62.359 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

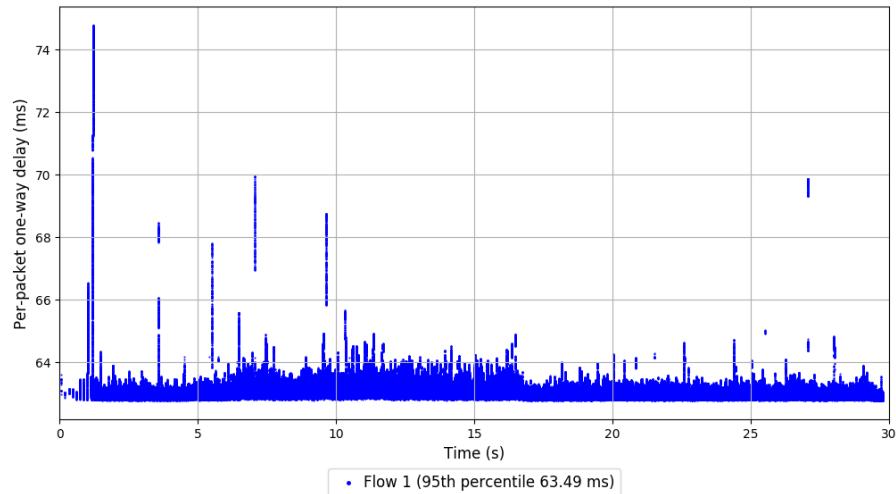
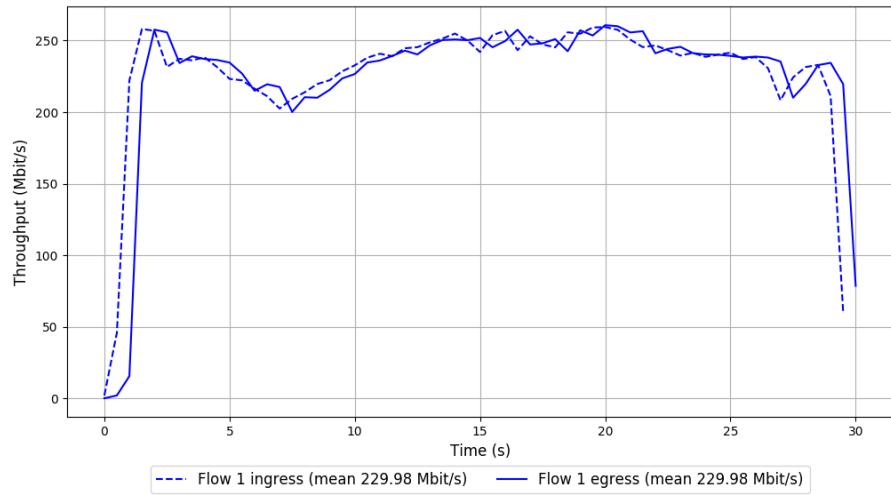


Run 4: Statistics of Indigo

```
Start at: 2019-01-21 17:21:58
End at: 2019-01-21 17:22:28
Local clock offset: -0.082 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2019-01-21 19:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.98 Mbit/s
95th percentile per-packet one-way delay: 63.494 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.98 Mbit/s
95th percentile per-packet one-way delay: 63.494 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

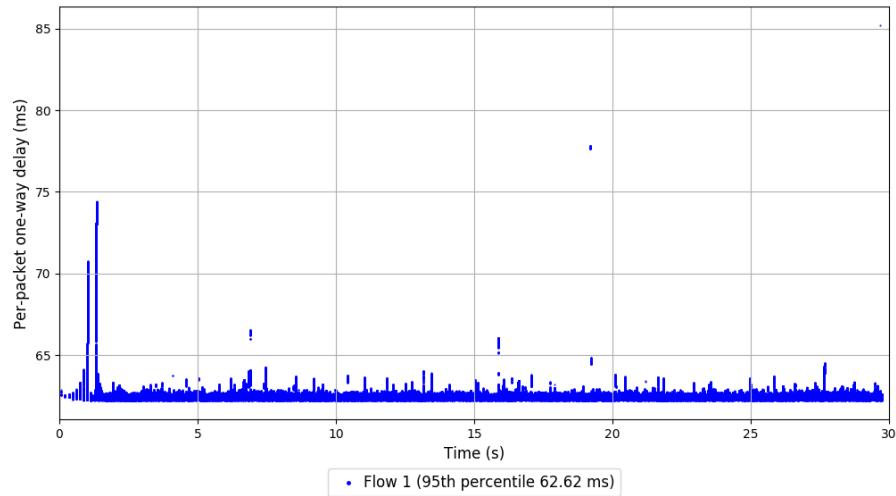
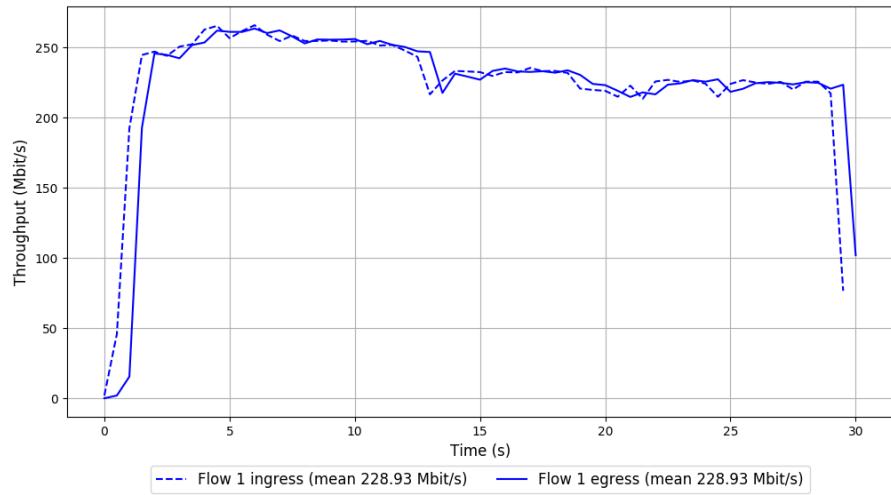


Run 5: Statistics of Indigo

```
Start at: 2019-01-21 17:53:20
End at: 2019-01-21 17:53:50
Local clock offset: -0.034 ms
Remote clock offset: -0.64 ms

# Below is generated by plot.py at 2019-01-21 19:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.93 Mbit/s
95th percentile per-packet one-way delay: 62.619 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.93 Mbit/s
95th percentile per-packet one-way delay: 62.619 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

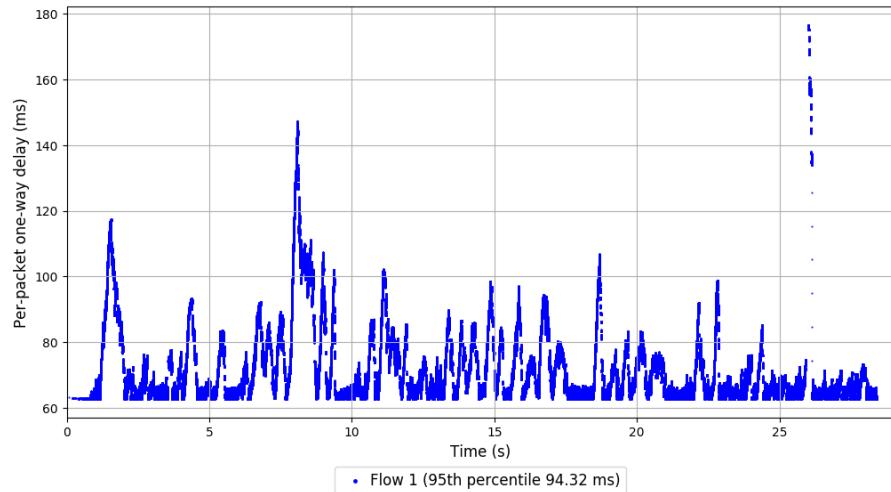
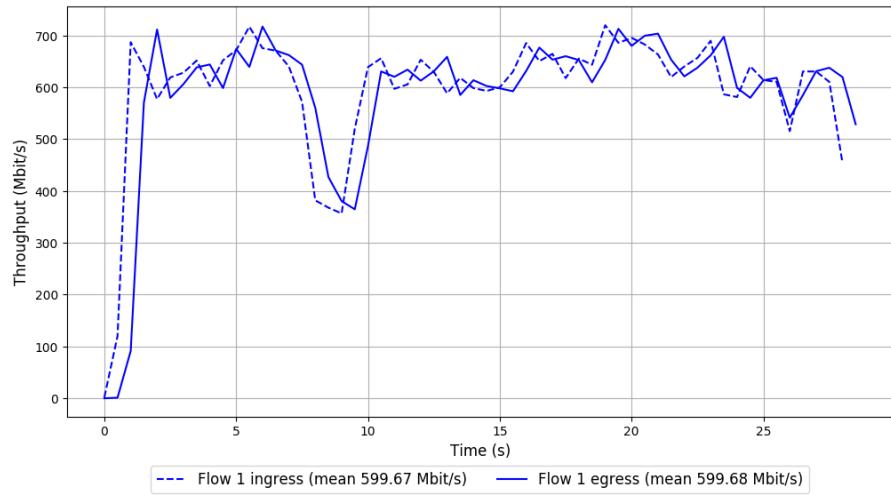


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 16:04:10
End at: 2019-01-21 16:04:40
Local clock offset: 0.026 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-01-21 19:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 599.68 Mbit/s
95th percentile per-packet one-way delay: 94.319 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 599.68 Mbit/s
95th percentile per-packet one-way delay: 94.319 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link

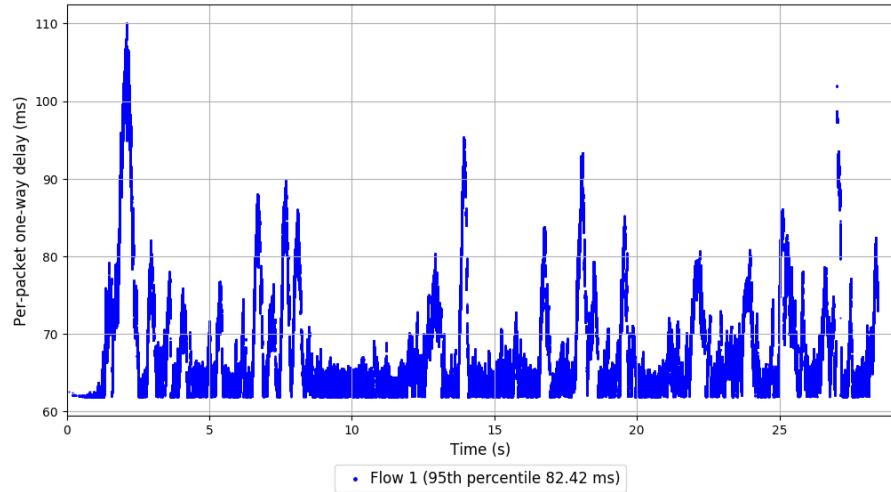
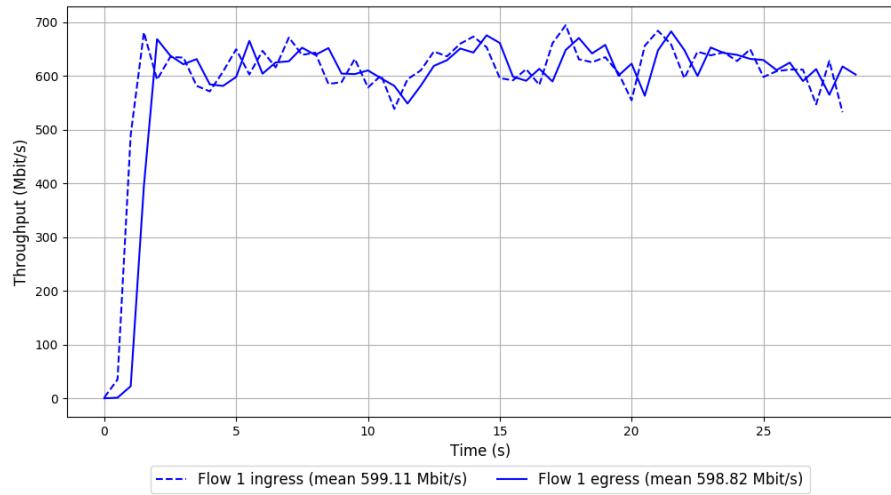


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 16:34:59
End at: 2019-01-21 16:35:30
Local clock offset: -0.027 ms
Remote clock offset: -0.718 ms

# Below is generated by plot.py at 2019-01-21 19:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 598.82 Mbit/s
95th percentile per-packet one-way delay: 82.415 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 598.82 Mbit/s
95th percentile per-packet one-way delay: 82.415 ms
Loss rate: 0.05%
```

Run 2: Report of Indigo-MusesC3 — Data Link

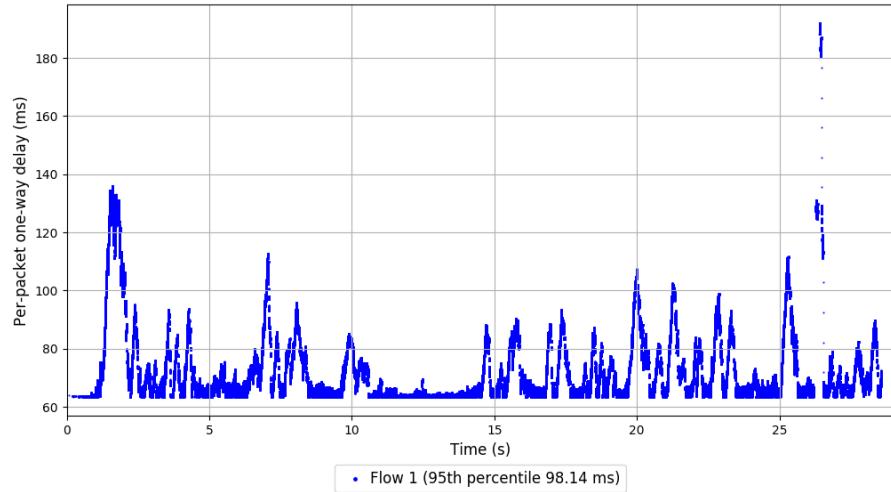
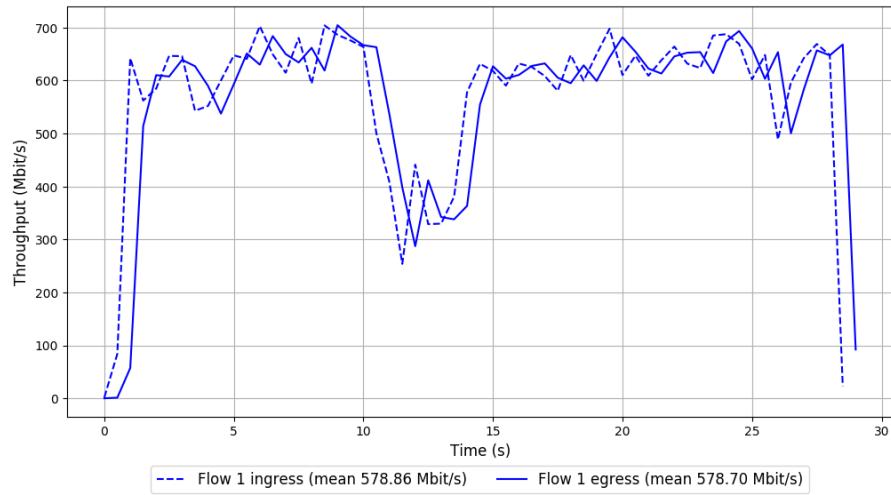


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 17:06:04
End at: 2019-01-21 17:06:34
Local clock offset: -0.085 ms
Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2019-01-21 19:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 578.70 Mbit/s
95th percentile per-packet one-way delay: 98.138 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 578.70 Mbit/s
95th percentile per-packet one-way delay: 98.138 ms
Loss rate: 0.03%
```

Run 3: Report of Indigo-MusesC3 — Data Link

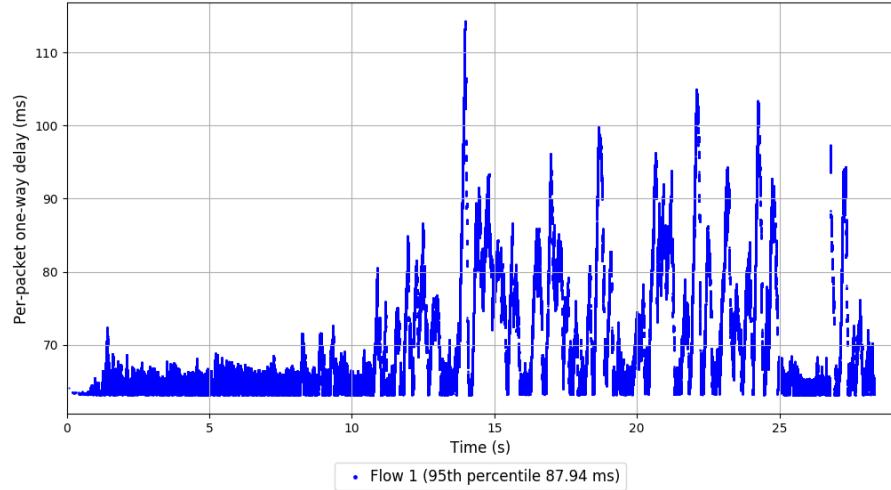
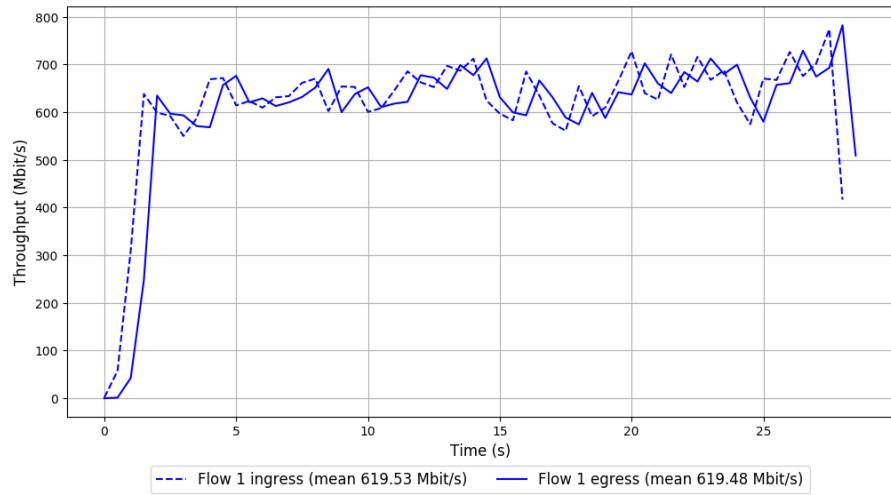


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 17:37:21
End at: 2019-01-21 17:37:51
Local clock offset: -0.066 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-01-21 19:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 619.48 Mbit/s
95th percentile per-packet one-way delay: 87.944 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 619.48 Mbit/s
95th percentile per-packet one-way delay: 87.944 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC3 — Data Link

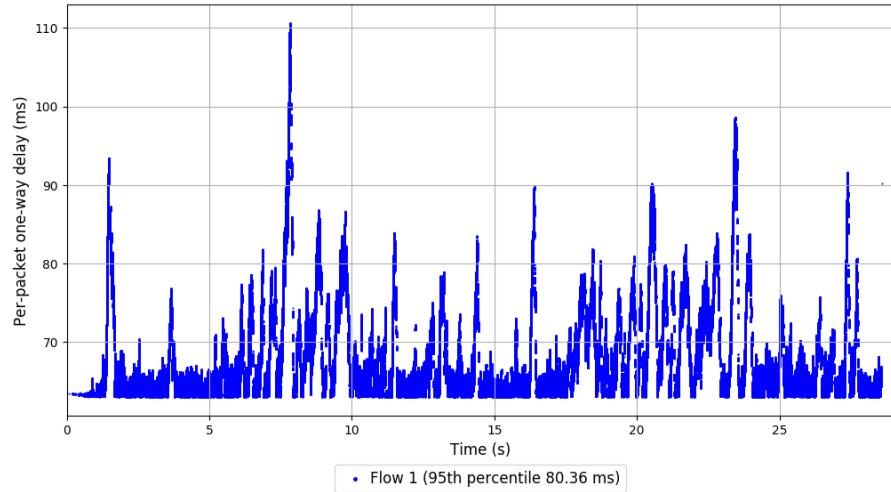
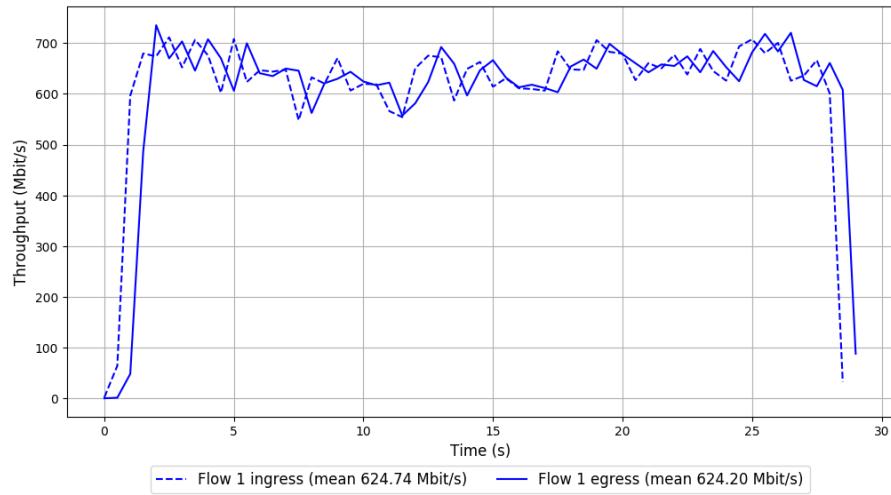


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 18:08:50
End at: 2019-01-21 18:09:20
Local clock offset: -0.052 ms
Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2019-01-21 19:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 624.20 Mbit/s
95th percentile per-packet one-way delay: 80.362 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 624.20 Mbit/s
95th percentile per-packet one-way delay: 80.362 ms
Loss rate: 0.08%
```

Run 5: Report of Indigo-MusesC3 — Data Link

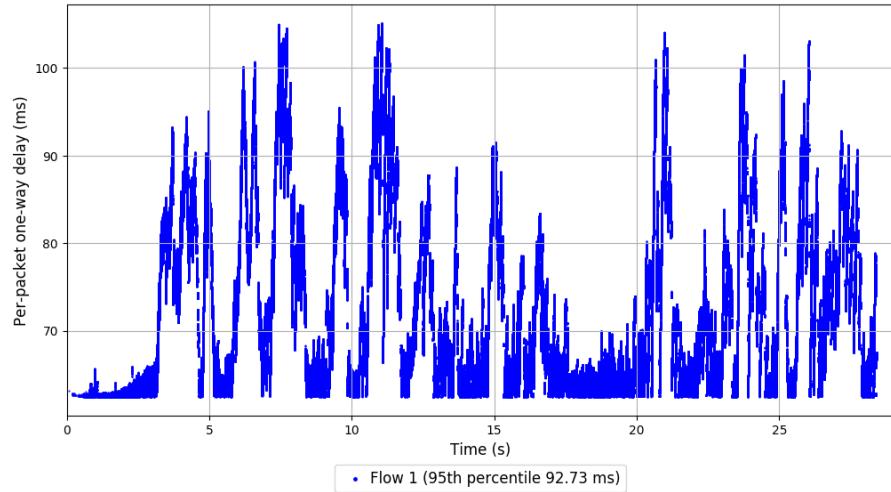
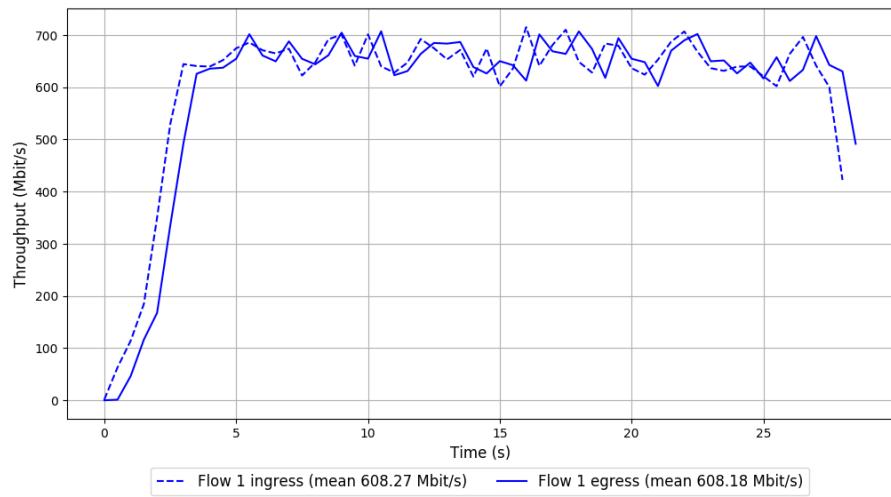


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 16:08:25
End at: 2019-01-21 16:08:55
Local clock offset: 0.045 ms
Remote clock offset: -0.295 ms

# Below is generated by plot.py at 2019-01-21 19:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.18 Mbit/s
95th percentile per-packet one-way delay: 92.733 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 608.18 Mbit/s
95th percentile per-packet one-way delay: 92.733 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC5 — Data Link

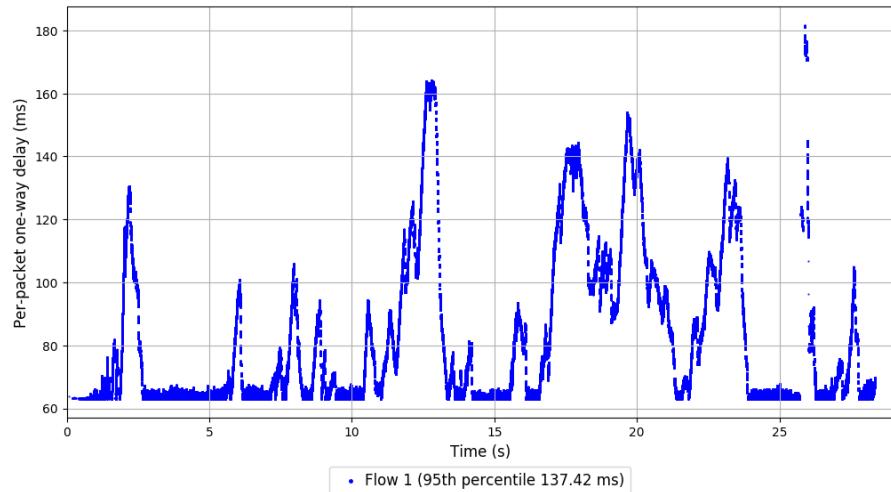
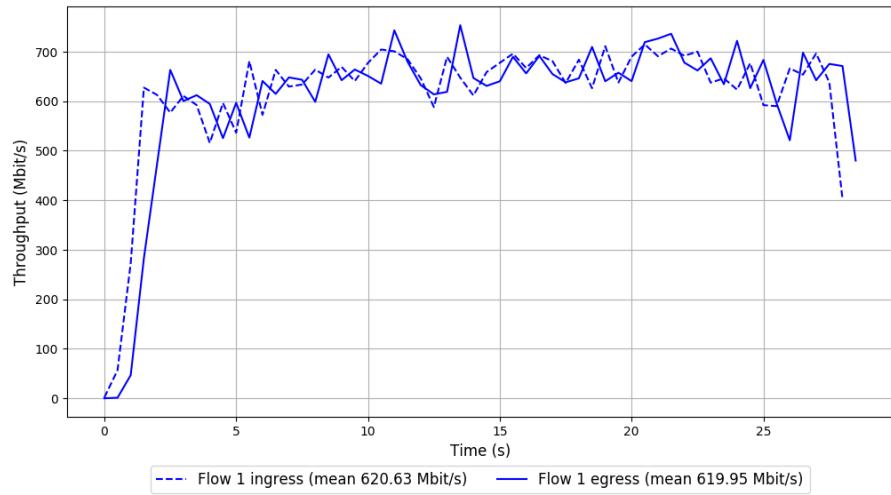


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 16:39:13
End at: 2019-01-21 16:39:43
Local clock offset: 0.021 ms
Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-01-21 19:43:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 619.95 Mbit/s
95th percentile per-packet one-way delay: 137.418 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 619.95 Mbit/s
95th percentile per-packet one-way delay: 137.418 ms
Loss rate: 0.11%
```

Run 2: Report of Indigo-MusesC5 — Data Link

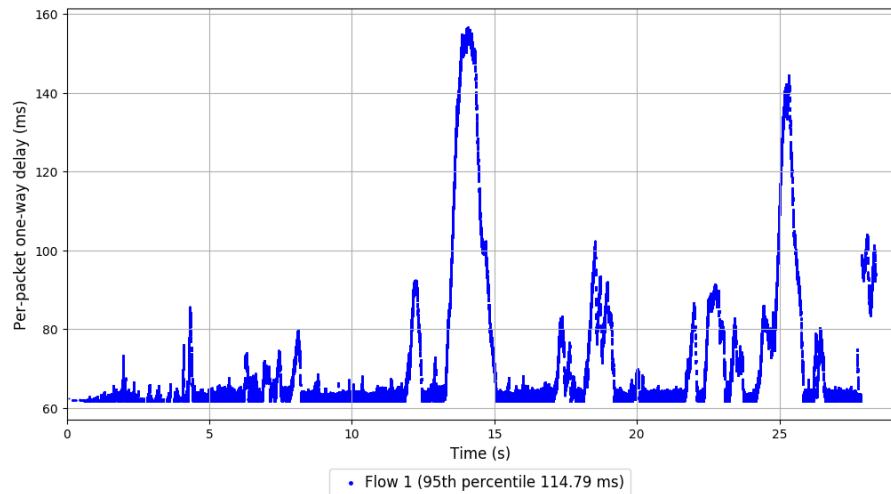
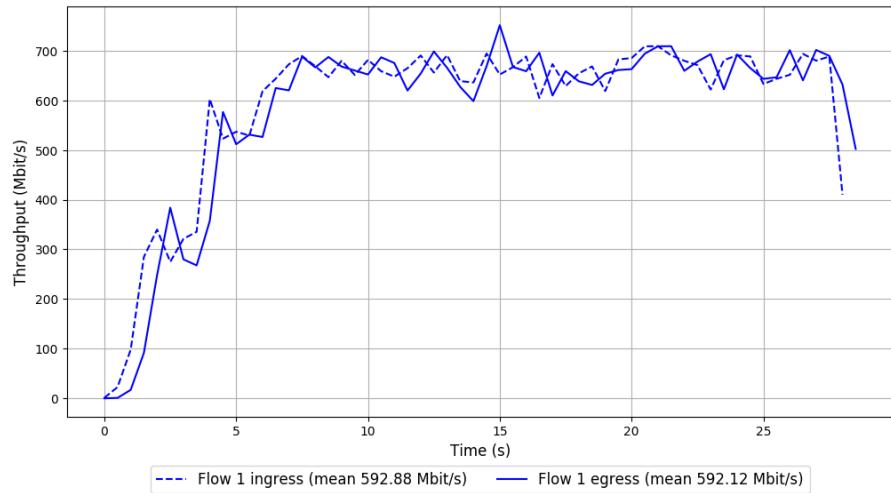


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 17:10:17
End at: 2019-01-21 17:10:47
Local clock offset: -0.099 ms
Remote clock offset: -0.934 ms

# Below is generated by plot.py at 2019-01-21 19:45:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 592.12 Mbit/s
95th percentile per-packet one-way delay: 114.791 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 592.12 Mbit/s
95th percentile per-packet one-way delay: 114.791 ms
Loss rate: 0.13%
```

Run 3: Report of Indigo-MusesC5 — Data Link

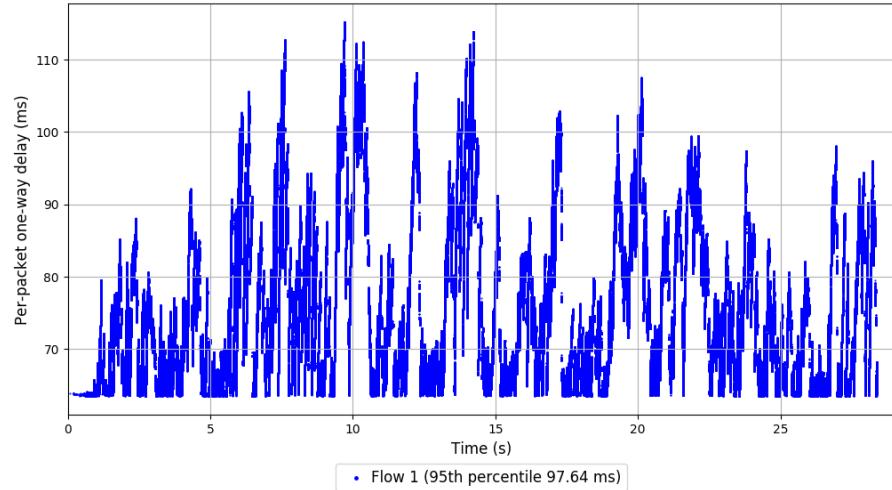
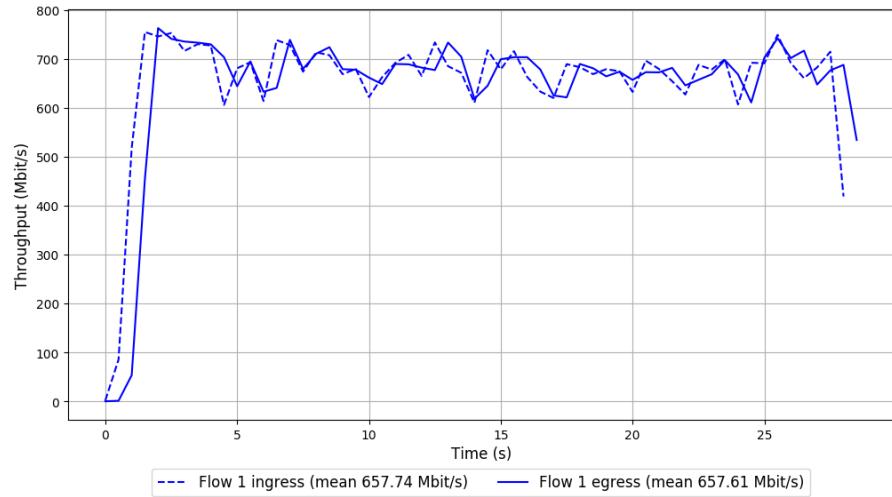


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 17:41:39
End at: 2019-01-21 17:42:09
Local clock offset: 0.048 ms
Remote clock offset: 0.78 ms

# Below is generated by plot.py at 2019-01-21 19:48:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 657.61 Mbit/s
95th percentile per-packet one-way delay: 97.636 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 657.61 Mbit/s
95th percentile per-packet one-way delay: 97.636 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC5 — Data Link

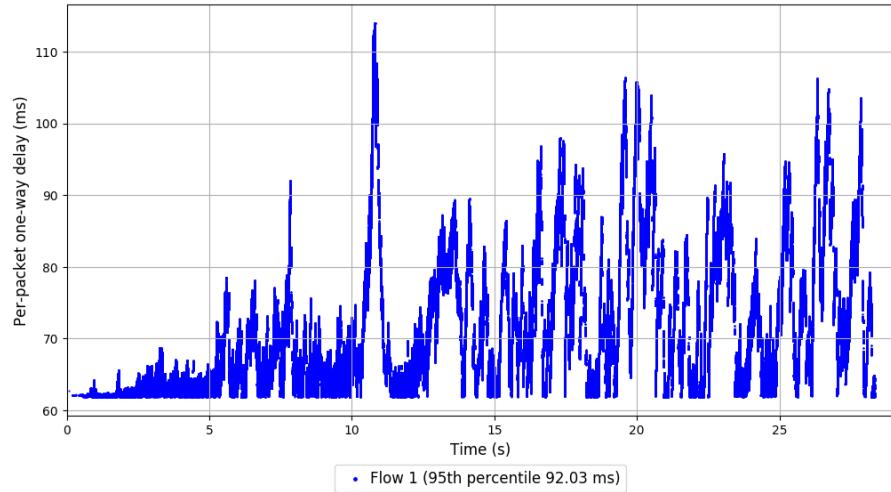
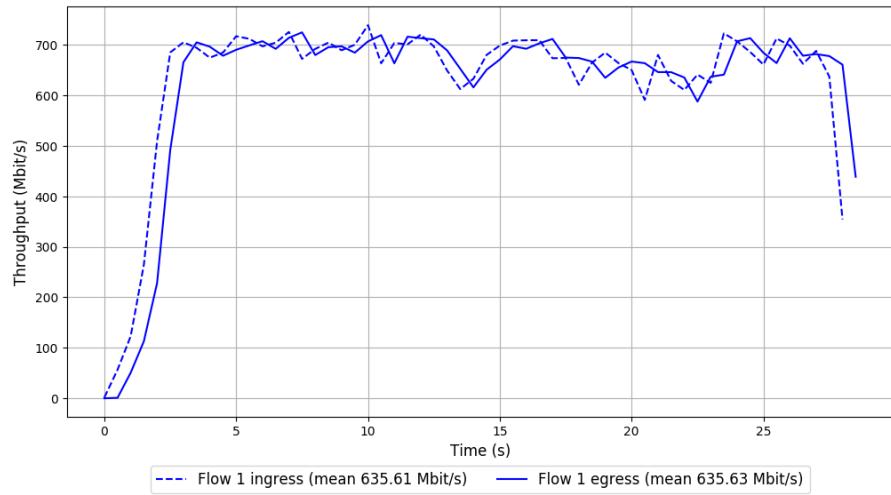


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 18:13:06
End at: 2019-01-21 18:13:36
Local clock offset: -0.084 ms
Remote clock offset: -1.366 ms

# Below is generated by plot.py at 2019-01-21 19:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 635.63 Mbit/s
95th percentile per-packet one-way delay: 92.029 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 635.63 Mbit/s
95th percentile per-packet one-way delay: 92.029 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC5 — Data Link

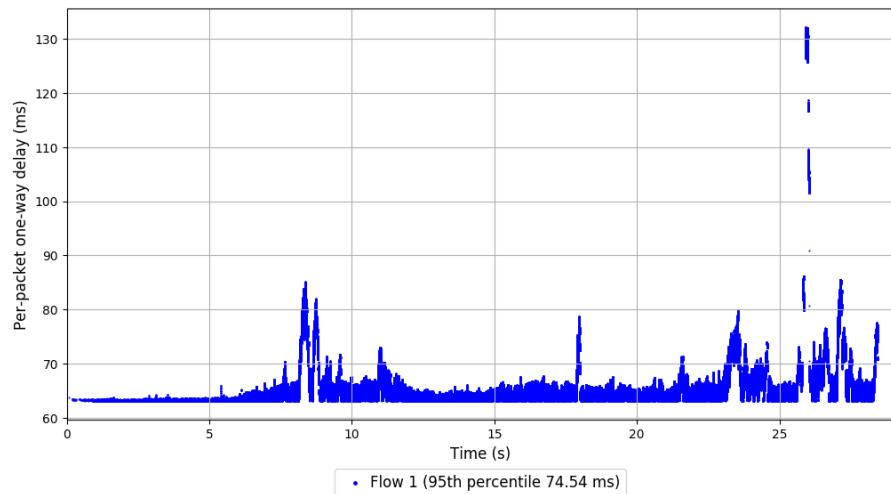
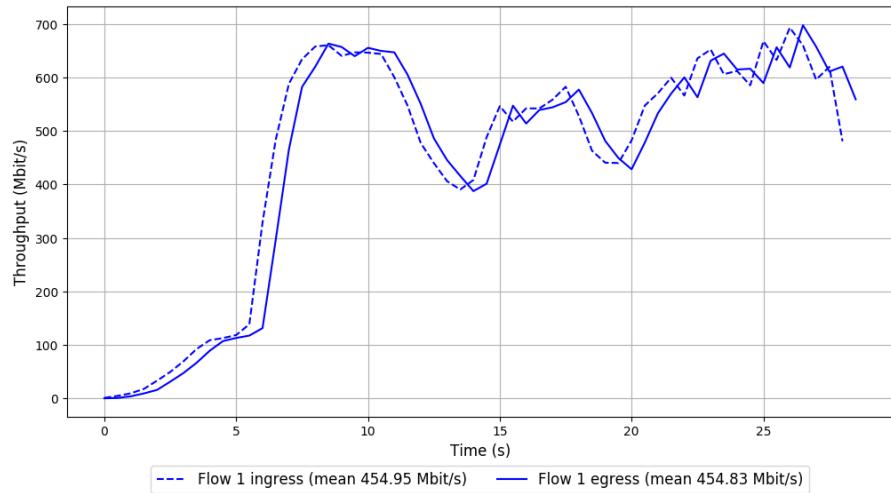


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 16:02:40
End at: 2019-01-21 16:03:10
Local clock offset: 0.018 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-01-21 19:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 454.83 Mbit/s
95th percentile per-packet one-way delay: 74.542 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 454.83 Mbit/s
95th percentile per-packet one-way delay: 74.542 ms
Loss rate: 0.03%
```

Run 1: Report of Indigo-MusesD — Data Link

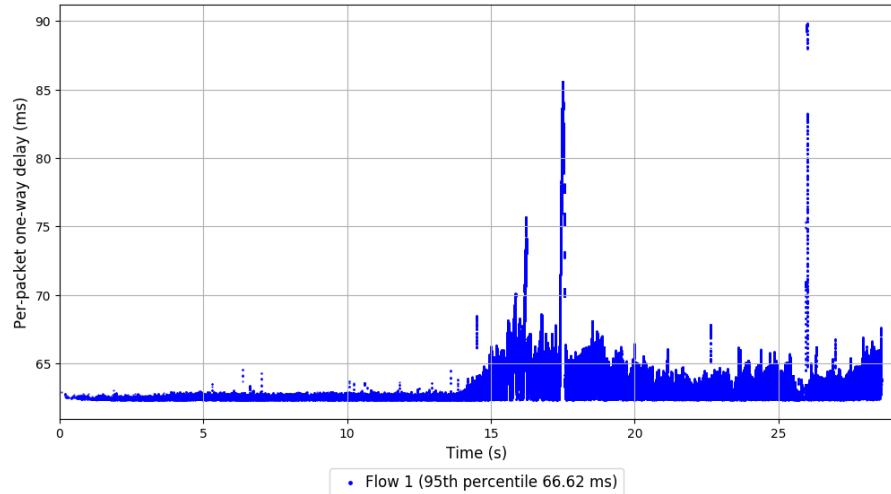
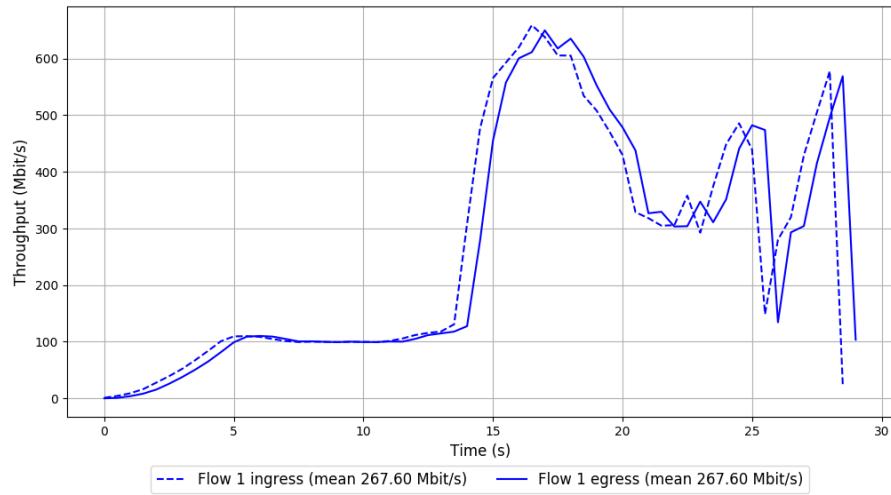


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 16:33:38
End at: 2019-01-21 16:34:08
Local clock offset: 0.021 ms
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2019-01-21 19:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.60 Mbit/s
95th percentile per-packet one-way delay: 66.616 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 267.60 Mbit/s
95th percentile per-packet one-way delay: 66.616 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesD — Data Link

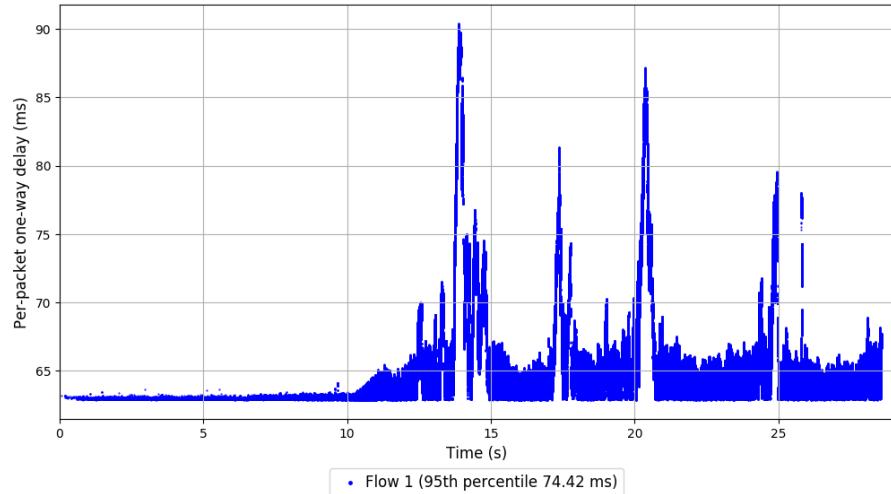
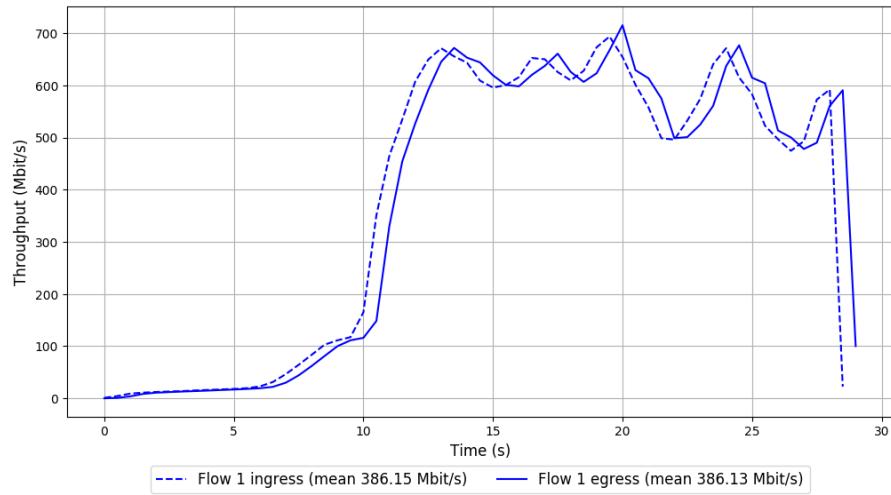


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 17:04:38
End at: 2019-01-21 17:05:08
Local clock offset: -0.072 ms
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-01-21 19:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 386.13 Mbit/s
95th percentile per-packet one-way delay: 74.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 386.13 Mbit/s
95th percentile per-packet one-way delay: 74.421 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesD — Data Link

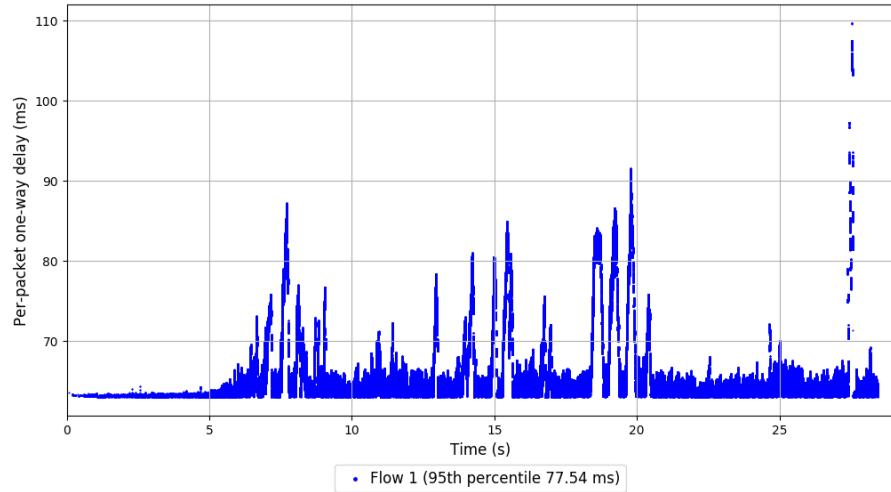
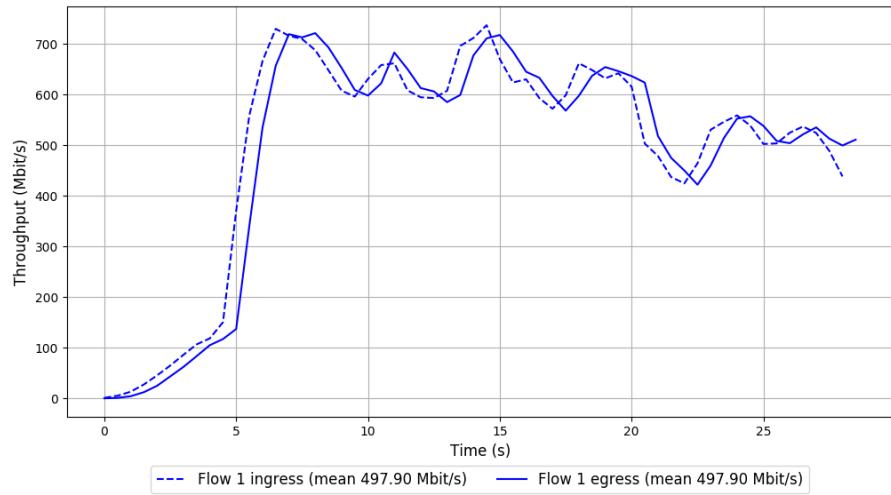


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 17:35:48
End at: 2019-01-21 17:36:18
Local clock offset: -0.027 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-01-21 19:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 497.90 Mbit/s
95th percentile per-packet one-way delay: 77.541 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 497.90 Mbit/s
95th percentile per-packet one-way delay: 77.541 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesD — Data Link

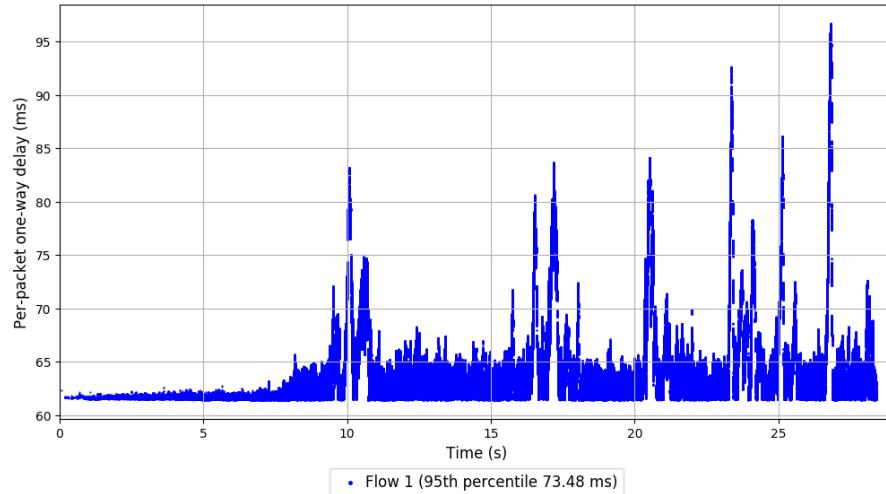
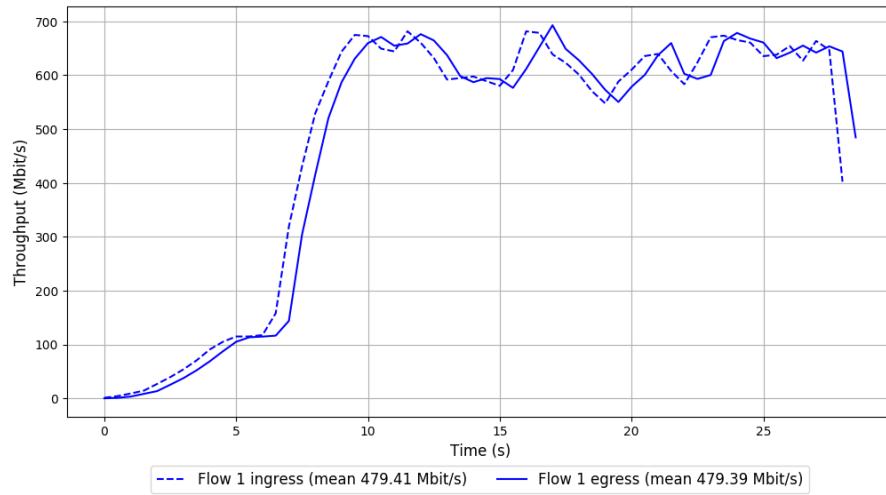


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 18:07:19
End at: 2019-01-21 18:07:49
Local clock offset: -0.067 ms
Remote clock offset: -1.37 ms

# Below is generated by plot.py at 2019-01-21 19:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 479.39 Mbit/s
95th percentile per-packet one-way delay: 73.479 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 479.39 Mbit/s
95th percentile per-packet one-way delay: 73.479 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesD — Data Link

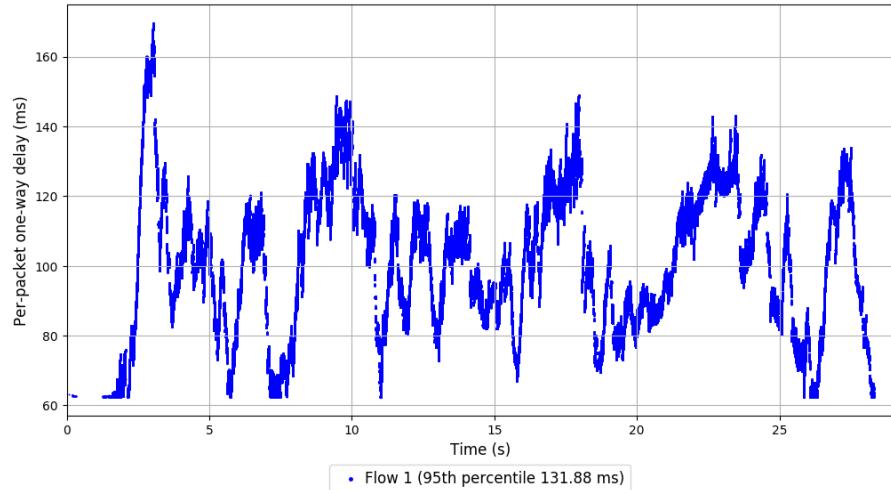
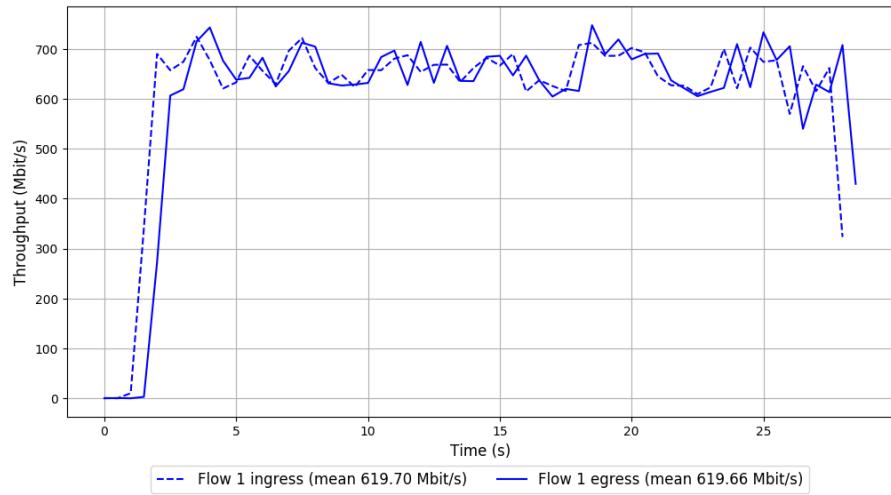


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 15:58:18
End at: 2019-01-21 15:58:48
Local clock offset: -0.004 ms
Remote clock offset: -0.369 ms

# Below is generated by plot.py at 2019-01-21 19:59:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 619.66 Mbit/s
95th percentile per-packet one-way delay: 131.880 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 619.66 Mbit/s
95th percentile per-packet one-way delay: 131.880 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesT — Data Link

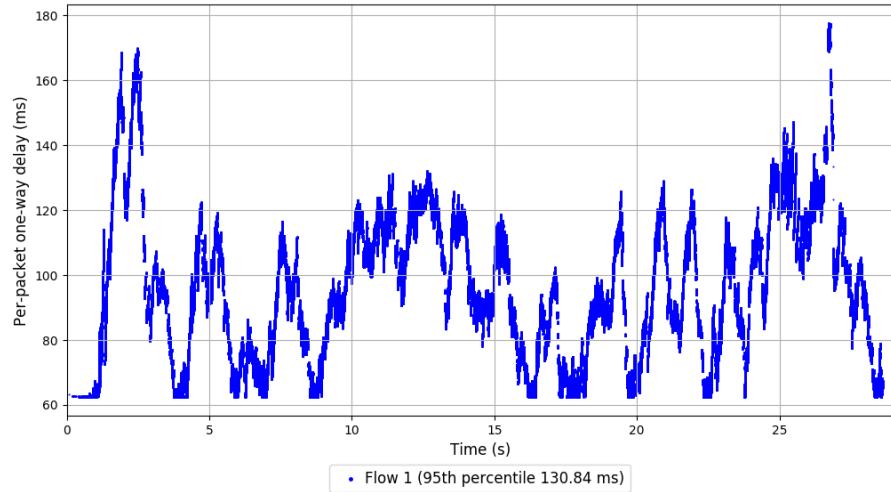
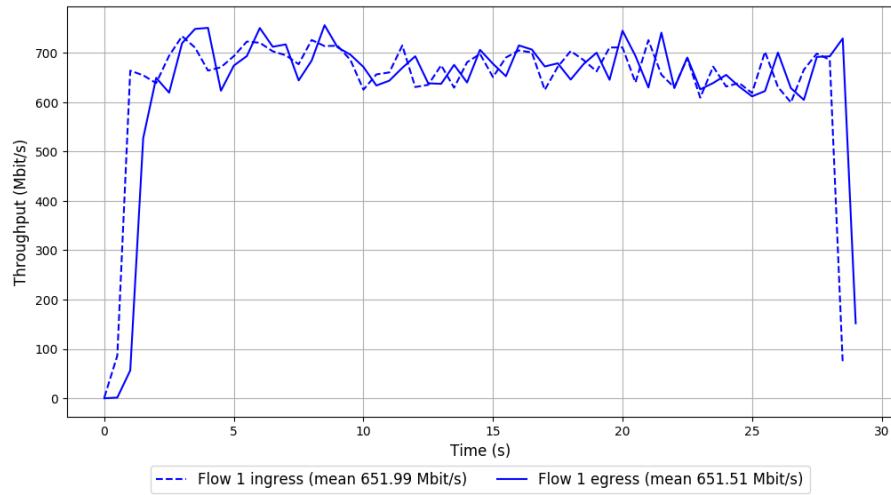


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 16:29:18
End at: 2019-01-21 16:29:48
Local clock offset: 0.158 ms
Remote clock offset: -0.578 ms

# Below is generated by plot.py at 2019-01-21 20:00:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 651.51 Mbit/s
95th percentile per-packet one-way delay: 130.838 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 651.51 Mbit/s
95th percentile per-packet one-way delay: 130.838 ms
Loss rate: 0.07%
```

Run 2: Report of Indigo-MusesT — Data Link

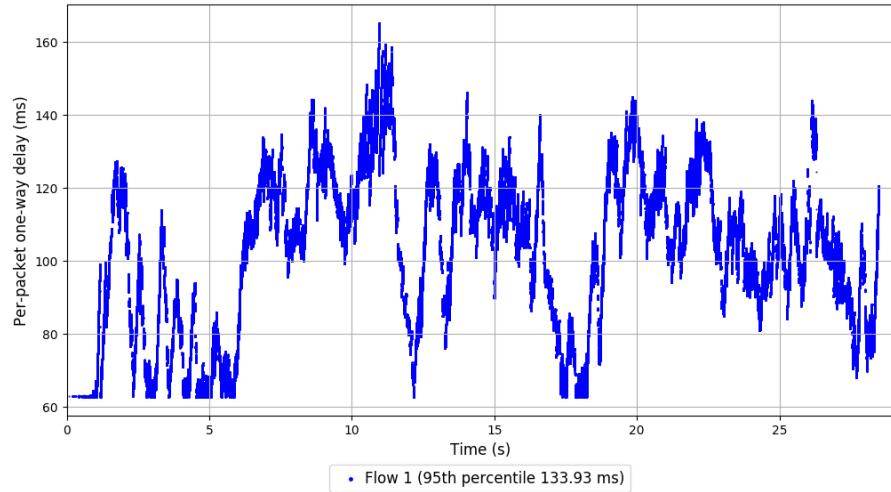
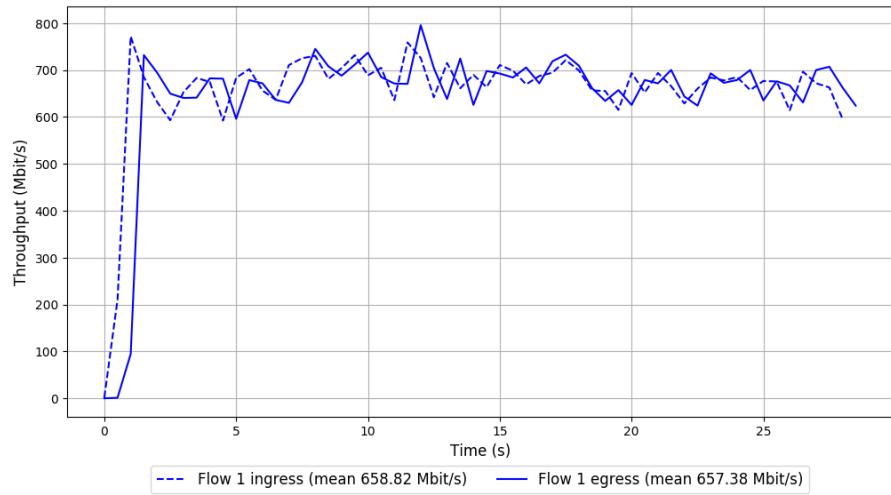


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 17:00:15
End at: 2019-01-21 17:00:45
Local clock offset: -0.061 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-01-21 20:02:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 657.38 Mbit/s
95th percentile per-packet one-way delay: 133.931 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 657.38 Mbit/s
95th percentile per-packet one-way delay: 133.931 ms
Loss rate: 0.21%
```

Run 3: Report of Indigo-MusesT — Data Link

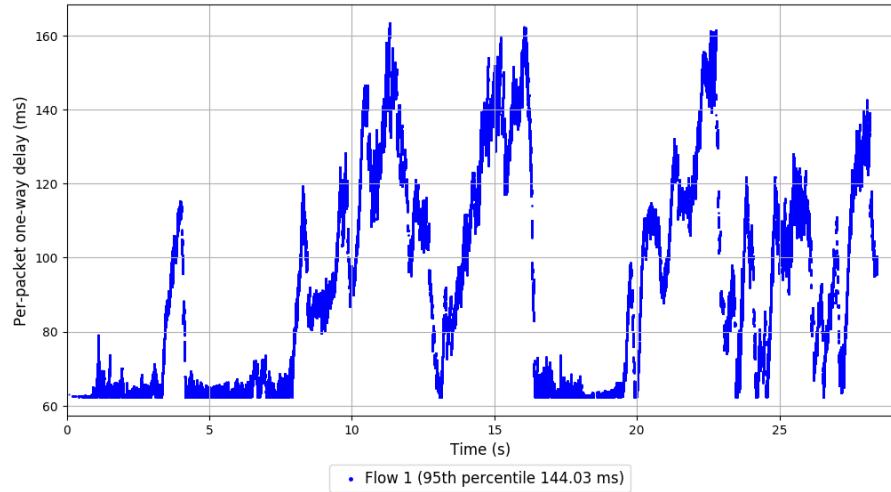
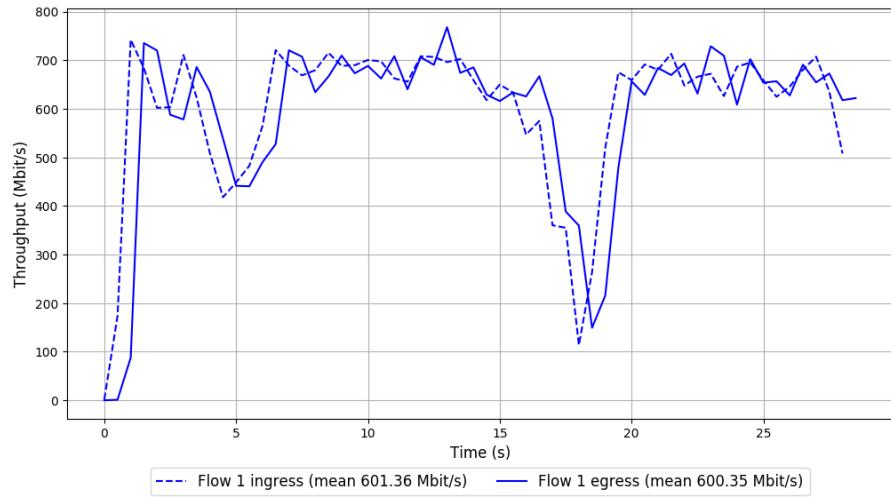


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 17:31:25
End at: 2019-01-21 17:31:55
Local clock offset: -0.033 ms
Remote clock offset: -0.312 ms

# Below is generated by plot.py at 2019-01-21 20:02:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 600.35 Mbit/s
95th percentile per-packet one-way delay: 144.030 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 600.35 Mbit/s
95th percentile per-packet one-way delay: 144.030 ms
Loss rate: 0.17%
```

Run 4: Report of Indigo-MusesT — Data Link

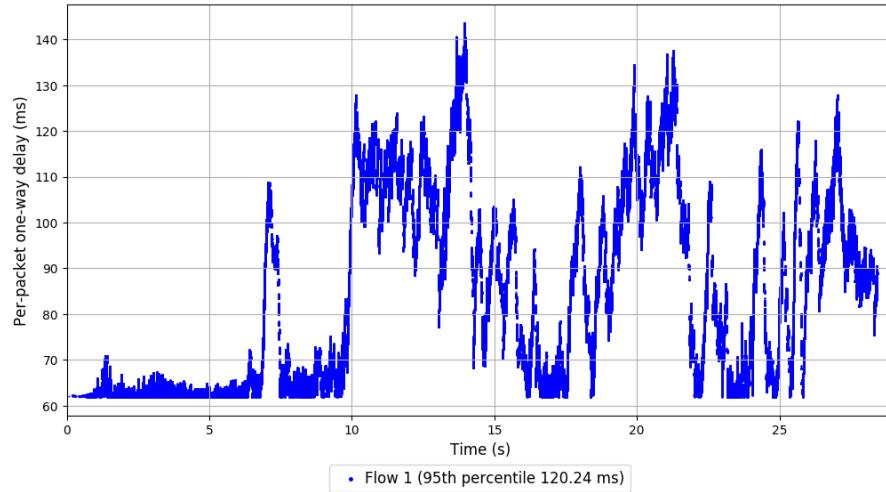
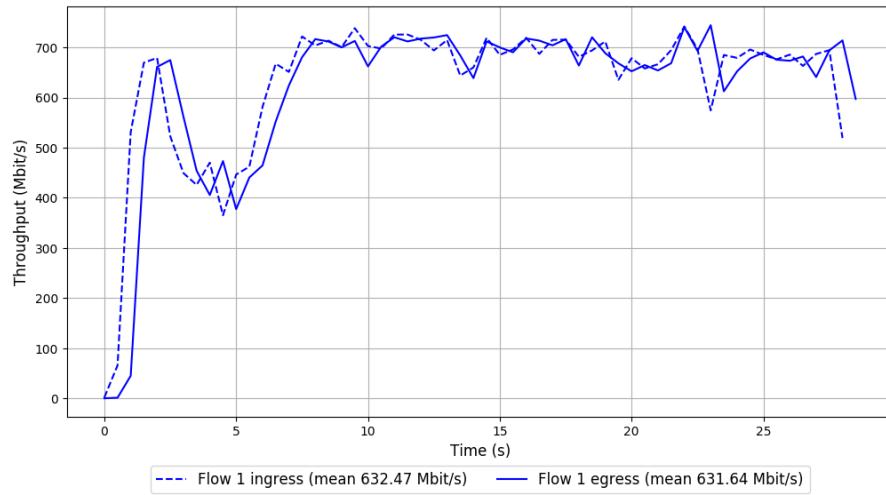


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 18:02:51
End at: 2019-01-21 18:03:21
Local clock offset: 0.07 ms
Remote clock offset: -0.68 ms

# Below is generated by plot.py at 2019-01-21 20:03:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 631.64 Mbit/s
95th percentile per-packet one-way delay: 120.238 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 631.64 Mbit/s
95th percentile per-packet one-way delay: 120.238 ms
Loss rate: 0.13%
```

Run 5: Report of Indigo-MusesT — Data Link

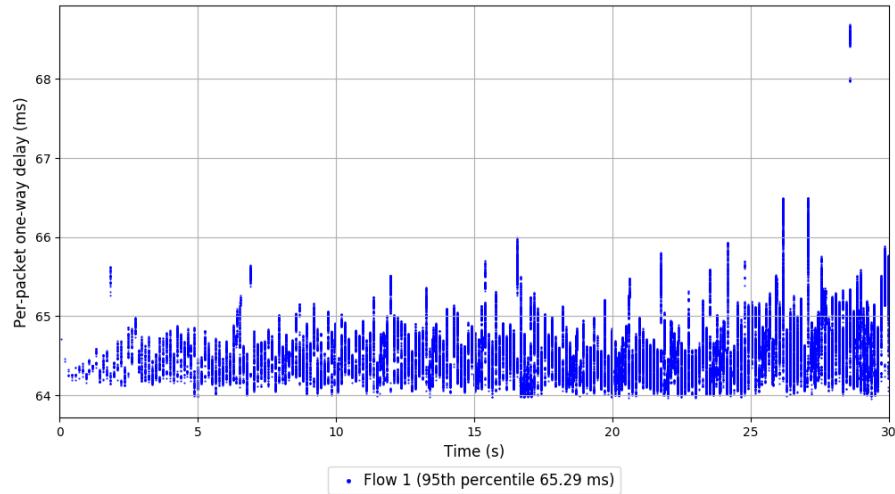
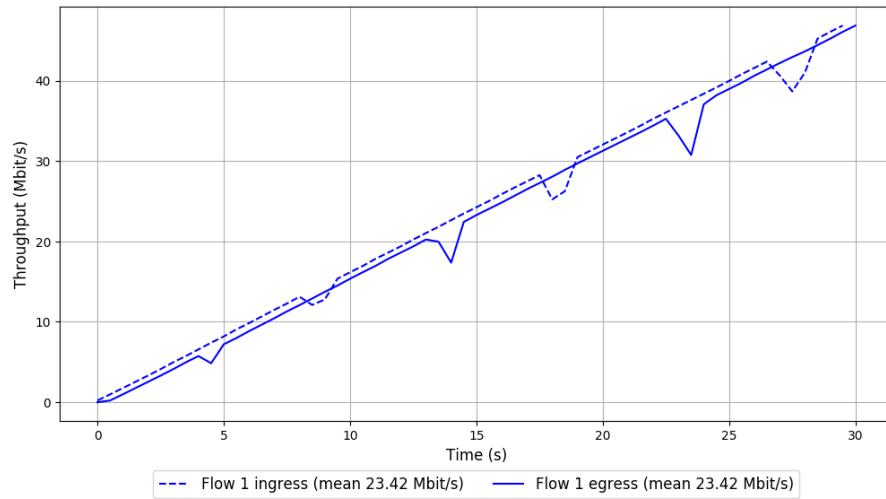


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-21 15:43:55
End at: 2019-01-21 15:44:25
Local clock offset: -0.034 ms
Remote clock offset: 1.2 ms

# Below is generated by plot.py at 2019-01-21 20:03:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 65.287 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 65.287 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

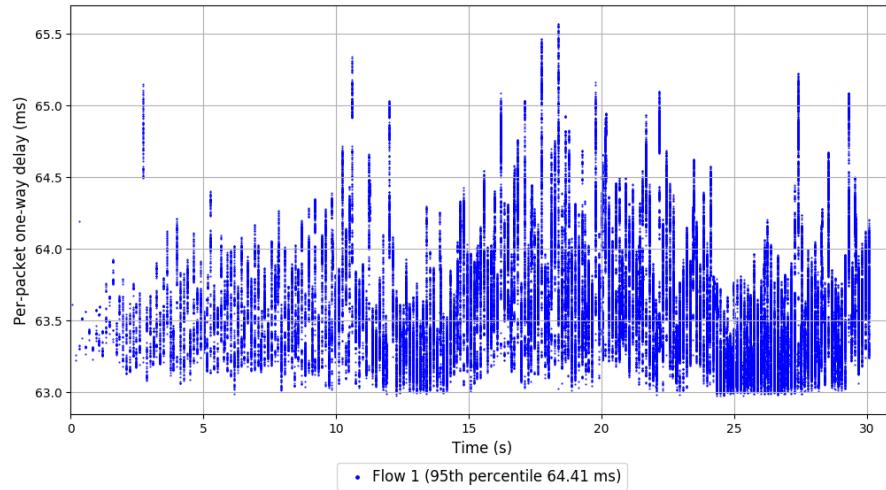
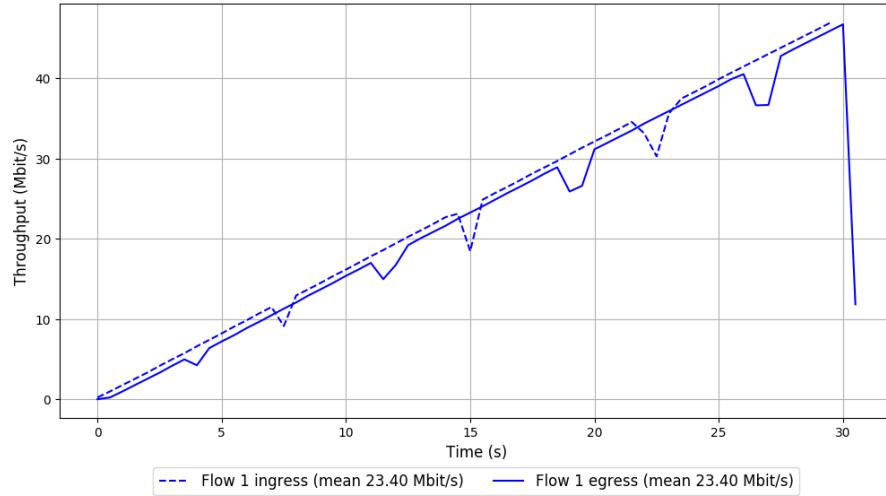


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-21 16:14:51
End at: 2019-01-21 16:15:21
Local clock offset: 0.017 ms
Remote clock offset: 0.169 ms

# Below is generated by plot.py at 2019-01-21 20:03:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.40 Mbit/s
95th percentile per-packet one-way delay: 64.413 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.40 Mbit/s
95th percentile per-packet one-way delay: 64.413 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

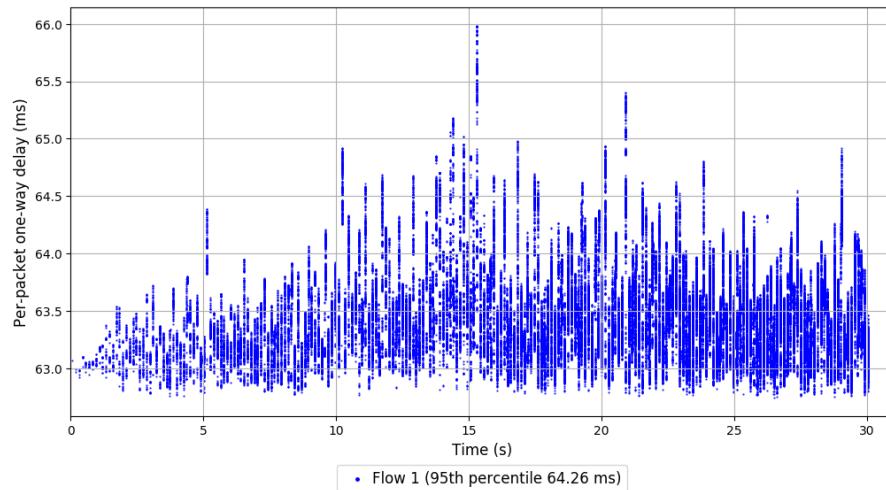
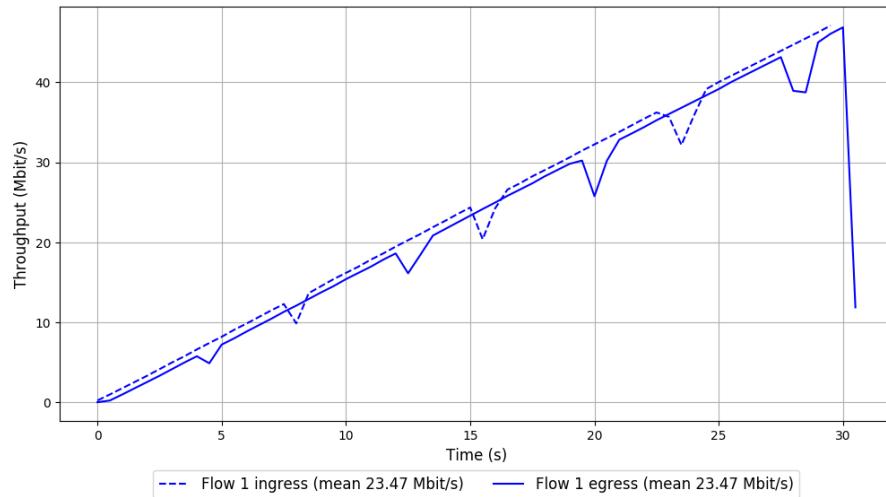


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-21 16:45:35
End at: 2019-01-21 16:46:05
Local clock offset: -0.041 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2019-01-21 20:03:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.47 Mbit/s
95th percentile per-packet one-way delay: 64.258 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.47 Mbit/s
95th percentile per-packet one-way delay: 64.258 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

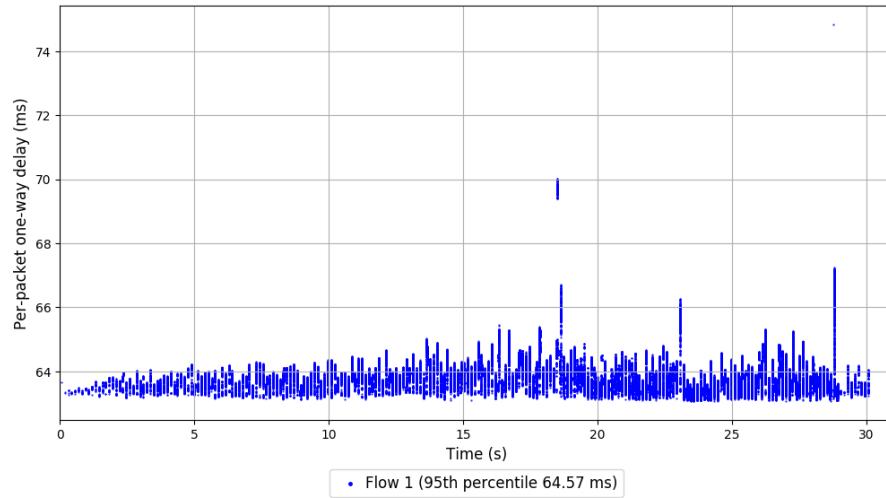
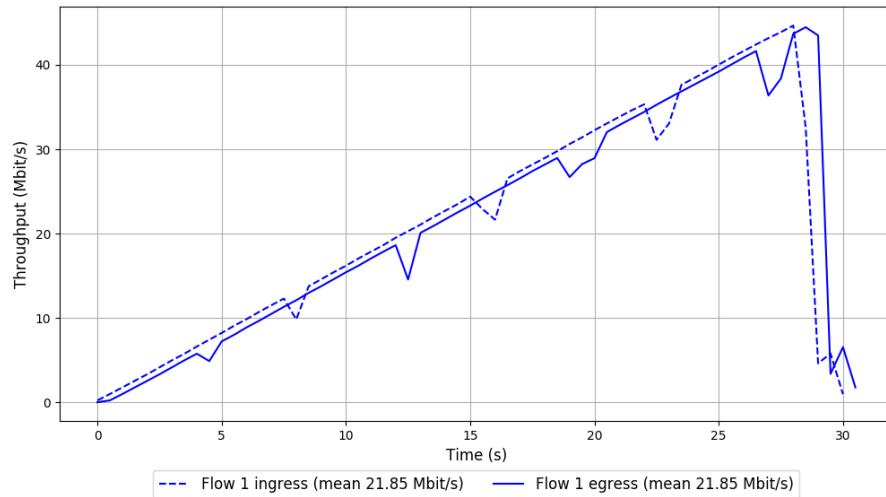


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-21 17:16:41
End at: 2019-01-21 17:17:11
Local clock offset: -0.097 ms
Remote clock offset: 0.052 ms

# Below is generated by plot.py at 2019-01-21 20:03:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.85 Mbit/s
95th percentile per-packet one-way delay: 64.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.85 Mbit/s
95th percentile per-packet one-way delay: 64.566 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

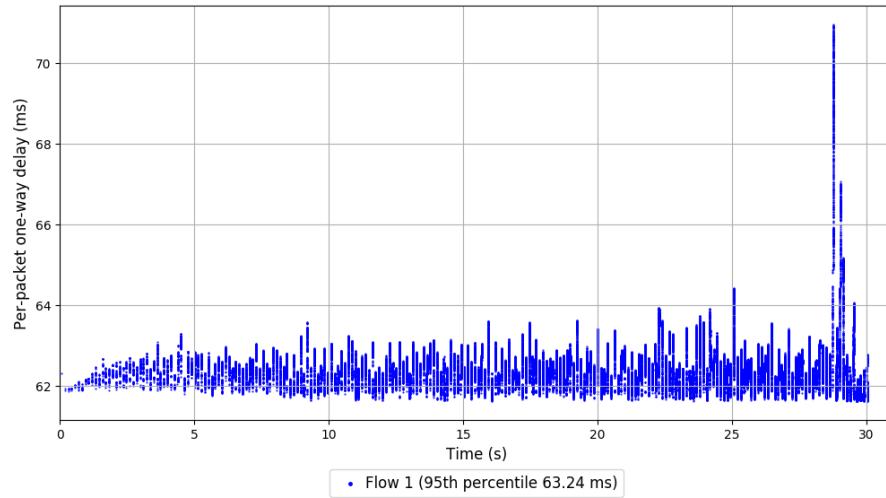
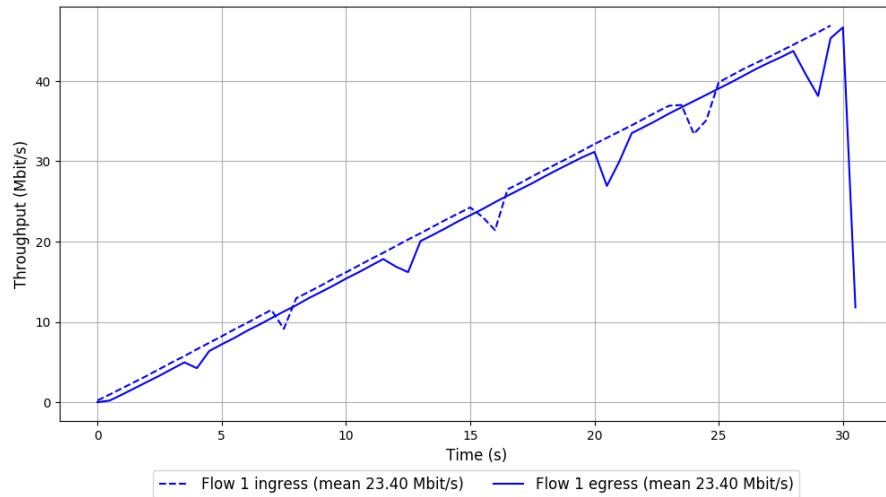


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-21 17:48:04
End at: 2019-01-21 17:48:34
Local clock offset: -0.034 ms
Remote clock offset: -1.245 ms

# Below is generated by plot.py at 2019-01-21 20:03:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.40 Mbit/s
95th percentile per-packet one-way delay: 63.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.40 Mbit/s
95th percentile per-packet one-way delay: 63.245 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

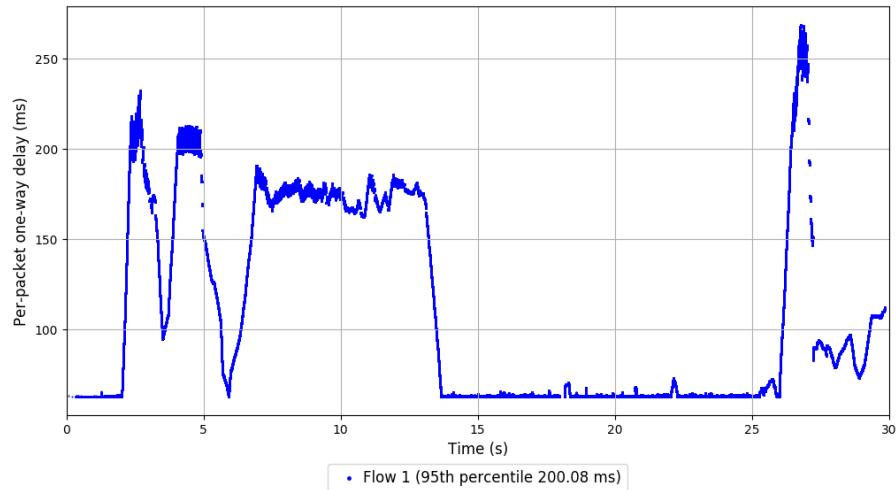
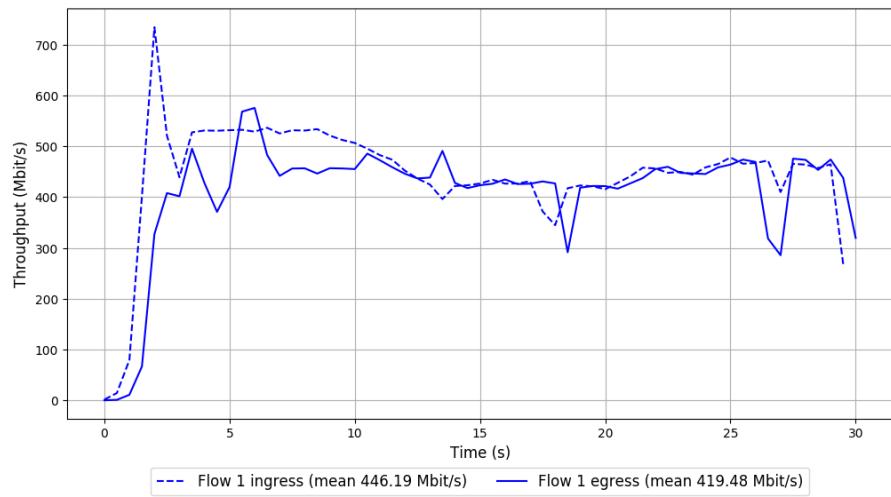


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-21 15:42:18
End at: 2019-01-21 15:42:48
Local clock offset: -0.041 ms
Remote clock offset: -0.468 ms

# Below is generated by plot.py at 2019-01-21 20:12:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 419.48 Mbit/s
95th percentile per-packet one-way delay: 200.082 ms
Loss rate: 5.98%
-- Flow 1:
Average throughput: 419.48 Mbit/s
95th percentile per-packet one-way delay: 200.082 ms
Loss rate: 5.98%
```

Run 1: Report of PCC-Allegro — Data Link

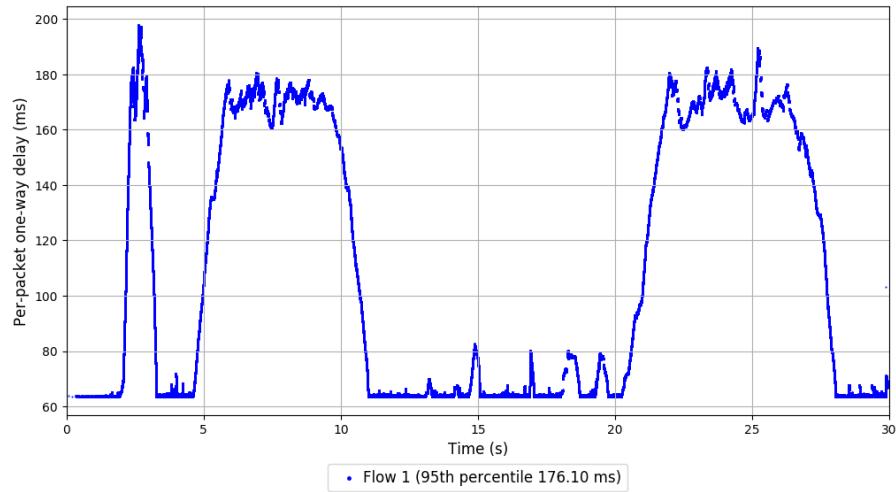
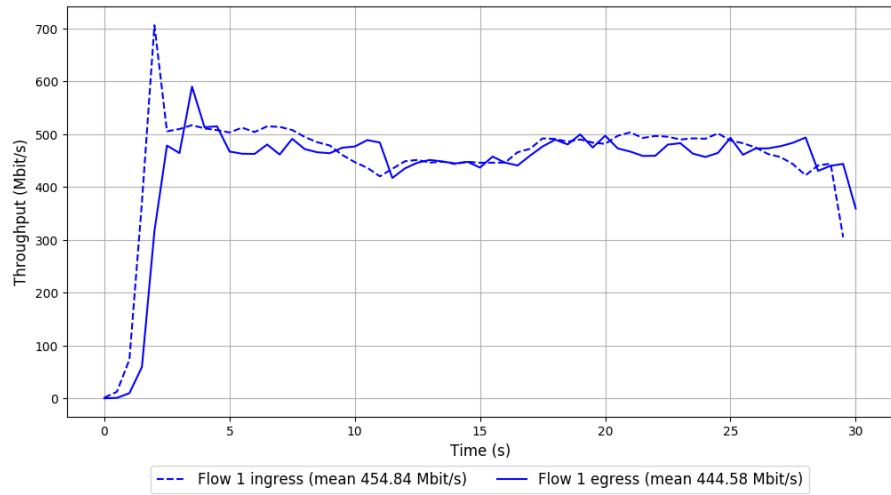


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-21 16:13:13
End at: 2019-01-21 16:13:43
Local clock offset: -0.01 ms
Remote clock offset: 0.794 ms

# Below is generated by plot.py at 2019-01-21 20:15:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 444.58 Mbit/s
95th percentile per-packet one-way delay: 176.103 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 444.58 Mbit/s
95th percentile per-packet one-way delay: 176.103 ms
Loss rate: 2.25%
```

Run 2: Report of PCC-Allegro — Data Link

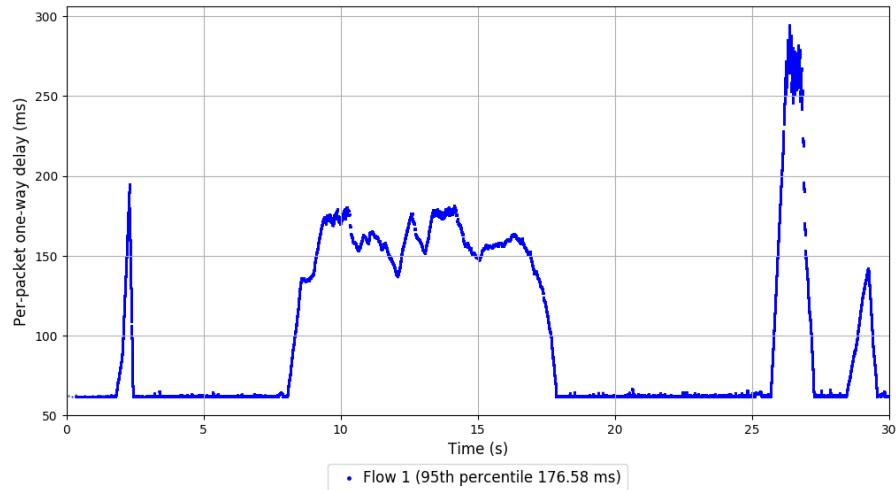
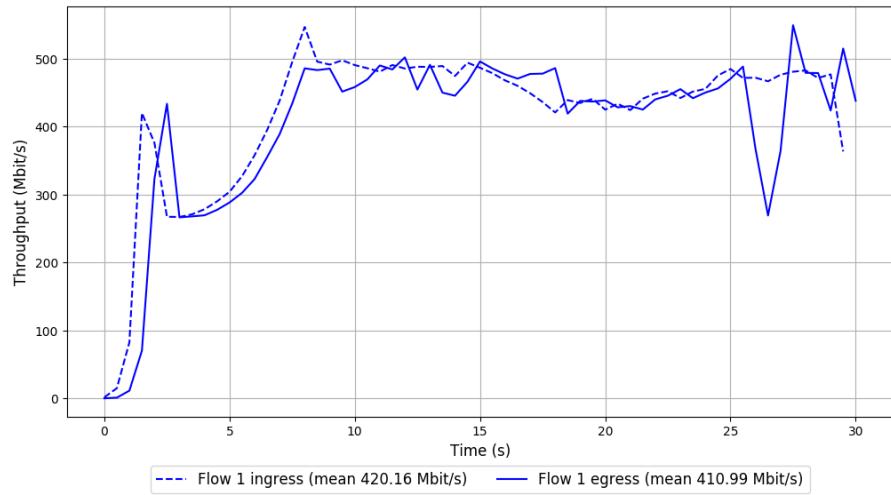


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-21 16:44:00
End at: 2019-01-21 16:44:30
Local clock offset: -0.027 ms
Remote clock offset: -0.788 ms

# Below is generated by plot.py at 2019-01-21 20:15:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 410.99 Mbit/s
95th percentile per-packet one-way delay: 176.576 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 410.99 Mbit/s
95th percentile per-packet one-way delay: 176.576 ms
Loss rate: 2.18%
```

Run 3: Report of PCC-Allegro — Data Link

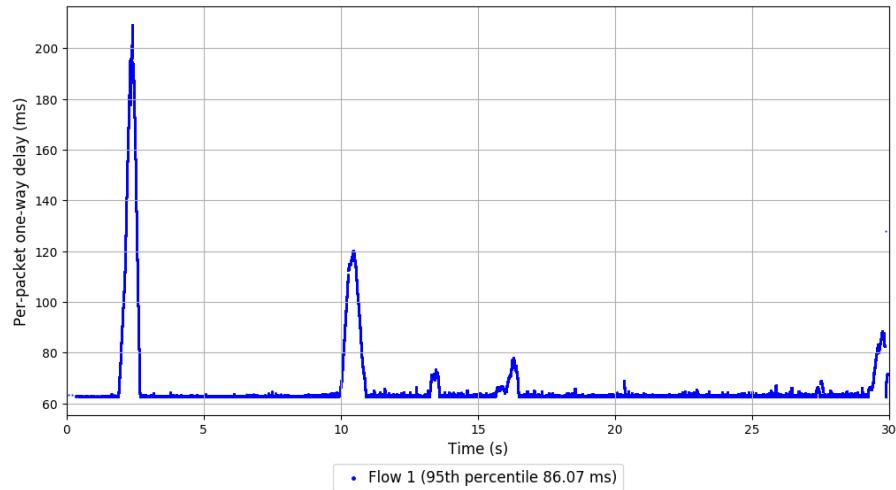
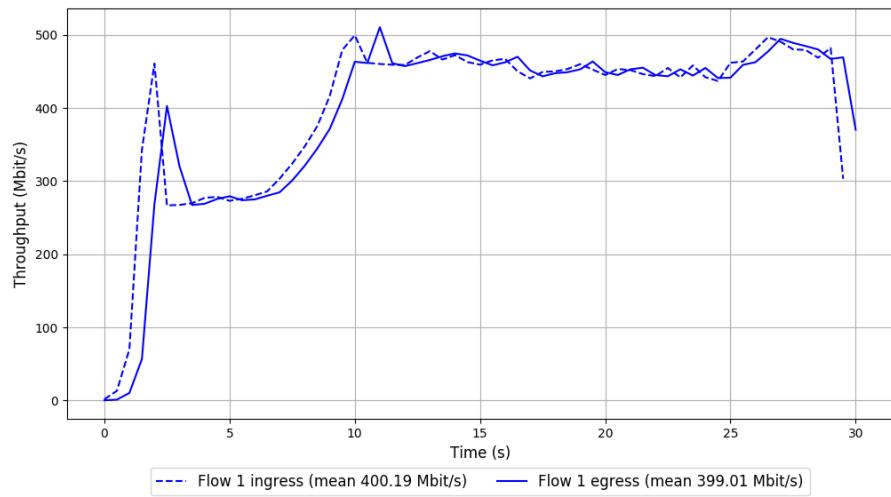


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-21 17:15:06
End at: 2019-01-21 17:15:36
Local clock offset: 0.036 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-01-21 20:17:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 399.01 Mbit/s
95th percentile per-packet one-way delay: 86.067 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 399.01 Mbit/s
95th percentile per-packet one-way delay: 86.067 ms
Loss rate: 0.29%
```

Run 4: Report of PCC-Allegro — Data Link

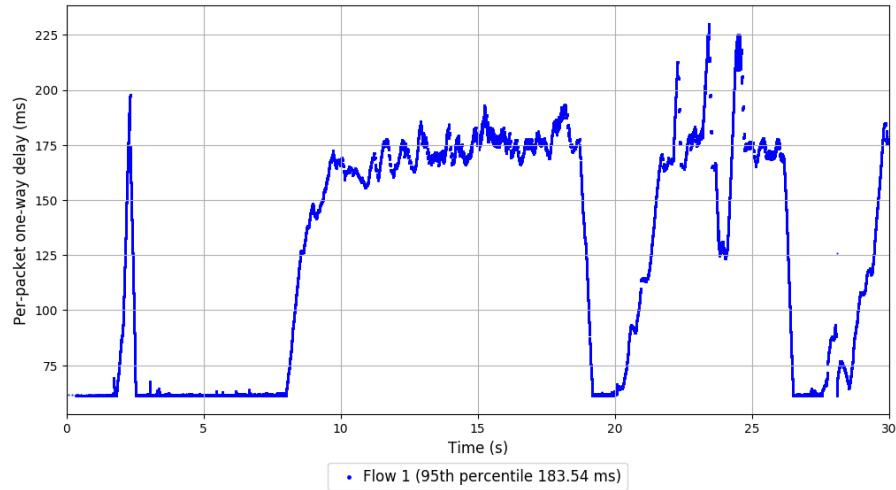
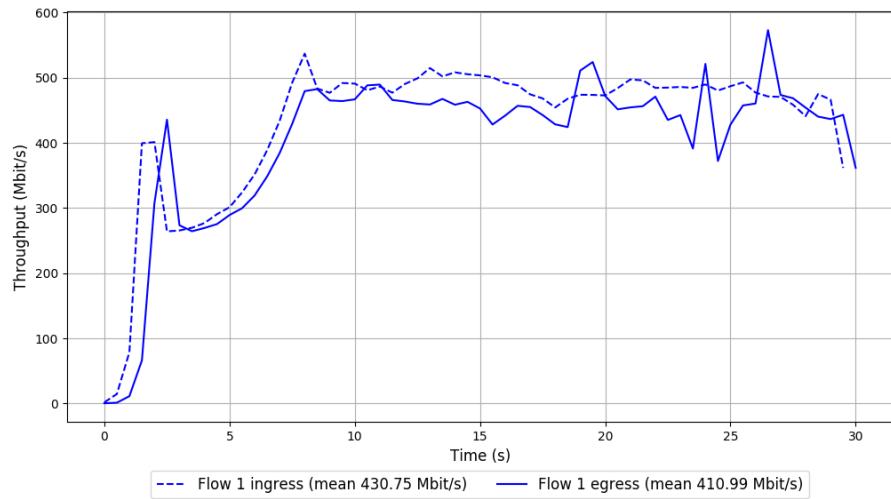


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-21 17:46:29
End at: 2019-01-21 17:46:59
Local clock offset: -0.038 ms
Remote clock offset: -1.449 ms

# Below is generated by plot.py at 2019-01-21 20:19:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 410.99 Mbit/s
95th percentile per-packet one-way delay: 183.542 ms
Loss rate: 4.58%
-- Flow 1:
Average throughput: 410.99 Mbit/s
95th percentile per-packet one-way delay: 183.542 ms
Loss rate: 4.58%
```

Run 5: Report of PCC-Allegro — Data Link

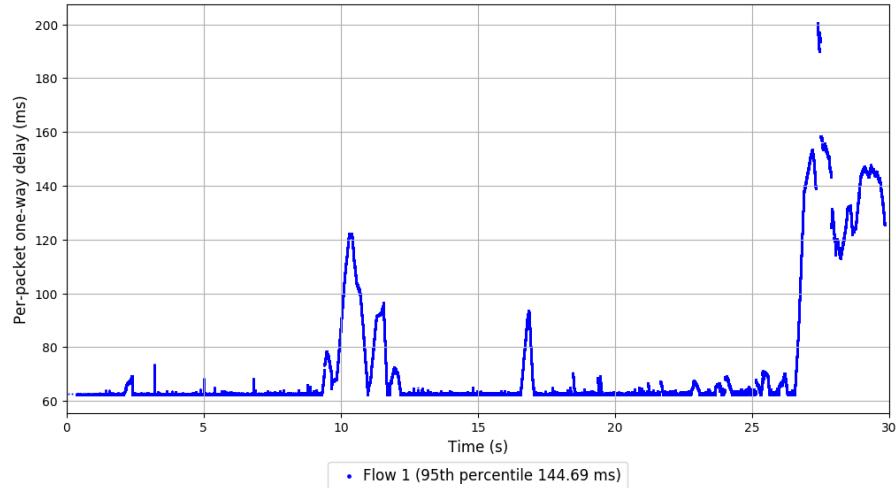
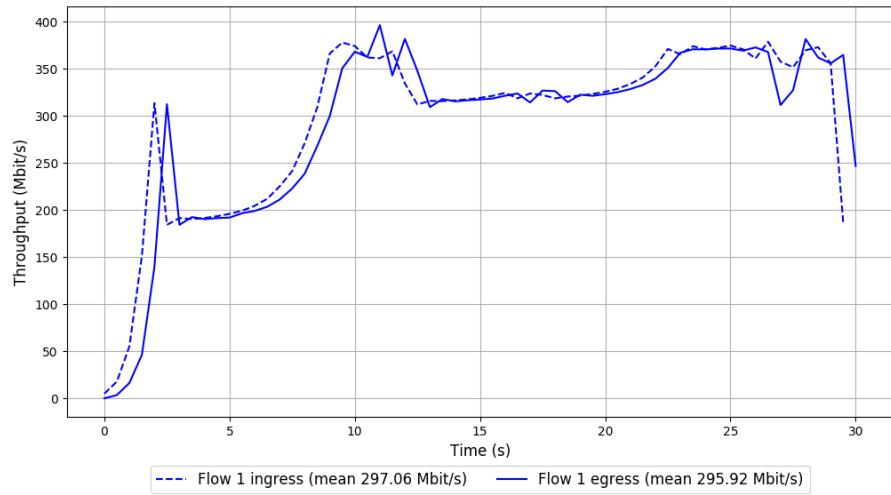


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-21 15:52:08
End at: 2019-01-21 15:52:38
Local clock offset: 0.031 ms
Remote clock offset: -0.713 ms

# Below is generated by plot.py at 2019-01-21 20:19:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 295.92 Mbit/s
95th percentile per-packet one-way delay: 144.688 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 295.92 Mbit/s
95th percentile per-packet one-way delay: 144.688 ms
Loss rate: 0.38%
```

Run 1: Report of PCC-Expr — Data Link

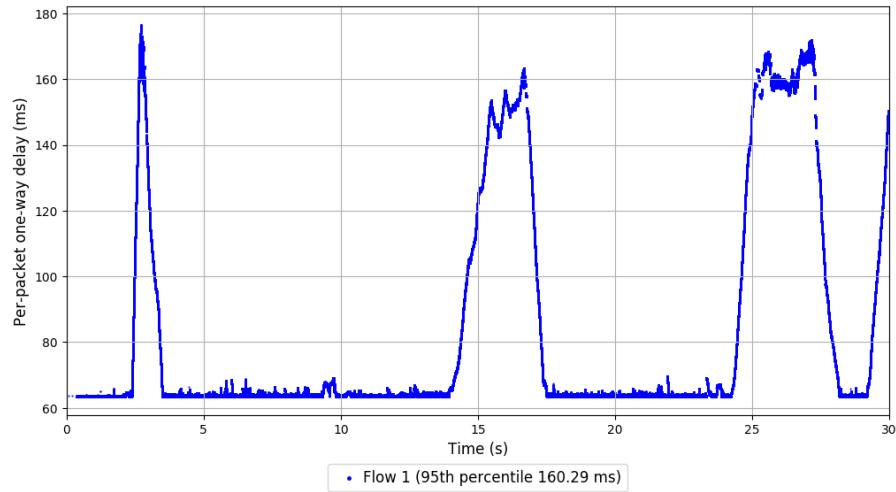
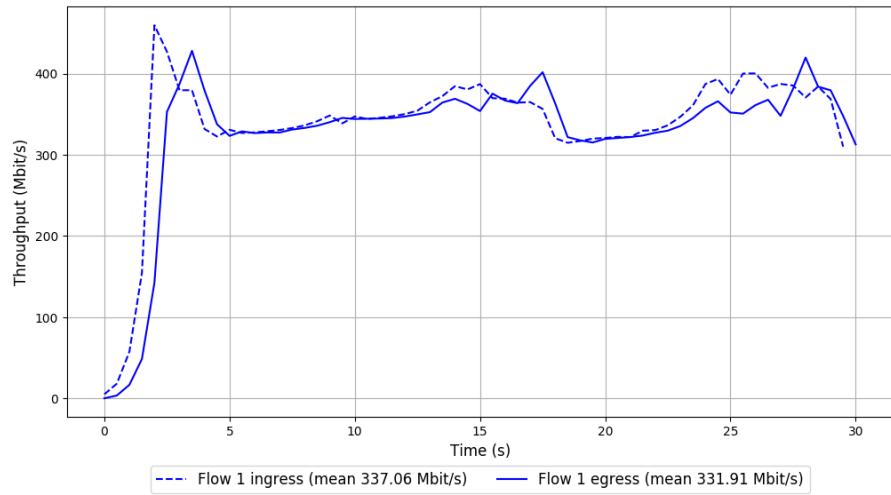


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-21 16:23:24
End at: 2019-01-21 16:23:54
Local clock offset: 0.012 ms
Remote clock offset: 0.512 ms

# Below is generated by plot.py at 2019-01-21 20:19:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.91 Mbit/s
95th percentile per-packet one-way delay: 160.286 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 331.91 Mbit/s
95th percentile per-packet one-way delay: 160.286 ms
Loss rate: 1.53%
```

Run 2: Report of PCC-Expr — Data Link

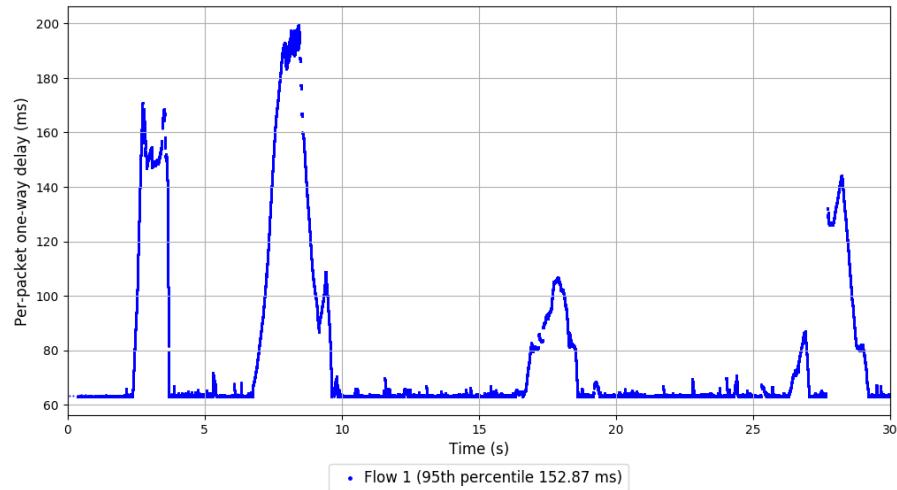
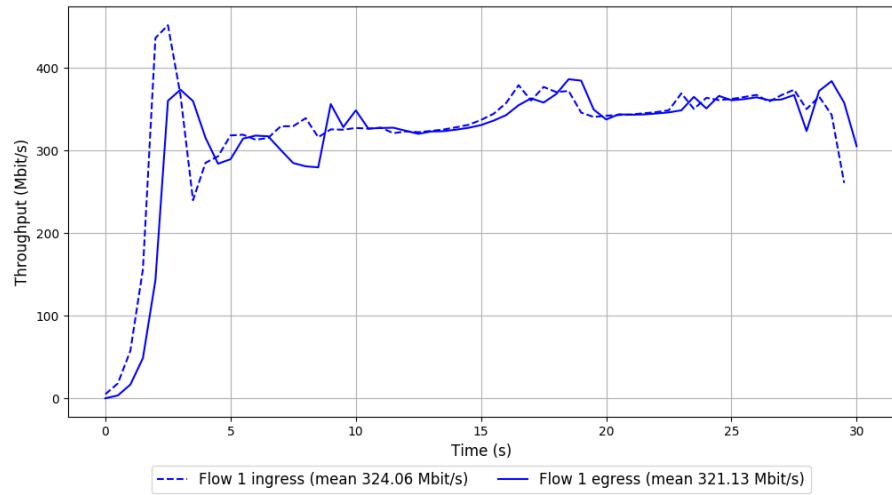


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-21 16:54:07
End at: 2019-01-21 16:54:37
Local clock offset: -0.053 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-01-21 20:19:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 321.13 Mbit/s
95th percentile per-packet one-way delay: 152.871 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 321.13 Mbit/s
95th percentile per-packet one-way delay: 152.871 ms
Loss rate: 0.91%
```

Run 3: Report of PCC-Expr — Data Link

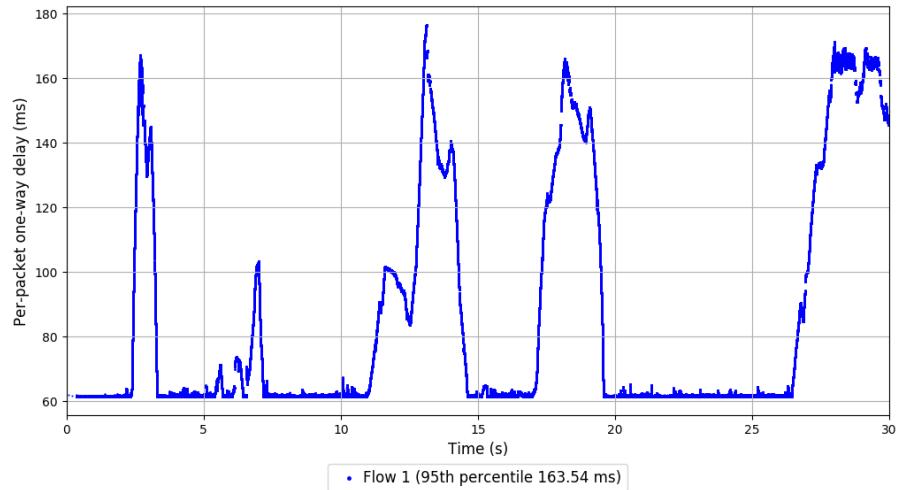
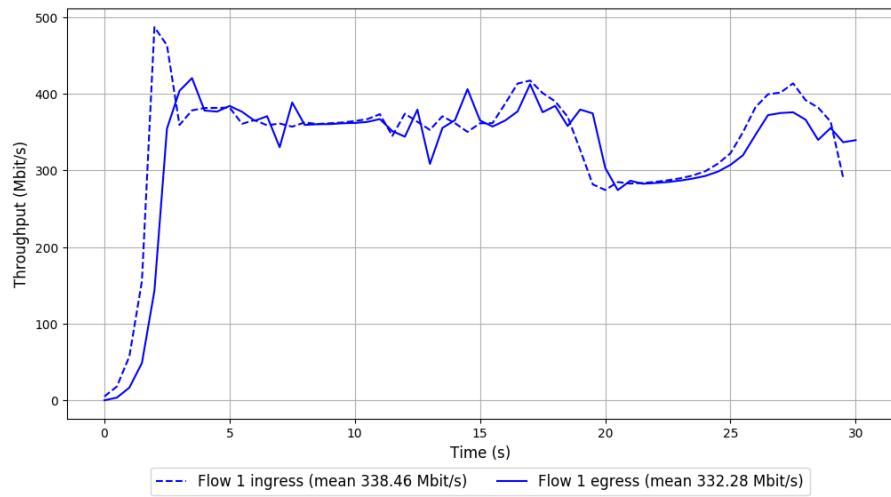


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-21 17:25:12
End at: 2019-01-21 17:25:42
Local clock offset: -0.052 ms
Remote clock offset: -1.401 ms

# Below is generated by plot.py at 2019-01-21 20:28:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.28 Mbit/s
95th percentile per-packet one-way delay: 163.541 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 332.28 Mbit/s
95th percentile per-packet one-way delay: 163.541 ms
Loss rate: 1.82%
```

Run 4: Report of PCC-Expr — Data Link

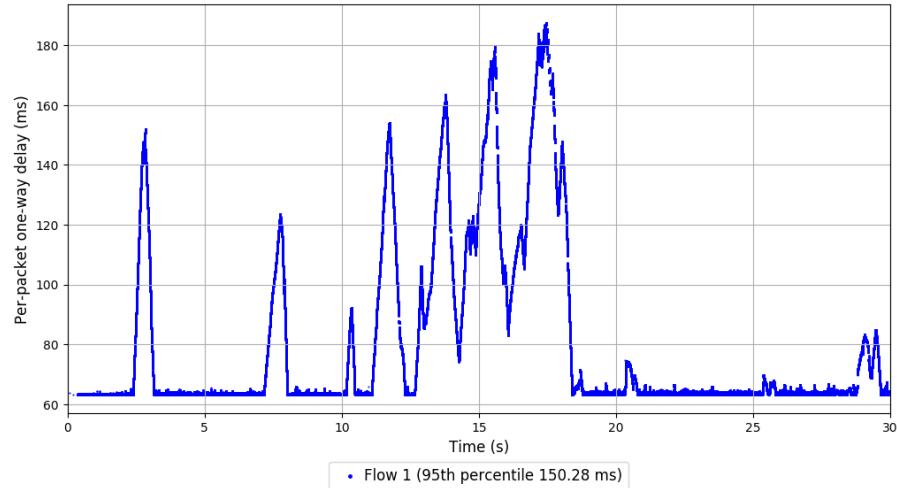
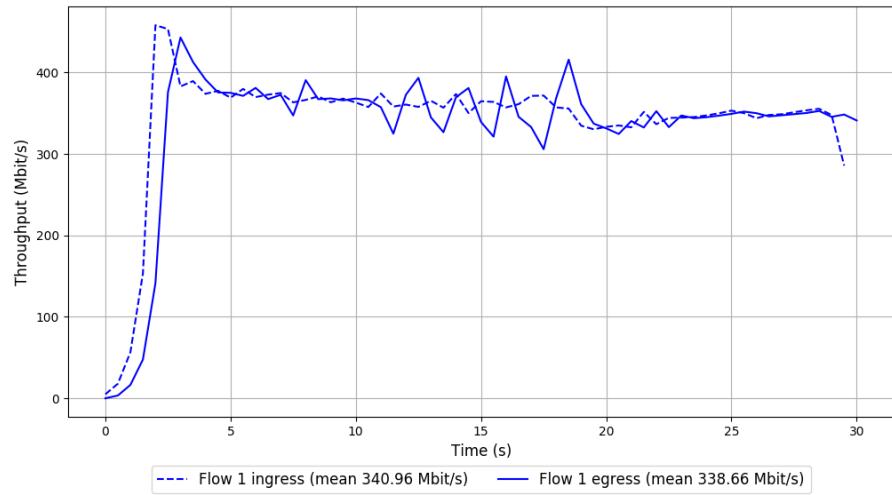


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-21 17:56:35
End at: 2019-01-21 17:57:05
Local clock offset: -0.052 ms
Remote clock offset: 0.052 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.66 Mbit/s
95th percentile per-packet one-way delay: 150.281 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 338.66 Mbit/s
95th percentile per-packet one-way delay: 150.281 ms
Loss rate: 0.68%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

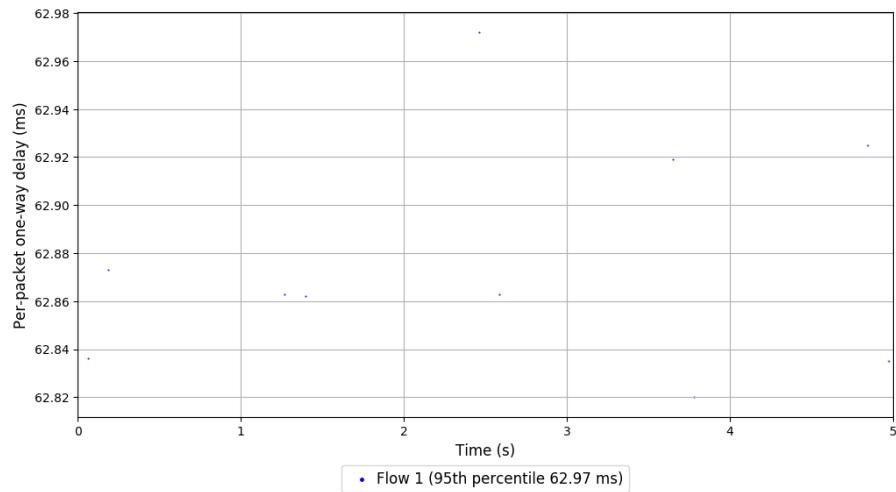
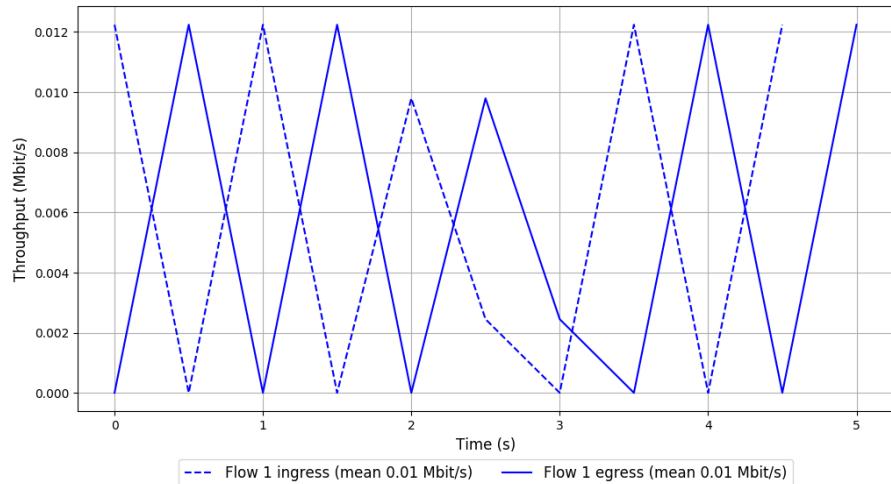
Start at: 2019-01-21 15:45:05

End at: 2019-01-21 15:45:36

Local clock offset: -0.022 ms

Remote clock offset: -0.08 ms

Run 1: Report of QUIC Cubic — Data Link

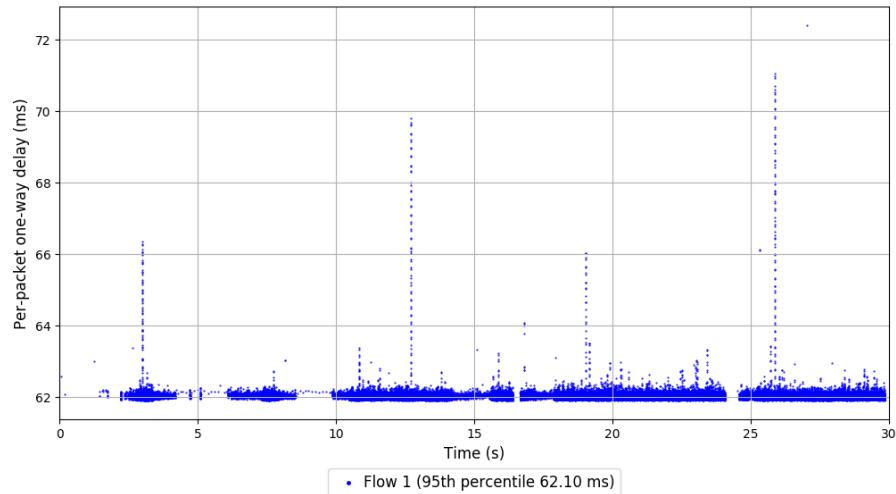
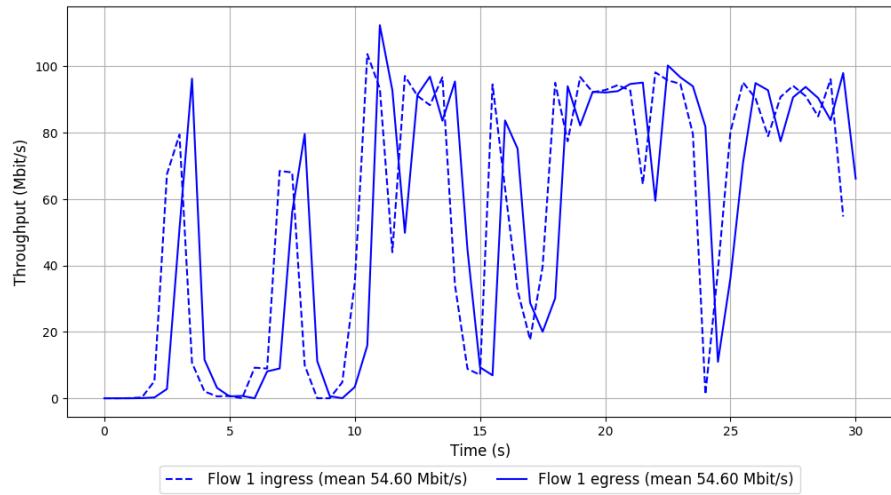


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-21 16:16:01
End at: 2019-01-21 16:16:31
Local clock offset: -0.013 ms
Remote clock offset: -0.801 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.60 Mbit/s
95th percentile per-packet one-way delay: 62.100 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.60 Mbit/s
95th percentile per-packet one-way delay: 62.100 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

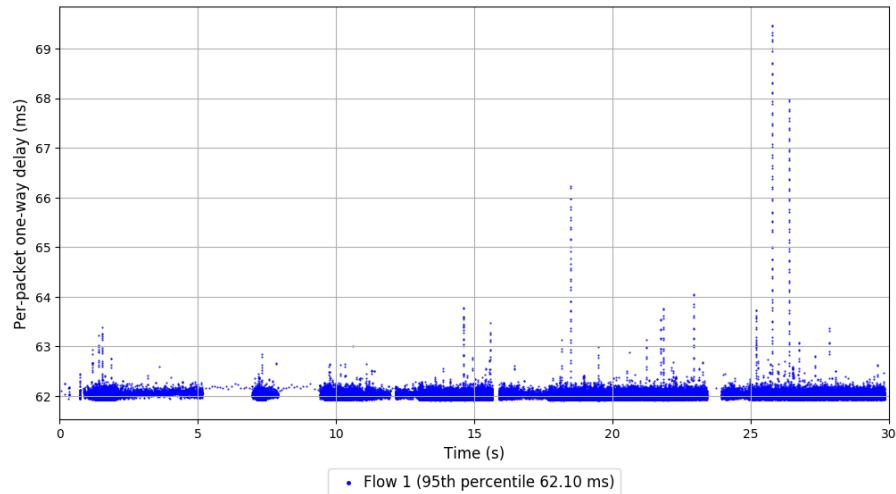
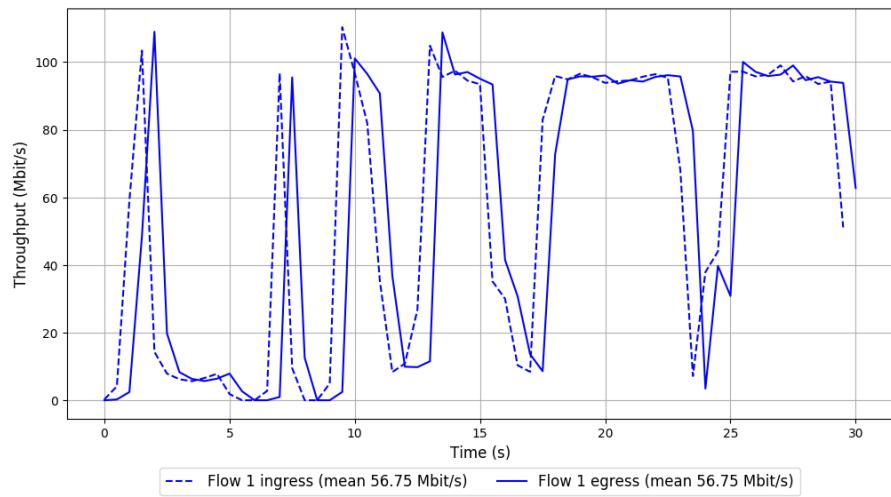


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-21 16:46:46
End at: 2019-01-21 16:47:16
Local clock offset: -0.042 ms
Remote clock offset: -1.025 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.75 Mbit/s
95th percentile per-packet one-way delay: 62.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.75 Mbit/s
95th percentile per-packet one-way delay: 62.103 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

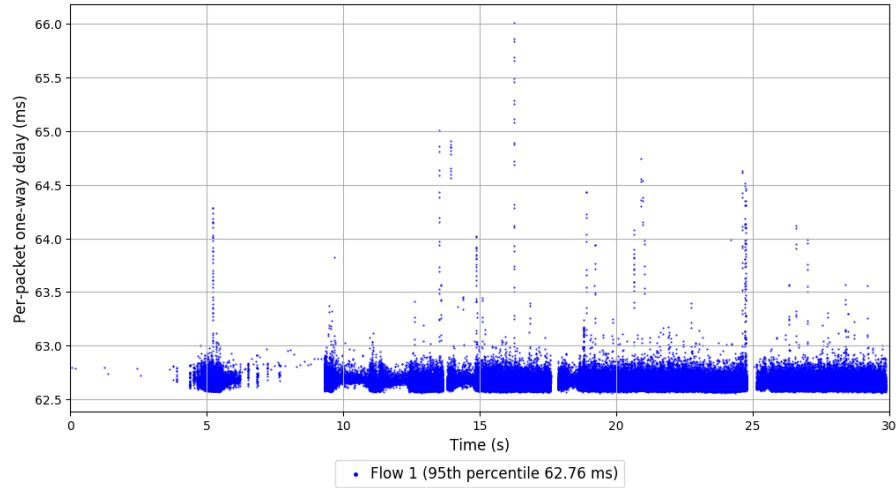
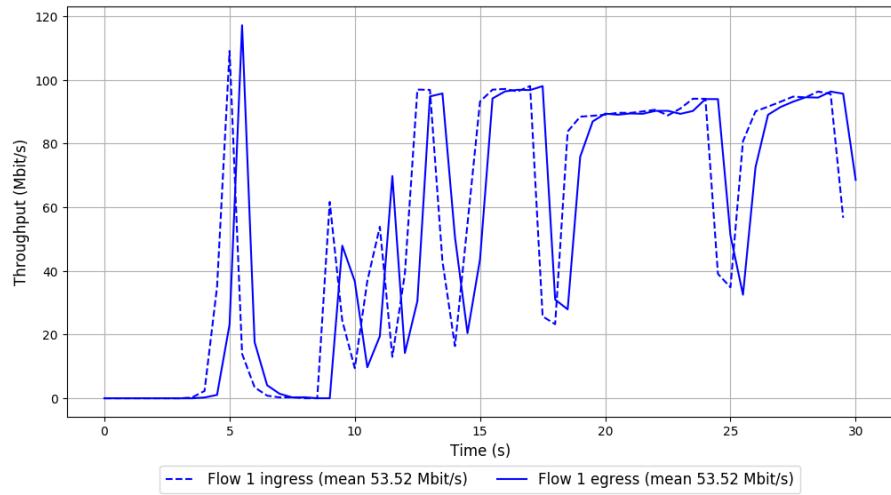


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-21 17:17:51
End at: 2019-01-21 17:18:21
Local clock offset: 0.014 ms
Remote clock offset: -0.347 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.52 Mbit/s
95th percentile per-packet one-way delay: 62.755 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.52 Mbit/s
95th percentile per-packet one-way delay: 62.755 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

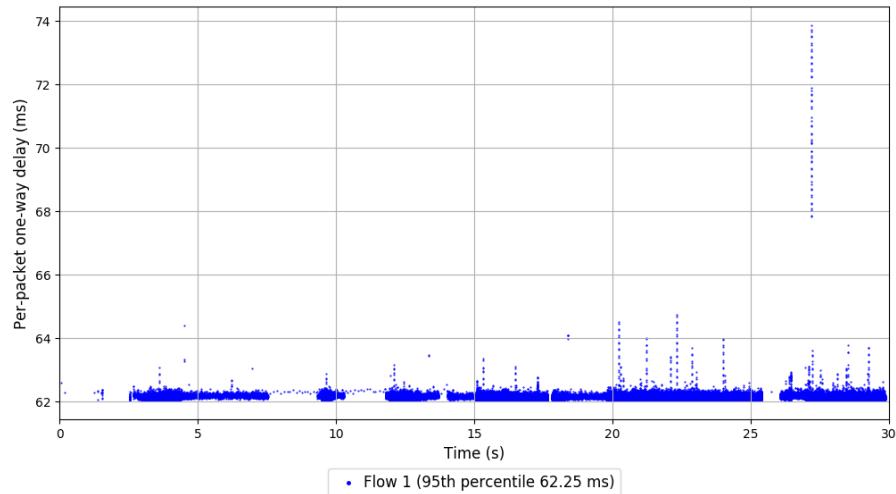
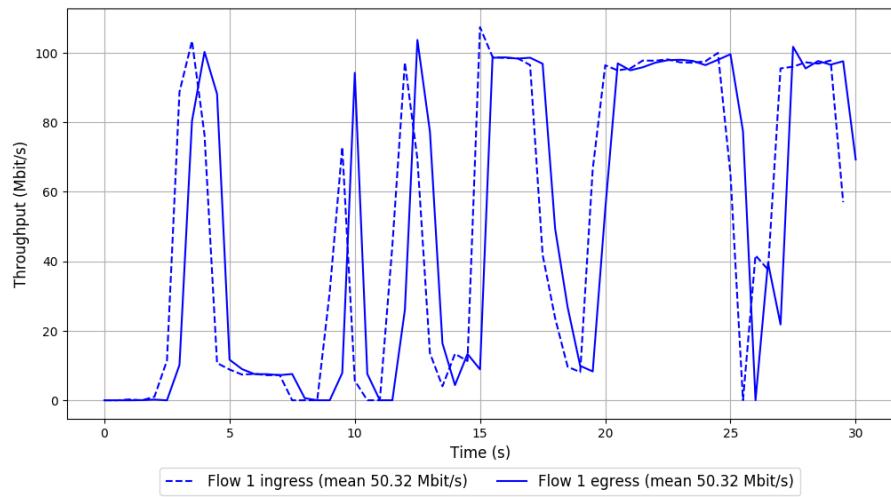


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-21 17:49:14
End at: 2019-01-21 17:49:44
Local clock offset: 0.09 ms
Remote clock offset: -0.693 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.32 Mbit/s
95th percentile per-packet one-way delay: 62.252 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.32 Mbit/s
95th percentile per-packet one-way delay: 62.252 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

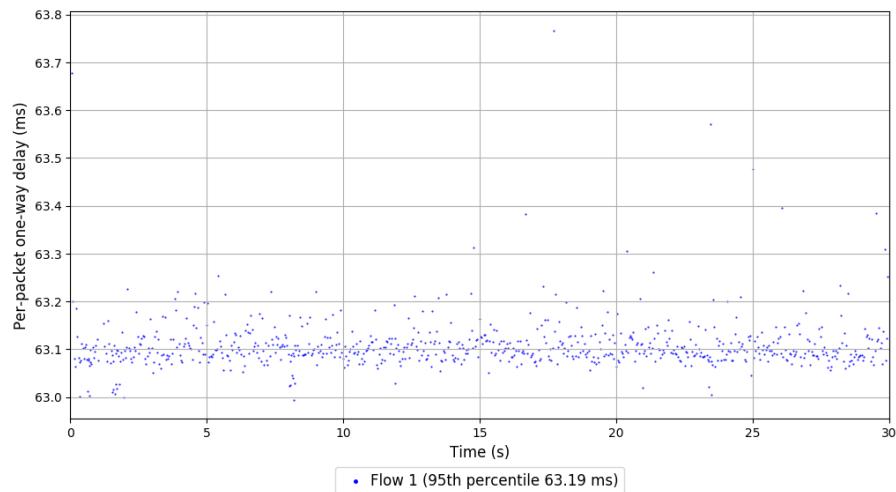
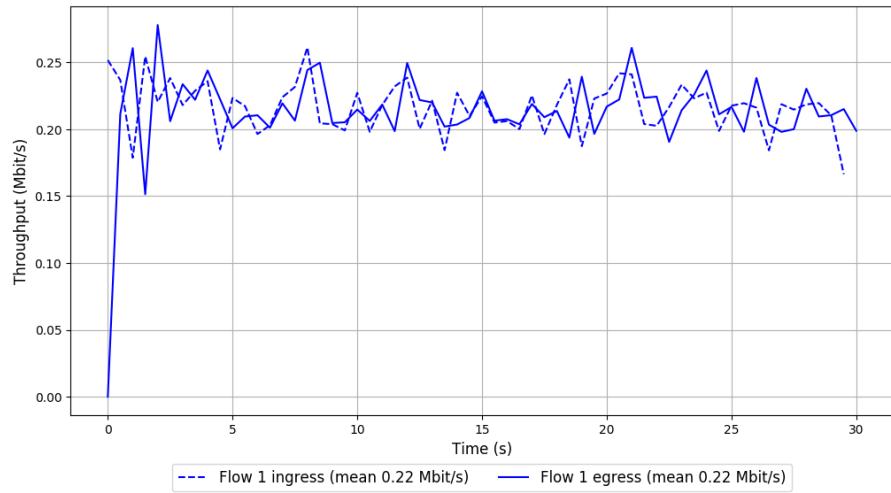


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-01-21 15:59:57
End at: 2019-01-21 16:00:27
Local clock offset: 0.003 ms
Remote clock offset: -0.275 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.193 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

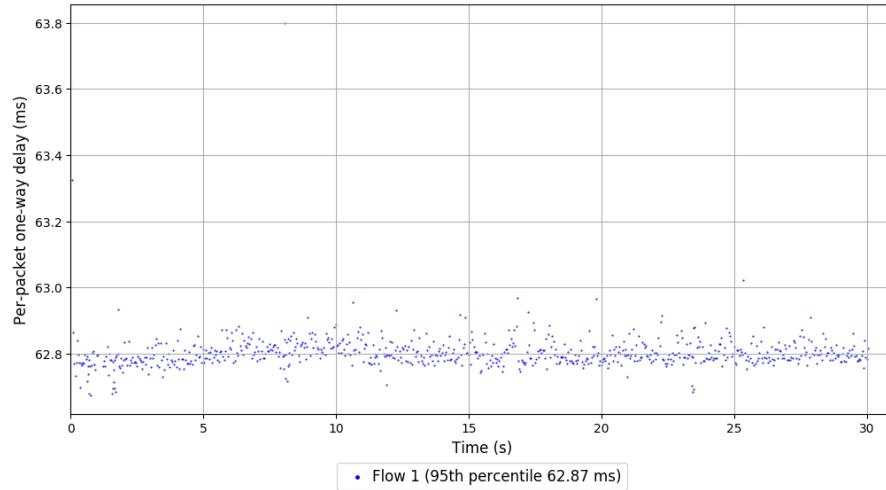
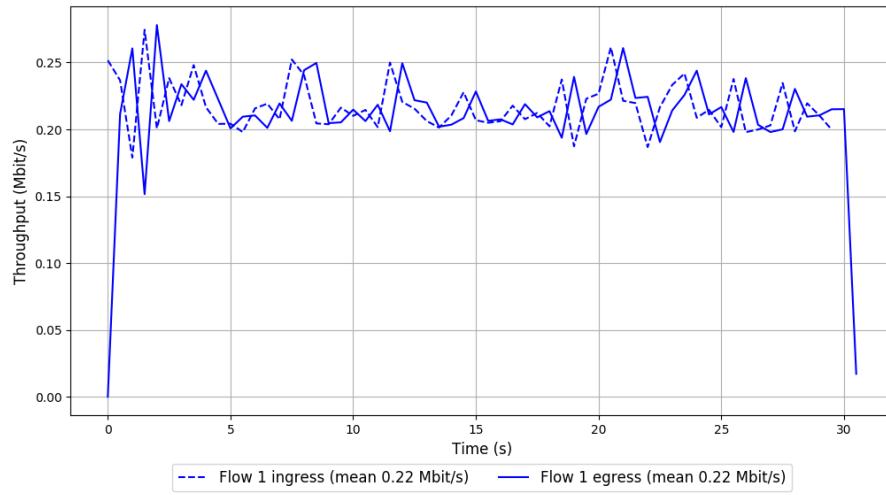


Run 2: Statistics of SCReAM

```
Start at: 2019-01-21 16:30:56
End at: 2019-01-21 16:31:26
Local clock offset: -0.006 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.871 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.871 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

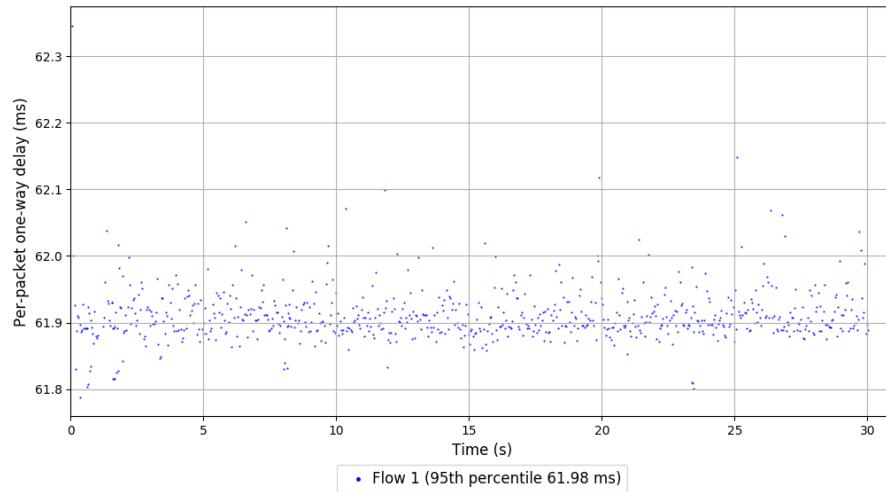
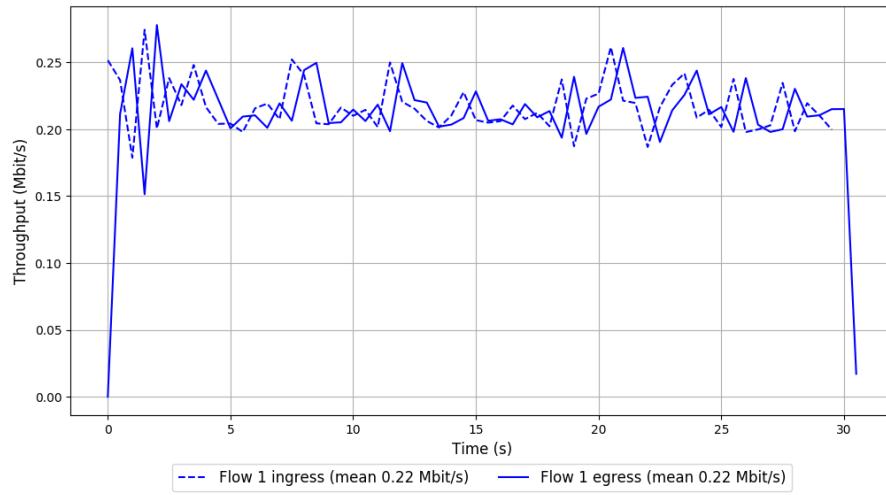


Run 3: Statistics of SCReAM

```
Start at: 2019-01-21 17:01:55
End at: 2019-01-21 17:02:25
Local clock offset: -0.094 ms
Remote clock offset: -1.344 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.979 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.979 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

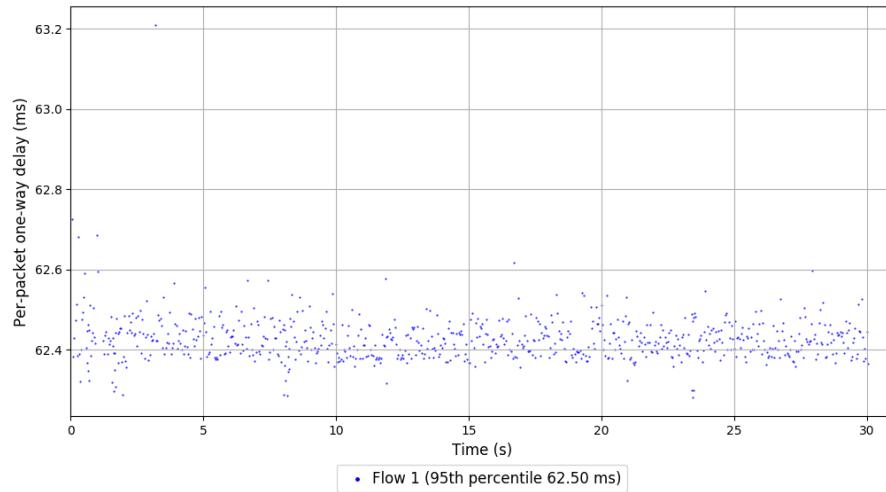
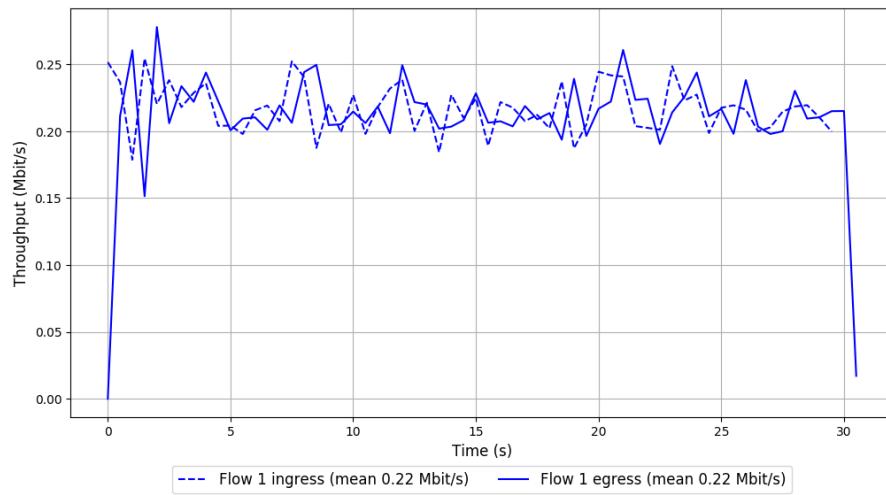


Run 4: Statistics of SCReAM

```
Start at: 2019-01-21 17:33:03
End at: 2019-01-21 17:33:33
Local clock offset: -0.033 ms
Remote clock offset: -0.683 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.504 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.504 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

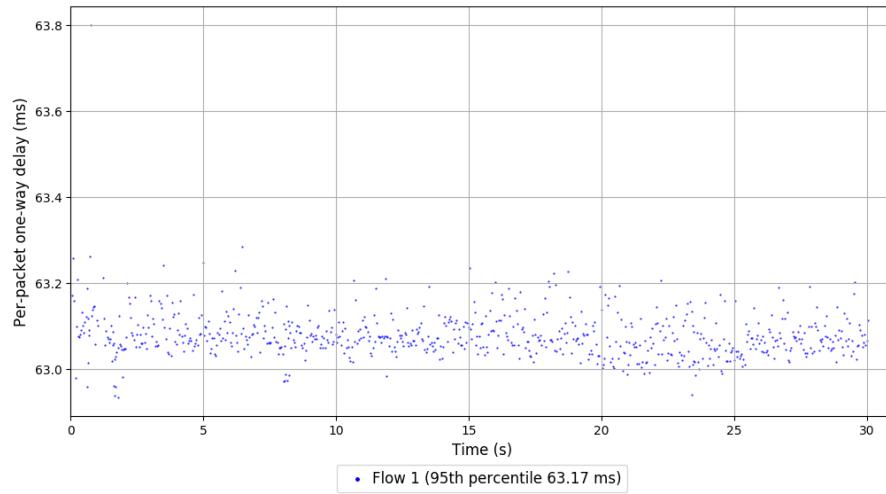
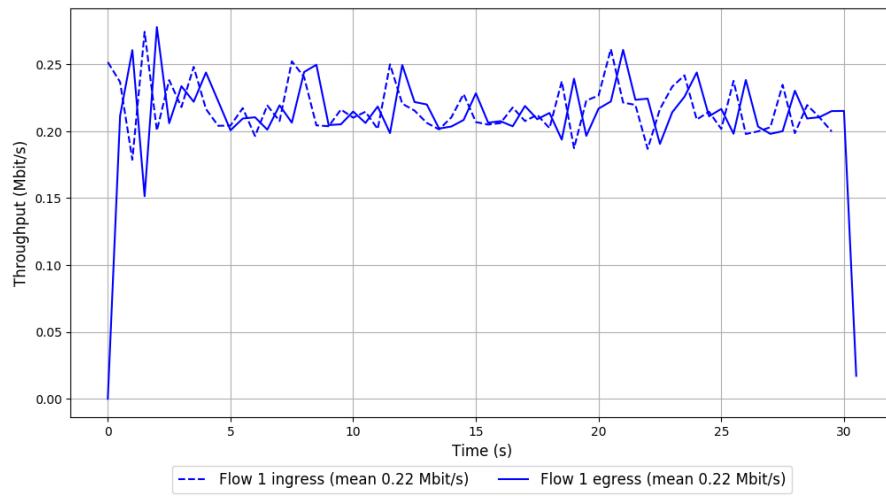


Run 5: Statistics of SCReAM

```
Start at: 2019-01-21 18:04:29
End at: 2019-01-21 18:04:59
Local clock offset: 0.09 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.172 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.172 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

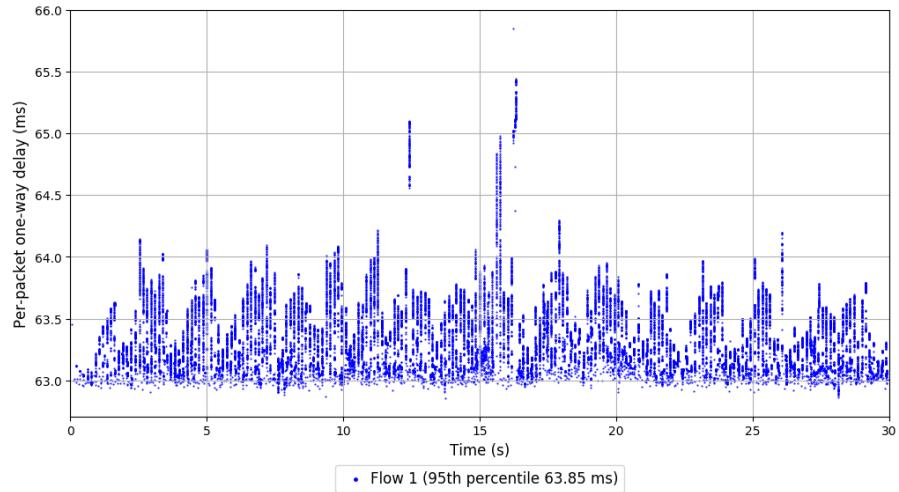
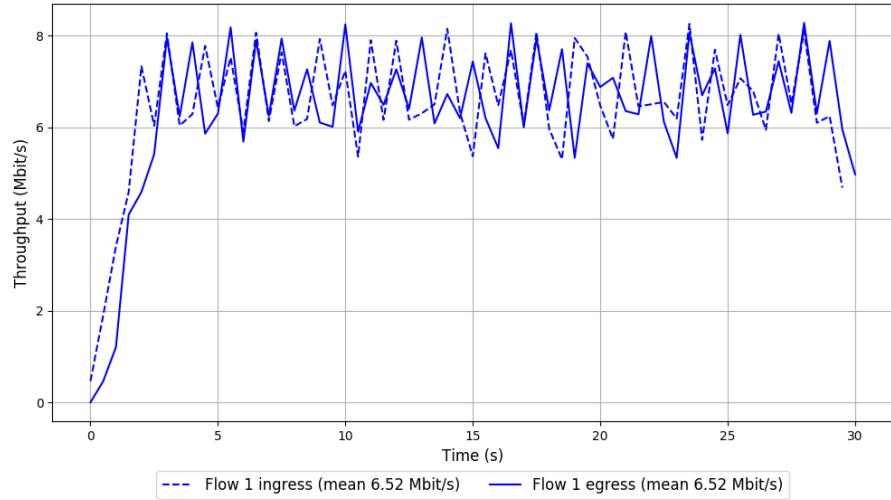


Run 1: Statistics of Sprout

```
Start at: 2019-01-21 15:48:03
End at: 2019-01-21 15:48:33
Local clock offset: -0.03 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 63.847 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 63.847 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

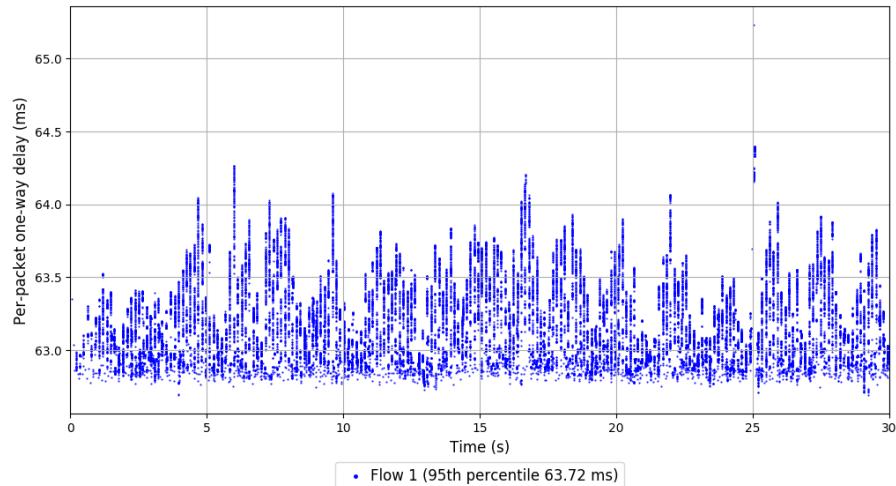
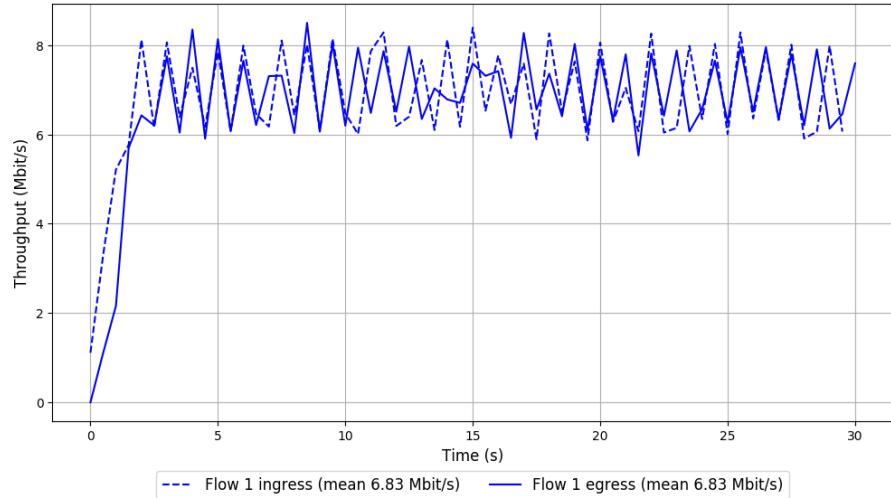


Run 2: Statistics of Sprout

```
Start at: 2019-01-21 16:19:00
End at: 2019-01-21 16:19:30
Local clock offset: -0.002 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 63.717 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 63.717 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

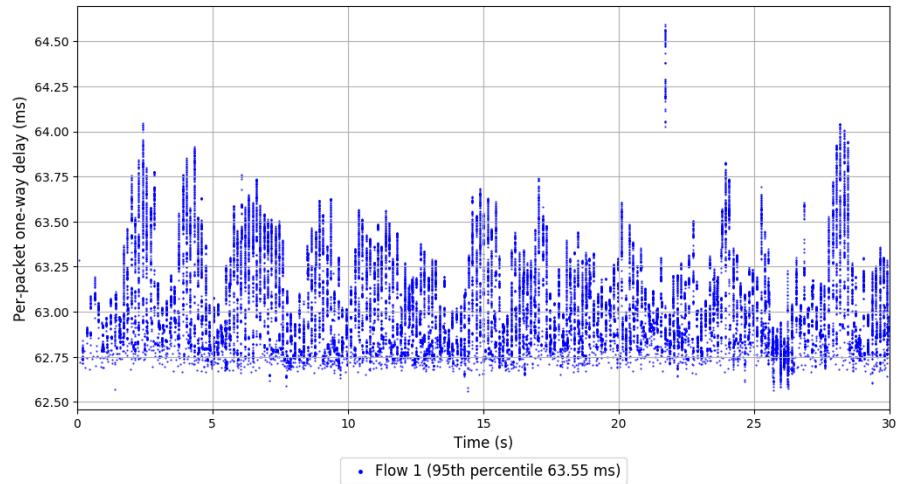
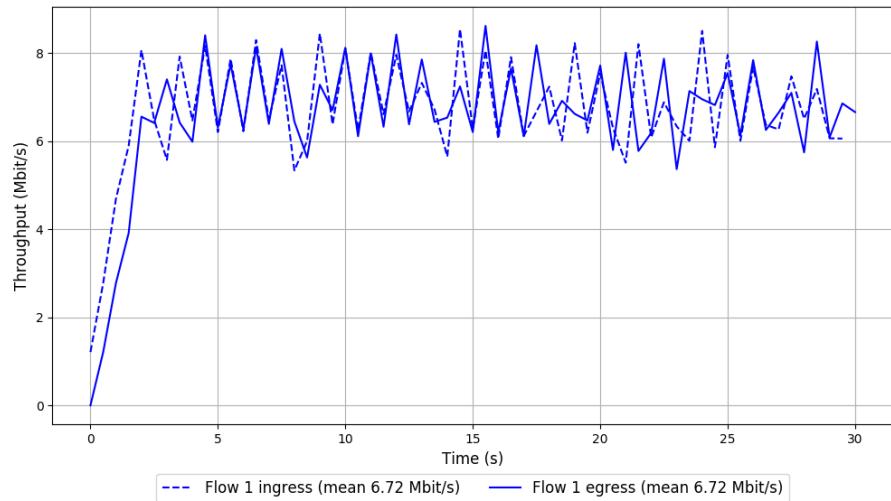


Run 3: Statistics of Sprout

```
Start at: 2019-01-21 16:49:44
End at: 2019-01-21 16:50:14
Local clock offset: -0.052 ms
Remote clock offset: -0.341 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.72 Mbit/s
95th percentile per-packet one-way delay: 63.545 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.72 Mbit/s
95th percentile per-packet one-way delay: 63.545 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

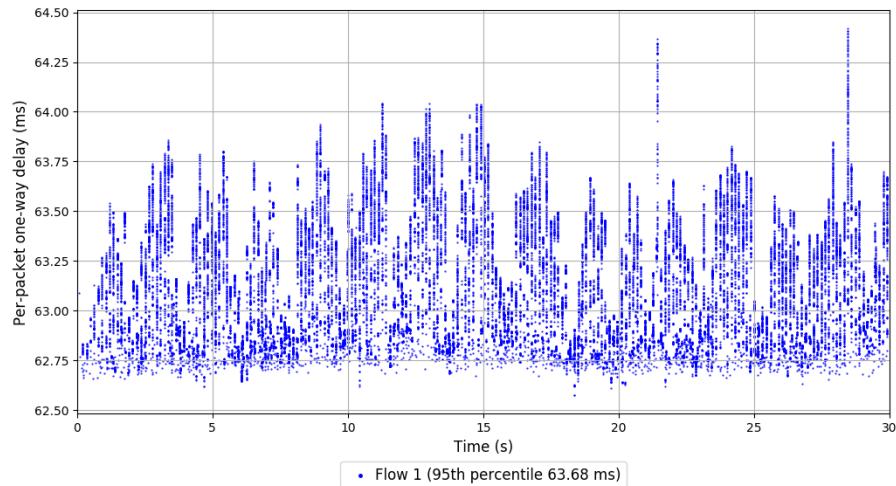
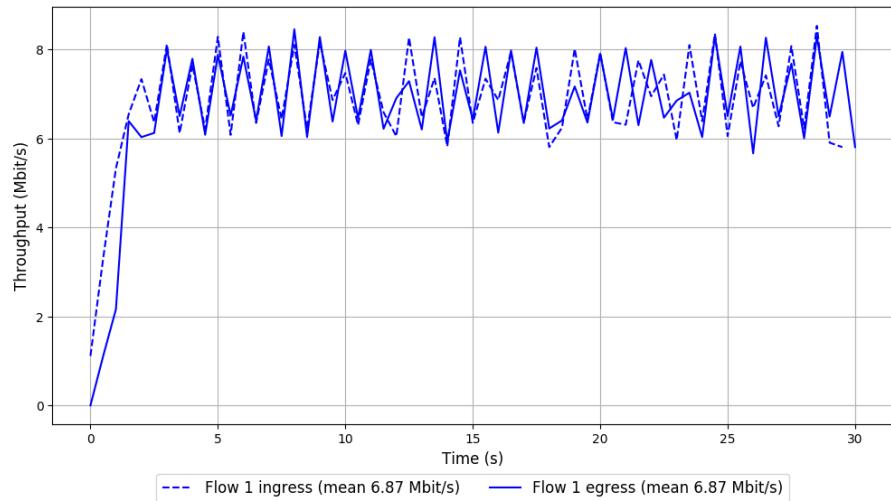


Run 4: Statistics of Sprout

```
Start at: 2019-01-21 17:20:49
End at: 2019-01-21 17:21:19
Local clock offset: -0.099 ms
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.87 Mbit/s
95th percentile per-packet one-way delay: 63.677 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.87 Mbit/s
95th percentile per-packet one-way delay: 63.677 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

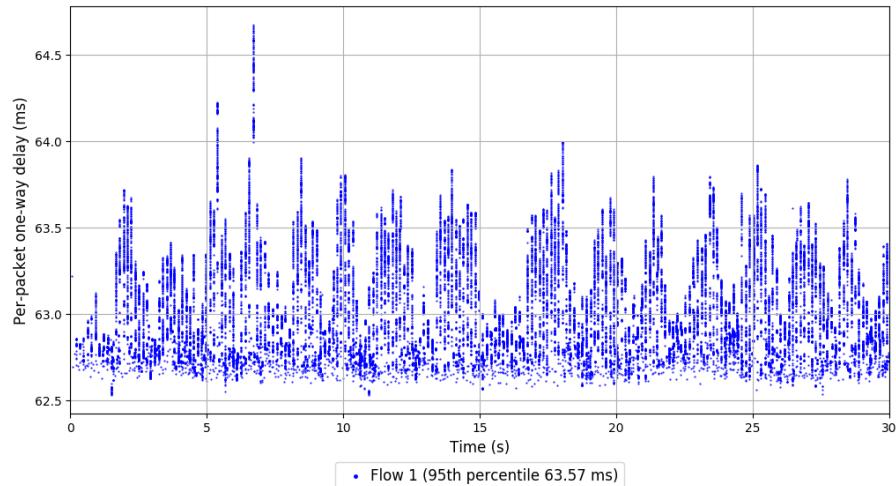
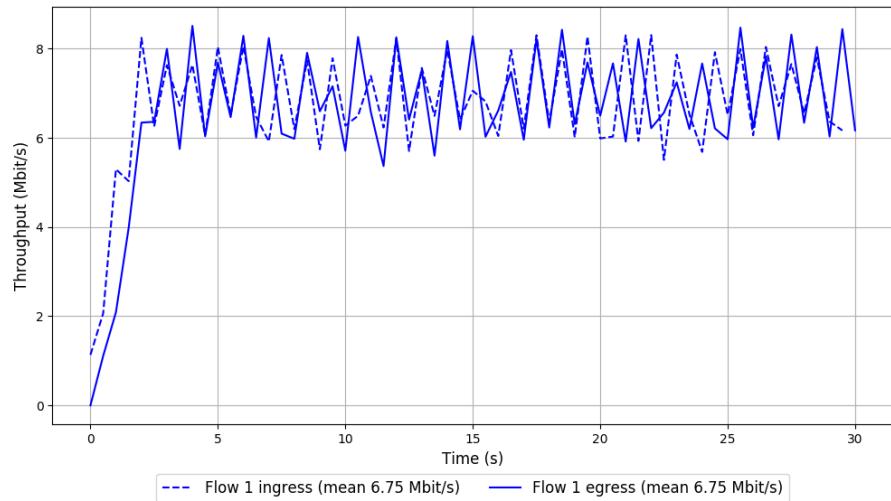


Run 5: Statistics of Sprout

```
Start at: 2019-01-21 17:52:11
End at: 2019-01-21 17:52:41
Local clock offset: 0.129 ms
Remote clock offset: -0.509 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 63.568 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 63.568 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

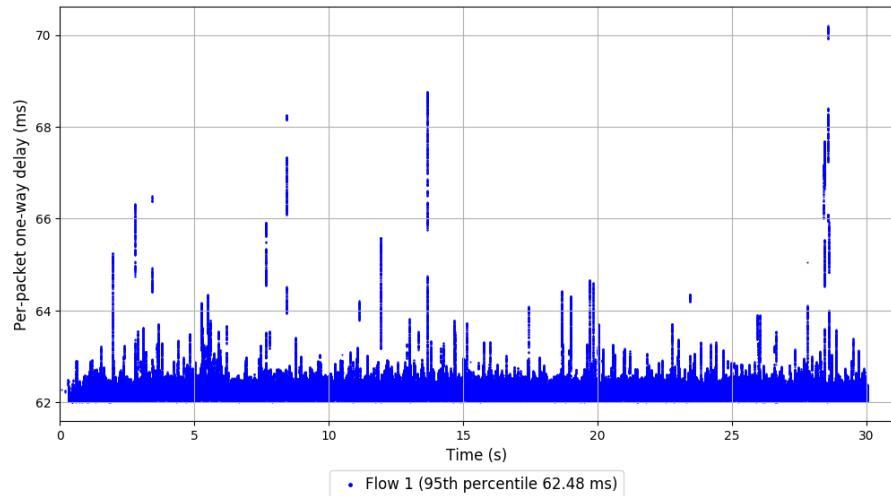
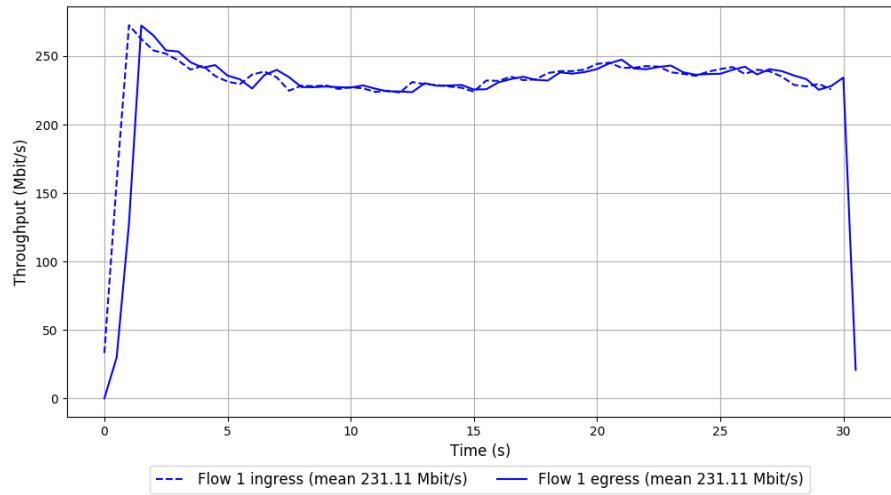


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-21 16:05:47
End at: 2019-01-21 16:06:17
Local clock offset: -0.033 ms
Remote clock offset: -0.786 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.11 Mbit/s
95th percentile per-packet one-way delay: 62.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.11 Mbit/s
95th percentile per-packet one-way delay: 62.483 ms
Loss rate: 0.00%
```

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

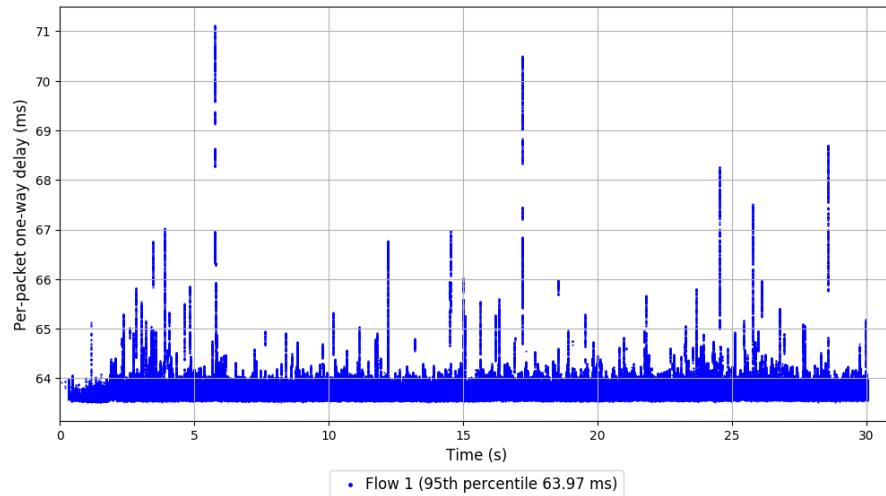
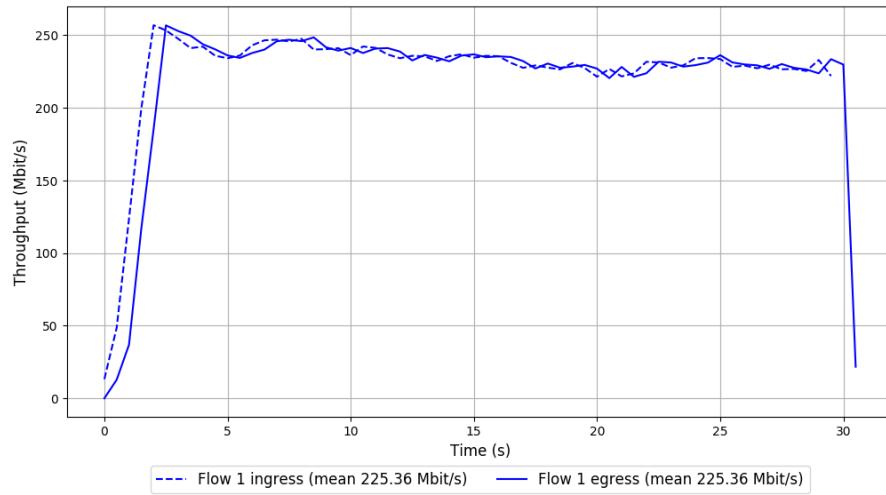


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-21 16:36:36
End at: 2019-01-21 16:37:06
Local clock offset: 0.041 ms
Remote clock offset: 0.659 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.36 Mbit/s
95th percentile per-packet one-way delay: 63.965 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.36 Mbit/s
95th percentile per-packet one-way delay: 63.965 ms
Loss rate: 0.00%
```

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

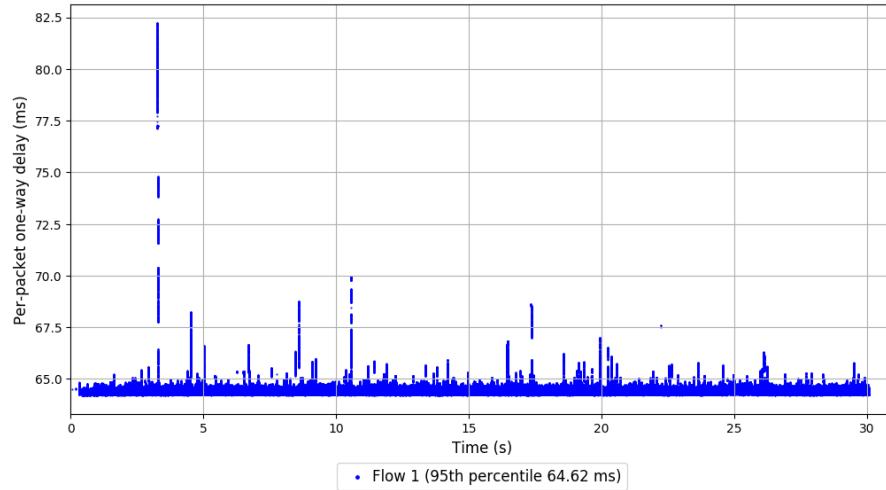
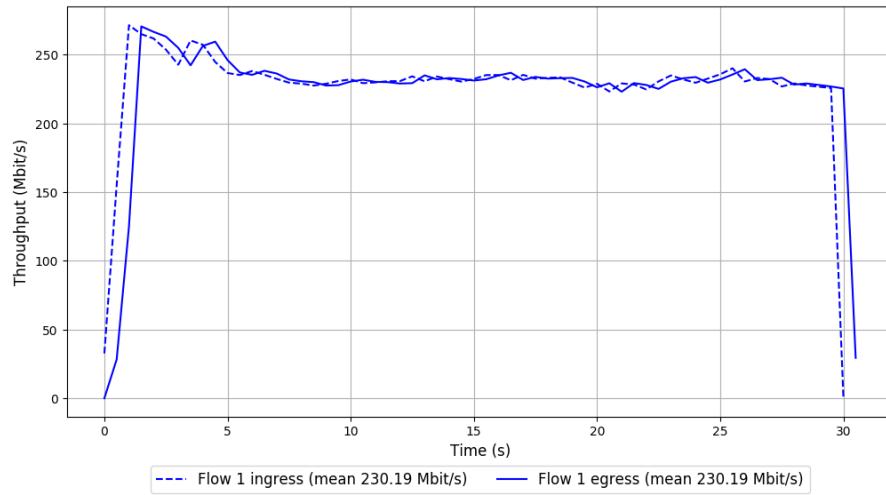


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-21 17:07:40
End at: 2019-01-21 17:08:10
Local clock offset: -0.081 ms
Remote clock offset: 1.312 ms

# Below is generated by plot.py at 2019-01-21 20:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.19 Mbit/s
95th percentile per-packet one-way delay: 64.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.19 Mbit/s
95th percentile per-packet one-way delay: 64.623 ms
Loss rate: 0.00%
```

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

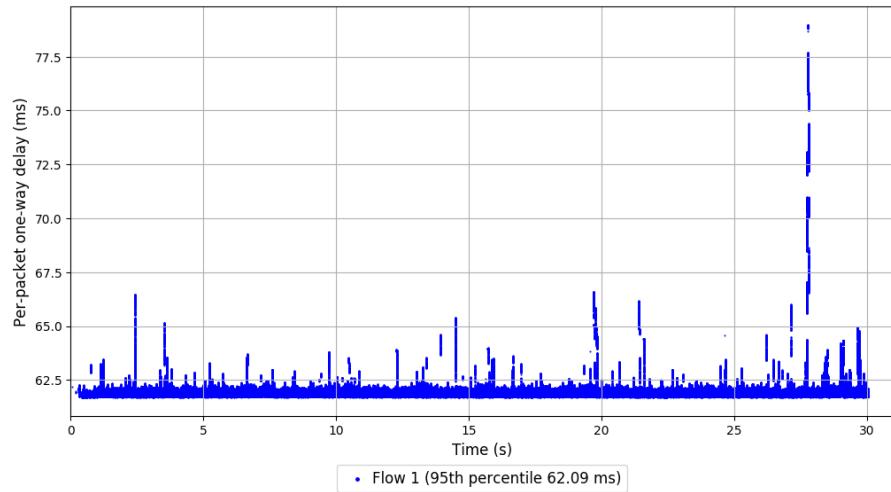
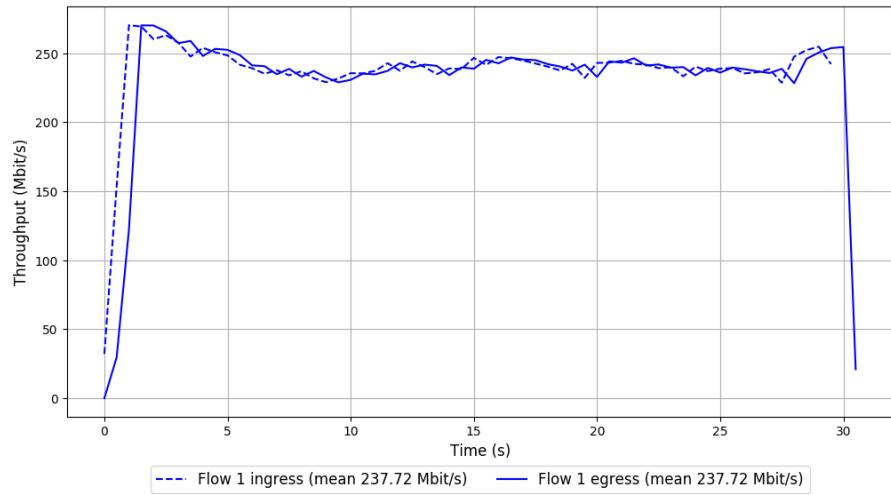


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-21 17:38:59
End at: 2019-01-21 17:39:29
Local clock offset: 0.076 ms
Remote clock offset: -0.797 ms

# Below is generated by plot.py at 2019-01-21 20:28:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 237.72 Mbit/s
95th percentile per-packet one-way delay: 62.092 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 237.72 Mbit/s
95th percentile per-packet one-way delay: 62.092 ms
Loss rate: 0.00%
```

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

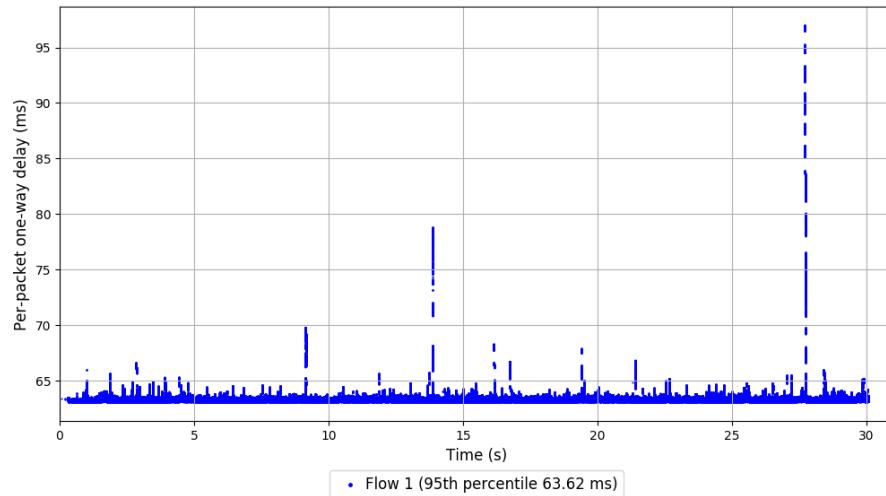
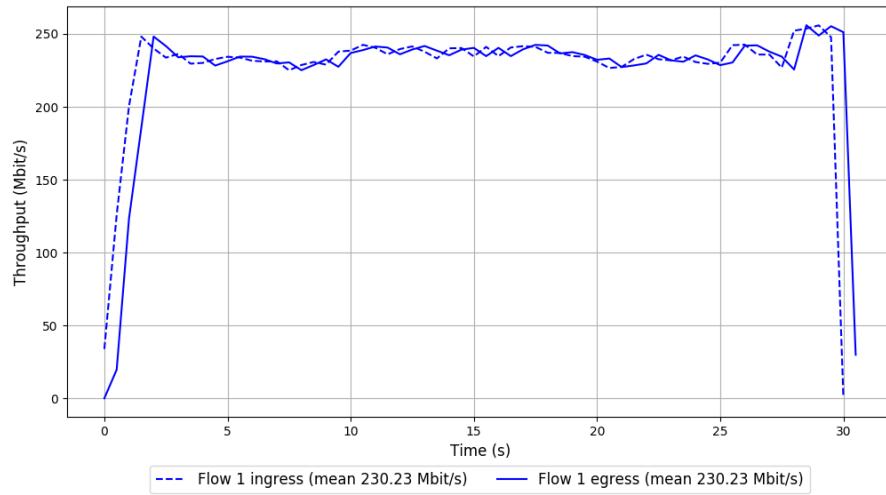


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-21 18:10:27
End at: 2019-01-21 18:10:57
Local clock offset: -0.067 ms
Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2019-01-21 20:28:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.23 Mbit/s
95th percentile per-packet one-way delay: 63.619 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.23 Mbit/s
95th percentile per-packet one-way delay: 63.619 ms
Loss rate: 0.00%
```

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

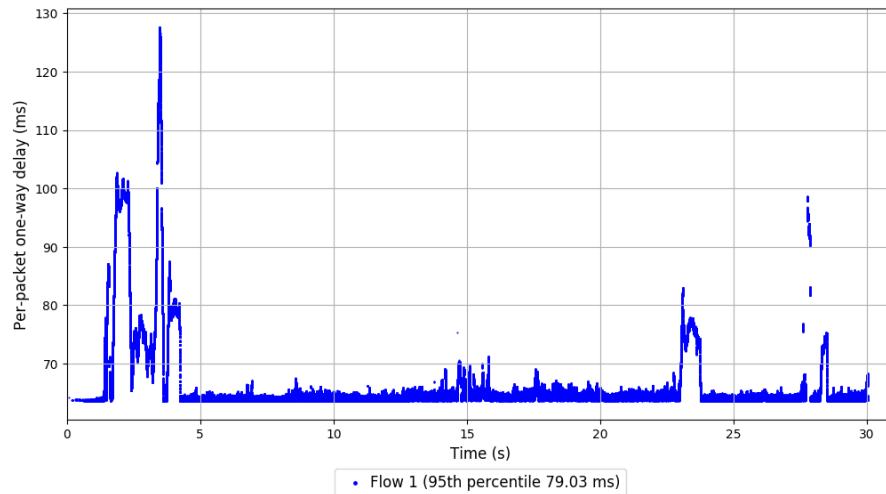
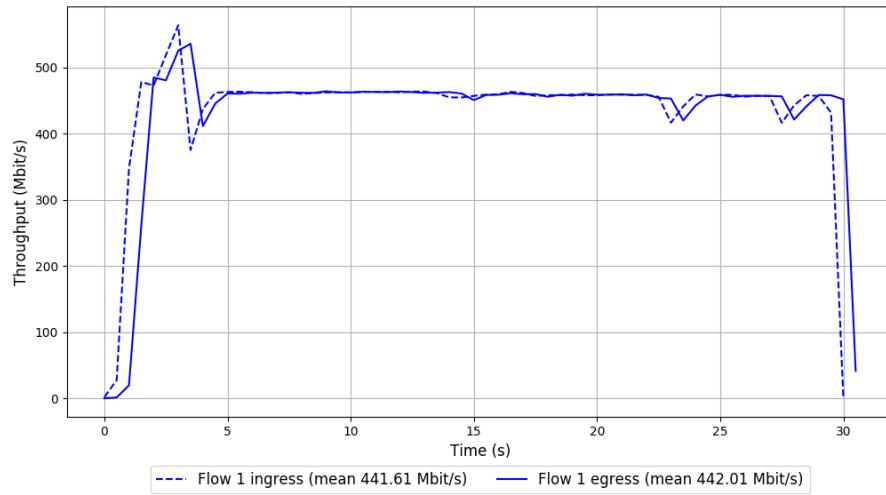


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-21 15:53:44
End at: 2019-01-21 15:54:14
Local clock offset: -0.002 ms
Remote clock offset: 0.71 ms

# Below is generated by plot.py at 2019-01-21 20:29:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 442.01 Mbit/s
95th percentile per-packet one-way delay: 79.028 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 442.01 Mbit/s
95th percentile per-packet one-way delay: 79.028 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

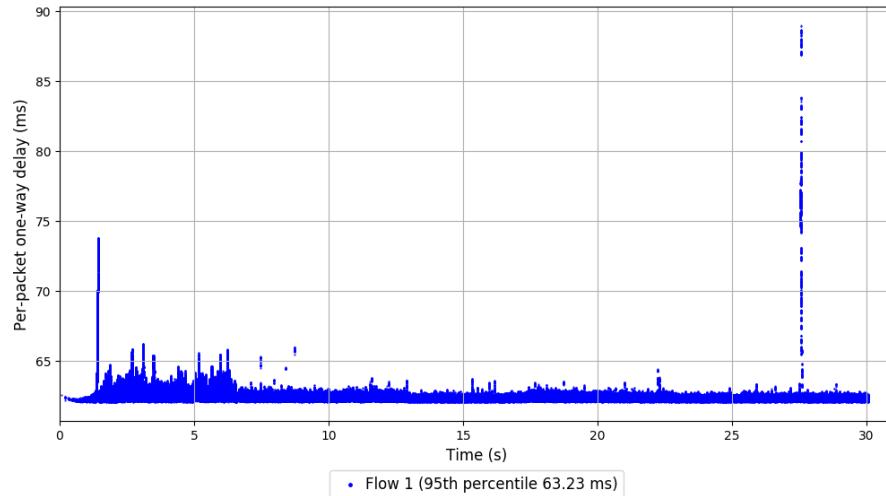
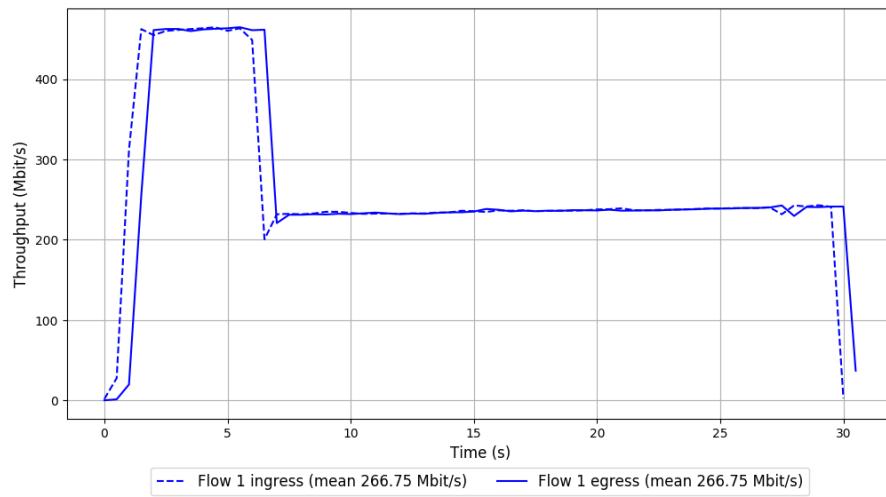


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-21 16:25:01
End at: 2019-01-21 16:25:31
Local clock offset: 0.005 ms
Remote clock offset: -0.645 ms

# Below is generated by plot.py at 2019-01-21 20:34:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 266.75 Mbit/s
95th percentile per-packet one-way delay: 63.230 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 266.75 Mbit/s
95th percentile per-packet one-way delay: 63.230 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

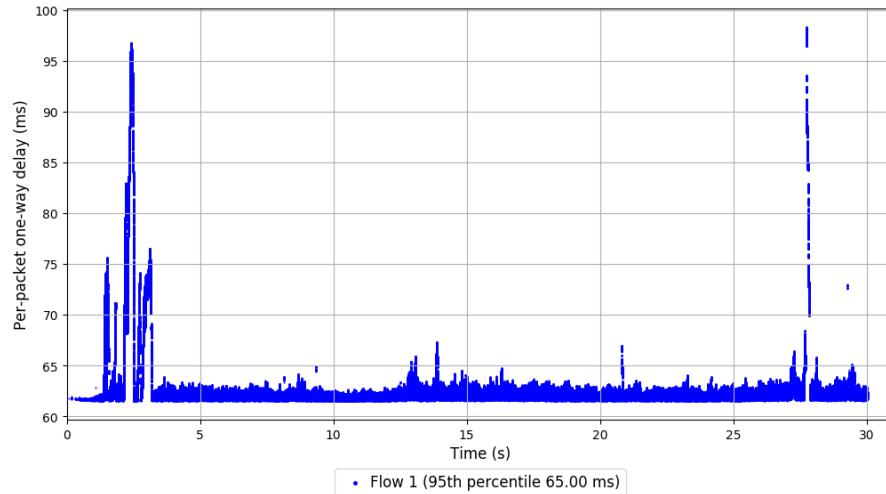
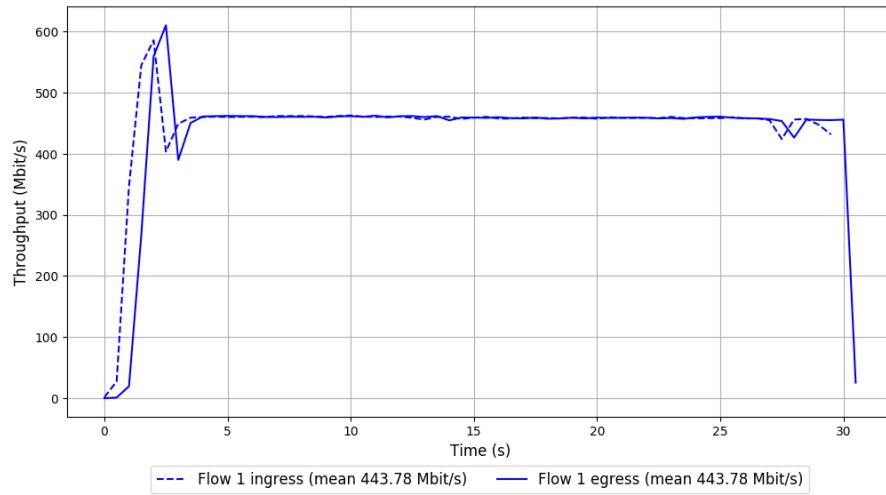


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-21 16:55:45
End at: 2019-01-21 16:56:15
Local clock offset: -0.07 ms
Remote clock offset: -1.215 ms

# Below is generated by plot.py at 2019-01-21 20:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 443.78 Mbit/s
95th percentile per-packet one-way delay: 65.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 443.78 Mbit/s
95th percentile per-packet one-way delay: 65.000 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

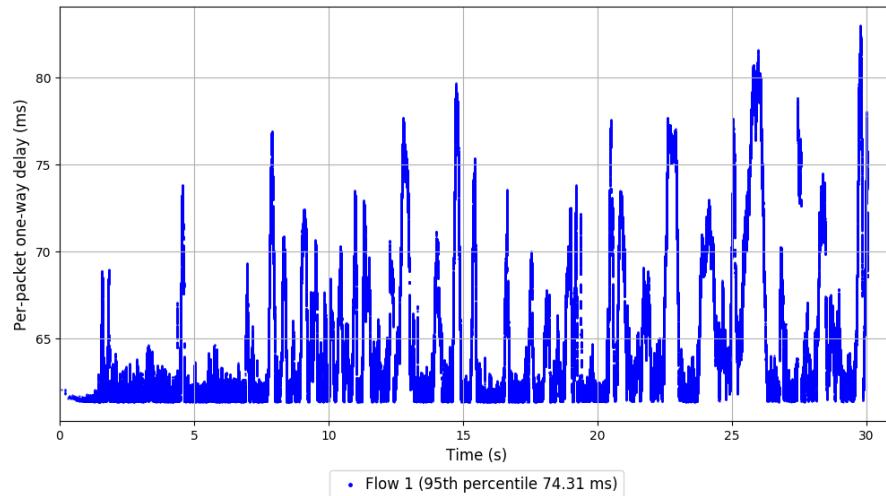
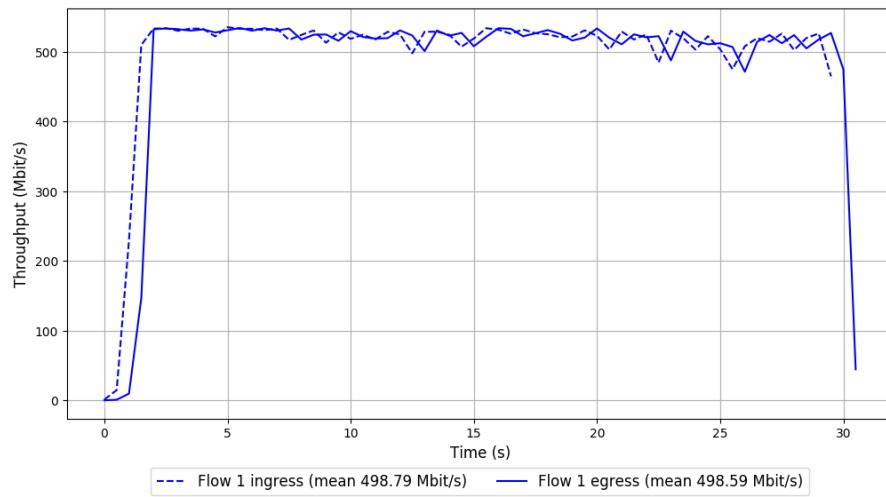


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-21 17:26:51
End at: 2019-01-21 17:27:21
Local clock offset: 0.116 ms
Remote clock offset: -1.348 ms

# Below is generated by plot.py at 2019-01-21 20:39:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 498.59 Mbit/s
95th percentile per-packet one-way delay: 74.314 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 498.59 Mbit/s
95th percentile per-packet one-way delay: 74.314 ms
Loss rate: 0.04%
```

Run 4: Report of TCP Vegas — Data Link

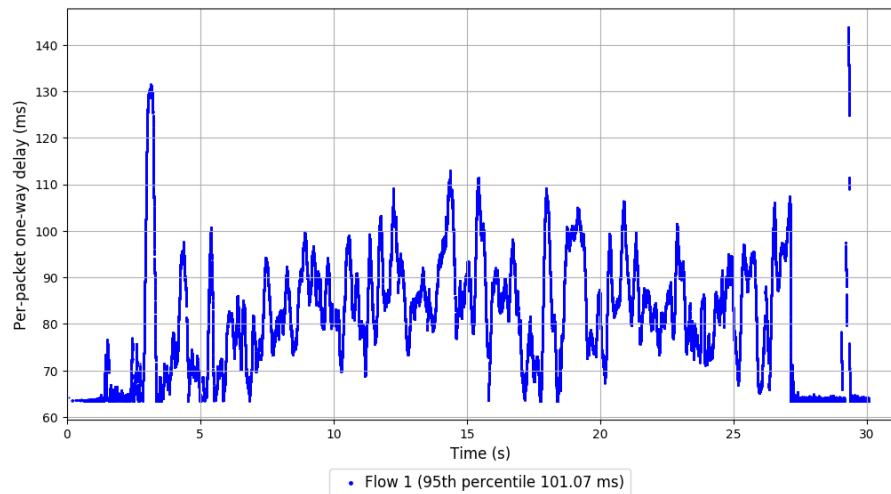
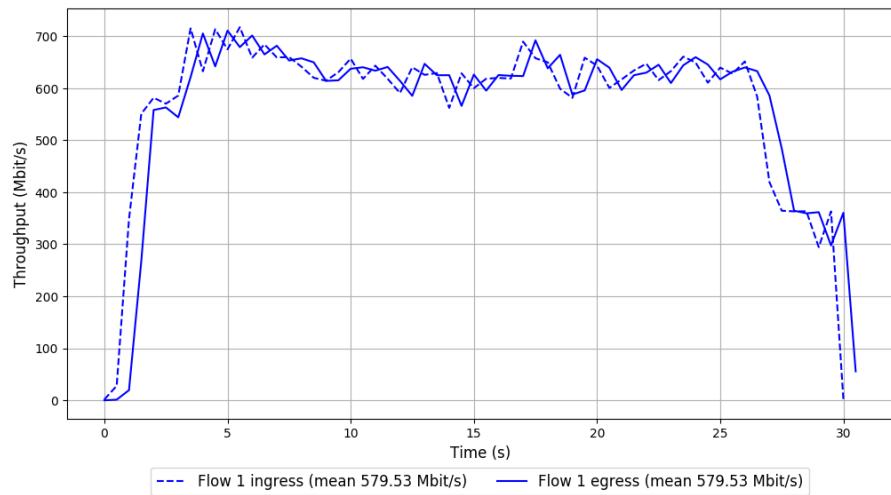


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-21 17:58:13
End at: 2019-01-21 17:58:43
Local clock offset: 0.083 ms
Remote clock offset: 0.684 ms

# Below is generated by plot.py at 2019-01-21 20:41:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.53 Mbit/s
95th percentile per-packet one-way delay: 101.069 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 579.53 Mbit/s
95th percentile per-packet one-way delay: 101.069 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

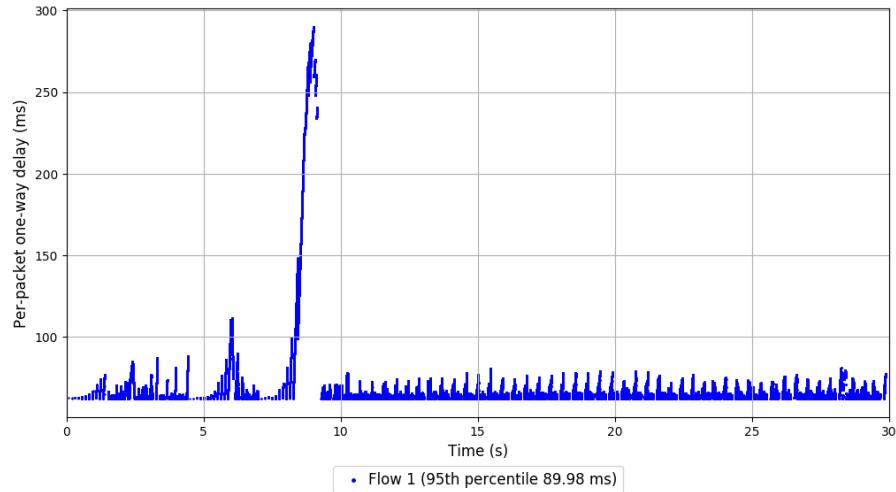
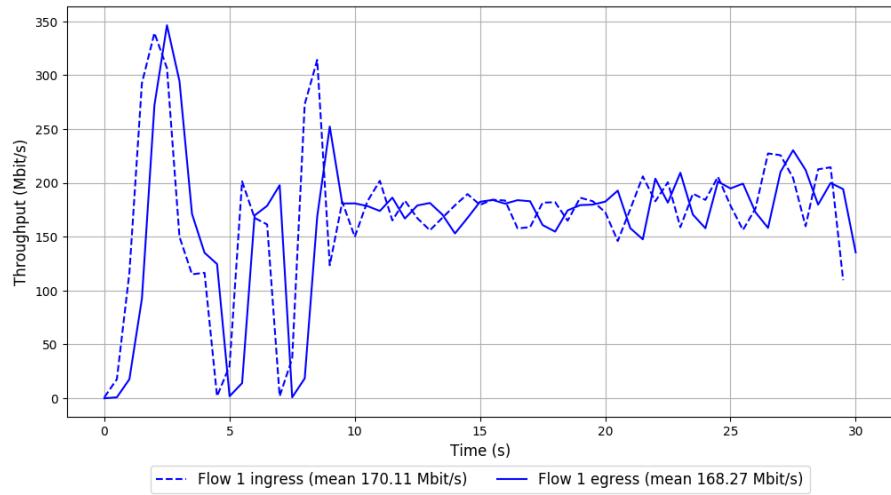


Run 1: Statistics of Verus

```
Start at: 2019-01-21 15:56:53
End at: 2019-01-21 15:57:23
Local clock offset: 0.013 ms
Remote clock offset: -0.846 ms

# Below is generated by plot.py at 2019-01-21 20:41:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.27 Mbit/s
95th percentile per-packet one-way delay: 89.977 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 168.27 Mbit/s
95th percentile per-packet one-way delay: 89.977 ms
Loss rate: 1.08%
```

Run 1: Report of Verus — Data Link

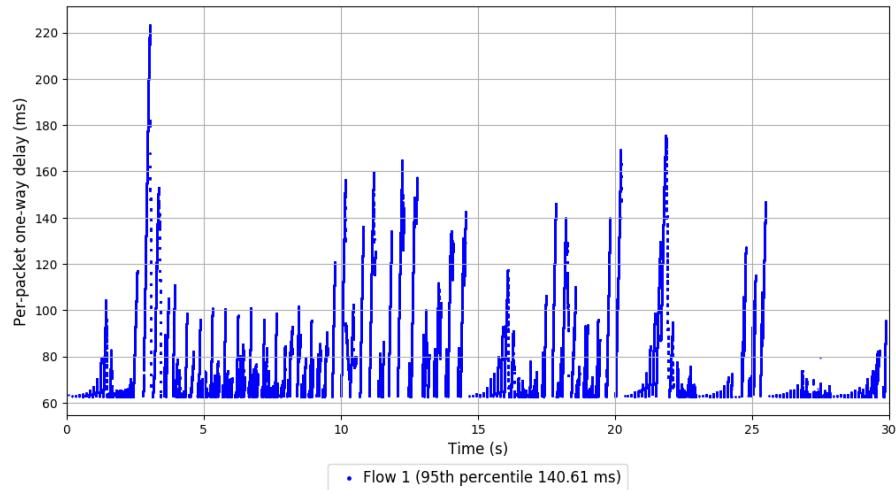
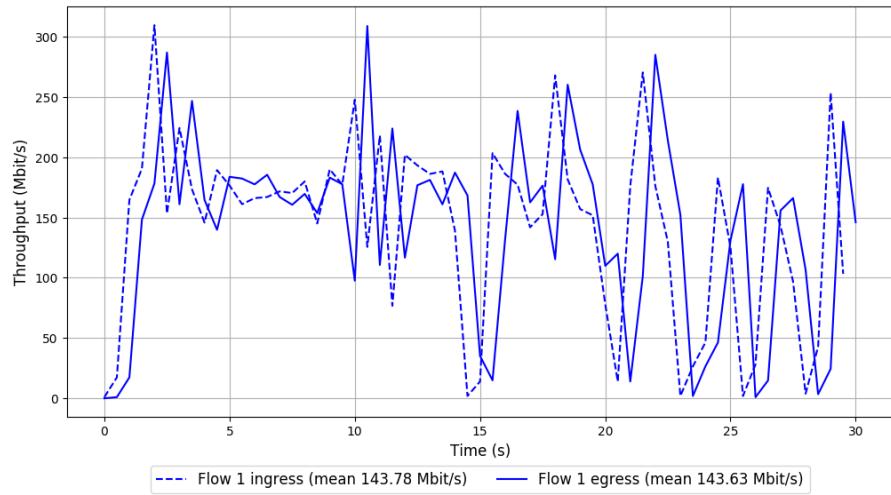


Run 2: Statistics of Verus

```
Start at: 2019-01-21 16:27:56
End at: 2019-01-21 16:28:26
Local clock offset: 0.017 ms
Remote clock offset: -0.449 ms

# Below is generated by plot.py at 2019-01-21 20:41:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 143.63 Mbit/s
95th percentile per-packet one-way delay: 140.606 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 143.63 Mbit/s
95th percentile per-packet one-way delay: 140.606 ms
Loss rate: 0.00%
```

Run 2: Report of Verus — Data Link

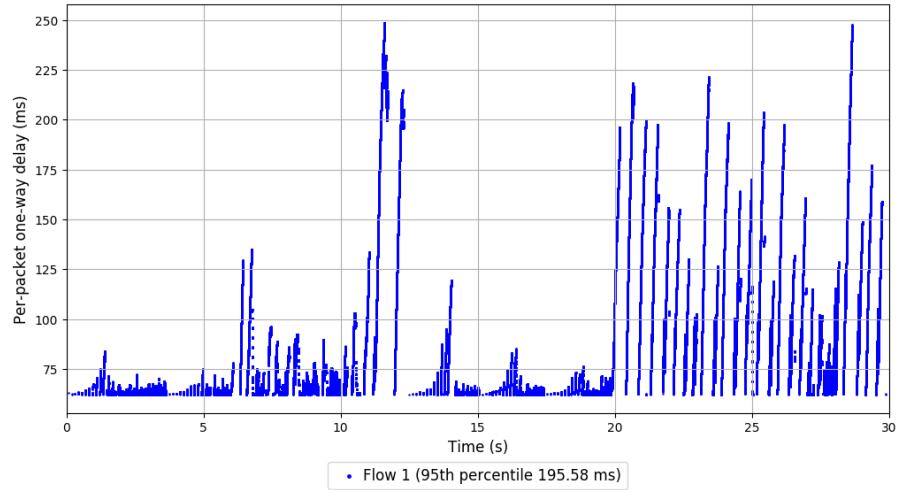
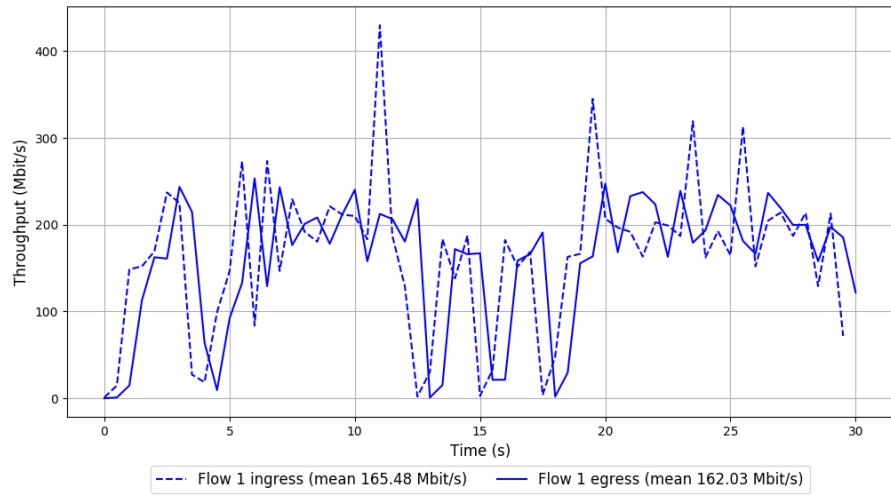


Run 3: Statistics of Verus

```
Start at: 2019-01-21 16:58:52
End at: 2019-01-21 16:59:22
Local clock offset: -0.064 ms
Remote clock offset: -0.861 ms

# Below is generated by plot.py at 2019-01-21 20:41:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 162.03 Mbit/s
95th percentile per-packet one-way delay: 195.583 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 162.03 Mbit/s
95th percentile per-packet one-way delay: 195.583 ms
Loss rate: 2.09%
```

Run 3: Report of Verus — Data Link

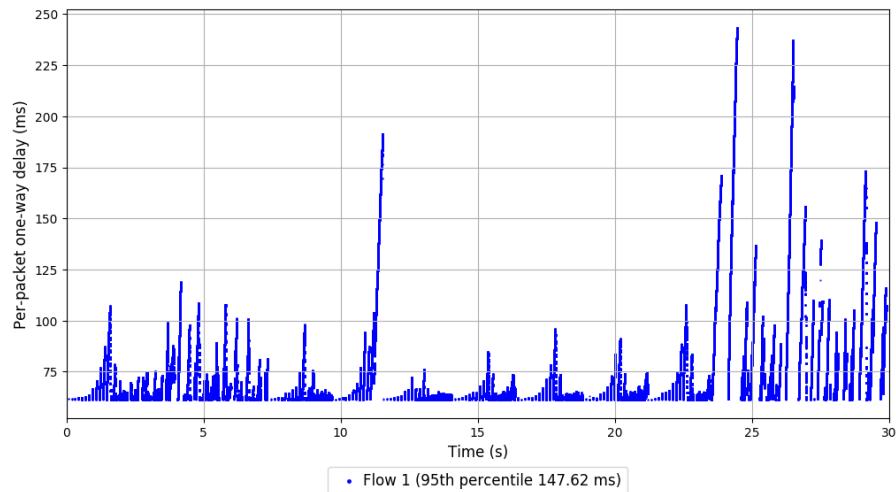
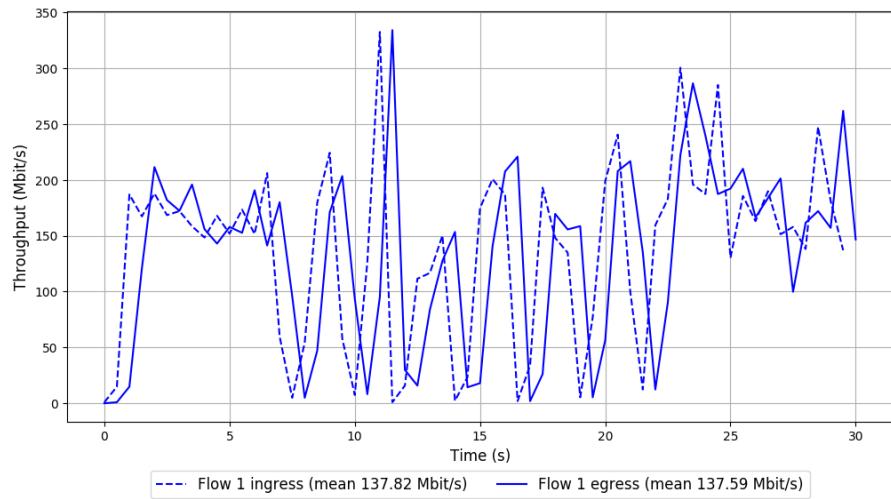


Run 4: Statistics of Verus

```
Start at: 2019-01-21 17:30:03
End at: 2019-01-21 17:30:33
Local clock offset: 0.075 ms
Remote clock offset: -1.344 ms

# Below is generated by plot.py at 2019-01-21 20:41:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 137.59 Mbit/s
95th percentile per-packet one-way delay: 147.620 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 137.59 Mbit/s
95th percentile per-packet one-way delay: 147.620 ms
Loss rate: 0.17%
```

Run 4: Report of Verus — Data Link

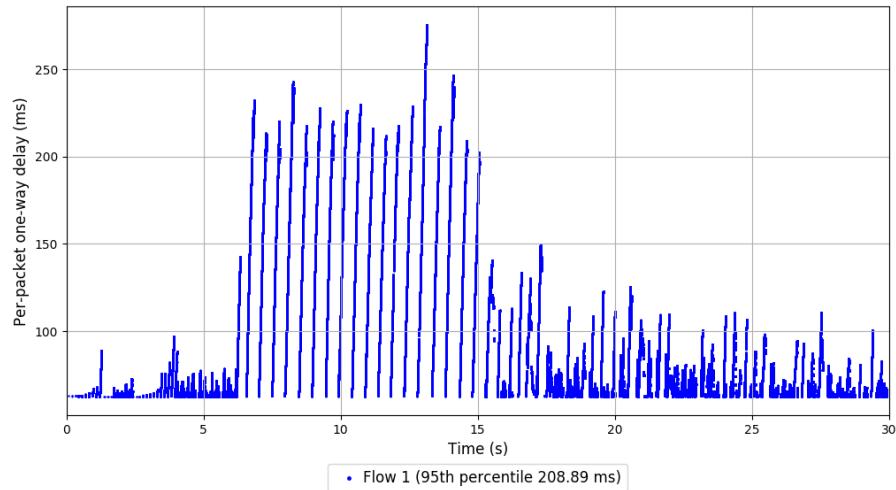
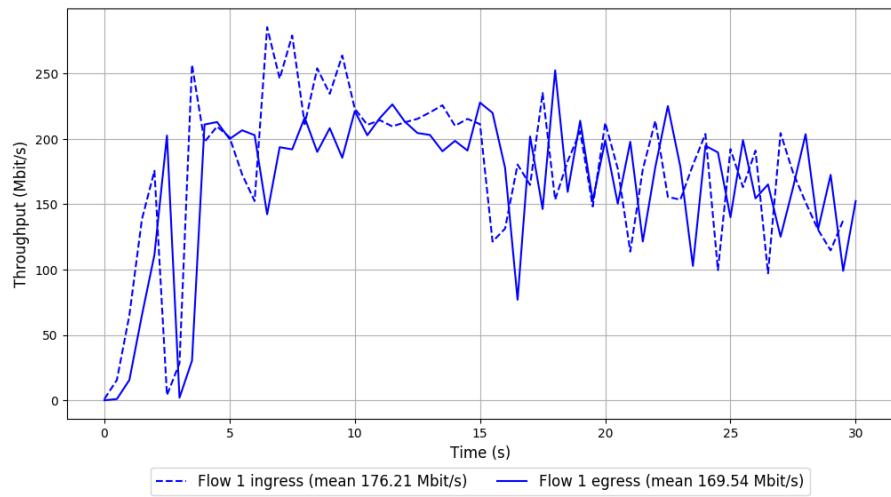


Run 5: Statistics of Verus

```
Start at: 2019-01-21 18:01:25
End at: 2019-01-21 18:01:55
Local clock offset: -0.092 ms
Remote clock offset: -0.677 ms

# Below is generated by plot.py at 2019-01-21 20:41:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.54 Mbit/s
95th percentile per-packet one-way delay: 208.889 ms
Loss rate: 3.79%
-- Flow 1:
Average throughput: 169.54 Mbit/s
95th percentile per-packet one-way delay: 208.889 ms
Loss rate: 3.79%
```

Run 5: Report of Verus — Data Link

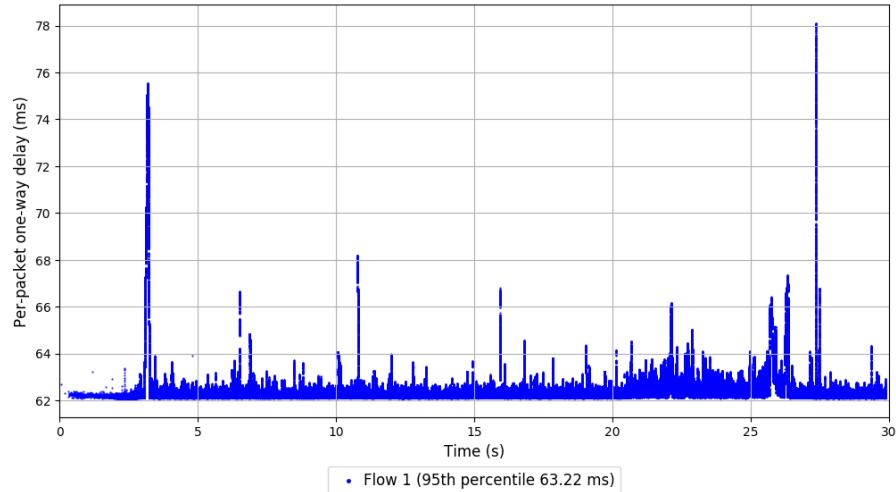
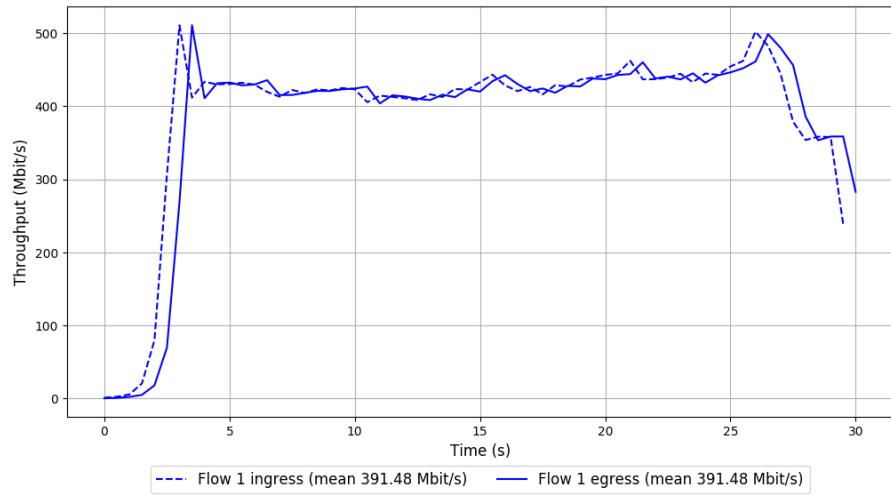


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-21 15:39:04
End at: 2019-01-21 15:39:34
Local clock offset: -0.059 ms
Remote clock offset: -0.686 ms

# Below is generated by plot.py at 2019-01-21 20:43:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 391.48 Mbit/s
95th percentile per-packet one-way delay: 63.217 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 391.48 Mbit/s
95th percentile per-packet one-way delay: 63.217 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

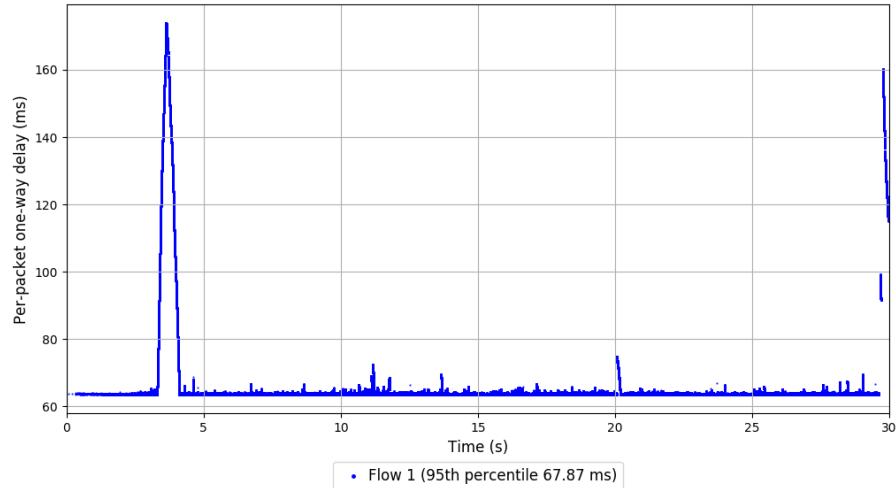
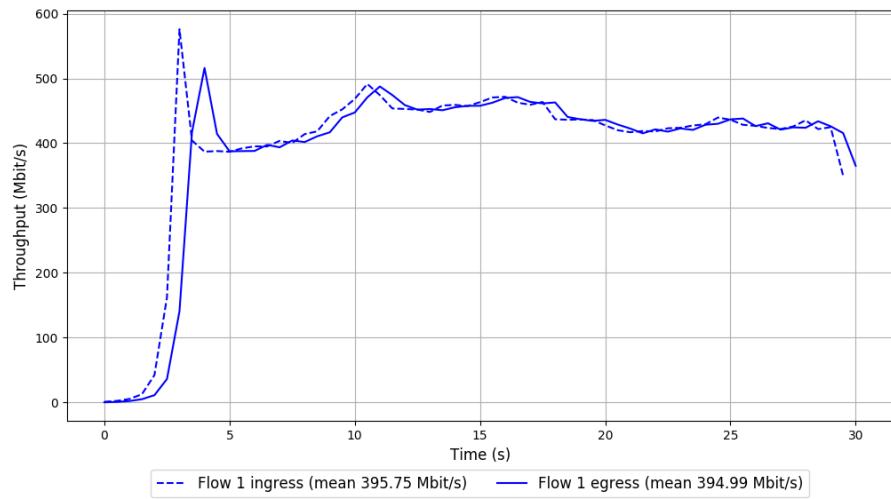


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-21 16:10:02
End at: 2019-01-21 16:10:32
Local clock offset: 0.025 ms
Remote clock offset: 0.796 ms

# Below is generated by plot.py at 2019-01-21 20:43:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 394.99 Mbit/s
95th percentile per-packet one-way delay: 67.874 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 394.99 Mbit/s
95th percentile per-packet one-way delay: 67.874 ms
Loss rate: 0.19%
```

Run 2: Report of PCC-Vivace — Data Link

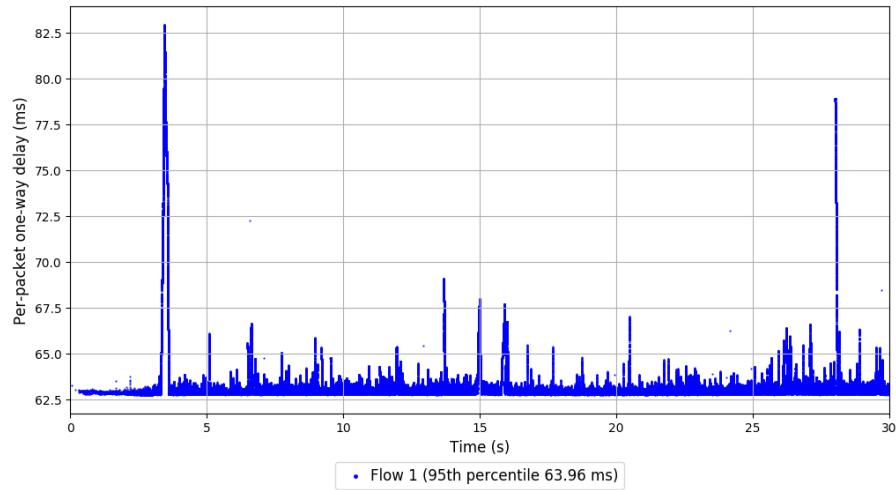
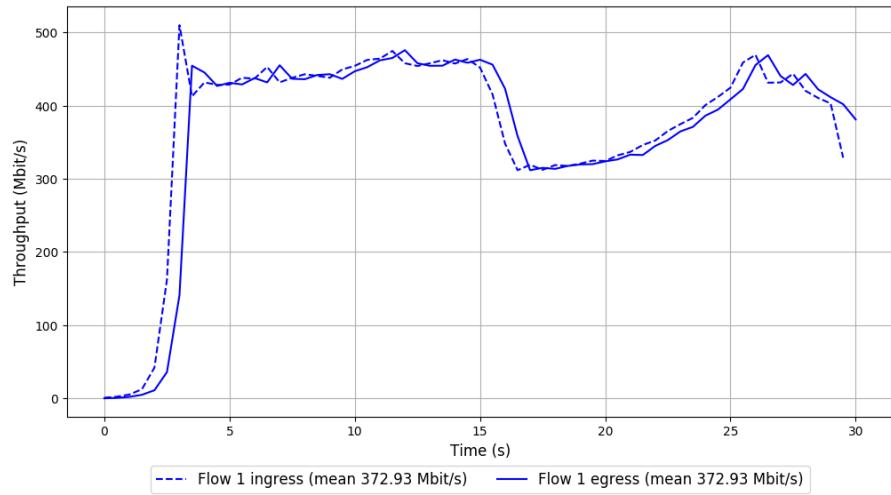


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-21 16:40:50
End at: 2019-01-21 16:41:20
Local clock offset: -0.019 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-01-21 20:43:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 372.93 Mbit/s
95th percentile per-packet one-way delay: 63.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 372.93 Mbit/s
95th percentile per-packet one-way delay: 63.962 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

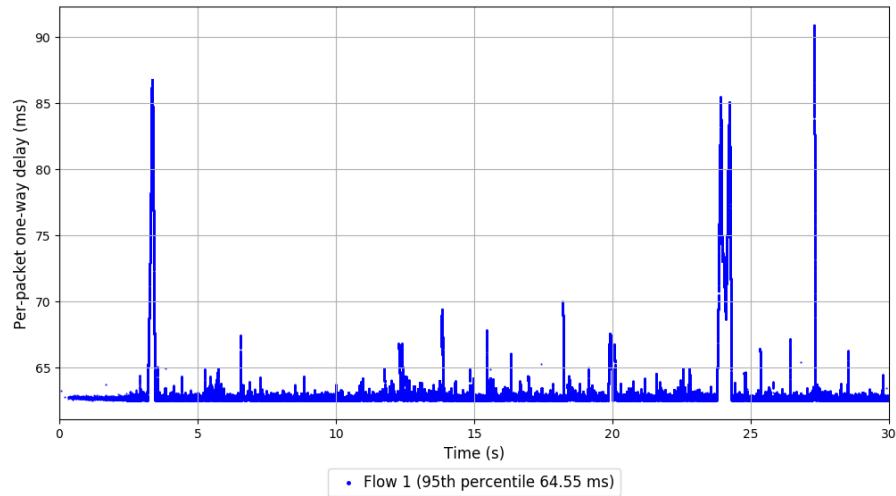
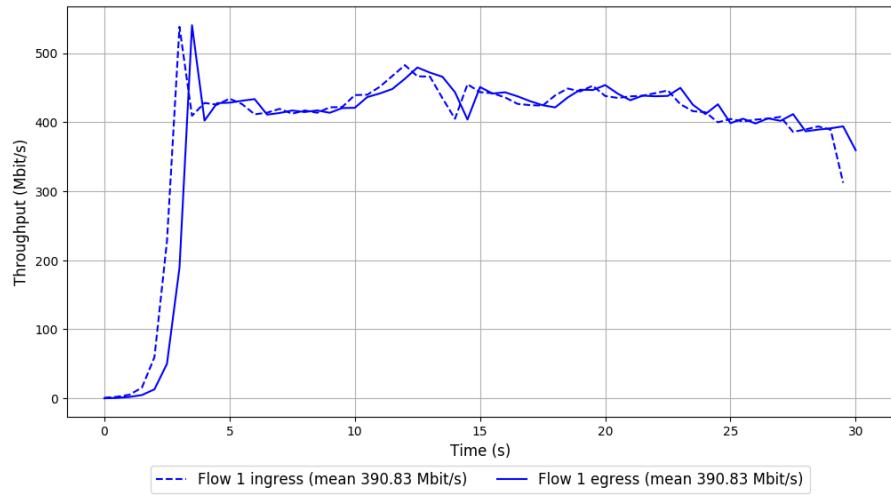


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-21 17:11:53
End at: 2019-01-21 17:12:23
Local clock offset: 0.055 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-01-21 20:43:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.83 Mbit/s
95th percentile per-packet one-way delay: 64.554 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 390.83 Mbit/s
95th percentile per-packet one-way delay: 64.554 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

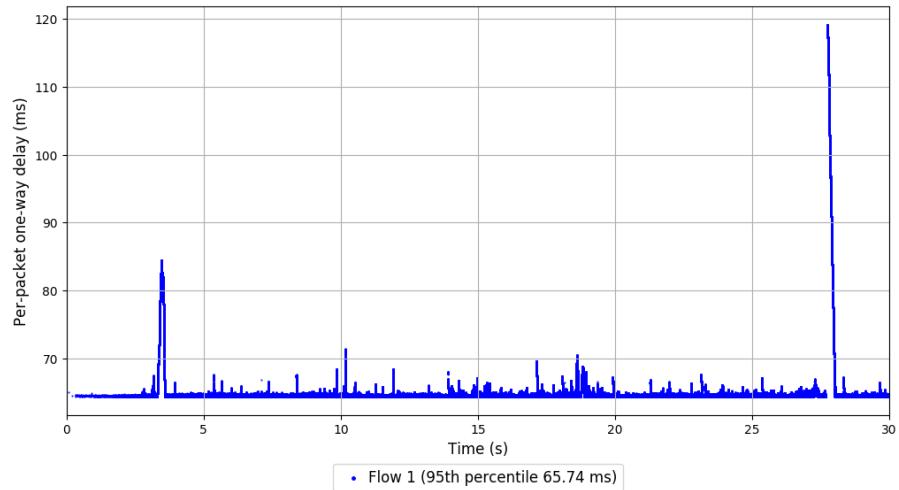
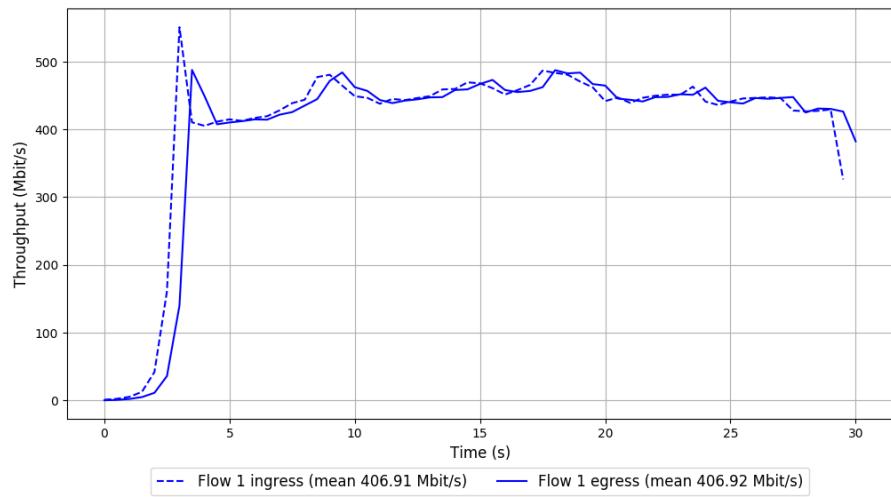


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-21 17:43:19
End at: 2019-01-21 17:43:49
Local clock offset: -0.051 ms
Remote clock offset: 1.243 ms

# Below is generated by plot.py at 2019-01-21 20:44:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 406.92 Mbit/s
95th percentile per-packet one-way delay: 65.739 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 406.92 Mbit/s
95th percentile per-packet one-way delay: 65.739 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

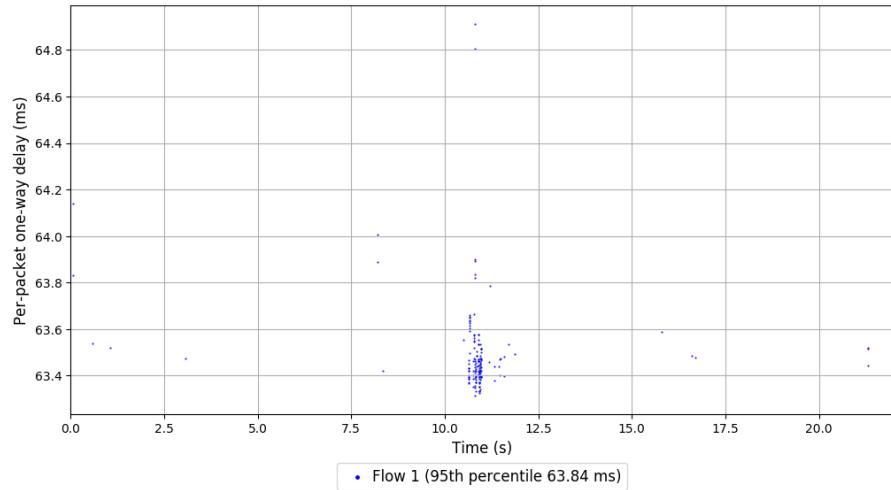
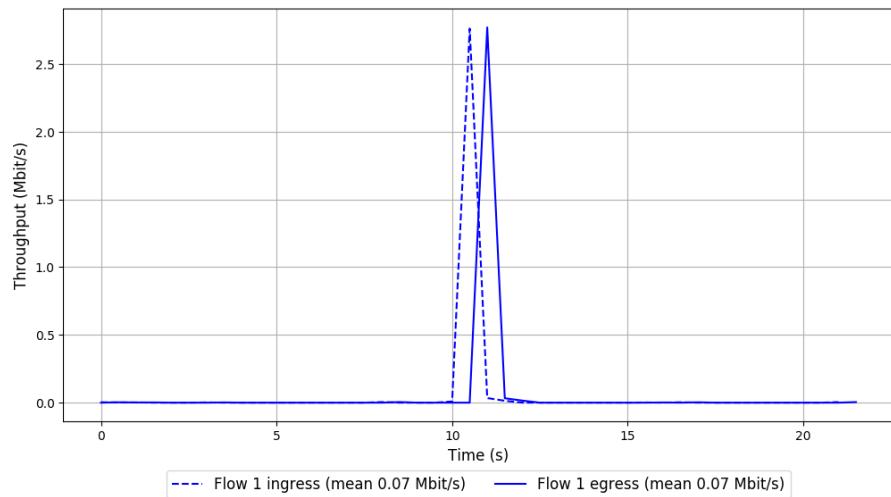
Start at: 2019-01-21 16:07:17

End at: 2019-01-21 16:07:47

Local clock offset: -0.019 ms

Remote clock offset: 0.106 ms

Run 1: Report of WebRTC media — Data Link

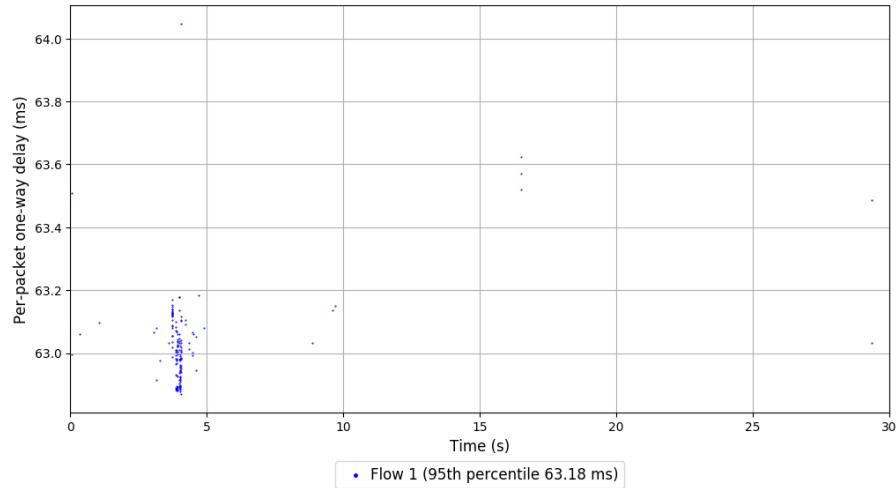
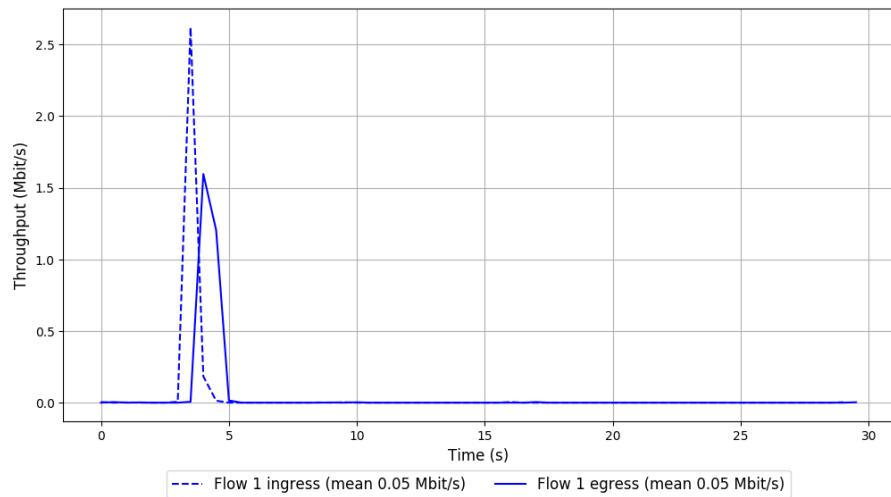


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-21 16:38:05
End at: 2019-01-21 16:38:35
Local clock offset: -0.017 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-01-21 20:44:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.177 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.177 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

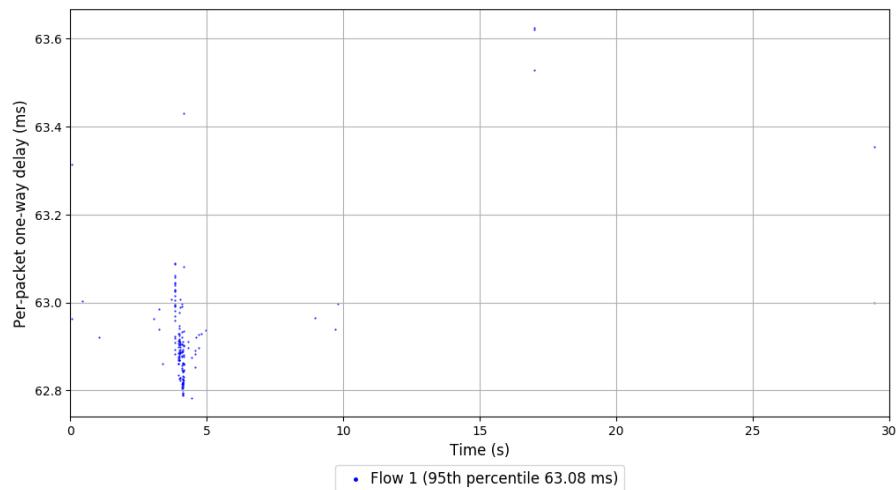
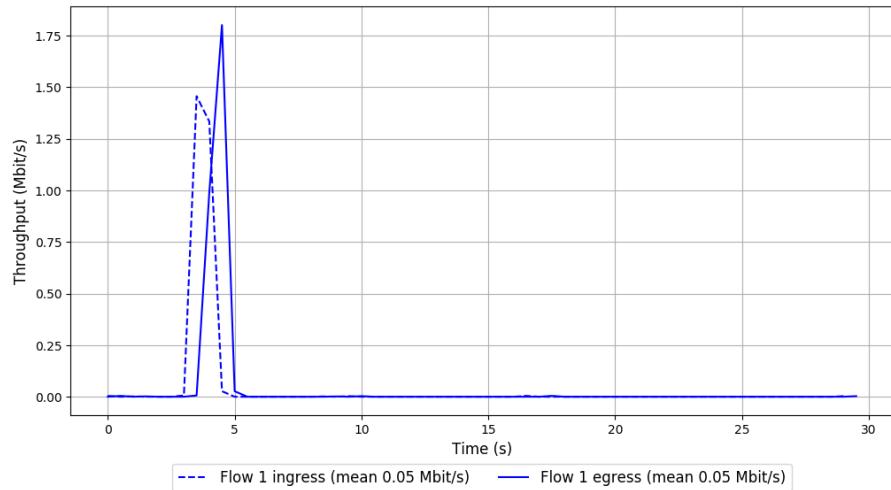


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-21 17:09:09
End at: 2019-01-21 17:09:39
Local clock offset: -0.106 ms
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2019-01-21 20:44:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.082 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.082 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

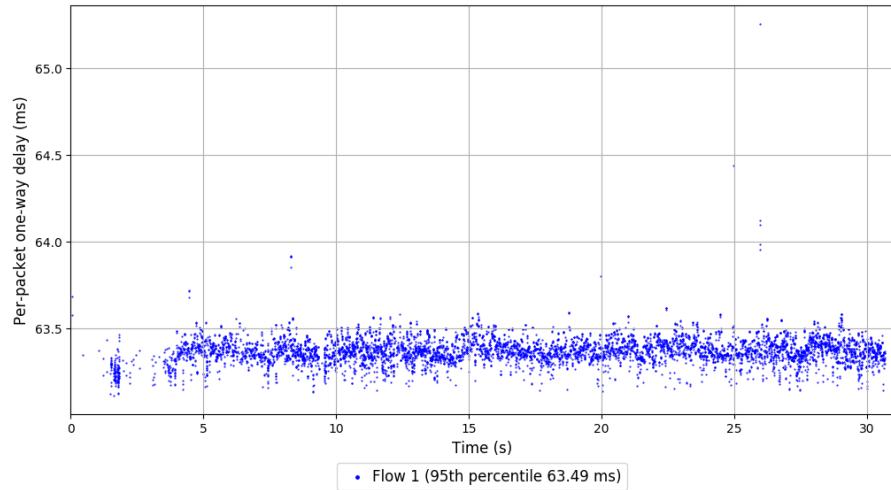
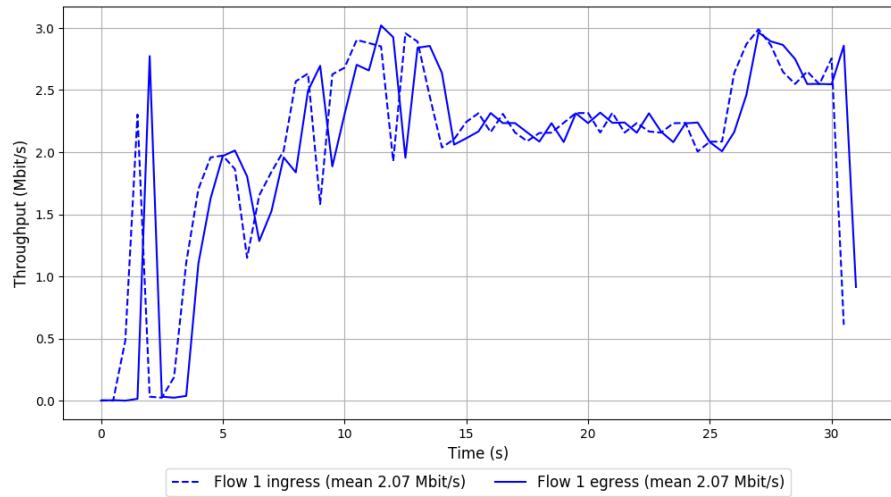


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-21 17:40:30
End at: 2019-01-21 17:41:00
Local clock offset: 0.053 ms
Remote clock offset: 0.327 ms

# Below is generated by plot.py at 2019-01-21 20:44:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 63.486 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 63.486 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-21 18:11:57
End at: 2019-01-21 18:12:27
Local clock offset: -0.055 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-01-21 20:44:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.268 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.268 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

