

Pantheon Report

Generated at 2019-01-21 08:40:08 (UTC).
Data path: GCE Tokyo on `ens4` (*local*) → GCE London on `ens4` (*remote*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

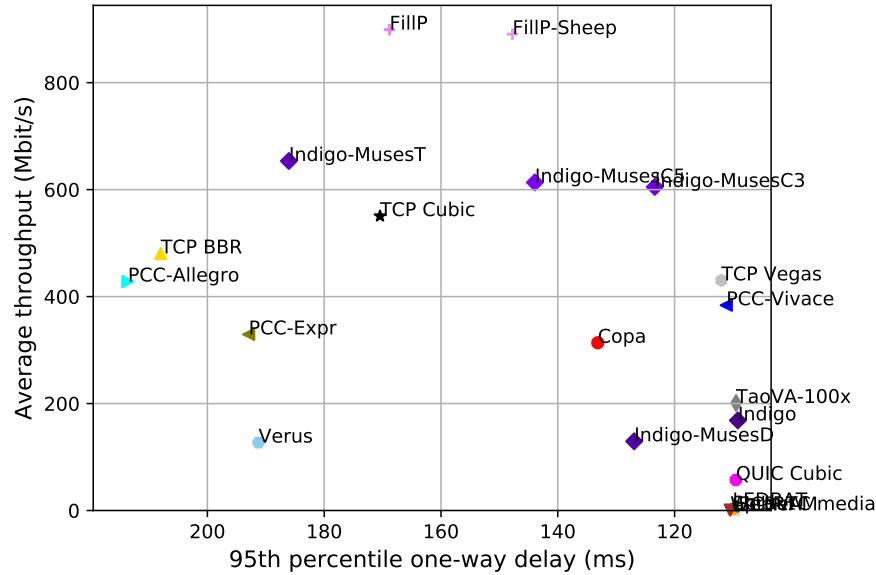
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

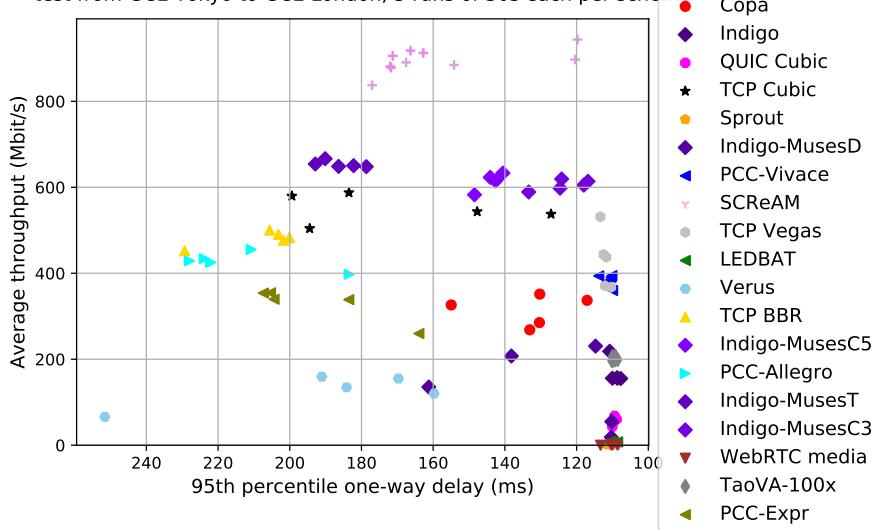
```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d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

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



test from GCE Tokyo to GCE London, 5 runs of 30s each per scheme



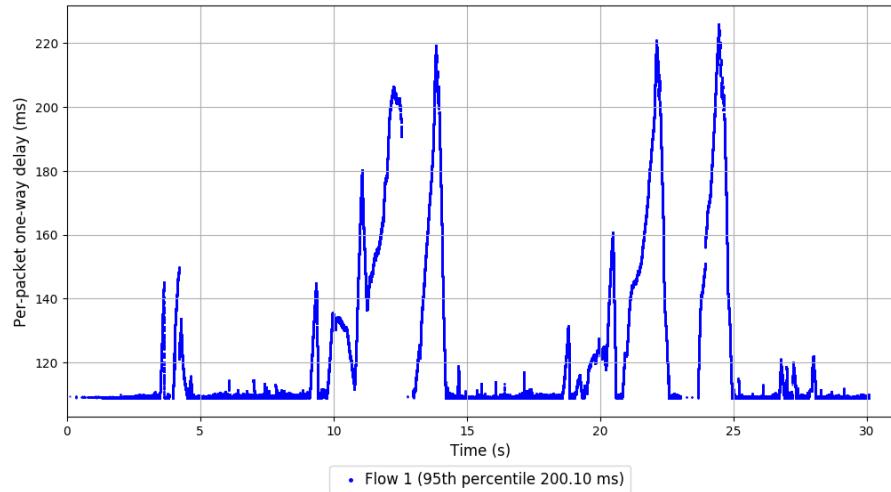
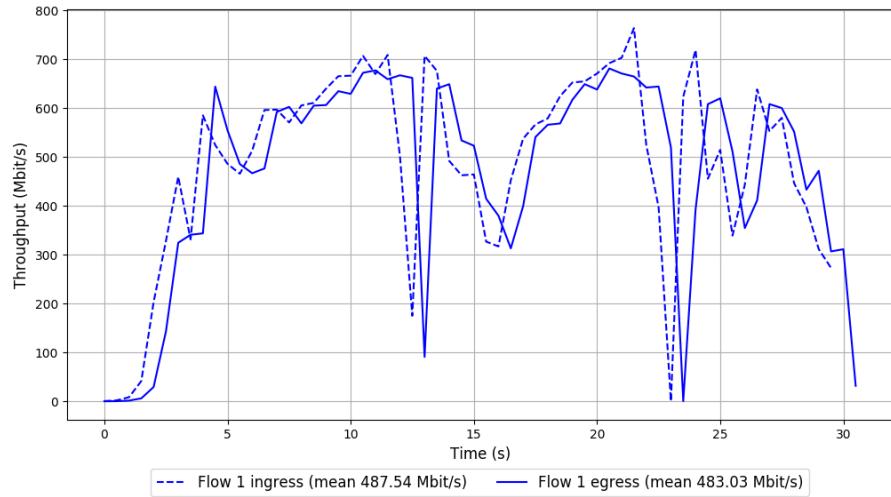
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	480.63	207.99	1.22
Copa	5	313.70	133.15	0.00
TCP Cubic	5	550.52	170.44	0.05
FillP	5	899.14	168.81	2.13
FillP-Sheep	5	890.74	147.76	0.79
Indigo	5	168.49	109.16	0.04
Indigo-MusesC3	5	605.06	123.39	0.00
Indigo-MusesC5	4	613.46	143.93	0.02
Indigo-MusesD	5	129.39	126.92	0.00
Indigo-MusesT	5	653.55	186.05	0.33
LEDBAT	5	7.87	110.09	0.00
PCC-Allegro	5	428.17	213.61	2.58
PCC-Expr	5	329.30	192.93	2.83
QUIC Cubic	5	57.24	109.50	0.00
SCReAM	5	0.22	109.08	0.00
Sprout	5	1.62	110.11	0.00
TaoVA-100x	5	201.05	109.47	0.00
TCP Vegas	5	430.31	111.99	0.03
Verus	5	127.03	191.25	1.29
PCC-Vivace	5	383.87	111.15	0.02
WebRTC media	5	0.78	110.47	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-21 03:43:01
End at: 2019-01-21 03:43:31
Local clock offset: 8.581 ms
Remote clock offset: 8.692 ms

# Below is generated by plot.py at 2019-01-21 06:37:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 483.03 Mbit/s
95th percentile per-packet one-way delay: 200.104 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 483.03 Mbit/s
95th percentile per-packet one-way delay: 200.104 ms
Loss rate: 0.93%
```

Run 1: Report of TCP BBR — Data Link

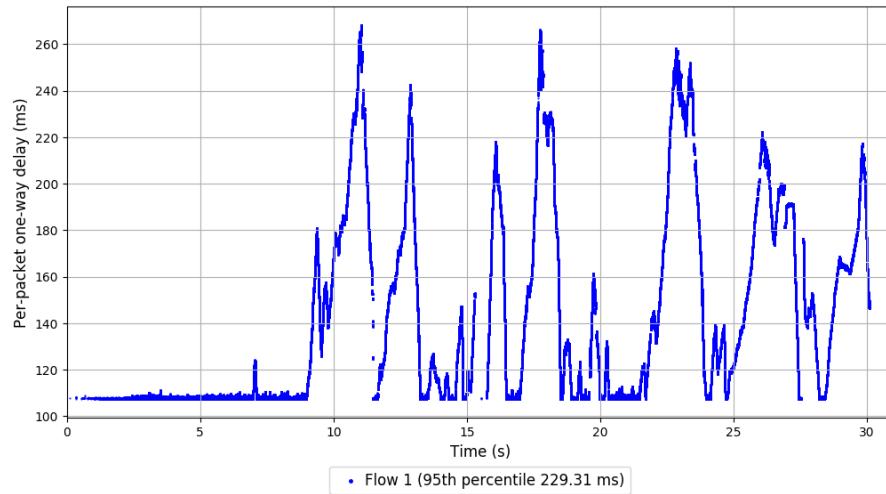
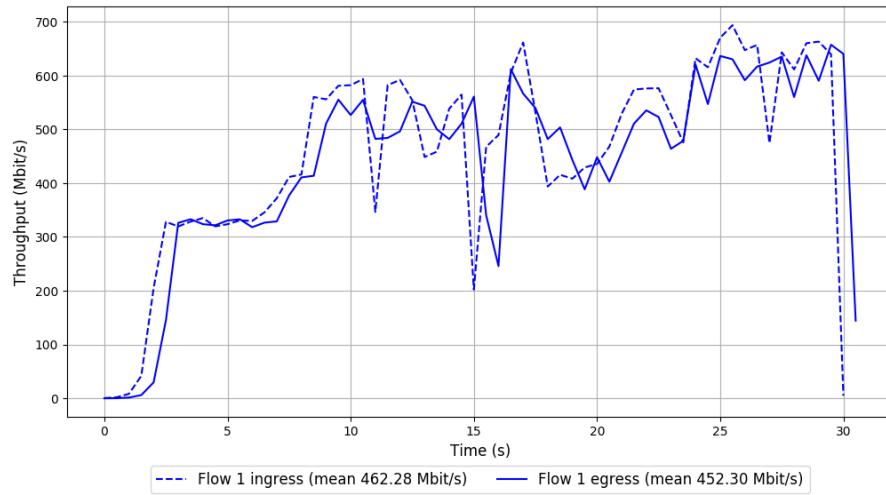


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-21 04:14:42
End at: 2019-01-21 04:15:12
Local clock offset: 18.481 ms
Remote clock offset: 18.808 ms

# Below is generated by plot.py at 2019-01-21 06:37:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 452.30 Mbit/s
95th percentile per-packet one-way delay: 229.314 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 452.30 Mbit/s
95th percentile per-packet one-way delay: 229.314 ms
Loss rate: 2.15%
```

Run 2: Report of TCP BBR — Data Link

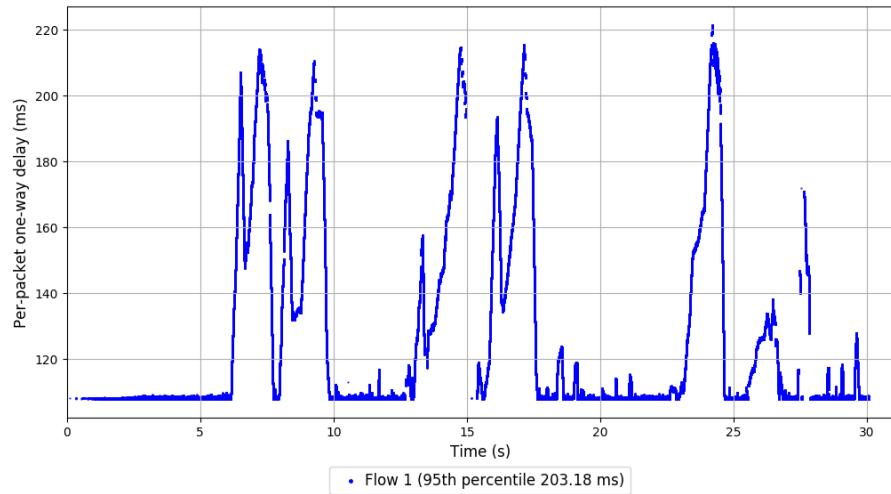
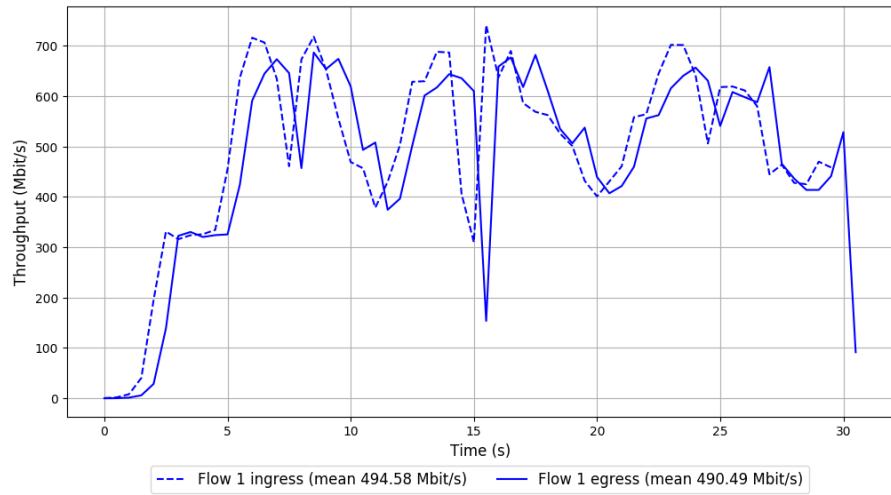


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-21 04:47:04
End at: 2019-01-21 04:47:34
Local clock offset: 22.809 ms
Remote clock offset: 22.534 ms

# Below is generated by plot.py at 2019-01-21 06:37:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 490.49 Mbit/s
95th percentile per-packet one-way delay: 203.175 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 490.49 Mbit/s
95th percentile per-packet one-way delay: 203.175 ms
Loss rate: 0.83%
```

Run 3: Report of TCP BBR — Data Link

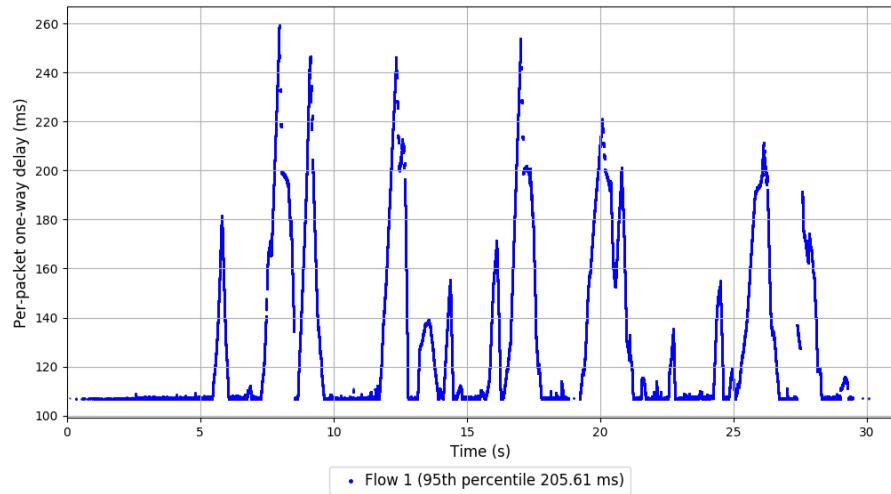
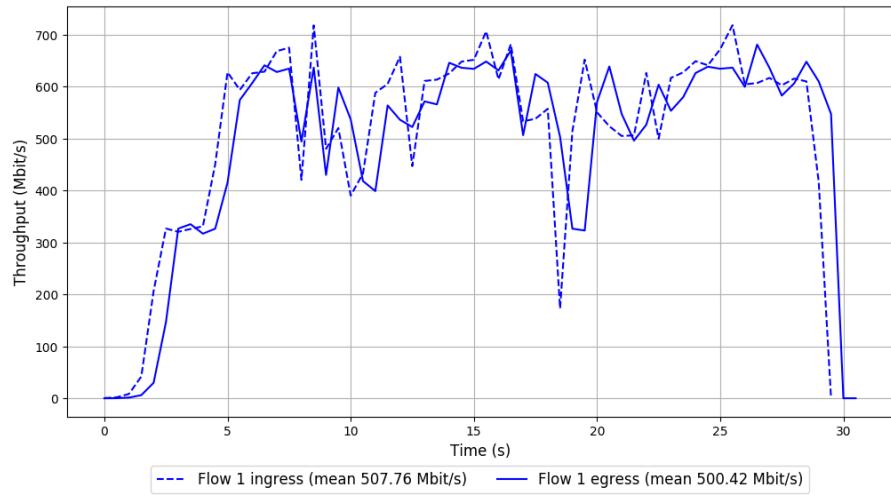


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-21 05:18:51
End at: 2019-01-21 05:19:21
Local clock offset: 14.514 ms
Remote clock offset: 13.866 ms

# Below is generated by plot.py at 2019-01-21 06:37:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 500.42 Mbit/s
95th percentile per-packet one-way delay: 205.608 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 500.42 Mbit/s
95th percentile per-packet one-way delay: 205.608 ms
Loss rate: 1.44%
```

Run 4: Report of TCP BBR — Data Link

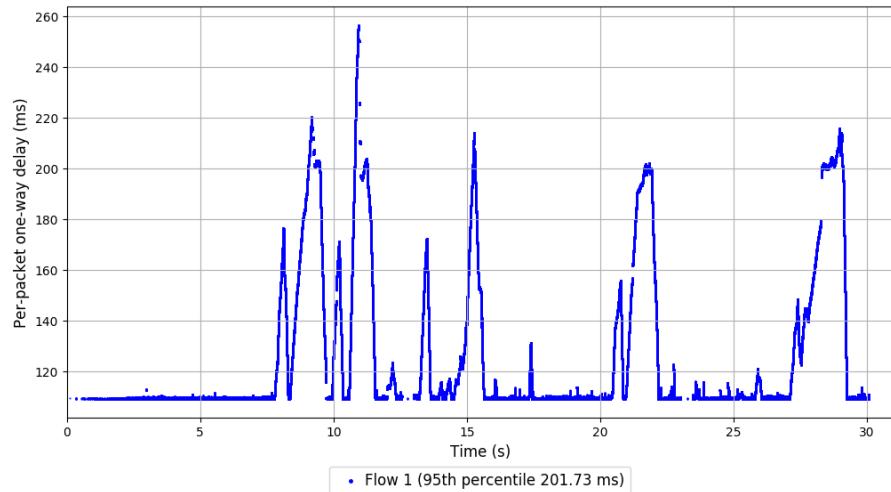
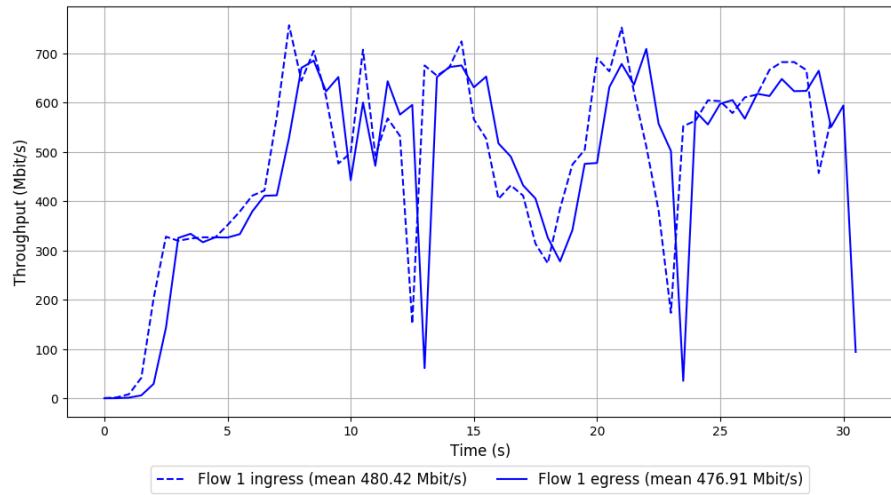


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-21 05:50:42
End at: 2019-01-21 05:51:12
Local clock offset: 6.528 ms
Remote clock offset: 8.057 ms

# Below is generated by plot.py at 2019-01-21 06:37:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 476.91 Mbit/s
95th percentile per-packet one-way delay: 201.729 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 476.91 Mbit/s
95th percentile per-packet one-way delay: 201.729 ms
Loss rate: 0.73%
```

Run 5: Report of TCP BBR — Data Link

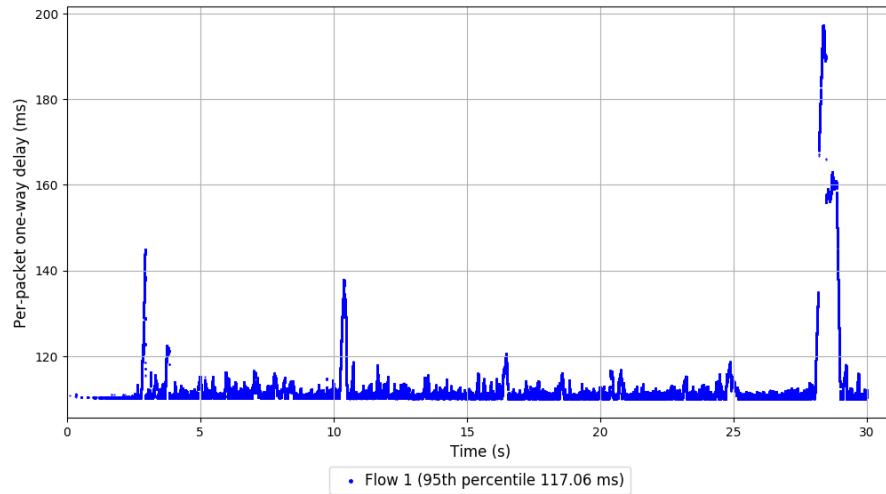
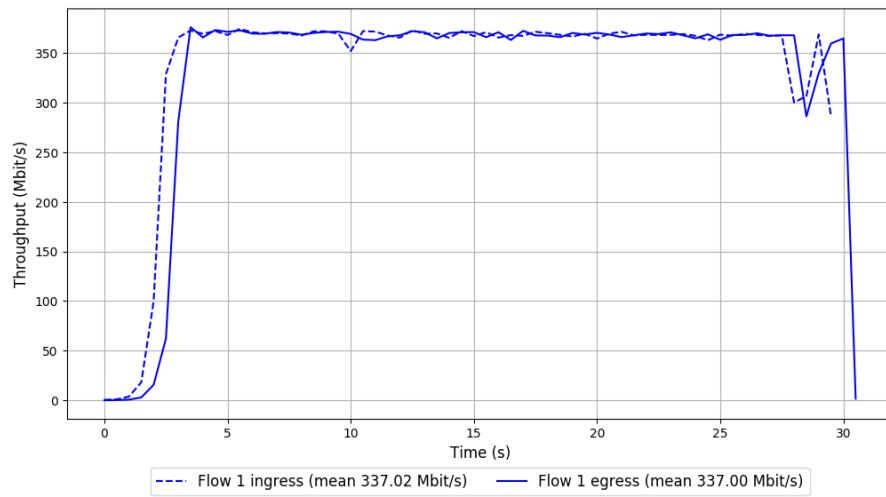


Run 1: Statistics of Copa

```
Start at: 2019-01-21 03:35:16
End at: 2019-01-21 03:35:46
Local clock offset: 3.569 ms
Remote clock offset: 4.692 ms

# Below is generated by plot.py at 2019-01-21 06:39:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.00 Mbit/s
95th percentile per-packet one-way delay: 117.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 337.00 Mbit/s
95th percentile per-packet one-way delay: 117.060 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link

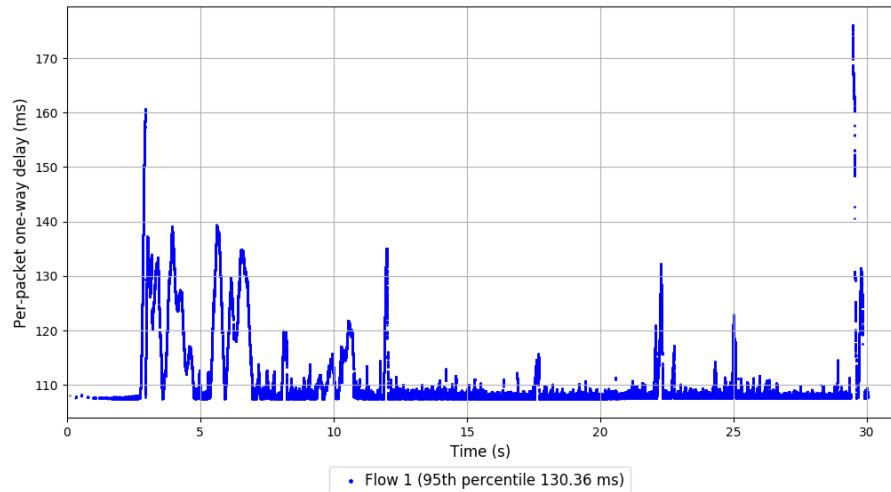
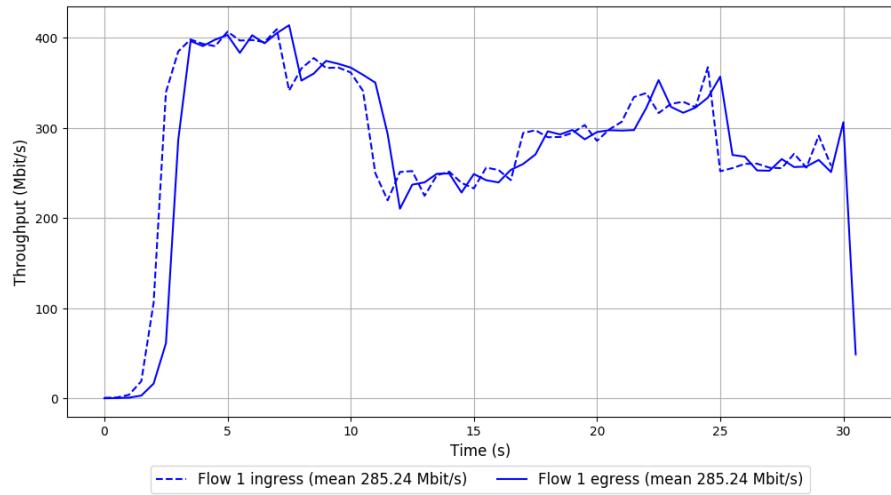


Run 2: Statistics of Copa

```
Start at: 2019-01-21 04:06:52
End at: 2019-01-21 04:07:22
Local clock offset: 23.935 ms
Remote clock offset: 24.724 ms

# Below is generated by plot.py at 2019-01-21 06:39:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.24 Mbit/s
95th percentile per-packet one-way delay: 130.362 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 285.24 Mbit/s
95th percentile per-packet one-way delay: 130.362 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link

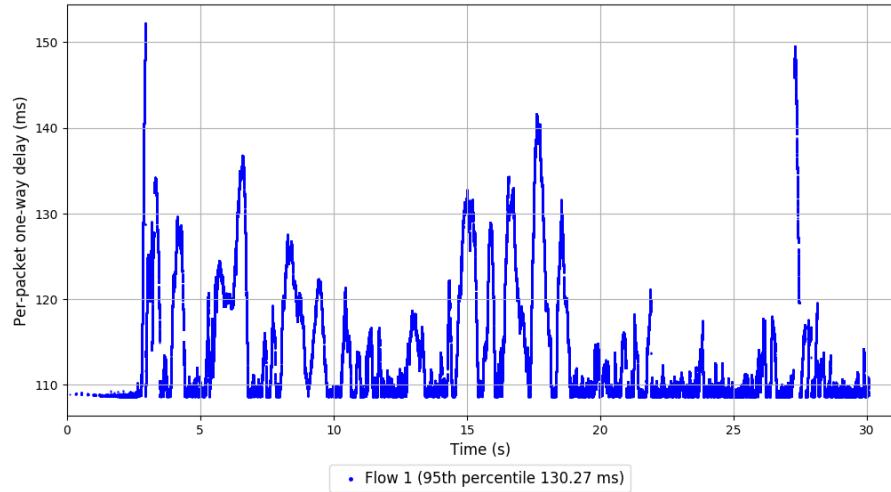
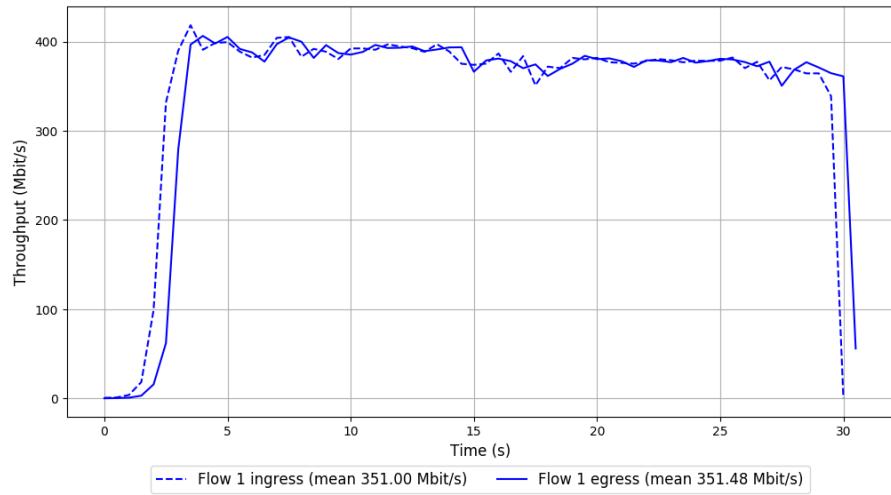


Run 3: Statistics of Copa

```
Start at: 2019-01-21 04:39:09
End at: 2019-01-21 04:39:39
Local clock offset: 33.86 ms
Remote clock offset: 35.602 ms

# Below is generated by plot.py at 2019-01-21 06:40:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 351.48 Mbit/s
95th percentile per-packet one-way delay: 130.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 351.48 Mbit/s
95th percentile per-packet one-way delay: 130.274 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link

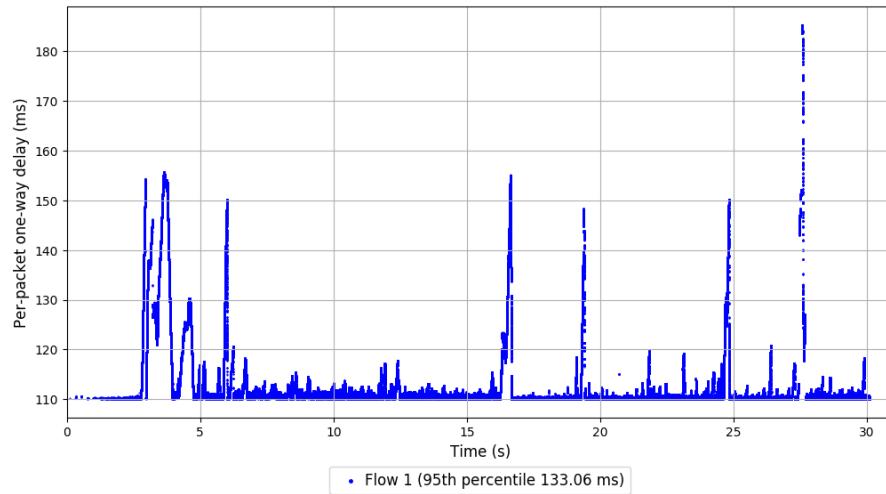
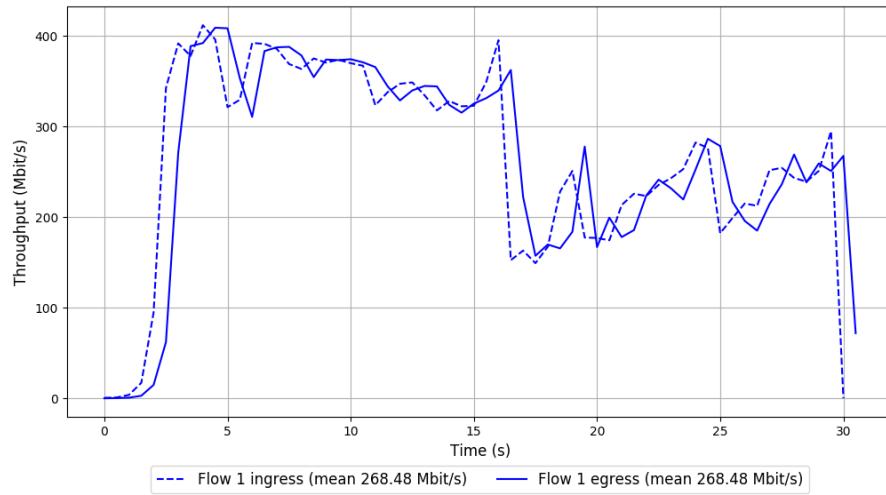


Run 4: Statistics of Copa

```
Start at: 2019-01-21 05:11:09
End at: 2019-01-21 05:11:39
Local clock offset: 15.387 ms
Remote clock offset: 17.287 ms

# Below is generated by plot.py at 2019-01-21 06:47:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 268.48 Mbit/s
95th percentile per-packet one-way delay: 133.064 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 268.48 Mbit/s
95th percentile per-packet one-way delay: 133.064 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

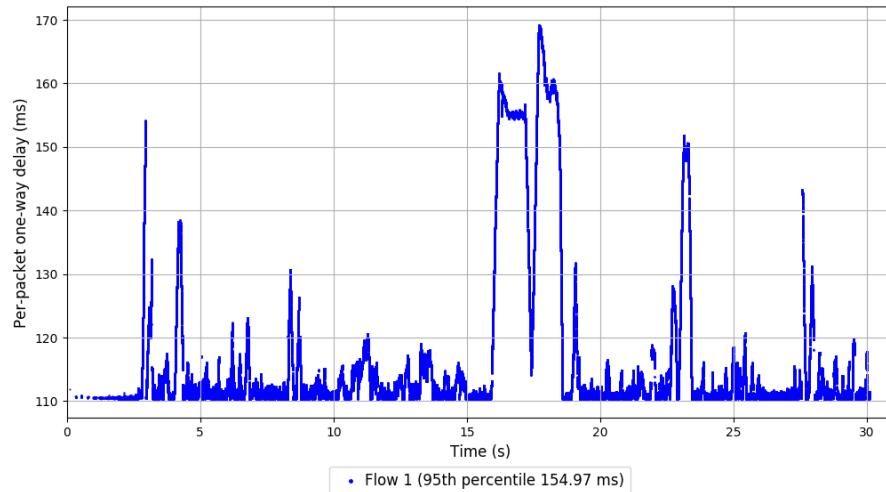
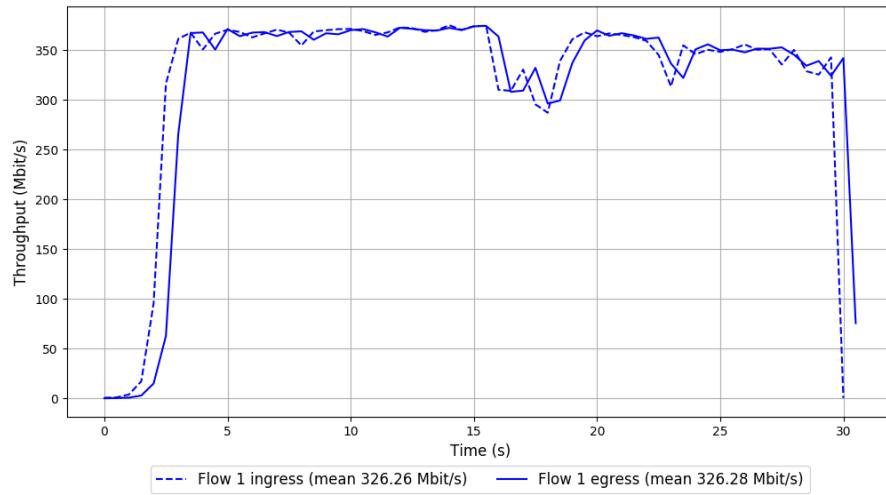


Run 5: Statistics of Copa

```
Start at: 2019-01-21 05:42:55
End at: 2019-01-21 05:43:25
Local clock offset: 6.1 ms
Remote clock offset: 7.938 ms

# Below is generated by plot.py at 2019-01-21 06:51:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.28 Mbit/s
95th percentile per-packet one-way delay: 154.967 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 326.28 Mbit/s
95th percentile per-packet one-way delay: 154.967 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

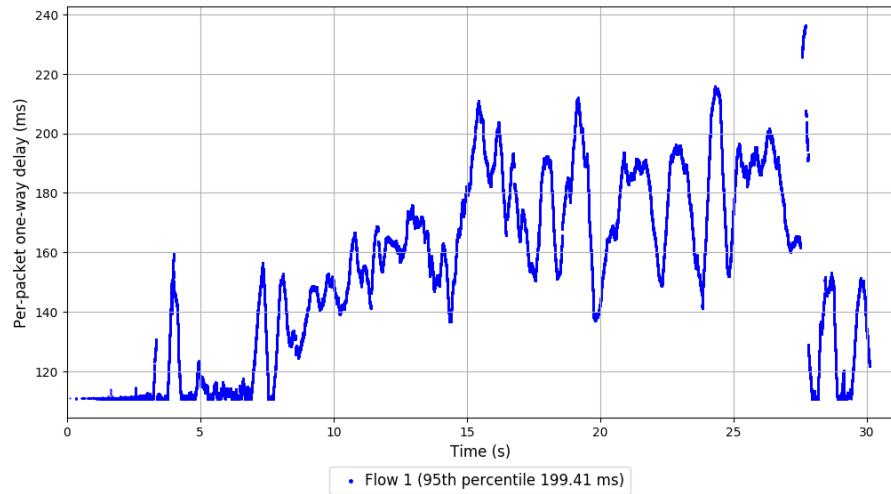
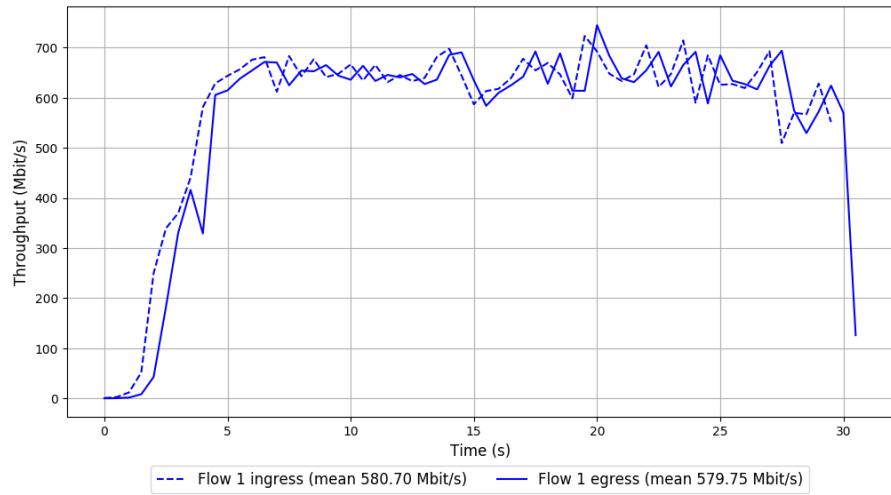


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-21 03:44:41
End at: 2019-01-21 03:45:11
Local clock offset: 6.663 ms
Remote clock offset: 8.661 ms

# Below is generated by plot.py at 2019-01-21 06:51:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.75 Mbit/s
95th percentile per-packet one-way delay: 199.413 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 579.75 Mbit/s
95th percentile per-packet one-way delay: 199.413 ms
Loss rate: 0.16%
```

Run 1: Report of TCP Cubic — Data Link

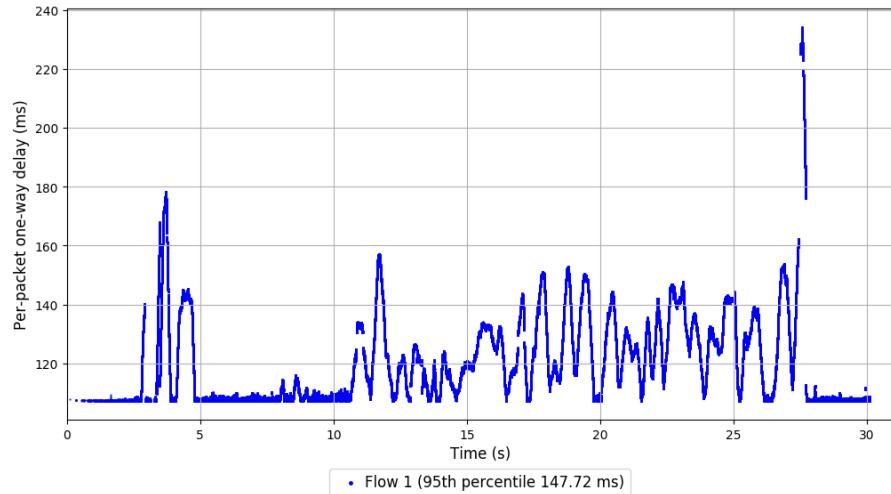
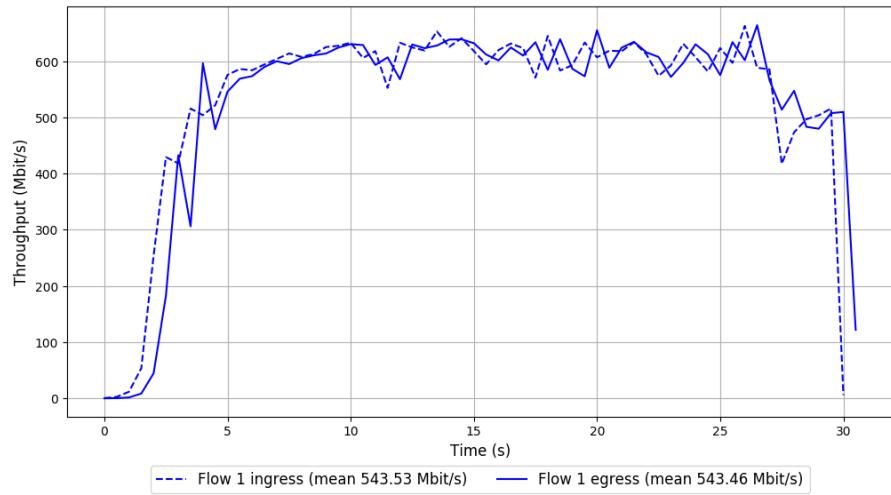


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-21 04:16:19
End at: 2019-01-21 04:16:49
Local clock offset: 18.723 ms
Remote clock offset: 18.767 ms

# Below is generated by plot.py at 2019-01-21 06:51:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 543.46 Mbit/s
95th percentile per-packet one-way delay: 147.723 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 543.46 Mbit/s
95th percentile per-packet one-way delay: 147.723 ms
Loss rate: 0.01%
```

Run 2: Report of TCP Cubic — Data Link

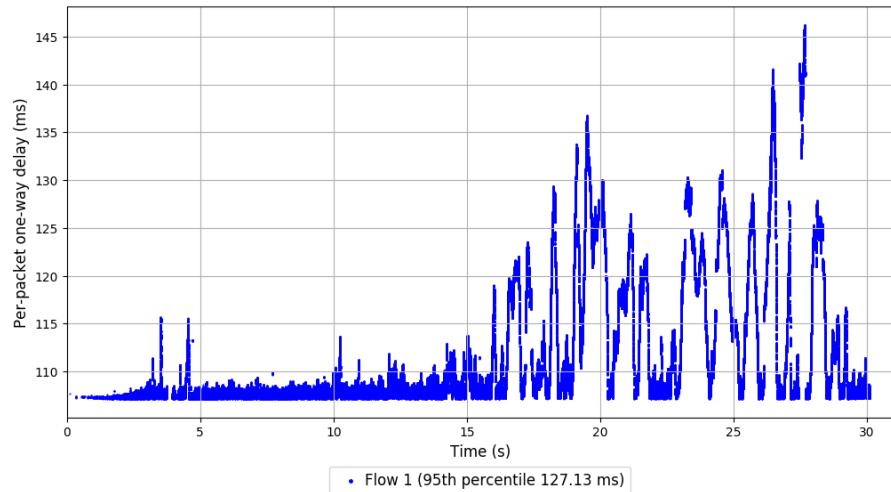
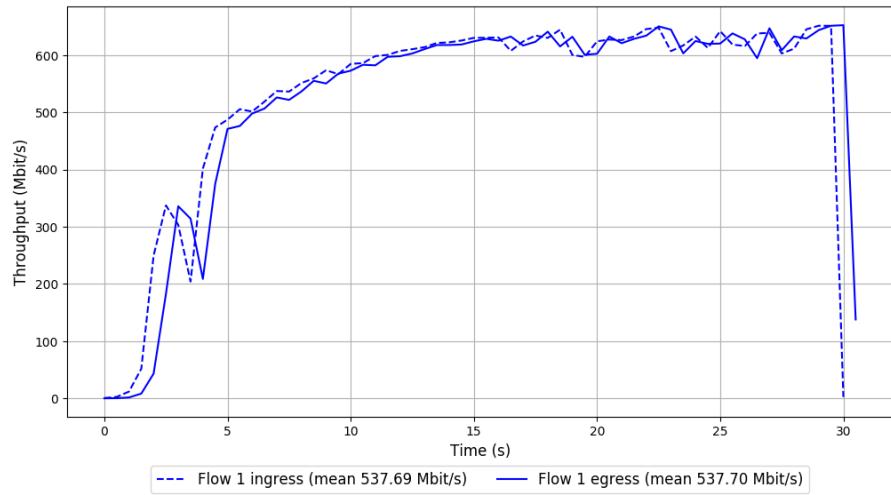


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-21 04:48:44
End at: 2019-01-21 04:49:14
Local clock offset: 20.803 ms
Remote clock offset: 20.006 ms

# Below is generated by plot.py at 2019-01-21 06:51:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 537.70 Mbit/s
95th percentile per-packet one-way delay: 127.134 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 537.70 Mbit/s
95th percentile per-packet one-way delay: 127.134 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Cubic — Data Link

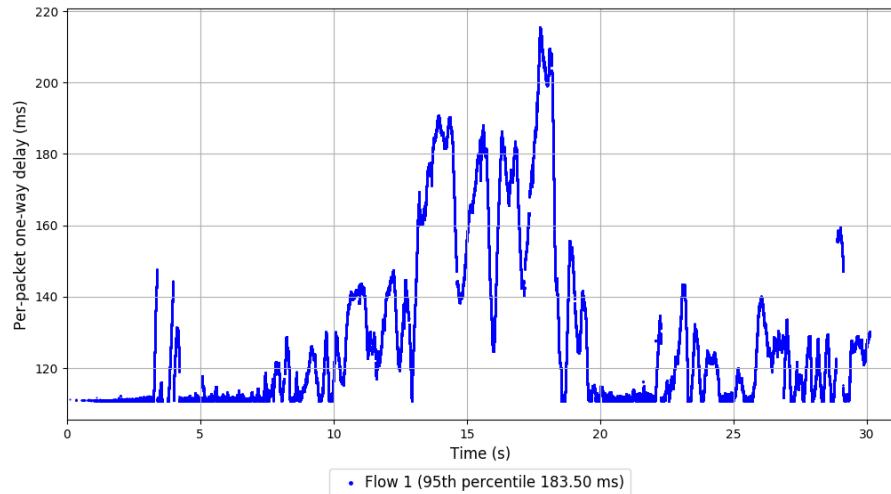
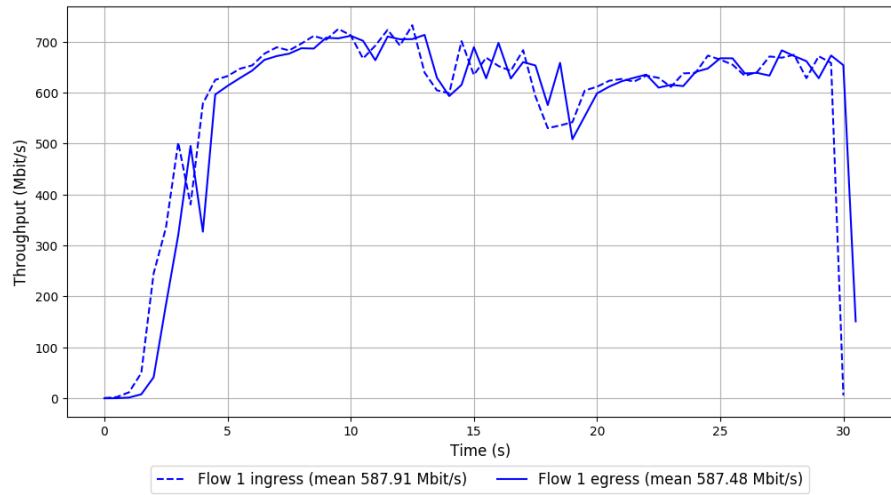


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-21 05:20:32
End at: 2019-01-21 05:21:02
Local clock offset: 10.094 ms
Remote clock offset: 12.276 ms

# Below is generated by plot.py at 2019-01-21 06:51:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 587.48 Mbit/s
95th percentile per-packet one-way delay: 183.498 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 587.48 Mbit/s
95th percentile per-packet one-way delay: 183.498 ms
Loss rate: 0.07%
```

Run 4: Report of TCP Cubic — Data Link

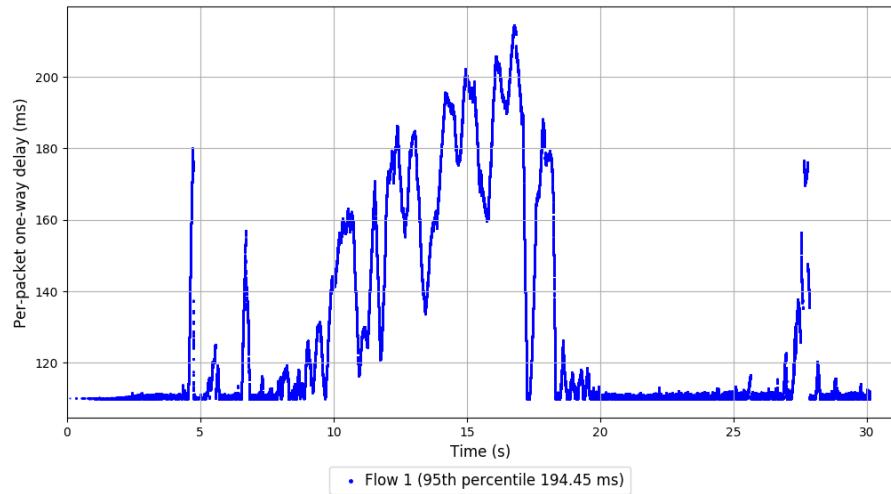
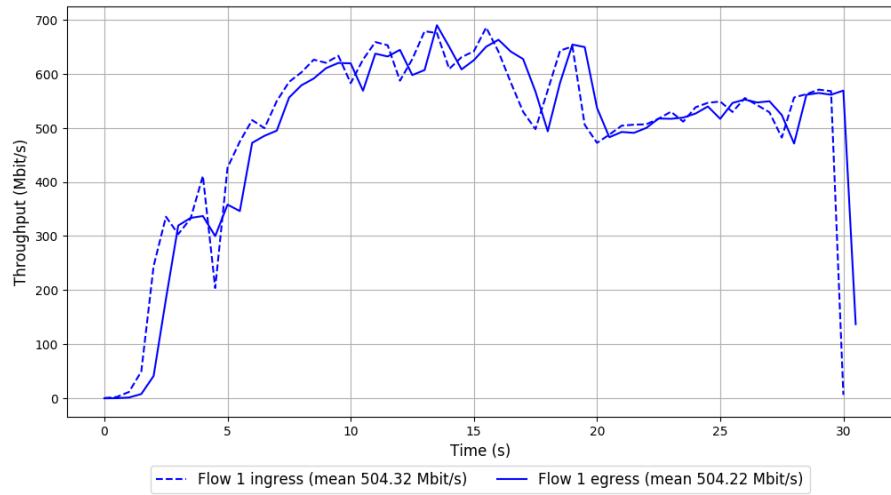


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-21 05:52:22
End at: 2019-01-21 05:52:52
Local clock offset: 6.163 ms
Remote clock offset: 7.028 ms

# Below is generated by plot.py at 2019-01-21 06:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 504.22 Mbit/s
95th percentile per-packet one-way delay: 194.447 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 504.22 Mbit/s
95th percentile per-packet one-way delay: 194.447 ms
Loss rate: 0.02%
```

Run 5: Report of TCP Cubic — Data Link

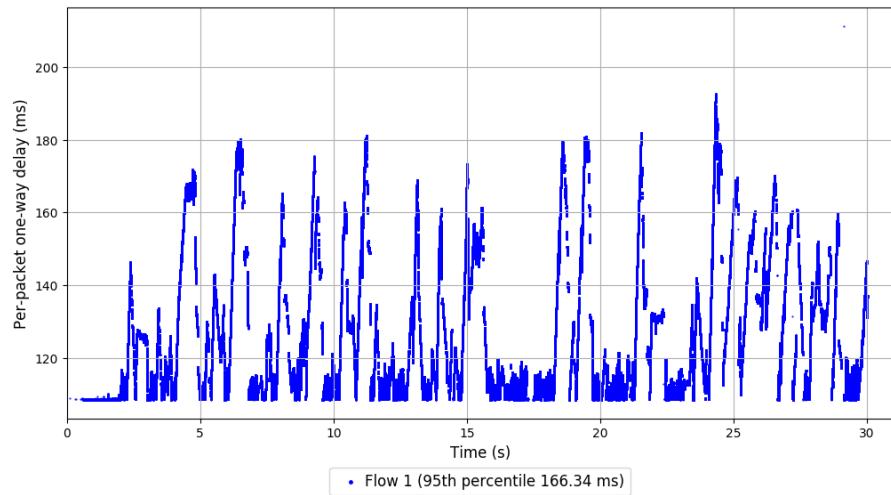
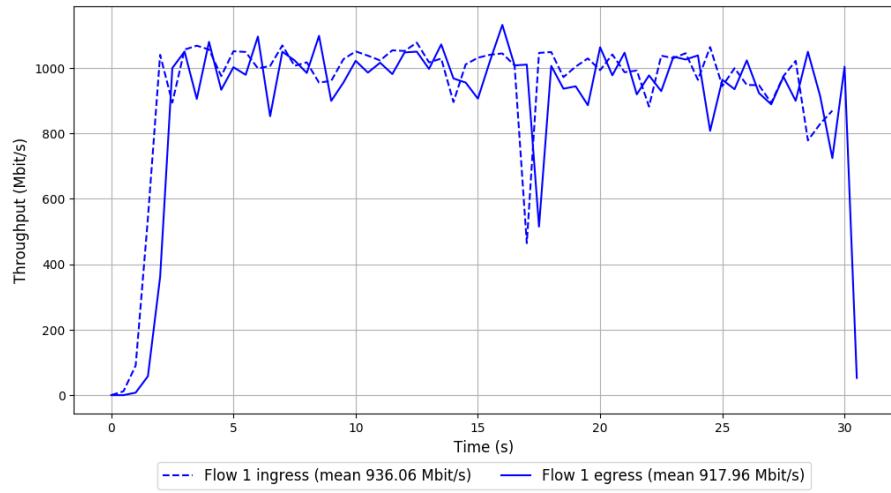


```
Run 1: Statistics of FillP
```

```
Start at: 2019-01-21 03:38:19
End at: 2019-01-21 03:38:49
Local clock offset: 6.106 ms
Remote clock offset: 5.594 ms

# Below is generated by plot.py at 2019-01-21 07:04:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 917.96 Mbit/s
95th percentile per-packet one-way delay: 166.338 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 917.96 Mbit/s
95th percentile per-packet one-way delay: 166.338 ms
Loss rate: 1.93%
```

Run 1: Report of FillP — Data Link

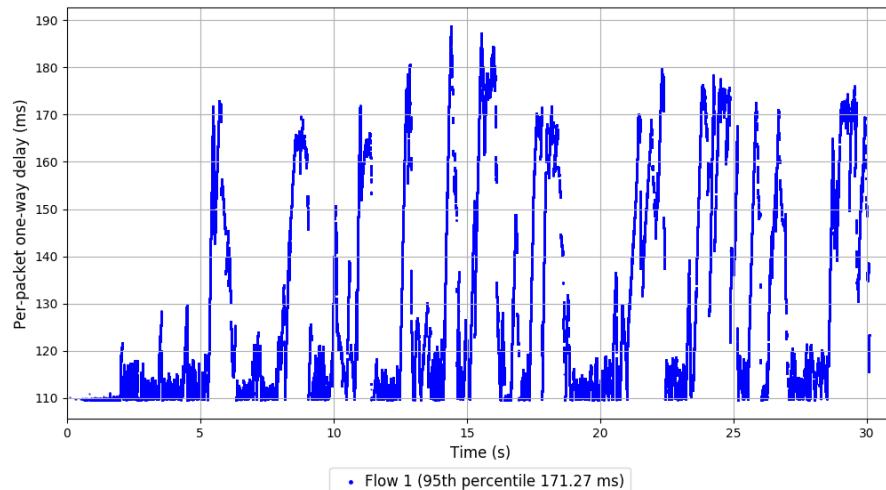
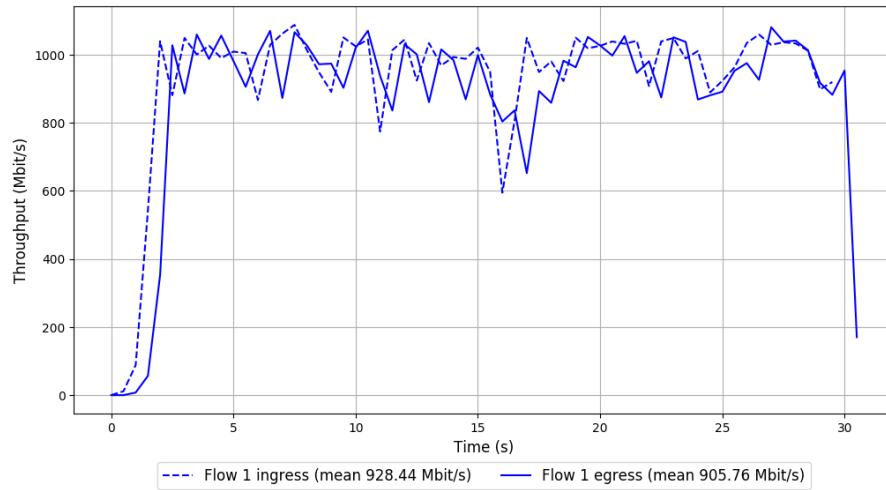


Run 2: Statistics of FillP

```
Start at: 2019-01-21 04:09:57
End at: 2019-01-21 04:10:27
Local clock offset: 20.264 ms
Remote clock offset: 21.86 ms

# Below is generated by plot.py at 2019-01-21 07:14:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 905.76 Mbit/s
95th percentile per-packet one-way delay: 171.271 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 905.76 Mbit/s
95th percentile per-packet one-way delay: 171.271 ms
Loss rate: 2.43%
```

Run 2: Report of FillP — Data Link

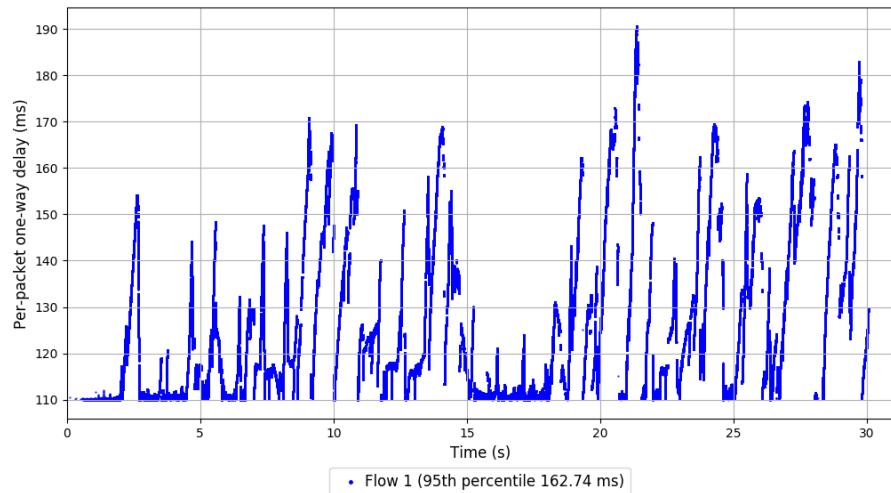
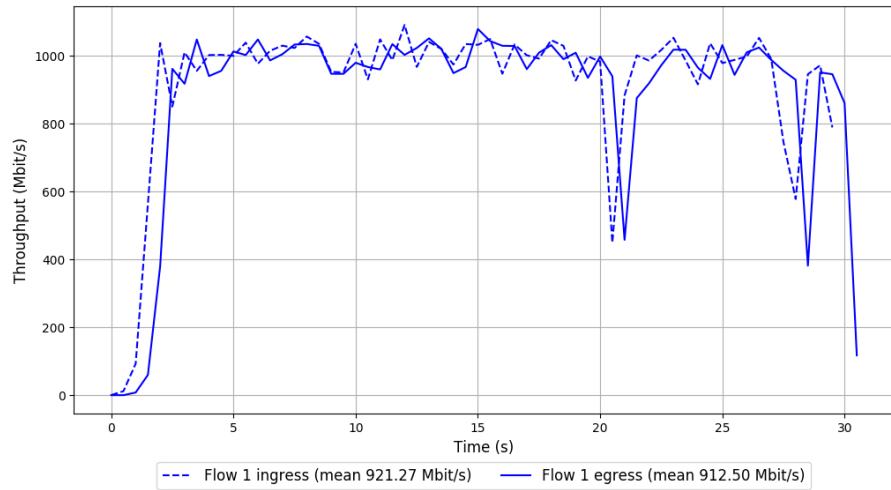


Run 3: Statistics of FillP

```
Start at: 2019-01-21 04:42:19
End at: 2019-01-21 04:42:49
Local clock offset: 32.982 ms
Remote clock offset: 35.53 ms

# Below is generated by plot.py at 2019-01-21 07:16:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 912.50 Mbit/s
95th percentile per-packet one-way delay: 162.744 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 912.50 Mbit/s
95th percentile per-packet one-way delay: 162.744 ms
Loss rate: 0.95%
```

Run 3: Report of FillP — Data Link

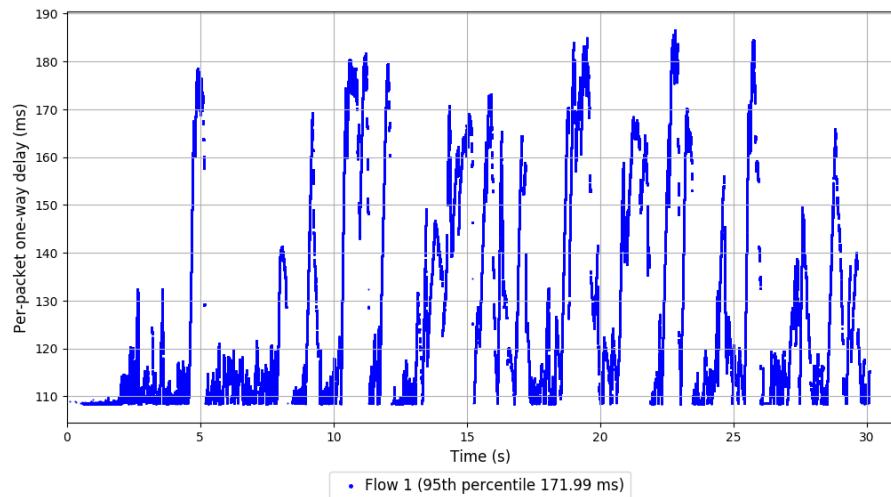
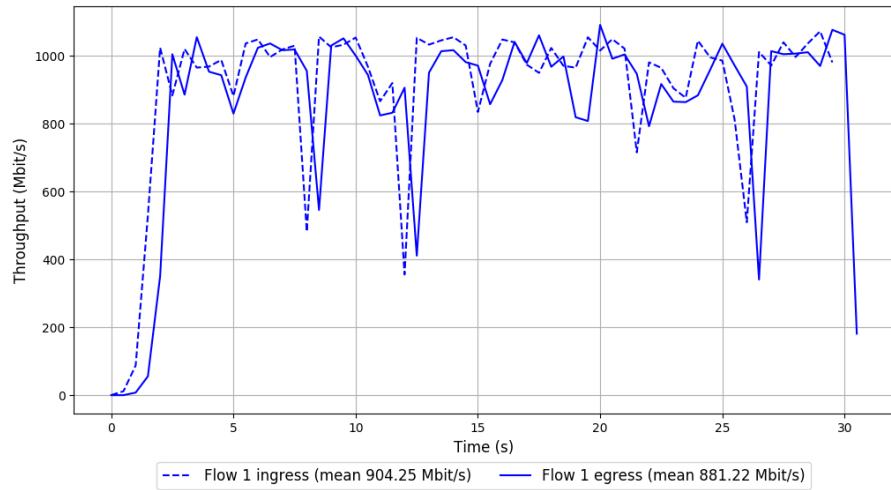


```
Run 4: Statistics of FillP
```

```
Start at: 2019-01-21 05:14:08
End at: 2019-01-21 05:14:38
Local clock offset: 17.22 ms
Remote clock offset: 18.425 ms

# Below is generated by plot.py at 2019-01-21 07:16:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 881.22 Mbit/s
95th percentile per-packet one-way delay: 171.990 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 881.22 Mbit/s
95th percentile per-packet one-way delay: 171.990 ms
Loss rate: 2.54%
```

Run 4: Report of FillP — Data Link

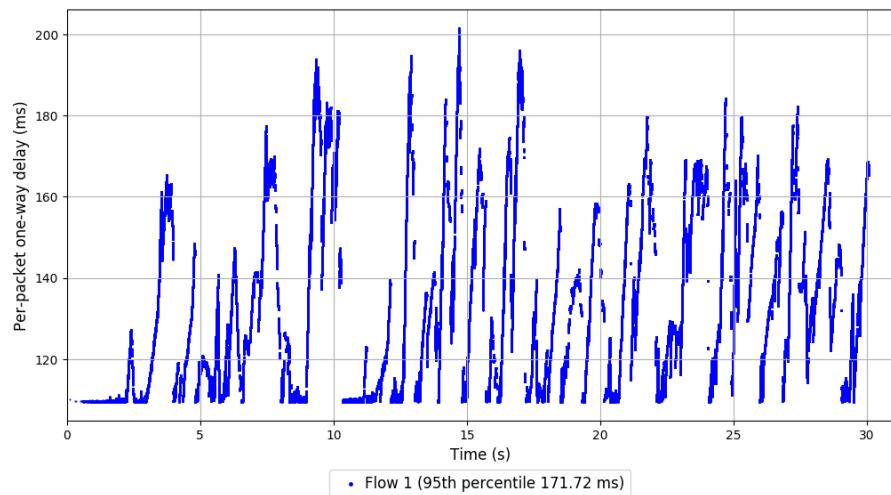
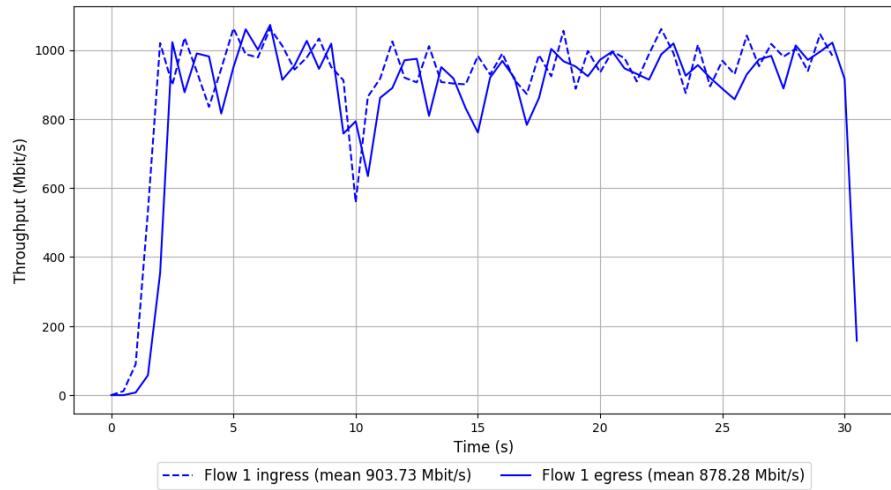


Run 5: Statistics of FillP

```
Start at: 2019-01-21 05:46:04
End at: 2019-01-21 05:46:34
Local clock offset: 7.771 ms
Remote clock offset: 8.656 ms

# Below is generated by plot.py at 2019-01-21 07:16:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 878.28 Mbit/s
95th percentile per-packet one-way delay: 171.723 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 878.28 Mbit/s
95th percentile per-packet one-way delay: 171.723 ms
Loss rate: 2.82%
```

Run 5: Report of FillP — Data Link

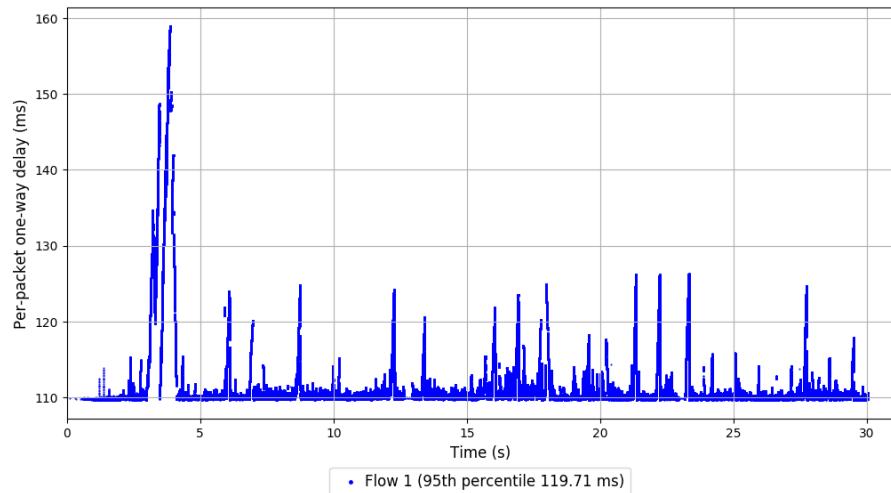
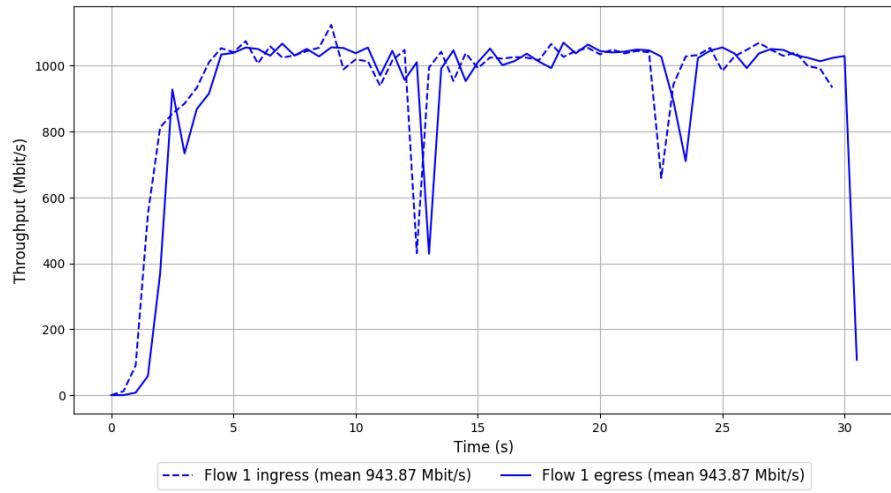


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-21 04:03:44
End at: 2019-01-21 04:04:14
Local clock offset: 18.228 ms
Remote clock offset: 20.036 ms

# Below is generated by plot.py at 2019-01-21 07:17:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 943.87 Mbit/s
95th percentile per-packet one-way delay: 119.711 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 943.87 Mbit/s
95th percentile per-packet one-way delay: 119.711 ms
Loss rate: 0.00%
```

Run 1: Report of FillP-Sheep — Data Link

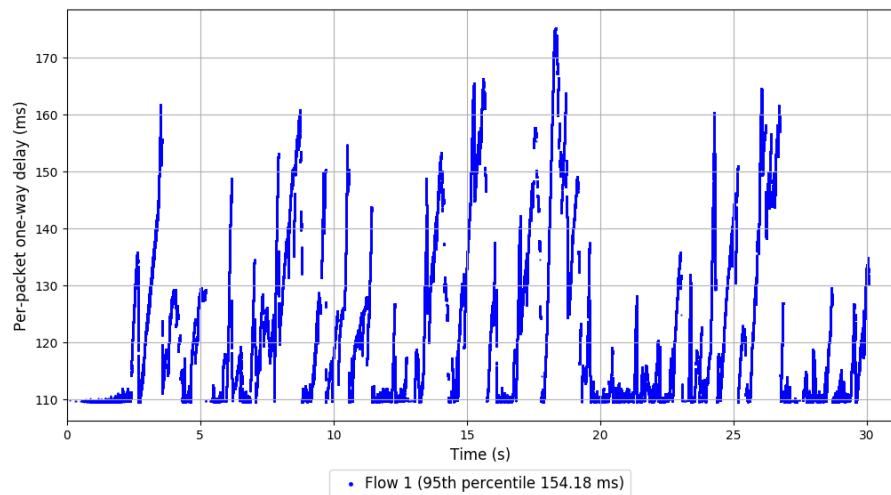
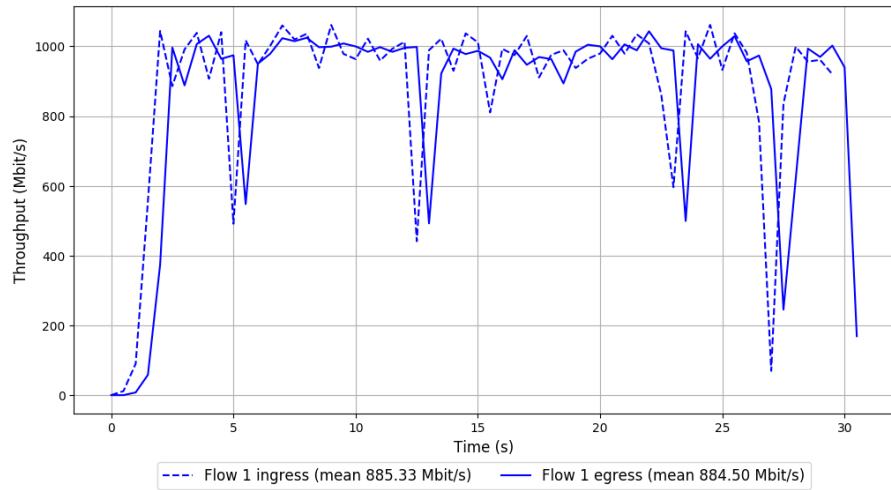


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-21 04:36:08
End at: 2019-01-21 04:36:38
Local clock offset: 30.065 ms
Remote clock offset: 32.448 ms

# Below is generated by plot.py at 2019-01-21 07:17:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 884.50 Mbit/s
95th percentile per-packet one-way delay: 154.184 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 884.50 Mbit/s
95th percentile per-packet one-way delay: 154.184 ms
Loss rate: 0.16%
```

Run 2: Report of FillP-Sheep — Data Link

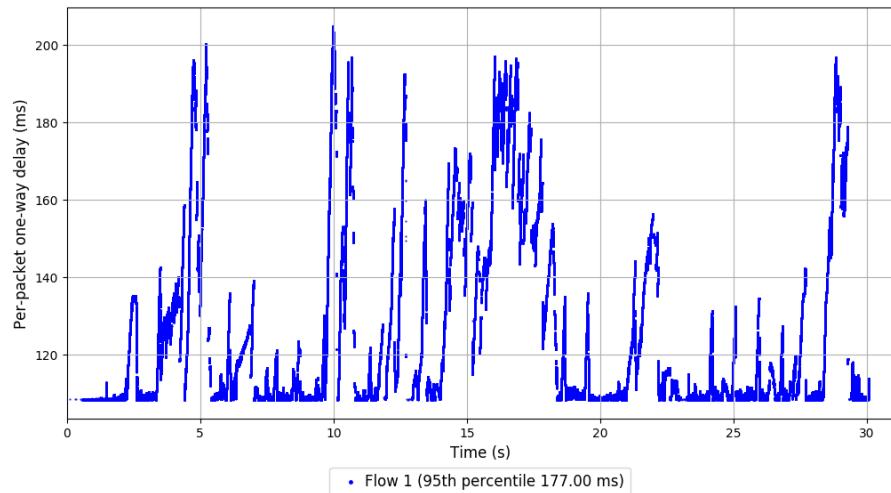
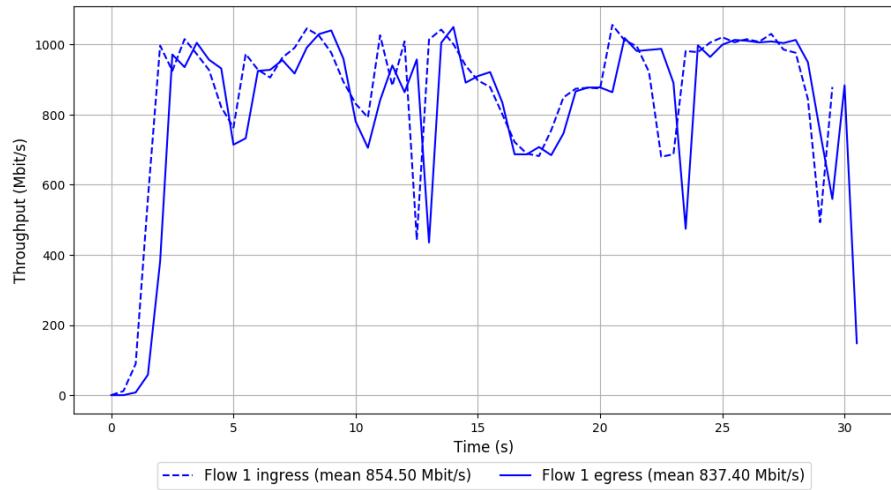


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-21 05:08:02
End at: 2019-01-21 05:08:32
Local clock offset: 14.873 ms
Remote clock offset: 16.087 ms

# Below is generated by plot.py at 2019-01-21 07:17:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 837.40 Mbit/s
95th percentile per-packet one-way delay: 176.998 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 837.40 Mbit/s
95th percentile per-packet one-way delay: 176.998 ms
Loss rate: 1.99%
```

Run 3: Report of FillP-Sheep — Data Link

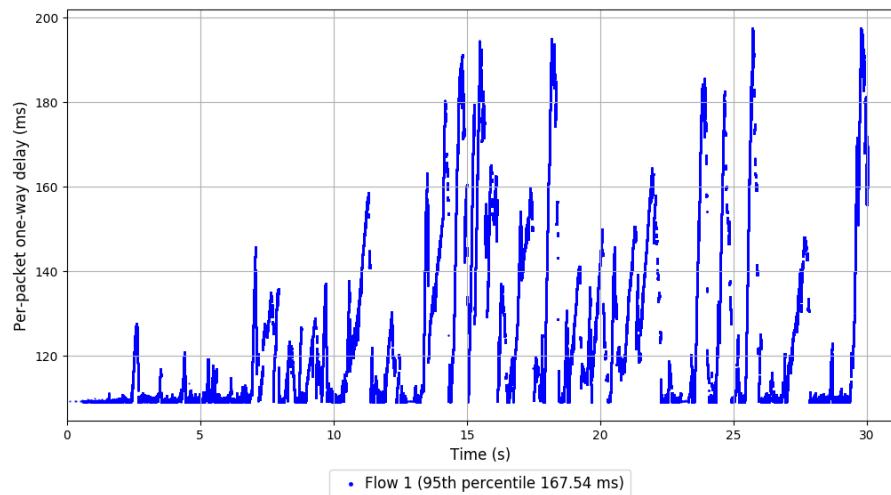
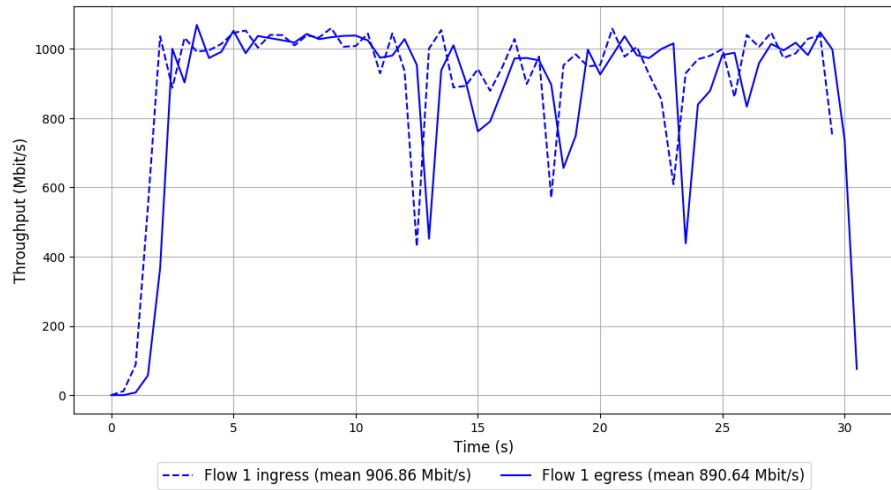


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-21 05:39:56
End at: 2019-01-21 05:40:26
Local clock offset: 5.99 ms
Remote clock offset: 7.507 ms

# Below is generated by plot.py at 2019-01-21 07:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 890.64 Mbit/s
95th percentile per-packet one-way delay: 167.538 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 890.64 Mbit/s
95th percentile per-packet one-way delay: 167.538 ms
Loss rate: 1.79%
```

Run 4: Report of FillP-Sheep — Data Link

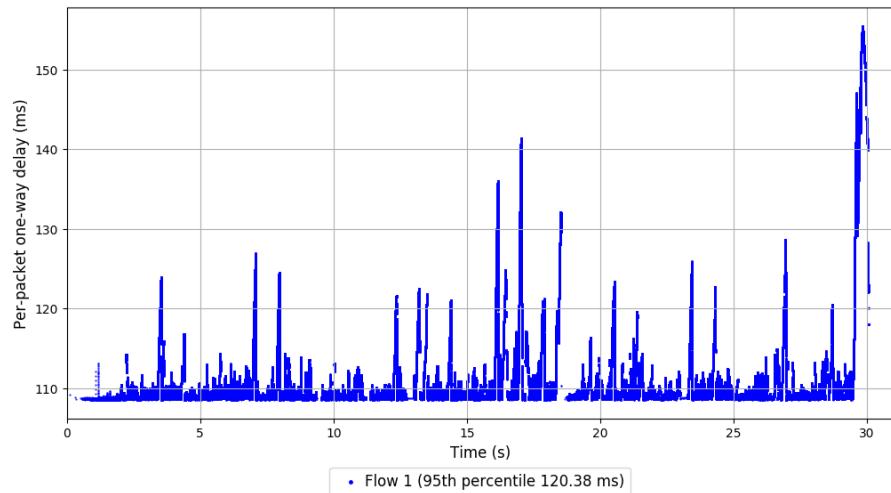
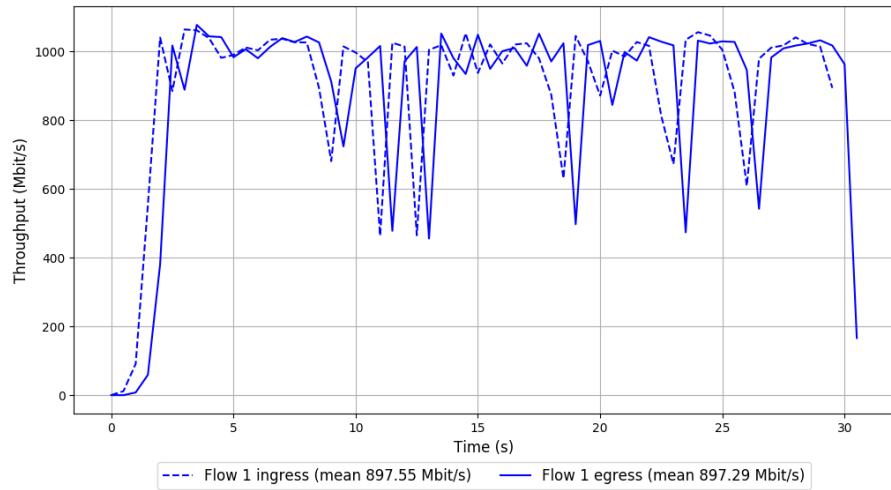


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-21 06:11:41
End at: 2019-01-21 06:12:11
Local clock offset: 3.746 ms
Remote clock offset: 2.202 ms

# Below is generated by plot.py at 2019-01-21 07:39:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 897.29 Mbit/s
95th percentile per-packet one-way delay: 120.384 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 897.29 Mbit/s
95th percentile per-packet one-way delay: 120.384 ms
Loss rate: 0.00%
```

Run 5: Report of FillP-Sheep — Data Link

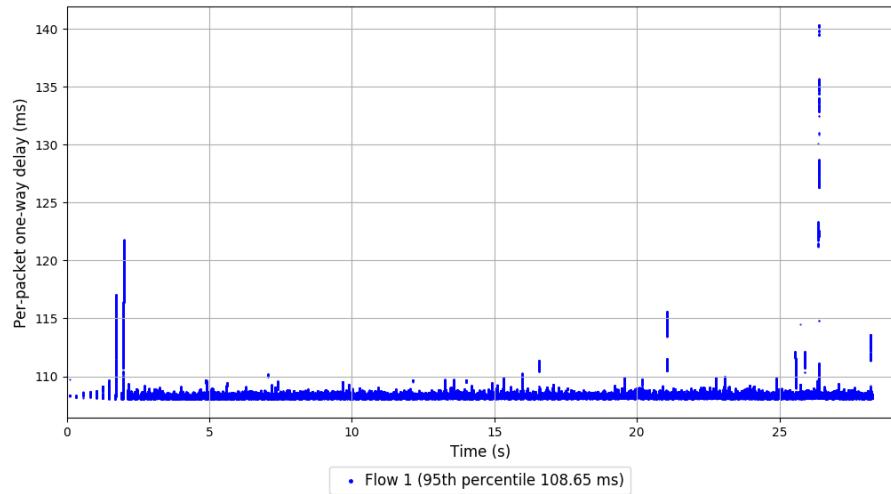
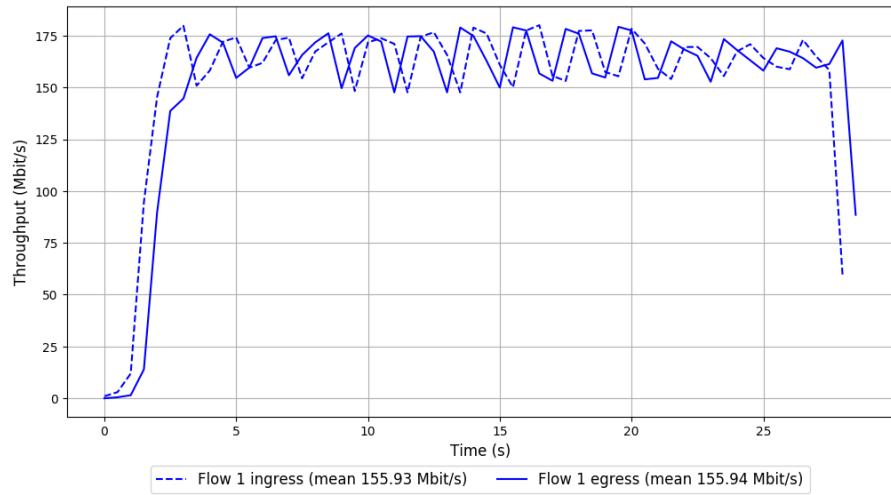


Run 1: Statistics of Indigo

```
Start at: 2019-01-21 03:51:53
End at: 2019-01-21 03:52:23
Local clock offset: 14.888 ms
Remote clock offset: 14.437 ms

# Below is generated by plot.py at 2019-01-21 07:39:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.94 Mbit/s
95th percentile per-packet one-way delay: 108.646 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 155.94 Mbit/s
95th percentile per-packet one-way delay: 108.646 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

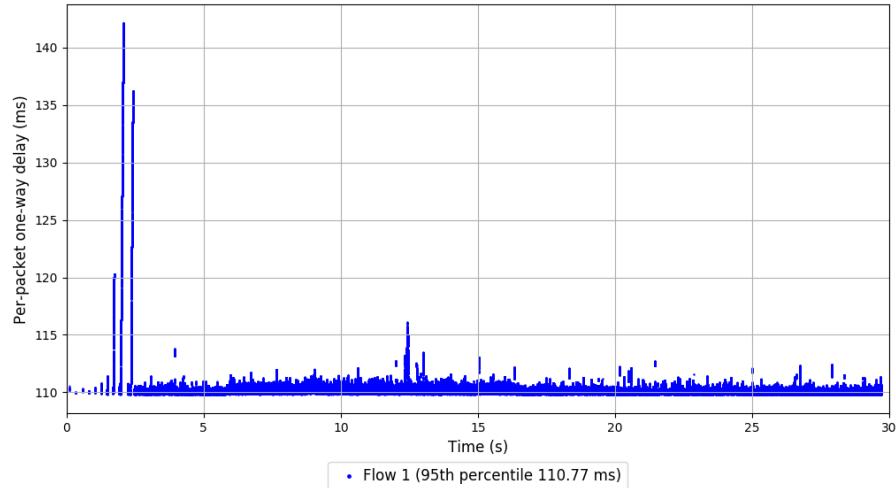
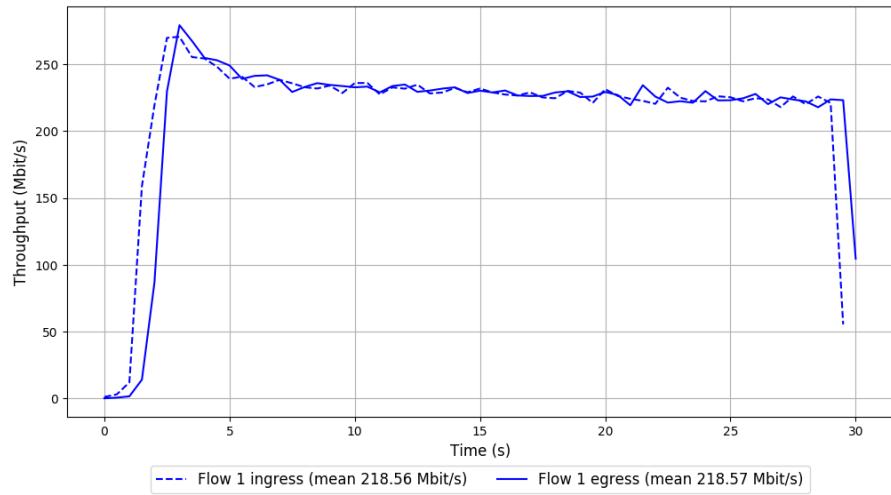


Run 2: Statistics of Indigo

```
Start at: 2019-01-21 04:24:08
End at: 2019-01-21 04:24:38
Local clock offset: 20.055 ms
Remote clock offset: 21.973 ms

# Below is generated by plot.py at 2019-01-21 07:39:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.57 Mbit/s
95th percentile per-packet one-way delay: 110.767 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 218.57 Mbit/s
95th percentile per-packet one-way delay: 110.767 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

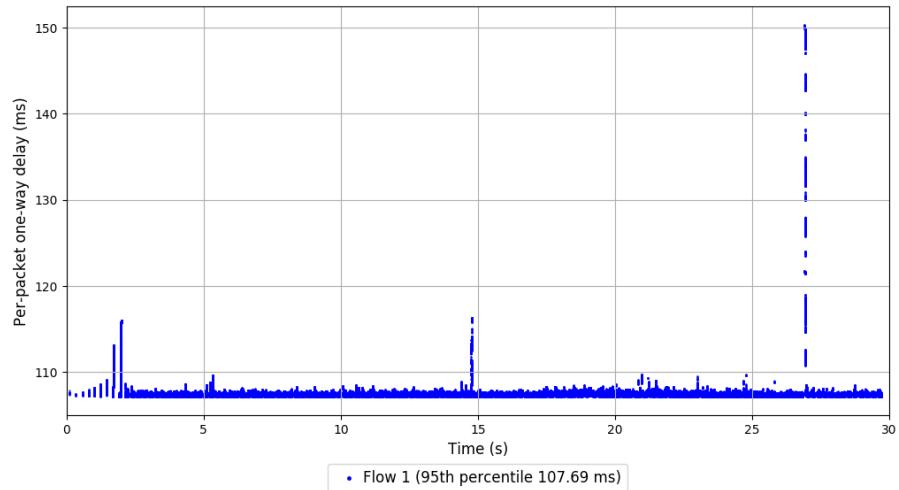
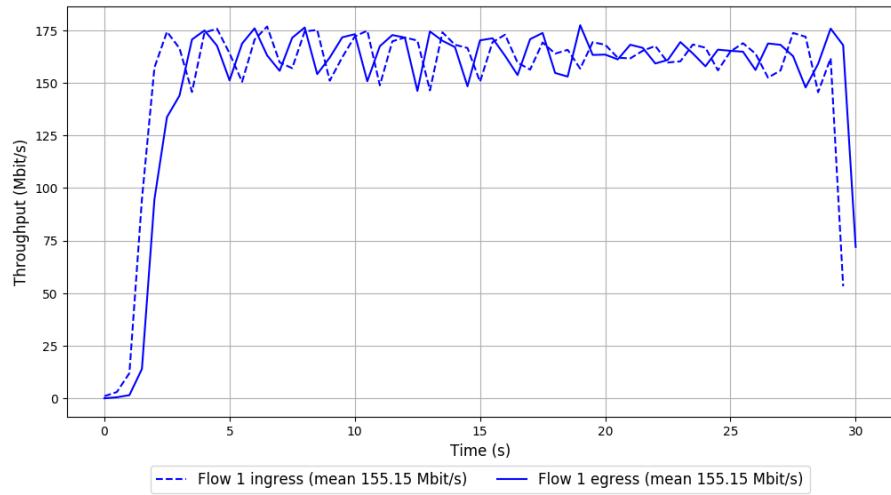


Run 3: Statistics of Indigo

```
Start at: 2019-01-21 04:56:08
End at: 2019-01-21 04:56:38
Local clock offset: 14.939 ms
Remote clock offset: 14.769 ms

# Below is generated by plot.py at 2019-01-21 07:39:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.15 Mbit/s
95th percentile per-packet one-way delay: 107.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 155.15 Mbit/s
95th percentile per-packet one-way delay: 107.689 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

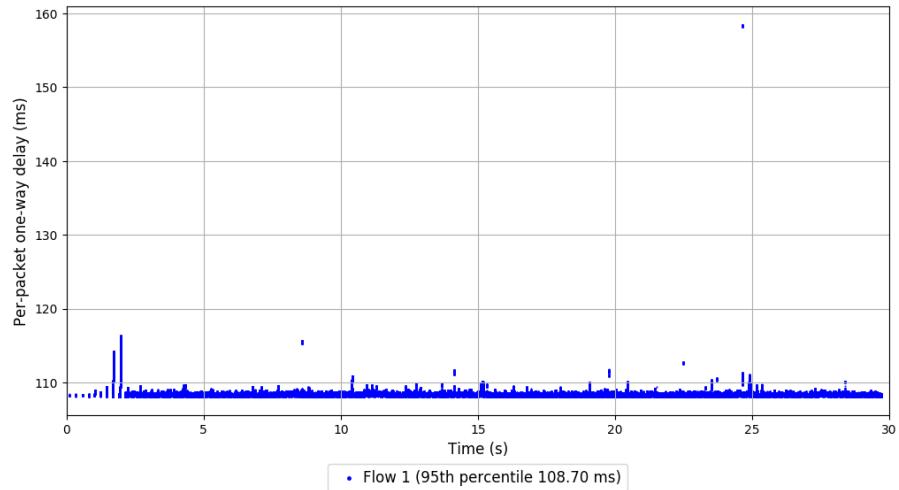
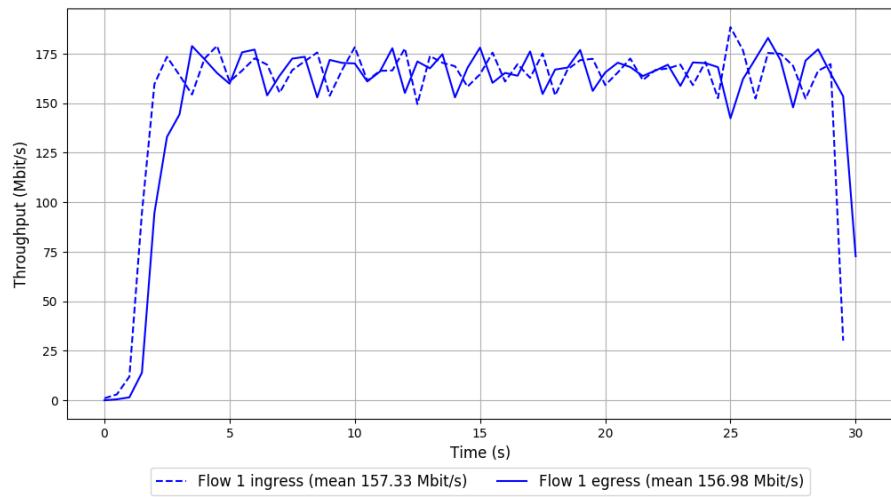


Run 4: Statistics of Indigo

```
Start at: 2019-01-21 05:28:01
End at: 2019-01-21 05:28:31
Local clock offset: 7.253 ms
Remote clock offset: 7.74 ms

# Below is generated by plot.py at 2019-01-21 07:39:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.98 Mbit/s
95th percentile per-packet one-way delay: 108.696 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 156.98 Mbit/s
95th percentile per-packet one-way delay: 108.696 ms
Loss rate: 0.22%
```

Run 4: Report of Indigo — Data Link

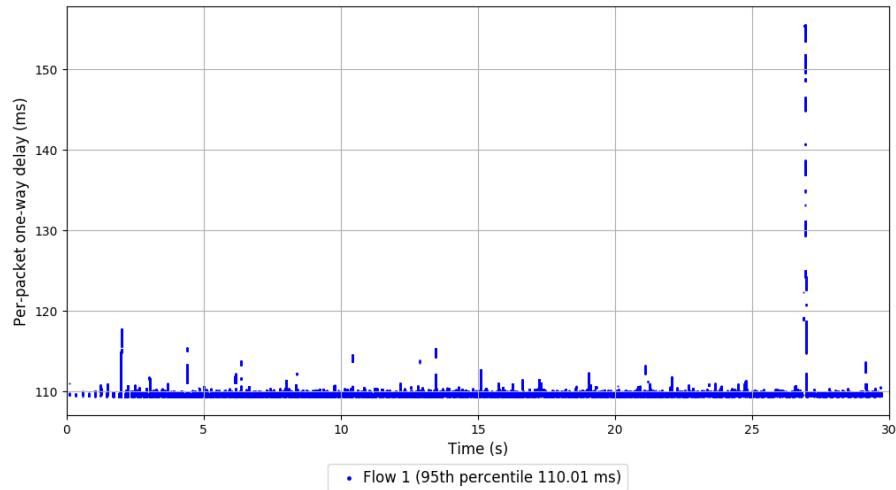
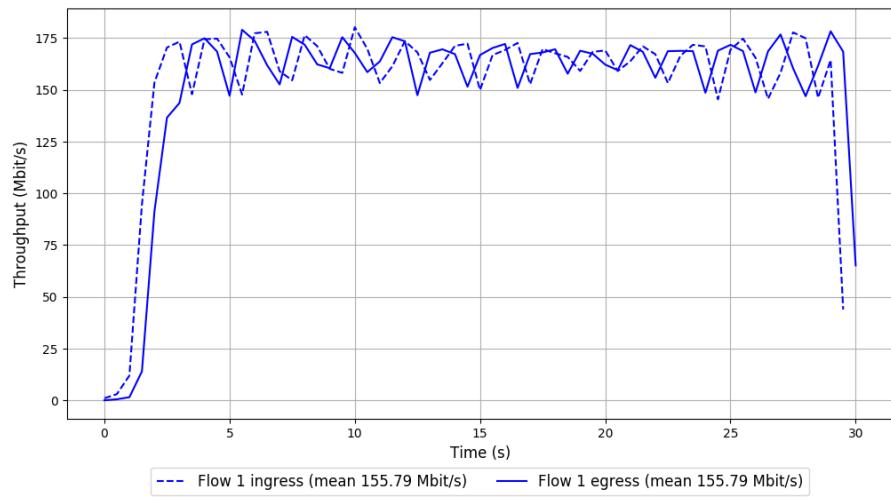


Run 5: Statistics of Indigo

```
Start at: 2019-01-21 05:59:47
End at: 2019-01-21 06:00:17
Local clock offset: 2.577 ms
Remote clock offset: 3.456 ms

# Below is generated by plot.py at 2019-01-21 07:39:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.79 Mbit/s
95th percentile per-packet one-way delay: 110.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 155.79 Mbit/s
95th percentile per-packet one-way delay: 110.006 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

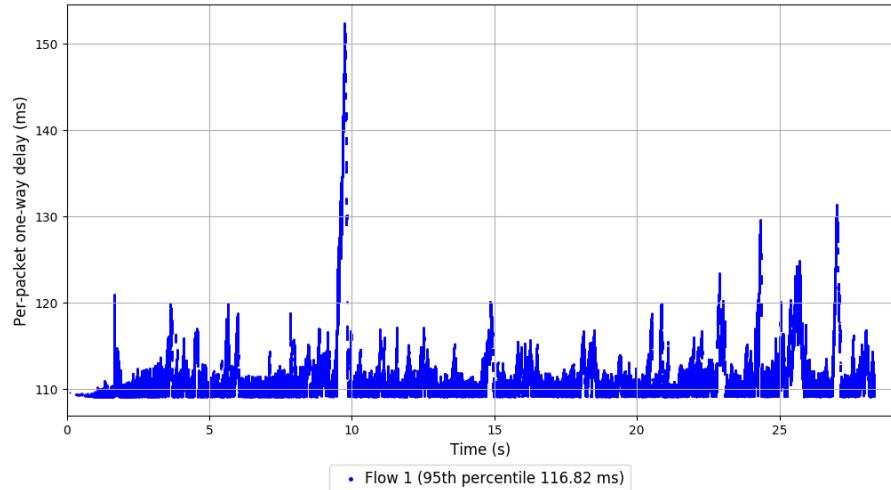
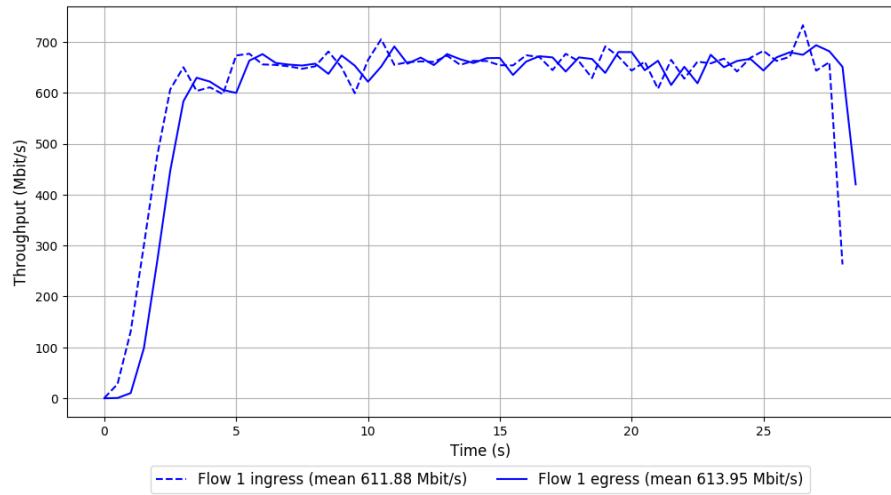


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 03:50:12
End at: 2019-01-21 03:50:42
Local clock offset: 15.762 ms
Remote clock offset: 16.805 ms

# Below is generated by plot.py at 2019-01-21 07:39:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 613.95 Mbit/s
95th percentile per-packet one-way delay: 116.824 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 613.95 Mbit/s
95th percentile per-packet one-way delay: 116.824 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link

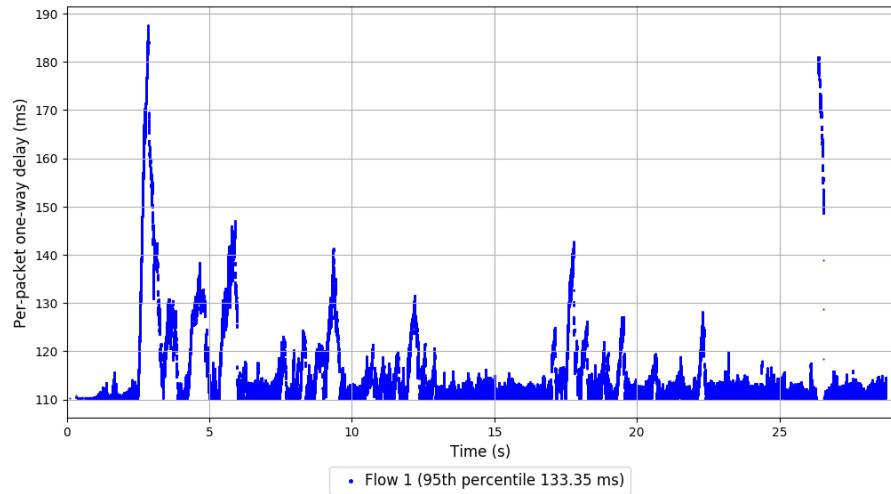
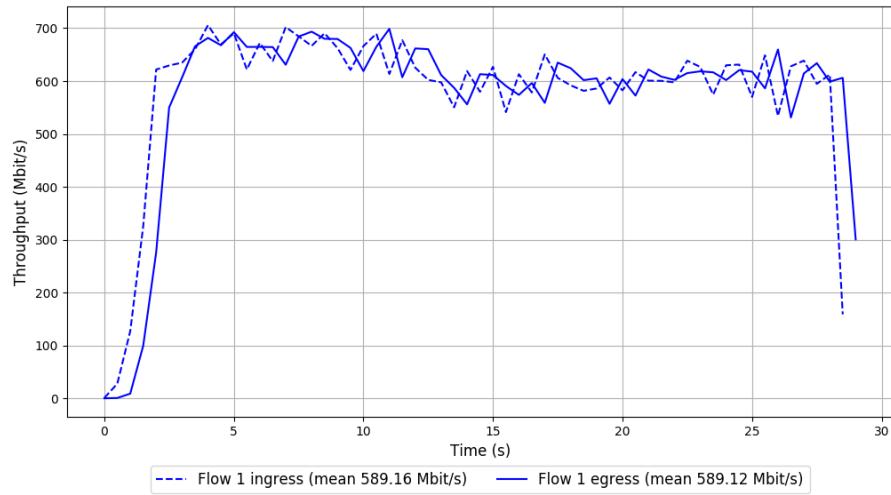


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 04:22:27
End at: 2019-01-21 04:22:57
Local clock offset: 18.593 ms
Remote clock offset: 20.915 ms

# Below is generated by plot.py at 2019-01-21 07:39:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 589.12 Mbit/s
95th percentile per-packet one-way delay: 133.350 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 589.12 Mbit/s
95th percentile per-packet one-way delay: 133.350 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC3 — Data Link

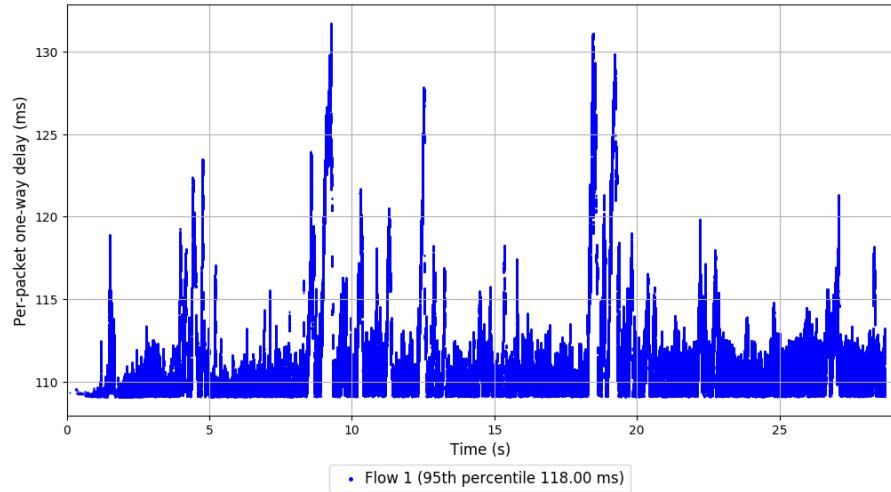
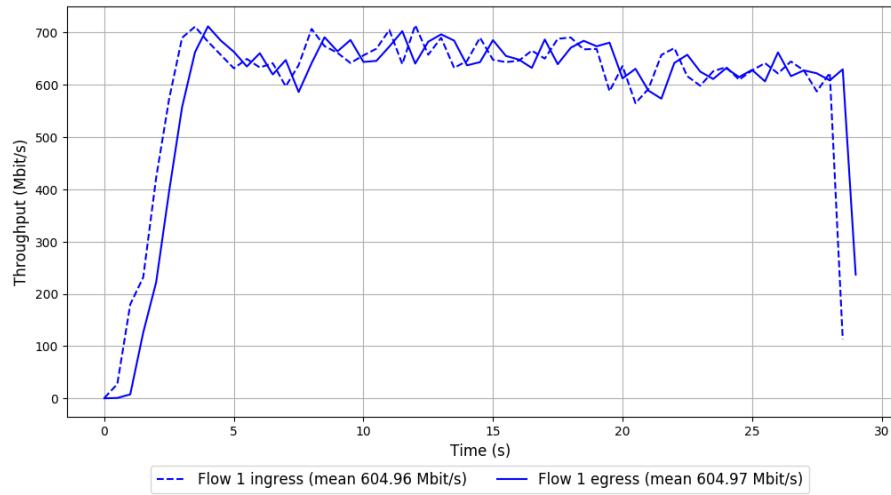


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 04:54:27
End at: 2019-01-21 04:54:57
Local clock offset: 15.524 ms
Remote clock offset: 15.308 ms

# Below is generated by plot.py at 2019-01-21 07:39:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 604.97 Mbit/s
95th percentile per-packet one-way delay: 117.996 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 604.97 Mbit/s
95th percentile per-packet one-way delay: 117.996 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC3 — Data Link

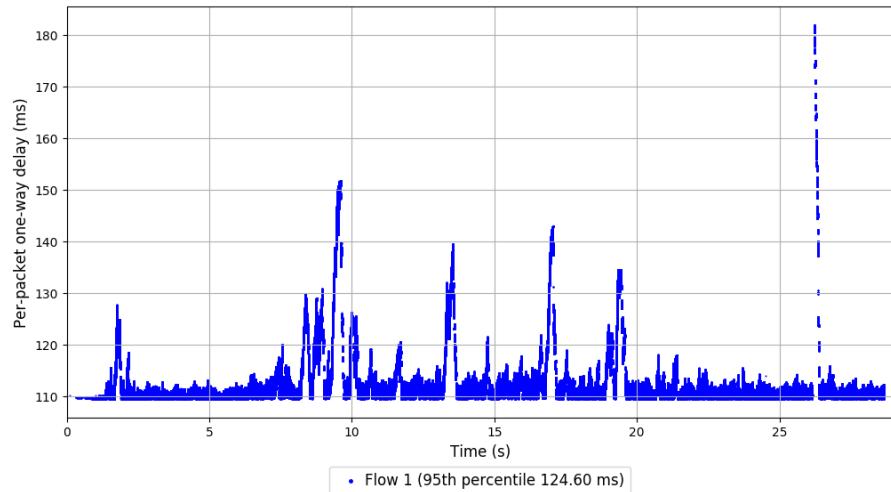
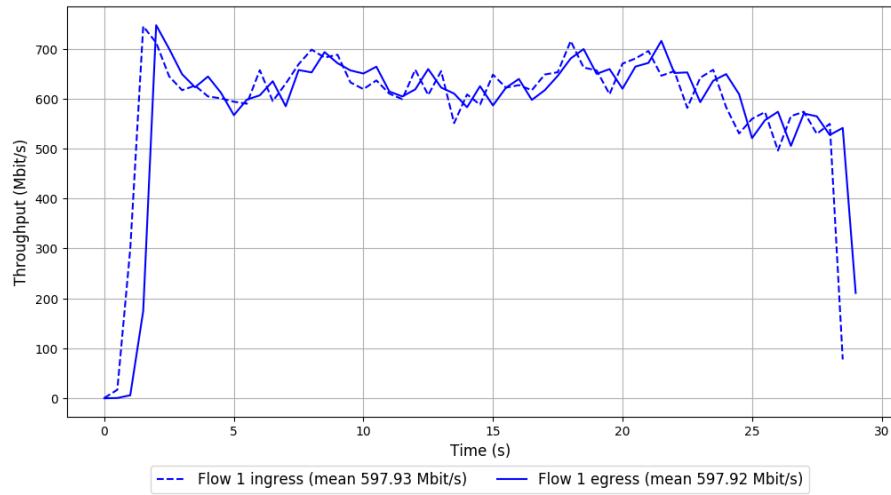


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 05:26:19
End at: 2019-01-21 05:26:49
Local clock offset: 7.091 ms
Remote clock offset: 8.293 ms

# Below is generated by plot.py at 2019-01-21 07:39:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 597.92 Mbit/s
95th percentile per-packet one-way delay: 124.604 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 597.92 Mbit/s
95th percentile per-packet one-way delay: 124.604 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC3 — Data Link

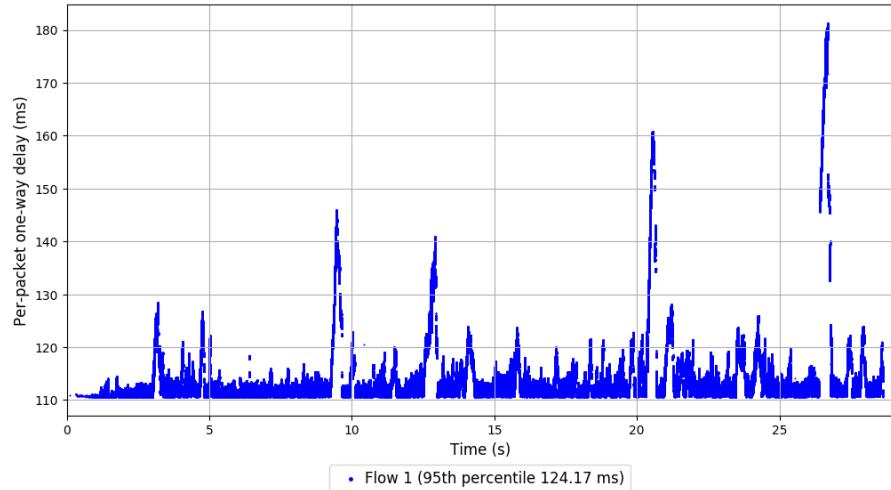
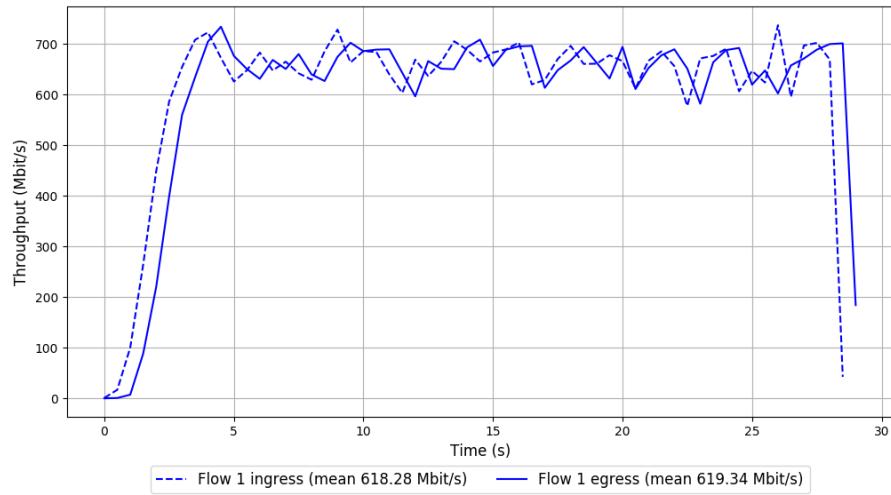


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 05:58:05
End at: 2019-01-21 05:58:35
Local clock offset: 2.921 ms
Remote clock offset: 3.986 ms

# Below is generated by plot.py at 2019-01-21 07:39:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 619.34 Mbit/s
95th percentile per-packet one-way delay: 124.167 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 619.34 Mbit/s
95th percentile per-packet one-way delay: 124.167 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

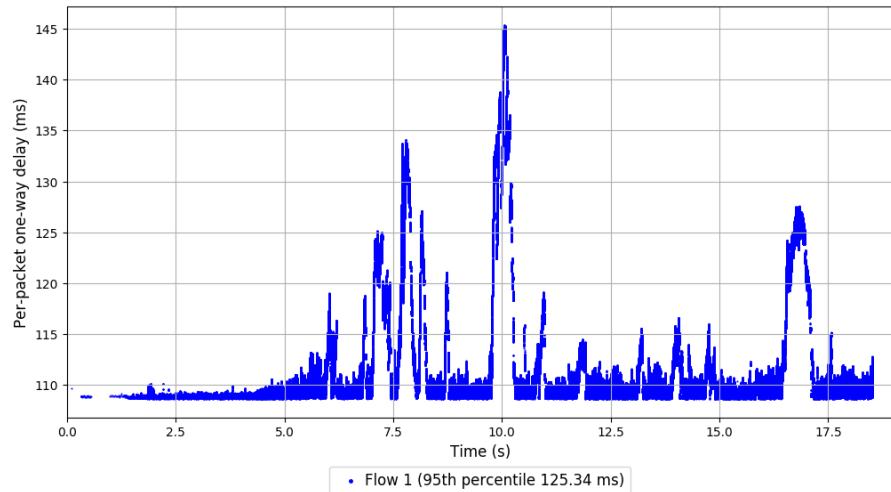
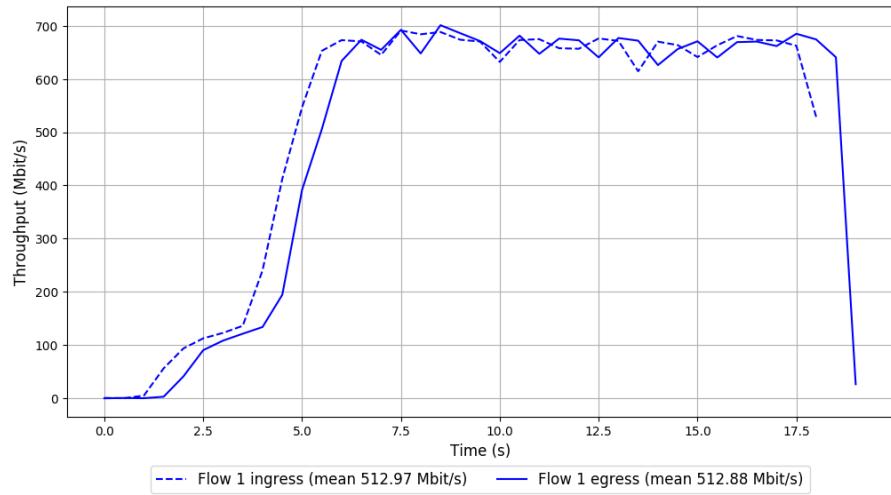
Start at: 2019-01-21 03:48:45

End at: 2019-01-21 03:49:15

Local clock offset: 12.714 ms

Remote clock offset: 14.047 ms

Run 1: Report of Indigo-MusesC5 — Data Link

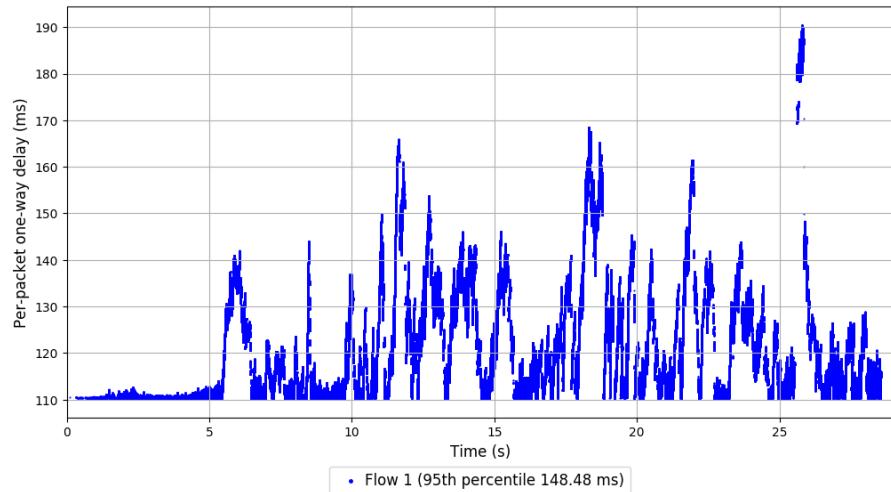
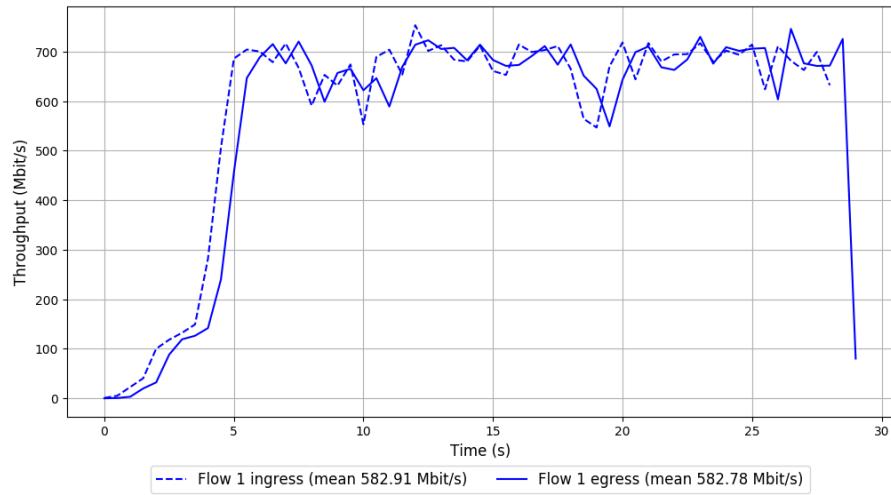


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 04:20:44
End at: 2019-01-21 04:21:14
Local clock offset: 17.851 ms
Remote clock offset: 19.938 ms

# Below is generated by plot.py at 2019-01-21 07:45:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 582.78 Mbit/s
95th percentile per-packet one-way delay: 148.476 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 582.78 Mbit/s
95th percentile per-packet one-way delay: 148.476 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesC5 — Data Link

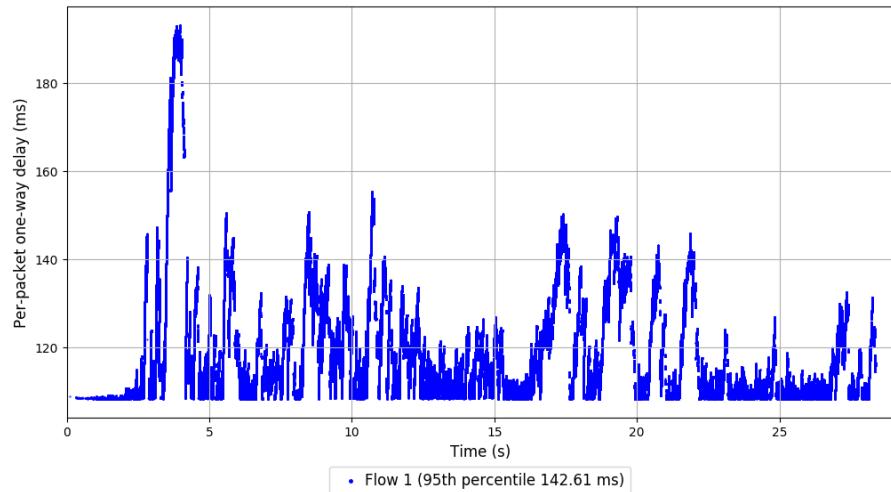
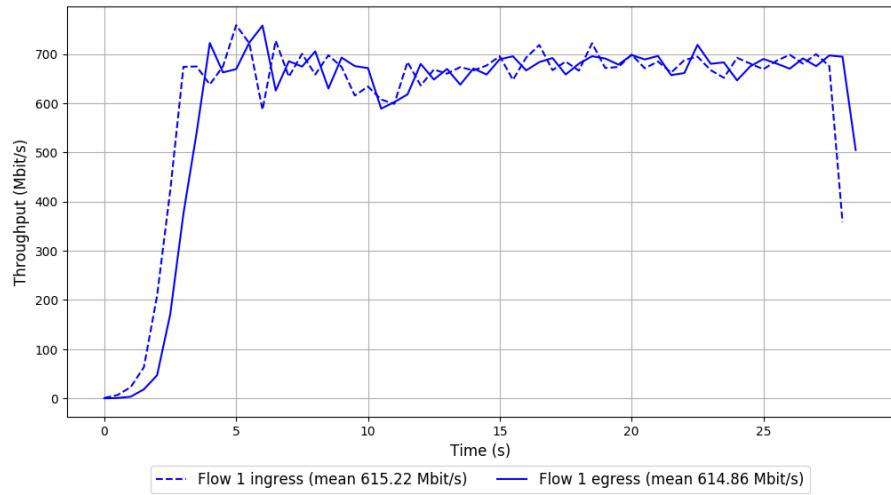


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 04:52:46
End at: 2019-01-21 04:53:16
Local clock offset: 15.131 ms
Remote clock offset: 16.135 ms

# Below is generated by plot.py at 2019-01-21 07:47:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 614.86 Mbit/s
95th percentile per-packet one-way delay: 142.613 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 614.86 Mbit/s
95th percentile per-packet one-way delay: 142.613 ms
Loss rate: 0.06%
```

Run 3: Report of Indigo-MusesC5 — Data Link

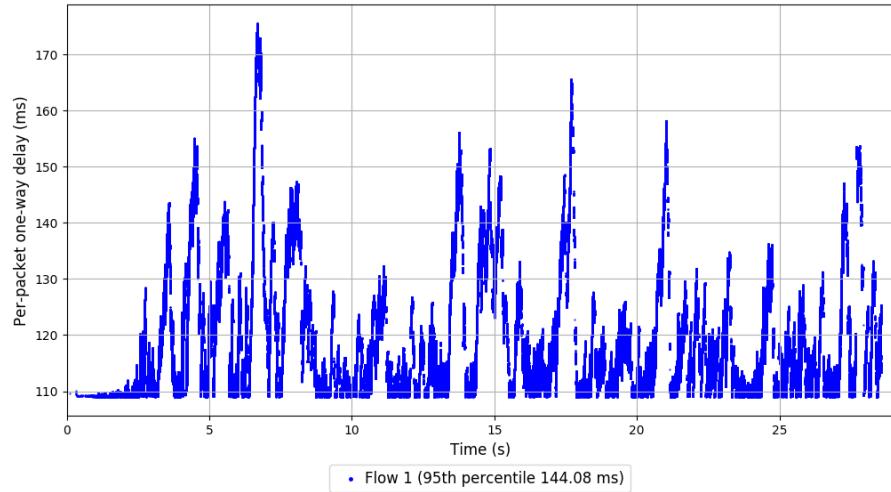
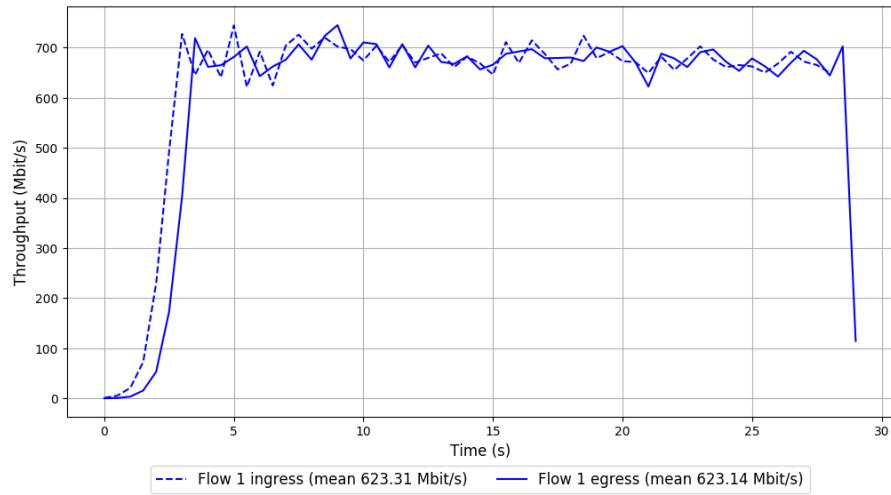


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 05:24:38
End at: 2019-01-21 05:25:08
Local clock offset: 8.519 ms
Remote clock offset: 9.092 ms

# Below is generated by plot.py at 2019-01-21 07:47:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 623.14 Mbit/s
95th percentile per-packet one-way delay: 144.084 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 623.14 Mbit/s
95th percentile per-packet one-way delay: 144.084 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesC5 — Data Link

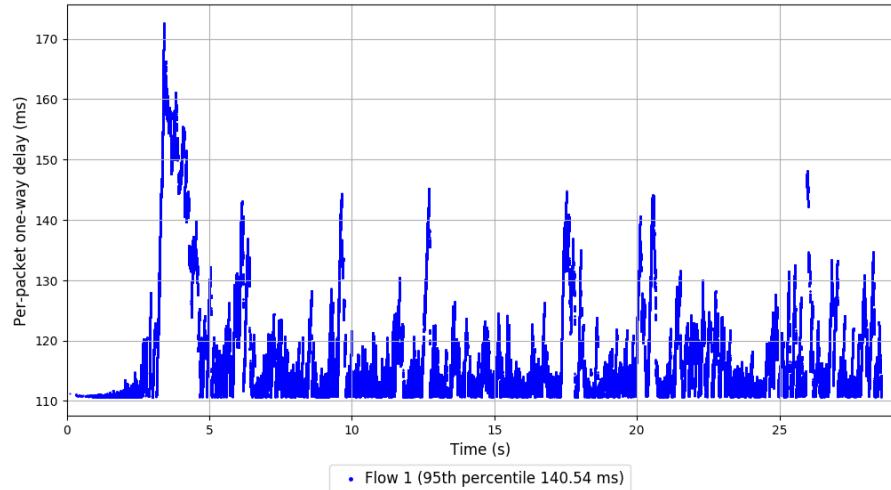
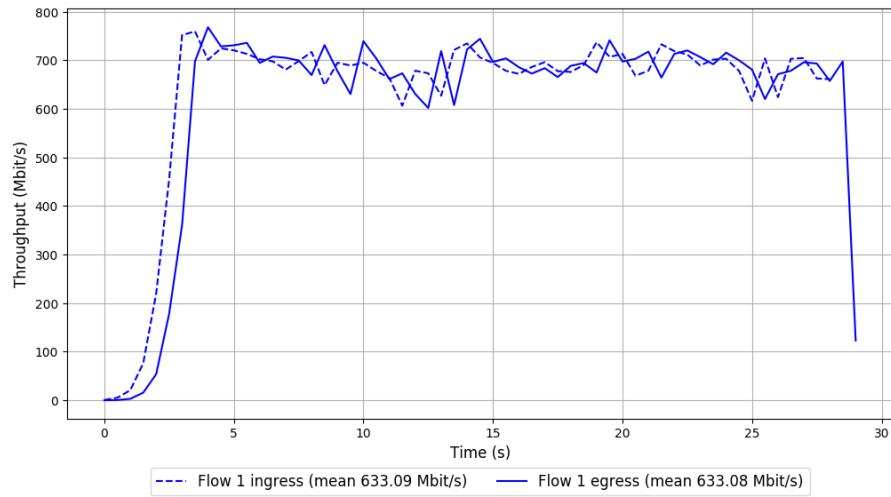


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 05:56:22
End at: 2019-01-21 05:56:52
Local clock offset: 3.372 ms
Remote clock offset: 4.729 ms

# Below is generated by plot.py at 2019-01-21 07:49:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 633.08 Mbit/s
95th percentile per-packet one-way delay: 140.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 633.08 Mbit/s
95th percentile per-packet one-way delay: 140.543 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC5 — Data Link

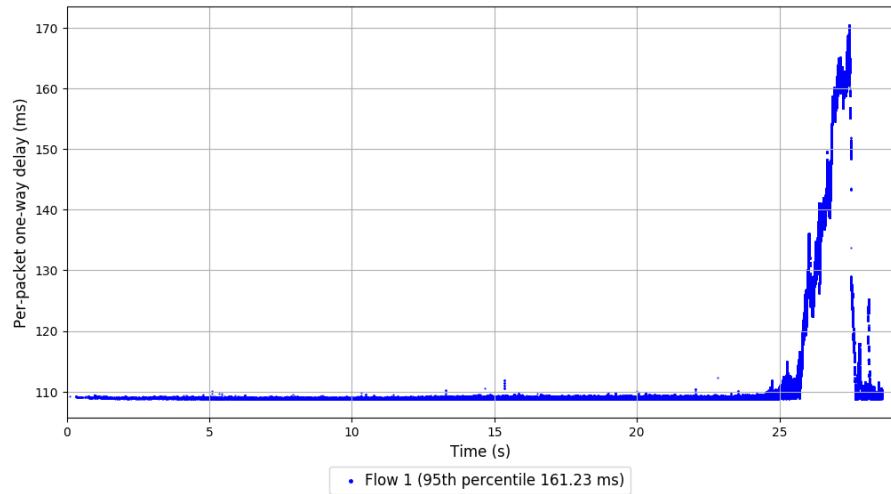
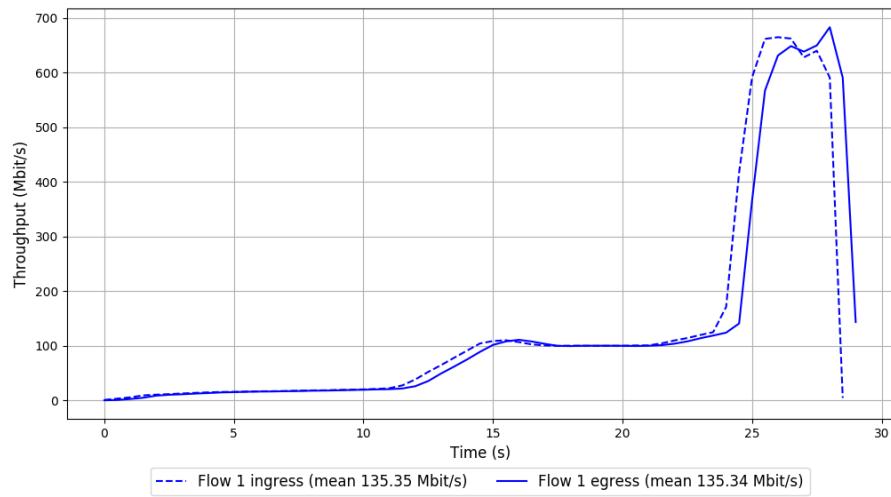


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 04:05:35
End at: 2019-01-21 04:06:05
Local clock offset: 20.85 ms
Remote clock offset: 23.0 ms

# Below is generated by plot.py at 2019-01-21 07:49:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.34 Mbit/s
95th percentile per-packet one-way delay: 161.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 135.34 Mbit/s
95th percentile per-packet one-way delay: 161.227 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link

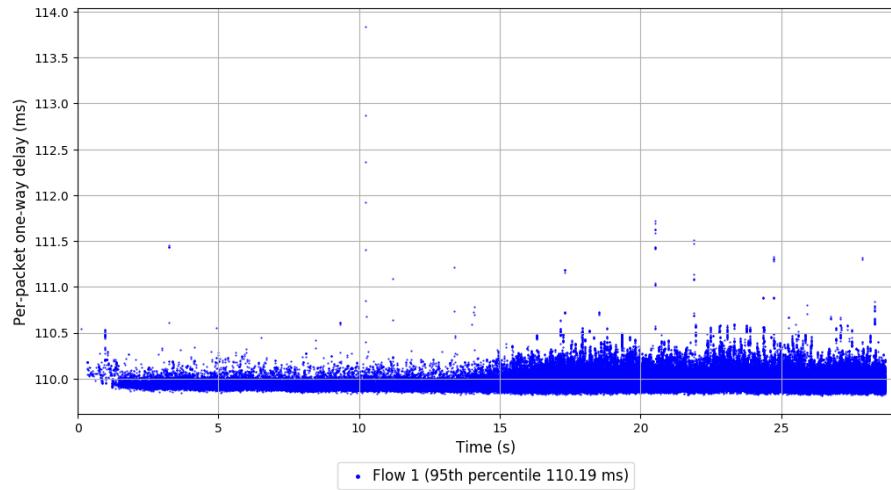
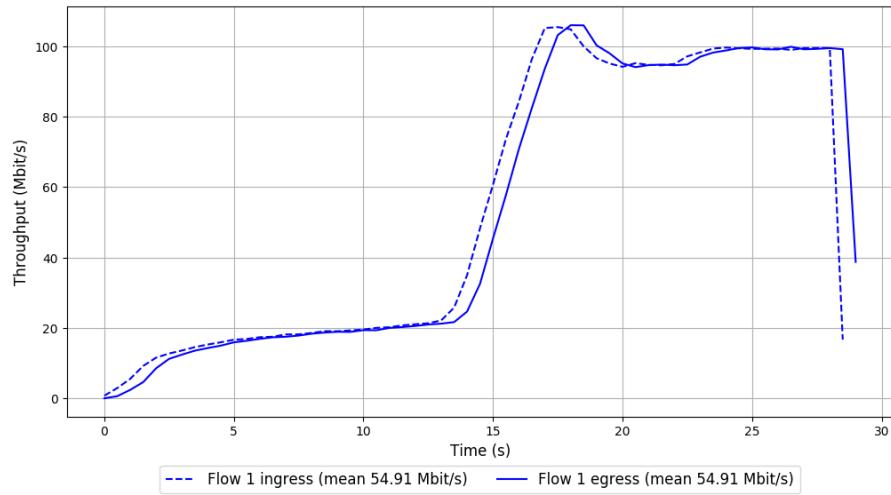


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 04:37:56
End at: 2019-01-21 04:38:26
Local clock offset: 31.781 ms
Remote clock offset: 34.419 ms

# Below is generated by plot.py at 2019-01-21 07:49:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.91 Mbit/s
95th percentile per-packet one-way delay: 110.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.91 Mbit/s
95th percentile per-packet one-way delay: 110.185 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesD — Data Link

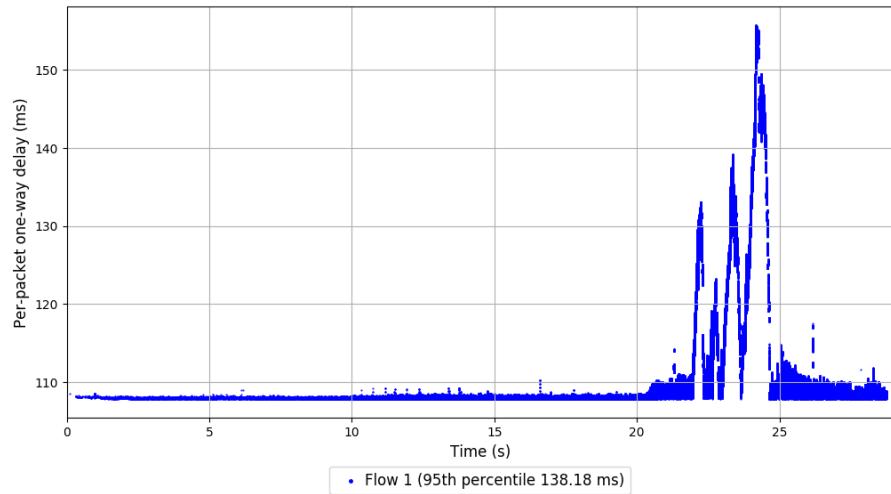
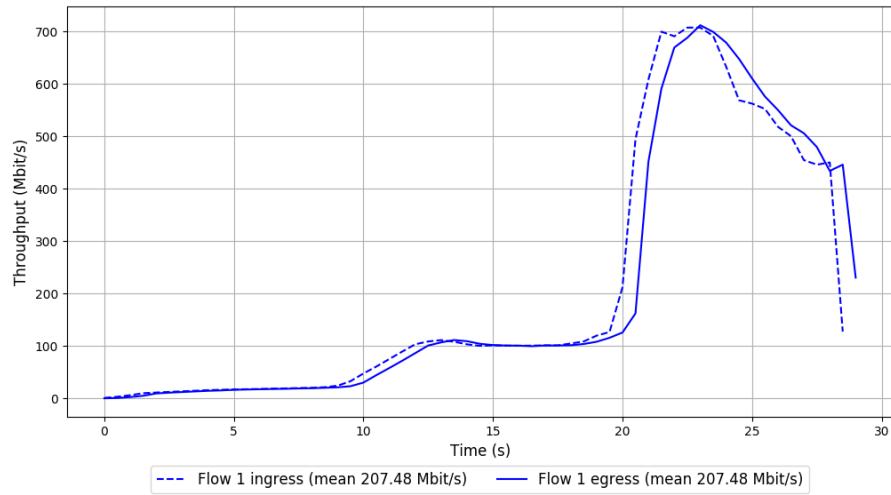


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 05:09:48
End at: 2019-01-21 05:10:18
Local clock offset: 16.036 ms
Remote clock offset: 16.752 ms

# Below is generated by plot.py at 2019-01-21 07:49:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.48 Mbit/s
95th percentile per-packet one-way delay: 138.179 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 207.48 Mbit/s
95th percentile per-packet one-way delay: 138.179 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesD — Data Link

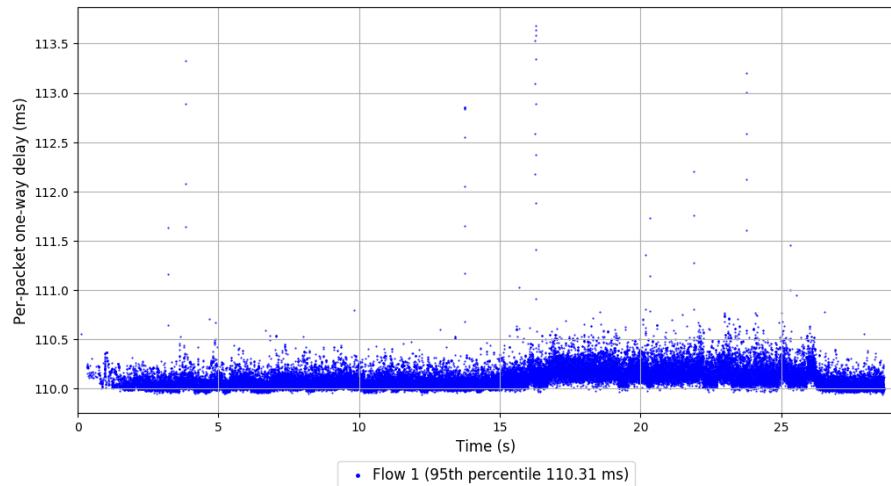
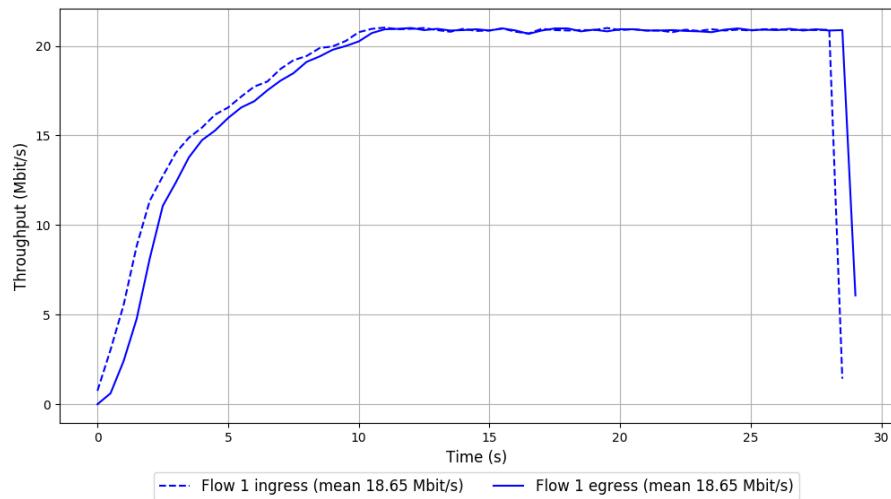


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 05:41:44
End at: 2019-01-21 05:42:14
Local clock offset: 6.352 ms
Remote clock offset: 7.734 ms

# Below is generated by plot.py at 2019-01-21 07:49:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.65 Mbit/s
95th percentile per-packet one-way delay: 110.315 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 18.65 Mbit/s
95th percentile per-packet one-way delay: 110.315 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesD — Data Link

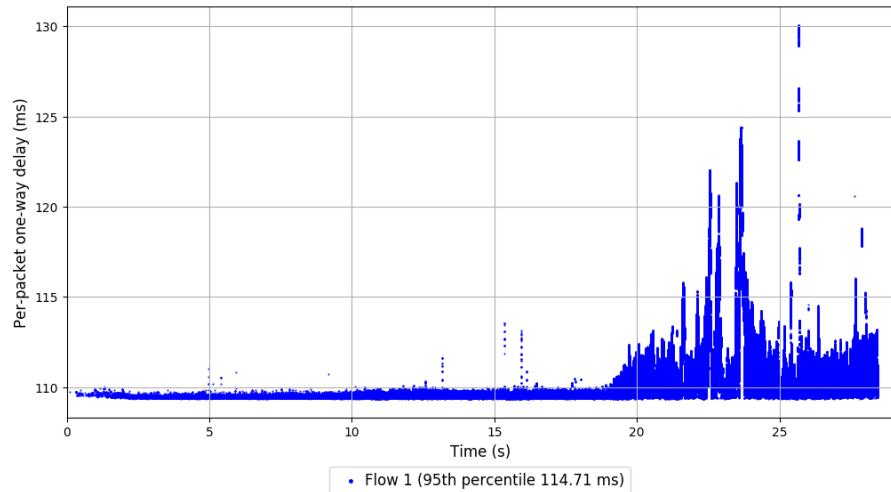
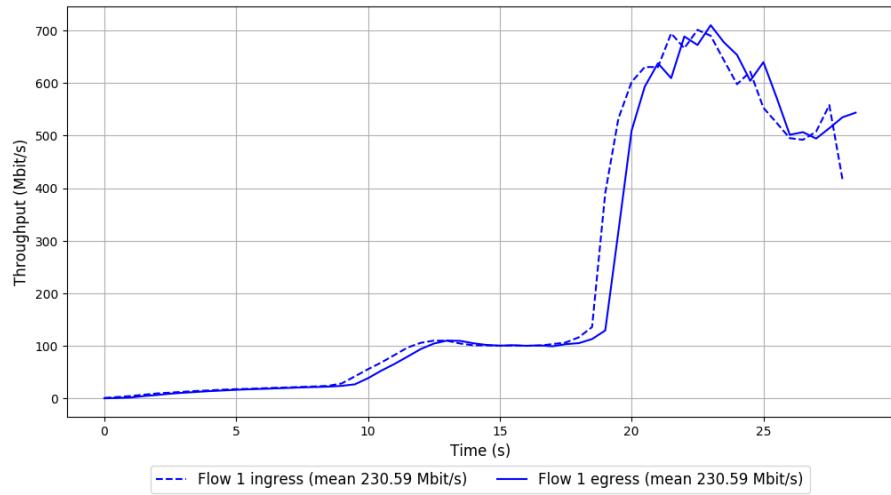


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 06:13:32
End at: 2019-01-21 06:14:02
Local clock offset: 3.242 ms
Remote clock offset: 1.997 ms

# Below is generated by plot.py at 2019-01-21 07:49:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.59 Mbit/s
95th percentile per-packet one-way delay: 114.713 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.59 Mbit/s
95th percentile per-packet one-way delay: 114.713 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesD — Data Link

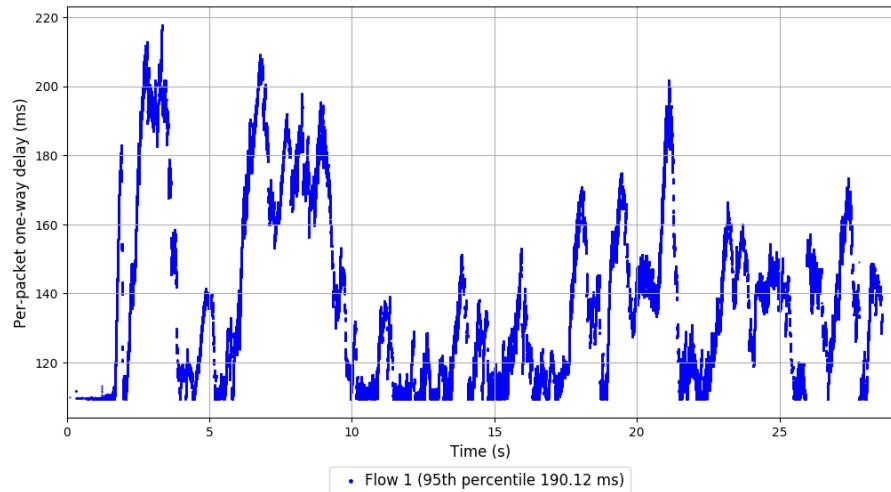
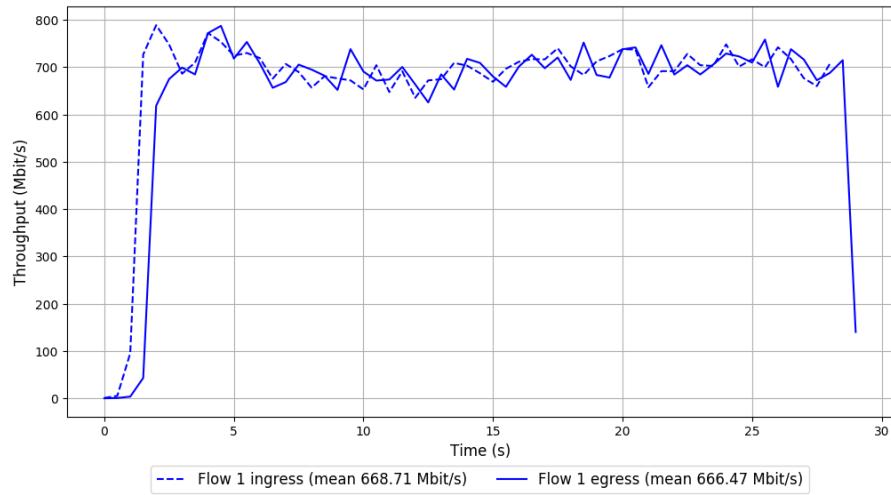


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 04:02:01
End at: 2019-01-21 04:02:31
Local clock offset: 16.847 ms
Remote clock offset: 18.252 ms

# Below is generated by plot.py at 2019-01-21 07:55:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 666.47 Mbit/s
95th percentile per-packet one-way delay: 190.125 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 666.47 Mbit/s
95th percentile per-packet one-way delay: 190.125 ms
Loss rate: 0.33%
```

Run 1: Report of Indigo-MusesT — Data Link

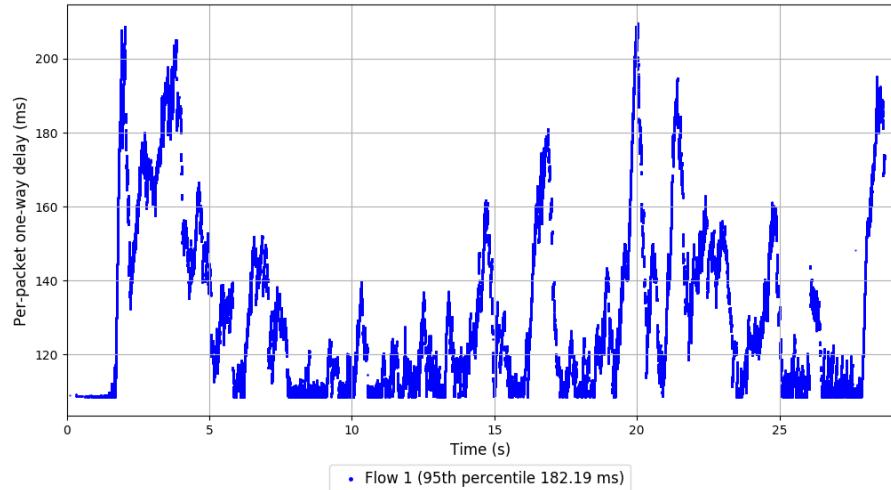
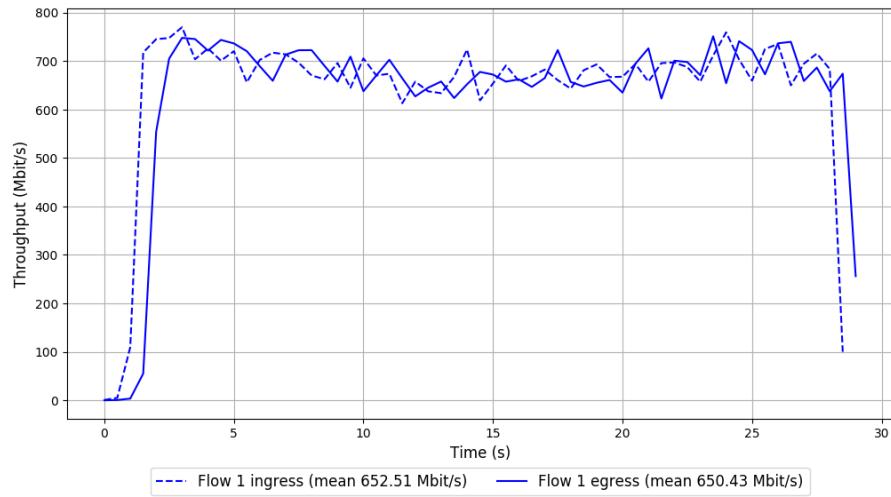


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 04:34:24
End at: 2019-01-21 04:34:54
Local clock offset: 29.289 ms
Remote clock offset: 30.697 ms

# Below is generated by plot.py at 2019-01-21 07:55:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 650.43 Mbit/s
95th percentile per-packet one-way delay: 182.194 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 650.43 Mbit/s
95th percentile per-packet one-way delay: 182.194 ms
Loss rate: 0.32%
```

Run 2: Report of Indigo-MusesT — Data Link

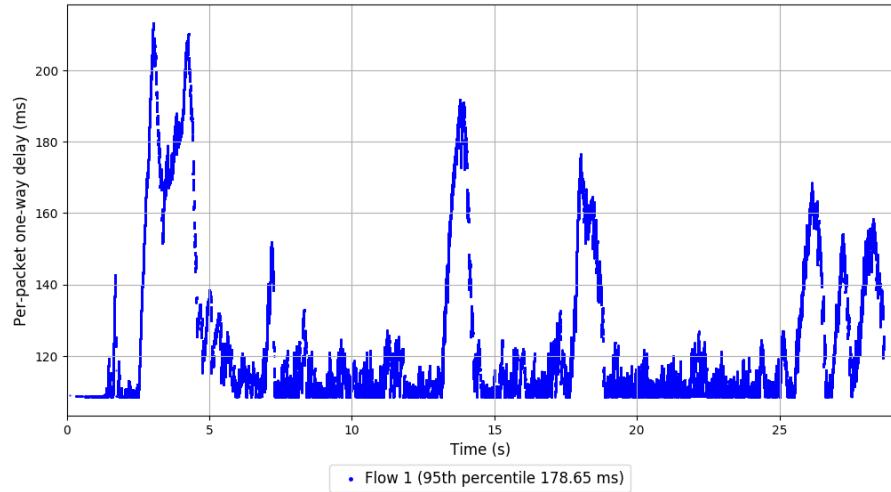
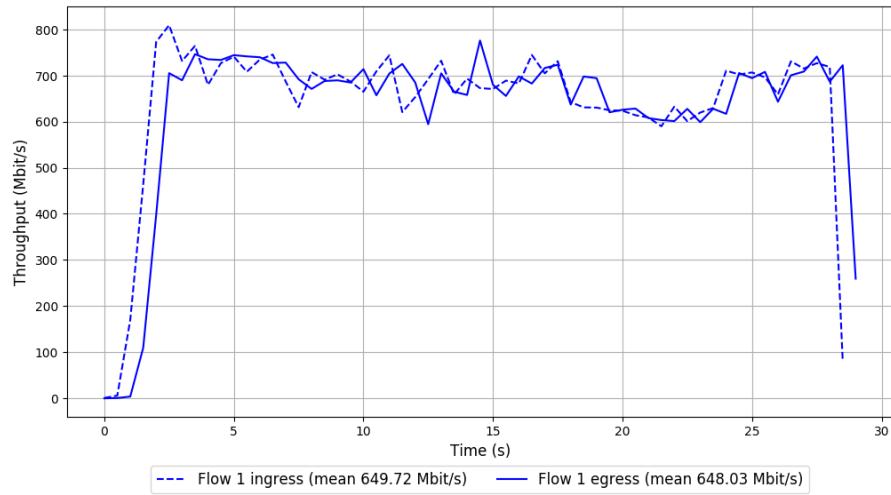


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 05:06:19
End at: 2019-01-21 05:06:49
Local clock offset: 14.224 ms
Remote clock offset: 15.484 ms

# Below is generated by plot.py at 2019-01-21 07:57:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 648.03 Mbit/s
95th percentile per-packet one-way delay: 178.651 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 648.03 Mbit/s
95th percentile per-packet one-way delay: 178.651 ms
Loss rate: 0.25%
```

Run 3: Report of Indigo-MusesT — Data Link

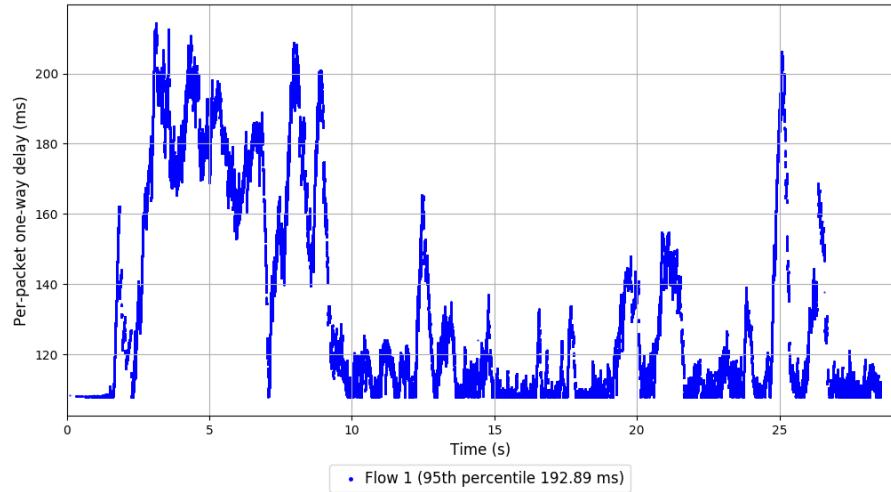
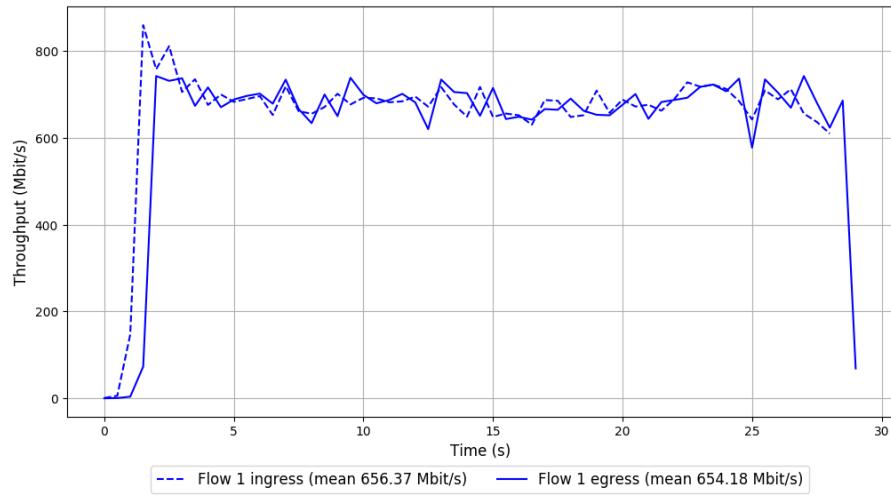


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 05:38:12
End at: 2019-01-21 05:38:42
Local clock offset: 7.731 ms
Remote clock offset: 7.246 ms

# Below is generated by plot.py at 2019-01-21 07:58:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 654.18 Mbit/s
95th percentile per-packet one-way delay: 192.886 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 654.18 Mbit/s
95th percentile per-packet one-way delay: 192.886 ms
Loss rate: 0.33%
```

Run 4: Report of Indigo-MusesT — Data Link

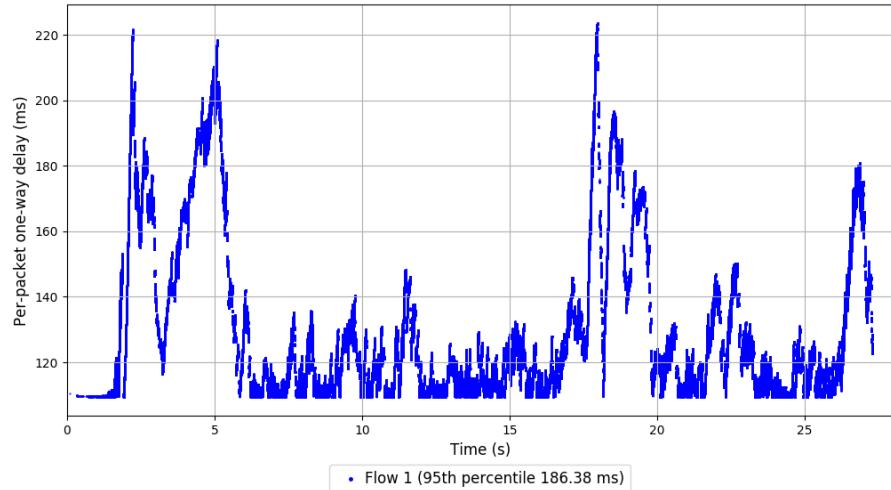
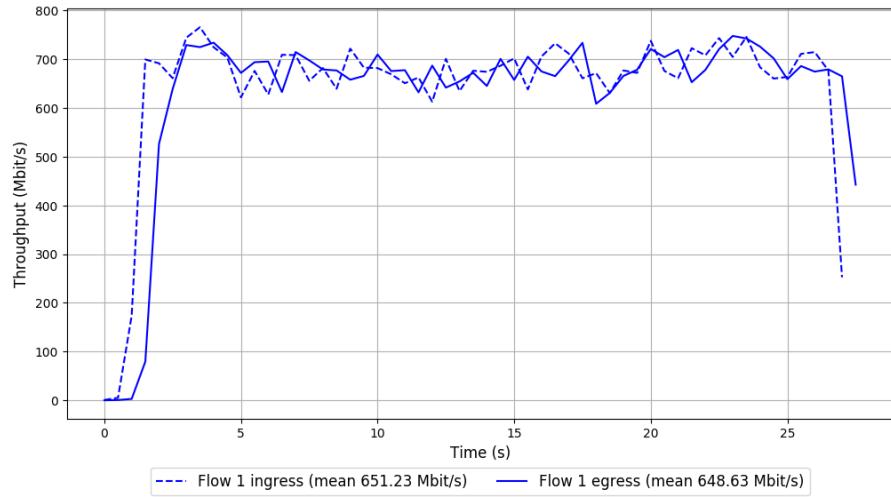


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 06:09:59
End at: 2019-01-21 06:10:29
Local clock offset: 2.547 ms
Remote clock offset: 1.771 ms

# Below is generated by plot.py at 2019-01-21 07:58:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 648.63 Mbit/s
95th percentile per-packet one-way delay: 186.383 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 648.63 Mbit/s
95th percentile per-packet one-way delay: 186.383 ms
Loss rate: 0.40%
```

Run 5: Report of Indigo-MusesT — Data Link

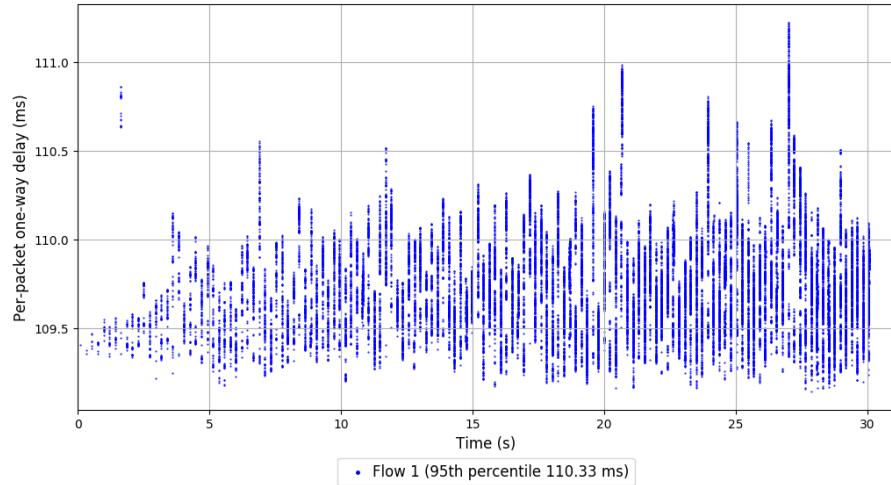
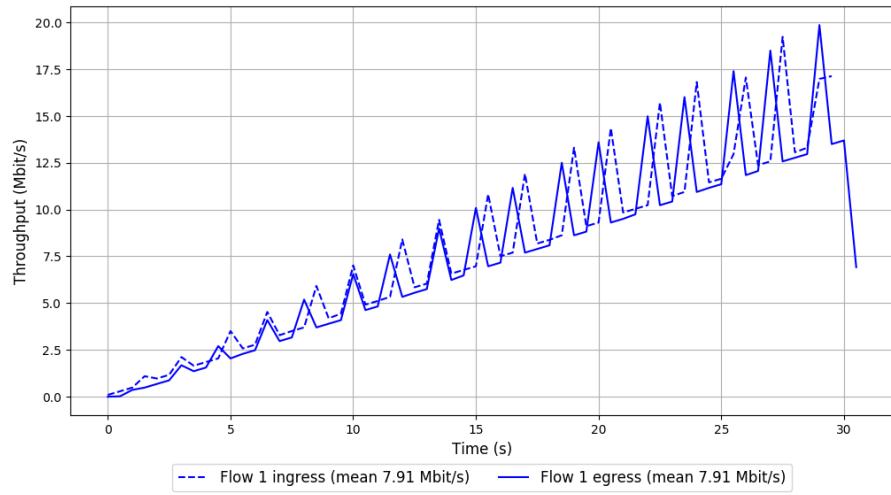


Run 1: Statistics of LEDBAT

```
Start at: 2019-01-21 03:56:26
End at: 2019-01-21 03:56:56
Local clock offset: 12.156 ms
Remote clock offset: 12.976 ms

# Below is generated by plot.py at 2019-01-21 07:58:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 110.327 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 110.327 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

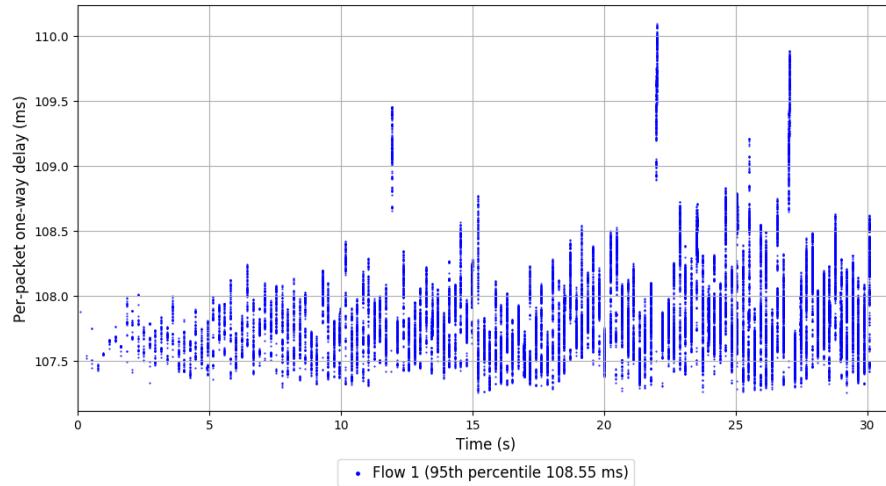
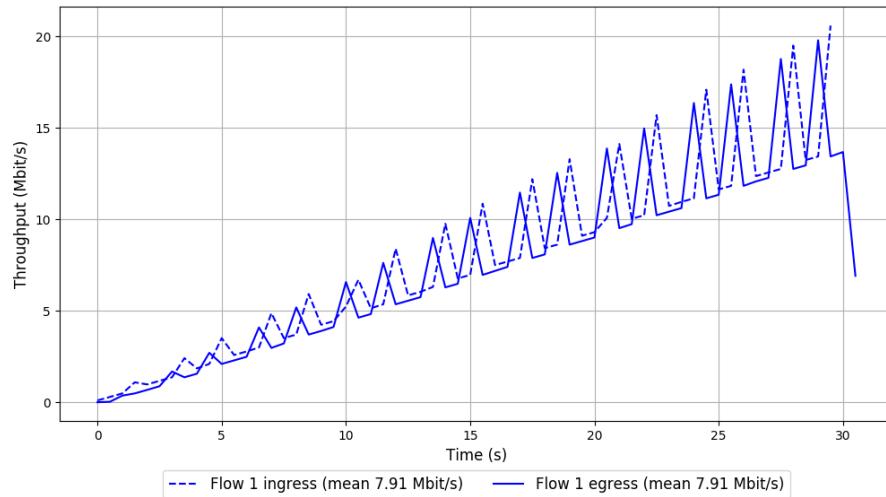


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-21 04:28:48
End at: 2019-01-21 04:29:18
Local clock offset: 25.153 ms
Remote clock offset: 25.66 ms

# Below is generated by plot.py at 2019-01-21 07:58:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 108.550 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 108.550 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

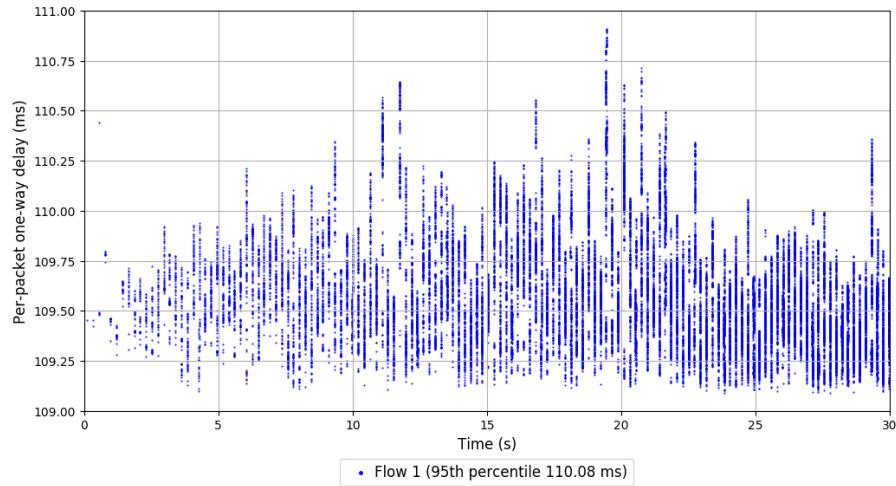
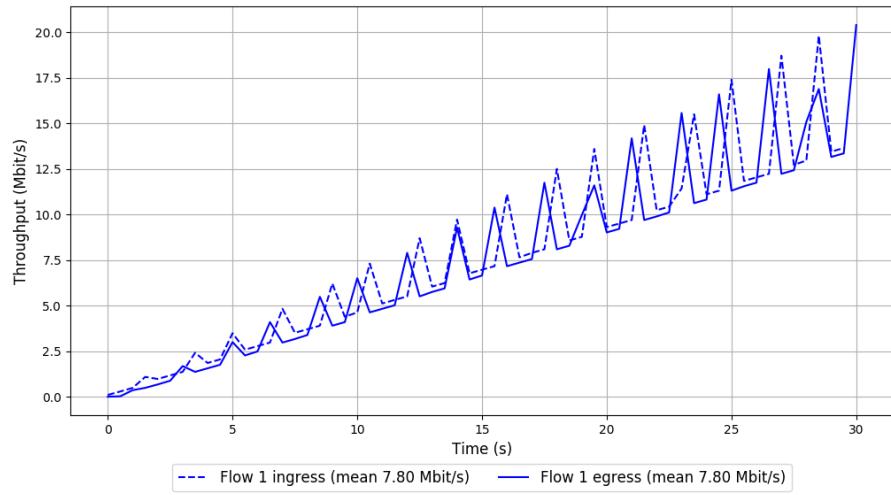


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-21 05:00:42
End at: 2019-01-21 05:01:12
Local clock offset: 13.439 ms
Remote clock offset: 14.365 ms

# Below is generated by plot.py at 2019-01-21 07:58:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 110.078 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 110.078 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

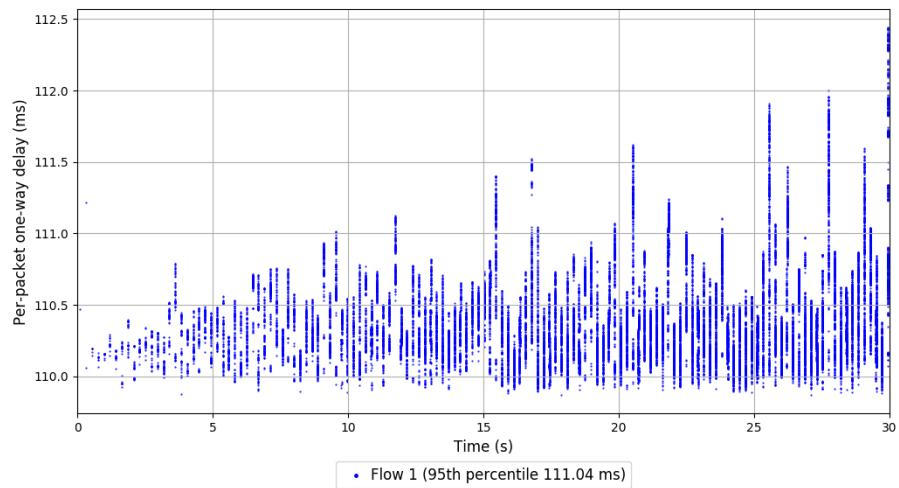
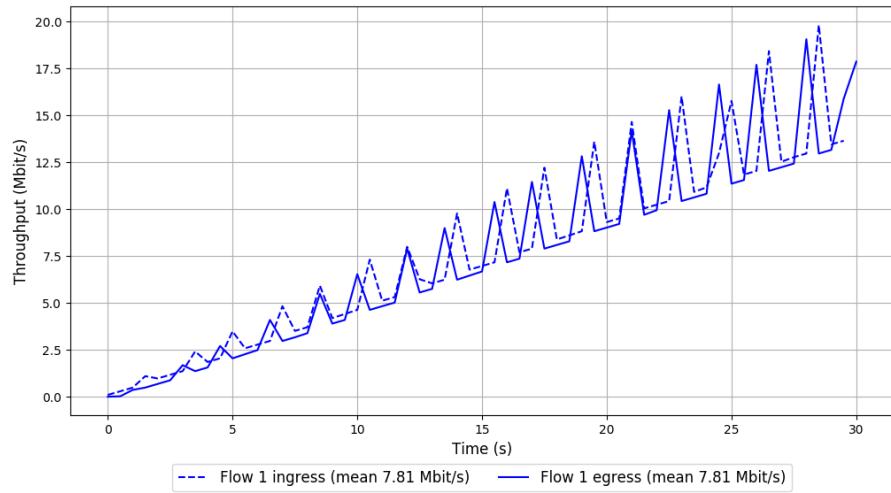


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-21 05:32:37
End at: 2019-01-21 05:38:07
Local clock offset: 5.727 ms
Remote clock offset: 7.058 ms

# Below is generated by plot.py at 2019-01-21 07:58:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 111.036 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 111.036 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

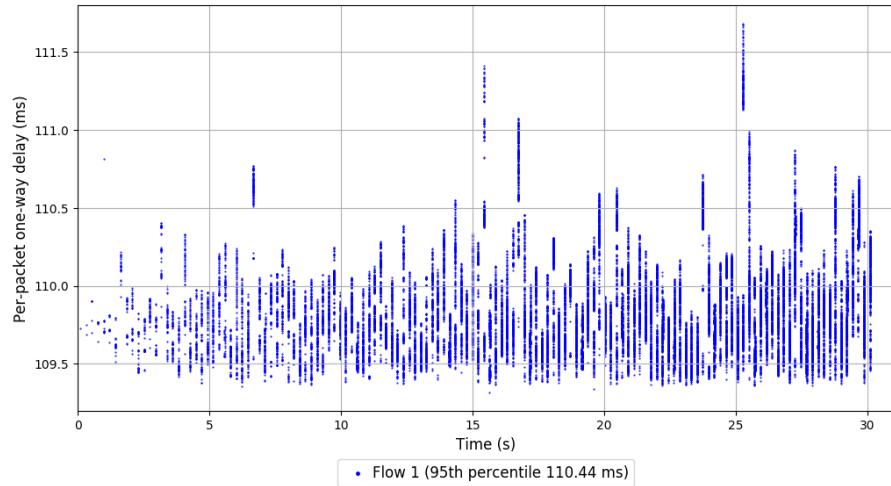
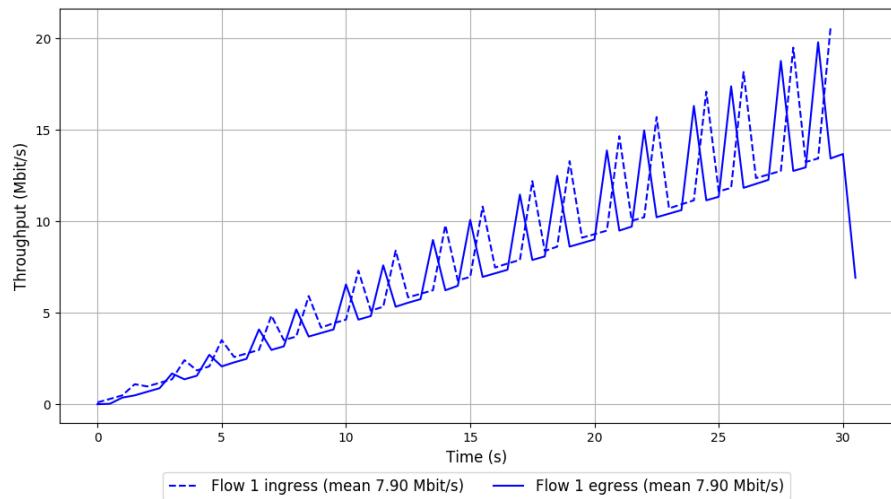


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-21 06:04:26
End at: 2019-01-21 06:04:56
Local clock offset: 3.292 ms
Remote clock offset: 2.541 ms

# Below is generated by plot.py at 2019-01-21 07:58:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 110.438 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 110.438 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

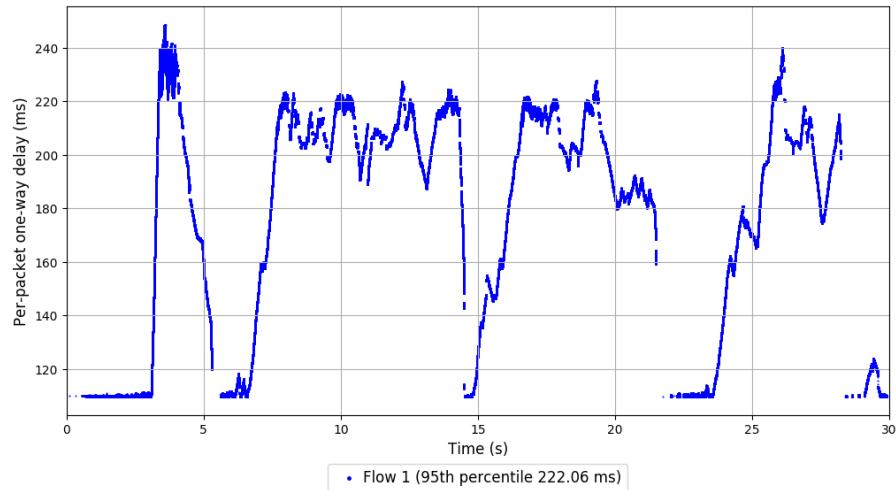
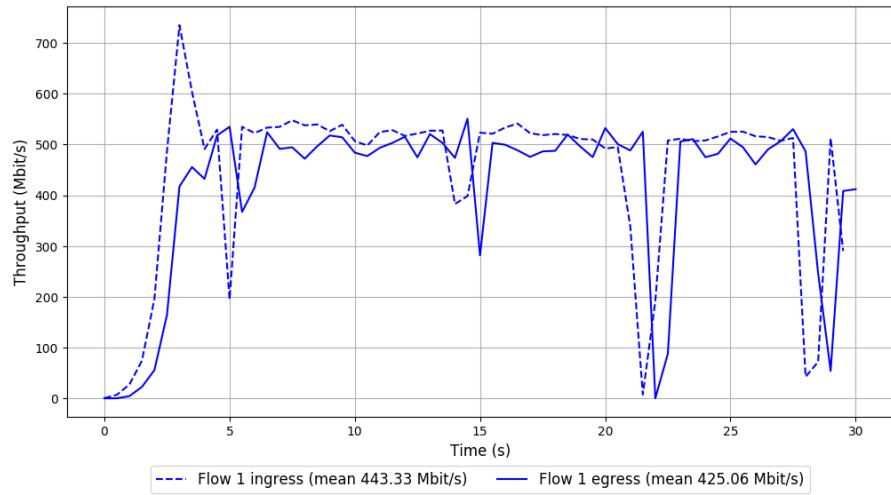


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-01-21 04:00:21
End at: 2019-01-21 04:00:51
Local clock offset: 14.783 ms
Remote clock offset: 16.369 ms

# Below is generated by plot.py at 2019-01-21 08:07:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 425.06 Mbit/s
95th percentile per-packet one-way delay: 222.060 ms
Loss rate: 4.12%
-- Flow 1:
Average throughput: 425.06 Mbit/s
95th percentile per-packet one-way delay: 222.060 ms
Loss rate: 4.12%
```

Run 1: Report of PCC-Allegro — Data Link

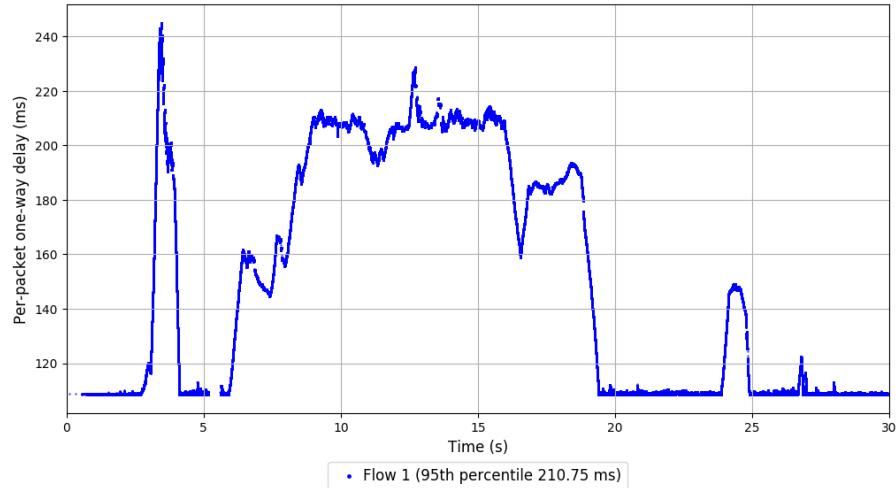
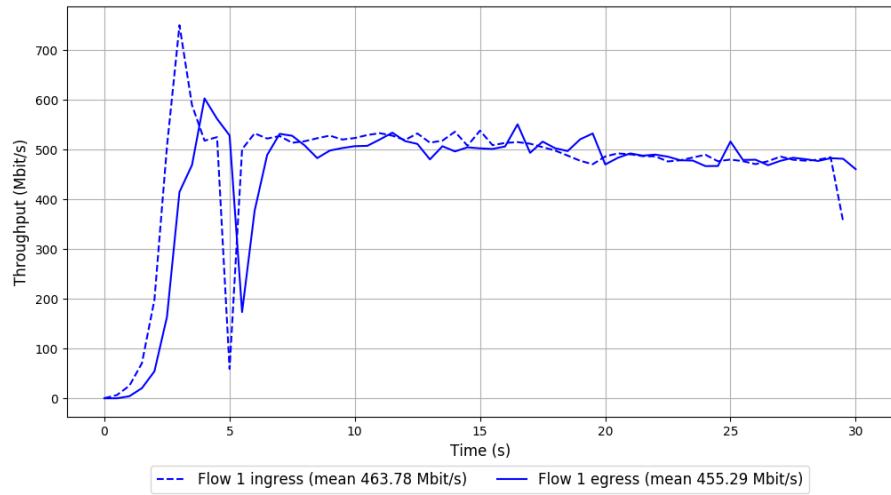


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-21 04:32:43
End at: 2019-01-21 04:33:13
Local clock offset: 27.041 ms
Remote clock offset: 29.014 ms

# Below is generated by plot.py at 2019-01-21 08:08:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 455.29 Mbit/s
95th percentile per-packet one-way delay: 210.750 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 455.29 Mbit/s
95th percentile per-packet one-way delay: 210.750 ms
Loss rate: 1.83%
```

Run 2: Report of PCC-Allegro — Data Link

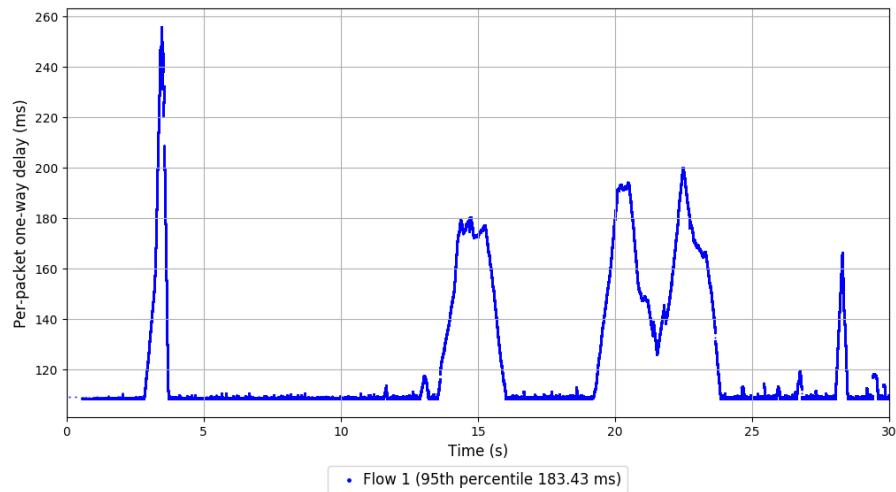
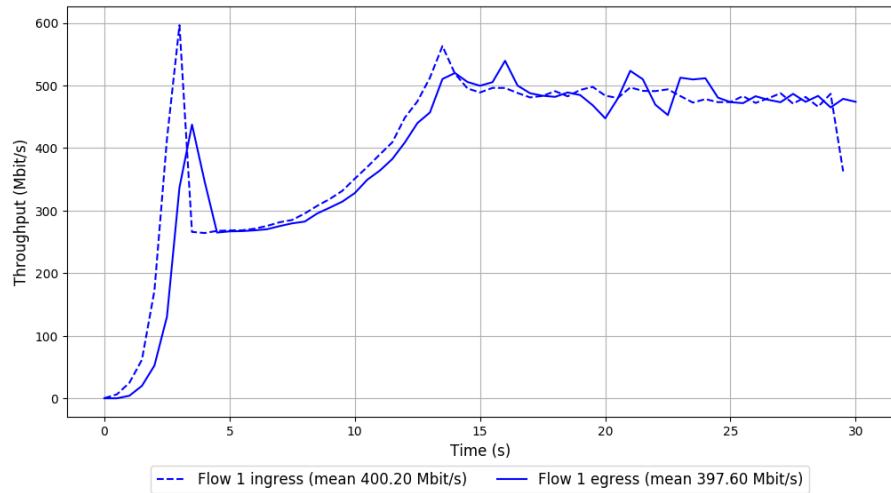


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-21 05:04:41
End at: 2019-01-21 05:05:11
Local clock offset: 14.729 ms
Remote clock offset: 15.205 ms

# Below is generated by plot.py at 2019-01-21 08:08:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 397.60 Mbit/s
95th percentile per-packet one-way delay: 183.426 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 397.60 Mbit/s
95th percentile per-packet one-way delay: 183.426 ms
Loss rate: 0.65%
```

Run 3: Report of PCC-Allegro — Data Link

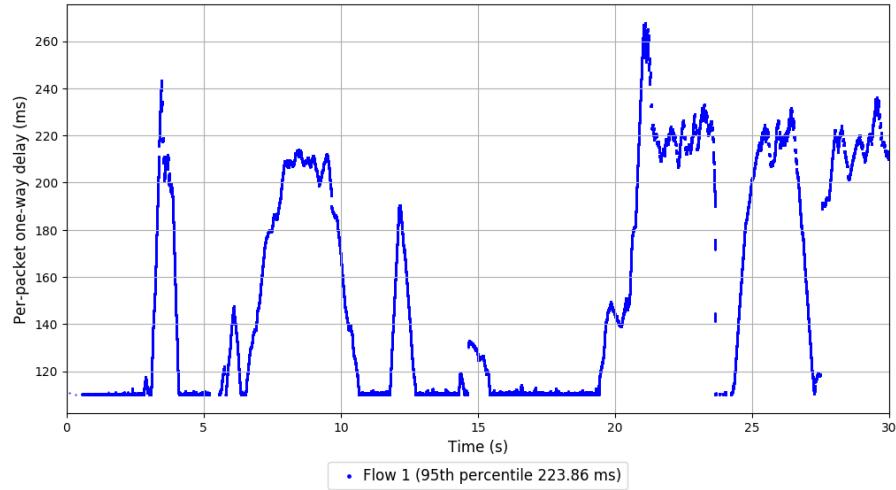
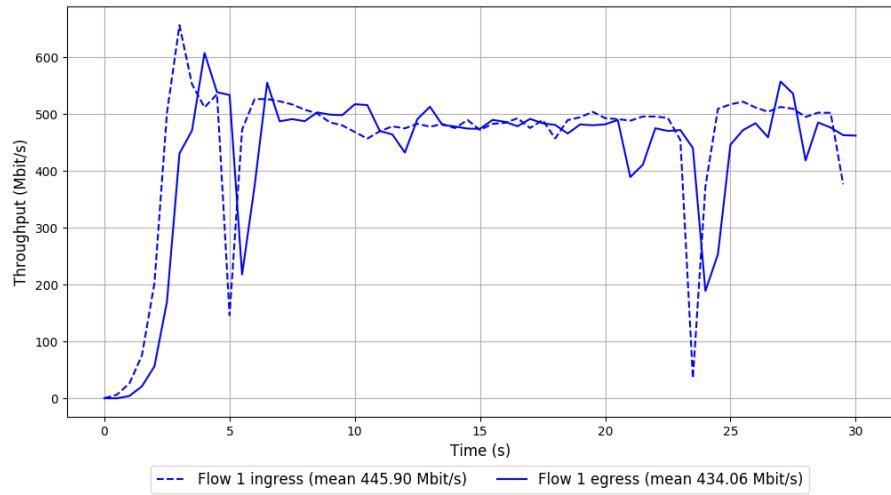


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-21 05:36:30
End at: 2019-01-21 05:37:00
Local clock offset: 5.929 ms
Remote clock offset: 7.481 ms

# Below is generated by plot.py at 2019-01-21 08:15:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 434.06 Mbit/s
95th percentile per-packet one-way delay: 223.860 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 434.06 Mbit/s
95th percentile per-packet one-way delay: 223.860 ms
Loss rate: 2.65%
```

Run 4: Report of PCC-Allegro — Data Link

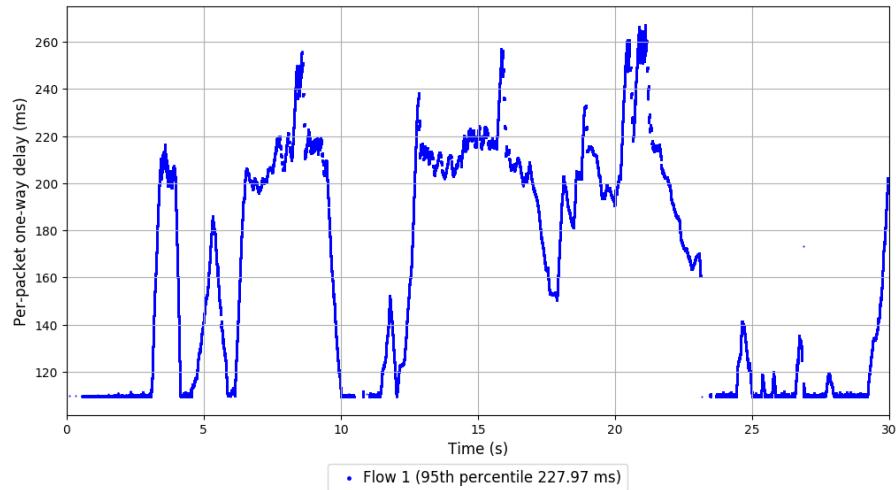
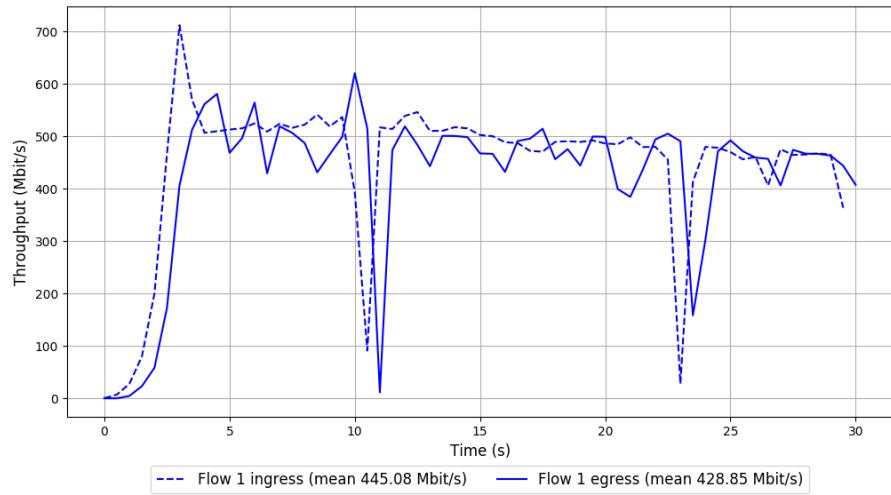


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-21 06:08:17
End at: 2019-01-21 06:08:47
Local clock offset: 3.158 ms
Remote clock offset: 2.208 ms

# Below is generated by plot.py at 2019-01-21 08:16:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 428.85 Mbit/s
95th percentile per-packet one-way delay: 227.965 ms
Loss rate: 3.65%
-- Flow 1:
Average throughput: 428.85 Mbit/s
95th percentile per-packet one-way delay: 227.965 ms
Loss rate: 3.65%
```

Run 5: Report of PCC-Allegro — Data Link

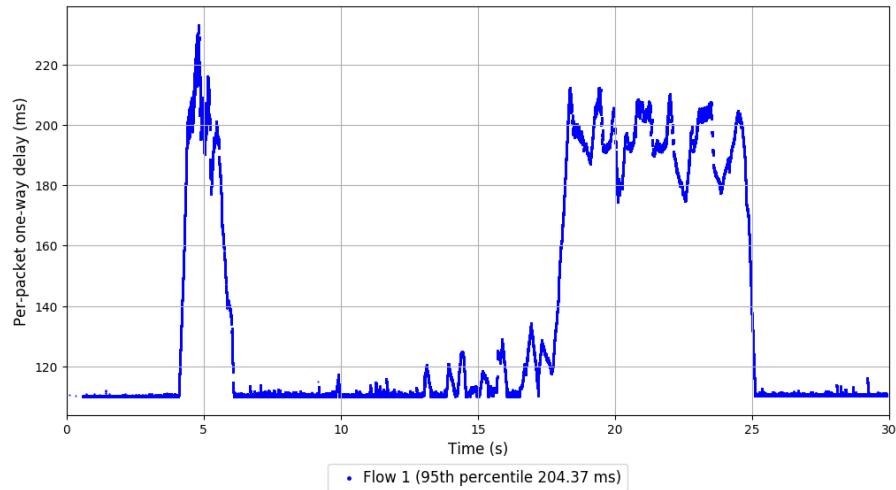
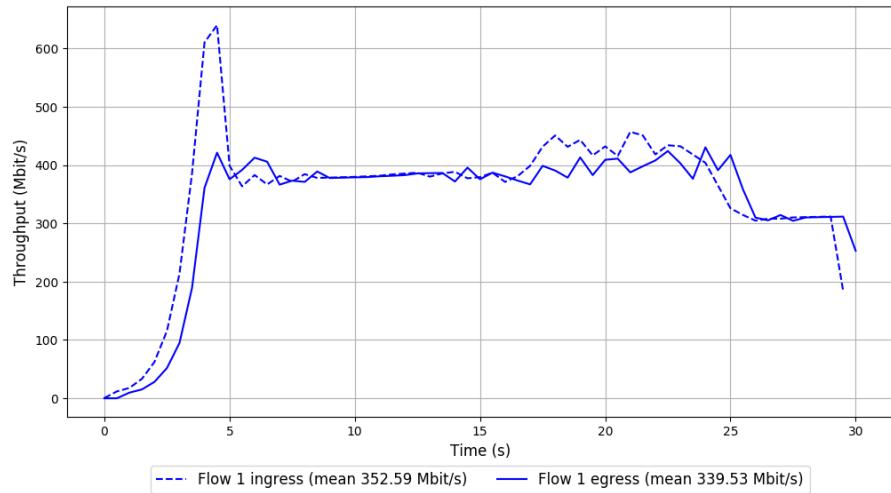


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-21 03:41:18
End at: 2019-01-21 03:41:48
Local clock offset: 9.129 ms
Remote clock offset: 10.564 ms

# Below is generated by plot.py at 2019-01-21 08:16:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.53 Mbit/s
95th percentile per-packet one-way delay: 204.369 ms
Loss rate: 3.70%
-- Flow 1:
Average throughput: 339.53 Mbit/s
95th percentile per-packet one-way delay: 204.369 ms
Loss rate: 3.70%
```

Run 1: Report of PCC-Expr — Data Link

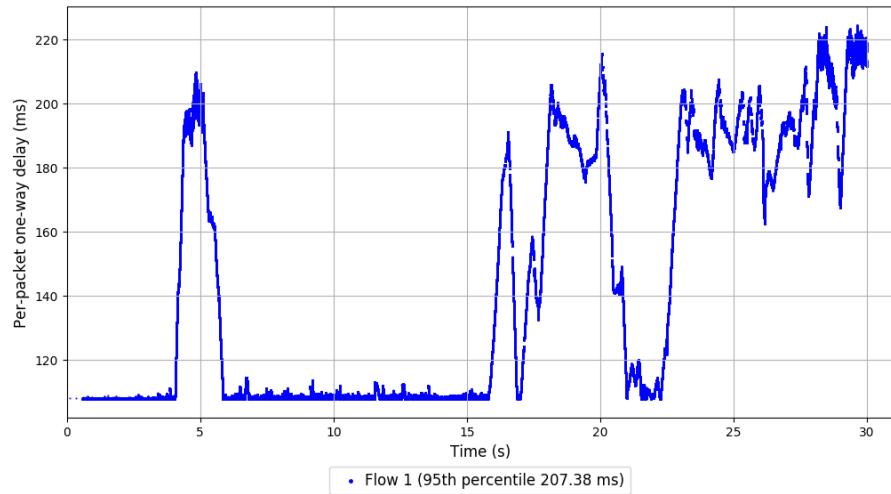
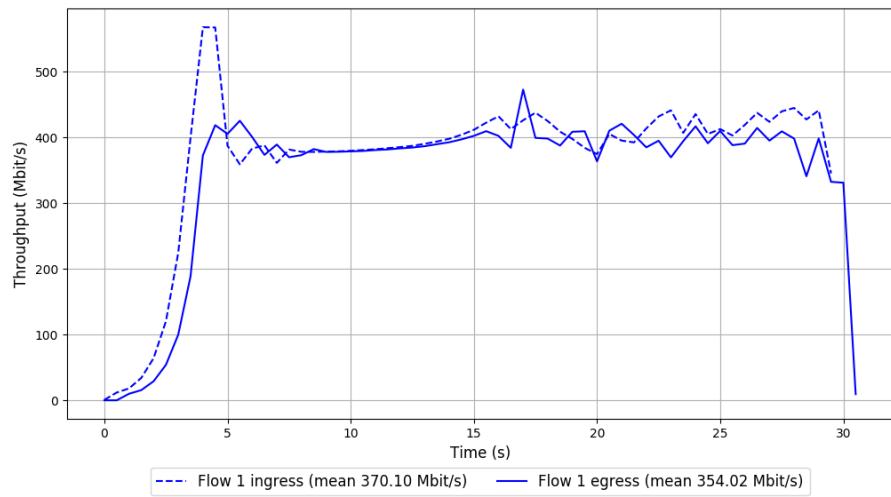


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-21 04:12:58
End at: 2019-01-21 04:13:28
Local clock offset: 18.098 ms
Remote clock offset: 18.928 ms

# Below is generated by plot.py at 2019-01-21 08:16:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 354.02 Mbit/s
95th percentile per-packet one-way delay: 207.376 ms
Loss rate: 4.34%
-- Flow 1:
Average throughput: 354.02 Mbit/s
95th percentile per-packet one-way delay: 207.376 ms
Loss rate: 4.34%
```

Run 2: Report of PCC-Expr — Data Link

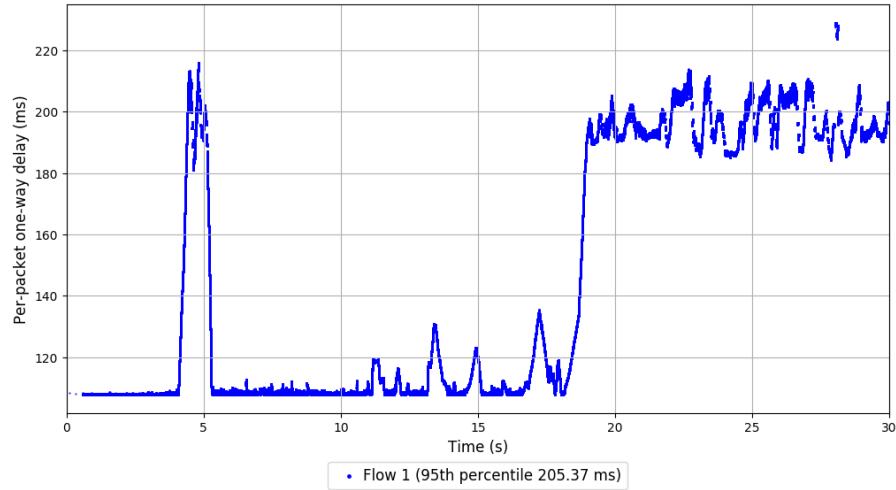
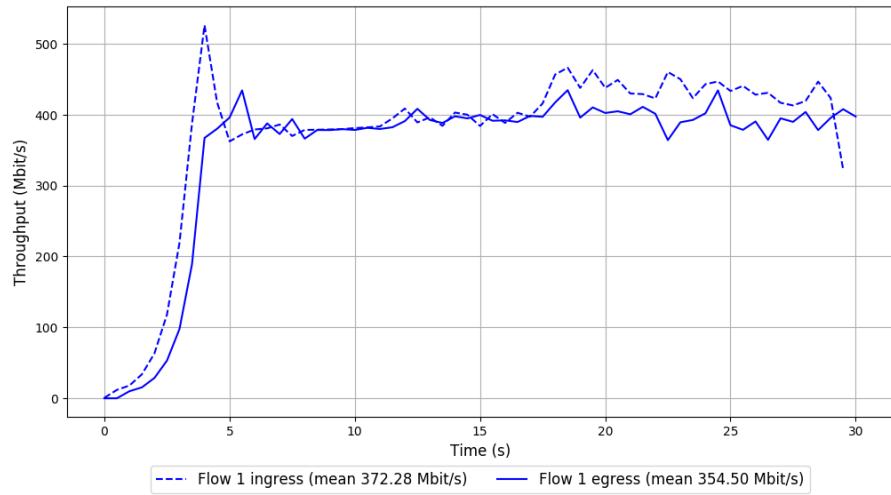


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-21 04:45:18
End at: 2019-01-21 04:45:48
Local clock offset: 25.008 ms
Remote clock offset: 26.061 ms

# Below is generated by plot.py at 2019-01-21 08:16:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 354.50 Mbit/s
95th percentile per-packet one-way delay: 205.374 ms
Loss rate: 4.77%
-- Flow 1:
Average throughput: 354.50 Mbit/s
95th percentile per-packet one-way delay: 205.374 ms
Loss rate: 4.77%
```

Run 3: Report of PCC-Expr — Data Link

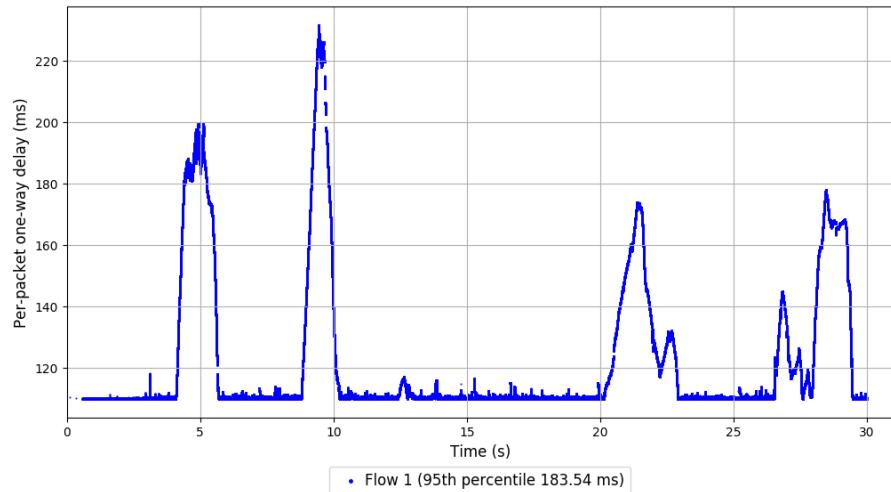
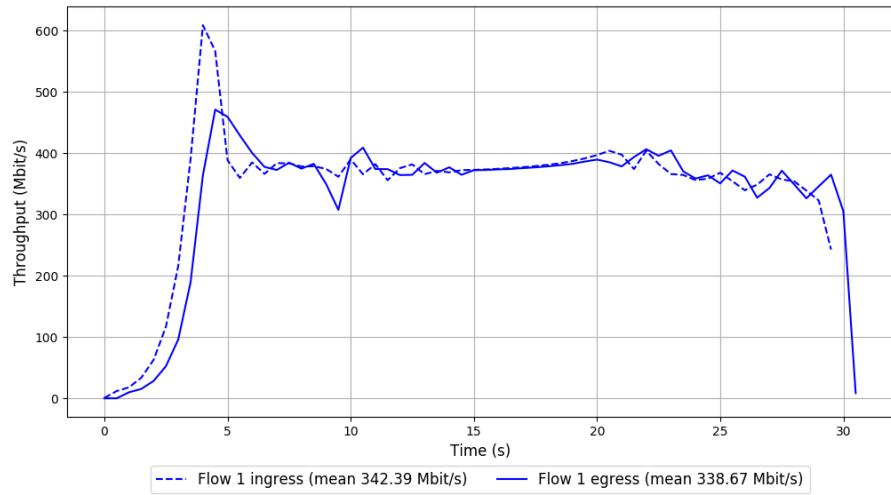


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-21 05:17:08
End at: 2019-01-21 05:17:38
Local clock offset: 14.392 ms
Remote clock offset: 16.437 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.67 Mbit/s
95th percentile per-packet one-way delay: 183.544 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 338.67 Mbit/s
95th percentile per-packet one-way delay: 183.544 ms
Loss rate: 1.09%
```

Run 4: Report of PCC-Expr — Data Link

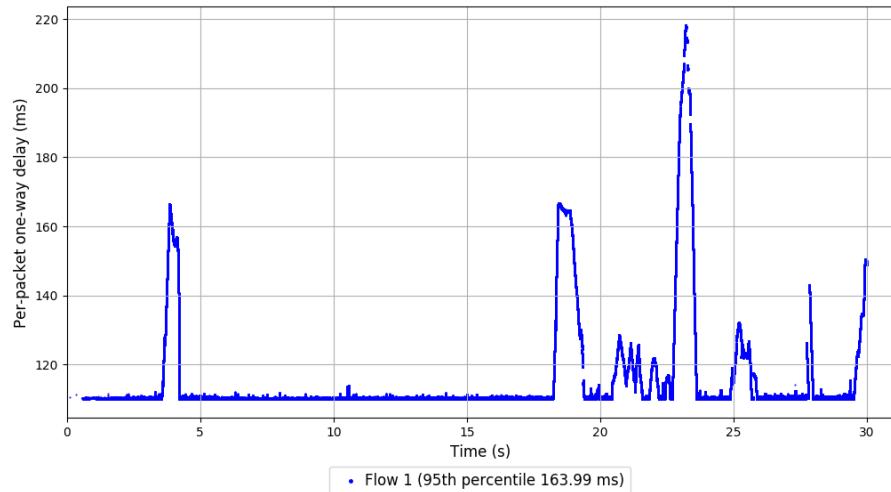
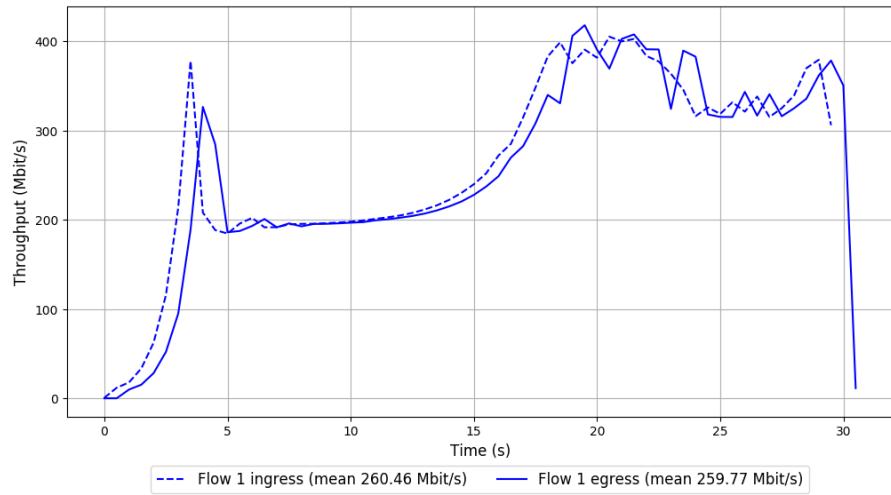


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-21 05:49:05
End at: 2019-01-21 05:49:35
Local clock offset: 7.442 ms
Remote clock offset: 9.127 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 259.77 Mbit/s
95th percentile per-packet one-way delay: 163.990 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 259.77 Mbit/s
95th percentile per-packet one-way delay: 163.990 ms
Loss rate: 0.26%
```

Run 5: Report of PCC-Expr — Data Link

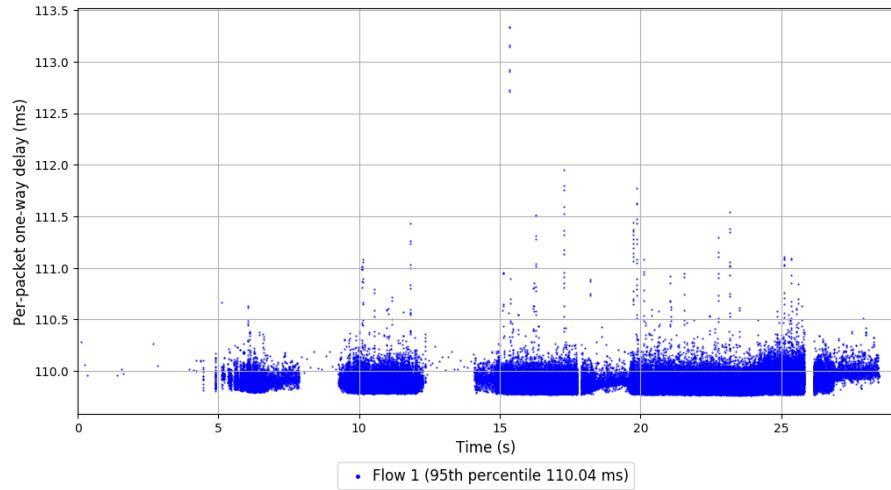
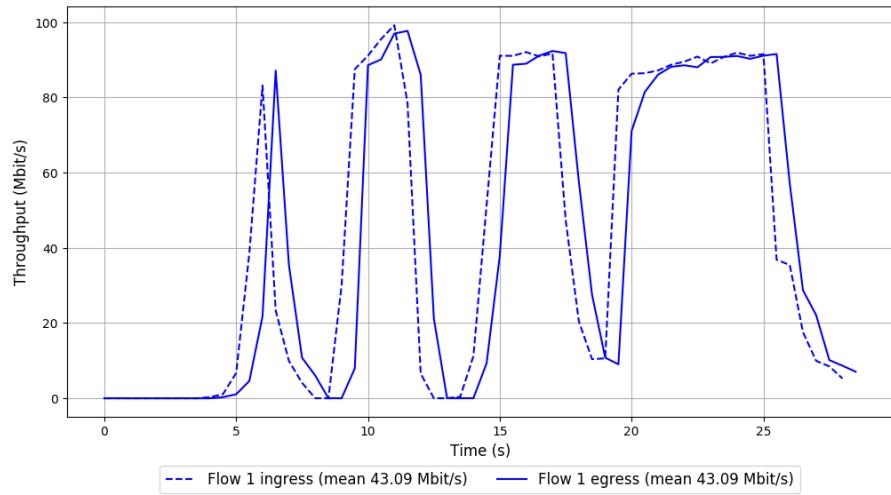


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-01-21 03:47:32
End at: 2019-01-21 03:48:02
Local clock offset: 10.479 ms
Remote clock offset: 12.126 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.09 Mbit/s
95th percentile per-packet one-way delay: 110.037 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.09 Mbit/s
95th percentile per-packet one-way delay: 110.037 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link

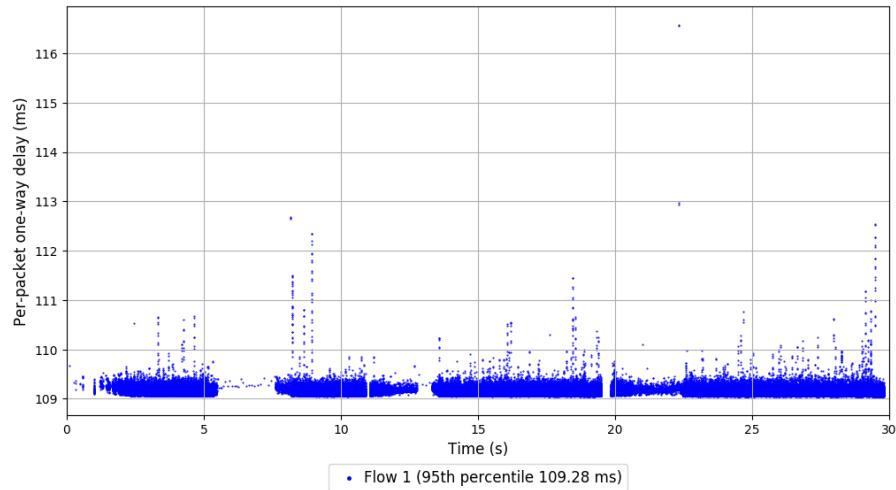
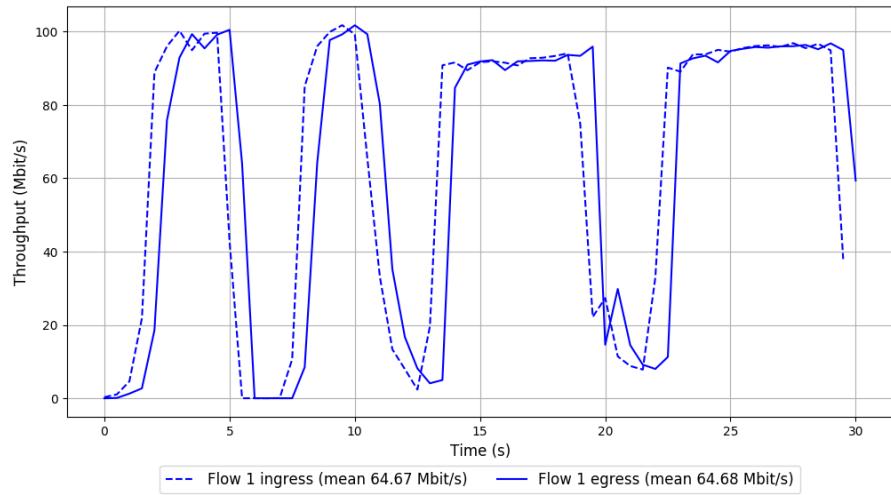


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-21 04:19:30
End at: 2019-01-21 04:20:00
Local clock offset: 18.267 ms
Remote clock offset: 19.478 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.68 Mbit/s
95th percentile per-packet one-way delay: 109.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.68 Mbit/s
95th percentile per-packet one-way delay: 109.284 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

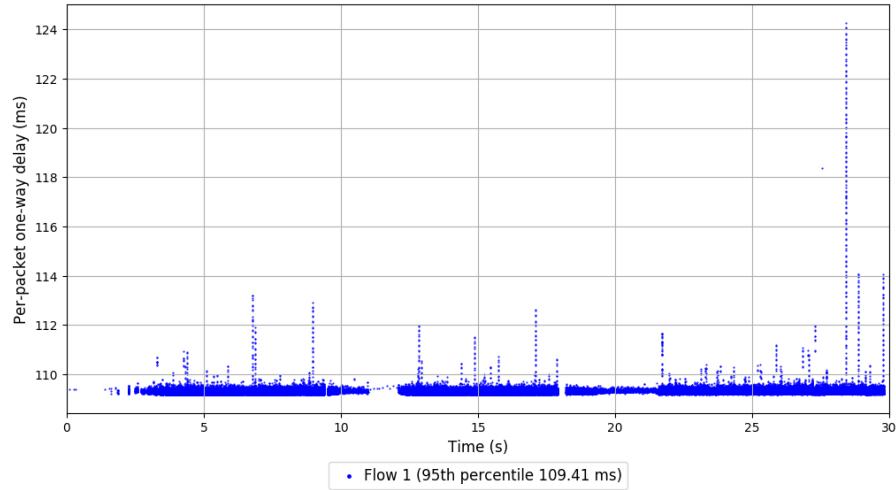
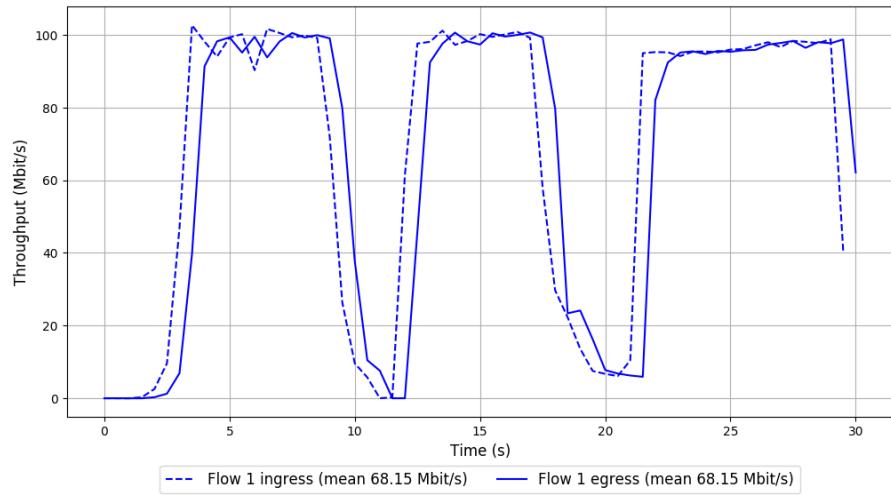


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-21 04:51:32
End at: 2019-01-21 04:52:02
Local clock offset: 16.175 ms
Remote clock offset: 17.071 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.15 Mbit/s
95th percentile per-packet one-way delay: 109.406 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.15 Mbit/s
95th percentile per-packet one-way delay: 109.406 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

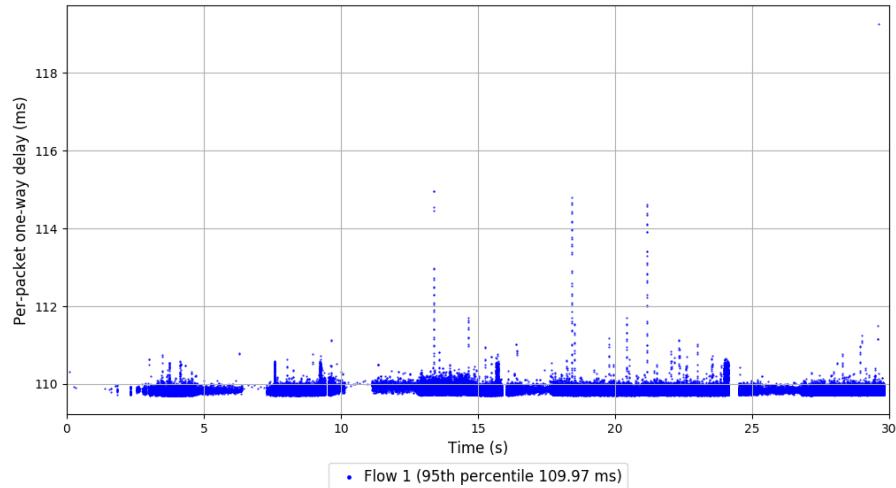
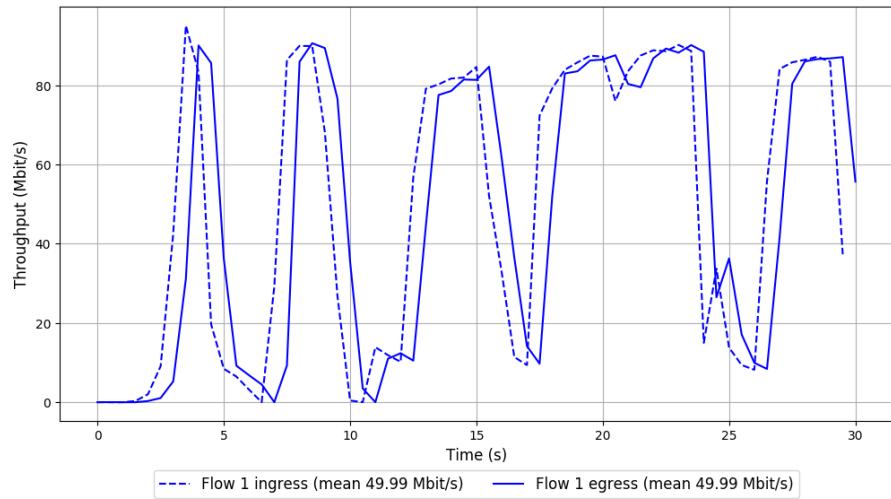


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-21 05:23:25
End at: 2019-01-21 05:23:55
Local clock offset: 8.61 ms
Remote clock offset: 9.901 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.99 Mbit/s
95th percentile per-packet one-way delay: 109.965 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.99 Mbit/s
95th percentile per-packet one-way delay: 109.965 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

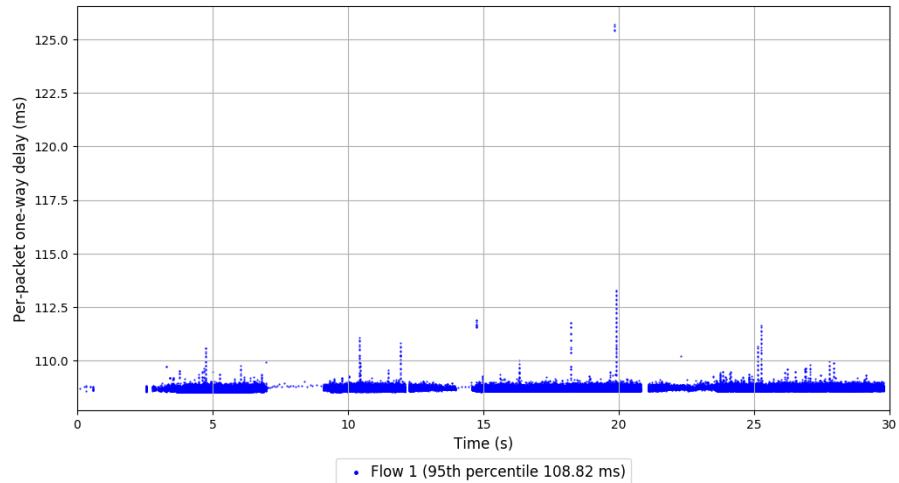
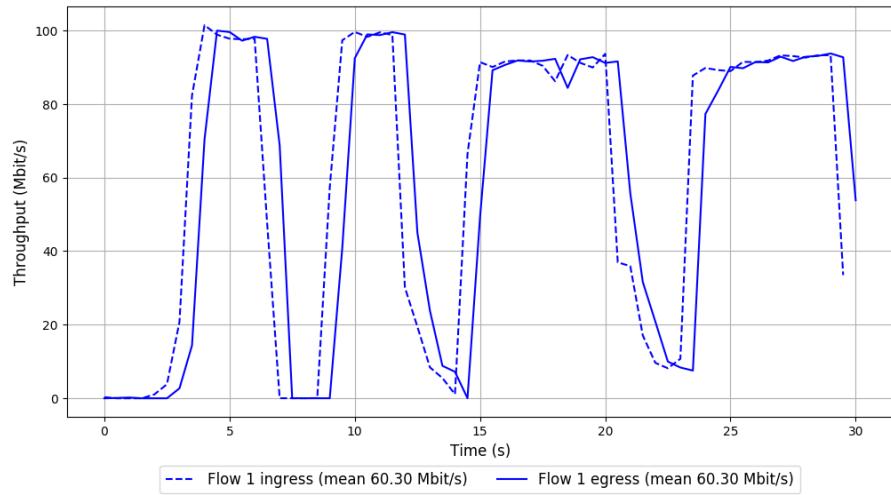


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-21 05:55:08
End at: 2019-01-21 05:55:38
Local clock offset: 6.372 ms
Remote clock offset: 5.682 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.30 Mbit/s
95th percentile per-packet one-way delay: 108.818 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.30 Mbit/s
95th percentile per-packet one-way delay: 108.818 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

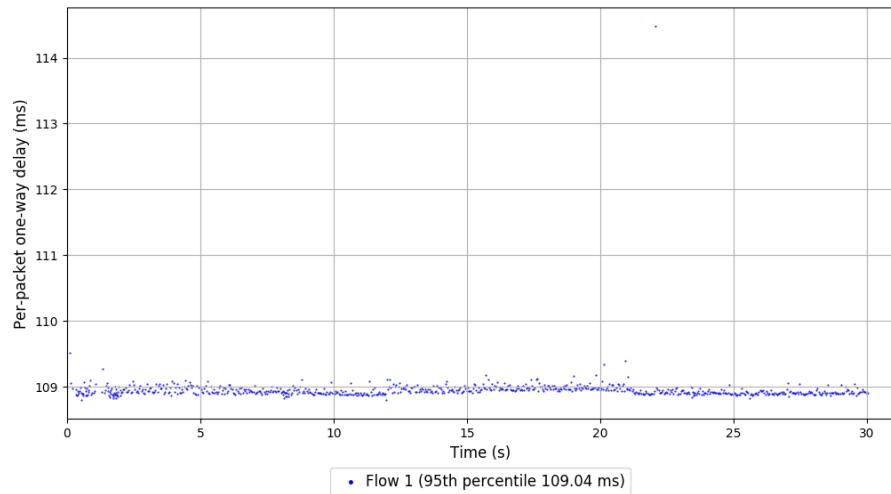
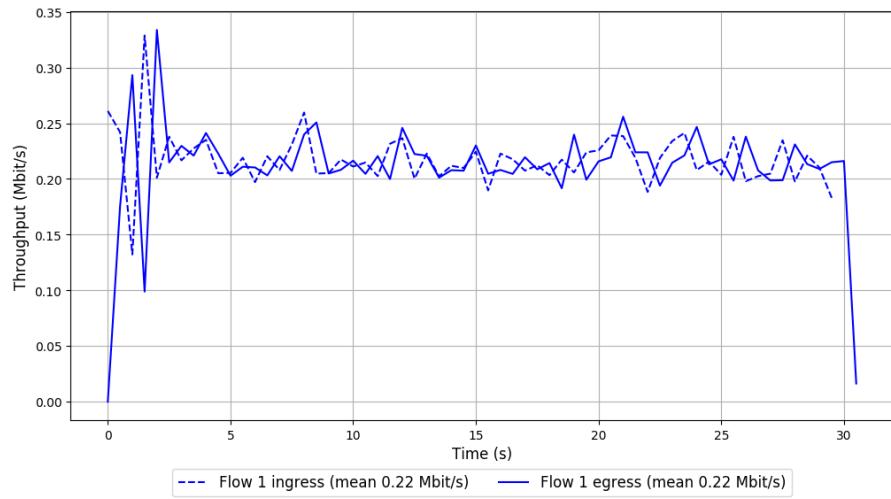


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-01-21 03:46:22
End at: 2019-01-21 03:46:52
Local clock offset: 9.858 ms
Remote clock offset: 10.291 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.044 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

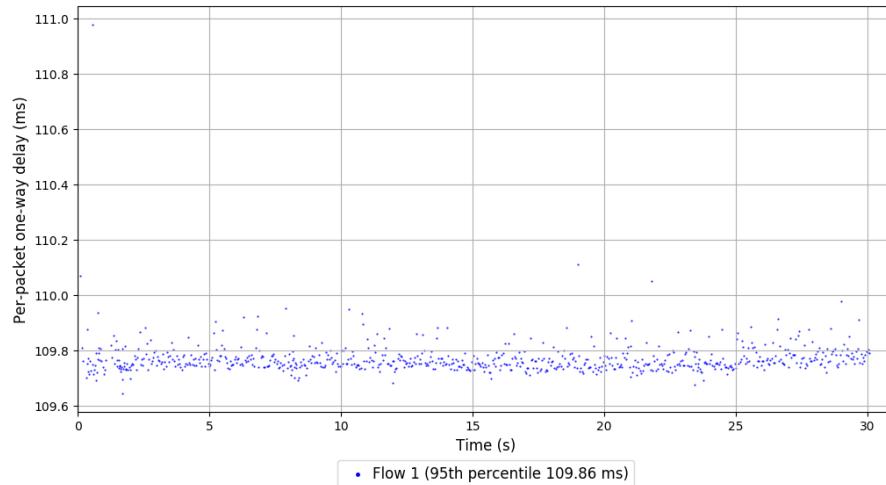
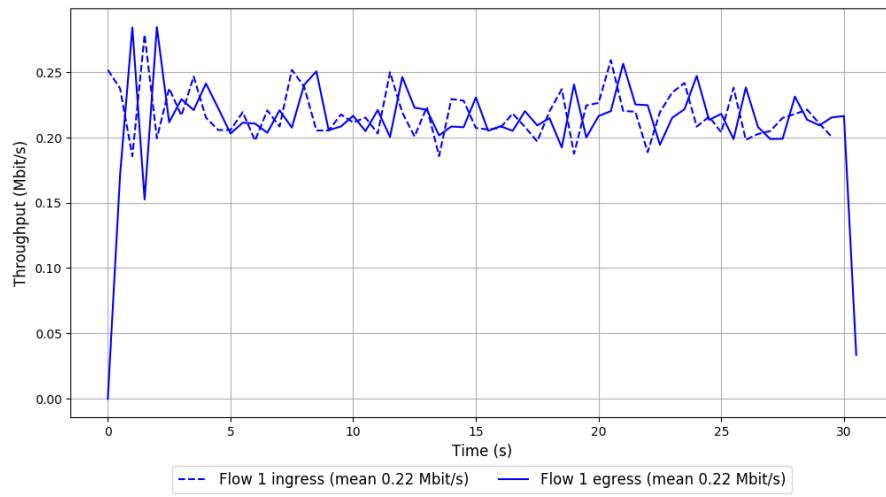


Run 2: Statistics of SCReAM

```
Start at: 2019-01-21 04:18:20
End at: 2019-01-21 04:18:50
Local clock offset: 17.387 ms
Remote clock offset: 19.065 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.860 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.860 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

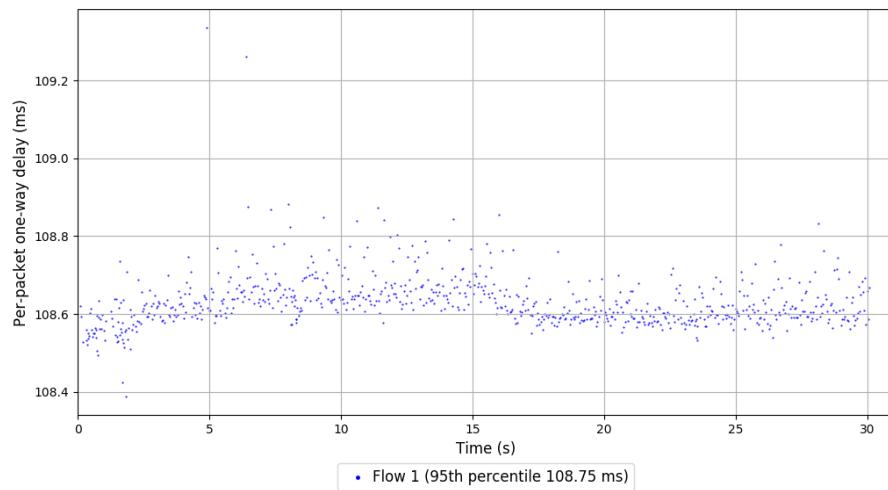
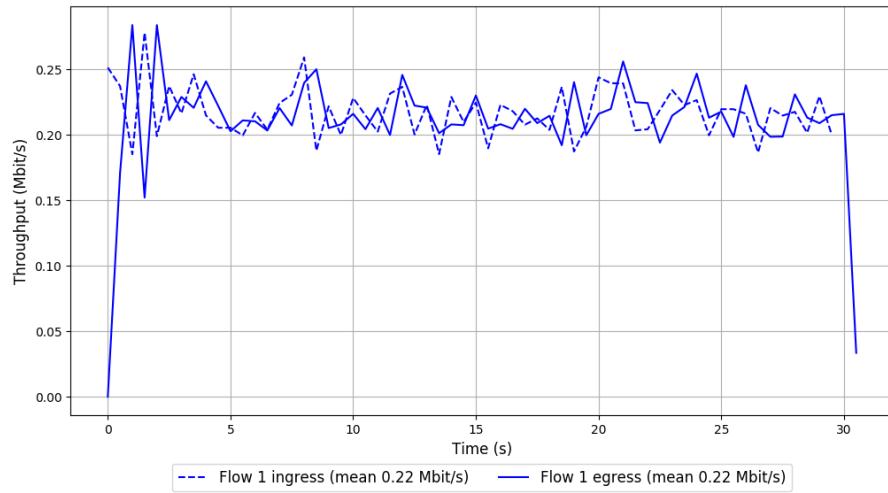


Run 3: Statistics of SCReAM

```
Start at: 2019-01-21 04:50:23
End at: 2019-01-21 04:50:53
Local clock offset: 17.505 ms
Remote clock offset: 17.709 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.746 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.746 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

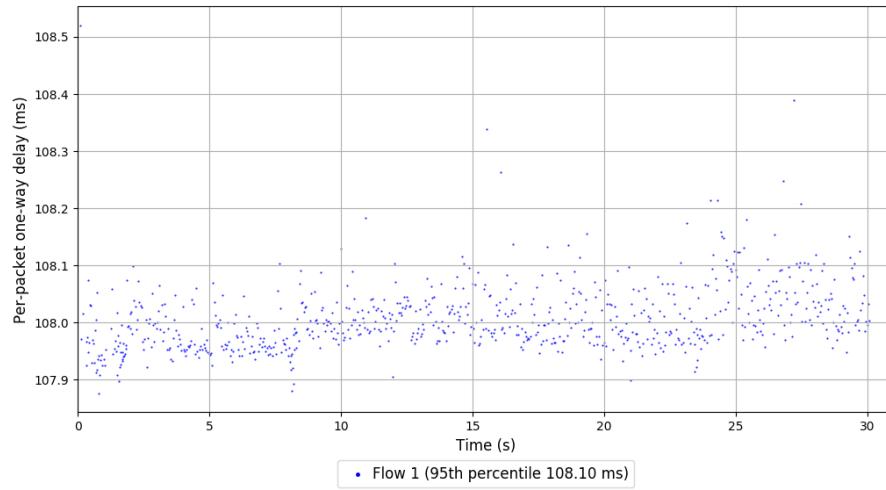
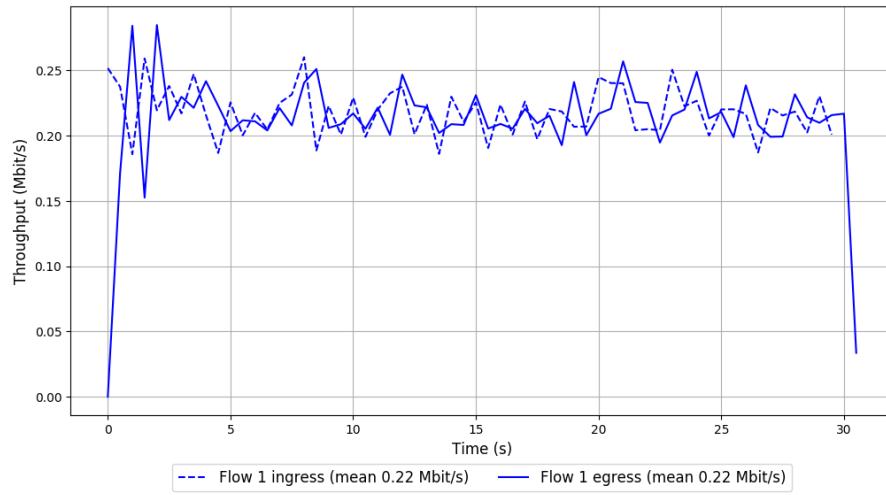


Run 4: Statistics of SCReAM

```
Start at: 2019-01-21 05:22:15
End at: 2019-01-21 05:22:45
Local clock offset: 10.531 ms
Remote clock offset: 10.812 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.103 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

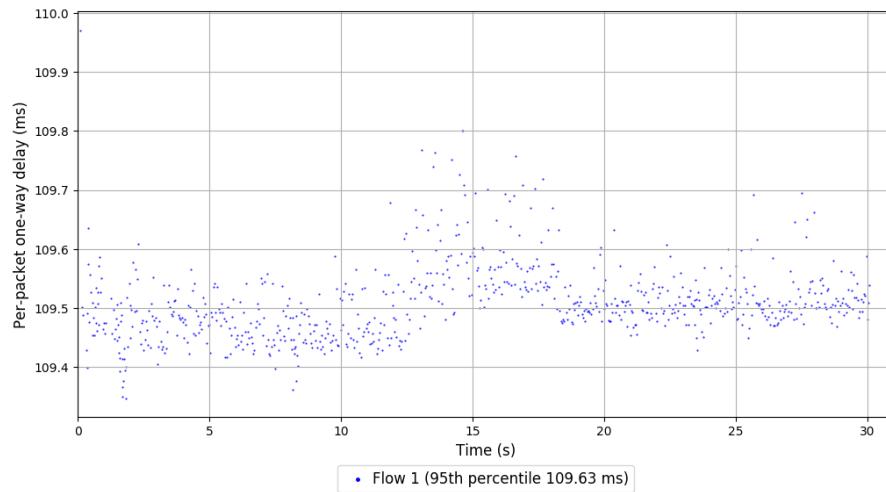
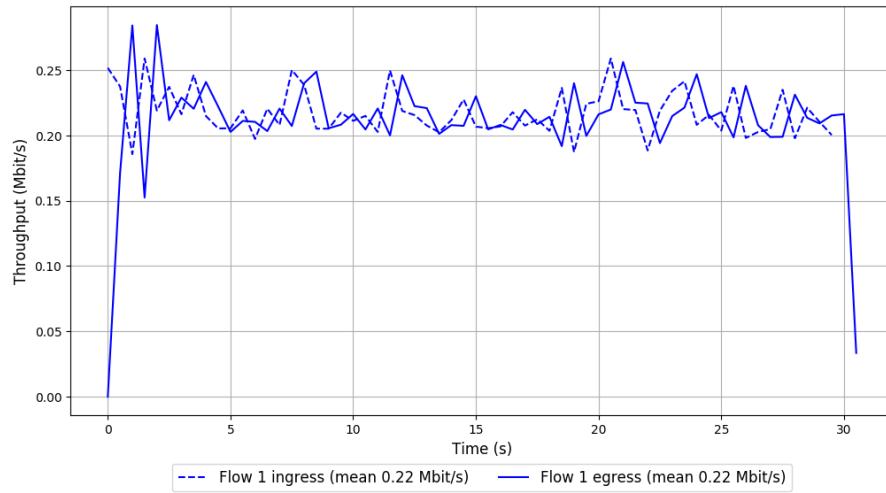


Run 5: Statistics of SCReAM

```
Start at: 2019-01-21 05:53:59
End at: 2019-01-21 05:54:29
Local clock offset: 5.808 ms
Remote clock offset: 5.962 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.632 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.632 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

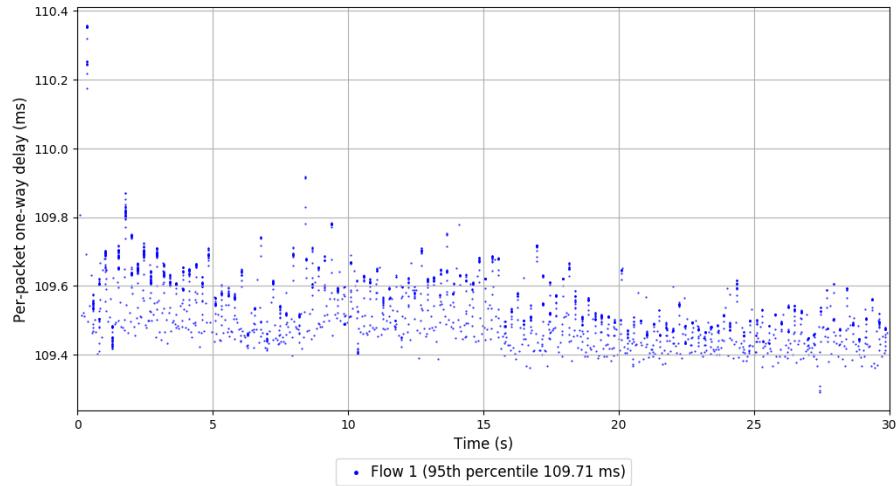
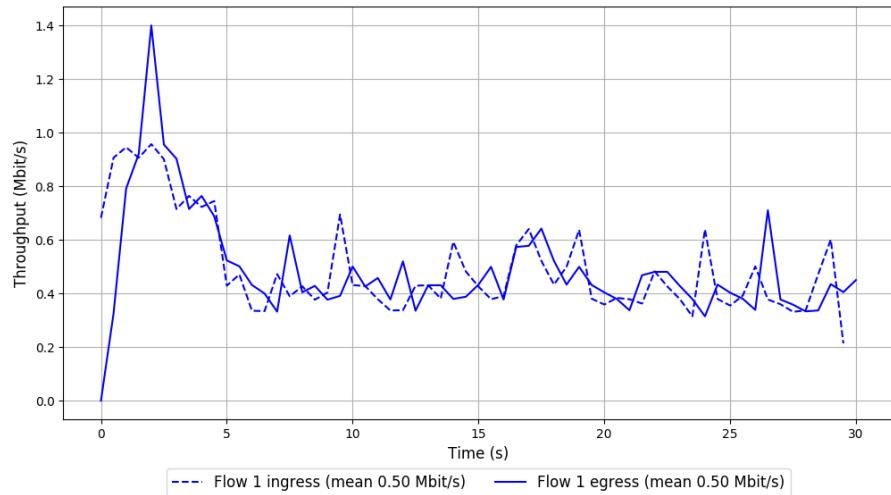


Run 1: Statistics of Sprout

```
Start at: 2019-01-21 03:40:08
End at: 2019-01-21 03:40:38
Local clock offset: 6.201 ms
Remote clock offset: 7.817 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 109.711 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 109.711 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

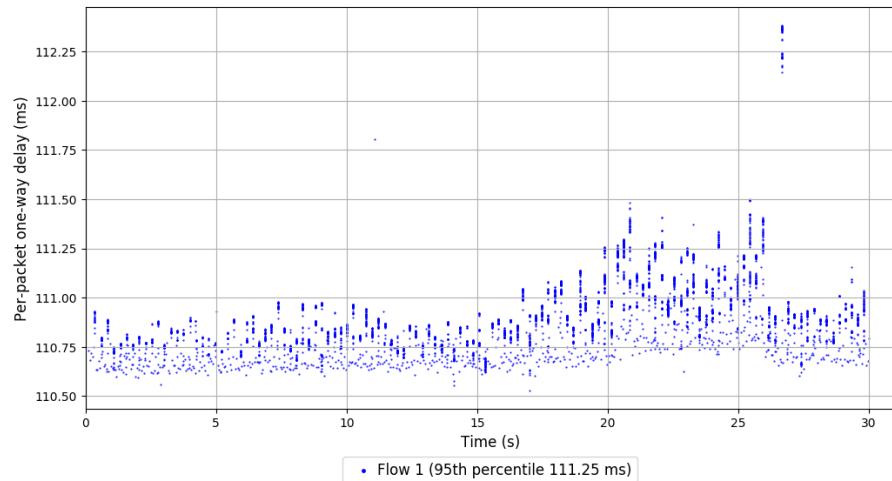
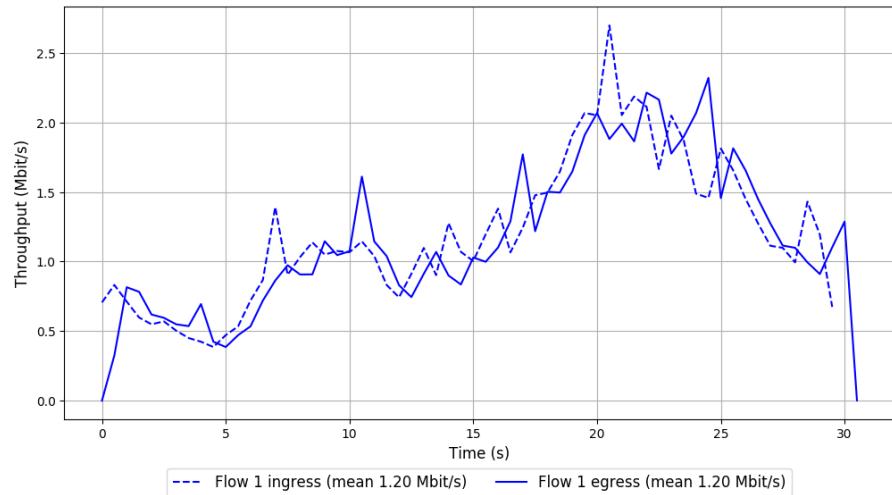


Run 2: Statistics of Sprout

```
Start at: 2019-01-21 04:11:48
End at: 2019-01-21 04:12:18
Local clock offset: 17.343 ms
Remote clock offset: 19.943 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 111.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 111.245 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

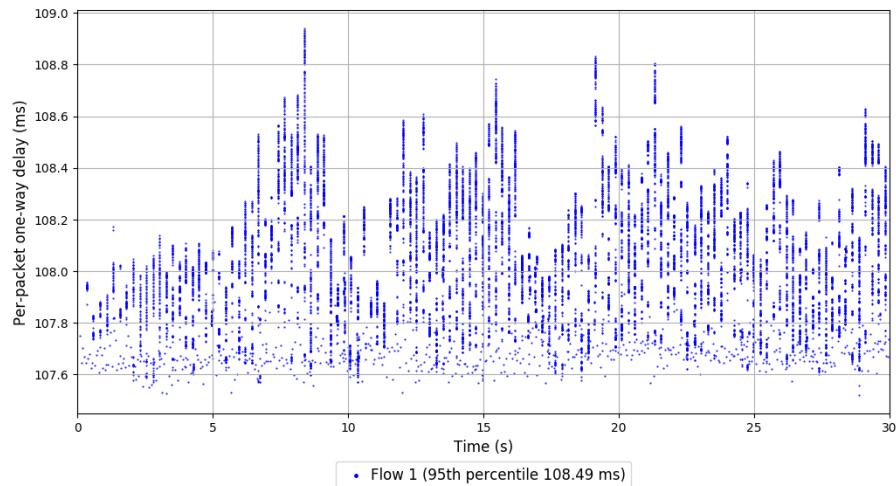
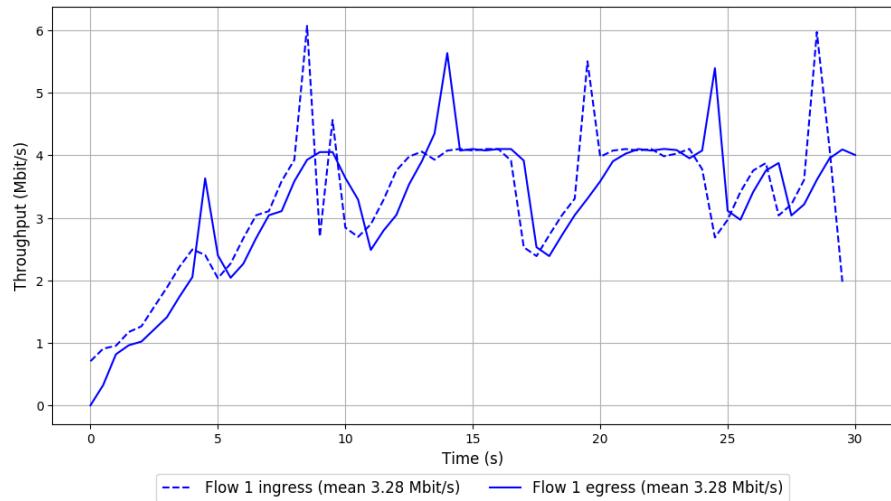


Run 3: Statistics of Sprout

```
Start at: 2019-01-21 04:44:08
End at: 2019-01-21 04:44:38
Local clock offset: 29.484 ms
Remote clock offset: 29.454 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 108.493 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 108.493 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

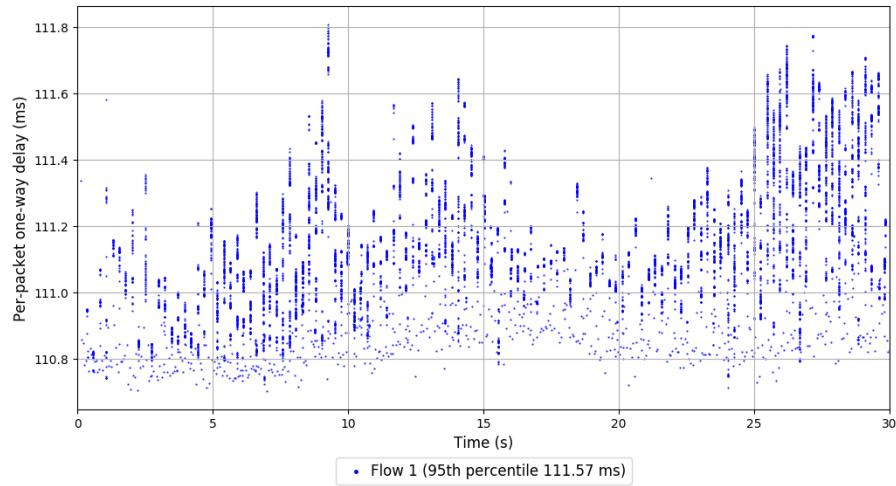
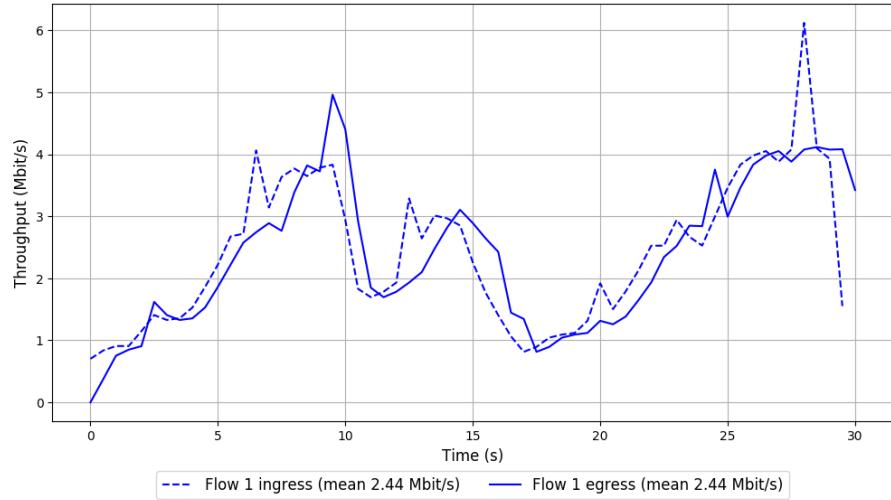


Run 4: Statistics of Sprout

```
Start at: 2019-01-21 05:15:57
End at: 2019-01-21 05:16:27
Local clock offset: 16.592 ms
Remote clock offset: 18.987 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 111.567 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 111.567 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

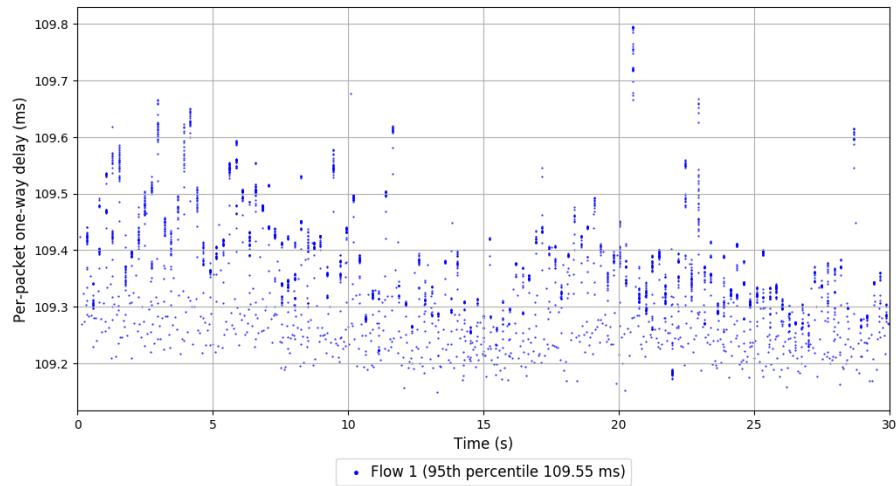
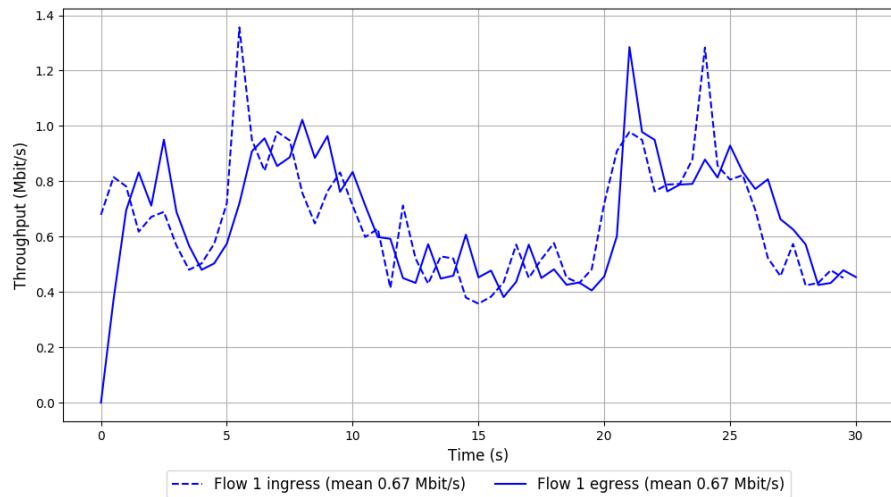


Run 5: Statistics of Sprout

```
Start at: 2019-01-21 05:47:55
End at: 2019-01-21 05:48:25
Local clock offset: 7.52 ms
Remote clock offset: 9.109 ms

# Below is generated by plot.py at 2019-01-21 08:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 109.553 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 109.553 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

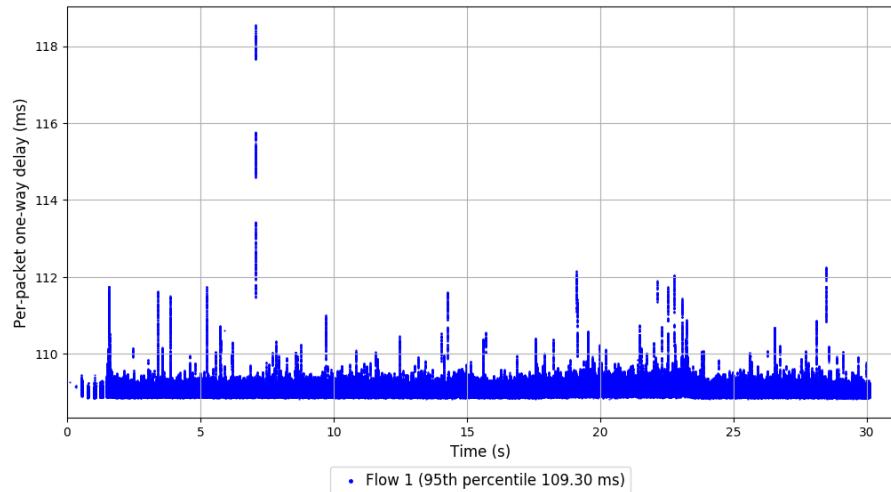
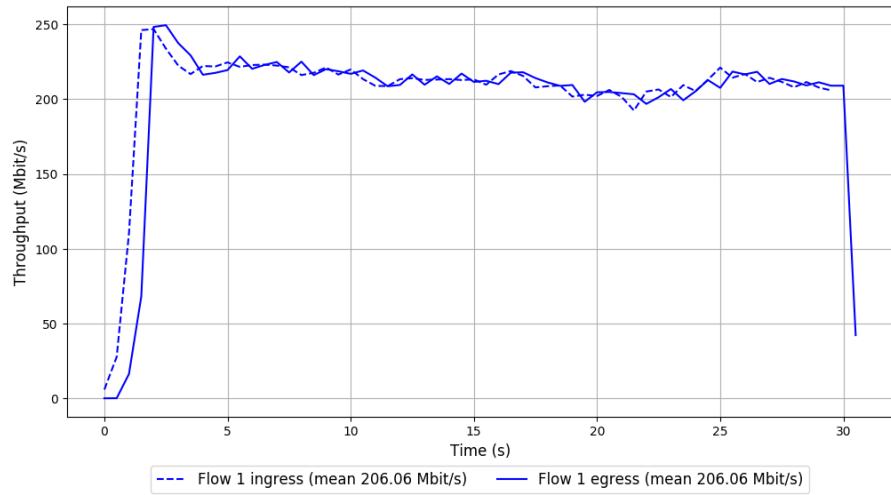


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-21 03:54:56
End at: 2019-01-21 03:55:26
Local clock offset: 12.107 ms
Remote clock offset: 12.577 ms

# Below is generated by plot.py at 2019-01-21 08:25:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.06 Mbit/s
95th percentile per-packet one-way delay: 109.299 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 206.06 Mbit/s
95th percentile per-packet one-way delay: 109.299 ms
Loss rate: 0.00%
```

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

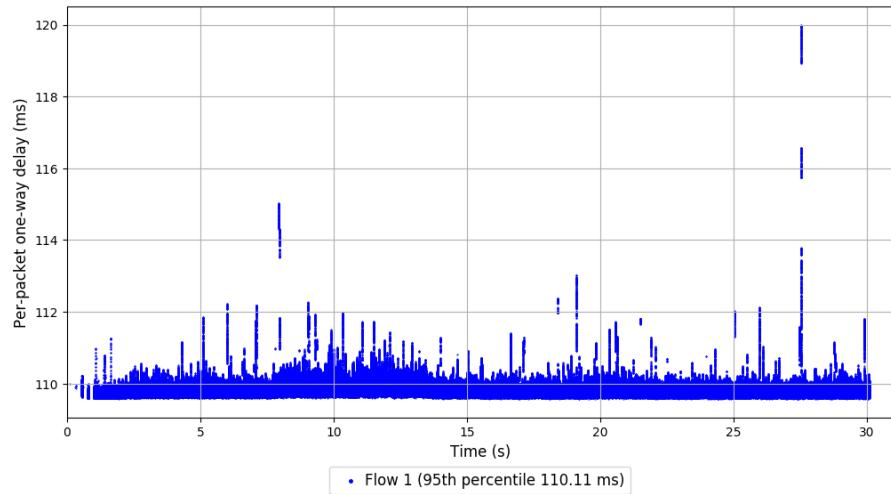
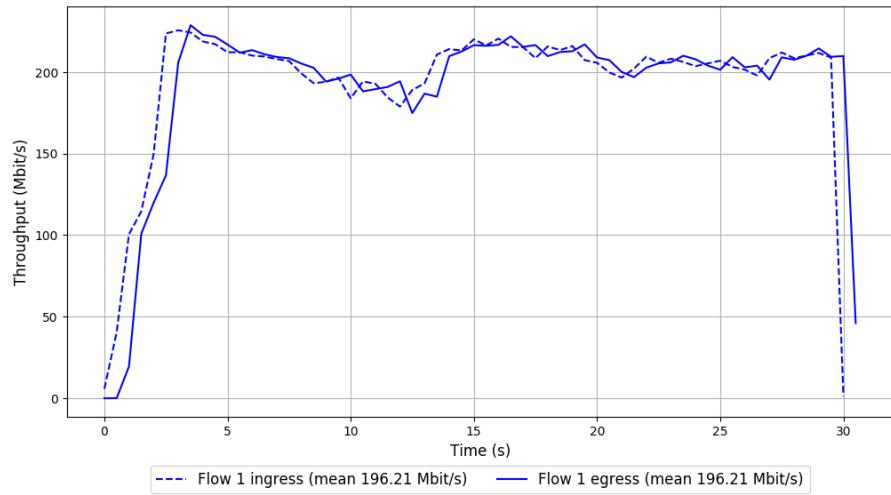


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-21 04:27:19
End at: 2019-01-21 04:27:49
Local clock offset: 22.469 ms
Remote clock offset: 24.522 ms

# Below is generated by plot.py at 2019-01-21 08:25:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.21 Mbit/s
95th percentile per-packet one-way delay: 110.105 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 196.21 Mbit/s
95th percentile per-packet one-way delay: 110.105 ms
Loss rate: 0.00%
```

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

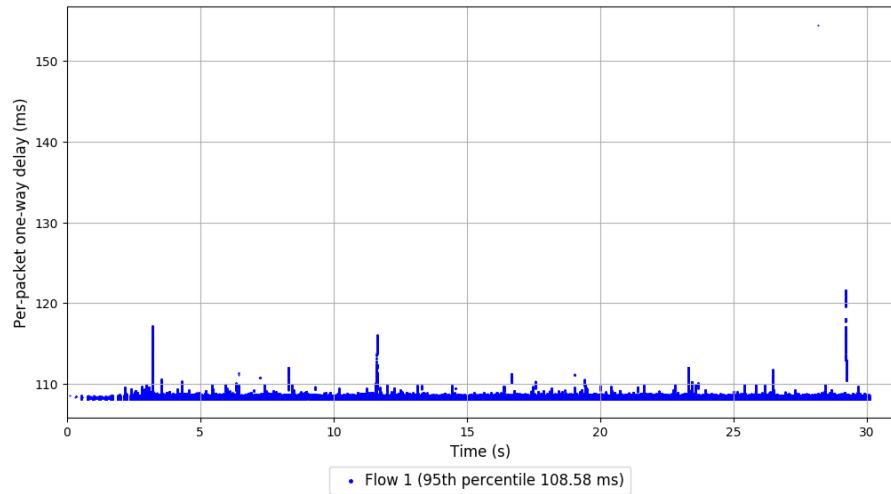
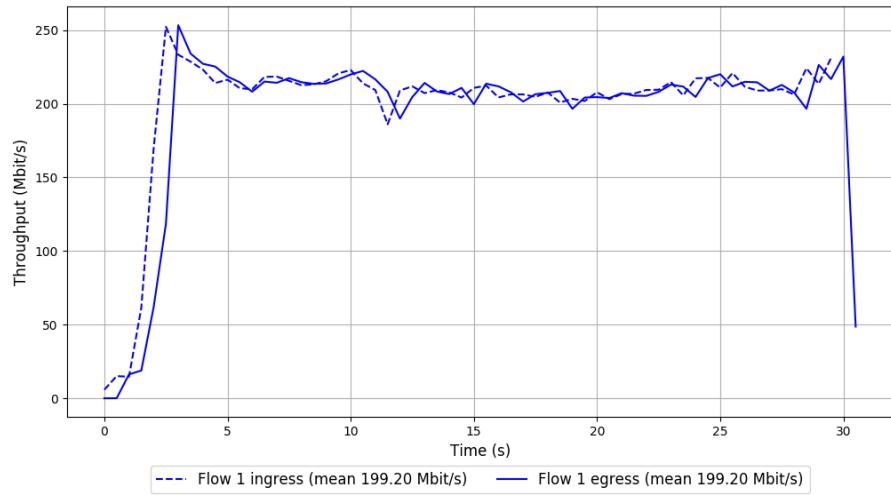


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-21 04:59:12
End at: 2019-01-21 04:59:42
Local clock offset: 13.358 ms
Remote clock offset: 14.318 ms

# Below is generated by plot.py at 2019-01-21 08:25:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.20 Mbit/s
95th percentile per-packet one-way delay: 108.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.20 Mbit/s
95th percentile per-packet one-way delay: 108.579 ms
Loss rate: 0.00%
```

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

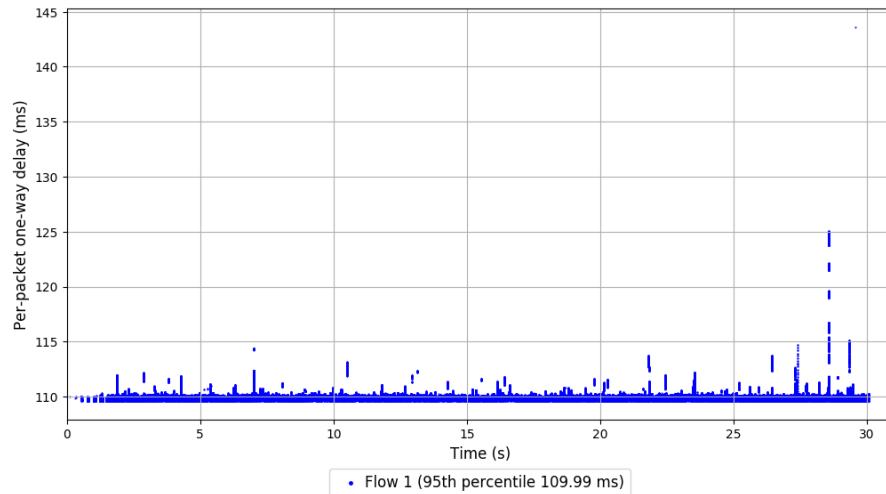
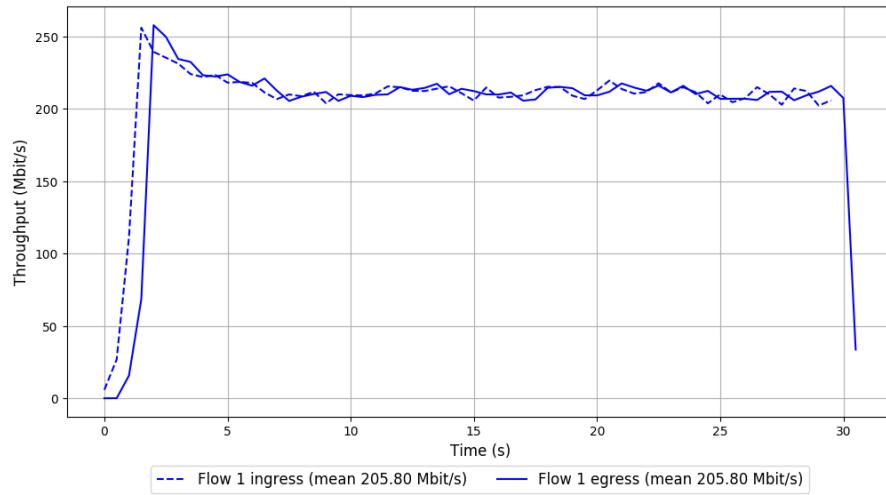


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-21 05:31:05
End at: 2019-01-21 05:31:35
Local clock offset: 6.182 ms
Remote clock offset: 7.295 ms

# Below is generated by plot.py at 2019-01-21 08:25:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.80 Mbit/s
95th percentile per-packet one-way delay: 109.994 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.80 Mbit/s
95th percentile per-packet one-way delay: 109.994 ms
Loss rate: 0.00%
```

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

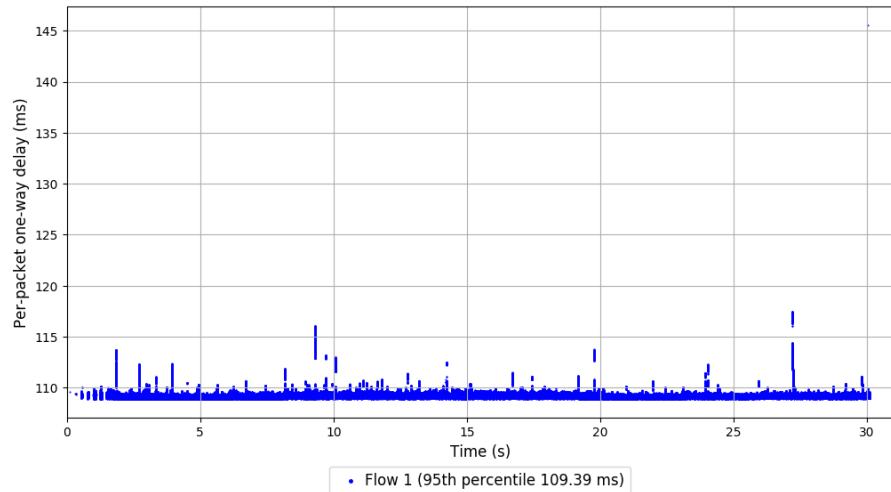
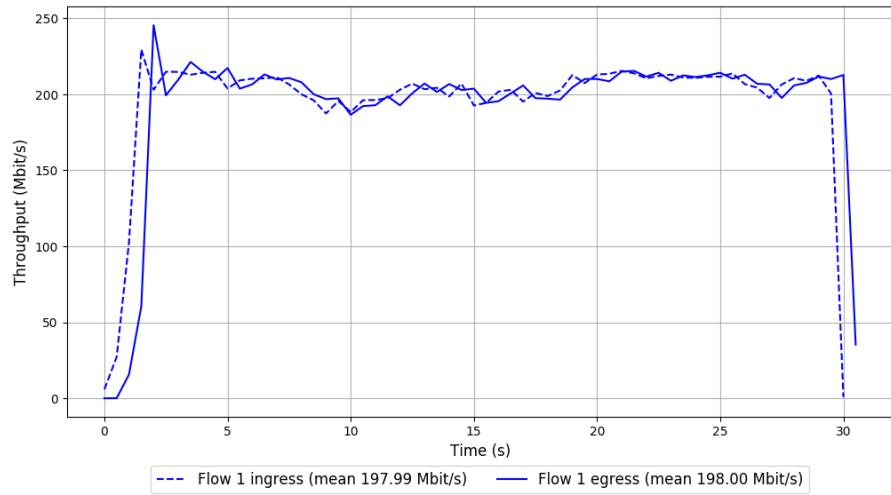


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-21 06:02:55
End at: 2019-01-21 06:03:25
Local clock offset: 3.408 ms
Remote clock offset: 2.736 ms

# Below is generated by plot.py at 2019-01-21 08:25:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.00 Mbit/s
95th percentile per-packet one-way delay: 109.394 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.00 Mbit/s
95th percentile per-packet one-way delay: 109.394 ms
Loss rate: 0.00%
```

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

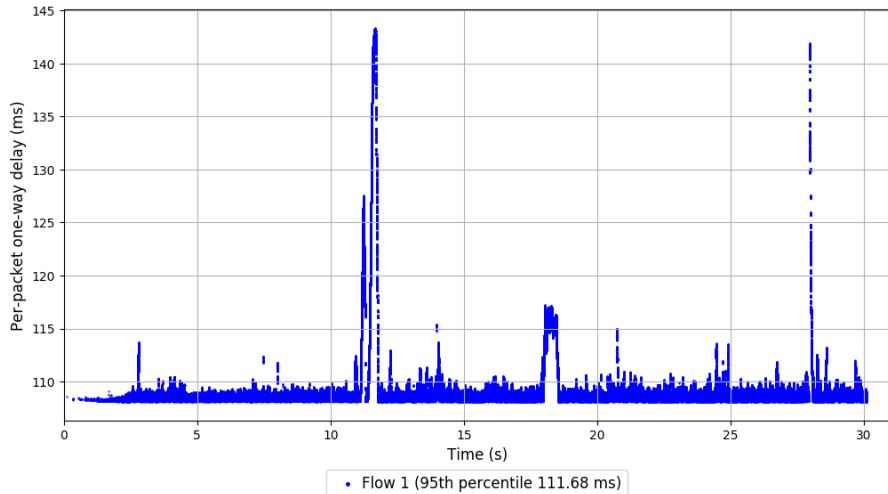
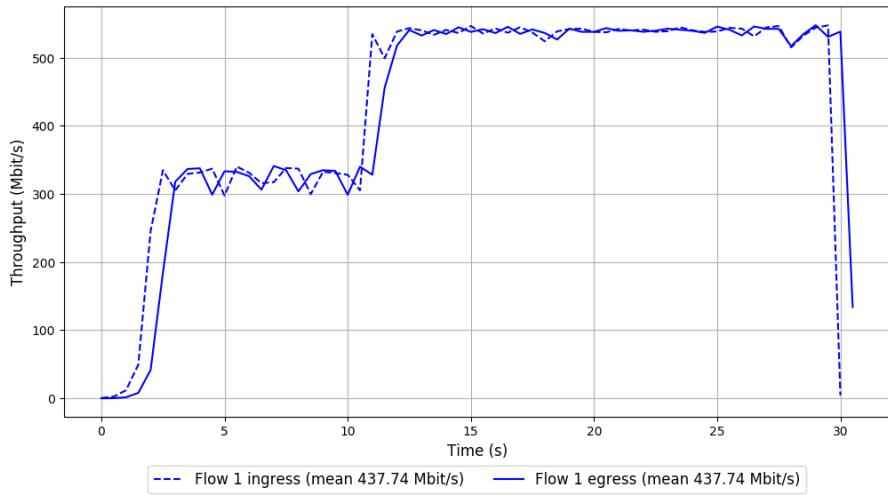


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-21 03:57:38
End at: 2019-01-21 03:58:08
Local clock offset: 13.965 ms
Remote clock offset: 13.942 ms

# Below is generated by plot.py at 2019-01-21 08:27:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 437.74 Mbit/s
95th percentile per-packet one-way delay: 111.681 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 437.74 Mbit/s
95th percentile per-packet one-way delay: 111.681 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

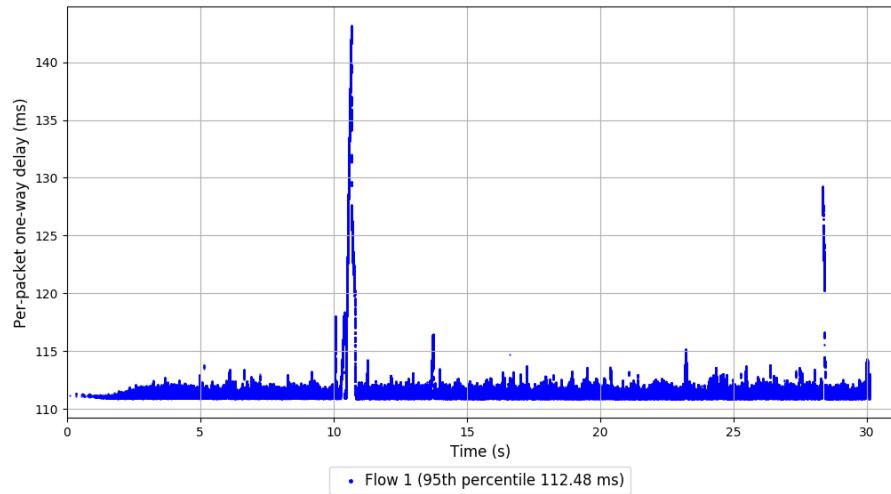
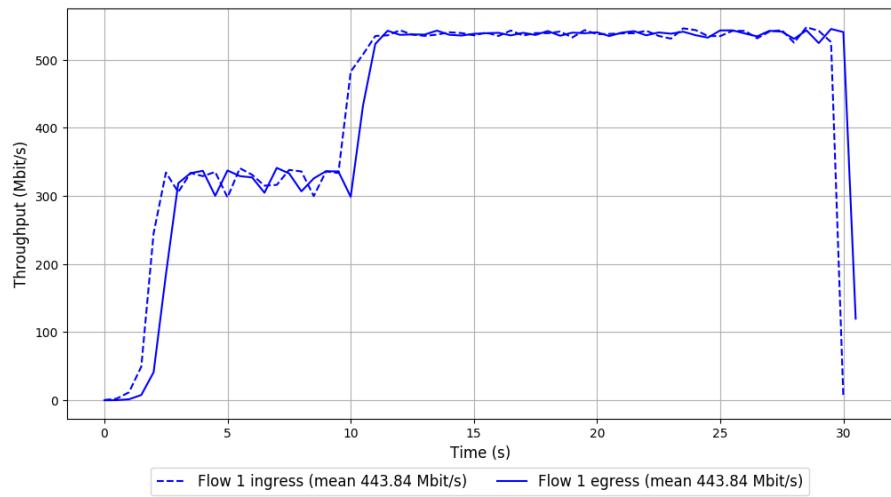


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-21 04:29:59
End at: 2019-01-21 04:30:29
Local clock offset: 23.403 ms
Remote clock offset: 26.708 ms

# Below is generated by plot.py at 2019-01-21 08:32:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 443.84 Mbit/s
95th percentile per-packet one-way delay: 112.481 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 443.84 Mbit/s
95th percentile per-packet one-way delay: 112.481 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

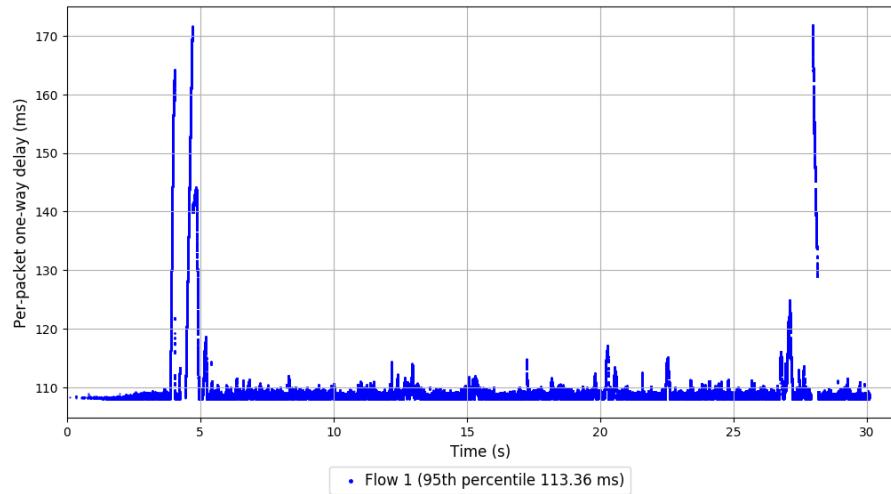
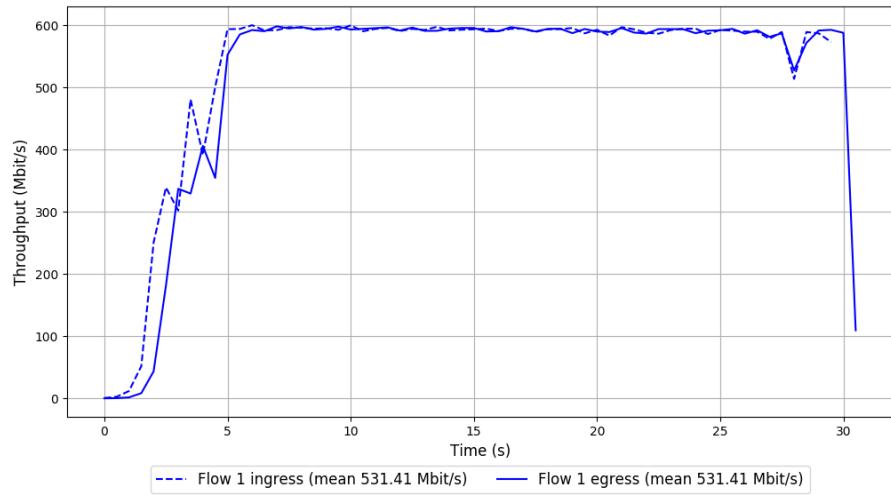


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-21 05:01:53
End at: 2019-01-21 05:02:23
Local clock offset: 14.667 ms
Remote clock offset: 14.526 ms

# Below is generated by plot.py at 2019-01-21 08:36:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 531.41 Mbit/s
95th percentile per-packet one-way delay: 113.363 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 531.41 Mbit/s
95th percentile per-packet one-way delay: 113.363 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

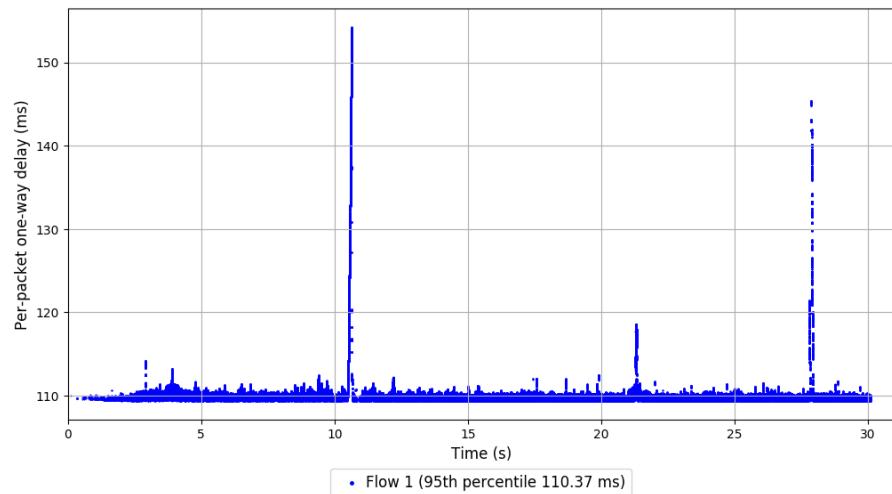
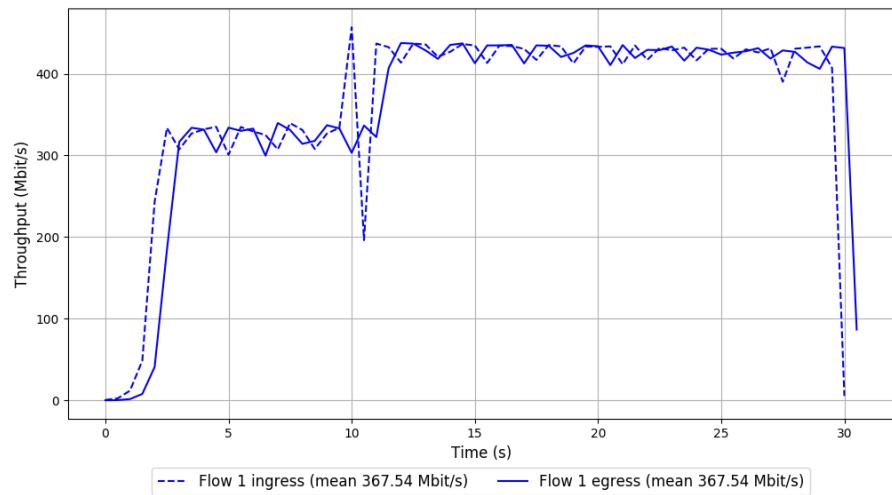


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-21 05:33:48
End at: 2019-01-21 05:34:18
Local clock offset: 6.321 ms
Remote clock offset: 7.068 ms

# Below is generated by plot.py at 2019-01-21 08:36:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 367.54 Mbit/s
95th percentile per-packet one-way delay: 110.369 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 367.54 Mbit/s
95th percentile per-packet one-way delay: 110.369 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

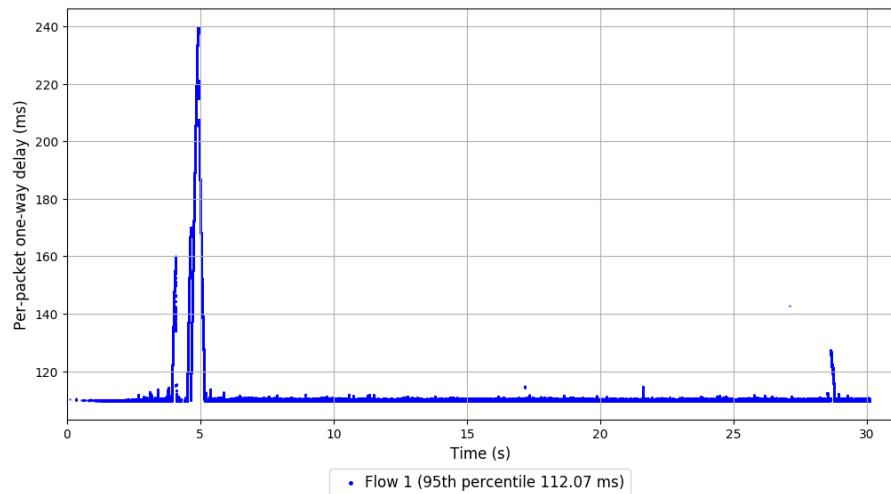
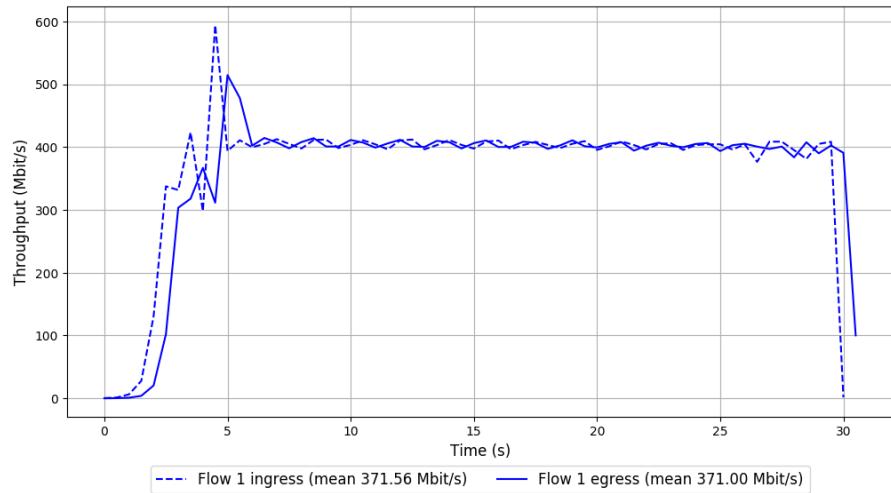


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-21 06:05:37
End at: 2019-01-21 06:06:07
Local clock offset: 1.8 ms
Remote clock offset: 2.411 ms

# Below is generated by plot.py at 2019-01-21 08:36:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 371.00 Mbit/s
95th percentile per-packet one-way delay: 112.066 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 371.00 Mbit/s
95th percentile per-packet one-way delay: 112.066 ms
Loss rate: 0.15%
```

Run 5: Report of TCP Vegas — Data Link

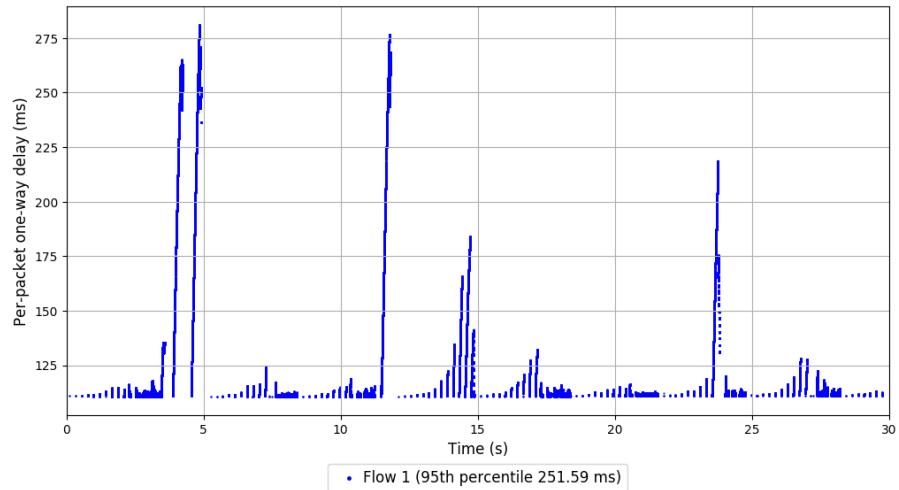
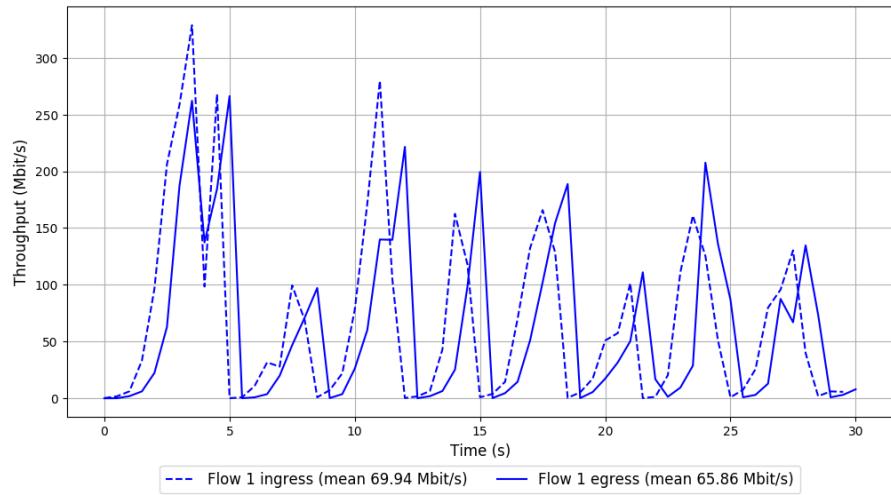


Run 1: Statistics of Verus

```
Start at: 2019-01-21 03:37:02
End at: 2019-01-21 03:37:32
Local clock offset: 4.223 ms
Remote clock offset: 6.069 ms

# Below is generated by plot.py at 2019-01-21 08:36:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.86 Mbit/s
95th percentile per-packet one-way delay: 251.587 ms
Loss rate: 5.83%
-- Flow 1:
Average throughput: 65.86 Mbit/s
95th percentile per-packet one-way delay: 251.587 ms
Loss rate: 5.83%
```

Run 1: Report of Verus — Data Link

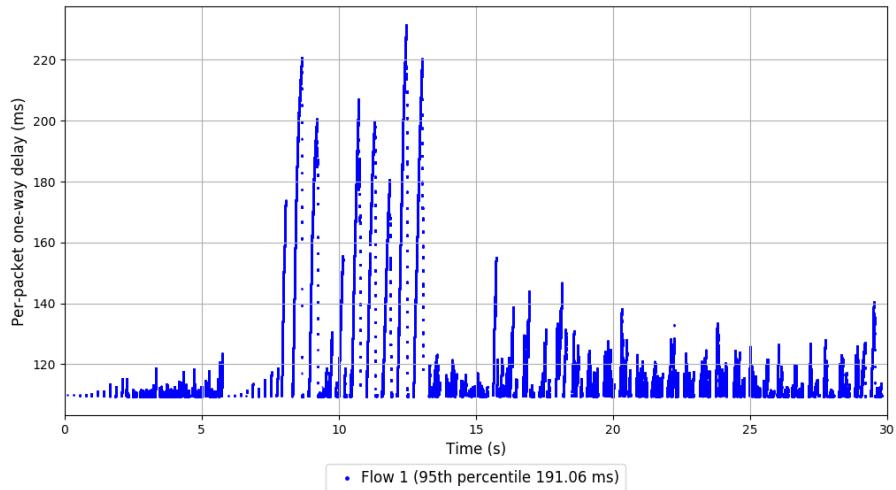
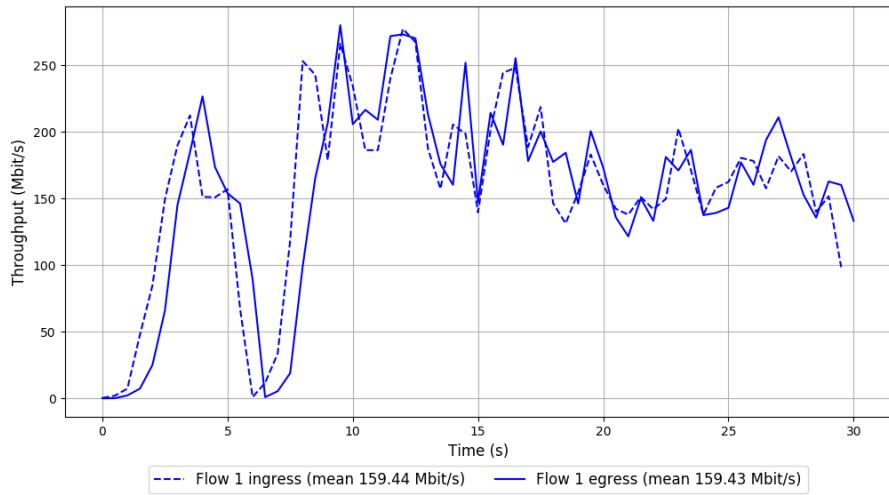


Run 2: Statistics of Verus

```
Start at: 2019-01-21 04:08:31
End at: 2019-01-21 04:09:01
Local clock offset: 21.489 ms
Remote clock offset: 23.9 ms

# Below is generated by plot.py at 2019-01-21 08:36:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.43 Mbit/s
95th percentile per-packet one-way delay: 191.061 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 159.43 Mbit/s
95th percentile per-packet one-way delay: 191.061 ms
Loss rate: 0.01%
```

Run 2: Report of Verus — Data Link

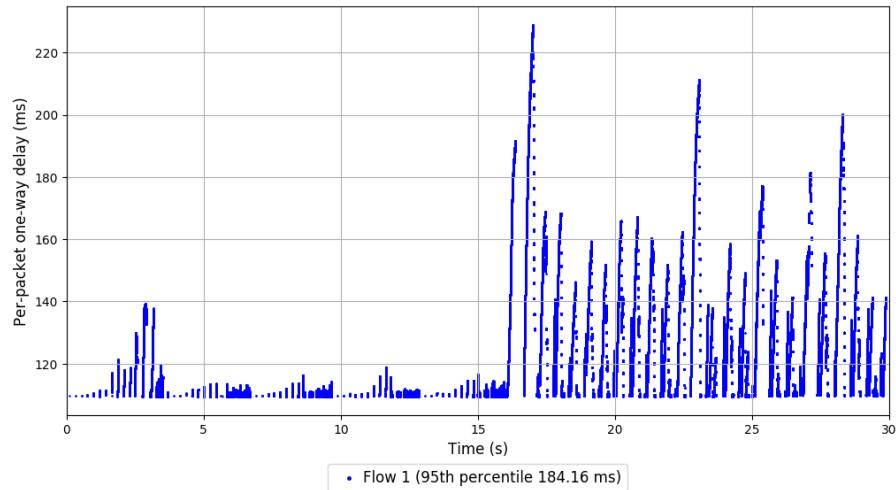
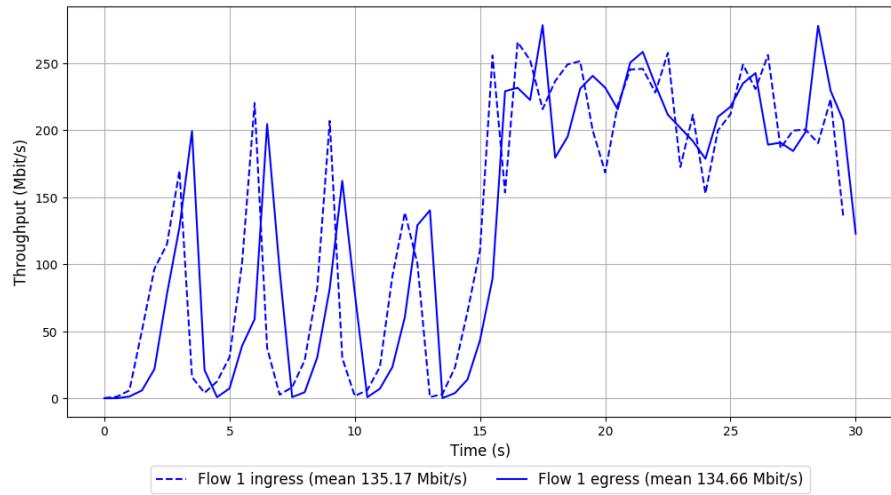


Run 3: Statistics of Verus

```
Start at: 2019-01-21 04:40:55
End at: 2019-01-21 04:41:25
Local clock offset: 34.705 ms
Remote clock offset: 37.359 ms

# Below is generated by plot.py at 2019-01-21 08:36:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.66 Mbit/s
95th percentile per-packet one-way delay: 184.164 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 134.66 Mbit/s
95th percentile per-packet one-way delay: 184.164 ms
Loss rate: 0.36%
```

Run 3: Report of Verus — Data Link

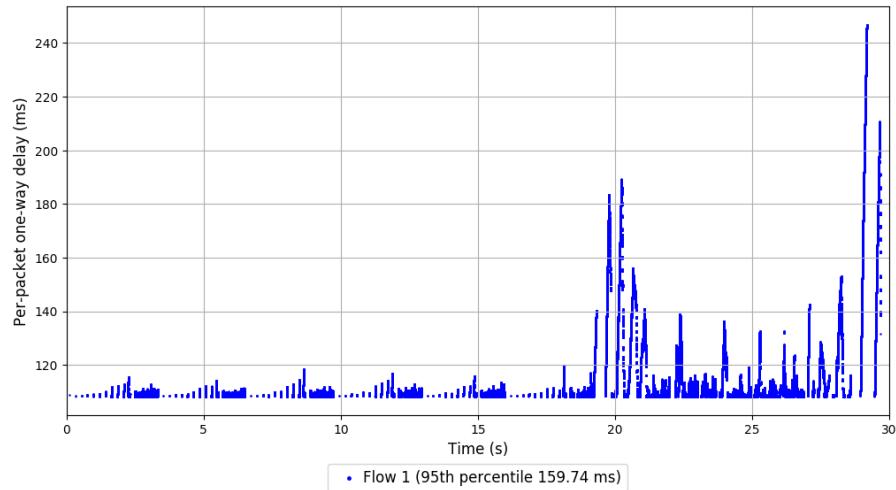
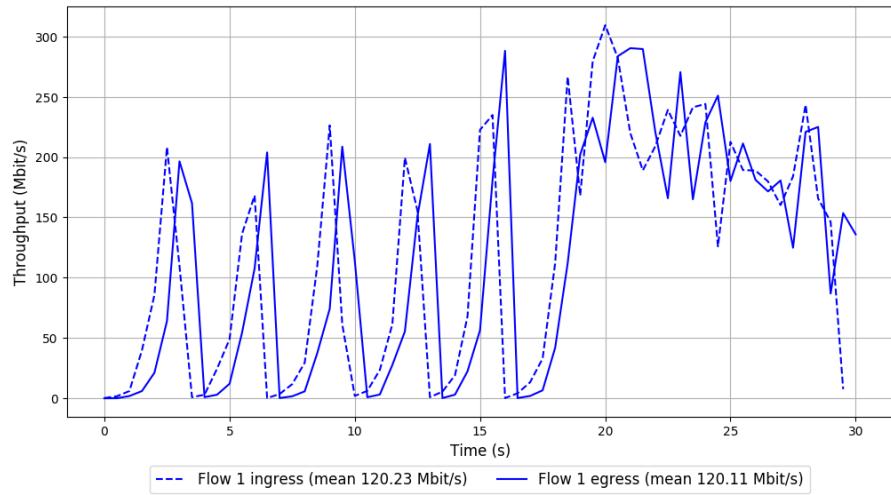


Run 4: Statistics of Verus

```
Start at: 2019-01-21 05:12:46
End at: 2019-01-21 05:13:16
Local clock offset: 16.249 ms
Remote clock offset: 17.49 ms

# Below is generated by plot.py at 2019-01-21 08:36:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 120.11 Mbit/s
95th percentile per-packet one-way delay: 159.741 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 120.11 Mbit/s
95th percentile per-packet one-way delay: 159.741 ms
Loss rate: 0.02%
```

Run 4: Report of Verus — Data Link

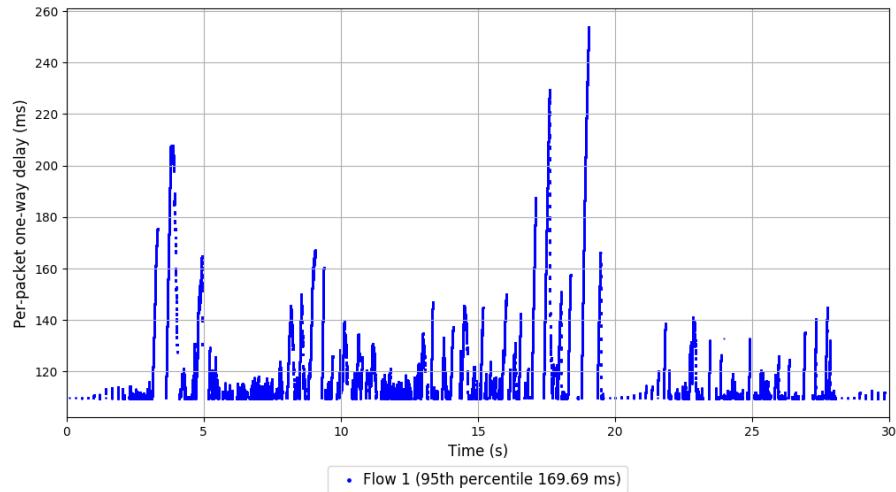
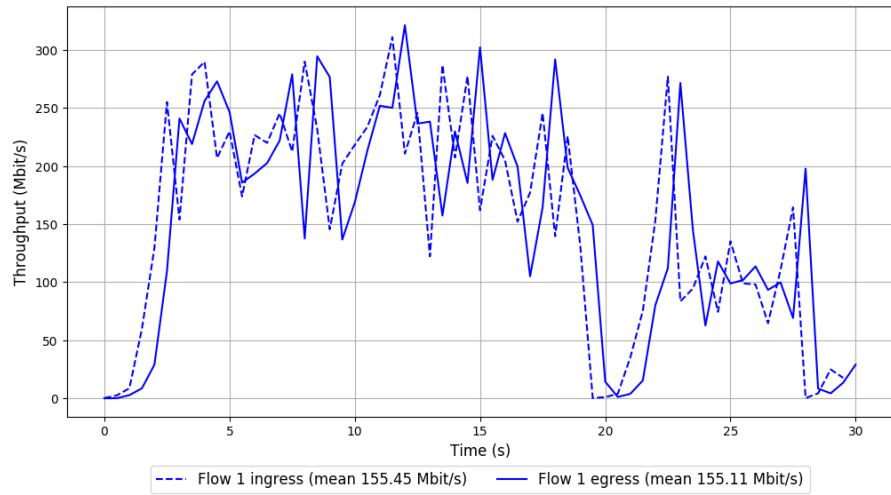


Run 5: Statistics of Verus

```
Start at: 2019-01-21 05:44:38
End at: 2019-01-21 05:45:09
Local clock offset: 7.691 ms
Remote clock offset: 8.399 ms

# Below is generated by plot.py at 2019-01-21 08:36:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.11 Mbit/s
95th percentile per-packet one-way delay: 169.694 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 155.11 Mbit/s
95th percentile per-packet one-way delay: 169.694 ms
Loss rate: 0.21%
```

Run 5: Report of Verus — Data Link

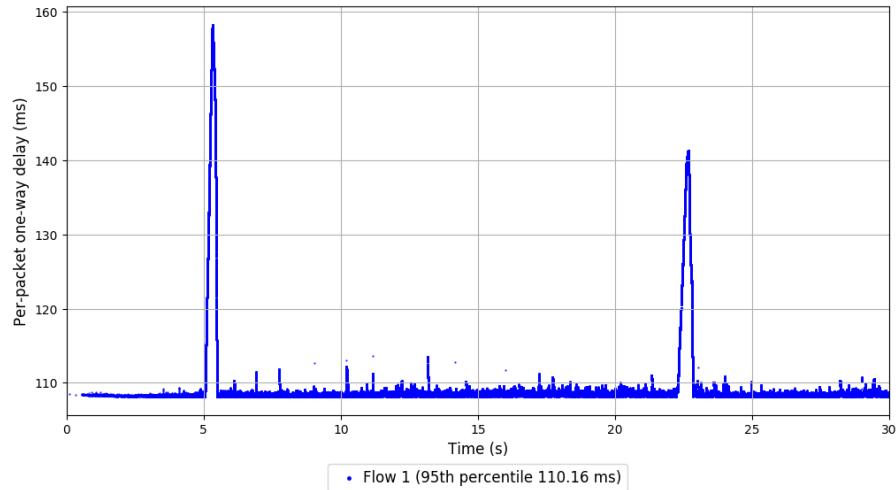
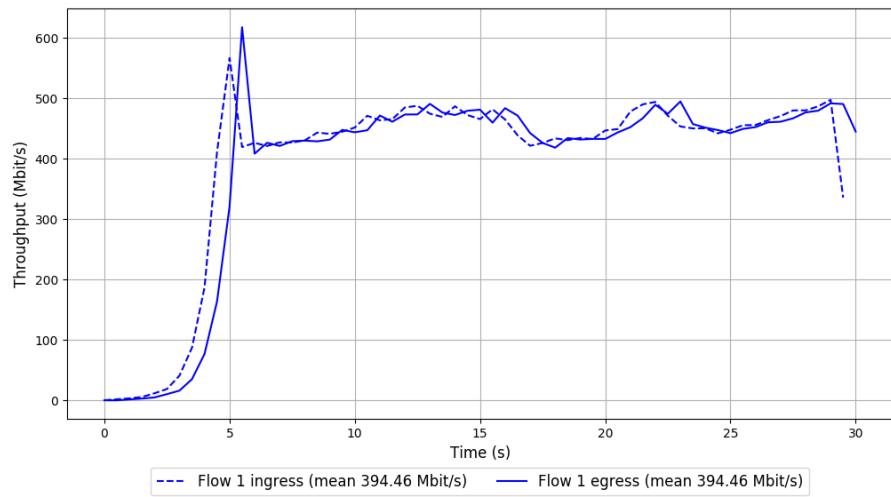


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-21 03:53:17
End at: 2019-01-21 03:53:47
Local clock offset: 12.89 ms
Remote clock offset: 12.877 ms

# Below is generated by plot.py at 2019-01-21 08:39:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 394.46 Mbit/s
95th percentile per-packet one-way delay: 110.155 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 394.46 Mbit/s
95th percentile per-packet one-way delay: 110.155 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

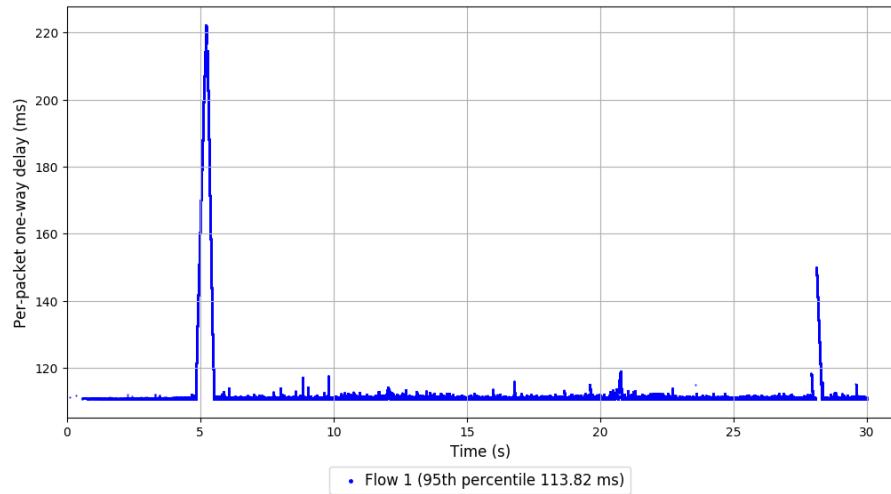
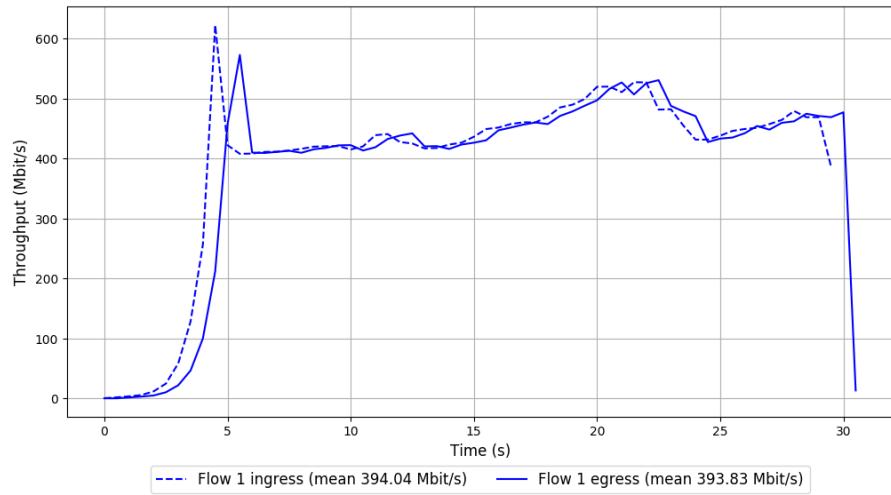


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-21 04:25:40
End at: 2019-01-21 04:26:10
Local clock offset: 20.16 ms
Remote clock offset: 23.144 ms

# Below is generated by plot.py at 2019-01-21 08:40:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 393.83 Mbit/s
95th percentile per-packet one-way delay: 113.823 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 393.83 Mbit/s
95th percentile per-packet one-way delay: 113.823 ms
Loss rate: 0.05%
```

Run 2: Report of PCC-Vivace — Data Link

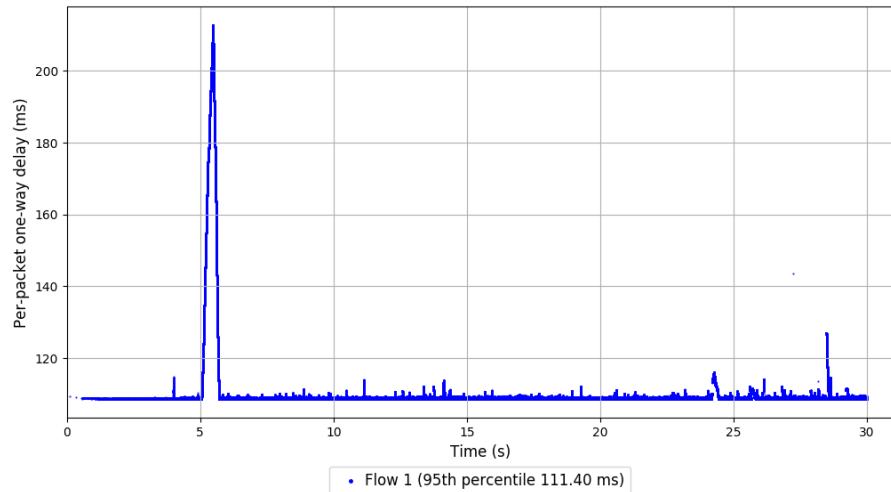
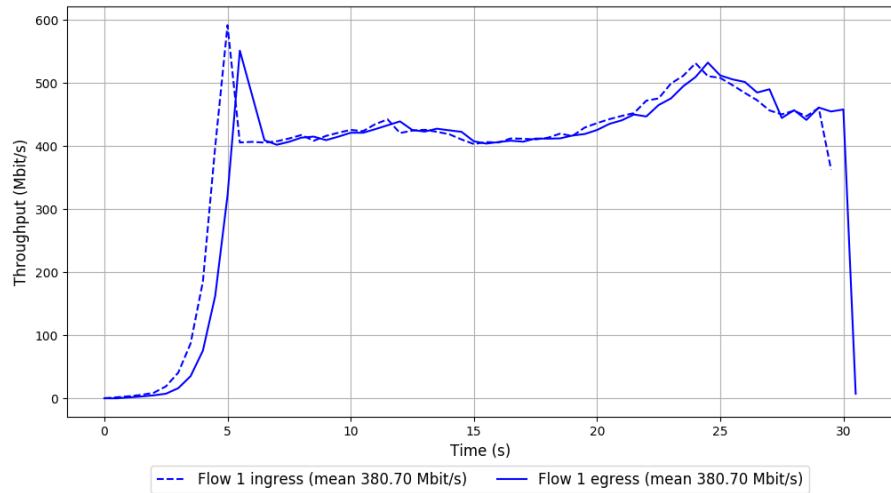


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-21 04:57:34
End at: 2019-01-21 04:58:04
Local clock offset: 13.941 ms
Remote clock offset: 14.434 ms

# Below is generated by plot.py at 2019-01-21 08:40:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.70 Mbit/s
95th percentile per-packet one-way delay: 111.404 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 380.70 Mbit/s
95th percentile per-packet one-way delay: 111.404 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

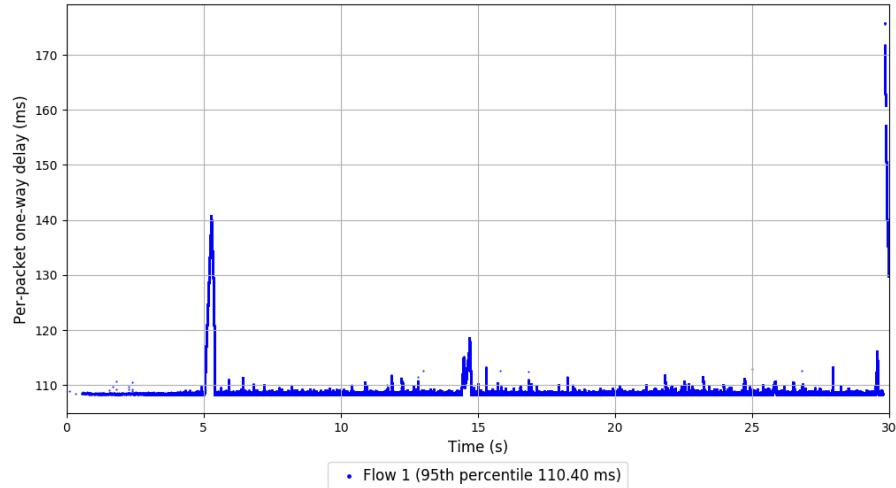
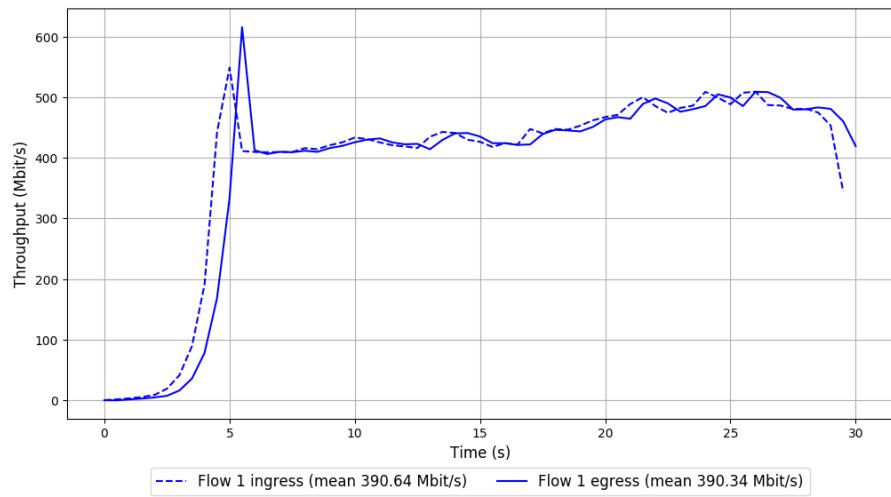


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-21 05:29:27
End at: 2019-01-21 05:29:57
Local clock offset: 6.837 ms
Remote clock offset: 7.425 ms

# Below is generated by plot.py at 2019-01-21 08:40:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.34 Mbit/s
95th percentile per-packet one-way delay: 110.403 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 390.34 Mbit/s
95th percentile per-packet one-way delay: 110.403 ms
Loss rate: 0.07%
```

Run 4: Report of PCC-Vivace — Data Link

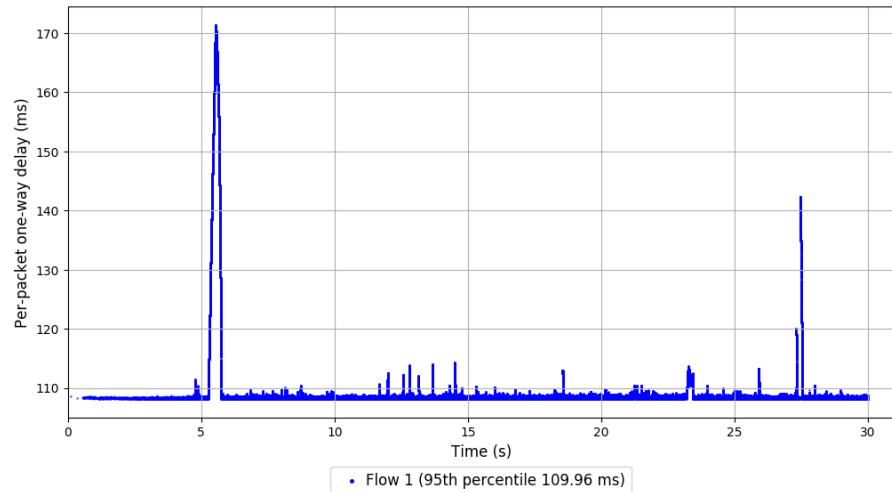
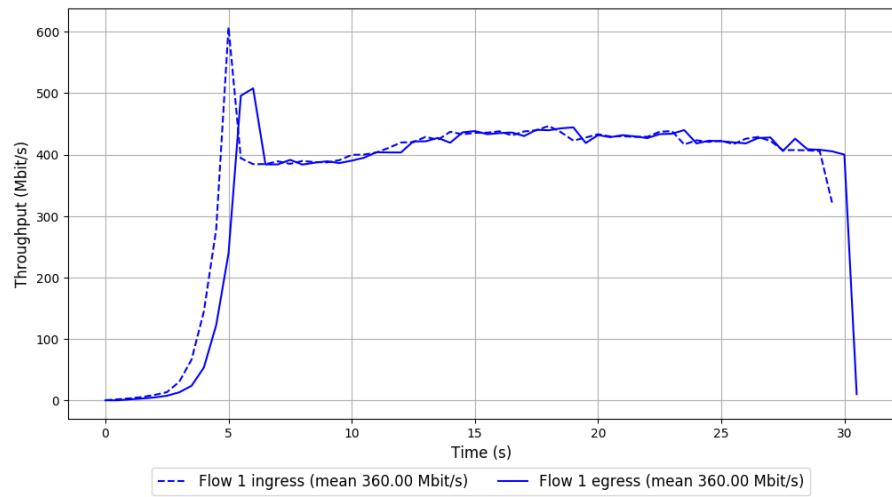


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-21 06:01:15
End at: 2019-01-21 06:01:45
Local clock offset: 3.627 ms
Remote clock offset: 3.13 ms

# Below is generated by plot.py at 2019-01-21 08:40:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 360.00 Mbit/s
95th percentile per-packet one-way delay: 109.961 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 360.00 Mbit/s
95th percentile per-packet one-way delay: 109.961 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

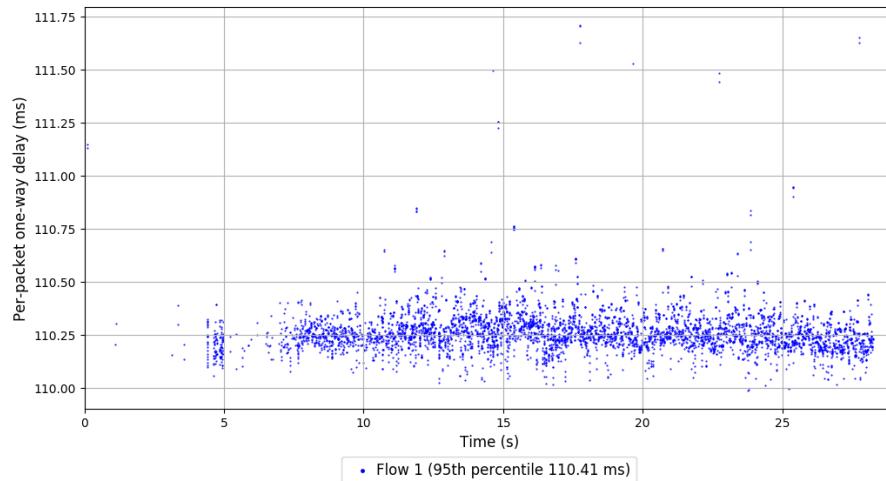
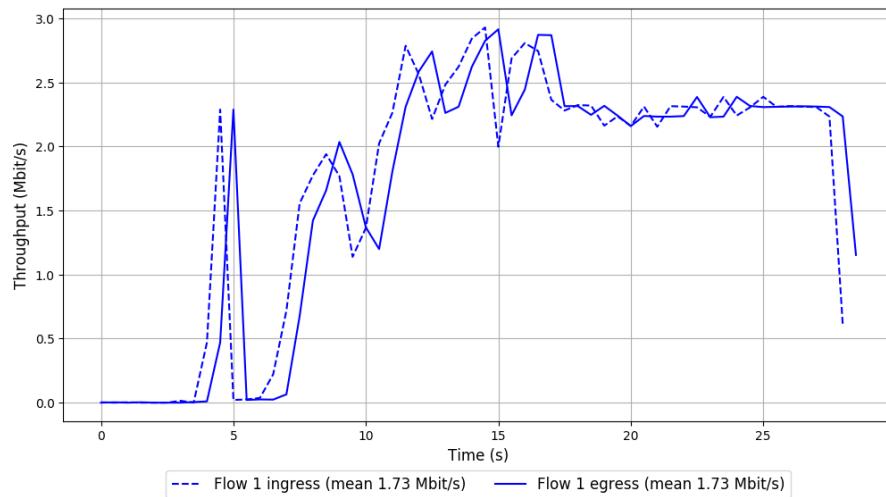


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-01-21 03:59:11
End at: 2019-01-21 03:59:41
Local clock offset: 13.33 ms
Remote clock offset: 15.305 ms

# Below is generated by plot.py at 2019-01-21 08:40:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 110.410 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 110.410 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

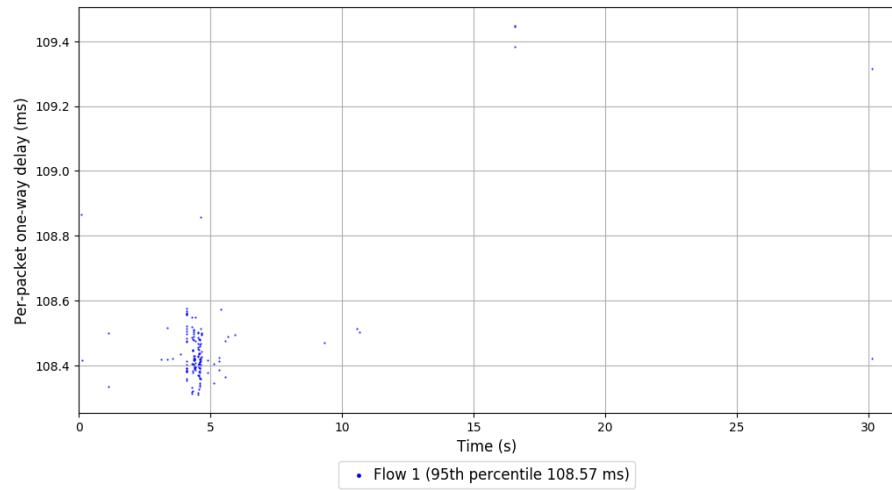
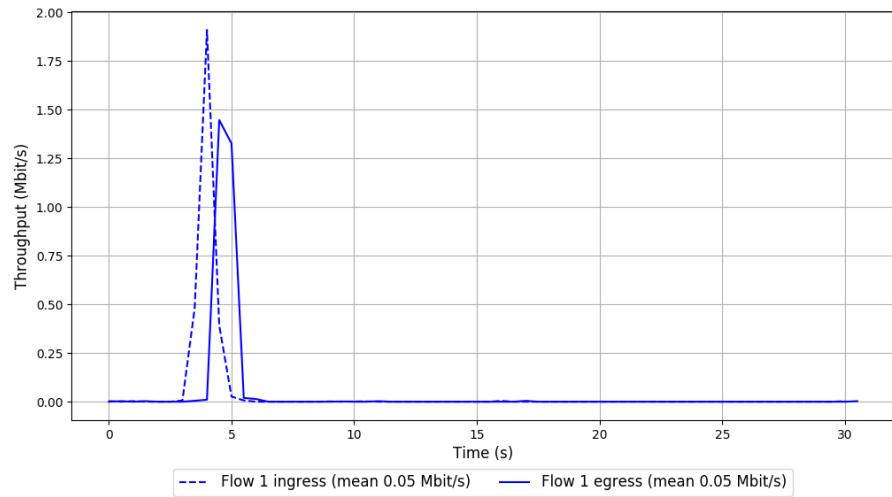


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-21 04:31:33
End at: 2019-01-21 04:32:03
Local clock offset: 26.74 ms
Remote clock offset: 28.473 ms

# Below is generated by plot.py at 2019-01-21 08:40:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 108.568 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 108.568 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

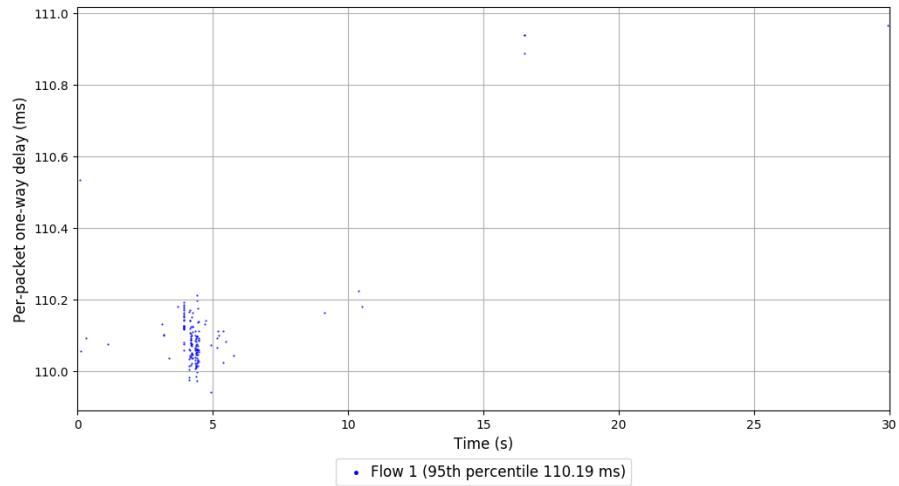
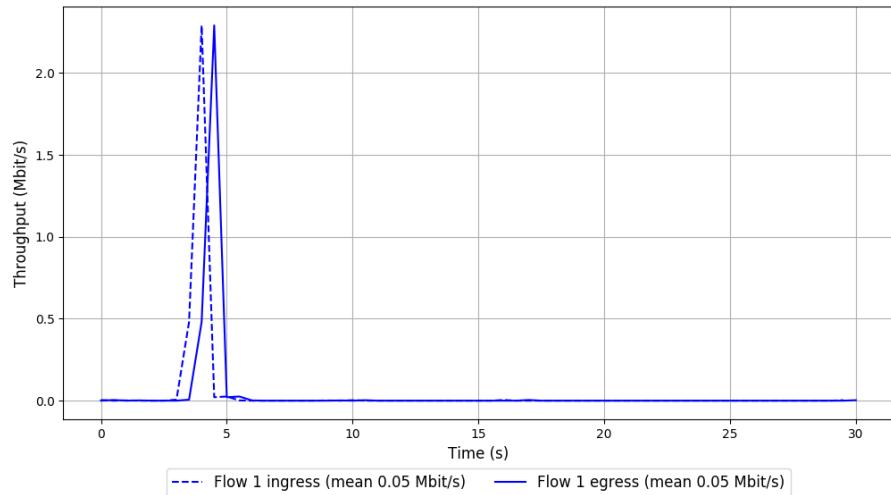


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-21 05:03:31
End at: 2019-01-21 05:04:01
Local clock offset: 13.132 ms
Remote clock offset: 14.78 ms

# Below is generated by plot.py at 2019-01-21 08:40:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.193 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

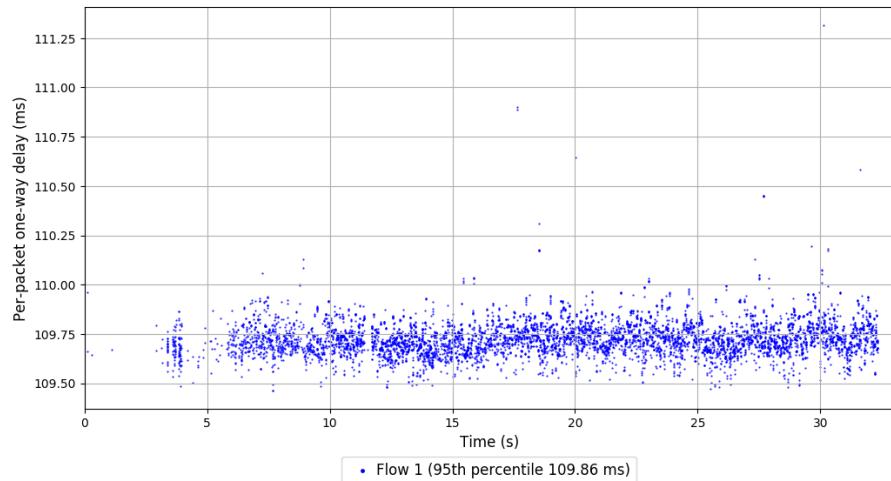
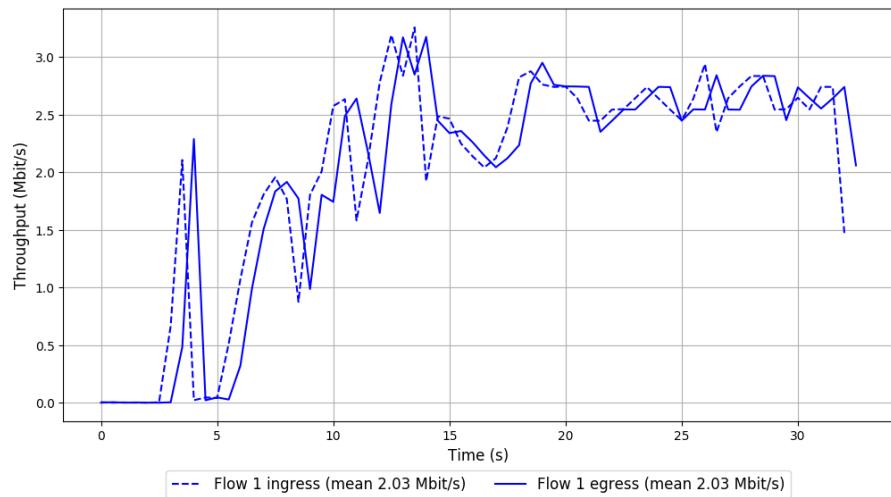


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-21 05:35:20
End at: 2019-01-21 05:35:50
Local clock offset: 5.143 ms
Remote clock offset: 7.077 ms

# Below is generated by plot.py at 2019-01-21 08:40:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 109.861 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 109.861 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-01-21 06:07:07
End at: 2019-01-21 06:07:37
Local clock offset: 1.683 ms
Remote clock offset: 2.355 ms

# Below is generated by plot.py at 2019-01-21 08:40:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 113.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 113.316 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

