Pantheon Report

Generated at 2019-12-11 05:46:06 (UTC).

Data path: AWS India 2 on `ens5` (*local*) →Saudi Arabia on `enp2s0` (*remote*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.
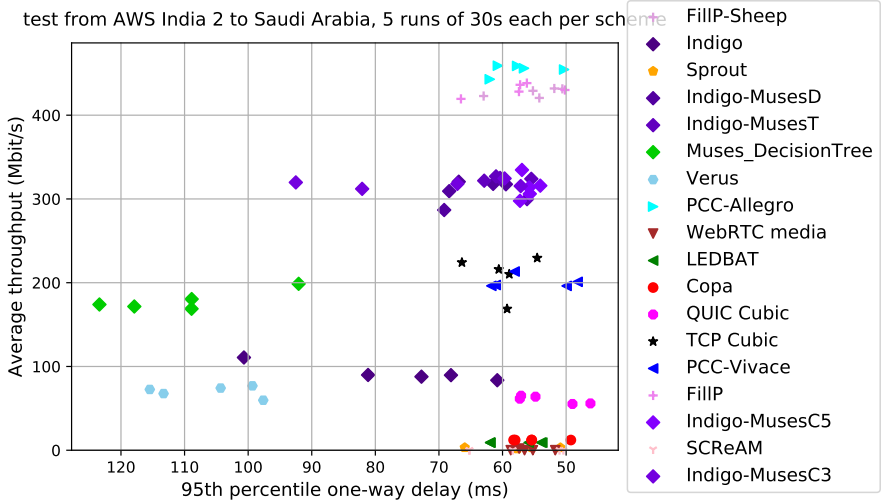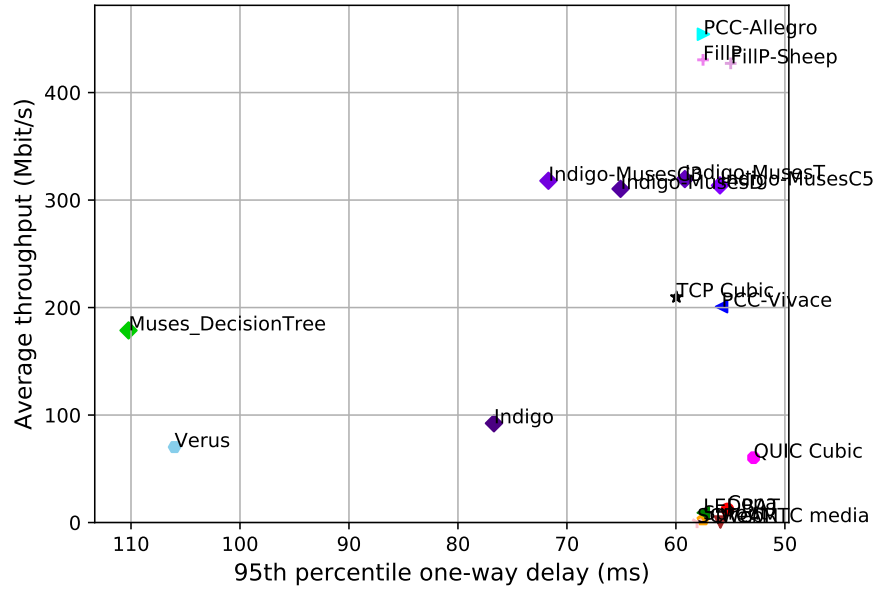
```
System info:
Linux 4.15.0-1054-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
 M helpers/__init__.pyc
 M helpers/context.pyc
 M helpers/utils.pyc
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 AWS India 2 to Saudi Arabia, 5 runs of 30s each per scheme
(mean of all runs by scheme)

test from AWS India 2 to Saudi Arabia, 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	0	N/A	N/A	N/A
Copa	5	12.21	55.27	58.07
TCP Cubic	5	209.71	59.95	0.57
FillP	5	430.45	57.51	6.47
FillP-Sheep	5	427.18	54.97	5.47
Indigo	5	92.33	76.70	0.52
Indigo-MusesC3	5	317.93	71.70	14.51
Indigo-MusesC5	5	313.62	55.96	27.41
Indigo-MusesD	5	310.43	65.08	13.04
Indigo-MusesT	5	319.51	59.18	10.61
LEDBAT	5	9.14	57.49	0.00
Muses_DecisionTree	5	178.73	110.23	51.24
Muses_DecisionTreeH0	0	N/A	N/A	N/A
Muses_DecisionTreeR0	0	N/A	N/A	N/A
PCC-Allegro	5	454.25	57.47	3.67
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	60.34	52.87	0.00
SCReAM	5	0.22	58.06	0.00
Sprout	5	2.72	57.51	0.00
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	0	N/A	N/A	N/A
Verus	5	70.21	106.01	59.25
PCC-Vivace	5	200.82	55.81	0.97
WebRTC media	5	0.44	55.91	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2019-12-11 02:56:19
End at: 2019-12-11 02:56:49
Local clock offset: 6.502 ms
Remote clock offset: -39.822 ms
```

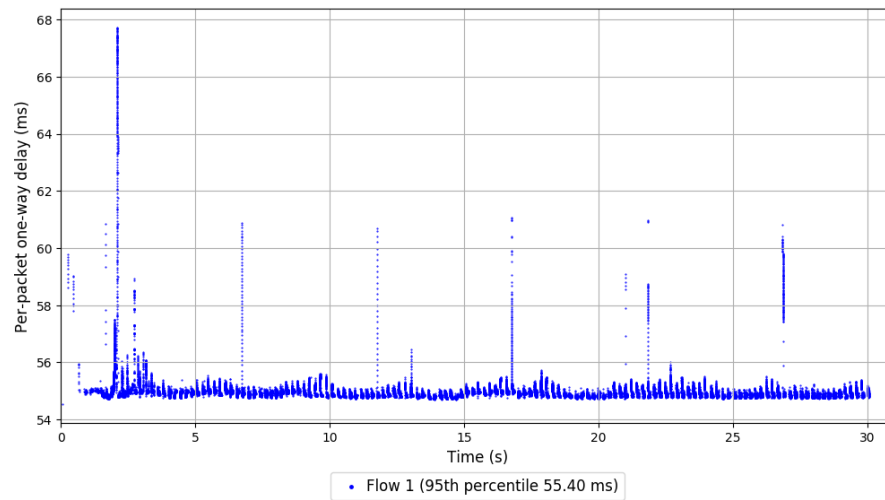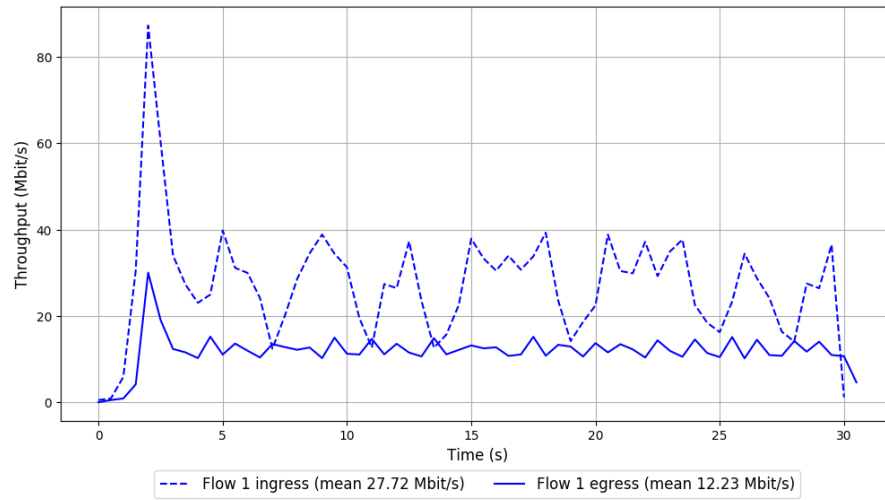Run 1: Report of TCP BBR — Data Link
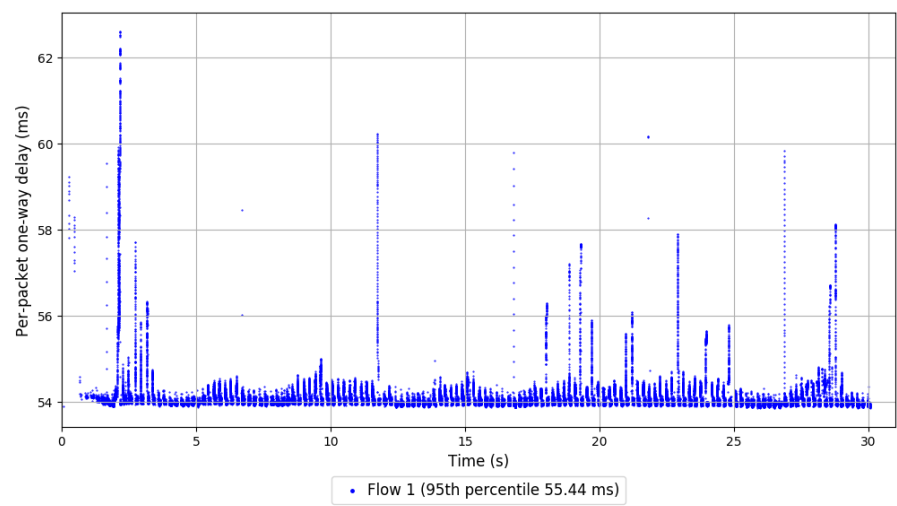
Figure is missing

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Run 2: Statistics of TCP BBR

Start at: 2019-12-11 03:27:09
End at: 2019-12-11 03:27:39
Local clock offset: 1.601 ms
Remote clock offset: -40.545 ms

Run 2: Report of TCP BBR — Data Link

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```
Run 3: Statistics of TCP BBR

Start at: 2019-12-11 03:57:54
End at: 2019-12-11 03:58:24
Local clock offset: 5.709 ms
Remote clock offset: -36.617 ms
```
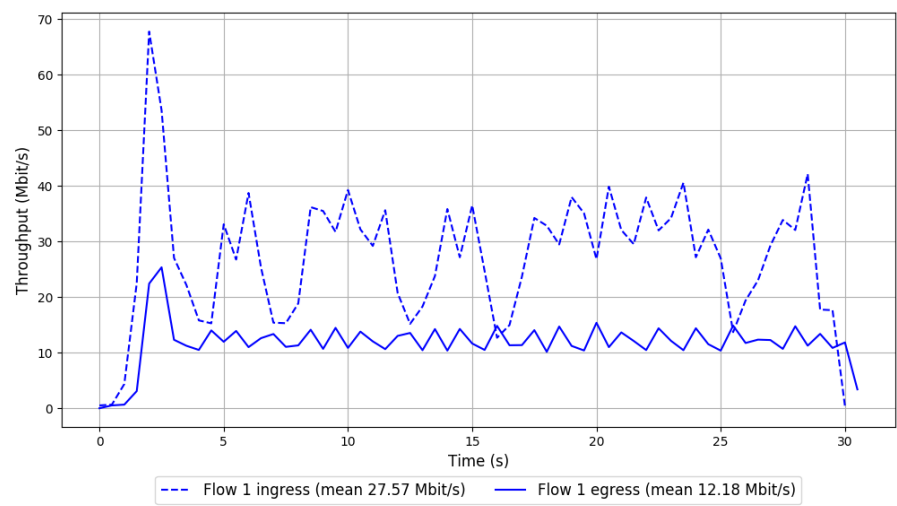
Run 3: Report of TCP BBR — Data Link

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Figure is missing

```
Run 4: Statistics of TCP BBR

Start at: 2019-12-11 04:28:39
End at: 2019-12-11 04:29:09
Local clock offset: 6.417 ms
Remote clock offset: -43.557 ms
```

Run 4: Report of TCP BBR — Data Link

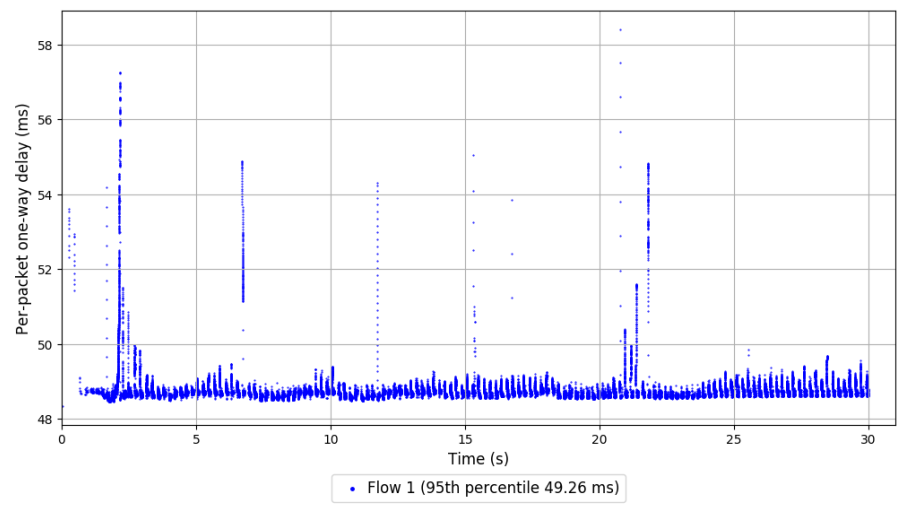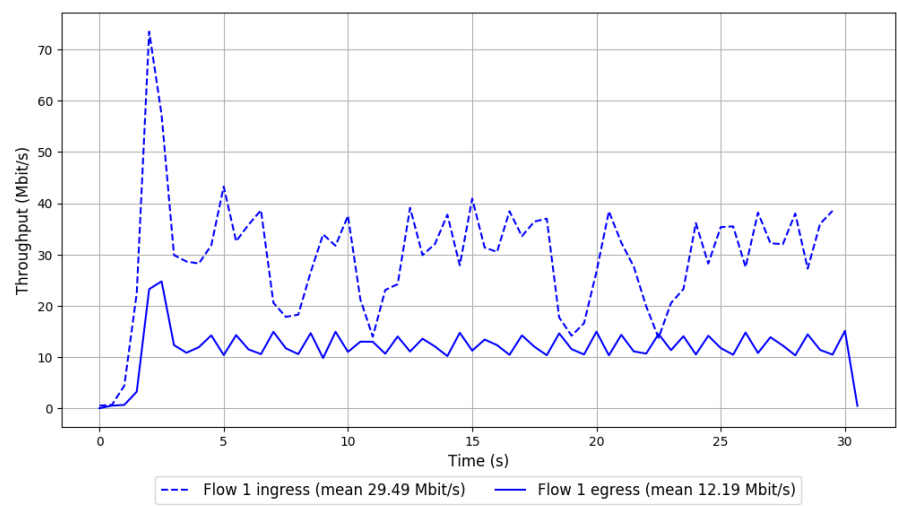Figure is missing

Figure is missing

```
Run 5: Statistics of TCP BBR

Start at: 2019-12-11 04:59:26
End at: 2019-12-11 04:59:56
Local clock offset: 2.123 ms
Remote clock offset: -36.838 ms
```

Run 5: Report of TCP BBR — Data Link

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```
Run 1: Statistics of Copa

Start at: 2019-12-11 03:07:38
End at: 2019-12-11 03:08:09
Local clock offset: 5.305 ms
Remote clock offset: -40.345 ms


# Below is generated by plot.py at 2019-12-11 05:17:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.23 Mbit/s
95th percentile per-packet one-way delay: 55.400 ms
Loss rate: 55.88%
-- Flow 1:
Average throughput: 12.23 Mbit/s
95th percentile per-packet one-way delay: 55.400 ms
Loss rate: 55.88%
```

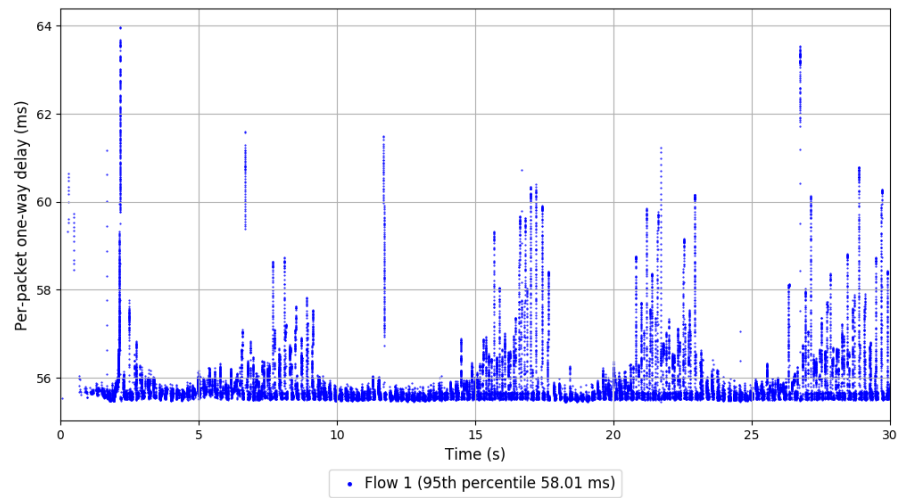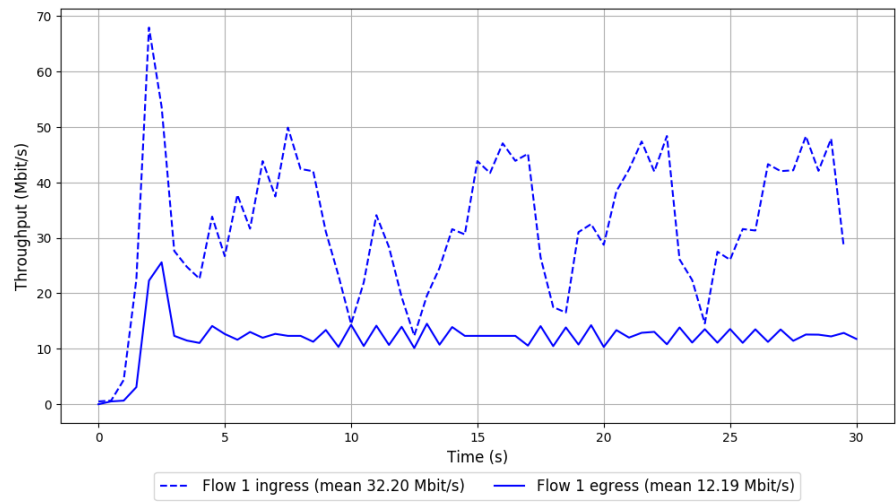Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2019-12-11 03:38:27
End at: 2019-12-11 03:38:57
Local clock offset: 3.942 ms
Remote clock offset: -43.36 ms


# Below is generated by plot.py at 2019-12-11 05:17:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.18 Mbit/s
95th percentile per-packet one-way delay: 55.435 ms
Loss rate: 55.82%
-- Flow 1:
Average throughput: 12.18 Mbit/s
95th percentile per-packet one-way delay: 55.435 ms
Loss rate: 55.82%
```
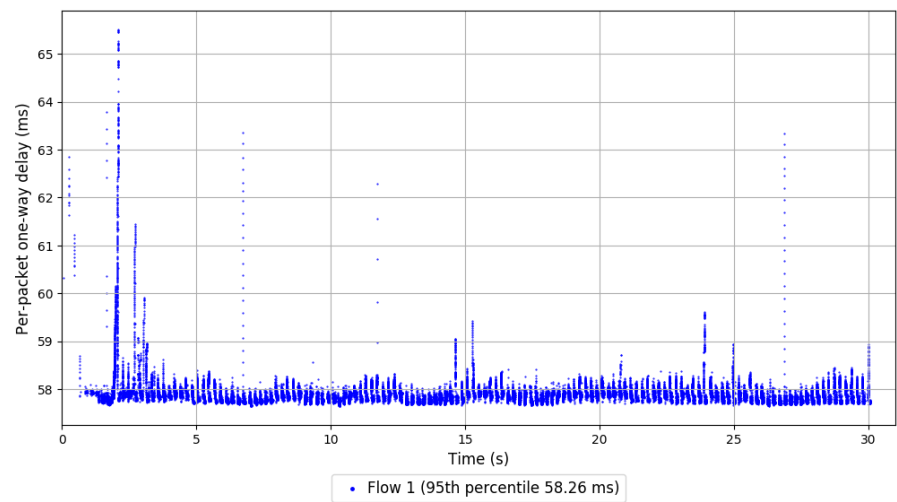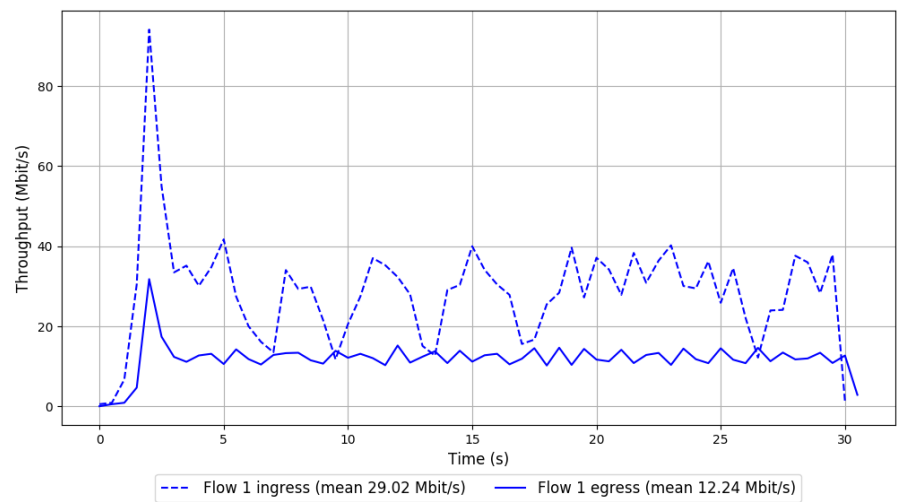
Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2019-12-11 04:09:09
End at: 2019-12-11 04:09:39
Local clock offset: 3.82 ms
Remote clock offset: -47.208 ms


# Below is generated by plot.py at 2019-12-11 05:17:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 49.256 ms
Loss rate: 58.67%
-- Flow 1:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 49.256 ms
Loss rate: 58.67%
```
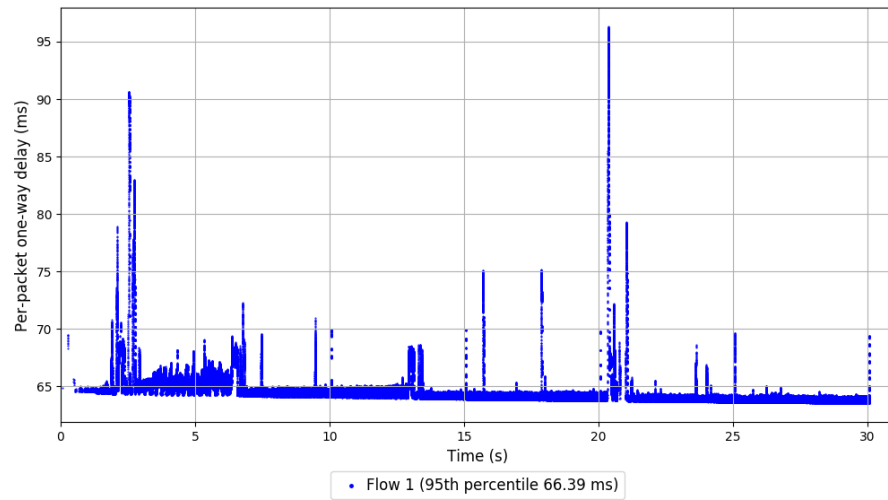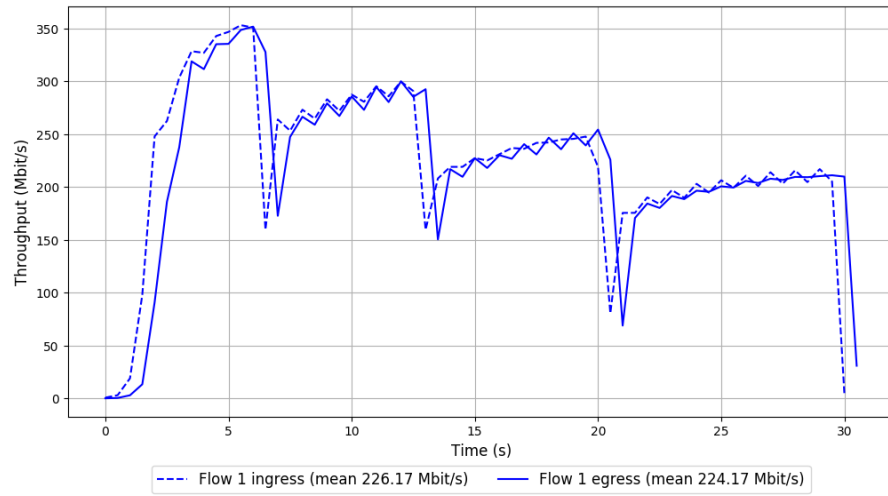
Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 29.49 Mbit/s)   Flow 1 egress (mean 12.19 Mbit/s)

Flow 1 (95th percentile 49.26 ms)

```
Run 4: Statistics of Copa

Start at: 2019-12-11 04:39:58
End at: 2019-12-11 04:40:29
Local clock offset: 6.319 ms
Remote clock offset: -39.68 ms


# Below is generated by plot.py at 2019-12-11 05:17:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 58.013 ms
Loss rate: 62.16%
-- Flow 1:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 58.013 ms
Loss rate: 62.16%
```
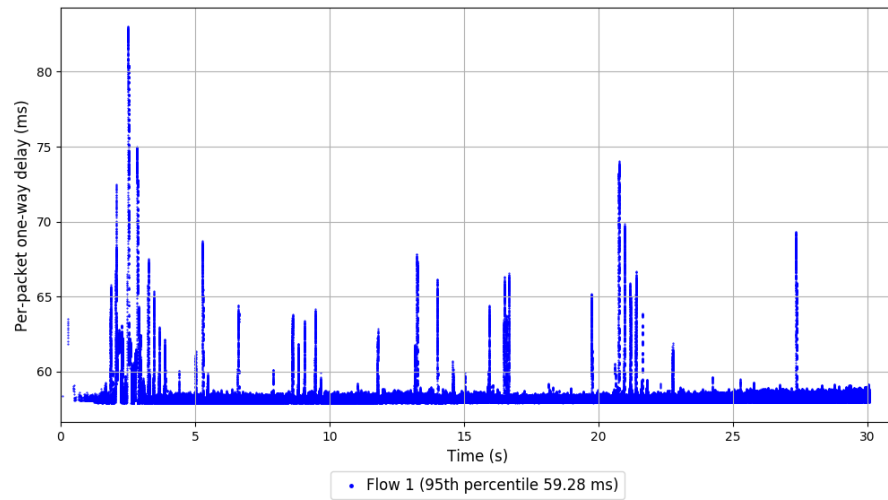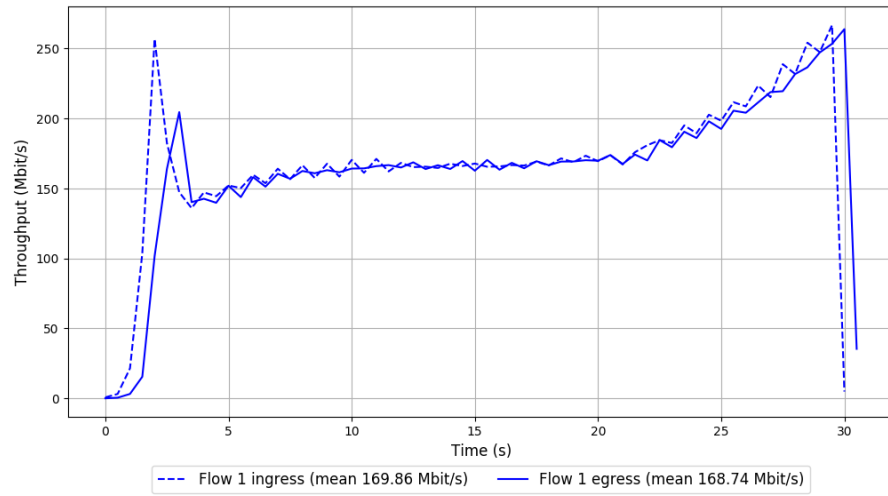
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2019-12-11 05:10:45
End at: 2019-12-11 05:11:15
Local clock offset: 7.389 ms
Remote clock offset: -36.395 ms


# Below is generated by plot.py at 2019-12-11 05:17:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 58.262 ms
Loss rate: 57.84%
-- Flow 1:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 58.262 ms
Loss rate: 57.84%
```

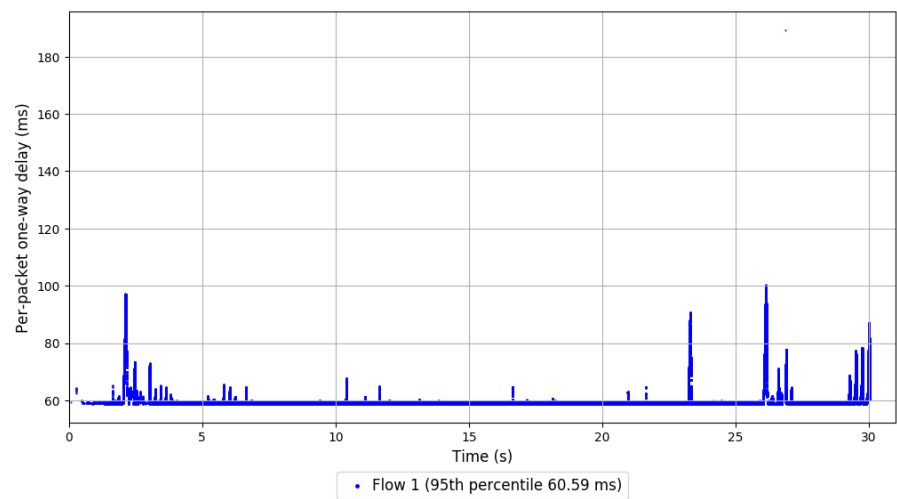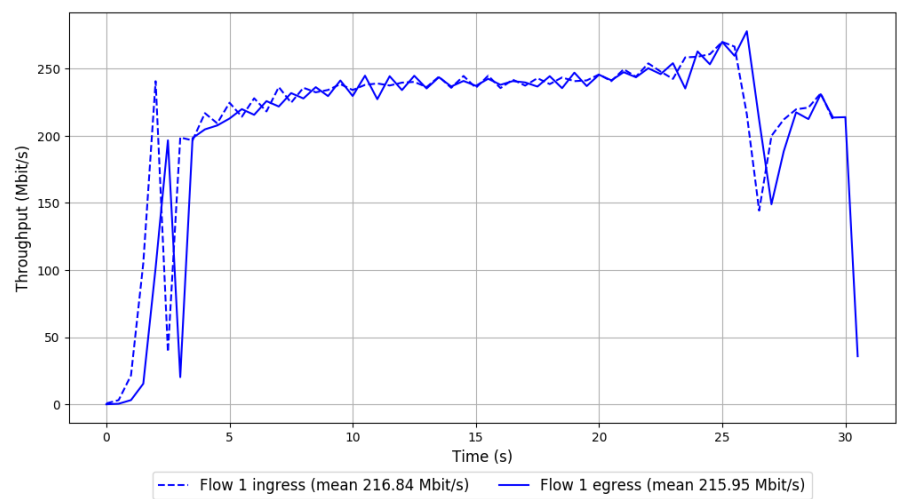Run 5: Report of Copa — Data Link

```
Run 1: Statistics of TCP Cubic

Start at: 2019-12-11 02:40:34
End at: 2019-12-11 02:41:04
Local clock offset: 1.968 ms
Remote clock offset: -37.703 ms


# Below is generated by plot.py at 2019-12-11 05:19:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.17 Mbit/s
95th percentile per-packet one-way delay: 66.388 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 224.17 Mbit/s
95th percentile per-packet one-way delay: 66.388 ms
Loss rate: 0.88%
```
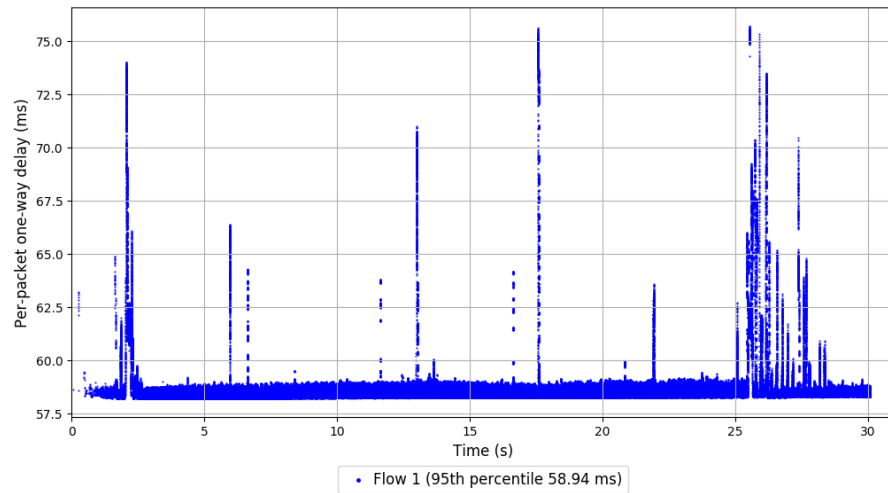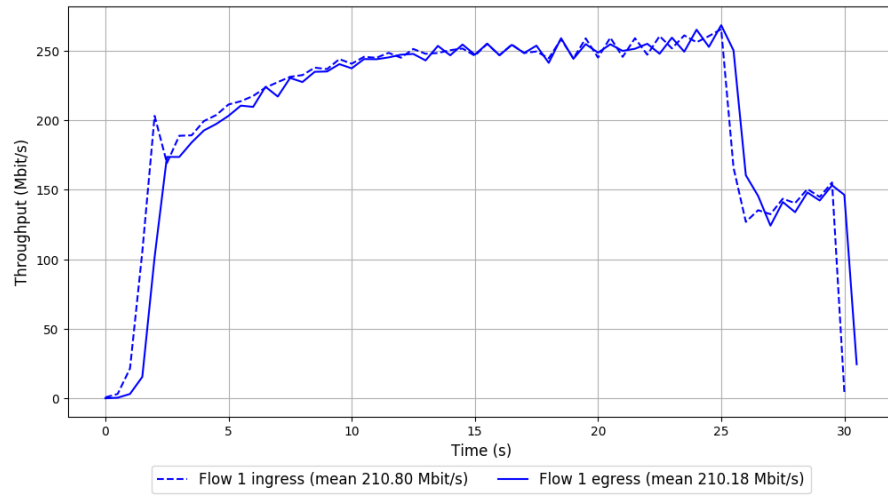
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2019-12-11 03:11:28
End at: 2019-12-11 03:11:58
Local clock offset: 5.553 ms
Remote clock offset: -37.02 ms


# Below is generated by plot.py at 2019-12-11 05:19:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.74 Mbit/s
95th percentile per-packet one-way delay: 59.284 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 168.74 Mbit/s
95th percentile per-packet one-way delay: 59.284 ms
Loss rate: 0.66%
```
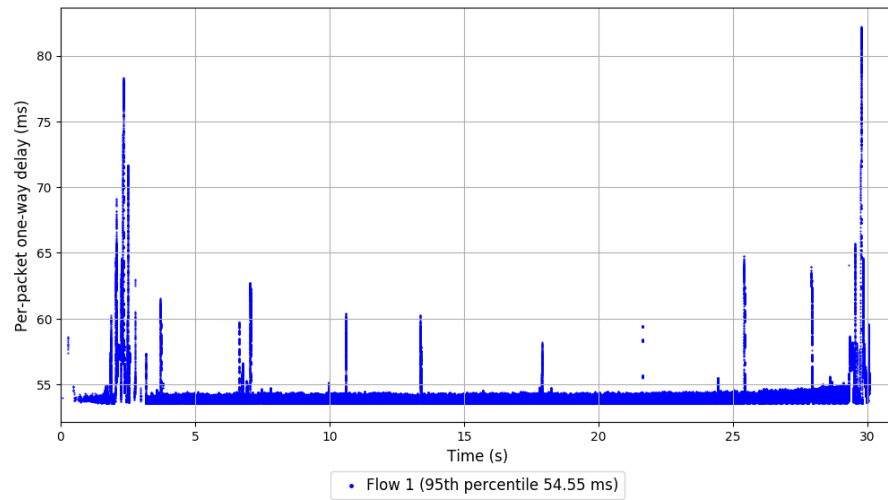
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2019-12-11 03:42:17
End at: 2019-12-11 03:42:47
Local clock offset: 4.747 ms
Remote clock offset: -37.021 ms

# Below is generated by plot.py at 2019-12-11 05:19:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.95 Mbit/s
95th percentile per-packet one-way delay: 60.589 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 215.95 Mbit/s
95th percentile per-packet one-way delay: 60.589 ms
Loss rate: 0.41%
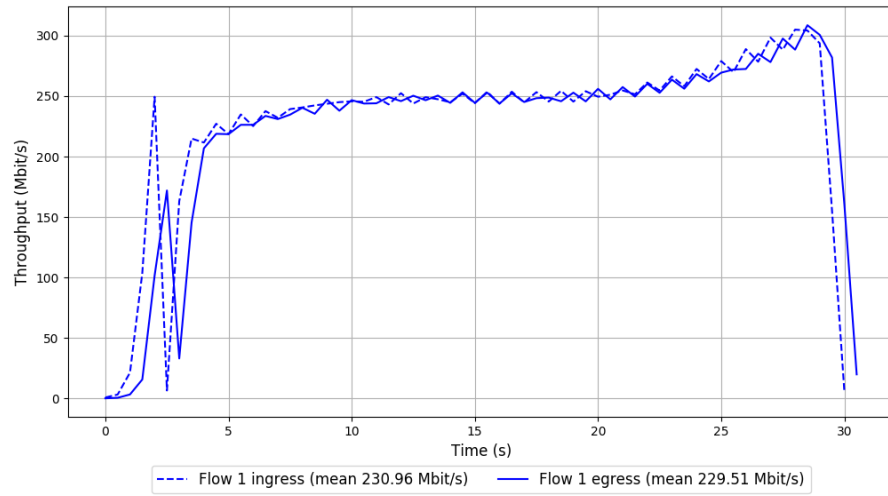```
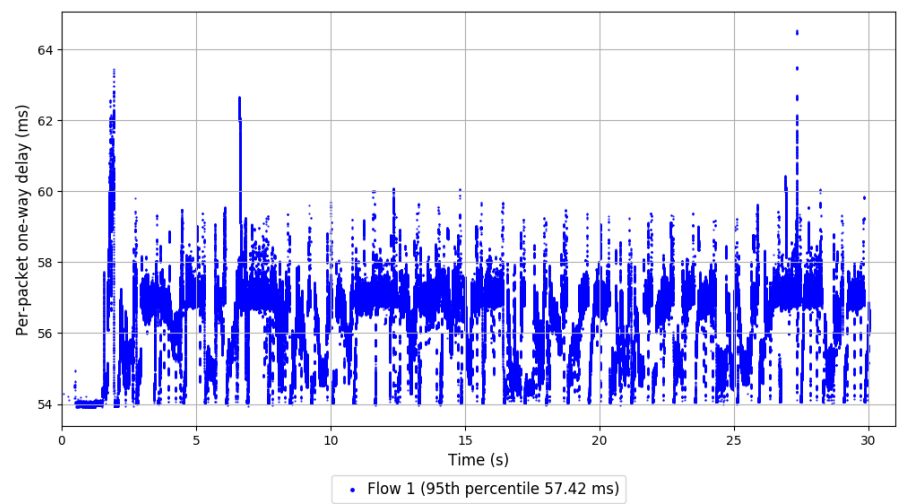
Run 3: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 216.84 Mbit/s)     Flow 1 egress (mean 215.95 Mbit/s)



Flow 1 (95th percentile 60.59 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2019-12-11 04:12:59
End at: 2019-12-11 04:13:29
Local clock offset: 5.034 ms
Remote clock offset: -36.629 ms

Below is generated by plot.py at 2019-12-11 05:19:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 210.18 Mbit/s
95th percentile per-packet one-way delay: 58.940 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 210.18 Mbit/s
95th percentile per-packet one-way delay: 58.940 ms
Loss rate: 0.29%
```
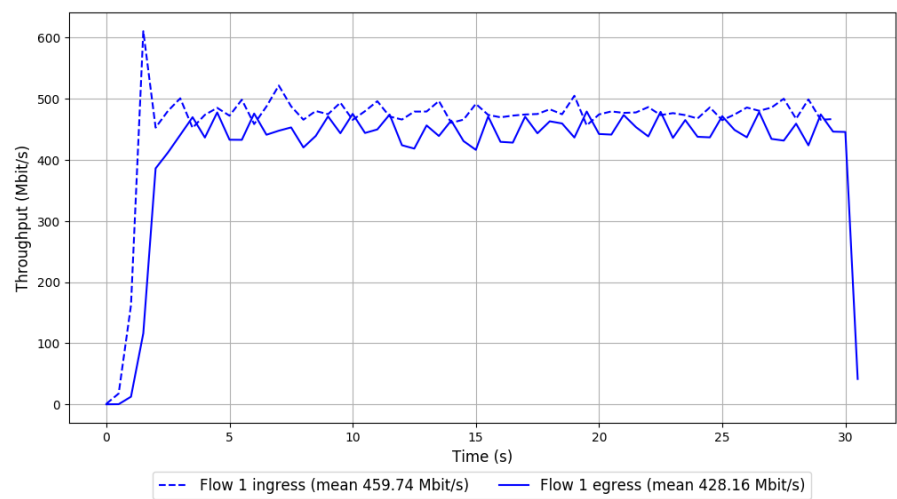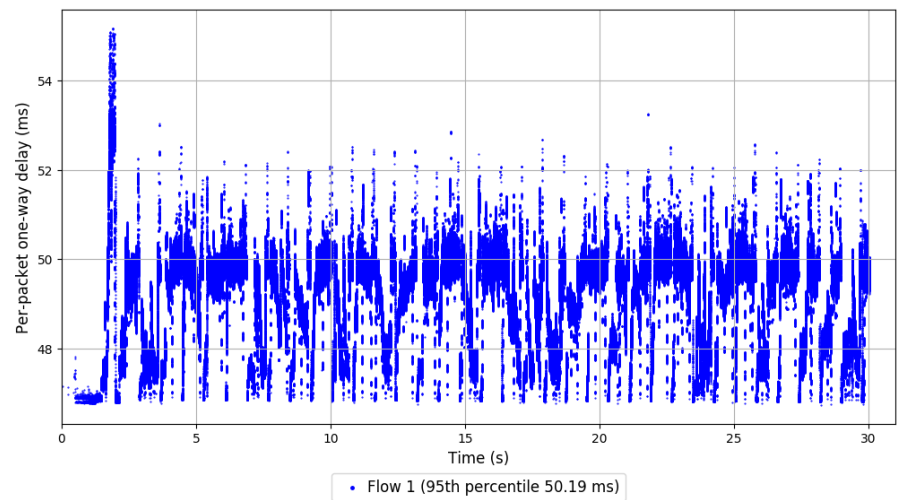
Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2019-12-11 04:43:48
End at: 2019-12-11 04:44:18
Local clock offset: 4.629 ms
Remote clock offset: -42.822 ms


# Below is generated by plot.py at 2019-12-11 05:20:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.51 Mbit/s
95th percentile per-packet one-way delay: 54.548 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 229.51 Mbit/s
95th percentile per-packet one-way delay: 54.548 ms
Loss rate: 0.62%
```

Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 230.96 Mbit/s)   Flow 1 egress (mean 229.51 Mbit/s)
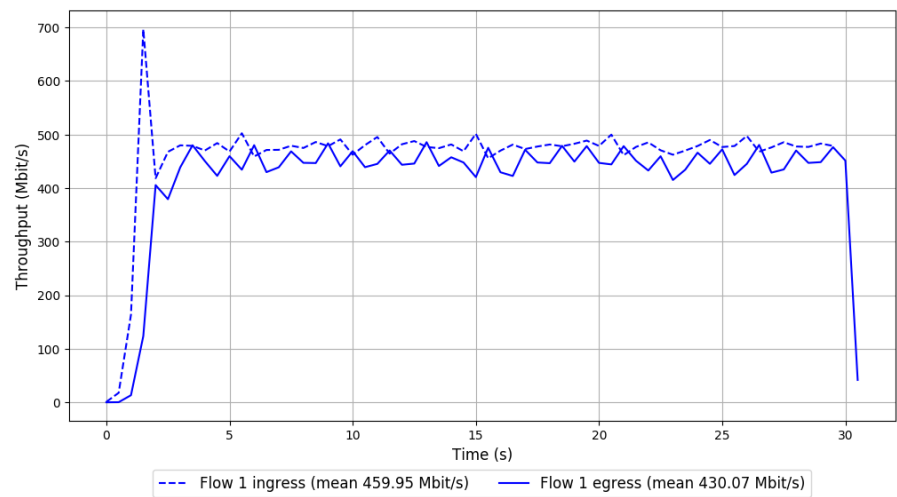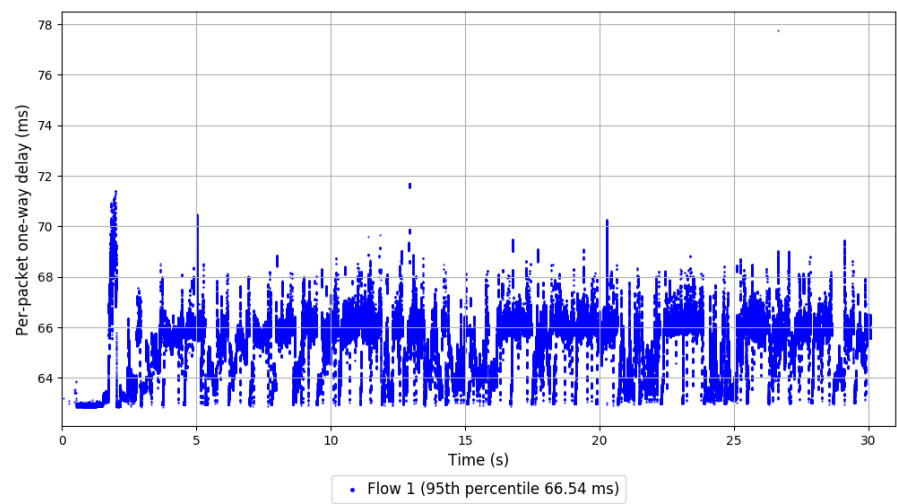

Flow 1 (95th percentile 54.55 ms)

```
Run 1: Statistics of FillP

Start at: 2019-12-11 03:08:50
End at: 2019-12-11 03:09:20
Local clock offset: 5.175 ms
Remote clock offset: -40.887 ms


# Below is generated by plot.py at 2019-12-11 05:23:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 428.16 Mbit/s
95th percentile per-packet one-way delay: 57.417 ms
Loss rate: 6.86%
-- Flow 1:
Average throughput: 428.16 Mbit/s
95th percentile per-packet one-way delay: 57.417 ms
Loss rate: 6.86%
```
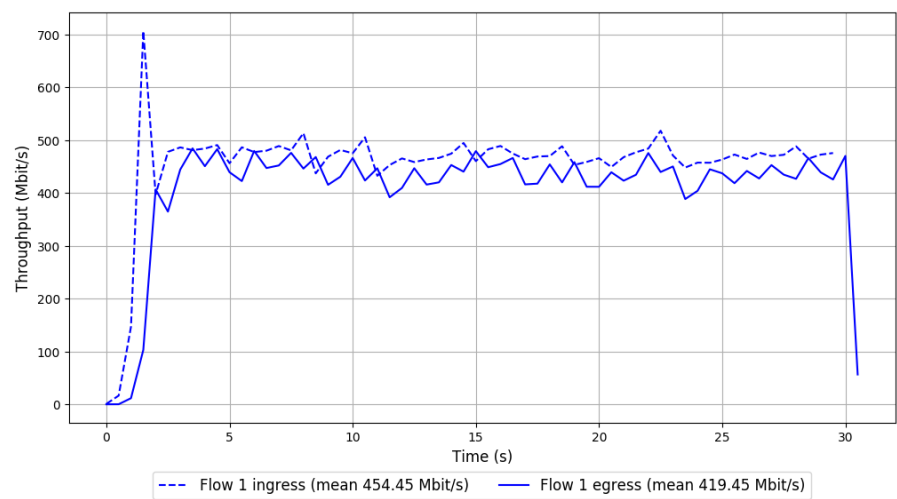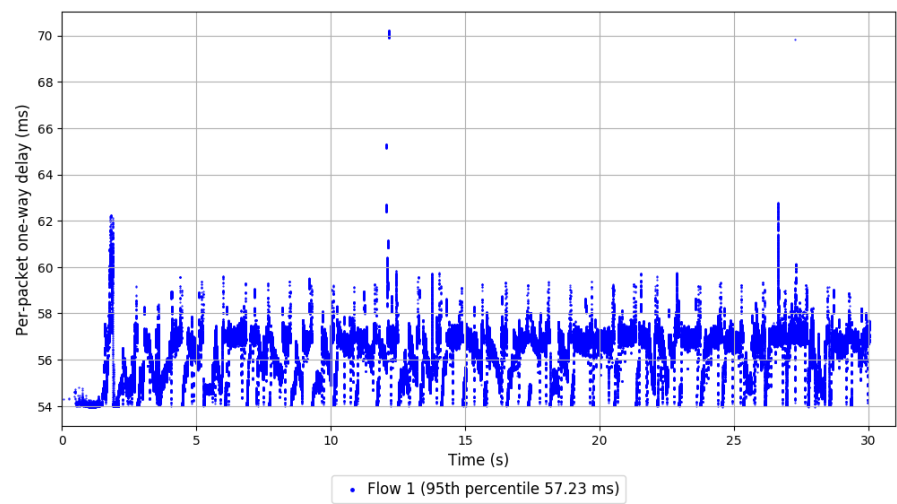
Run 1: Report of FillP — Data Link

```
Run 2: Statistics of FillP

Start at: 2019-12-11 03:39:40
End at: 2019-12-11 03:40:10
Local clock offset: 6.595 ms
Remote clock offset: -47.035 ms

# Below is generated by plot.py at 2019-12-11 05:23:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 430.07 Mbit/s
95th percentile per-packet one-way delay: 50.188 ms
Loss rate: 6.49%
-- Flow 1:
Average throughput: 430.07 Mbit/s
95th percentile per-packet one-way delay: 50.188 ms
Loss rate: 6.49%
```

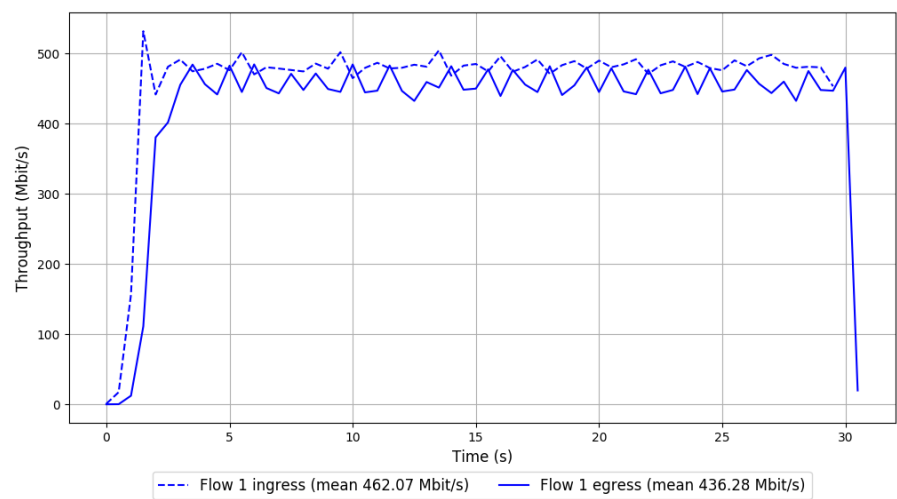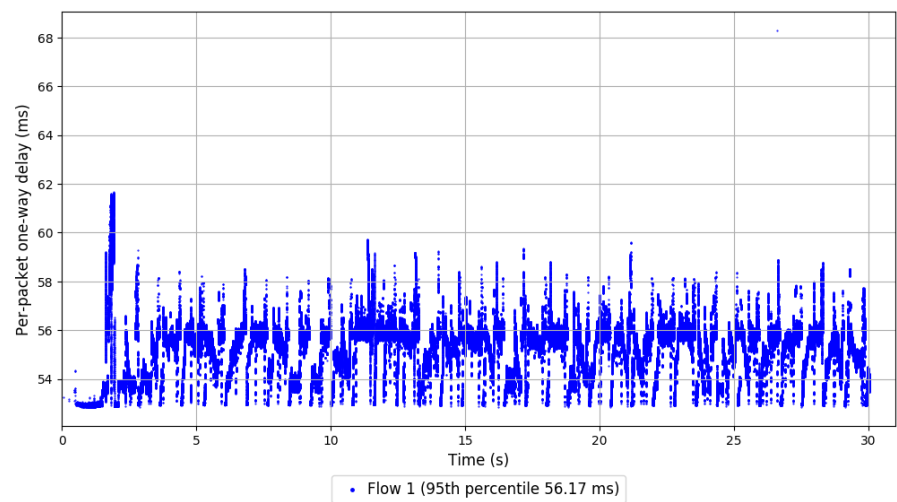Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2019-12-11 04:10:21
End at: 2019-12-11 04:10:51
Local clock offset: 2.251 ms
Remote clock offset: -36.65 ms


# Below is generated by plot.py at 2019-12-11 05:23:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 419.45 Mbit/s
95th percentile per-packet one-way delay: 66.538 ms
Loss rate: 7.69%
-- Flow 1:
Average throughput: 419.45 Mbit/s
95th percentile per-packet one-way delay: 66.538 ms
Loss rate: 7.69%
```

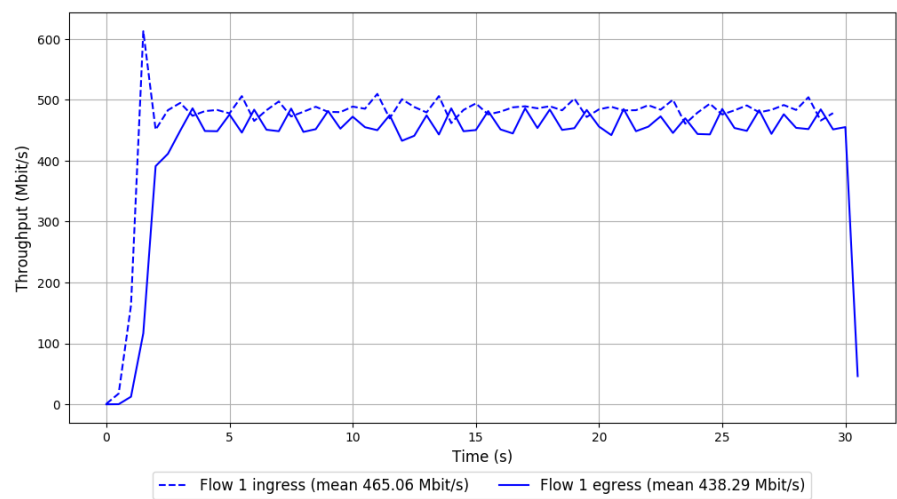Run 3: Report of FillP — Data Link

```
Run 4: Statistics of FillP

Start at: 2019-12-11 04:41:11
End at: 2019-12-11 04:41:41
Local clock offset: 5.892 ms
Remote clock offset: -43.428 ms


# Below is generated by plot.py at 2019-12-11 05:25:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 436.28 Mbit/s
95th percentile per-packet one-way delay: 57.233 ms
Loss rate: 5.57%
-- Flow 1:
Average throughput: 436.28 Mbit/s
95th percentile per-packet one-way delay: 57.233 ms
Loss rate: 5.57%
```
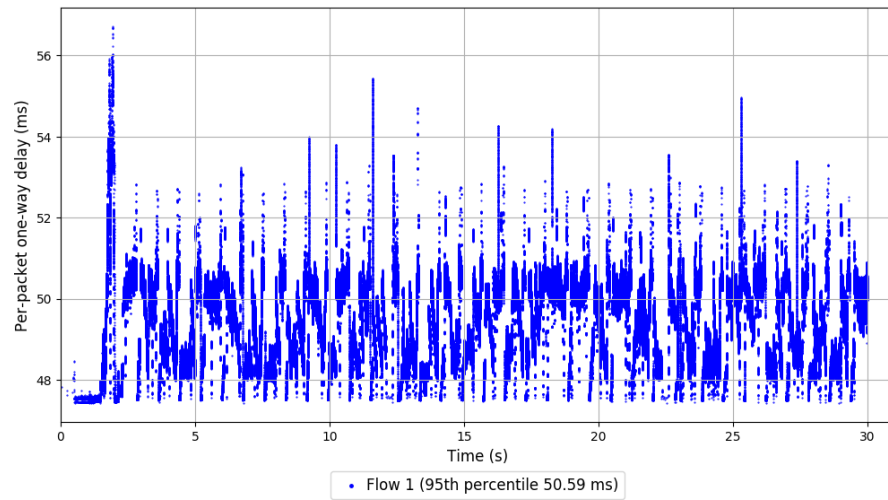
Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 462.07 Mbit/s) --- Flow 1 egress (mean 436.28 Mbit/s)

Flow 1 (95th percentile 57.23 ms)

```
Run 5: Statistics of FillP

Start at: 2019-12-11 05:11:57
End at: 2019-12-11 05:12:27
Local clock offset: 1.815 ms
Remote clock offset: -46.408 ms


# Below is generated by plot.py at 2019-12-11 05:26:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 438.29 Mbit/s
95th percentile per-packet one-way delay: 56.173 ms
Loss rate: 5.75%
-- Flow 1:
Average throughput: 438.29 Mbit/s
95th percentile per-packet one-way delay: 56.173 ms
Loss rate: 5.75%
```
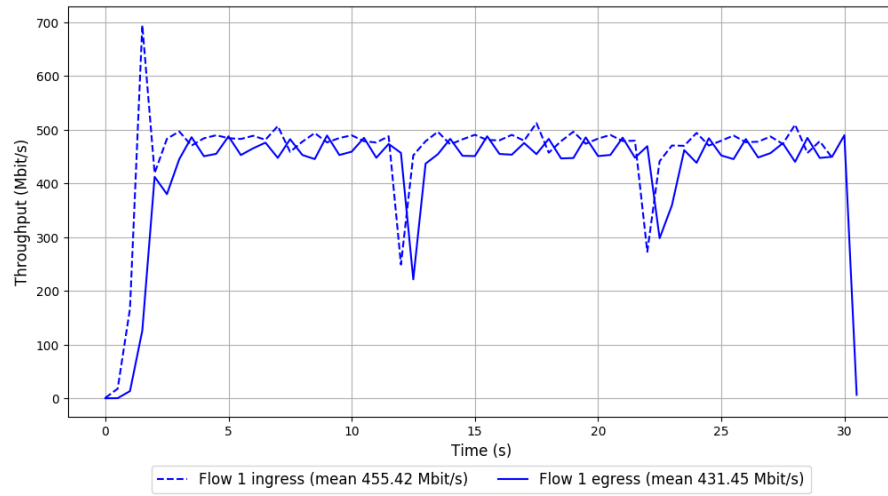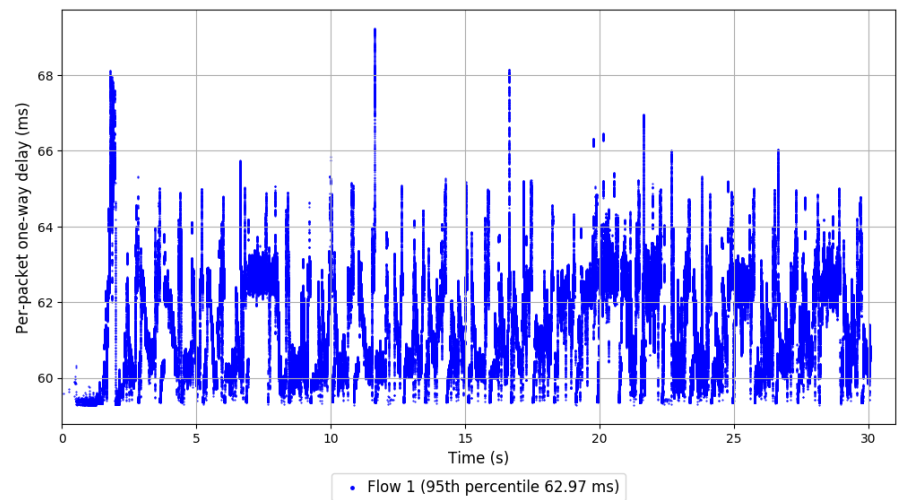
Run 5: Report of FillP — Data Link

```
Run 1: Statistics of FillP-Sheep

Start at: 2019-12-11 02:54:47
End at: 2019-12-11 02:55:17
Local clock offset: 6.433 ms
Remote clock offset: -47.772 ms


# Below is generated by plot.py at 2019-12-11 05:26:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 431.45 Mbit/s
95th percentile per-packet one-way delay: 50.593 ms
Loss rate: 5.25%
-- Flow 1:
Average throughput: 431.45 Mbit/s
95th percentile per-packet one-way delay: 50.593 ms
Loss rate: 5.25%
```
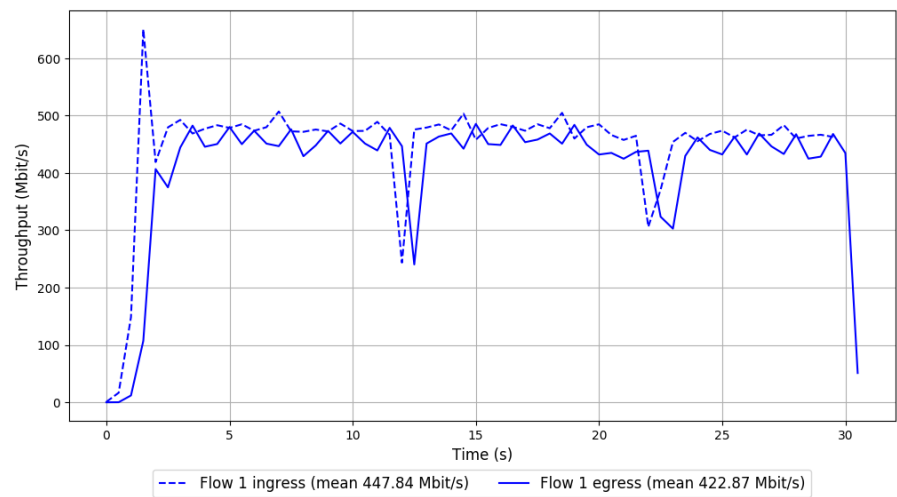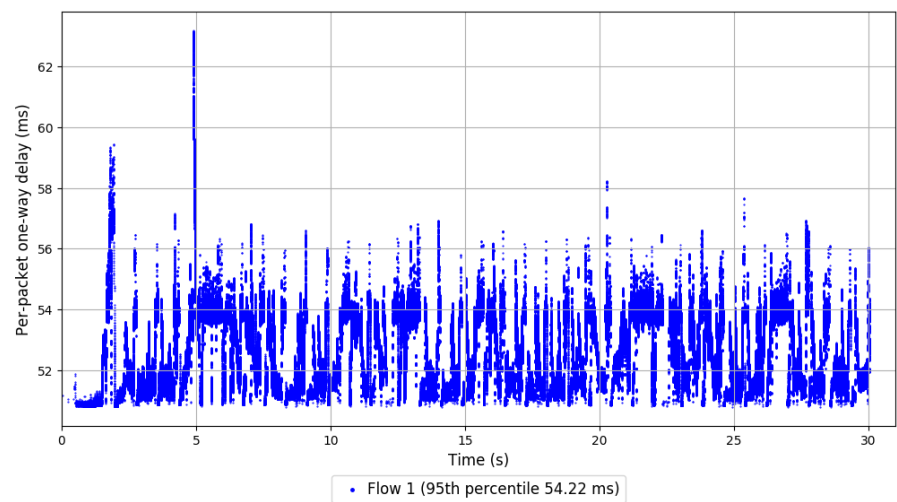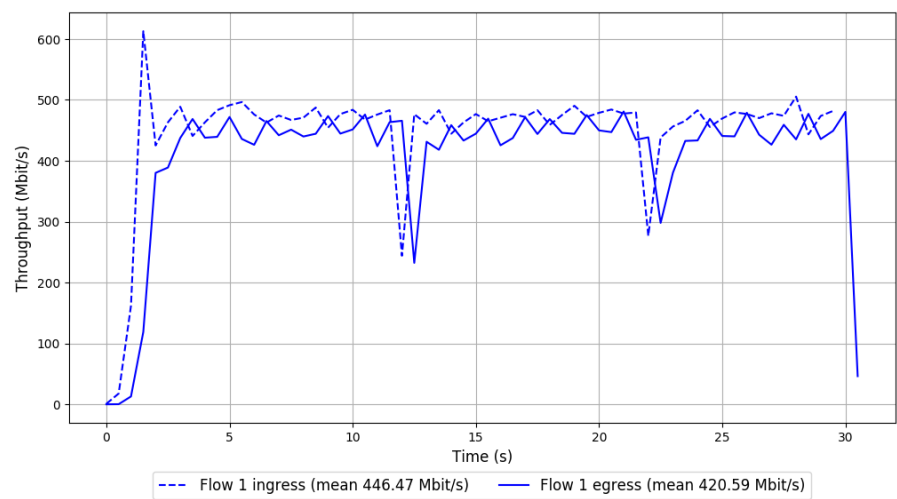
Run 1: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 455.42 Mbit/s)   Flow 1 egress (mean 431.45 Mbit/s)

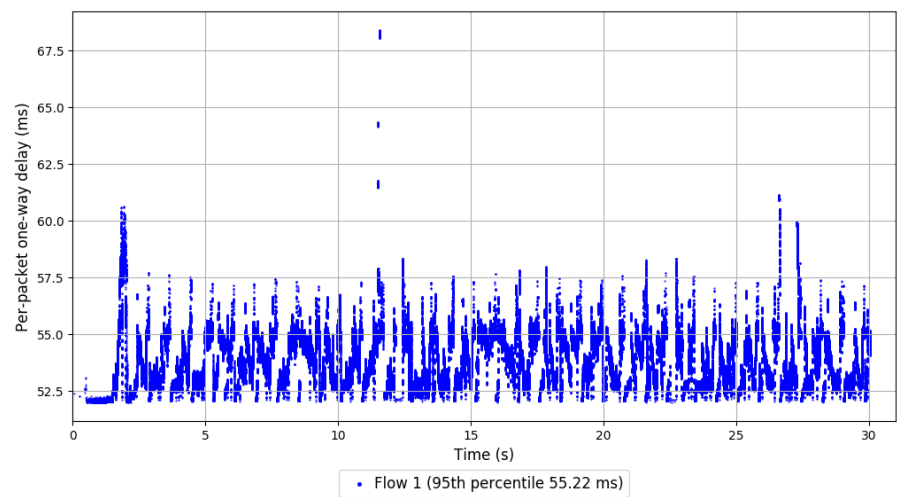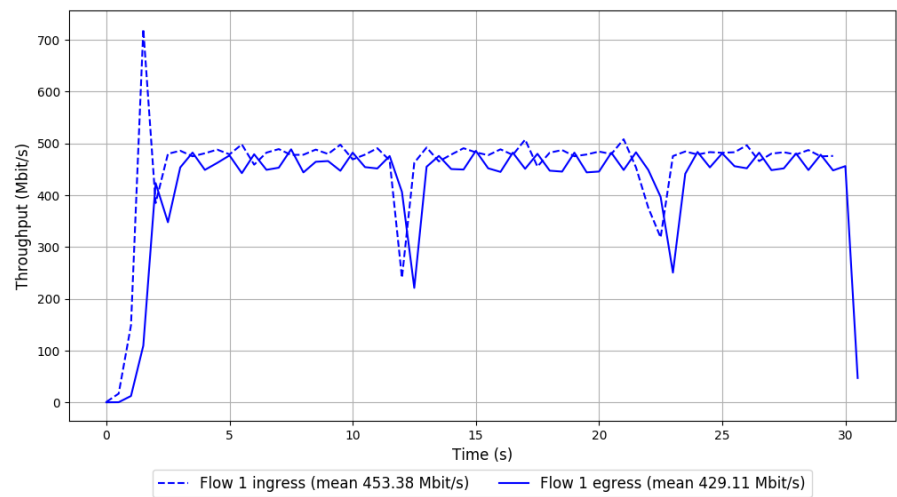

• Flow 1 (95th percentile 50.59 ms)

```
Run 2: Statistics of FillP-Sheep

Start at: 2019-12-11 03:25:41
End at: 2019-12-11 03:26:11
Local clock offset: 6.731 ms
Remote clock offset: -37.329 ms


# Below is generated by plot.py at 2019-12-11 05:26:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 422.87 Mbit/s
95th percentile per-packet one-way delay: 62.973 ms
Loss rate: 5.57%
-- Flow 1:
Average throughput: 422.87 Mbit/s
95th percentile per-packet one-way delay: 62.973 ms
Loss rate: 5.57%
```

Run 2: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 447.84 Mbit/s)   Flow 1 egress (mean 422.87 Mbit/s)

Flow 1 (95th percentile 62.97 ms)

```
Run 3: Statistics of FillP-Sheep

Start at: 2019-12-11 03:56:27
End at: 2019-12-11 03:56:57
Local clock offset: 4.48 ms
Remote clock offset: -44.132 ms


# Below is generated by plot.py at 2019-12-11 05:26:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 420.59 Mbit/s
95th percentile per-packet one-way delay: 54.215 ms
Loss rate: 5.79%
-- Flow 1:
Average throughput: 420.59 Mbit/s
95th percentile per-packet one-way delay: 54.215 ms
Loss rate: 5.79%
```
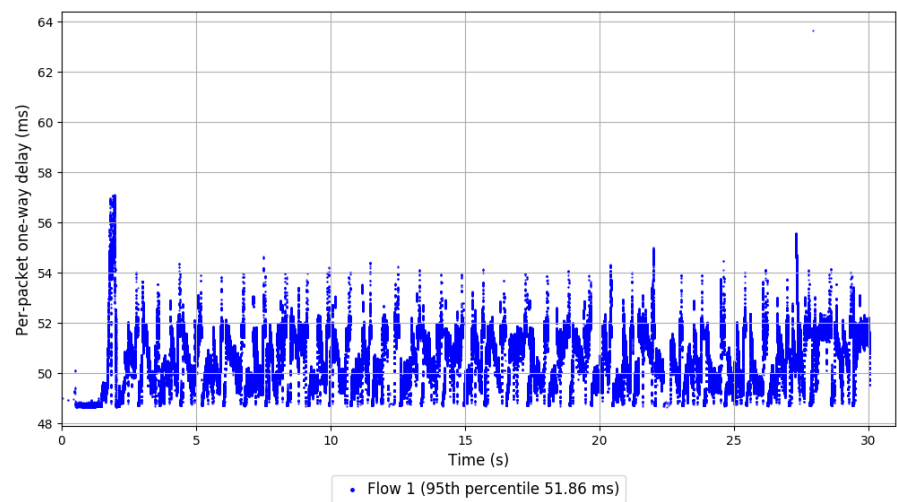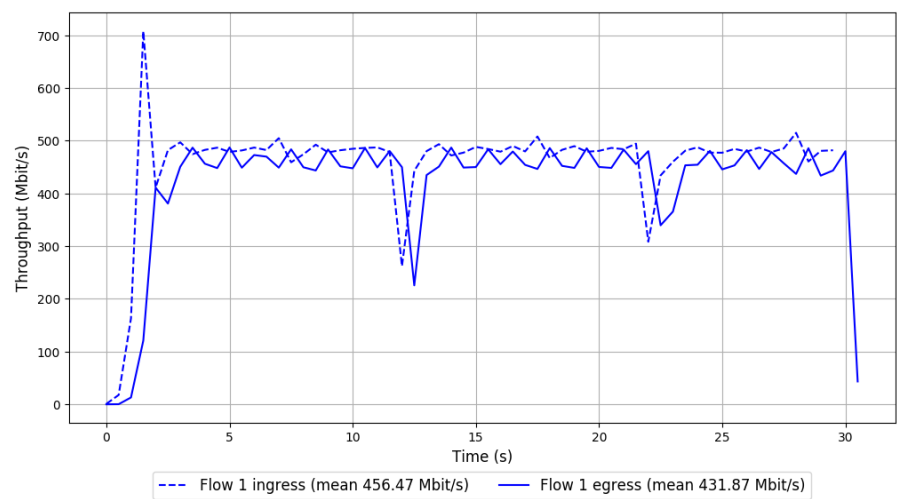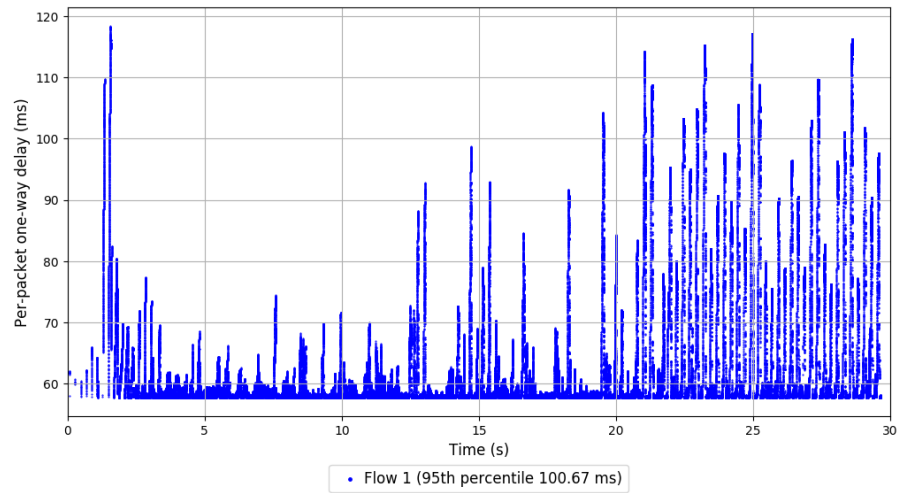
Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 446.47 Mbit/s) --- Flow 1 egress (mean 420.59 Mbit/s)

Flow 1 (95th percentile 54.22 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2019-12-11 04:27:12
End at: 2019-12-11 04:27:42
Local clock offset: 7.21 ms
Remote clock offset: -44.396 ms


# Below is generated by plot.py at 2019-12-11 05:30:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 429.11 Mbit/s
95th percentile per-packet one-way delay: 55.218 ms
Loss rate: 5.35%
-- Flow 1:
Average throughput: 429.11 Mbit/s
95th percentile per-packet one-way delay: 55.218 ms
Loss rate: 5.35%
```
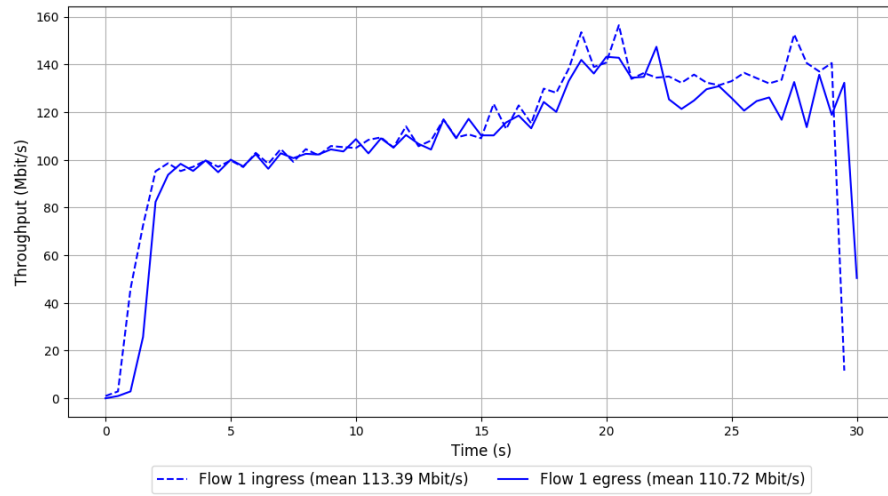
Run 4: Report of FillP-Sheep — Data Link

```
Run 5: Statistics of FillP-Sheep

Start at: 2019-12-11 04:57:59
End at: 2019-12-11 04:58:29
Local clock offset: 5.721 ms
Remote clock offset: -46.405 ms


# Below is generated by plot.py at 2019-12-11 05:30:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 431.87 Mbit/s
95th percentile per-packet one-way delay: 51.858 ms
Loss rate: 5.38%
-- Flow 1:
Average throughput: 431.87 Mbit/s
95th percentile per-packet one-way delay: 51.858 ms
Loss rate: 5.38%
```

Run 5: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 456.47 Mbit/s) --- Flow 1 egress (mean 431.87 Mbit/s)
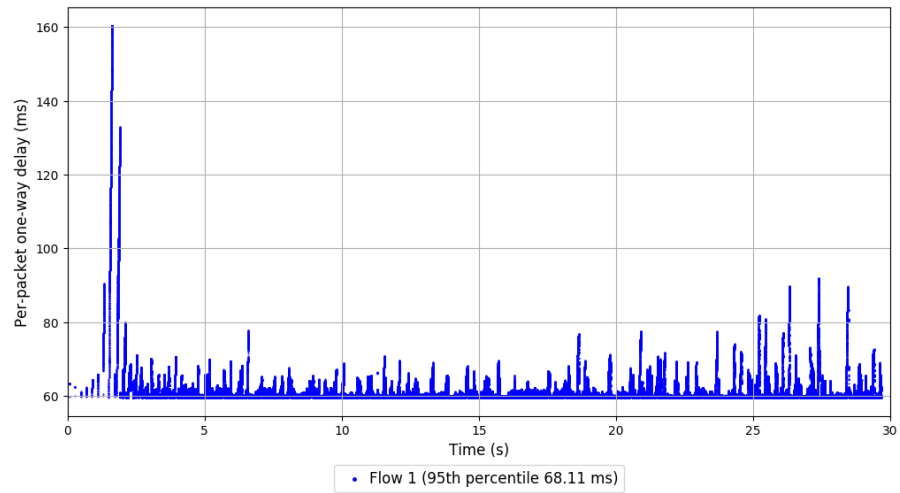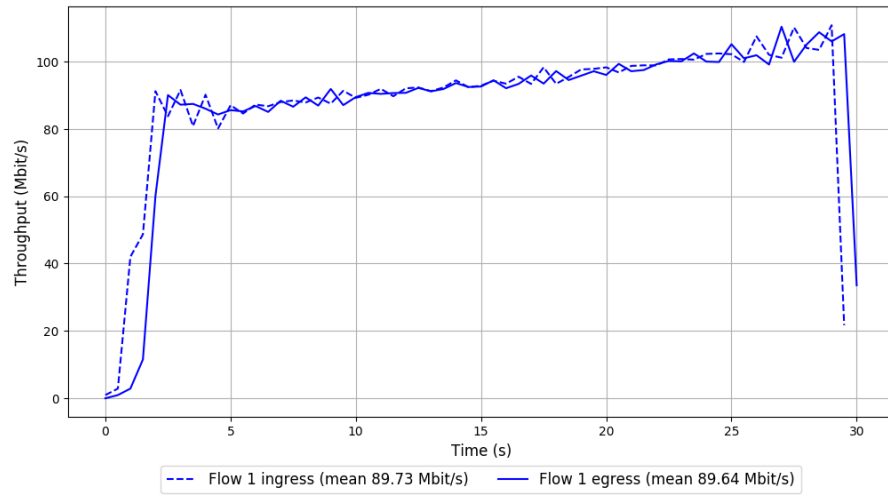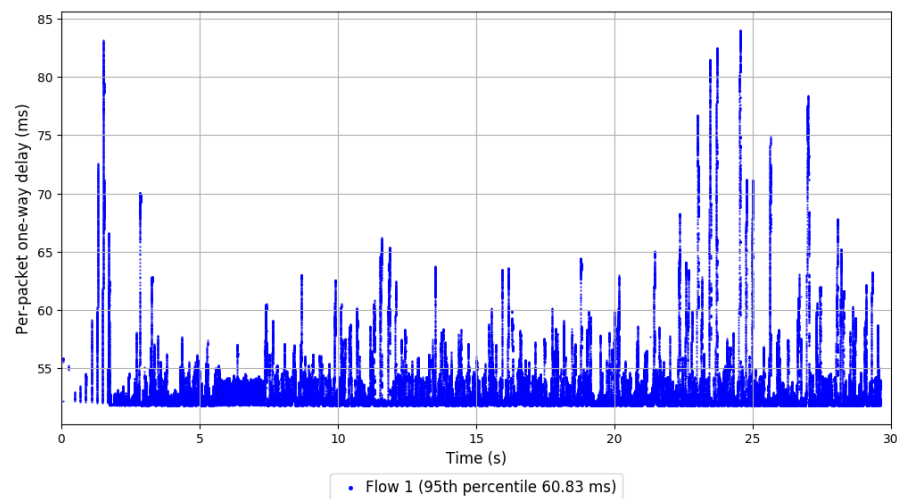

Flow 1 (95th percentile 51.86 ms)

```
Run 1: Statistics of Indigo

Start at: 2019-12-11 02:47:05
End at: 2019-12-11 02:47:35
Local clock offset: 7.075 ms
Remote clock offset: -37.139 ms


# Below is generated by plot.py at 2019-12-11 05:30:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 110.72 Mbit/s
95th percentile per-packet one-way delay: 100.666 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 110.72 Mbit/s
95th percentile per-packet one-way delay: 100.666 ms
Loss rate: 2.35%
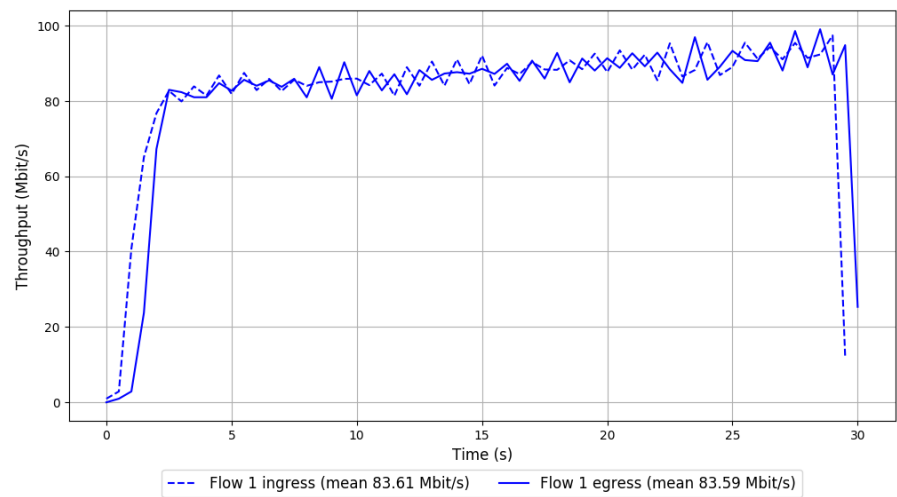```
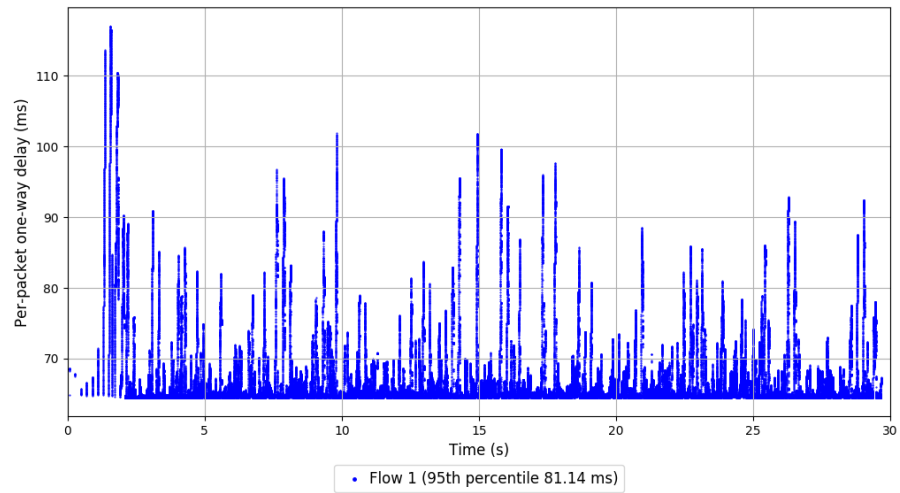
Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2019-12-11 03:18:02
End at: 2019-12-11 03:18:32
Local clock offset: 5.742 ms
Remote clock offset: -37.829 ms


# Below is generated by plot.py at 2019-12-11 05:30:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.64 Mbit/s
95th percentile per-packet one-way delay: 68.109 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 89.64 Mbit/s
95th percentile per-packet one-way delay: 68.109 ms
Loss rate: 0.10%
```

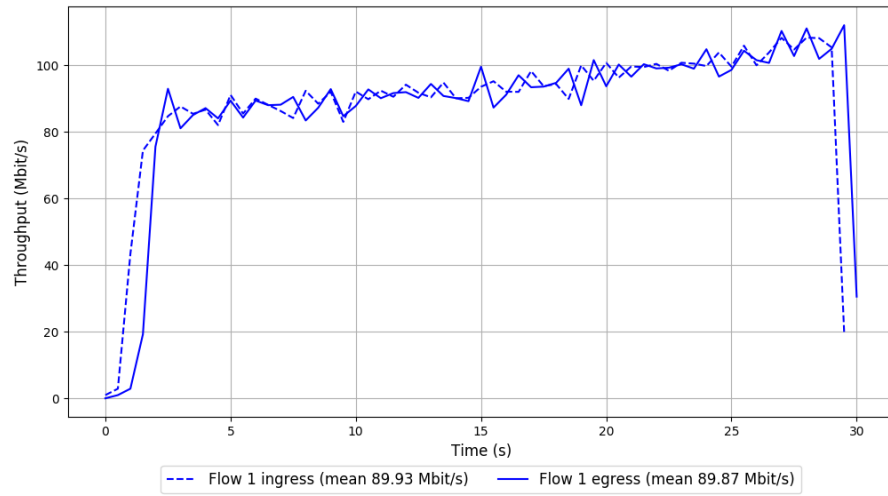Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2019-12-11 03:48:47
End at: 2019-12-11 03:49:17
Local clock offset: 5.96 ms
Remote clock offset: -44.58 ms


# Below is generated by plot.py at 2019-12-11 05:30:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.59 Mbit/s
95th percentile per-packet one-way delay: 60.826 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 83.59 Mbit/s
95th percentile per-packet one-way delay: 60.826 ms
Loss rate: 0.02%
```
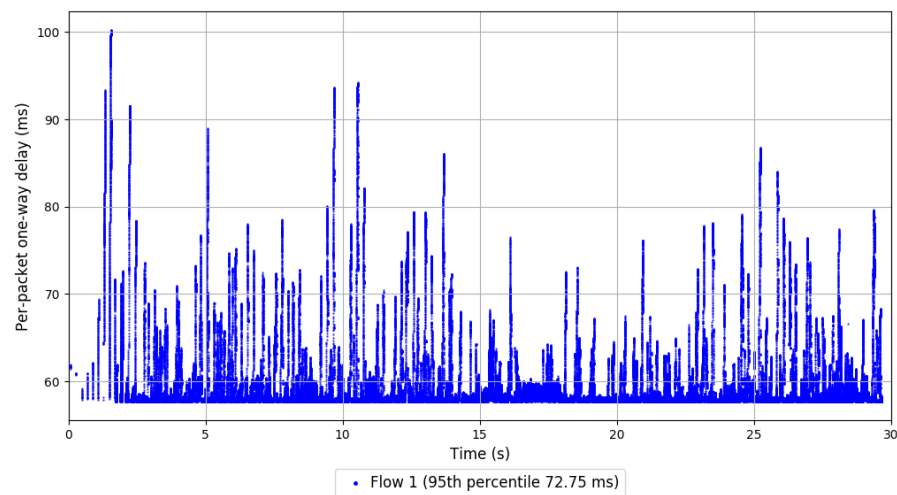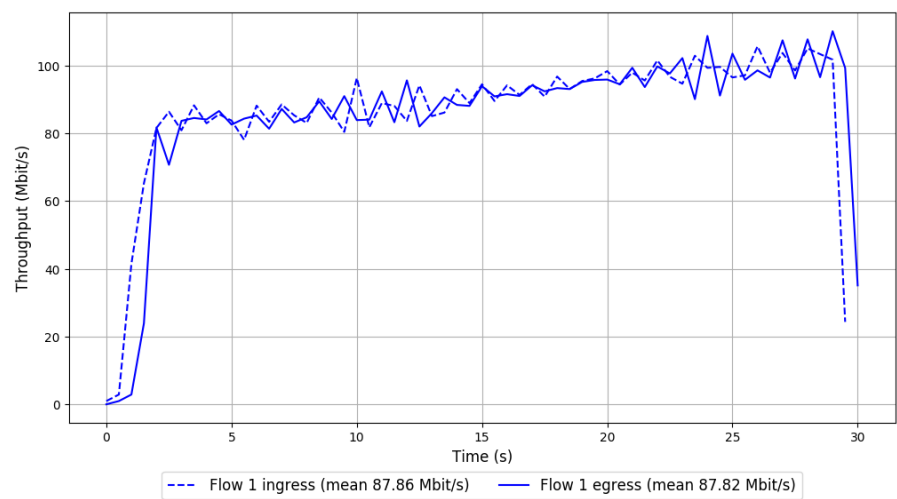
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2019-12-11 04:19:30
End at: 2019-12-11 04:20:00
Local clock offset: 1.507 ms
Remote clock offset: -36.928 ms


# Below is generated by plot.py at 2019-12-11 05:30:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 81.144 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 81.144 ms
Loss rate: 0.06%
```

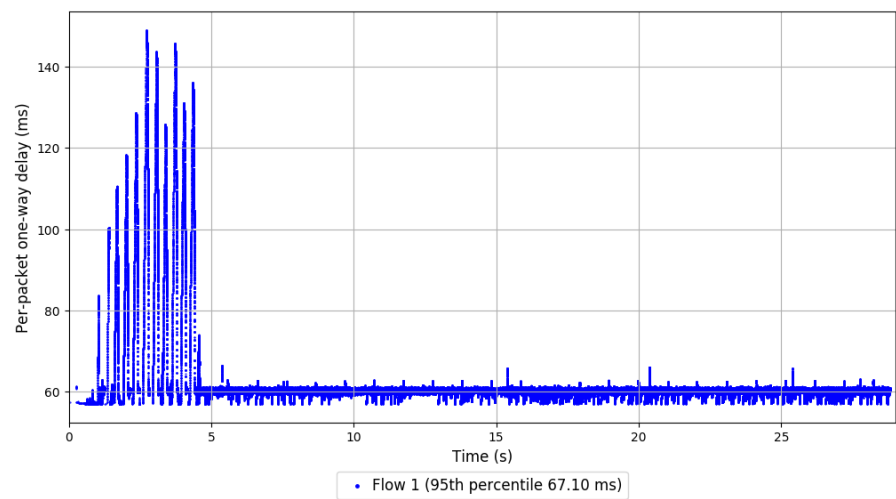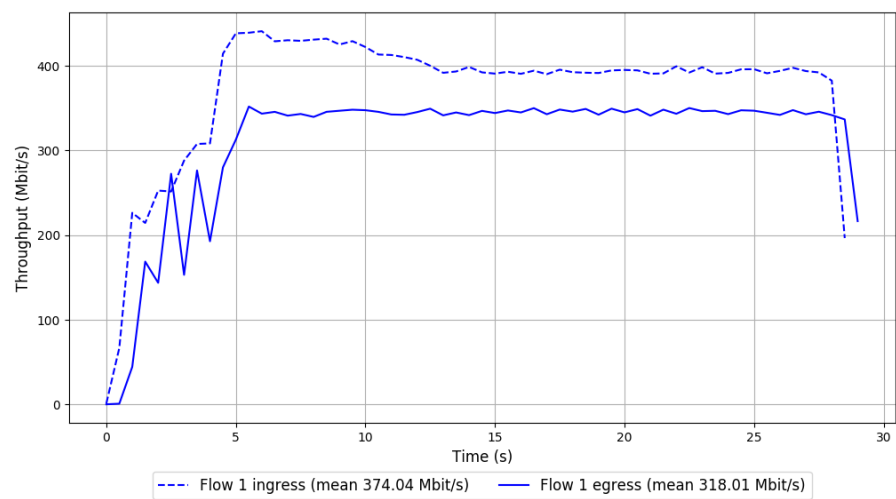Run 4: Report of Indigo — Data Link

Flow 1 ingress (mean 89.93 Mbit/s)   Flow 1 egress (mean 89.87 Mbit/s)

Flow 1 (95th percentile 81.14 ms)

```
Run 5: Statistics of Indigo

Start at: 2019-12-11 04:50:19
End at: 2019-12-11 04:50:49
Local clock offset: 3.678 ms
Remote clock offset: -39.617 ms


# Below is generated by plot.py at 2019-12-11 05:30:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.82 Mbit/s
95th percentile per-packet one-way delay: 72.749 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 87.82 Mbit/s
95th percentile per-packet one-way delay: 72.749 ms
Loss rate: 0.06%
```
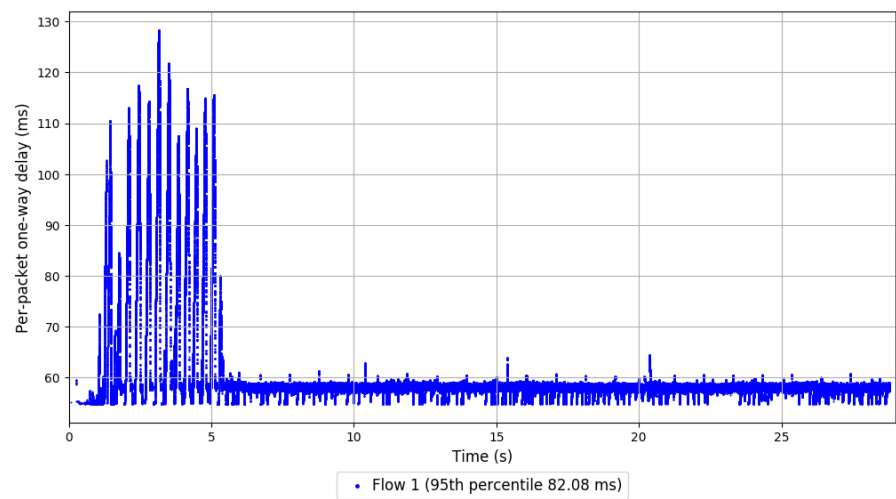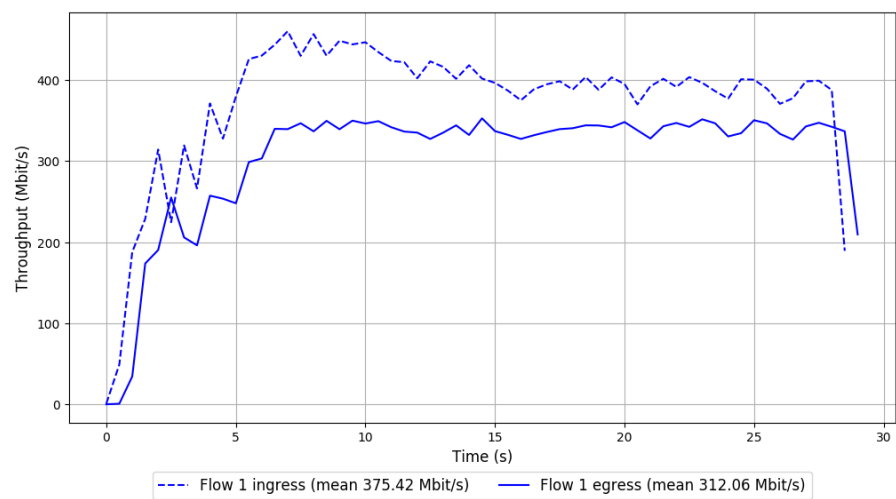
Run 5: Report of Indigo — Data Link

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-12-11 02:44:30
End at: 2019-12-11 02:45:00
Local clock offset: 6.905 ms
Remote clock offset: -37.78 ms


# Below is generated by plot.py at 2019-12-11 05:30:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 318.01 Mbit/s
95th percentile per-packet one-way delay: 67.100 ms
Loss rate: 14.97%
-- Flow 1:
Average throughput: 318.01 Mbit/s
95th percentile per-packet one-way delay: 67.100 ms
Loss rate: 14.97%
```
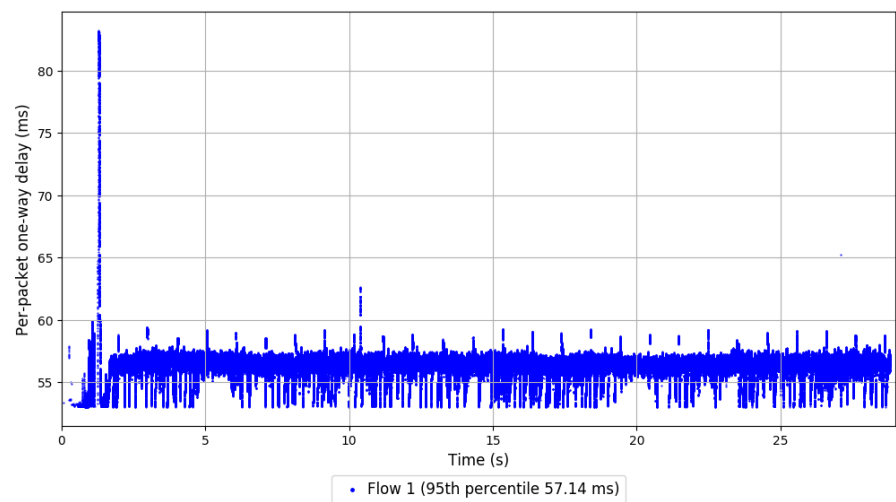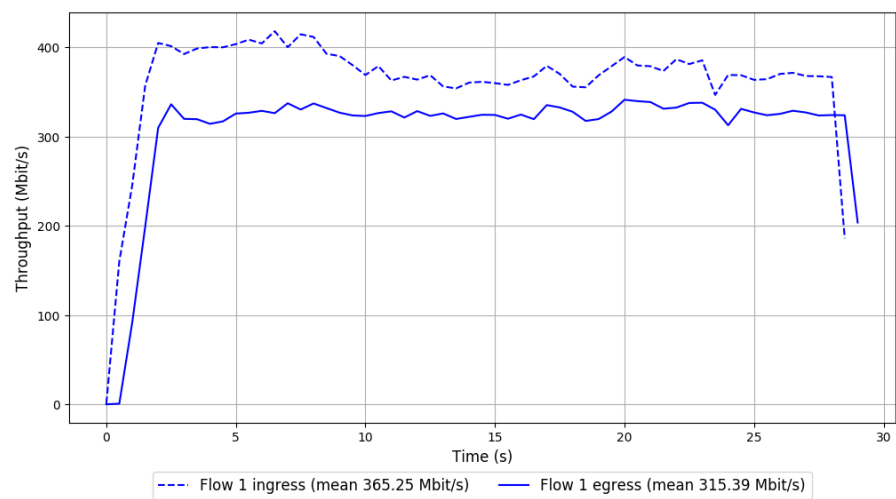
Run 1: Report of Indigo-MusesC3 — Data Link

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-12-11 03:15:22
End at: 2019-12-11 03:15:52
Local clock offset: 1.153 ms
Remote clock offset: -47.132 ms


# Below is generated by plot.py at 2019-12-11 05:30:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.06 Mbit/s
95th percentile per-packet one-way delay: 82.075 ms
Loss rate: 16.87%
-- Flow 1:
Average throughput: 312.06 Mbit/s
95th percentile per-packet one-way delay: 82.075 ms
Loss rate: 16.87%
```
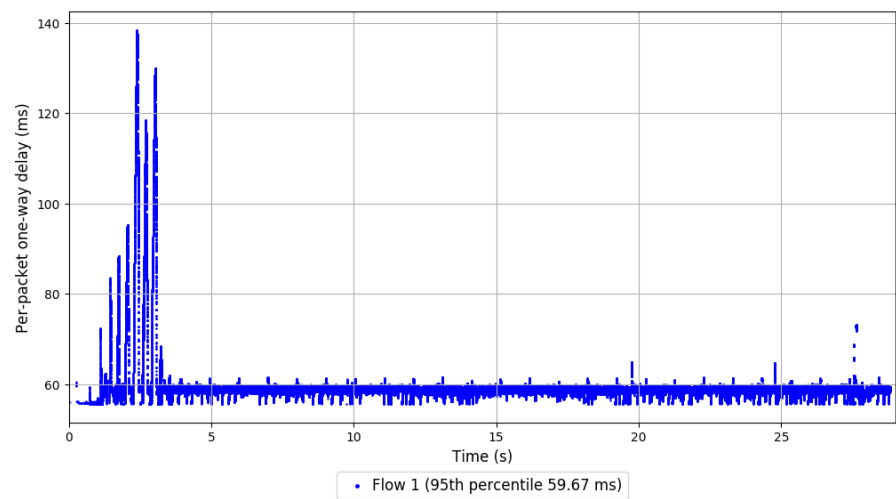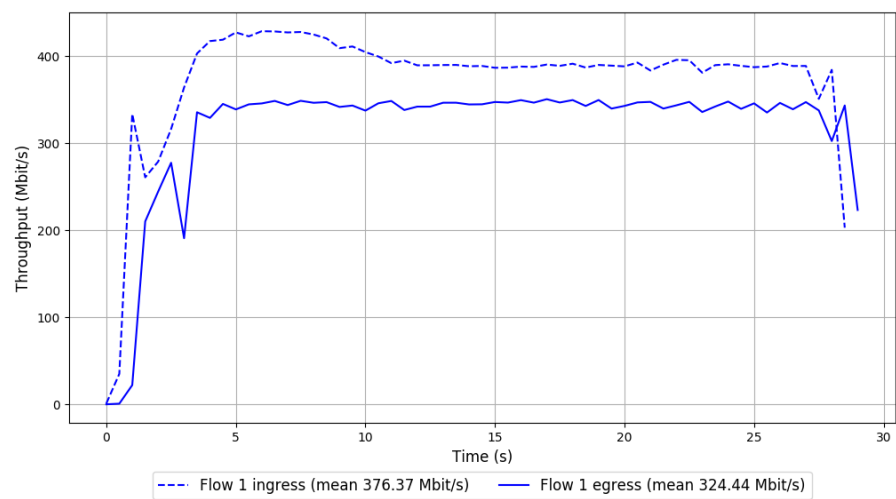
Run 2: Report of Indigo-MusesC3 — Data Link

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-12-11 03:46:12
End at: 2019-12-11 03:46:43
Local clock offset: 5.231 ms
Remote clock offset: -44.08 ms


# Below is generated by plot.py at 2019-12-11 05:30:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.39 Mbit/s
95th percentile per-packet one-way delay: 57.139 ms
Loss rate: 13.64%
-- Flow 1:
Average throughput: 315.39 Mbit/s
95th percentile per-packet one-way delay: 57.139 ms
Loss rate: 13.64%
```
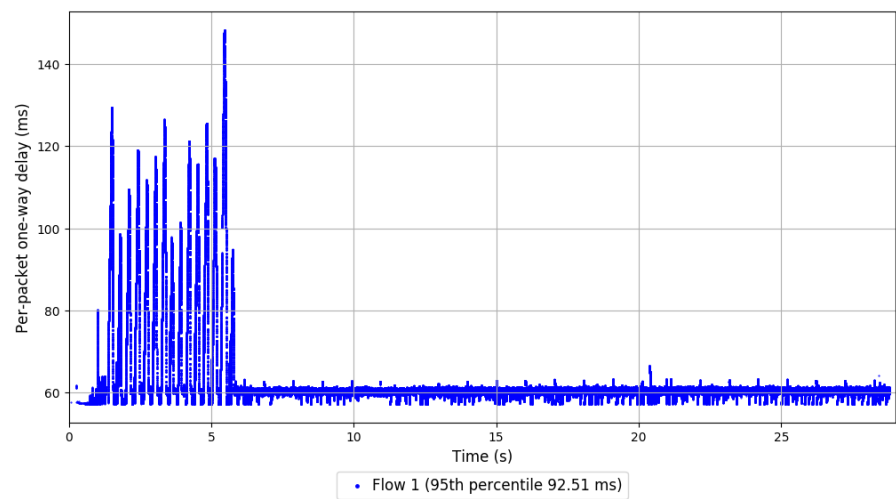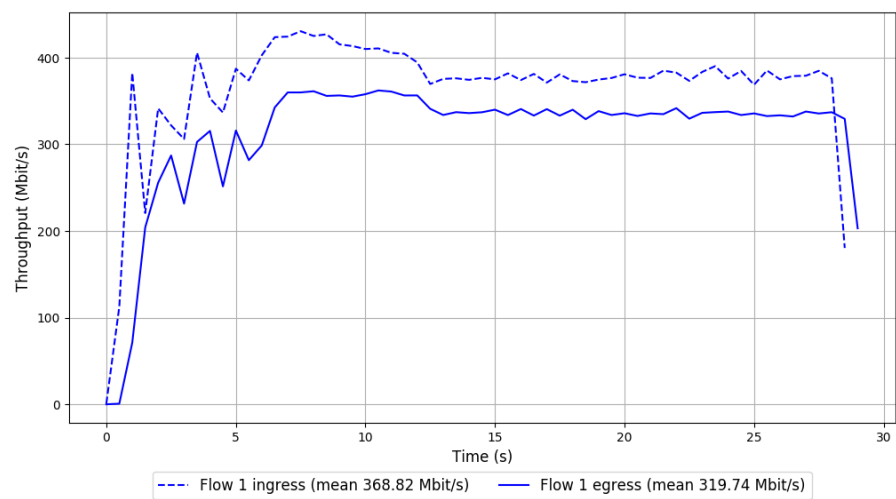
Run 3: Report of Indigo-MusesC3 — Data Link

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```
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-12-11 04:16:55
End at: 2019-12-11 04:17:25
Local clock offset: 6.754 ms
Remote clock offset: -40.423 ms


# Below is generated by plot.py at 2019-12-11 05:31:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.44 Mbit/s
95th percentile per-packet one-way delay: 59.675 ms
Loss rate: 13.79%
-- Flow 1:
Average throughput: 324.44 Mbit/s
95th percentile per-packet one-way delay: 59.675 ms
Loss rate: 13.79%
```
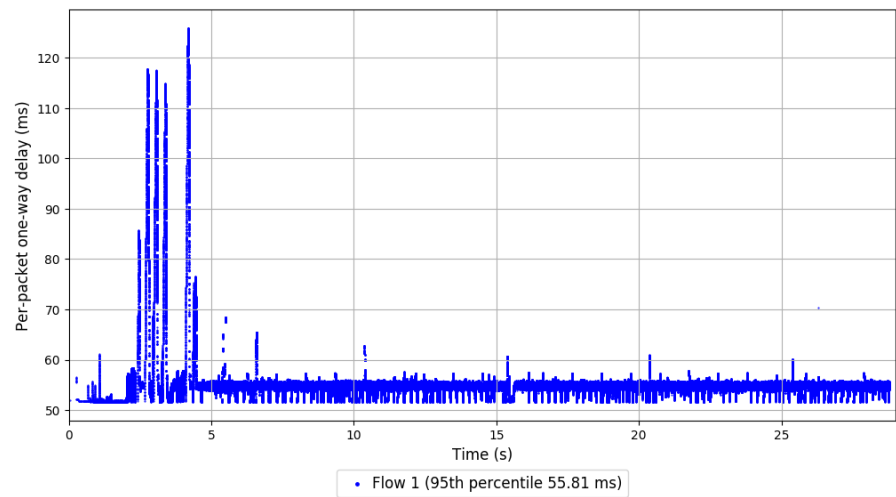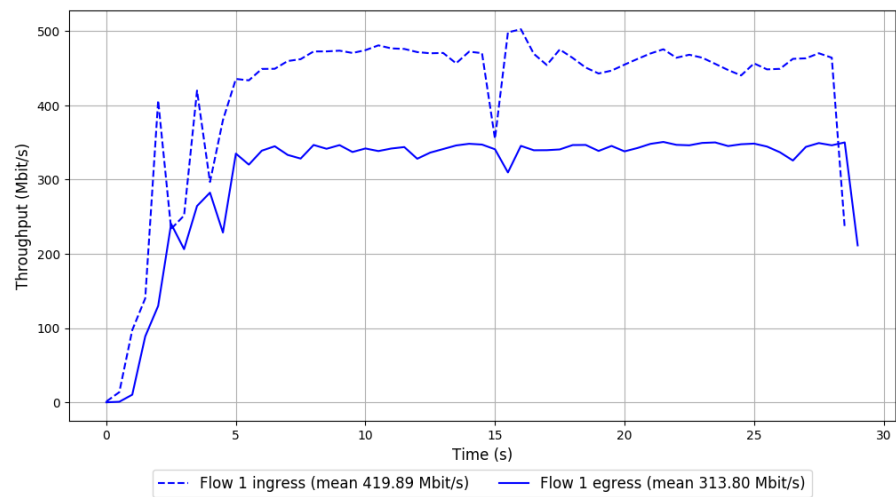
Run 4: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 376.37 Mbit/s) ---- Flow 1 egress (mean 324.44 Mbit/s) ----

Flow 1 (95th percentile 59.67 ms)

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-12-11 04:47:44
End at: 2019-12-11 04:48:14
Local clock offset: 7.012 ms
Remote clock offset: -39.209 ms


# Below is generated by plot.py at 2019-12-11 05:31:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.74 Mbit/s
95th percentile per-packet one-way delay: 92.506 ms
Loss rate: 13.30%
-- Flow 1:
Average throughput: 319.74 Mbit/s
95th percentile per-packet one-way delay: 92.506 ms
Loss rate: 13.30%
```

Run 5: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 368.82 Mbit/s) — Flow 1 egress (mean 319.74 Mbit/s)
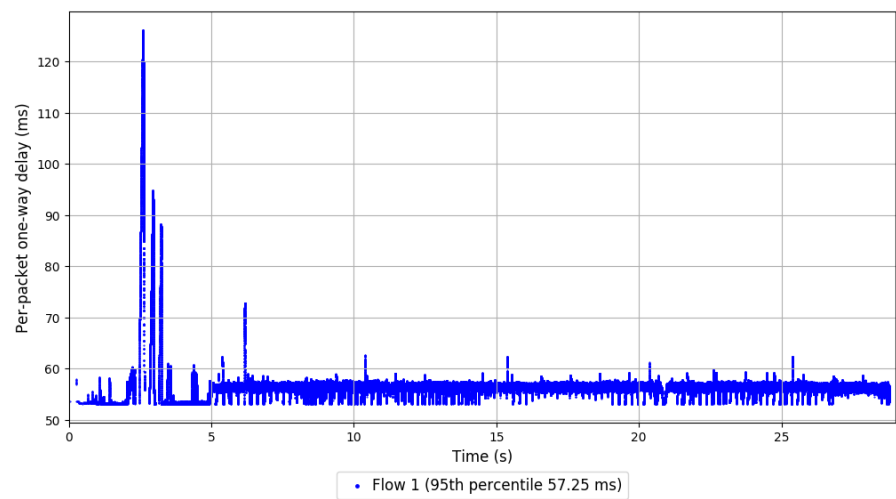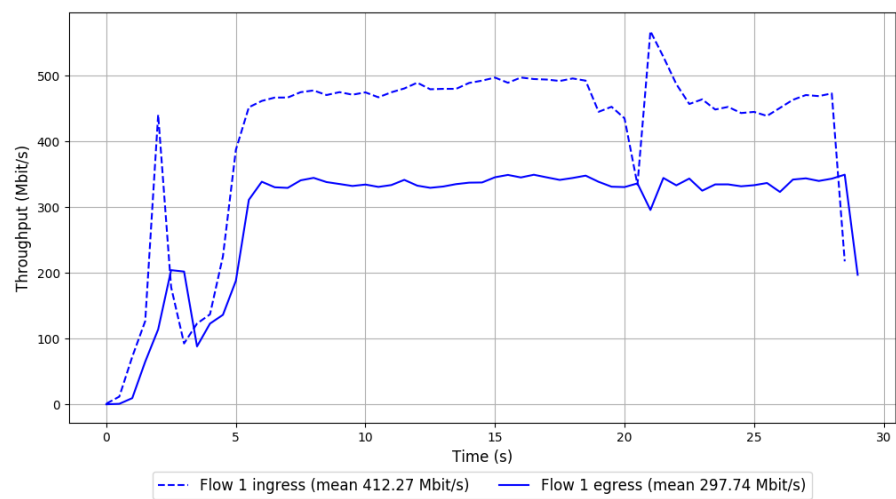

Flow 1 (95th percentile 92.51 ms)

```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-12-11 02:53:21
End at: 2019-12-11 02:53:51
Local clock offset: 6.871 ms
Remote clock offset: -43.825 ms


# Below is generated by plot.py at 2019-12-11 05:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 313.80 Mbit/s
95th percentile per-packet one-way delay: 55.806 ms
Loss rate: 25.26%
-- Flow 1:
Average throughput: 313.80 Mbit/s
95th percentile per-packet one-way delay: 55.806 ms
Loss rate: 25.26%
```
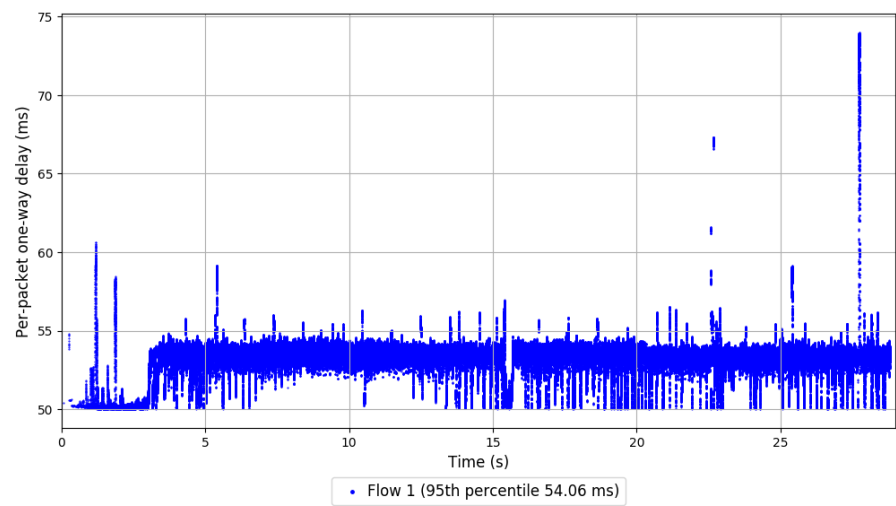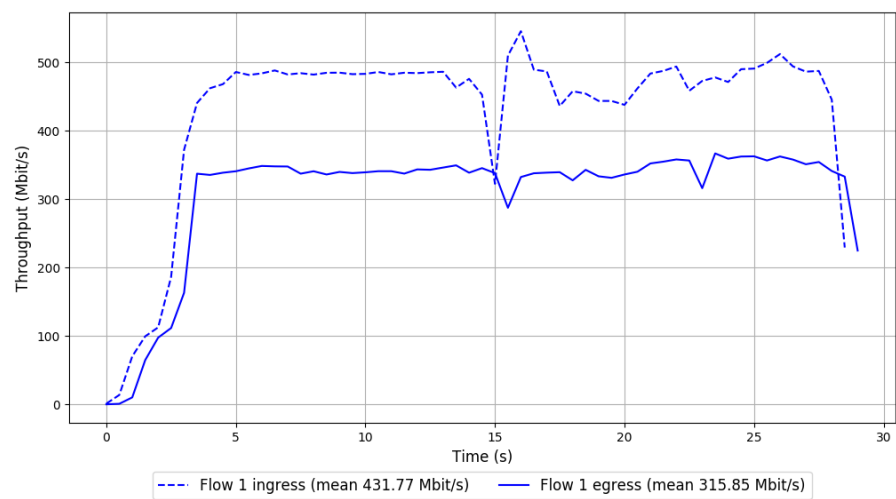
Run 1: Report of Indigo-MusesC5 — Data Link

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-12-11 03:24:15
End at: 2019-12-11 03:24:45
Local clock offset: 2.437 ms
Remote clock offset: -48.101 ms


# Below is generated by plot.py at 2019-12-11 05:34:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.74 Mbit/s
95th percentile per-packet one-way delay: 57.254 ms
Loss rate: 27.77%
-- Flow 1:
Average throughput: 297.74 Mbit/s
95th percentile per-packet one-way delay: 57.254 ms
Loss rate: 27.77%
```
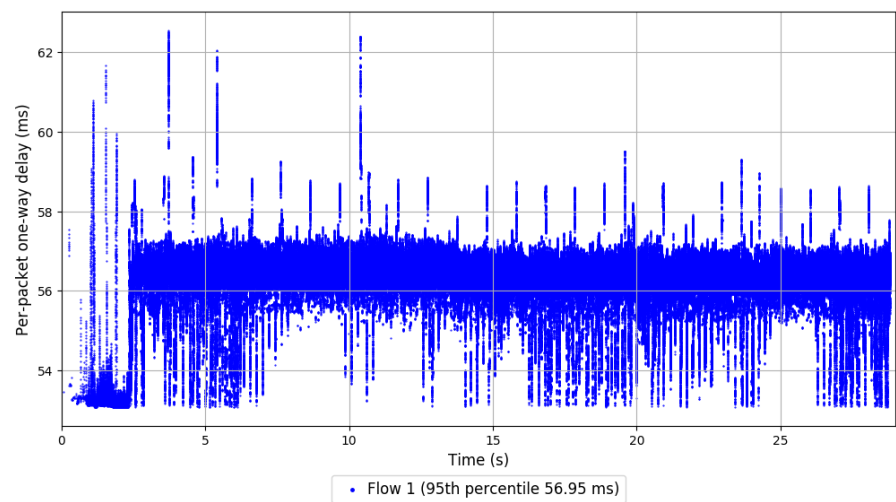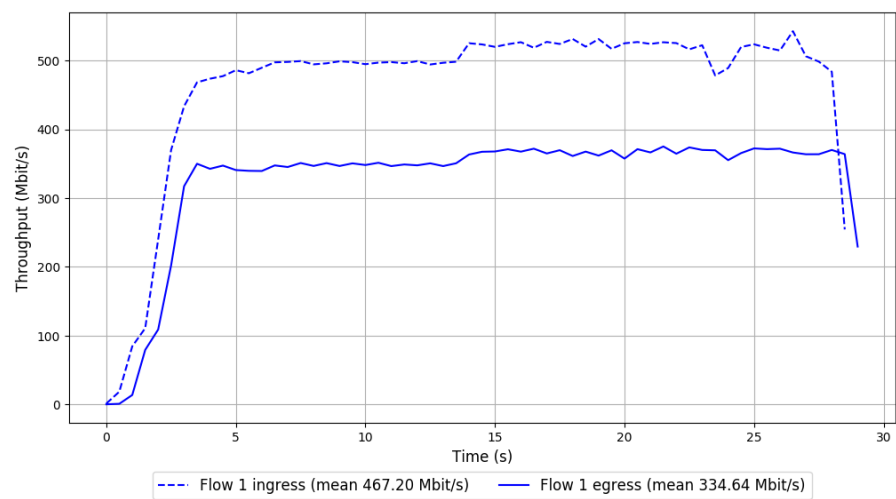
Run 2: Report of Indigo-MusesC5 — Data Link

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-12-11 03:55:01
End at: 2019-12-11 03:55:31
Local clock offset: 5.456 ms
Remote clock offset: -46.528 ms


# Below is generated by plot.py at 2019-12-11 05:34:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.85 Mbit/s
95th percentile per-packet one-way delay: 54.062 ms
Loss rate: 26.84%
-- Flow 1:
Average throughput: 315.85 Mbit/s
95th percentile per-packet one-way delay: 54.062 ms
Loss rate: 26.84%
```
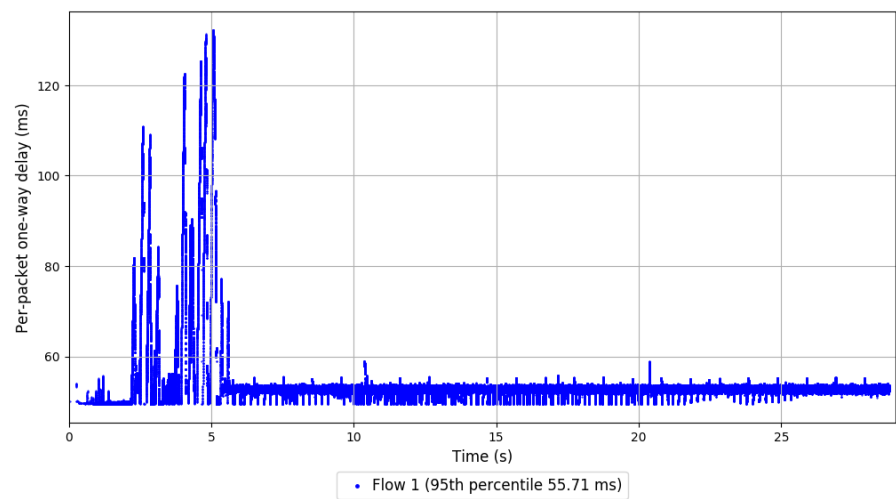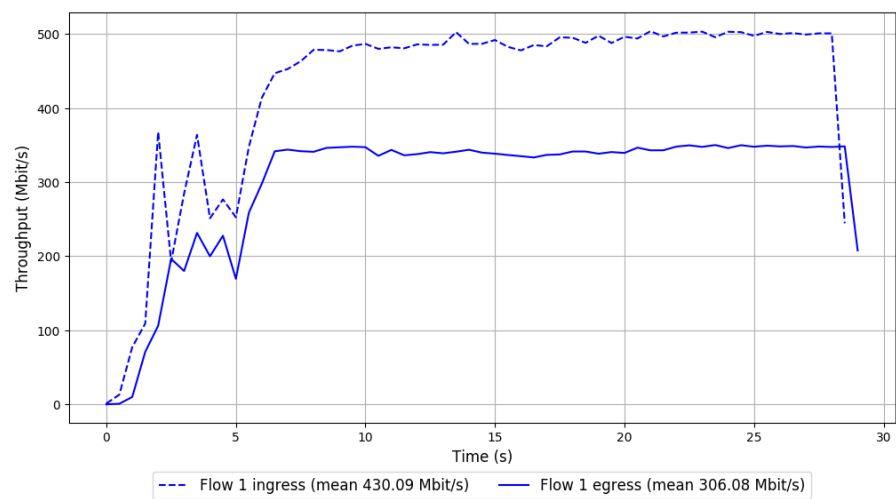
Run 3: Report of Indigo-MusesC5 — Data Link

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-12-11 04:25:43
End at: 2019-12-11 04:26:14
Local clock offset: 6.494 ms
Remote clock offset: -41.091 ms


# Below is generated by plot.py at 2019-12-11 05:34:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 334.64 Mbit/s
95th percentile per-packet one-way delay: 56.945 ms
Loss rate: 28.36%
-- Flow 1:
Average throughput: 334.64 Mbit/s
95th percentile per-packet one-way delay: 56.945 ms
Loss rate: 28.36%
```
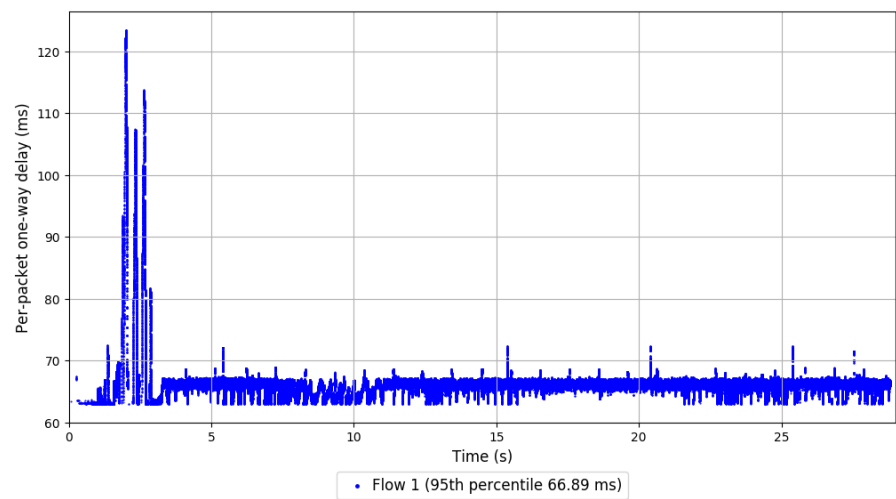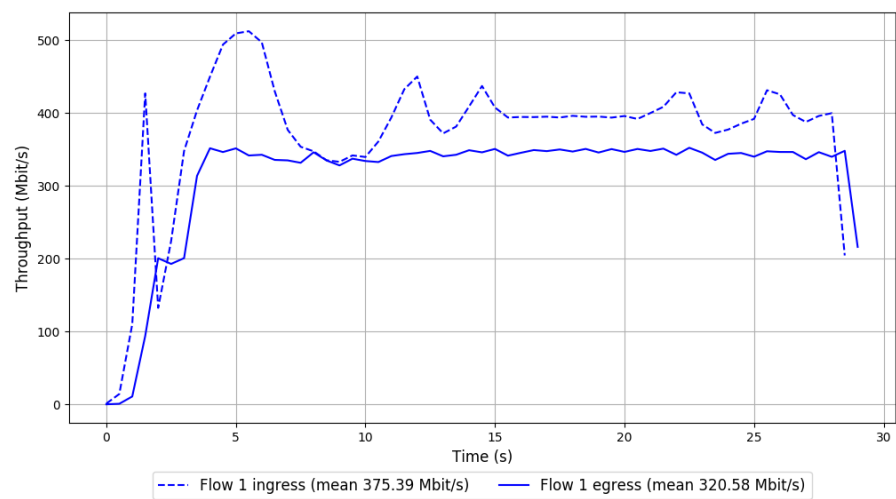
Run 4: Report of Indigo-MusesC5 — Data Link

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-12-11 04:56:33
End at: 2019-12-11 04:57:03
Local clock offset: 7.451 ms
Remote clock offset: -43.863 ms


# Below is generated by plot.py at 2019-12-11 05:34:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.08 Mbit/s
95th percentile per-packet one-way delay: 55.713 ms
Loss rate: 28.83%
-- Flow 1:
Average throughput: 306.08 Mbit/s
95th percentile per-packet one-way delay: 55.713 ms
Loss rate: 28.83%
```

Run 5: Report of Indigo-MusesC5 — Data Link

```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-12-11 02:49:32
End at: 2019-12-11 02:50:02
Local clock offset: 4.11 ms
Remote clock offset: -37.362 ms


# Below is generated by plot.py at 2019-12-11 05:34:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 320.58 Mbit/s
95th percentile per-packet one-way delay: 66.885 ms
Loss rate: 14.59%
-- Flow 1:
Average throughput: 320.58 Mbit/s
95th percentile per-packet one-way delay: 66.885 ms
Loss rate: 14.59%
```
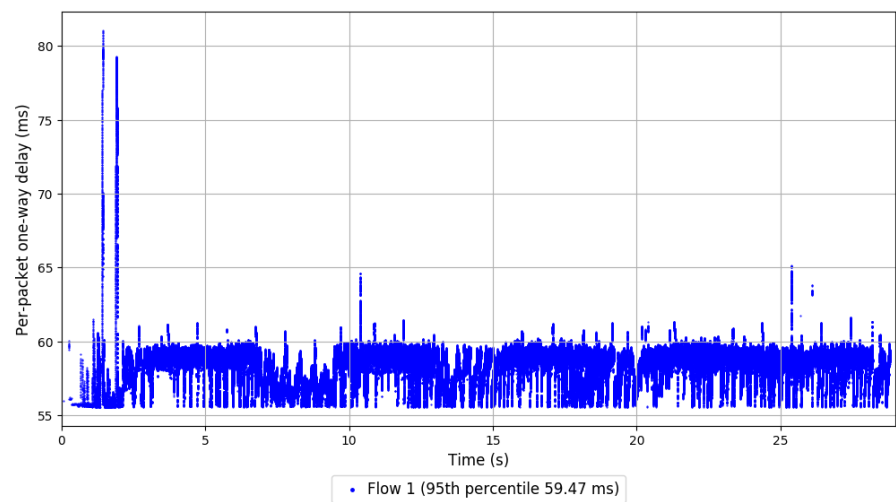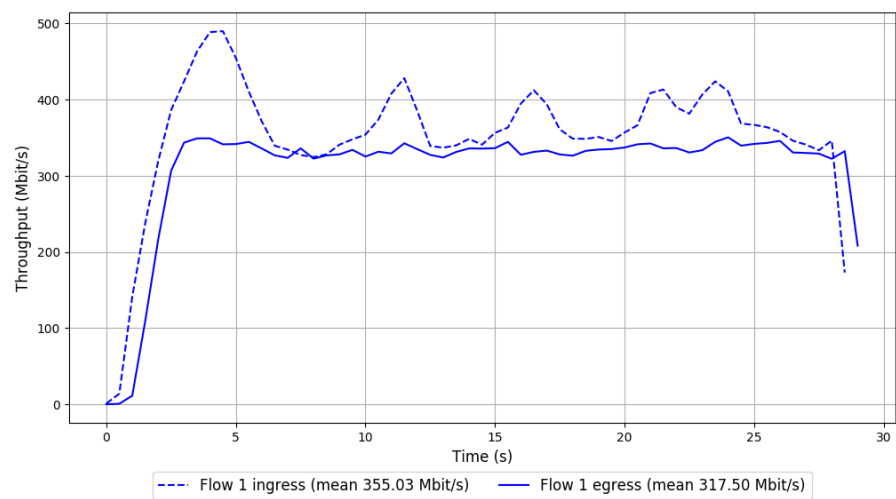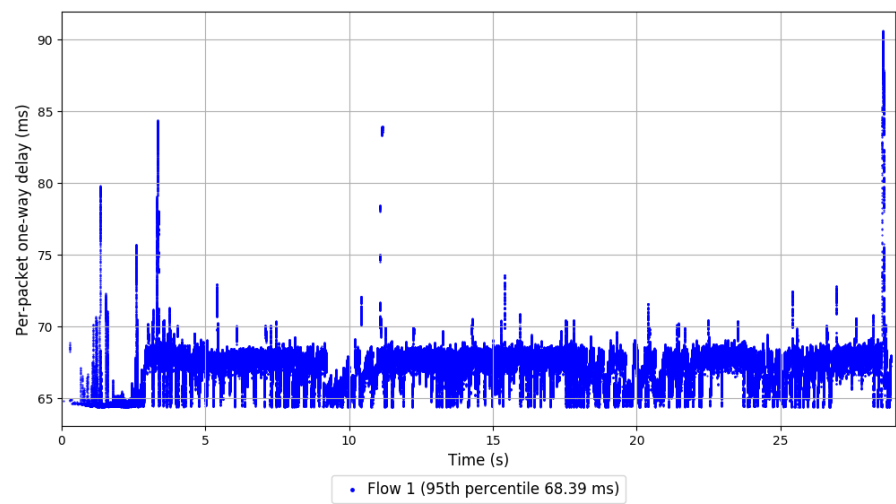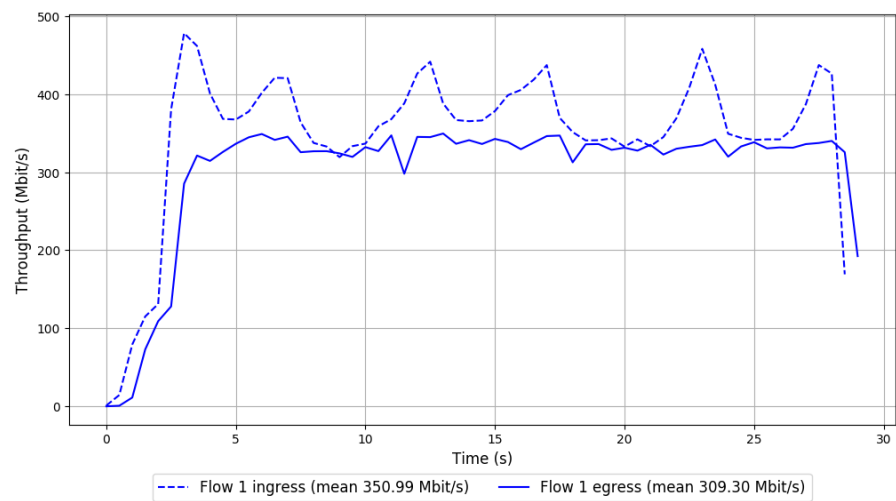
Run 1: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 375.39 Mbit/s)   Flow 1 egress (mean 320.58 Mbit/s)

Flow 1 (95th percentile 66.89 ms)

```
Run 2: Statistics of Indigo-MusesD

Start at: 2019-12-11 03:20:27
End at: 2019-12-11 03:20:57
Local clock offset: 5.947 ms
Remote clock offset: -41.847 ms


# Below is generated by plot.py at 2019-12-11 05:34:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.50 Mbit/s
95th percentile per-packet one-way delay: 59.473 ms
Loss rate: 10.56%
-- Flow 1:
Average throughput: 317.50 Mbit/s
95th percentile per-packet one-way delay: 59.473 ms
Loss rate: 10.56%
```

Run 2: Report of Indigo-MusesD — Data Link

```
Run 3: Statistics of Indigo-MusesD

Start at: 2019-12-11 03:51:13
End at: 2019-12-11 03:51:43
Local clock offset: 2.158 ms
Remote clock offset: -35.973 ms


# Below is generated by plot.py at 2019-12-11 05:35:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.30 Mbit/s
95th percentile per-packet one-way delay: 68.389 ms
Loss rate: 11.87%
-- Flow 1:
Average throughput: 309.30 Mbit/s
95th percentile per-packet one-way delay: 68.389 ms
Loss rate: 11.87%
```
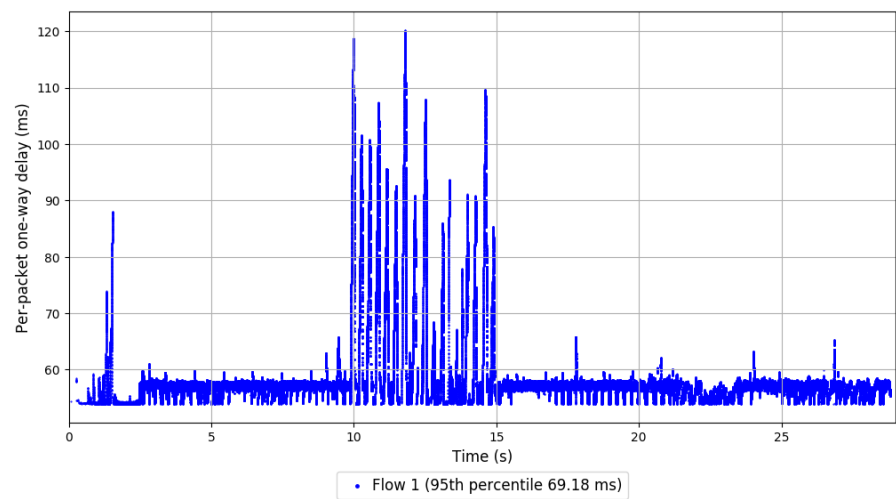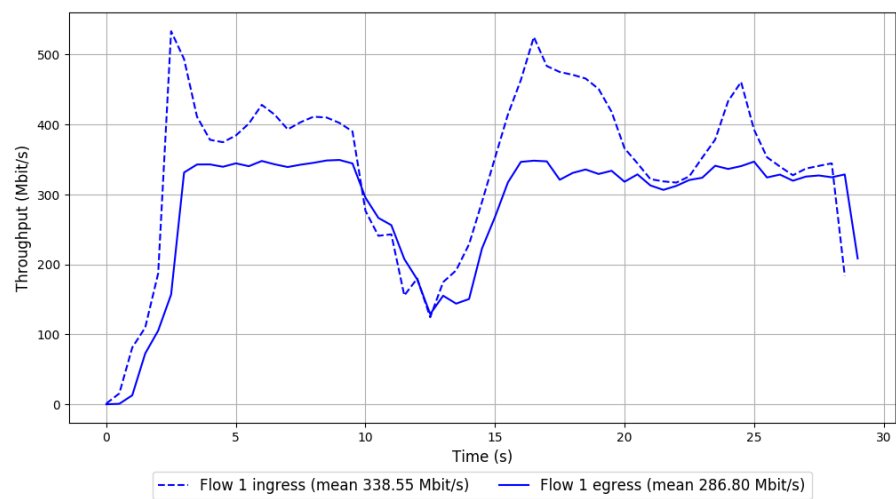
Run 3: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 350.99 Mbit/s)   Flow 1 egress (mean 309.30 Mbit/s)

Flow 1 (95th percentile 68.39 ms)

```
Run 4: Statistics of Indigo-MusesD

Start at: 2019-12-11 04:21:56
End at: 2019-12-11 04:22:26
Local clock offset: 2.482 ms
Remote clock offset: -44.064 ms


# Below is generated by plot.py at 2019-12-11 05:35:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 286.80 Mbit/s
95th percentile per-packet one-way delay: 69.176 ms
Loss rate: 15.28%
-- Flow 1:
Average throughput: 286.80 Mbit/s
95th percentile per-packet one-way delay: 69.176 ms
Loss rate: 15.28%
```

Run 4: Report of Indigo-MusesD — Data Link

```
Run 5: Statistics of Indigo-MusesD

Start at: 2019-12-11 04:52:44
End at: 2019-12-11 04:53:14
Local clock offset: 6.772 ms
Remote clock offset: -36.343 ms


# Below is generated by plot.py at 2019-12-11 05:38:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.98 Mbit/s
95th percentile per-packet one-way delay: 61.478 ms
Loss rate: 12.88%
-- Flow 1:
Average throughput: 317.98 Mbit/s
95th percentile per-packet one-way delay: 61.478 ms
Loss rate: 12.88%
```
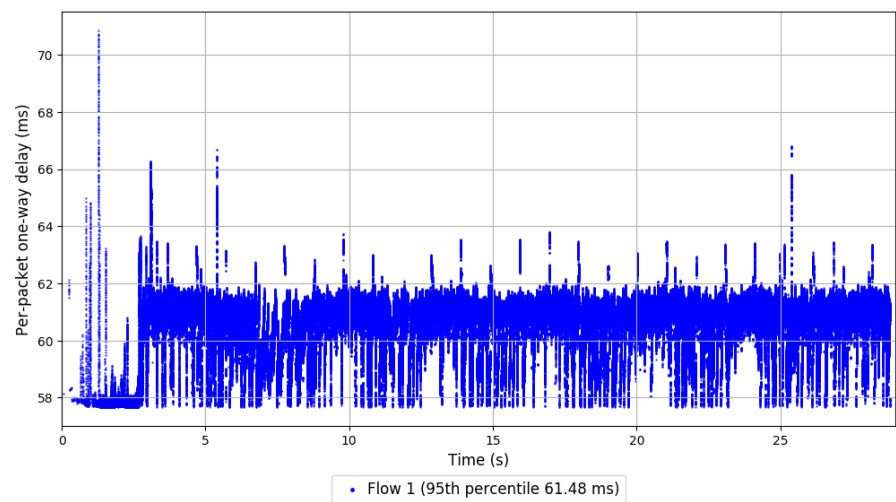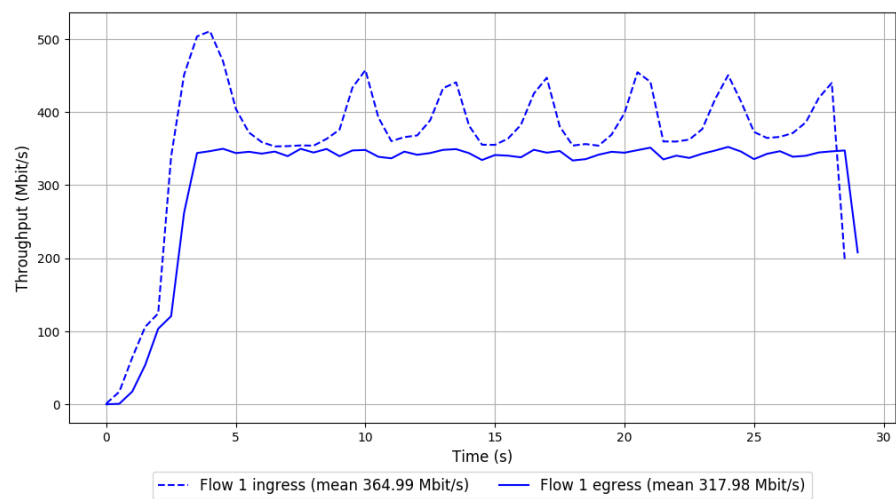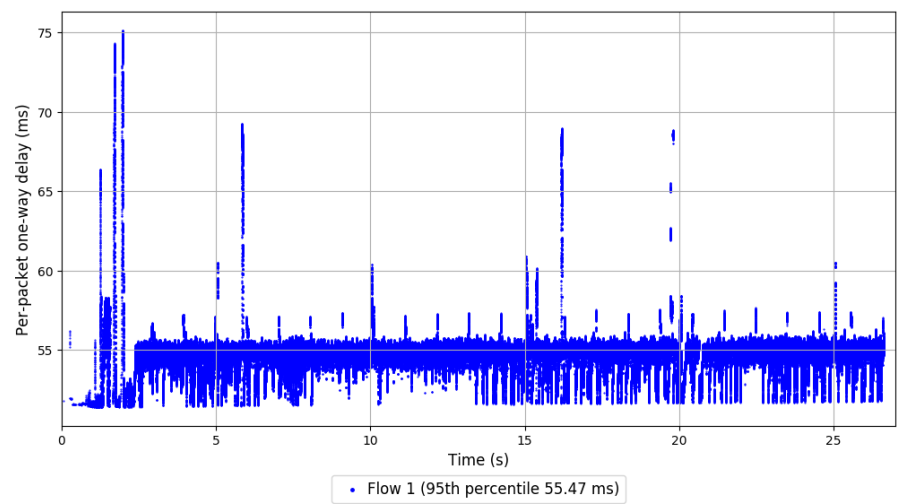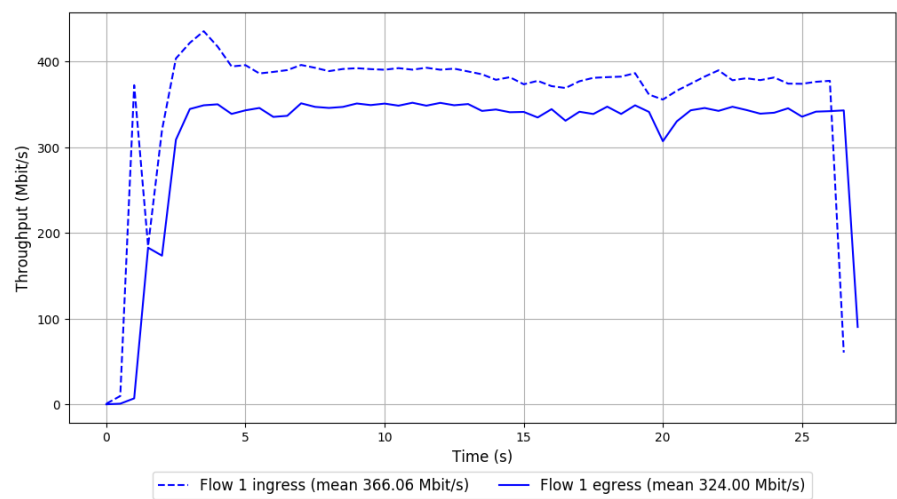
Run 5: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 364.99 Mbit/s)   Flow 1 egress (mean 317.98 Mbit/s)
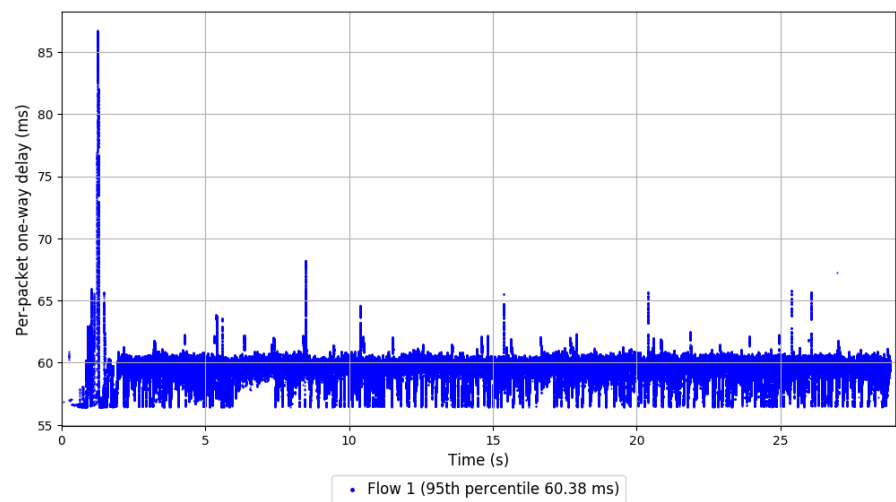

Flow 1 (95th percentile 61.48 ms)

```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-12-11 02:43:05
End at: 2019-12-11 02:43:35
Local clock offset: 4.702 ms
Remote clock offset: -44.697 ms


# Below is generated by plot.py at 2019-12-11 05:38:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.00 Mbit/s
95th percentile per-packet one-way delay: 55.474 ms
Loss rate: 11.48%
-- Flow 1:
Average throughput: 324.00 Mbit/s
95th percentile per-packet one-way delay: 55.474 ms
Loss rate: 11.48%
```

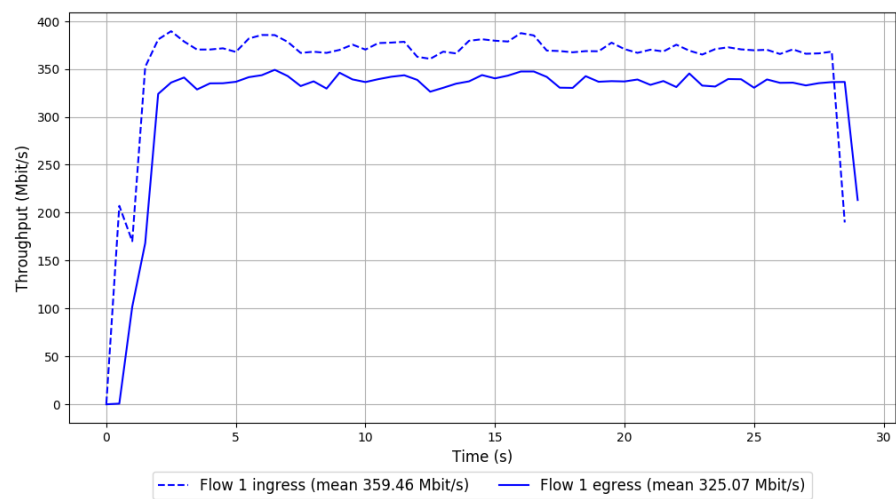Run 1: Report of Indigo-MusesT — Data Link

```
Run 2: Statistics of Indigo-MusesT

Start at: 2019-12-11 03:13:56
End at: 2019-12-11 03:14:26
Local clock offset: 6.188 ms
Remote clock offset: -40.337 ms


# Below is generated by plot.py at 2019-12-11 05:38:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.07 Mbit/s
95th percentile per-packet one-way delay: 60.381 ms
Loss rate: 9.56%
-- Flow 1:
Average throughput: 325.07 Mbit/s
95th percentile per-packet one-way delay: 60.381 ms
Loss rate: 9.56%
```
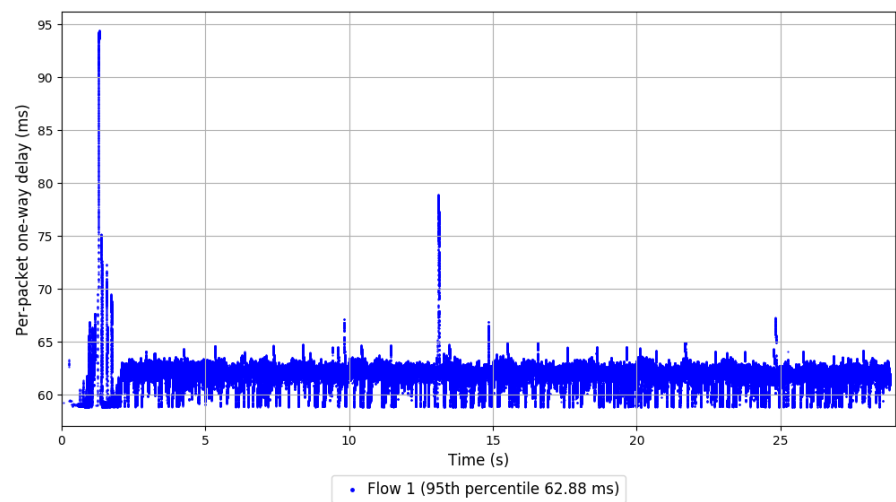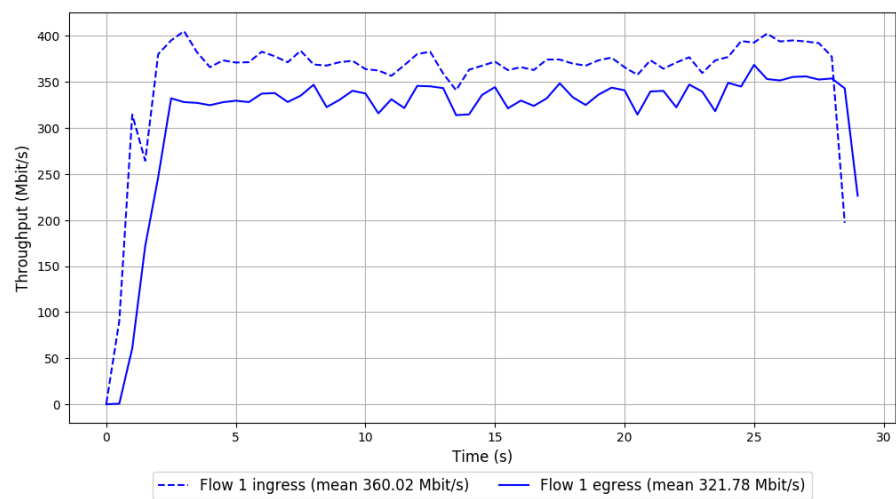
Run 2: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 359.46 Mbit/s)   Flow 1 egress (mean 325.07 Mbit/s)

Flow 1 (95th percentile 60.38 ms)

```
Run 3: Statistics of Indigo-MusesT

Start at: 2019-12-11 03:44:47
End at: 2019-12-11 03:45:17
Local clock offset: 0.892 ms
Remote clock offset: -40.438 ms


# Below is generated by plot.py at 2019-12-11 05:38:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 321.78 Mbit/s
95th percentile per-packet one-way delay: 62.880 ms
Loss rate: 10.61%
-- Flow 1:
Average throughput: 321.78 Mbit/s
95th percentile per-packet one-way delay: 62.880 ms
Loss rate: 10.61%
```

Run 3: Report of Indigo-MusesT — Data Link

```
Run 4: Statistics of Indigo-MusesT

Start at: 2019-12-11 04:15:30
End at: 2019-12-11 04:16:00
Local clock offset: 4.925 ms
Remote clock offset: -40.514 ms


# Below is generated by plot.py at 2019-12-11 05:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.94 Mbit/s
95th percentile per-packet one-way delay: 61.023 ms
Loss rate: 9.95%
-- Flow 1:
Average throughput: 326.94 Mbit/s
95th percentile per-packet one-way delay: 61.023 ms
Loss rate: 9.95%
```
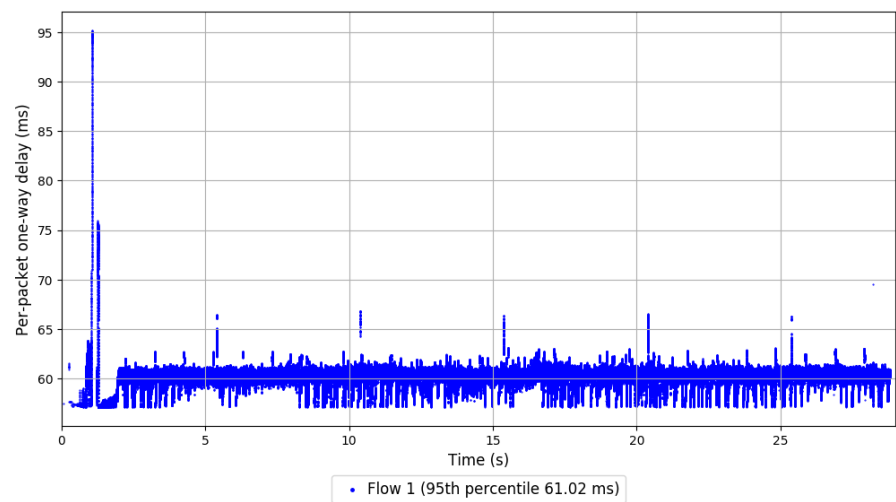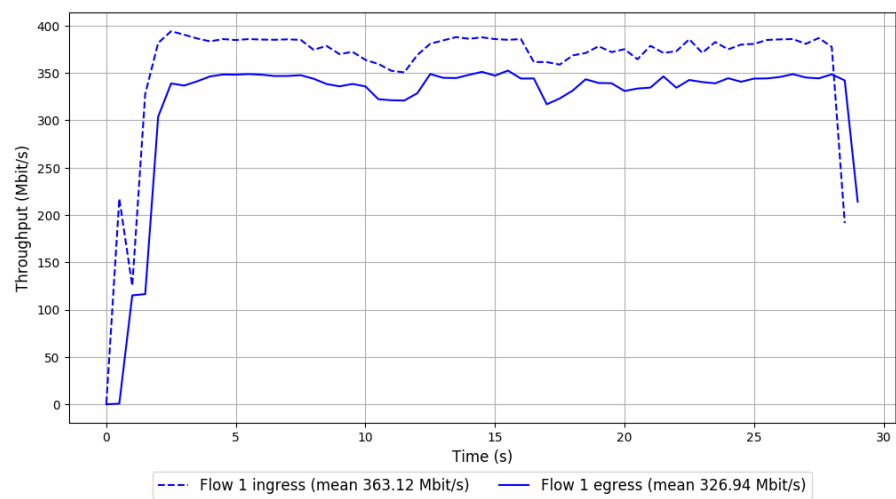
Run 4: Report of Indigo-MusesT — Data Link

```
Run 5: Statistics of Indigo-MusesT

Start at: 2019-12-11 04:46:19
End at: 2019-12-11 04:46:49
Local clock offset: 6.703 ms
Remote clock offset: -44.386 ms


# Below is generated by plot.py at 2019-12-11 05:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 299.76 Mbit/s
95th percentile per-packet one-way delay: 56.149 ms
Loss rate: 11.43%
-- Flow 1:
Average throughput: 299.76 Mbit/s
95th percentile per-packet one-way delay: 56.149 ms
Loss rate: 11.43%
```
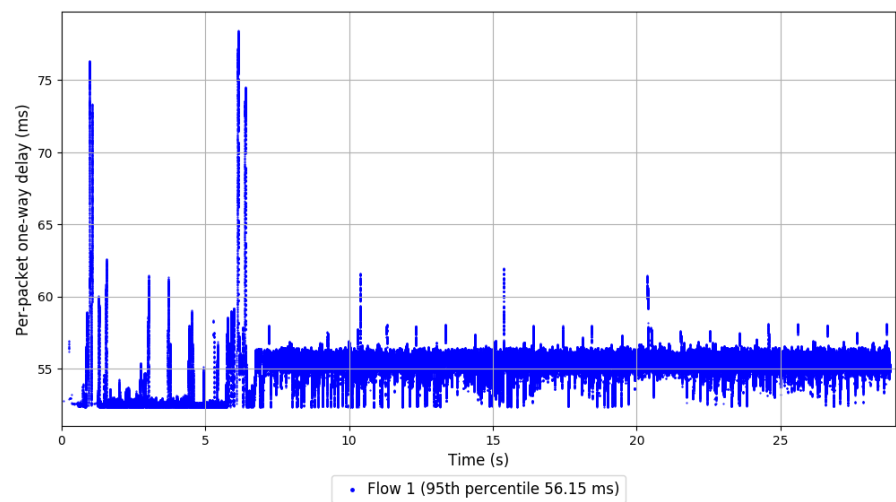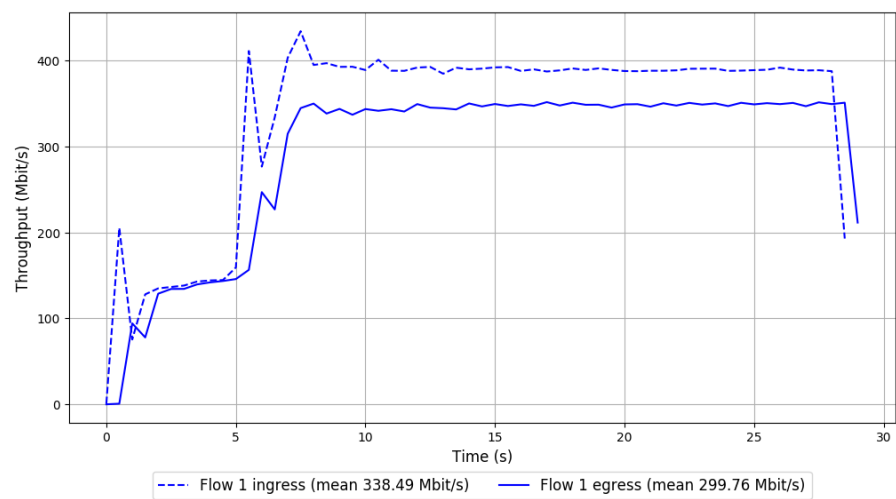
Run 5: Report of Indigo-MusesT — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2019-12-11 03:06:27
End at: 2019-12-11 03:06:57
Local clock offset: 5.238 ms
Remote clock offset: -37.104 ms


# Below is generated by plot.py at 2019-12-11 05:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 61.901 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 61.901 ms
Loss rate: 0.00%
```
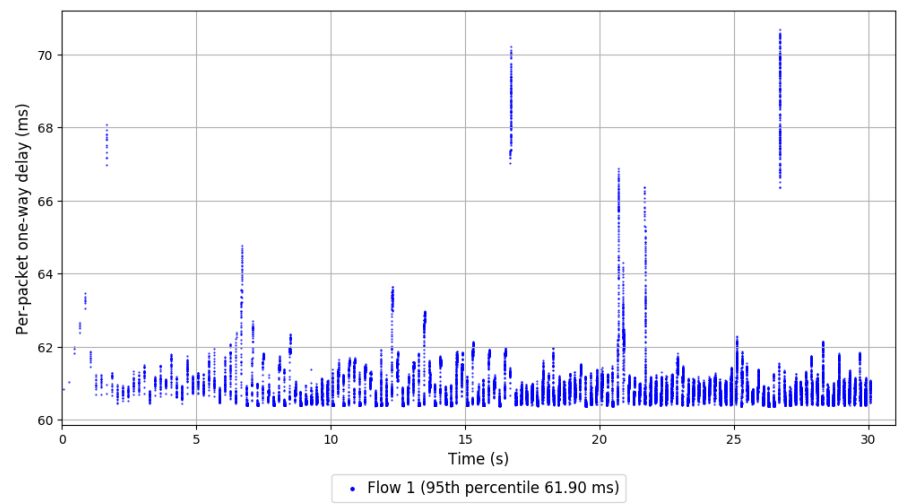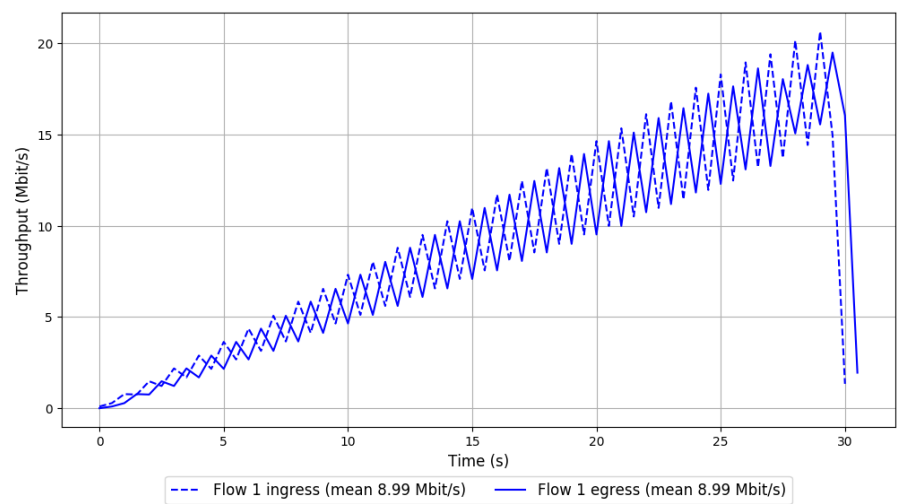
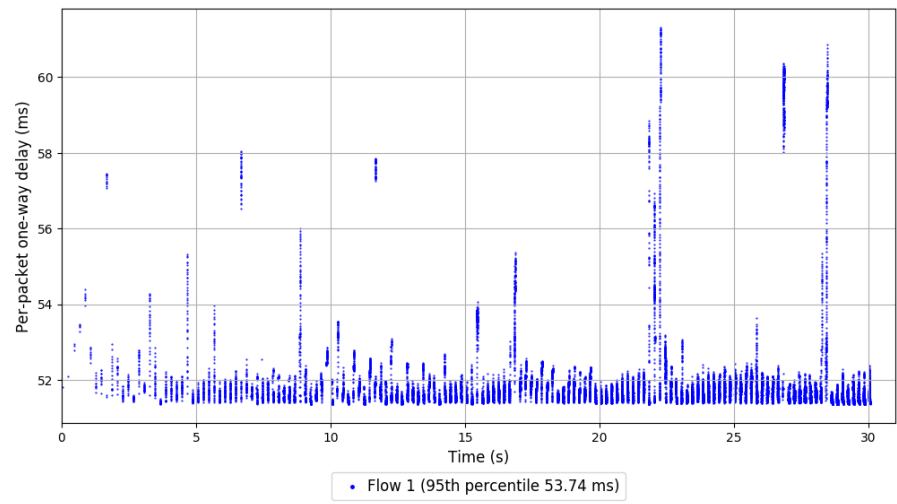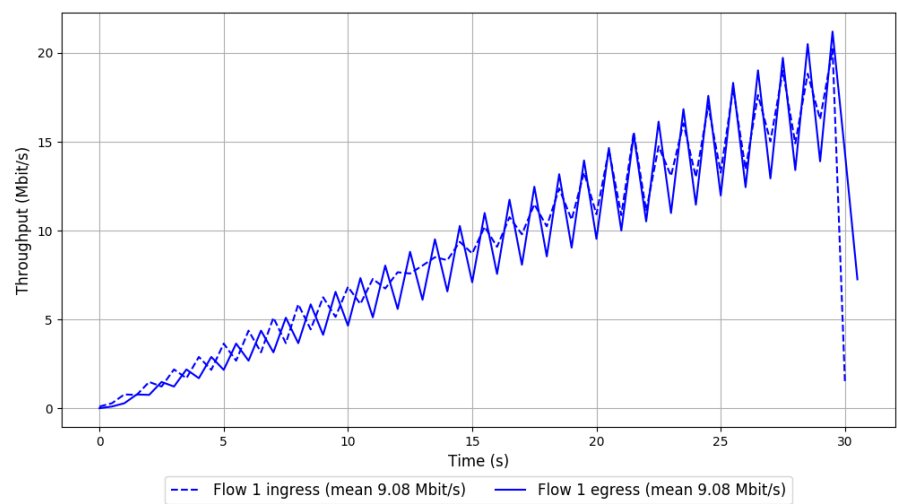## Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2019-12-11 03:37:16
End at: 2019-12-11 03:37:46
Local clock offset: 5.736 ms
Remote clock offset: -46.262 ms


# Below is generated by plot.py at 2019-12-11 05:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.08 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.08 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 0.00%
```

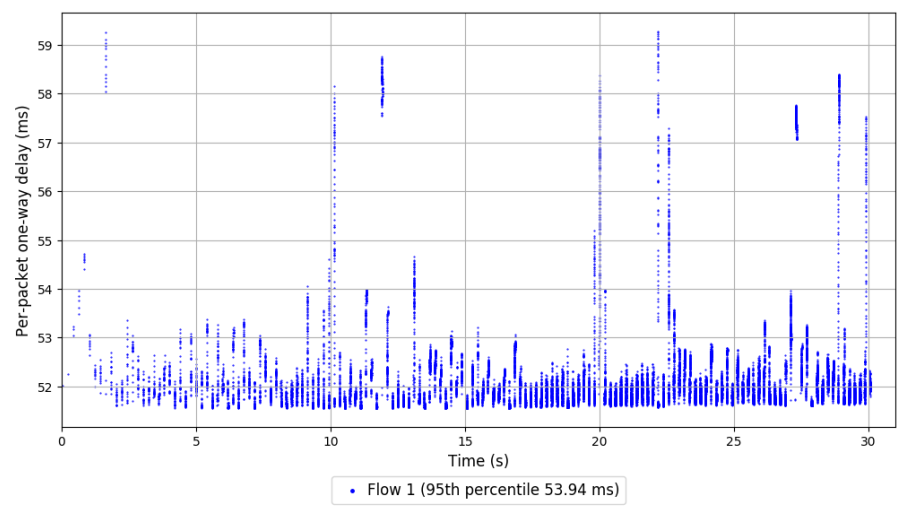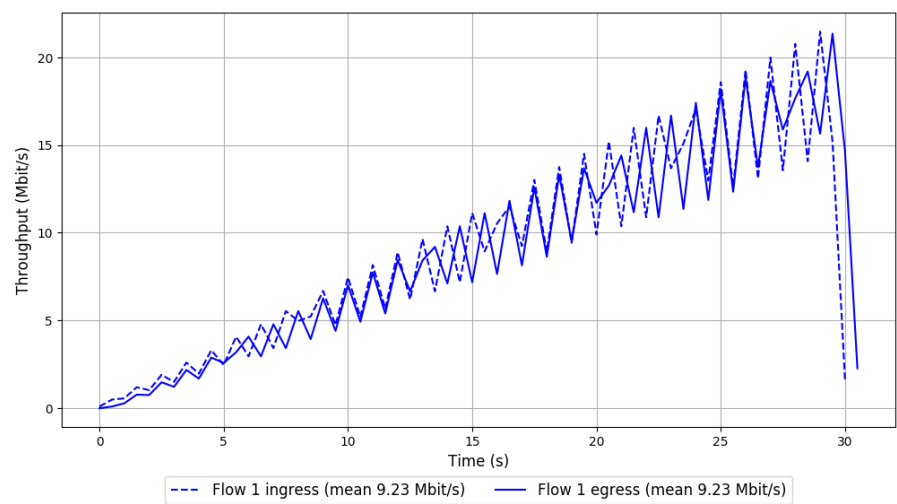Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2019-12-11 04:07:57
End at: 2019-12-11 04:08:27
Local clock offset: 0.155 ms
Remote clock offset: -47.278 ms


# Below is generated by plot.py at 2019-12-11 05:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.23 Mbit/s
95th percentile per-packet one-way delay: 53.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.23 Mbit/s
95th percentile per-packet one-way delay: 53.940 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 9.23 Mbit/s)   Flow 1 egress (mean 9.23 Mbit/s)

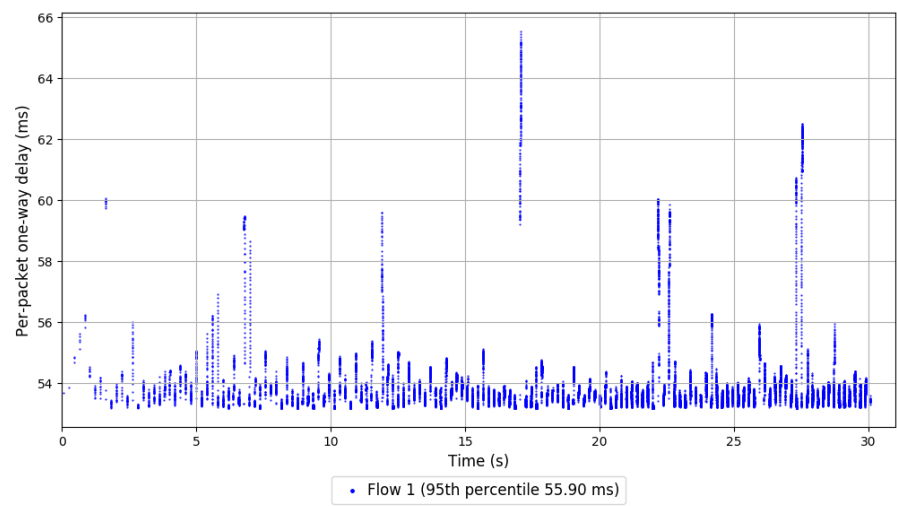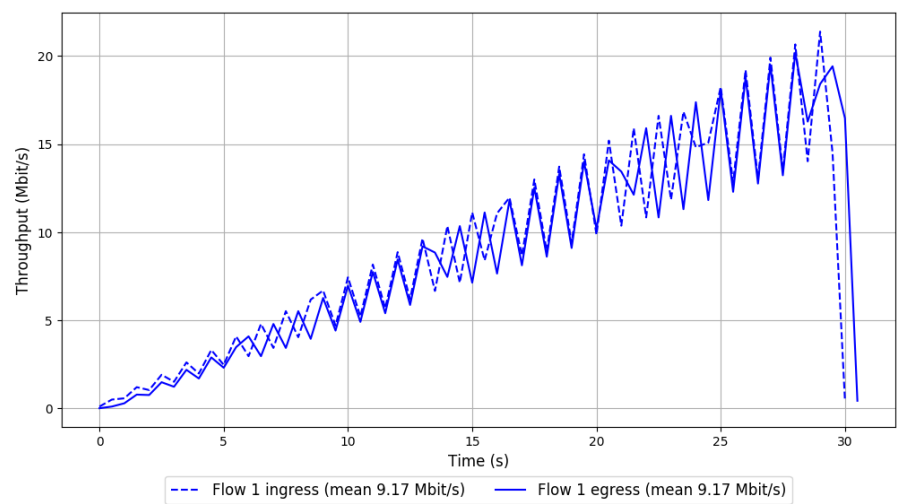Flow 1 (95th percentile 53.94 ms)

```
Run 4: Statistics of LEDBAT

Start at: 2019-12-11 04:38:47
End at: 2019-12-11 04:39:17
Local clock offset: 7.769 ms
Remote clock offset: -40.053 ms


# Below is generated by plot.py at 2019-12-11 05:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.17 Mbit/s
95th percentile per-packet one-way delay: 55.895 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.17 Mbit/s
95th percentile per-packet one-way delay: 55.895 ms
Loss rate: 0.00%
```

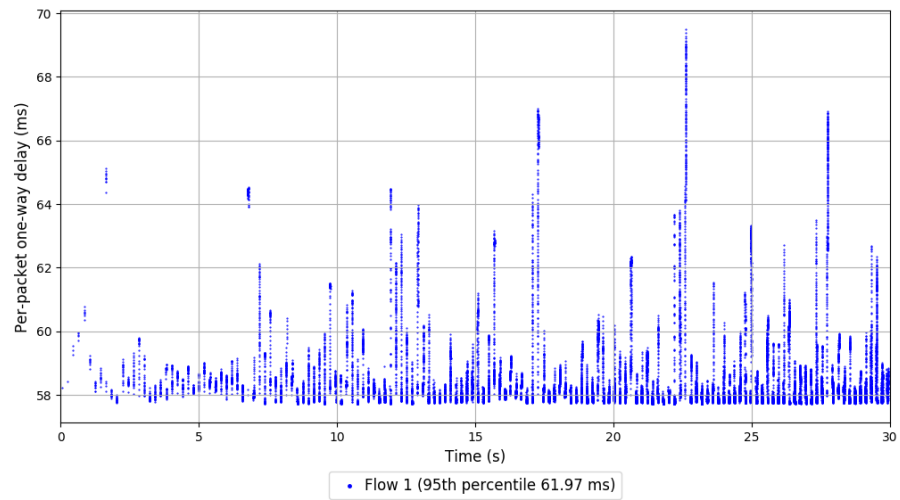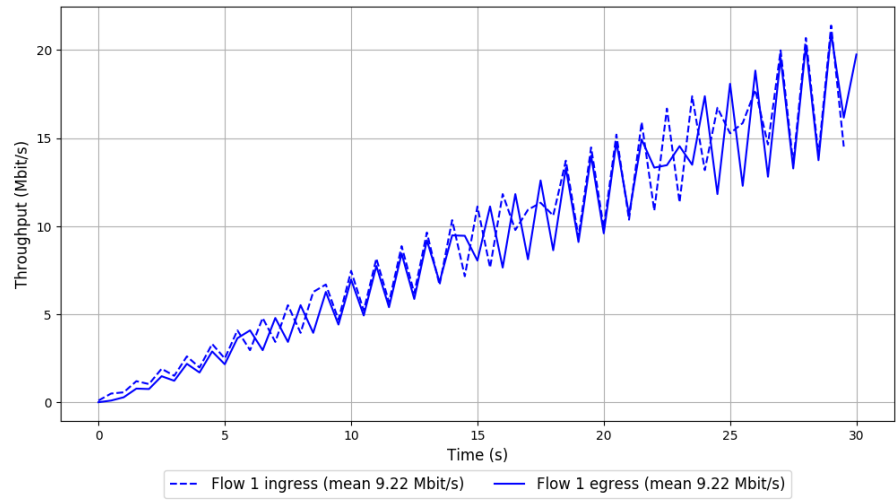## Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2019-12-11 05:09:33
End at: 2019-12-11 05:10:03
Local clock offset: 6.867 ms
Remote clock offset: -36.531 ms


# Below is generated by plot.py at 2019-12-11 05:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 61.968 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 61.968 ms
Loss rate: 0.00%
```

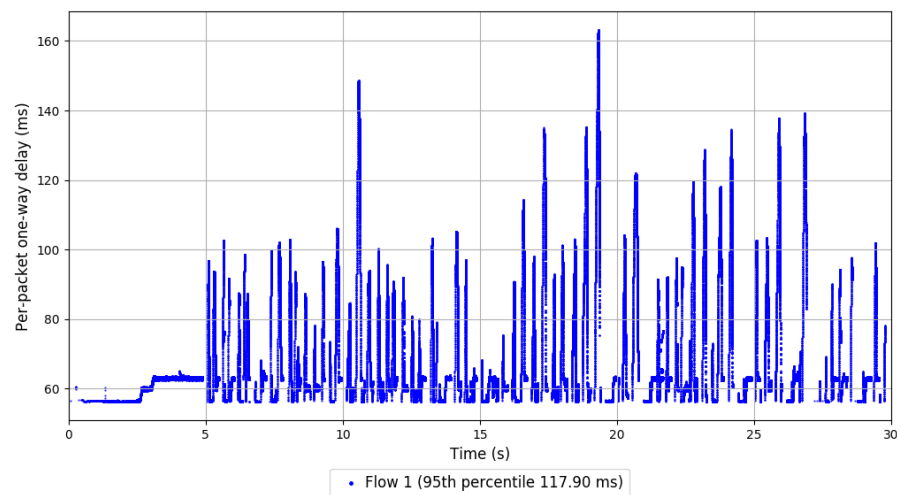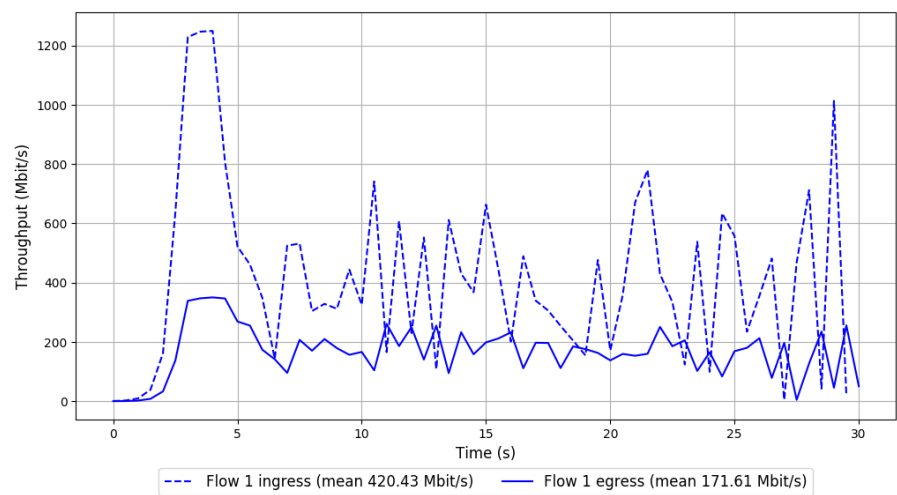Run 5: Report of LEDBAT — Data Link

```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 03:05:05
End at: 2019-12-11 03:05:35
Local clock offset: 5.751 ms
Remote clock offset: -40.497 ms


# Below is generated by plot.py at 2019-12-11 05:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.61 Mbit/s
95th percentile per-packet one-way delay: 117.902 ms
Loss rate: 59.18%
-- Flow 1:
Average throughput: 171.61 Mbit/s
95th percentile per-packet one-way delay: 117.902 ms
Loss rate: 59.18%
```

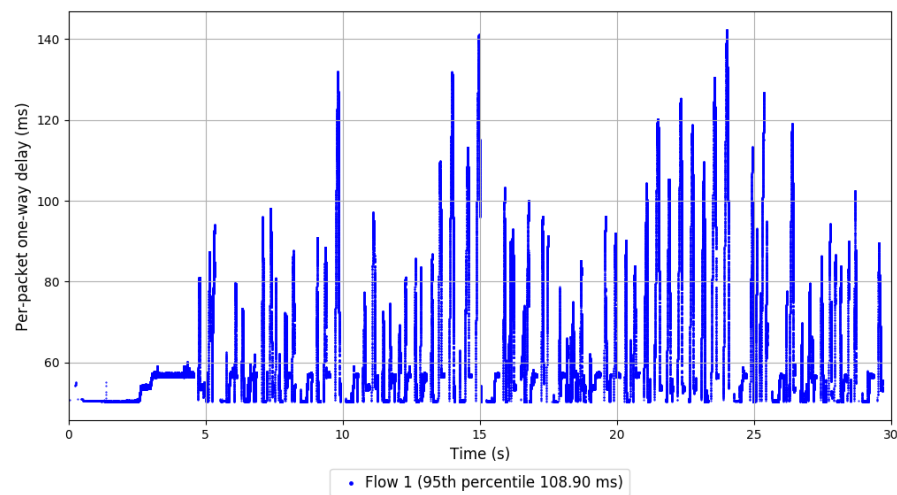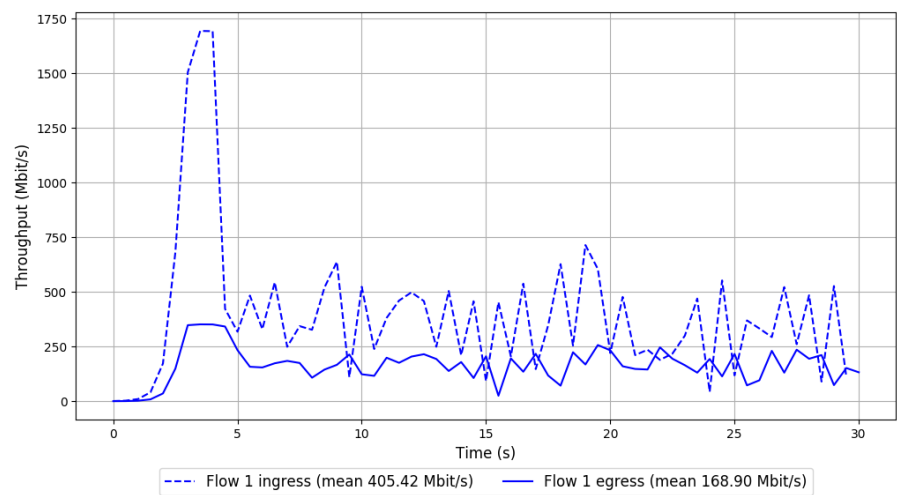Run 1: Report of Muses_DecisionTree — Data Link

```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 03:35:55
End at: 2019-12-11 03:36:25
Local clock offset: 3.45 ms
Remote clock offset: -47.39 ms


# Below is generated by plot.py at 2019-12-11 05:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.90 Mbit/s
95th percentile per-packet one-way delay: 108.900 ms
Loss rate: 58.33%
-- Flow 1:
Average throughput: 168.90 Mbit/s
95th percentile per-packet one-way delay: 108.900 ms
Loss rate: 58.33%
```

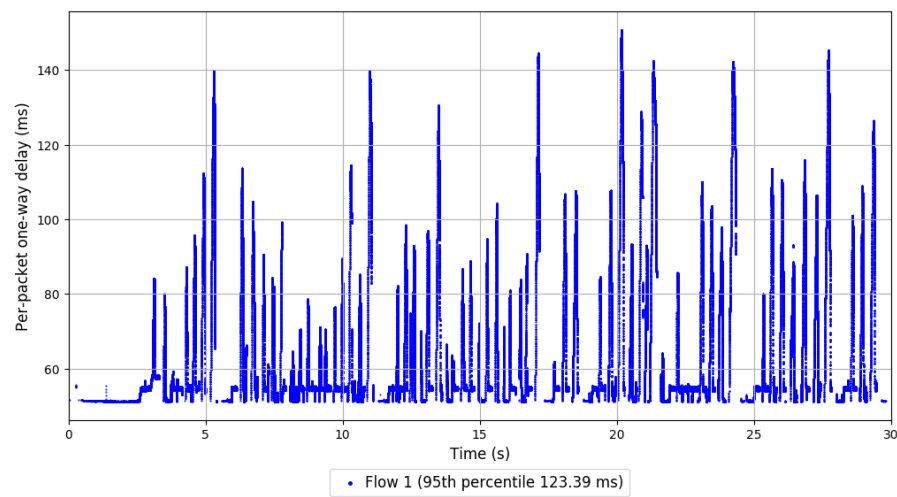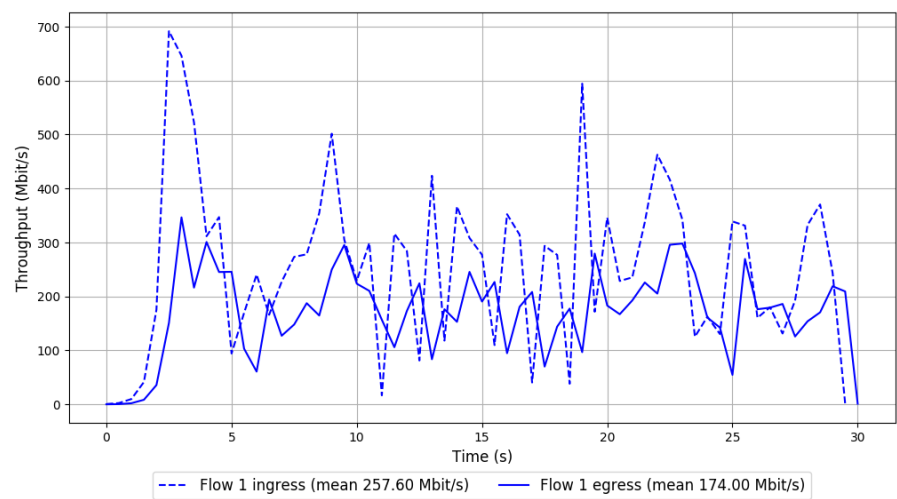Run 2: Report of Muses_DecisionTree — Data Link

```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 04:06:37
End at: 2019-12-11 04:07:07
Local clock offset: 3.843 ms
Remote clock offset: -44.009 ms


# Below is generated by plot.py at 2019-12-11 05:39:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 174.00 Mbit/s
95th percentile per-packet one-way delay: 123.386 ms
Loss rate: 32.46%
-- Flow 1:
Average throughput: 174.00 Mbit/s
95th percentile per-packet one-way delay: 123.386 ms
Loss rate: 32.46%
```

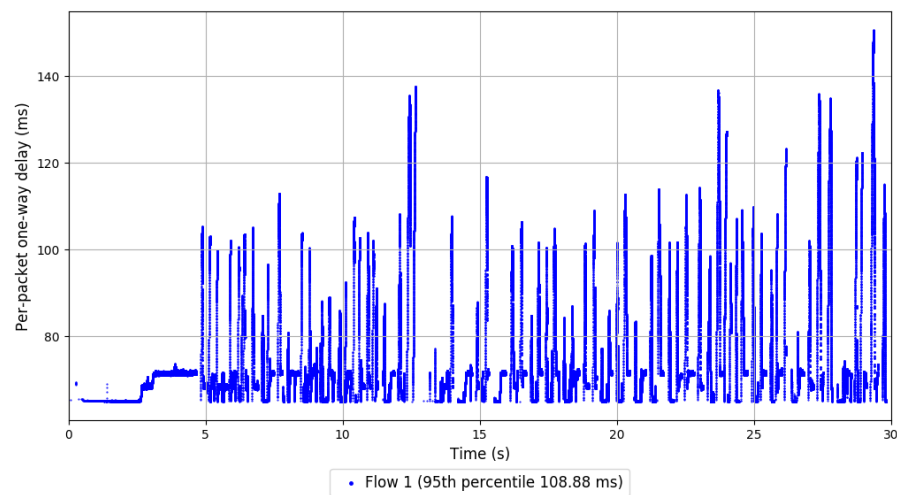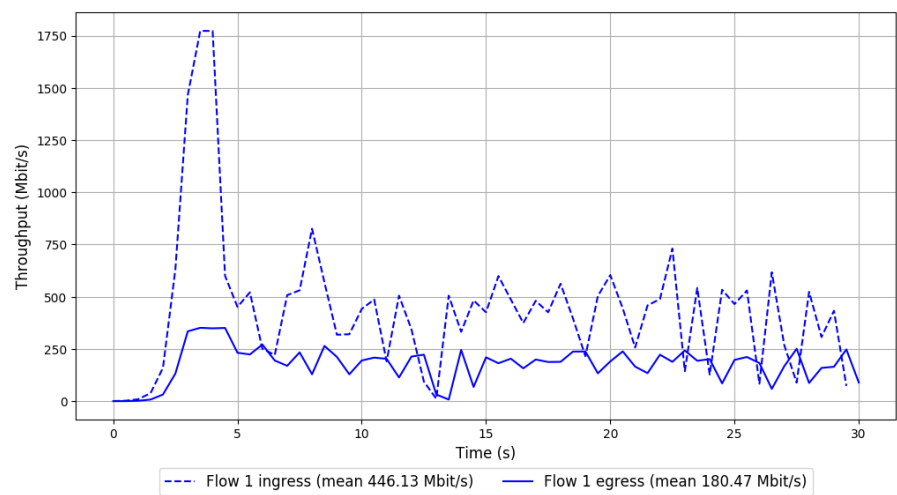Run 3: Report of Muses_DecisionTree — Data Link

```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 04:37:24
End at: 2019-12-11 04:37:54
Local clock offset: 1.84 ms
Remote clock offset: -36.691 ms


# Below is generated by plot.py at 2019-12-11 05:40:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.47 Mbit/s
95th percentile per-packet one-way delay: 108.883 ms
Loss rate: 59.55%
-- Flow 1:
Average throughput: 180.47 Mbit/s
95th percentile per-packet one-way delay: 108.883 ms
Loss rate: 59.55%
```

Run 4: Report of Muses_DecisionTree — Data Link

Flow 1 ingress (mean 446.13 Mbit/s) --- Flow 1 egress (mean 180.47 Mbit/s)

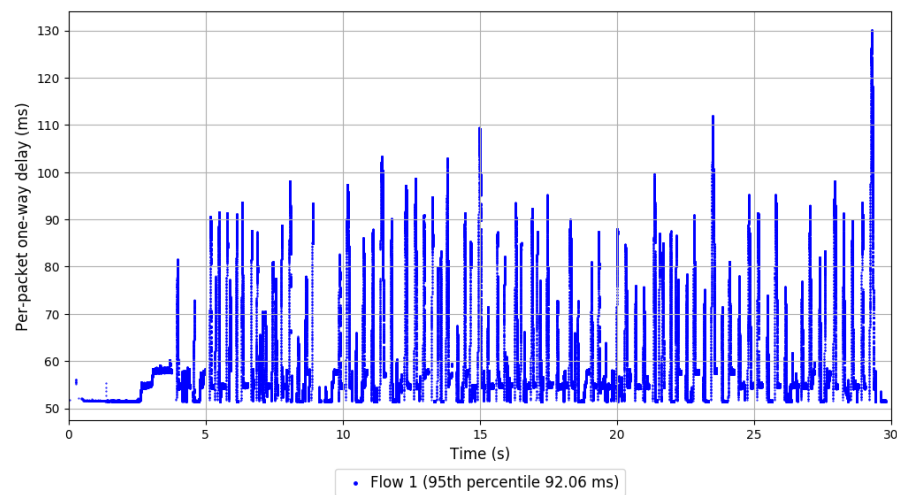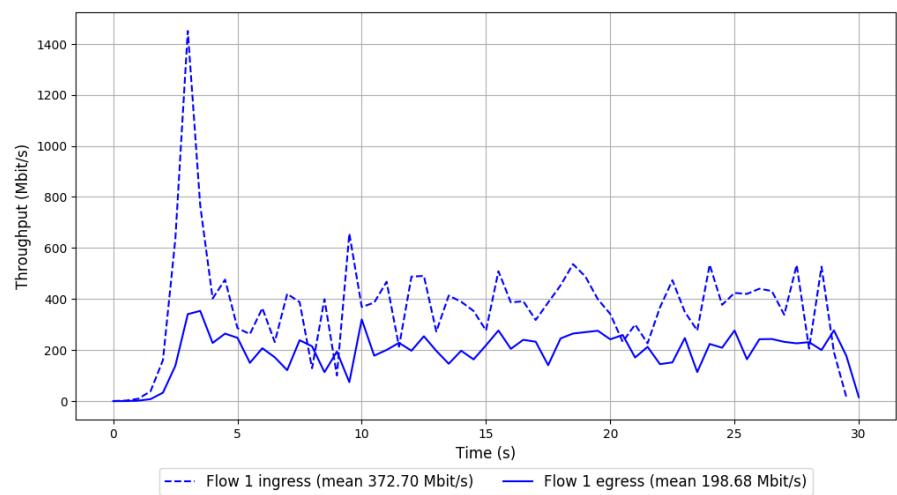• Flow 1 (95th percentile 108.88 ms)

```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 05:08:11
End at: 2019-12-11 05:08:41
Local clock offset: 5.963 ms
Remote clock offset: -46.194 ms


# Below is generated by plot.py at 2019-12-11 05:40:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.68 Mbit/s
95th percentile per-packet one-way delay: 92.062 ms
Loss rate: 46.69%
-- Flow 1:
Average throughput: 198.68 Mbit/s
95th percentile per-packet one-way delay: 92.062 ms
Loss rate: 46.69%
```

Run 5: Report of Muses_DecisionTree — Data Link

Flow 1 ingress (mean 372.70 Mbit/s)   Flow 1 egress (mean 198.68 Mbit/s)

Flow 1 (95th percentile 92.06 ms)

Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 02:50:58
End at: 2019-12-11 02:51:28
Local clock offset: 4.111 ms
Remote clock offset: -40.876 ms

Run 1: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 03:21:53
End at: 2019-12-11 03:22:23
Local clock offset: 5.815 ms
Remote clock offset: -37.284 ms
```

Run 2: Report of Muses_DecisionTreeH0 — Data Link

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Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 03:52:38
End at: 2019-12-11 03:53:08
Local clock offset: -0.016 ms
Remote clock offset: -37.885 ms

Run 3: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 04:23:20
End at: 2019-12-11 04:23:50
Local clock offset: 3.934 ms
Remote clock offset: -36.9 ms

Run 4: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 04:54:10
End at: 2019-12-11 04:54:40
Local clock offset: 6.437 ms
Remote clock offset: -36.688 ms

Run 5: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 02:48:22
End at: 2019-12-11 02:48:53
Local clock offset: 6.728 ms
Remote clock offset: -44.559 ms

Run 1: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 03:19:18
End at: 2019-12-11 03:19:48
Local clock offset: 1.536 ms
Remote clock offset: -36.845 ms
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 03:50:03
End at: 2019-12-11 03:50:33
Local clock offset: 0.651 ms
Remote clock offset: -47.48 ms

Run 3: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 04:20:47
End at: 2019-12-11 04:21:17
Local clock offset: 5.916 ms
Remote clock offset: -40.656 ms

Run 4: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 04:51:35
End at: 2019-12-11 04:52:05
Local clock offset: 6.055 ms
Remote clock offset: -39.965 ms

Run 5: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

```
Run 1: Statistics of PCC-Allegro

Start at: 2019-12-11 02:58:39
End at: 2019-12-11 02:59:09
Local clock offset: 2.277 ms
Remote clock offset: -47.712 ms


# Below is generated by plot.py at 2019-12-11 05:44:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 455.97 Mbit/s
95th percentile per-packet one-way delay: 56.621 ms
Loss rate: 3.71%
-- Flow 1:
Average throughput: 455.97 Mbit/s
95th percentile per-packet one-way delay: 56.621 ms
Loss rate: 3.71%
```
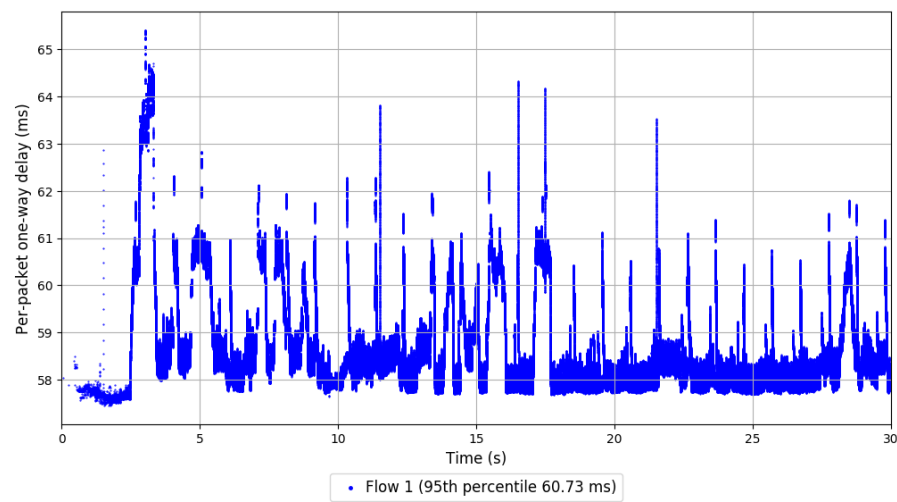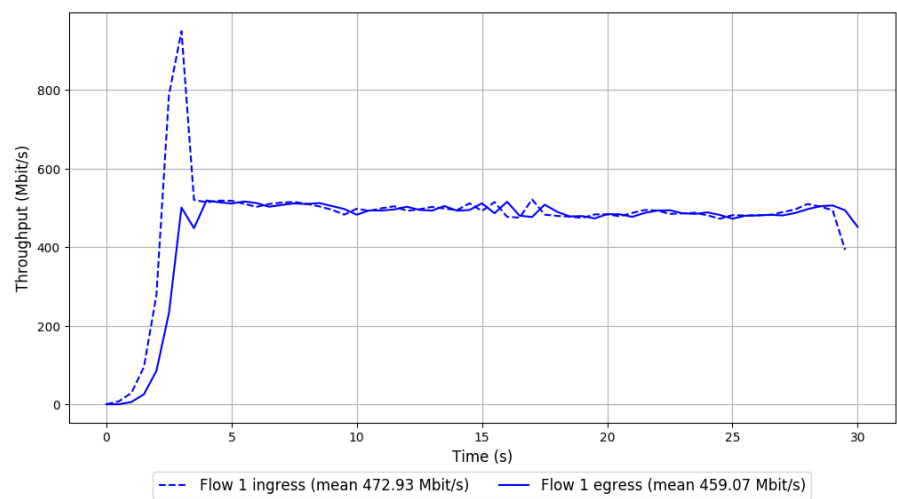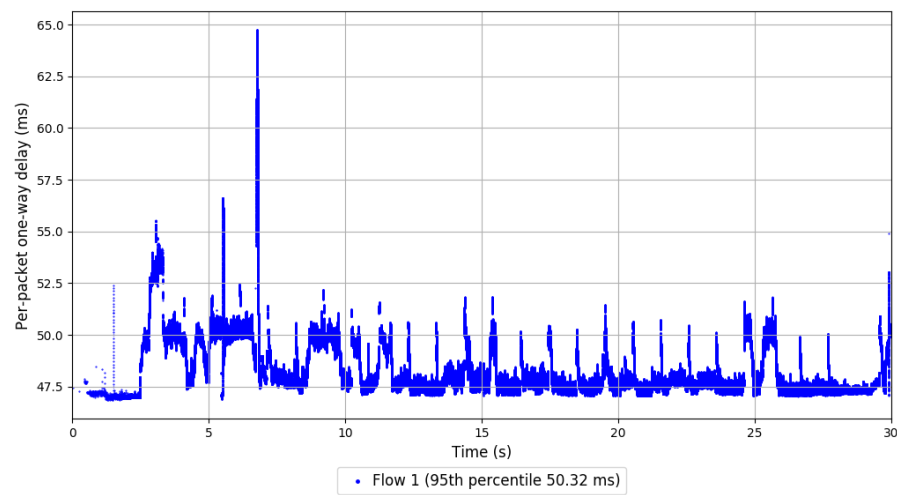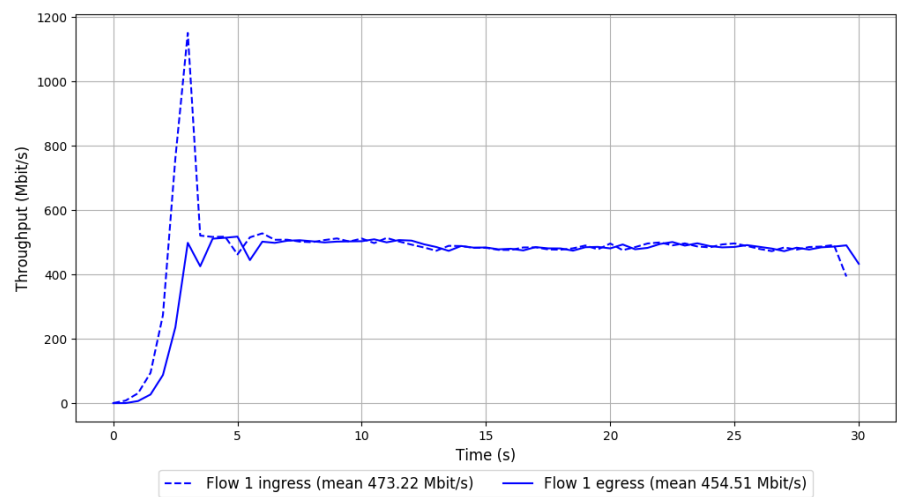
Run 1: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 473.55 Mbit/s) —— Flow 1 egress (mean 455.97 Mbit/s)

• Flow 1 (95th percentile 56.62 ms)

```
Run 2: Statistics of PCC-Allegro

Start at: 2019-12-11 03:29:28
End at: 2019-12-11 03:29:58
Local clock offset: 2.554 ms
Remote clock offset: -40.808 ms


# Below is generated by plot.py at 2019-12-11 05:44:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 459.07 Mbit/s
95th percentile per-packet one-way delay: 60.727 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 459.07 Mbit/s
95th percentile per-packet one-way delay: 60.727 ms
Loss rate: 2.93%
```
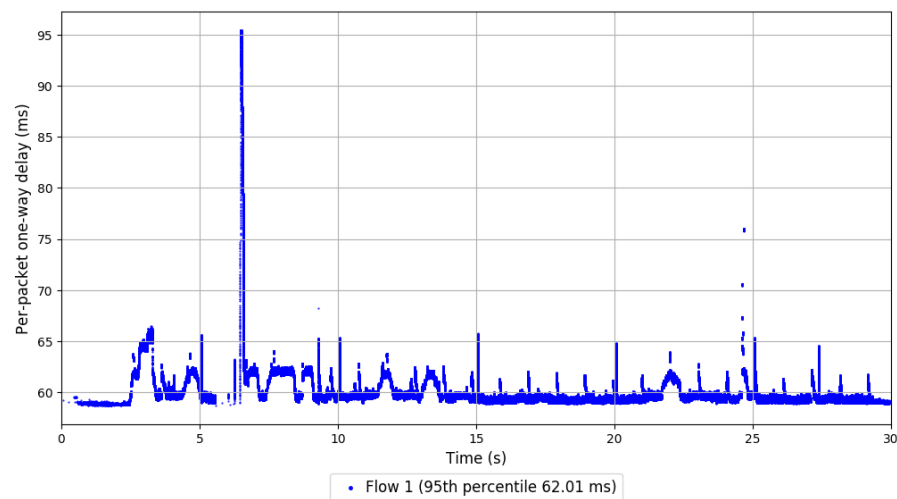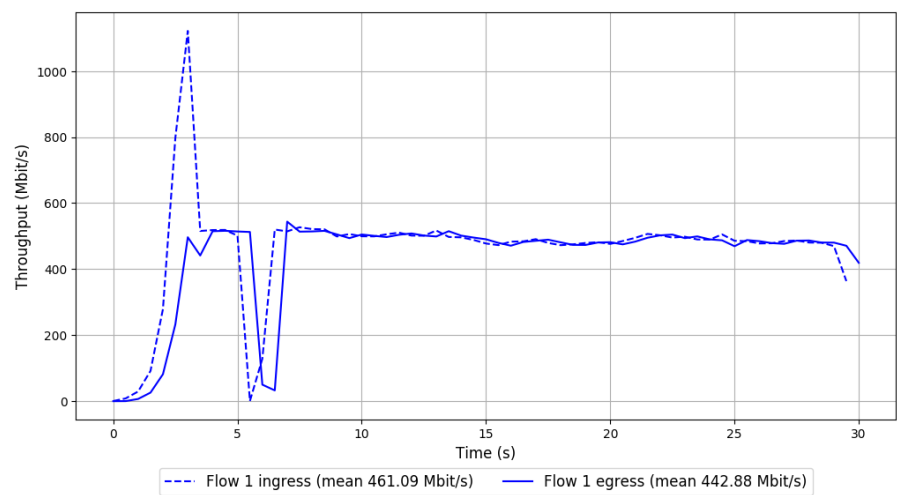
Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2019-12-11 04:00:13
End at: 2019-12-11 04:00:43
Local clock offset: 4.335 ms
Remote clock offset: -47.841 ms


# Below is generated by plot.py at 2019-12-11 05:44:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 454.51 Mbit/s
95th percentile per-packet one-way delay: 50.316 ms
Loss rate: 3.95%
-- Flow 1:
Average throughput: 454.51 Mbit/s
95th percentile per-packet one-way delay: 50.316 ms
Loss rate: 3.95%
```
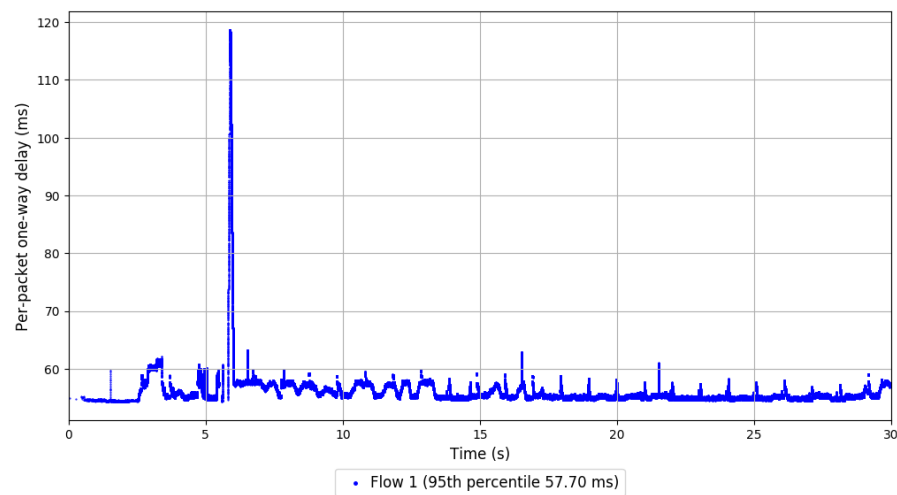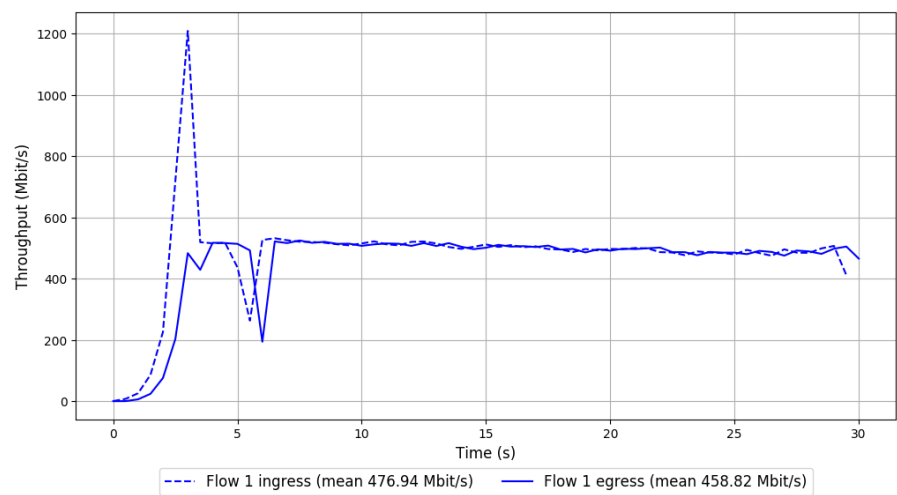
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 473.22 Mbit/s)   Flow 1 egress (mean 454.51 Mbit/s)

Flow 1 (95th percentile 50.32 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2019-12-11 04:30:59
End at: 2019-12-11 04:31:29
Local clock offset: 2.473 ms
Remote clock offset: -39.943 ms


# Below is generated by plot.py at 2019-12-11 05:44:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 442.88 Mbit/s
95th percentile per-packet one-way delay: 62.006 ms
Loss rate: 3.95%
-- Flow 1:
Average throughput: 442.88 Mbit/s
95th percentile per-packet one-way delay: 62.006 ms
Loss rate: 3.95%
```
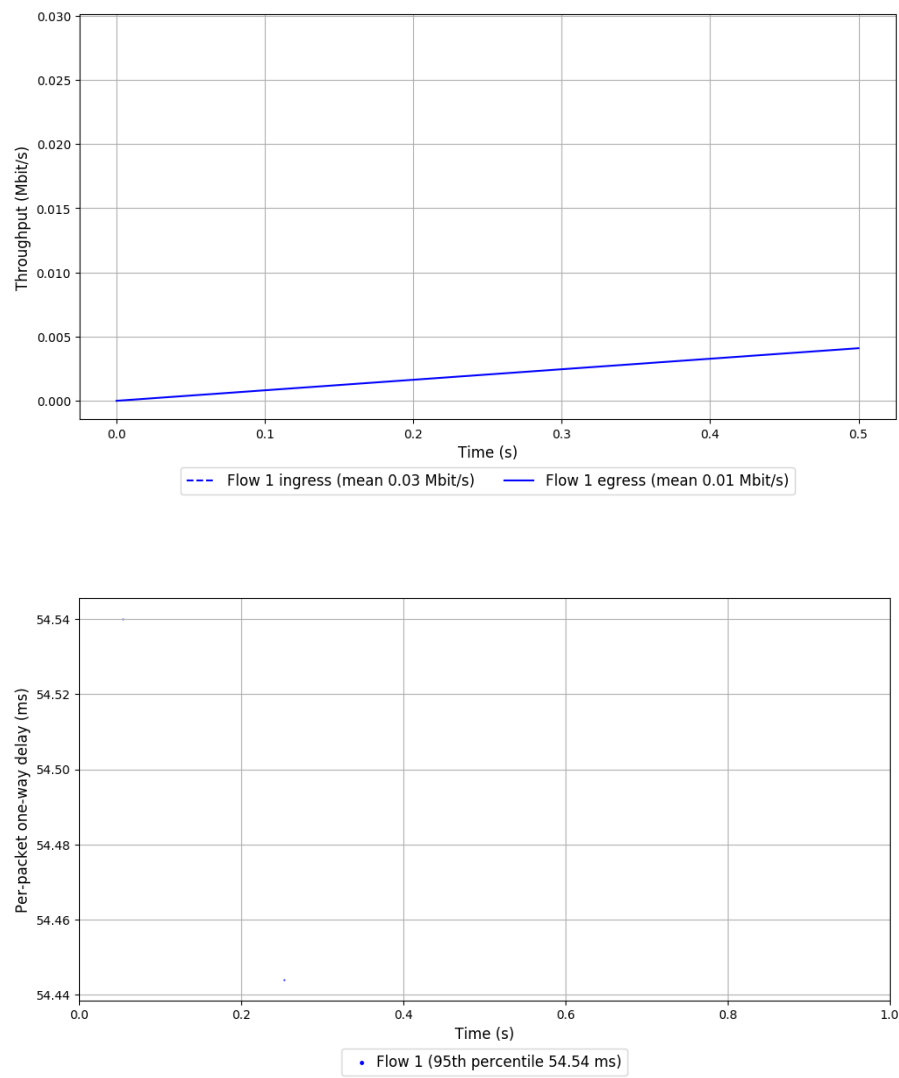
Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 461.09 Mbit/s)   Flow 1 egress (mean 442.88 Mbit/s)

Flow 1 (95th percentile 62.01 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2019-12-11 05:01:46
End at: 2019-12-11 05:02:16
Local clock offset: 2.662 ms
Remote clock offset: -46.56 ms


# Below is generated by plot.py at 2019-12-11 05:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 458.82 Mbit/s
95th percentile per-packet one-way delay: 57.704 ms
Loss rate: 3.79%
-- Flow 1:
Average throughput: 458.82 Mbit/s
95th percentile per-packet one-way delay: 57.704 ms
Loss rate: 3.79%
```
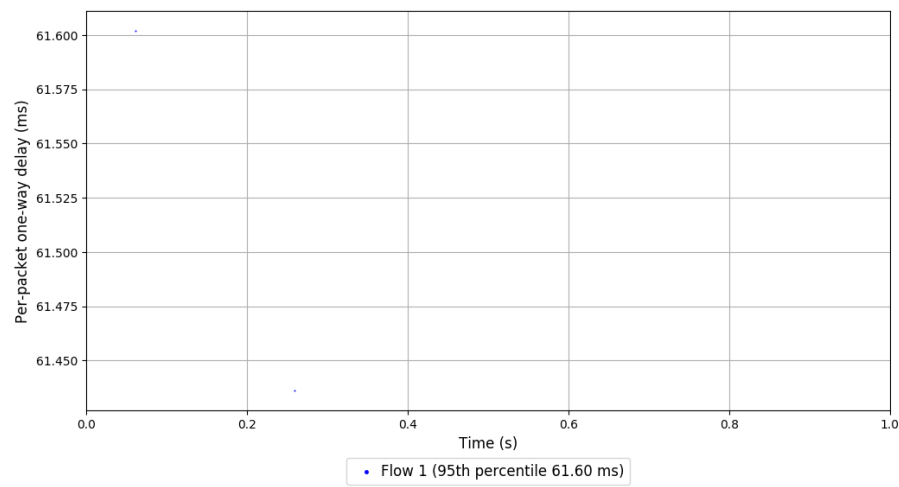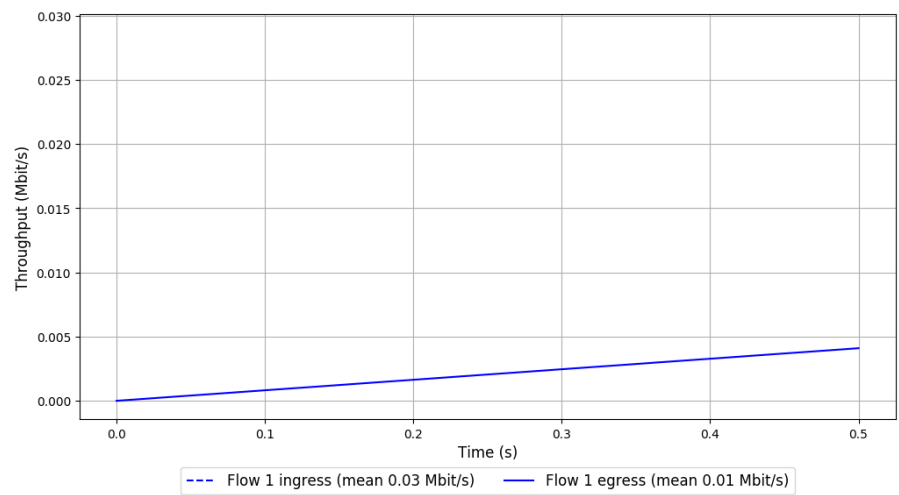
Run 5: Report of PCC-Allegro — Data Link

```
Run 1: Statistics of PCC-Expr

Start at: 2019-12-11 03:03:56
End at: 2019-12-11 03:04:26
Local clock offset: 2.596 ms
Remote clock offset: -43.445 ms
```

Run 1: Report of PCC-Expr — Data Link

```
Run 2: Statistics of PCC-Expr

Start at: 2019-12-11 03:34:45
End at: 2019-12-11 03:35:15
Local clock offset: 3.171 ms
Remote clock offset: -36.409 ms
```
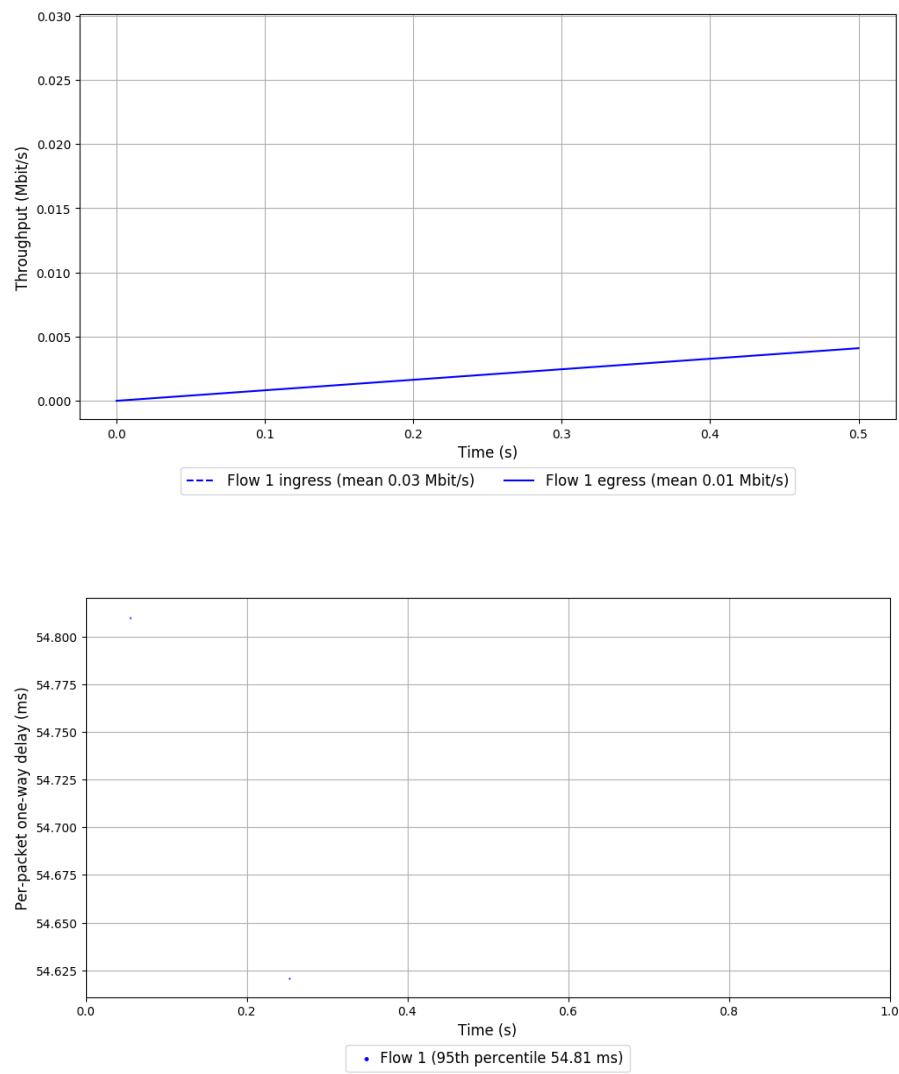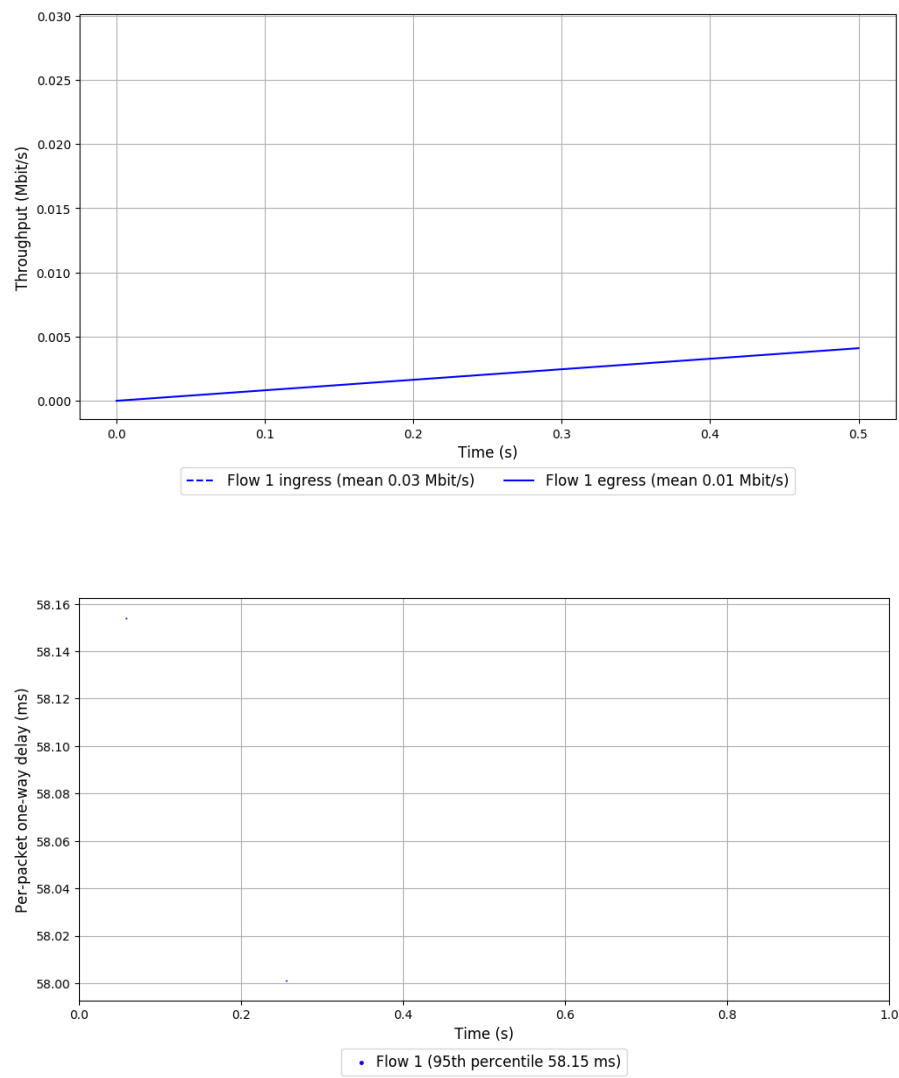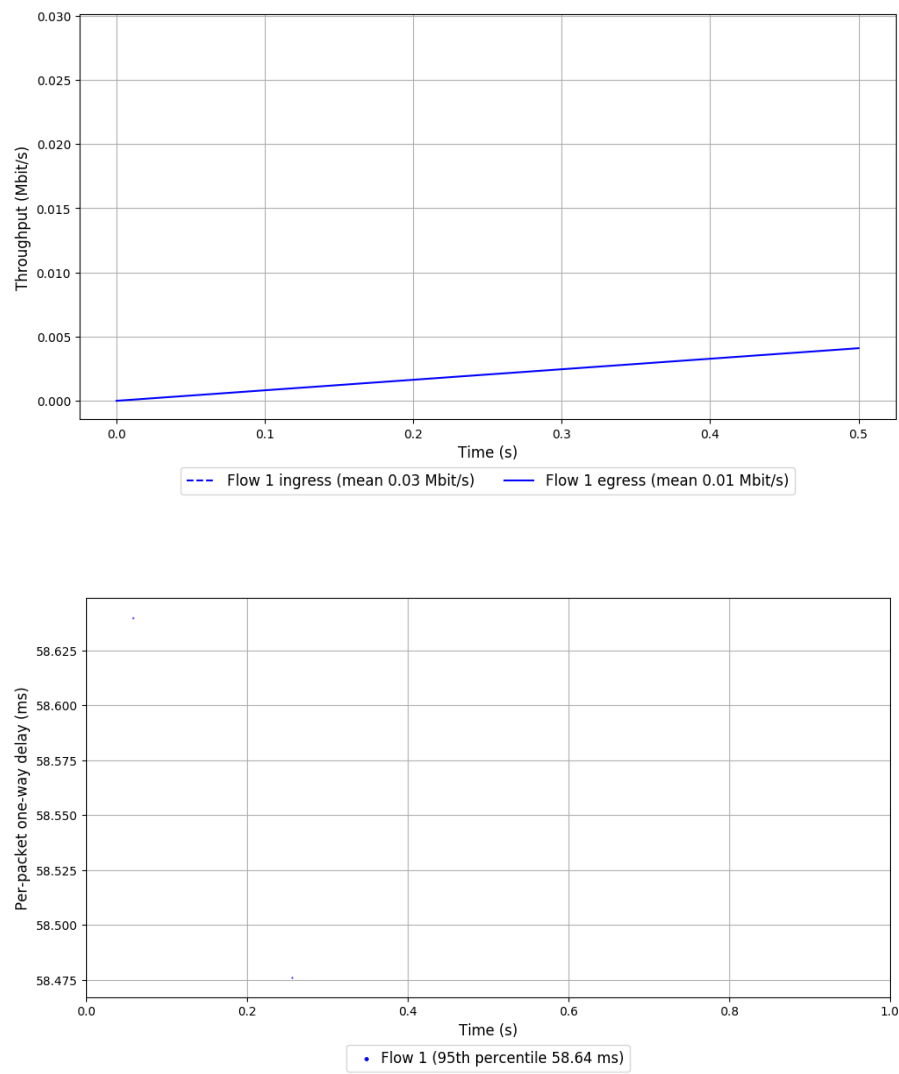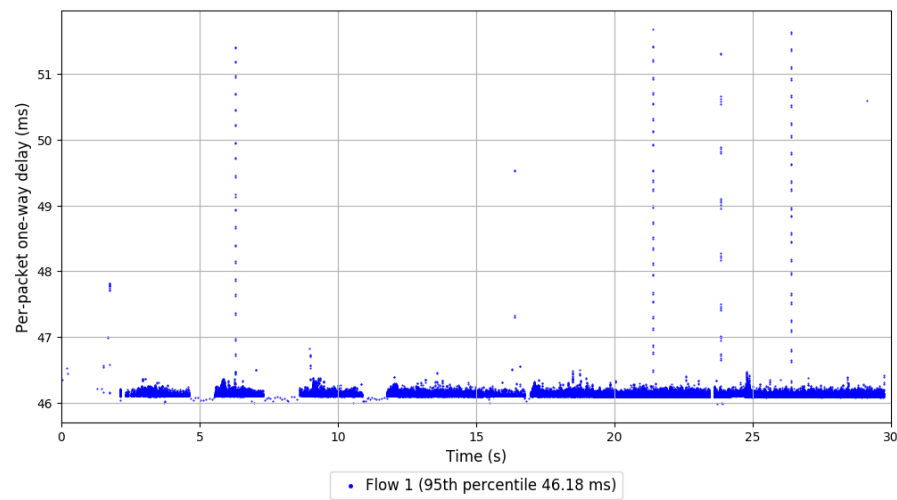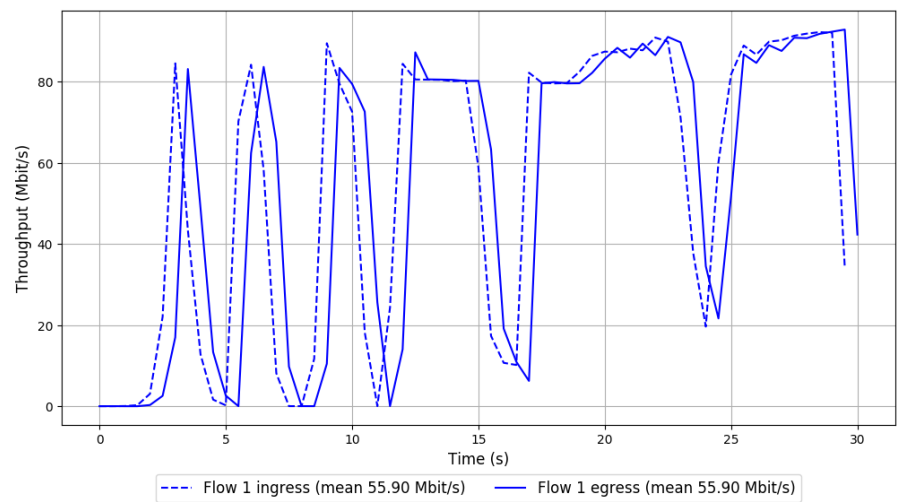
Run 2: Report of PCC-Expr — Data Link

```
Run 3: Statistics of PCC-Expr

Start at: 2019-12-11 04:05:28
End at: 2019-12-11 04:05:58
Local clock offset: 4.587 ms
Remote clock offset: -40.057 ms
```

Run 3: Report of PCC-Expr — Data Link

Run 4: Statistics of PCC-Expr

Start at: 2019-12-11 04:36:15
End at: 2019-12-11 04:36:45
Local clock offset: 6.778 ms
Remote clock offset: -36.428 ms

Run 4: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 0.03 Mbit/s) --- Flow 1 egress (mean 0.01 Mbit/s)

Flow 1 (95th percentile 58.15 ms)

```
Run 5: Statistics of PCC-Expr

Start at: 2019-12-11 05:07:01
End at: 2019-12-11 05:07:31
Local clock offset: 6.247 ms
Remote clock offset: -36.943 ms
```

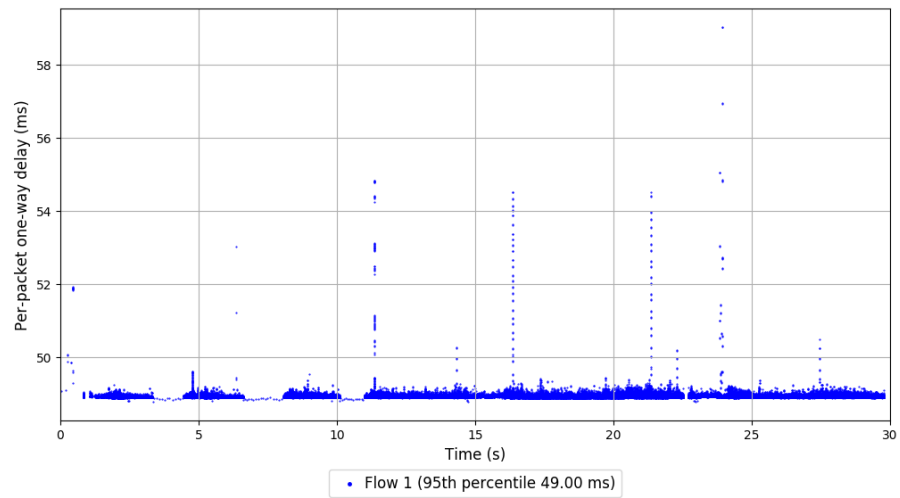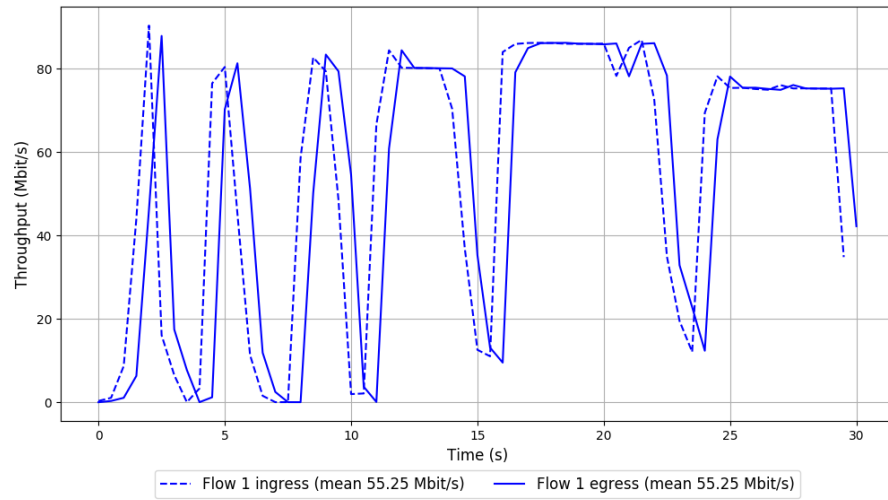# Run 5: Report of PCC-Expr — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2019-12-11 02:52:07
End at: 2019-12-11 02:52:37
Local clock offset: 7.081 ms
Remote clock offset: -48.842 ms


# Below is generated by plot.py at 2019-12-11 05:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.90 Mbit/s
95th percentile per-packet one-way delay: 46.177 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.90 Mbit/s
95th percentile per-packet one-way delay: 46.177 ms
Loss rate: 0.00%
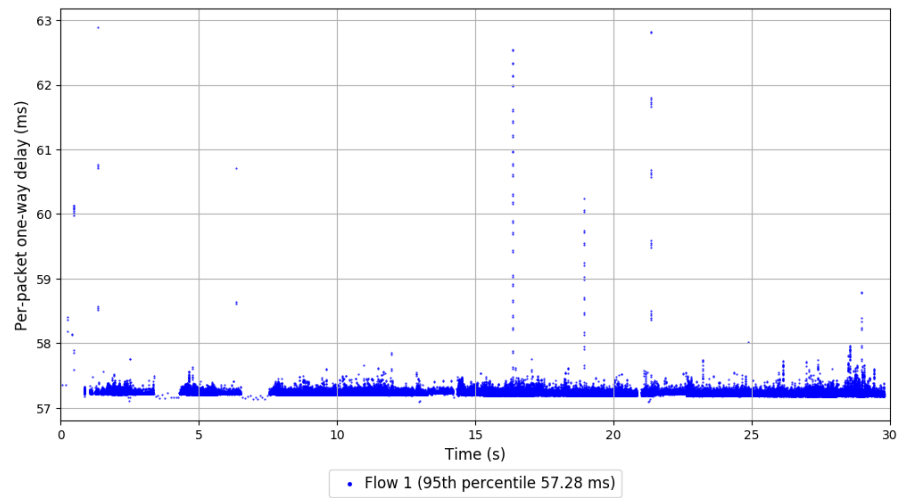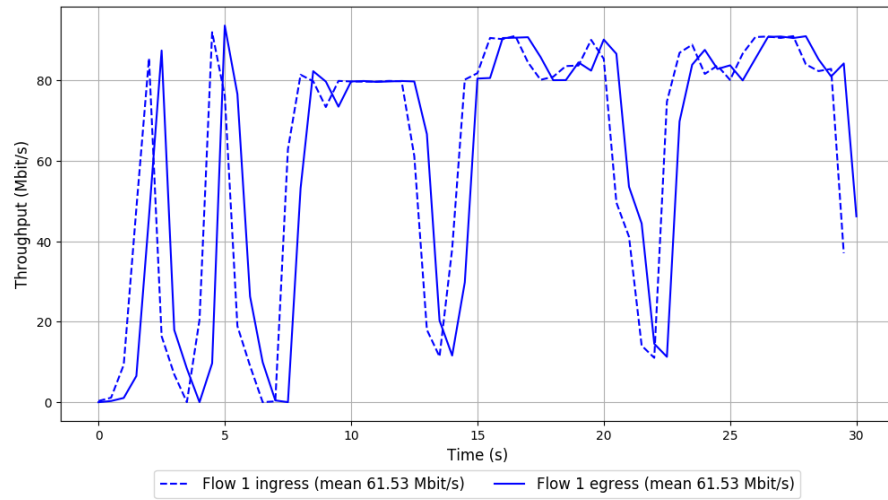```

Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2019-12-11 03:23:02
End at: 2019-12-11 03:23:32
Local clock offset: 6.305 ms
Remote clock offset: -48.097 ms

Below is generated by plot.py at 2019-12-11 05:44:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.25 Mbit/s
95th percentile per-packet one-way delay: 49.001 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.25 Mbit/s
95th percentile per-packet one-way delay: 49.001 ms
Loss rate: 0.00%
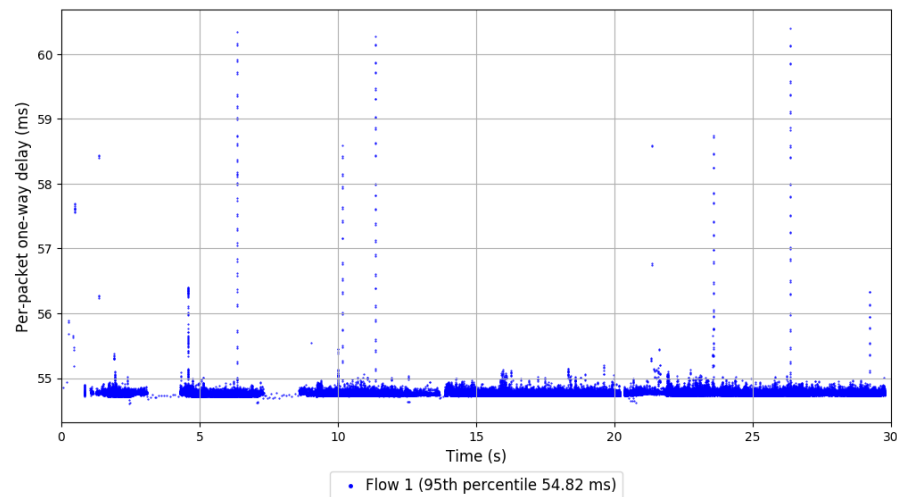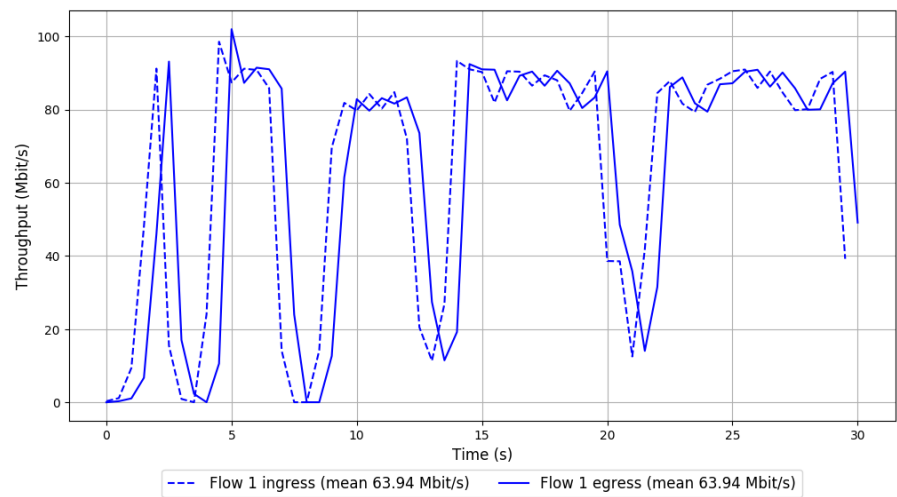```

Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2019-12-11 03:53:47
End at: 2019-12-11 03:54:17
Local clock offset: 2.141 ms
Remote clock offset: -40.083 ms


# Below is generated by plot.py at 2019-12-11 05:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.53 Mbit/s
95th percentile per-packet one-way delay: 57.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.53 Mbit/s
95th percentile per-packet one-way delay: 57.284 ms
Loss rate: 0.00%
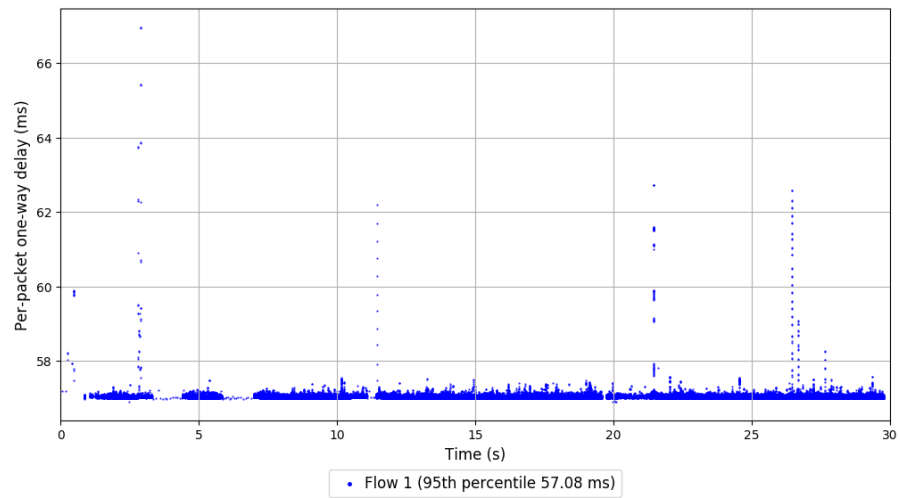```
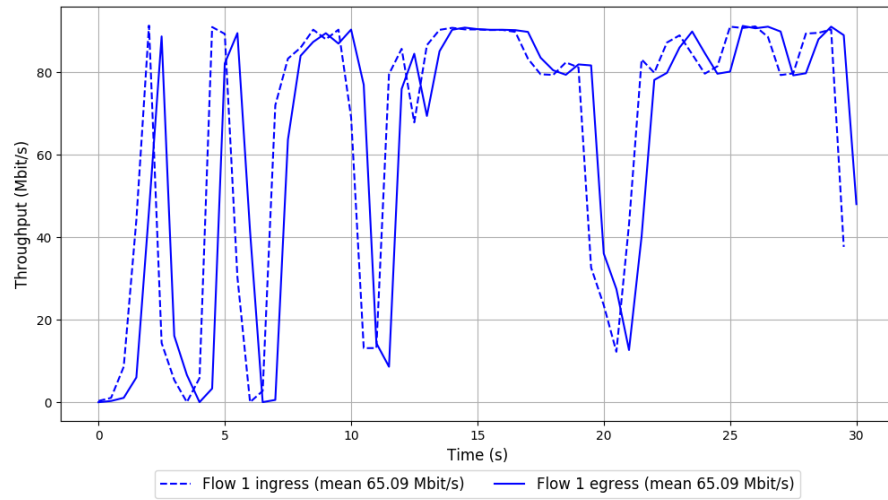
Run 3: Report of QUIC Cubic — Data Link



Flow 1 ingress (mean 61.53 Mbit/s) --- Flow 1 egress (mean 61.53 Mbit/s)



Flow 1 (95th percentile 57.28 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2019-12-11 04:24:29
End at: 2019-12-11 04:24:59
Local clock offset: 6.138 ms
Remote clock offset: -40.003 ms

Below is generated by plot.py at 2019-12-11 05:44:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.94 Mbit/s
95th percentile per-packet one-way delay: 54.818 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.94 Mbit/s
95th percentile per-packet one-way delay: 54.818 ms
Loss rate: 0.00%
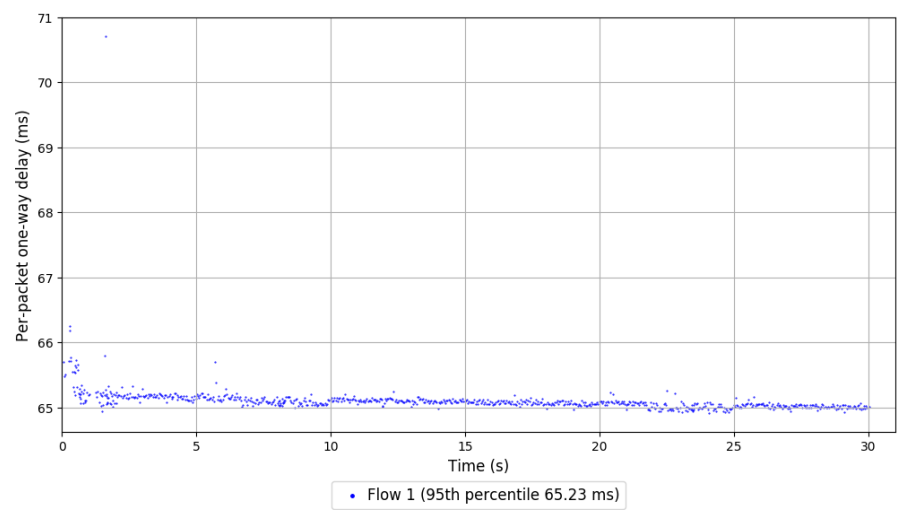```
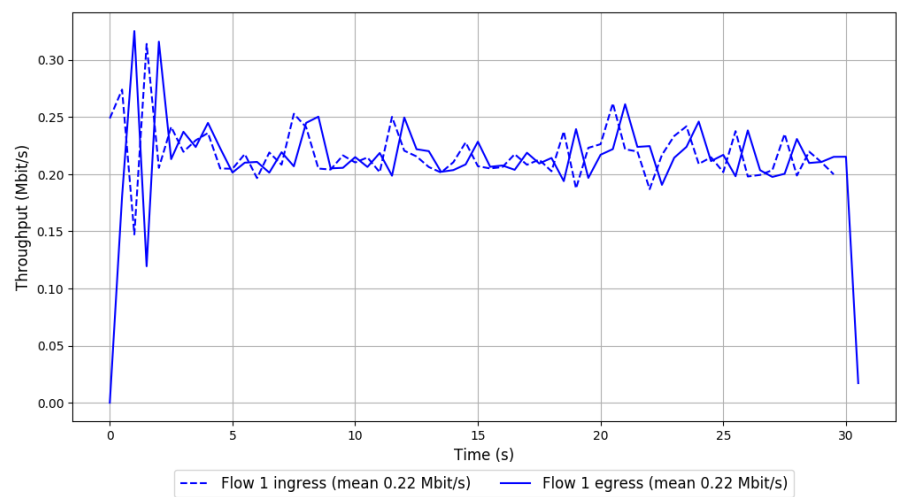
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 63.94 Mbit/s)   Flow 1 egress (mean 63.94 Mbit/s)

Flow 1 (95th percentile 54.82 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2019-12-11 04:55:19
End at: 2019-12-11 04:55:49
Local clock offset: 6.943 ms
Remote clock offset: -39.588 ms


# Below is generated by plot.py at 2019-12-11 05:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.09 Mbit/s
95th percentile per-packet one-way delay: 57.081 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.09 Mbit/s
95th percentile per-packet one-way delay: 57.081 ms
Loss rate: 0.00%
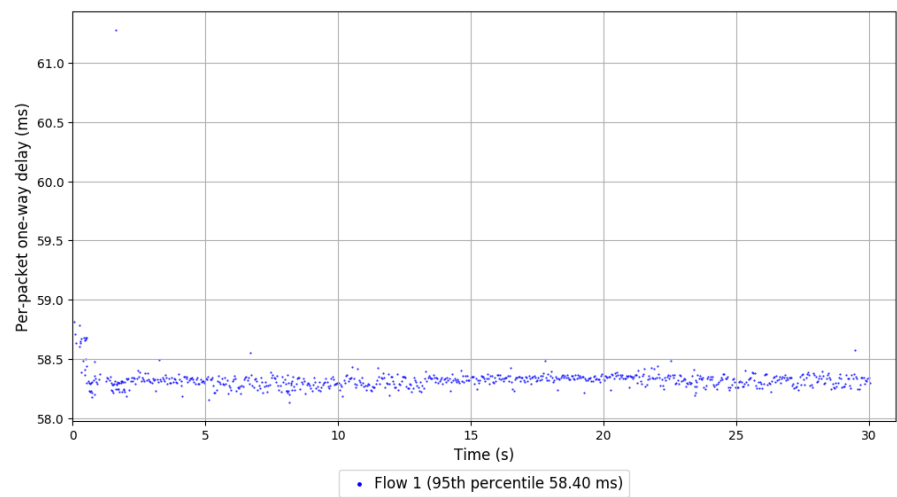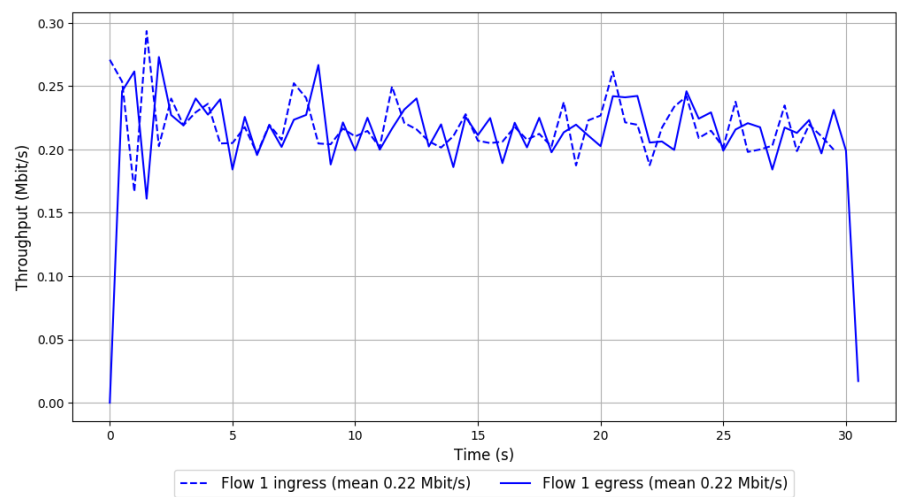```

Run 5: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2019-12-11 02:41:55
End at: 2019-12-11 02:42:25
Local clock offset: 0.285 ms
Remote clock offset: -37.32 ms

Below is generated by plot.py at 2019-12-11 05:44:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.231 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.231 ms
Loss rate: 0.00%
```
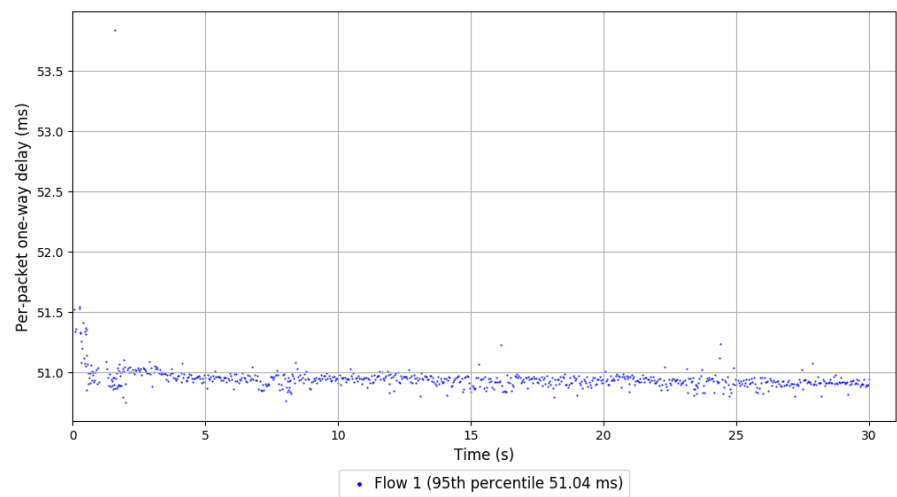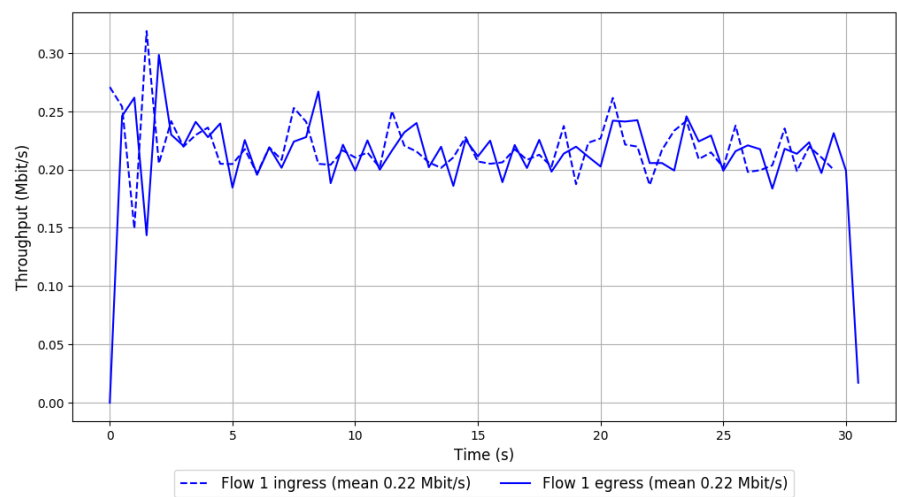
# Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2019-12-11 03:12:46
End at: 2019-12-11 03:13:16
Local clock offset: 4.78 ms
Remote clock offset: -37.462 ms

Below is generated by plot.py at 2019-12-11 05:44:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.397 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.397 ms
Loss rate: 0.00%
```
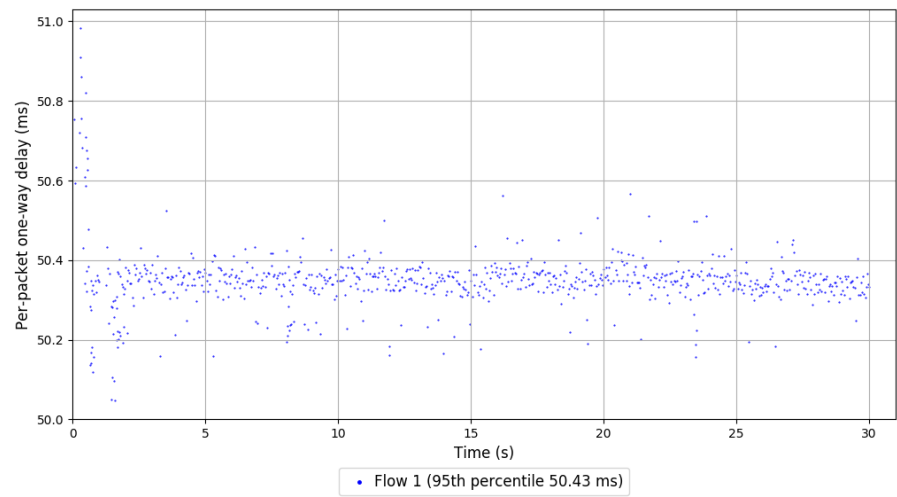
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2019-12-11 03:43:37
End at: 2019-12-11 03:44:07
Local clock offset: 2.989 ms
Remote clock offset: -46.524 ms


# Below is generated by plot.py at 2019-12-11 05:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.037 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.037 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.22 Mbit/s)   —— Flow 1 egress (mean 0.22 Mbit/s)

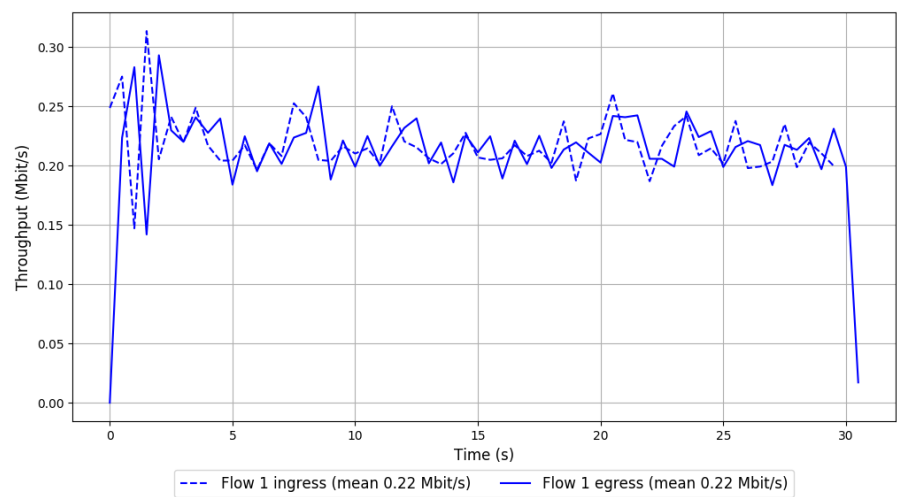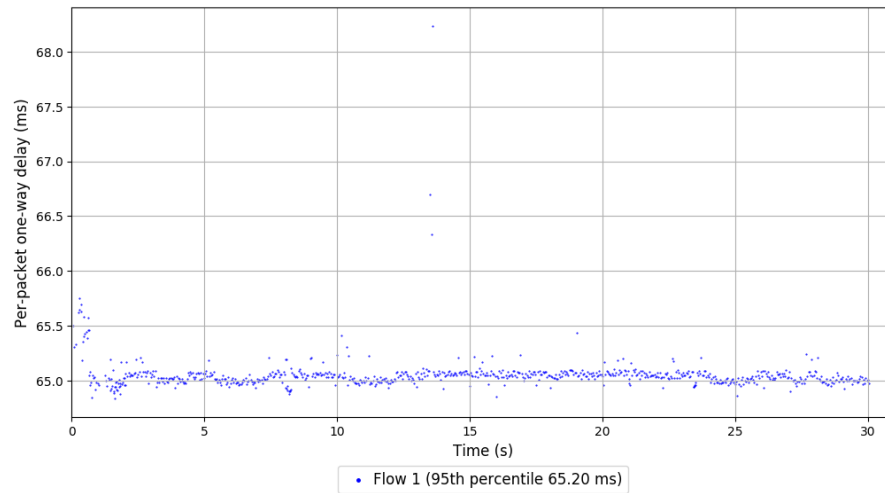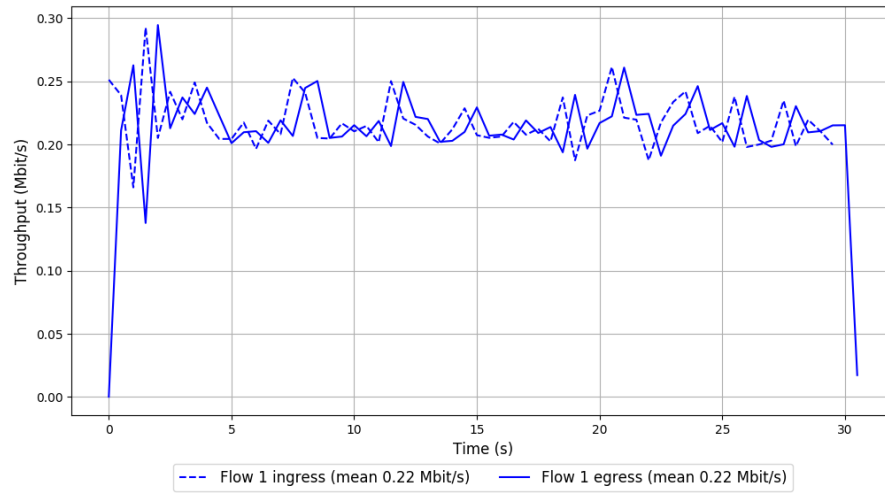• Flow 1 (95th percentile 51.04 ms)

```
Run 4: Statistics of SCReAM

Start at: 2019-12-11 04:14:19
End at: 2019-12-11 04:14:49
Local clock offset: 4.502 ms
Remote clock offset: -47.827 ms

# Below is generated by plot.py at 2019-12-11 05:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.430 ms
Loss rate: 0.00%
```
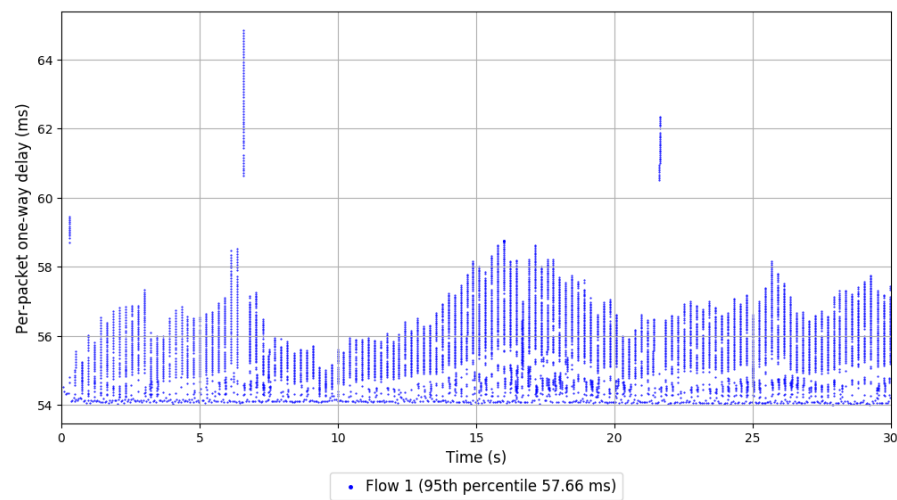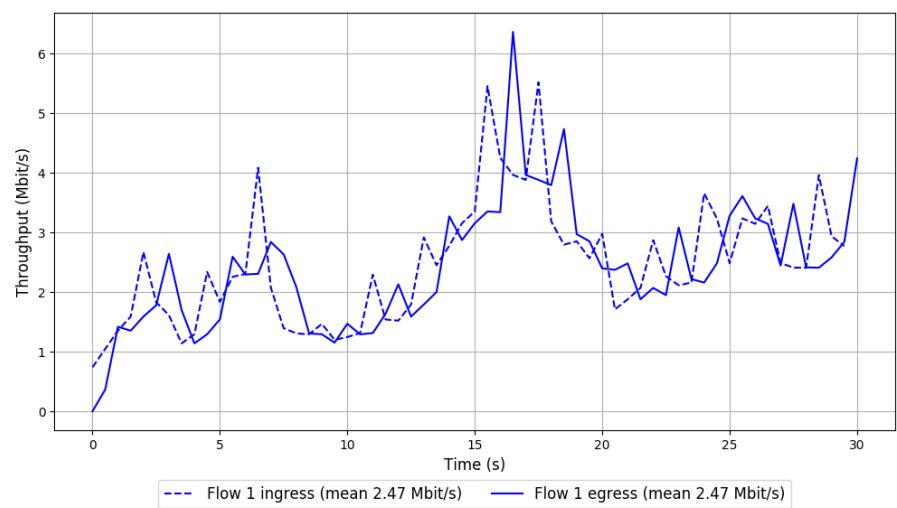
Run 4: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.22 Mbit/s) --- Flow 1 egress (mean 0.22 Mbit/s)

Flow 1 (95th percentile 50.43 ms)

```
Run 5: Statistics of SCReAM

Start at: 2019-12-11 04:45:09
End at: 2019-12-11 04:45:39
Local clock offset: 1.863 ms
Remote clock offset: -36.621 ms


# Below is generated by plot.py at 2019-12-11 05:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.198 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.198 ms
Loss rate: 0.00%
```

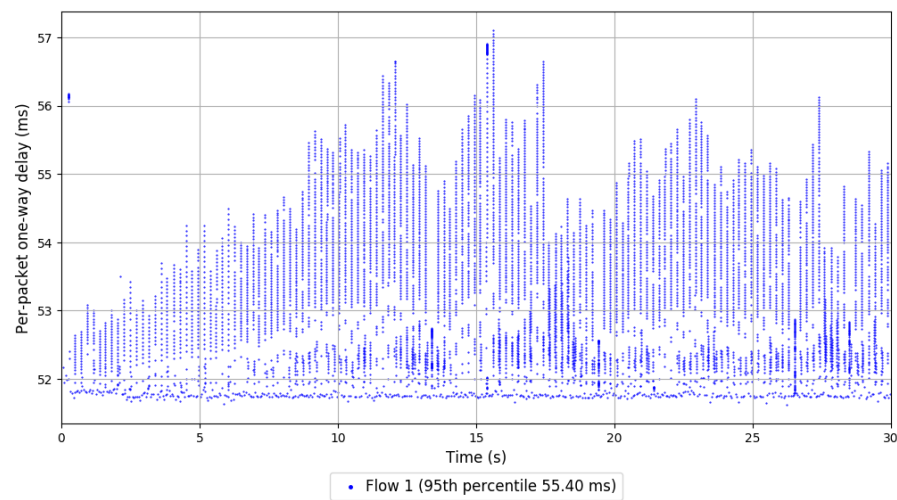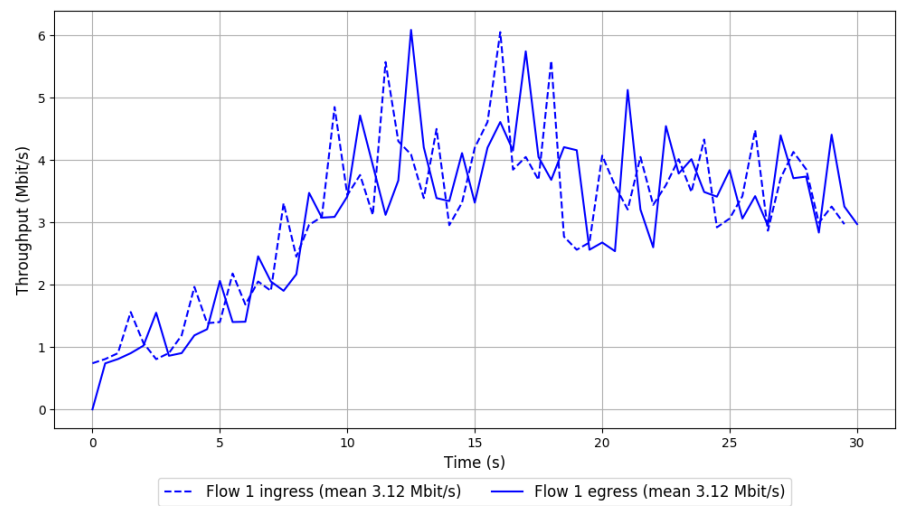Run 5: Report of SCReAM — Data Link

```
Run 1: Statistics of Sprout

Start at: 2019-12-11 03:00:05
End at: 2019-12-11 03:00:35
Local clock offset: 5.644 ms
Remote clock offset: -43.613 ms


# Below is generated by plot.py at 2019-12-11 05:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 57.657 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 57.657 ms
Loss rate: 0.00%
```

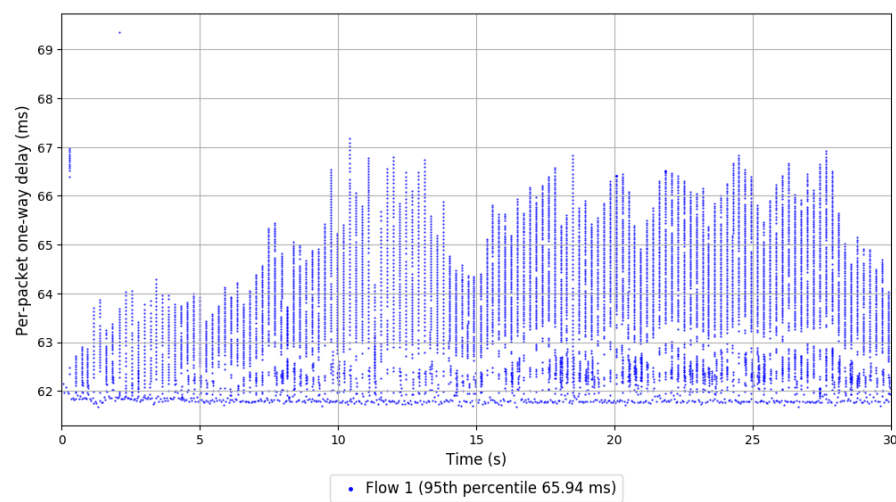Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2019-12-11 03:30:54
End at: 2019-12-11 03:31:24
Local clock offset: 1.666 ms
Remote clock offset: -47.646 ms


# Below is generated by plot.py at 2019-12-11 05:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 55.397 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 55.397 ms
Loss rate: 0.00%
```

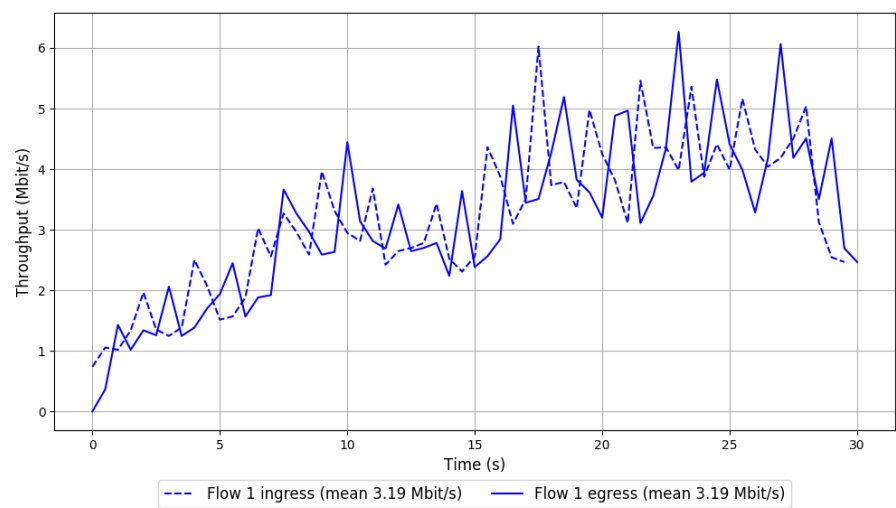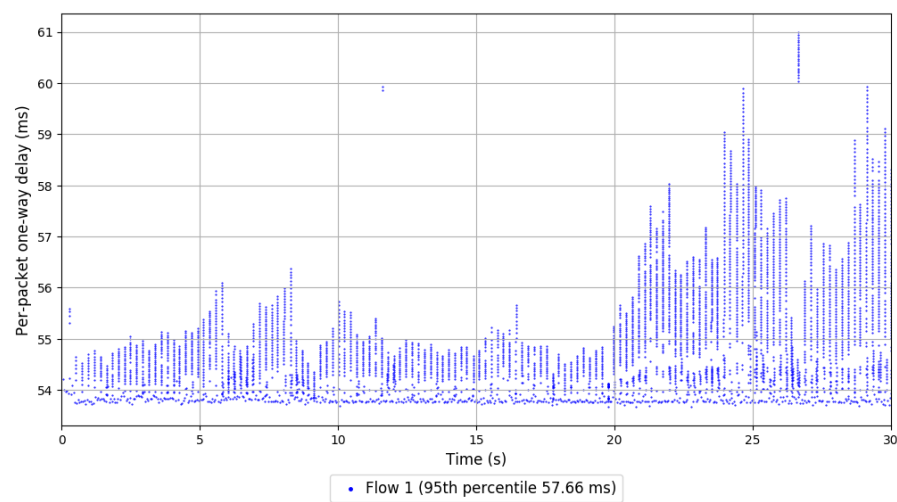Run 2: Report of Sprout — Data Link

Run 3: Statistics of Sprout

Start at: 2019-12-11 04:01:39
End at: 2019-12-11 04:02:09
Local clock offset: 0.388 ms
Remote clock offset: -39.618 ms

Below is generated by plot.py at 2019-12-11 05:44:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 65.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 65.944 ms
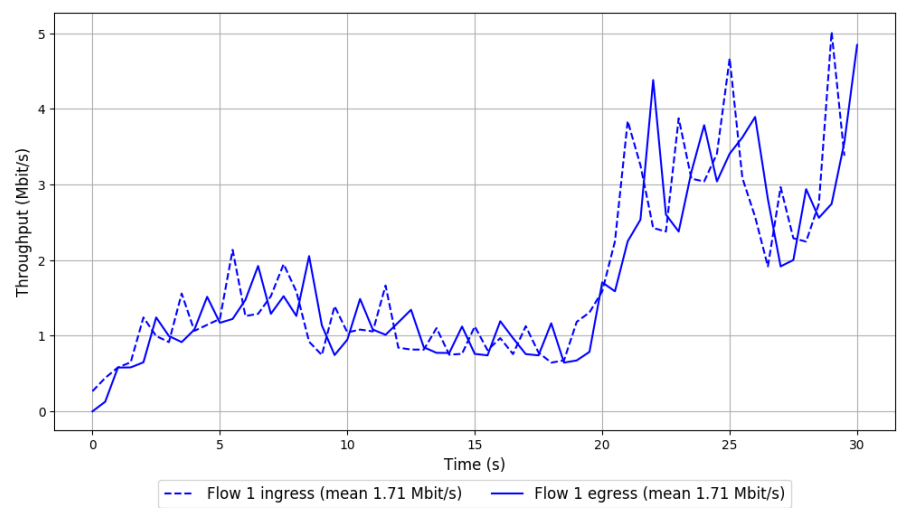Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2019-12-11 04:32:24
End at: 2019-12-11 04:32:54
Local clock offset: 2.415 ms
Remote clock offset: -44.807 ms


# Below is generated by plot.py at 2019-12-11 05:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 57.655 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 57.655 ms
Loss rate: 0.00%
```

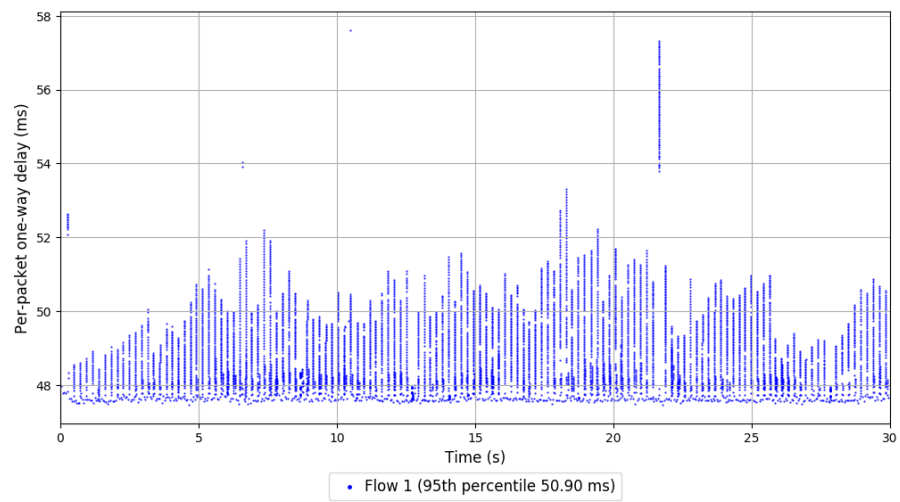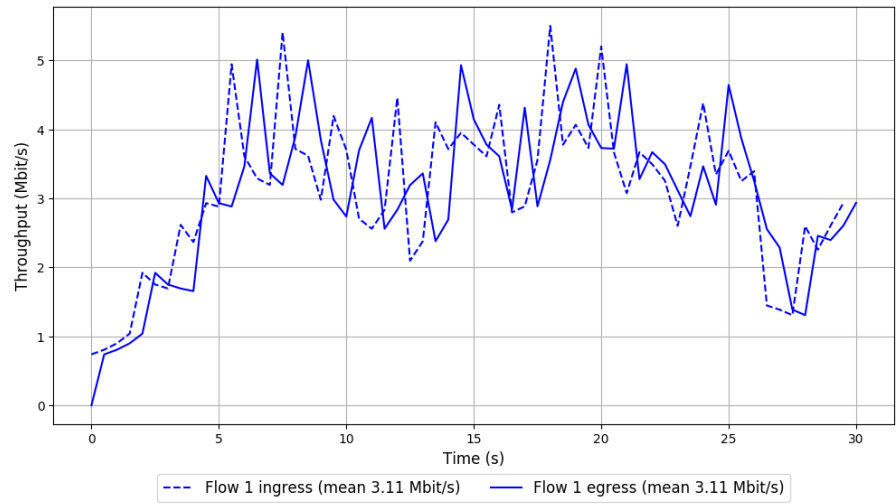Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2019-12-11 05:03:11
End at: 2019-12-11 05:03:42
Local clock offset: 6.042 ms
Remote clock offset: -47.551 ms


# Below is generated by plot.py at 2019-12-11 05:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 50.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 50.897 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link
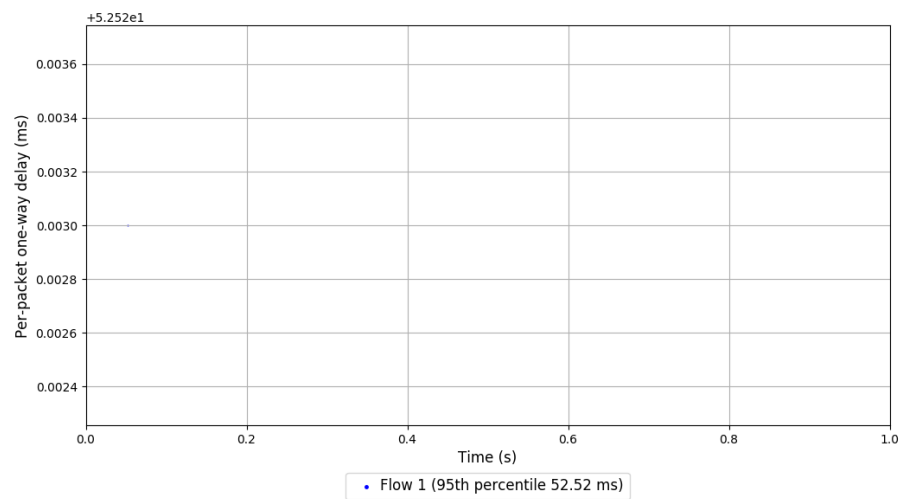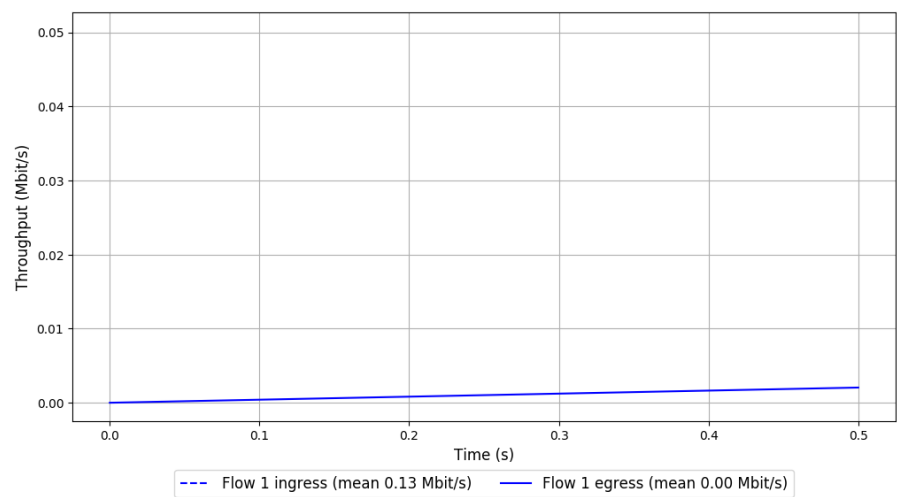
```
Run 1: Statistics of TaoVA-100x

Start at: 2019-12-11 02:45:55
End at: 2019-12-11 02:46:25
Local clock offset: 5.656 ms
Remote clock offset: -44.269 ms
```

Run 1: Report of TaoVA-100x — Data Link
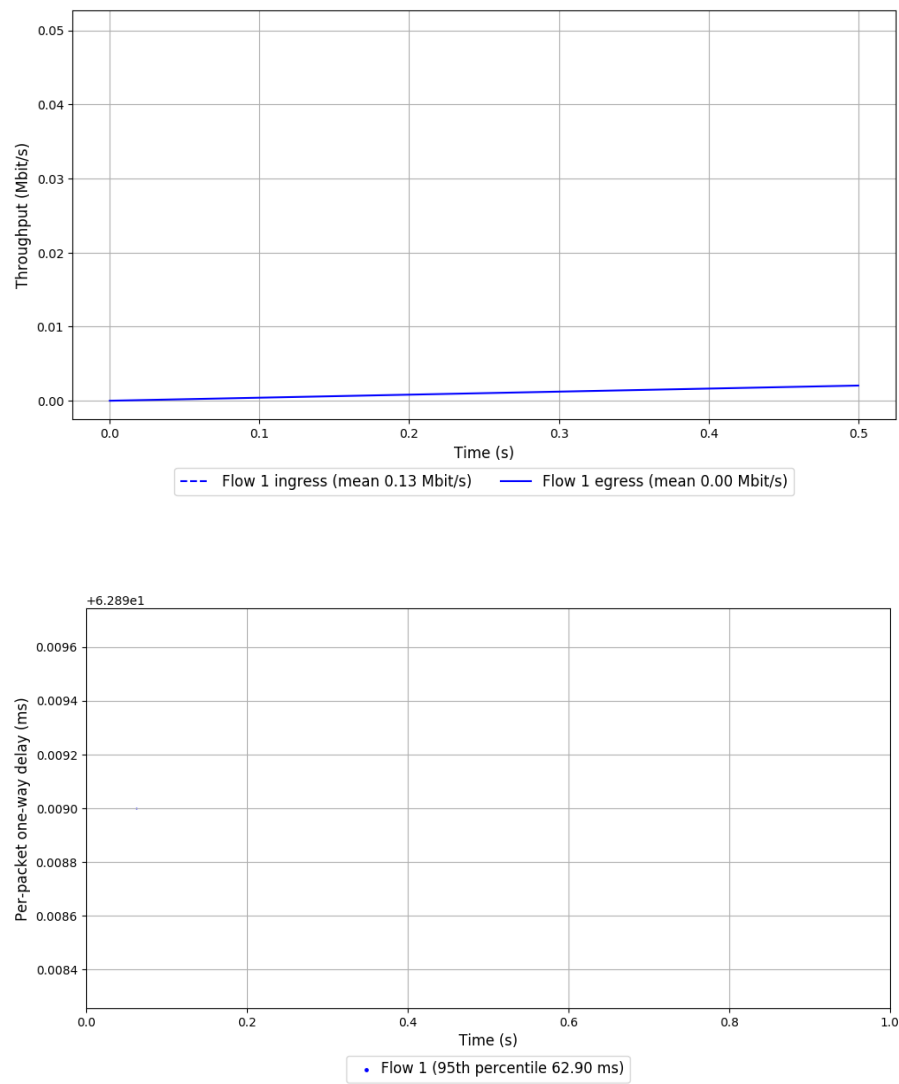
```
Run 2: Statistics of TaoVA-100x

Start at: 2019-12-11 03:16:52
End at: 2019-12-11 03:17:22
Local clock offset: 0.791 ms
Remote clock offset: -37.582 ms
```

Run 2: Report of TaoVA-100x — Data Link
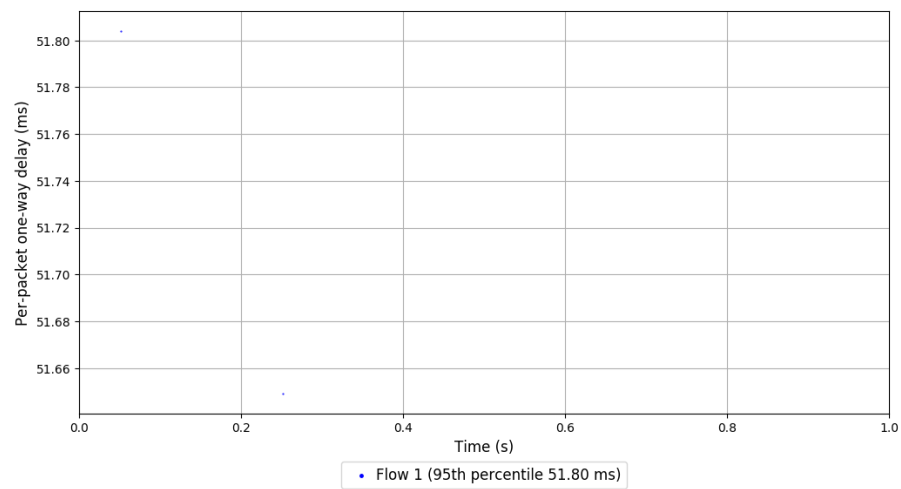
```
Run 3: Statistics of TaoVA-100x

Start at: 2019-12-11 03:47:38
End at: 2019-12-11 03:48:08
Local clock offset: 3.18 ms
Remote clock offset: -47.748 ms
```
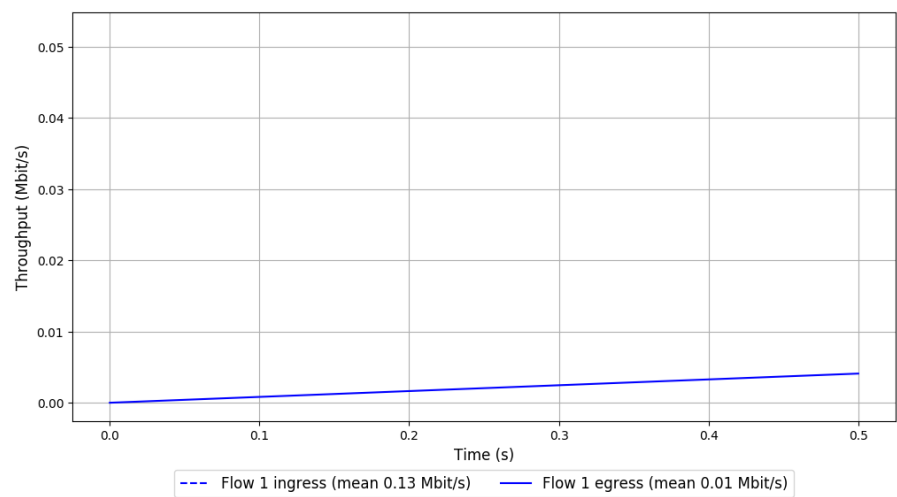
Run 3: Report of TaoVA-100x — Data Link
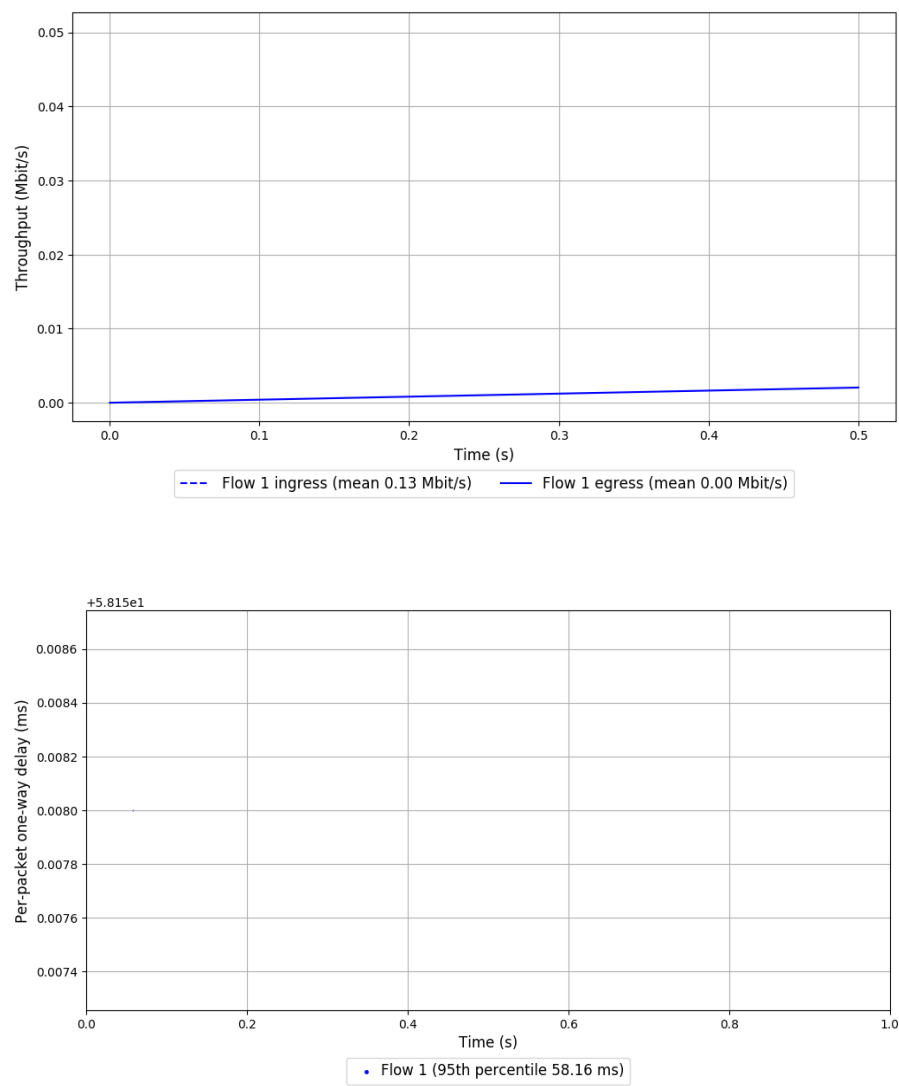
```
Run 4: Statistics of TaoVA-100x

Start at: 2019-12-11 04:18:21
End at: 2019-12-11 04:18:51
Local clock offset: 6.075 ms
Remote clock offset: -36.757 ms
```

Run 4: Report of TaoVA-100x — Data Link
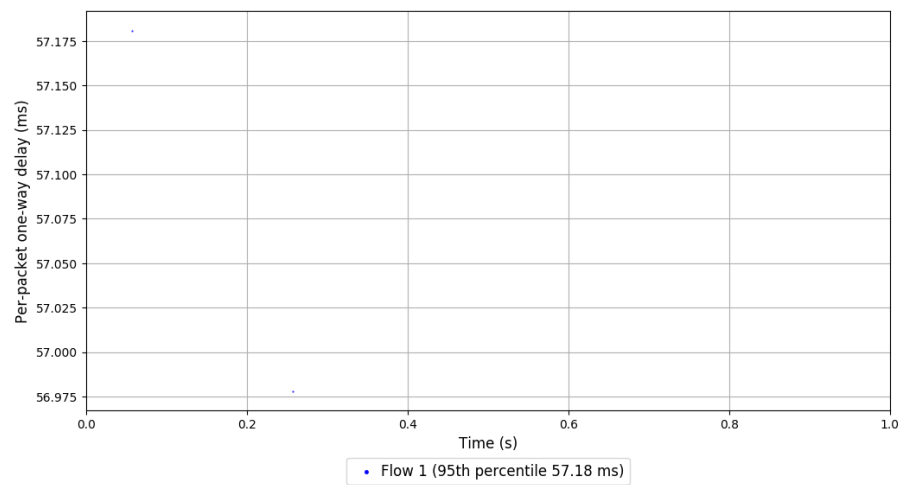
```
Run 5: Statistics of TaoVA-100x

Start at: 2019-12-11 04:49:09
End at: 2019-12-11 04:49:39
Local clock offset: 6.543 ms
Remote clock offset: -40.25 ms
```
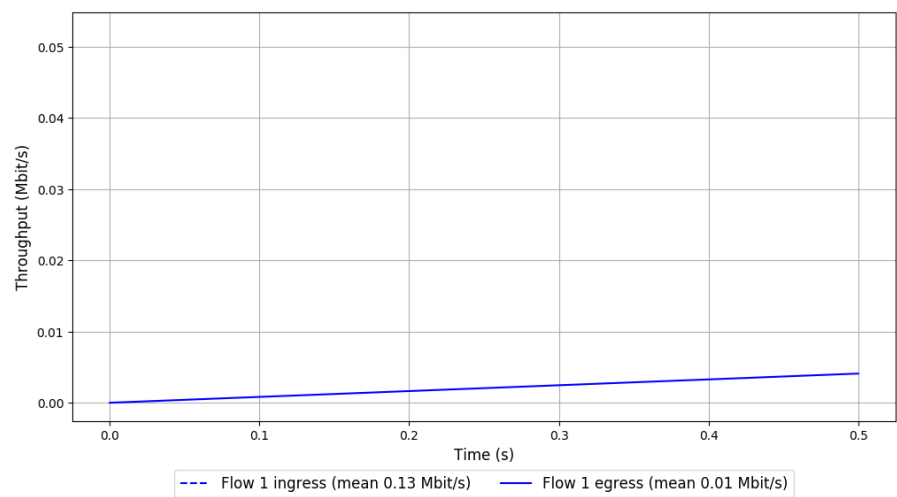
Run 5: Report of TaoVA-100x — Data Link

```
Run 1: Statistics of TCP Vegas

Start at: 2019-12-11 03:10:18
End at: 2019-12-11 03:10:48
Local clock offset: 5.322 ms
Remote clock offset: -47.022 ms
```

Run 1: Report of TCP Vegas — Data Link

Figure is missing

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Run 2: Statistics of TCP Vegas

Start at: 2019-12-11 03:41:07
End at: 2019-12-11 03:41:37
Local clock offset: 5.276 ms
Remote clock offset: -40.651 ms

Run 2: Report of TCP Vegas — Data Link

Figure is missing

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Run 3: Statistics of TCP Vegas

Start at: 2019-12-11 04:11:48
End at: 2019-12-11 04:12:18
Local clock offset: 4.784 ms
Remote clock offset: -39.976 ms

Run 3: Report of TCP Vegas — Data Link

Figure is missing

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Run 4: Statistics of TCP Vegas

Start at: 2019-12-11 04:42:38
End at: 2019-12-11 04:43:08
Local clock offset: 2.189 ms
Remote clock offset: -47.377 ms

Run 4: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

```
Run 5: Statistics of TCP Vegas

Start at: 2019-12-11 05:13:24
End at: 2019-12-11 05:13:54
Local clock offset: 6.135 ms
Remote clock offset: -37.617 ms
```

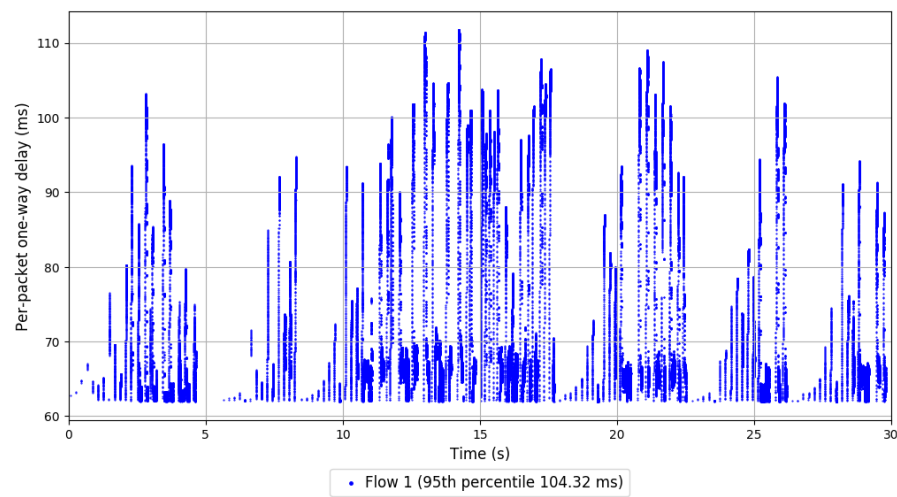Run 5: Report of TCP Vegas — Data Link
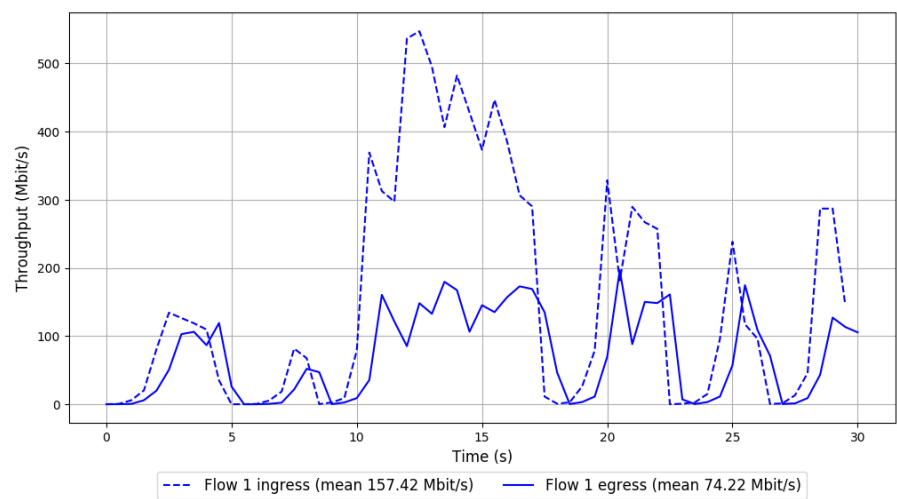
Figure is missing

Figure is missing

```
Run 1: Statistics of Verus

Start at: 2019-12-11 03:01:16
End at: 2019-12-11 03:01:46
Local clock offset: 0.731 ms
Remote clock offset: -40.188 ms

# Below is generated by plot.py at 2019-12-11 05:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.22 Mbit/s
95th percentile per-packet one-way delay: 104.323 ms
Loss rate: 52.85%
-- Flow 1:
Average throughput: 74.22 Mbit/s
95th percentile per-packet one-way delay: 104.323 ms
Loss rate: 52.85%
```
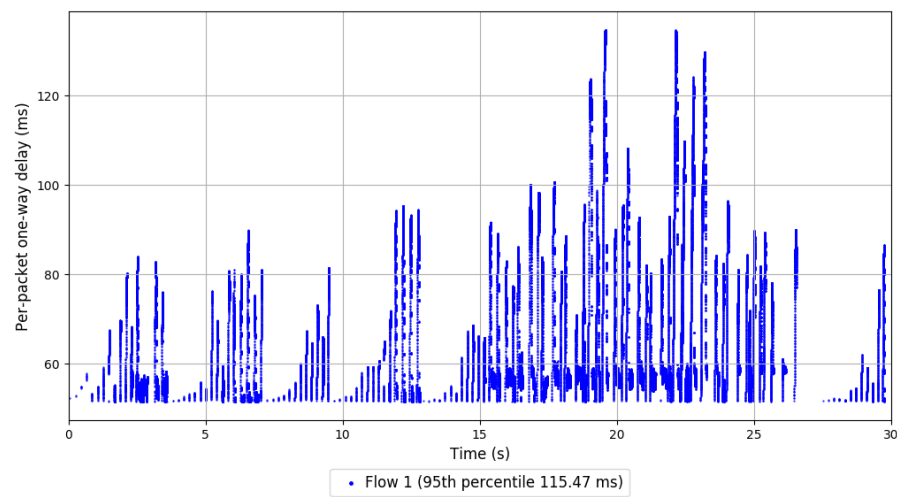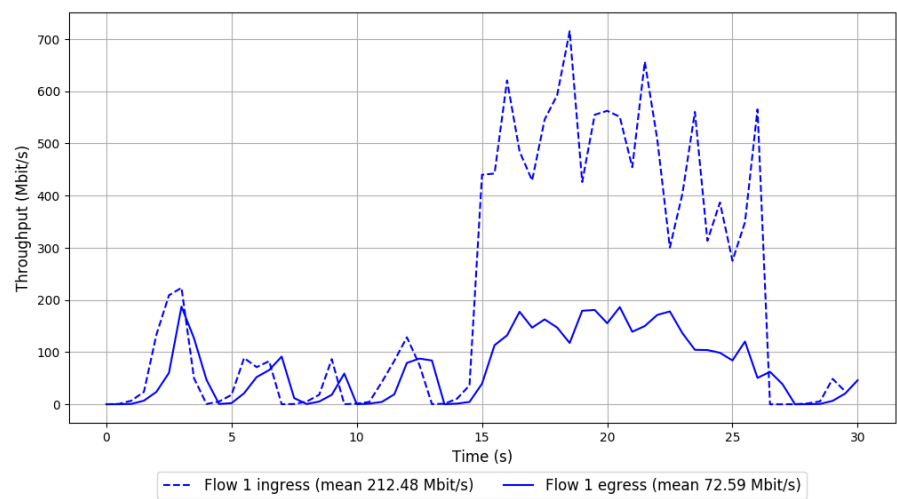
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2019-12-11 03:32:04
End at: 2019-12-11 03:32:34
Local clock offset: 4.075 ms
Remote clock offset: -47.881 ms

# Below is generated by plot.py at 2019-12-11 05:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.59 Mbit/s
95th percentile per-packet one-way delay: 115.467 ms
Loss rate: 65.84%
-- Flow 1:
Average throughput: 72.59 Mbit/s
95th percentile per-packet one-way delay: 115.467 ms
Loss rate: 65.84%
```

Run 2: Report of Verus — Data Link

Flow 1 ingress (mean 212.48 Mbit/s) —— Flow 1 egress (mean 72.59 Mbit/s)

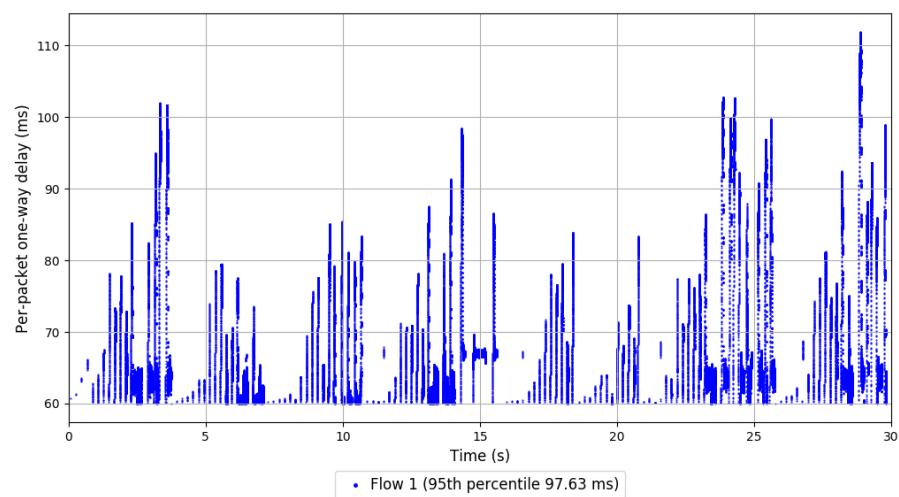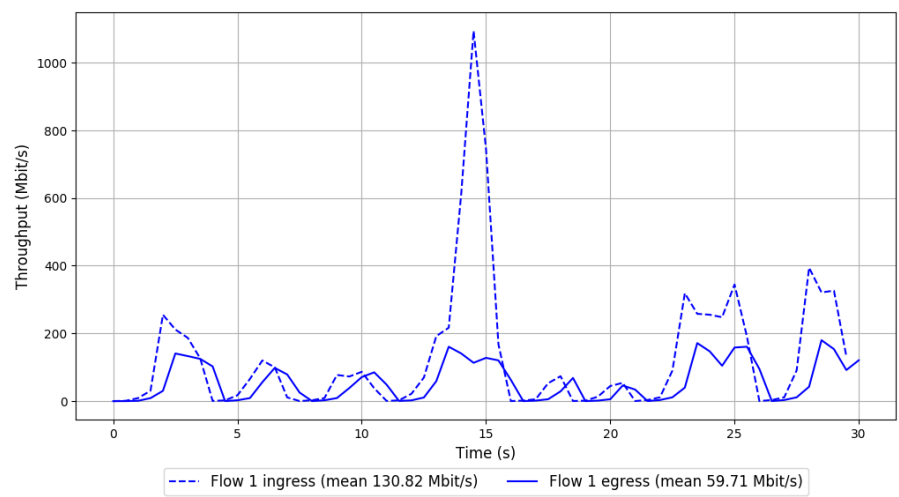· Flow 1 (95th percentile 115.47 ms)

```
Run 3: Statistics of Verus

Start at: 2019-12-11 04:02:50
End at: 2019-12-11 04:03:20
Local clock offset: 3.891 ms
Remote clock offset: -37.644 ms


# Below is generated by plot.py at 2019-12-11 05:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.71 Mbit/s
95th percentile per-packet one-way delay: 97.626 ms
Loss rate: 54.35%
-- Flow 1:
Average throughput: 59.71 Mbit/s
95th percentile per-packet one-way delay: 97.626 ms
Loss rate: 54.35%
```
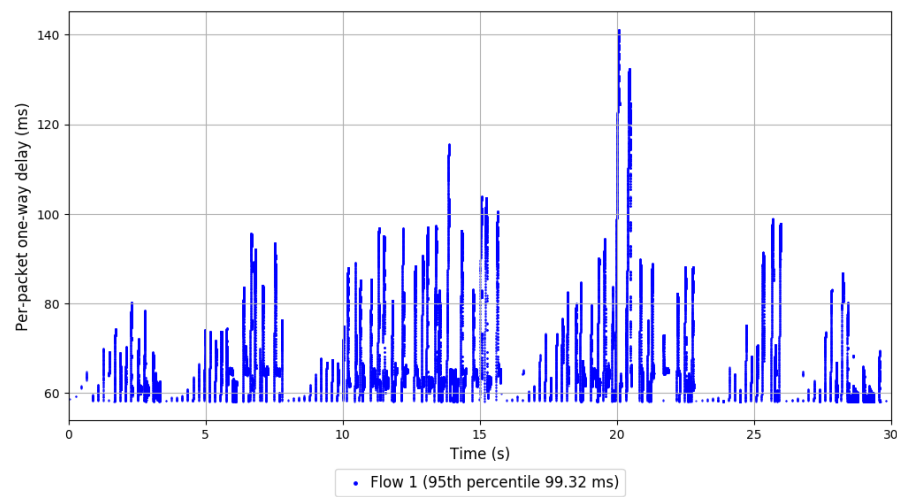
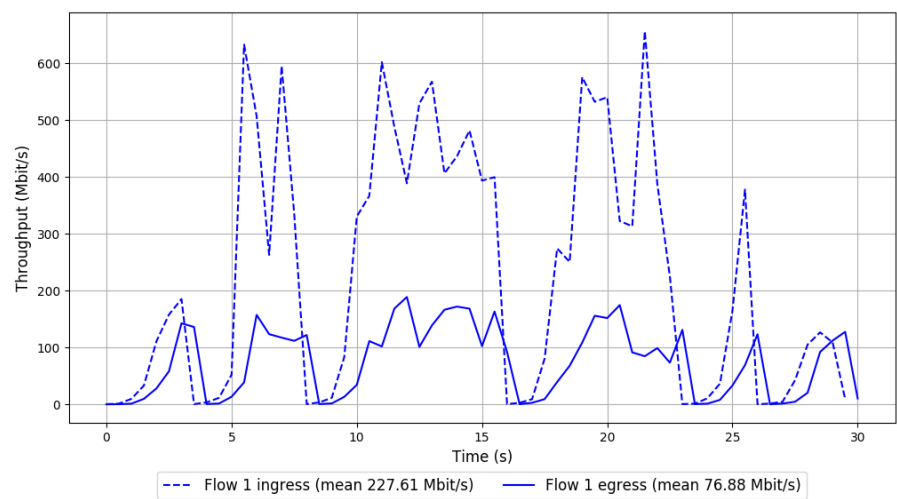## Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2019-12-11 04:33:34
End at: 2019-12-11 04:34:04
Local clock offset: 2.247 ms
Remote clock offset: -43.163 ms

# Below is generated by plot.py at 2019-12-11 05:44:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.88 Mbit/s
95th percentile per-packet one-way delay: 99.324 ms
Loss rate: 66.22%
-- Flow 1:
Average throughput: 76.88 Mbit/s
95th percentile per-packet one-way delay: 99.324 ms
Loss rate: 66.22%
```

Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 227.61 Mbit/s) ----   Flow 1 egress (mean 76.88 Mbit/s) ——
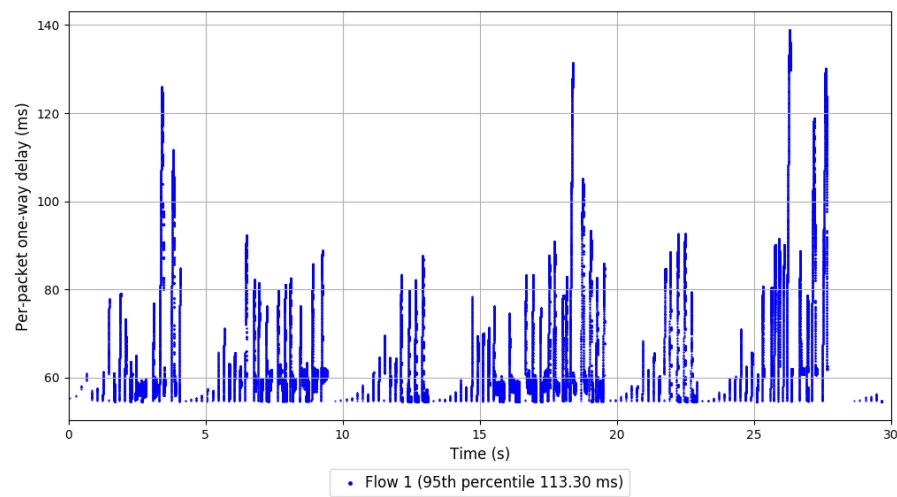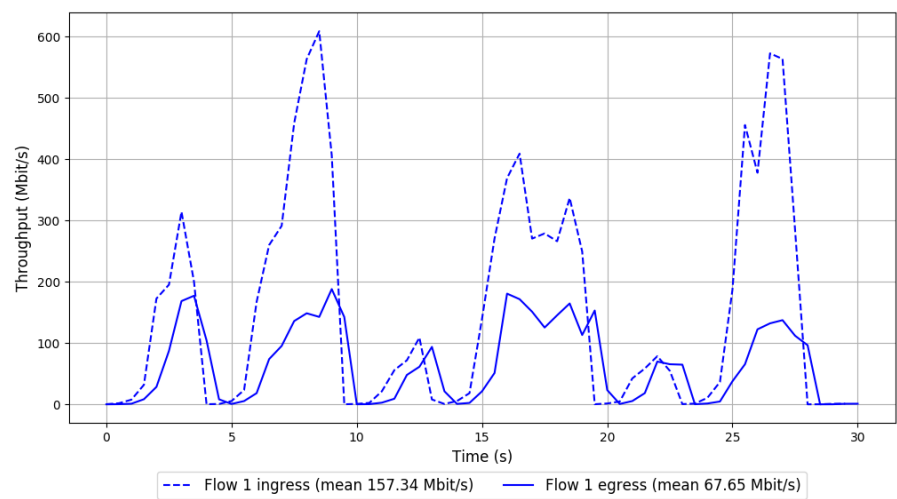

• Flow 1 (95th percentile 99.32 ms)

```
Run 5: Statistics of Verus

Start at: 2019-12-11 05:04:22
End at: 2019-12-11 05:04:52
Local clock offset: 0.299 ms
Remote clock offset: -46.537 ms


# Below is generated by plot.py at 2019-12-11 05:44:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.65 Mbit/s
95th percentile per-packet one-way delay: 113.300 ms
Loss rate: 57.01%
-- Flow 1:
Average throughput: 67.65 Mbit/s
95th percentile per-packet one-way delay: 113.300 ms
Loss rate: 57.01%
```
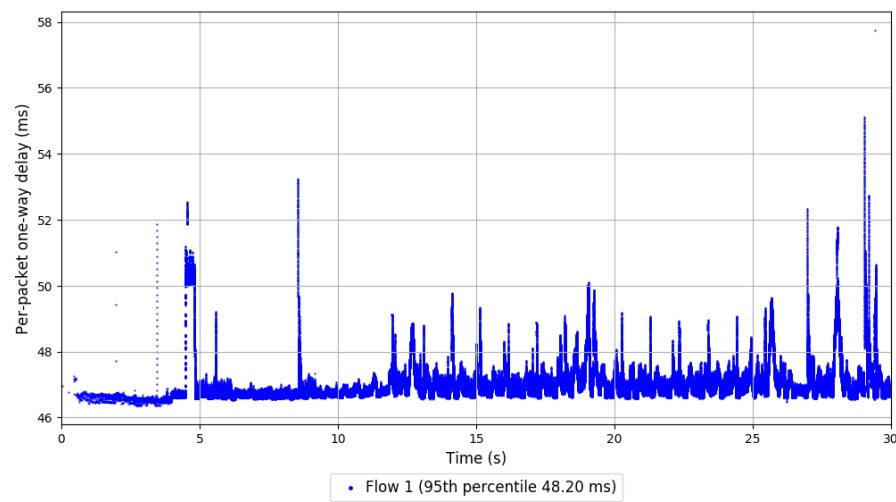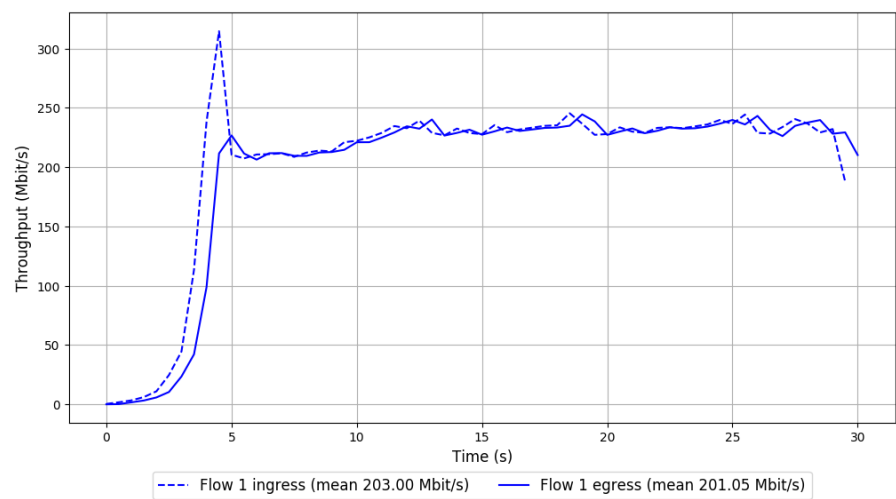
Run 5: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2019-12-11 03:02:32
End at: 2019-12-11 03:03:02
Local clock offset: 5.904 ms
Remote clock offset: -48.087 ms


# Below is generated by plot.py at 2019-12-11 05:45:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.05 Mbit/s
95th percentile per-packet one-way delay: 48.196 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 201.05 Mbit/s
95th percentile per-packet one-way delay: 48.196 ms
Loss rate: 0.96%
```
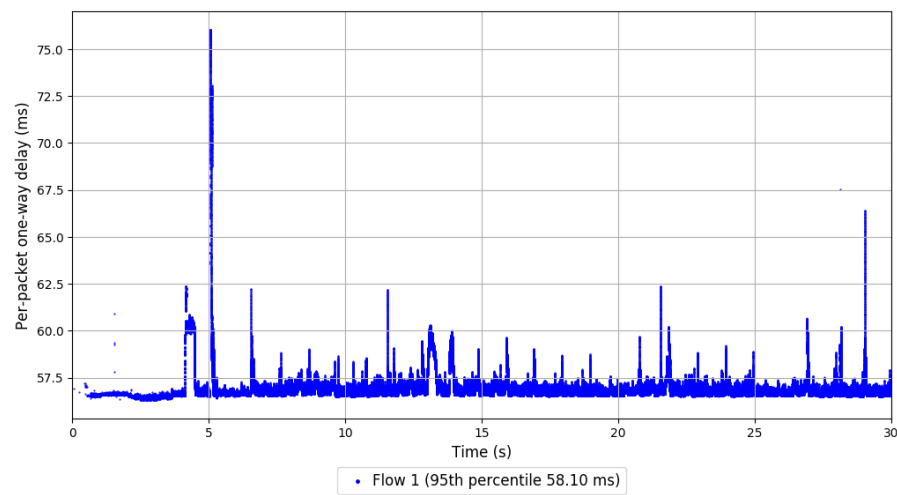
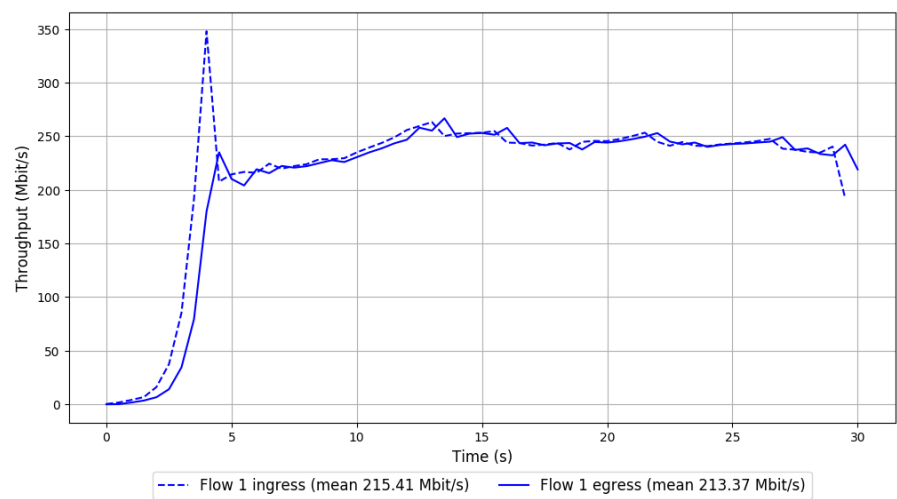## Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2019-12-11 03:33:21
End at: 2019-12-11 03:33:51
Local clock offset: 6.441 ms
Remote clock offset: -40.611 ms


# Below is generated by plot.py at 2019-12-11 05:46:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.37 Mbit/s
95th percentile per-packet one-way delay: 58.100 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 213.37 Mbit/s
95th percentile per-packet one-way delay: 58.100 ms
Loss rate: 0.94%
```
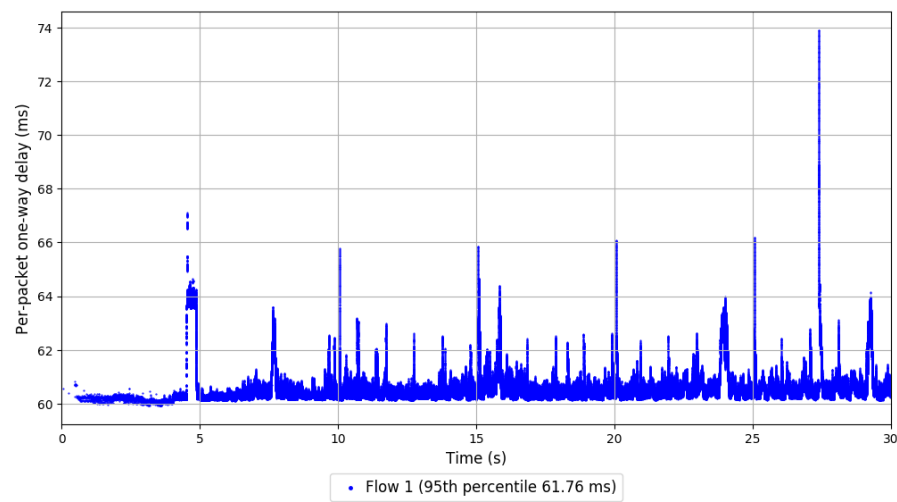
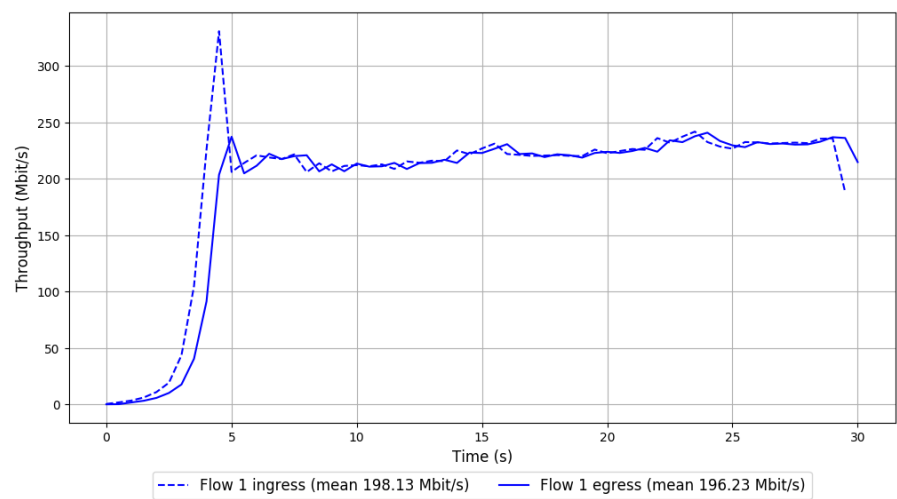# Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2019-12-11 04:04:05
End at: 2019-12-11 04:04:35
Local clock offset: 3.94 ms
Remote clock offset: -37.433 ms


# Below is generated by plot.py at 2019-12-11 05:46:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.23 Mbit/s
95th percentile per-packet one-way delay: 61.763 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 196.23 Mbit/s
95th percentile per-packet one-way delay: 61.763 ms
Loss rate: 0.96%
```

Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 198.13 Mbit/s) --- Flow 1 egress (mean 196.23 Mbit/s)
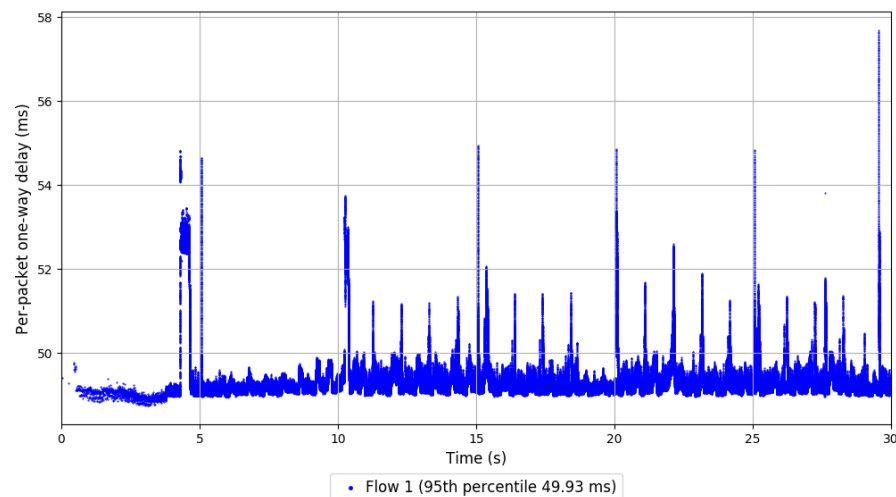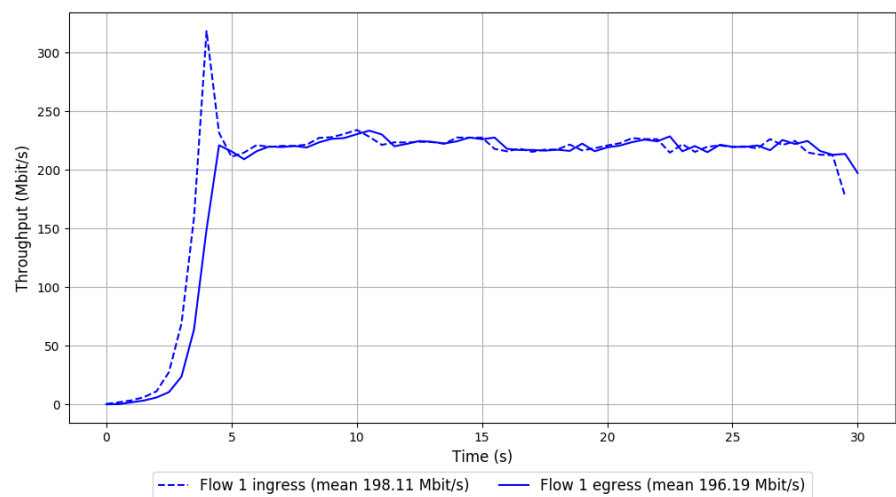

Flow 1 (95th percentile 61.76 ms)

```
Run 4: Statistics of PCC-Vivace

Start at: 2019-12-11 04:34:51
End at: 2019-12-11 04:35:21
Local clock offset: 5.543 ms
Remote clock offset: -46.742 ms


# Below is generated by plot.py at 2019-12-11 05:46:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.19 Mbit/s
95th percentile per-packet one-way delay: 49.926 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 196.19 Mbit/s
95th percentile per-packet one-way delay: 49.926 ms
Loss rate: 0.97%
```

Run 4: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 198.11 Mbit/s)   Flow 1 egress (mean 196.19 Mbit/s)
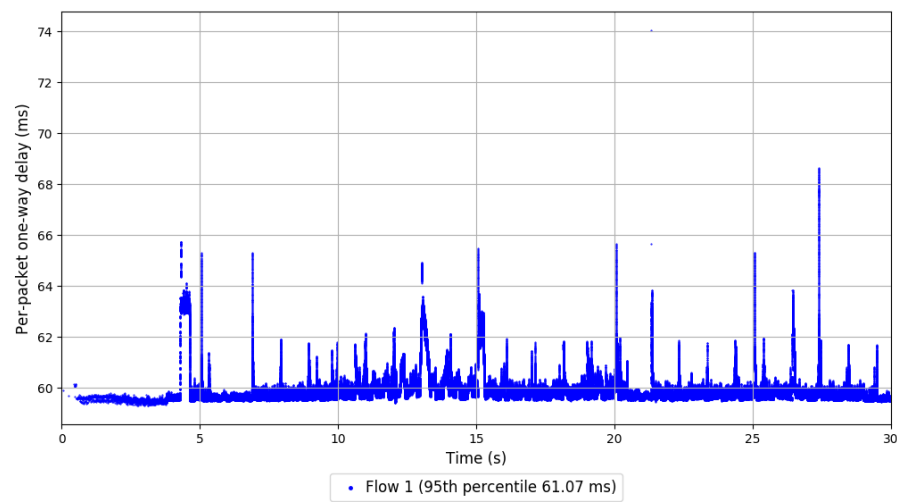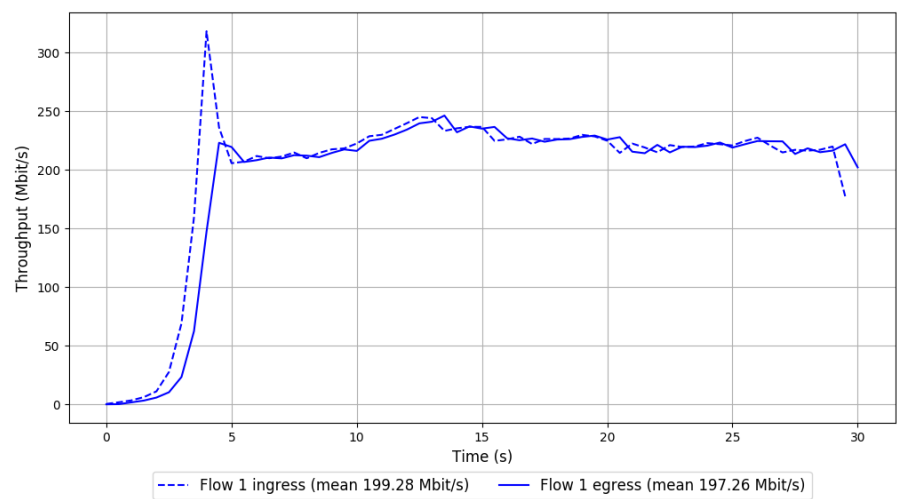

Flow 1 (95th percentile 49.93 ms)

```
Run 5: Statistics of PCC-Vivace

Start at: 2019-12-11 05:05:38
End at: 2019-12-11 05:06:08
Local clock offset: 5.952 ms
Remote clock offset: -35.891 ms


# Below is generated by plot.py at 2019-12-11 05:46:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.26 Mbit/s
95th percentile per-packet one-way delay: 61.069 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 197.26 Mbit/s
95th percentile per-packet one-way delay: 61.069 ms
Loss rate: 1.02%
```
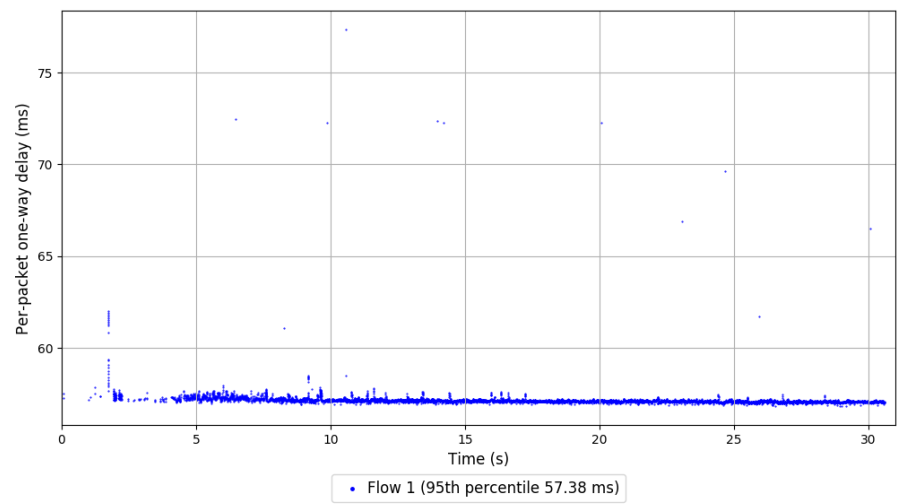
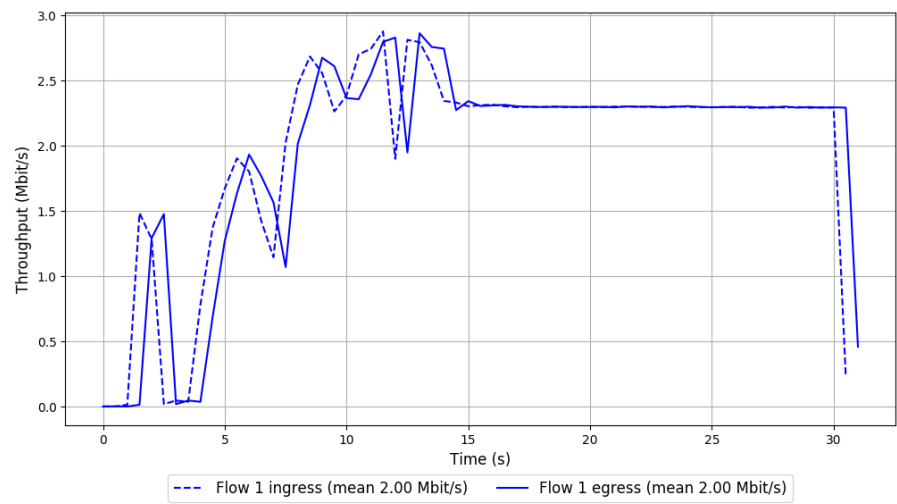# Run 5: Report of PCC-Vivace — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2019-12-11 02:57:29
End at: 2019-12-11 02:57:59
Local clock offset: 6.276 ms
Remote clock offset: -37.743 ms


# Below is generated by plot.py at 2019-12-11 05:46:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 57.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 57.380 ms
Loss rate: 0.00%
```
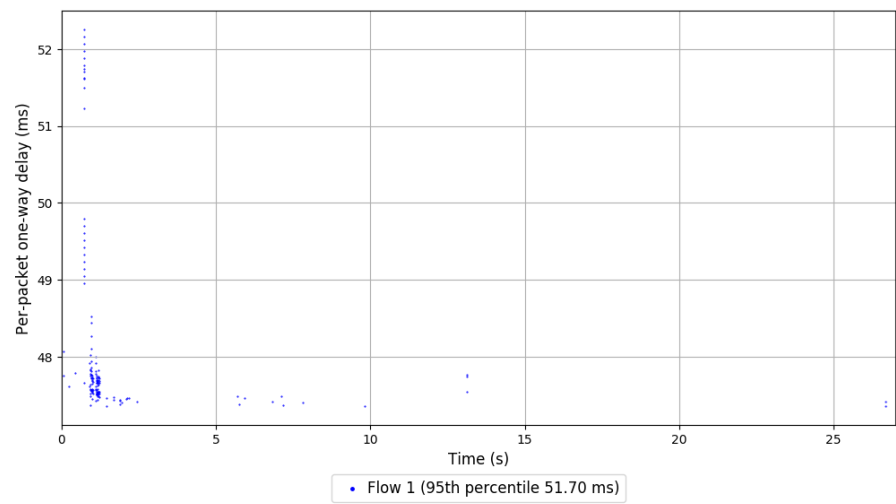
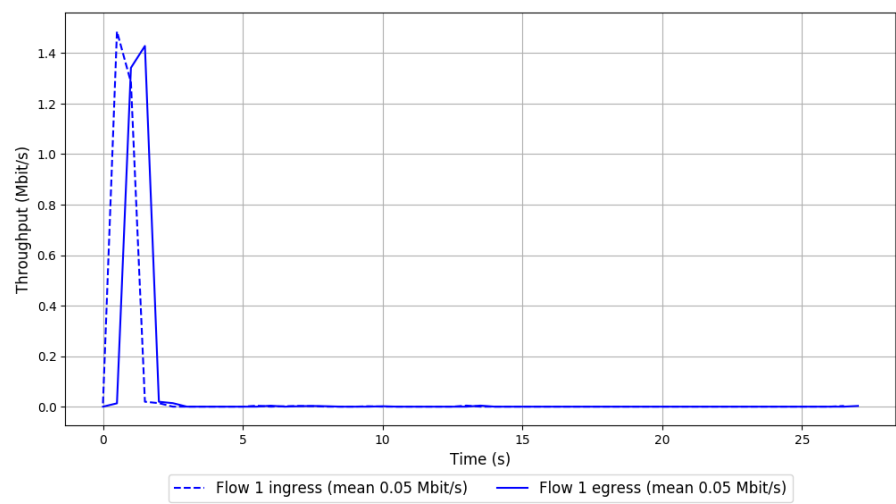Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2019-12-11 03:28:18
End at: 2019-12-11 03:28:48
Local clock offset: 5.445 ms
Remote clock offset: -48.201 ms


# Below is generated by plot.py at 2019-12-11 05:46:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.704 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.704 ms
Loss rate: 0.00%
```

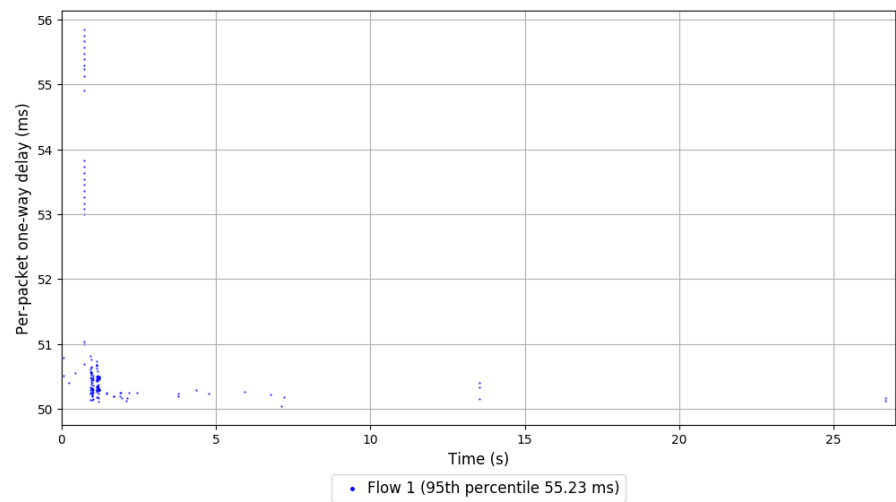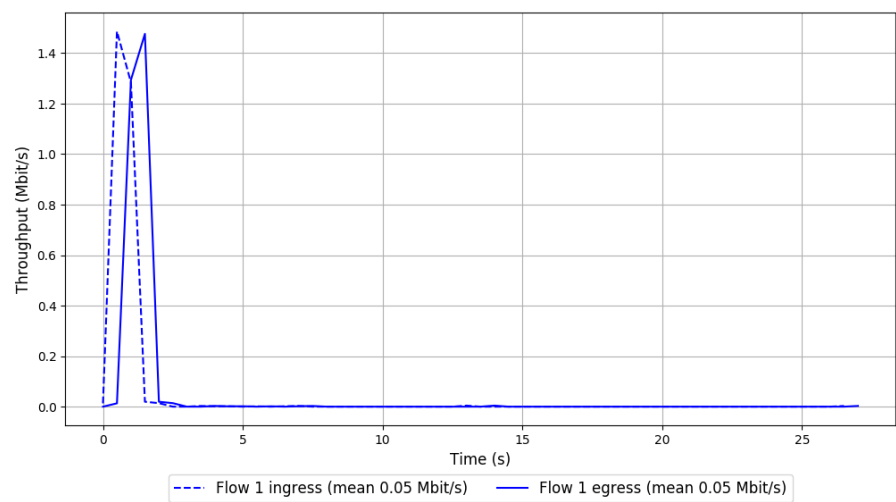Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2019-12-11 03:59:04
End at: 2019-12-11 03:59:34
Local clock offset: 4.841 ms
Remote clock offset: -44.297 ms


# Below is generated by plot.py at 2019-12-11 05:46:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 55.235 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 55.235 ms
Loss rate: 0.00%
```

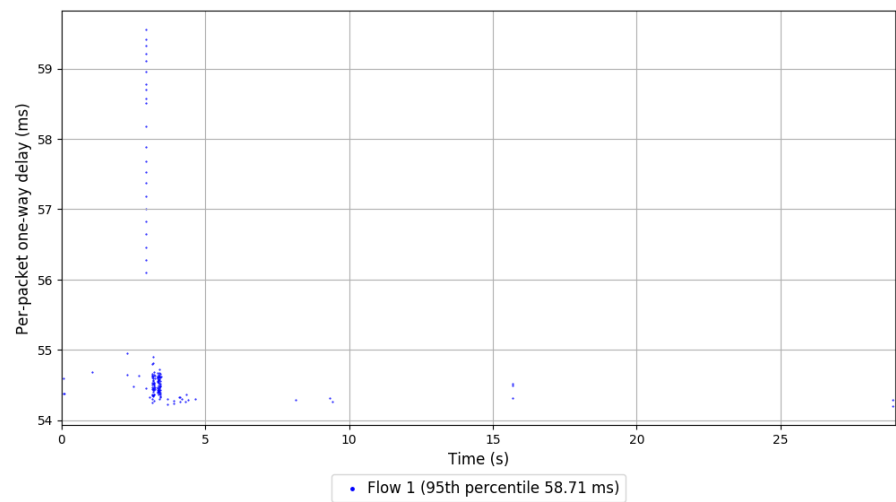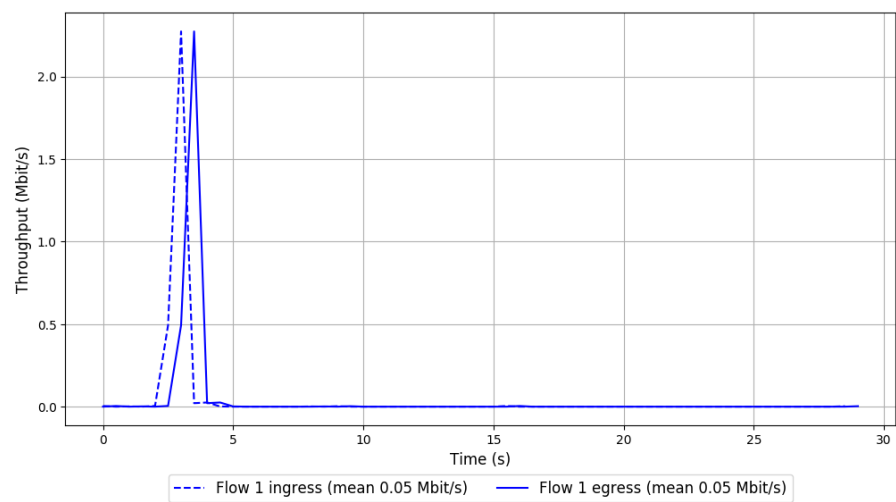# Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2019-12-11 04:29:49
End at: 2019-12-11 04:30:19
Local clock offset: 6.217 ms
Remote clock offset: -40.456 ms


# Below is generated by plot.py at 2019-12-11 05:46:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 58.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 58.708 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2019-12-11 05:00:36
End at: 2019-12-11 05:01:06
Local clock offset: 6.157 ms
Remote clock offset: -46.209 ms


# Below is generated by plot.py at 2019-12-11 05:46:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.542 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.542 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link