Pantheon Report

Generated at 2019-06-27 21:54:17 (UTC).

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

Repeated the test of 22 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.
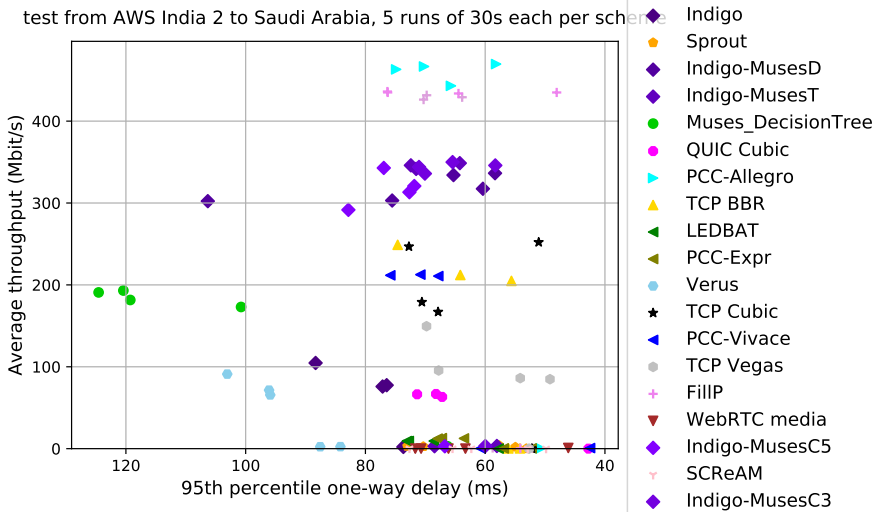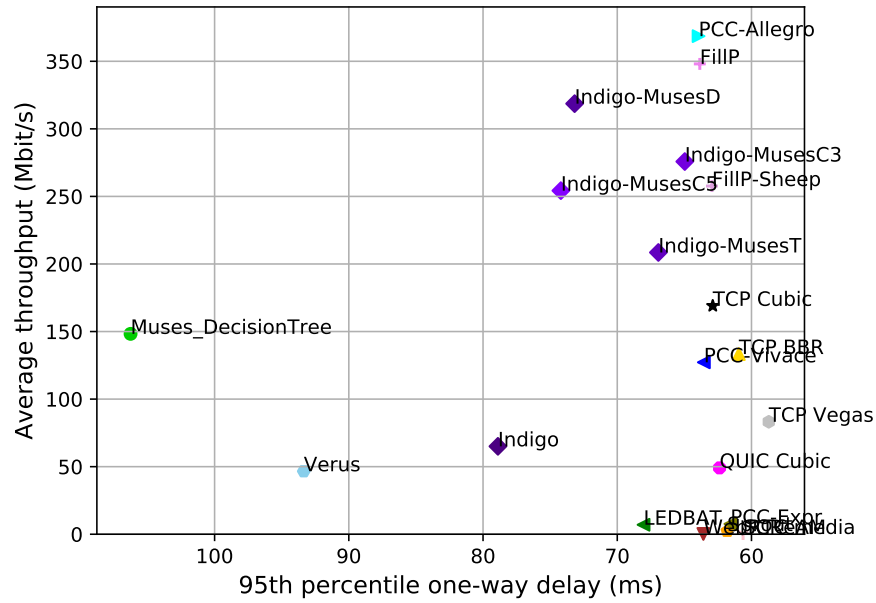
```
System info:
Linux 4.15.0-1039-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
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
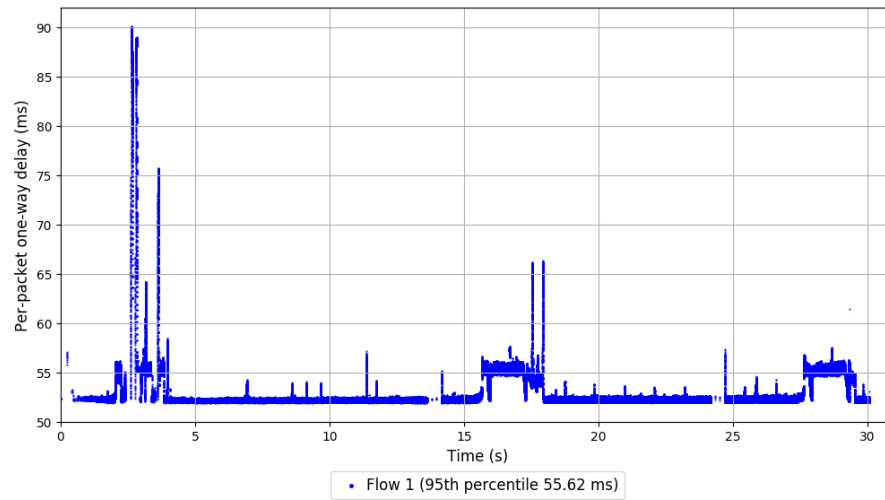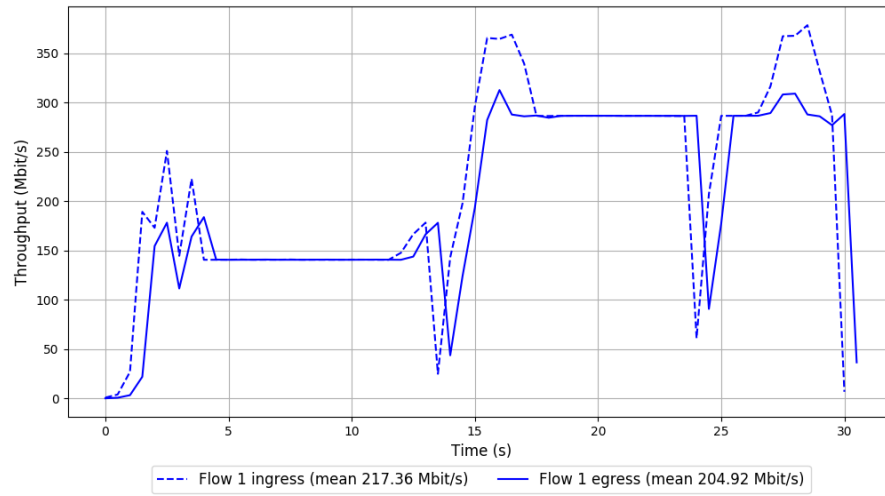### (mean of all runs by scheme)

test from AWS India 2 to Saudi Arabia, 5 runs of 30s each per scheme

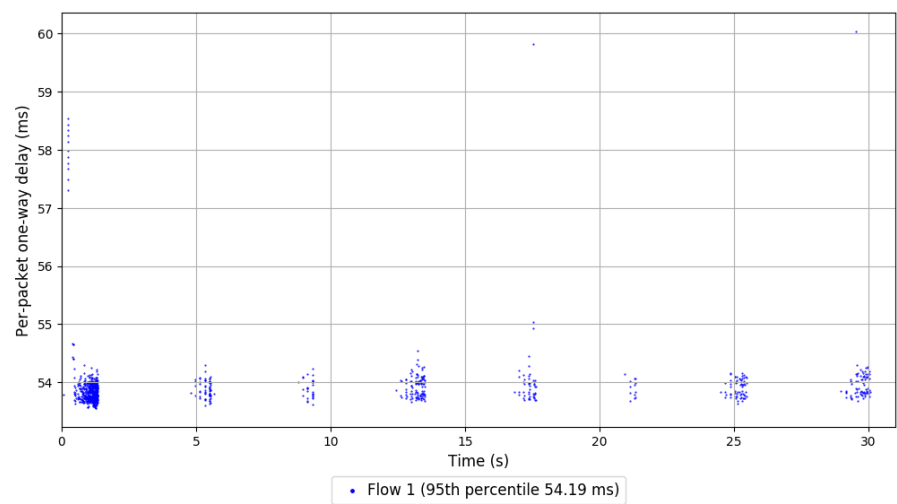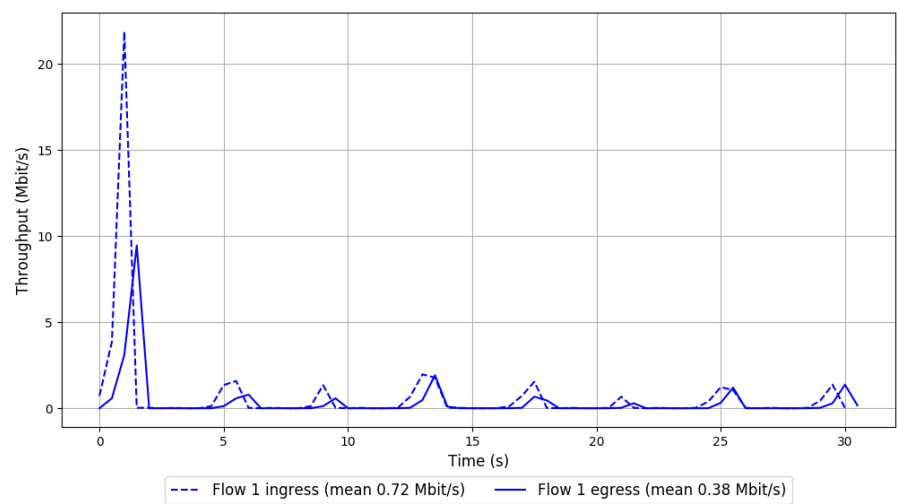| scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	133.34	60.94	23.46
Copa	0	N/A	N/A	N/A
TCP Cubic	5	169.01	62.89	9.70
FillP	5	348.07	63.85	16.33
FillP-Sheep	5	257.68	62.94	38.46
Indigo	4	65.05	78.89	18.08
Indigo-MusesC3	5	275.80	64.97	23.99
Indigo-MusesC5	5	254.26	74.20	36.84
Indigo-MusesD	5	318.64	73.18	11.75
Indigo-MusesT	5	208.52	66.94	38.46
LEDBAT	4	7.00	68.04	6.38
Muses_DecisionTree	5	148.28	106.26	55.76
PCC-Allegro	5	368.61	63.94	22.33
PCC-Expr	5	7.64	61.57	58.15
QUIC Cubic	4	49.11	62.38	13.38
SCReAM	5	0.14	60.63	15.57
Sprout	5	2.30	61.81	5.53
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	83.21	58.71	10.70
Verus	5	46.60	93.36	63.69
PCC-Vivace	5	127.22	63.55	31.15
WebRTC media	5	0.21	63.58	12.81

```
Run 1: Statistics of TCP BBR

Start at: 2019-06-27 19:06:03
End at: 2019-06-27 19:06:33
Local clock offset: -0.693 ms
Remote clock offset: -38.773 ms

# Below is generated by plot.py at 2019-06-27 21:33:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.92 Mbit/s
95th percentile per-packet one-way delay: 55.615 ms
Loss rate: 5.72%
-- Flow 1:
Average throughput: 204.92 Mbit/s
95th percentile per-packet one-way delay: 55.615 ms
Loss rate: 5.72%
```
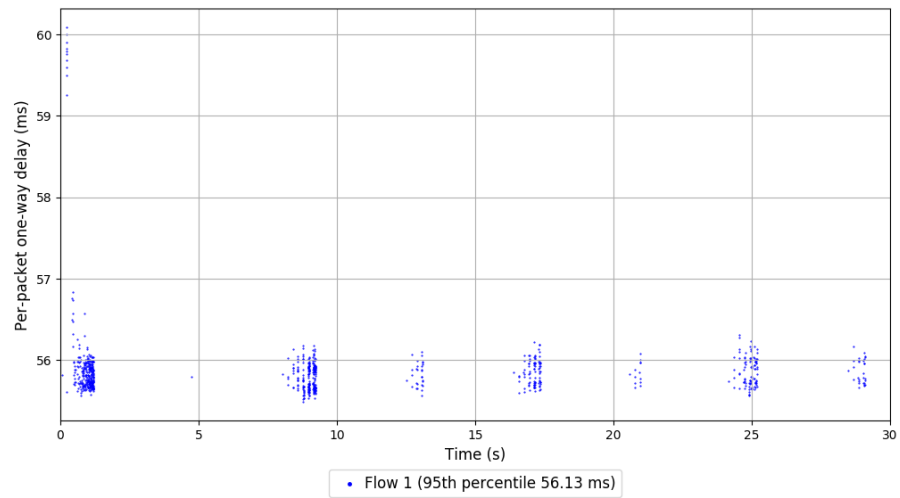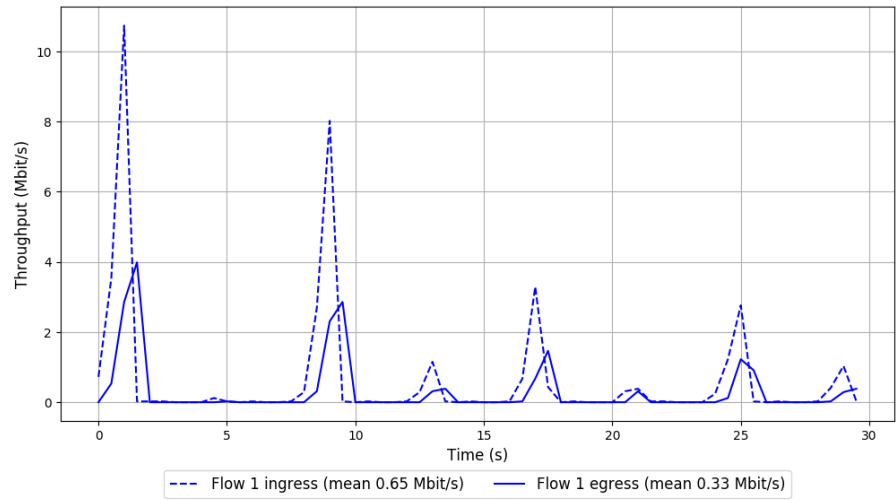
Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 217.36 Mbit/s)   Flow 1 egress (mean 204.92 Mbit/s)

Flow 1 (95th percentile 55.62 ms)

```
Run 2: Statistics of TCP BBR

Start at: 2019-06-27 19:34:51
End at: 2019-06-27 19:35:21
Local clock offset: -0.324 ms
Remote clock offset: -39.037 ms


# Below is generated by plot.py at 2019-06-27 21:33:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 54.190 ms
Loss rate: 47.78%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 54.190 ms
Loss rate: 47.78%
```
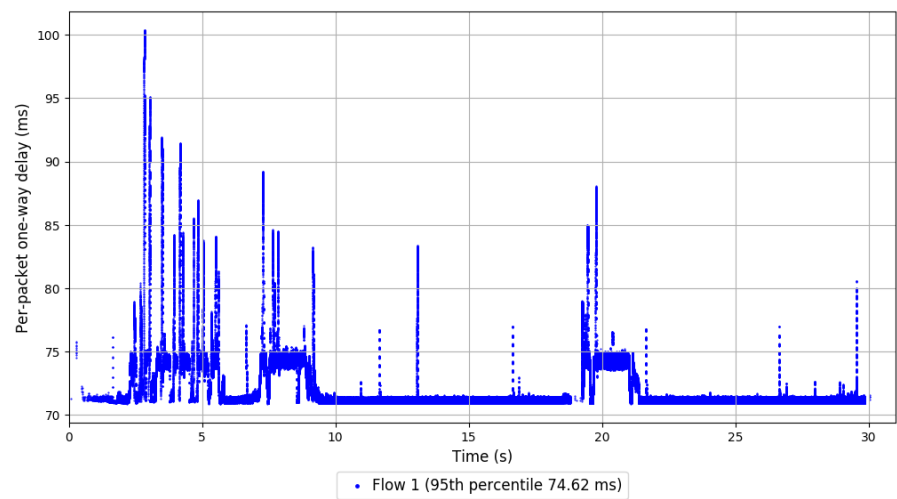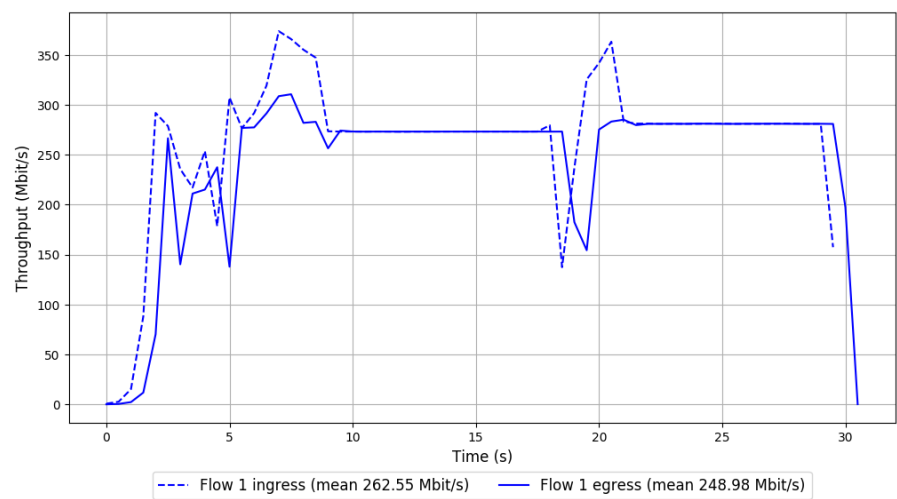
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2019-06-27 20:03:00
End at: 2019-06-27 20:03:30
Local clock offset: 1.064 ms
Remote clock offset: -34.489 ms


# Below is generated by plot.py at 2019-06-27 21:33:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 56.131 ms
Loss rate: 50.99%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 56.131 ms
Loss rate: 50.99%
```
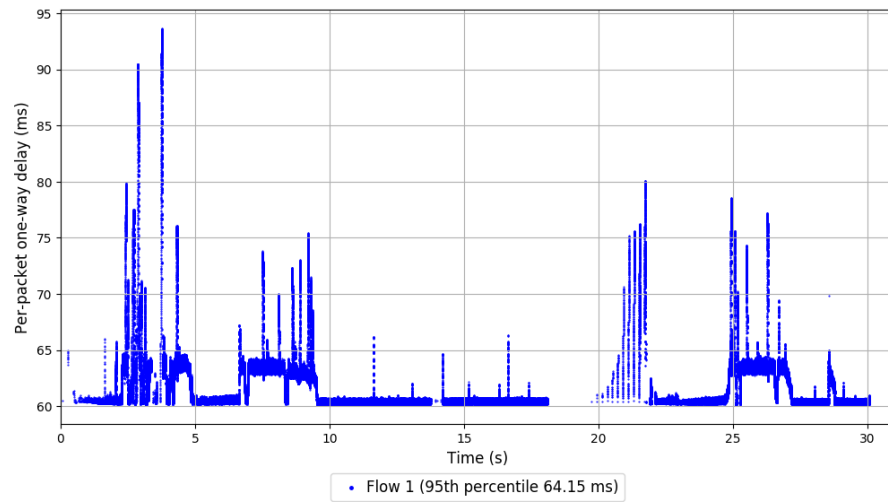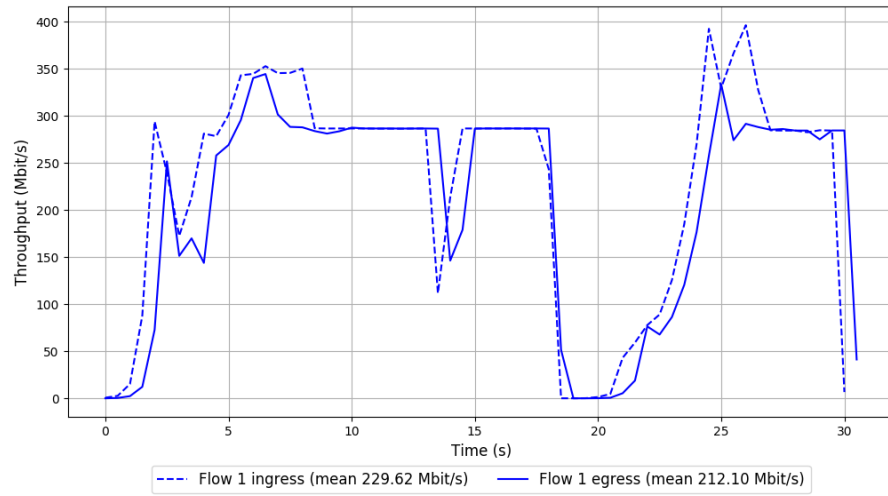
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 0.65 Mbit/s) --- Flow 1 egress (mean 0.33 Mbit/s)

• Flow 1 (95th percentile 56.13 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2019-06-27 20:31:35
End at: 2019-06-27 20:32:05
Local clock offset: -1.047 ms
Remote clock offset: -29.845 ms

# Below is generated by plot.py at 2019-06-27 21:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.98 Mbit/s
95th percentile per-packet one-way delay: 74.616 ms
Loss rate: 5.17%
-- Flow 1:
Average throughput: 248.98 Mbit/s
95th percentile per-packet one-way delay: 74.616 ms
Loss rate: 5.17%
```

Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 262.55 Mbit/s)   Flow 1 egress (mean 248.98 Mbit/s)

• Flow 1 (95th percentile 74.62 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2019-06-27 21:00:28
End at: 2019-06-27 21:00:58
Local clock offset: -4.109 ms
Remote clock offset: -43.147 ms

# Below is generated by plot.py at 2019-06-27 21:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.10 Mbit/s
95th percentile per-packet one-way delay: 64.149 ms
Loss rate: 7.63%
-- Flow 1:
Average throughput: 212.10 Mbit/s
95th percentile per-packet one-way delay: 64.149 ms
Loss rate: 7.63%
```

Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 229.62 Mbit/s)   Flow 1 egress (mean 212.10 Mbit/s)

Flow 1 (95th percentile 64.15 ms)
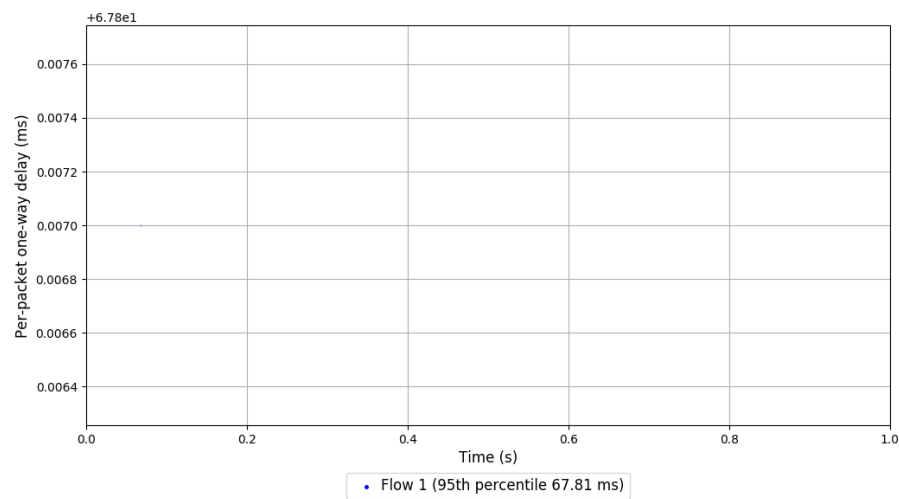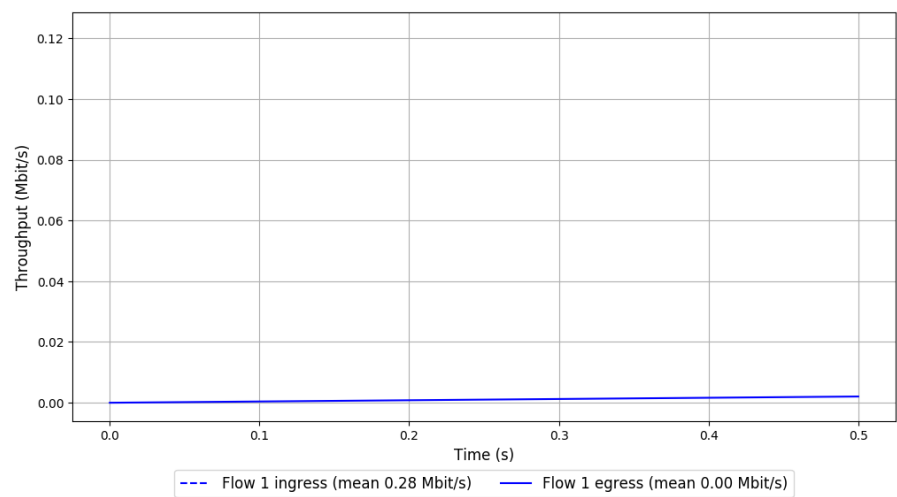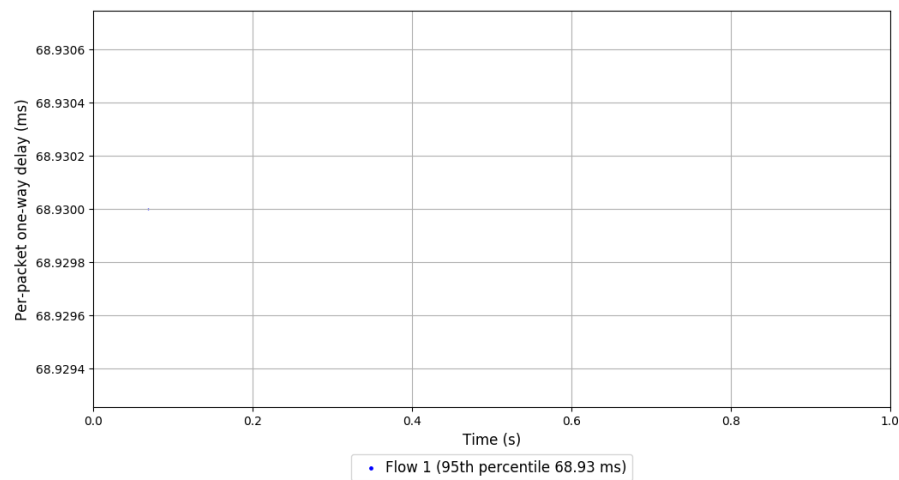
```
Run 1: Statistics of Copa

Start at: 2019-06-27 19:11:20
End at: 2019-06-27 19:11:50
Local clock offset: -2.24 ms
Remote clock offset: -38.709 ms
```

Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 0.18 Mbit/s) — Flow 1 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 55.19 ms)

```
Run 2: Statistics of Copa

Start at: 2019-06-27 19:39:58
End at: 2019-06-27 19:40:28
Local clock offset: -0.603 ms
Remote clock offset: -39.719 ms
```

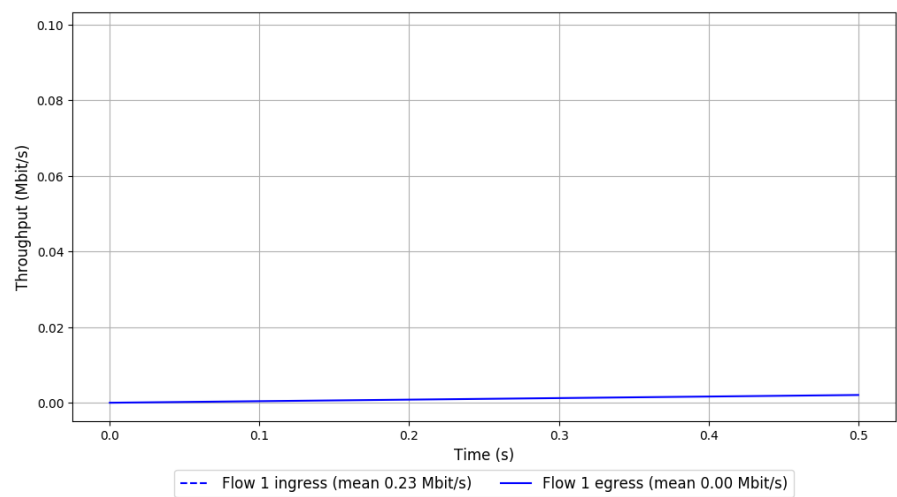Run 2: Report of Copa — Data Link

Run 3: Statistics of Copa

Start at: 2019-06-27 20:08:00
End at: 2019-06-27 20:08:30
Local clock offset: -0.419 ms
Remote clock offset: -33.344 ms
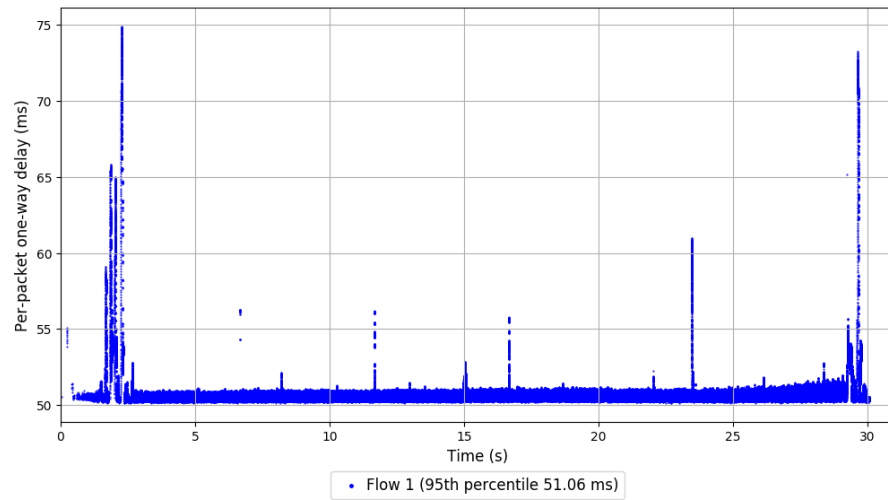
Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 0.28 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 67.81 ms)

```
Run 4: Statistics of Copa

Start at: 2019-06-27 20:36:52
End at: 2019-06-27 20:37:22
Local clock offset: -0.857 ms
Remote clock offset: -33.564 ms
```

Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2019-06-27 21:05:40
End at: 2019-06-27 21:06:10
Local clock offset: -1.852 ms
Remote clock offset: -33.021 ms
```
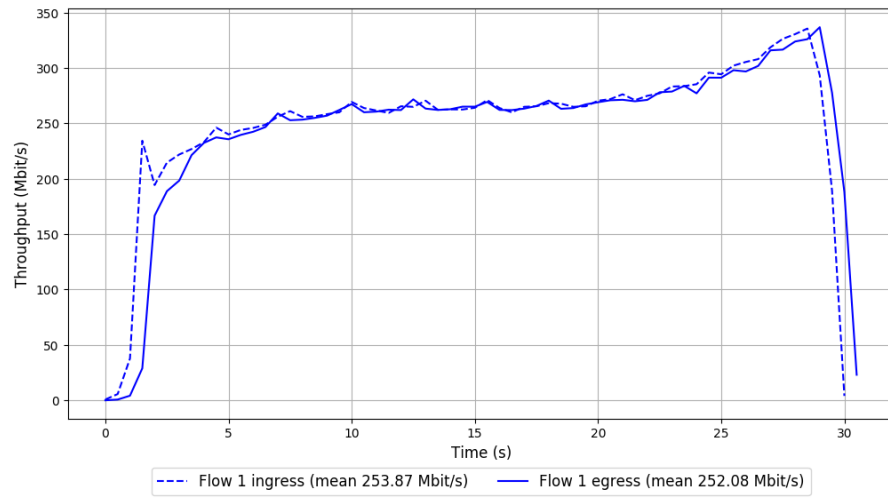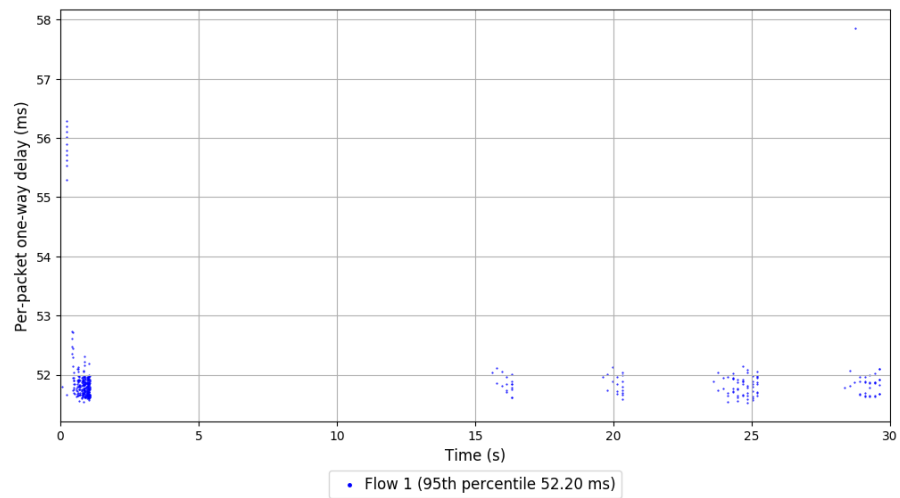
Run 5: Report of Copa — Data Link

```
Run 1: Statistics of TCP Cubic

Start at: 2019-06-27 19:12:29
End at: 2019-06-27 19:12:59
Local clock offset: -1.416 ms
Remote clock offset: -41.137 ms


# Below is generated by plot.py at 2019-06-27 21:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 252.08 Mbit/s
95th percentile per-packet one-way delay: 51.065 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 252.08 Mbit/s
95th percentile per-packet one-way delay: 51.065 ms
Loss rate: 0.71%
```
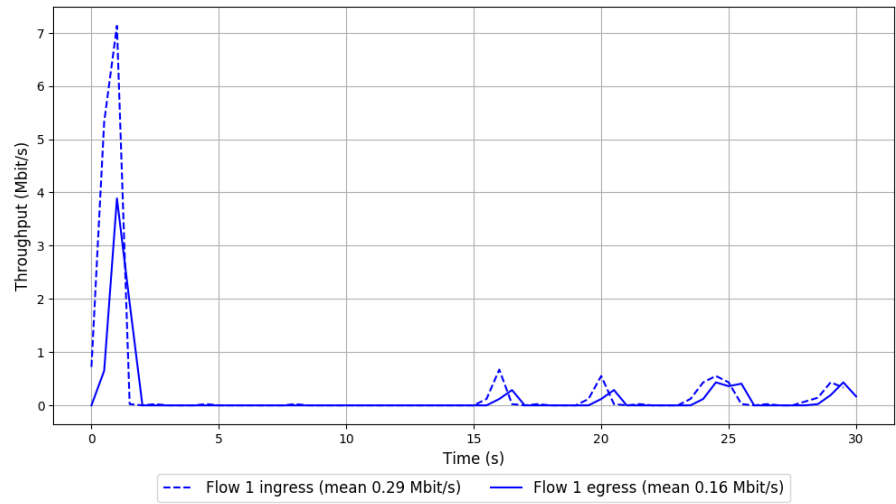
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2019-06-27 19:41:06
End at: 2019-06-27 19:41:36
Local clock offset: -0.405 ms
Remote clock offset: -39.613 ms


# Below is generated by plot.py at 2019-06-27 21:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 52.195 ms
Loss rate: 45.92%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 52.195 ms
Loss rate: 45.92%
```

Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 0.29 Mbit/s)   Flow 1 egress (mean 0.16 Mbit/s)

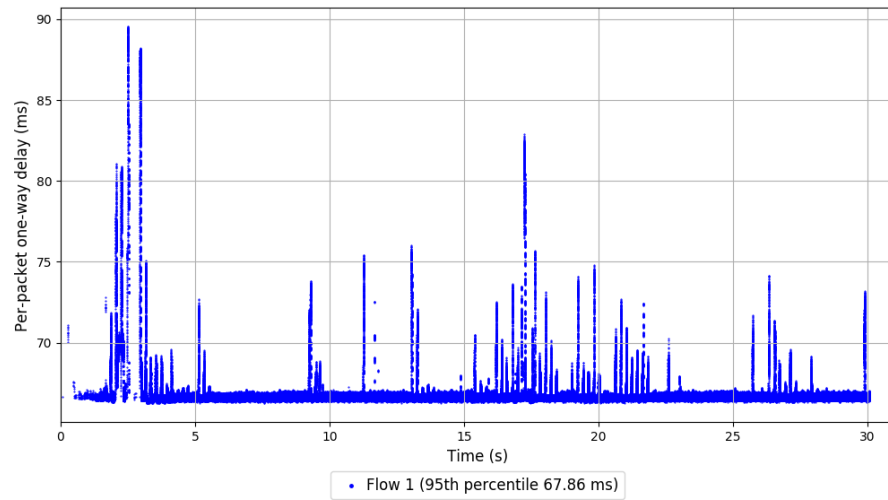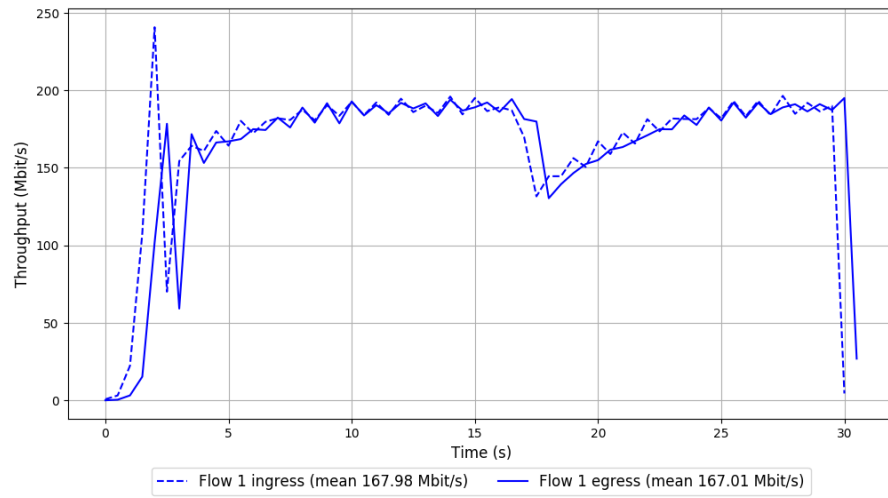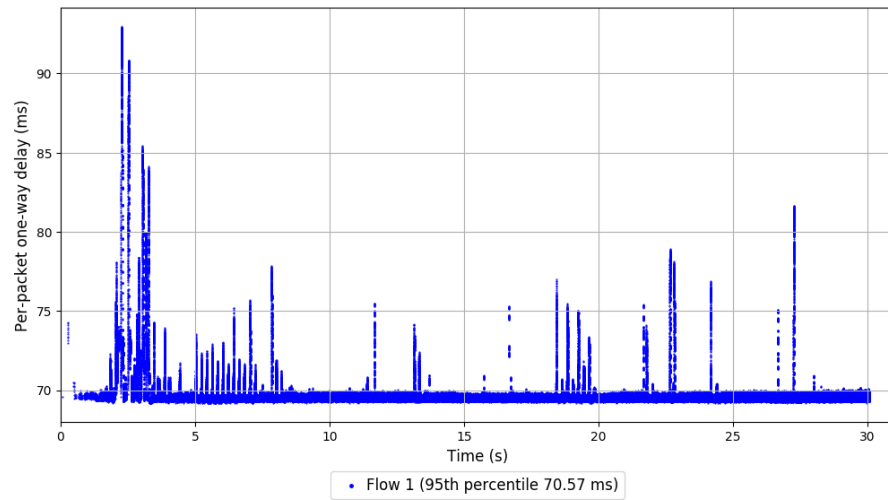• Flow 1 (95th percentile 52.20 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2019-06-27 20:09:09
End at: 2019-06-27 20:09:39
Local clock offset: -0.002 ms
Remote clock offset: -34.043 ms


# Below is generated by plot.py at 2019-06-27 21:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 167.01 Mbit/s
95th percentile per-packet one-way delay: 67.861 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 167.01 Mbit/s
95th percentile per-packet one-way delay: 67.861 ms
Loss rate: 0.58%
```
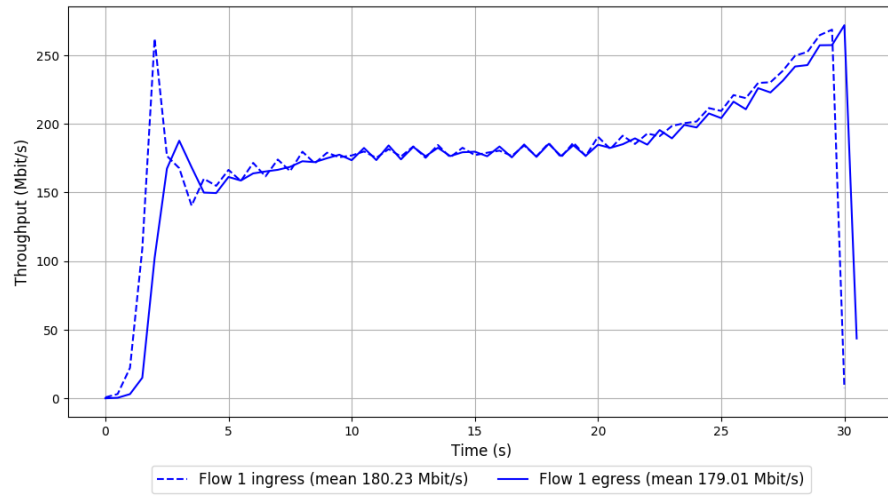
Run 3: Report of TCP Cubic — Data Link

```
Run 4: Statistics of TCP Cubic

Start at: 2019-06-27 20:38:01
End at: 2019-06-27 20:38:31
Local clock offset: -0.5 ms
Remote clock offset: -30.904 ms


# Below is generated by plot.py at 2019-06-27 21:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.01 Mbit/s
95th percentile per-packet one-way delay: 70.570 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 179.01 Mbit/s
95th percentile per-packet one-way delay: 70.570 ms
Loss rate: 0.68%
```

Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 180.23 Mbit/s) — Flow 1 egress (mean 179.01 Mbit/s)
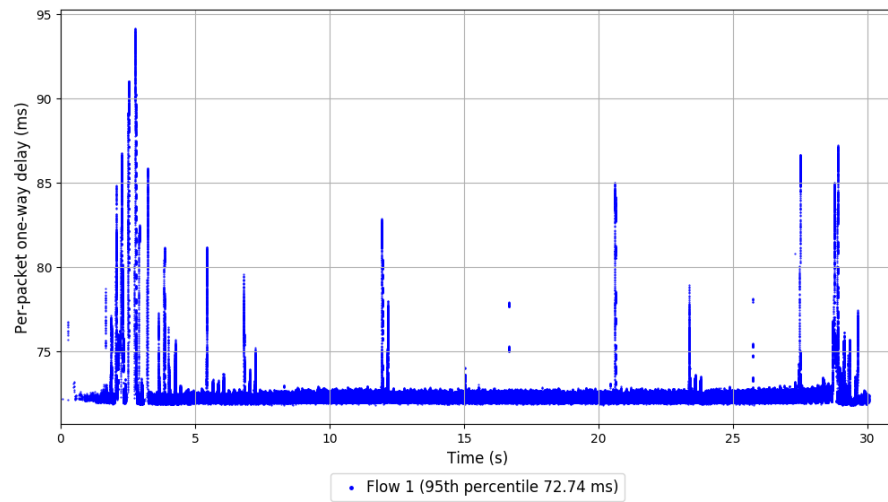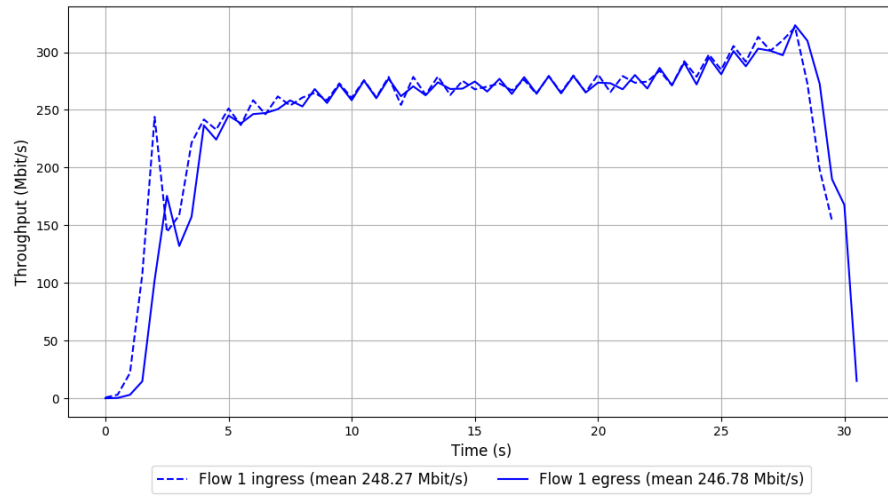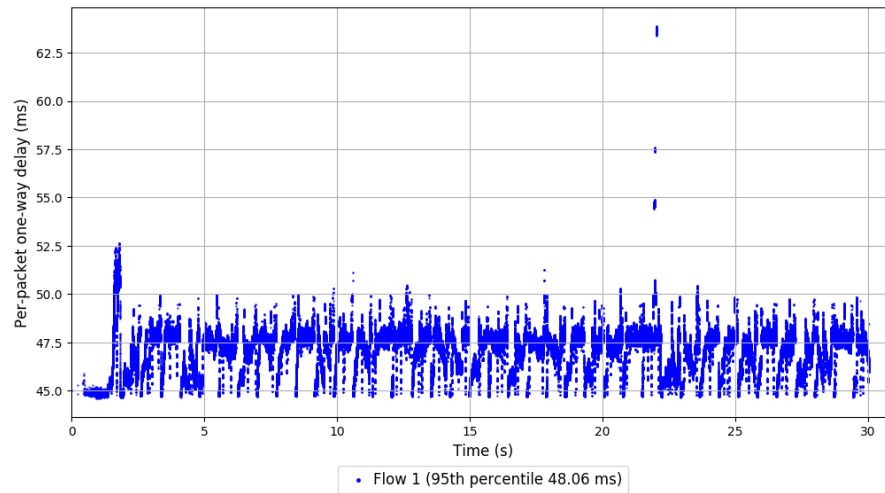

Flow 1 (95th percentile 70.57 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2019-06-27 21:06:51
End at: 2019-06-27 21:07:21
Local clock offset: -0.983 ms
Remote clock offset: -28.358 ms


# Below is generated by plot.py at 2019-06-27 21:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.78 Mbit/s
95th percentile per-packet one-way delay: 72.737 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 246.78 Mbit/s
95th percentile per-packet one-way delay: 72.737 ms
Loss rate: 0.60%
```

Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 248.27 Mbit/s)   Flow 1 egress (mean 246.78 Mbit/s)
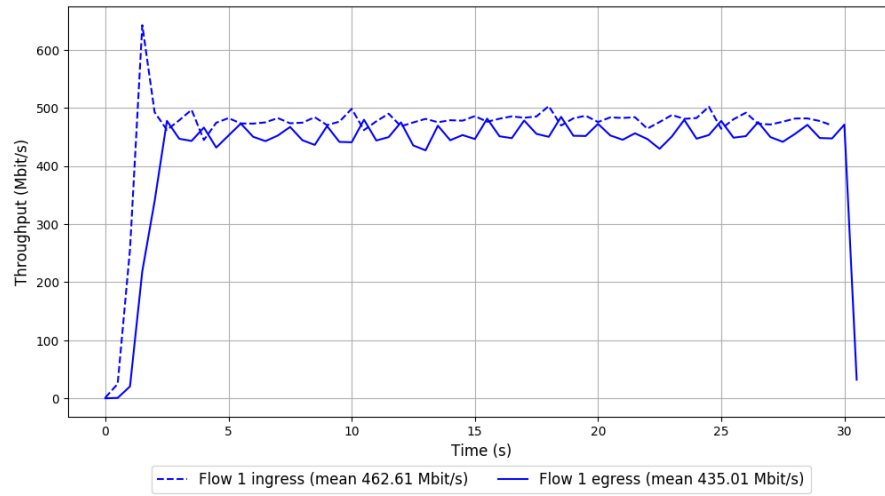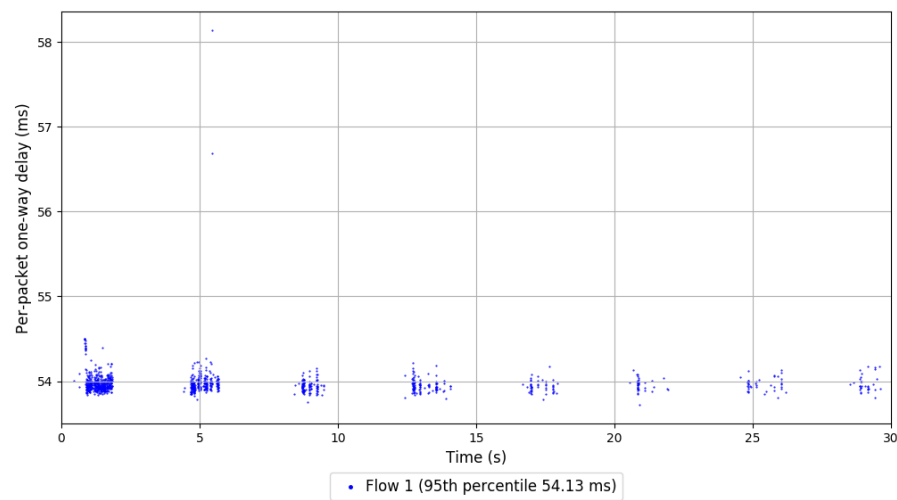

Flow 1 (95th percentile 72.74 ms)

```
Run 1: Statistics of FillP

Start at: 2019-06-27 19:21:06
End at: 2019-06-27 19:21:36
Local clock offset: -2.065 ms
Remote clock offset: -48.94 ms


# Below is generated by plot.py at 2019-06-27 21:37:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 435.01 Mbit/s
95th percentile per-packet one-way delay: 48.056 ms
Loss rate: 5.96%
-- Flow 1:
Average throughput: 435.01 Mbit/s
95th percentile per-packet one-way delay: 48.056 ms
Loss rate: 5.96%
```
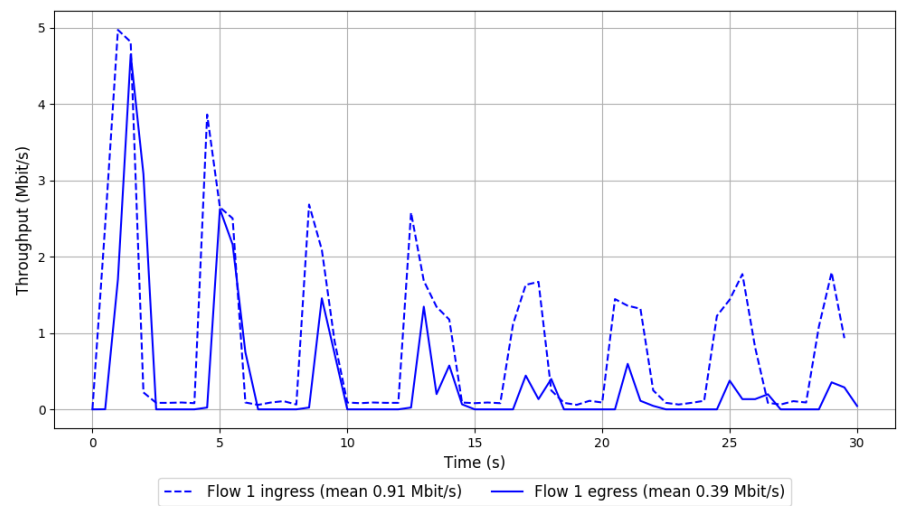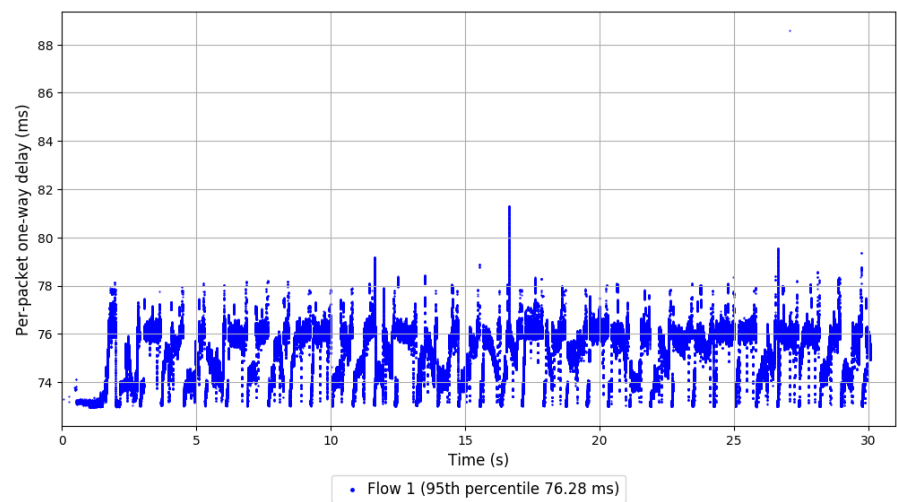
Run 1: Report of FillP — Data Link

```
Run 2: Statistics of FillP

Start at: 2019-06-27 19:50:13
End at: 2019-06-27 19:50:44
Local clock offset: 0.389 ms
Remote clock offset: -38.69 ms


# Below is generated by plot.py at 2019-06-27 21:37:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 54.127 ms
Loss rate: 58.44%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 54.127 ms
Loss rate: 58.44%
```

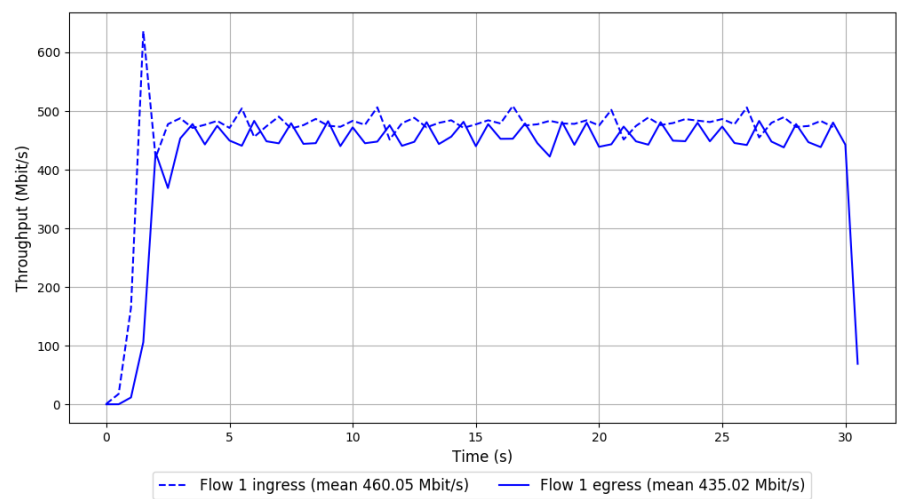## Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2019-06-27 20:18:25
End at: 2019-06-27 20:18:55
Local clock offset: -0.056 ms
Remote clock offset: -27.834 ms


# Below is generated by plot.py at 2019-06-27 21:39:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 435.02 Mbit/s
95th percentile per-packet one-way delay: 76.281 ms
Loss rate: 5.44%
-- Flow 1:
Average throughput: 435.02 Mbit/s
95th percentile per-packet one-way delay: 76.281 ms
Loss rate: 5.44%
```

Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 460.05 Mbit/s)   Flow 1 egress (mean 435.02 Mbit/s)

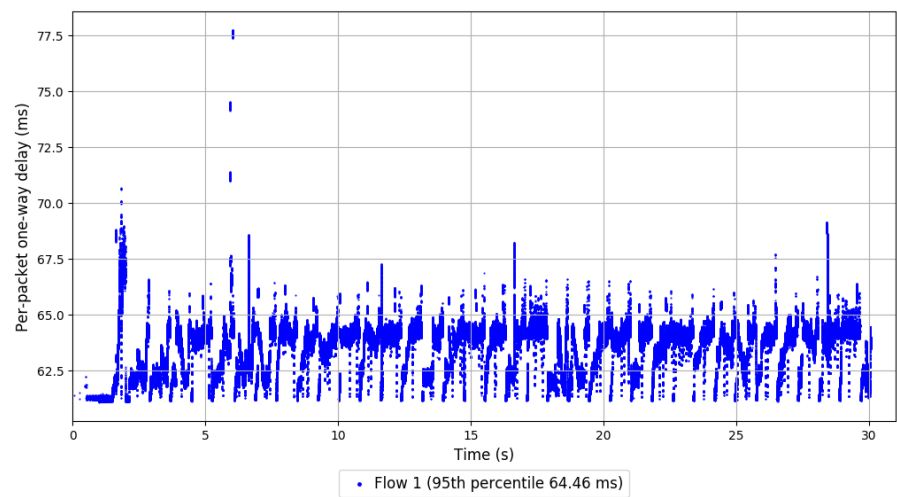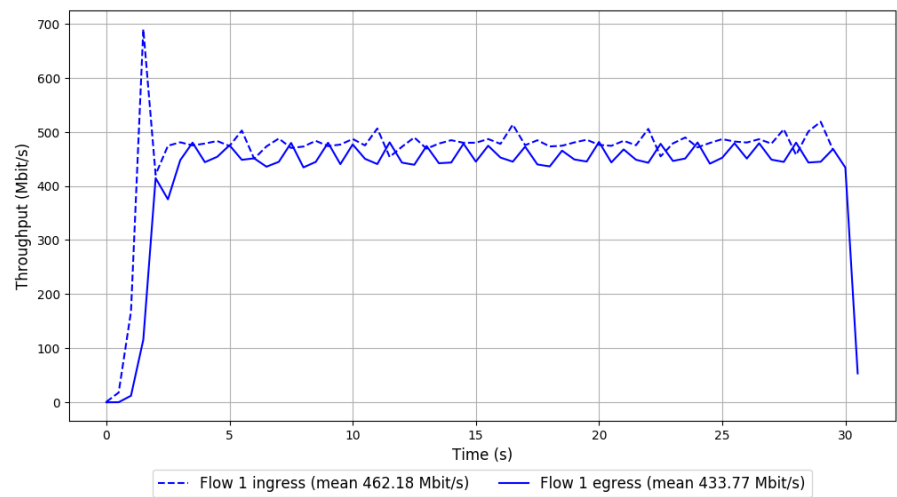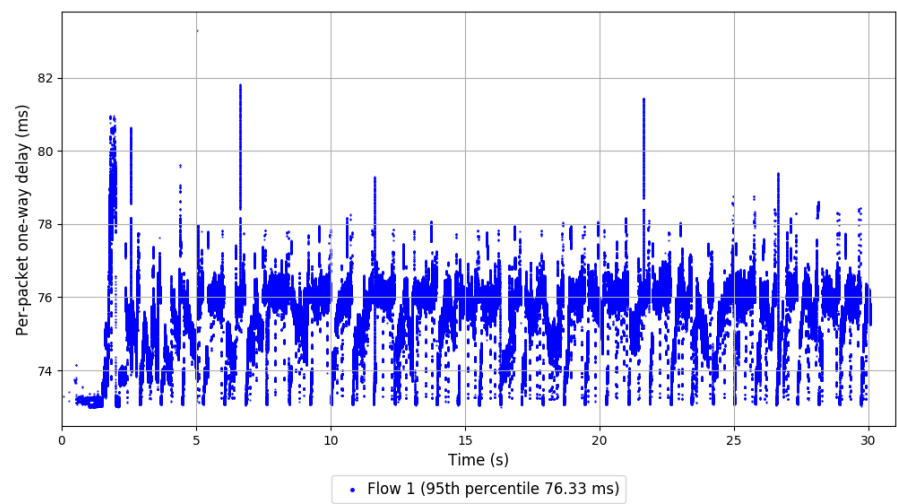Flow 1 (95th percentile 76.28 ms)

```
Run 4: Statistics of FillP

Start at: 2019-06-27 20:47:19
End at: 2019-06-27 20:47:49
Local clock offset: -1.026 ms
Remote clock offset: -39.626 ms


# Below is generated by plot.py at 2019-06-27 21:39:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 433.77 Mbit/s
95th percentile per-packet one-way delay: 64.458 ms
Loss rate: 6.14%
-- Flow 1:
Average throughput: 433.77 Mbit/s
95th percentile per-packet one-way delay: 64.458 ms
Loss rate: 6.14%
```

Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 462.18 Mbit/s)   Flow 1 egress (mean 433.77 Mbit/s)

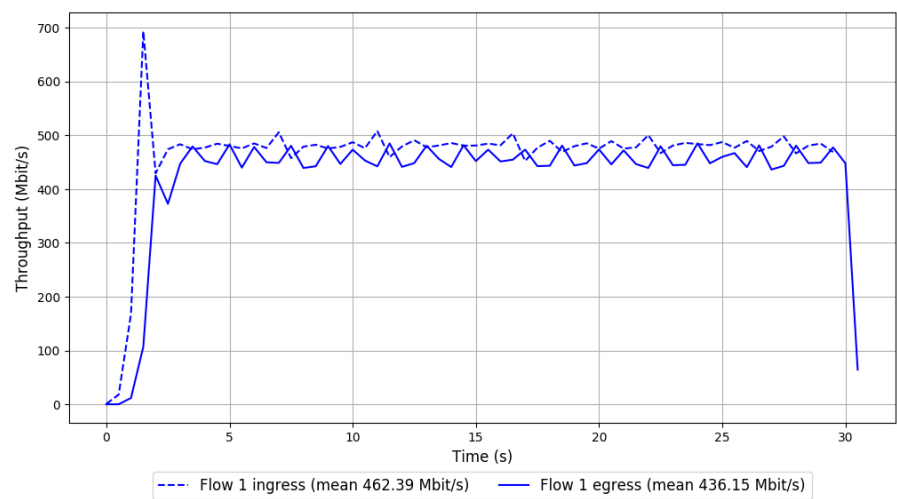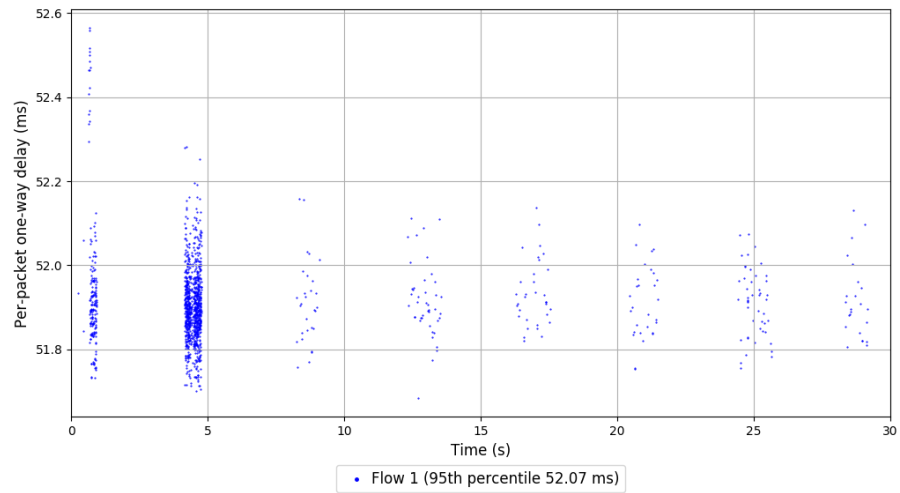Flow 1 (95th percentile 64.46 ms)

```
Run 5: Statistics of FillP

Start at: 2019-06-27 21:16:10
End at: 2019-06-27 21:16:40
Local clock offset: -1.631 ms
Remote clock offset: -27.704 ms


# Below is generated by plot.py at 2019-06-27 21:39:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 436.15 Mbit/s
95th percentile per-packet one-way delay: 76.329 ms
Loss rate: 5.67%
-- Flow 1:
Average throughput: 436.15 Mbit/s
95th percentile per-packet one-way delay: 76.329 ms
Loss rate: 5.67%
```
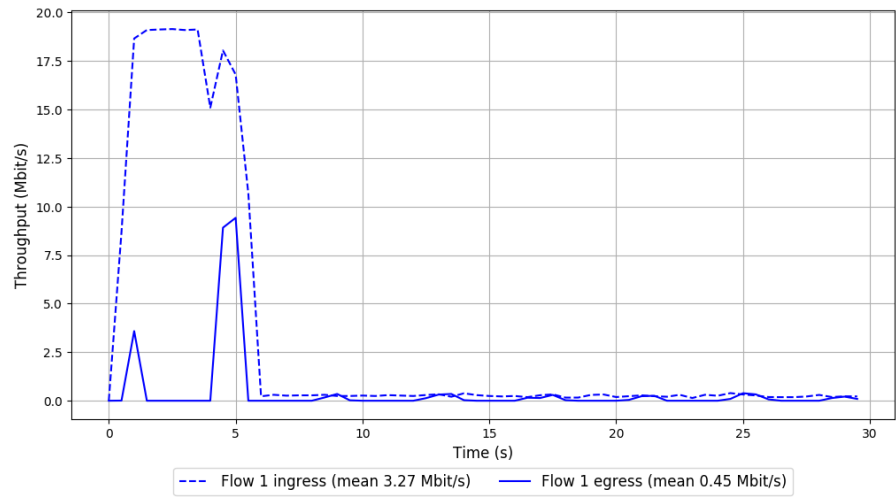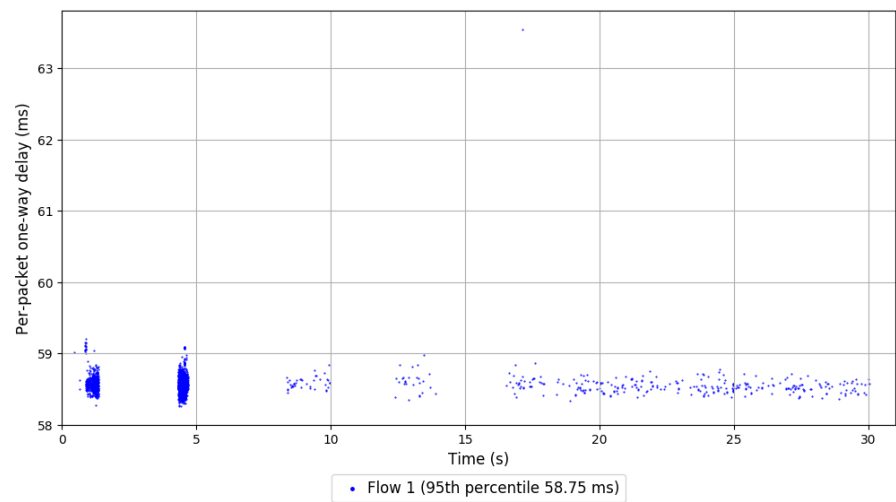
Run 5: Report of FillP — Data Link

```
Run 1: Statistics of FillP-Sheep

Start at: 2019-06-27 19:16:18
End at: 2019-06-27 19:16:48
Local clock offset: -1.727 ms
Remote clock offset: -41.524 ms


# Below is generated by plot.py at 2019-06-27 21:39:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 52.073 ms
Loss rate: 86.84%
-- Flow 1:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 52.073 ms
Loss rate: 86.84%
```

Run 1: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 3.27 Mbit/s)   Flow 1 egress (mean 0.45 Mbit/s)

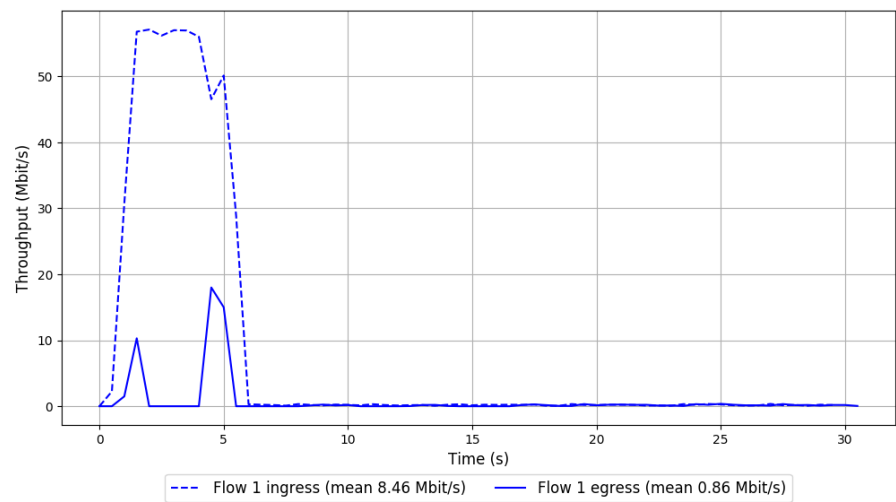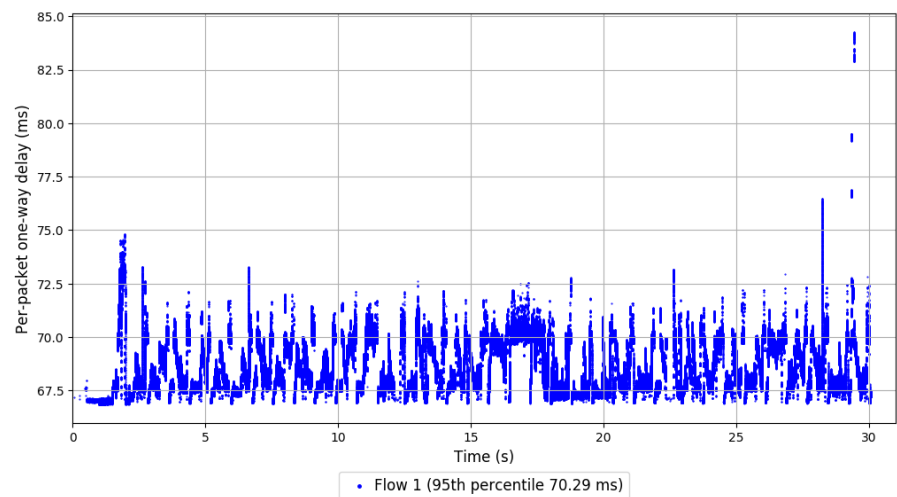

Flow 1 (95th percentile 52.07 ms)

```
Run 2: Statistics of FillP-Sheep

Start at: 2019-06-27 19:44:43
End at: 2019-06-27 19:45:13
Local clock offset: -1.589 ms
Remote clock offset: -35.864 ms


# Below is generated by plot.py at 2019-06-27 21:39:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 58.746 ms
Loss rate: 89.96%
-- Flow 1:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 58.746 ms
Loss rate: 89.96%
```
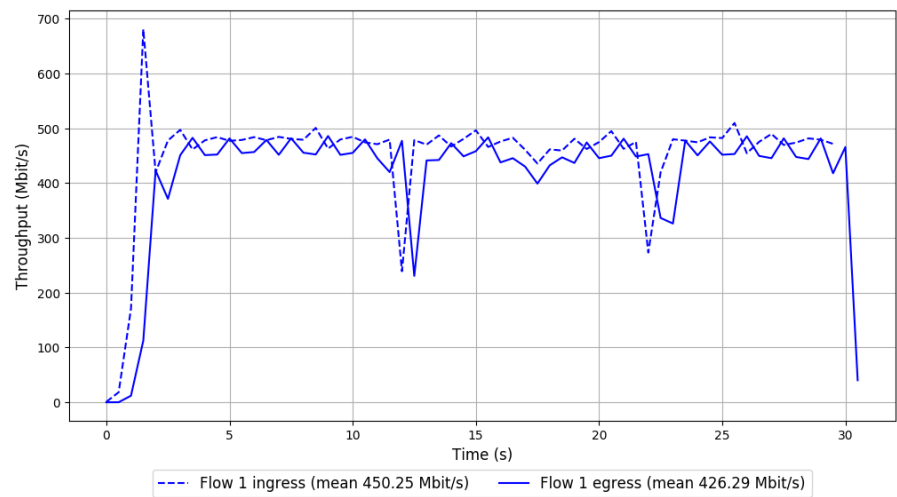
Run 2: Report of FillP-Sheep — Data Link

```
Run 3: Statistics of FillP-Sheep

Start at: 2019-06-27 20:12:57
End at: 2019-06-27 20:13:27
Local clock offset: -0.203 ms
Remote clock offset: -33.668 ms


# Below is generated by plot.py at 2019-06-27 21:39:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 426.29 Mbit/s
95th percentile per-packet one-way delay: 70.288 ms
Loss rate: 5.32%
-- Flow 1:
Average throughput: 426.29 Mbit/s
95th percentile per-packet one-way delay: 70.288 ms
Loss rate: 5.32%
```
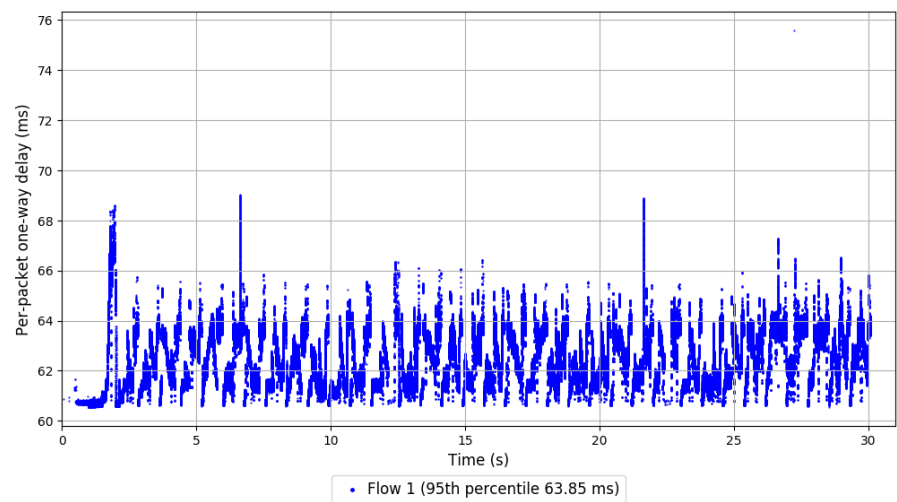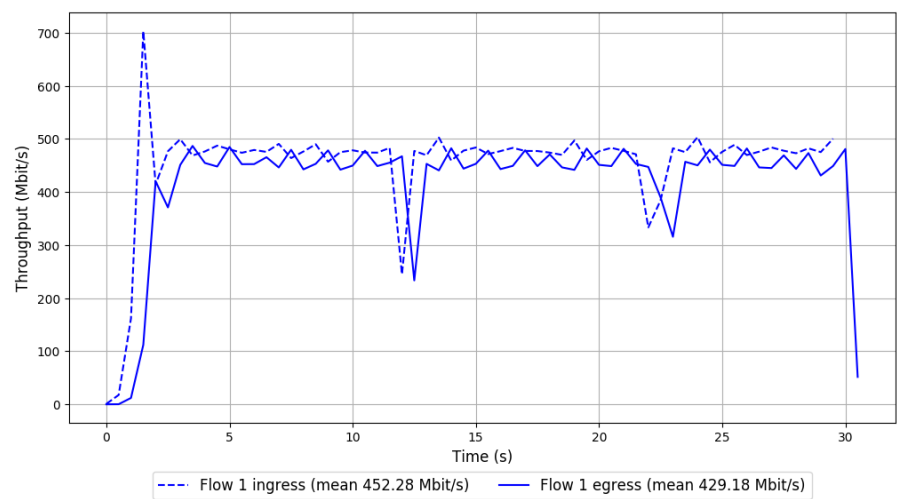
Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 450.25 Mbit/s)   Flow 1 egress (mean 426.29 Mbit/s)

Flow 1 (95th percentile 70.29 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2019-06-27 20:41:51
End at: 2019-06-27 20:42:21
Local clock offset: -0.449 ms
Remote clock offset: -39.782 ms


# Below is generated by plot.py at 2019-06-27 21:40:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 429.18 Mbit/s
95th percentile per-packet one-way delay: 63.846 ms
Loss rate: 5.10%
-- Flow 1:
Average throughput: 429.18 Mbit/s
95th percentile per-packet one-way delay: 63.846 ms
Loss rate: 5.10%
```

Run 4: Report of FillP-Sheep — Data Link

```
Run 5: Statistics of FillP-Sheep

Start at: 2019-06-27 21:10:41
End at: 2019-06-27 21:11:11
Local clock offset: -0.852 ms
Remote clock offset: -33.164 ms


# Below is generated by plot.py at 2019-06-27 21:40:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 431.62 Mbit/s
95th percentile per-packet one-way delay: 69.770 ms
Loss rate: 5.07%
-- Flow 1:
Average throughput: 431.62 Mbit/s
95th percentile per-packet one-way delay: 69.770 ms
Loss rate: 5.07%
```
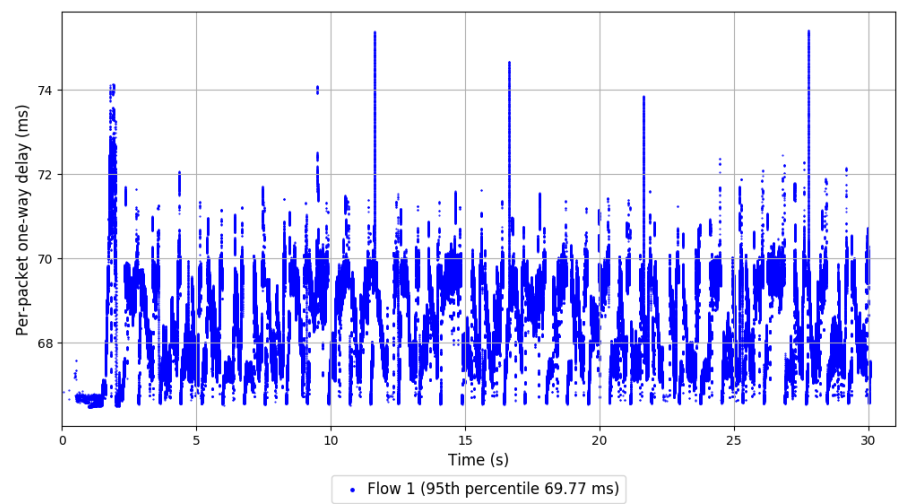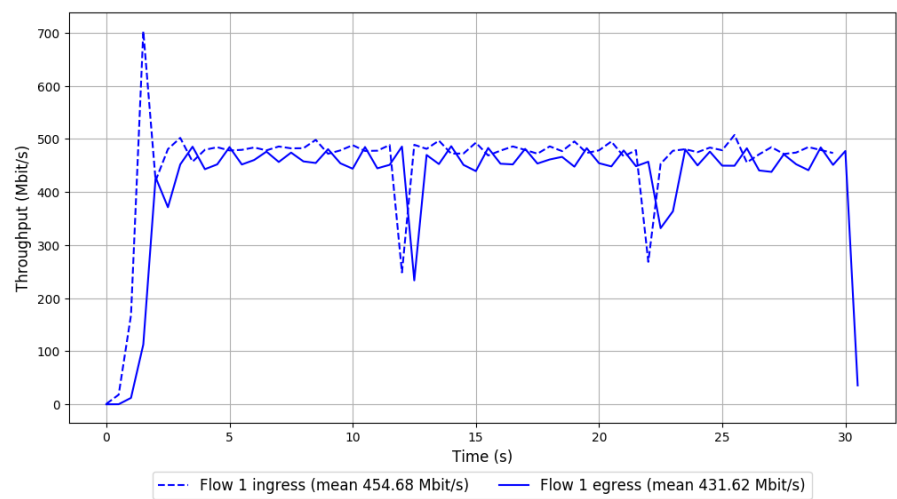
Run 5: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 454.68 Mbit/s)　　Flow 1 egress (mean 431.62 Mbit/s)

Flow 1 (95th percentile 69.77 ms)

Run 1: Statistics of Indigo

/home/ubuntu/pantheon/data/2019-06-27T19-05-AWS-India-2-to-Saudi-Arabia-5-runs/indigo_stats_

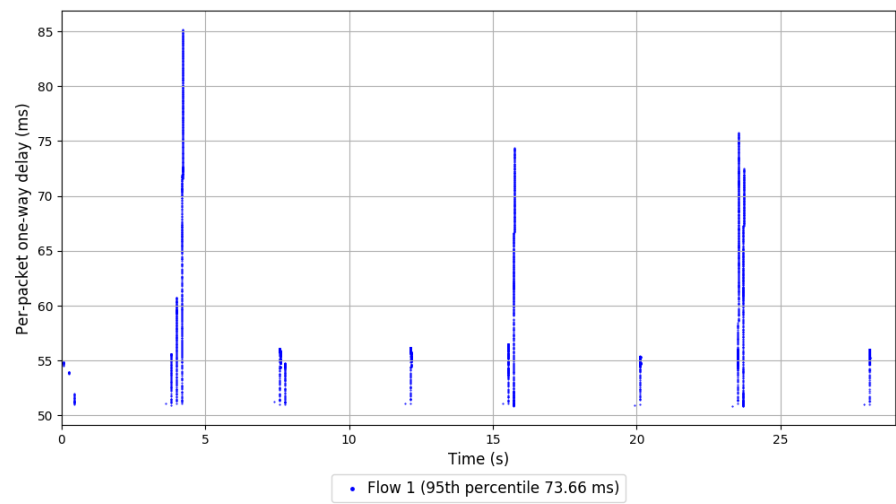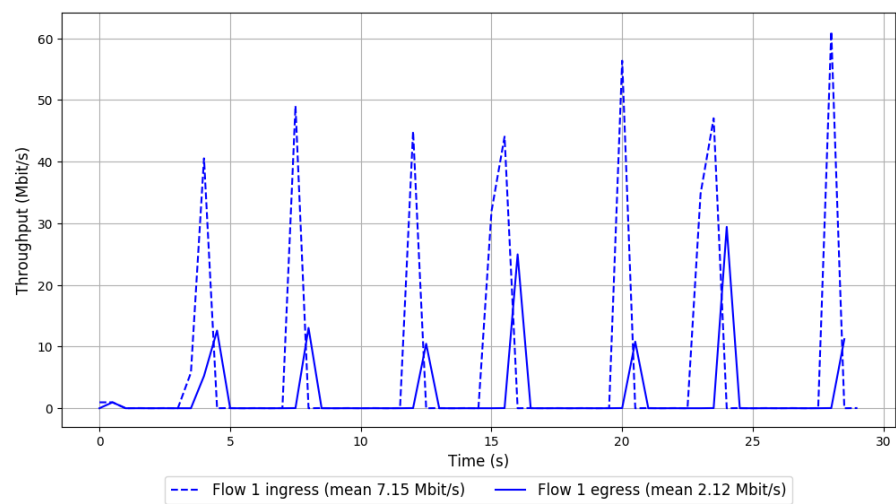Run 1: Report of Indigo — Data Link

Figure is missing
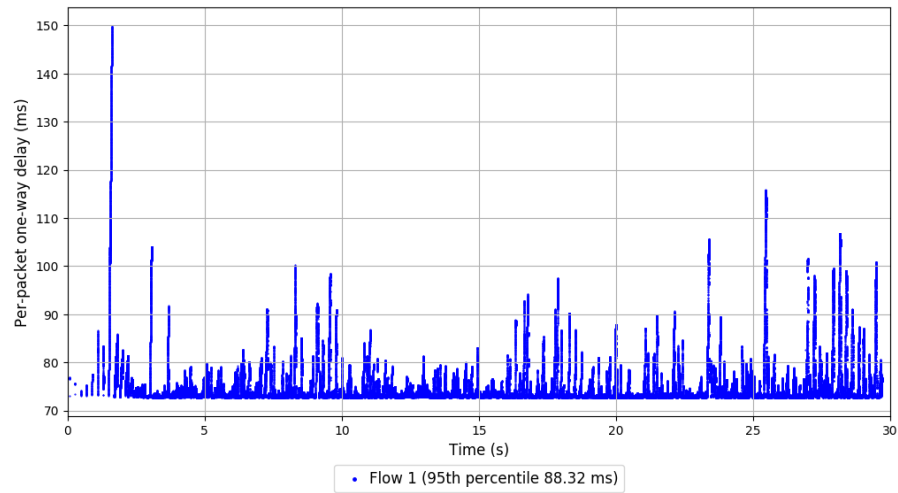
Figure is missing

```
Run 2: Statistics of Indigo

Start at: 2019-06-27 19:51:23
End at: 2019-06-27 19:51:53
Local clock offset: 0.763 ms
Remote clock offset: -39.811 ms


# Below is generated by plot.py at 2019-06-27 21:40:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 73.664 ms
Loss rate: 71.58%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 73.664 ms
Loss rate: 71.58%
```

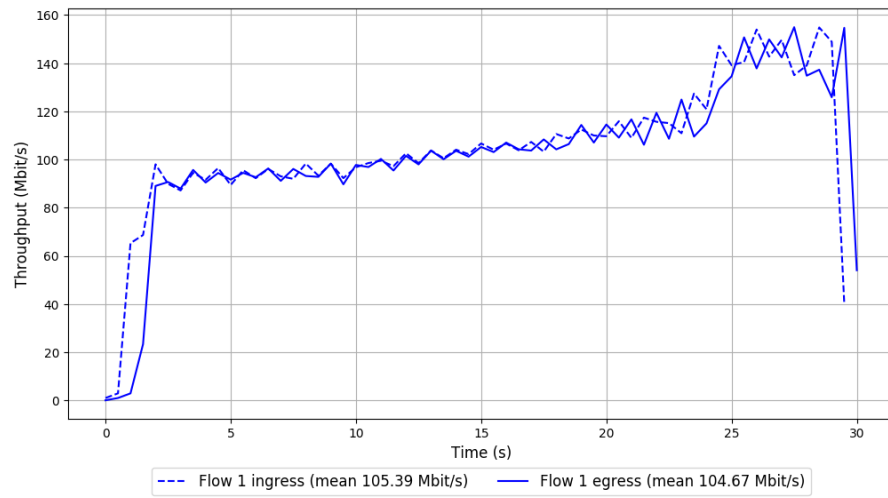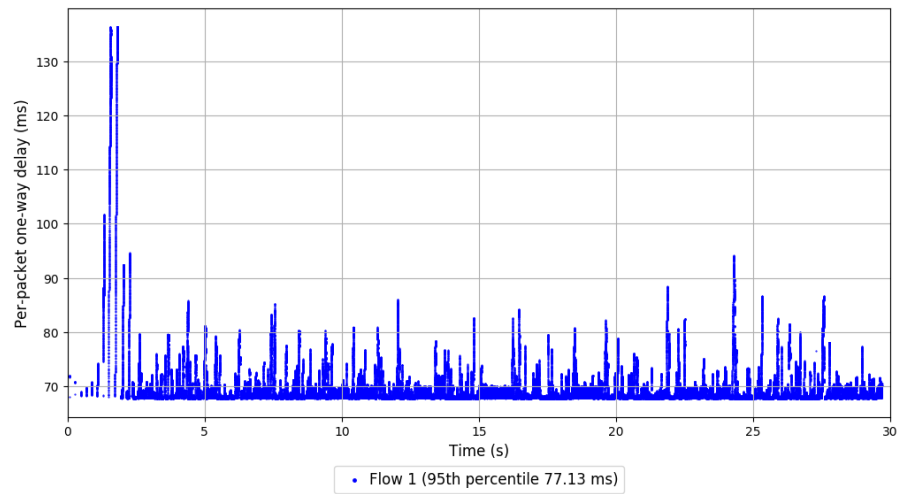Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2019-06-27 20:19:52
End at: 2019-06-27 20:20:22
Local clock offset: 0.001 ms
Remote clock offset: -27.788 ms


# Below is generated by plot.py at 2019-06-27 21:40:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 104.67 Mbit/s
95th percentile per-packet one-way delay: 88.322 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 104.67 Mbit/s
95th percentile per-packet one-way delay: 88.322 ms
Loss rate: 0.68%
```
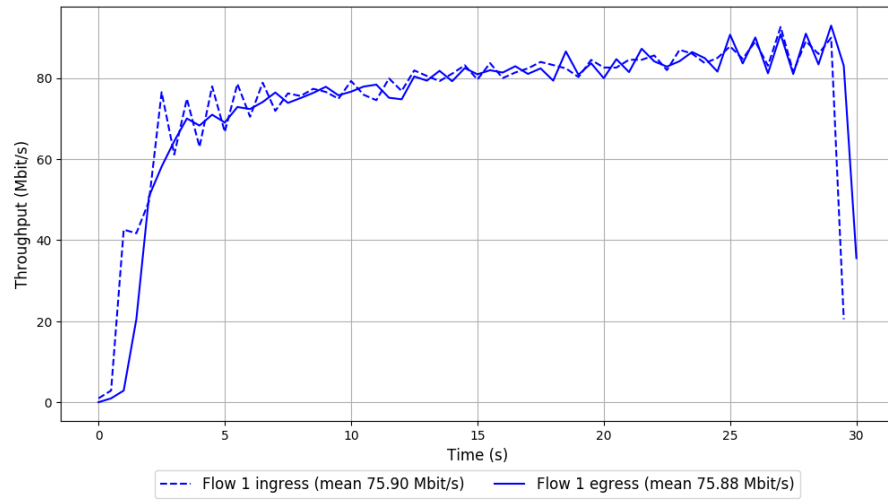
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2019-06-27 20:48:47
End at: 2019-06-27 20:49:17
Local clock offset: -0.924 ms
Remote clock offset: -32.993 ms


# Below is generated by plot.py at 2019-06-27 21:40:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.88 Mbit/s
95th percentile per-packet one-way delay: 77.133 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 75.88 Mbit/s
95th percentile per-packet one-way delay: 77.133 ms
Loss rate: 0.03%
```

Run 4: Report of Indigo — Data Link

Flow 1 ingress (mean 75.90 Mbit/s) ----- Flow 1 egress (mean 75.88 Mbit/s)
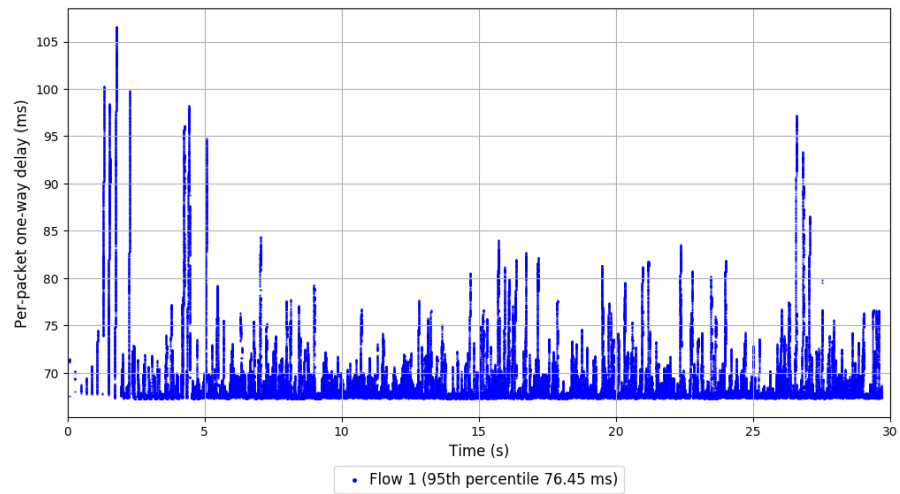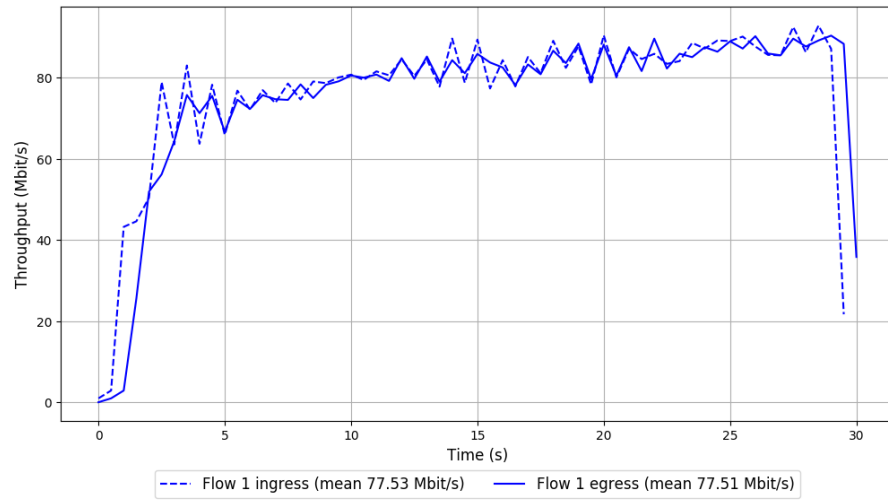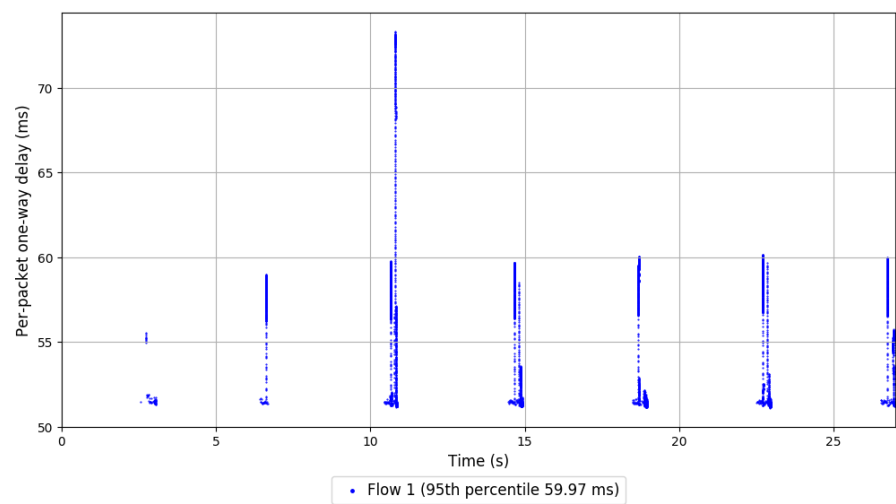

Flow 1 (95th percentile 77.13 ms)

```
Run 5: Statistics of Indigo

Start at: 2019-06-27 21:17:37
End at: 2019-06-27 21:18:07
Local clock offset: -1.476 ms
Remote clock offset: -33.256 ms


# Below is generated by plot.py at 2019-06-27 21:40:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.51 Mbit/s
95th percentile per-packet one-way delay: 76.448 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 77.51 Mbit/s
95th percentile per-packet one-way delay: 76.448 ms
Loss rate: 0.03%
```
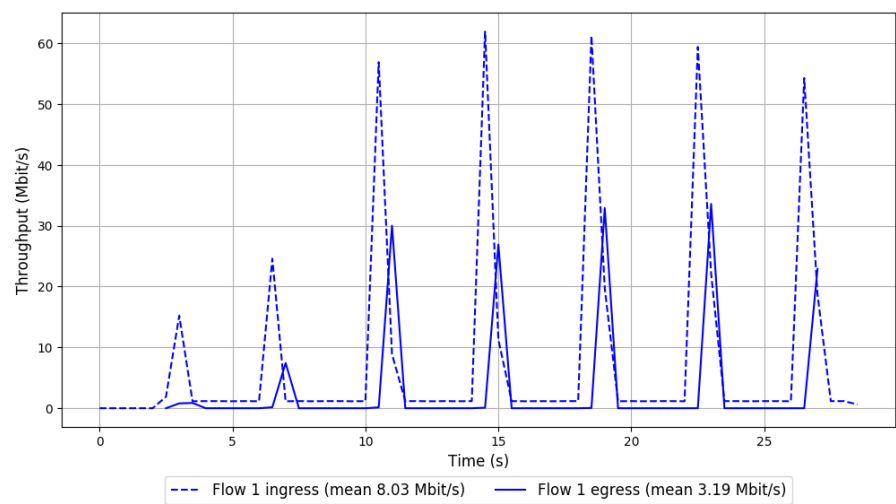
Run 5: Report of Indigo — Data Link

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-06-27 19:27:00
End at: 2019-06-27 19:27:30
Local clock offset: -0.649 ms
Remote clock offset: -40.38 ms


# Below is generated by plot.py at 2019-06-27 21:40:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 59.974 ms
Loss rate: 66.26%
-- Flow 1:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 59.974 ms
Loss rate: 66.26%
```
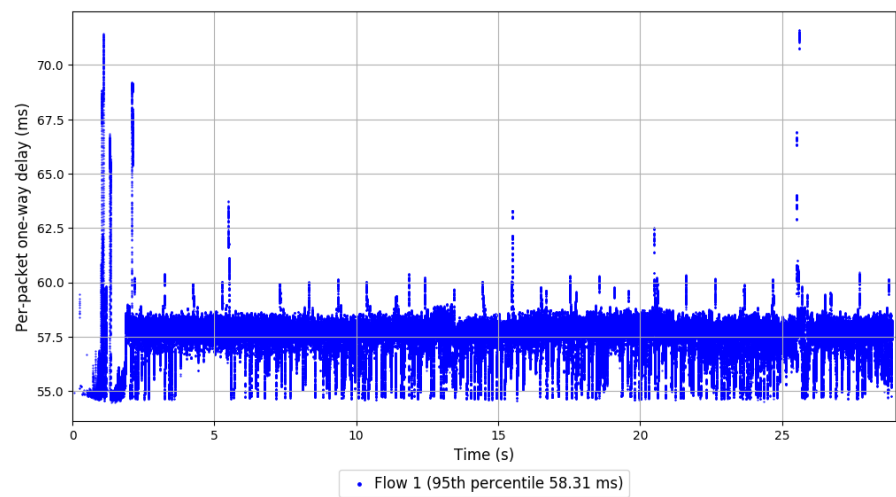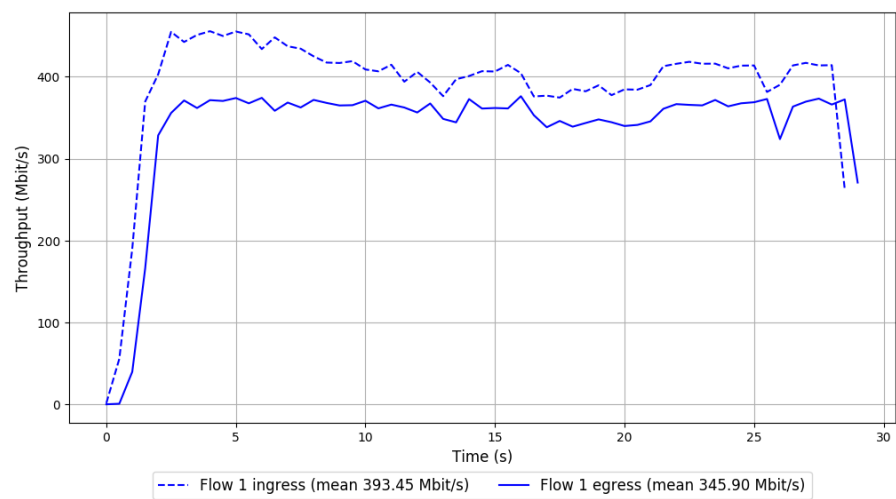
Run 1: Report of Indigo-MusesC3 — Data Link

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-06-27 19:55:00
End at: 2019-06-27 19:55:30
Local clock offset: -1.975 ms
Remote clock offset: -39.38 ms


# Below is generated by plot.py at 2019-06-27 21:41:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 345.90 Mbit/s
95th percentile per-packet one-way delay: 58.310 ms
Loss rate: 12.08%
-- Flow 1:
Average throughput: 345.90 Mbit/s
95th percentile per-packet one-way delay: 58.310 ms
Loss rate: 12.08%
```

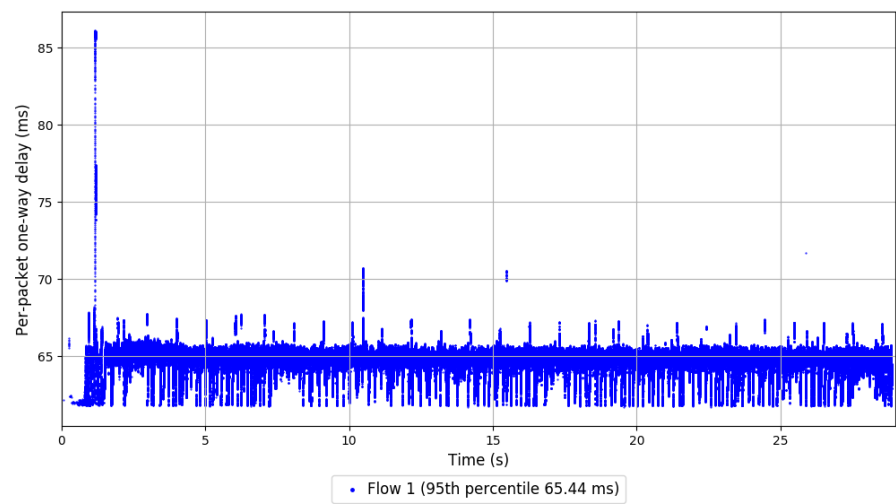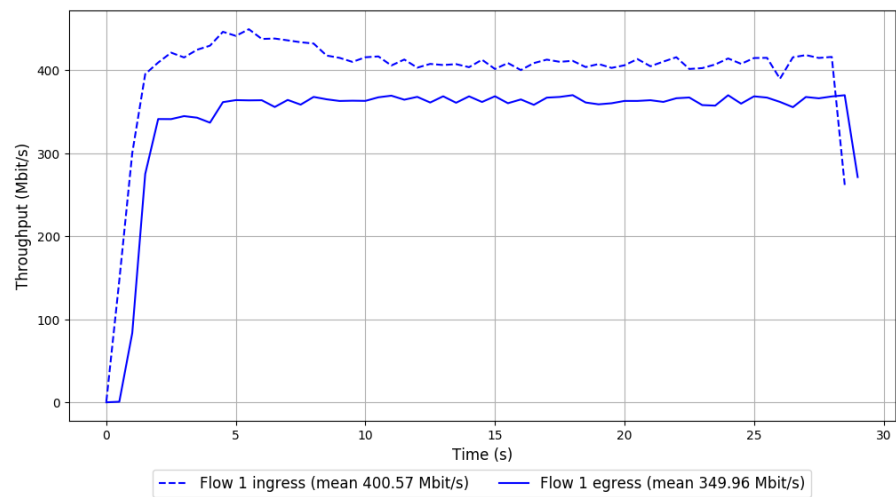Run 2: Report of Indigo-MusesC3 — Data Link

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-06-27 20:23:43
End at: 2019-06-27 20:24:13
Local clock offset: -0.048 ms
Remote clock offset: -38.615 ms


# Below is generated by plot.py at 2019-06-27 21:41:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 349.96 Mbit/s
95th percentile per-packet one-way delay: 65.443 ms
Loss rate: 12.63%
-- Flow 1:
Average throughput: 349.96 Mbit/s
95th percentile per-packet one-way delay: 65.443 ms
Loss rate: 12.63%
```

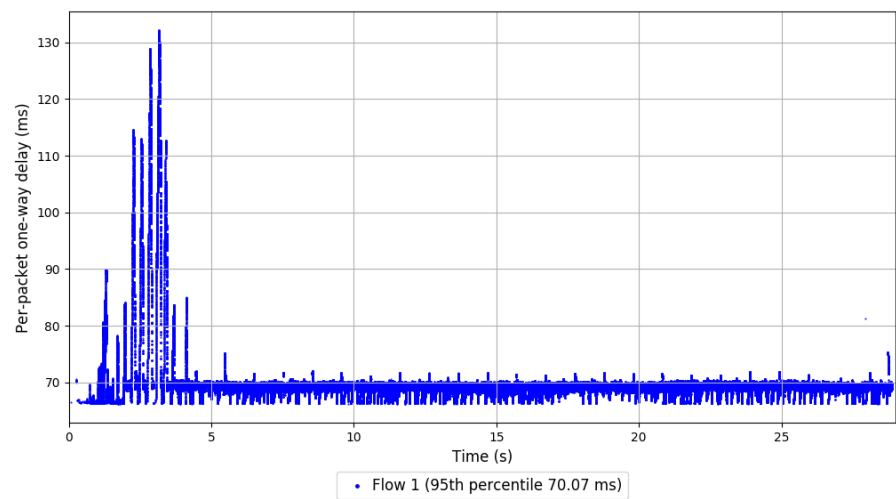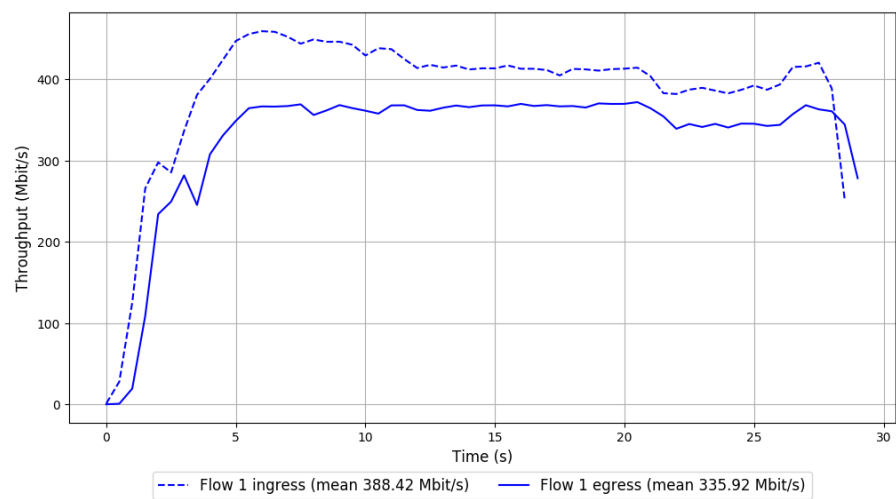Run 3: Report of Indigo-MusesC3 — Data Link

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-06-27 20:52:36
End at: 2019-06-27 20:53:06
Local clock offset: -0.603 ms
Remote clock offset: -33.717 ms


# Below is generated by plot.py at 2019-06-27 21:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.92 Mbit/s
95th percentile per-packet one-way delay: 70.068 ms
Loss rate: 13.51%
-- Flow 1:
Average throughput: 335.92 Mbit/s
95th percentile per-packet one-way delay: 70.068 ms
Loss rate: 13.51%
```

Run 4: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 388.42 Mbit/s) --- Flow 1 egress (mean 335.92 Mbit/s)

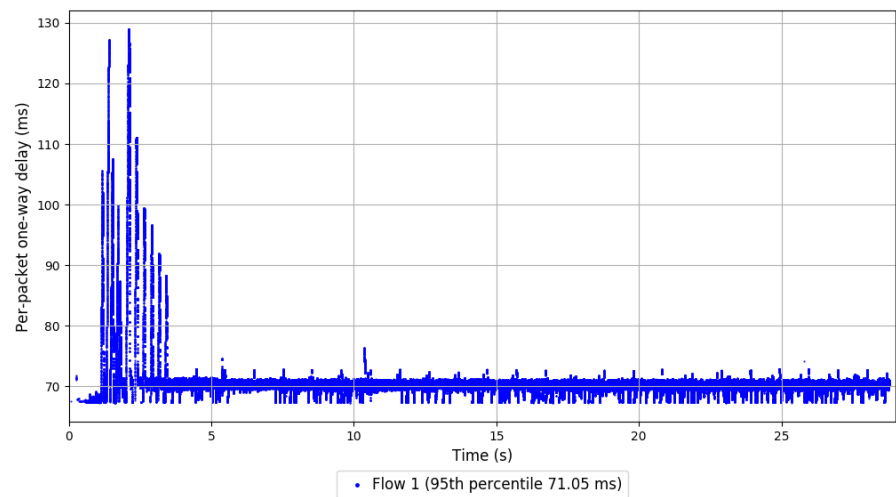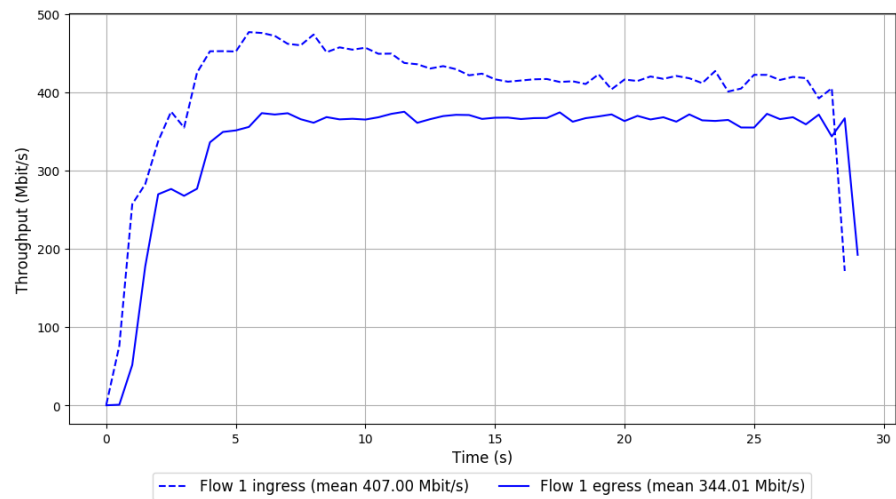• Flow 1 (95th percentile 70.07 ms)

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-06-27 21:21:26
End at: 2019-06-27 21:21:56
Local clock offset: -1.217 ms
Remote clock offset: -33.35 ms


# Below is generated by plot.py at 2019-06-27 21:43:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 344.01 Mbit/s
95th percentile per-packet one-way delay: 71.052 ms
Loss rate: 15.47%
-- Flow 1:
Average throughput: 344.01 Mbit/s
95th percentile per-packet one-way delay: 71.052 ms
Loss rate: 15.47%
```

Run 5: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 407.00 Mbit/s) --- Flow 1 egress (mean 344.01 Mbit/s)

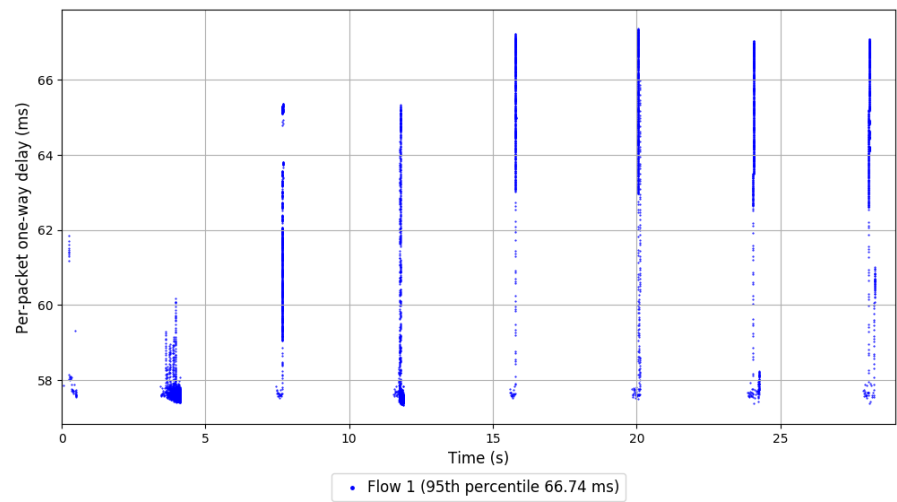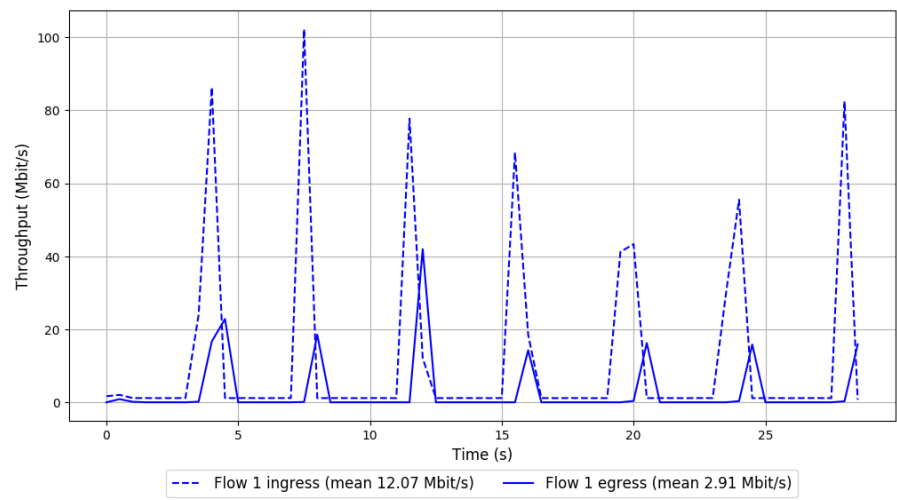Flow 1 (95th percentile 71.05 ms)

```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-06-27 19:18:47
End at: 2019-06-27 19:19:17
Local clock offset: -1.816 ms
Remote clock offset: -34.645 ms


# Below is generated by plot.py at 2019-06-27 21:43:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 66.744 ms
Loss rate: 76.36%
-- Flow 1:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 66.744 ms
Loss rate: 76.36%
```
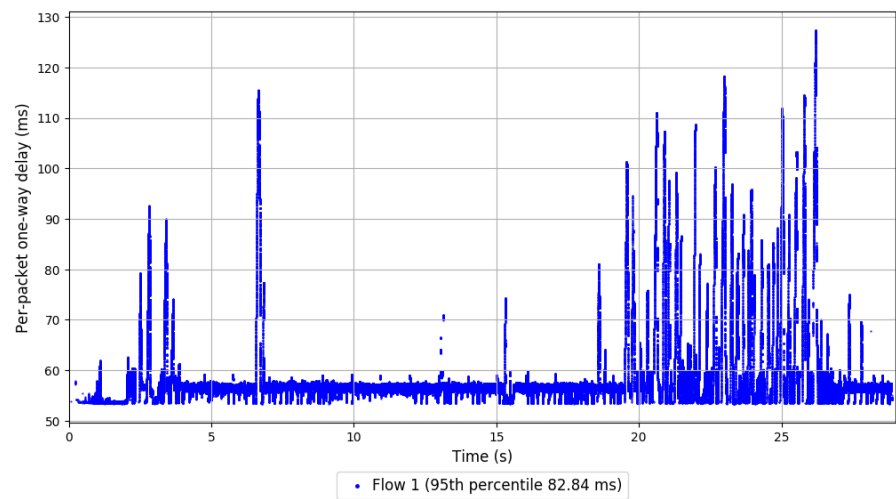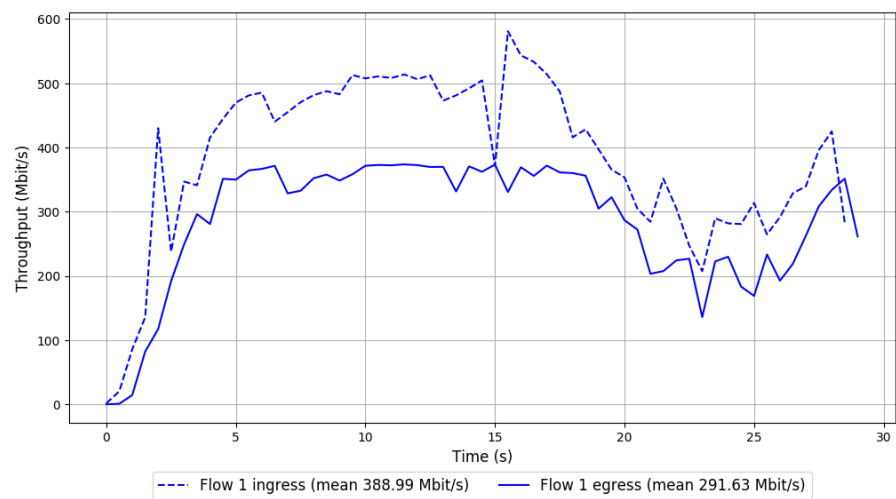
Run 1: Report of Indigo-MusesC5 — Data Link

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-06-27 19:47:13
End at: 2019-06-27 19:47:43
Local clock offset: -2.436 ms
Remote clock offset: -40.019 ms


# Below is generated by plot.py at 2019-06-27 21:43:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 291.63 Mbit/s
95th percentile per-packet one-way delay: 82.844 ms
Loss rate: 25.03%
-- Flow 1:
Average throughput: 291.63 Mbit/s
95th percentile per-packet one-way delay: 82.844 ms
Loss rate: 25.03%
```

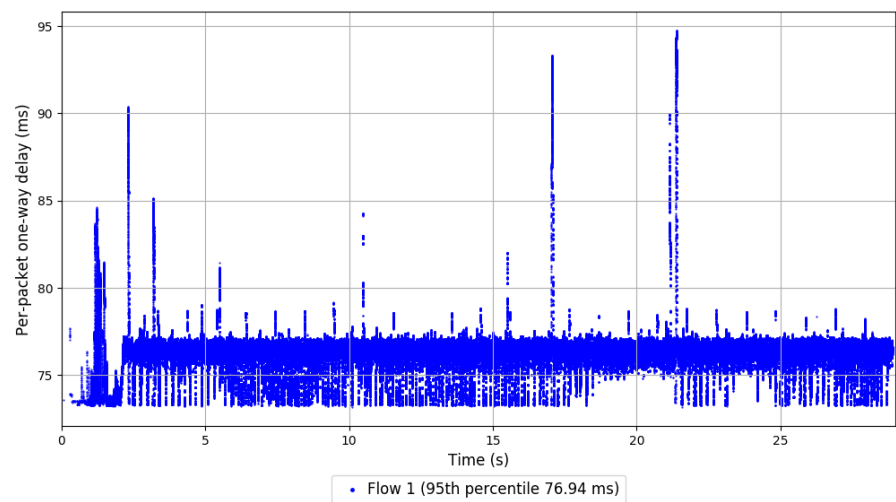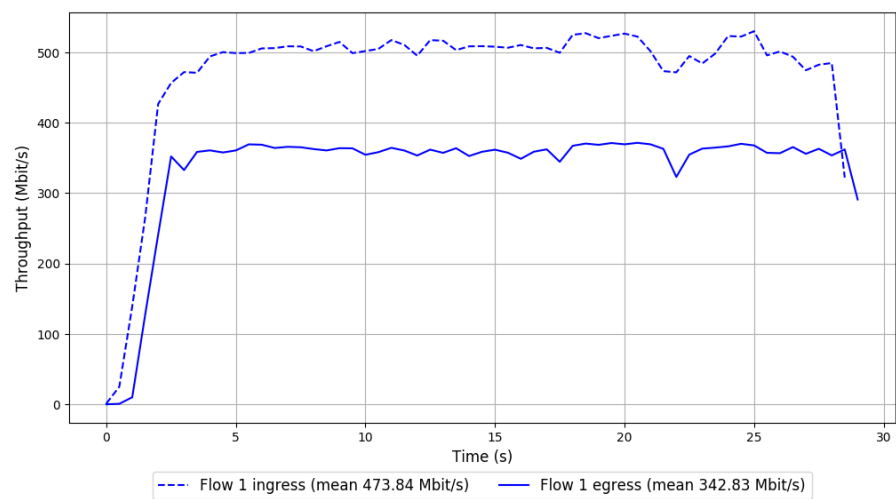Run 2: Report of Indigo-MusesC5 — Data Link

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-06-27 20:15:45
End at: 2019-06-27 20:16:15
Local clock offset: -0.711 ms
Remote clock offset: -28.188 ms


# Below is generated by plot.py at 2019-06-27 21:44:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.83 Mbit/s
95th percentile per-packet one-way delay: 76.936 ms
Loss rate: 27.64%
-- Flow 1:
Average throughput: 342.83 Mbit/s
95th percentile per-packet one-way delay: 76.936 ms
Loss rate: 27.64%
```

Run 3: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 473.84 Mbit/s)   Flow 1 egress (mean 342.83 Mbit/s)
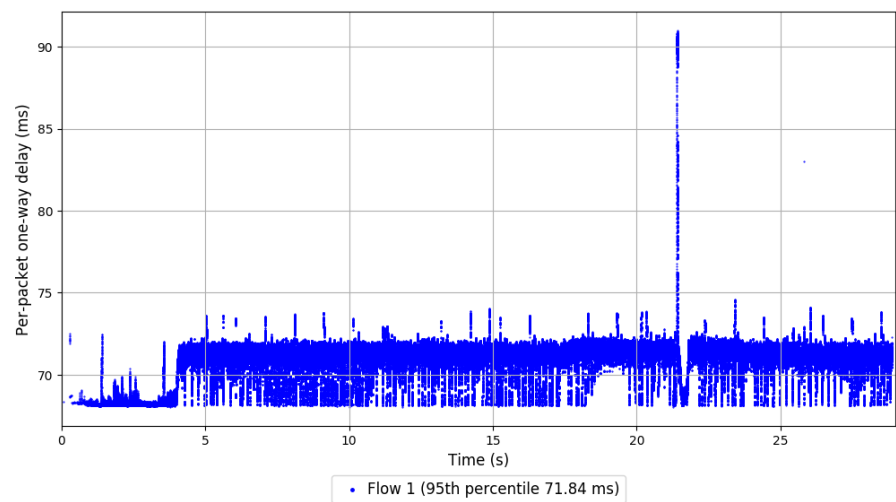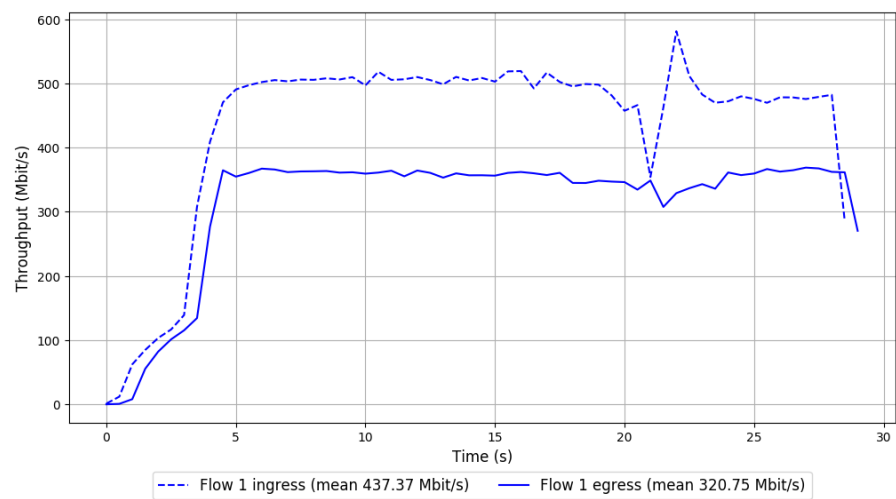

Flow 1 (95th percentile 76.94 ms)

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-06-27 20:44:41
End at: 2019-06-27 20:45:11
Local clock offset: -1.118 ms
Remote clock offset: -32.744 ms


# Below is generated by plot.py at 2019-06-27 21:44:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 320.75 Mbit/s
95th percentile per-packet one-way delay: 71.836 ms
Loss rate: 26.65%
-- Flow 1:
Average throughput: 320.75 Mbit/s
95th percentile per-packet one-way delay: 71.836 ms
Loss rate: 26.65%
```

Run 4: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 437.37 Mbit/s)   Flow 1 egress (mean 320.75 Mbit/s)
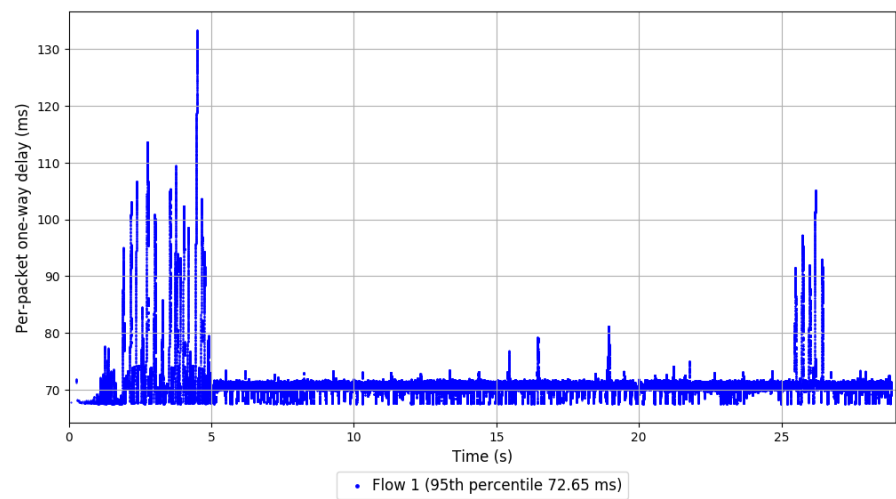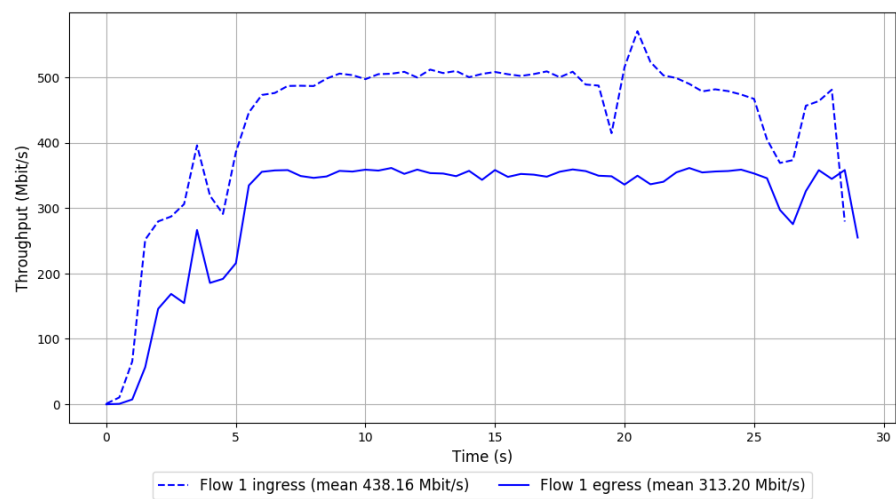

• Flow 1 (95th percentile 71.84 ms)

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-06-27 21:13:32
End at: 2019-06-27 21:14:02
Local clock offset: -1.097 ms
Remote clock offset: -33.05 ms


# Below is generated by plot.py at 2019-06-27 21:44:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 313.20 Mbit/s
95th percentile per-packet one-way delay: 72.653 ms
Loss rate: 28.51%
-- Flow 1:
Average throughput: 313.20 Mbit/s
95th percentile per-packet one-way delay: 72.653 ms
Loss rate: 28.51%
```

Run 5: Report of Indigo-MusesC5 — Data Link

```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-06-27 19:08:46
End at: 2019-06-27 19:09:16
Local clock offset: -1.119 ms
Remote clock offset: -39.078 ms


# Below is generated by plot.py at 2019-06-27 21:44:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 302.26 Mbit/s
95th percentile per-packet one-way delay: 106.322 ms
Loss rate: 12.72%
-- Flow 1:
Average throughput: 302.26 Mbit/s
95th percentile per-packet one-way delay: 106.322 ms
Loss rate: 12.72%
```
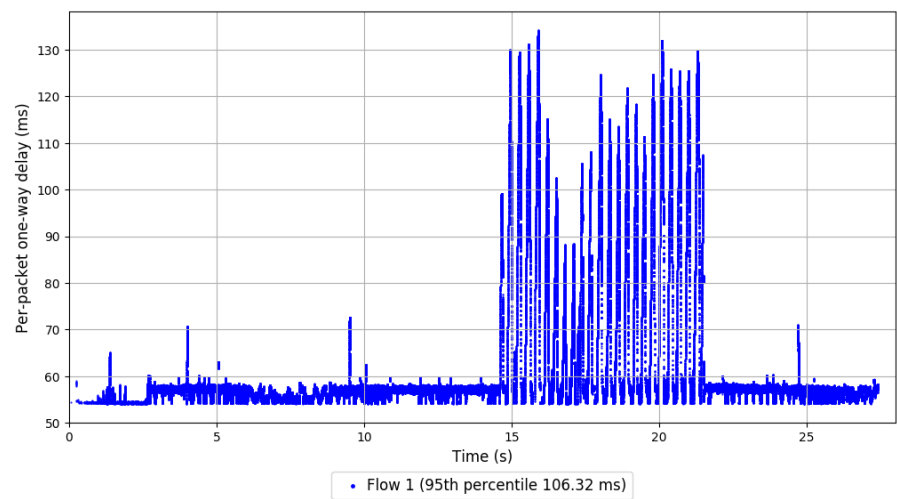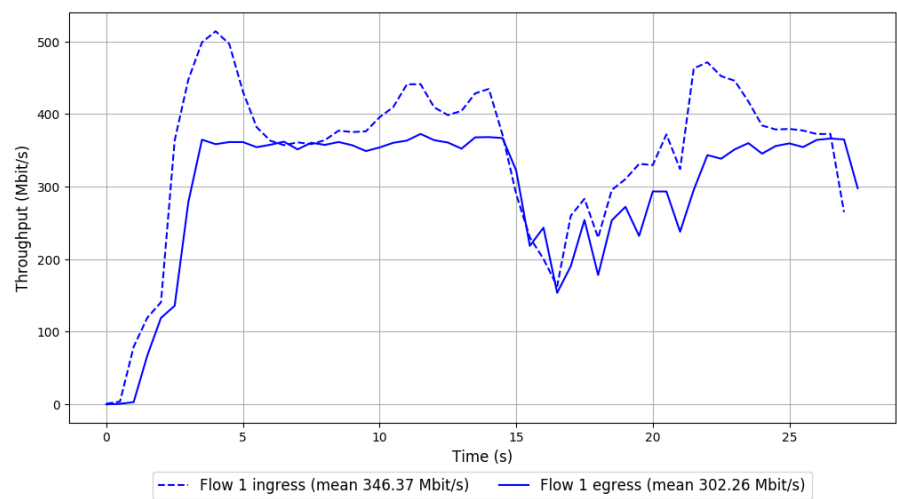
Run 1: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 346.37 Mbit/s)   Flow 1 egress (mean 302.26 Mbit/s)

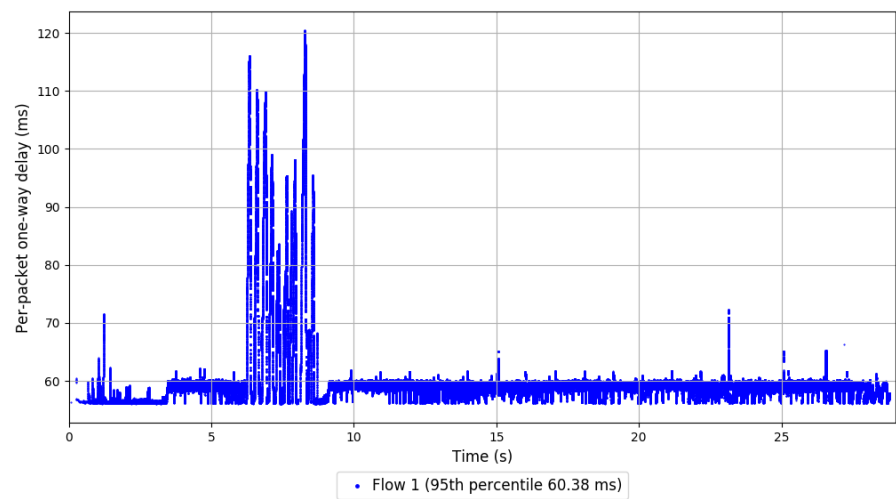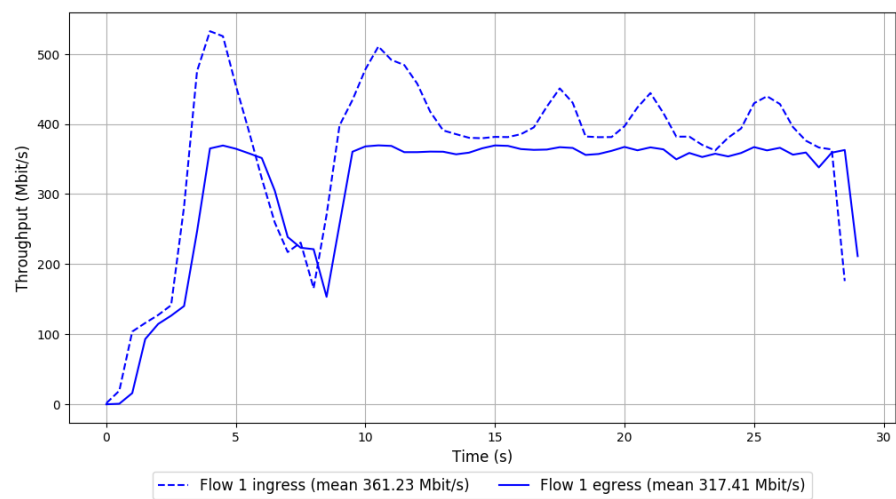Flow 1 (95th percentile 106.32 ms)

```
Run 2: Statistics of Indigo-MusesD

Start at: 2019-06-27 19:37:20
End at: 2019-06-27 19:37:50
Local clock offset: -1.313 ms
Remote clock offset: -37.591 ms


# Below is generated by plot.py at 2019-06-27 21:45:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.41 Mbit/s
95th percentile per-packet one-way delay: 60.380 ms
Loss rate: 12.13%
-- Flow 1:
Average throughput: 317.41 Mbit/s
95th percentile per-packet one-way delay: 60.380 ms
Loss rate: 12.13%
```

Run 2: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 361.23 Mbit/s) —— Flow 1 egress (mean 317.41 Mbit/s)
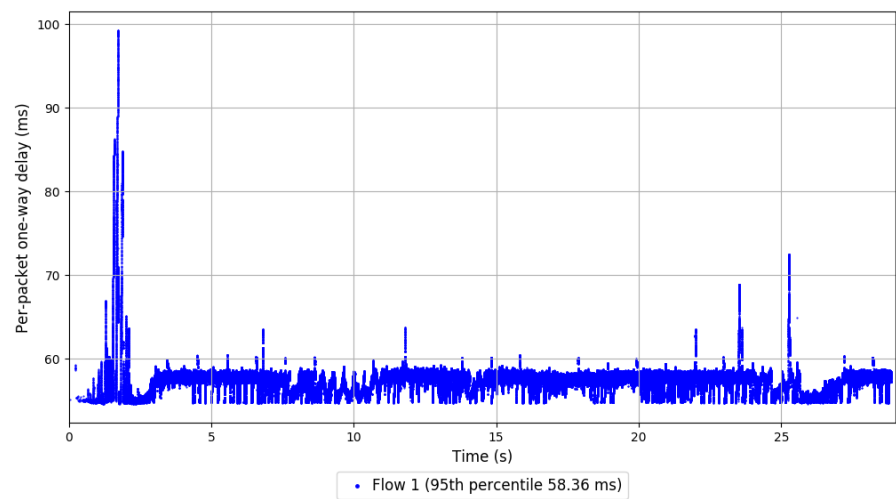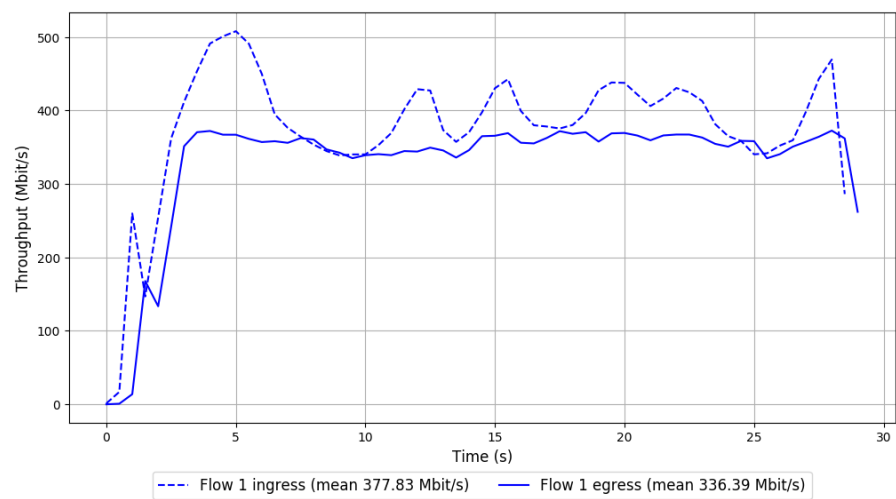

• Flow 1 (95th percentile 60.38 ms)

```
Run 3: Statistics of Indigo-MusesD

Start at: 2019-06-27 20:05:23
End at: 2019-06-27 20:05:53
Local clock offset: -0.215 ms
Remote clock offset: -36.959 ms


# Below is generated by plot.py at 2019-06-27 21:47:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.39 Mbit/s
95th percentile per-packet one-way delay: 58.356 ms
Loss rate: 10.96%
-- Flow 1:
Average throughput: 336.39 Mbit/s
95th percentile per-packet one-way delay: 58.356 ms
Loss rate: 10.96%
```

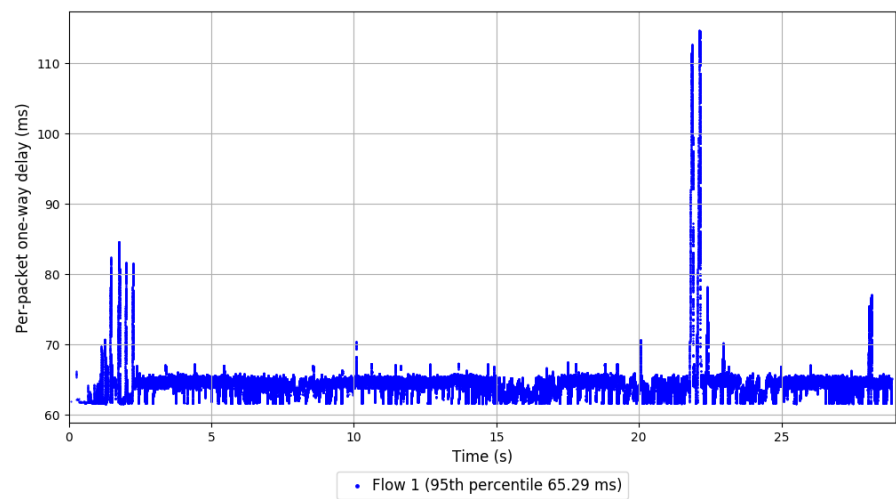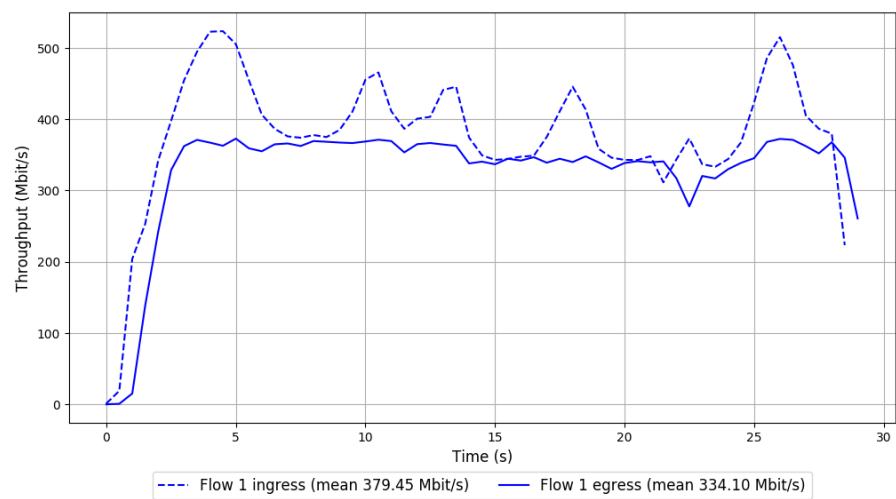Run 3: Report of Indigo-MusesD — Data Link

```
Run 4: Statistics of Indigo-MusesD

Start at: 2019-06-27 20:34:15
End at: 2019-06-27 20:34:45
Local clock offset: -0.413 ms
Remote clock offset: -38.716 ms


# Below is generated by plot.py at 2019-06-27 21:47:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 334.10 Mbit/s
95th percentile per-packet one-way delay: 65.293 ms
Loss rate: 11.94%
-- Flow 1:
Average throughput: 334.10 Mbit/s
95th percentile per-packet one-way delay: 65.293 ms
Loss rate: 11.94%
```
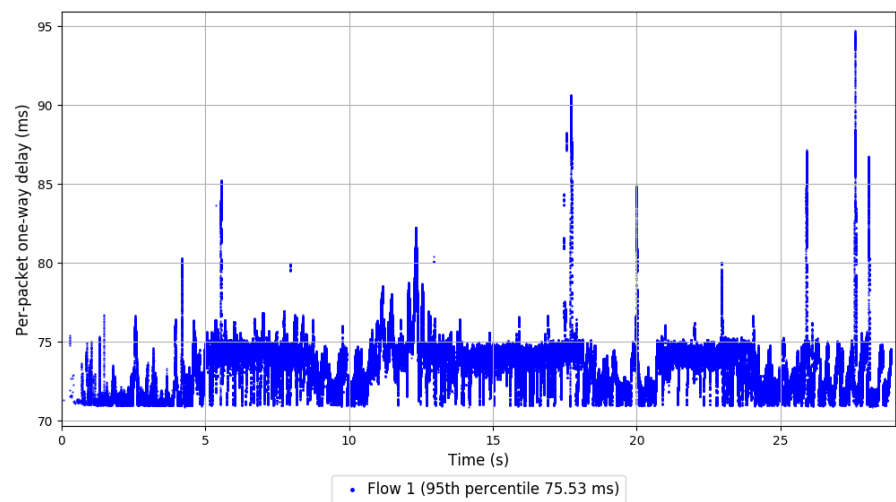
Run 4: Report of Indigo-MusesD — Data Link

```
Run 5: Statistics of Indigo-MusesD

Start at: 2019-06-27 21:03:05
End at: 2019-06-27 21:03:35
Local clock offset: -1.795 ms
Remote clock offset: -29.764 ms


# Below is generated by plot.py at 2019-06-27 21:47:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 303.06 Mbit/s
95th percentile per-packet one-way delay: 75.534 ms
Loss rate: 11.00%
-- Flow 1:
Average throughput: 303.06 Mbit/s
95th percentile per-packet one-way delay: 75.534 ms
Loss rate: 11.00%
```
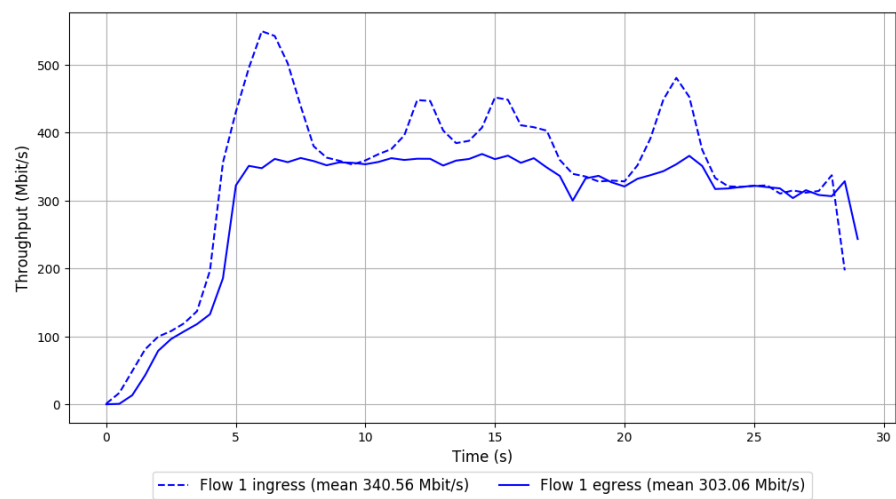
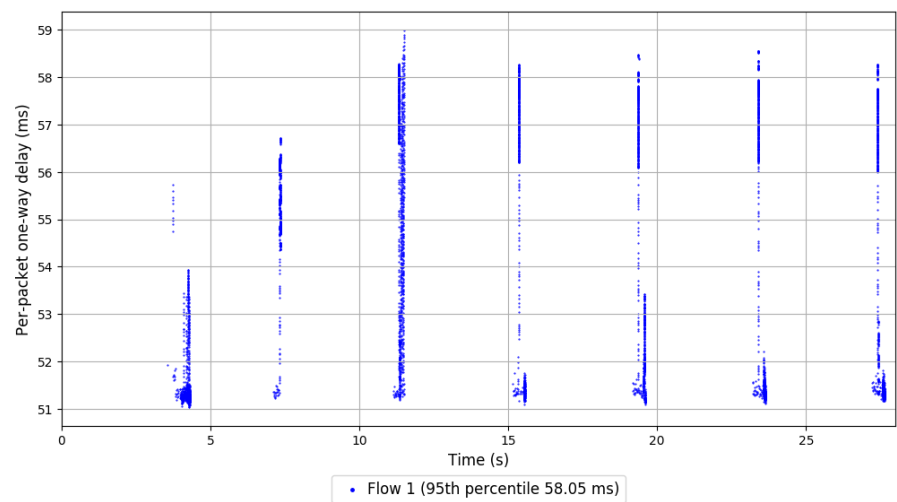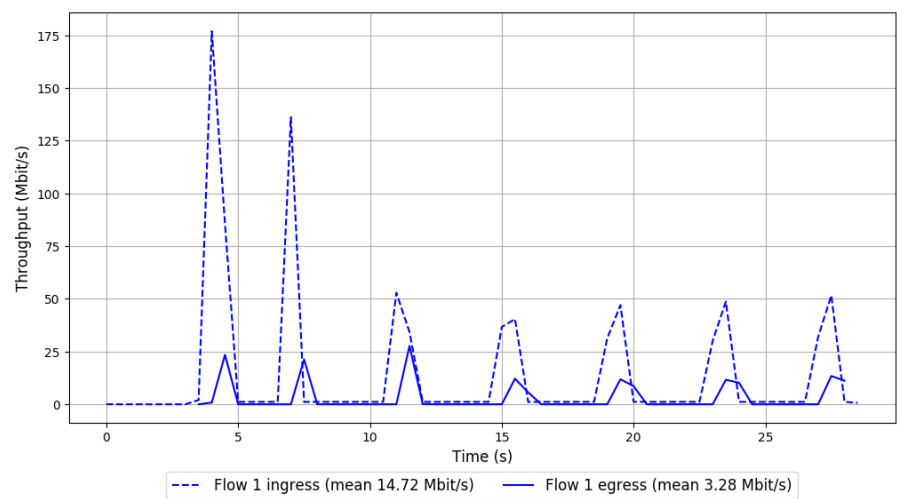Run 5: Report of Indigo-MusesD — Data Link

```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-06-27 19:28:12
End at: 2019-06-27 19:28:42
Local clock offset: -0.319 ms
Remote clock offset: -38.656 ms


# Below is generated by plot.py at 2019-06-27 21:47:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 58.047 ms
Loss rate: 81.36%
-- Flow 1:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 58.047 ms
Loss rate: 81.36%
```
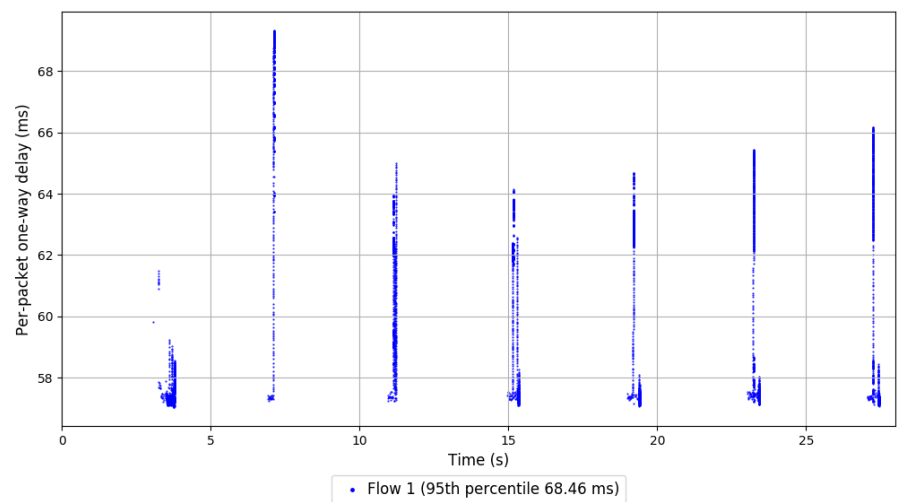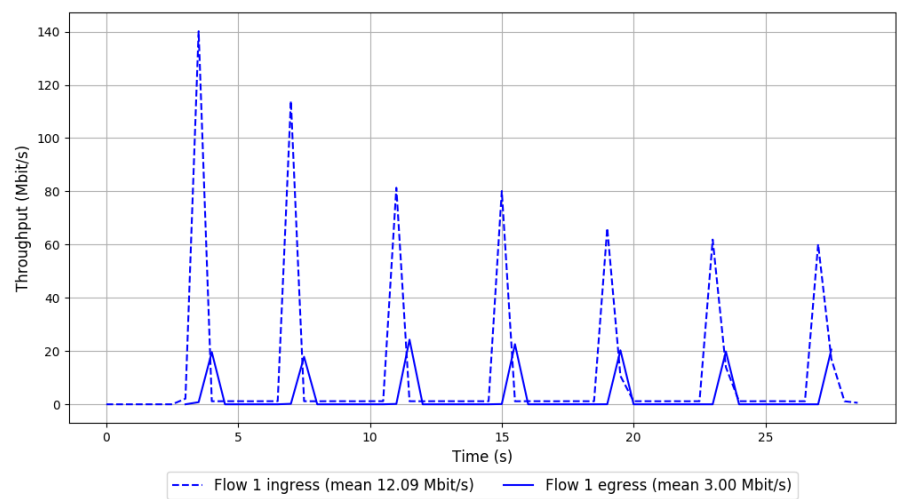
Run 1: Report of Indigo-MusesT — Data Link

```
Run 2: Statistics of Indigo-MusesT

Start at: 2019-06-27 19:56:32
End at: 2019-06-27 19:57:02
Local clock offset: -1.843 ms
Remote clock offset: -35.468 ms

# Below is generated by plot.py at 2019-06-27 21:47:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 68.459 ms
Loss rate: 78.94%
-- Flow 1:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 68.459 ms
Loss rate: 78.94%
```
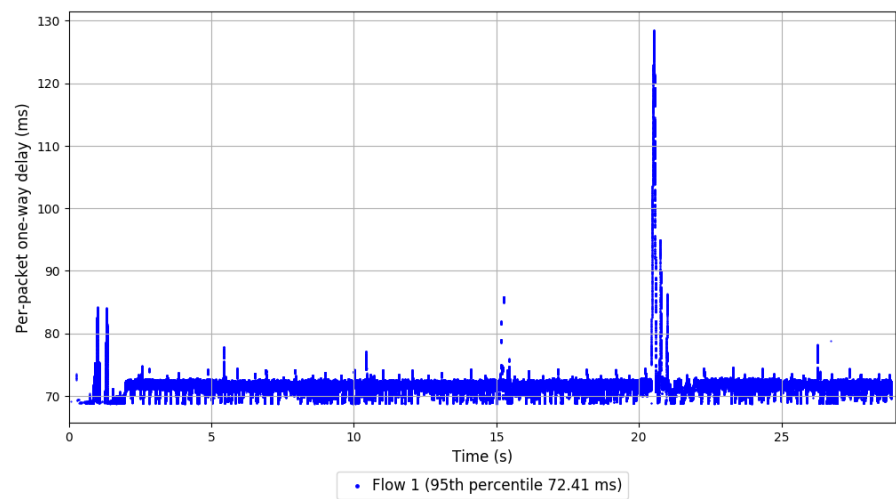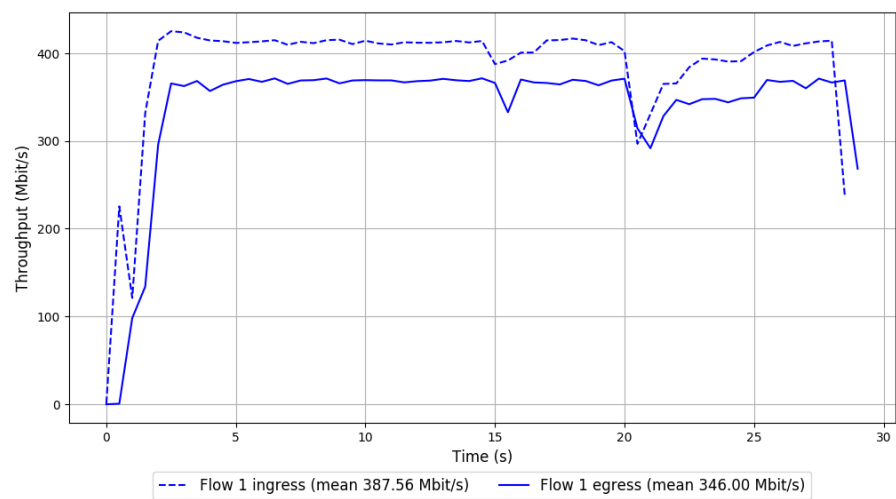
Run 2: Report of Indigo-MusesT — Data Link

```
Run 3: Statistics of Indigo-MusesT

Start at: 2019-06-27 20:25:09
End at: 2019-06-27 20:25:39
Local clock offset: -0.121 ms
Remote clock offset: -31.859 ms


# Below is generated by plot.py at 2019-06-27 21:48:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 346.00 Mbit/s
95th percentile per-packet one-way delay: 72.408 ms
Loss rate: 10.71%
-- Flow 1:
Average throughput: 346.00 Mbit/s
95th percentile per-packet one-way delay: 72.408 ms
Loss rate: 10.71%
```

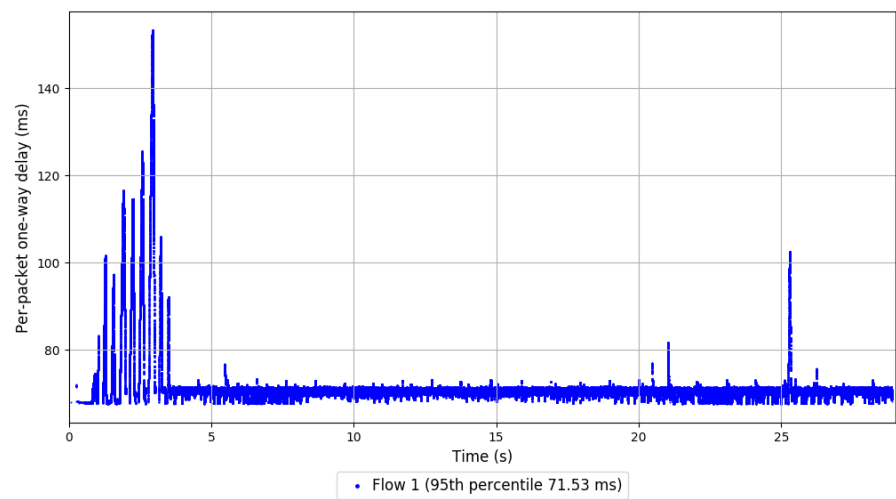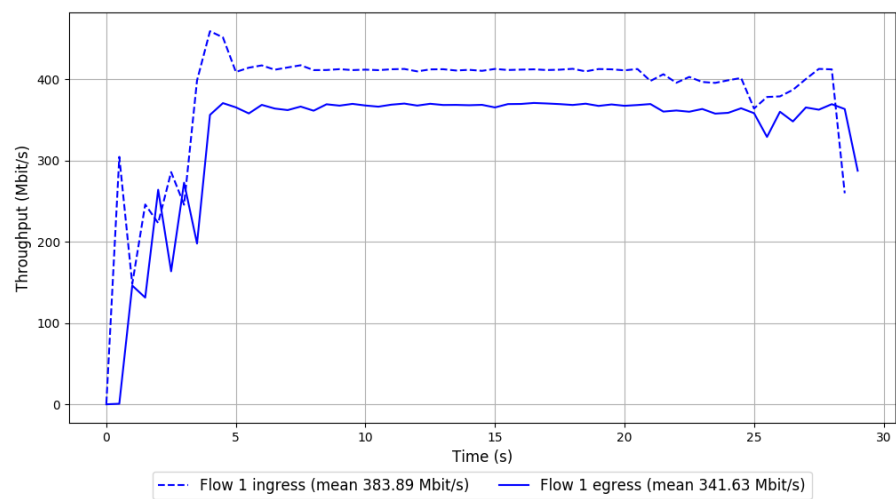Run 3: Report of Indigo-MusesT — Data Link

```
Run 4: Statistics of Indigo-MusesT

Start at: 2019-06-27 20:54:02
End at: 2019-06-27 20:54:32
Local clock offset: -0.7 ms
Remote clock offset: -32.595 ms


# Below is generated by plot.py at 2019-06-27 21:48:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.63 Mbit/s
95th percentile per-packet one-way delay: 71.530 ms
Loss rate: 11.00%
-- Flow 1:
Average throughput: 341.63 Mbit/s
95th percentile per-packet one-way delay: 71.530 ms
Loss rate: 11.00%
```
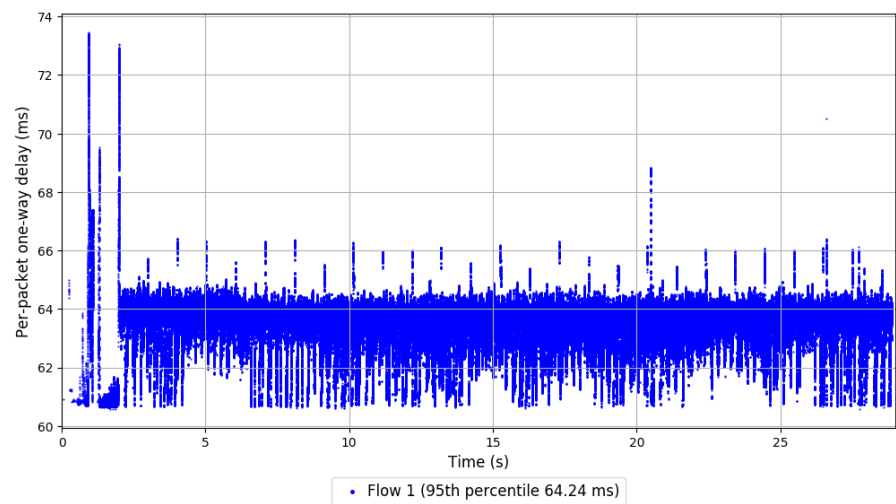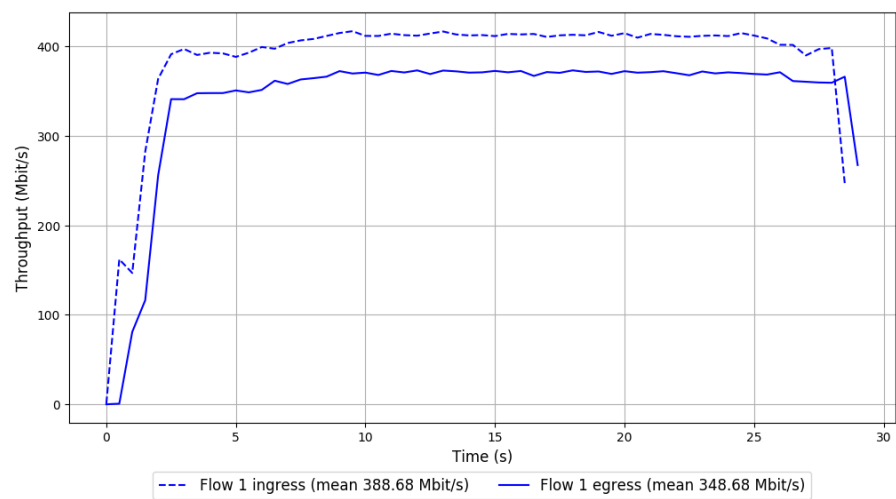
Run 4: Report of Indigo-MusesT — Data Link

```
Run 5: Statistics of Indigo-MusesT

Start at: 2019-06-27 21:22:53
End at: 2019-06-27 21:23:23
Local clock offset: -0.891 ms
Remote clock offset: -39.939 ms


# Below is generated by plot.py at 2019-06-27 21:48:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 348.68 Mbit/s
95th percentile per-packet one-way delay: 64.239 ms
Loss rate: 10.28%
-- Flow 1:
Average throughput: 348.68 Mbit/s
95th percentile per-packet one-way delay: 64.239 ms
Loss rate: 10.28%
```

Run 5: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 388.68 Mbit/s)   Flow 1 egress (mean 348.68 Mbit/s)
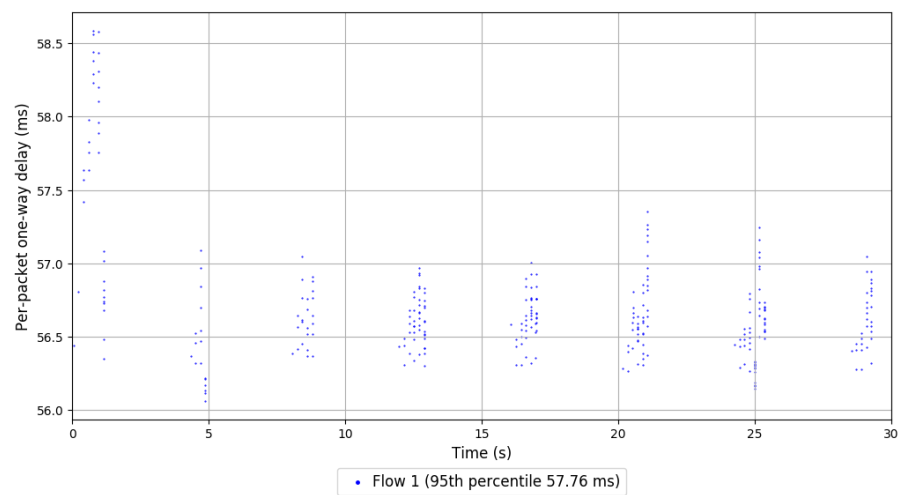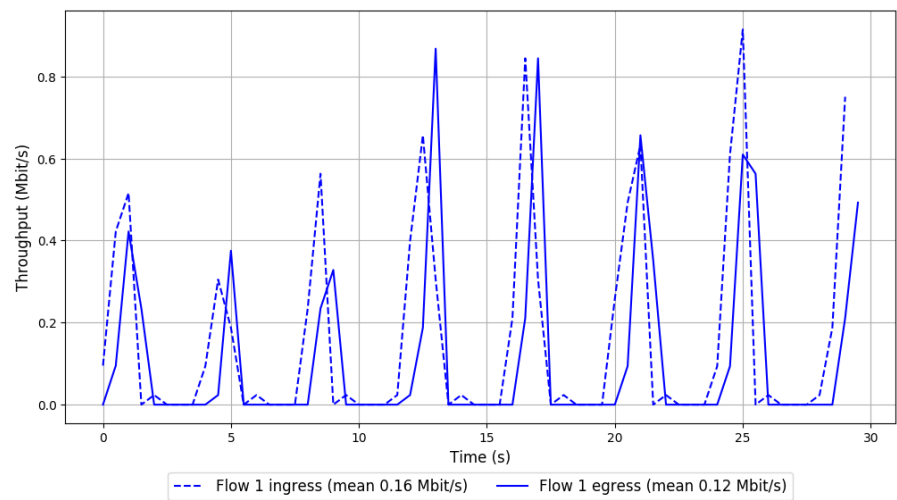

Flow 1 (95th percentile 64.24 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2019-06-27 19:19:56
End at: 2019-06-27 19:20:26
Local clock offset: -2.254 ms
Remote clock offset: -35.578 ms


# Below is generated by plot.py at 2019-06-27 21:48:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 57.757 ms
Loss rate: 25.50%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 57.757 ms
Loss rate: 25.50%
```

Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 0.16 Mbit/s)   Flow 1 egress (mean 0.12 Mbit/s)

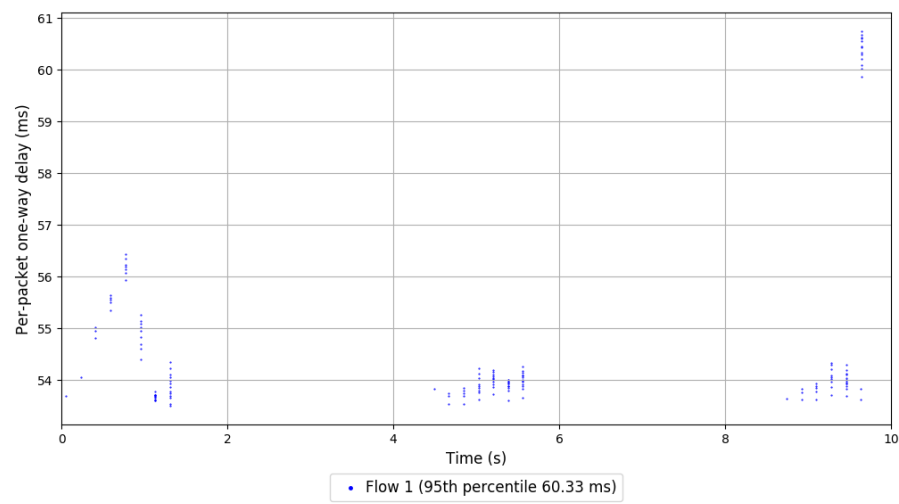Flow 1 (95th percentile 57.76 ms)
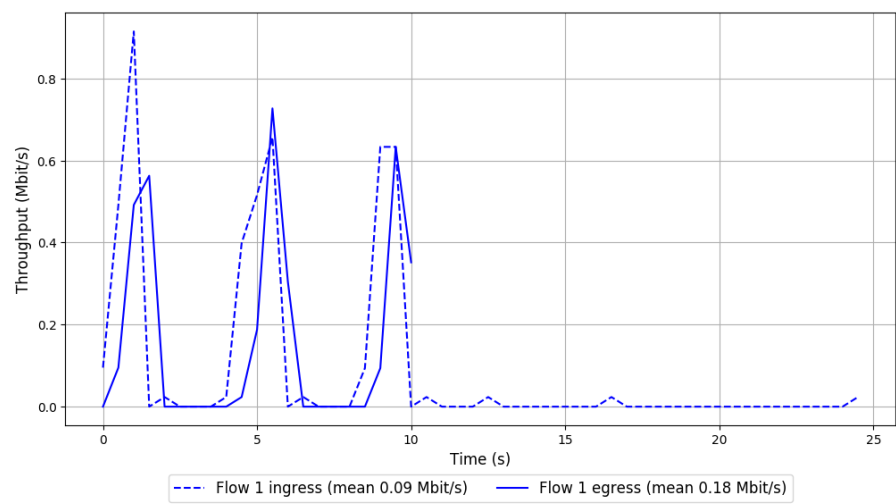
Run 2: Statistics of LEDBAT

Start at: 2019-06-27 19:48:41
End at: 2019-06-27 19:49:11
Local clock offset: -2.319 ms
Remote clock offset: -39.441 ms

Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 0.09 Mbit/s)   Flow 1 egress (mean 0.18 Mbit/s)
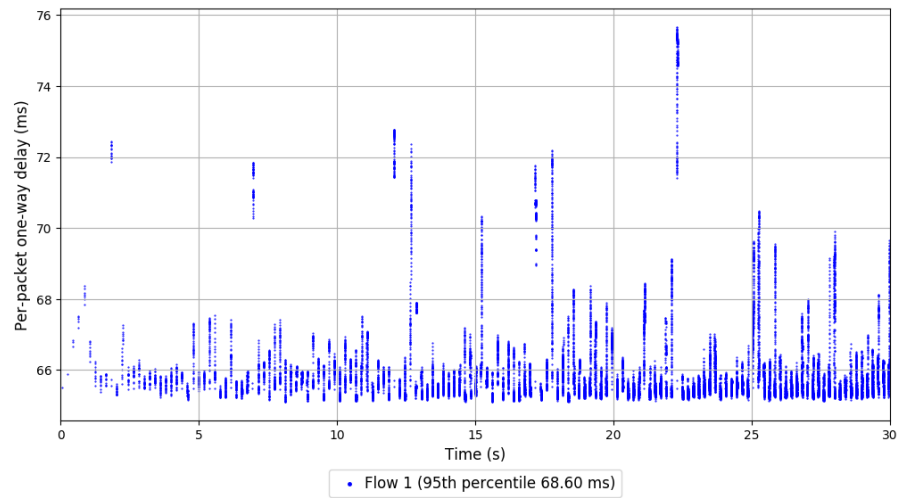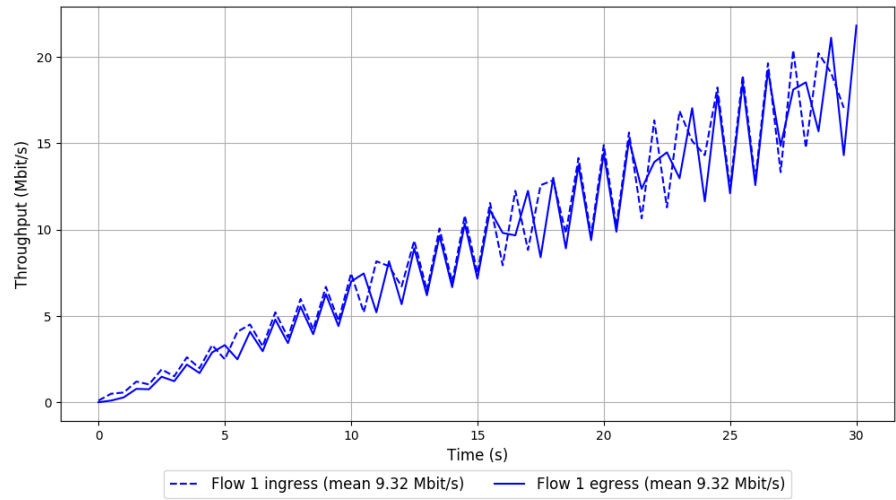

Flow 1 (95th percentile 60.33 ms)

```
Run 3: Statistics of LEDBAT

Start at: 2019-06-27 20:17:13
End at: 2019-06-27 20:17:43
Local clock offset: -0.748 ms
Remote clock offset: -36.165 ms

# Below is generated by plot.py at 2019-06-27 21:48:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 68.596 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 68.596 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 9.32 Mbit/s) ——— Flow 1 egress (mean 9.32 Mbit/s)

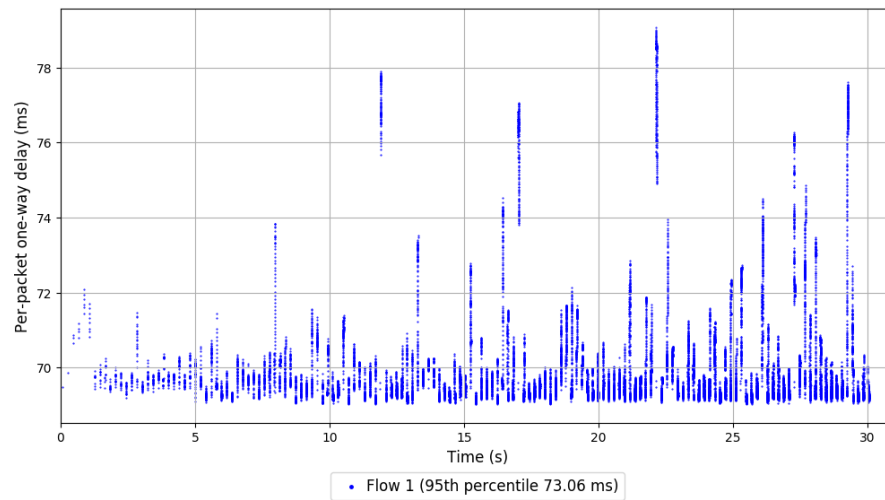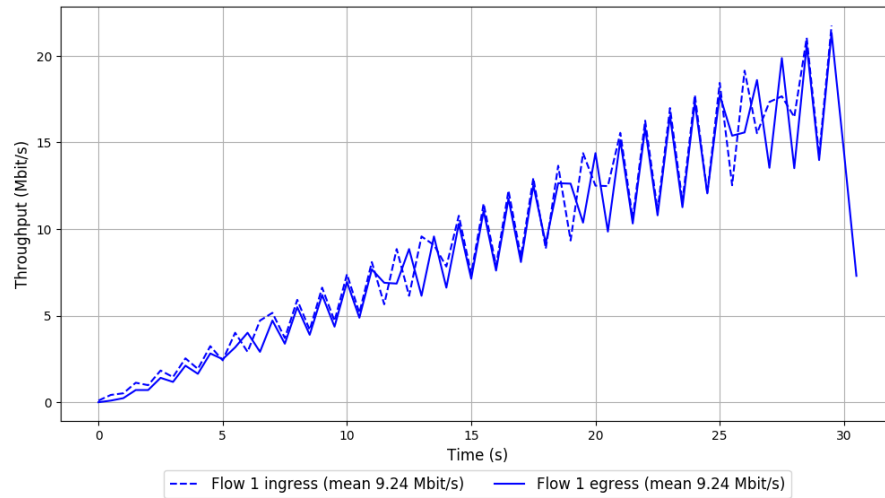• Flow 1 (95th percentile 68.60 ms)

```
Run 4: Statistics of LEDBAT

Start at: 2019-06-27 20:46:07
End at: 2019-06-27 20:46:37
Local clock offset: -0.74 ms
Remote clock offset: -31.741 ms

# Below is generated by plot.py at 2019-06-27 21:48:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.24 Mbit/s
95th percentile per-packet one-way delay: 73.064 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.24 Mbit/s
95th percentile per-packet one-way delay: 73.064 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 9.24 Mbit/s) --- Flow 1 egress (mean 9.24 Mbit/s)

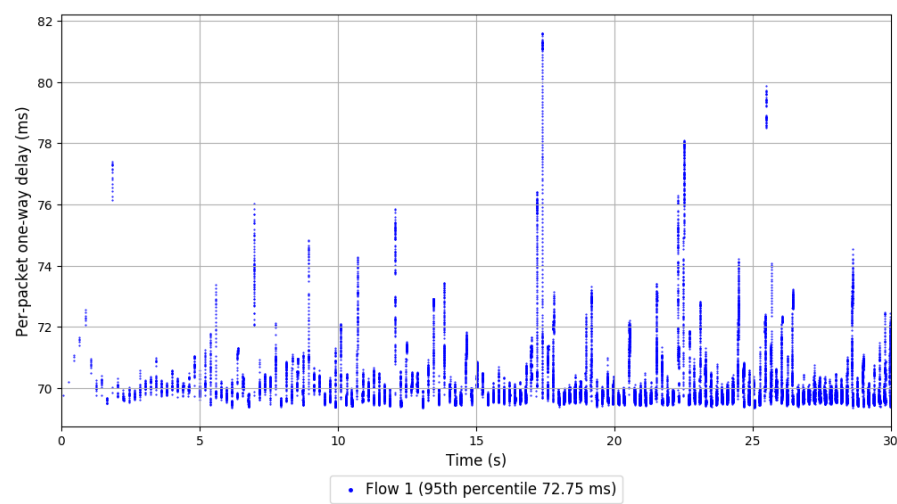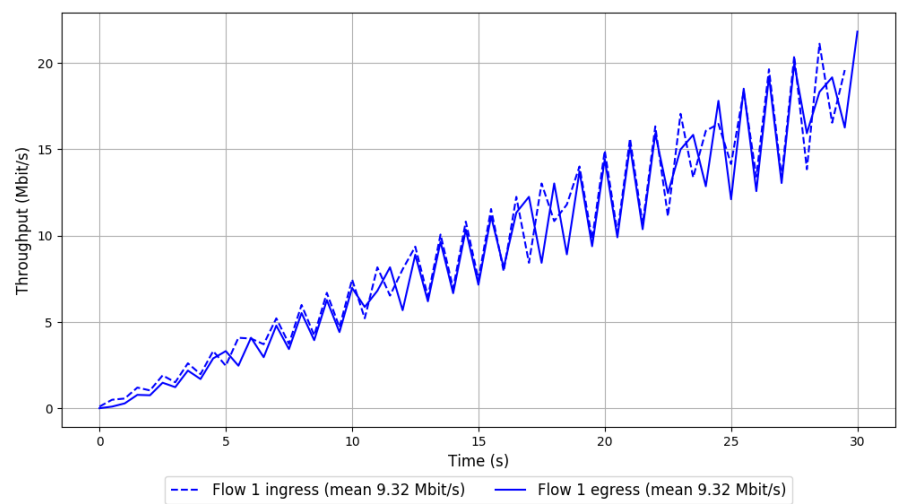• Flow 1 (95th percentile 73.06 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2019-06-27 21:14:58
End at: 2019-06-27 21:15:28
Local clock offset: -0.49 ms
Remote clock offset: -30.184 ms


# Below is generated by plot.py at 2019-06-27 21:48:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 72.755 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 72.755 ms
Loss rate: 0.00%
```
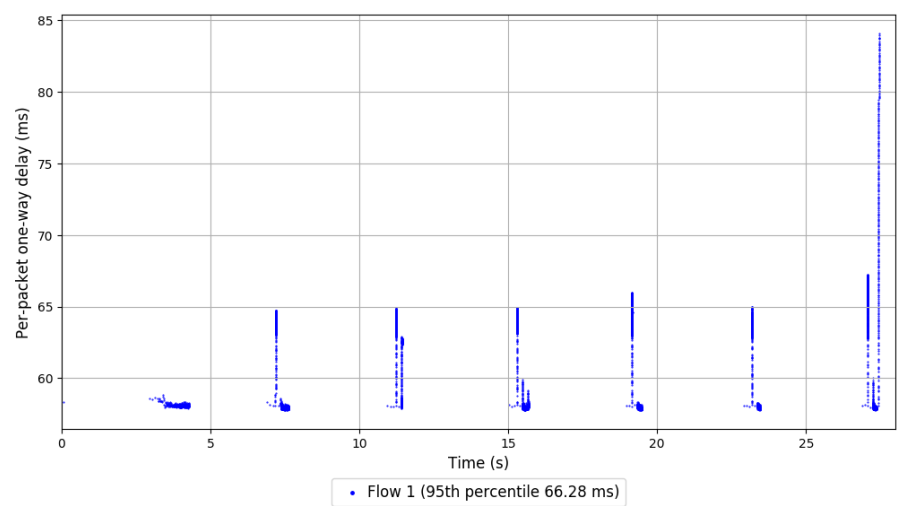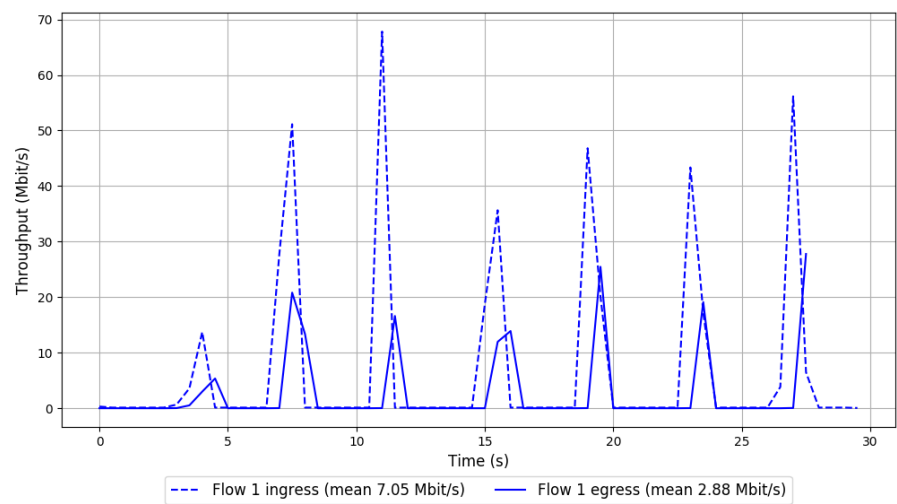
Run 5: Report of LEDBAT — Data Link

Run 1: Statistics of Muses_DecisionTree

Start at: 2019-06-27 19:17:32
End at: 2019-06-27 19:18:02
Local clock offset: -1.388 ms
Remote clock offset: -35.109 ms

Below is generated by plot.py at 2019-06-27 21:48:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 66.279 ms
Loss rate: 62.23%
-- Flow 1:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 66.279 ms
Loss rate: 62.23%

Run 1: Report of Muses_DecisionTree — Data Link
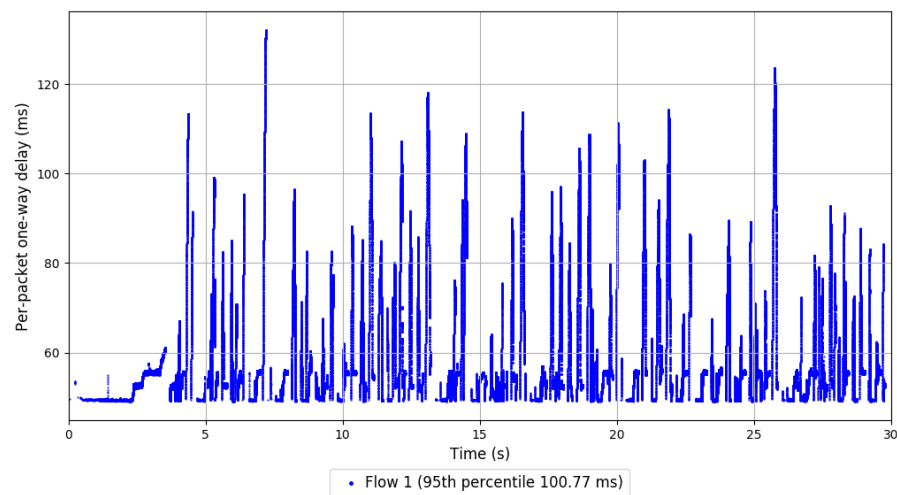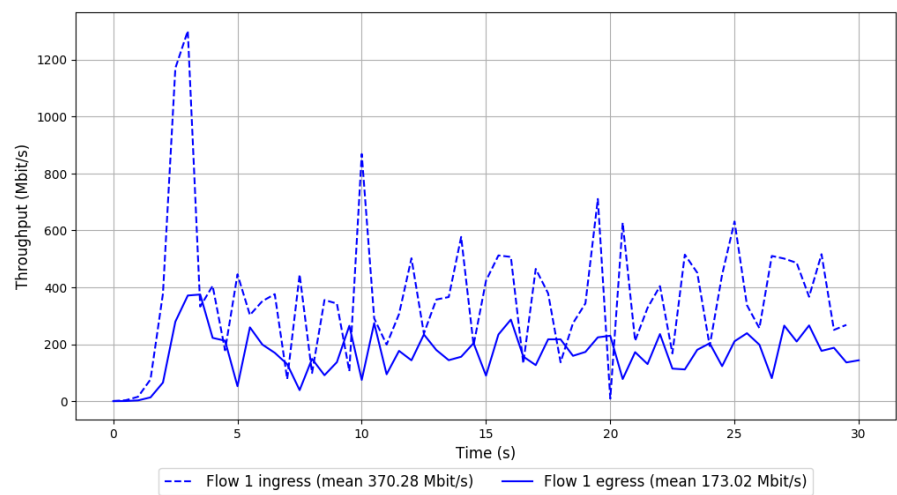
```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-06-27 19:45:53
End at: 2019-06-27 19:46:23
Local clock offset: -1.518 ms
Remote clock offset: -44.504 ms


# Below is generated by plot.py at 2019-06-27 21:48:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.02 Mbit/s
95th percentile per-packet one-way delay: 100.767 ms
Loss rate: 53.27%
-- Flow 1:
Average throughput: 173.02 Mbit/s
95th percentile per-packet one-way delay: 100.767 ms
Loss rate: 53.27%
```

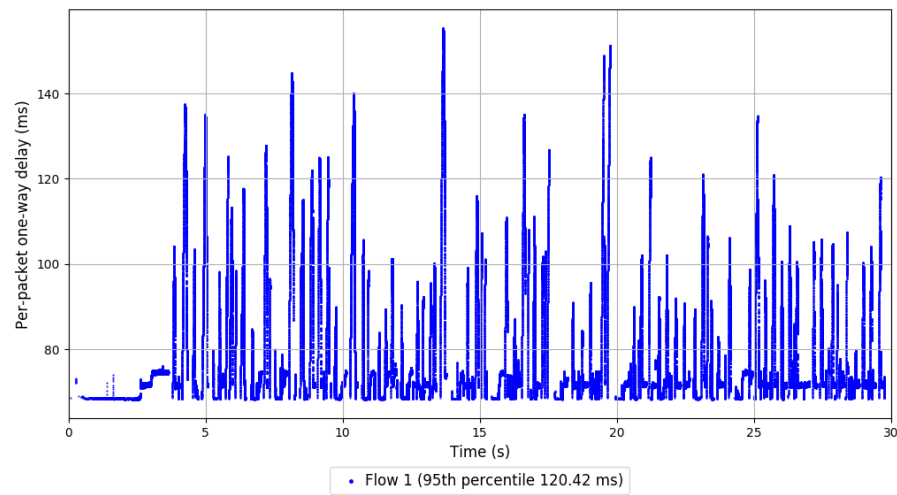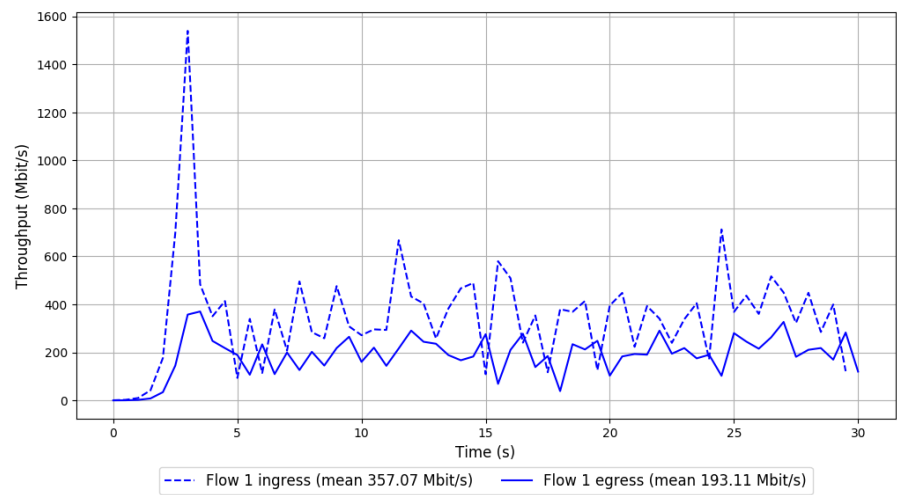Run 2: Report of Muses_DecisionTree — Data Link

```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-06-27 20:14:24
End at: 2019-06-27 20:14:54
Local clock offset: -0.221 ms
Remote clock offset: -33.411 ms


# Below is generated by plot.py at 2019-06-27 21:48:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.11 Mbit/s
95th percentile per-packet one-way delay: 120.425 ms
Loss rate: 45.92%
-- Flow 1:
Average throughput: 193.11 Mbit/s
95th percentile per-packet one-way delay: 120.425 ms
Loss rate: 45.92%
```

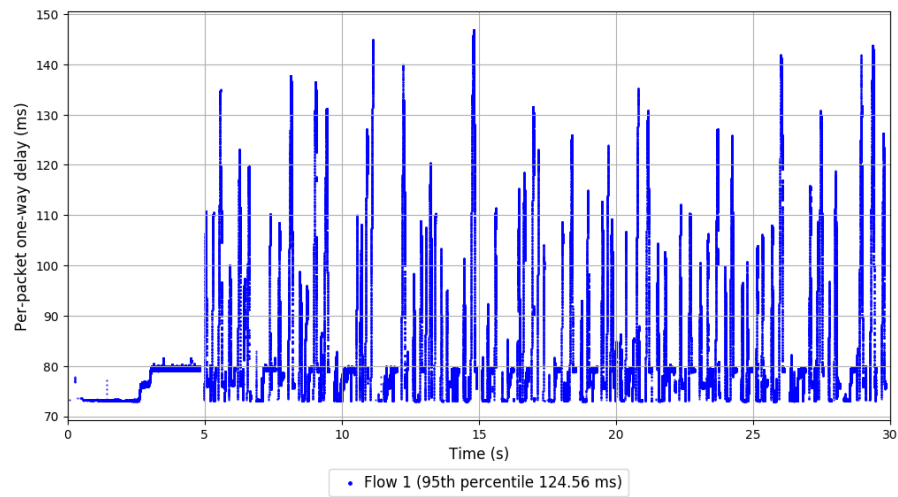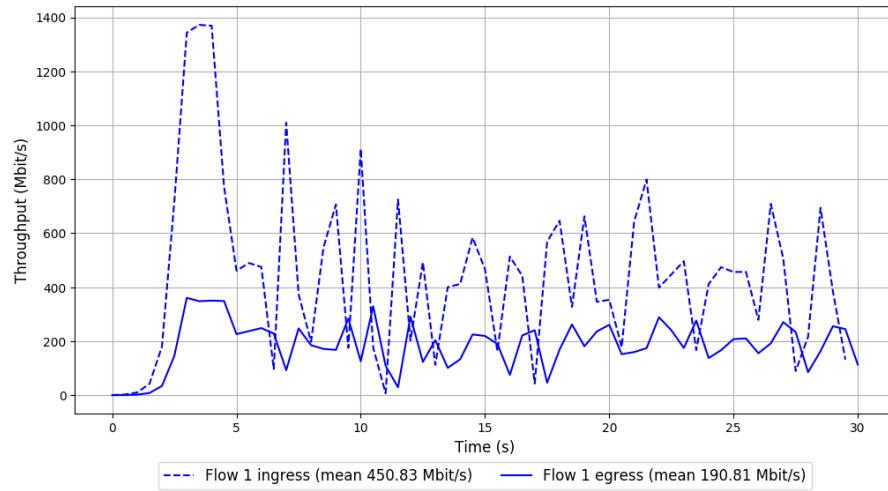Run 3: Report of Muses_DecisionTree — Data Link

```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-06-27 20:43:18
End at: 2019-06-27 20:43:48
Local clock offset: -0.923 ms
Remote clock offset: -27.862 ms


# Below is generated by plot.py at 2019-06-27 21:50:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.81 Mbit/s
95th percentile per-packet one-way delay: 124.559 ms
Loss rate: 57.67%
-- Flow 1:
Average throughput: 190.81 Mbit/s
95th percentile per-packet one-way delay: 124.559 ms
Loss rate: 57.67%
```

Run 4: Report of Muses_DecisionTree — Data Link

Flow 1 ingress (mean 450.83 Mbit/s)   Flow 1 egress (mean 190.81 Mbit/s)

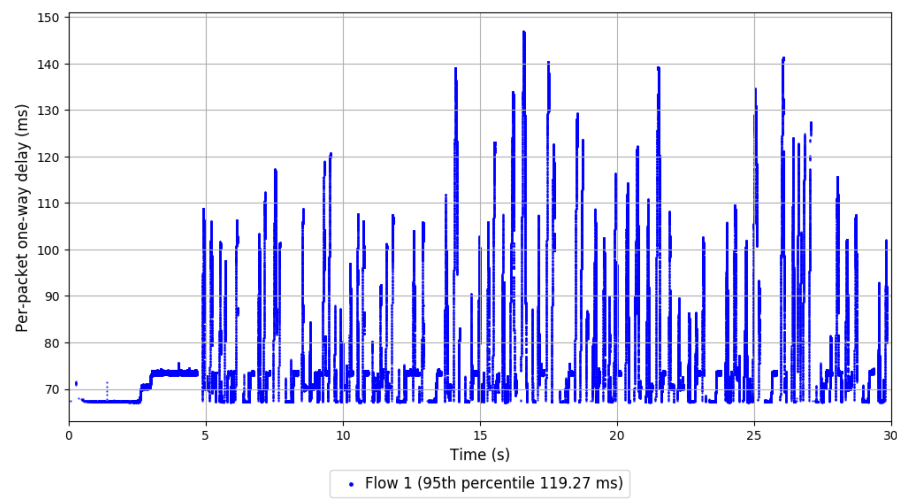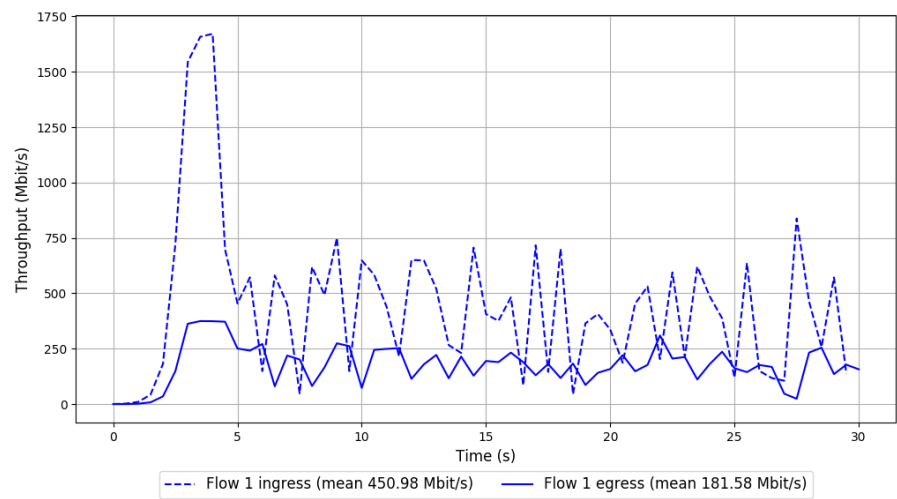• Flow 1 (95th percentile 124.56 ms)

```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-06-27 21:12:09
End at: 2019-06-27 21:12:39
Local clock offset: -0.992 ms
Remote clock offset: -32.932 ms


# Below is generated by plot.py at 2019-06-27 21:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.58 Mbit/s
95th percentile per-packet one-way delay: 119.270 ms
Loss rate: 59.72%
-- Flow 1:
Average throughput: 181.58 Mbit/s
95th percentile per-packet one-way delay: 119.270 ms
Loss rate: 59.72%
```

Run 5: Report of Muses_DecisionTree — Data Link

```
Run 1: Statistics of PCC-Allegro

Start at: 2019-06-27 19:29:22
End at: 2019-06-27 19:29:52
Local clock offset: -1.154 ms
Remote clock offset: -37.042 ms


# Below is generated by plot.py at 2019-06-27 21:53:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 469.67 Mbit/s
95th percentile per-packet one-way delay: 58.177 ms
Loss rate: 2.98%
-- Flow 1:
Average throughput: 469.67 Mbit/s
95th percentile per-packet one-way delay: 58.177 ms
Loss rate: 2.98%
```
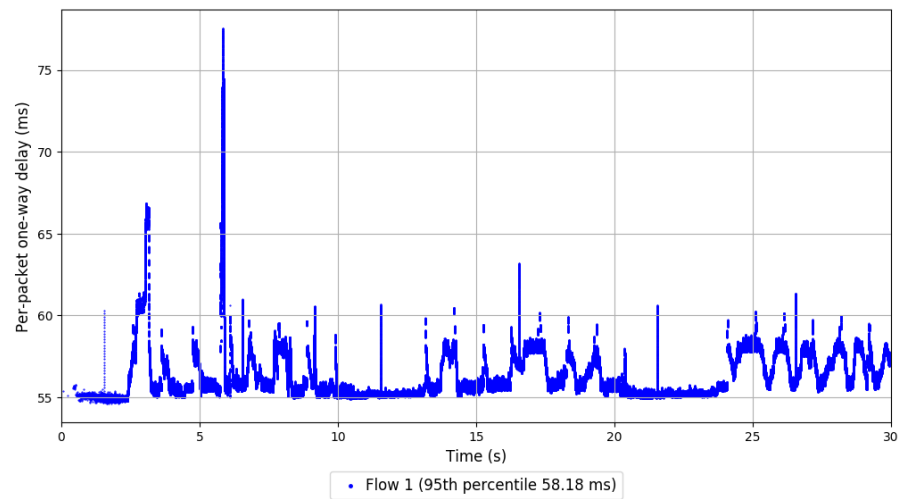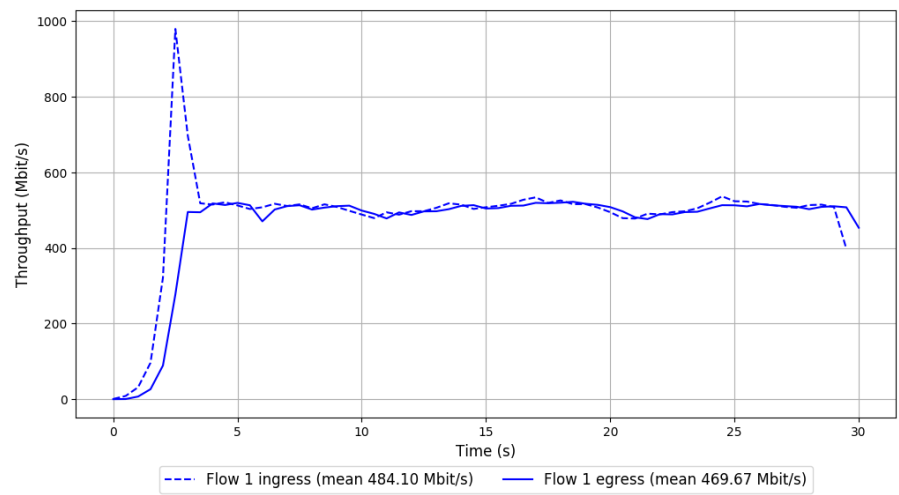
Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2019-06-27 19:57:44
End at: 2019-06-27 19:58:14
Local clock offset: -1.607 ms
Remote clock offset: -44.151 ms


# Below is generated by plot.py at 2019-06-27 21:53:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 50.725 ms
Loss rate: 99.02%
-- Flow 1:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 50.725 ms
Loss rate: 99.02%
```
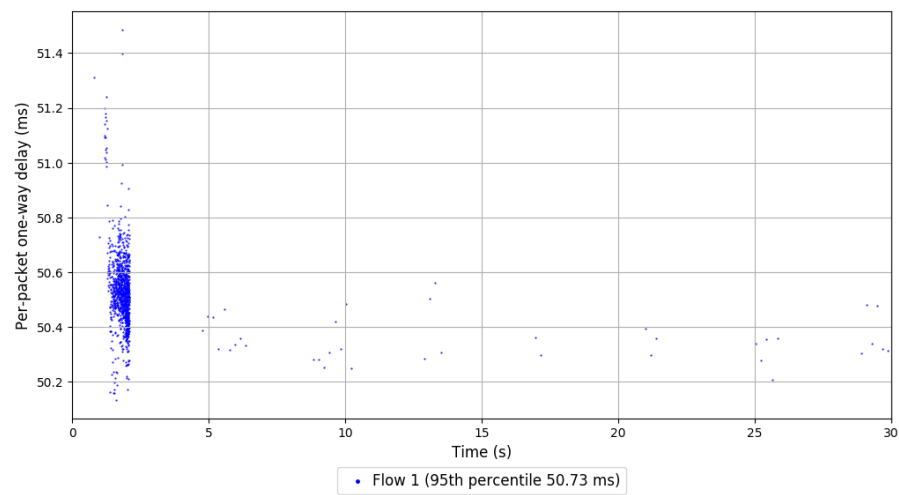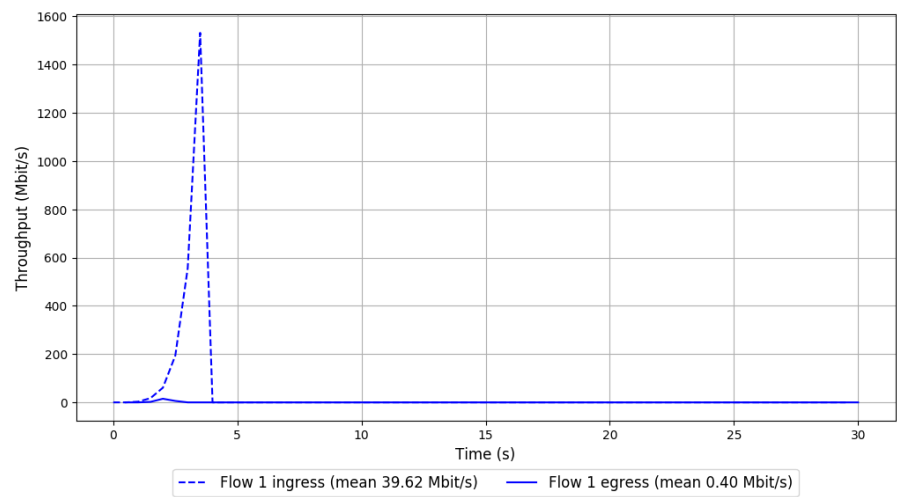
Run 2: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 39.62 Mbit/s)   Flow 1 egress (mean 0.40 Mbit/s)

• Flow 1 (95th percentile 50.73 ms)

```
Run 3: Statistics of PCC-Allegro

Start at: 2019-06-27 20:26:36
End at: 2019-06-27 20:27:06
Local clock offset: -0.755 ms
Remote clock offset: -28.787 ms


# Below is generated by plot.py at 2019-06-27 21:53:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 463.19 Mbit/s
95th percentile per-packet one-way delay: 74.868 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 463.19 Mbit/s
95th percentile per-packet one-way delay: 74.868 ms
Loss rate: 2.85%
```
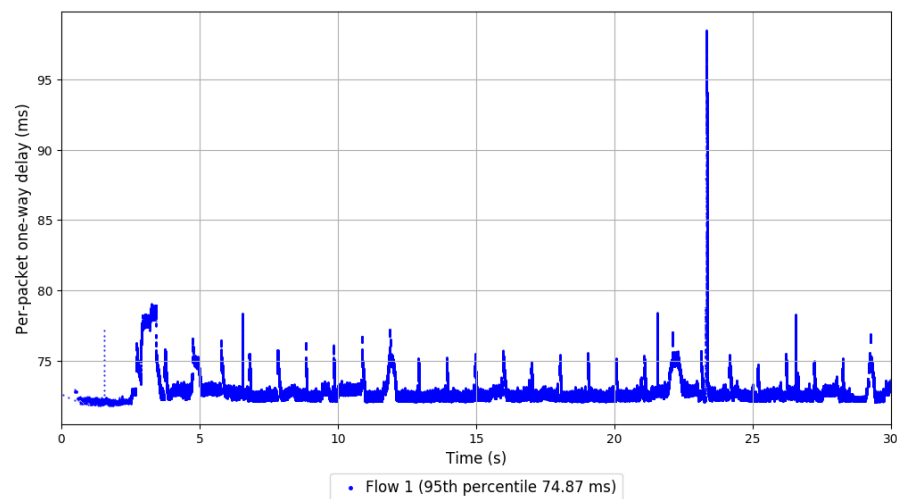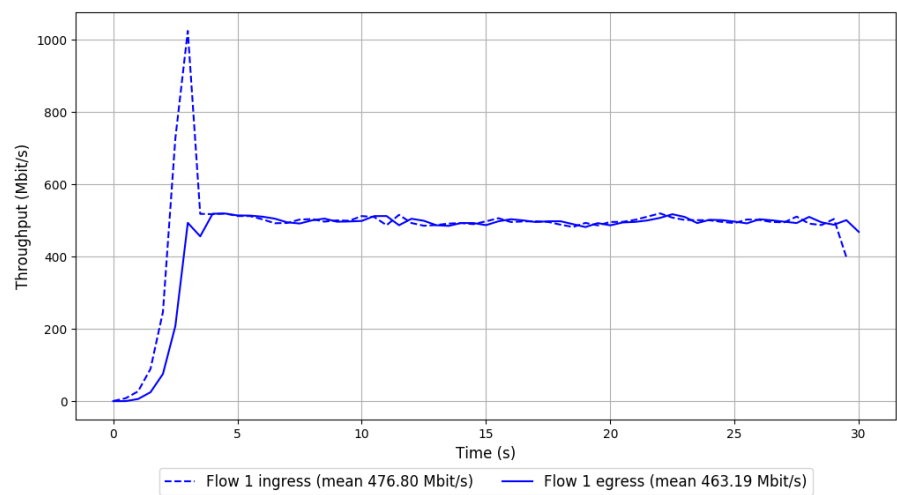
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 476.80 Mbit/s) —— Flow 1 egress (mean 463.19 Mbit/s)

• Flow 1 (95th percentile 74.87 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2019-06-27 20:55:29
End at: 2019-06-27 20:55:59
Local clock offset: -0.835 ms
Remote clock offset: -32.972 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 466.73 Mbit/s
95th percentile per-packet one-way delay: 70.209 ms
Loss rate: 3.63%
-- Flow 1:
Average throughput: 466.73 Mbit/s
95th percentile per-packet one-way delay: 70.209 ms
Loss rate: 3.63%
```
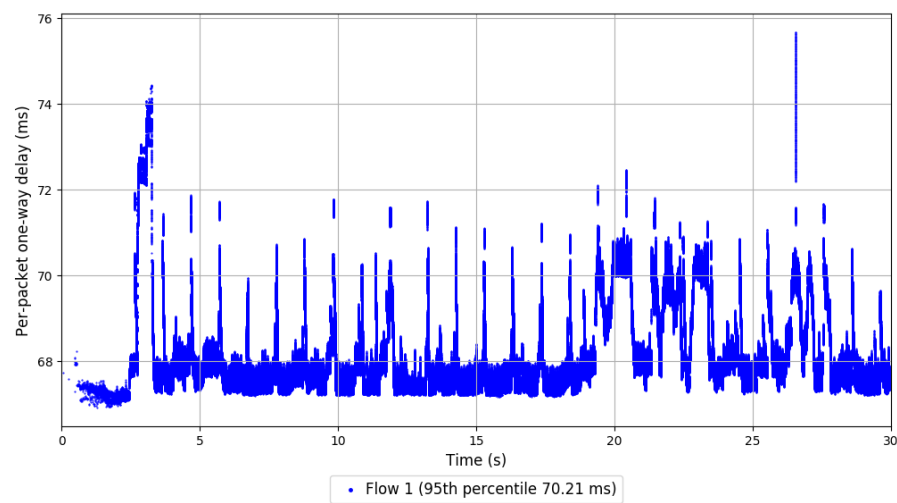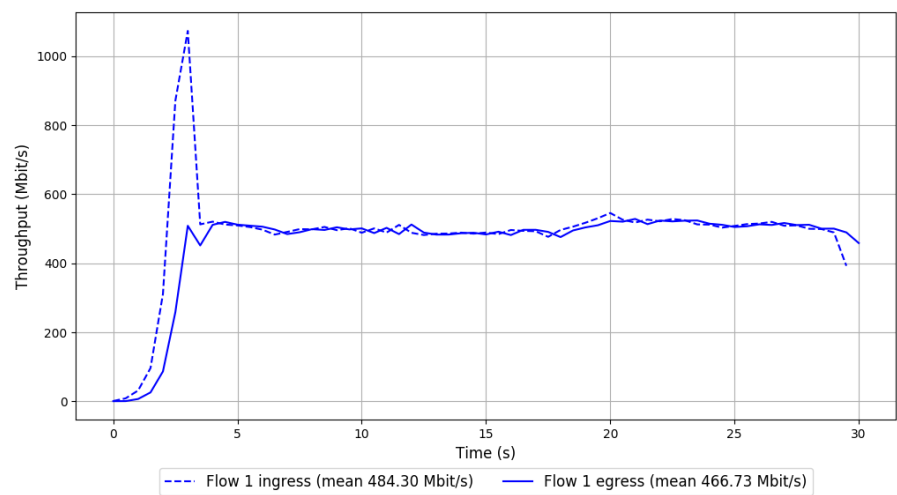
Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 484.30 Mbit/s)   Flow 1 egress (mean 466.73 Mbit/s)

Flow 1 (95th percentile 70.21 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2019-06-27 21:24:20
End at: 2019-06-27 21:24:50
Local clock offset: -1.255 ms
Remote clock offset: -35.495 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 443.08 Mbit/s
95th percentile per-packet one-way delay: 65.719 ms
Loss rate: 3.16%
-- Flow 1:
Average throughput: 443.08 Mbit/s
95th percentile per-packet one-way delay: 65.719 ms
Loss rate: 3.16%
```
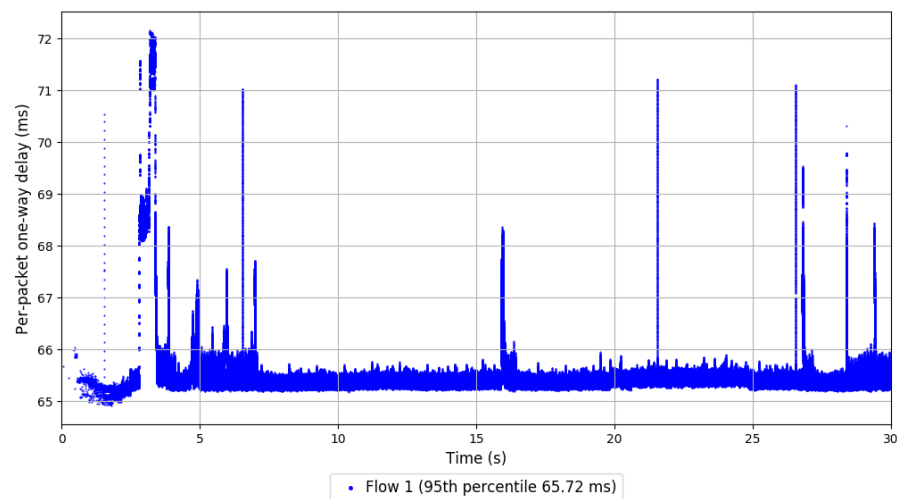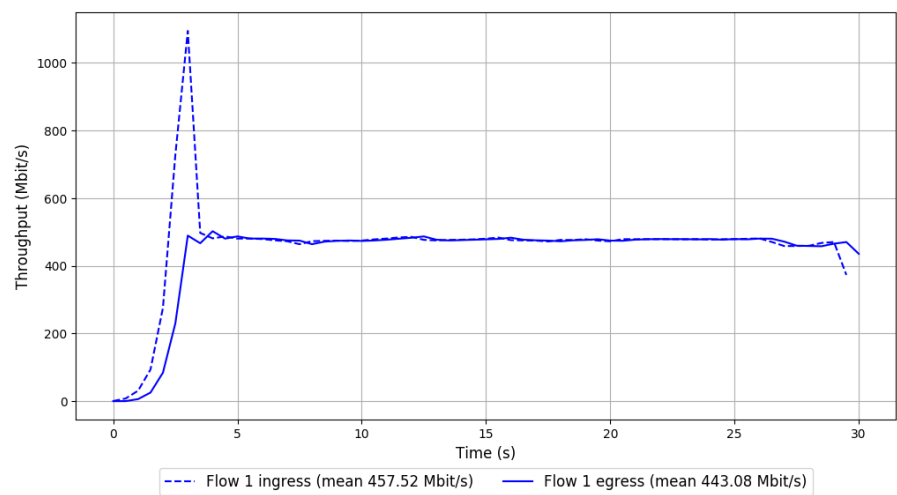
Run 5: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 457.52 Mbit/s)   Flow 1 egress (mean 443.08 Mbit/s)
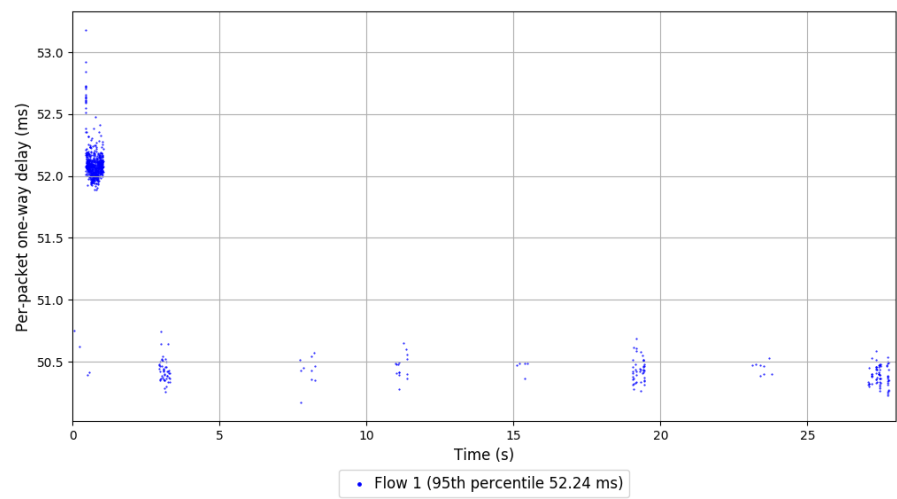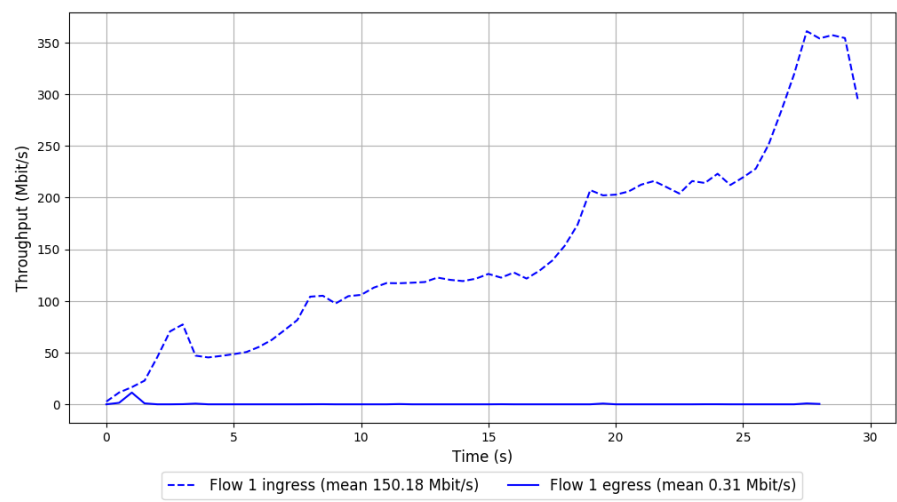

• Flow 1 (95th percentile 65.72 ms)

```
Run 1: Statistics of PCC-Expr

Start at: 2019-06-27 19:15:02
End at: 2019-06-27 19:15:32
Local clock offset: -1.331 ms
Remote clock offset: -41.141 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 52.236 ms
Loss rate: 99.81%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 52.236 ms
Loss rate: 99.81%
```

Run 1: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 150.18 Mbit/s) --- Flow 1 egress (mean 0.31 Mbit/s)

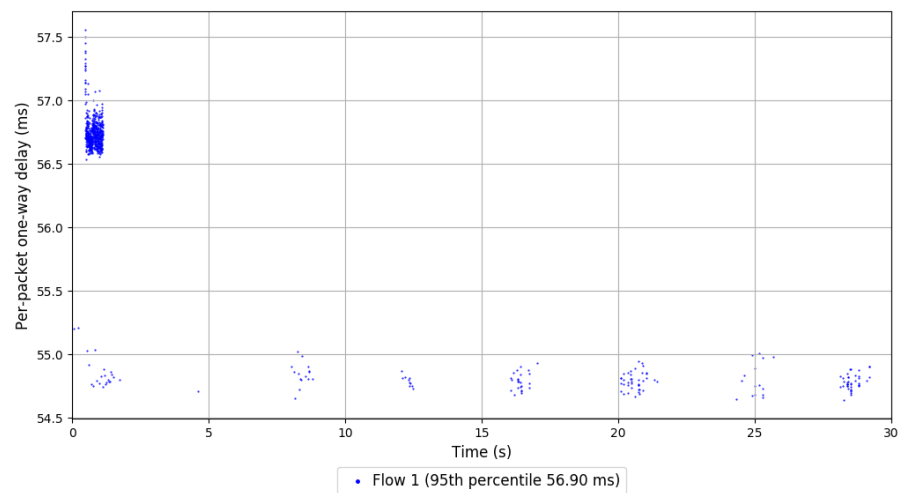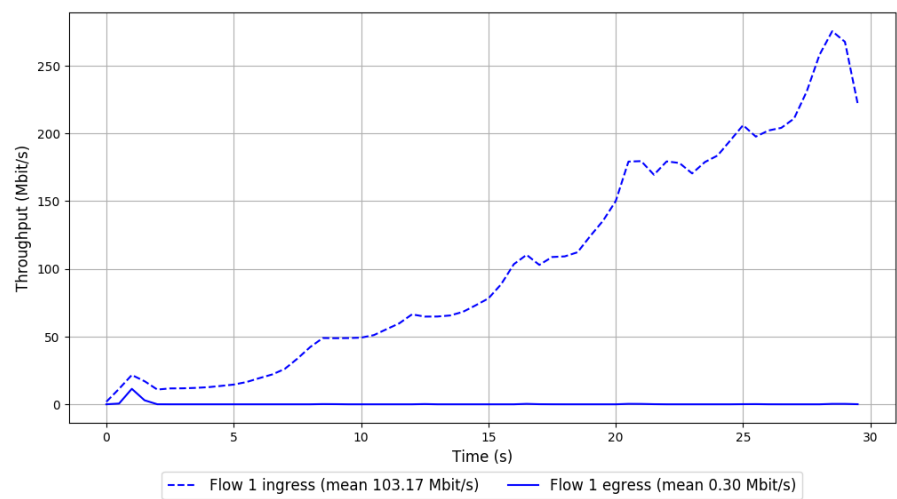

Flow 1 (95th percentile 52.24 ms)

```
Run 2: Statistics of PCC-Expr

Start at: 2019-06-27 19:43:31
End at: 2019-06-27 19:44:01
Local clock offset: -2.197 ms
Remote clock offset: -38.199 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 56.898 ms
Loss rate: 99.72%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 56.898 ms
Loss rate: 99.72%
```

Run 2: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 103.17 Mbit/s)   Flow 1 egress (mean 0.30 Mbit/s)

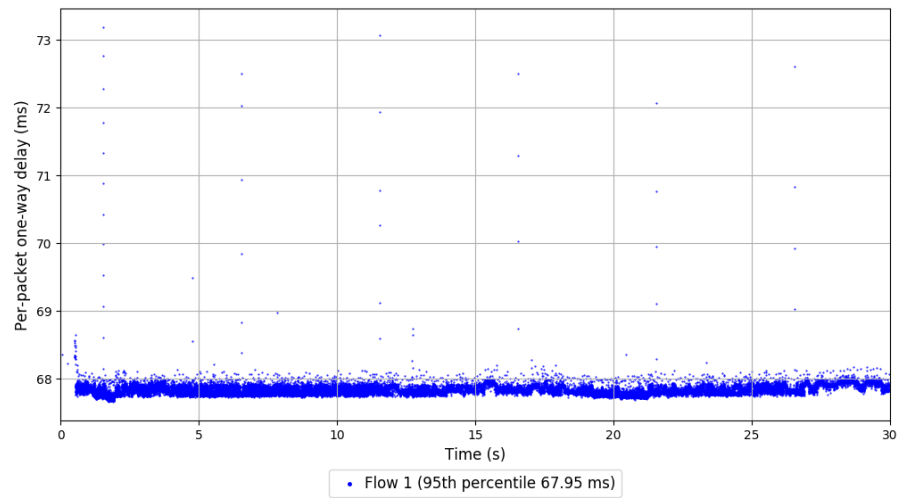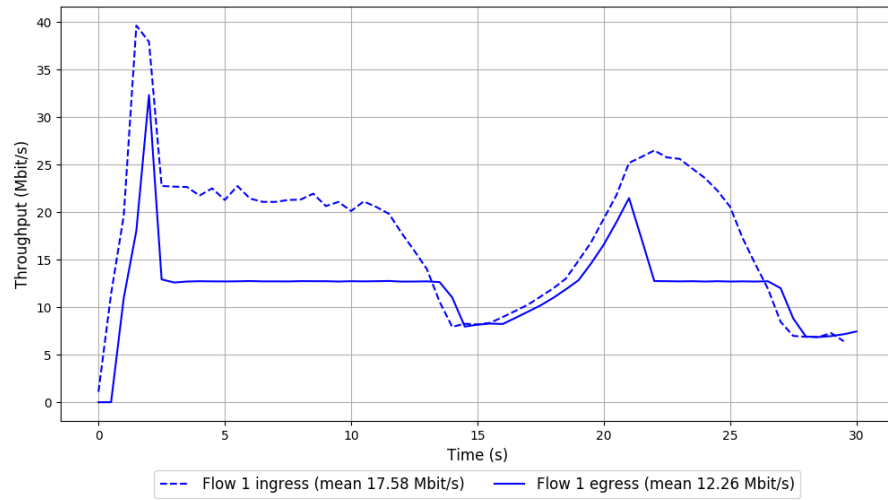
• Flow 1 (95th percentile 56.90 ms)

```
Run 3: Statistics of PCC-Expr

Start at: 2019-06-27 20:11:45
End at: 2019-06-27 20:12:15
Local clock offset: -0.426 ms
Remote clock offset: -33.264 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.26 Mbit/s
95th percentile per-packet one-way delay: 67.946 ms
Loss rate: 30.28%
-- Flow 1:
Average throughput: 12.26 Mbit/s
95th percentile per-packet one-way delay: 67.946 ms
Loss rate: 30.28%
```
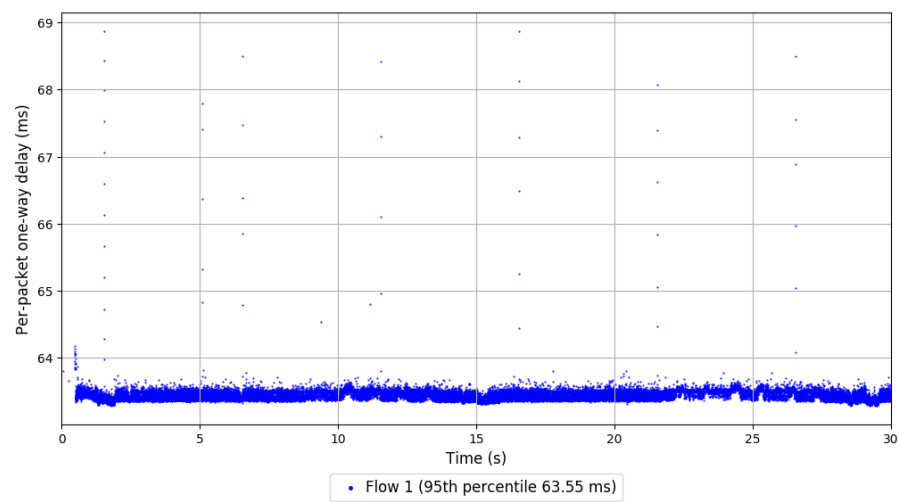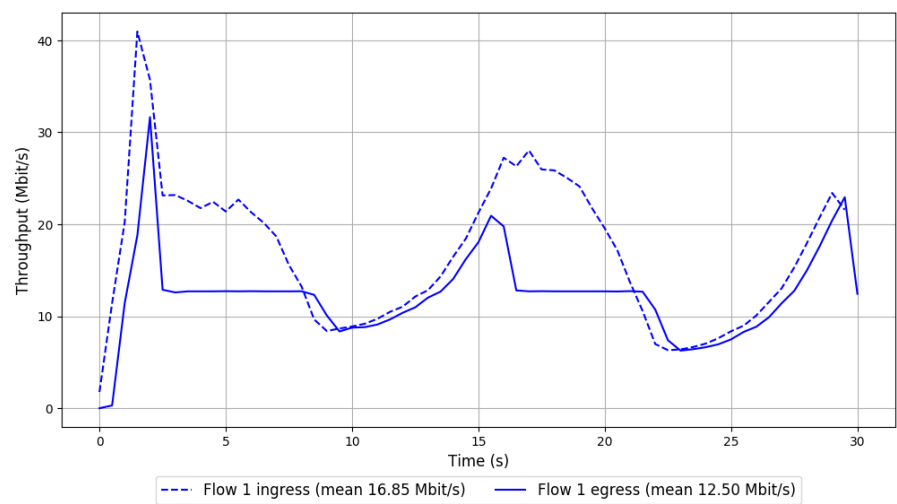
Run 3: Report of PCC-Expr — Data Link

```
Run 4: Statistics of PCC-Expr

Start at: 2019-06-27 20:40:39
End at: 2019-06-27 20:41:09
Local clock offset: -0.542 ms
Remote clock offset: -36.862 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 63.550 ms
Loss rate: 25.82%
-- Flow 1:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 63.550 ms
Loss rate: 25.82%
```
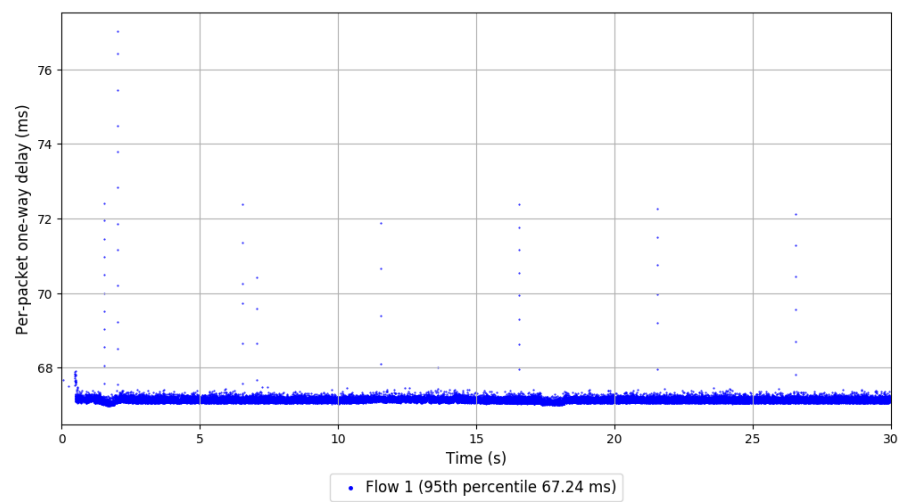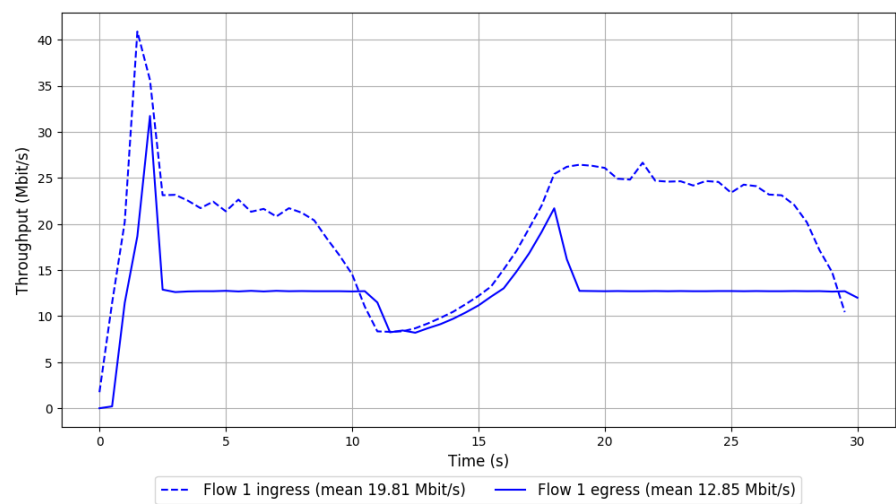
Run 4: Report of PCC-Expr — Data Link

```
Run 5: Statistics of PCC-Expr

Start at: 2019-06-27 21:09:29
End at: 2019-06-27 21:09:59
Local clock offset: -1.668 ms
Remote clock offset: -33.727 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.85 Mbit/s
95th percentile per-packet one-way delay: 67.238 ms
Loss rate: 35.12%
-- Flow 1:
Average throughput: 12.85 Mbit/s
95th percentile per-packet one-way delay: 67.238 ms
Loss rate: 35.12%
```
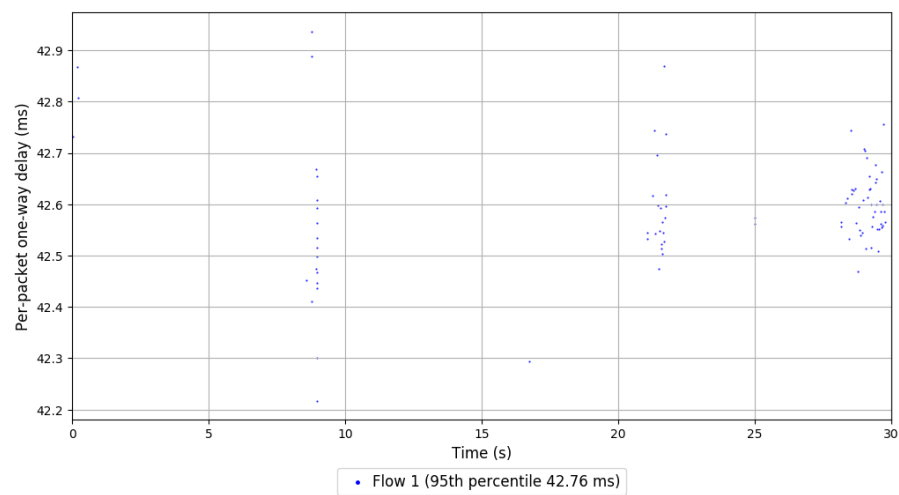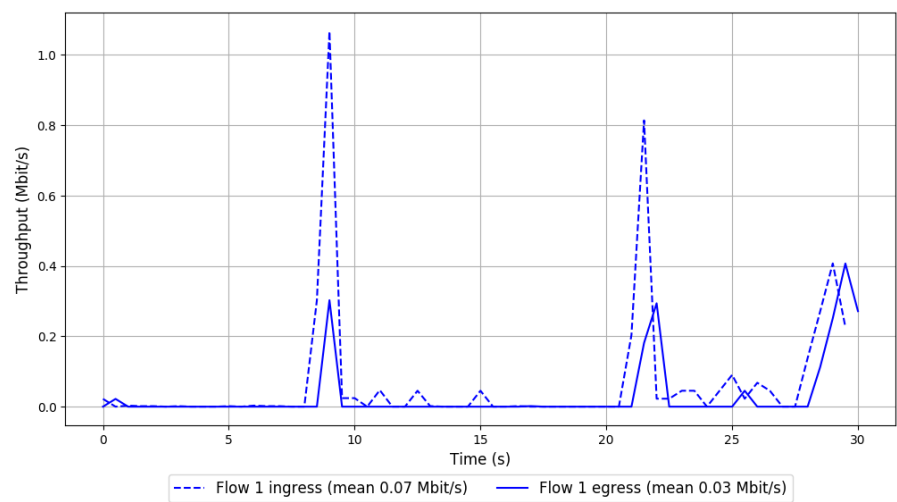
Run 5: Report of PCC-Expr — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2019-06-27 19:30:53
End at: 2019-06-27 19:31:23
Local clock offset: -0.903 ms
Remote clock offset: -48.773 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 42.756 ms
Loss rate: 53.50%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 42.756 ms
Loss rate: 53.50%
```

Run 1: Report of QUIC Cubic — Data Link

Run 2: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2019-06-27T19-05-AWS-India-2-to-Saudi-Arabia-5-runs/quic_stats_r
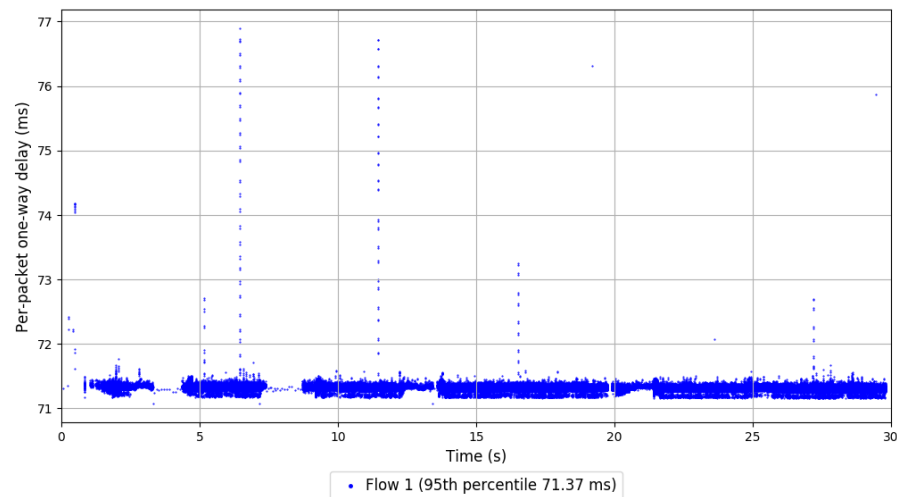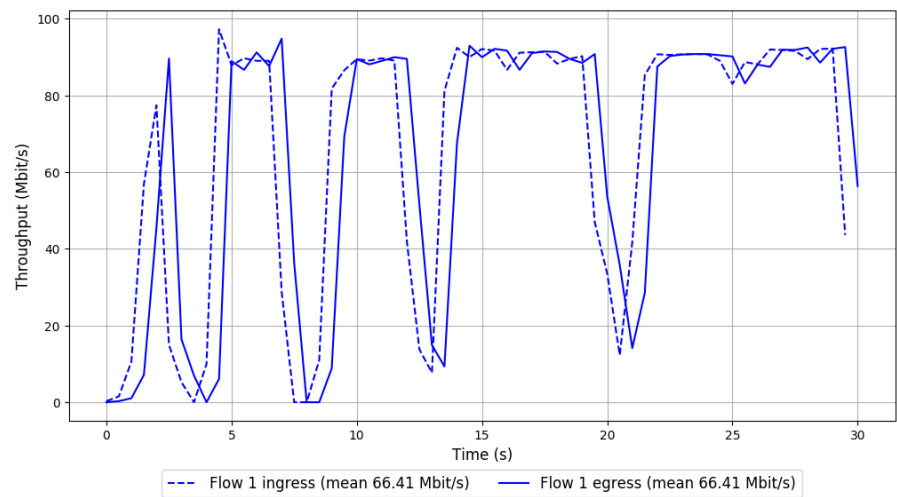
Run 2: Report of QUIC Cubic — Data Link

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Figure is missing

```
Run 3: Statistics of QUIC Cubic

Start at: 2019-06-27 20:28:02
End at: 2019-06-27 20:28:32
Local clock offset: -0.293 ms
Remote clock offset: -28.698 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.41 Mbit/s
95th percentile per-packet one-way delay: 71.366 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.41 Mbit/s
95th percentile per-packet one-way delay: 71.366 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 66.41 Mbit/s) —— Flow 1 egress (mean 66.41 Mbit/s)
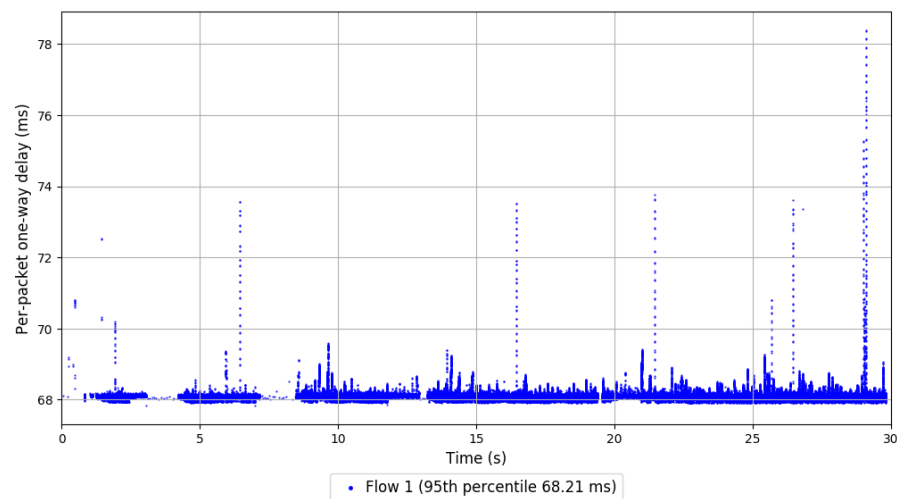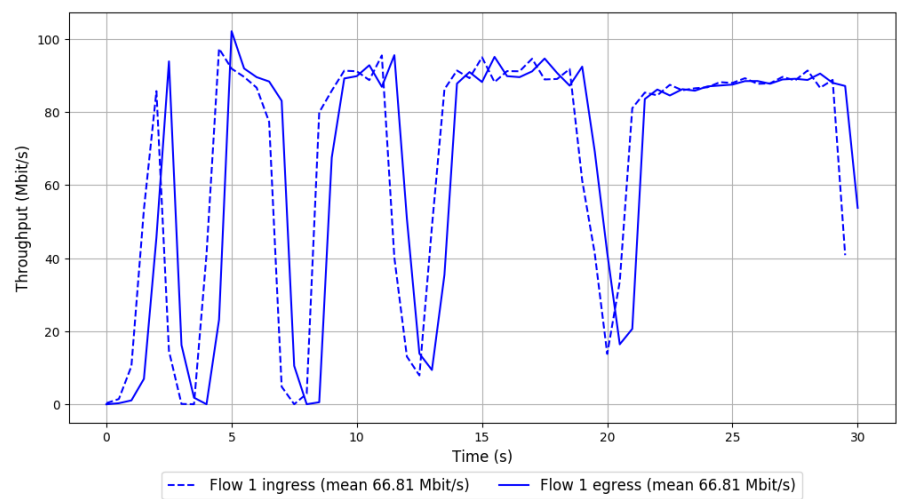

• Flow 1 (95th percentile 71.37 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2019-06-27 20:56:55
End at: 2019-06-27 20:57:25
Local clock offset: -1.55 ms
Remote clock offset: -32.822 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.81 Mbit/s
95th percentile per-packet one-way delay: 68.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.81 Mbit/s
95th percentile per-packet one-way delay: 68.208 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 66.81 Mbit/s)   Flow 1 egress (mean 66.81 Mbit/s)
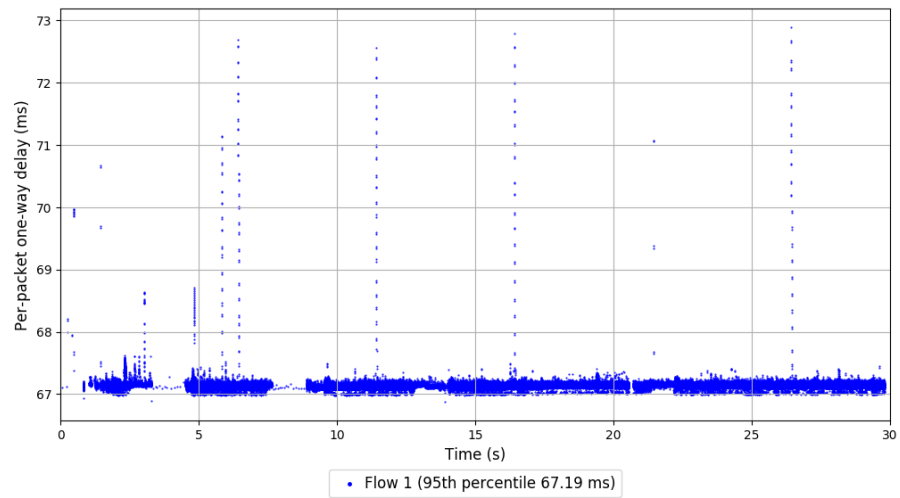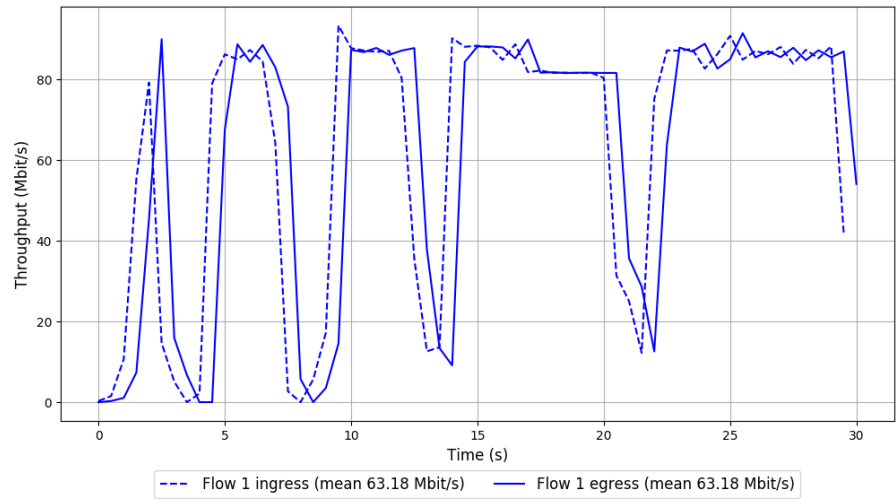

Flow 1 (95th percentile 68.21 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2019-06-27 21:25:45
End at: 2019-06-27 21:26:15
Local clock offset: -0.38 ms
Remote clock offset: -32.883 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.18 Mbit/s
95th percentile per-packet one-way delay: 67.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.18 Mbit/s
95th percentile per-packet one-way delay: 67.188 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2019-06-27 19:33:37
End at: 2019-06-27 19:34:07
Local clock offset: -0.318 ms
Remote clock offset: -42.5 ms

# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 49.830 ms
Loss rate: 46.48%
-- Flow 1:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 49.830 ms
Loss rate: 46.48%
```
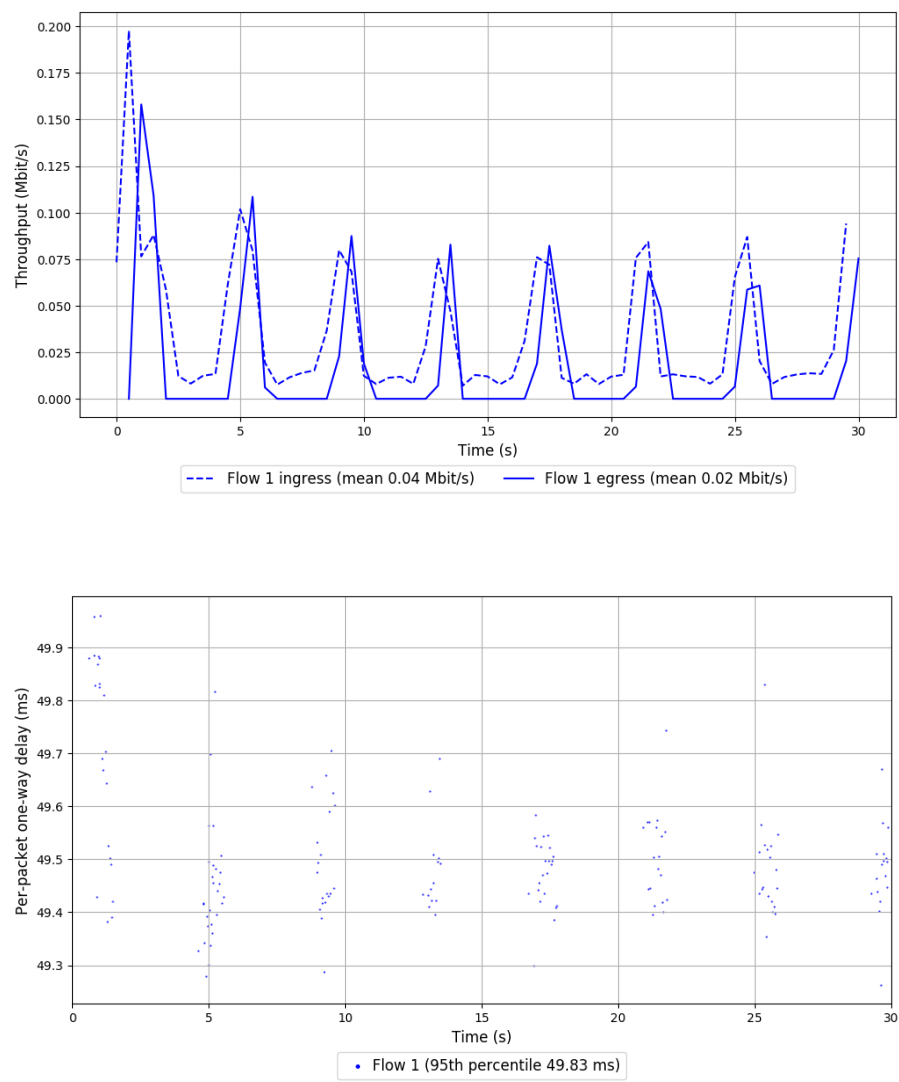
Run 1: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.04 Mbit/s) --- Flow 1 egress (mean 0.02 Mbit/s)

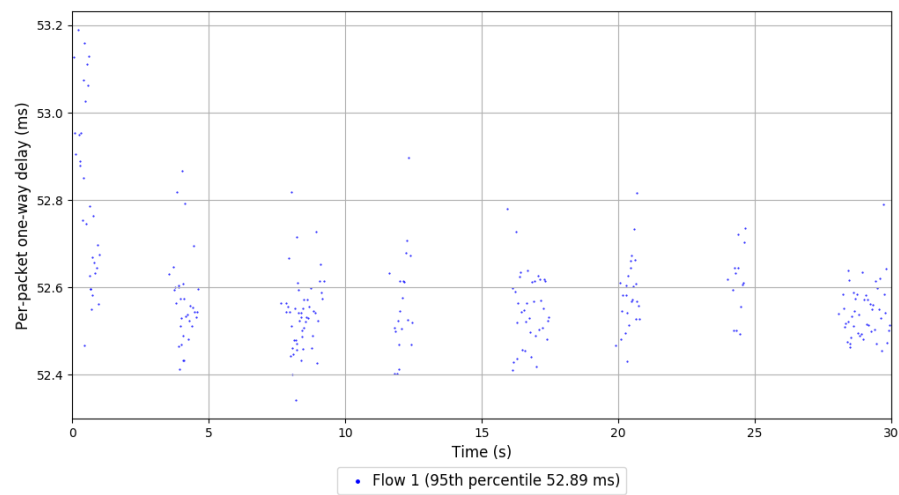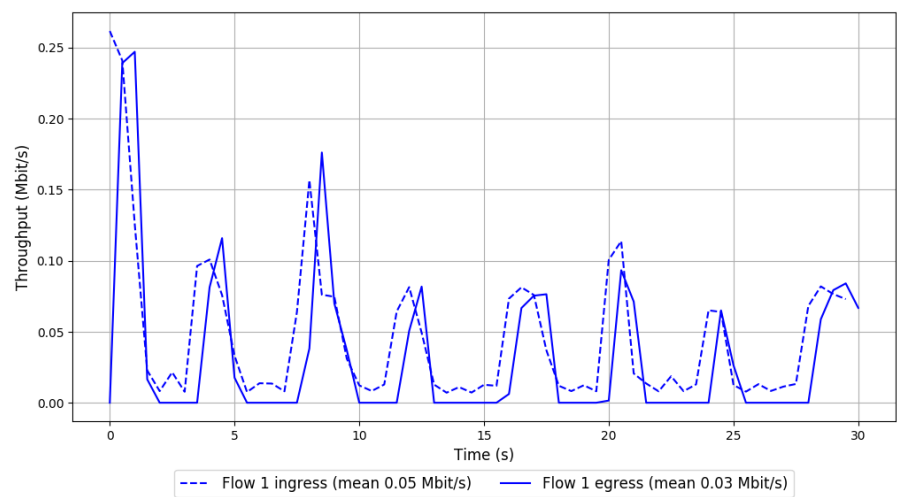Flow 1 (95th percentile 49.83 ms)

```
Run 2: Statistics of SCReAM

Start at: 2019-06-27 20:01:51
End at: 2019-06-27 20:02:21
Local clock offset: 1.451 ms
Remote clock offset: -39.28 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 52.889 ms
Loss rate: 31.35%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 52.889 ms
Loss rate: 31.35%
```
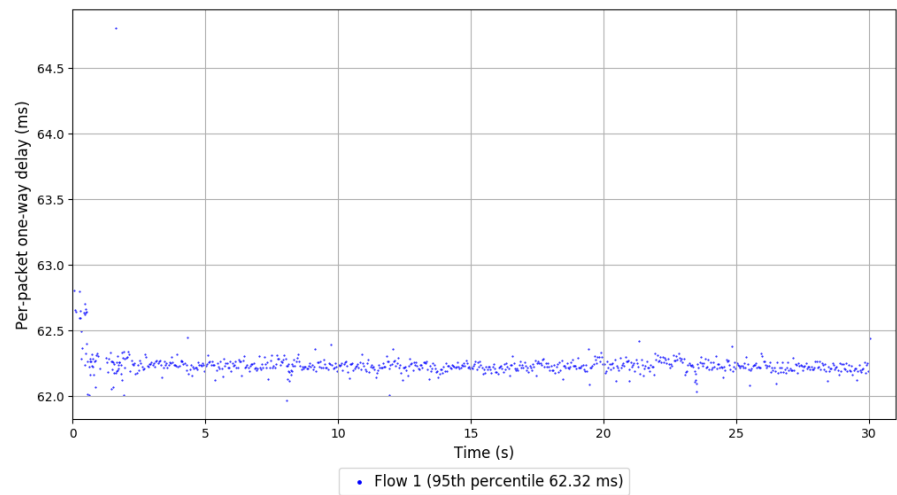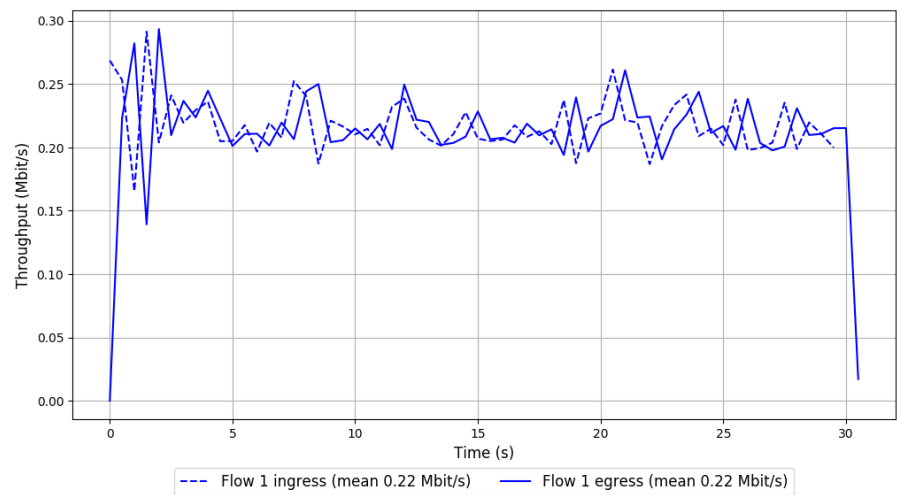
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2019-06-27 20:30:26
End at: 2019-06-27 20:30:56
Local clock offset: -1.226 ms
Remote clock offset: -39.034 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.316 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)

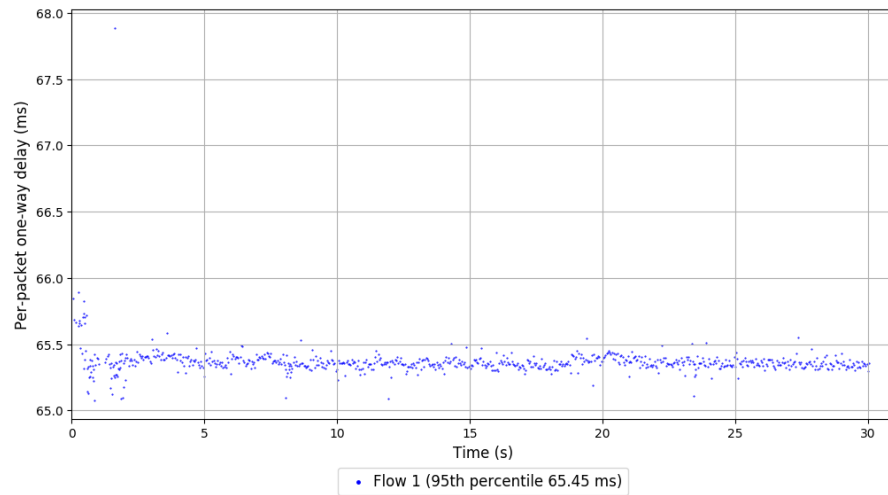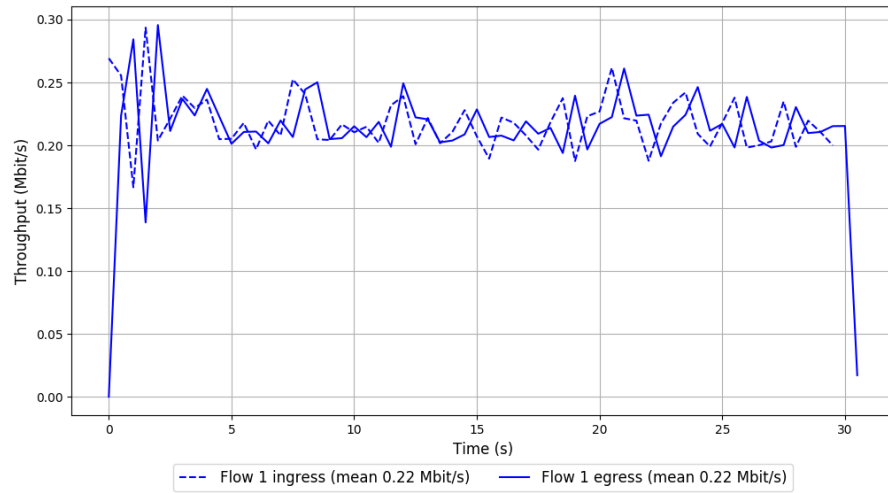Flow 1 (95th percentile 62.32 ms)

```
Run 4: Statistics of SCReAM

Start at: 2019-06-27 20:59:19
End at: 2019-06-27 20:59:49
Local clock offset: -1.347 ms
Remote clock offset: -35.69 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.449 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.449 ms
Loss rate: 0.00%
```
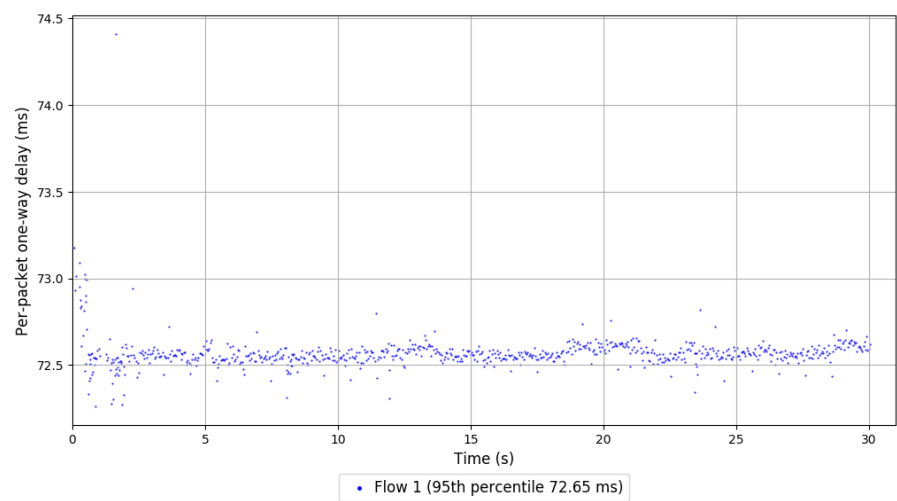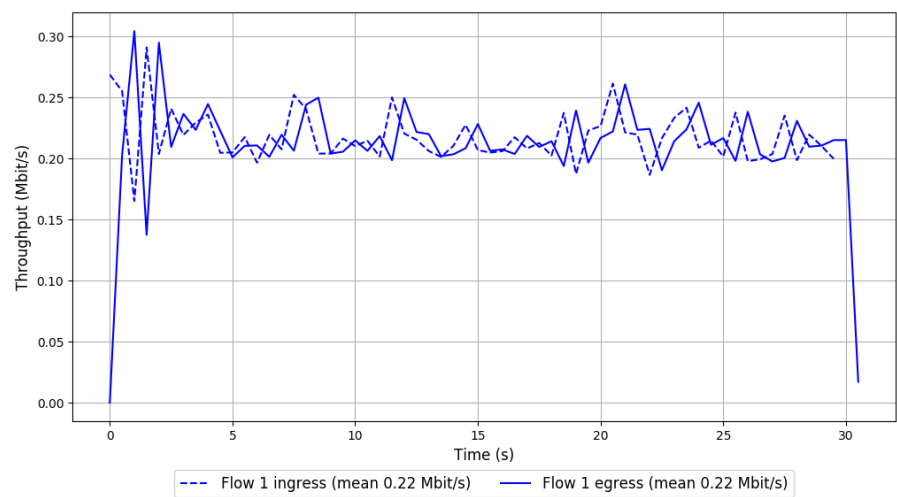
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2019-06-27 21:28:10
End at: 2019-06-27 21:28:40
Local clock offset: -1.032 ms
Remote clock offset: -28.289 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 72.646 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 72.646 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

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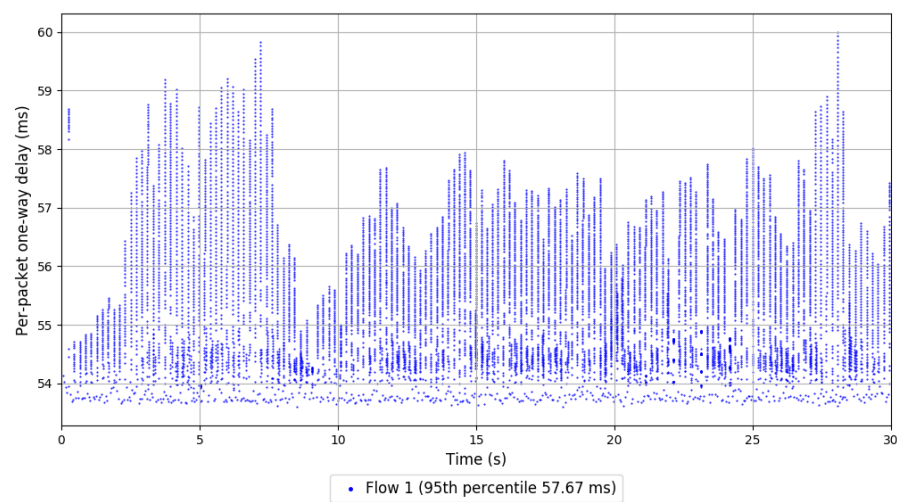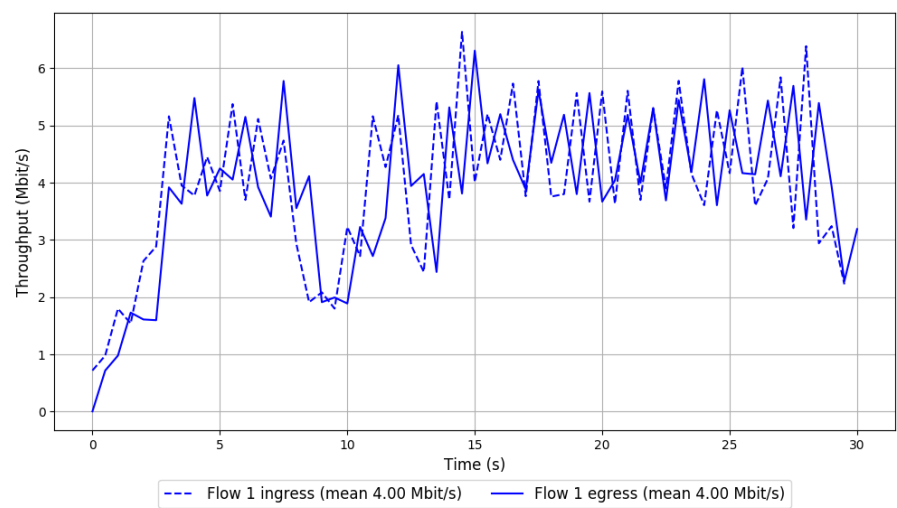

Flow 1 (95th percentile 72.65 ms)

```
Run 1: Statistics of Sprout

Start at: 2019-06-27 19:10:10
End at: 2019-06-27 19:10:40
Local clock offset: -0.776 ms
Remote clock offset: -36.667 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 57.672 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 57.672 ms
Loss rate: 0.00%
```
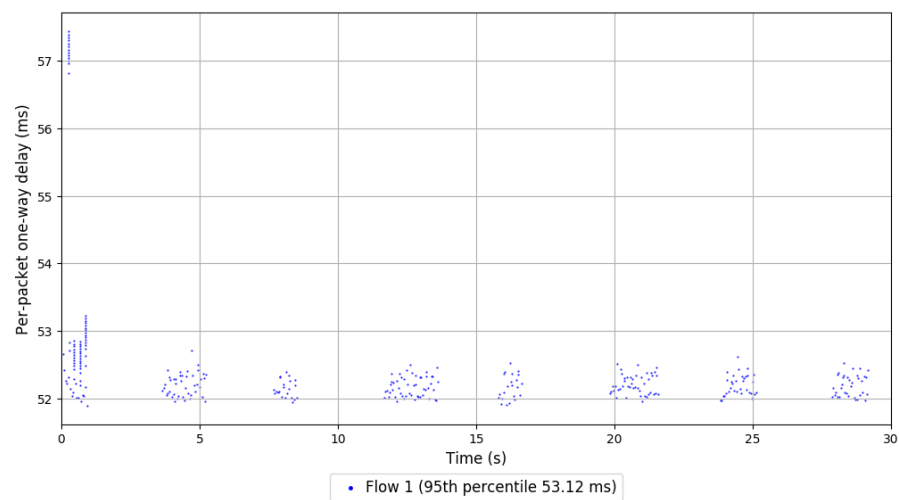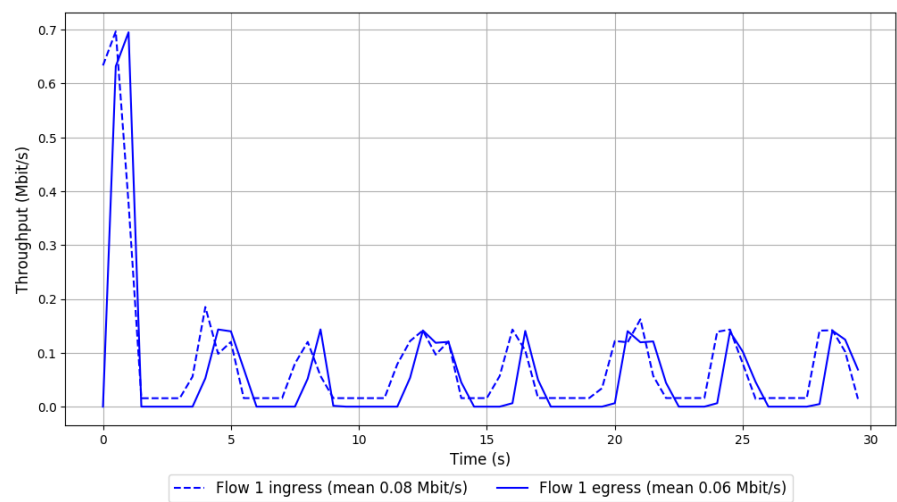
Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2019-06-27 19:38:49
End at: 2019-06-27 19:39:19
Local clock offset: -1.273 ms
Remote clock offset: -41.575 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.117 ms
Loss rate: 26.89%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.117 ms
Loss rate: 26.89%
```
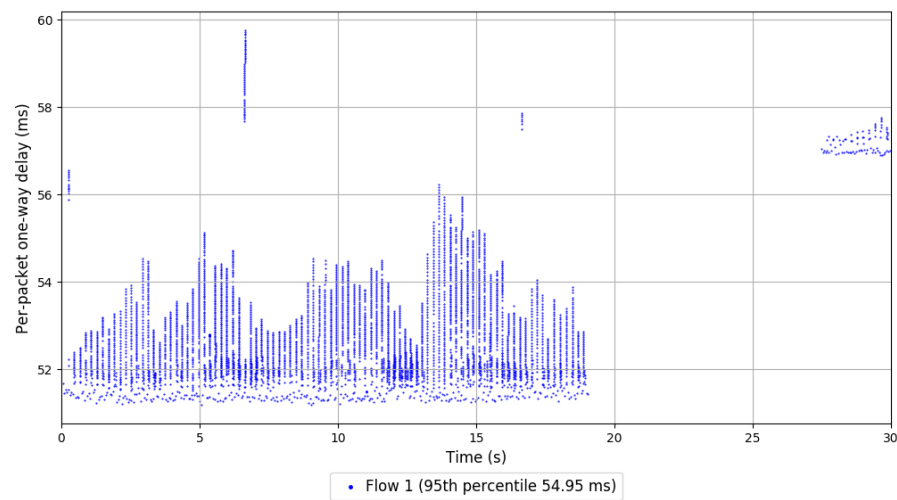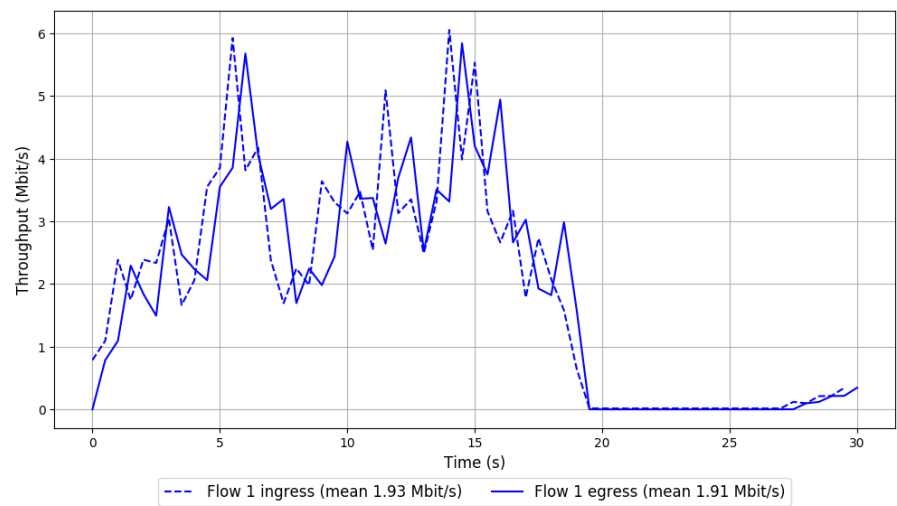
Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2019-06-27 20:06:48
End at: 2019-06-27 20:07:18
Local clock offset: -0.009 ms
Remote clock offset: -40.899 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 54.948 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 54.948 ms
Loss rate: 0.78%
```

Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 1.93 Mbit/s) —— Flow 1 egress (mean 1.91 Mbit/s)

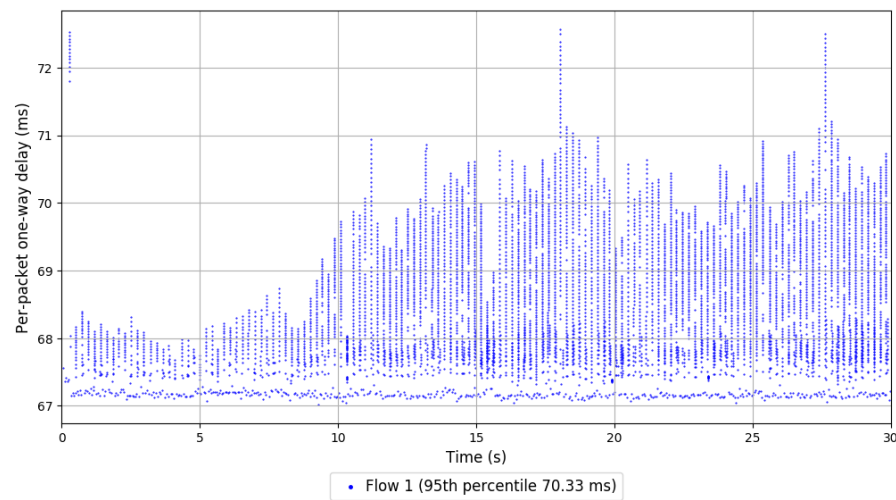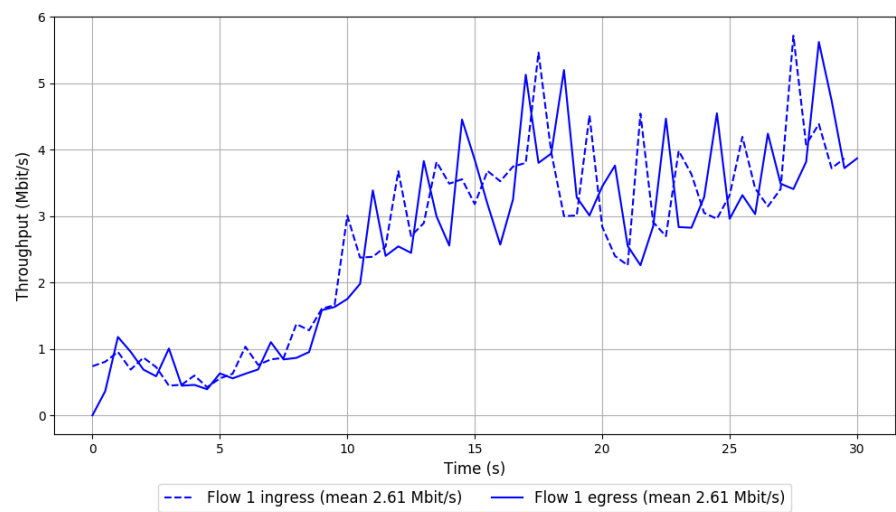• Flow 1 (95th percentile 54.95 ms)

```
Run 4: Statistics of Sprout

Start at: 2019-06-27 20:35:41
End at: 2019-06-27 20:36:11
Local clock offset: -0.321 ms
Remote clock offset: -33.08 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 70.329 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 70.329 ms
Loss rate: 0.00%
```
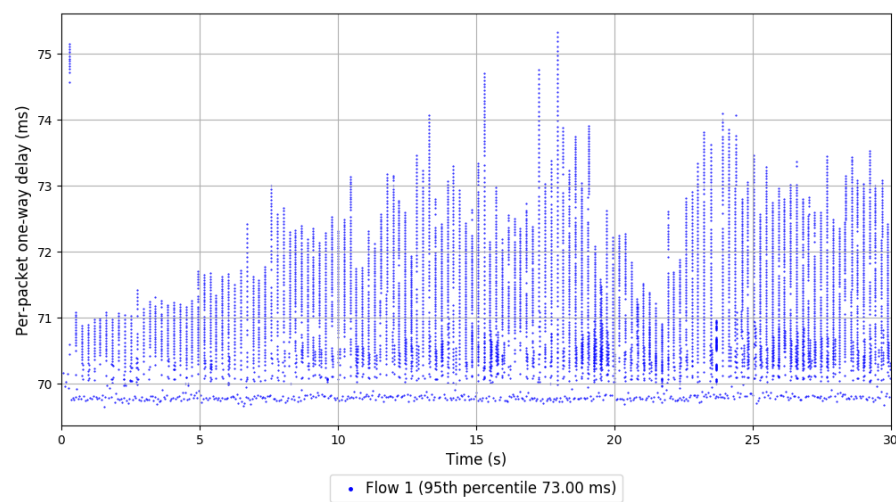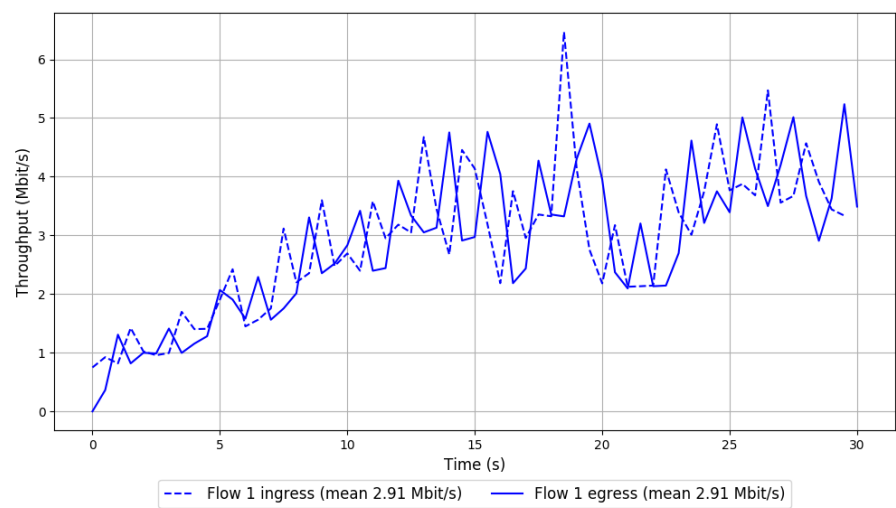
Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2019-06-27 21:04:30
End at: 2019-06-27 21:05:00
Local clock offset: -1.788 ms
Remote clock offset: -30.867 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 72.995 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 72.995 ms
Loss rate: 0.00%
```

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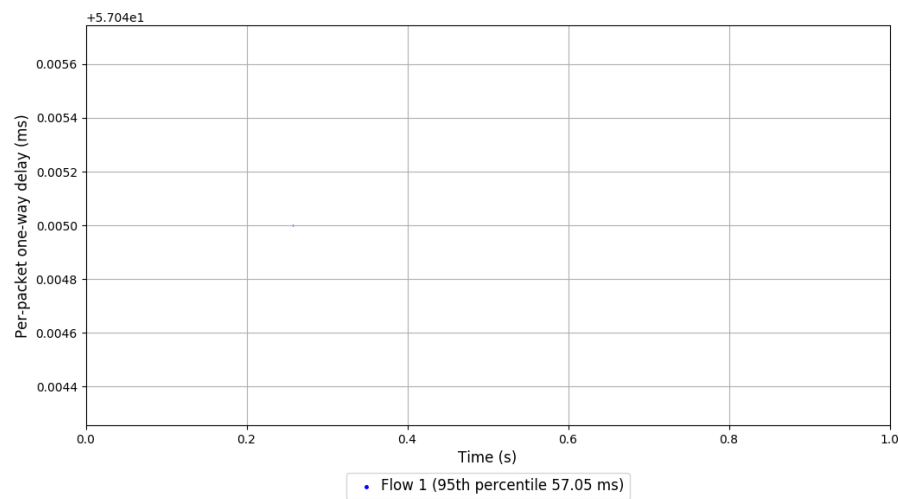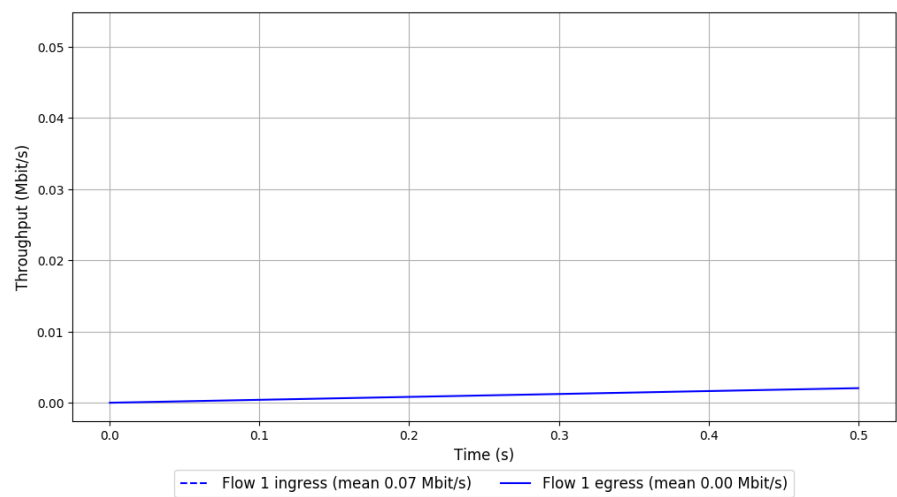
```
Run 1: Statistics of TaoVA-100x

Start at: 2019-06-27 19:24:14
End at: 2019-06-27 19:24:44
Local clock offset: -2.145 ms
Remote clock offset: -37.145 ms
```

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

Flow 1 ingress (mean 0.07 Mbit/s) --- Flow 1 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 57.05 ms)
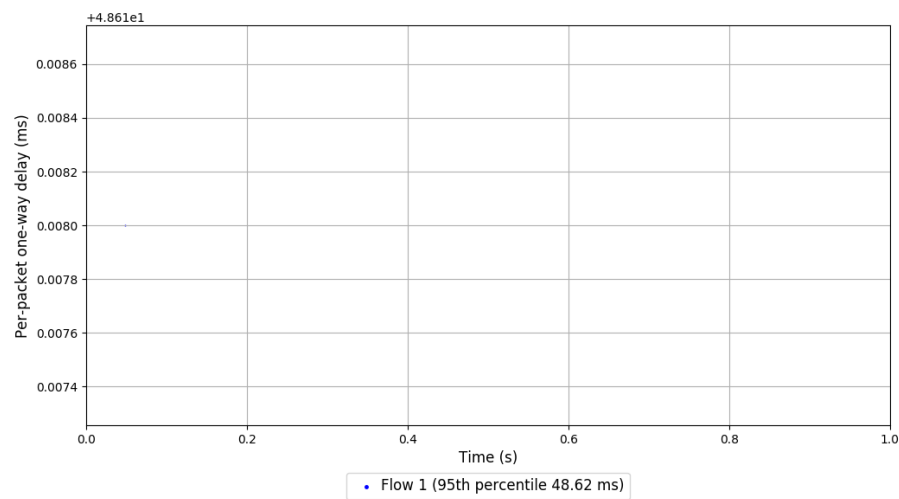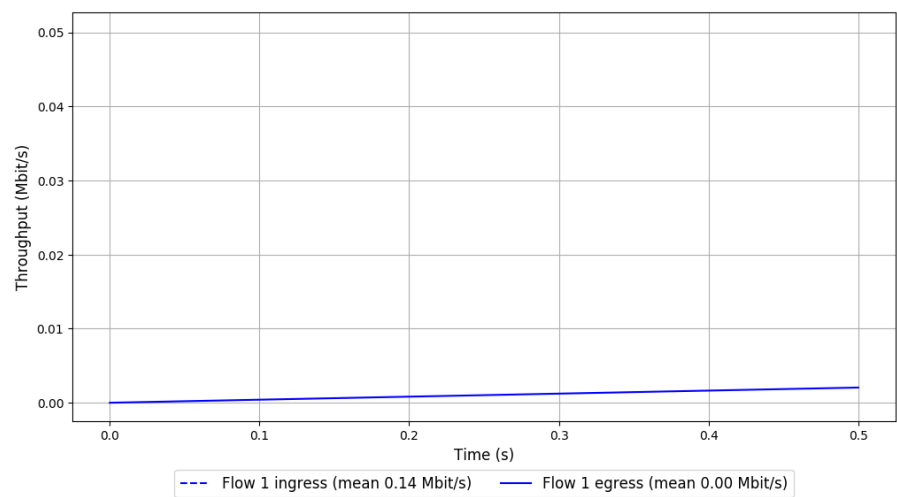
```
Run 2: Statistics of TaoVA-100x

Start at: 2019-06-27 19:52:39
End at: 2019-06-27 19:53:09
Local clock offset: -1.57 ms
Remote clock offset: -46.123 ms
```

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

Flow 1 ingress (mean 0.14 Mbit/s) --- Flow 1 egress (mean 0.00 Mbit/s)

• Flow 1 (95th percentile 48.62 ms)
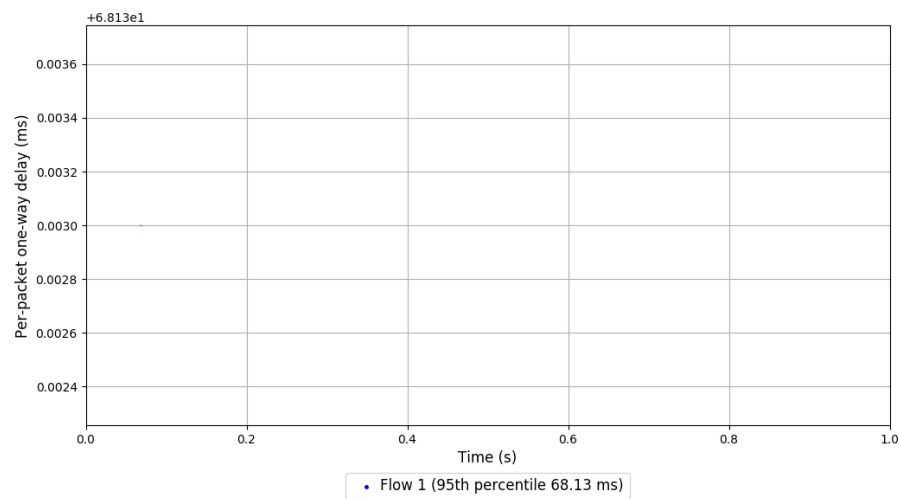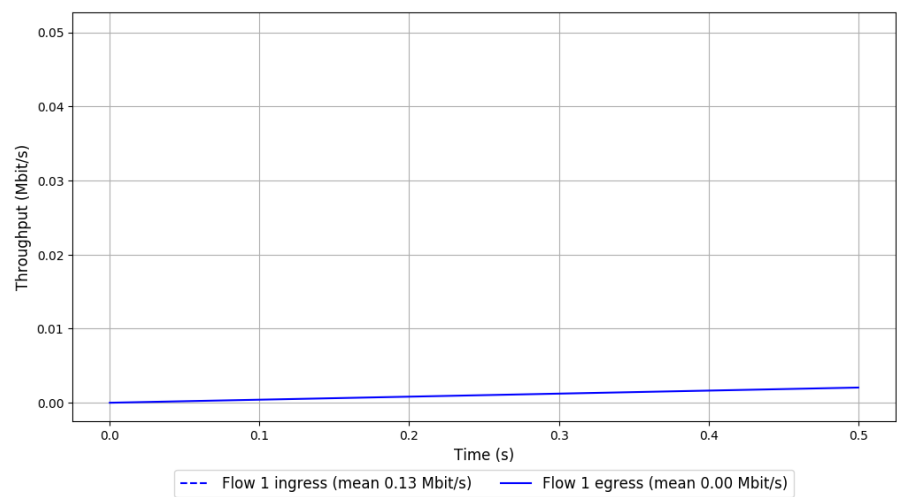
```
Run 3: Statistics of TaoVA-100x

Start at: 2019-06-27 20:21:09
End at: 2019-06-27 20:21:39
Local clock offset: -0.163 ms
Remote clock offset: -32.952 ms
```

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

Flow 1 ingress (mean 0.13 Mbit/s) --- Flow 1 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 68.13 ms)
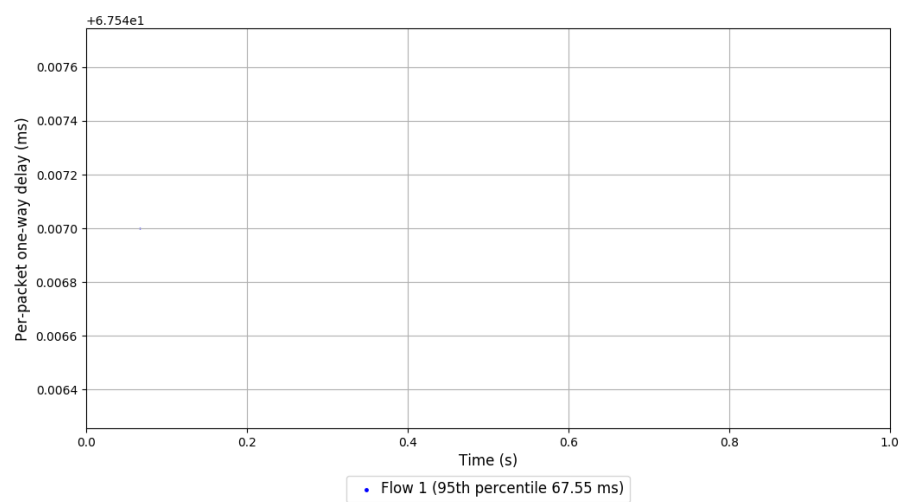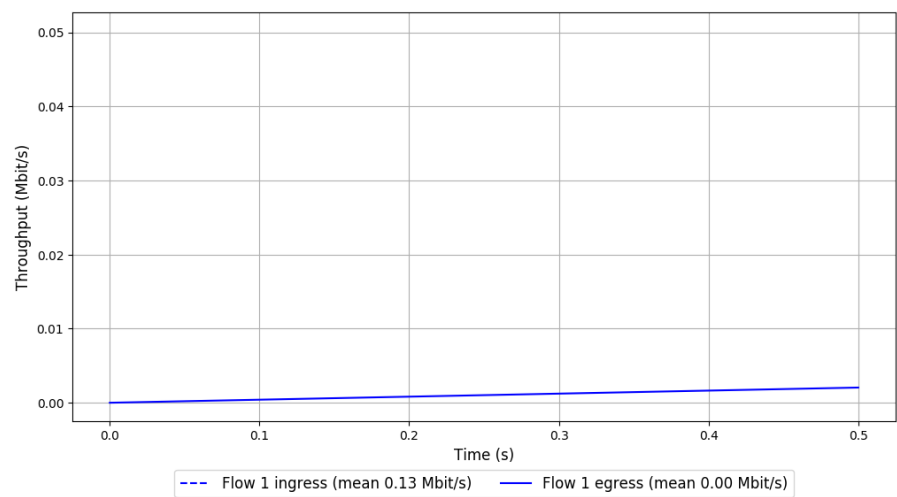
Run 4: Statistics of TaoVA-100x

Start at: 2019-06-27 20:50:02
End at: 2019-06-27 20:50:32
Local clock offset: -1.48 ms
Remote clock offset: -34.176 ms

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

Flow 1 ingress (mean 0.13 Mbit/s) --- Flow 1 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 67.55 ms)
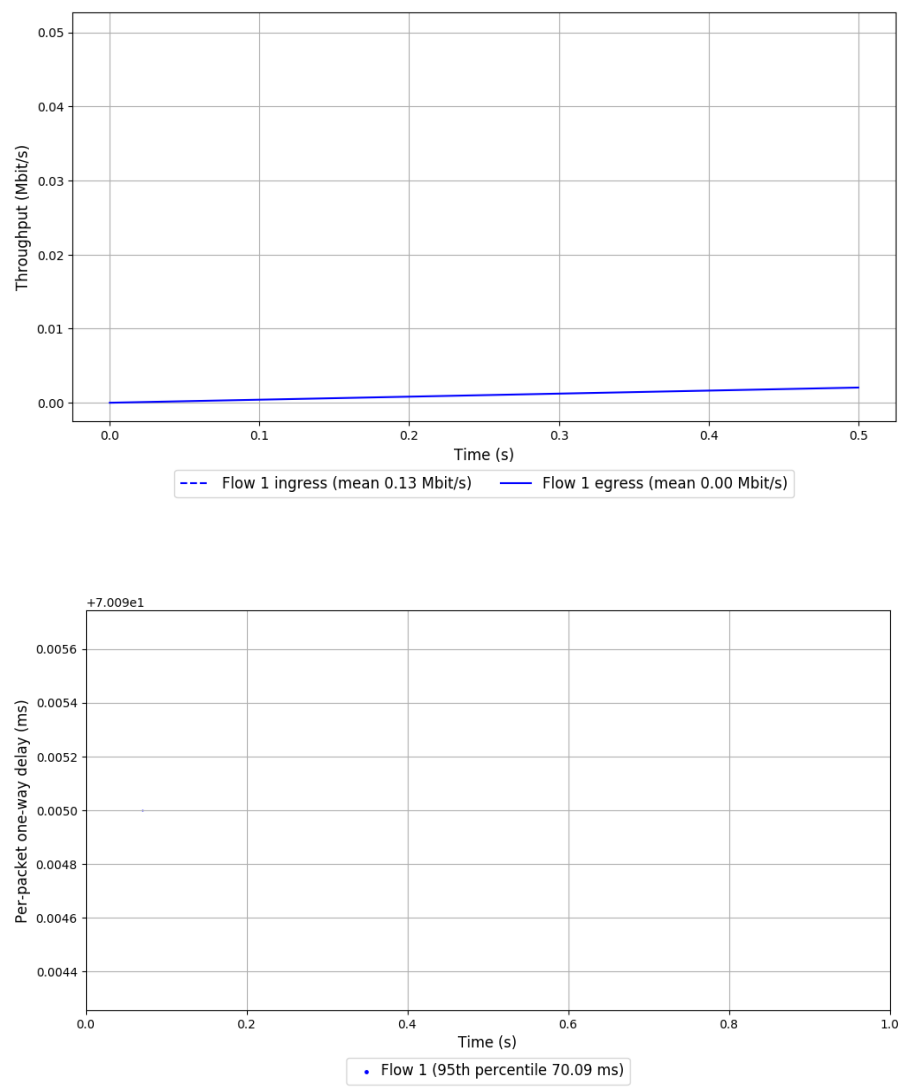
```
Run 5: Statistics of TaoVA-100x

Start at: 2019-06-27 21:18:52
End at: 2019-06-27 21:19:22
Local clock offset: -1.257 ms
Remote clock offset: -30.807 ms
```

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

Flow 1 ingress (mean 0.13 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)
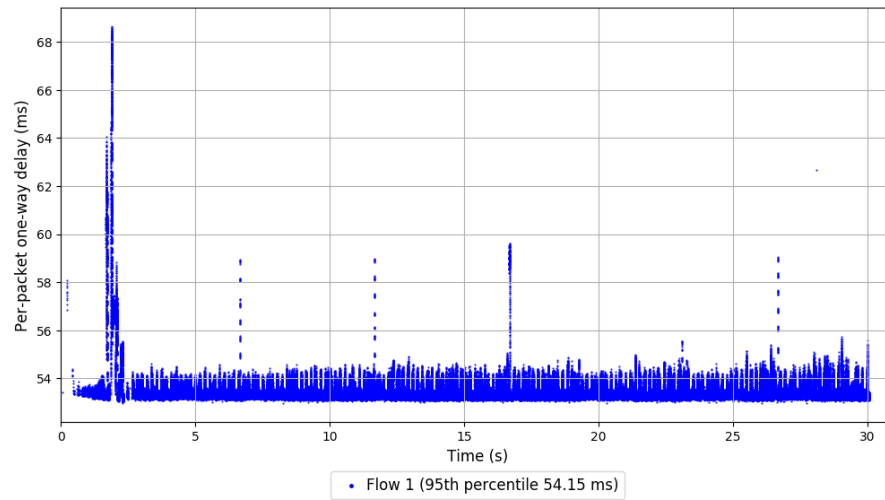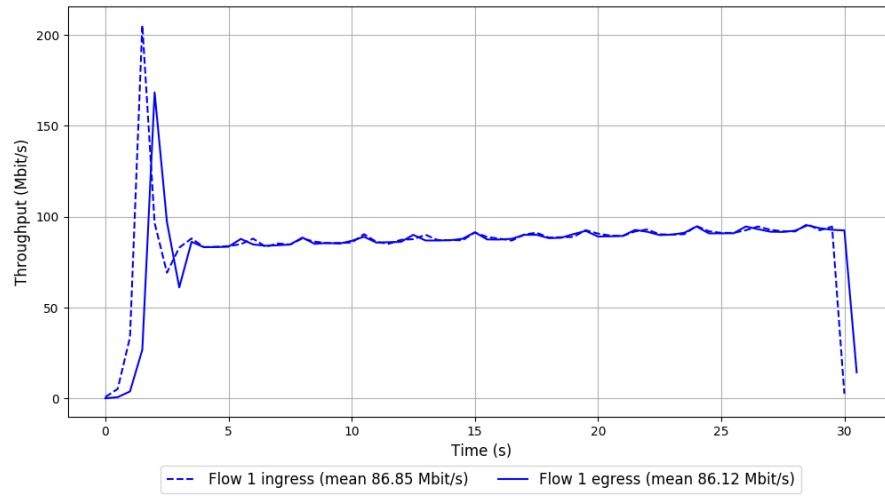

Flow 1 (95th percentile 70.09 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2019-06-27 19:07:32
End at: 2019-06-27 19:08:02
Local clock offset: -0.667 ms
Remote clock offset: -38.602 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.12 Mbit/s
95th percentile per-packet one-way delay: 54.146 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 86.12 Mbit/s
95th percentile per-packet one-way delay: 54.146 ms
Loss rate: 0.85%
```

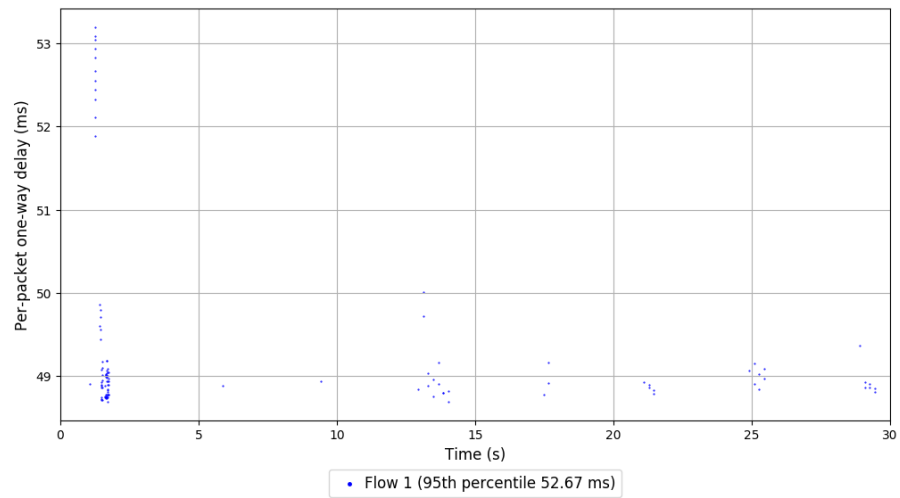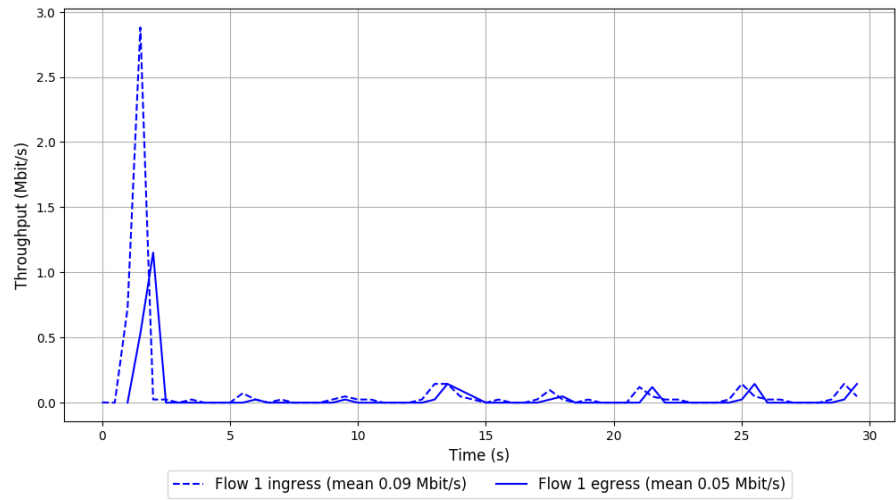Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2019-06-27 19:36:03
End at: 2019-06-27 19:36:33
Local clock offset: -0.992 ms
Remote clock offset: -44.547 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 52.666 ms
Loss rate: 50.45%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 52.666 ms
Loss rate: 50.45%
```

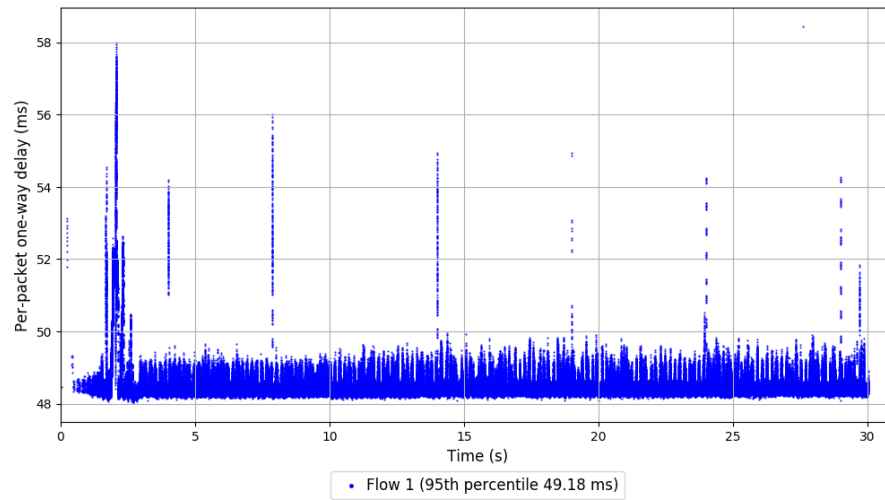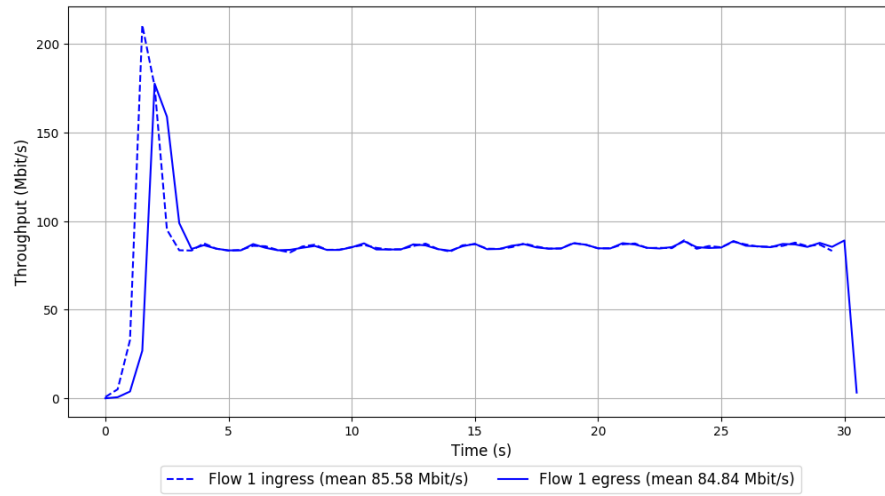Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2019-06-27 20:04:09
End at: 2019-06-27 20:04:39
Local clock offset: 0.112 ms
Remote clock offset: -44.411 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.84 Mbit/s
95th percentile per-packet one-way delay: 49.177 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 84.84 Mbit/s
95th percentile per-packet one-way delay: 49.177 ms
Loss rate: 0.87%
```

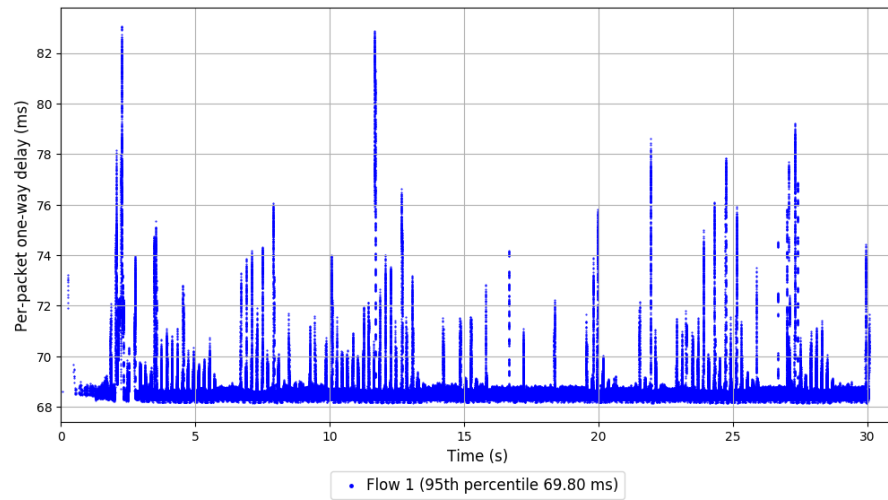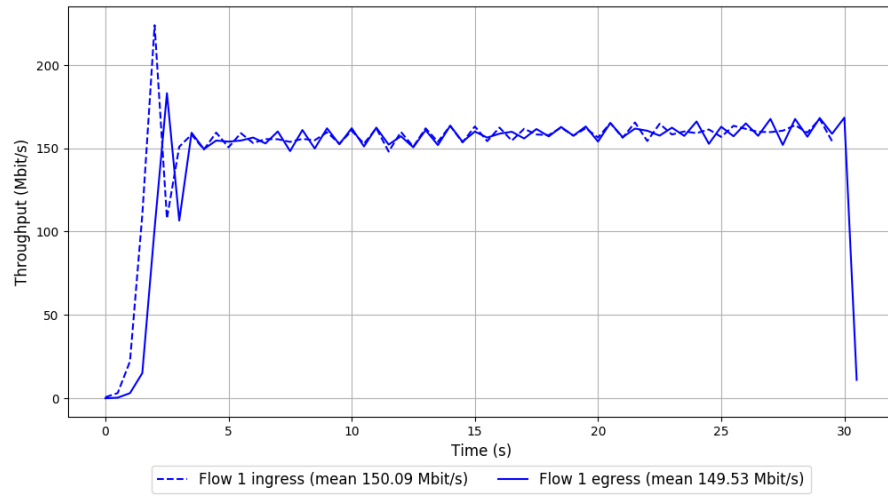Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2019-06-27 20:32:58
End at: 2019-06-27 20:33:28
Local clock offset: -1.333 ms
Remote clock offset: -32.77 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 149.53 Mbit/s
95th percentile per-packet one-way delay: 69.795 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 149.53 Mbit/s
95th percentile per-packet one-way delay: 69.795 ms
Loss rate: 0.37%
```

Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 150.09 Mbit/s) --- Flow 1 egress (mean 149.53 Mbit/s)
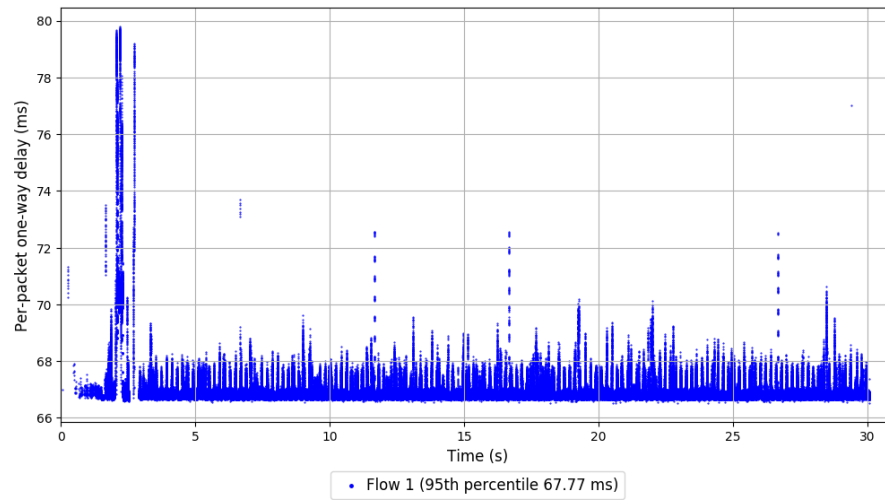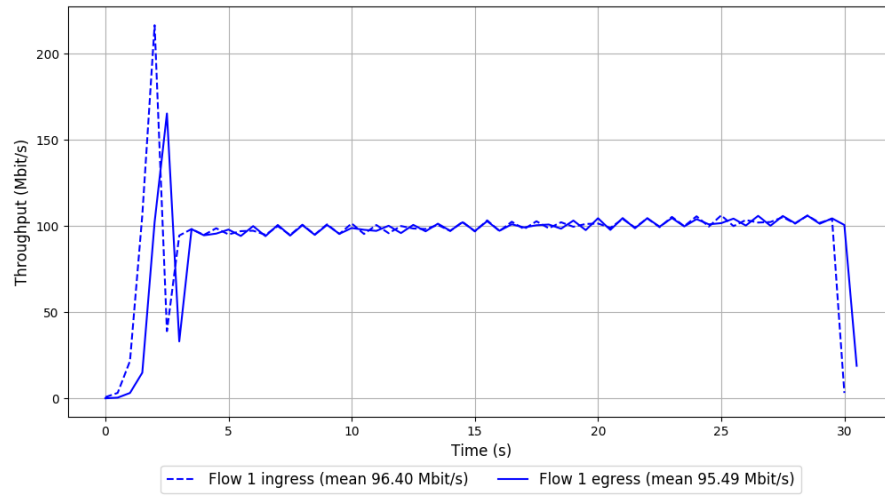

Flow 1 (95th percentile 69.80 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2019-06-27 21:01:50
End at: 2019-06-27 21:02:20
Local clock offset: -1.058 ms
Remote clock offset: -34.199 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.49 Mbit/s
95th percentile per-packet one-way delay: 67.772 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 95.49 Mbit/s
95th percentile per-packet one-way delay: 67.772 ms
Loss rate: 0.94%
```

Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 96.40 Mbit/s) --- Flow 1 egress (mean 95.49 Mbit/s)
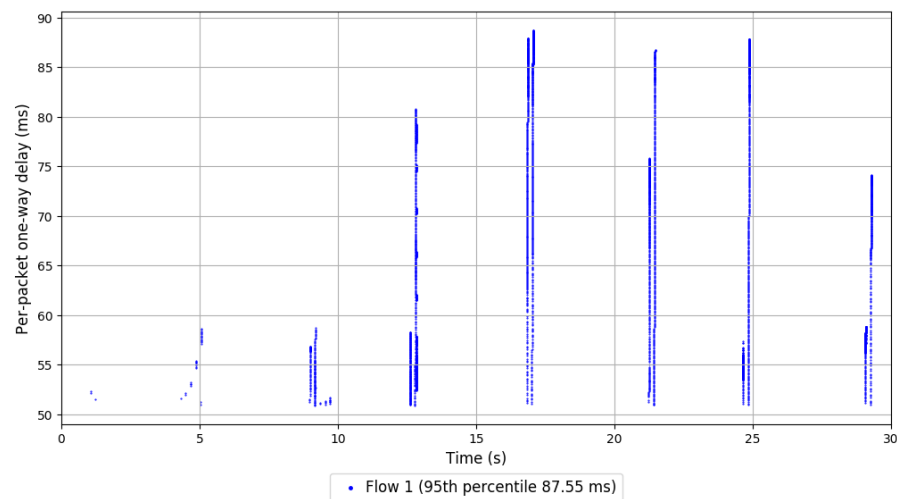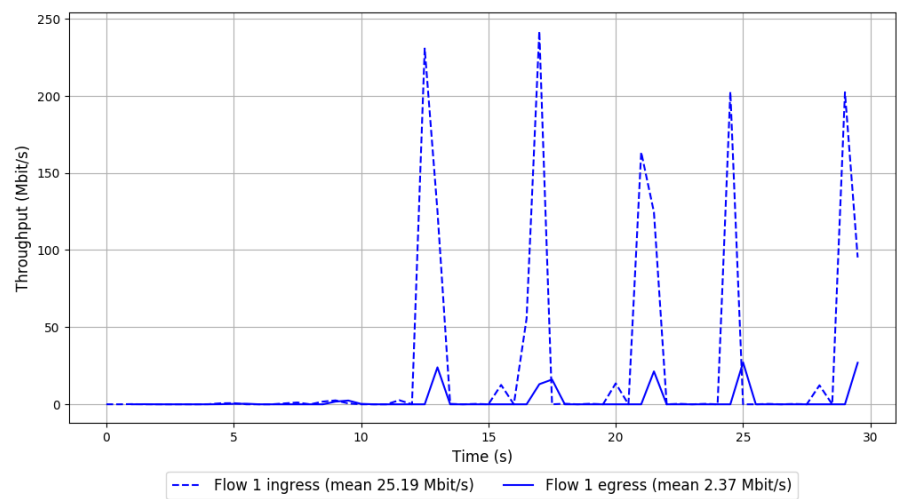

Flow 1 (95th percentile 67.77 ms)

```
Run 1: Statistics of Verus

Start at: 2019-06-27 19:13:52
End at: 2019-06-27 19:14:22
Local clock offset: -1.519 ms
Remote clock offset: -42.311 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 87.551 ms
Loss rate: 91.04%
-- Flow 1:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 87.551 ms
Loss rate: 91.04%
```
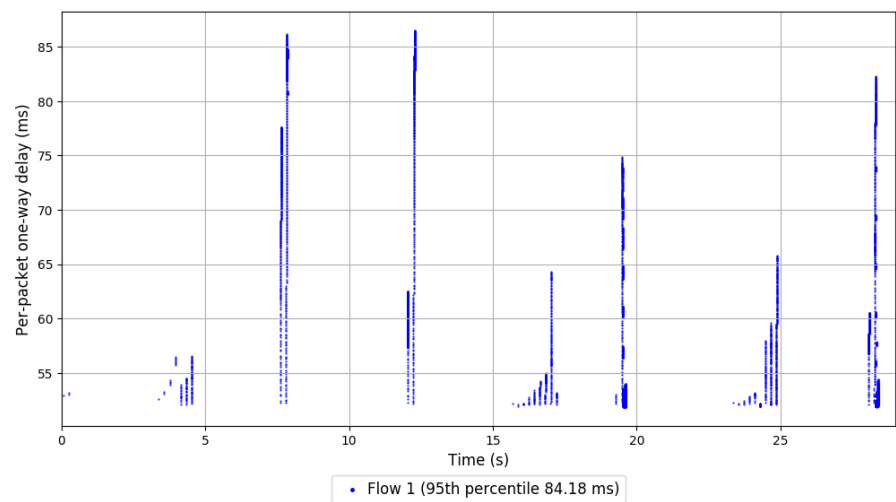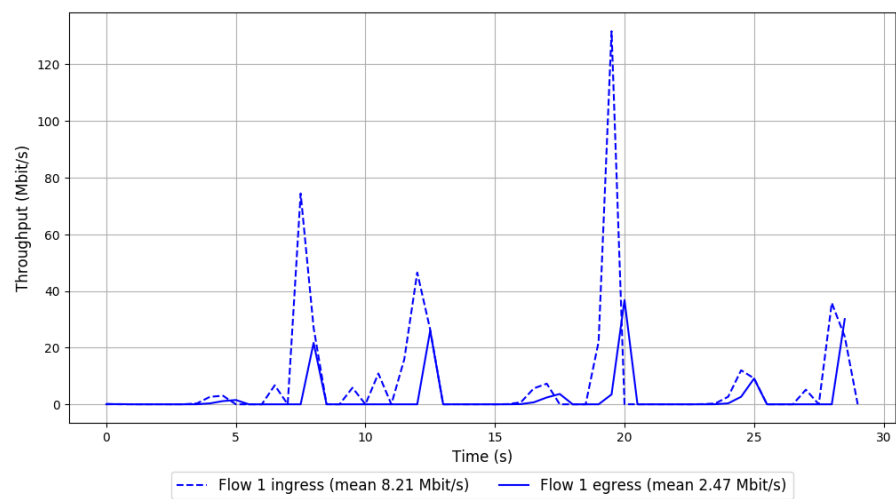
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2019-06-27 19:42:15
End at: 2019-06-27 19:42:45
Local clock offset: -1.84 ms
Remote clock offset: -41.973 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 84.176 ms
Loss rate: 70.61%
-- Flow 1:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 84.176 ms
Loss rate: 70.61%
```
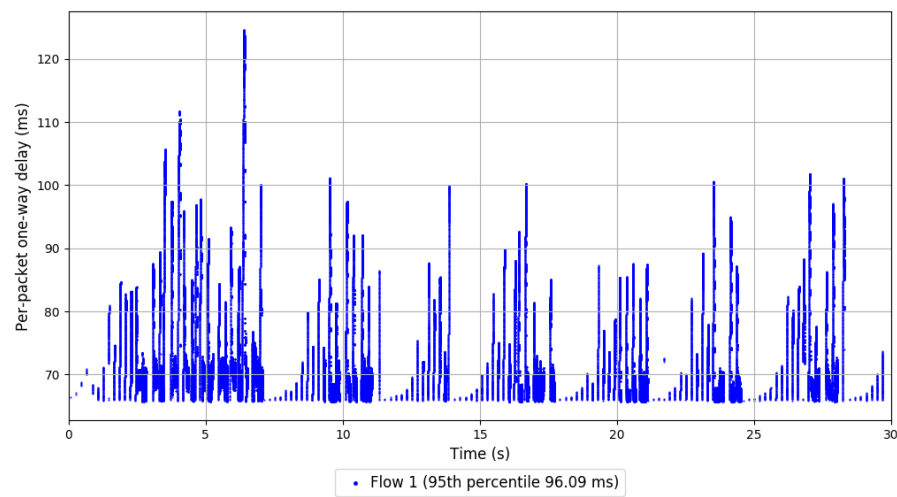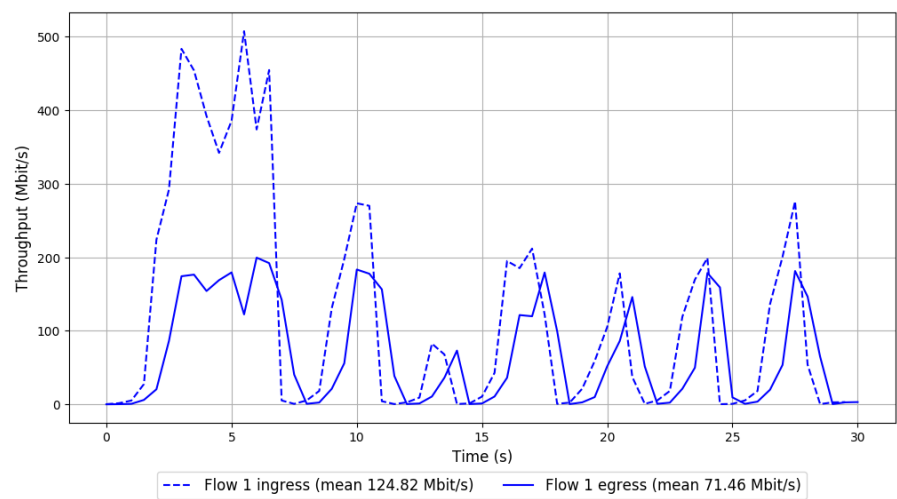
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2019-06-27 20:10:29
End at: 2019-06-27 20:10:59
Local clock offset: 0.332 ms
Remote clock offset: -34.679 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.46 Mbit/s
95th percentile per-packet one-way delay: 96.091 ms
Loss rate: 42.74%
-- Flow 1:
Average throughput: 71.46 Mbit/s
95th percentile per-packet one-way delay: 96.091 ms
Loss rate: 42.74%
```

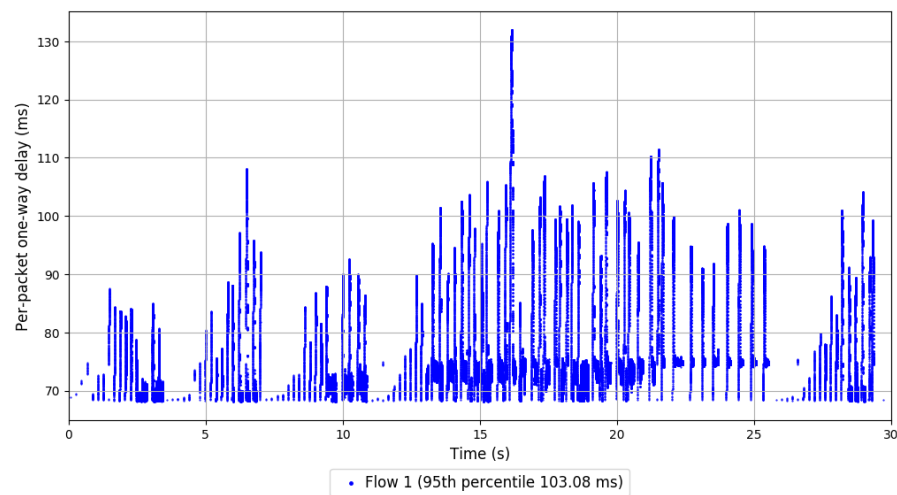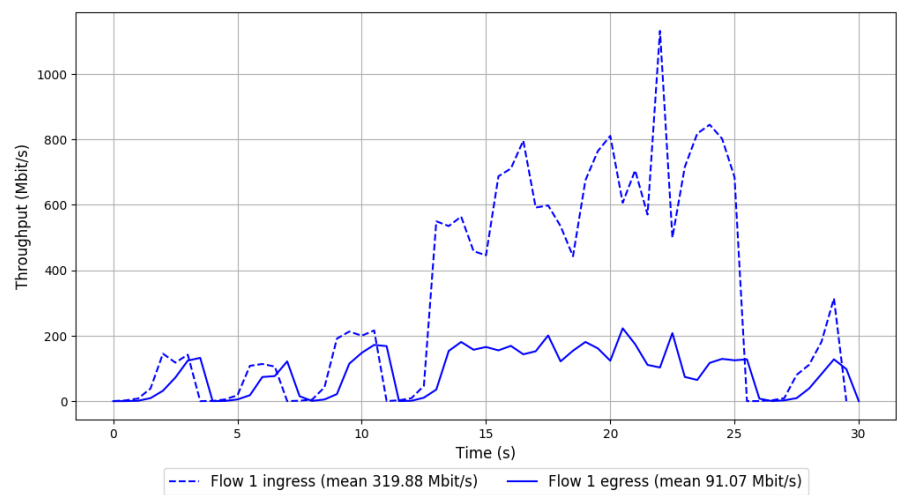## Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2019-06-27 20:39:20
End at: 2019-06-27 20:39:50
Local clock offset: -0.72 ms
Remote clock offset: -32.73 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.07 Mbit/s
95th percentile per-packet one-way delay: 103.075 ms
Loss rate: 71.53%
-- Flow 1:
Average throughput: 91.07 Mbit/s
95th percentile per-packet one-way delay: 103.075 ms
Loss rate: 71.53%
```

Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 319.88 Mbit/s)   Flow 1 egress (mean 91.07 Mbit/s)

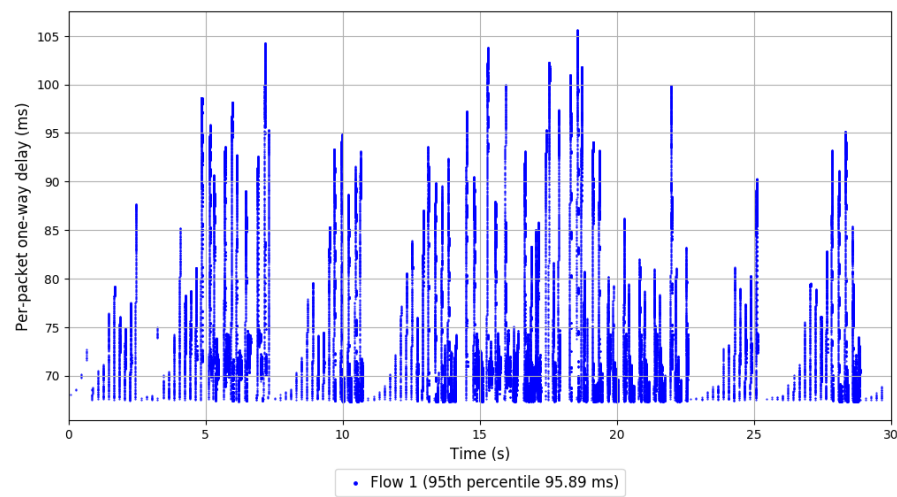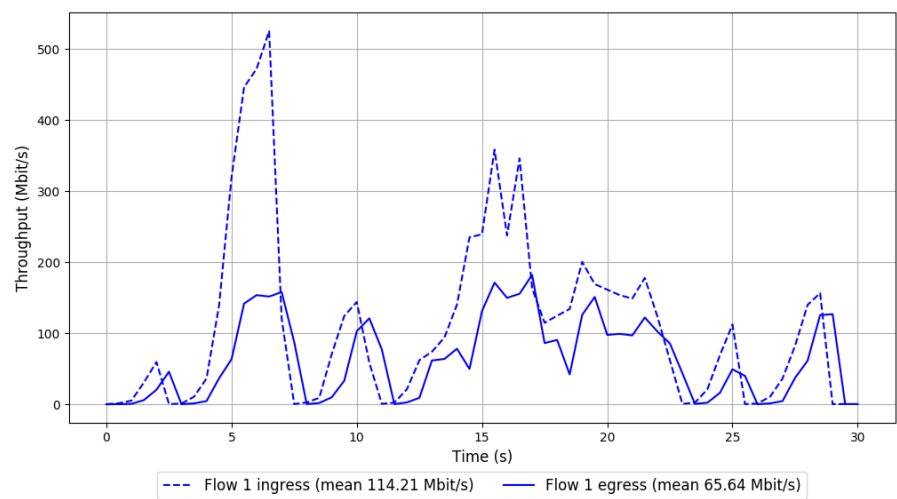
• Flow 1 (95th percentile 103.08 ms)

```
Run 5: Statistics of Verus

Start at: 2019-06-27 21:08:14
End at: 2019-06-27 21:08:44
Local clock offset: -1.077 ms
Remote clock offset: -33.251 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.64 Mbit/s
95th percentile per-packet one-way delay: 95.894 ms
Loss rate: 42.52%
-- Flow 1:
Average throughput: 65.64 Mbit/s
95th percentile per-packet one-way delay: 95.894 ms
Loss rate: 42.52%
```

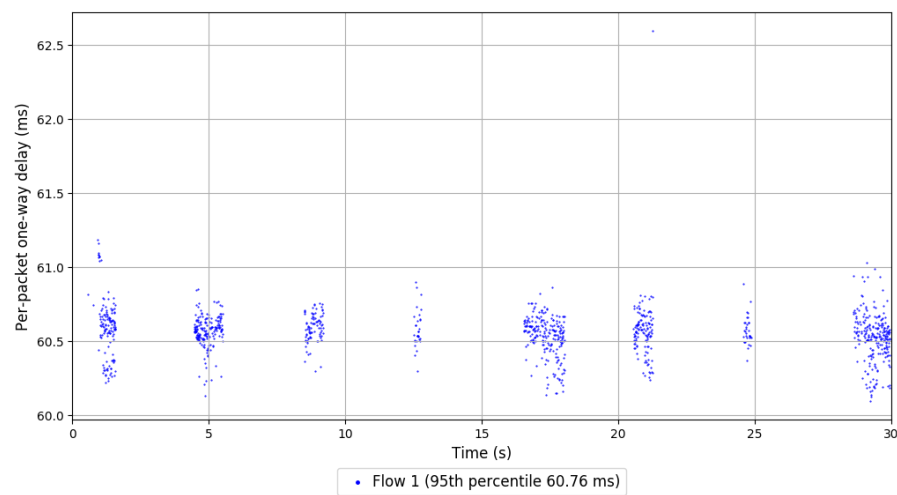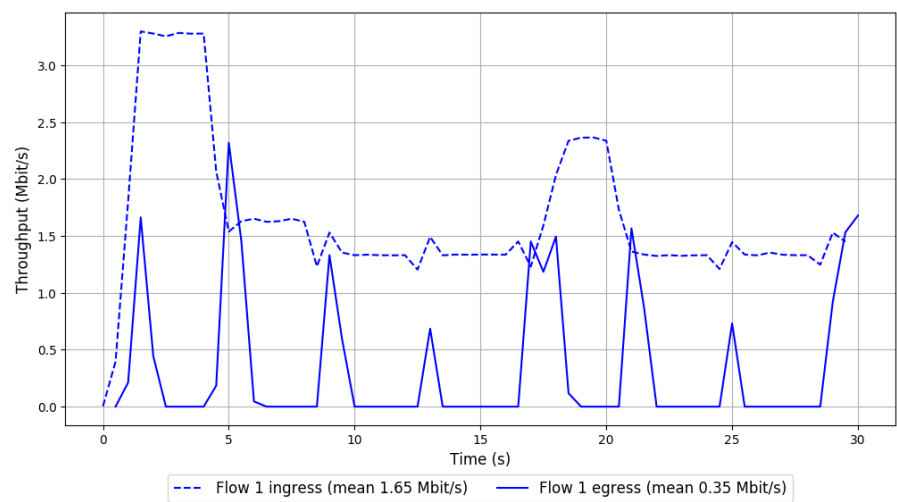## Run 5: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2019-06-27 19:25:30
End at: 2019-06-27 19:26:00
Local clock offset: -1.039 ms
Remote clock offset: -32.268 ms


# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 60.757 ms
Loss rate: 79.20%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 60.757 ms
Loss rate: 79.20%
```

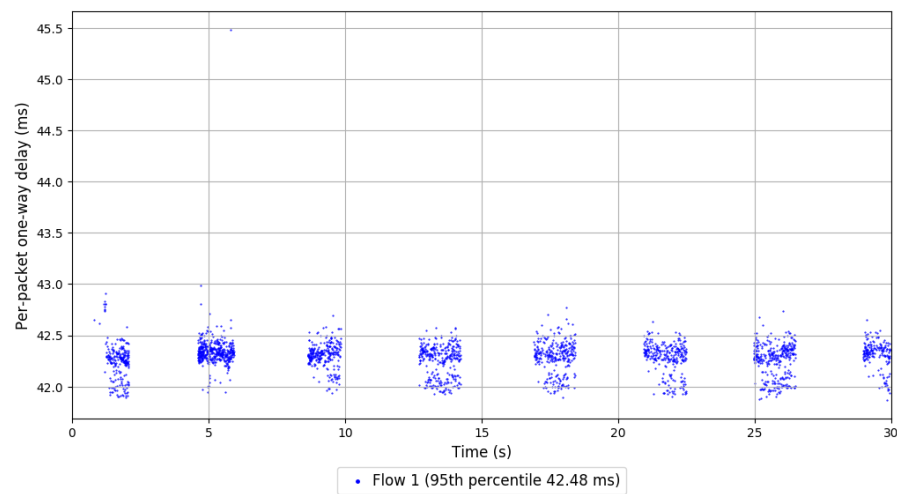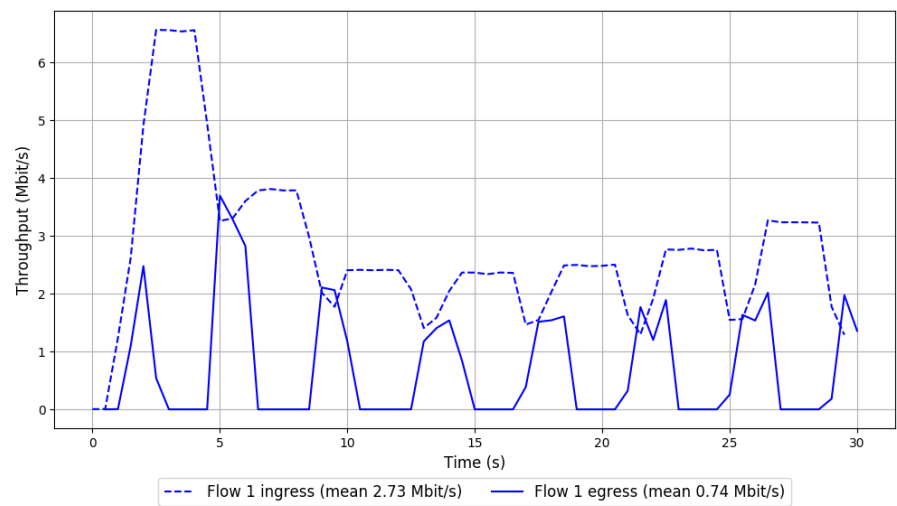Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2019-06-27 19:53:50
End at: 2019-06-27 19:54:20
Local clock offset: 1.111 ms
Remote clock offset: -47.963 ms

# Below is generated by plot.py at 2019-06-27 21:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 42.481 ms
Loss rate: 73.47%
-- Flow 1:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 42.481 ms
Loss rate: 73.47%
```

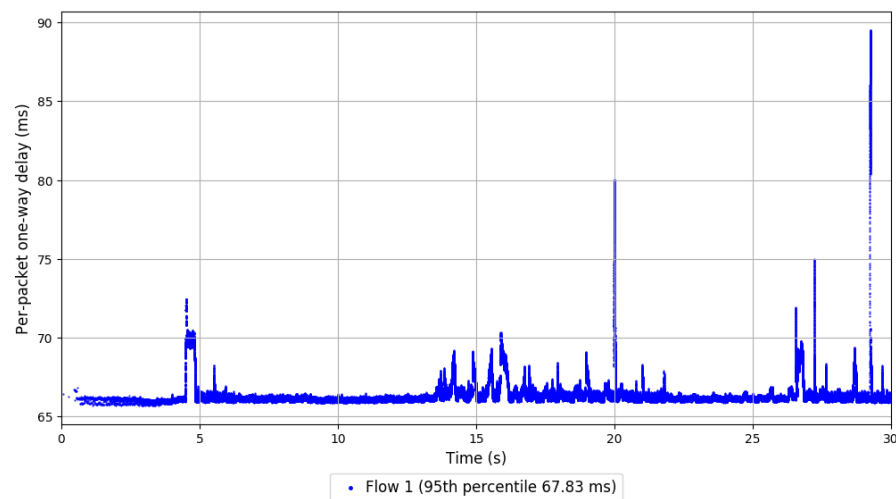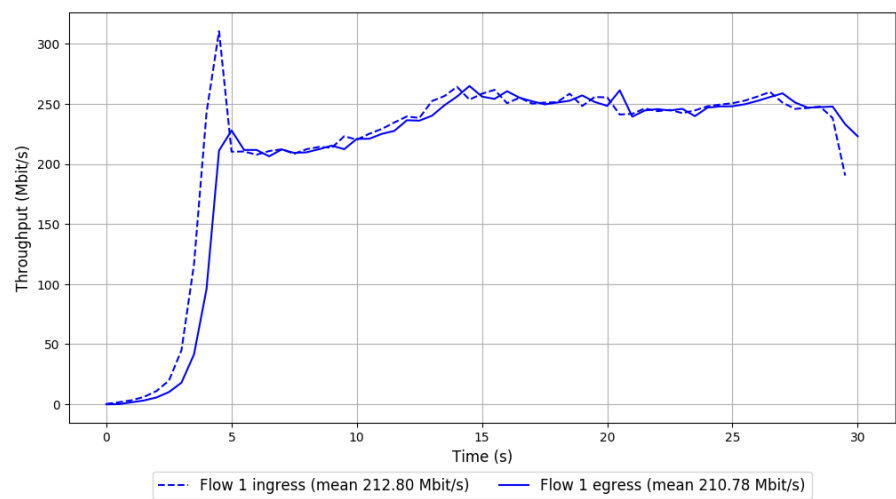Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2019-06-27 20:22:19
End at: 2019-06-27 20:22:49
Local clock offset: -0.449 ms
Remote clock offset: -35.044 ms

# Below is generated by plot.py at 2019-06-27 21:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.78 Mbit/s
95th percentile per-packet one-way delay: 67.834 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 210.78 Mbit/s
95th percentile per-packet one-way delay: 67.834 ms
Loss rate: 0.95%
```

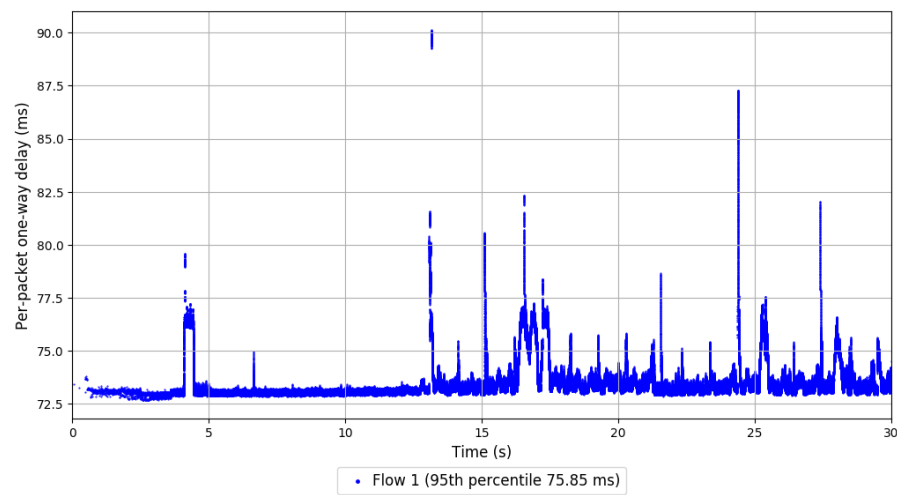## Run 3: Report of PCC-Vivace — Data Link

```
Run 4: Statistics of PCC-Vivace

Start at: 2019-06-27 20:51:11
End at: 2019-06-27 20:51:41
Local clock offset: -1.425 ms
Remote clock offset: -27.941 ms


# Below is generated by plot.py at 2019-06-27 21:54:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.70 Mbit/s
95th percentile per-packet one-way delay: 75.848 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 211.70 Mbit/s
95th percentile per-packet one-way delay: 75.848 ms
Loss rate: 1.04%
```
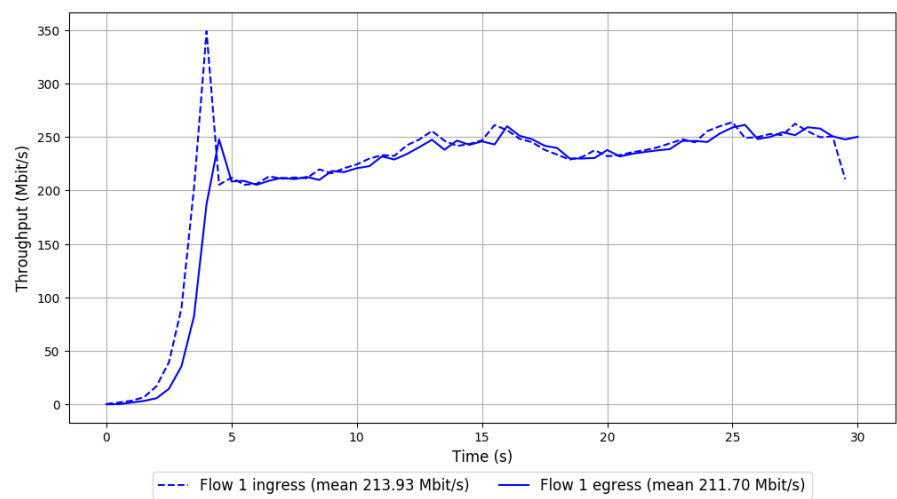
Run 4: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 213.93 Mbit/s)   Flow 1 egress (mean 211.70 Mbit/s)
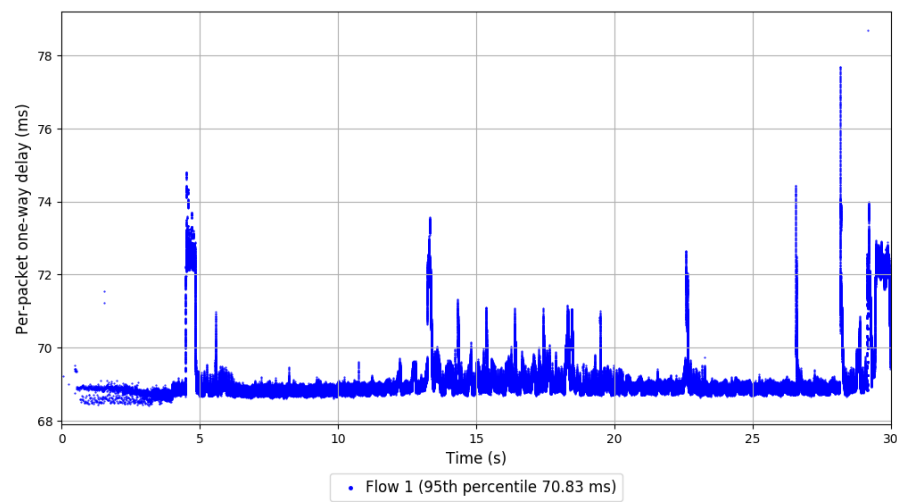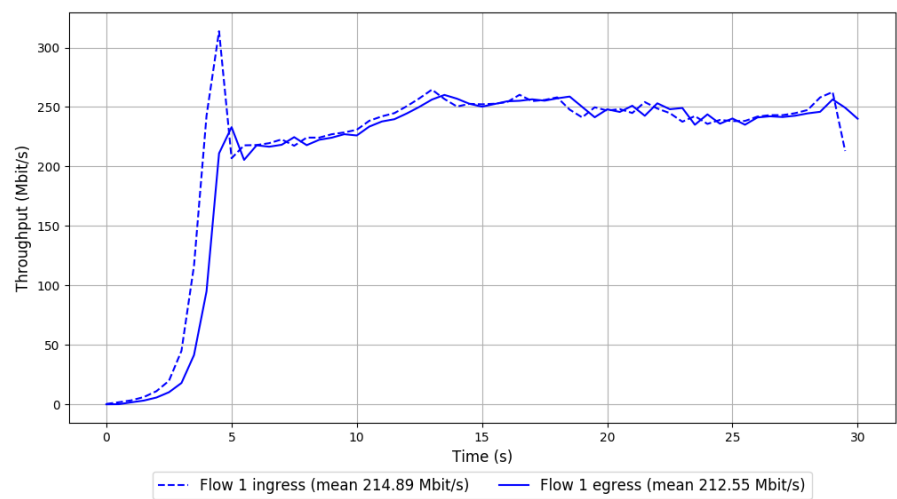

Flow 1 (95th percentile 75.85 ms)

```
Run 5: Statistics of PCC-Vivace

Start at: 2019-06-27 21:20:02
End at: 2019-06-27 21:20:32
Local clock offset: -1.479 ms
Remote clock offset: -32.503 ms


# Below is generated by plot.py at 2019-06-27 21:54:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.55 Mbit/s
95th percentile per-packet one-way delay: 70.829 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 212.55 Mbit/s
95th percentile per-packet one-way delay: 70.829 ms
Loss rate: 1.09%
```

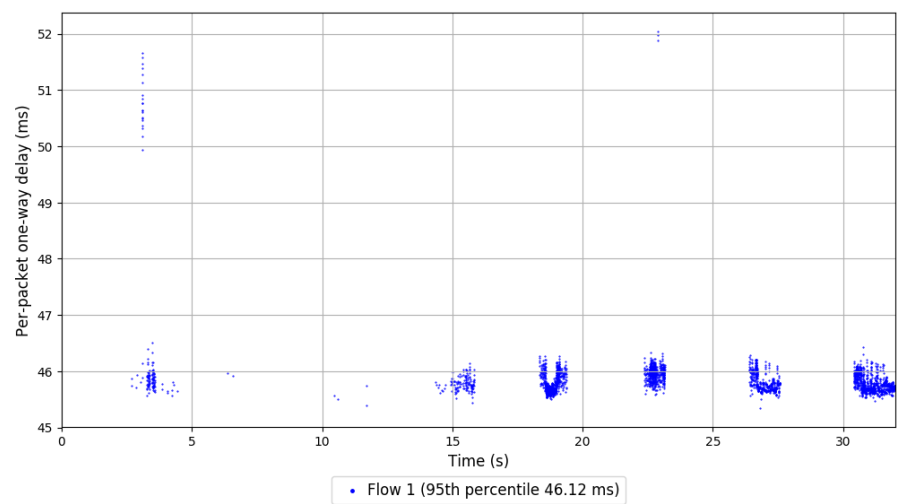## Run 5: Report of PCC-Vivace — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2019-06-27 19:32:25
End at: 2019-06-27 19:32:55
Local clock offset: -0.284 ms
Remote clock offset: -46.902 ms


# Below is generated by plot.py at 2019-06-27 21:54:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 46.118 ms
Loss rate: 58.82%
-- Flow 1:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 46.118 ms
Loss rate: 58.82%
```

Run 1: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.87 Mbit/s)　　Flow 1 egress (mean 0.84 Mbit/s)
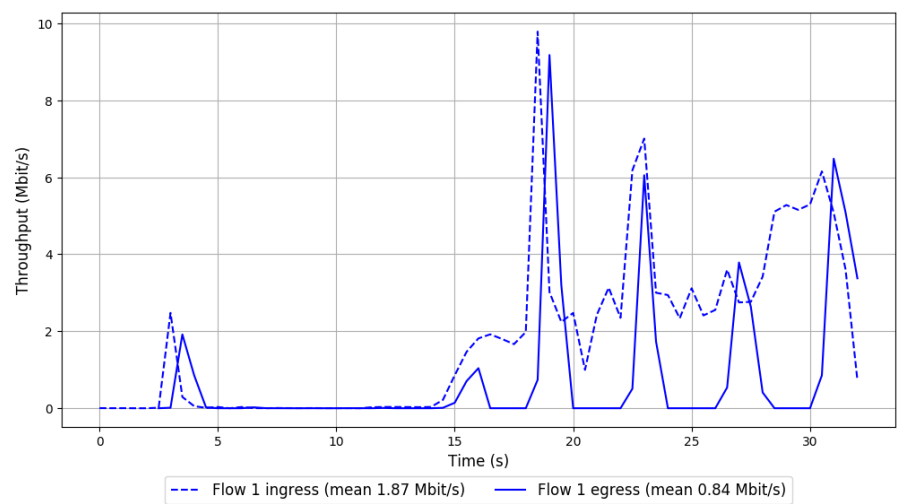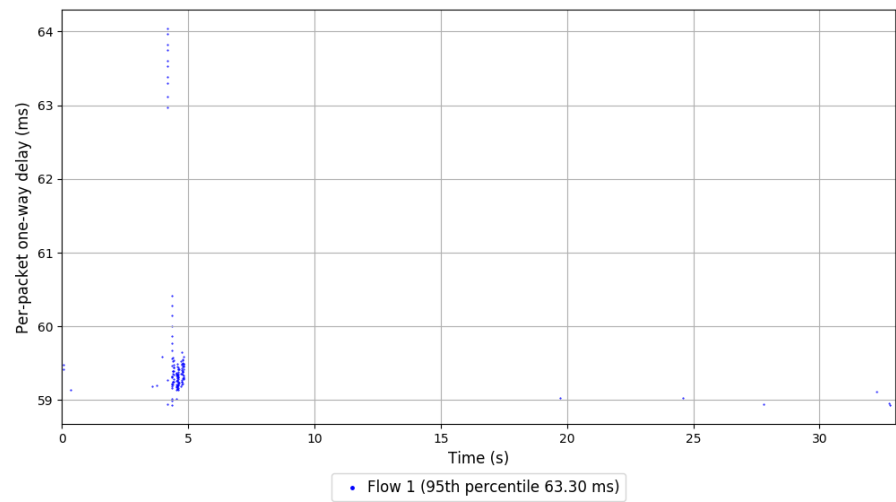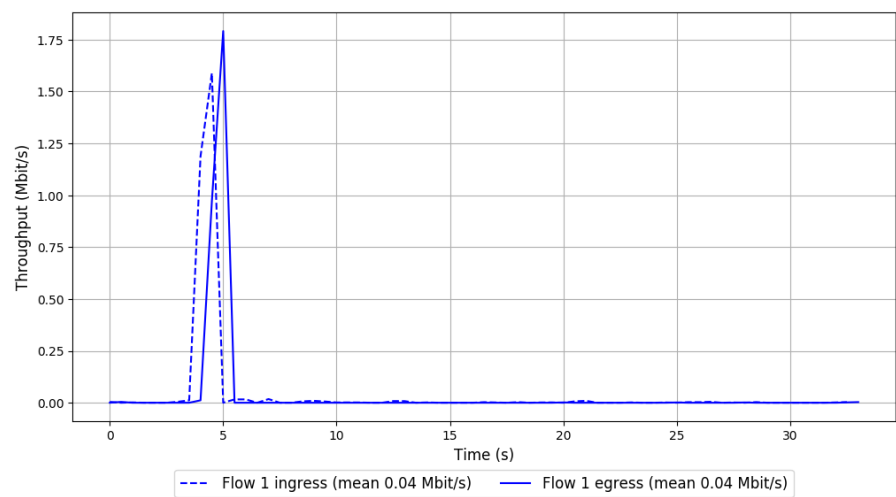

Flow 1 (95th percentile 46.12 ms)

```
Run 2: Statistics of WebRTC media

Start at: 2019-06-27 20:00:38
End at: 2019-06-27 20:01:08
Local clock offset: -0.949 ms
Remote clock offset: -34.754 ms


# Below is generated by plot.py at 2019-06-27 21:54:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 63.299 ms
Loss rate: 5.23%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 63.299 ms
Loss rate: 5.23%
```

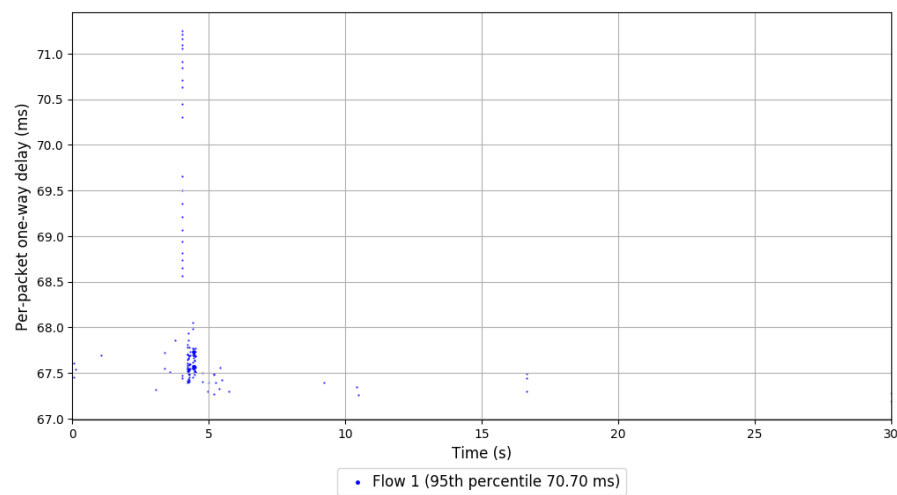Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2019-06-27 20:29:16
End at: 2019-06-27 20:29:46
Local clock offset: -0.259 ms
Remote clock offset: -33.139 ms


# Below is generated by plot.py at 2019-06-27 21:54:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 70.705 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 70.705 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

Flow 1 ingress (mean 0.05 Mbit/s)   Flow 1 egress (mean 0.05 Mbit/s)
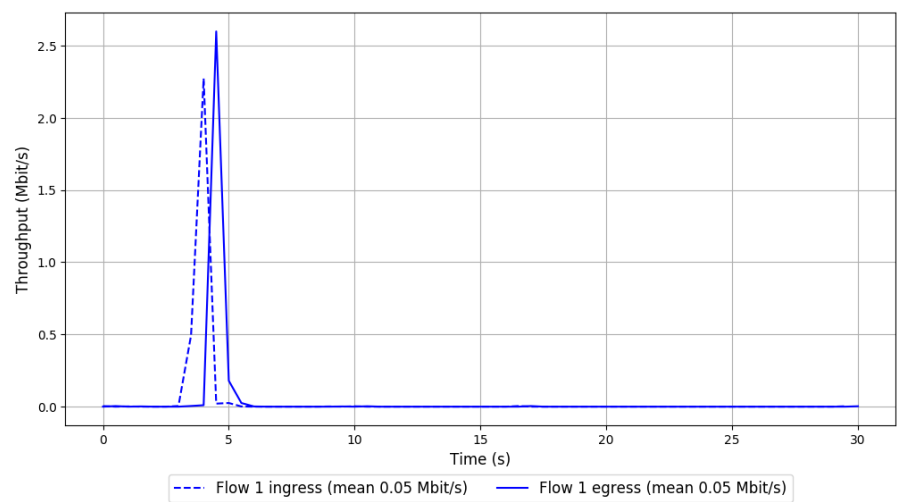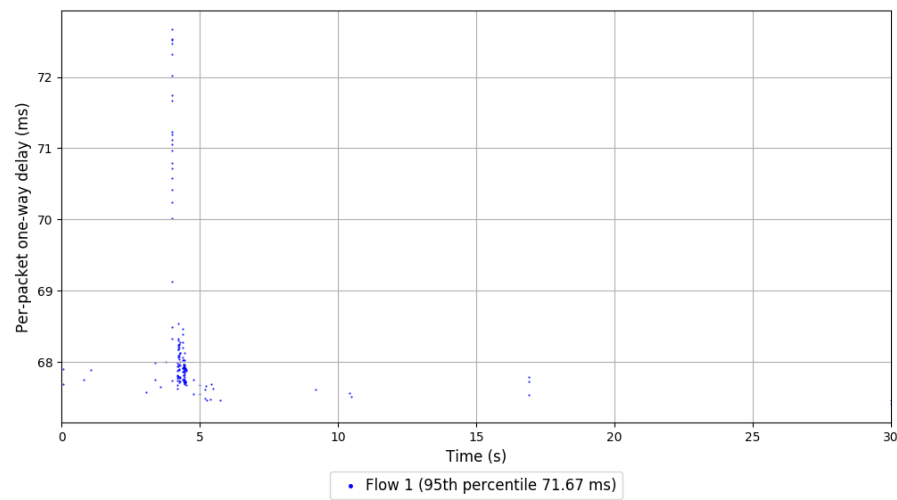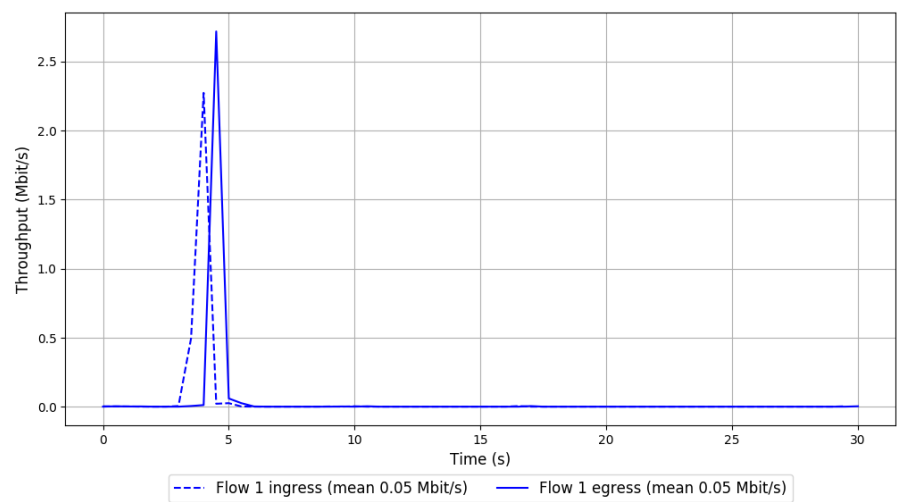

Flow 1 (95th percentile 70.70 ms)

```
Run 4: Statistics of WebRTC media

Start at: 2019-06-27 20:58:09
End at: 2019-06-27 20:58:39
Local clock offset: -0.813 ms
Remote clock offset: -32.739 ms

# Below is generated by plot.py at 2019-06-27 21:54:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 71.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 71.668 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

Flow 1 ingress (mean 0.05 Mbit/s)   Flow 1 egress (mean 0.05 Mbit/s)

Flow 1 (95th percentile 71.67 ms)

```
Run 5: Statistics of WebRTC media

Start at: 2019-06-27 21:27:00
End at: 2019-06-27 21:27:30
Local clock offset: -1.311 ms
Remote clock offset: -38.677 ms


# Below is generated by plot.py at 2019-06-27 21:54:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.134 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.134 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

Flow 1 ingress (mean 0.05 Mbit/s)   Flow 1 egress (mean 0.05 Mbit/s)

Flow 1 (95th percentile 66.13 ms)