Pantheon Report

Generated at 2019-03-26 23:08:31 (UTC).

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

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.
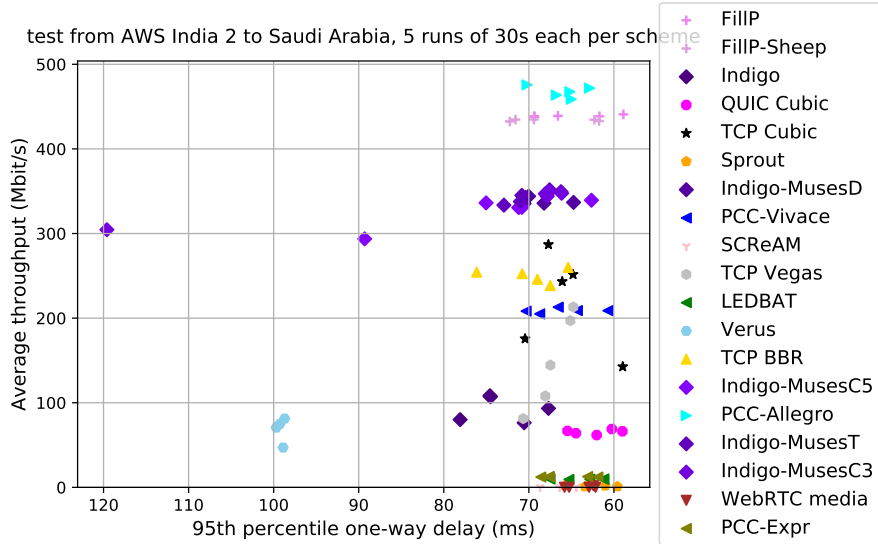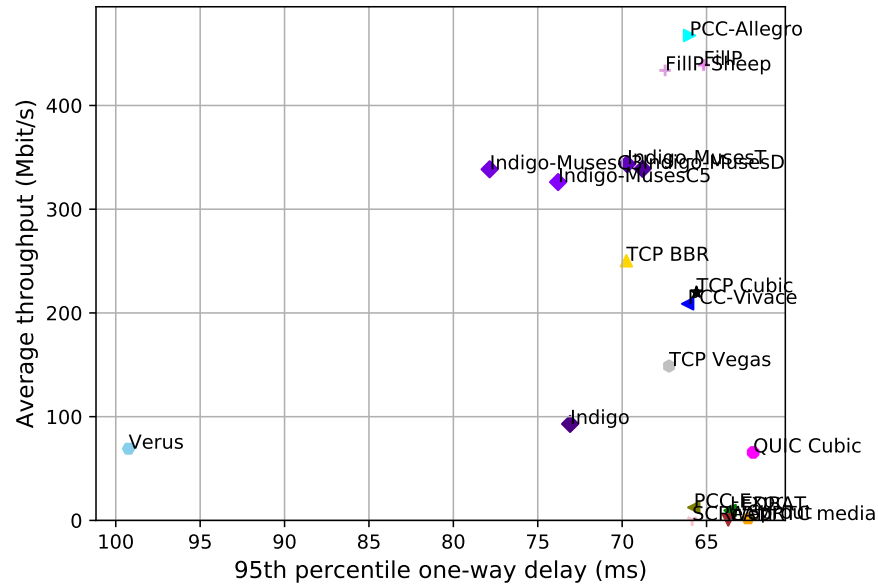
```
System info:
Linux 4.15.0-1034-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
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/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

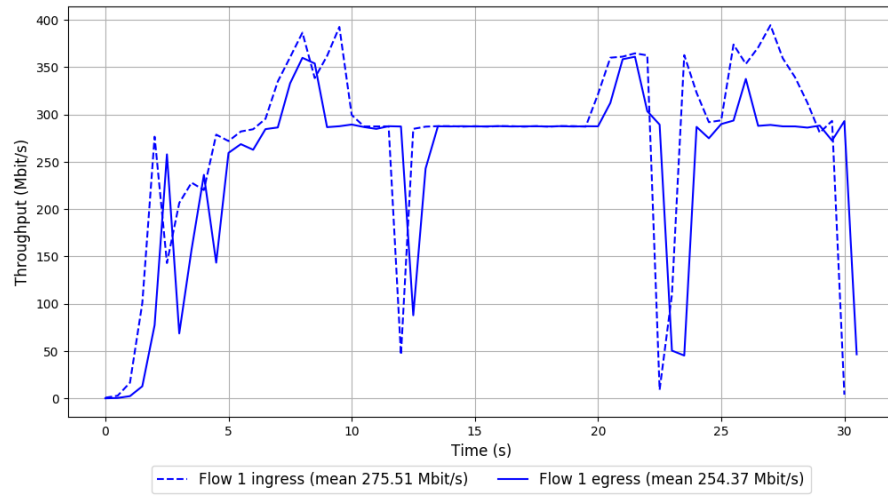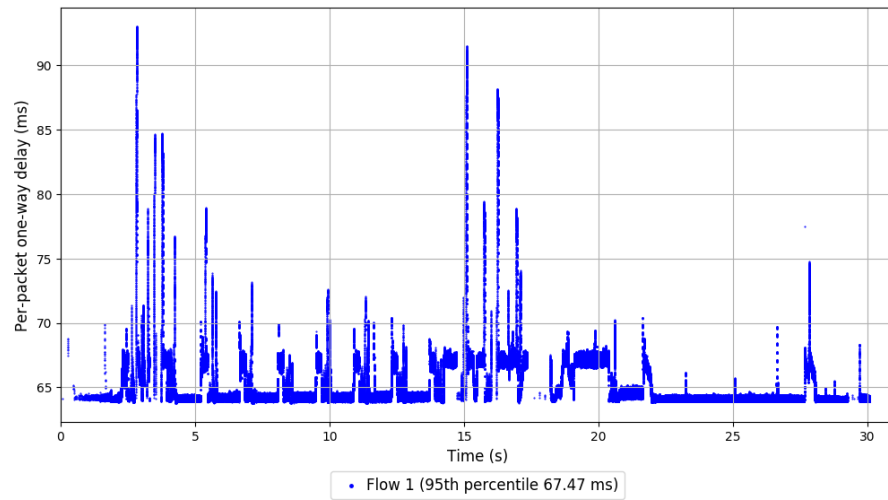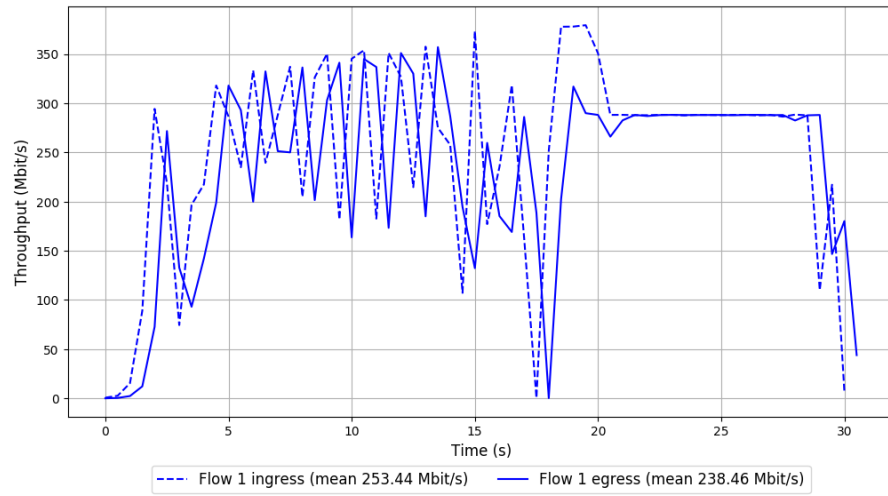| scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	250.26	69.75	6.15
Copa	0	N/A	N/A	N/A
TCP Cubic	5	220.00	65.60	0.75
FillP	5	439.00	65.17	5.68
FillP-Sheep	5	433.83	67.45	5.08
Indigo	5	93.02	73.08	0.16
Indigo-MusesC3	5	338.48	77.85	13.30
Indigo-MusesC5	5	326.17	73.79	26.40
Indigo-MusesD	5	338.92	68.79	13.01
Indigo-MusesT	5	343.48	69.71	10.51
LEDBAT	5	9.59	63.61	0.00
PCC-Allegro	5	467.45	66.00	3.28
PCC-Expr	5	12.46	65.76	32.12
QUIC Cubic	5	65.52	62.24	0.00
SCReAM	5	0.22	65.85	0.00
Sprout	5	1.69	62.54	0.00
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	148.77	67.22	0.51
Verus	5	69.13	99.24	56.67
PCC-Vivace	5	208.80	66.12	0.83
WebRTC media	5	0.42	63.71	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2019-03-26 20:24:34
End at: 2019-03-26 20:25:04
Local clock offset: 1.455 ms
Remote clock offset: -26.468 ms

# Below is generated by plot.py at 2019-03-26 22:41:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.37 Mbit/s
95th percentile per-packet one-way delay: 76.131 ms
Loss rate: 7.67%
-- Flow 1:
Average throughput: 254.37 Mbit/s
95th percentile per-packet one-way delay: 76.131 ms
Loss rate: 7.67%
```
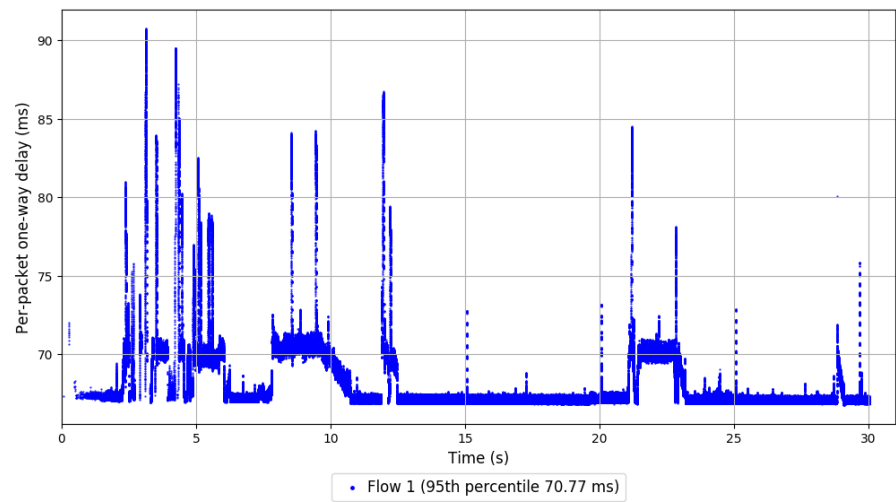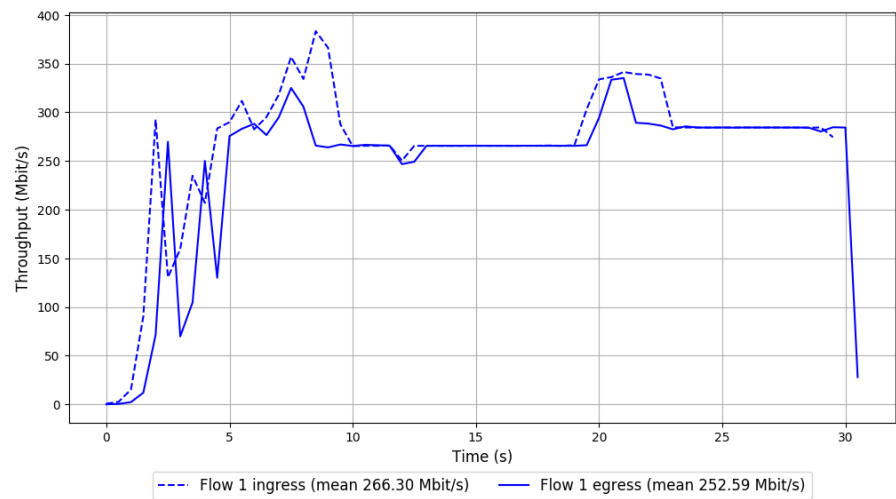
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2019-03-26 20:52:05
End at: 2019-03-26 20:52:35
Local clock offset: 0.738 ms
Remote clock offset: -36.217 ms


# Below is generated by plot.py at 2019-03-26 22:41:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.46 Mbit/s
95th percentile per-packet one-way delay: 67.474 ms
Loss rate: 5.91%
-- Flow 1:
Average throughput: 238.46 Mbit/s
95th percentile per-packet one-way delay: 67.474 ms
Loss rate: 5.91%
```
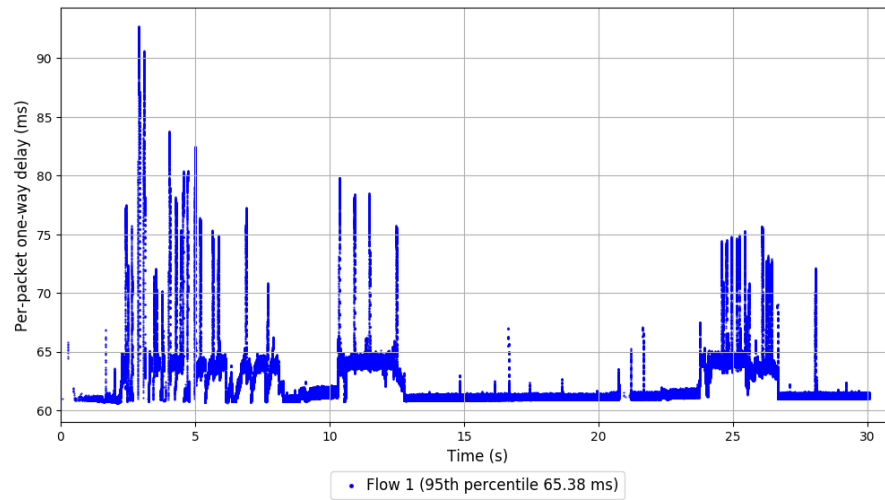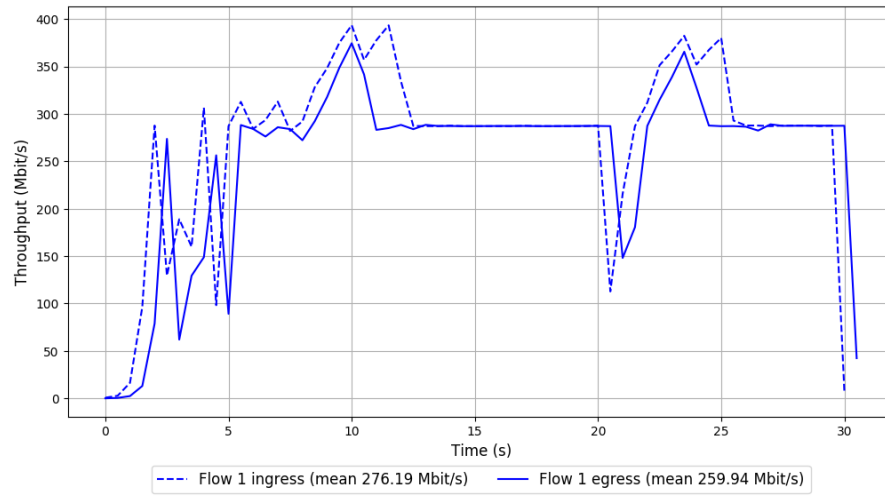
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2019-03-26 21:19:31
End at: 2019-03-26 21:20:01
Local clock offset: -2.036 ms
Remote clock offset: -35.002 ms


# Below is generated by plot.py at 2019-03-26 22:41:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 252.59 Mbit/s
95th percentile per-packet one-way delay: 70.772 ms
Loss rate: 5.15%
-- Flow 1:
Average throughput: 252.59 Mbit/s
95th percentile per-packet one-way delay: 70.772 ms
Loss rate: 5.15%
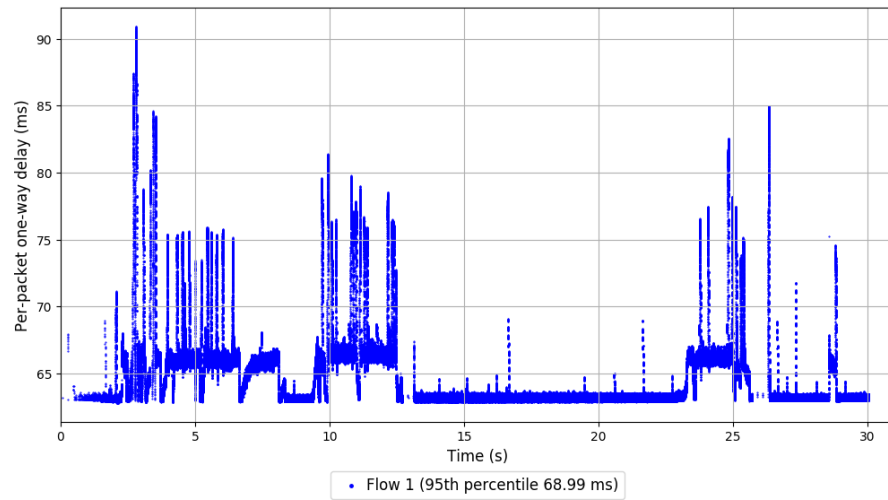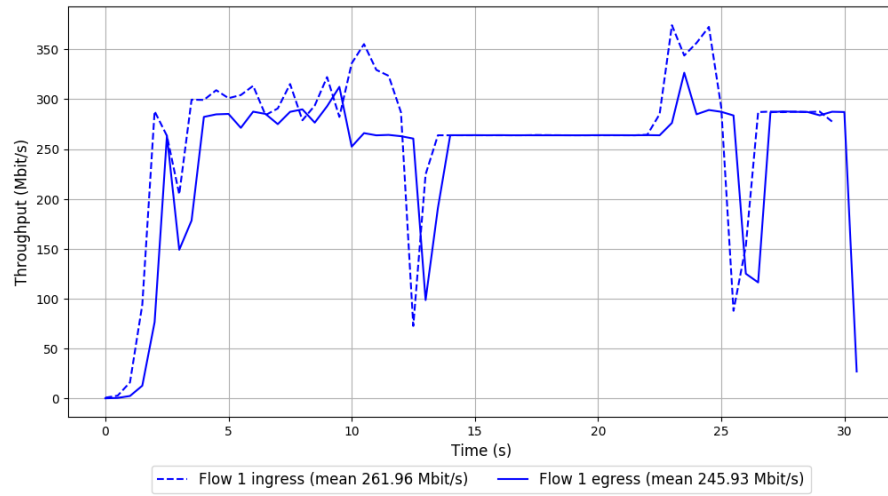```

# Run 3: Report of TCP BBR — Data Link



Flow 1 ingress (mean 266.30 Mbit/s) --- Flow 1 egress (mean 252.59 Mbit/s)



Flow 1 (95th percentile 70.77 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2019-03-26 21:47:03
End at: 2019-03-26 21:47:33
Local clock offset: -5.024 ms
Remote clock offset: -38.888 ms


# Below is generated by plot.py at 2019-03-26 22:41:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 259.94 Mbit/s
95th percentile per-packet one-way delay: 65.377 ms
Loss rate: 5.88%
-- Flow 1:
Average throughput: 259.94 Mbit/s
95th percentile per-packet one-way delay: 65.377 ms
Loss rate: 5.88%
```

Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 276.19 Mbit/s)   Flow 1 egress (mean 259.94 Mbit/s)

Flow 1 (95th percentile 65.38 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2019-03-26 22:20:21
End at: 2019-03-26 22:20:51
Local clock offset: 3.509 ms
Remote clock offset: -38.934 ms

# Below is generated by plot.py at 2019-03-26 22:41:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 245.93 Mbit/s
95th percentile per-packet one-way delay: 68.991 ms
Loss rate: 6.12%
-- Flow 1:
Average throughput: 245.93 Mbit/s
95th percentile per-packet one-way delay: 68.991 ms
Loss rate: 6.12%
```

Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 261.96 Mbit/s)   Flow 1 egress (mean 245.93 Mbit/s)

Flow 1 (95th percentile 68.99 ms)

```
Run 1: Statistics of Copa

Start at: 2019-03-26 20:32:38
End at: 2019-03-26 20:33:08
Local clock offset: -0.331 ms
Remote clock offset: -28.898 ms
```
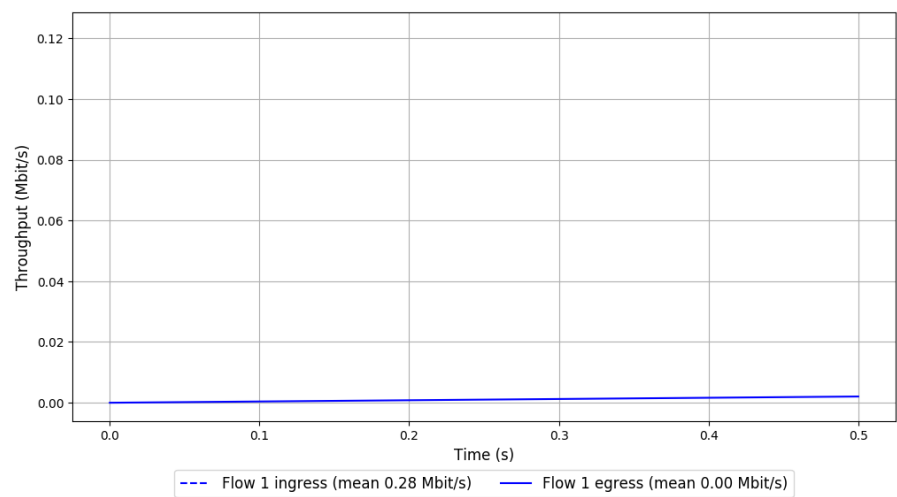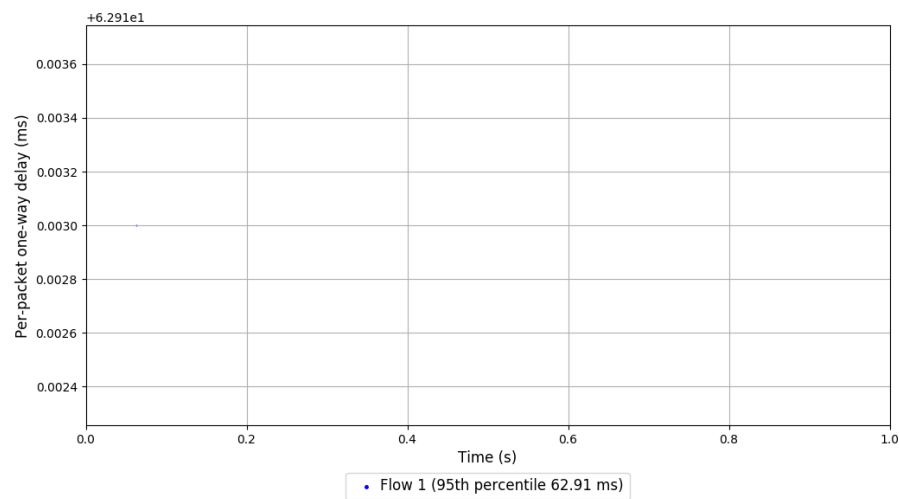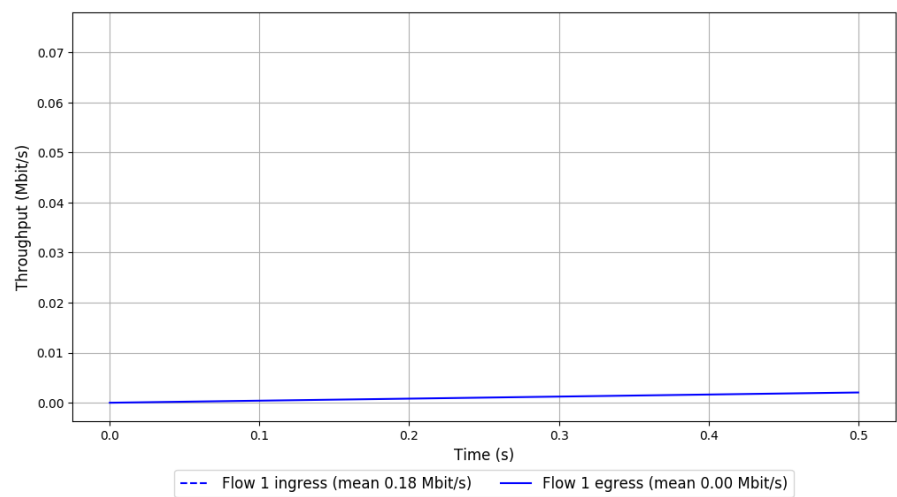
Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 0.17 Mbit/s) --- Flow 1 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 70.78 ms)

16

```
Run 2: Statistics of Copa

Start at: 2019-03-26 21:00:02
End at: 2019-03-26 21:00:32
Local clock offset: -1.171 ms
Remote clock offset: -41.098 ms
```

Run 2: Report of Copa — Data Link

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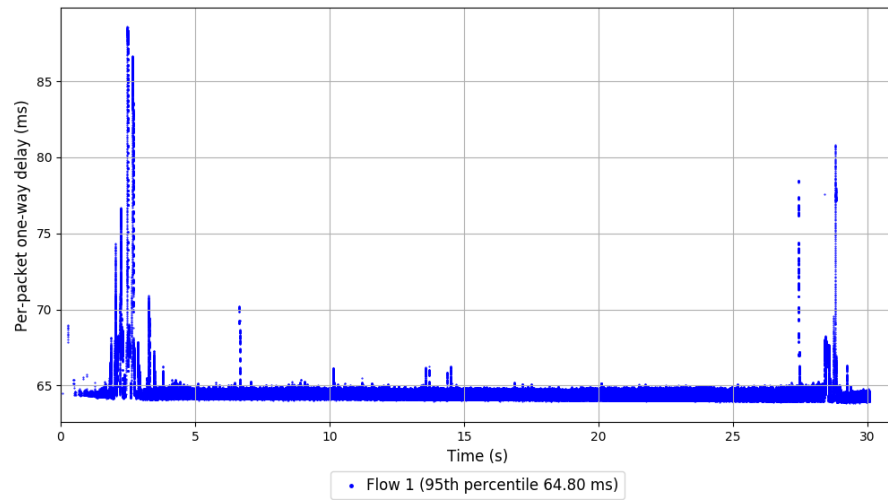

Flow 1 (95th percentile 61.56 ms)

```
Run 3: Statistics of Copa

Start at: 2019-03-26 21:27:31
End at: 2019-03-26 21:28:01
Local clock offset: -3.77 ms
Remote clock offset: -36.353 ms
```
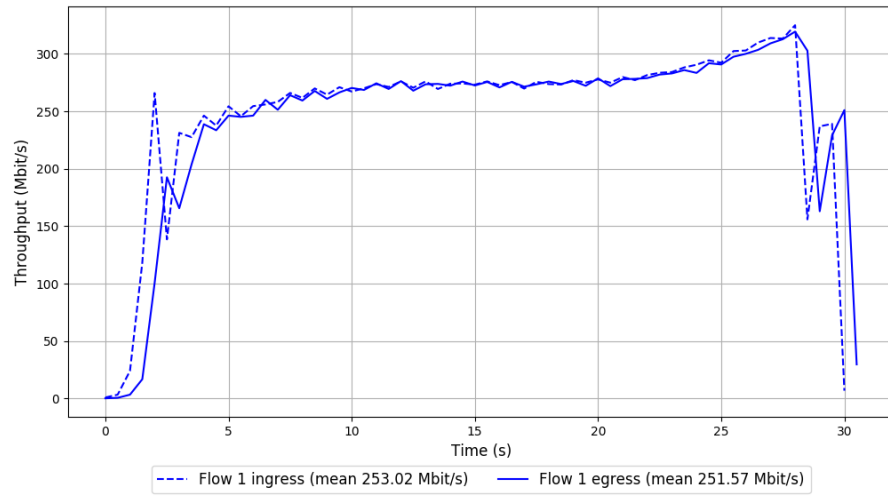
Run 3: Report of Copa — Data Link

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

Flow 1 (95th percentile 62.91 ms)

Run 4: Statistics of Copa

Start at: 2019-03-26 21:55:05
End at: 2019-03-26 21:55:35
Local clock offset: -1.699 ms
Remote clock offset: -34.673 ms

Run 4: Report of Copa — Data Link

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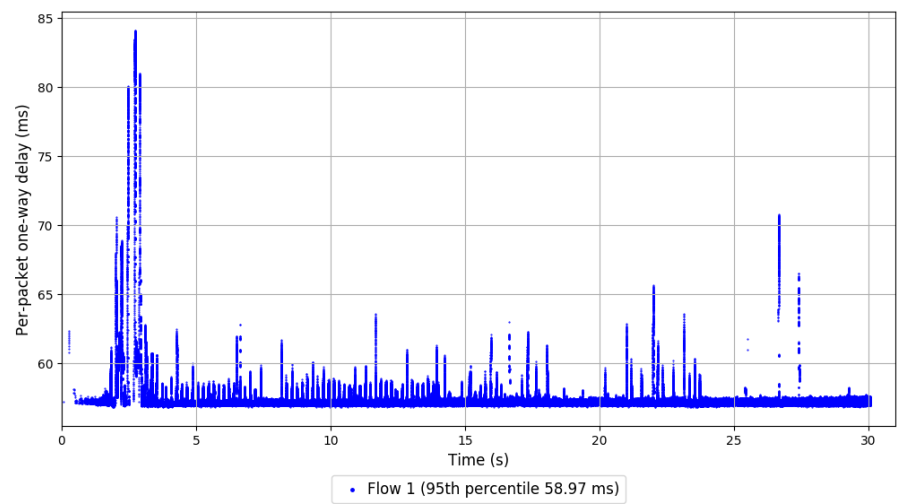

Flow 1 (95th percentile 68.27 ms)

Run 5: Statistics of Copa

Start at: 2019-03-26 22:28:17
End at: 2019-03-26 22:28:47
Local clock offset: 4.675 ms
Remote clock offset: -39.832 ms

Run 5: Report of Copa — Data Link

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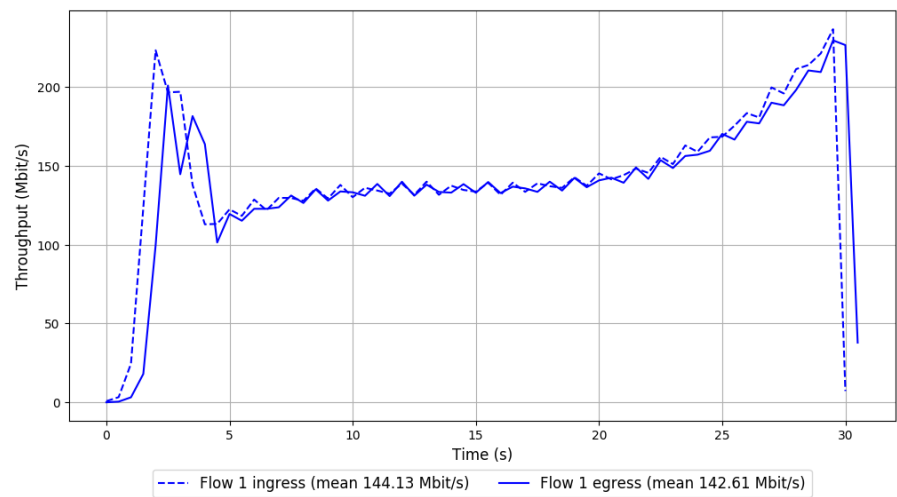

Flow 1 (95th percentile 62.62 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2019-03-26 20:20:33
End at: 2019-03-26 20:21:03
Local clock offset: 4.483 ms
Remote clock offset: -35.763 ms


# Below is generated by plot.py at 2019-03-26 22:41:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.57 Mbit/s
95th percentile per-packet one-way delay: 64.801 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 251.57 Mbit/s
95th percentile per-packet one-way delay: 64.801 ms
Loss rate: 0.57%
```

Run 1: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 253.02 Mbit/s) —— Flow 1 egress (mean 251.57 Mbit/s)
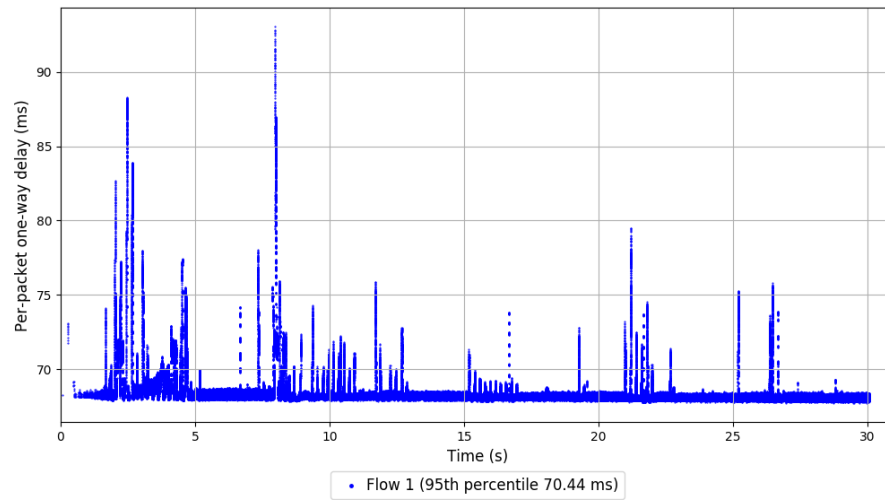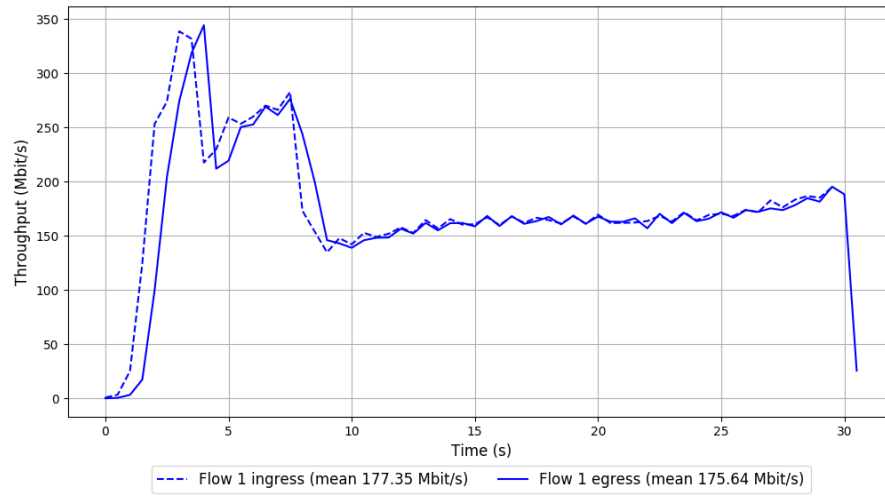

• Flow 1 (95th percentile 64.80 ms)

```
Run 2: Statistics of TCP Cubic

Start at: 2019-03-26 20:48:11
End at: 2019-03-26 20:48:41
Local clock offset: -0.82 ms
Remote clock offset: -42.052 ms


# Below is generated by plot.py at 2019-03-26 22:41:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 142.61 Mbit/s
95th percentile per-packet one-way delay: 58.965 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 142.61 Mbit/s
95th percentile per-packet one-way delay: 58.965 ms
Loss rate: 1.06%
```
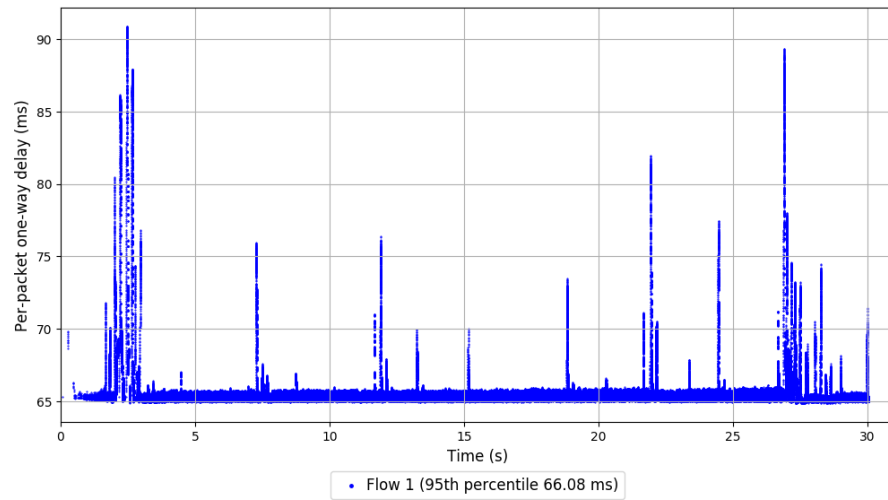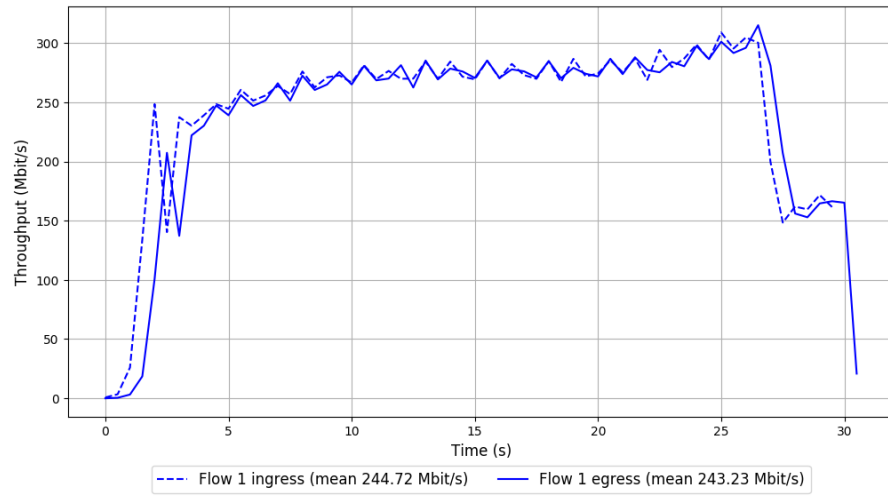
Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 144.13 Mbit/s)   Flow 1 egress (mean 142.61 Mbit/s)
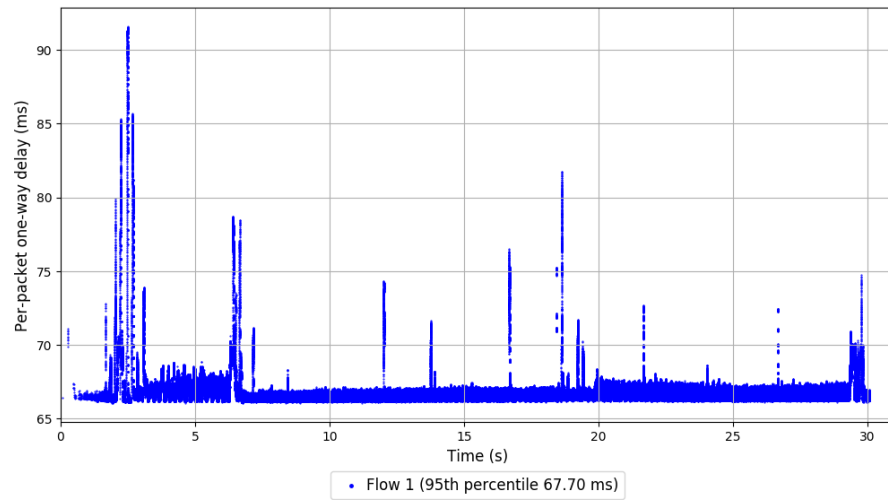

Flow 1 (95th percentile 58.97 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2019-03-26 21:15:35
End at: 2019-03-26 21:16:05
Local clock offset: 0.826 ms
Remote clock offset: -30.226 ms


# Below is generated by plot.py at 2019-03-26 22:41:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.64 Mbit/s
95th percentile per-packet one-way delay: 70.444 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 175.64 Mbit/s
95th percentile per-packet one-way delay: 70.444 ms
Loss rate: 0.96%
```
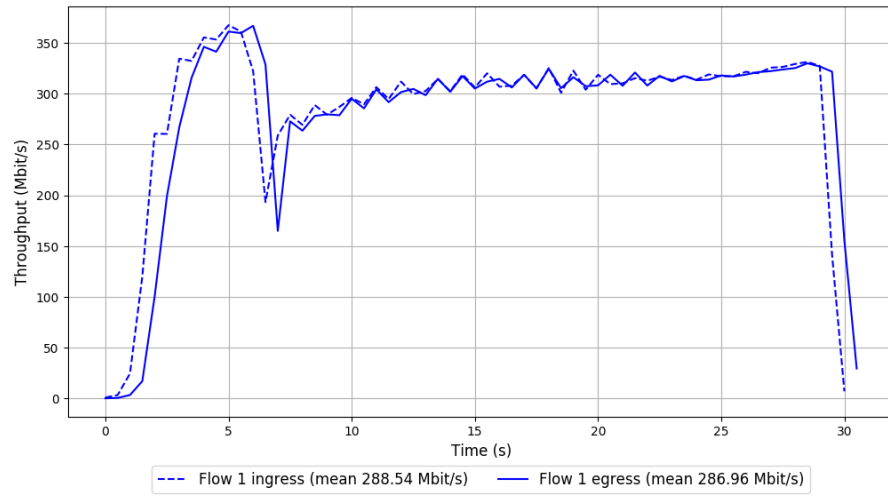
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 177.35 Mbit/s) --- Flow 1 egress (mean 175.64 Mbit/s)

Flow 1 (95th percentile 70.44 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2019-03-26 21:43:05
End at: 2019-03-26 21:43:35
Local clock offset: -4.758 ms
Remote clock offset: -33.408 ms


# Below is generated by plot.py at 2019-03-26 22:43:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.23 Mbit/s
95th percentile per-packet one-way delay: 66.075 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 243.23 Mbit/s
95th percentile per-packet one-way delay: 66.075 ms
Loss rate: 0.61%
```
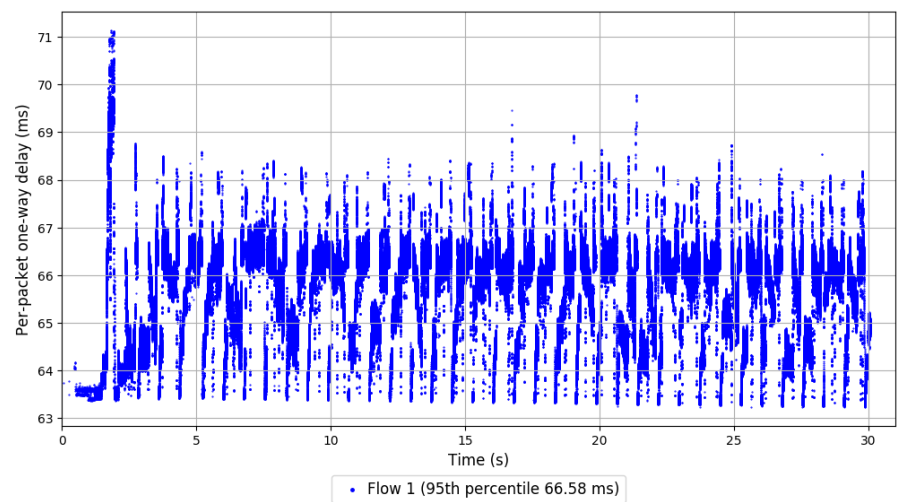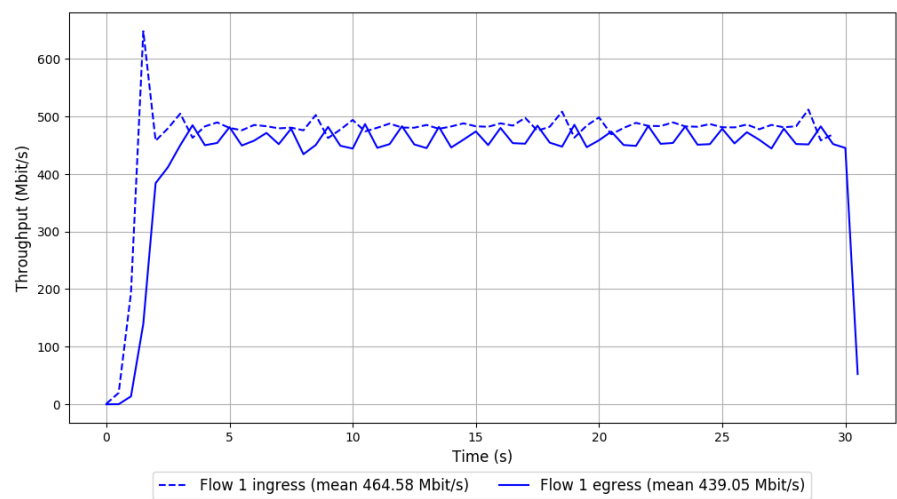
Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2019-03-26 22:10:39
End at: 2019-03-26 22:11:09
Local clock offset: 2.645 ms
Remote clock offset: -32.107 ms


# Below is generated by plot.py at 2019-03-26 22:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 286.96 Mbit/s
95th percentile per-packet one-way delay: 67.698 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 286.96 Mbit/s
95th percentile per-packet one-way delay: 67.698 ms
Loss rate: 0.55%
```

Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 288.54 Mbit/s) ------ Flow 1 egress (mean 286.96 Mbit/s)
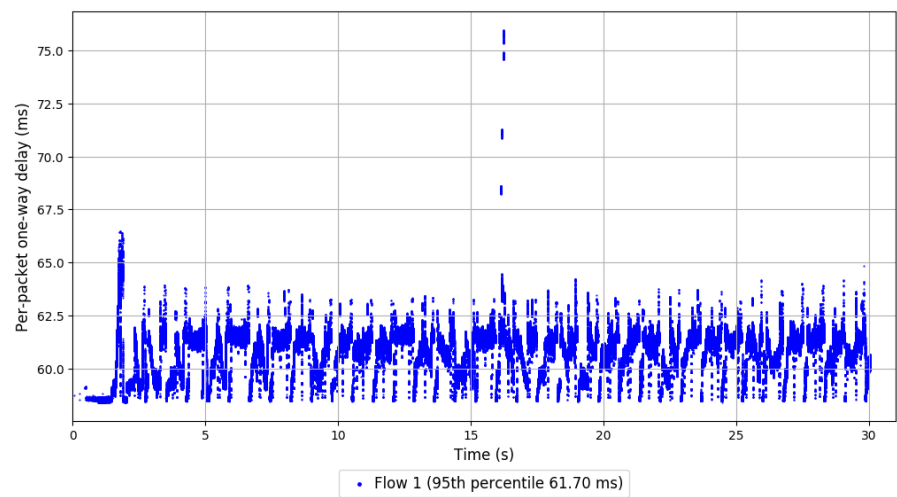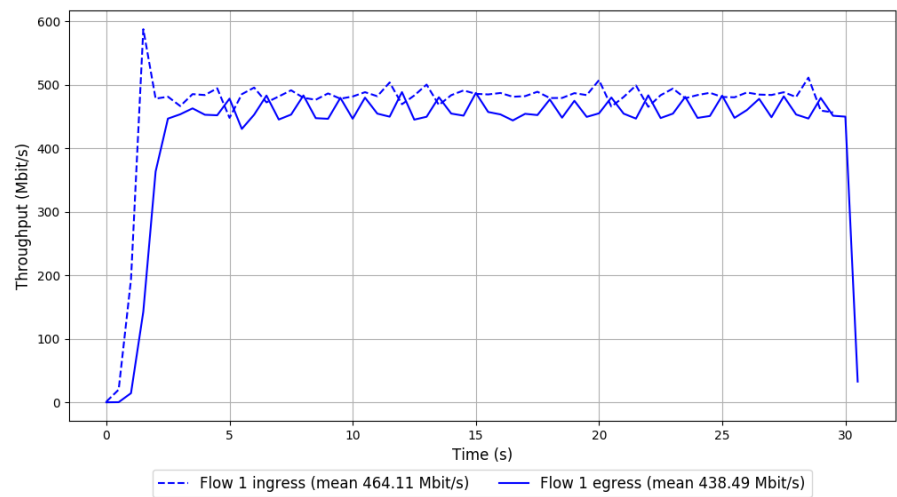

Flow 1 (95th percentile 67.70 ms)

```
Run 1: Statistics of FillP

Start at: 2019-03-26 20:21:56
End at: 2019-03-26 20:22:26
Local clock offset: 3.023 ms
Remote clock offset: -34.62 ms


# Below is generated by plot.py at 2019-03-26 22:47:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 439.05 Mbit/s
95th percentile per-packet one-way delay: 66.581 ms
Loss rate: 5.49%
-- Flow 1:
Average throughput: 439.05 Mbit/s
95th percentile per-packet one-way delay: 66.581 ms
Loss rate: 5.49%
```

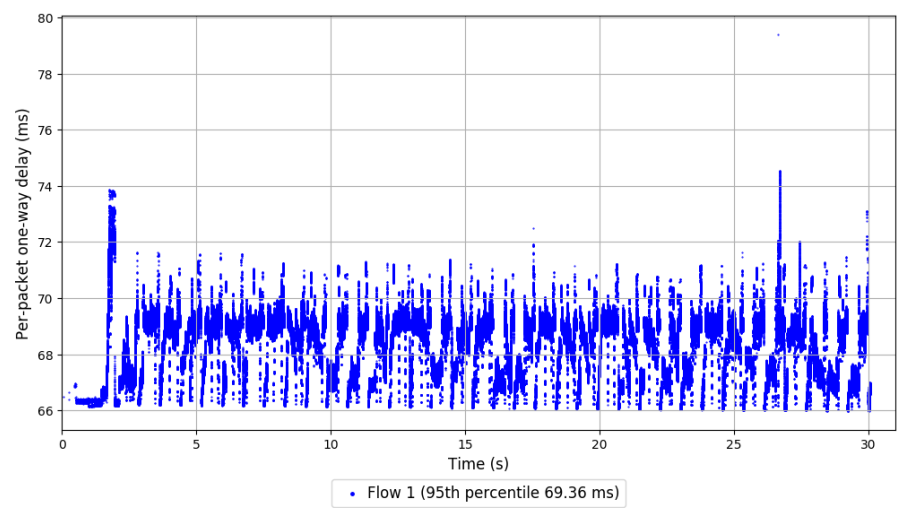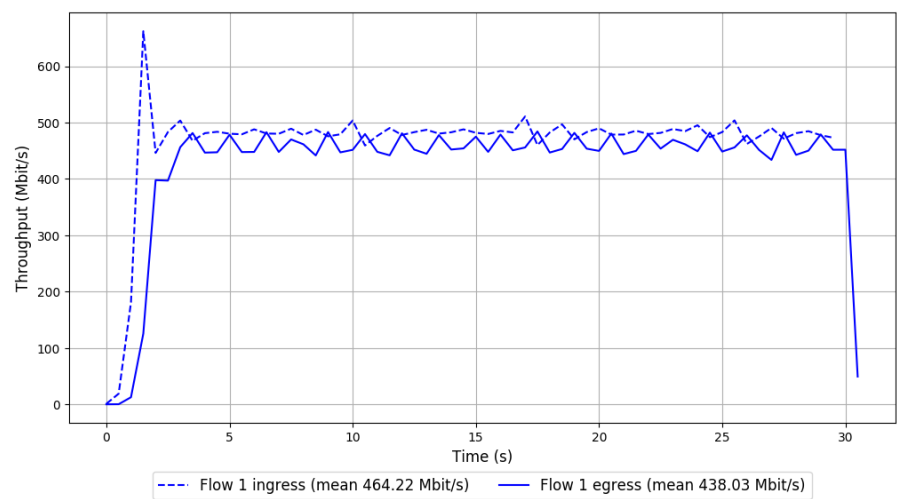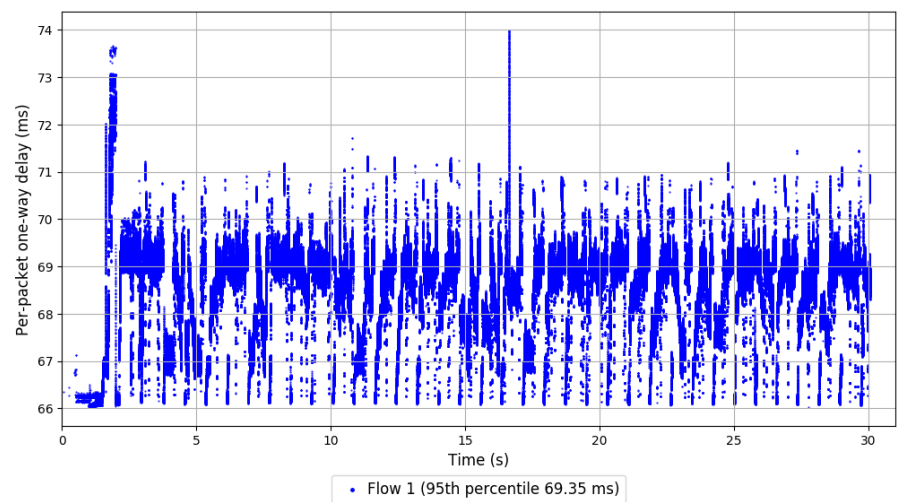Run 1: Report of FillP — Data Link

```
Run 2: Statistics of FillP

Start at: 2019-03-26 20:49:28
End at: 2019-03-26 20:49:58
Local clock offset: -0.057 ms
Remote clock offset: -39.791 ms


# Below is generated by plot.py at 2019-03-26 22:47:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 438.49 Mbit/s
95th percentile per-packet one-way delay: 61.699 ms
Loss rate: 5.52%
-- Flow 1:
Average throughput: 438.49 Mbit/s
95th percentile per-packet one-way delay: 61.699 ms
Loss rate: 5.52%
```
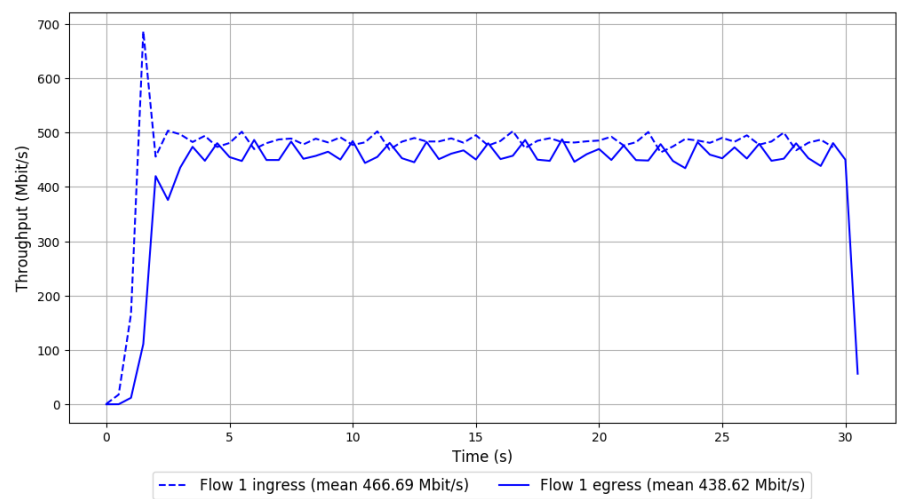
Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2019-03-26 21:16:54
End at: 2019-03-26 21:17:24
Local clock offset: -0.936 ms
Remote clock offset: -32.911 ms


# Below is generated by plot.py at 2019-03-26 22:47:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 438.03 Mbit/s
95th percentile per-packet one-way delay: 69.355 ms
Loss rate: 5.64%
-- Flow 1:
Average throughput: 438.03 Mbit/s
95th percentile per-packet one-way delay: 69.355 ms
Loss rate: 5.64%
```
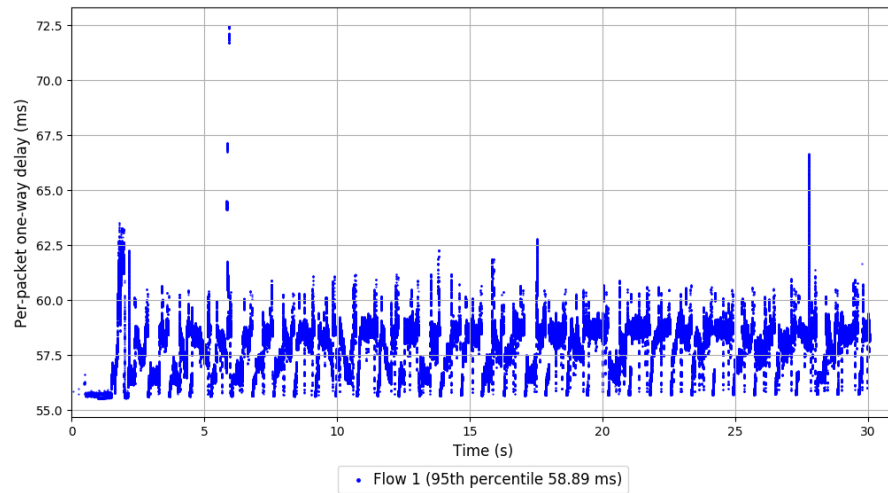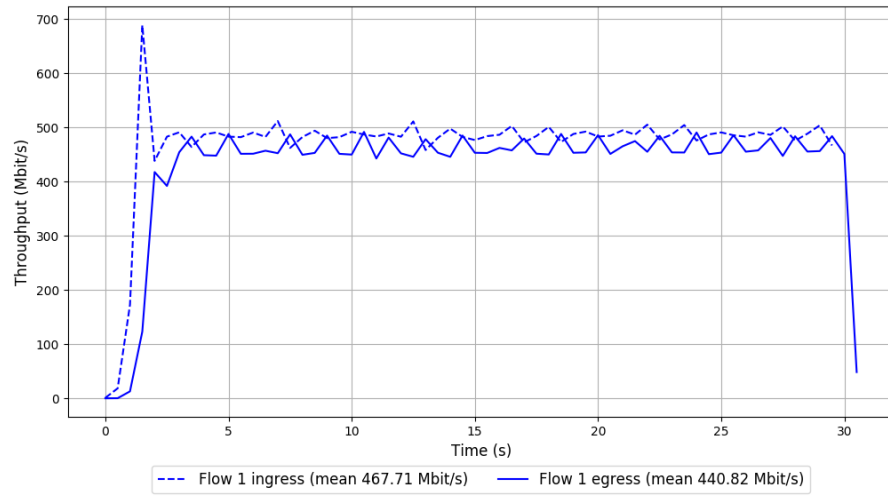
Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 464.22 Mbit/s)   Flow 1 egress (mean 438.03 Mbit/s)

Flow 1 (95th percentile 69.36 ms)

```
Run 4: Statistics of FillP

Start at: 2019-03-26 21:44:26
End at: 2019-03-26 21:44:56
Local clock offset: -5.063 ms
Remote clock offset: -34.974 ms


# Below is generated by plot.py at 2019-03-26 22:48:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 438.62 Mbit/s
95th percentile per-packet one-way delay: 69.347 ms
Loss rate: 6.01%
-- Flow 1:
Average throughput: 438.62 Mbit/s
95th percentile per-packet one-way delay: 69.347 ms
Loss rate: 6.01%
```
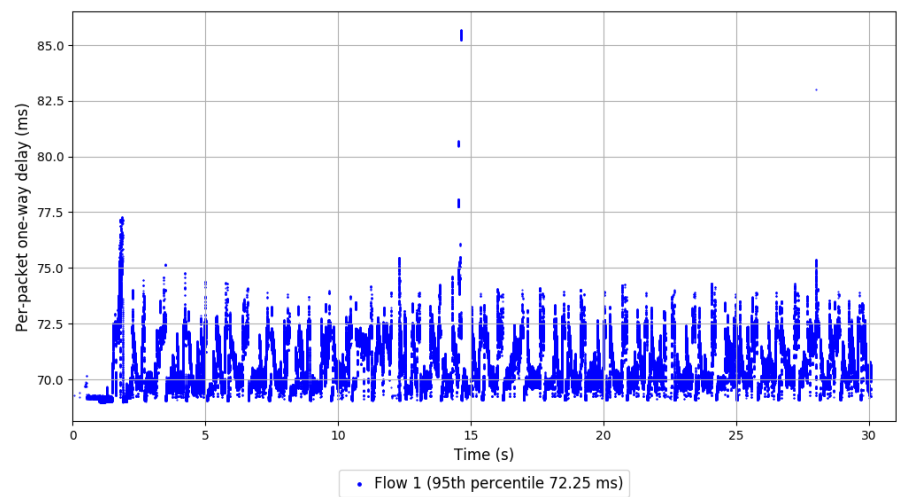
Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 466.69 Mbit/s)   Flow 1 egress (mean 438.62 Mbit/s)

Flow 1 (95th percentile 69.35 ms)

```
Run 5: Statistics of FillP

Start at: 2019-03-26 22:17:35
End at: 2019-03-26 22:18:05
Local clock offset: 2.591 ms
Remote clock offset: -46.246 ms


# Below is generated by plot.py at 2019-03-26 22:48:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 440.82 Mbit/s
95th percentile per-packet one-way delay: 58.886 ms
Loss rate: 5.74%
-- Flow 1:
Average throughput: 440.82 Mbit/s
95th percentile per-packet one-way delay: 58.886 ms
Loss rate: 5.74%
```
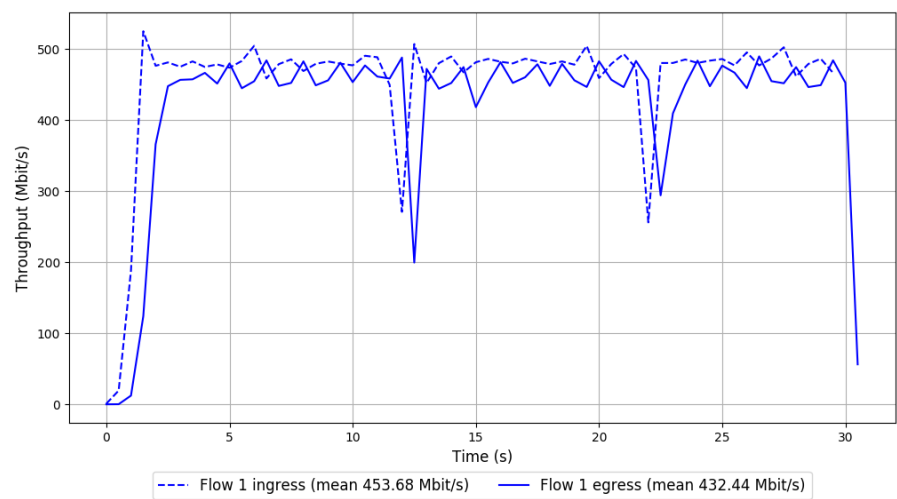
Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 467.71 Mbit/s)   Flow 1 egress (mean 440.82 Mbit/s)
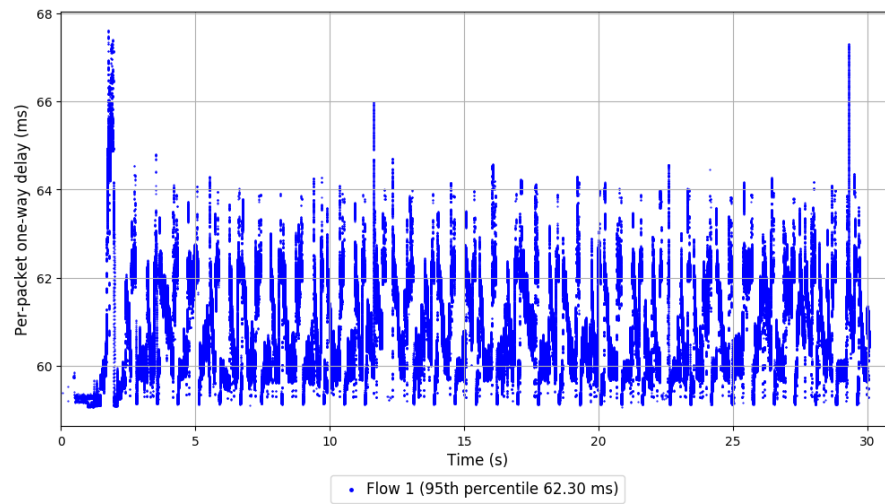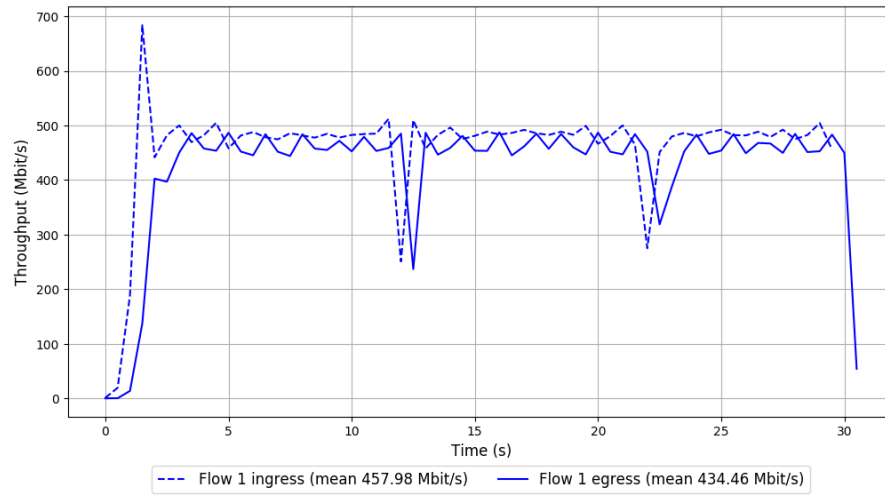

Flow 1 (95th percentile 58.89 ms)

```
Run 1: Statistics of FillP-Sheep

Start at: 2019-03-26 20:09:31
End at: 2019-03-26 20:10:01
Local clock offset: 5.518 ms
Remote clock offset: -32.254 ms


# Below is generated by plot.py at 2019-03-26 22:48:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 432.44 Mbit/s
95th percentile per-packet one-way delay: 72.247 ms
Loss rate: 4.68%
-- Flow 1:
Average throughput: 432.44 Mbit/s
95th percentile per-packet one-way delay: 72.247 ms
Loss rate: 4.68%
```
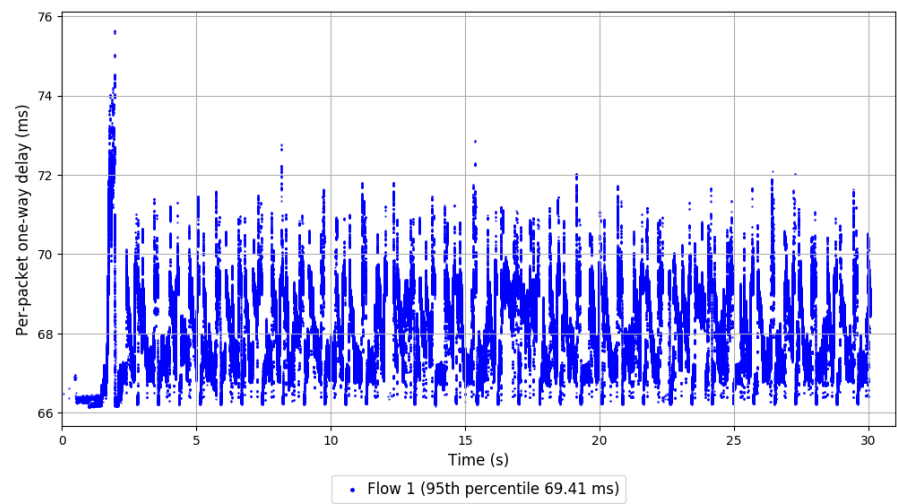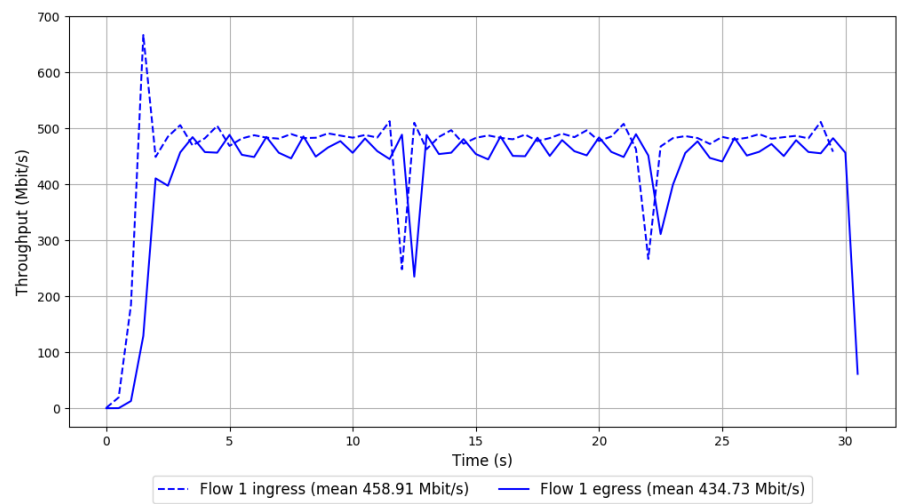
Run 1: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 453.68 Mbit/s)   Flow 1 egress (mean 432.44 Mbit/s)

Flow 1 (95th percentile 72.25 ms)

```
Run 2: Statistics of FillP-Sheep

Start at: 2019-03-26 20:42:41
End at: 2019-03-26 20:43:11
Local clock offset: -0.901 ms
Remote clock offset: -40.233 ms


# Below is generated by plot.py at 2019-03-26 22:49:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 434.46 Mbit/s
95th percentile per-packet one-way delay: 62.302 ms
Loss rate: 5.13%
-- Flow 1:
Average throughput: 434.46 Mbit/s
95th percentile per-packet one-way delay: 62.302 ms
Loss rate: 5.13%
```
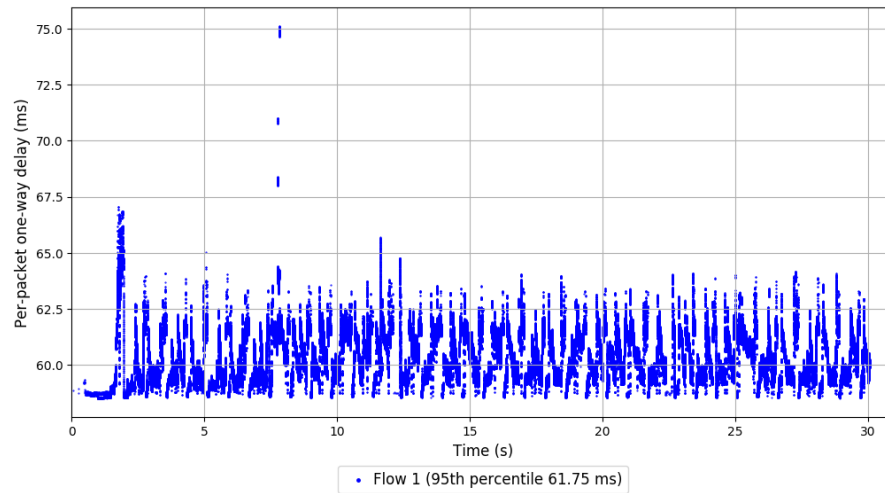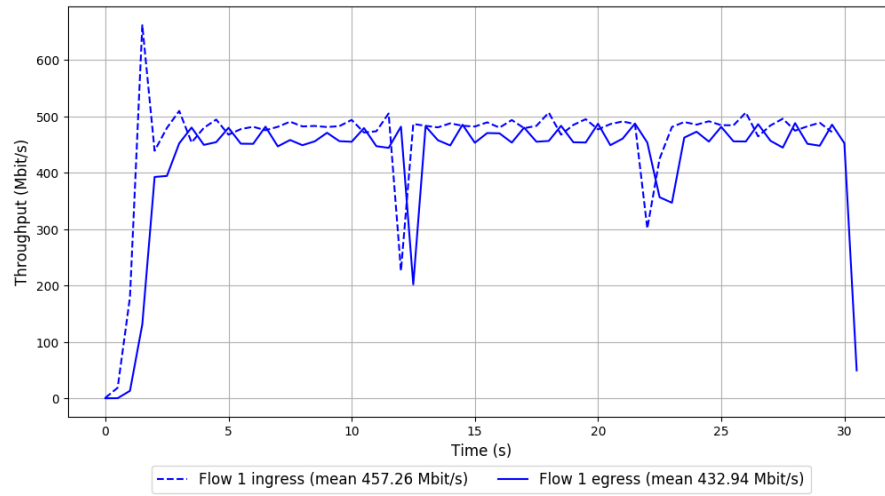
Run 2: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 457.98 Mbit/s) --- Flow 1 egress (mean 434.46 Mbit/s)

Flow 1 (95th percentile 62.30 ms)

```
Run 3: Statistics of FillP-Sheep

Start at: 2019-03-26 21:10:06
End at: 2019-03-26 21:10:36
Local clock offset: -0.518 ms
Remote clock offset: -33.068 ms


# Below is generated by plot.py at 2019-03-26 22:50:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 434.73 Mbit/s
95th percentile per-packet one-way delay: 69.406 ms
Loss rate: 5.26%
-- Flow 1:
Average throughput: 434.73 Mbit/s
95th percentile per-packet one-way delay: 69.406 ms
Loss rate: 5.26%
```
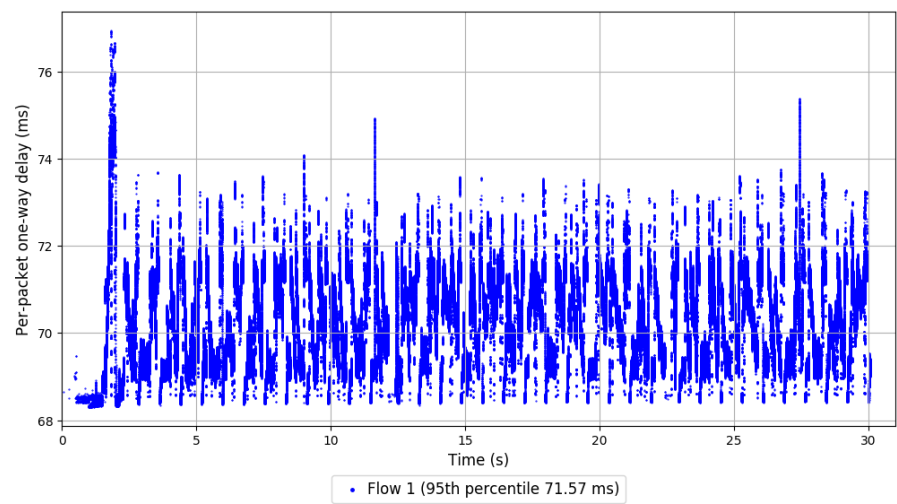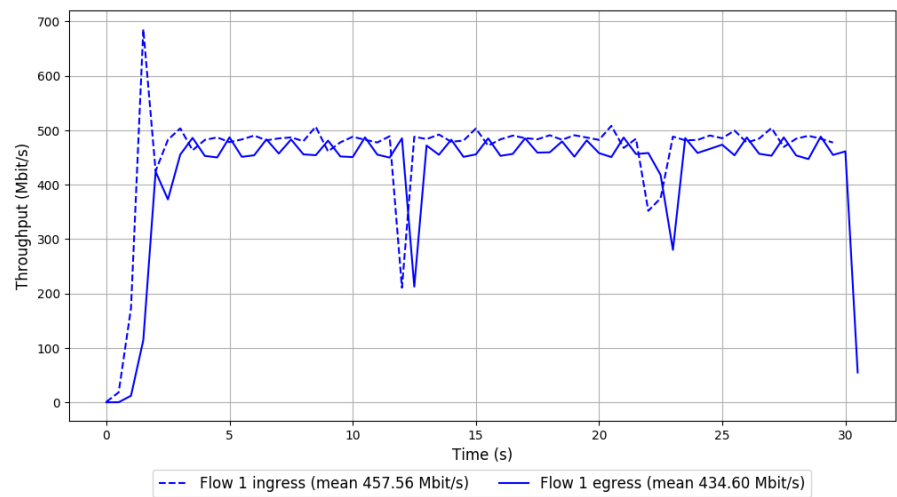
Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 458.91 Mbit/s)   Flow 1 egress (mean 434.73 Mbit/s)

• Flow 1 (95th percentile 69.41 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2019-03-26 21:37:34
End at: 2019-03-26 21:38:04
Local clock offset: -3.331 ms
Remote clock offset: -38.576 ms


# Below is generated by plot.py at 2019-03-26 22:53:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 432.94 Mbit/s
95th percentile per-packet one-way delay: 61.748 ms
Loss rate: 5.31%
-- Flow 1:
Average throughput: 432.94 Mbit/s
95th percentile per-packet one-way delay: 61.748 ms
Loss rate: 5.31%
```
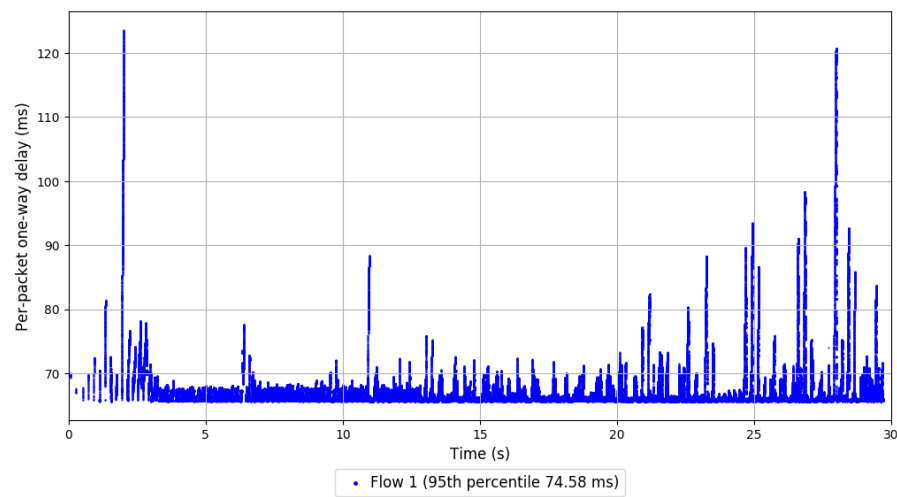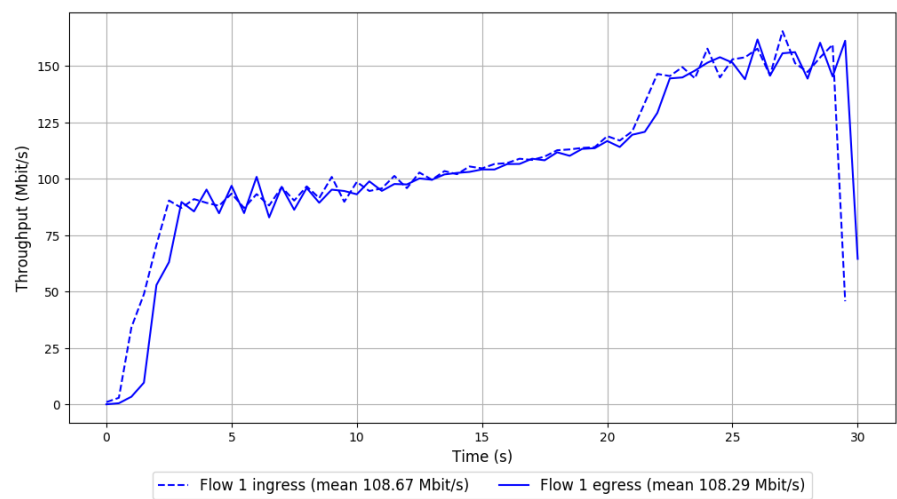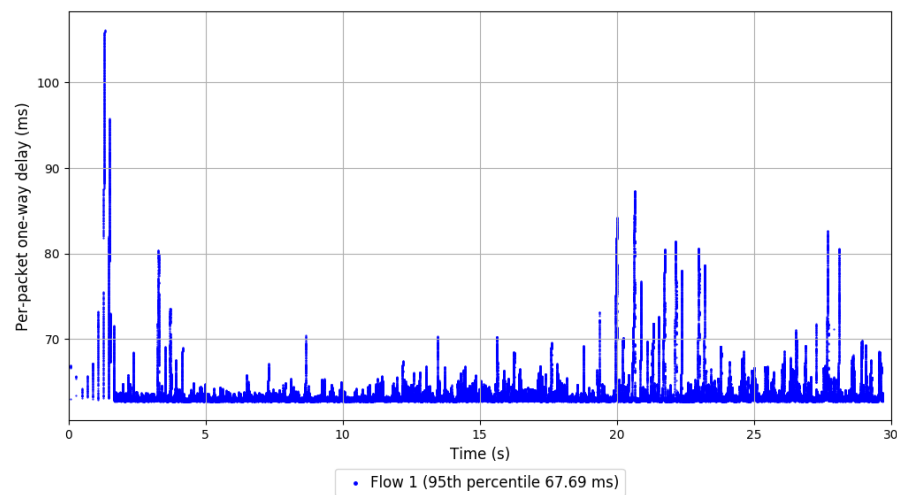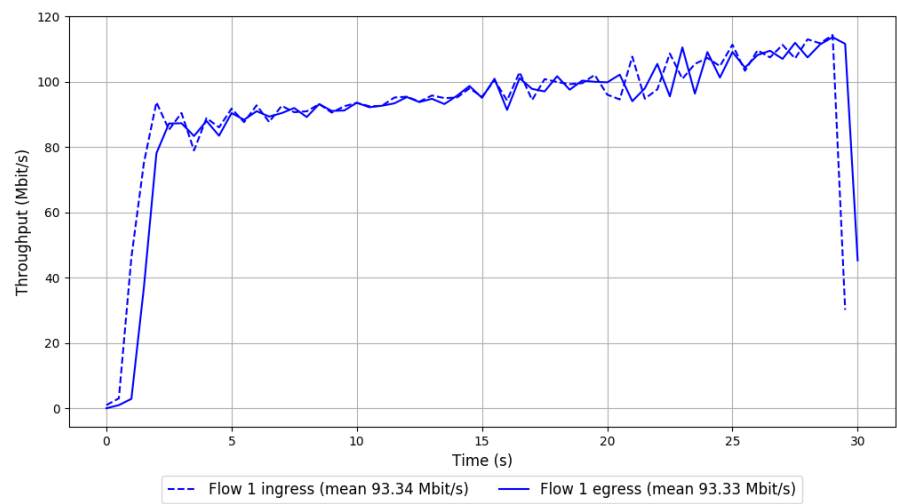
Run 4: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 457.26 Mbit/s)   Flow 1 egress (mean 432.94 Mbit/s)

Flow 1 (95th percentile 61.75 ms)

```
Run 5: Statistics of FillP-Sheep

Start at: 2019-03-26 22:05:09
End at: 2019-03-26 22:05:39
Local clock offset: 0.769 ms
Remote clock offset: -33.692 ms


# Below is generated by plot.py at 2019-03-26 22:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 434.60 Mbit/s
95th percentile per-packet one-way delay: 71.568 ms
Loss rate: 5.02%
-- Flow 1:
Average throughput: 434.60 Mbit/s
95th percentile per-packet one-way delay: 71.568 ms
Loss rate: 5.02%
```
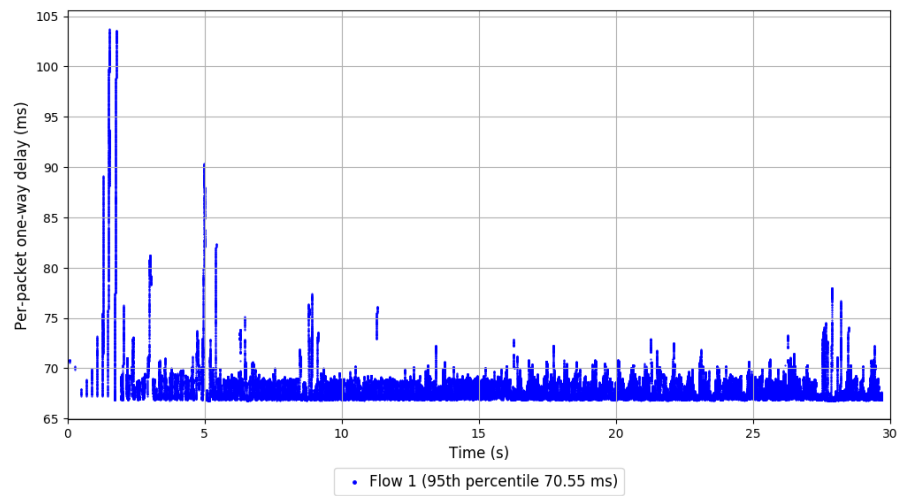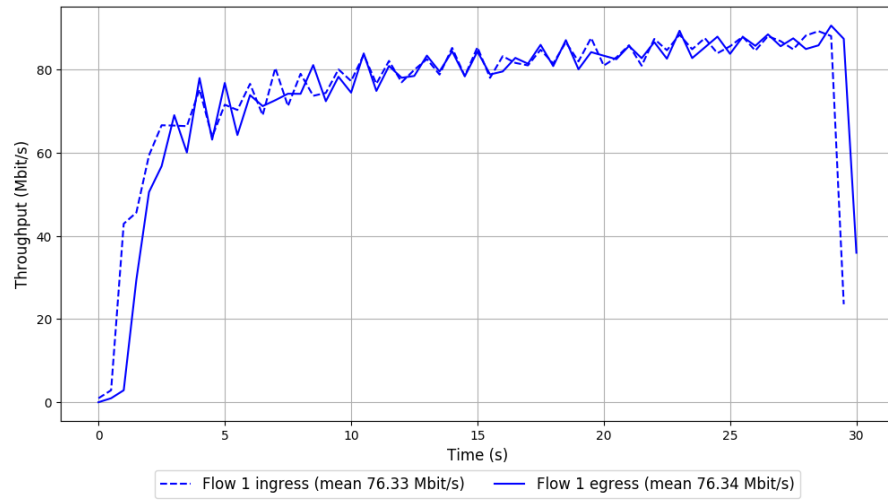
Run 5: Report of FillP-Sheep — Data Link

```
Run 1: Statistics of Indigo

Start at: 2019-03-26 20:08:14
End at: 2019-03-26 20:08:45
Local clock offset: 5.696 ms
Remote clock offset: -35.39 ms

# Below is generated by plot.py at 2019-03-26 22:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 108.29 Mbit/s
95th percentile per-packet one-way delay: 74.582 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 108.29 Mbit/s
95th percentile per-packet one-way delay: 74.582 ms
Loss rate: 0.36%
```

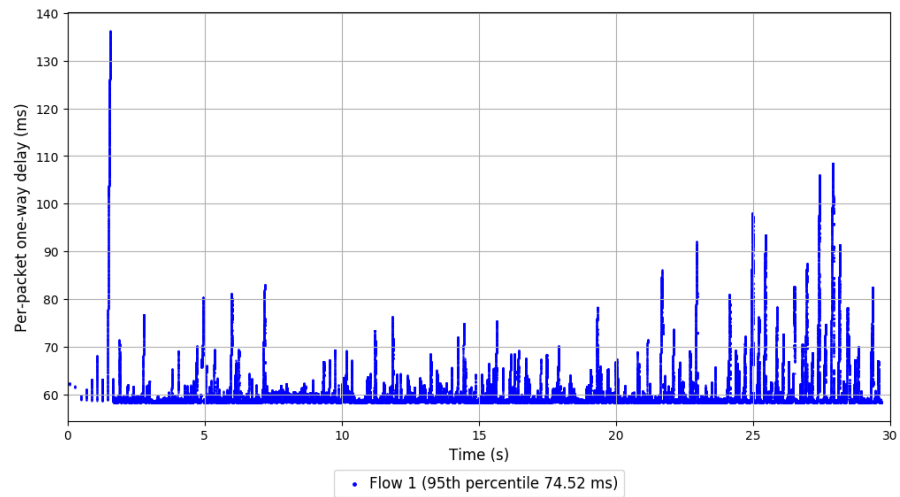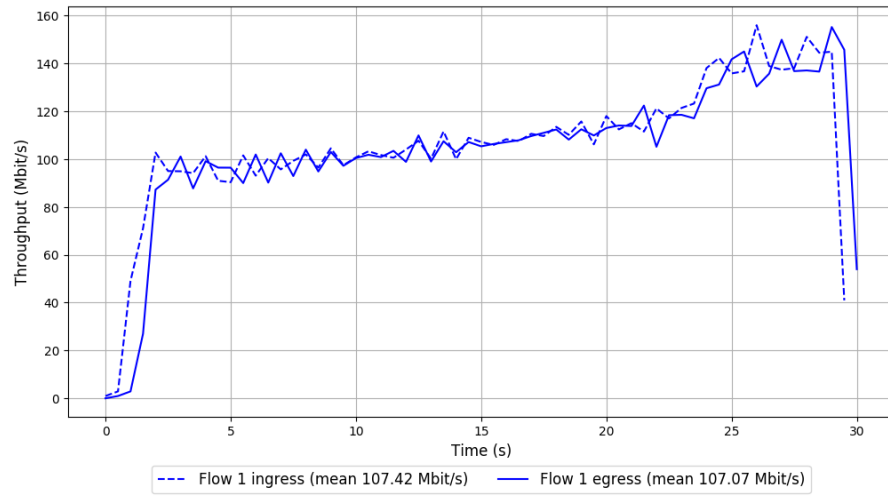Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2019-03-26 20:41:25
End at: 2019-03-26 20:41:55
Local clock offset: -0.645 ms
Remote clock offset: -36.17 ms


# Below is generated by plot.py at 2019-03-26 22:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.33 Mbit/s
95th percentile per-packet one-way delay: 67.693 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.33 Mbit/s
95th percentile per-packet one-way delay: 67.693 ms
Loss rate: 0.01%
```
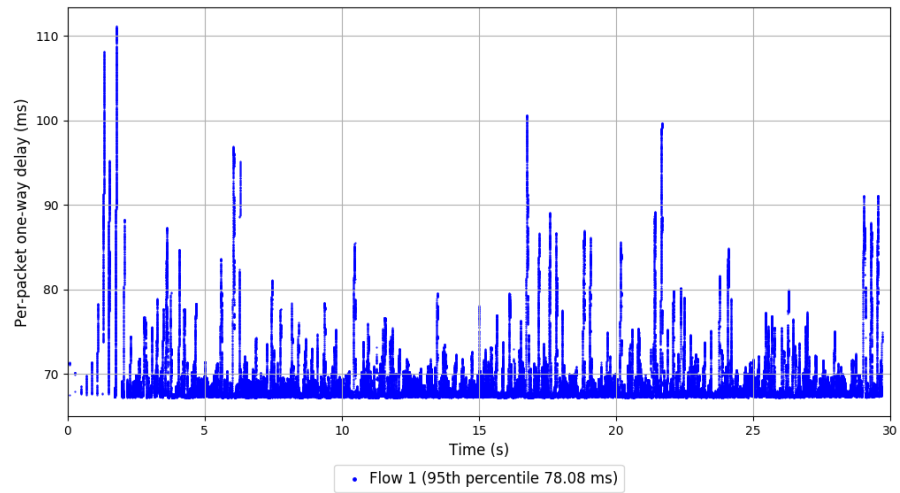
Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2019-03-26 21:08:50
End at: 2019-03-26 21:09:20
Local clock offset: -0.338 ms
Remote clock offset: -34.724 ms


# Below is generated by plot.py at 2019-03-26 22:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.34 Mbit/s
95th percentile per-packet one-way delay: 70.551 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 76.34 Mbit/s
95th percentile per-packet one-way delay: 70.551 ms
Loss rate: 0.01%
```
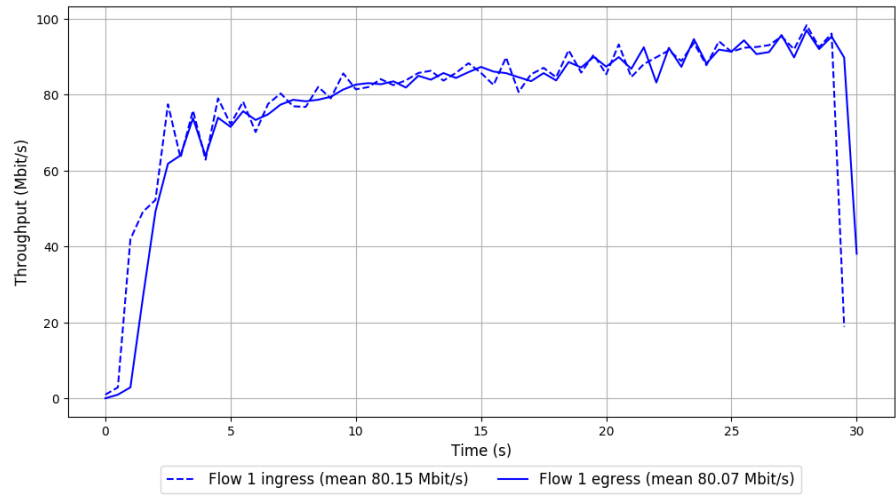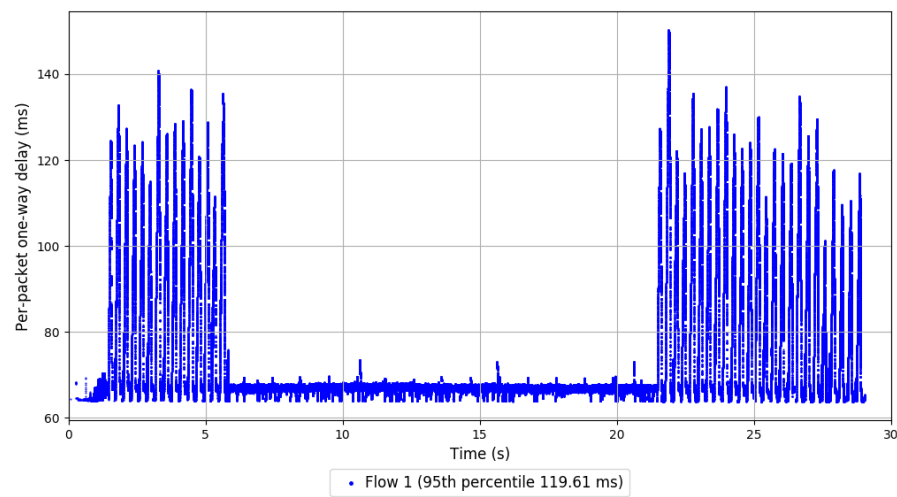
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2019-03-26 21:36:18
End at: 2019-03-26 21:36:48
Local clock offset: -4.113 ms
Remote clock offset: -39.857 ms

# Below is generated by plot.py at 2019-03-26 22:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.07 Mbit/s
95th percentile per-packet one-way delay: 74.515 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 107.07 Mbit/s
95th percentile per-packet one-way delay: 74.515 ms
Loss rate: 0.34%
```
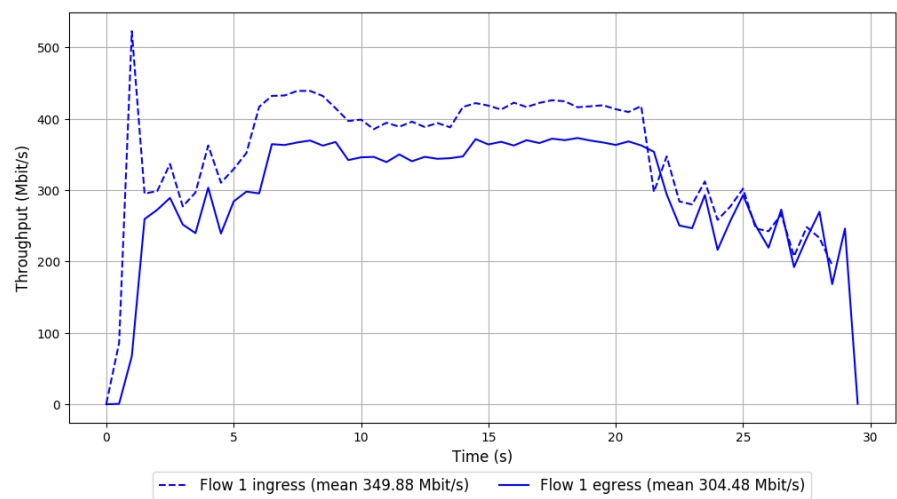
Run 4: Report of Indigo — Data Link

Flow 1 ingress (mean 107.42 Mbit/s) — Flow 1 egress (mean 107.07 Mbit/s)

Flow 1 (95th percentile 74.52 ms)

```
Run 5: Statistics of Indigo

Start at: 2019-03-26 22:03:53
End at: 2019-03-26 22:04:23
Local clock offset: 0.795 ms
Remote clock offset: -34.516 ms

# Below is generated by plot.py at 2019-03-26 22:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.07 Mbit/s
95th percentile per-packet one-way delay: 78.077 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 80.07 Mbit/s
95th percentile per-packet one-way delay: 78.077 ms
Loss rate: 0.10%
```
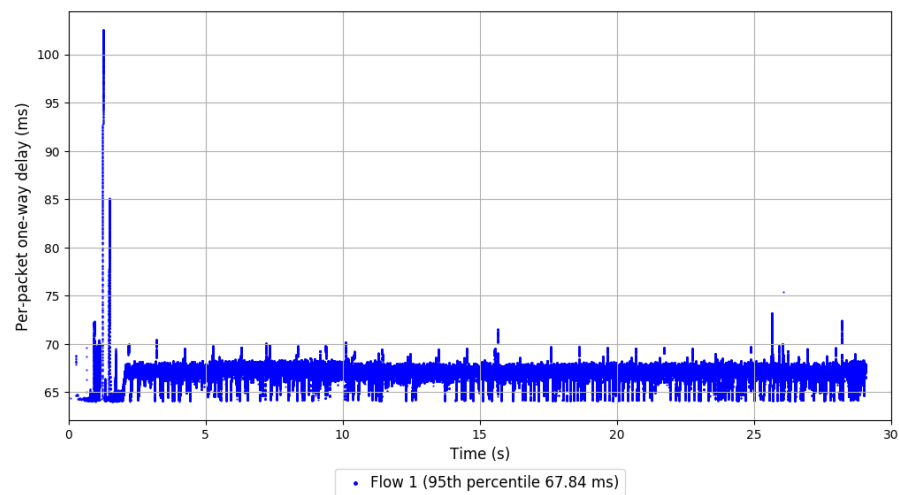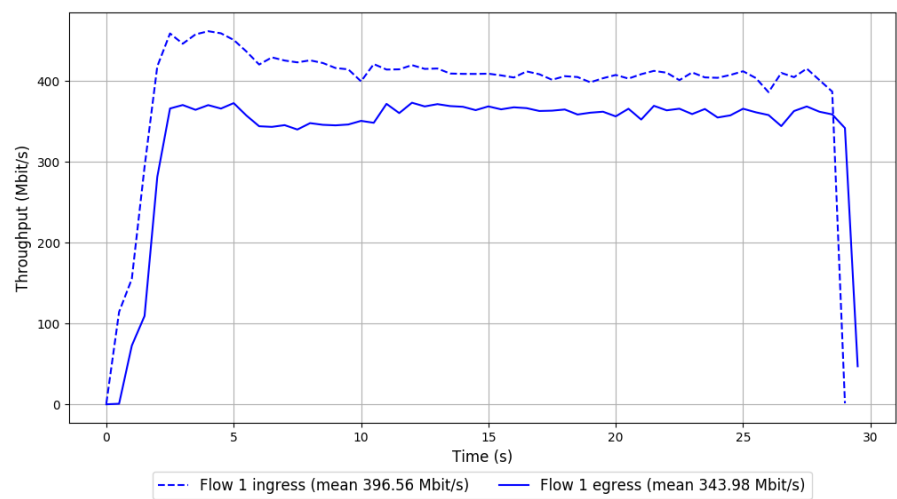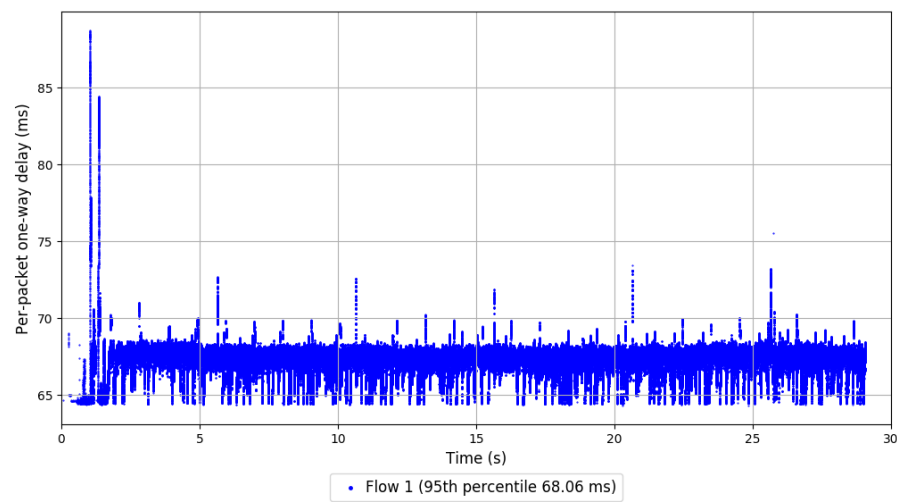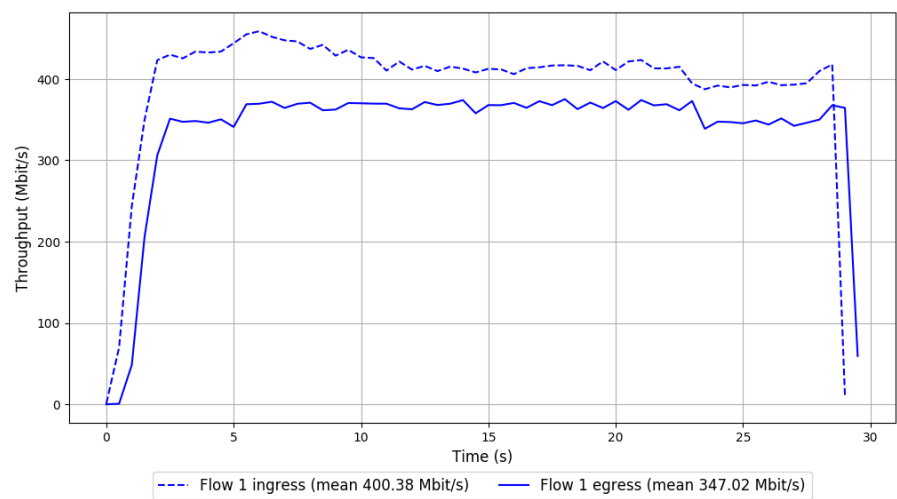
Run 5: Report of Indigo — Data Link

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-26 20:19:00
End at: 2019-03-26 20:19:30
Local clock offset: 4.137 ms
Remote clock offset: -34.648 ms


# Below is generated by plot.py at 2019-03-26 22:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.48 Mbit/s
95th percentile per-packet one-way delay: 119.607 ms
Loss rate: 12.97%
-- Flow 1:
Average throughput: 304.48 Mbit/s
95th percentile per-packet one-way delay: 119.607 ms
Loss rate: 12.97%
```

Run 1: Report of Indigo-MusesC3 — Data Link

66

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-26 20:46:44
End at: 2019-03-26 20:47:14
Local clock offset: 0.483 ms
Remote clock offset: -33.788 ms


# Below is generated by plot.py at 2019-03-26 22:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.98 Mbit/s
95th percentile per-packet one-way delay: 67.837 ms
Loss rate: 13.25%
-- Flow 1:
Average throughput: 343.98 Mbit/s
95th percentile per-packet one-way delay: 67.837 ms
Loss rate: 13.25%
```
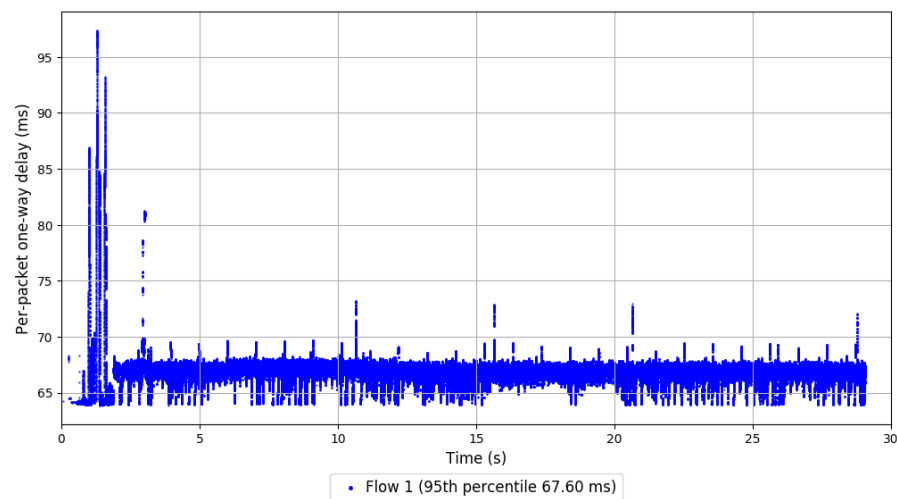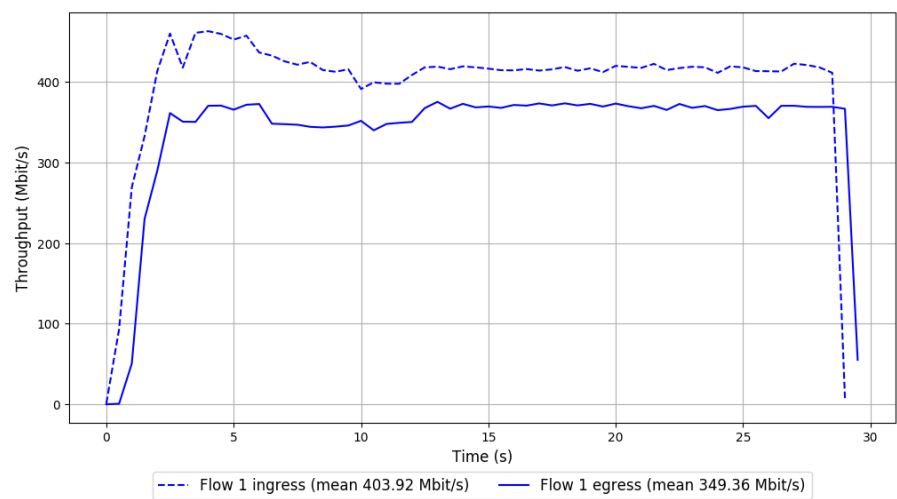
Run 2: Report of Indigo-MusesC3 — Data Link

68

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-26 21:14:08
End at: 2019-03-26 21:14:38
Local clock offset: 0.824 ms
Remote clock offset: -36.348 ms


# Below is generated by plot.py at 2019-03-26 22:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 347.02 Mbit/s
95th percentile per-packet one-way delay: 68.064 ms
Loss rate: 13.32%
-- Flow 1:
Average throughput: 347.02 Mbit/s
95th percentile per-packet one-way delay: 68.064 ms
Loss rate: 13.32%
```
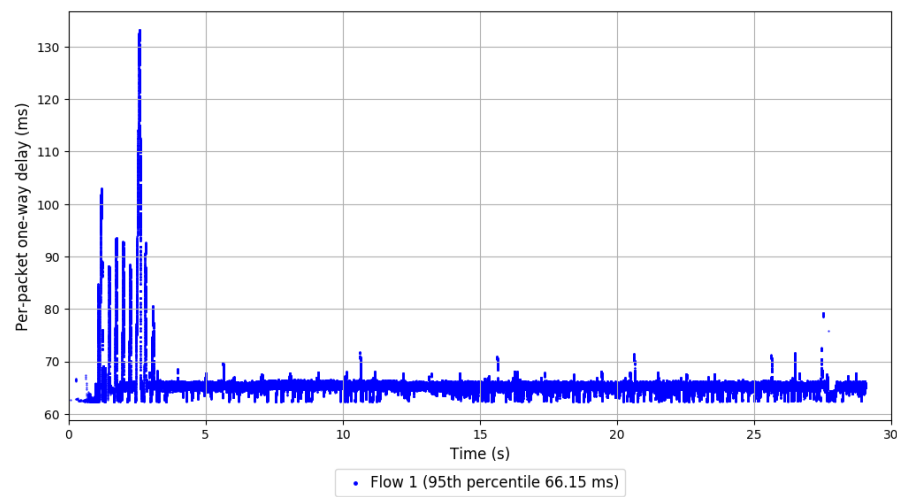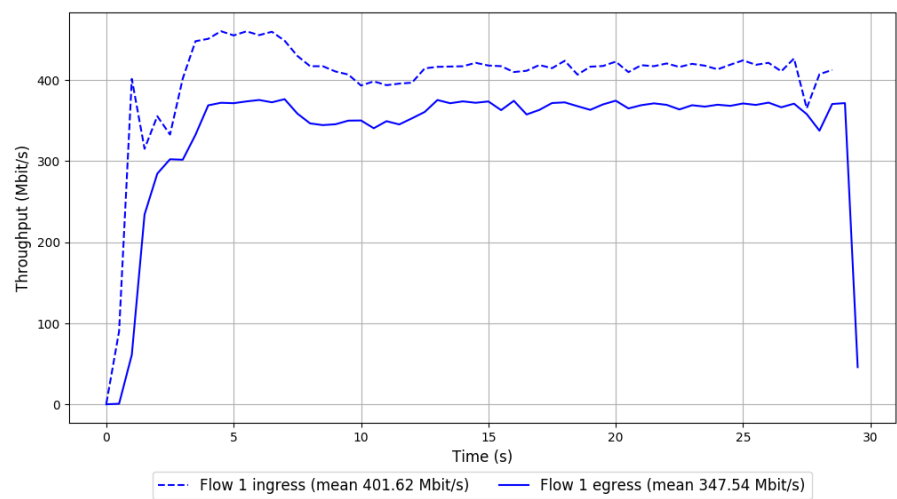
Run 3: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 400.38 Mbit/s) --- Flow 1 egress (mean 347.02 Mbit/s)

· Flow 1 (95th percentile 68.06 ms)

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-26 21:41:38
End at: 2019-03-26 21:42:08
Local clock offset: -5.22 ms
Remote clock offset: -35.075 ms


# Below is generated by plot.py at 2019-03-26 22:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 349.36 Mbit/s
95th percentile per-packet one-way delay: 67.597 ms
Loss rate: 13.50%
-- Flow 1:
Average throughput: 349.36 Mbit/s
95th percentile per-packet one-way delay: 67.597 ms
Loss rate: 13.50%
```
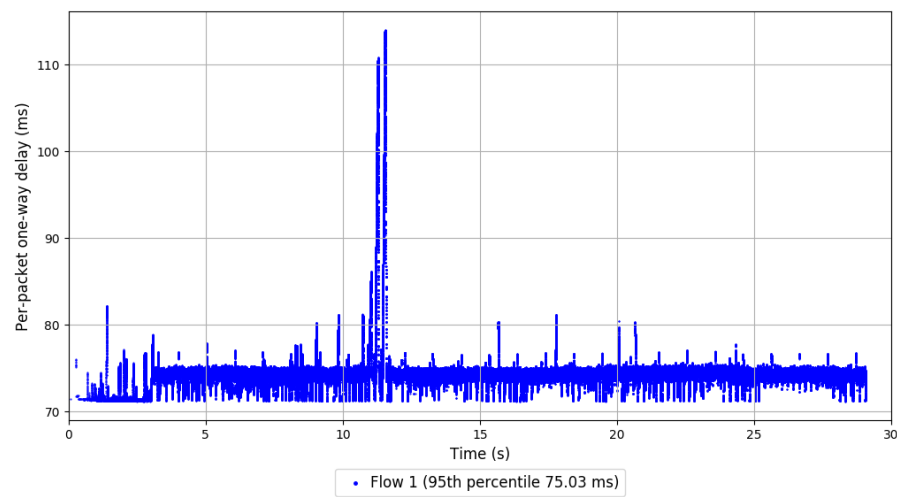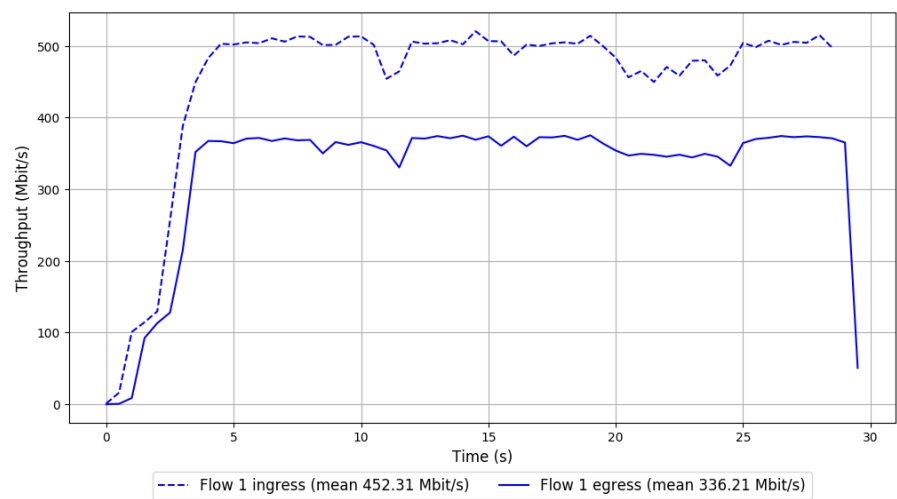
Run 4: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 403.92 Mbit/s)   Flow 1 egress (mean 349.36 Mbit/s)
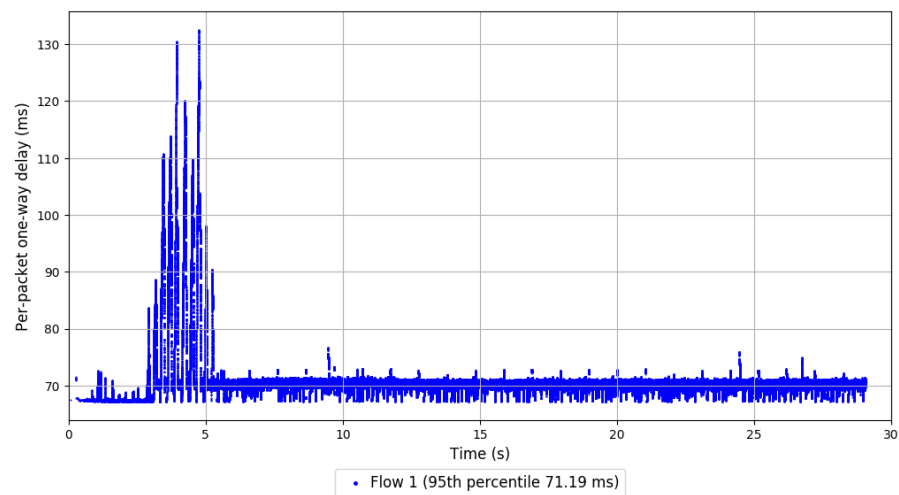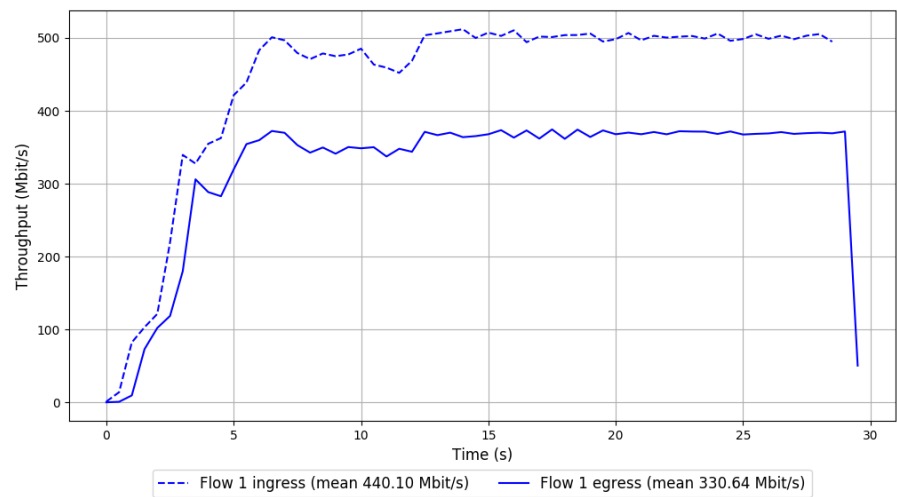

• Flow 1 (95th percentile 67.60 ms)

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-26 22:09:12
End at: 2019-03-26 22:09:42
Local clock offset: 1.975 ms
Remote clock offset: -38.894 ms


# Below is generated by plot.py at 2019-03-26 22:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 347.54 Mbit/s
95th percentile per-packet one-way delay: 66.147 ms
Loss rate: 13.46%
-- Flow 1:
Average throughput: 347.54 Mbit/s
95th percentile per-packet one-way delay: 66.147 ms
Loss rate: 13.46%
```

Run 5: Report of Indigo-MusesC3 — Data Link

74

```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-26 20:28:44
End at: 2019-03-26 20:29:14
Local clock offset: 2.432 ms
Remote clock offset: -28.139 ms


# Below is generated by plot.py at 2019-03-26 22:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.21 Mbit/s
95th percentile per-packet one-way delay: 75.028 ms
Loss rate: 25.66%
-- Flow 1:
Average throughput: 336.21 Mbit/s
95th percentile per-packet one-way delay: 75.028 ms
Loss rate: 25.66%
```
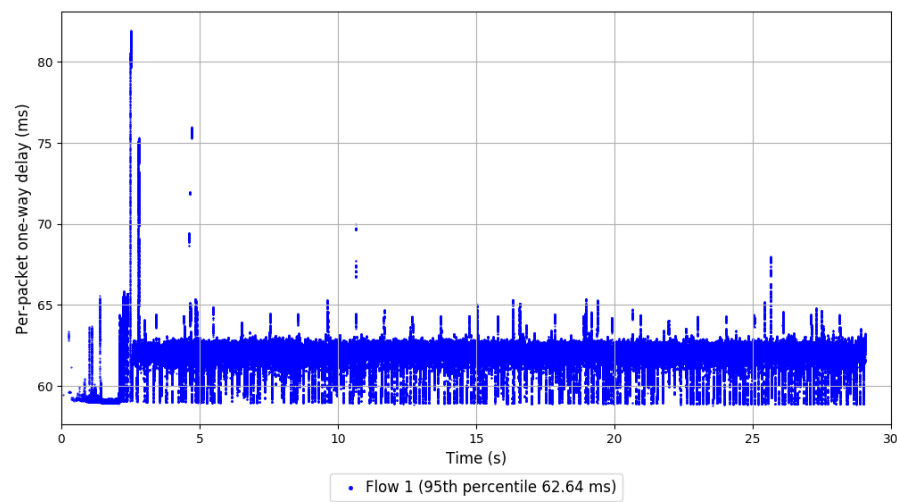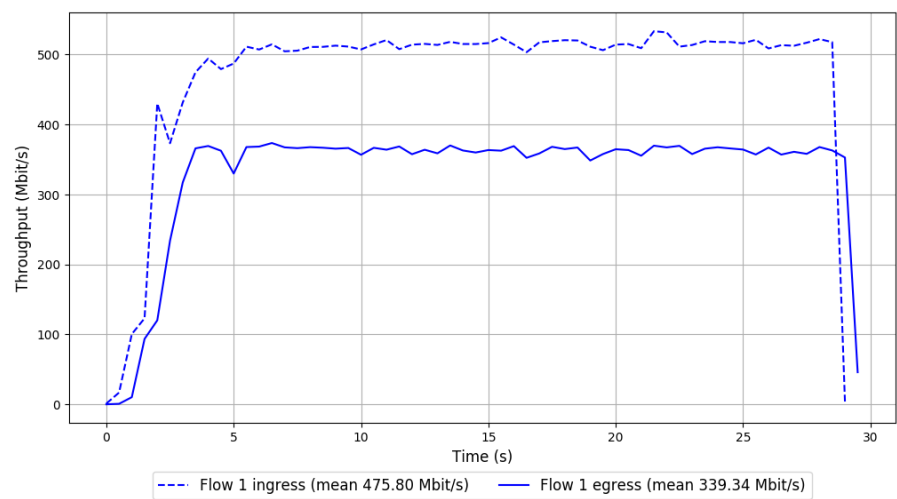
Run 1: Report of Indigo-MusesC5 — Data Link

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-26 20:56:09
End at: 2019-03-26 20:56:39
Local clock offset: -0.54 ms
Remote clock offset: -34.262 ms


# Below is generated by plot.py at 2019-03-26 22:56:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.64 Mbit/s
95th percentile per-packet one-way delay: 71.189 ms
Loss rate: 24.86%
-- Flow 1:
Average throughput: 330.64 Mbit/s
95th percentile per-packet one-way delay: 71.189 ms
Loss rate: 24.86%
```
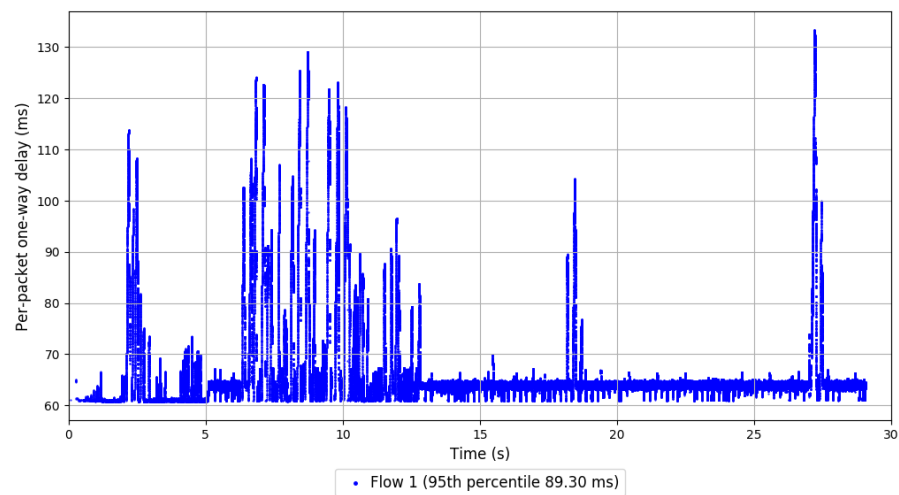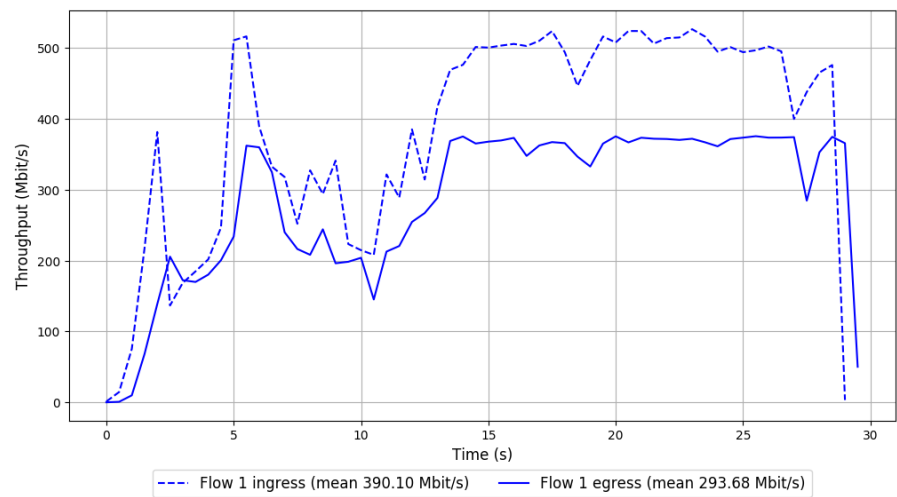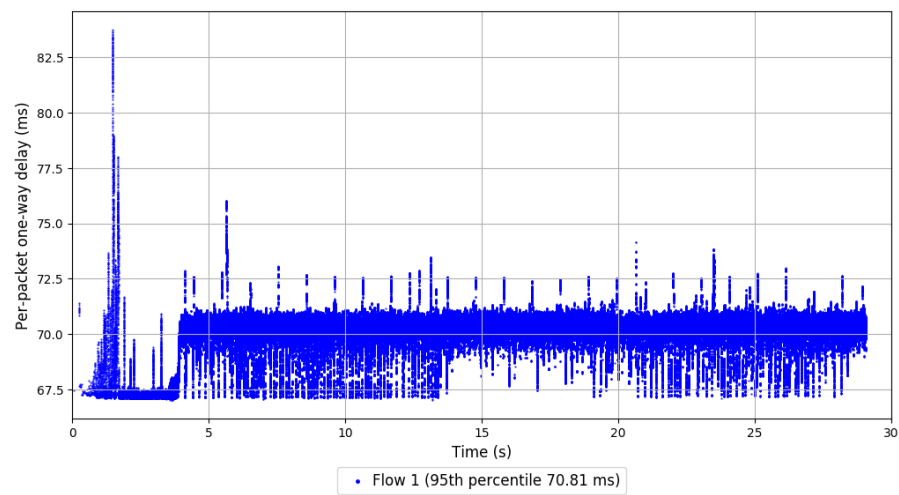
Run 2: Report of Indigo-MusesC5 — Data Link

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-26 21:23:37
End at: 2019-03-26 21:24:07
Local clock offset: -3.422 ms
Remote clock offset: -40.283 ms


# Below is generated by plot.py at 2019-03-26 22:57:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.34 Mbit/s
95th percentile per-packet one-way delay: 62.641 ms
Loss rate: 28.67%
-- Flow 1:
Average throughput: 339.34 Mbit/s
95th percentile per-packet one-way delay: 62.641 ms
Loss rate: 28.67%
```
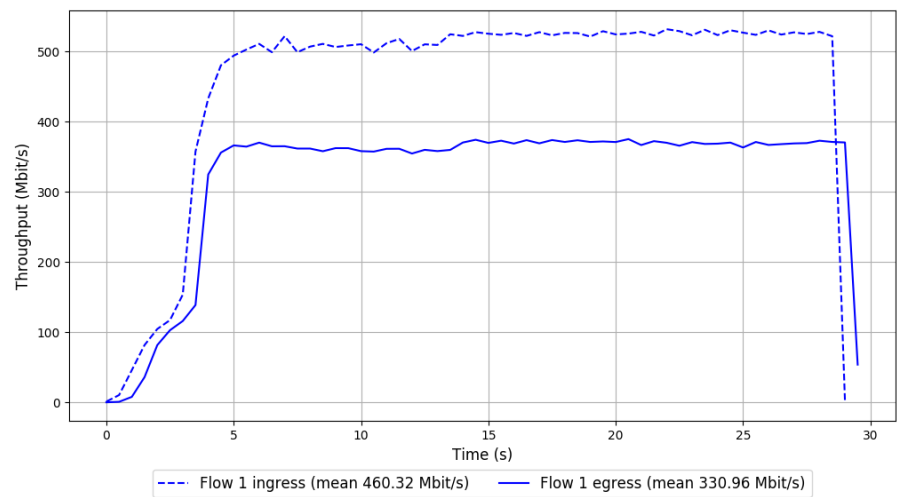
Run 3: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 475.80 Mbit/s)   Flow 1 egress (mean 339.34 Mbit/s)

Flow 1 (95th percentile 62.64 ms)

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-26 21:51:13
End at: 2019-03-26 21:51:44
Local clock offset: -1.915 ms
Remote clock offset: -40.507 ms


# Below is generated by plot.py at 2019-03-26 22:57:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.68 Mbit/s
95th percentile per-packet one-way delay: 89.304 ms
Loss rate: 24.71%
-- Flow 1:
Average throughput: 293.68 Mbit/s
95th percentile per-packet one-way delay: 89.304 ms
Loss rate: 24.71%
```
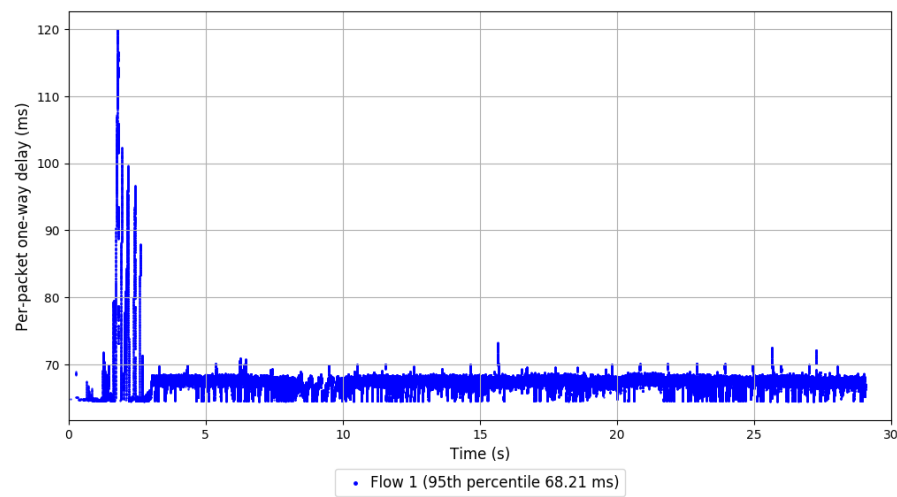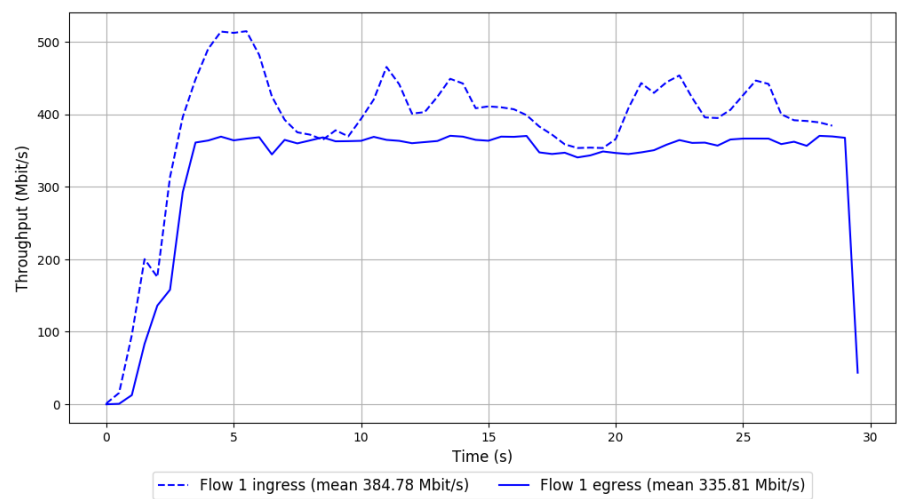
Run 4: Report of Indigo-MusesC5 — Data Link

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-26 22:24:26
End at: 2019-03-26 22:24:56
Local clock offset: 3.77 ms
Remote clock offset: -32.809 ms


# Below is generated by plot.py at 2019-03-26 22:57:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.96 Mbit/s
95th percentile per-packet one-way delay: 70.813 ms
Loss rate: 28.10%
-- Flow 1:
Average throughput: 330.96 Mbit/s
95th percentile per-packet one-way delay: 70.813 ms
Loss rate: 28.10%
```
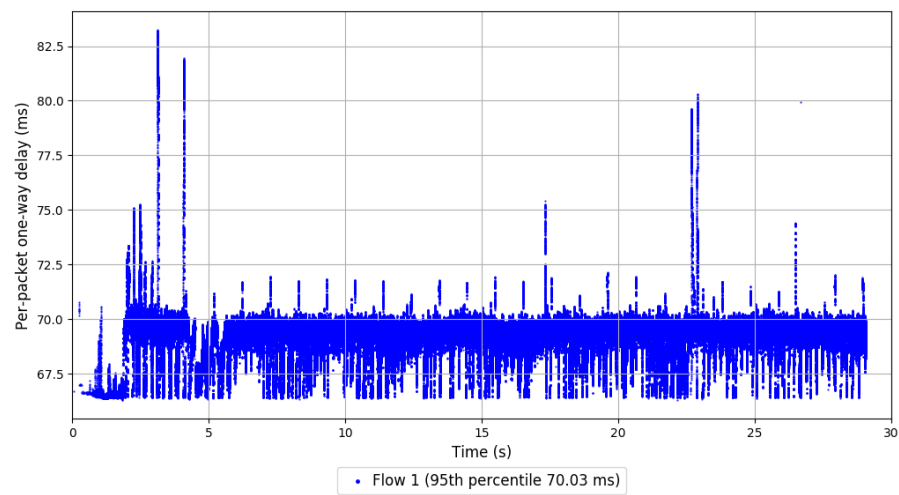
Run 5: Report of Indigo-MusesC5 — Data Link

```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-26 20:33:48
End at: 2019-03-26 20:34:18
Local clock offset: -0.43 ms
Remote clock offset: -34.719 ms


# Below is generated by plot.py at 2019-03-26 22:57:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.81 Mbit/s
95th percentile per-packet one-way delay: 68.214 ms
Loss rate: 12.72%
-- Flow 1:
Average throughput: 335.81 Mbit/s
95th percentile per-packet one-way delay: 68.214 ms
Loss rate: 12.72%
```
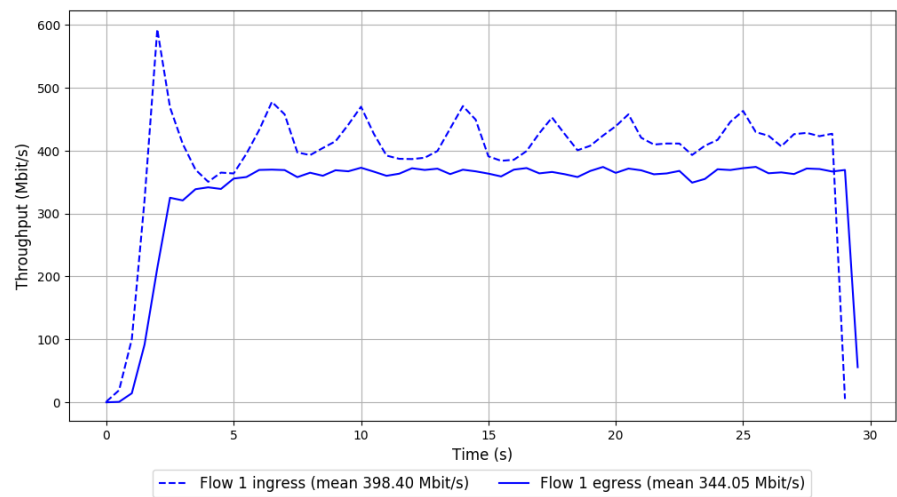
Run 1: Report of Indigo-MusesD — Data Link

```
Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-26 21:01:12
End at: 2019-03-26 21:01:42
Local clock offset: -1.384 ms
Remote clock offset: -33.436 ms


# Below is generated by plot.py at 2019-03-26 22:57:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 344.05 Mbit/s
95th percentile per-packet one-way delay: 70.026 ms
Loss rate: 13.63%
-- Flow 1:
Average throughput: 344.05 Mbit/s
95th percentile per-packet one-way delay: 70.026 ms
Loss rate: 13.63%
```
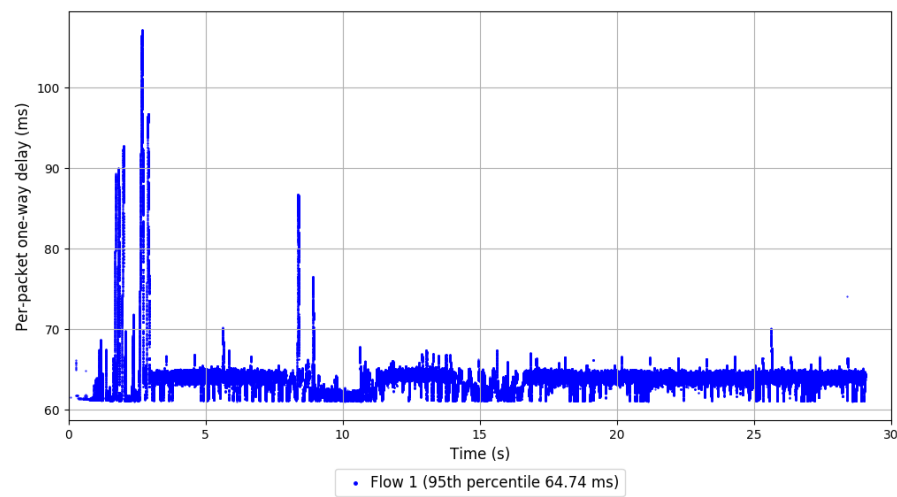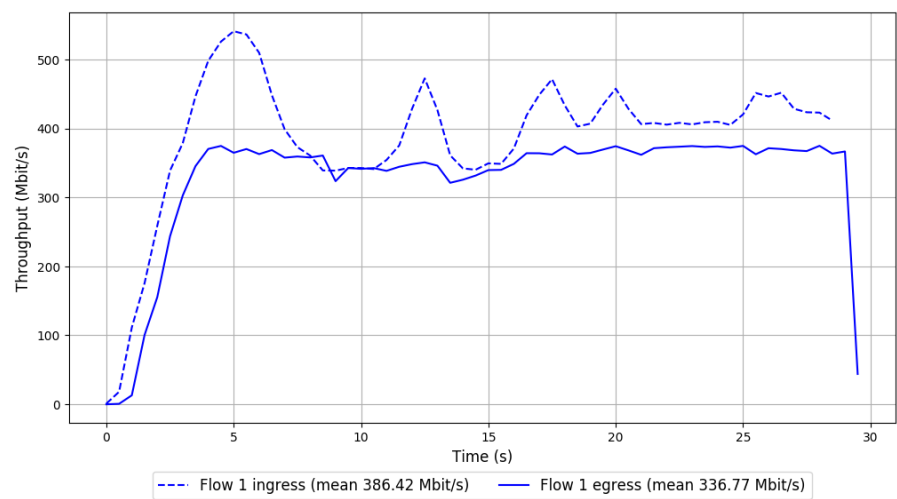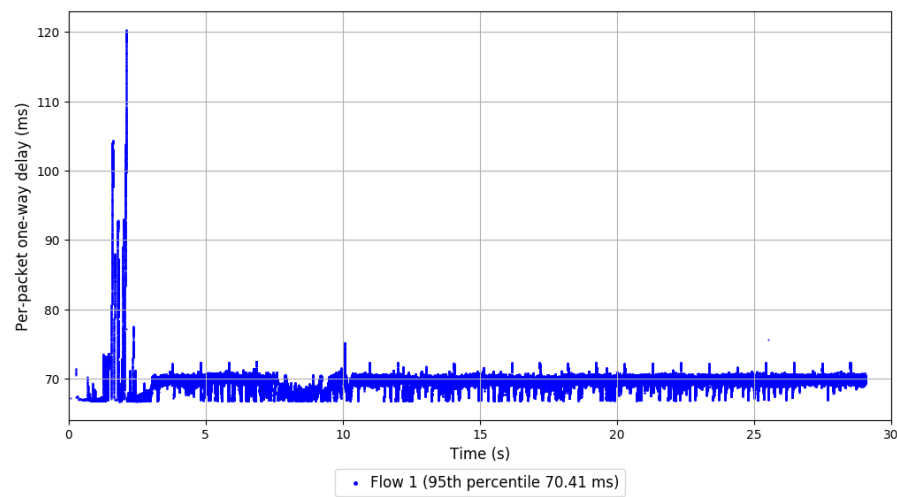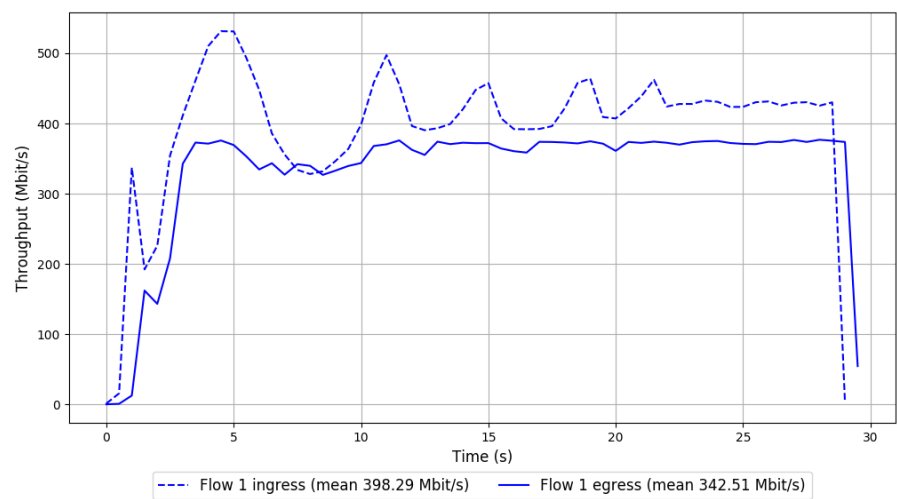
Run 2: Report of Indigo-MusesD — Data Link

```
Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-26 21:28:40
End at: 2019-03-26 21:29:10
Local clock offset: -3.691 ms
Remote clock offset: -39.986 ms


# Below is generated by plot.py at 2019-03-26 22:57:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.77 Mbit/s
95th percentile per-packet one-way delay: 64.743 ms
Loss rate: 12.84%
-- Flow 1:
Average throughput: 336.77 Mbit/s
95th percentile per-packet one-way delay: 64.743 ms
Loss rate: 12.84%
```

Run 3: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 386.42 Mbit/s)   Flow 1 egress (mean 336.77 Mbit/s)

Flow 1 (95th percentile 64.74 ms)

```
Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-26 21:56:15
End at: 2019-03-26 21:56:45
Local clock offset: -0.803 ms
Remote clock offset: -35.159 ms


# Below is generated by plot.py at 2019-03-26 22:58:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.51 Mbit/s
95th percentile per-packet one-way delay: 70.411 ms
Loss rate: 14.00%
-- Flow 1:
Average throughput: 342.51 Mbit/s
95th percentile per-packet one-way delay: 70.411 ms
Loss rate: 14.00%
```
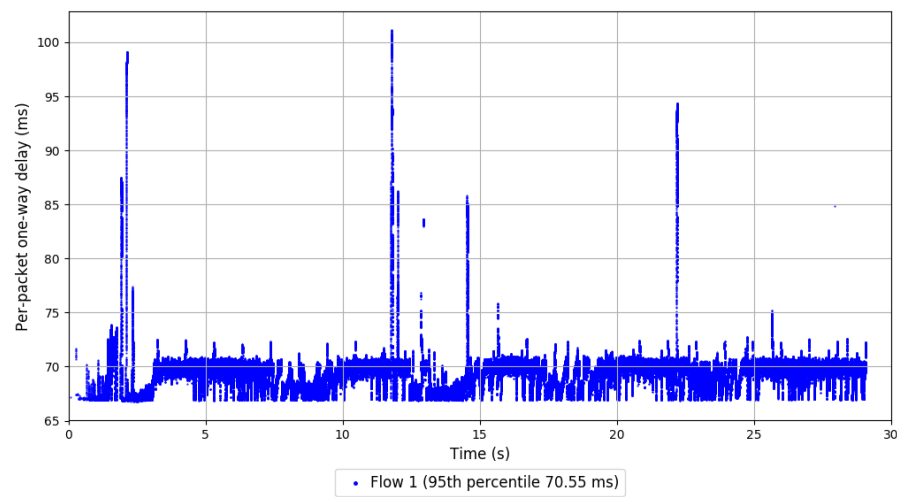
Run 4: Report of Indigo-MusesD — Data Link

```
Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-26 22:29:26
End at: 2019-03-26 22:29:56
Local clock offset: 4.564 ms
Remote clock offset: -35.477 ms


# Below is generated by plot.py at 2019-03-26 23:00:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.45 Mbit/s
95th percentile per-packet one-way delay: 70.554 ms
Loss rate: 11.88%
-- Flow 1:
Average throughput: 335.45 Mbit/s
95th percentile per-packet one-way delay: 70.554 ms
Loss rate: 11.88%
```
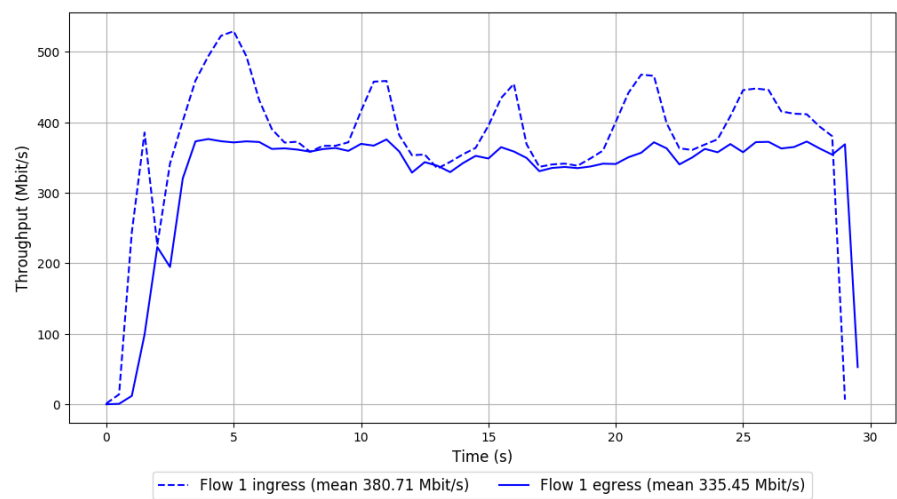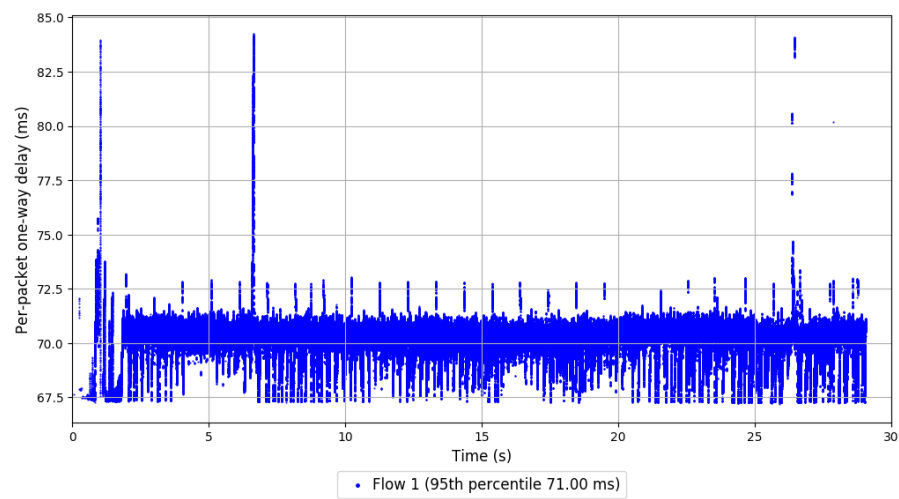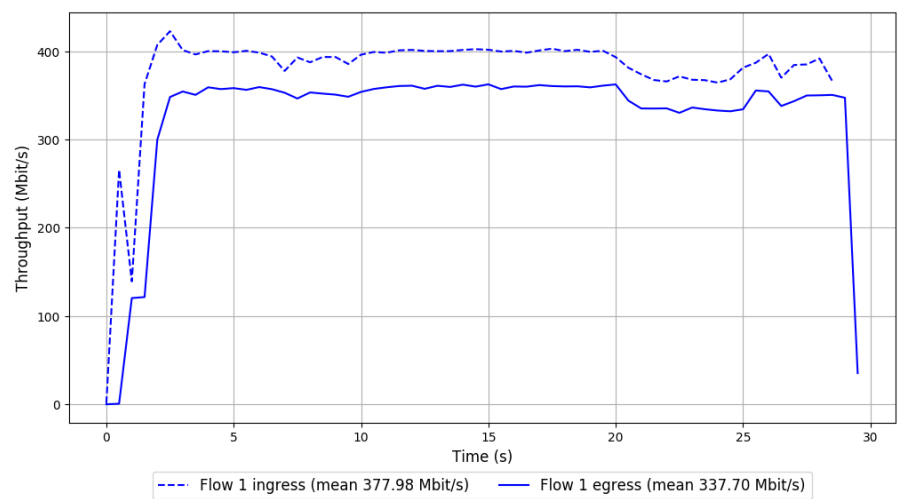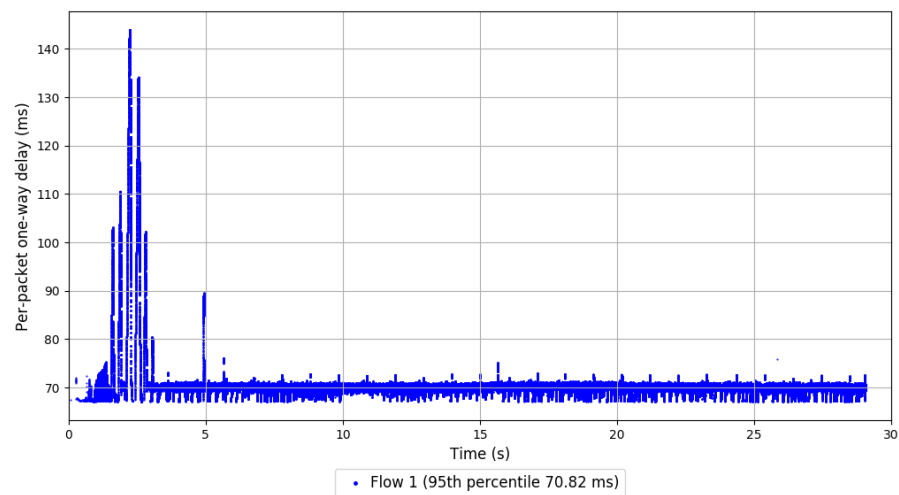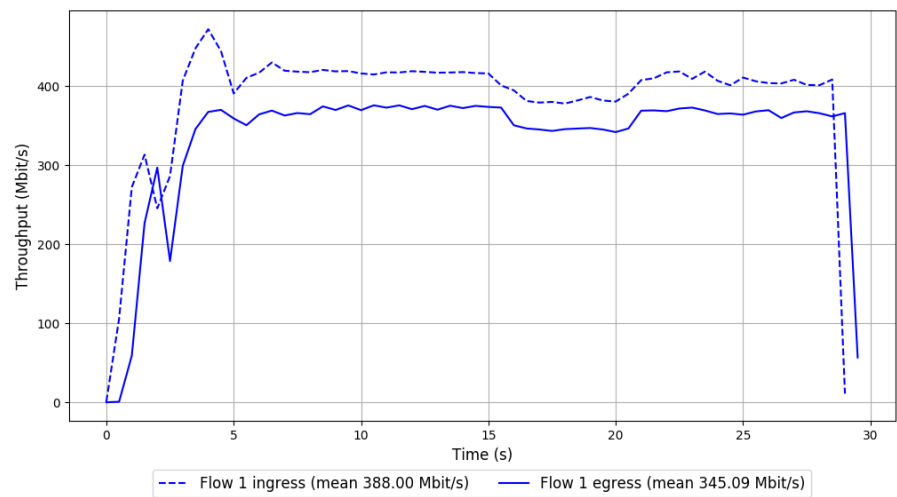
Run 5: Report of Indigo-MusesD — Data Link

```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-26 20:27:18
End at: 2019-03-26 20:27:48
Local clock offset: 0.017 ms
Remote clock offset: -32.293 ms


# Below is generated by plot.py at 2019-03-26 23:01:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.70 Mbit/s
95th percentile per-packet one-way delay: 70.998 ms
Loss rate: 10.64%
-- Flow 1:
Average throughput: 337.70 Mbit/s
95th percentile per-packet one-way delay: 70.998 ms
Loss rate: 10.64%
```

Run 1: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 377.98 Mbit/s)   Flow 1 egress (mean 337.70 Mbit/s)

Flow 1 (95th percentile 71.00 ms)

```
Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-26 20:54:43
End at: 2019-03-26 20:55:13
Local clock offset: -0.936 ms
Remote clock offset: -34.695 ms


# Below is generated by plot.py at 2019-03-26 23:01:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 345.09 Mbit/s
95th percentile per-packet one-way delay: 70.820 ms
Loss rate: 11.05%
-- Flow 1:
Average throughput: 345.09 Mbit/s
95th percentile per-packet one-way delay: 70.820 ms
Loss rate: 11.05%
```

Run 2: Report of Indigo-MusesT — Data Link

```
Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-26 21:22:11
End at: 2019-03-26 21:22:41
Local clock offset: -2.278 ms
Remote clock offset: -29.678 ms


# Below is generated by plot.py at 2019-03-26 23:01:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 333.52 Mbit/s
95th percentile per-packet one-way delay: 72.934 ms
Loss rate: 10.11%
-- Flow 1:
Average throughput: 333.52 Mbit/s
95th percentile per-packet one-way delay: 72.934 ms
Loss rate: 10.11%
```
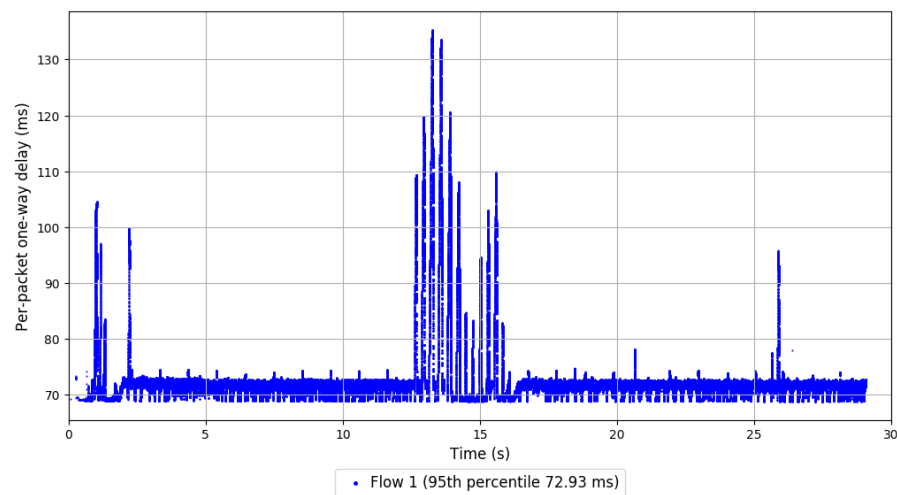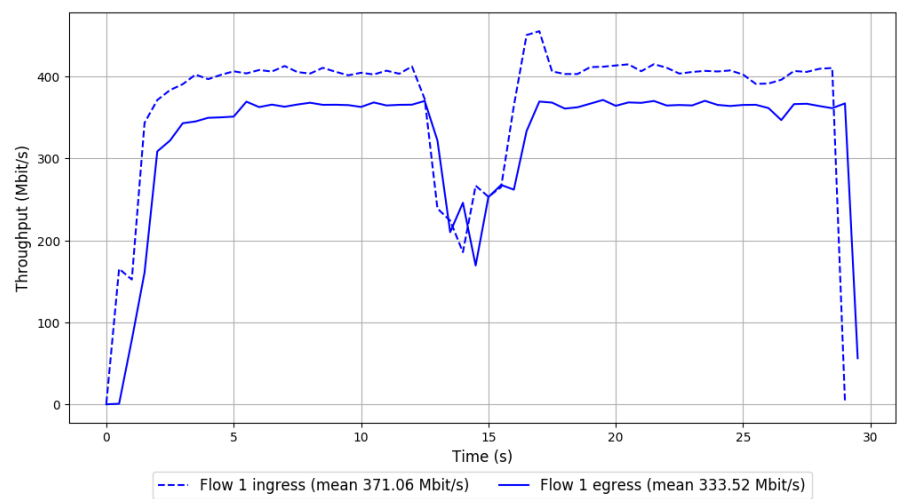
Run 3: Report of Indigo-MusesT — Data Link

```
Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-26 21:49:47
End at: 2019-03-26 21:50:17
Local clock offset: -2.523 ms
Remote clock offset: -34.809 ms


# Below is generated by plot.py at 2019-03-26 23:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 351.65 Mbit/s
95th percentile per-packet one-way delay: 67.564 ms
Loss rate: 10.84%
-- Flow 1:
Average throughput: 351.65 Mbit/s
95th percentile per-packet one-way delay: 67.564 ms
Loss rate: 10.84%
```
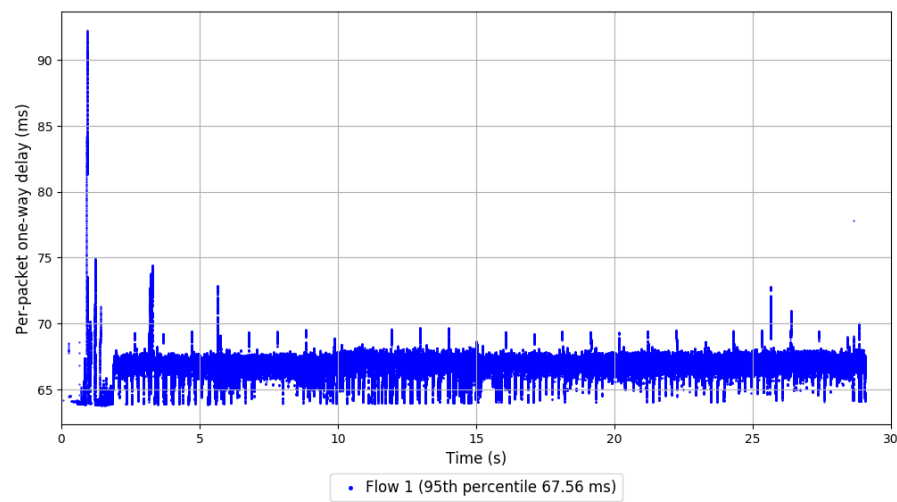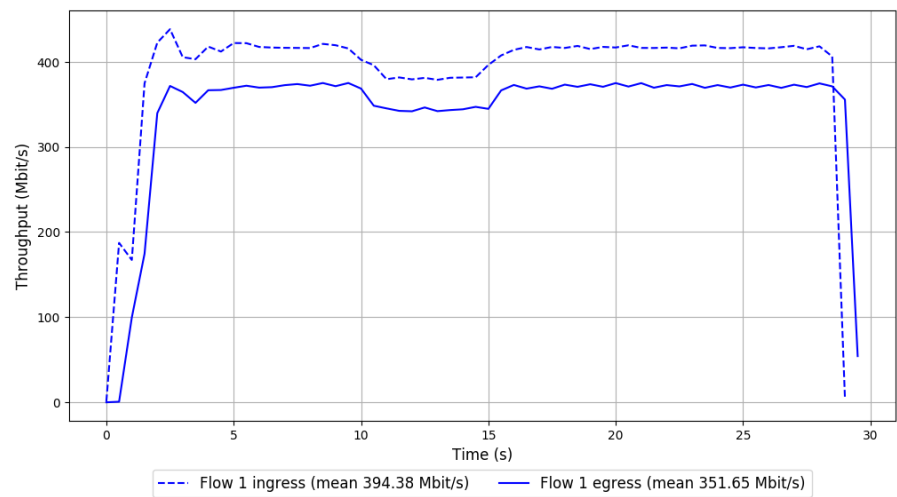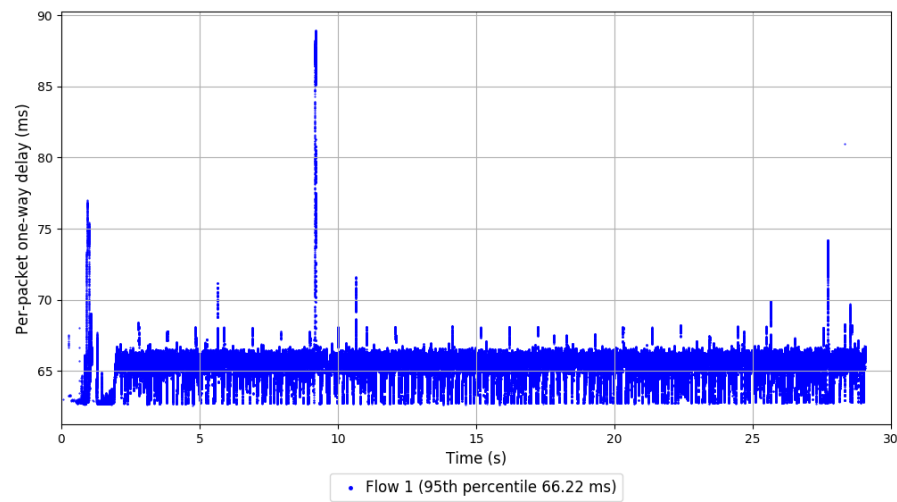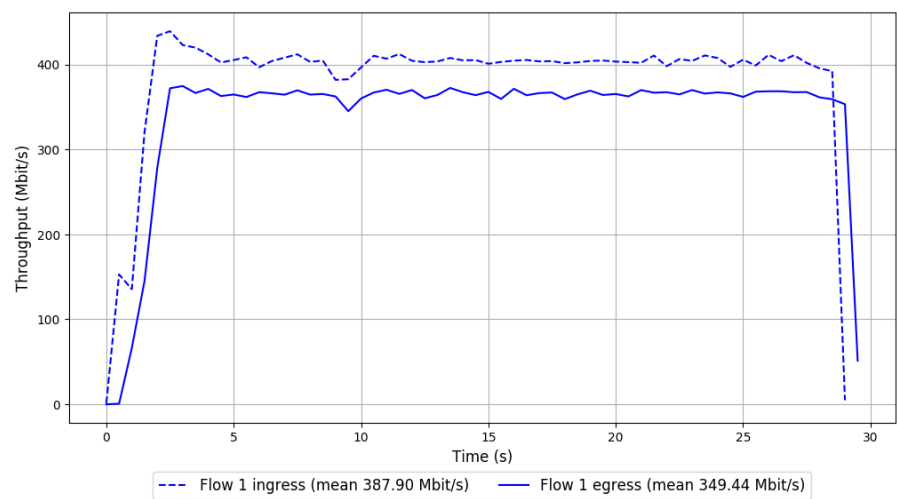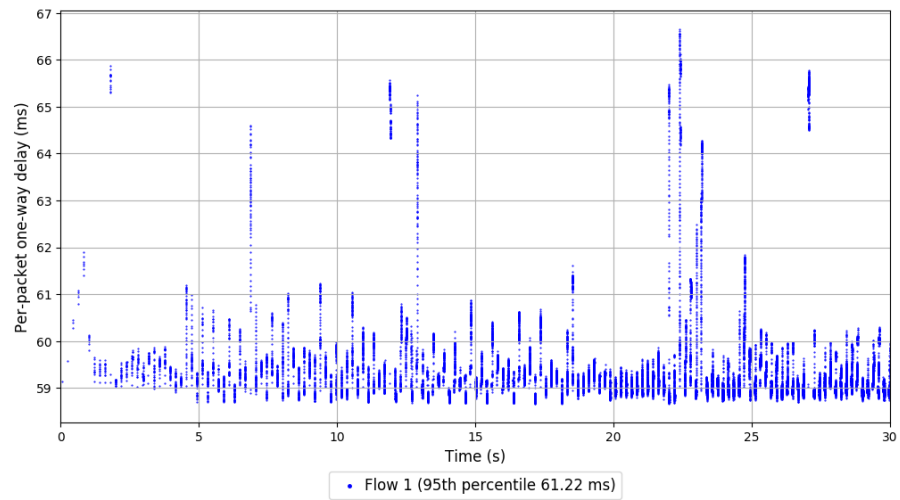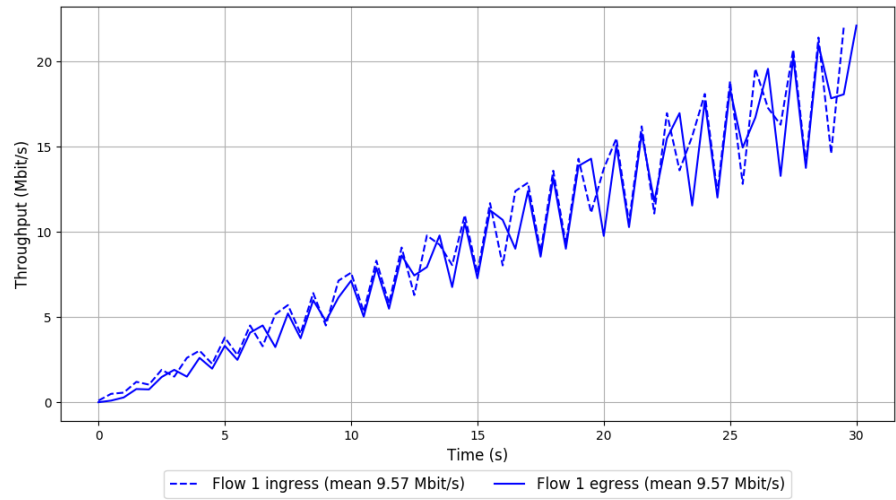
Run 4: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 394.38 Mbit/s)   Flow 1 egress (mean 351.65 Mbit/s)

Flow 1 (95th percentile 67.56 ms)

```
Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-26 22:22:59
End at: 2019-03-26 22:23:29
Local clock offset: 3.646 ms
Remote clock offset: -37.301 ms


# Below is generated by plot.py at 2019-03-26 23:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 349.44 Mbit/s
95th percentile per-packet one-way delay: 66.221 ms
Loss rate: 9.90%
-- Flow 1:
Average throughput: 349.44 Mbit/s
95th percentile per-packet one-way delay: 66.221 ms
Loss rate: 9.90%
```

Run 5: Report of Indigo-MusesT — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2019-03-26 20:38:59
End at: 2019-03-26 20:39:29
Local clock offset: 0.162 ms
Remote clock offset: -39.587 ms


# Below is generated by plot.py at 2019-03-26 23:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 61.223 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 61.223 ms
Loss rate: 0.00%
```
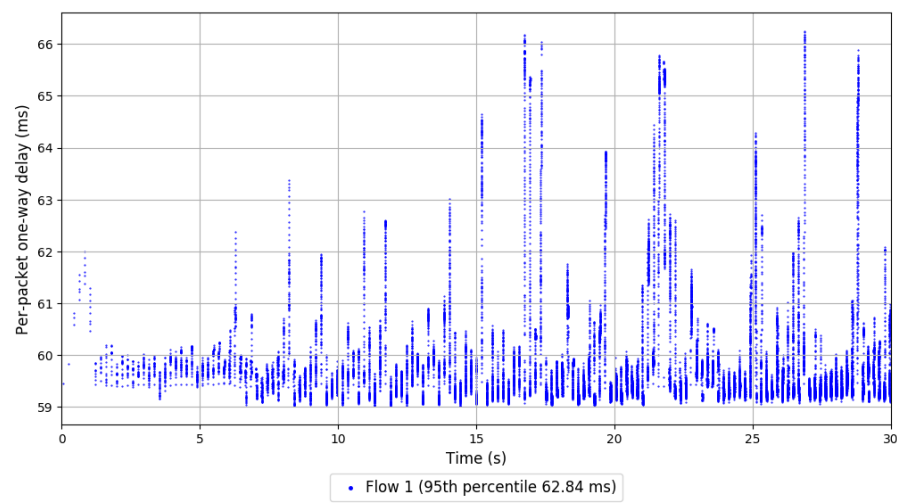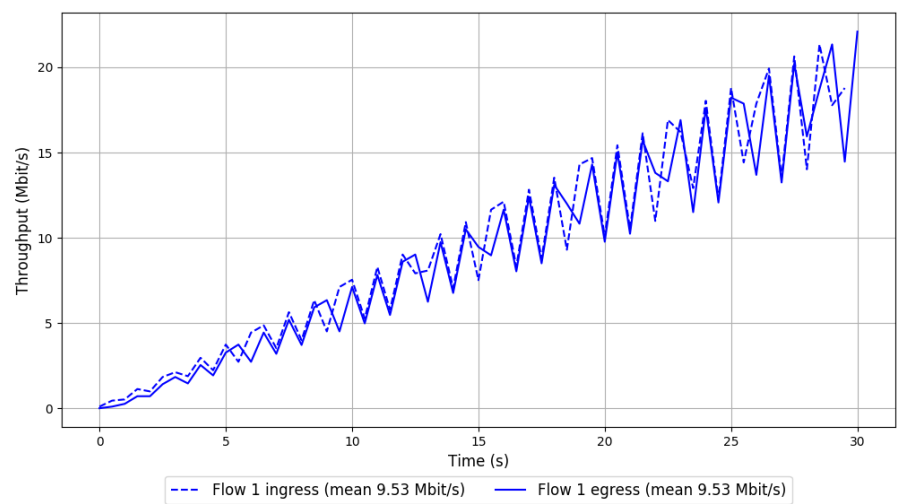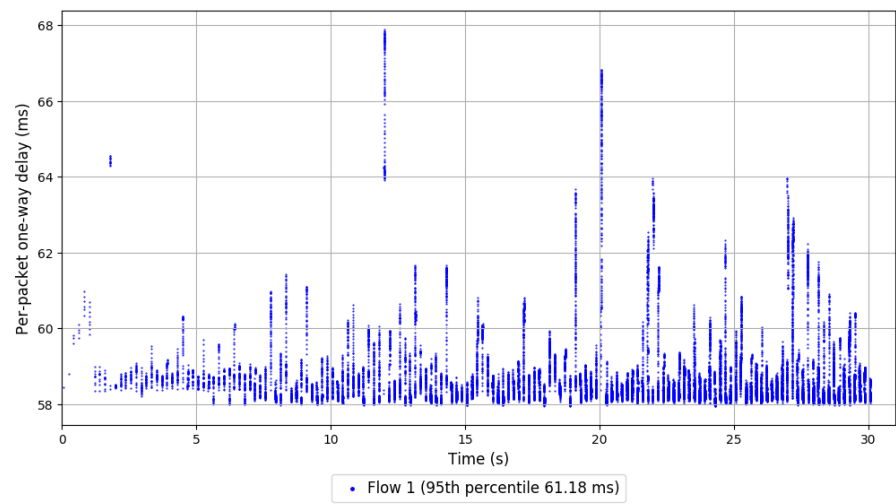
Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2019-03-26 21:06:25
End at: 2019-03-26 21:06:55
Local clock offset: -0.294 ms
Remote clock offset: -39.829 ms


# Below is generated by plot.py at 2019-03-26 23:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 62.835 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 62.835 ms
Loss rate: 0.00%
```

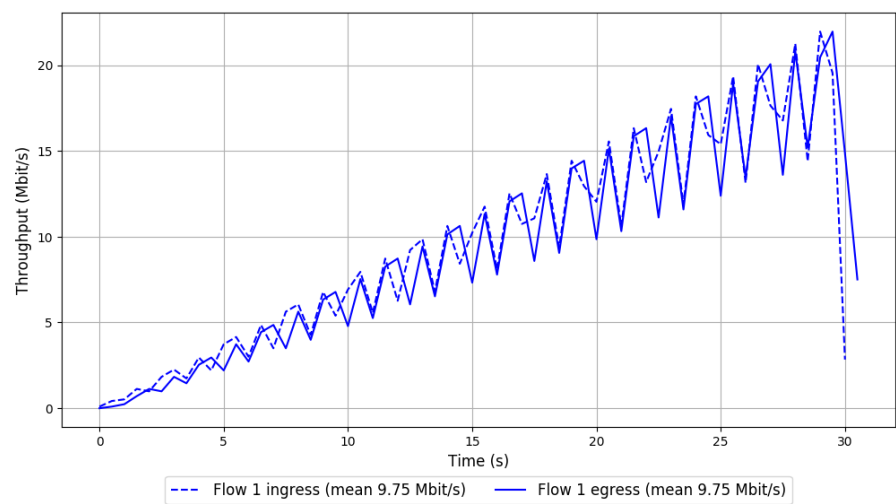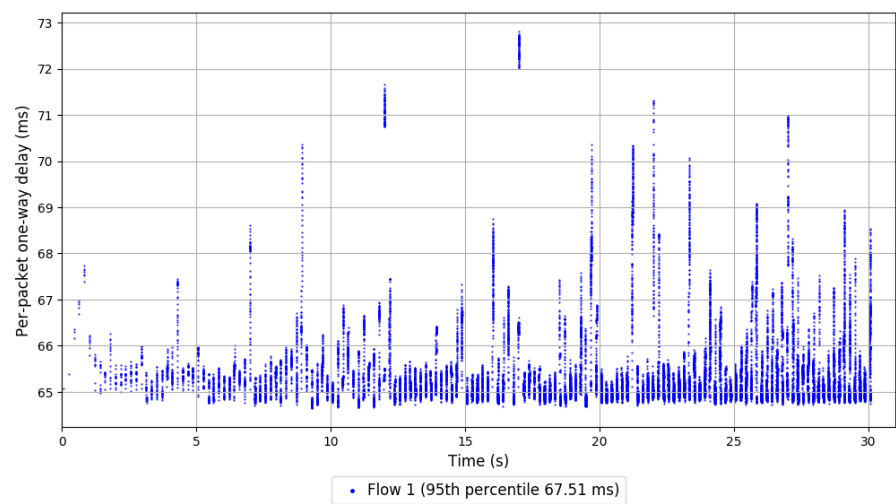Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2019-03-26 21:33:52
End at: 2019-03-26 21:34:22
Local clock offset: -4.065 ms
Remote clock offset: -40.144 ms


# Below is generated by plot.py at 2019-03-26 23:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 61.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 61.181 ms
Loss rate: 0.00%
```

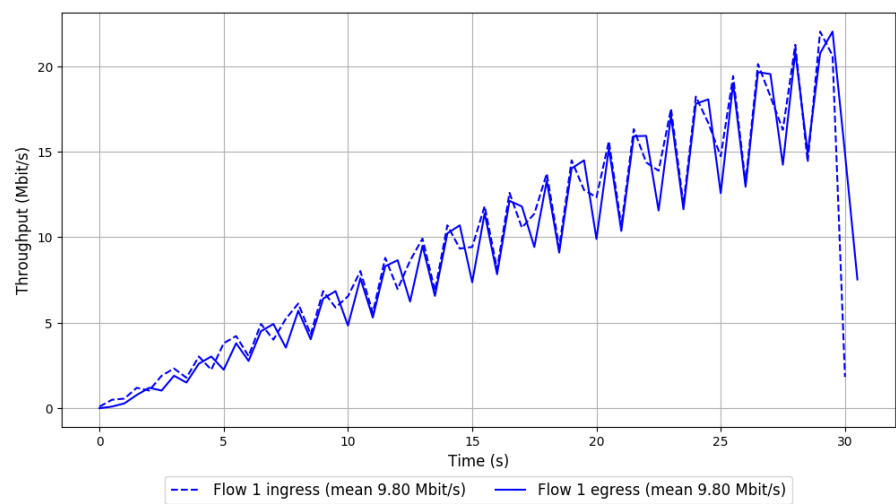Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2019-03-26 22:01:28
End at: 2019-03-26 22:01:58
Local clock offset: 0.825 ms
Remote clock offset: -34.176 ms


# Below is generated by plot.py at 2019-03-26 23:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.80 Mbit/s
95th percentile per-packet one-way delay: 67.514 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.80 Mbit/s
95th percentile per-packet one-way delay: 67.514 ms
Loss rate: 0.00%
```

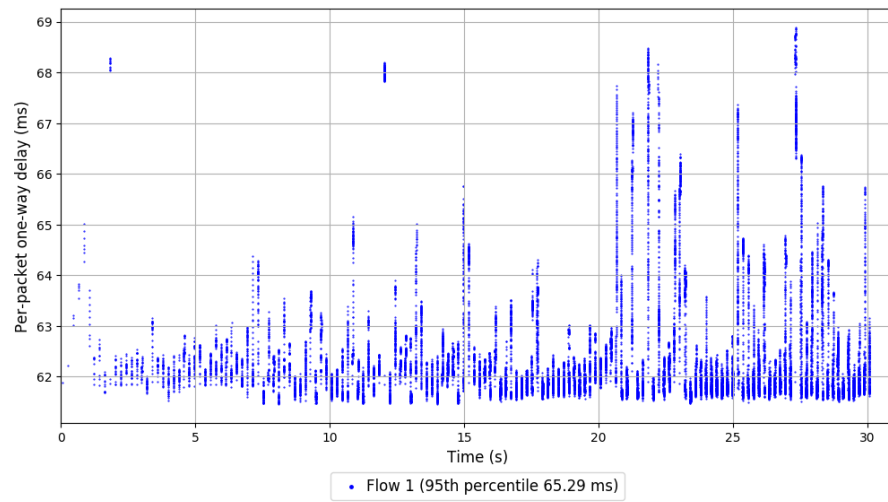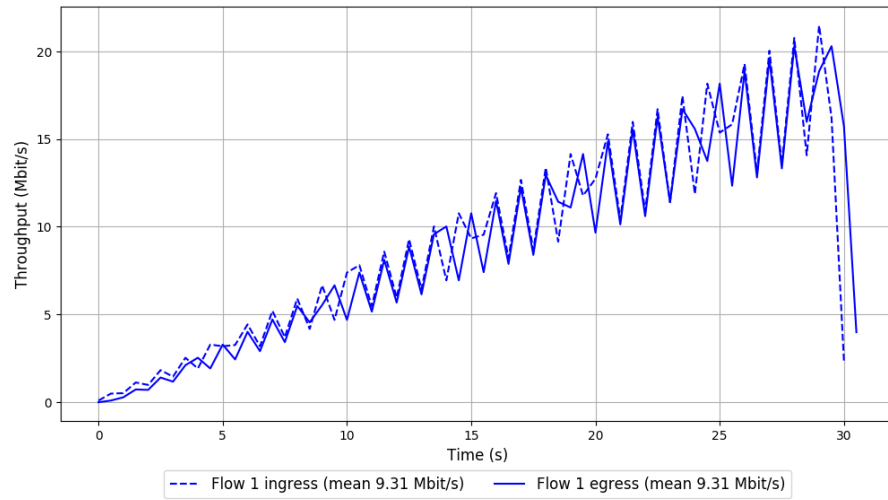## Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2019-03-26 22:34:38
End at: 2019-03-26 22:35:08
Local clock offset: 5.082 ms
Remote clock offset: -40.901 ms


# Below is generated by plot.py at 2019-03-26 23:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 65.294 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 65.294 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 9.31 Mbit/s) --- Flow 1 egress (mean 9.31 Mbit/s)
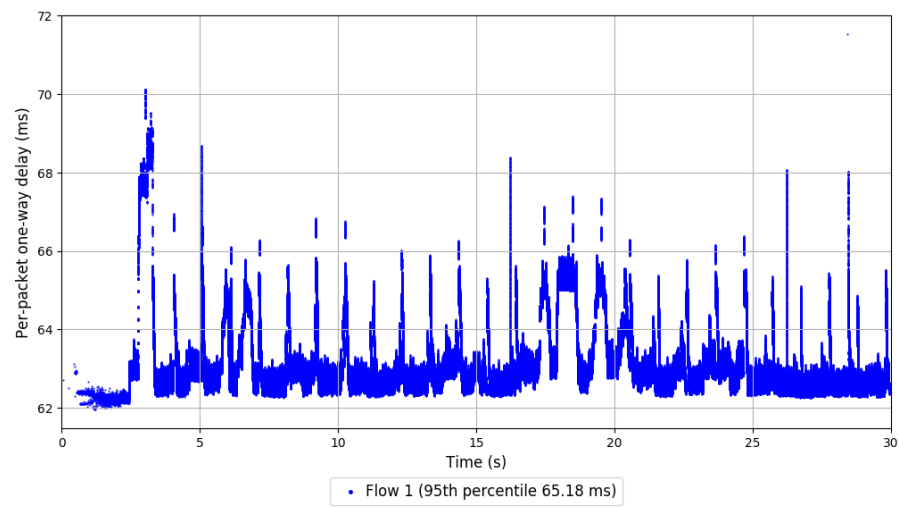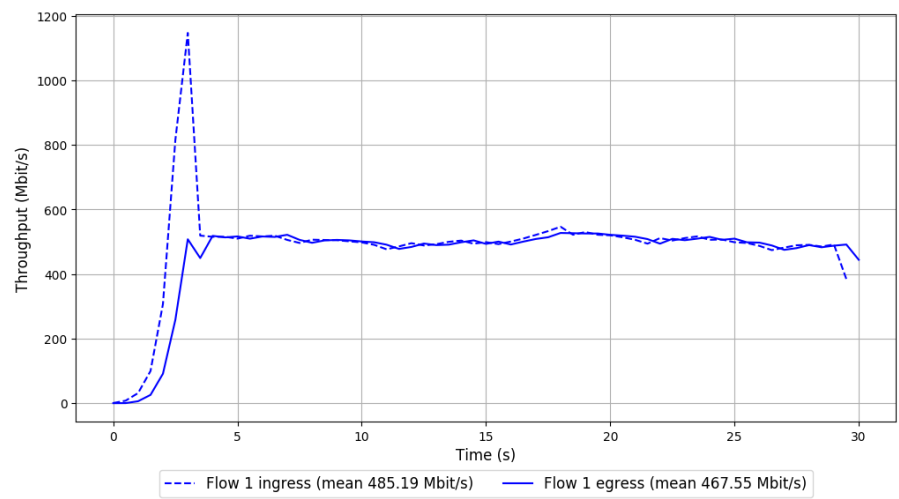

Flow 1 (95th percentile 65.29 ms)

```
Run 1: Statistics of PCC-Allegro

Start at: 2019-03-26 20:10:58
End at: 2019-03-26 20:11:28
Local clock offset: 5.566 ms
Remote clock offset: -39.288 ms

# Below is generated by plot.py at 2019-03-26 23:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 467.55 Mbit/s
95th percentile per-packet one-way delay: 65.182 ms
Loss rate: 3.64%
-- Flow 1:
Average throughput: 467.55 Mbit/s
95th percentile per-packet one-way delay: 65.182 ms
Loss rate: 3.64%
```
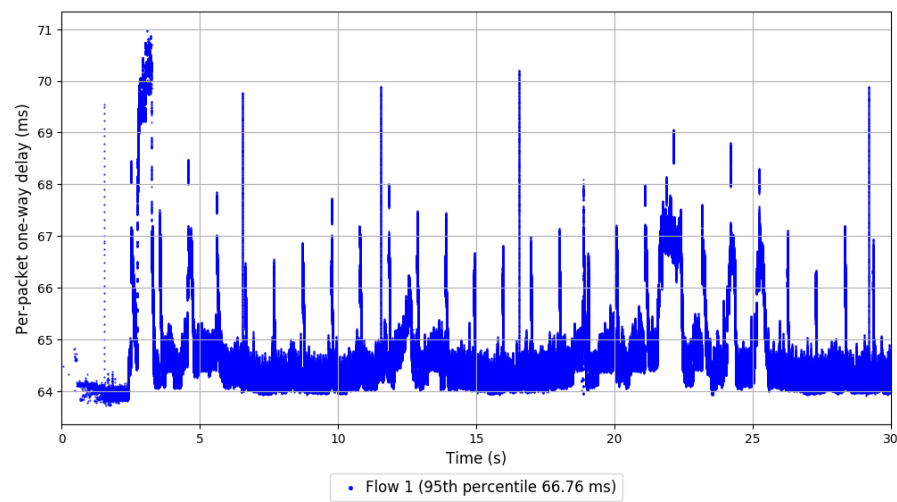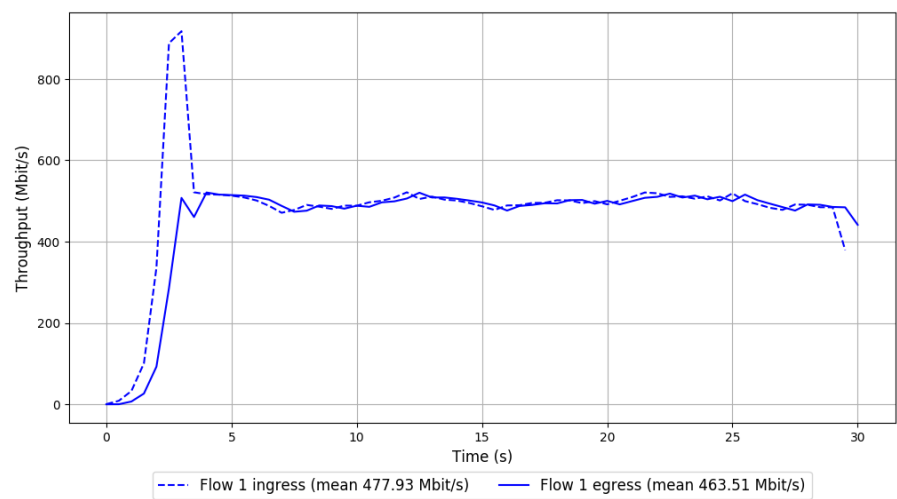
Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2019-03-26 20:44:08
End at: 2019-03-26 20:44:38
Local clock offset: -0.119 ms
Remote clock offset: -34.399 ms


# Below is generated by plot.py at 2019-03-26 23:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 463.51 Mbit/s
95th percentile per-packet one-way delay: 66.764 ms
Loss rate: 3.02%
-- Flow 1:
Average throughput: 463.51 Mbit/s
95th percentile per-packet one-way delay: 66.764 ms
Loss rate: 3.02%
```

Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2019-03-26 21:11:33
End at: 2019-03-26 21:12:03
Local clock offset: 1.766 ms
Remote clock offset: -39.944 ms


# Below is generated by plot.py at 2019-03-26 23:06:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 471.86 Mbit/s
95th percentile per-packet one-way delay: 62.855 ms
Loss rate: 3.14%
-- Flow 1:
Average throughput: 471.86 Mbit/s
95th percentile per-packet one-way delay: 62.855 ms
Loss rate: 3.14%
```
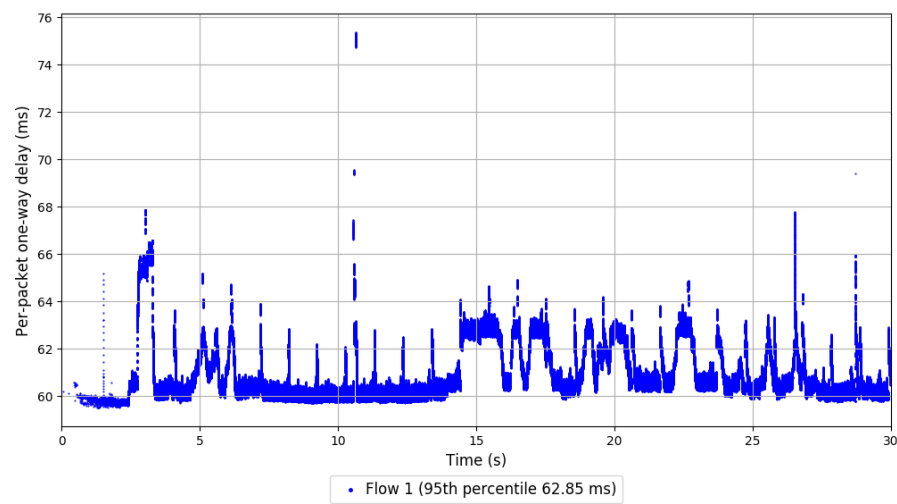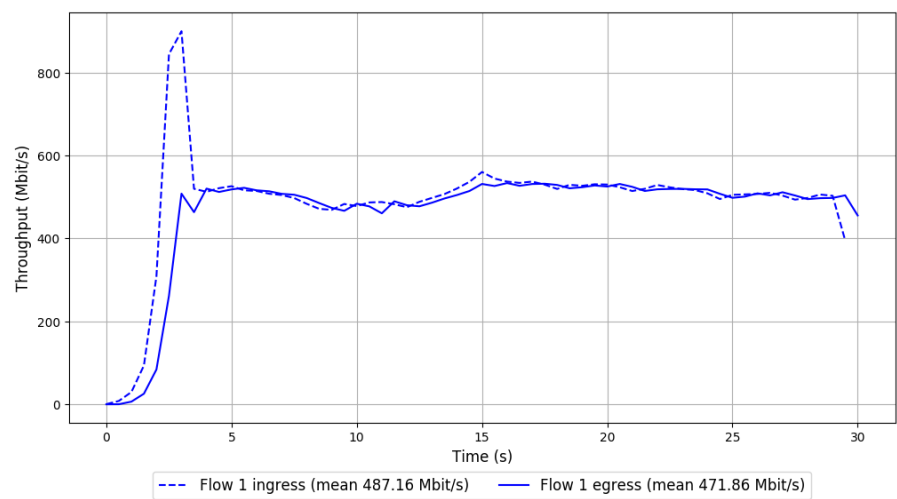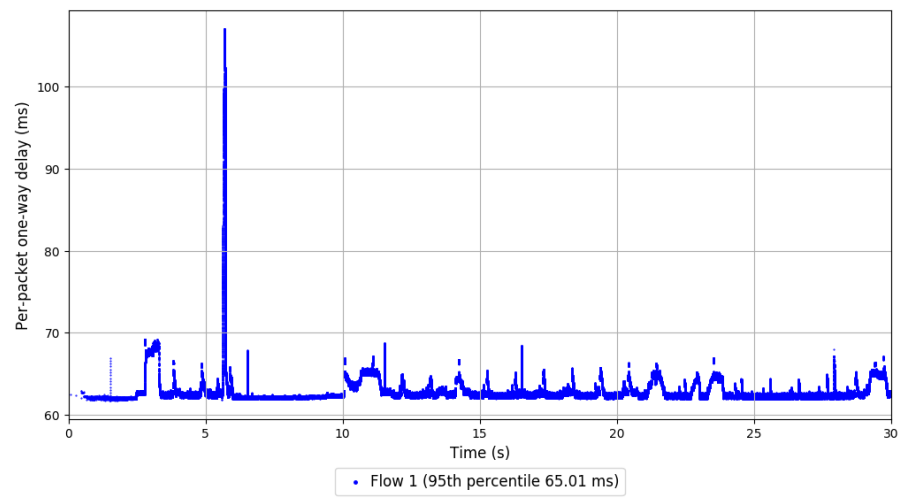
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 487.16 Mbit/s) --- Flow 1 egress (mean 471.86 Mbit/s)

• Flow 1 (95th percentile 62.85 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2019-03-26 21:39:03
End at: 2019-03-26 21:39:33
Local clock offset: -5.095 ms
Remote clock offset: -39.589 ms

# Below is generated by plot.py at 2019-03-26 23:06:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 458.64 Mbit/s
95th percentile per-packet one-way delay: 65.010 ms
Loss rate: 3.75%
-- Flow 1:
Average throughput: 458.64 Mbit/s
95th percentile per-packet one-way delay: 65.010 ms
Loss rate: 3.75%
```
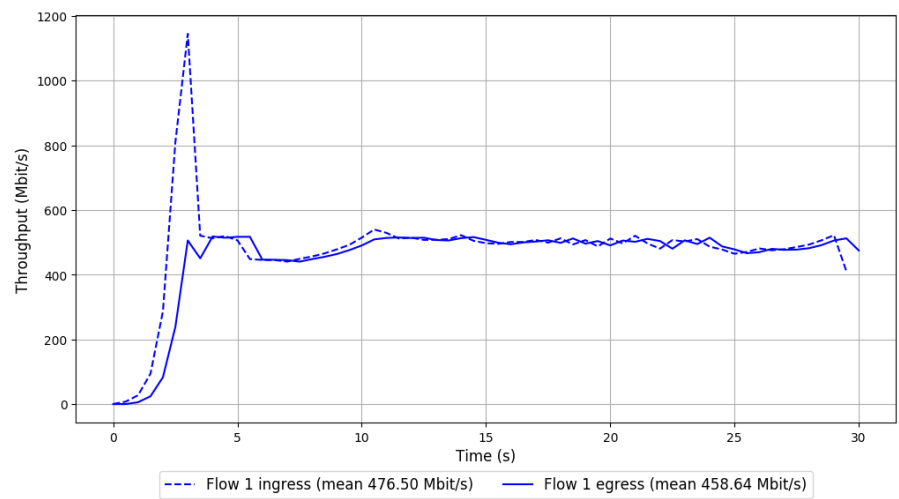
Run 4: Report of PCC-Allegro — Data Link

```
Run 5: Statistics of PCC-Allegro

Start at: 2019-03-26 22:06:36
End at: 2019-03-26 22:07:06
Local clock offset: 0.152 ms
Remote clock offset: -33.166 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 475.71 Mbit/s
95th percentile per-packet one-way delay: 70.210 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 475.71 Mbit/s
95th percentile per-packet one-way delay: 70.210 ms
Loss rate: 2.84%
```
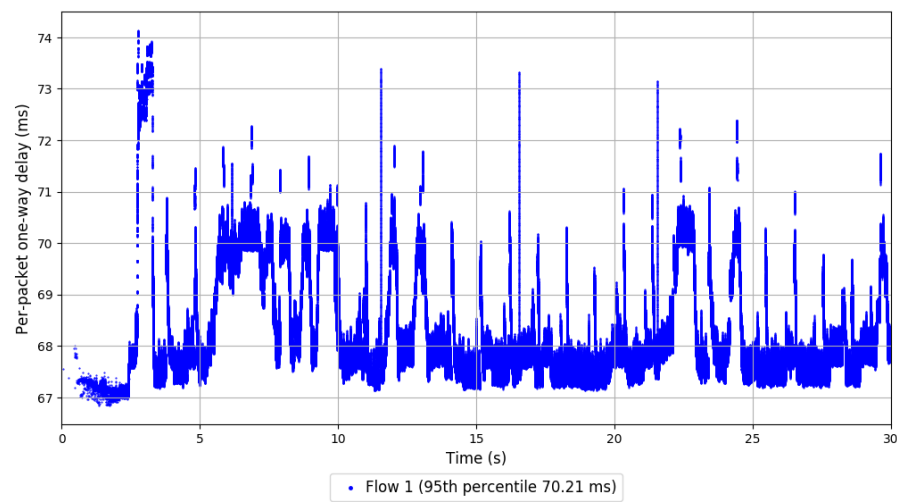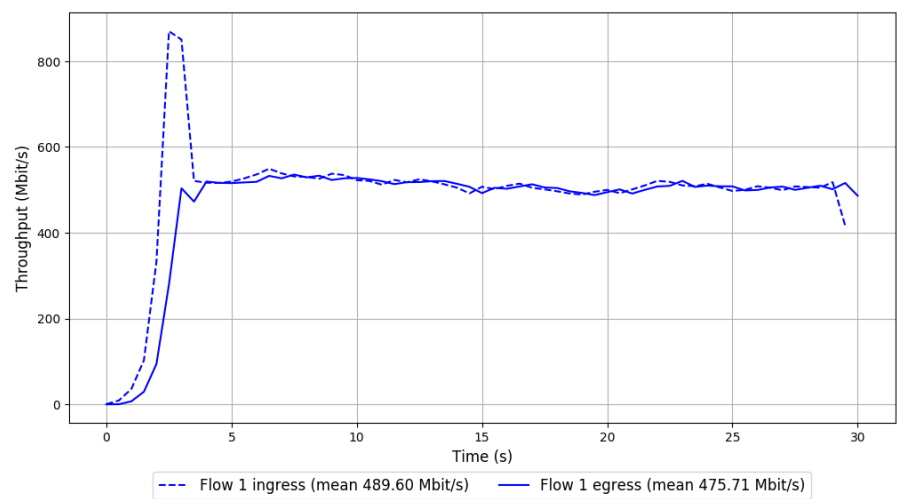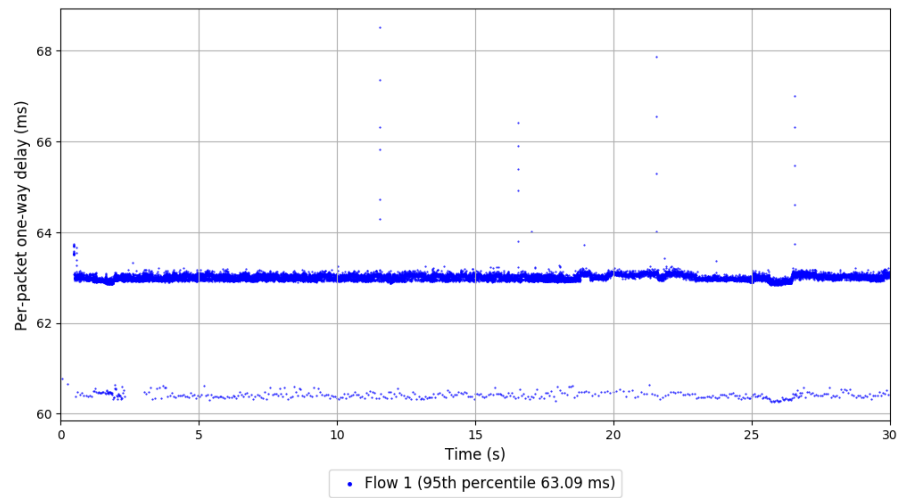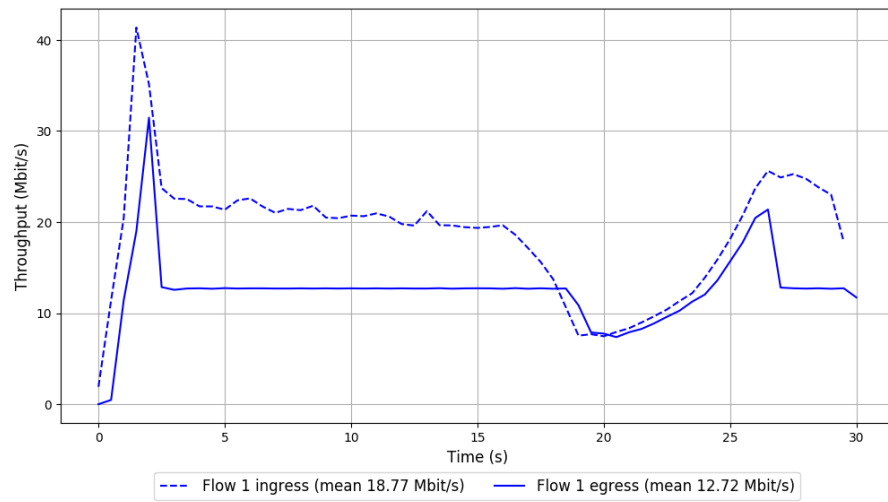
Run 5: Report of PCC-Allegro — Data Link

```
Run 1: Statistics of PCC-Expr

Start at: 2019-03-26 20:37:47
End at: 2019-03-26 20:38:17
Local clock offset: -0.641 ms
Remote clock offset: -38.797 ms

# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.72 Mbit/s
95th percentile per-packet one-way delay: 63.093 ms
Loss rate: 32.21%
-- Flow 1:
Average throughput: 12.72 Mbit/s
95th percentile per-packet one-way delay: 63.093 ms
Loss rate: 32.21%
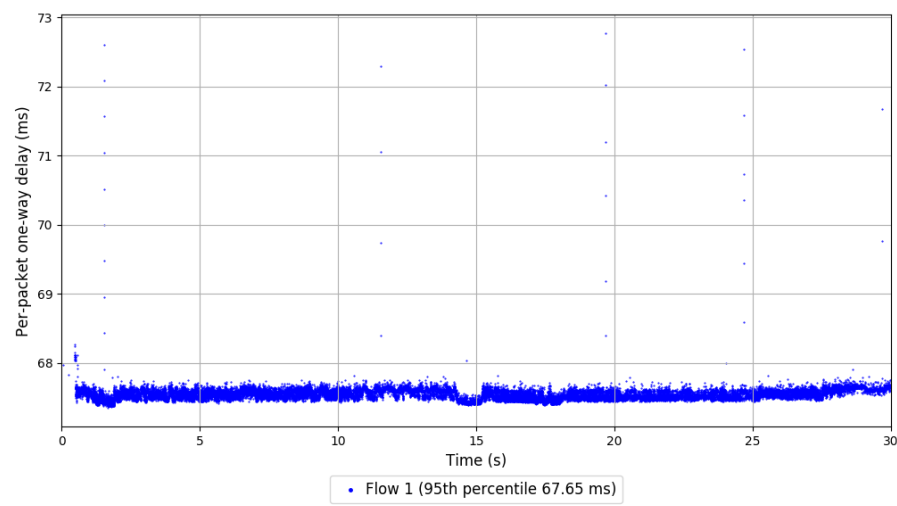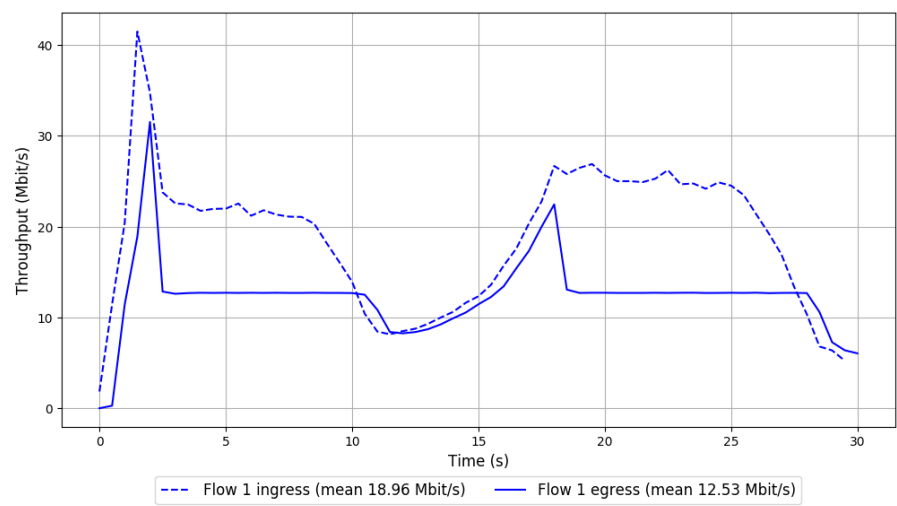```

Run 1: Report of PCC-Expr — Data Link

```
Run 2: Statistics of PCC-Expr

Start at: 2019-03-26 21:05:13
End at: 2019-03-26 21:05:43
Local clock offset: -0.885 ms
Remote clock offset: -34.765 ms

Below is generated by plot.py at 2019-03-26 23:07:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 67.648 ms
Loss rate: 33.93%
-- Flow 1:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 67.648 ms
Loss rate: 33.93%
```
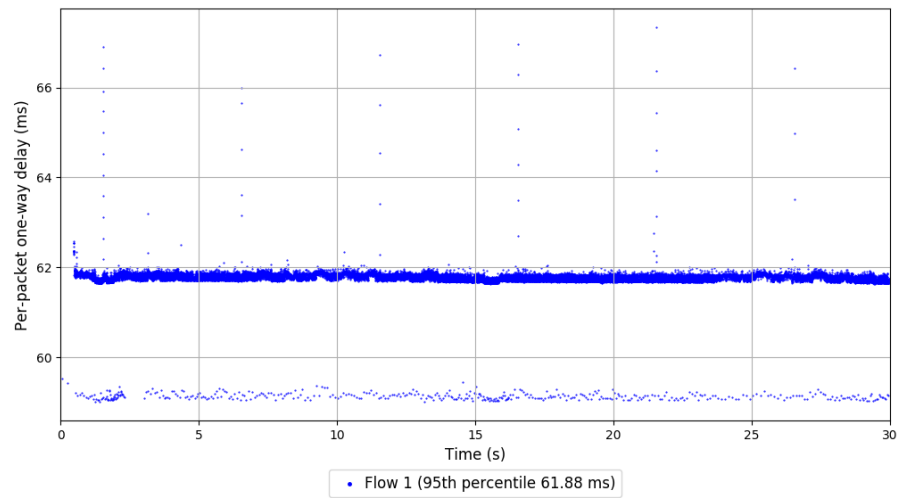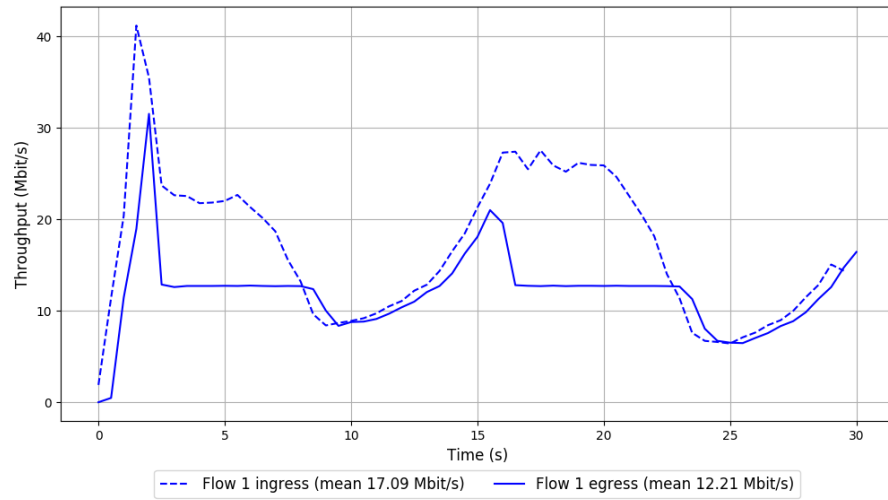
Run 2: Report of PCC-Expr — Data Link

```
Run 3: Statistics of PCC-Expr

Start at: 2019-03-26 21:32:40
End at: 2019-03-26 21:33:10
Local clock offset: -5.024 ms
Remote clock offset: -40.217 ms

Below is generated by plot.py at 2019-03-26 23:07:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.21 Mbit/s
95th percentile per-packet one-way delay: 61.882 ms
Loss rate: 28.56%
-- Flow 1:
Average throughput: 12.21 Mbit/s
95th percentile per-packet one-way delay: 61.882 ms
Loss rate: 28.56%
```
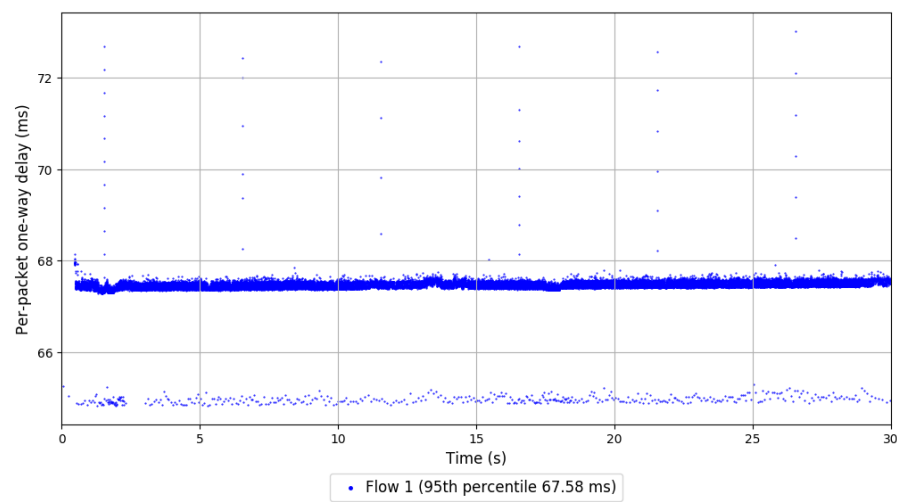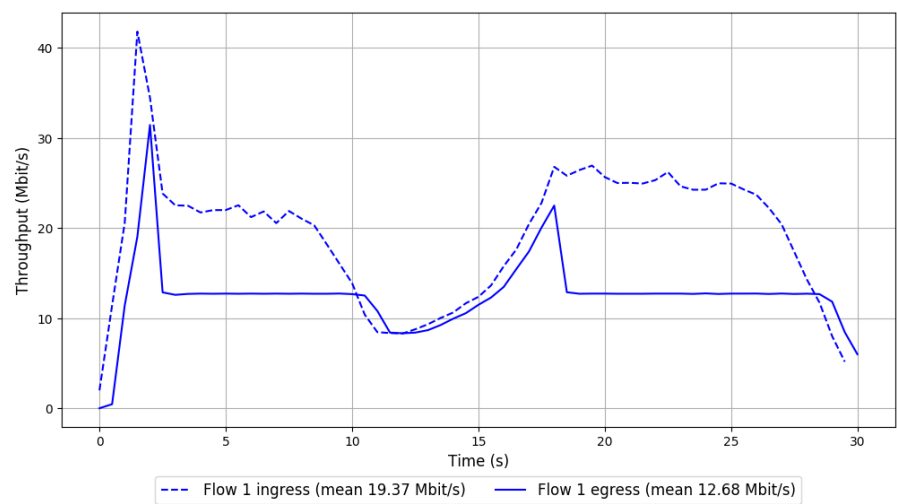
## Run 3: Report of PCC-Expr — Data Link

```
Run 4: Statistics of PCC-Expr

Start at: 2019-03-26 22:00:16
End at: 2019-03-26 22:00:46
Local clock offset: -0.014 ms
Remote clock offset: -34.776 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 67.576 ms
Loss rate: 34.56%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 67.576 ms
Loss rate: 34.56%
```

Run 4: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 19.37 Mbit/s)   Flow 1 egress (mean 12.68 Mbit/s)
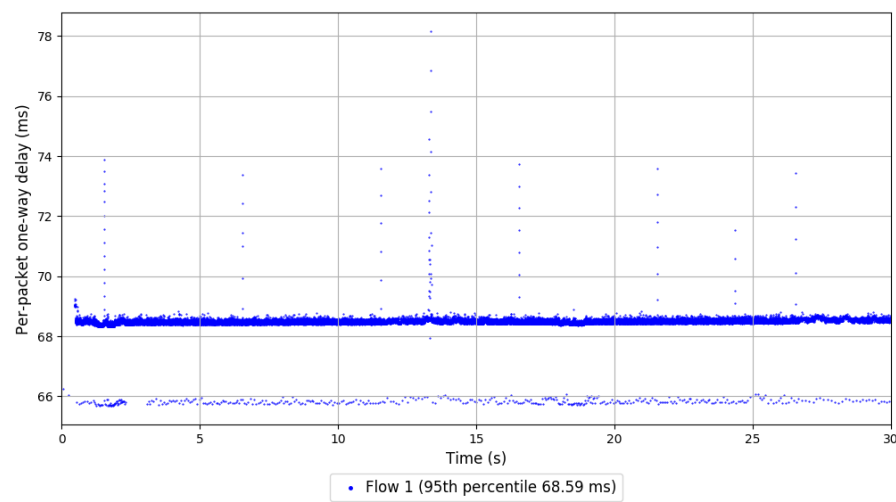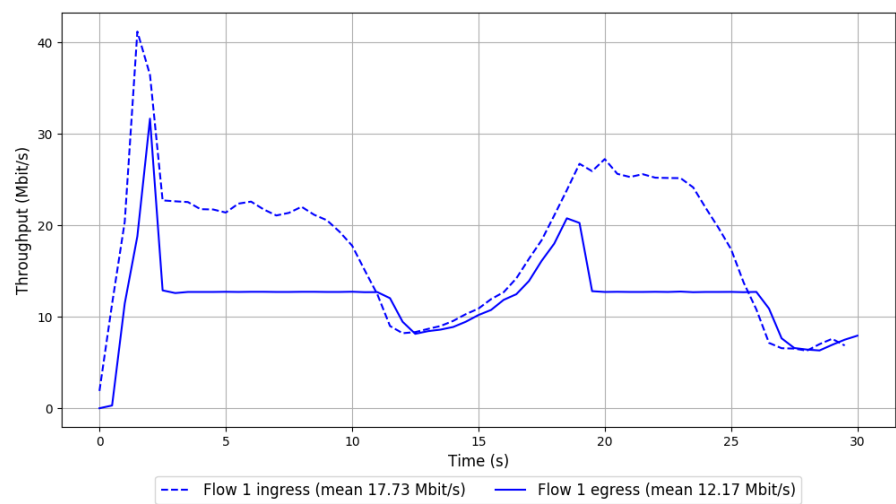

Flow 1 (95th percentile 67.58 ms)

```
Run 5: Statistics of PCC-Expr

Start at: 2019-03-26 22:33:26
End at: 2019-03-26 22:33:56
Local clock offset: 5.042 ms
Remote clock offset: -34.111 ms

# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.17 Mbit/s
95th percentile per-packet one-way delay: 68.595 ms
Loss rate: 31.35%
-- Flow 1:
Average throughput: 12.17 Mbit/s
95th percentile per-packet one-way delay: 68.595 ms
Loss rate: 31.35%
```

Run 5: Report of PCC-Expr — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2019-03-26 20:07:01
End at: 2019-03-26 20:07:31
Local clock offset: 5.3 ms
Remote clock offset: -36.42 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.78 Mbit/s
95th percentile per-packet one-way delay: 62.027 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.78 Mbit/s
95th percentile per-packet one-way delay: 62.027 ms
Loss rate: 0.00%
```
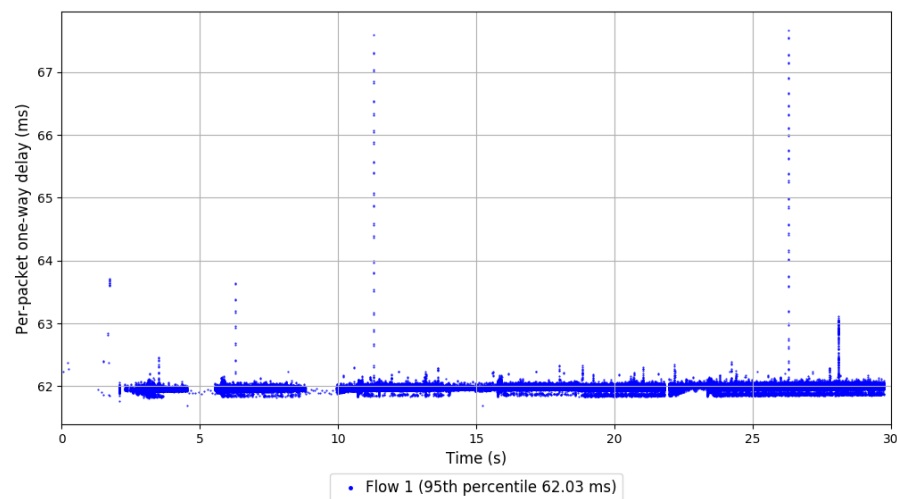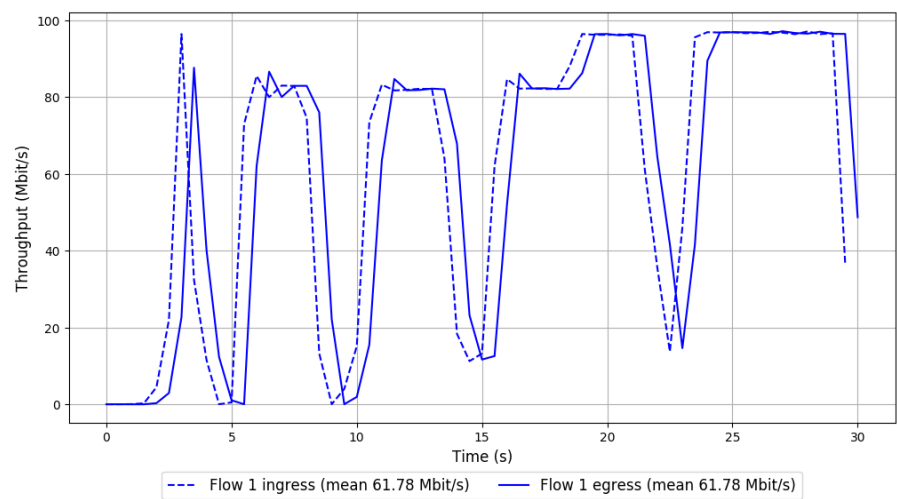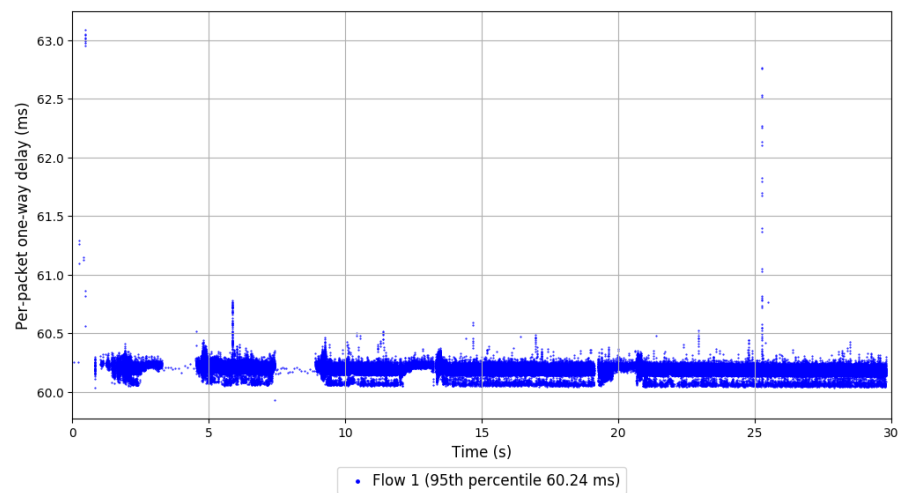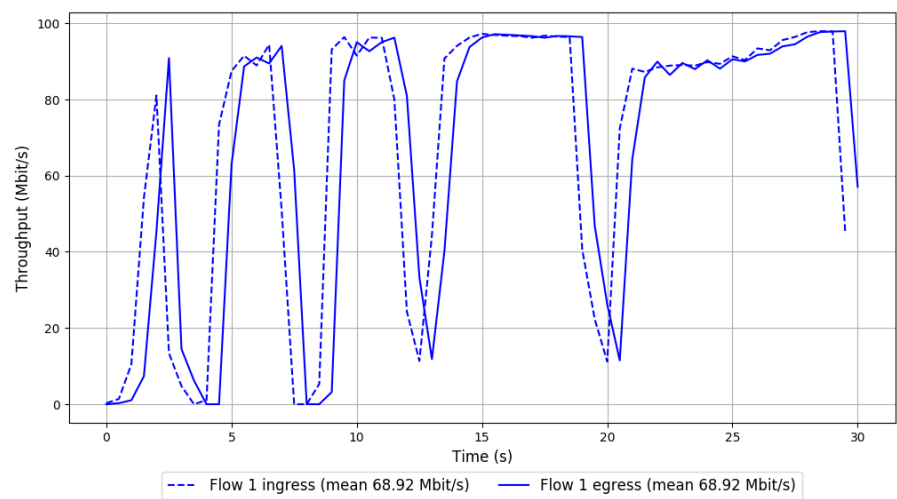
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2019-03-26 20:40:11
End at: 2019-03-26 20:40:41
Local clock offset: 0.494 ms
Remote clock offset: -40.328 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.92 Mbit/s
95th percentile per-packet one-way delay: 60.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.92 Mbit/s
95th percentile per-packet one-way delay: 60.241 ms
Loss rate: 0.00%
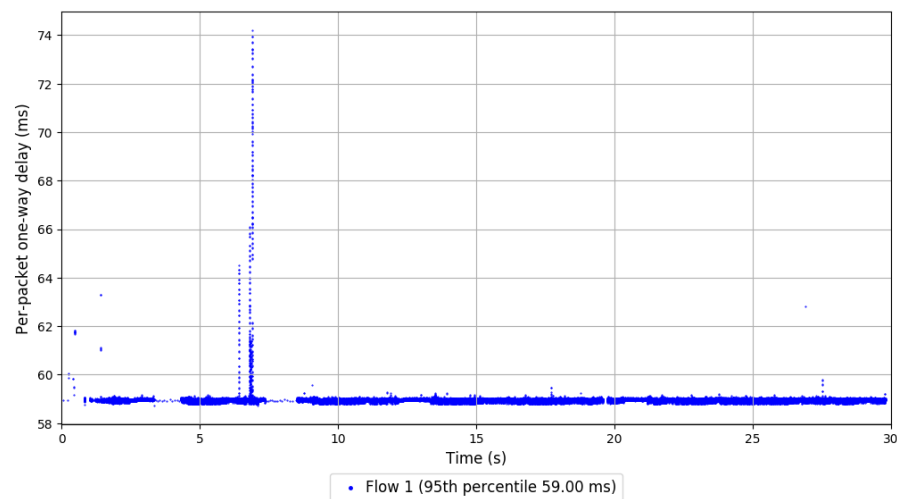```
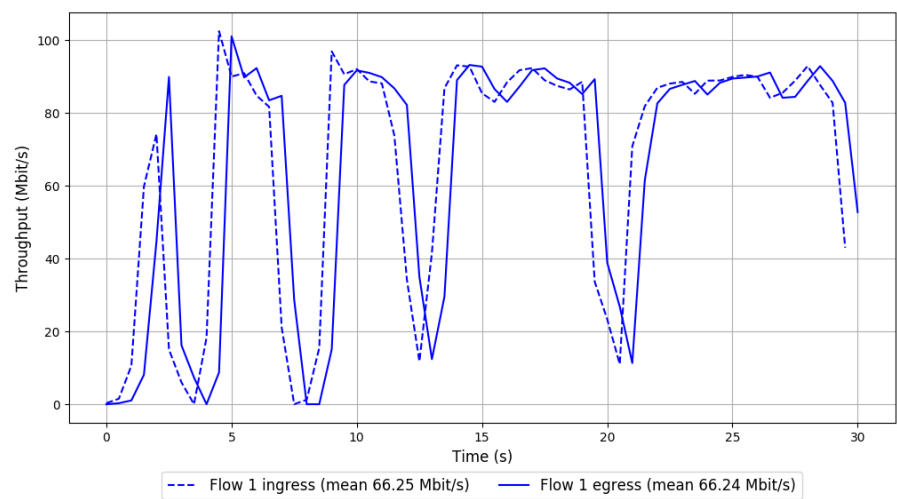
Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2019-03-26 21:07:36
End at: 2019-03-26 21:08:06
Local clock offset: 0.528 ms
Remote clock offset: -39.656 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.24 Mbit/s
95th percentile per-packet one-way delay: 59.000 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 66.24 Mbit/s
95th percentile per-packet one-way delay: 59.000 ms
Loss rate: 0.01%
```

Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 66.25 Mbit/s)   —— Flow 1 egress (mean 66.24 Mbit/s)
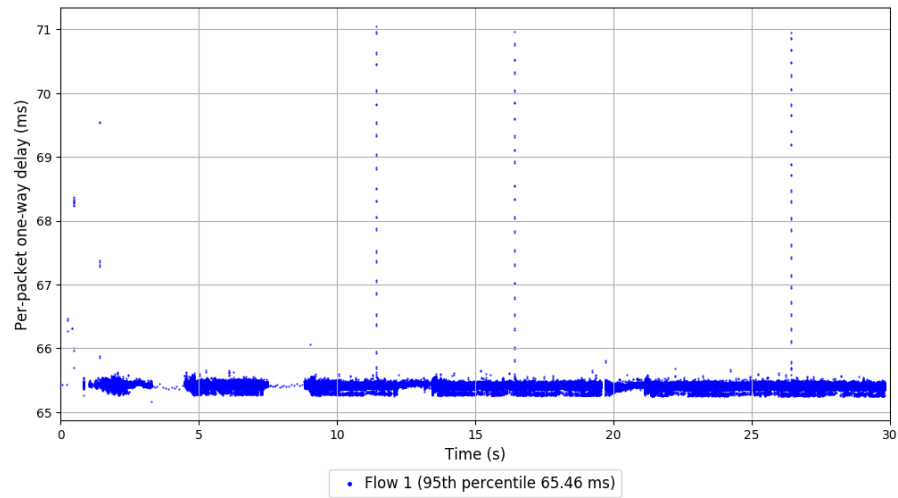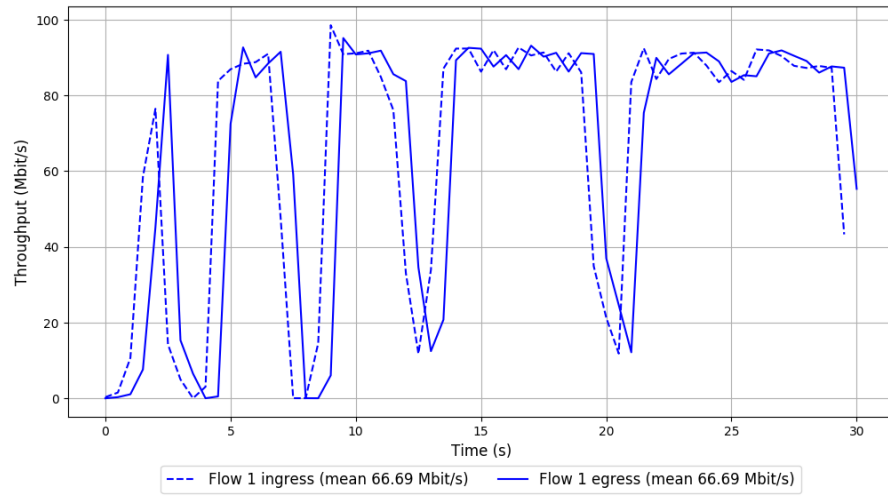

• Flow 1 (95th percentile 59.00 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2019-03-26 21:35:04
End at: 2019-03-26 21:35:34
Local clock offset: -5.113 ms
Remote clock offset: -36.349 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.69 Mbit/s
95th percentile per-packet one-way delay: 65.460 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.69 Mbit/s
95th percentile per-packet one-way delay: 65.460 ms
Loss rate: 0.00%
```
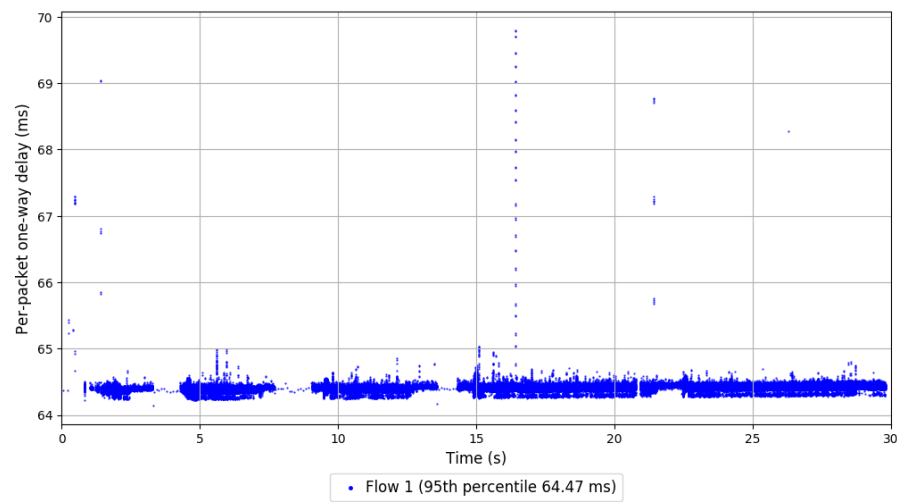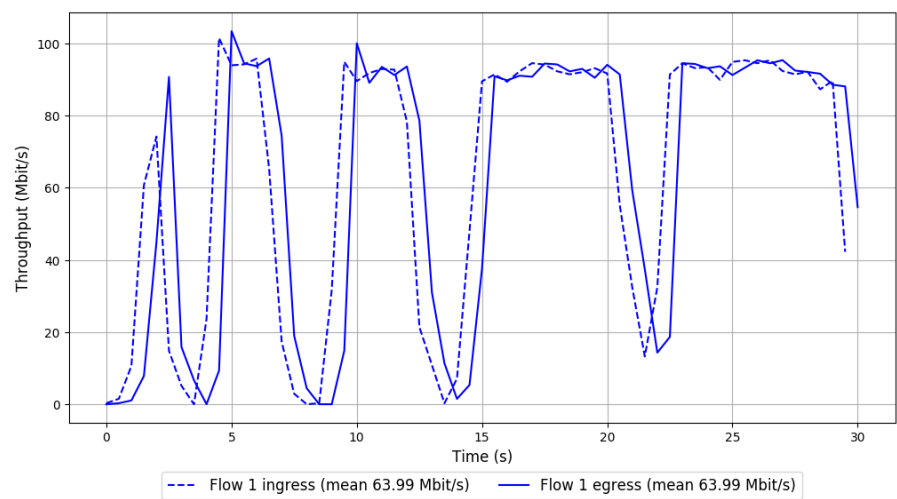
Run 4: Report of QUIC Cubic — Data Link

```
Run 5: Statistics of QUIC Cubic

Start at: 2019-03-26 22:02:39
End at: 2019-03-26 22:03:09
Local clock offset: 0.191 ms
Remote clock offset: -35.413 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.99 Mbit/s
95th percentile per-packet one-way delay: 64.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.99 Mbit/s
95th percentile per-packet one-way delay: 64.465 ms
Loss rate: 0.00%
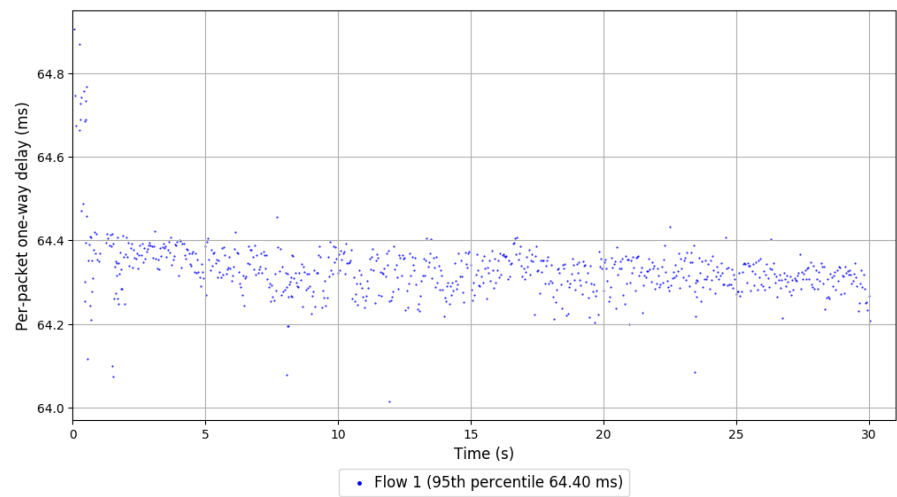```

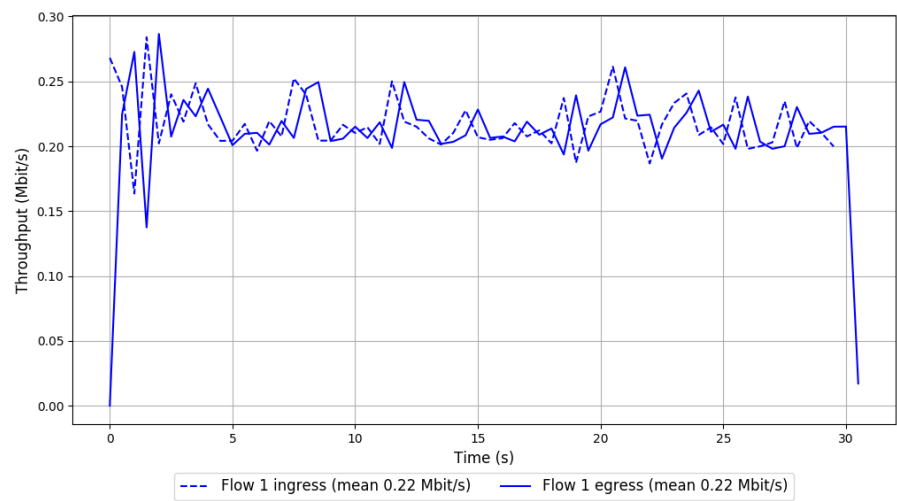Run 5: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2019-03-26 20:30:11
End at: 2019-03-26 20:30:41
Local clock offset: 0.805 ms
Remote clock offset: -34.065 ms

# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.401 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.401 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

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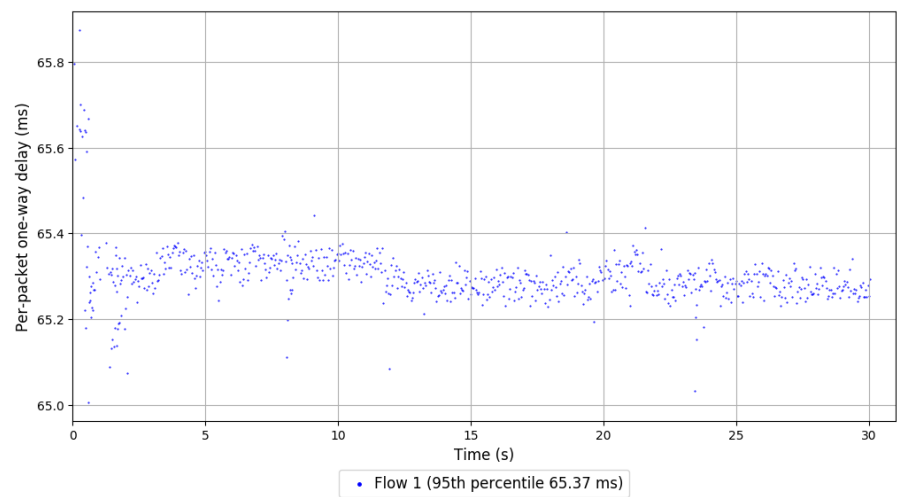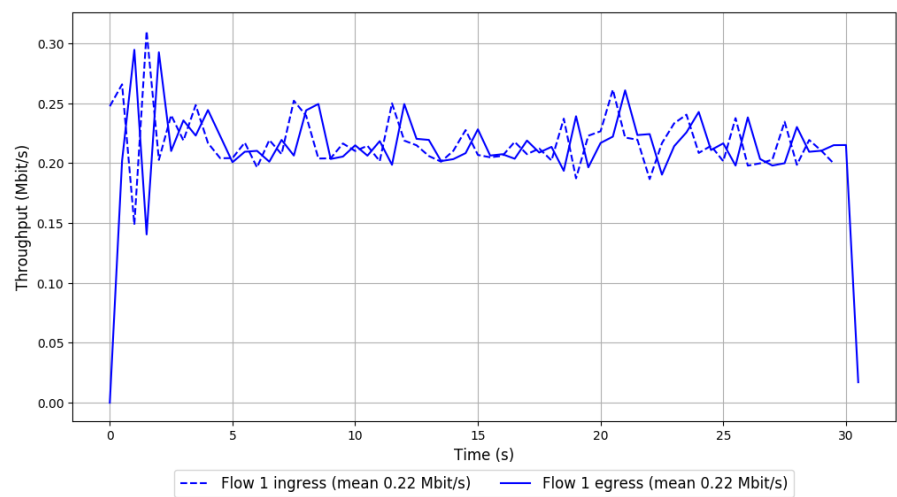

Flow 1 (95th percentile 64.40 ms)

```
Run 2: Statistics of SCReAM

Start at: 2019-03-26 20:57:36
End at: 2019-03-26 20:58:06
Local clock offset: -0.348 ms
Remote clock offset: -33.638 ms

# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.366 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.366 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

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

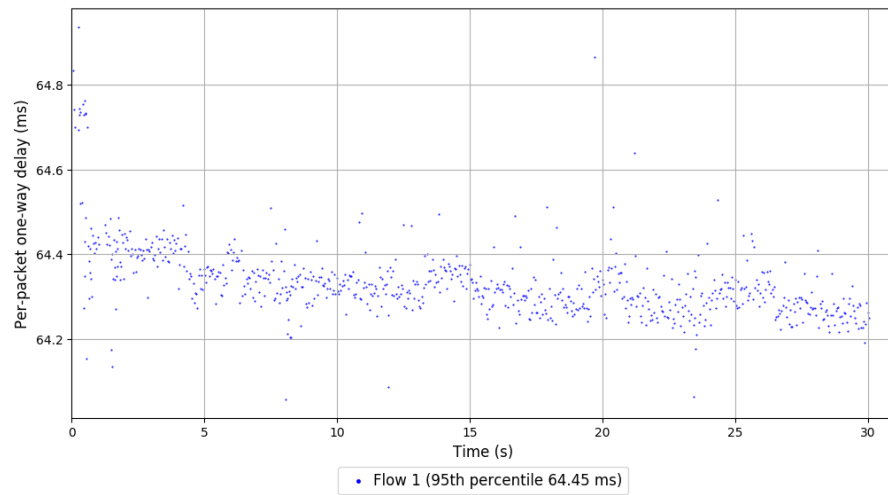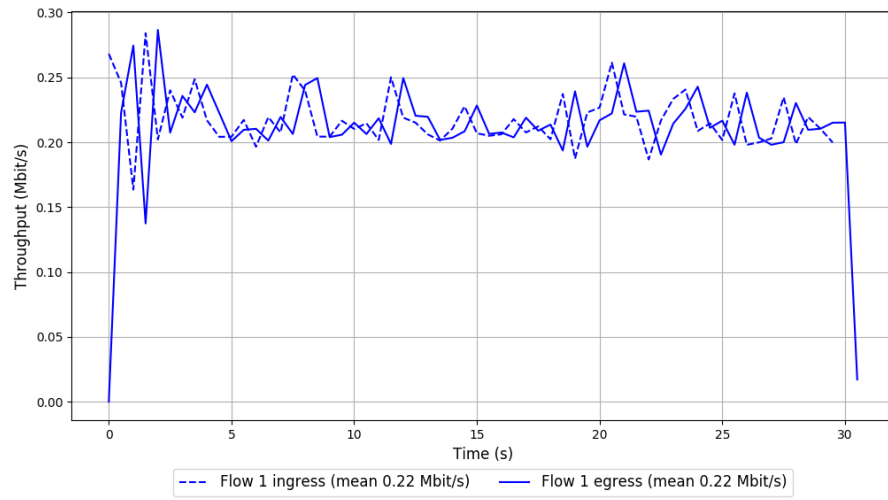Flow 1 (95th percentile 65.37 ms)

```
Run 3: Statistics of SCReAM

Start at: 2019-03-26 21:25:05
End at: 2019-03-26 21:25:35
Local clock offset: -4.007 ms
Remote clock offset: -35.065 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.450 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)

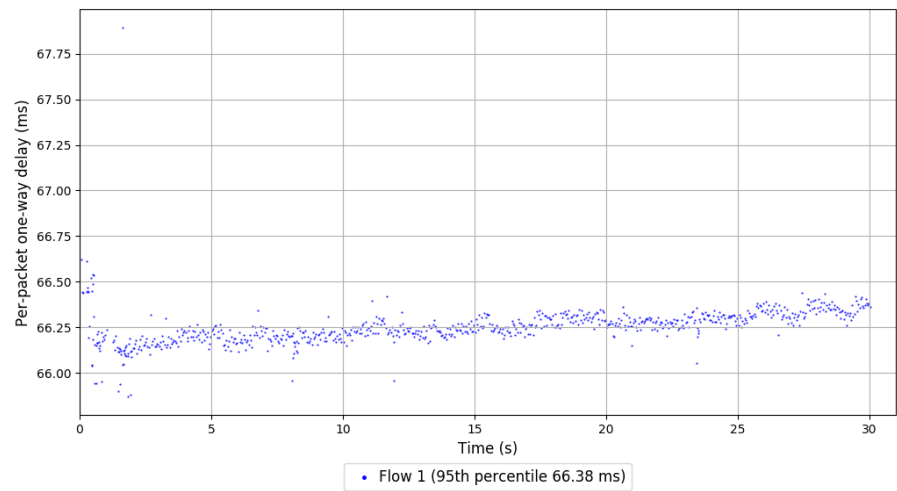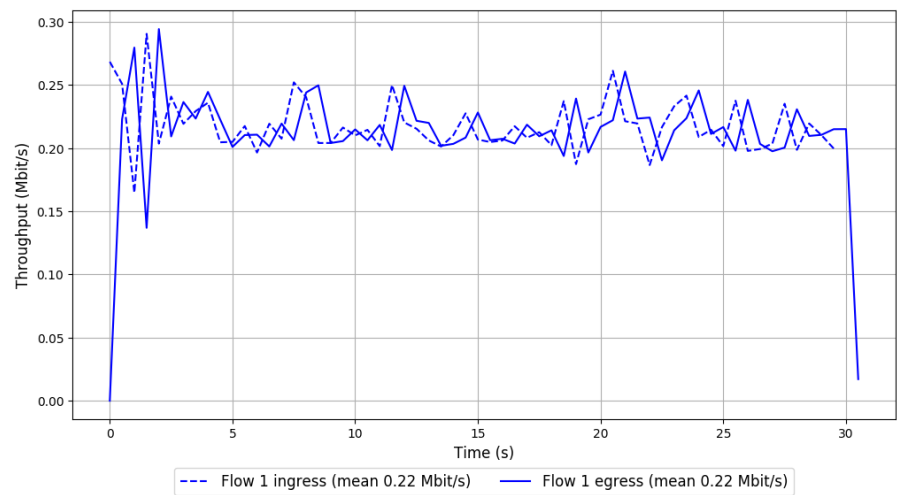Flow 1 (95th percentile 64.45 ms)

```
Run 4: Statistics of SCReAM

Start at: 2019-03-26 21:52:39
End at: 2019-03-26 21:53:09
Local clock offset: -1.561 ms
Remote clock offset: -35.493 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.376 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.376 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

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

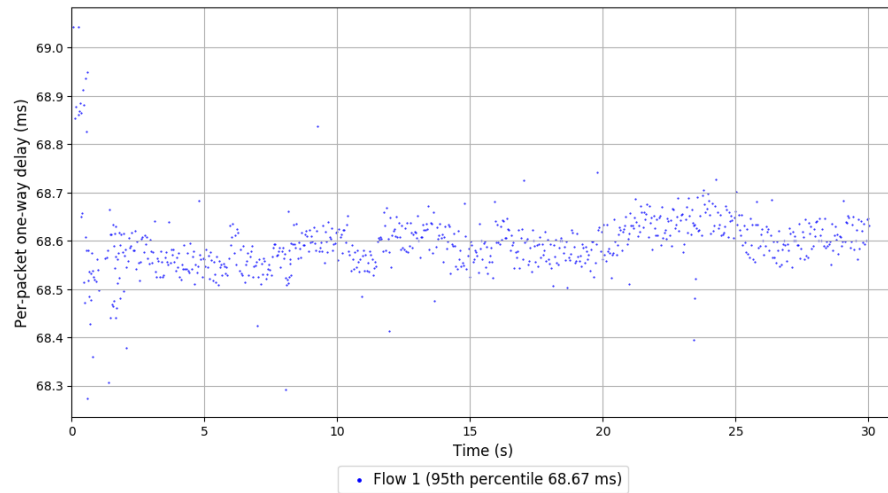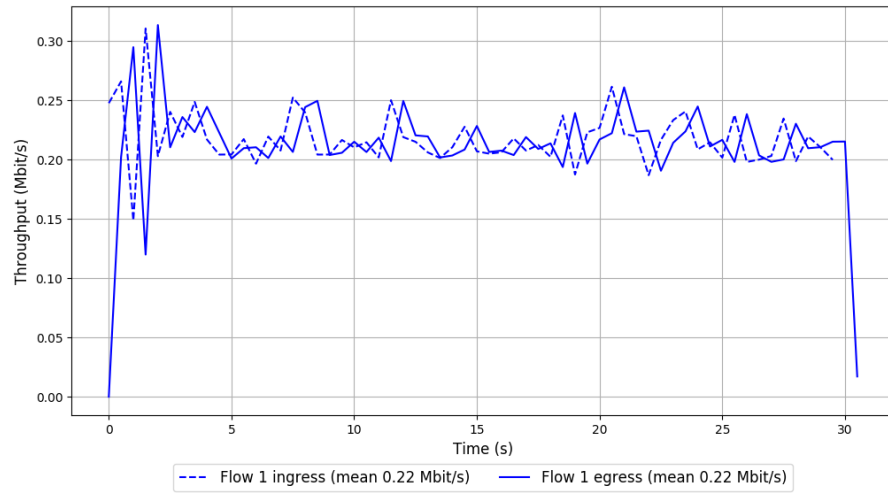Flow 1 (95th percentile 66.38 ms)

```
Run 5: Statistics of SCReAM

Start at: 2019-03-26 22:25:52
End at: 2019-03-26 22:26:22
Local clock offset: 4.842 ms
Remote clock offset: -30.597 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.672 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.672 ms
Loss rate: 0.00%
```

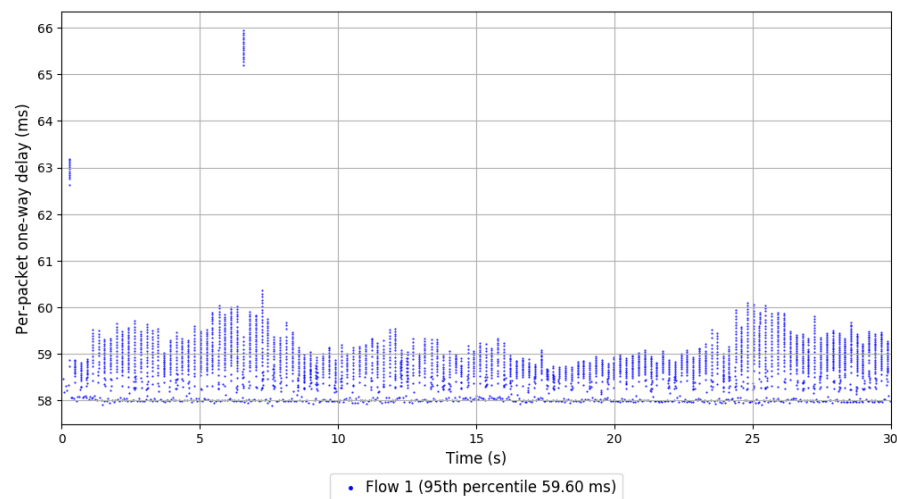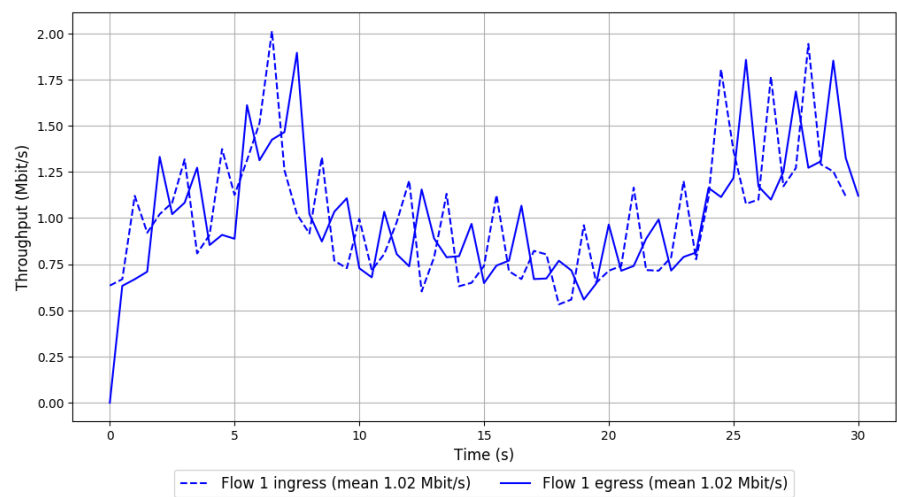Run 5: Report of SCReAM — Data Link

```
Run 1: Statistics of Sprout

Start at: 2019-03-26 20:35:14
End at: 2019-03-26 20:35:44
Local clock offset: 0.208 ms
Remote clock offset: -40.366 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 59.601 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 59.601 ms
Loss rate: 0.00%
```

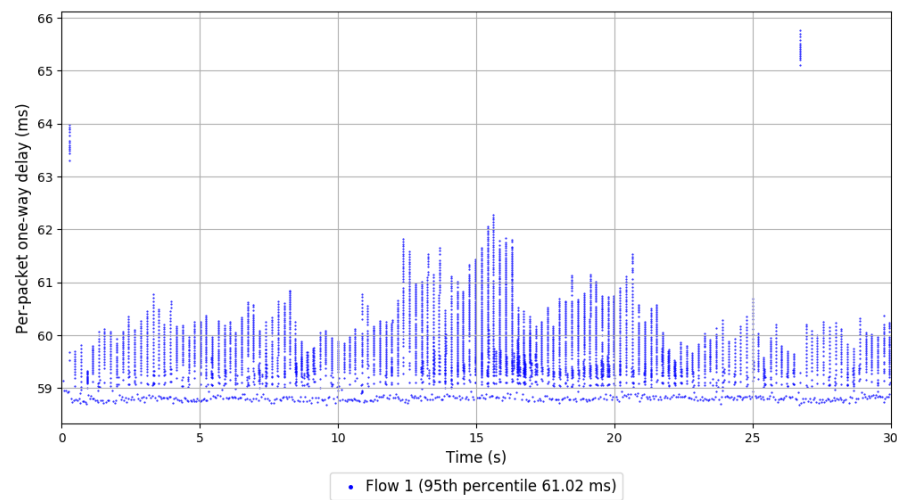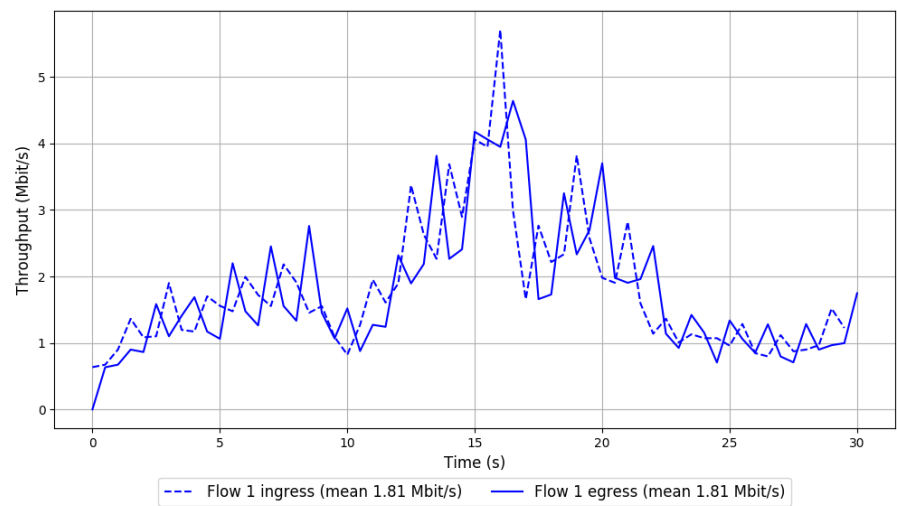Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2019-03-26 21:02:39
End at: 2019-03-26 21:03:09
Local clock offset: -0.633 ms
Remote clock offset: -40.311 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 61.017 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 61.017 ms
Loss rate: 0.00%
```

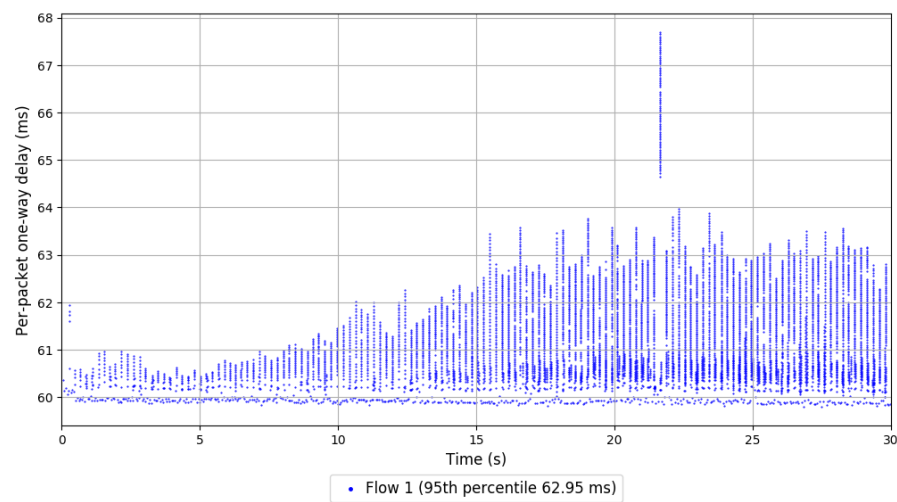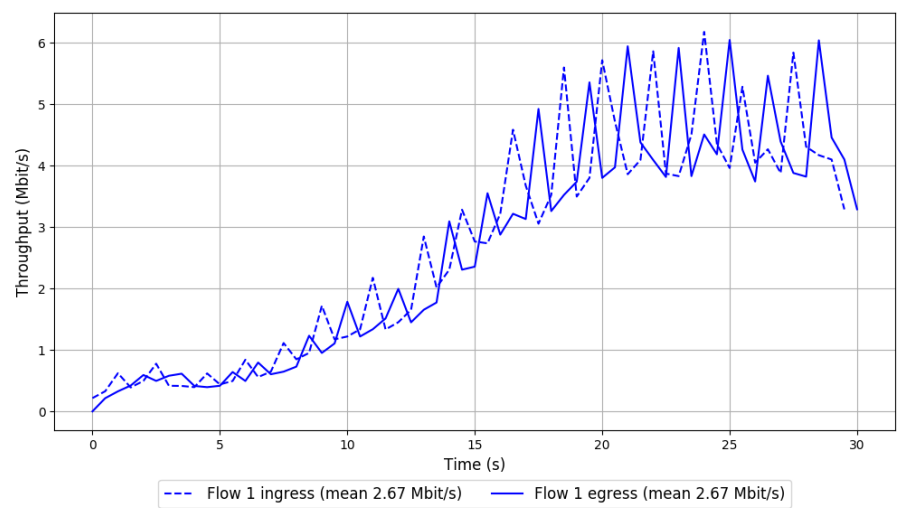Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2019-03-26 21:30:06
End at: 2019-03-26 21:30:36
Local clock offset: -5.132 ms
Remote clock offset: -39.405 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 62.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 62.950 ms
Loss rate: 0.00%
```
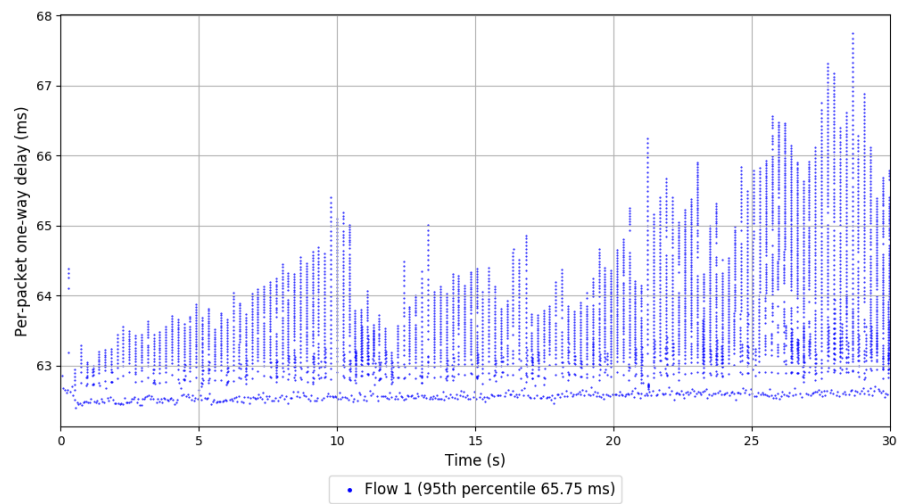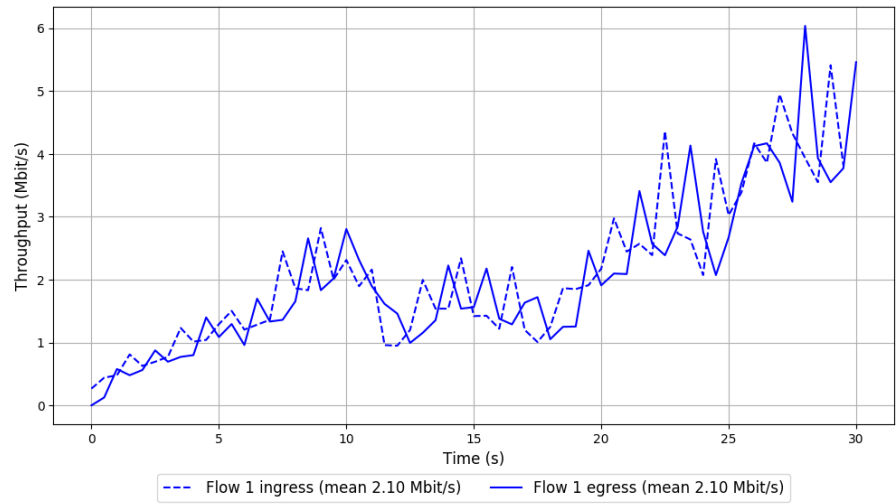
Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2019-03-26 21:57:42
End at: 2019-03-26 21:58:12
Local clock offset: -0.476 ms
Remote clock offset: -39.411 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 65.754 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 65.754 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

Flow 1 ingress (mean 2.10 Mbit/s)   Flow 1 egress (mean 2.10 Mbit/s)

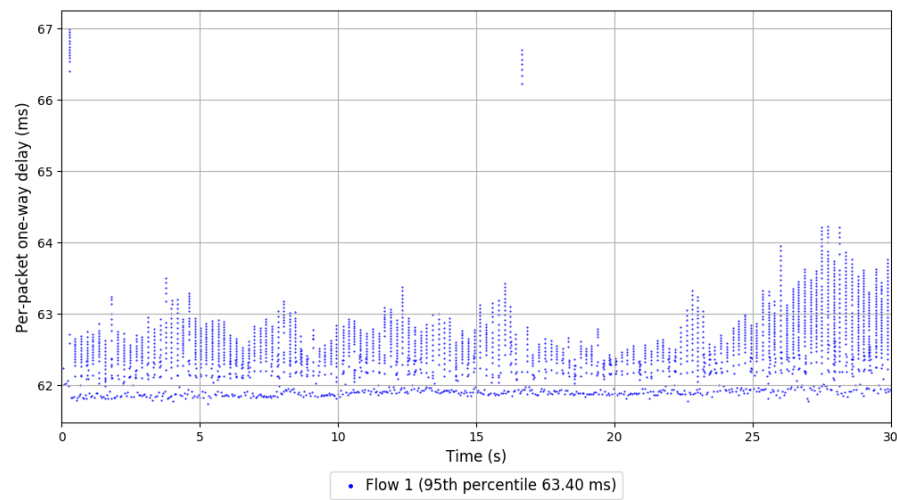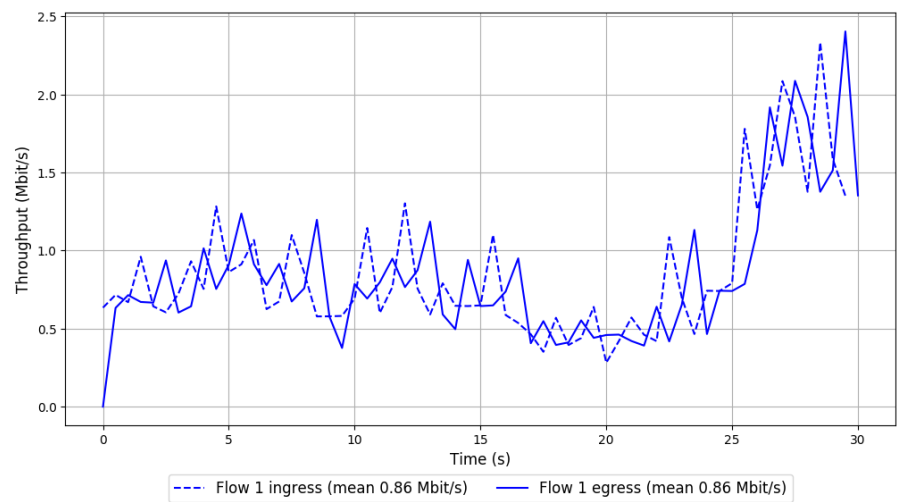
Flow 1 (95th percentile 65.75 ms)

```
Run 5: Statistics of Sprout

Start at: 2019-03-26 22:30:53
End at: 2019-03-26 22:31:23
Local clock offset: 5.396 ms
Remote clock offset: -37.25 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 63.402 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 63.402 ms
Loss rate: 0.00%
```

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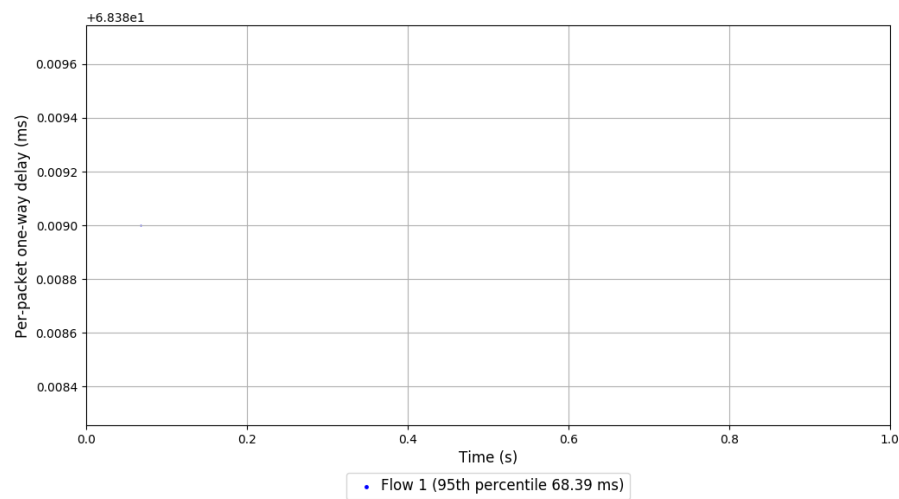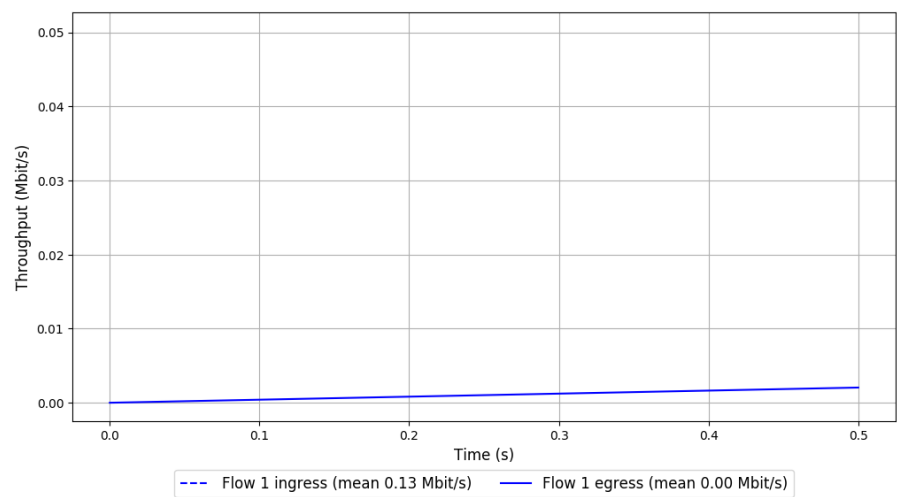
```
Run 1: Statistics of TaoVA-100x

Start at: 2019-03-26 20:17:50
End at: 2019-03-26 20:18:20
Local clock offset: 6.137 ms
Remote clock offset: -32.089 ms
```

Run 1: 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 68.39 ms)
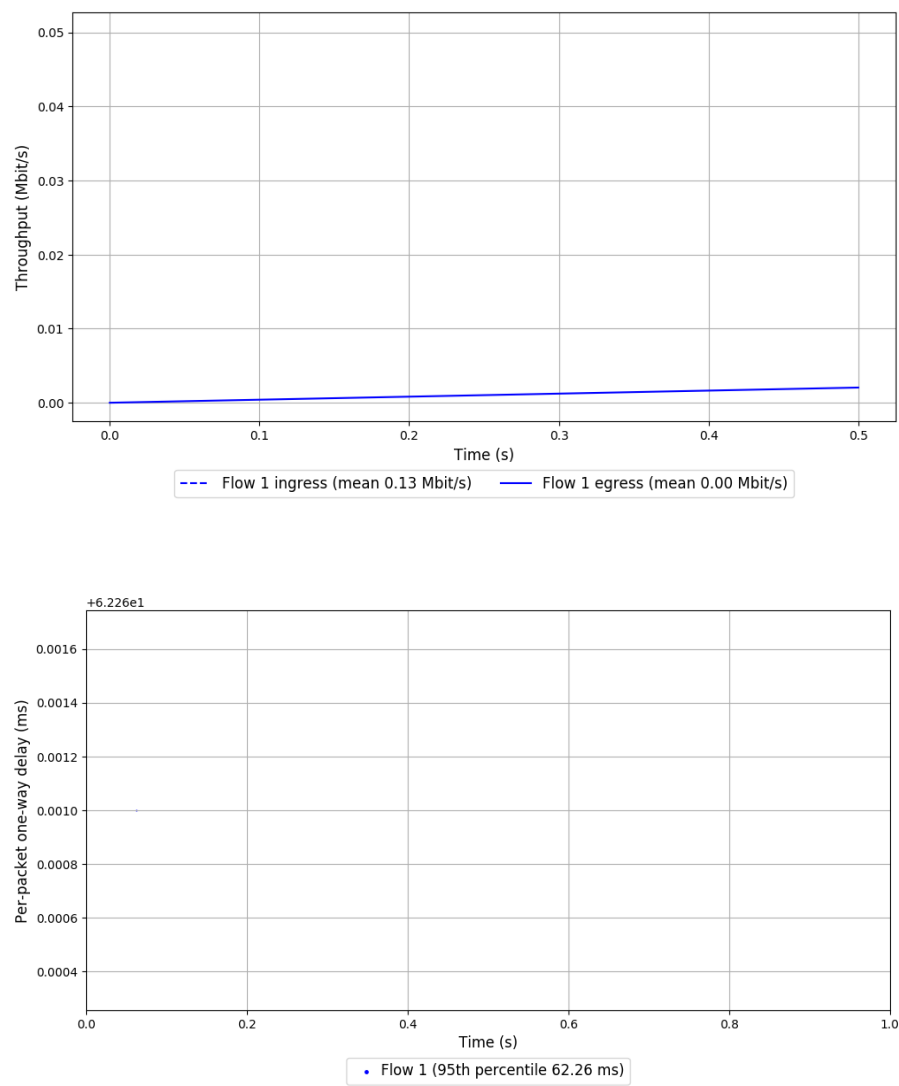
166

```
Run 2: Statistics of TaoVA-100x

Start at: 2019-03-26 20:45:34
End at: 2019-03-26 20:46:04
Local clock offset: 0.562 ms
Remote clock offset: -35.952 ms
```

Run 2: 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 62.26 ms)
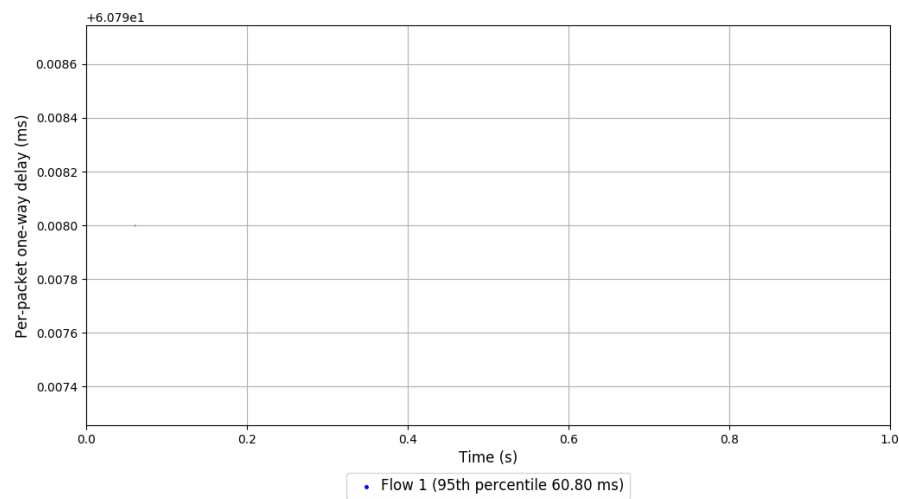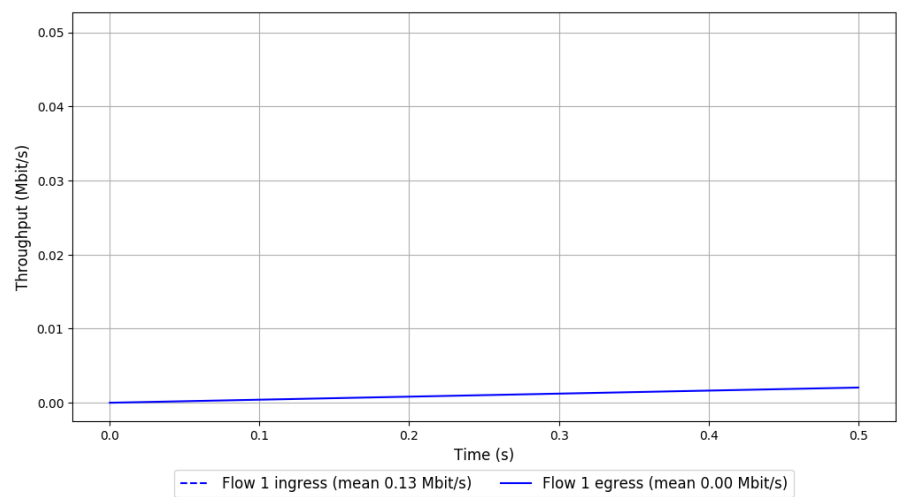
```
Run 3: Statistics of TaoVA-100x

Start at: 2019-03-26 21:12:59
End at: 2019-03-26 21:13:29
Local clock offset: 1.451 ms
Remote clock offset: -36.946 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 60.80 ms)
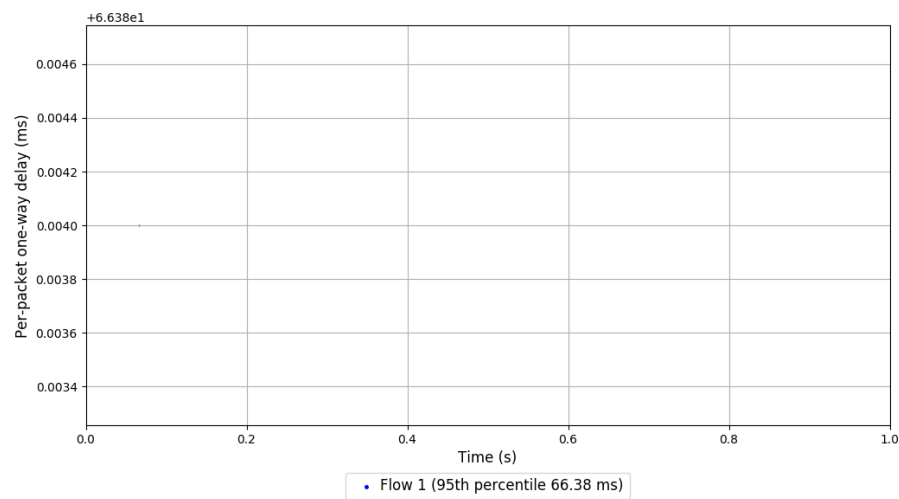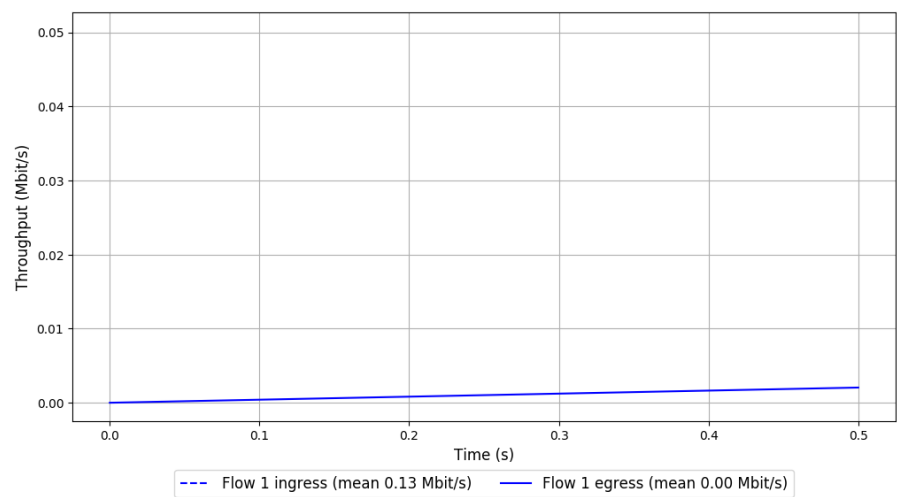
```
Run 4: Statistics of TaoVA-100x

Start at: 2019-03-26 21:40:29
End at: 2019-03-26 21:40:59
Local clock offset: -4.784 ms
Remote clock offset: -35.271 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 66.38 ms)
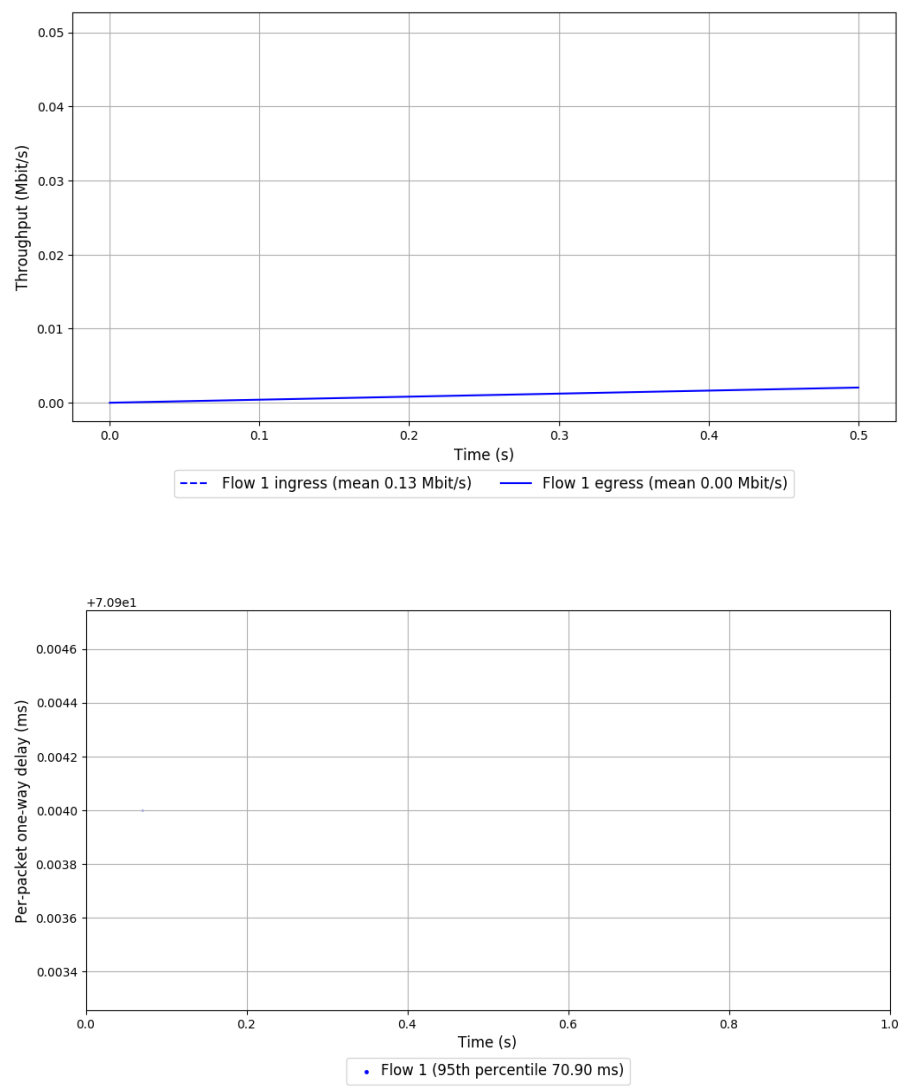
```
Run 5: Statistics of TaoVA-100x

Start at: 2019-03-26 22:08:03
End at: 2019-03-26 22:08:33
Local clock offset: 1.963 ms
Remote clock offset: -28.244 ms
```

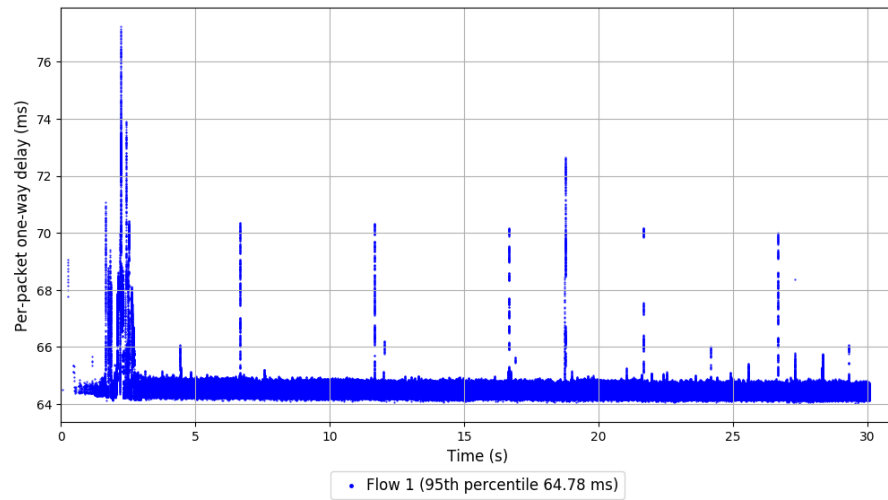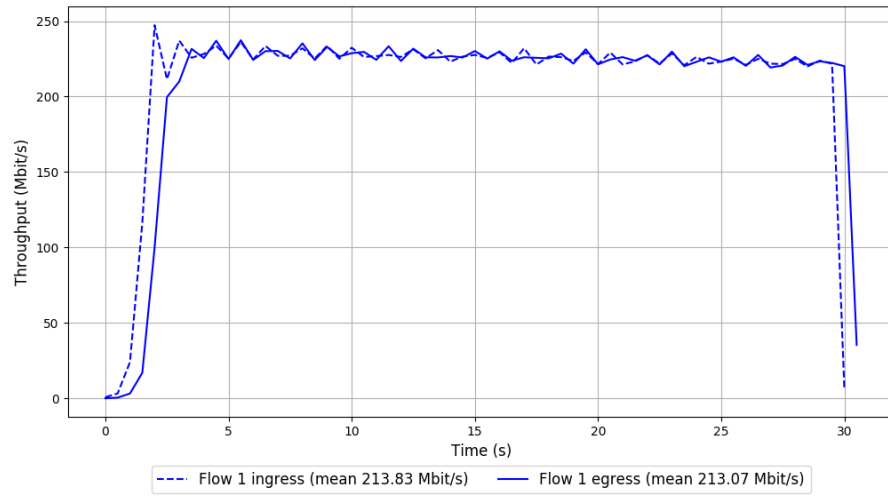# Run 5: Report of TaoVA-100x — Data Link

Run 1: Statistics of TCP Vegas

Start at: 2019-03-26 20:25:57
End at: 2019-03-26 20:26:27
Local clock offset: 1.968 ms
Remote clock offset: -34.061 ms

Below is generated by plot.py at 2019-03-26 23:07:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 213.07 Mbit/s
95th percentile per-packet one-way delay: 64.775 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 213.07 Mbit/s
95th percentile per-packet one-way delay: 64.775 ms
Loss rate: 0.35%

Run 1: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 213.83 Mbit/s)   Flow 1 egress (mean 213.07 Mbit/s)
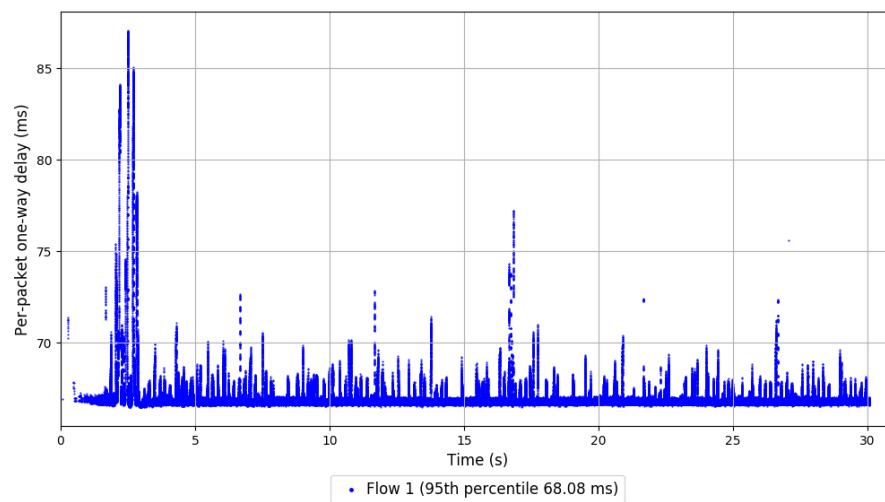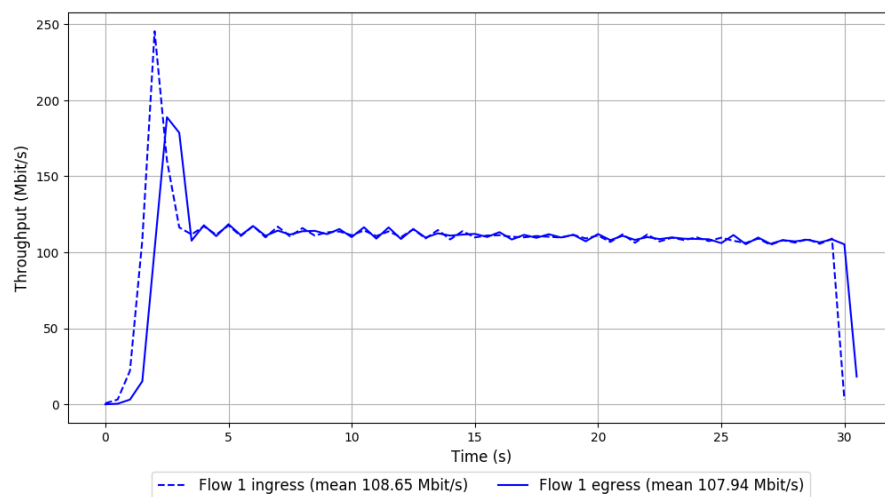

Flow 1 (95th percentile 64.78 ms)

```
Run 2: Statistics of TCP Vegas

Start at: 2019-03-26 20:53:27
End at: 2019-03-26 20:53:57
Local clock offset: -0.812 ms
Remote clock offset: -35.201 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.94 Mbit/s
95th percentile per-packet one-way delay: 68.075 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 107.94 Mbit/s
95th percentile per-packet one-way delay: 68.075 ms
Loss rate: 0.66%
```

Run 2: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 108.65 Mbit/s) —— Flow 1 egress (mean 107.94 Mbit/s)
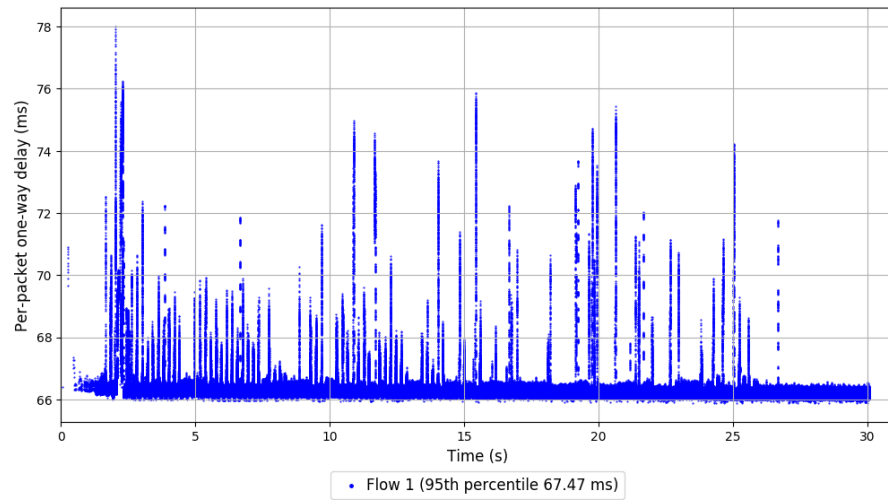
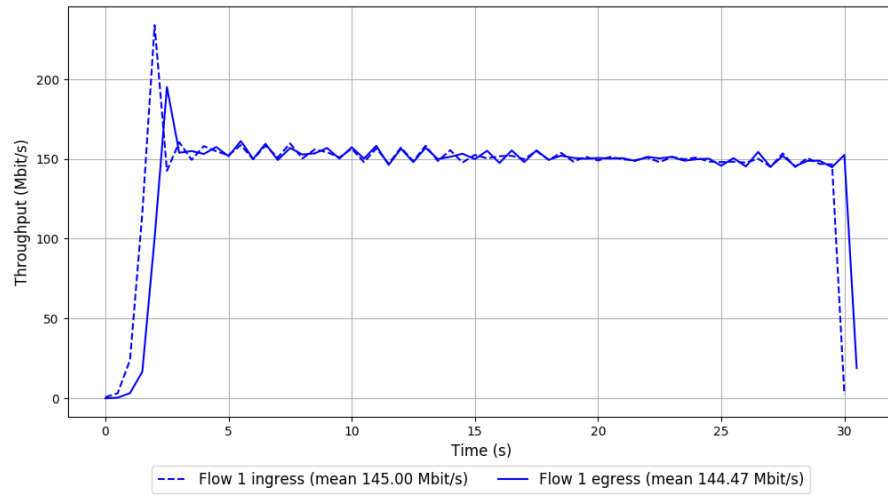

• Flow 1 (95th percentile 68.08 ms)

```
Run 3: Statistics of TCP Vegas

Start at: 2019-03-26 21:20:54
End at: 2019-03-26 21:21:24
Local clock offset: -1.843 ms
Remote clock offset: -32.95 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.47 Mbit/s
95th percentile per-packet one-way delay: 67.466 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 144.47 Mbit/s
95th percentile per-packet one-way delay: 67.466 ms
Loss rate: 0.37%
```

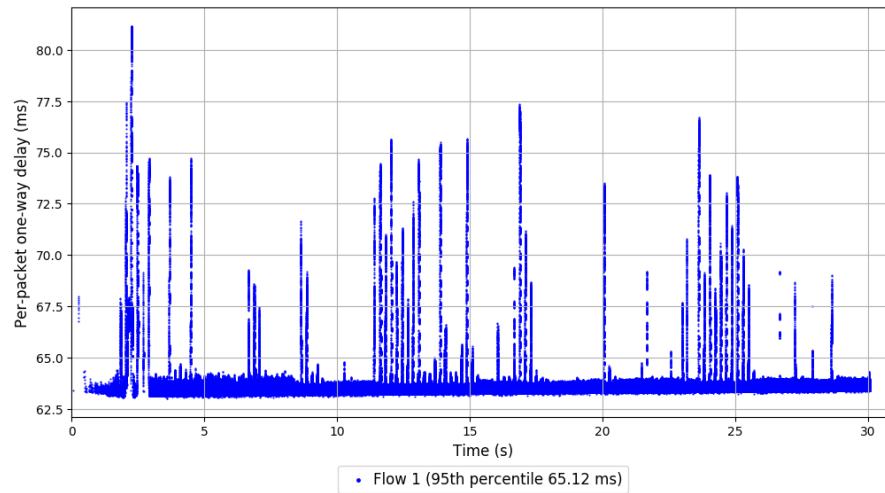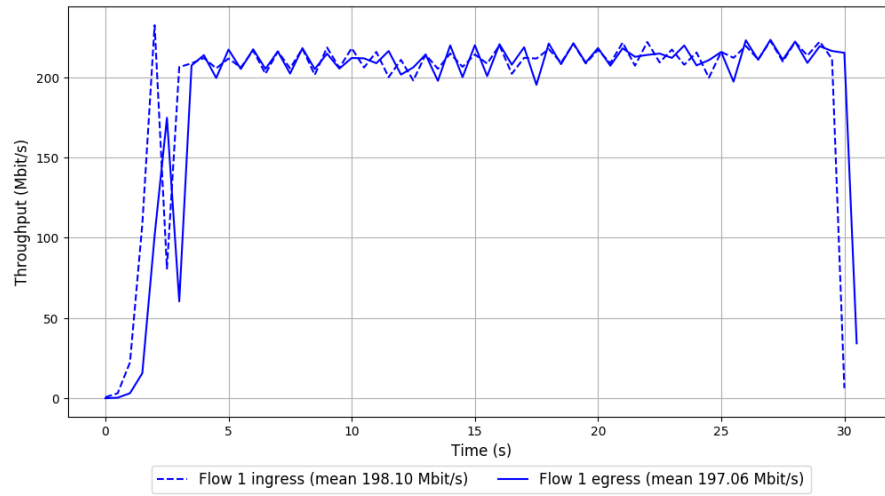Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2019-03-26 21:48:27
End at: 2019-03-26 21:48:57
Local clock offset: -3.825 ms
Remote clock offset: -38.514 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.06 Mbit/s
95th percentile per-packet one-way delay: 65.123 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 197.06 Mbit/s
95th percentile per-packet one-way delay: 65.123 ms
Loss rate: 0.52%
```

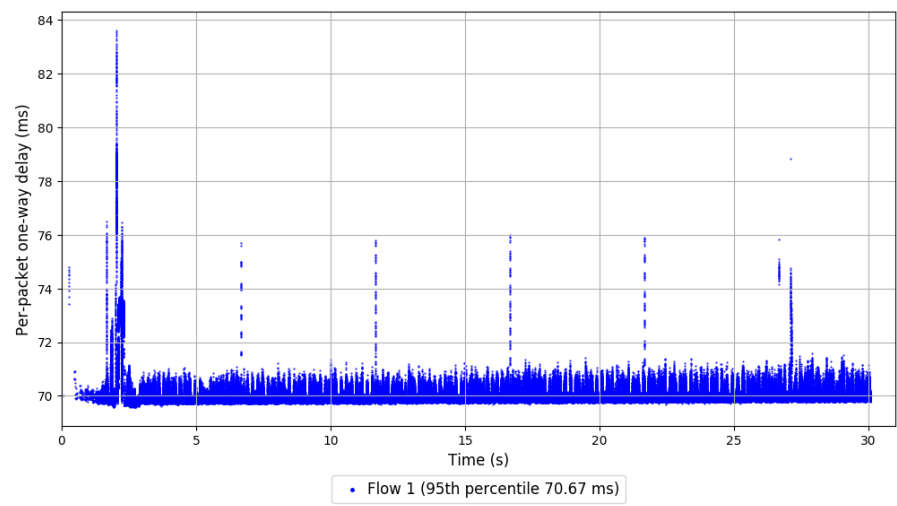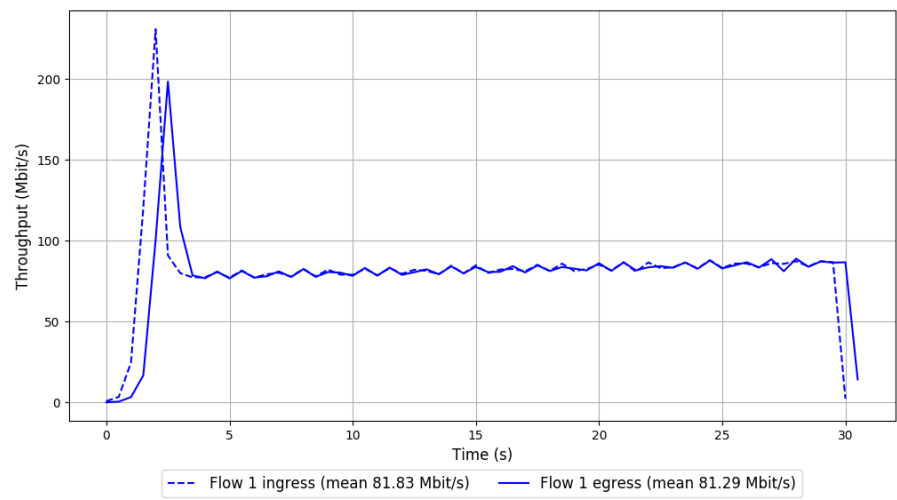Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2019-03-26 22:21:45
End at: 2019-03-26 22:22:15
Local clock offset: 4.075 ms
Remote clock offset: -29.364 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.29 Mbit/s
95th percentile per-packet one-way delay: 70.667 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 81.29 Mbit/s
95th percentile per-packet one-way delay: 70.667 ms
Loss rate: 0.67%
```

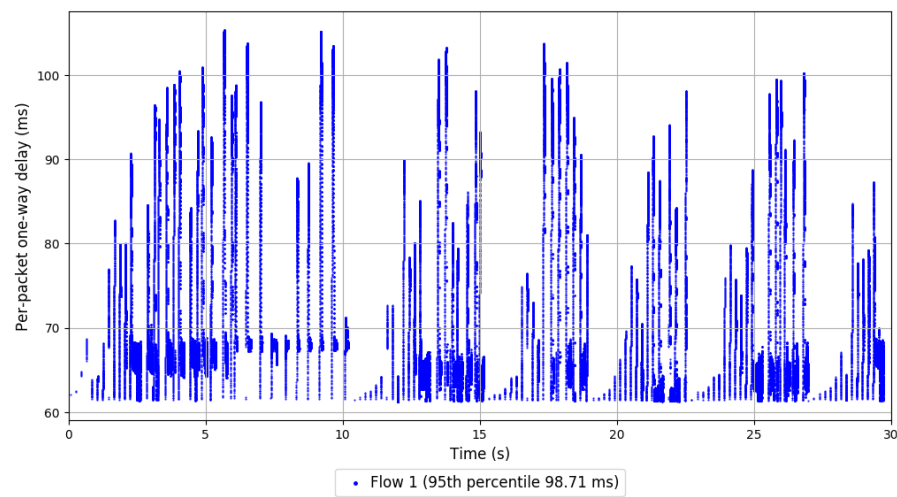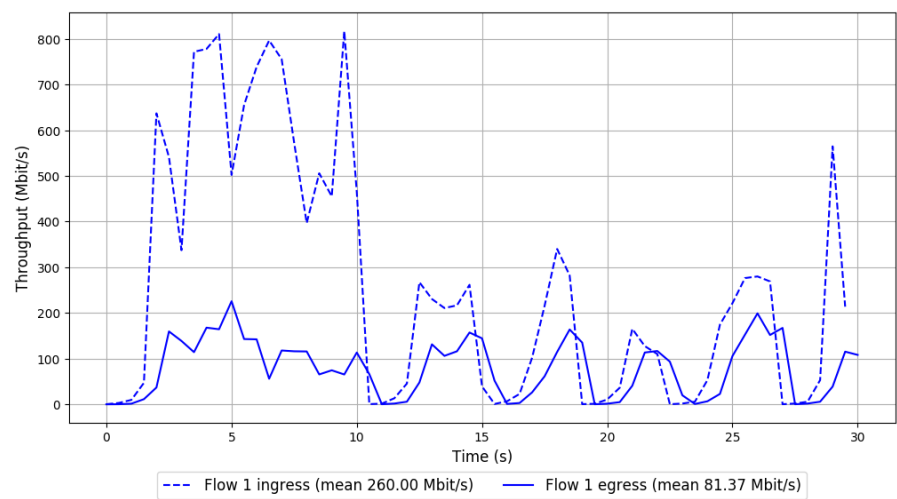# Run 5: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2019-03-26 20:31:21
End at: 2019-03-26 20:31:51
Local clock offset: 1.842 ms
Remote clock offset: -38.331 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.37 Mbit/s
95th percentile per-packet one-way delay: 98.709 ms
Loss rate: 68.70%
-- Flow 1:
Average throughput: 81.37 Mbit/s
95th percentile per-packet one-way delay: 98.709 ms
Loss rate: 68.70%
```

Run 1: Report of Verus — Data Link

Flow 1 ingress (mean 260.00 Mbit/s) --- Flow 1 egress (mean 81.37 Mbit/s)

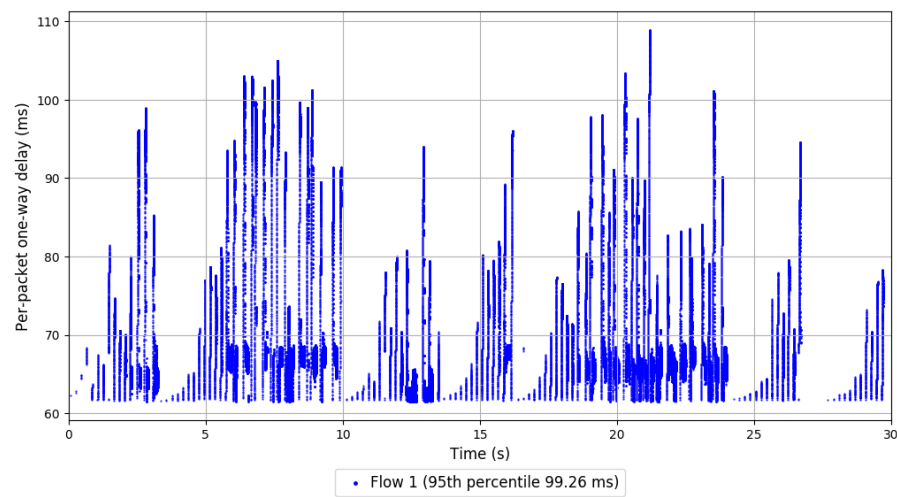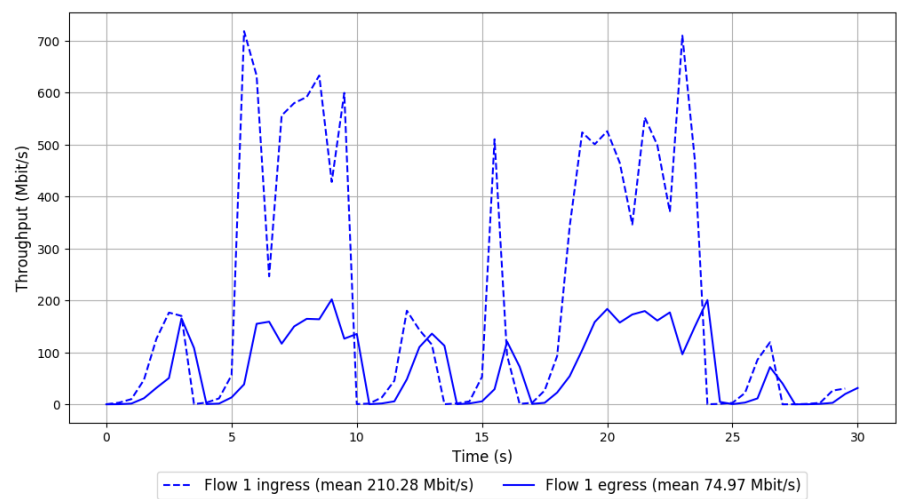

• Flow 1 (95th percentile 98.71 ms)

```
Run 2: Statistics of Verus

Start at: 2019-03-26 20:58:45
End at: 2019-03-26 20:59:15
Local clock offset: 0.252 ms
Remote clock offset: -39.291 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.97 Mbit/s
95th percentile per-packet one-way delay: 99.257 ms
Loss rate: 64.34%
-- Flow 1:
Average throughput: 74.97 Mbit/s
95th percentile per-packet one-way delay: 99.257 ms
Loss rate: 64.34%
```
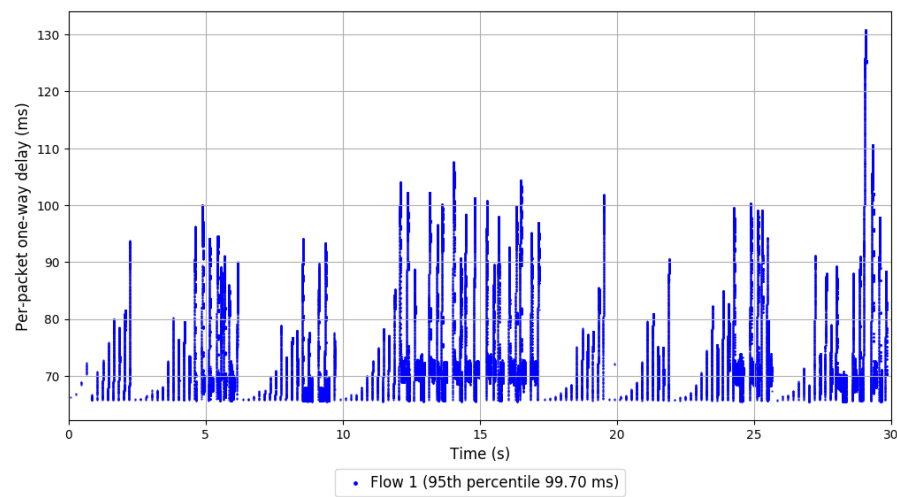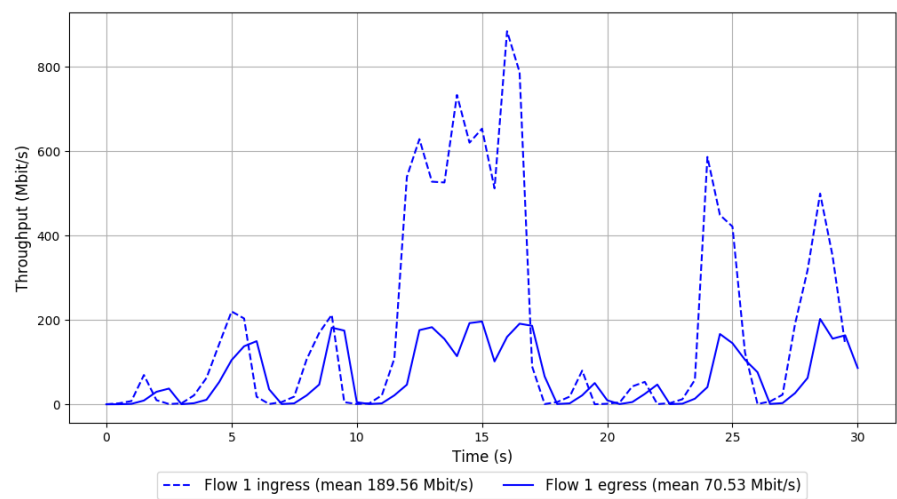
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2019-03-26 21:26:14
End at: 2019-03-26 21:26:44
Local clock offset: -2.834 ms
Remote clock offset: -32.883 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.53 Mbit/s
95th percentile per-packet one-way delay: 99.701 ms
Loss rate: 62.79%
-- Flow 1:
Average throughput: 70.53 Mbit/s
95th percentile per-packet one-way delay: 99.701 ms
Loss rate: 62.79%
```
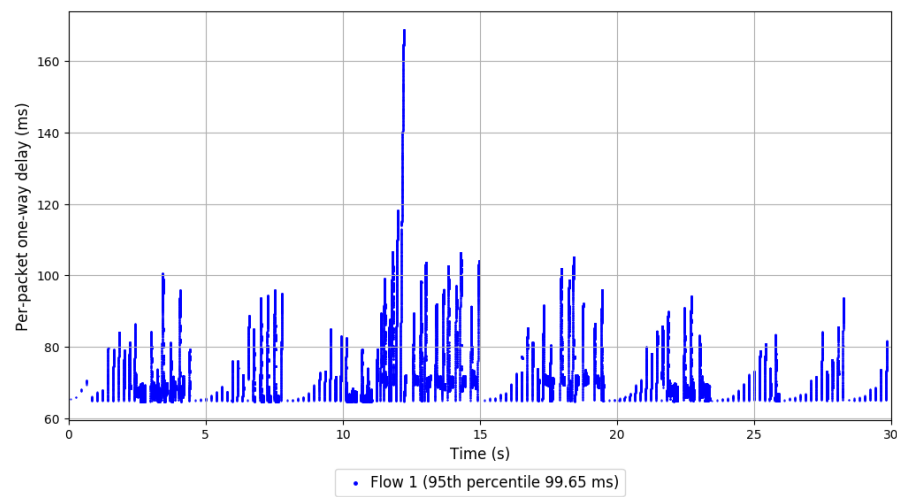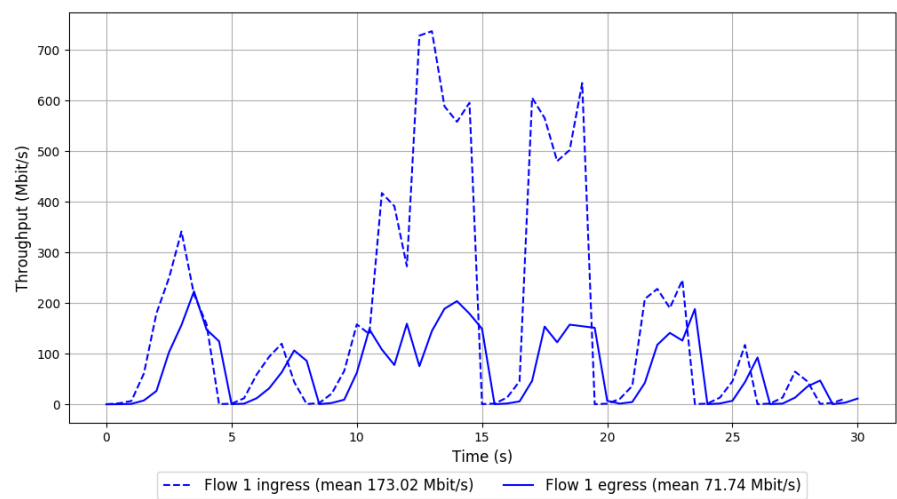
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2019-03-26 21:53:49
End at: 2019-03-26 21:54:19
Local clock offset: -1.395 ms
Remote clock offset: -34.929 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.74 Mbit/s
95th percentile per-packet one-way delay: 99.652 ms
Loss rate: 58.51%
-- Flow 1:
Average throughput: 71.74 Mbit/s
95th percentile per-packet one-way delay: 99.652 ms
Loss rate: 58.51%
```

Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 173.02 Mbit/s) --- Flow 1 egress (mean 71.74 Mbit/s)
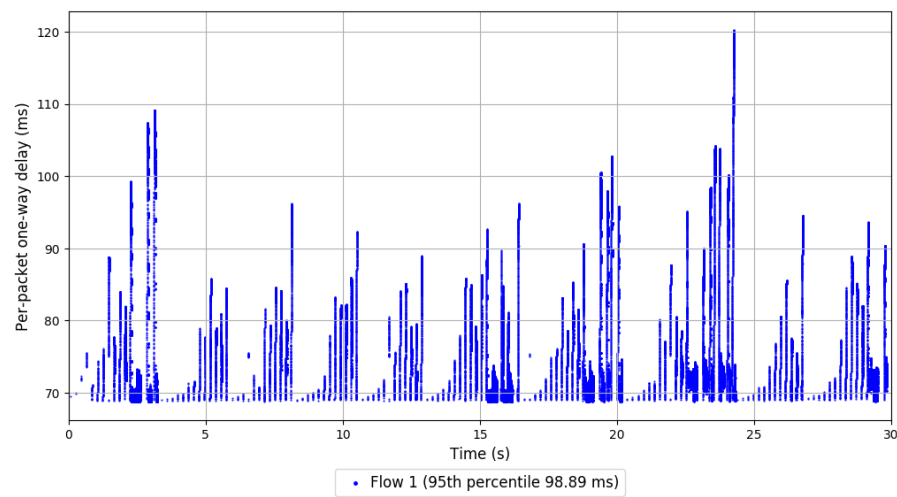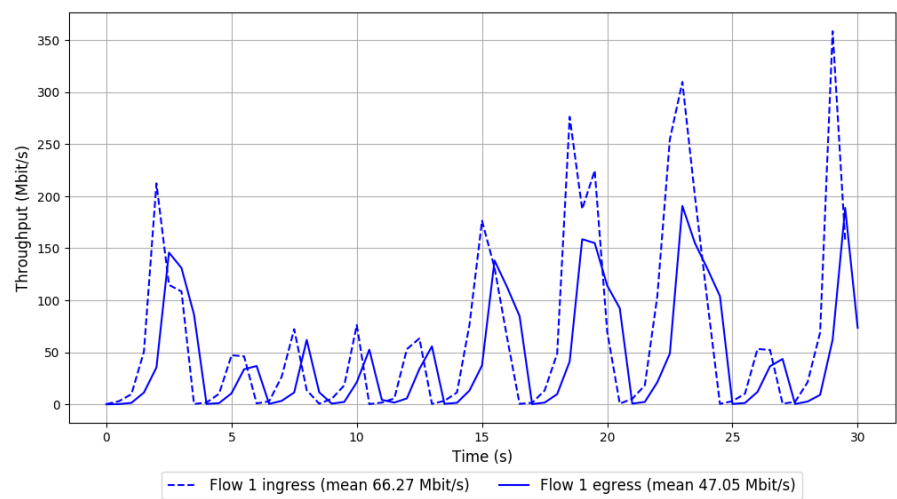

Flow 1 (95th percentile 99.65 ms)

```
Run 5: Statistics of Verus

Start at: 2019-03-26 22:27:02
End at: 2019-03-26 22:27:33
Local clock offset: 4.137 ms
Remote clock offset: -33.685 ms


# Below is generated by plot.py at 2019-03-26 23:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.05 Mbit/s
95th percentile per-packet one-way delay: 98.888 ms
Loss rate: 29.00%
-- Flow 1:
Average throughput: 47.05 Mbit/s
95th percentile per-packet one-way delay: 98.888 ms
Loss rate: 29.00%
```

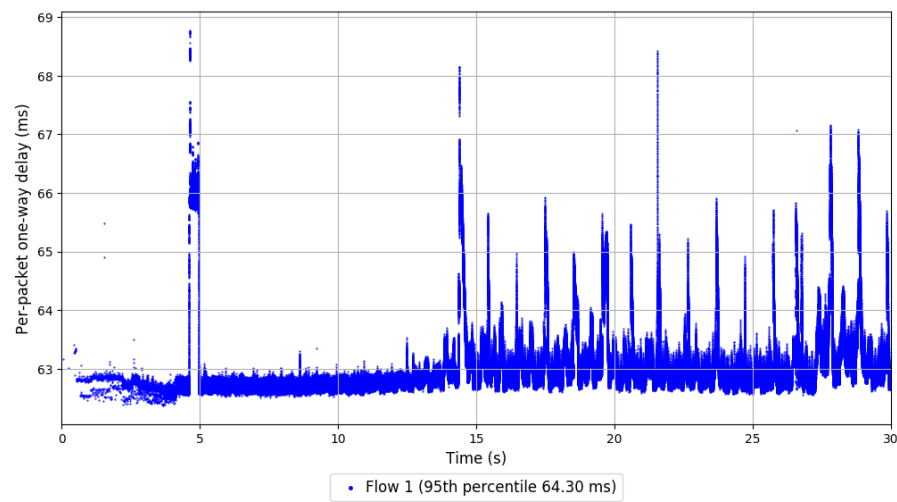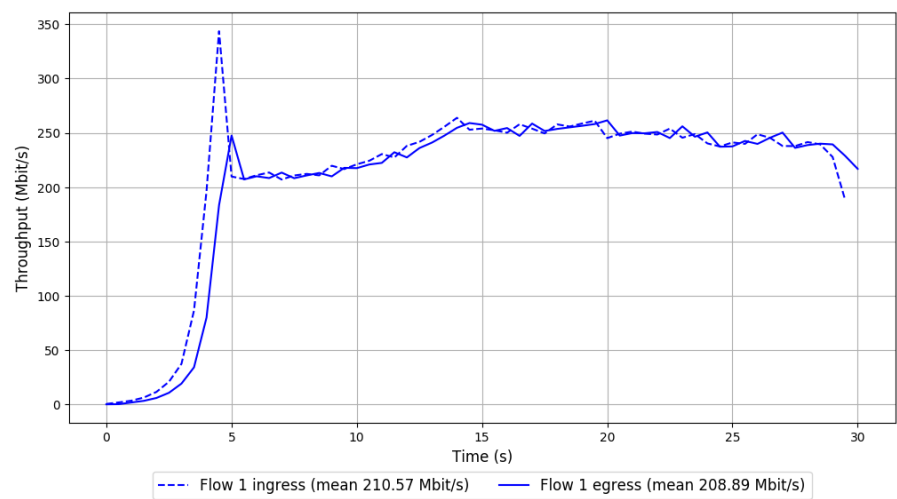## Run 5: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2019-03-26 20:36:24
End at: 2019-03-26 20:36:54
Local clock offset: 0.023 ms
Remote clock offset: -35.914 ms

# Below is generated by plot.py at 2019-03-26 23:08:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.89 Mbit/s
95th percentile per-packet one-way delay: 64.300 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 208.89 Mbit/s
95th percentile per-packet one-way delay: 64.300 ms
Loss rate: 0.80%
```

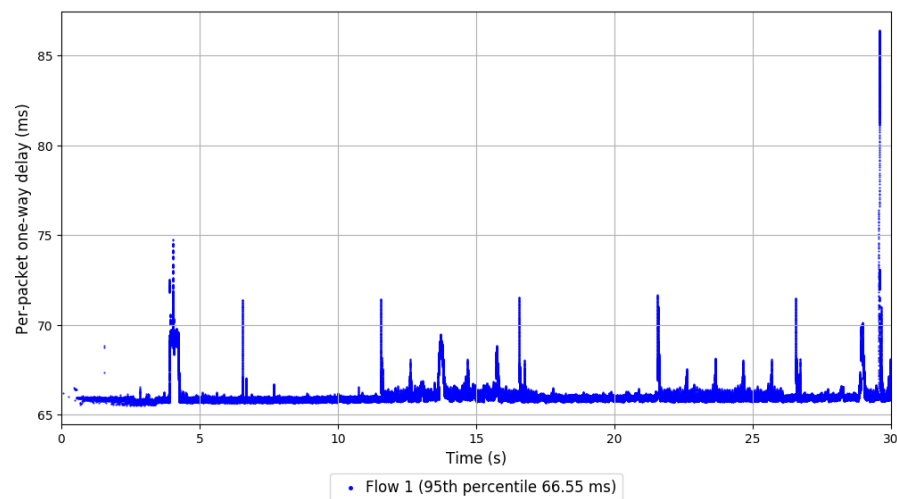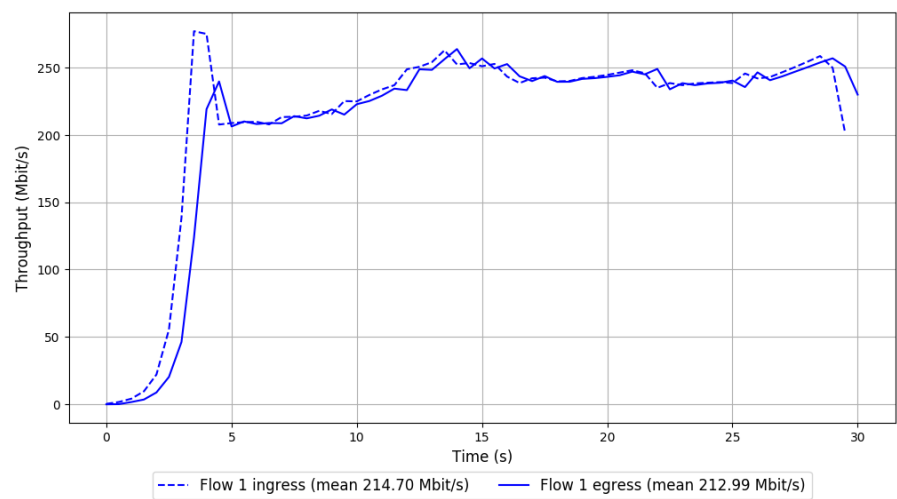## Run 1: Report of PCC-Vivace — Data Link

196

```
Run 2: Statistics of PCC-Vivace

Start at: 2019-03-26 21:03:49
End at: 2019-03-26 21:04:19
Local clock offset: -5.098 ms
Remote clock offset: -40.529 ms


# Below is generated by plot.py at 2019-03-26 23:08:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.99 Mbit/s
95th percentile per-packet one-way delay: 66.548 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 212.99 Mbit/s
95th percentile per-packet one-way delay: 66.548 ms
Loss rate: 0.79%
```

Run 2: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 214.70 Mbit/s)   Flow 1 egress (mean 212.99 Mbit/s)
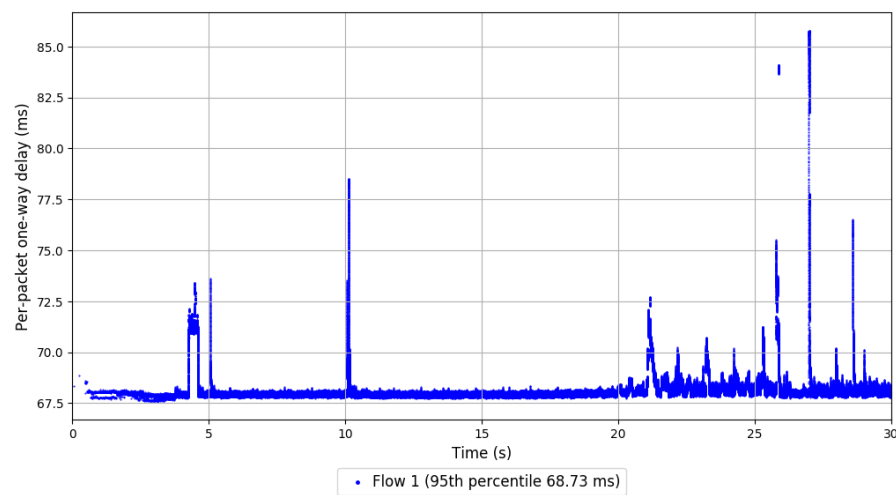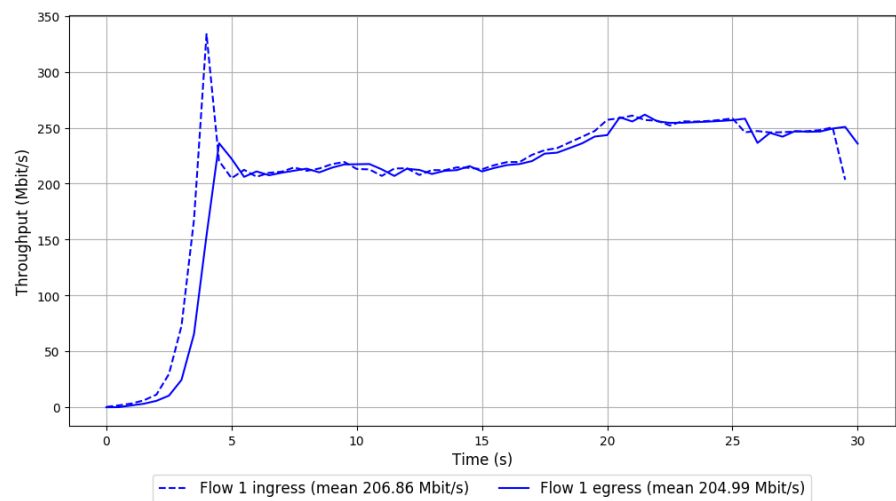

Flow 1 (95th percentile 66.55 ms)

```
Run 3: Statistics of PCC-Vivace

Start at: 2019-03-26 21:31:17
End at: 2019-03-26 21:31:47
Local clock offset: -3.038 ms
Remote clock offset: -32.208 ms


# Below is generated by plot.py at 2019-03-26 23:08:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.99 Mbit/s
95th percentile per-packet one-way delay: 68.729 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 204.99 Mbit/s
95th percentile per-packet one-way delay: 68.729 ms
Loss rate: 0.91%
```

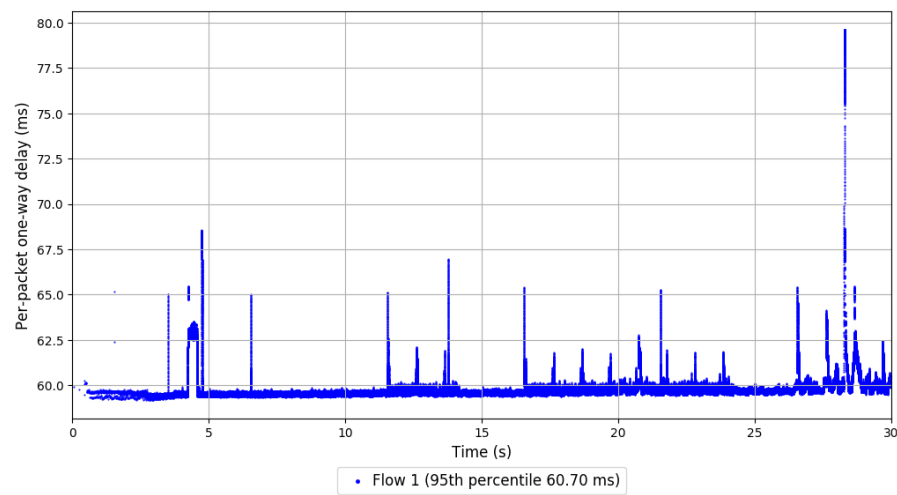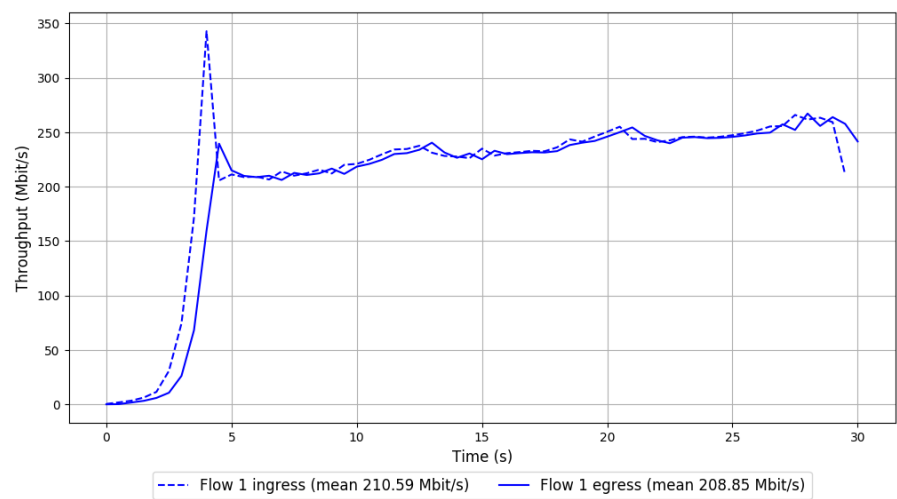Run 3: Report of PCC-Vivace — Data Link

```
Run 4: Statistics of PCC-Vivace

Start at: 2019-03-26 21:58:52
End at: 2019-03-26 21:59:22
Local clock offset: -0.759 ms
Remote clock offset: -40.432 ms


# Below is generated by plot.py at 2019-03-26 23:08:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.85 Mbit/s
95th percentile per-packet one-way delay: 60.704 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 208.85 Mbit/s
95th percentile per-packet one-way delay: 60.704 ms
Loss rate: 0.82%
```

Run 4: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 210.59 Mbit/s) ——— Flow 1 egress (mean 208.85 Mbit/s)

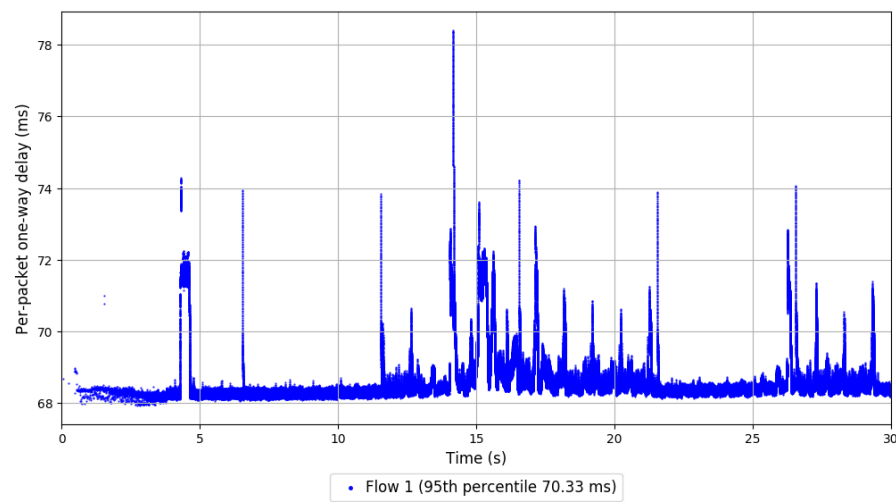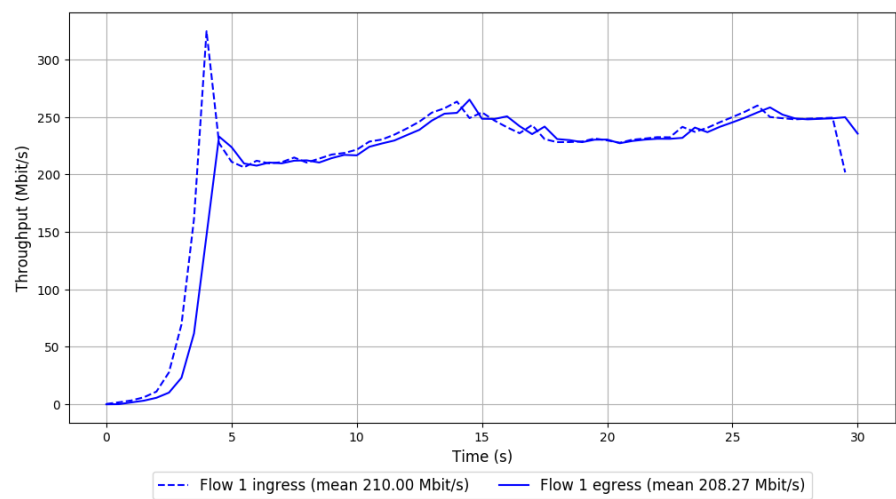

• Flow 1 (95th percentile 60.70 ms)

```
Run 5: Statistics of PCC-Vivace

Start at: 2019-03-26 22:32:03
End at: 2019-03-26 22:32:33
Local clock offset: 3.918 ms
Remote clock offset: -35.198 ms


# Below is generated by plot.py at 2019-03-26 23:08:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.27 Mbit/s
95th percentile per-packet one-way delay: 70.326 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 208.27 Mbit/s
95th percentile per-packet one-way delay: 70.326 ms
Loss rate: 0.82%
```

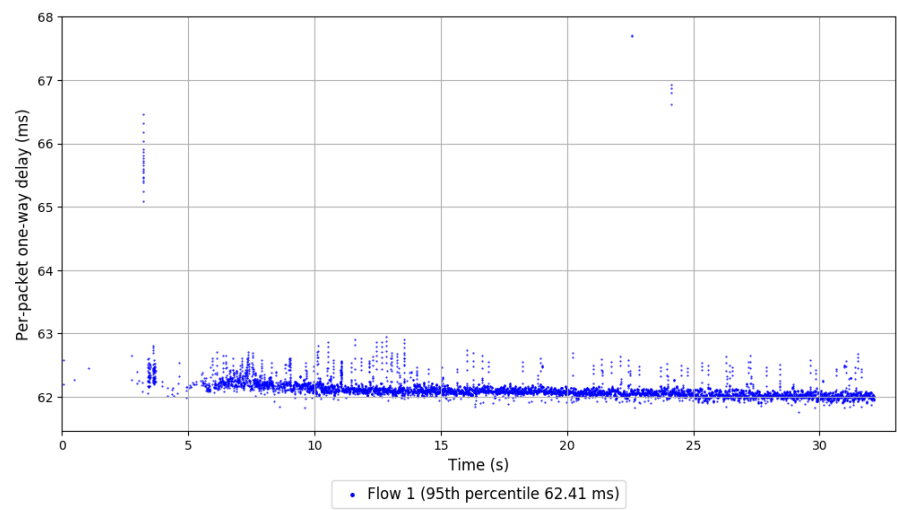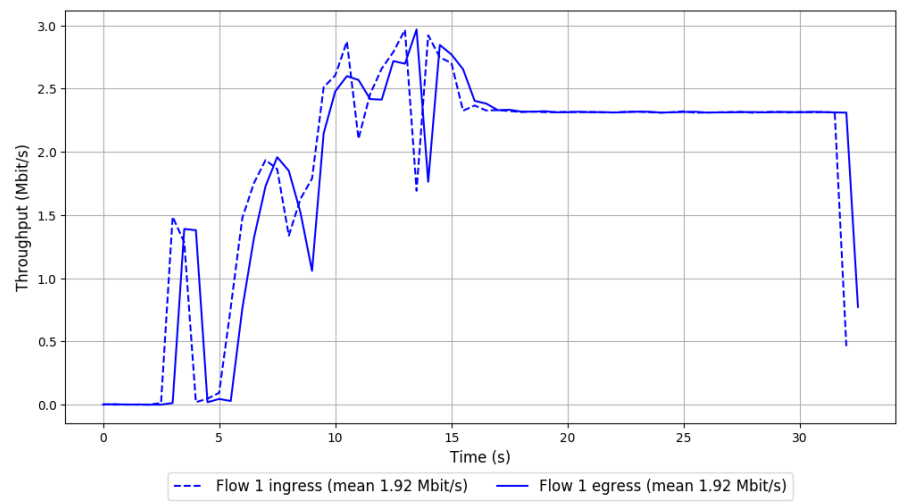# Run 5: Report of PCC-Vivace — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2019-03-26 20:23:23
End at: 2019-03-26 20:23:53
Local clock offset: 1.595 ms
Remote clock offset: -39.573 ms


# Below is generated by plot.py at 2019-03-26 23:08:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 62.409 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 62.409 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.92 Mbit/s) —— Flow 1 egress (mean 1.92 Mbit/s)

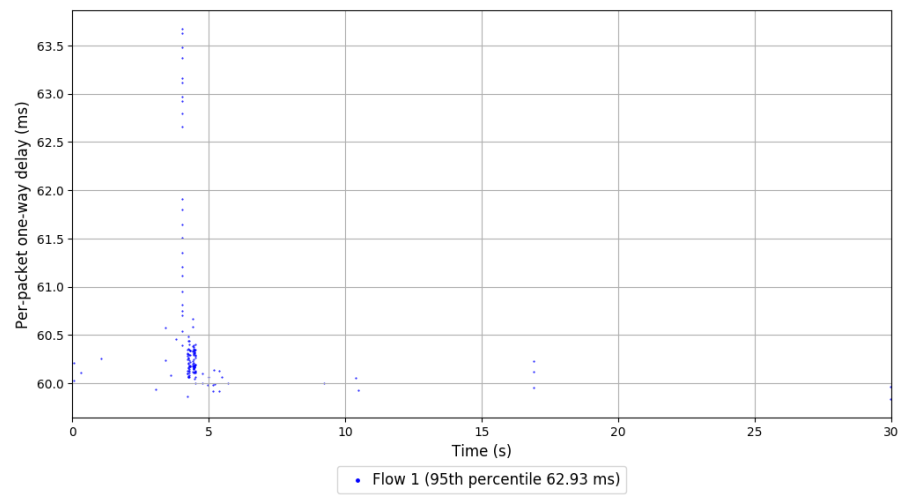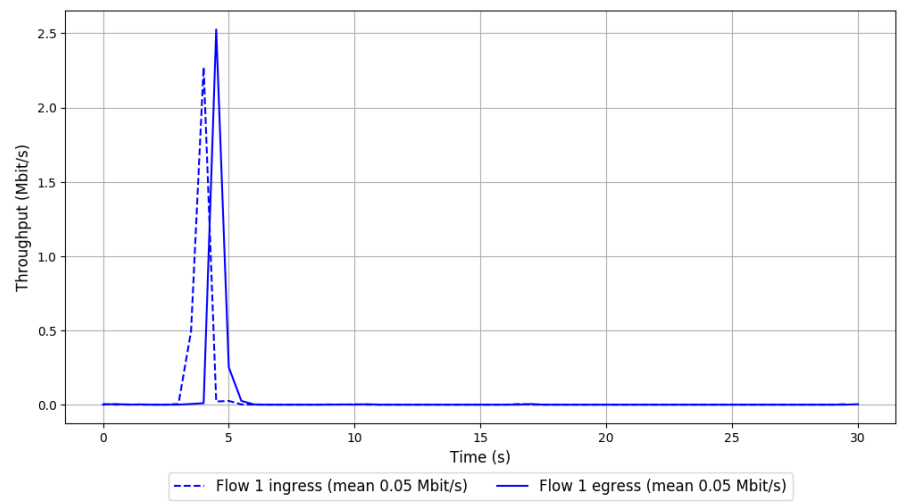

• Flow 1 (95th percentile 62.41 ms)

```
Run 2: Statistics of WebRTC media

Start at: 2019-03-26 20:50:55
End at: 2019-03-26 20:51:25
Local clock offset: -1.169 ms
Remote clock offset: -39.741 ms


# Below is generated by plot.py at 2019-03-26 23:08:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.927 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.927 ms
Loss rate: 0.00%
```

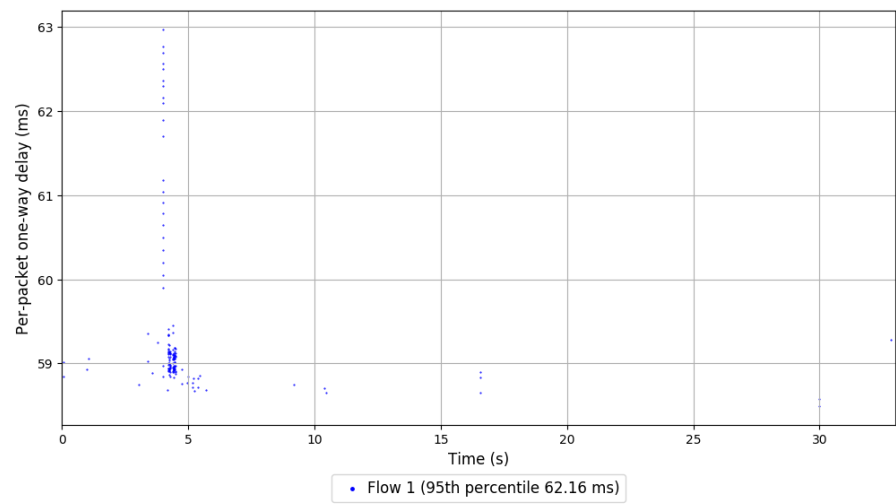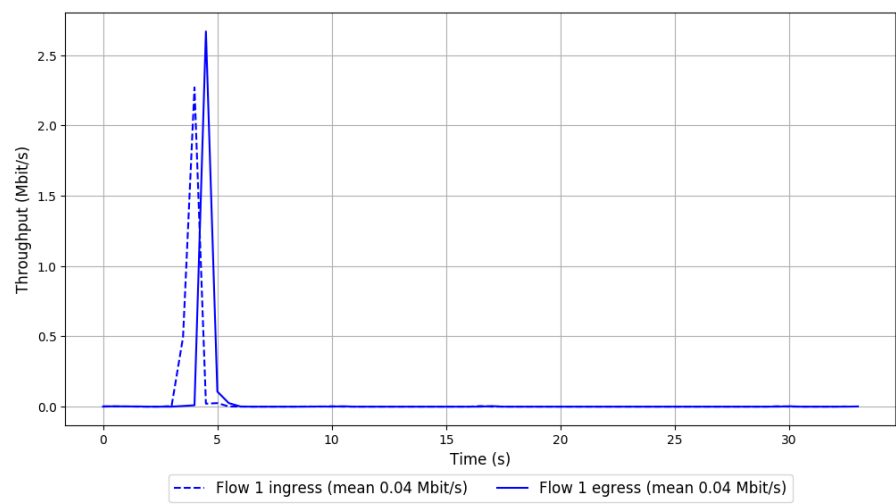## Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2019-03-26 21:18:22
End at: 2019-03-26 21:18:52
Local clock offset: -1.845 ms
Remote clock offset: -40.478 ms


# Below is generated by plot.py at 2019-03-26 23:08:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 62.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 62.162 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

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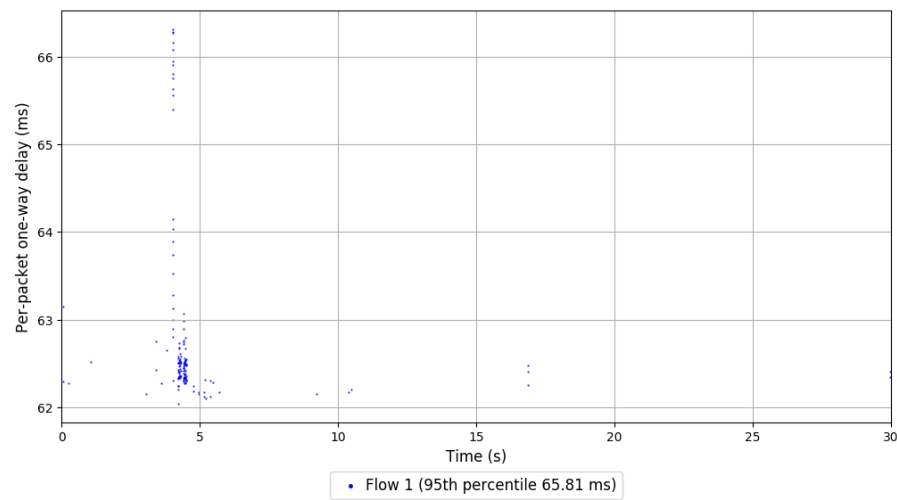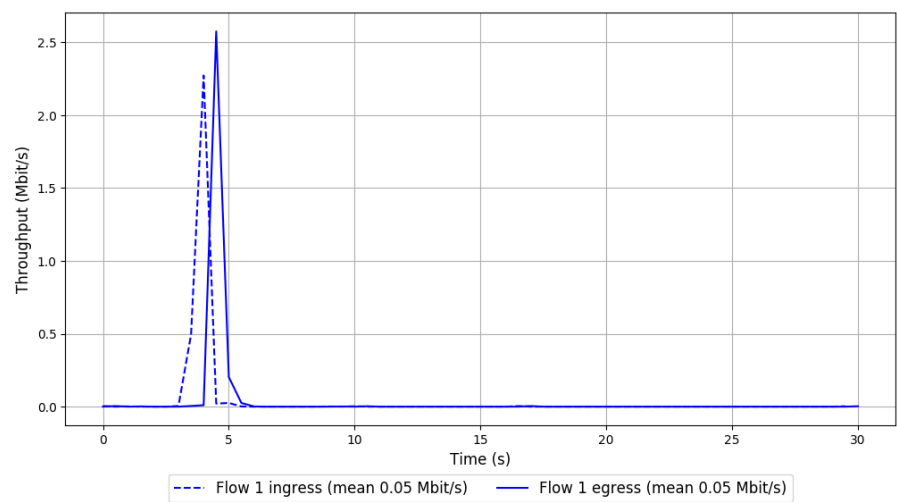

Flow 1 (95th percentile 62.16 ms)

```
Run 4: Statistics of WebRTC media

Start at: 2019-03-26 21:45:54
End at: 2019-03-26 21:46:24
Local clock offset: -5.856 ms
Remote clock offset: -37.39 ms


# Below is generated by plot.py at 2019-03-26 23:08:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.805 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.805 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 65.81 ms)

```
Run 5: Statistics of WebRTC media

Start at: 2019-03-26 22:19:12
End at: 2019-03-26 22:19:42
Local clock offset: 2.835 ms
Remote clock offset: -40.246 ms


# Below is generated by plot.py at 2019-03-26 23:08:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.259 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.259 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link