Pantheon Report

Generated at 2019-01-21 07:14:38 (UTC).

Data path: AWS India 1 on `ens5` (*local*) →India on `em1` (*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.
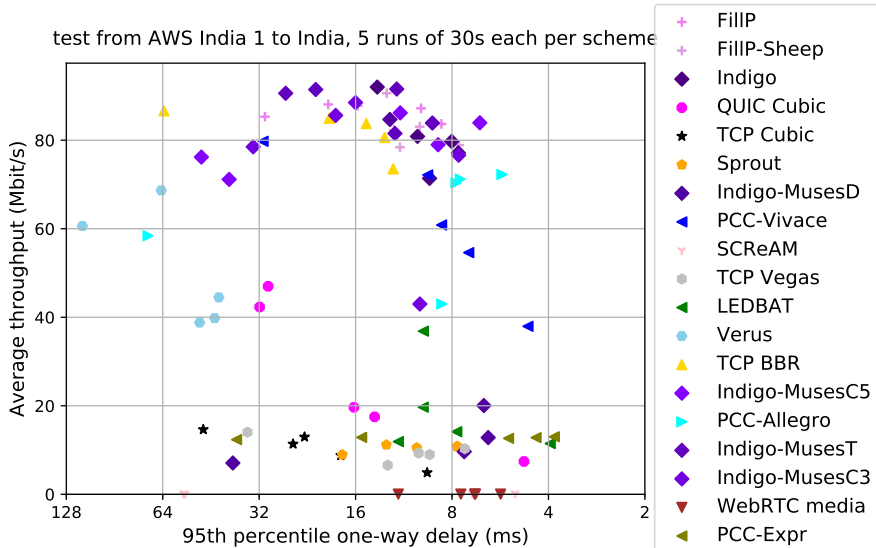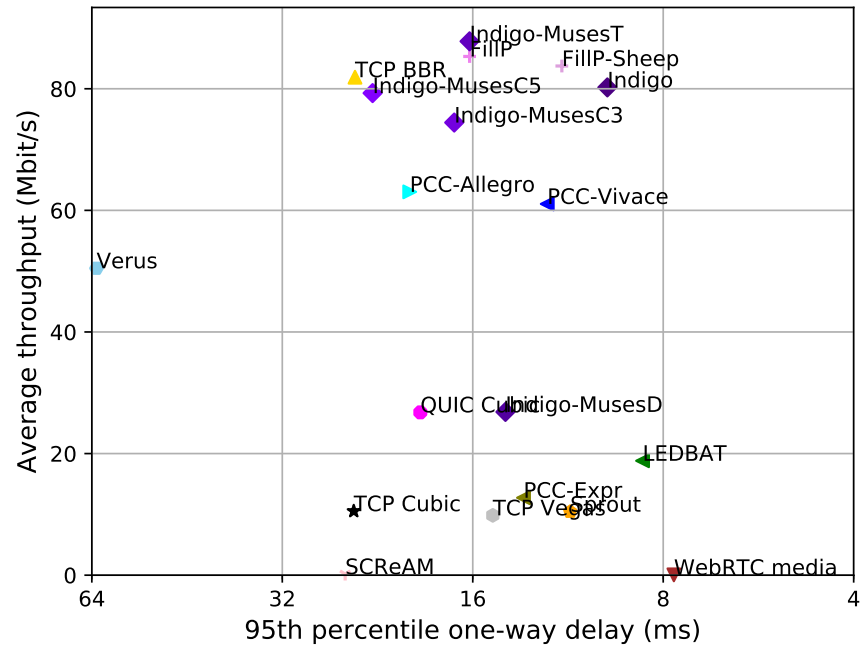
```
System info:
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
 M src/ScreamClient
 M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from AWS India 1 to India, 5 runs of 30s each per scheme
(mean of all runs by scheme)

test from AWS India 1 to India, 5 runs of 30s each per scheme

3

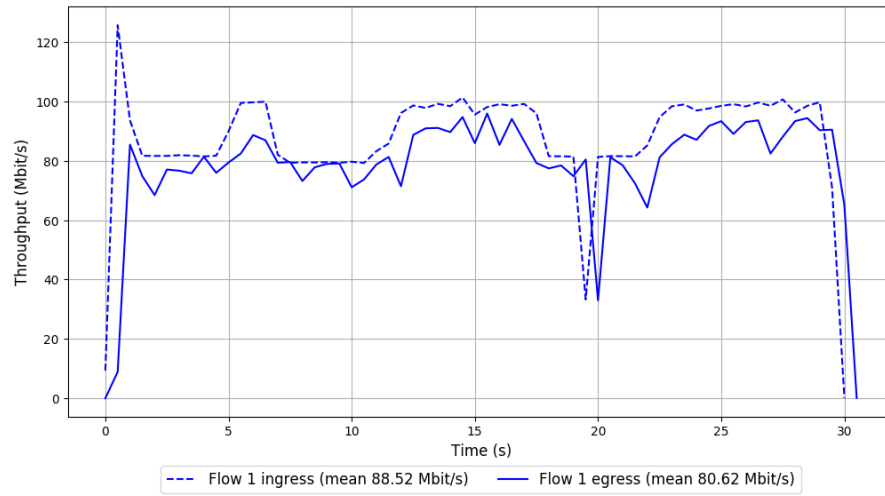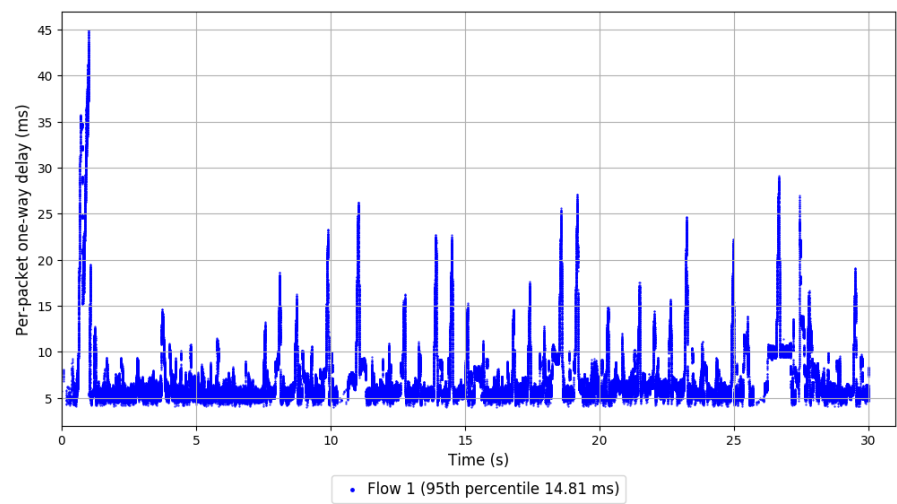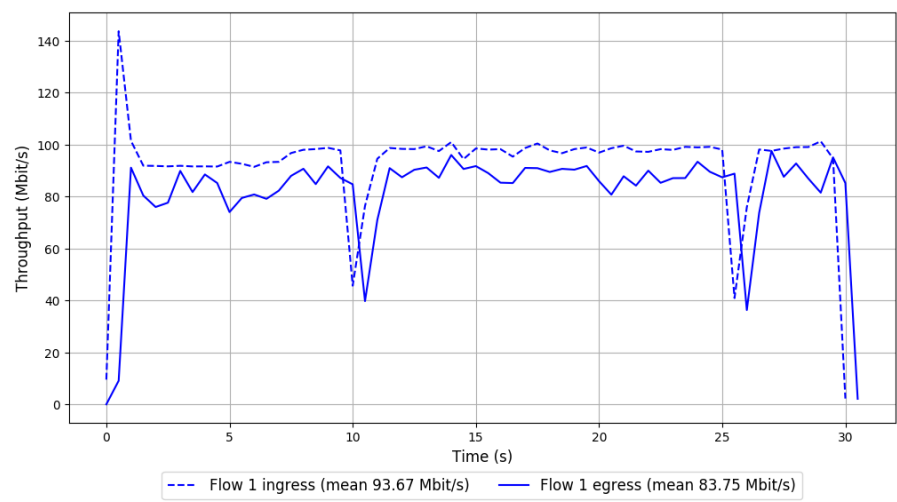| scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	81.90	24.56	9.14
Copa	0	N/A	N/A	N/A
TCP Cubic	5	10.52	24.67	1.53
FillP	5	85.31	16.18	8.95
FillP-Sheep	5	83.74	11.57	7.04
Indigo	5	80.22	9.80	5.27
Indigo-MusesC3	5	74.44	17.12	7.18
Indigo-MusesC5	5	79.28	23.04	8.96
Indigo-MusesD	5	26.85	14.21	0.81
Indigo-MusesT	5	87.80	16.19	12.81
LEDBAT	5	18.81	8.63	0.09
PCC-Allegro	5	63.04	20.12	4.70
PCC-Expr	5	12.73	13.30	33.53
QUIC Cubic	5	26.78	19.36	3.72
SCReAM	5	0.18	25.45	0.21
Sprout	5	10.44	11.22	0.37
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	9.84	14.87	1.61
Verus	5	50.48	62.92	38.44
PCC-Vivace	5	61.06	12.20	3.87
WebRTC media	5	0.05	7.70	1.79

```
Run 1: Statistics of TCP BBR

Start at: 2019-01-21 04:53:19
End at: 2019-01-21 04:53:49
Local clock offset: -0.866 ms
Remote clock offset: -7.582 ms


# Below is generated by plot.py at 2019-01-21 07:08:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.62 Mbit/s
95th percentile per-packet one-way delay: 12.995 ms
Loss rate: 8.92%
-- Flow 1:
Average throughput: 80.62 Mbit/s
95th percentile per-packet one-way delay: 12.995 ms
Loss rate: 8.92%
```
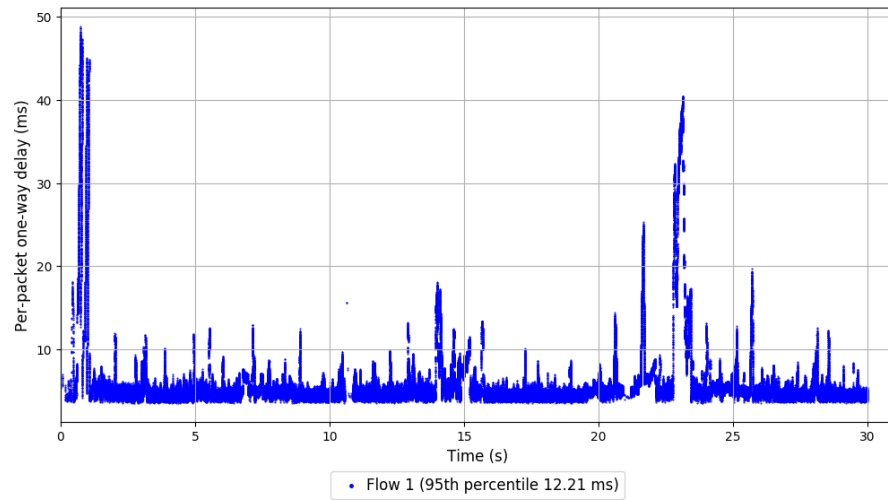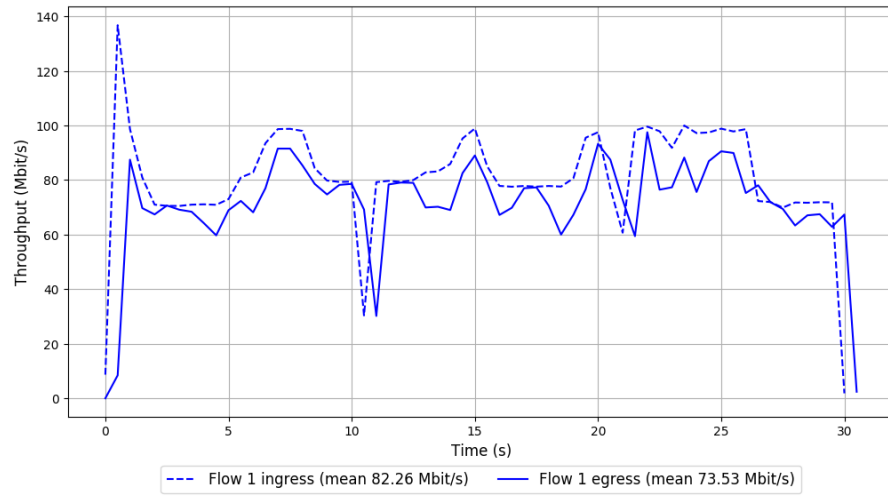
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2019-01-21 05:20:10
End at: 2019-01-21 05:20:40
Local clock offset: -0.017 ms
Remote clock offset: -6.543 ms

# Below is generated by plot.py at 2019-01-21 07:08:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.75 Mbit/s
95th percentile per-packet one-way delay: 14.815 ms
Loss rate: 10.59%
-- Flow 1:
Average throughput: 83.75 Mbit/s
95th percentile per-packet one-way delay: 14.815 ms
Loss rate: 10.59%
```
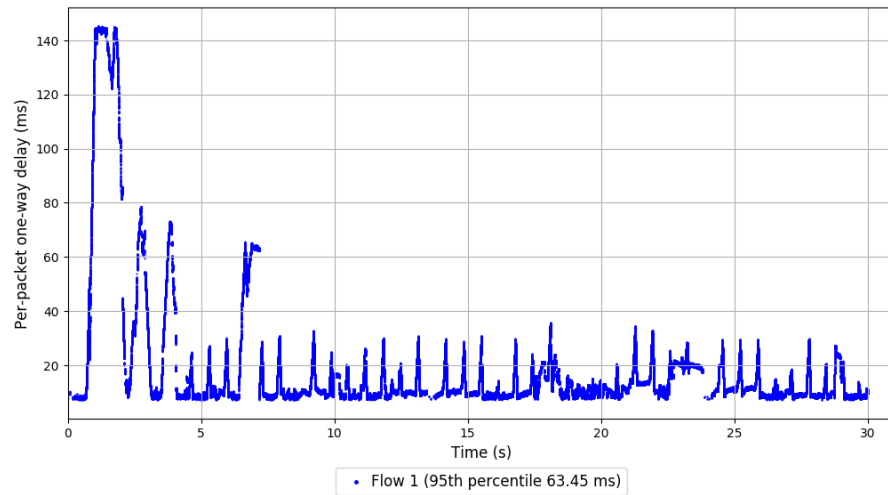
Run 2: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.67 Mbit/s)   Flow 1 egress (mean 83.75 Mbit/s)

Flow 1 (95th percentile 14.81 ms)

8

```
Run 3: Statistics of TCP BBR

Start at: 2019-01-21 05:47:17
End at: 2019-01-21 05:47:47
Local clock offset: -0.355 ms
Remote clock offset: -4.585 ms


# Below is generated by plot.py at 2019-01-21 07:08:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.53 Mbit/s
95th percentile per-packet one-way delay: 12.212 ms
Loss rate: 10.61%
-- Flow 1:
Average throughput: 73.53 Mbit/s
95th percentile per-packet one-way delay: 12.212 ms
Loss rate: 10.61%
```
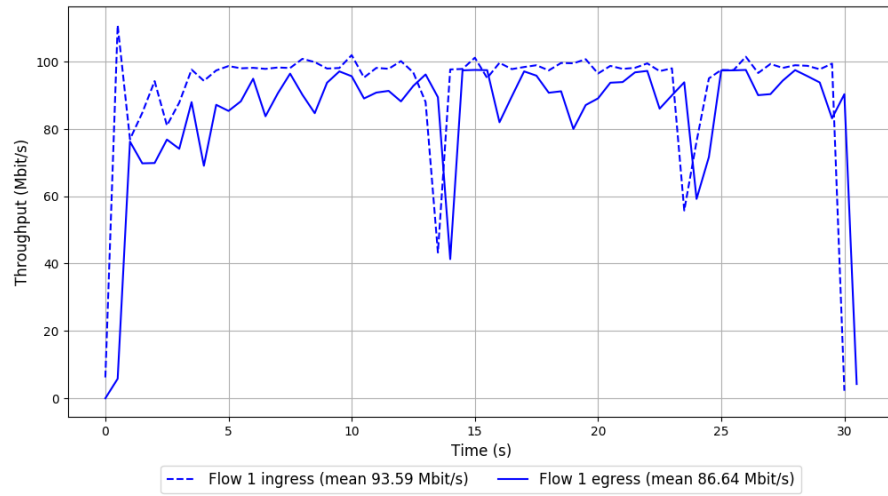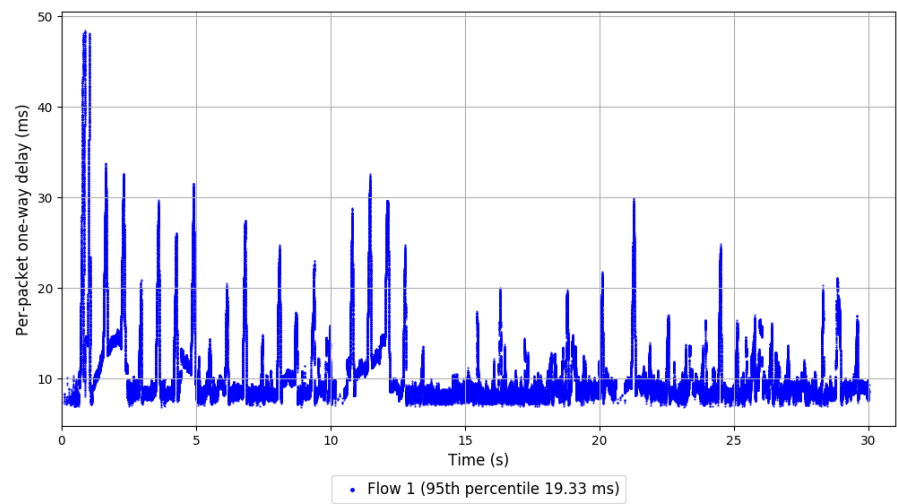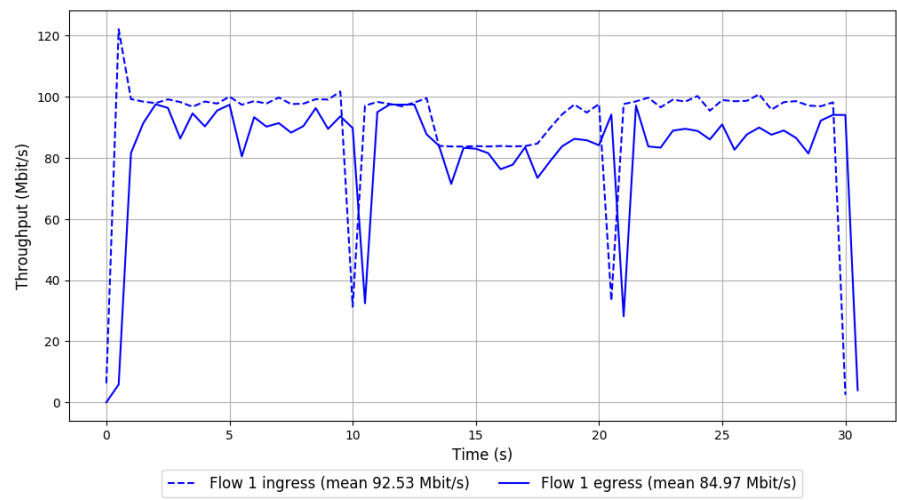
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 82.26 Mbit/s) ---- Flow 1 egress (mean 73.53 Mbit/s)

• Flow 1 (95th percentile 12.21 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2019-01-21 06:14:09
End at: 2019-01-21 06:14:39
Local clock offset: 1.401 ms
Remote clock offset: 0.582 ms


# Below is generated by plot.py at 2019-01-21 07:08:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.64 Mbit/s
95th percentile per-packet one-way delay: 63.454 ms
Loss rate: 7.41%
-- Flow 1:
Average throughput: 86.64 Mbit/s
95th percentile per-packet one-way delay: 63.454 ms
Loss rate: 7.41%
```

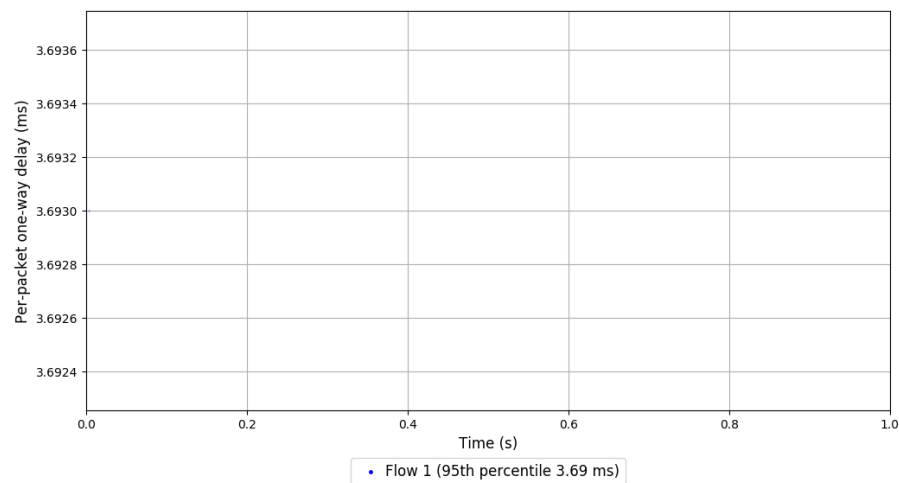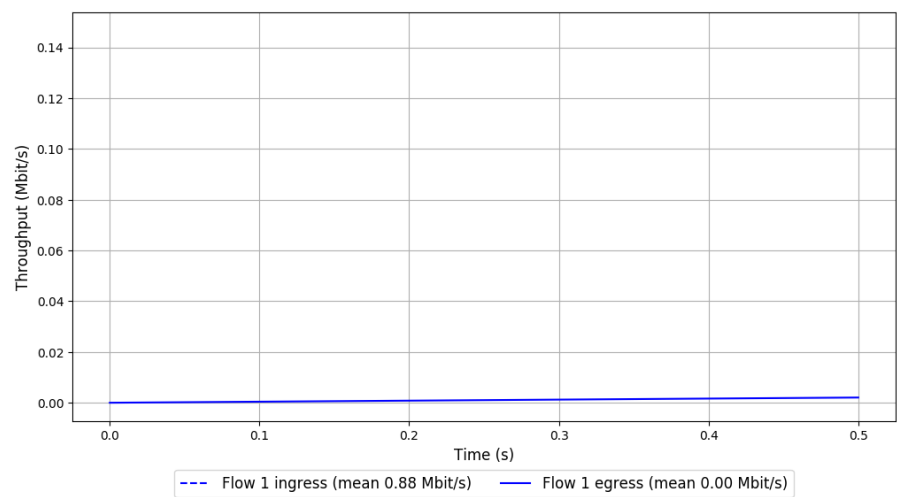Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2019-01-21 06:41:34
End at: 2019-01-21 06:42:04
Local clock offset: 1.446 ms
Remote clock offset: -0.809 ms


# Below is generated by plot.py at 2019-01-21 07:08:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.97 Mbit/s
95th percentile per-packet one-way delay: 19.327 ms
Loss rate: 8.17%
-- Flow 1:
Average throughput: 84.97 Mbit/s
95th percentile per-packet one-way delay: 19.327 ms
Loss rate: 8.17%
```

Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 92.53 Mbit/s) ---- Flow 1 egress (mean 84.97 Mbit/s) ——

• Flow 1 (95th percentile 19.33 ms)

14

```
Run 1: Statistics of Copa

Start at: 2019-01-21 05:19:04
End at: 2019-01-21 05:19:34
Local clock offset: 0.469 ms
Remote clock offset: -7.932 ms
```
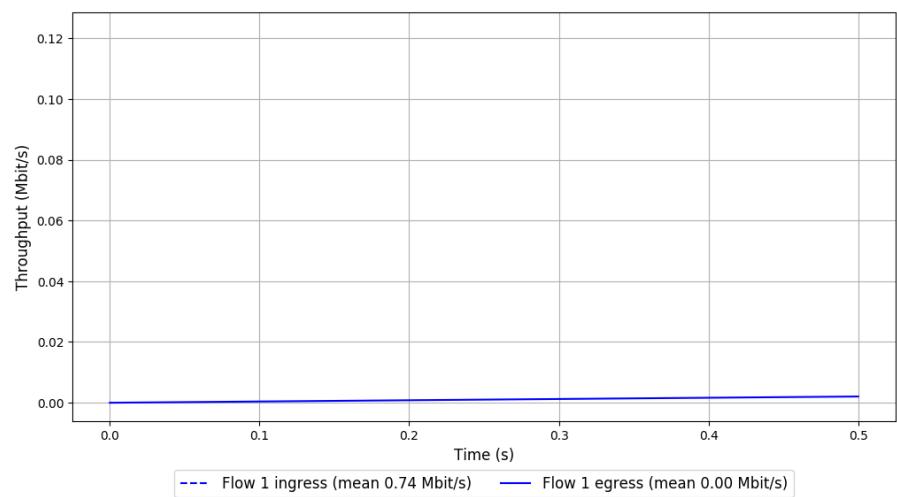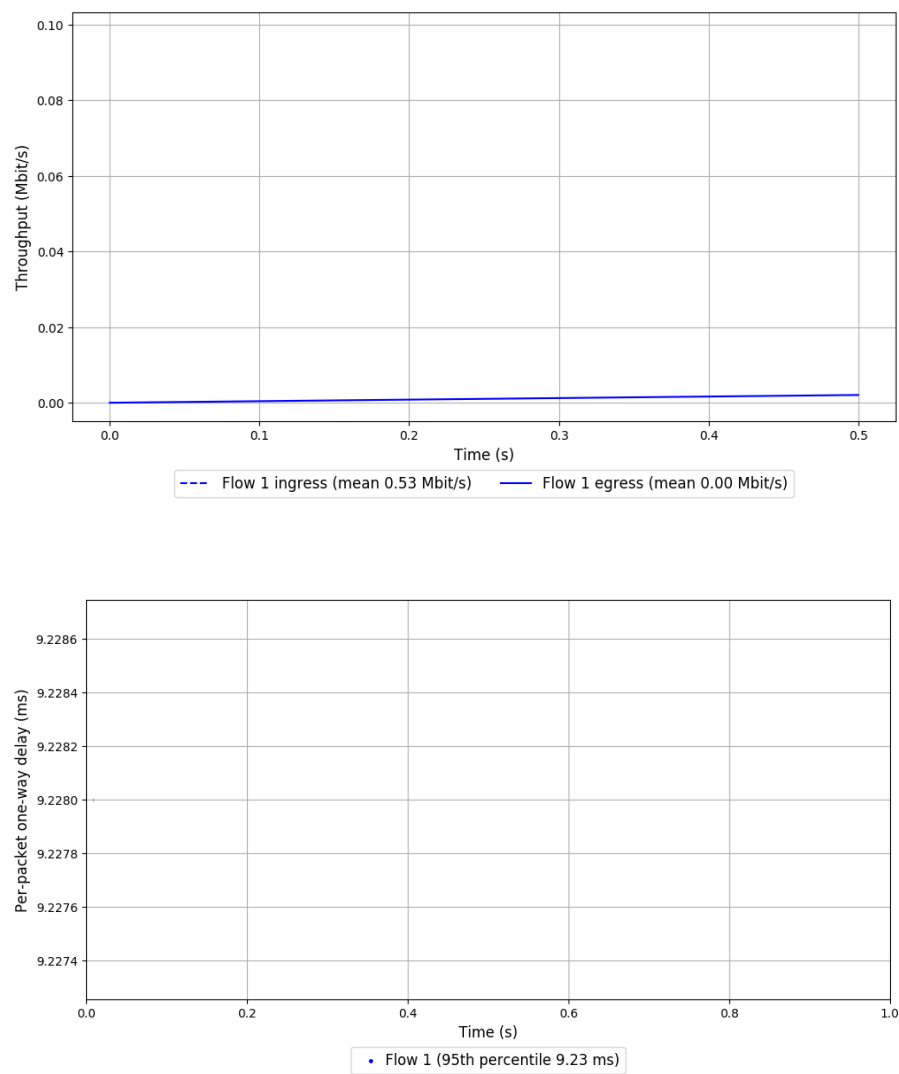
Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 0.88 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 3.69 ms)
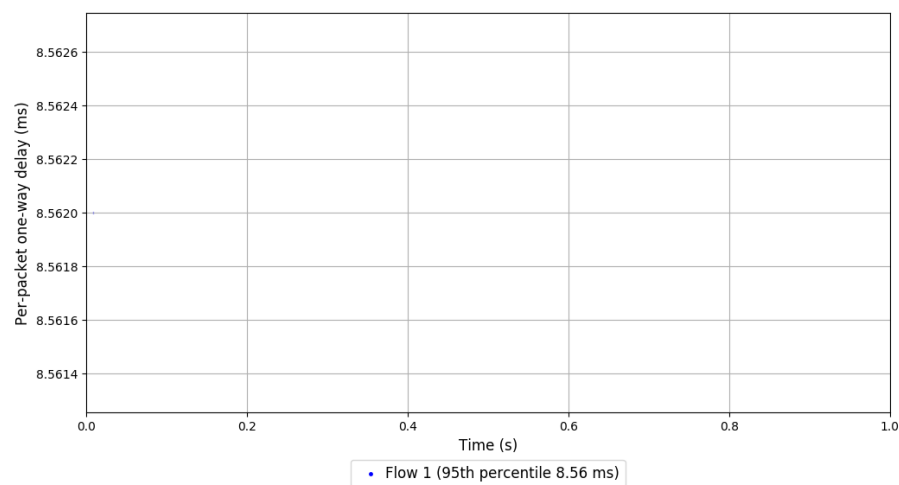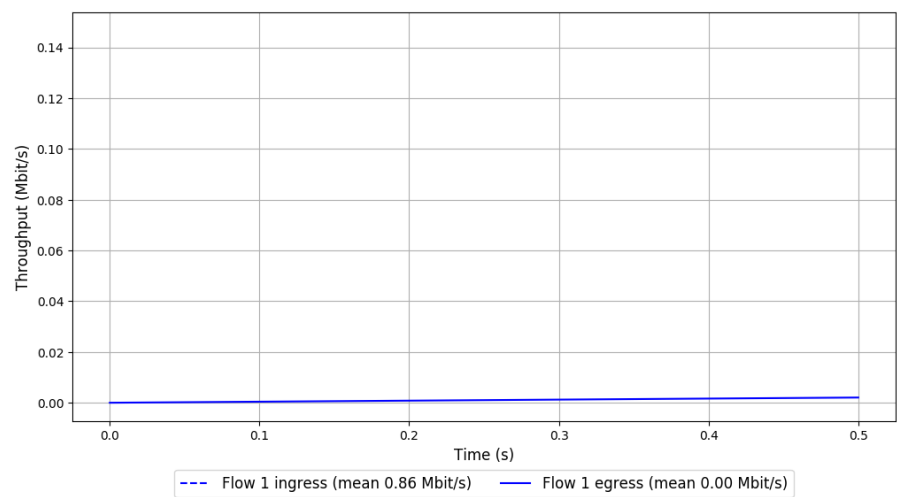
```
Run 2: Statistics of Copa

Start at: 2019-01-21 05:46:11
End at: 2019-01-21 05:46:41
Local clock offset: -0.269 ms
Remote clock offset: -7.833 ms
```

Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 0.74 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 1.29 ms)

18

```
Run 3: Statistics of Copa

Start at: 2019-01-21 06:13:04
End at: 2019-01-21 06:13:34
Local clock offset: 1.772 ms
Remote clock offset: 1.045 ms
```
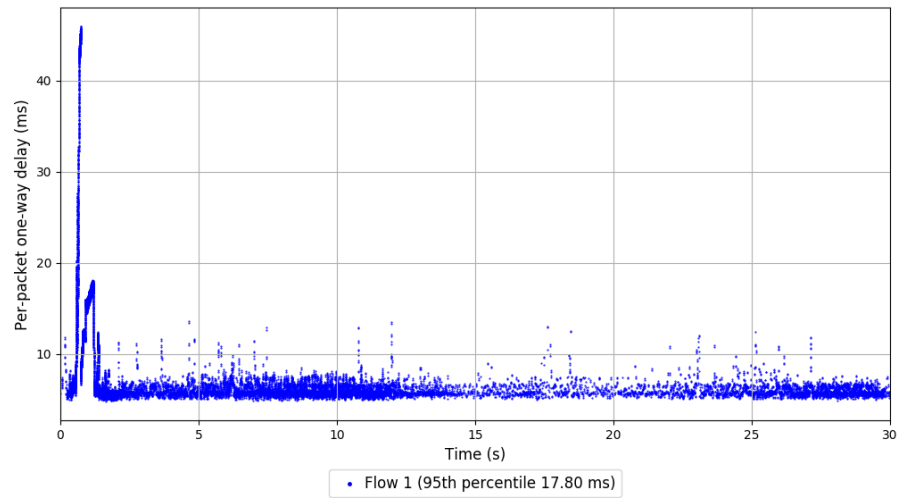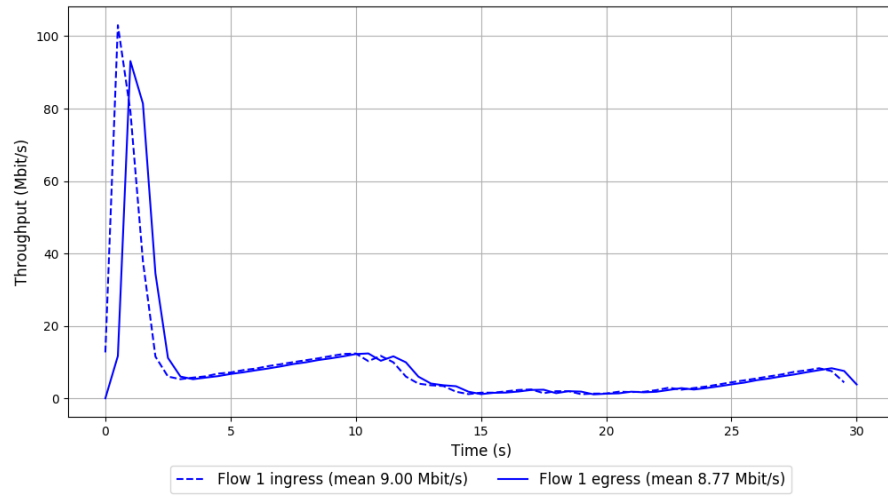
Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 0.53 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 9.23 ms)

```
Run 4: Statistics of Copa

Start at: 2019-01-21 06:40:28
End at: 2019-01-21 06:40:58
Local clock offset: -0.367 ms
Remote clock offset: -0.621 ms
```

Run 4: Report of Copa — Data Link

Flow 1 ingress (mean 0.80 Mbit/s) Flow 1 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 9.93 ms)

Run 5: Statistics of Copa

Start at: 2019-01-21 07:05:46
End at: 2019-01-21 07:06:16
Local clock offset: -1.472 ms
Remote clock offset: -5.76 ms

Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 0.86 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)
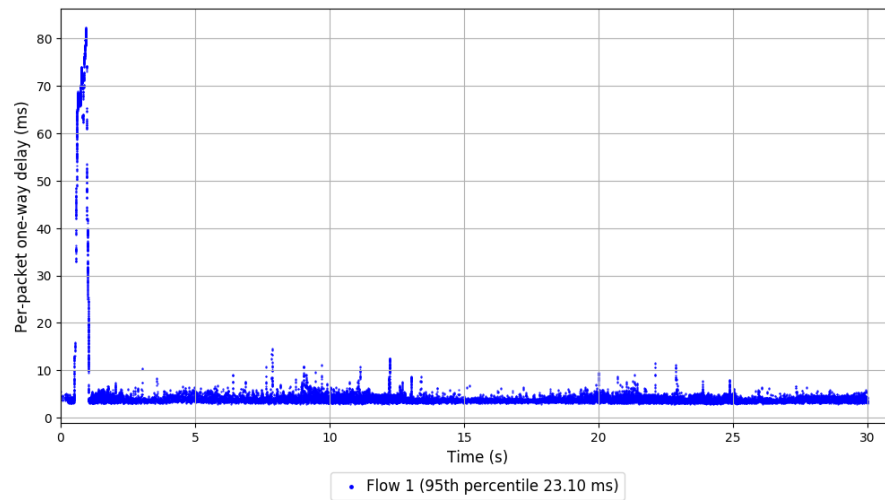

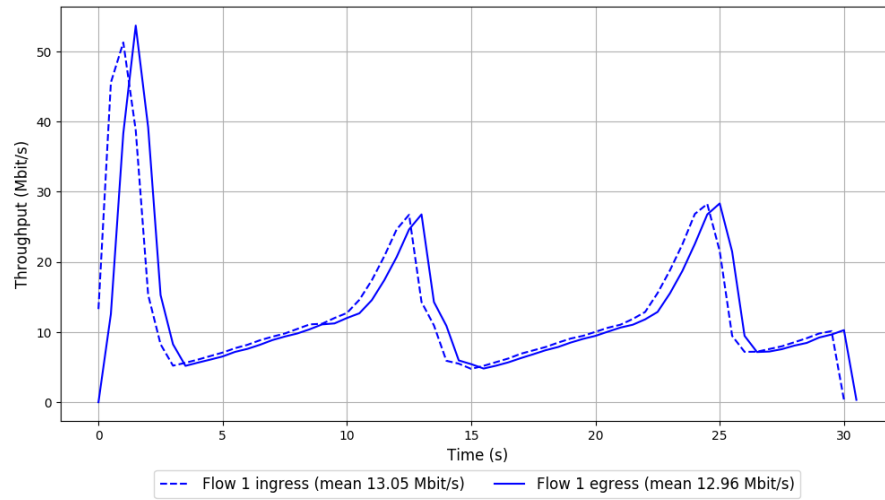Flow 1 (95th percentile 8.56 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2019-01-21 04:54:51
End at: 2019-01-21 04:55:21
Local clock offset: 0.29 ms
Remote clock offset: -5.984 ms


# Below is generated by plot.py at 2019-01-21 07:08:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 17.797 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 17.797 ms
Loss rate: 2.54%
```

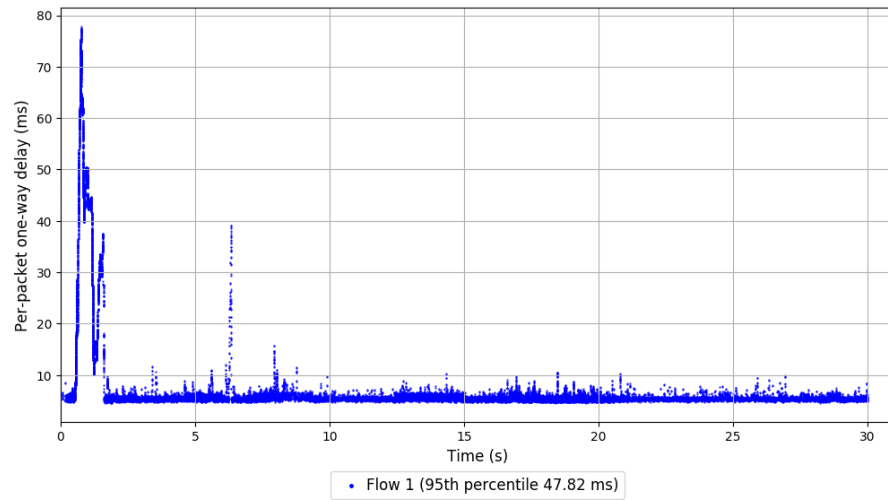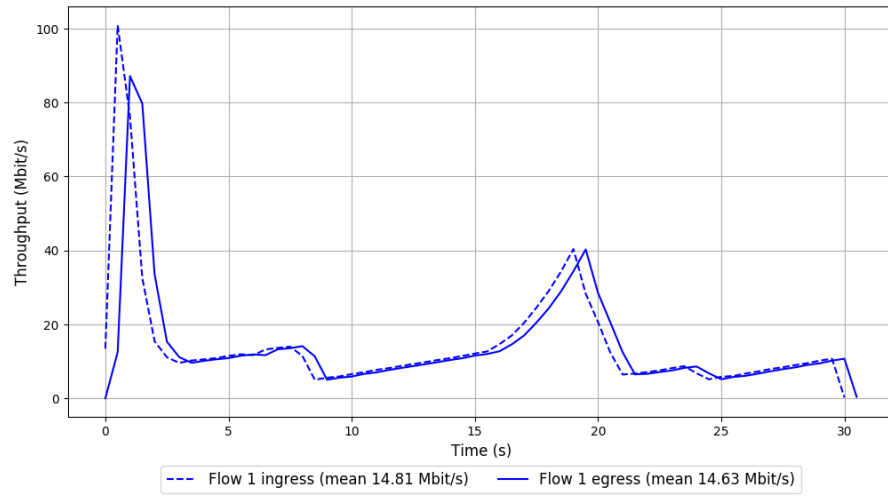Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2019-01-21 05:21:30
End at: 2019-01-21 05:22:00
Local clock offset: 0.71 ms
Remote clock offset: -6.728 ms


# Below is generated by plot.py at 2019-01-21 07:08:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.96 Mbit/s
95th percentile per-packet one-way delay: 23.096 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 12.96 Mbit/s
95th percentile per-packet one-way delay: 23.096 ms
Loss rate: 0.69%
```
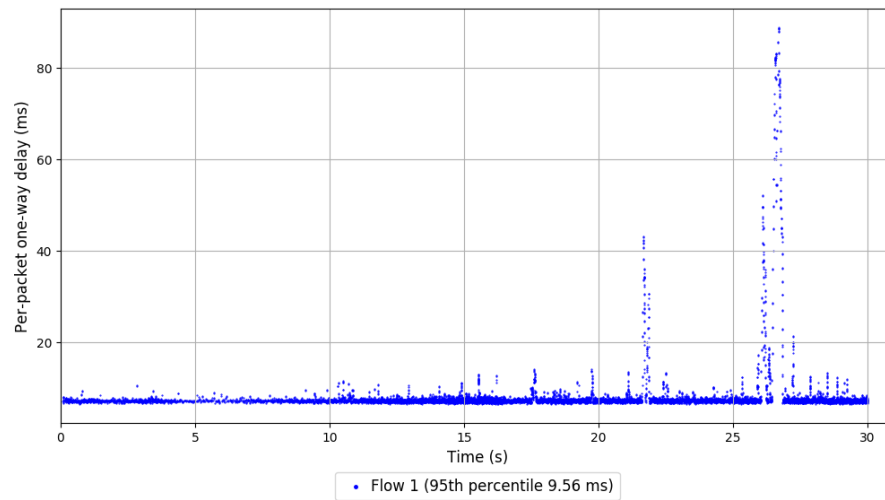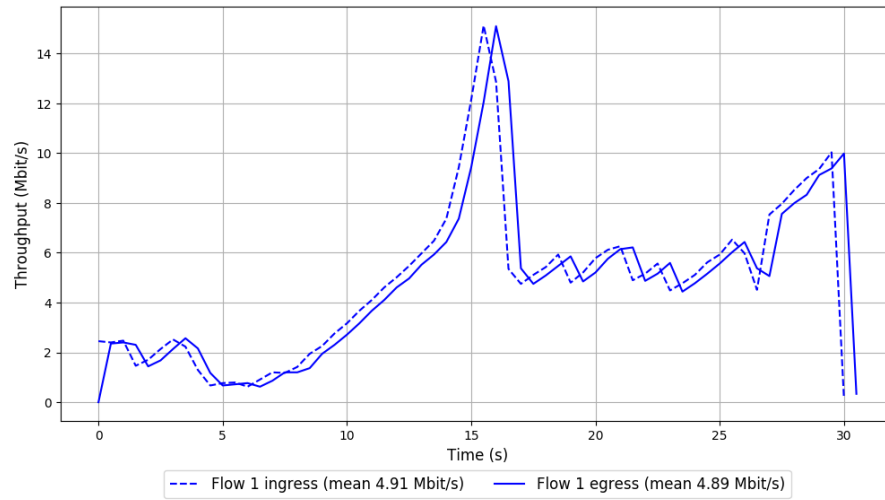
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2019-01-21 05:48:52
End at: 2019-01-21 05:49:22
Local clock offset: -1.67 ms
Remote clock offset: -5.355 ms


# Below is generated by plot.py at 2019-01-21 07:08:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.63 Mbit/s
95th percentile per-packet one-way delay: 47.820 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 14.63 Mbit/s
95th percentile per-packet one-way delay: 47.820 ms
Loss rate: 1.18%
```
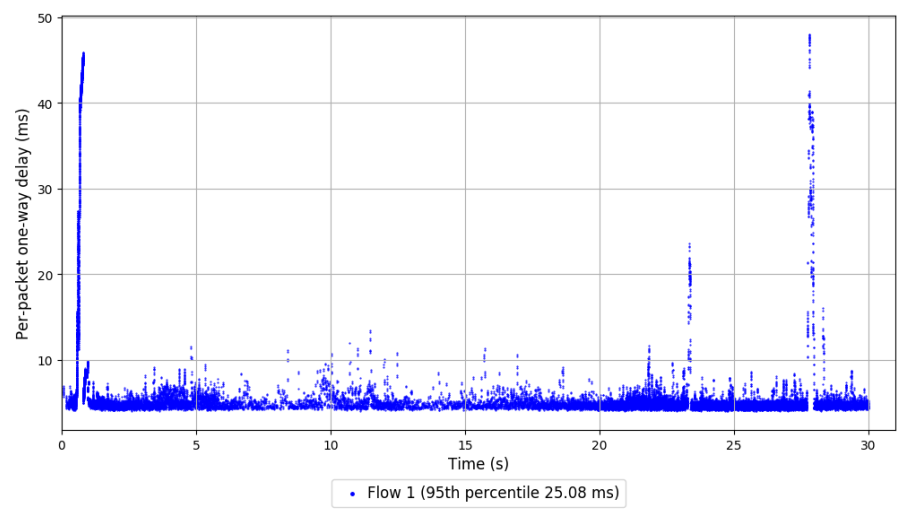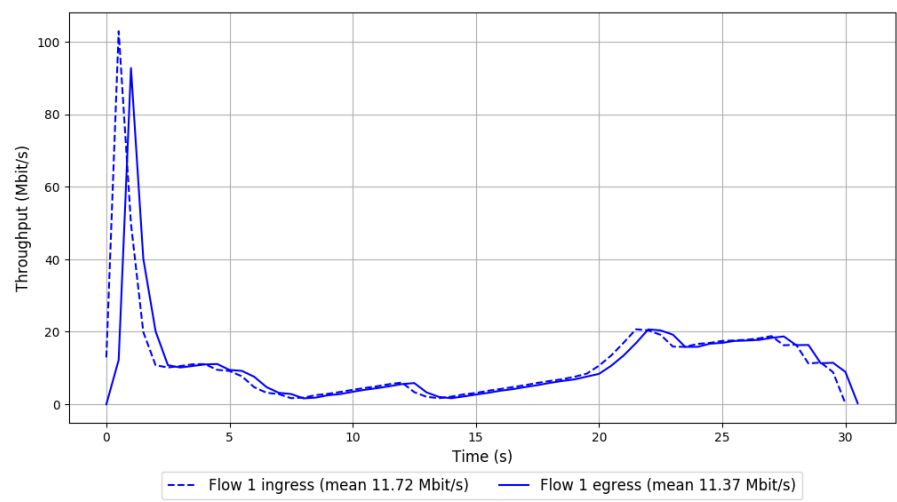
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 14.81 Mbit/s) —— Flow 1 egress (mean 14.63 Mbit/s)

• Flow 1 (95th percentile 47.82 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2019-01-21 06:15:44
End at: 2019-01-21 06:16:14
Local clock offset: 0.286 ms
Remote clock offset: -1.838 ms


# Below is generated by plot.py at 2019-01-21 07:08:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.89 Mbit/s
95th percentile per-packet one-way delay: 9.565 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 4.89 Mbit/s
95th percentile per-packet one-way delay: 9.565 ms
Loss rate: 0.26%
```

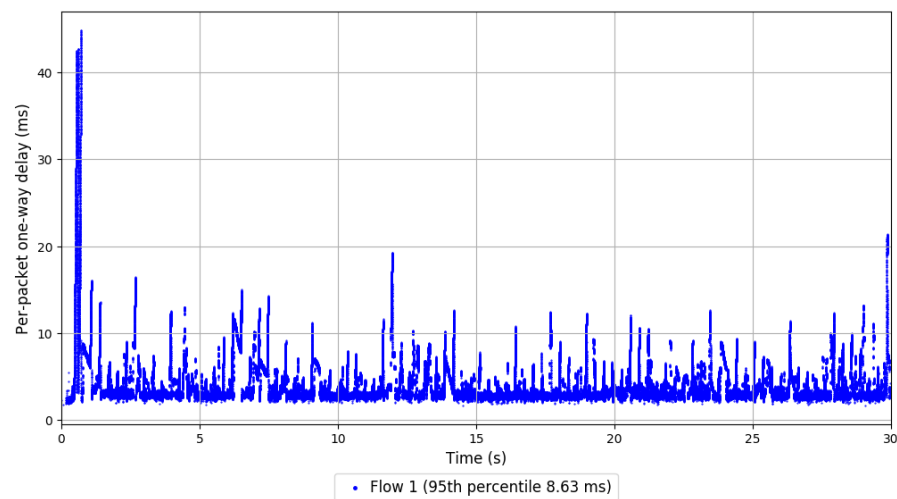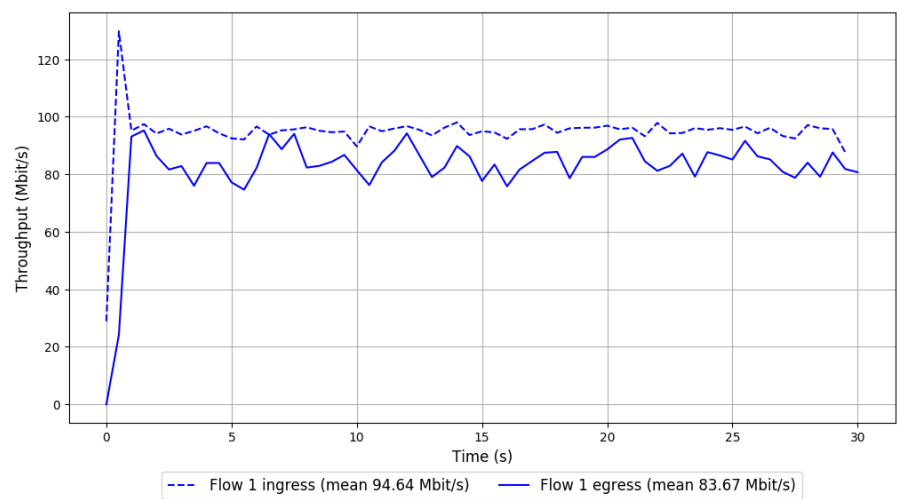Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2019-01-21 06:43:00
End at: 2019-01-21 06:43:30
Local clock offset: -0.047 ms
Remote clock offset: -4.727 ms


# Below is generated by plot.py at 2019-01-21 07:08:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.37 Mbit/s
95th percentile per-packet one-way delay: 25.080 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 11.37 Mbit/s
95th percentile per-packet one-way delay: 25.080 ms
Loss rate: 2.97%
```

Run 5: Report of TCP Cubic — Data Link

- - - Flow 1 ingress (mean 11.72 Mbit/s) —— Flow 1 egress (mean 11.37 Mbit/s)
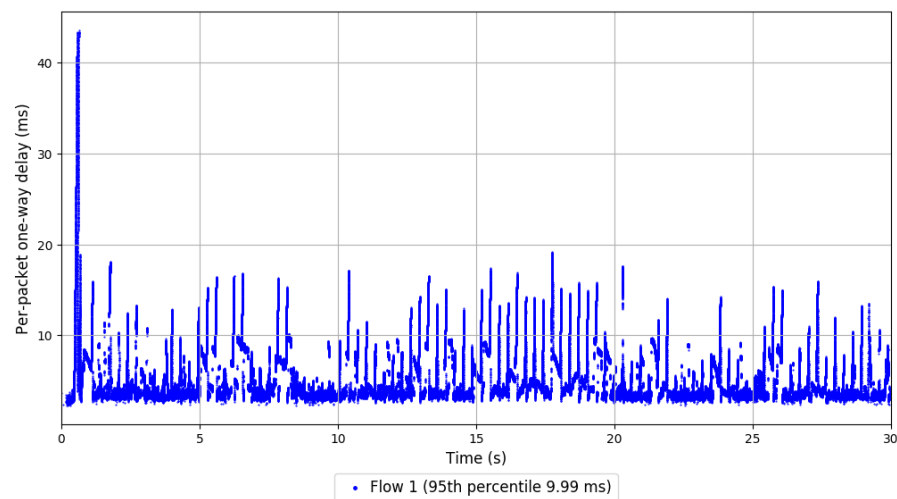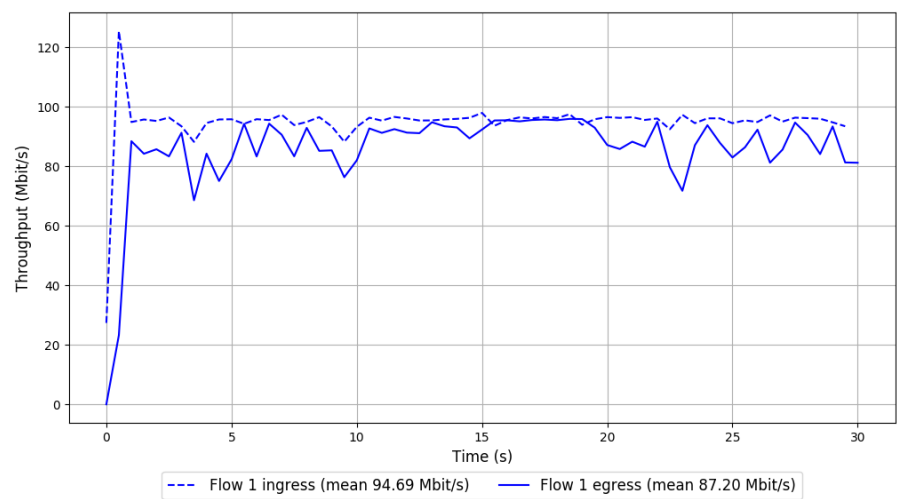

• Flow 1 (95th percentile 25.08 ms)

```
Run 1: Statistics of FillP

Start at: 2019-01-21 05:17:49
End at: 2019-01-21 05:18:19
Local clock offset: 1.954 ms
Remote clock offset: -7.205 ms


# Below is generated by plot.py at 2019-01-21 07:08:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.67 Mbit/s
95th percentile per-packet one-way delay: 8.632 ms
Loss rate: 11.58%
-- Flow 1:
Average throughput: 83.67 Mbit/s
95th percentile per-packet one-way delay: 8.632 ms
Loss rate: 11.58%
```

Run 1: Report of FillP — Data Link

```
Run 2: Statistics of FillP

Start at: 2019-01-21 05:44:37
End at: 2019-01-21 05:45:07
Local clock offset: -0.665 ms
Remote clock offset: -5.997 ms


# Below is generated by plot.py at 2019-01-21 07:08:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.20 Mbit/s
95th percentile per-packet one-way delay: 9.995 ms
Loss rate: 7.91%
-- Flow 1:
Average throughput: 87.20 Mbit/s
95th percentile per-packet one-way delay: 9.995 ms
Loss rate: 7.91%
```
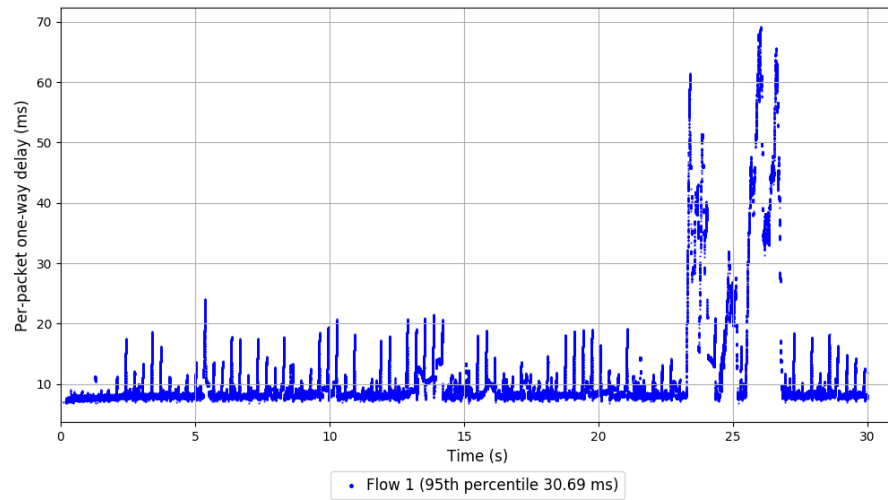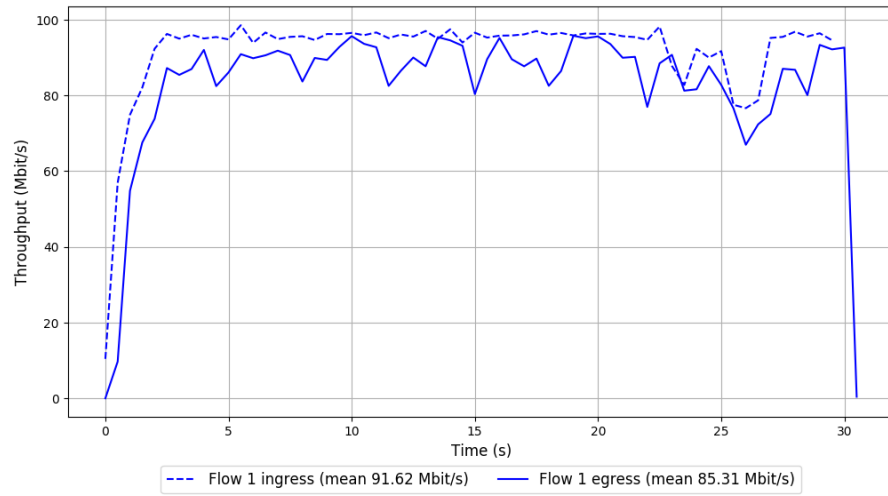
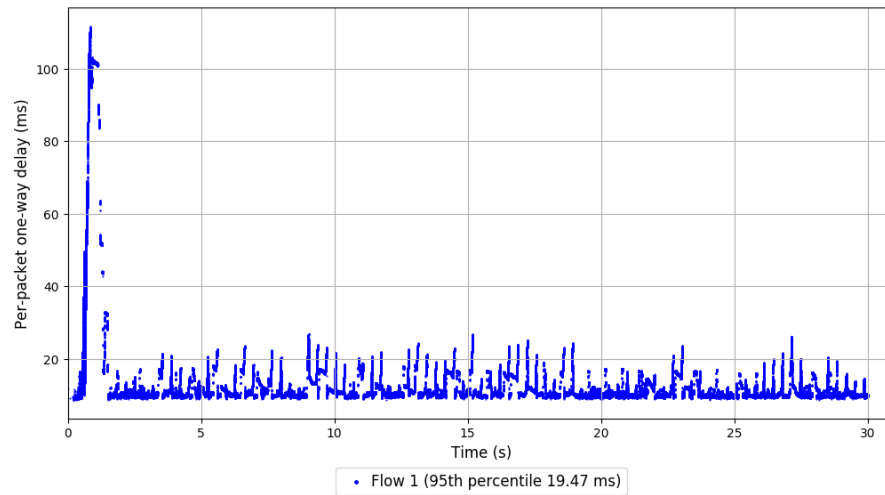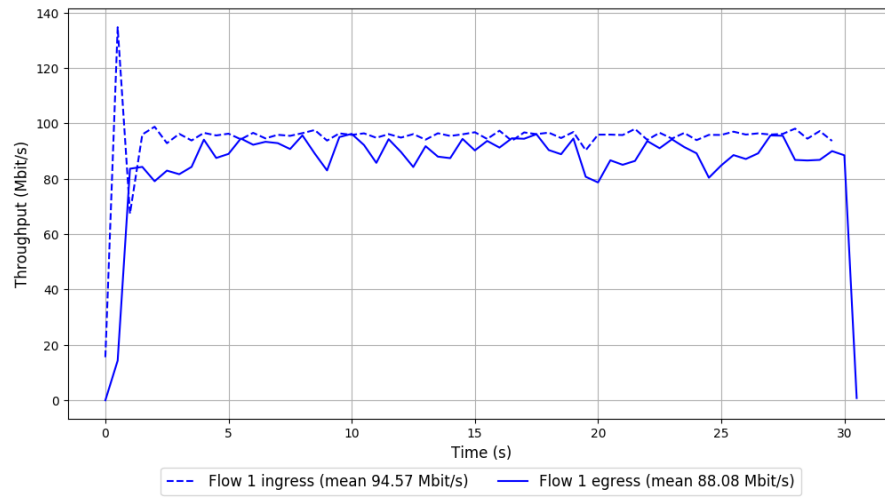# Run 2: Report of FillP — Data Link

Flow 1 ingress (mean 94.69 Mbit/s)   Flow 1 egress (mean 87.20 Mbit/s)

Flow 1 (95th percentile 9.99 ms)

```
Run 3: Statistics of FillP

Start at: 2019-01-21 06:11:38
End at: 2019-01-21 06:12:09
Local clock offset: 1.306 ms
Remote clock offset: 0.108 ms


# Below is generated by plot.py at 2019-01-21 07:08:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.31 Mbit/s
95th percentile per-packet one-way delay: 30.693 ms
Loss rate: 6.87%
-- Flow 1:
Average throughput: 85.31 Mbit/s
95th percentile per-packet one-way delay: 30.693 ms
Loss rate: 6.87%
```
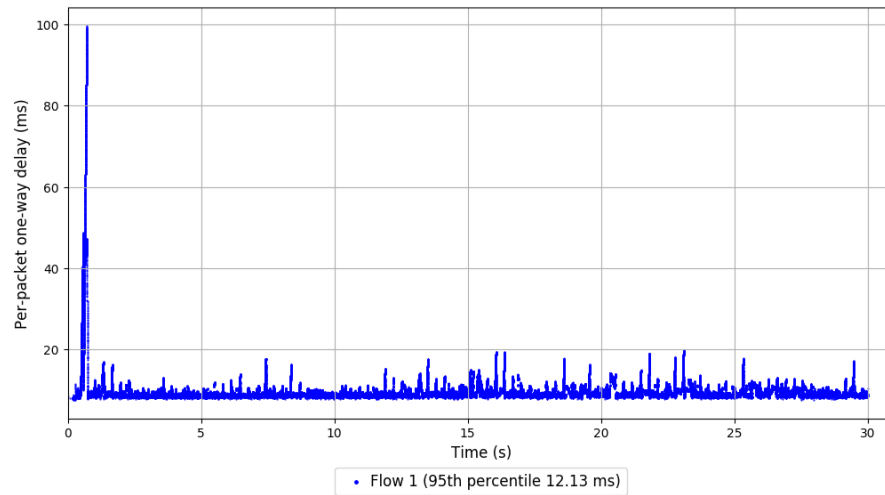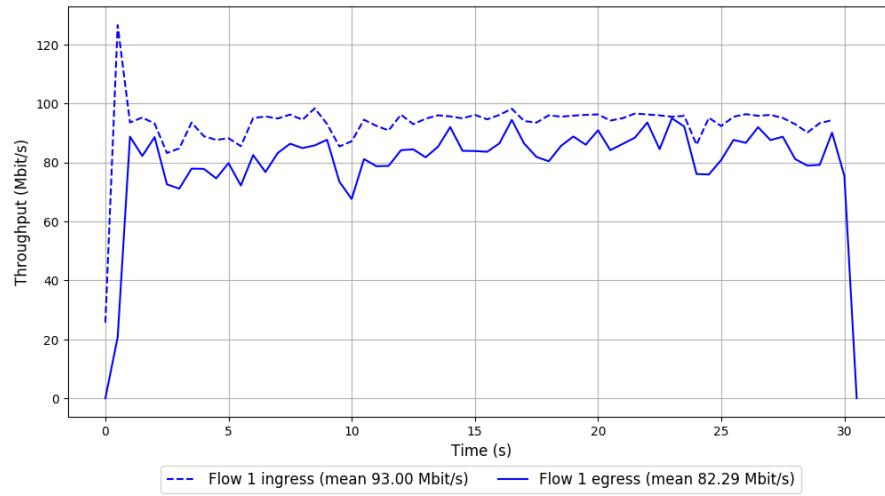
Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 91.62 Mbit/s)   Flow 1 egress (mean 85.31 Mbit/s)

Flow 1 (95th percentile 30.69 ms)

40

```
Run 4: Statistics of FillP

Start at: 2019-01-21 06:39:04
End at: 2019-01-21 06:39:34
Local clock offset: -0.629 ms
Remote clock offset: -0.968 ms


# Below is generated by plot.py at 2019-01-21 07:09:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.08 Mbit/s
95th percentile per-packet one-way delay: 19.471 ms
Loss rate: 6.87%
-- Flow 1:
Average throughput: 88.08 Mbit/s
95th percentile per-packet one-way delay: 19.471 ms
Loss rate: 6.87%
```

Run 4: Report of FillP — Data Link

```
Run 5: Statistics of FillP

Start at: 2019-01-21 07:04:23
End at: 2019-01-21 07:04:53
Local clock offset: -1.071 ms
Remote clock offset: -5.061 ms


# Below is generated by plot.py at 2019-01-21 07:09:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.29 Mbit/s
95th percentile per-packet one-way delay: 12.134 ms
Loss rate: 11.51%
-- Flow 1:
Average throughput: 82.29 Mbit/s
95th percentile per-packet one-way delay: 12.134 ms
Loss rate: 11.51%
```
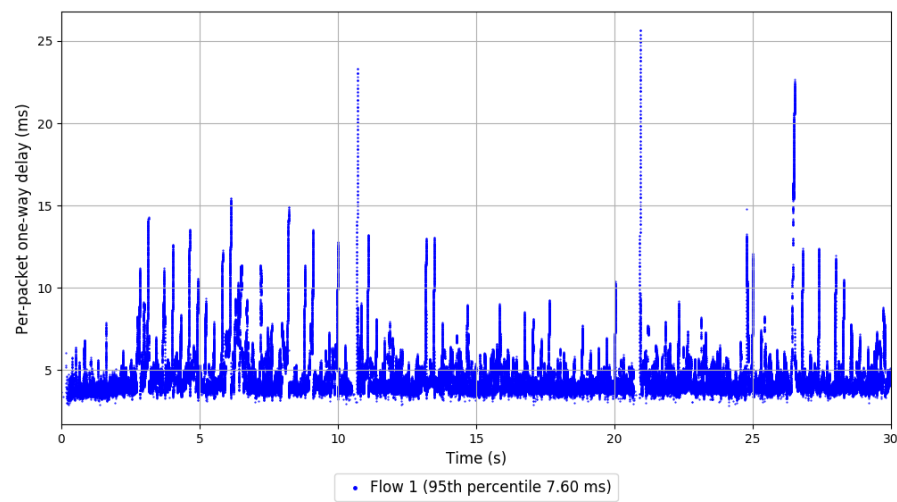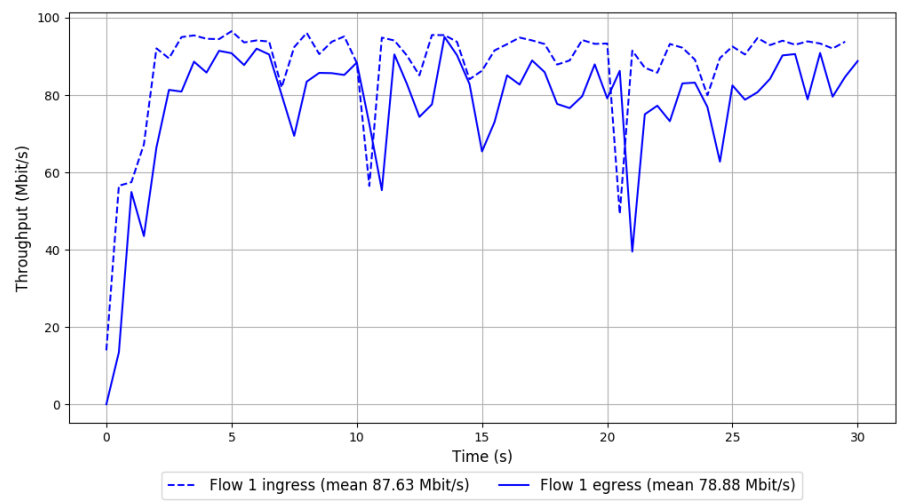
Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 93.00 Mbit/s) --- Flow 1 egress (mean 82.29 Mbit/s)
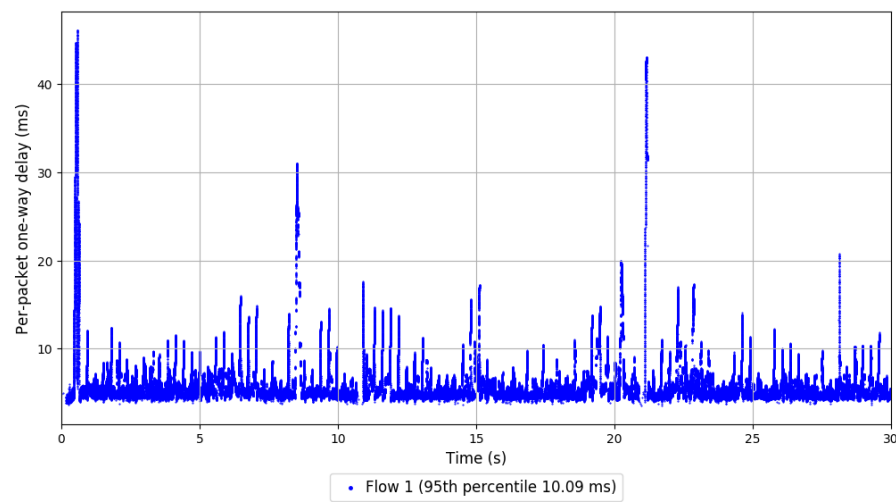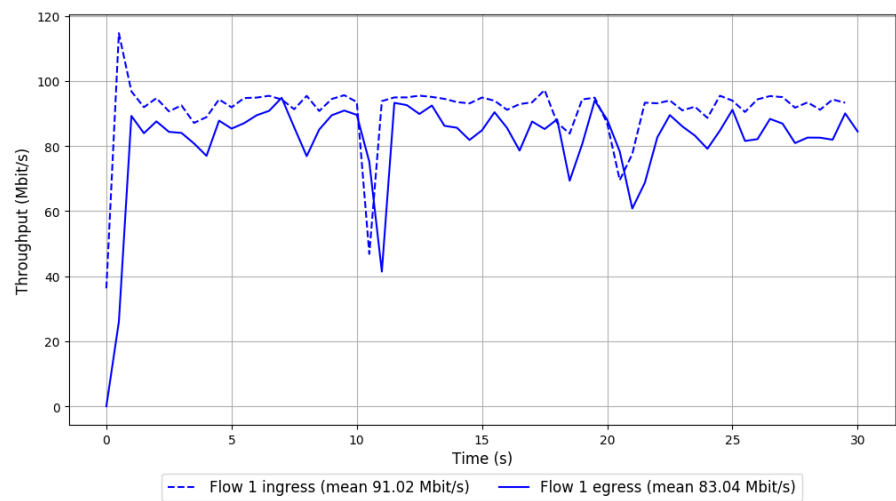

• Flow 1 (95th percentile 12.13 ms)

```
Run 1: Statistics of FillP-Sheep

Start at: 2019-01-21 05:03:44
End at: 2019-01-21 05:04:14
Local clock offset: 0.164 ms
Remote clock offset: -8.528 ms


# Below is generated by plot.py at 2019-01-21 07:09:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.88 Mbit/s
95th percentile per-packet one-way delay: 7.600 ms
Loss rate: 9.99%
-- Flow 1:
Average throughput: 78.88 Mbit/s
95th percentile per-packet one-way delay: 7.600 ms
Loss rate: 9.99%
```
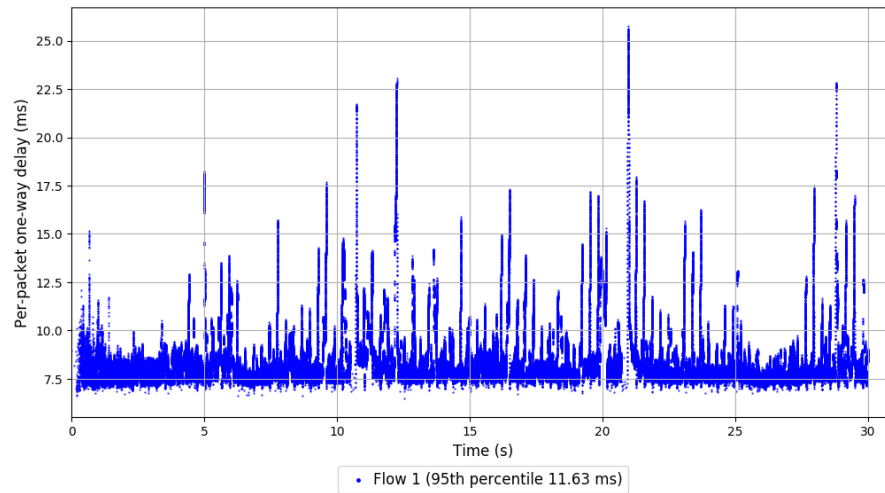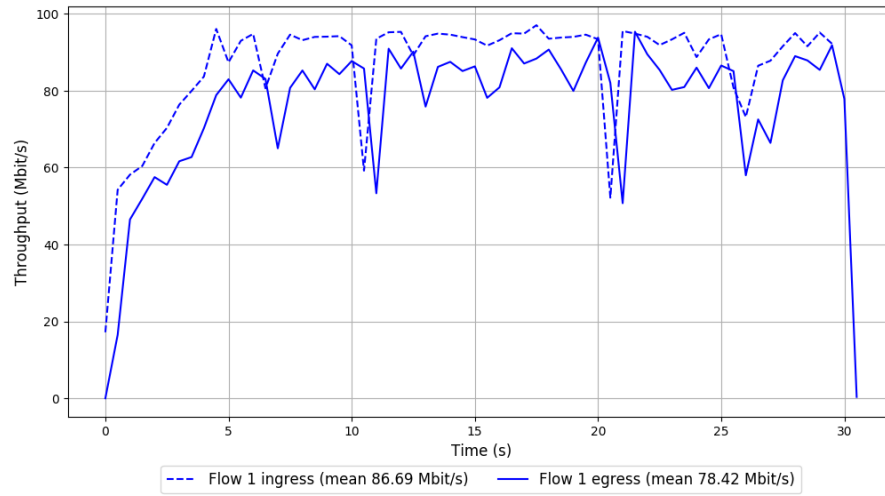
Run 1: Report of FillP-Sheep — Data Link

```
Run 2: Statistics of FillP-Sheep

Start at: 2019-01-21 05:30:13
End at: 2019-01-21 05:30:43
Local clock offset: -1.707 ms
Remote clock offset: -6.765 ms


# Below is generated by plot.py at 2019-01-21 07:09:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 10.089 ms
Loss rate: 8.76%
-- Flow 1:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 10.089 ms
Loss rate: 8.76%
```
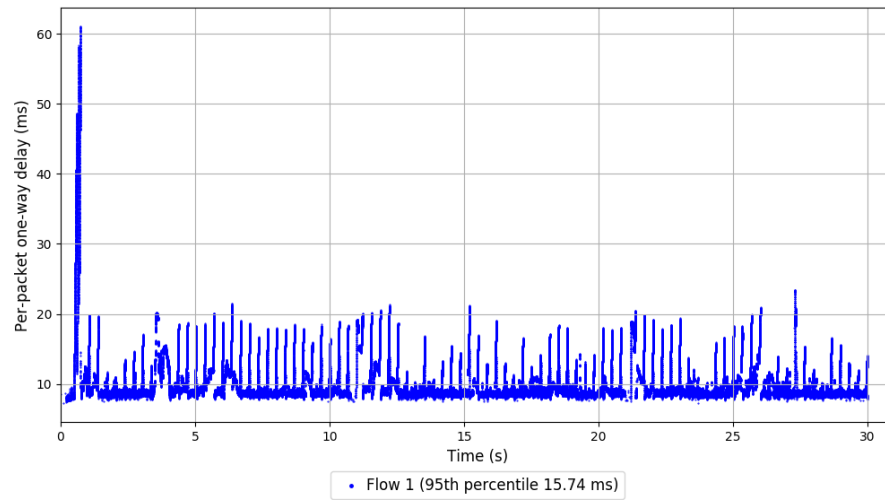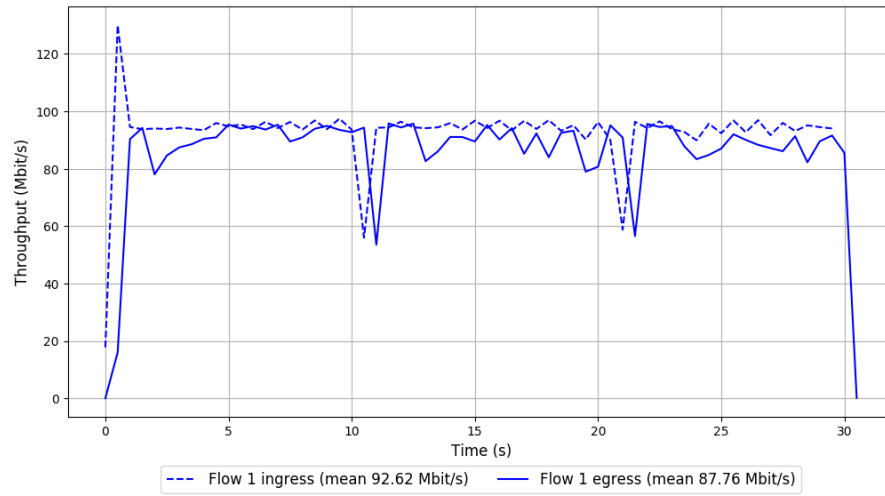
Run 2: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 91.02 Mbit/s) ---- Flow 1 egress (mean 83.04 Mbit/s) ——

• Flow 1 (95th percentile 10.09 ms)

48

```
Run 3: Statistics of FillP-Sheep

Start at: 2019-01-21 05:58:02
End at: 2019-01-21 05:58:32
Local clock offset: -1.664 ms
Remote clock offset: -3.687 ms


# Below is generated by plot.py at 2019-01-21 07:09:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.42 Mbit/s
95th percentile per-packet one-way delay: 11.630 ms
Loss rate: 9.54%
-- Flow 1:
Average throughput: 78.42 Mbit/s
95th percentile per-packet one-way delay: 11.630 ms
Loss rate: 9.54%
```
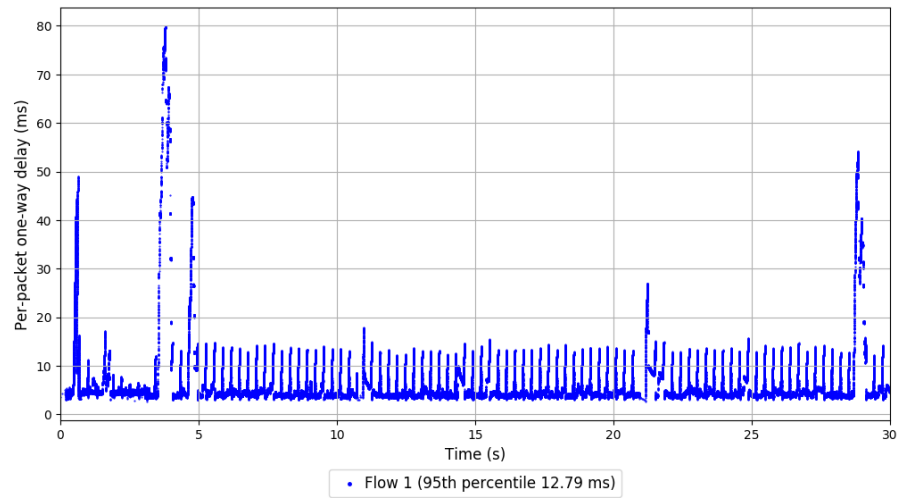
Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 86.69 Mbit/s)   Flow 1 egress (mean 78.42 Mbit/s)

Flow 1 (95th percentile 11.63 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2019-01-21 06:25:01
End at: 2019-01-21 06:25:31
Local clock offset: -0.074 ms
Remote clock offset: -1.386 ms


# Below is generated by plot.py at 2019-01-21 07:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.76 Mbit/s
95th percentile per-packet one-way delay: 15.738 ms
Loss rate: 5.25%
-- Flow 1:
Average throughput: 87.76 Mbit/s
95th percentile per-packet one-way delay: 15.738 ms
Loss rate: 5.25%
```
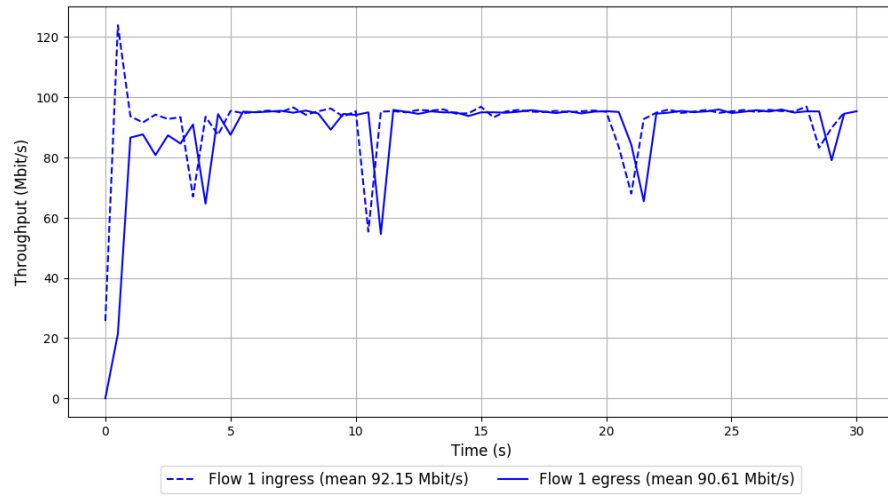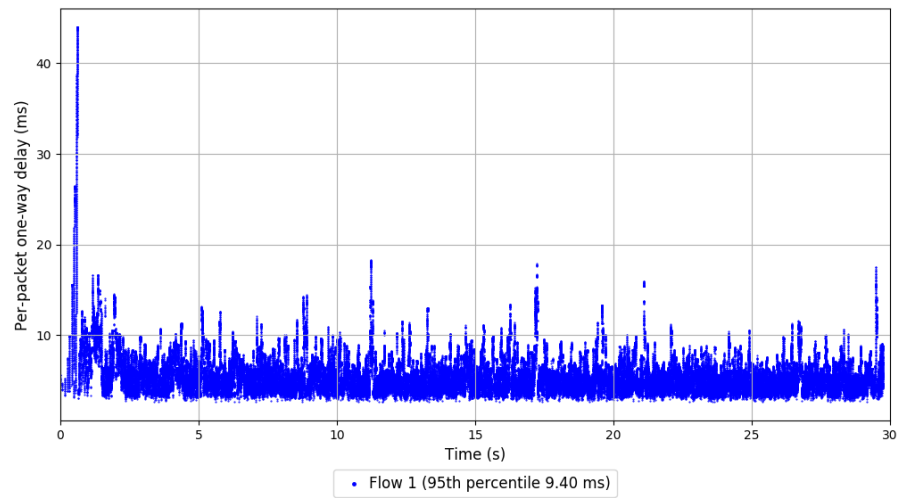
Run 4: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 92.62 Mbit/s) ——— Flow 1 egress (mean 87.76 Mbit/s)

• Flow 1 (95th percentile 15.74 ms)

```
Run 5: Statistics of FillP-Sheep

Start at: 2019-01-21 06:51:25
End at: 2019-01-21 06:51:55
Local clock offset: 1.301 ms
Remote clock offset: -5.66 ms


# Below is generated by plot.py at 2019-01-21 07:10:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 12.790 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 12.790 ms
Loss rate: 1.67%
```
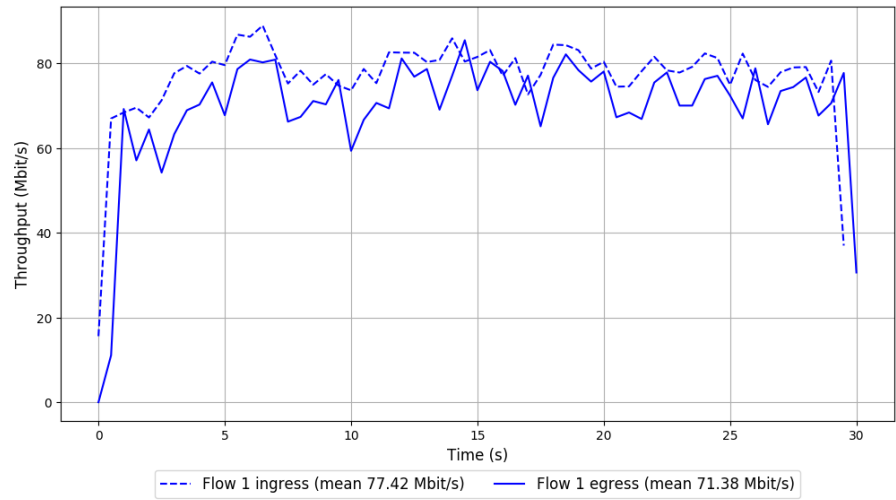
Run 5: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 92.15 Mbit/s) —— Flow 1 egress (mean 90.61 Mbit/s)
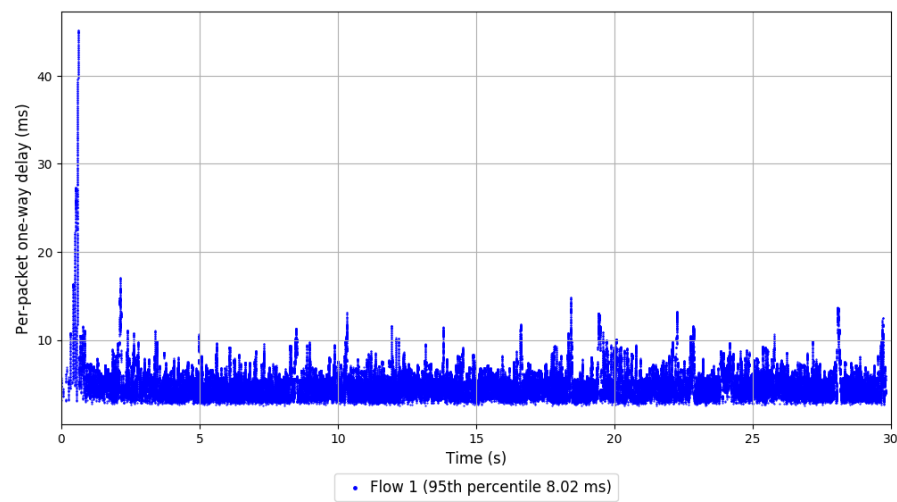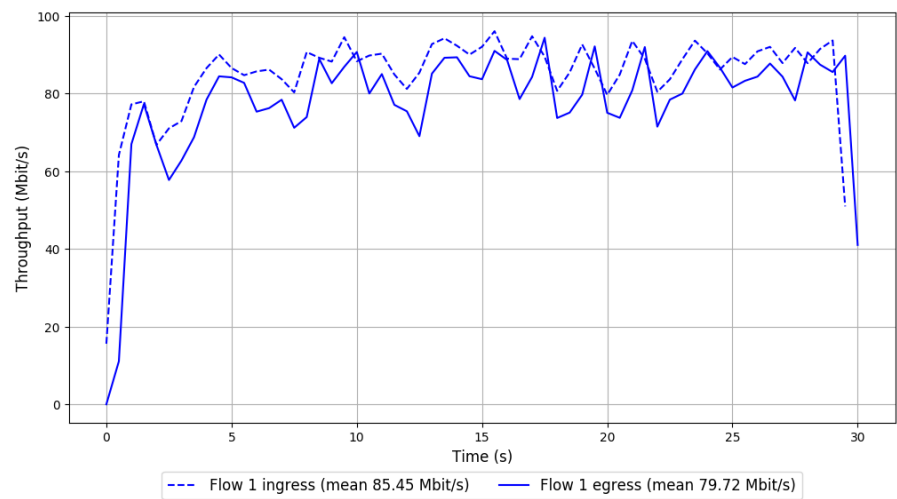

• Flow 1 (95th percentile 12.79 ms)

```
Run 1: Statistics of Indigo

Start at: 2019-01-21 04:58:28
End at: 2019-01-21 04:58:58
Local clock offset: 1.011 ms
Remote clock offset: -7.344 ms


# Below is generated by plot.py at 2019-01-21 07:10:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.38 Mbit/s
95th percentile per-packet one-way delay: 9.402 ms
Loss rate: 7.80%
-- Flow 1:
Average throughput: 71.38 Mbit/s
95th percentile per-packet one-way delay: 9.402 ms
Loss rate: 7.80%
```
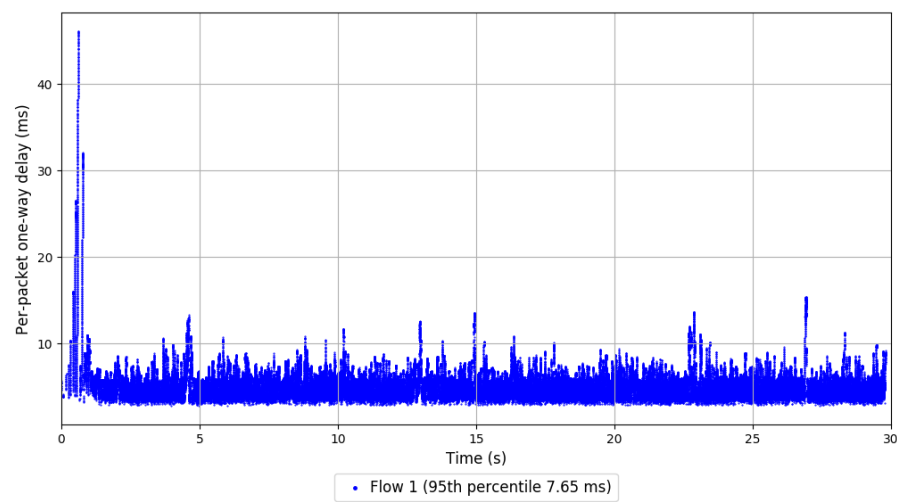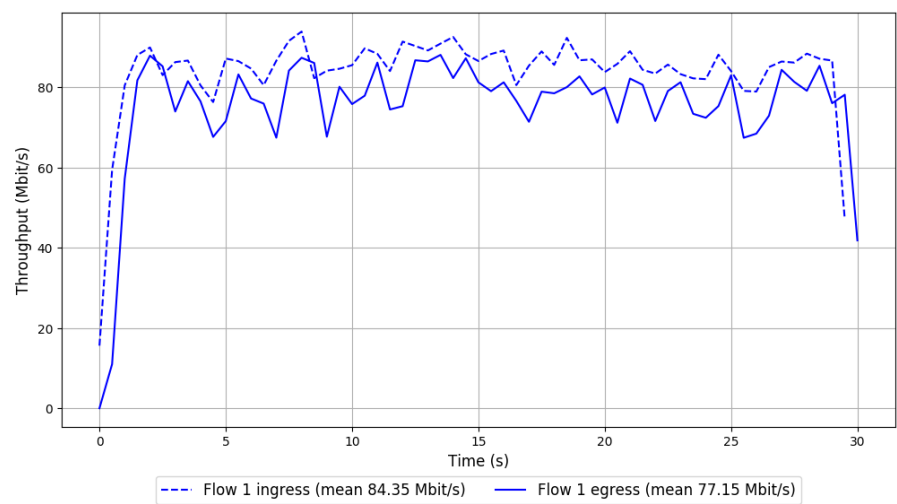
Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2019-01-21 05:25:08
End at: 2019-01-21 05:25:38
Local clock offset: 0.661 ms
Remote clock offset: -6.101 ms


# Below is generated by plot.py at 2019-01-21 07:10:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.72 Mbit/s
95th percentile per-packet one-way delay: 8.023 ms
Loss rate: 6.70%
-- Flow 1:
Average throughput: 79.72 Mbit/s
95th percentile per-packet one-way delay: 8.023 ms
Loss rate: 6.70%
```
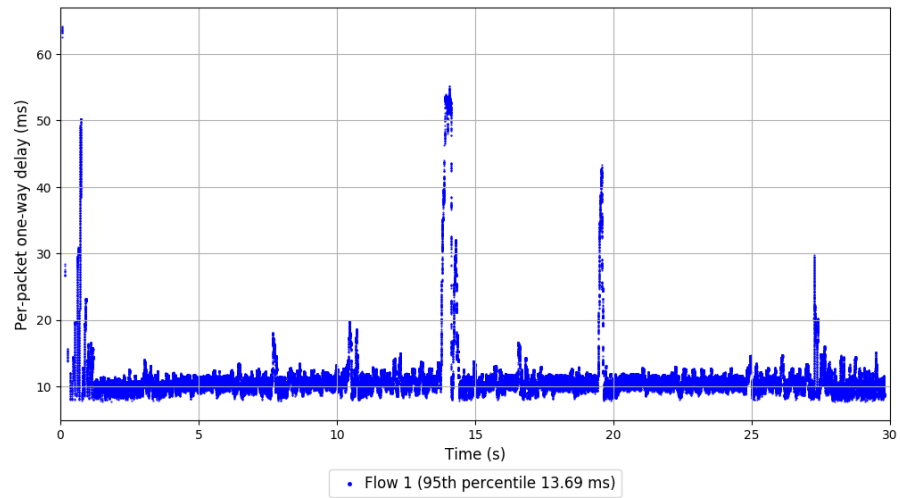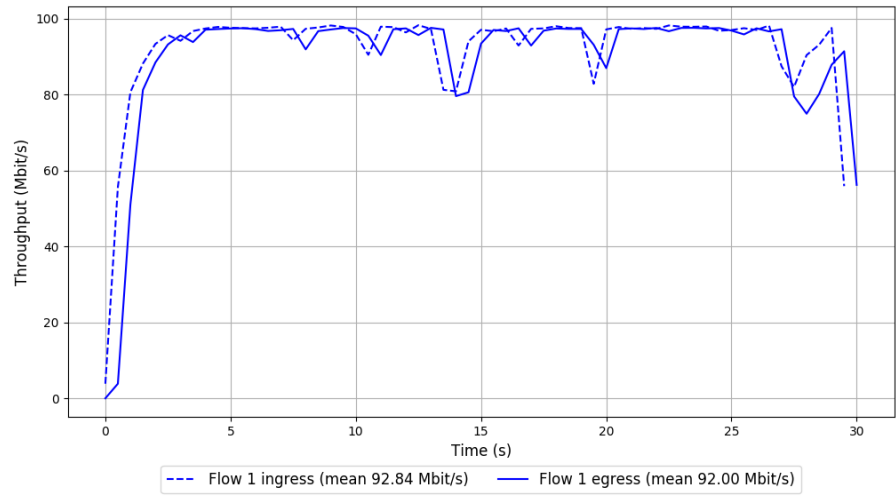
Run 2: Report of Indigo — Data Link

Flow 1 ingress (mean 85.45 Mbit/s) — — — Flow 1 egress (mean 79.72 Mbit/s)
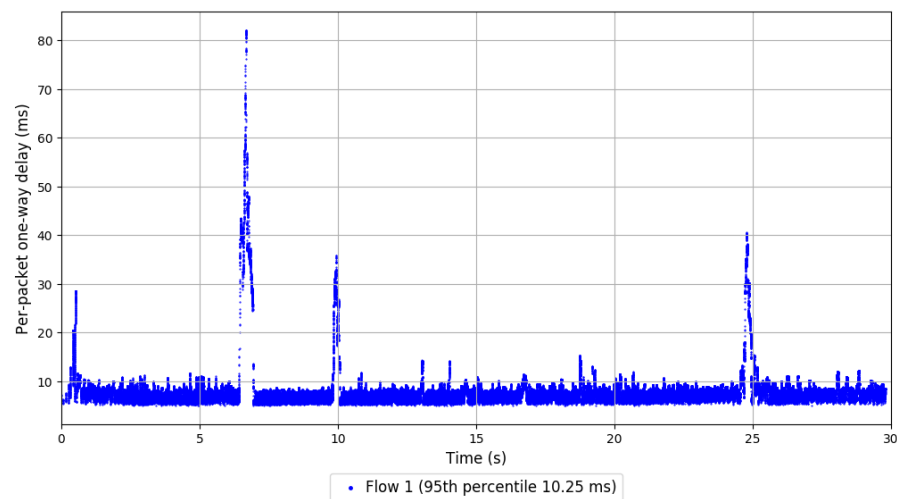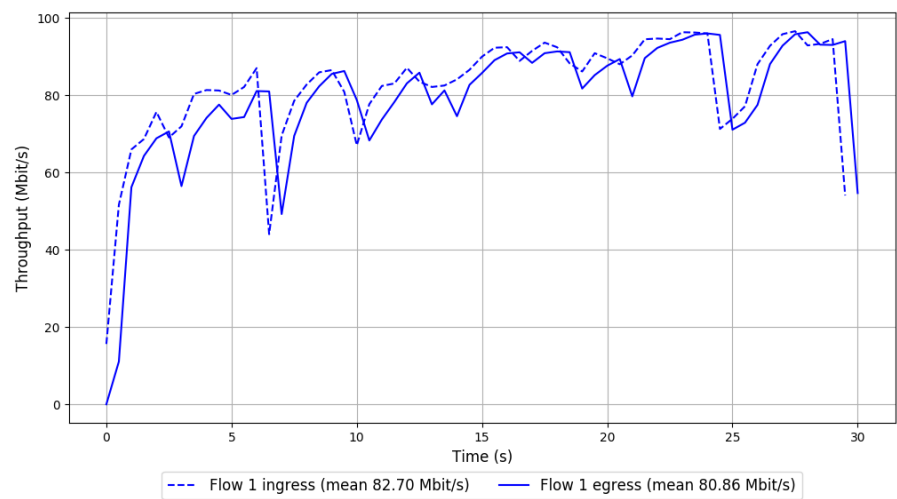

• Flow 1 (95th percentile 8.02 ms)

```
Run 3: Statistics of Indigo

Start at: 2019-01-21 05:52:36
End at: 2019-01-21 05:53:06
Local clock offset: 0.172 ms
Remote clock offset: -5.468 ms


# Below is generated by plot.py at 2019-01-21 07:10:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.15 Mbit/s
95th percentile per-packet one-way delay: 7.648 ms
Loss rate: 8.53%
-- Flow 1:
Average throughput: 77.15 Mbit/s
95th percentile per-packet one-way delay: 7.648 ms
Loss rate: 8.53%
```

Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2019-01-21 06:19:33
End at: 2019-01-21 06:20:03
Local clock offset: 0.666 ms
Remote clock offset: 0.197 ms


# Below is generated by plot.py at 2019-01-21 07:10:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.00 Mbit/s
95th percentile per-packet one-way delay: 13.692 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 92.00 Mbit/s
95th percentile per-packet one-way delay: 13.692 ms
Loss rate: 1.09%
```

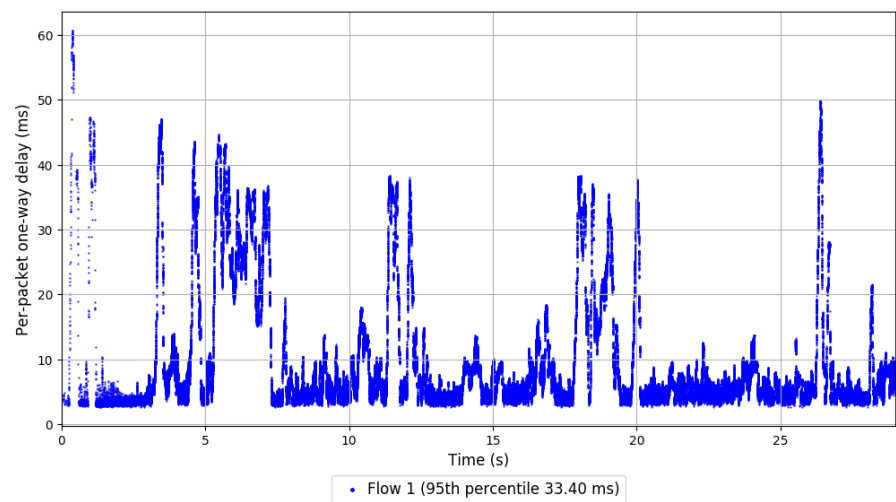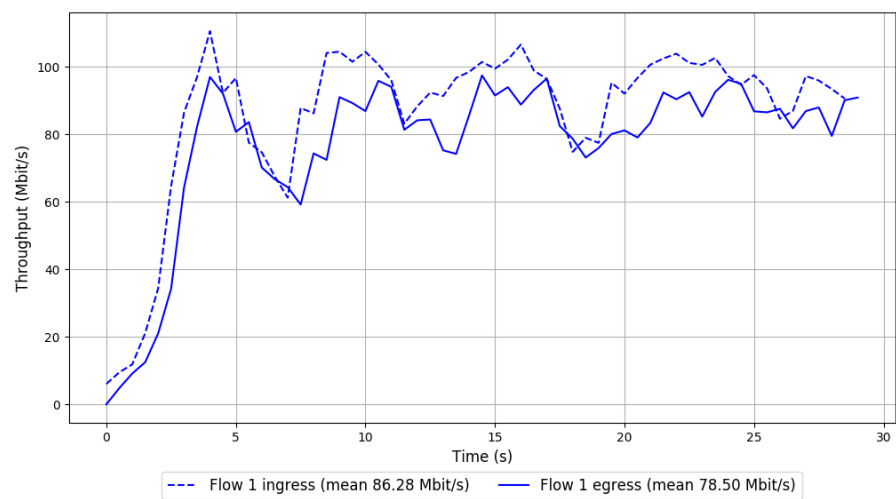Run 4: Report of Indigo — Data Link

Flow 1 ingress (mean 92.84 Mbit/s)   Flow 1 egress (mean 92.00 Mbit/s)
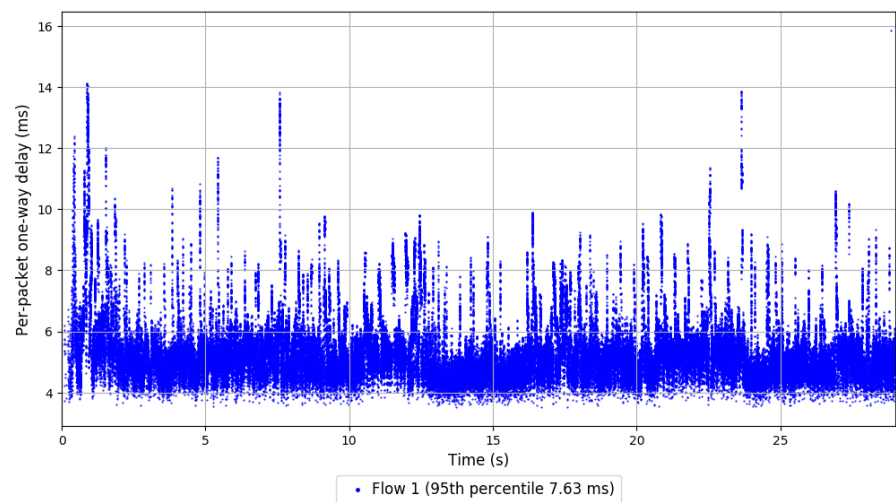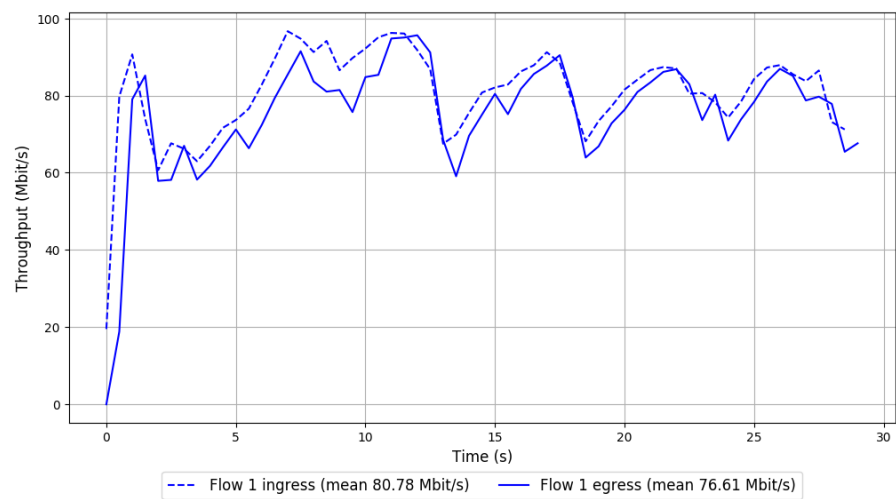

Flow 1 (95th percentile 13.69 ms)

```
Run 5: Statistics of Indigo

Start at: 2019-01-21 06:46:32
End at: 2019-01-21 06:47:02
Local clock offset: 0.473 ms
Remote clock offset: -3.441 ms


# Below is generated by plot.py at 2019-01-21 07:10:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.86 Mbit/s
95th percentile per-packet one-way delay: 10.254 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 80.86 Mbit/s
95th percentile per-packet one-way delay: 10.254 ms
Loss rate: 2.22%
```
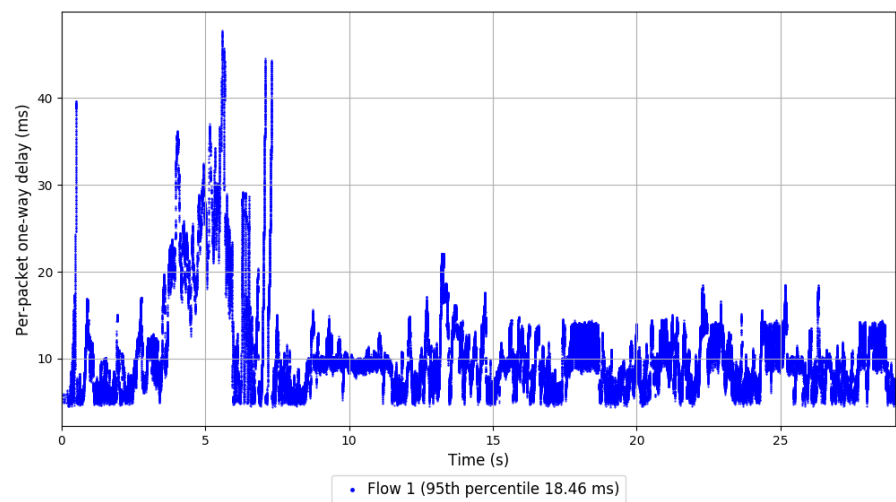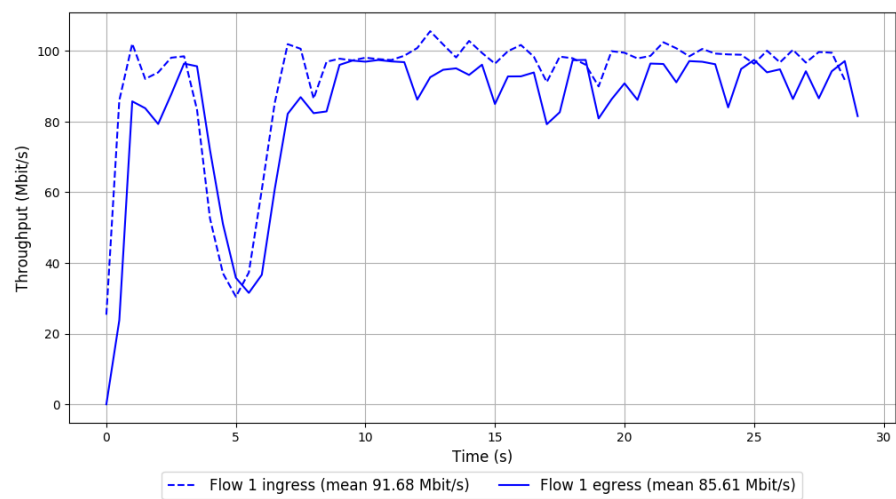
Run 5: Report of Indigo — Data Link

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-21 05:09:55
End at: 2019-01-21 05:10:25
Local clock offset: 0.626 ms
Remote clock offset: -8.368 ms


# Below is generated by plot.py at 2019-01-21 07:10:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.50 Mbit/s
95th percentile per-packet one-way delay: 33.401 ms
Loss rate: 9.00%
-- Flow 1:
Average throughput: 78.50 Mbit/s
95th percentile per-packet one-way delay: 33.401 ms
Loss rate: 9.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 86.28 Mbit/s) --- Flow 1 egress (mean 78.50 Mbit/s)

• Flow 1 (95th percentile 33.40 ms)

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-21 05:36:20
End at: 2019-01-21 05:36:50
Local clock offset: -1.169 ms
Remote clock offset: -6.447 ms


# Below is generated by plot.py at 2019-01-21 07:10:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.61 Mbit/s
95th percentile per-packet one-way delay: 7.630 ms
Loss rate: 5.16%
-- Flow 1:
Average throughput: 76.61 Mbit/s
95th percentile per-packet one-way delay: 7.630 ms
Loss rate: 5.16%
```
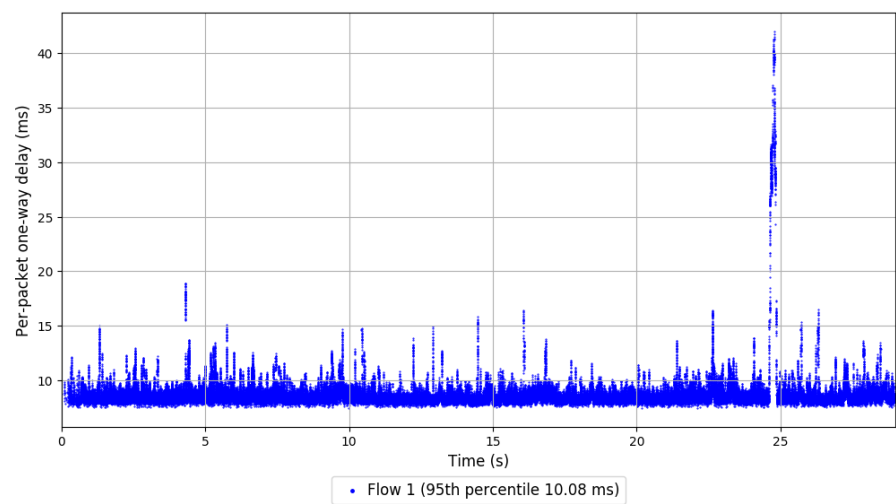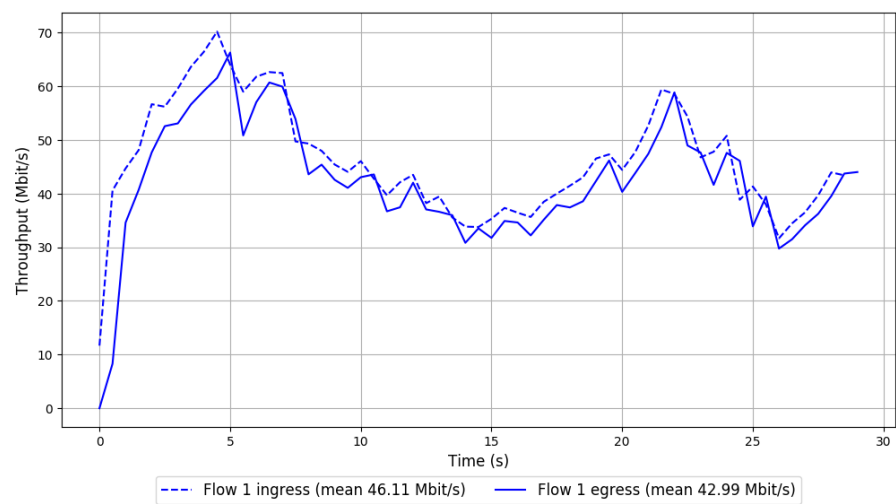
Run 2: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 80.78 Mbit/s) — — — Flow 1 egress (mean 76.61 Mbit/s)
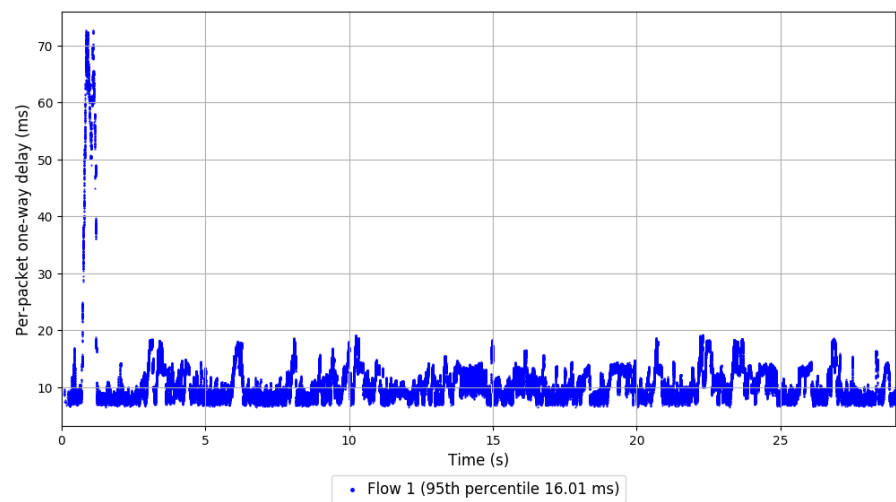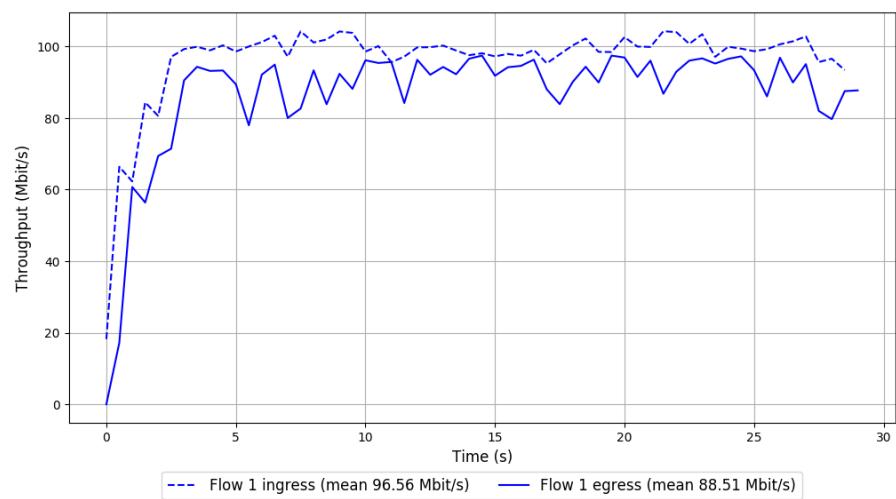

Flow 1 (95th percentile 7.63 ms)

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-21 06:03:56
End at: 2019-01-21 06:04:26
Local clock offset: -1.026 ms
Remote clock offset: -5.117 ms


# Below is generated by plot.py at 2019-01-21 07:10:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.61 Mbit/s
95th percentile per-packet one-way delay: 18.465 ms
Loss rate: 6.63%
-- Flow 1:
Average throughput: 85.61 Mbit/s
95th percentile per-packet one-way delay: 18.465 ms
Loss rate: 6.63%
```
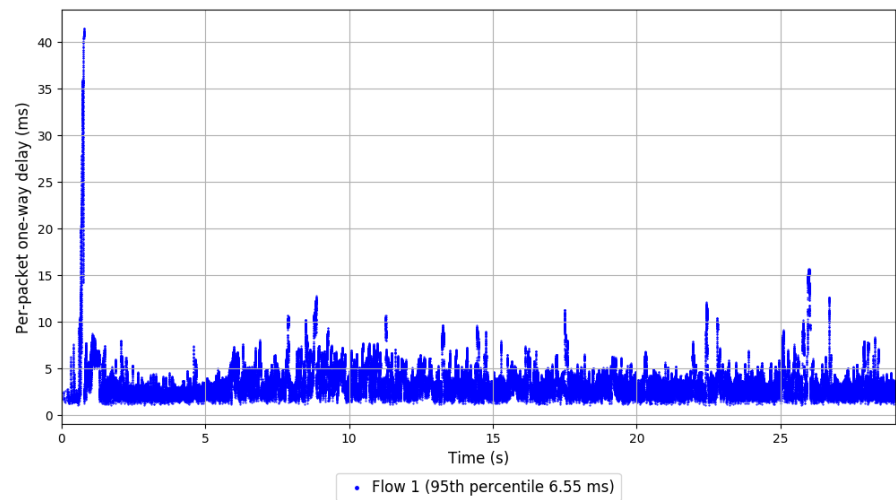
Run 3: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 91.68 Mbit/s) ----   Flow 1 egress (mean 85.61 Mbit/s) ——

• Flow 1 (95th percentile 18.46 ms)

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-21 06:31:00
End at: 2019-01-21 06:31:30
Local clock offset: -0.109 ms
Remote clock offset: -1.53 ms


# Below is generated by plot.py at 2019-01-21 07:10:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.99 Mbit/s
95th percentile per-packet one-way delay: 10.081 ms
Loss rate: 6.77%
-- Flow 1:
Average throughput: 42.99 Mbit/s
95th percentile per-packet one-way delay: 10.081 ms
Loss rate: 6.77%
```
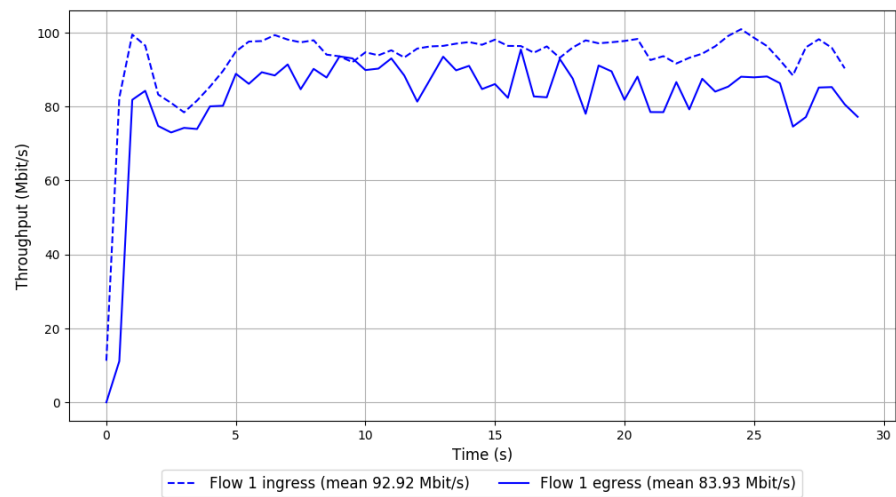
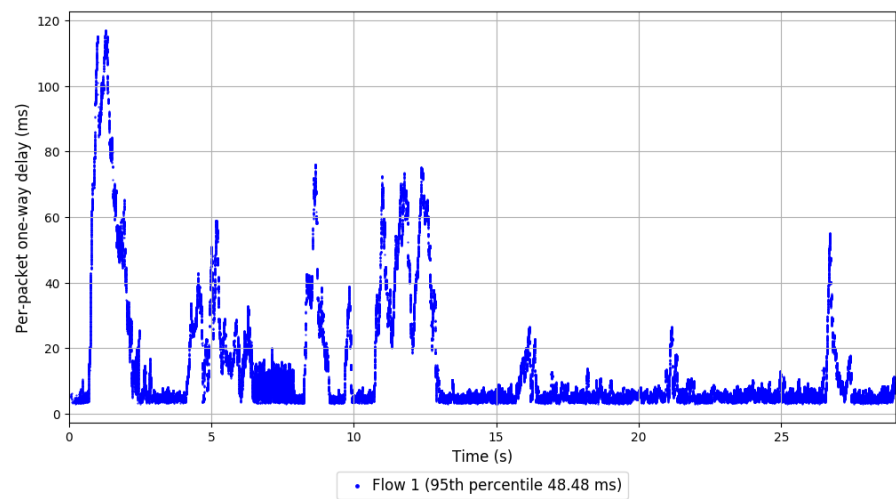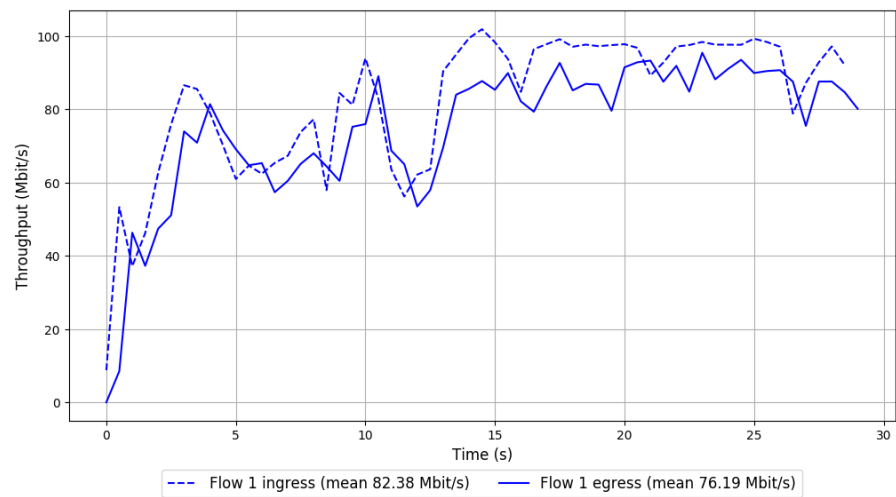Run 4: Report of Indigo-MusesC3 — Data Link

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-21 06:57:12
End at: 2019-01-21 06:57:42
Local clock offset: 0.676 ms
Remote clock offset: -3.673 ms


# Below is generated by plot.py at 2019-01-21 07:11:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.51 Mbit/s
95th percentile per-packet one-way delay: 16.006 ms
Loss rate: 8.33%
-- Flow 1:
Average throughput: 88.51 Mbit/s
95th percentile per-packet one-way delay: 16.006 ms
Loss rate: 8.33%
```

Run 5: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 96.56 Mbit/s) — Flow 1 egress (mean 88.51 Mbit/s)
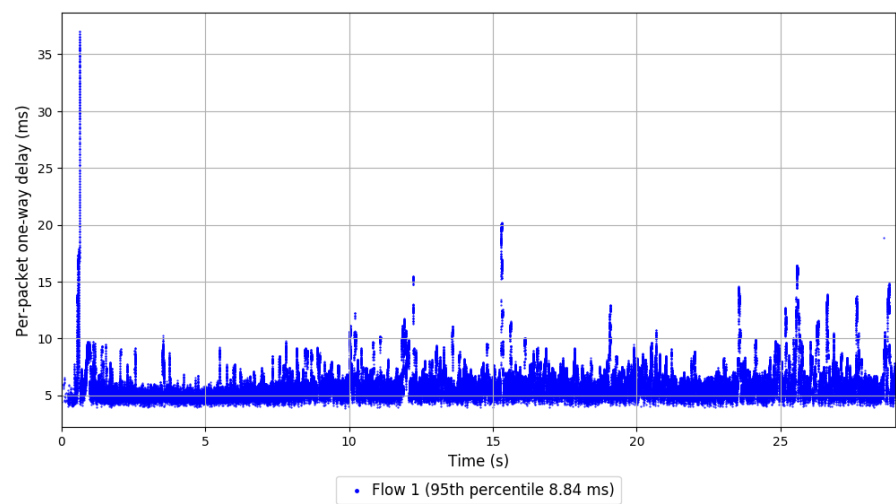

• Flow 1 (95th percentile 16.01 ms)

```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-21 05:13:40
End at: 2019-01-21 05:14:10
Local clock offset: 2.767 ms
Remote clock offset: -7.242 ms


# Below is generated by plot.py at 2019-01-21 07:11:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.93 Mbit/s
95th percentile per-packet one-way delay: 6.551 ms
Loss rate: 9.67%
-- Flow 1:
Average throughput: 83.93 Mbit/s
95th percentile per-packet one-way delay: 6.551 ms
Loss rate: 9.67%
```
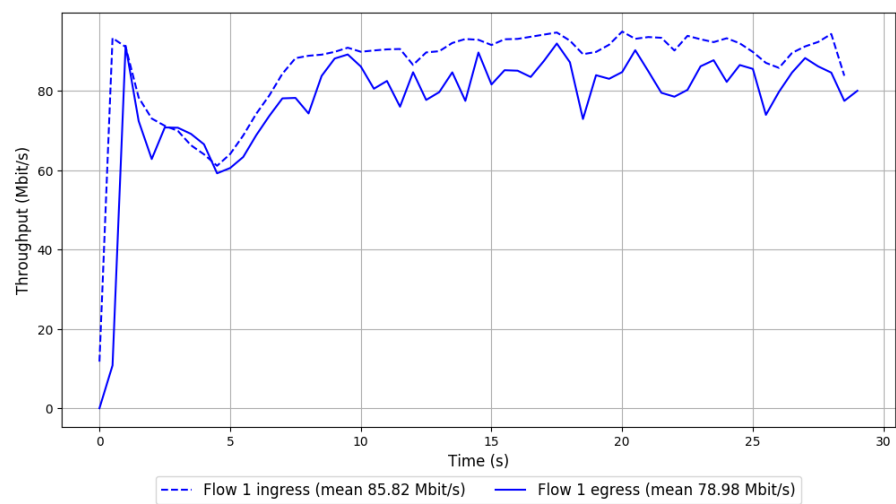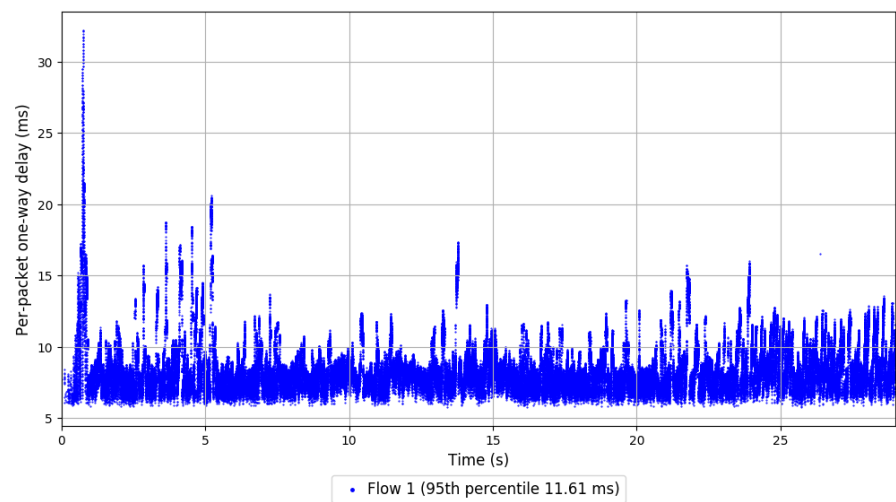
Run 1: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 92.92 Mbit/s) — — — Flow 1 egress (mean 83.93 Mbit/s)

Flow 1 (95th percentile 6.55 ms)

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-21 05:40:18
End at: 2019-01-21 05:40:48
Local clock offset: -1.574 ms
Remote clock offset: -6.566 ms


# Below is generated by plot.py at 2019-01-21 07:11:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.19 Mbit/s
95th percentile per-packet one-way delay: 48.482 ms
Loss rate: 7.50%
-- Flow 1:
Average throughput: 76.19 Mbit/s
95th percentile per-packet one-way delay: 48.482 ms
Loss rate: 7.50%
```
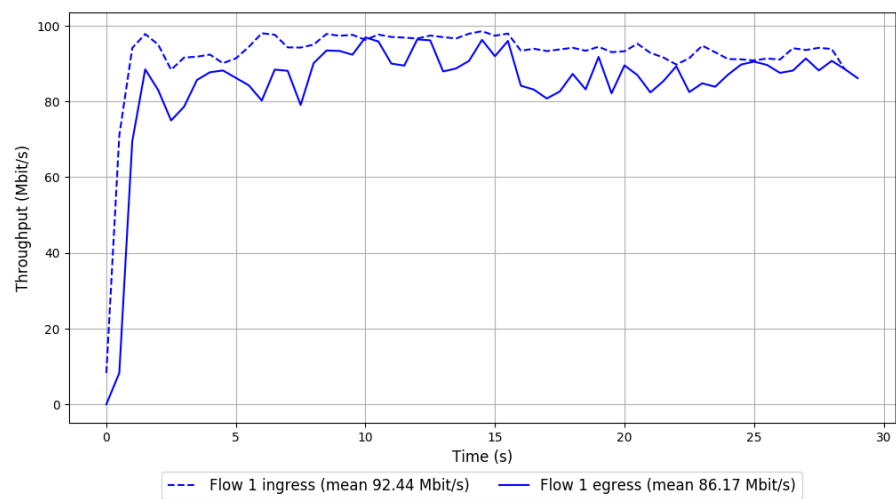
Run 2: Report of Indigo-MusesC5 — Data Link

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-21 06:07:29
End at: 2019-01-21 06:07:59
Local clock offset: 0.321 ms
Remote clock offset: -4.284 ms


# Below is generated by plot.py at 2019-01-21 07:11:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.98 Mbit/s
95th percentile per-packet one-way delay: 8.842 ms
Loss rate: 7.95%
-- Flow 1:
Average throughput: 78.98 Mbit/s
95th percentile per-packet one-way delay: 8.842 ms
Loss rate: 7.95%
```
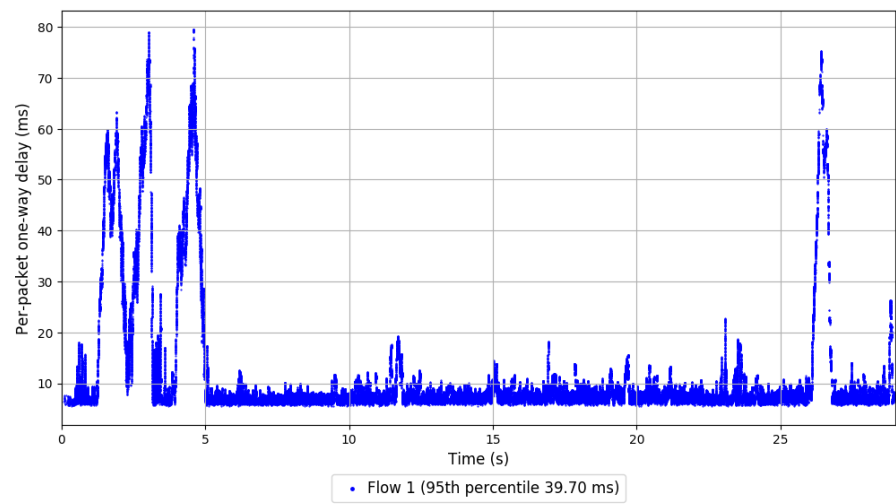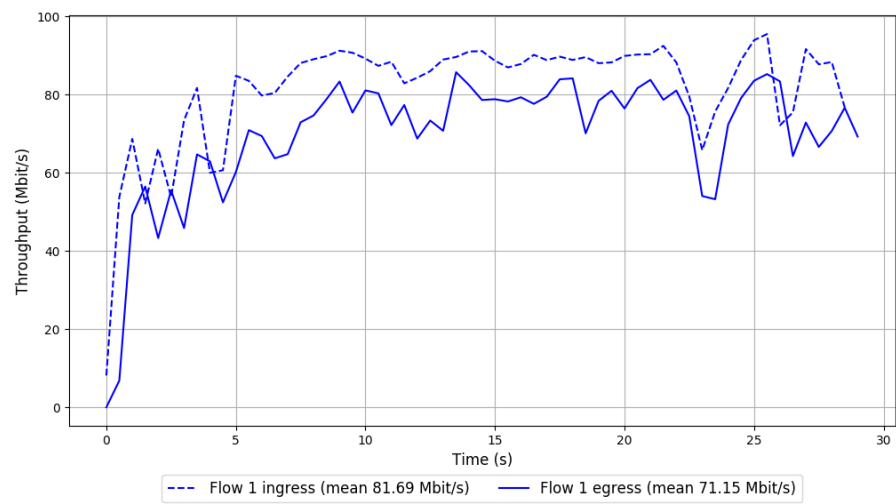
Run 3: Report of Indigo-MusesC5 — Data Link

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-21 06:34:43
End at: 2019-01-21 06:35:13
Local clock offset: 0.124 ms
Remote clock offset: -3.075 ms


# Below is generated by plot.py at 2019-01-21 07:11:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.17 Mbit/s
95th percentile per-packet one-way delay: 11.607 ms
Loss rate: 6.77%
-- Flow 1:
Average throughput: 86.17 Mbit/s
95th percentile per-packet one-way delay: 11.607 ms
Loss rate: 6.77%
```
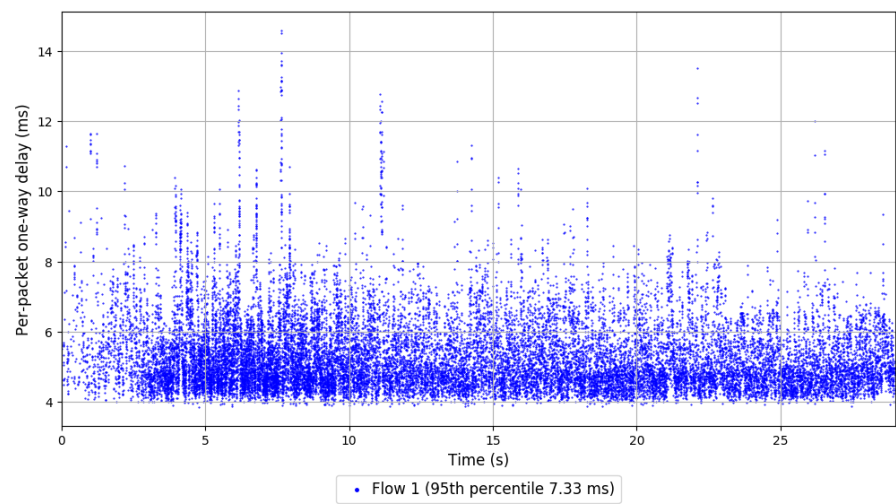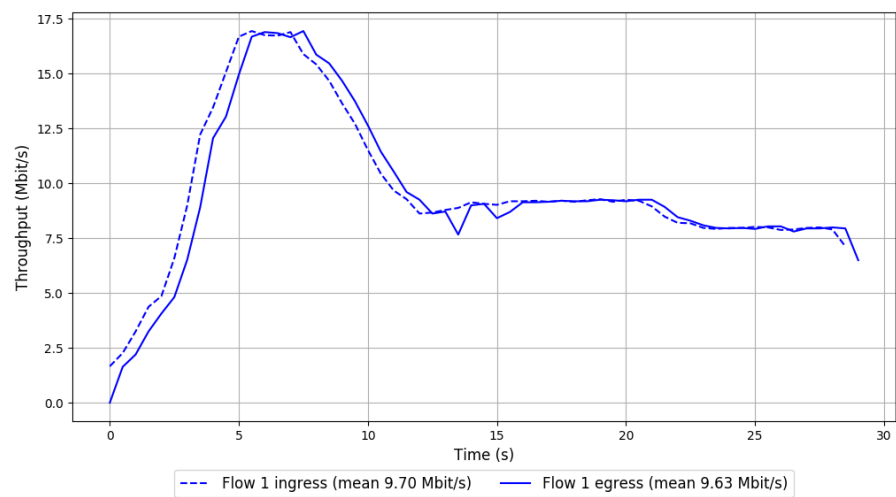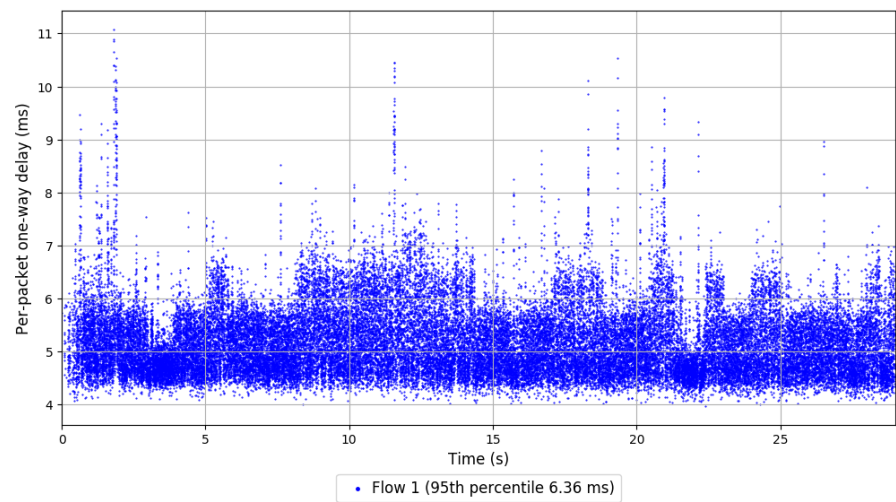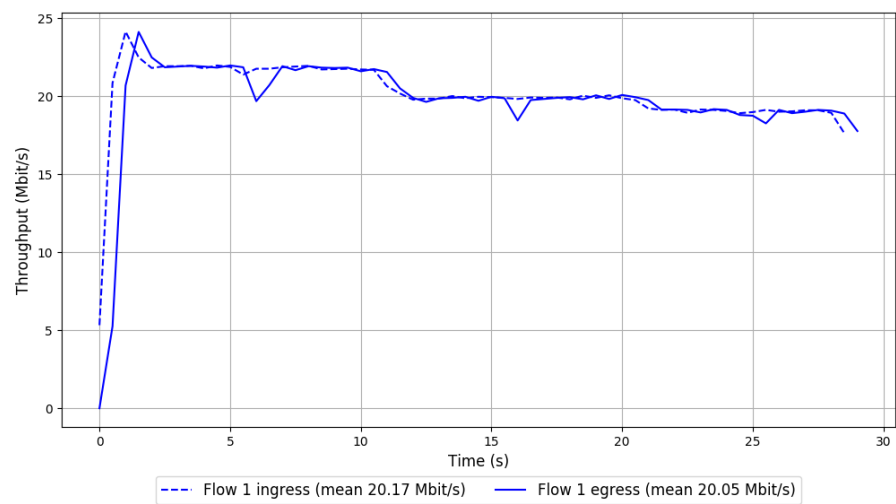
Run 4: Report of Indigo-MusesC5 — Data Link

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-21 07:00:42
End at: 2019-01-21 07:01:12
Local clock offset: 0.566 ms
Remote clock offset: -5.277 ms


# Below is generated by plot.py at 2019-01-21 07:11:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.15 Mbit/s
95th percentile per-packet one-way delay: 39.705 ms
Loss rate: 12.90%
-- Flow 1:
Average throughput: 71.15 Mbit/s
95th percentile per-packet one-way delay: 39.705 ms
Loss rate: 12.90%
```

Run 5: Report of Indigo-MusesC5 — Data Link

```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-21 04:57:20
End at: 2019-01-21 04:57:50
Local clock offset: 0.865 ms
Remote clock offset: -6.056 ms


# Below is generated by plot.py at 2019-01-21 07:11:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 7.328 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 7.328 ms
Loss rate: 0.71%
```
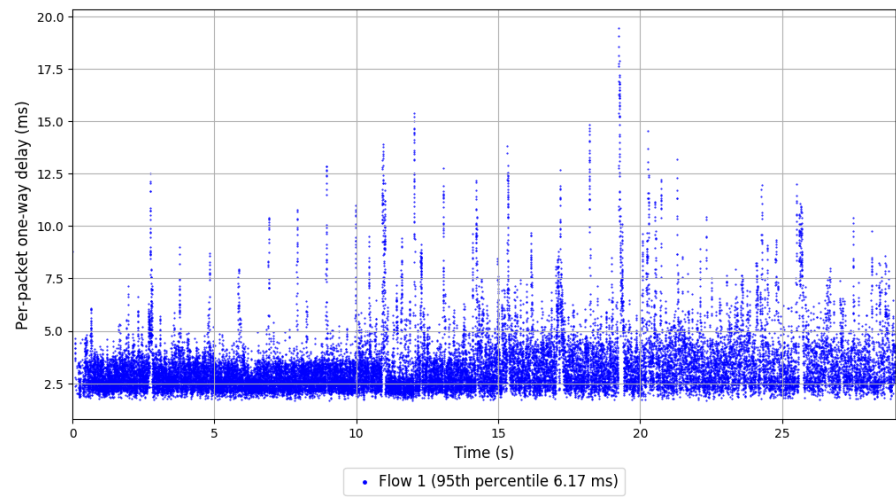
Run 1: Report of Indigo-MusesD — Data Link

```
Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-21 05:23:57
End at: 2019-01-21 05:24:27
Local clock offset: -0.214 ms
Remote clock offset: -6.012 ms


# Below is generated by plot.py at 2019-01-21 07:11:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.05 Mbit/s
95th percentile per-packet one-way delay: 6.364 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 20.05 Mbit/s
95th percentile per-packet one-way delay: 6.364 ms
Loss rate: 0.57%
```
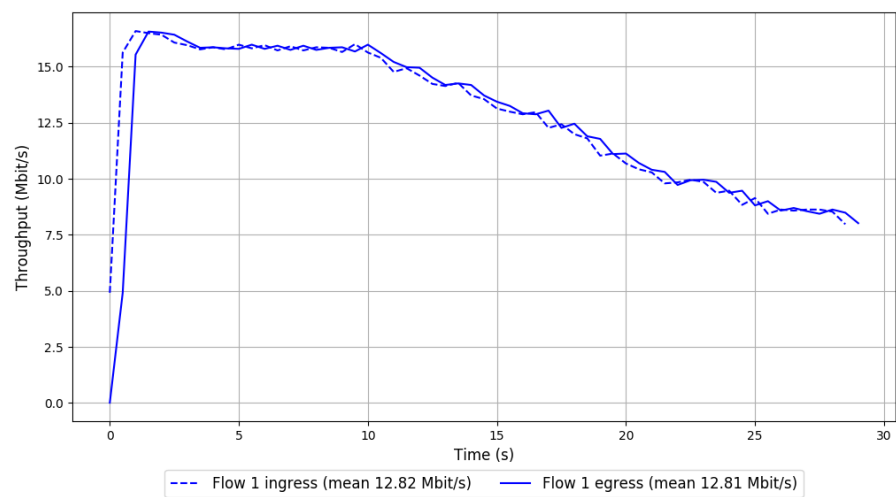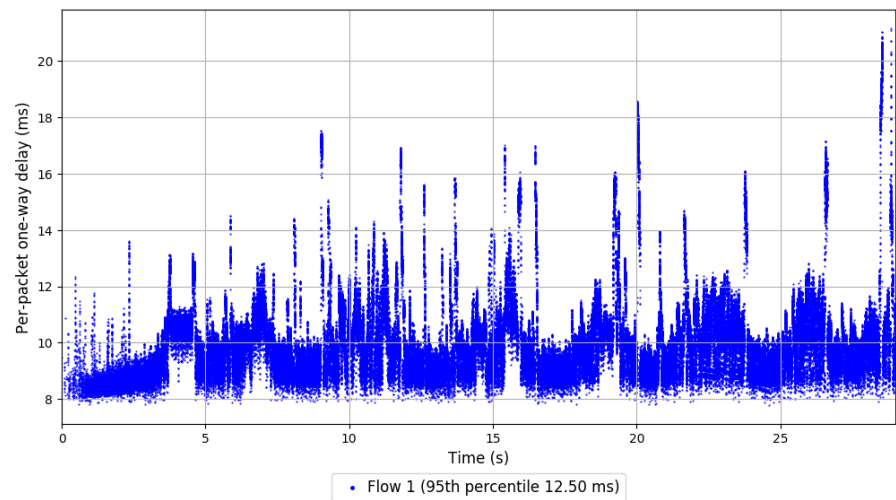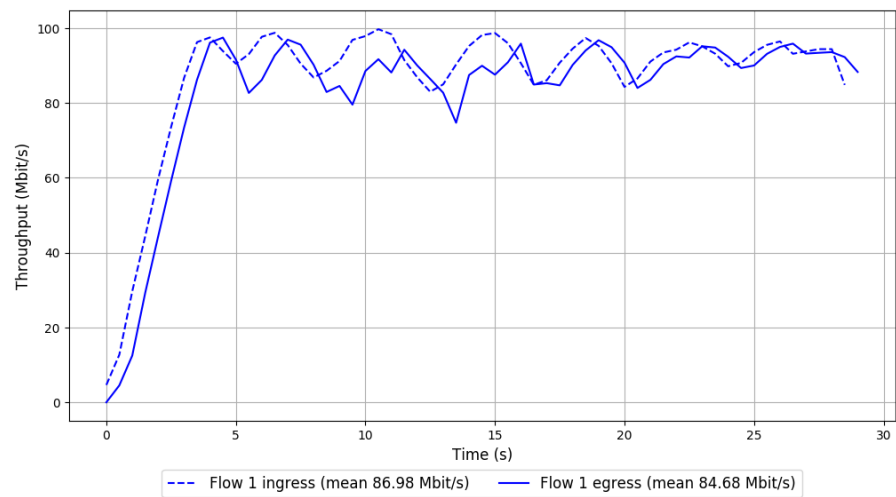
Run 2: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 20.17 Mbit/s) --- Flow 1 egress (mean 20.05 Mbit/s)
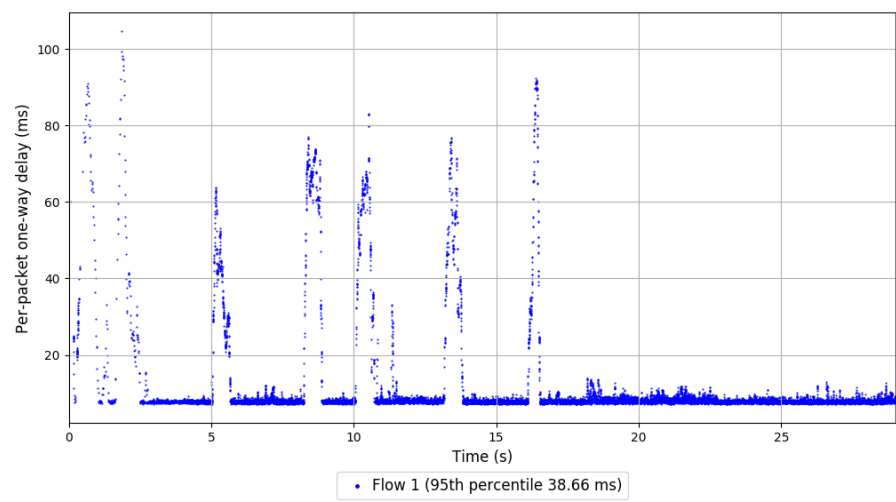

Flow 1 (95th percentile 6.36 ms)

```
Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-21 05:51:26
End at: 2019-01-21 05:51:56
Local clock offset: 0.433 ms
Remote clock offset: -6.347 ms


# Below is generated by plot.py at 2019-01-21 07:11:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 6.169 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 6.169 ms
Loss rate: 0.04%
```
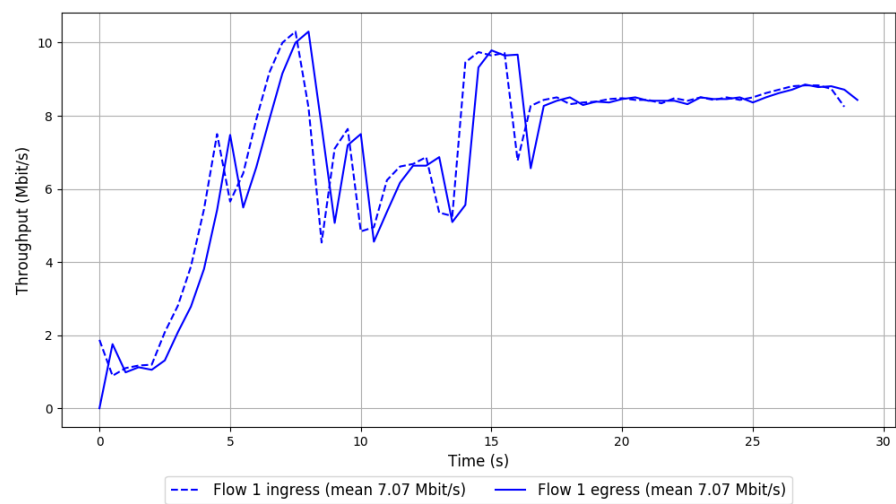
Run 3: Report of Indigo-MusesD — Data Link

90

```
Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-21 06:18:14
End at: 2019-01-21 06:18:44
Local clock offset: -0.933 ms
Remote clock offset: -1.737 ms


# Below is generated by plot.py at 2019-01-21 07:12:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.68 Mbit/s
95th percentile per-packet one-way delay: 12.503 ms
Loss rate: 2.63%
-- Flow 1:
Average throughput: 84.68 Mbit/s
95th percentile per-packet one-way delay: 12.503 ms
Loss rate: 2.63%
```
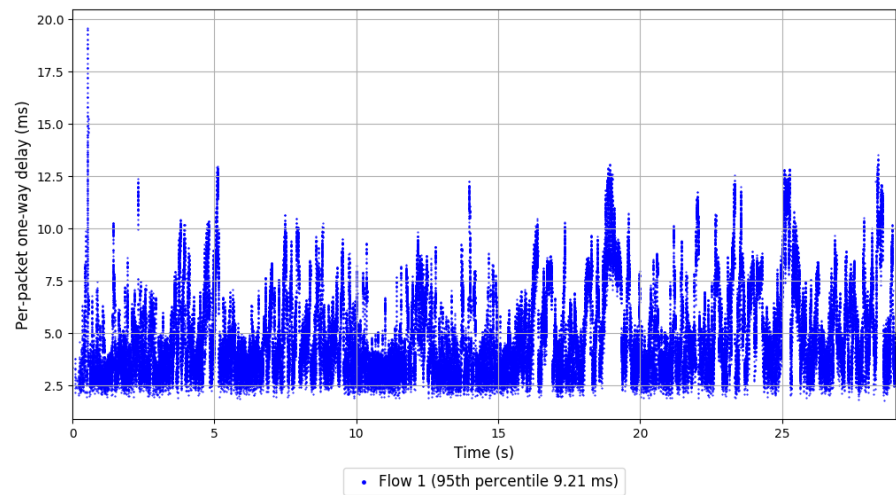
Run 4: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 86.98 Mbit/s)   Flow 1 egress (mean 84.68 Mbit/s)

• Flow 1 (95th percentile 12.50 ms)

```
Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-21 06:45:25
End at: 2019-01-21 06:45:55
Local clock offset: -5.97 ms
Remote clock offset: -8.137 ms


# Below is generated by plot.py at 2019-01-21 07:12:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 38.664 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 38.664 ms
Loss rate: 0.11%
```
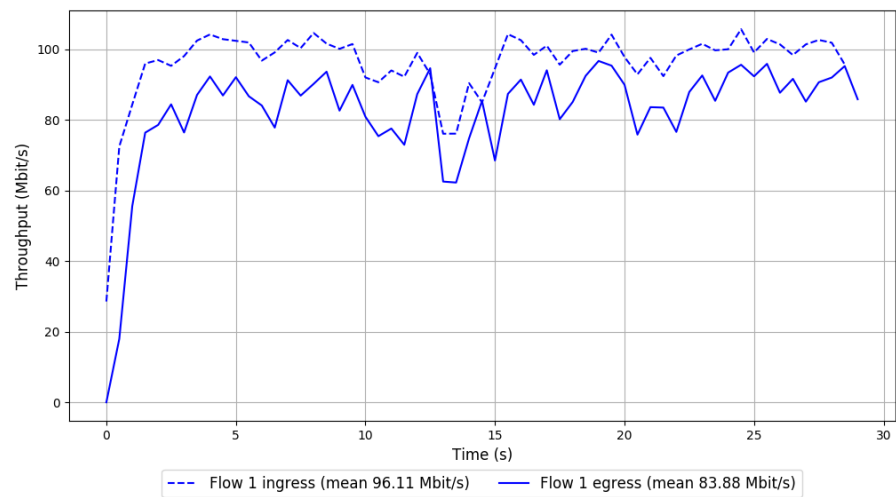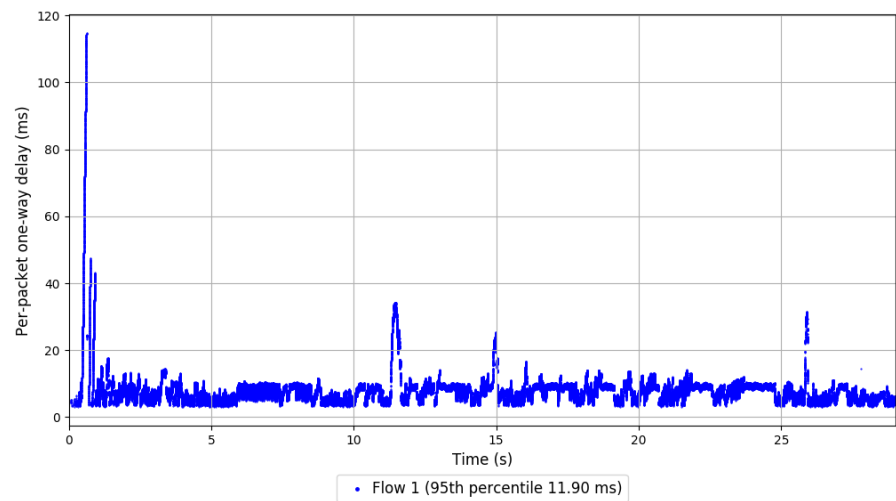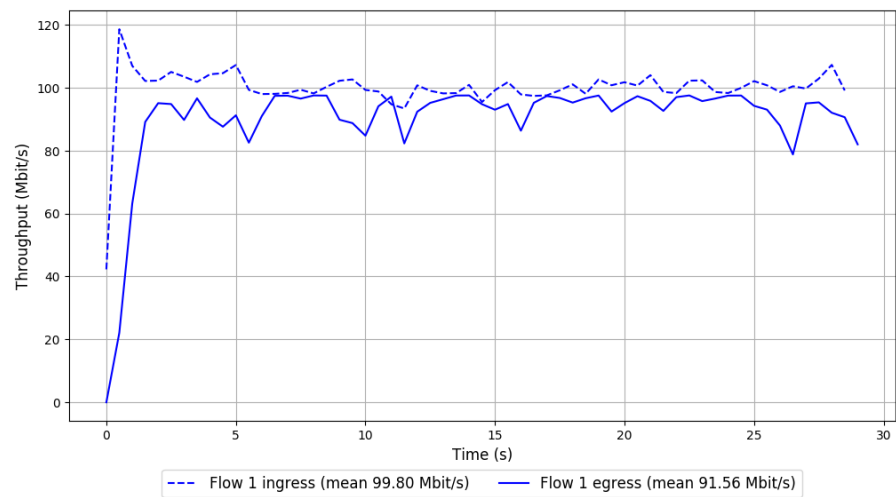
Run 5: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 7.07 Mbit/s)   Flow 1 egress (mean 7.07 Mbit/s)

Flow 1 (95th percentile 38.66 ms)

```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-21 05:16:22
End at: 2019-01-21 05:16:52
Local clock offset: 0.876 ms
Remote clock offset: -8.645 ms


# Below is generated by plot.py at 2019-01-21 07:12:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.88 Mbit/s
95th percentile per-packet one-way delay: 9.212 ms
Loss rate: 12.72%
-- Flow 1:
Average throughput: 83.88 Mbit/s
95th percentile per-packet one-way delay: 9.212 ms
Loss rate: 12.72%
```
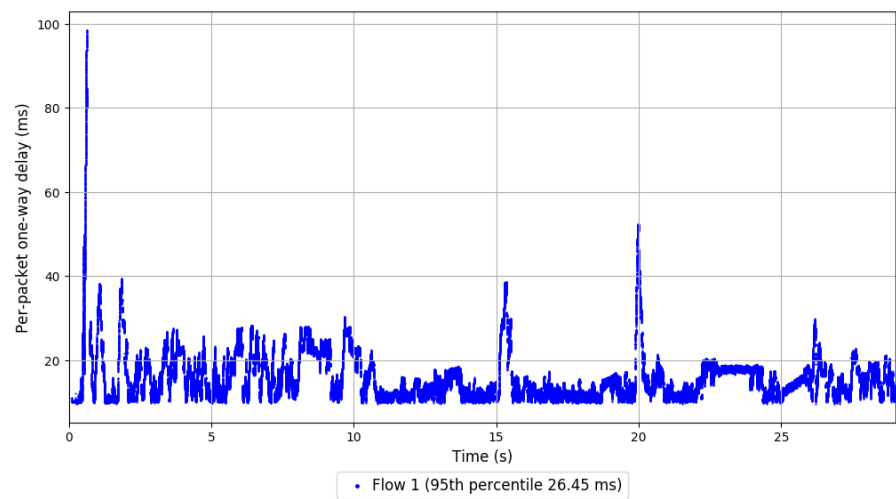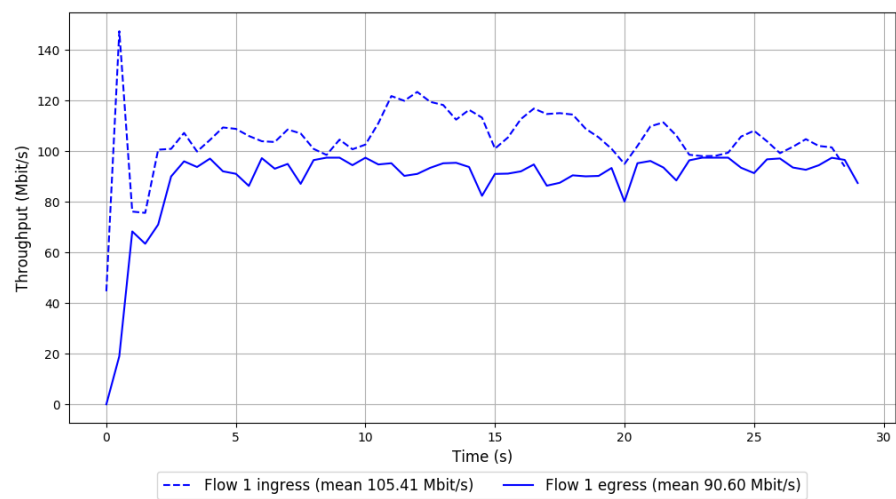
Run 1: Report of Indigo-MusesT — Data Link

- - - Flow 1 ingress (mean 96.11 Mbit/s) —— Flow 1 egress (mean 83.88 Mbit/s)
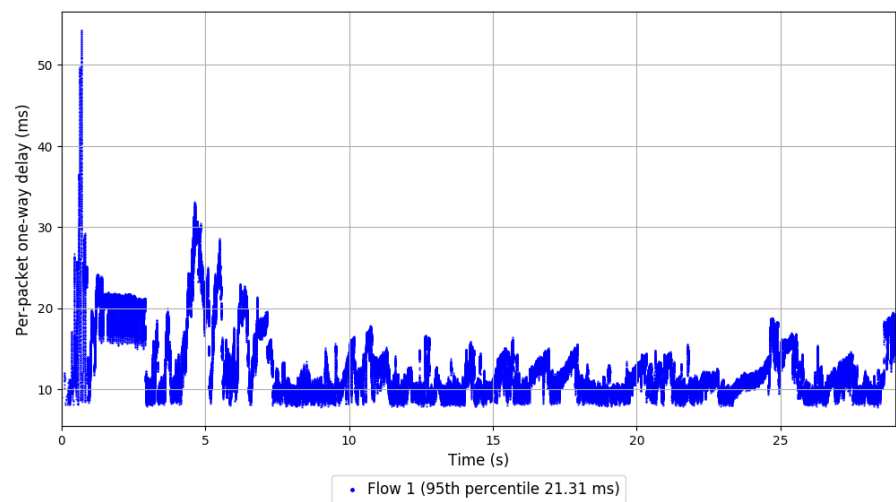

• Flow 1 (95th percentile 9.21 ms)

```
Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-21 05:42:50
End at: 2019-01-21 05:43:20
Local clock offset: -1.418 ms
Remote clock offset: -6.669 ms


# Below is generated by plot.py at 2019-01-21 07:12:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.56 Mbit/s
95th percentile per-packet one-way delay: 11.905 ms
Loss rate: 8.26%
-- Flow 1:
Average throughput: 91.56 Mbit/s
95th percentile per-packet one-way delay: 11.905 ms
Loss rate: 8.26%
```
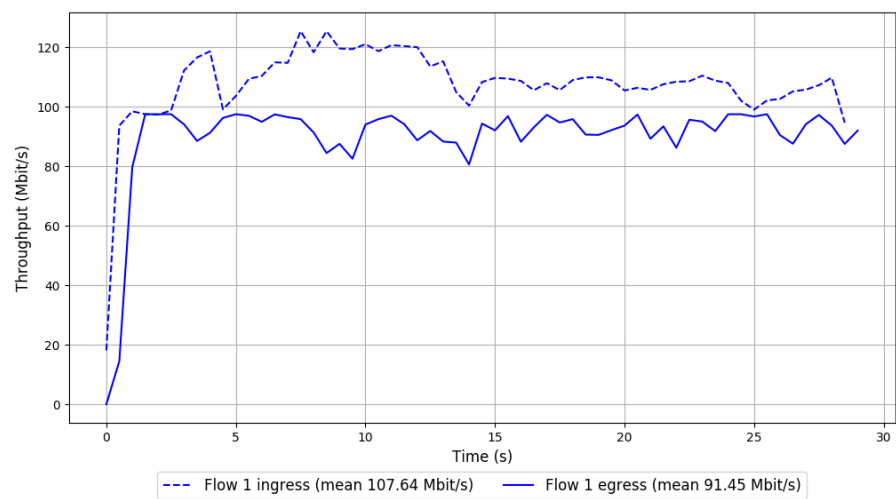
Run 2: Report of Indigo-MusesT — Data Link

```
Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-21 06:10:09
End at: 2019-01-21 06:10:39
Local clock offset: -0.912 ms
Remote clock offset: 0.398 ms


# Below is generated by plot.py at 2019-01-21 07:12:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 26.450 ms
Loss rate: 14.05%
-- Flow 1:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 26.450 ms
Loss rate: 14.05%
```
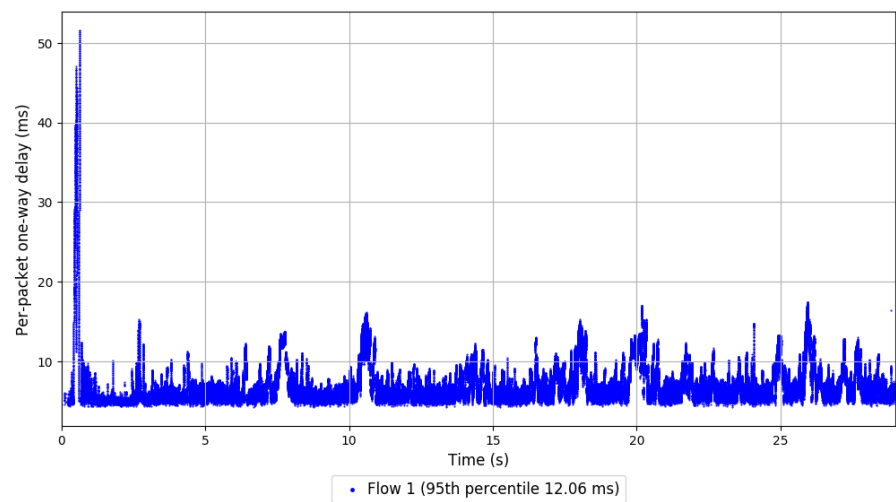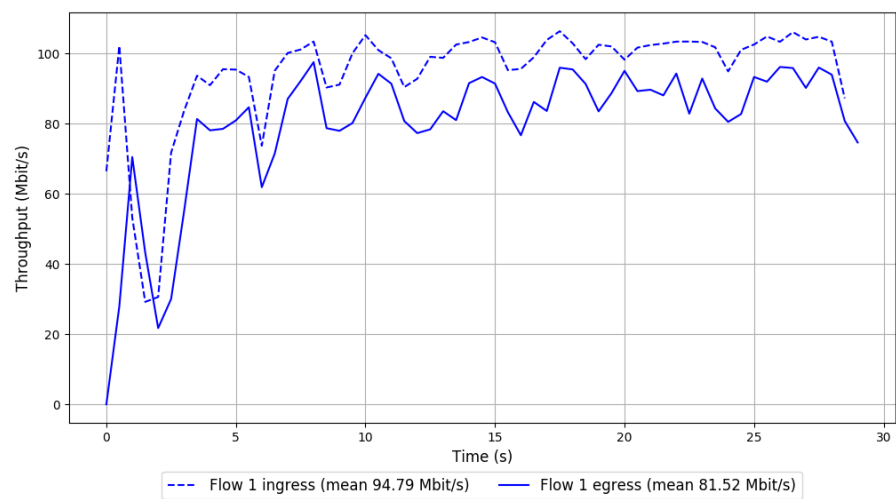
Run 3: Report of Indigo-MusesT — Data Link

```
Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-21 06:37:21
End at: 2019-01-21 06:37:51
Local clock offset: -0.215 ms
Remote clock offset: -1.472 ms


# Below is generated by plot.py at 2019-01-21 07:12:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 21.309 ms
Loss rate: 15.02%
-- Flow 1:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 21.309 ms
Loss rate: 15.02%
```
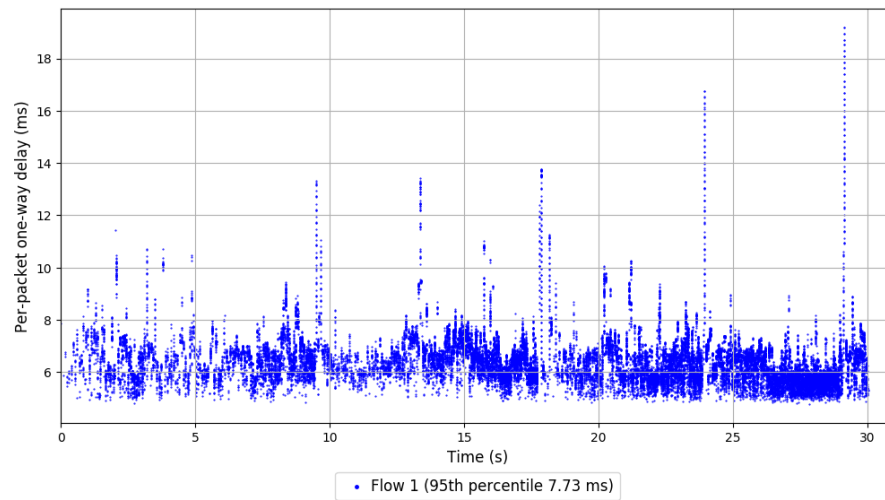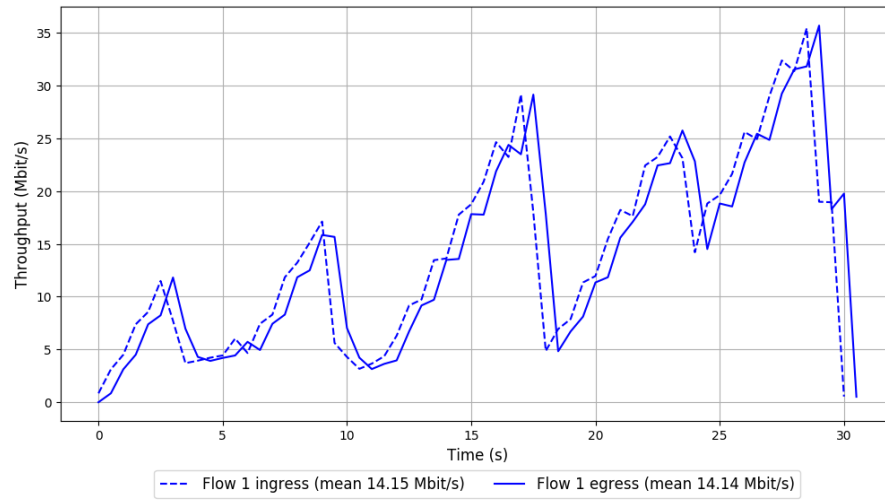
Run 4: Report of Indigo-MusesT — Data Link

```
Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-21 07:03:08
End at: 2019-01-21 07:03:38
Local clock offset: 2.617 ms
Remote clock offset: -4.753 ms


# Below is generated by plot.py at 2019-01-21 07:12:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.52 Mbit/s
95th percentile per-packet one-way delay: 12.058 ms
Loss rate: 13.99%
-- Flow 1:
Average throughput: 81.52 Mbit/s
95th percentile per-packet one-way delay: 12.058 ms
Loss rate: 13.99%
```
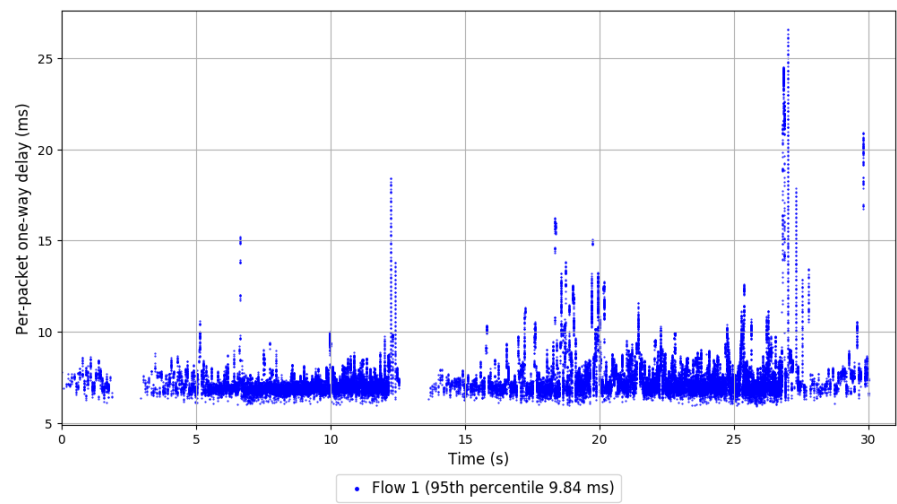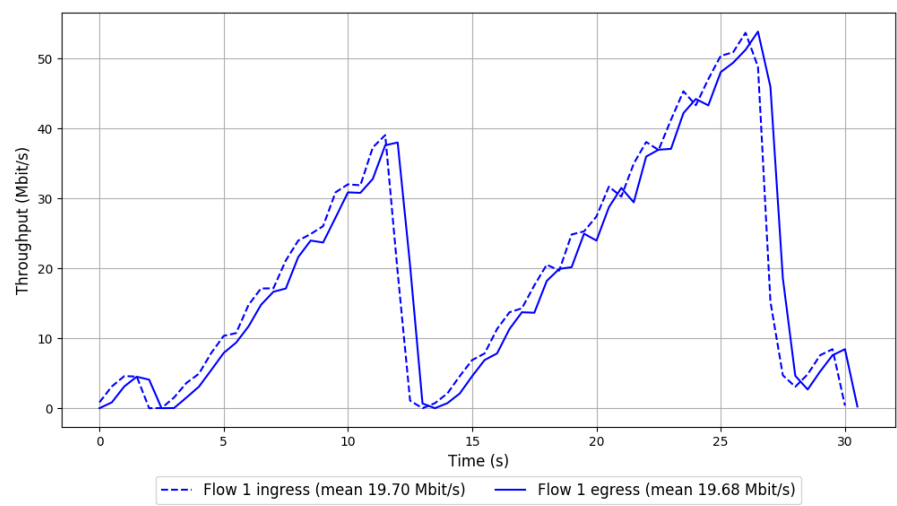
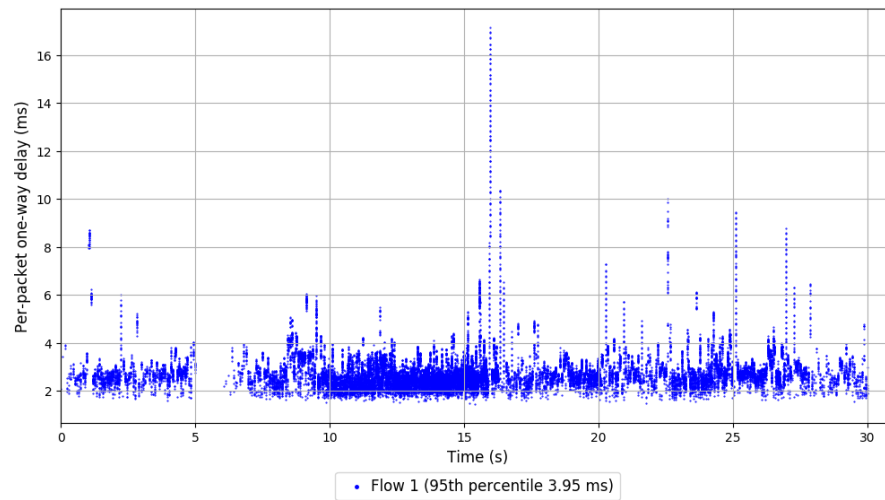Run 5: Report of Indigo-MusesT — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2019-01-21 05:06:16
End at: 2019-01-21 05:06:46
Local clock offset: -0.456 ms
Remote clock offset: -7.187 ms

# Below is generated by plot.py at 2019-01-21 07:12:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.14 Mbit/s
95th percentile per-packet one-way delay: 7.733 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 14.14 Mbit/s
95th percentile per-packet one-way delay: 7.733 ms
Loss rate: 0.07%
```
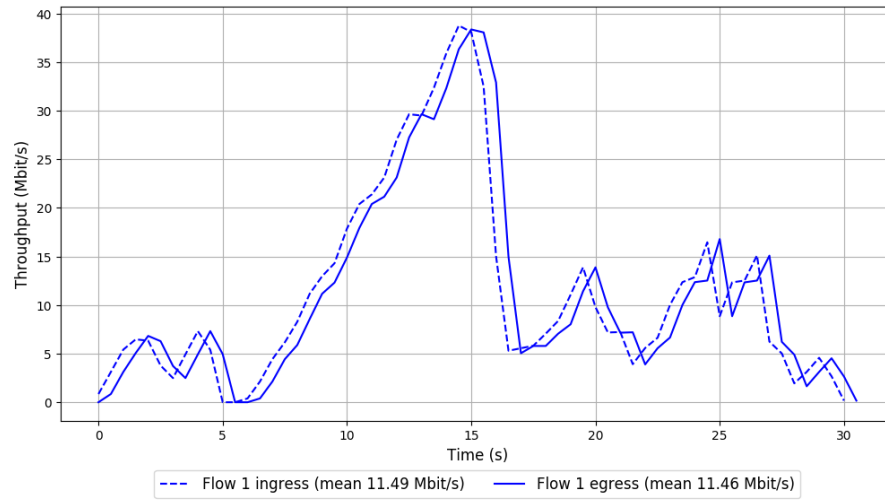
Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 14.15 Mbit/s)   Flow 1 egress (mean 14.14 Mbit/s)

Flow 1 (95th percentile 7.73 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2019-01-21 05:32:40
End at: 2019-01-21 05:33:10
Local clock offset: -1.678 ms
Remote clock offset: -4.658 ms


# Below is generated by plot.py at 2019-01-21 07:12:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.68 Mbit/s
95th percentile per-packet one-way delay: 9.843 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 19.68 Mbit/s
95th percentile per-packet one-way delay: 9.843 ms
Loss rate: 0.11%
```

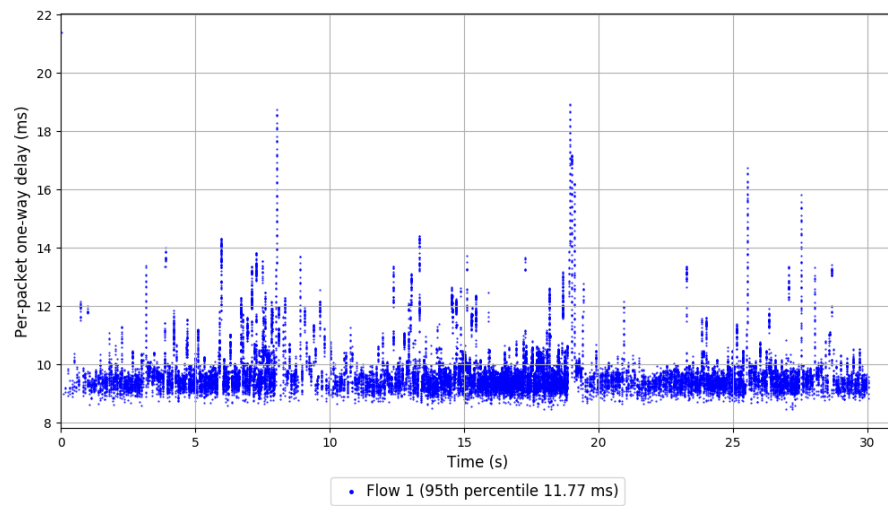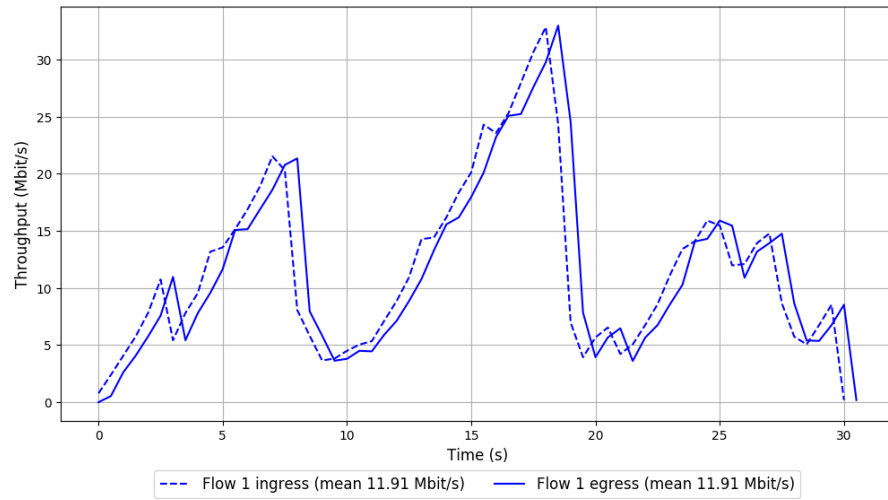Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 19.70 Mbit/s) — Flow 1 egress (mean 19.68 Mbit/s)

Flow 1 (95th percentile 9.84 ms)

```
Run 3: Statistics of LEDBAT

Start at: 2019-01-21 06:00:28
End at: 2019-01-21 06:00:58
Local clock offset: -0.769 ms
Remote clock offset: -7.359 ms


# Below is generated by plot.py at 2019-01-21 07:12:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.46 Mbit/s
95th percentile per-packet one-way delay: 3.951 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 11.46 Mbit/s
95th percentile per-packet one-way delay: 3.951 ms
Loss rate: 0.19%
```

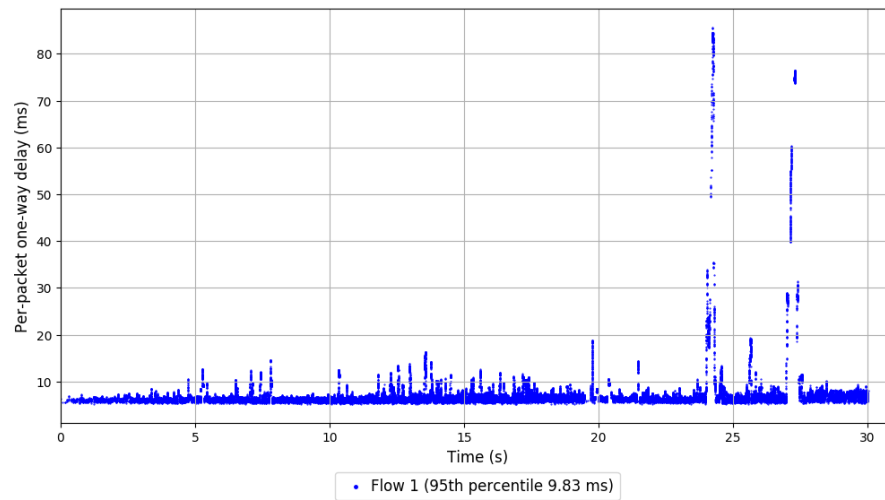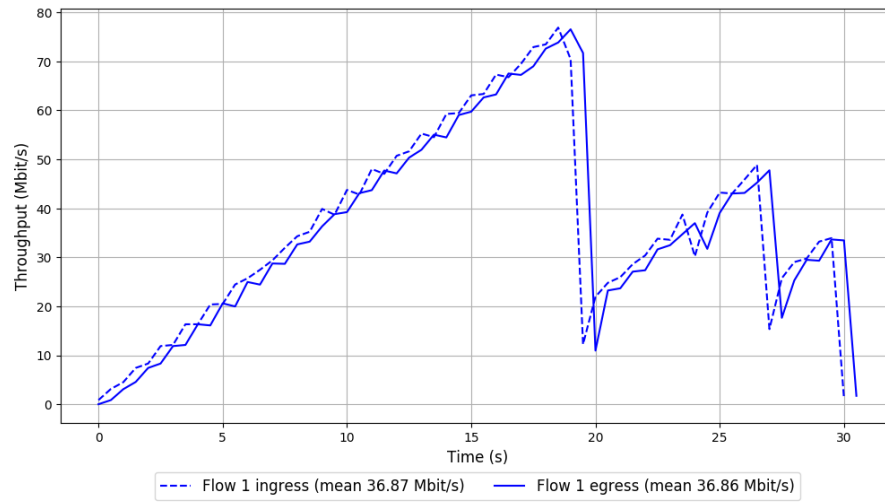## Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2019-01-21 06:27:31
End at: 2019-01-21 06:28:01
Local clock offset: -1.176 ms
Remote clock offset: -1.686 ms

# Below is generated by plot.py at 2019-01-21 07:12:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 11.769 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 11.769 ms
Loss rate: 0.07%
```
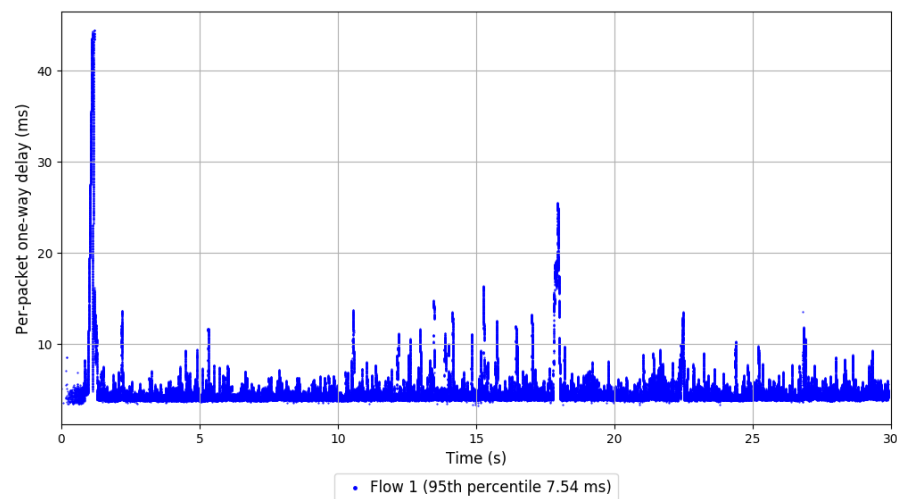
Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2019-01-21 06:53:43
End at: 2019-01-21 06:54:13
Local clock offset: 1.196 ms
Remote clock offset: -3.728 ms


# Below is generated by plot.py at 2019-01-21 07:12:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.86 Mbit/s
95th percentile per-packet one-way delay: 9.830 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 36.86 Mbit/s
95th percentile per-packet one-way delay: 9.830 ms
Loss rate: 0.01%
```

Run 5: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-21 05:07:27
End at: 2019-01-21 05:07:57
Local clock offset: 2.289 ms
Remote clock offset: -6.14 ms


# Below is generated by plot.py at 2019-01-21 07:12:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.20 Mbit/s
95th percentile per-packet one-way delay: 7.538 ms
Loss rate: 5.53%
-- Flow 1:
Average throughput: 71.20 Mbit/s
95th percentile per-packet one-way delay: 7.538 ms
Loss rate: 5.53%
```
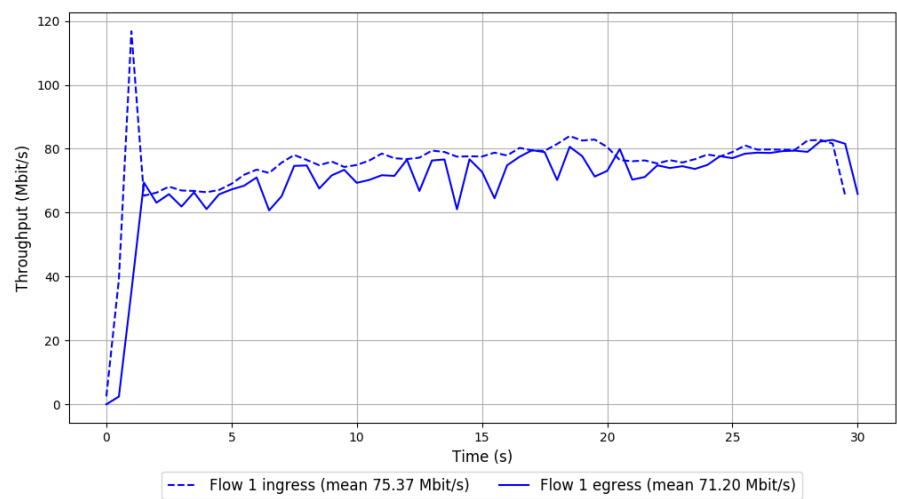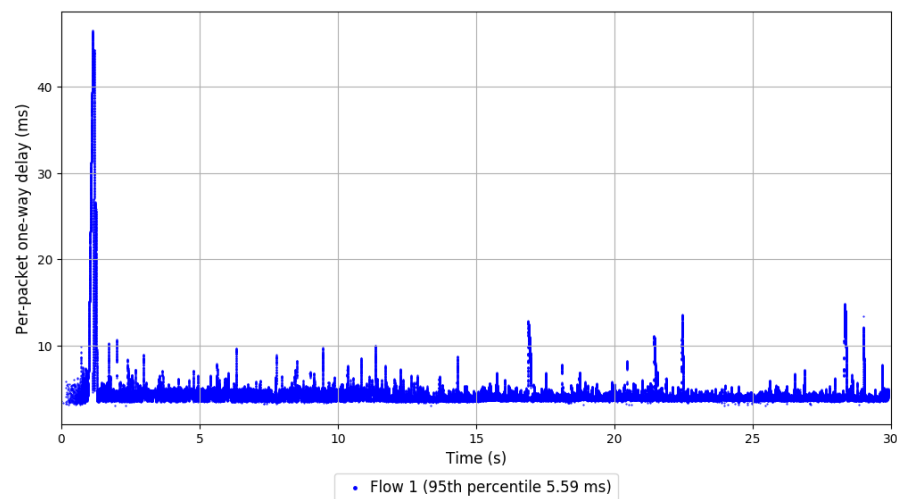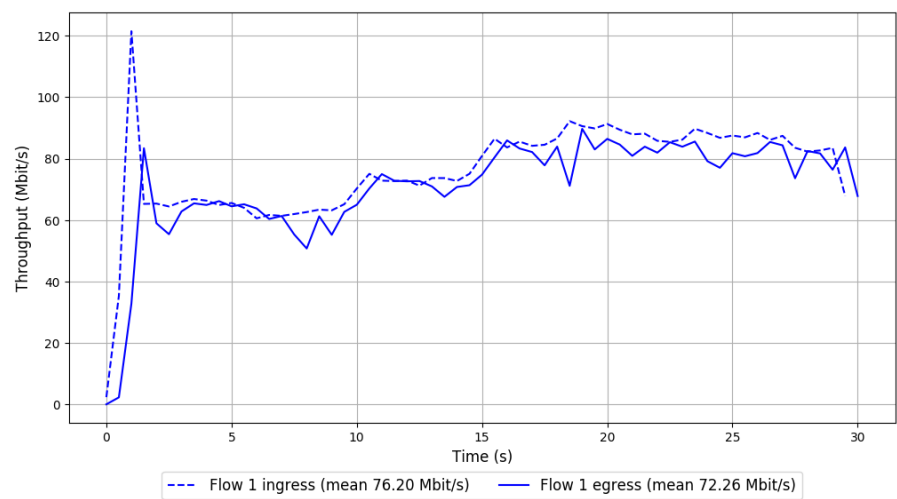
Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2019-01-21 05:33:52
End at: 2019-01-21 05:34:22
Local clock offset: -0.197 ms
Remote clock offset: -6.146 ms


# Below is generated by plot.py at 2019-01-21 07:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.26 Mbit/s
95th percentile per-packet one-way delay: 5.588 ms
Loss rate: 5.17%
-- Flow 1:
Average throughput: 72.26 Mbit/s
95th percentile per-packet one-way delay: 5.588 ms
Loss rate: 5.17%
```

Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2019-01-21 06:01:37
End at: 2019-01-21 06:02:07
Local clock offset: 0.991 ms
Remote clock offset: -5.574 ms


# Below is generated by plot.py at 2019-01-21 07:13:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.42 Mbit/s
95th percentile per-packet one-way delay: 71.107 ms
Loss rate: 6.61%
-- Flow 1:
Average throughput: 58.42 Mbit/s
95th percentile per-packet one-way delay: 71.107 ms
Loss rate: 6.61%
```
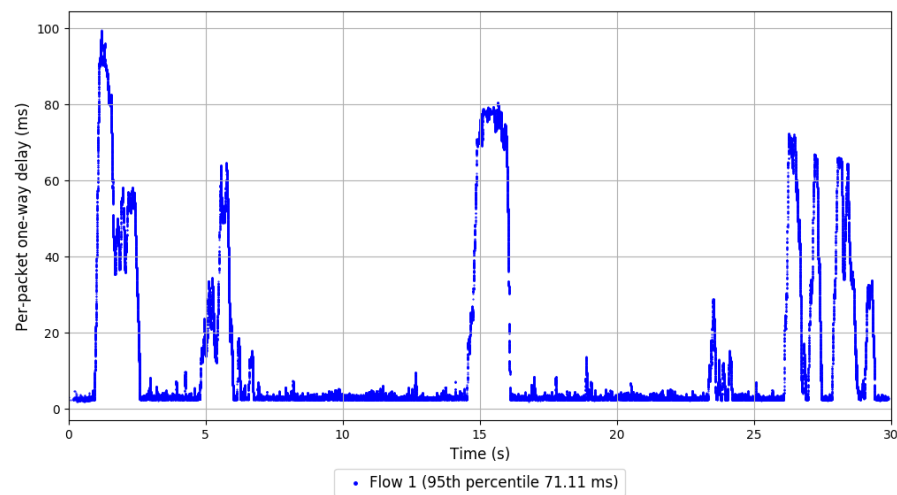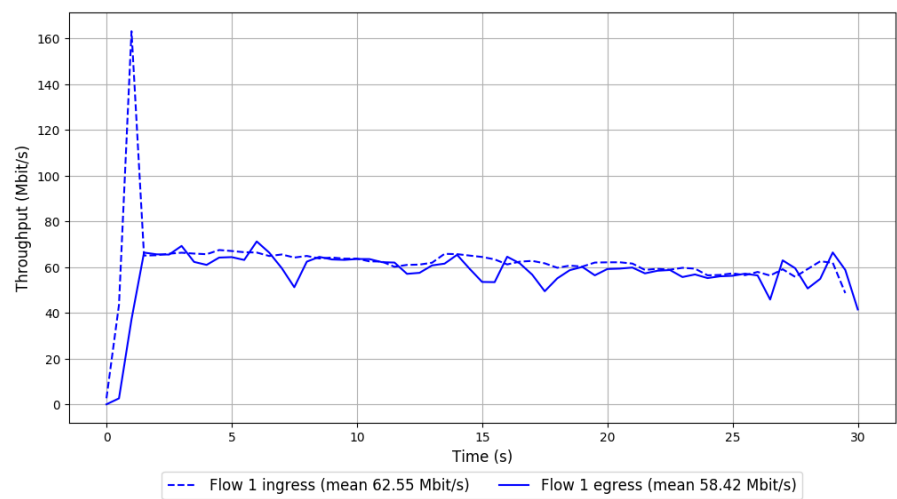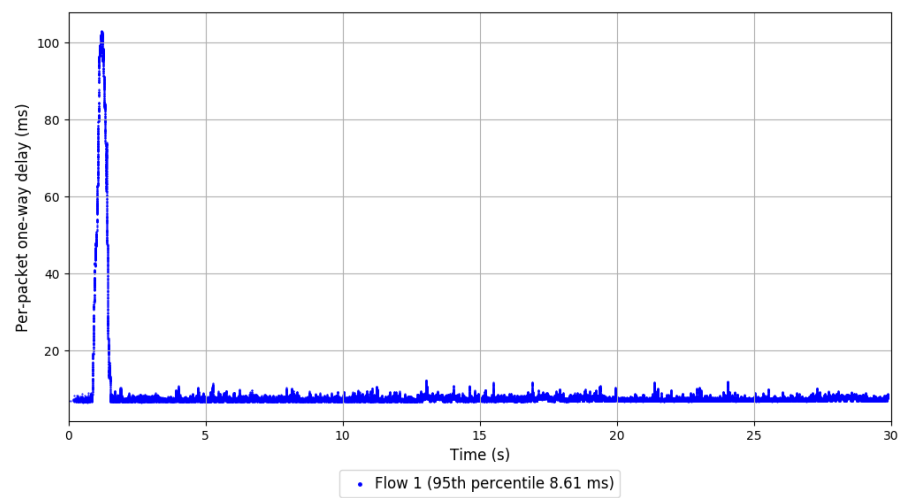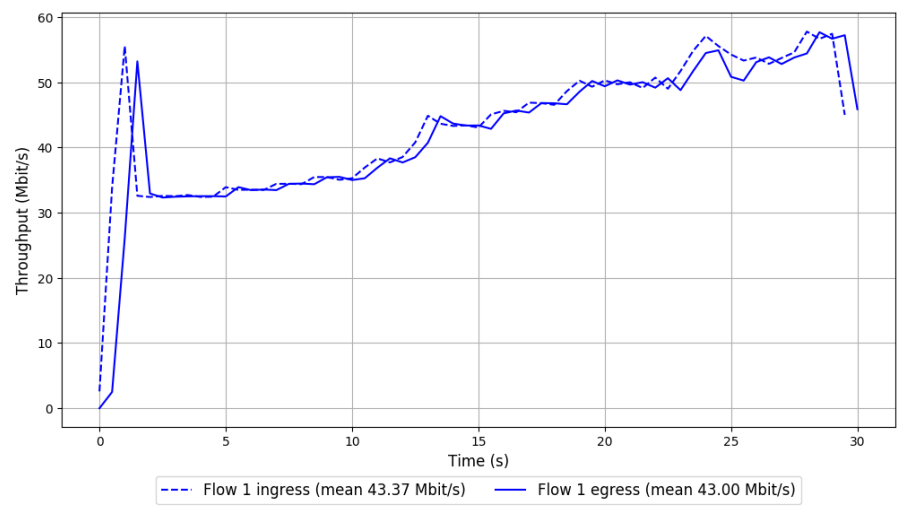
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 62.55 Mbit/s) --- Flow 1 egress (mean 58.42 Mbit/s)

Flow 1 (95th percentile 71.11 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2019-01-21 06:28:41
End at: 2019-01-21 06:29:11
Local clock offset: 2.392 ms
Remote clock offset: -0.074 ms


# Below is generated by plot.py at 2019-01-21 07:13:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.00 Mbit/s
95th percentile per-packet one-way delay: 8.612 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 43.00 Mbit/s
95th percentile per-packet one-way delay: 8.612 ms
Loss rate: 0.83%
```
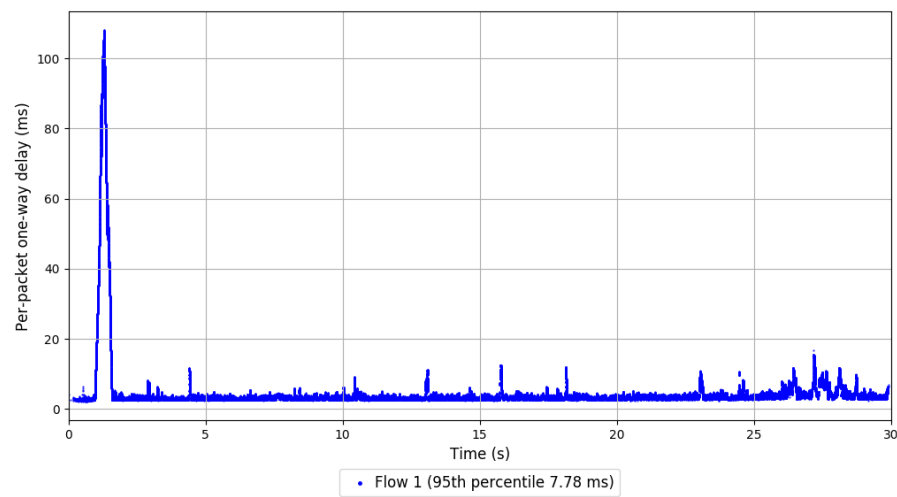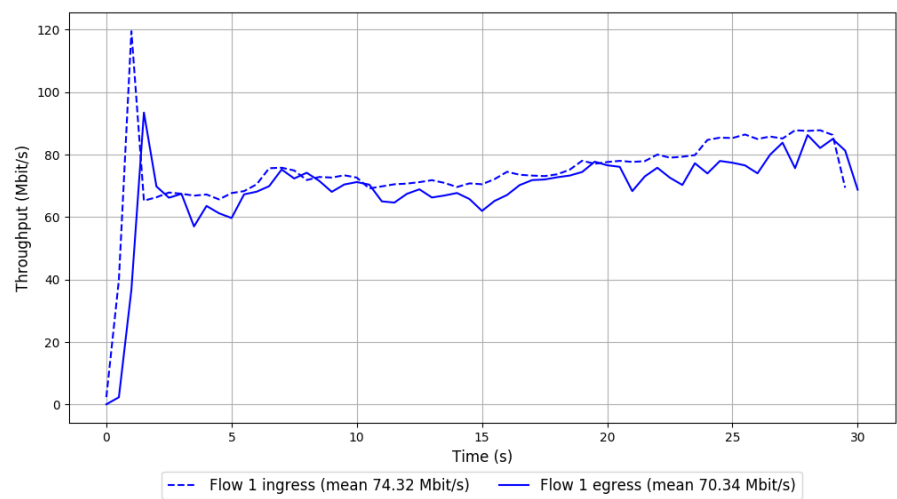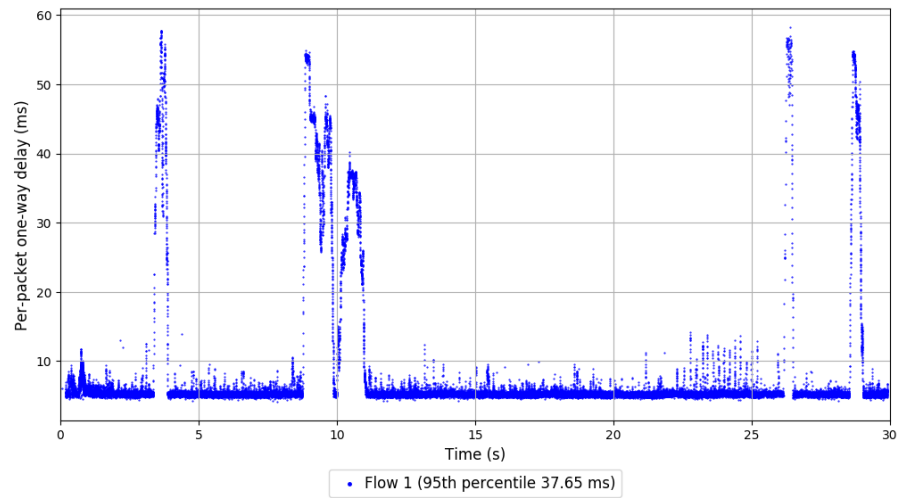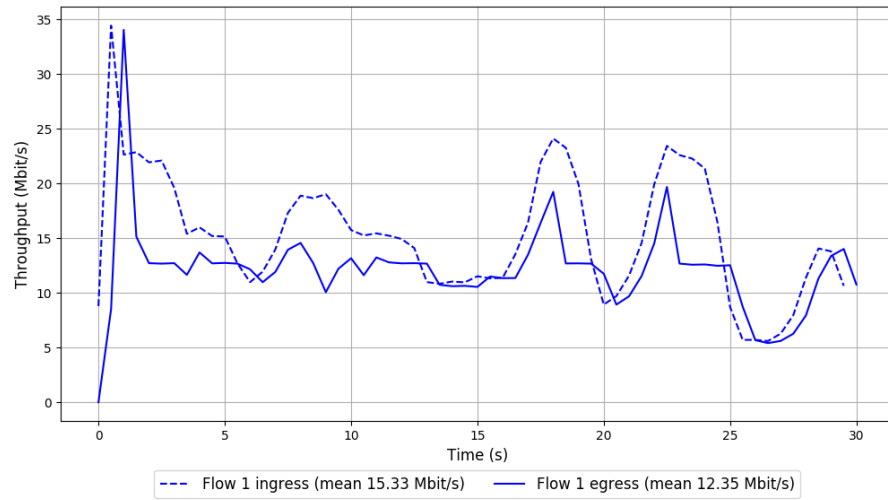
Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 43.37 Mbit/s) ----   Flow 1 egress (mean 43.00 Mbit/s) ——

• Flow 1 (95th percentile 8.61 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2019-01-21 06:54:53
End at: 2019-01-21 06:55:23
Local clock offset: 2.54 ms
Remote clock offset: -6.141 ms


# Below is generated by plot.py at 2019-01-21 07:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.34 Mbit/s
95th percentile per-packet one-way delay: 7.776 ms
Loss rate: 5.36%
-- Flow 1:
Average throughput: 70.34 Mbit/s
95th percentile per-packet one-way delay: 7.776 ms
Loss rate: 5.36%
```
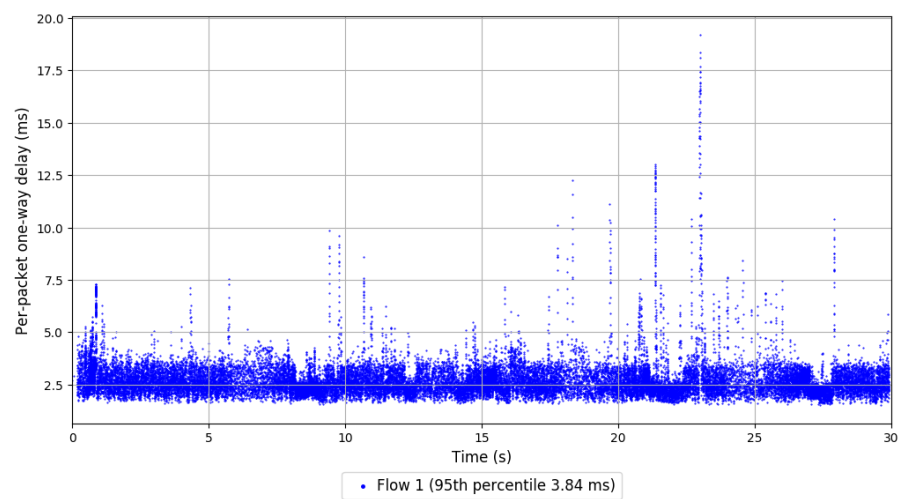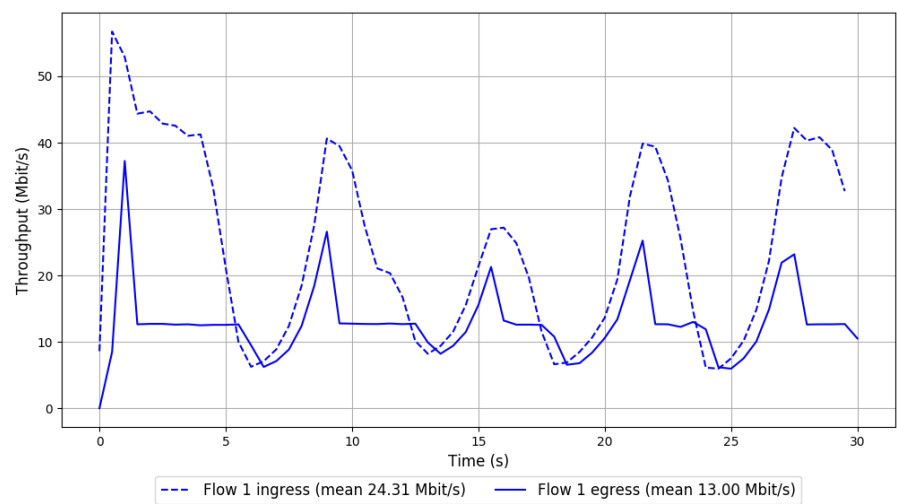
Run 5: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 74.32 Mbit/s)   Flow 1 egress (mean 70.34 Mbit/s)

• Flow 1 (95th percentile 7.78 ms)

```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-21 05:11:21
End at: 2019-01-21 05:11:51
Local clock offset: -0.337 ms
Remote clock offset: -7.225 ms

# Below is generated by plot.py at 2019-01-21 07:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.35 Mbit/s
95th percentile per-packet one-way delay: 37.652 ms
Loss rate: 19.43%
-- Flow 1:
Average throughput: 12.35 Mbit/s
95th percentile per-packet one-way delay: 37.652 ms
Loss rate: 19.43%
```
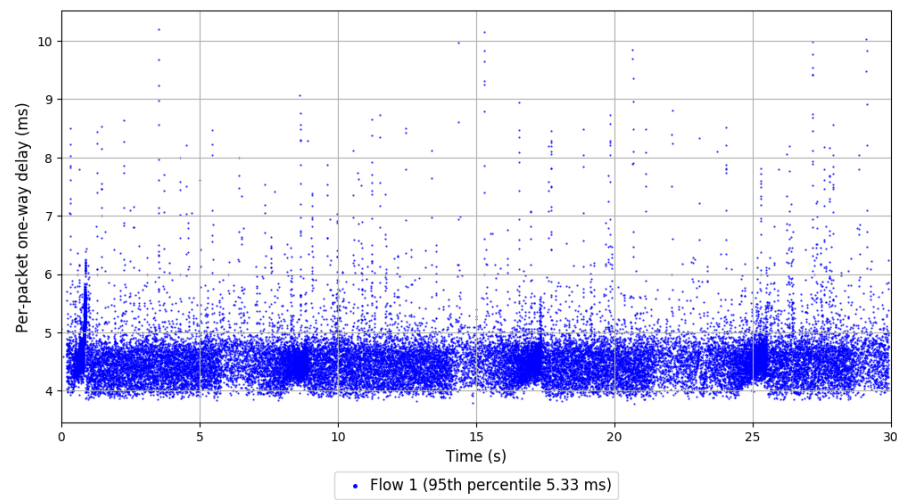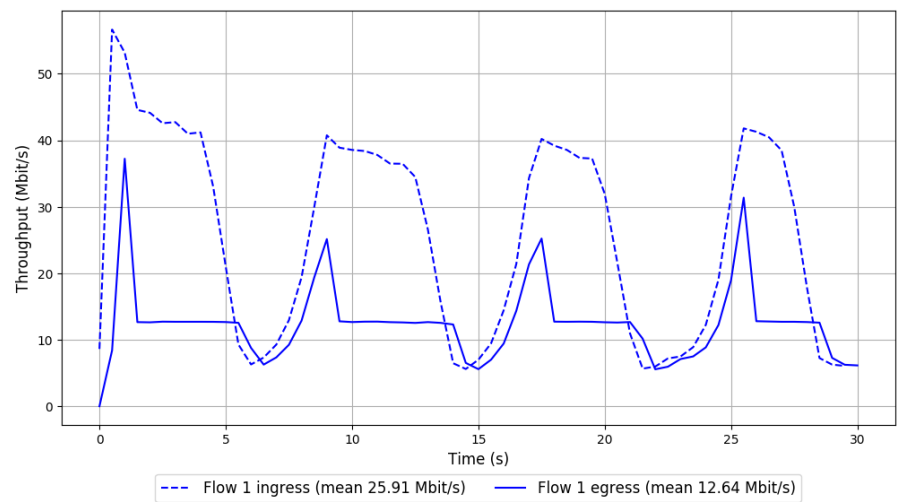
Run 1: Report of PCC-Expr — Data Link

```
Run 2: Statistics of PCC-Expr

Start at: 2019-01-21 05:37:58
End at: 2019-01-21 05:38:28
Local clock offset: -1.25 ms
Remote clock offset: -8.287 ms


# Below is generated by plot.py at 2019-01-21 07:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.00 Mbit/s
95th percentile per-packet one-way delay: 3.836 ms
Loss rate: 46.53%
-- Flow 1:
Average throughput: 13.00 Mbit/s
95th percentile per-packet one-way delay: 3.836 ms
Loss rate: 46.53%
```

Run 2: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 24.31 Mbit/s) --- Flow 1 egress (mean 13.00 Mbit/s)

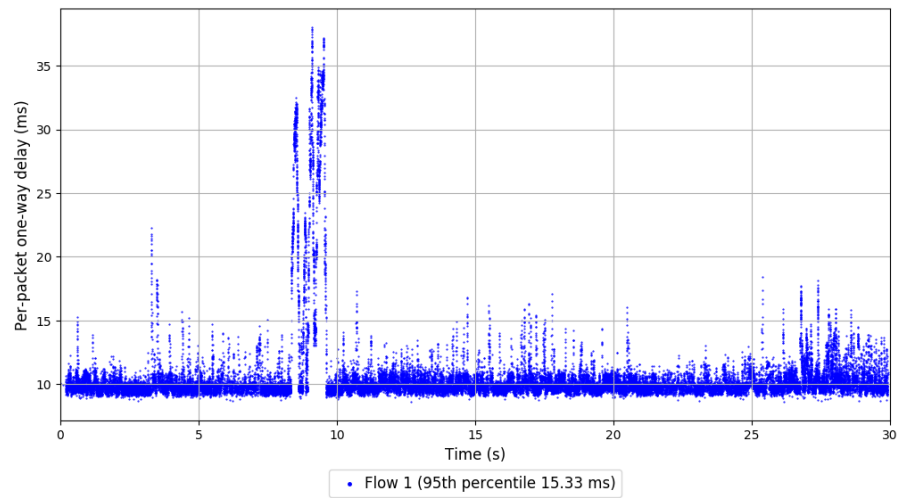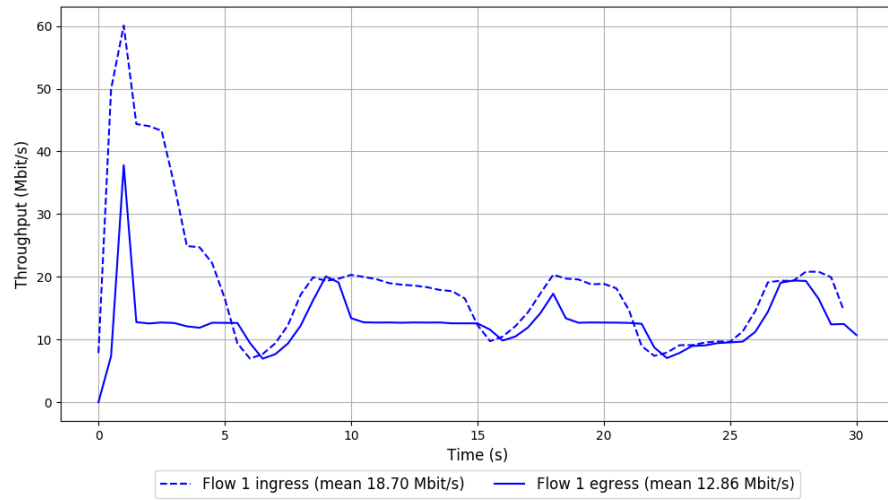Flow 1 (95th percentile 3.84 ms)

```
Run 3: Statistics of PCC-Expr

Start at: 2019-01-21 06:05:14
End at: 2019-01-21 06:05:44
Local clock offset: -0.631 ms
Remote clock offset: -5.278 ms


# Below is generated by plot.py at 2019-01-21 07:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.64 Mbit/s
95th percentile per-packet one-way delay: 5.331 ms
Loss rate: 51.21%
-- Flow 1:
Average throughput: 12.64 Mbit/s
95th percentile per-packet one-way delay: 5.331 ms
Loss rate: 51.21%
```
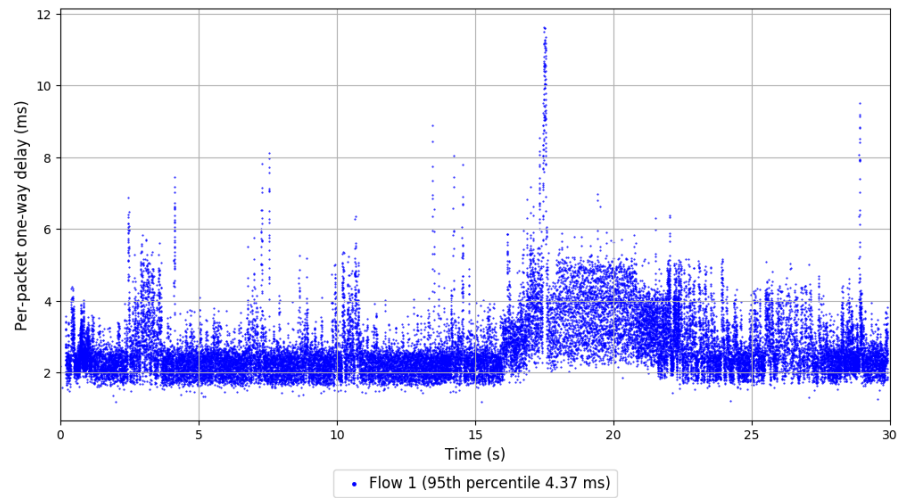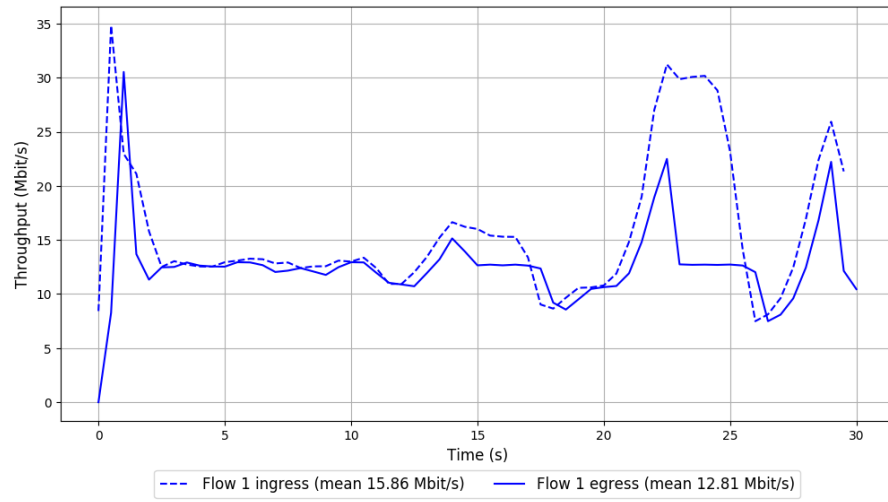
Run 3: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 25.91 Mbit/s) --- Flow 1 egress (mean 12.64 Mbit/s)

Flow 1 (95th percentile 5.33 ms)

```
Run 4: Statistics of PCC-Expr

Start at: 2019-01-21 06:32:22
End at: 2019-01-21 06:32:52
Local clock offset: -0.964 ms
Remote clock offset: -0.839 ms


# Below is generated by plot.py at 2019-01-21 07:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.86 Mbit/s
95th percentile per-packet one-way delay: 15.326 ms
Loss rate: 31.22%
-- Flow 1:
Average throughput: 12.86 Mbit/s
95th percentile per-packet one-way delay: 15.326 ms
Loss rate: 31.22%
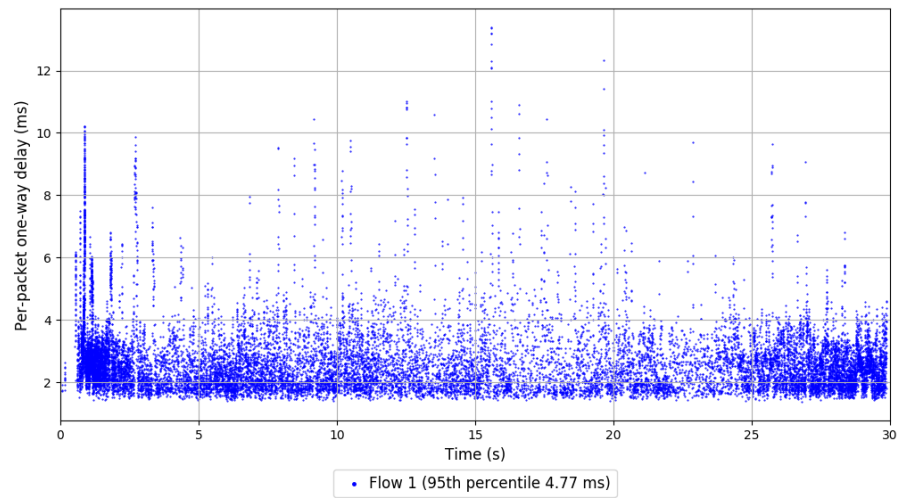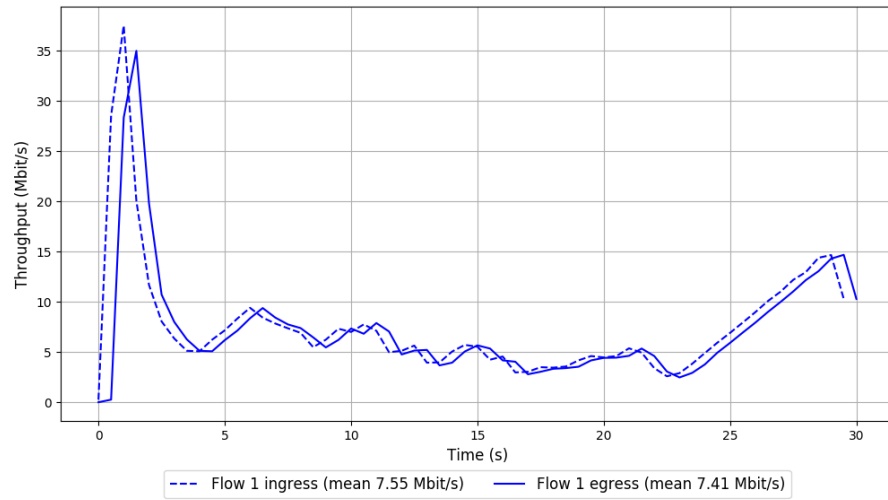```

# Run 4: Report of PCC-Expr — Data Link

```
Run 5: Statistics of PCC-Expr

Start at: 2019-01-21 06:58:25
End at: 2019-01-21 06:58:55
Local clock offset: 2.158 ms
Remote clock offset: -7.275 ms


# Below is generated by plot.py at 2019-01-21 07:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 4.374 ms
Loss rate: 19.24%
-- Flow 1:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 4.374 ms
Loss rate: 19.24%
```

Run 5: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 15.86 Mbit/s) --- Flow 1 egress (mean 12.81 Mbit/s)

Flow 1 (95th percentile 4.37 ms)

```
Run 1: Statistics of QUIC Cubic

Start at: 2019-01-21 05:01:11
End at: 2019-01-21 05:01:41
Local clock offset: 1.623 ms
Remote clock offset: -8.016 ms


# Below is generated by plot.py at 2019-01-21 07:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 4.770 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 4.770 ms
Loss rate: 1.77%
```
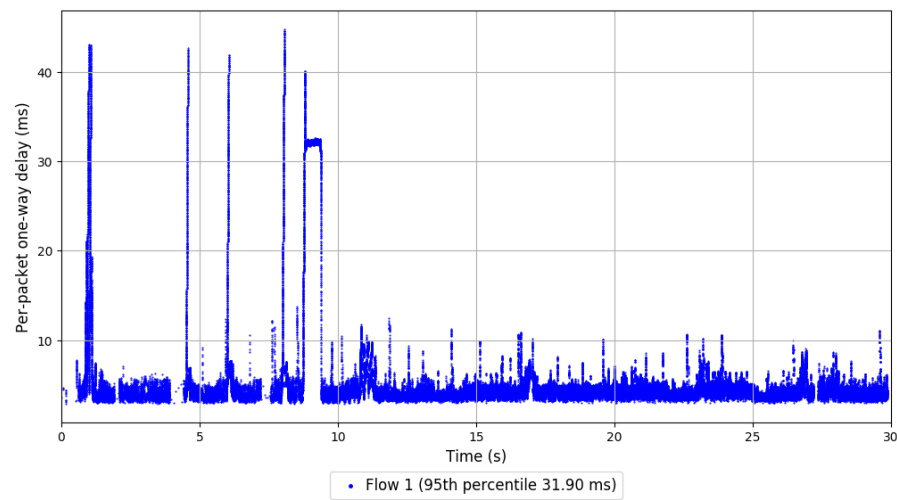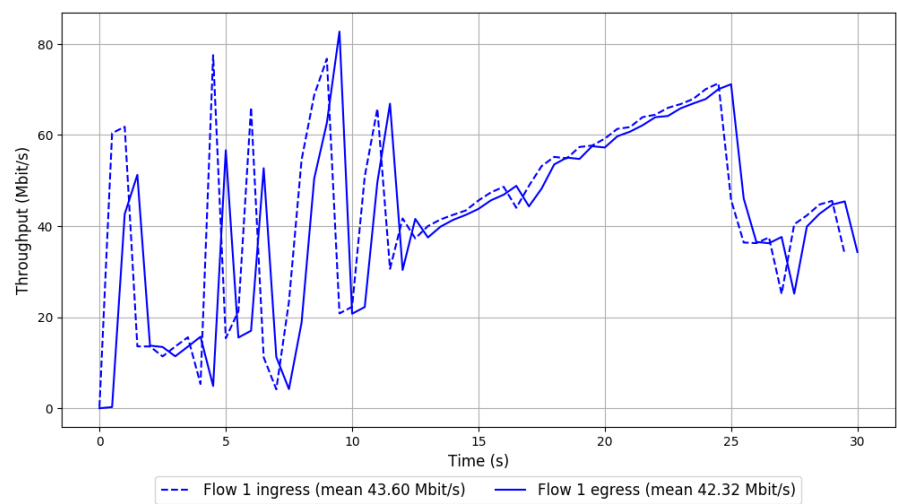
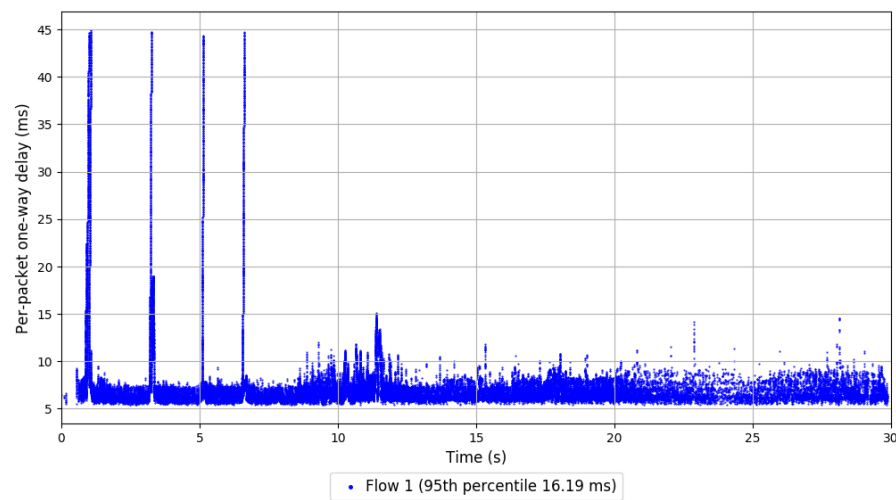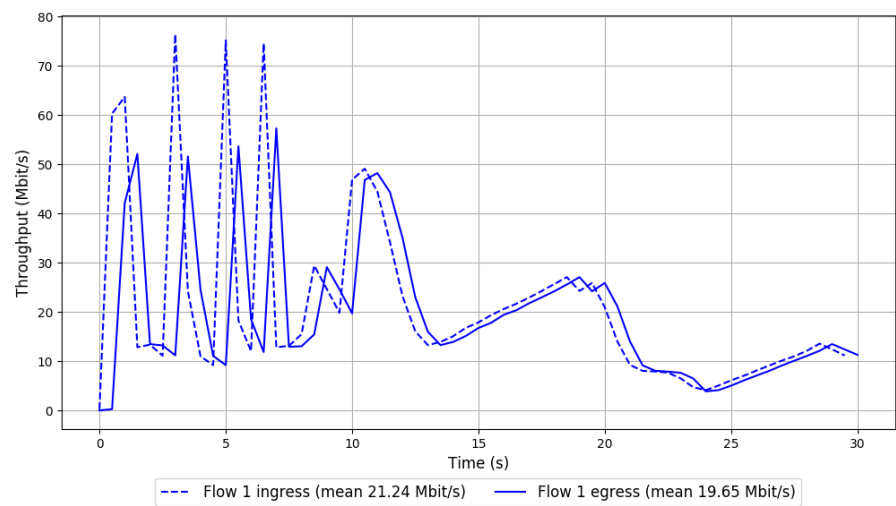Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2019-01-21 05:27:48
End at: 2019-01-21 05:28:18
Local clock offset: 0.923 ms
Remote clock offset: -5.518 ms


# Below is generated by plot.py at 2019-01-21 07:13:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.32 Mbit/s
95th percentile per-packet one-way delay: 31.900 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 42.32 Mbit/s
95th percentile per-packet one-way delay: 31.900 ms
Loss rate: 2.93%
```

Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 43.60 Mbit/s) ----   Flow 1 egress (mean 42.32 Mbit/s) ——

Flow 1 (95th percentile 31.90 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2019-01-21 05:55:20
End at: 2019-01-21 05:55:50
Local clock offset: -1.383 ms
Remote clock offset: -4.509 ms


# Below is generated by plot.py at 2019-01-21 07:13:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.65 Mbit/s
95th percentile per-packet one-way delay: 16.189 ms
Loss rate: 7.45%
-- Flow 1:
Average throughput: 19.65 Mbit/s
95th percentile per-packet one-way delay: 16.189 ms
Loss rate: 7.45%
```
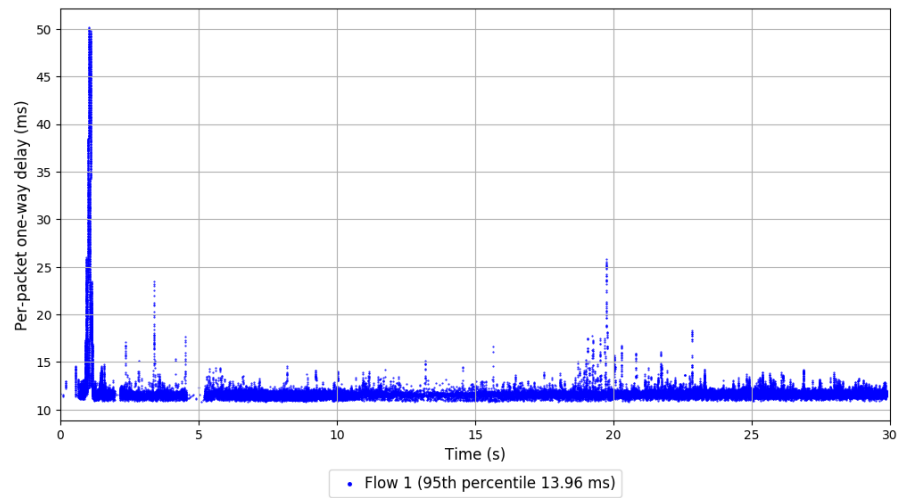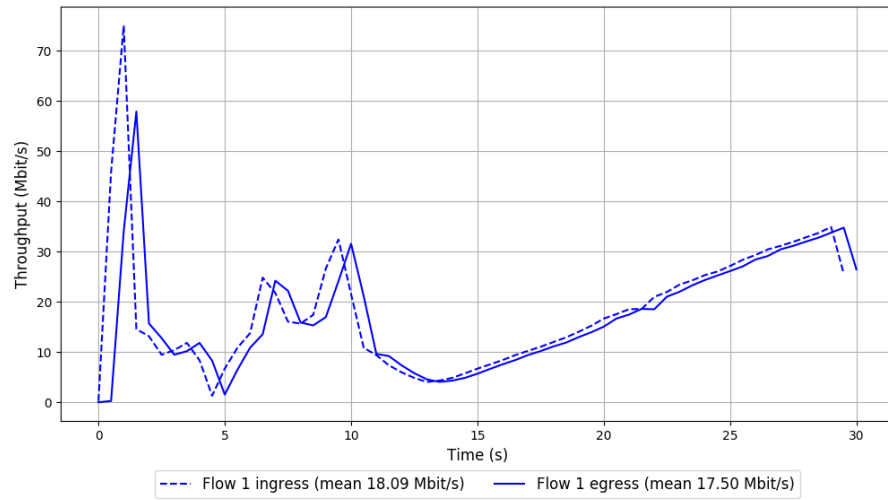
Run 3: Report of QUIC Cubic — Data Link

```
Run 4: Statistics of QUIC Cubic

Start at: 2019-01-21 06:22:11
End at: 2019-01-21 06:22:41
Local clock offset: -1.232 ms
Remote clock offset: 0.872 ms


# Below is generated by plot.py at 2019-01-21 07:13:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.50 Mbit/s
95th percentile per-packet one-way delay: 13.955 ms
Loss rate: 3.28%
-- Flow 1:
Average throughput: 17.50 Mbit/s
95th percentile per-packet one-way delay: 13.955 ms
Loss rate: 3.28%
```
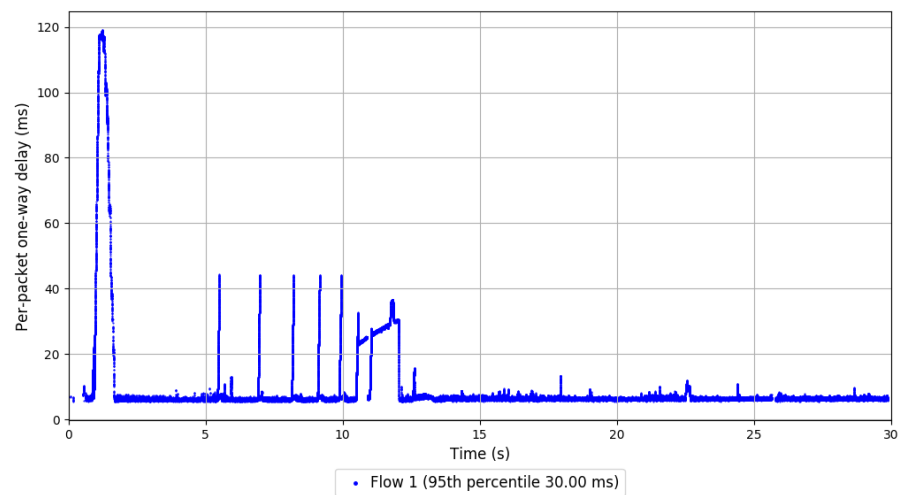
Run 4: Report of QUIC Cubic — Data Link

```
Run 5: Statistics of QUIC Cubic

Start at: 2019-01-21 06:48:56
End at: 2019-01-21 06:49:26
Local clock offset: 0.959 ms
Remote clock offset: -3.372 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.00 Mbit/s
95th percentile per-packet one-way delay: 30.005 ms
Loss rate: 3.17%
-- Flow 1:
Average throughput: 47.00 Mbit/s
95th percentile per-packet one-way delay: 30.005 ms
Loss rate: 3.17%
```
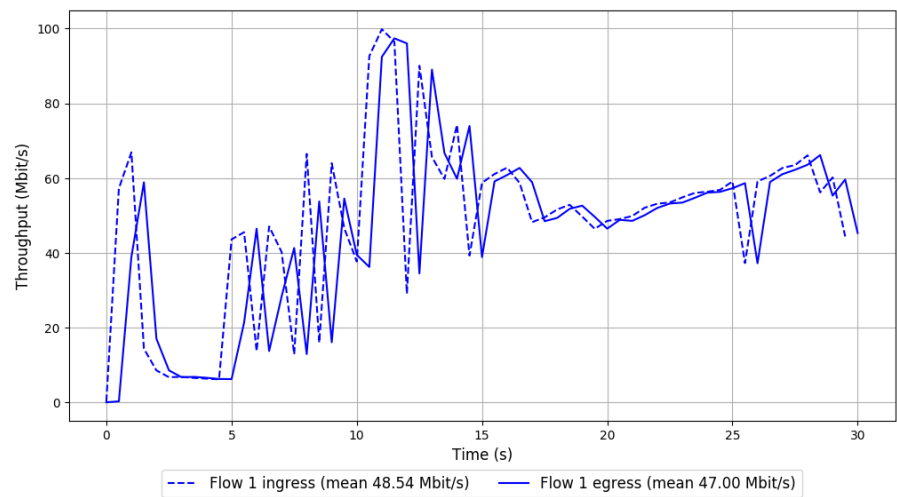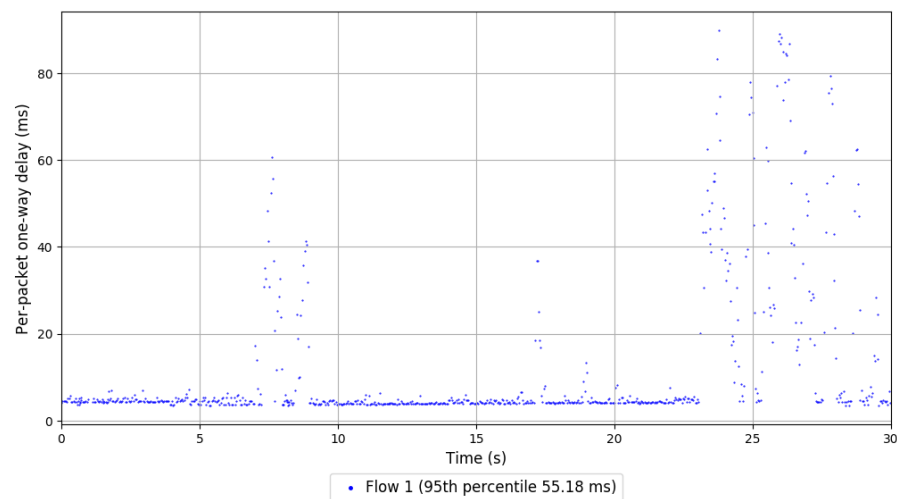
Run 5: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2019-01-21 05:08:49
End at: 2019-01-21 05:09:19
Local clock offset: 2.035 ms
Remote clock offset: -6.15 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 55.176 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 55.176 ms
Loss rate: 0.00%
```
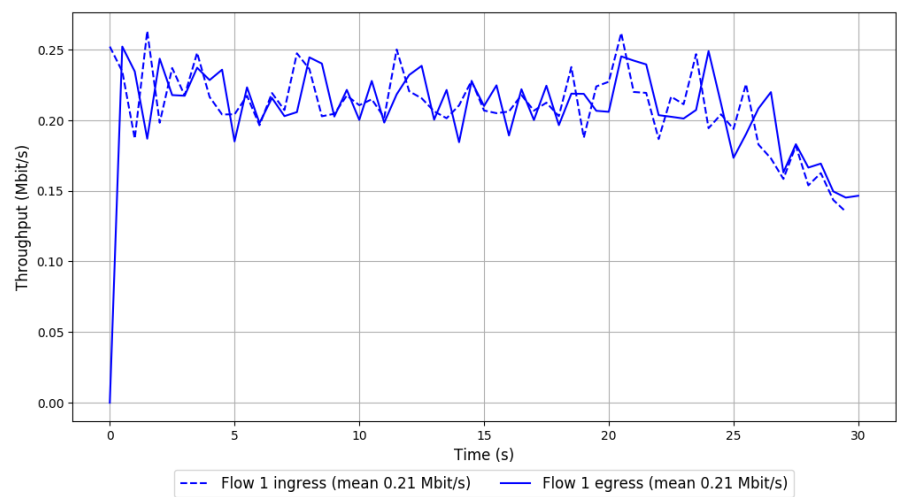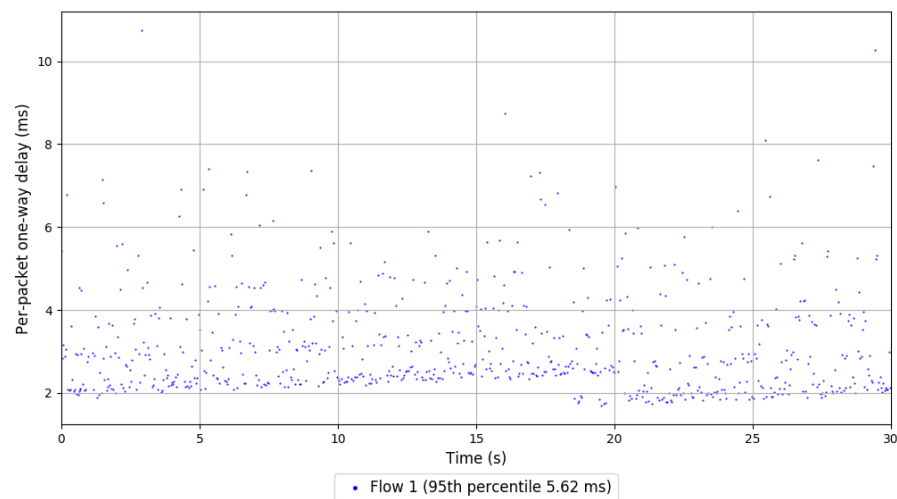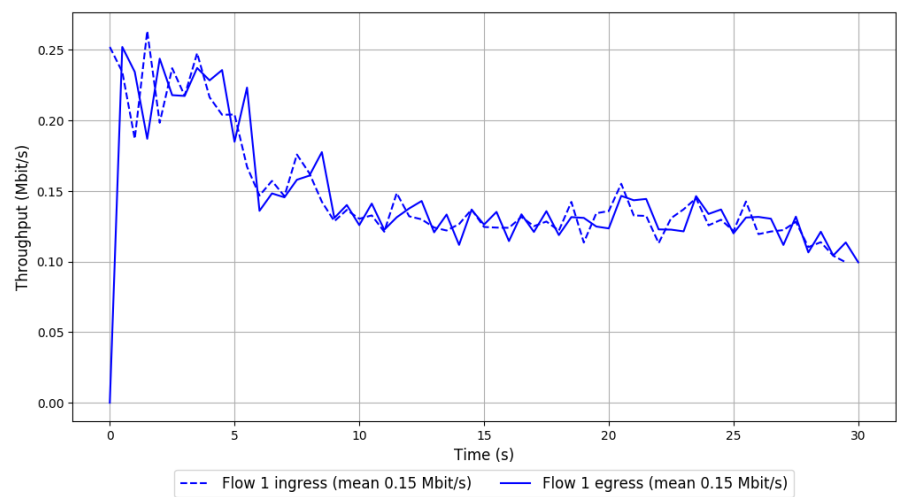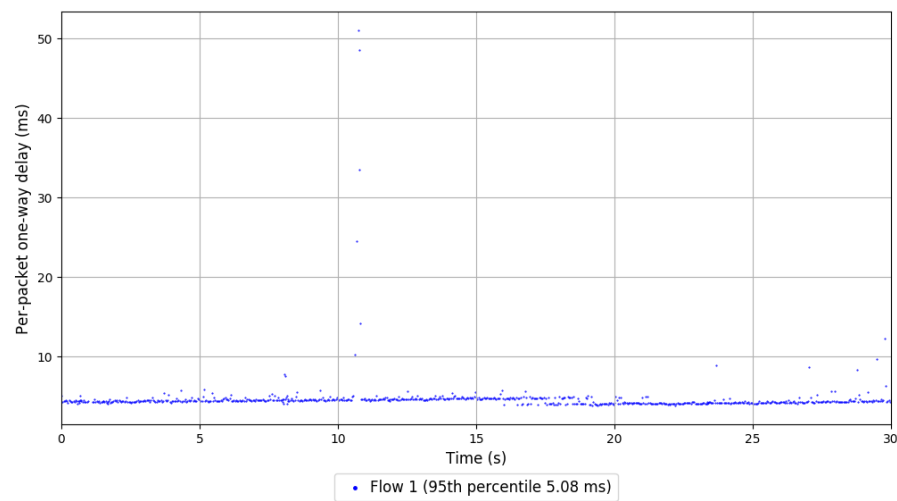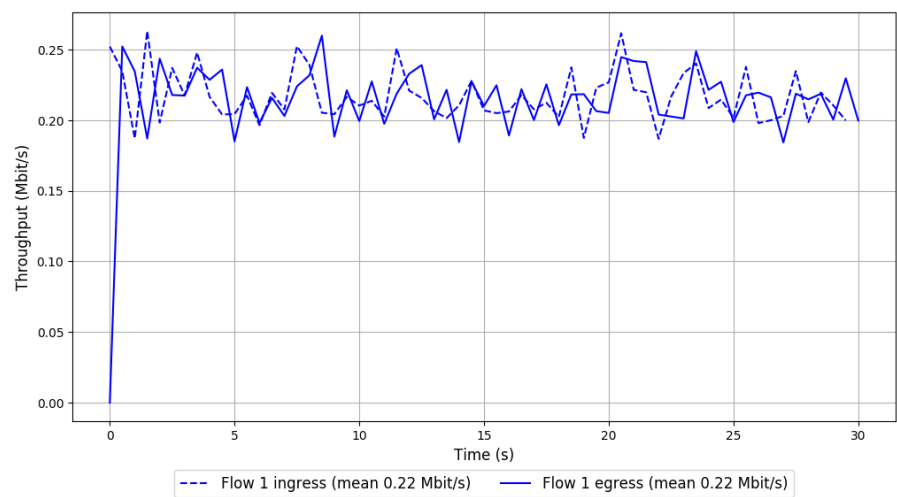
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2019-01-21 05:35:14
End at: 2019-01-21 05:35:44
Local clock offset: 0.146 ms
Remote clock offset: -6.606 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 5.616 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 5.616 ms
Loss rate: 0.45%
```

Run 2: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.15 Mbit/s) --- Flow 1 egress (mean 0.15 Mbit/s)

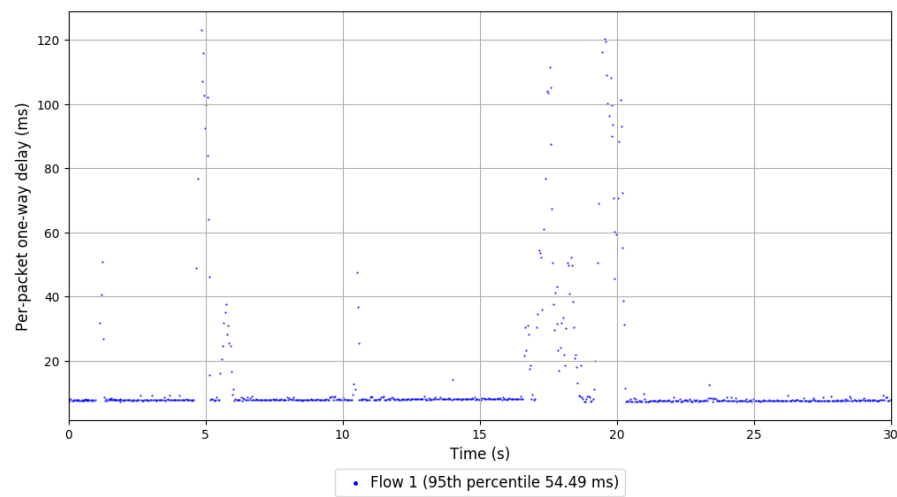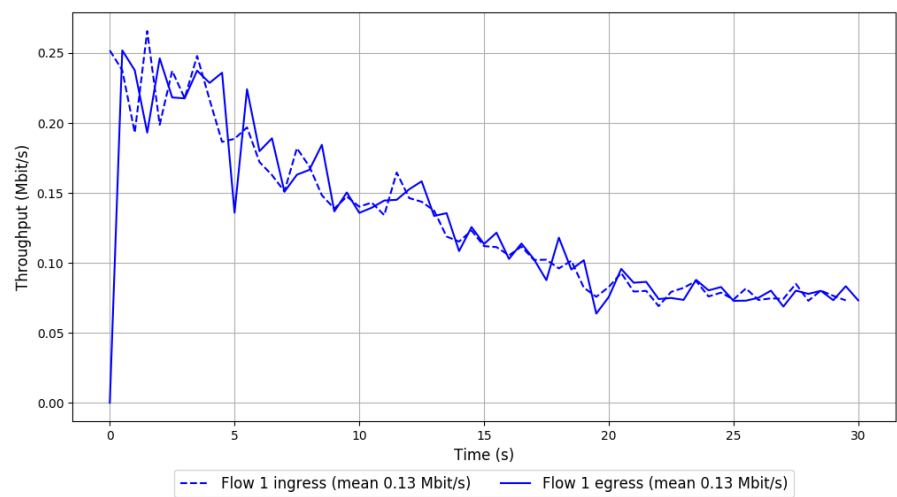Flow 1 (95th percentile 5.62 ms)

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```
Run 3: Statistics of SCReAM

Start at: 2019-01-21 06:02:51
End at: 2019-01-21 06:03:21
Local clock offset: -0.952 ms
Remote clock offset: -5.733 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 5.081 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 5.081 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)

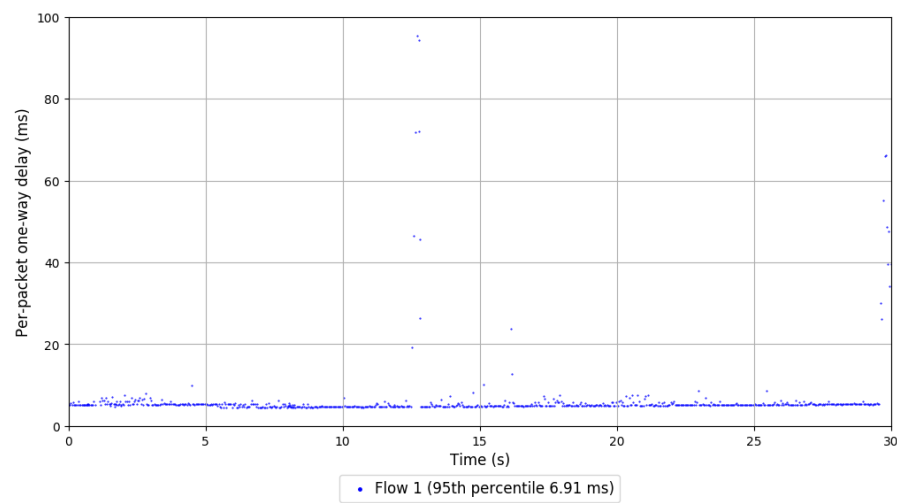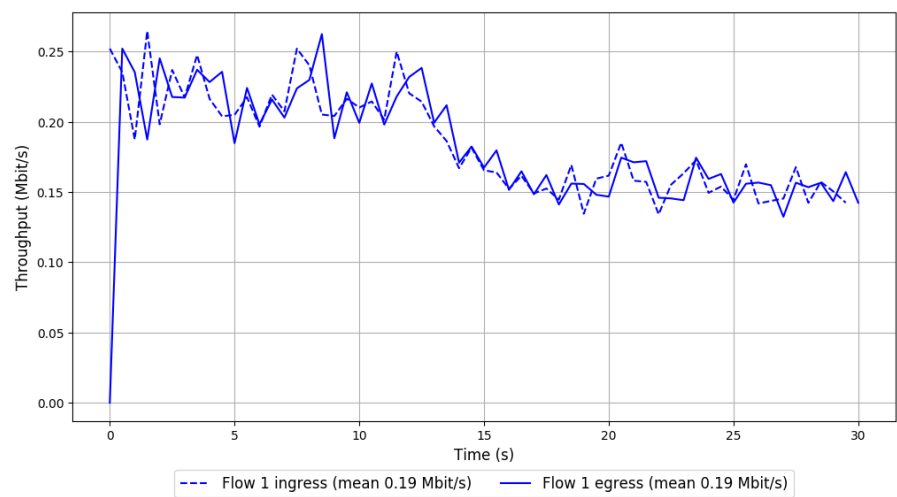Flow 1 (95th percentile 5.08 ms)

```
Run 4: Statistics of SCReAM

Start at: 2019-01-21 06:29:54
End at: 2019-01-21 06:30:24
Local clock offset: -0.321 ms
Remote clock offset: -1.463 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 54.492 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 54.492 ms
Loss rate: 0.61%
```

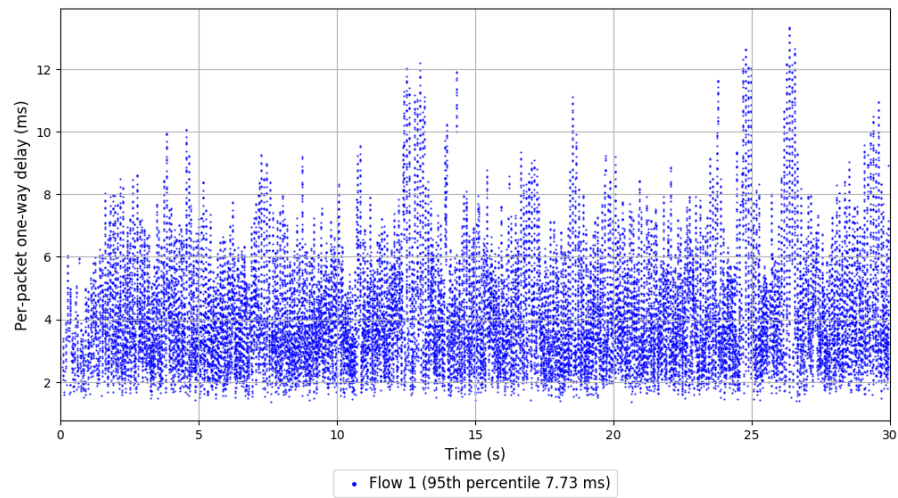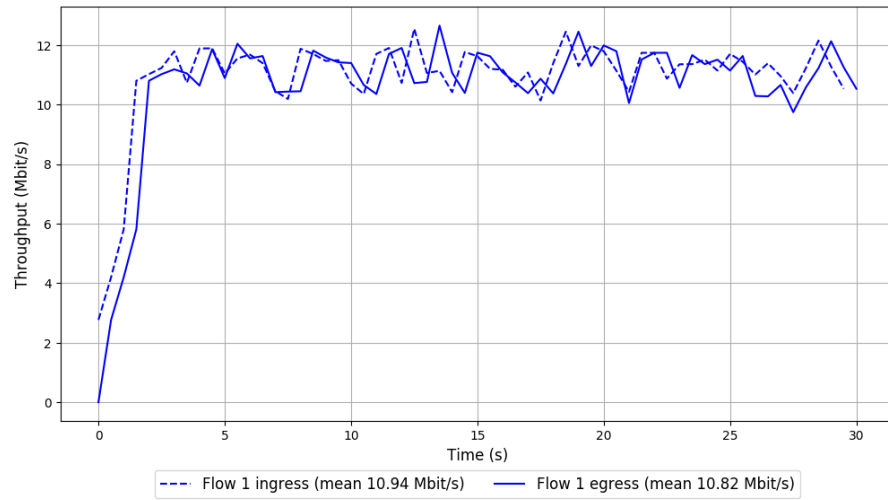## Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2019-01-21 06:56:05
End at: 2019-01-21 06:56:35
Local clock offset: 0.979 ms
Remote clock offset: -5.453 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 6.909 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 6.909 ms
Loss rate: 0.00%
```
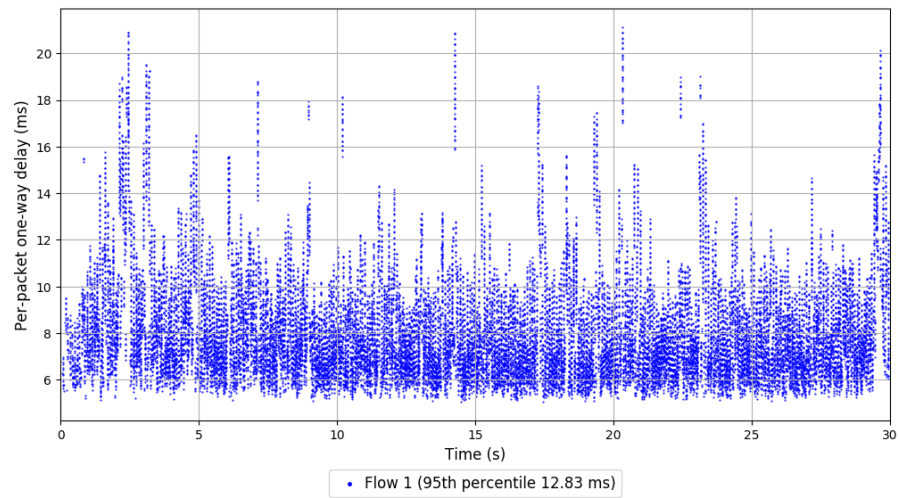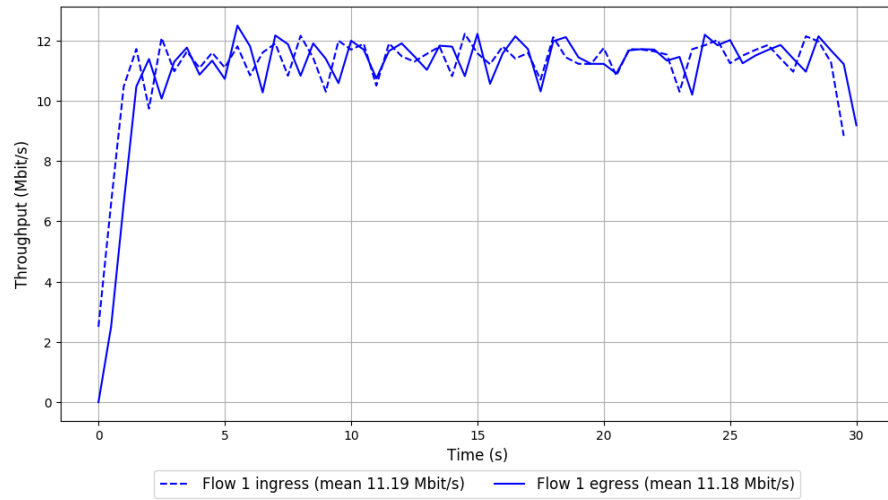
Run 5: Report of SCReAM — Data Link

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Run 1: Statistics of Sprout

Start at: 2019-01-21 04:59:59
End at: 2019-01-21 05:00:29
Local clock offset: 0.33 ms
Remote clock offset: -9.274 ms

Below is generated by plot.py at 2019-01-21 07:13:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.82 Mbit/s
95th percentile per-packet one-way delay: 7.730 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 10.82 Mbit/s
95th percentile per-packet one-way delay: 7.730 ms
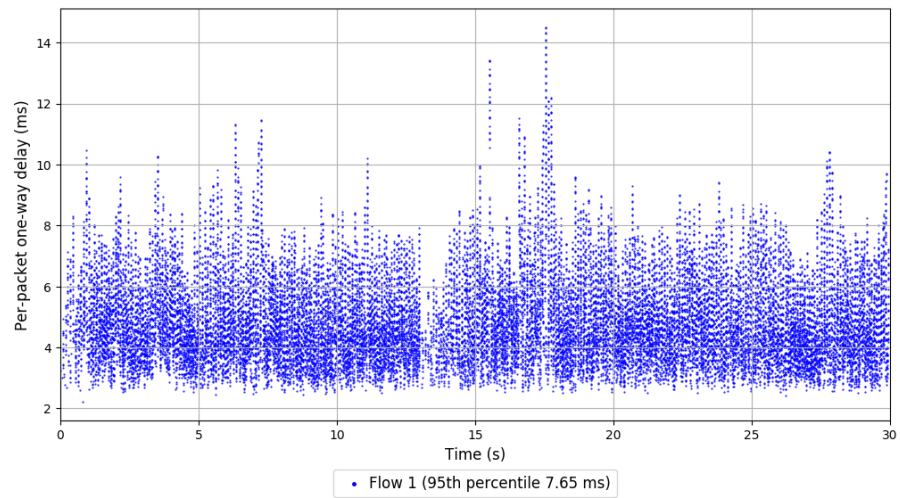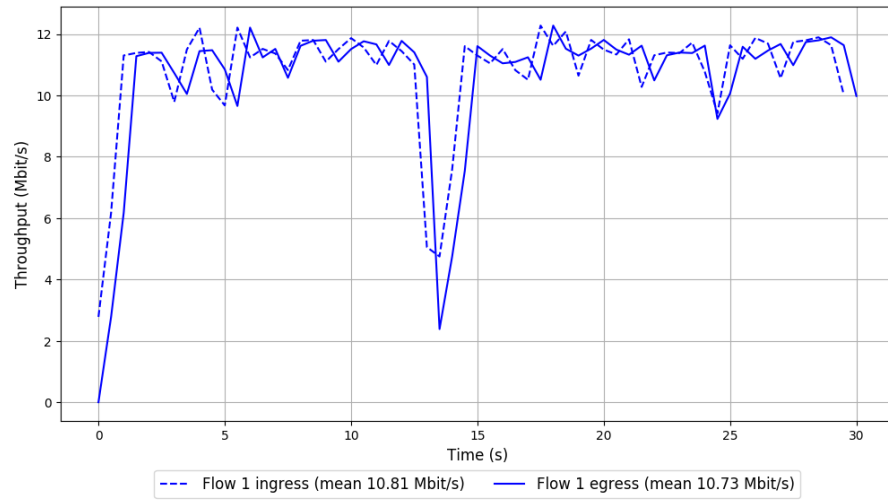Loss rate: 1.05%

Run 1: Report of Sprout — Data Link

Flow 1 ingress (mean 10.94 Mbit/s)   Flow 1 egress (mean 10.82 Mbit/s)

Flow 1 (95th percentile 7.73 ms)

```
Run 2: Statistics of Sprout

Start at: 2019-01-21 05:26:40
End at: 2019-01-21 05:27:10
Local clock offset: -2.063 ms
Remote clock offset: -6.599 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.18 Mbit/s
95th percentile per-packet one-way delay: 12.827 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.18 Mbit/s
95th percentile per-packet one-way delay: 12.827 ms
Loss rate: 0.00%
```

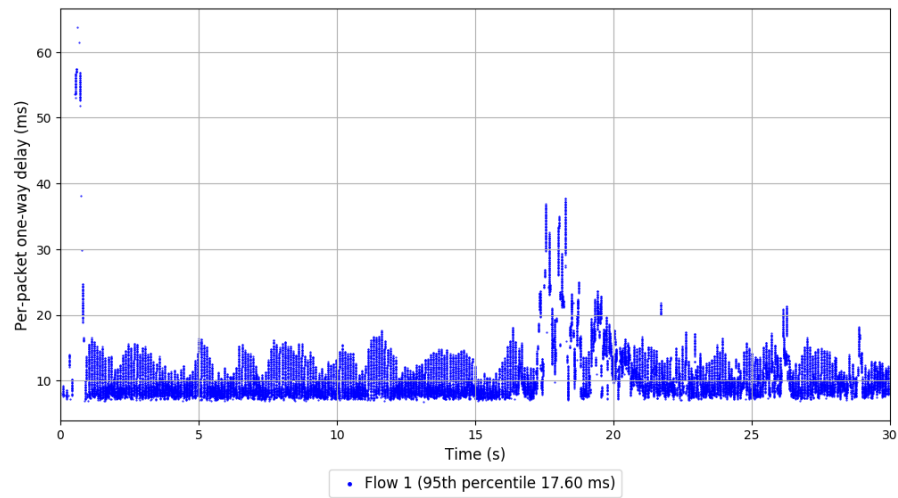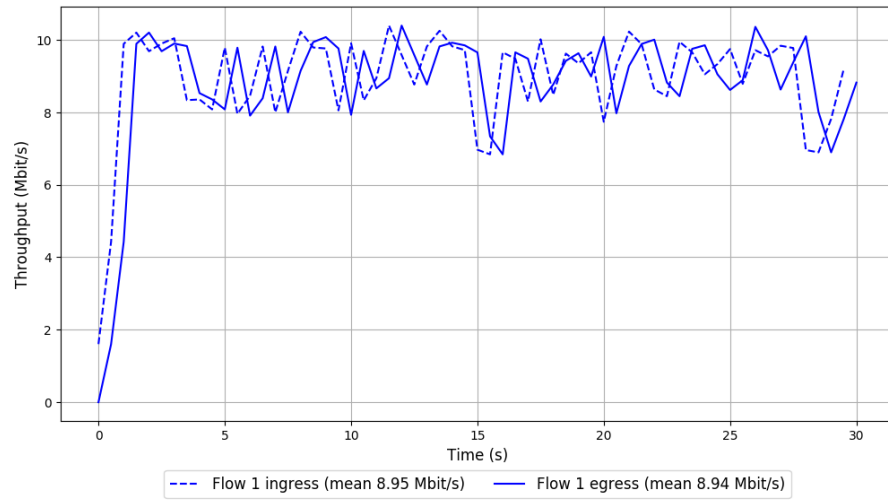Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2019-01-21 05:54:12
End at: 2019-01-21 05:54:42
Local clock offset: -0.932 ms
Remote clock offset: -7.158 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.73 Mbit/s
95th percentile per-packet one-way delay: 7.649 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 10.73 Mbit/s
95th percentile per-packet one-way delay: 7.649 ms
Loss rate: 0.70%
```

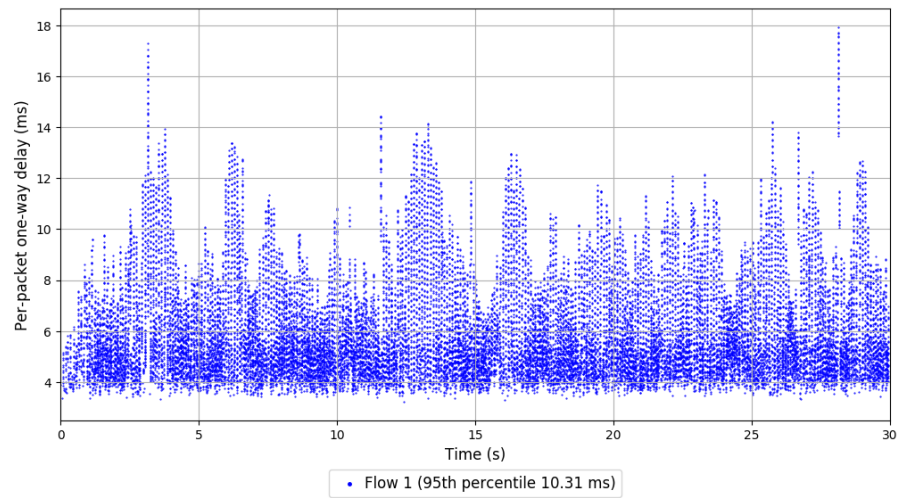## Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2019-01-21 06:21:04
End at: 2019-01-21 06:21:34
Local clock offset: -0.894 ms
Remote clock offset: -2.783 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.94 Mbit/s
95th percentile per-packet one-way delay: 17.599 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 8.94 Mbit/s
95th percentile per-packet one-way delay: 17.599 ms
Loss rate: 0.10%
```

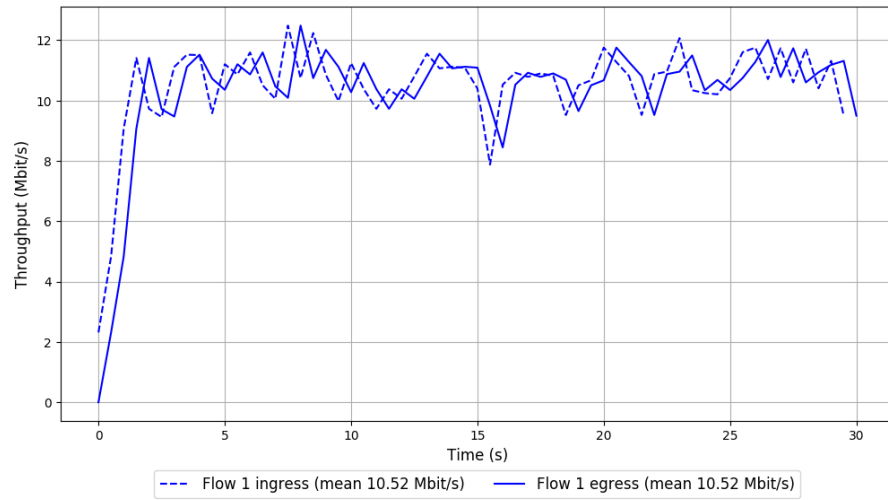Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2019-01-21 06:47:49
End at: 2019-01-21 06:48:19
Local clock offset: 0.675 ms
Remote clock offset: -5.199 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 10.311 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 10.311 ms
Loss rate: 0.00%
```

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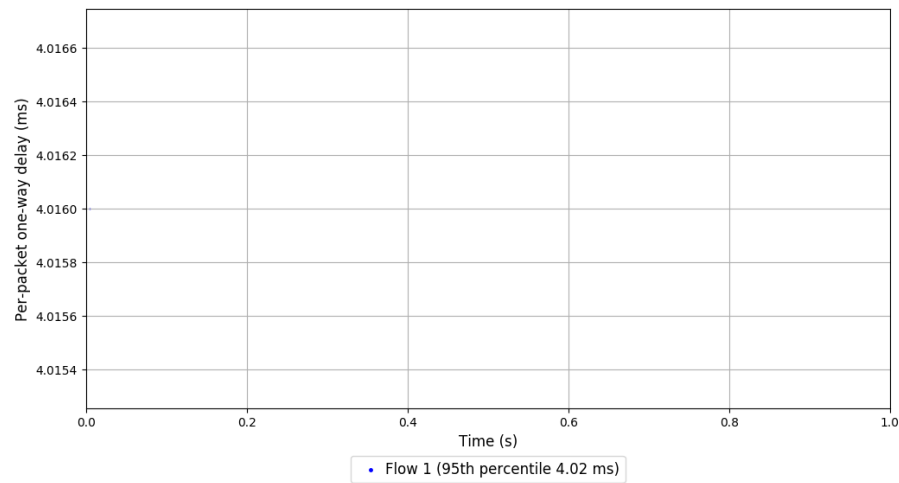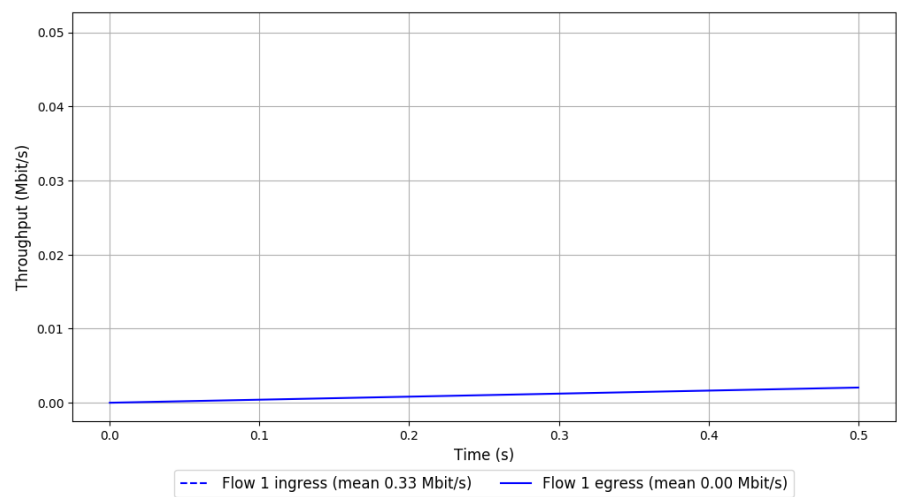
```
Run 1: Statistics of TaoVA-100x

Start at: 2019-01-21 05:05:10
End at: 2019-01-21 05:05:40
Local clock offset: 1.791 ms
Remote clock offset: -7.681 ms
```

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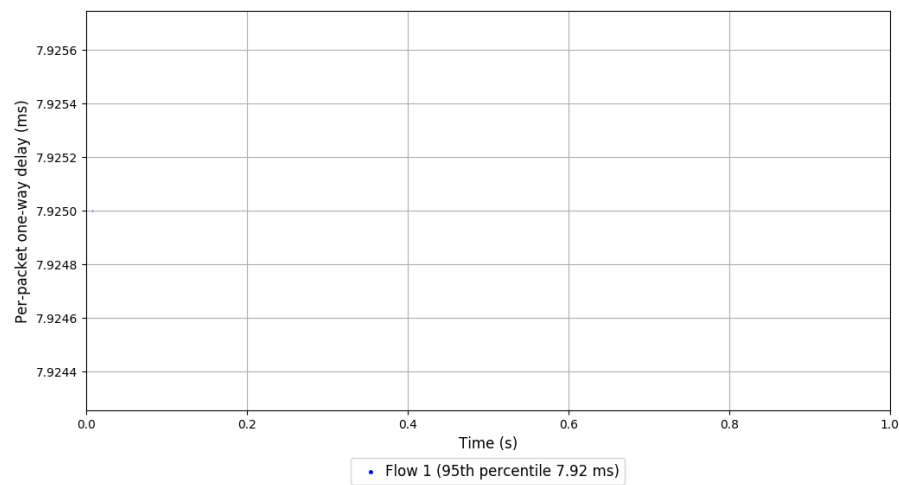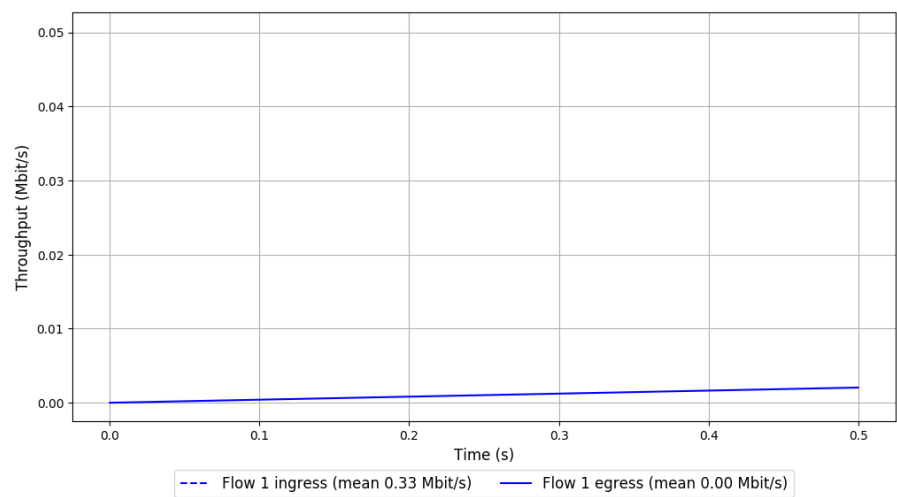
```
Run 2: Statistics of TaoVA-100x

Start at: 2019-01-21 05:31:34
End at: 2019-01-21 05:32:04
Local clock offset: -2.494 ms
Remote clock offset: -6.427 ms
```

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

Flow 1 ingress (mean 0.33 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 7.92 ms)

```
Run 3: Statistics of TaoVA-100x

Start at: 2019-01-21 05:59:22
End at: 2019-01-21 05:59:53
Local clock offset: 0.556 ms
Remote clock offset: -4.613 ms
```
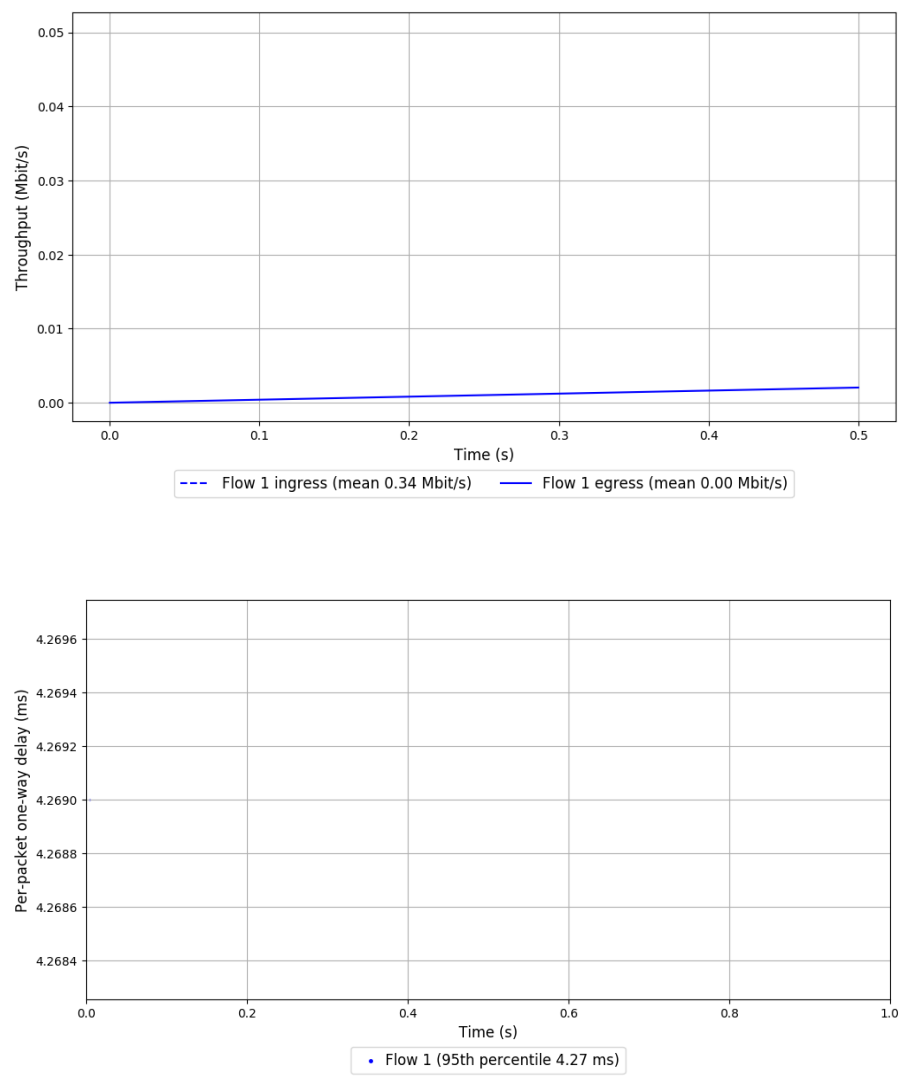
Run 3: Report of TaoVA-100x — Data Link
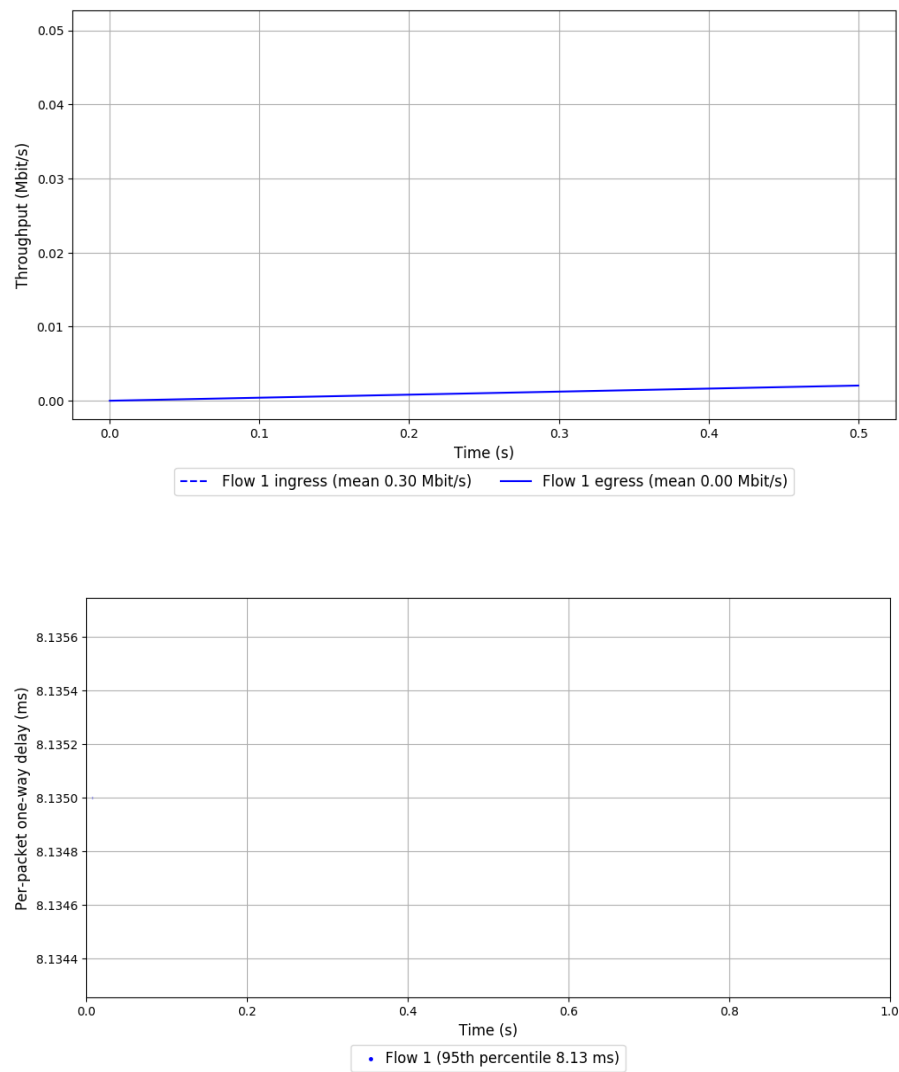
```
Run 4: Statistics of TaoVA-100x

Start at: 2019-01-21 06:26:25
End at: 2019-01-21 06:26:55
Local clock offset: 0.116 ms
Remote clock offset: -2.137 ms
```

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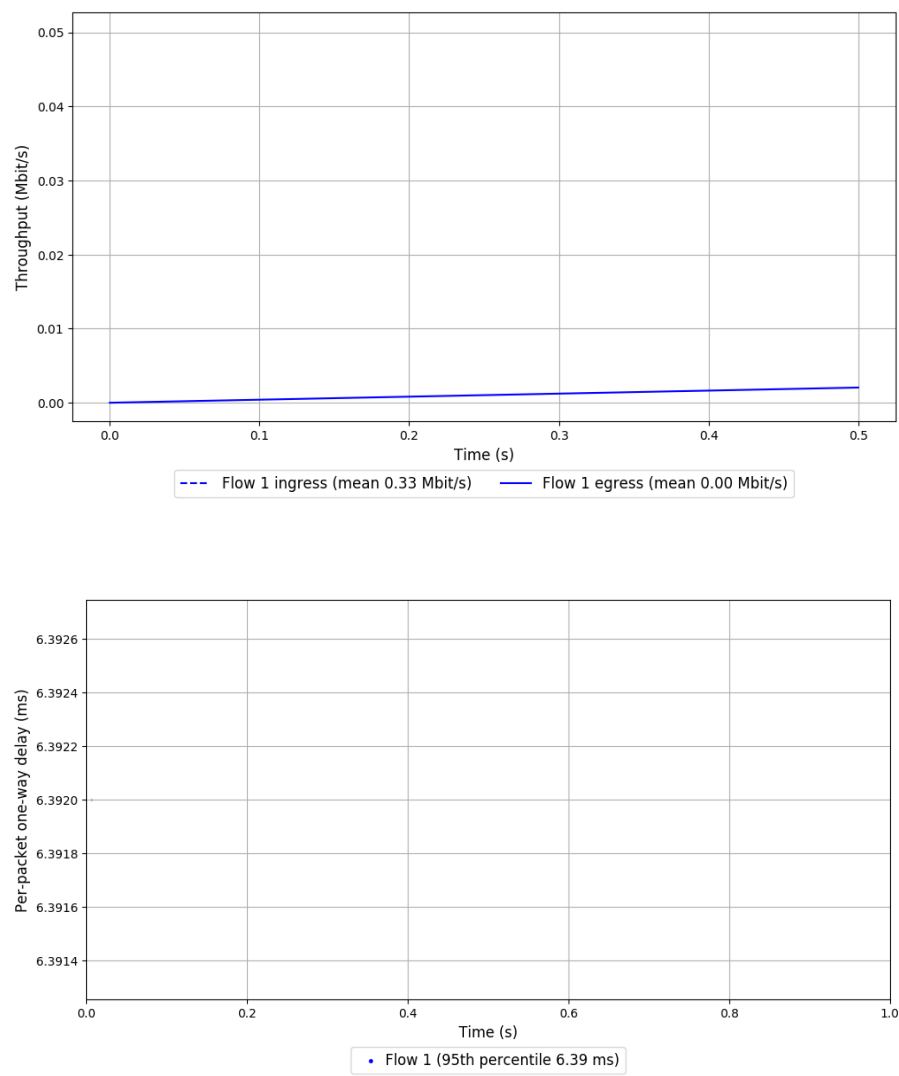
```
Run 5: Statistics of TaoVA-100x

Start at: 2019-01-21 06:52:37
End at: 2019-01-21 06:53:07
Local clock offset: 0.828 ms
Remote clock offset: -3.199 ms
```

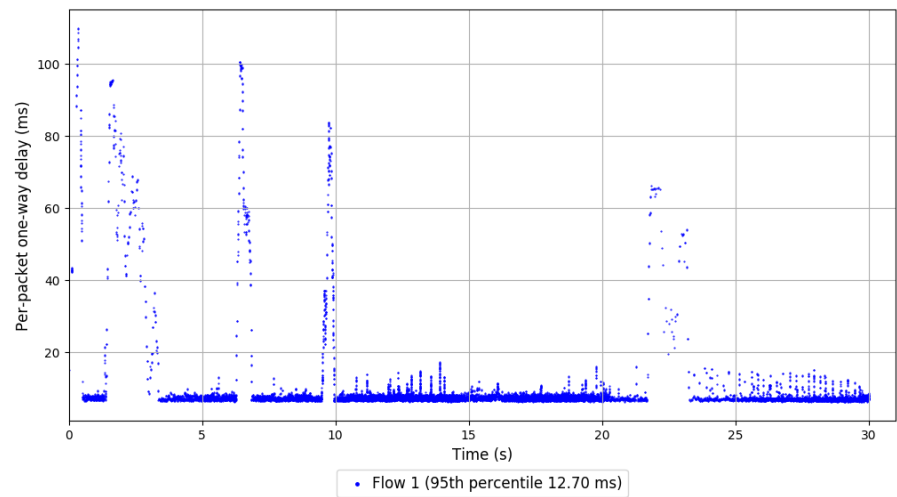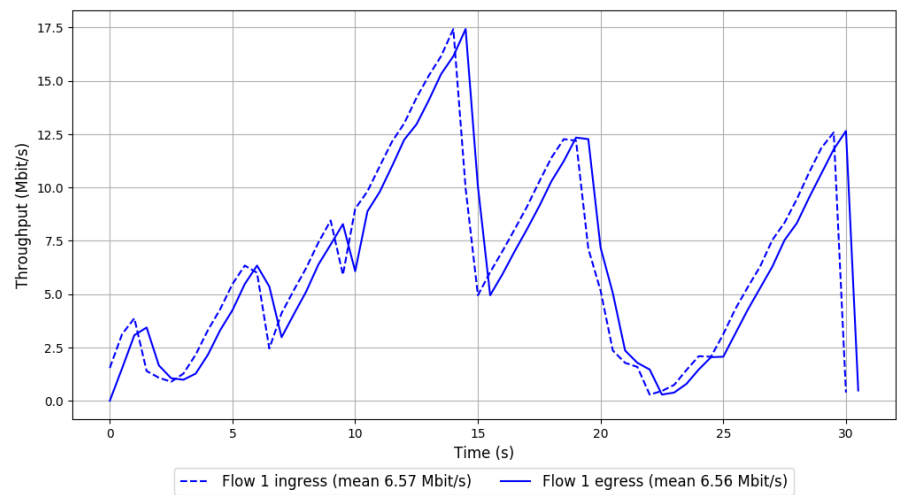# Run 5: Report of TaoVA-100x — Data Link

```
Run 1: Statistics of TCP Vegas

Start at: 2019-01-21 05:12:30
End at: 2019-01-21 05:13:00
Local clock offset: -0.371 ms
Remote clock offset: -5.691 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.56 Mbit/s
95th percentile per-packet one-way delay: 12.702 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 6.56 Mbit/s
95th percentile per-packet one-way delay: 12.702 ms
Loss rate: 0.18%
```

Run 1: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 6.57 Mbit/s)   Flow 1 egress (mean 6.56 Mbit/s)

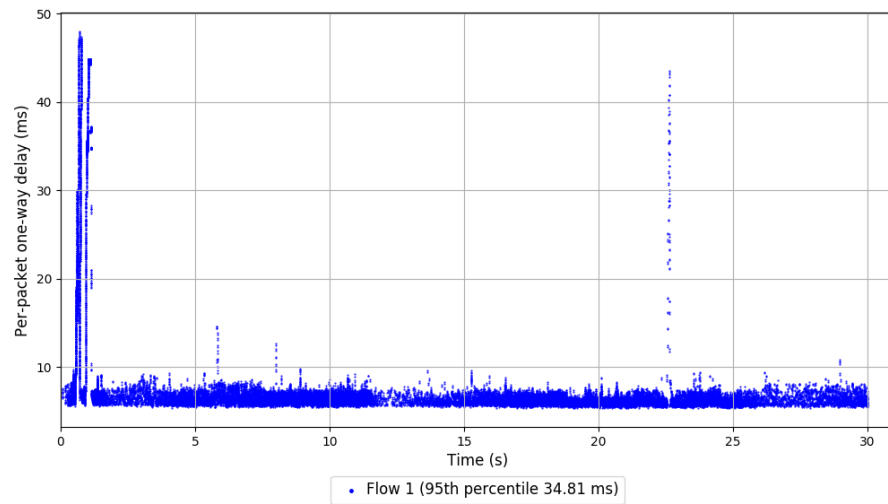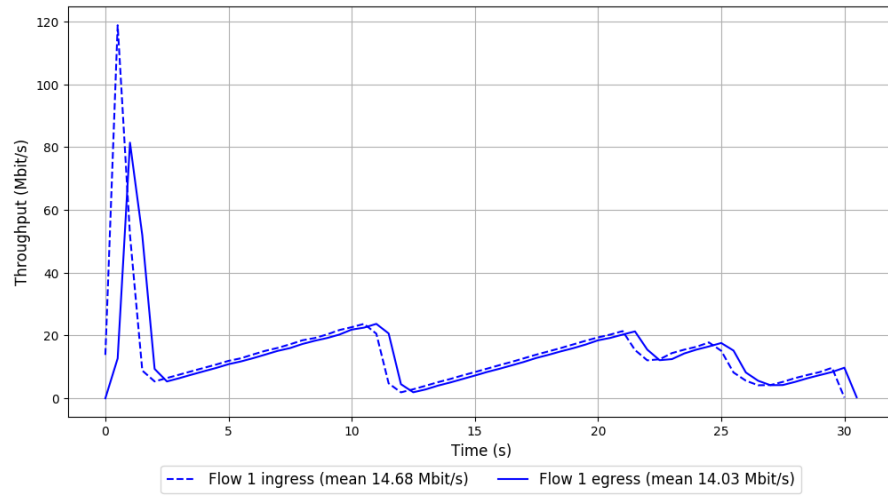Flow 1 (95th percentile 12.70 ms)

```
Run 2: Statistics of TCP Vegas

Start at: 2019-01-21 05:39:08
End at: 2019-01-21 05:39:38
Local clock offset: -2.41 ms
Remote clock offset: -5.091 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.03 Mbit/s
95th percentile per-packet one-way delay: 34.808 ms
Loss rate: 4.40%
-- Flow 1:
Average throughput: 14.03 Mbit/s
95th percentile per-packet one-way delay: 34.808 ms
Loss rate: 4.40%
```
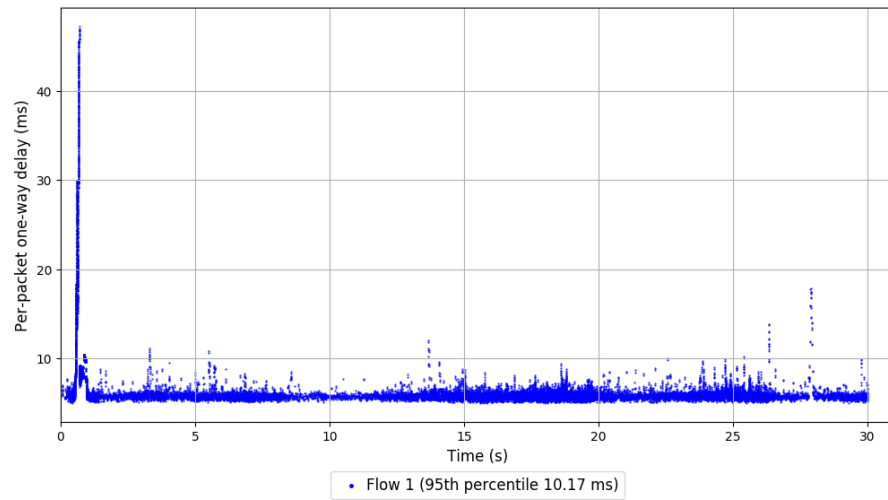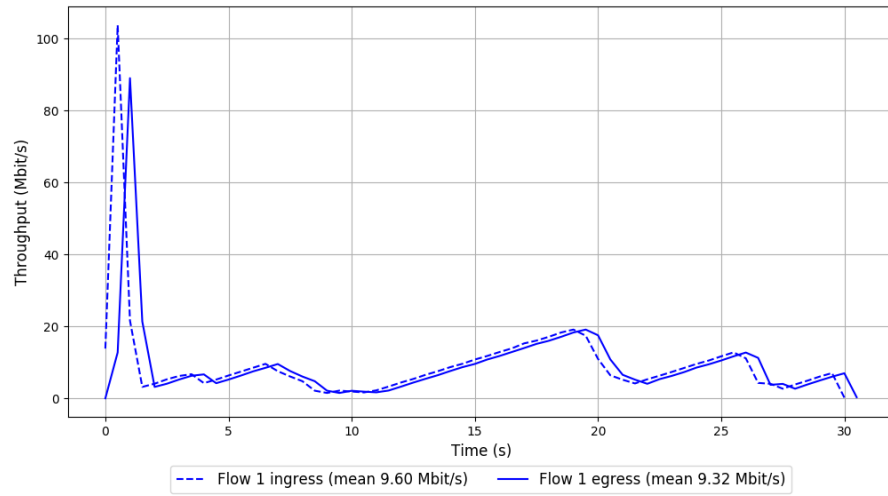
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2019-01-21 06:06:22
End at: 2019-01-21 06:06:52
Local clock offset: -1.612 ms
Remote clock offset: -5.199 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 10.170 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 10.170 ms
Loss rate: 2.92%
```

Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 9.60 Mbit/s)   Flow 1 egress (mean 9.32 Mbit/s)

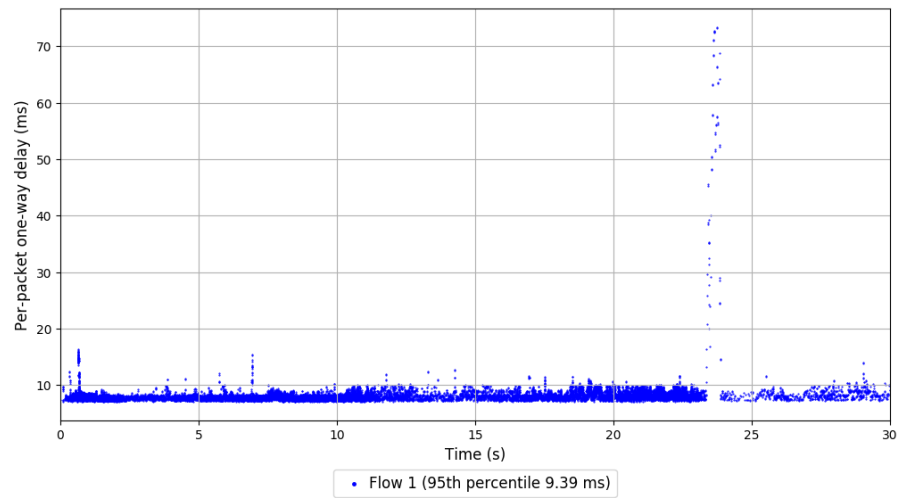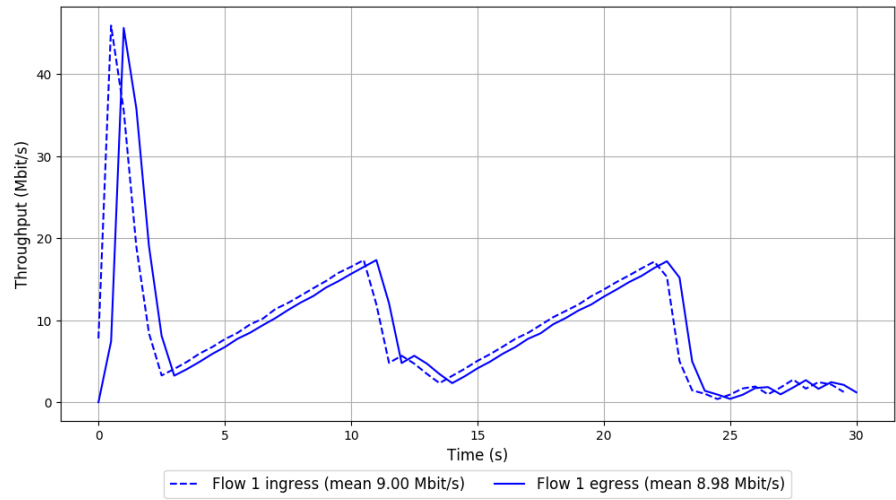Flow 1 (95th percentile 10.17 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2019-01-21 06:33:33
End at: 2019-01-21 06:34:03
Local clock offset: -0.534 ms
Remote clock offset: -1.991 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.98 Mbit/s
95th percentile per-packet one-way delay: 9.394 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 8.98 Mbit/s
95th percentile per-packet one-way delay: 9.394 ms
Loss rate: 0.25%
```

Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 9.00 Mbit/s) — Flow 1 egress (mean 8.98 Mbit/s)

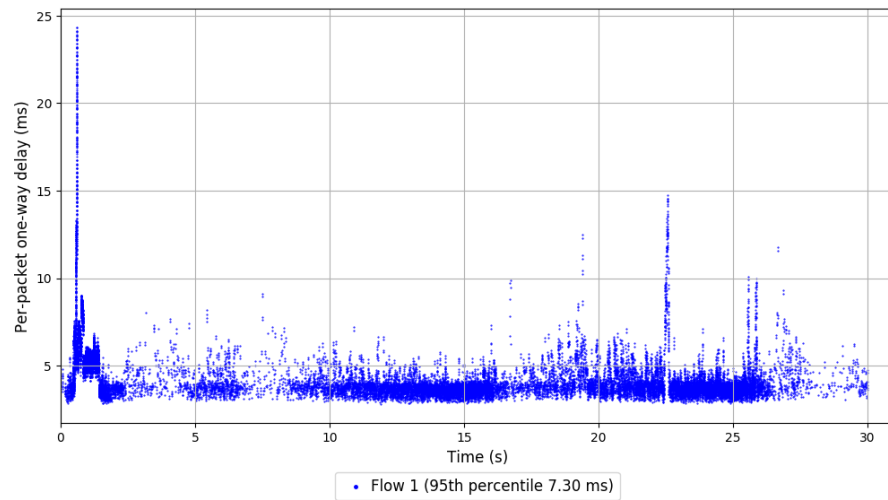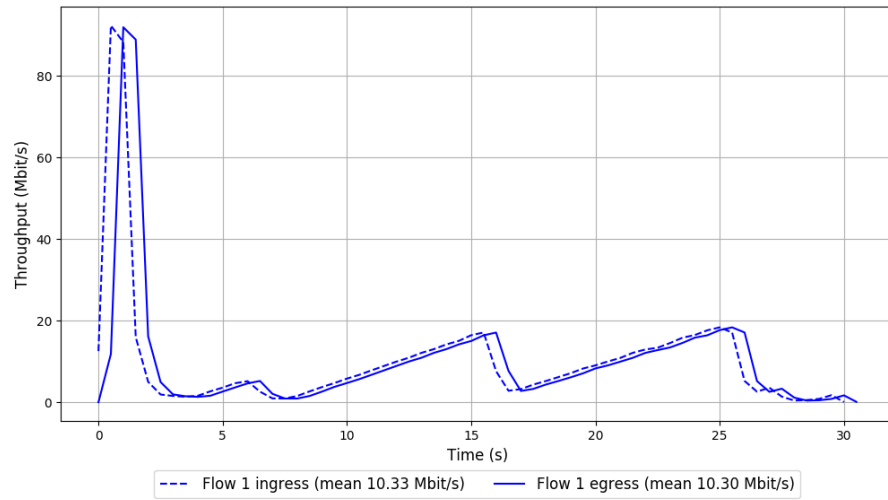Flow 1 (95th percentile 9.39 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2019-01-21 06:59:33
End at: 2019-01-21 07:00:03
Local clock offset: 1.392 ms
Remote clock offset: -7.003 ms


# Below is generated by plot.py at 2019-01-21 07:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.30 Mbit/s
95th percentile per-packet one-way delay: 7.299 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 10.30 Mbit/s
95th percentile per-packet one-way delay: 7.299 ms
Loss rate: 0.29%
```

Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 10.33 Mbit/s) --- Flow 1 egress (mean 10.30 Mbit/s)

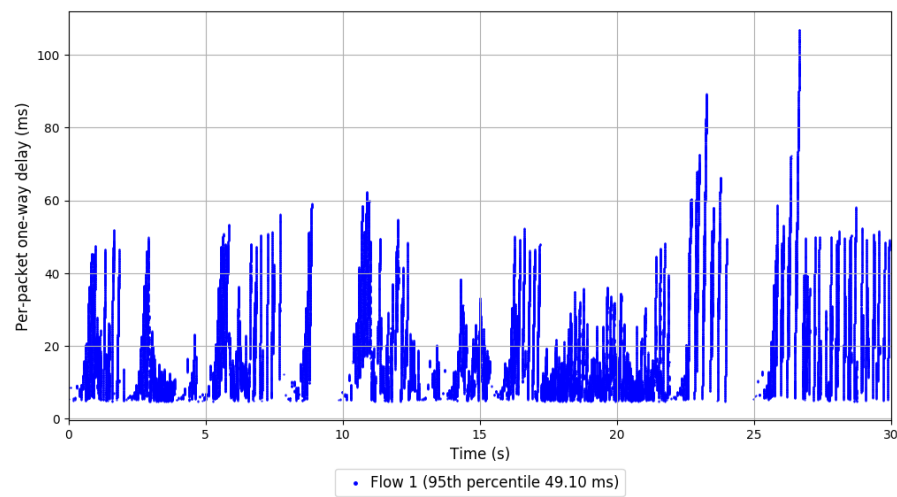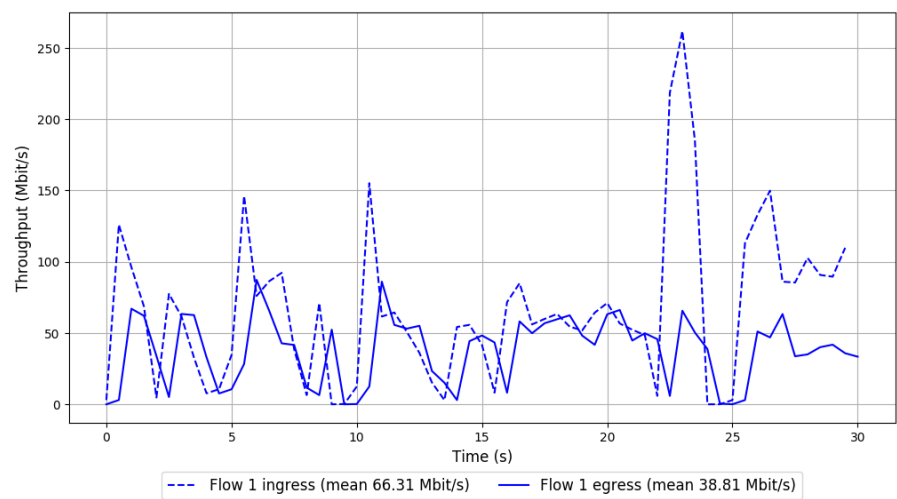
Flow 1 (95th percentile 7.30 ms)

```
Run 1: Statistics of Verus

Start at: 2019-01-21 04:55:59
End at: 2019-01-21 04:56:29
Local clock offset: -1.051 ms
Remote clock offset: -7.644 ms


# Below is generated by plot.py at 2019-01-21 07:13:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 49.101 ms
Loss rate: 41.42%
-- Flow 1:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 49.101 ms
Loss rate: 41.42%
```
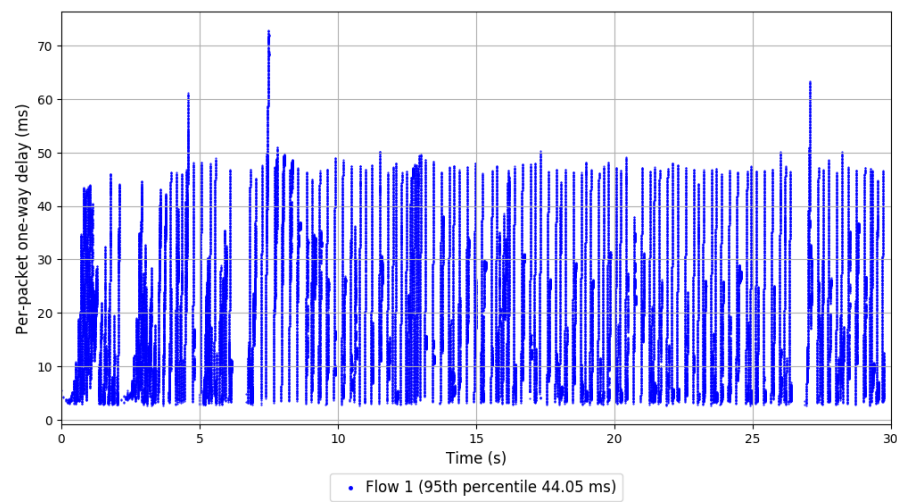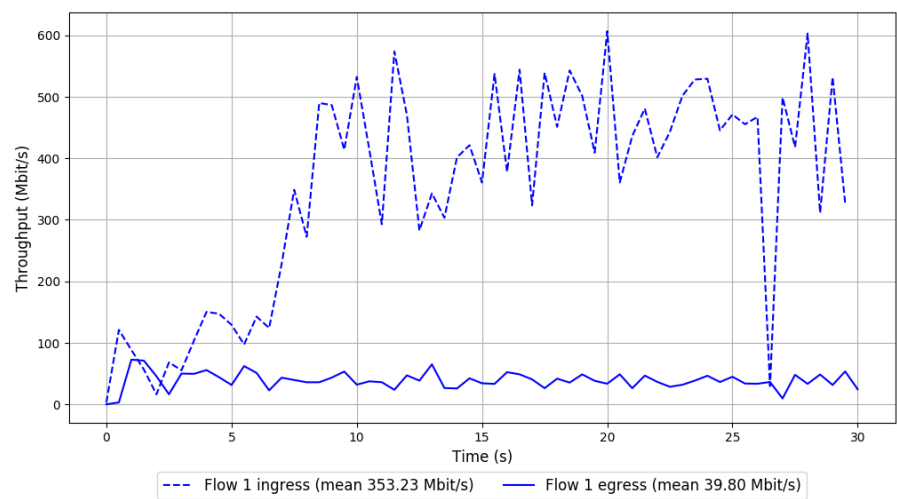
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2019-01-21 05:22:38
End at: 2019-01-21 05:23:08
Local clock offset: 0.225 ms
Remote clock offset: -7.266 ms


# Below is generated by plot.py at 2019-01-21 07:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.80 Mbit/s
95th percentile per-packet one-way delay: 44.051 ms
Loss rate: 88.73%
-- Flow 1:
Average throughput: 39.80 Mbit/s
95th percentile per-packet one-way delay: 44.051 ms
Loss rate: 88.73%
```

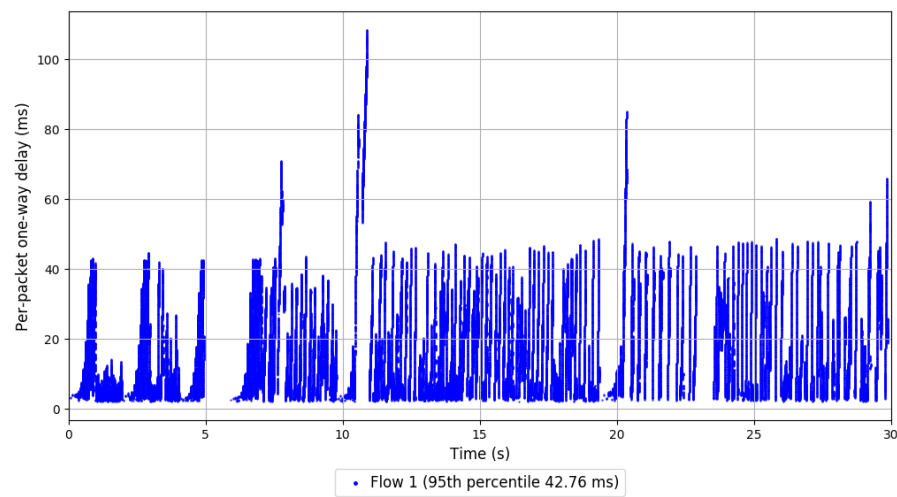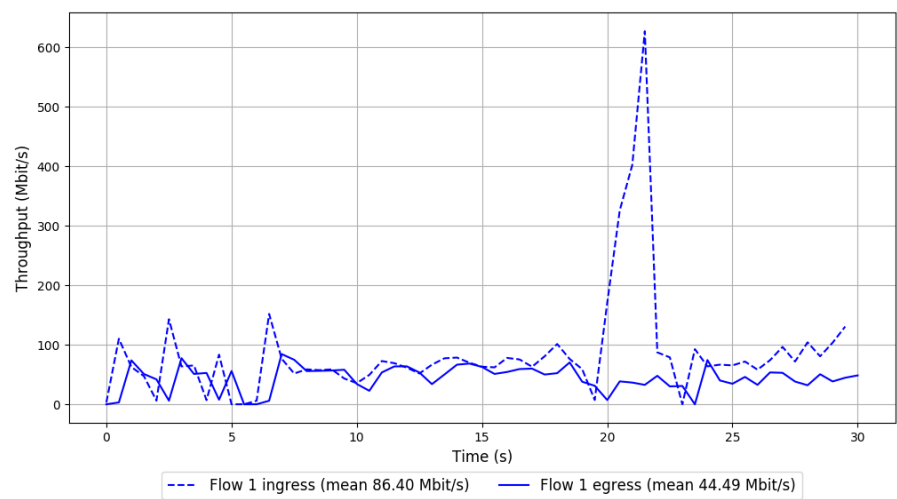Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2019-01-21 05:50:00
End at: 2019-01-21 05:50:30
Local clock offset: -0.523 ms
Remote clock offset: -6.358 ms


# Below is generated by plot.py at 2019-01-21 07:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.49 Mbit/s
95th percentile per-packet one-way delay: 42.759 ms
Loss rate: 48.47%
-- Flow 1:
Average throughput: 44.49 Mbit/s
95th percentile per-packet one-way delay: 42.759 ms
Loss rate: 48.47%
```

Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2019-01-21 06:16:52
End at: 2019-01-21 06:17:22
Local clock offset: 0.626 ms
Remote clock offset: 0.549 ms


# Below is generated by plot.py at 2019-01-21 07:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.67 Mbit/s
95th percentile per-packet one-way delay: 64.701 ms
Loss rate: 7.92%
-- Flow 1:
Average throughput: 68.67 Mbit/s
95th percentile per-packet one-way delay: 64.701 ms
Loss rate: 7.92%
```
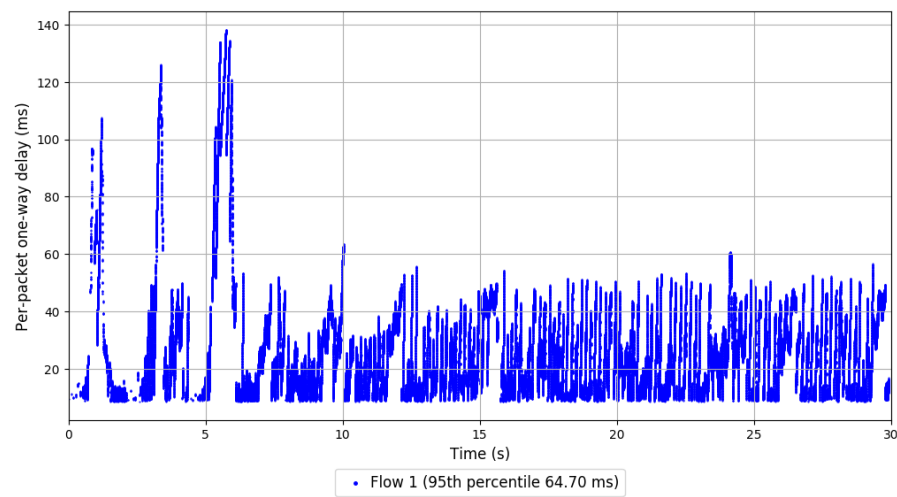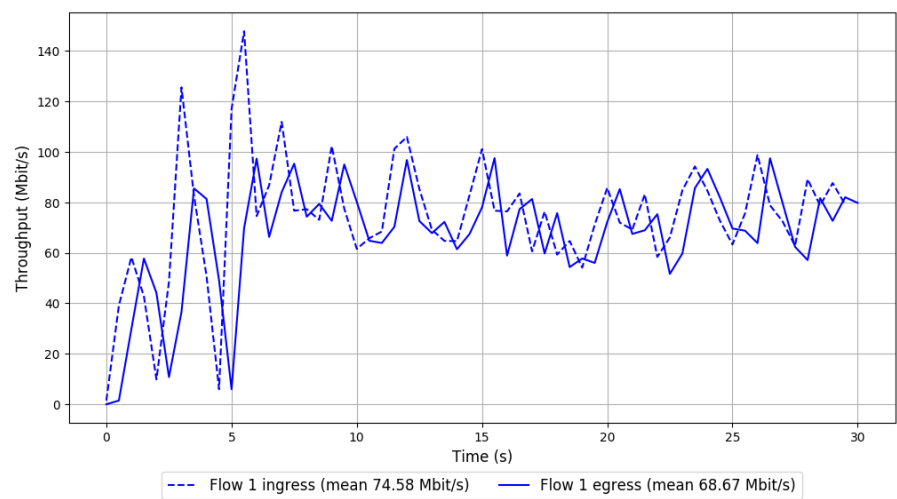
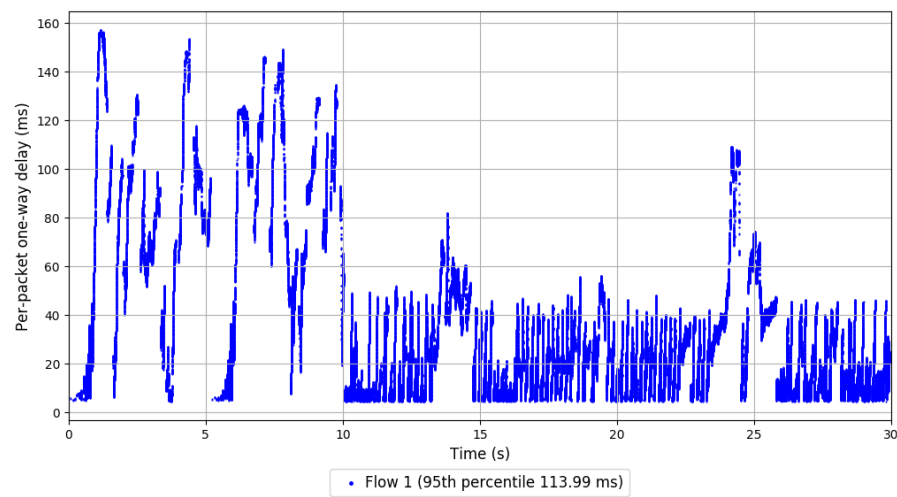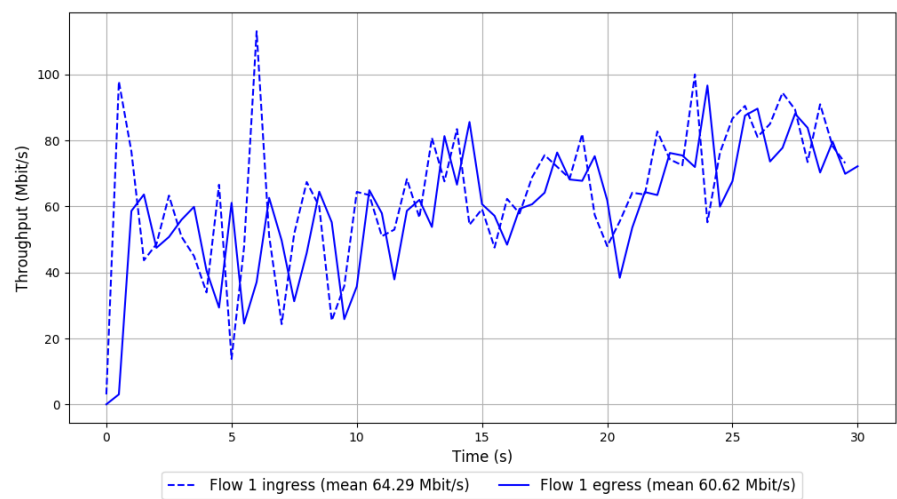Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2019-01-21 06:44:07
End at: 2019-01-21 06:44:37
Local clock offset: -0.301 ms
Remote clock offset: -4.521 ms


# Below is generated by plot.py at 2019-01-21 07:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.62 Mbit/s
95th percentile per-packet one-way delay: 113.988 ms
Loss rate: 5.66%
-- Flow 1:
Average throughput: 60.62 Mbit/s
95th percentile per-packet one-way delay: 113.988 ms
Loss rate: 5.66%
```

Run 5: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2019-01-21 05:02:19
End at: 2019-01-21 05:02:49
Local clock offset: -0.451 ms
Remote clock offset: -7.25 ms


# Below is generated by plot.py at 2019-01-21 07:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.84 Mbit/s
95th percentile per-packet one-way delay: 8.625 ms
Loss rate: 4.74%
-- Flow 1:
Average throughput: 60.84 Mbit/s
95th percentile per-packet one-way delay: 8.625 ms
Loss rate: 4.74%
```
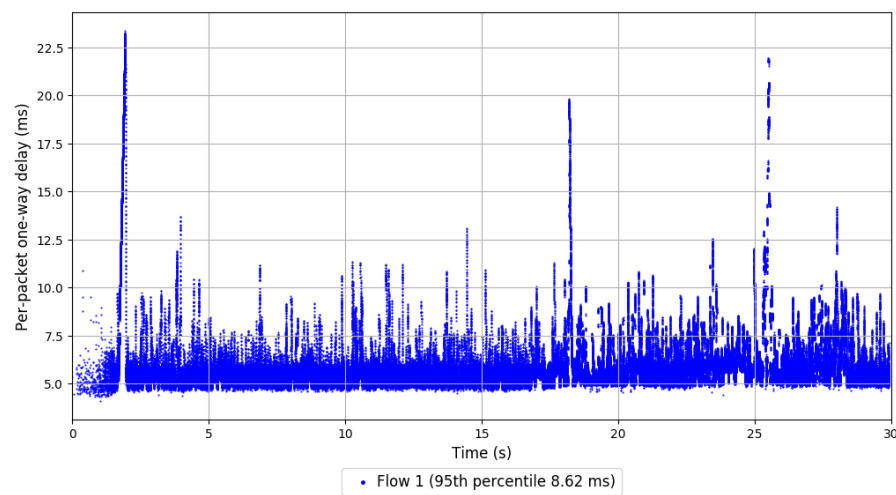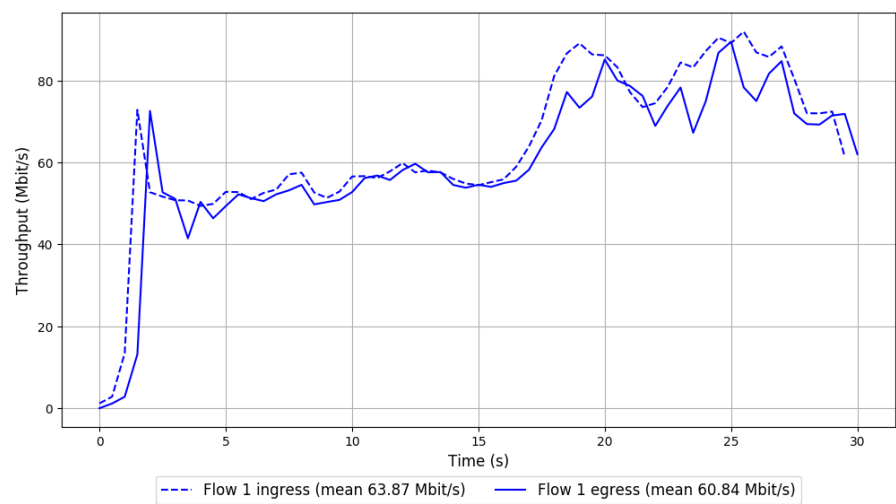
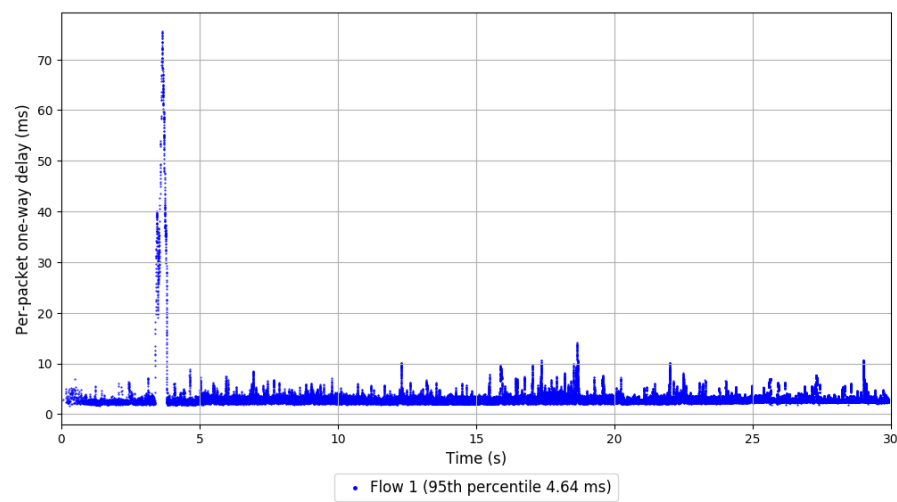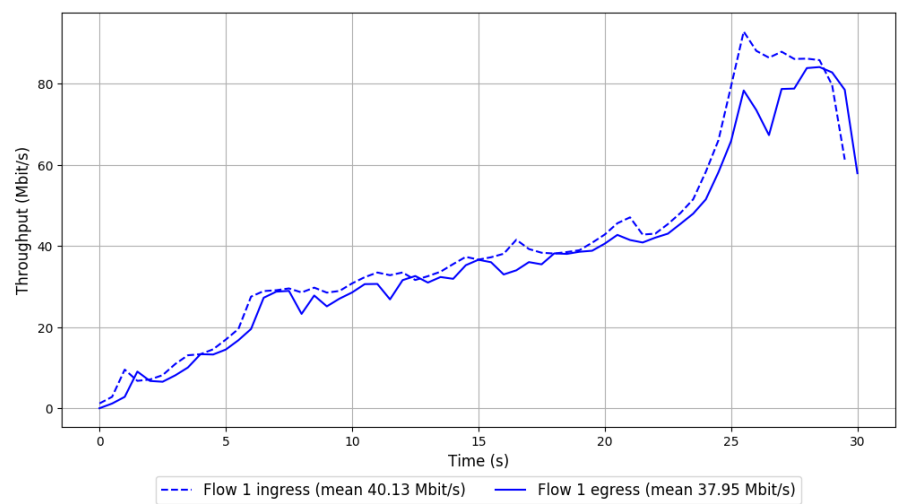Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2019-01-21 05:29:01
End at: 2019-01-21 05:29:31
Local clock offset: 0.415 ms
Remote clock offset: -7.096 ms


# Below is generated by plot.py at 2019-01-21 07:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 4.636 ms
Loss rate: 5.44%
-- Flow 1:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 4.636 ms
Loss rate: 5.44%
```

Run 2: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 40.13 Mbit/s)   Flow 1 egress (mean 37.95 Mbit/s)

Flow 1 (95th percentile 4.64 ms)

```
Run 3: Statistics of PCC-Vivace

Start at: 2019-01-21 05:56:30
End at: 2019-01-21 05:57:01
Local clock offset: 0.016 ms
Remote clock offset: -5.197 ms


# Below is generated by plot.py at 2019-01-21 07:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.60 Mbit/s
95th percentile per-packet one-way delay: 7.097 ms
Loss rate: 3.74%
-- Flow 1:
Average throughput: 54.60 Mbit/s
95th percentile per-packet one-way delay: 7.097 ms
Loss rate: 3.74%
```
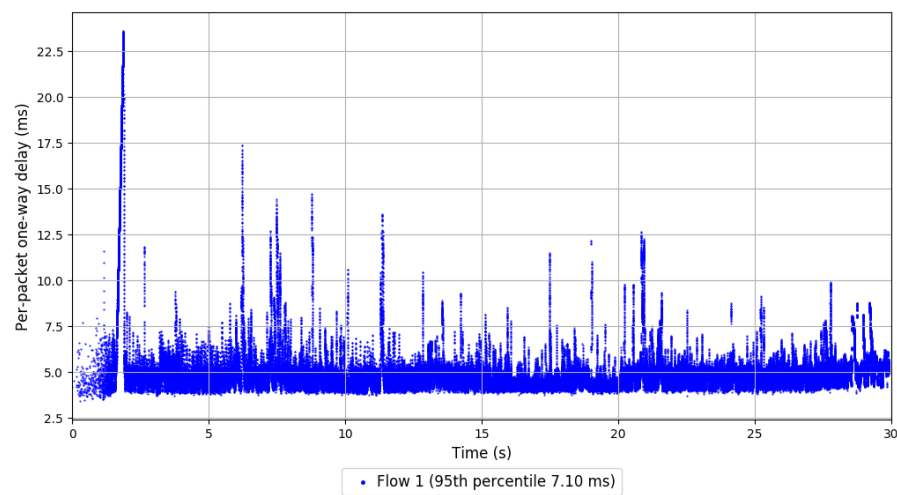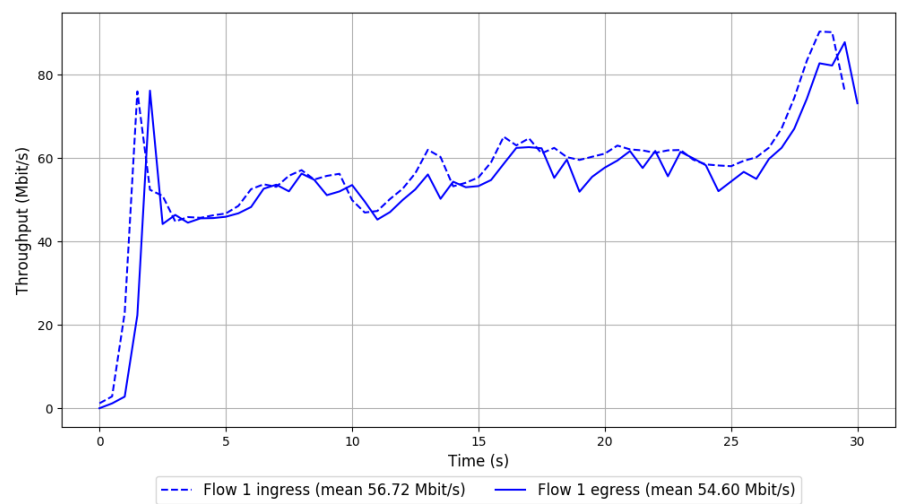
Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 56.72 Mbit/s)   Flow 1 egress (mean 54.60 Mbit/s)

• Flow 1 (95th percentile 7.10 ms)

```
Run 4: Statistics of PCC-Vivace

Start at: 2019-01-21 06:23:23
End at: 2019-01-21 06:23:53
Local clock offset: 0.699 ms
Remote clock offset: -1.539 ms


# Below is generated by plot.py at 2019-01-21 07:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.15 Mbit/s
95th percentile per-packet one-way delay: 9.530 ms
Loss rate: 4.14%
-- Flow 1:
Average throughput: 72.15 Mbit/s
95th percentile per-packet one-way delay: 9.530 ms
Loss rate: 4.14%
```
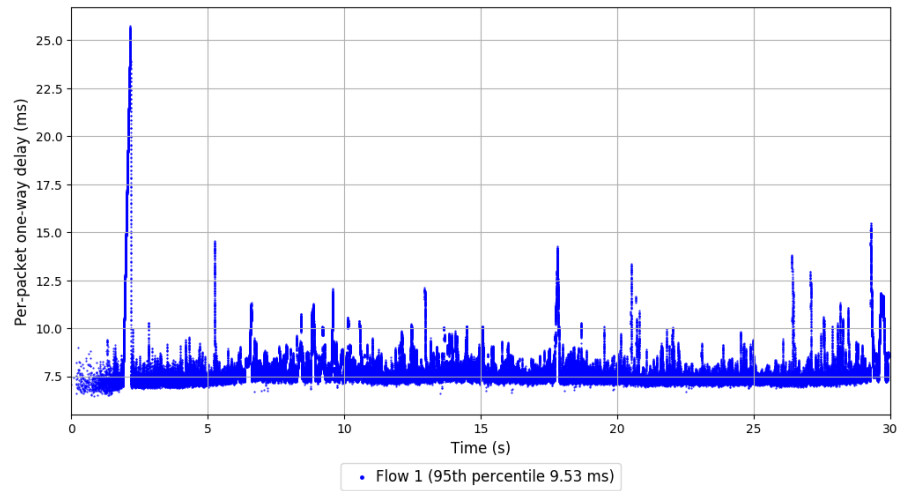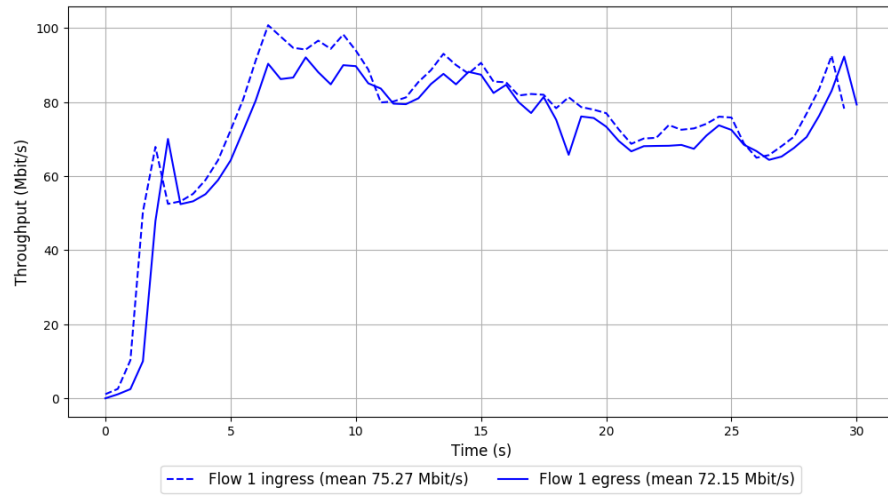
Run 4: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 75.27 Mbit/s) --- Flow 1 egress (mean 72.15 Mbit/s)

Flow 1 (95th percentile 9.53 ms)

```
Run 5: Statistics of PCC-Vivace

Start at: 2019-01-21 06:50:08
End at: 2019-01-21 06:50:38
Local clock offset: 1.06 ms
Remote clock offset: -2.48 ms


# Below is generated by plot.py at 2019-01-21 07:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.75 Mbit/s
95th percentile per-packet one-way delay: 31.121 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 79.75 Mbit/s
95th percentile per-packet one-way delay: 31.121 ms
Loss rate: 1.27%
```
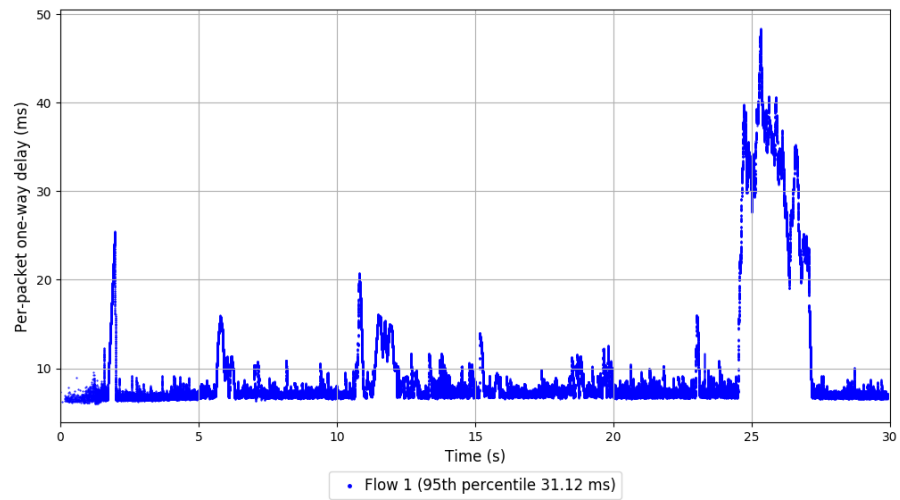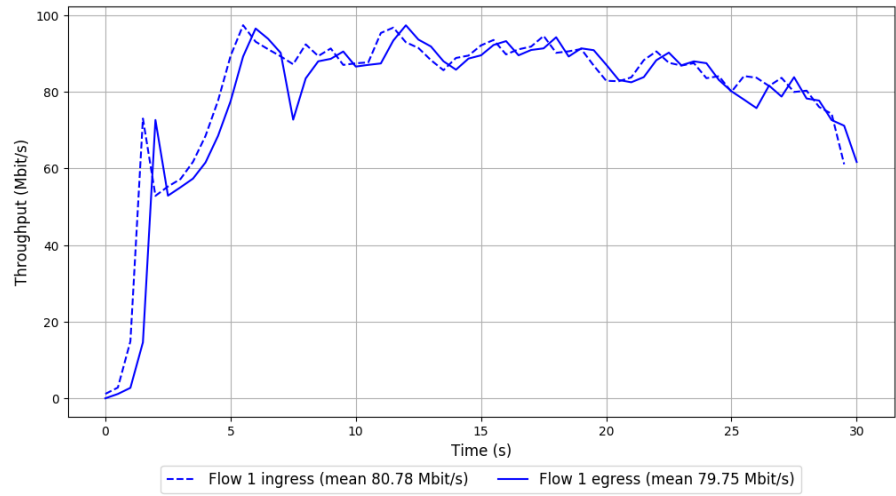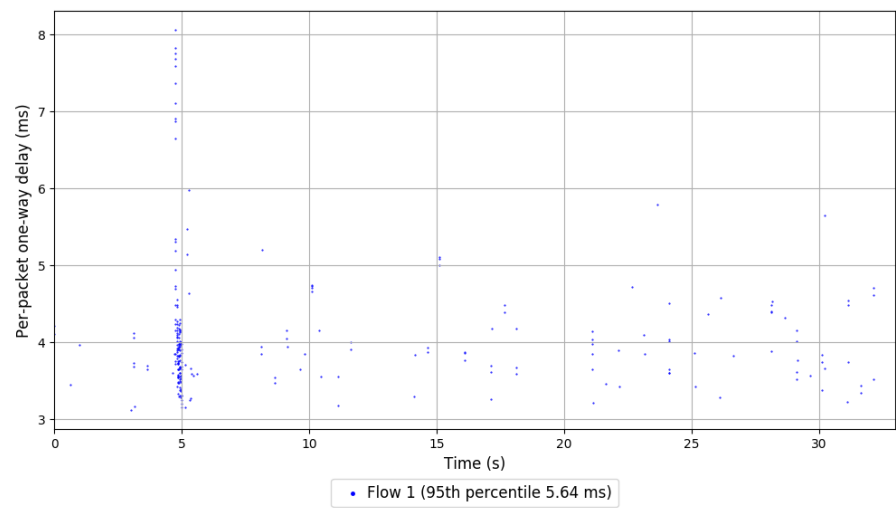
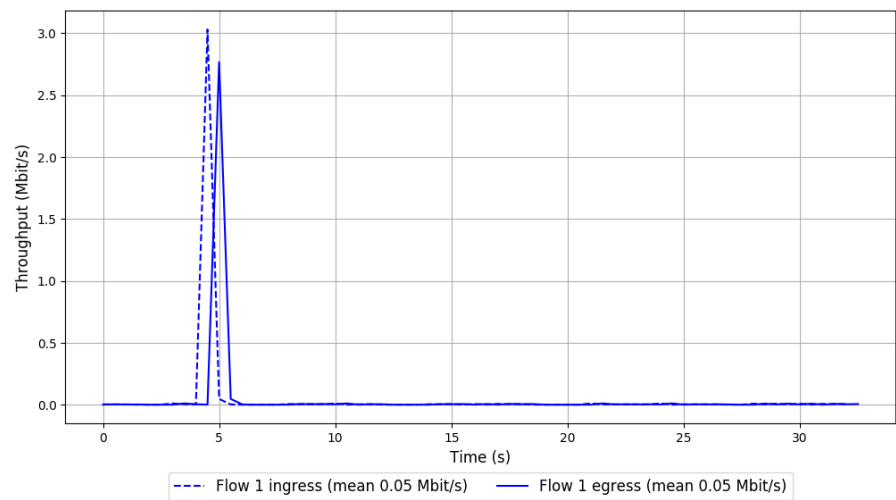Run 5: Report of PCC-Vivace — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2019-01-21 05:15:16
End at: 2019-01-21 05:15:46
Local clock offset: 1.409 ms
Remote clock offset: -6.642 ms


# Below is generated by plot.py at 2019-01-21 07:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 5.643 ms
Loss rate: 8.17%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 5.643 ms
Loss rate: 8.17%
```
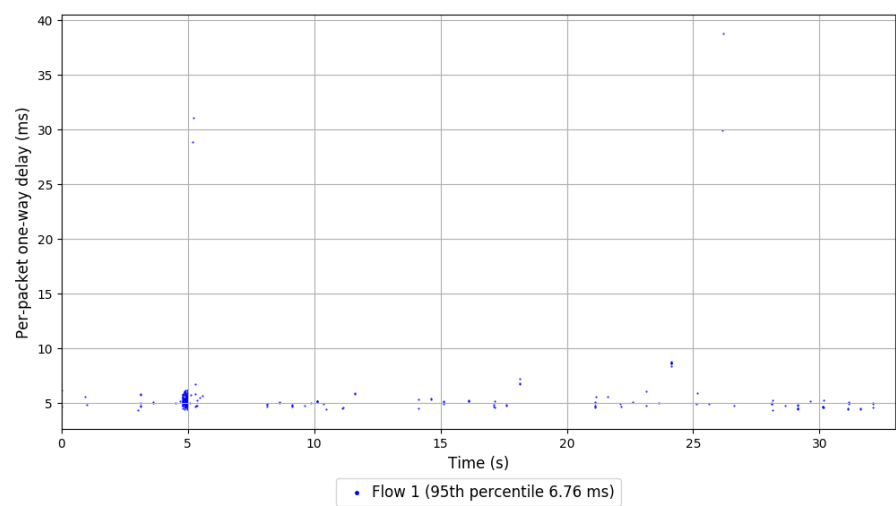
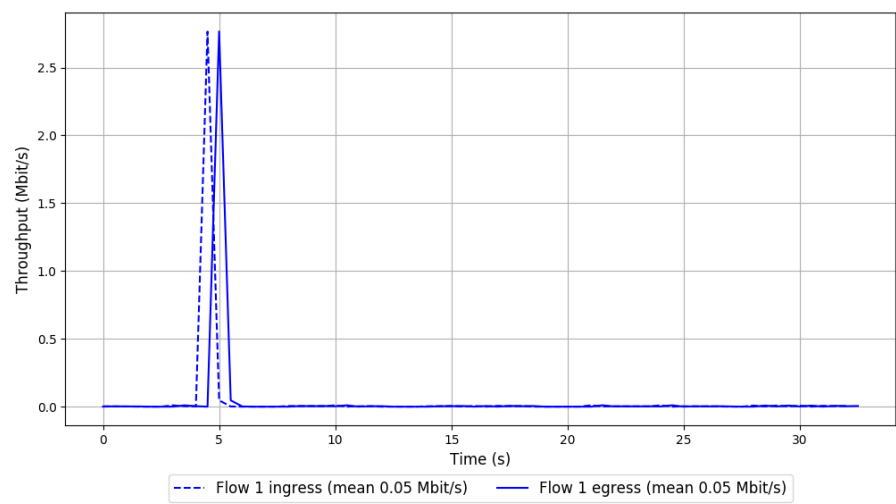Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2019-01-21 05:41:45
End at: 2019-01-21 05:42:15
Local clock offset: -1.033 ms
Remote clock offset: -5.114 ms


# Below is generated by plot.py at 2019-01-21 07:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 6.759 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 6.759 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2019-01-21 06:09:03
End at: 2019-01-21 06:09:33
Local clock offset: -1.25 ms
Remote clock offset: -0.37 ms


# Below is generated by plot.py at 2019-01-21 07:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 11.769 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 11.769 ms
Loss rate: 0.00%
```
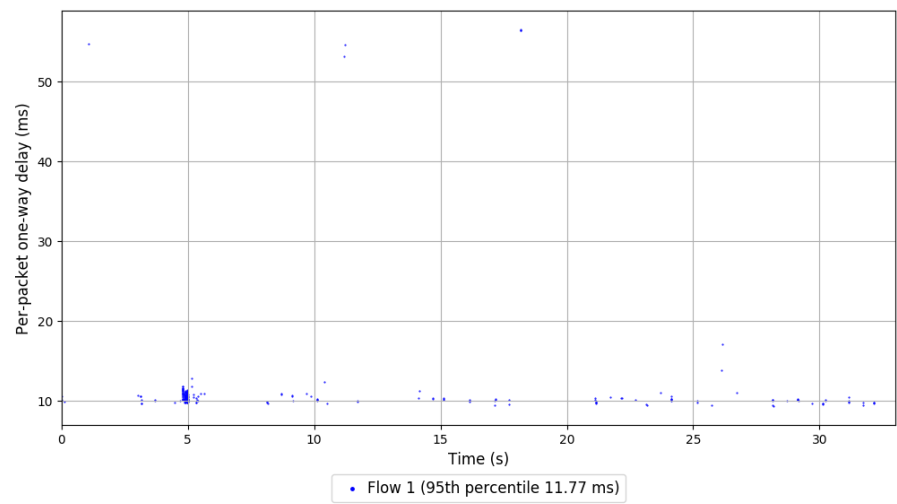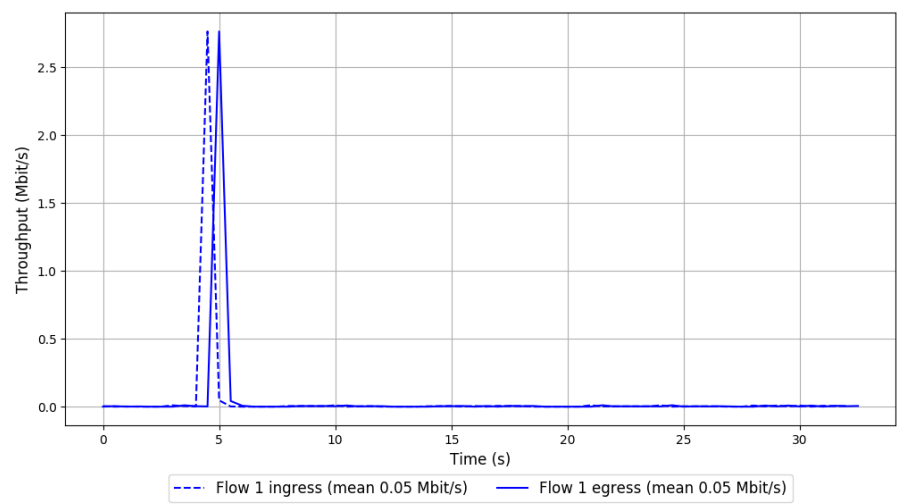
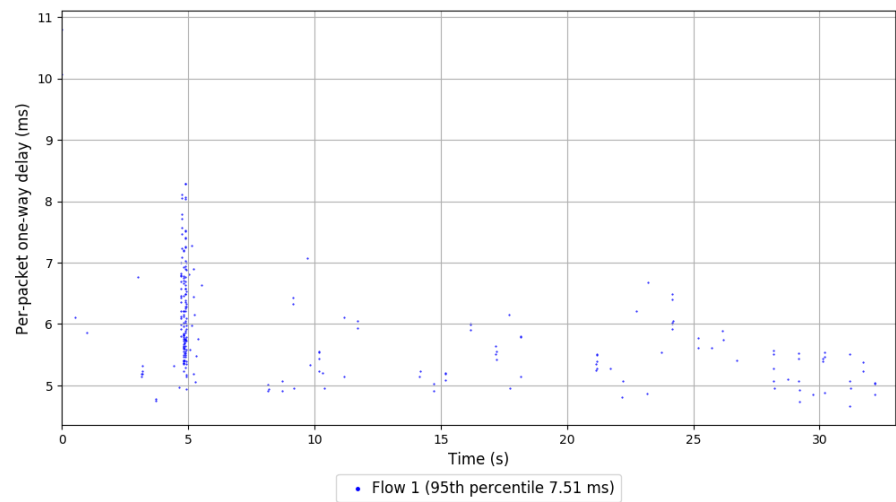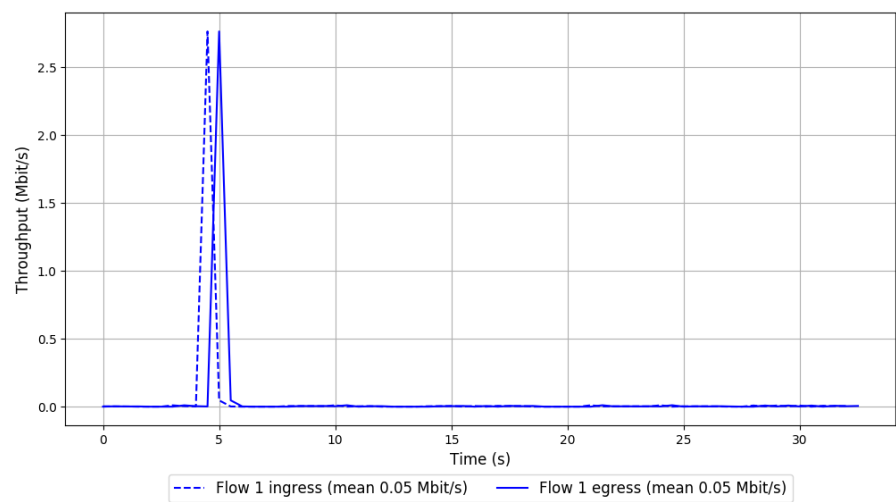Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2019-01-21 06:36:15
End at: 2019-01-21 06:36:45
Local clock offset: -0.171 ms
Remote clock offset: -4.546 ms


# Below is generated by plot.py at 2019-01-21 07:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 7.509 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 7.509 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2019-01-21 07:02:02
End at: 2019-01-21 07:02:32
Local clock offset: -0.75 ms
Remote clock offset: -7.352 ms


# Below is generated by plot.py at 2019-01-21 07:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 6.798 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 6.798 ms
Loss rate: 0.80%
```

Run 5: Report of WebRTC media — Data Link