Pantheon Report

Generated at 2019-01-18 21:02:51 (UTC).

Data path: AWS Brazil 2 on ens5 (*local*) →Colombia on p4p1 (*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 gps.ntp.br and have been applied to correct the timestamps in logs.
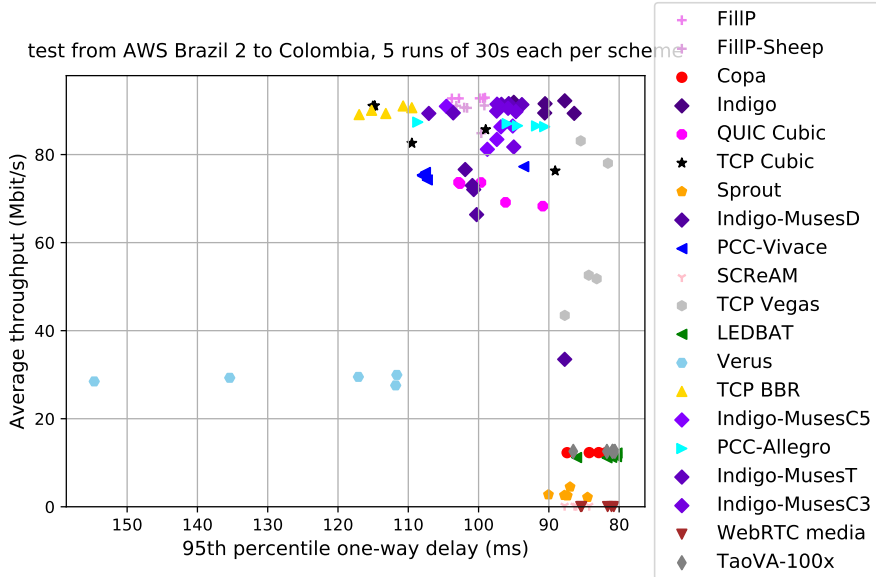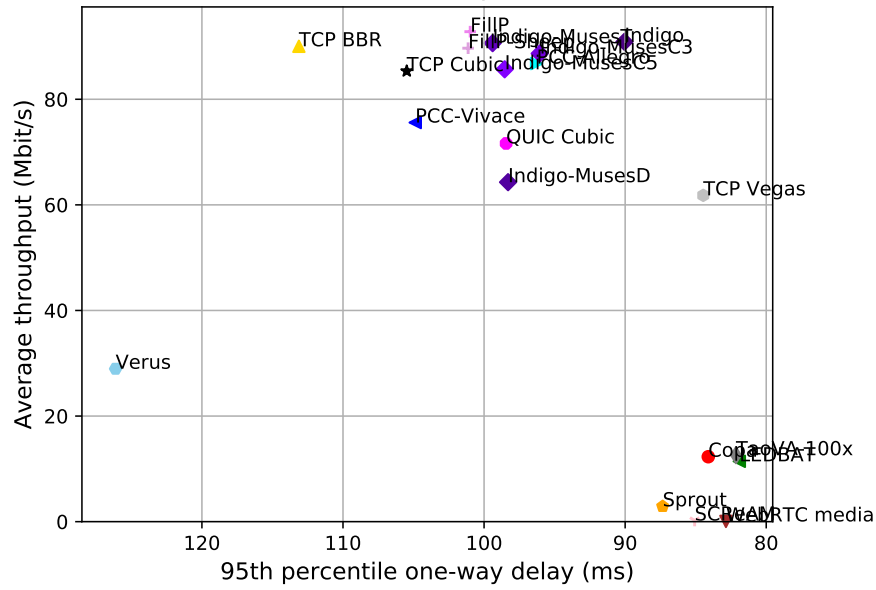
```
System info:
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefe166e1afe2170
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 Brazil 2 to Colombia, 5 runs of 30s each per scheme
(mean of all runs by scheme)

test from AWS Brazil 2 to Colombia, 5 runs of 30s each per scheme

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scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	90.04	113.13	3.25
Copa	4	12.30	84.11	74.47
TCP Cubic	5	85.33	105.48	0.58
FillP	5	92.80	100.98	1.03
FillP-Sheep	5	89.67	101.13	1.13
Indigo	5	90.89	90.05	0.86
Indigo-MusesC3	5	88.66	96.06	0.15
Indigo-MusesC5	5	85.68	98.54	0.26
Indigo-MusesD	5	64.29	98.30	0.00
Indigo-MusesT	5	90.63	99.39	1.88
LEDBAT	5	11.43	81.91	0.00
PCC-Allegro	5	86.75	96.27	1.49
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	71.64	98.44	0.35
SCReAM	5	0.22	85.07	0.00
Sprout	5	2.91	87.34	0.00
TaoVA-100x	5	12.59	82.15	31.09
TCP Vegas	5	61.80	84.46	0.86
Verus	5	28.96	126.12	33.04
PCC-Vivace	5	75.59	104.88	0.14
WebRTC media	5	0.05	82.86	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2019-01-18 18:50:50
End at: 2019-01-18 18:51:20
Local clock offset: -7.066 ms
Remote clock offset: 3.957 ms


# Below is generated by plot.py at 2019-01-18 20:54:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 113.195 ms
Loss rate: 3.38%
-- Flow 1:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 113.195 ms
Loss rate: 3.38%
```
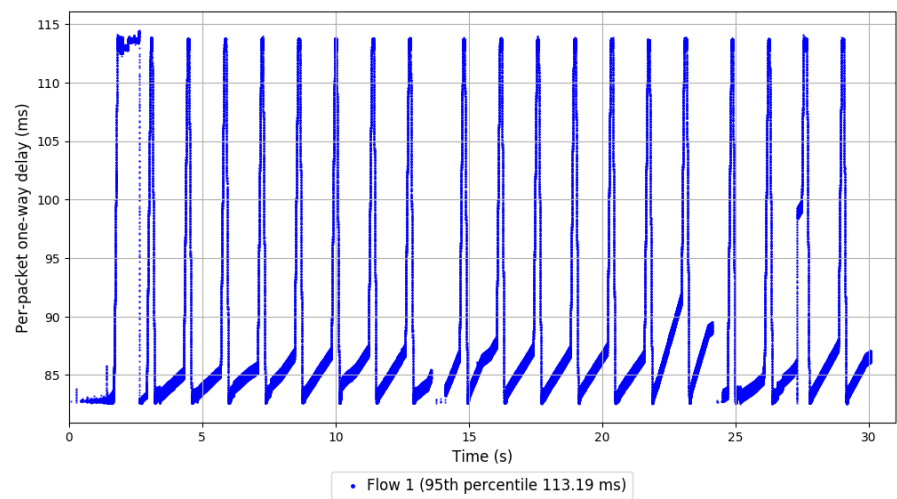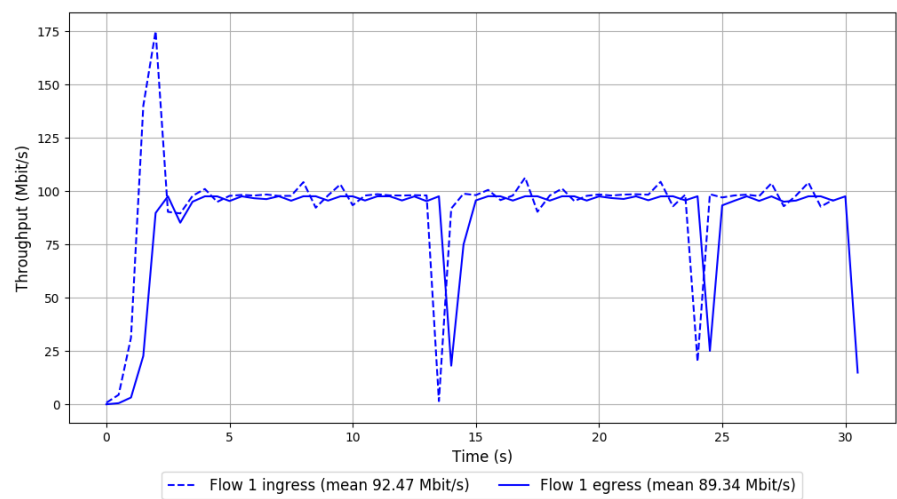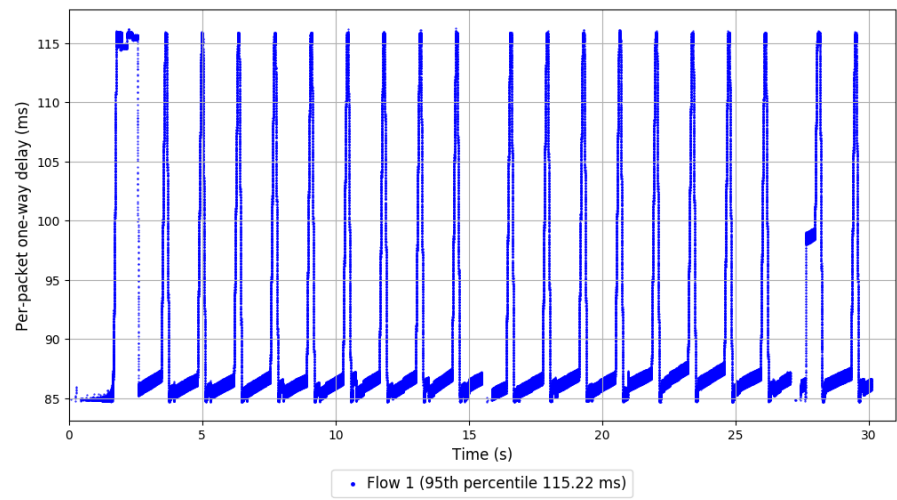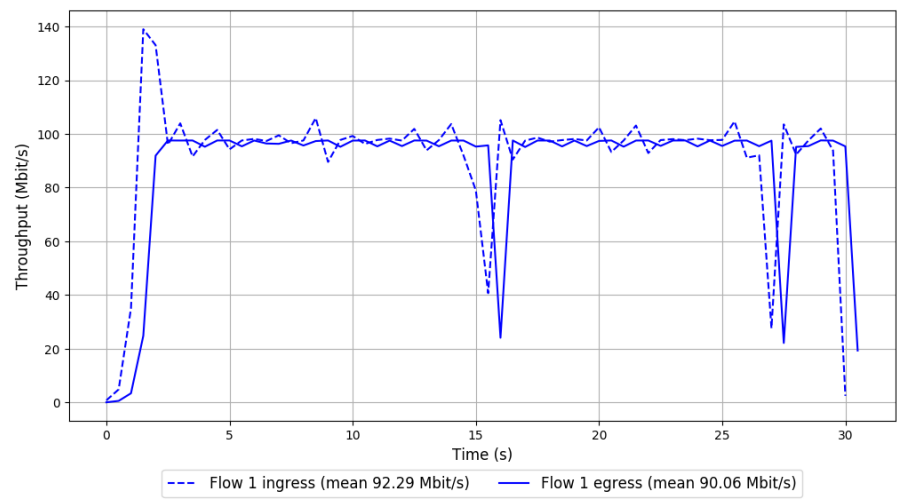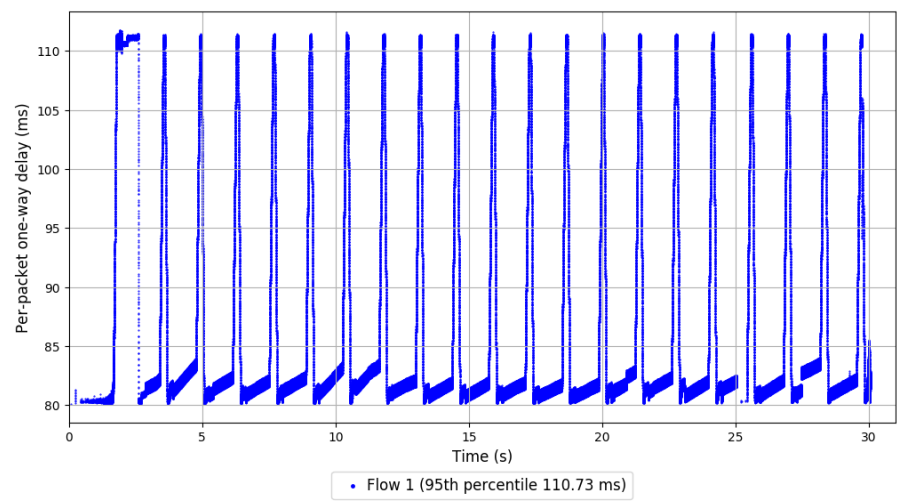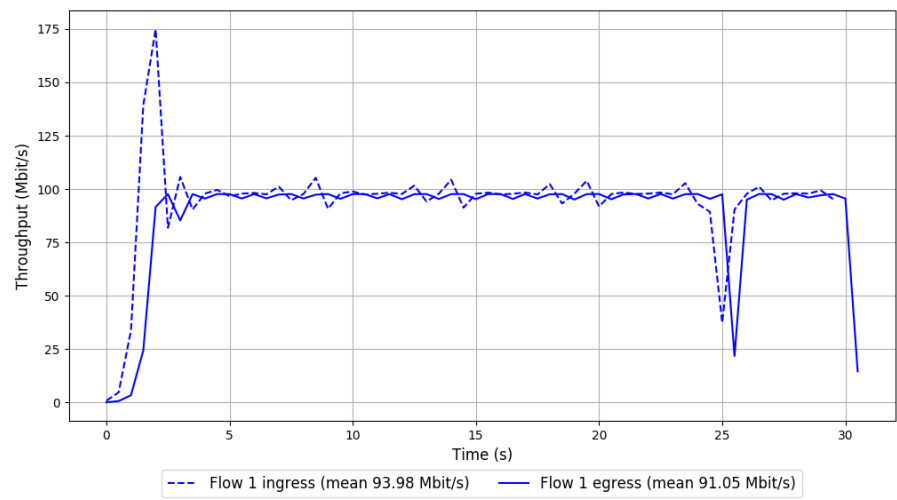
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2019-01-18 19:15:31
End at: 2019-01-18 19:16:01
Local clock offset: -7.455 ms
Remote clock offset: 9.872 ms


# Below is generated by plot.py at 2019-01-18 20:54:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.06 Mbit/s
95th percentile per-packet one-way delay: 115.220 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 90.06 Mbit/s
95th percentile per-packet one-way delay: 115.220 ms
Loss rate: 2.41%
```
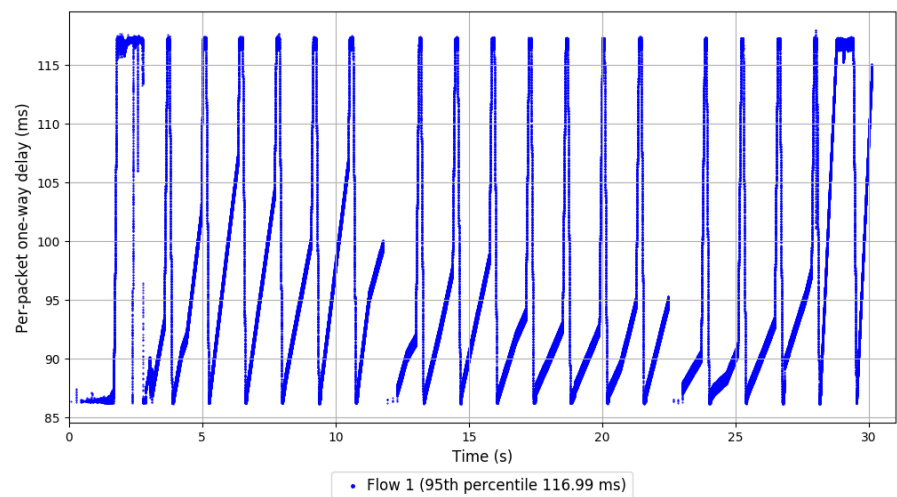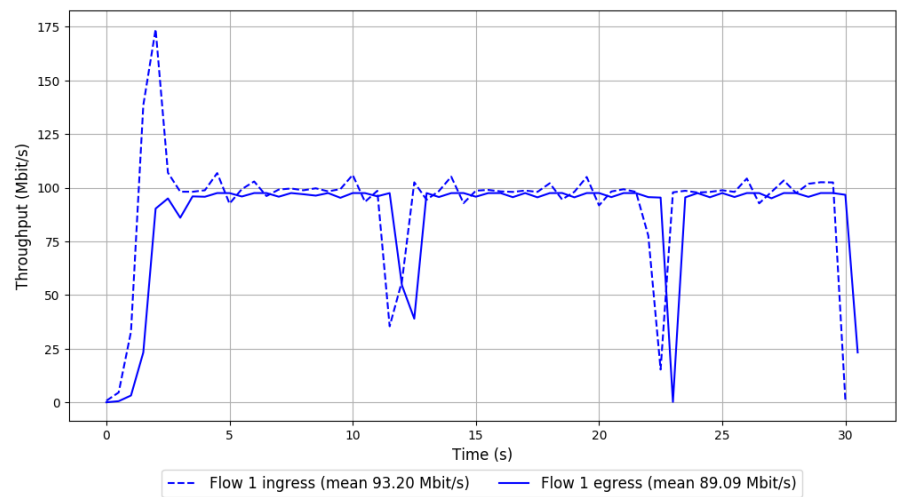
Run 2: Report of TCP BBR — Data Link

Flow 1 ingress (mean 92.29 Mbit/s) ---- Flow 1 egress (mean 90.06 Mbit/s)

Flow 1 (95th percentile 115.22 ms)

```
Run 3: Statistics of TCP BBR

Start at: 2019-01-18 19:40:10
End at: 2019-01-18 19:40:40
Local clock offset: -2.282 ms
Remote clock offset: 2.64 ms


# Below is generated by plot.py at 2019-01-18 20:54:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.05 Mbit/s
95th percentile per-packet one-way delay: 110.731 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 91.05 Mbit/s
95th percentile per-packet one-way delay: 110.731 ms
Loss rate: 3.12%
```
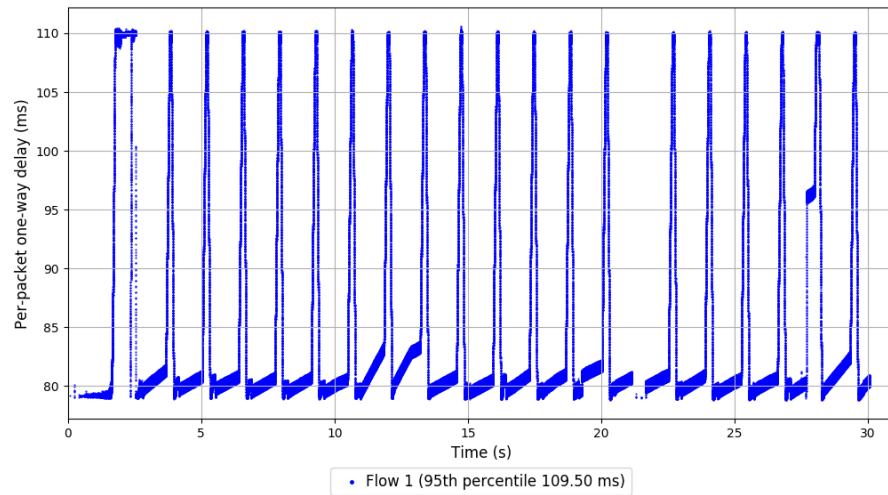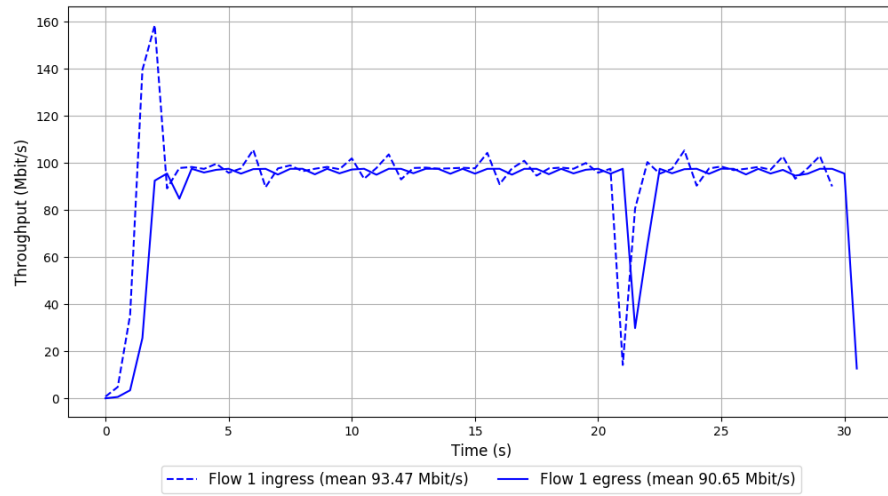
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.98 Mbit/s)   Flow 1 egress (mean 91.05 Mbit/s)

Flow 1 (95th percentile 110.73 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2019-01-18 20:05:08
End at: 2019-01-18 20:05:38
Local clock offset: -1.603 ms
Remote clock offset: 7.627 ms

# Below is generated by plot.py at 2019-01-18 20:54:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.09 Mbit/s
95th percentile per-packet one-way delay: 116.987 ms
Loss rate: 4.33%
-- Flow 1:
Average throughput: 89.09 Mbit/s
95th percentile per-packet one-way delay: 116.987 ms
Loss rate: 4.33%
```
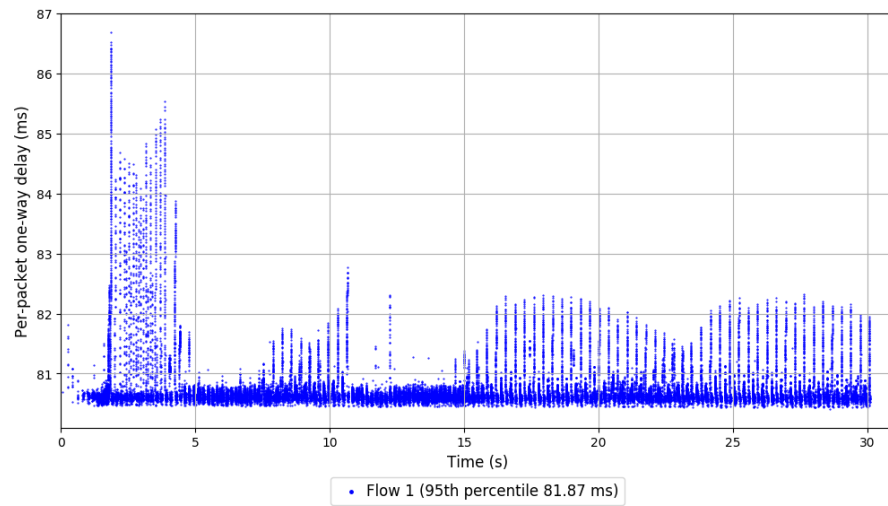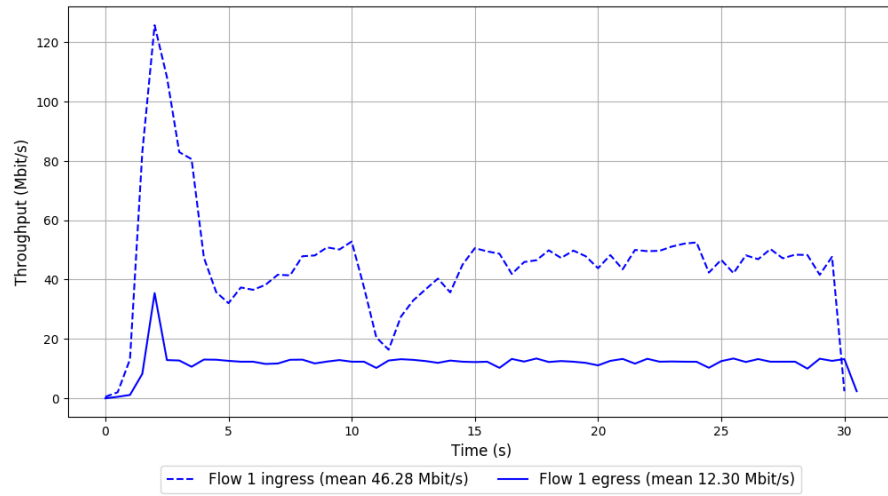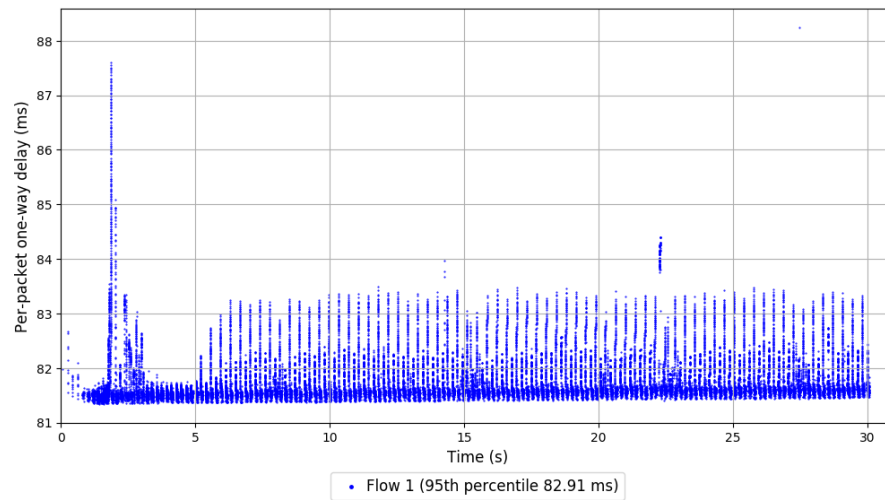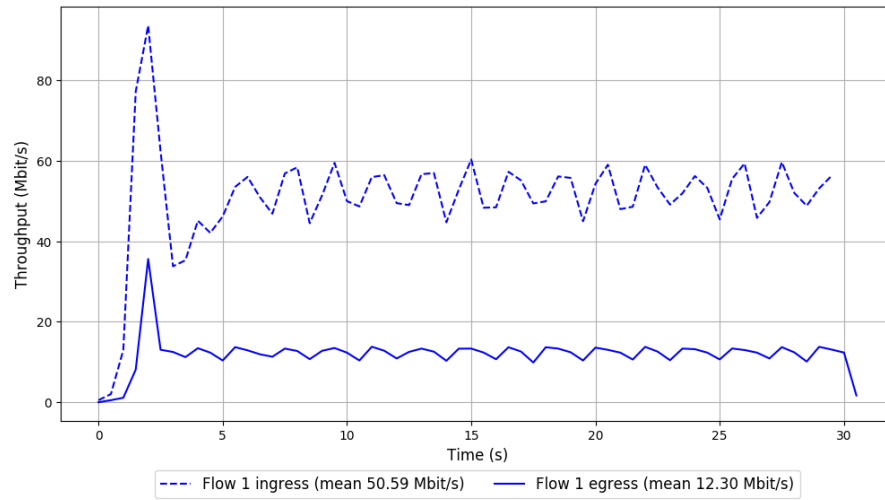
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.20 Mbit/s) --- Flow 1 egress (mean 89.09 Mbit/s)

Flow 1 (95th percentile 116.99 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2019-01-18 20:29:44
End at: 2019-01-18 20:30:14
Local clock offset: -6.953 ms
Remote clock offset: 4.203 ms

# Below is generated by plot.py at 2019-01-18 20:54:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 109.501 ms
Loss rate: 3.02%
-- Flow 1:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 109.501 ms
Loss rate: 3.02%
```

Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.47 Mbit/s)   Flow 1 egress (mean 90.65 Mbit/s)

Flow 1 (95th percentile 109.50 ms)

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```
Run 1: Statistics of Copa

Start at: 2019-01-18 19:10:51
End at: 2019-01-18 19:11:21
Local clock offset: -6.653 ms
Remote clock offset: 4.636 ms

# Below is generated by plot.py at 2019-01-18 20:54:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 81.868 ms
Loss rate: 73.41%
-- Flow 1:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 81.868 ms
Loss rate: 73.41%
```
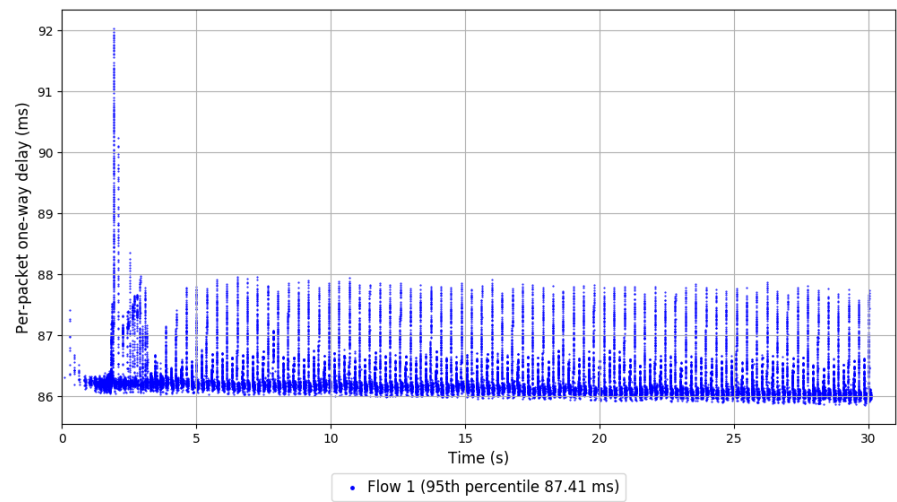
Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2019-01-18 19:35:30
End at: 2019-01-18 19:36:00
Local clock offset: -3.466 ms
Remote clock offset: 3.165 ms


# Below is generated by plot.py at 2019-01-18 20:54:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 82.906 ms
Loss rate: 75.68%
-- Flow 1:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 82.906 ms
Loss rate: 75.68%
```
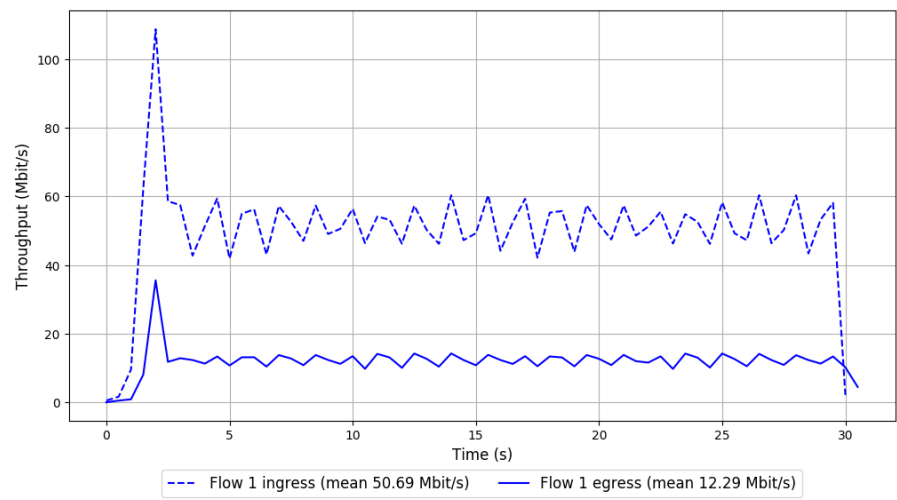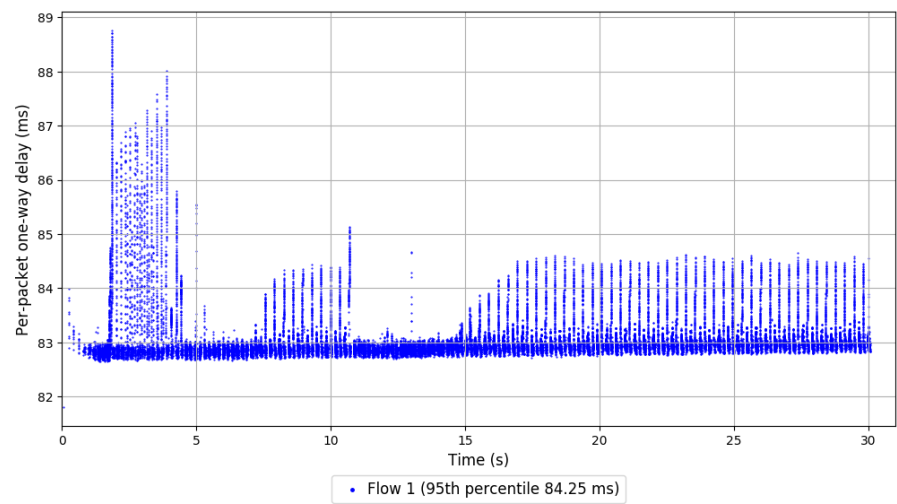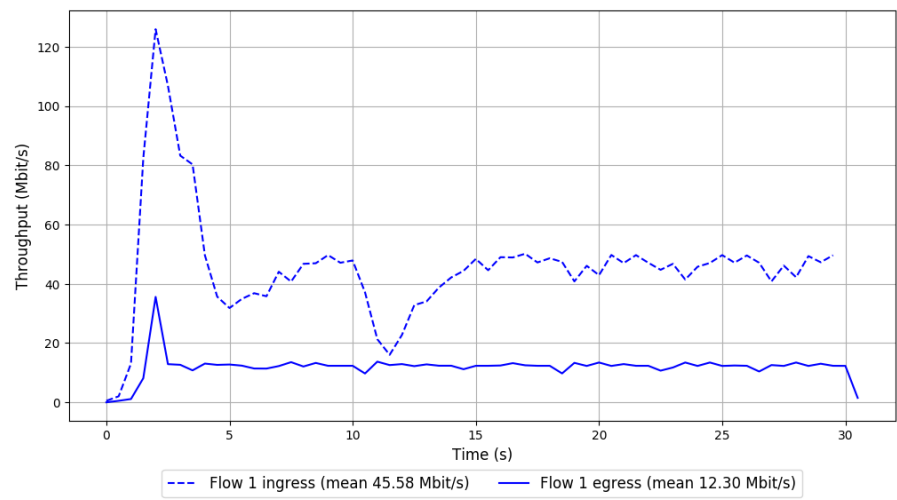
Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 50.59 Mbit/s)   Flow 1 egress (mean 12.30 Mbit/s)

Flow 1 (95th percentile 82.91 ms)

```
Run 3: Statistics of Copa

Start at: 2019-01-18 20:00:29
End at: 2019-01-18 20:00:59
Local clock offset: -1.907 ms
Remote clock offset: 2.868 ms
```

Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 49.18 Mbit/s)   Flow 1 egress (mean 12.28 Mbit/s)

Flow 1 (95th percentile 84.37 ms)

```
Run 4: Statistics of Copa

Start at: 2019-01-18 20:25:05
End at: 2019-01-18 20:25:35
Local clock offset: -6.051 ms
Remote clock offset: 9.054 ms


# Below is generated by plot.py at 2019-01-18 20:54:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.29 Mbit/s
95th percentile per-packet one-way delay: 87.405 ms
Loss rate: 75.76%
-- Flow 1:
Average throughput: 12.29 Mbit/s
95th percentile per-packet one-way delay: 87.405 ms
Loss rate: 75.76%
```
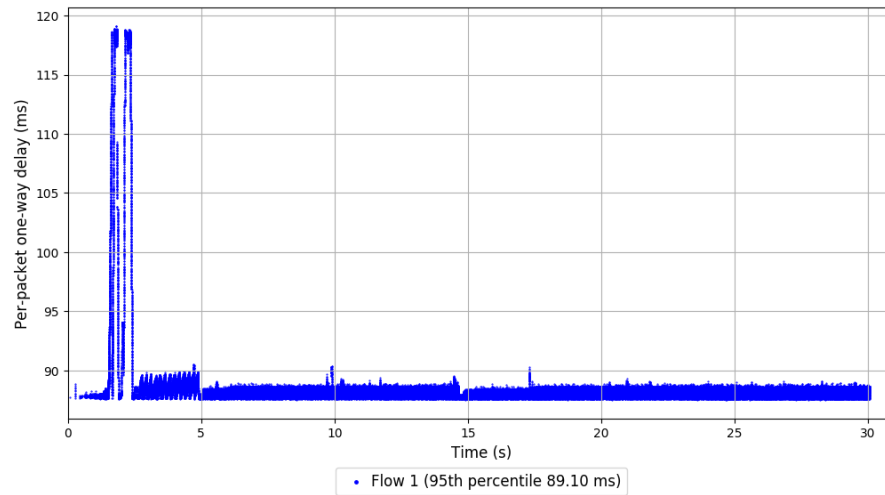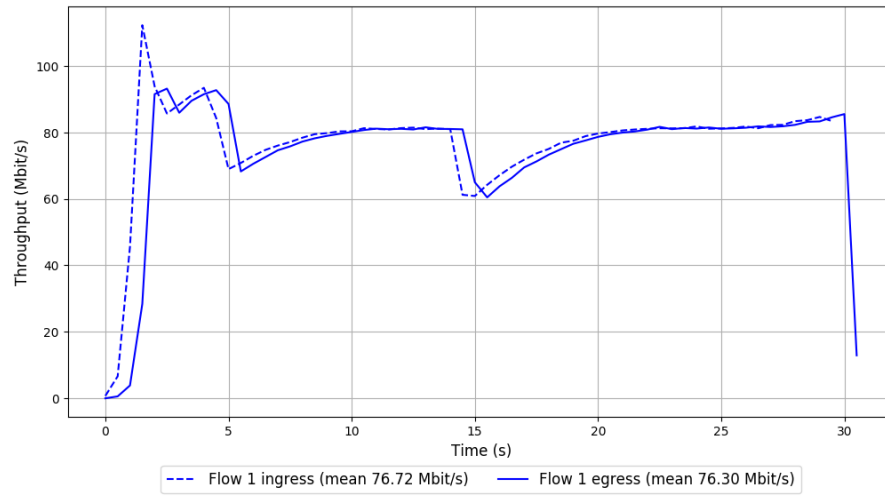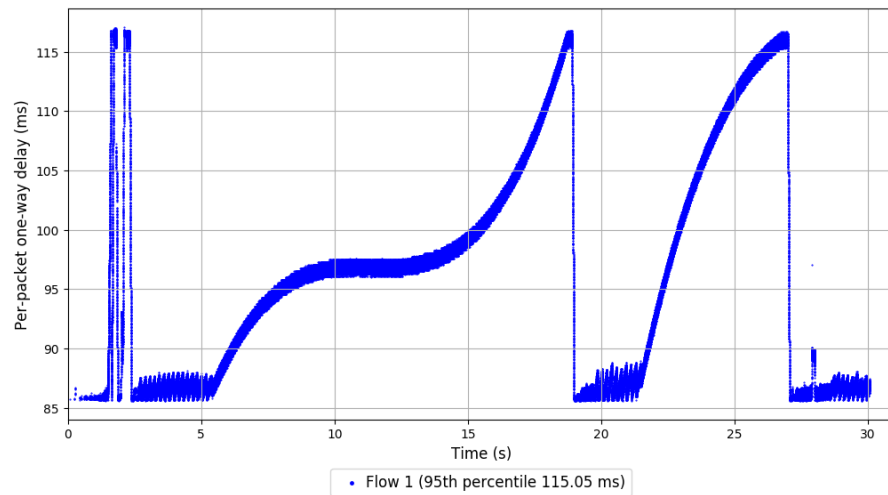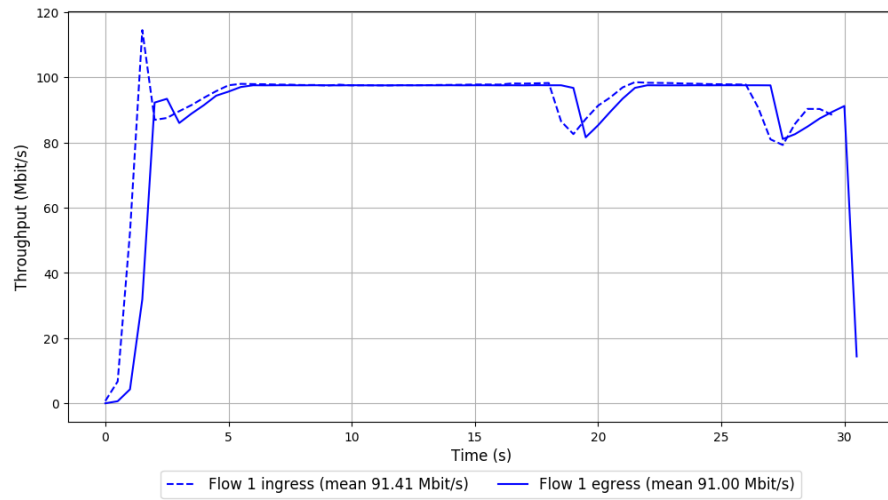
Run 4: Report of Copa — Data Link

Flow 1 ingress (mean 50.69 Mbit/s) --- Flow 1 egress (mean 12.29 Mbit/s)

Flow 1 (95th percentile 87.41 ms)

```
Run 5: Statistics of Copa

Start at: 2019-01-18 20:49:41
End at: 2019-01-18 20:50:11
Local clock offset: -9.845 ms
Remote clock offset: 3.861 ms

# Below is generated by plot.py at 2019-01-18 20:54:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 84.251 ms
Loss rate: 73.01%
-- Flow 1:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 84.251 ms
Loss rate: 73.01%
```

Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 45.58 Mbit/s) --- Flow 1 egress (mean 12.30 Mbit/s)

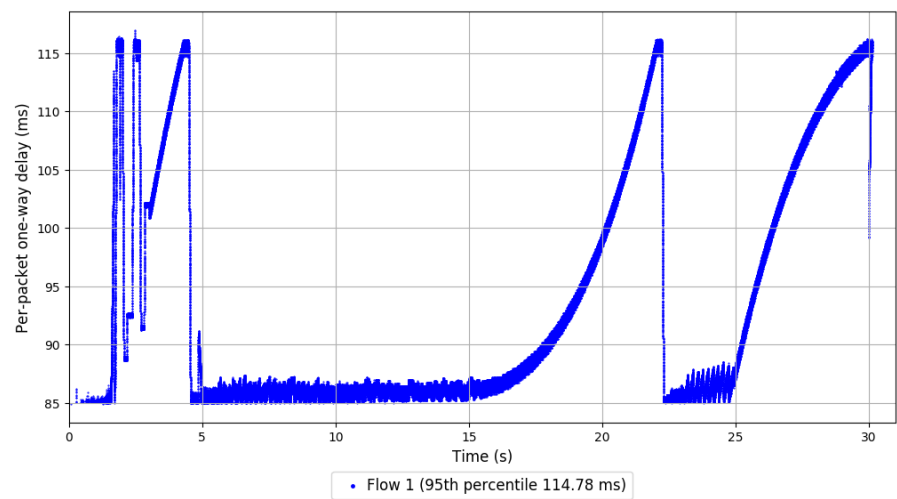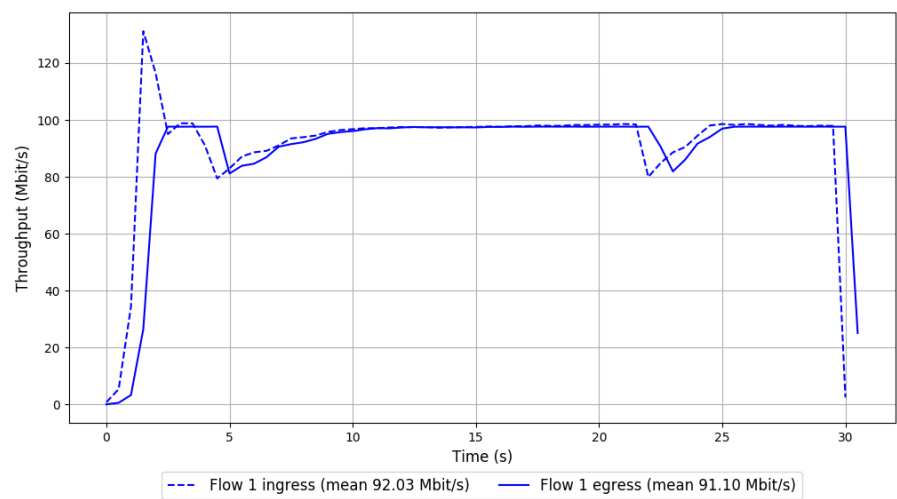Flow 1 (95th percentile 84.25 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2019-01-18 18:49:30
End at: 2019-01-18 18:50:00
Local clock offset: -7.071 ms
Remote clock offset: 9.902 ms


# Below is generated by plot.py at 2019-01-18 20:54:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.30 Mbit/s
95th percentile per-packet one-way delay: 89.100 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 76.30 Mbit/s
95th percentile per-packet one-way delay: 89.100 ms
Loss rate: 0.54%
```

Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2019-01-18 19:14:19
End at: 2019-01-18 19:14:49
Local clock offset: -7.447 ms
Remote clock offset: 10.911 ms


# Below is generated by plot.py at 2019-01-18 20:55:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 115.049 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 115.049 ms
Loss rate: 0.45%
```
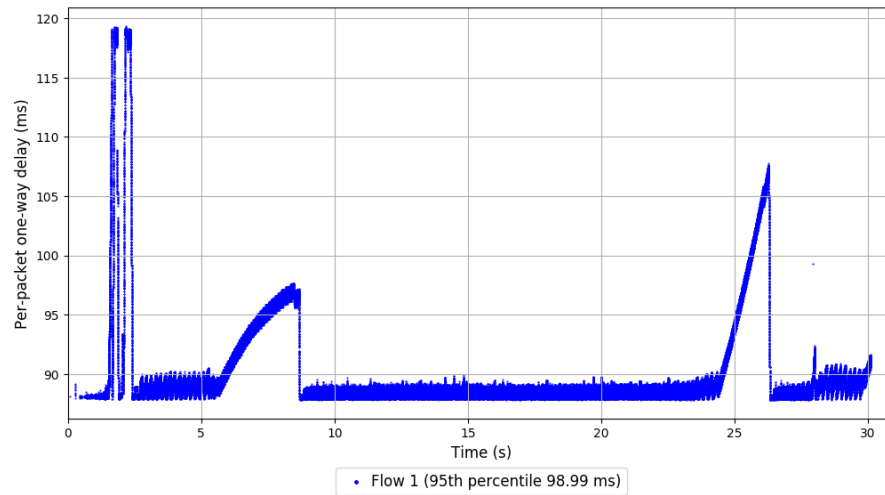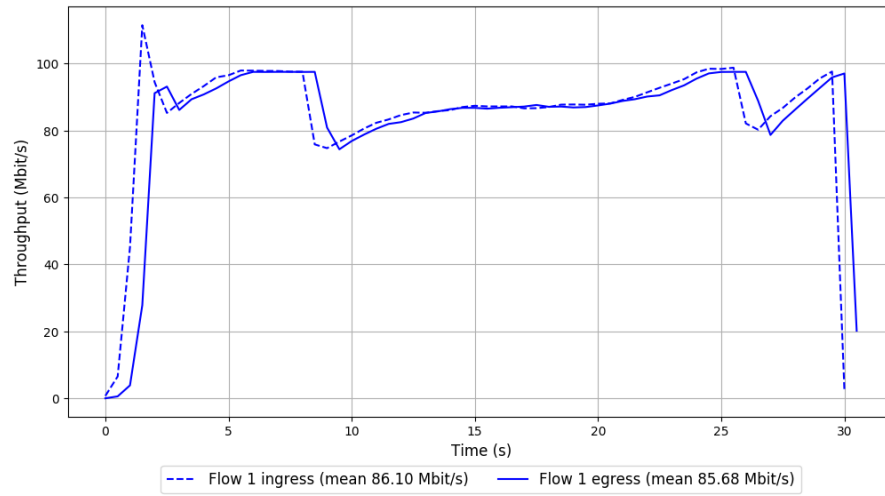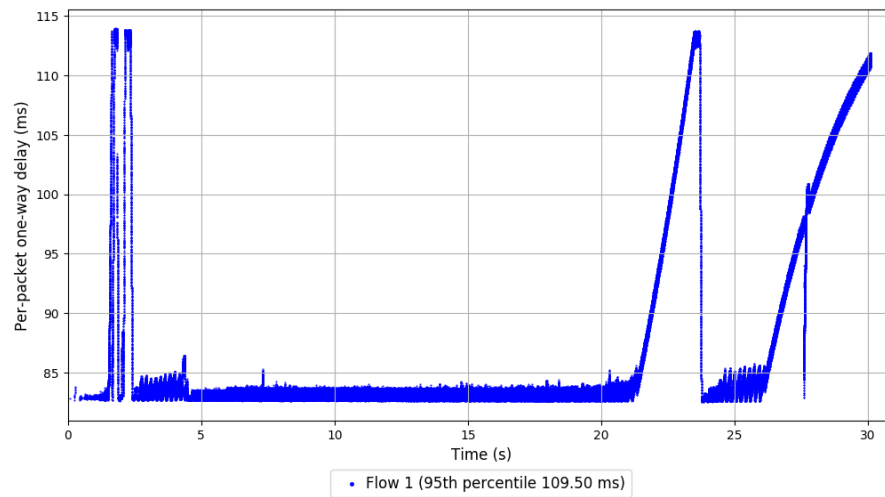
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2019-01-18 19:38:58
End at: 2019-01-18 19:39:28
Local clock offset: -2.436 ms
Remote clock offset: 6.626 ms


# Below is generated by plot.py at 2019-01-18 20:55:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 114.781 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 114.781 ms
Loss rate: 0.91%
```
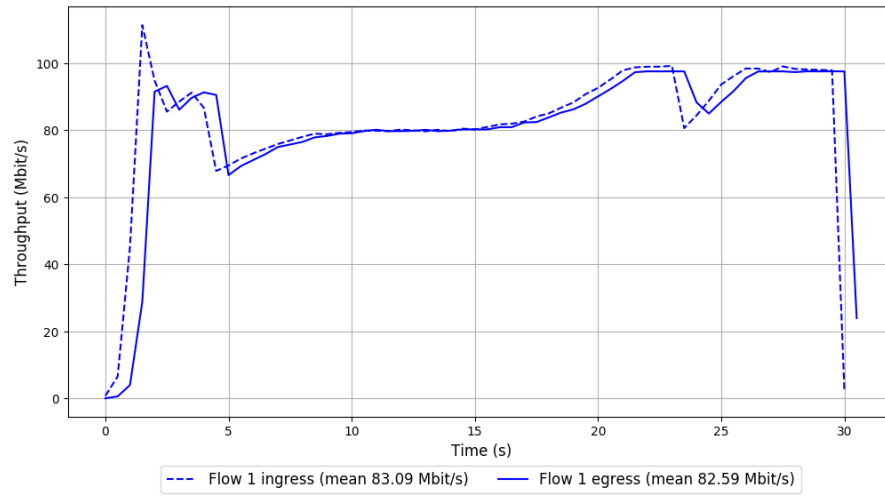
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 92.03 Mbit/s)   Flow 1 egress (mean 91.10 Mbit/s)

• Flow 1 (95th percentile 114.78 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2019-01-18 20:03:56
End at: 2019-01-18 20:04:26
Local clock offset: -1.674 ms
Remote clock offset: 8.662 ms


# Below is generated by plot.py at 2019-01-18 20:55:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.68 Mbit/s
95th percentile per-packet one-way delay: 98.988 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 85.68 Mbit/s
95th percentile per-packet one-way delay: 98.988 ms
Loss rate: 0.48%
```
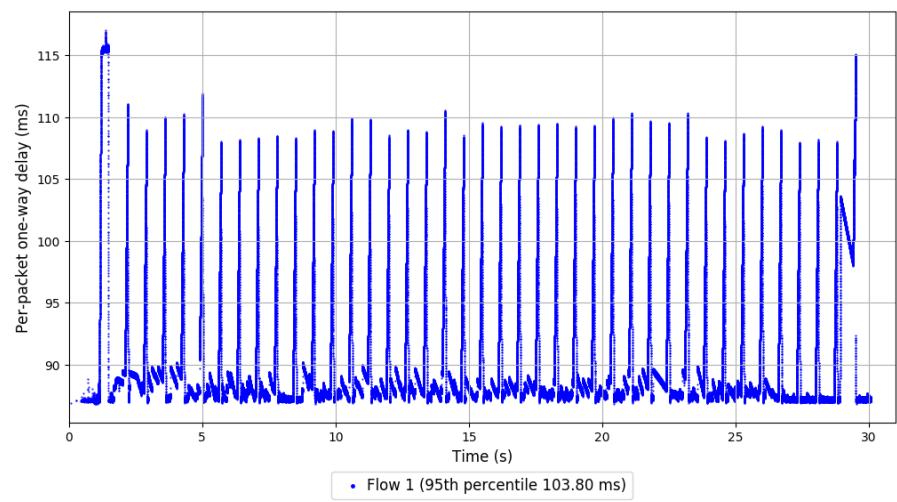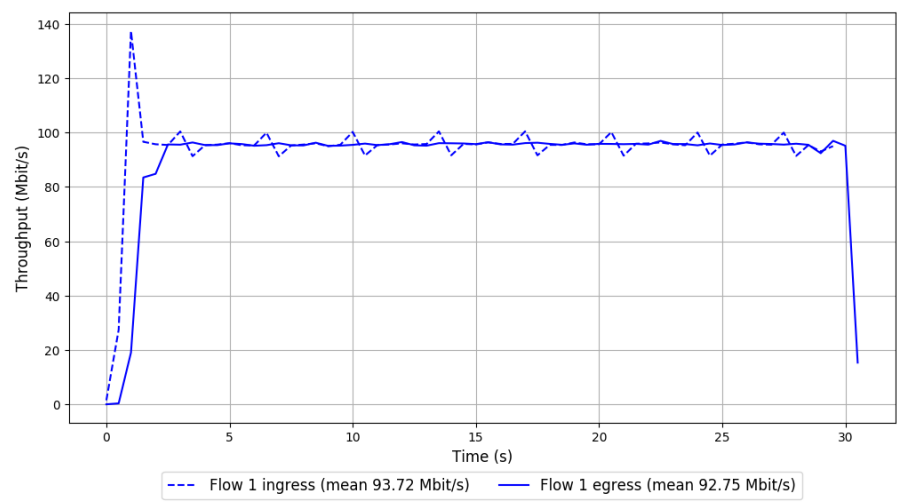
Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 86.10 Mbit/s)   Flow 1 egress (mean 85.68 Mbit/s)

Flow 1 (95th percentile 98.99 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2019-01-18 20:28:32
End at: 2019-01-18 20:29:02
Local clock offset: -6.584 ms
Remote clock offset: 5.327 ms


# Below is generated by plot.py at 2019-01-18 20:55:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.59 Mbit/s
95th percentile per-packet one-way delay: 109.495 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 82.59 Mbit/s
95th percentile per-packet one-way delay: 109.495 ms
Loss rate: 0.51%
```
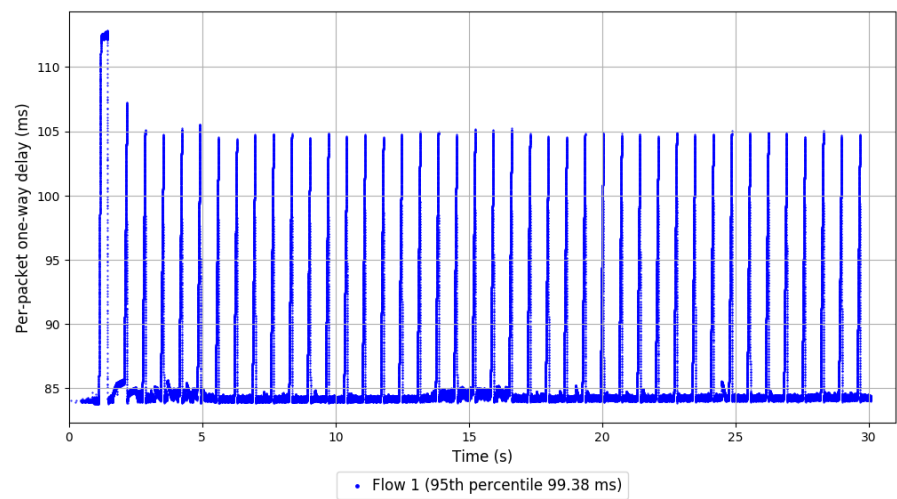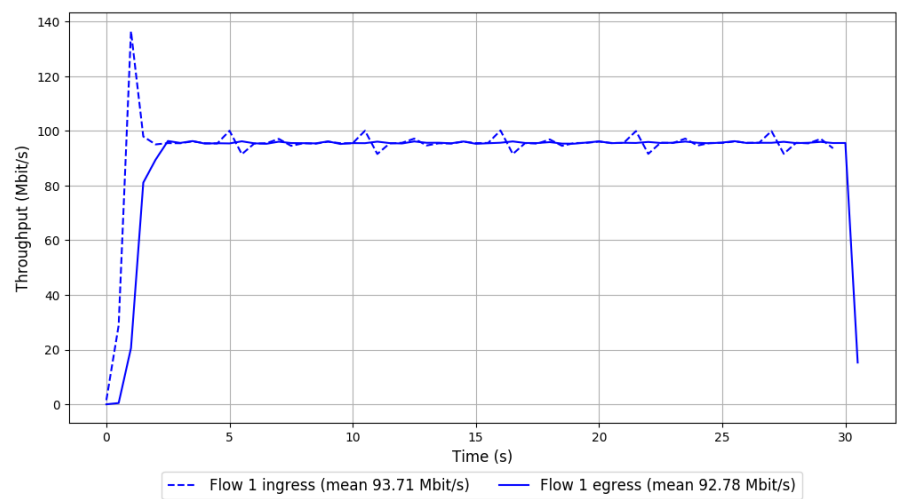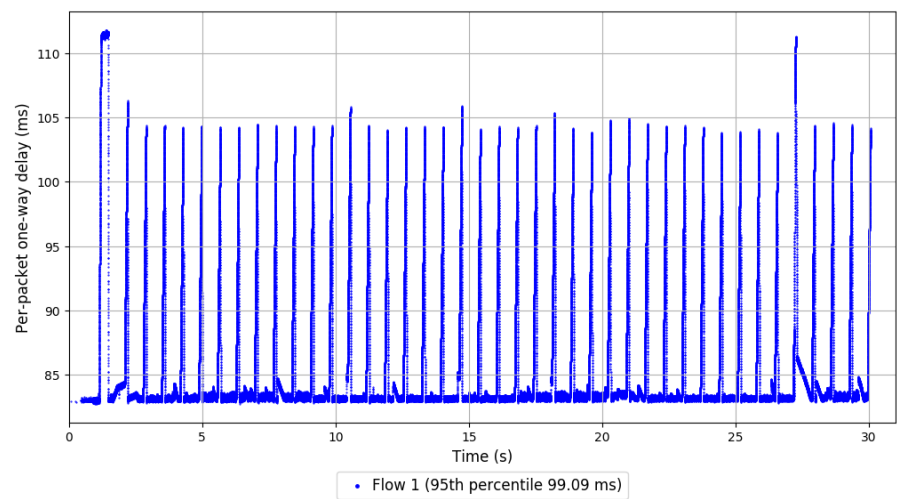
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 83.09 Mbit/s) ——— Flow 1 egress (mean 82.59 Mbit/s)

· Flow 1 (95th percentile 109.50 ms)

```
Run 1: Statistics of FillP

Start at: 2019-01-18 18:54:19
End at: 2019-01-18 18:54:49
Local clock offset: -7.183 ms
Remote clock offset: 7.838 ms


# Below is generated by plot.py at 2019-01-18 20:56:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.75 Mbit/s
95th percentile per-packet one-way delay: 103.799 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 92.75 Mbit/s
95th percentile per-packet one-way delay: 103.799 ms
Loss rate: 1.04%
```
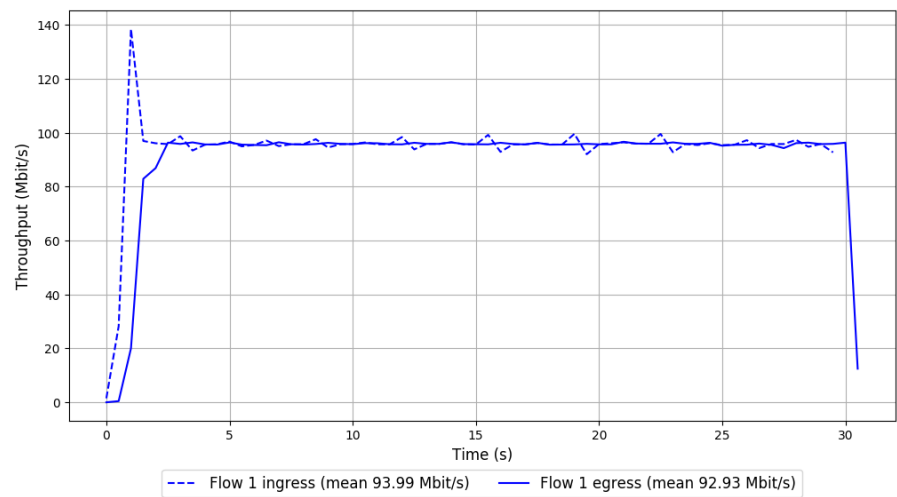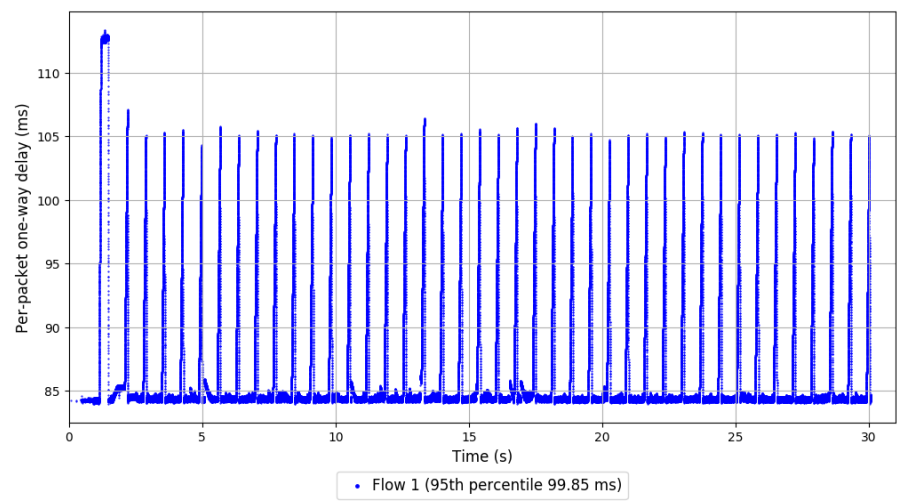
Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 93.72 Mbit/s)   Flow 1 egress (mean 92.75 Mbit/s)

Flow 1 (95th percentile 103.80 ms)

```
Run 2: Statistics of FillP

Start at: 2019-01-18 19:18:58
End at: 2019-01-18 19:19:28
Local clock offset: -6.07 ms
Remote clock offset: 9.838 ms


# Below is generated by plot.py at 2019-01-18 20:56:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 99.382 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 99.382 ms
Loss rate: 0.99%
```
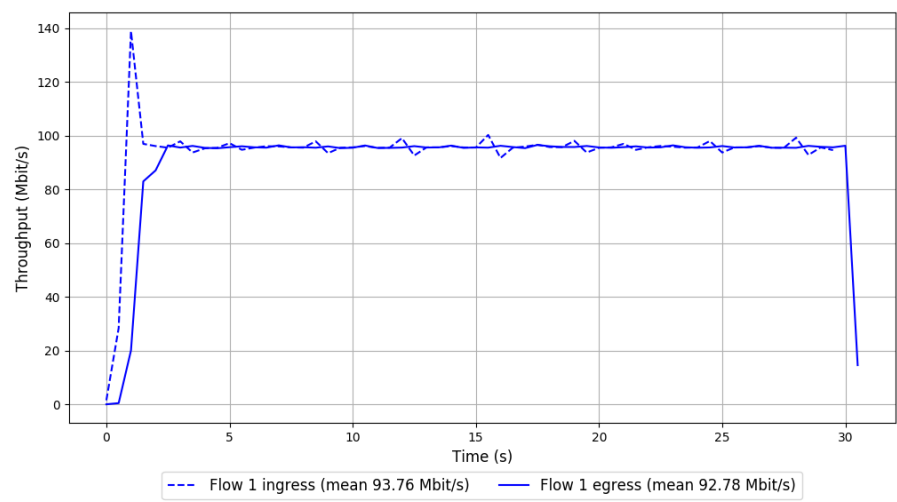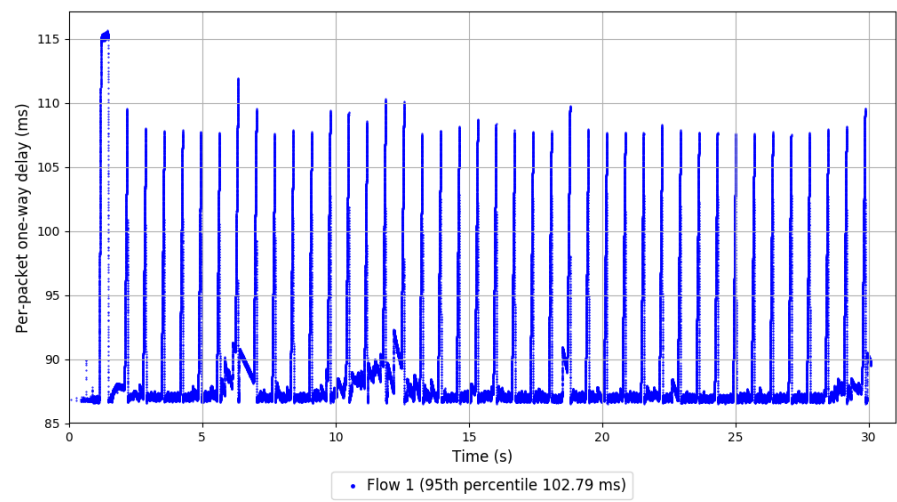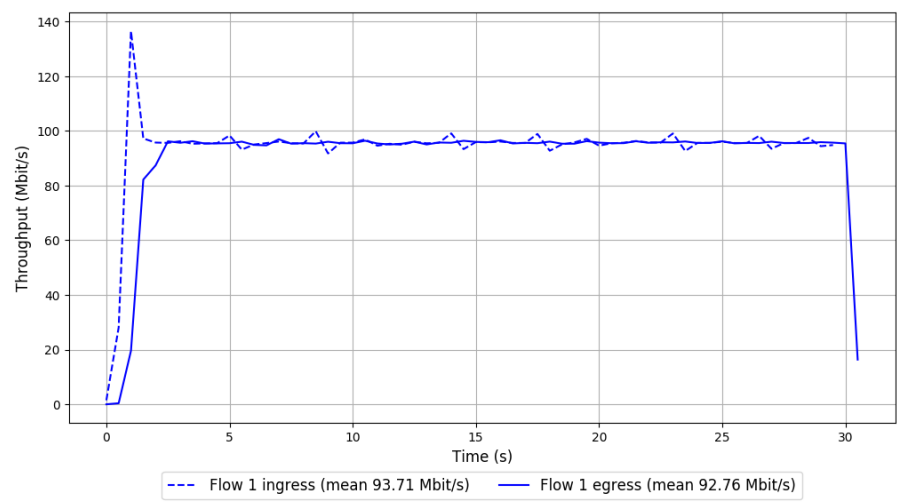
Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2019-01-18 19:43:37
End at: 2019-01-18 19:44:07
Local clock offset: -2.049 ms
Remote clock offset: 3.465 ms


# Below is generated by plot.py at 2019-01-18 20:56:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 99.087 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 99.087 ms
Loss rate: 1.06%
```
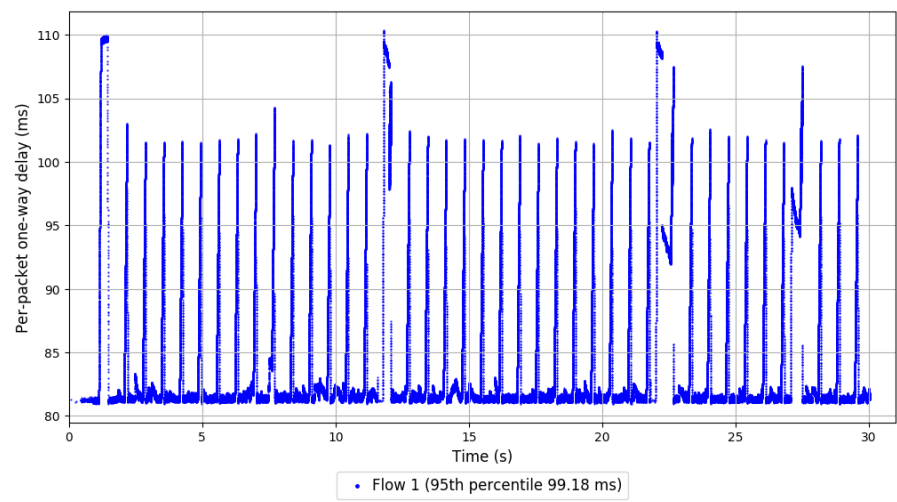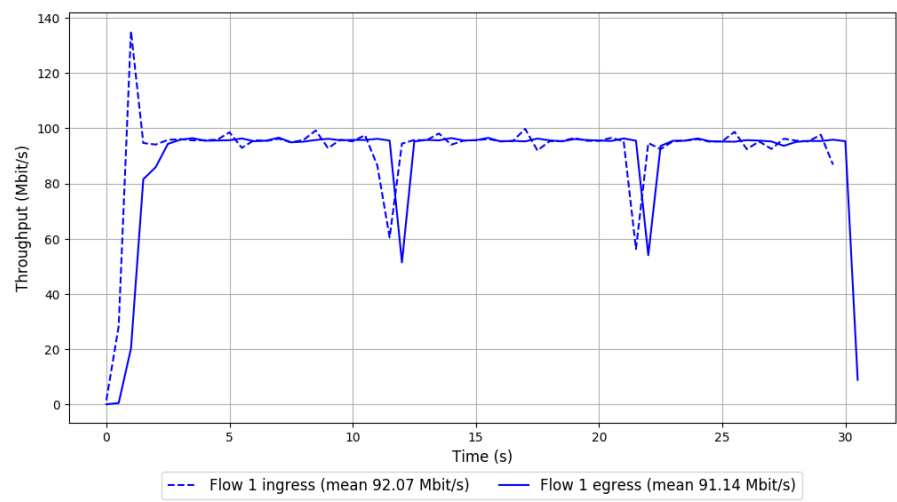
Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 93.99 Mbit/s) --- Flow 1 egress (mean 92.93 Mbit/s)

Flow 1 (95th percentile 99.09 ms)

```
Run 4: Statistics of FillP

Start at: 2019-01-18 20:08:35
End at: 2019-01-18 20:09:05
Local clock offset: -0.671 ms
Remote clock offset: 6.908 ms


# Below is generated by plot.py at 2019-01-18 20:56:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 99.849 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 99.849 ms
Loss rate: 1.04%
```
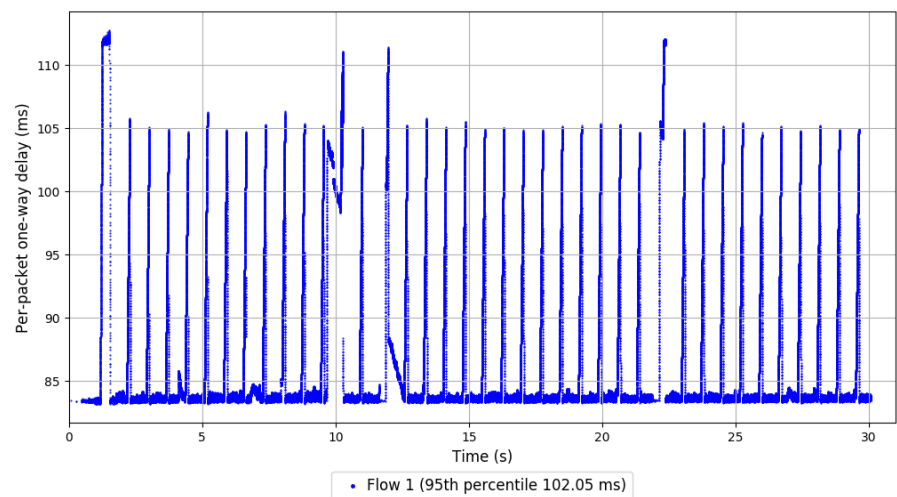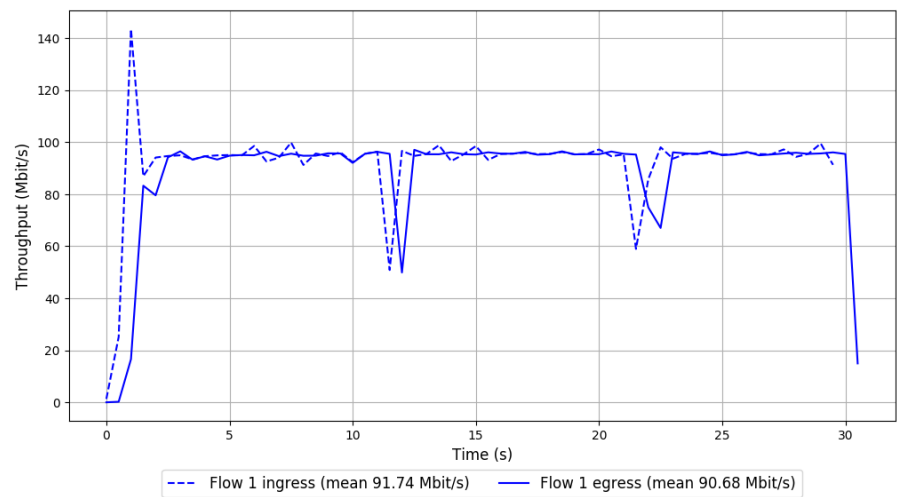
Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 93.76 Mbit/s) — — — Flow 1 egress (mean 92.78 Mbit/s)

Flow 1 (95th percentile 99.85 ms)

```
Run 5: Statistics of FillP

Start at: 2019-01-18 20:33:11
End at: 2019-01-18 20:33:41
Local clock offset: -7.73 ms
Remote clock offset: 10.572 ms


# Below is generated by plot.py at 2019-01-18 20:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.76 Mbit/s
95th percentile per-packet one-way delay: 102.791 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 92.76 Mbit/s
95th percentile per-packet one-way delay: 102.791 ms
Loss rate: 1.01%
```
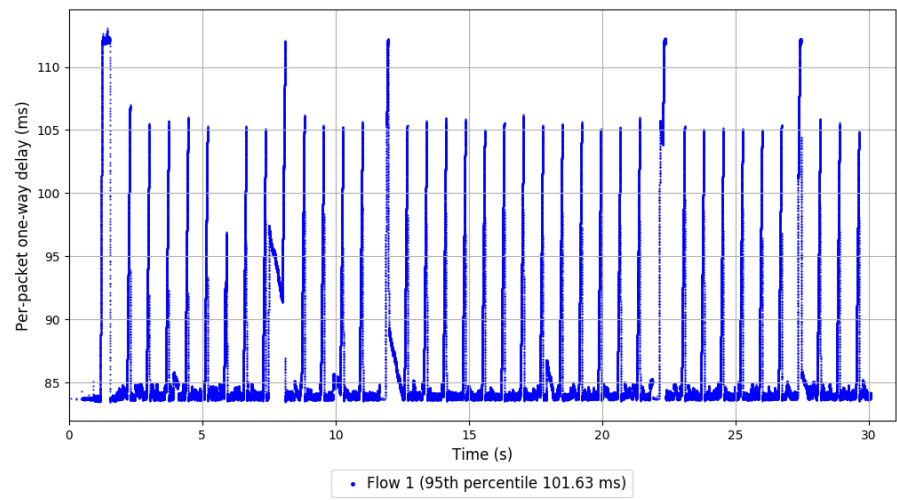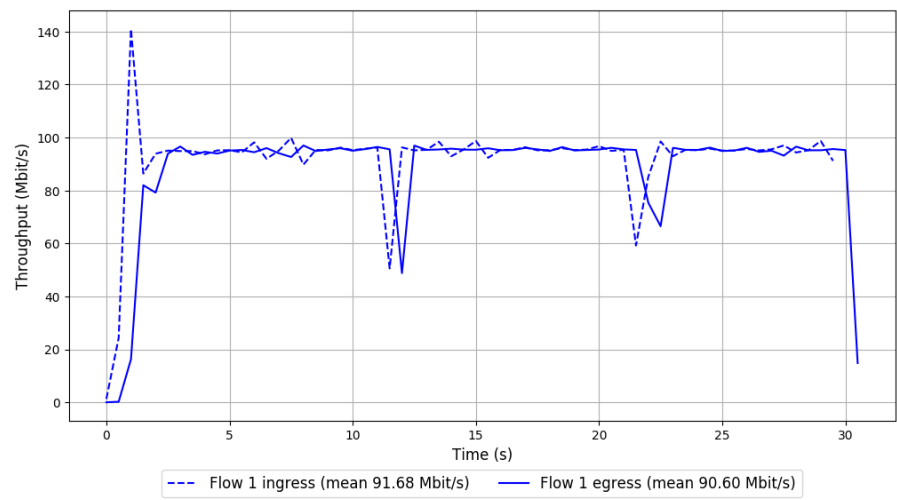
Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 93.71 Mbit/s) ----   Flow 1 egress (mean 92.76 Mbit/s) ——

Flow 1 (95th percentile 102.79 ms)

```
Run 1: Statistics of FillP-Sheep

Start at: 2019-01-18 19:00:14
End at: 2019-01-18 19:00:44
Local clock offset: -7.323 ms
Remote clock offset: 4.137 ms


# Below is generated by plot.py at 2019-01-18 20:56:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 99.176 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 99.176 ms
Loss rate: 1.01%
```
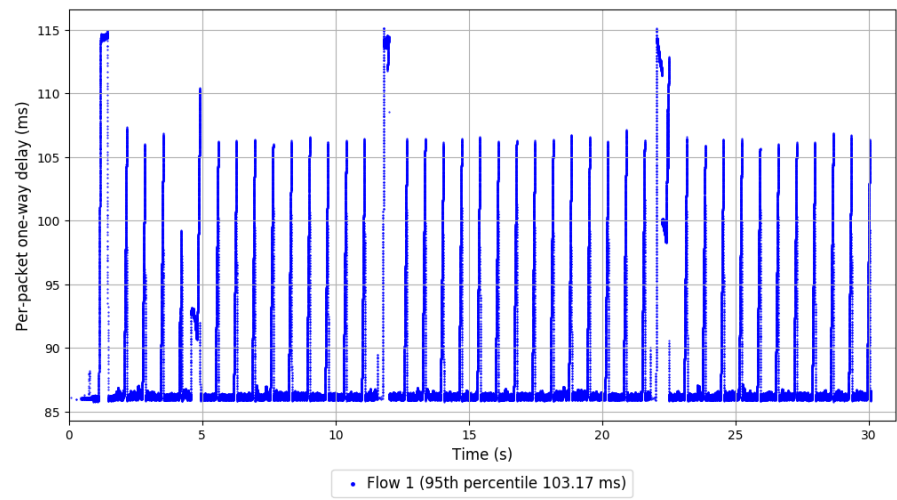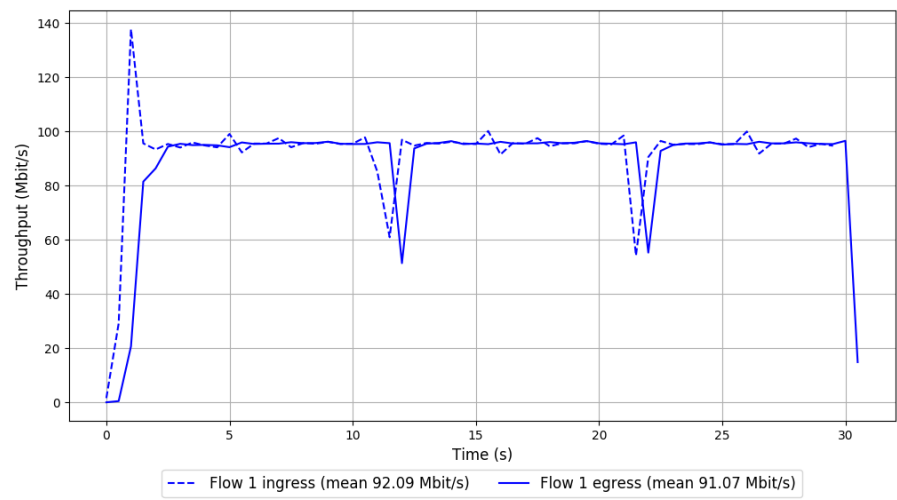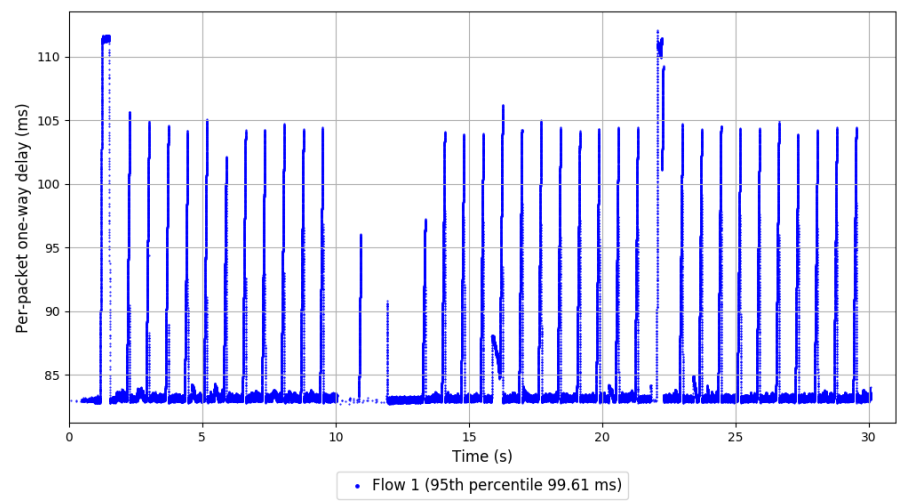
Run 1: Report of FillP-Sheep — Data Link

```
Run 2: Statistics of FillP-Sheep

Start at: 2019-01-18 19:24:53
End at: 2019-01-18 19:25:23
Local clock offset: -5.001 ms
Remote clock offset: 5.444 ms


# Below is generated by plot.py at 2019-01-18 20:57:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 102.053 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 102.053 ms
Loss rate: 1.16%
```
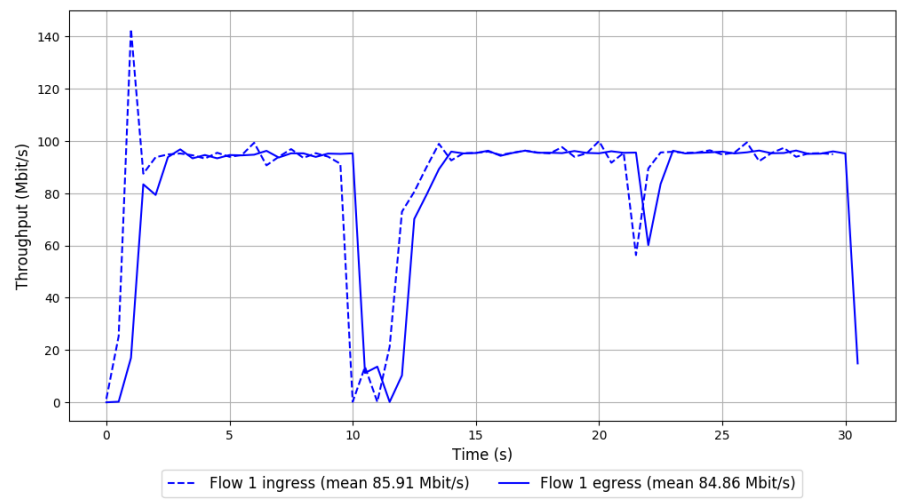
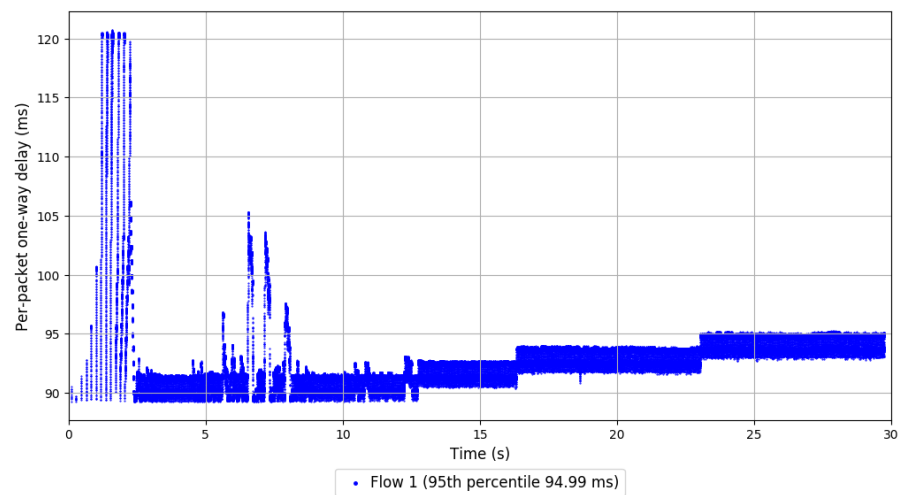Run 2: Report of FillP-Sheep — Data Link

```
Run 3: Statistics of FillP-Sheep

Start at: 2019-01-18 19:49:31
End at: 2019-01-18 19:50:01
Local clock offset: -1.677 ms
Remote clock offset: 3.229 ms


# Below is generated by plot.py at 2019-01-18 20:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 101.634 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 101.634 ms
Loss rate: 1.18%
```
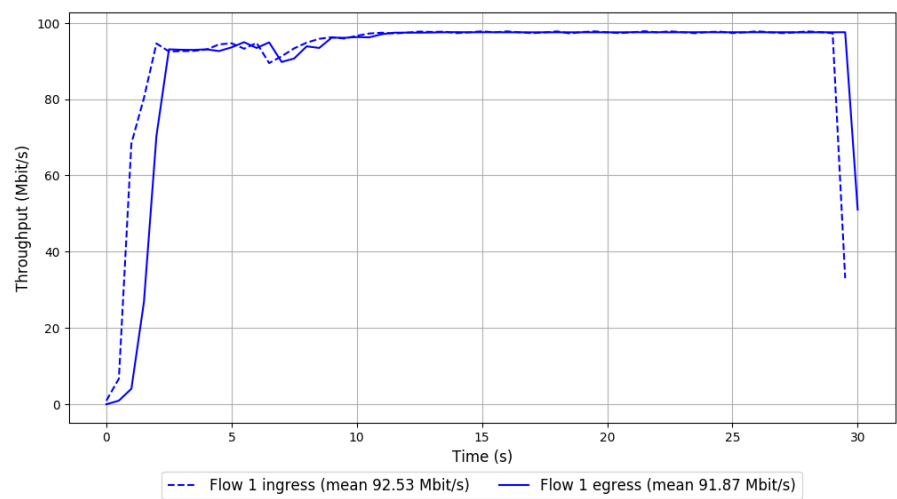
Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 91.68 Mbit/s) --- Flow 1 egress (mean 90.60 Mbit/s)

Flow 1 (95th percentile 101.63 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2019-01-18 20:14:29
End at: 2019-01-18 20:14:59
Local clock offset: -1.139 ms
Remote clock offset: 9.807 ms


# Below is generated by plot.py at 2019-01-18 20:57:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.07 Mbit/s
95th percentile per-packet one-way delay: 103.171 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 91.07 Mbit/s
95th percentile per-packet one-way delay: 103.171 ms
Loss rate: 1.10%
```
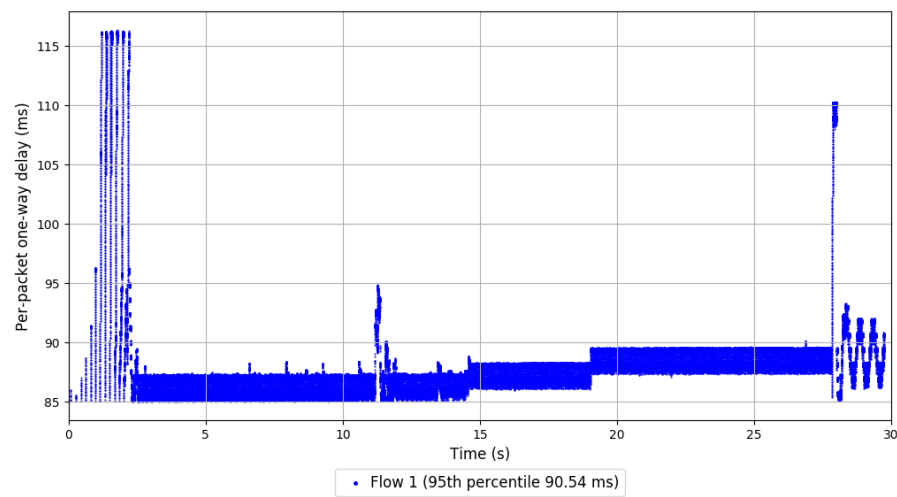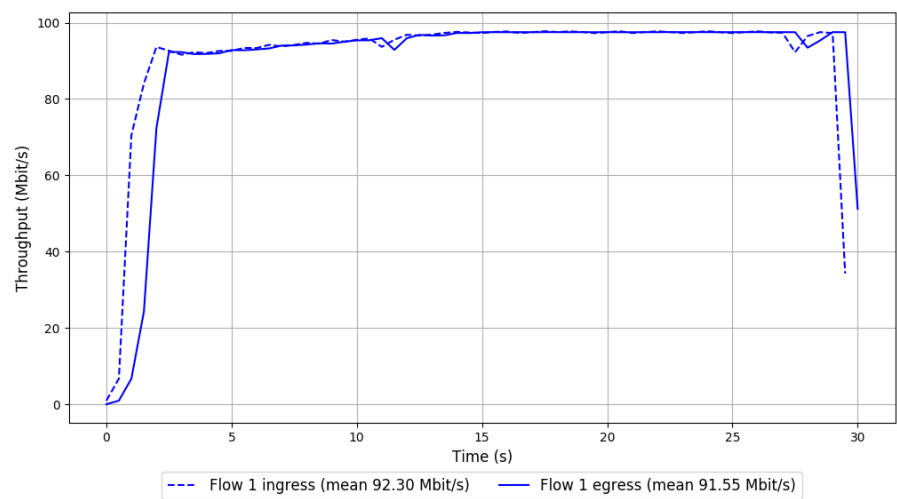
Run 4: Report of FillP-Sheep — Data Link

```
Run 5: Statistics of FillP-Sheep

Start at: 2019-01-18 20:39:06
End at: 2019-01-18 20:39:36
Local clock offset: -8.806 ms
Remote clock offset: 4.68 ms


# Below is generated by plot.py at 2019-01-18 20:57:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.86 Mbit/s
95th percentile per-packet one-way delay: 99.615 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 84.86 Mbit/s
95th percentile per-packet one-way delay: 99.615 ms
Loss rate: 1.22%
```
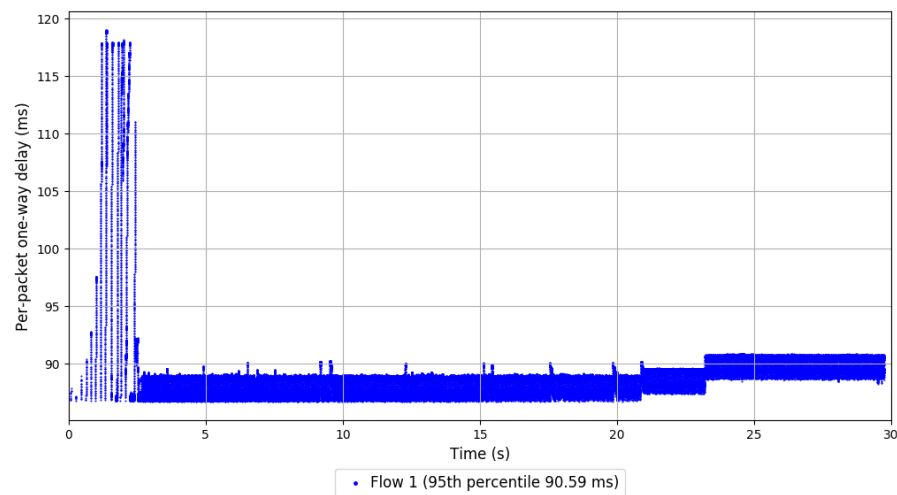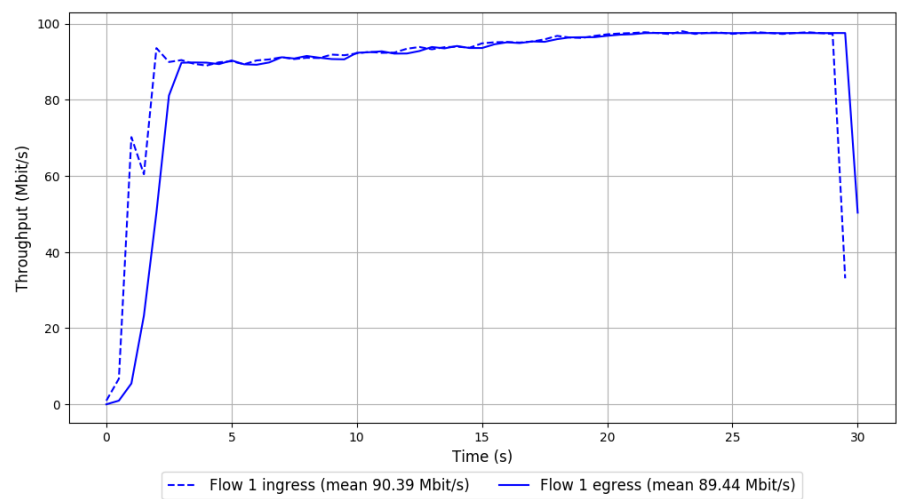
Run 5: Report of FillP-Sheep — Data Link

```
Run 1: Statistics of Indigo

Start at: 2019-01-18 19:08:27
End at: 2019-01-18 19:08:57
Local clock offset: -7.463 ms
Remote clock offset: 10.592 ms


# Below is generated by plot.py at 2019-01-18 20:57:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.87 Mbit/s
95th percentile per-packet one-way delay: 94.990 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 91.87 Mbit/s
95th percentile per-packet one-way delay: 94.990 ms
Loss rate: 0.71%
```
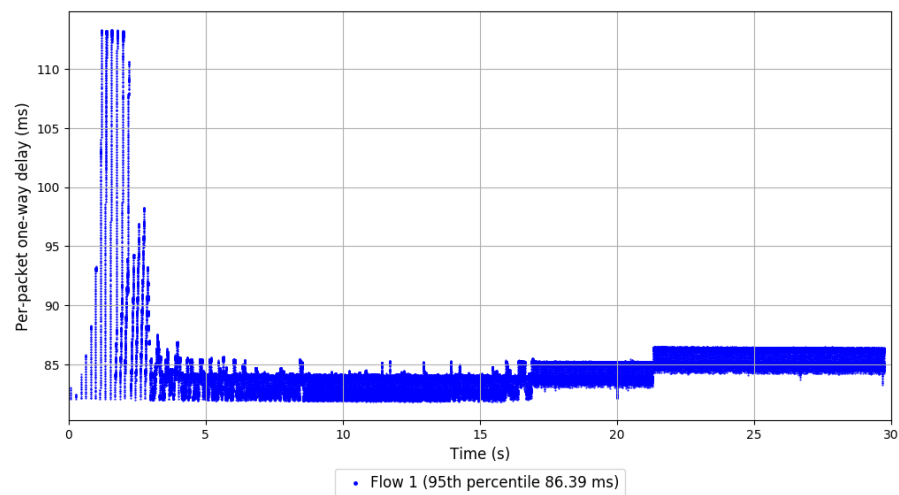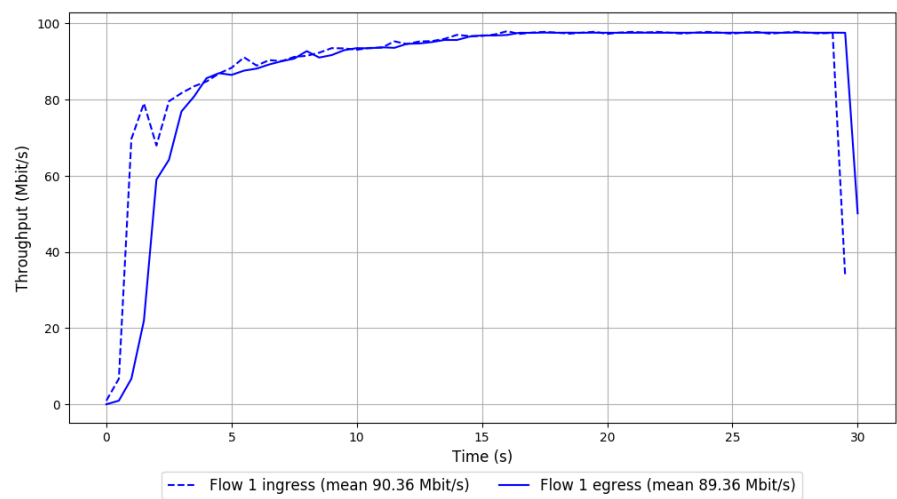
Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2019-01-18 19:33:06
End at: 2019-01-18 19:33:36
Local clock offset: -3.715 ms
Remote clock offset: 8.743 ms


# Below is generated by plot.py at 2019-01-18 20:57:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.55 Mbit/s
95th percentile per-packet one-way delay: 90.540 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 91.55 Mbit/s
95th percentile per-packet one-way delay: 90.540 ms
Loss rate: 0.80%
```

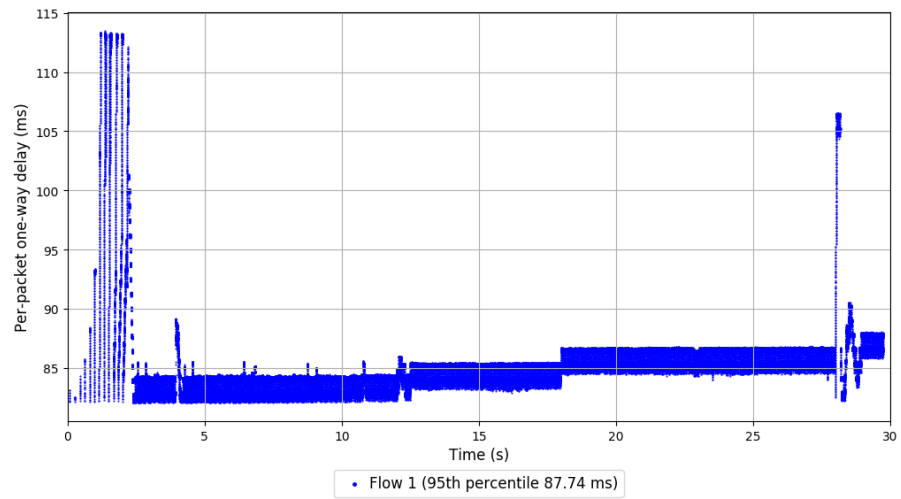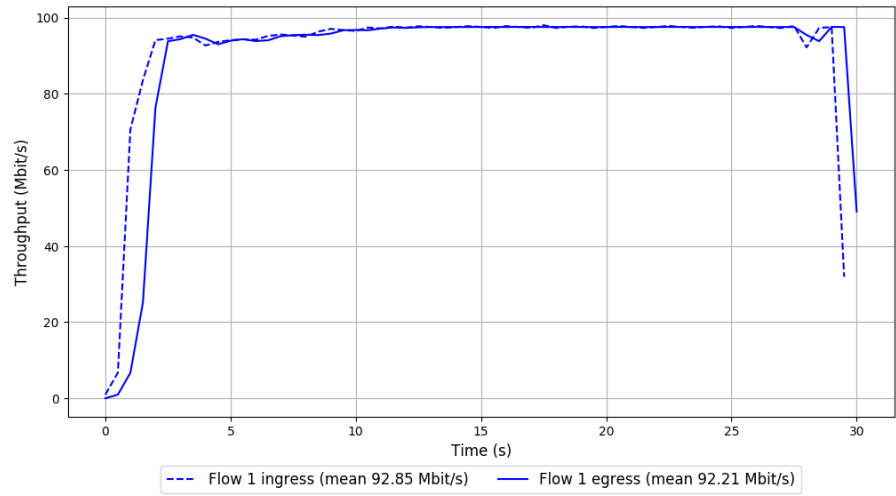Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2019-01-18 19:58:04
End at: 2019-01-18 19:58:34
Local clock offset: -1.2 ms
Remote clock offset: 6.671 ms


# Below is generated by plot.py at 2019-01-18 20:57:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.44 Mbit/s
95th percentile per-packet one-way delay: 90.589 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 89.44 Mbit/s
95th percentile per-packet one-way delay: 90.589 ms
Loss rate: 1.04%
```
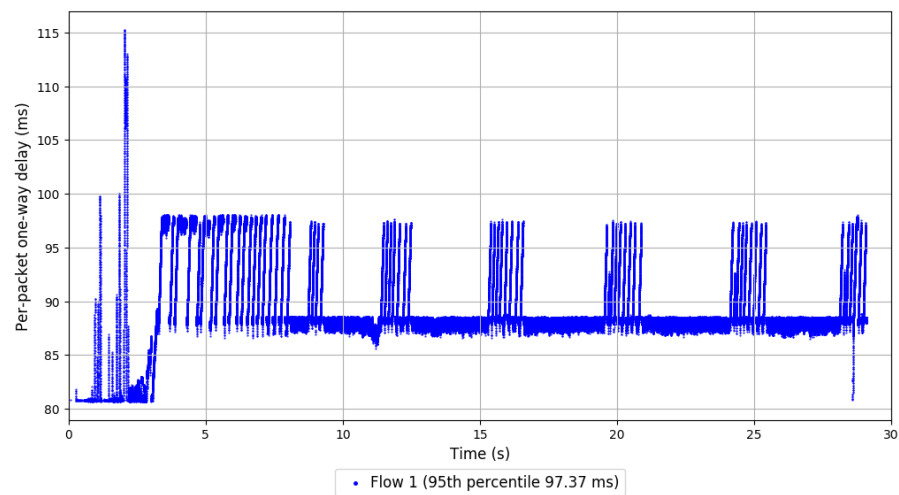
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2019-01-18 20:22:41
End at: 2019-01-18 20:23:11
Local clock offset: -4.919 ms
Remote clock offset: 4.948 ms


# Below is generated by plot.py at 2019-01-18 20:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.36 Mbit/s
95th percentile per-packet one-way delay: 86.395 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 89.36 Mbit/s
95th percentile per-packet one-way delay: 86.395 ms
Loss rate: 1.09%
```
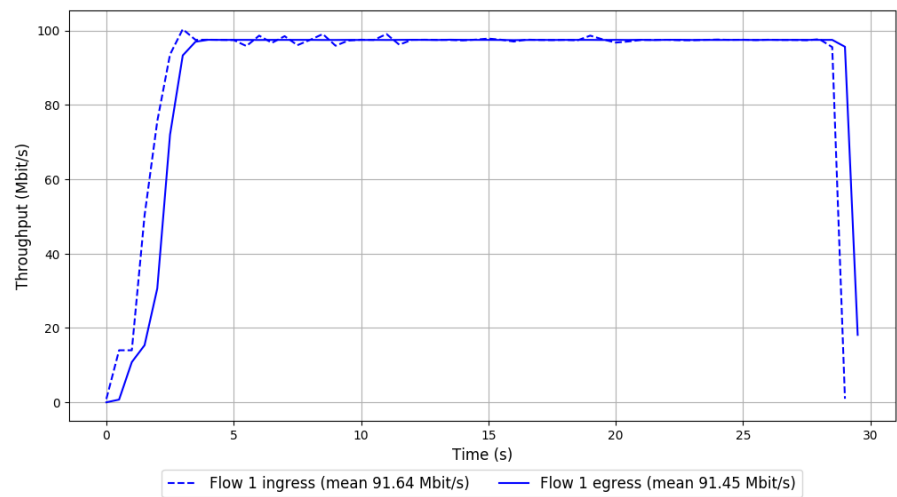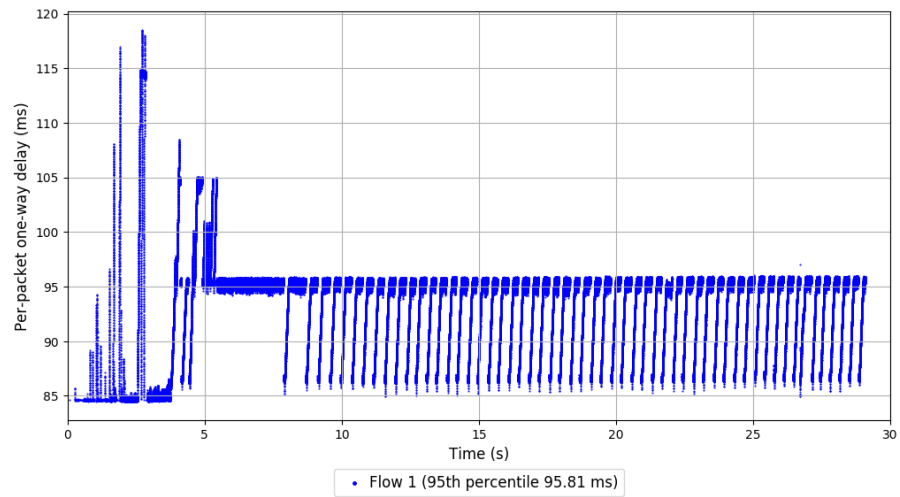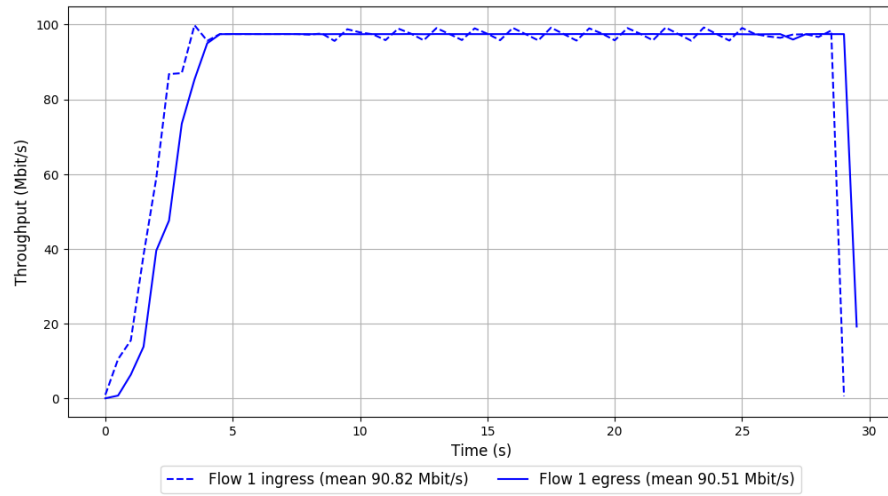
Run 4: Report of Indigo — Data Link

```
Run 5: Statistics of Indigo

Start at: 2019-01-18 20:47:16
End at: 2019-01-18 20:47:46
Local clock offset: -10.529 ms
Remote clock offset: 3.891 ms


# Below is generated by plot.py at 2019-01-18 20:58:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 87.740 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 87.740 ms
Loss rate: 0.67%
```

Run 5: Report of Indigo — Data Link

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-18 19:03:42
End at: 2019-01-18 19:04:12
Local clock offset: -6.619 ms
Remote clock offset: 5.517 ms


# Below is generated by plot.py at 2019-01-18 20:58:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 97.369 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 97.369 ms
Loss rate: 0.19%
```
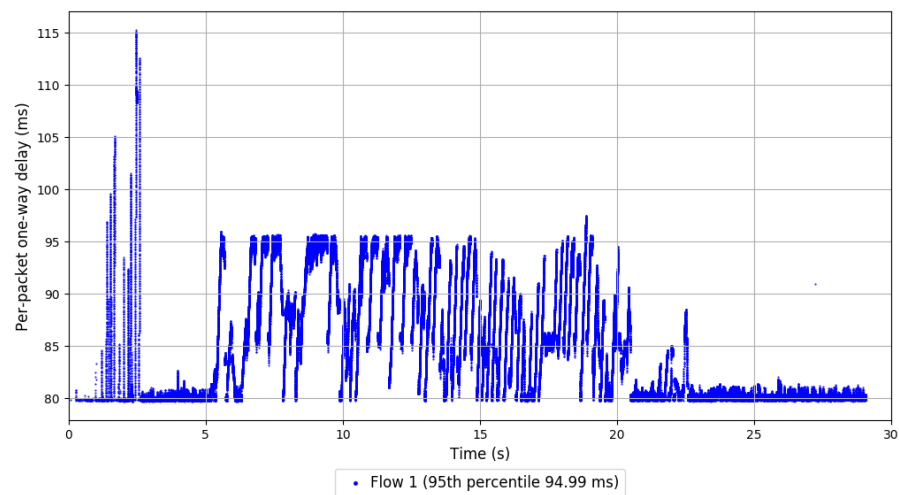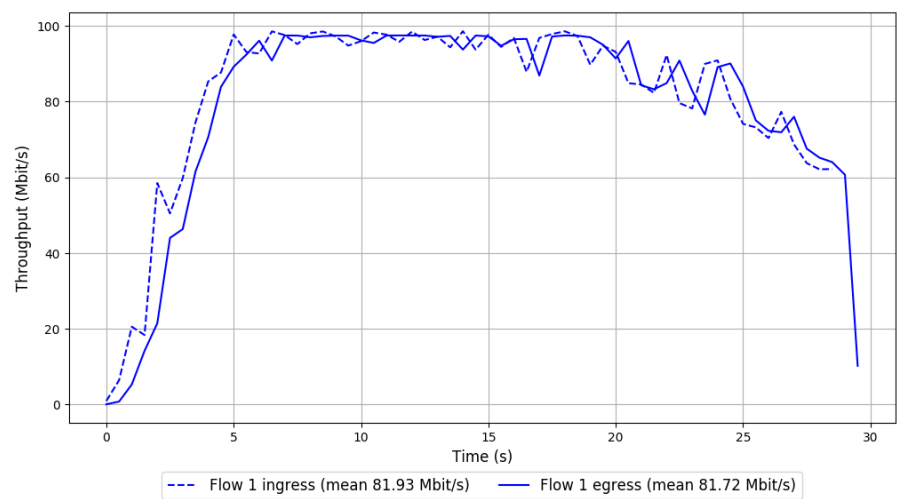
Run 1: Report of Indigo-MusesC3 — Data Link

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-18 19:28:20
End at: 2019-01-18 19:28:50
Local clock offset: -3.574 ms
Remote clock offset: 8.488 ms


# Below is generated by plot.py at 2019-01-18 20:58:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.51 Mbit/s
95th percentile per-packet one-way delay: 95.806 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 90.51 Mbit/s
95th percentile per-packet one-way delay: 95.806 ms
Loss rate: 0.30%
```
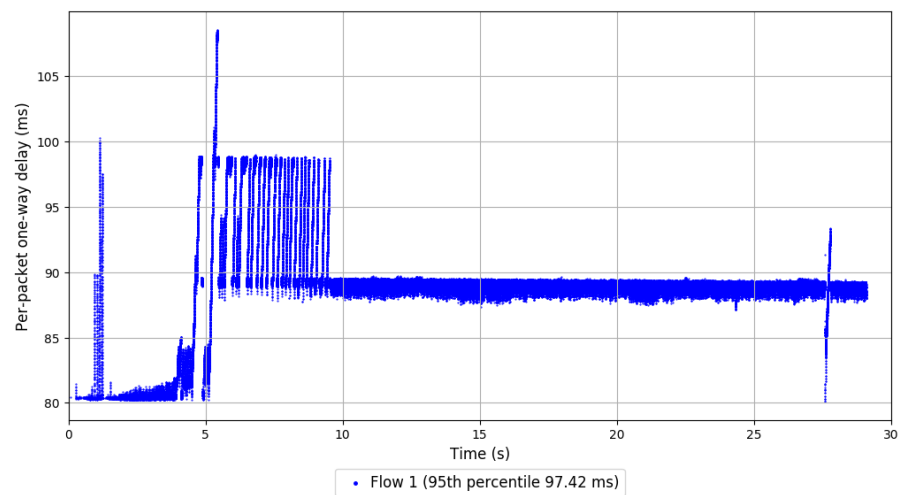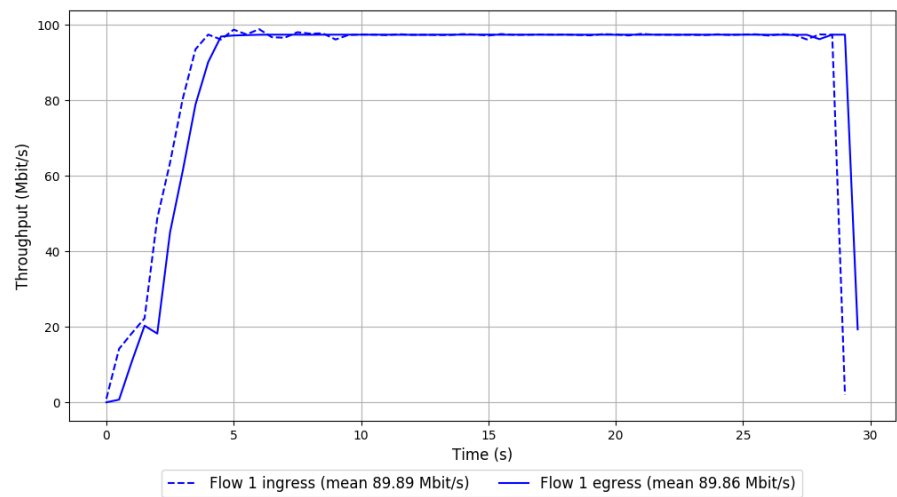
Run 2: Report of Indigo-MusesC3 — Data Link

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```
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-18 19:53:00
End at: 2019-01-18 19:53:30
Local clock offset: -2.229 ms
Remote clock offset: 1.9 ms


# Below is generated by plot.py at 2019-01-18 20:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.72 Mbit/s
95th percentile per-packet one-way delay: 94.992 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 81.72 Mbit/s
95th percentile per-packet one-way delay: 94.992 ms
Loss rate: 0.26%
```
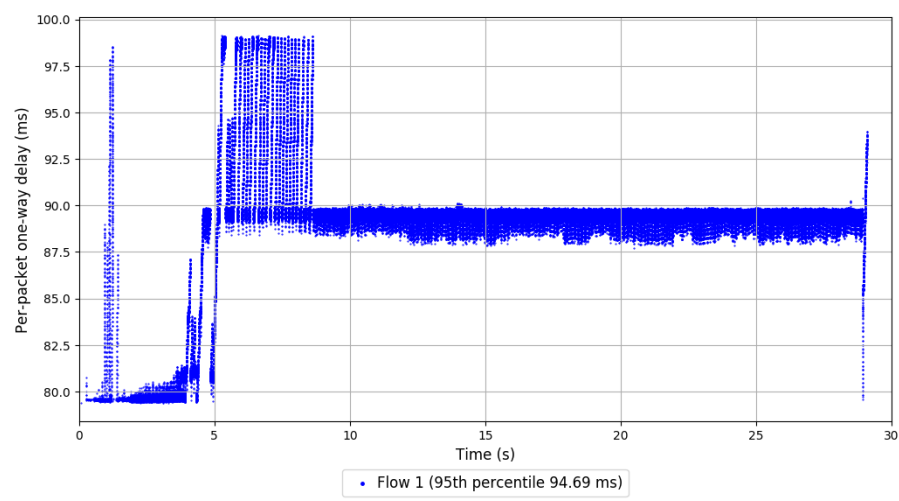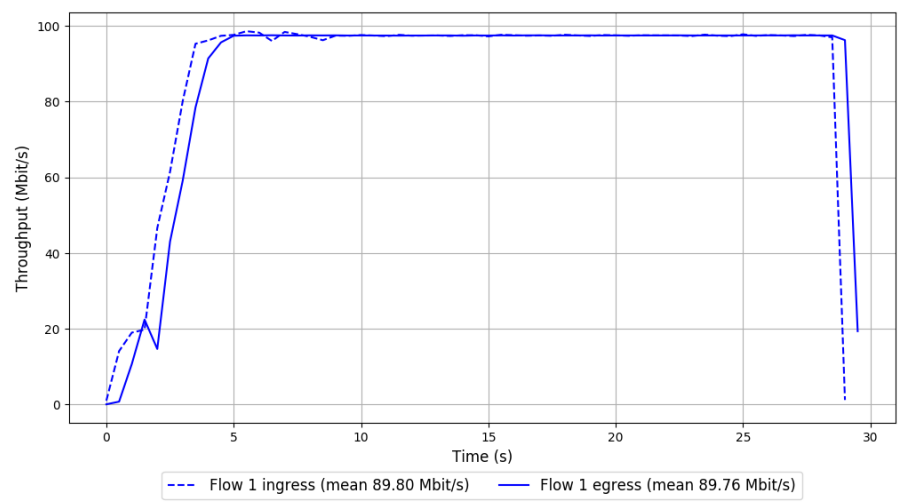
Run 3: Report of Indigo-MusesC3 — Data Link

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-18 20:17:56
End at: 2019-01-18 20:18:26
Local clock offset: -0.993 ms
Remote clock offset: 3.869 ms


# Below is generated by plot.py at 2019-01-18 20:58:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.86 Mbit/s
95th percentile per-packet one-way delay: 97.424 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.86 Mbit/s
95th percentile per-packet one-way delay: 97.424 ms
Loss rate: 0.00%
```
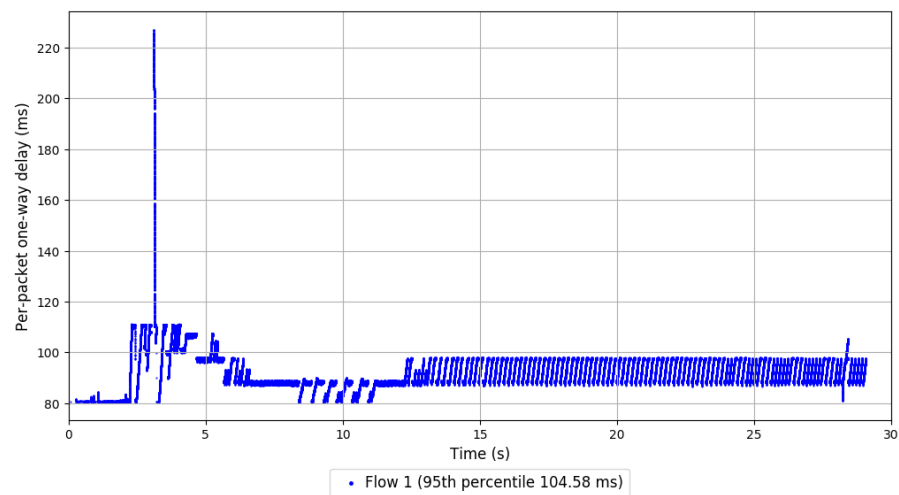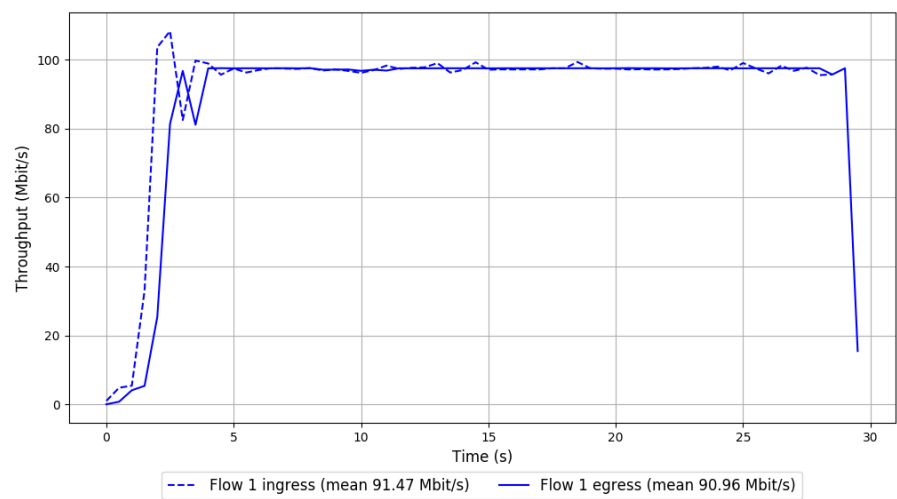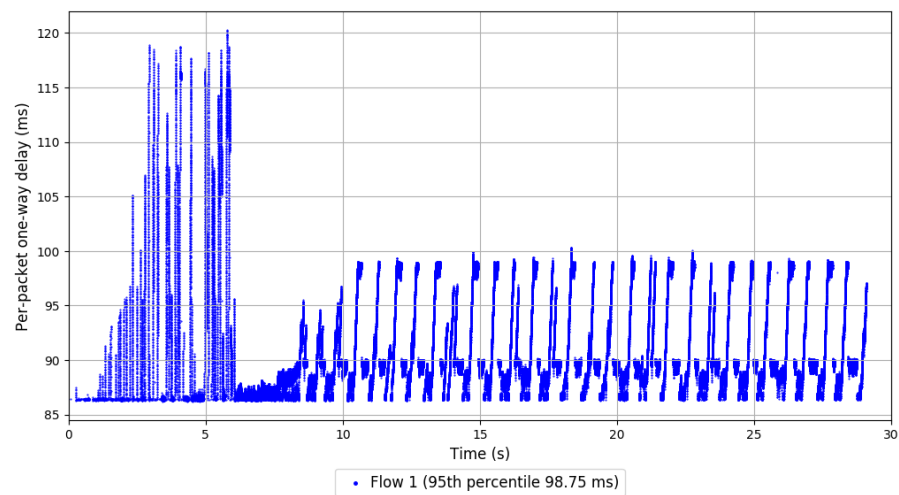
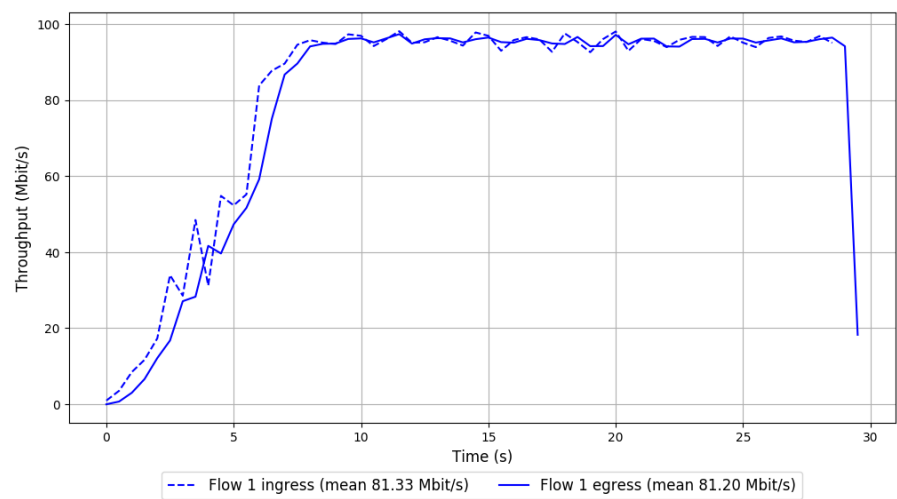Run 4: Report of Indigo-MusesC3 — Data Link

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-18 20:42:33
End at: 2019-01-18 20:43:03
Local clock offset: -9.279 ms
Remote clock offset: 3.136 ms


# Below is generated by plot.py at 2019-01-18 20:58:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 94.691 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 94.691 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC3 — Data Link

```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-18 18:57:53
End at: 2019-01-18 18:58:23
Local clock offset: -7.276 ms
Remote clock offset: 3.874 ms


# Below is generated by plot.py at 2019-01-18 20:58:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.96 Mbit/s
95th percentile per-packet one-way delay: 104.582 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 90.96 Mbit/s
95th percentile per-packet one-way delay: 104.582 ms
Loss rate: 0.50%
```
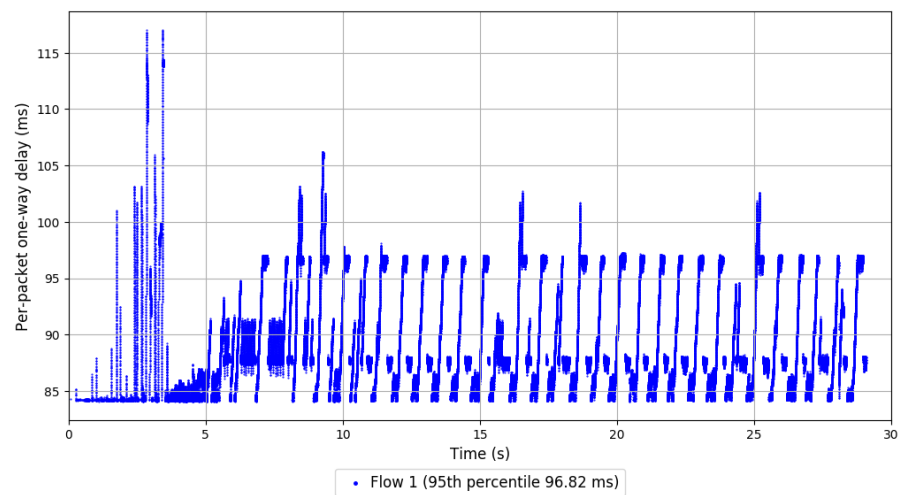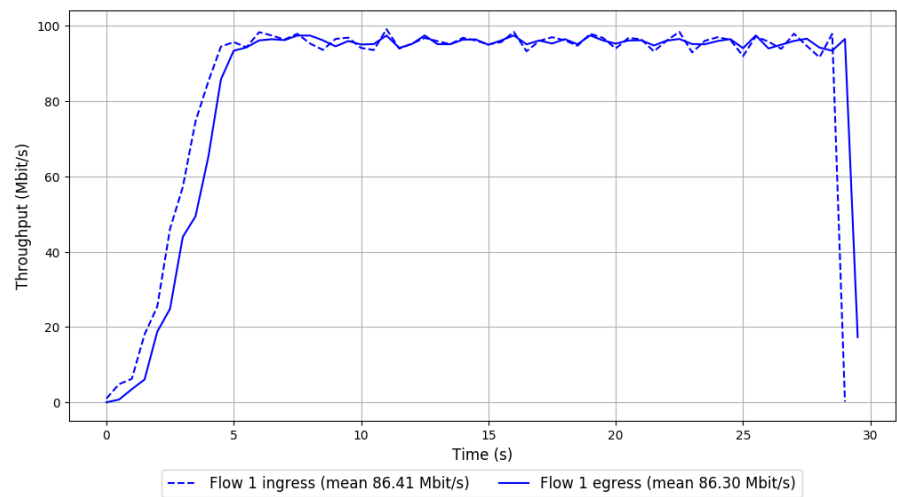
Run 1: Report of Indigo-MusesC5 — Data Link

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-18 19:22:32
End at: 2019-01-18 19:23:03
Local clock offset: -5.581 ms
Remote clock offset: 11.541 ms


# Below is generated by plot.py at 2019-01-18 20:58:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.20 Mbit/s
95th percentile per-packet one-way delay: 98.753 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 81.20 Mbit/s
95th percentile per-packet one-way delay: 98.753 ms
Loss rate: 0.13%
```
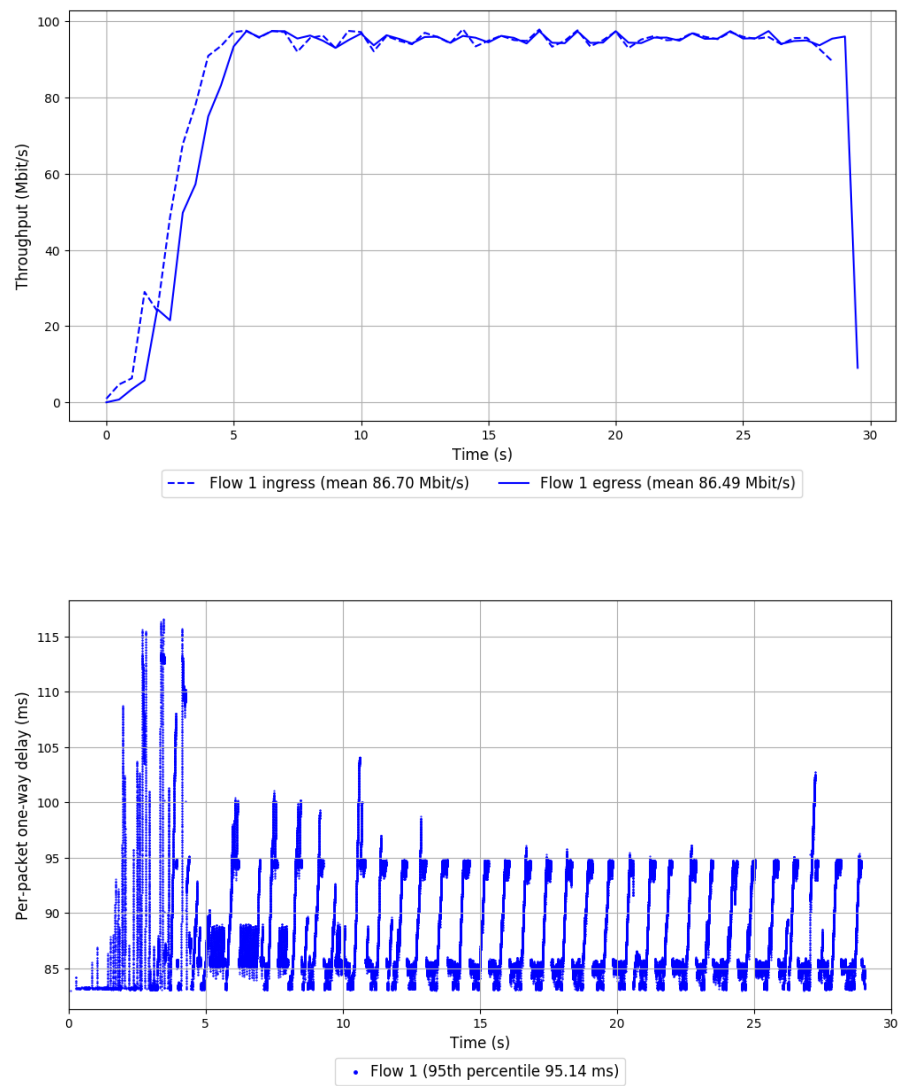
Run 2: Report of Indigo-MusesC5 — Data Link

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-18 19:47:10
End at: 2019-01-18 19:47:40
Local clock offset: -1.807 ms
Remote clock offset: 7.207 ms


# Below is generated by plot.py at 2019-01-18 20:59:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.30 Mbit/s
95th percentile per-packet one-way delay: 96.821 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 86.30 Mbit/s
95th percentile per-packet one-way delay: 96.821 ms
Loss rate: 0.11%
```
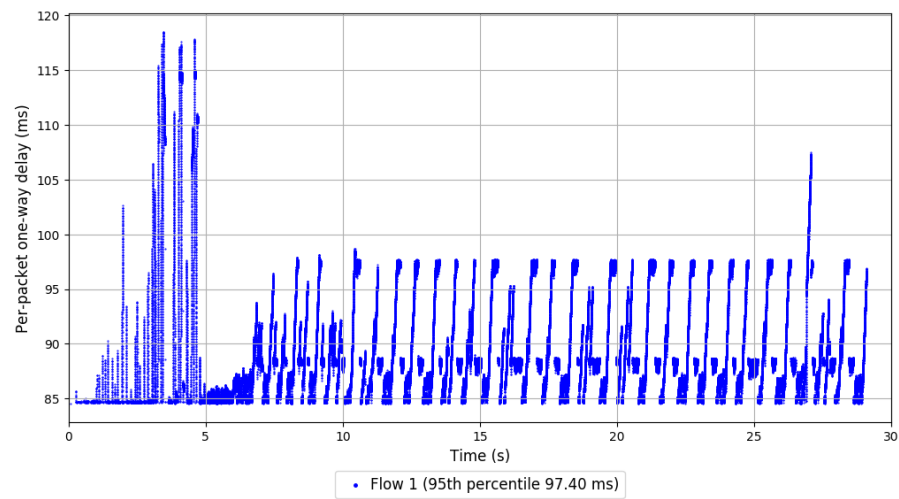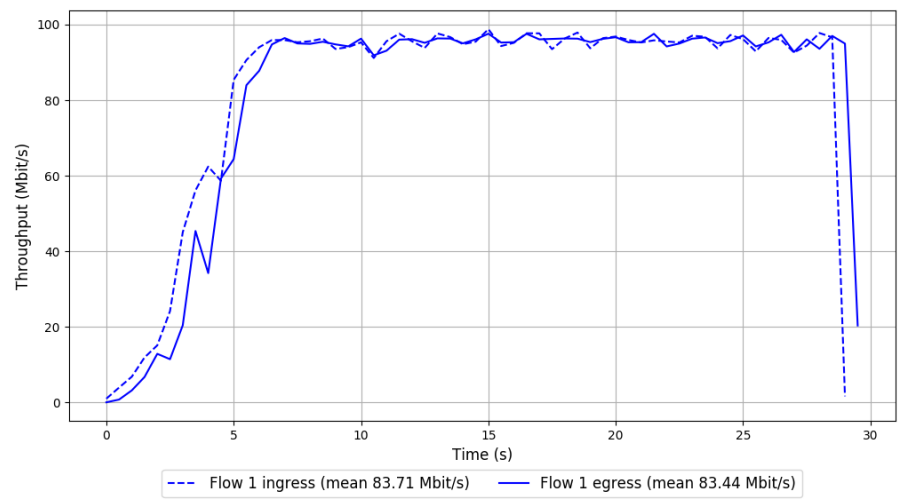
Run 3: Report of Indigo-MusesC5 — Data Link

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```
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-18 20:12:09
End at: 2019-01-18 20:12:39
Local clock offset: -0.501 ms
Remote clock offset: 4.716 ms


# Below is generated by plot.py at 2019-01-18 20:59:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 95.141 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 95.141 ms
Loss rate: 0.25%
```
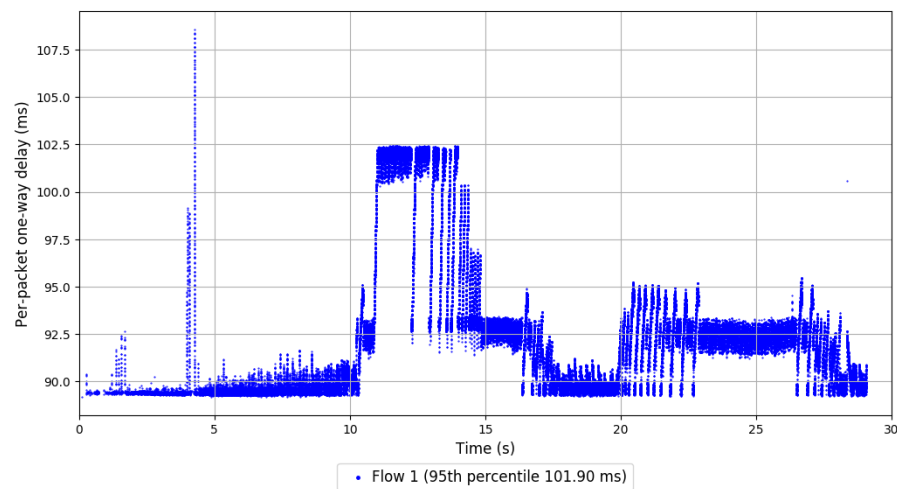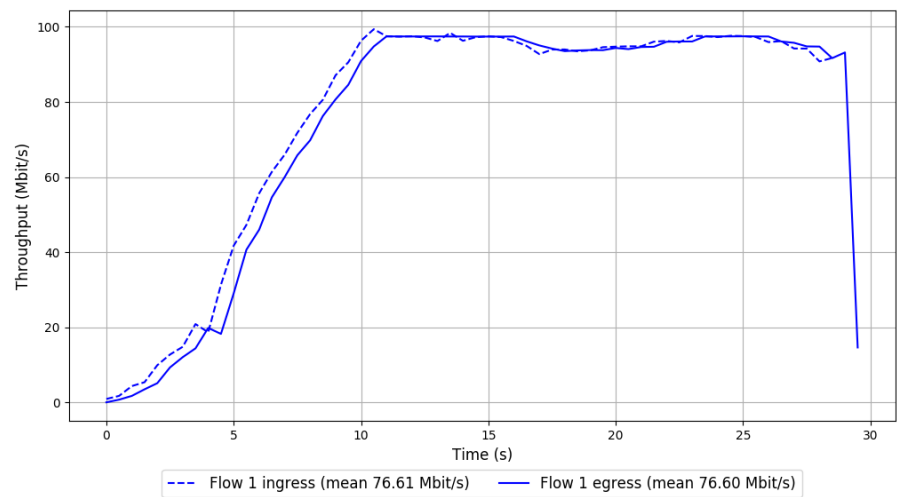
Run 4: Report of Indigo-MusesC5 — Data Link

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-18 20:36:46
End at: 2019-01-18 20:37:16
Local clock offset: -8.426 ms
Remote clock offset: 9.697 ms


# Below is generated by plot.py at 2019-01-18 20:59:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.44 Mbit/s
95th percentile per-packet one-way delay: 97.401 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 83.44 Mbit/s
95th percentile per-packet one-way delay: 97.401 ms
Loss rate: 0.29%
```
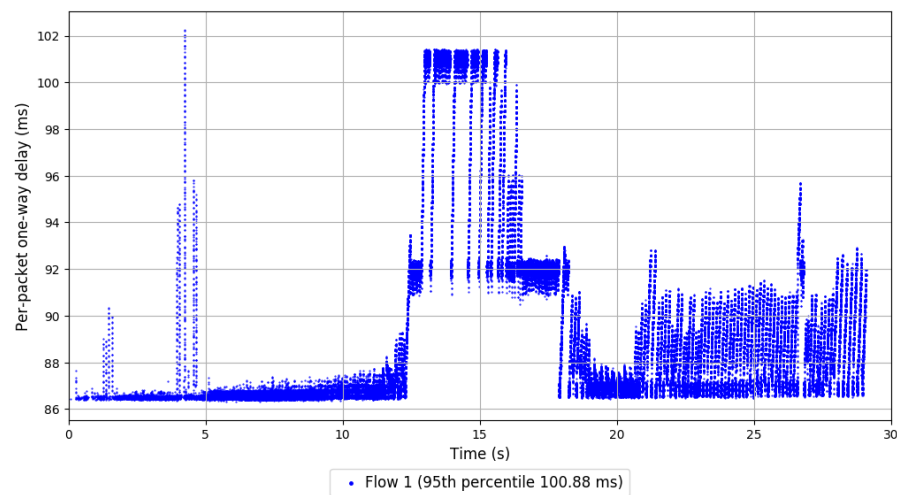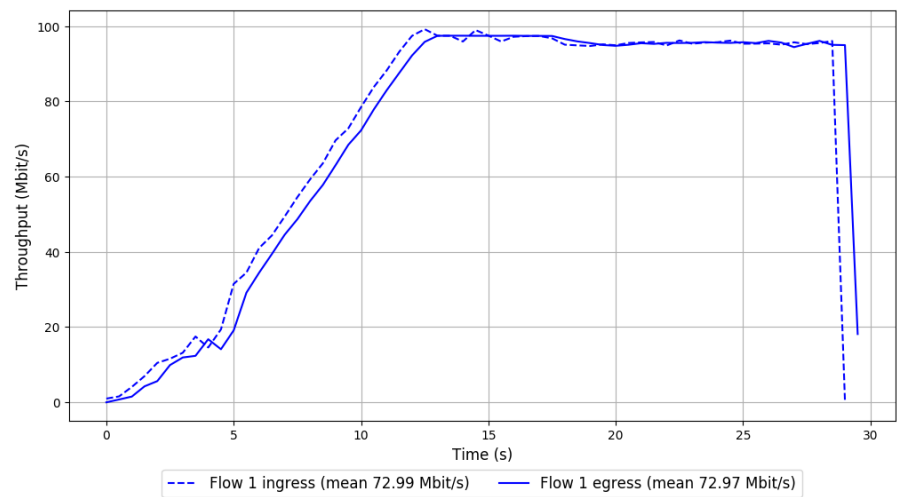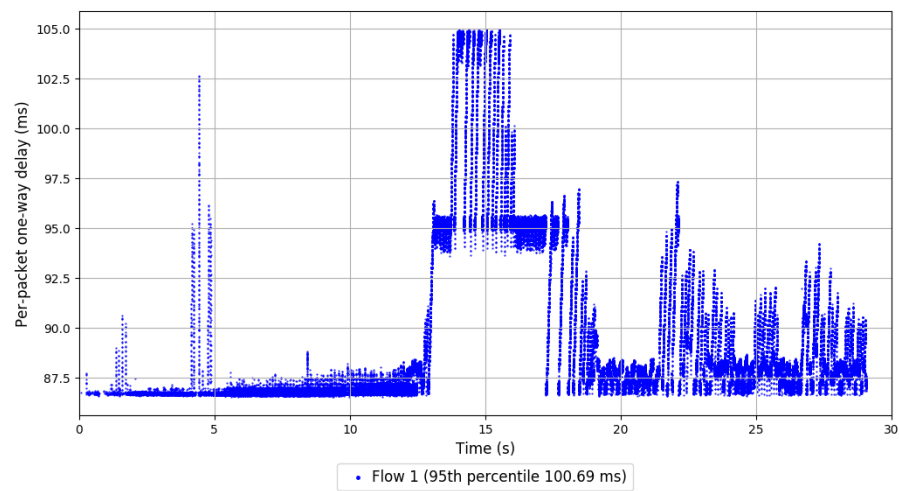
Run 5: Report of Indigo-MusesC5 — Data Link

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```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-18 19:04:53
End at: 2019-01-18 19:05:24
Local clock offset: -7.369 ms
Remote clock offset: 10.463 ms


# Below is generated by plot.py at 2019-01-18 20:59:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.60 Mbit/s
95th percentile per-packet one-way delay: 101.903 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 76.60 Mbit/s
95th percentile per-packet one-way delay: 101.903 ms
Loss rate: 0.01%
```
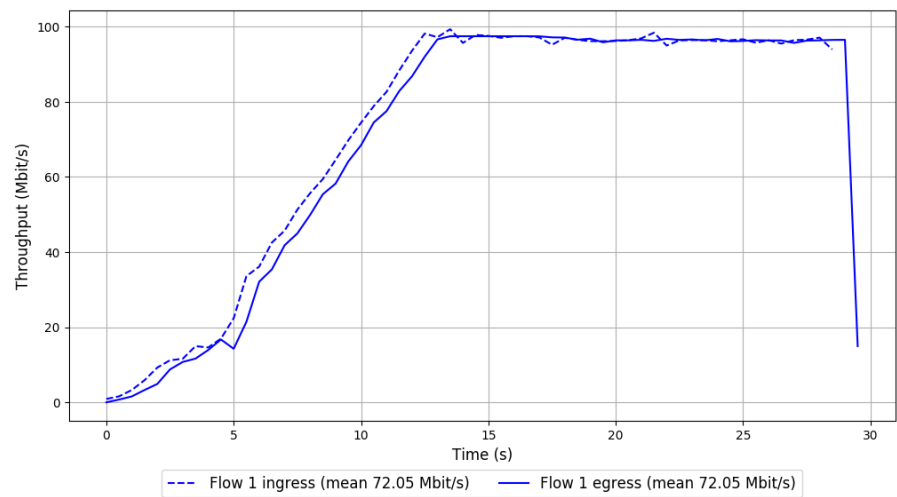
Run 1: Report of Indigo-MusesD — Data Link

```
Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-18 19:29:32
End at: 2019-01-18 19:30:02
Local clock offset: -4.225 ms
Remote clock offset: 9.304 ms


# Below is generated by plot.py at 2019-01-18 20:59:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.97 Mbit/s
95th percentile per-packet one-way delay: 100.881 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 72.97 Mbit/s
95th percentile per-packet one-way delay: 100.881 ms
Loss rate: 0.01%
```
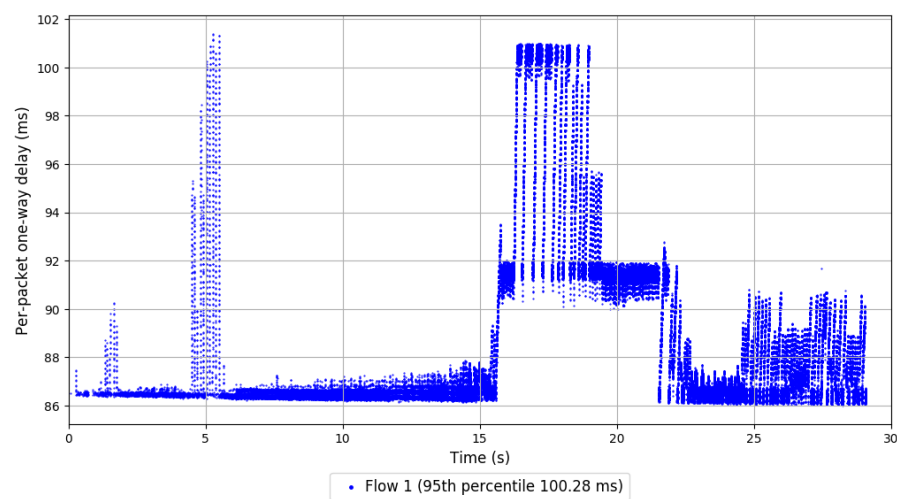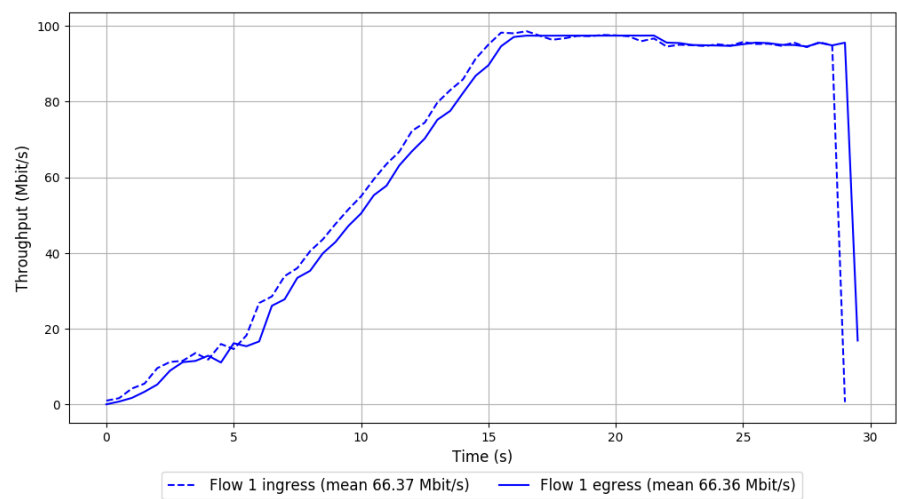
Run 2: Report of Indigo-MusesD — Data Link

```
Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-18 19:54:22
End at: 2019-01-18 19:54:52
Local clock offset: -1.412 ms
Remote clock offset: 7.927 ms


# Below is generated by plot.py at 2019-01-18 20:59:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.05 Mbit/s
95th percentile per-packet one-way delay: 100.691 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.05 Mbit/s
95th percentile per-packet one-way delay: 100.691 ms
Loss rate: 0.00%
```
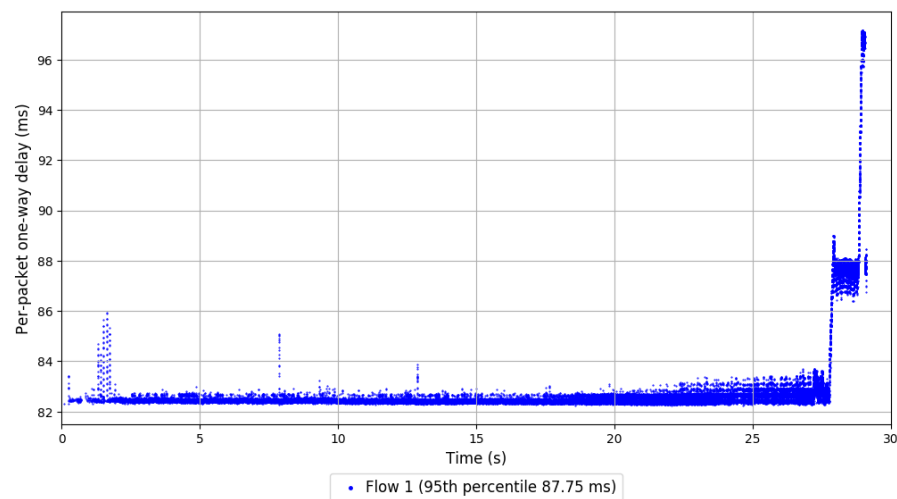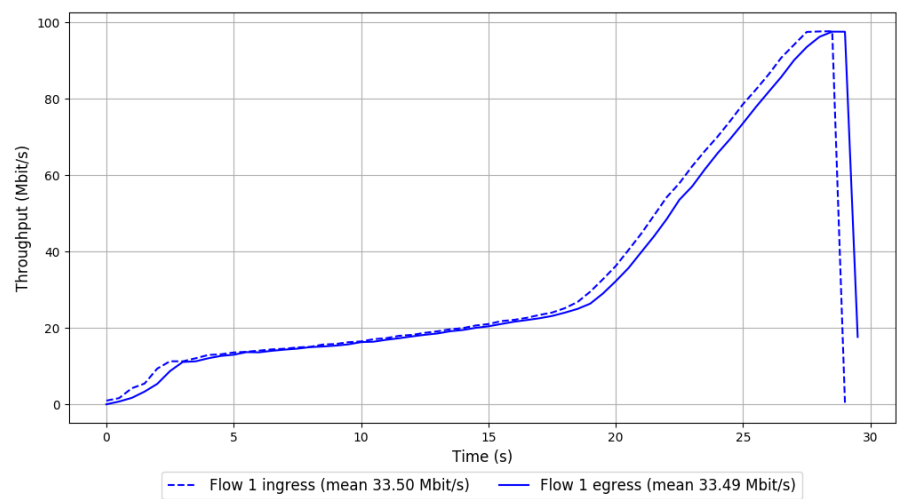
Run 3: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 72.05 Mbit/s)   Flow 1 egress (mean 72.05 Mbit/s)

Flow 1 (95th percentile 100.69 ms)

```
Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-18 20:19:08
End at: 2019-01-18 20:19:38
Local clock offset: -1.812 ms
Remote clock offset: 10.114 ms


# Below is generated by plot.py at 2019-01-18 20:59:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.36 Mbit/s
95th percentile per-packet one-way delay: 100.278 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.36 Mbit/s
95th percentile per-packet one-way delay: 100.278 ms
Loss rate: 0.00%
```
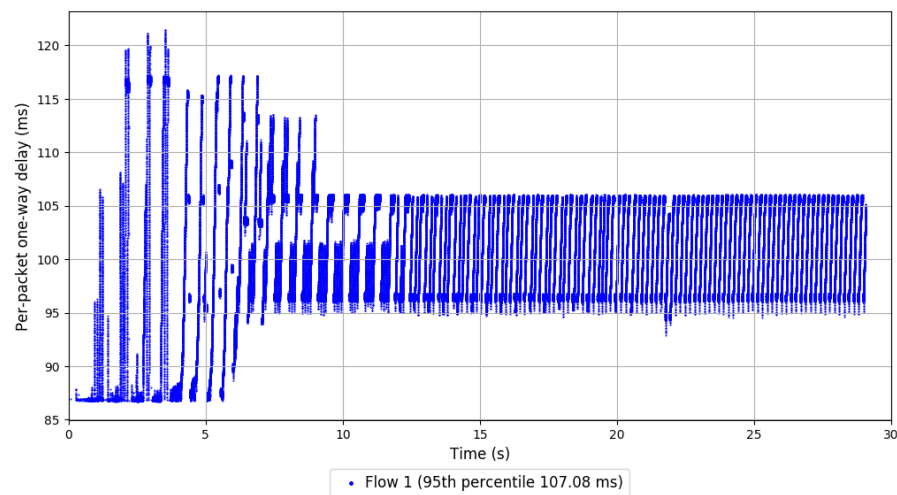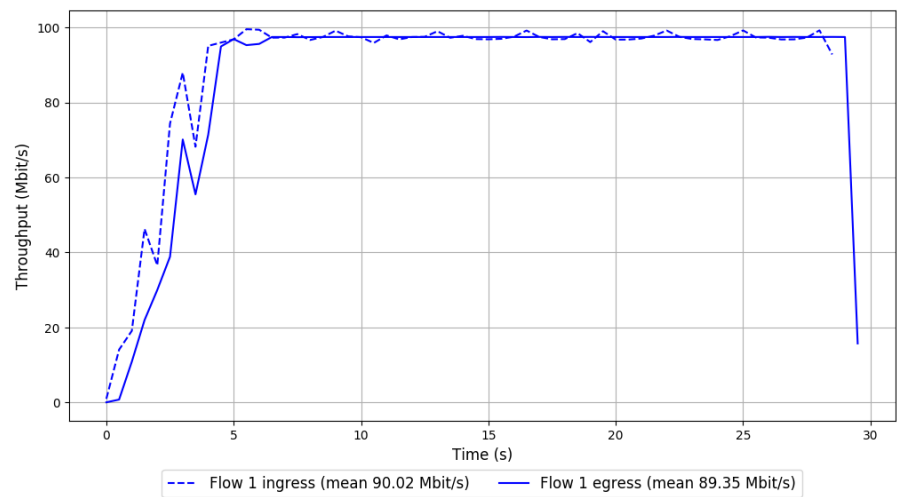
Run 4: Report of Indigo-MusesD — Data Link

```
Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-18 20:43:45
End at: 2019-01-18 20:44:15
Local clock offset: -10.18 ms
Remote clock offset: 4.096 ms


# Below is generated by plot.py at 2019-01-18 20:59:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 87.747 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 87.747 ms
Loss rate: 0.00%
```
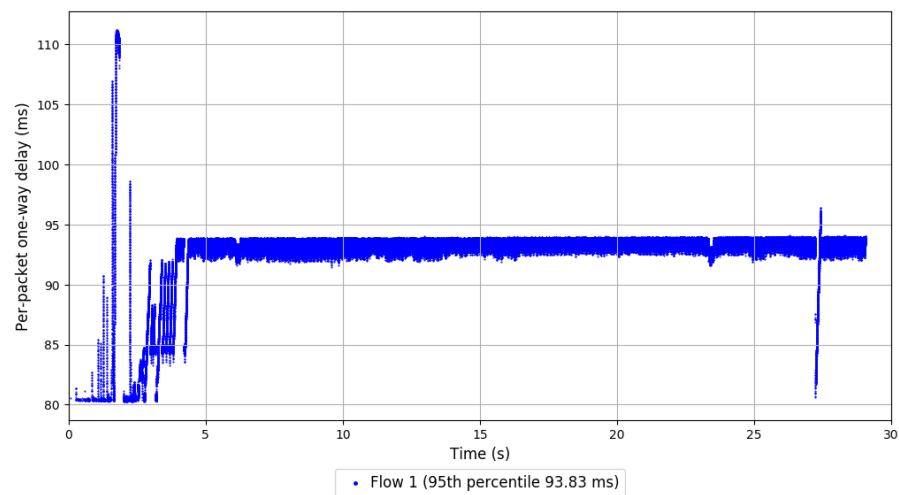
Run 5: Report of Indigo-MusesD — Data Link

```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-18 19:07:15
End at: 2019-01-18 19:07:45
Local clock offset: -6.713 ms
Remote clock offset: 9.348 ms

# Below is generated by plot.py at 2019-01-18 21:00:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.35 Mbit/s
95th percentile per-packet one-way delay: 107.079 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 89.35 Mbit/s
95th percentile per-packet one-way delay: 107.079 ms
Loss rate: 0.69%
```
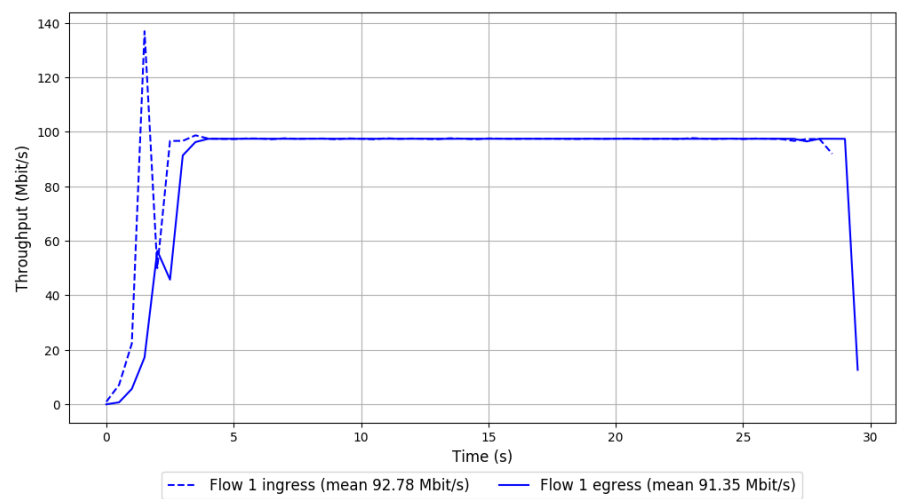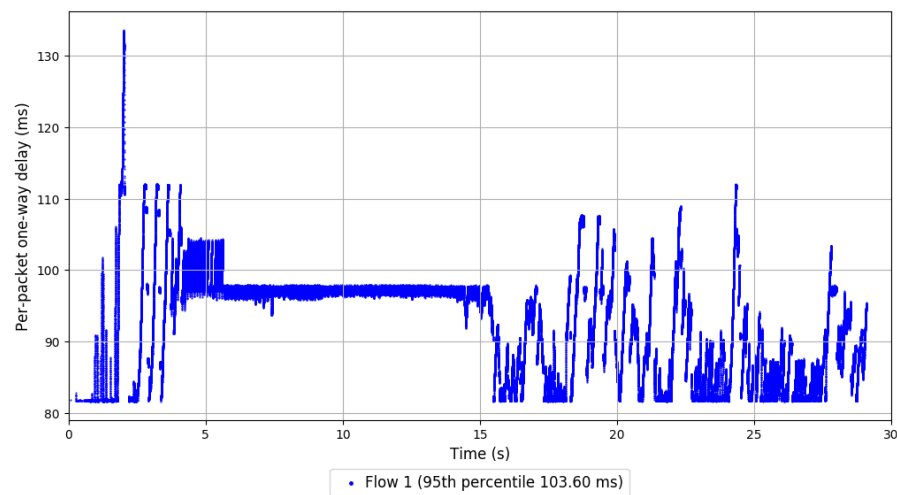
Run 1: Report of Indigo-MusesT — Data Link

```
Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-18 19:31:54
End at: 2019-01-18 19:32:24
Local clock offset: -3.156 ms
Remote clock offset: 3.799 ms


# Below is generated by plot.py at 2019-01-18 21:00:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.35 Mbit/s
95th percentile per-packet one-way delay: 93.833 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 91.35 Mbit/s
95th percentile per-packet one-way delay: 93.833 ms
Loss rate: 1.50%
```
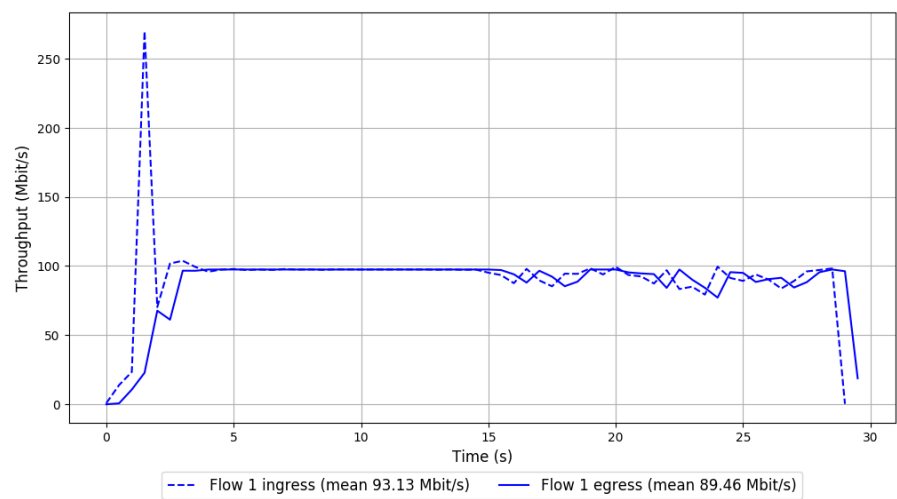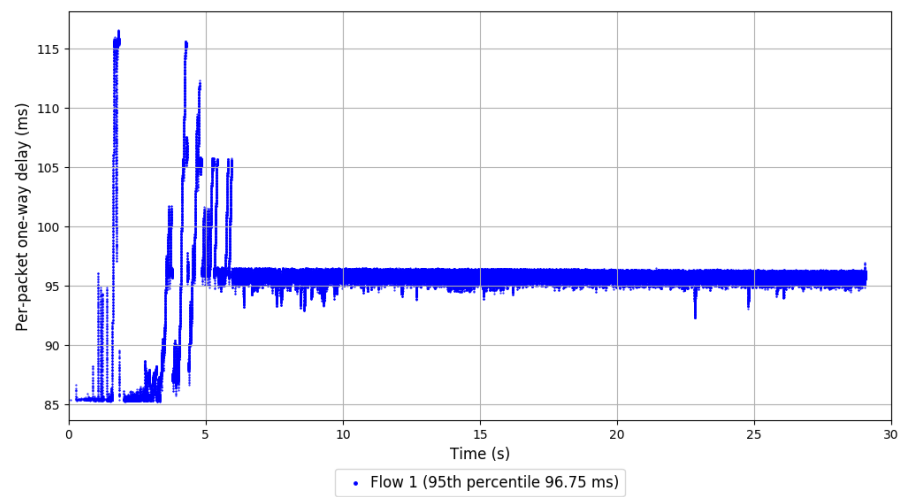
Run 2: Report of Indigo-MusesT — Data Link

```
Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-18 19:56:52
End at: 2019-01-18 19:57:22
Local clock offset: -1.276 ms
Remote clock offset: 2.879 ms


# Below is generated by plot.py at 2019-01-18 21:00:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.46 Mbit/s
95th percentile per-packet one-way delay: 103.603 ms
Loss rate: 3.89%
-- Flow 1:
Average throughput: 89.46 Mbit/s
95th percentile per-packet one-way delay: 103.603 ms
Loss rate: 3.89%
```

Run 3: Report of Indigo-MusesT — Data Link

```
Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-18 20:21:29
End at: 2019-01-18 20:21:59
Local clock offset: -3.541 ms
Remote clock offset: 8.912 ms


# Below is generated by plot.py at 2019-01-18 21:00:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.41 Mbit/s
95th percentile per-packet one-way delay: 96.749 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 91.41 Mbit/s
95th percentile per-packet one-way delay: 96.749 ms
Loss rate: 1.79%
```
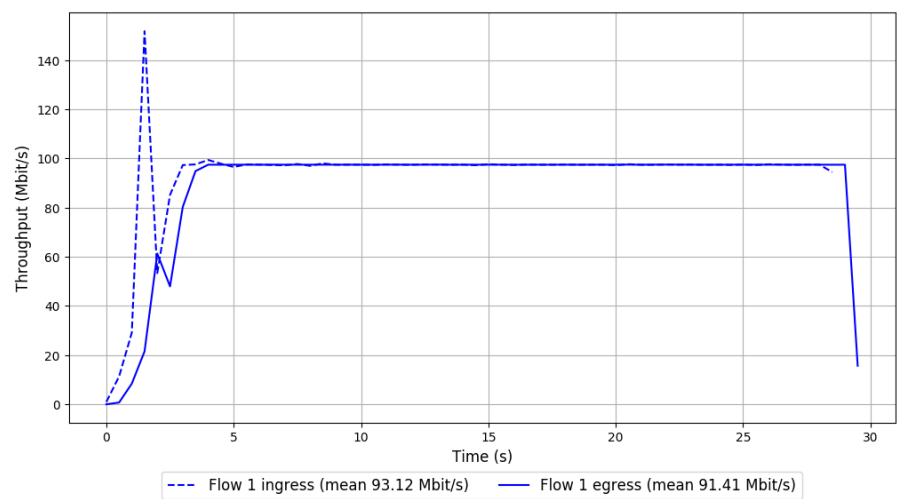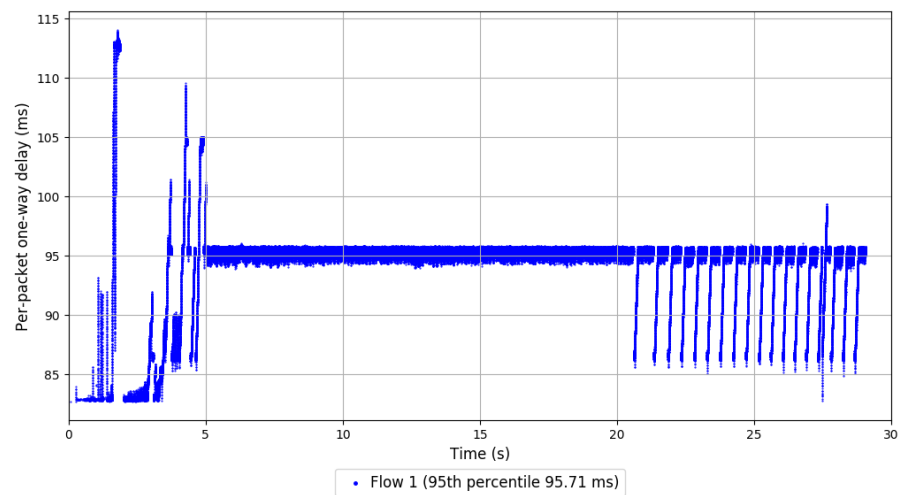
Run 4: Report of Indigo-MusesT — Data Link

```
Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-18 20:46:05
End at: 2019-01-18 20:46:35
Local clock offset: -9.71 ms
Remote clock offset: 6.803 ms


# Below is generated by plot.py at 2019-01-18 21:00:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.57 Mbit/s
95th percentile per-packet one-way delay: 95.707 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 91.57 Mbit/s
95th percentile per-packet one-way delay: 95.707 ms
Loss rate: 1.51%
```
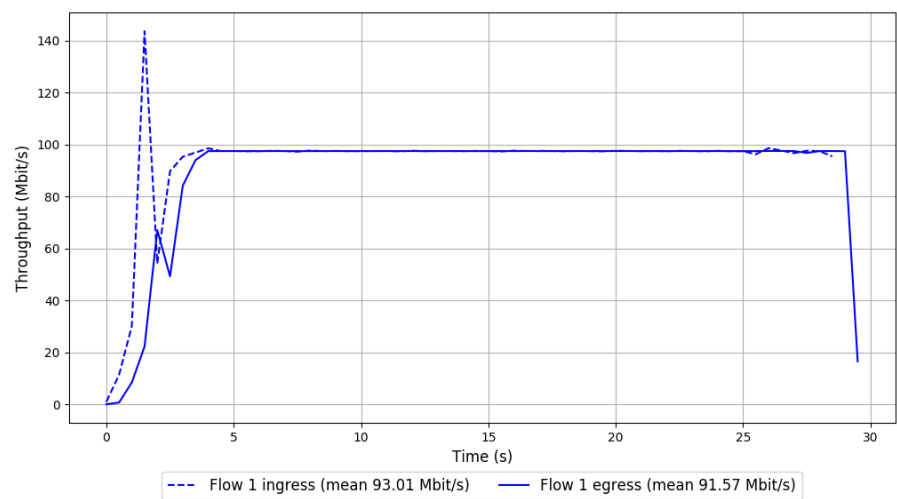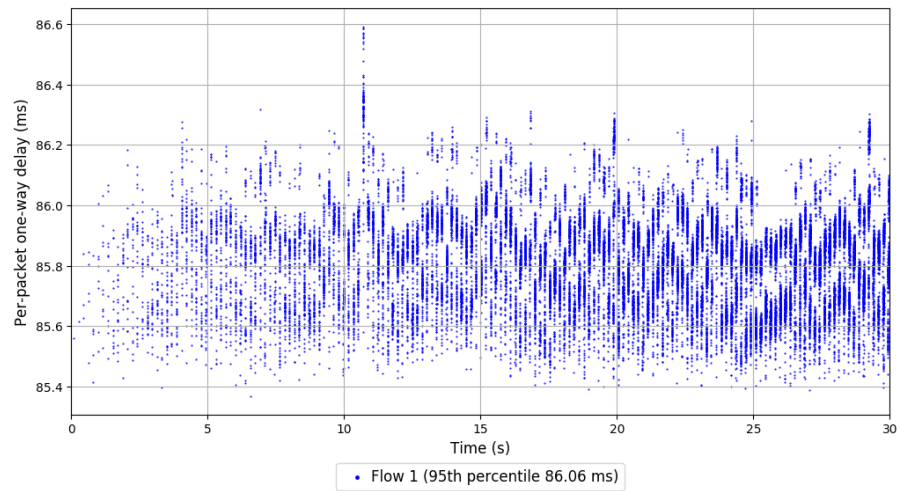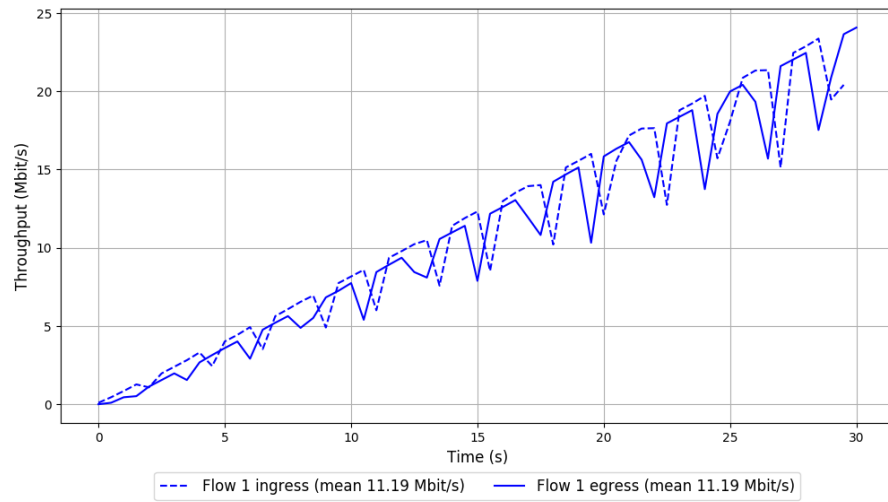
Run 5: Report of Indigo-MusesT — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2019-01-18 18:59:05
End at: 2019-01-18 18:59:35
Local clock offset: -6.607 ms
Remote clock offset: 8.979 ms


# Below is generated by plot.py at 2019-01-18 21:00:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.19 Mbit/s
95th percentile per-packet one-way delay: 86.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.19 Mbit/s
95th percentile per-packet one-way delay: 86.060 ms
Loss rate: 0.00%
```
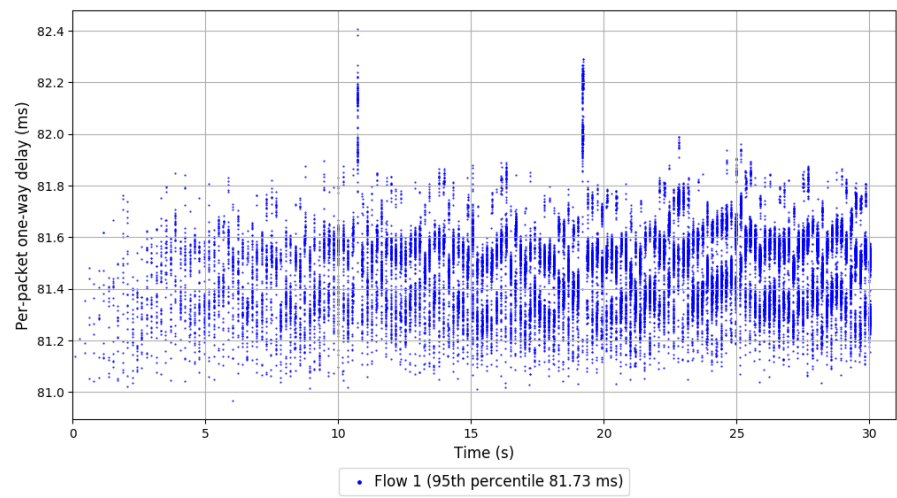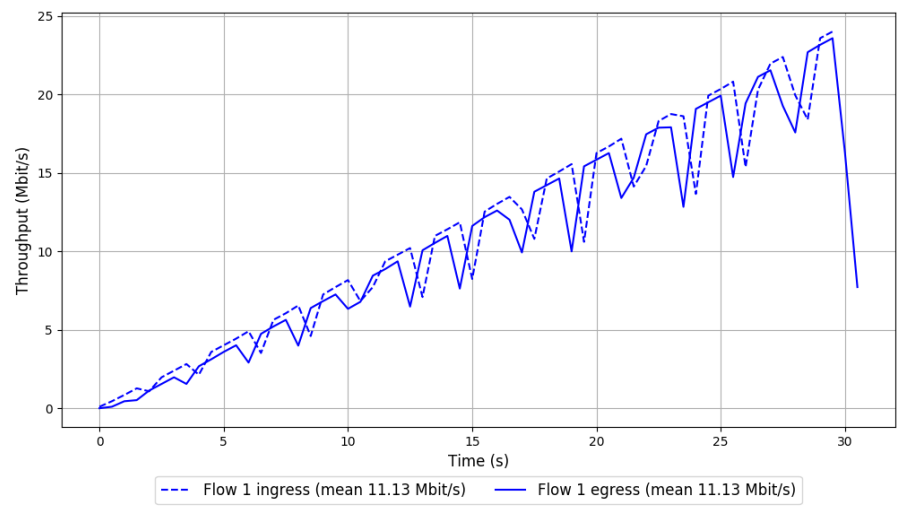
Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2019-01-18 19:23:44
End at: 2019-01-18 19:24:14
Local clock offset: -4.487 ms
Remote clock offset: 5.244 ms


# Below is generated by plot.py at 2019-01-18 21:00:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 81.730 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 81.730 ms
Loss rate: 0.00%
```
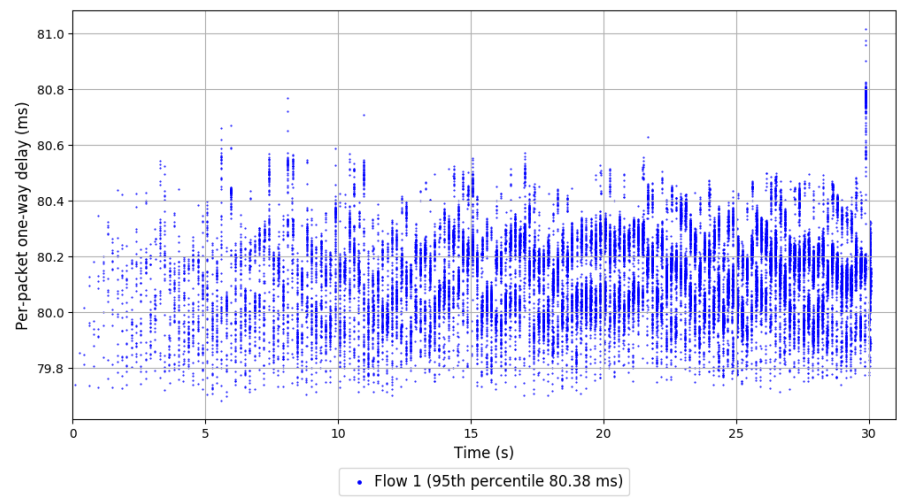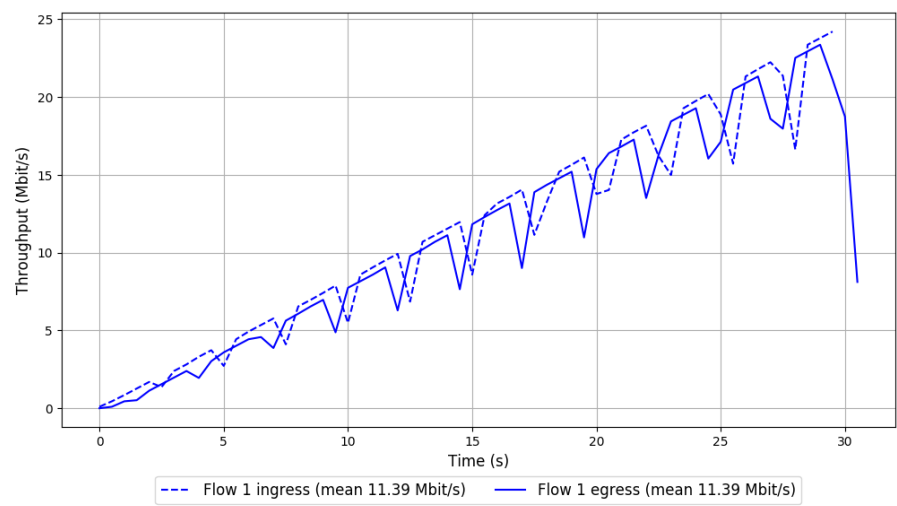
Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2019-01-18 19:48:22
End at: 2019-01-18 19:48:52
Local clock offset: -2.501 ms
Remote clock offset: 2.099 ms


# Below is generated by plot.py at 2019-01-18 21:00:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 80.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 80.380 ms
Loss rate: 0.00%
```
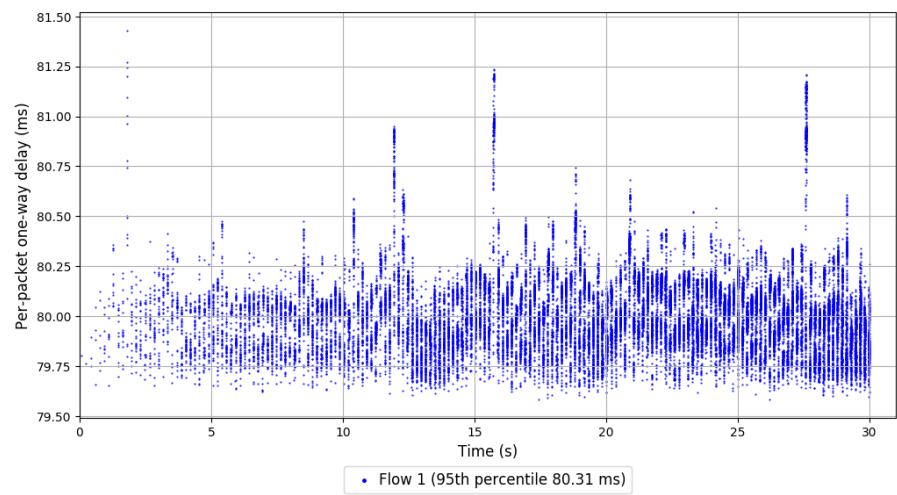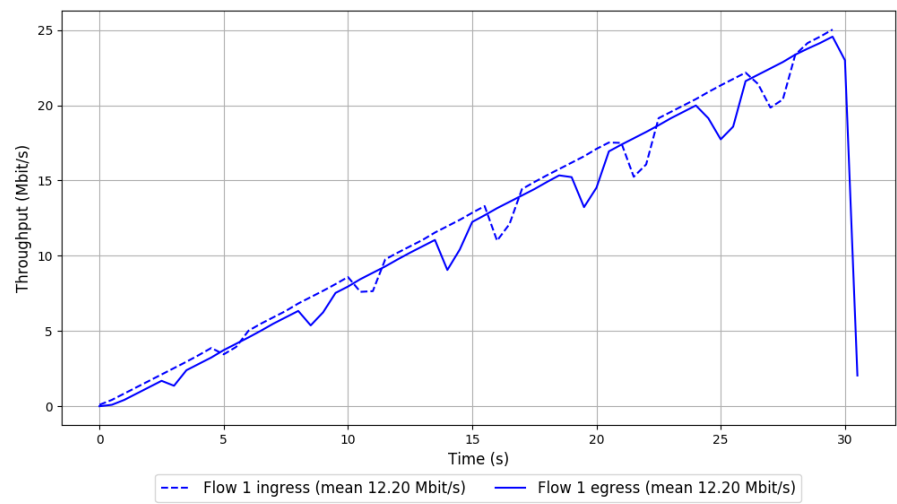
Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2019-01-18 20:13:20
End at: 2019-01-18 20:13:50
Local clock offset: -1.255 ms
Remote clock offset: 3.629 ms

# Below is generated by plot.py at 2019-01-18 21:00:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.20 Mbit/s
95th percentile per-packet one-way delay: 80.308 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.20 Mbit/s
95th percentile per-packet one-way delay: 80.308 ms
Loss rate: 0.00%
```
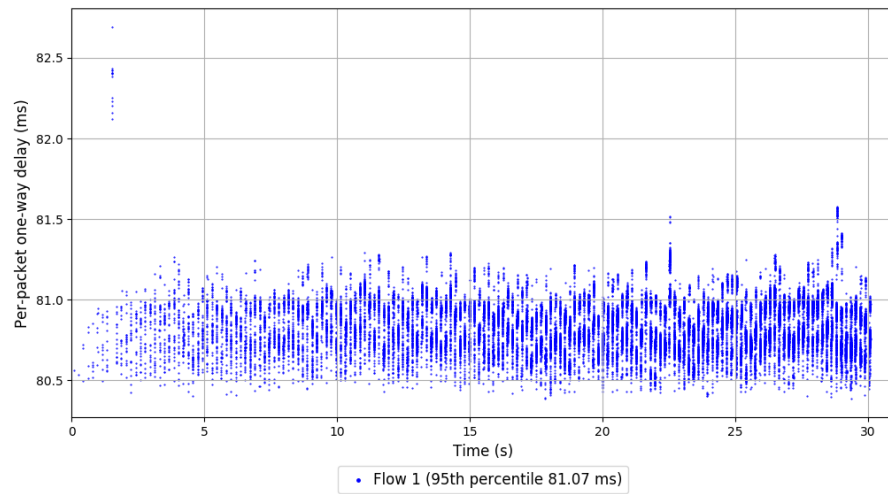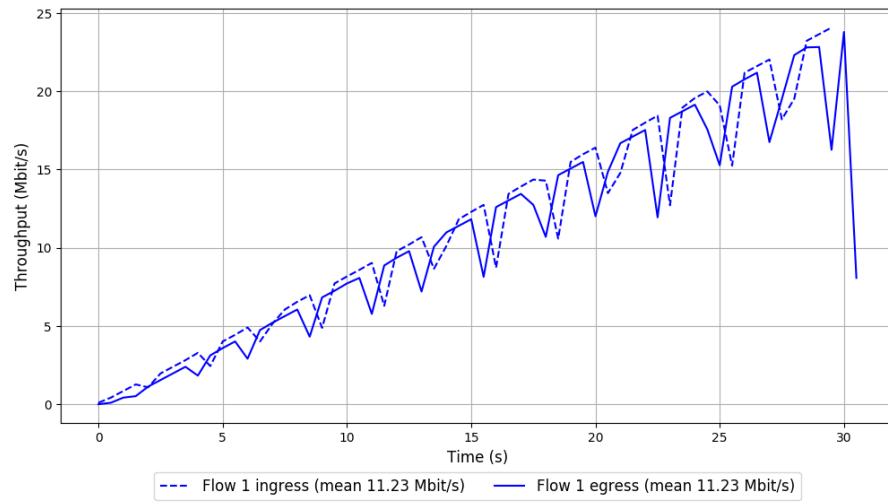
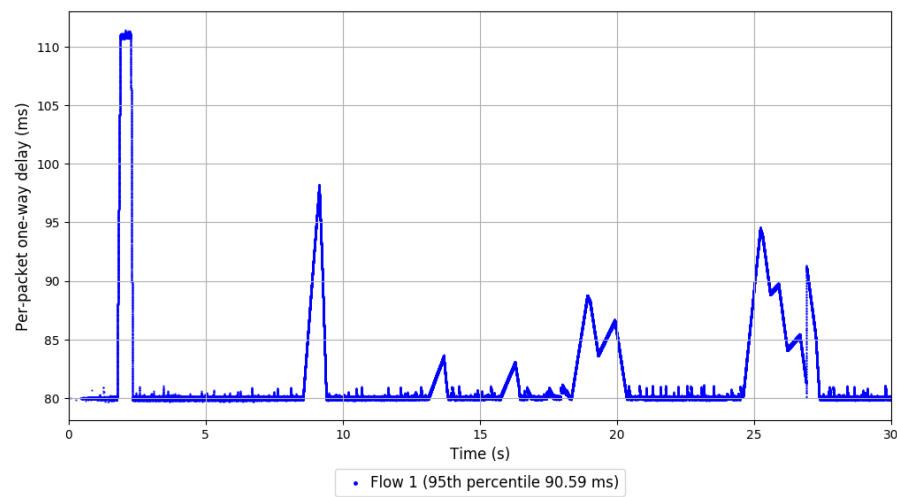Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2019-01-18 20:37:57
End at: 2019-01-18 20:38:27
Local clock offset: -8.605 ms
Remote clock offset: 3.585 ms


# Below is generated by plot.py at 2019-01-18 21:00:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 81.067 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 81.067 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 11.23 Mbit/s) — — — Flow 1 egress (mean 11.23 Mbit/s)

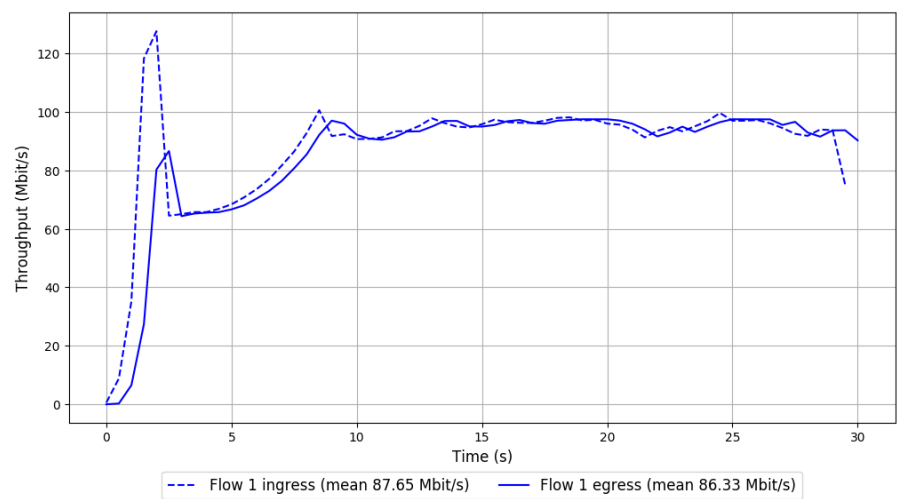Flow 1 (95th percentile 81.07 ms)

```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-18 19:13:08
End at: 2019-01-18 19:13:38
Local clock offset: -7.445 ms
Remote clock offset: 4.832 ms


# Below is generated by plot.py at 2019-01-18 21:00:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.33 Mbit/s
95th percentile per-packet one-way delay: 90.588 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 86.33 Mbit/s
95th percentile per-packet one-way delay: 90.588 ms
Loss rate: 1.51%
```

Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2019-01-18 19:37:47
End at: 2019-01-18 19:38:17
Local clock offset: -3.262 ms
Remote clock offset: 2.876 ms


# Below is generated by plot.py at 2019-01-18 21:00:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.54 Mbit/s
95th percentile per-packet one-way delay: 94.460 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 86.54 Mbit/s
95th percentile per-packet one-way delay: 94.460 ms
Loss rate: 1.51%
```
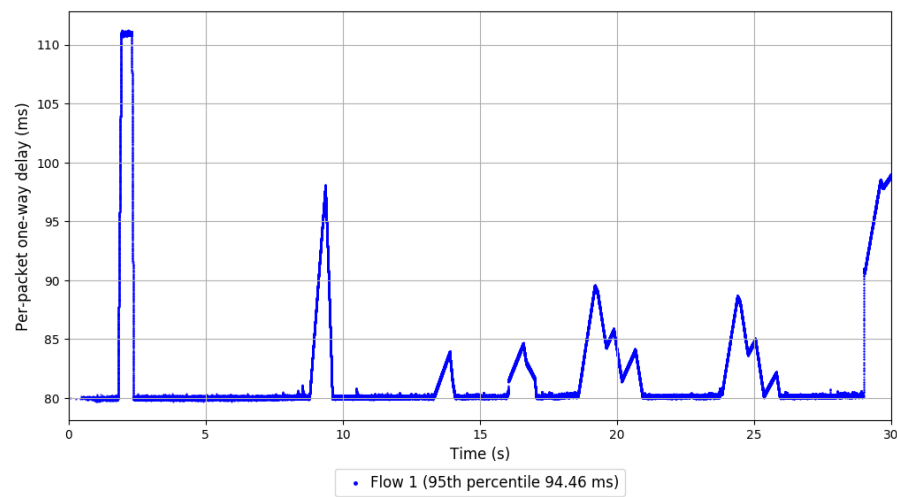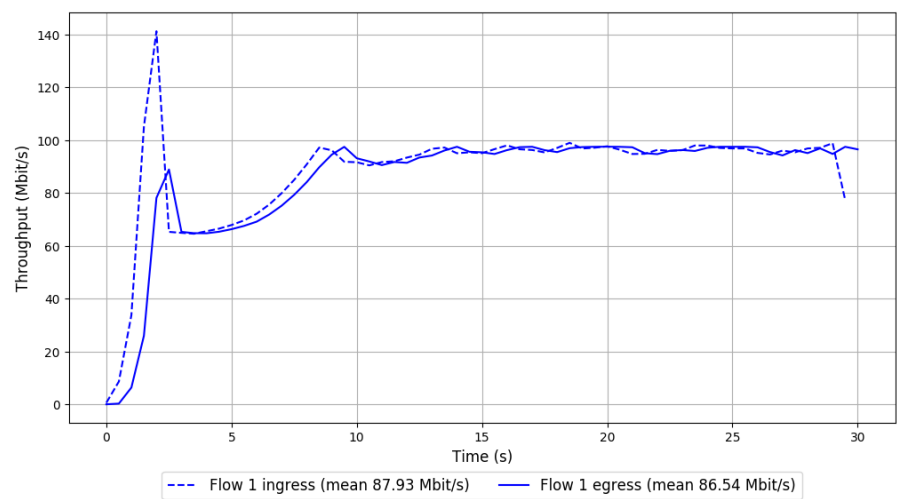
Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2019-01-18 20:02:45
End at: 2019-01-18 20:03:15
Local clock offset: -1.724 ms
Remote clock offset: 2.283 ms


# Below is generated by plot.py at 2019-01-18 21:00:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 91.753 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 91.753 ms
Loss rate: 1.50%
```
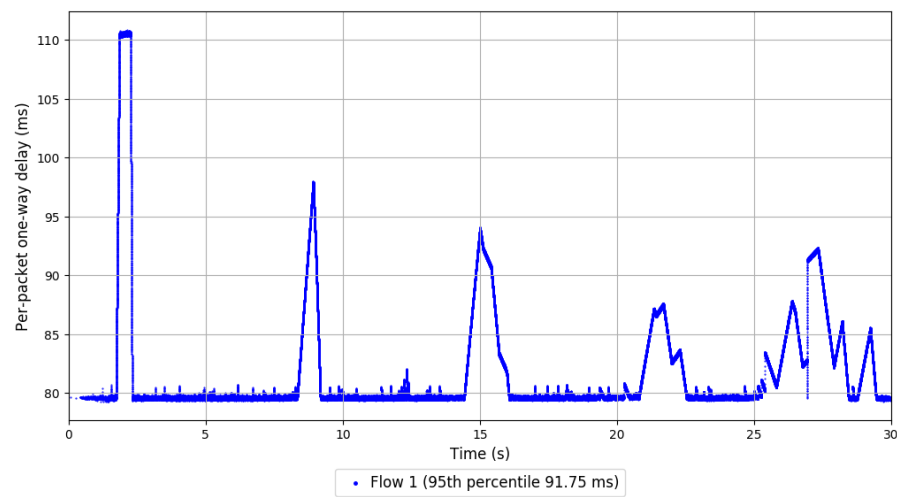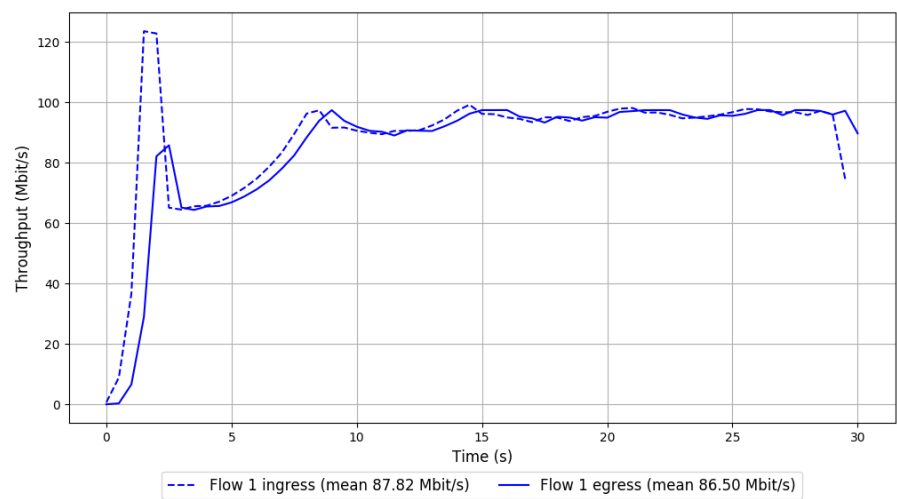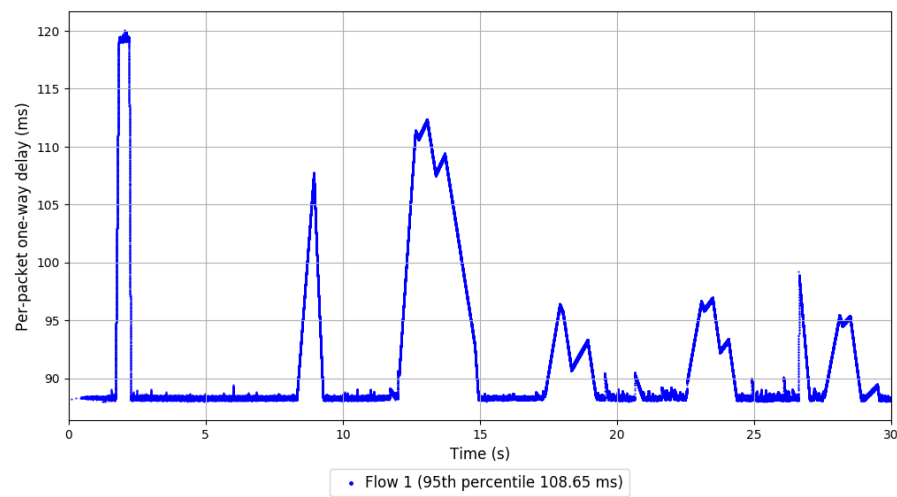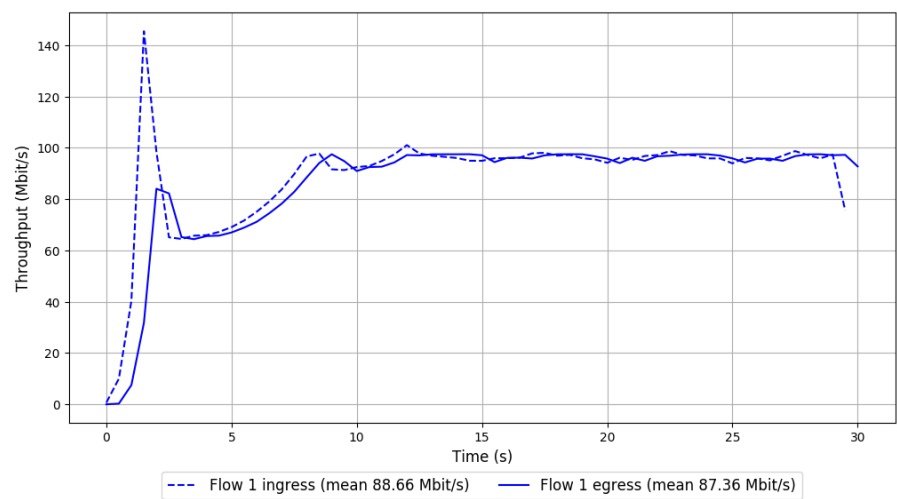
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 87.82 Mbit/s) — Flow 1 egress (mean 86.50 Mbit/s)

Flow 1 (95th percentile 91.75 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2019-01-18 20:27:22
End at: 2019-01-18 20:27:52
Local clock offset: -6.893 ms
Remote clock offset: 10.341 ms


# Below is generated by plot.py at 2019-01-18 21:01:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.36 Mbit/s
95th percentile per-packet one-way delay: 108.647 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 87.36 Mbit/s
95th percentile per-packet one-way delay: 108.647 ms
Loss rate: 1.46%
```
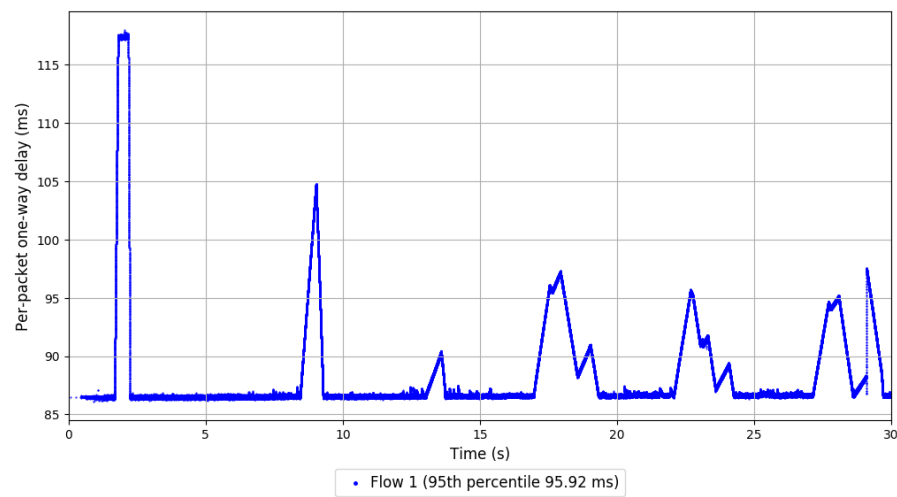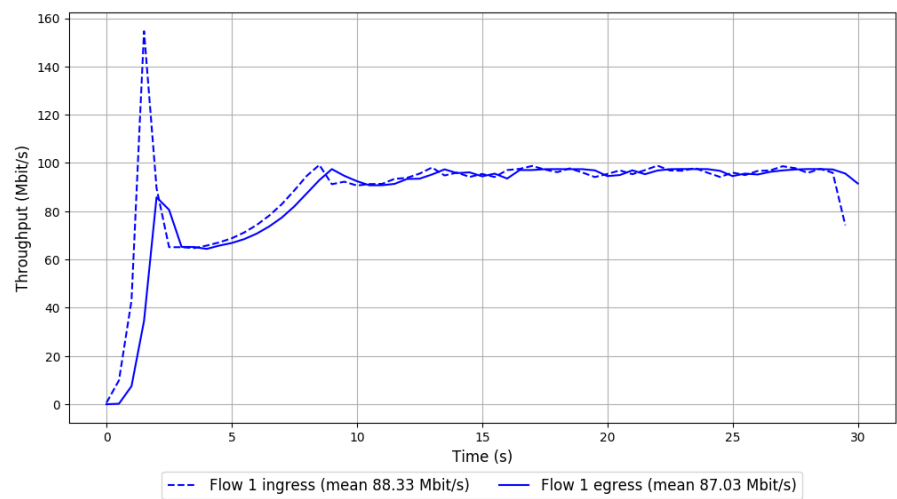
Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 88.66 Mbit/s)   Flow 1 egress (mean 87.36 Mbit/s)

Flow 1 (95th percentile 108.65 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2019-01-18 20:51:57
End at: 2019-01-18 20:52:27
Local clock offset: -8.444 ms
Remote clock offset: 6.375 ms


# Below is generated by plot.py at 2019-01-18 21:01:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.03 Mbit/s
95th percentile per-packet one-way delay: 95.925 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 87.03 Mbit/s
95th percentile per-packet one-way delay: 95.925 ms
Loss rate: 1.48%
```

Run 5: Report of PCC-Allegro — Data Link

```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-18 19:01:25
End at: 2019-01-18 19:01:55
Local clock offset: -6.632 ms
Remote clock offset: 9.242 ms
```

Run 1: Report of PCC-Expr — Data Link
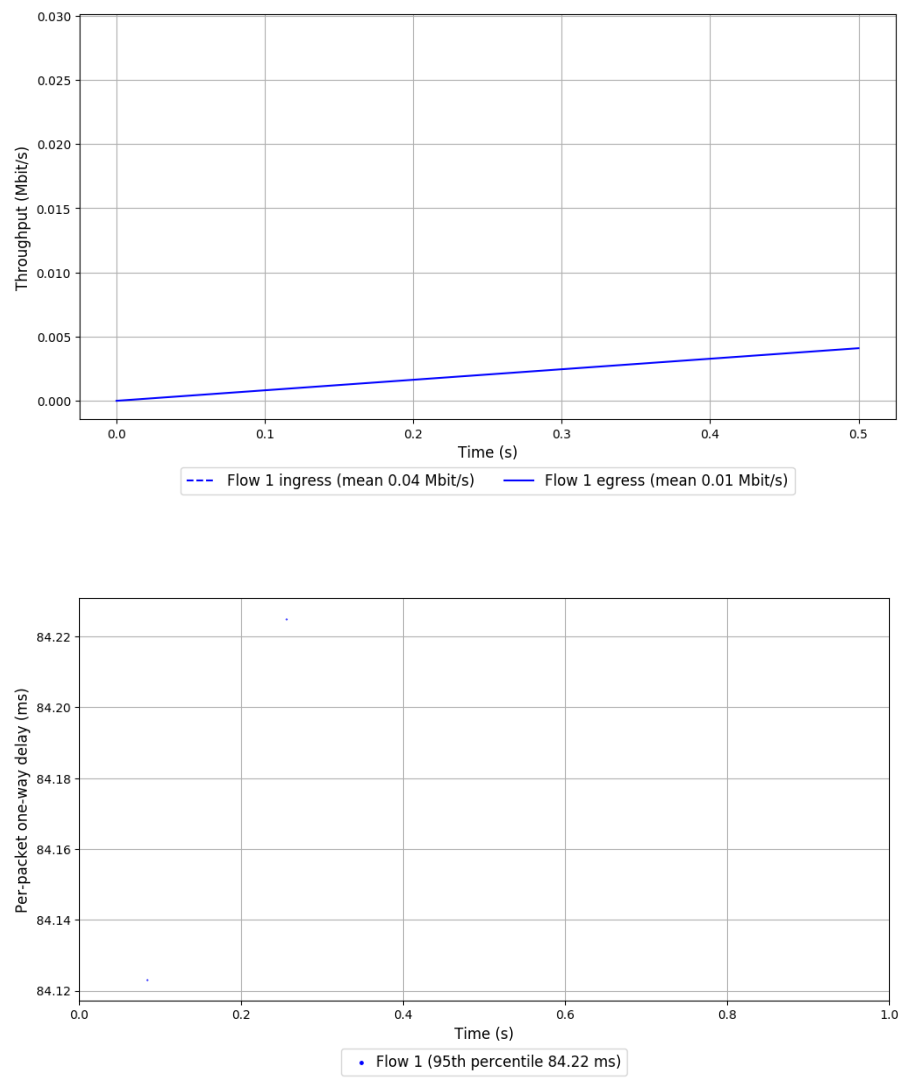
```
Run 2: Statistics of PCC-Expr

Start at: 2019-01-18 19:26:04
End at: 2019-01-18 19:26:34
Local clock offset: -3.992 ms
Remote clock offset: 10.41 ms
```

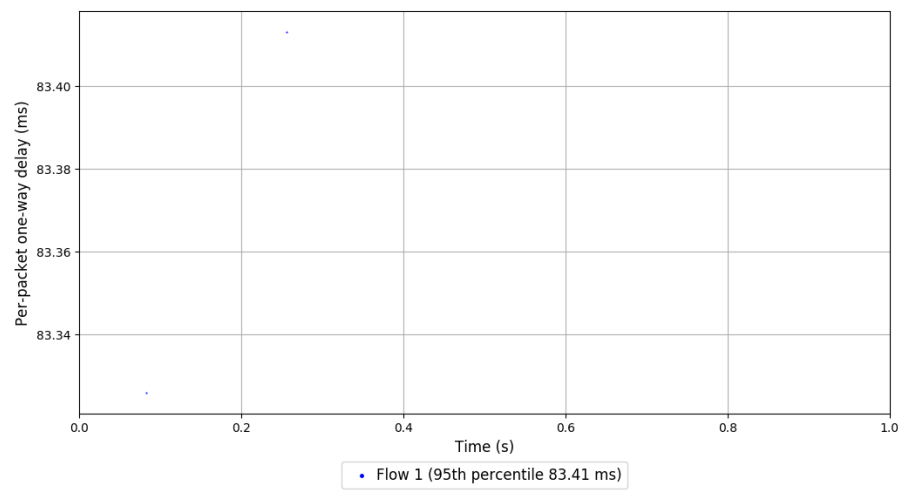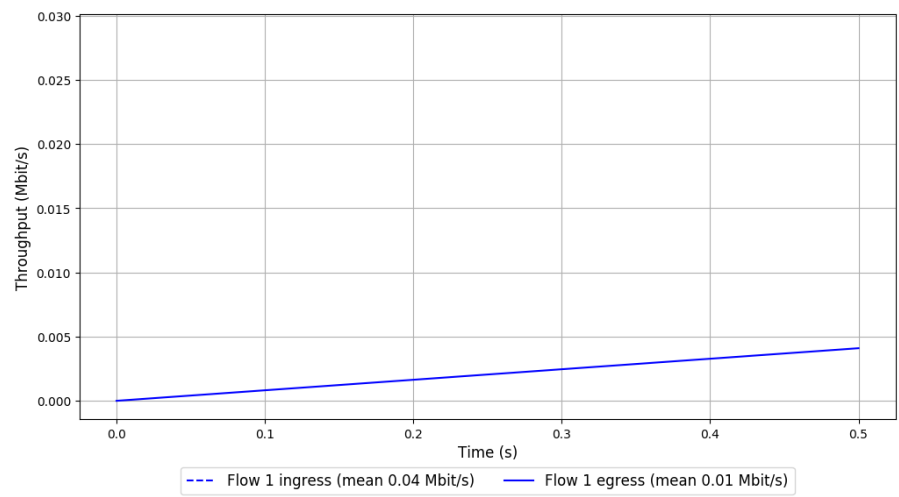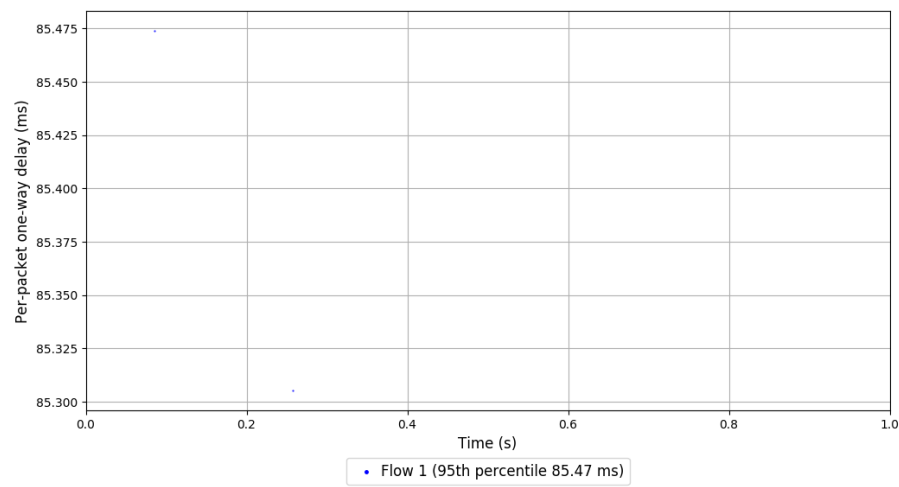Run 2: Report of PCC-Expr — Data Link

```
Run 3: Statistics of PCC-Expr

Start at: 2019-01-18 19:50:42
End at: 2019-01-18 19:51:12
Local clock offset: -1.655 ms
Remote clock offset: 5.786 ms
```

Run 3: Report of PCC-Expr — Data Link
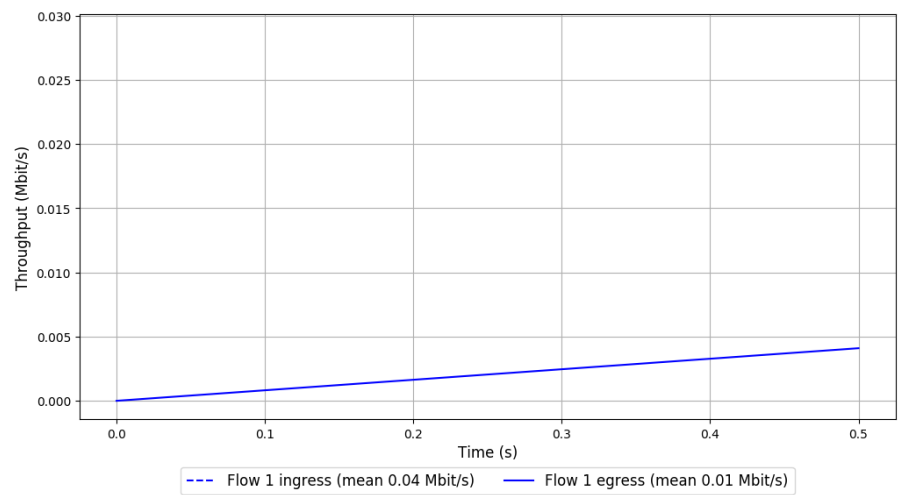
```
Run 4: Statistics of PCC-Expr

Start at: 2019-01-18 20:15:40
End at: 2019-01-18 20:16:10
Local clock offset: -0.308 ms
Remote clock offset: 9.504 ms
```

Run 4: Report of PCC-Expr — Data Link
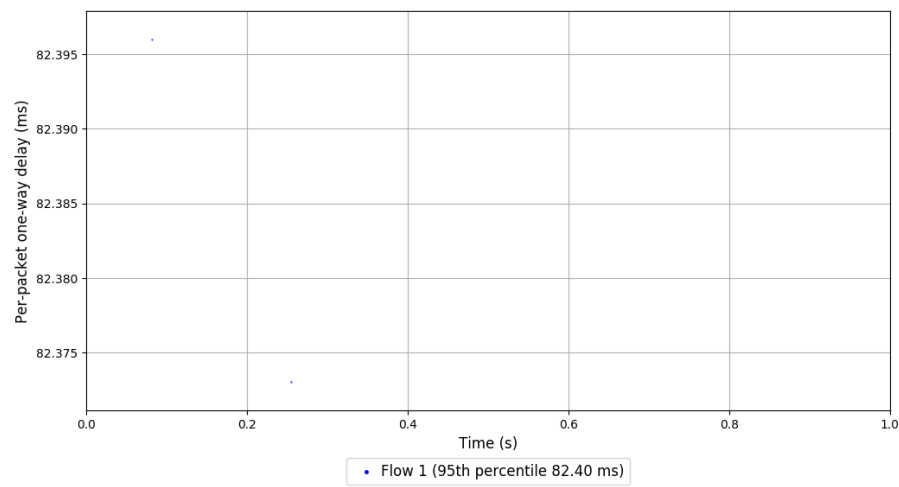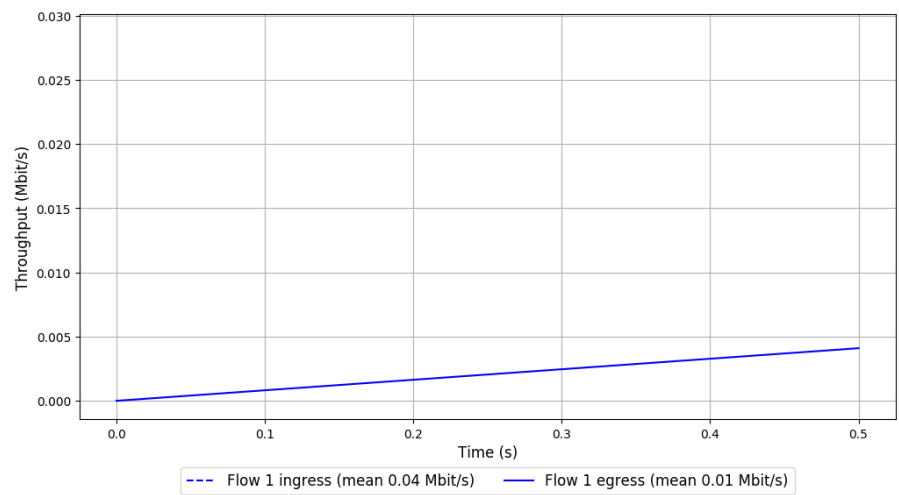
```
Run 5: Statistics of PCC-Expr

Start at: 2019-01-18 20:40:17
End at: 2019-01-18 20:40:47
Local clock offset: -9.722 ms
Remote clock offset: 4.578 ms
```

Run 5: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 0.04 Mbit/s) --- Flow 1 egress (mean 0.01 Mbit/s)

• Flow 1 (95th percentile 82.40 ms)

```
Run 1: Statistics of QUIC Cubic

Start at: 2019-01-18 19:09:40
End at: 2019-01-18 19:10:10
Local clock offset: -6.67 ms
Remote clock offset: 4.616 ms

# Below is generated by plot.py at 2019-01-18 21:01:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.15 Mbit/s
95th percentile per-packet one-way delay: 96.166 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 69.15 Mbit/s
95th percentile per-packet one-way delay: 96.166 ms
Loss rate: 0.37%
```
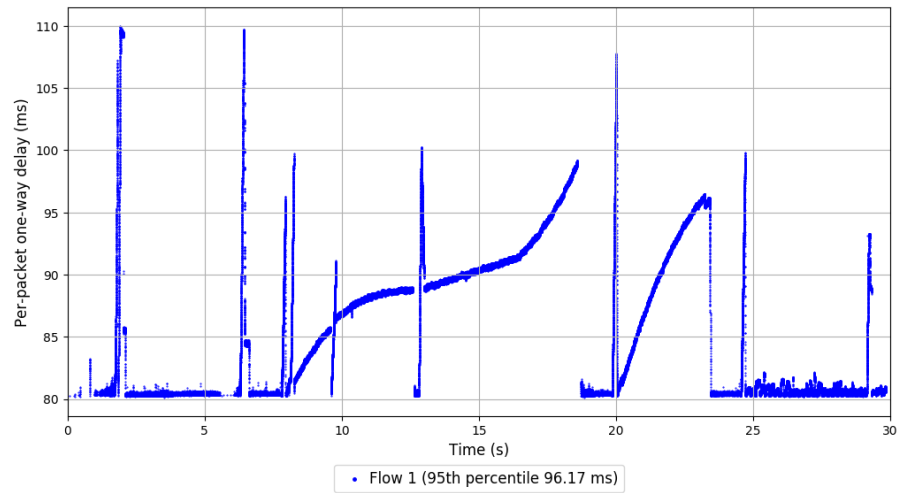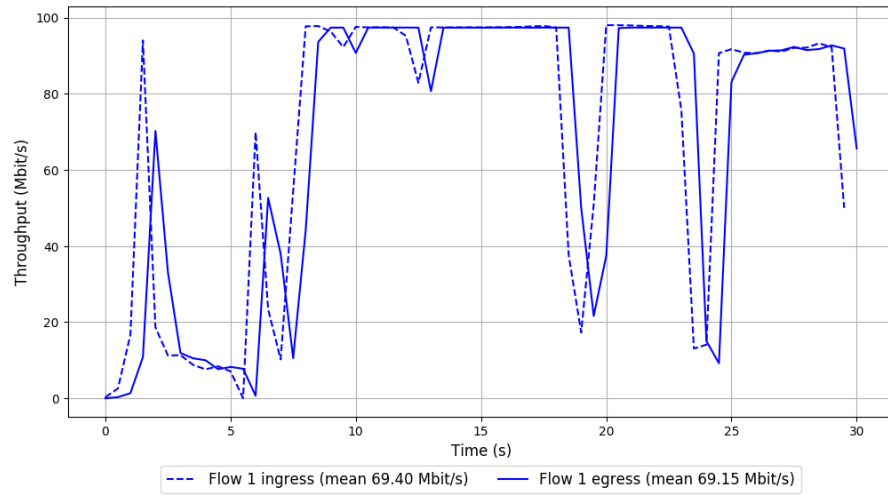
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2019-01-18 19:34:19
End at: 2019-01-18 19:34:49
Local clock offset: -3.62 ms
Remote clock offset: 3.416 ms


# Below is generated by plot.py at 2019-01-18 21:01:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.69 Mbit/s
95th percentile per-packet one-way delay: 102.847 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 73.69 Mbit/s
95th percentile per-packet one-way delay: 102.847 ms
Loss rate: 0.34%
```
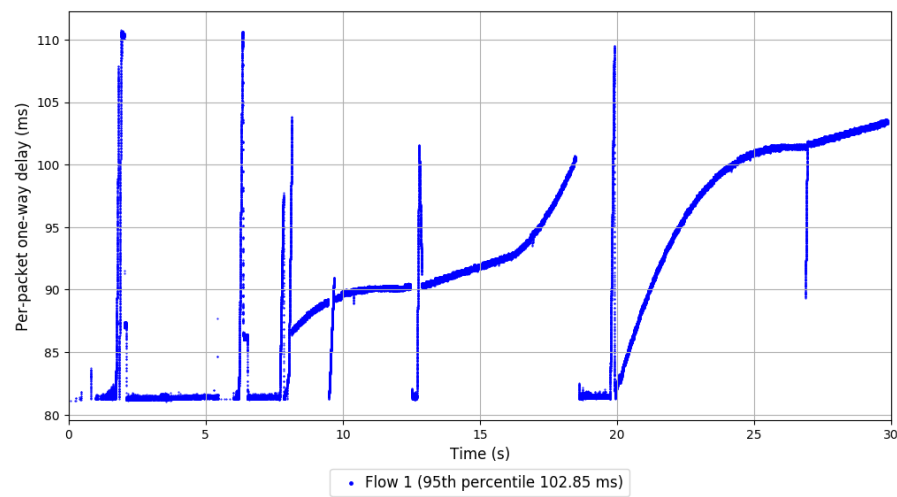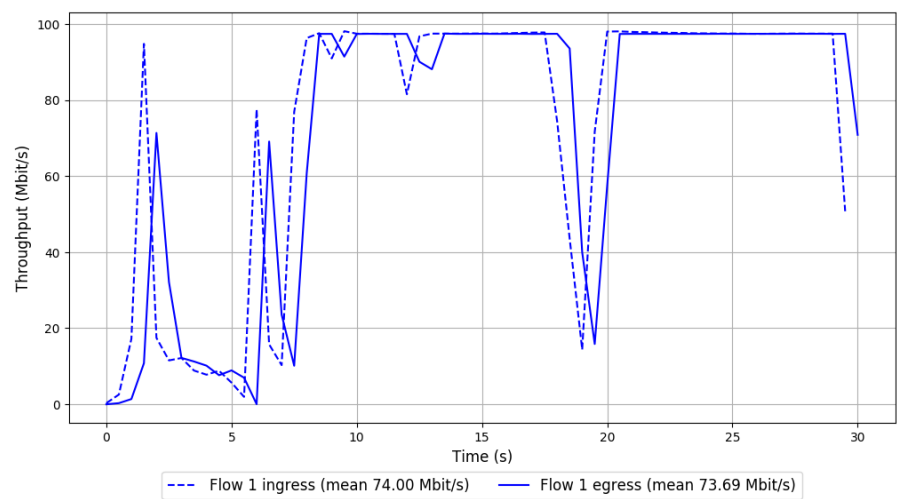
Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2019-01-18 19:59:18
End at: 2019-01-18 19:59:48
Local clock offset: -1.896 ms
Remote clock offset: 1.616 ms

# Below is generated by plot.py at 2019-01-18 21:01:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.40 Mbit/s
95th percentile per-packet one-way delay: 102.643 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 73.40 Mbit/s
95th percentile per-packet one-way delay: 102.643 ms
Loss rate: 0.33%
```
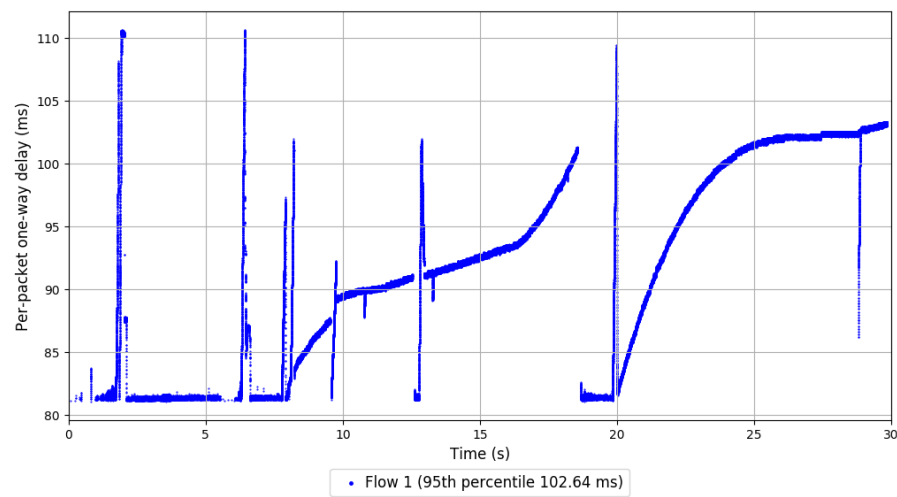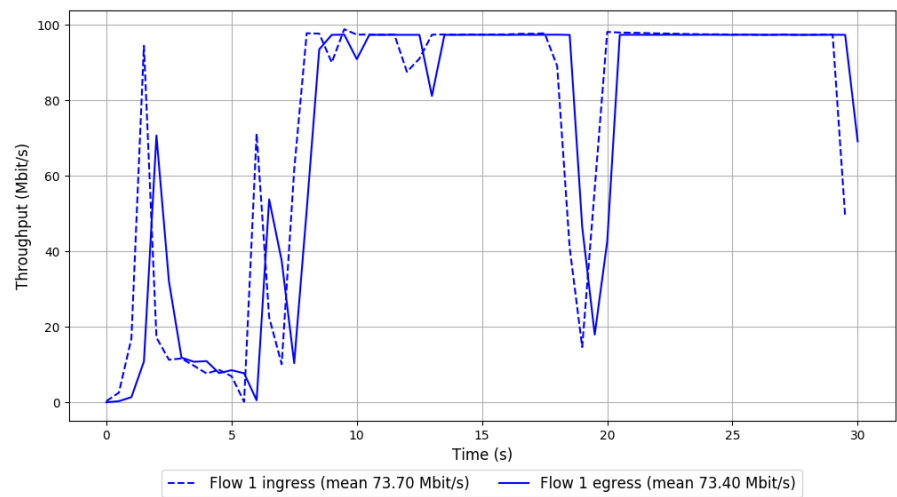
Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 73.70 Mbit/s) —— Flow 1 egress (mean 73.40 Mbit/s)

• Flow 1 (95th percentile 102.64 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2019-01-18 20:23:54
End at: 2019-01-18 20:24:24
Local clock offset: -4.756 ms
Remote clock offset: 3.88 ms


# Below is generated by plot.py at 2019-01-18 21:01:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.66 Mbit/s
95th percentile per-packet one-way delay: 99.667 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 73.66 Mbit/s
95th percentile per-packet one-way delay: 99.667 ms
Loss rate: 0.34%
```
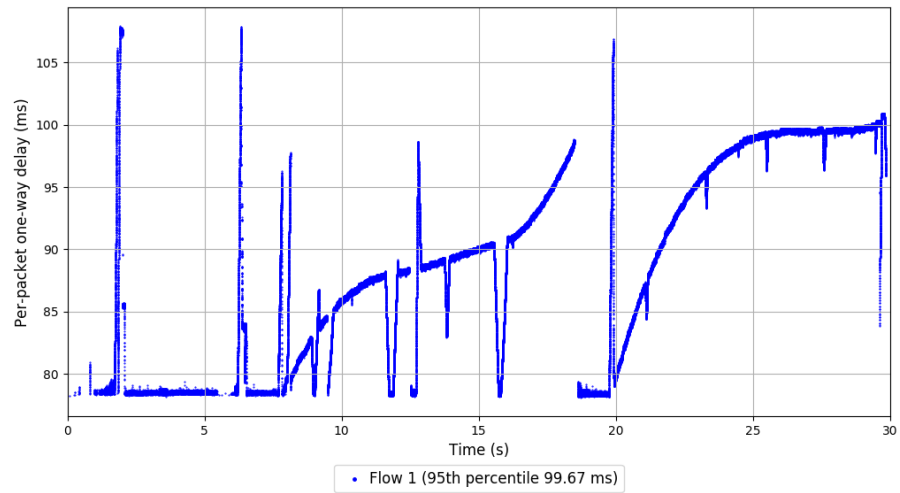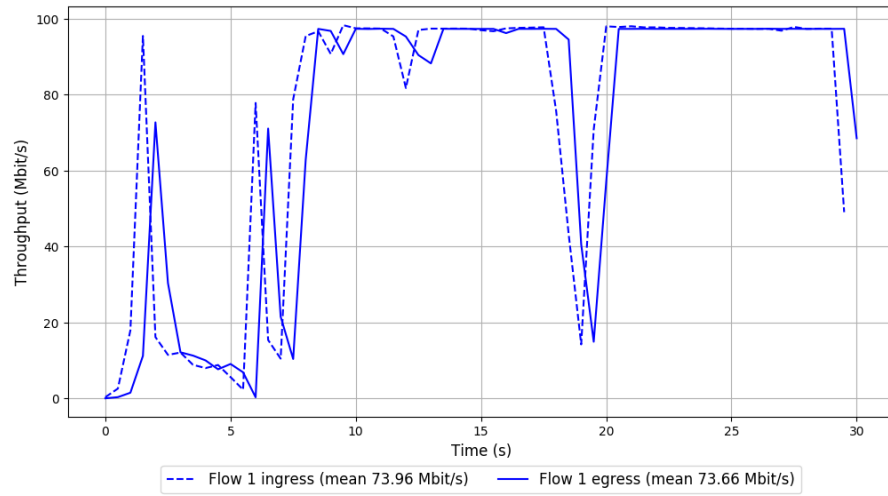
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 73.96 Mbit/s) --- Flow 1 egress (mean 73.66 Mbit/s)

Flow 1 (95th percentile 99.67 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2019-01-18 20:48:30
End at: 2019-01-18 20:49:00
Local clock offset: -9.46 ms
Remote clock offset: 2.77 ms


# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.28 Mbit/s
95th percentile per-packet one-way delay: 90.865 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 68.28 Mbit/s
95th percentile per-packet one-way delay: 90.865 ms
Loss rate: 0.36%
```
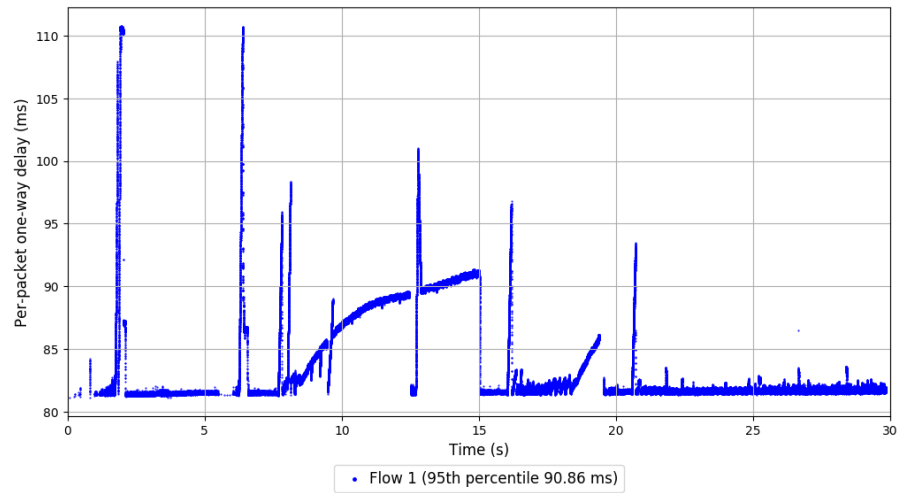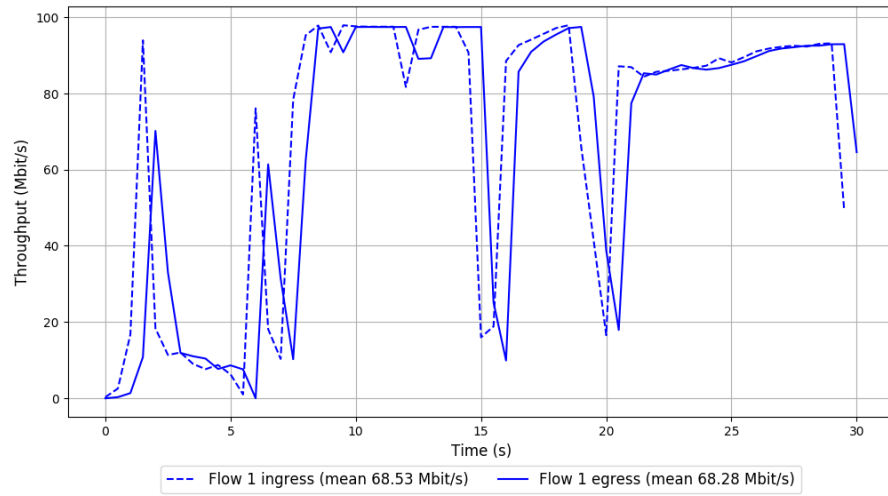
Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 68.53 Mbit/s)   Flow 1 egress (mean 68.28 Mbit/s)

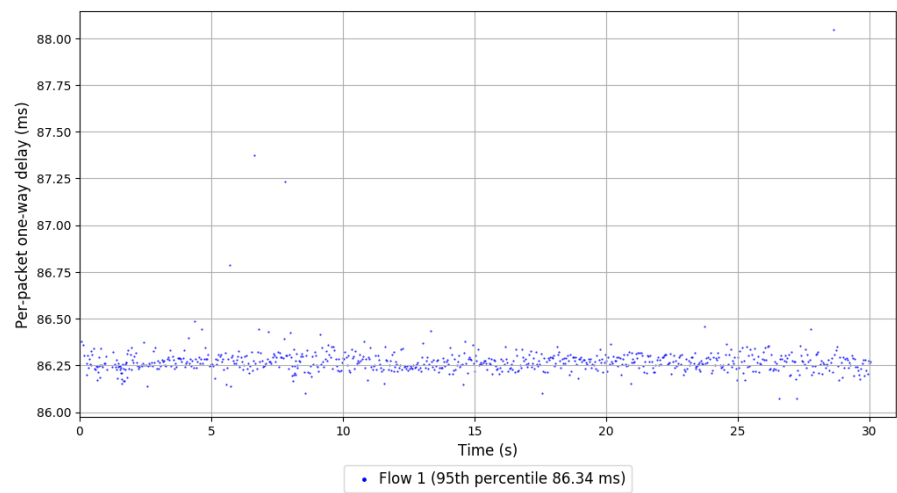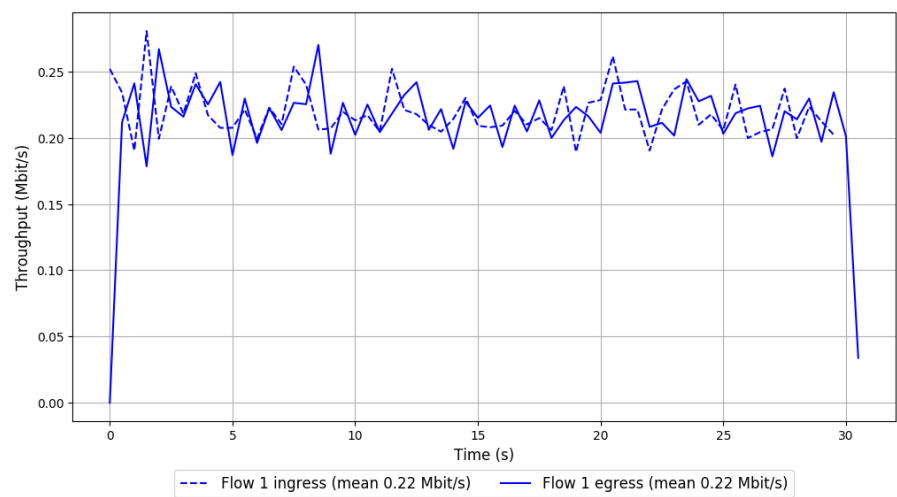Flow 1 (95th percentile 90.86 ms)

```
Run 1: Statistics of SCReAM

Start at: 2019-01-18 19:12:01
End at: 2019-01-18 19:12:31
Local clock offset: -7.442 ms
Remote clock offset: 9.587 ms


# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.344 ms
Loss rate: 0.00%
```
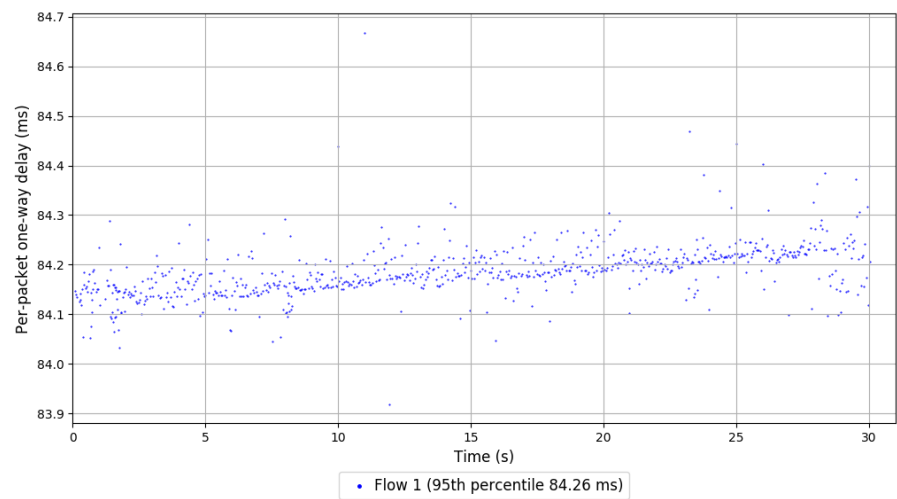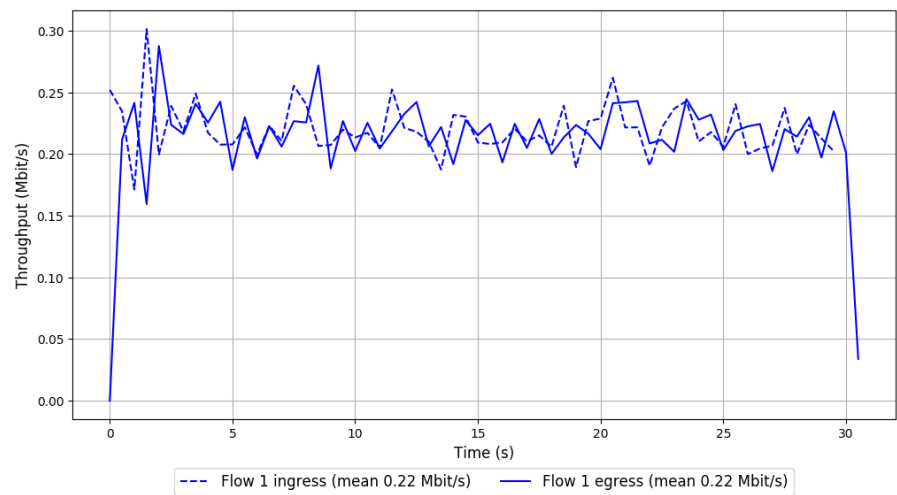
Run 1: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 86.34 ms)

```
Run 2: Statistics of SCReAM

Start at: 2019-01-18 19:36:40
End at: 2019-01-18 19:37:10
Local clock offset: -2.573 ms
Remote clock offset: 7.993 ms


# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.263 ms
Loss rate: 0.00%
```
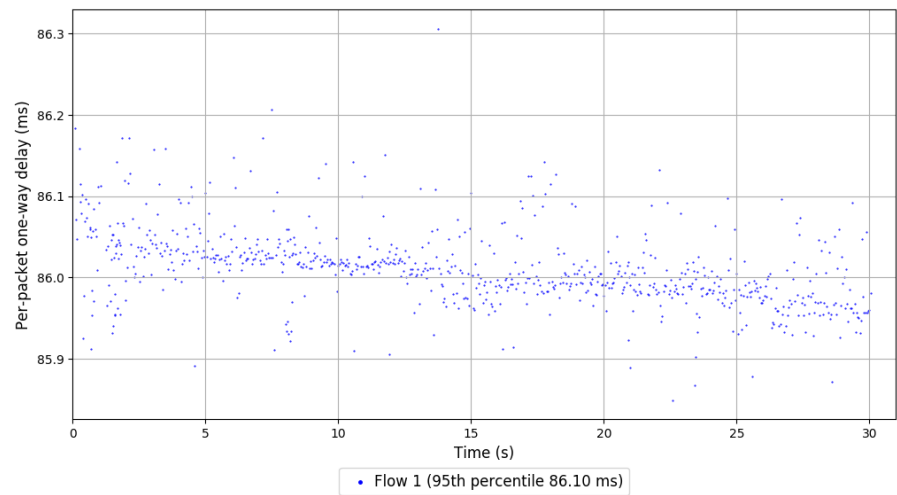
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2019-01-18 20:01:38
End at: 2019-01-18 20:02:08
Local clock offset: -1.77 ms
Remote clock offset: 8.305 ms


# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.102 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.102 ms
Loss rate: 0.00%
```
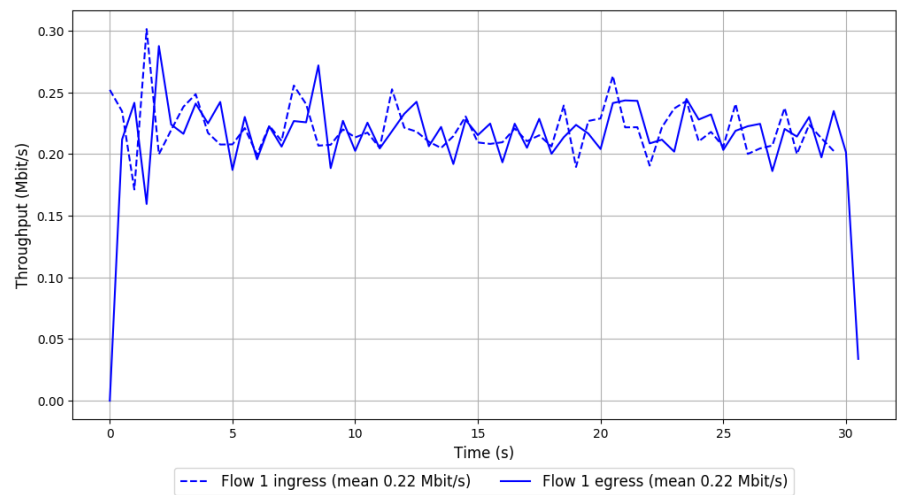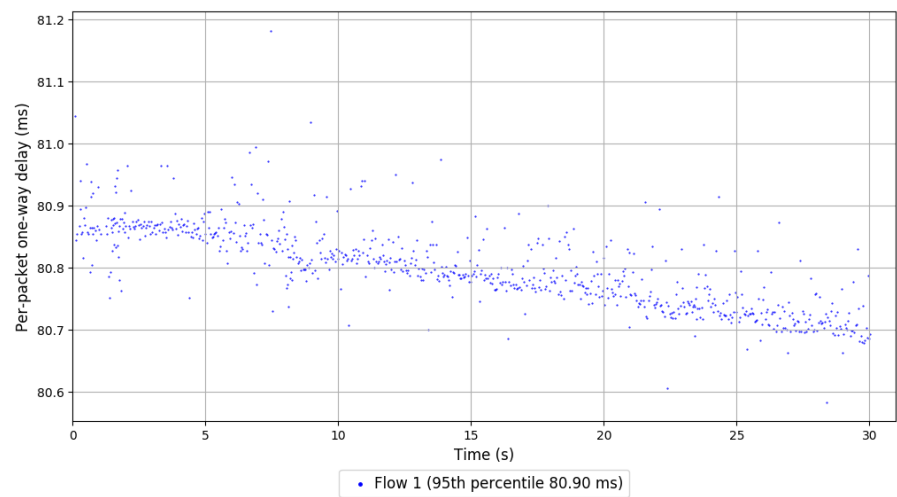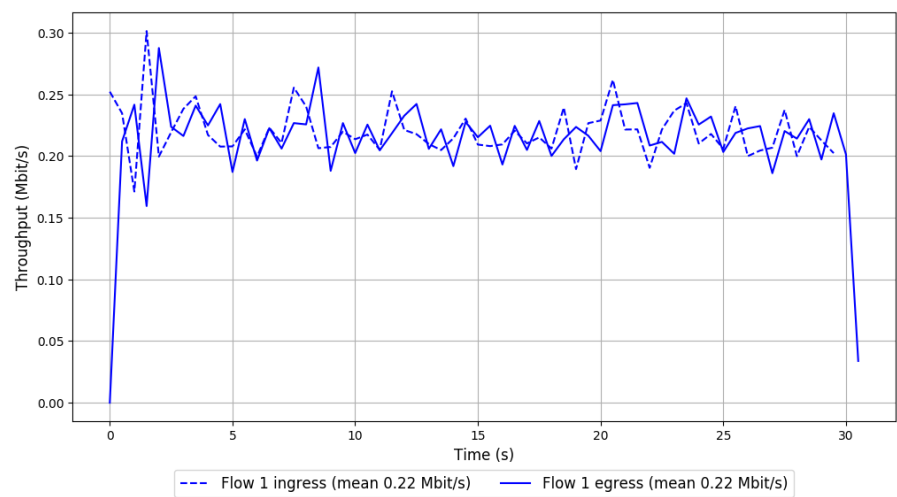
Run 3: Report of SCReAM — Data Link

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

• Flow 1 (95th percentile 86.10 ms)

```
Run 4: Statistics of SCReAM

Start at: 2019-01-18 20:26:14
End at: 2019-01-18 20:26:44
Local clock offset: -6.601 ms
Remote clock offset: 5.217 ms


# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.903 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.903 ms
Loss rate: 0.00%
```
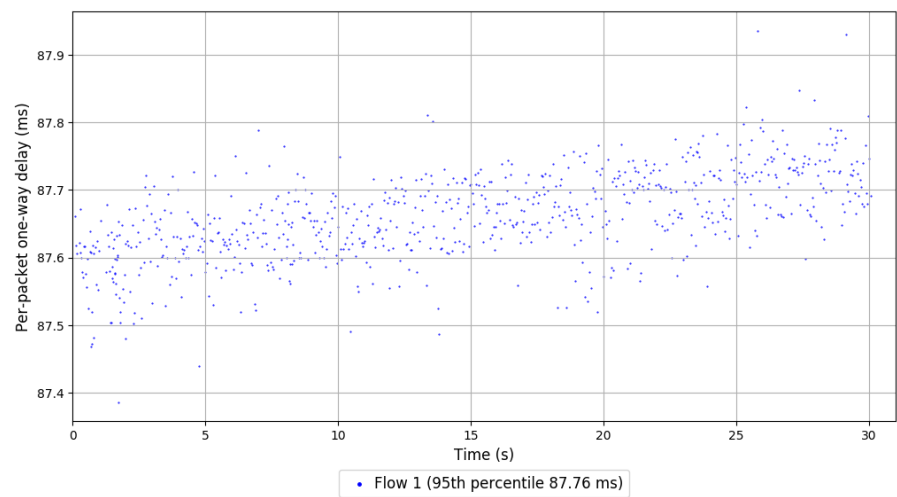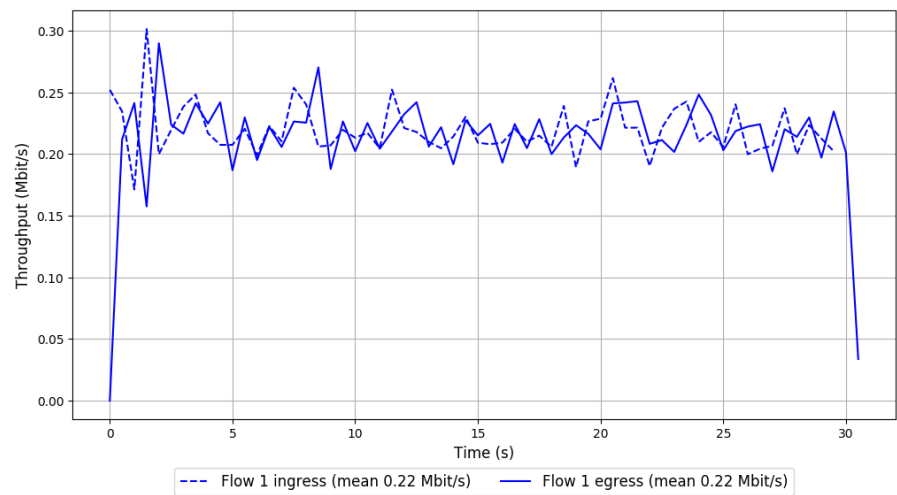
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2019-01-18 20:50:50
End at: 2019-01-18 20:51:20
Local clock offset: -9.442 ms
Remote clock offset: 8.726 ms


# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.757 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.757 ms
Loss rate: 0.00%
```
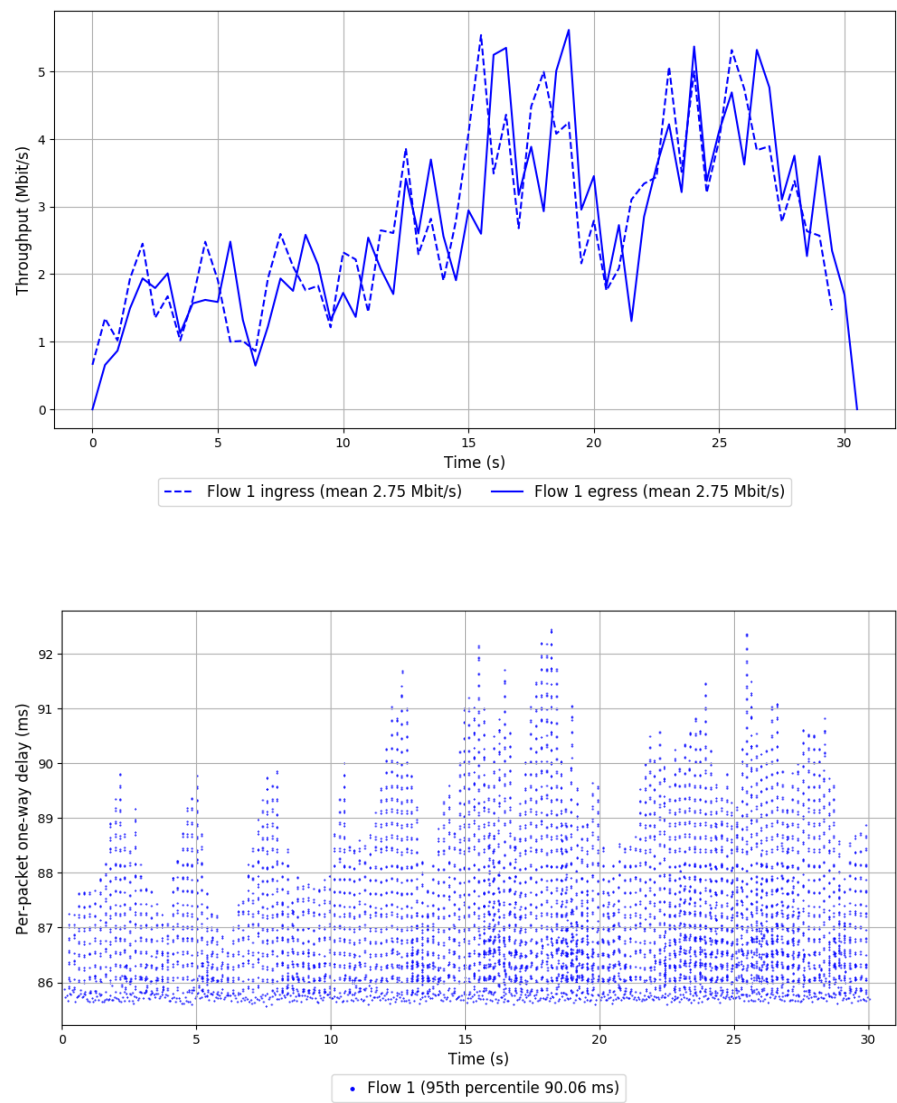
Run 5: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 87.76 ms)

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```
Run 1: Statistics of Sprout

Start at: 2019-01-18 18:53:11
End at: 2019-01-18 18:53:41
Local clock offset: -7.157 ms
Remote clock offset: 9.907 ms


# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 90.057 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 90.057 ms
Loss rate: 0.00%
```
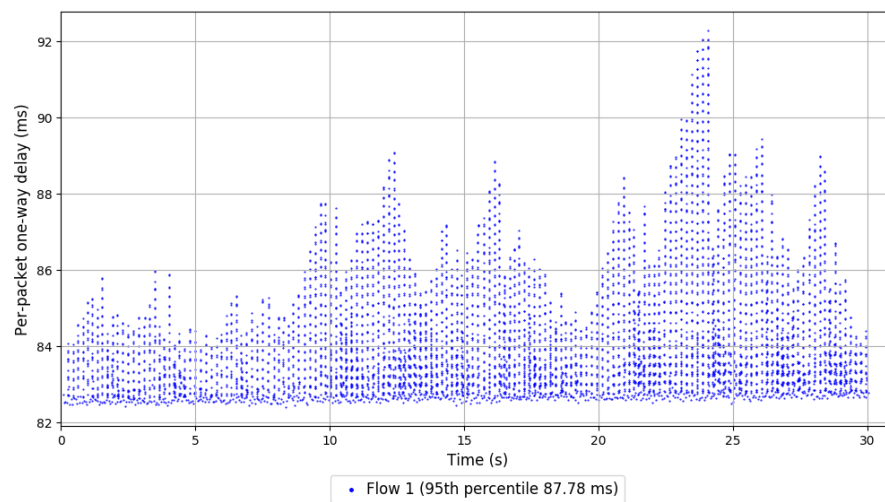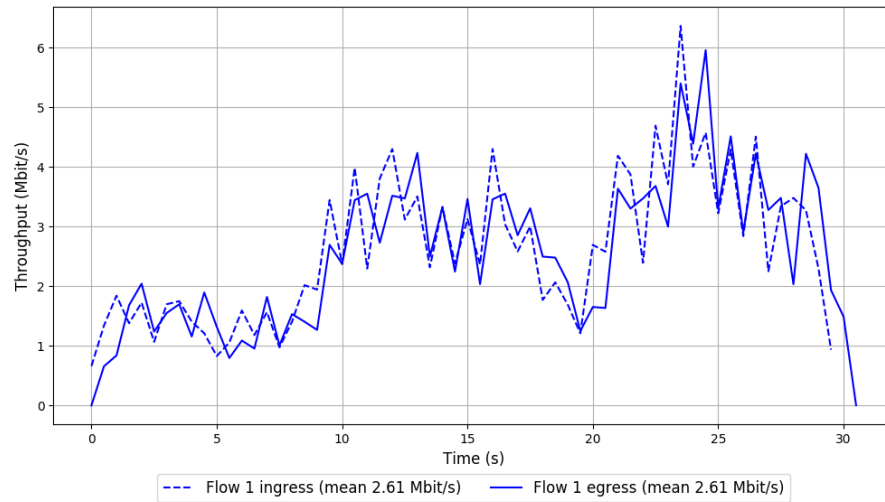
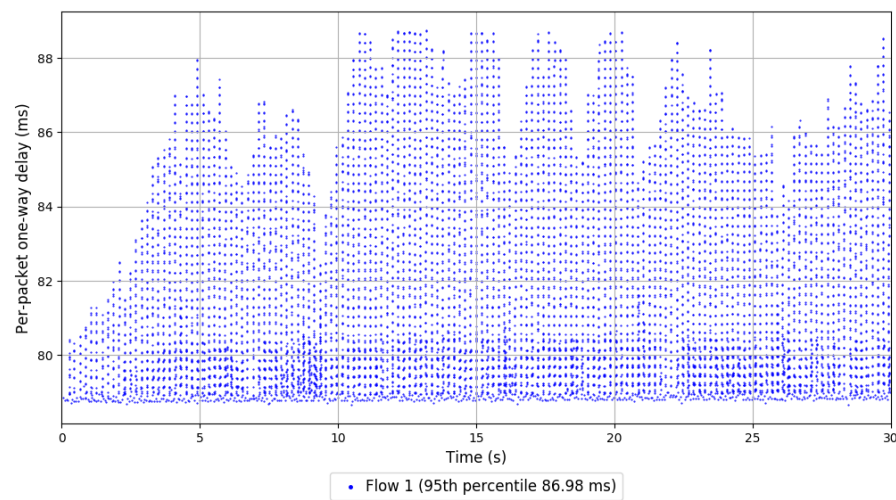Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2019-01-18 19:17:51
End at: 2019-01-18 19:18:21
Local clock offset: -6.512 ms
Remote clock offset: 6.294 ms


# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 87.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 87.783 ms
Loss rate: 0.00%
```

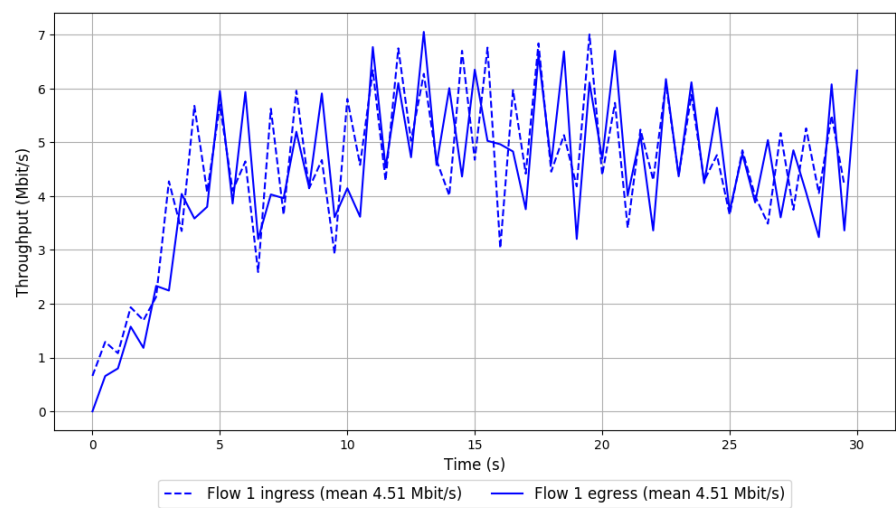## Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2019-01-18 19:42:29
End at: 2019-01-18 19:42:59
Local clock offset: -2.118 ms
Remote clock offset: 2.46 ms


# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 86.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 86.985 ms
Loss rate: 0.00%
```
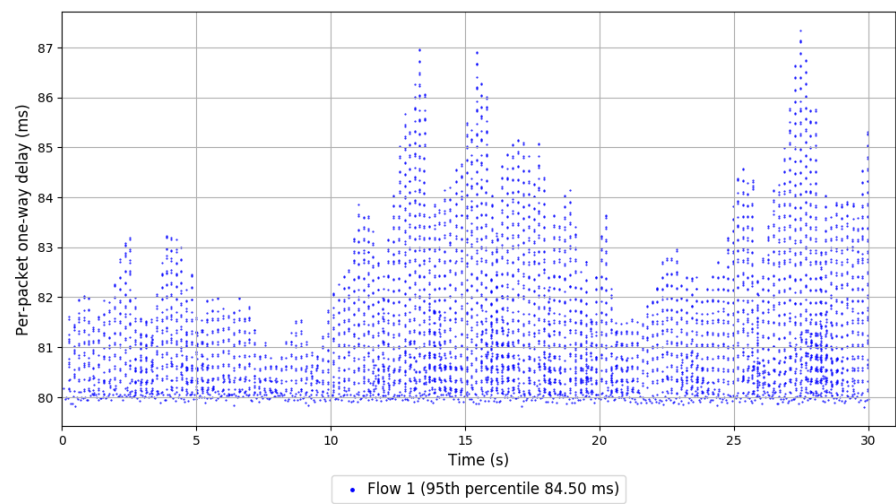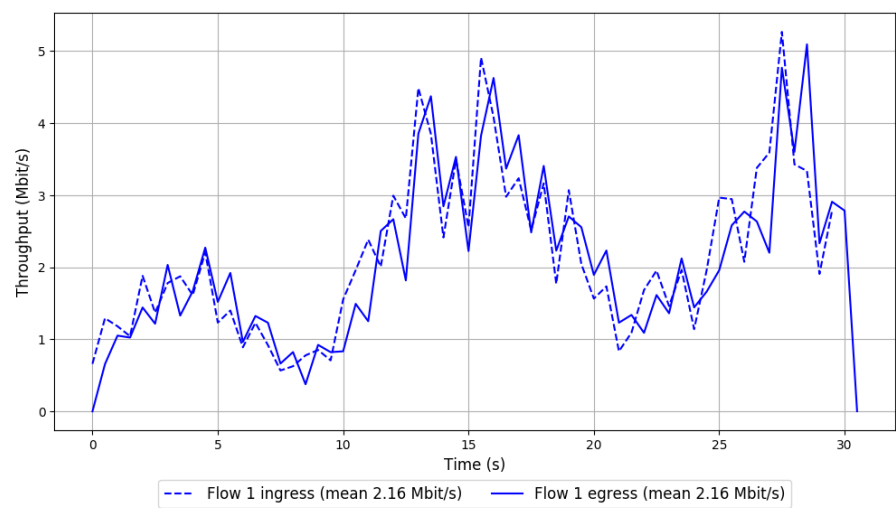
Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2019-01-18 20:07:27
End at: 2019-01-18 20:07:57
Local clock offset: -0.731 ms
Remote clock offset: 3.988 ms


# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 84.502 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 84.502 ms
Loss rate: 0.00%
```
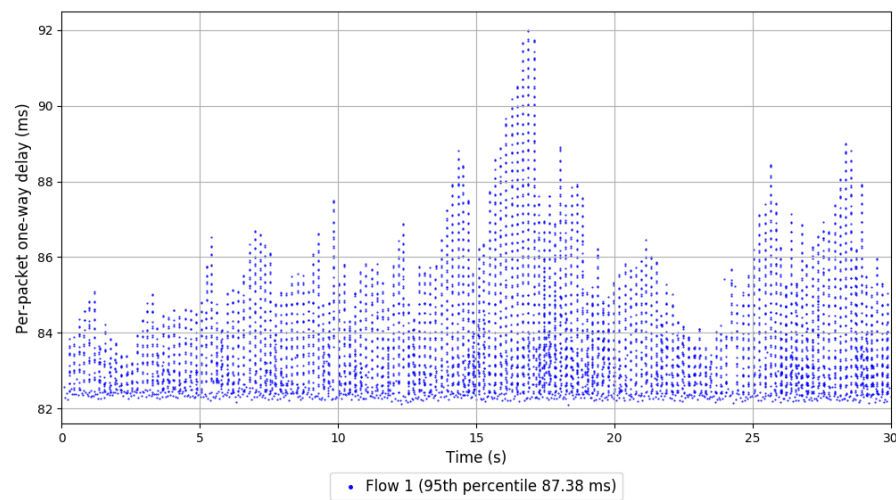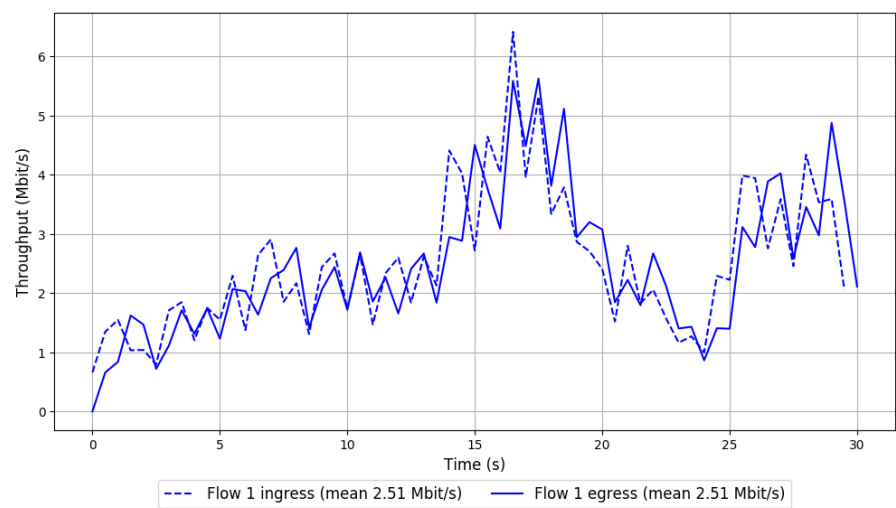
Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2019-01-18 20:32:03
End at: 2019-01-18 20:32:33
Local clock offset: -8.281 ms
Remote clock offset: 5.38 ms


# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 87.382 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 87.382 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

```
Run 1: Statistics of TaoVA-100x

Start at: 2019-01-18 19:02:33
End at: 2019-01-18 19:03:03
Local clock offset: -6.587 ms
Remote clock offset: 9.412 ms

# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 86.525 ms
Loss rate: 32.05%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 86.525 ms
Loss rate: 32.05%
```
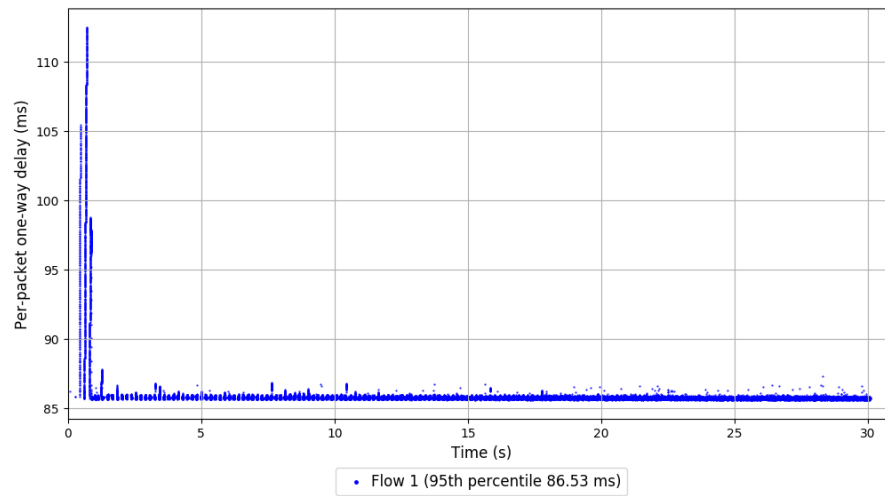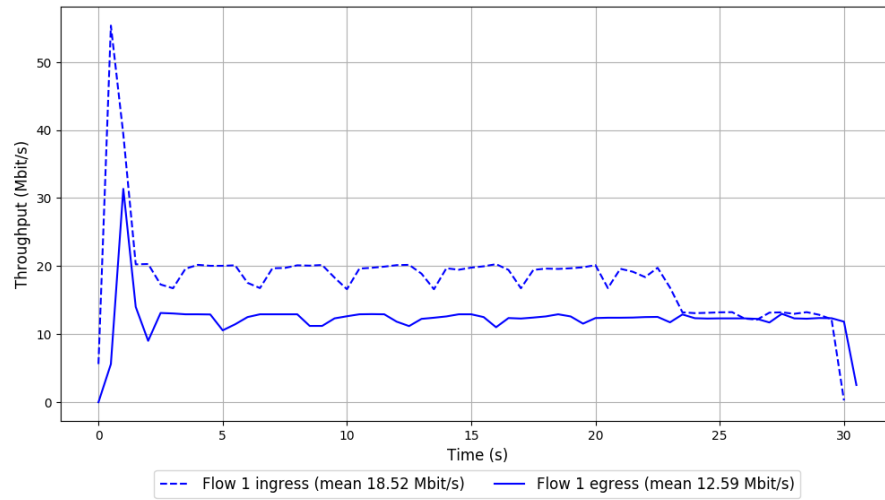
Run 1: Report of TaoVA-100x — Data Link

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

Start at: 2019-01-18 19:27:11
End at: 2019-01-18 19:27:41
Local clock offset: -4.568 ms
Remote clock offset: 5.127 ms

# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 80.609 ms
Loss rate: 30.63%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 80.609 ms
Loss rate: 30.63%
```
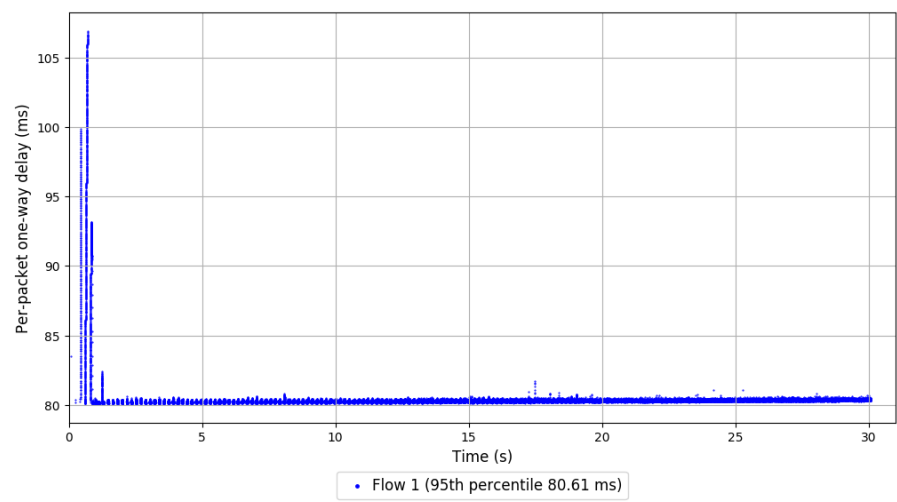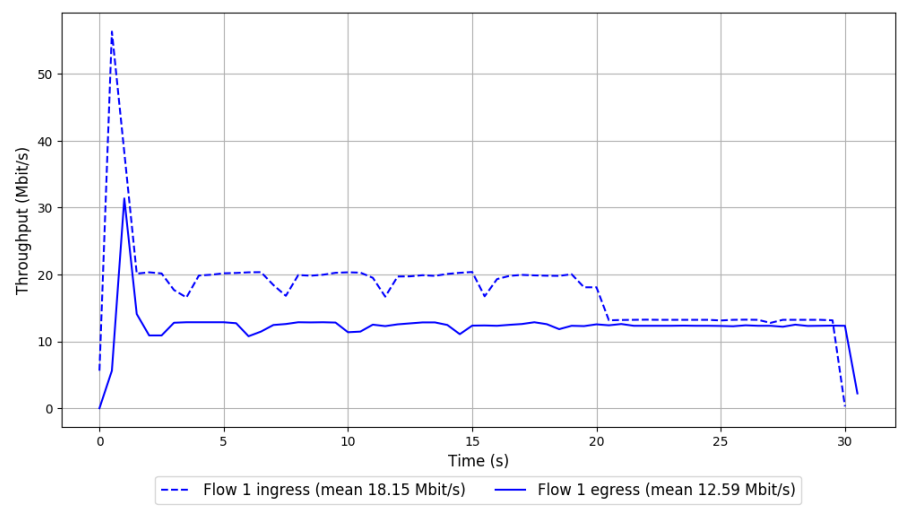
Run 2: Report of TaoVA-100x — Data Link

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

Start at: 2019-01-18 19:51:50
End at: 2019-01-18 19:52:20
Local clock offset: -1.53 ms
Remote clock offset: 2.0 ms


# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 81.741 ms
Loss rate: 33.12%
-- Flow 1:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 81.741 ms
Loss rate: 33.12%
```
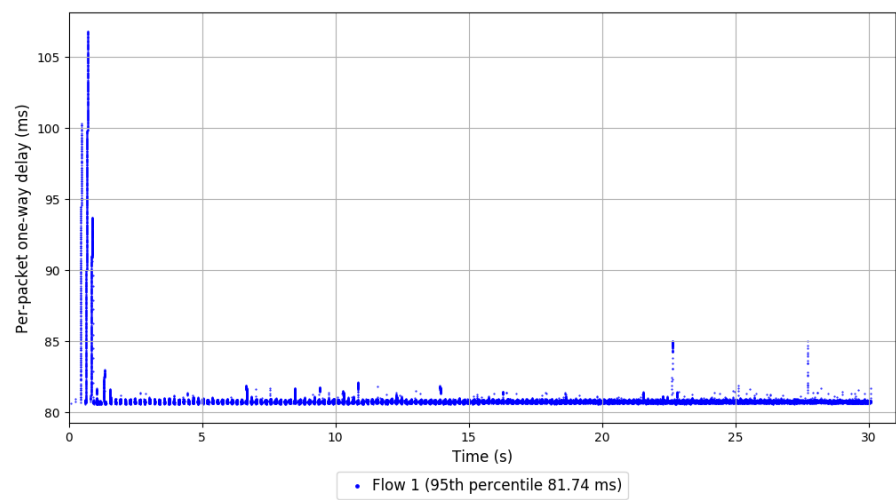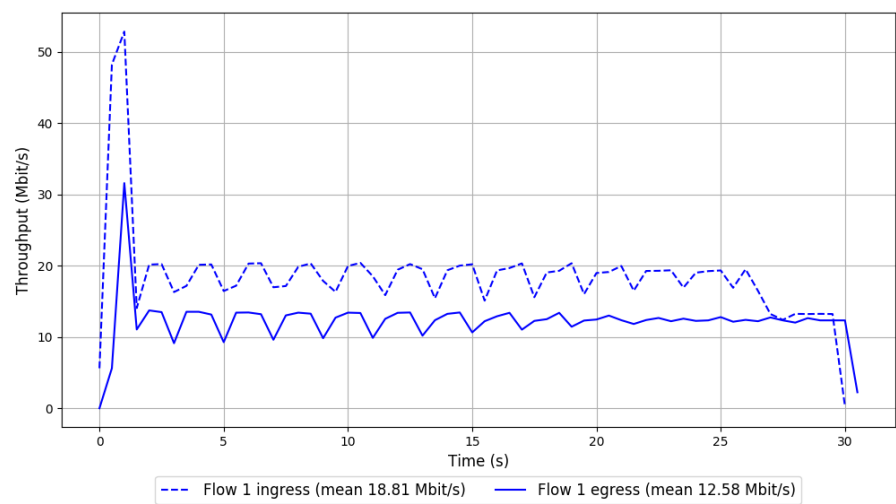
Run 3: Report of TaoVA-100x — Data Link

```
Run 4: Statistics of TaoVA-100x

Start at: 2019-01-18 20:16:47
End at: 2019-01-18 20:17:17
Local clock offset: -0.258 ms
Remote clock offset: 3.824 ms


# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 80.946 ms
Loss rate: 29.60%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 80.946 ms
Loss rate: 29.60%
```
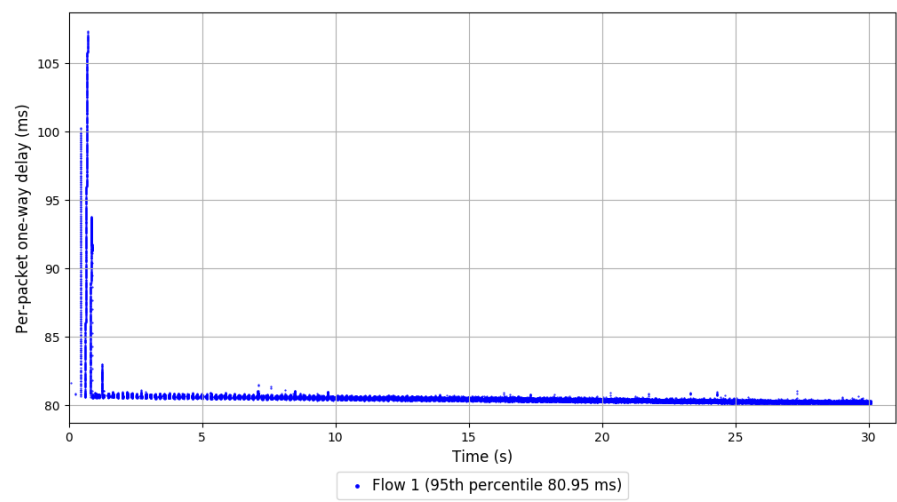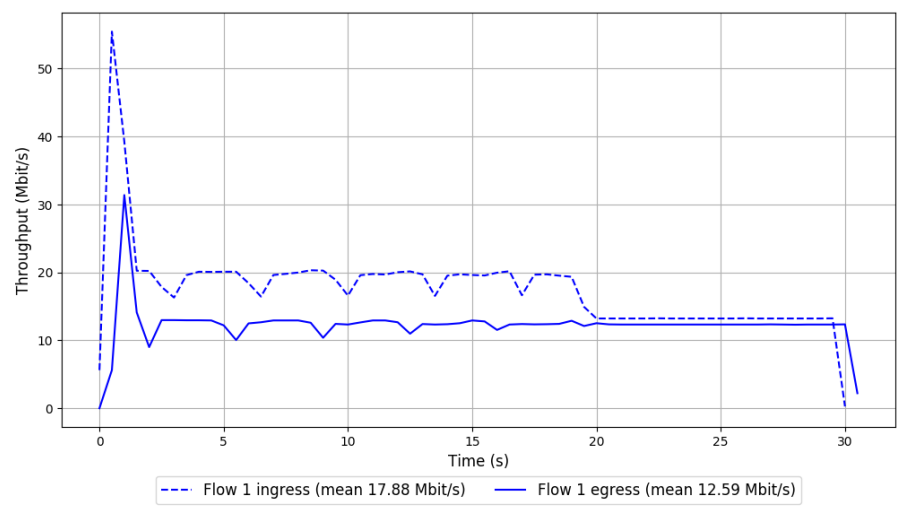
Run 4: Report of TaoVA-100x — Data Link

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```
Run 5: Statistics of TaoVA-100x

Start at: 2019-01-18 20:41:24
End at: 2019-01-18 20:41:54
Local clock offset: -9.108 ms
Remote clock offset: 3.241 ms


# Below is generated by plot.py at 2019-01-18 21:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 80.905 ms
Loss rate: 30.07%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 80.905 ms
Loss rate: 30.07%
```
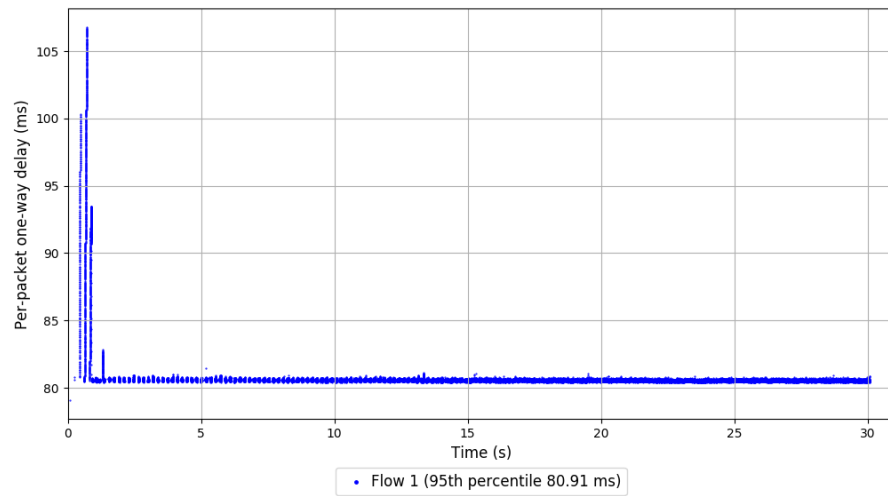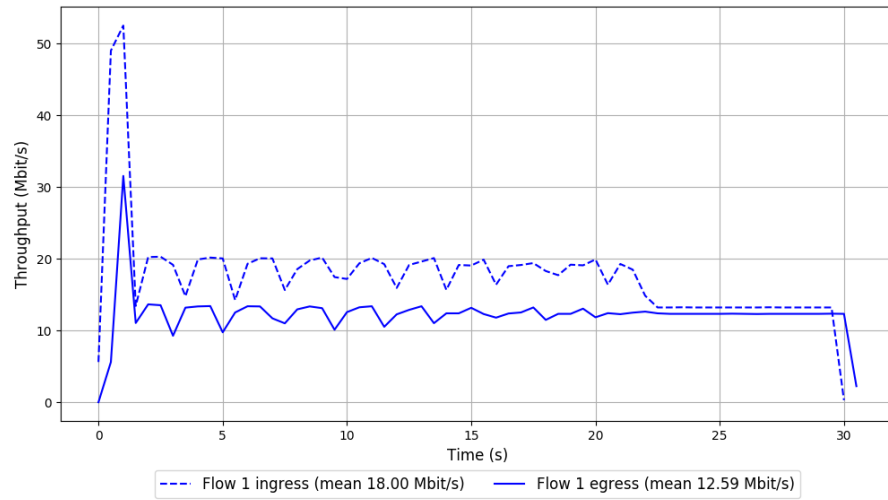
Run 5: Report of TaoVA-100x — Data Link

```
Run 1: Statistics of TCP Vegas

Start at: 2019-01-18 19:06:05
End at: 2019-01-18 19:06:35
Local clock offset: -7.396 ms
Remote clock offset: 5.647 ms


# Below is generated by plot.py at 2019-01-18 21:01:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.79 Mbit/s
95th percentile per-packet one-way delay: 83.194 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 51.79 Mbit/s
95th percentile per-packet one-way delay: 83.194 ms
Loss rate: 1.30%
```
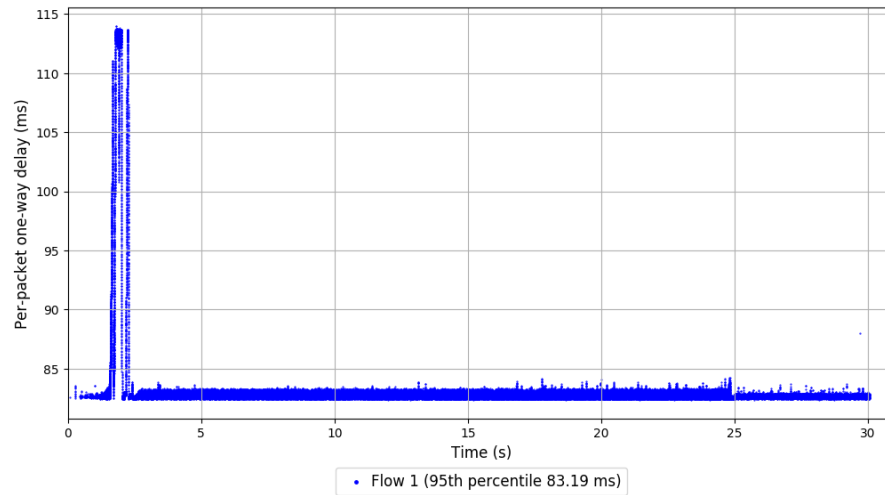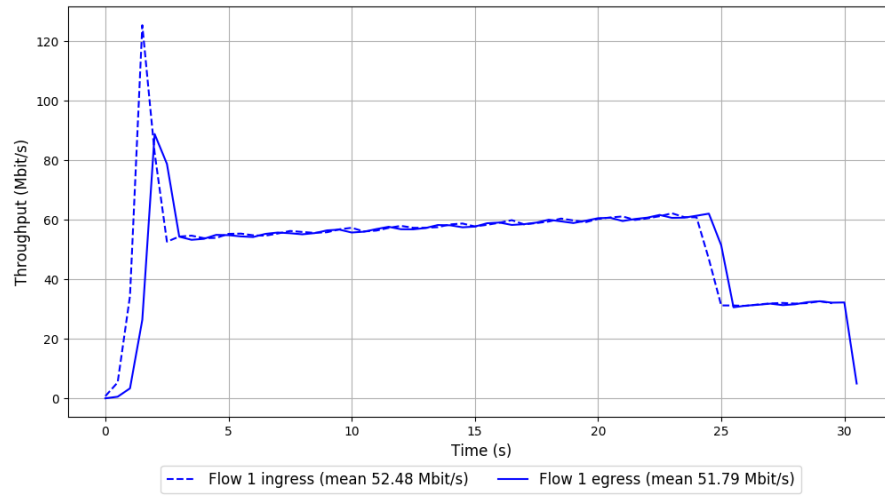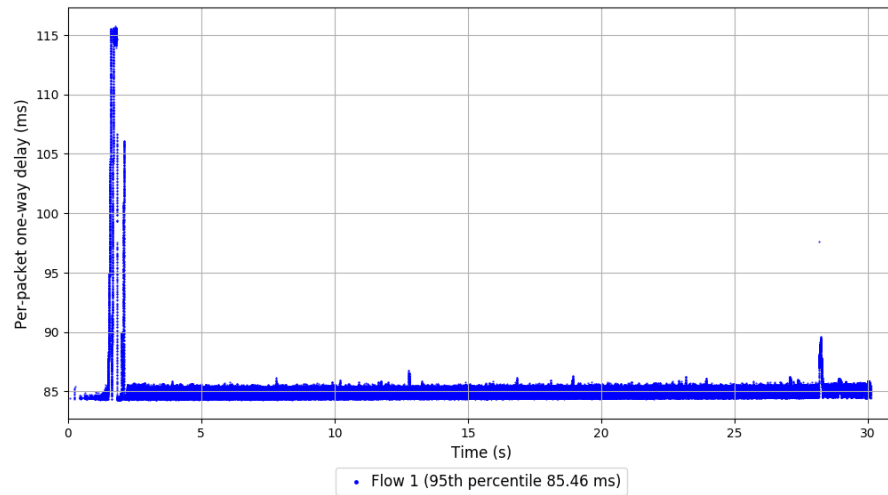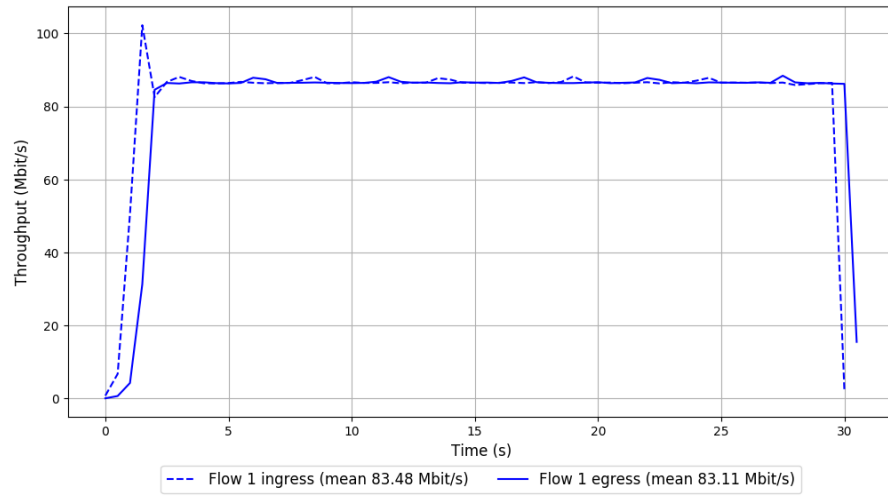
Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2019-01-18 19:30:43
End at: 2019-01-18 19:31:13
Local clock offset: -3.242 ms
Remote clock offset: 8.762 ms


# Below is generated by plot.py at 2019-01-18 21:02:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.11 Mbit/s
95th percentile per-packet one-way delay: 85.464 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 83.11 Mbit/s
95th percentile per-packet one-way delay: 85.464 ms
Loss rate: 0.44%
```
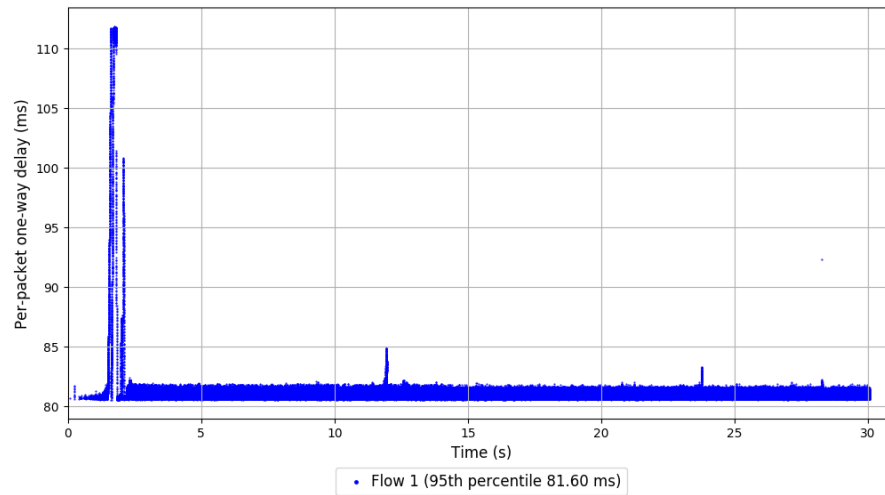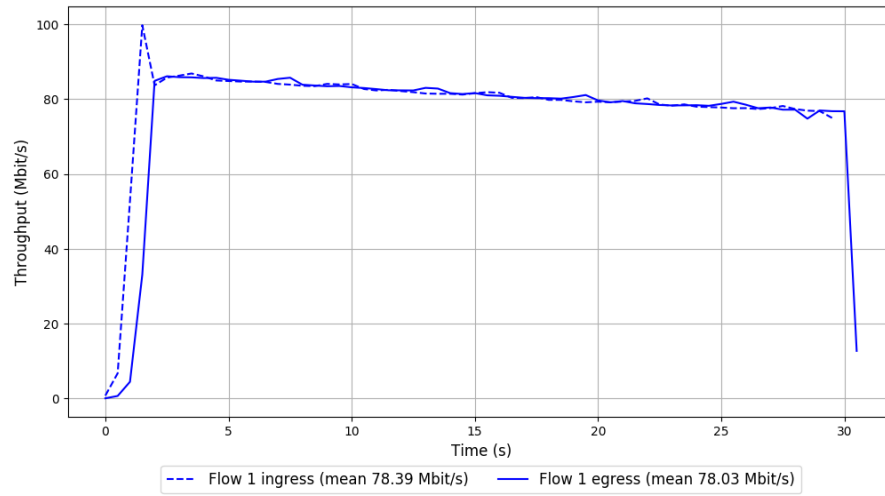
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2019-01-18 19:55:38
End at: 2019-01-18 19:56:08
Local clock offset: -2.087 ms
Remote clock offset: 2.964 ms


# Below is generated by plot.py at 2019-01-18 21:02:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.03 Mbit/s
95th percentile per-packet one-way delay: 81.599 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 78.03 Mbit/s
95th percentile per-packet one-way delay: 81.599 ms
Loss rate: 0.46%
```

Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 78.39 Mbit/s) — — —   Flow 1 egress (mean 78.03 Mbit/s) ———

Flow 1 (95th percentile 81.60 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2019-01-18 20:20:19
End at: 2019-01-18 20:20:49
Local clock offset: -3.381 ms
Remote clock offset: 8.946 ms

# Below is generated by plot.py at 2019-01-18 21:02:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.47 Mbit/s
95th percentile per-packet one-way delay: 87.737 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 43.47 Mbit/s
95th percentile per-packet one-way delay: 87.737 ms
Loss rate: 0.85%
```
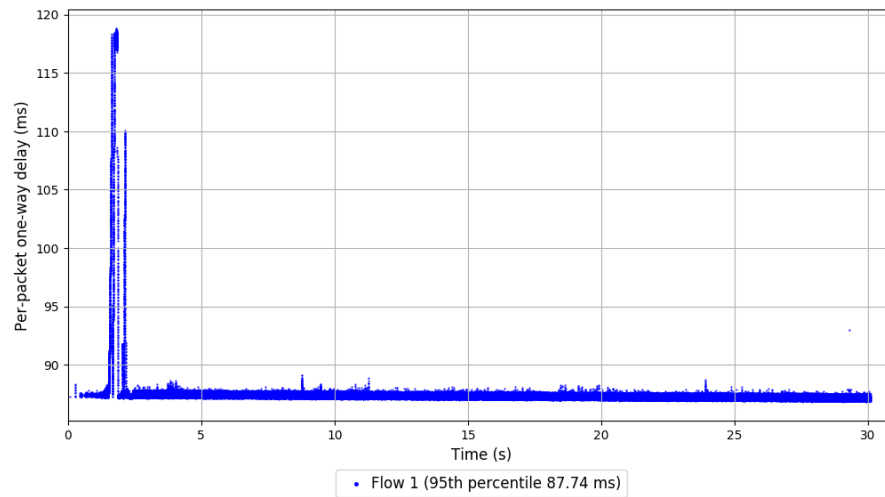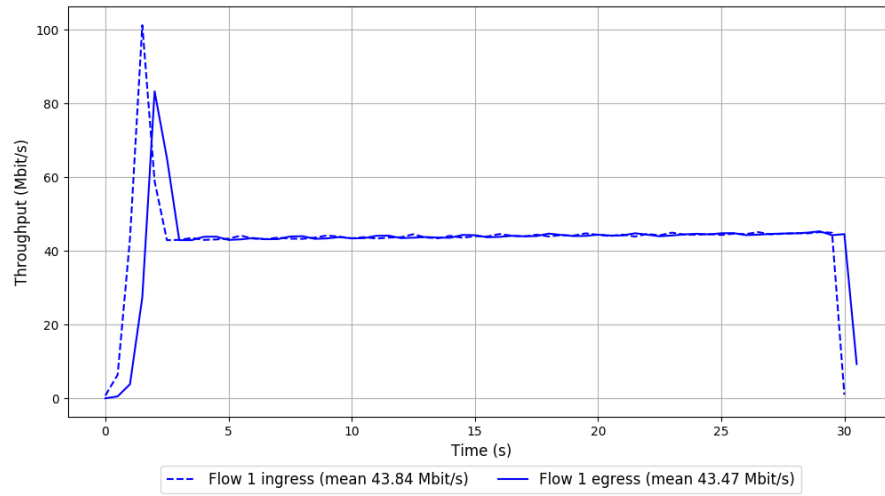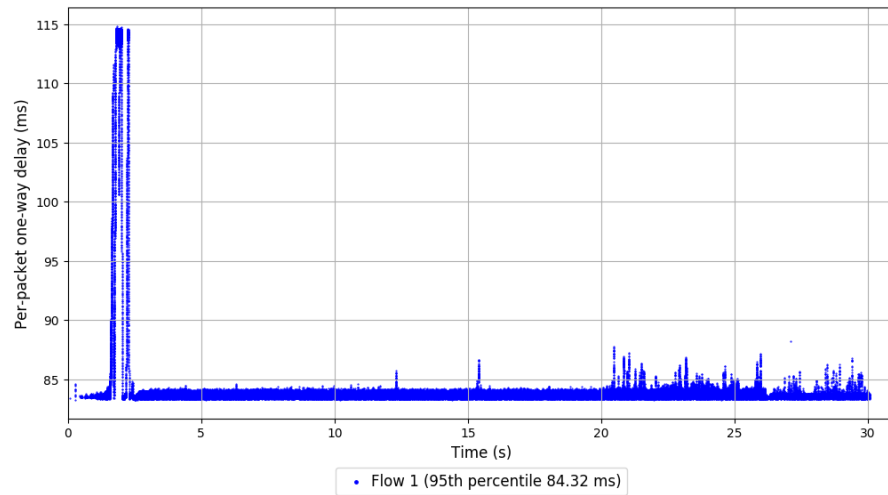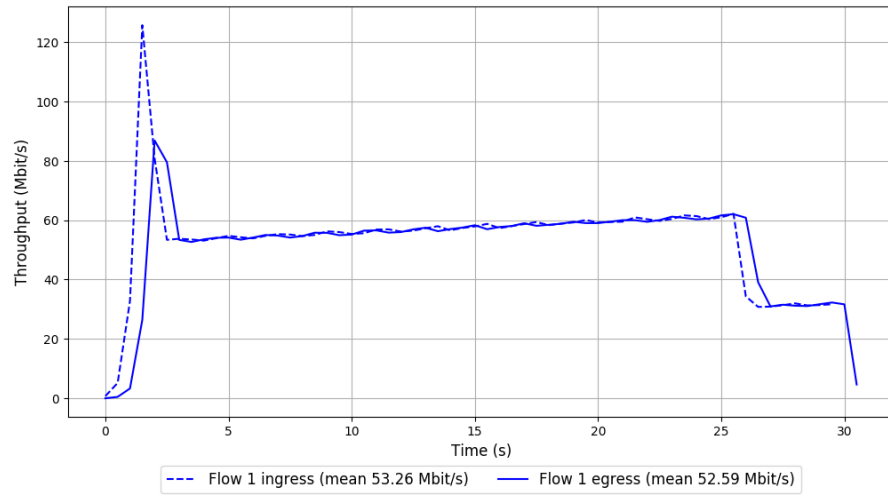
Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2019-01-18 20:44:54
End at: 2019-01-18 20:45:24
Local clock offset: -10.344 ms
Remote clock offset: 4.132 ms


# Below is generated by plot.py at 2019-01-18 21:02:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.59 Mbit/s
95th percentile per-packet one-way delay: 84.322 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 52.59 Mbit/s
95th percentile per-packet one-way delay: 84.322 ms
Loss rate: 1.26%
```

Run 5: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2019-01-18 18:56:43
End at: 2019-01-18 18:57:13
Local clock offset: -7.248 ms
Remote clock offset: 9.075 ms


# Below is generated by plot.py at 2019-01-18 21:02:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.50 Mbit/s
95th percentile per-packet one-way delay: 117.100 ms
Loss rate: 9.16%
-- Flow 1:
Average throughput: 29.50 Mbit/s
95th percentile per-packet one-way delay: 117.100 ms
Loss rate: 9.16%
```
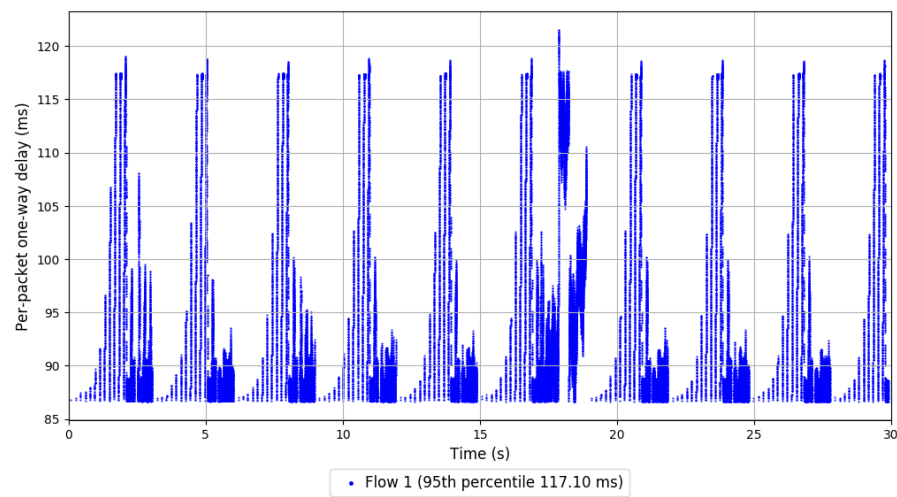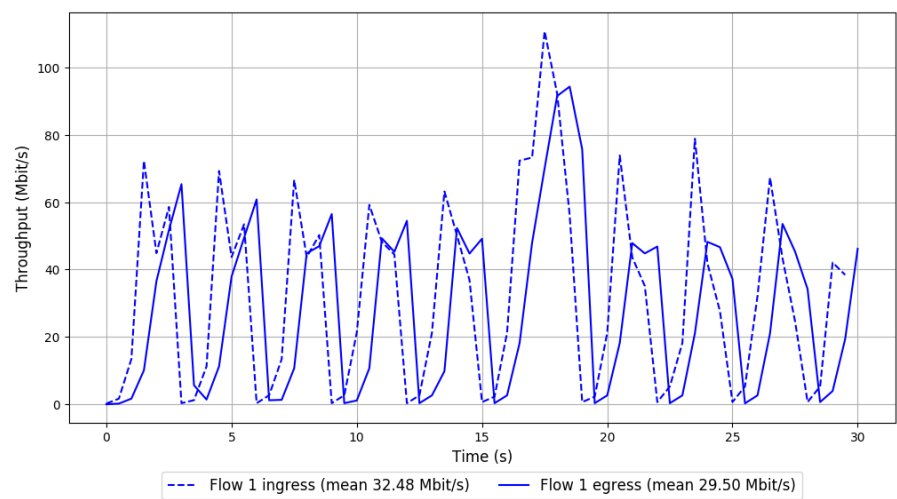
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2019-01-18 19:21:22
End at: 2019-01-18 19:21:52
Local clock offset: -5.953 ms
Remote clock offset: 8.895 ms

# Below is generated by plot.py at 2019-01-18 21:02:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.30 Mbit/s
95th percentile per-packet one-way delay: 135.404 ms
Loss rate: 51.75%
-- Flow 1:
Average throughput: 29.30 Mbit/s
95th percentile per-packet one-way delay: 135.404 ms
Loss rate: 51.75%
```
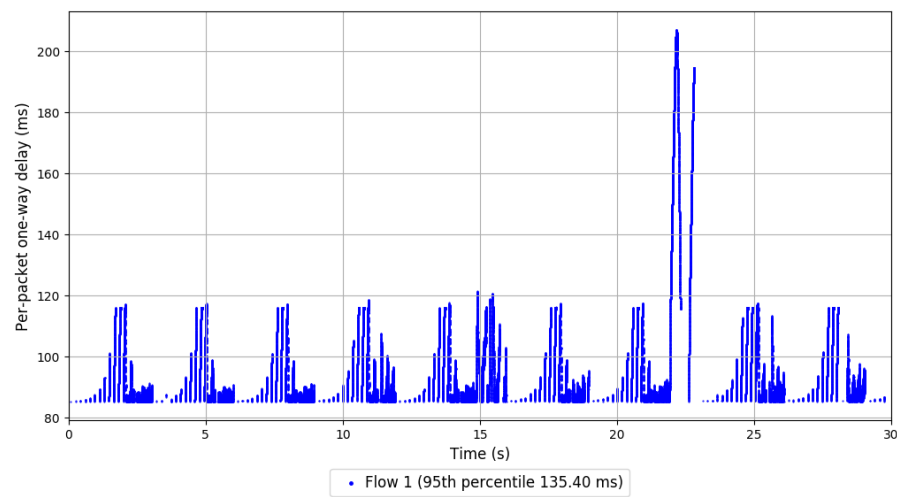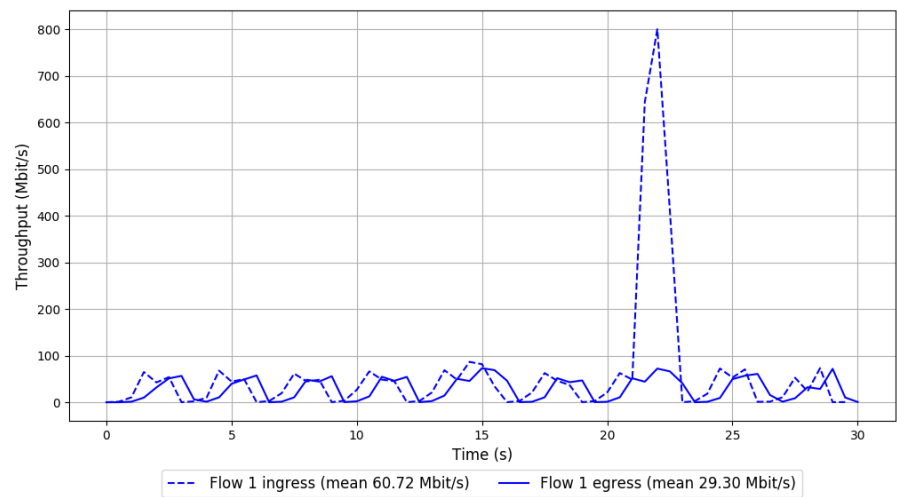
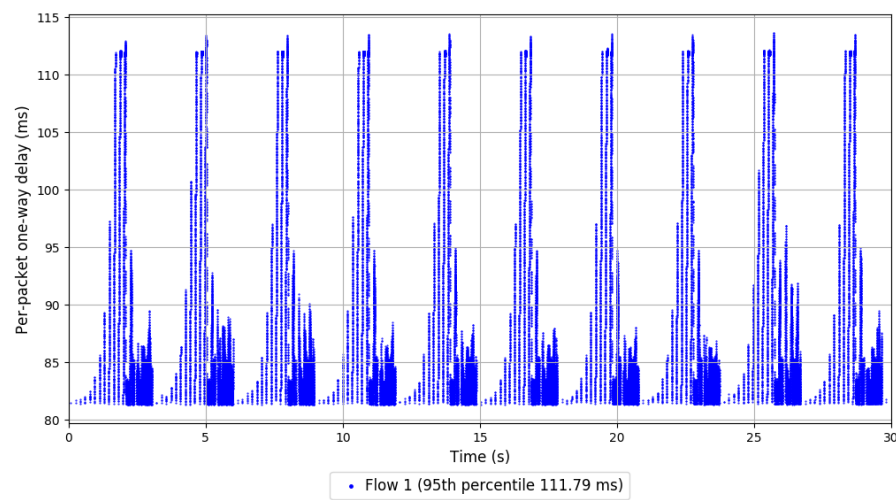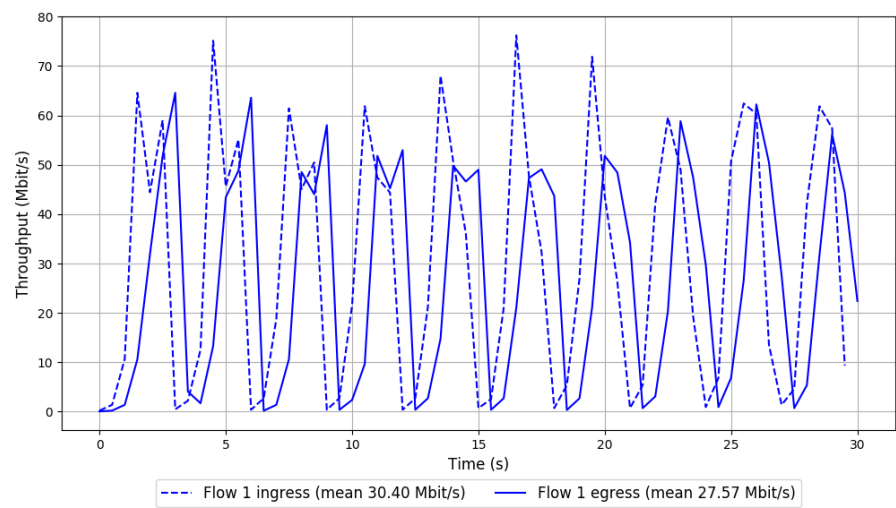## Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2019-01-18 19:46:01
End at: 2019-01-18 19:46:31
Local clock offset: -2.712 ms
Remote clock offset: 2.212 ms


# Below is generated by plot.py at 2019-01-18 21:02:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.57 Mbit/s
95th percentile per-packet one-way delay: 111.792 ms
Loss rate: 9.31%
-- Flow 1:
Average throughput: 27.57 Mbit/s
95th percentile per-packet one-way delay: 111.792 ms
Loss rate: 9.31%
```

Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2019-01-18 20:10:59
End at: 2019-01-18 20:11:29
Local clock offset: -0.621 ms
Remote clock offset: 3.464 ms


# Below is generated by plot.py at 2019-01-18 21:02:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 111.630 ms
Loss rate: 18.41%
-- Flow 1:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 111.630 ms
Loss rate: 18.41%
```
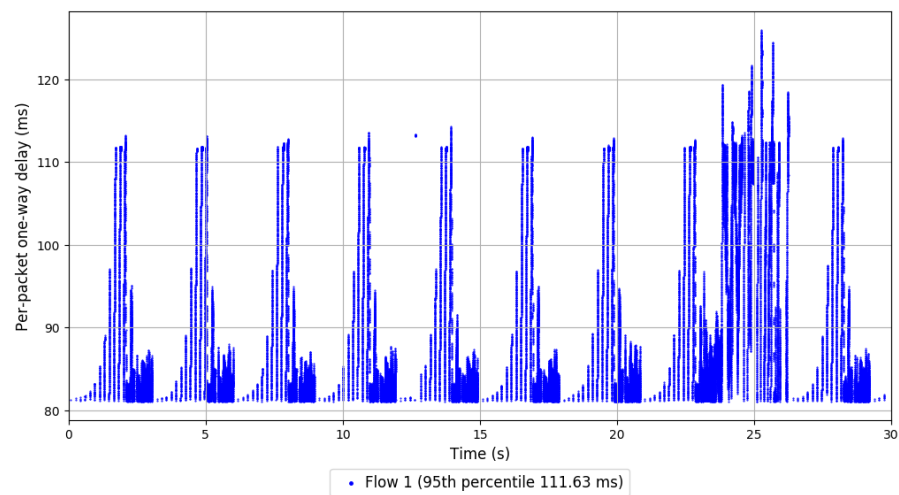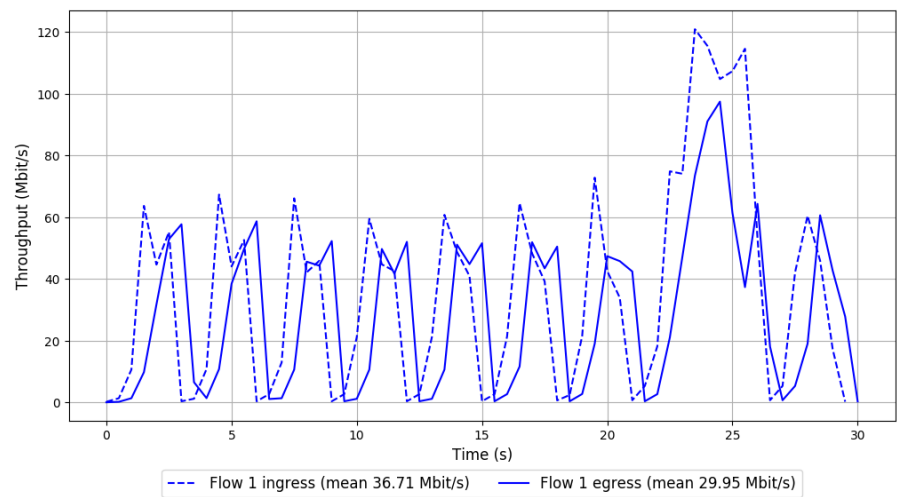
Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 36.71 Mbit/s) ---- Flow 1 egress (mean 29.95 Mbit/s) ——

• Flow 1 (95th percentile 111.63 ms)

```
Run 5: Statistics of Verus

Start at: 2019-01-18 20:35:35
End at: 2019-01-18 20:36:05
Local clock offset: -8.947 ms
Remote clock offset: 8.779 ms


# Below is generated by plot.py at 2019-01-18 21:02:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.47 Mbit/s
95th percentile per-packet one-way delay: 154.679 ms
Loss rate: 76.56%
-- Flow 1:
Average throughput: 28.47 Mbit/s
95th percentile per-packet one-way delay: 154.679 ms
Loss rate: 76.56%
```
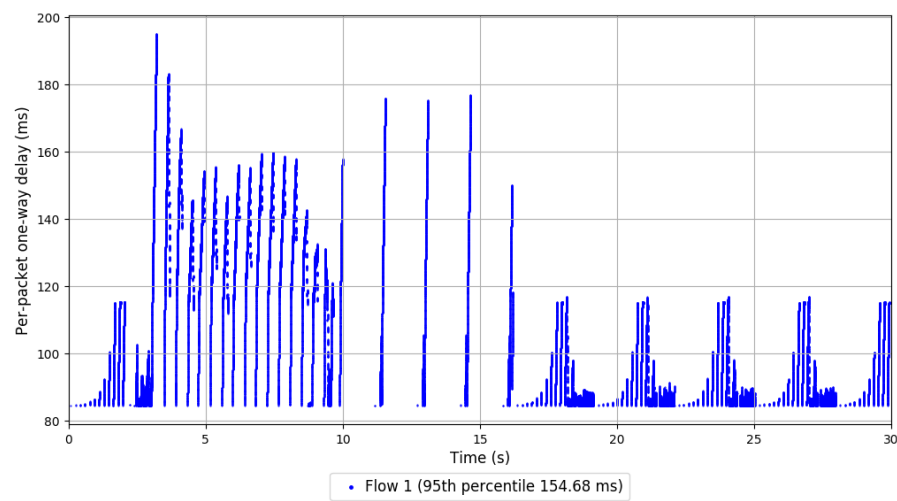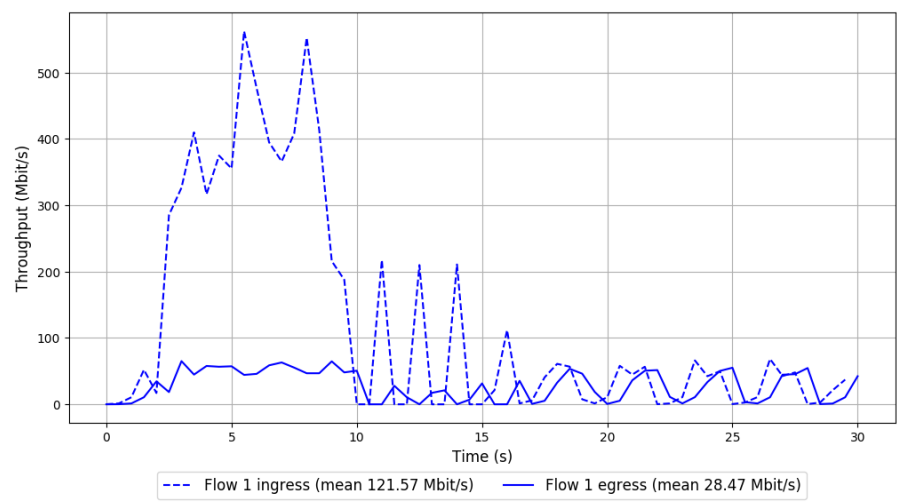
Run 5: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2019-01-18 18:55:30
End at: 2019-01-18 18:56:00
Local clock offset: -7.226 ms
Remote clock offset: 7.849 ms

# Below is generated by plot.py at 2019-01-18 21:02:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.16 Mbit/s
95th percentile per-packet one-way delay: 107.954 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 75.16 Mbit/s
95th percentile per-packet one-way delay: 107.954 ms
Loss rate: 0.17%
```
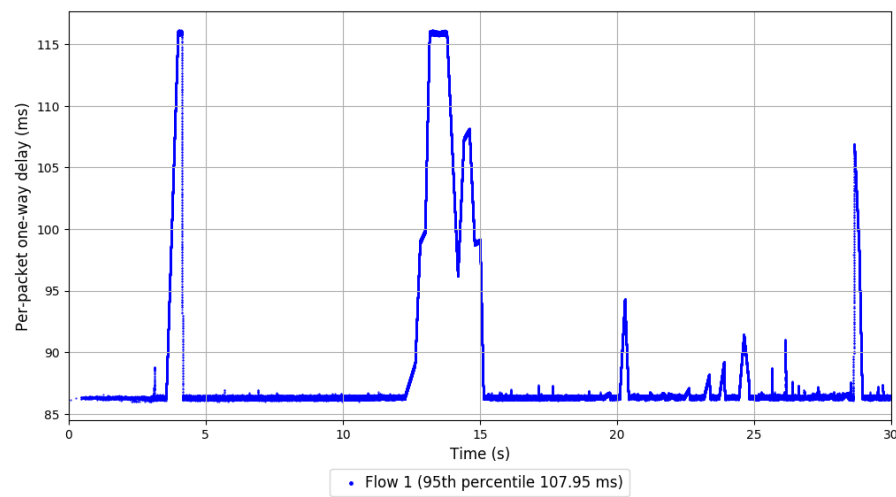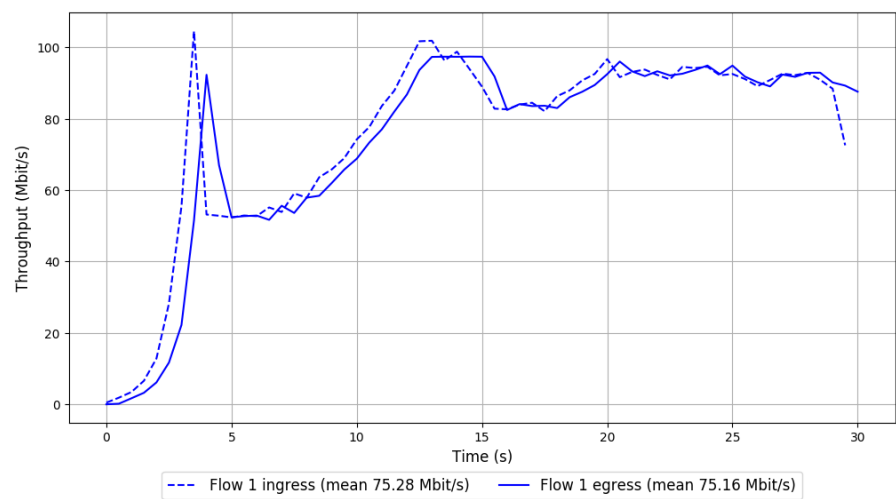
Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2019-01-18 19:20:10
End at: 2019-01-18 19:20:40
Local clock offset: -6.294 ms
Remote clock offset: 8.724 ms


# Below is generated by plot.py at 2019-01-18 21:02:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.35 Mbit/s
95th percentile per-packet one-way delay: 108.011 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 75.35 Mbit/s
95th percentile per-packet one-way delay: 108.011 ms
Loss rate: 0.15%
```
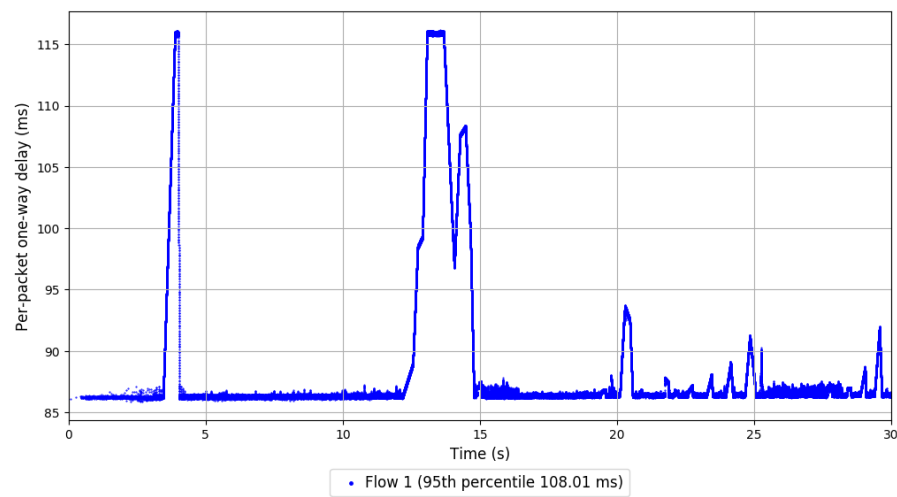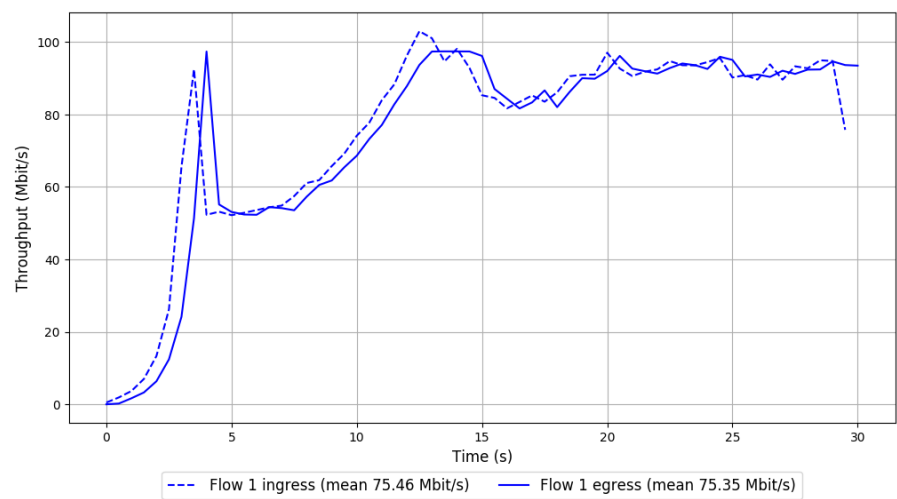
Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2019-01-18 19:44:48
End at: 2019-01-18 19:45:18
Local clock offset: -1.948 ms
Remote clock offset: 6.209 ms


# Below is generated by plot.py at 2019-01-18 21:02:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.94 Mbit/s
95th percentile per-packet one-way delay: 107.564 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 75.94 Mbit/s
95th percentile per-packet one-way delay: 107.564 ms
Loss rate: 0.15%
```
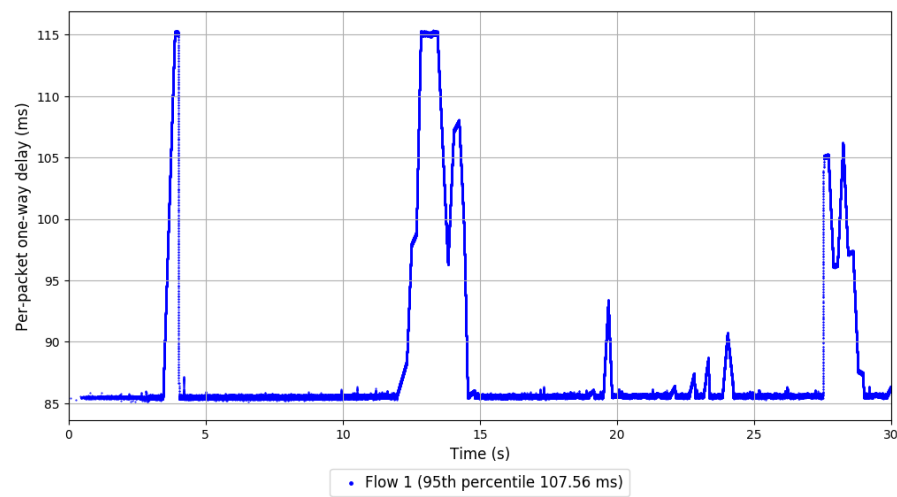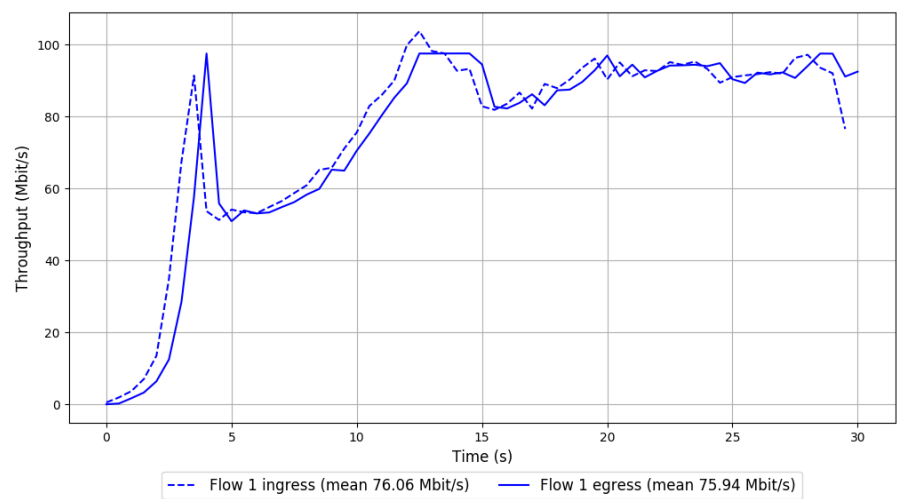
Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 76.06 Mbit/s) — — — — Flow 1 egress (mean 75.94 Mbit/s)

• Flow 1 (95th percentile 107.56 ms)

```
Run 4: Statistics of PCC-Vivace

Start at: 2019-01-18 20:09:46
End at: 2019-01-18 20:10:16
Local clock offset: -1.383 ms
Remote clock offset: 3.063 ms


# Below is generated by plot.py at 2019-01-18 21:02:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.25 Mbit/s
95th percentile per-packet one-way delay: 107.299 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 74.25 Mbit/s
95th percentile per-packet one-way delay: 107.299 ms
Loss rate: 0.17%
```
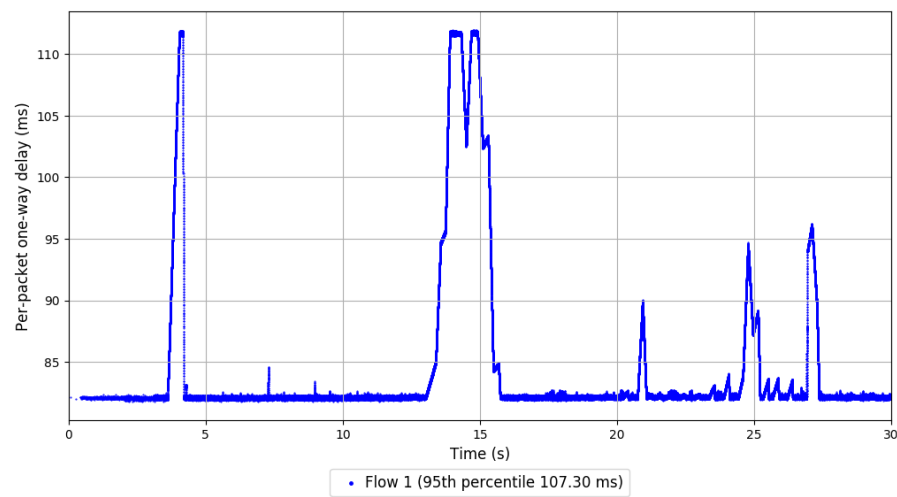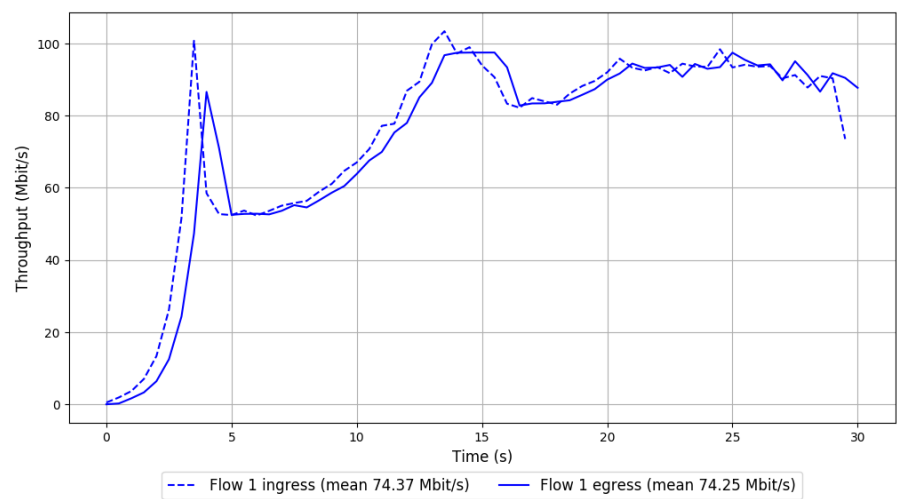
Run 4: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 74.37 Mbit/s)   Flow 1 egress (mean 74.25 Mbit/s)

Flow 1 (95th percentile 107.30 ms)

```
Run 5: Statistics of PCC-Vivace

Start at: 2019-01-18 20:34:22
End at: 2019-01-18 20:34:52
Local clock offset: -8.737 ms
Remote clock offset: 10.26 ms


# Below is generated by plot.py at 2019-01-18 21:02:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.26 Mbit/s
95th percentile per-packet one-way delay: 93.574 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 77.26 Mbit/s
95th percentile per-packet one-way delay: 93.574 ms
Loss rate: 0.04%
```
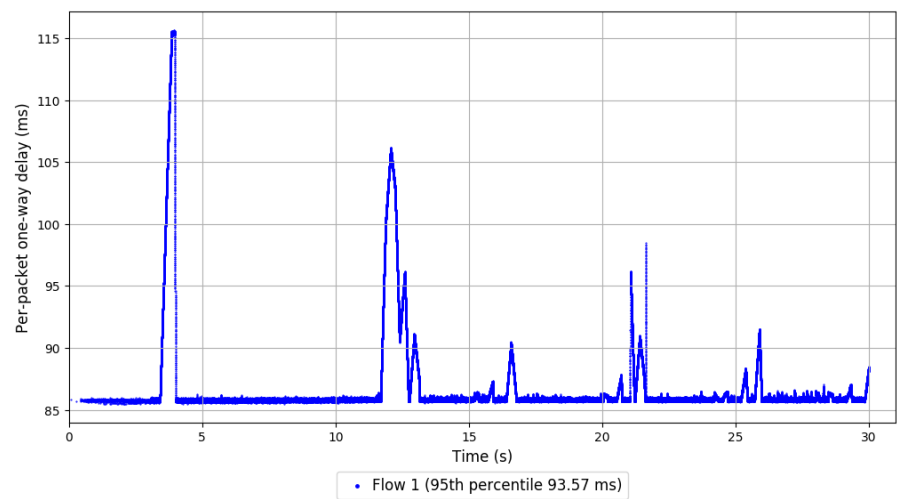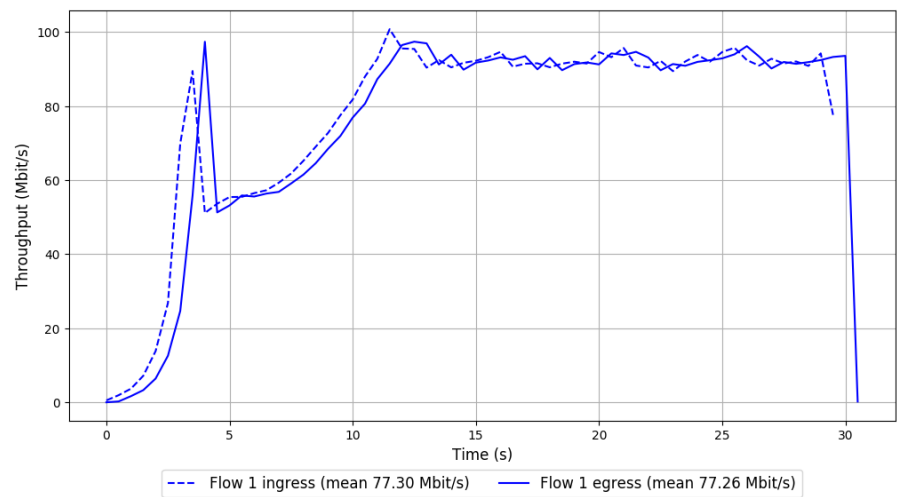
Run 5: Report of PCC-Vivace — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2019-01-18 18:52:03
End at: 2019-01-18 18:52:34
Local clock offset: -6.435 ms
Remote clock offset: 4.965 ms


# Below is generated by plot.py at 2019-01-18 21:02:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 81.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 81.085 ms
Loss rate: 0.00%
```
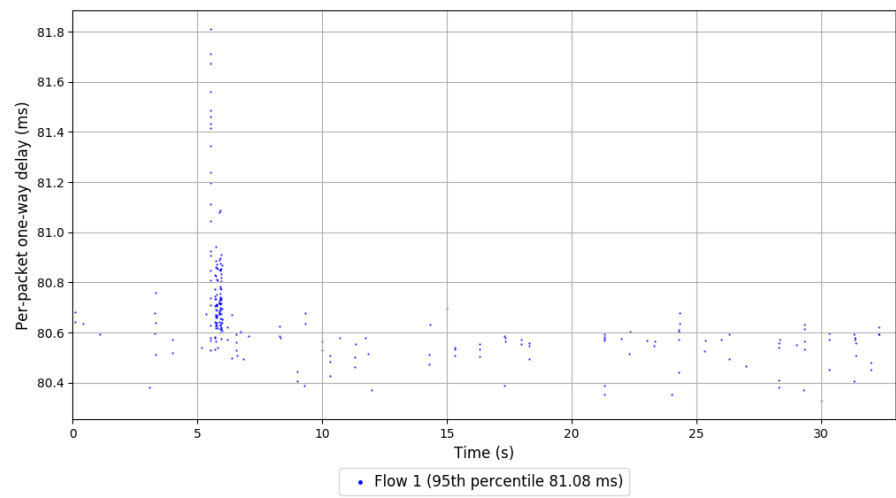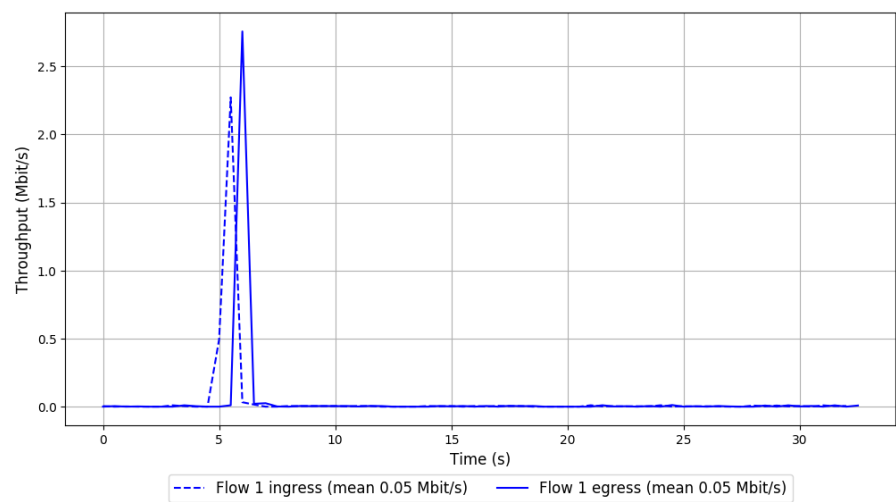
Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2019-01-18 19:16:43
End at: 2019-01-18 19:17:13
Local clock offset: -6.707 ms
Remote clock offset: 9.855 ms


# Below is generated by plot.py at 2019-01-18 21:02:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.338 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.338 ms
Loss rate: 0.00%
```
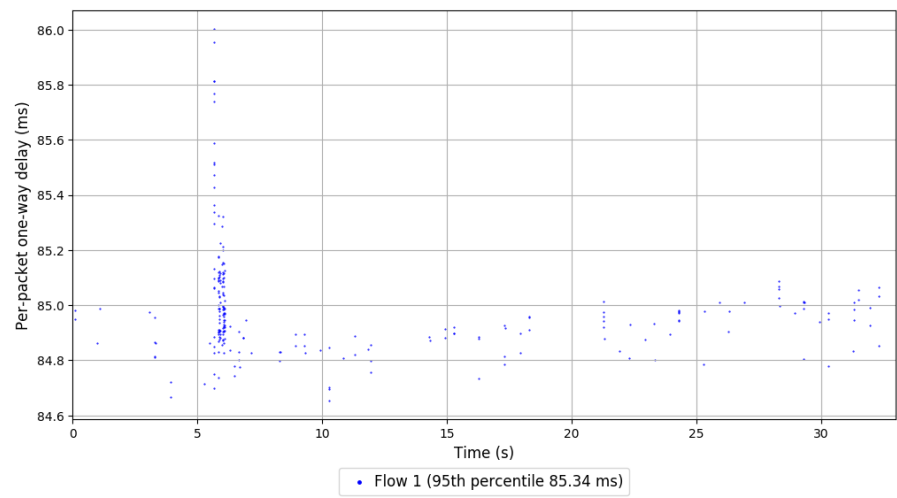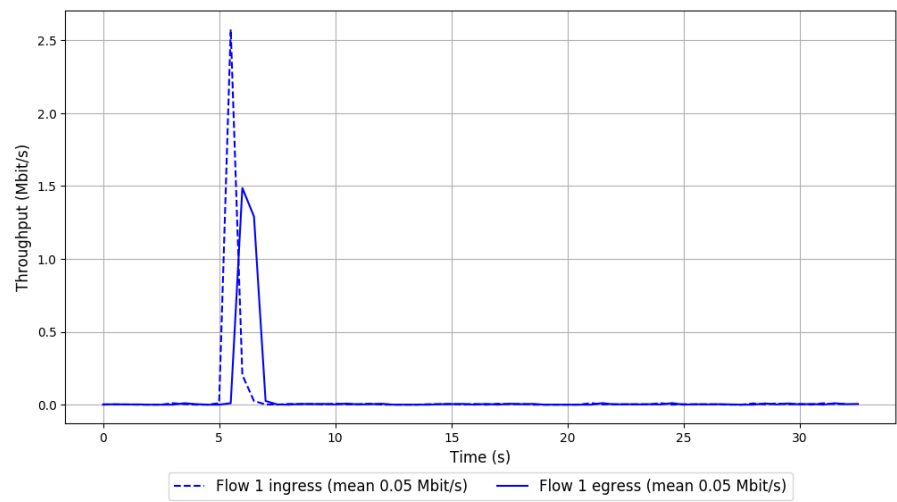
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2019-01-18 19:41:22
End at: 2019-01-18 19:41:52
Local clock offset: -2.199 ms
Remote clock offset: 3.705 ms


# Below is generated by plot.py at 2019-01-18 21:02:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 80.758 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 80.758 ms
Loss rate: 0.00%
```
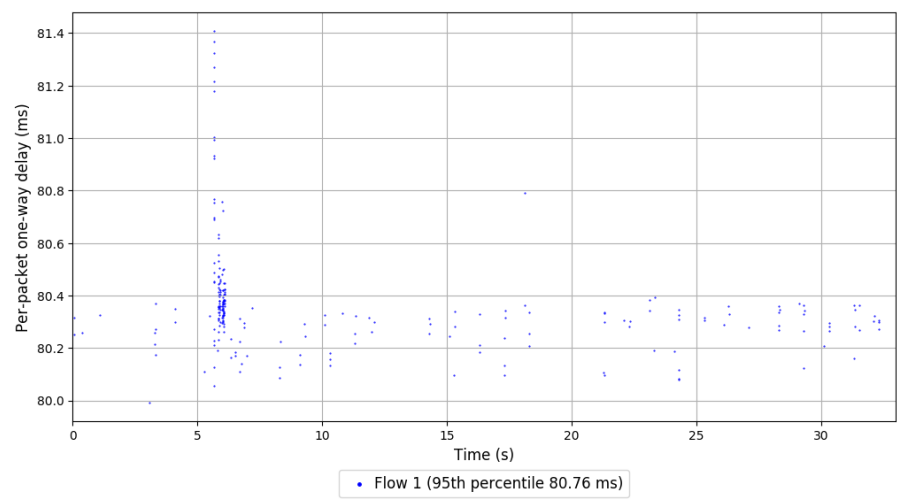
Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2019-01-18 20:06:20
End at: 2019-01-18 20:06:50
Local clock offset: -1.616 ms
Remote clock offset: 6.407 ms


# Below is generated by plot.py at 2019-01-18 21:02:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.458 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.458 ms
Loss rate: 0.00%
```
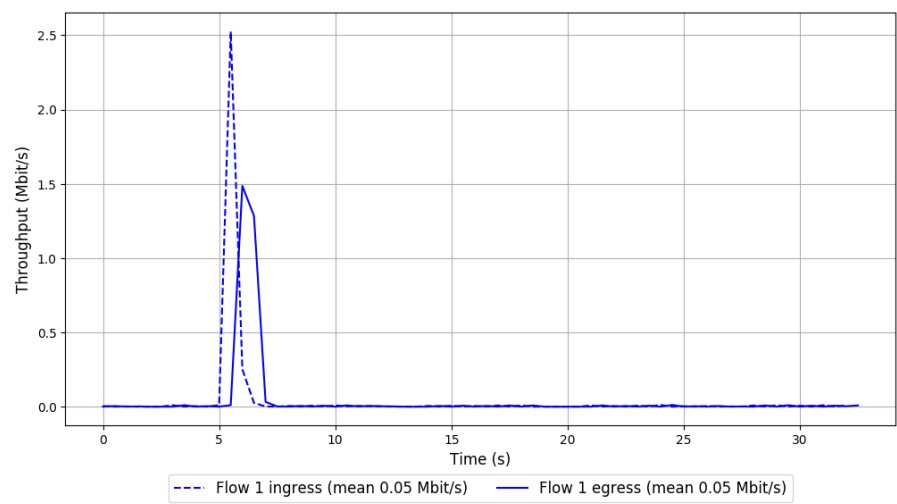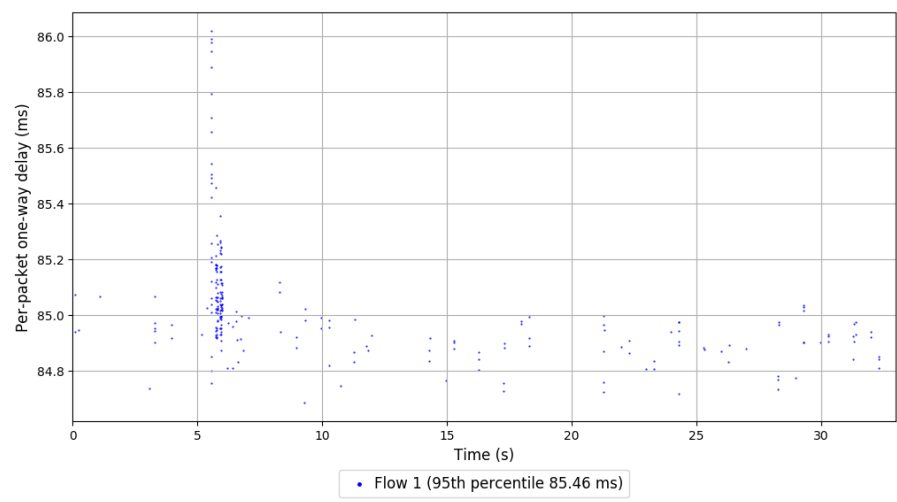
Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2019-01-18 20:30:56
End at: 2019-01-18 20:31:26
Local clock offset: -7.939 ms
Remote clock offset: 4.073 ms


# Below is generated by plot.py at 2019-01-18 21:02:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 81.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 81.640 ms
Loss rate: 0.00%
```
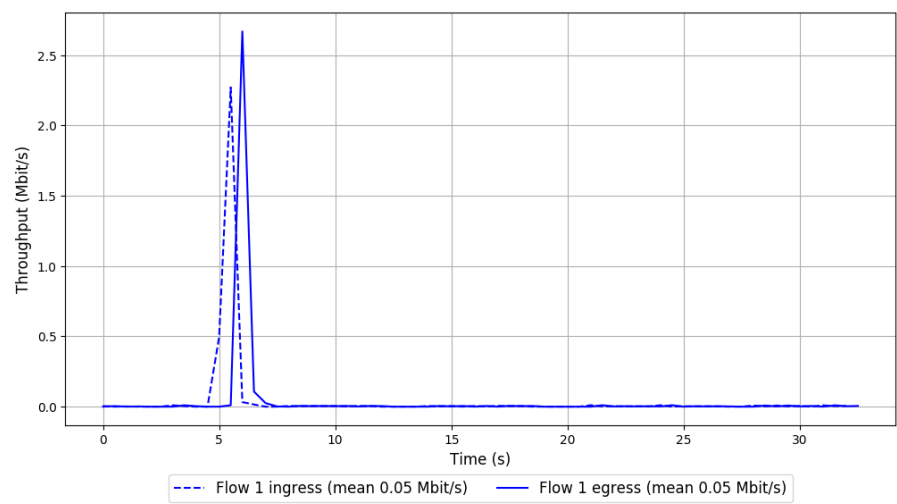
Run 5: Report of WebRTC media — Data Link