Pantheon Report

Generated at 2019-02-05 04:37:28 (UTC).

Data path: AWS California 2 on `ens5` (*local*) →Mexico on `em1` (*remote*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.
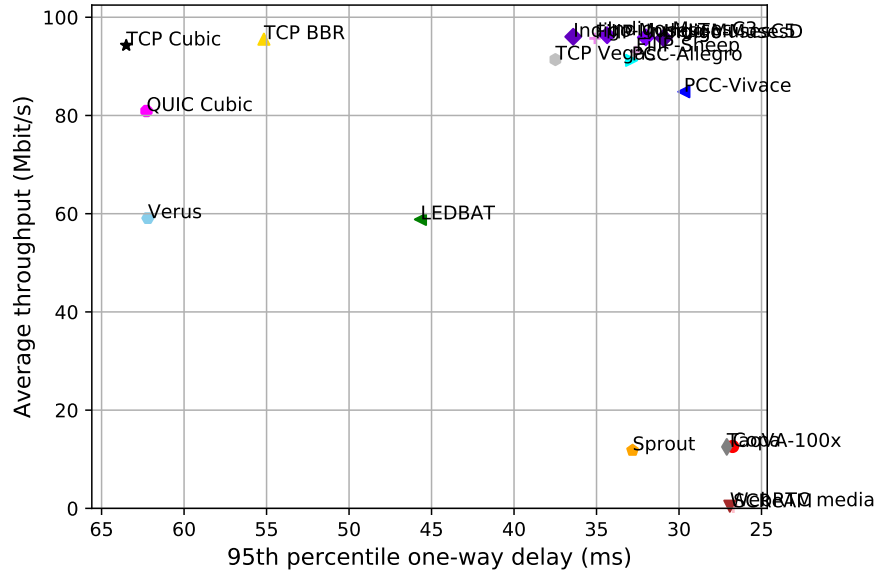
```
System info:
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
 M src/ScreamClient
 M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```
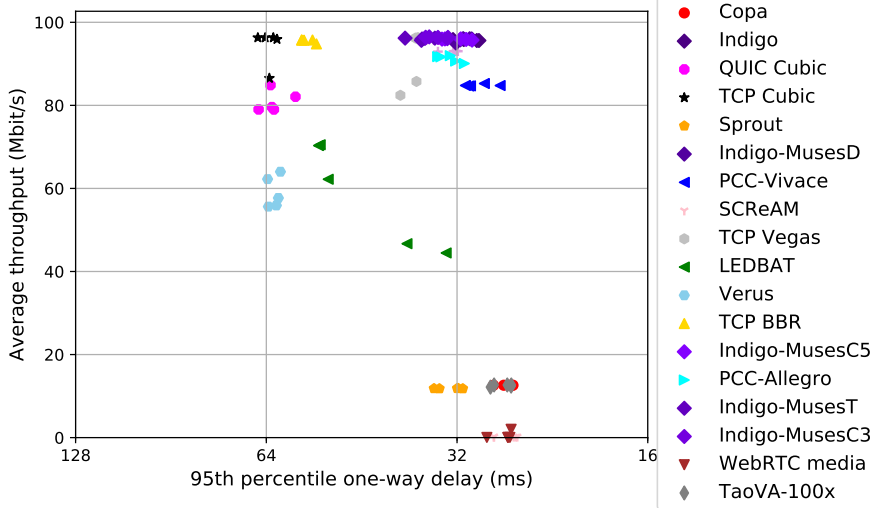
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from AWS California 2 to Mexico, 5 runs of 30s each per scheme
(mean of all runs by scheme)

test from AWS California 2 to Mexico, 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	95.54	55.16	1.11
Copa	5	12.61	26.75	70.69
TCP Cubic	5	94.27	63.51	0.59
FillP	5	95.69	35.09	0.66
FillP-Sheep	5	93.03	32.62	0.59
Indigo	5	95.74	30.93	0.00
Indigo-MusesC3	5	96.34	34.36	0.07
Indigo-MusesC5	5	95.91	32.02	0.02
Indigo-MusesD	5	95.80	30.93	0.01
Indigo-MusesT	5	96.03	36.41	0.90
LEDBAT	5	58.84	45.67	0.06
PCC-Allegro	5	91.22	32.88	0.71
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	80.91	62.28	1.57
SCReAM	5	0.21	26.71	0.00
Sprout	5	11.83	32.82	0.00
TaoVA-100x	5	12.52	27.11	74.54
TCP Vegas	5	91.38	37.49	0.29
Verus	5	59.10	62.20	22.26
PCC-Vivace	5	84.83	29.71	0.01
WebRTC media	5	0.44	26.92	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2019-02-05 02:43:29
End at: 2019-02-05 02:43:59
Local clock offset: 3.044 ms
Remote clock offset: -6.444 ms

# Below is generated by plot.py at 2019-02-05 04:27:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 56.276 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 56.276 ms
Loss rate: 1.18%
```
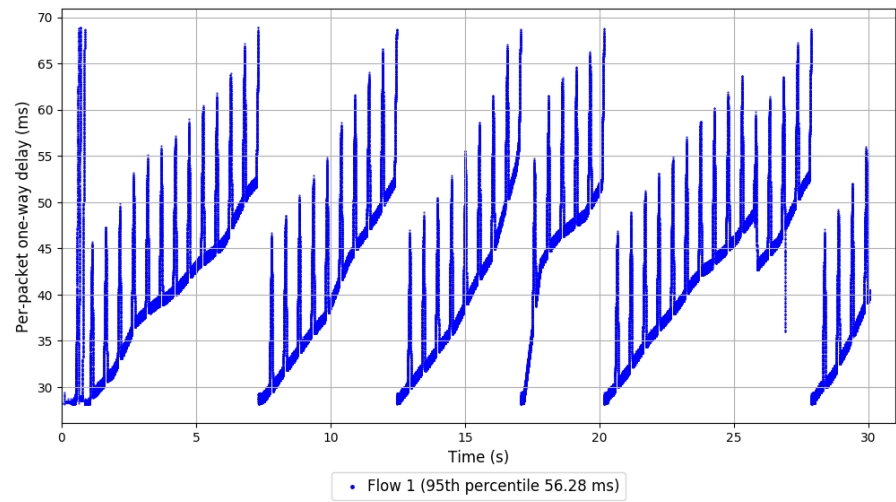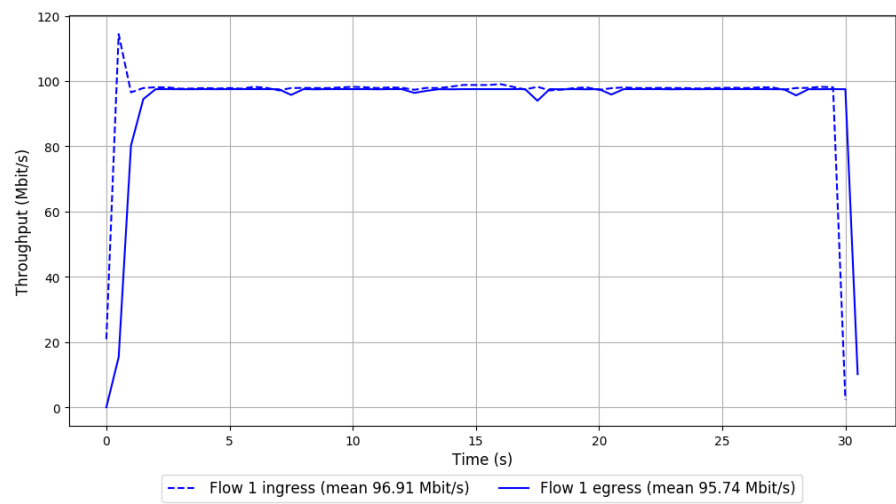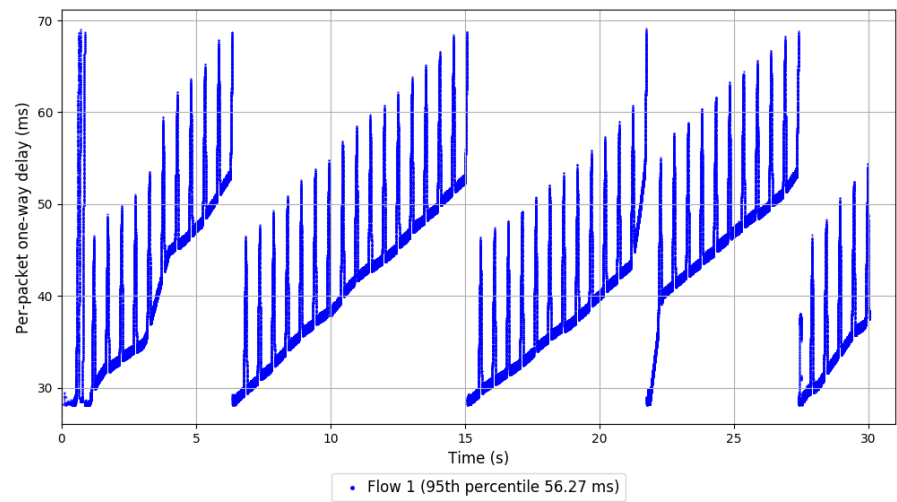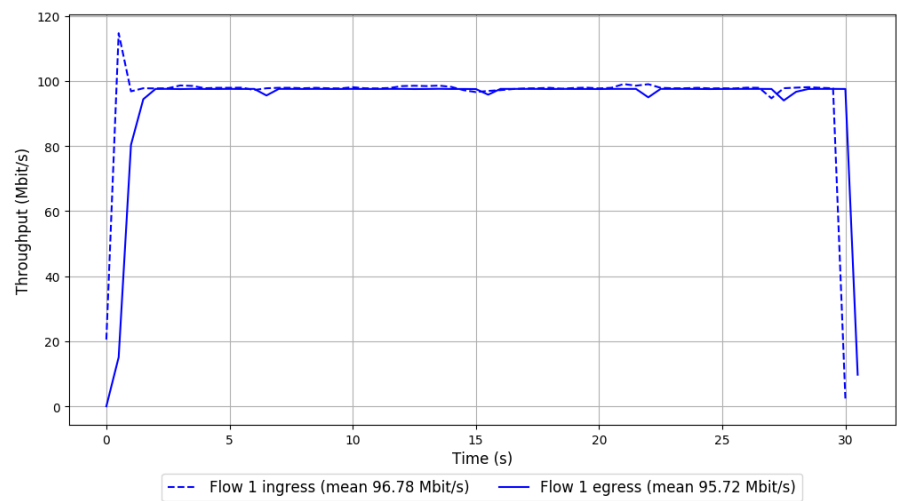
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2019-02-05 03:08:10
End at: 2019-02-05 03:08:40
Local clock offset: 2.245 ms
Remote clock offset: -5.943 ms


# Below is generated by plot.py at 2019-02-05 04:27:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 56.270 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 56.270 ms
Loss rate: 1.06%
```
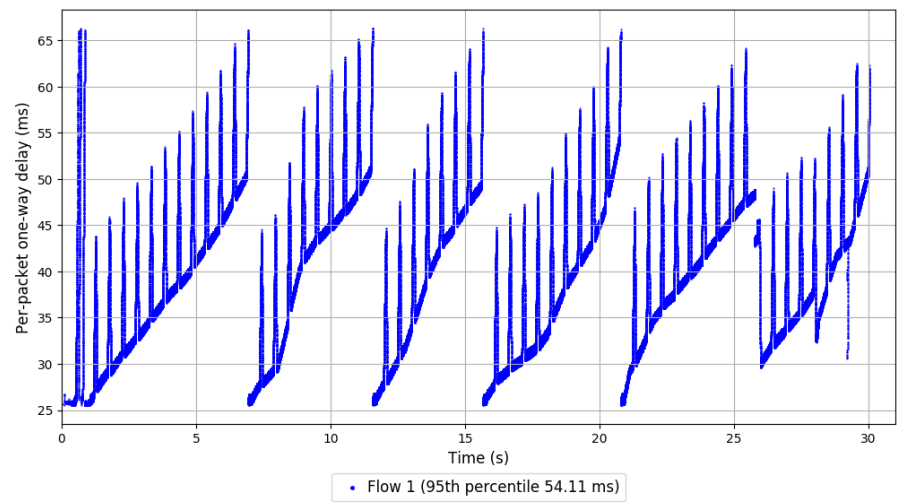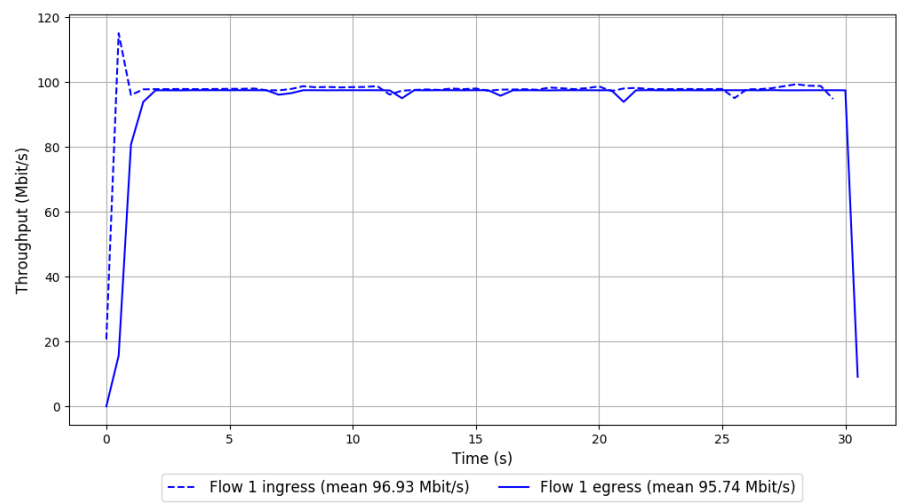
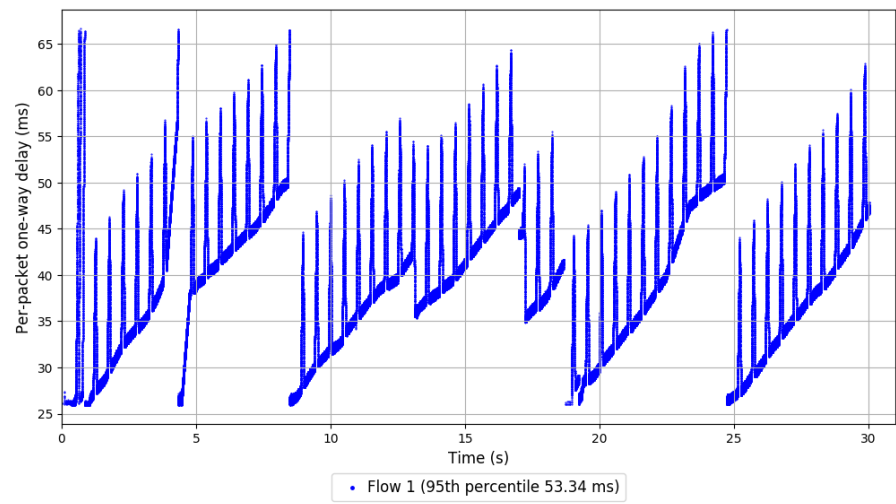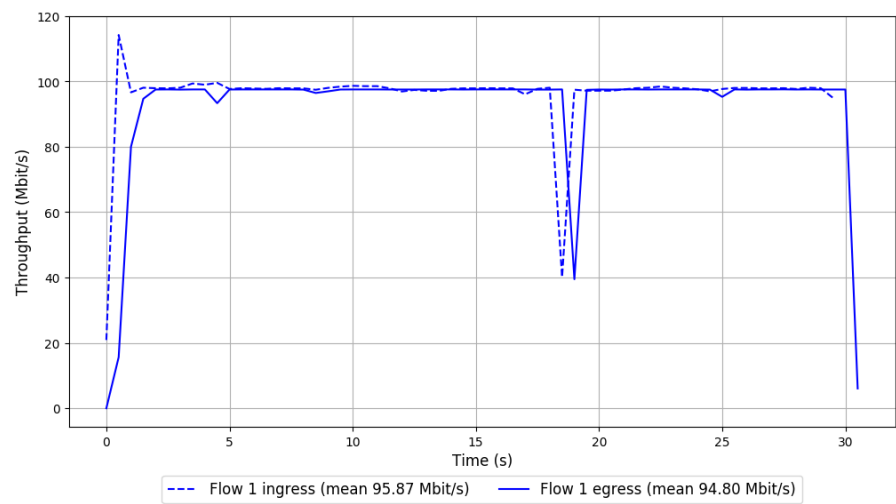Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2019-02-05 03:32:26
End at: 2019-02-05 03:32:56
Local clock offset: 2.542 ms
Remote clock offset: -8.027 ms


# Below is generated by plot.py at 2019-02-05 04:27:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 54.110 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 54.110 ms
Loss rate: 1.11%
```

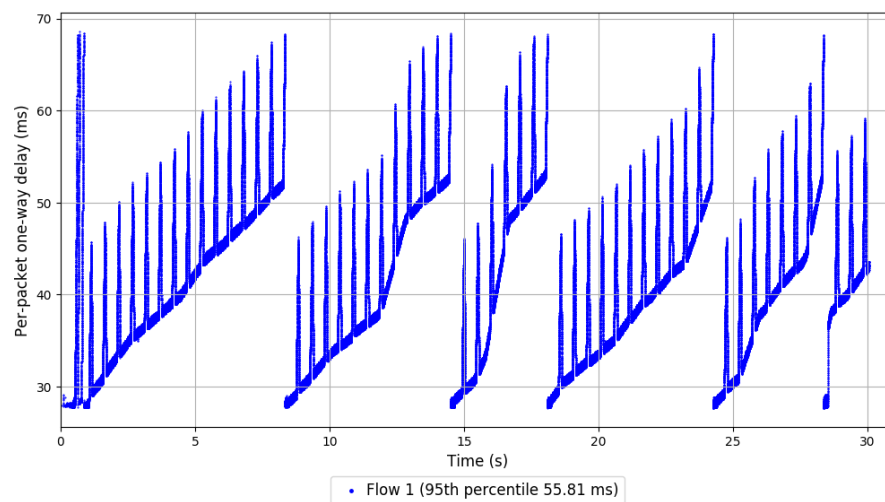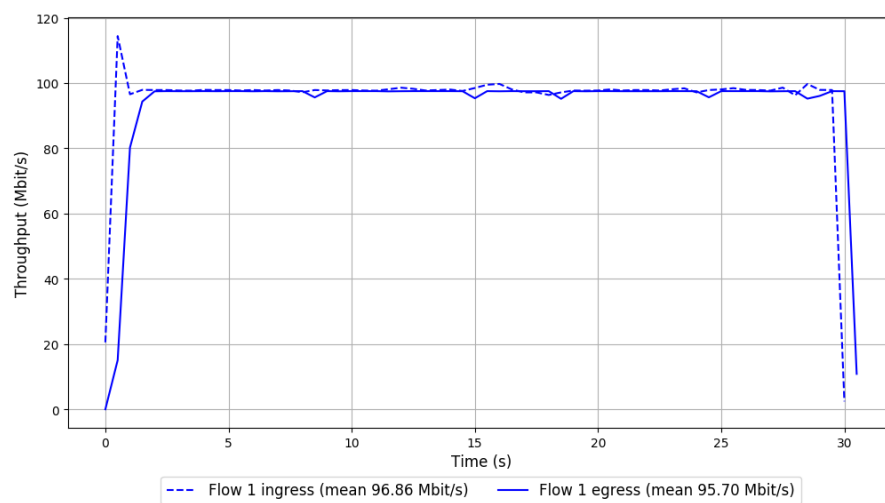# Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.93 Mbit/s)   Flow 1 egress (mean 95.74 Mbit/s)

Flow 1 (95th percentile 54.11 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2019-02-05 03:56:41
End at: 2019-02-05 03:57:11
Local clock offset: 5.453 ms
Remote clock offset: -7.366 ms


# Below is generated by plot.py at 2019-02-05 04:27:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.80 Mbit/s
95th percentile per-packet one-way delay: 53.344 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 94.80 Mbit/s
95th percentile per-packet one-way delay: 53.344 ms
Loss rate: 1.04%
```

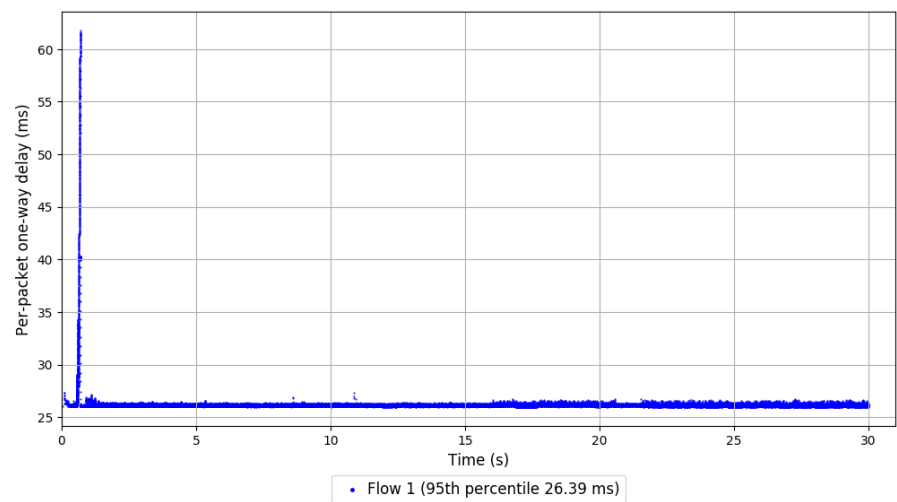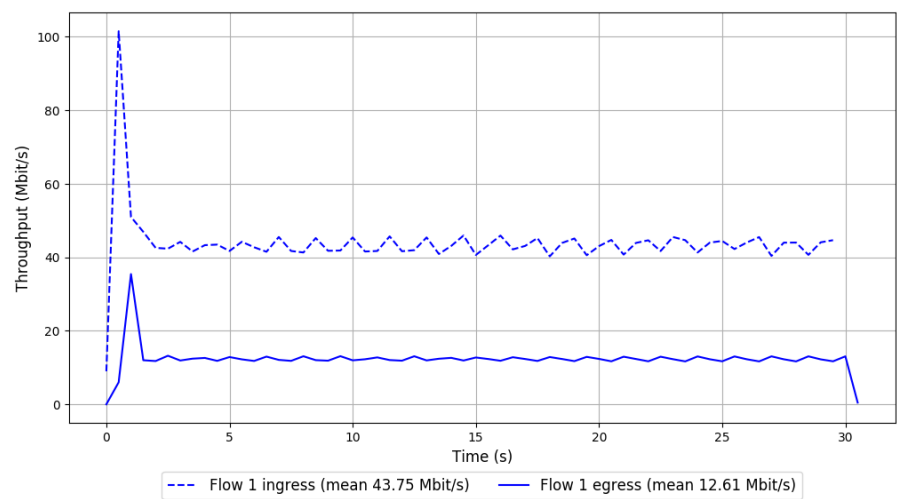Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2019-02-05 04:21:17
End at: 2019-02-05 04:21:47
Local clock offset: 5.527 ms
Remote clock offset: -5.227 ms


# Below is generated by plot.py at 2019-02-05 04:27:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 55.806 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 55.806 ms
Loss rate: 1.14%
```

Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.86 Mbit/s)   Flow 1 egress (mean 95.70 Mbit/s)

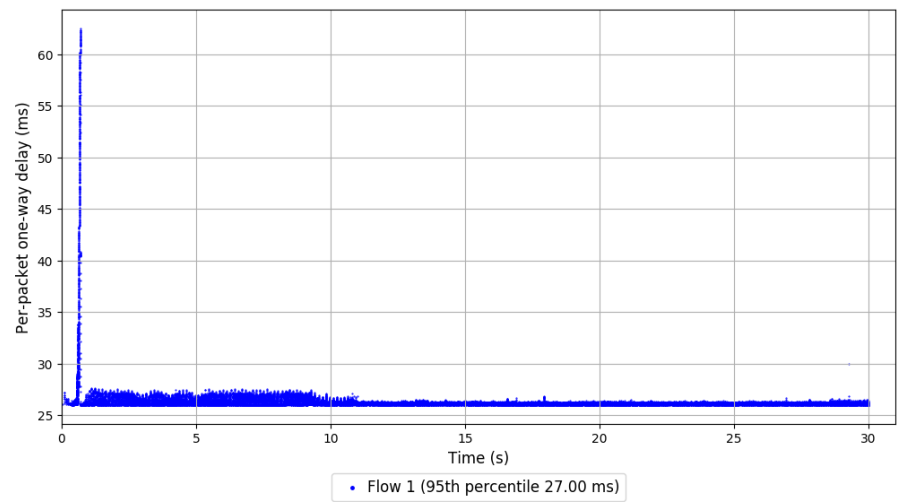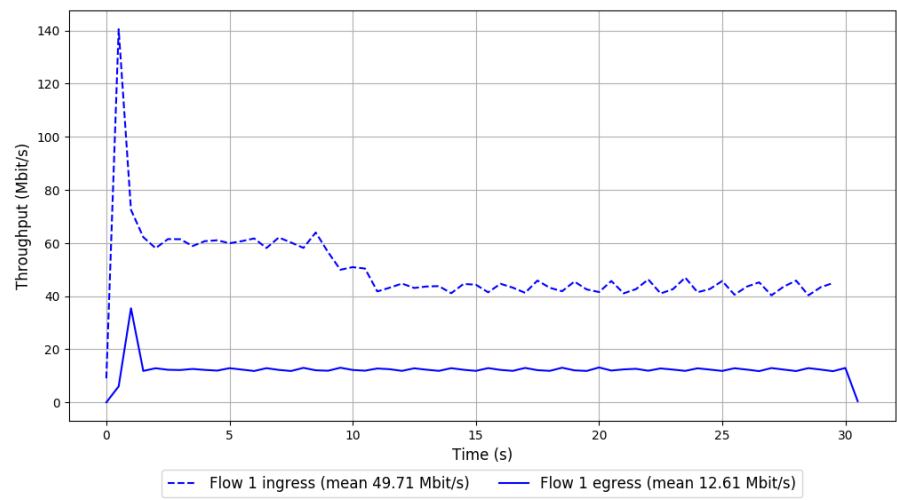Flow 1 (95th percentile 55.81 ms)

```
Run 1: Statistics of Copa

Start at: 2019-02-05 02:47:07
End at: 2019-02-05 02:47:37
Local clock offset: 2.937 ms
Remote clock offset: -8.399 ms

# Below is generated by plot.py at 2019-02-05 04:27:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 26.392 ms
Loss rate: 71.17%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 26.392 ms
Loss rate: 71.17%
```
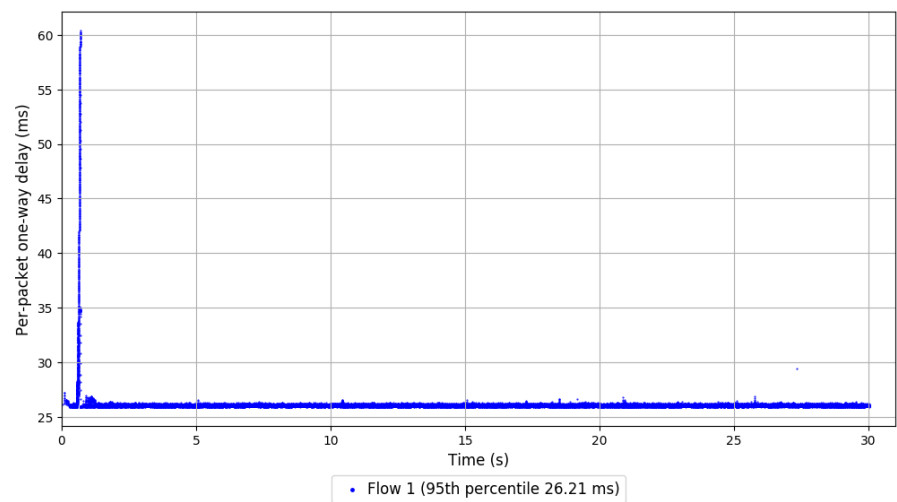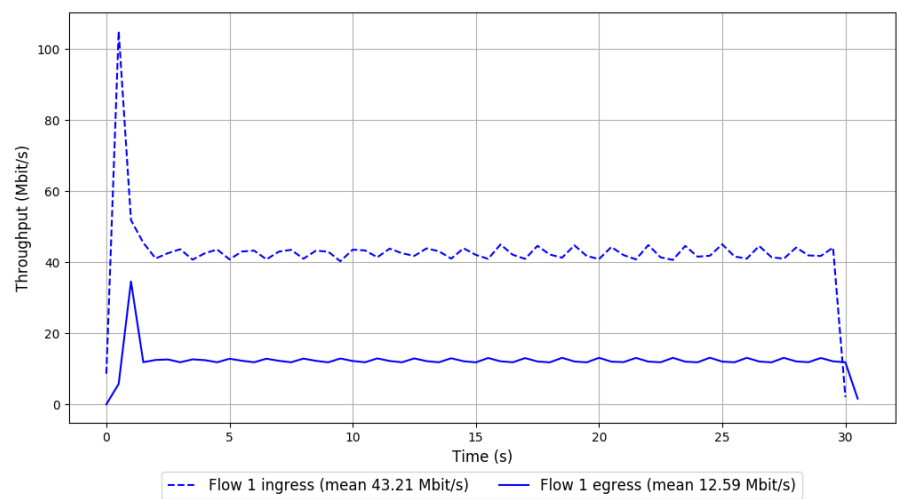
Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2019-02-05 03:11:38
End at: 2019-02-05 03:12:08
Local clock offset: 2.272 ms
Remote clock offset: -7.917 ms


# Below is generated by plot.py at 2019-02-05 04:27:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 27.005 ms
Loss rate: 74.63%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 27.005 ms
Loss rate: 74.63%
```

Run 2: Report of Copa — Data Link

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```
Run 3: Statistics of Copa

Start at: 2019-02-05 03:35:54
End at: 2019-02-05 03:36:24
Local clock offset: 2.589 ms
Remote clock offset: -7.628 ms


# Below is generated by plot.py at 2019-02-05 04:27:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 26.215 ms
Loss rate: 70.85%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 26.215 ms
Loss rate: 70.85%
```

Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2019-02-05 04:00:21
End at: 2019-02-05 04:00:51
Local clock offset: 5.93 ms
Remote clock offset: -7.66 ms


# Below is generated by plot.py at 2019-02-05 04:27:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 26.112 ms
Loss rate: 68.33%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 26.112 ms
Loss rate: 68.33%
```
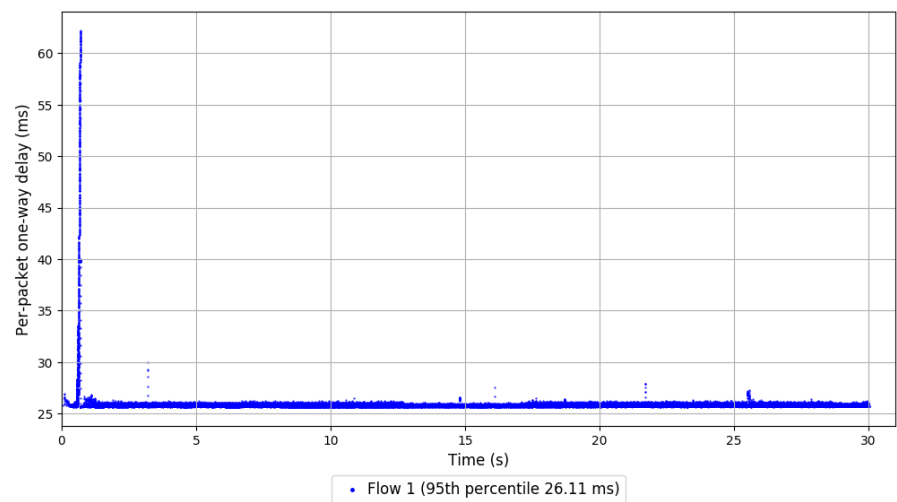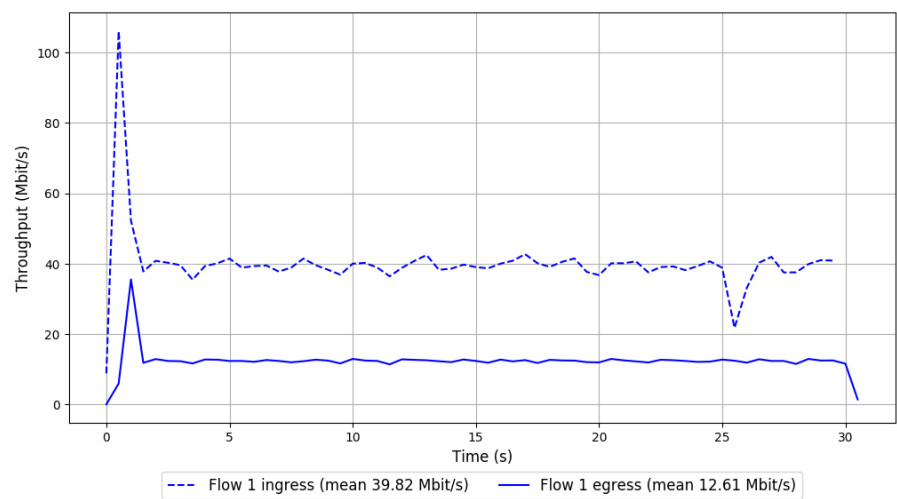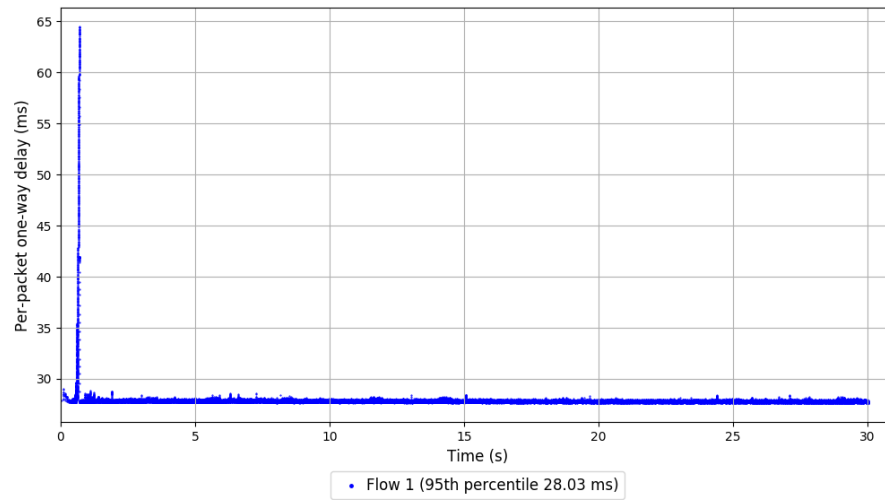
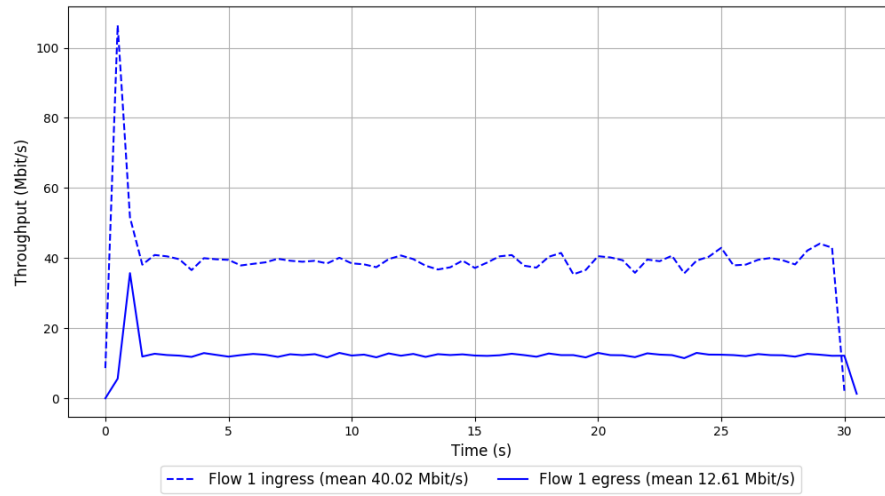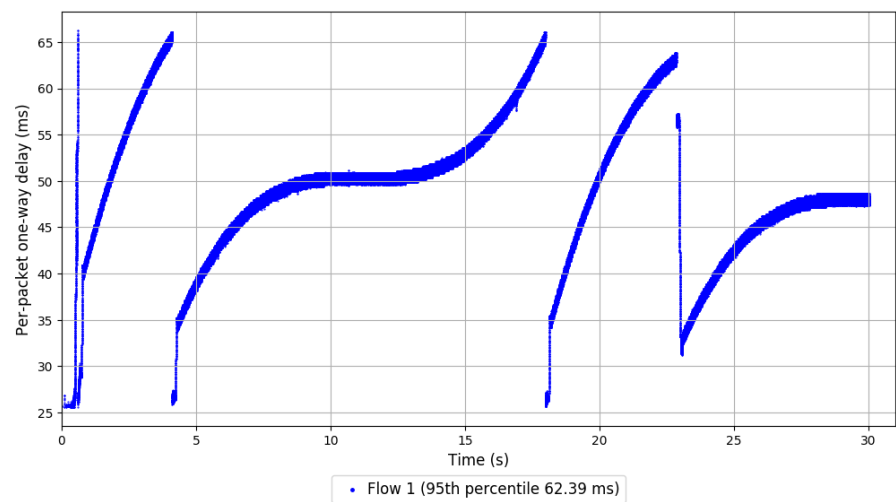Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2019-02-05 04:24:46
End at: 2019-02-05 04:25:16
Local clock offset: 4.765 ms
Remote clock offset: -5.368 ms


# Below is generated by plot.py at 2019-02-05 04:27:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 28.027 ms
Loss rate: 68.49%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 28.027 ms
Loss rate: 68.49%
```

Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 40.02 Mbit/s)   Flow 1 egress (mean 12.61 Mbit/s)

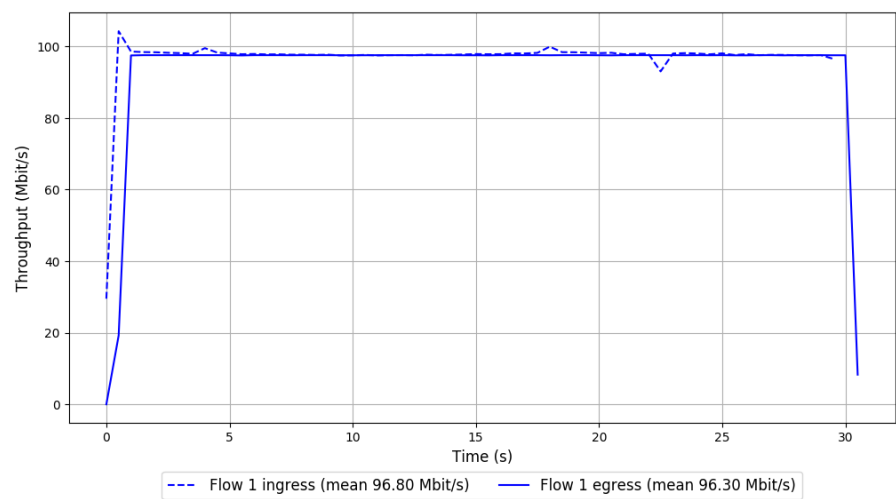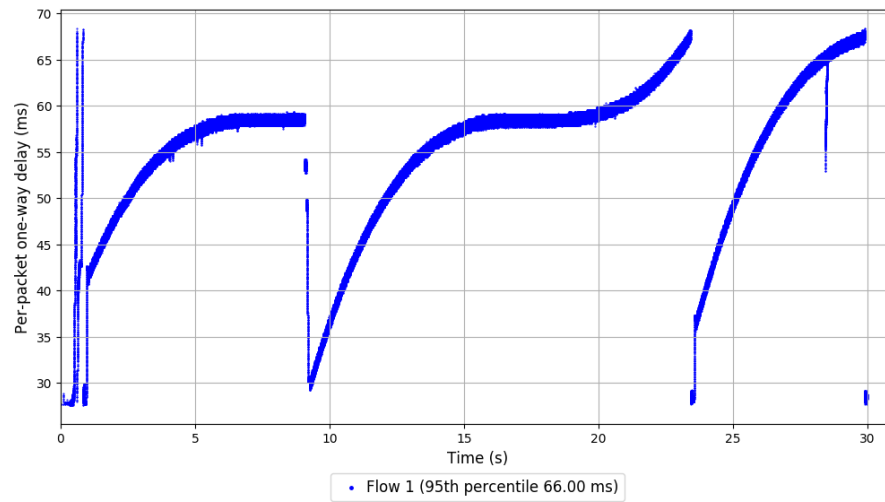Flow 1 (95th percentile 28.03 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2019-02-05 02:29:29
End at: 2019-02-05 02:29:59
Local clock offset: 3.759 ms
Remote clock offset: -9.159 ms


# Below is generated by plot.py at 2019-02-05 04:28:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 62.390 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 62.390 ms
Loss rate: 0.44%
```
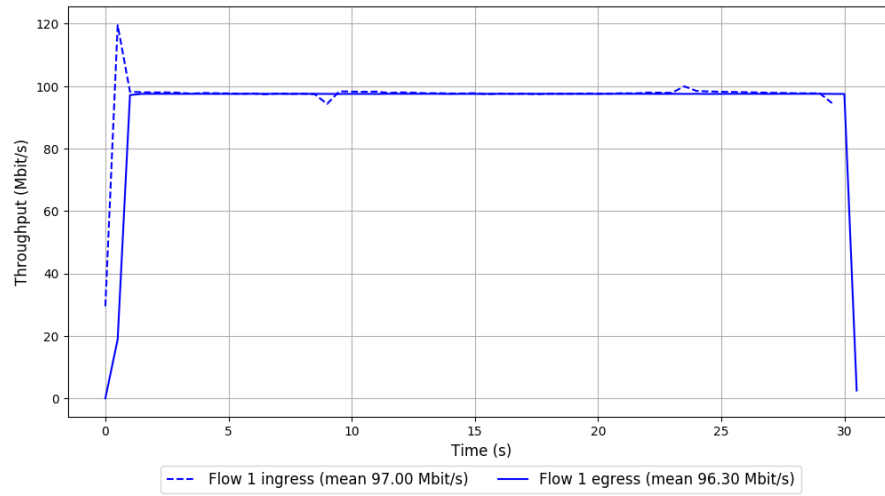
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2019-02-05 02:54:10
End at: 2019-02-05 02:54:40
Local clock offset: 2.449 ms
Remote clock offset: -6.714 ms


# Below is generated by plot.py at 2019-02-05 04:28:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 66.001 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 66.001 ms
Loss rate: 0.72%
```

Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2019-02-05 03:18:32
End at: 2019-02-05 03:19:02
Local clock offset: 2.345 ms
Remote clock offset: -5.8 ms


# Below is generated by plot.py at 2019-02-05 04:28:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 61.574 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 61.574 ms
Loss rate: 0.31%
```
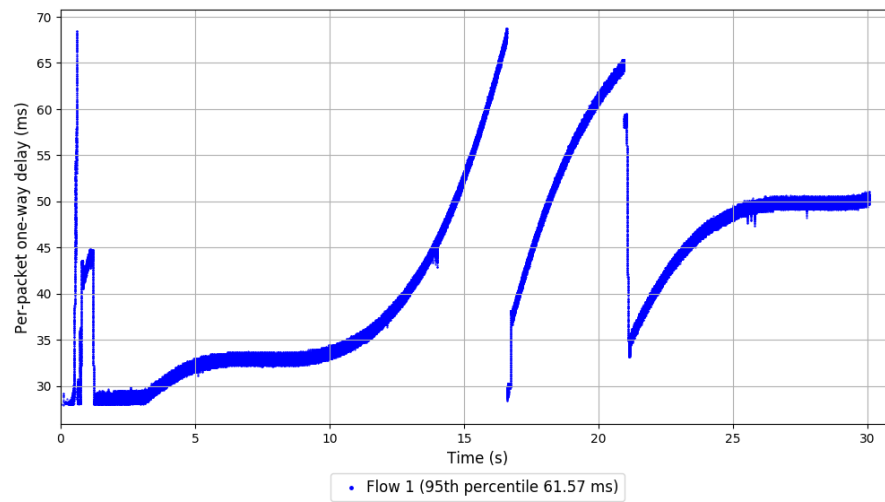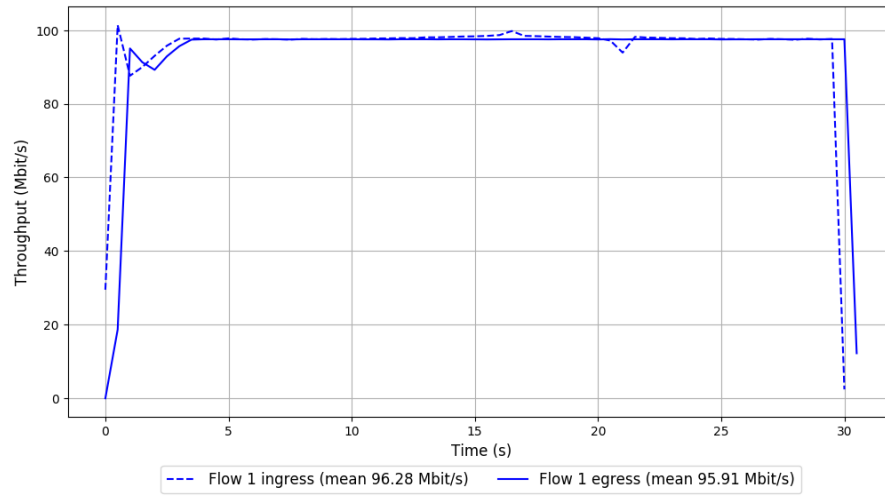
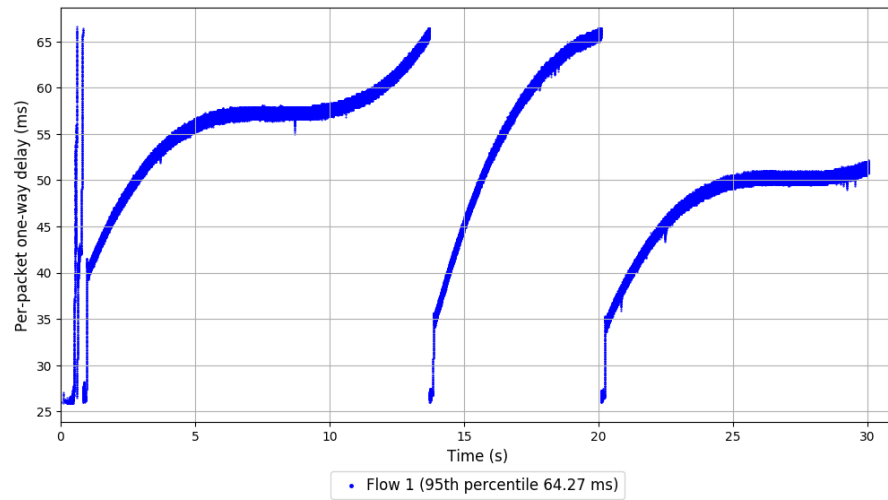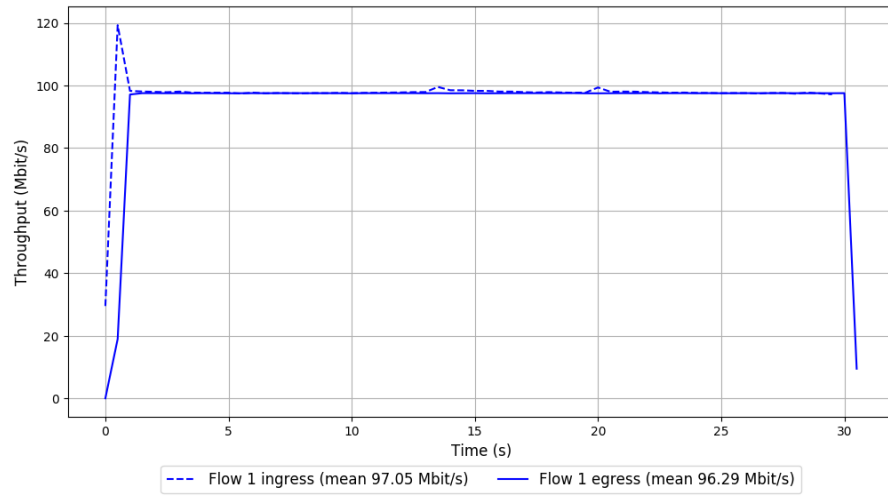Run 3: Report of TCP Cubic — Data Link

```
Run 4: Statistics of TCP Cubic

Start at: 2019-02-05 03:42:46
End at: 2019-02-05 03:43:16
Local clock offset: 2.692 ms
Remote clock offset: -7.522 ms


# Below is generated by plot.py at 2019-02-05 04:28:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.29 Mbit/s
95th percentile per-packet one-way delay: 64.269 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 96.29 Mbit/s
95th percentile per-packet one-way delay: 64.269 ms
Loss rate: 0.69%
```
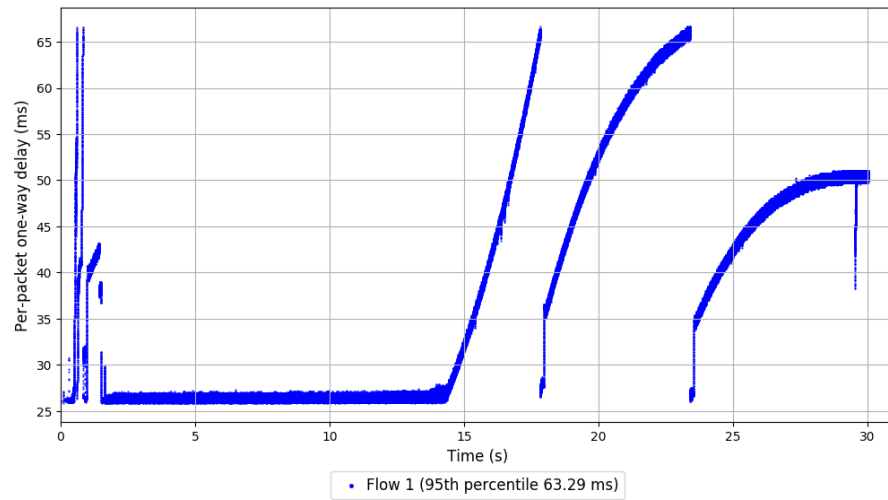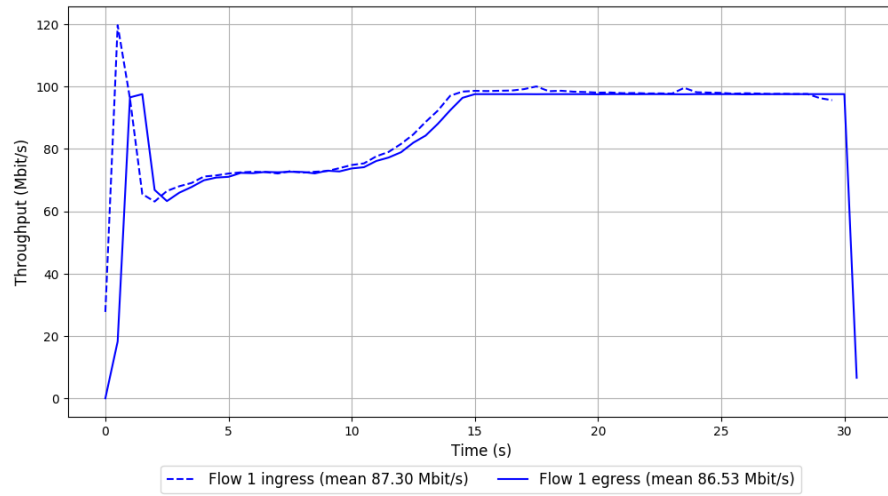
Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2019-02-05 04:07:13
End at: 2019-02-05 04:07:43
Local clock offset: 6.667 ms
Remote clock offset: -7.348 ms


# Below is generated by plot.py at 2019-02-05 04:28:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.53 Mbit/s
95th percentile per-packet one-way delay: 63.293 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 86.53 Mbit/s
95th percentile per-packet one-way delay: 63.293 ms
Loss rate: 0.80%
```

Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 87.30 Mbit/s) --- Flow 1 egress (mean 86.53 Mbit/s)

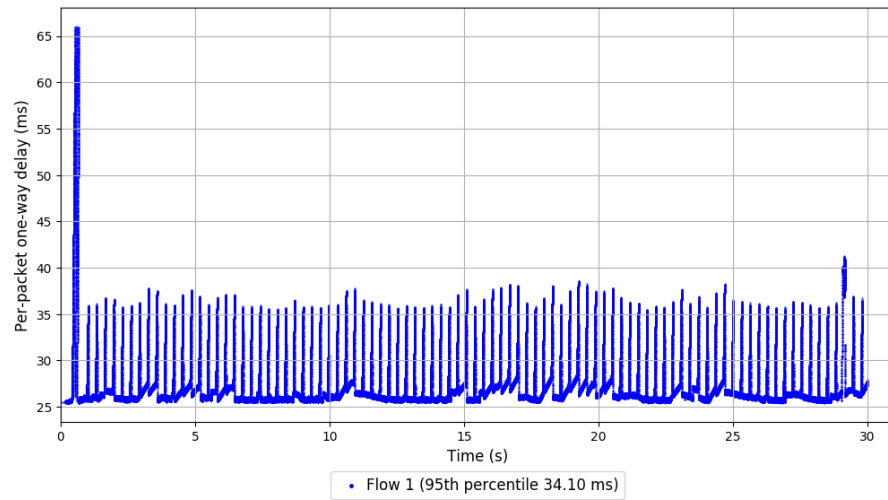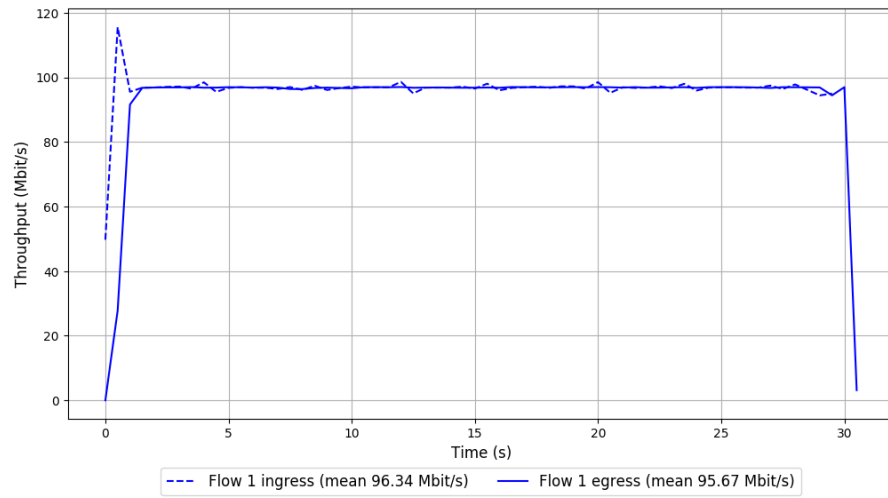Flow 1 (95th percentile 63.29 ms)

```
Run 1: Statistics of FillP

Start at: 2019-02-05 02:28:19
End at: 2019-02-05 02:28:49
Local clock offset: 3.902 ms
Remote clock offset: -9.107 ms


# Below is generated by plot.py at 2019-02-05 04:29:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 34.098 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 34.098 ms
Loss rate: 0.68%
```

Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 96.34 Mbit/s) --- Flow 1 egress (mean 95.67 Mbit/s)

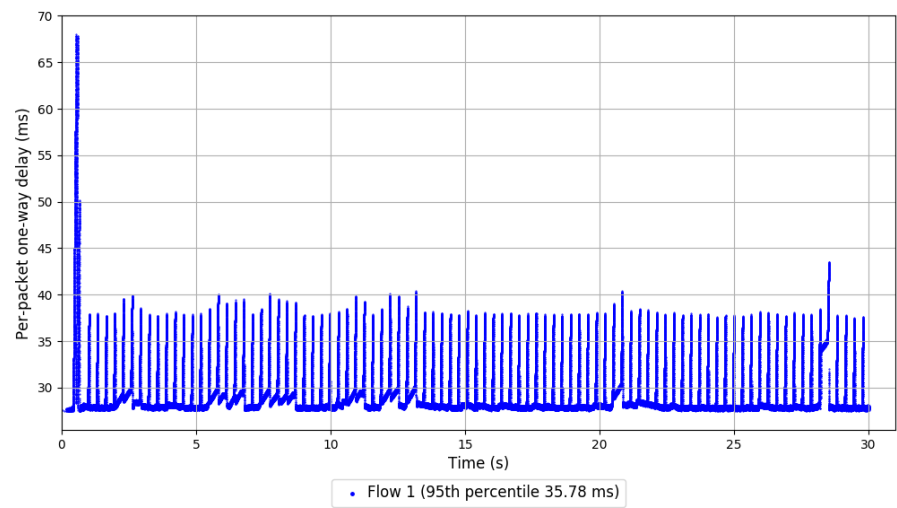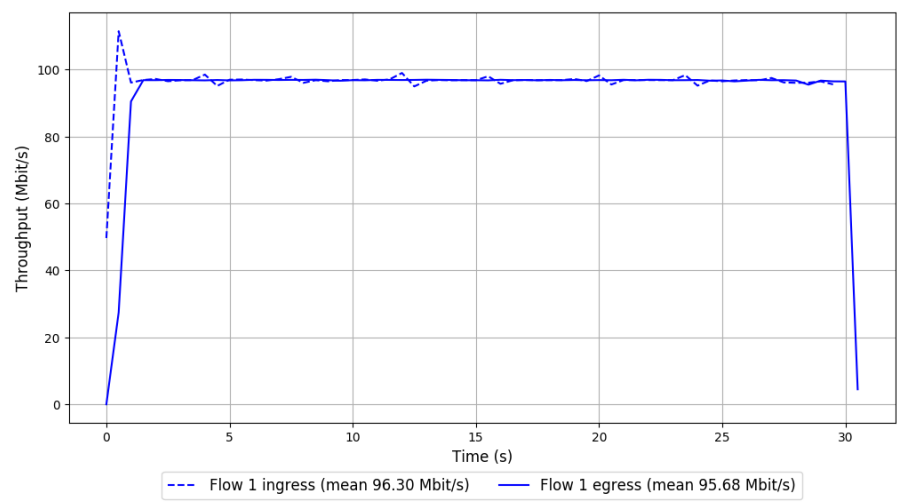Flow 1 (95th percentile 34.10 ms)

```
Run 2: Statistics of FillP

Start at: 2019-02-05 02:52:58
End at: 2019-02-05 02:53:28
Local clock offset: 2.498 ms
Remote clock offset: -6.715 ms


# Below is generated by plot.py at 2019-02-05 04:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 35.783 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 35.783 ms
Loss rate: 0.64%
```

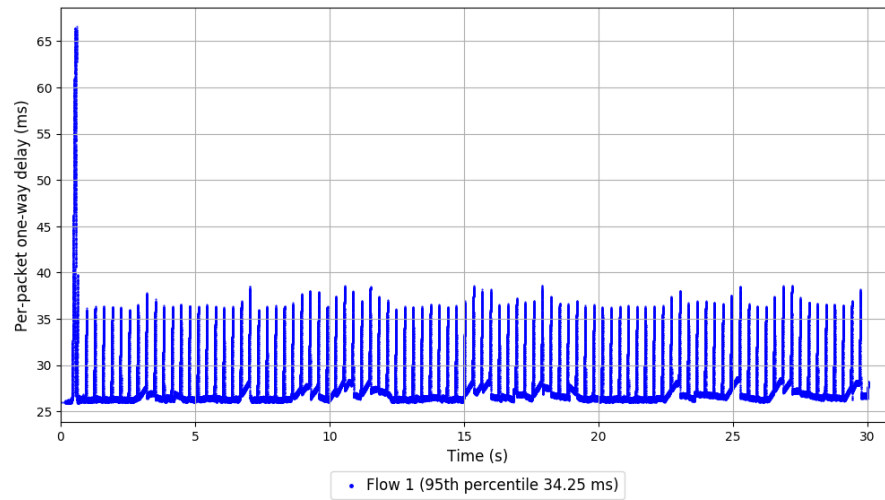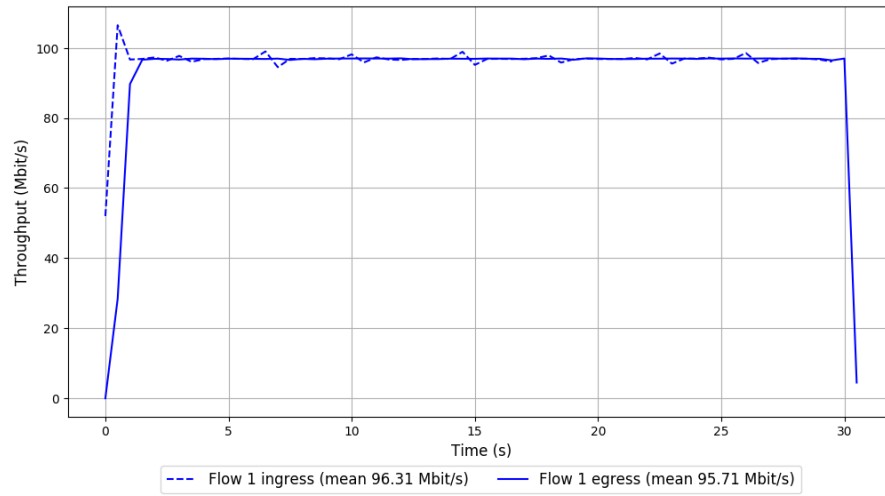Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2019-02-05 03:17:22
End at: 2019-02-05 03:17:52
Local clock offset: 2.341 ms
Remote clock offset: -7.746 ms


# Below is generated by plot.py at 2019-02-05 04:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 34.252 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 34.252 ms
Loss rate: 0.61%
```

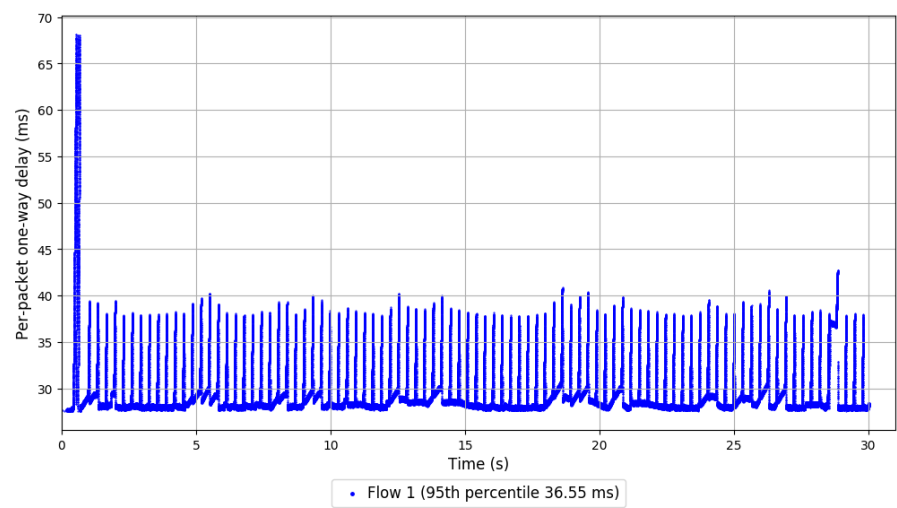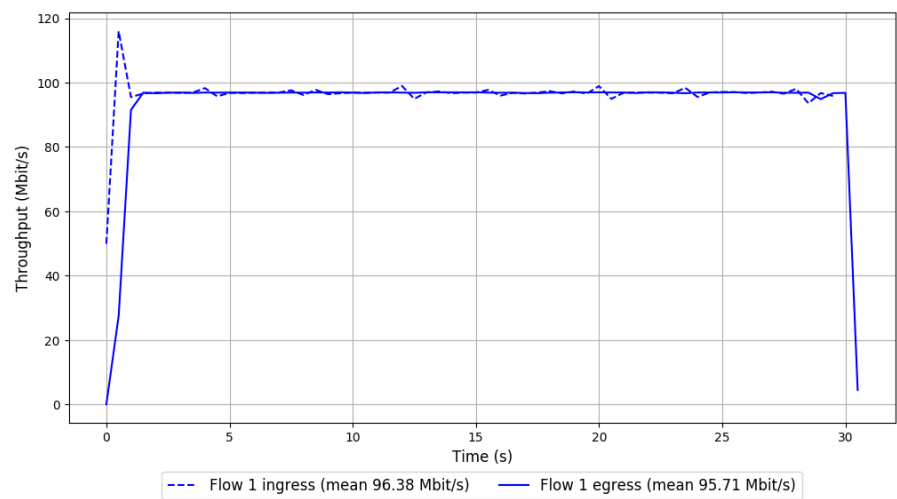Run 3: Report of FillP — Data Link

```
Run 4: Statistics of FillP

Start at: 2019-02-05 03:41:36
End at: 2019-02-05 03:42:06
Local clock offset: 2.695 ms
Remote clock offset: -5.788 ms


# Below is generated by plot.py at 2019-02-05 04:29:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 36.548 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 36.548 ms
Loss rate: 0.69%
```

Run 4: Report of FillP — Data Link

```
Run 5: Statistics of FillP

Start at: 2019-02-05 04:06:04
End at: 2019-02-05 04:06:34
Local clock offset: 6.533 ms
Remote clock offset: -7.18 ms


# Below is generated by plot.py at 2019-02-05 04:29:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 34.792 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 34.792 ms
Loss rate: 0.69%
```
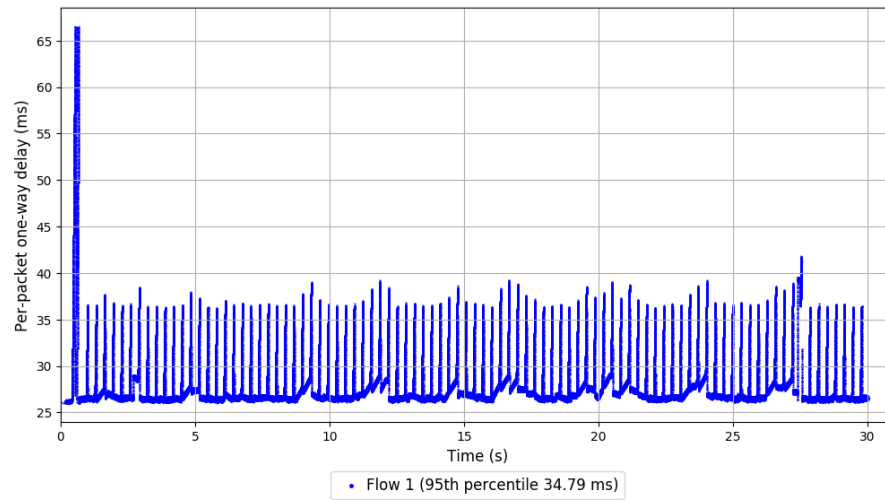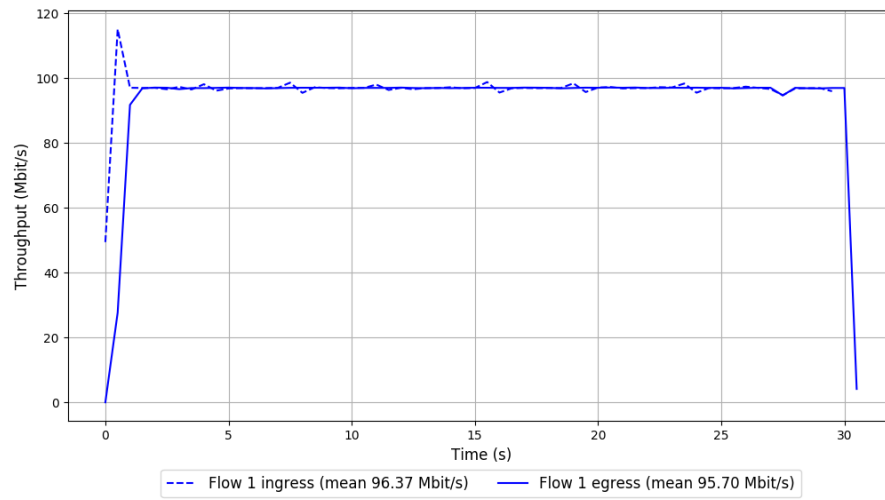
Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 96.37 Mbit/s)   Flow 1 egress (mean 95.70 Mbit/s)
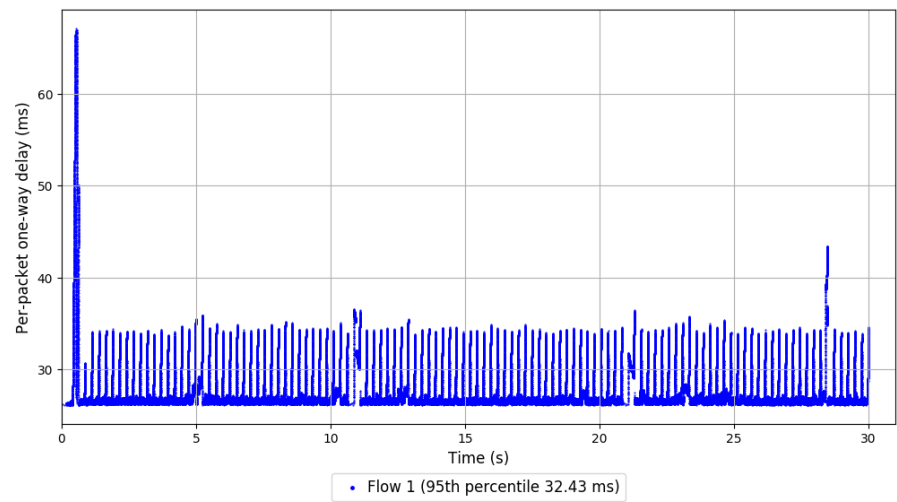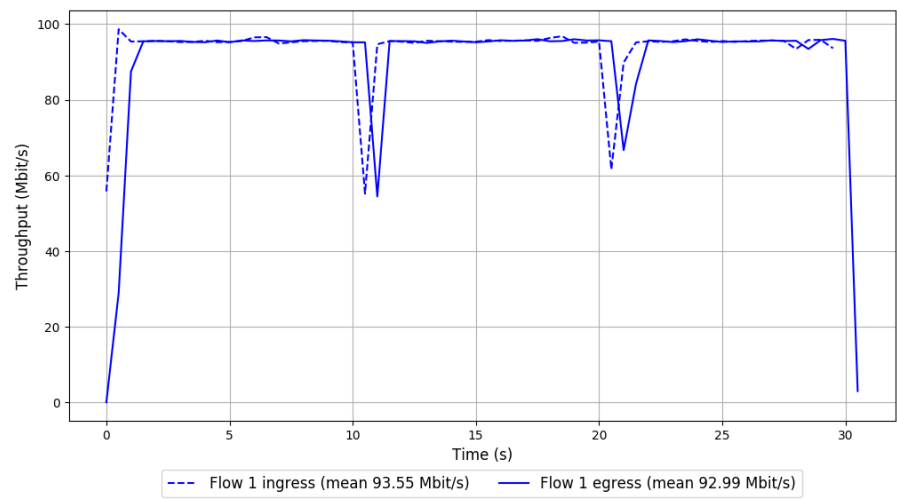

Flow 1 (95th percentile 34.79 ms)

```
Run 1: Statistics of FillP-Sheep

Start at: 2019-02-05 02:35:15
End at: 2019-02-05 02:35:45
Local clock offset: 3.24 ms
Remote clock offset: -8.356 ms


# Below is generated by plot.py at 2019-02-05 04:29:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.99 Mbit/s
95th percentile per-packet one-way delay: 32.431 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 92.99 Mbit/s
95th percentile per-packet one-way delay: 32.431 ms
Loss rate: 0.59%
```
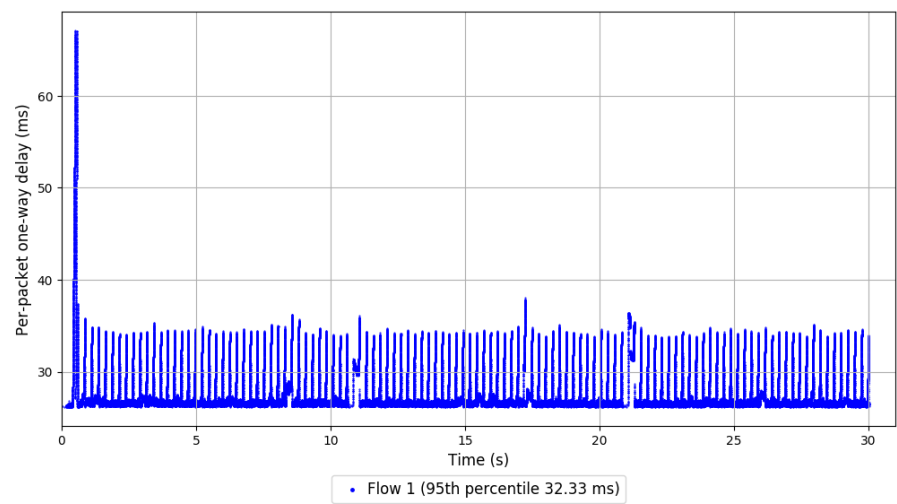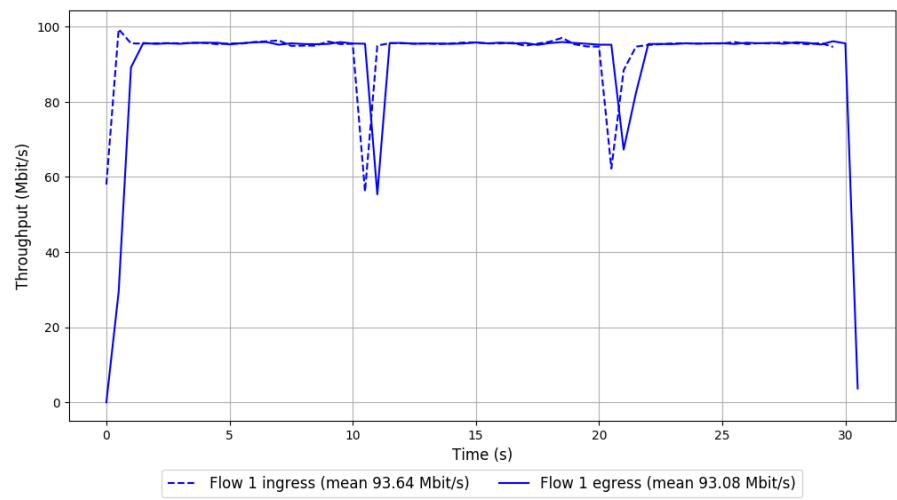
Run 1: Report of FillP-Sheep — Data Link

```
Run 2: Statistics of FillP-Sheep

Start at: 2019-02-05 03:00:03
End at: 2019-02-05 03:00:33
Local clock offset: 2.286 ms
Remote clock offset: -7.87 ms


# Below is generated by plot.py at 2019-02-05 04:30:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.08 Mbit/s
95th percentile per-packet one-way delay: 32.328 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 93.08 Mbit/s
95th percentile per-packet one-way delay: 32.328 ms
Loss rate: 0.60%
```
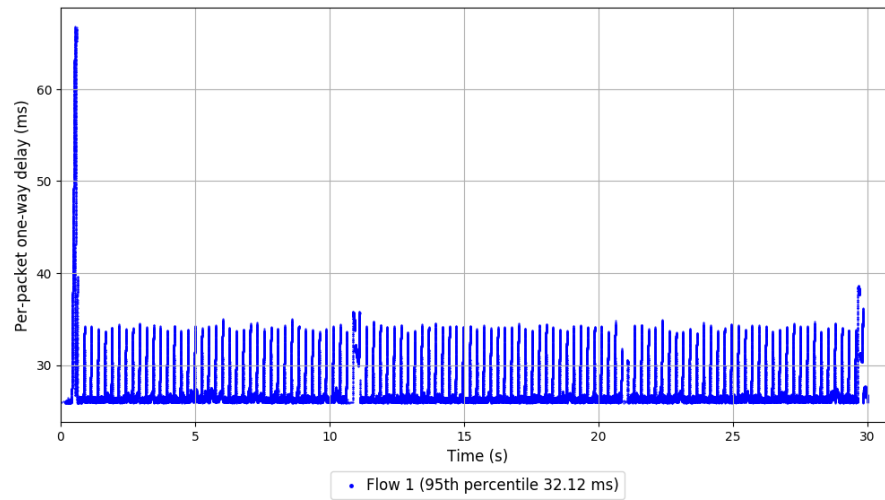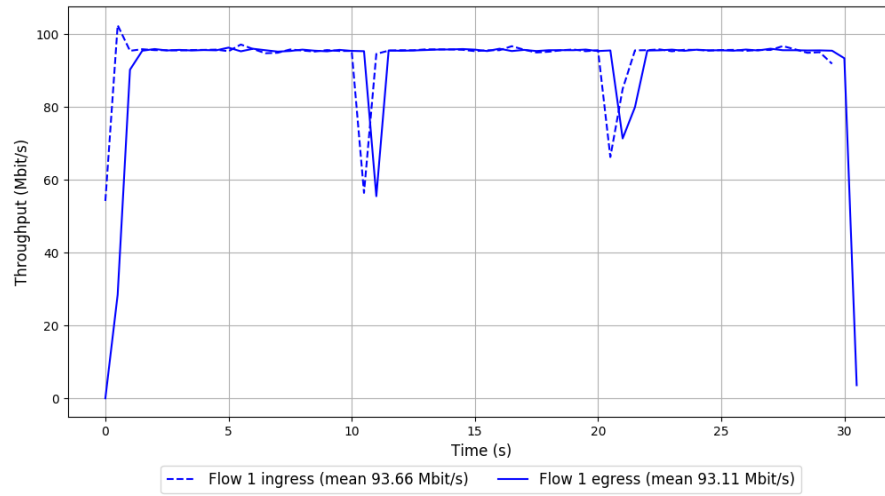
Run 2: Report of FillP-Sheep — Data Link

```
Run 3: Statistics of FillP-Sheep

Start at: 2019-02-05 03:24:19
End at: 2019-02-05 03:24:49
Local clock offset: 2.427 ms
Remote clock offset: -7.701 ms


# Below is generated by plot.py at 2019-02-05 04:30:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.11 Mbit/s
95th percentile per-packet one-way delay: 32.125 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 93.11 Mbit/s
95th percentile per-packet one-way delay: 32.125 ms
Loss rate: 0.59%
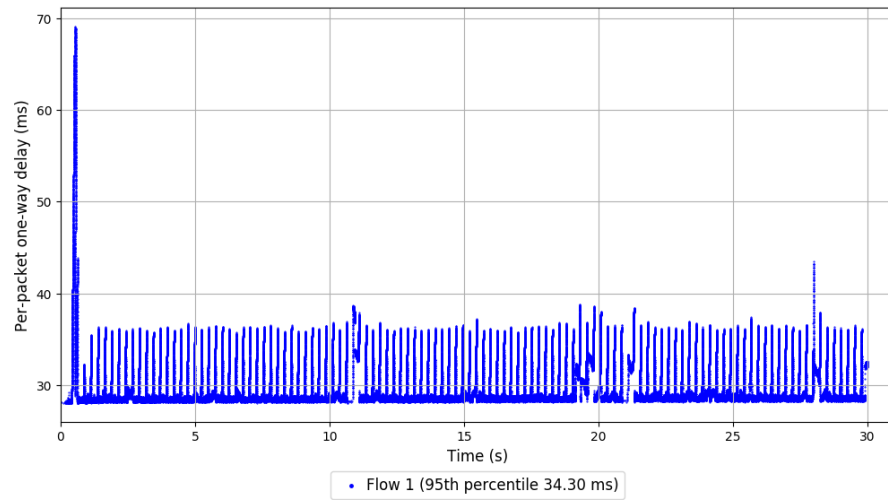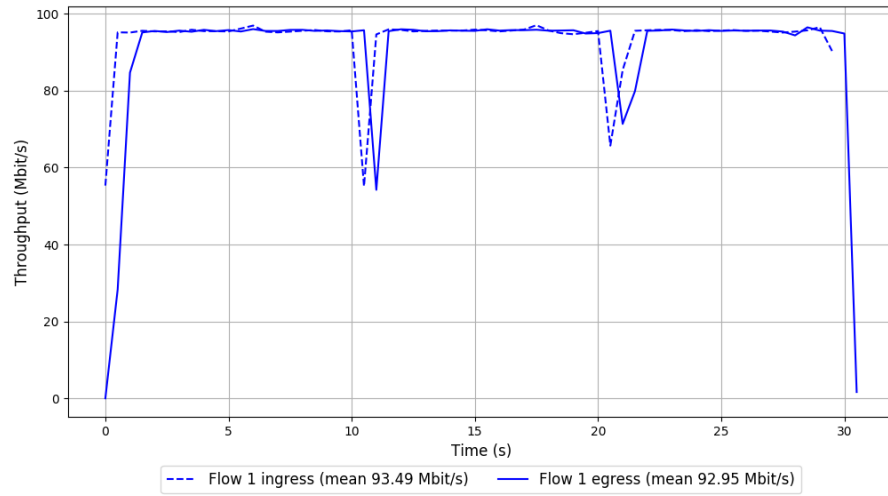```

# Run 3: Report of FillP-Sheep — Data Link

```
Run 4: Statistics of FillP-Sheep

Start at: 2019-02-05 03:48:32
End at: 2019-02-05 03:49:02
Local clock offset: 3.62 ms
Remote clock offset: -5.229 ms


# Below is generated by plot.py at 2019-02-05 04:30:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 34.298 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 34.298 ms
Loss rate: 0.57%
```

Run 4: Report of FillP-Sheep — Data Link

```
Run 5: Statistics of FillP-Sheep

Start at: 2019-02-05 04:13:02
End at: 2019-02-05 04:13:32
Local clock offset: 7.087 ms
Remote clock offset: -7.256 ms


# Below is generated by plot.py at 2019-02-05 04:30:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 31.907 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 31.907 ms
Loss rate: 0.60%
```
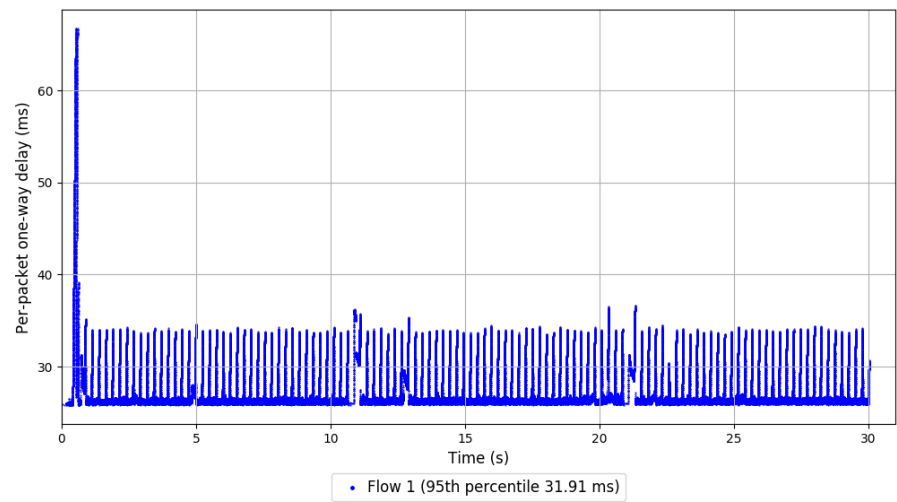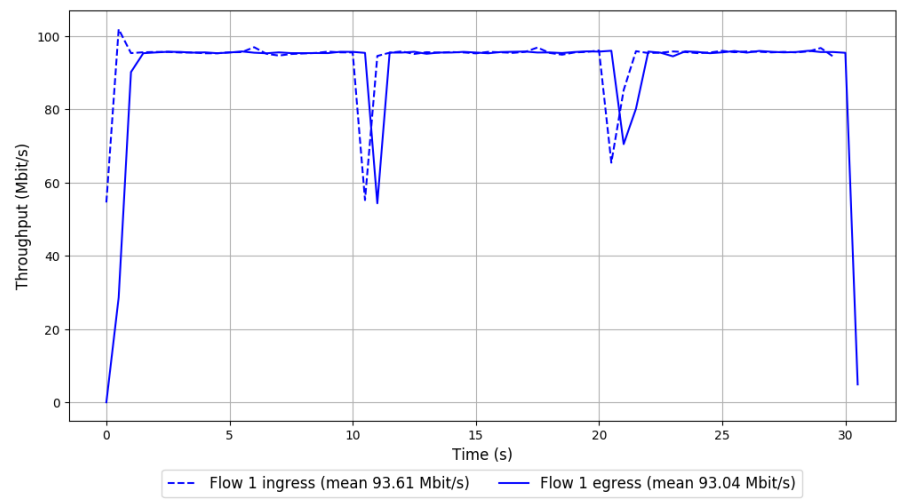
Run 5: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 93.61 Mbit/s)   Flow 1 egress (mean 93.04 Mbit/s)

Flow 1 (95th percentile 31.91 ms)

```
Run 1: Statistics of Indigo

Start at: 2019-02-05 02:37:35
End at: 2019-02-05 02:38:05
Local clock offset: 3.124 ms
Remote clock offset: -8.544 ms


# Below is generated by plot.py at 2019-02-05 04:30:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 29.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 29.783 ms
Loss rate: 0.00%
```
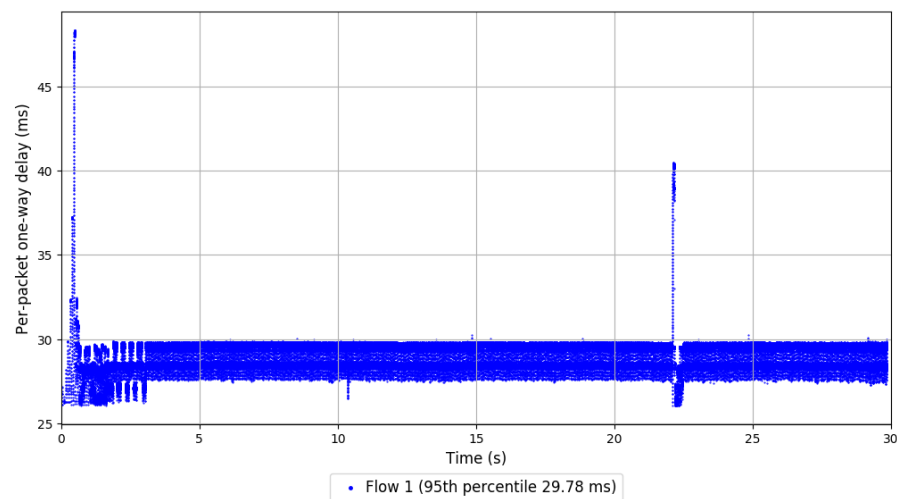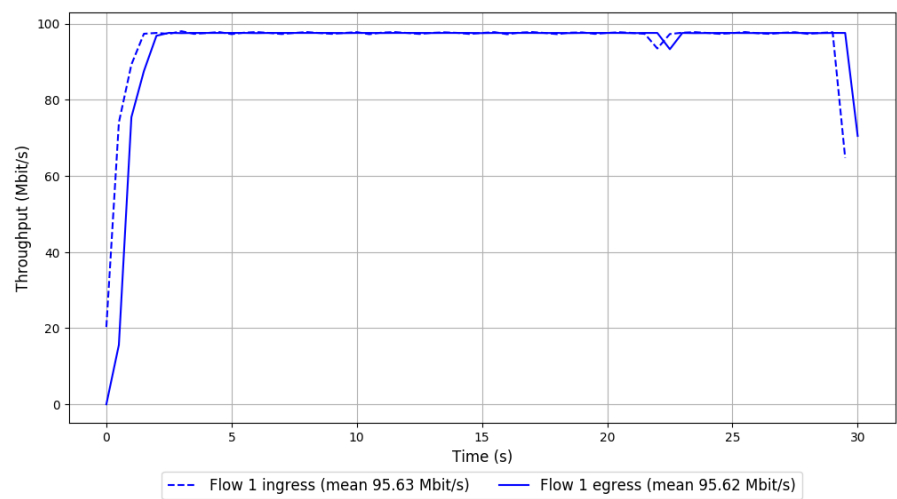
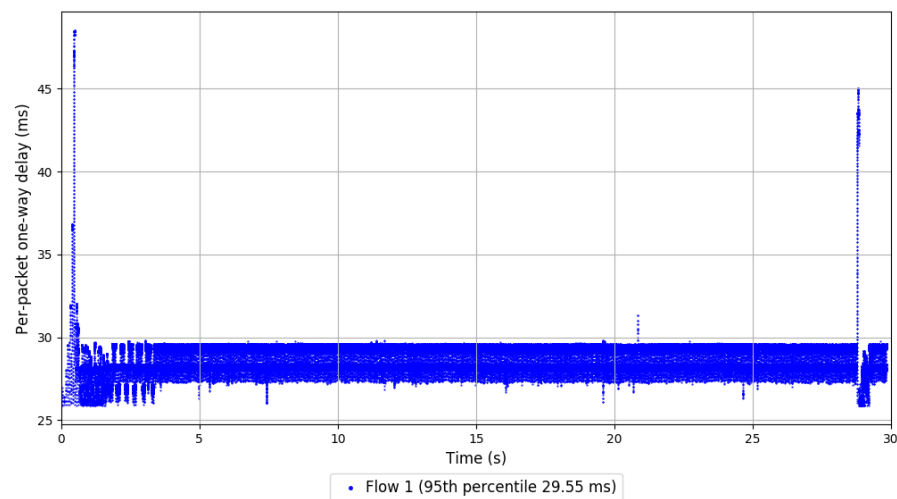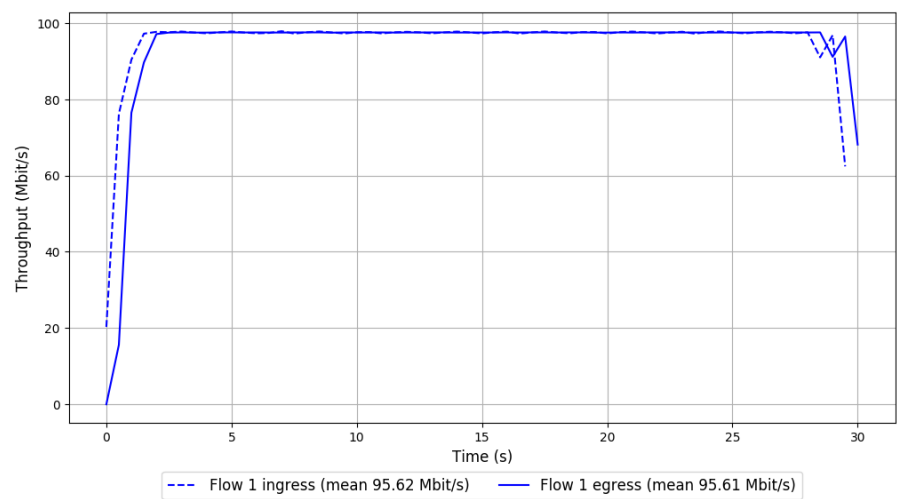Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2019-02-05 03:02:25
End at: 2019-02-05 03:02:55
Local clock offset: 2.252 ms
Remote clock offset: -8.234 ms


# Below is generated by plot.py at 2019-02-05 04:30:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 29.553 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 29.553 ms
Loss rate: 0.00%
```

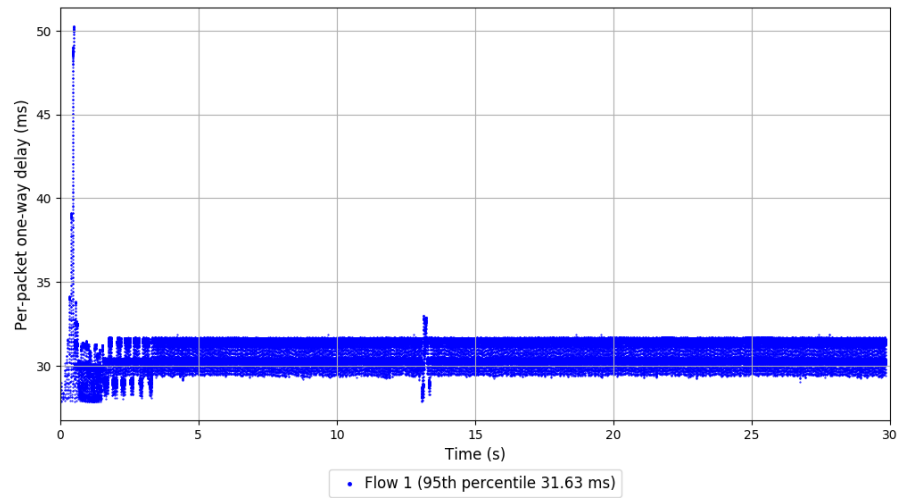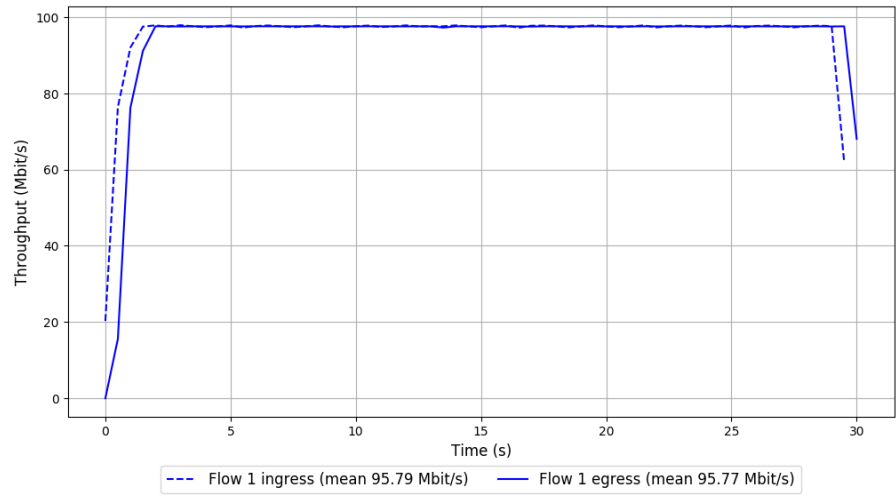Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2019-02-05 03:26:41
End at: 2019-02-05 03:27:11
Local clock offset: 2.466 ms
Remote clock offset: -5.748 ms


# Below is generated by plot.py at 2019-02-05 04:30:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 31.629 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 31.629 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2019-02-05 03:50:53
End at: 2019-02-05 03:51:23
Local clock offset: 4.25 ms
Remote clock offset: -7.002 ms


# Below is generated by plot.py at 2019-02-05 04:30:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 31.231 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 31.231 ms
Loss rate: 0.00%
```
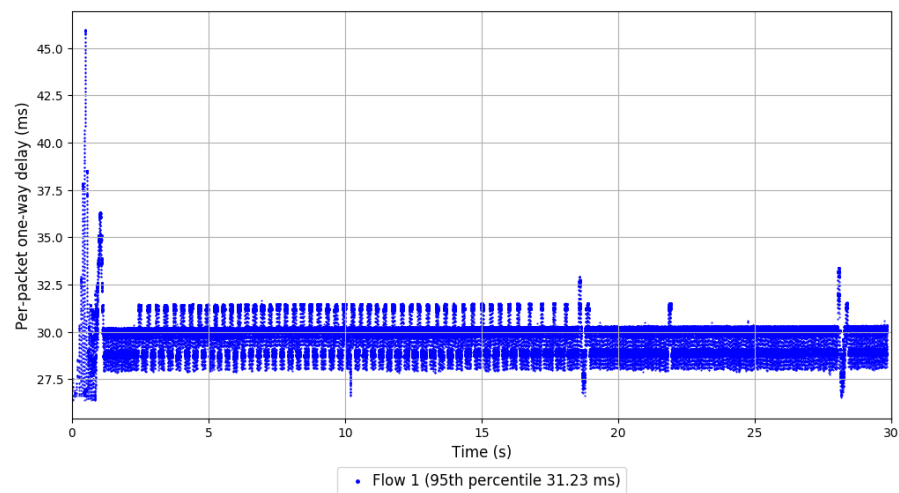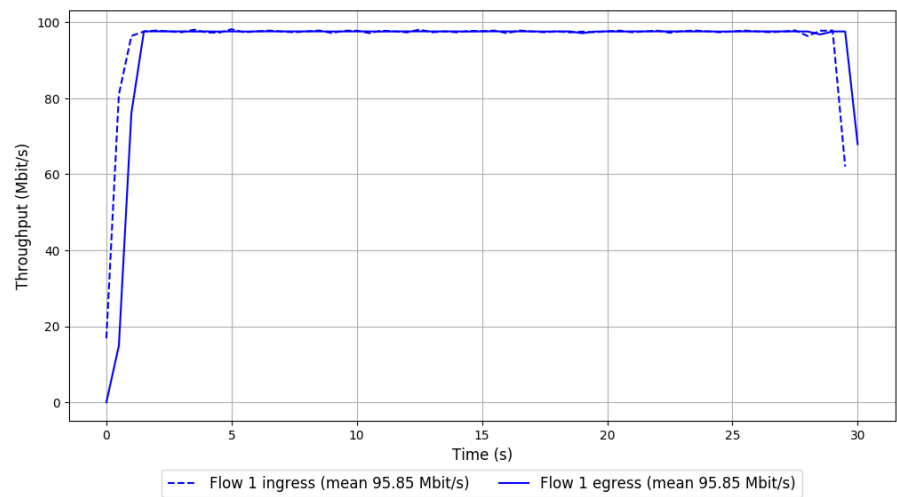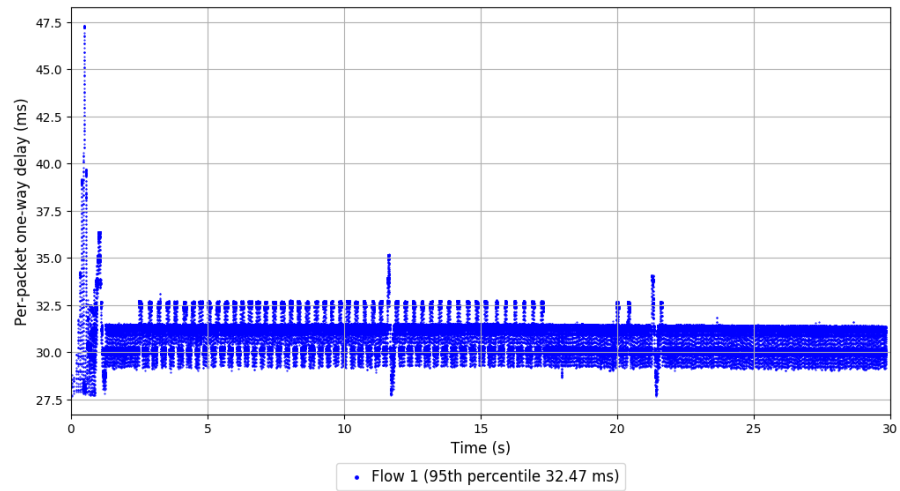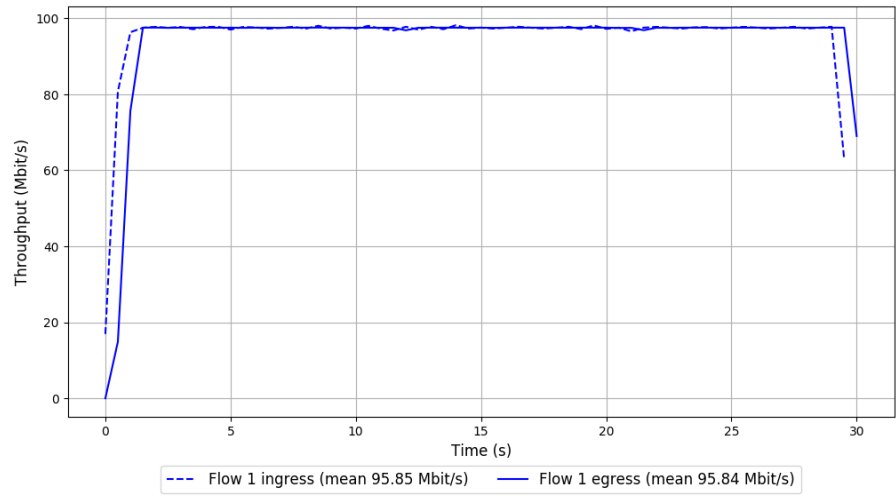
Run 4: Report of Indigo — Data Link

```
Run 5: Statistics of Indigo

Start at: 2019-02-05 04:15:26
End at: 2019-02-05 04:15:56
Local clock offset: 7.264 ms
Remote clock offset: -5.513 ms


# Below is generated by plot.py at 2019-02-05 04:31:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 32.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 32.468 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-02-05 02:45:55
End at: 2019-02-05 02:46:25
Local clock offset: 3.051 ms
Remote clock offset: -6.54 ms


# Below is generated by plot.py at 2019-02-05 04:31:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 35.401 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 35.401 ms
Loss rate: 0.00%
```
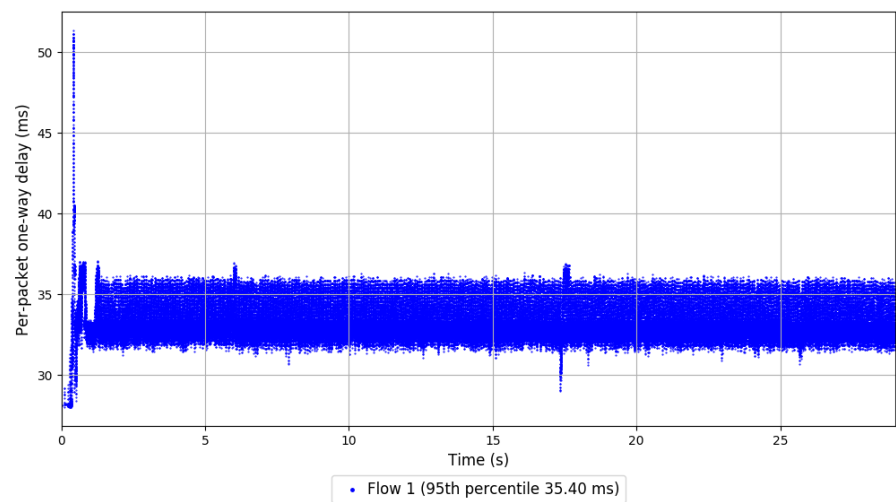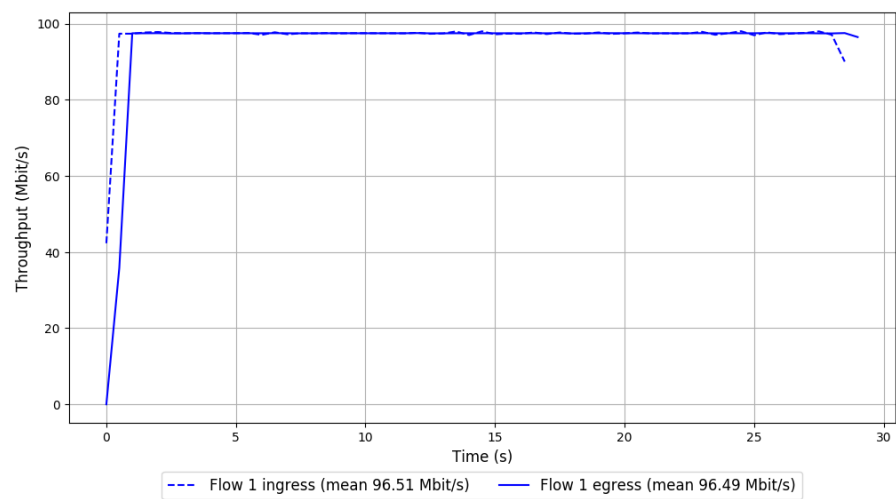
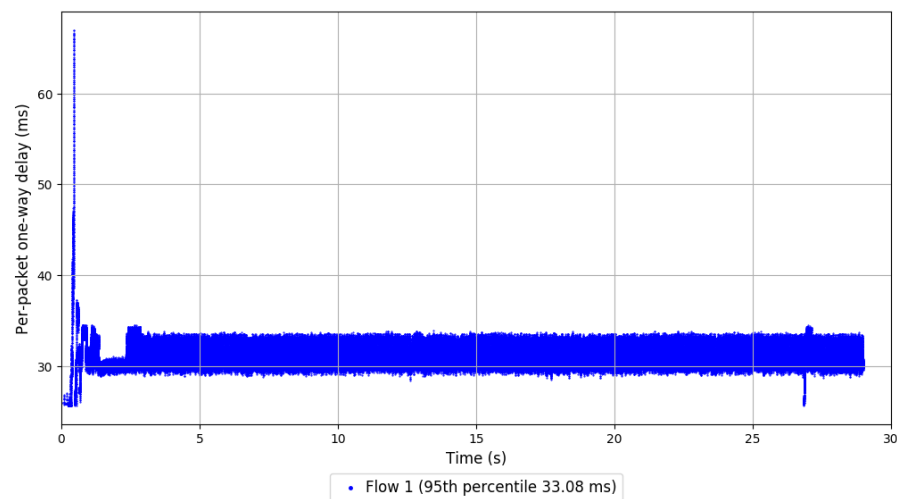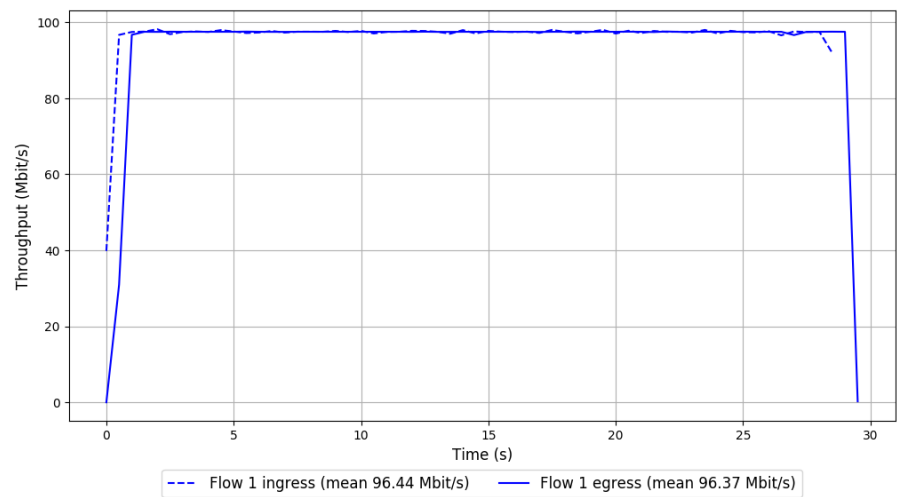Run 1: Report of Indigo-MusesC3 — Data Link

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-02-05 03:10:28
End at: 2019-02-05 03:10:58
Local clock offset: 2.279 ms
Remote clock offset: -8.313 ms


# Below is generated by plot.py at 2019-02-05 04:31:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.37 Mbit/s
95th percentile per-packet one-way delay: 33.075 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 96.37 Mbit/s
95th percentile per-packet one-way delay: 33.075 ms
Loss rate: 0.06%
```

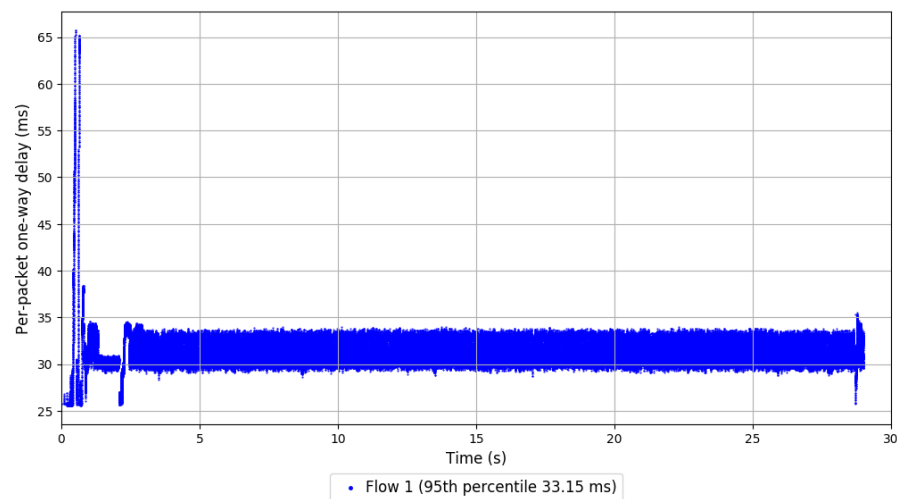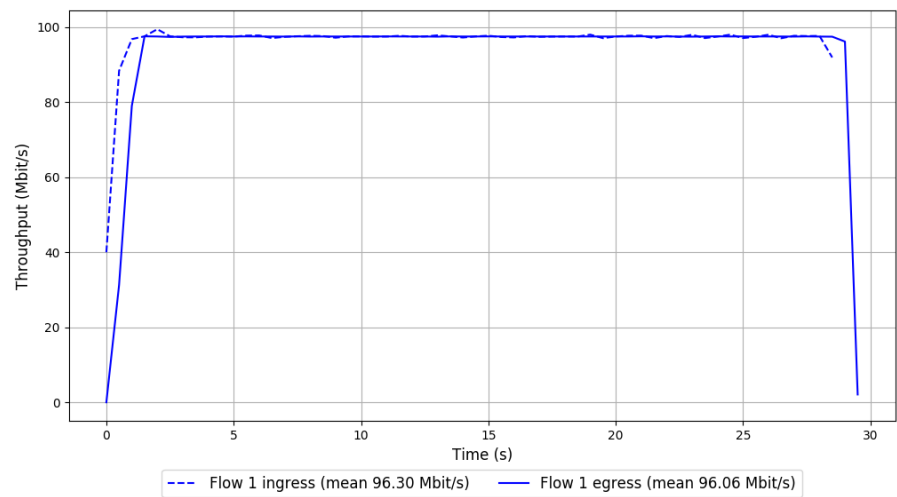Run 2: Report of Indigo-MusesC3 — Data Link

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-02-05 03:34:44
End at: 2019-02-05 03:35:14
Local clock offset: 2.583 ms
Remote clock offset: -7.978 ms


# Below is generated by plot.py at 2019-02-05 04:31:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 33.146 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 33.146 ms
Loss rate: 0.24%
```

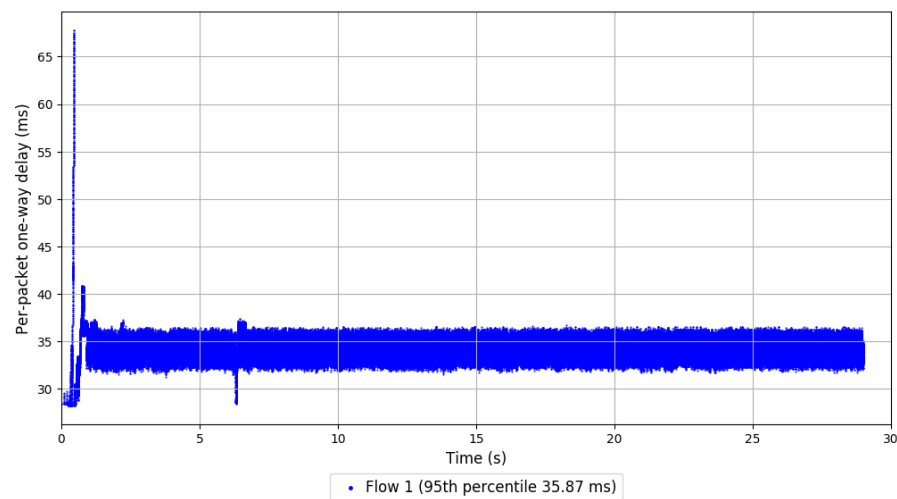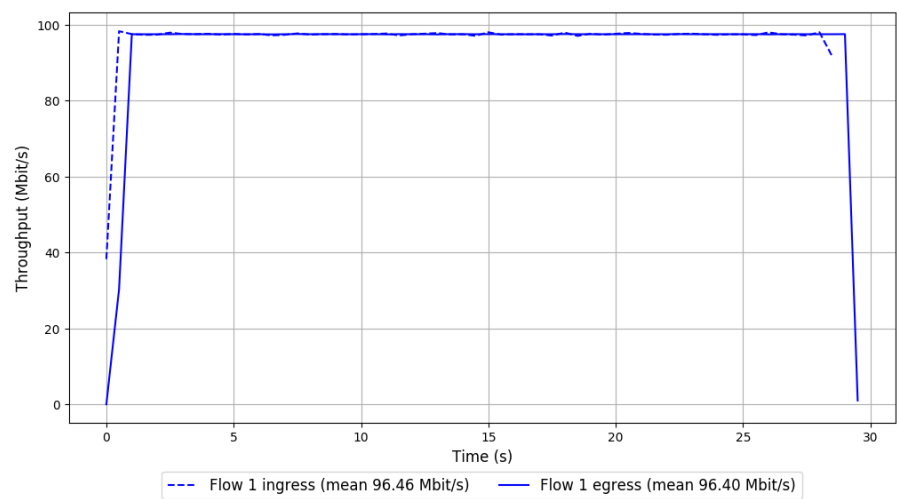Run 3: Report of Indigo-MusesC3 — Data Link

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-02-05 03:59:09
End at: 2019-02-05 03:59:39
Local clock offset: 5.773 ms
Remote clock offset: -5.085 ms


# Below is generated by plot.py at 2019-02-05 04:31:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 35.865 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 35.865 ms
Loss rate: 0.04%
```

Run 4: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 96.46 Mbit/s) --- Flow 1 egress (mean 96.40 Mbit/s)

Flow 1 (95th percentile 35.87 ms)

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-02-05 04:23:35
End at: 2019-02-05 04:24:05
Local clock offset: 4.953 ms
Remote clock offset: -6.94 ms


# Below is generated by plot.py at 2019-02-05 04:31:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 34.295 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 34.295 ms
Loss rate: 0.02%
```
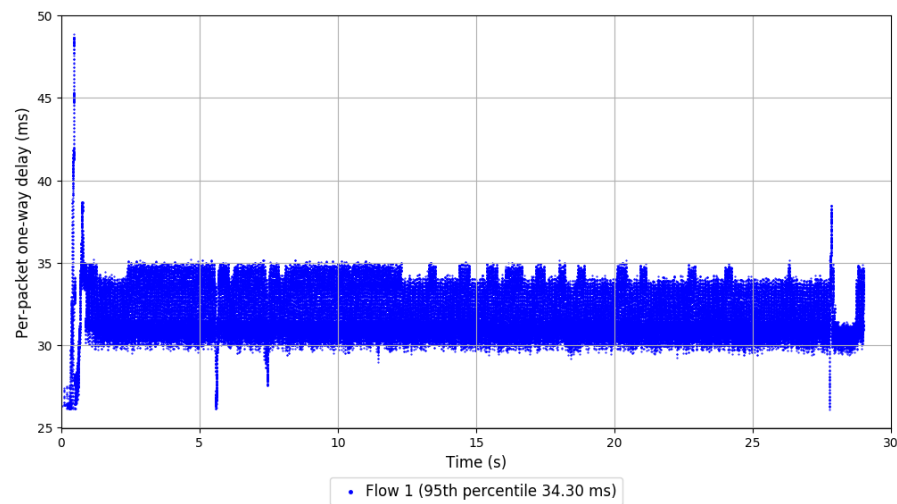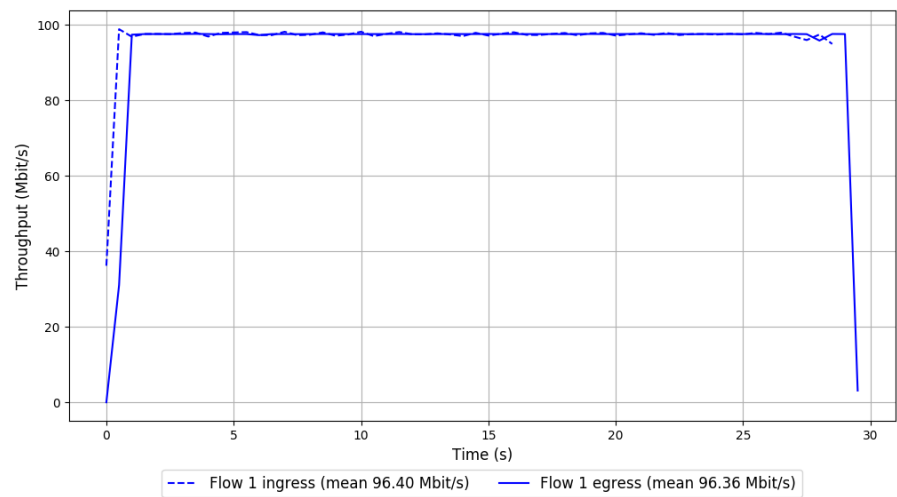
Run 5: Report of Indigo-MusesC3 — Data Link

```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-02-05 02:34:04
End at: 2019-02-05 02:34:34
Local clock offset: 3.306 ms
Remote clock offset: -6.56 ms

# Below is generated by plot.py at 2019-02-05 04:31:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 33.446 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 33.446 ms
Loss rate: 0.00%
```
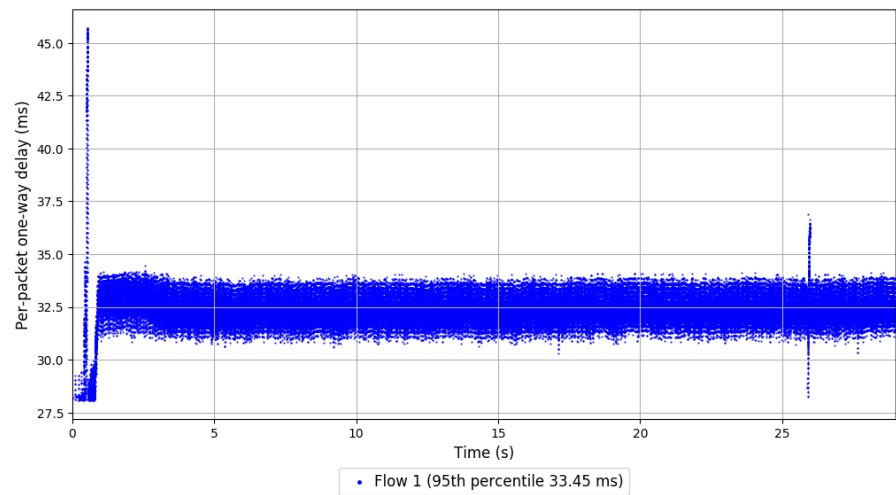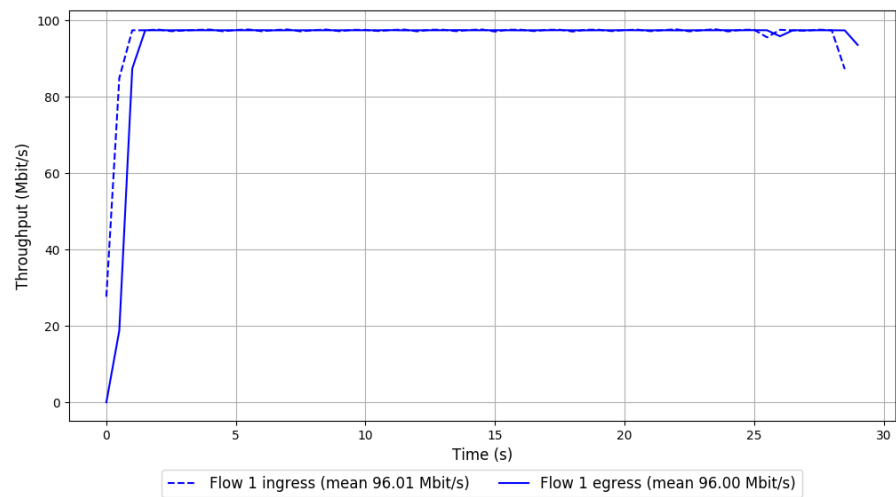
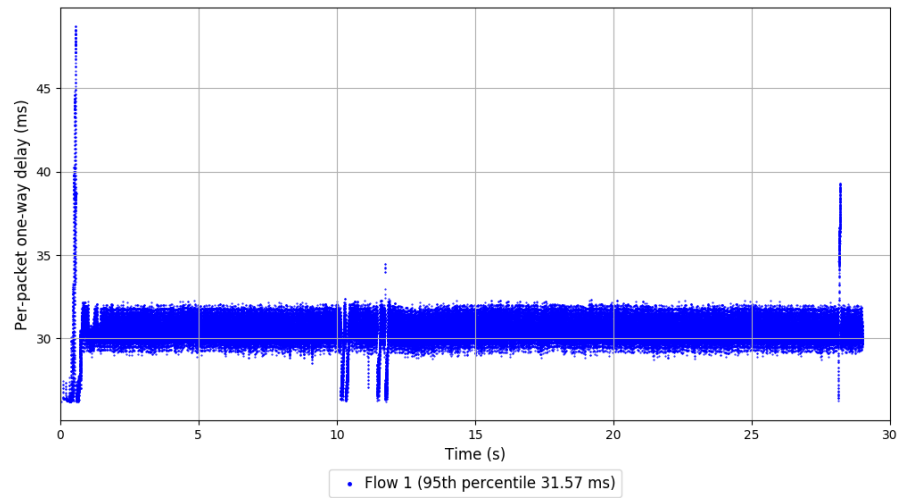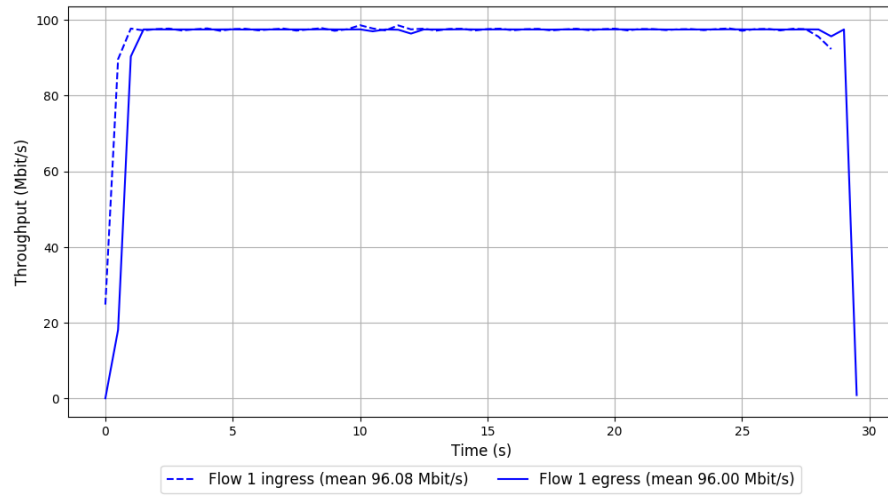Run 1: Report of Indigo-MusesC5 — Data Link

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-02-05 02:58:52
End at: 2019-02-05 02:59:22
Local clock offset: 2.301 ms
Remote clock offset: -7.938 ms


# Below is generated by plot.py at 2019-02-05 04:31:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 31.571 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 31.571 ms
Loss rate: 0.07%
```

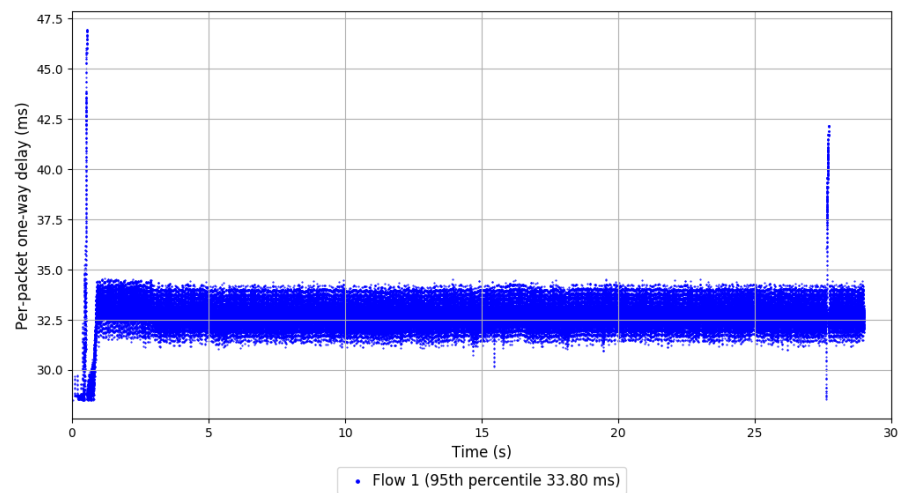Run 2: Report of Indigo-MusesC5 — Data Link

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-02-05 03:23:08
End at: 2019-02-05 03:23:38
Local clock offset: 2.404 ms
Remote clock offset: -5.194 ms


# Below is generated by plot.py at 2019-02-05 04:32:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 33.798 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 33.798 ms
Loss rate: 0.00%
```
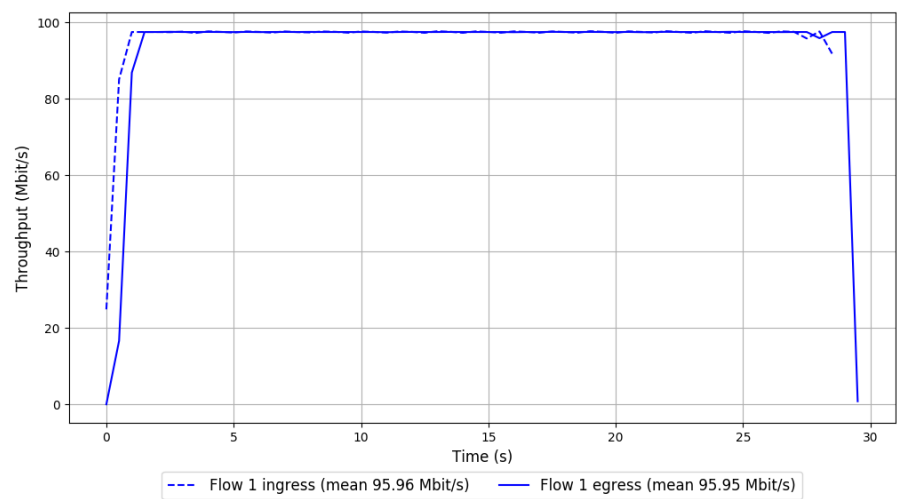
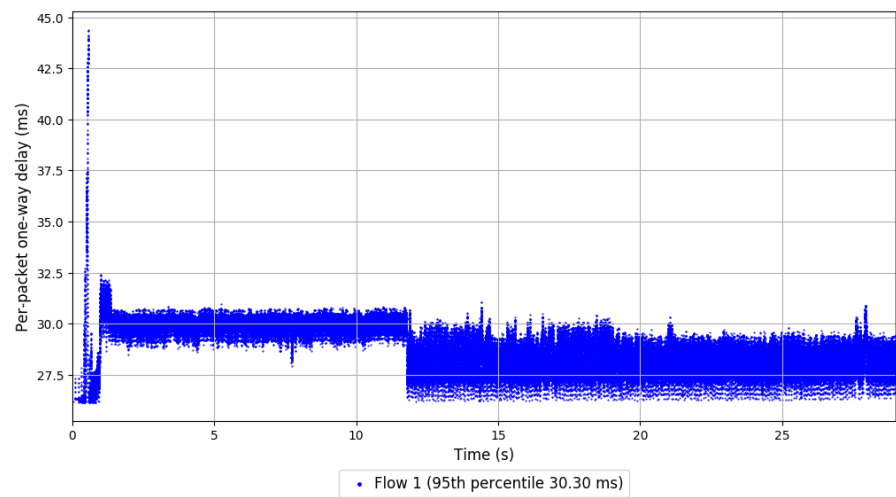# Run 3: Report of Indigo-MusesC5 — Data Link

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-02-05 03:47:22
End at: 2019-02-05 03:47:52
Local clock offset: 3.262 ms
Remote clock offset: -7.345 ms


# Below is generated by plot.py at 2019-02-05 04:32:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 30.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 30.302 ms
Loss rate: 0.00%
```

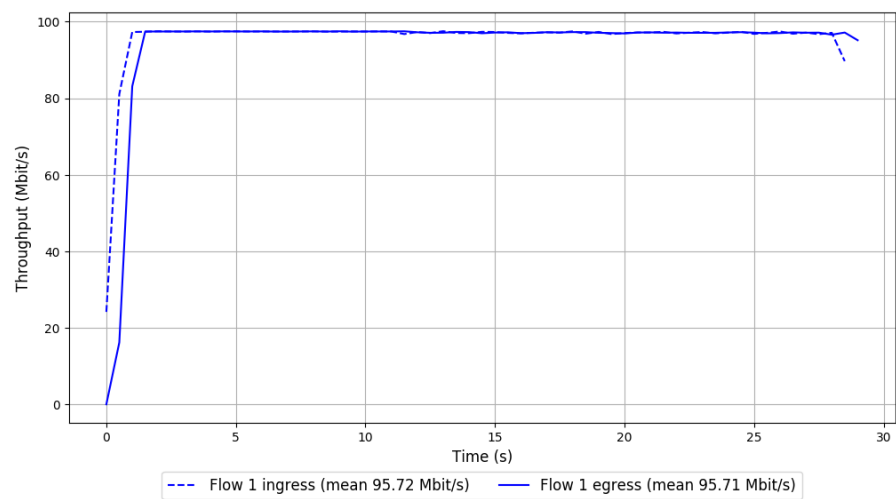Run 4: Report of Indigo-MusesC5 — Data Link

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-02-05 04:11:51
End at: 2019-02-05 04:12:21
Local clock offset: 7.01 ms
Remote clock offset: -7.668 ms


# Below is generated by plot.py at 2019-02-05 04:32:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.88 Mbit/s
95th percentile per-packet one-way delay: 30.958 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 95.88 Mbit/s
95th percentile per-packet one-way delay: 30.958 ms
Loss rate: 0.03%
```
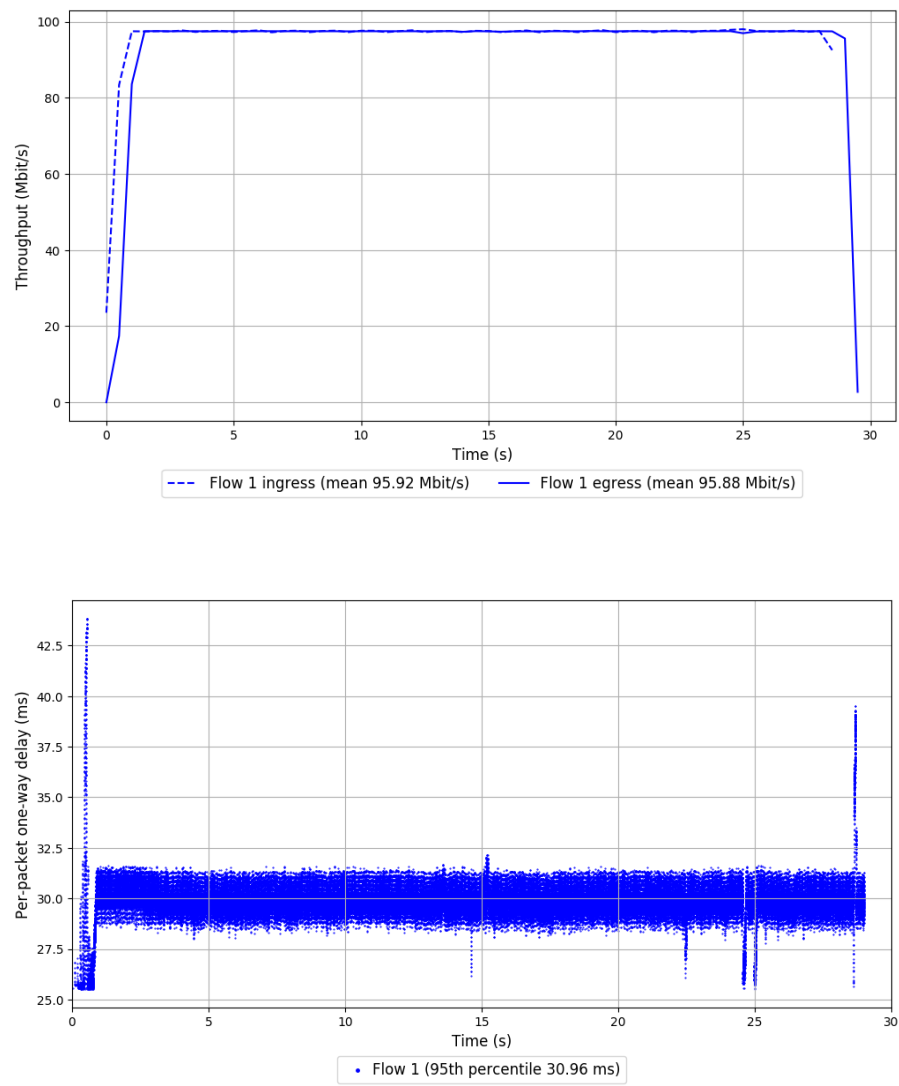
Run 5: Report of Indigo-MusesC5 — Data Link

```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-02-05 02:30:39
End at: 2019-02-05 02:31:09
Local clock offset: 3.608 ms
Remote clock offset: -6.79 ms


# Below is generated by plot.py at 2019-02-05 04:32:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.01 Mbit/s
95th percentile per-packet one-way delay: 32.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.01 Mbit/s
95th percentile per-packet one-way delay: 32.128 ms
Loss rate: 0.00%
```
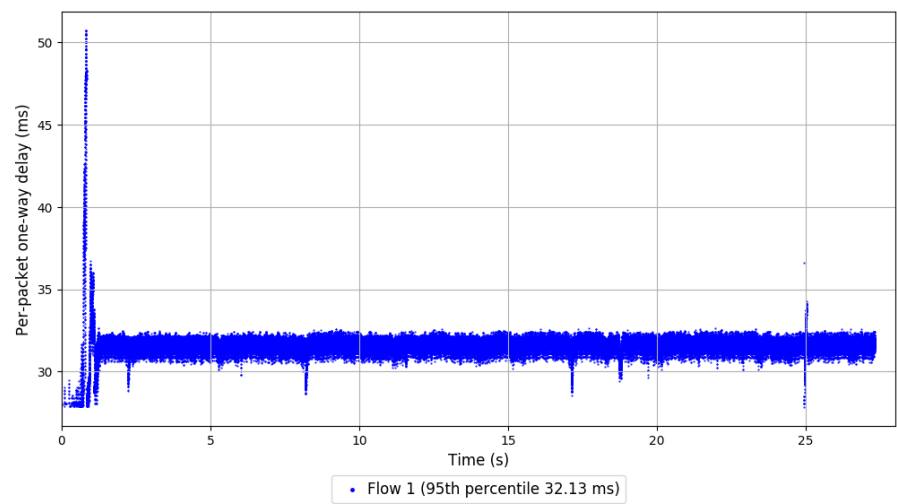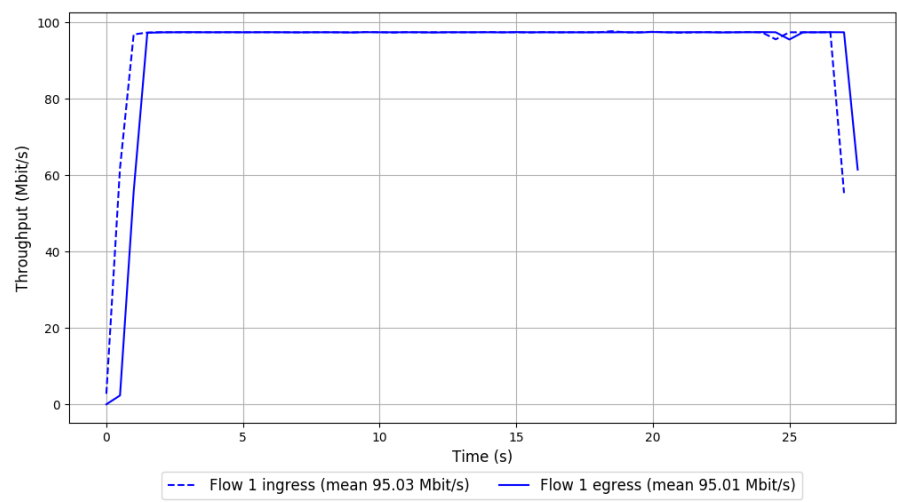
Run 1: Report of Indigo-MusesD — Data Link

```
Run 2: Statistics of Indigo-MusesD

Start at: 2019-02-05 02:55:23
End at: 2019-02-05 02:55:53
Local clock offset: 2.404 ms
Remote clock offset: -8.17 ms


# Below is generated by plot.py at 2019-02-05 04:32:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 30.351 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 30.351 ms
Loss rate: 0.00%
```
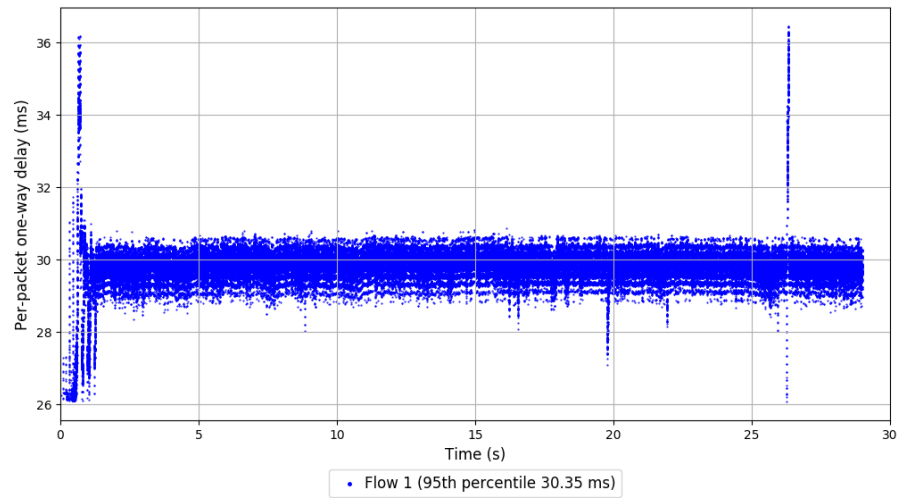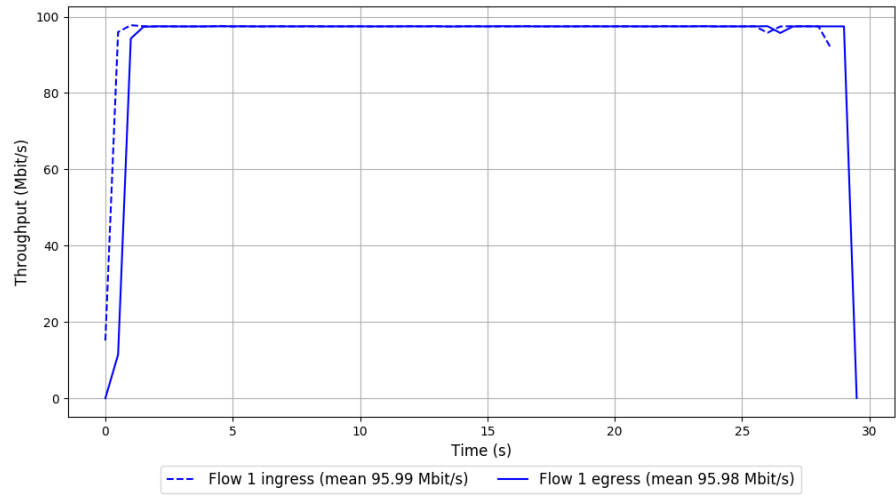
Run 2: Report of Indigo-MusesD — Data Link

```
Run 3: Statistics of Indigo-MusesD

Start at: 2019-02-05 03:19:42
End at: 2019-02-05 03:20:12
Local clock offset: 2.351 ms
Remote clock offset: -7.486 ms


# Below is generated by plot.py at 2019-02-05 04:32:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.07 Mbit/s
95th percentile per-packet one-way delay: 31.291 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.07 Mbit/s
95th percentile per-packet one-way delay: 31.291 ms
Loss rate: 0.03%
```
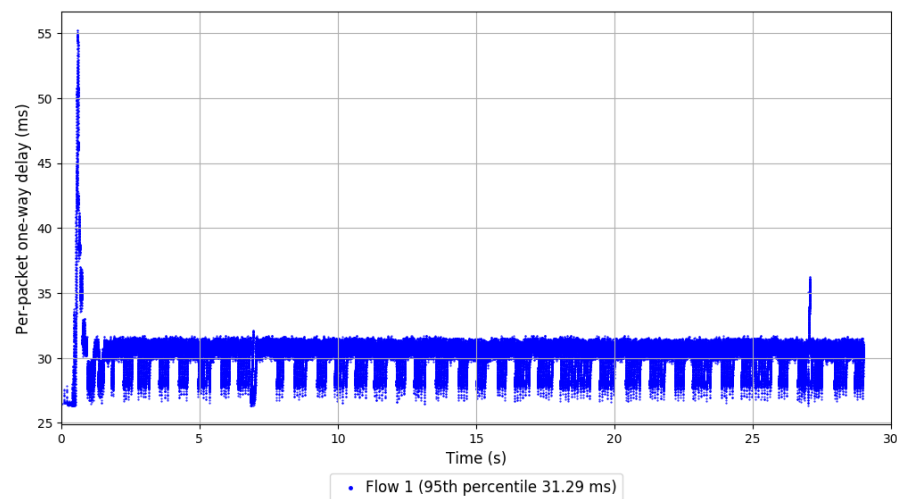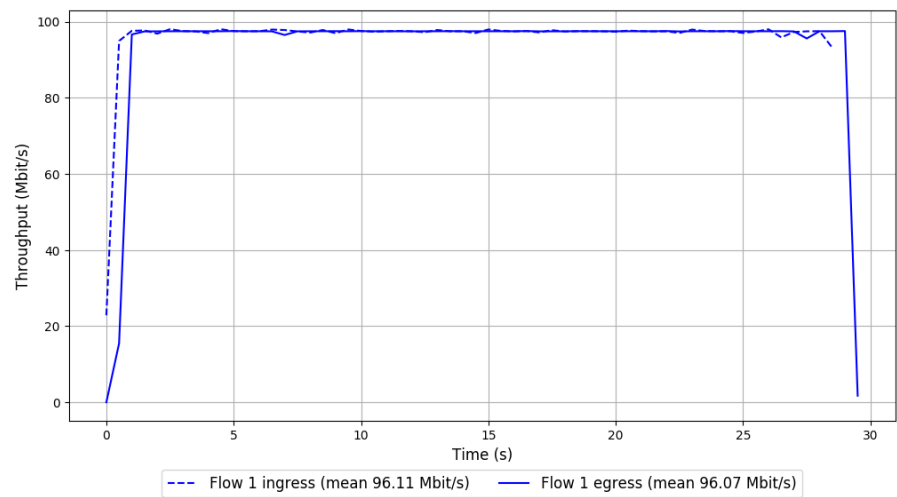
Run 3: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 96.11 Mbit/s)   Flow 1 egress (mean 96.07 Mbit/s)

Flow 1 (95th percentile 31.29 ms)

```
Run 4: Statistics of Indigo-MusesD

Start at: 2019-02-05 03:43:56
End at: 2019-02-05 03:44:26
Local clock offset: 2.704 ms
Remote clock offset: -7.333 ms


# Below is generated by plot.py at 2019-02-05 04:33:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 30.304 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 30.304 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesD — Data Link

```
Run 5: Statistics of Indigo-MusesD

Start at: 2019-02-05 04:08:24
End at: 2019-02-05 04:08:54
Local clock offset: 6.746 ms
Remote clock offset: -6.96 ms


# Below is generated by plot.py at 2019-02-05 04:33:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 30.569 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 30.569 ms
Loss rate: 0.00%
```
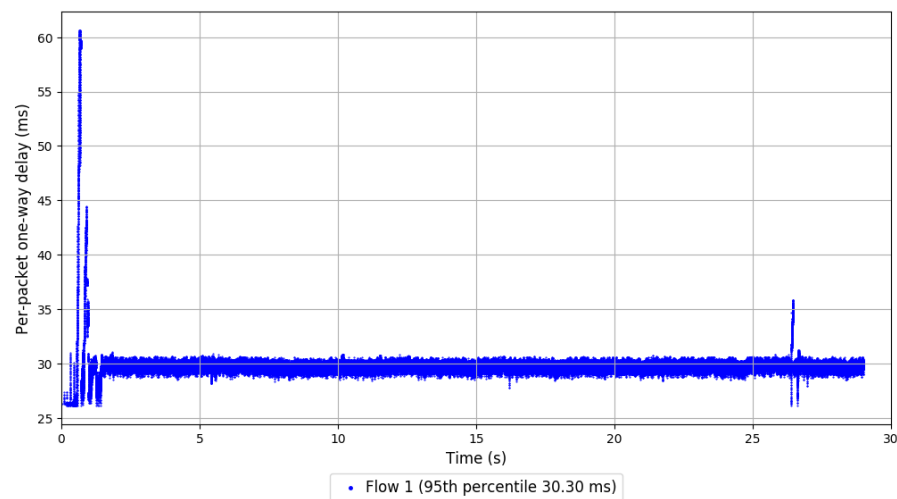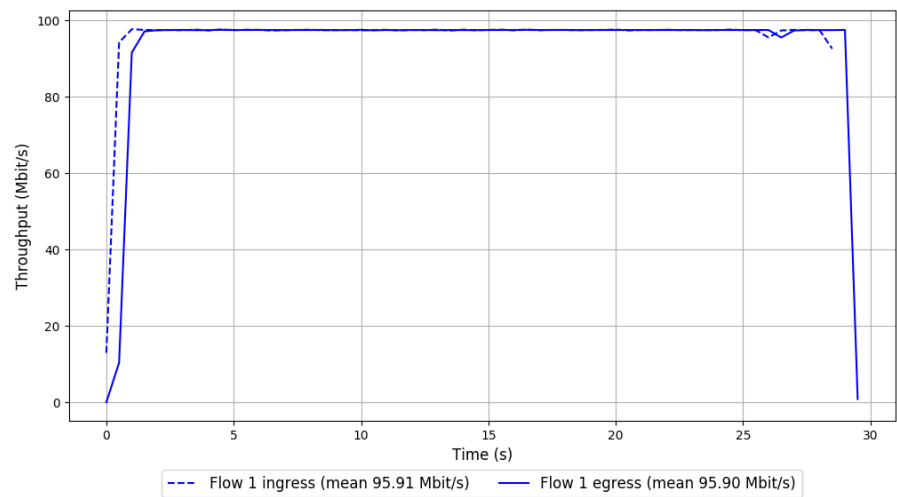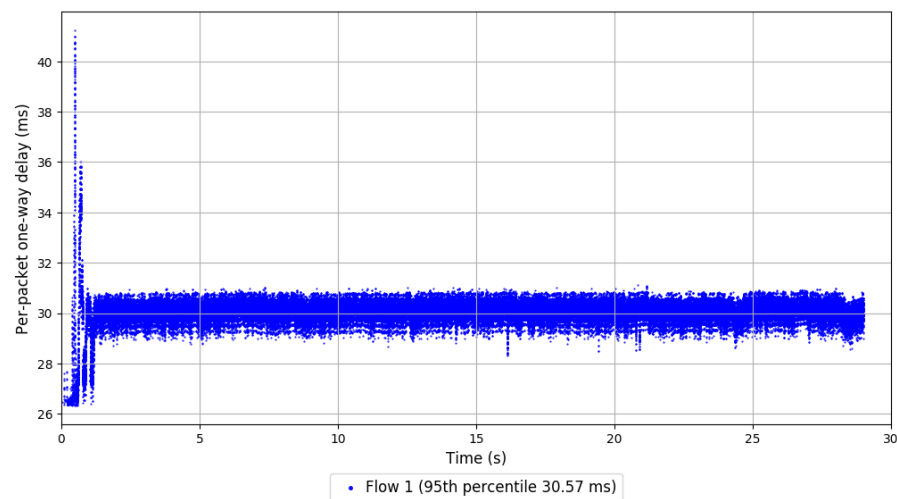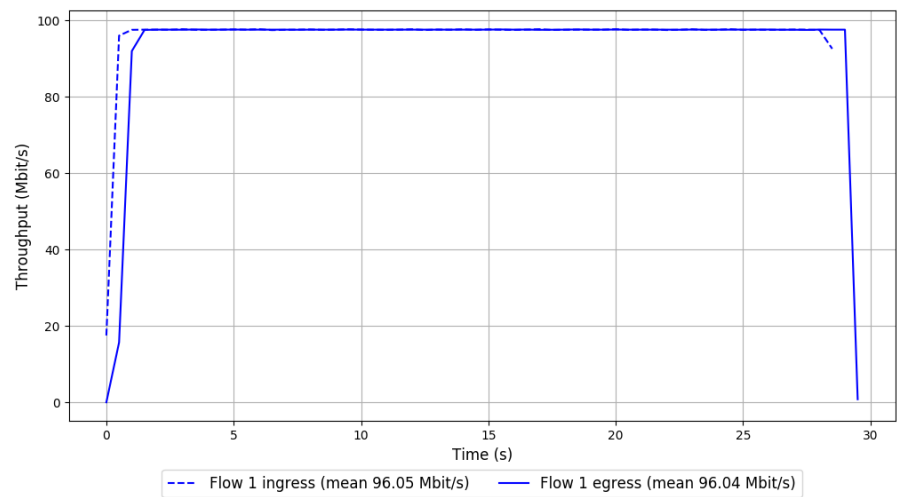
Run 5: Report of Indigo-MusesD — Data Link

```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-02-05 02:41:03
End at: 2019-02-05 02:41:33
Local clock offset: 3.052 ms
Remote clock offset: -8.27 ms


# Below is generated by plot.py at 2019-02-05 04:33:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 38.647 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 38.647 ms
Loss rate: 0.77%
```
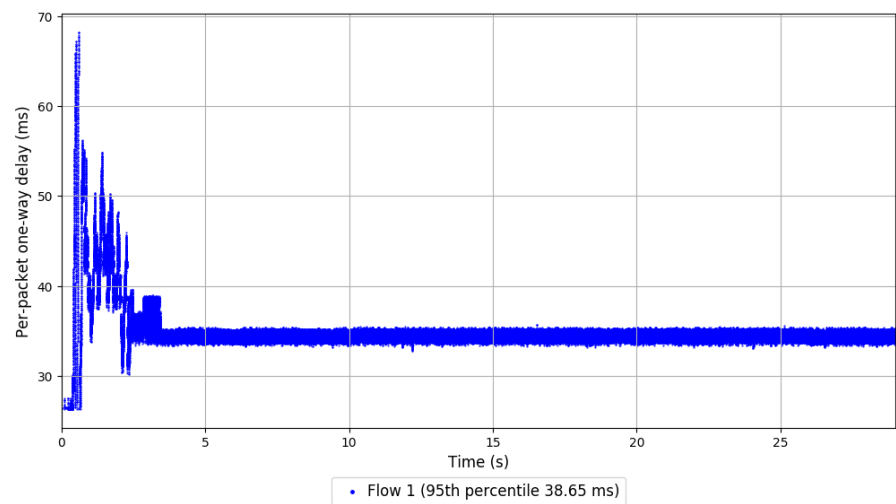
Run 1: Report of Indigo-MusesT — Data Link

```
Run 2: Statistics of Indigo-MusesT

Start at: 2019-02-05 03:05:53
End at: 2019-02-05 03:06:23
Local clock offset: 2.259 ms
Remote clock offset: -6.338 ms


# Below is generated by plot.py at 2019-02-05 04:33:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 36.338 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 36.338 ms
Loss rate: 0.75%
```

Run 2: Report of Indigo-MusesT — Data Link

```
Run 3: Statistics of Indigo-MusesT

Start at: 2019-02-05 03:30:09
End at: 2019-02-05 03:30:39
Local clock offset: 2.489 ms
Remote clock offset: -5.963 ms


# Below is generated by plot.py at 2019-02-05 04:33:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 36.424 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 36.424 ms
Loss rate: 0.99%
```
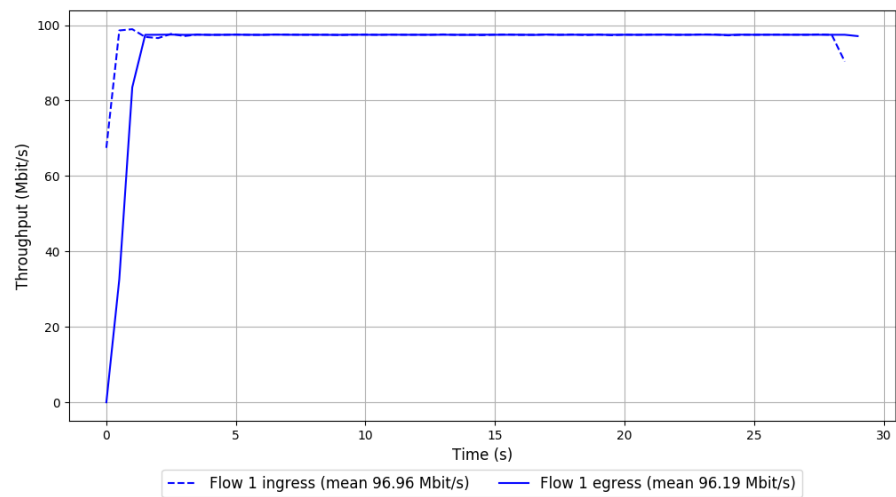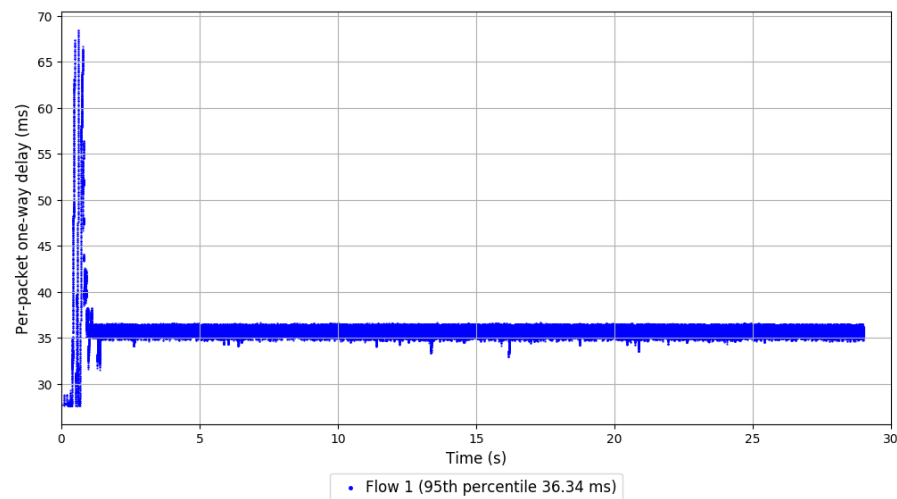
Run 3: Report of Indigo-MusesT — Data Link

```
Run 4: Statistics of Indigo-MusesT

Start at: 2019-02-05 03:54:21
End at: 2019-02-05 03:54:51
Local clock offset: 5.01 ms
Remote clock offset: -7.038 ms


# Below is generated by plot.py at 2019-02-05 04:33:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 35.964 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 35.964 ms
Loss rate: 1.22%
```
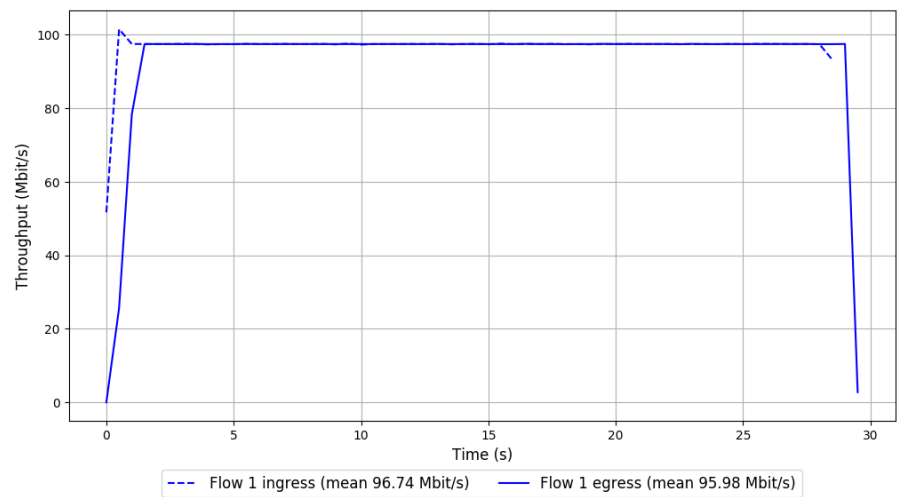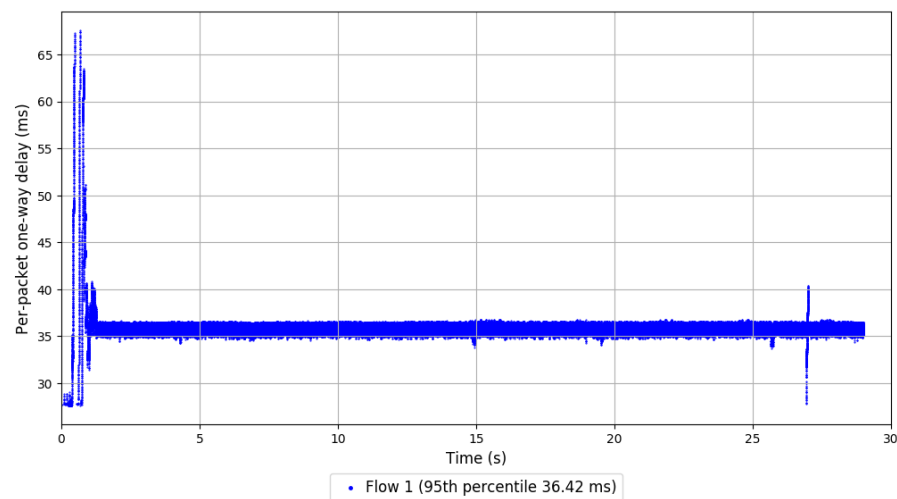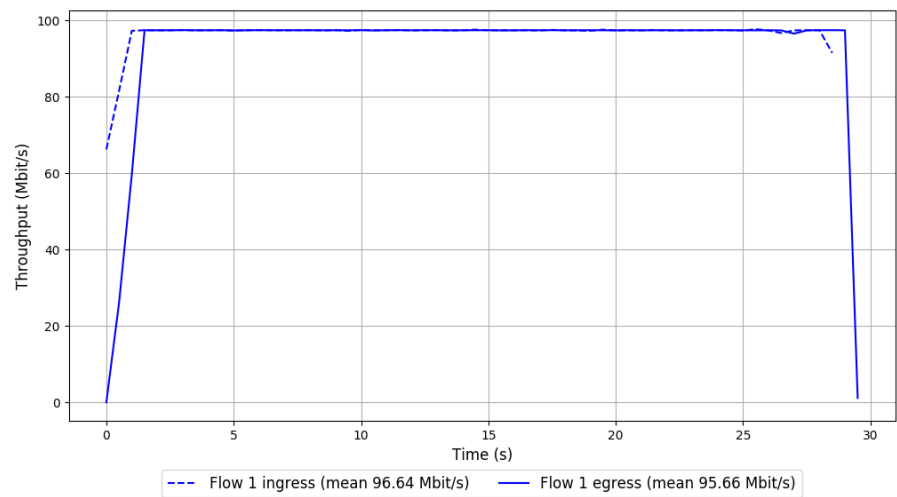
Run 4: Report of Indigo-MusesT — Data Link

```
Run 5: Statistics of Indigo-MusesT

Start at: 2019-02-05 04:19:00
End at: 2019-02-05 04:19:30
Local clock offset: 6.22 ms
Remote clock offset: -7.087 ms


# Below is generated by plot.py at 2019-02-05 04:33:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 34.689 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 34.689 ms
Loss rate: 0.76%
```

Run 5: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 96.94 Mbit/s)   Flow 1 egress (mean 96.18 Mbit/s)

Flow 1 (95th percentile 34.69 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2019-02-05 02:23:43
End at: 2019-02-05 02:24:13
Local clock offset: 4.898 ms
Remote clock offset: -8.766 ms

# Below is generated by plot.py at 2019-02-05 04:33:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.21 Mbit/s
95th percentile per-packet one-way delay: 51.114 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 62.21 Mbit/s
95th percentile per-packet one-way delay: 51.114 ms
Loss rate: 0.22%
```
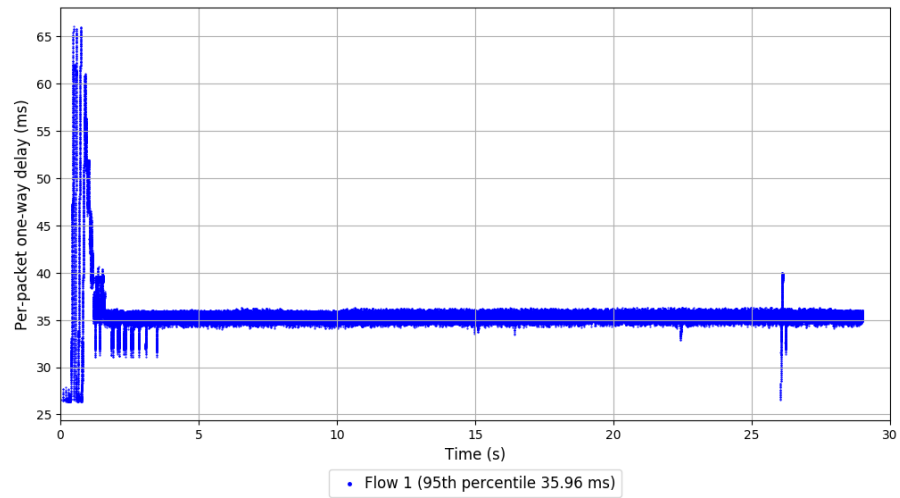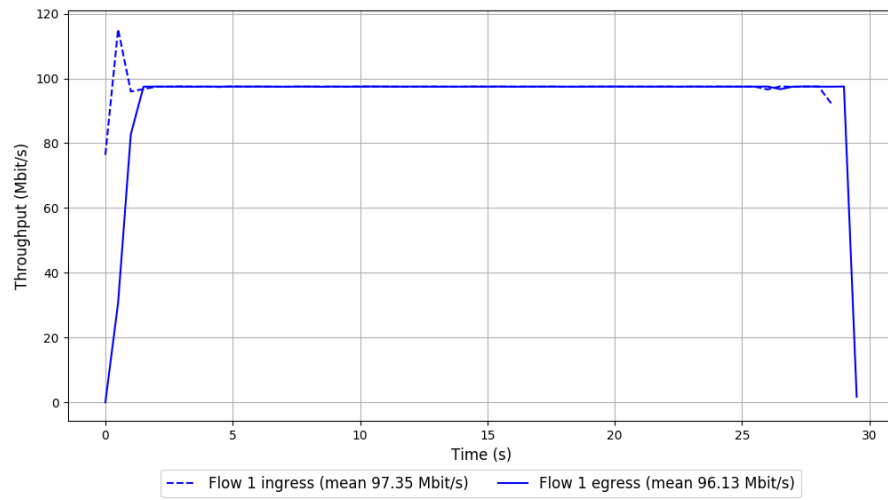
Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 62.35 Mbit/s)   Flow 1 egress (mean 62.21 Mbit/s)

Flow 1 (95th percentile 51.11 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2019-02-05 02:48:15
End at: 2019-02-05 02:48:45
Local clock offset: 2.852 ms
Remote clock offset: -8.836 ms


# Below is generated by plot.py at 2019-02-05 04:33:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.52 Mbit/s
95th percentile per-packet one-way delay: 52.625 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.52 Mbit/s
95th percentile per-packet one-way delay: 52.625 ms
Loss rate: 0.00%
```
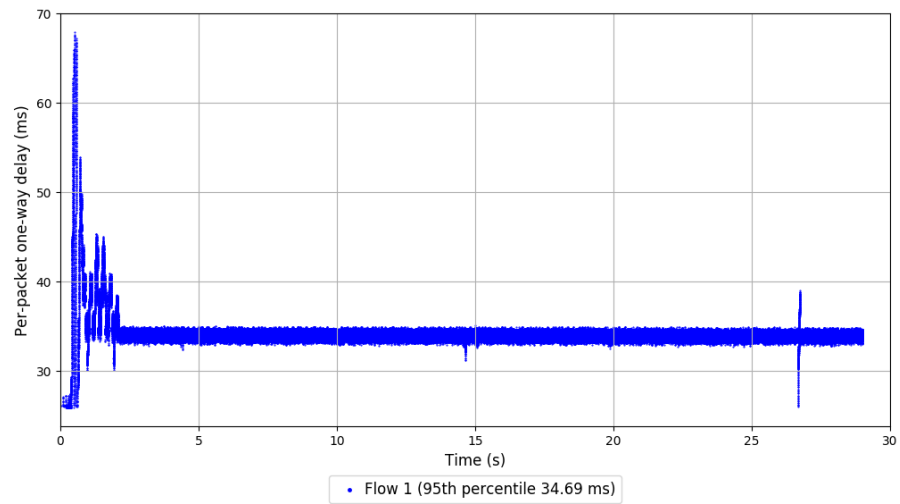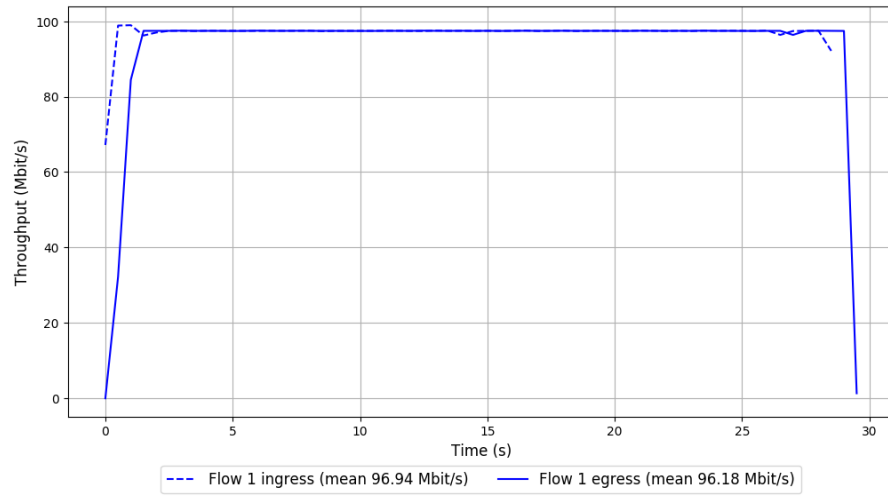
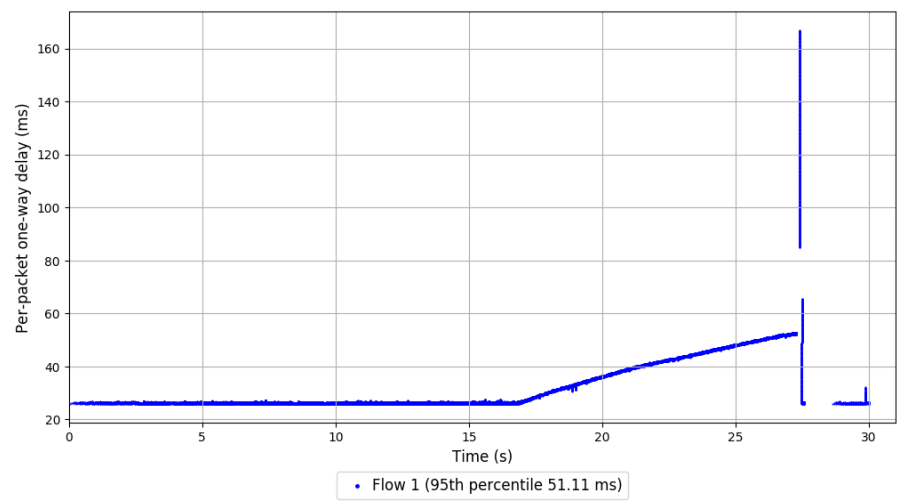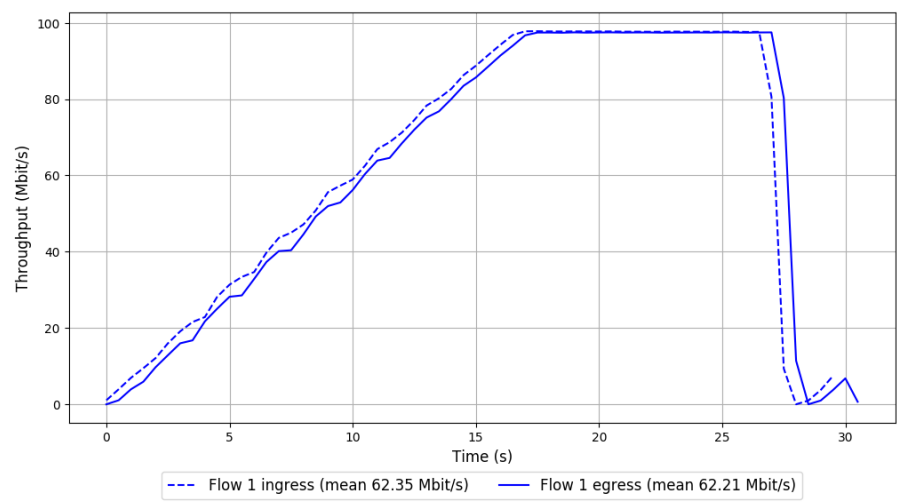## Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2019-02-05 03:12:46
End at: 2019-02-05 03:13:16
Local clock offset: 2.276 ms
Remote clock offset: -8.041 ms


# Below is generated by plot.py at 2019-02-05 04:33:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.32 Mbit/s
95th percentile per-packet one-way delay: 52.943 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.32 Mbit/s
95th percentile per-packet one-way delay: 52.943 ms
Loss rate: 0.00%
```

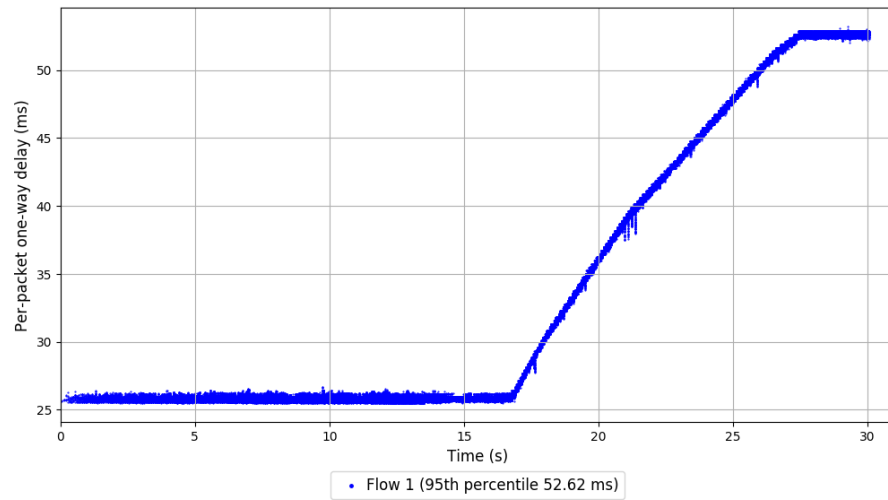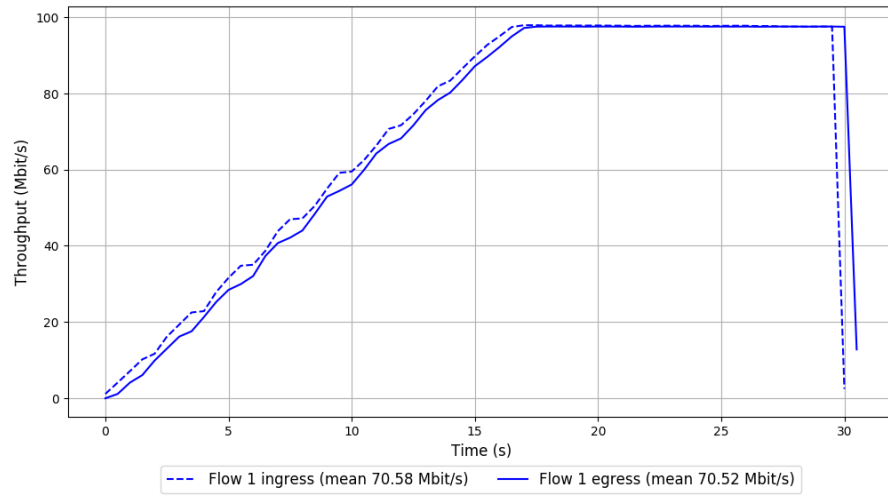# Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 70.38 Mbit/s) — — —   Flow 1 egress (mean 70.32 Mbit/s) ———

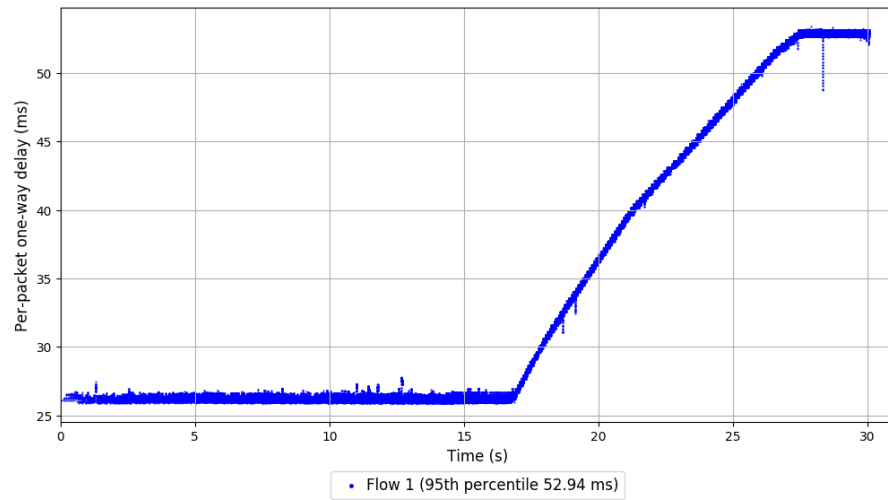

• Flow 1 (95th percentile 52.94 ms)

```
Run 4: Statistics of LEDBAT

Start at: 2019-02-05 03:37:02
End at: 2019-02-05 03:37:32
Local clock offset: 2.608 ms
Remote clock offset: -5.285 ms


# Below is generated by plot.py at 2019-02-05 04:34:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.69 Mbit/s
95th percentile per-packet one-way delay: 38.389 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 46.69 Mbit/s
95th percentile per-packet one-way delay: 38.389 ms
Loss rate: 0.04%
```

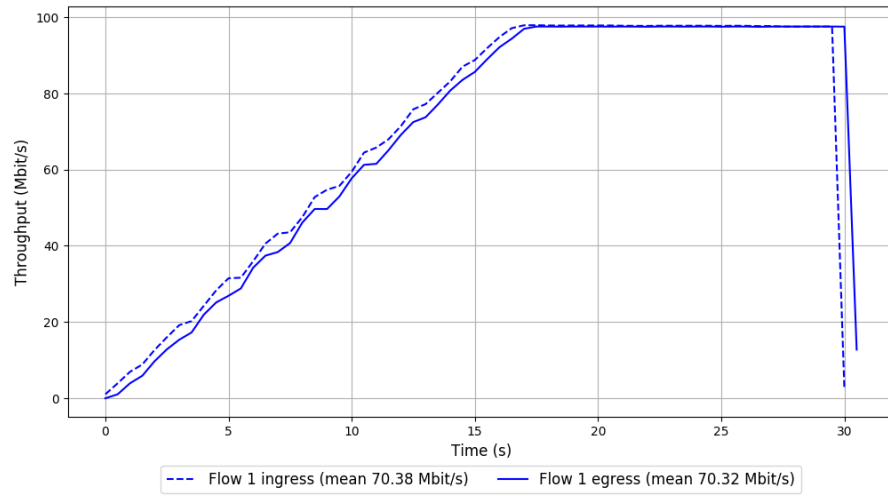# Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 46.71 Mbit/s)   Flow 1 egress (mean 46.69 Mbit/s)

Flow 1 (95th percentile 38.39 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2019-02-05 04:01:29
End at: 2019-02-05 04:01:59
Local clock offset: 6.053 ms
Remote clock offset: -5.311 ms


# Below is generated by plot.py at 2019-02-05 04:34:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.46 Mbit/s
95th percentile per-packet one-way delay: 33.296 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 44.46 Mbit/s
95th percentile per-packet one-way delay: 33.296 ms
Loss rate: 0.04%
```

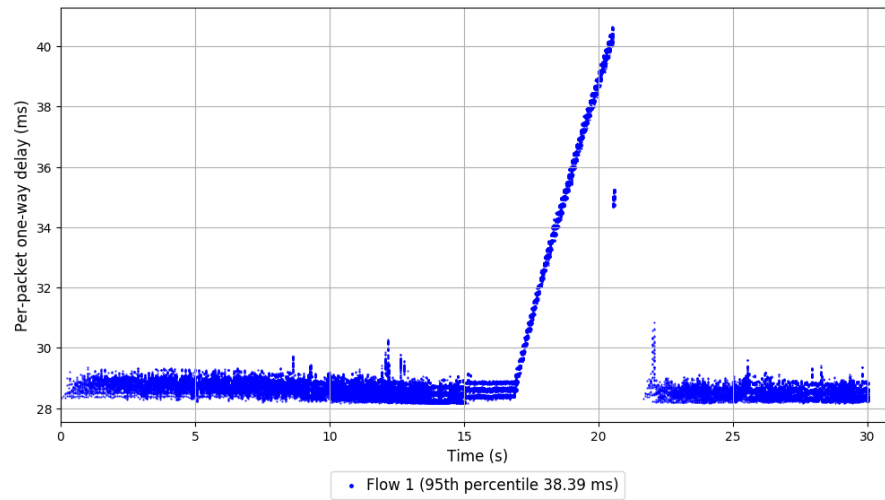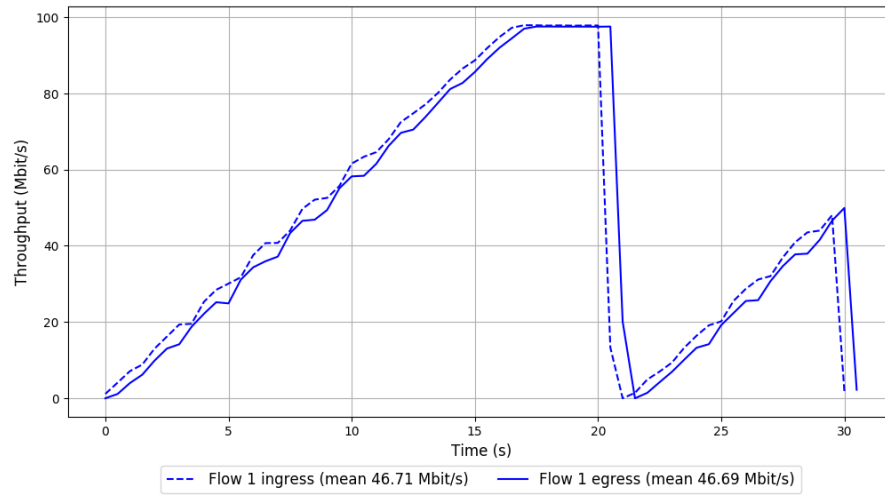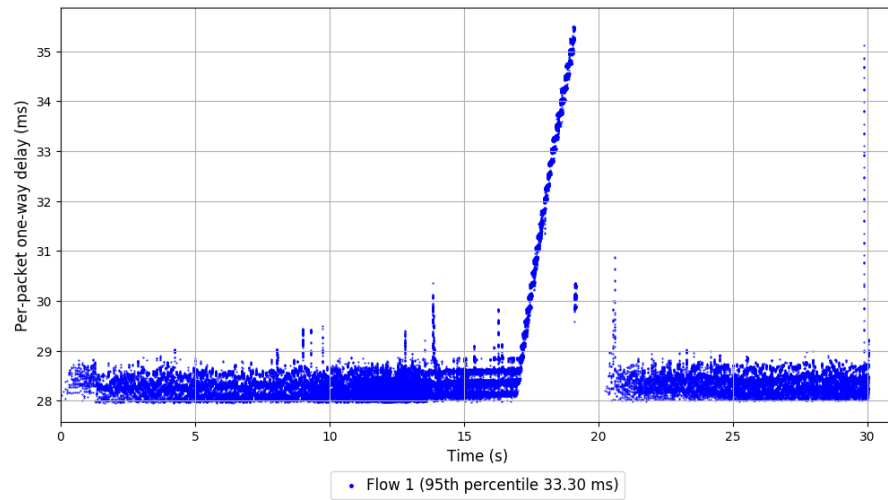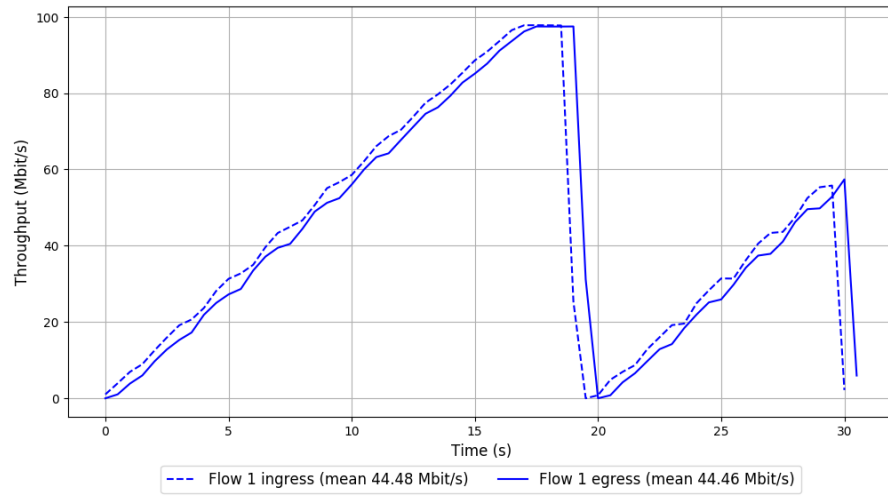Run 5: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC-Allegro

Start at: 2019-02-05 02:32:55
End at: 2019-02-05 02:33:25
Local clock offset: 3.373 ms
Remote clock offset: -6.494 ms


# Below is generated by plot.py at 2019-02-05 04:34:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 33.932 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 33.932 ms
Loss rate: 0.69%
```

Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2019-02-05 02:57:41
End at: 2019-02-05 02:58:11
Local clock offset: 2.338 ms
Remote clock offset: -6.076 ms


# Below is generated by plot.py at 2019-02-05 04:34:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.73 Mbit/s
95th percentile per-packet one-way delay: 34.327 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 91.73 Mbit/s
95th percentile per-packet one-way delay: 34.327 ms
Loss rate: 0.72%
```

Run 2: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 92.39 Mbit/s)   Flow 1 egress (mean 91.73 Mbit/s)

• Flow 1 (95th percentile 34.33 ms)

```
Run 3: Statistics of PCC-Allegro

Start at: 2019-02-05 03:21:59
End at: 2019-02-05 03:22:29
Local clock offset: 2.404 ms
Remote clock offset: -7.794 ms


# Below is generated by plot.py at 2019-02-05 04:34:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.96 Mbit/s
95th percentile per-packet one-way delay: 32.795 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 91.96 Mbit/s
95th percentile per-packet one-way delay: 32.795 ms
Loss rate: 0.69%
```
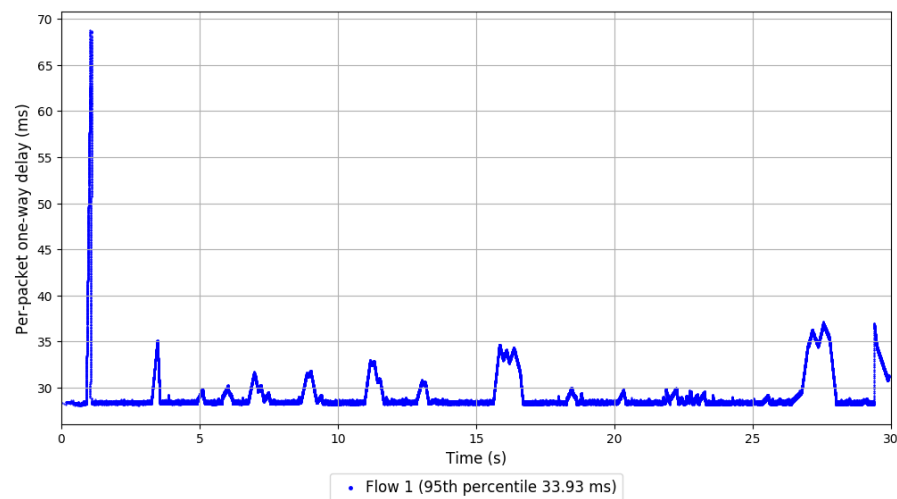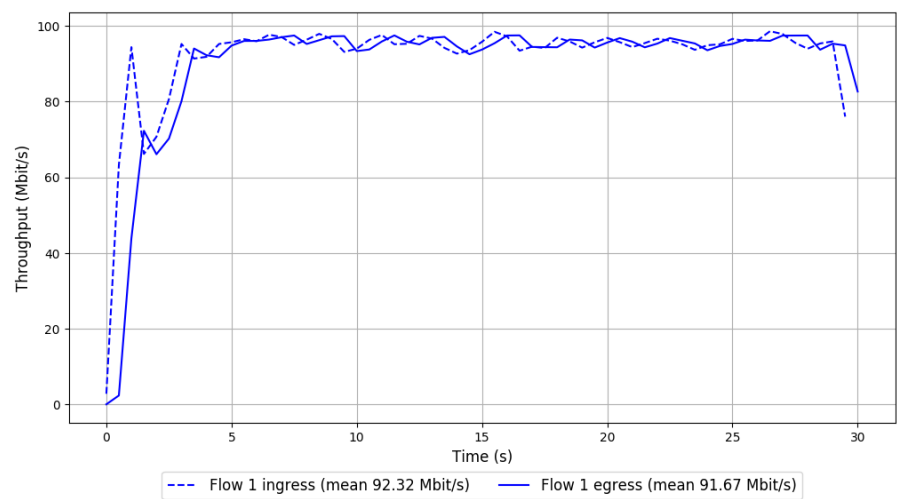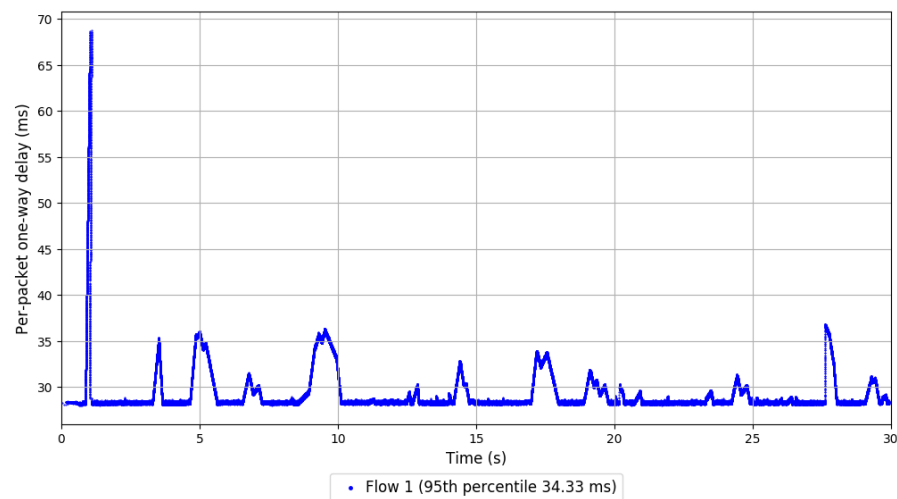
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 92.63 Mbit/s)   Flow 1 egress (mean 91.96 Mbit/s)

Flow 1 (95th percentile 32.80 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2019-02-05 03:46:13
End at: 2019-02-05 03:46:43
Local clock offset: 2.783 ms
Remote clock offset: -7.576 ms


# Below is generated by plot.py at 2019-02-05 04:35:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.08 Mbit/s
95th percentile per-packet one-way delay: 31.159 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 90.08 Mbit/s
95th percentile per-packet one-way delay: 31.159 ms
Loss rate: 0.71%
```
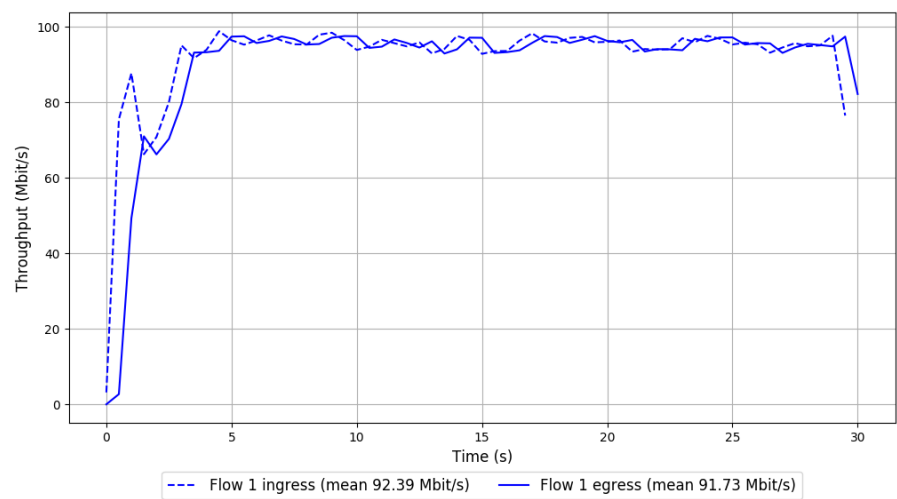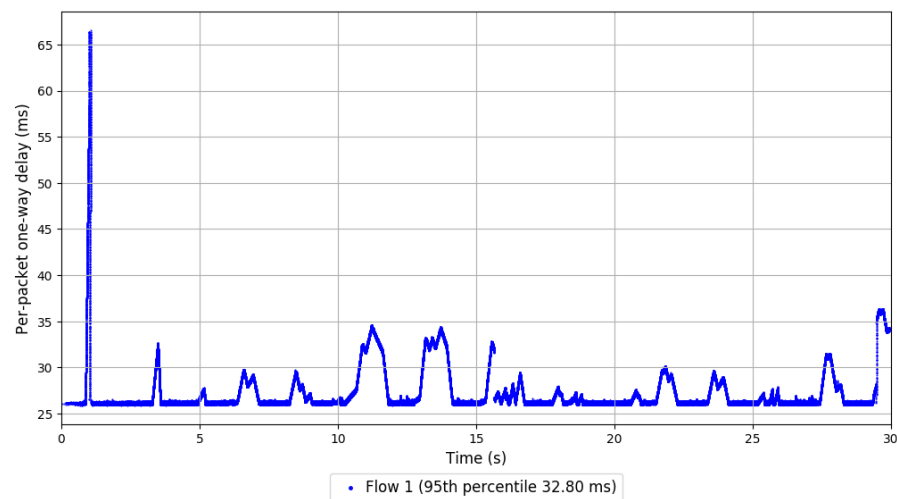
Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 90.72 Mbit/s)   Flow 1 egress (mean 90.08 Mbit/s)

Flow 1 (95th percentile 31.16 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2019-02-05 04:10:41
End at: 2019-02-05 04:11:11
Local clock offset: 6.917 ms
Remote clock offset: -5.524 ms


# Below is generated by plot.py at 2019-02-05 04:35:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.67 Mbit/s
95th percentile per-packet one-way delay: 32.162 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 90.67 Mbit/s
95th percentile per-packet one-way delay: 32.162 ms
Loss rate: 0.73%
```
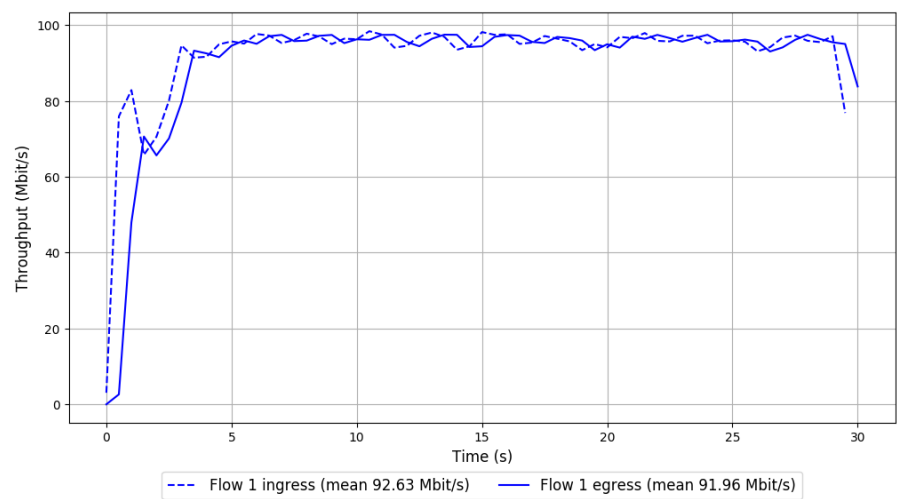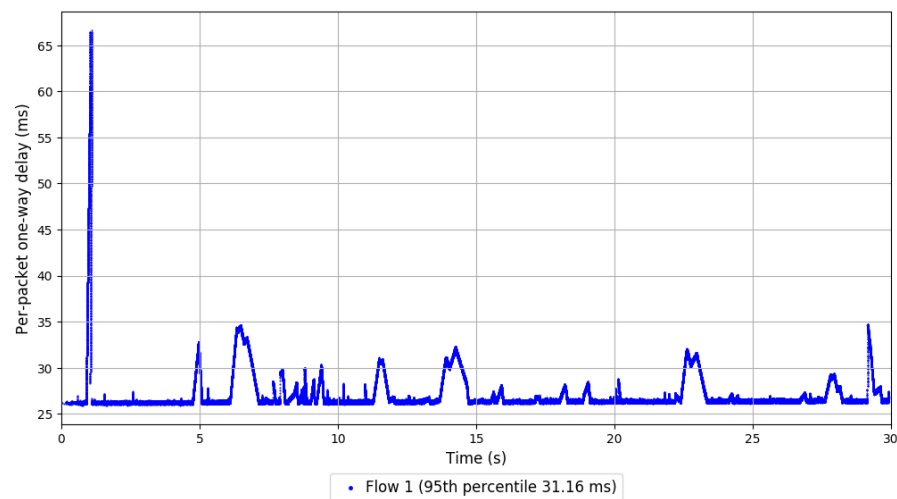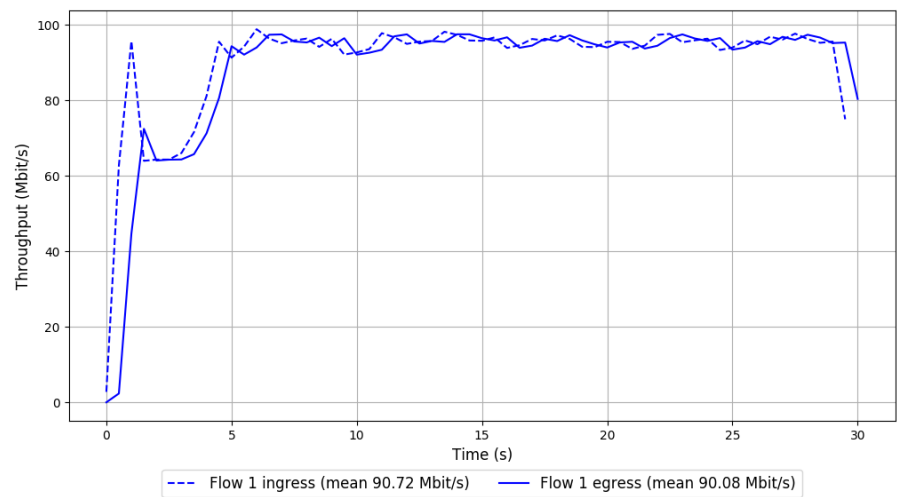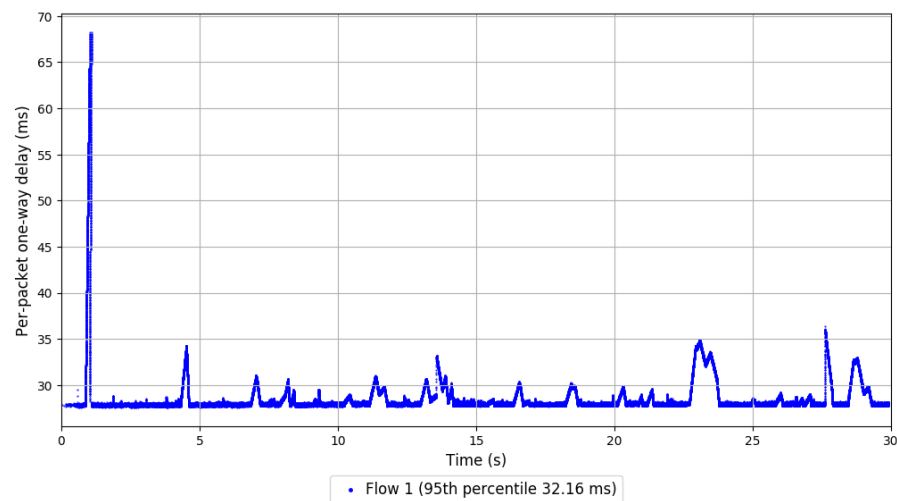
Run 5: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.33 Mbit/s) — Flow 1 egress (mean 90.67 Mbit/s)

• Flow 1 (95th percentile 32.16 ms)

```
Run 1: Statistics of PCC-Expr

Start at: 2019-02-05 02:39:57
End at: 2019-02-05 02:40:27
Local clock offset: 3.06 ms
Remote clock offset: -6.514 ms
```

Run 1: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 0.09 Mbit/s) --- Flow 1 egress (mean 0.03 Mbit/s)
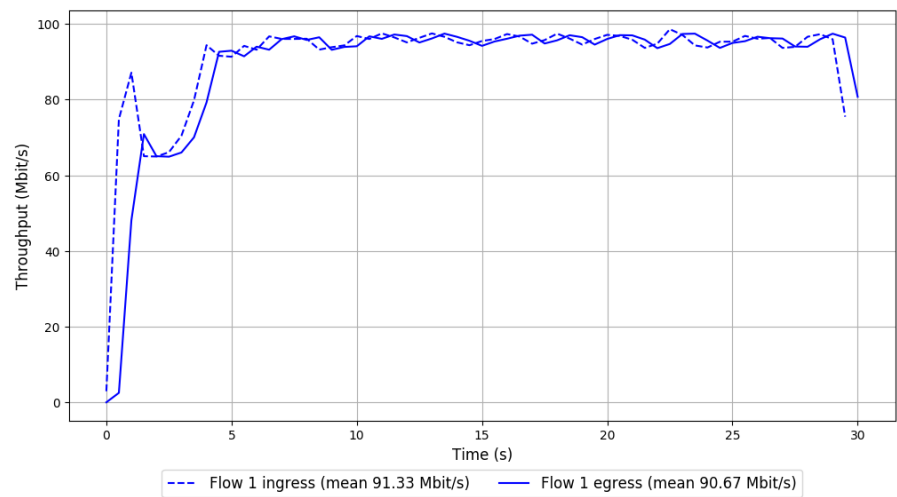

Flow 1 (95th percentile 28.23 ms)

```
Run 2: Statistics of PCC-Expr

Start at: 2019-02-05 03:04:47
End at: 2019-02-05 03:05:17
Local clock offset: 2.247 ms
Remote clock offset: -8.052 ms
```

Run 2: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 0.09 Mbit/s)   Flow 1 egress (mean 0.03 Mbit/s)

Flow 1 (95th percentile 26.03 ms)
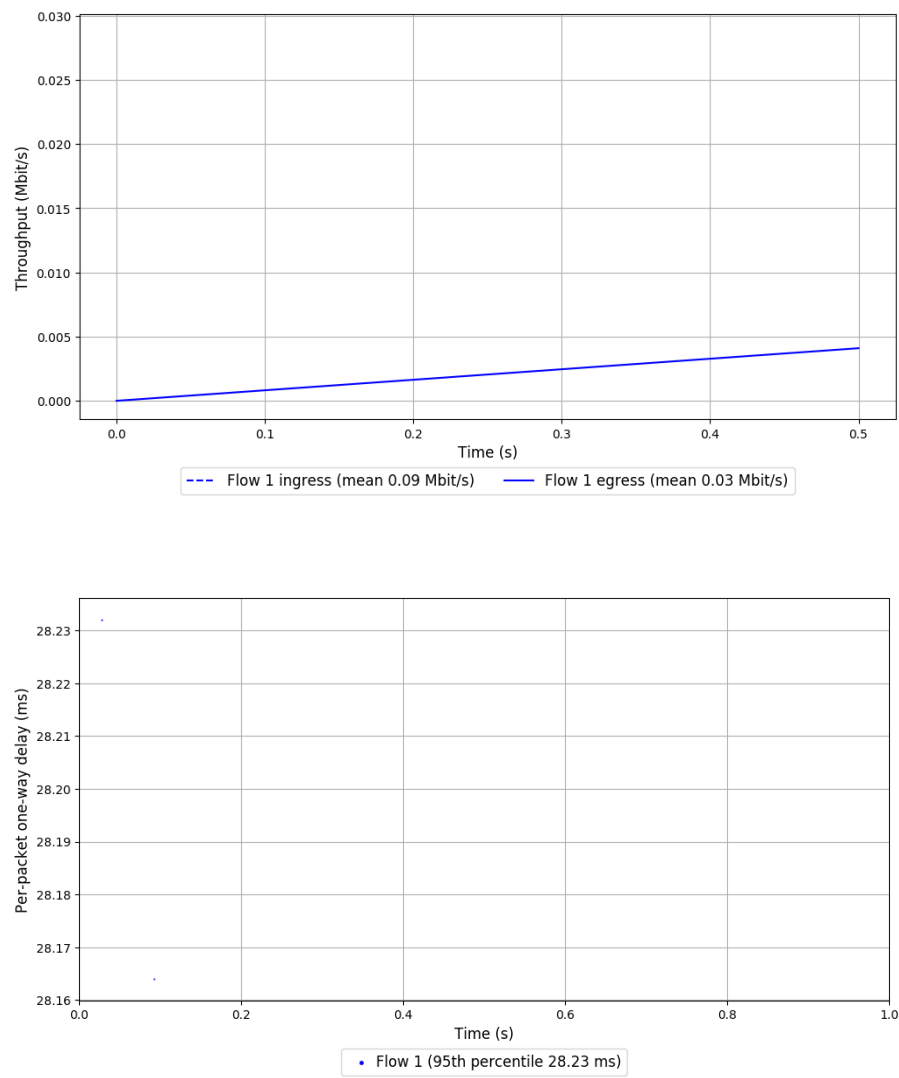
```
Run 3: Statistics of PCC-Expr

Start at: 2019-02-05 03:29:03
End at: 2019-02-05 03:29:33
Local clock offset: 2.5 ms
Remote clock offset: -5.163 ms
```

Run 3: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 0.09 Mbit/s) --- Flow 1 egress (mean 0.03 Mbit/s)

Flow 1 (95th percentile 28.60 ms)
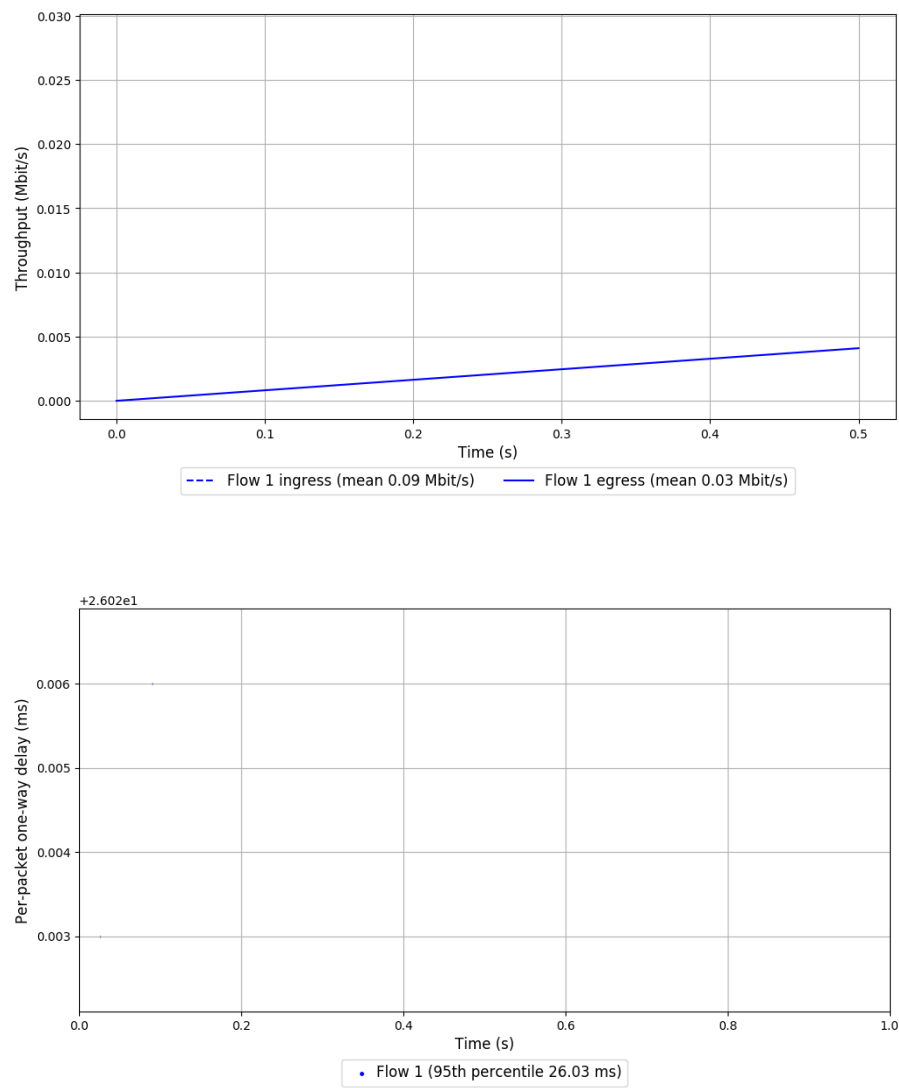
```
Run 4: Statistics of PCC-Expr

Start at: 2019-02-05 03:53:15
End at: 2019-02-05 03:53:45
Local clock offset: 4.82 ms
Remote clock offset: -5.59 ms
```

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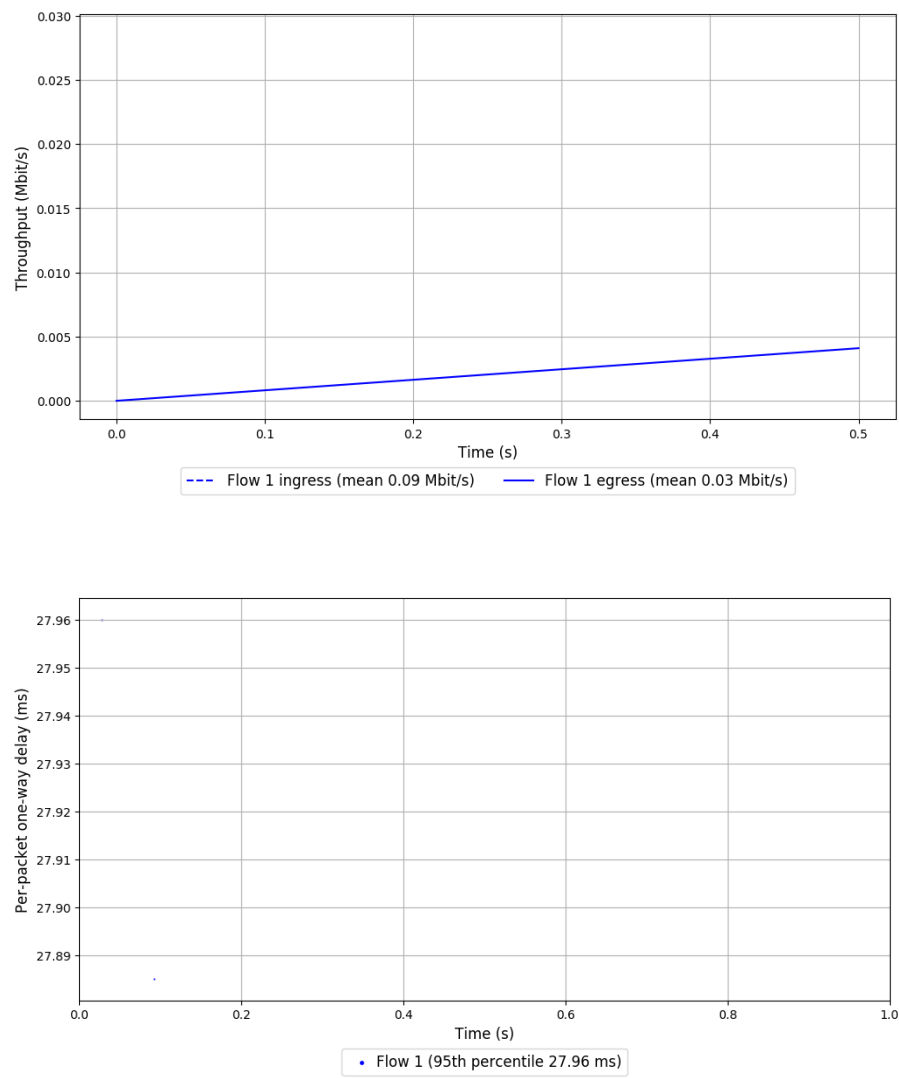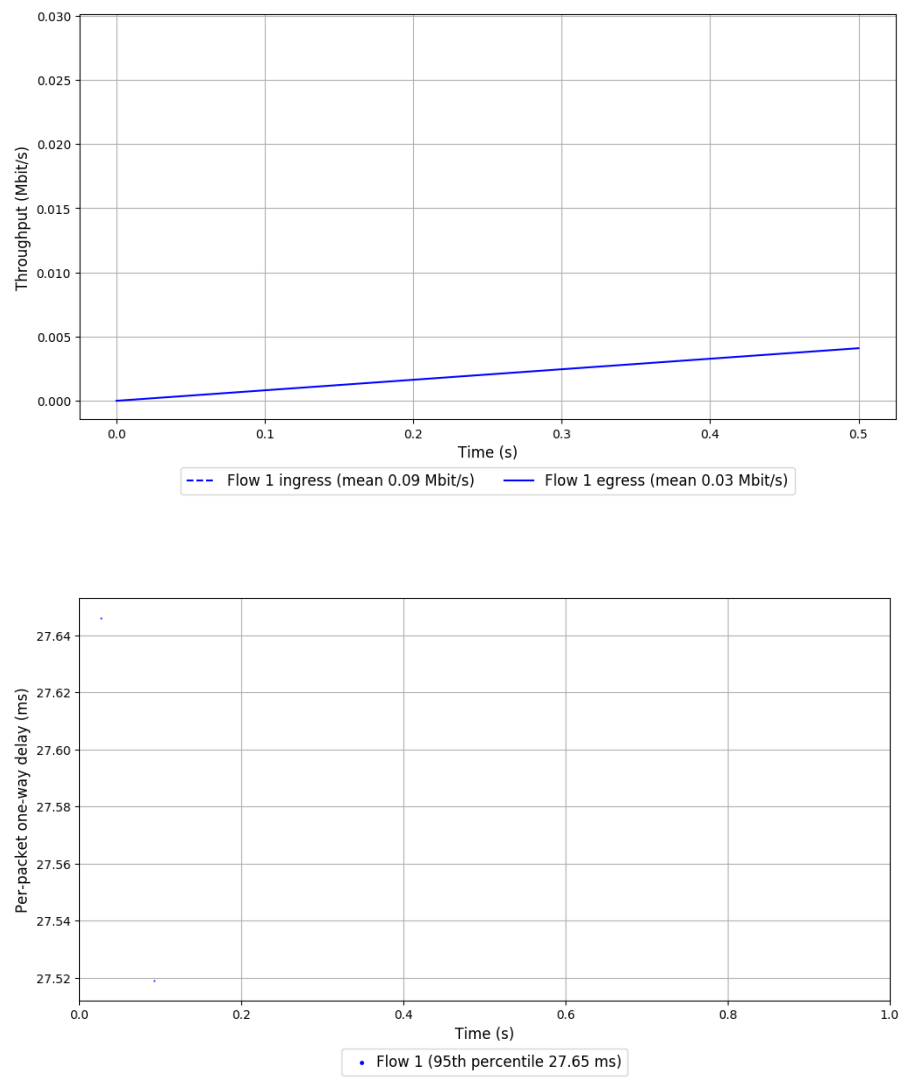
```
Run 5: Statistics of PCC-Expr

Start at: 2019-02-05 04:17:54
End at: 2019-02-05 04:18:24
Local clock offset: 6.591 ms
Remote clock offset: -5.478 ms
```

Run 5: Report of PCC-Expr — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2019-02-05 02:24:53
End at: 2019-02-05 02:25:23
Local clock offset: 4.625 ms
Remote clock offset: -8.52 ms


# Below is generated by plot.py at 2019-02-05 04:35:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.08 Mbit/s
95th percentile per-packet one-way delay: 57.565 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 82.08 Mbit/s
95th percentile per-packet one-way delay: 57.565 ms
Loss rate: 0.98%
```
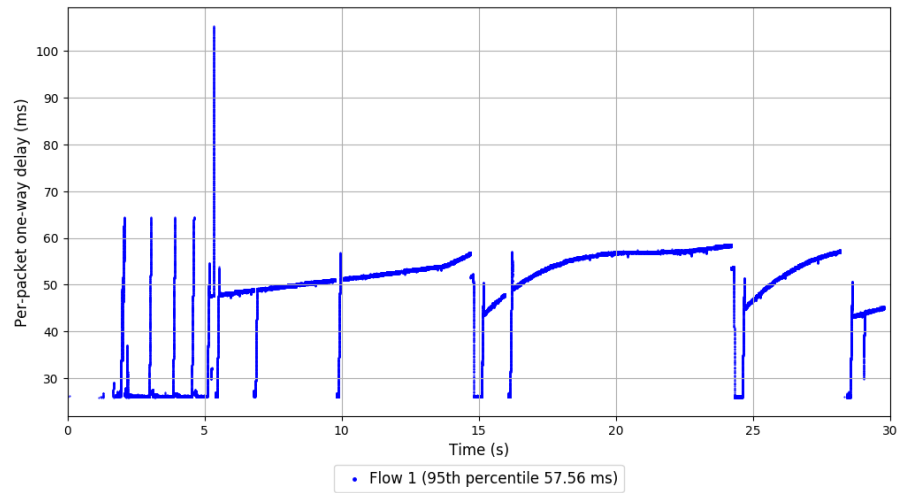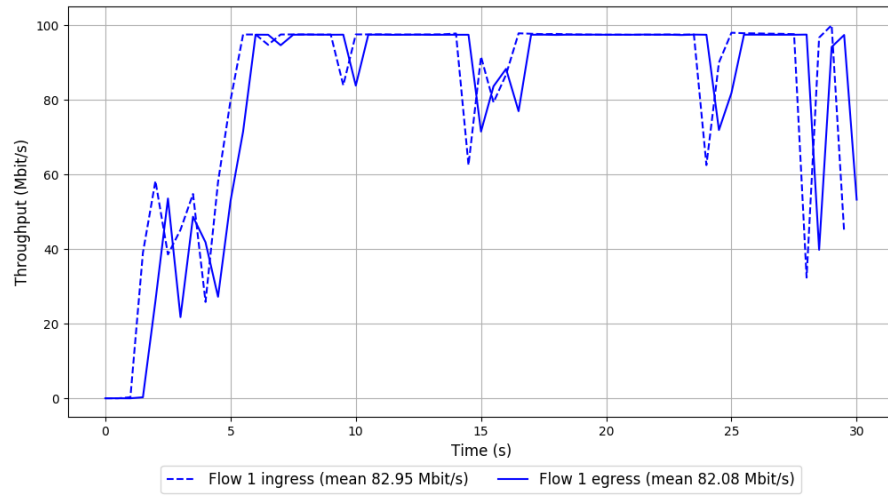
Run 1: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 82.95 Mbit/s) — — — Flow 1 egress (mean 82.08 Mbit/s)

• Flow 1 (95th percentile 57.56 ms)

```
Run 2: Statistics of QUIC Cubic

Start at: 2019-02-05 02:49:28
End at: 2019-02-05 02:49:58
Local clock offset: 2.719 ms
Remote clock offset: -6.315 ms


# Below is generated by plot.py at 2019-02-05 04:35:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.00 Mbit/s
95th percentile per-packet one-way delay: 62.260 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 79.00 Mbit/s
95th percentile per-packet one-way delay: 62.260 ms
Loss rate: 1.72%
```
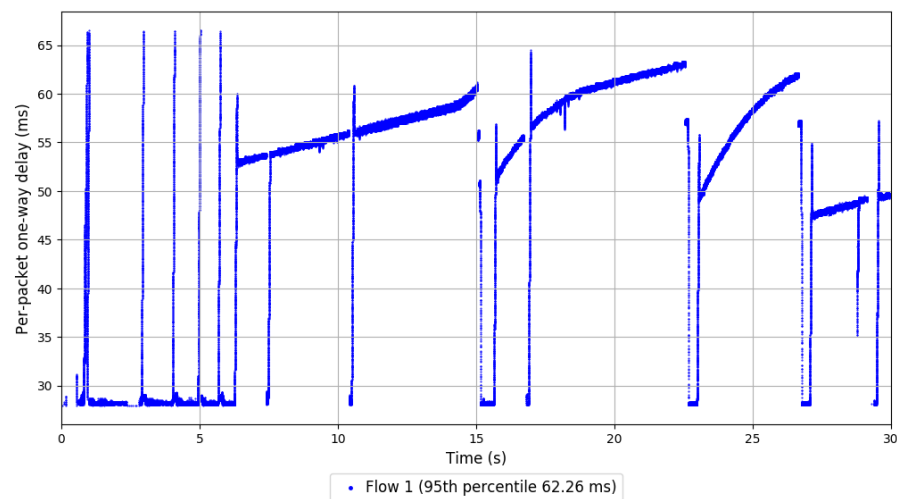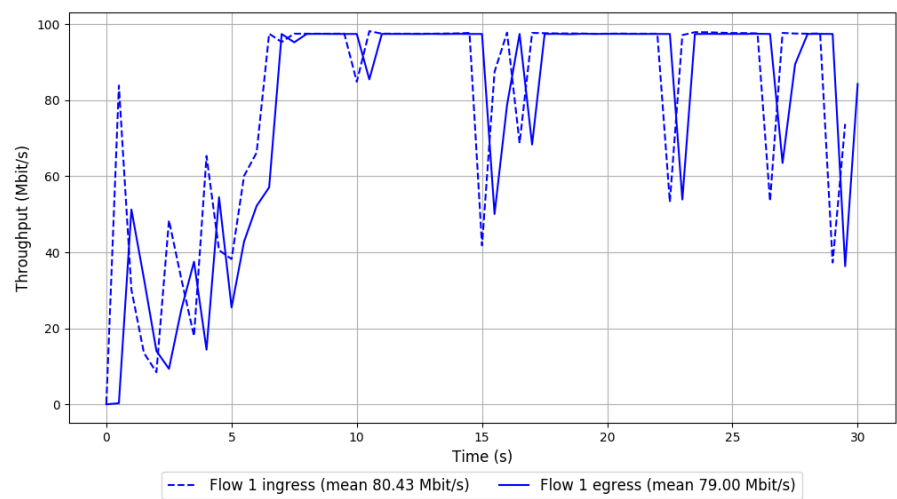
Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2019-02-05 03:13:56
End at: 2019-02-05 03:14:26
Local clock offset: 2.298 ms
Remote clock offset: -5.258 ms


# Below is generated by plot.py at 2019-02-05 04:35:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.01 Mbit/s
95th percentile per-packet one-way delay: 65.822 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 79.01 Mbit/s
95th percentile per-packet one-way delay: 65.822 ms
Loss rate: 2.08%
```
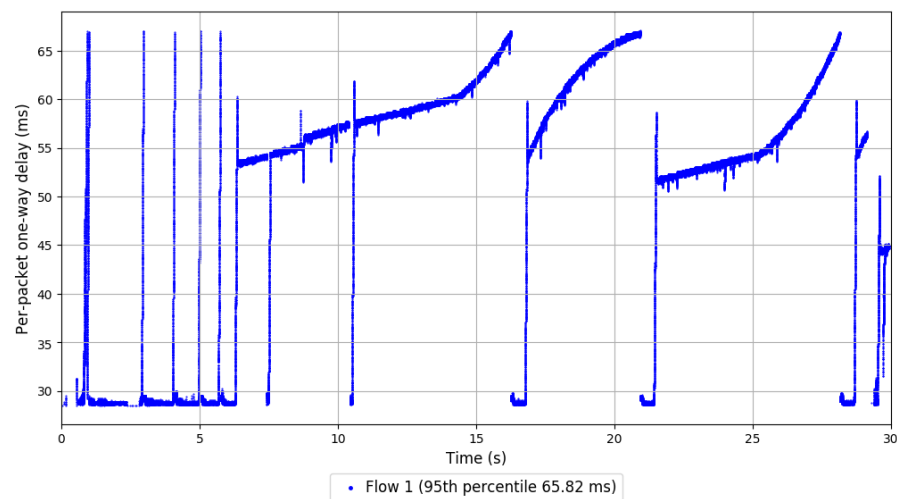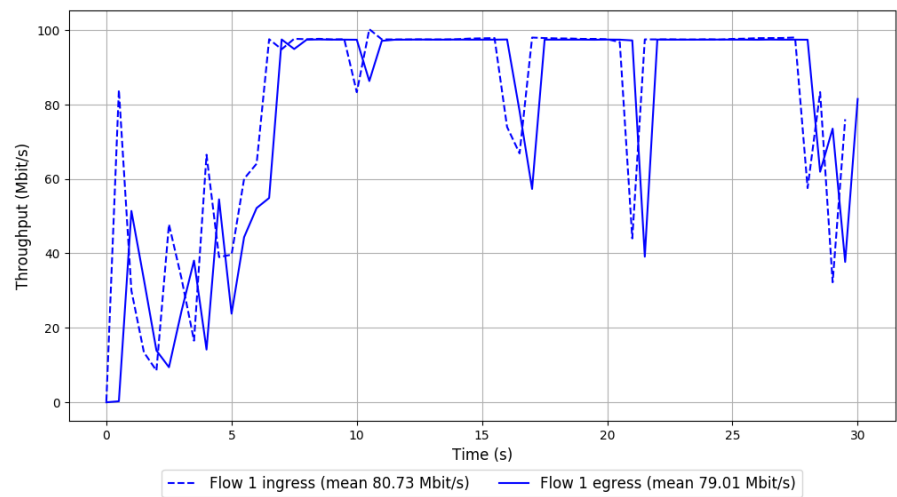
Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 80.73 Mbit/s)   Flow 1 egress (mean 79.01 Mbit/s)

Flow 1 (95th percentile 65.82 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2019-02-05 03:38:10
End at: 2019-02-05 03:38:40
Local clock offset: 2.618 ms
Remote clock offset: -7.921 ms


# Below is generated by plot.py at 2019-02-05 04:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.58 Mbit/s
95th percentile per-packet one-way delay: 62.709 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 79.58 Mbit/s
95th percentile per-packet one-way delay: 62.709 ms
Loss rate: 1.91%
```

Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 81.22 Mbit/s) --- Flow 1 egress (mean 79.58 Mbit/s)
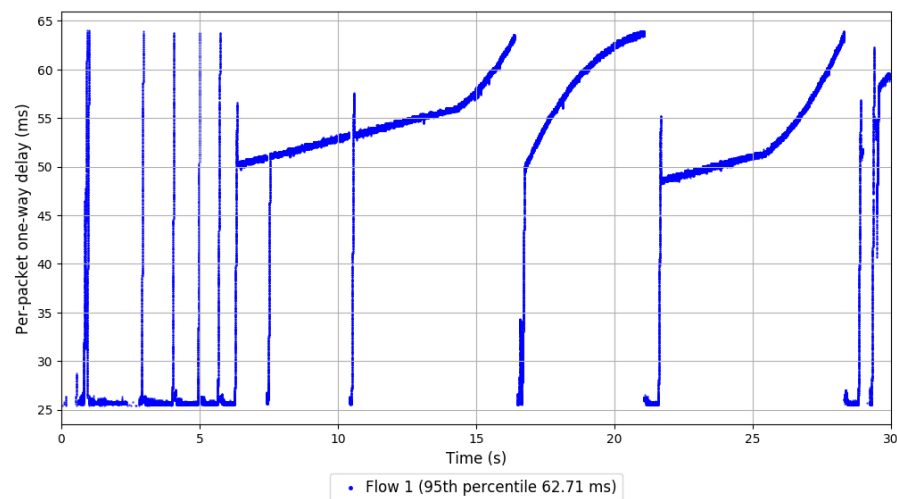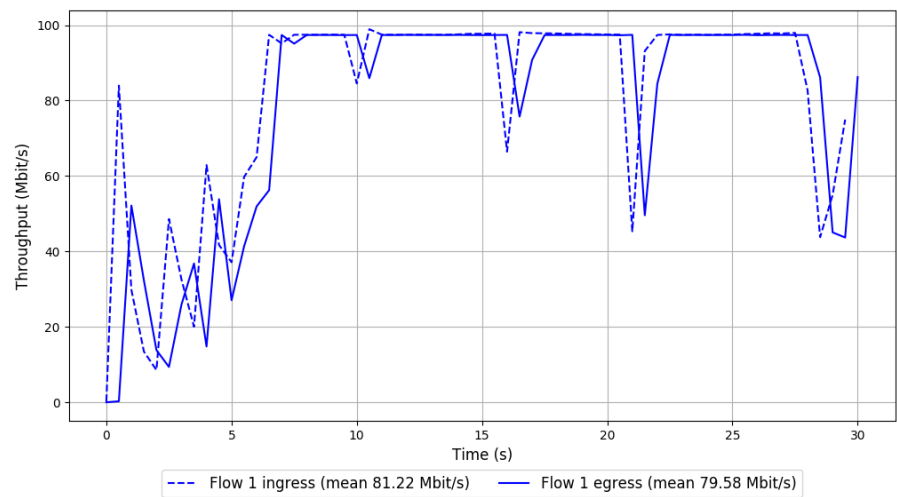

· Flow 1 (95th percentile 62.71 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2019-02-05 04:02:38
End at: 2019-02-05 04:03:08
Local clock offset: 6.221 ms
Remote clock offset: -5.262 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.88 Mbit/s
95th percentile per-packet one-way delay: 63.032 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 84.88 Mbit/s
95th percentile per-packet one-way delay: 63.032 ms
Loss rate: 1.14%
```
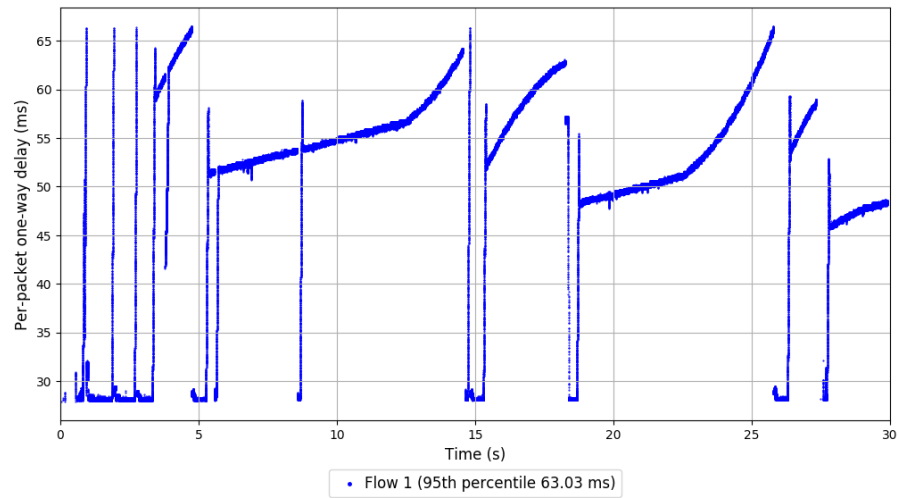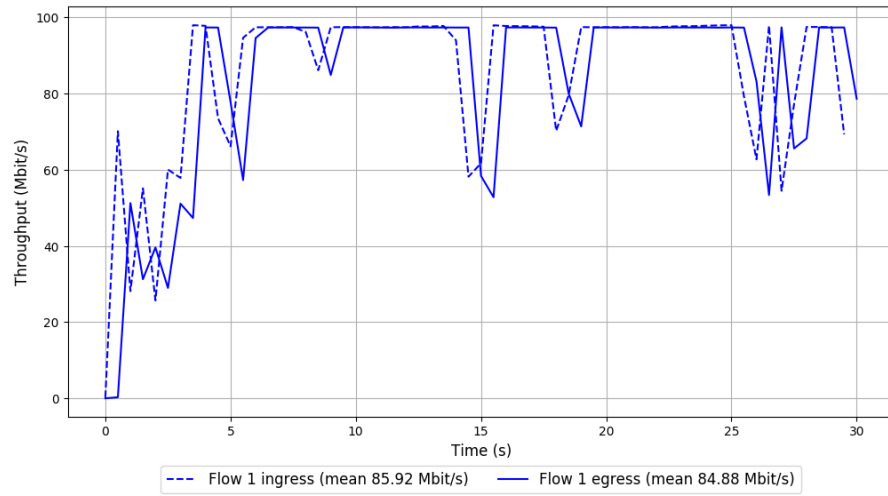
Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 85.92 Mbit/s) Flow 1 egress (mean 84.88 Mbit/s)

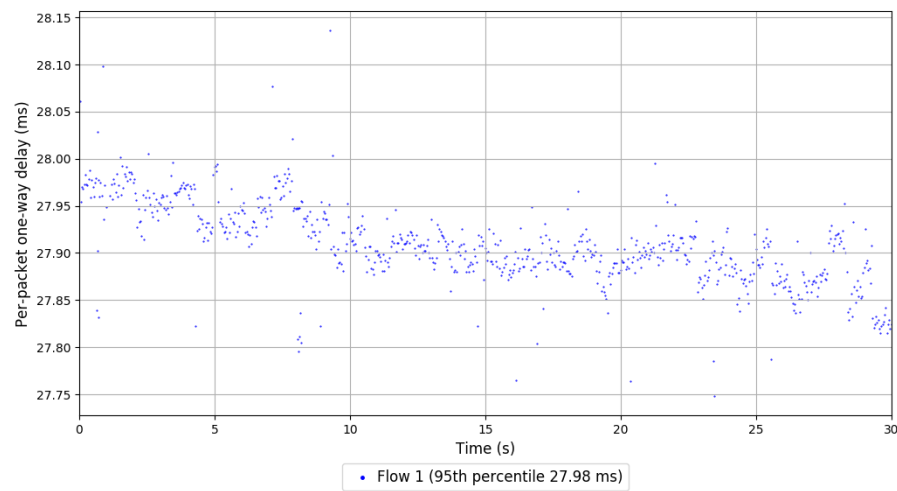

• Flow 1 (95th percentile 63.03 ms)

```
Run 1: Statistics of SCReAM

Start at: 2019-02-05 02:26:03
End at: 2019-02-05 02:26:33
Local clock offset: 4.343 ms
Remote clock offset: -6.812 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.977 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.977 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.21 Mbit/s) --- Flow 1 egress (mean 0.21 Mbit/s)
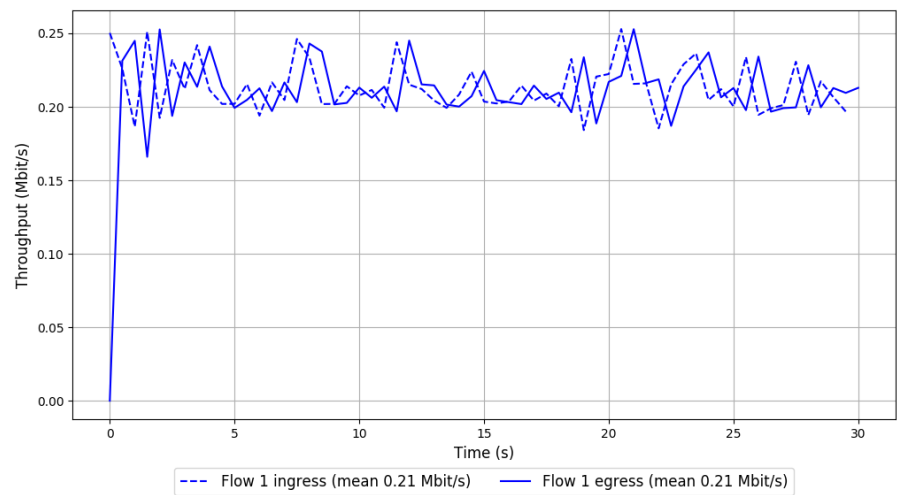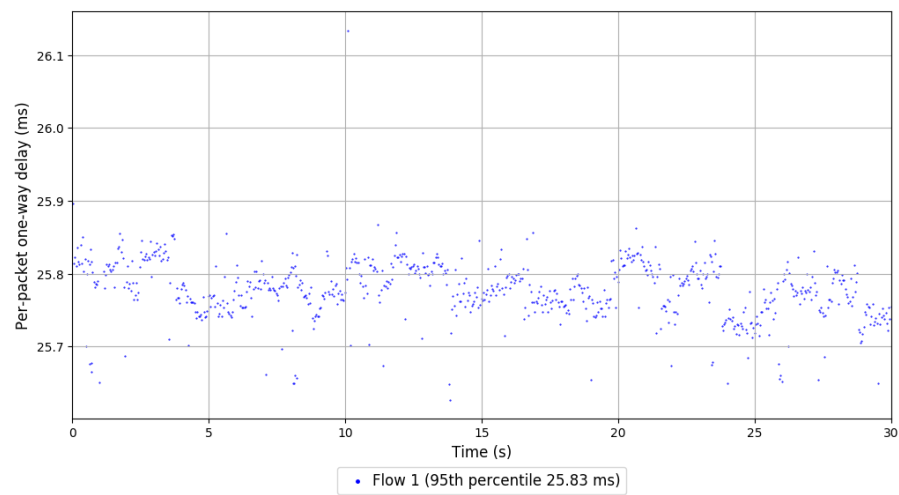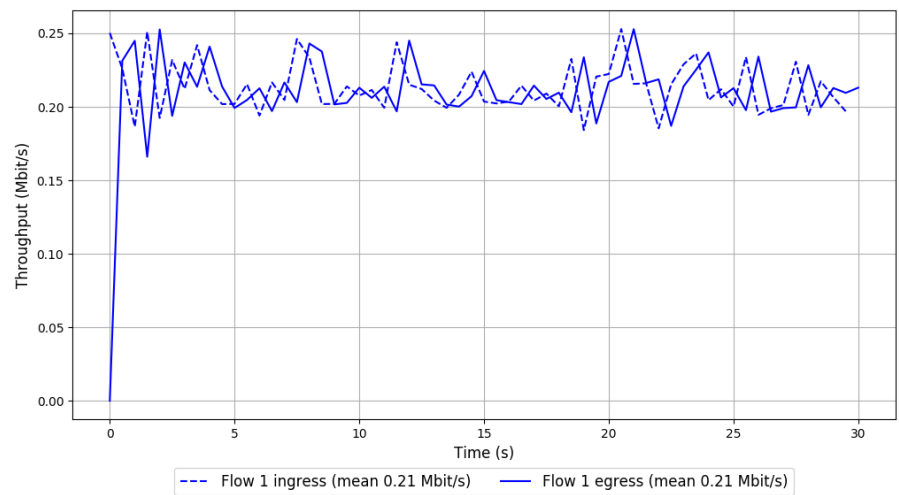

Flow 1 (95th percentile 27.98 ms)

```
Run 2: Statistics of SCReAM

Start at: 2019-02-05 02:50:40
End at: 2019-02-05 02:51:11
Local clock offset: 2.624 ms
Remote clock offset: -8.724 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.831 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.831 ms
Loss rate: 0.00%
```

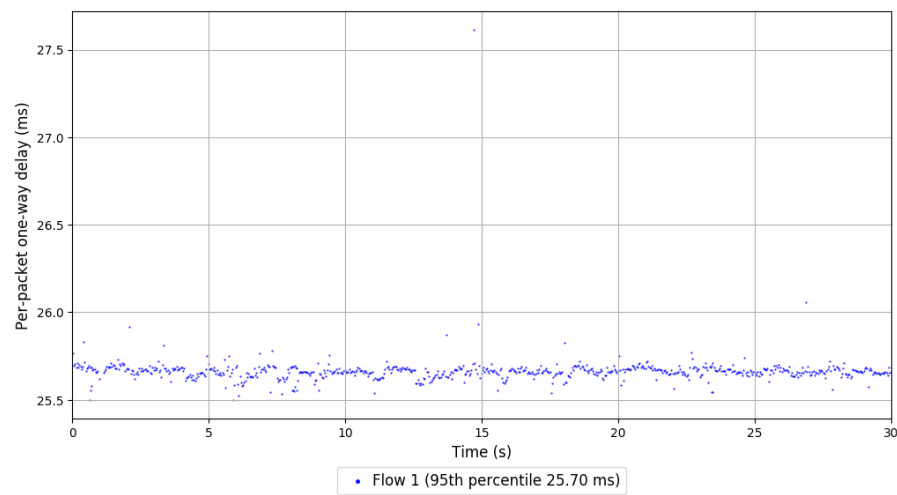# Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2019-02-05 03:15:06
End at: 2019-02-05 03:15:36
Local clock offset: 2.319 ms
Remote clock offset: -8.311 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.704 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.704 ms
Loss rate: 0.00%
```
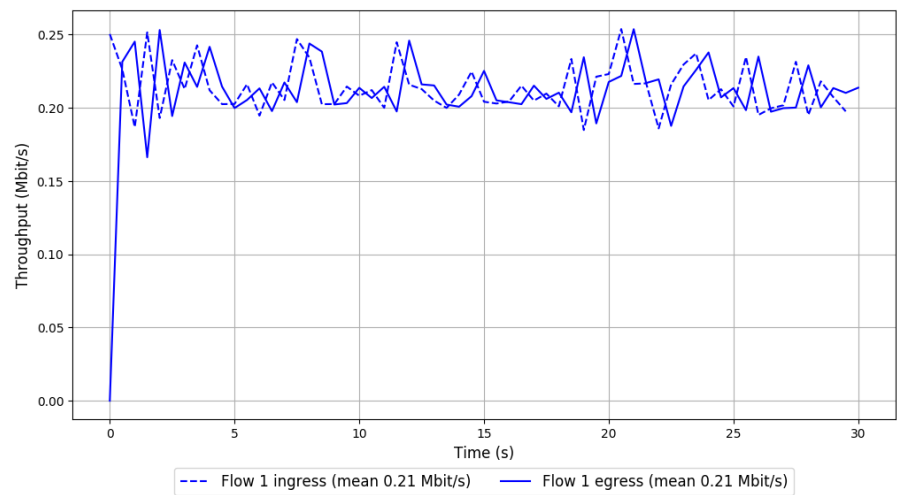
Run 3: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.21 Mbit/s)   Flow 1 egress (mean 0.21 Mbit/s)

Flow 1 (95th percentile 25.70 ms)

```
Run 4: Statistics of SCReAM

Start at: 2019-02-05 03:39:20
End at: 2019-02-05 03:39:50
Local clock offset: 2.633 ms
Remote clock offset: -7.62 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 26.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 26.049 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2019-02-05 04:03:48
End at: 2019-02-05 04:04:18
Local clock offset: 6.317 ms
Remote clock offset: -5.572 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.993 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.993 ms
Loss rate: 0.00%
```
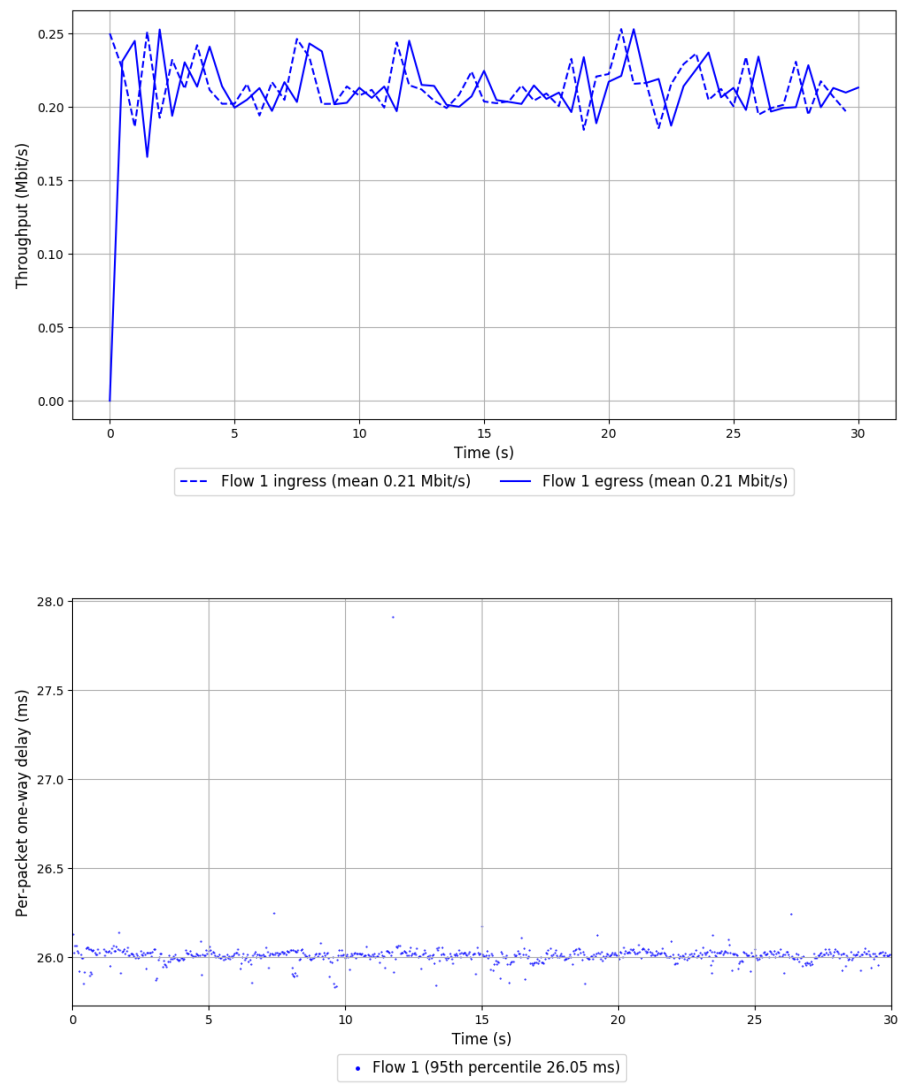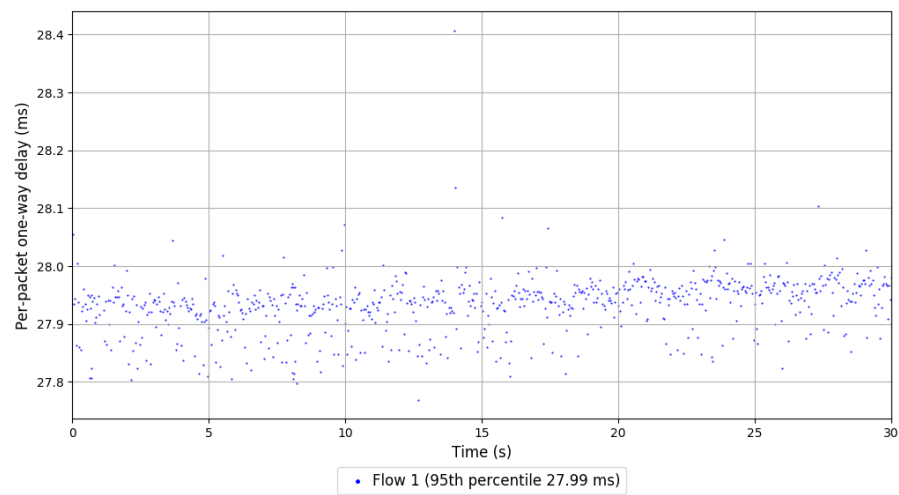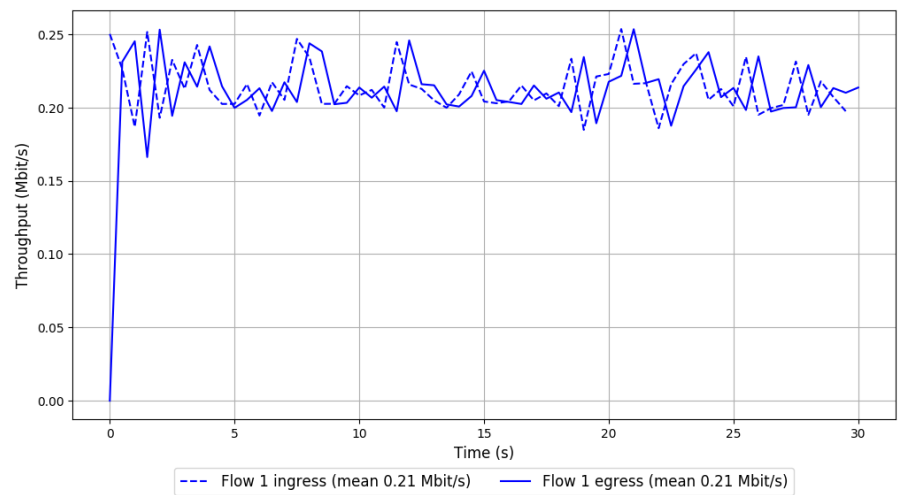
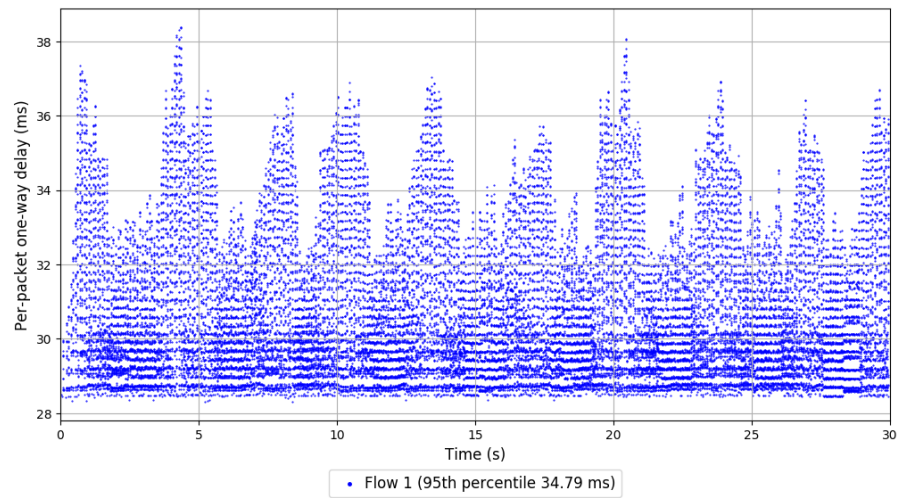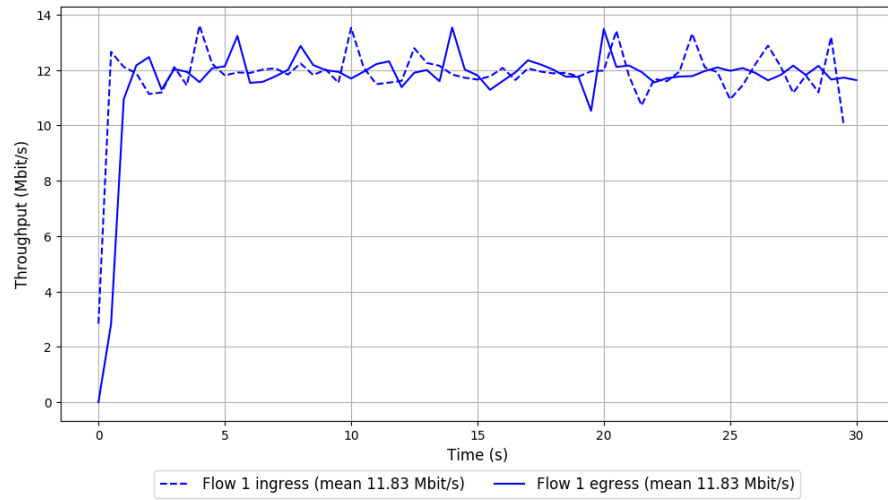## Run 5: Report of SCReAM — Data Link

```
Run 1: Statistics of Sprout

Start at: 2019-02-05 02:42:22
End at: 2019-02-05 02:42:52
Local clock offset: 3.047 ms
Remote clock offset: -6.154 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.83 Mbit/s
95th percentile per-packet one-way delay: 34.792 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.83 Mbit/s
95th percentile per-packet one-way delay: 34.792 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

Flow 1 ingress (mean 11.83 Mbit/s)   Flow 1 egress (mean 11.83 Mbit/s)
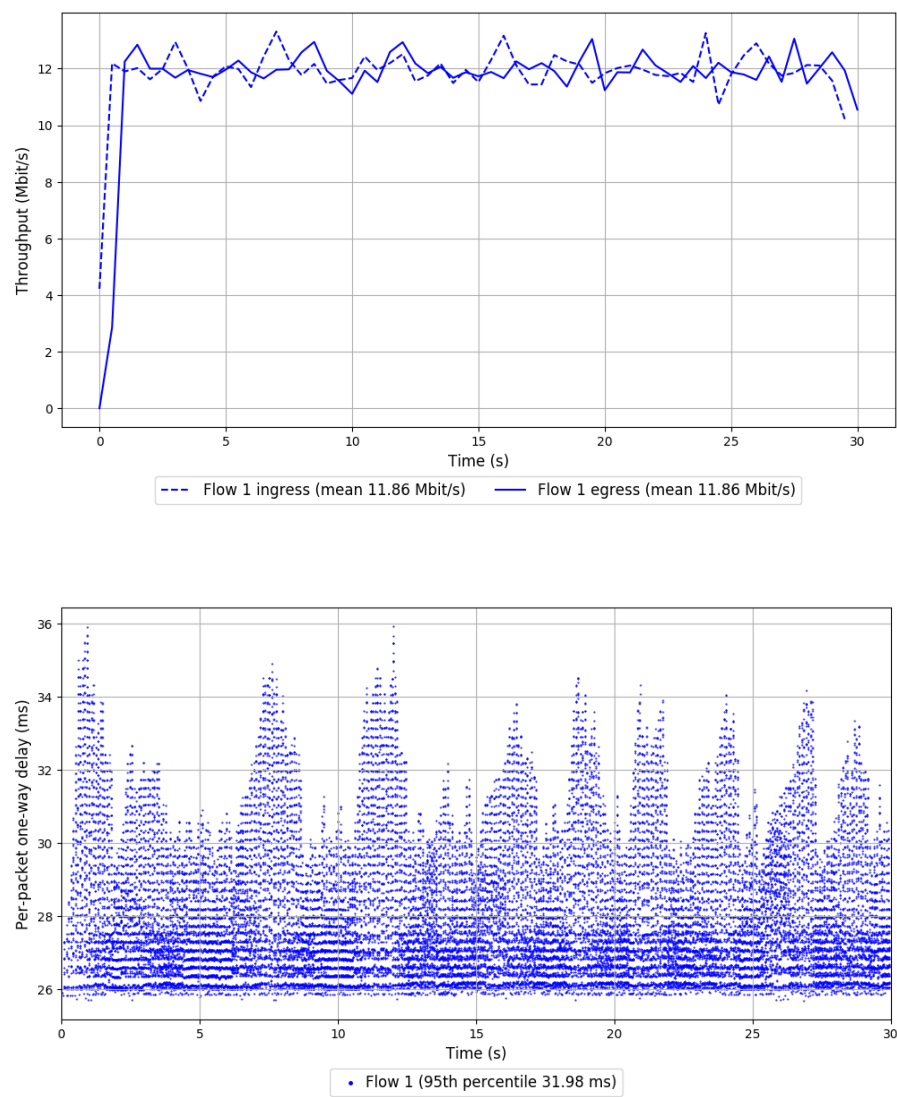

Flow 1 (95th percentile 34.79 ms)

Run 2: Statistics of Sprout

Start at: 2019-02-05 03:07:04
End at: 2019-02-05 03:07:34
Local clock offset: 2.254 ms
Remote clock offset: -8.154 ms

Below is generated by plot.py at 2019-02-05 04:35:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 31.976 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 31.976 ms
Loss rate: 0.00%
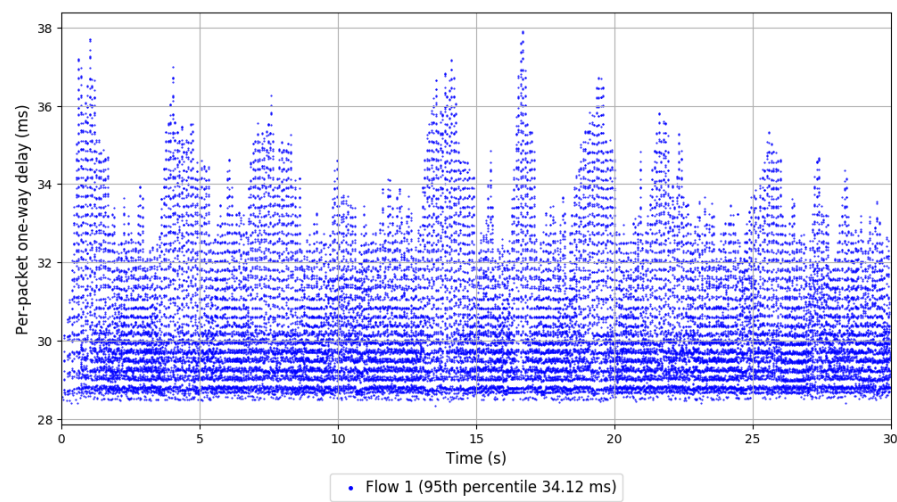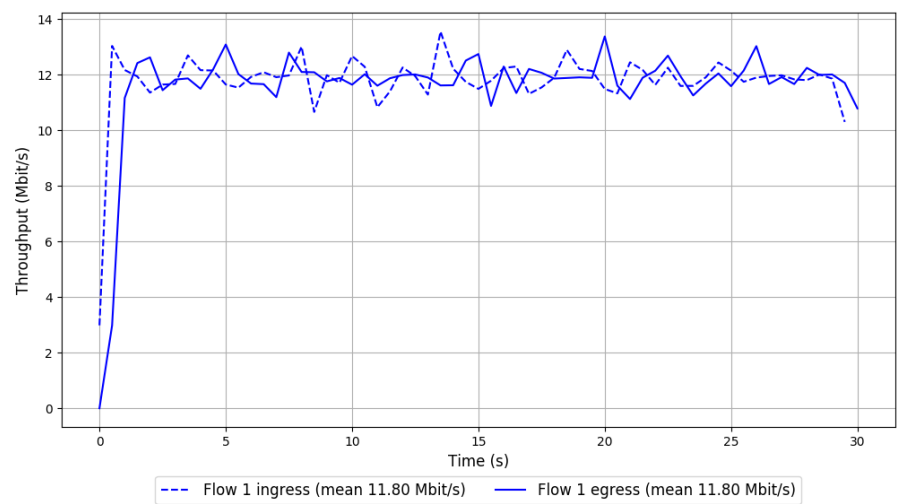
Run 2: Report of Sprout — Data Link

Flow 1 ingress (mean 11.86 Mbit/s)   —— Flow 1 egress (mean 11.86 Mbit/s)

• Flow 1 (95th percentile 31.98 ms)

```
Run 3: Statistics of Sprout

Start at: 2019-02-05 03:31:19
End at: 2019-02-05 03:31:49
Local clock offset: 2.535 ms
Remote clock offset: -5.135 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 34.119 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 34.119 ms
Loss rate: 0.00%
```
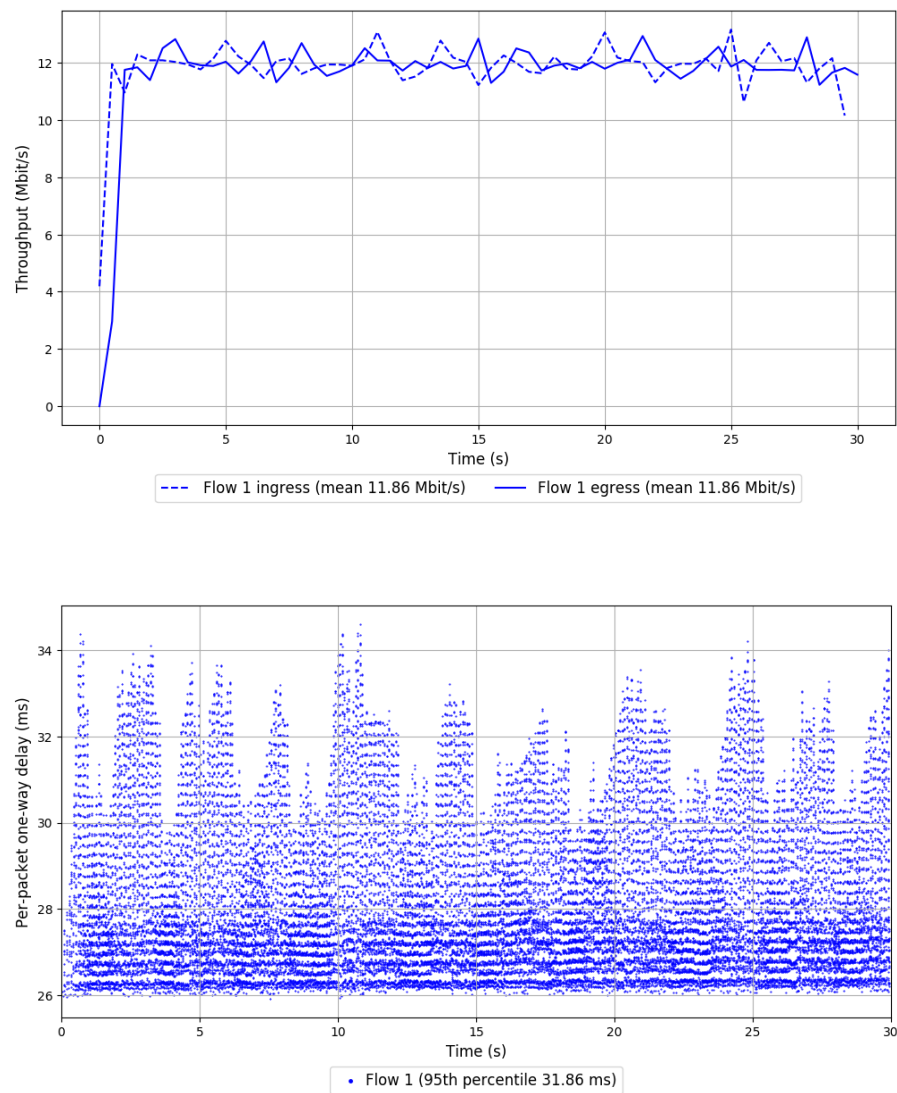
Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2019-02-05 03:55:32
End at: 2019-02-05 03:56:02
Local clock offset: 5.256 ms
Remote clock offset: -7.418 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 31.858 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 31.858 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2019-02-05 04:20:11
End at: 2019-02-05 04:20:41
Local clock offset: 5.791 ms
Remote clock offset: -7.09 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 31.337 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 31.337 ms
Loss rate: 0.00%
```
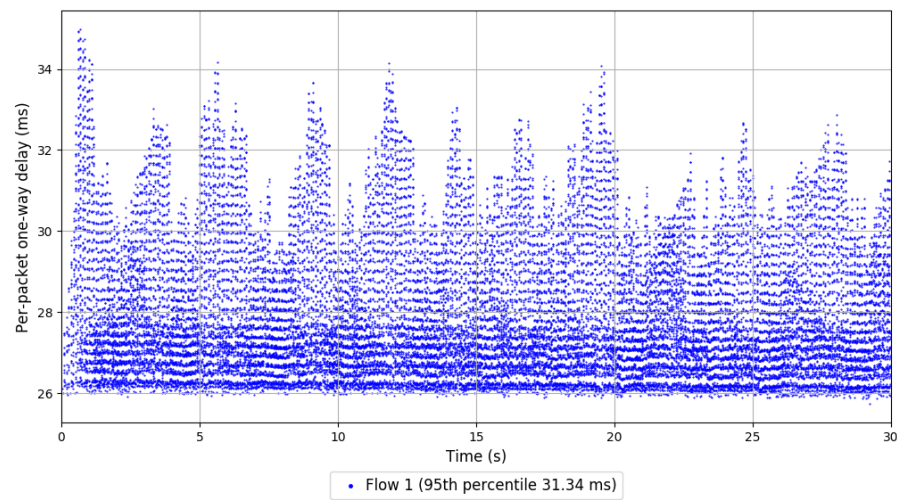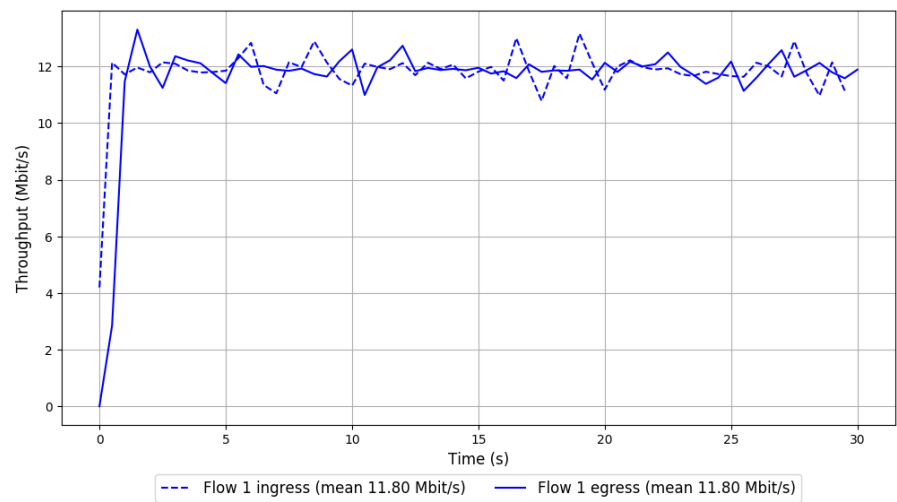
Run 5: Report of Sprout — Data Link

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

Start at: 2019-02-05 02:44:47
End at: 2019-02-05 02:45:18
Local clock offset: 3.052 ms
Remote clock offset: -8.439 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 26.291 ms
Loss rate: 77.79%
-- Flow 1:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 26.291 ms
Loss rate: 77.79%
```
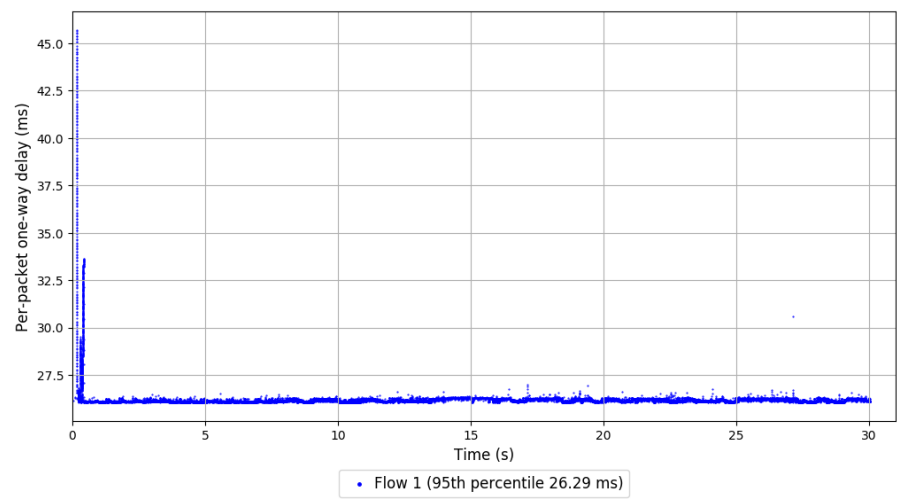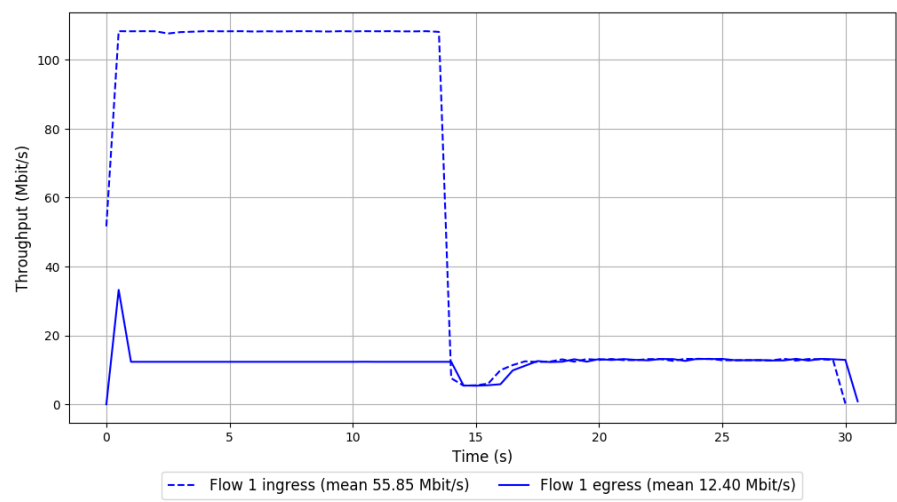
Run 1: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 55.85 Mbit/s) — — — Flow 1 egress (mean 12.40 Mbit/s) ———
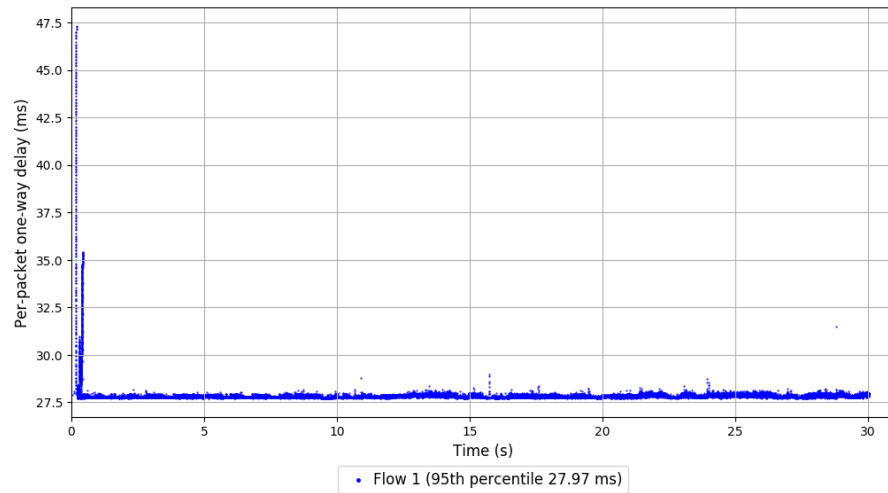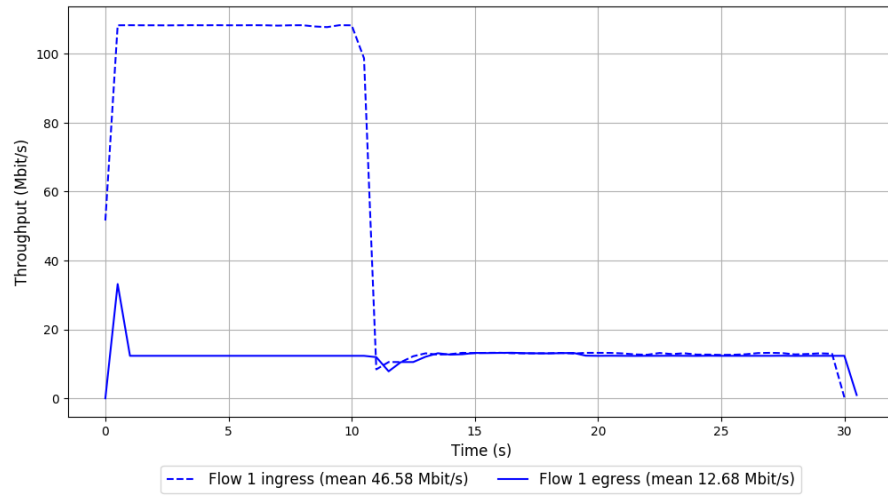

Flow 1 (95th percentile 26.29 ms)

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

Start at: 2019-02-05 03:09:21
End at: 2019-02-05 03:09:51
Local clock offset: 2.252 ms
Remote clock offset: -6.265 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 27.966 ms
Loss rate: 72.78%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 27.966 ms
Loss rate: 72.78%
```

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

Flow 1 ingress (mean 46.58 Mbit/s) --- Flow 1 egress (mean 12.68 Mbit/s)

• Flow 1 (95th percentile 27.97 ms)

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

Start at: 2019-02-05 03:33:36
End at: 2019-02-05 03:34:07
Local clock offset: 2.568 ms
Remote clock offset: -7.502 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 26.271 ms
Loss rate: 63.09%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 26.271 ms
Loss rate: 63.09%
```
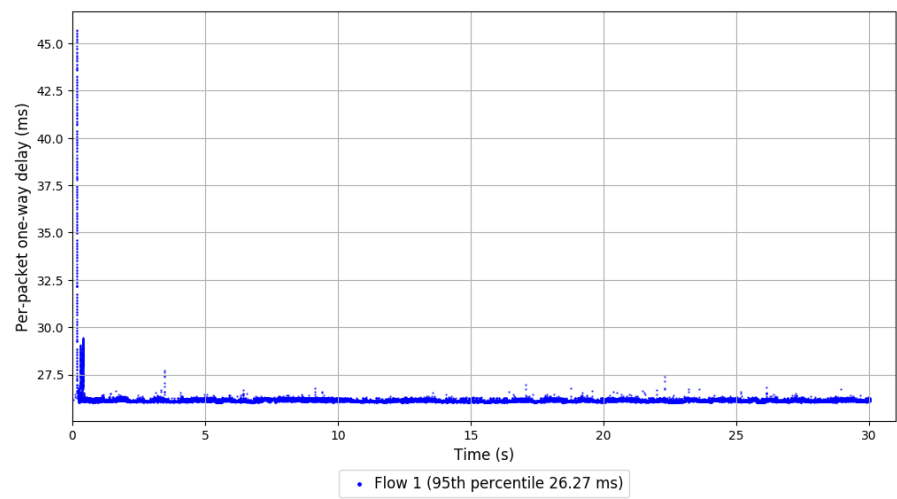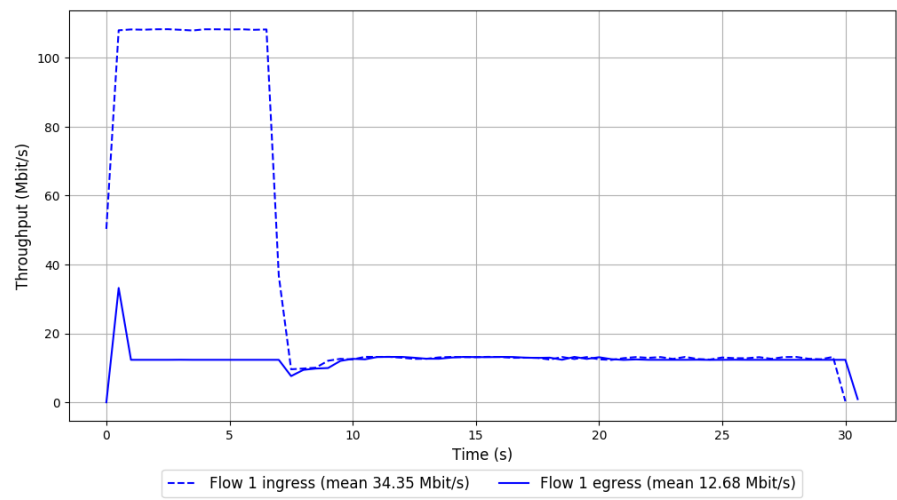
Run 3: Report of TaoVA-100x — Data Link

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

Start at: 2019-02-05 03:58:00
End at: 2019-02-05 03:58:30
Local clock offset: 5.631 ms
Remote clock offset: -6.962 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 26.657 ms
Loss rate: 80.88%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 26.657 ms
Loss rate: 80.88%
```
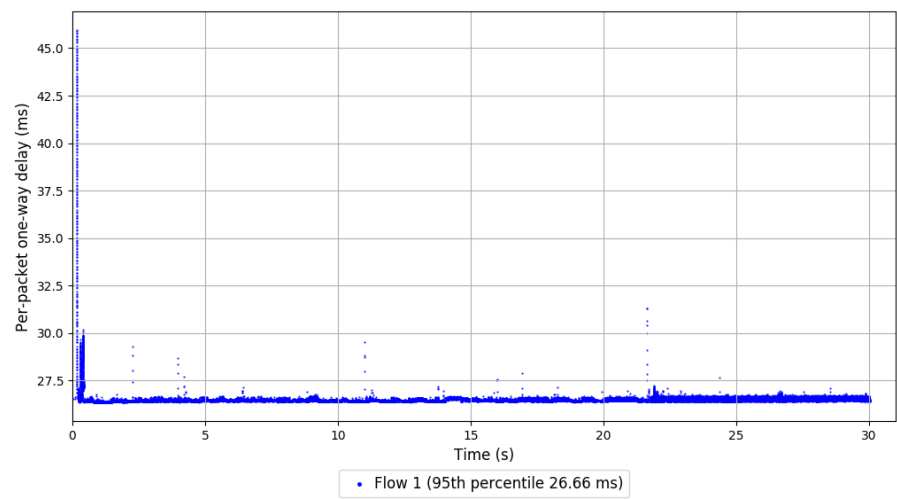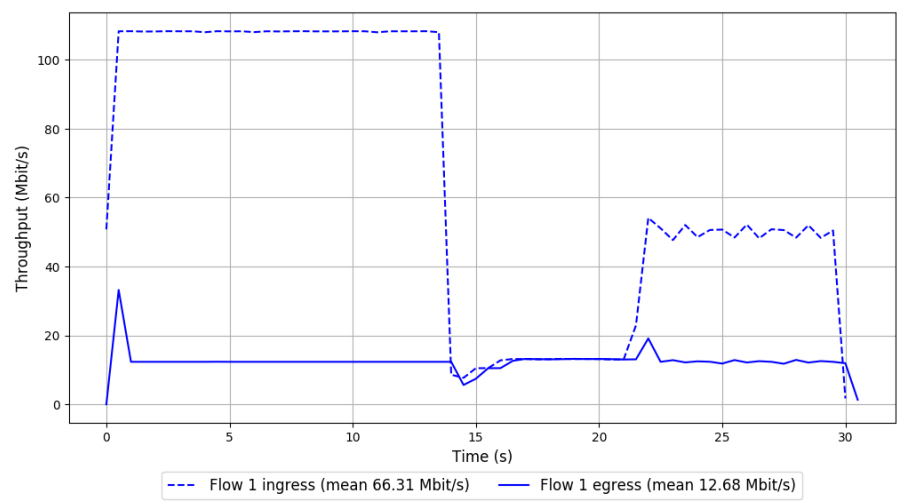
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 66.31 Mbit/s)   Flow 1 egress (mean 12.68 Mbit/s)

• Flow 1 (95th percentile 26.66 ms)

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

Start at: 2019-02-05 04:22:28
End at: 2019-02-05 04:22:58
Local clock offset: 5.253 ms
Remote clock offset: -4.879 ms


# Below is generated by plot.py at 2019-02-05 04:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.16 Mbit/s
95th percentile per-packet one-way delay: 28.342 ms
Loss rate: 78.14%
-- Flow 1:
Average throughput: 12.16 Mbit/s
95th percentile per-packet one-way delay: 28.342 ms
Loss rate: 78.14%
```
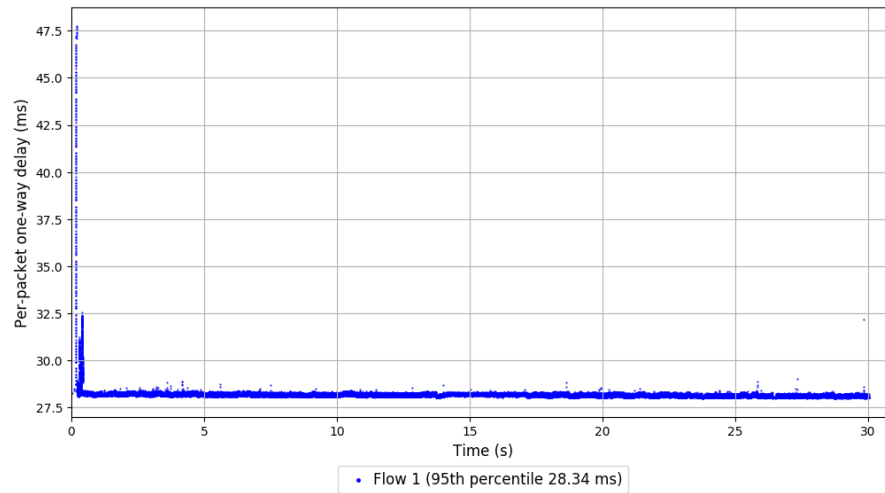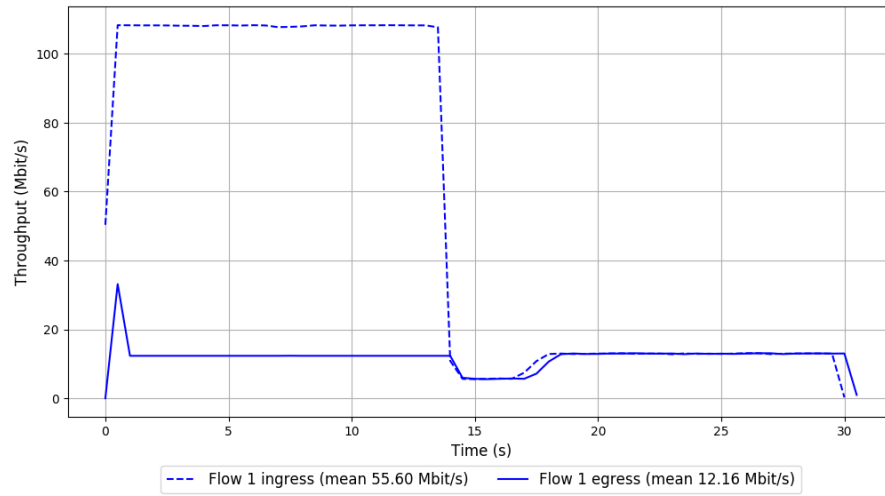
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 55.60 Mbit/s)　　Flow 1 egress (mean 12.16 Mbit/s)
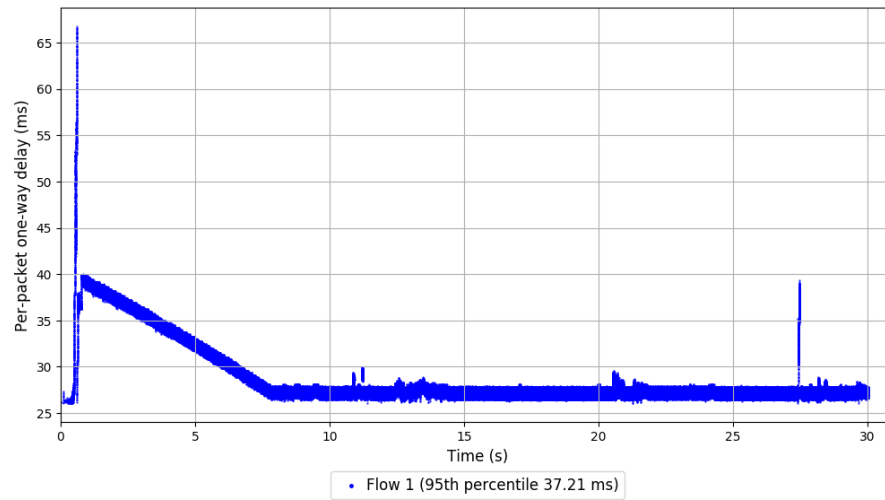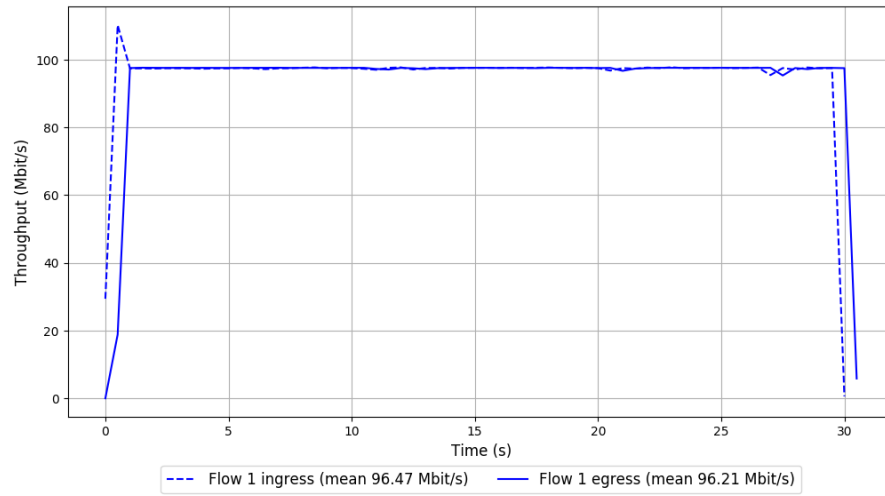

Flow 1 (95th percentile 28.34 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2019-02-05 02:38:47
End at: 2019-02-05 02:39:17
Local clock offset: 3.088 ms
Remote clock offset: -8.545 ms


# Below is generated by plot.py at 2019-02-05 04:36:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 37.211 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 37.211 ms
Loss rate: 0.27%
```

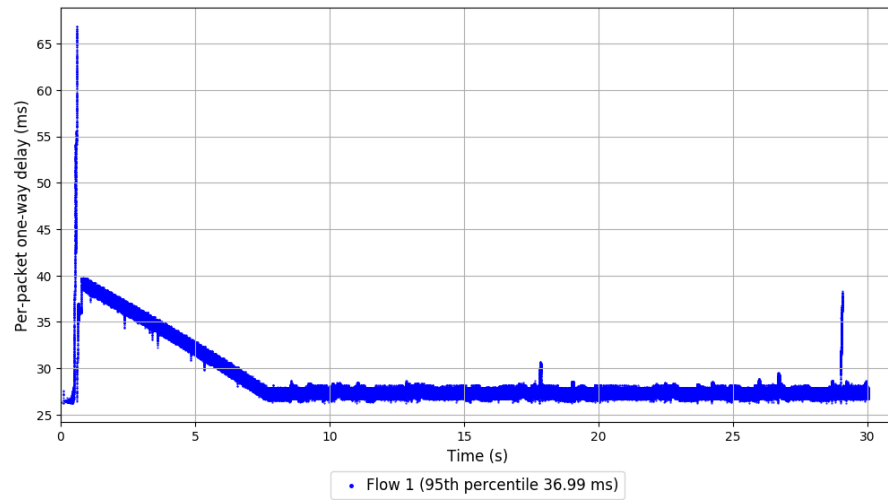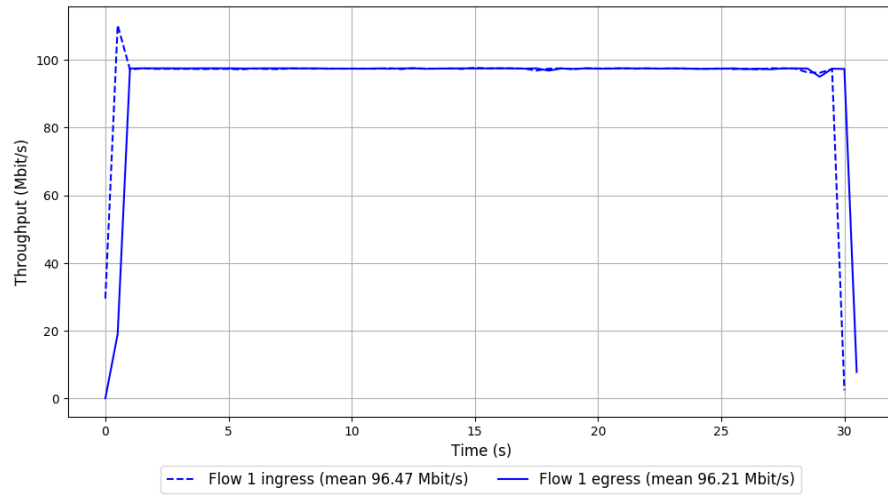Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2019-02-05 03:03:37
End at: 2019-02-05 03:04:07
Local clock offset: 2.242 ms
Remote clock offset: -7.794 ms


# Below is generated by plot.py at 2019-02-05 04:36:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 36.992 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 36.992 ms
Loss rate: 0.27%
```

Run 2: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 96.47 Mbit/s) ----   Flow 1 egress (mean 96.21 Mbit/s) ——
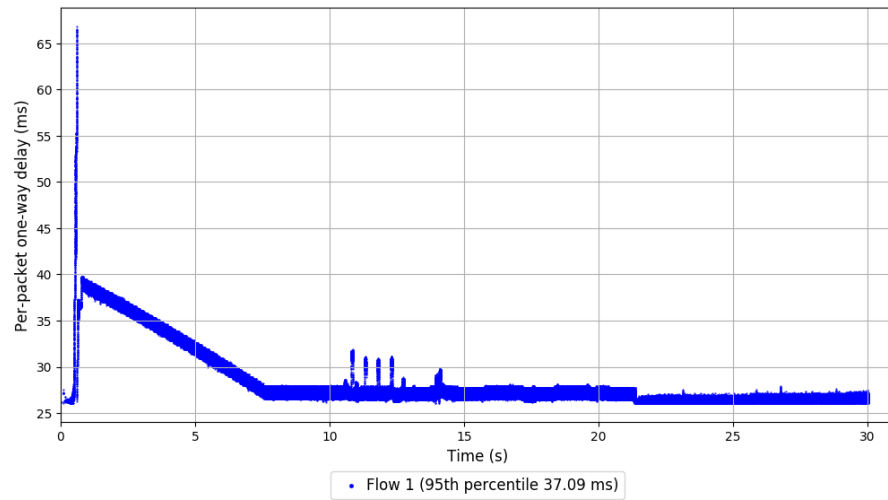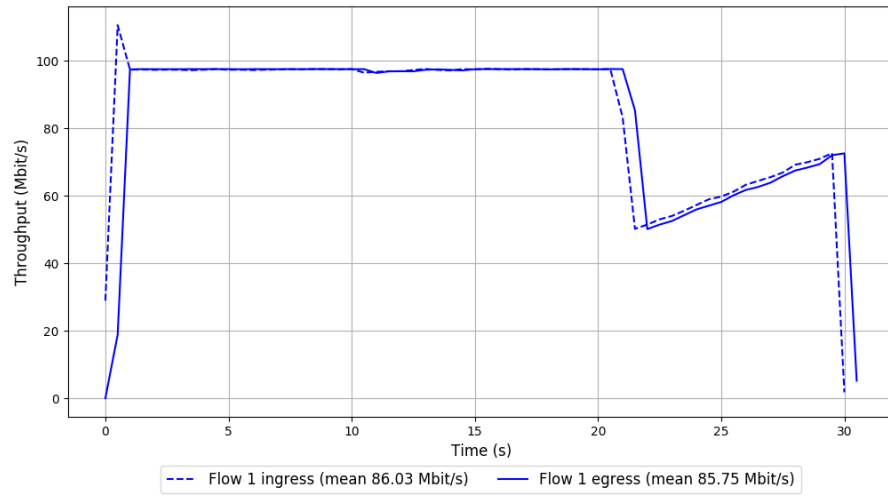

Flow 1 (95th percentile 36.99 ms)

```
Run 3: Statistics of TCP Vegas

Start at: 2019-02-05 03:27:53
End at: 2019-02-05 03:28:23
Local clock offset: 2.48 ms
Remote clock offset: -7.509 ms


# Below is generated by plot.py at 2019-02-05 04:36:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.75 Mbit/s
95th percentile per-packet one-way delay: 37.085 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 85.75 Mbit/s
95th percentile per-packet one-way delay: 37.085 ms
Loss rate: 0.31%
```

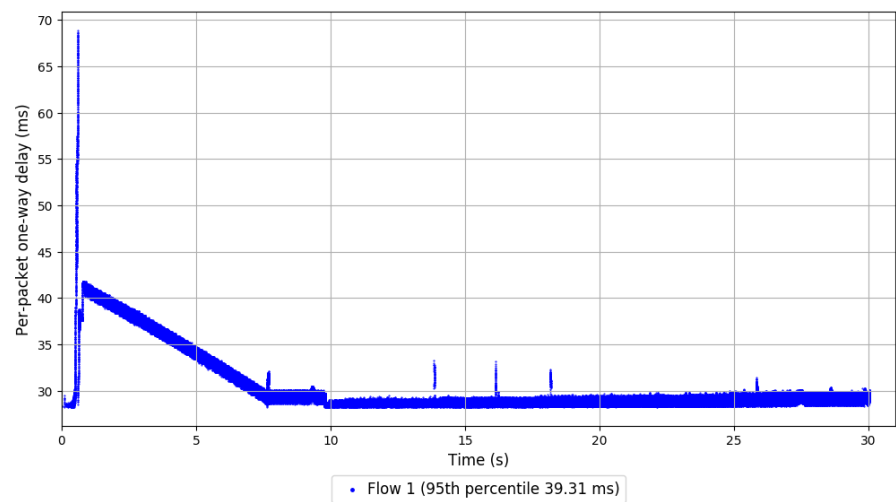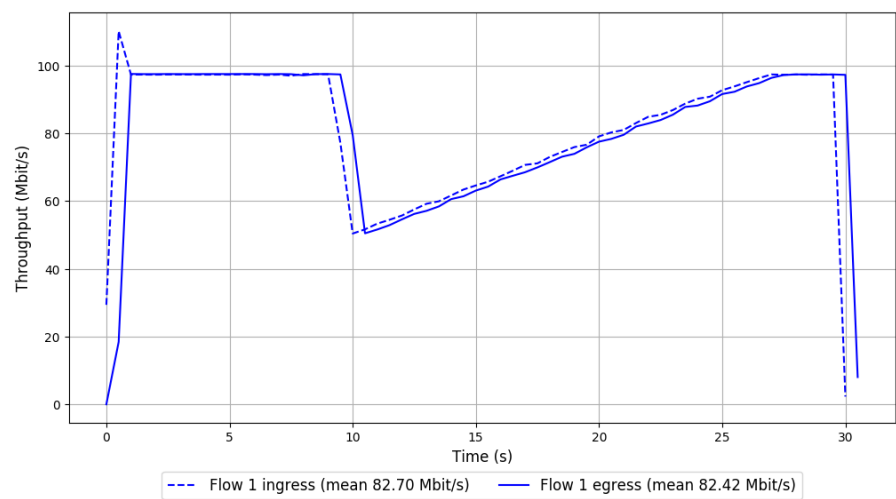# Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2019-02-05 03:52:05
End at: 2019-02-05 03:52:35
Local clock offset: 4.593 ms
Remote clock offset: -5.176 ms


# Below is generated by plot.py at 2019-02-05 04:36:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.42 Mbit/s
95th percentile per-packet one-way delay: 39.315 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 82.42 Mbit/s
95th percentile per-packet one-way delay: 39.315 ms
Loss rate: 0.32%
```

Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 82.70 Mbit/s)   Flow 1 egress (mean 82.42 Mbit/s)
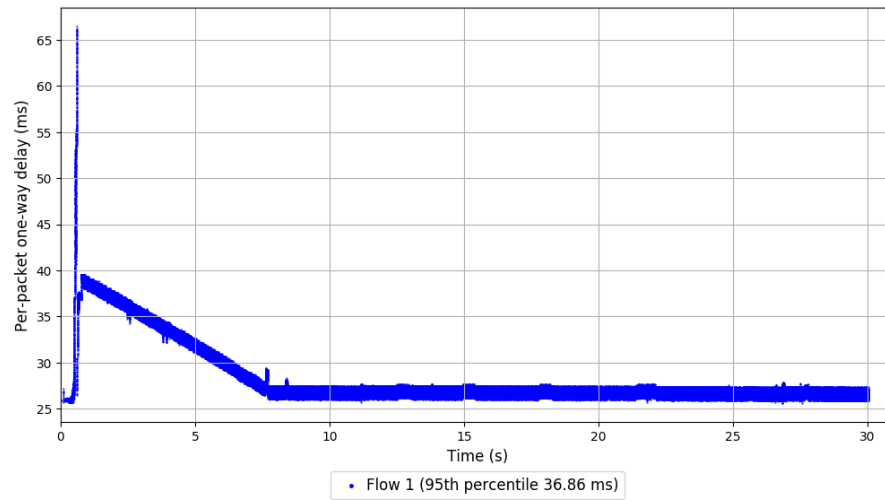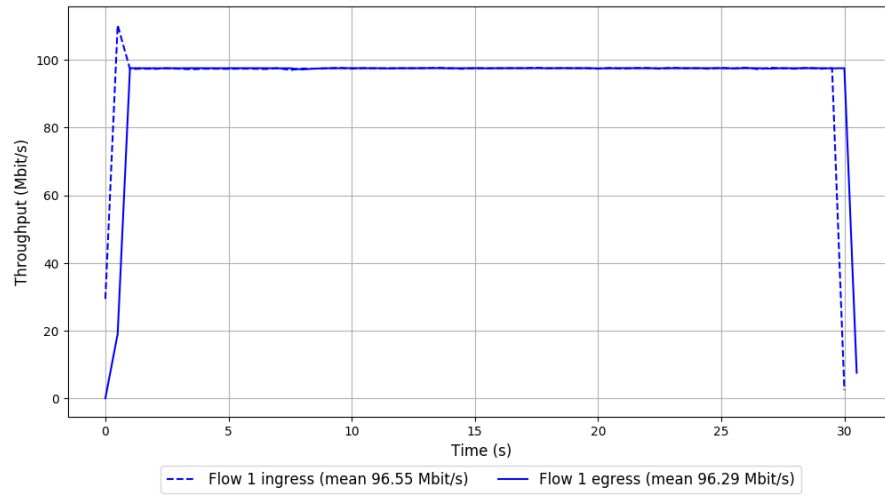

Flow 1 (95th percentile 39.31 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2019-02-05 04:16:41
End at: 2019-02-05 04:17:12
Local clock offset: 7.058 ms
Remote clock offset: -7.257 ms


# Below is generated by plot.py at 2019-02-05 04:36:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.29 Mbit/s
95th percentile per-packet one-way delay: 36.864 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.29 Mbit/s
95th percentile per-packet one-way delay: 36.864 ms
Loss rate: 0.27%
```

Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 96.55 Mbit/s)   Flow 1 egress (mean 96.29 Mbit/s)
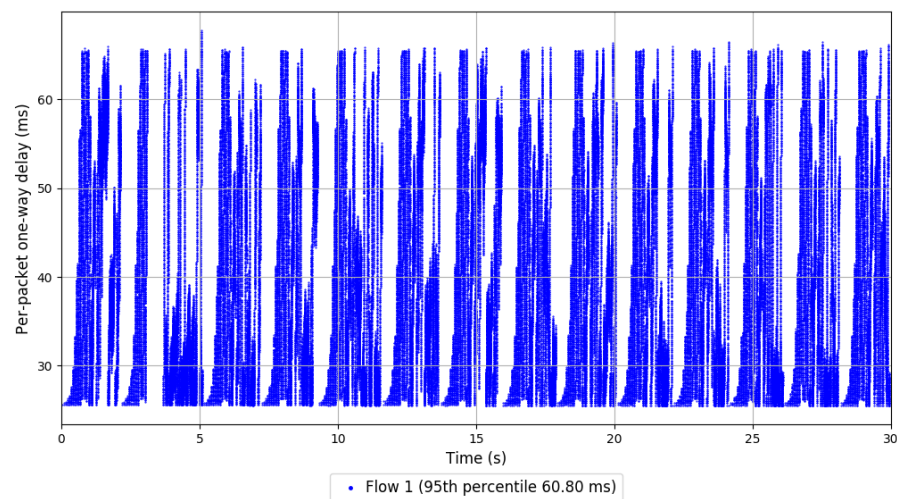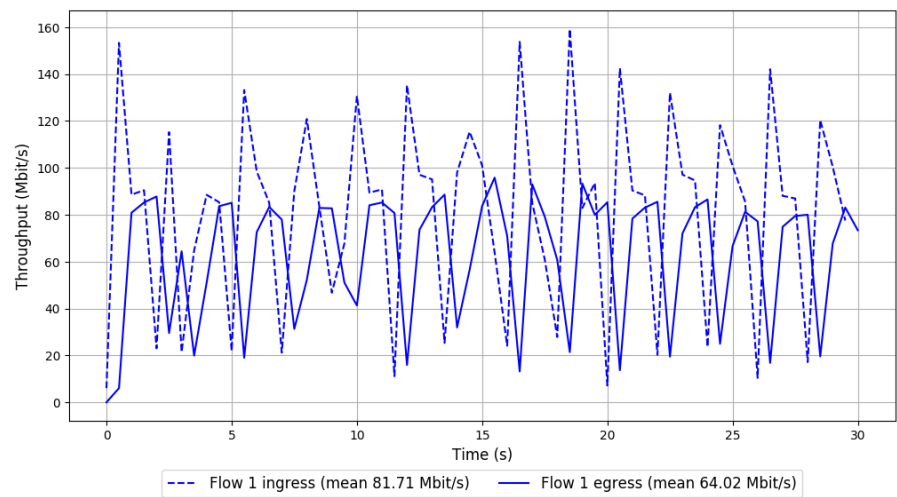

Flow 1 (95th percentile 36.86 ms)

```
Run 1: Statistics of Verus

Start at: 2019-02-05 02:27:09
End at: 2019-02-05 02:27:39
Local clock offset: 4.111 ms
Remote clock offset: -9.168 ms


# Below is generated by plot.py at 2019-02-05 04:36:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.02 Mbit/s
95th percentile per-packet one-way delay: 60.796 ms
Loss rate: 21.64%
-- Flow 1:
Average throughput: 64.02 Mbit/s
95th percentile per-packet one-way delay: 60.796 ms
Loss rate: 21.64%
```
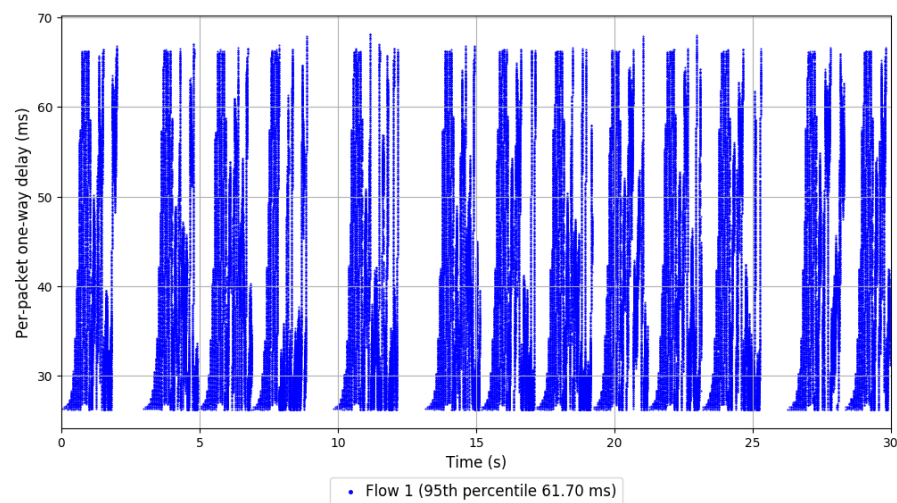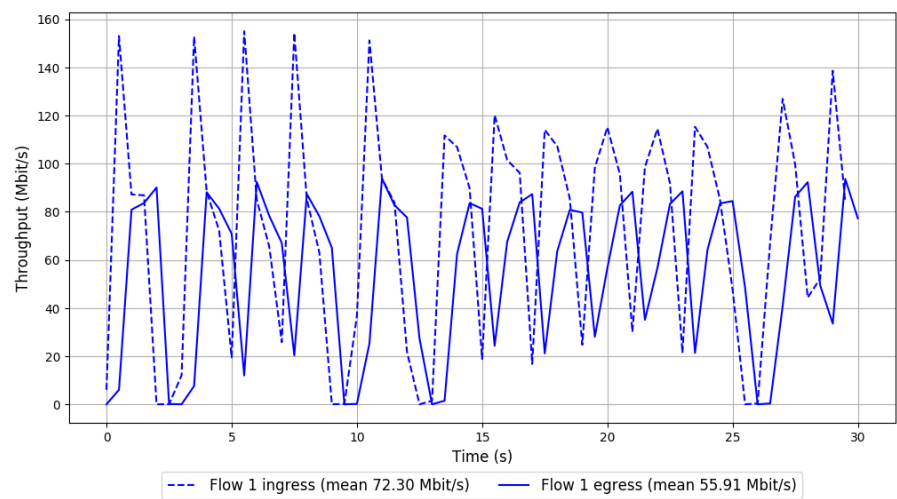
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2019-02-05 02:51:47
End at: 2019-02-05 02:52:17
Local clock offset: 2.563 ms
Remote clock offset: -8.091 ms


# Below is generated by plot.py at 2019-02-05 04:36:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.91 Mbit/s
95th percentile per-packet one-way delay: 61.697 ms
Loss rate: 22.65%
-- Flow 1:
Average throughput: 55.91 Mbit/s
95th percentile per-packet one-way delay: 61.697 ms
Loss rate: 22.65%
```

Run 2: Report of Verus — Data Link

Flow 1 ingress (mean 72.30 Mbit/s)   Flow 1 egress (mean 55.91 Mbit/s)
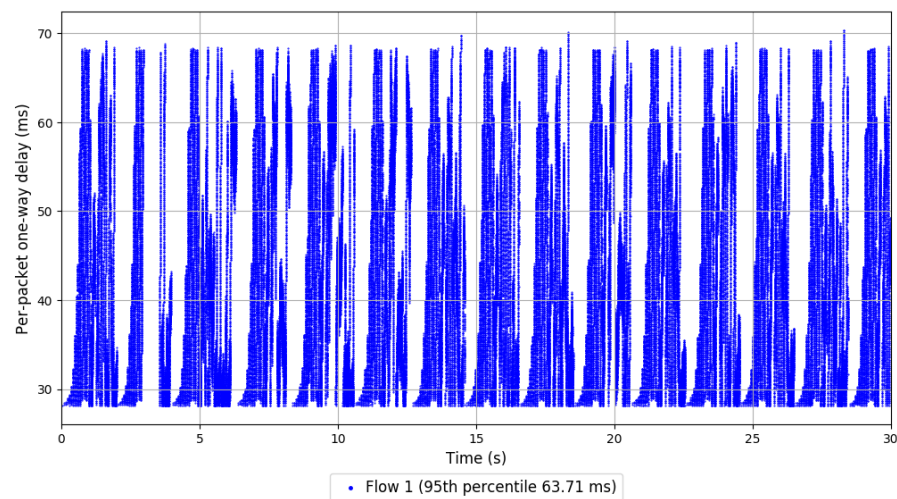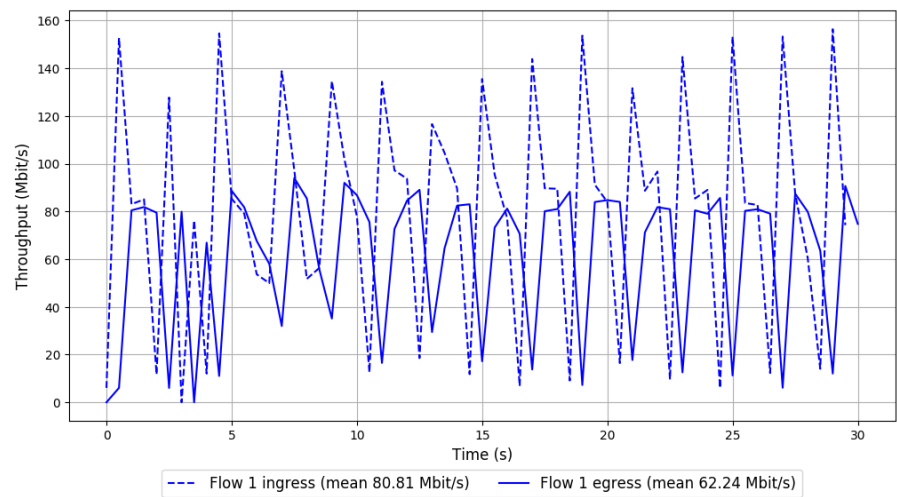

Flow 1 (95th percentile 61.70 ms)

```
Run 3: Statistics of Verus

Start at: 2019-02-05 03:16:12
End at: 2019-02-05 03:16:42
Local clock offset: 2.328 ms
Remote clock offset: -5.718 ms


# Below is generated by plot.py at 2019-02-05 04:36:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.24 Mbit/s
95th percentile per-packet one-way delay: 63.706 ms
Loss rate: 22.93%
-- Flow 1:
Average throughput: 62.24 Mbit/s
95th percentile per-packet one-way delay: 63.706 ms
Loss rate: 22.93%
```

Run 3: Report of Verus — Data Link

Flow 1 ingress (mean 80.81 Mbit/s) --- Flow 1 egress (mean 62.24 Mbit/s)
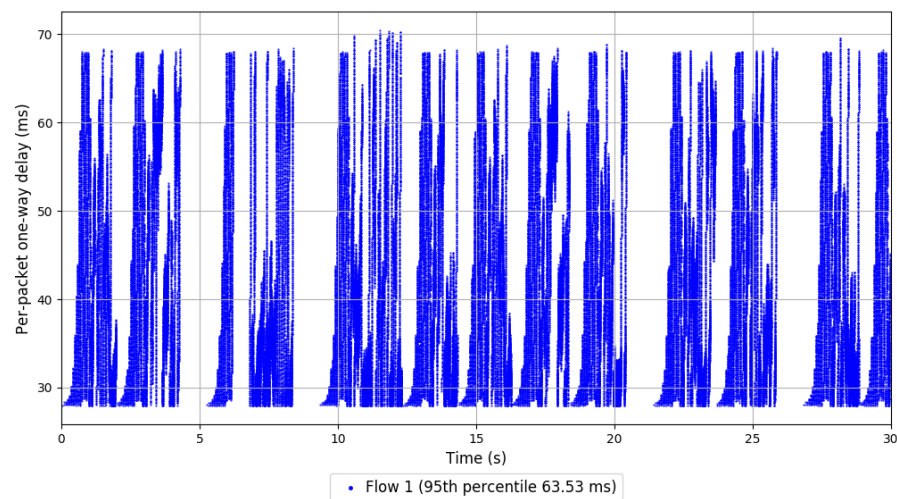
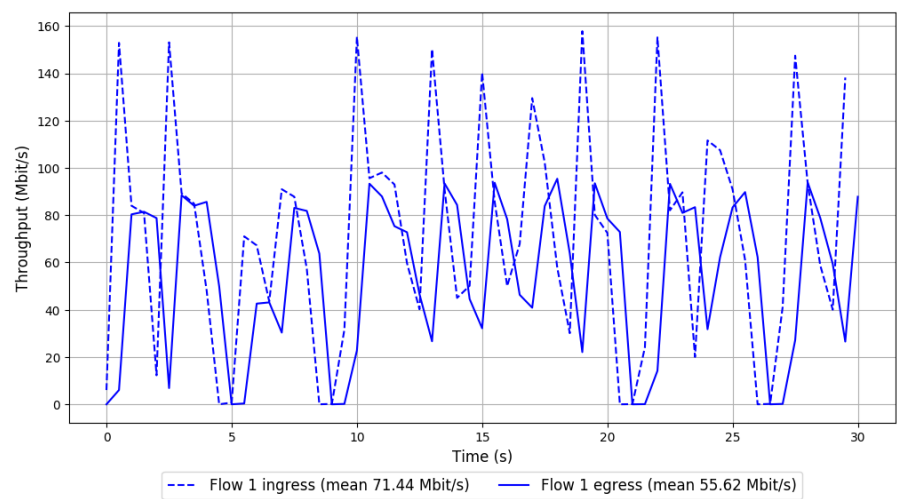

• Flow 1 (95th percentile 63.71 ms)

```
Run 4: Statistics of Verus

Start at: 2019-02-05 03:40:27
End at: 2019-02-05 03:40:57
Local clock offset: 2.642 ms
Remote clock offset: -5.504 ms


# Below is generated by plot.py at 2019-02-05 04:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.62 Mbit/s
95th percentile per-packet one-way delay: 63.526 ms
Loss rate: 22.10%
-- Flow 1:
Average throughput: 55.62 Mbit/s
95th percentile per-packet one-way delay: 63.526 ms
Loss rate: 22.10%
```

Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2019-02-05 04:04:54
End at: 2019-02-05 04:05:24
Local clock offset: 6.428 ms
Remote clock offset: -7.21 ms


# Below is generated by plot.py at 2019-02-05 04:37:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.70 Mbit/s
95th percentile per-packet one-way delay: 61.254 ms
Loss rate: 21.97%
-- Flow 1:
Average throughput: 57.70 Mbit/s
95th percentile per-packet one-way delay: 61.254 ms
Loss rate: 21.97%
```
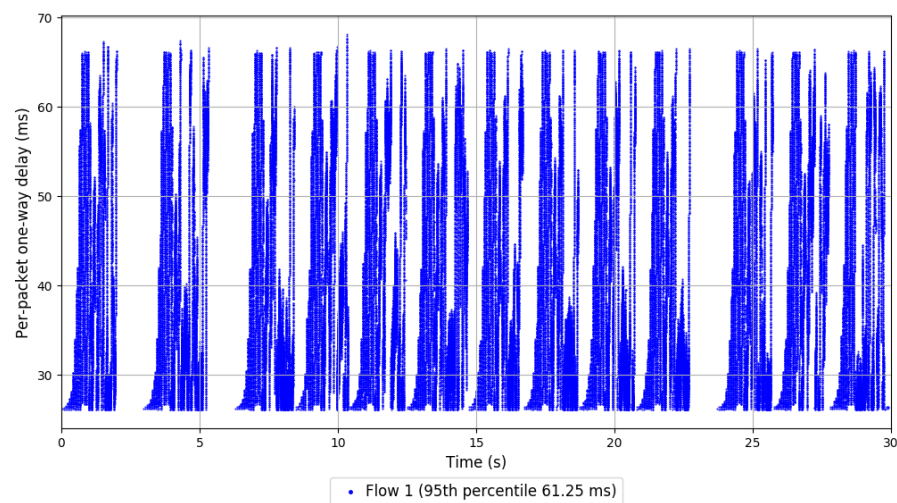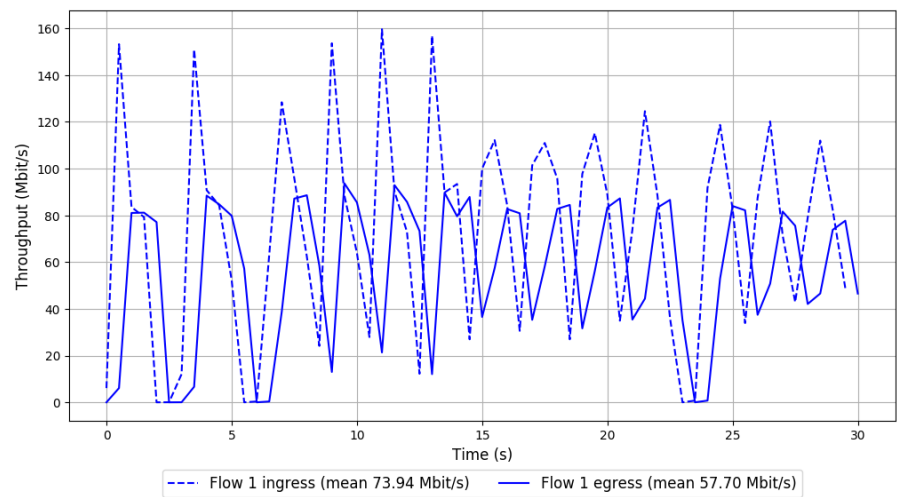
Run 5: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2019-02-05 02:36:24
End at: 2019-02-05 02:36:54
Local clock offset: 3.183 ms
Remote clock offset: -7.013 ms


# Below is generated by plot.py at 2019-02-05 04:37:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.26 Mbit/s
95th percentile per-packet one-way delay: 28.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.26 Mbit/s
95th percentile per-packet one-way delay: 28.978 ms
Loss rate: 0.00%
```
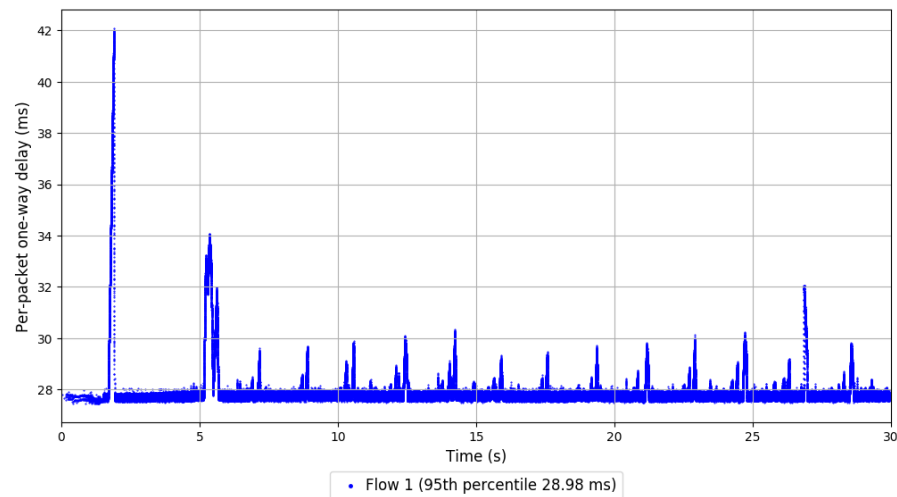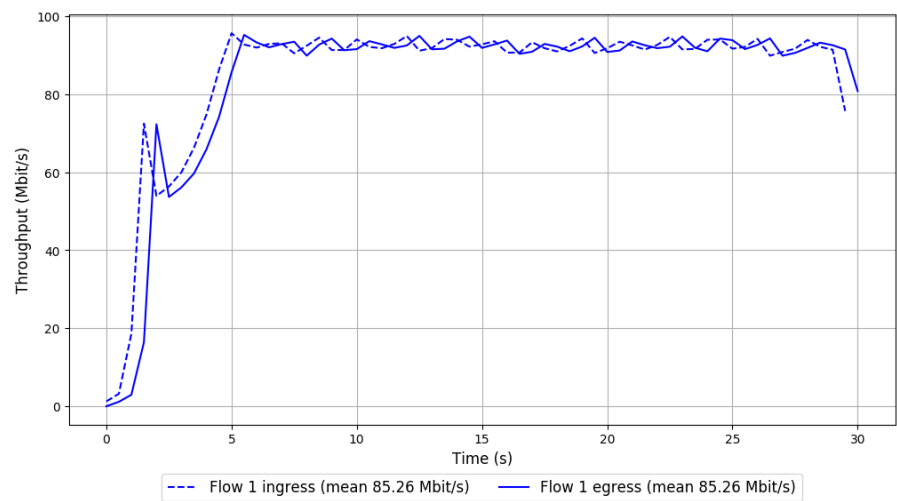
Run 1: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 85.26 Mbit/s) --- Flow 1 egress (mean 85.26 Mbit/s)

Flow 1 (95th percentile 28.98 ms)

```
Run 2: Statistics of PCC-Vivace

Start at: 2019-02-05 03:01:13
End at: 2019-02-05 03:01:43
Local clock offset: 2.268 ms
Remote clock offset: -6.249 ms


# Below is generated by plot.py at 2019-02-05 04:37:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.65 Mbit/s
95th percentile per-packet one-way delay: 30.676 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 84.65 Mbit/s
95th percentile per-packet one-way delay: 30.676 ms
Loss rate: 0.02%
```
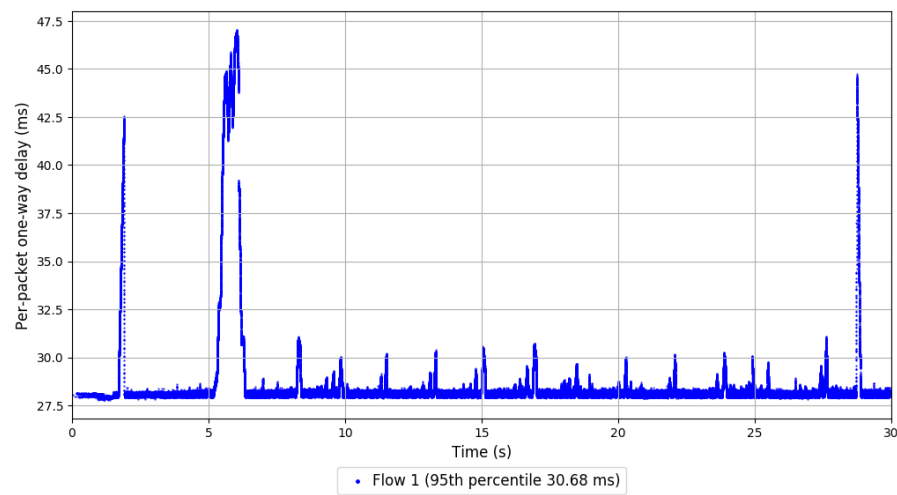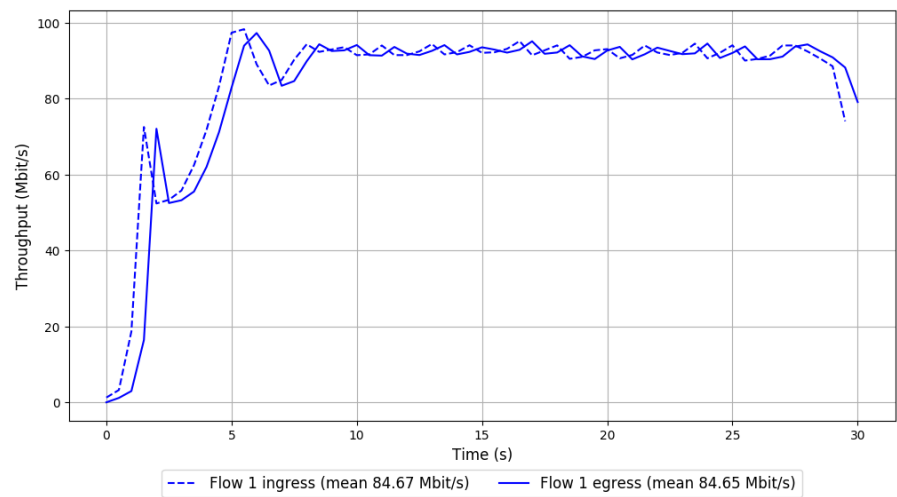
Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2019-02-05 03:25:29
End at: 2019-02-05 03:25:59
Local clock offset: 2.441 ms
Remote clock offset: -5.0 ms


# Below is generated by plot.py at 2019-02-05 04:37:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.79 Mbit/s
95th percentile per-packet one-way delay: 31.043 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.79 Mbit/s
95th percentile per-packet one-way delay: 31.043 ms
Loss rate: 0.00%
```
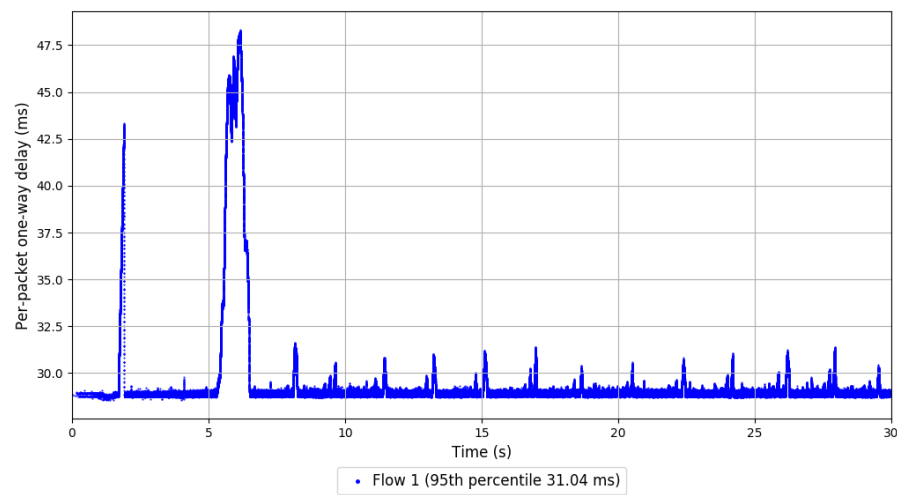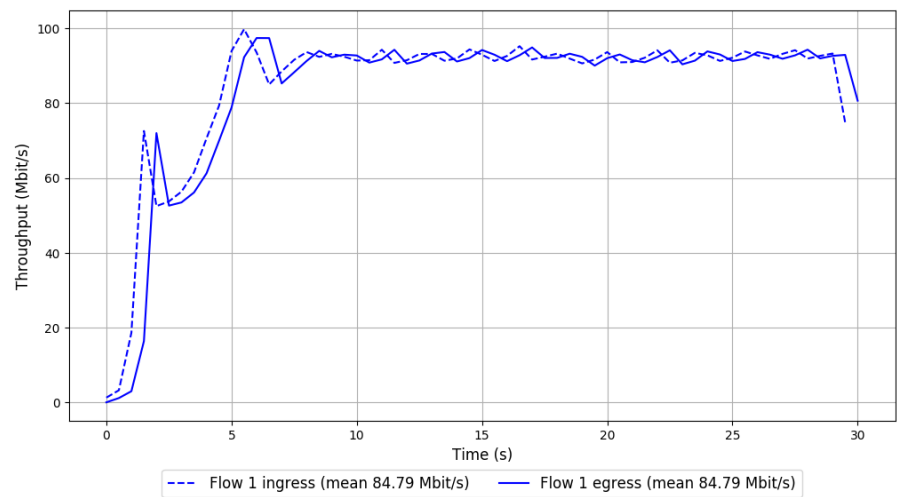
Run 3: Report of PCC-Vivace — Data Link

```
Run 4: Statistics of PCC-Vivace

Start at: 2019-02-05 03:49:42
End at: 2019-02-05 03:50:12
Local clock offset: 3.984 ms
Remote clock offset: -7.409 ms


# Below is generated by plot.py at 2019-02-05 04:37:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.77 Mbit/s
95th percentile per-packet one-way delay: 27.364 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 84.77 Mbit/s
95th percentile per-packet one-way delay: 27.364 ms
Loss rate: 0.02%
```
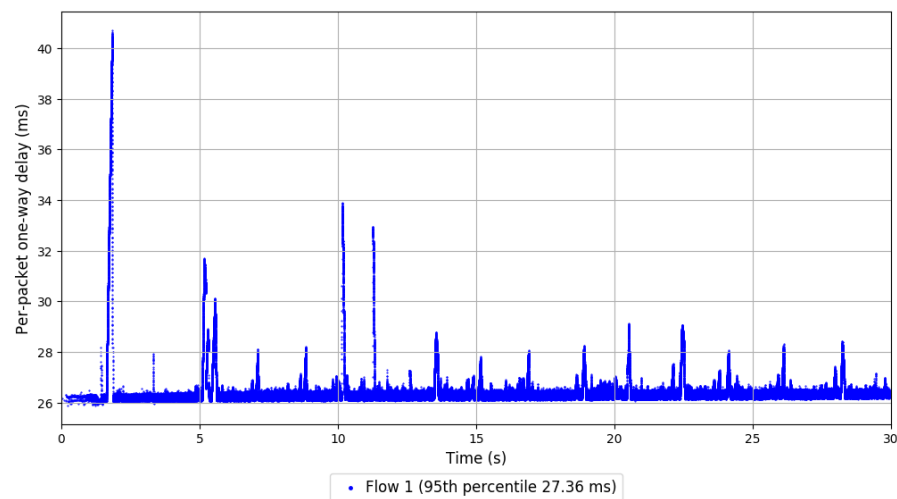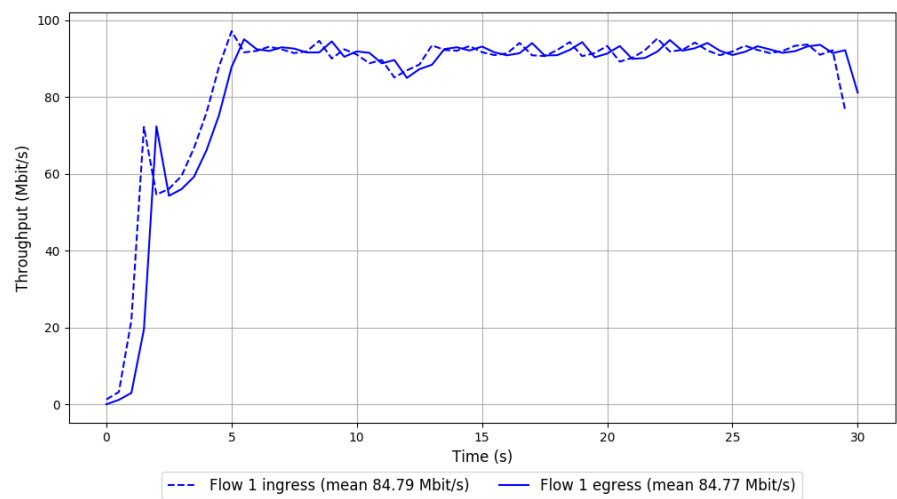
Run 4: Report of PCC-Vivace — Data Link

```
Run 5: Statistics of PCC-Vivace

Start at: 2019-02-05 04:14:12
End at: 2019-02-05 04:14:42
Local clock offset: 7.177 ms
Remote clock offset: -7.311 ms


# Below is generated by plot.py at 2019-02-05 04:37:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.69 Mbit/s
95th percentile per-packet one-way delay: 30.476 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.69 Mbit/s
95th percentile per-packet one-way delay: 30.476 ms
Loss rate: 0.00%
```
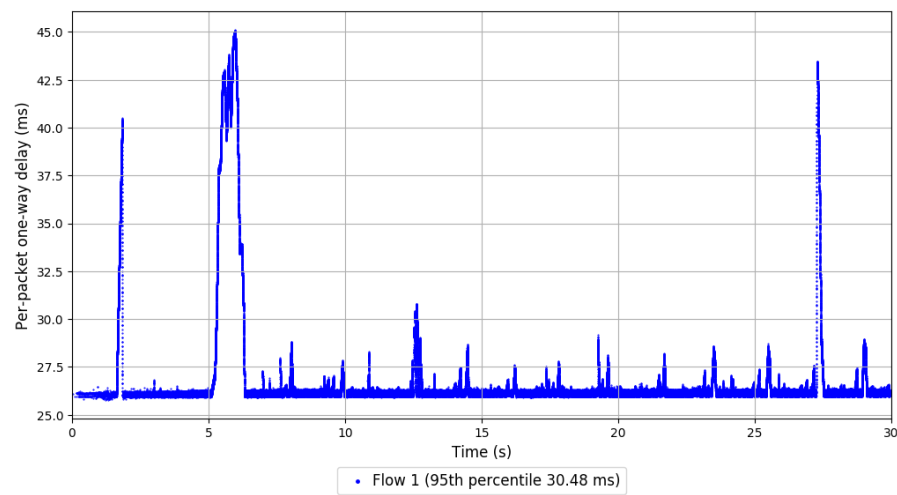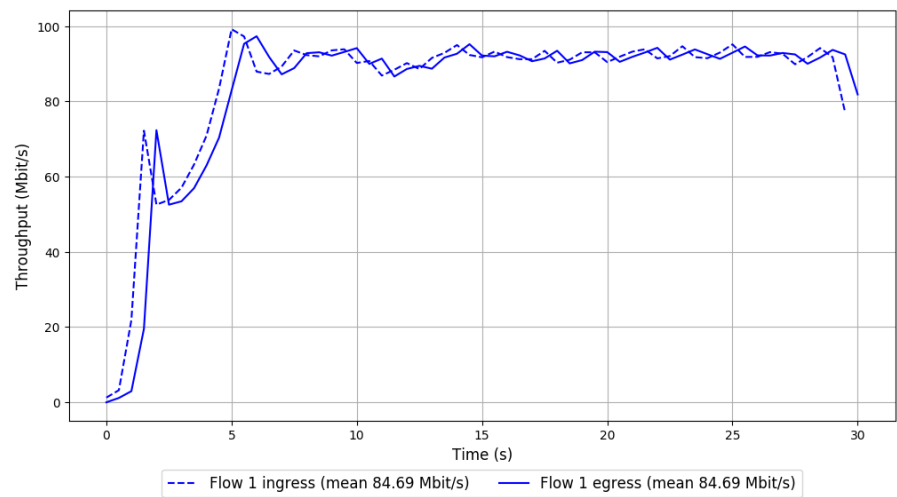
Run 5: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 84.69 Mbit/s)   Flow 1 egress (mean 84.69 Mbit/s)
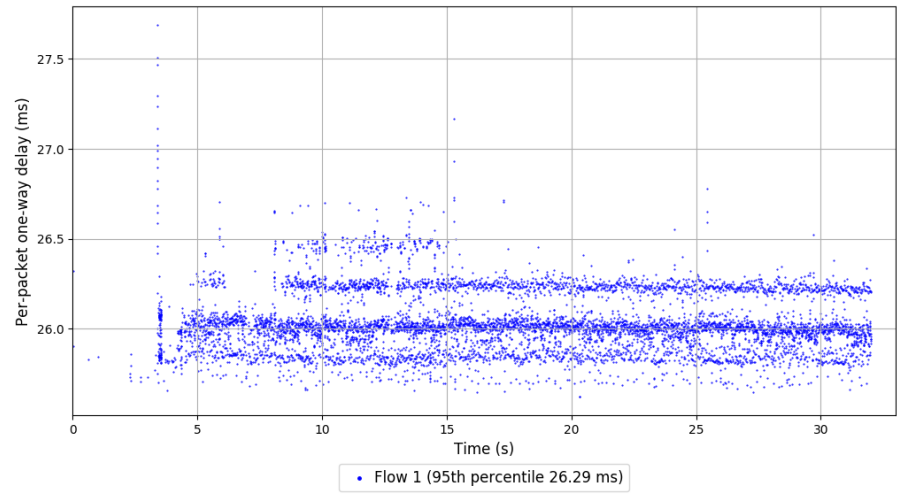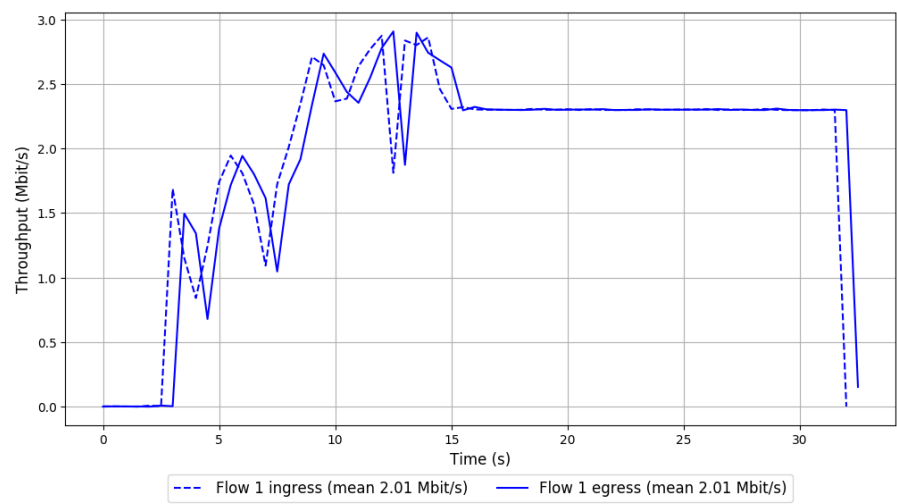

Flow 1 (95th percentile 30.48 ms)

```
Run 1: Statistics of WebRTC media

Start at: 2019-02-05 02:31:49
End at: 2019-02-05 02:32:19
Local clock offset: 3.451 ms
Remote clock offset: -8.878 ms


# Below is generated by plot.py at 2019-02-05 04:37:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 26.290 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 26.290 ms
Loss rate: 0.00%
```

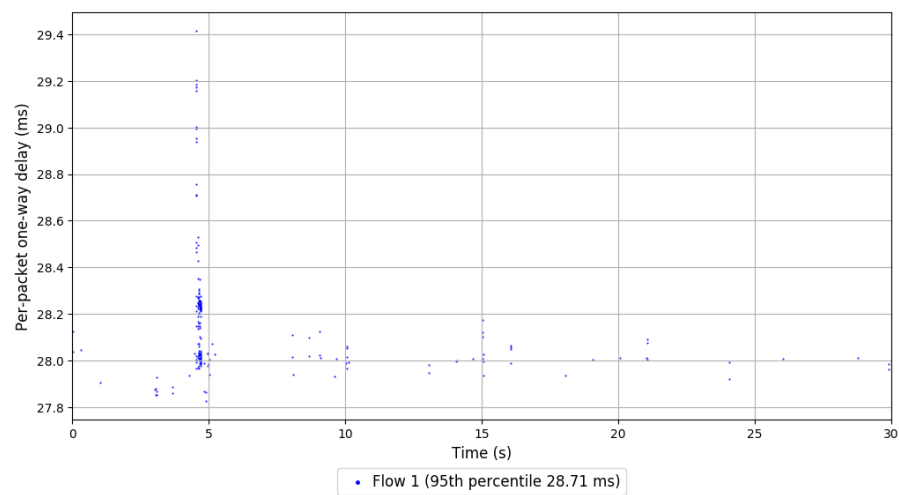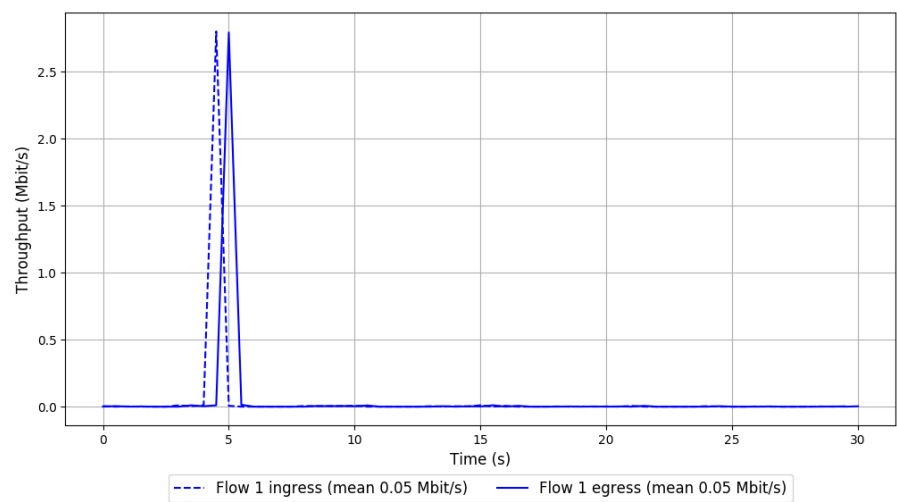Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2019-02-05 02:56:35
End at: 2019-02-05 02:57:05
Local clock offset: 2.355 ms
Remote clock offset: -6.308 ms


# Below is generated by plot.py at 2019-02-05 04:37:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 28.712 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 28.712 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

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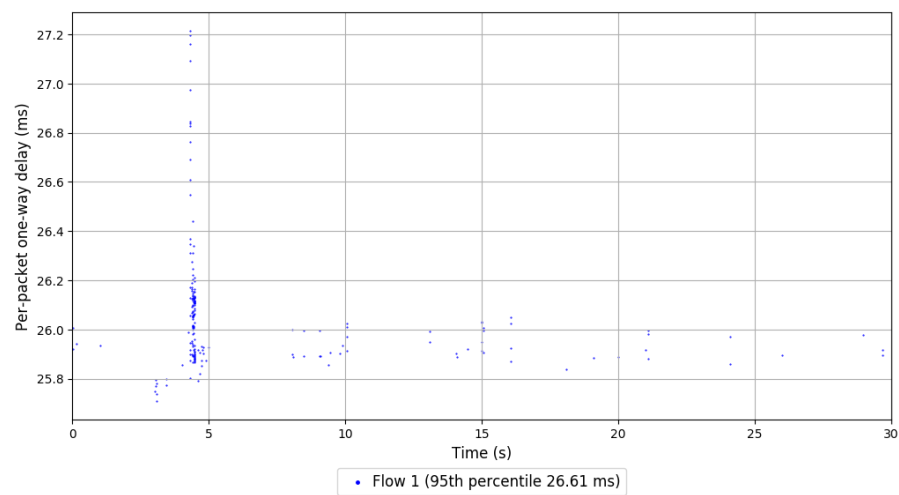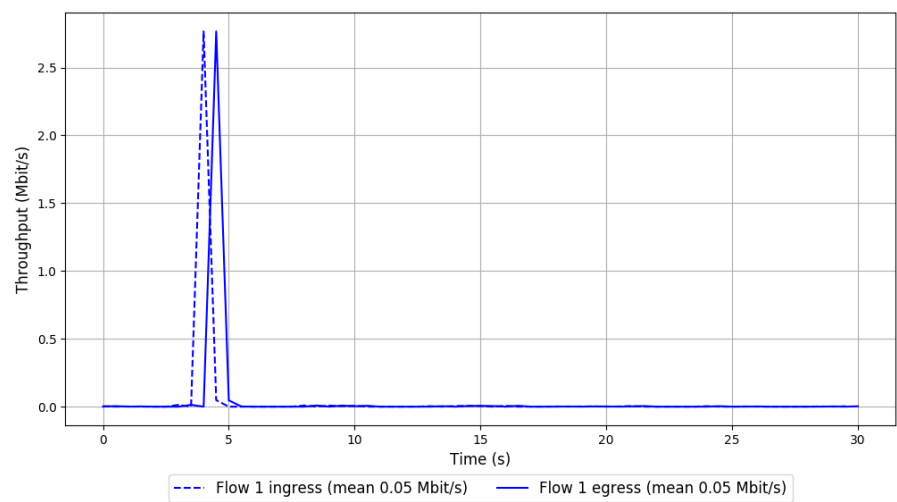

Flow 1 (95th percentile 28.71 ms)

```
Run 3: Statistics of WebRTC media

Start at: 2019-02-05 03:20:53
End at: 2019-02-05 03:21:23
Local clock offset: 2.378 ms
Remote clock offset: -7.883 ms


# Below is generated by plot.py at 2019-02-05 04:37:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 26.609 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 26.609 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

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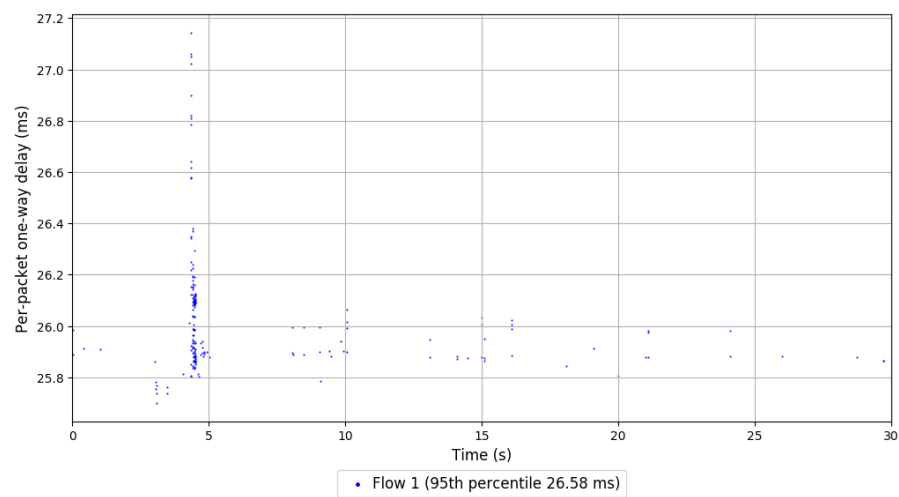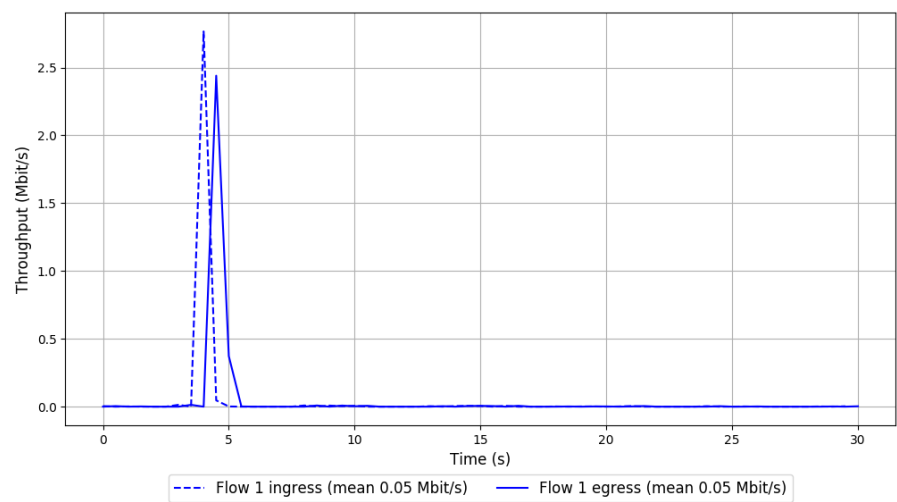

Flow 1 (95th percentile 26.61 ms)

```
Run 4: Statistics of WebRTC media

Start at: 2019-02-05 03:45:06
End at: 2019-02-05 03:45:36
Local clock offset: 2.746 ms
Remote clock offset: -7.511 ms


# Below is generated by plot.py at 2019-02-05 04:37:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 26.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 26.579 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2019-02-05 04:09:35
End at: 2019-02-05 04:10:05
Local clock offset: 6.864 ms
Remote clock offset: -7.636 ms


# Below is generated by plot.py at 2019-02-05 04:37:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 26.408 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 26.408 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link