Pantheon Report

Generated at 2019-06-27 04:42:36 (UTC).

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

Repeated the test of 22 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.
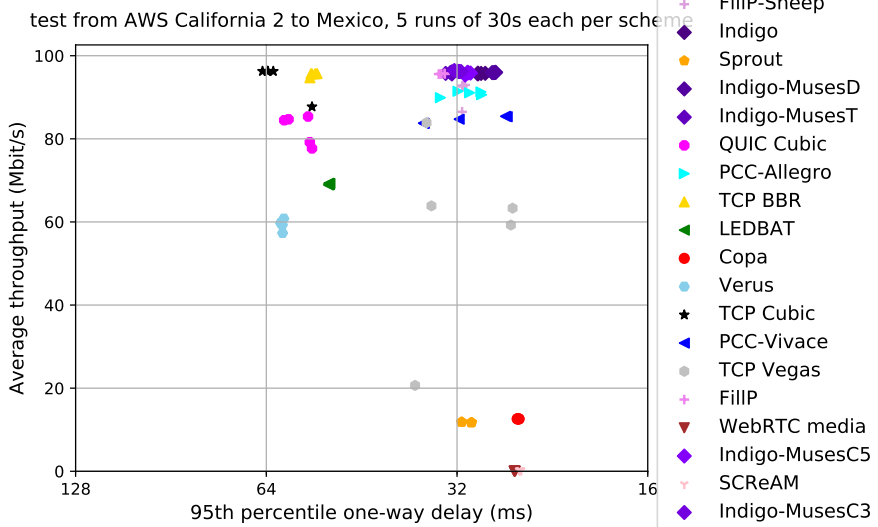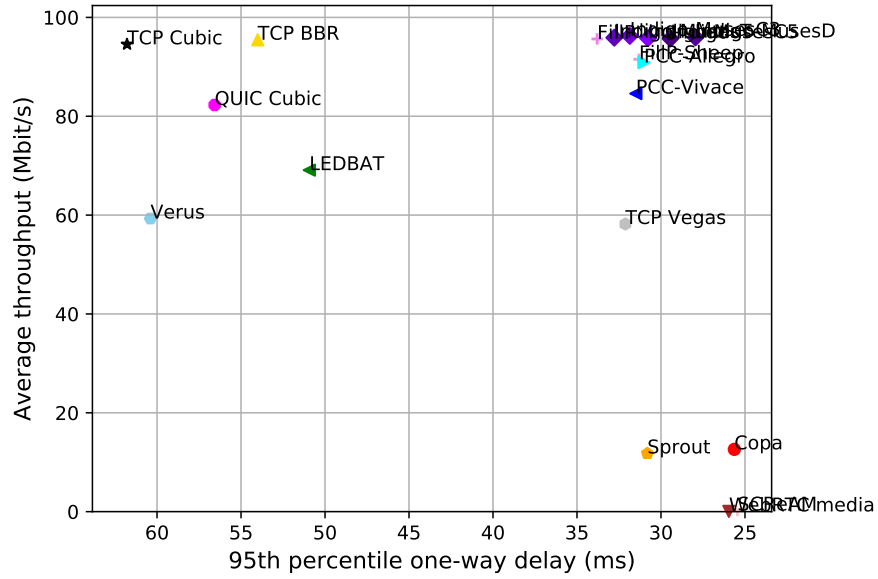
```
System info:
Linux 4.15.0-1039-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
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
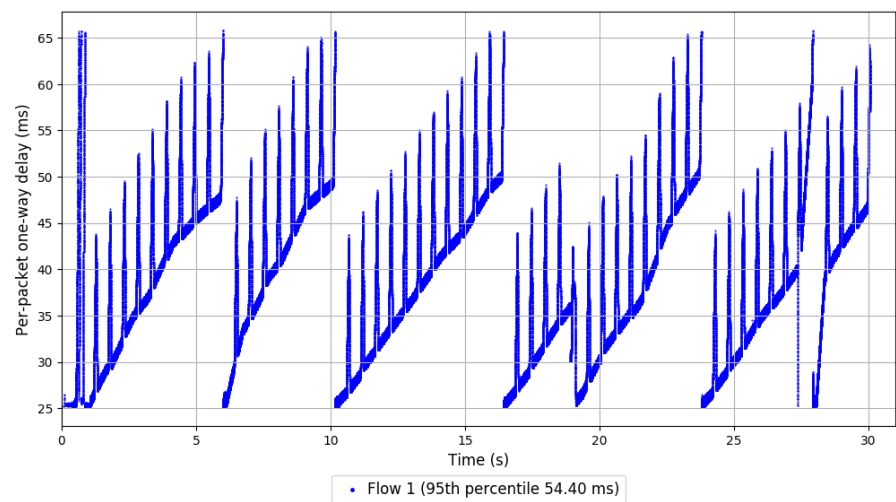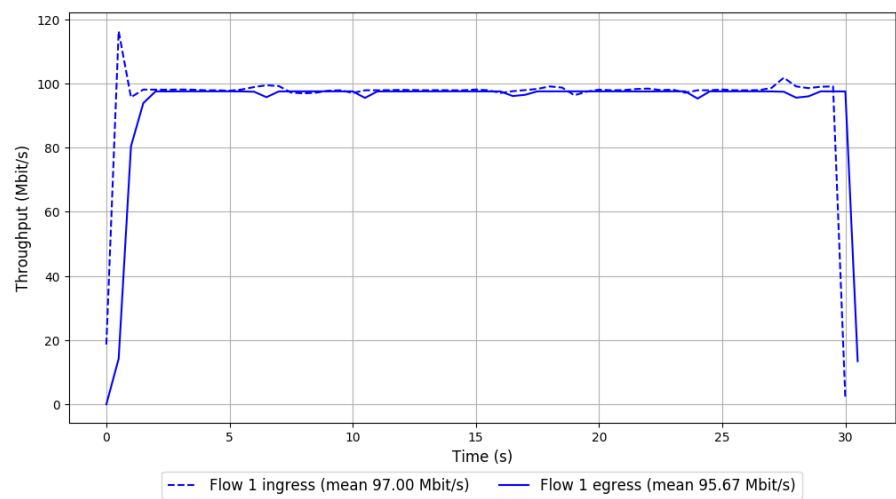(mean of all runs by scheme)

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	95.48	54.01	1.11
Copa	5	12.61	25.63	70.23
TCP Cubic	5	94.55	61.79	0.61
FillP	5	95.64	33.80	0.64
FillP-Sheep	5	91.52	31.31	1.03
Indigo	5	95.73	29.44	0.01
Indigo-MusesC3	5	96.26	31.86	0.04
Indigo-MusesC5	5	95.80	30.78	0.00
Indigo-MusesD	5	95.96	27.95	0.00
Indigo-MusesT	5	95.90	32.78	0.80
LEDBAT	5	69.10	50.94	0.00
Muses_DecisionTree	0	N/A	N/A	N/A
PCC-Allegro	5	90.87	31.01	0.72
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	82.28	56.57	1.08
SCReAM	5	0.21	25.45	0.00
Sprout	5	11.78	30.81	0.02
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	58.20	32.12	0.84
Verus	5	59.30	60.39	23.79
PCC-Vivace	5	84.59	31.49	0.00
WebRTC media	5	0.05	25.96	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2019-06-27 02:33:01
End at: 2019-06-27 02:33:31
Local clock offset: -0.605 ms
Remote clock offset: -3.798 ms


# Below is generated by plot.py at 2019-06-27 04:32:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 54.397 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 54.397 ms
Loss rate: 1.26%
```
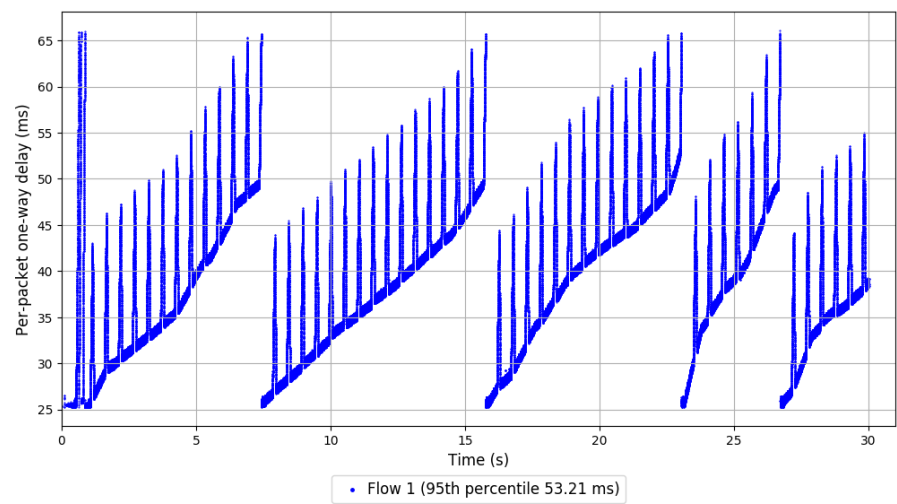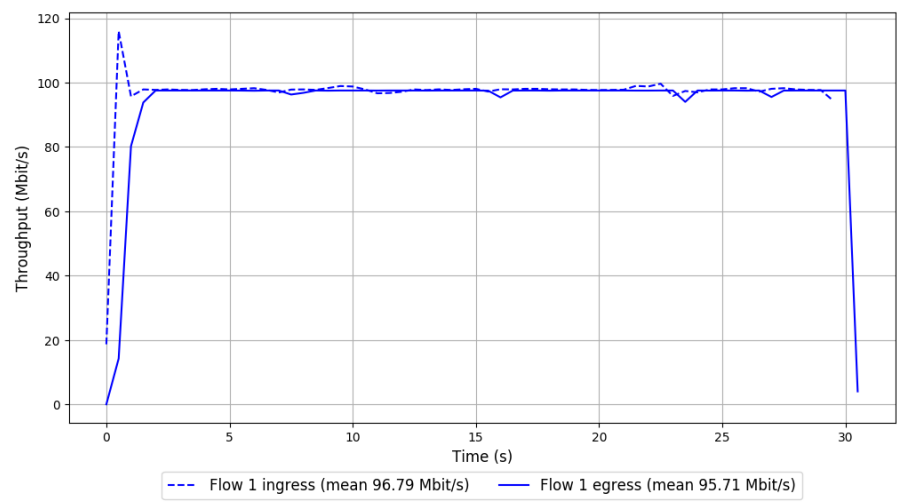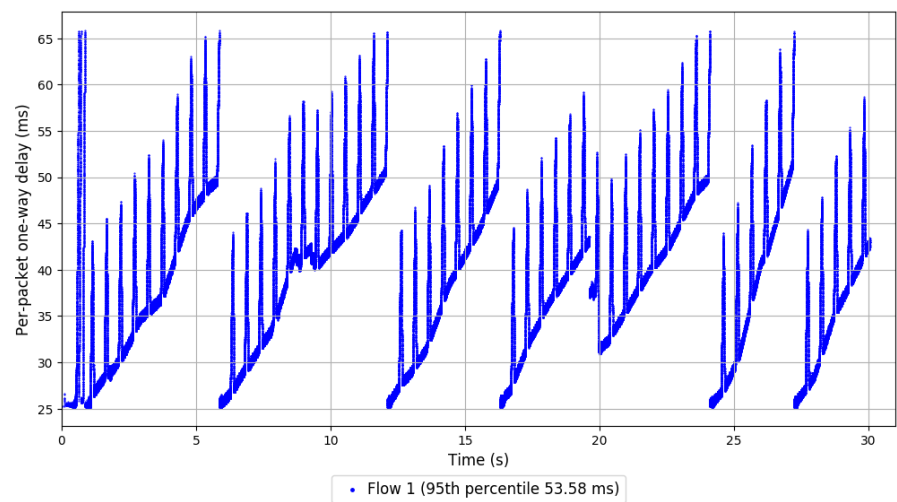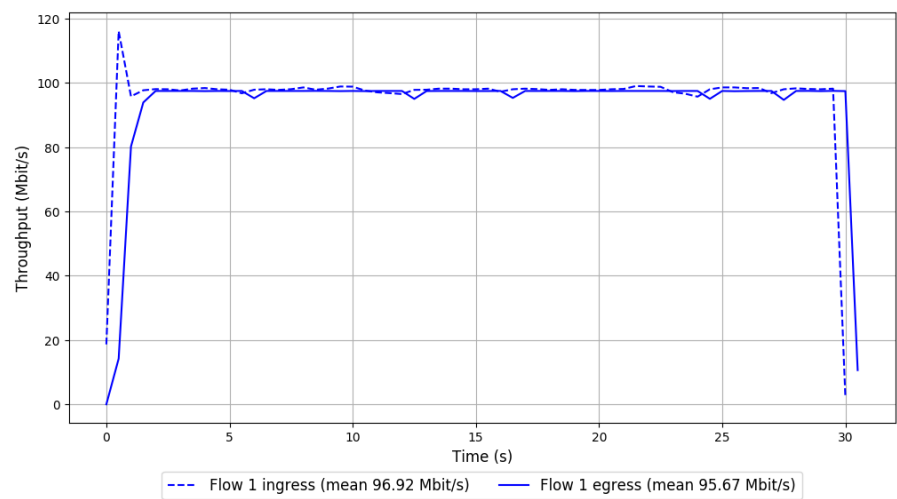
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2019-06-27 02:59:30
End at: 2019-06-27 03:00:00
Local clock offset: -0.286 ms
Remote clock offset: -3.406 ms


# Below is generated by plot.py at 2019-06-27 04:32:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 53.214 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 53.214 ms
Loss rate: 1.07%
```
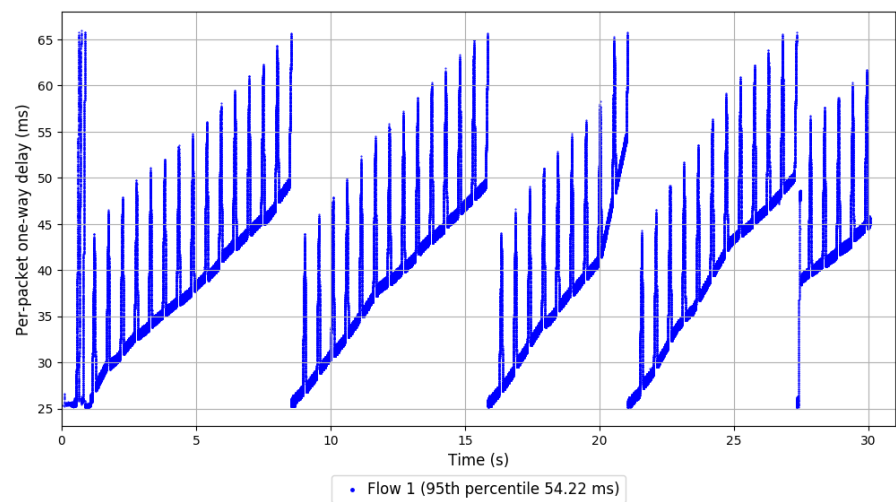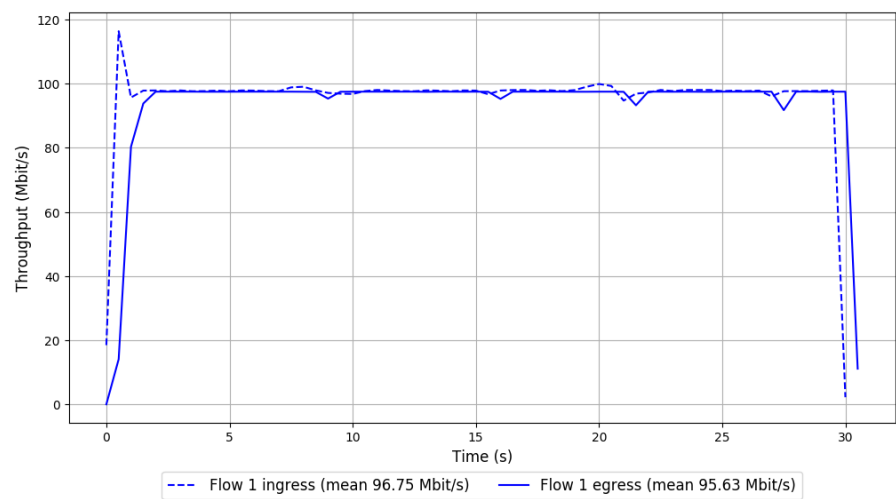
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2019-06-27 03:26:39
End at: 2019-06-27 03:27:09
Local clock offset: -0.022 ms
Remote clock offset: -2.992 ms


# Below is generated by plot.py at 2019-06-27 04:32:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 53.575 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 53.575 ms
Loss rate: 1.22%
```
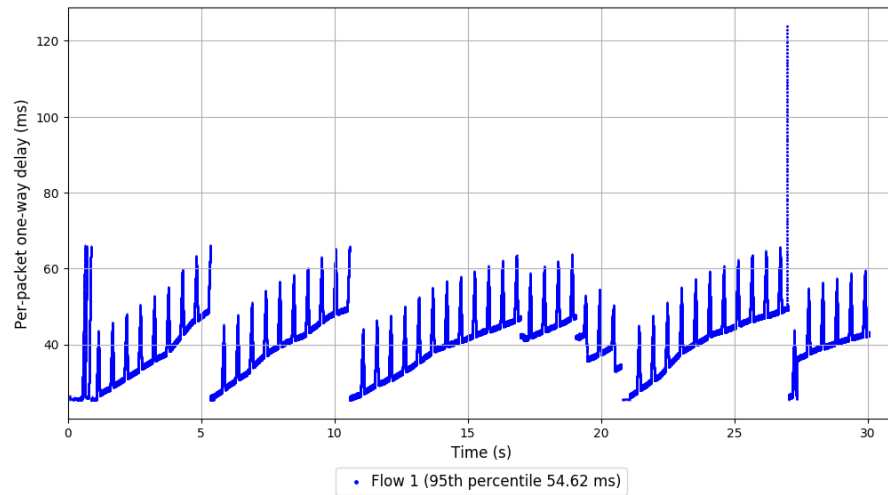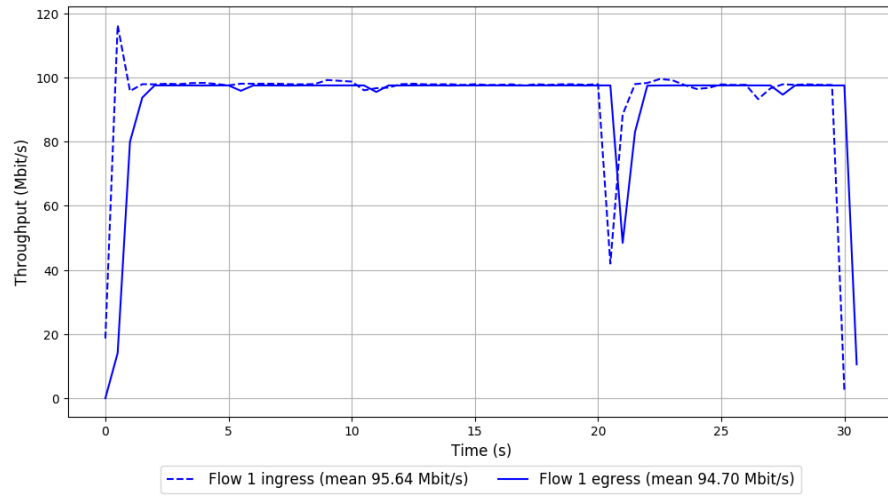
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.92 Mbit/s)   Flow 1 egress (mean 95.67 Mbit/s)

Flow 1 (95th percentile 53.58 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2019-06-27 03:54:12
End at: 2019-06-27 03:54:42
Local clock offset: -1.539 ms
Remote clock offset: -2.766 ms


# Below is generated by plot.py at 2019-06-27 04:32:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 54.222 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 54.222 ms
Loss rate: 1.09%
```

Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2019-06-27 04:20:45
End at: 2019-06-27 04:21:15
Local clock offset: -3.747 ms
Remote clock offset: -2.967 ms


# Below is generated by plot.py at 2019-06-27 04:32:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.70 Mbit/s
95th percentile per-packet one-way delay: 54.619 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 94.70 Mbit/s
95th percentile per-packet one-way delay: 54.619 ms
Loss rate: 0.93%
```
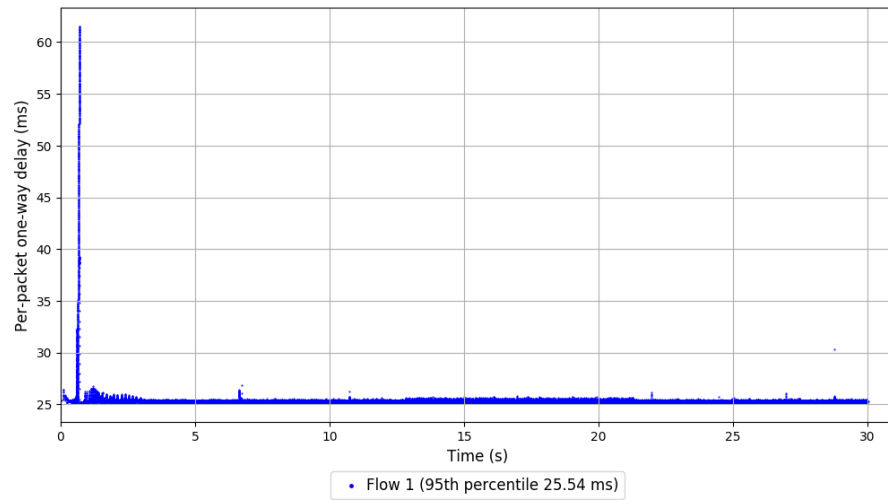
Run 5: Report of TCP BBR — Data Link

```
Run 1: Statistics of Copa

Start at: 2019-06-27 02:37:57
End at: 2019-06-27 02:38:27
Local clock offset: -0.589 ms
Remote clock offset: -3.72 ms


# Below is generated by plot.py at 2019-06-27 04:32:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 25.541 ms
Loss rate: 71.70%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 25.541 ms
Loss rate: 71.70%
```
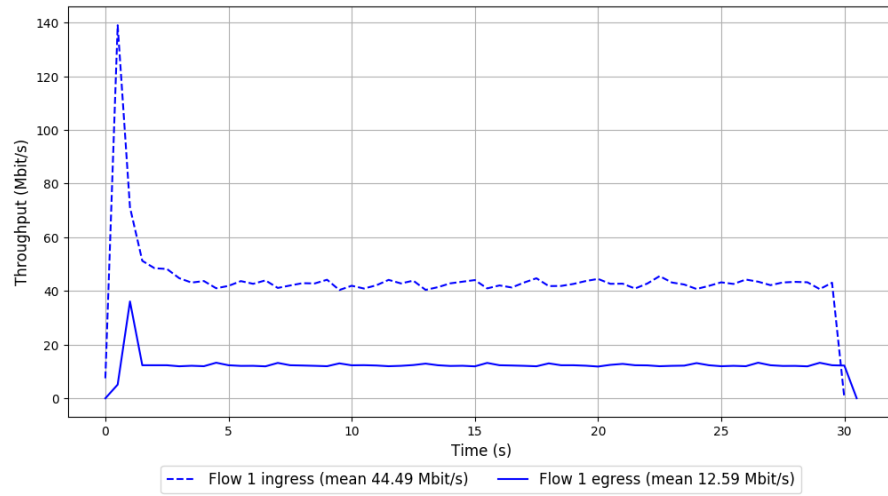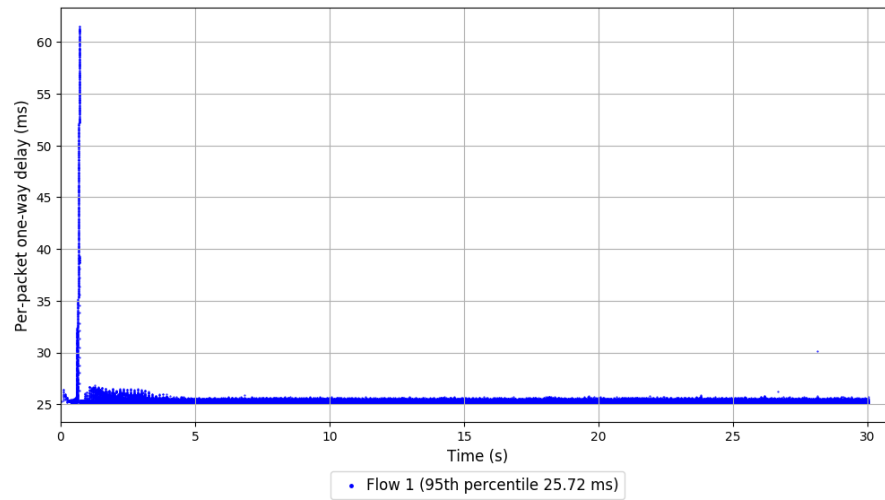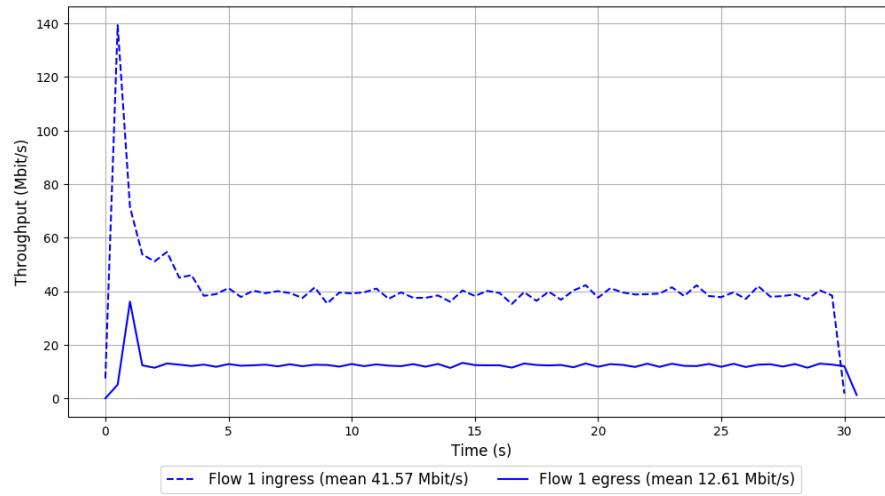
Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 44.49 Mbit/s)   Flow 1 egress (mean 12.59 Mbit/s)

• Flow 1 (95th percentile 25.54 ms)

```
Run 2: Statistics of Copa

Start at: 2019-06-27 03:04:30
End at: 2019-06-27 03:05:00
Local clock offset: -0.227 ms
Remote clock offset: -3.359 ms


# Below is generated by plot.py at 2019-06-27 04:32:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 25.716 ms
Loss rate: 69.67%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 25.716 ms
Loss rate: 69.67%
```
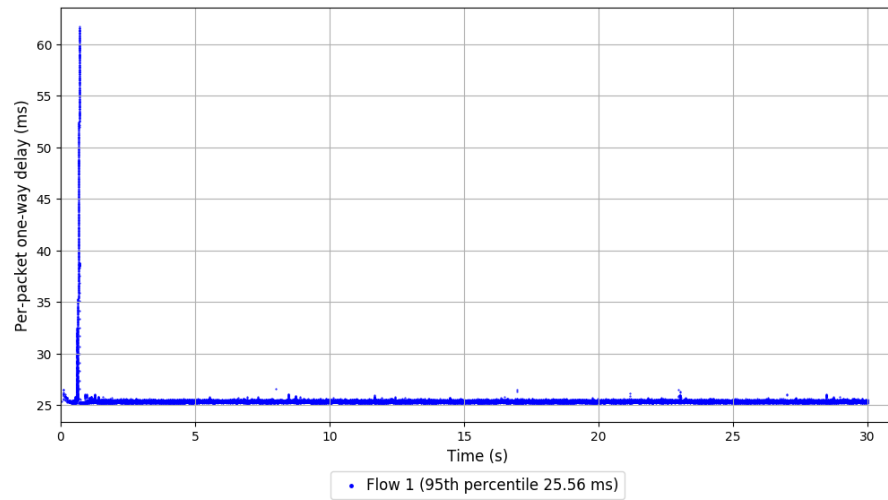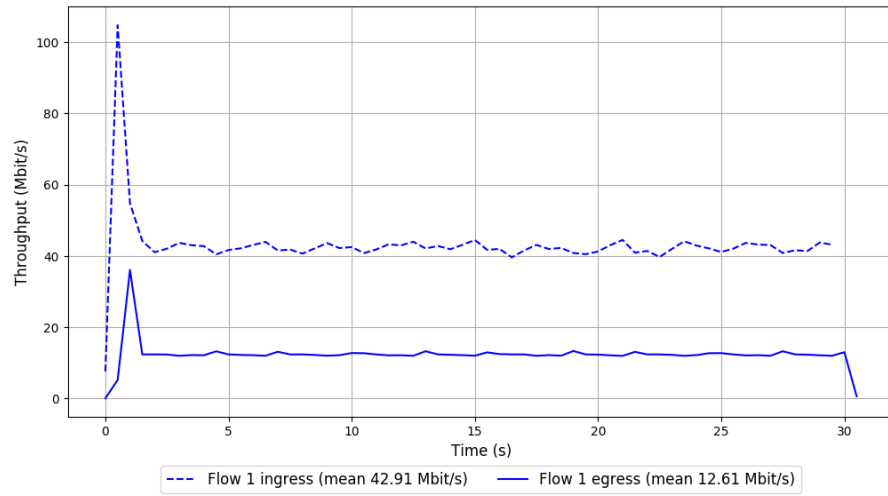
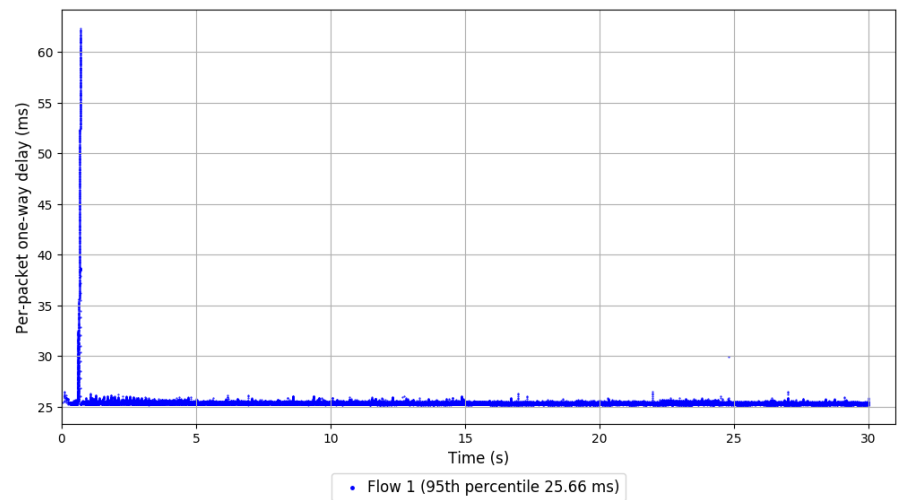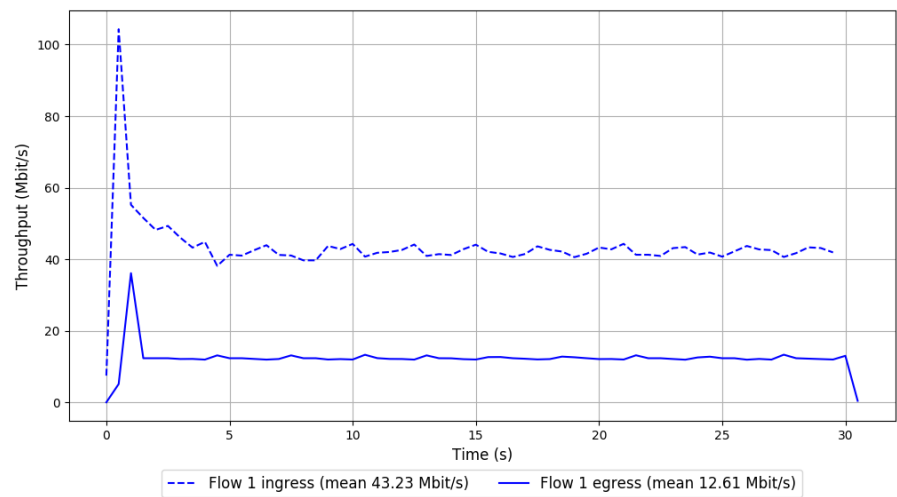Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 41.57 Mbit/s)   Flow 1 egress (mean 12.61 Mbit/s)

• Flow 1 (95th percentile 25.72 ms)

Run 3: Statistics of Copa

Start at: 2019-06-27 03:32:19
End at: 2019-06-27 03:32:49
Local clock offset: -0.013 ms
Remote clock offset: -2.98 ms

Below is generated by plot.py at 2019-06-27 04:32:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 25.562 ms
Loss rate: 70.62%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 25.562 ms
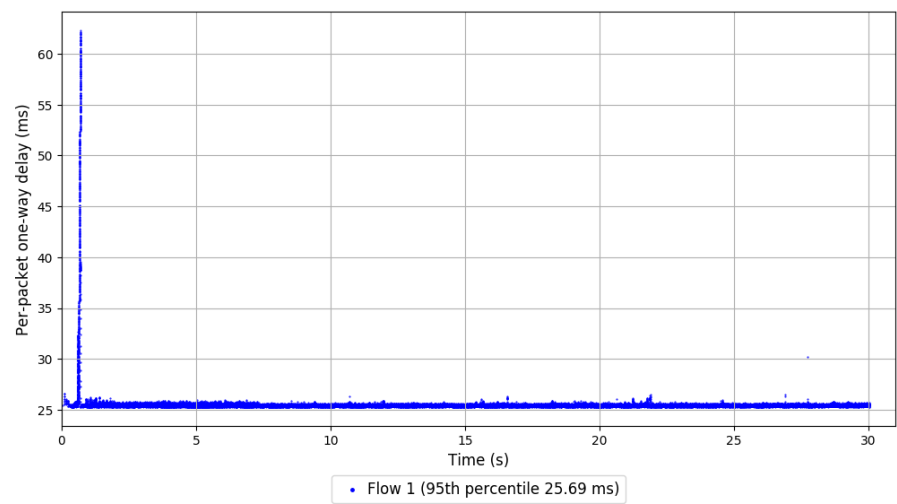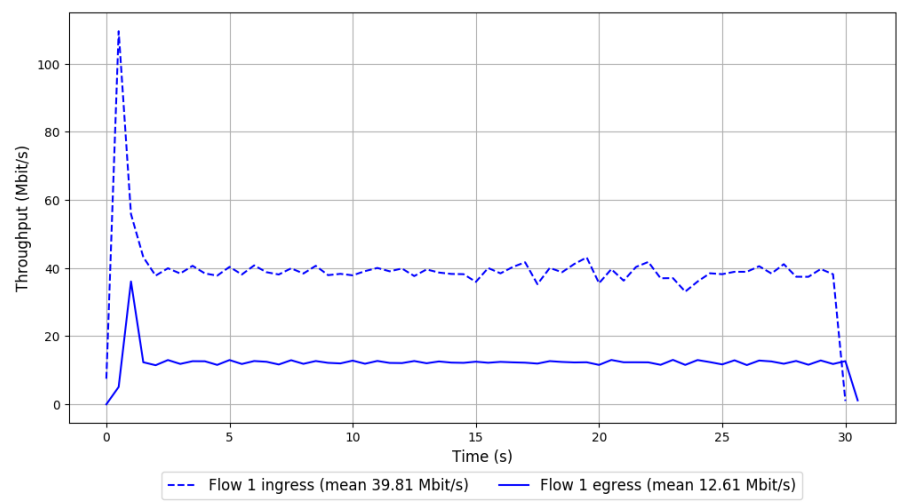Loss rate: 70.62%

Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 42.91 Mbit/s) — — — Flow 1 egress (mean 12.61 Mbit/s)

• Flow 1 (95th percentile 25.56 ms)

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Run 4: Statistics of Copa

Start at: 2019-06-27 03:59:21
End at: 2019-06-27 03:59:51
Local clock offset: -2.45 ms
Remote clock offset: -2.779 ms

Below is generated by plot.py at 2019-06-27 04:32:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 25.657 ms
Loss rate: 70.84%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 25.657 ms
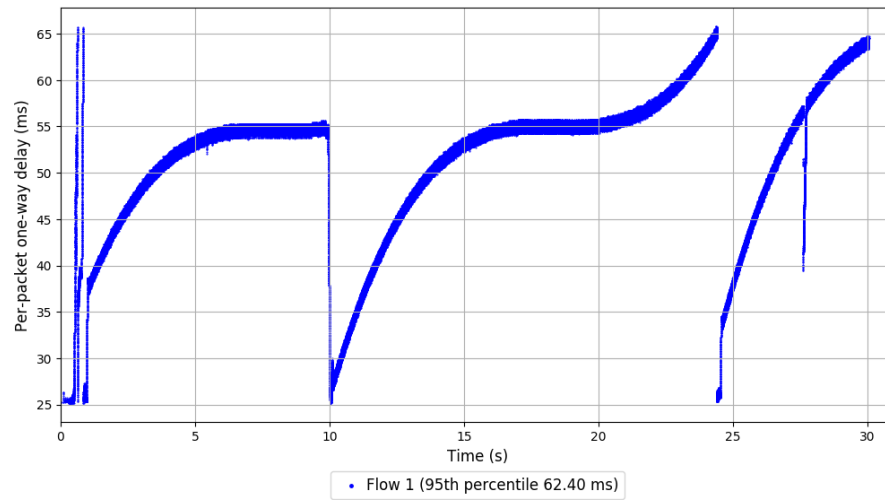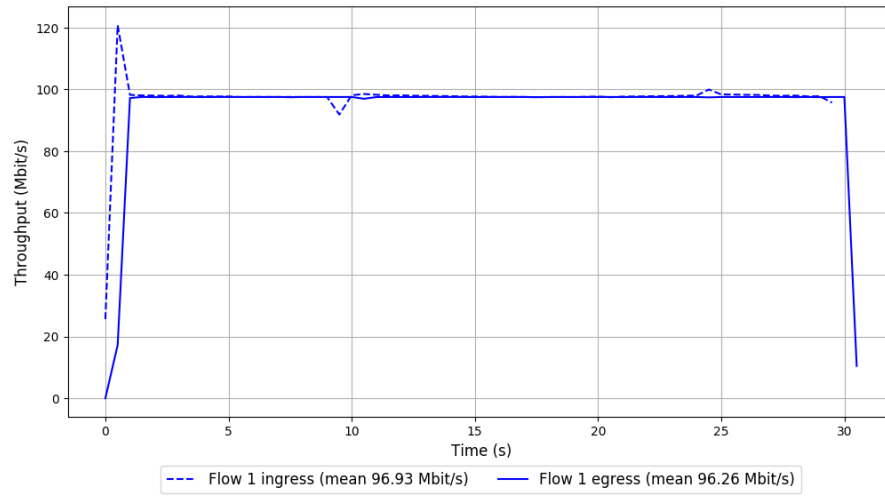Loss rate: 70.84%

Run 4: Report of Copa — Data Link

Flow 1 ingress (mean 43.23 Mbit/s)   Flow 1 egress (mean 12.61 Mbit/s)

Flow 1 (95th percentile 25.66 ms)

```
Run 5: Statistics of Copa

Start at: 2019-06-27 04:25:42
End at: 2019-06-27 04:26:12
Local clock offset: -3.462 ms
Remote clock offset: -3.064 ms

# Below is generated by plot.py at 2019-06-27 04:32:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 25.691 ms
Loss rate: 68.33%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 25.691 ms
Loss rate: 68.33%
```

Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 39.81 Mbit/s) — — — Flow 1 egress (mean 12.61 Mbit/s)

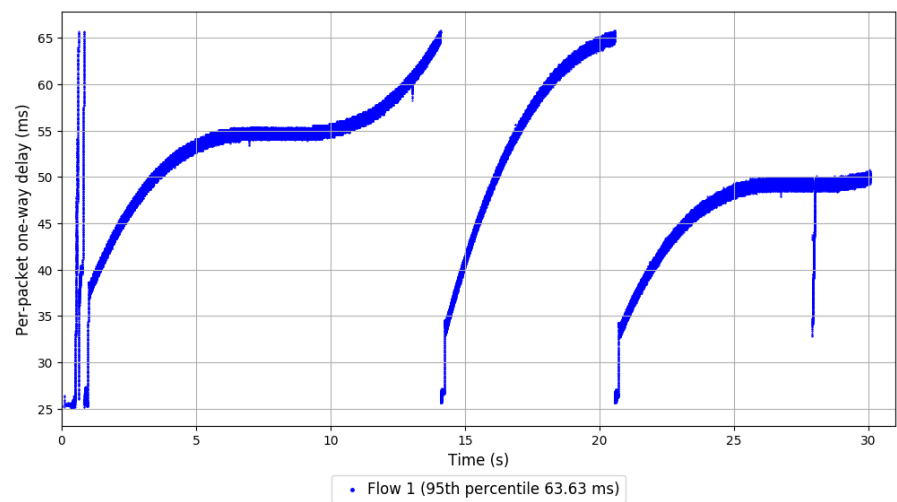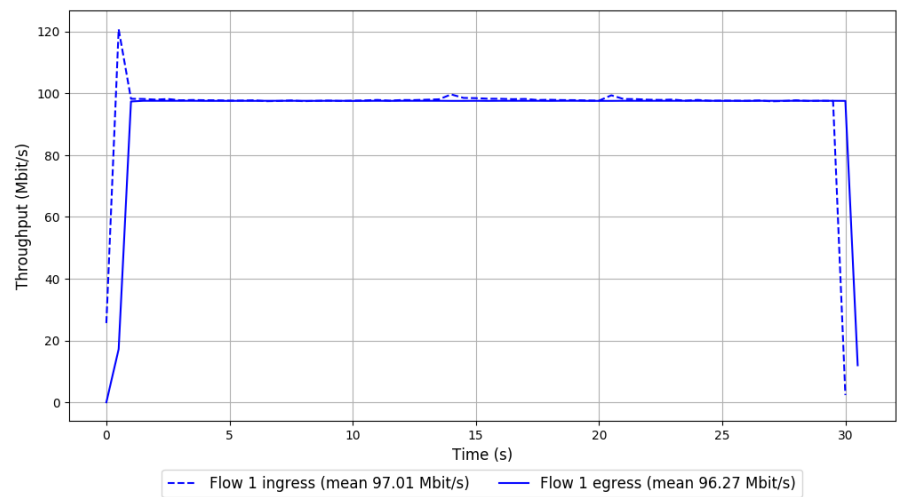• Flow 1 (95th percentile 25.69 ms)

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```
Run 1: Statistics of TCP Cubic

Start at: 2019-06-27 02:30:37
End at: 2019-06-27 02:31:07
Local clock offset: -0.629 ms
Remote clock offset: -3.858 ms

# Below is generated by plot.py at 2019-06-27 04:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 62.399 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 62.399 ms
Loss rate: 0.56%
```
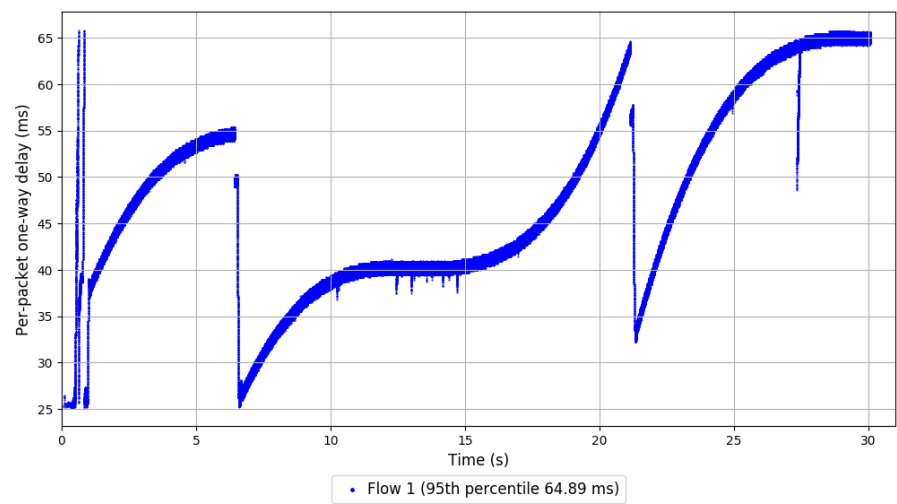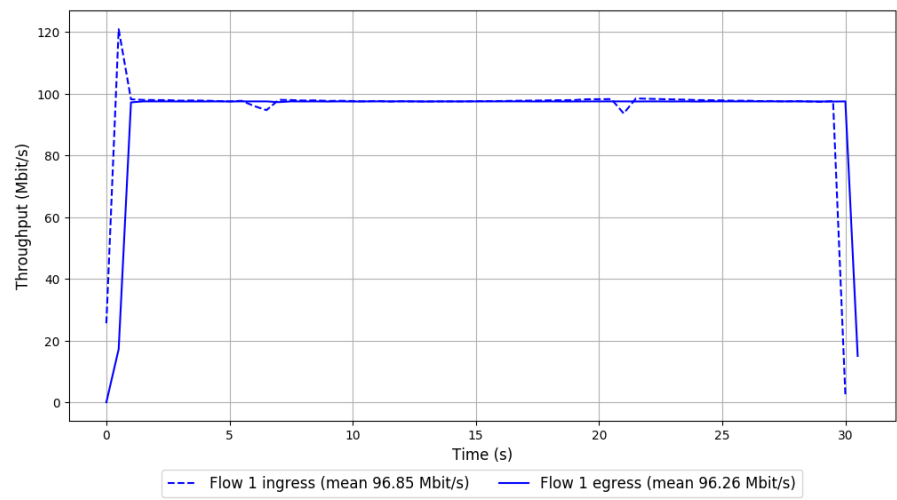
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2019-06-27 02:57:09
End at: 2019-06-27 02:57:39
Local clock offset: -0.298 ms
Remote clock offset: -3.434 ms


# Below is generated by plot.py at 2019-06-27 04:32:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 63.630 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 63.630 ms
Loss rate: 0.68%
```

Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2019-06-27 03:24:09
End at: 2019-06-27 03:24:39
Local clock offset: -0.087 ms
Remote clock offset: -3.051 ms


# Below is generated by plot.py at 2019-06-27 04:32:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 64.893 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 64.893 ms
Loss rate: 0.47%
```
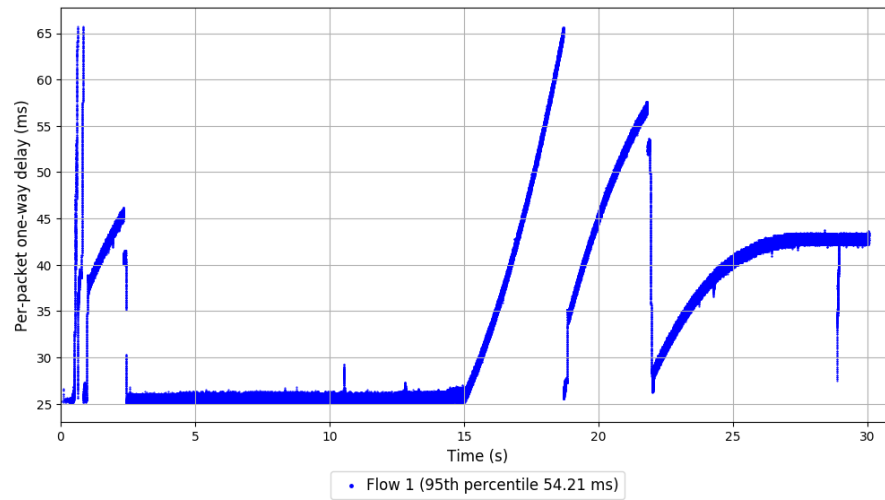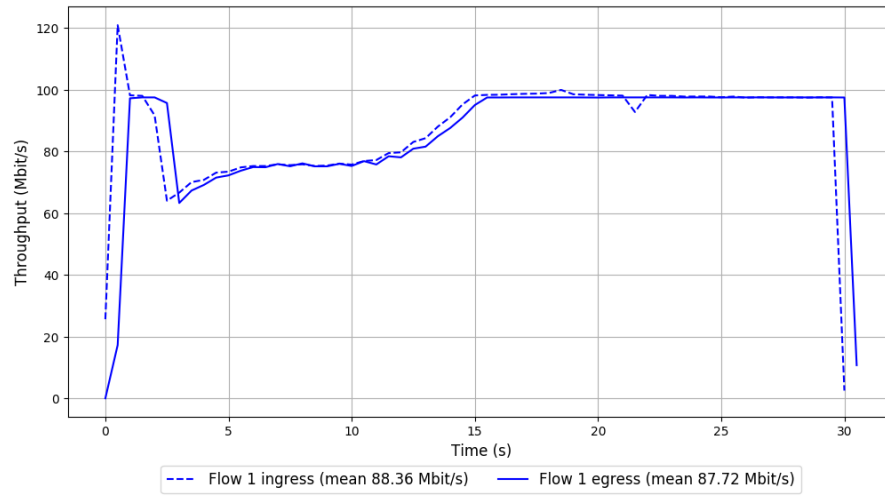
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 96.85 Mbit/s) --- Flow 1 egress (mean 96.26 Mbit/s)
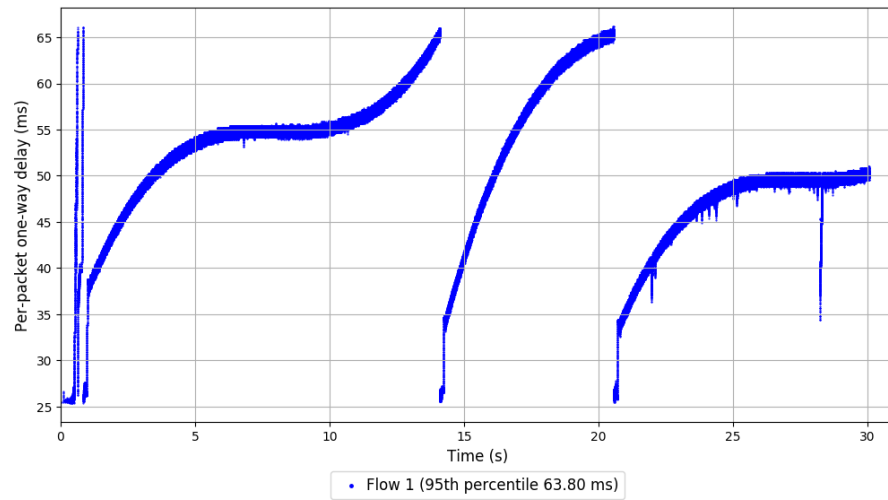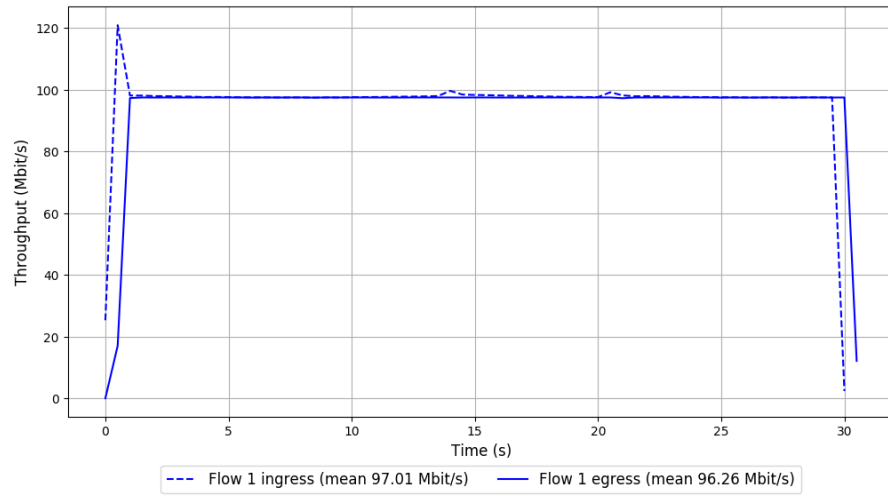

Flow 1 (95th percentile 64.89 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2019-06-27 03:51:52
End at: 2019-06-27 03:52:22
Local clock offset: -1.04 ms
Remote clock offset: -2.809 ms


# Below is generated by plot.py at 2019-06-27 04:33:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.72 Mbit/s
95th percentile per-packet one-way delay: 54.211 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 87.72 Mbit/s
95th percentile per-packet one-way delay: 54.211 ms
Loss rate: 0.66%
```
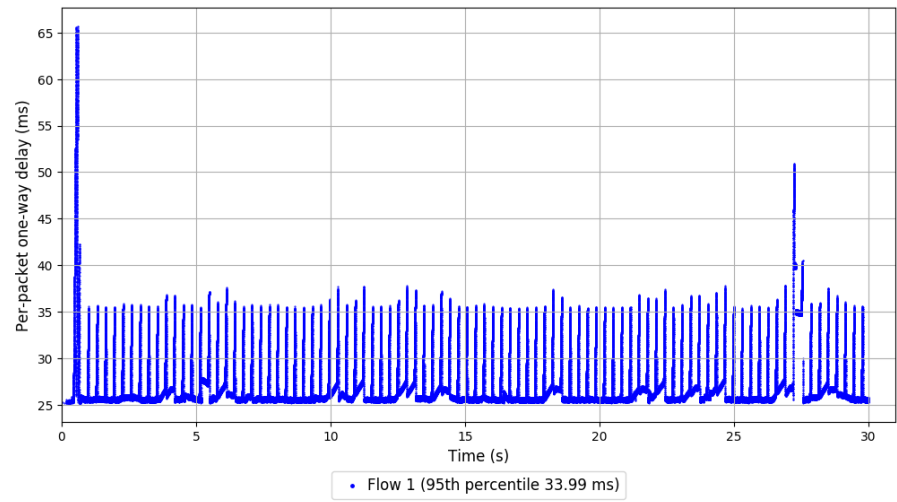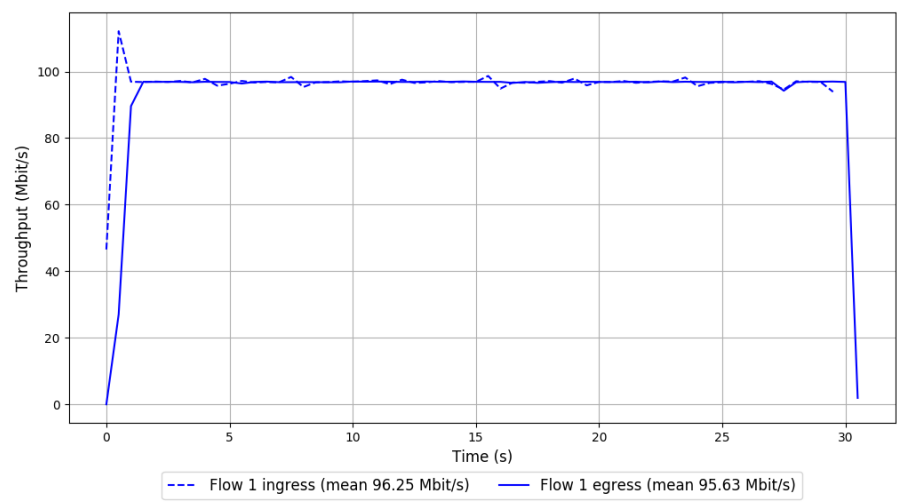
Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2019-06-27 04:18:25
End at: 2019-06-27 04:18:55
Local clock offset: -3.981 ms
Remote clock offset: -2.992 ms


# Below is generated by plot.py at 2019-06-27 04:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 63.799 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 63.799 ms
Loss rate: 0.69%
```

Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.01 Mbit/s)   Flow 1 egress (mean 96.26 Mbit/s)

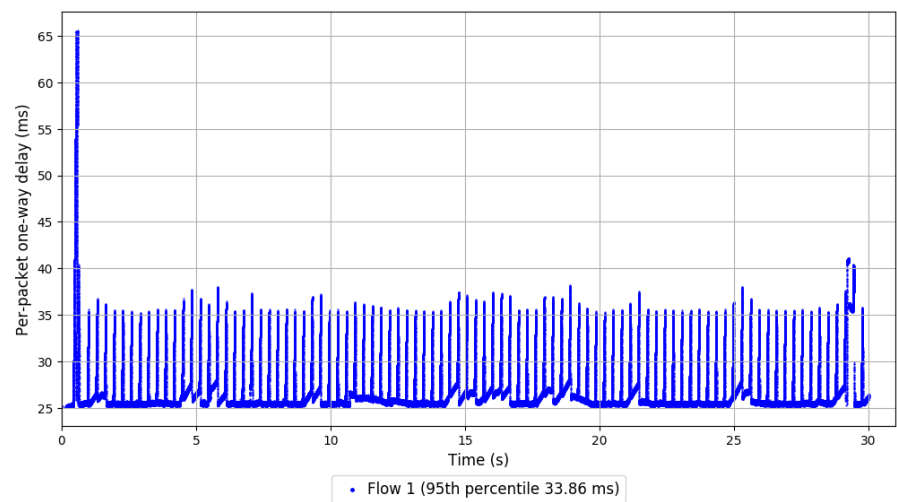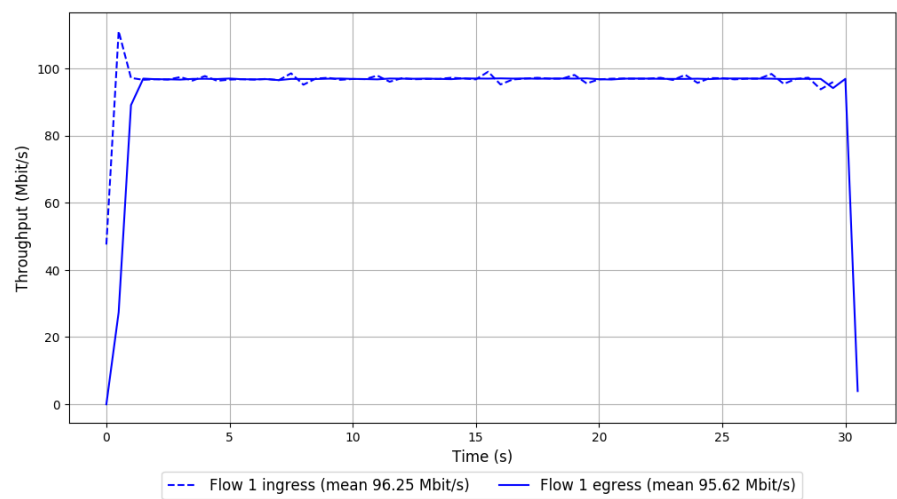Flow 1 (95th percentile 63.80 ms)

```
Run 1: Statistics of FillP

Start at: 2019-06-27 02:29:20
End at: 2019-06-27 02:29:50
Local clock offset: -0.657 ms
Remote clock offset: -3.782 ms


# Below is generated by plot.py at 2019-06-27 04:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 33.991 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 33.991 ms
Loss rate: 0.64%
```

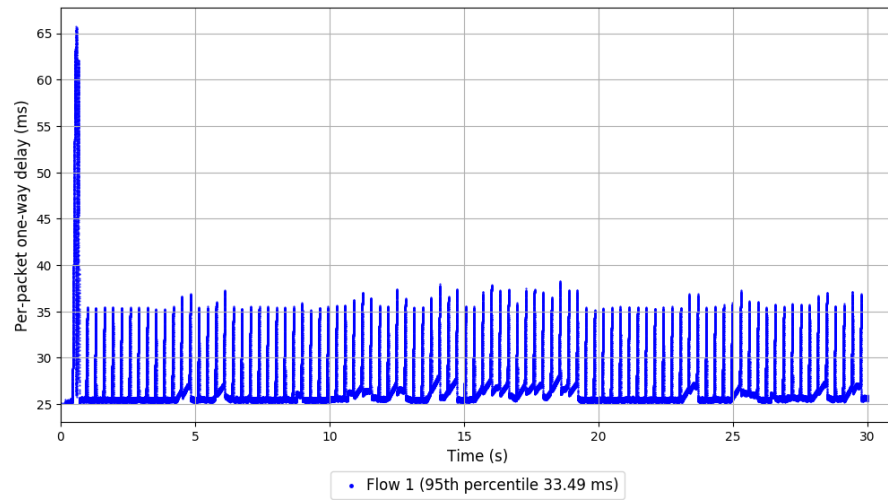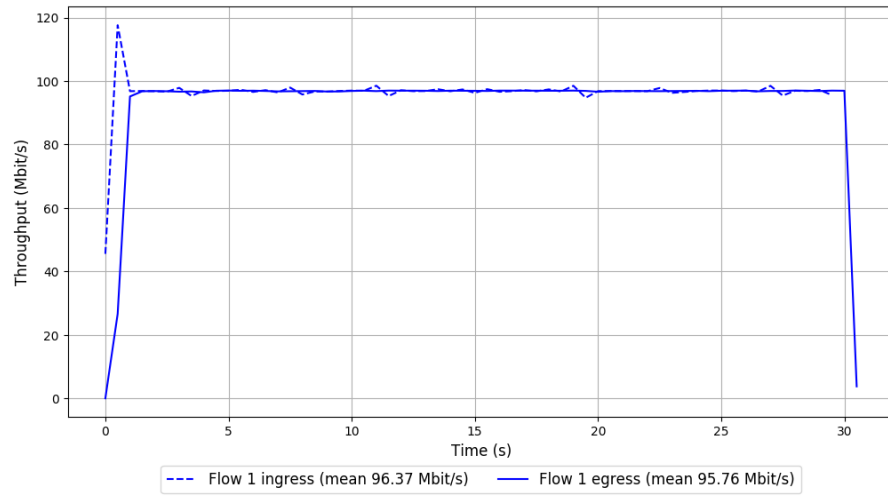Run 1: Report of FillP — Data Link

```
Run 2: Statistics of FillP

Start at: 2019-06-27 02:55:56
End at: 2019-06-27 02:56:27
Local clock offset: -0.367 ms
Remote clock offset: -3.416 ms


# Below is generated by plot.py at 2019-06-27 04:33:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 33.860 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 33.860 ms
Loss rate: 0.65%
```

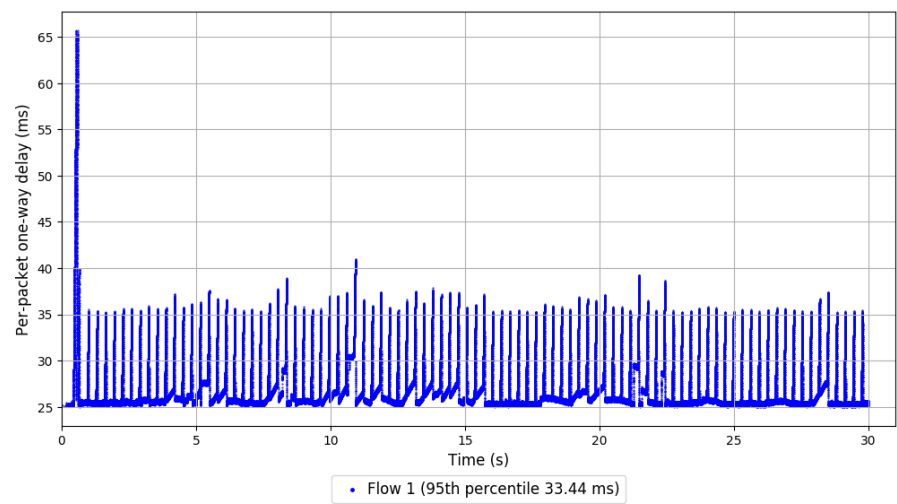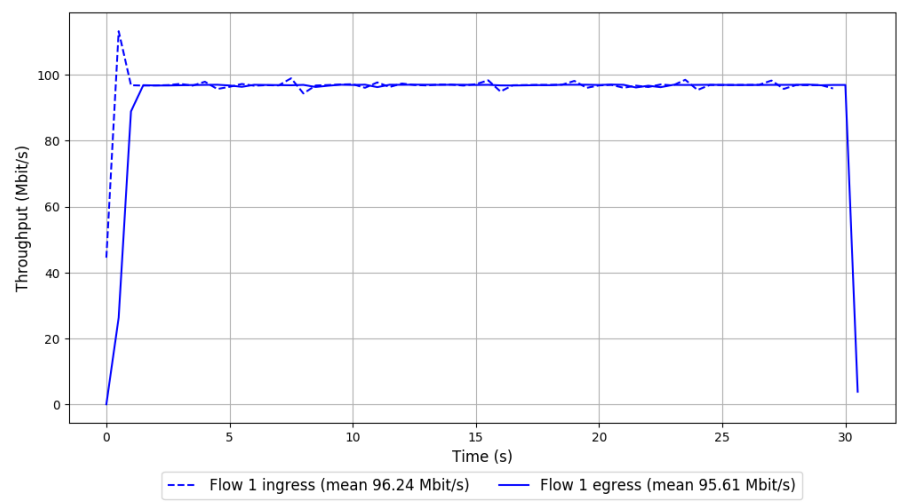Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2019-06-27 03:22:54
End at: 2019-06-27 03:23:24
Local clock offset: -0.121 ms
Remote clock offset: -3.003 ms


# Below is generated by plot.py at 2019-06-27 04:33:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 33.495 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 33.495 ms
Loss rate: 0.63%
```

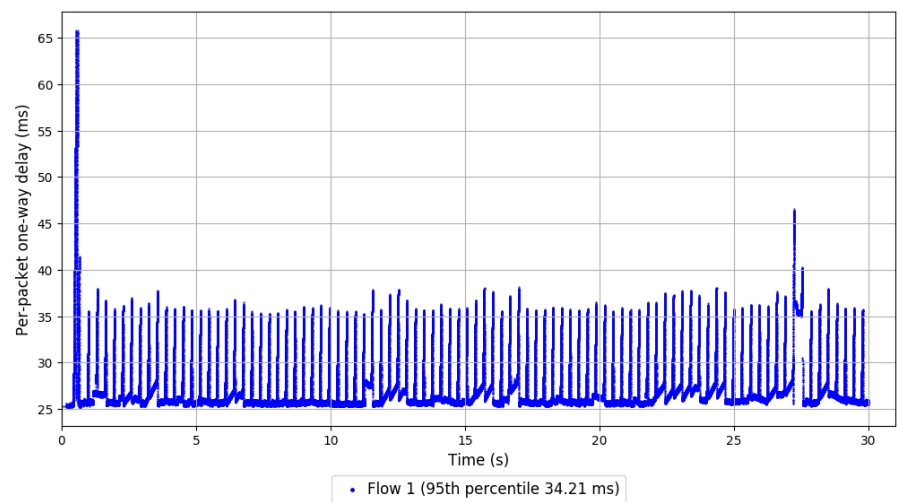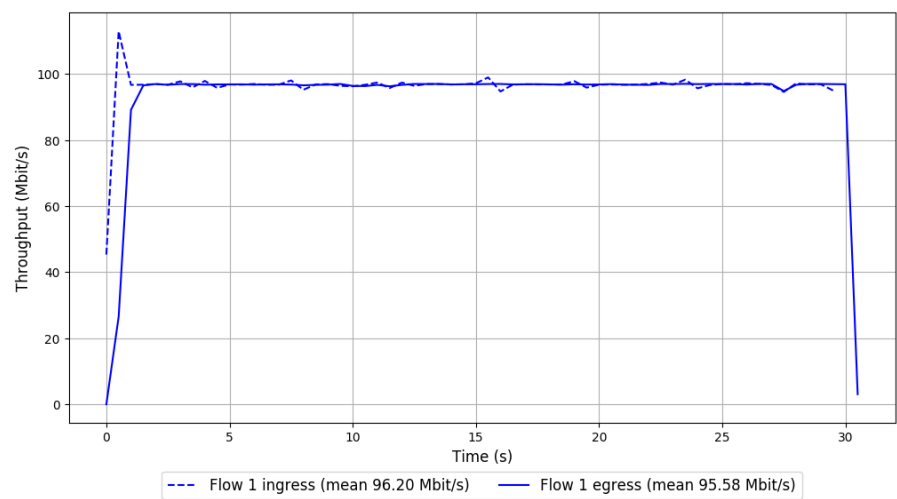Run 3: Report of FillP — Data Link

```
Run 4: Statistics of FillP

Start at: 2019-06-27 03:50:39
End at: 2019-06-27 03:51:09
Local clock offset: -0.749 ms
Remote clock offset: -2.785 ms


# Below is generated by plot.py at 2019-06-27 04:34:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 33.441 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 33.441 ms
Loss rate: 0.65%
```

Run 4: Report of FillP — Data Link

```
Run 5: Statistics of FillP

Start at: 2019-06-27 04:17:14
End at: 2019-06-27 04:17:44
Local clock offset: -3.933 ms
Remote clock offset: -2.869 ms


# Below is generated by plot.py at 2019-06-27 04:34:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 34.208 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 34.208 ms
Loss rate: 0.65%
```
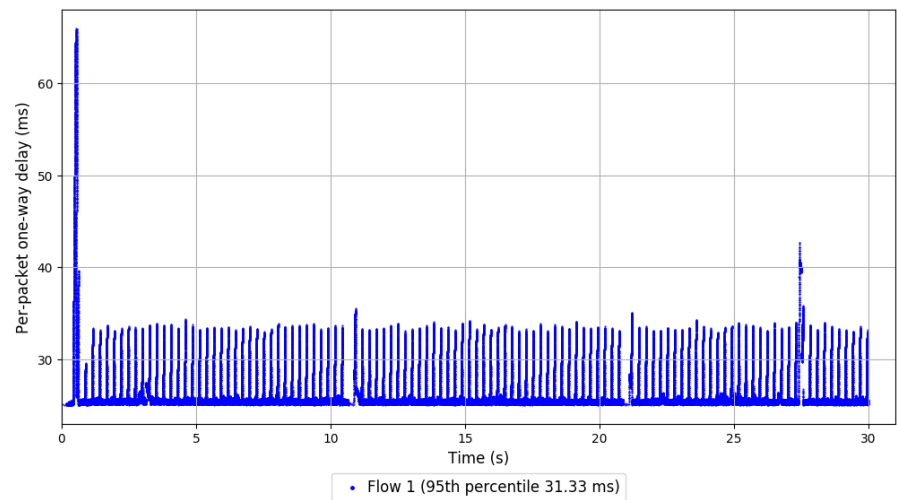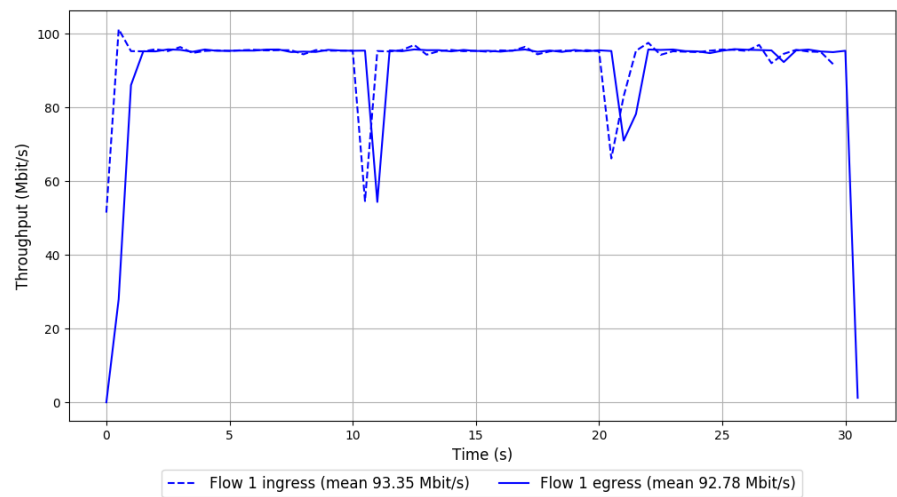
Run 5: Report of FillP — Data Link

```
Run 1: Statistics of FillP-Sheep

Start at: 2019-06-27 02:40:12
End at: 2019-06-27 02:40:42
Local clock offset: -0.652 ms
Remote clock offset: -3.715 ms


# Below is generated by plot.py at 2019-06-27 04:34:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 31.328 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 31.328 ms
Loss rate: 0.61%
```
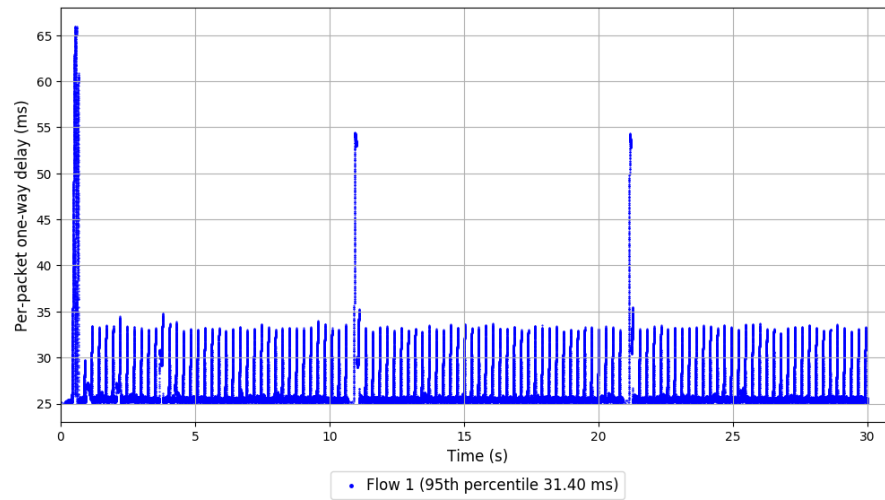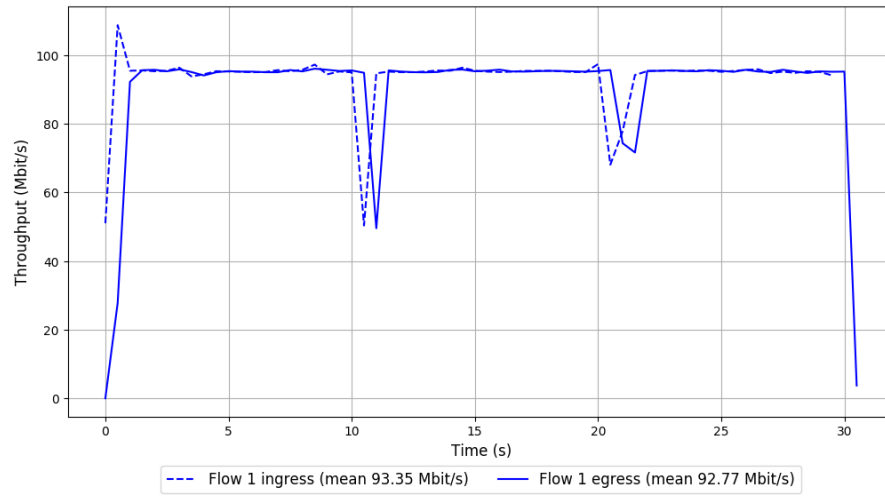
Run 1: Report of FillP-Sheep — Data Link

```
Run 2: Statistics of FillP-Sheep

Start at: 2019-06-27 03:06:45
End at: 2019-06-27 03:07:15
Local clock offset: -0.239 ms
Remote clock offset: -3.264 ms


# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 31.398 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 31.398 ms
Loss rate: 0.62%
```
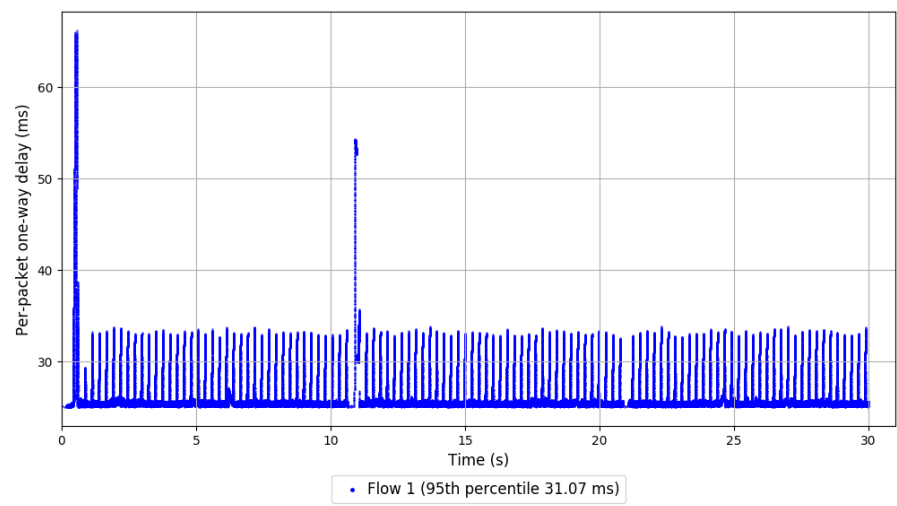
Run 2: Report of FillP-Sheep — Data Link

```
Run 3: Statistics of FillP-Sheep

Start at: 2019-06-27 03:34:36
End at: 2019-06-27 03:35:06
Local clock offset: 0.004 ms
Remote clock offset: -3.03 ms


# Below is generated by plot.py at 2019-06-27 04:34:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 31.071 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 31.071 ms
Loss rate: 0.60%
```
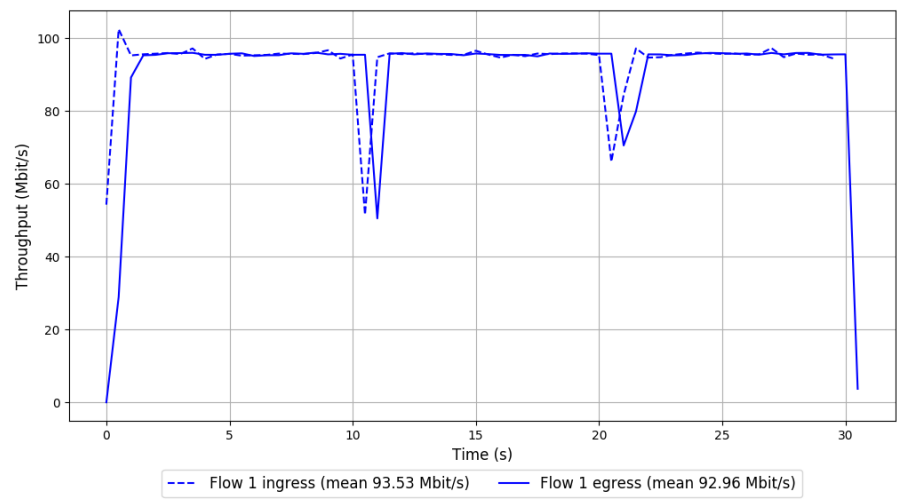
Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 93.53 Mbit/s)　　　Flow 1 egress (mean 92.96 Mbit/s)

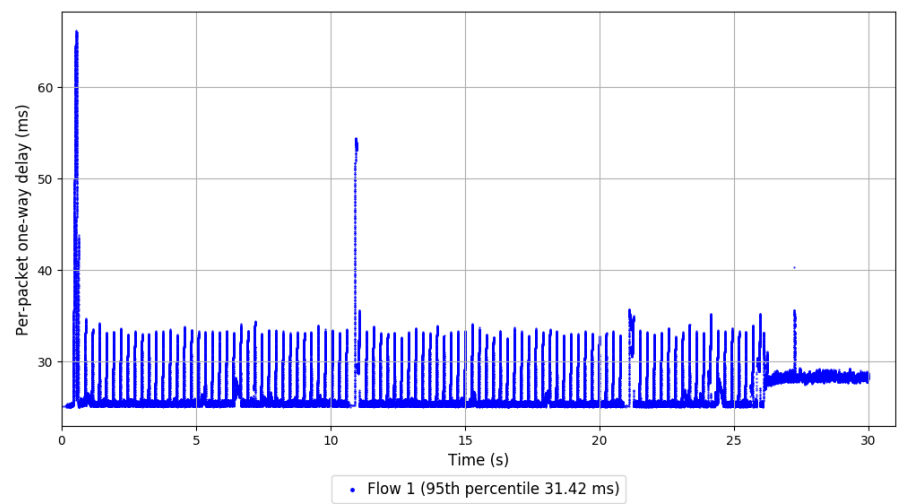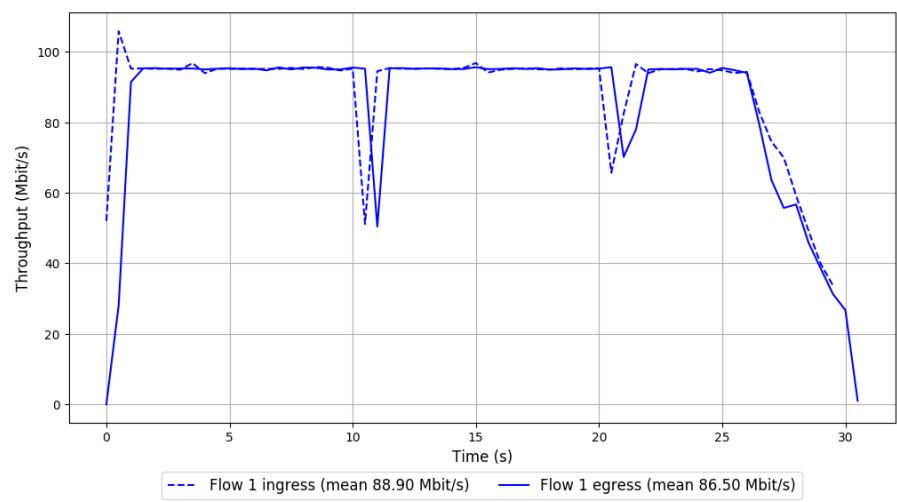
Flow 1 (95th percentile 31.07 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2019-06-27 04:01:36
End at: 2019-06-27 04:02:07
Local clock offset: -2.716 ms
Remote clock offset: -2.721 ms


# Below is generated by plot.py at 2019-06-27 04:35:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 31.416 ms
Loss rate: 2.68%
-- Flow 1:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 31.416 ms
Loss rate: 2.68%
```

Run 4: Report of FillP-Sheep — Data Link

```
Run 5: Statistics of FillP-Sheep

Start at: 2019-06-27 04:27:56
End at: 2019-06-27 04:28:26
Local clock offset: -3.399 ms
Remote clock offset: -3.228 ms


# Below is generated by plot.py at 2019-06-27 04:35:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.60 Mbit/s
95th percentile per-packet one-way delay: 31.329 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 92.60 Mbit/s
95th percentile per-packet one-way delay: 31.329 ms
Loss rate: 0.62%
```
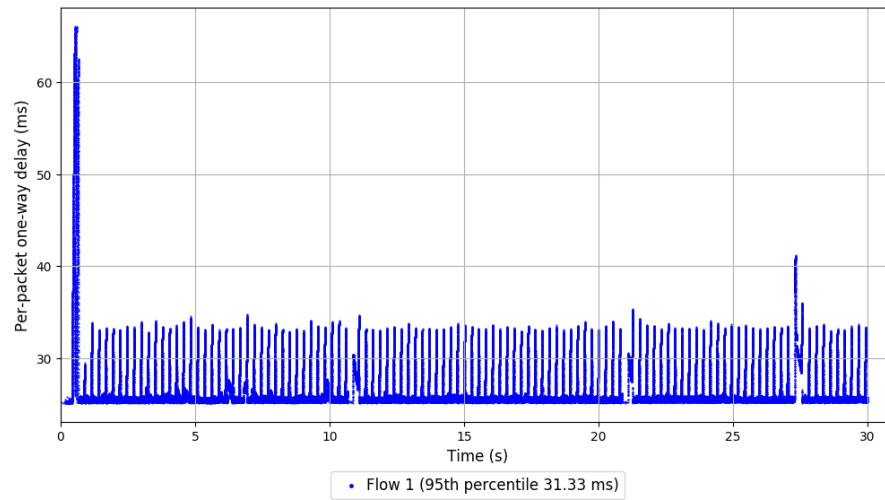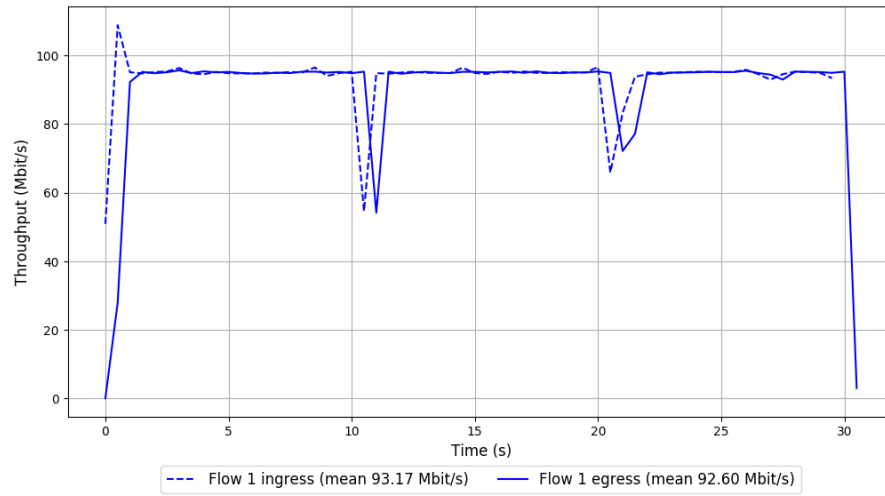
Run 5: Report of FillP-Sheep — Data Link

```
Run 1: Statistics of Indigo

Start at: 2019-06-27 02:34:15
End at: 2019-06-27 02:34:45
Local clock offset: -0.59 ms
Remote clock offset: -3.663 ms


# Below is generated by plot.py at 2019-06-27 04:35:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 28.882 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 28.882 ms
Loss rate: 0.00%
```
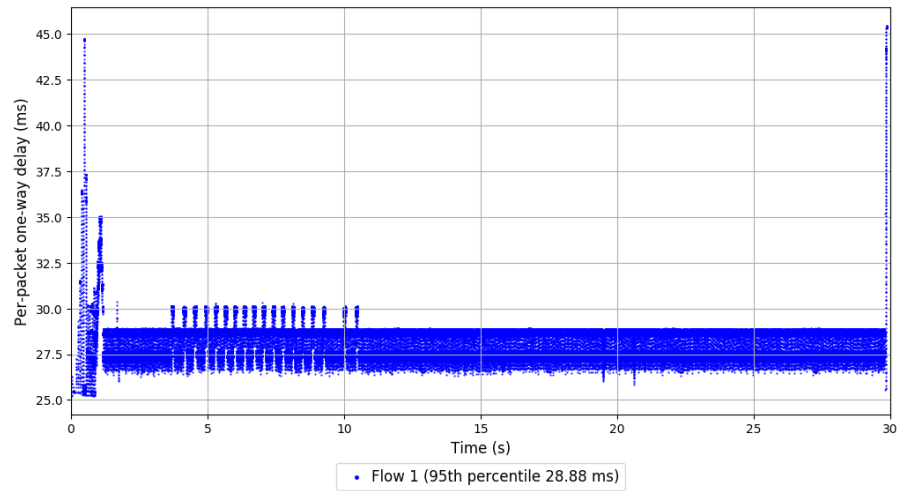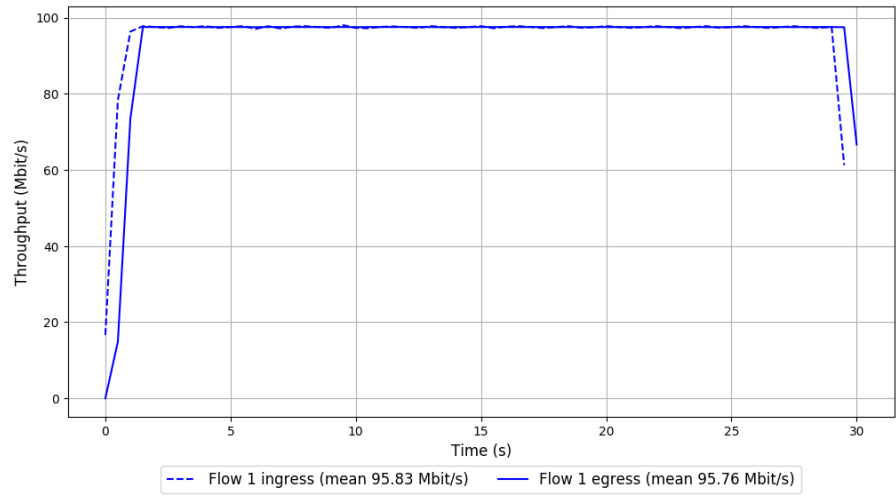
Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2019-06-27 03:00:44
End at: 2019-06-27 03:01:14
Local clock offset: -0.205 ms
Remote clock offset: -3.405 ms


# Below is generated by plot.py at 2019-06-27 04:35:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 29.643 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 29.643 ms
Loss rate: 0.02%
```
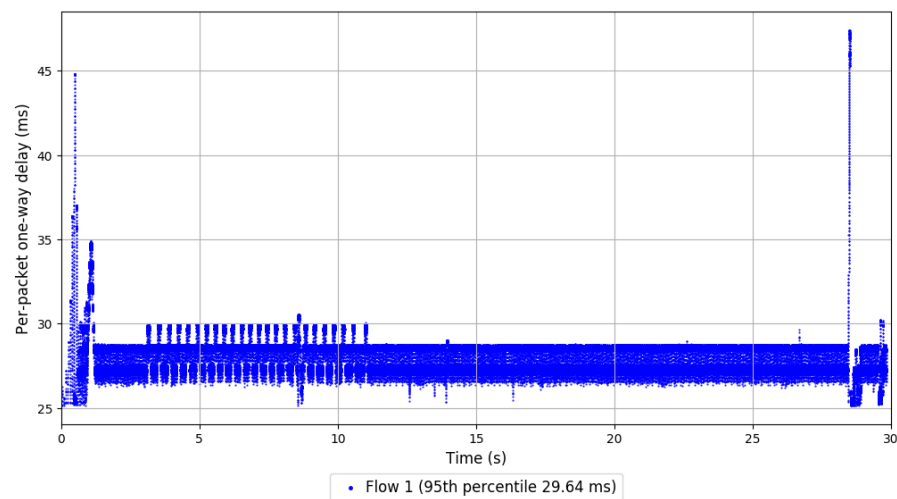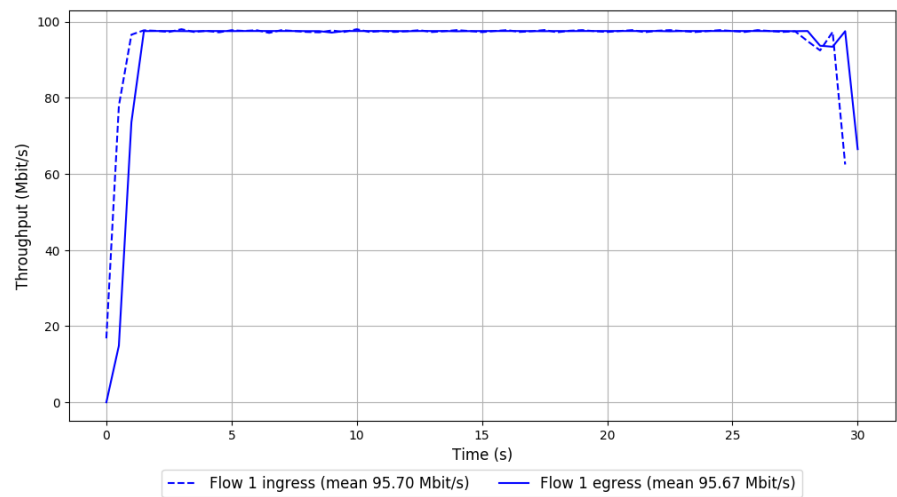
Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2019-06-27 03:28:02
End at: 2019-06-27 03:28:32
Local clock offset: -0.027 ms
Remote clock offset: -3.01 ms


# Below is generated by plot.py at 2019-06-27 04:35:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 29.667 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 29.667 ms
Loss rate: 0.01%
```
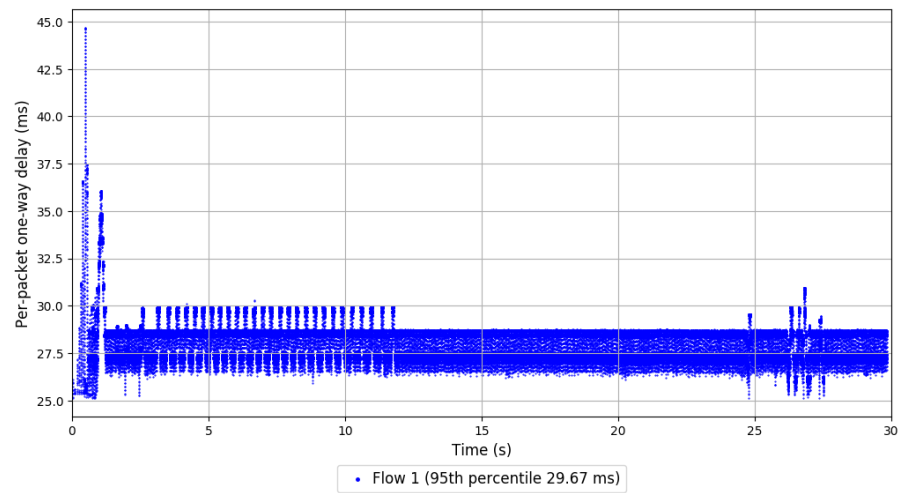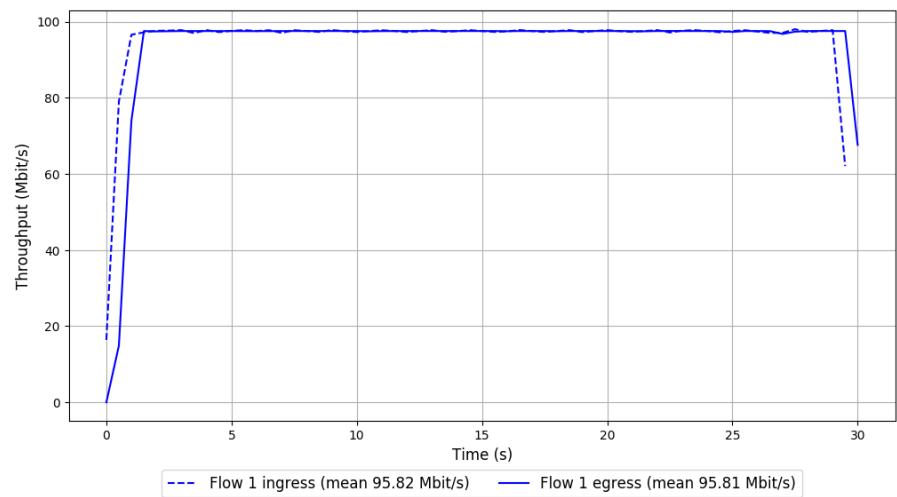
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2019-06-27 03:55:34
End at: 2019-06-27 03:56:04
Local clock offset: -1.869 ms
Remote clock offset: -2.789 ms


# Below is generated by plot.py at 2019-06-27 04:35:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 29.687 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 29.687 ms
Loss rate: 0.00%
```
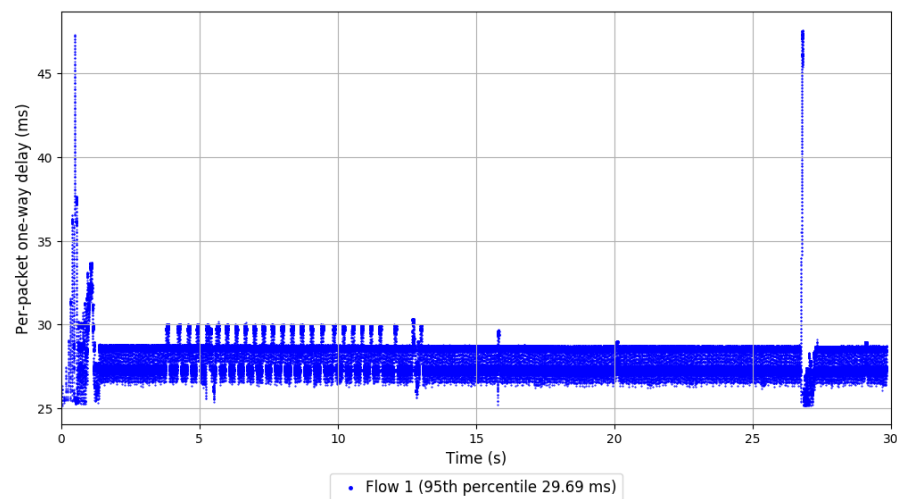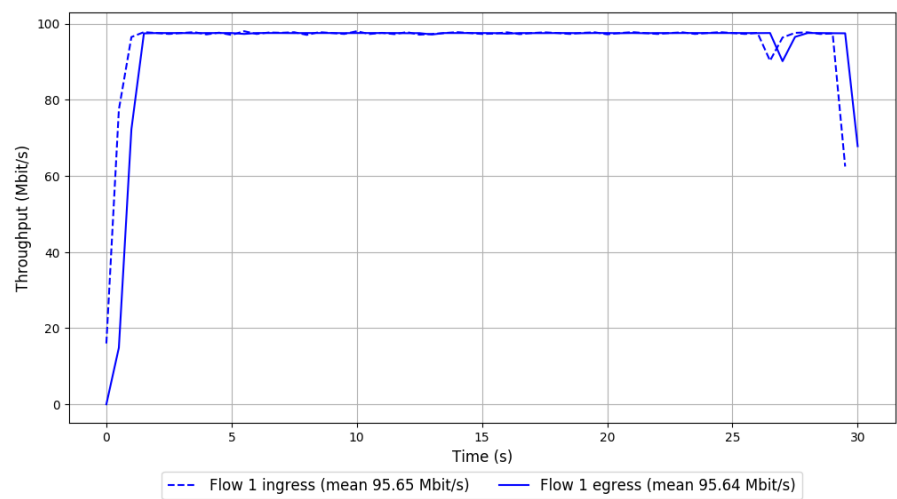
Run 4: Report of Indigo — Data Link

Flow 1 ingress (mean 95.65 Mbit/s)   Flow 1 egress (mean 95.64 Mbit/s)

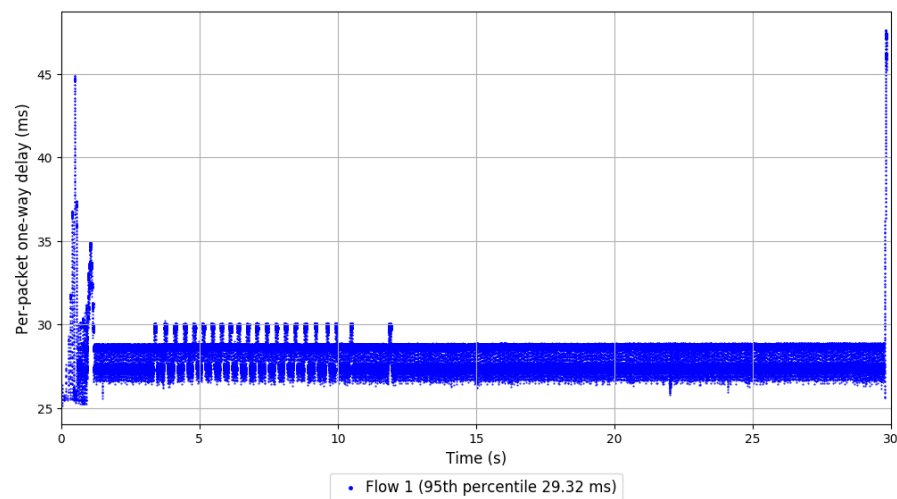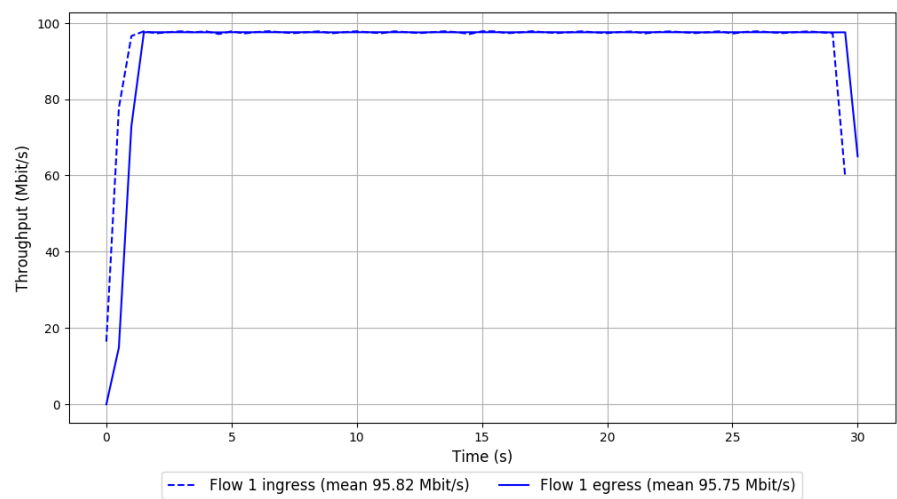Flow 1 (95th percentile 29.69 ms)

```
Run 5: Statistics of Indigo

Start at: 2019-06-27 04:21:59
End at: 2019-06-27 04:22:29
Local clock offset: -3.652 ms
Remote clock offset: -3.028 ms


# Below is generated by plot.py at 2019-06-27 04:36:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 29.323 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 29.323 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

Flow 1 ingress (mean 95.82 Mbit/s)   Flow 1 egress (mean 95.75 Mbit/s)

• Flow 1 (95th percentile 29.32 ms)

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-06-27 02:17:44
End at: 2019-06-27 02:18:14
Local clock offset: -1.463 ms
Remote clock offset: -3.835 ms


# Below is generated by plot.py at 2019-06-27 04:36:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 31.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 31.783 ms
Loss rate: 0.00%
```
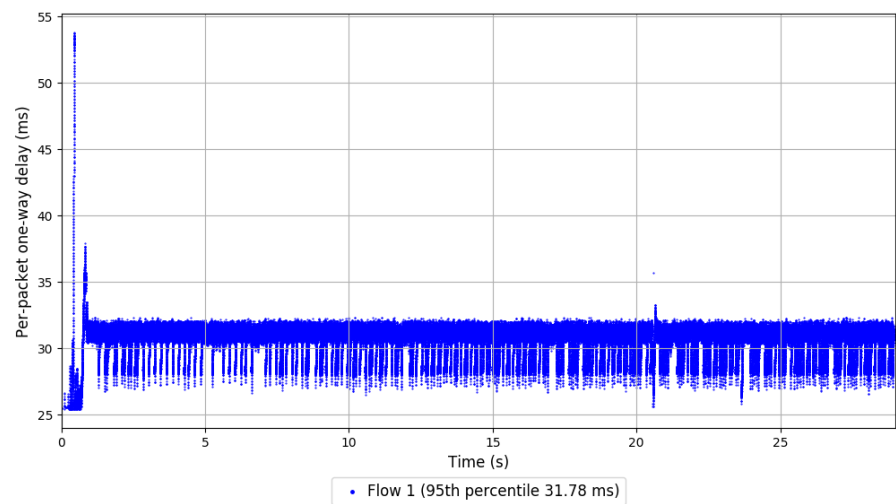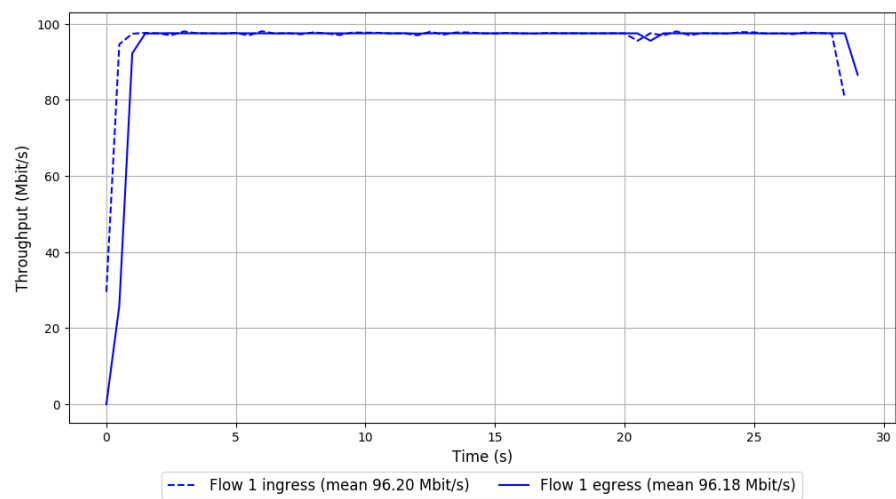
Run 1: Report of Indigo-MusesC3 — Data Link

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-06-27 02:43:49
End at: 2019-06-27 02:44:19
Local clock offset: -0.729 ms
Remote clock offset: -3.64 ms


# Below is generated by plot.py at 2019-06-27 04:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 31.539 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 31.539 ms
Loss rate: 0.07%
```
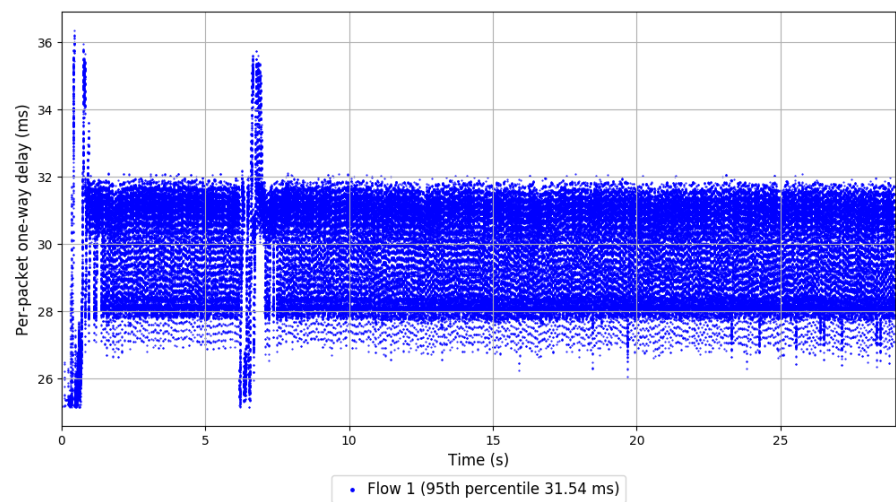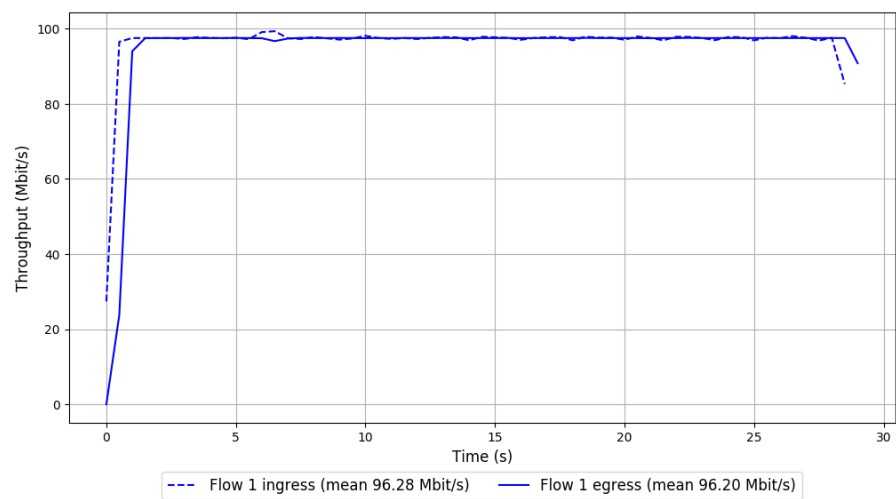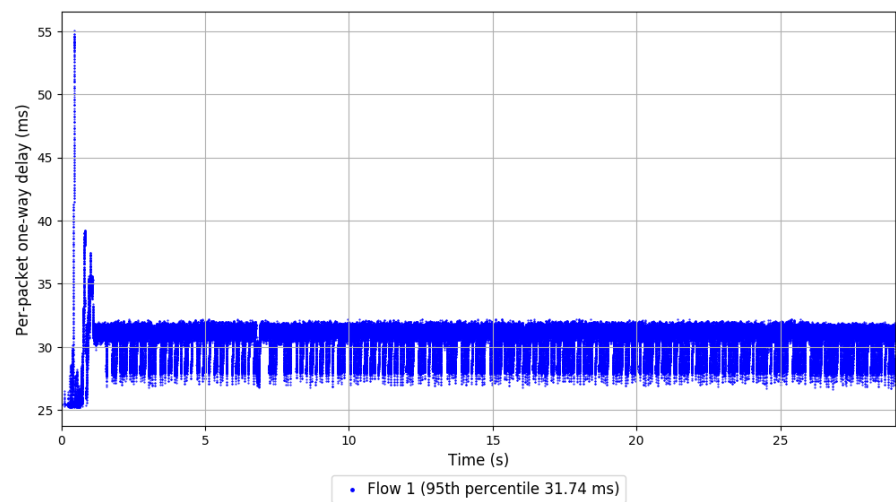
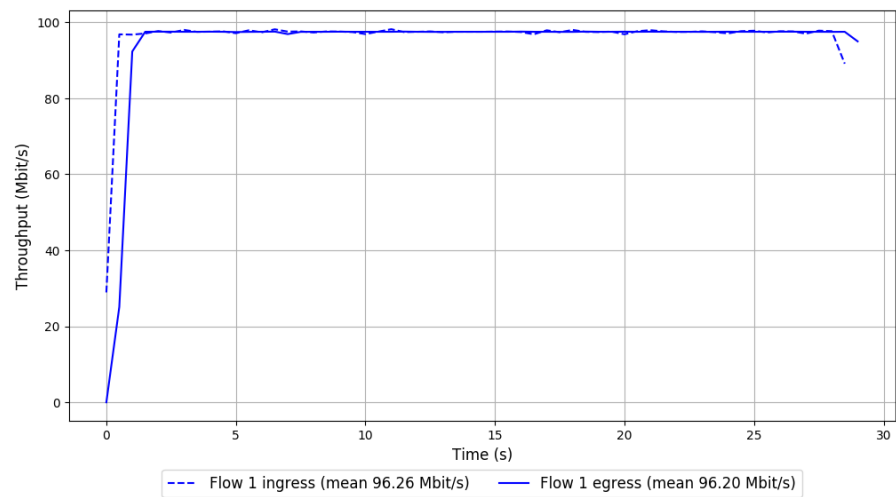Run 2: Report of Indigo-MusesC3 — Data Link

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-06-27 03:10:30
End at: 2019-06-27 03:11:00
Local clock offset: -0.229 ms
Remote clock offset: -3.262 ms


# Below is generated by plot.py at 2019-06-27 04:36:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 31.736 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 31.736 ms
Loss rate: 0.05%
```
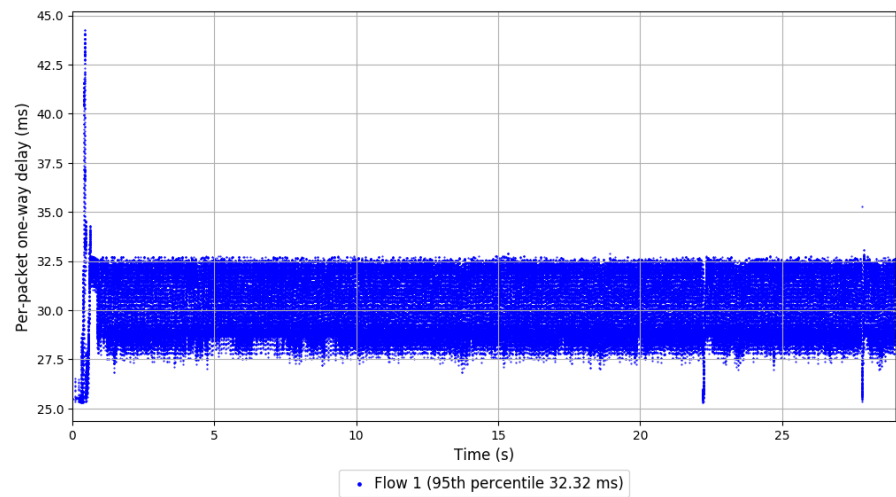
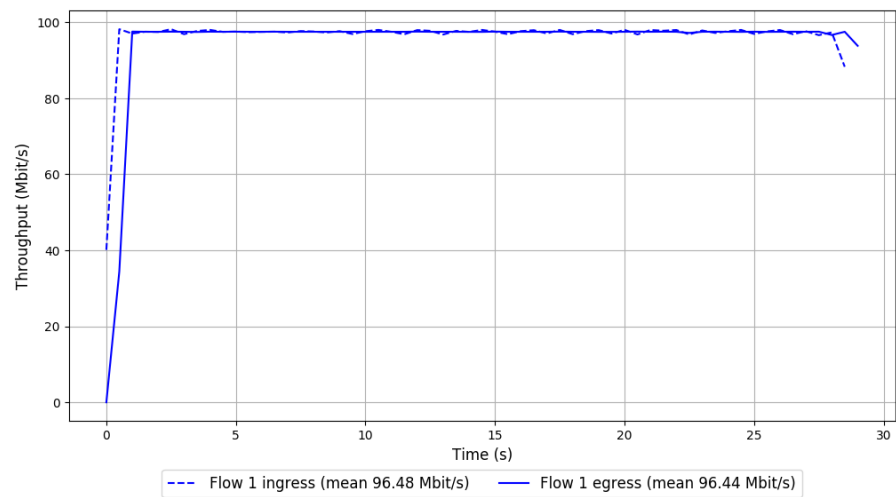Run 3: Report of Indigo-MusesC3 — Data Link

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-06-27 03:38:28
End at: 2019-06-27 03:38:58
Local clock offset: 0.014 ms
Remote clock offset: -2.875 ms


# Below is generated by plot.py at 2019-06-27 04:36:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 32.317 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 32.317 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 96.48 Mbit/s)   Flow 1 egress (mean 96.44 Mbit/s)
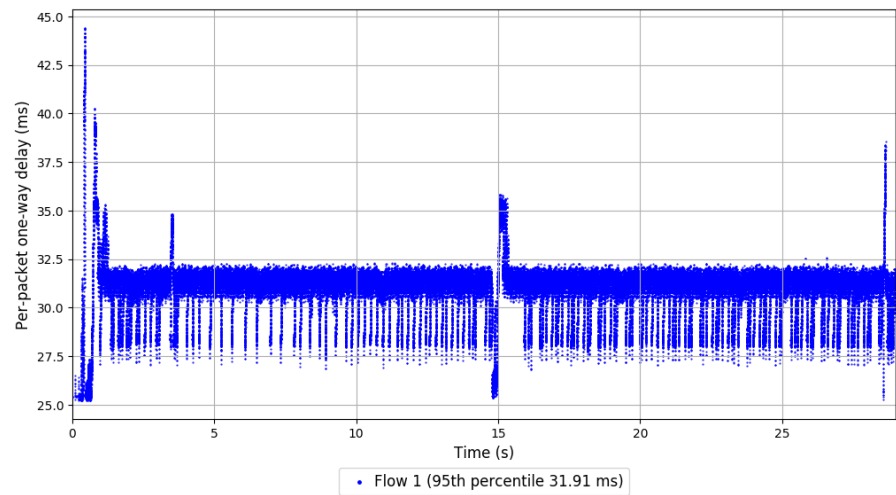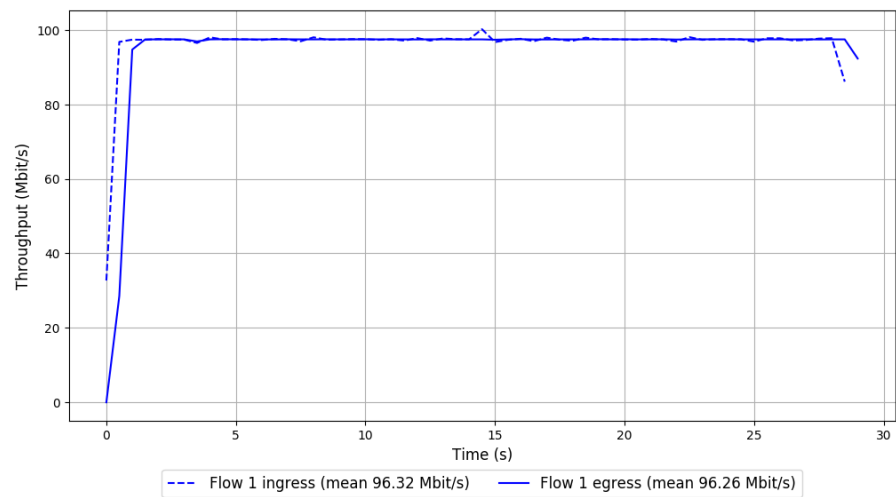

Flow 1 (95th percentile 32.32 ms)

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-06-27 04:05:09
End at: 2019-06-27 04:05:39
Local clock offset: -3.051 ms
Remote clock offset: -2.752 ms


# Below is generated by plot.py at 2019-06-27 04:36:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 31.906 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 31.906 ms
Loss rate: 0.04%
```

Run 5: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 96.32 Mbit/s)   Flow 1 egress (mean 96.26 Mbit/s)

Flow 1 (95th percentile 31.91 ms)

```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-06-27 02:16:34
End at: 2019-06-27 02:17:04
Local clock offset: -1.374 ms
Remote clock offset: -3.858 ms


# Below is generated by plot.py at 2019-06-27 04:36:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 31.068 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 31.068 ms
Loss rate: 0.00%
```
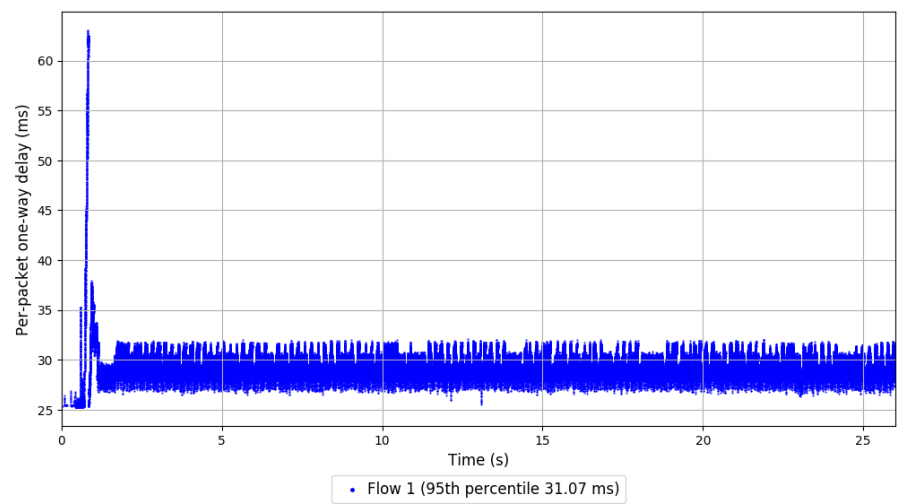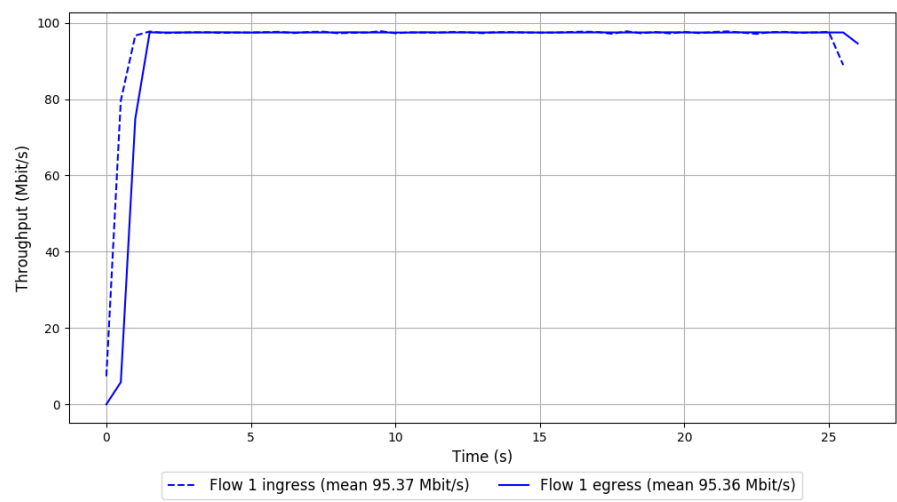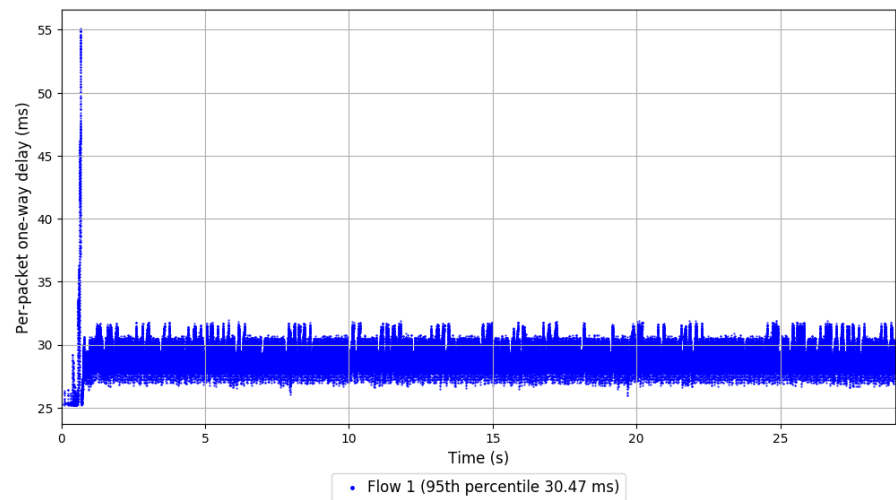
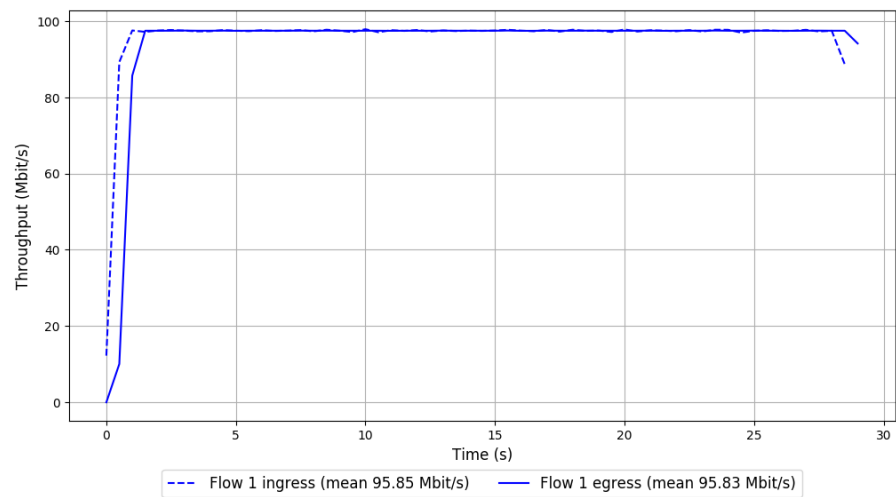Run 1: Report of Indigo-MusesC5 — Data Link

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-06-27 02:42:33
End at: 2019-06-27 02:43:03
Local clock offset: -0.693 ms
Remote clock offset: -3.636 ms


# Below is generated by plot.py at 2019-06-27 04:36:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 30.470 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 30.470 ms
Loss rate: 0.00%
```

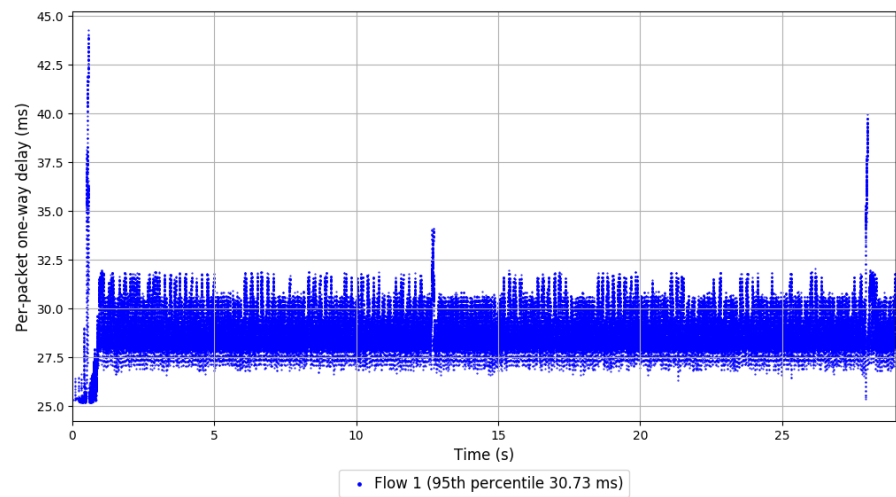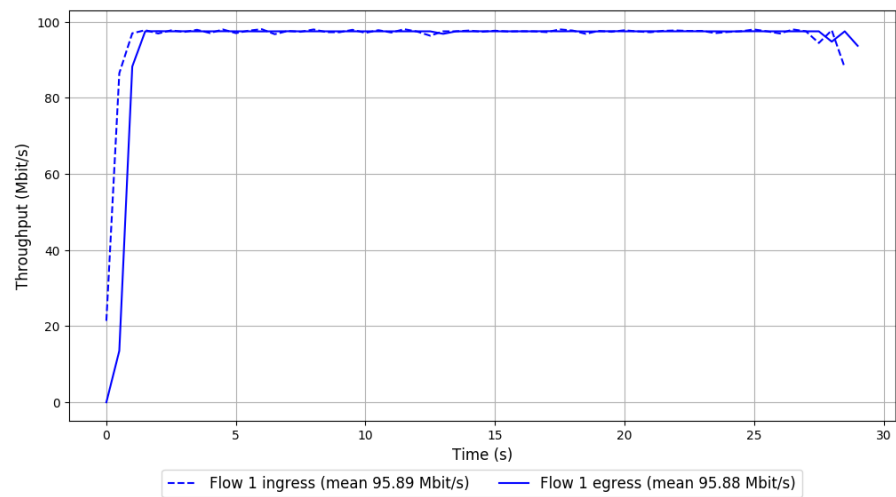Run 2: Report of Indigo-MusesC5 — Data Link

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-06-27 03:09:05
End at: 2019-06-27 03:09:35
Local clock offset: -0.255 ms
Remote clock offset: -3.249 ms


# Below is generated by plot.py at 2019-06-27 04:37:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.88 Mbit/s
95th percentile per-packet one-way delay: 30.733 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.88 Mbit/s
95th percentile per-packet one-way delay: 30.733 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC5 — Data Link

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-06-27 03:37:02
End at: 2019-06-27 03:37:32
Local clock offset: 0.043 ms
Remote clock offset: -2.866 ms


# Below is generated by plot.py at 2019-06-27 04:37:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 30.776 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 30.776 ms
Loss rate: 0.01%
```
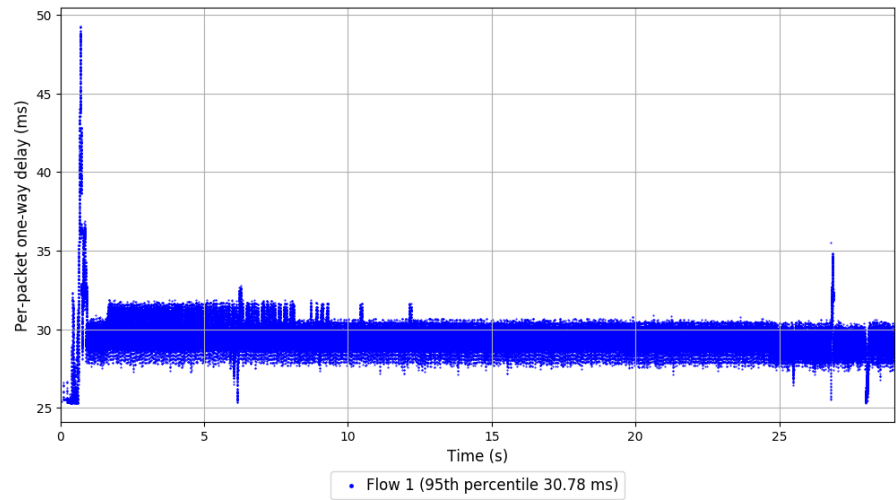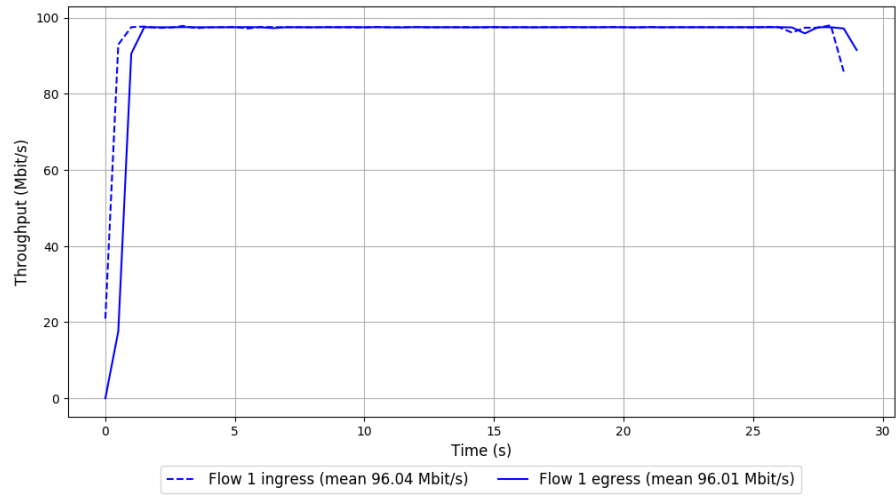
Run 4: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 96.04 Mbit/s)   Flow 1 egress (mean 96.01 Mbit/s)
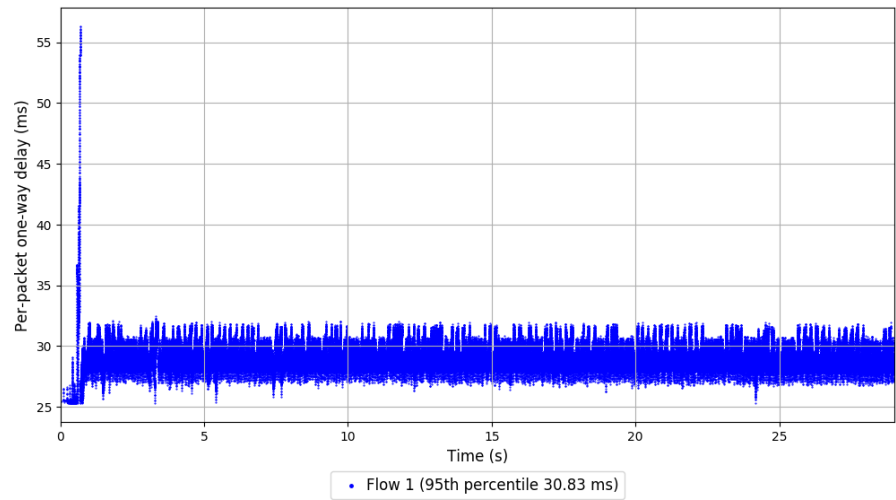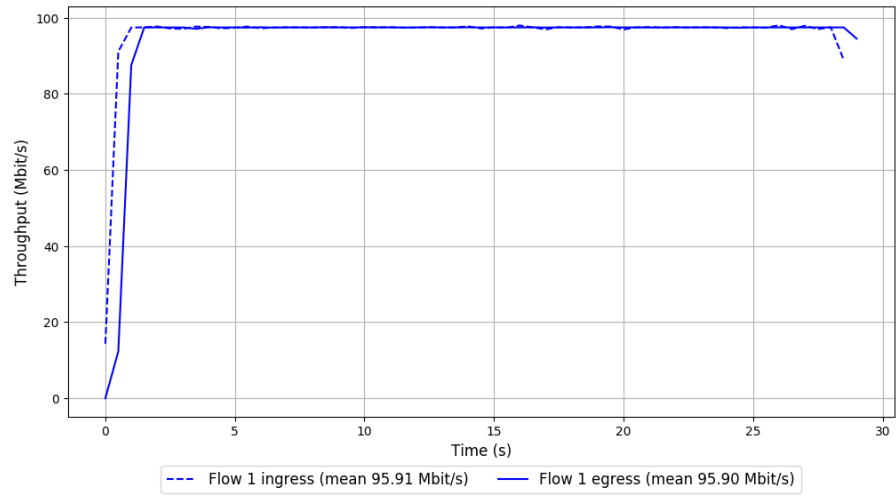

Flow 1 (95th percentile 30.78 ms)

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-06-27 04:03:56
End at: 2019-06-27 04:04:26
Local clock offset: -2.959 ms
Remote clock offset: -2.676 ms


# Below is generated by plot.py at 2019-06-27 04:37:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 30.832 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 30.832 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 95.91 Mbit/s)   Flow 1 egress (mean 95.90 Mbit/s)

• Flow 1 (95th percentile 30.83 ms)

```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-06-27 02:36:43
End at: 2019-06-27 02:37:13
Local clock offset: -0.61 ms
Remote clock offset: -3.721 ms


# Below is generated by plot.py at 2019-06-27 04:37:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 27.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 27.811 ms
Loss rate: 0.00%
```
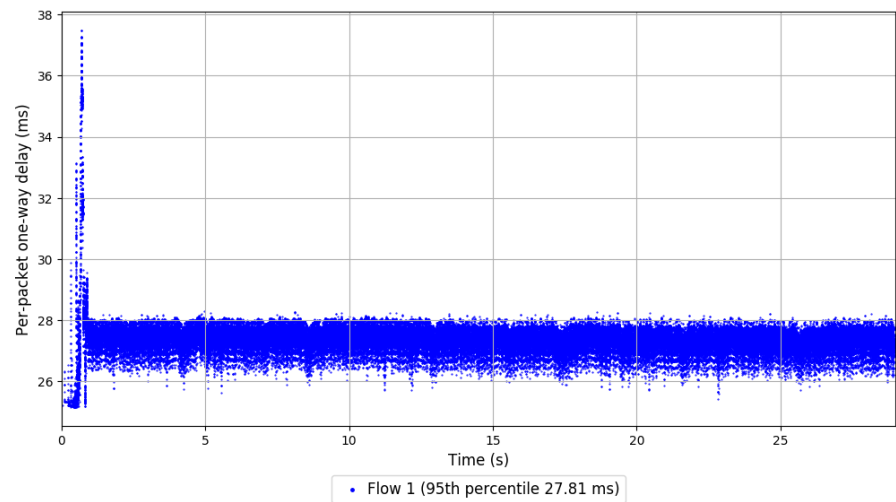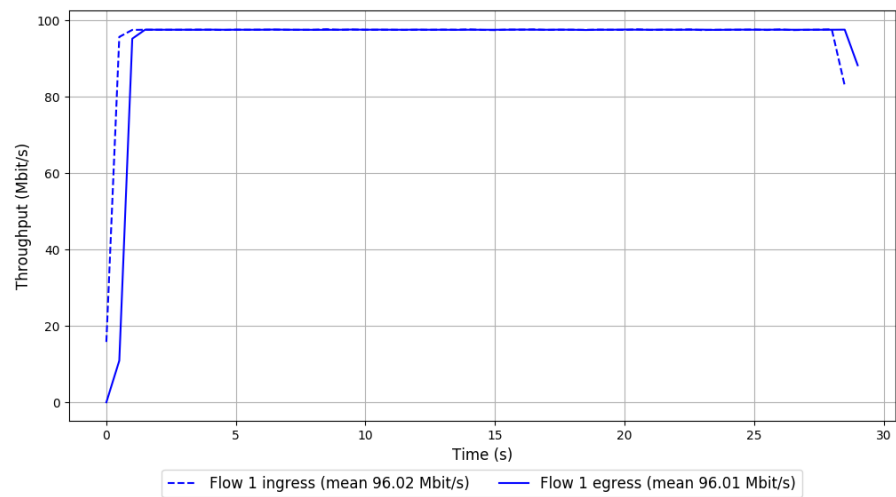
Run 1: Report of Indigo-MusesD — Data Link

```
Run 2: Statistics of Indigo-MusesD

Start at: 2019-06-27 03:03:13
End at: 2019-06-27 03:03:43
Local clock offset: -0.192 ms
Remote clock offset: -3.373 ms


# Below is generated by plot.py at 2019-06-27 04:37:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 27.871 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 27.871 ms
Loss rate: 0.01%
```
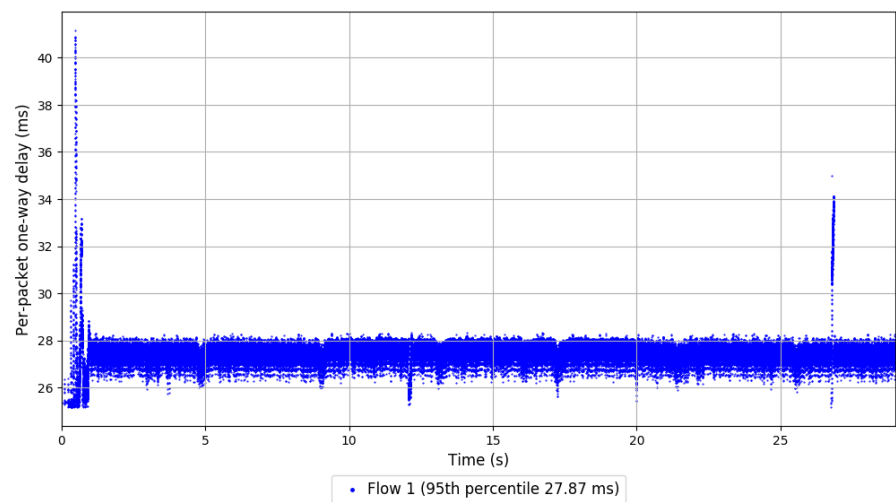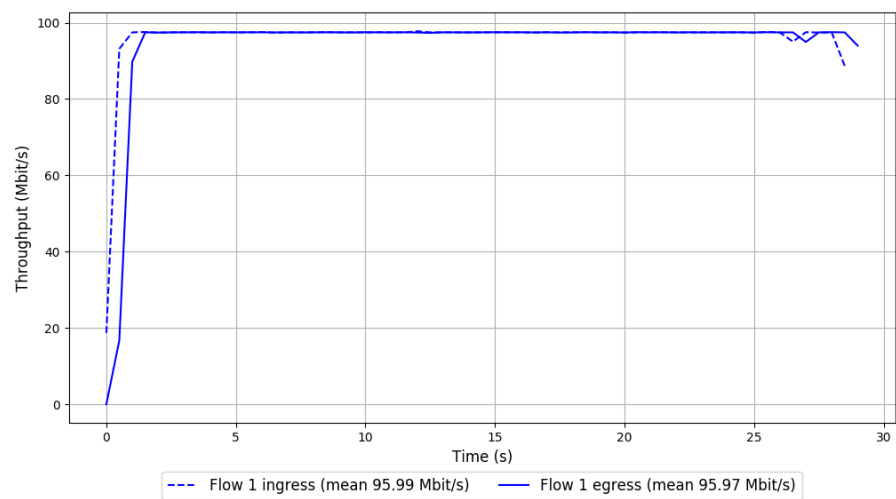
Run 2: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 95.99 Mbit/s) — — — Flow 1 egress (mean 95.97 Mbit/s)

• Flow 1 (95th percentile 27.87 ms)

```
Run 3: Statistics of Indigo-MusesD

Start at: 2019-06-27 03:30:55
End at: 2019-06-27 03:31:25
Local clock offset: -0.014 ms
Remote clock offset: -2.937 ms


# Below is generated by plot.py at 2019-06-27 04:37:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 28.022 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 28.022 ms
Loss rate: 0.00%
```
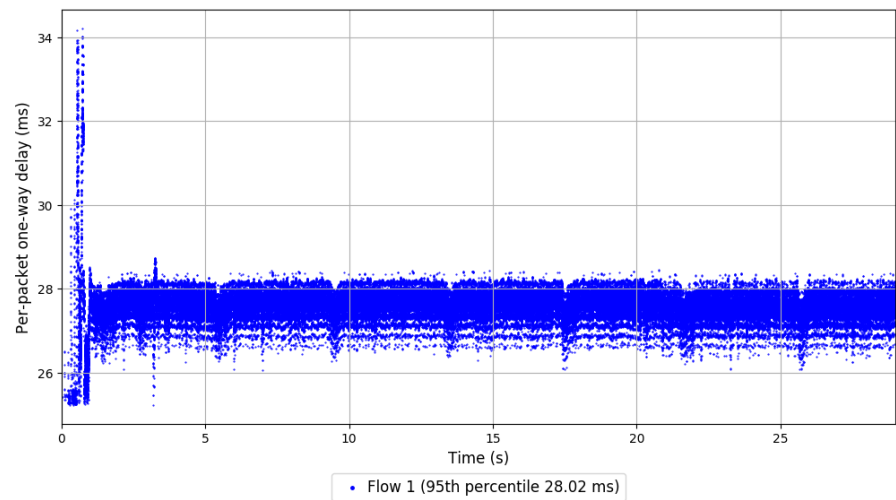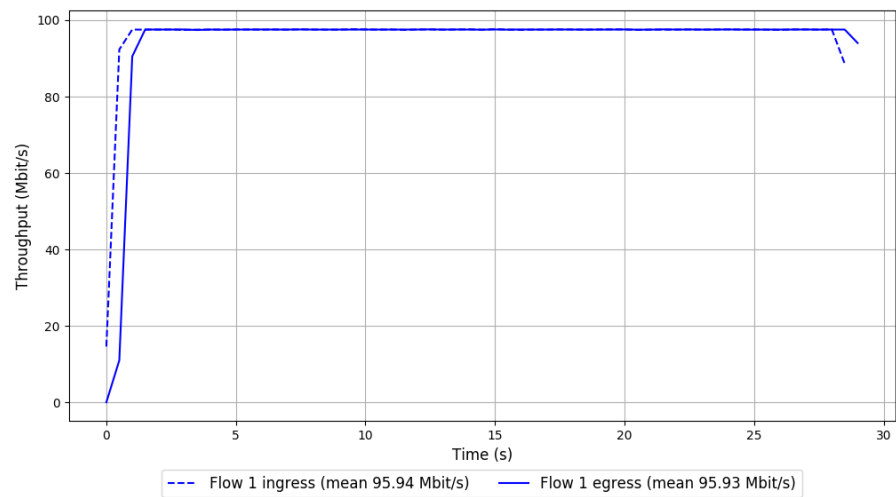
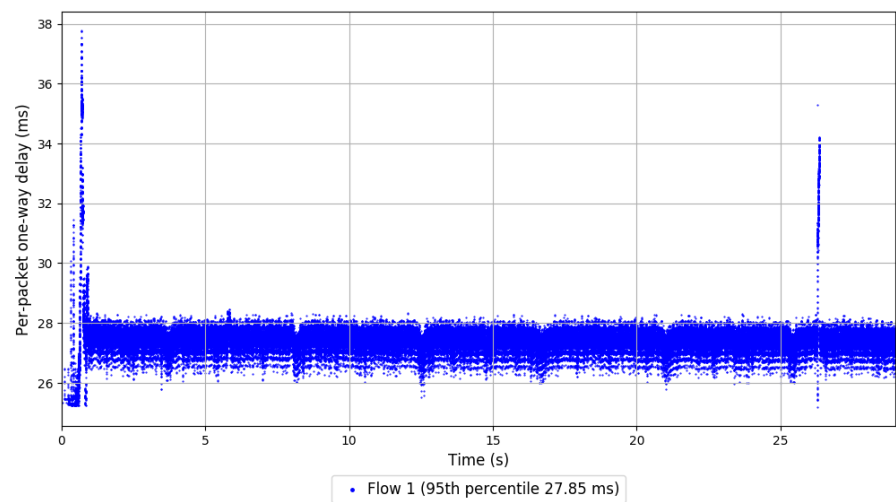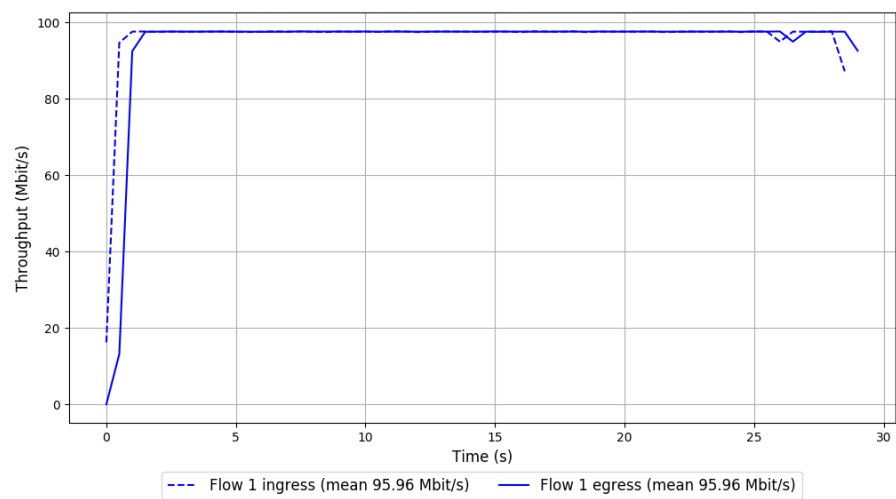Run 3: Report of Indigo-MusesD — Data Link

```
Run 4: Statistics of Indigo-MusesD

Start at: 2019-06-27 03:58:07
End at: 2019-06-27 03:58:37
Local clock offset: -2.253 ms
Remote clock offset: -2.775 ms


# Below is generated by plot.py at 2019-06-27 04:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 27.853 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 27.853 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 95.96 Mbit/s)   Flow 1 egress (mean 95.96 Mbit/s)

· Flow 1 (95th percentile 27.85 ms)

```
Run 5: Statistics of Indigo-MusesD

Start at: 2019-06-27 04:24:28
End at: 2019-06-27 04:24:58
Local clock offset: -3.511 ms
Remote clock offset: -3.006 ms


# Below is generated by plot.py at 2019-06-27 04:38:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 28.172 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 28.172 ms
Loss rate: 0.00%
```
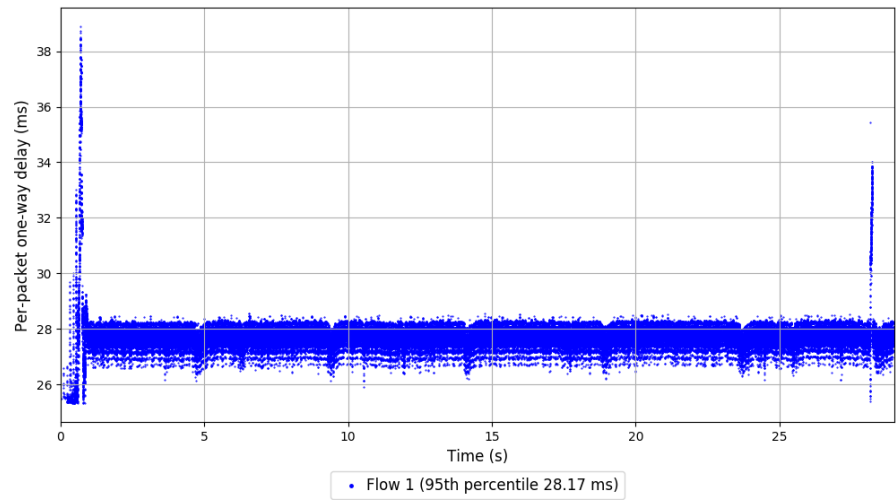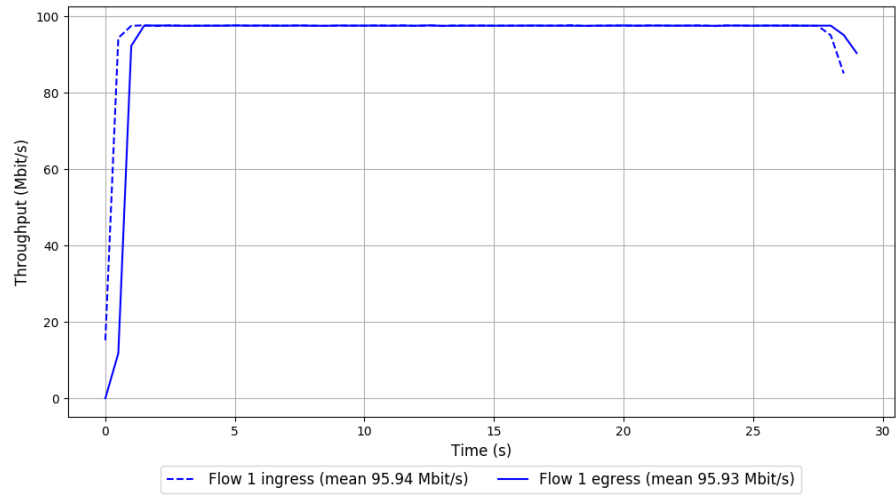
Run 5: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 95.94 Mbit/s) — Flow 1 egress (mean 95.93 Mbit/s)

Flow 1 (95th percentile 28.17 ms)

```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-06-27 02:25:50
End at: 2019-06-27 02:26:20
Local clock offset: -0.771 ms
Remote clock offset: -3.751 ms


# Below is generated by plot.py at 2019-06-27 04:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 32.773 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 32.773 ms
Loss rate: 0.62%
```
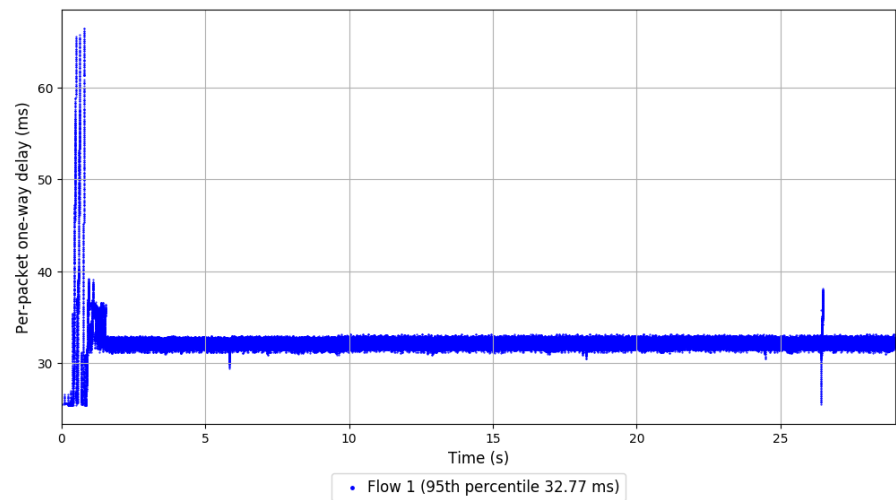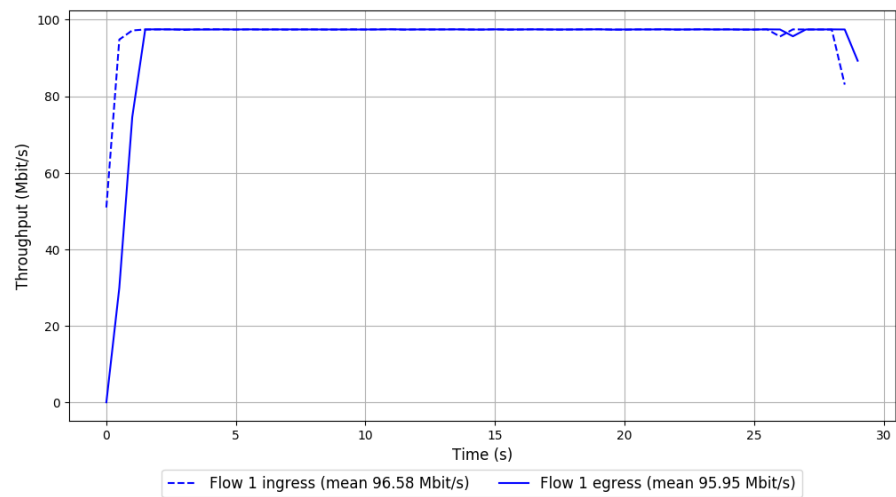
Run 1: Report of Indigo-MusesT — Data Link

```
Run 2: Statistics of Indigo-MusesT

Start at: 2019-06-27 02:52:15
End at: 2019-06-27 02:52:45
Local clock offset: -0.522 ms
Remote clock offset: -3.573 ms


# Below is generated by plot.py at 2019-06-27 04:38:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 32.560 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 32.560 ms
Loss rate: 0.78%
```
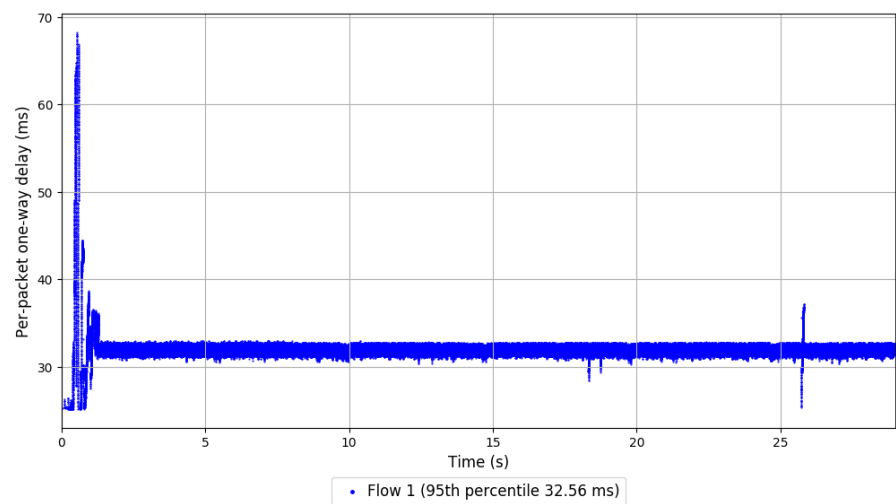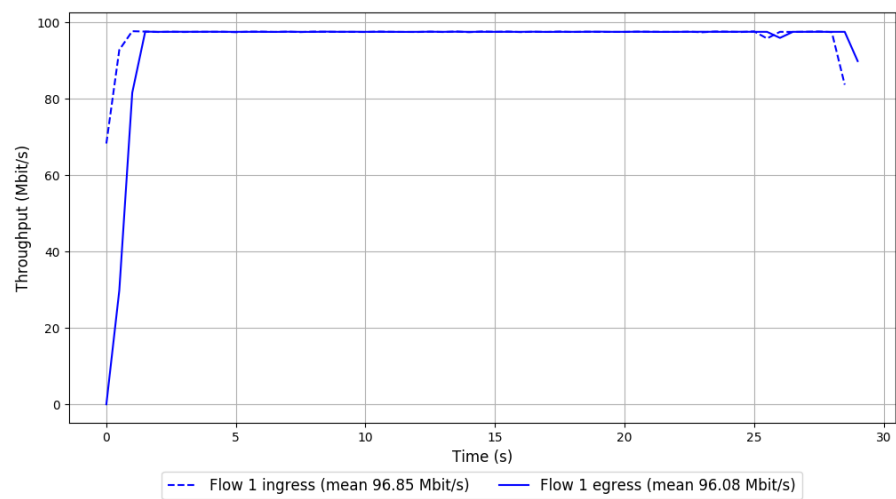
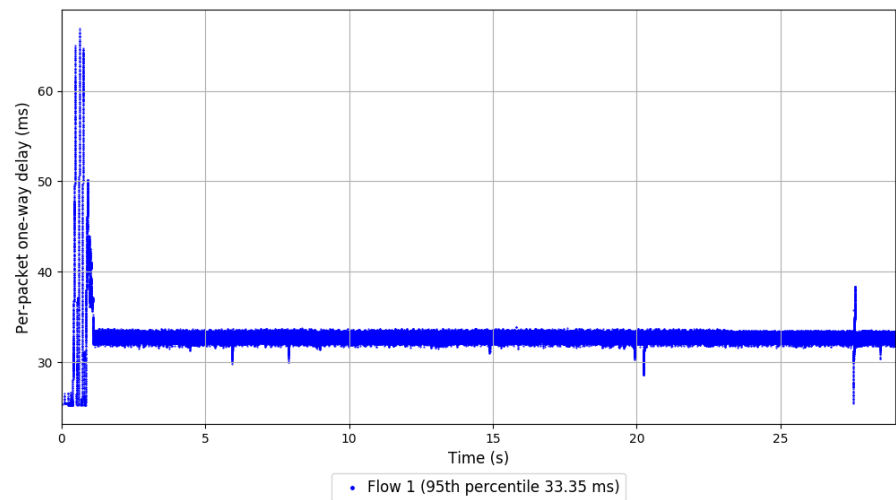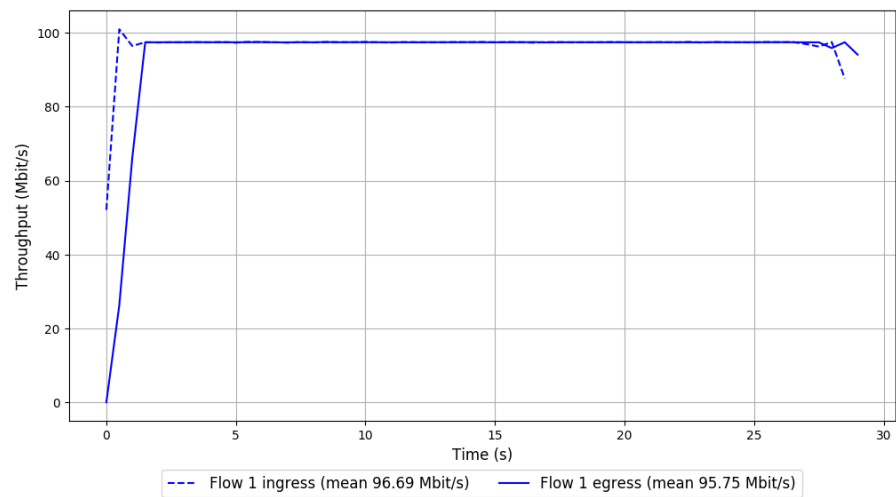Run 2: Report of Indigo-MusesT — Data Link

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```
Run 3: Statistics of Indigo-MusesT

Start at: 2019-06-27 03:19:10
End at: 2019-06-27 03:19:41
Local clock offset: -0.269 ms
Remote clock offset: -3.107 ms


# Below is generated by plot.py at 2019-06-27 04:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 33.349 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 33.349 ms
Loss rate: 0.95%
```

Run 3: Report of Indigo-MusesT — Data Link

```
Run 4: Statistics of Indigo-MusesT

Start at: 2019-06-27 03:47:03
End at: 2019-06-27 03:47:33
Local clock offset: -0.031 ms
Remote clock offset: -2.861 ms


# Below is generated by plot.py at 2019-06-27 04:38:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 32.611 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 32.611 ms
Loss rate: 0.61%
```
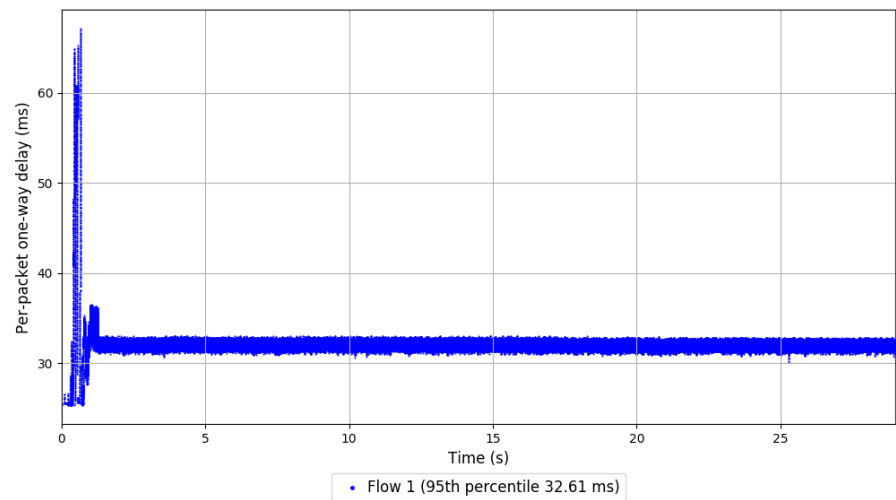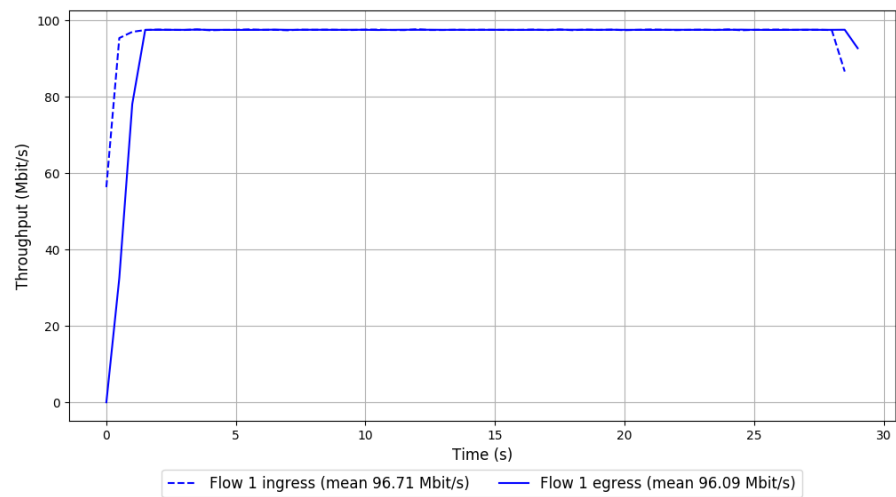
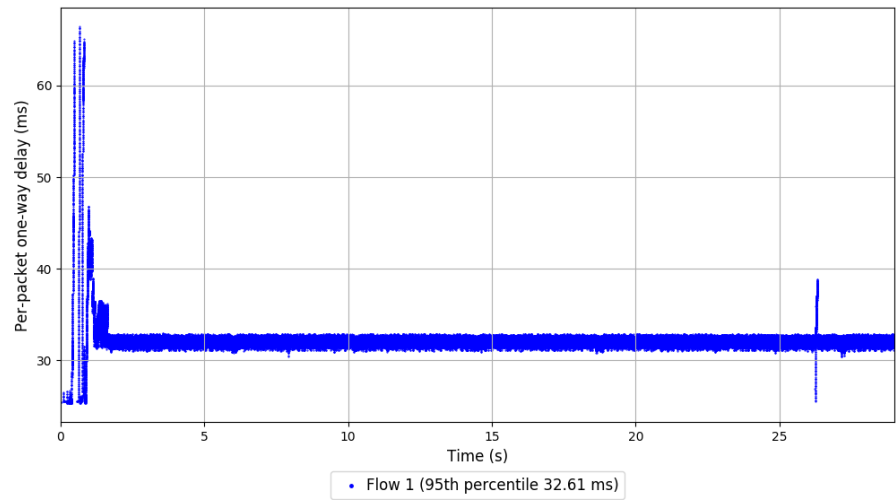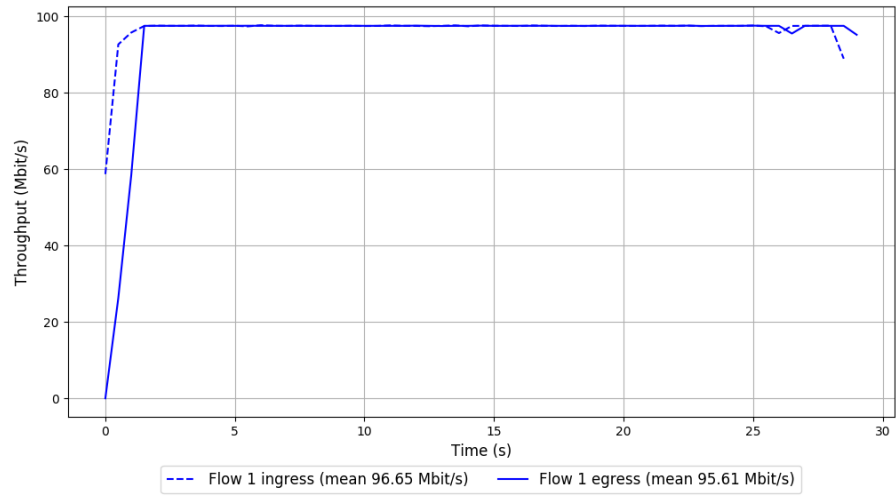# Run 4: Report of Indigo-MusesT — Data Link

```
Run 5: Statistics of Indigo-MusesT

Start at: 2019-06-27 04:13:35
End at: 2019-06-27 04:14:05
Local clock offset: -3.704 ms
Remote clock offset: -2.843 ms


# Below is generated by plot.py at 2019-06-27 04:38:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 32.607 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 32.607 ms
Loss rate: 1.05%
```

Run 5: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 96.65 Mbit/s)   Flow 1 egress (mean 95.61 Mbit/s)
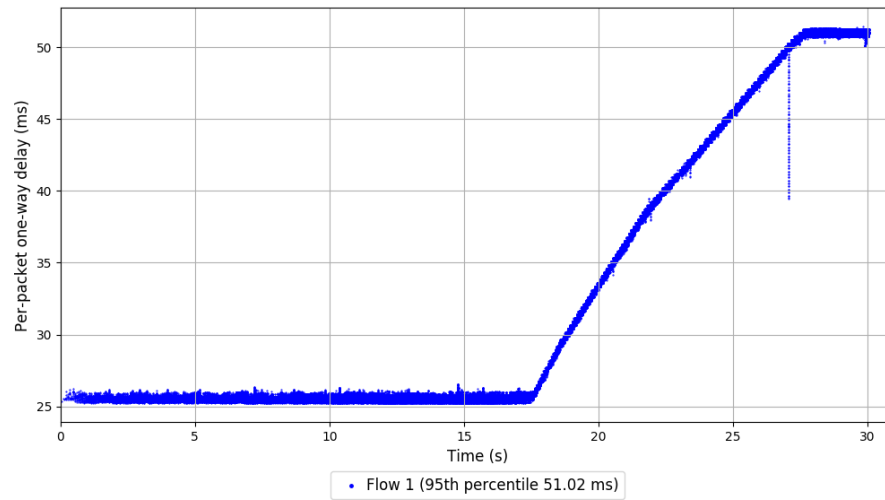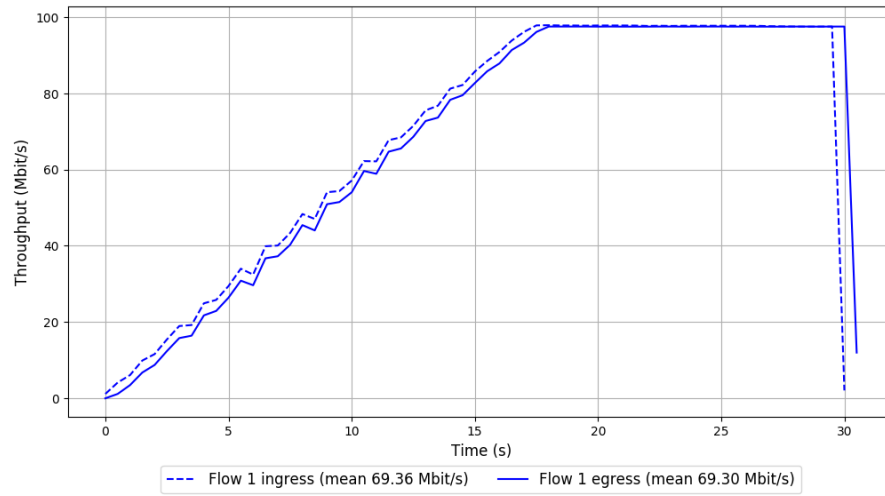

Flow 1 (95th percentile 32.61 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2019-06-27 02:35:30
End at: 2019-06-27 02:36:00
Local clock offset: -0.616 ms
Remote clock offset: -3.646 ms


# Below is generated by plot.py at 2019-06-27 04:38:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.30 Mbit/s
95th percentile per-packet one-way delay: 51.015 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.30 Mbit/s
95th percentile per-packet one-way delay: 51.015 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 69.36 Mbit/s) — — —   Flow 1 egress (mean 69.30 Mbit/s) ——————
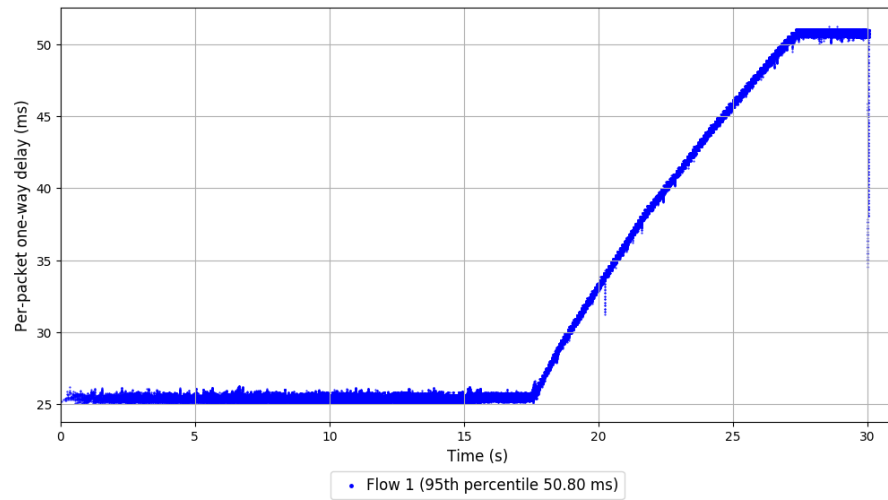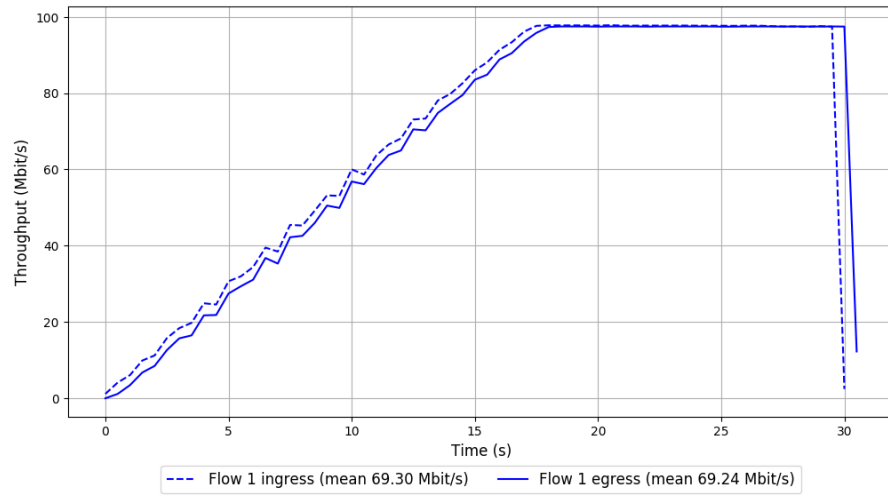

Flow 1 (95th percentile 51.02 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2019-06-27 03:01:59
End at: 2019-06-27 03:02:29
Local clock offset: -0.218 ms
Remote clock offset: -3.443 ms


# Below is generated by plot.py at 2019-06-27 04:38:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.24 Mbit/s
95th percentile per-packet one-way delay: 50.798 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.24 Mbit/s
95th percentile per-packet one-way delay: 50.798 ms
Loss rate: 0.00%
```
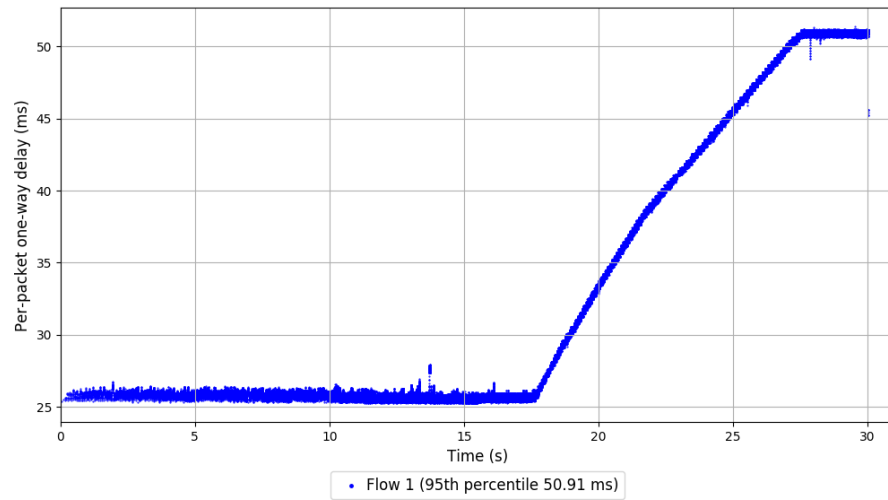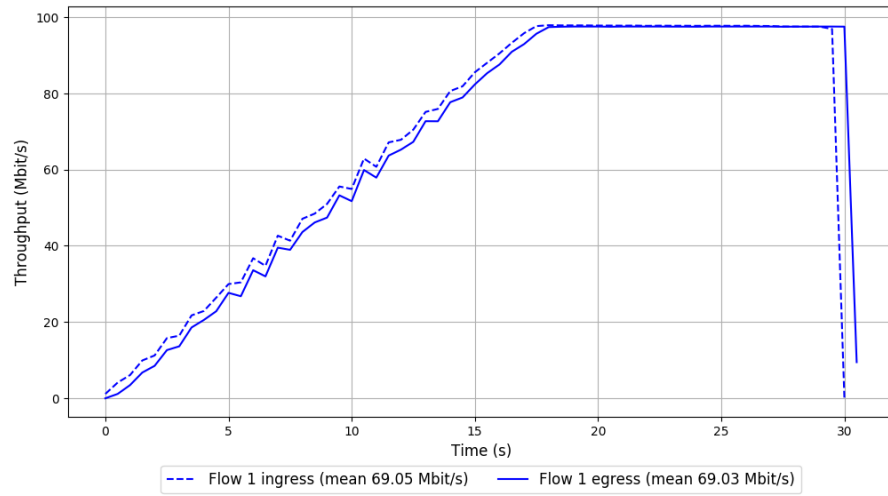
Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2019-06-27 03:29:29
End at: 2019-06-27 03:29:59
Local clock offset: -0.018 ms
Remote clock offset: -2.956 ms


# Below is generated by plot.py at 2019-06-27 04:39:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.03 Mbit/s
95th percentile per-packet one-way delay: 50.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.03 Mbit/s
95th percentile per-packet one-way delay: 50.915 ms
Loss rate: 0.00%
```
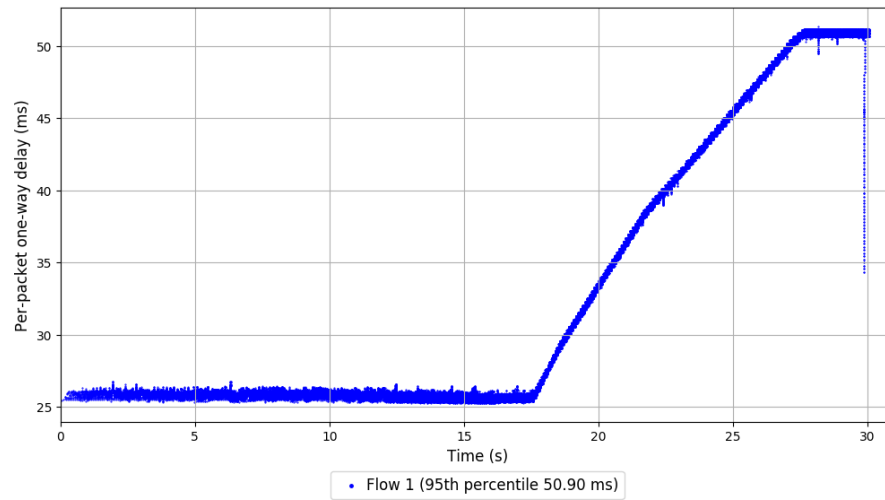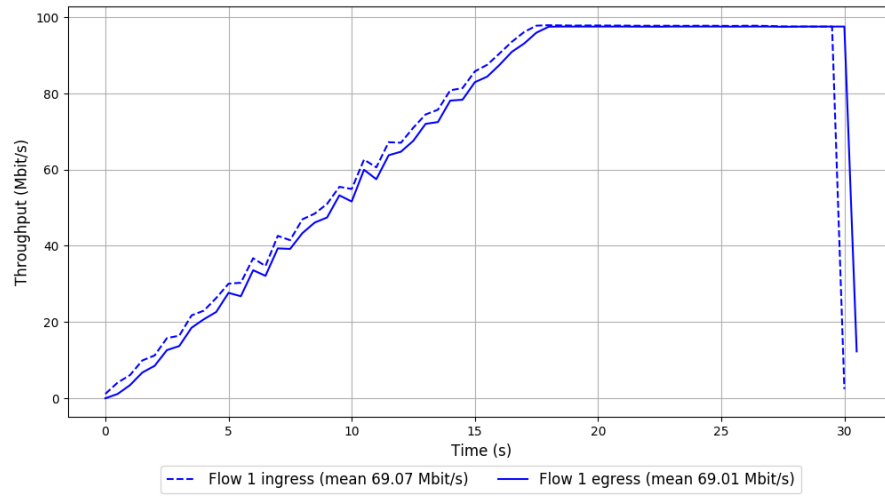
Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2019-06-27 03:56:53
End at: 2019-06-27 03:57:23
Local clock offset: -2.105 ms
Remote clock offset: -2.784 ms


# Below is generated by plot.py at 2019-06-27 04:39:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.01 Mbit/s
95th percentile per-packet one-way delay: 50.900 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.01 Mbit/s
95th percentile per-packet one-way delay: 50.900 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 69.07 Mbit/s) ---- Flow 1 egress (mean 69.01 Mbit/s) ——
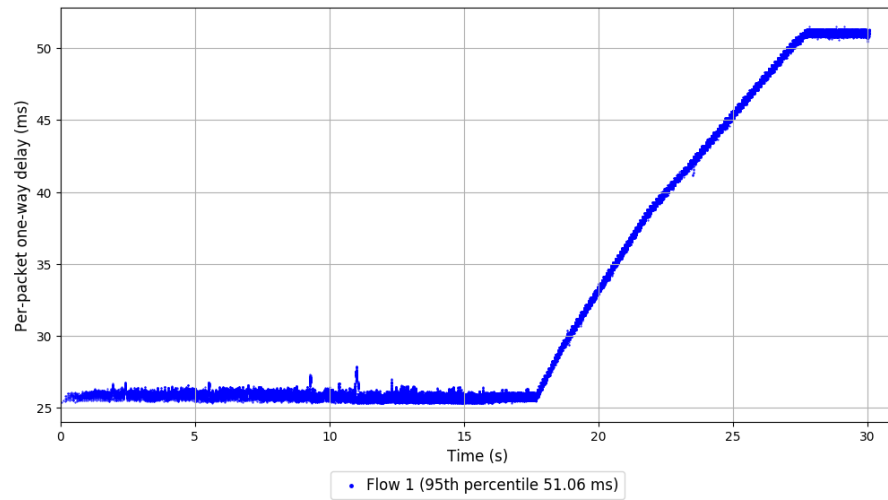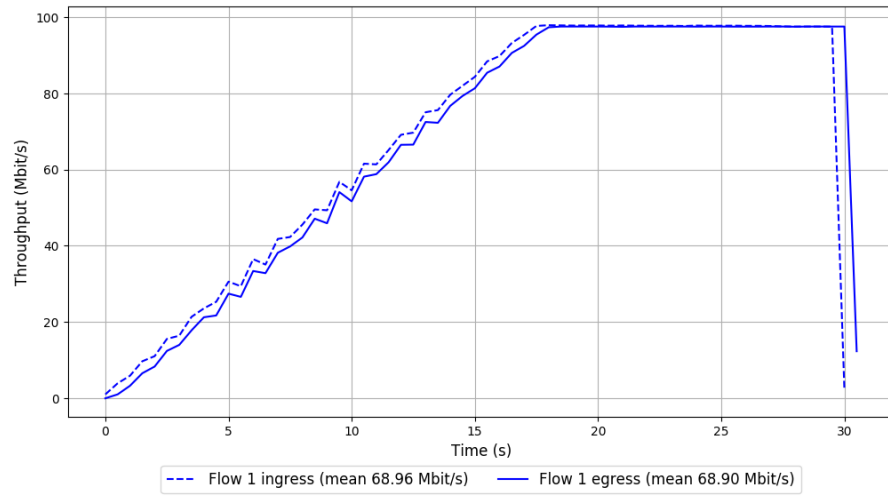

Flow 1 (95th percentile 50.90 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2019-06-27 04:23:15
End at: 2019-06-27 04:23:45
Local clock offset: -3.551 ms
Remote clock offset: -2.972 ms

# Below is generated by plot.py at 2019-06-27 04:39:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.90 Mbit/s
95th percentile per-packet one-way delay: 51.056 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.90 Mbit/s
95th percentile per-packet one-way delay: 51.056 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-06-27 02:39:05
End at: 2019-06-27 02:39:35
Local clock offset: -0.644 ms
Remote clock offset: -3.724 ms
```

Run 1: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses_DecisionTree

Start at: 2019-06-27 03:05:38
End at: 2019-06-27 03:06:08
Local clock offset: -0.22 ms
Remote clock offset: -3.267 ms

Run 2: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses_DecisionTree

Start at: 2019-06-27 03:33:29
End at: 2019-06-27 03:33:59
Local clock offset: 0.037 ms
Remote clock offset: -2.959 ms

Run 3: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTree

Start at: 2019-06-27 04:00:30
End at: 2019-06-27 04:01:00
Local clock offset: -2.583 ms
Remote clock offset: -2.715 ms

Run 4: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-06-27 04:26:50
End at: 2019-06-27 04:27:20
Local clock offset: -3.45 ms
Remote clock offset: -3.162 ms
```

Run 5: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

```
Run 1: Statistics of PCC-Allegro

Start at: 2019-06-27 02:24:40
End at: 2019-06-27 02:25:10
Local clock offset: -0.852 ms
Remote clock offset: -3.725 ms


# Below is generated by plot.py at 2019-06-27 04:39:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 31.889 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 31.889 ms
Loss rate: 0.74%
```
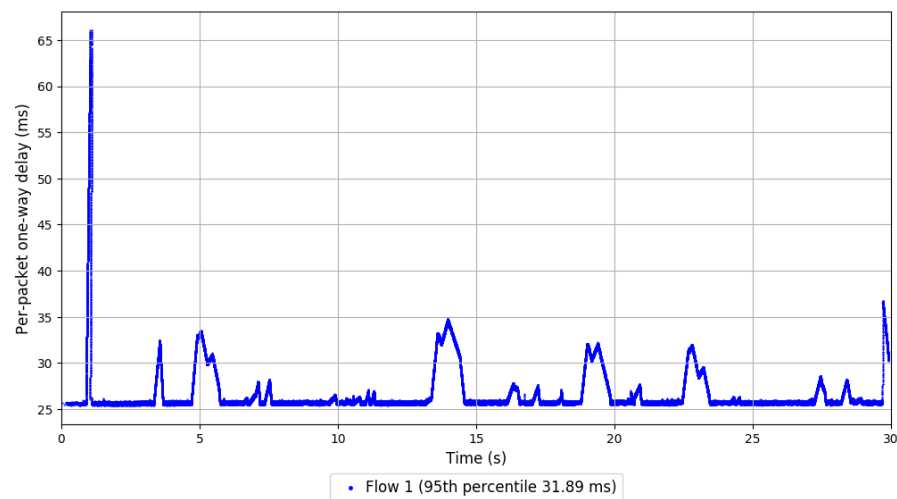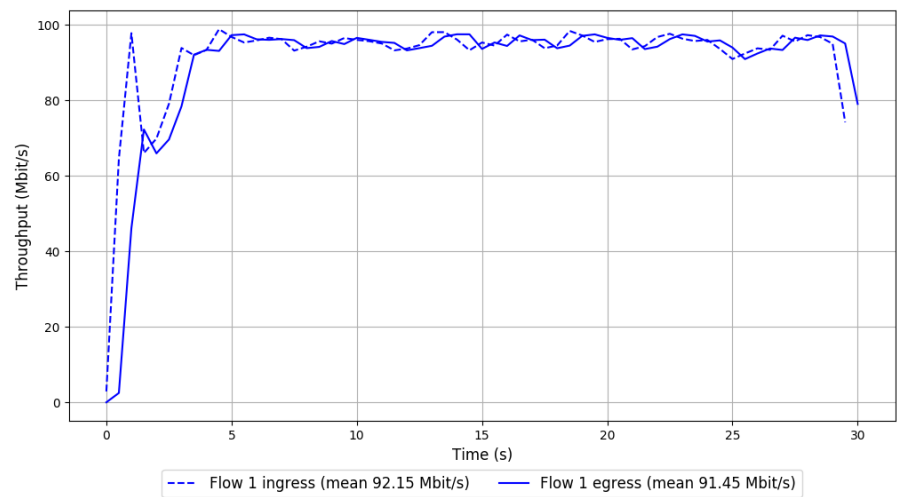
Run 1: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 92.15 Mbit/s)   Flow 1 egress (mean 91.45 Mbit/s)

Flow 1 (95th percentile 31.89 ms)

```
Run 2: Statistics of PCC-Allegro

Start at: 2019-06-27 02:51:03
End at: 2019-06-27 02:51:33
Local clock offset: -0.608 ms
Remote clock offset: -3.587 ms


# Below is generated by plot.py at 2019-06-27 04:40:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.08 Mbit/s
95th percentile per-packet one-way delay: 30.577 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 91.08 Mbit/s
95th percentile per-packet one-way delay: 30.577 ms
Loss rate: 0.71%
```
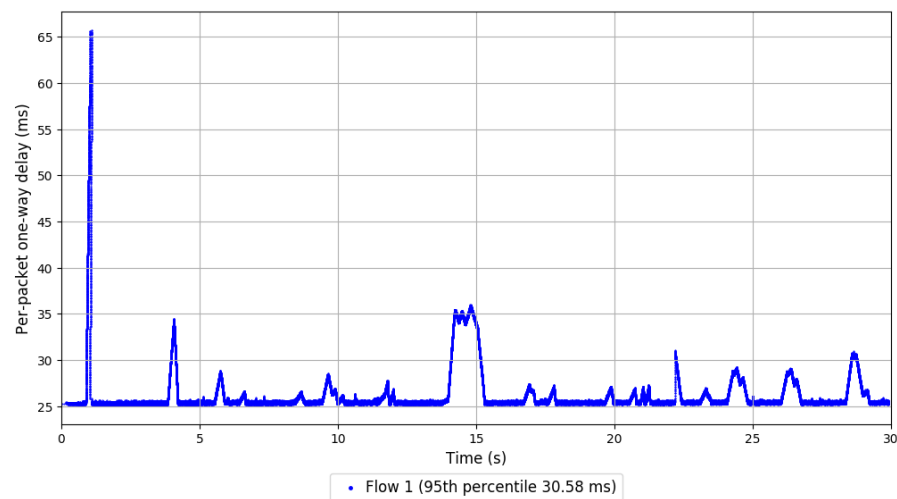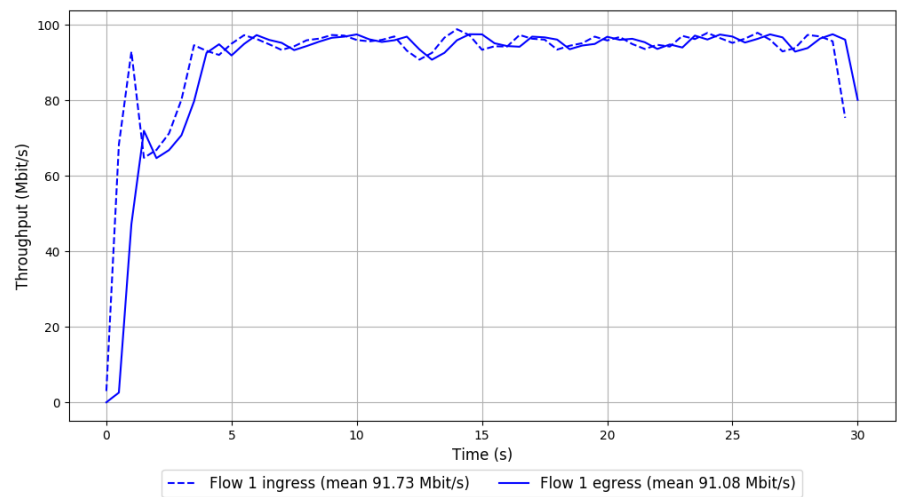
Run 2: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.73 Mbit/s)   Flow 1 egress (mean 91.08 Mbit/s)

Flow 1 (95th percentile 30.58 ms)

```
Run 3: Statistics of PCC-Allegro

Start at: 2019-06-27 03:17:54
End at: 2019-06-27 03:18:24
Local clock offset: -0.309 ms
Remote clock offset: -3.09 ms


# Below is generated by plot.py at 2019-06-27 04:40:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.29 Mbit/s
95th percentile per-packet one-way delay: 29.338 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 91.29 Mbit/s
95th percentile per-packet one-way delay: 29.338 ms
Loss rate: 0.73%
```
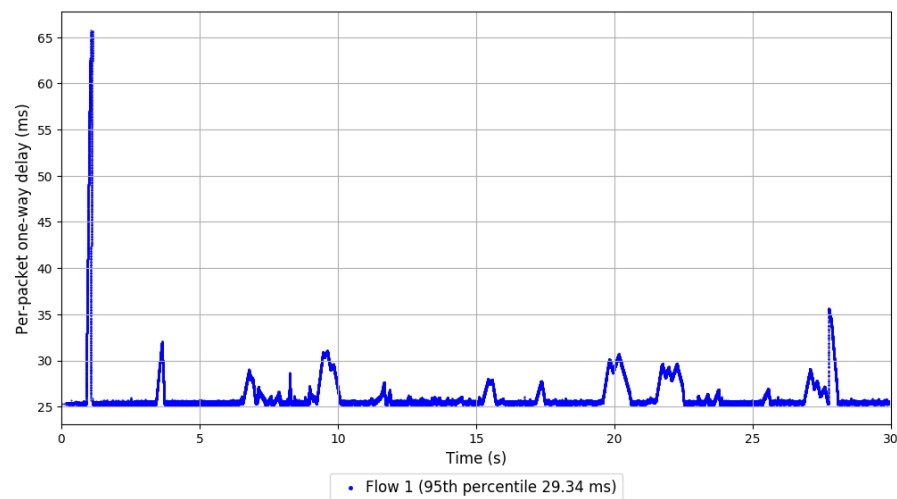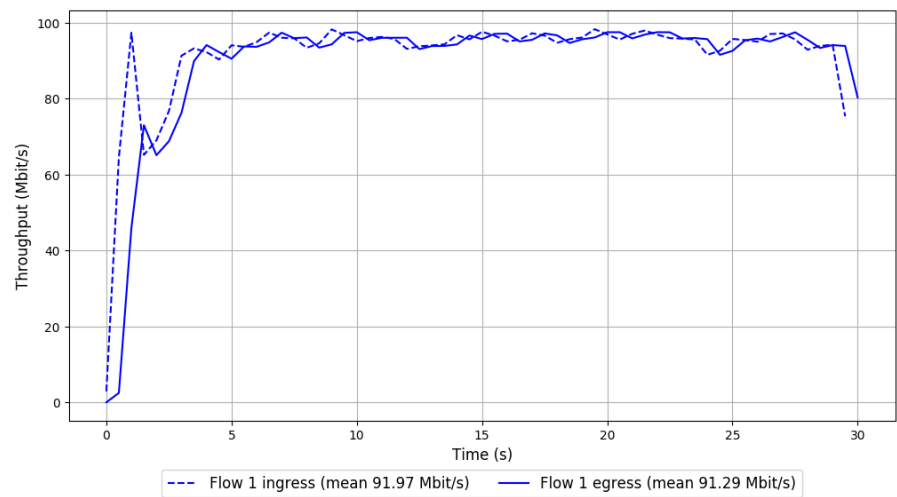
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.97 Mbit/s) --- Flow 1 egress (mean 91.29 Mbit/s)
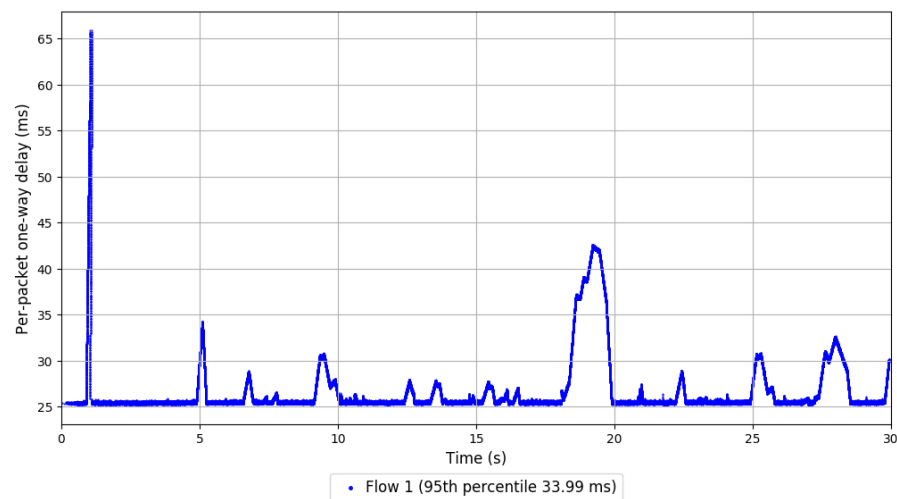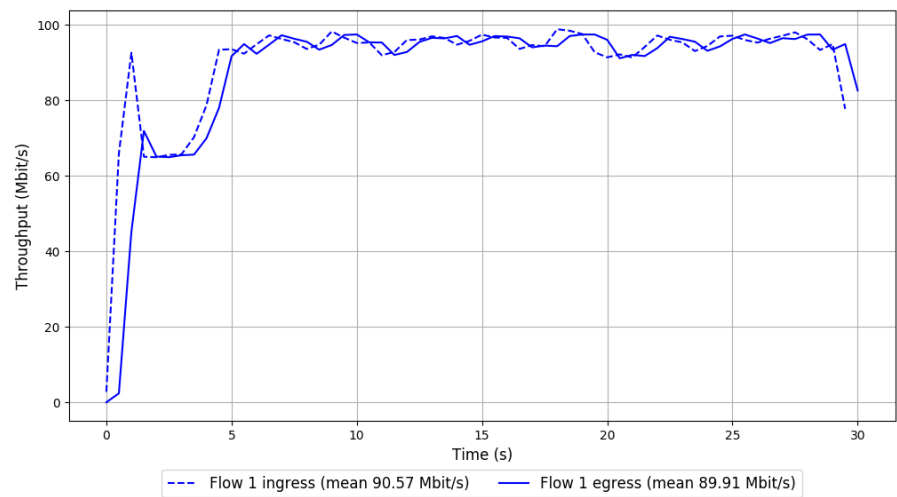

Flow 1 (95th percentile 29.34 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2019-06-27 03:45:51
End at: 2019-06-27 03:46:21
Local clock offset: -0.006 ms
Remote clock offset: -2.884 ms


# Below is generated by plot.py at 2019-06-27 04:40:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.91 Mbit/s
95th percentile per-packet one-way delay: 33.995 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 89.91 Mbit/s
95th percentile per-packet one-way delay: 33.995 ms
Loss rate: 0.71%
```

Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 90.57 Mbit/s)   Flow 1 egress (mean 89.91 Mbit/s)

Flow 1 (95th percentile 33.99 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2019-06-27 04:12:22
End at: 2019-06-27 04:12:53
Local clock offset: -3.597 ms
Remote clock offset: -2.85 ms


# Below is generated by plot.py at 2019-06-27 04:40:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 29.264 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 29.264 ms
Loss rate: 0.73%
```
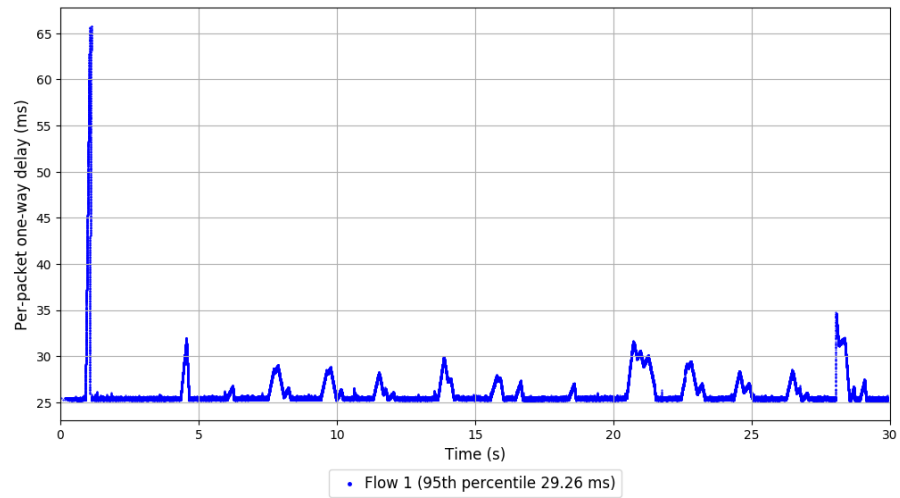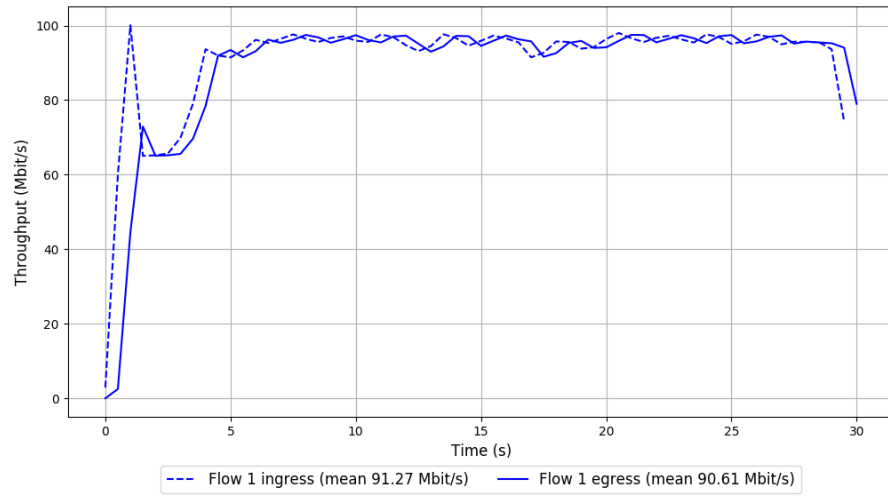
Run 5: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.27 Mbit/s) --- Flow 1 egress (mean 90.61 Mbit/s)

Flow 1 (95th percentile 29.26 ms)
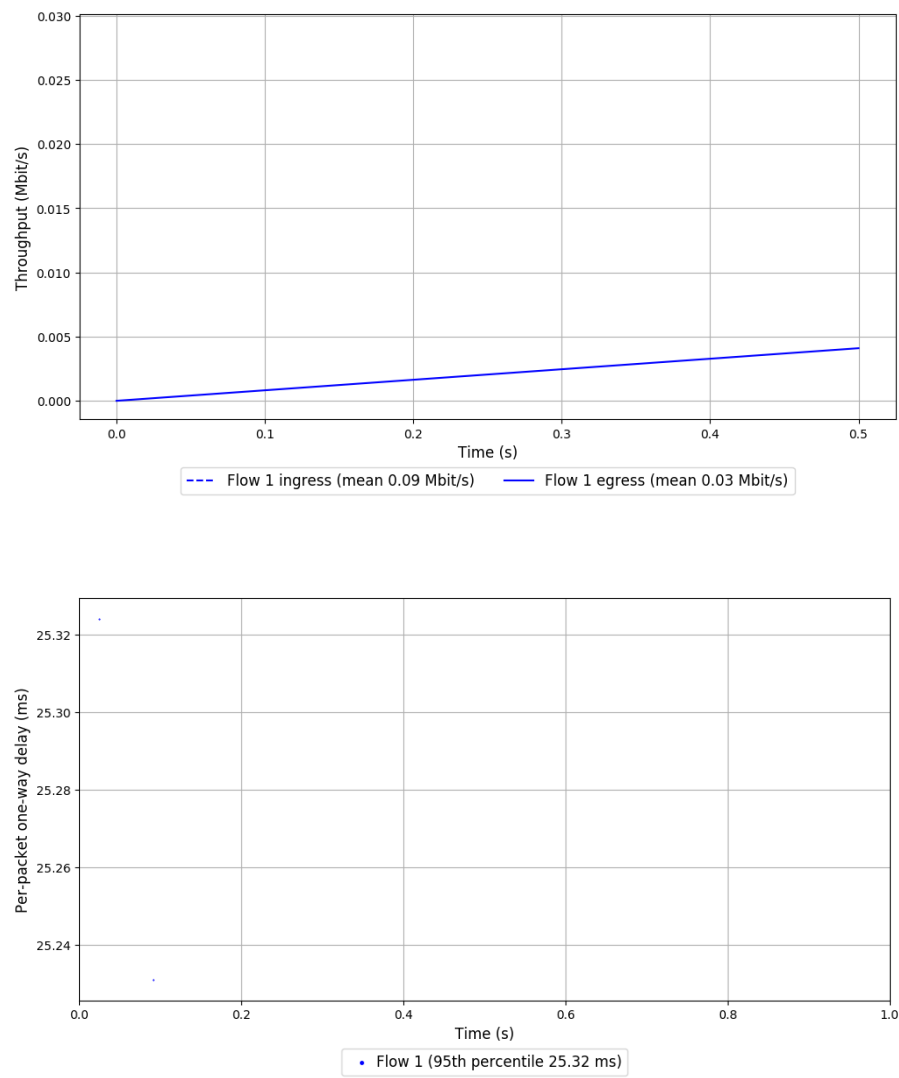
```
Run 1: Statistics of PCC-Expr

Start at: 2019-06-27 02:31:55
End at: 2019-06-27 02:32:25
Local clock offset: -0.609 ms
Remote clock offset: -3.794 ms
```

Run 1: Report of PCC-Expr — Data Link

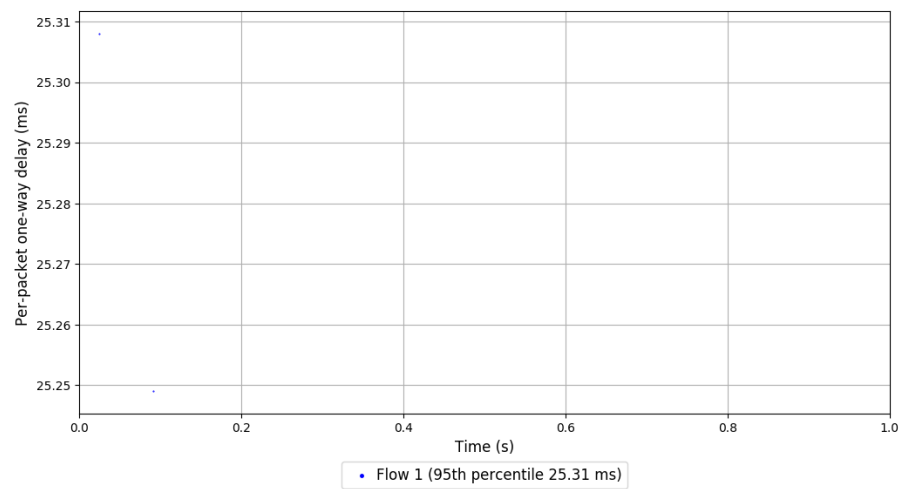Flow 1 ingress (mean 0.09 Mbit/s)   Flow 1 egress (mean 0.03 Mbit/s)

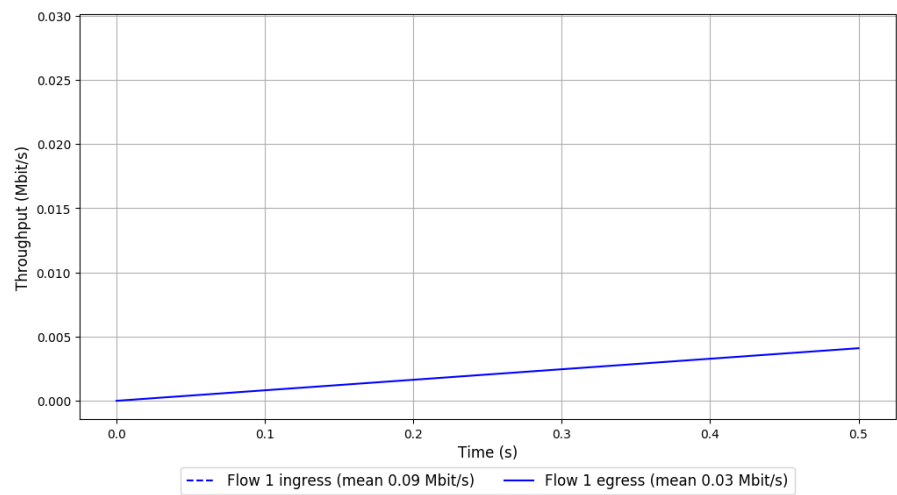Flow 1 (95th percentile 25.32 ms)

```
Run 2: Statistics of PCC-Expr

Start at: 2019-06-27 02:58:23
End at: 2019-06-27 02:58:53
Local clock offset: -0.297 ms
Remote clock offset: -3.407 ms
```

Run 2: Report of PCC-Expr — Data Link
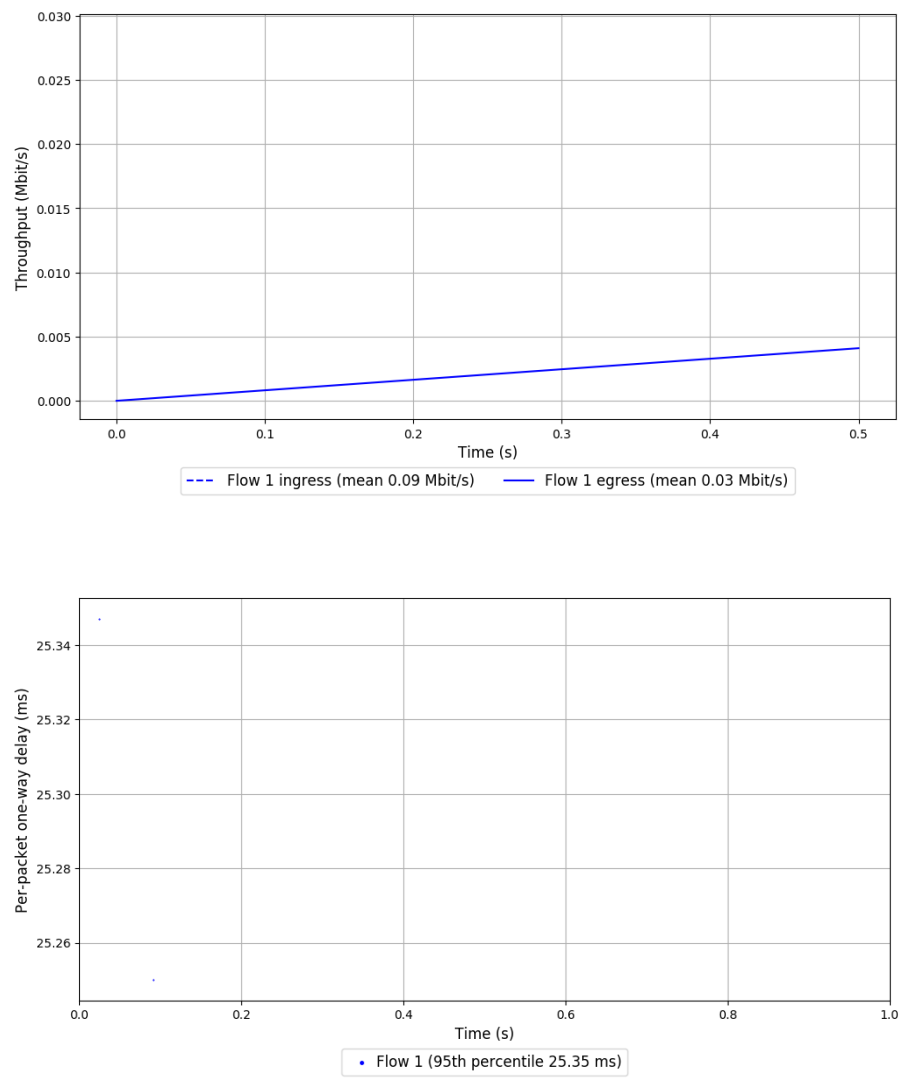
```
Run 3: Statistics of PCC-Expr

Start at: 2019-06-27 03:25:32
End at: 2019-06-27 03:26:02
Local clock offset: -0.066 ms
Remote clock offset: -3.035 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)

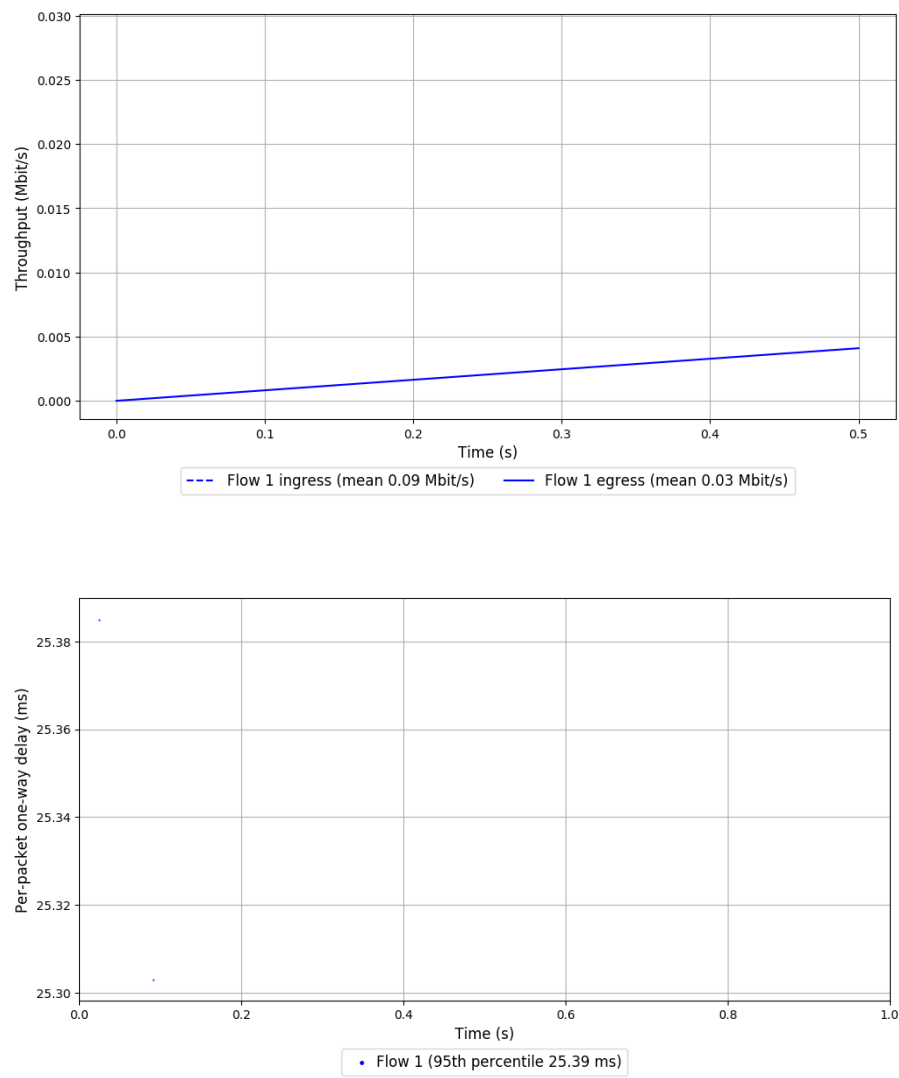Flow 1 (95th percentile 25.35 ms)

```
Run 4: Statistics of PCC-Expr

Start at: 2019-06-27 03:53:05
End at: 2019-06-27 03:53:35
Local clock offset: -1.379 ms
Remote clock offset: -2.767 ms
```

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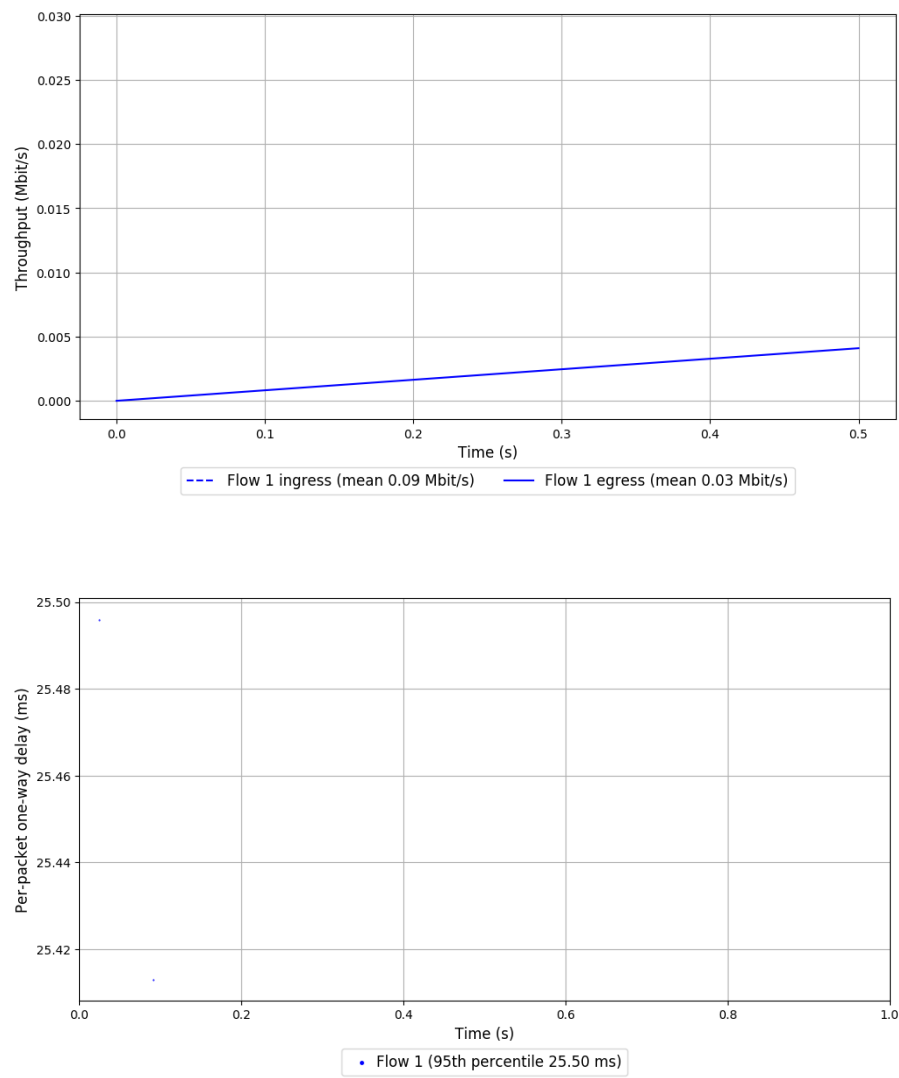
```
Run 5: Statistics of PCC-Expr

Start at: 2019-06-27 04:19:38
End at: 2019-06-27 04:20:08
Local clock offset: -3.853 ms
Remote clock offset: -2.985 ms
```

Run 5: Report of PCC-Expr — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2019-06-27 02:23:30
End at: 2019-06-27 02:24:00
Local clock offset: -0.922 ms
Remote clock offset: -3.724 ms


# Below is generated by plot.py at 2019-06-27 04:40:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.69 Mbit/s
95th percentile per-packet one-way delay: 54.206 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 77.69 Mbit/s
95th percentile per-packet one-way delay: 54.206 ms
Loss rate: 1.11%
```
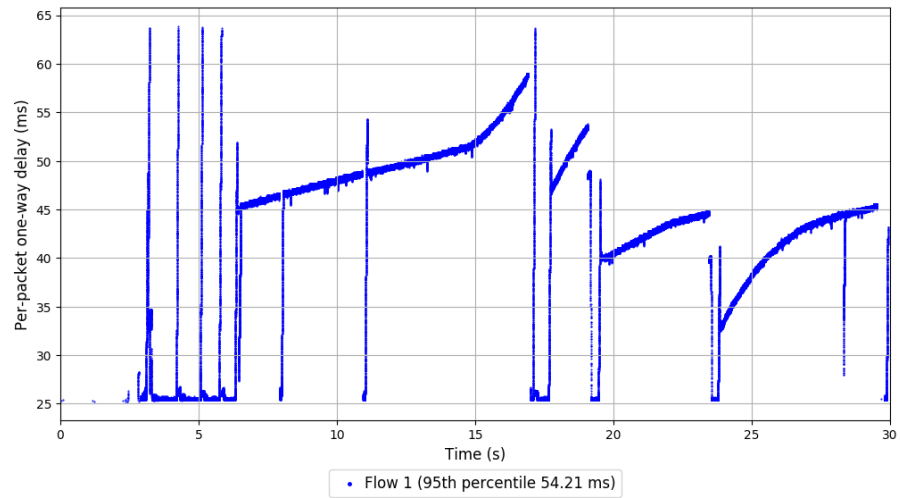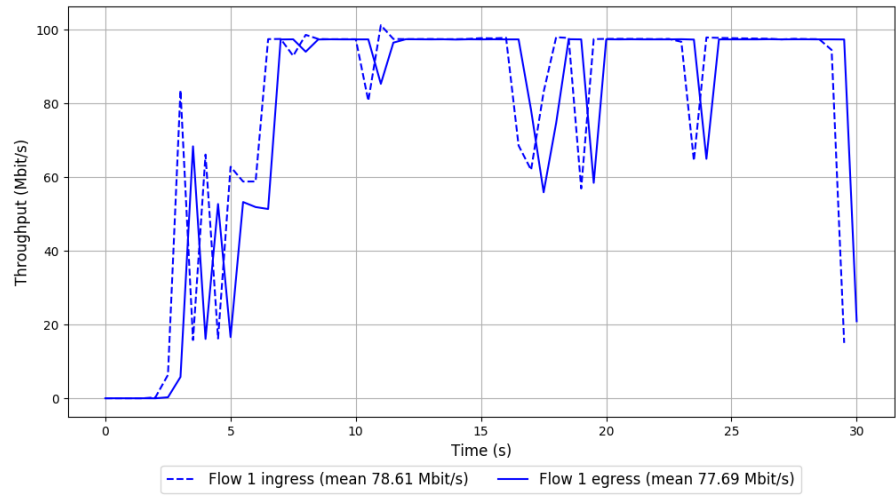
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2019-06-27 02:49:48
End at: 2019-06-27 02:50:18
Local clock offset: -0.691 ms
Remote clock offset: -3.563 ms


# Below is generated by plot.py at 2019-06-27 04:40:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.37 Mbit/s
95th percentile per-packet one-way delay: 54.990 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 85.37 Mbit/s
95th percentile per-packet one-way delay: 54.990 ms
Loss rate: 0.76%
```
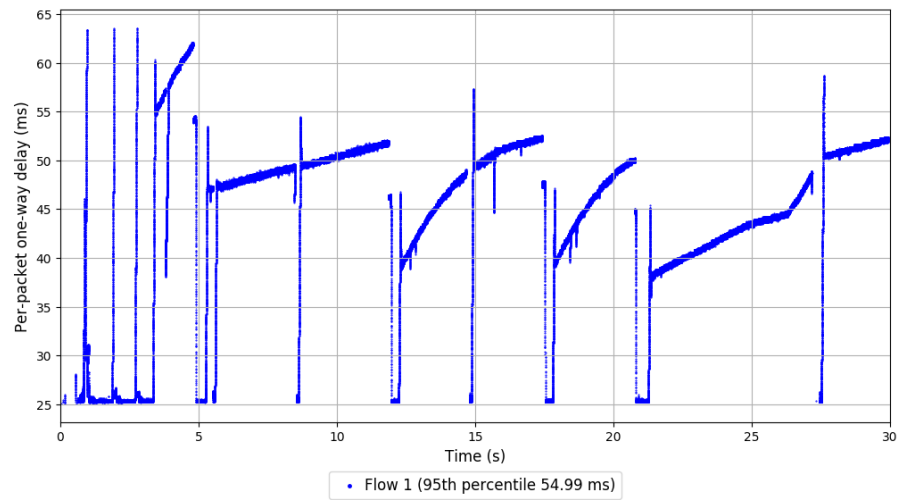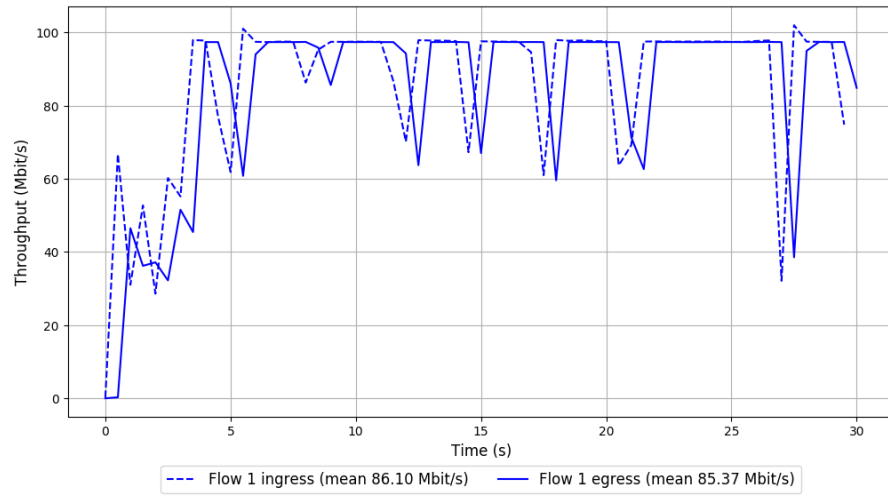
Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 86.10 Mbit/s)   Flow 1 egress (mean 85.37 Mbit/s)

Flow 1 (95th percentile 54.99 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2019-06-27 03:16:38
End at: 2019-06-27 03:17:08
Local clock offset: -0.283 ms
Remote clock offset: -3.14 ms


# Below is generated by plot.py at 2019-06-27 04:40:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.69 Mbit/s
95th percentile per-packet one-way delay: 59.033 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 84.69 Mbit/s
95th percentile per-packet one-way delay: 59.033 ms
Loss rate: 0.96%
```
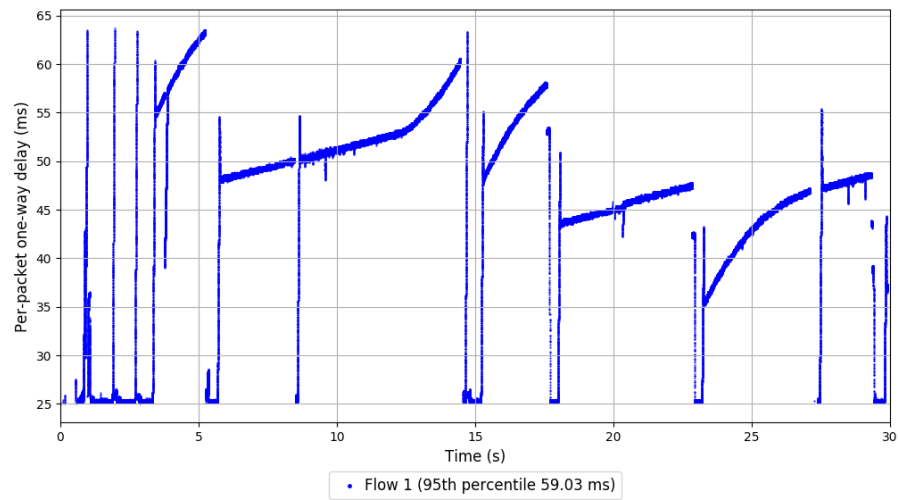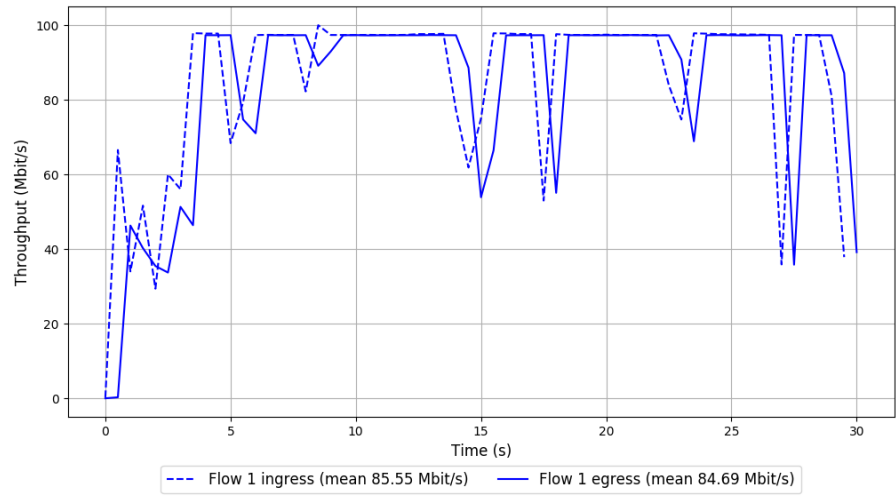
Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 85.55 Mbit/s) Flow 1 egress (mean 84.69 Mbit/s)

Flow 1 (95th percentile 59.03 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2019-06-27 03:44:37
End at: 2019-06-27 03:45:07
Local clock offset: 0.006 ms
Remote clock offset: -2.873 ms


# Below is generated by plot.py at 2019-06-27 04:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.48 Mbit/s
95th percentile per-packet one-way delay: 59.980 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 84.48 Mbit/s
95th percentile per-packet one-way delay: 59.980 ms
Loss rate: 0.90%
```
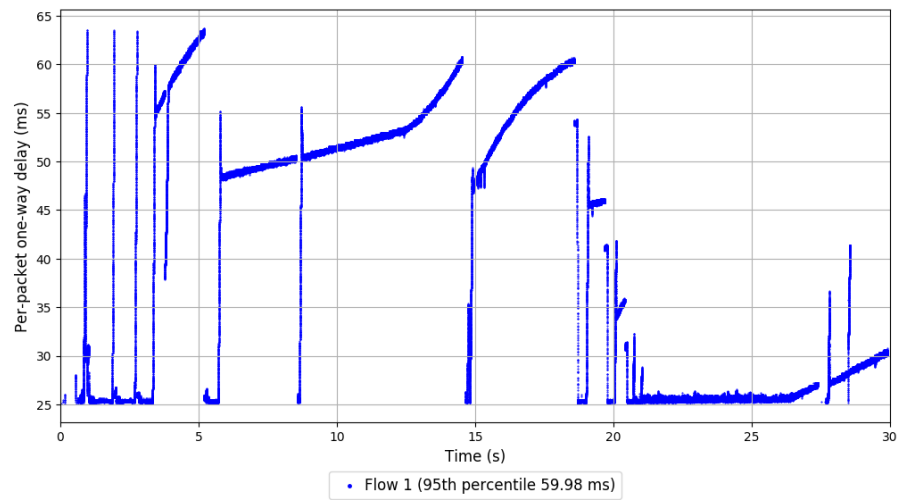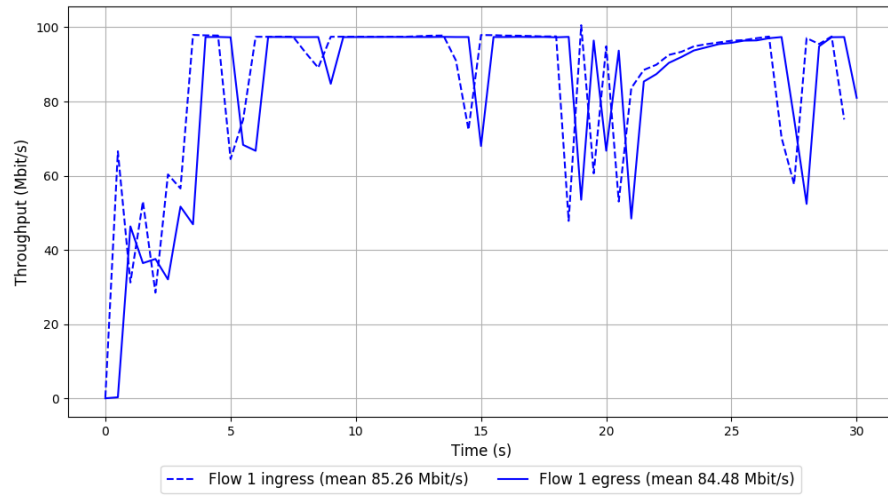
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 85.26 Mbit/s)   Flow 1 egress (mean 84.48 Mbit/s)
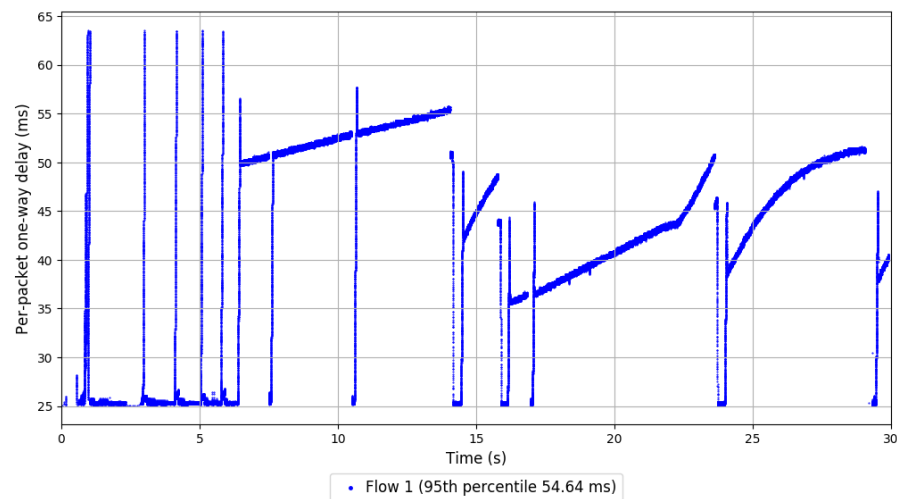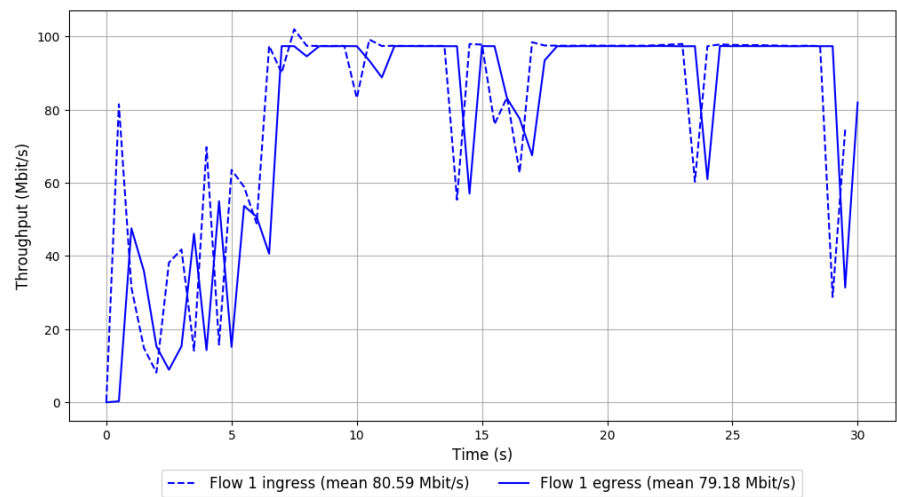

Flow 1 (95th percentile 59.98 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2019-06-27 04:11:10
End at: 2019-06-27 04:11:40
Local clock offset: -3.539 ms
Remote clock offset: -2.873 ms

# Below is generated by plot.py at 2019-06-27 04:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.18 Mbit/s
95th percentile per-packet one-way delay: 54.641 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 79.18 Mbit/s
95th percentile per-packet one-way delay: 54.641 ms
Loss rate: 1.69%
```
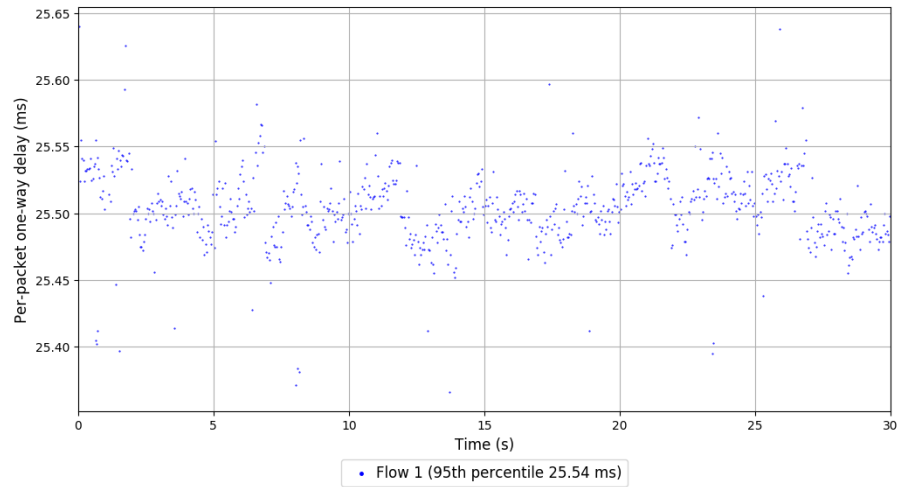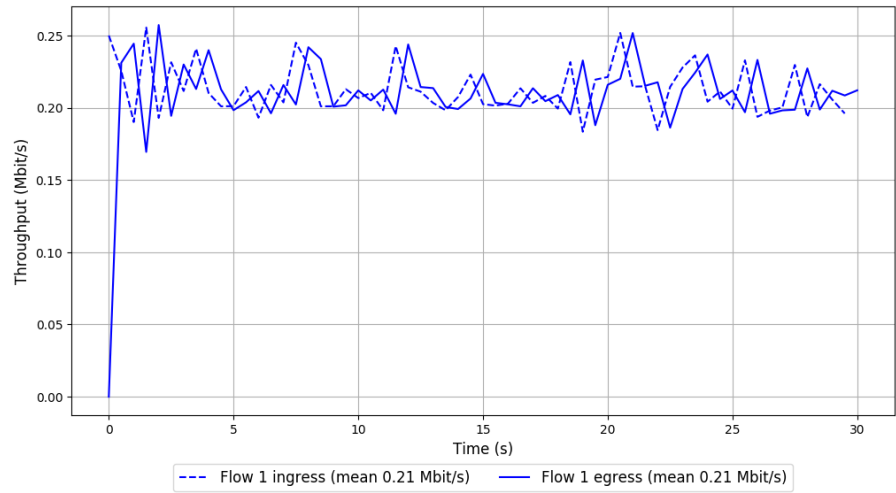
Run 5: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2019-06-27 02:27:01
End at: 2019-06-27 02:27:31
Local clock offset: -0.738 ms
Remote clock offset: -3.719 ms


# Below is generated by plot.py at 2019-06-27 04:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.544 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2019-06-27 02:53:35
End at: 2019-06-27 02:54:05
Local clock offset: -0.42 ms
Remote clock offset: -3.55 ms


# Below is generated by plot.py at 2019-06-27 04:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.345 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.345 ms
Loss rate: 0.00%
```
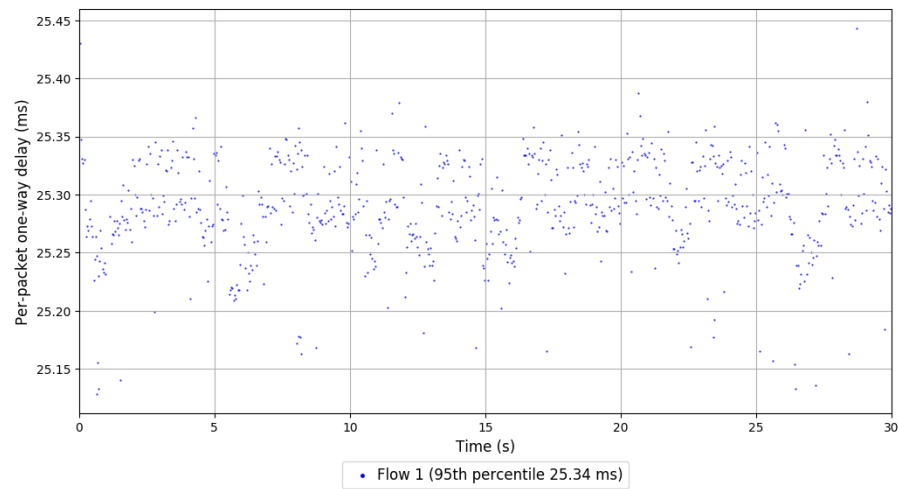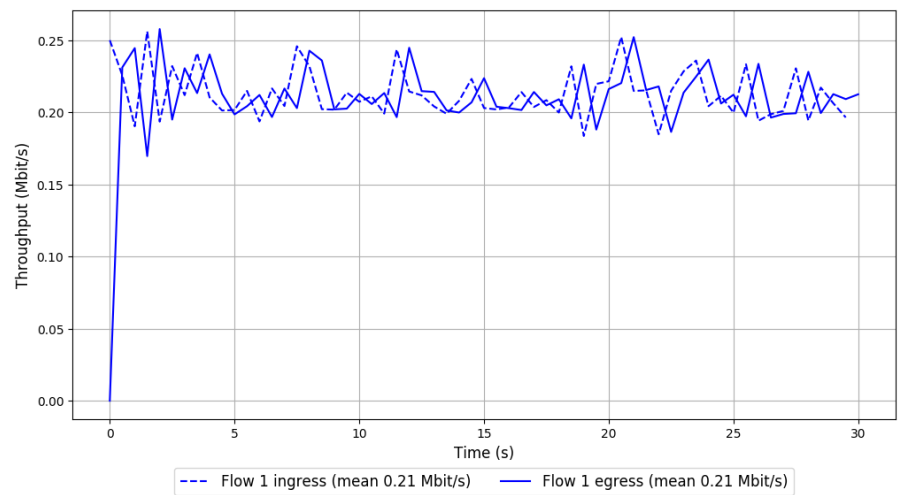
Run 2: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 25.34 ms)

```
Run 3: Statistics of SCReAM

Start at: 2019-06-27 03:20:30
End at: 2019-06-27 03:21:00
Local clock offset: -0.199 ms
Remote clock offset: -3.087 ms


# Below is generated by plot.py at 2019-06-27 04:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.444 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.444 ms
Loss rate: 0.00%
```
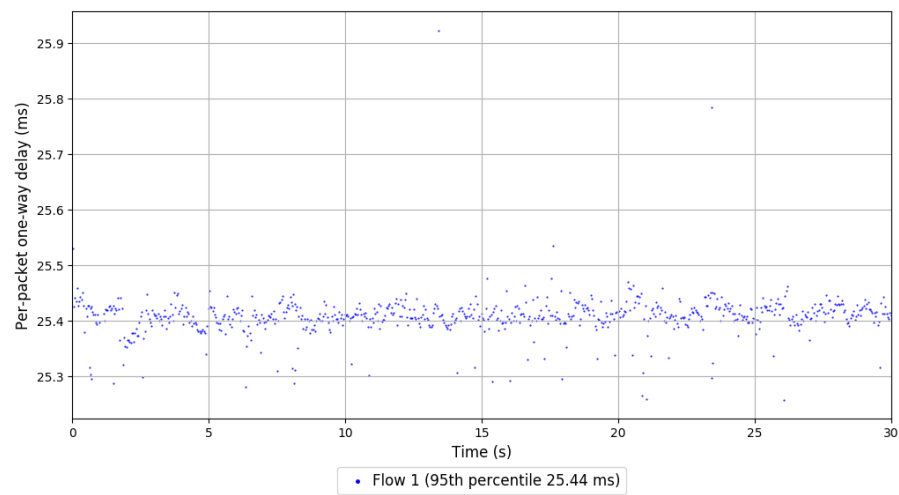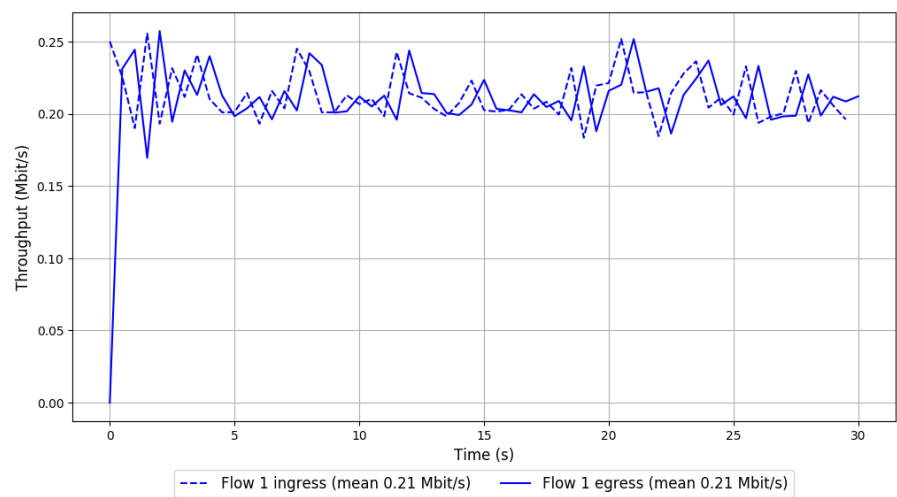
Run 3: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 25.44 ms)

```
Run 4: Statistics of SCReAM

Start at: 2019-06-27 03:48:17
End at: 2019-06-27 03:48:47
Local clock offset: -0.008 ms
Remote clock offset: -2.843 ms


# Below is generated by plot.py at 2019-06-27 04:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.414 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.414 ms
Loss rate: 0.00%
```
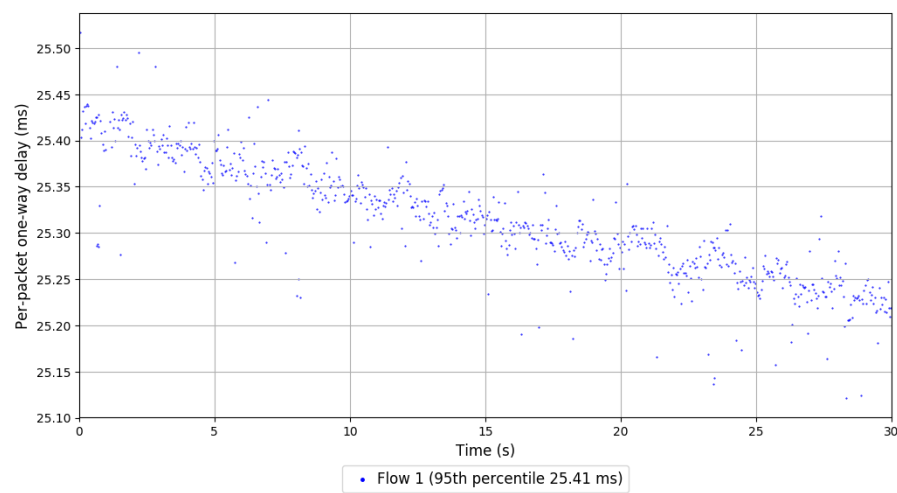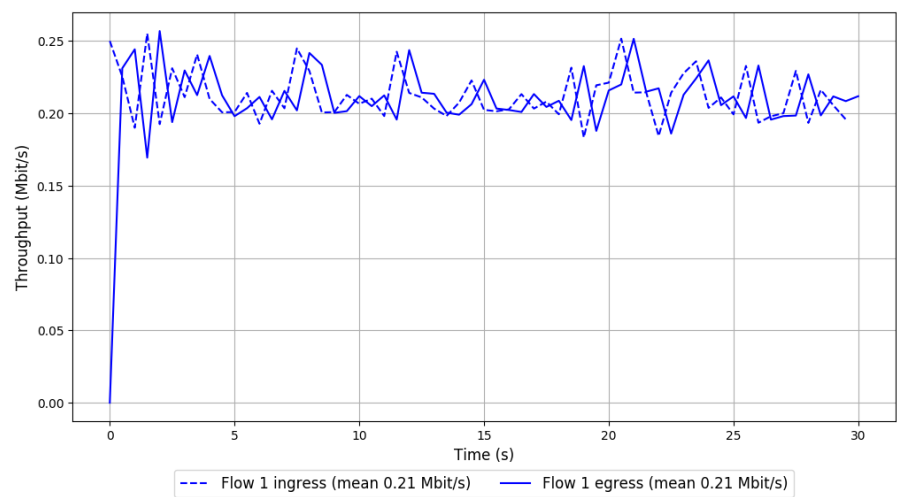
Run 4: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 25.41 ms)

```
Run 5: Statistics of SCReAM

Start at: 2019-06-27 04:14:51
End at: 2019-06-27 04:15:21
Local clock offset: -3.752 ms
Remote clock offset: -2.773 ms


# Below is generated by plot.py at 2019-06-27 04:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.484 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.484 ms
Loss rate: 0.00%
```
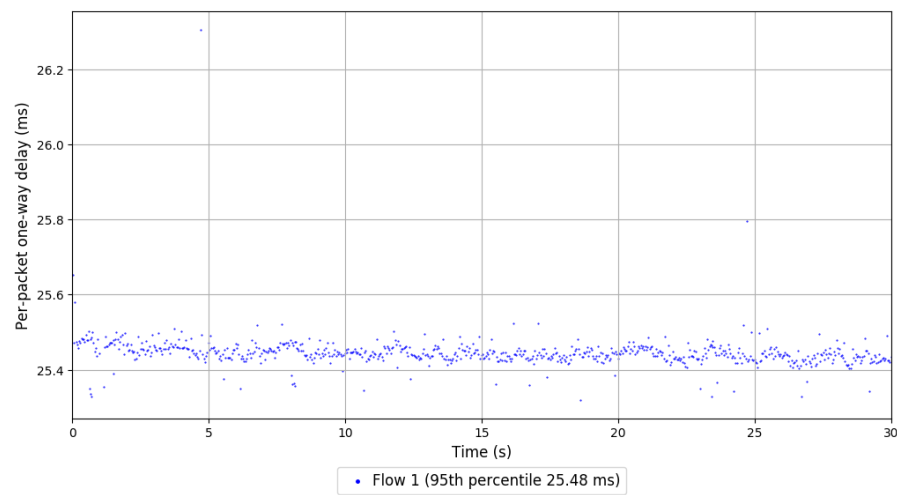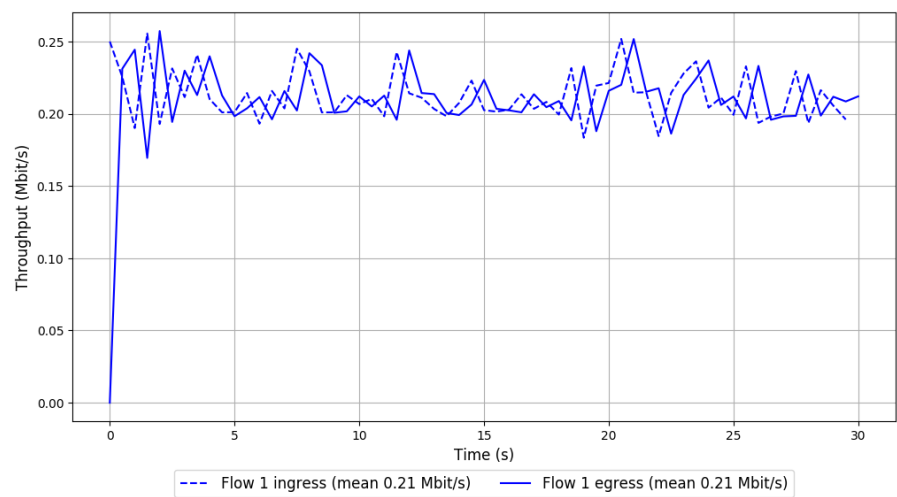
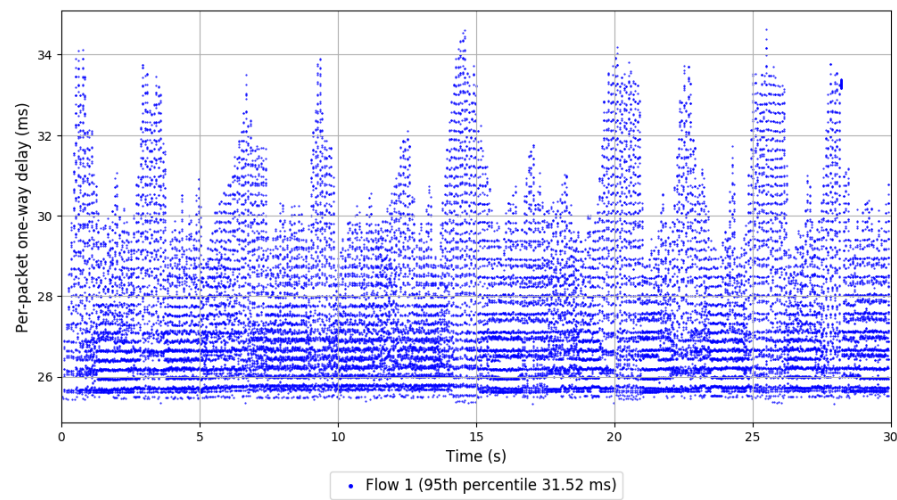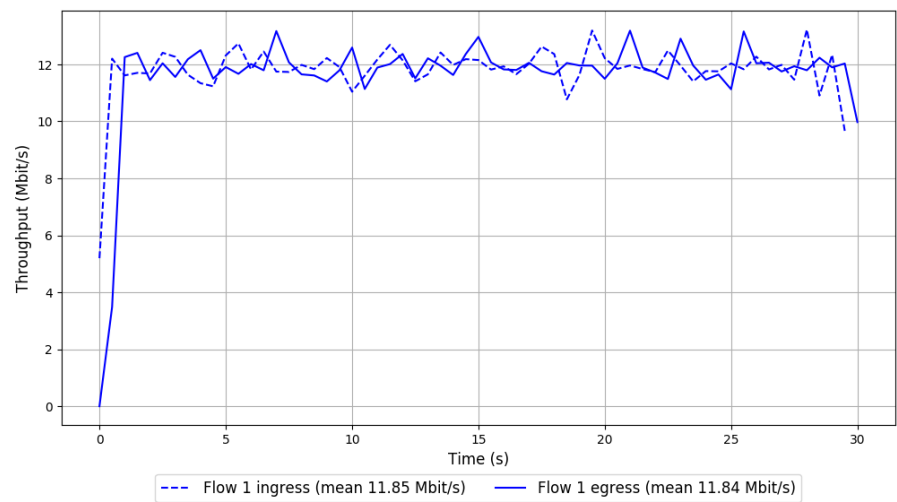# Run 5: Report of SCReAM — Data Link

```
Run 1: Statistics of Sprout

Start at: 2019-06-27 02:21:13
End at: 2019-06-27 02:21:43
Local clock offset: -1.119 ms
Remote clock offset: -3.724 ms


# Below is generated by plot.py at 2019-06-27 04:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 31.523 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 31.523 ms
Loss rate: 0.00%
```

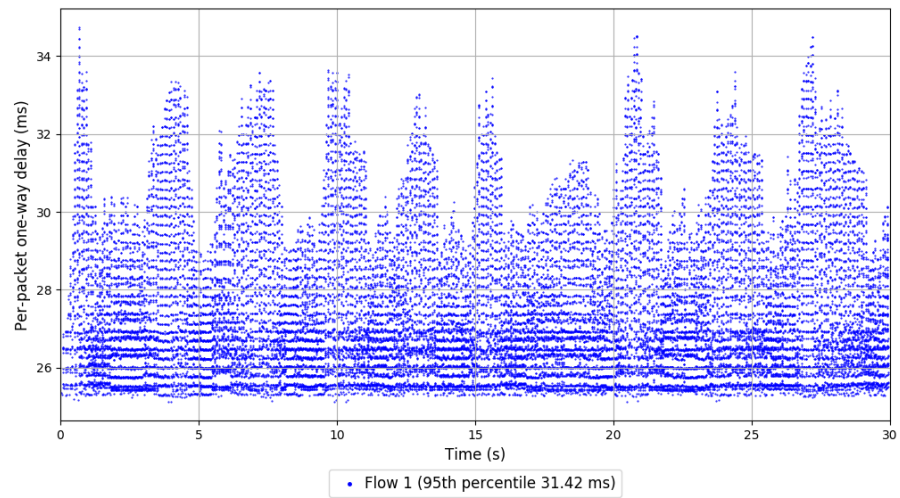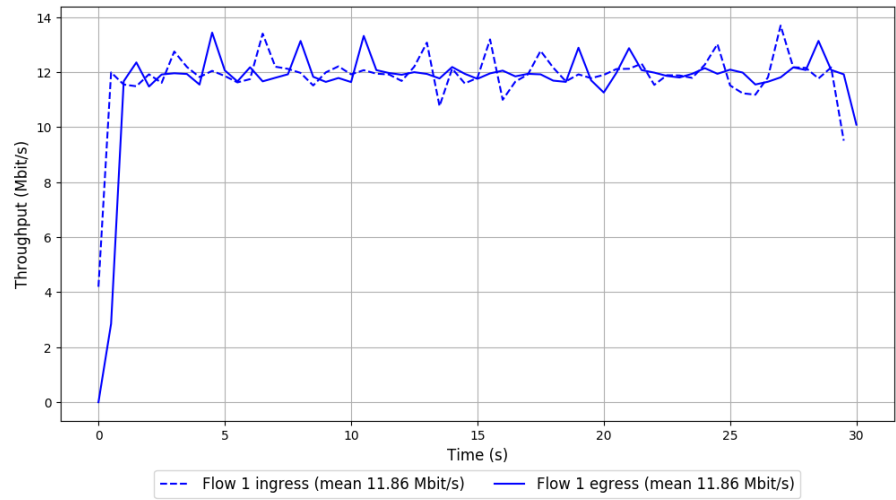Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2019-06-27 02:47:31
End at: 2019-06-27 02:48:01
Local clock offset: -0.809 ms
Remote clock offset: -3.517 ms


# Below is generated by plot.py at 2019-06-27 04:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 31.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 31.421 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)

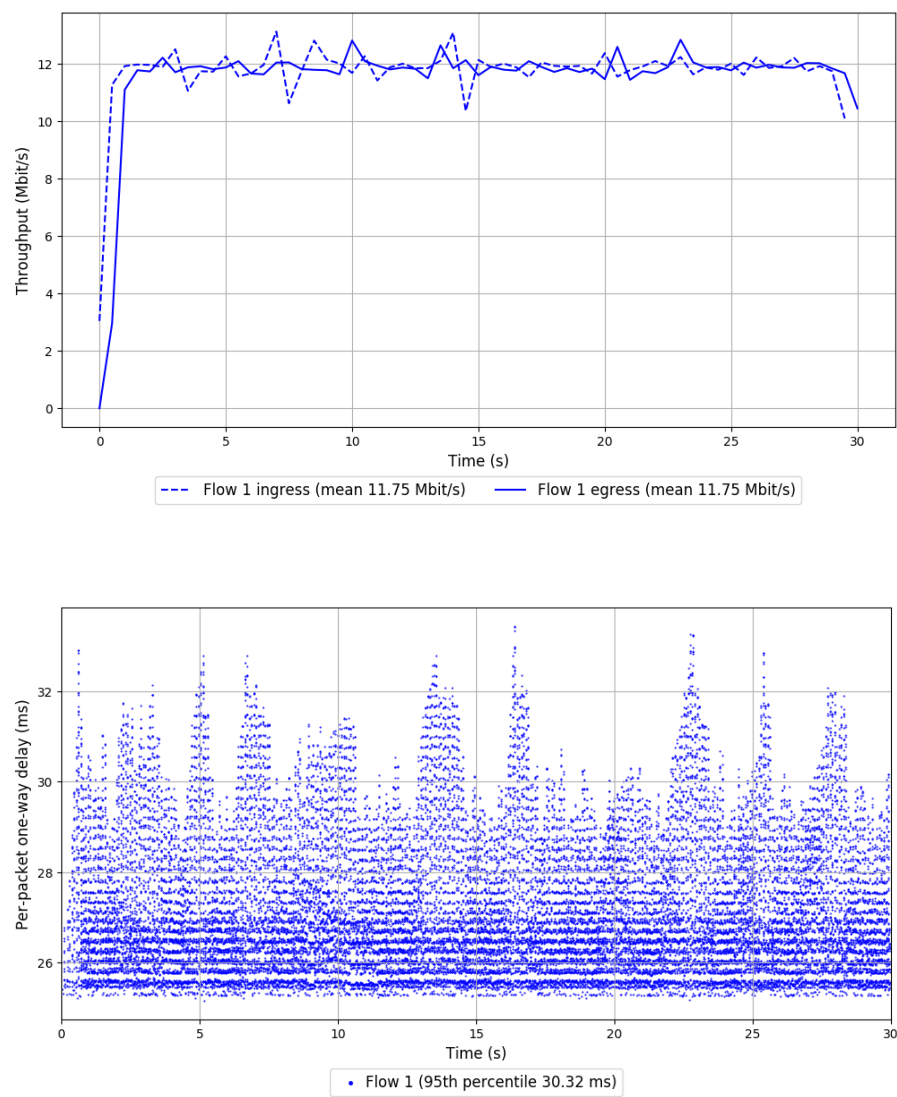• Flow 1 (95th percentile 31.42 ms)

```
Run 3: Statistics of Sprout

Start at: 2019-06-27 03:14:16
End at: 2019-06-27 03:14:46
Local clock offset: -0.262 ms
Remote clock offset: -3.113 ms


# Below is generated by plot.py at 2019-06-27 04:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 30.322 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 30.322 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 11.75 Mbit/s)　　Flow 1 egress (mean 11.75 Mbit/s)

Flow 1 (95th percentile 30.32 ms)

```
Run 4: Statistics of Sprout

Start at: 2019-06-27 03:42:18
End at: 2019-06-27 03:42:48
Local clock offset: 0.016 ms
Remote clock offset: -2.81 ms


# Below is generated by plot.py at 2019-06-27 04:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 30.415 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 30.415 ms
Loss rate: 0.10%
```
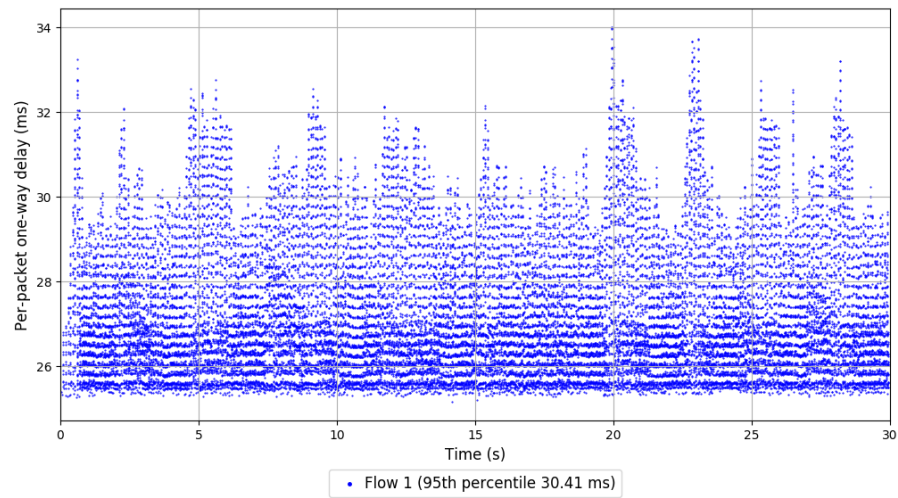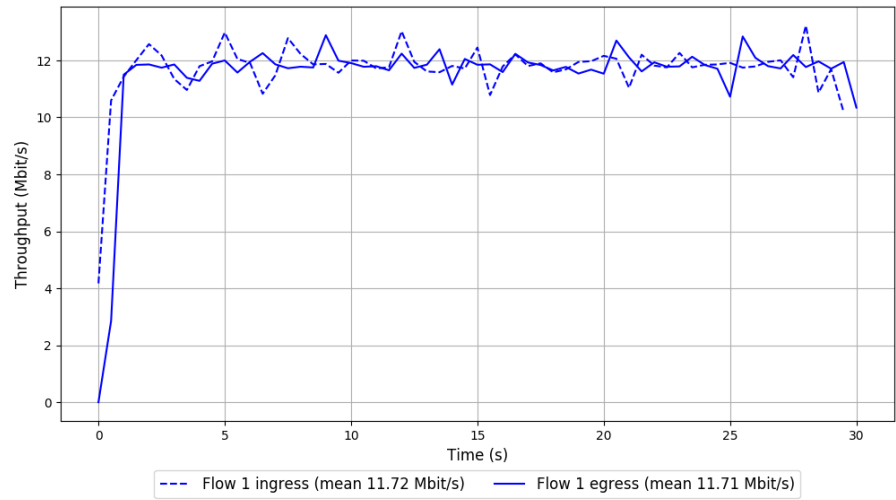
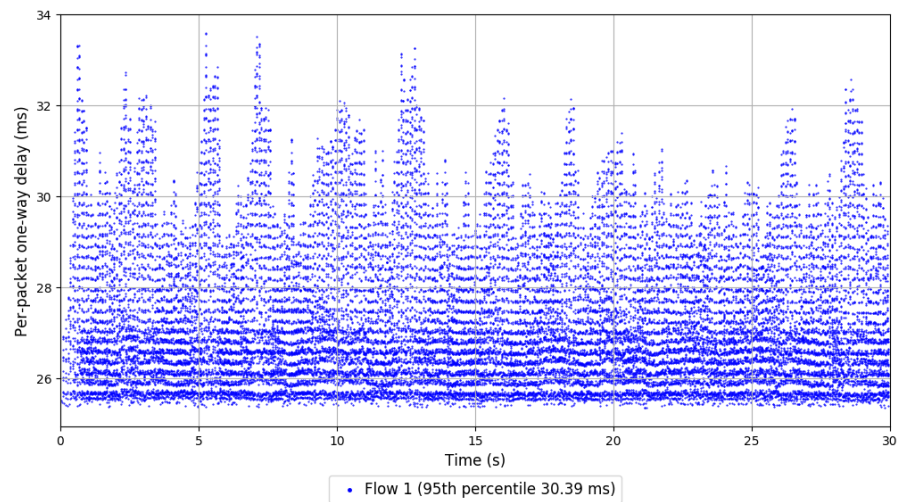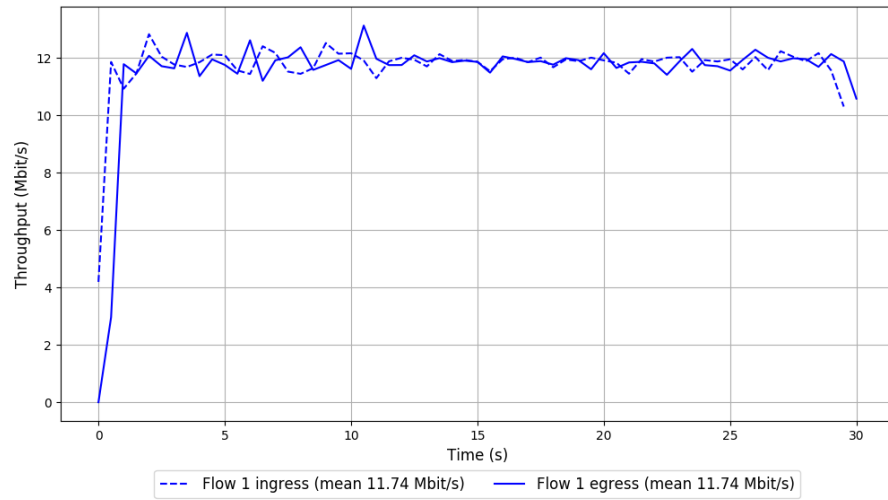Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2019-06-27 04:08:51
End at: 2019-06-27 04:09:21
Local clock offset: -3.366 ms
Remote clock offset: -2.787 ms


# Below is generated by plot.py at 2019-06-27 04:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 30.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 30.387 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

Flow 1 ingress (mean 11.74 Mbit/s) ----   Flow 1 egress (mean 11.74 Mbit/s) ——

Flow 1 (95th percentile 30.39 ms)
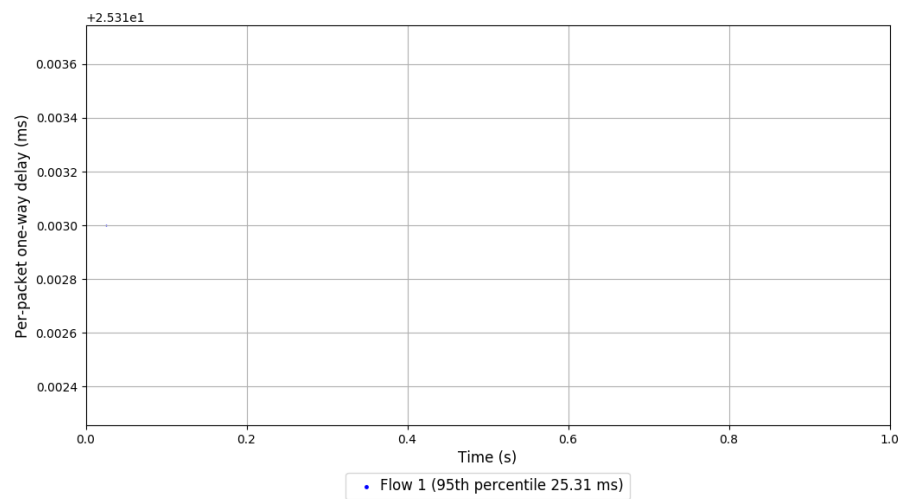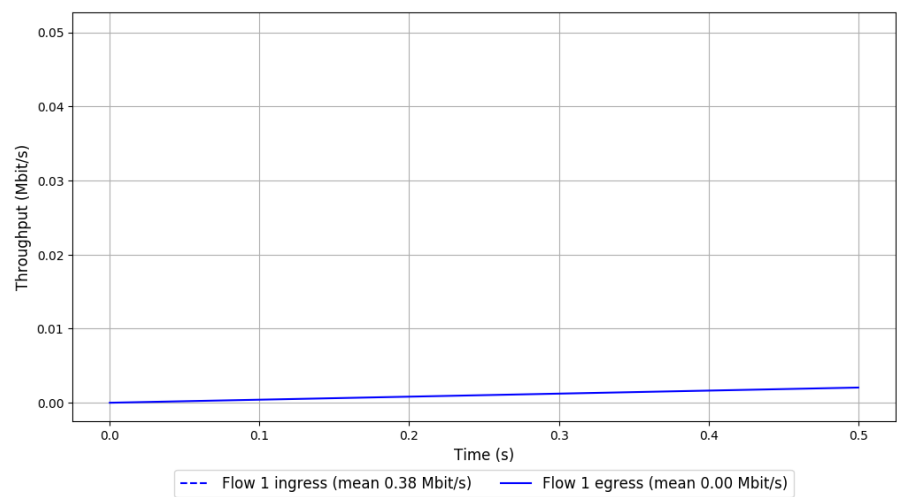
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```
Run 1: Statistics of TaoVA-100x

Start at: 2019-06-27 02:20:07
End at: 2019-06-27 02:20:37
Local clock offset: -1.267 ms
Remote clock offset: -3.97 ms
```

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

Flow 1 ingress (mean 0.38 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 25.31 ms)

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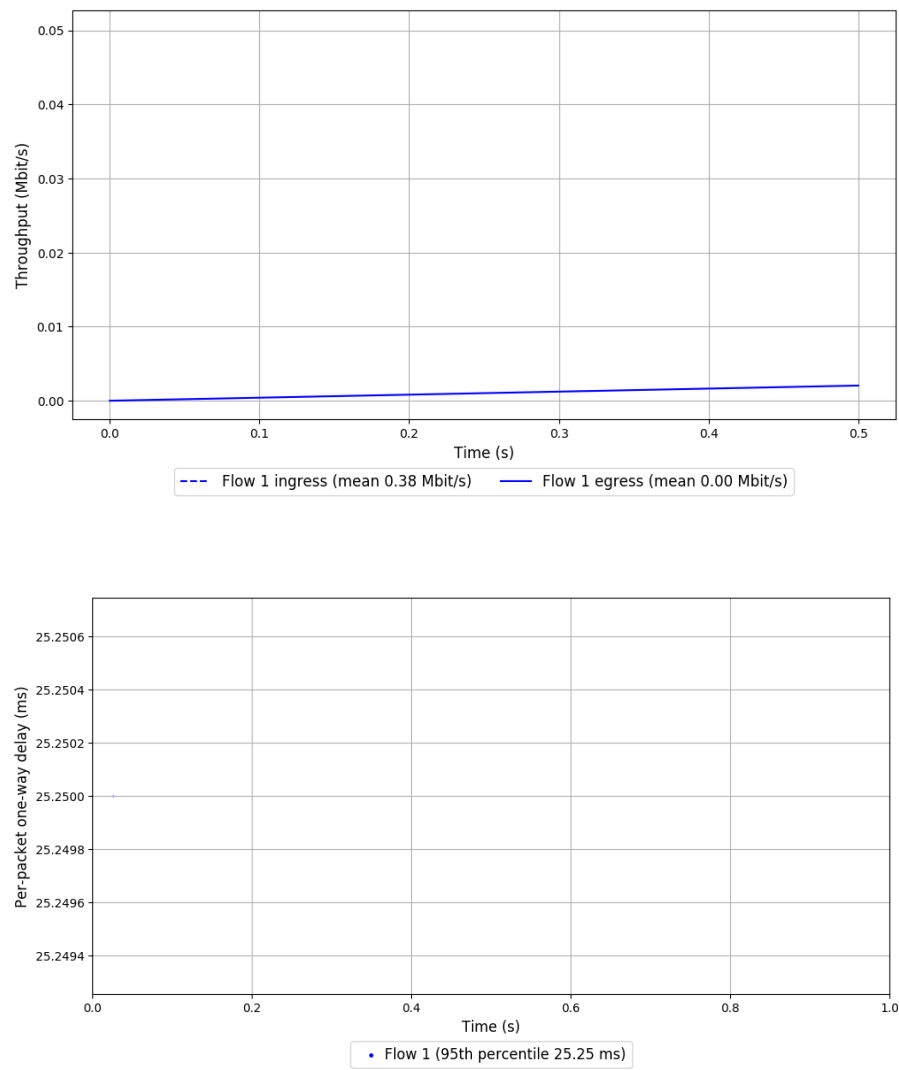Run 2: Statistics of TaoVA-100x

Start at: 2019-06-27 02:46:25
End at: 2019-06-27 02:46:55
Local clock offset: -0.789 ms
Remote clock offset: -3.612 ms

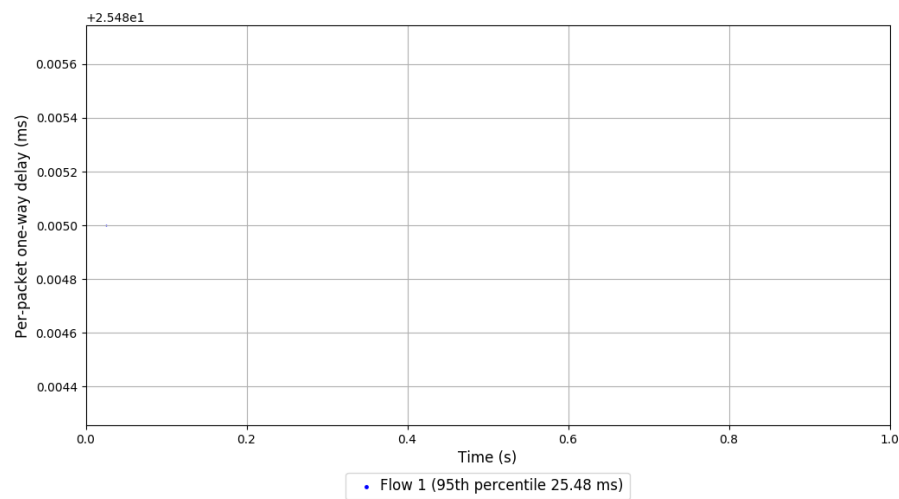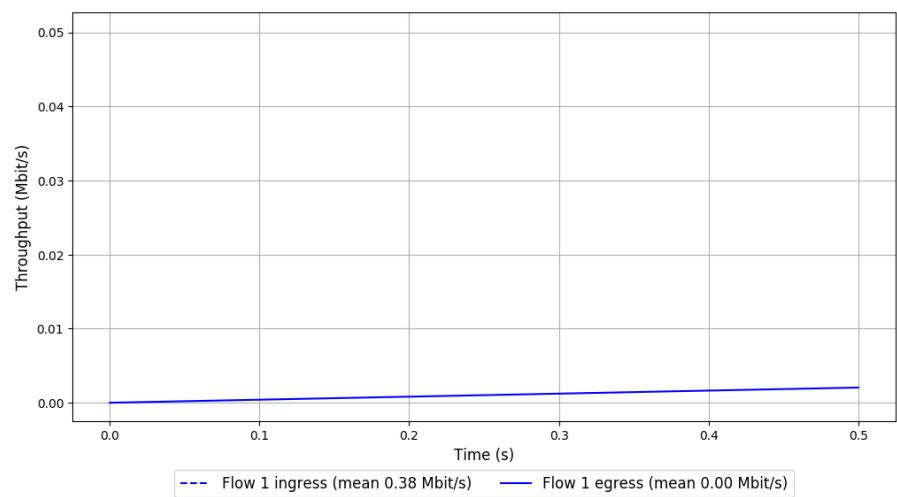# Run 2: Report of TaoVA-100x — Data Link

Run 3: Statistics of TaoVA-100x

Start at: 2019-06-27 03:13:09
End at: 2019-06-27 03:13:39
Local clock offset: -0.248 ms
Remote clock offset: -3.164 ms

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

Flow 1 ingress (mean 0.38 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 25.48 ms)
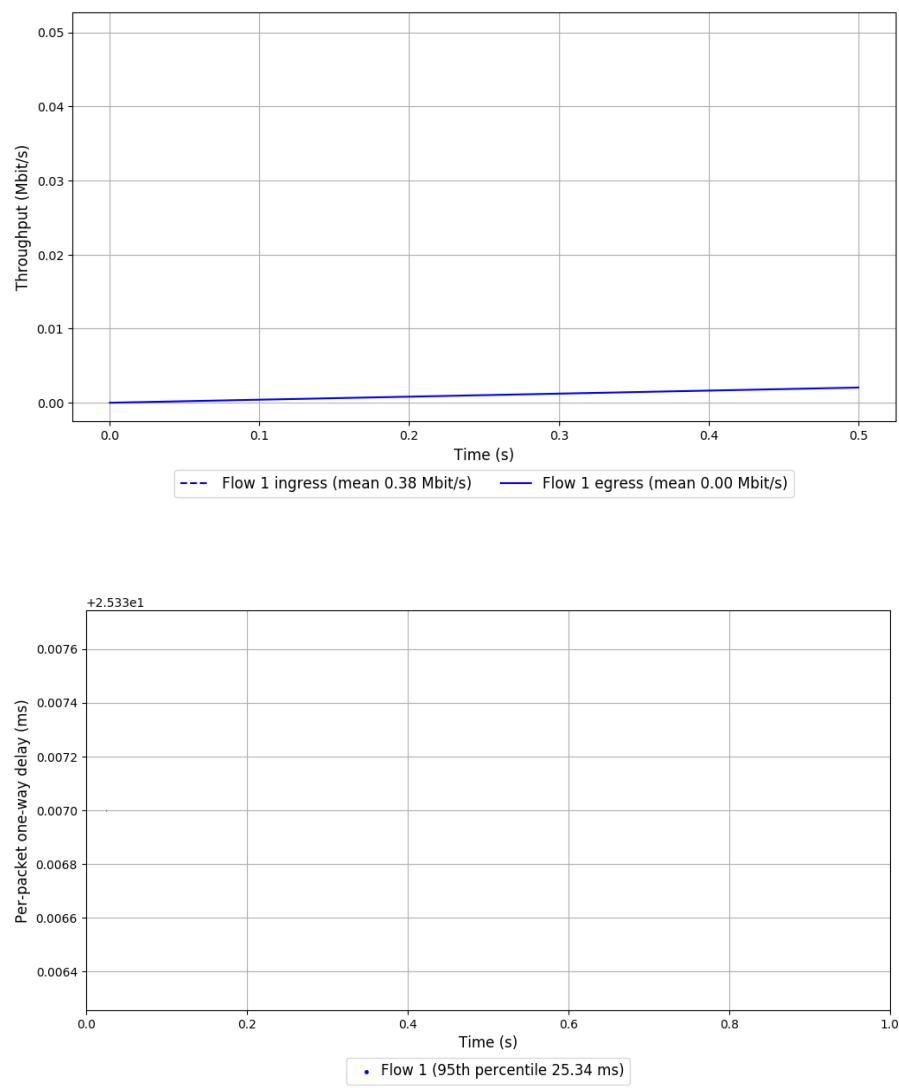
```
Run 4: Statistics of TaoVA-100x

Start at: 2019-06-27 03:41:11
End at: 2019-06-27 03:41:41
Local clock offset: 0.053 ms
Remote clock offset: -2.839 ms
```

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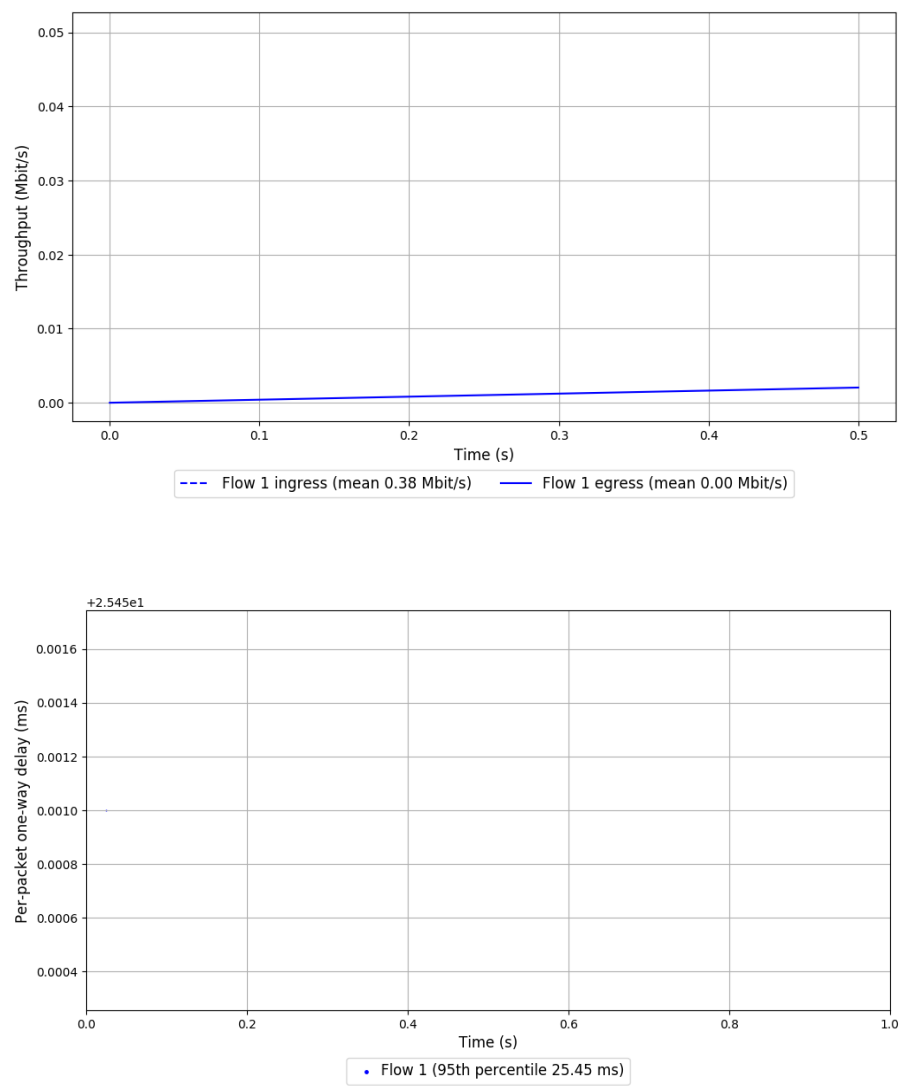
```
Run 5: Statistics of TaoVA-100x

Start at: 2019-06-27 04:07:44
End at: 2019-06-27 04:08:14
Local clock offset: -3.261 ms
Remote clock offset: -2.819 ms
```

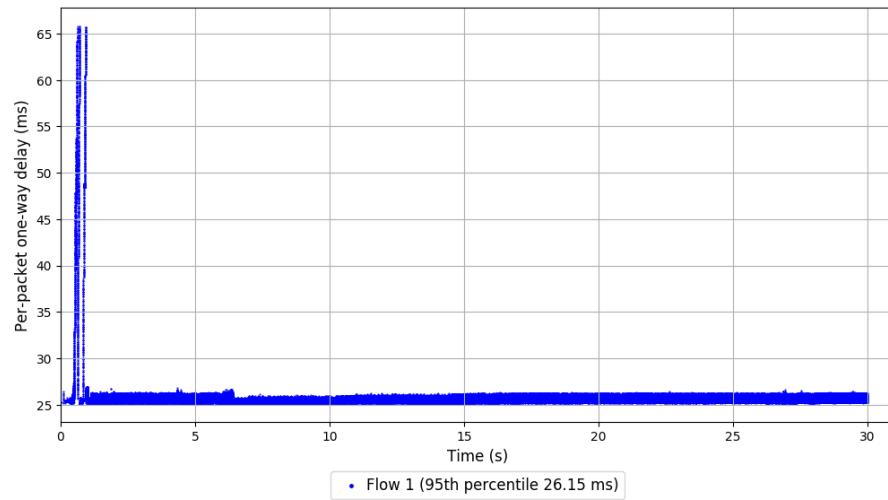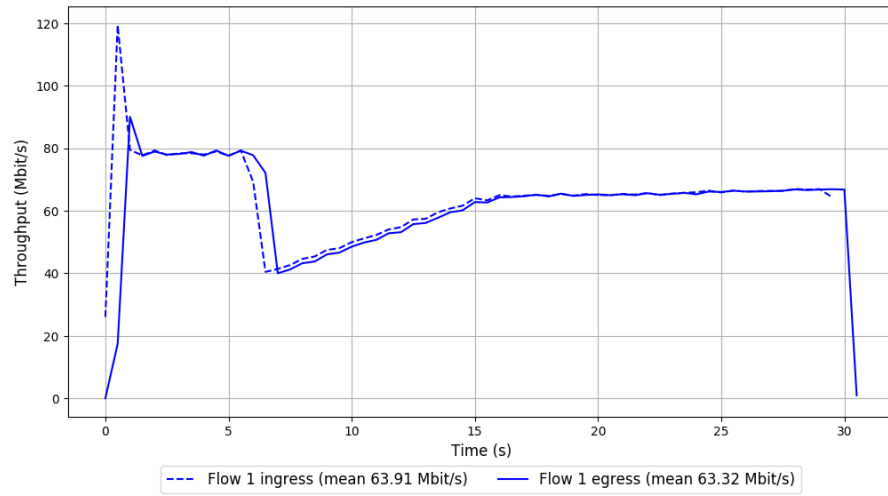## Run 5: Report of TaoVA-100x — Data Link

```
Run 1: Statistics of TCP Vegas

Start at: 2019-06-27 02:22:21
End at: 2019-06-27 02:22:51
Local clock offset: -0.994 ms
Remote clock offset: -3.896 ms

# Below is generated by plot.py at 2019-06-27 04:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.32 Mbit/s
95th percentile per-packet one-way delay: 26.148 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 63.32 Mbit/s
95th percentile per-packet one-way delay: 26.148 ms
Loss rate: 0.92%
```

Run 1: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 63.91 Mbit/s)　　Flow 1 egress (mean 63.32 Mbit/s)
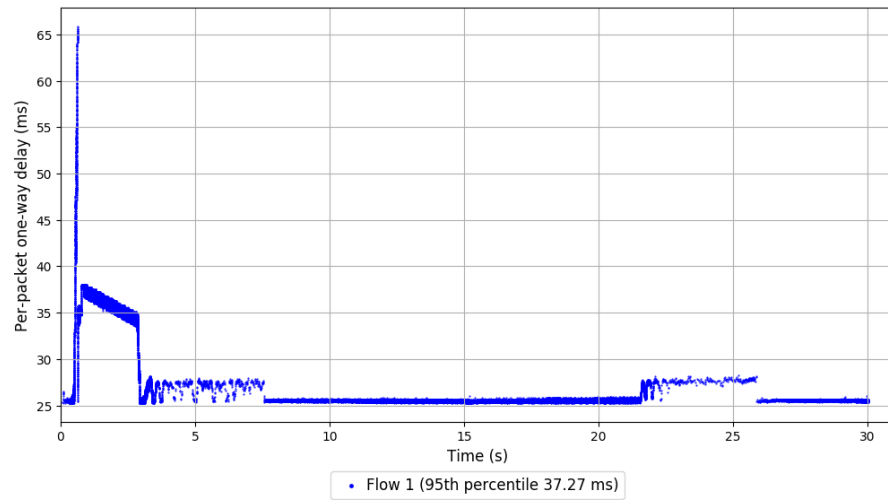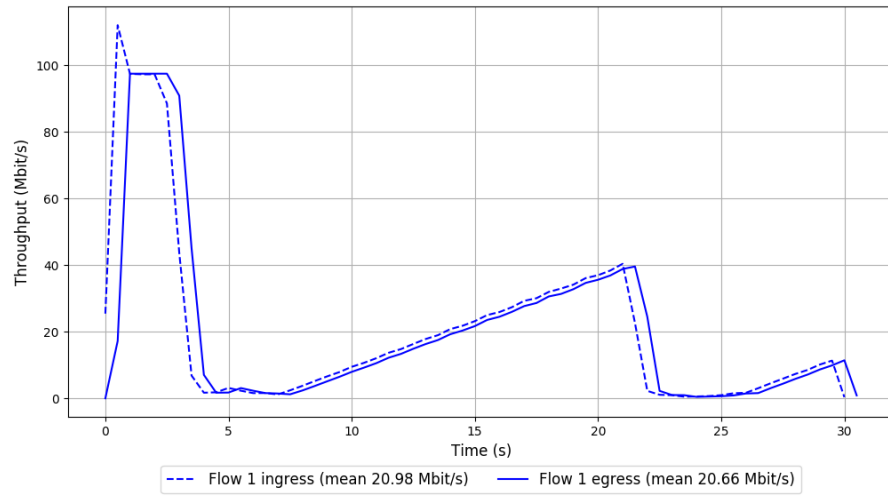

Flow 1 (95th percentile 26.15 ms)

```
Run 2: Statistics of TCP Vegas

Start at: 2019-06-27 02:48:39
End at: 2019-06-27 02:49:09
Local clock offset: -0.83 ms
Remote clock offset: -3.567 ms


# Below is generated by plot.py at 2019-06-27 04:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 37.270 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 37.270 ms
Loss rate: 1.54%
```
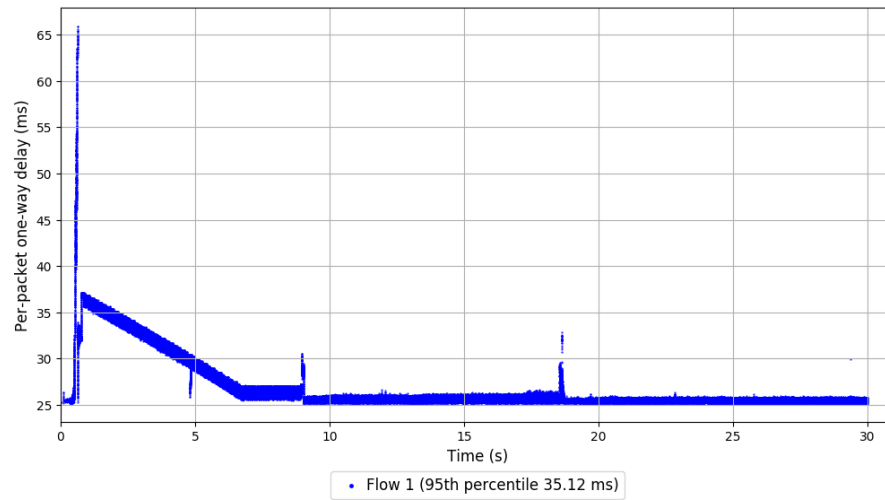
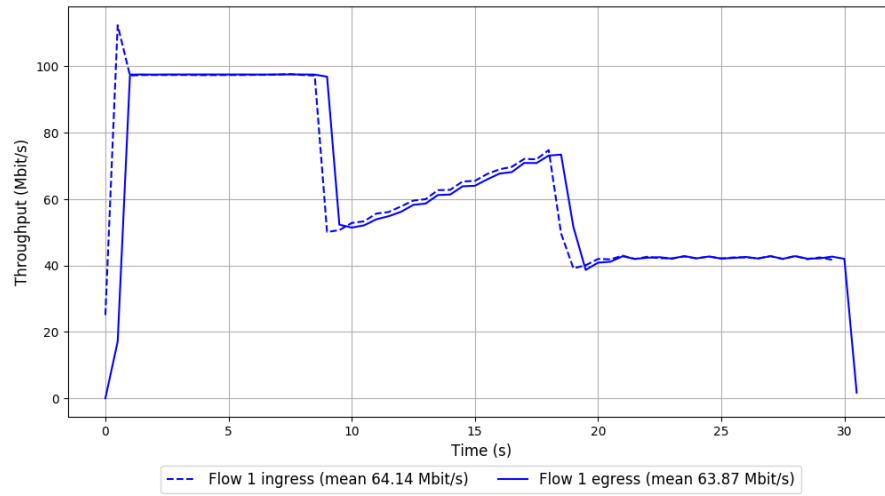Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2019-06-27 03:15:24
End at: 2019-06-27 03:15:54
Local clock offset: -0.249 ms
Remote clock offset: -3.183 ms


# Below is generated by plot.py at 2019-06-27 04:41:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.87 Mbit/s
95th percentile per-packet one-way delay: 35.121 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 63.87 Mbit/s
95th percentile per-packet one-way delay: 35.121 ms
Loss rate: 0.43%
```

Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 64.14 Mbit/s) Flow 1 egress (mean 63.87 Mbit/s)
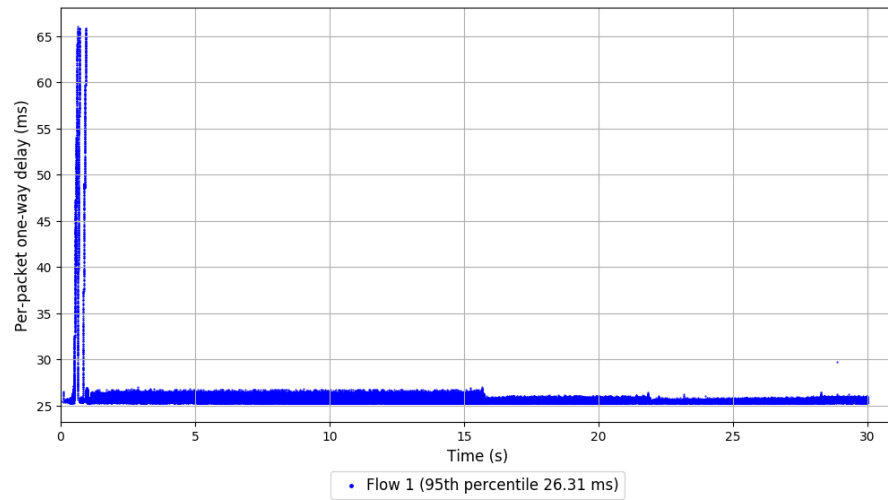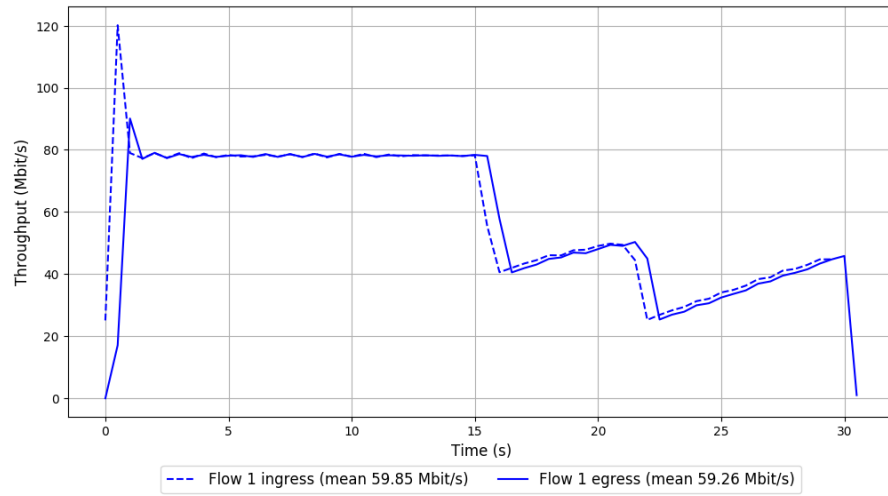

Flow 1 (95th percentile 35.12 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2019-06-27 03:43:25
End at: 2019-06-27 03:43:55
Local clock offset: 0.009 ms
Remote clock offset: -2.826 ms


# Below is generated by plot.py at 2019-06-27 04:41:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.26 Mbit/s
95th percentile per-packet one-way delay: 26.310 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 59.26 Mbit/s
95th percentile per-packet one-way delay: 26.310 ms
Loss rate: 0.98%
```
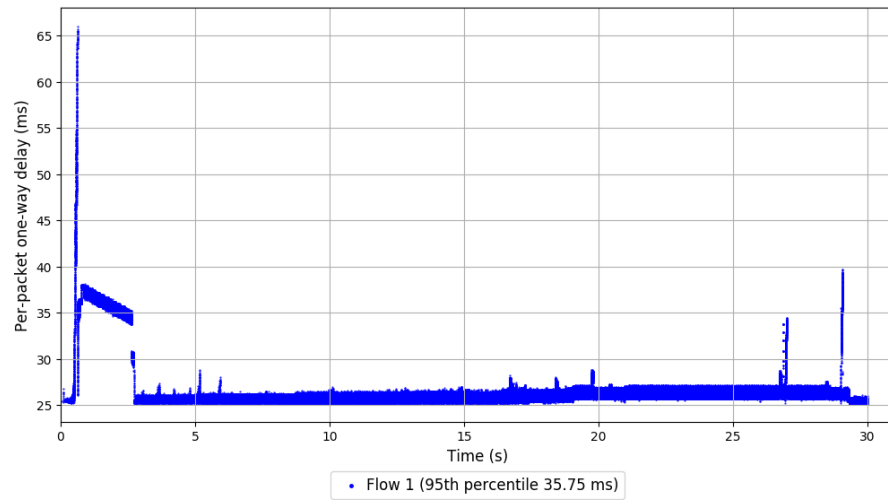
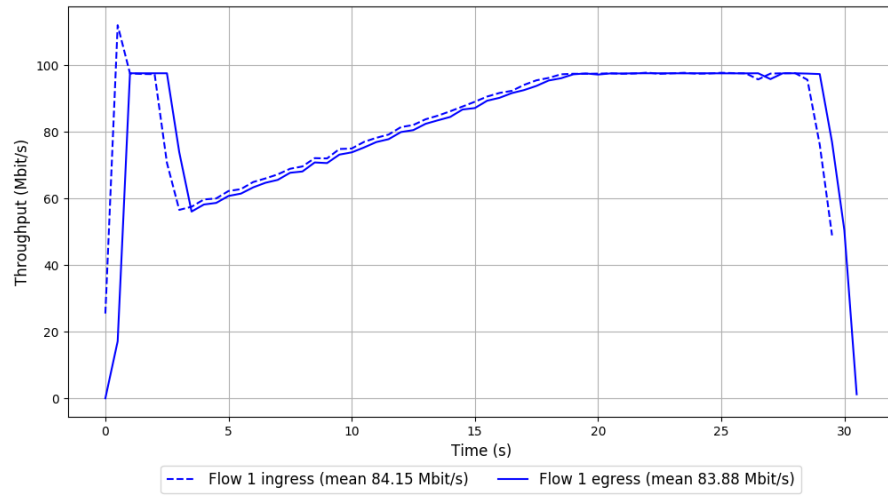## Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2019-06-27 04:09:58
End at: 2019-06-27 04:10:28
Local clock offset: -3.462 ms
Remote clock offset: -2.857 ms


# Below is generated by plot.py at 2019-06-27 04:41:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.88 Mbit/s
95th percentile per-packet one-way delay: 35.750 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 83.88 Mbit/s
95th percentile per-packet one-way delay: 35.750 ms
Loss rate: 0.32%
```

Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 84.15 Mbit/s) --- Flow 1 egress (mean 83.88 Mbit/s)
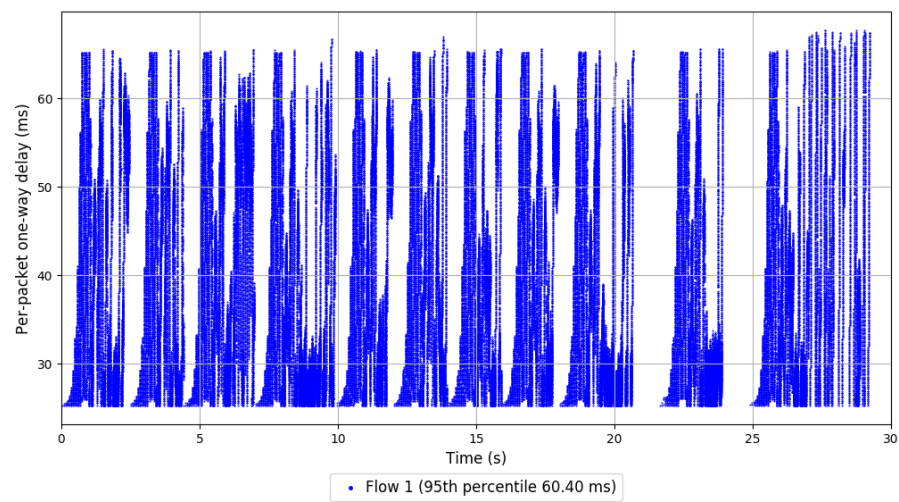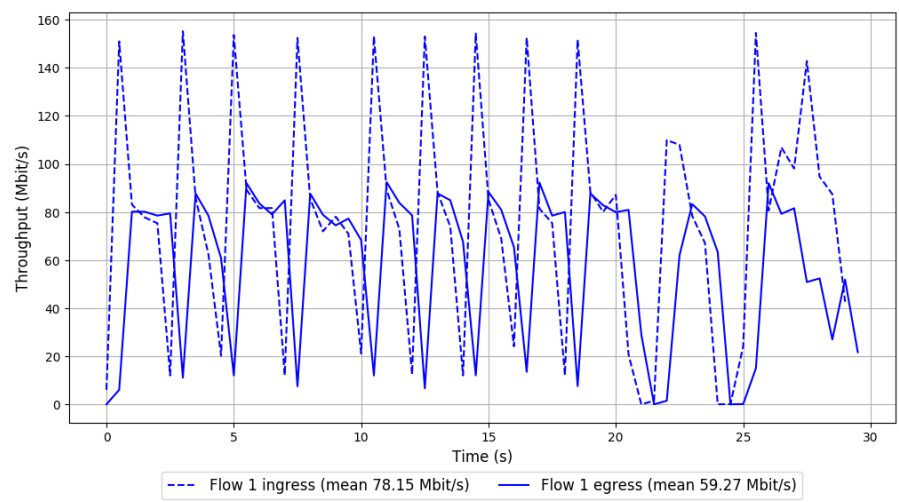

Flow 1 (95th percentile 35.75 ms)

```
Run 1: Statistics of Verus

Start at: 2019-06-27 02:28:08
End at: 2019-06-27 02:28:38
Local clock offset: -0.684 ms
Remote clock offset: -3.816 ms


# Below is generated by plot.py at 2019-06-27 04:41:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.27 Mbit/s
95th percentile per-packet one-way delay: 60.401 ms
Loss rate: 24.12%
-- Flow 1:
Average throughput: 59.27 Mbit/s
95th percentile per-packet one-way delay: 60.401 ms
Loss rate: 24.12%
```
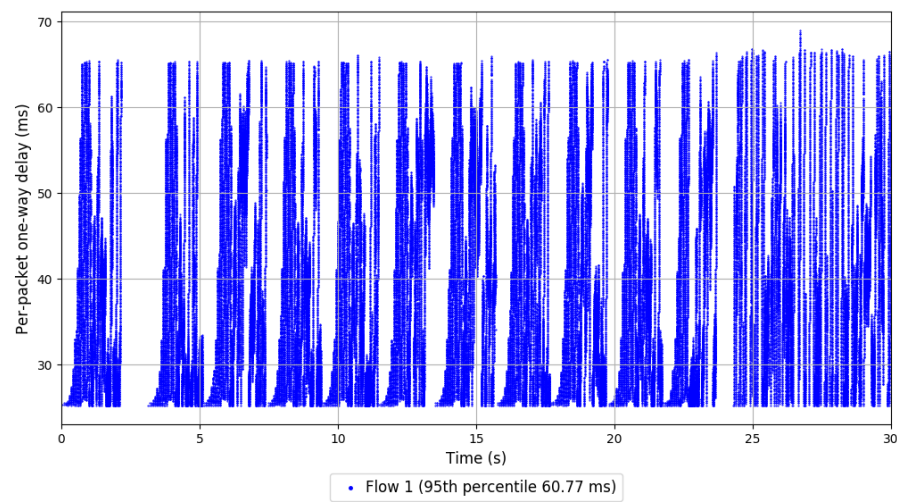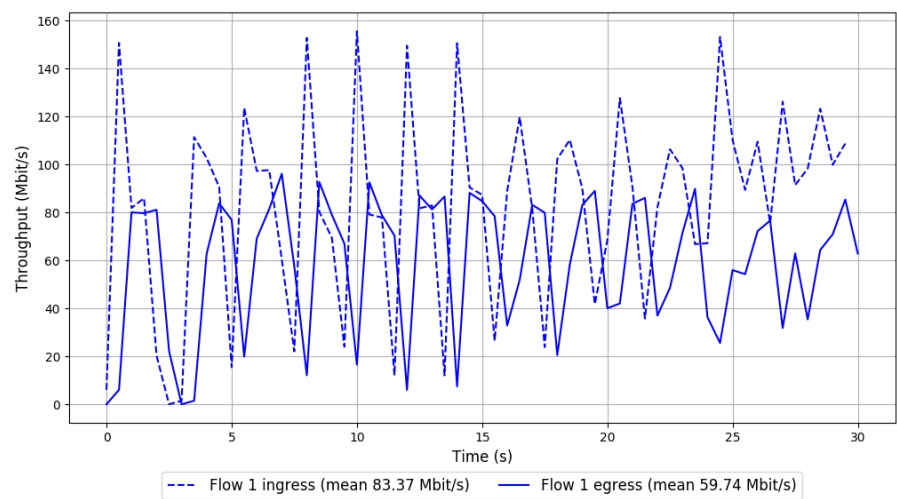
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2019-06-27 02:54:42
End at: 2019-06-27 02:55:12
Local clock offset: -0.407 ms
Remote clock offset: -3.452 ms


# Below is generated by plot.py at 2019-06-27 04:41:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.74 Mbit/s
95th percentile per-packet one-way delay: 60.775 ms
Loss rate: 28.25%
-- Flow 1:
Average throughput: 59.74 Mbit/s
95th percentile per-packet one-way delay: 60.775 ms
Loss rate: 28.25%
```
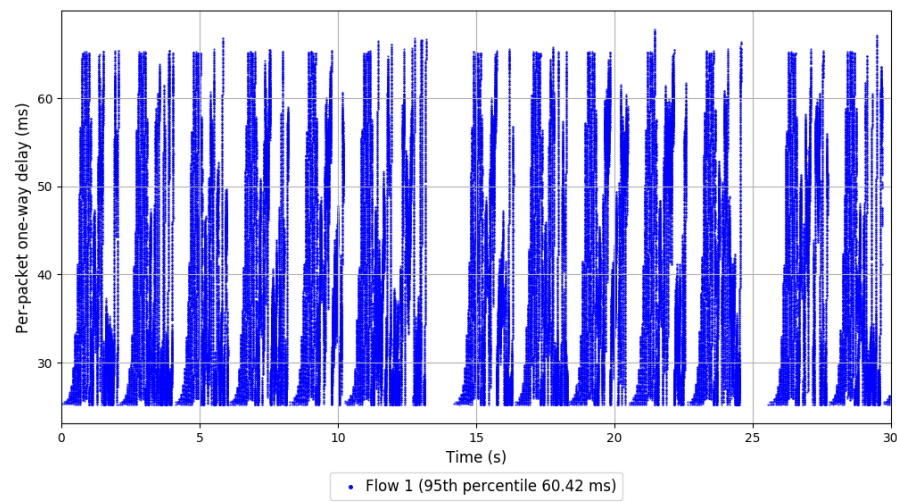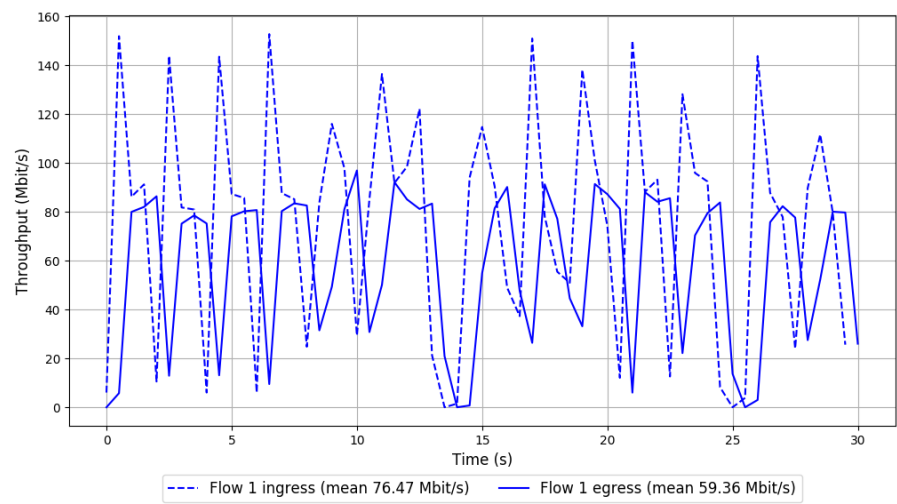
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2019-06-27 03:21:37
End at: 2019-06-27 03:22:07
Local clock offset: -0.172 ms
Remote clock offset: -3.082 ms


# Below is generated by plot.py at 2019-06-27 04:42:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.36 Mbit/s
95th percentile per-packet one-way delay: 60.420 ms
Loss rate: 22.36%
-- Flow 1:
Average throughput: 59.36 Mbit/s
95th percentile per-packet one-way delay: 60.420 ms
Loss rate: 22.36%
```
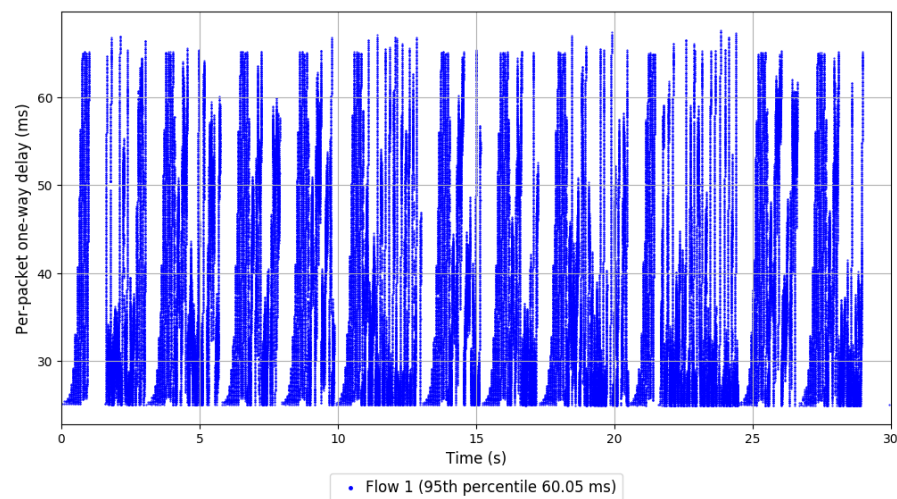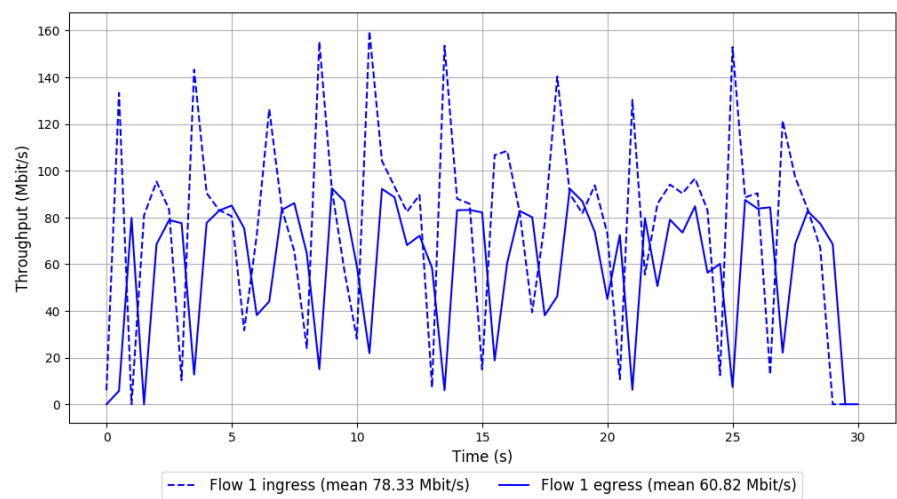
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2019-06-27 03:49:23
End at: 2019-06-27 03:49:53
Local clock offset: -0.31 ms
Remote clock offset: -2.812 ms


# Below is generated by plot.py at 2019-06-27 04:42:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.82 Mbit/s
95th percentile per-packet one-way delay: 60.050 ms
Loss rate: 22.36%
-- Flow 1:
Average throughput: 60.82 Mbit/s
95th percentile per-packet one-way delay: 60.050 ms
Loss rate: 22.36%
```

Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 78.33 Mbit/s) --- Flow 1 egress (mean 60.82 Mbit/s)

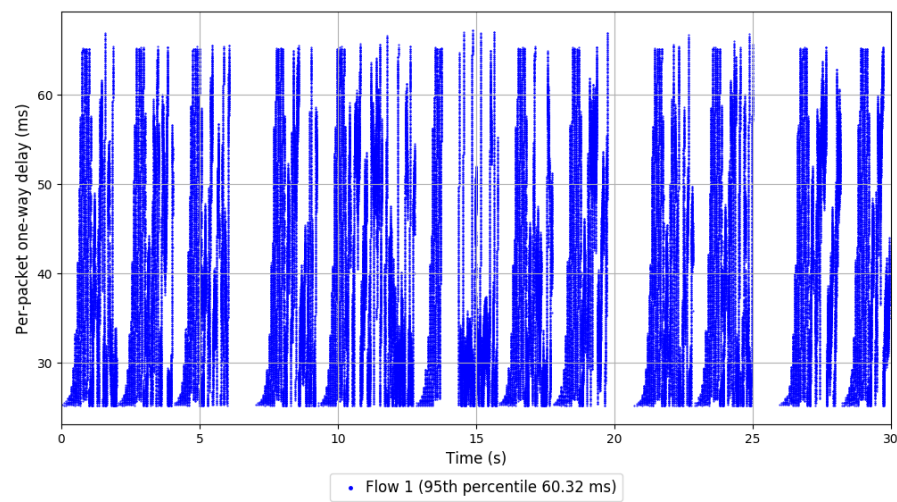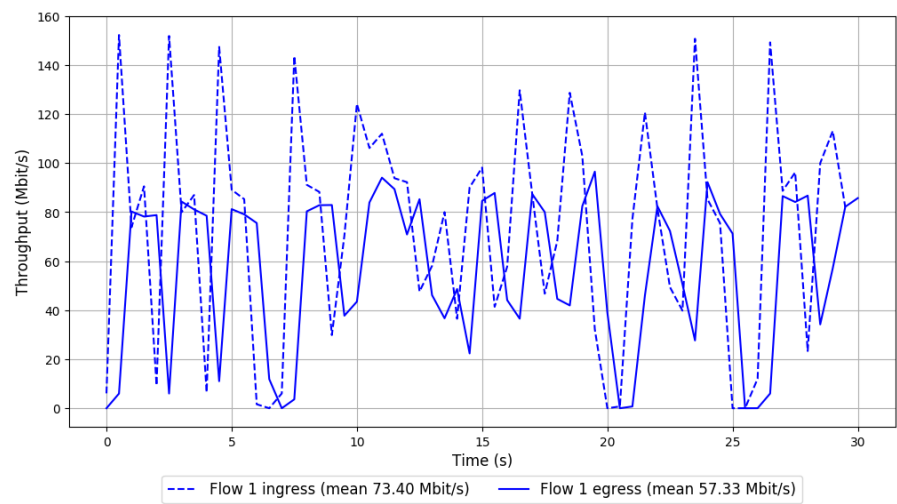

• Flow 1 (95th percentile 60.05 ms)

```
Run 5: Statistics of Verus

Start at: 2019-06-27 04:16:02
End at: 2019-06-27 04:16:32
Local clock offset: -3.826 ms
Remote clock offset: -2.877 ms


# Below is generated by plot.py at 2019-06-27 04:42:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.33 Mbit/s
95th percentile per-packet one-way delay: 60.323 ms
Loss rate: 21.84%
-- Flow 1:
Average throughput: 57.33 Mbit/s
95th percentile per-packet one-way delay: 60.323 ms
Loss rate: 21.84%
```

Run 5: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2019-06-27 02:18:55
End at: 2019-06-27 02:19:25
Local clock offset: -1.383 ms
Remote clock offset: -3.955 ms


# Below is generated by plot.py at 2019-06-27 04:42:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.32 Mbit/s
95th percentile per-packet one-way delay: 26.670 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.32 Mbit/s
95th percentile per-packet one-way delay: 26.670 ms
Loss rate: 0.00%
```
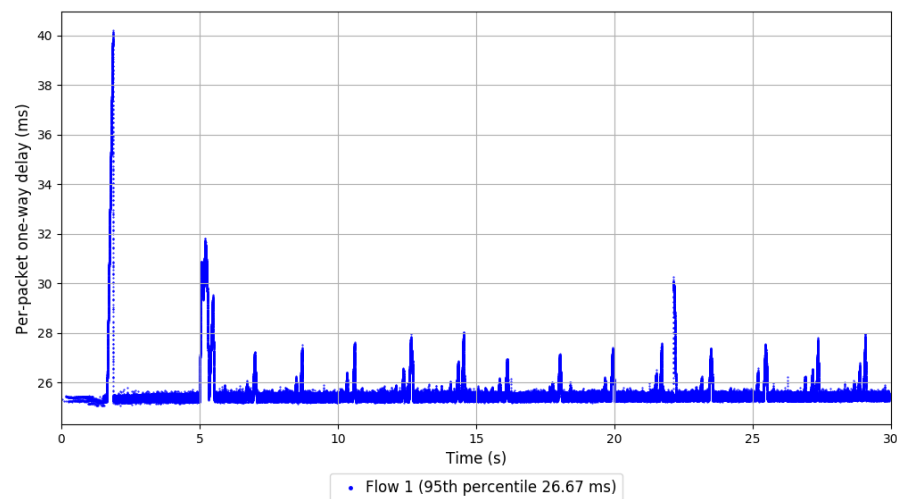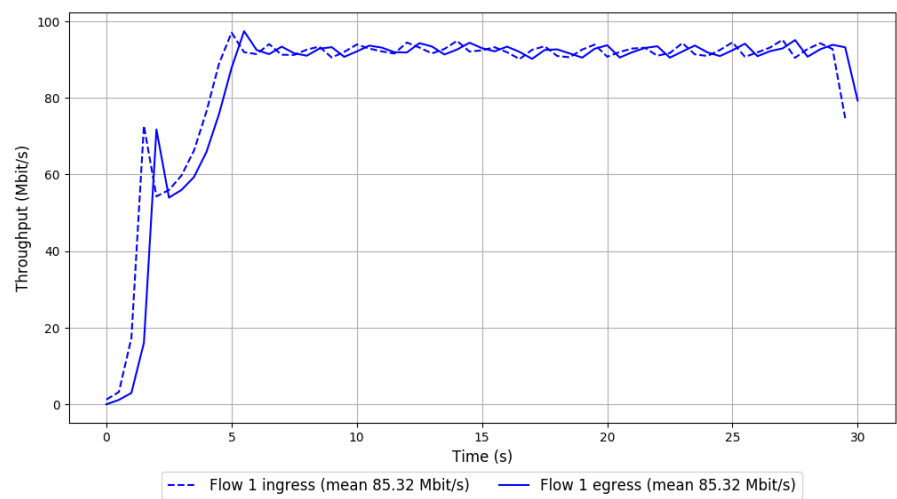
Run 1: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 85.32 Mbit/s)   Flow 1 egress (mean 85.32 Mbit/s)

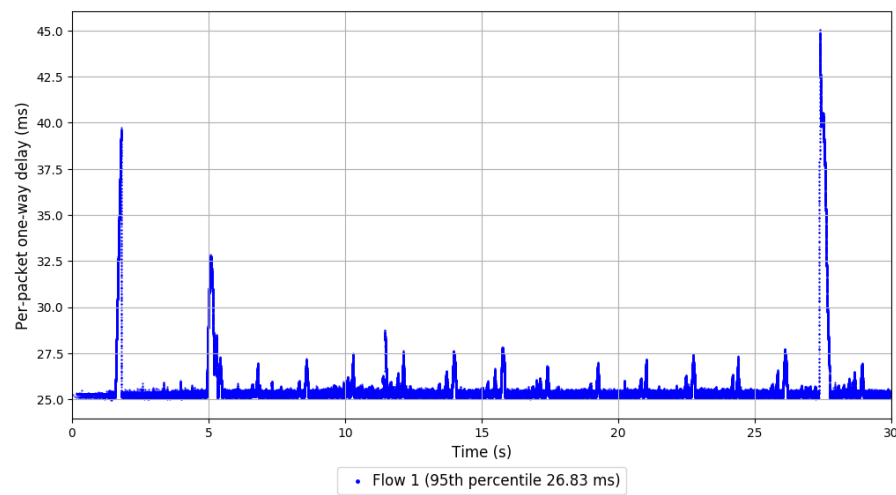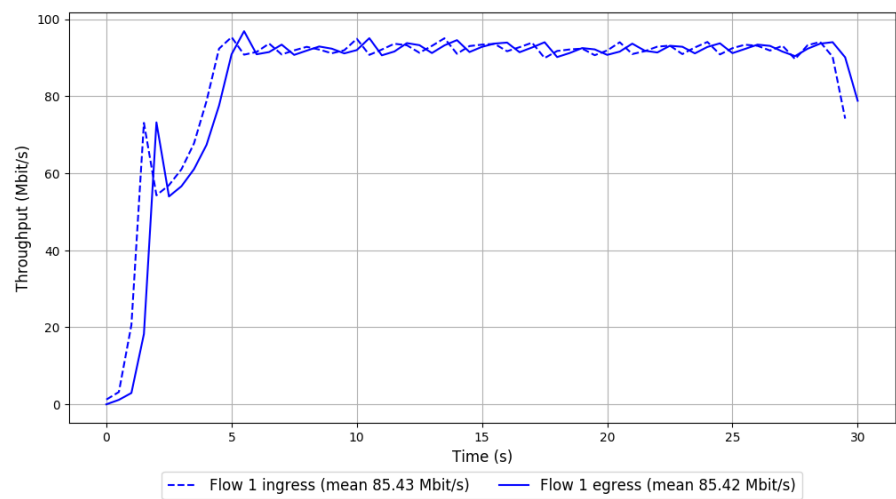

• Flow 1 (95th percentile 26.67 ms)

```
Run 2: Statistics of PCC-Vivace

Start at: 2019-06-27 02:45:05
End at: 2019-06-27 02:45:35
Local clock offset: -0.741 ms
Remote clock offset: -3.658 ms


# Below is generated by plot.py at 2019-06-27 04:42:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.42 Mbit/s
95th percentile per-packet one-way delay: 26.834 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.42 Mbit/s
95th percentile per-packet one-way delay: 26.834 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 85.43 Mbit/s) ---- Flow 1 egress (mean 85.42 Mbit/s) ——

Flow 1 (95th percentile 26.83 ms)

```
Run 3: Statistics of PCC-Vivace

Start at: 2019-06-27 03:11:50
End at: 2019-06-27 03:12:20
Local clock offset: -0.24 ms
Remote clock offset: -3.256 ms


# Below is generated by plot.py at 2019-06-27 04:42:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.72 Mbit/s
95th percentile per-packet one-way delay: 31.756 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.72 Mbit/s
95th percentile per-packet one-way delay: 31.756 ms
Loss rate: 0.00%
```
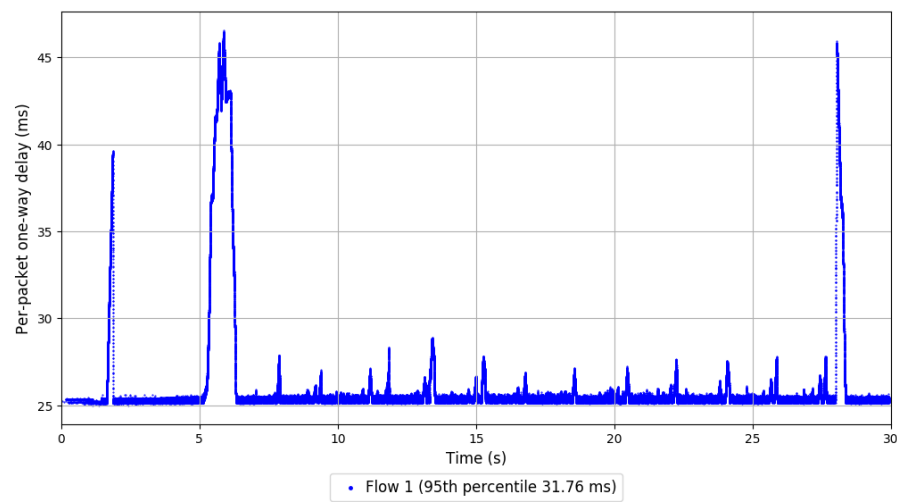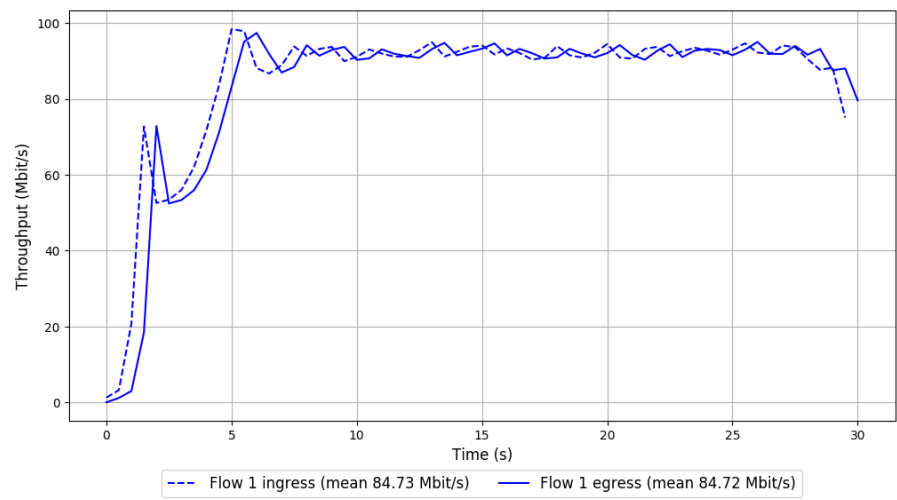
Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 84.73 Mbit/s) — — — Flow 1 egress (mean 84.72 Mbit/s)

Flow 1 (95th percentile 31.76 ms)

```
Run 4: Statistics of PCC-Vivace

Start at: 2019-06-27 03:39:47
End at: 2019-06-27 03:40:17
Local clock offset: 0.021 ms
Remote clock offset: -2.885 ms


# Below is generated by plot.py at 2019-06-27 04:42:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.78 Mbit/s
95th percentile per-packet one-way delay: 36.163 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.78 Mbit/s
95th percentile per-packet one-way delay: 36.163 ms
Loss rate: 0.00%
```
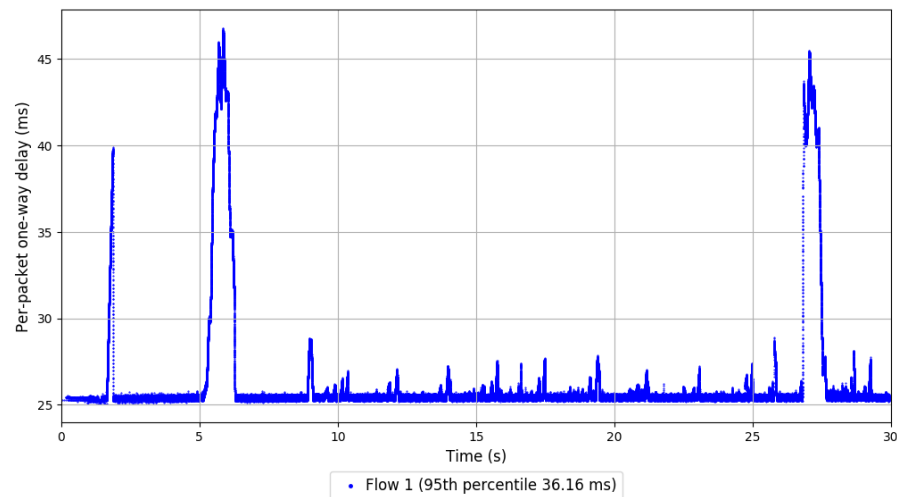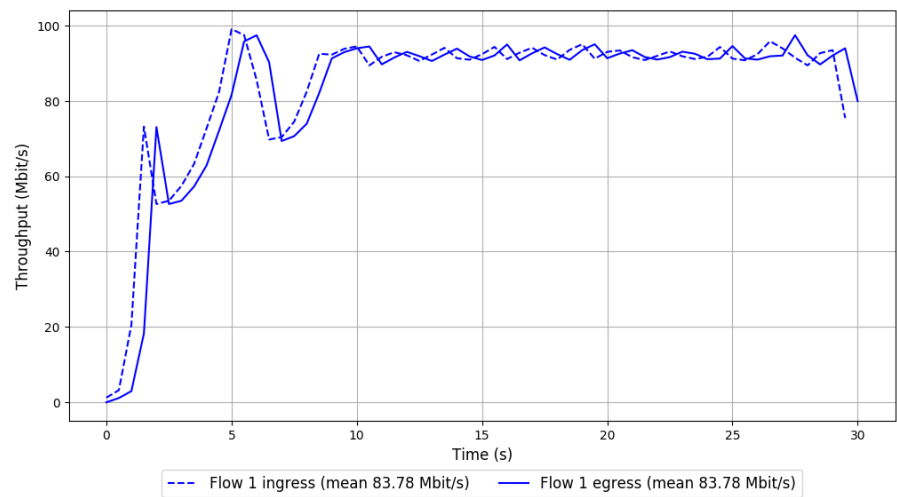
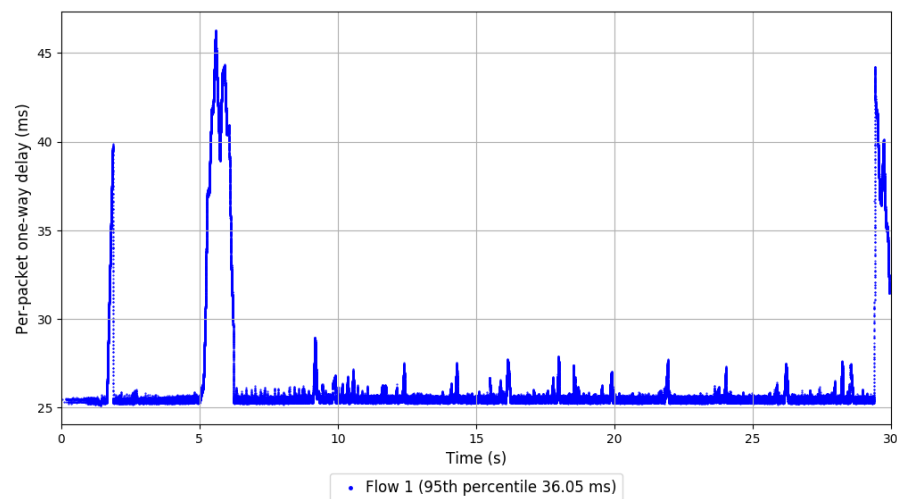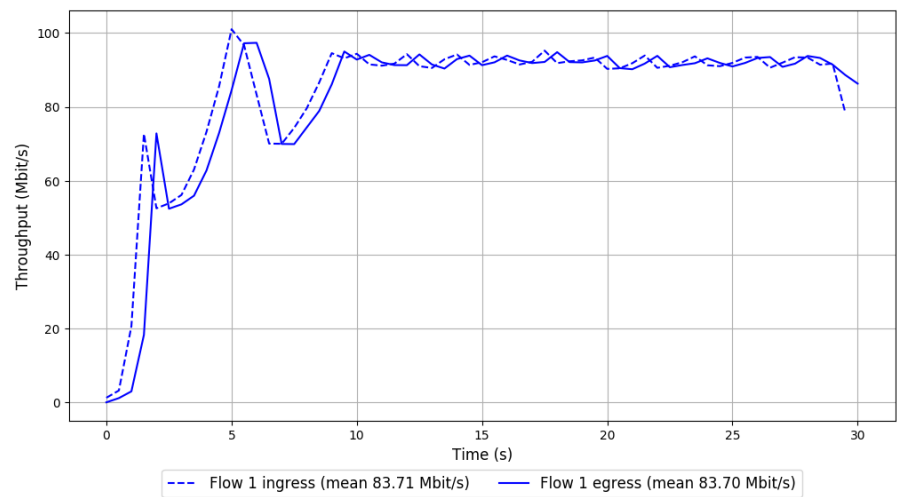Run 4: Report of PCC-Vivace — Data Link

```
Run 5: Statistics of PCC-Vivace

Start at: 2019-06-27 04:06:26
End at: 2019-06-27 04:06:56
Local clock offset: -3.185 ms
Remote clock offset: -2.799 ms


# Below is generated by plot.py at 2019-06-27 04:42:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.70 Mbit/s
95th percentile per-packet one-way delay: 36.052 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.70 Mbit/s
95th percentile per-packet one-way delay: 36.052 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 83.71 Mbit/s) — — — Flow 1 egress (mean 83.70 Mbit/s)

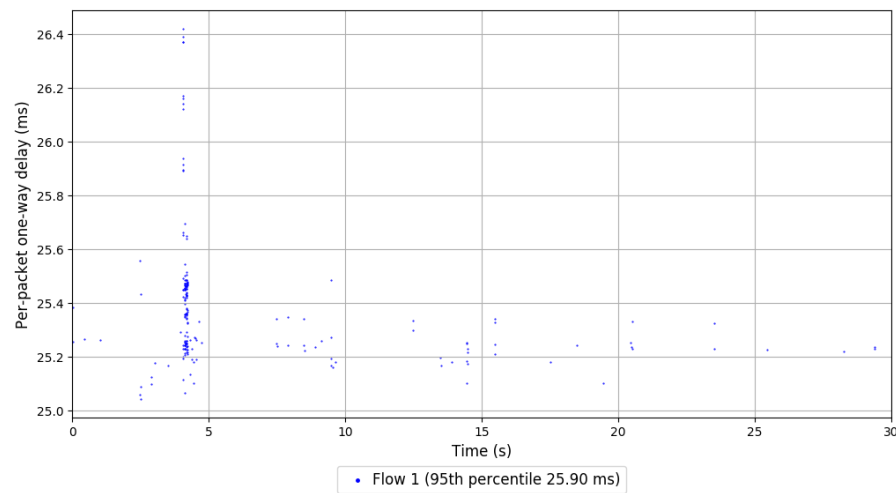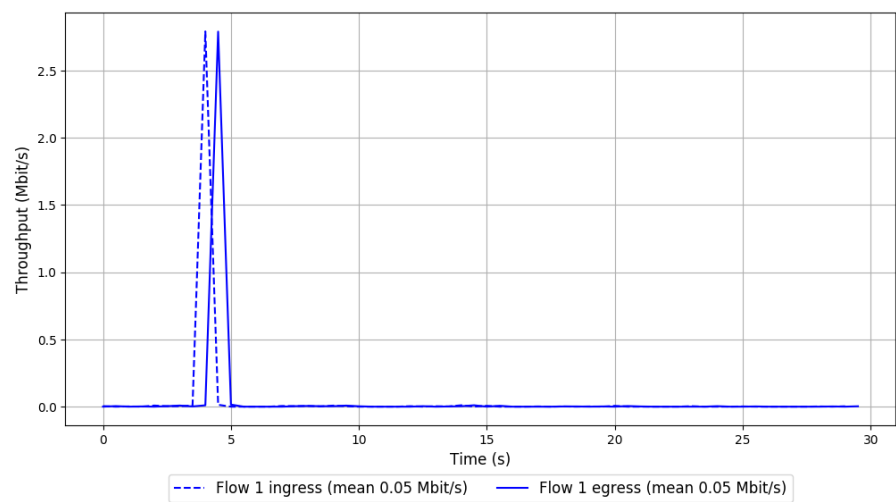

• Flow 1 (95th percentile 36.05 ms)

```
Run 1: Statistics of WebRTC media

Start at: 2019-06-27 02:41:26
End at: 2019-06-27 02:41:56
Local clock offset: -0.697 ms
Remote clock offset: -3.665 ms


# Below is generated by plot.py at 2019-06-27 04:42:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.896 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.896 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2019-06-27 03:07:59
End at: 2019-06-27 03:08:29
Local clock offset: -0.215 ms
Remote clock offset: -3.26 ms


# Below is generated by plot.py at 2019-06-27 04:42:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.929 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.929 ms
Loss rate: 0.00%
```
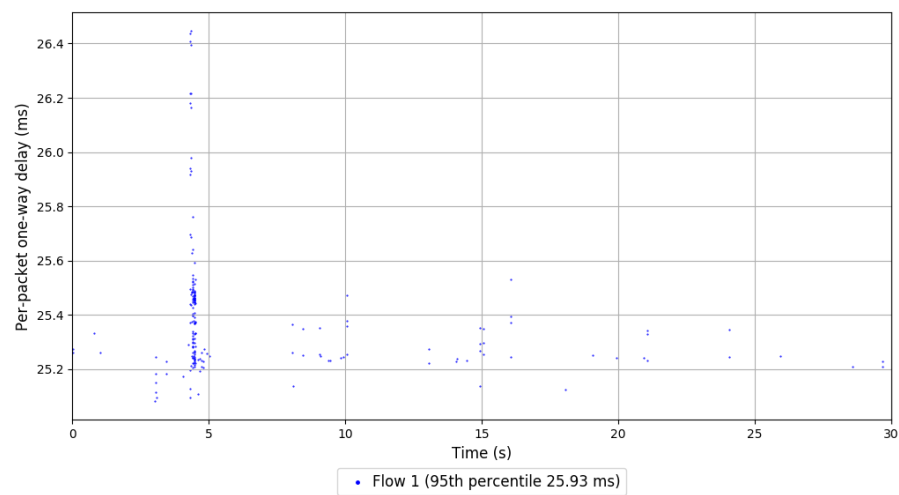
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2019-06-27 03:35:55
End at: 2019-06-27 03:36:25
Local clock offset: 0.012 ms
Remote clock offset: -2.945 ms


# Below is generated by plot.py at 2019-06-27 04:42:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.997 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.997 ms
Loss rate: 0.00%
```
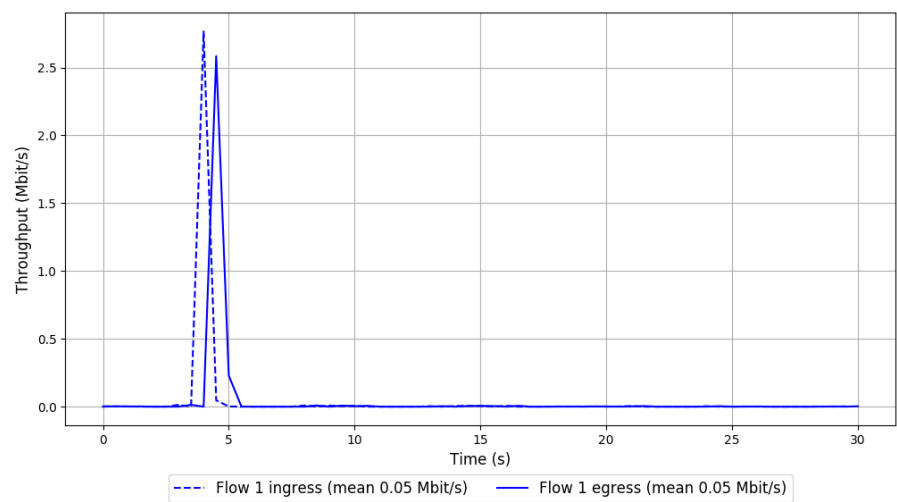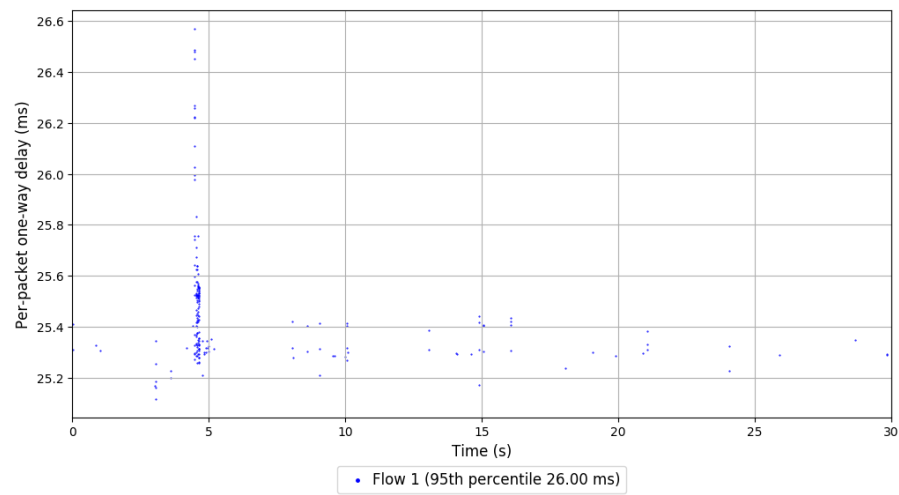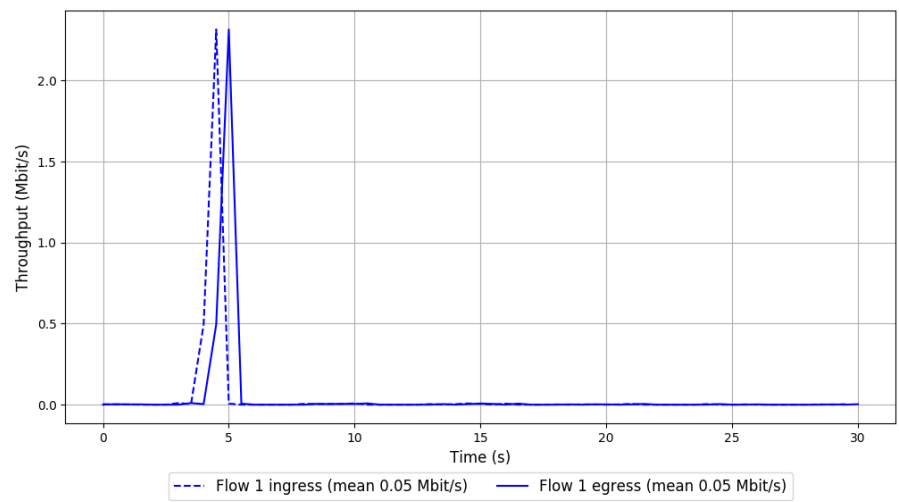
Run 3: Report of WebRTC media — Data Link

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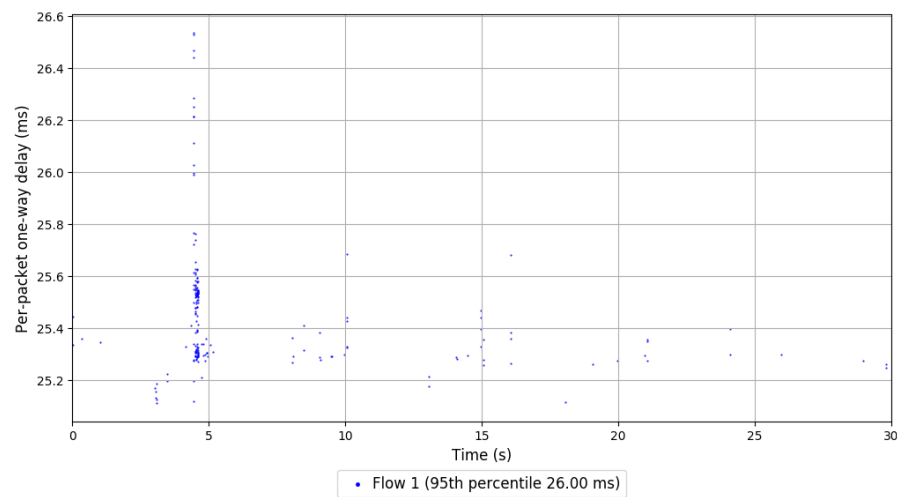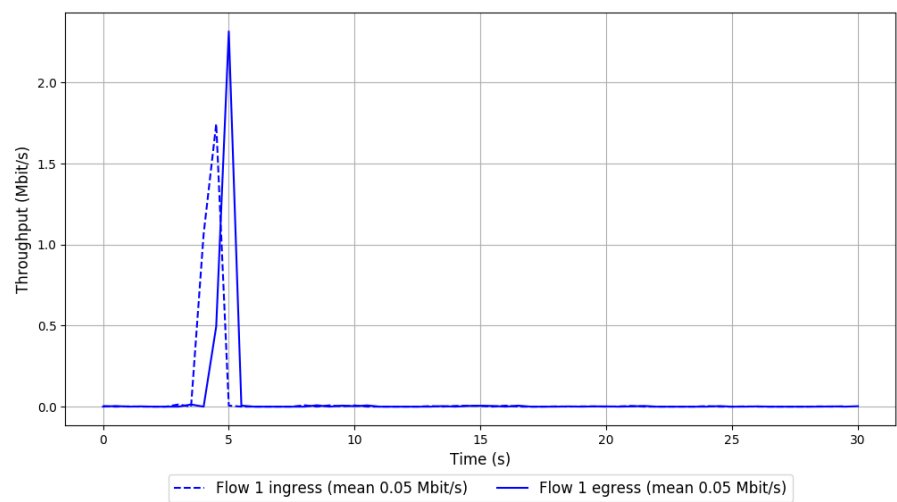

Flow 1 (95th percentile 26.00 ms)

```
Run 4: Statistics of WebRTC media

Start at: 2019-06-27 04:02:50
End at: 2019-06-27 04:03:20
Local clock offset: -2.848 ms
Remote clock offset: -2.707 ms


# Below is generated by plot.py at 2019-06-27 04:42:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.997 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.997 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2019-06-27 04:29:09
End at: 2019-06-27 04:29:39
Local clock offset: -3.378 ms
Remote clock offset: -3.317 ms


# Below is generated by plot.py at 2019-06-27 04:42:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.966 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 25.966 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link