Pantheon Report

Generated at 2020-04-16 09:24:49 (UTC).

Data path: GCE Tokyo on `ens4` (*local*) →GCE London on `ens4` (*remote*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.
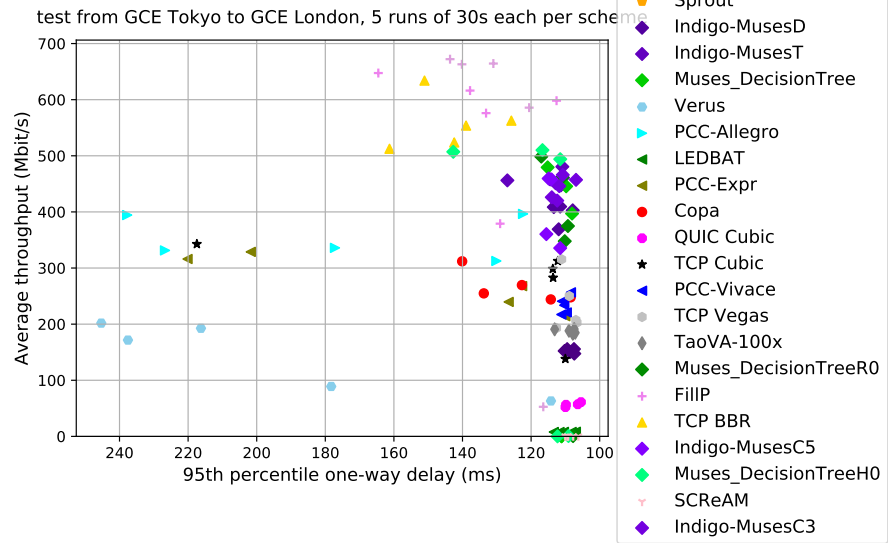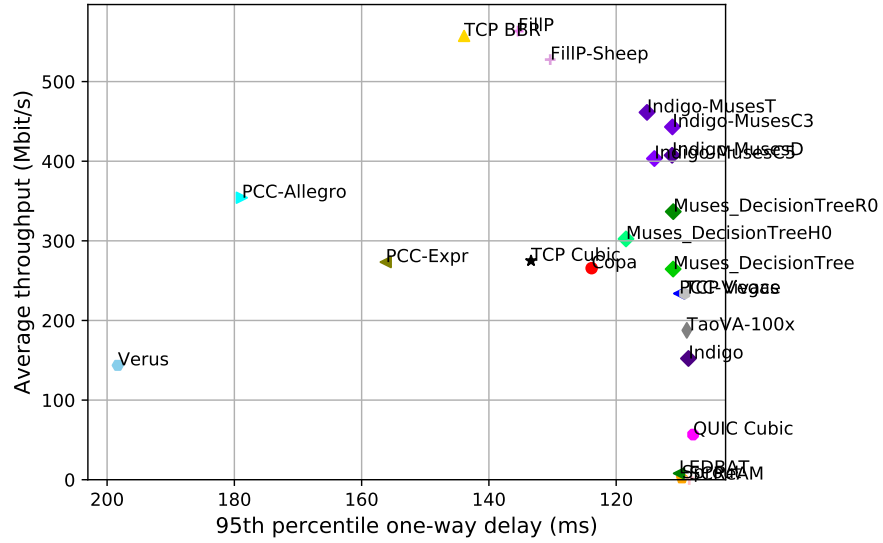
```
System info:
Linux 5.0.0-1031-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
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 @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
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 GCE Tokyo to GCE London, 5 runs of 30s each per scheme
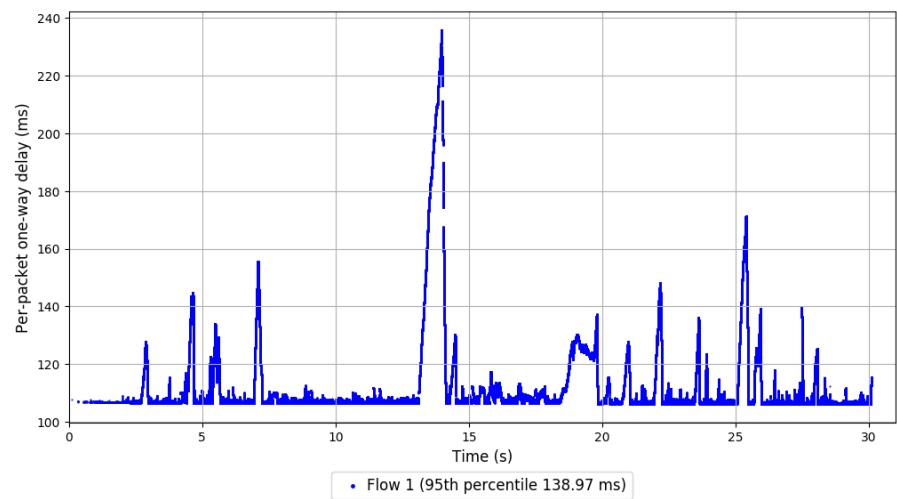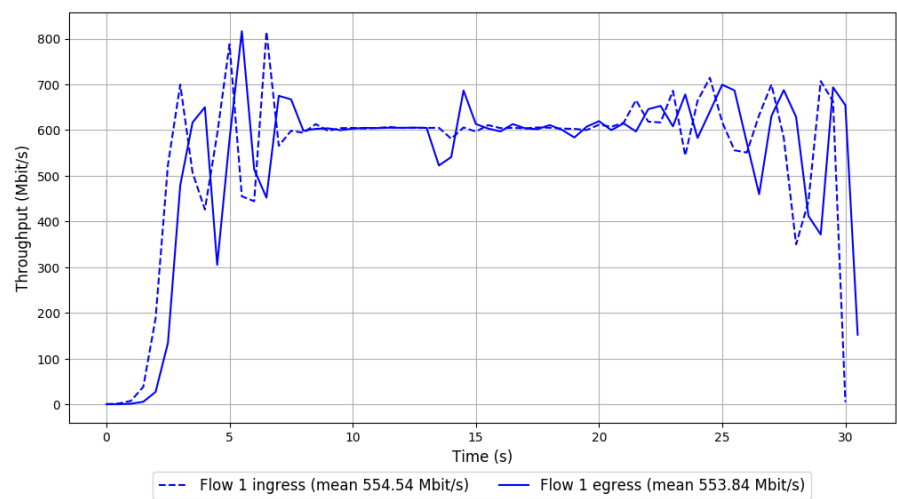(mean of all runs by scheme)

test from GCE Tokyo to GCE London, 5 runs of 30s each per scheme

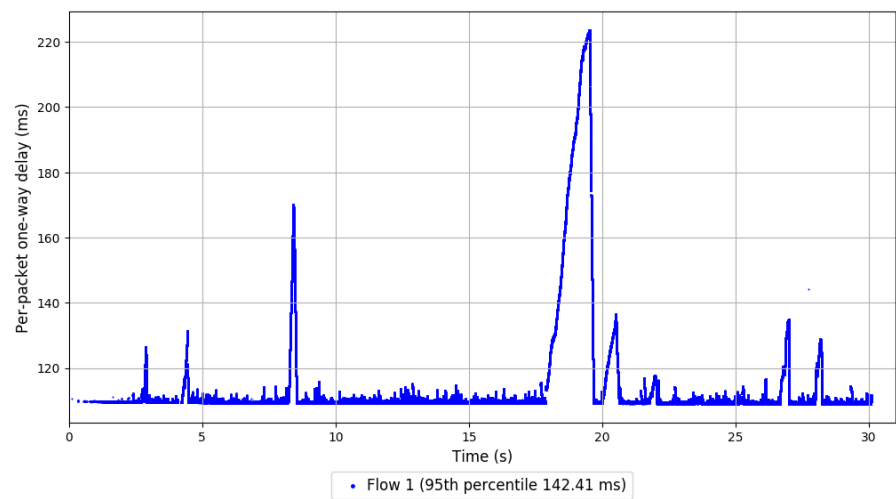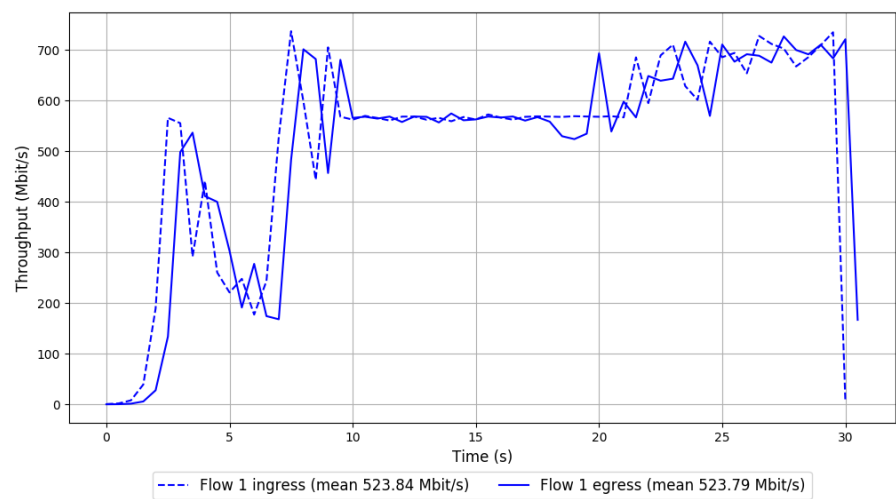| scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	557.37	143.90	0.14
Copa	5	265.65	123.86	0.00
TCP Cubic	5	274.91	133.38	0.05
FillP	5	563.39	135.42	0.09
FillP-Sheep	5	527.62	130.37	0.06
Indigo	5	152.25	108.65	0.01
Indigo-MusesC3	5	443.07	111.16	0.00
Indigo-MusesC5	4	403.32	114.00	0.00
Indigo-MusesD	5	407.45	111.21	0.01
Indigo-MusesT	5	461.32	115.16	0.00
LEDBAT	5	7.95	110.14	0.00
Muses_DecisionTree	5	264.54	111.05	0.17
Muses_DecisionTreeH0	5	302.39	118.46	0.03
Muses_DecisionTreeR0	5	336.67	111.03	0.00
PCC-Allegro	5	354.14	178.83	1.22
PCC-Expr	5	273.30	156.22	0.55
QUIC Cubic	4	56.71	107.91	0.00
SCReAM	5	0.21	108.52	0.00
Sprout	5	1.97	109.67	0.00
TaoVA-100x	5	187.58	108.90	0.00
TCP Vegas	5	233.74	109.24	0.00
Verus	5	143.64	198.32	0.81
PCC-Vivace	5	233.85	110.10	0.00
WebRTC media	0	N/A	N/A	N/A

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```
Run 1: Statistics of TCP BBR

Start at: 2020-04-16 04:26:07
End at: 2020-04-16 04:26:37
Local clock offset: -0.883 ms
Remote clock offset: 15.506 ms

# Below is generated by plot.py at 2020-04-16 07:20:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 553.84 Mbit/s
95th percentile per-packet one-way delay: 138.965 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 553.84 Mbit/s
95th percentile per-packet one-way delay: 138.965 ms
Loss rate: 0.13%
```
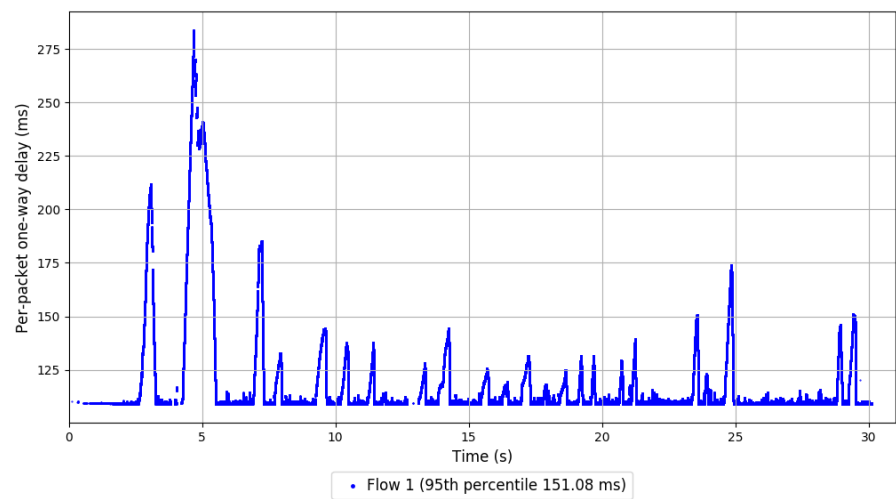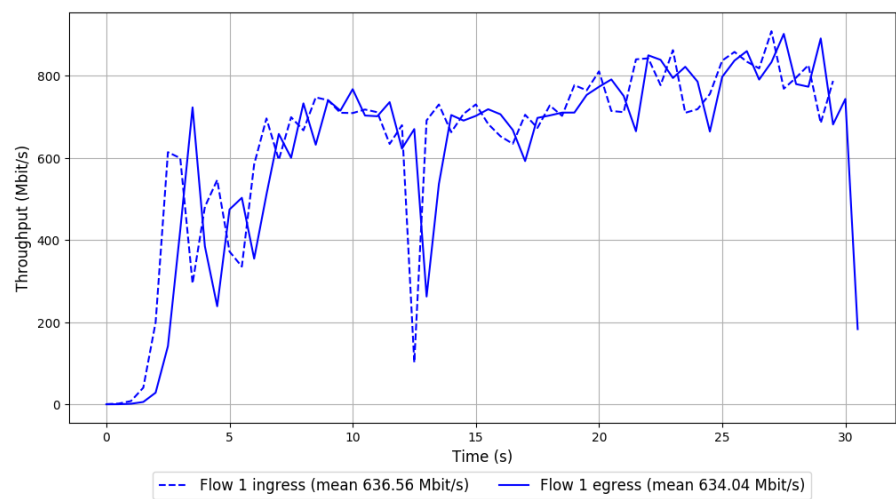
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2020-04-16 05:00:51
End at: 2020-04-16 05:01:21
Local clock offset: -0.204 ms
Remote clock offset: 32.013 ms

# Below is generated by plot.py at 2020-04-16 07:20:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 523.79 Mbit/s
95th percentile per-packet one-way delay: 142.405 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 523.79 Mbit/s
95th percentile per-packet one-way delay: 142.405 ms
Loss rate: 0.01%
```
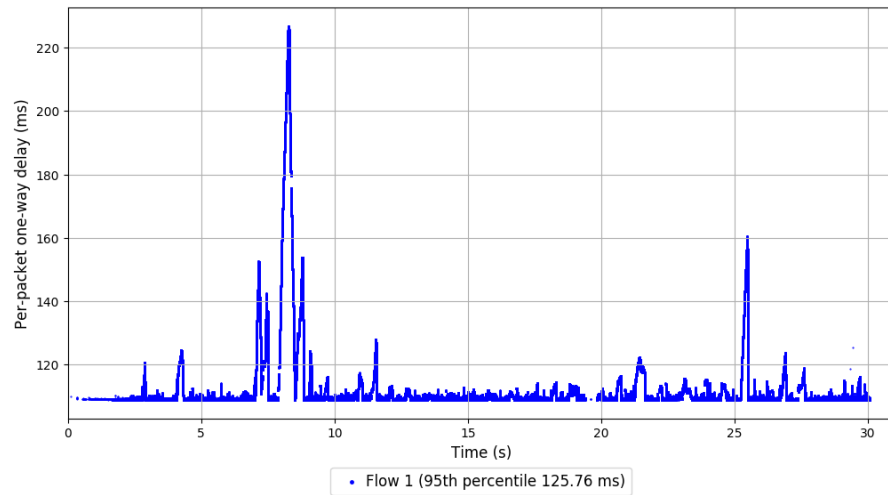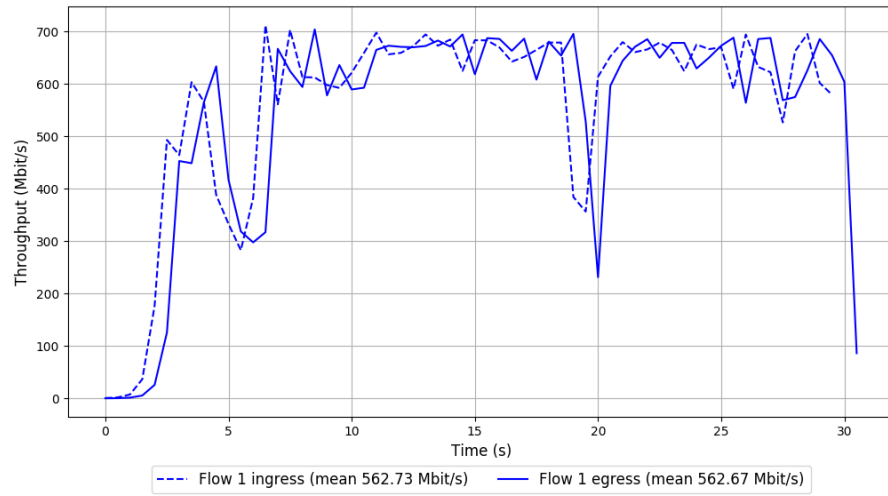
Run 2: Report of TCP BBR — Data Link

Flow 1 ingress (mean 523.84 Mbit/s)   Flow 1 egress (mean 523.79 Mbit/s)

Flow 1 (95th percentile 142.41 ms)

```
Run 3: Statistics of TCP BBR

Start at: 2020-04-16 05:35:15
End at: 2020-04-16 05:35:45
Local clock offset: 0.372 ms
Remote clock offset: 17.319 ms


# Below is generated by plot.py at 2020-04-16 07:22:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 634.04 Mbit/s
95th percentile per-packet one-way delay: 151.078 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 634.04 Mbit/s
95th percentile per-packet one-way delay: 151.078 ms
Loss rate: 0.40%
```
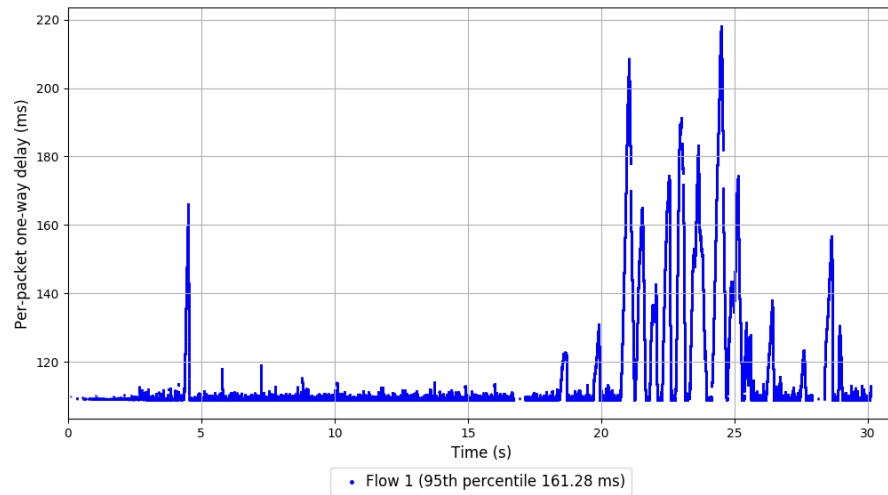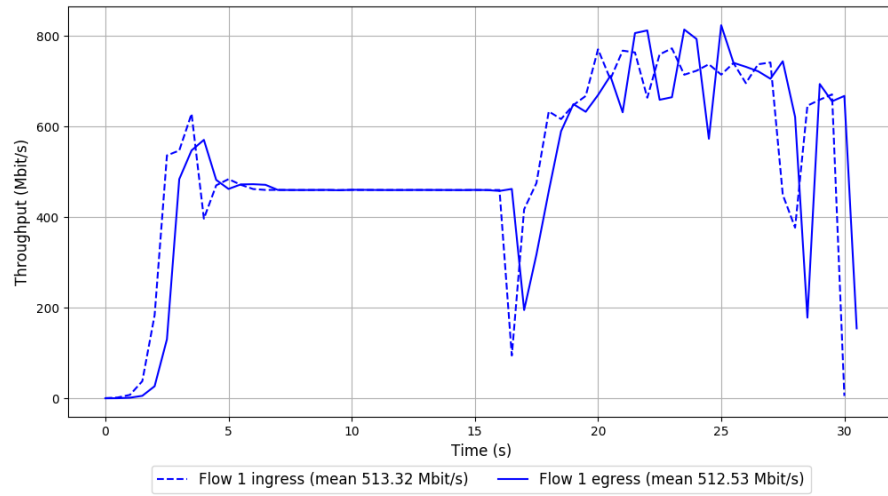
Run 3: Report of TCP BBR — Data Link

```
Run 4: Statistics of TCP BBR

Start at: 2020-04-16 06:10:33
End at: 2020-04-16 06:11:03
Local clock offset: 0.03 ms
Remote clock offset: 8.511 ms


# Below is generated by plot.py at 2020-04-16 07:22:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 562.67 Mbit/s
95th percentile per-packet one-way delay: 125.756 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 562.67 Mbit/s
95th percentile per-packet one-way delay: 125.756 ms
Loss rate: 0.02%
```
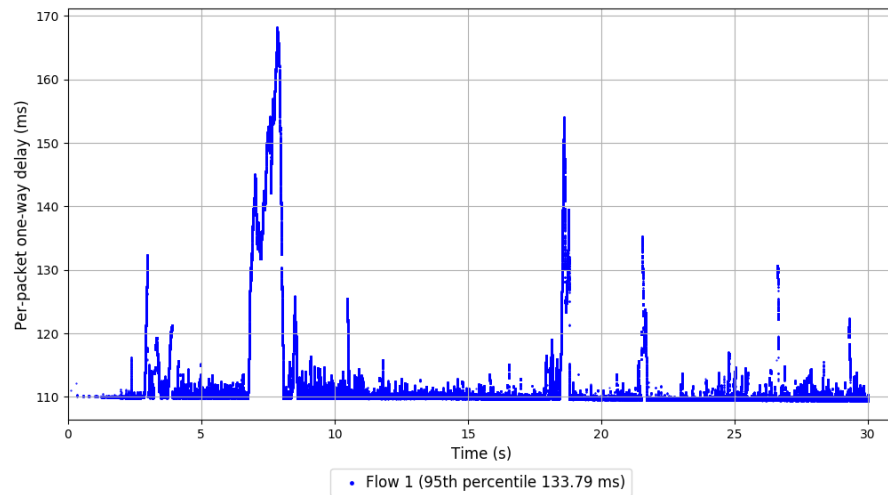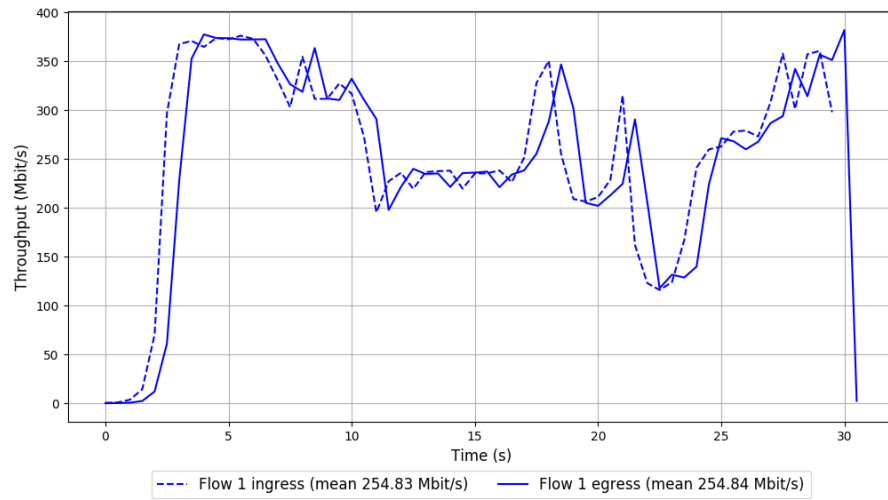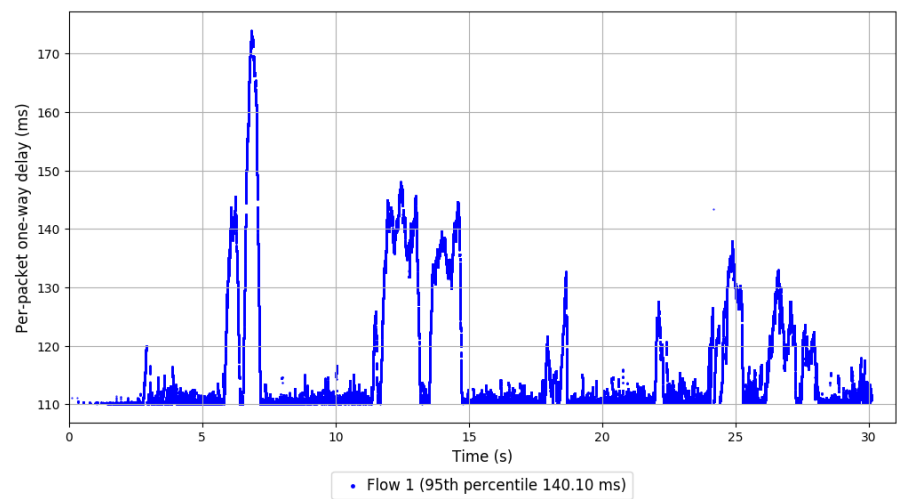
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 562.73 Mbit/s)   Flow 1 egress (mean 562.67 Mbit/s)

Flow 1 (95th percentile 125.76 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2020-04-16 06:44:48
End at: 2020-04-16 06:45:18
Local clock offset: -0.048 ms
Remote clock offset: 8.399 ms


# Below is generated by plot.py at 2020-04-16 07:22:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 512.53 Mbit/s
95th percentile per-packet one-way delay: 161.281 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 512.53 Mbit/s
95th percentile per-packet one-way delay: 161.281 ms
Loss rate: 0.16%
```

Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 513.32 Mbit/s)   Flow 1 egress (mean 512.53 Mbit/s)
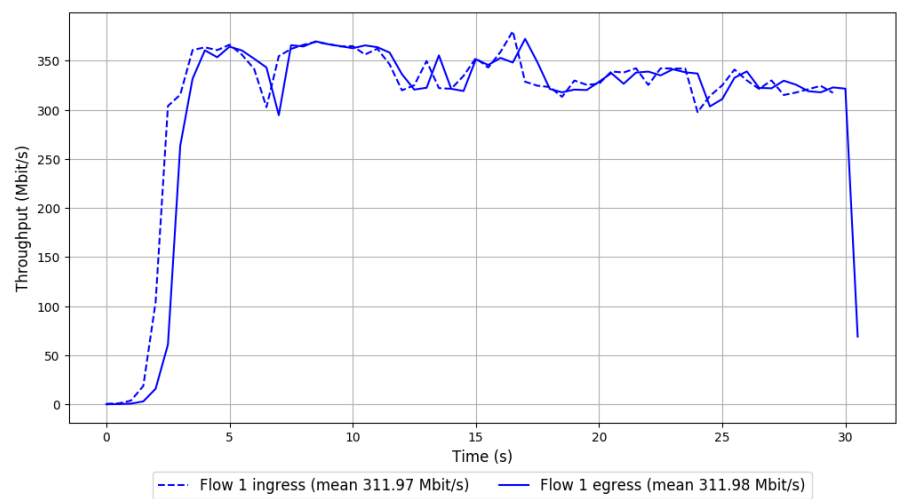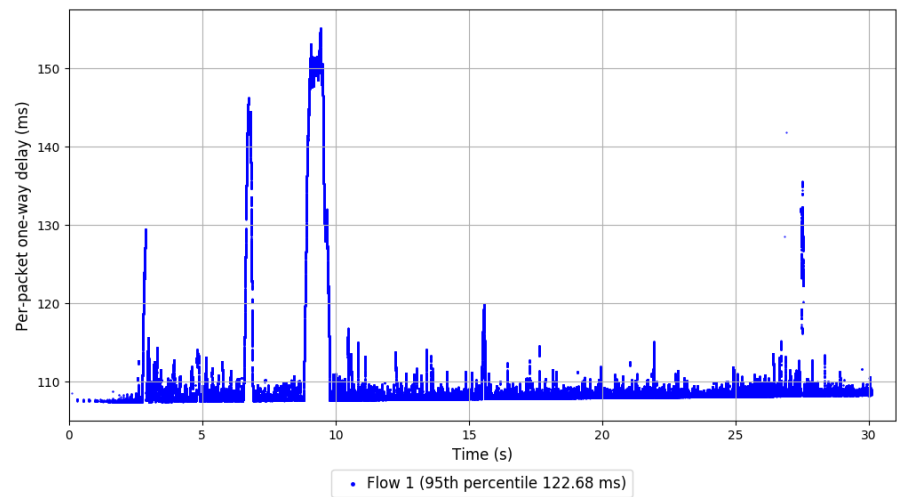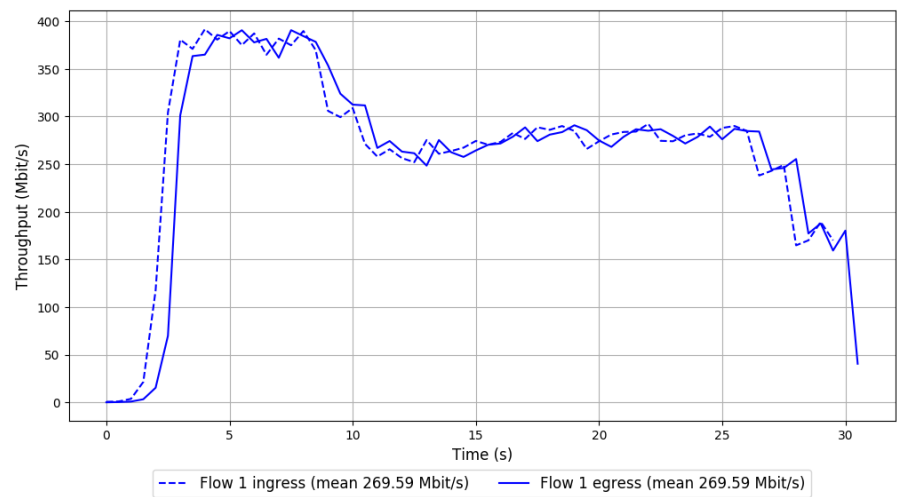

Flow 1 (95th percentile 161.28 ms)

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```
Run 1: Statistics of Copa

Start at: 2020-04-16 04:06:33
End at: 2020-04-16 04:07:03
Local clock offset: -0.131 ms
Remote clock offset: 6.096 ms

# Below is generated by plot.py at 2020-04-16 07:22:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.84 Mbit/s
95th percentile per-packet one-way delay: 133.787 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 254.84 Mbit/s
95th percentile per-packet one-way delay: 133.787 ms
Loss rate: 0.00%
```

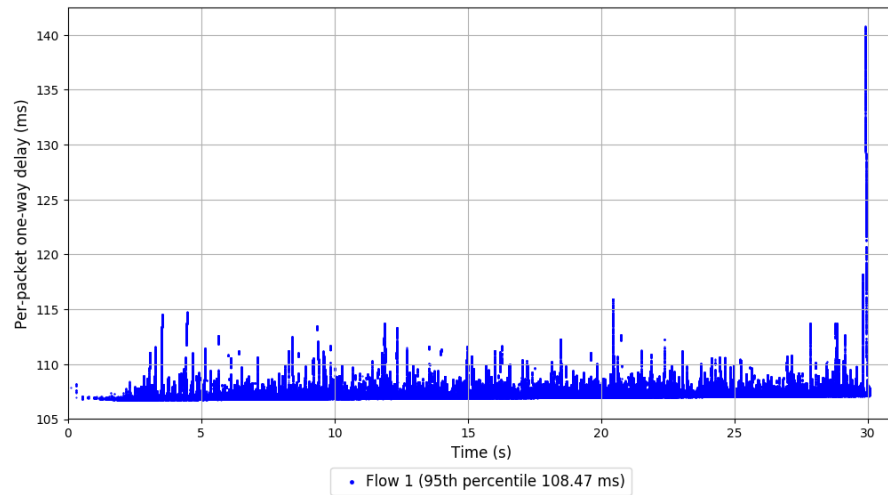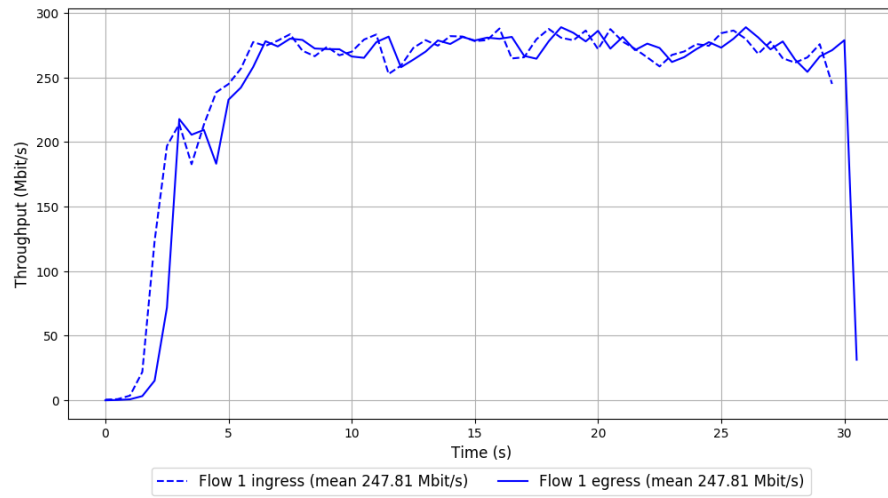Run 1: Report of Copa — Data Link

- - - Flow 1 ingress (mean 254.83 Mbit/s)   —— Flow 1 egress (mean 254.84 Mbit/s)

• Flow 1 (95th percentile 133.79 ms)

```
Run 2: Statistics of Copa

Start at: 2020-04-16 04:40:50
End at: 2020-04-16 04:41:20
Local clock offset: -0.227 ms
Remote clock offset: 21.256 ms


# Below is generated by plot.py at 2020-04-16 07:22:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 311.98 Mbit/s
95th percentile per-packet one-way delay: 140.101 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 311.98 Mbit/s
95th percentile per-packet one-way delay: 140.101 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 311.97 Mbit/s)   Flow 1 egress (mean 311.98 Mbit/s)

Flow 1 (95th percentile 140.10 ms)

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```
Run 3: Statistics of Copa

Start at: 2020-04-16 05:15:13
End at: 2020-04-16 05:15:43
Local clock offset: -0.357 ms
Remote clock offset: 24.94 ms


# Below is generated by plot.py at 2020-04-16 07:22:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 269.59 Mbit/s
95th percentile per-packet one-way delay: 122.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 269.59 Mbit/s
95th percentile per-packet one-way delay: 122.676 ms
Loss rate: 0.00%
```
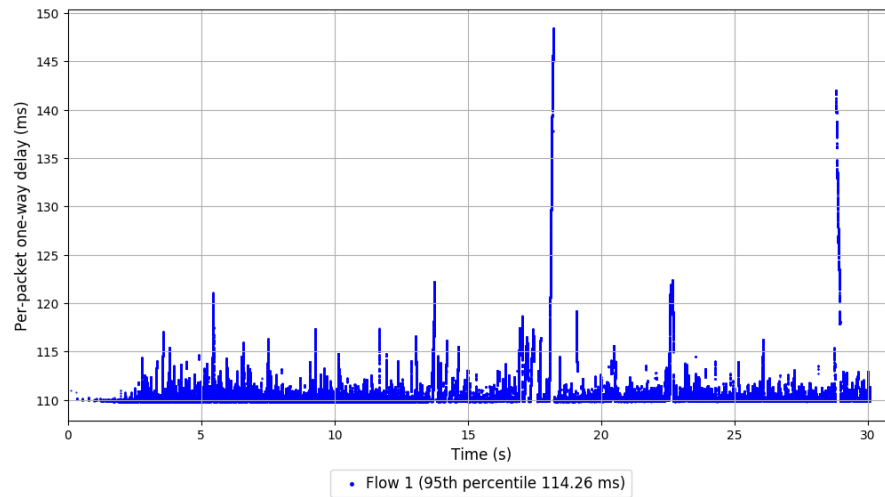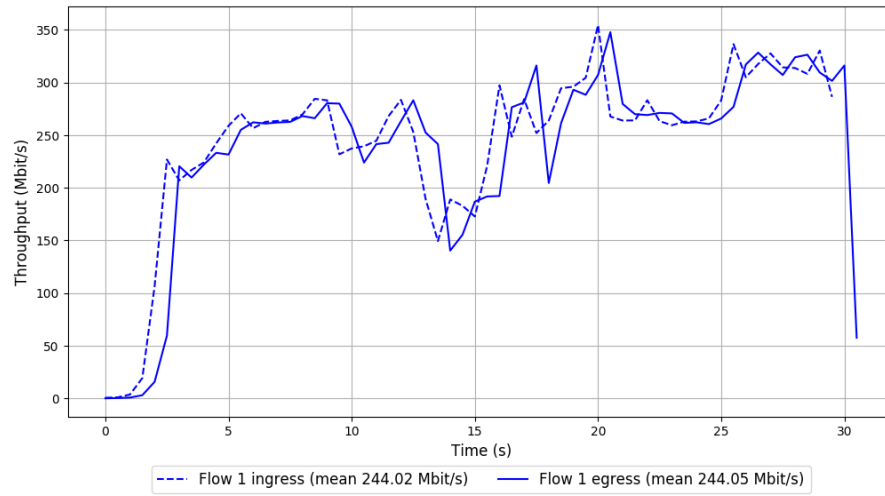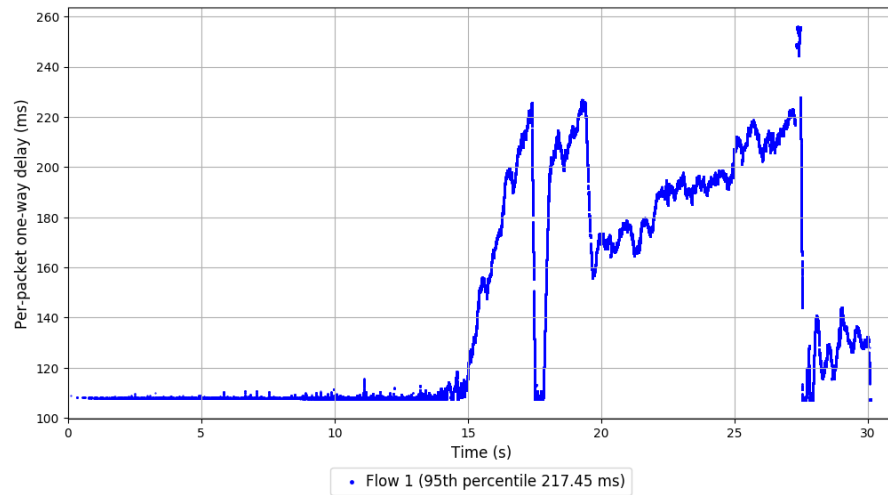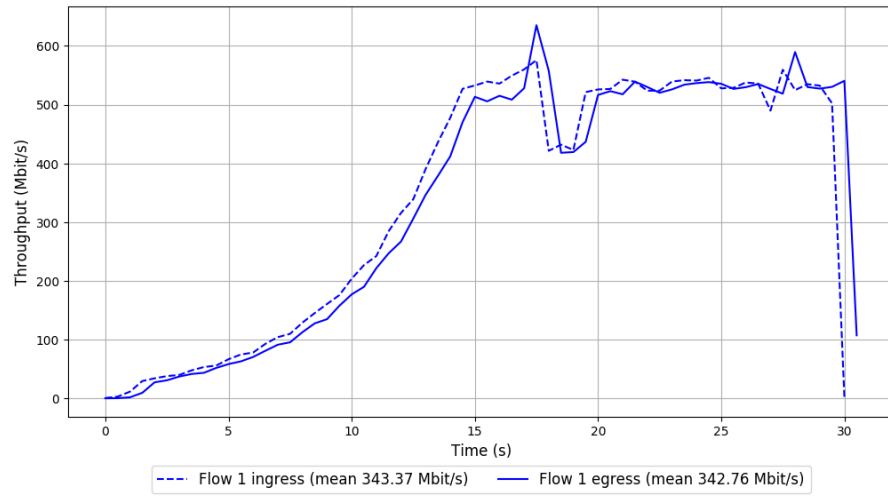
Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 269.59 Mbit/s) ---- Flow 1 egress (mean 269.59 Mbit/s)

• Flow 1 (95th percentile 122.68 ms)

```
Run 4: Statistics of Copa

Start at: 2020-04-16 05:50:25
End at: 2020-04-16 05:50:55
Local clock offset: 0.118 ms
Remote clock offset: 11.451 ms


# Below is generated by plot.py at 2020-04-16 07:31:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.81 Mbit/s
95th percentile per-packet one-way delay: 108.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 247.81 Mbit/s
95th percentile per-packet one-way delay: 108.468 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2020-04-16 06:25:13
End at: 2020-04-16 06:25:43
Local clock offset: -0.527 ms
Remote clock offset: 5.794 ms


# Below is generated by plot.py at 2020-04-16 07:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.05 Mbit/s
95th percentile per-packet one-way delay: 114.259 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 244.05 Mbit/s
95th percentile per-packet one-way delay: 114.259 ms
Loss rate: 0.00%
```
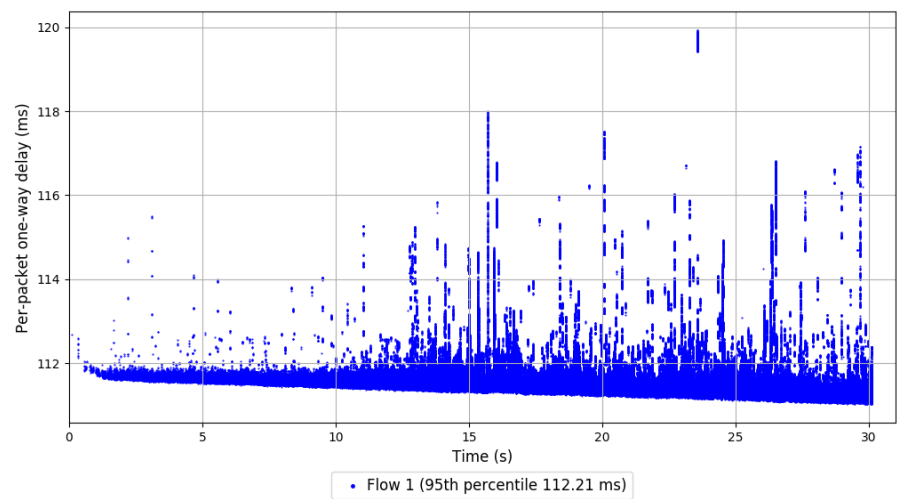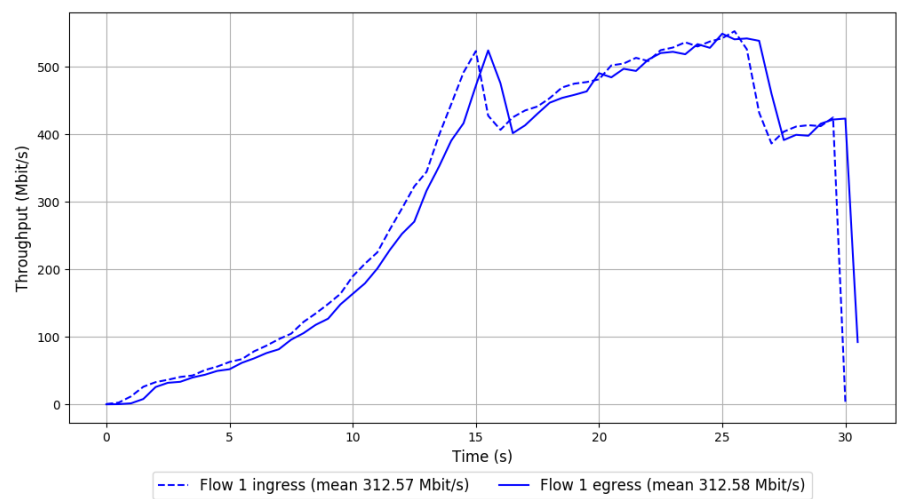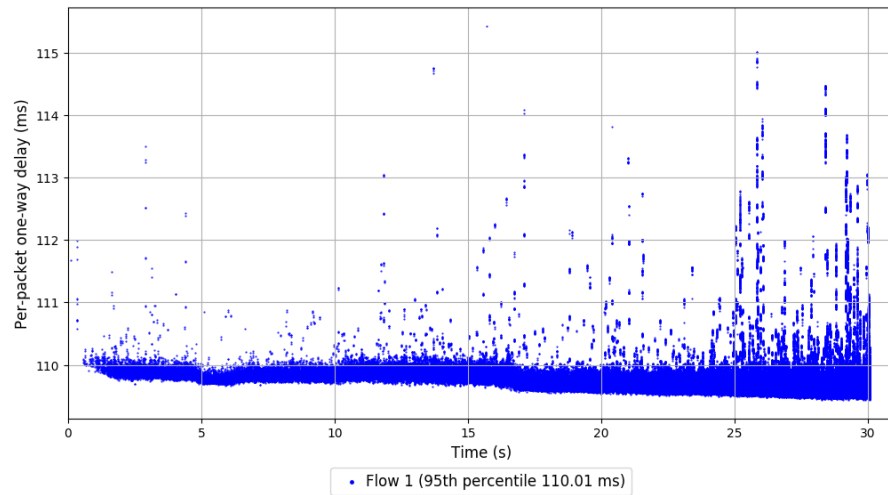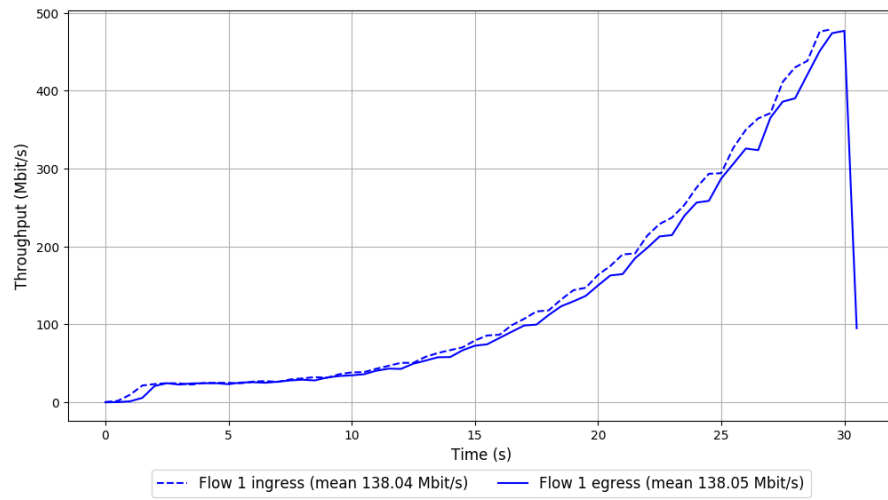
Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 244.02 Mbit/s)   Flow 1 egress (mean 244.05 Mbit/s)
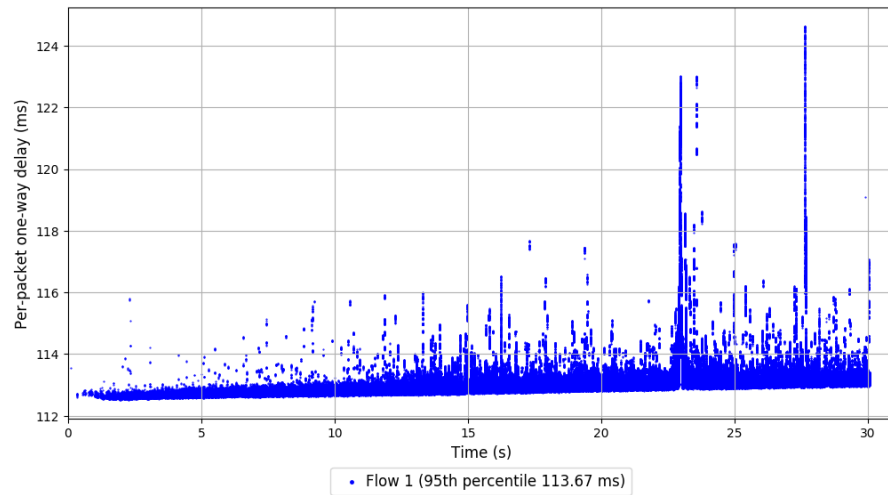

Flow 1 (95th percentile 114.26 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2020-04-16 04:33:41
End at: 2020-04-16 04:34:11
Local clock offset: 0.846 ms
Remote clock offset: 25.413 ms


# Below is generated by plot.py at 2020-04-16 07:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.76 Mbit/s
95th percentile per-packet one-way delay: 217.446 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 342.76 Mbit/s
95th percentile per-packet one-way delay: 217.446 ms
Loss rate: 0.19%
```

Run 1: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 343.37 Mbit/s) Flow 1 egress (mean 342.76 Mbit/s)
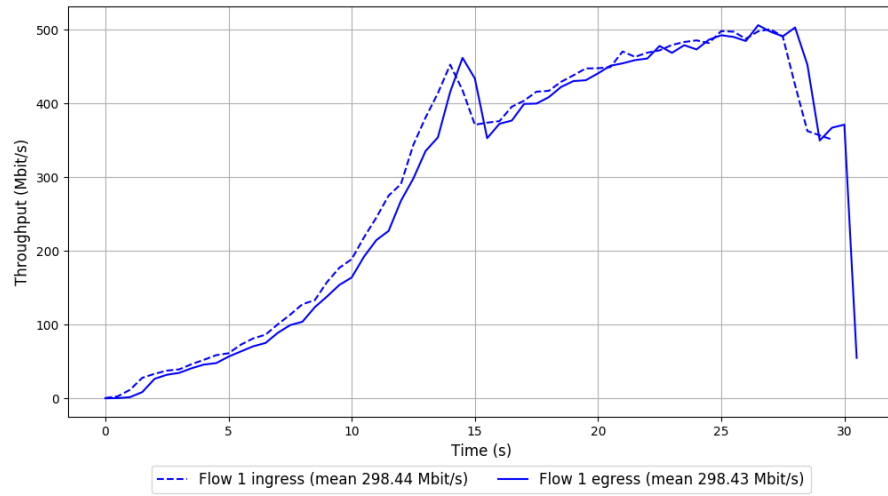

• Flow 1 (95th percentile 217.45 ms)

```
Run 2: Statistics of TCP Cubic

Start at: 2020-04-16 05:07:57
End at: 2020-04-16 05:08:27
Local clock offset: -0.902 ms
Remote clock offset: 39.81 ms


# Below is generated by plot.py at 2020-04-16 07:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.58 Mbit/s
95th percentile per-packet one-way delay: 112.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 312.58 Mbit/s
95th percentile per-packet one-way delay: 112.208 ms
Loss rate: 0.00%
```
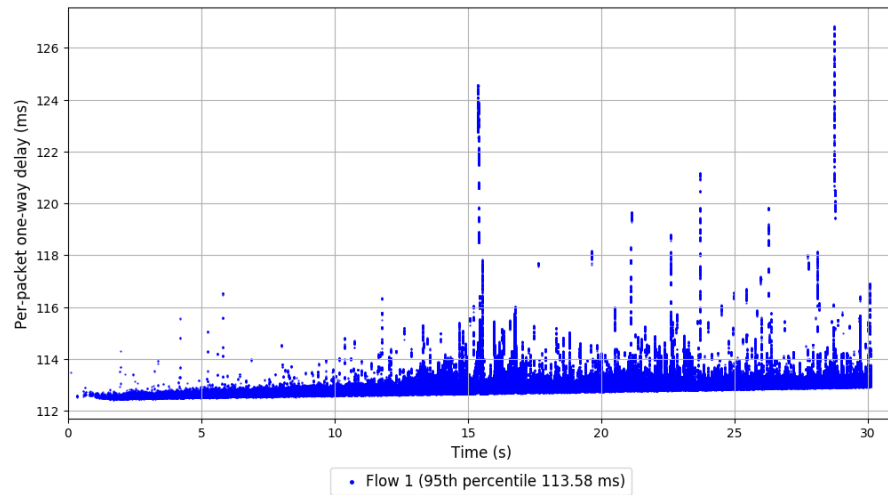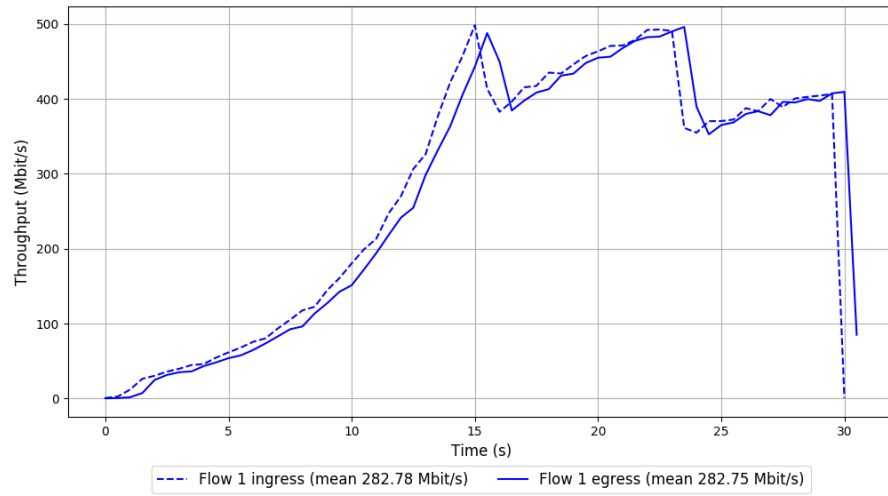
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2020-04-16 05:42:48
End at: 2020-04-16 05:43:18
Local clock offset: -0.342 ms
Remote clock offset: 20.652 ms

# Below is generated by plot.py at 2020-04-16 07:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.05 Mbit/s
95th percentile per-packet one-way delay: 110.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 138.05 Mbit/s
95th percentile per-packet one-way delay: 110.006 ms
Loss rate: 0.00%
```
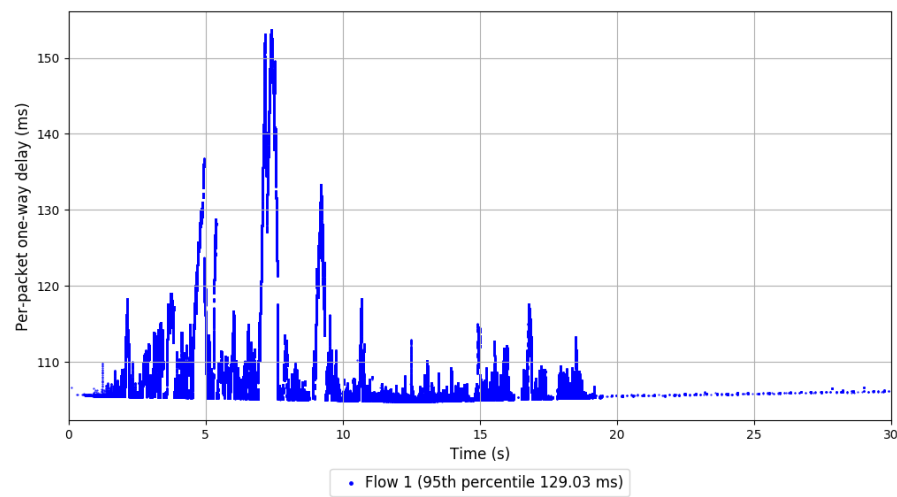
Run 3: Report of TCP Cubic — Data Link

```
Run 4: Statistics of TCP Cubic

Start at: 2020-04-16 06:17:40
End at: 2020-04-16 06:18:10
Local clock offset: -0.287 ms
Remote clock offset: 10.009 ms


# Below is generated by plot.py at 2020-04-16 07:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 298.43 Mbit/s
95th percentile per-packet one-way delay: 113.674 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 298.43 Mbit/s
95th percentile per-packet one-way delay: 113.674 ms
Loss rate: 0.02%
```
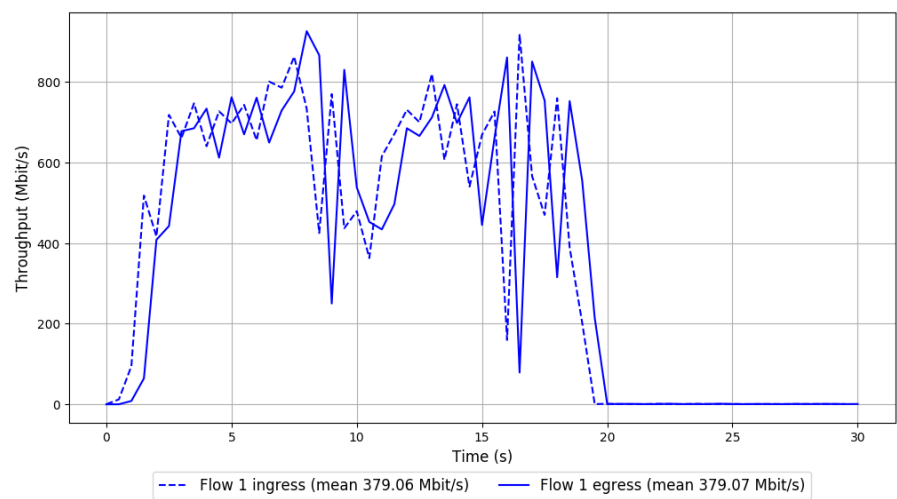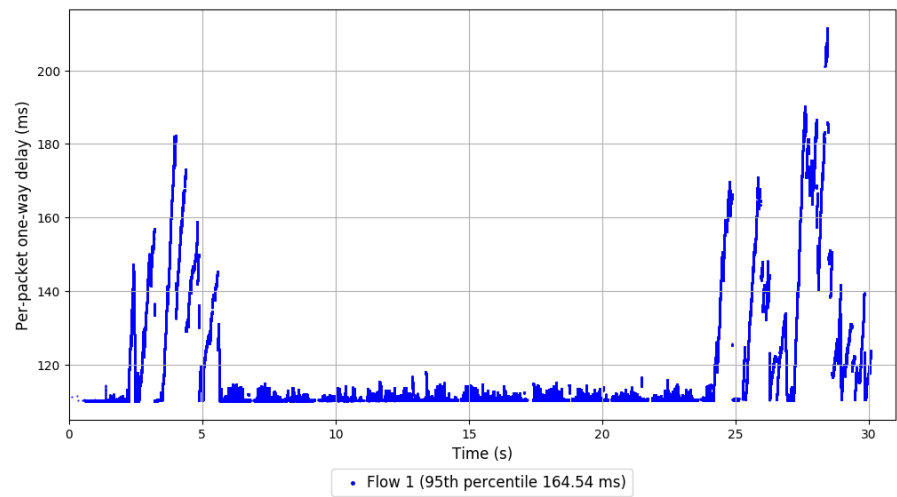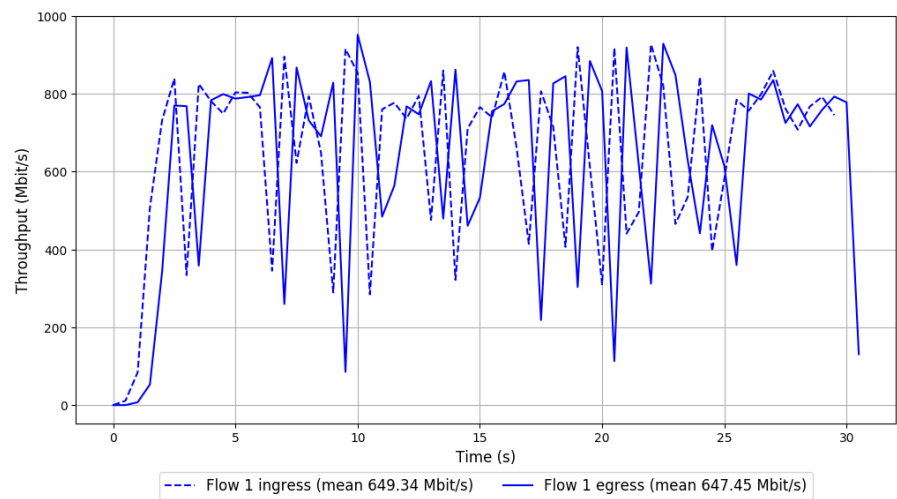
Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 298.44 Mbit/s)   Flow 1 egress (mean 298.43 Mbit/s)

Flow 1 (95th percentile 113.67 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2020-04-16 06:51:55
End at: 2020-04-16 06:52:25
Local clock offset: -0.068 ms
Remote clock offset: 10.429 ms


# Below is generated by plot.py at 2020-04-16 07:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 282.75 Mbit/s
95th percentile per-packet one-way delay: 113.584 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 282.75 Mbit/s
95th percentile per-packet one-way delay: 113.584 ms
Loss rate: 0.03%
```
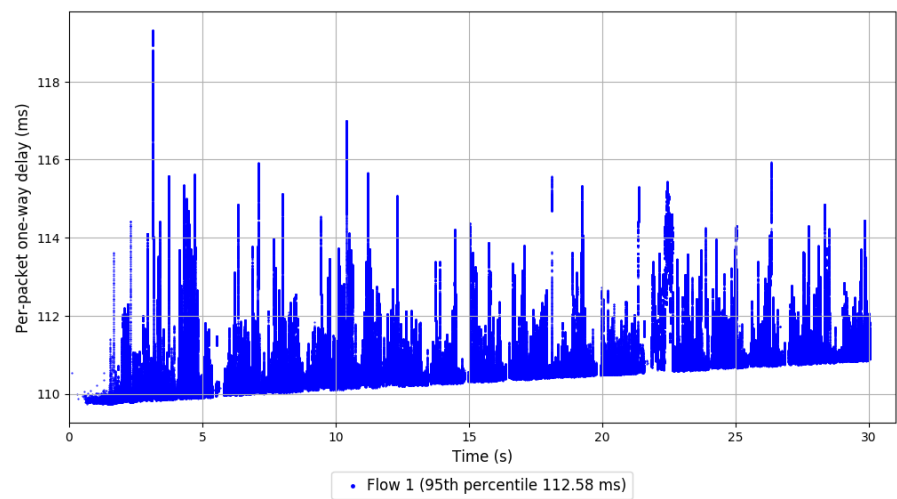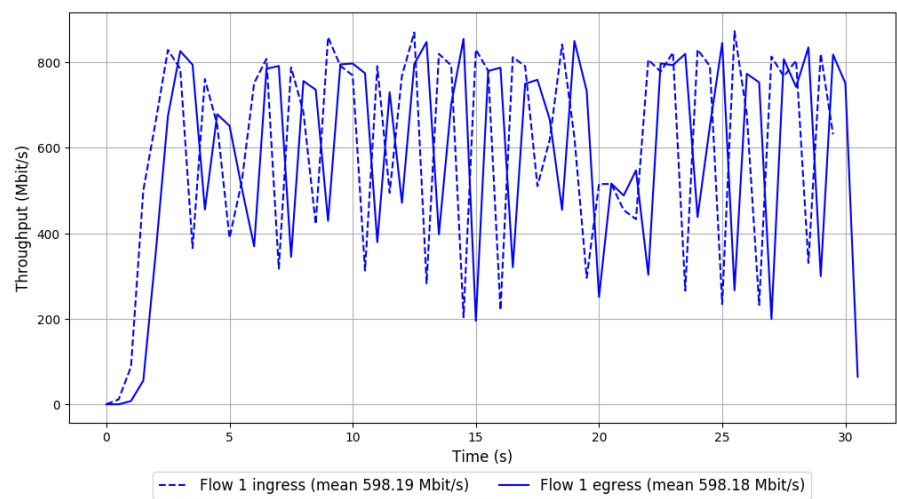
Run 5: Report of TCP Cubic — Data Link

```
Run 1: Statistics of FillP

Start at: 2020-04-16 04:05:05
End at: 2020-04-16 04:05:35
Local clock offset: 0.162 ms
Remote clock offset: 6.707 ms


# Below is generated by plot.py at 2020-04-16 07:34:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 379.07 Mbit/s
95th percentile per-packet one-way delay: 129.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 379.07 Mbit/s
95th percentile per-packet one-way delay: 129.032 ms
Loss rate: 0.00%
```
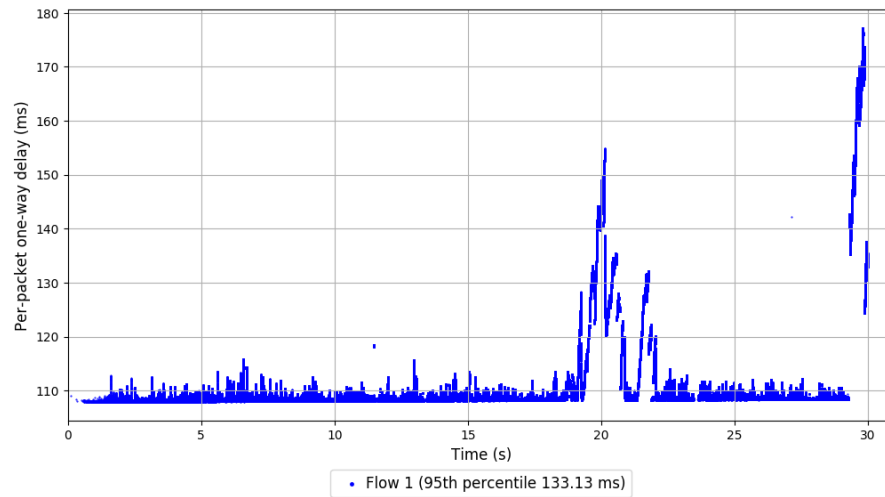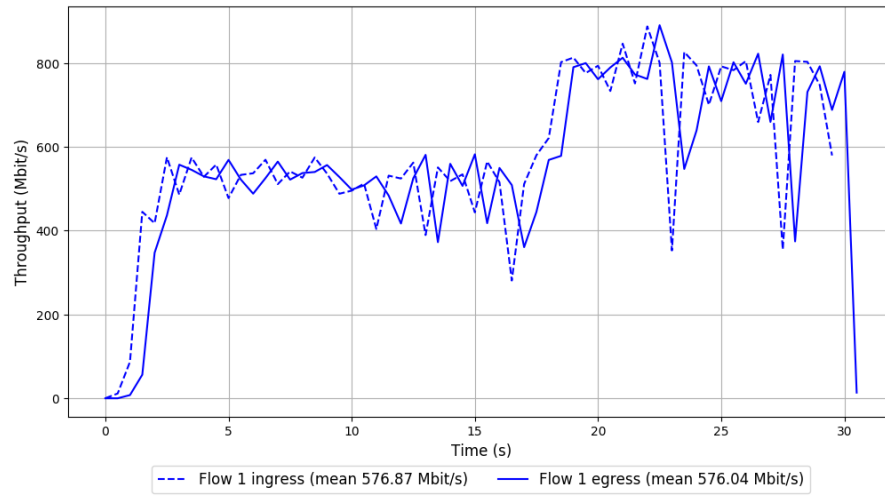
Run 1: Report of FillP — Data Link

```
Run 2: Statistics of FillP

Start at: 2020-04-16 04:39:10
End at: 2020-04-16 04:39:40
Local clock offset: -0.276 ms
Remote clock offset: 22.314 ms


# Below is generated by plot.py at 2020-04-16 07:46:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 647.45 Mbit/s
95th percentile per-packet one-way delay: 164.542 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 647.45 Mbit/s
95th percentile per-packet one-way delay: 164.542 ms
Loss rate: 0.30%
```
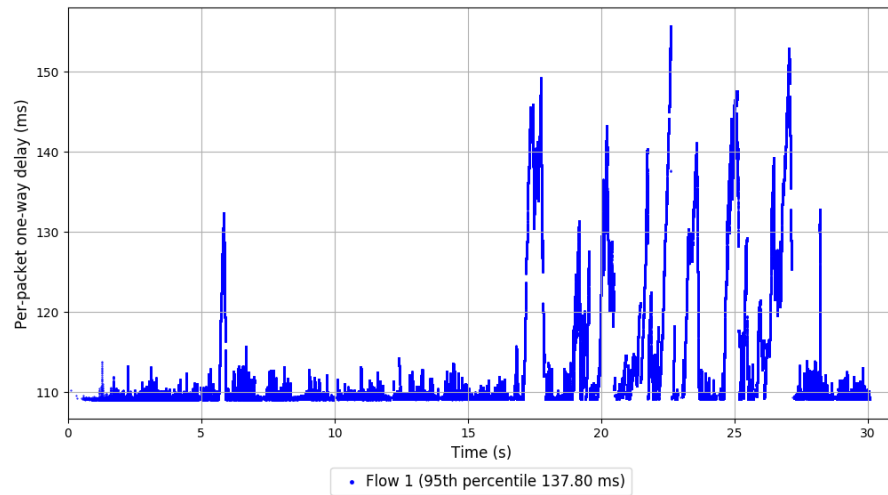
Run 2: Report of FillP — Data Link

Flow 1 ingress (mean 649.34 Mbit/s)   Flow 1 egress (mean 647.45 Mbit/s)

• Flow 1 (95th percentile 164.54 ms)

```
Run 3: Statistics of FillP

Start at: 2020-04-16 05:13:35
End at: 2020-04-16 05:14:05
Local clock offset: -0.279 ms
Remote clock offset: 27.736 ms


# Below is generated by plot.py at 2020-04-16 07:49:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 598.18 Mbit/s
95th percentile per-packet one-way delay: 112.583 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 598.18 Mbit/s
95th percentile per-packet one-way delay: 112.583 ms
Loss rate: 0.00%
```
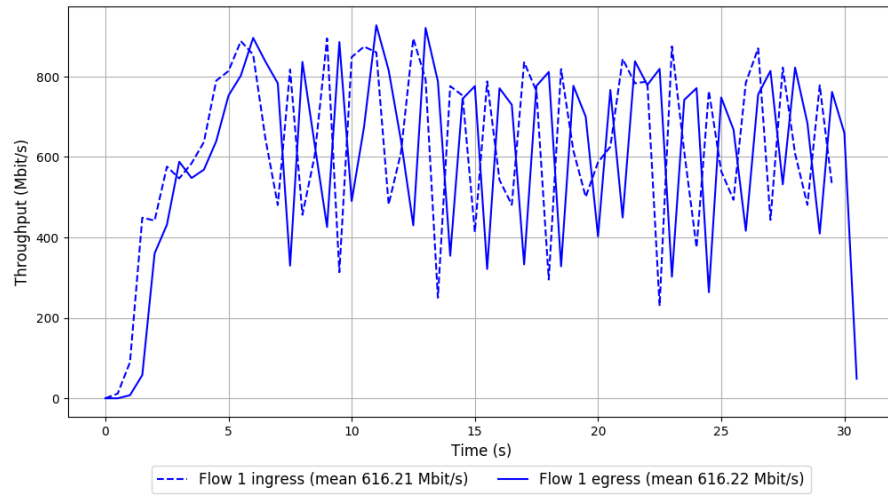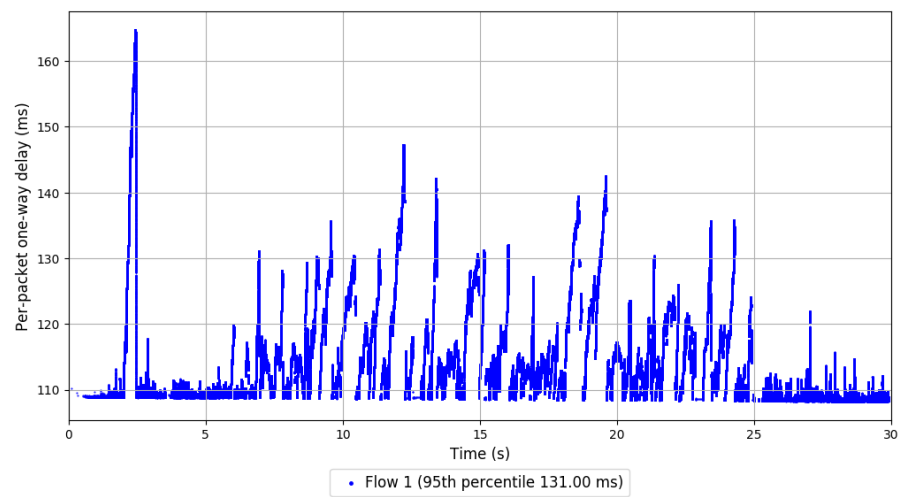
Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 598.19 Mbit/s)   Flow 1 egress (mean 598.18 Mbit/s)

Flow 1 (95th percentile 112.58 ms)

```
Run 4: Statistics of FillP

Start at: 2020-04-16 05:48:47
End at: 2020-04-16 05:49:17
Local clock offset: 1.073 ms
Remote clock offset: 12.828 ms


# Below is generated by plot.py at 2020-04-16 07:49:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 576.04 Mbit/s
95th percentile per-packet one-way delay: 133.130 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 576.04 Mbit/s
95th percentile per-packet one-way delay: 133.130 ms
Loss rate: 0.14%
```
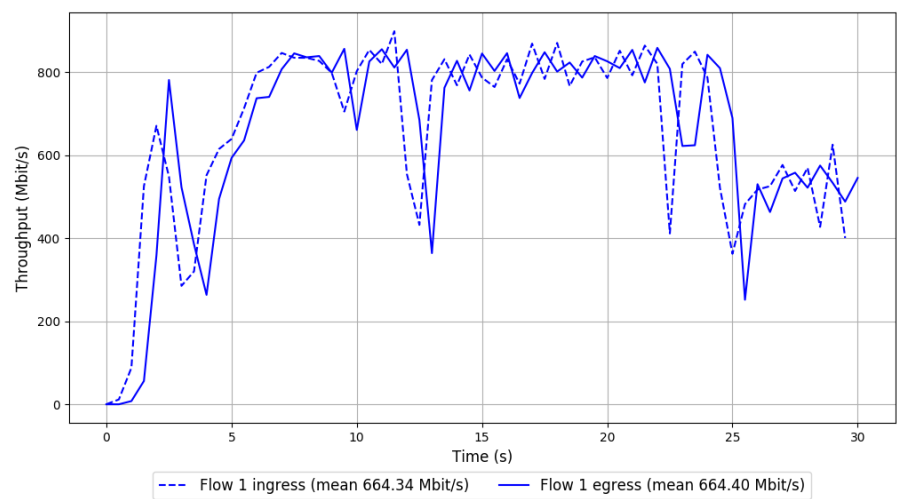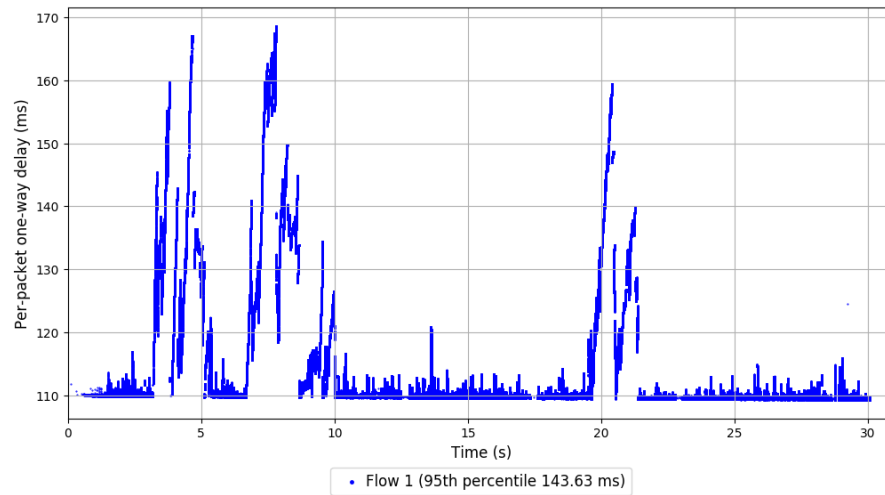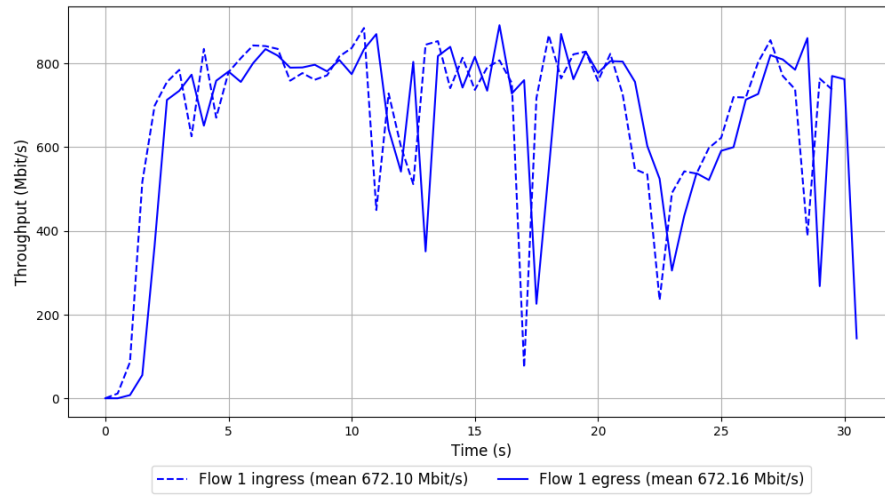
Run 4: Report of FillP — Data Link

```
Run 5: Statistics of FillP

Start at: 2020-04-16 06:23:34
End at: 2020-04-16 06:24:04
Local clock offset: 0.778 ms
Remote clock offset: 6.118 ms


# Below is generated by plot.py at 2020-04-16 07:51:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 616.22 Mbit/s
95th percentile per-packet one-way delay: 137.802 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 616.22 Mbit/s
95th percentile per-packet one-way delay: 137.802 ms
Loss rate: 0.01%
```
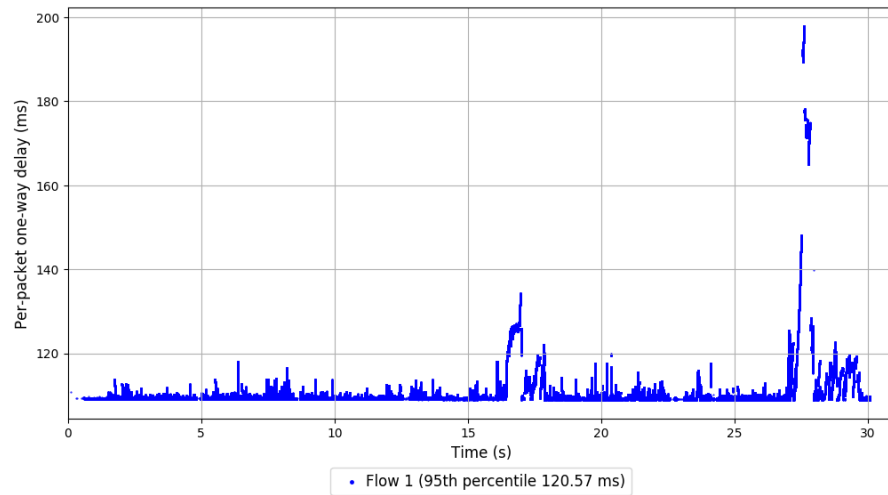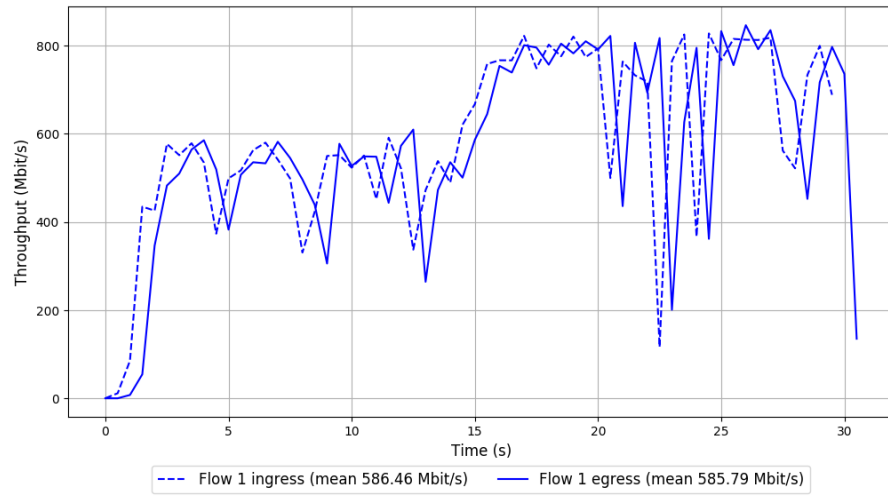
Run 5: Report of FillP — Data Link

```
Run 1: Statistics of FillP-Sheep

Start at: 2020-04-16 04:30:25
End at: 2020-04-16 04:30:55
Local clock offset: -0.937 ms
Remote clock offset: 20.1 ms


# Below is generated by plot.py at 2020-04-16 07:52:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 664.40 Mbit/s
95th percentile per-packet one-way delay: 131.004 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 664.40 Mbit/s
95th percentile per-packet one-way delay: 131.004 ms
Loss rate: 0.01%
```

Run 1: Report of FillP-Sheep — Data Link

```
Run 2: Statistics of FillP-Sheep

Start at: 2020-04-16 05:05:07
End at: 2020-04-16 05:05:37
Local clock offset: -1.576 ms
Remote clock offset: 36.549 ms


# Below is generated by plot.py at 2020-04-16 07:54:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 672.16 Mbit/s
95th percentile per-packet one-way delay: 143.632 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 672.16 Mbit/s
95th percentile per-packet one-way delay: 143.632 ms
Loss rate: 0.00%
```
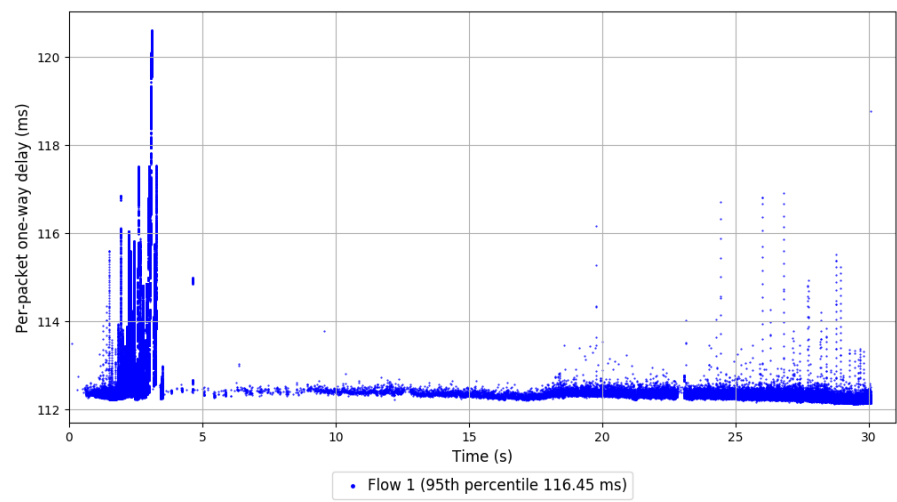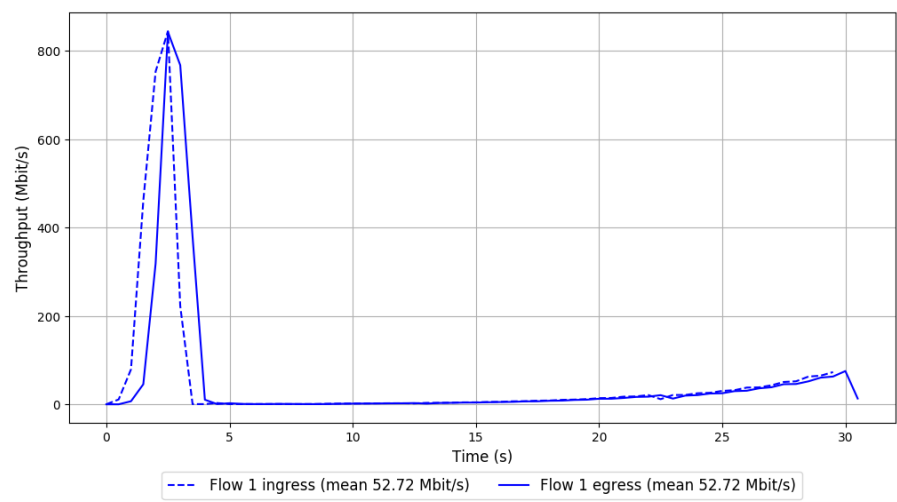
Run 2: Report of FillP-Sheep — Data Link

```
Run 3: Statistics of FillP-Sheep

Start at: 2020-04-16 05:39:34
End at: 2020-04-16 05:40:04
Local clock offset: -0.295 ms
Remote clock offset: 19.065 ms


# Below is generated by plot.py at 2020-04-16 07:54:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 585.79 Mbit/s
95th percentile per-packet one-way delay: 120.566 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 585.79 Mbit/s
95th percentile per-packet one-way delay: 120.566 ms
Loss rate: 0.12%
```
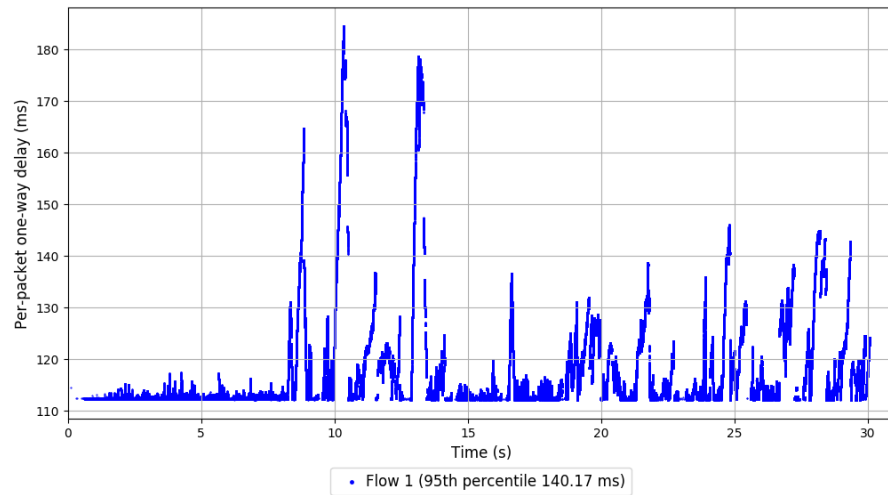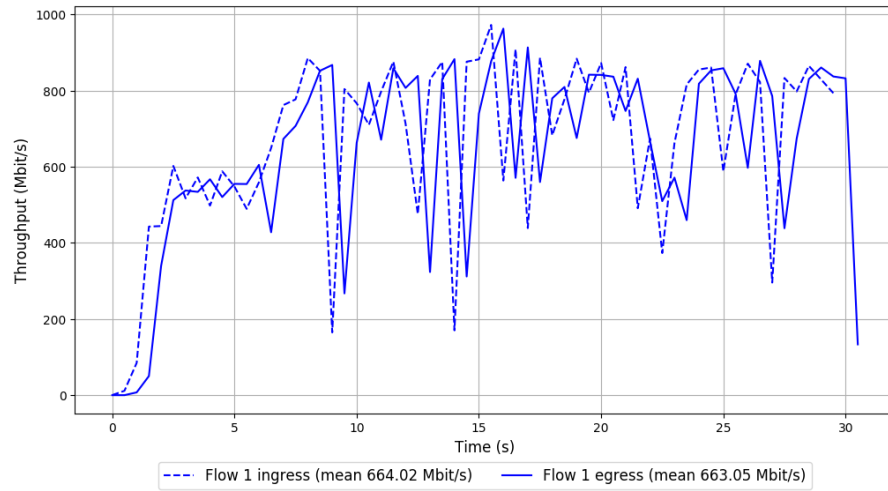
Run 3: Report of FillP-Sheep — Data Link

```
Run 4: Statistics of FillP-Sheep

Start at: 2020-04-16 06:14:50
End at: 2020-04-16 06:15:20
Local clock offset: -0.073 ms
Remote clock offset: 9.357 ms


# Below is generated by plot.py at 2020-04-16 07:54:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.72 Mbit/s
95th percentile per-packet one-way delay: 116.450 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 52.72 Mbit/s
95th percentile per-packet one-way delay: 116.450 ms
Loss rate: 0.02%
```
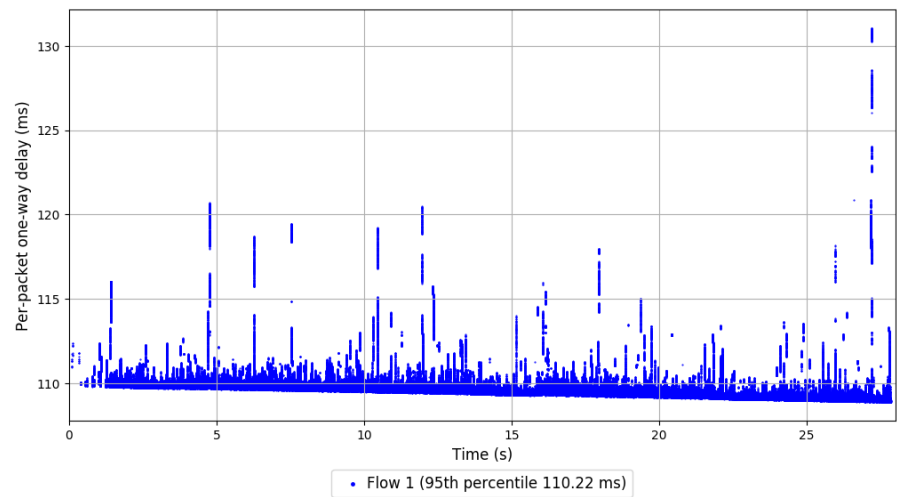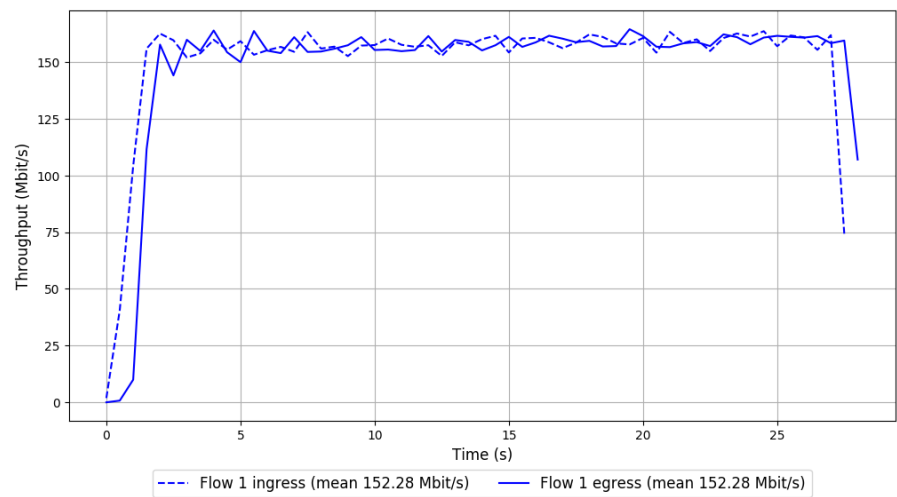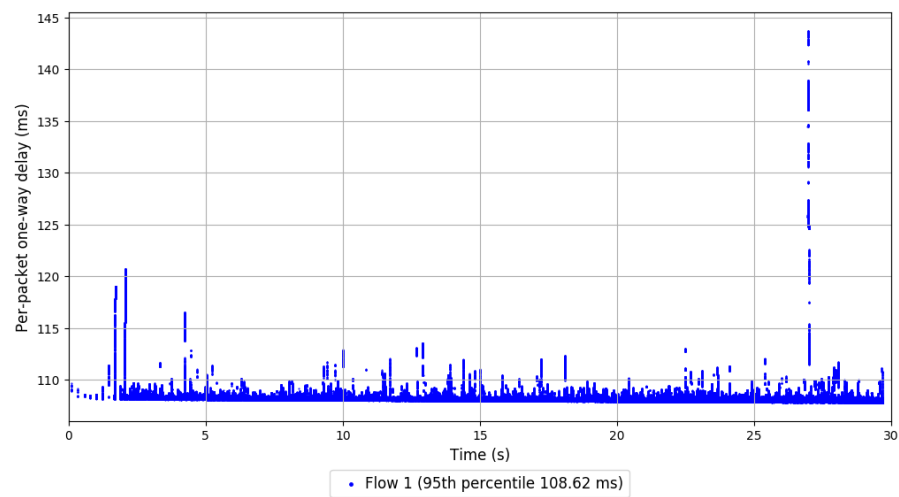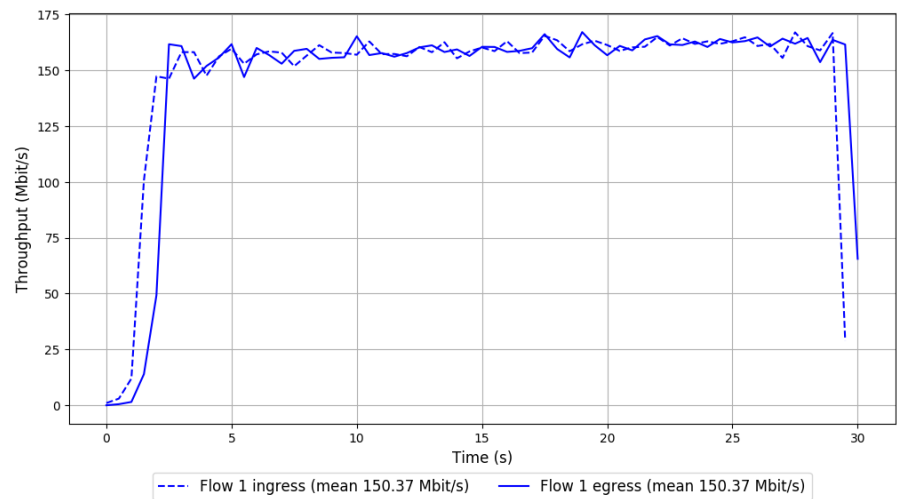
Run 4: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 52.72 Mbit/s)   Flow 1 egress (mean 52.72 Mbit/s)

Flow 1 (95th percentile 116.45 ms)

```
Run 5: Statistics of FillP-Sheep

Start at: 2020-04-16 06:49:06
End at: 2020-04-16 06:49:36
Local clock offset: 0.007 ms
Remote clock offset: 9.587 ms


# Below is generated by plot.py at 2020-04-16 07:59:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 663.05 Mbit/s
95th percentile per-packet one-way delay: 140.174 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 663.05 Mbit/s
95th percentile per-packet one-way delay: 140.174 ms
Loss rate: 0.17%
```

Run 5: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 664.02 Mbit/s) ---- Flow 1 egress (mean 663.05 Mbit/s)
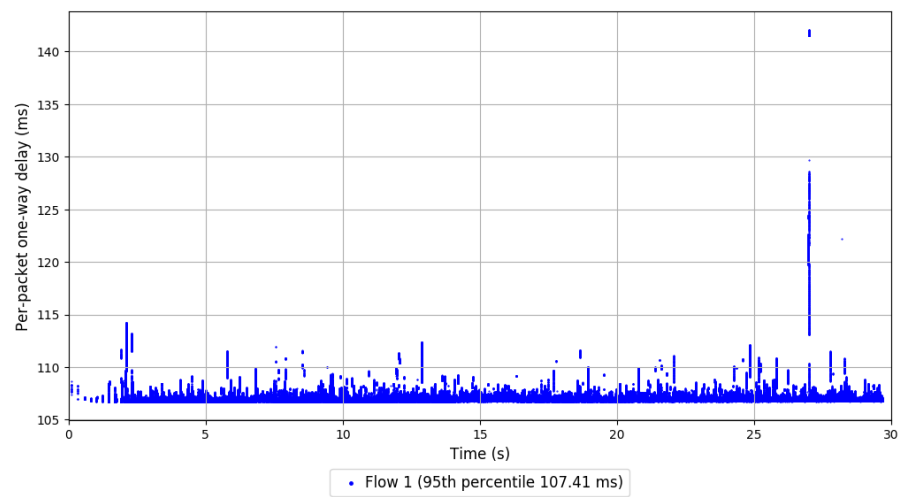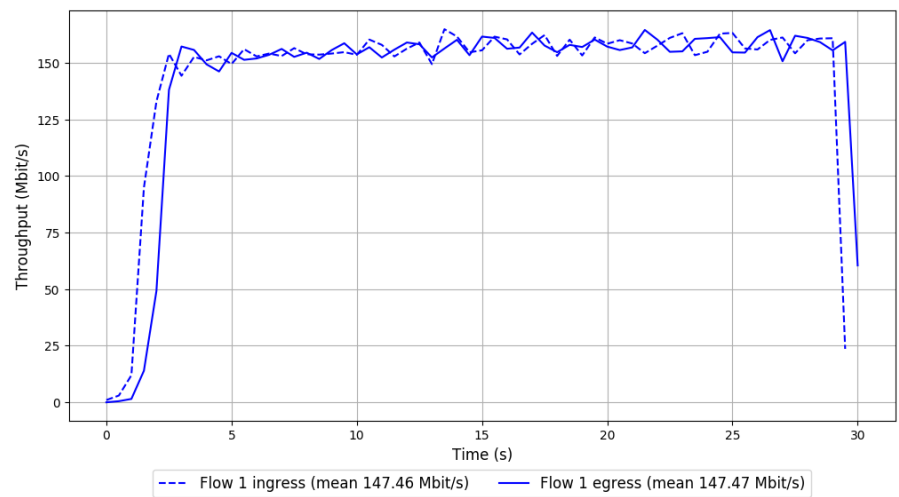

• Flow 1 (95th percentile 140.17 ms)

```
Run 1: Statistics of Indigo

Start at: 2020-04-16 04:16:42
End at: 2020-04-16 04:17:12
Local clock offset: -0.069 ms
Remote clock offset: 15.67 ms


# Below is generated by plot.py at 2020-04-16 07:59:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.28 Mbit/s
95th percentile per-packet one-way delay: 110.221 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 152.28 Mbit/s
95th percentile per-packet one-way delay: 110.221 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2020-04-16 04:51:22
End at: 2020-04-16 04:51:52
Local clock offset: -1.493 ms
Remote clock offset: 23.885 ms

# Below is generated by plot.py at 2020-04-16 07:59:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 150.37 Mbit/s
95th percentile per-packet one-way delay: 108.619 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 150.37 Mbit/s
95th percentile per-packet one-way delay: 108.619 ms
Loss rate: 0.00%
```
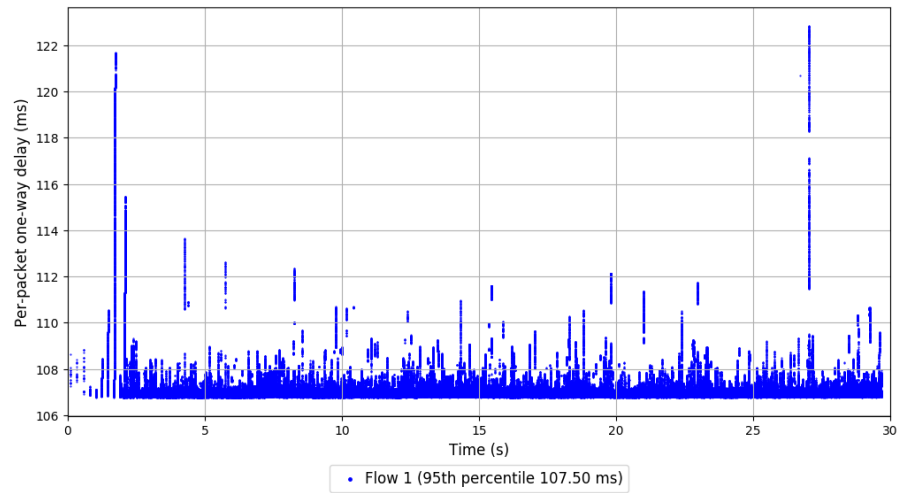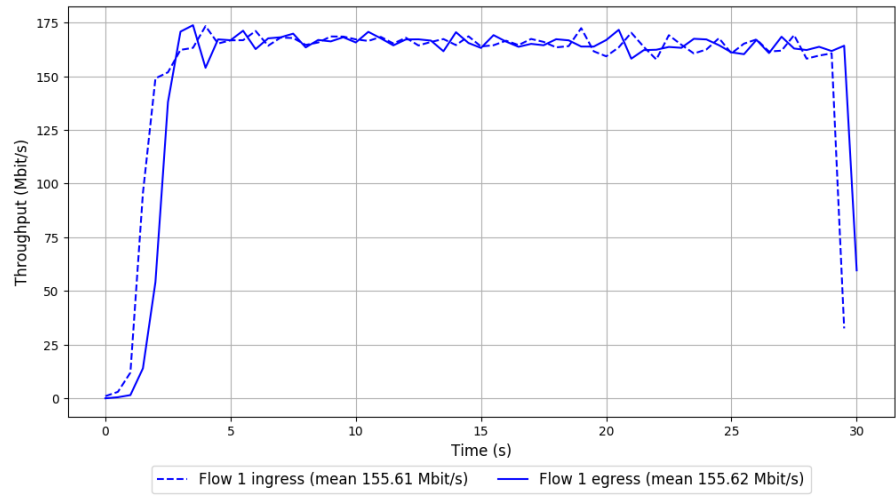
Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2020-04-16 05:25:46
End at: 2020-04-16 05:26:16
Local clock offset: -0.264 ms
Remote clock offset: 15.829 ms


# Below is generated by plot.py at 2020-04-16 07:59:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.47 Mbit/s
95th percentile per-packet one-way delay: 107.406 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.47 Mbit/s
95th percentile per-packet one-way delay: 107.406 ms
Loss rate: 0.00%
```
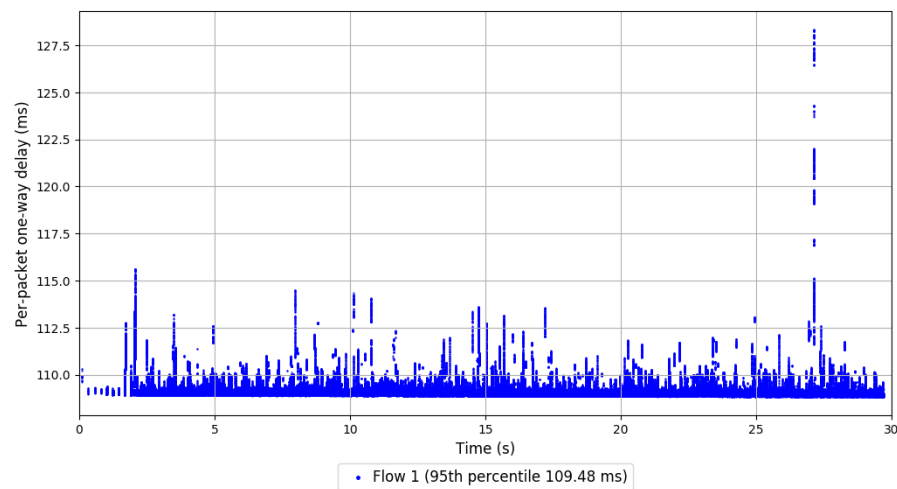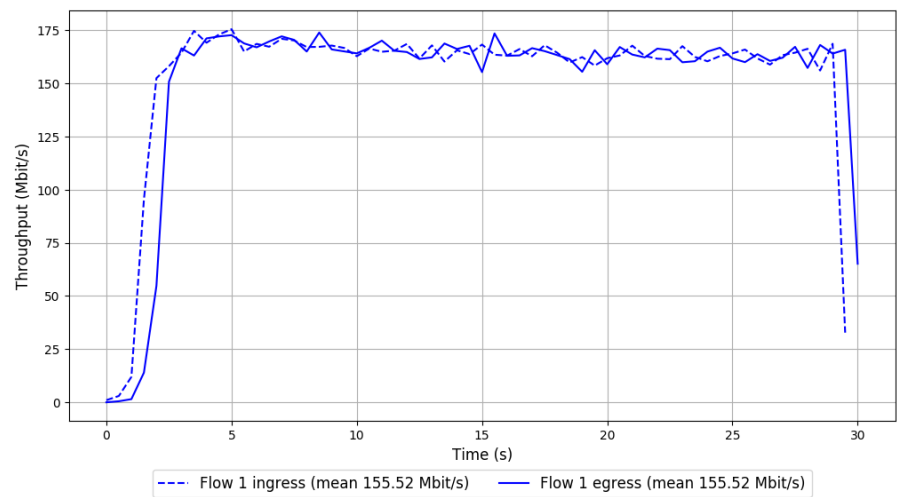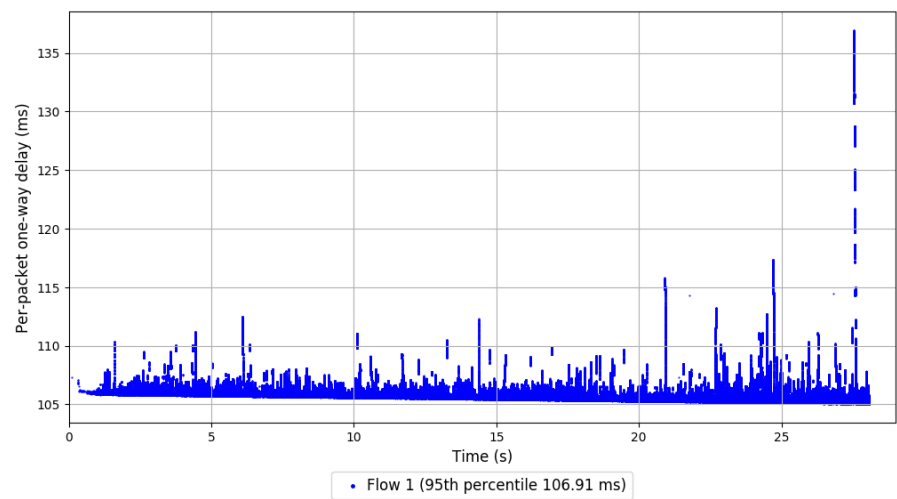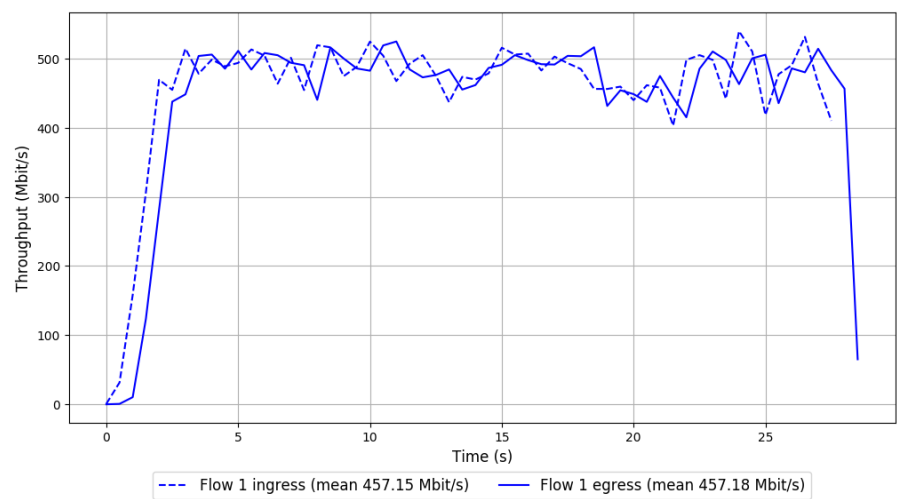
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2020-04-16 06:00:56
End at: 2020-04-16 06:01:26
Local clock offset: 0.016 ms
Remote clock offset: 7.635 ms


# Below is generated by plot.py at 2020-04-16 07:59:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.62 Mbit/s
95th percentile per-packet one-way delay: 107.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 155.62 Mbit/s
95th percentile per-packet one-way delay: 107.503 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

```
Run 5: Statistics of Indigo

Start at: 2020-04-16 06:35:39
End at: 2020-04-16 06:36:09
Local clock offset: -0.052 ms
Remote clock offset: 6.187 ms


# Below is generated by plot.py at 2020-04-16 08:00:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.52 Mbit/s
95th percentile per-packet one-way delay: 109.478 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 155.52 Mbit/s
95th percentile per-packet one-way delay: 109.478 ms
Loss rate: 0.01%
```
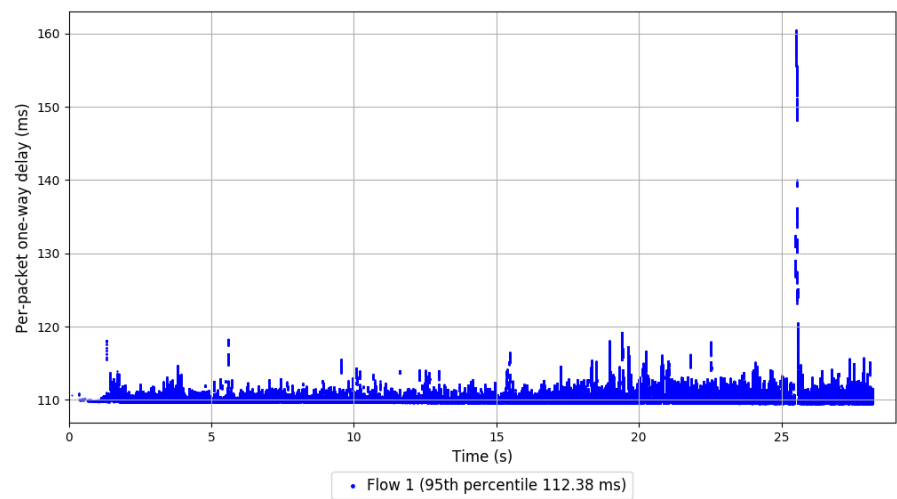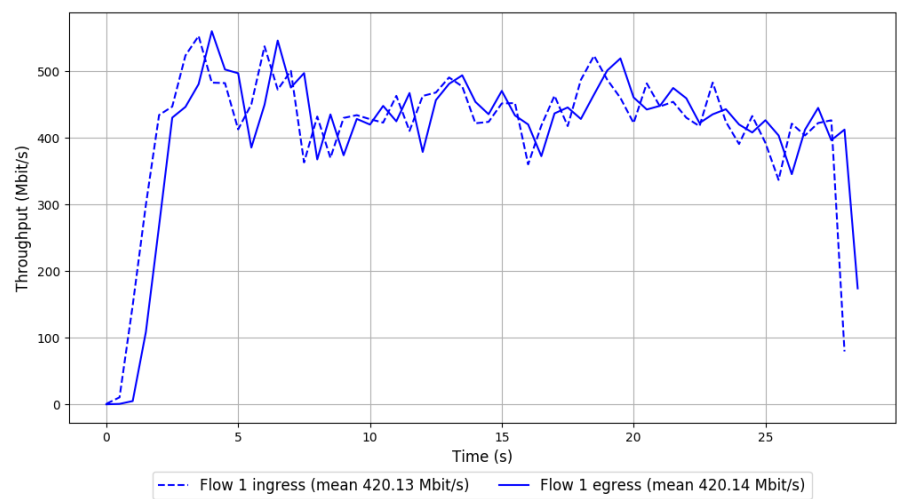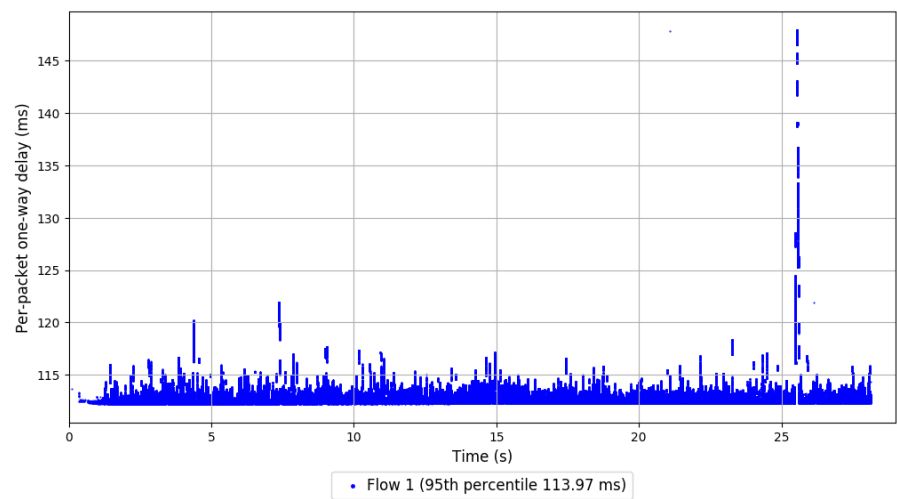
Run 5: Report of Indigo — Data Link

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2020-04-16 04:15:09
End at: 2020-04-16 04:15:39
Local clock offset: 0.614 ms
Remote clock offset: 12.901 ms


# Below is generated by plot.py at 2020-04-16 08:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 457.18 Mbit/s
95th percentile per-packet one-way delay: 106.907 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 457.18 Mbit/s
95th percentile per-packet one-way delay: 106.907 ms
Loss rate: 0.00%
```
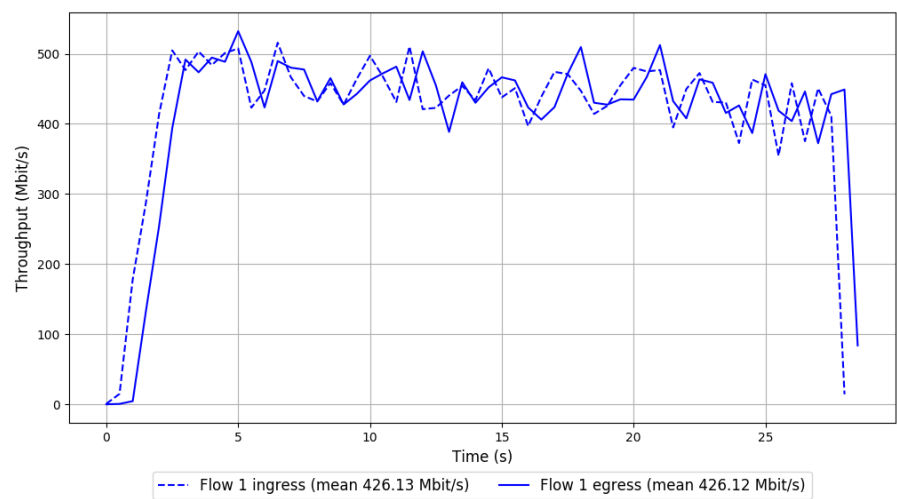
Run 1: Report of Indigo-MusesC3 — Data Link

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2020-04-16 04:49:51
End at: 2020-04-16 04:50:21
Local clock offset: -0.215 ms
Remote clock offset: 22.49 ms


# Below is generated by plot.py at 2020-04-16 08:05:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 420.14 Mbit/s
95th percentile per-packet one-way delay: 112.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 420.14 Mbit/s
95th percentile per-packet one-way delay: 112.380 ms
Loss rate: 0.00%
```
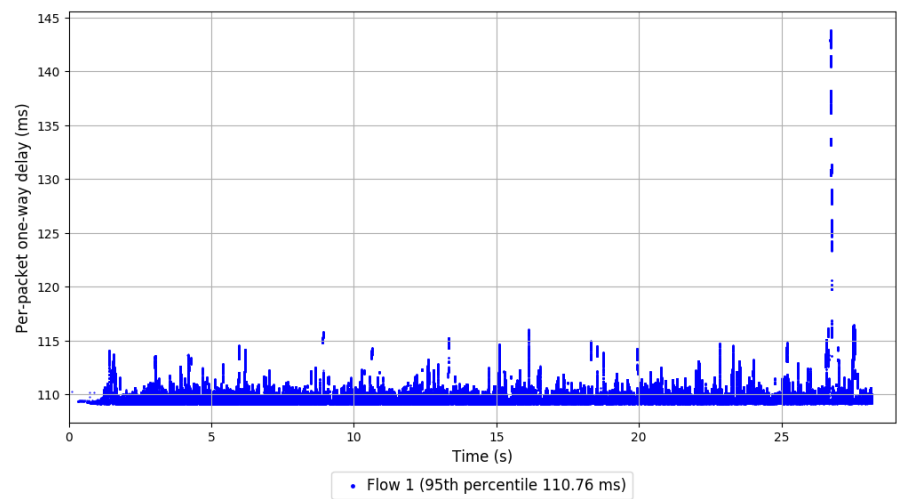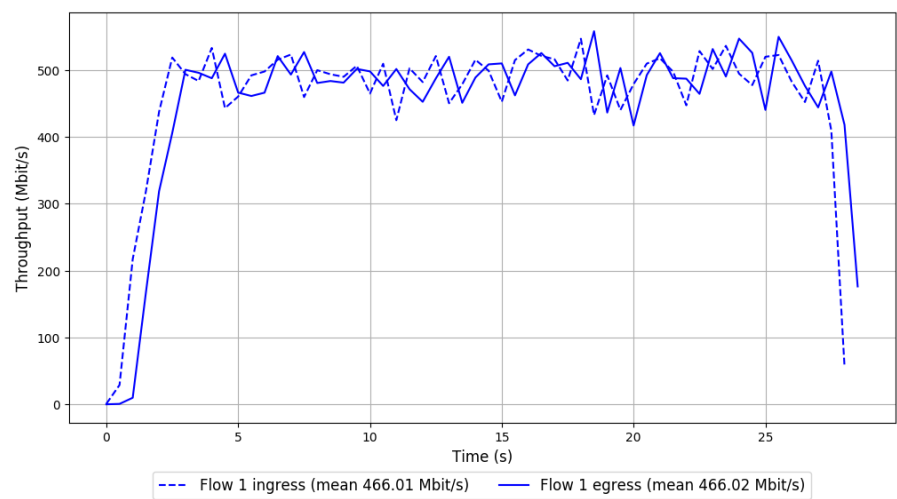
Run 2: Report of Indigo-MusesC3 — Data Link

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2020-04-16 05:24:13
End at: 2020-04-16 05:24:43
Local clock offset: -0.227 ms
Remote clock offset: 16.142 ms


# Below is generated by plot.py at 2020-04-16 08:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 426.12 Mbit/s
95th percentile per-packet one-way delay: 113.966 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 426.12 Mbit/s
95th percentile per-packet one-way delay: 113.966 ms
Loss rate: 0.00%
```
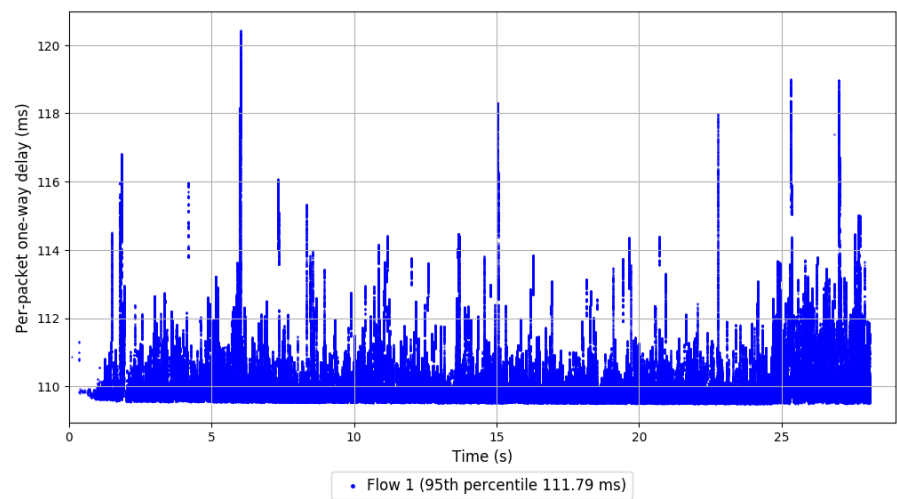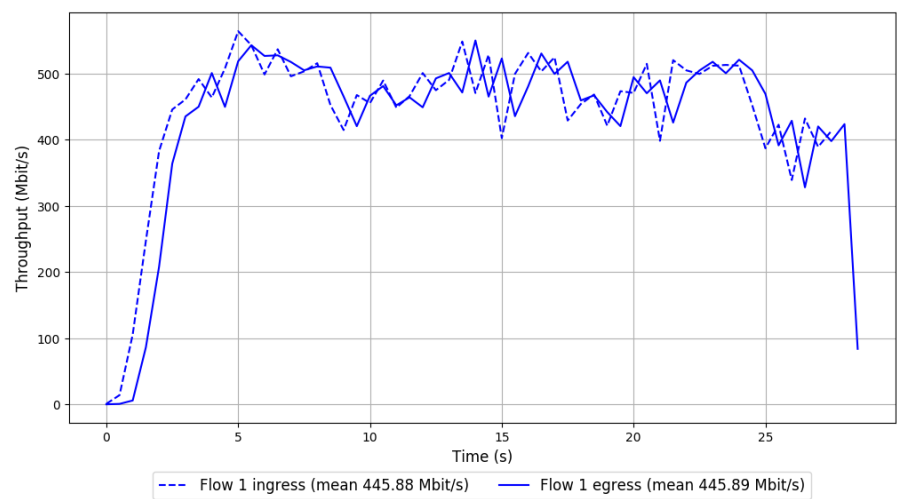
Run 3: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 426.13 Mbit/s)   Flow 1 egress (mean 426.12 Mbit/s)

Flow 1 (95th percentile 113.97 ms)

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2020-04-16 05:59:22
End at: 2020-04-16 05:59:52
Local clock offset: -0.174 ms
Remote clock offset: 7.728 ms


# Below is generated by plot.py at 2020-04-16 08:10:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 466.02 Mbit/s
95th percentile per-packet one-way delay: 110.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 466.02 Mbit/s
95th percentile per-packet one-way delay: 110.764 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 466.01 Mbit/s)   Flow 1 egress (mean 466.02 Mbit/s)

Flow 1 (95th percentile 110.76 ms)

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2020-04-16 06:34:06
End at: 2020-04-16 06:34:36
Local clock offset: -0.665 ms
Remote clock offset: 5.966 ms


# Below is generated by plot.py at 2020-04-16 08:10:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 445.89 Mbit/s
95th percentile per-packet one-way delay: 111.791 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 445.89 Mbit/s
95th percentile per-packet one-way delay: 111.791 ms
Loss rate: 0.01%
```
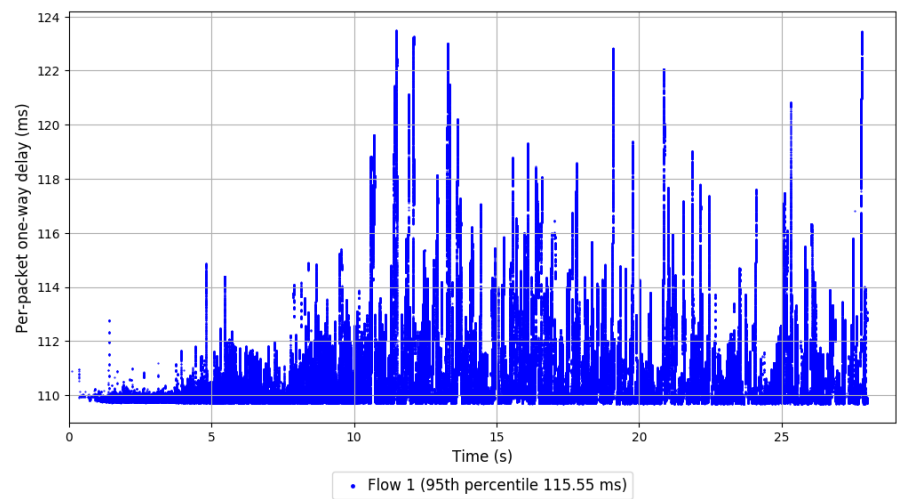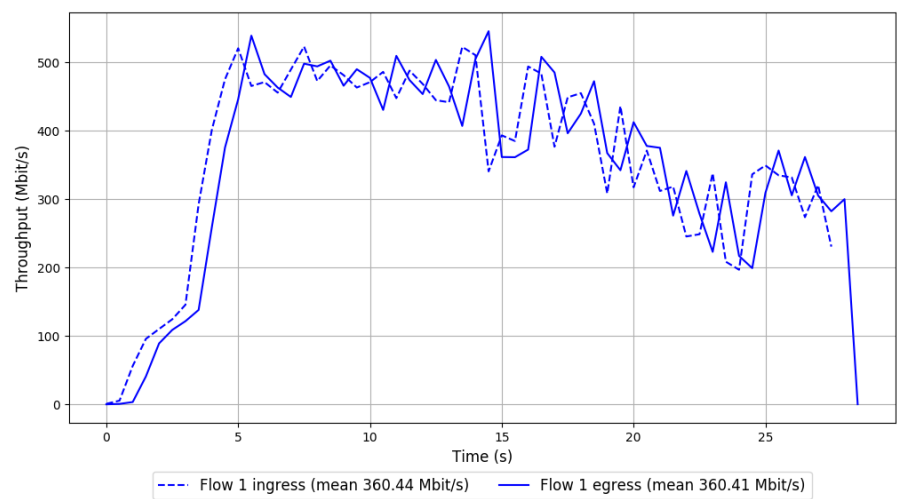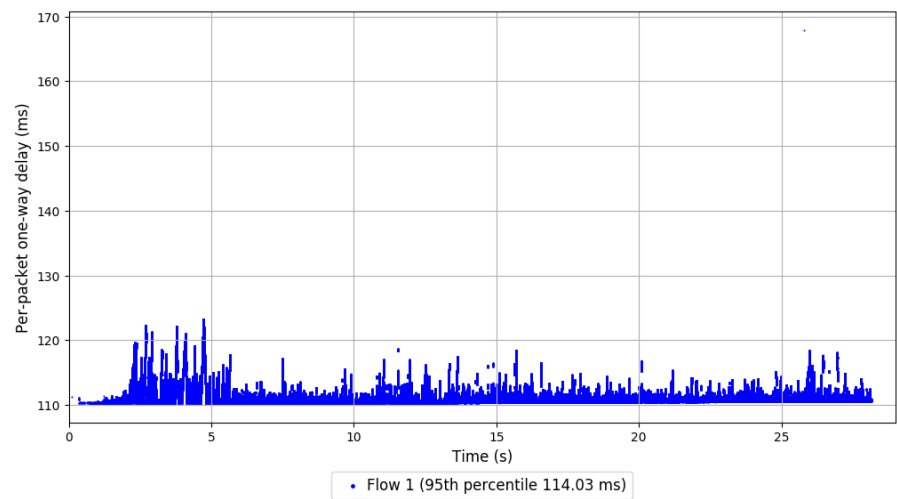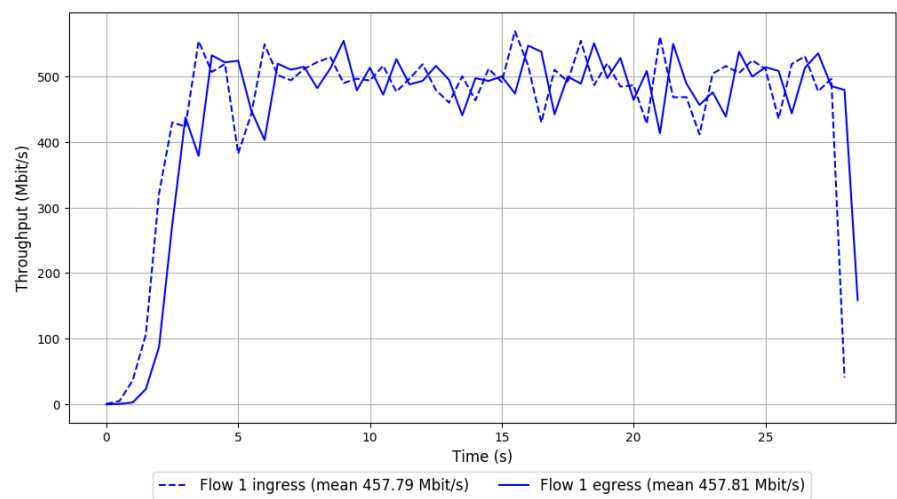
Run 5: Report of Indigo-MusesC3 — Data Link

Run 1: Statistics of Indigo-MusesC5

Start at: 2020-04-16 04:09:30
End at: 2020-04-16 04:10:00
Local clock offset: -0.079 ms
Remote clock offset: 11.365 ms

Run 1: Report of Indigo-MusesC5 — Data Link

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2020-04-16 04:43:55
End at: 2020-04-16 04:44:25
Local clock offset: -0.113 ms
Remote clock offset: 20.44 ms


# Below is generated by plot.py at 2020-04-16 08:10:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 360.41 Mbit/s
95th percentile per-packet one-way delay: 115.554 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 360.41 Mbit/s
95th percentile per-packet one-way delay: 115.554 ms
Loss rate: 0.00%
```
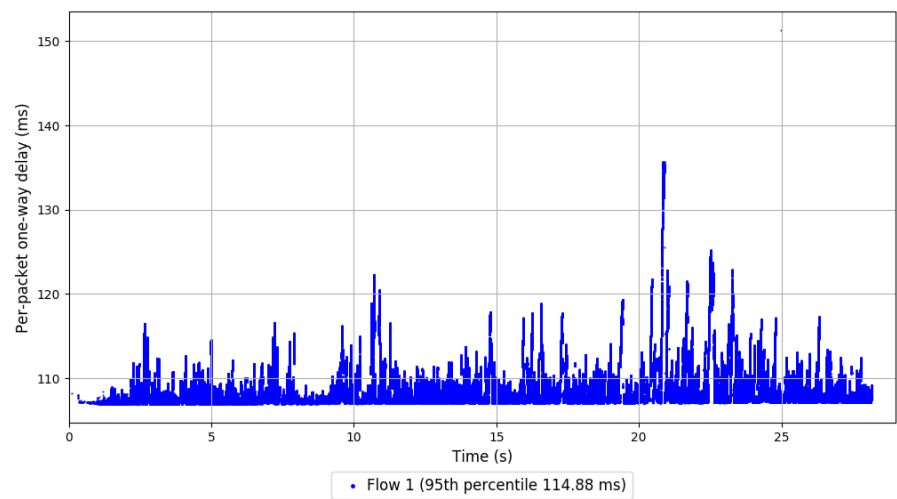
Run 2: Report of Indigo-MusesC5 — Data Link

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2020-04-16 05:18:13
End at: 2020-04-16 05:18:43
Local clock offset: -0.194 ms
Remote clock offset: 20.201 ms


# Below is generated by plot.py at 2020-04-16 08:12:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 457.81 Mbit/s
95th percentile per-packet one-way delay: 114.031 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 457.81 Mbit/s
95th percentile per-packet one-way delay: 114.031 ms
Loss rate: 0.00%
```
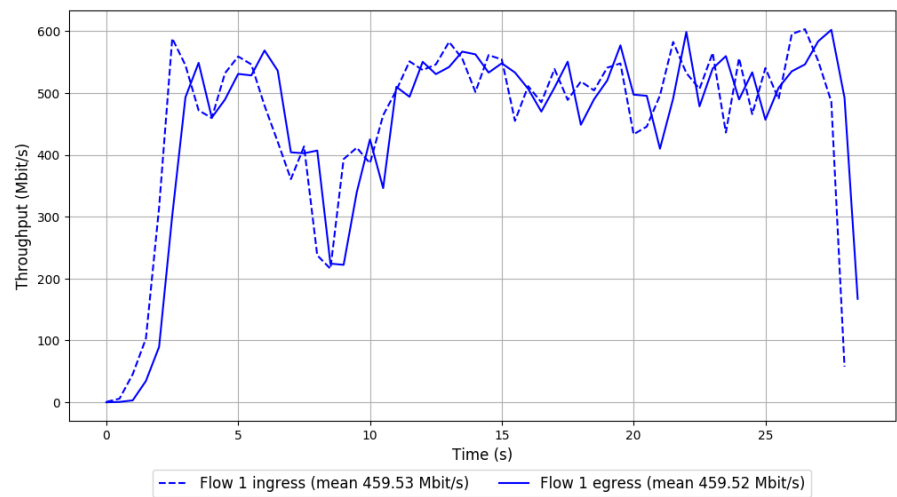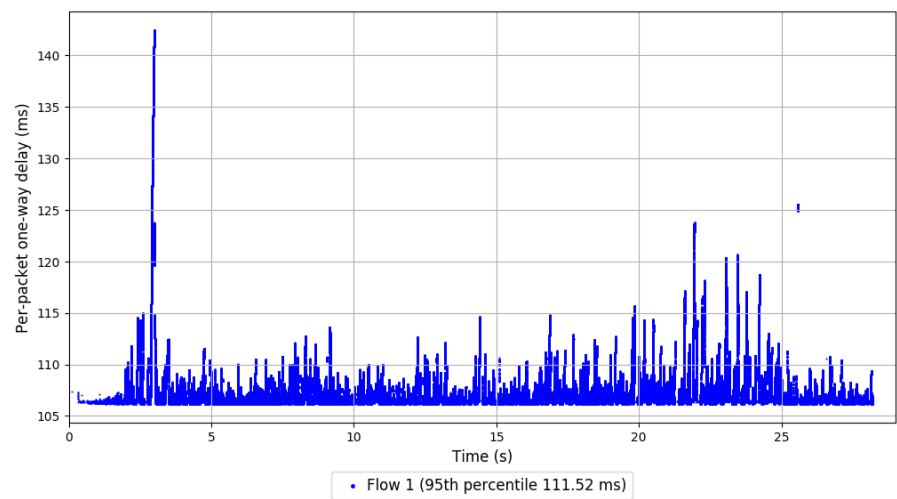
Run 3: Report of Indigo-MusesC5 — Data Link

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2020-04-16 05:53:22
End at: 2020-04-16 05:53:52
Local clock offset: -0.16 ms
Remote clock offset: 9.487 ms


# Below is generated by plot.py at 2020-04-16 08:17:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 459.52 Mbit/s
95th percentile per-packet one-way delay: 114.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 459.52 Mbit/s
95th percentile per-packet one-way delay: 114.884 ms
Loss rate: 0.00%
```
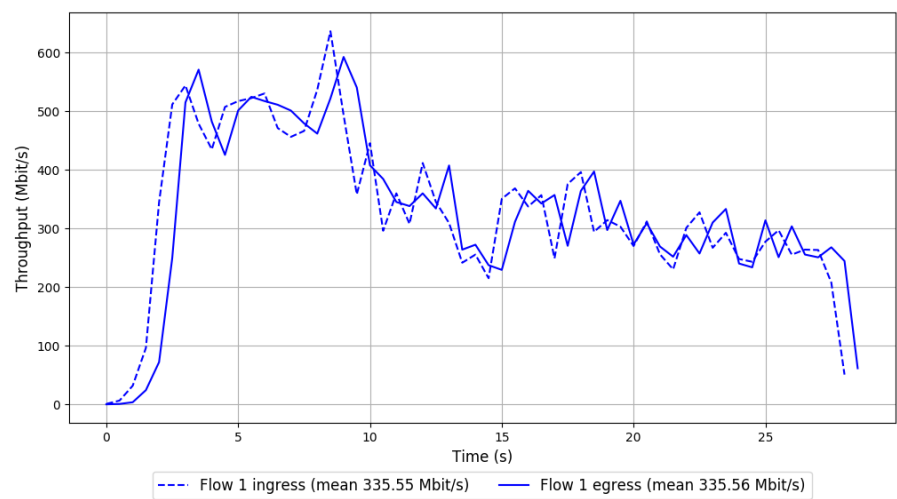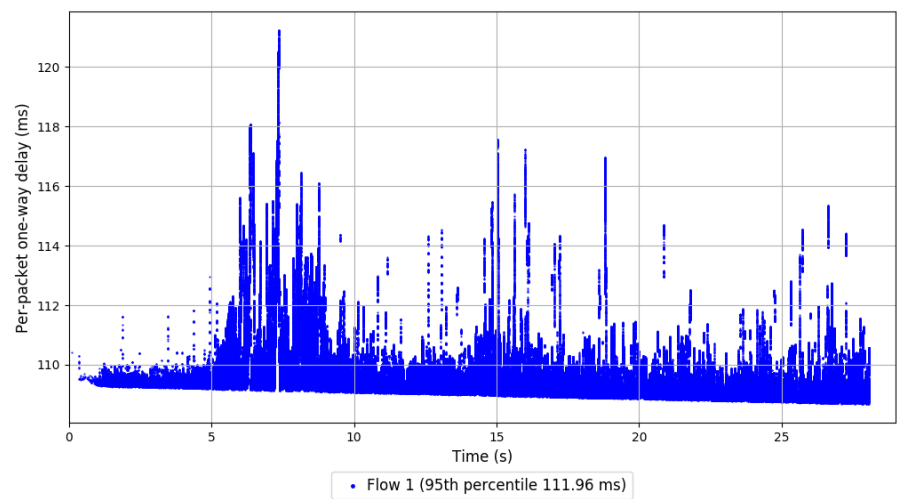
Run 4: Report of Indigo-MusesC5 — Data Link

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2020-04-16 06:28:16
End at: 2020-04-16 06:28:46
Local clock offset: -0.021 ms
Remote clock offset: 5.498 ms


# Below is generated by plot.py at 2020-04-16 08:17:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.56 Mbit/s
95th percentile per-packet one-way delay: 111.515 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 335.56 Mbit/s
95th percentile per-packet one-way delay: 111.515 ms
Loss rate: 0.00%
```
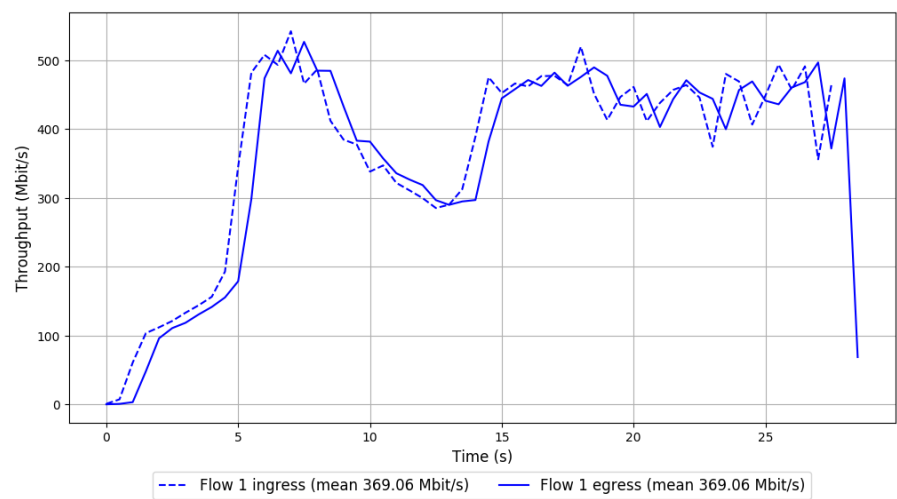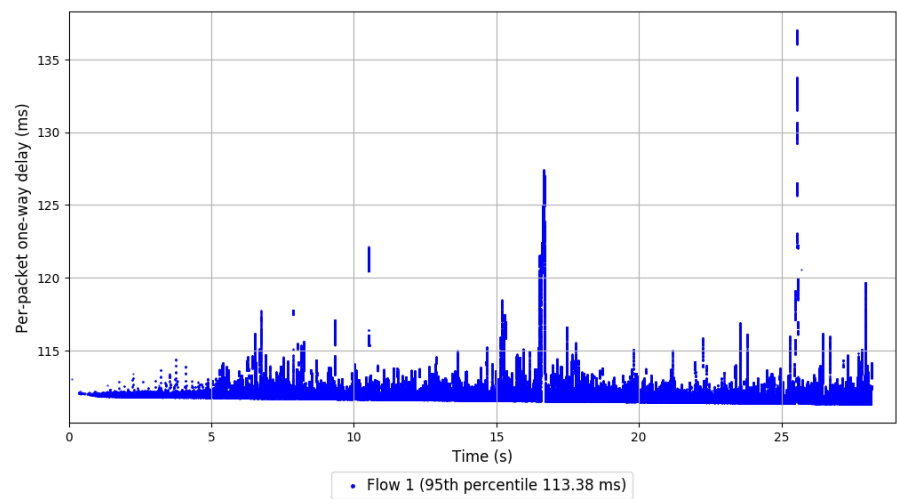
Run 5: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 335.55 Mbit/s)   Flow 1 egress (mean 335.56 Mbit/s)

Flow 1 (95th percentile 111.52 ms)

```
Run 1: Statistics of Indigo-MusesD

Start at: 2020-04-16 04:28:56
End at: 2020-04-16 04:29:26
Local clock offset: -0.272 ms
Remote clock offset: 18.039 ms

# Below is generated by plot.py at 2020-04-16 08:17:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.06 Mbit/s
95th percentile per-packet one-way delay: 111.957 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 369.06 Mbit/s
95th percentile per-packet one-way delay: 111.957 ms
Loss rate: 0.02%
```
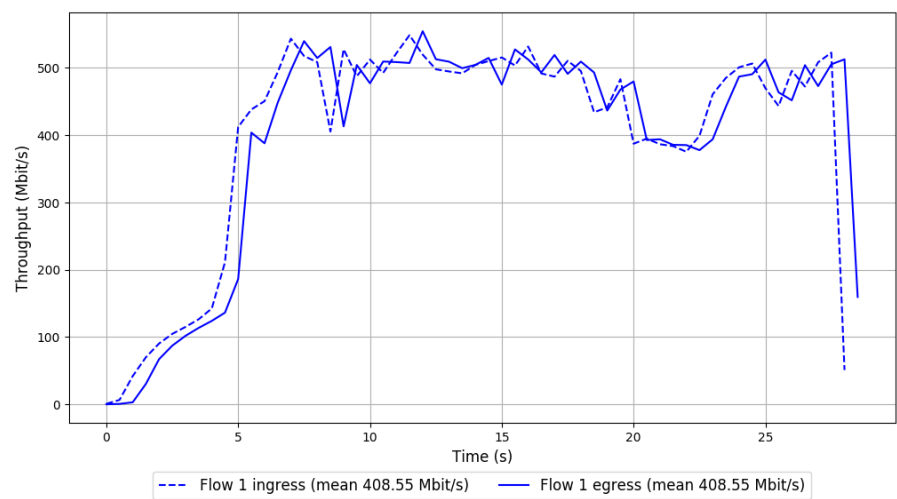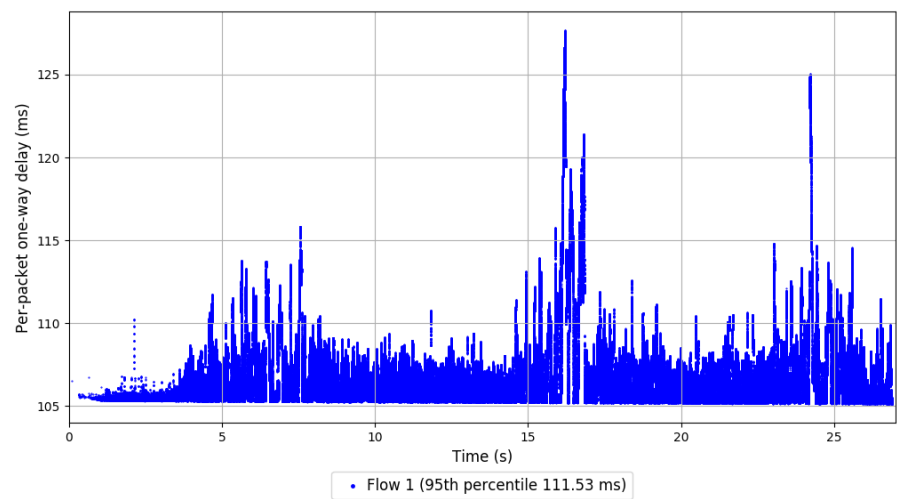
Run 1: Report of Indigo-MusesD — Data Link

```
Run 2: Statistics of Indigo-MusesD

Start at: 2020-04-16 05:03:36
End at: 2020-04-16 05:04:06
Local clock offset: -0.275 ms
Remote clock offset: 34.972 ms


# Below is generated by plot.py at 2020-04-16 08:18:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 408.55 Mbit/s
95th percentile per-packet one-way delay: 113.382 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 408.55 Mbit/s
95th percentile per-packet one-way delay: 113.382 ms
Loss rate: 0.00%
```
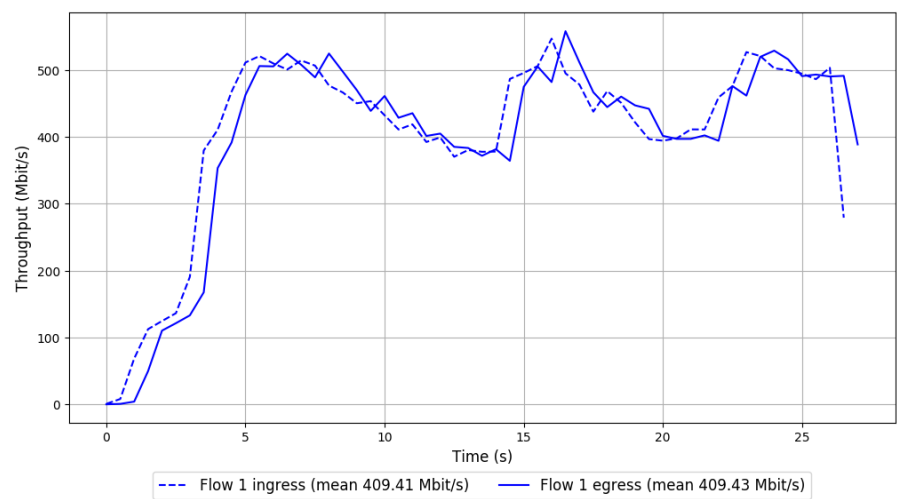
Run 2: Report of Indigo-MusesD — Data Link

```
Run 3: Statistics of Indigo-MusesD

Start at: 2020-04-16 05:38:04
End at: 2020-04-16 05:38:34
Local clock offset: 1.038 ms
Remote clock offset: 18.441 ms


# Below is generated by plot.py at 2020-04-16 08:20:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 409.43 Mbit/s
95th percentile per-packet one-way delay: 111.527 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 409.43 Mbit/s
95th percentile per-packet one-way delay: 111.527 ms
Loss rate: 0.00%
```
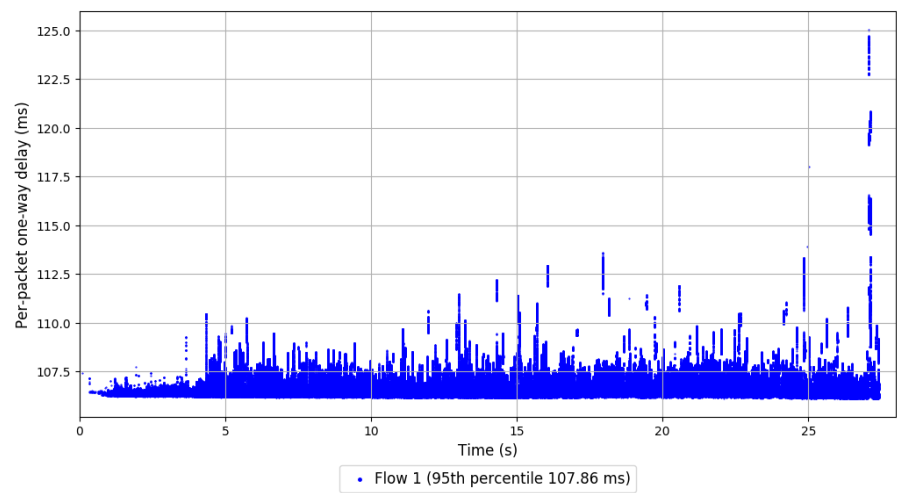
Run 3: Report of Indigo-MusesD — Data Link

```
Run 4: Statistics of Indigo-MusesD

Start at: 2020-04-16 06:13:19
End at: 2020-04-16 06:13:49
Local clock offset: 0.091 ms
Remote clock offset: 8.636 ms


# Below is generated by plot.py at 2020-04-16 08:20:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 402.83 Mbit/s
95th percentile per-packet one-way delay: 107.863 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 402.83 Mbit/s
95th percentile per-packet one-way delay: 107.863 ms
Loss rate: 0.00%
```
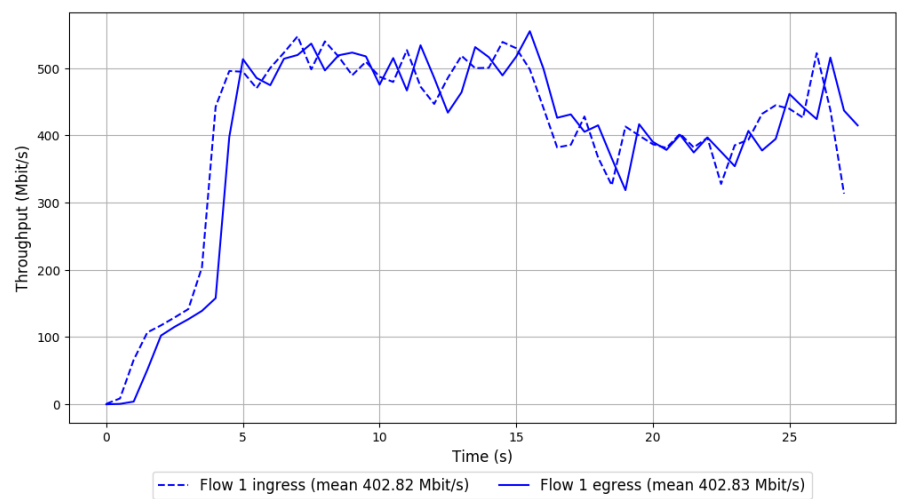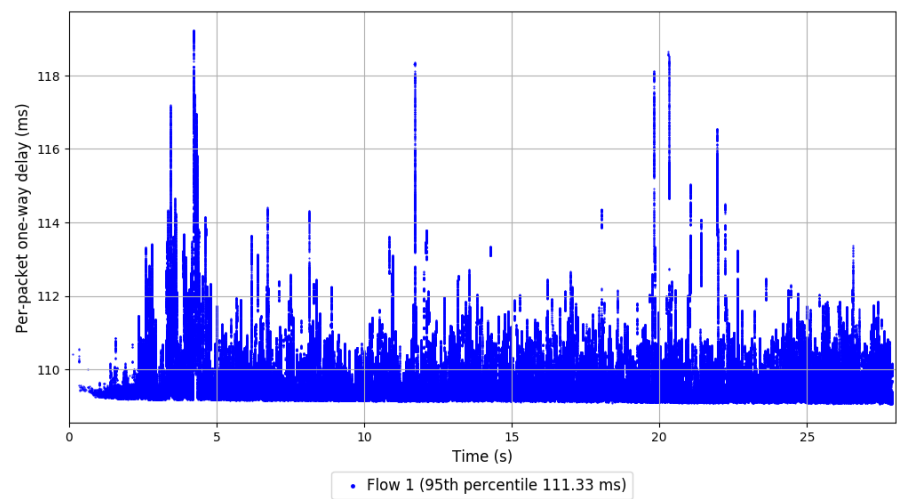
Run 4: Report of Indigo-MusesD — Data Link

```
Run 5: Statistics of Indigo-MusesD

Start at: 2020-04-16 06:47:33
End at: 2020-04-16 06:48:03
Local clock offset: -0.681 ms
Remote clock offset: 8.829 ms


# Below is generated by plot.py at 2020-04-16 08:22:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 447.39 Mbit/s
95th percentile per-packet one-way delay: 111.329 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 447.39 Mbit/s
95th percentile per-packet one-way delay: 111.329 ms
Loss rate: 0.01%
```
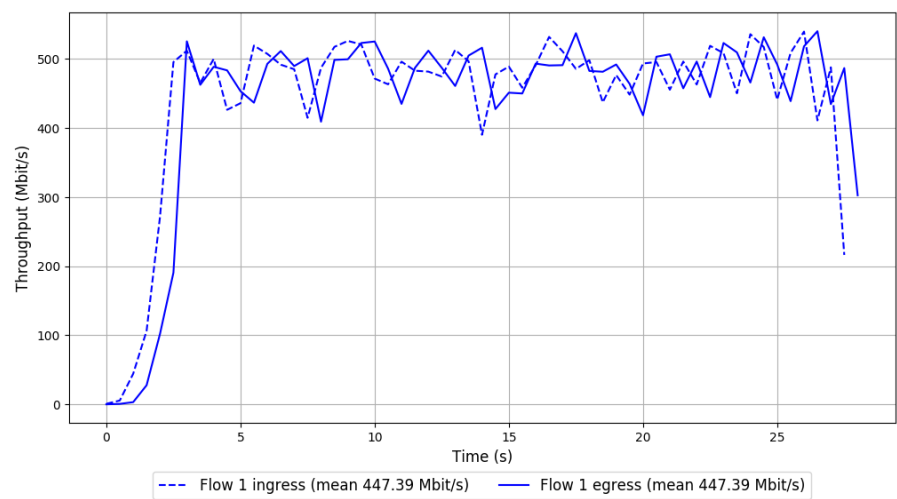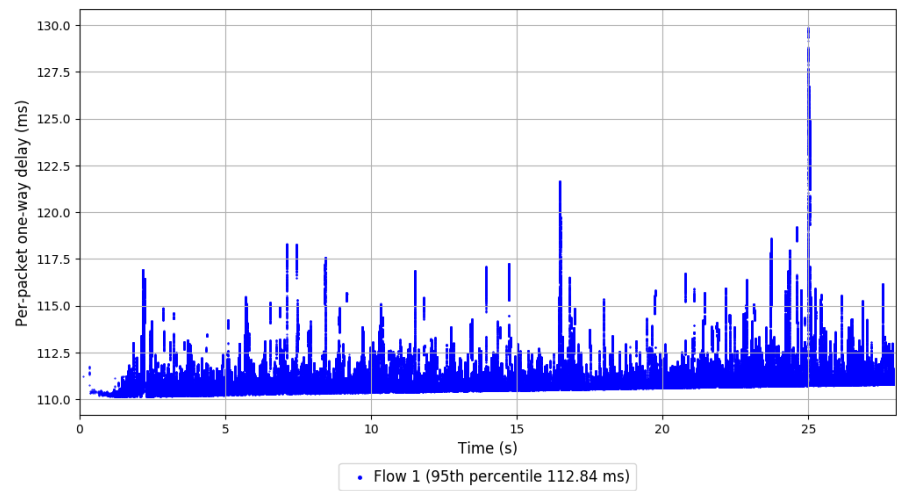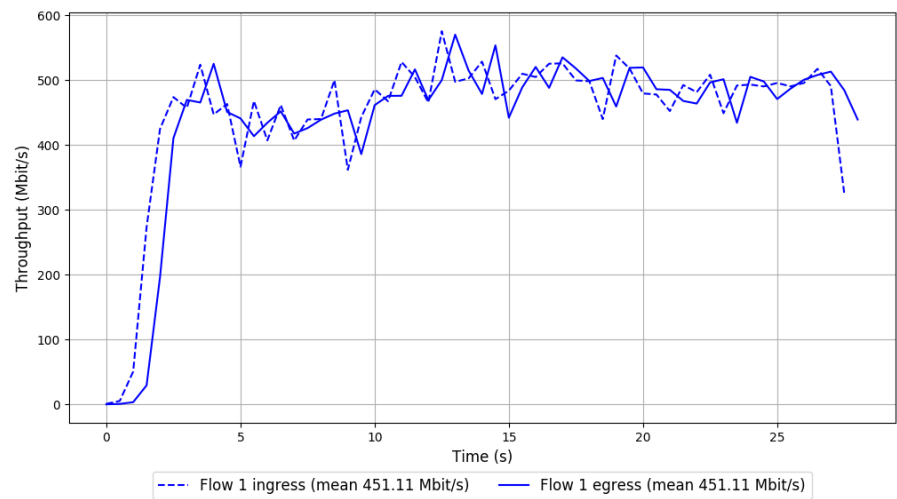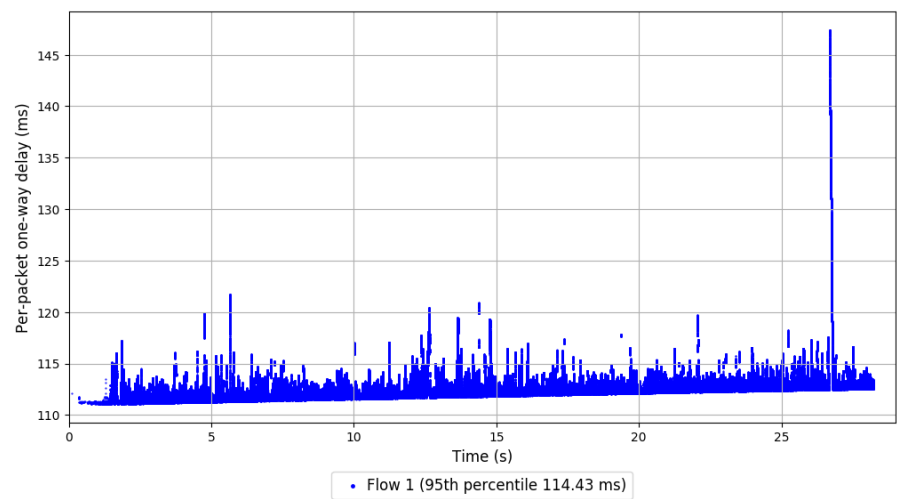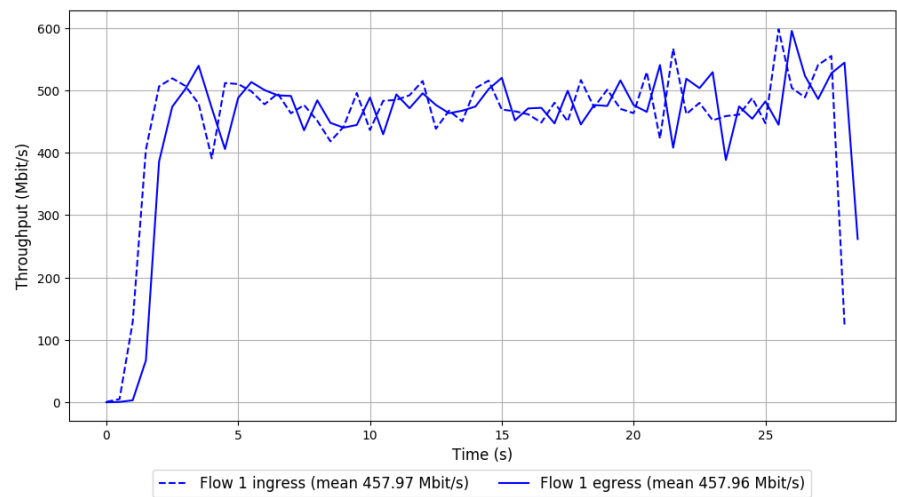
Run 5: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 447.39 Mbit/s)   Flow 1 egress (mean 447.39 Mbit/s)

Flow 1 (95th percentile 111.33 ms)

```
Run 1: Statistics of Indigo-MusesT

Start at: 2020-04-16 04:36:27
End at: 2020-04-16 04:36:57
Local clock offset: -0.242 ms
Remote clock offset: 25.601 ms


# Below is generated by plot.py at 2020-04-16 08:25:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 451.11 Mbit/s
95th percentile per-packet one-way delay: 112.838 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 451.11 Mbit/s
95th percentile per-packet one-way delay: 112.838 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesT — Data Link

```
Run 2: Statistics of Indigo-MusesT

Start at: 2020-04-16 05:10:52
End at: 2020-04-16 05:11:22
Local clock offset: -0.282 ms
Remote clock offset: 36.774 ms


# Below is generated by plot.py at 2020-04-16 08:27:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 457.96 Mbit/s
95th percentile per-packet one-way delay: 114.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 457.96 Mbit/s
95th percentile per-packet one-way delay: 114.430 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesT — Data Link

```
Run 3: Statistics of Indigo-MusesT

Start at: 2020-04-16 05:45:37
End at: 2020-04-16 05:46:07
Local clock offset: -0.17 ms
Remote clock offset: 17.316 ms


# Below is generated by plot.py at 2020-04-16 08:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 456.19 Mbit/s
95th percentile per-packet one-way delay: 126.919 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 456.19 Mbit/s
95th percentile per-packet one-way delay: 126.919 ms
Loss rate: 0.00%
```
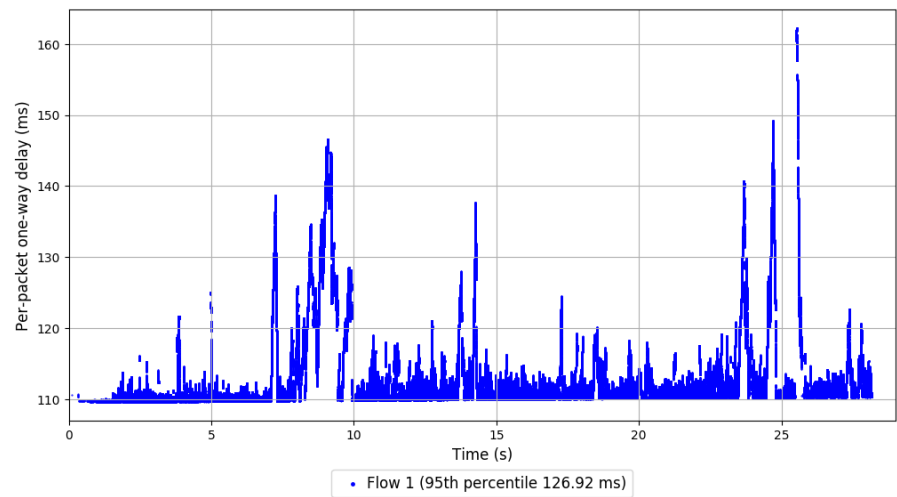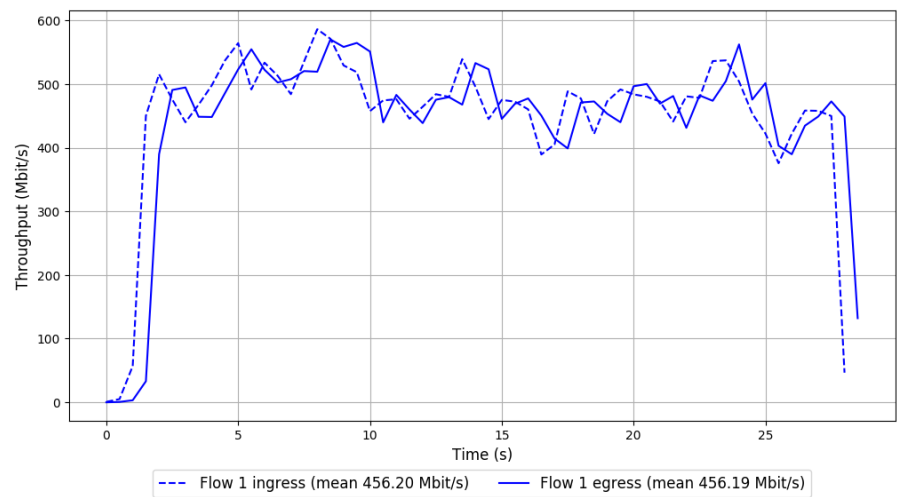
Run 3: Report of Indigo-MusesT — Data Link

```
Run 4: Statistics of Indigo-MusesT

Start at: 2020-04-16 06:20:25
End at: 2020-04-16 06:20:56
Local clock offset: 0.062 ms
Remote clock offset: 7.779 ms


# Below is generated by plot.py at 2020-04-16 08:30:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 480.58 Mbit/s
95th percentile per-packet one-way delay: 110.891 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 480.58 Mbit/s
95th percentile per-packet one-way delay: 110.891 ms
Loss rate: 0.00%
```
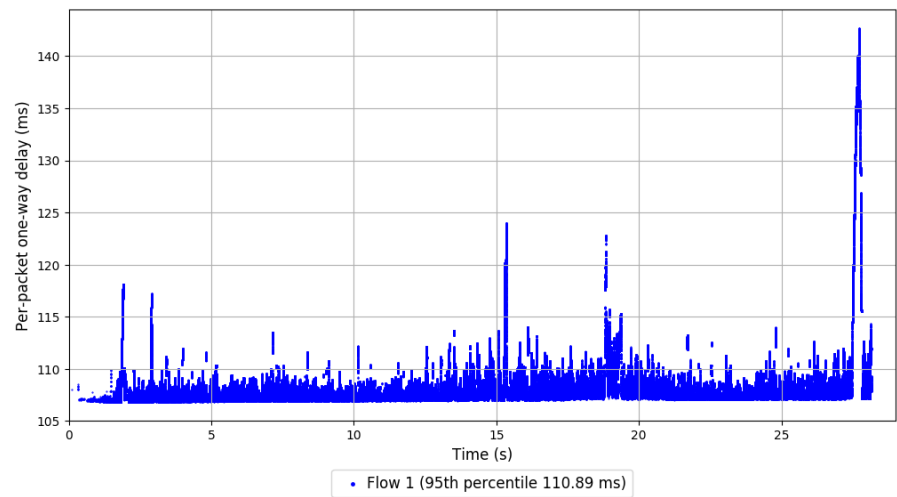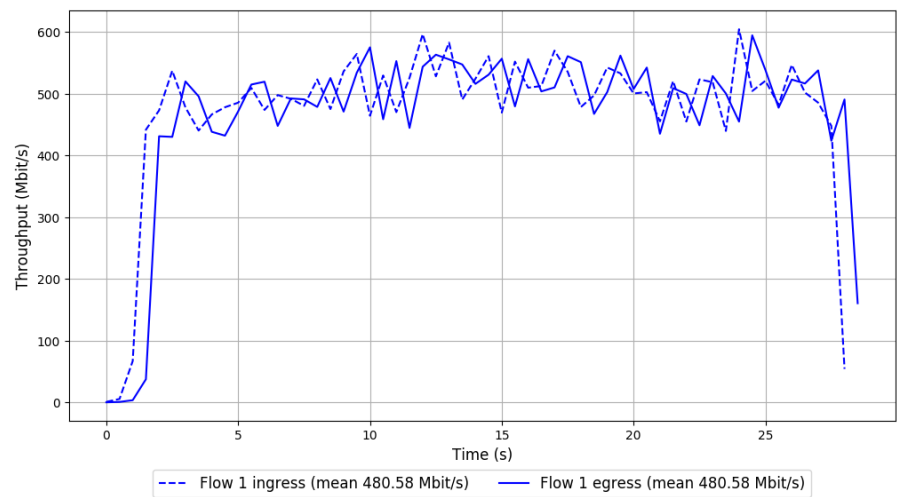
Run 4: Report of Indigo-MusesT — Data Link

```
Run 5: Statistics of Indigo-MusesT

Start at: 2020-04-16 06:54:52
End at: 2020-04-16 06:55:22
Local clock offset: -1.297 ms
Remote clock offset: 7.605 ms


# Below is generated by plot.py at 2020-04-16 08:30:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 460.77 Mbit/s
95th percentile per-packet one-way delay: 110.705 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 460.77 Mbit/s
95th percentile per-packet one-way delay: 110.705 ms
Loss rate: 0.00%
```
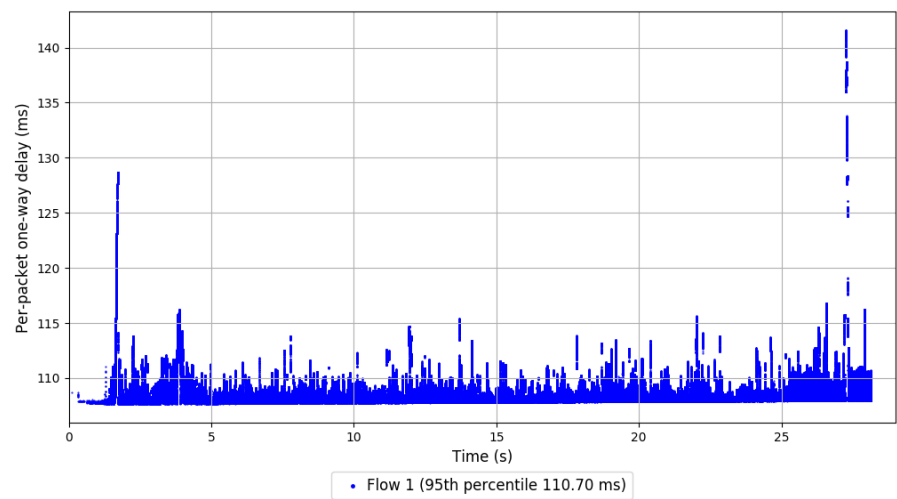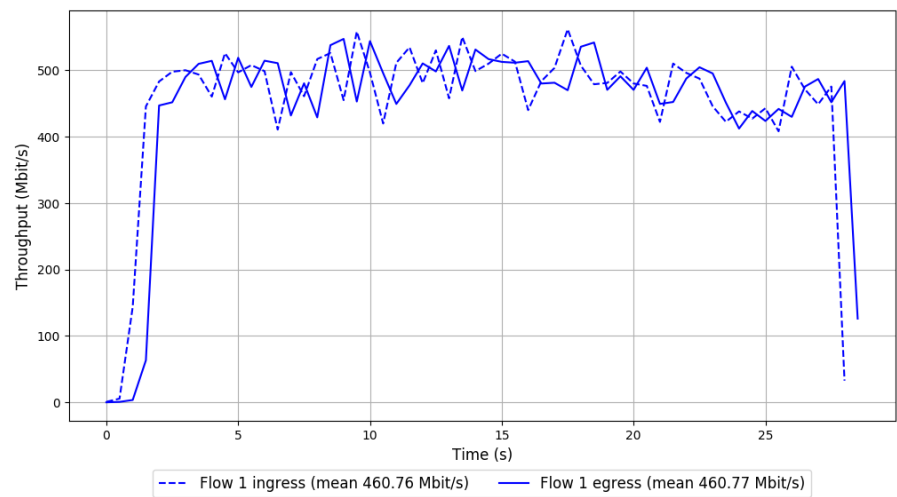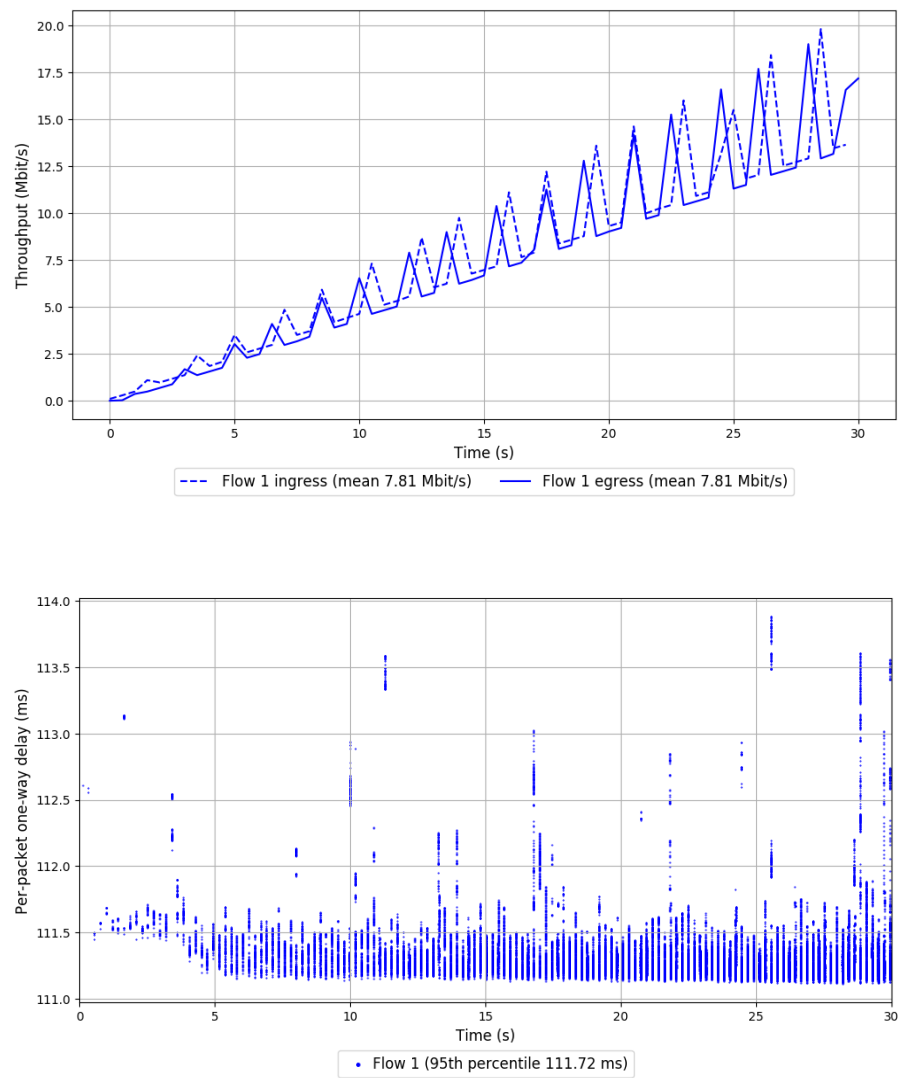
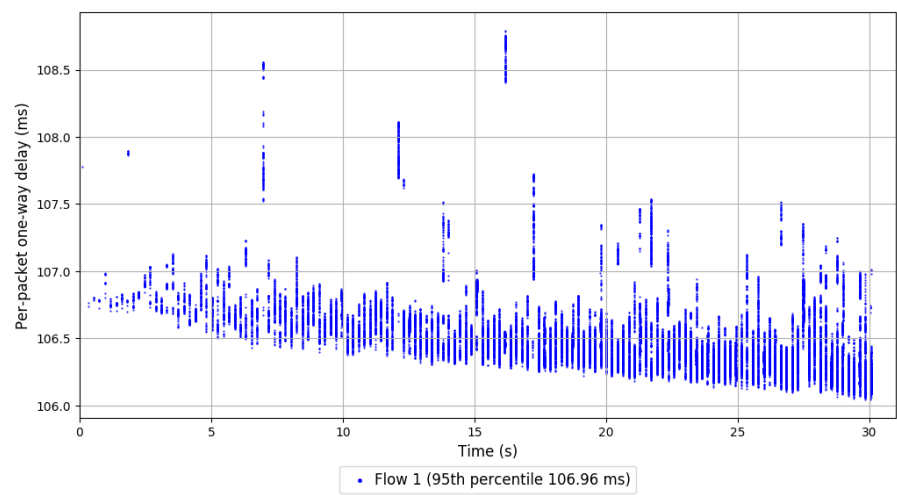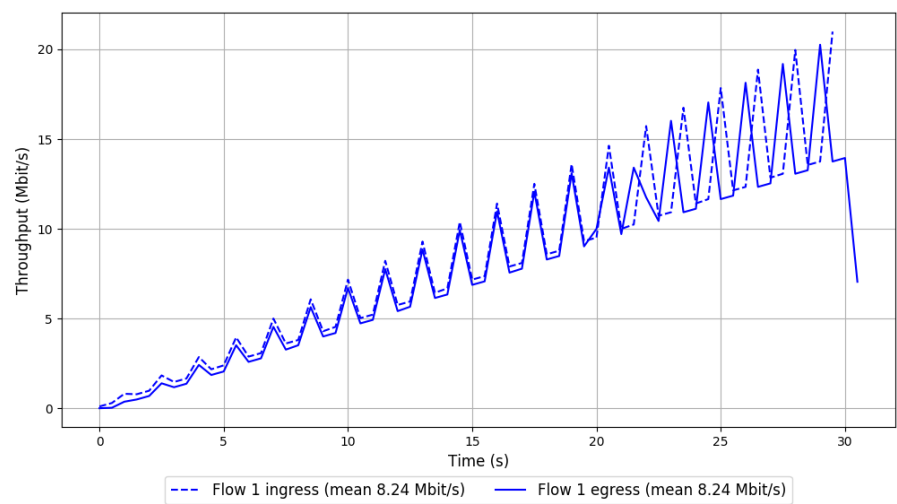Run 5: Report of Indigo-MusesT — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2020-04-16 04:22:20
End at: 2020-04-16 04:22:50
Local clock offset: 0.644 ms
Remote clock offset: 13.641 ms


# Below is generated by plot.py at 2020-04-16 08:30:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 111.716 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 111.716 ms
Loss rate: 0.00%
```

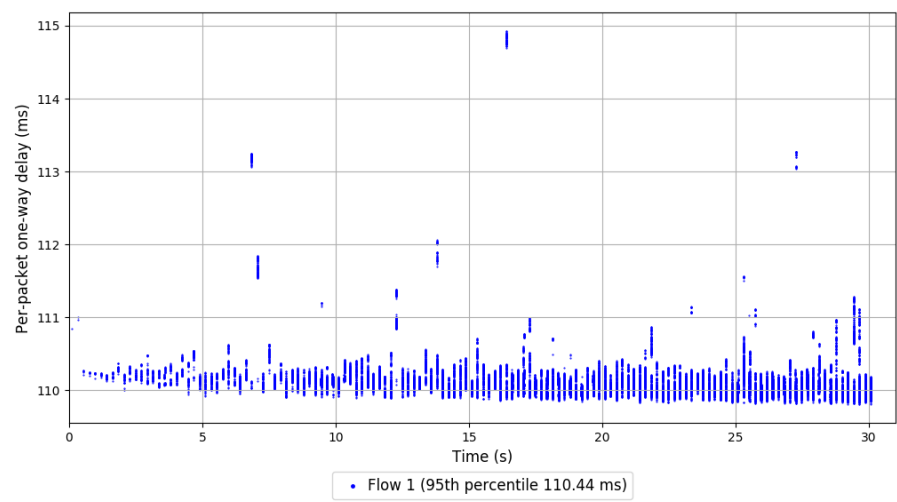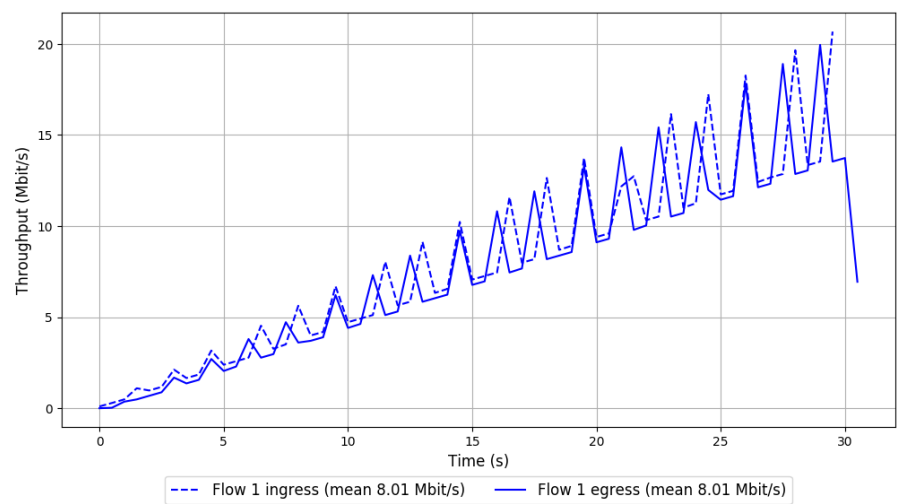Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2020-04-16 04:56:58
End at: 2020-04-16 04:57:28
Local clock offset: -0.392 ms
Remote clock offset: 28.086 ms


# Below is generated by plot.py at 2020-04-16 08:30:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 106.961 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 106.961 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2020-04-16 05:31:19
End at: 2020-04-16 05:31:49
Local clock offset: -0.359 ms
Remote clock offset: 16.141 ms


# Below is generated by plot.py at 2020-04-16 08:30:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 110.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 110.435 ms
Loss rate: 0.00%
```
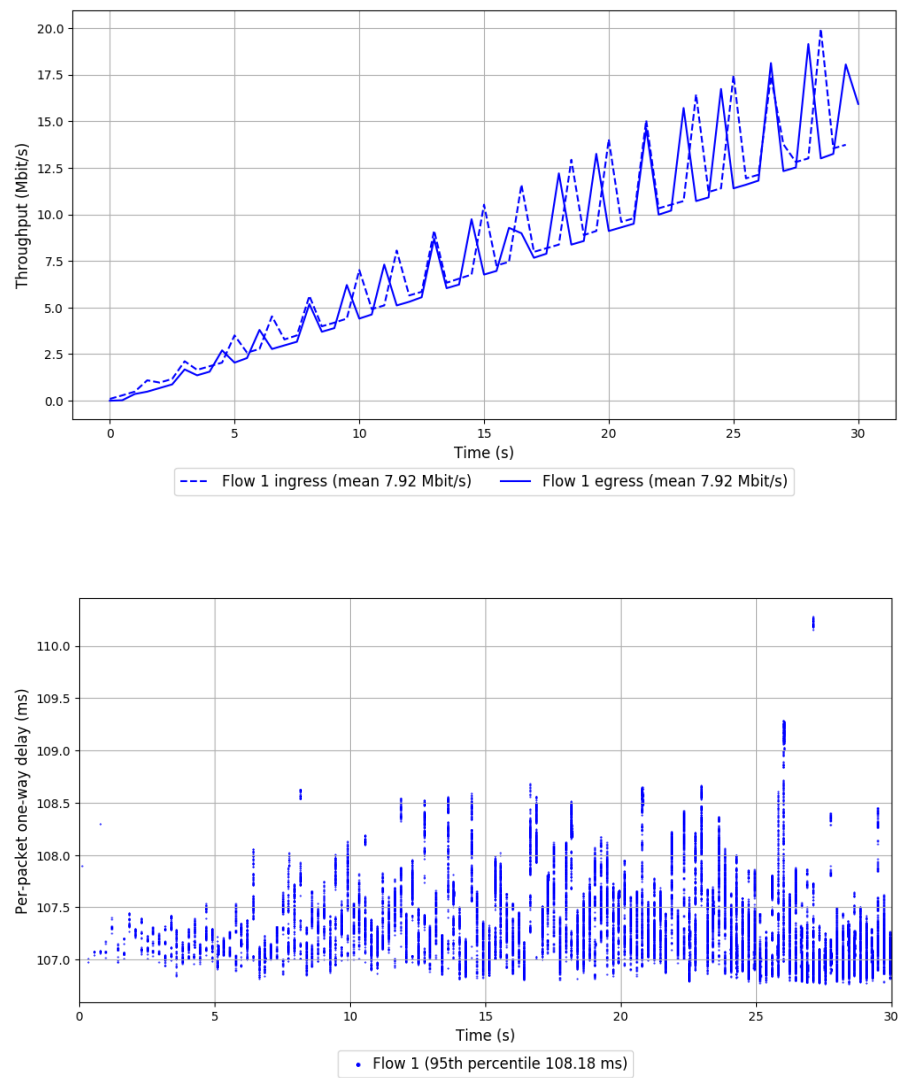
Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 8.01 Mbit/s) --- Flow 1 egress (mean 8.01 Mbit/s)

Flow 1 (95th percentile 110.44 ms)

```
Run 4: Statistics of LEDBAT

Start at: 2020-04-16 06:06:40
End at: 2020-04-16 06:07:10
Local clock offset: -0.074 ms
Remote clock offset: 7.918 ms

# Below is generated by plot.py at 2020-04-16 08:30:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 108.184 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 108.184 ms
Loss rate: 0.00%
```
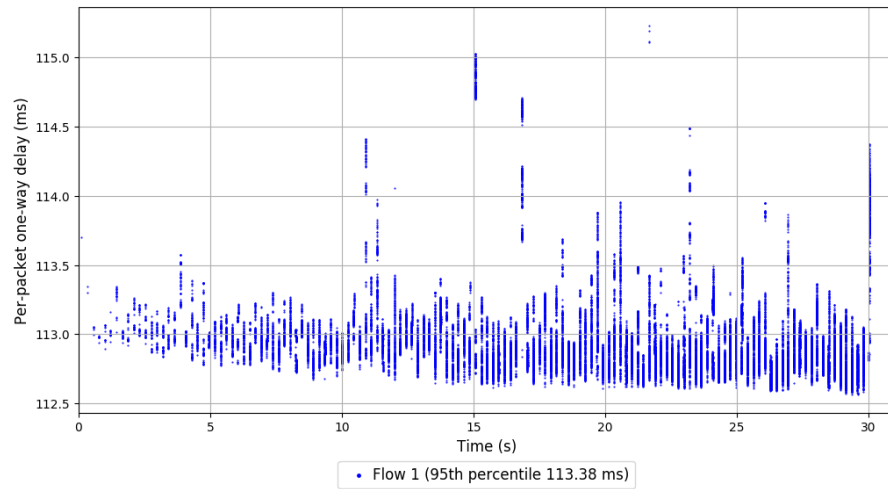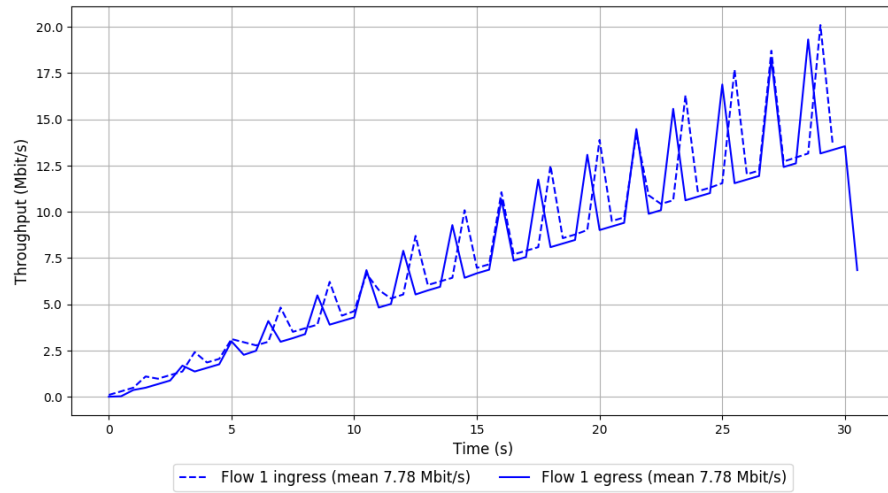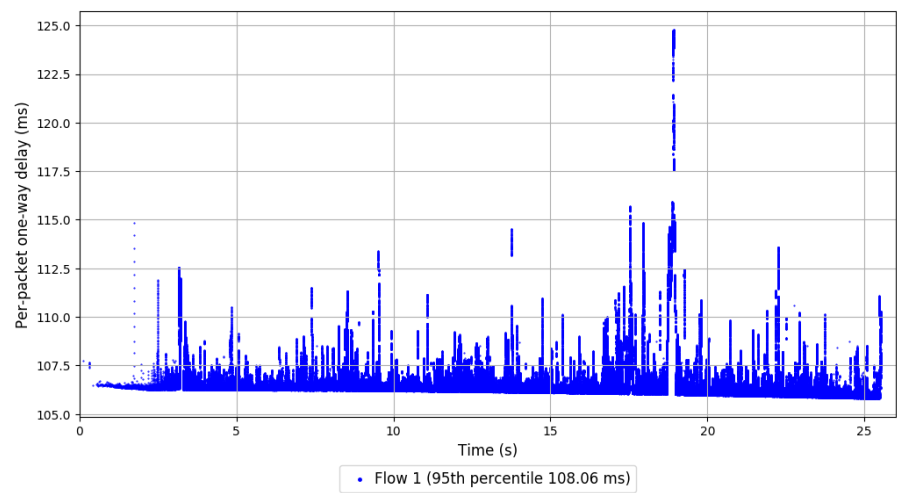
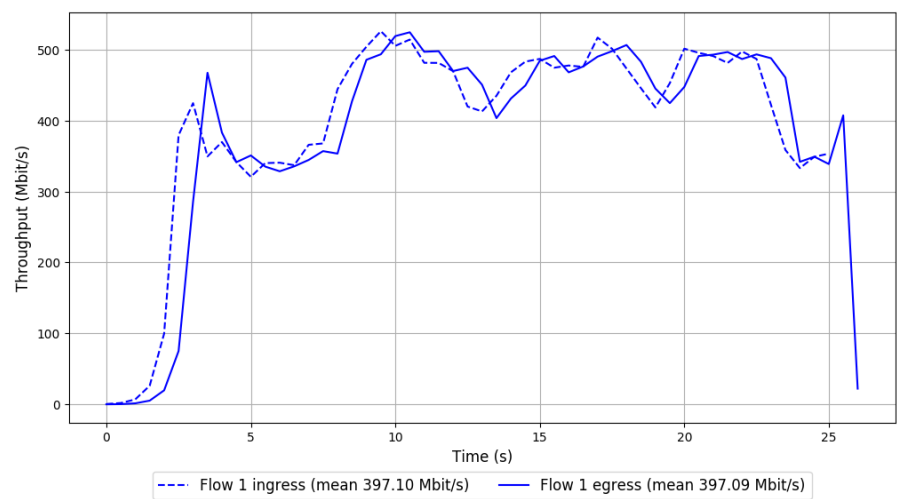# Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2020-04-16 06:40:54
End at: 2020-04-16 06:41:24
Local clock offset: -0.684 ms
Remote clock offset: 7.367 ms


# Below is generated by plot.py at 2020-04-16 08:30:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 113.382 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 113.382 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 7.78 Mbit/s)   Flow 1 egress (mean 7.78 Mbit/s)

Flow 1 (95th percentile 113.38 ms)

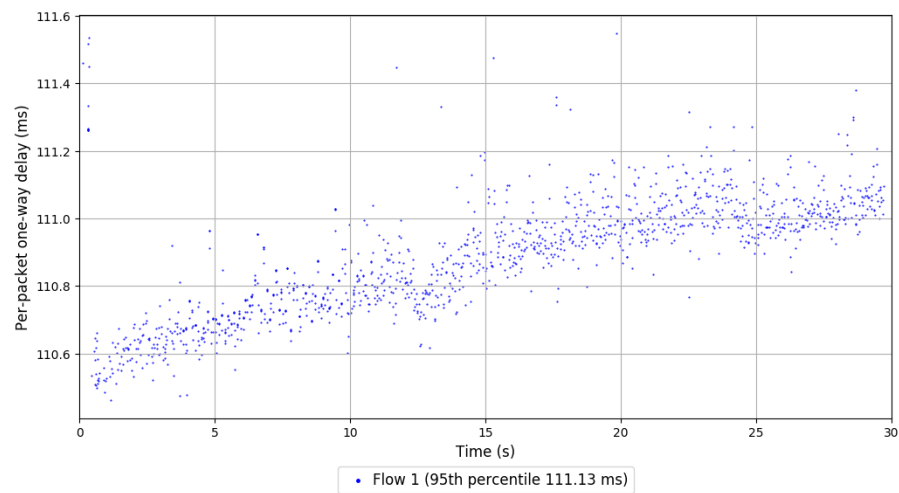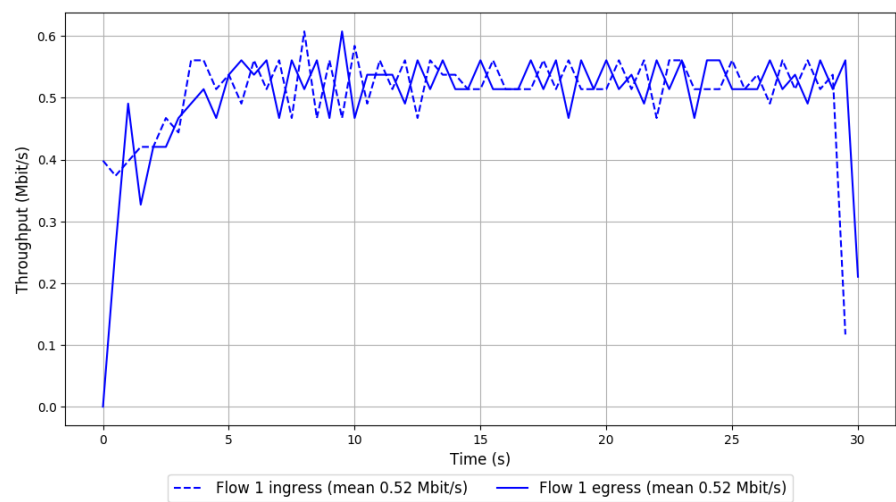Run 1: Statistics of Muses_DecisionTree

Start at: 2020-04-16 04:03:34
End at: 2020-04-16 04:04:05
Local clock offset: 0.201 ms
Remote clock offset: 4.677 ms

Below is generated by plot.py at 2020-04-16 08:31:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 397.09 Mbit/s
95th percentile per-packet one-way delay: 108.064 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 397.09 Mbit/s
95th percentile per-packet one-way delay: 108.064 ms
Loss rate: 0.00%
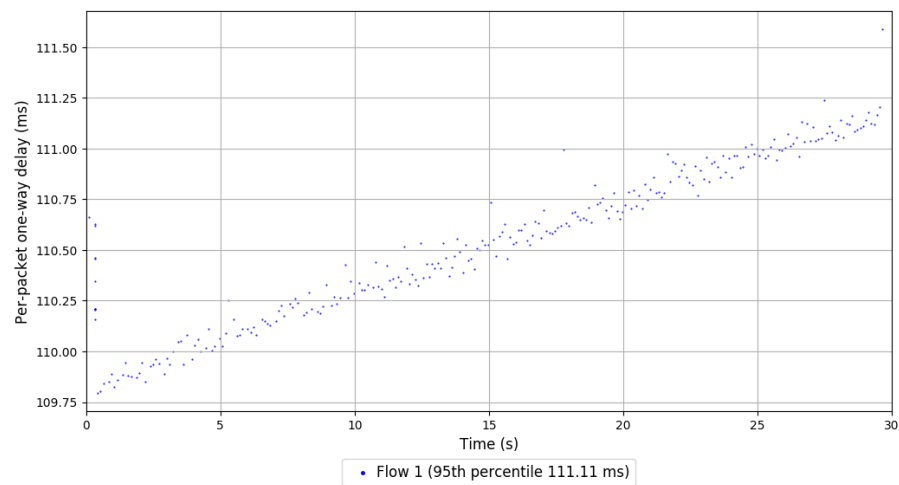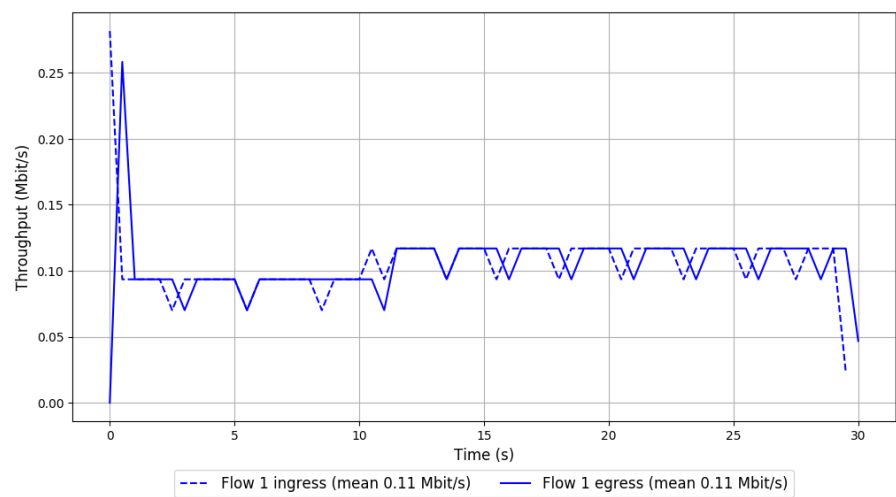
Run 1: Report of Muses_DecisionTree — Data Link

```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2020-04-16 04:38:00
End at: 2020-04-16 04:38:30
Local clock offset: -0.245 ms
Remote clock offset: 23.492 ms


# Below is generated by plot.py at 2020-04-16 08:31:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 111.132 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 111.132 ms
Loss rate: 0.08%
```
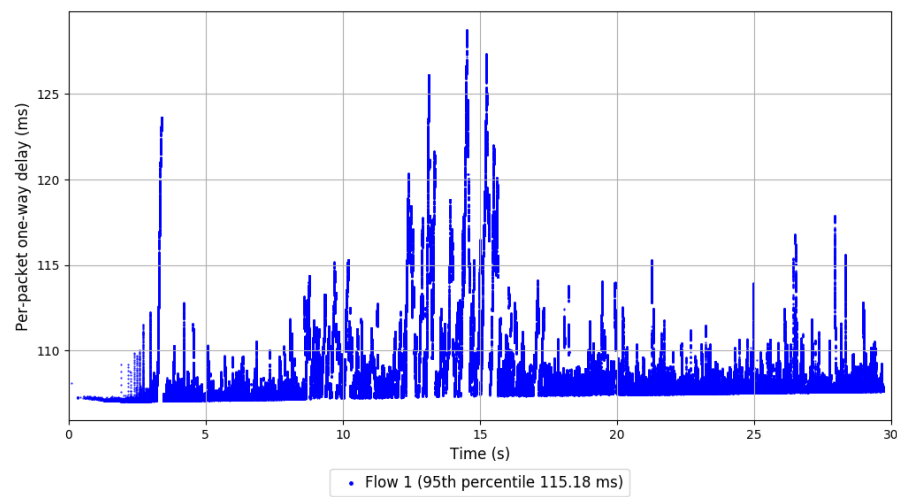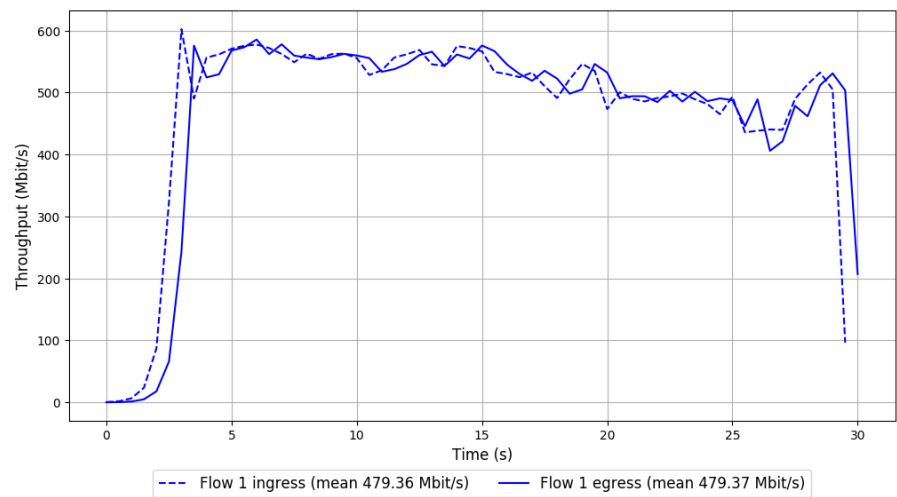
Run 2: Report of Muses_DecisionTree — Data Link

Flow 1 ingress (mean 0.52 Mbit/s)   Flow 1 egress (mean 0.52 Mbit/s)

Flow 1 (95th percentile 111.13 ms)

```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2020-04-16 05:12:26
End at: 2020-04-16 05:12:56
Local clock offset: -0.354 ms
Remote clock offset: 31.369 ms


# Below is generated by plot.py at 2020-04-16 08:31:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 111.111 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 111.111 ms
Loss rate: 0.00%
```

Run 3: Report of Muses_DecisionTree — Data Link

Flow 1 ingress (mean 0.11 Mbit/s)   Flow 1 egress (mean 0.11 Mbit/s)

Flow 1 (95th percentile 111.11 ms)

```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2020-04-16 05:47:10
End at: 2020-04-16 05:47:40
Local clock offset: -0.283 ms
Remote clock offset: 14.713 ms


# Below is generated by plot.py at 2020-04-16 08:35:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 479.37 Mbit/s
95th percentile per-packet one-way delay: 115.177 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 479.37 Mbit/s
95th percentile per-packet one-way delay: 115.177 ms
Loss rate: 0.00%
```
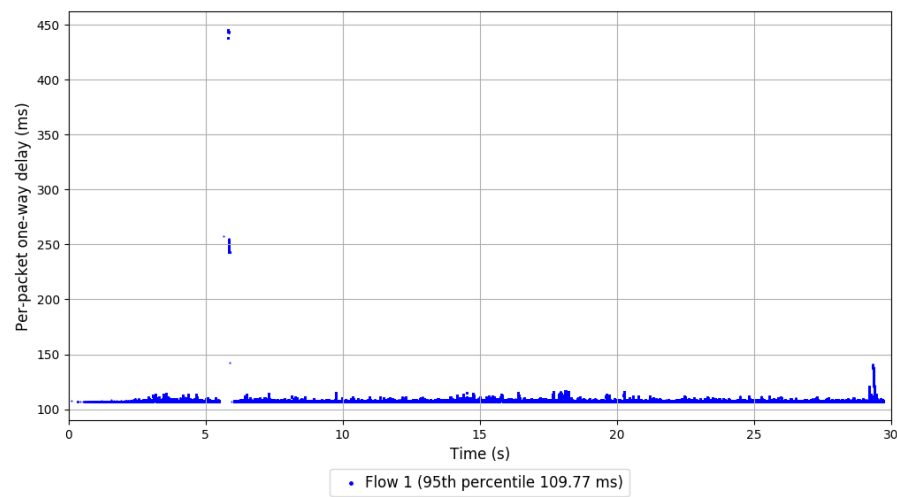
Run 4: Report of Muses_DecisionTree — Data Link

```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2020-04-16 06:22:00
End at: 2020-04-16 06:22:30
Local clock offset: -0.077 ms
Remote clock offset: 6.629 ms


# Below is generated by plot.py at 2020-04-16 08:35:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 445.63 Mbit/s
95th percentile per-packet one-way delay: 109.772 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 445.63 Mbit/s
95th percentile per-packet one-way delay: 109.772 ms
Loss rate: 0.76%
```
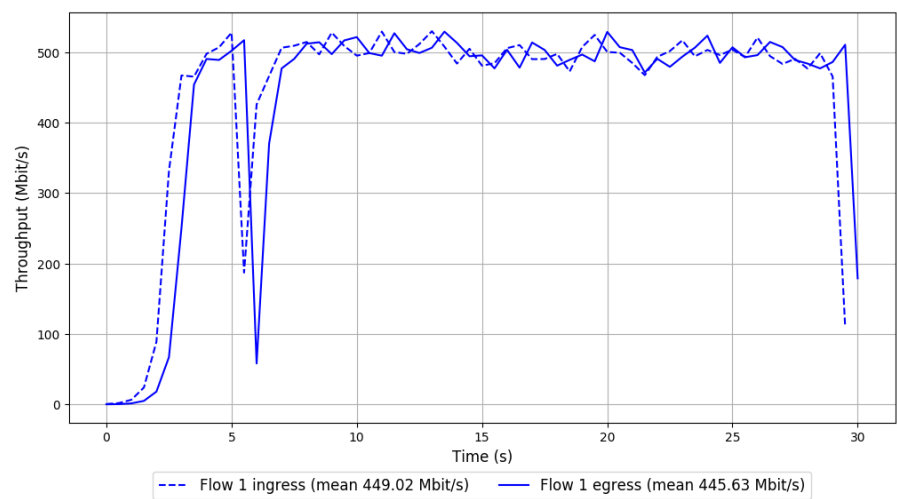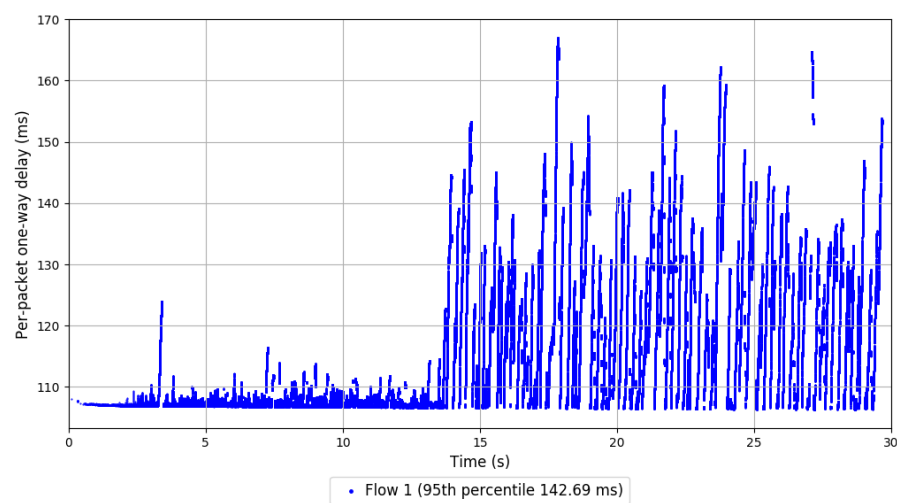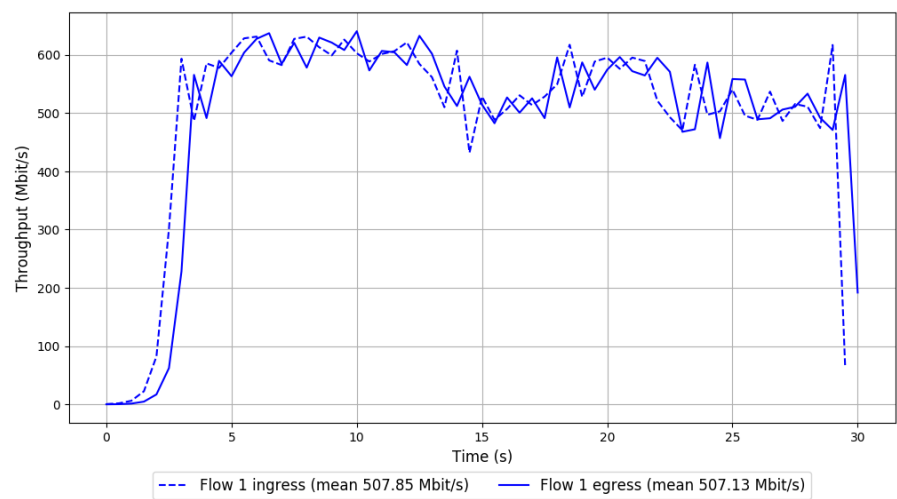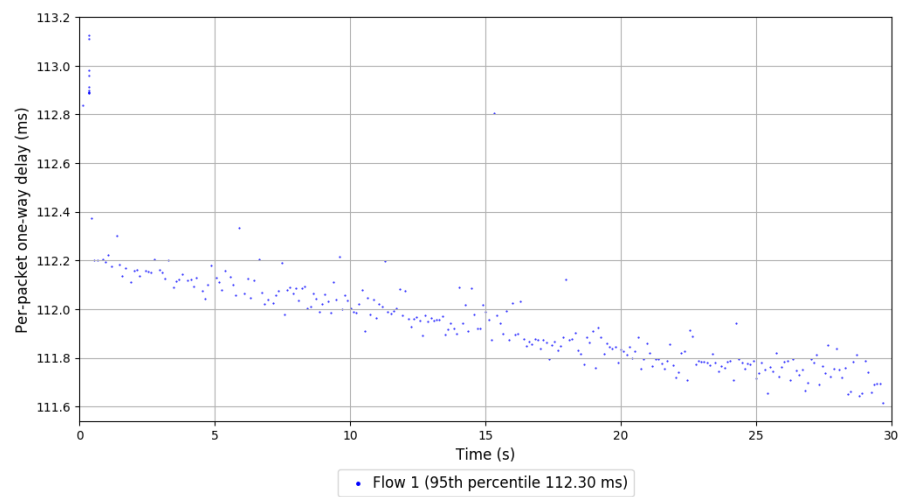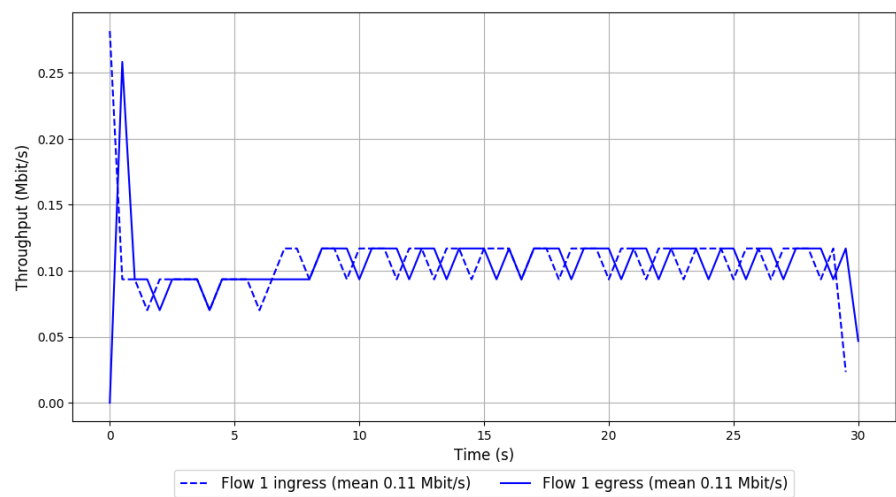
Run 5: Report of Muses_DecisionTree — Data Link

Flow 1 ingress (mean 449.02 Mbit/s) — Flow 1 egress (mean 445.63 Mbit/s)

Flow 1 (95th percentile 109.77 ms)

```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-16 04:32:04
End at: 2020-04-16 04:32:34
Local clock offset: -1.463 ms
Remote clock offset: 22.738 ms


# Below is generated by plot.py at 2020-04-16 08:40:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 507.13 Mbit/s
95th percentile per-packet one-way delay: 142.690 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 507.13 Mbit/s
95th percentile per-packet one-way delay: 142.690 ms
Loss rate: 0.15%
```

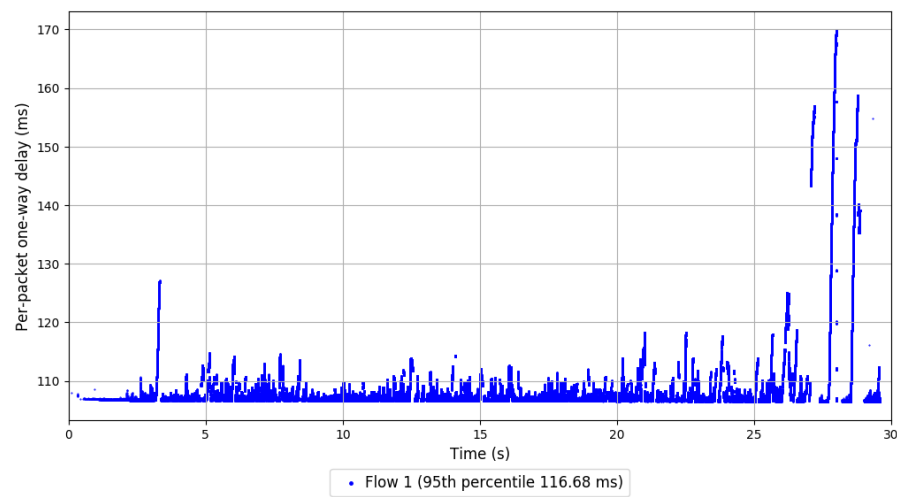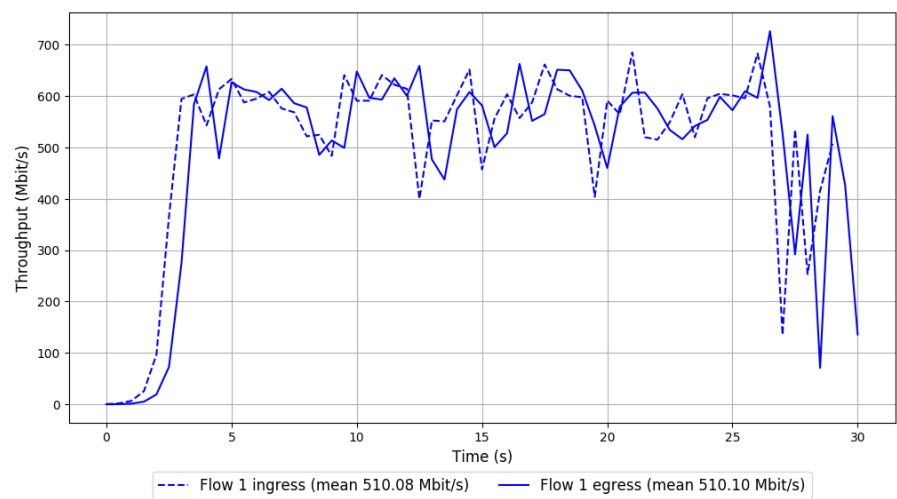Run 1: Report of Muses_DecisionTreeH0 — Data Link

```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-16 05:06:47
End at: 2020-04-16 05:07:17
Local clock offset: -0.309 ms
Remote clock offset: 38.576 ms


# Below is generated by plot.py at 2020-04-16 08:40:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 112.300 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 112.300 ms
Loss rate: 0.00%
```
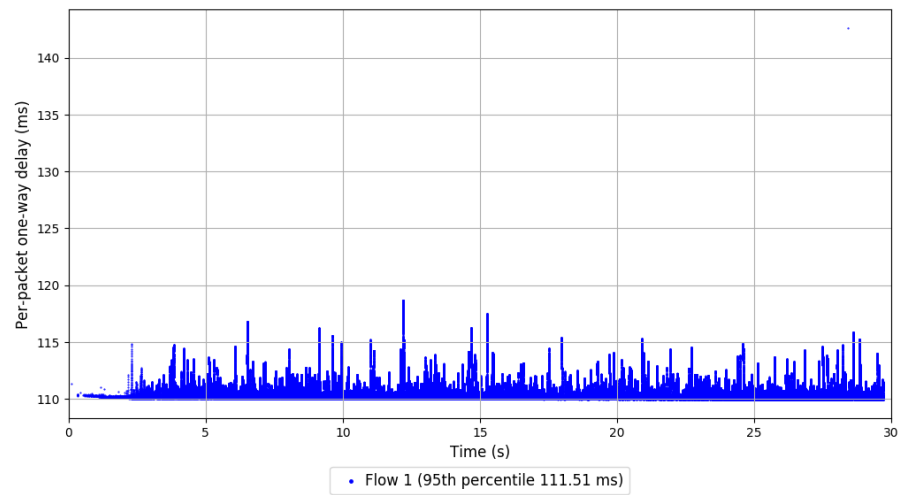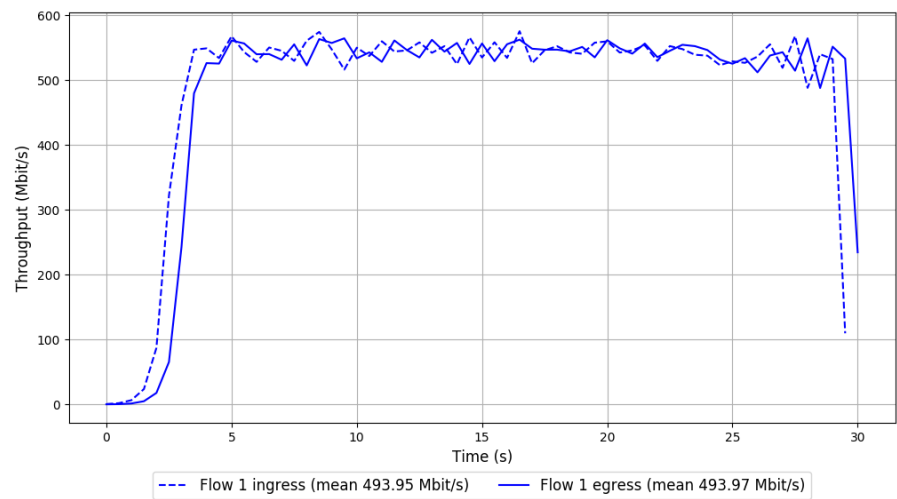
Run 2: Report of Muses_DecisionTreeH0 — Data Link

Flow 1 ingress (mean 0.11 Mbit/s)   Flow 1 egress (mean 0.11 Mbit/s)
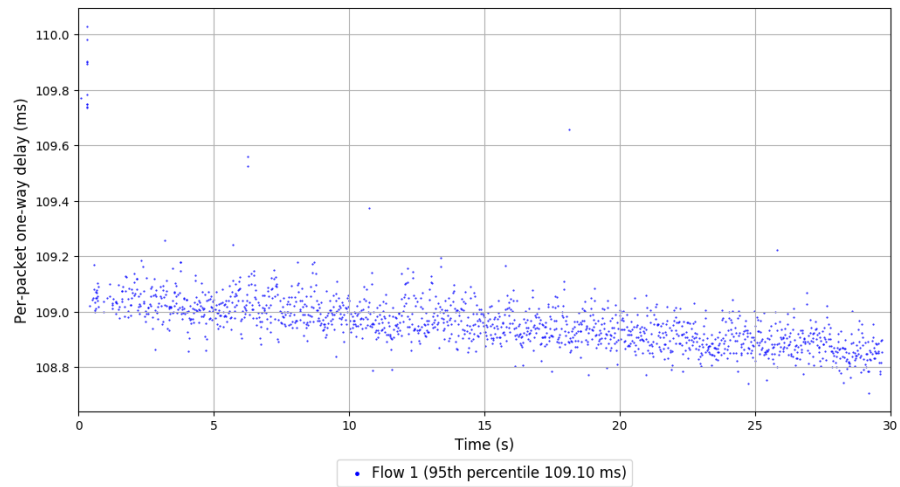

Flow 1 (95th percentile 112.30 ms)

```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-16 05:41:11
End at: 2020-04-16 05:41:41
Local clock offset: -0.498 ms
Remote clock offset: 19.872 ms


# Below is generated by plot.py at 2020-04-16 08:42:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 510.10 Mbit/s
95th percentile per-packet one-way delay: 116.684 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 510.10 Mbit/s
95th percentile per-packet one-way delay: 116.684 ms
Loss rate: 0.00%
```

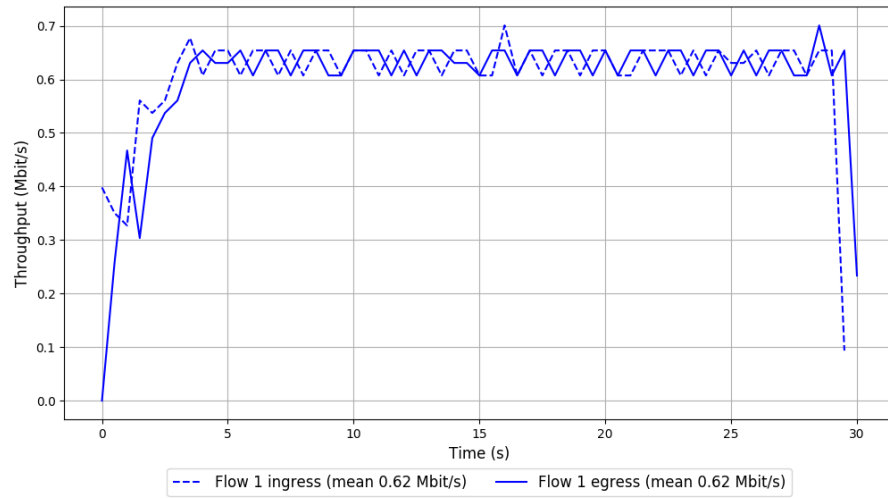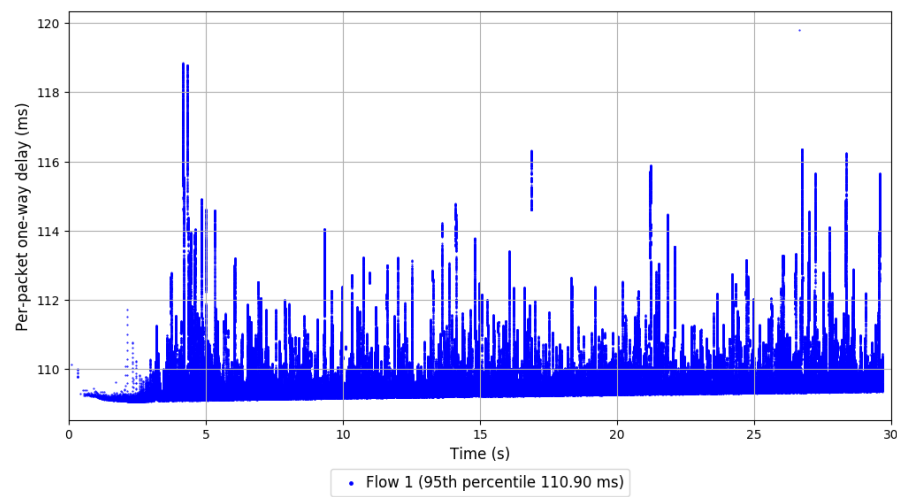Run 3: Report of Muses_DecisionTreeH0 — Data Link

```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-16 06:16:03
End at: 2020-04-16 06:16:33
Local clock offset: -0.28 ms
Remote clock offset: 9.674 ms


# Below is generated by plot.py at 2020-04-16 08:43:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 493.97 Mbit/s
95th percentile per-packet one-way delay: 111.507 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 493.97 Mbit/s
95th percentile per-packet one-way delay: 111.507 ms
Loss rate: 0.01%
```
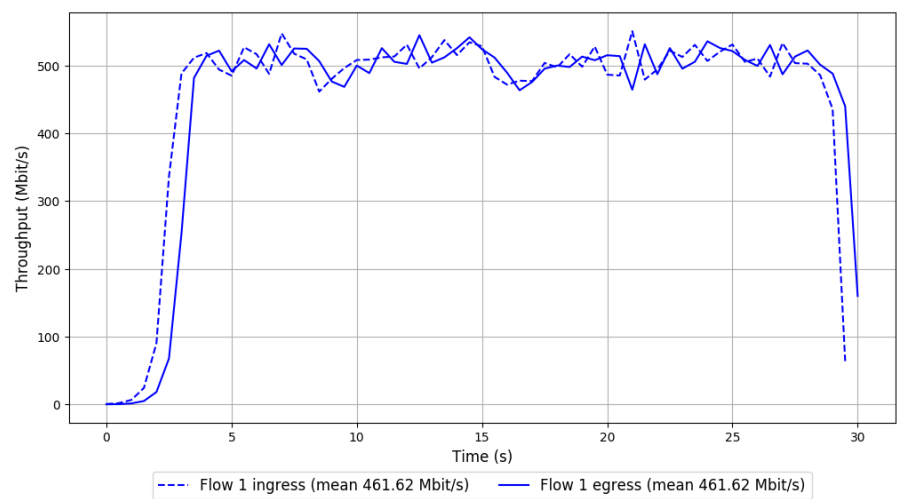
Run 4: Report of Muses_DecisionTreeH0 — Data Link

```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-16 06:50:46
End at: 2020-04-16 06:51:16
Local clock offset: 0.667 ms
Remote clock offset: 10.063 ms


# Below is generated by plot.py at 2020-04-16 08:43:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 109.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 109.097 ms
Loss rate: 0.00%
```
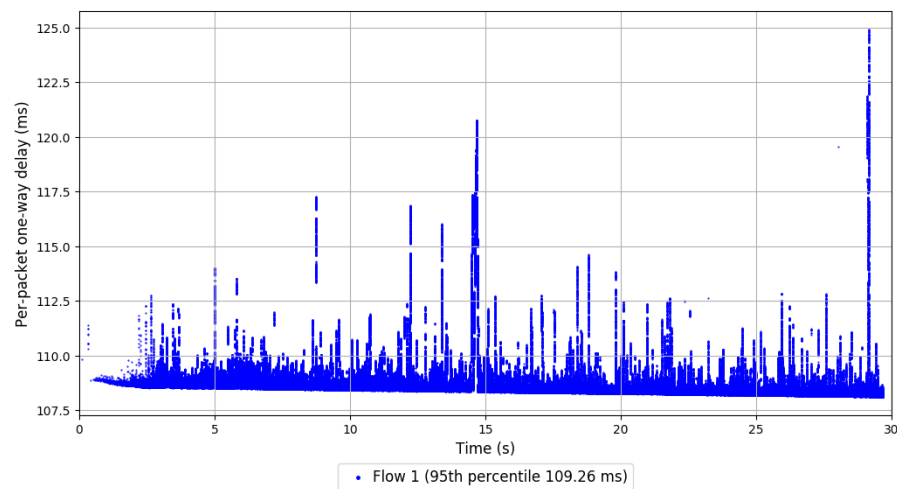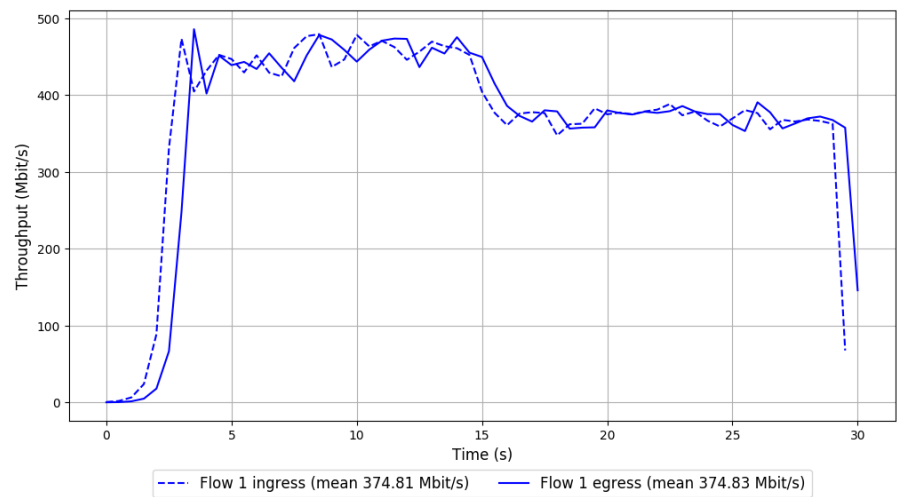
Run 5: Report of Muses_DecisionTreeH0 — Data Link

Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 04:20:45
End at: 2020-04-16 04:21:15
Local clock offset: -0.045 ms
Remote clock offset: 14.345 ms

Below is generated by plot.py at 2020-04-16 08:43:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 461.62 Mbit/s
95th percentile per-packet one-way delay: 110.896 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 461.62 Mbit/s
95th percentile per-packet one-way delay: 110.896 ms
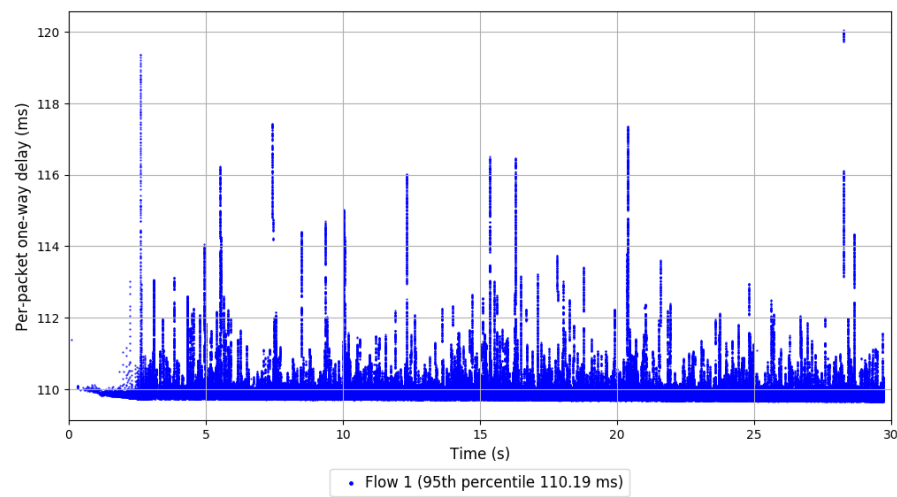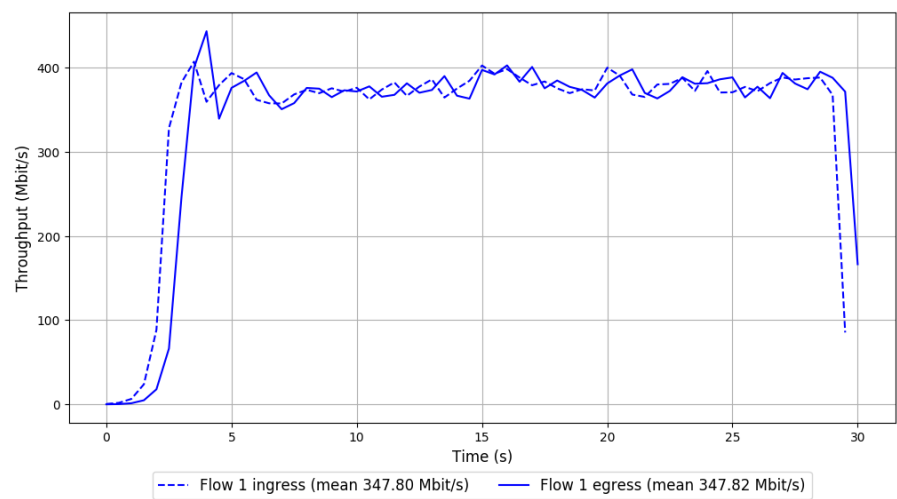Loss rate: 0.01%

Run 1: Report of Muses_DecisionTreeR0 — Data Link

```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-16 04:55:27
End at: 2020-04-16 04:55:57
Local clock offset: -0.141 ms
Remote clock offset: 26.923 ms


# Below is generated by plot.py at 2020-04-16 08:43:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 374.83 Mbit/s
95th percentile per-packet one-way delay: 109.260 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 374.83 Mbit/s
95th percentile per-packet one-way delay: 109.260 ms
Loss rate: 0.00%
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link

```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-16 05:29:50
End at: 2020-04-16 05:30:20
Local clock offset: -0.295 ms
Remote clock offset: 15.946 ms


# Below is generated by plot.py at 2020-04-16 08:43:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 347.82 Mbit/s
95th percentile per-packet one-way delay: 110.190 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 347.82 Mbit/s
95th percentile per-packet one-way delay: 110.190 ms
Loss rate: 0.00%
```
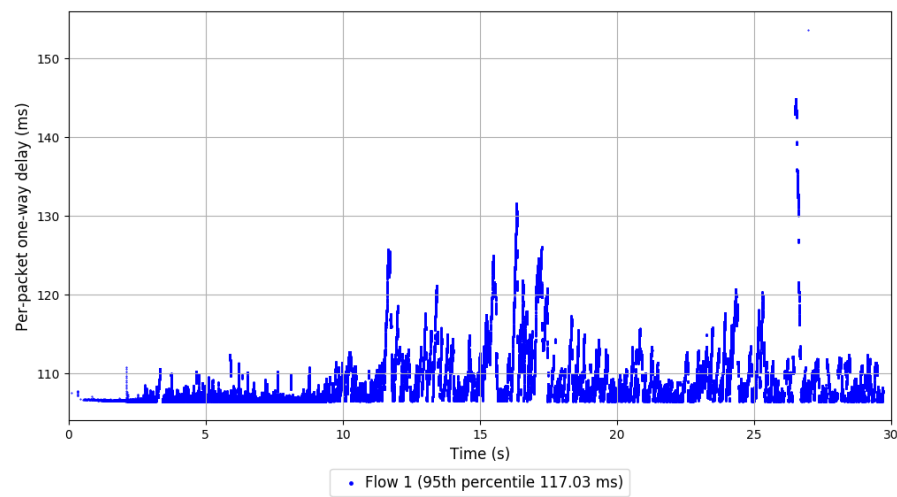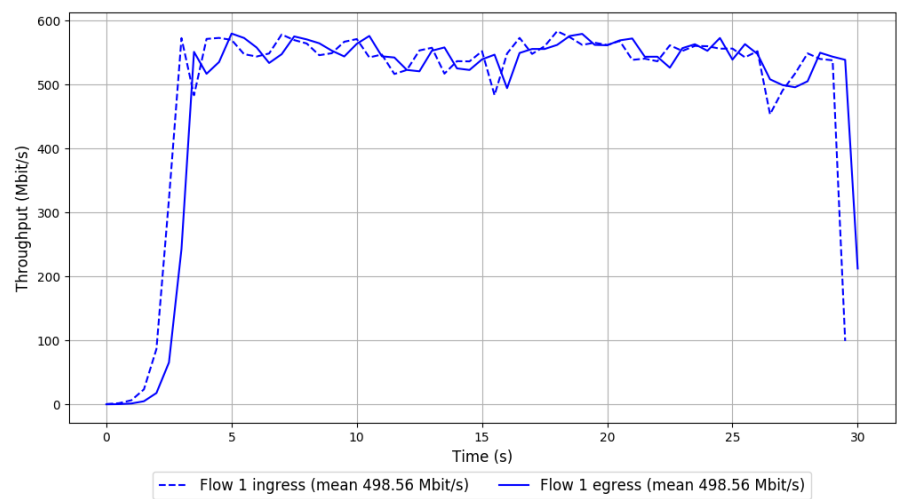
Run 3: Report of Muses_DecisionTreeR0 — Data Link

Flow 1 ingress (mean 347.80 Mbit/s)   Flow 1 egress (mean 347.82 Mbit/s)

Flow 1 (95th percentile 110.19 ms)

```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-16 06:05:02
End at: 2020-04-16 06:05:32
Local clock offset: -0.034 ms
Remote clock offset: 7.396 ms


# Below is generated by plot.py at 2020-04-16 08:49:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 498.56 Mbit/s
95th percentile per-packet one-way delay: 117.028 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 498.56 Mbit/s
95th percentile per-packet one-way delay: 117.028 ms
Loss rate: 0.00%
```
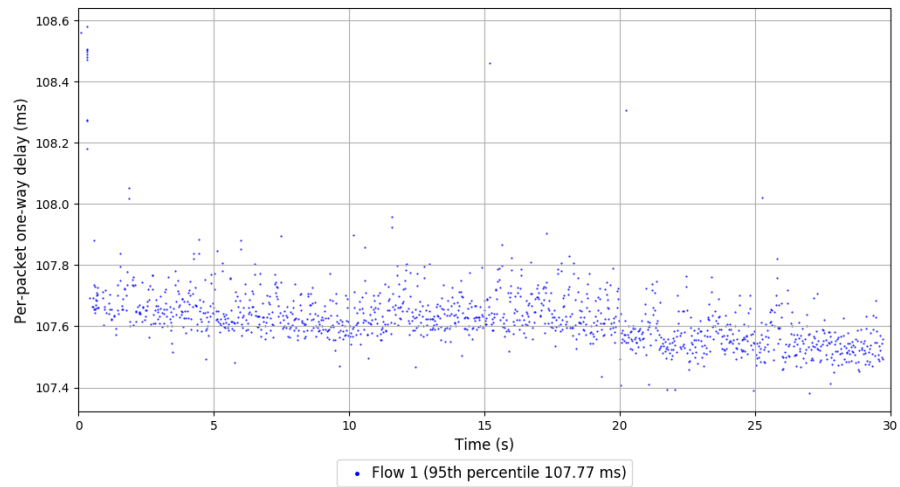
Run 4: Report of Muses_DecisionTreeR0 — Data Link

```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-16 06:39:44
End at: 2020-04-16 06:40:14
Local clock offset: -0.793 ms
Remote clock offset: 7.136 ms


# Below is generated by plot.py at 2020-04-16 08:49:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 107.771 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 107.771 ms
Loss rate: 0.00%
```
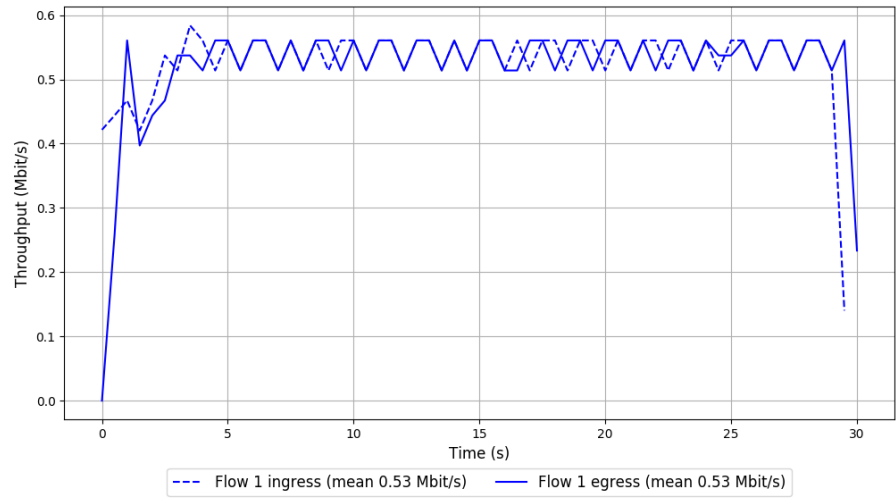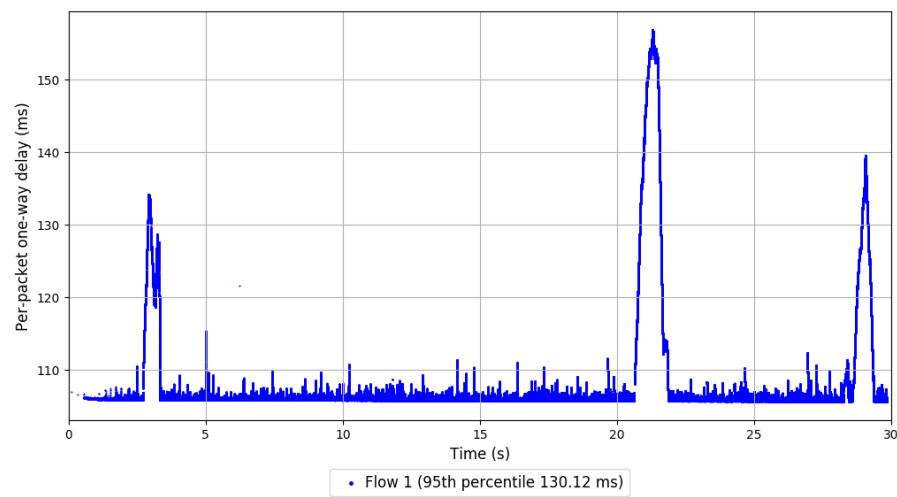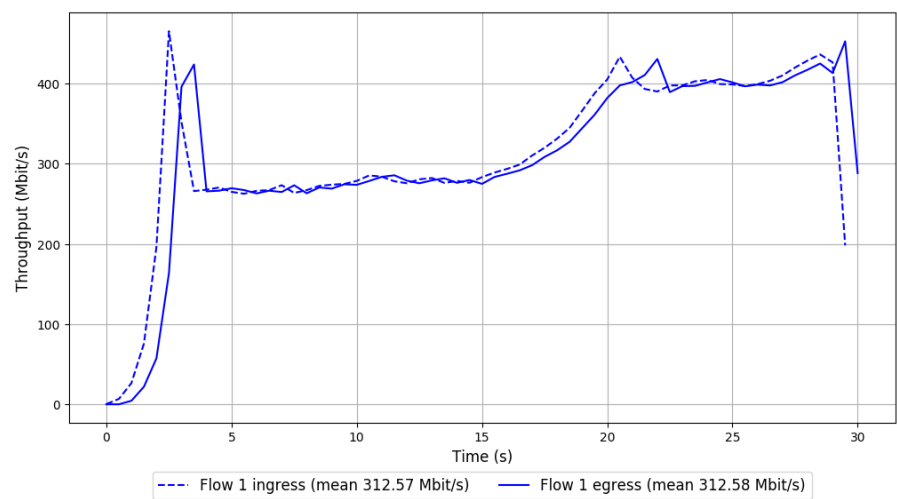
Run 5: Report of Muses_DecisionTreeR0 — Data Link

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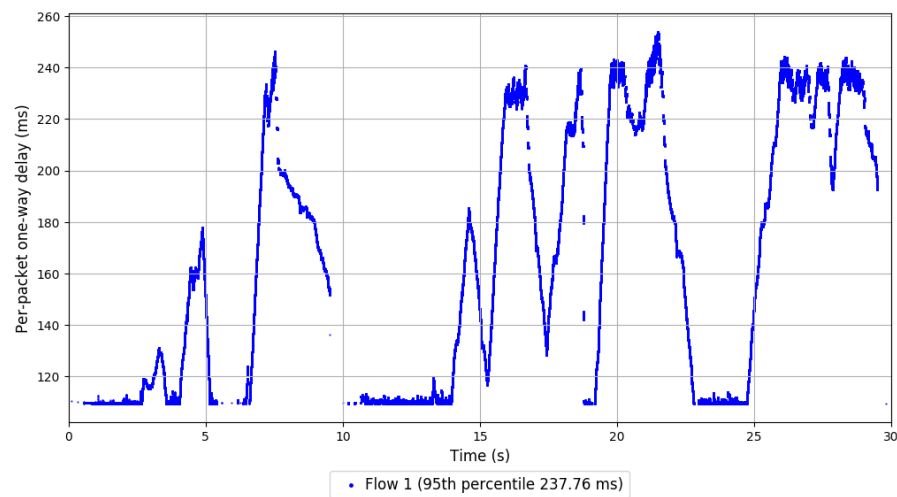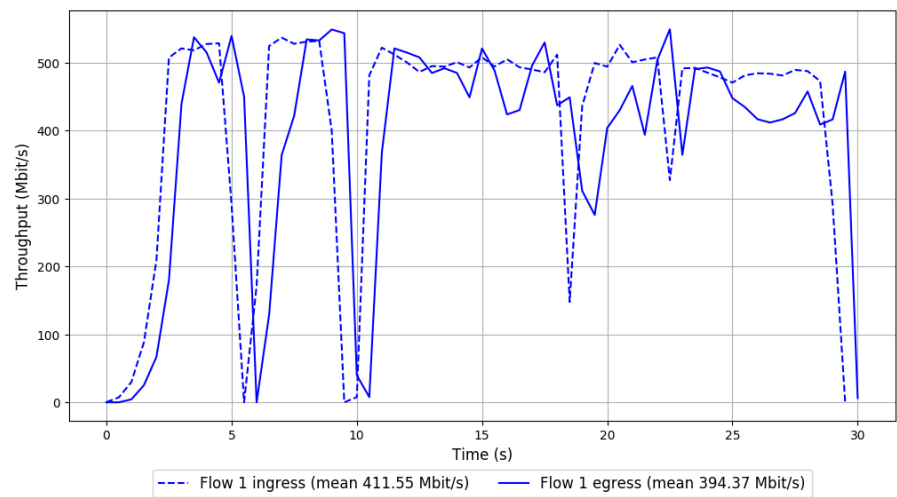

• Flow 1 (95th percentile 107.77 ms)

```
Run 1: Statistics of PCC-Allegro

Start at: 2020-04-16 04:12:05
End at: 2020-04-16 04:12:35
Local clock offset: -0.092 ms
Remote clock offset: 9.174 ms


# Below is generated by plot.py at 2020-04-16 08:51:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.58 Mbit/s
95th percentile per-packet one-way delay: 130.122 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 312.58 Mbit/s
95th percentile per-packet one-way delay: 130.122 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2020-04-16 04:46:35
End at: 2020-04-16 04:47:05
Local clock offset: -0.012 ms
Remote clock offset: 20.943 ms


# Below is generated by plot.py at 2020-04-16 09:02:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 394.37 Mbit/s
95th percentile per-packet one-way delay: 237.761 ms
Loss rate: 4.18%
-- Flow 1:
Average throughput: 394.37 Mbit/s
95th percentile per-packet one-way delay: 237.761 ms
Loss rate: 4.18%
```
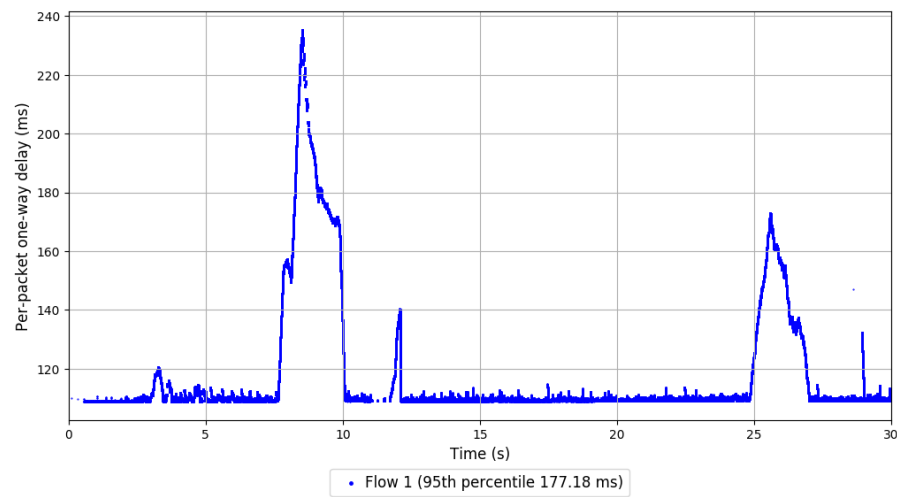
Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2020-04-16 05:20:56
End at: 2020-04-16 05:21:26
Local clock offset: 1.065 ms
Remote clock offset: 17.737 ms

# Below is generated by plot.py at 2020-04-16 09:02:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.93 Mbit/s
95th percentile per-packet one-way delay: 177.178 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 335.93 Mbit/s
95th percentile per-packet one-way delay: 177.178 ms
Loss rate: 0.26%
```
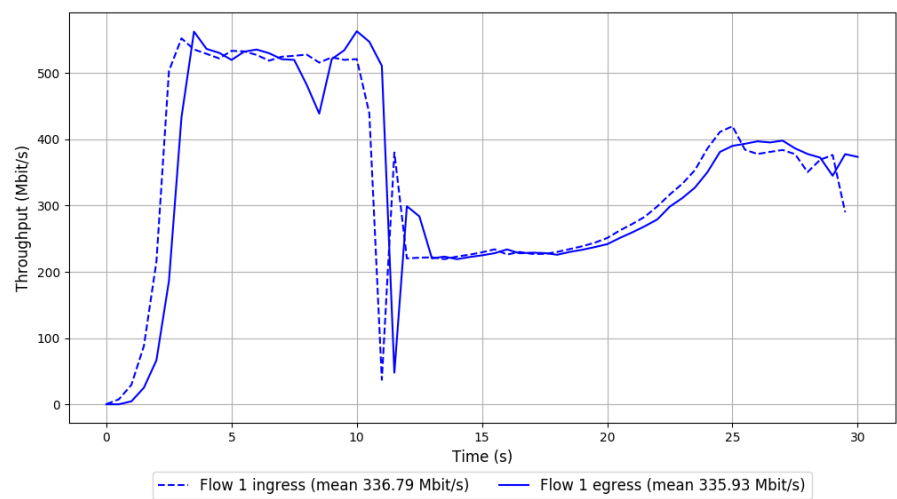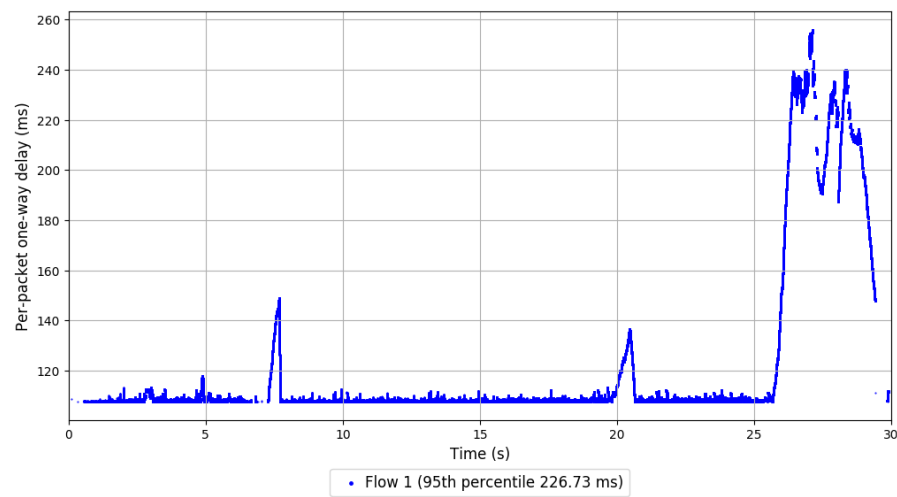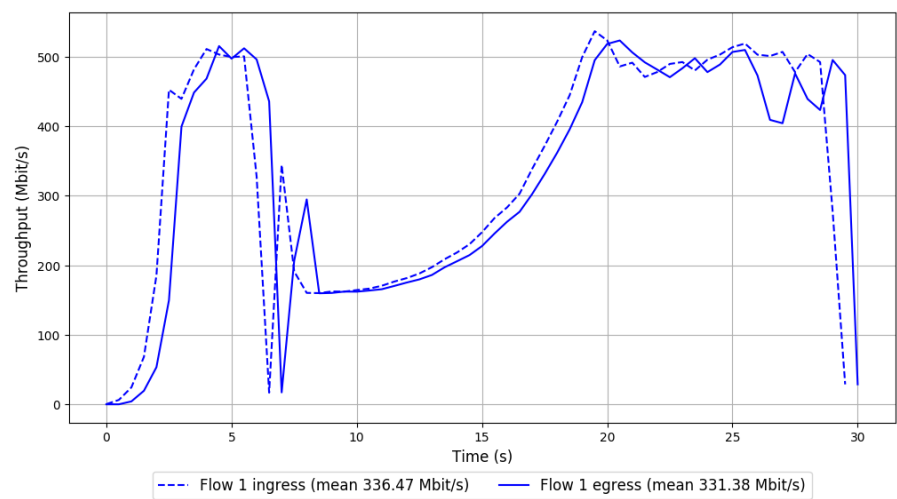
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 336.79 Mbit/s) — — — Flow 1 egress (mean 335.93 Mbit/s)

• Flow 1 (95th percentile 177.18 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2020-04-16 05:56:06
End at: 2020-04-16 05:56:36
Local clock offset: -1.008 ms
Remote clock offset: 8.306 ms


# Below is generated by plot.py at 2020-04-16 09:02:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.38 Mbit/s
95th percentile per-packet one-way delay: 226.734 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 331.38 Mbit/s
95th percentile per-packet one-way delay: 226.734 ms
Loss rate: 1.50%
```
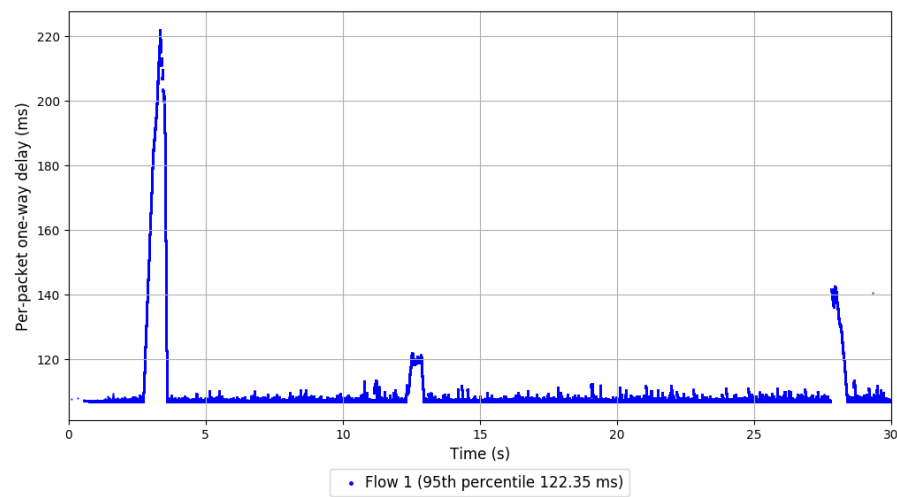
Run 4: Report of PCC-Allegro — Data Link

```
Run 5: Statistics of PCC-Allegro

Start at: 2020-04-16 06:30:54
End at: 2020-04-16 06:31:24
Local clock offset: -0.085 ms
Remote clock offset: 5.937 ms


# Below is generated by plot.py at 2020-04-16 09:04:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 396.45 Mbit/s
95th percentile per-packet one-way delay: 122.346 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 396.45 Mbit/s
95th percentile per-packet one-way delay: 122.346 ms
Loss rate: 0.15%
```
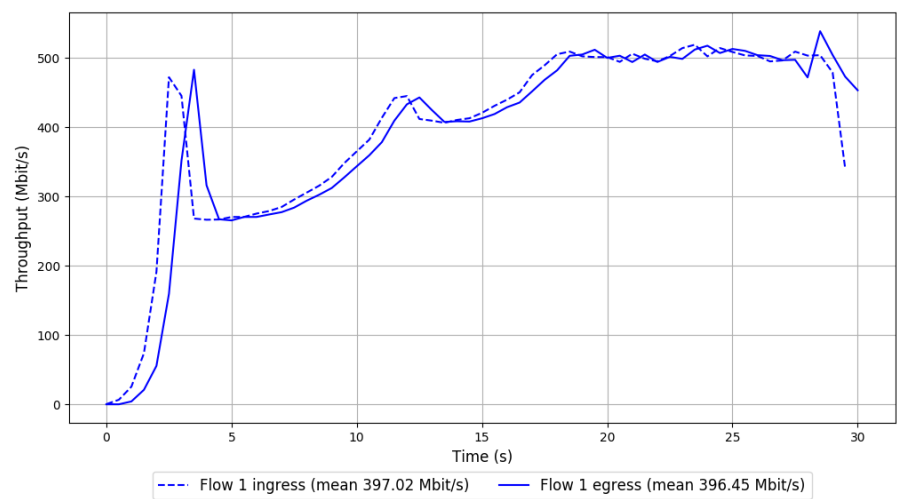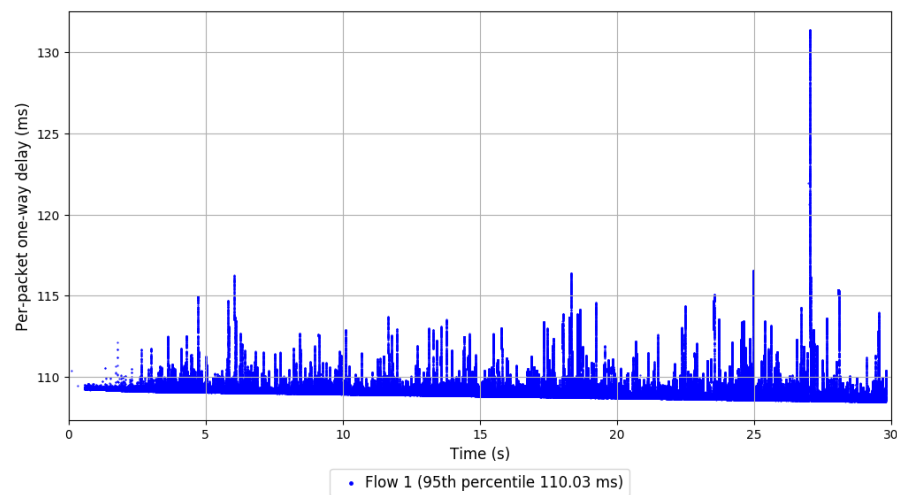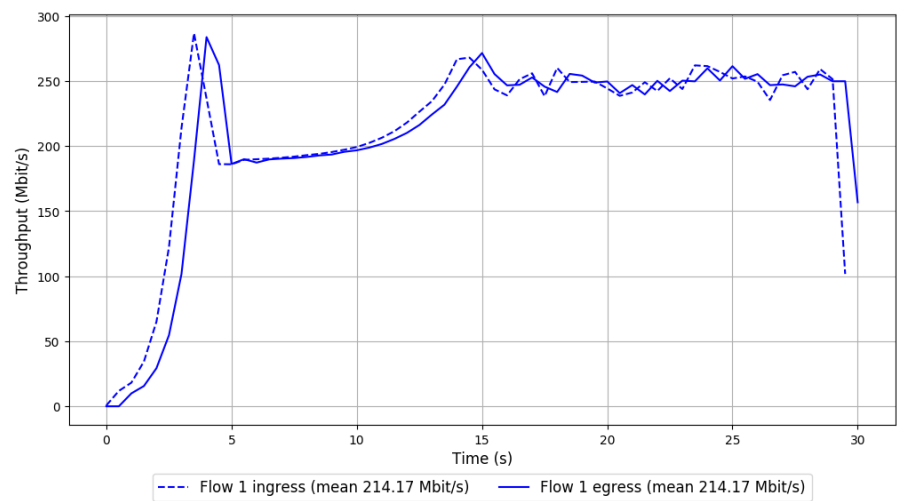
Run 5: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 397.02 Mbit/s)   Flow 1 egress (mean 396.45 Mbit/s)

Flow 1 (95th percentile 122.35 ms)

```
Run 1: Statistics of PCC-Expr

Start at: 2020-04-16 04:13:38
End at: 2020-04-16 04:14:08
Local clock offset: -0.014 ms
Remote clock offset: 10.366 ms

# Below is generated by plot.py at 2020-04-16 09:04:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.17 Mbit/s
95th percentile per-packet one-way delay: 110.025 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 214.17 Mbit/s
95th percentile per-packet one-way delay: 110.025 ms
Loss rate: 0.01%
```
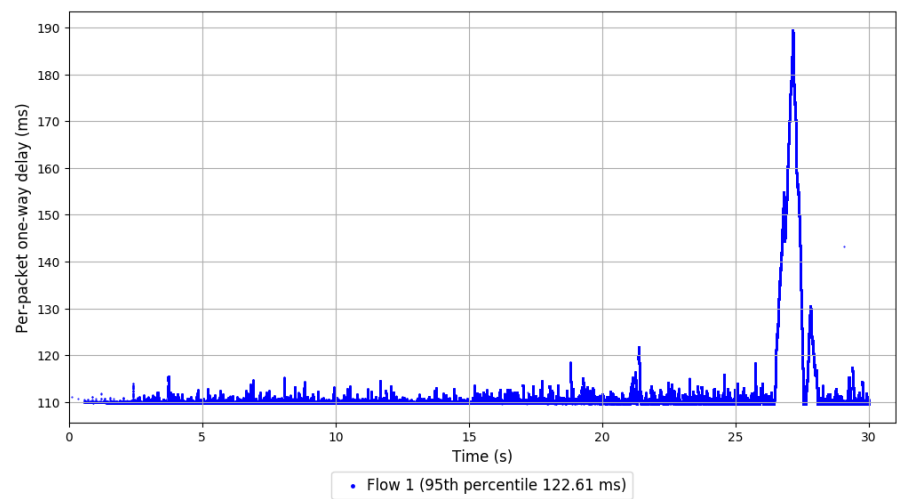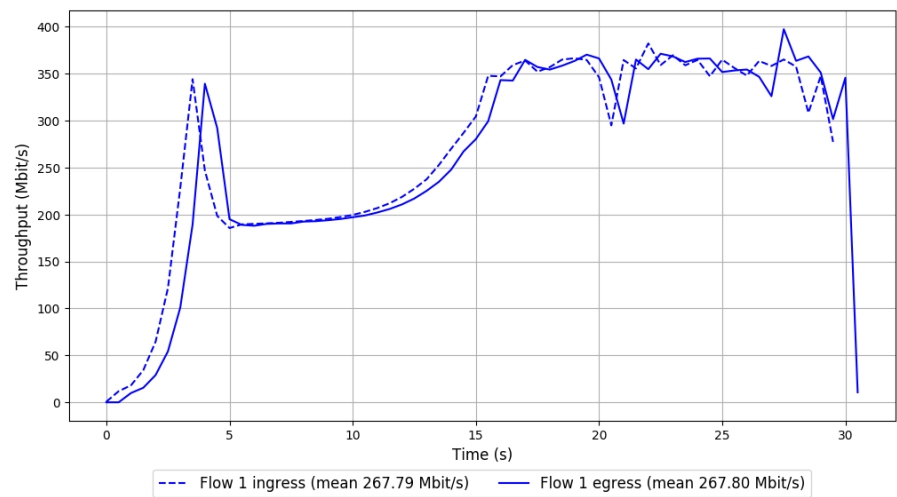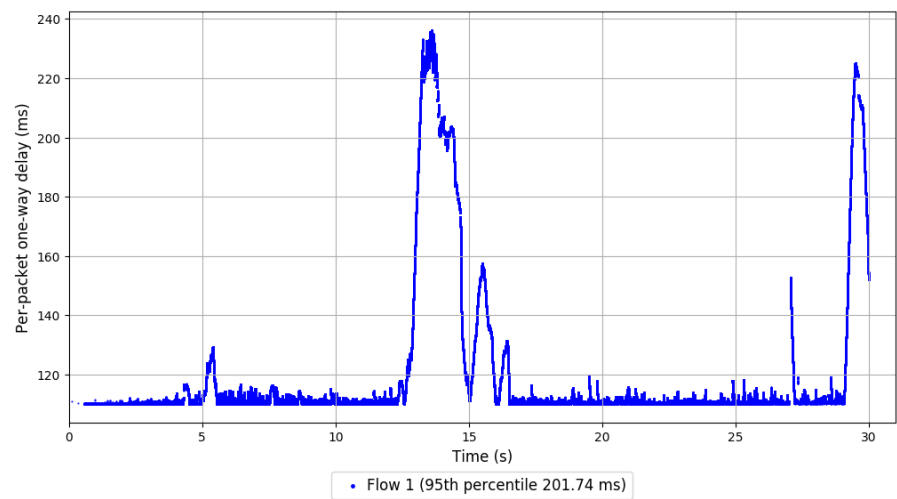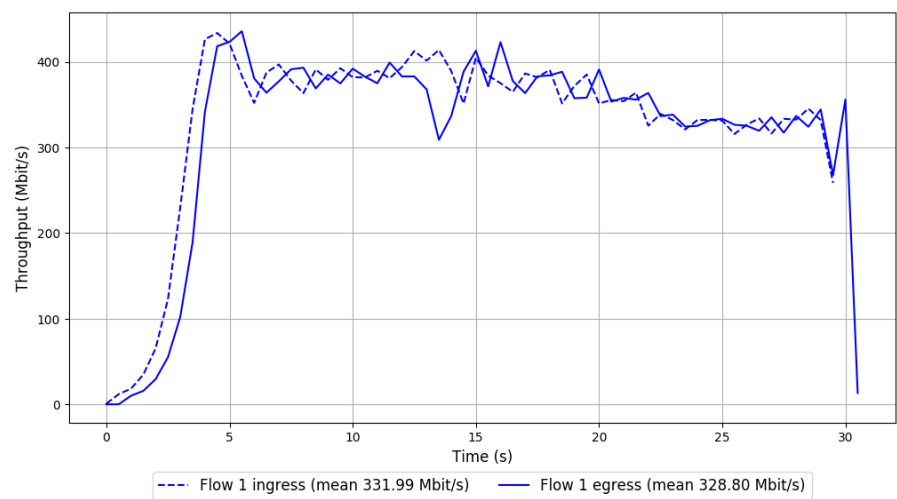
Run 1: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 214.17 Mbit/s)   Flow 1 egress (mean 214.17 Mbit/s)

Flow 1 (95th percentile 110.03 ms)

```
Run 2: Statistics of PCC-Expr

Start at: 2020-04-16 04:48:14
End at: 2020-04-16 04:48:44
Local clock offset: -0.346 ms
Remote clock offset: 21.55 ms


# Below is generated by plot.py at 2020-04-16 09:04:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.80 Mbit/s
95th percentile per-packet one-way delay: 122.614 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 267.80 Mbit/s
95th percentile per-packet one-way delay: 122.614 ms
Loss rate: 0.00%
```
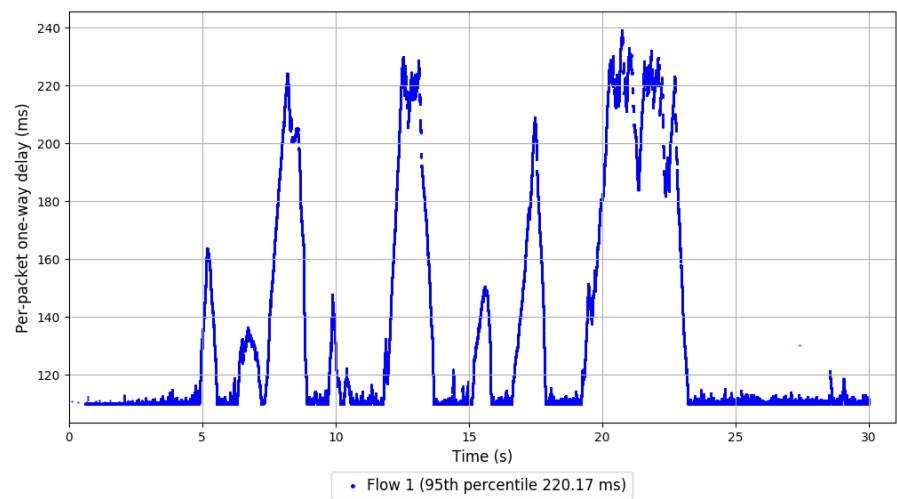
Run 2: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 267.79 Mbit/s) — — — Flow 1 egress (mean 267.80 Mbit/s)

• Flow 1 (95th percentile 122.61 ms)

```
Run 3: Statistics of PCC-Expr

Start at: 2020-04-16 05:22:31
End at: 2020-04-16 05:23:01
Local clock offset: -1.459 ms
Remote clock offset: 16.418 ms


# Below is generated by plot.py at 2020-04-16 09:07:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.80 Mbit/s
95th percentile per-packet one-way delay: 201.738 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 328.80 Mbit/s
95th percentile per-packet one-way delay: 201.738 ms
Loss rate: 0.96%
```
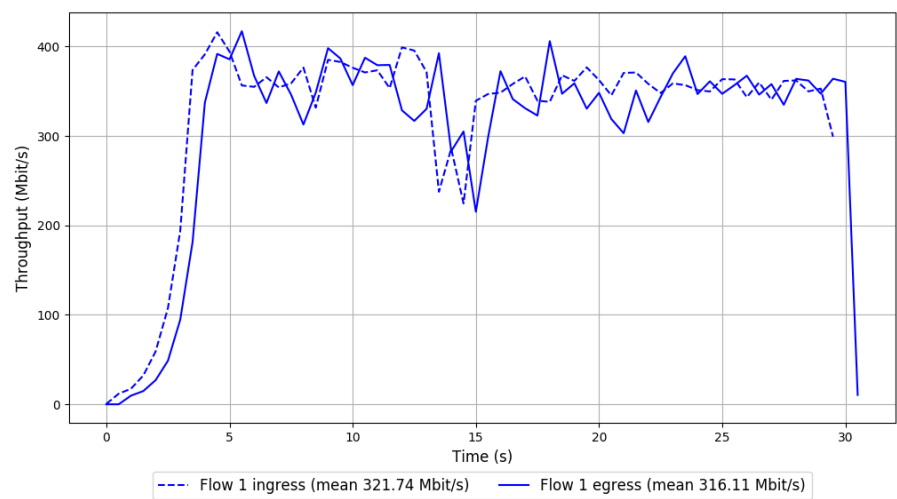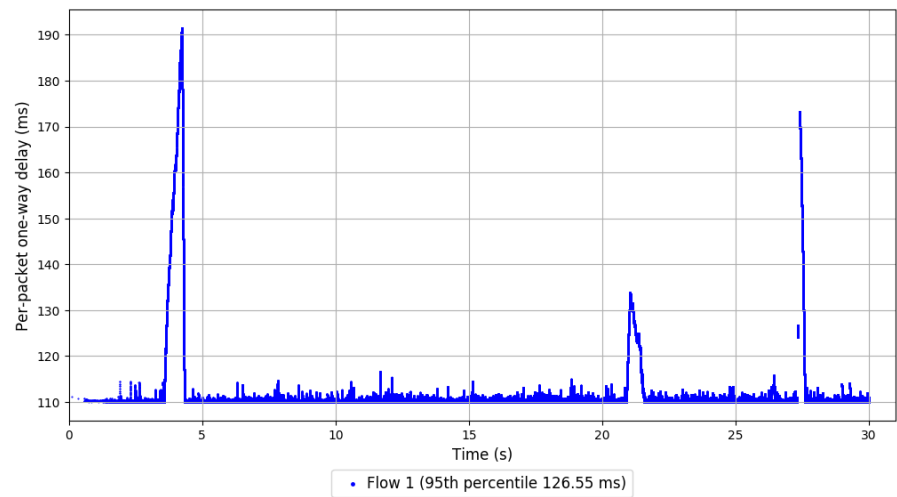
Run 3: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 331.99 Mbit/s)   Flow 1 egress (mean 328.80 Mbit/s)

Flow 1 (95th percentile 201.74 ms)

```
Run 4: Statistics of PCC-Expr

Start at: 2020-04-16 05:57:40
End at: 2020-04-16 05:58:10
Local clock offset: 0.032 ms
Remote clock offset: 8.027 ms


# Below is generated by plot.py at 2020-04-16 09:09:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 316.11 Mbit/s
95th percentile per-packet one-way delay: 220.172 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 316.11 Mbit/s
95th percentile per-packet one-way delay: 220.172 ms
Loss rate: 1.75%
```
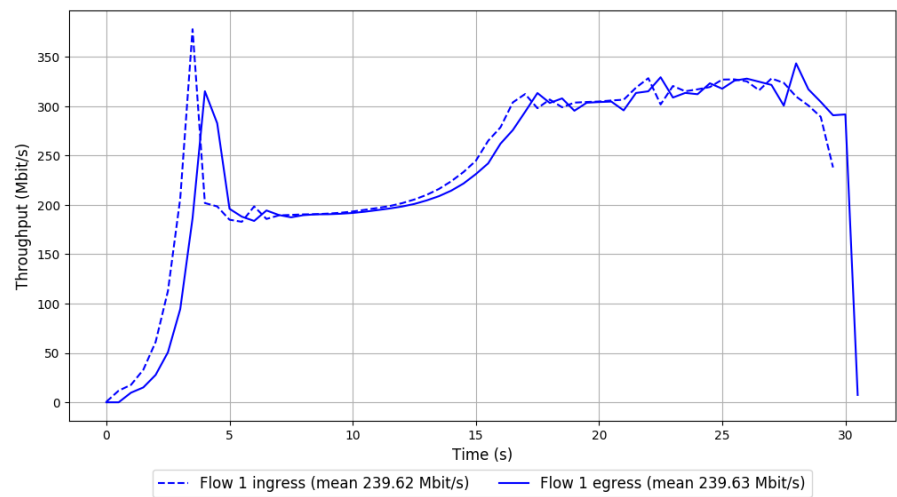
Run 4: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 321.74 Mbit/s)   Flow 1 egress (mean 316.11 Mbit/s)

Flow 1 (95th percentile 220.17 ms)

```
Run 5: Statistics of PCC-Expr

Start at: 2020-04-16 06:32:32
End at: 2020-04-16 06:33:02
Local clock offset: -0.159 ms
Remote clock offset: 5.787 ms


# Below is generated by plot.py at 2020-04-16 09:09:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.63 Mbit/s
95th percentile per-packet one-way delay: 126.548 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 239.63 Mbit/s
95th percentile per-packet one-way delay: 126.548 ms
Loss rate: 0.01%
```

Run 5: Report of PCC-Expr — Data Link

Run 1: Statistics of QUIC Cubic

Start at: 2020-04-16 04:24:58
End at: 2020-04-16 04:25:28
Local clock offset: 0.745 ms
Remote clock offset: 14.596 ms

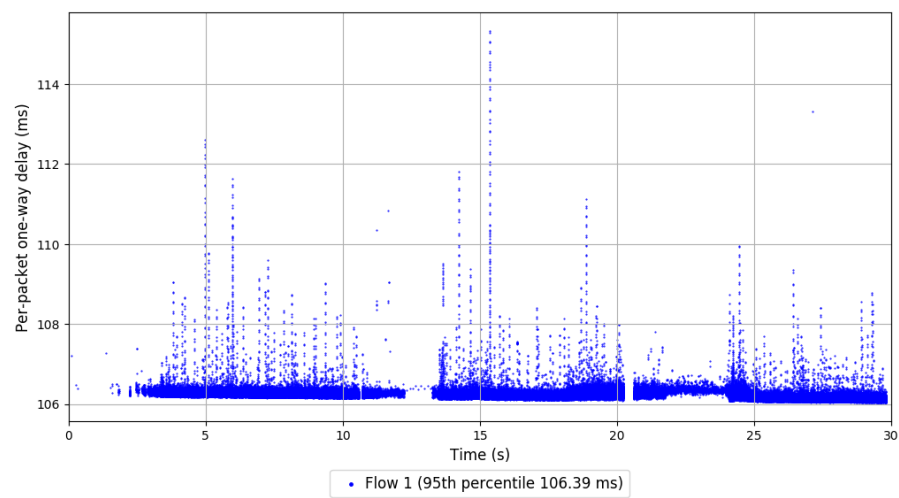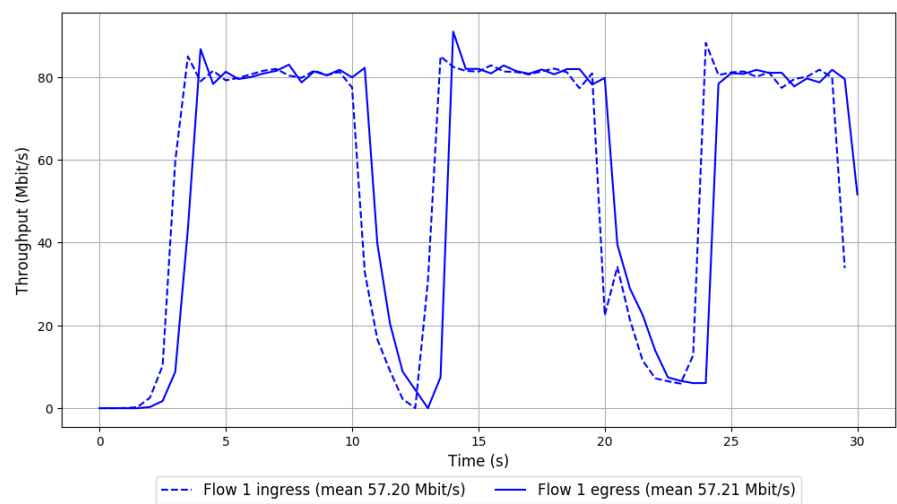# Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2020-04-16 04:59:37
End at: 2020-04-16 05:00:07
Local clock offset: -0.558 ms
Remote clock offset: 30.656 ms


# Below is generated by plot.py at 2020-04-16 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.40 Mbit/s
95th percentile per-packet one-way delay: 109.828 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.40 Mbit/s
95th percentile per-packet one-way delay: 109.828 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2020-04-16 05:34:00
End at: 2020-04-16 05:34:30
Local clock offset: -0.188 ms
Remote clock offset: 16.525 ms


# Below is generated by plot.py at 2020-04-16 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.21 Mbit/s
95th percentile per-packet one-way delay: 106.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.21 Mbit/s
95th percentile per-packet one-way delay: 106.388 ms
Loss rate: 0.00%
```
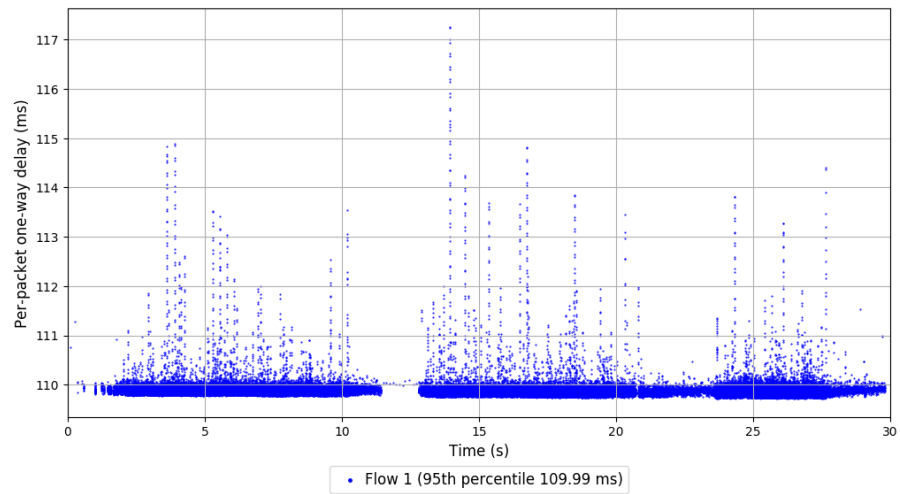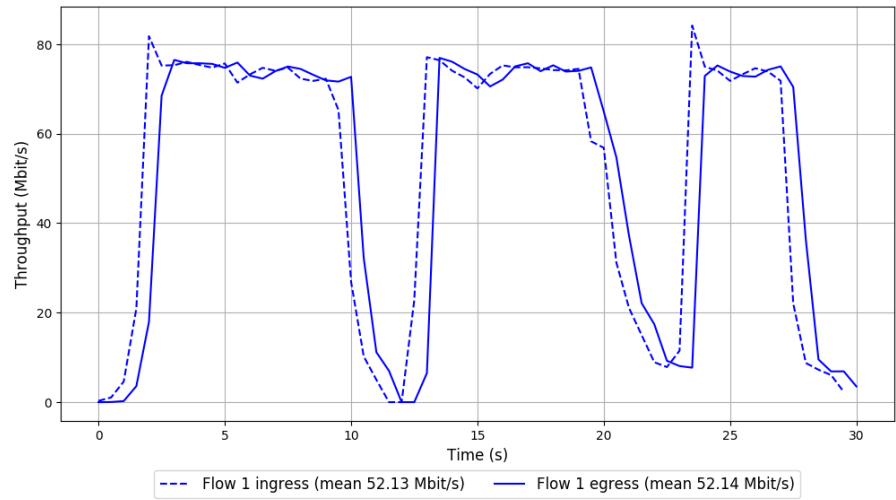
Run 3: Report of QUIC Cubic — Data Link

```
Run 4: Statistics of QUIC Cubic

Start at: 2020-04-16 06:09:19
End at: 2020-04-16 06:09:49
Local clock offset: -0.059 ms
Remote clock offset: 8.27 ms


# Below is generated by plot.py at 2020-04-16 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.14 Mbit/s
95th percentile per-packet one-way delay: 109.988 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.14 Mbit/s
95th percentile per-packet one-way delay: 109.988 ms
Loss rate: 0.00%
```
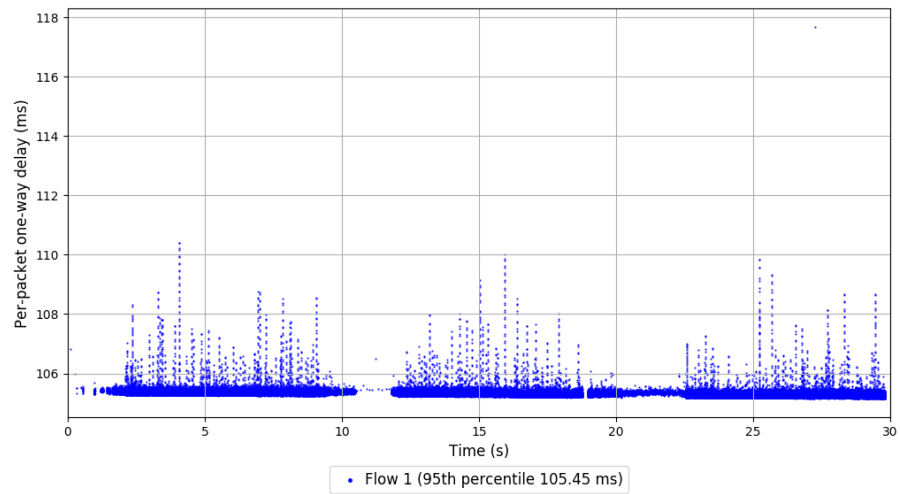
Run 4: Report of QUIC Cubic — Data Link

```
Run 5: Statistics of QUIC Cubic

Start at: 2020-04-16 06:43:33
End at: 2020-04-16 06:44:03
Local clock offset: 1.214 ms
Remote clock offset: 8.073 ms


# Below is generated by plot.py at 2020-04-16 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.10 Mbit/s
95th percentile per-packet one-way delay: 105.454 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.10 Mbit/s
95th percentile per-packet one-way delay: 105.454 ms
Loss rate: 0.00%
```
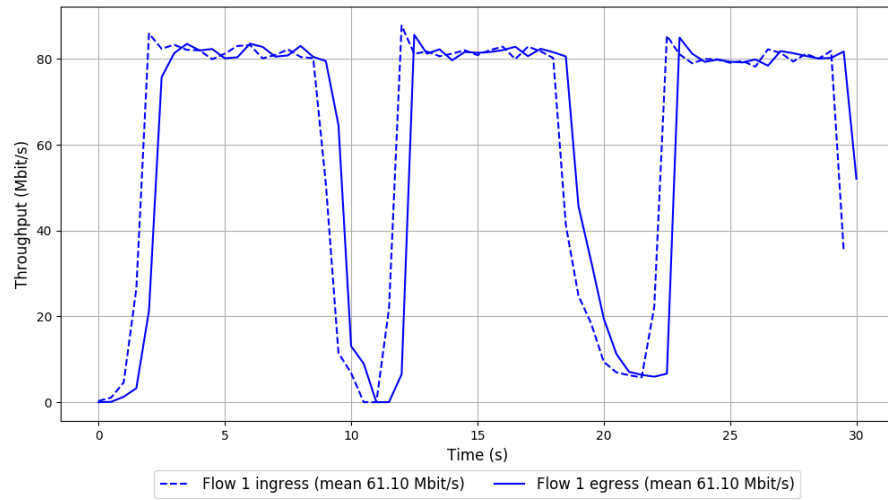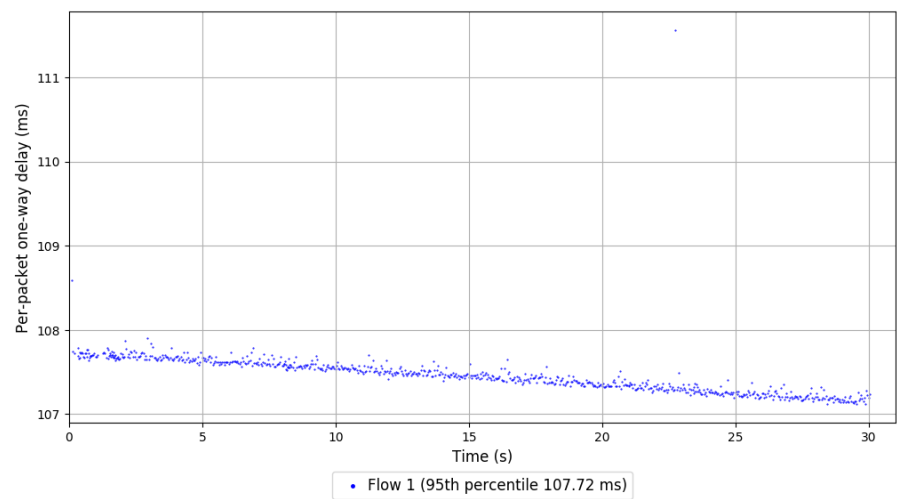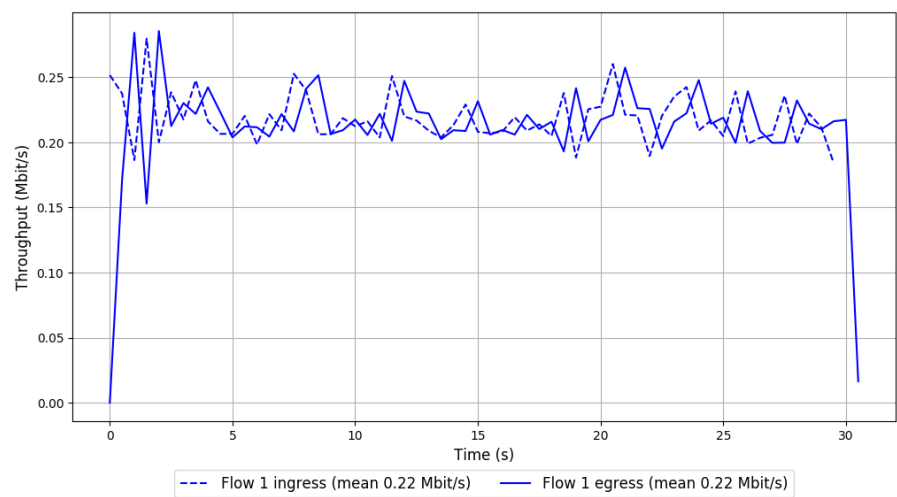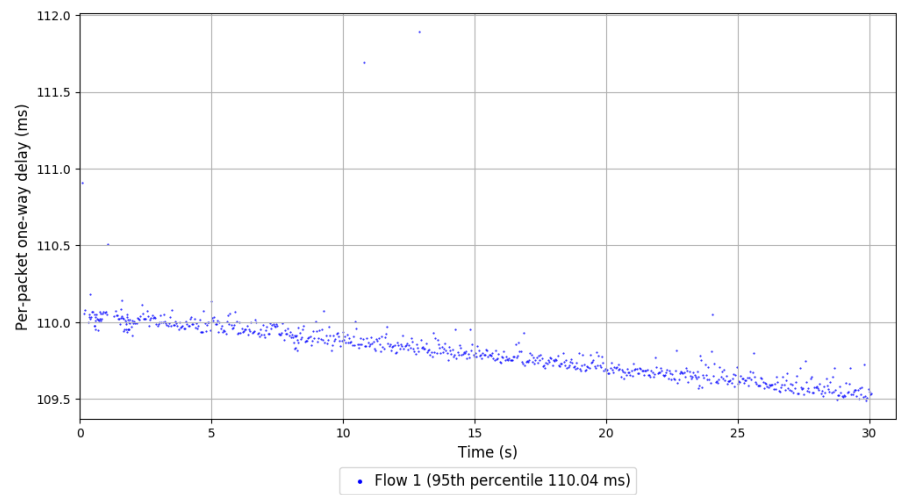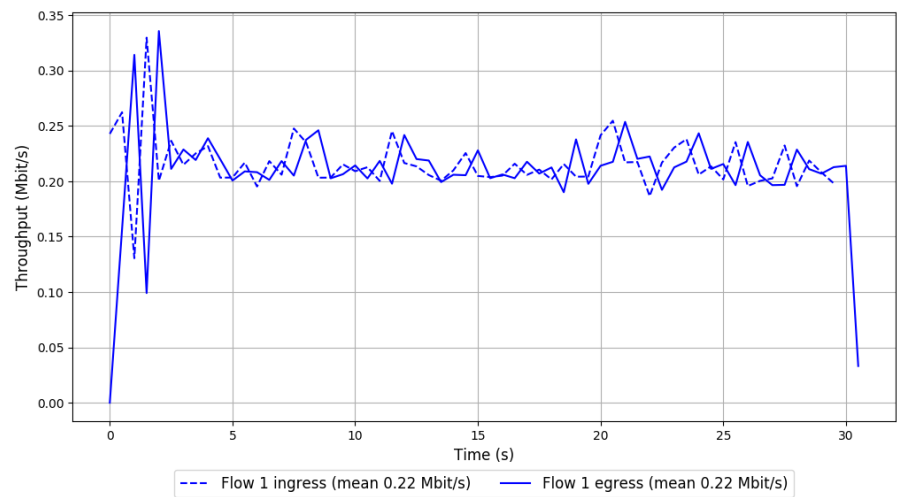
Run 5: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2020-04-16 04:27:46
End at: 2020-04-16 04:28:16
Local clock offset: -0.918 ms
Remote clock offset: 17.345 ms


# Below is generated by plot.py at 2020-04-16 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.721 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.721 ms
Loss rate: 0.00%
```

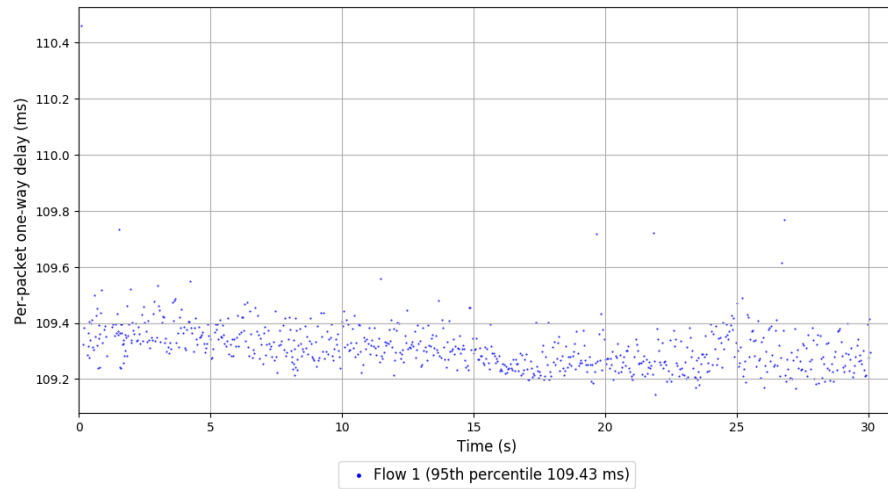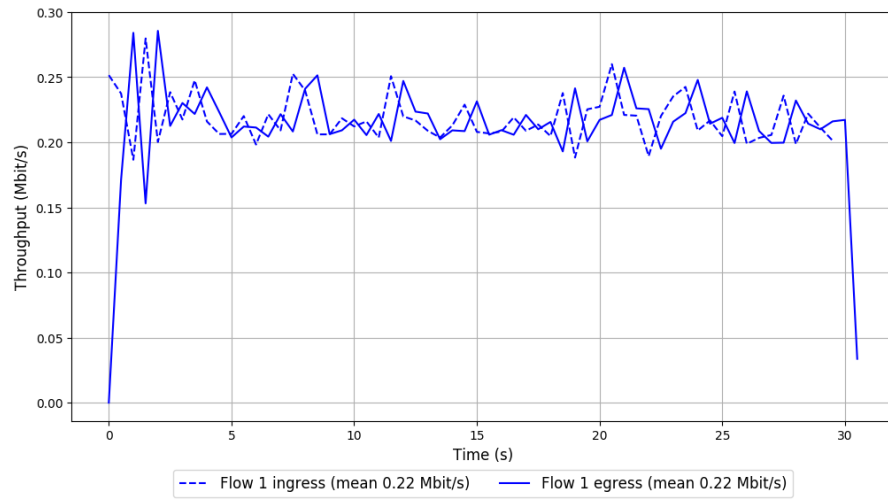# Run 1: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 107.72 ms)

```
Run 2: Statistics of SCReAM

Start at: 2020-04-16 05:02:26
End at: 2020-04-16 05:02:56
Local clock offset: -0.301 ms
Remote clock offset: 33.816 ms

# Below is generated by plot.py at 2020-04-16 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.039 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.039 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2020-04-16 05:36:54
End at: 2020-04-16 05:37:24
Local clock offset: -0.301 ms
Remote clock offset: 18.067 ms


# Below is generated by plot.py at 2020-04-16 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.432 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.432 ms
Loss rate: 0.00%
```
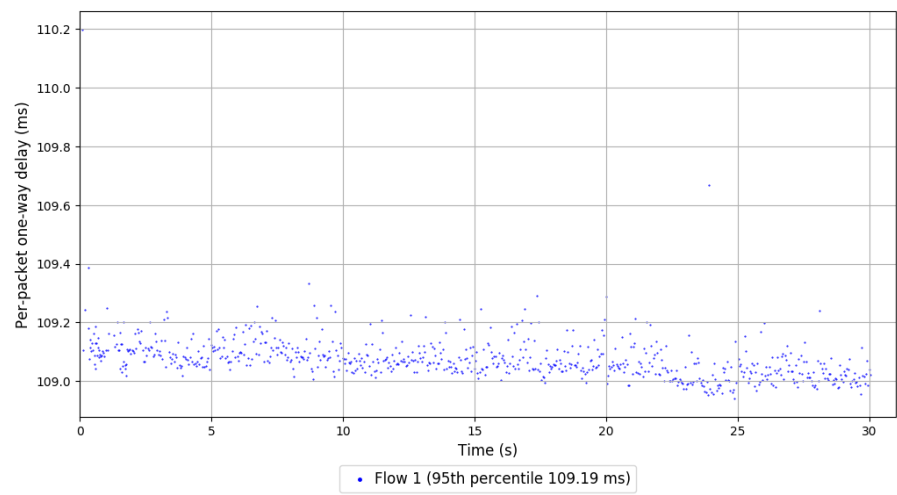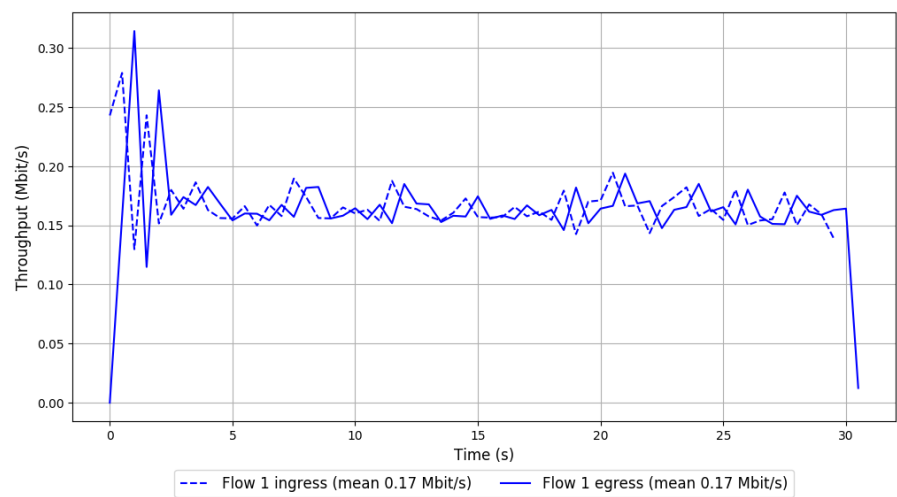
Run 3: Report of SCReAM — Data Link

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

• Flow 1 (95th percentile 109.43 ms)

```
Run 4: Statistics of SCReAM

Start at: 2020-04-16 06:12:09
End at: 2020-04-16 06:12:39
Local clock offset: 0.099 ms
Remote clock offset: 8.807 ms


# Below is generated by plot.py at 2020-04-16 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 109.194 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 109.194 ms
Loss rate: 0.00%
```
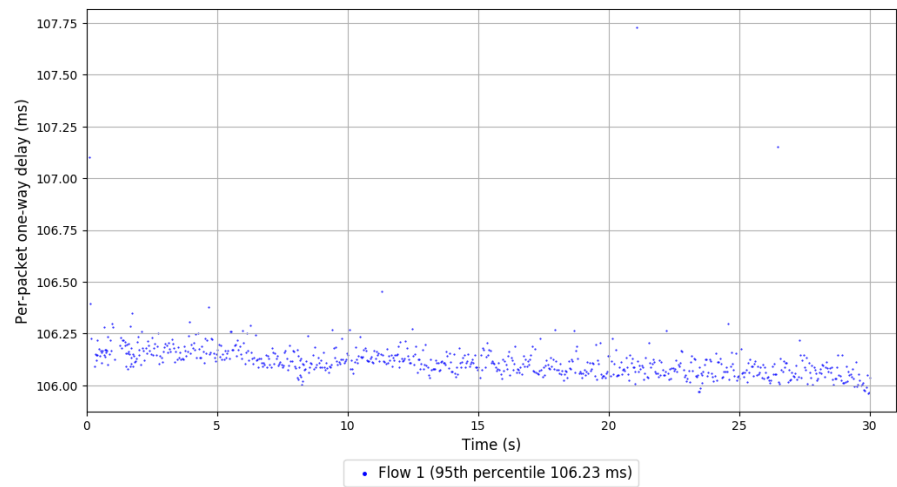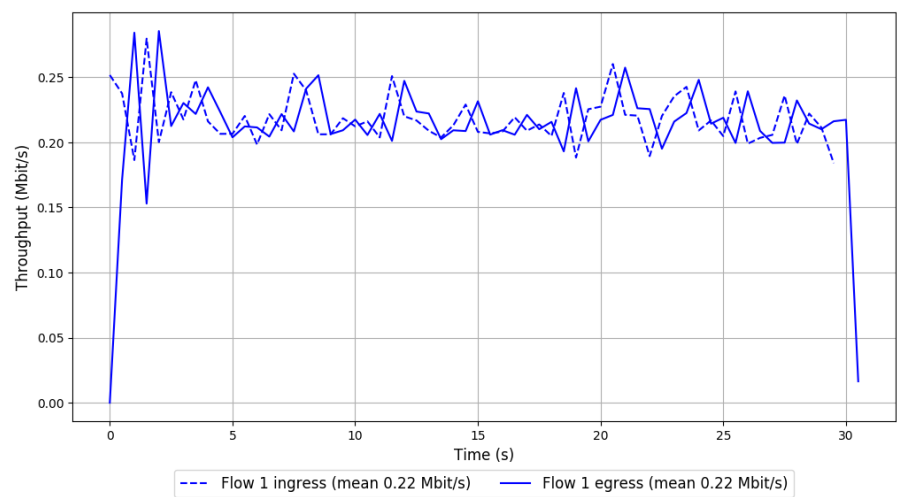
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2020-04-16 06:46:23
End at: 2020-04-16 06:46:53
Local clock offset: 0.587 ms
Remote clock offset: 8.862 ms


# Below is generated by plot.py at 2020-04-16 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.226 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.226 ms
Loss rate: 0.00%
```
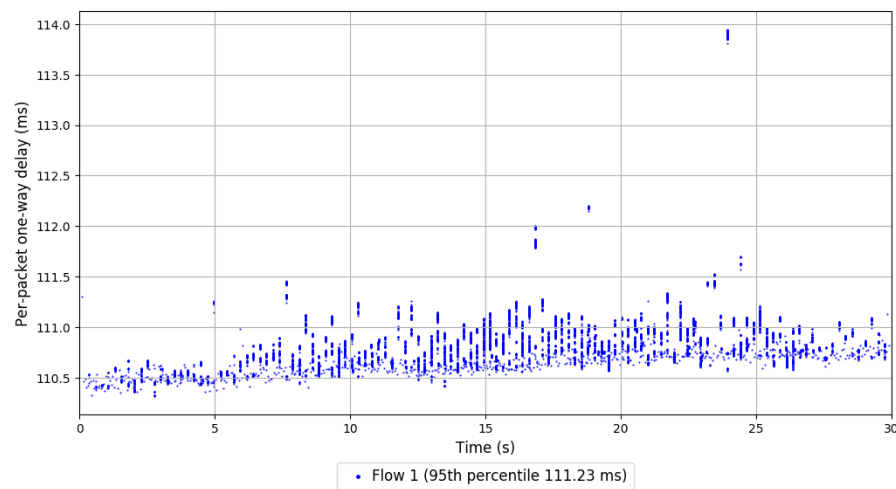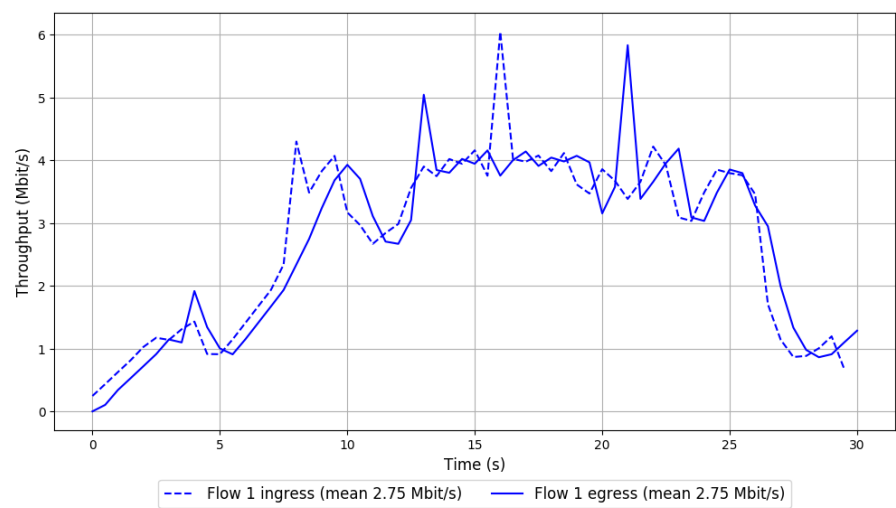
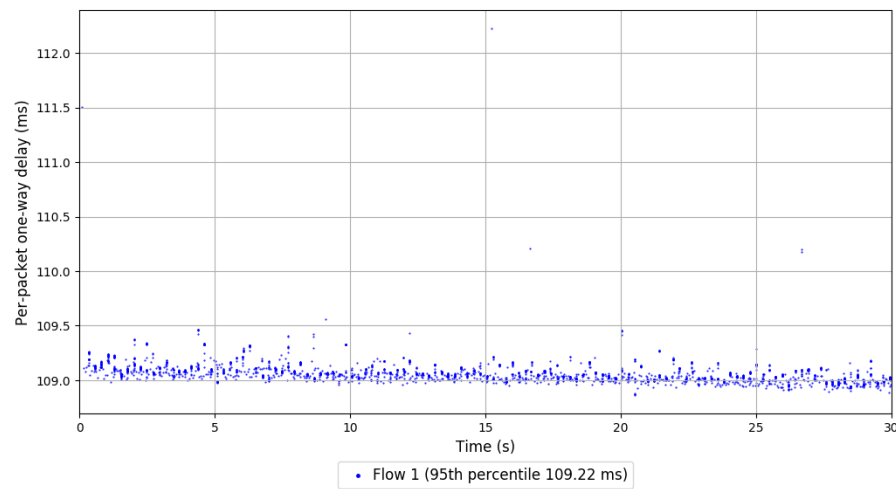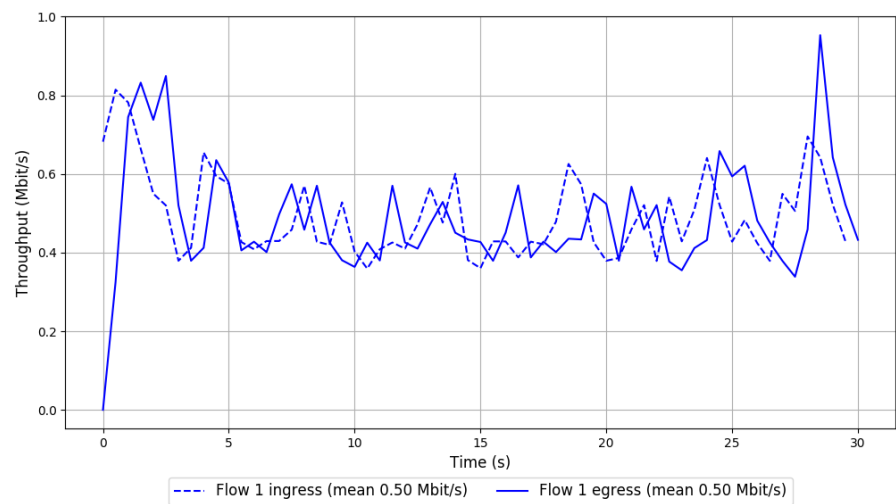Run 5: Report of SCReAM — Data Link

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```
Run 1: Statistics of Sprout

Start at: 2020-04-16 04:10:55
End at: 2020-04-16 04:11:25
Local clock offset: -0.187 ms
Remote clock offset: 9.736 ms


# Below is generated by plot.py at 2020-04-16 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 111.226 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 111.226 ms
Loss rate: 0.00%
```

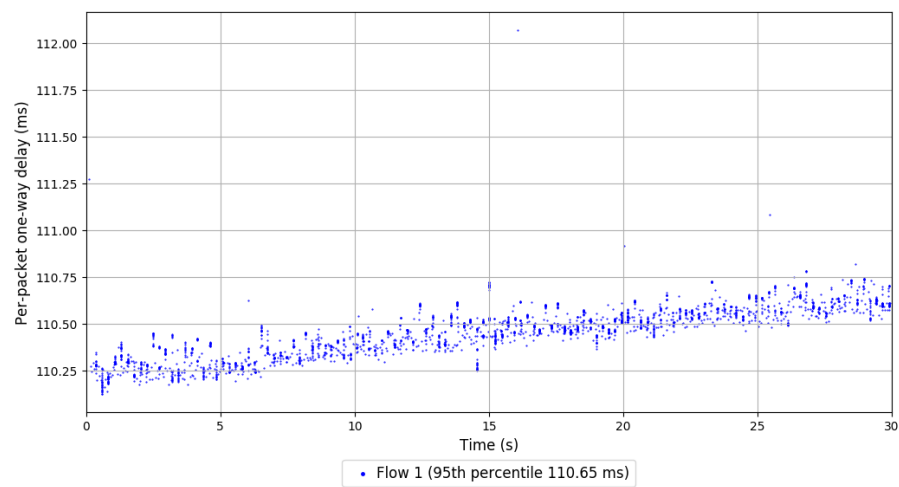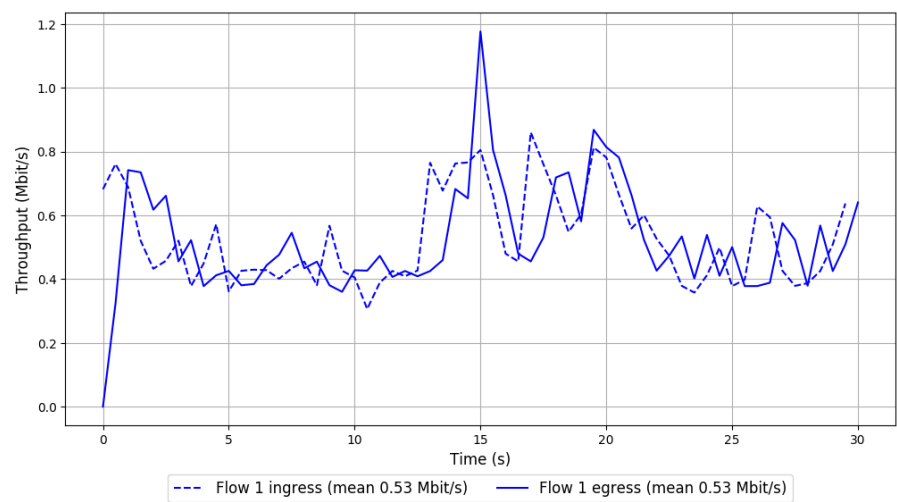Run 1: Report of Sprout — Data Link

Flow 1 ingress (mean 2.75 Mbit/s) ---- Flow 1 egress (mean 2.75 Mbit/s)

Flow 1 (95th percentile 111.23 ms)

```
Run 2: Statistics of Sprout

Start at: 2020-04-16 04:45:25
End at: 2020-04-16 04:45:55
Local clock offset: 0.332 ms
Remote clock offset: 20.227 ms


# Below is generated by plot.py at 2020-04-16 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 109.224 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 109.224 ms
Loss rate: 0.00%
```

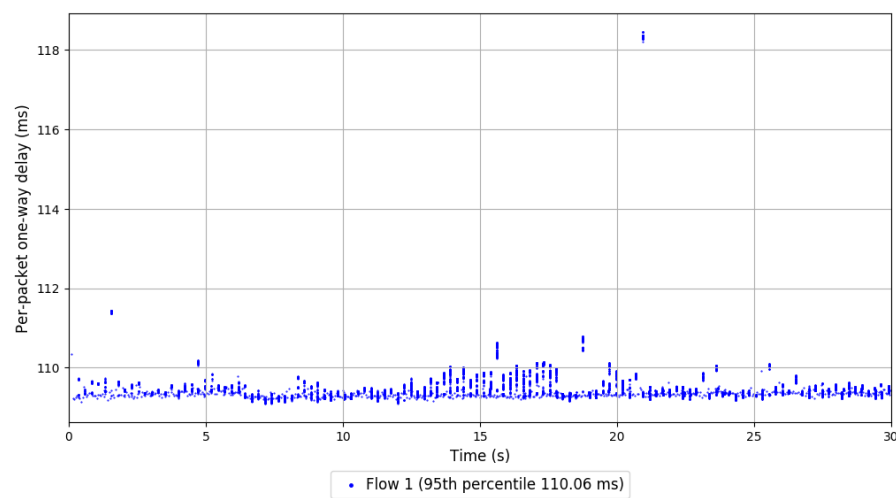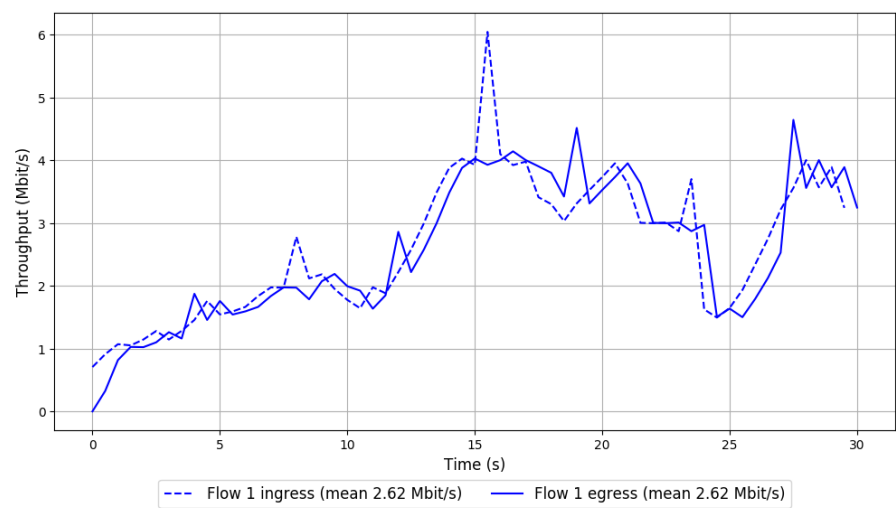Run 2: Report of Sprout — Data Link

Flow 1 ingress (mean 0.50 Mbit/s) --- Flow 1 egress (mean 0.50 Mbit/s)

Flow 1 (95th percentile 109.22 ms)

```
Run 3: Statistics of Sprout

Start at: 2020-04-16 05:19:46
End at: 2020-04-16 05:20:16
Local clock offset: -0.342 ms
Remote clock offset: 18.447 ms


# Below is generated by plot.py at 2020-04-16 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 110.654 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 110.654 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2020-04-16 05:54:55
End at: 2020-04-16 05:55:25
Local clock offset: -0.108 ms
Remote clock offset: 8.77 ms


# Below is generated by plot.py at 2020-04-16 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 110.056 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 110.056 ms
Loss rate: 0.00%
```
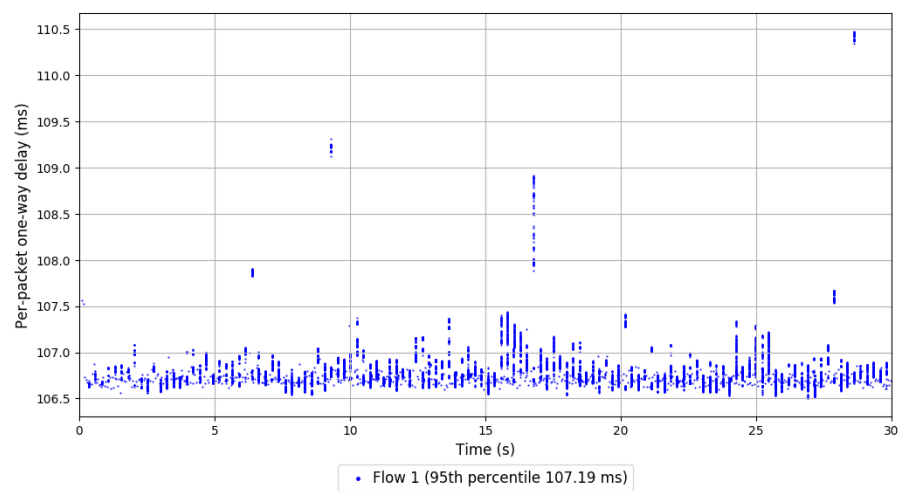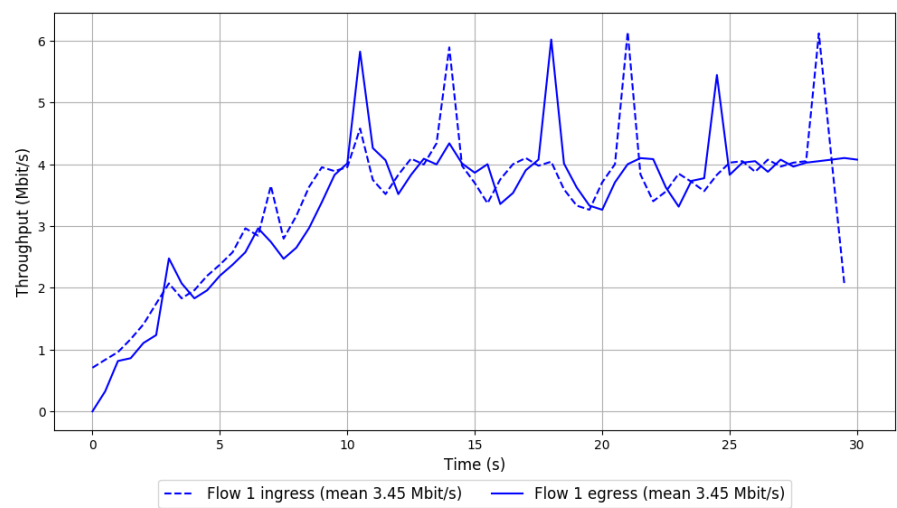
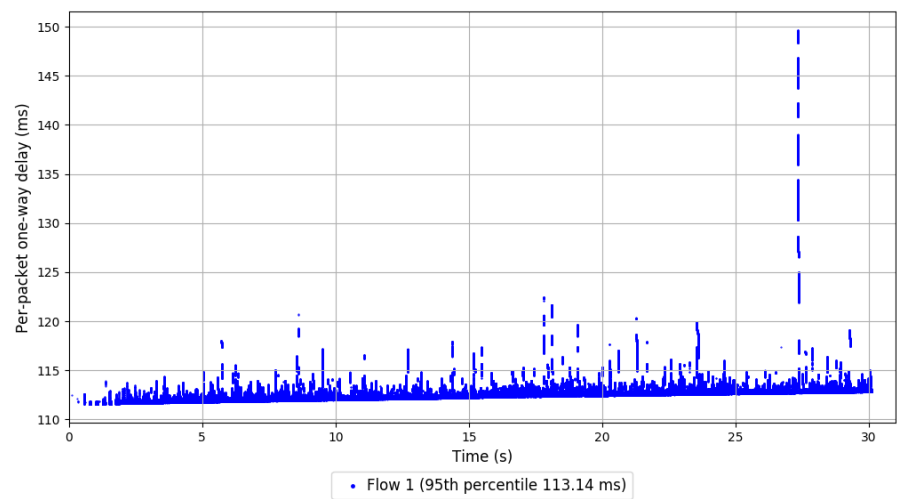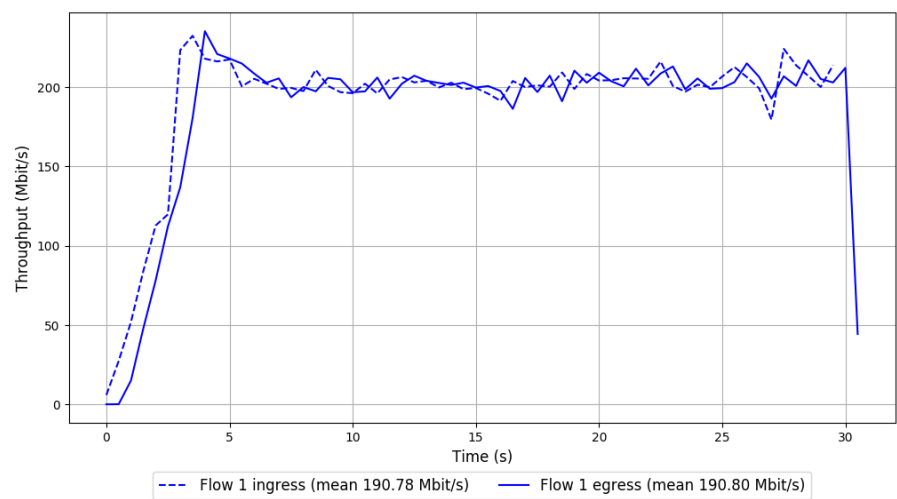Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2020-04-16 06:29:43
End at: 2020-04-16 06:30:13
Local clock offset: 0.068 ms
Remote clock offset: 5.553 ms


# Below is generated by plot.py at 2020-04-16 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 107.189 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 107.189 ms
Loss rate: 0.00%
```
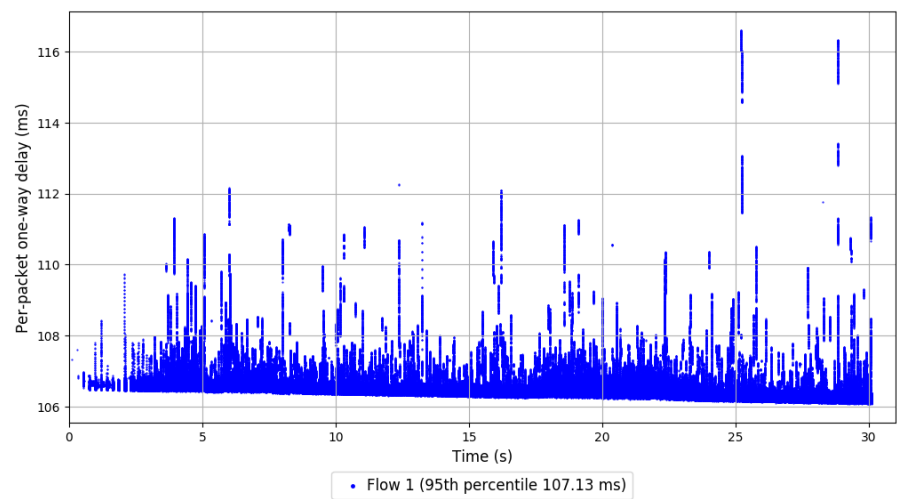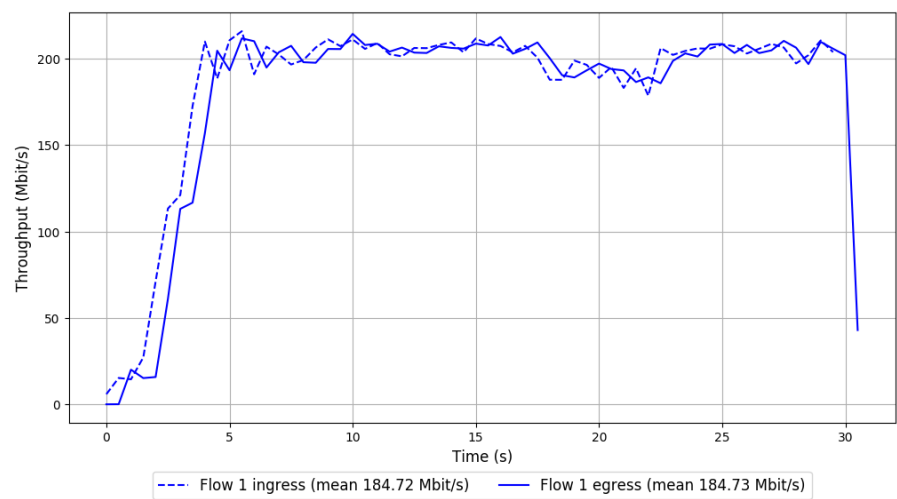
Run 5: Report of Sprout — Data Link

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

Start at: 2020-04-16 04:18:06
End at: 2020-04-16 04:18:37
Local clock offset: 0.061 ms
Remote clock offset: 18.17 ms


# Below is generated by plot.py at 2020-04-16 09:13:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.80 Mbit/s
95th percentile per-packet one-way delay: 113.138 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 190.80 Mbit/s
95th percentile per-packet one-way delay: 113.138 ms
Loss rate: 0.01%
```
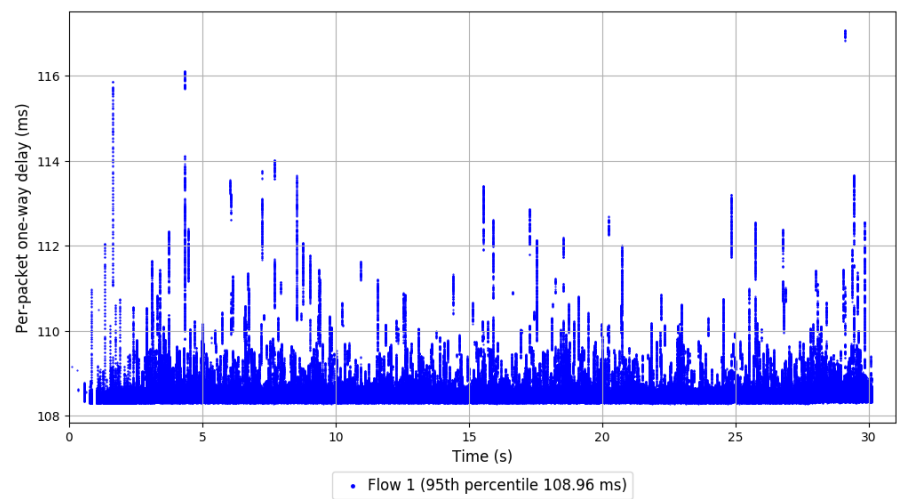
Run 1: Report of TaoVA-100x — Data Link

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

Start at: 2020-04-16 04:52:48
End at: 2020-04-16 04:53:18
Local clock offset: -0.141 ms
Remote clock offset: 24.644 ms


# Below is generated by plot.py at 2020-04-16 09:13:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.73 Mbit/s
95th percentile per-packet one-way delay: 107.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.73 Mbit/s
95th percentile per-packet one-way delay: 107.128 ms
Loss rate: 0.00%
```

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

Flow 1 ingress (mean 184.72 Mbit/s)   Flow 1 egress (mean 184.73 Mbit/s)
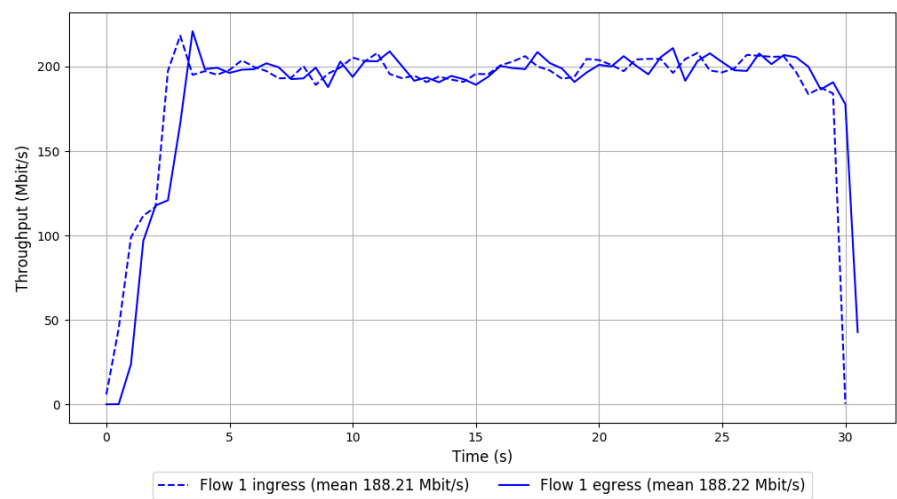

Flow 1 (95th percentile 107.13 ms)

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

Start at: 2020-04-16 05:27:11
End at: 2020-04-16 05:27:41
Local clock offset: -0.1 ms
Remote clock offset: 15.321 ms


# Below is generated by plot.py at 2020-04-16 09:13:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.22 Mbit/s
95th percentile per-packet one-way delay: 108.963 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.22 Mbit/s
95th percentile per-packet one-way delay: 108.963 ms
Loss rate: 0.00%
```

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

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

Start at: 2020-04-16 06:02:22
End at: 2020-04-16 06:02:52
Local clock offset: -0.082 ms
Remote clock offset: 7.593 ms


# Below is generated by plot.py at 2020-04-16 09:13:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.20 Mbit/s
95th percentile per-packet one-way delay: 107.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 191.20 Mbit/s
95th percentile per-packet one-way delay: 107.430 ms
Loss rate: 0.00%
```
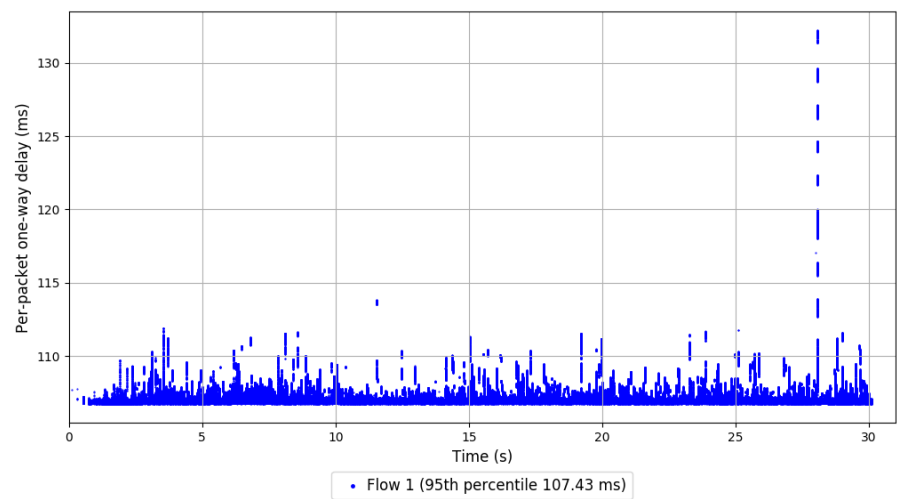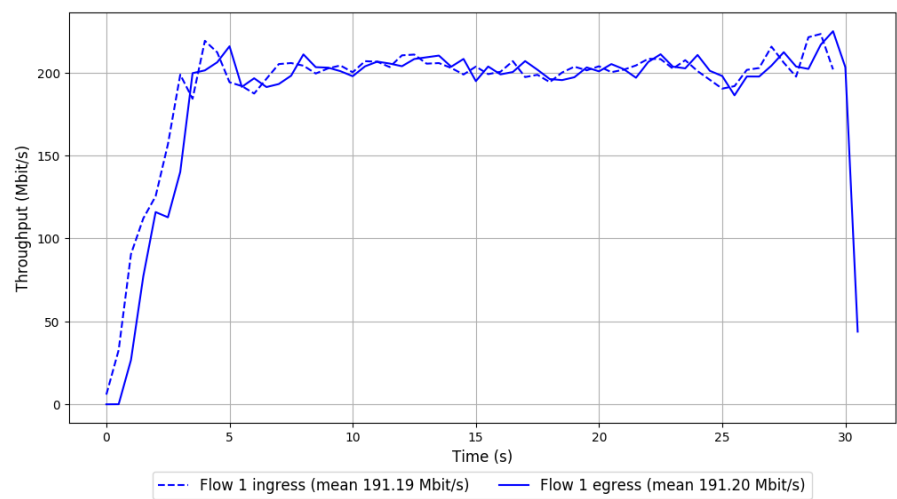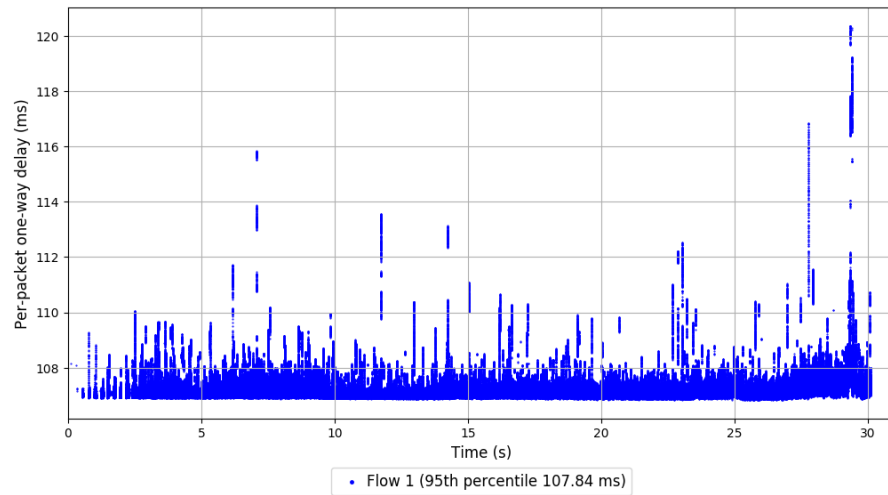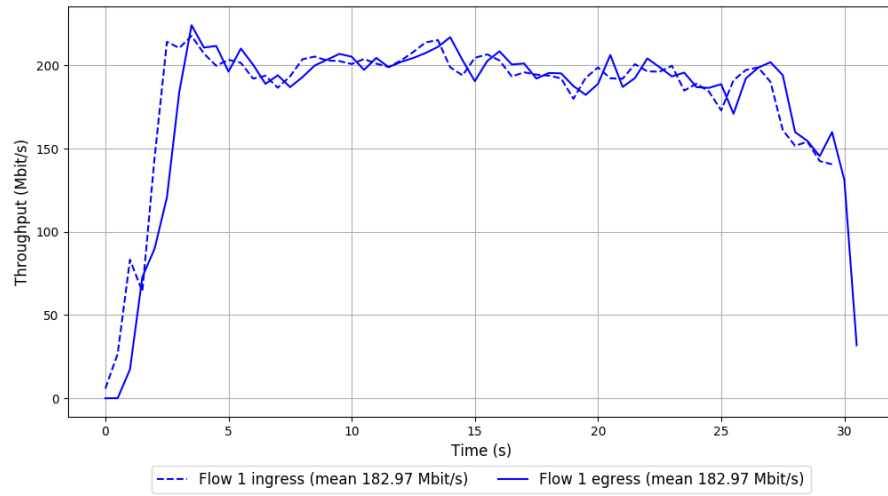
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 191.19 Mbit/s)   Flow 1 egress (mean 191.20 Mbit/s)

Flow 1 (95th percentile 107.43 ms)

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

Start at: 2020-04-16 06:37:05
End at: 2020-04-16 06:37:35
Local clock offset: -0.042 ms
Remote clock offset: 6.539 ms

# Below is generated by plot.py at 2020-04-16 09:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.97 Mbit/s
95th percentile per-packet one-way delay: 107.845 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.97 Mbit/s
95th percentile per-packet one-way delay: 107.845 ms
Loss rate: 0.00%
```

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

```
Run 1: Statistics of TCP Vegas

Start at: 2020-04-16 04:08:09
End at: 2020-04-16 04:08:39
Local clock offset: -0.634 ms
Remote clock offset: 8.397 ms


# Below is generated by plot.py at 2020-04-16 09:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.66 Mbit/s
95th percentile per-packet one-way delay: 106.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.66 Mbit/s
95th percentile per-packet one-way delay: 106.640 ms
Loss rate: 0.00%
```
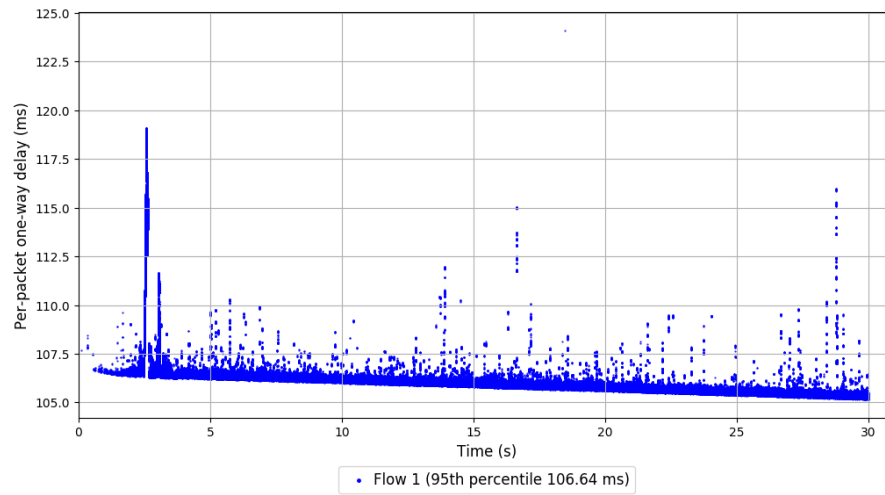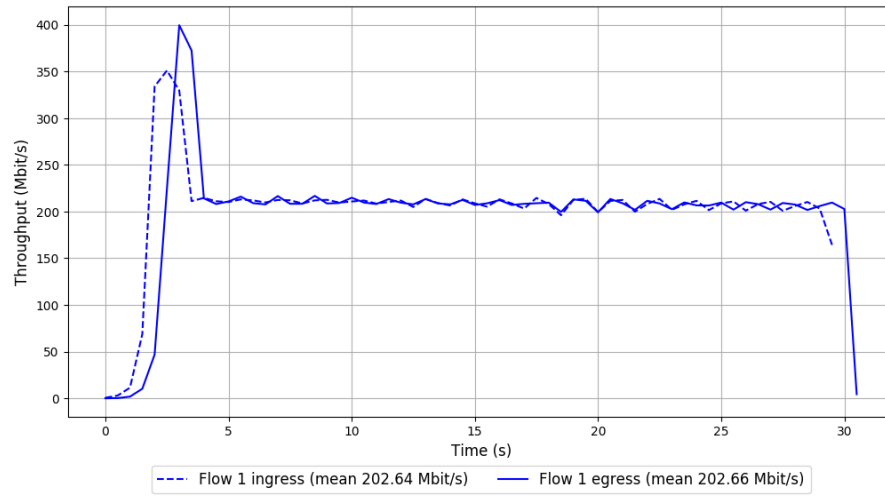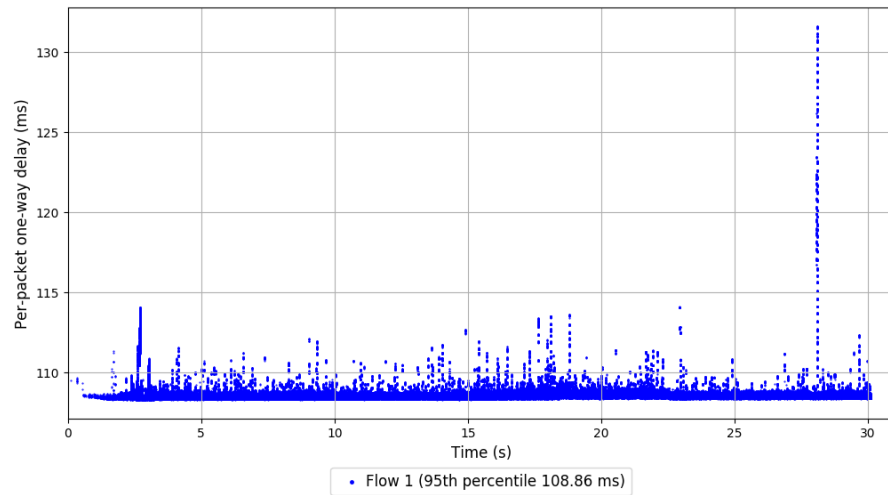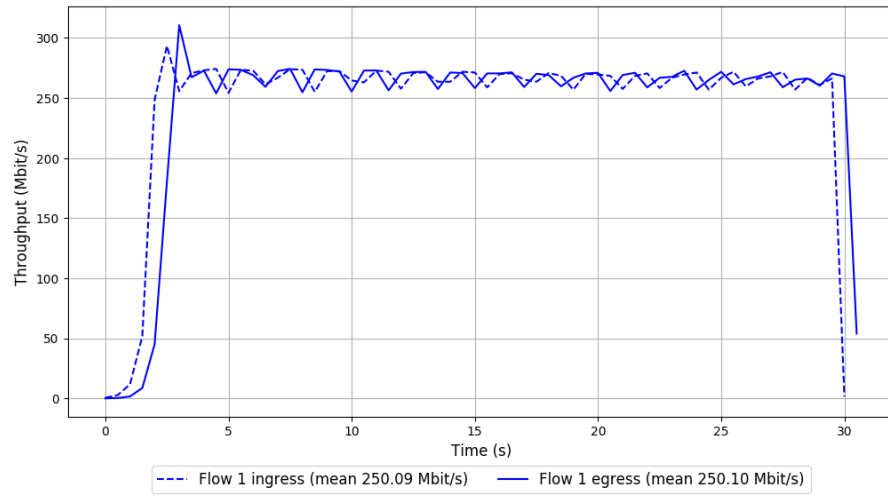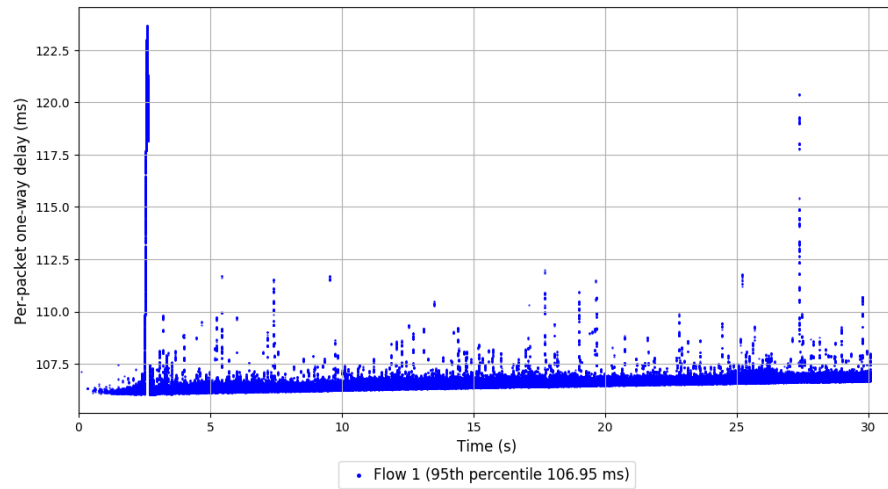
Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2020-04-16 04:42:31
End at: 2020-04-16 04:43:01
Local clock offset: 0.995 ms
Remote clock offset: 20.204 ms


# Below is generated by plot.py at 2020-04-16 09:15:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.10 Mbit/s
95th percentile per-packet one-way delay: 108.860 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 250.10 Mbit/s
95th percentile per-packet one-way delay: 108.860 ms
Loss rate: 0.00%
```
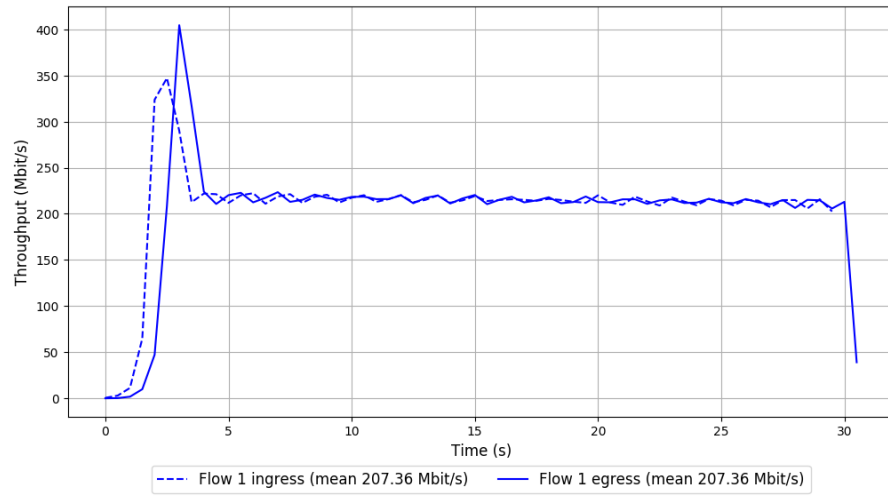
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2020-04-16 05:16:50
End at: 2020-04-16 05:17:20
Local clock offset: 0.076 ms
Remote clock offset: 22.022 ms


# Below is generated by plot.py at 2020-04-16 09:16:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.36 Mbit/s
95th percentile per-packet one-way delay: 106.955 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 207.36 Mbit/s
95th percentile per-packet one-way delay: 106.955 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2020-04-16 05:52:00
End at: 2020-04-16 05:52:30
Local clock offset: 0.258 ms
Remote clock offset: 10.32 ms


# Below is generated by plot.py at 2020-04-16 09:18:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.03 Mbit/s
95th percentile per-packet one-way delay: 112.616 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 193.03 Mbit/s
95th percentile per-packet one-way delay: 112.616 ms
Loss rate: 0.00%
```
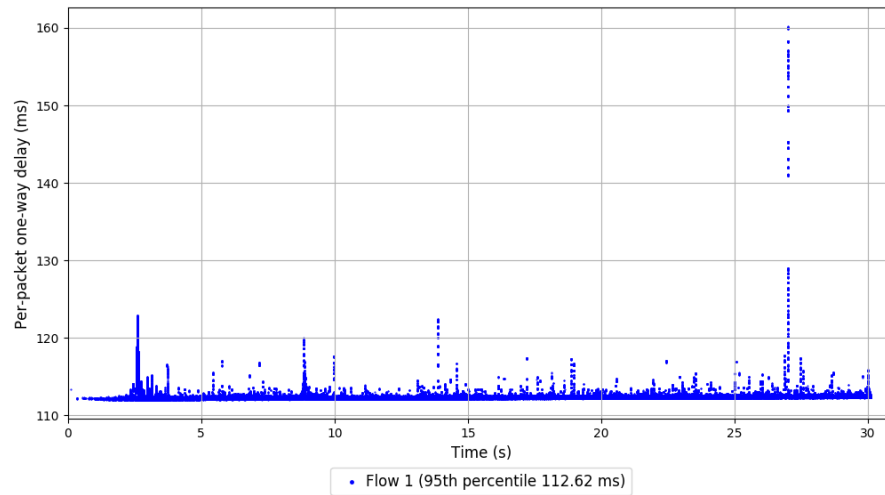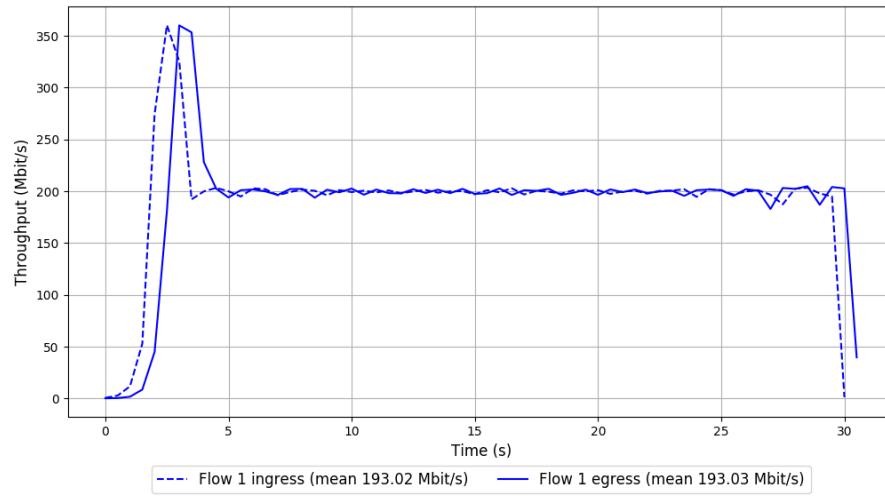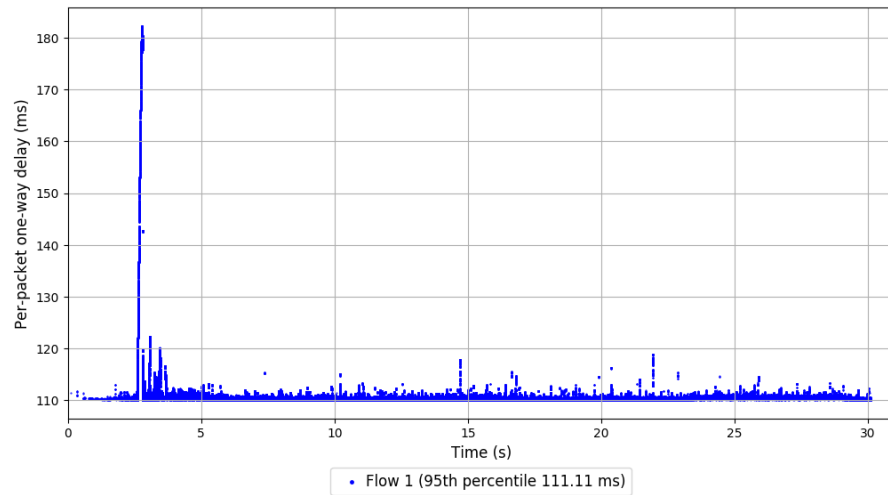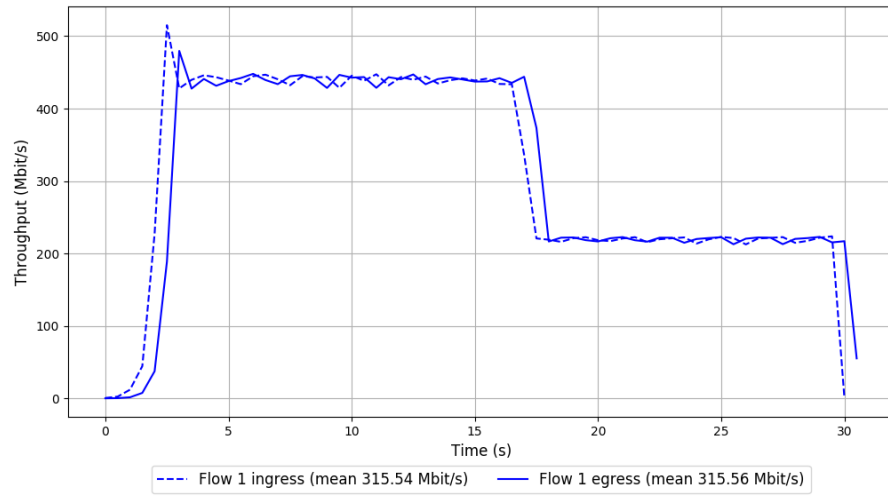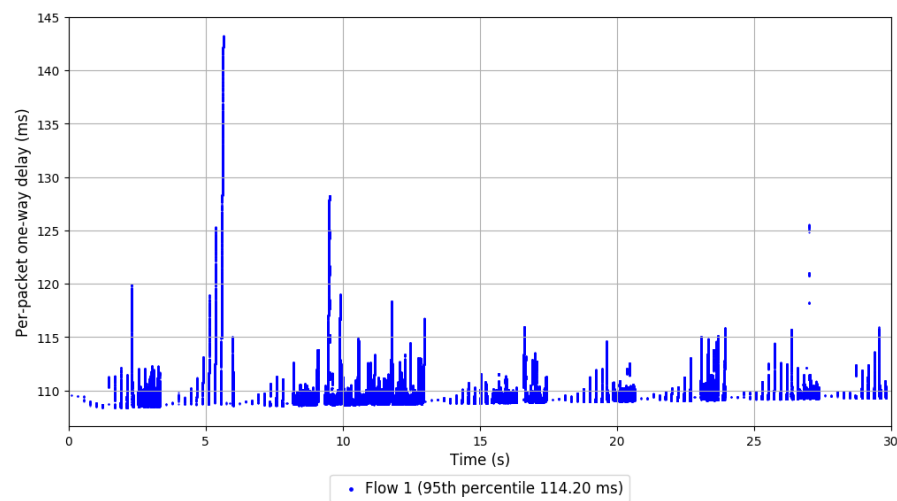
Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 193.02 Mbit/s)   Flow 1 egress (mean 193.03 Mbit/s)

Flow 1 (95th percentile 112.62 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2020-04-16 06:26:48
End at: 2020-04-16 06:27:18
Local clock offset: -0.093 ms
Remote clock offset: 5.638 ms


# Below is generated by plot.py at 2020-04-16 09:22:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.56 Mbit/s
95th percentile per-packet one-way delay: 111.111 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 315.56 Mbit/s
95th percentile per-packet one-way delay: 111.111 ms
Loss rate: 0.00%
```
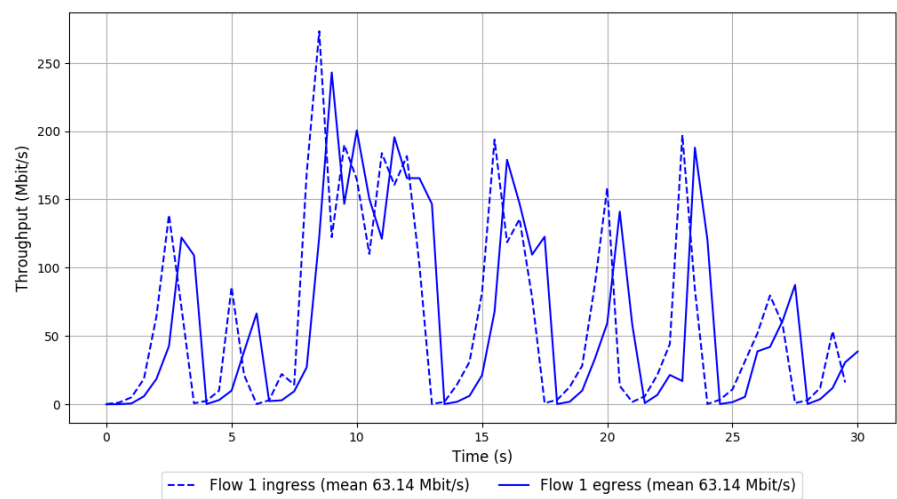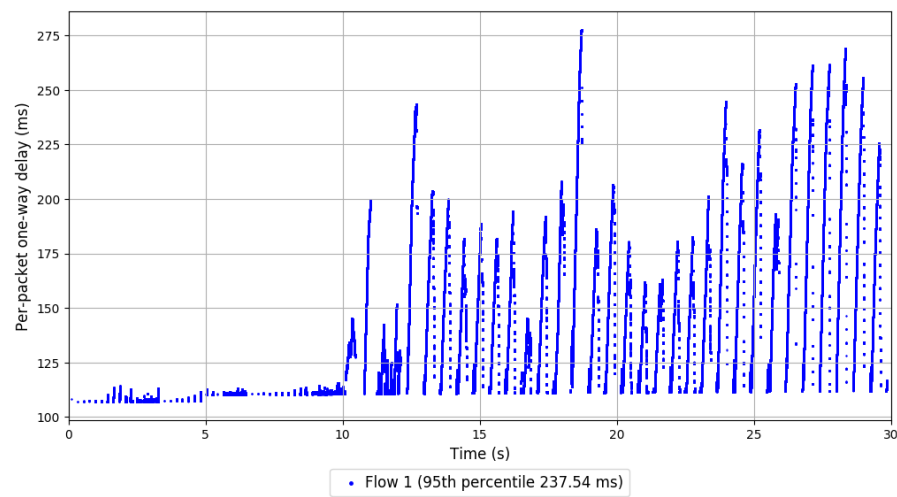
Run 5: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2020-04-16 04:35:10
End at: 2020-04-16 04:35:40
Local clock offset: -0.182 ms
Remote clock offset: 27.364 ms


# Below is generated by plot.py at 2020-04-16 09:22:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.14 Mbit/s
95th percentile per-packet one-way delay: 114.202 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.14 Mbit/s
95th percentile per-packet one-way delay: 114.202 ms
Loss rate: 0.00%
```
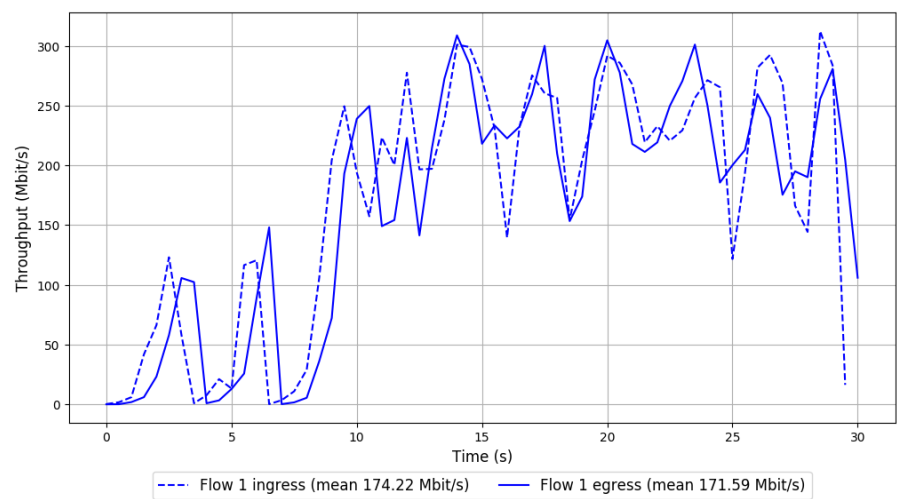
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2020-04-16 05:09:24
End at: 2020-04-16 05:09:54
Local clock offset: -0.427 ms
Remote clock offset: 41.378 ms


# Below is generated by plot.py at 2020-04-16 09:23:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.59 Mbit/s
95th percentile per-packet one-way delay: 237.542 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 171.59 Mbit/s
95th percentile per-packet one-way delay: 237.542 ms
Loss rate: 1.48%
```
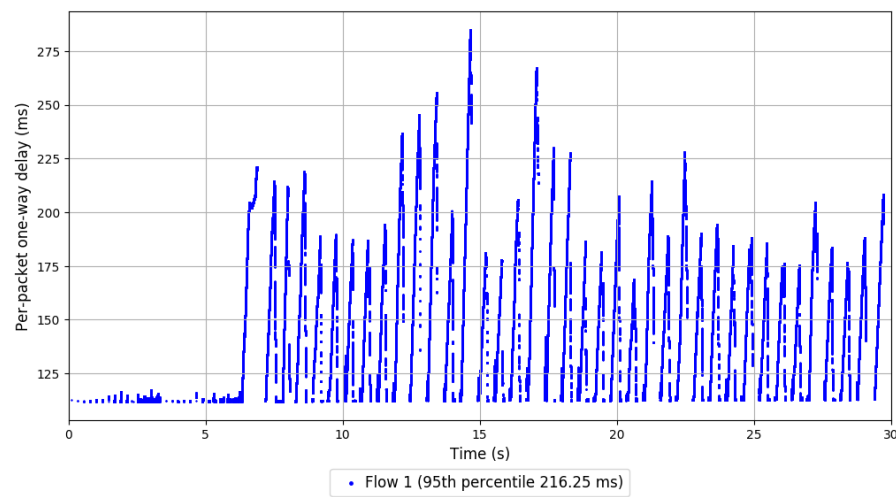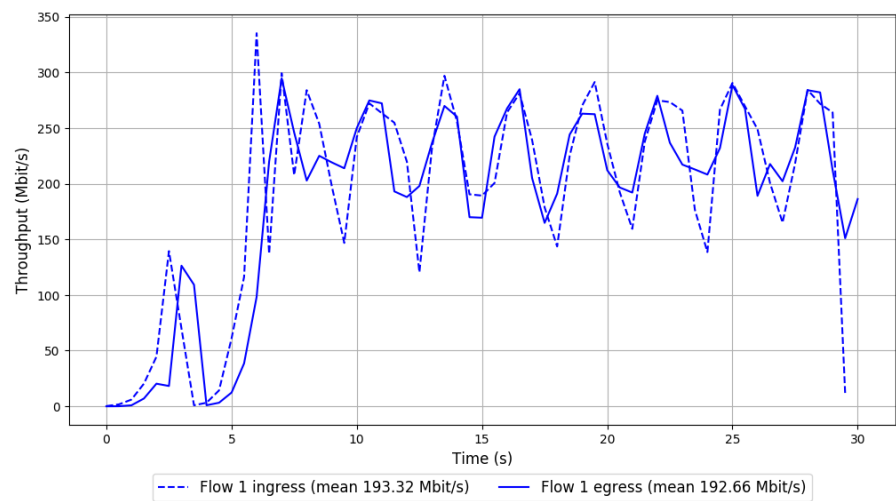
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2020-04-16 05:44:07
End at: 2020-04-16 05:44:37
Local clock offset: -0.271 ms
Remote clock offset: 20.152 ms


# Below is generated by plot.py at 2020-04-16 09:24:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.66 Mbit/s
95th percentile per-packet one-way delay: 216.253 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 192.66 Mbit/s
95th percentile per-packet one-way delay: 216.253 ms
Loss rate: 0.07%
```
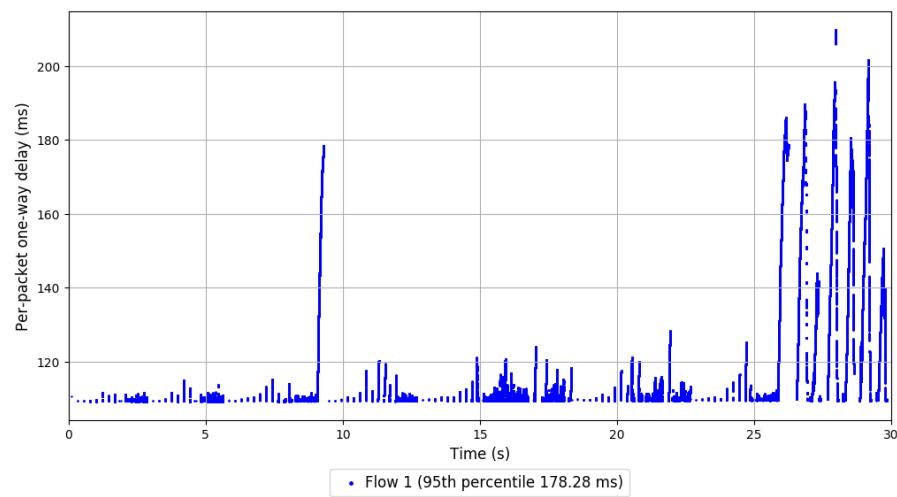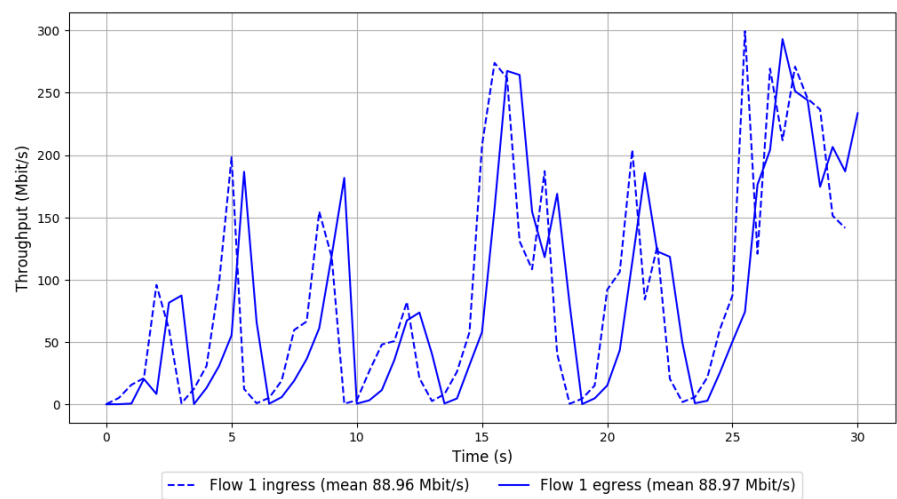
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2020-04-16 06:19:06
End at: 2020-04-16 06:19:36
Local clock offset: -0.029 ms
Remote clock offset: 8.544 ms


# Below is generated by plot.py at 2020-04-16 09:24:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.97 Mbit/s
95th percentile per-packet one-way delay: 178.276 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.97 Mbit/s
95th percentile per-packet one-way delay: 178.276 ms
Loss rate: 0.00%
```

Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2020-04-16 06:53:21
End at: 2020-04-16 06:53:51
Local clock offset: -0.059 ms
Remote clock offset: 8.853 ms


# Below is generated by plot.py at 2020-04-16 09:24:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.83 Mbit/s
95th percentile per-packet one-way delay: 245.316 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 201.83 Mbit/s
95th percentile per-packet one-way delay: 245.316 ms
Loss rate: 2.50%
```
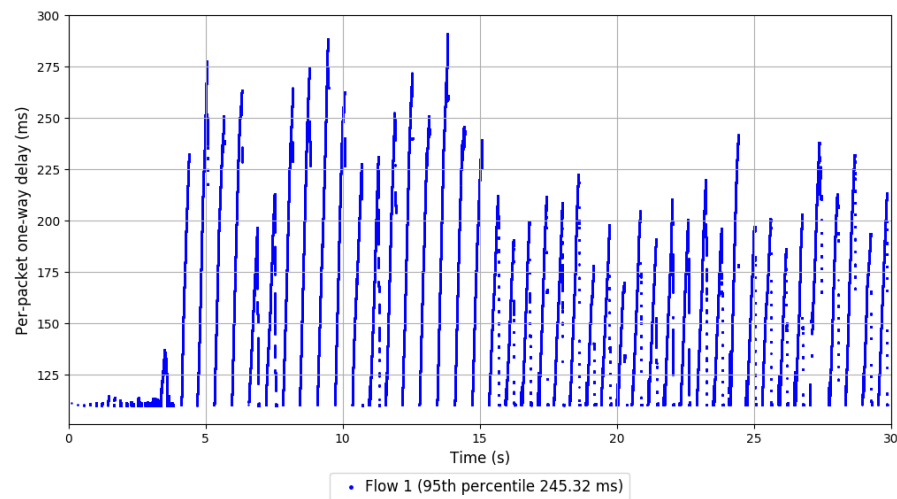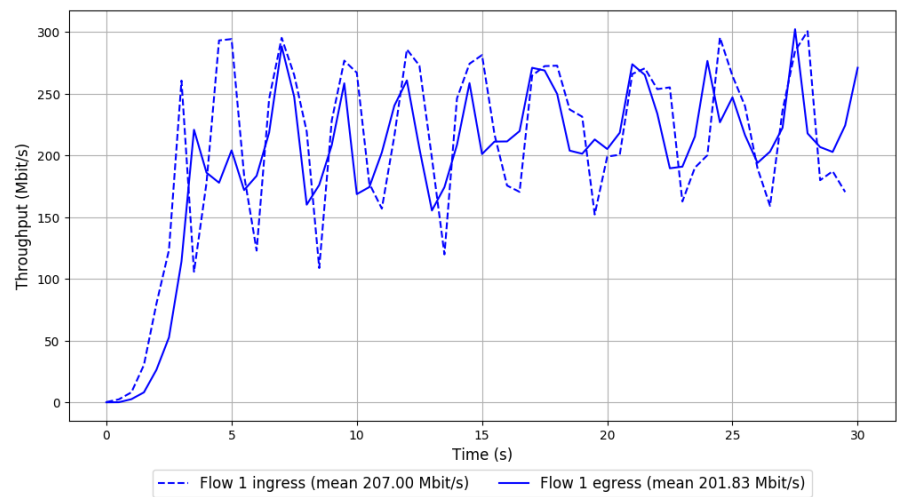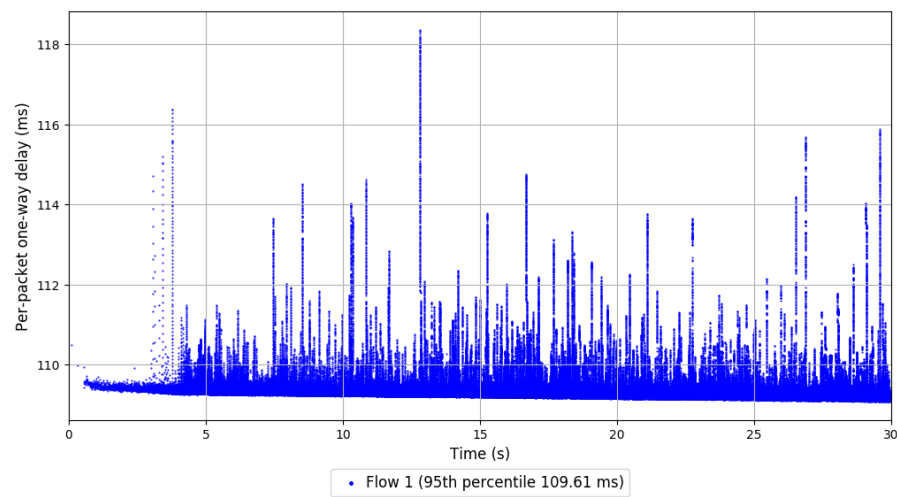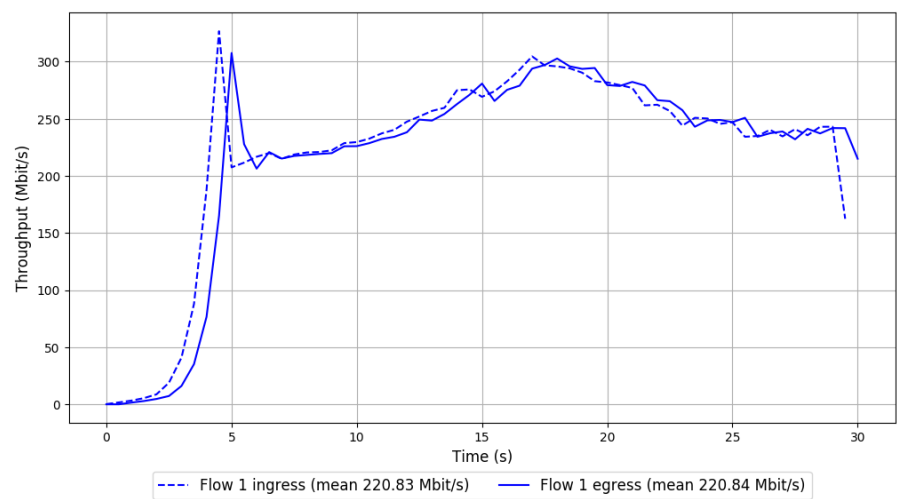
Run 5: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2020-04-16 04:23:31
End at: 2020-04-16 04:24:01
Local clock offset: 0.019 ms
Remote clock offset: 13.803 ms

# Below is generated by plot.py at 2020-04-16 09:24:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.84 Mbit/s
95th percentile per-packet one-way delay: 109.605 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 220.84 Mbit/s
95th percentile per-packet one-way delay: 109.605 ms
Loss rate: 0.01%
```
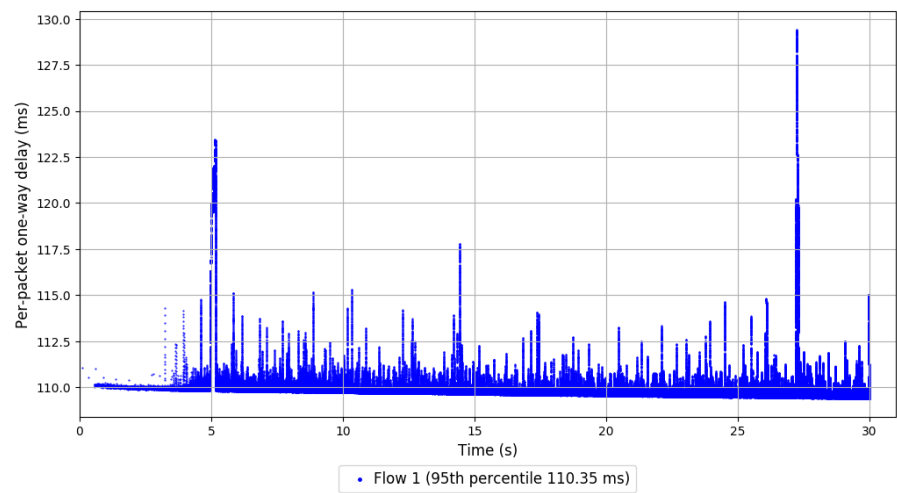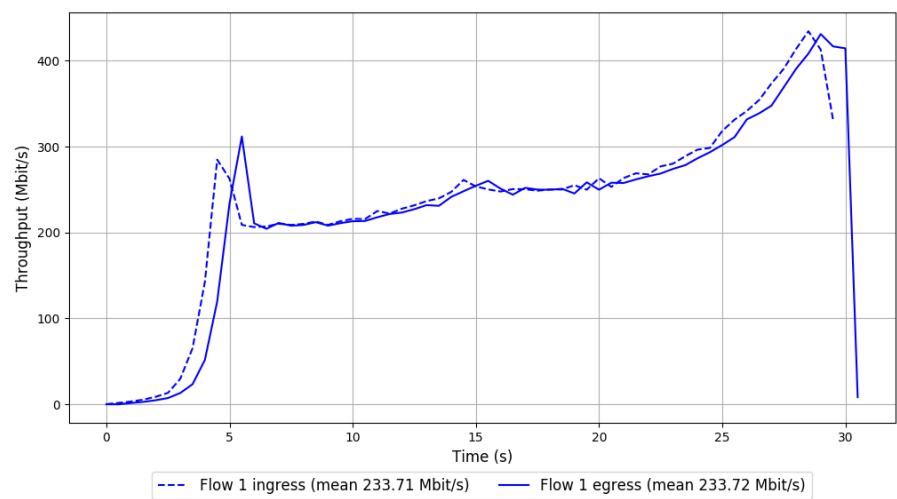
Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2020-04-16 04:58:10
End at: 2020-04-16 04:58:40
Local clock offset: -0.421 ms
Remote clock offset: 29.441 ms


# Below is generated by plot.py at 2020-04-16 09:24:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.72 Mbit/s
95th percentile per-packet one-way delay: 110.347 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 233.72 Mbit/s
95th percentile per-packet one-way delay: 110.347 ms
Loss rate: 0.00%
```
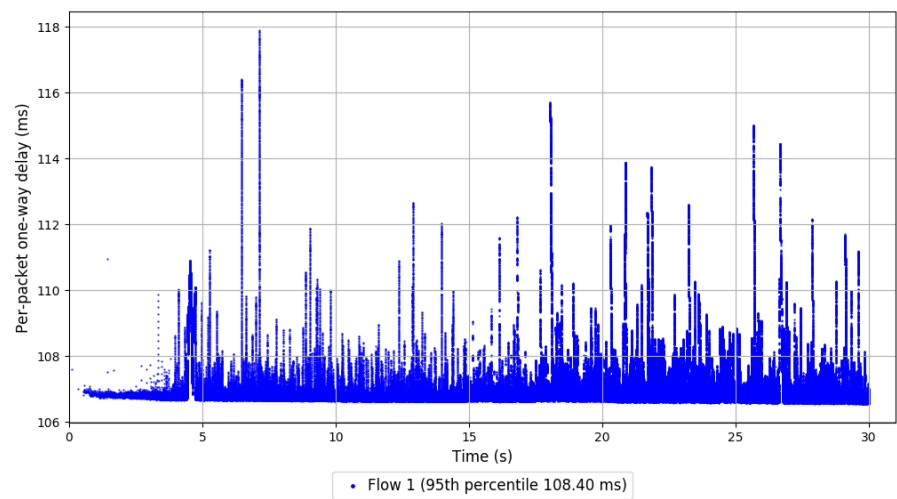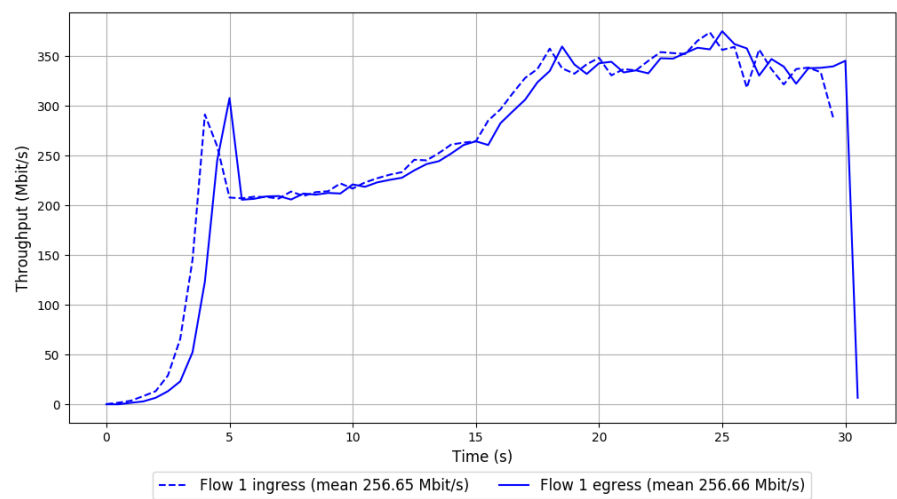
Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2020-04-16 05:32:31
End at: 2020-04-16 05:33:01
Local clock offset: -0.34 ms
Remote clock offset: 16.469 ms


# Below is generated by plot.py at 2020-04-16 09:24:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.66 Mbit/s
95th percentile per-packet one-way delay: 108.396 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 256.66 Mbit/s
95th percentile per-packet one-way delay: 108.396 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 256.65 Mbit/s) — Flow 1 egress (mean 256.66 Mbit/s)

Flow 1 (95th percentile 108.40 ms)

```
Run 4: Statistics of PCC-Vivace

Start at: 2020-04-16 06:07:51
End at: 2020-04-16 06:08:21
Local clock offset: -0.655 ms
Remote clock offset: 8.45 ms


# Below is generated by plot.py at 2020-04-16 09:24:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.19 Mbit/s
95th percentile per-packet one-way delay: 111.187 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.19 Mbit/s
95th percentile per-packet one-way delay: 111.187 ms
Loss rate: 0.00%
```
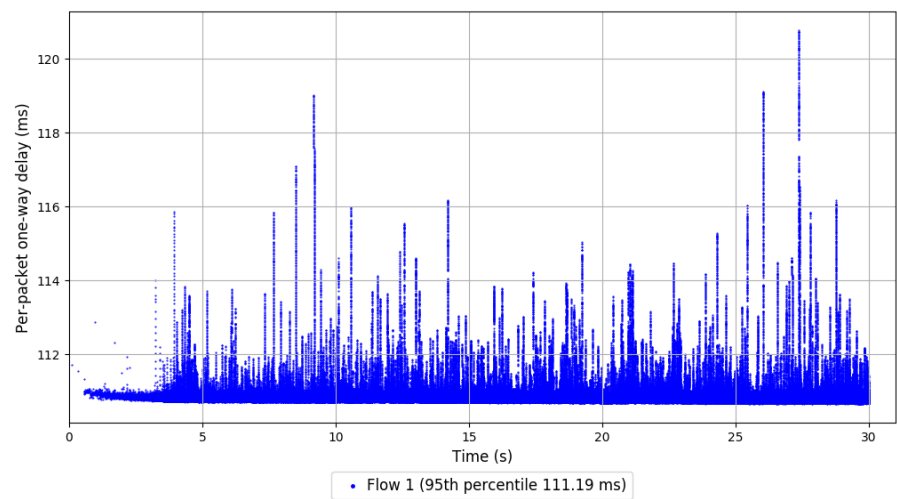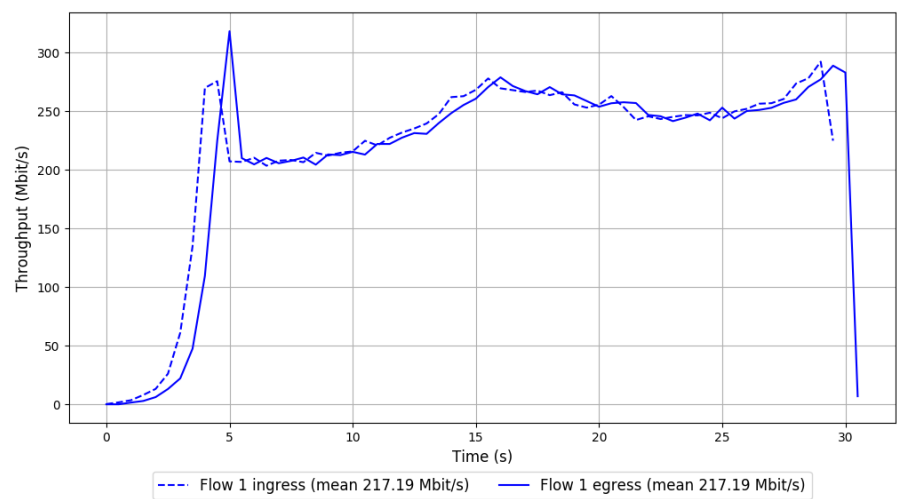
Run 4: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 217.19 Mbit/s) — — — — — Flow 1 egress (mean 217.19 Mbit/s)

Flow 1 (95th percentile 111.19 ms)

```
Run 5: Statistics of PCC-Vivace

Start at: 2020-04-16 06:42:05
End at: 2020-04-16 06:42:35
Local clock offset: -0.797 ms
Remote clock offset: 7.659 ms


# Below is generated by plot.py at 2020-04-16 09:24:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 240.86 Mbit/s
95th percentile per-packet one-way delay: 110.978 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 240.86 Mbit/s
95th percentile per-packet one-way delay: 110.978 ms
Loss rate: 0.01%
```
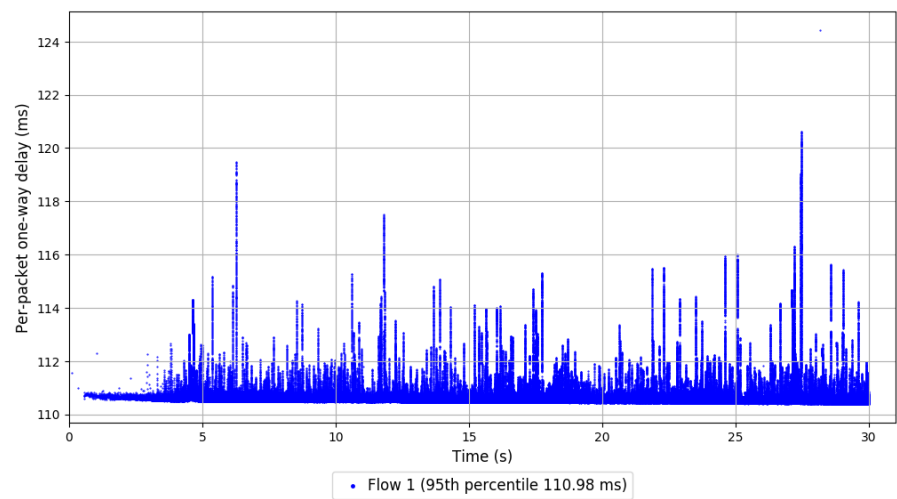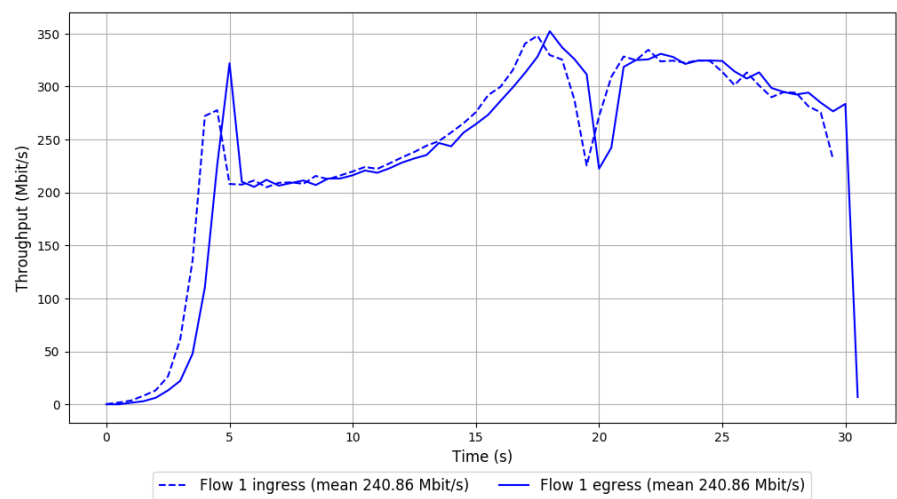
Run 5: Report of PCC-Vivace — Data Link
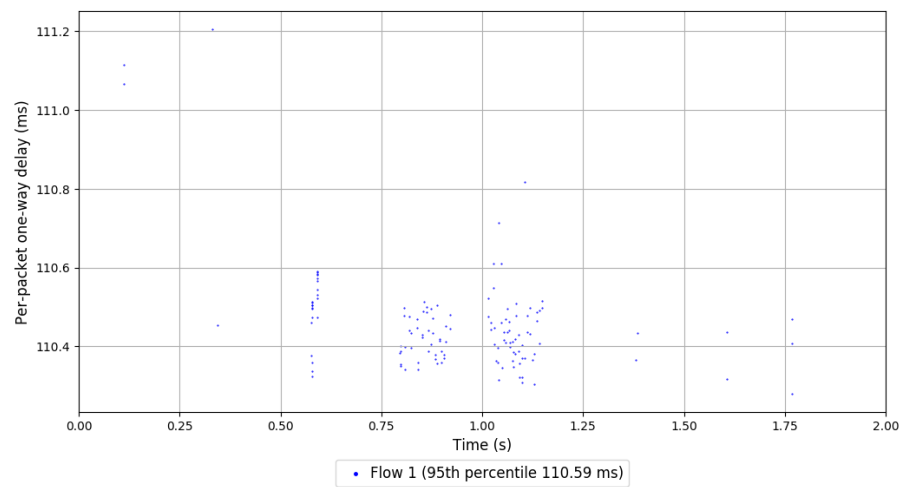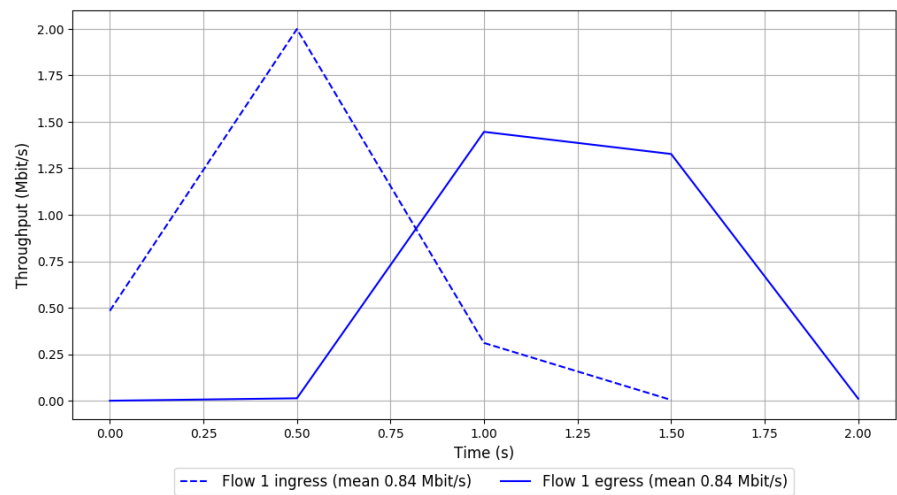
```
Run 1: Statistics of WebRTC media

Start at: 2020-04-16 04:19:36
End at: 2020-04-16 04:20:06
Local clock offset: -0.264 ms
Remote clock offset: 15.928 ms
```

Run 1: Report of WebRTC media — Data Link
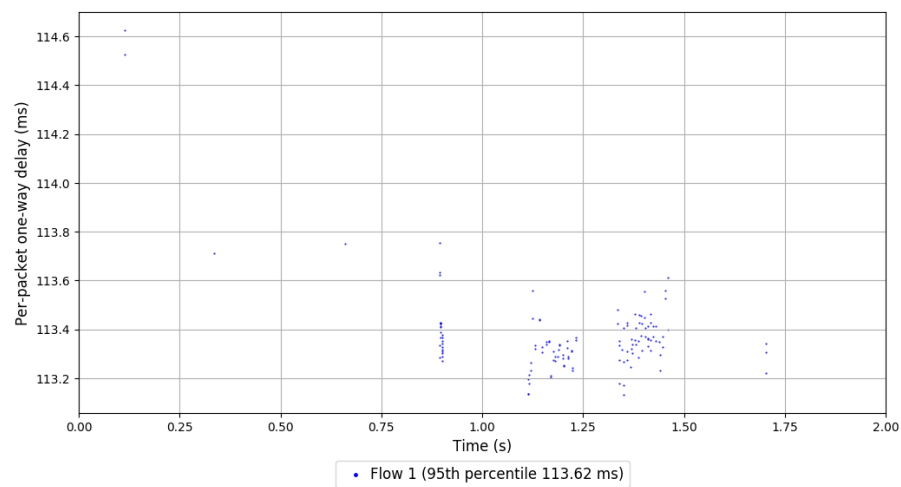
```
Run 2: Statistics of WebRTC media

Start at: 2020-04-16 04:54:18
End at: 2020-04-16 04:54:48
Local clock offset: -1.485 ms
Remote clock offset: 25.622 ms
```
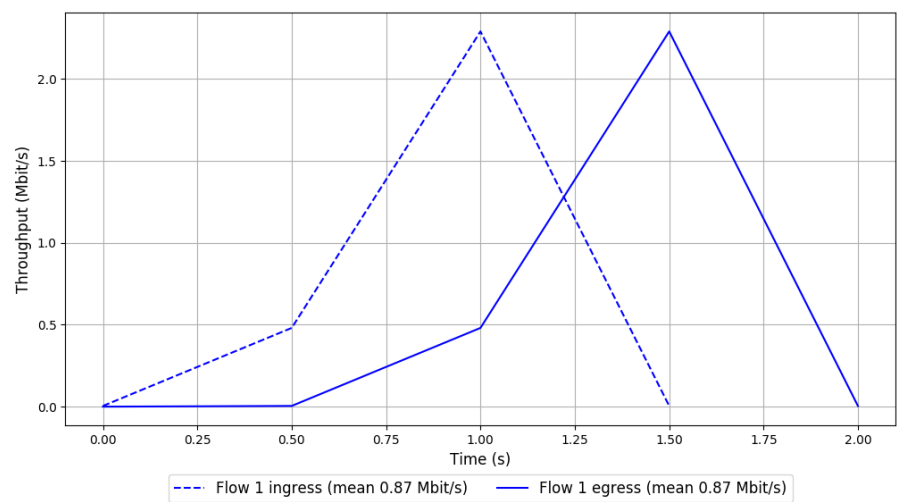
Run 2: Report of WebRTC media — Data Link
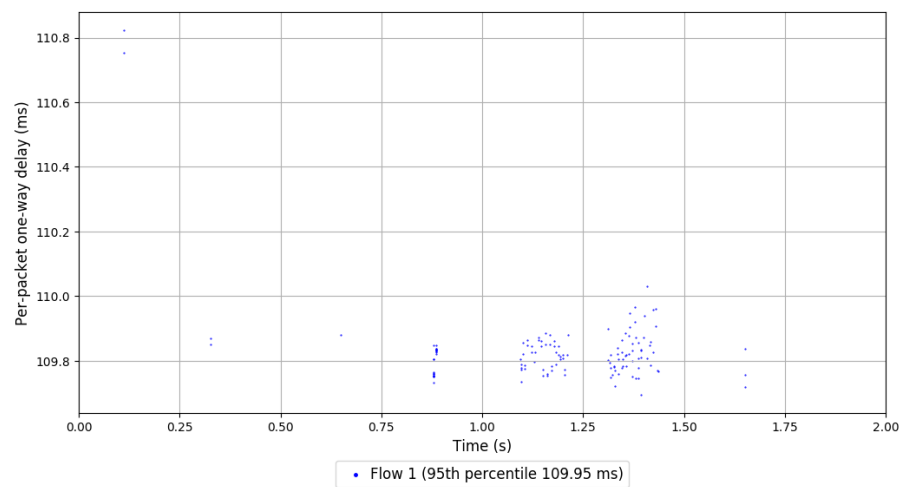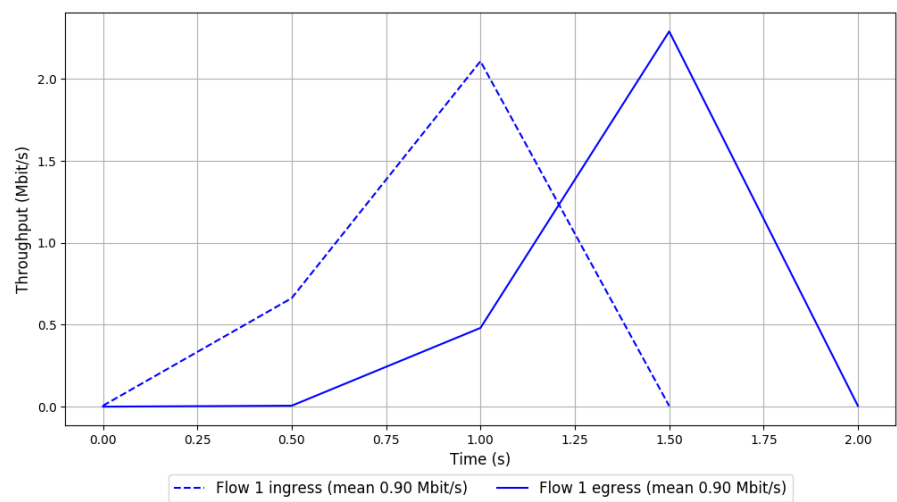
```
Run 3: Statistics of WebRTC media

Start at: 2020-04-16 05:28:40
End at: 2020-04-16 05:29:10
Local clock offset: -0.341 ms
Remote clock offset: 15.768 ms
```

Run 3: Report of WebRTC media — Data Link

Flow 1 ingress (mean 0.90 Mbit/s)   Flow 1 egress (mean 0.90 Mbit/s)

Flow 1 (95th percentile 109.95 ms)
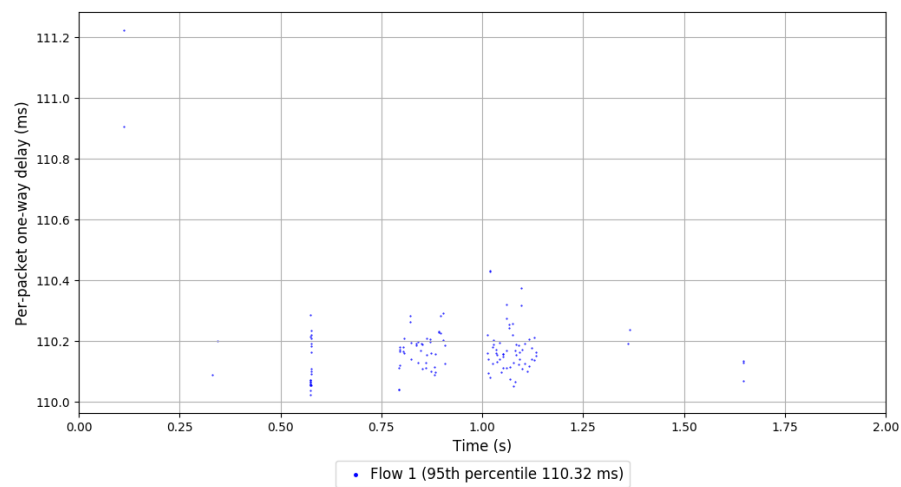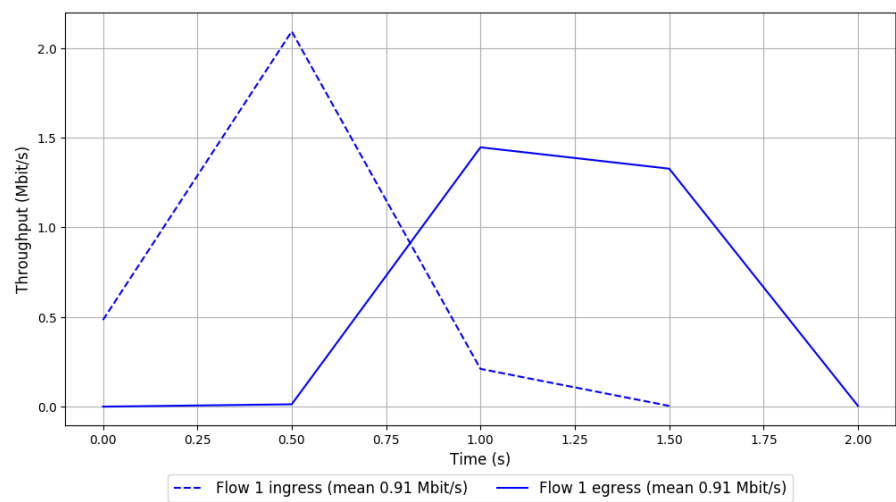
Run 4: Statistics of WebRTC media

Start at: 2020-04-16 06:03:53
End at: 2020-04-16 06:04:23
Local clock offset: -0.233 ms
Remote clock offset: 7.617 ms

Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2020-04-16 06:38:34
End at: 2020-04-16 06:39:04
Local clock offset: 0.108 ms
Remote clock offset: 6.849 ms
```

Run 5: Report of WebRTC media — Data Link

Flow 1 ingress (mean 0.29 Mbit/s)   Flow 1 egress (mean 0.29 Mbit/s)

Flow 1 (95th percentile 109.44 ms)