

Pantheon Report

Generated at 2019-03-26 23:13:25 (UTC).

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

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

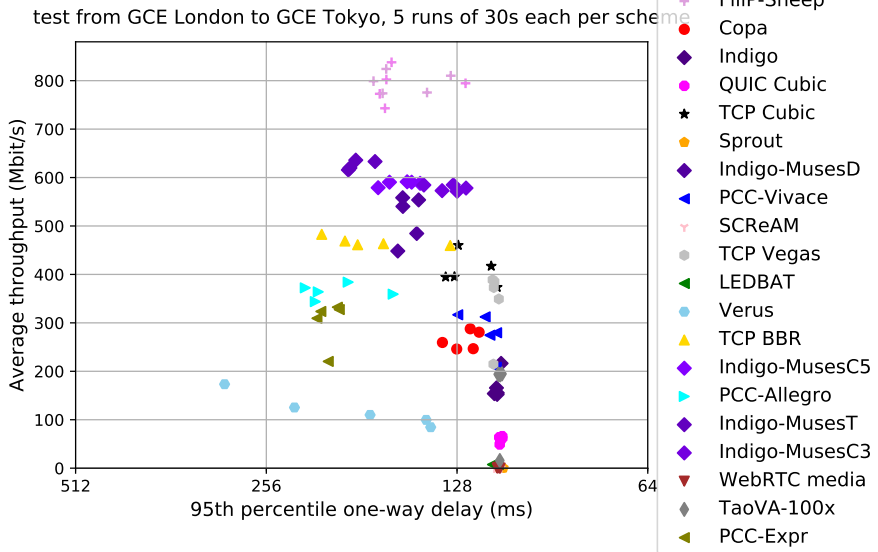
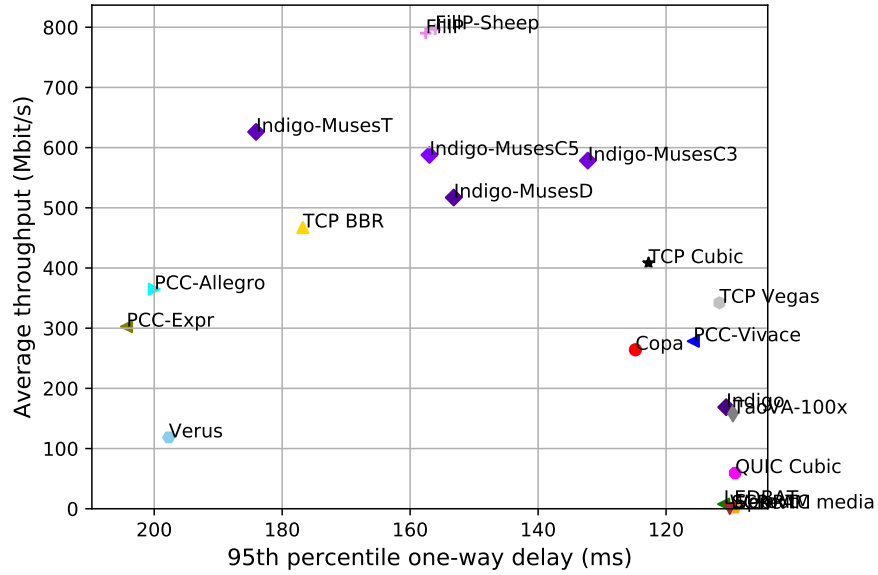
```
Linux 4.15.0-1028-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 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 London to GCE Tokyo, 5 runs of 30s each per scheme
(mean of all runs by scheme)



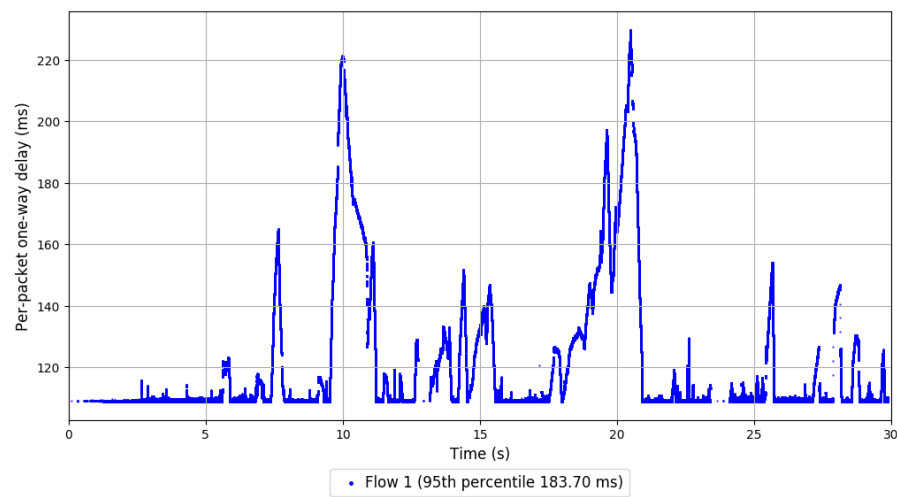
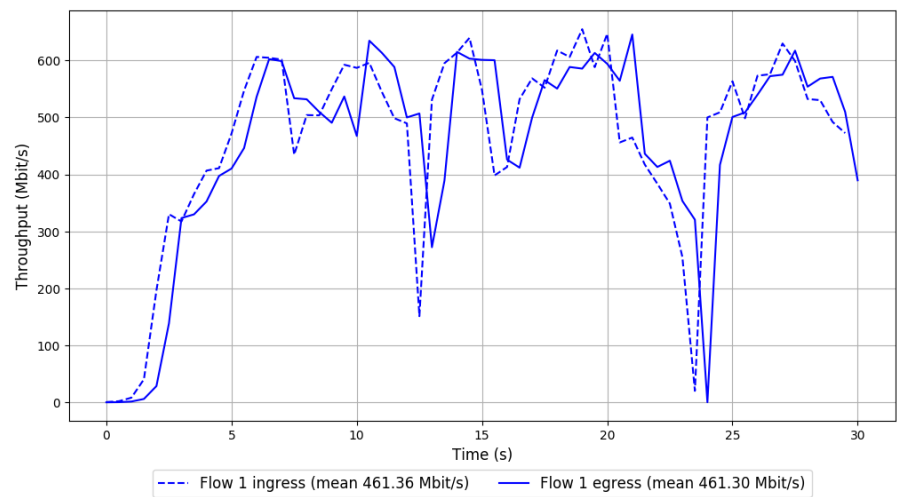
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	467.26	176.77	1.17
Copa	5	264.12	124.79	0.76
TCP Cubic	5	408.17	122.74	0.80
FillP	5	790.13	157.57	1.70
FillP-Sheep	5	796.57	156.09	1.56
Indigo	5	168.75	110.60	0.76
Indigo-MusesC3	5	578.42	132.23	0.90
Indigo-MusesC5	5	587.82	156.98	1.02
Indigo-MusesD	5	517.05	153.19	0.87
Indigo-MusesT	4	626.12	184.08	0.95
LEDBAT	5	7.72	111.00	1.47
PCC-Allegro	5	364.69	199.99	1.88
PCC-Expr	5	302.61	204.33	2.02
QUIC Cubic	5	59.39	109.20	1.17
SCReAM	5	0.22	109.77	0.69
Sprout	5	1.34	109.28	0.86
TaoVA-100x	5	158.09	109.55	0.70
TCP Vegas	5	342.14	111.66	0.78
Verus	5	118.56	197.73	4.89
PCC-Vivace	5	278.32	115.74	0.93
WebRTC media	4	0.51	110.05	0.30

Run 1: Statistics of TCP BBR

Start at: 2019-03-26 19:10:47
End at: 2019-03-26 19:11:17
Local clock offset: 14.111 ms
Remote clock offset: 15.468 ms

Below is generated by plot.py at 2019-03-26 21:46:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 461.30 Mbit/s
95th percentile per-packet one-way delay: 183.700 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 461.30 Mbit/s
95th percentile per-packet one-way delay: 183.700 ms
Loss rate: 0.74%

Run 1: Report of TCP BBR — Data Link

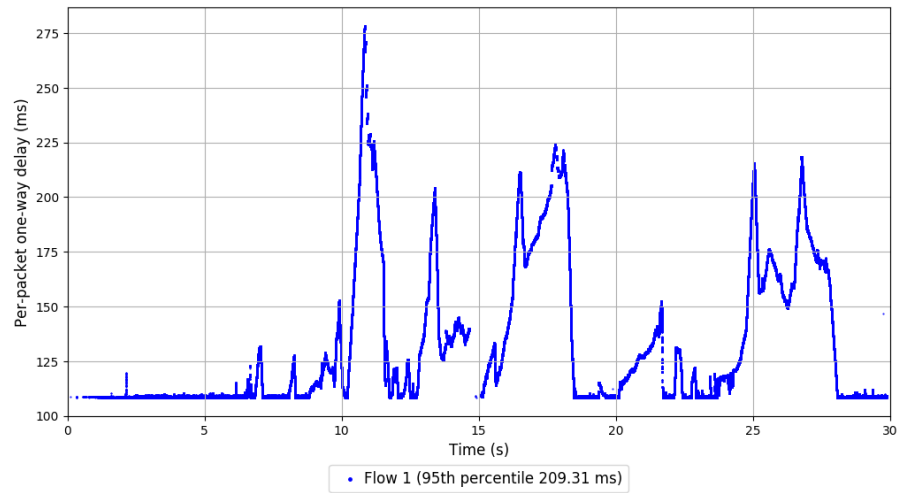
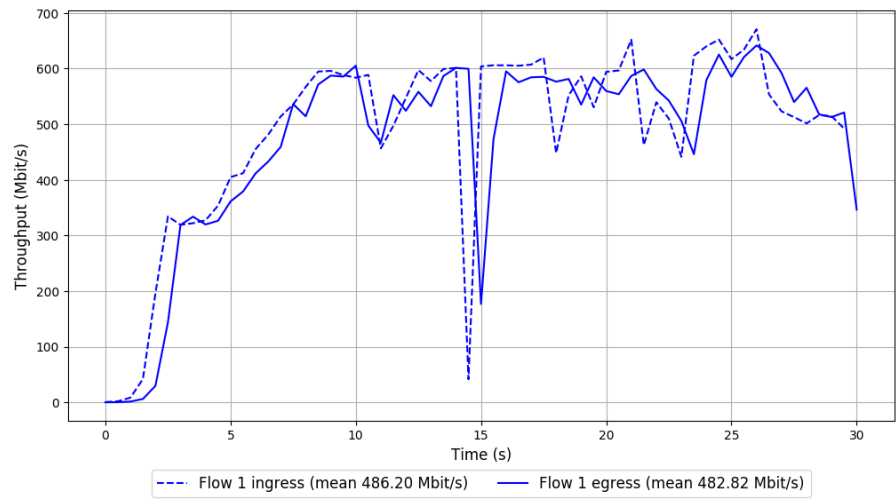


Run 2: Statistics of TCP BBR

Start at: 2019-03-26 19:43:21
End at: 2019-03-26 19:43:51
Local clock offset: 28.263 ms
Remote clock offset: 29.646 ms

Below is generated by plot.py at 2019-03-26 21:47:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 482.82 Mbit/s
95th percentile per-packet one-way delay: 209.308 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 482.82 Mbit/s
95th percentile per-packet one-way delay: 209.308 ms
Loss rate: 1.42%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-03-26 20:15:36

End at: 2019-03-26 20:16:06

Local clock offset: 8.785 ms

Remote clock offset: 9.248 ms

Below is generated by plot.py at 2019-03-26 21:47:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 463.45 Mbit/s

95th percentile per-packet one-way delay: 167.245 ms

Loss rate: 1.14%

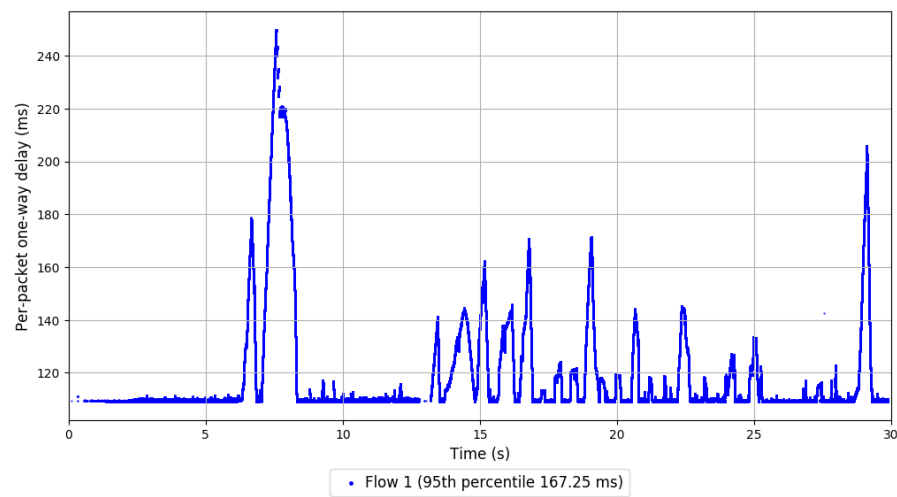
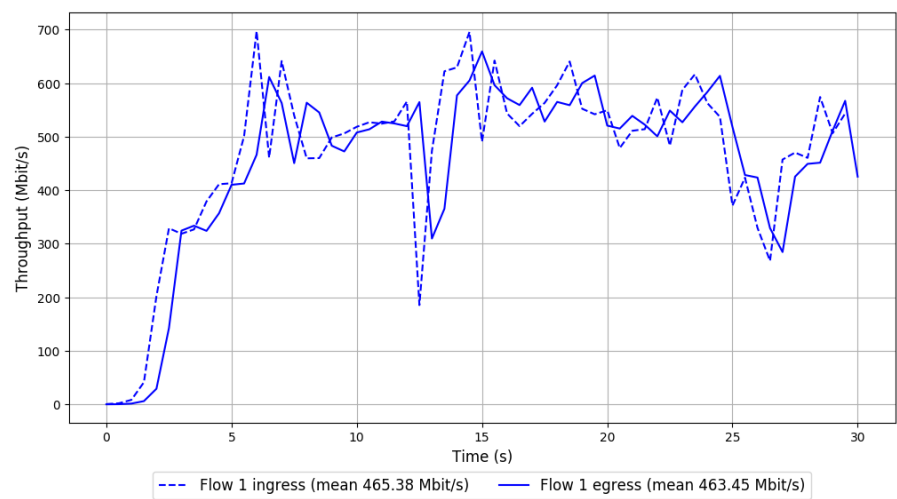
-- Flow 1:

Average throughput: 463.45 Mbit/s

95th percentile per-packet one-way delay: 167.245 ms

Loss rate: 1.14%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-03-26 20:48:04

End at: 2019-03-26 20:48:35

Local clock offset: 3.416 ms

Remote clock offset: 3.629 ms

Below is generated by plot.py at 2019-03-26 21:47:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 468.99 Mbit/s

95th percentile per-packet one-way delay: 192.372 ms

Loss rate: 1.41%

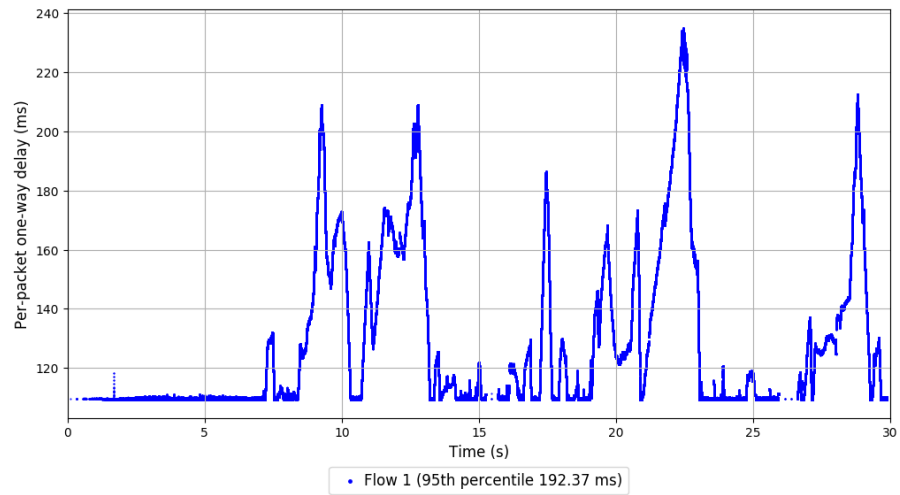
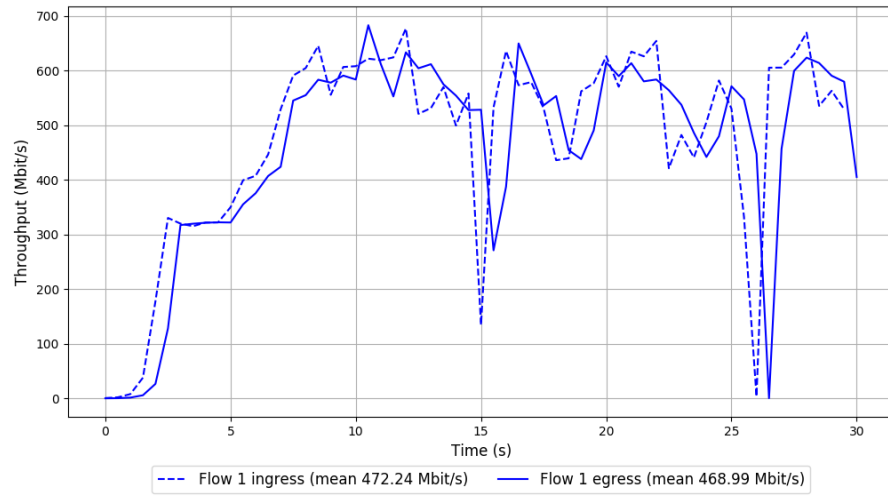
-- Flow 1:

Average throughput: 468.99 Mbit/s

95th percentile per-packet one-way delay: 192.372 ms

Loss rate: 1.41%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-03-26 21:20:32

End at: 2019-03-26 21:21:02

Local clock offset: 1.329 ms

Remote clock offset: 1.557 ms

Below is generated by plot.py at 2019-03-26 21:47:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 459.76 Mbit/s

95th percentile per-packet one-way delay: 131.209 ms

Loss rate: 1.14%

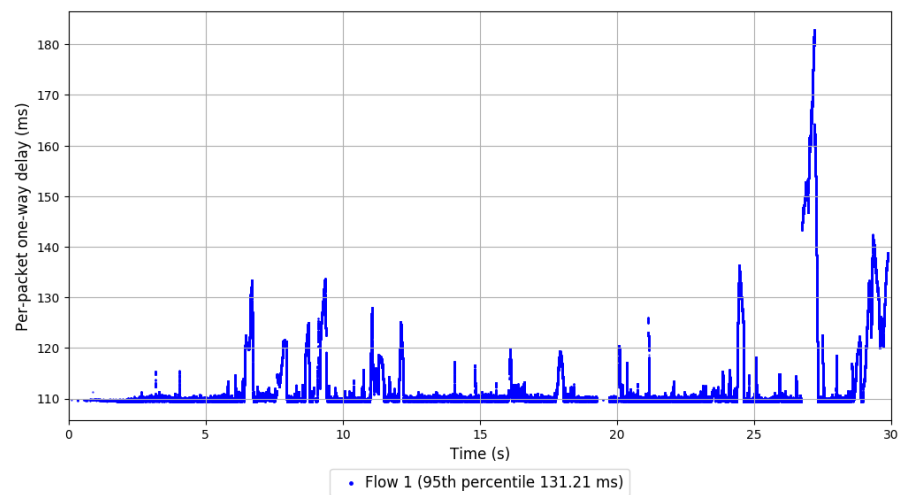
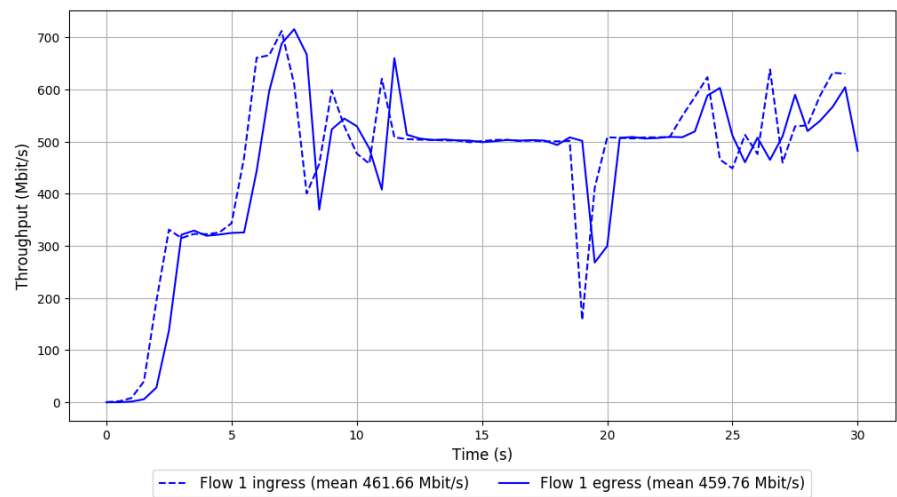
-- Flow 1:

Average throughput: 459.76 Mbit/s

95th percentile per-packet one-way delay: 131.209 ms

Loss rate: 1.14%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-03-26 18:51:52

End at: 2019-03-26 18:52:22

Local clock offset: 6.756 ms

Remote clock offset: 7.062 ms

Below is generated by plot.py at 2019-03-26 21:47:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.48 Mbit/s

95th percentile per-packet one-way delay: 134.980 ms

Loss rate: 0.84%

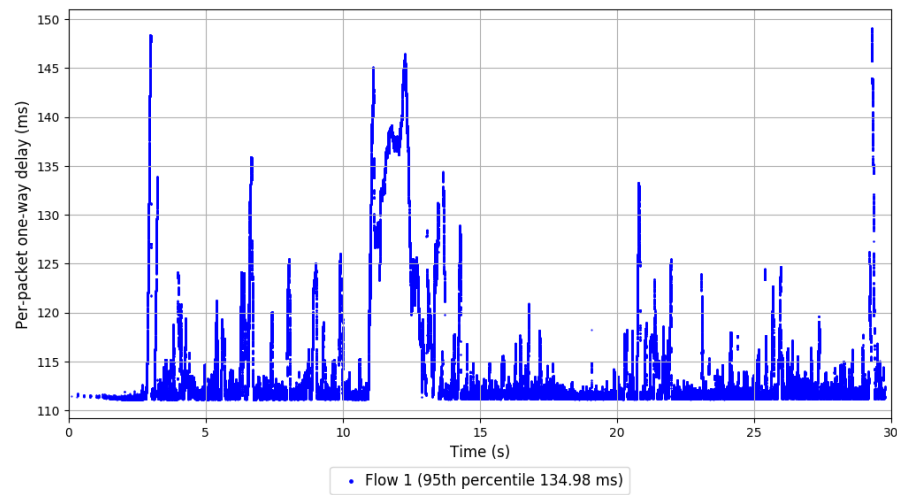
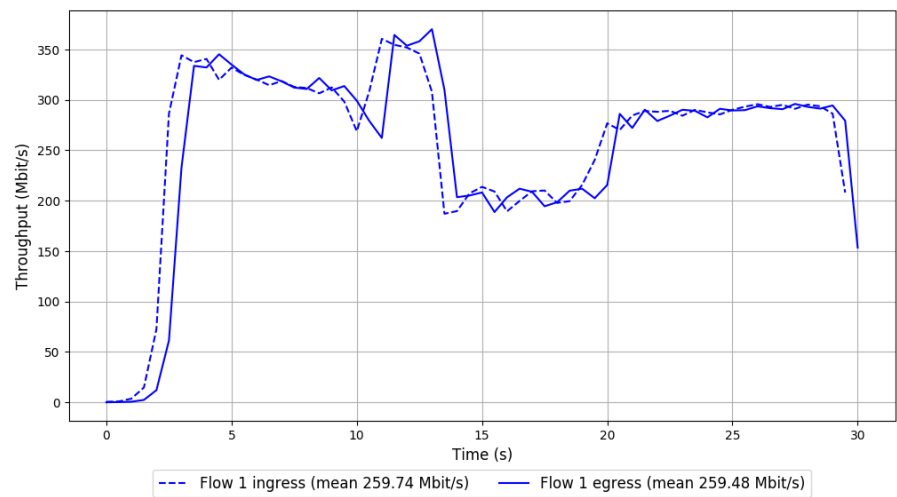
-- Flow 1:

Average throughput: 259.48 Mbit/s

95th percentile per-packet one-way delay: 134.980 ms

Loss rate: 0.84%

Run 1: Report of Copa — Data Link

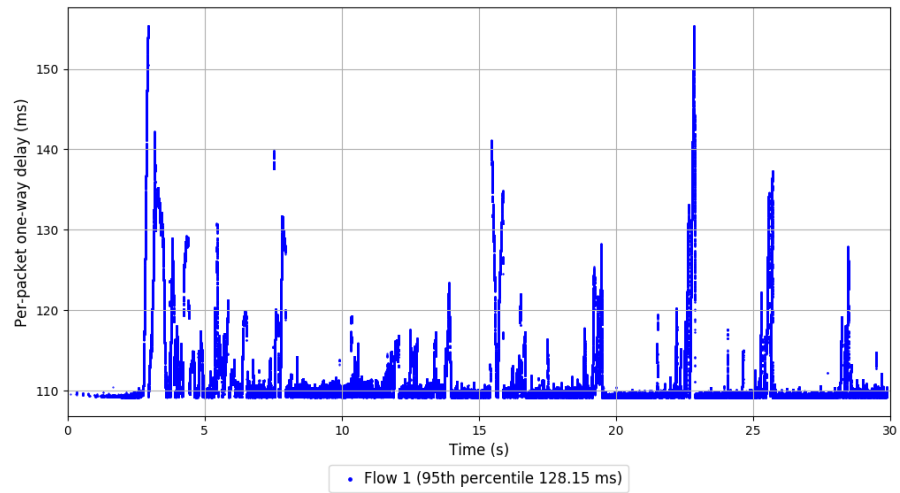
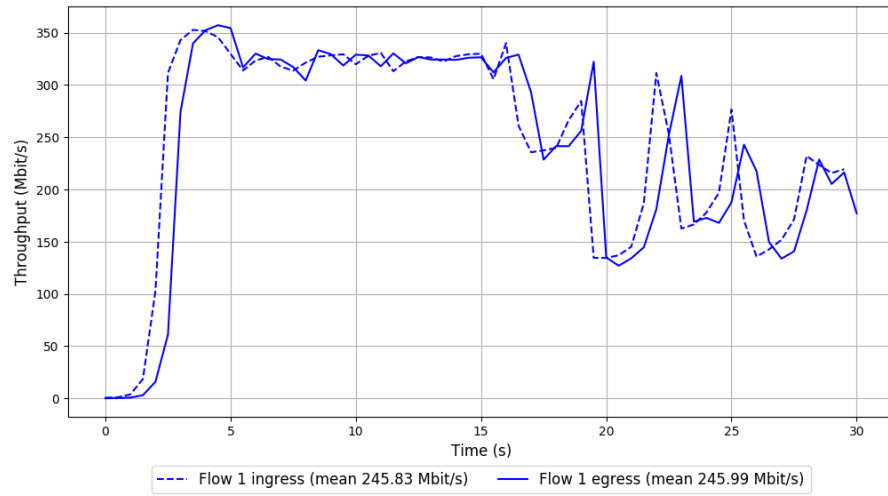


Run 2: Statistics of Copa

Start at: 2019-03-26 19:23:28
End at: 2019-03-26 19:23:58
Local clock offset: 20.712 ms
Remote clock offset: 21.633 ms

Below is generated by plot.py at 2019-03-26 21:47:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 245.99 Mbit/s
95th percentile per-packet one-way delay: 128.151 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 245.99 Mbit/s
95th percentile per-packet one-way delay: 128.151 ms
Loss rate: 0.66%

Run 2: Report of Copa — Data Link

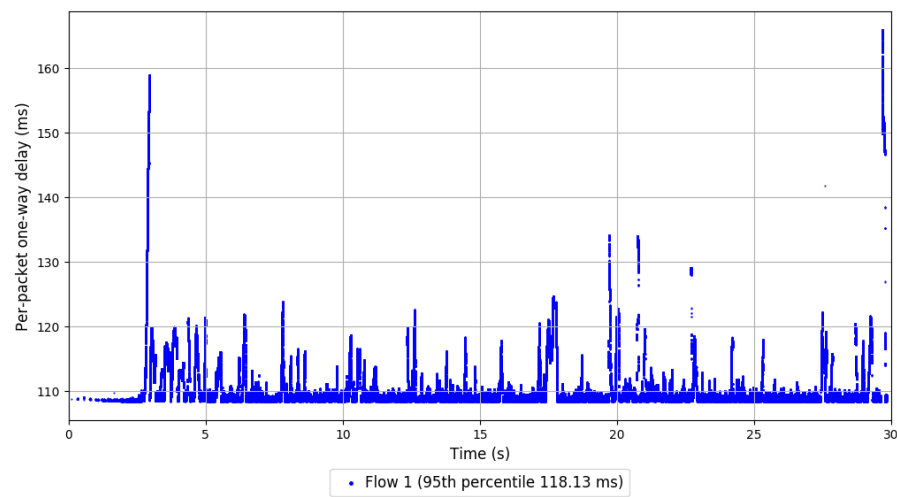
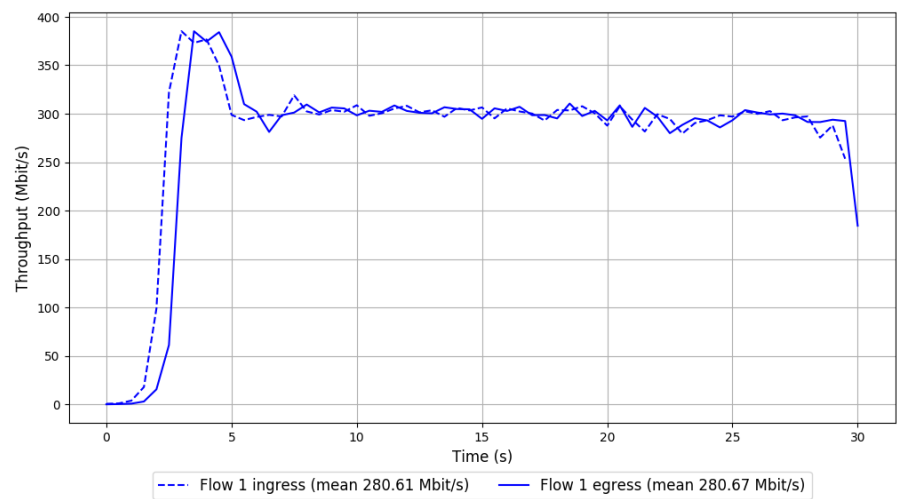


Run 3: Statistics of Copa

Start at: 2019-03-26 19:56:44
End at: 2019-03-26 19:57:14
Local clock offset: 28.346 ms
Remote clock offset: 29.508 ms

Below is generated by plot.py at 2019-03-26 21:47:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 280.67 Mbit/s
95th percentile per-packet one-way delay: 118.132 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 280.67 Mbit/s
95th percentile per-packet one-way delay: 118.132 ms
Loss rate: 0.71%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-03-26 20:28:26

End at: 2019-03-26 20:28:56

Local clock offset: 9.585 ms

Remote clock offset: 9.661 ms

Below is generated by plot.py at 2019-03-26 21:55:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 287.79 Mbit/s

95th percentile per-packet one-way delay: 122.002 ms

Loss rate: 0.70%

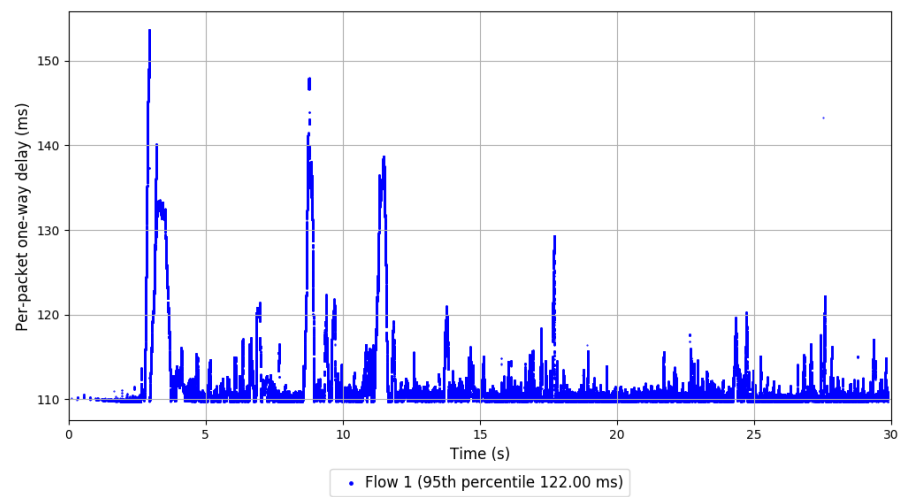
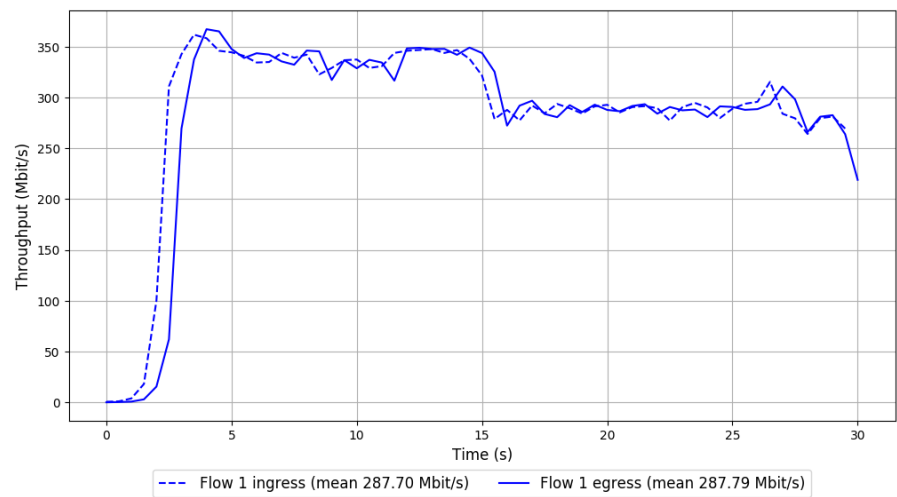
-- Flow 1:

Average throughput: 287.79 Mbit/s

95th percentile per-packet one-way delay: 122.002 ms

Loss rate: 0.70%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-03-26 21:01:36

End at: 2019-03-26 21:02:06

Local clock offset: 4.321 ms

Remote clock offset: 4.631 ms

Below is generated by plot.py at 2019-03-26 21:55:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.67 Mbit/s

95th percentile per-packet one-way delay: 120.685 ms

Loss rate: 0.89%

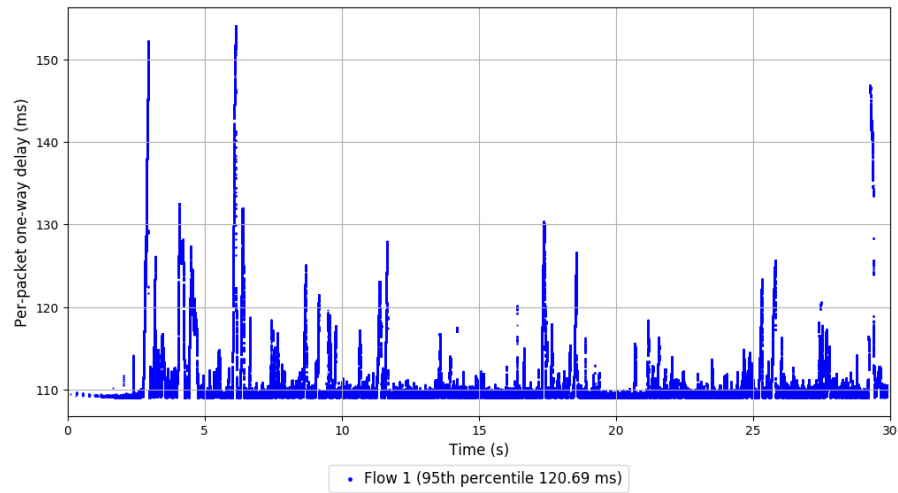
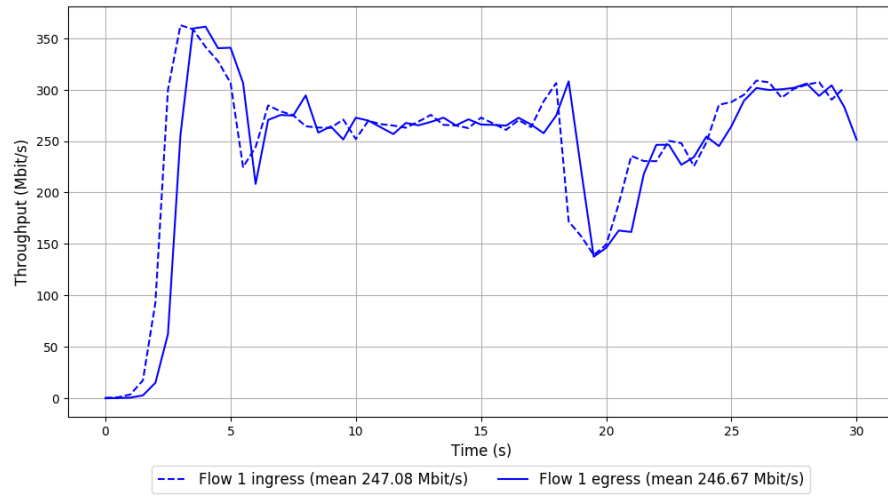
-- Flow 1:

Average throughput: 246.67 Mbit/s

95th percentile per-packet one-way delay: 120.685 ms

Loss rate: 0.89%

Run 5: Report of Copa — Data Link

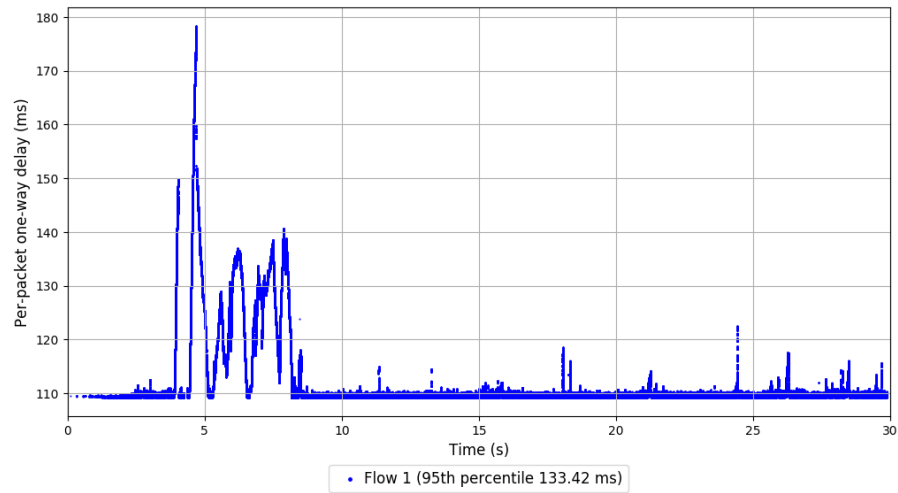
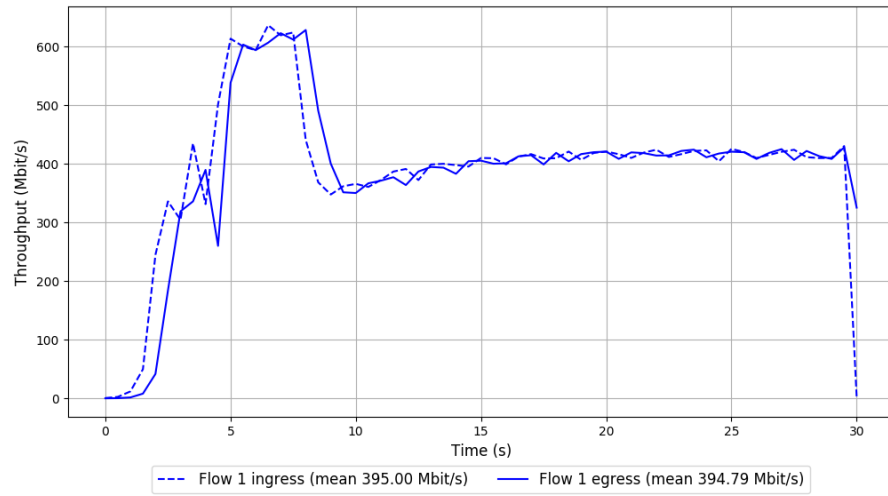


Run 1: Statistics of TCP Cubic

Start at: 2019-03-26 19:09:15
End at: 2019-03-26 19:09:45
Local clock offset: 13.518 ms
Remote clock offset: 14.272 ms

Below is generated by plot.py at 2019-03-26 21:55:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 394.79 Mbit/s
95th percentile per-packet one-way delay: 133.417 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 394.79 Mbit/s
95th percentile per-packet one-way delay: 133.417 ms
Loss rate: 0.78%

Run 1: Report of TCP Cubic — Data Link

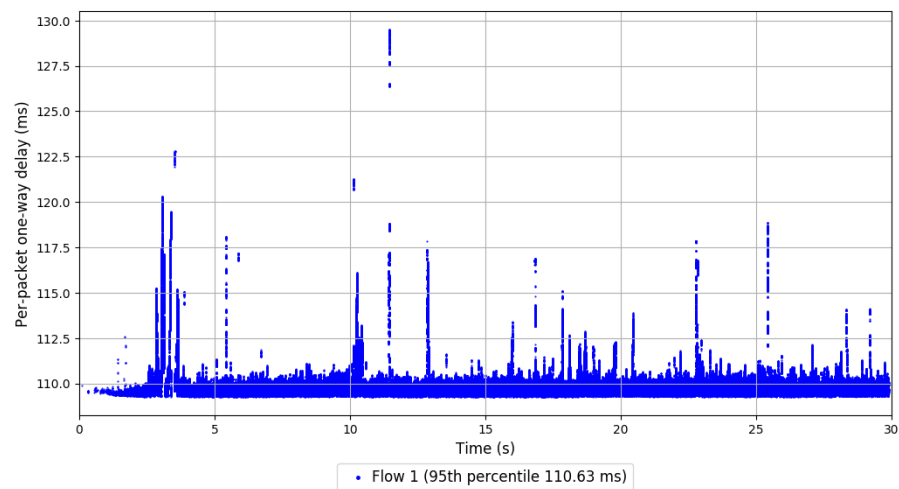
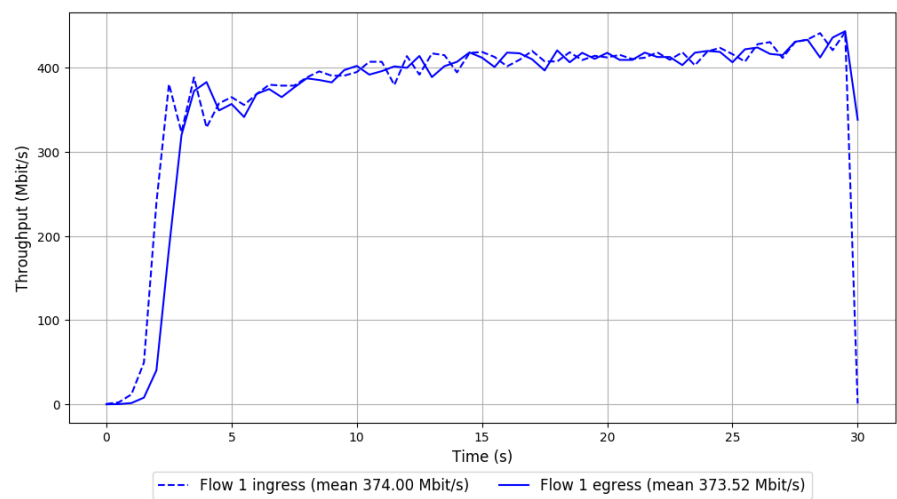


Run 2: Statistics of TCP Cubic

Start at: 2019-03-26 19:41:51
End at: 2019-03-26 19:42:21
Local clock offset: 27.07 ms
Remote clock offset: 28.183 ms

Below is generated by plot.py at 2019-03-26 21:55:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 373.52 Mbit/s
95th percentile per-packet one-way delay: 110.626 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 373.52 Mbit/s
95th percentile per-packet one-way delay: 110.626 ms
Loss rate: 0.86%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-03-26 20:14:04

End at: 2019-03-26 20:14:34

Local clock offset: 8.358 ms

Remote clock offset: 9.39 ms

Below is generated by plot.py at 2019-03-26 21:55:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 395.18 Mbit/s

95th percentile per-packet one-way delay: 129.197 ms

Loss rate: 0.80%

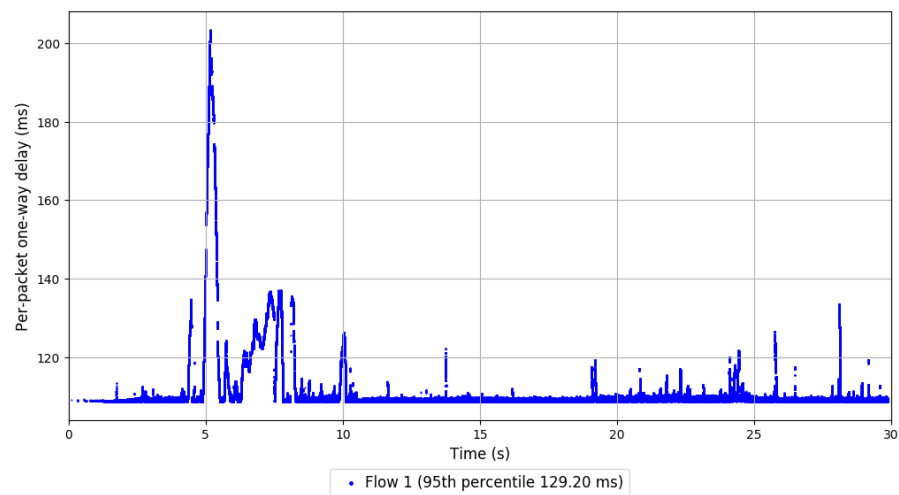
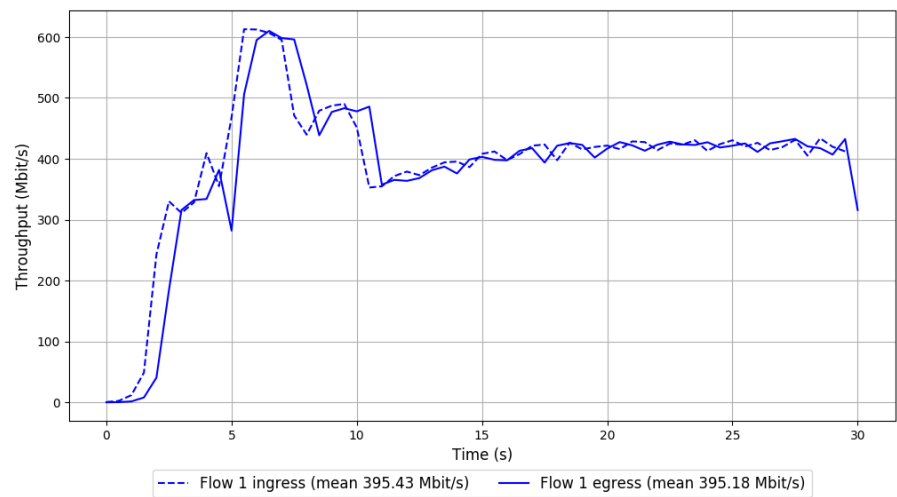
-- Flow 1:

Average throughput: 395.18 Mbit/s

95th percentile per-packet one-way delay: 129.197 ms

Loss rate: 0.80%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-03-26 20:46:28

End at: 2019-03-26 20:46:58

Local clock offset: 3.339 ms

Remote clock offset: 3.628 ms

Below is generated by plot.py at 2019-03-26 21:55:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 460.17 Mbit/s

95th percentile per-packet one-way delay: 127.417 ms

Loss rate: 0.85%

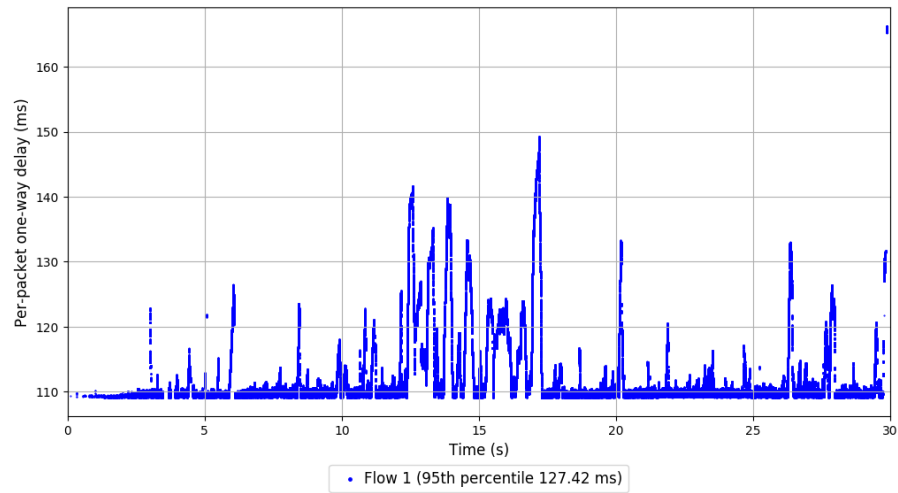
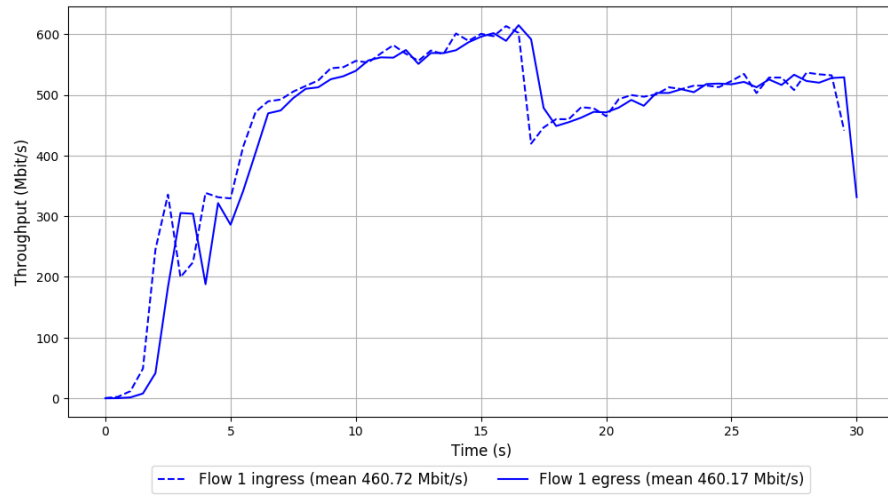
-- Flow 1:

Average throughput: 460.17 Mbit/s

95th percentile per-packet one-way delay: 127.417 ms

Loss rate: 0.85%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-03-26 21:19:00

End at: 2019-03-26 21:19:30

Local clock offset: 1.506 ms

Remote clock offset: 1.58 ms

Below is generated by plot.py at 2019-03-26 21:55:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 417.20 Mbit/s

95th percentile per-packet one-way delay: 113.043 ms

Loss rate: 0.73%

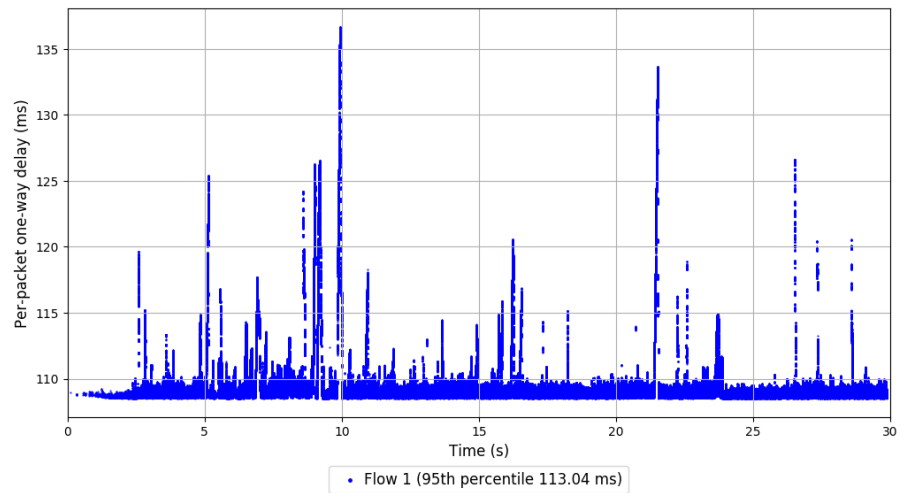
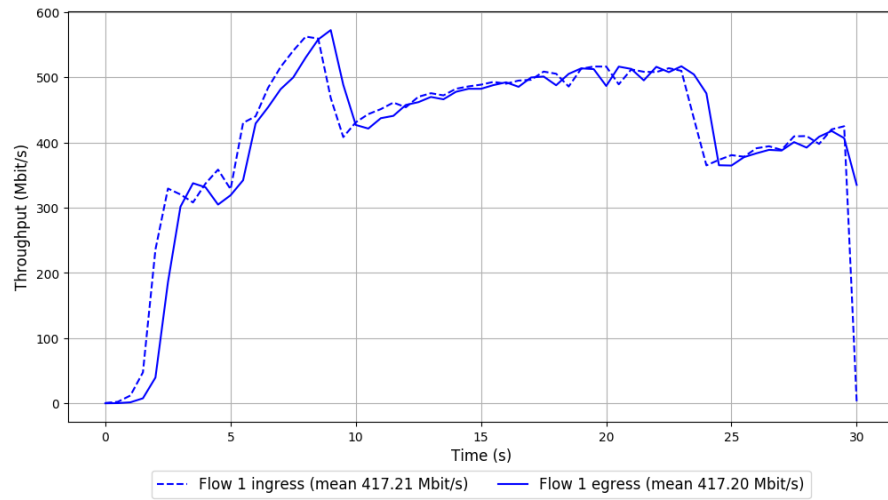
-- Flow 1:

Average throughput: 417.20 Mbit/s

95th percentile per-packet one-way delay: 113.043 ms

Loss rate: 0.73%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-03-26 19:01:49

End at: 2019-03-26 19:02:19

Local clock offset: 15.248 ms

Remote clock offset: 16.64 ms

Below is generated by plot.py at 2019-03-26 22:05:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 837.93 Mbit/s

95th percentile per-packet one-way delay: 162.395 ms

Loss rate: 1.52%

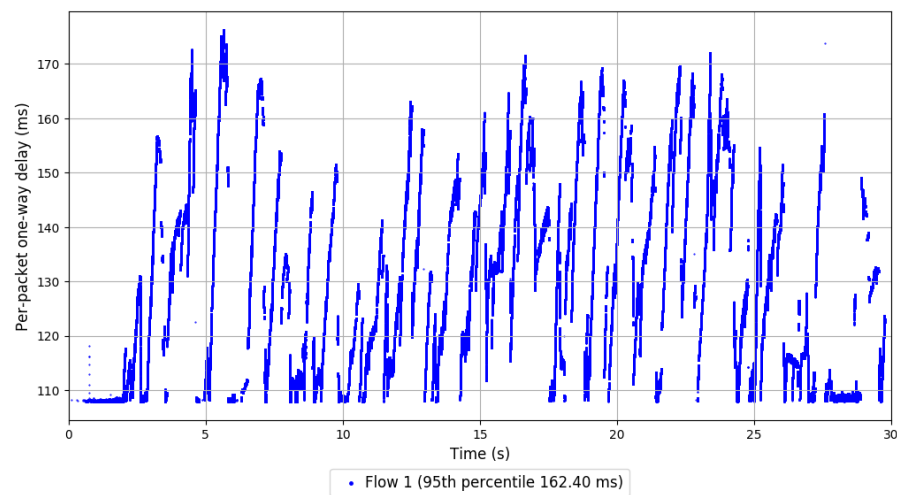
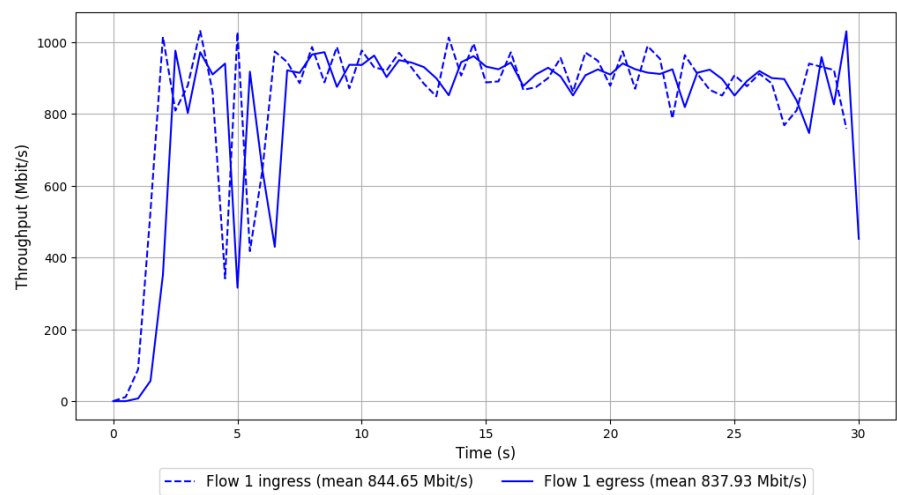
-- Flow 1:

Average throughput: 837.93 Mbit/s

95th percentile per-packet one-way delay: 162.395 ms

Loss rate: 1.52%

Run 1: Report of FillP — Data Link

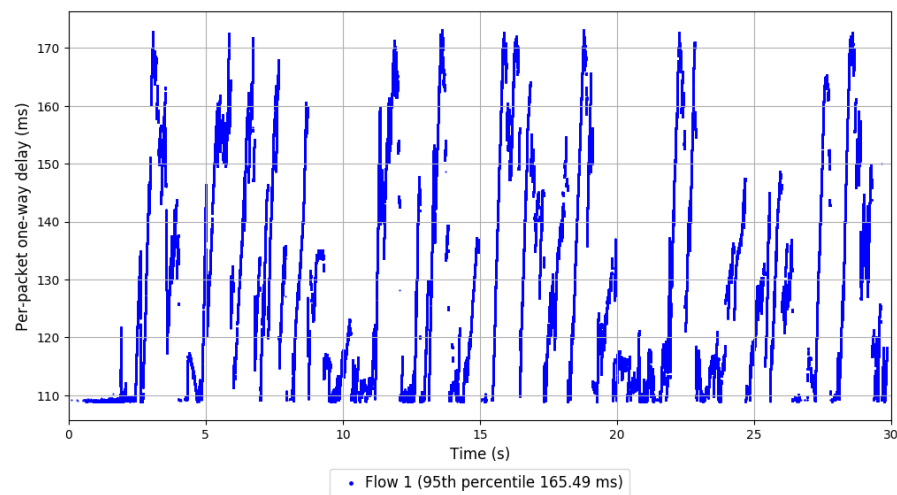
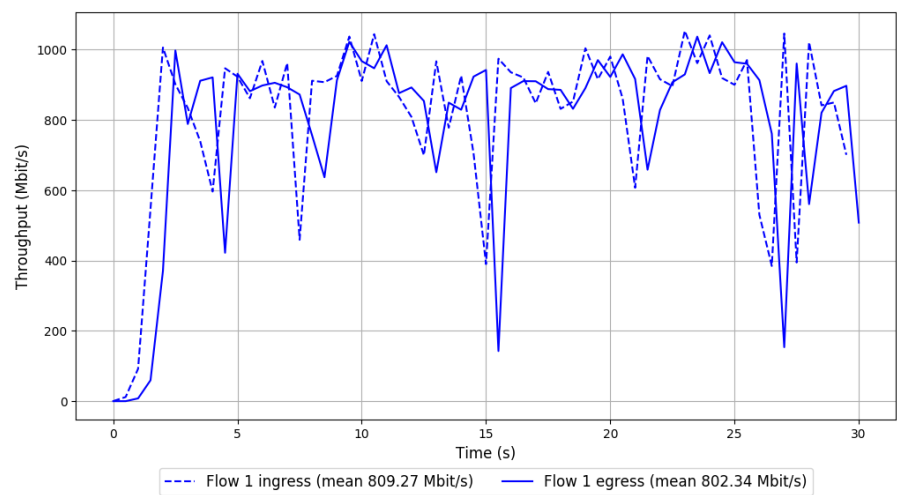


Run 2: Statistics of FillP

Start at: 2019-03-26 19:34:07
End at: 2019-03-26 19:34:37
Local clock offset: 20.786 ms
Remote clock offset: 22.028 ms

Below is generated by plot.py at 2019-03-26 22:10:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 802.34 Mbit/s
95th percentile per-packet one-way delay: 165.485 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 802.34 Mbit/s
95th percentile per-packet one-way delay: 165.485 ms
Loss rate: 1.58%

Run 2: Report of FillP — Data Link

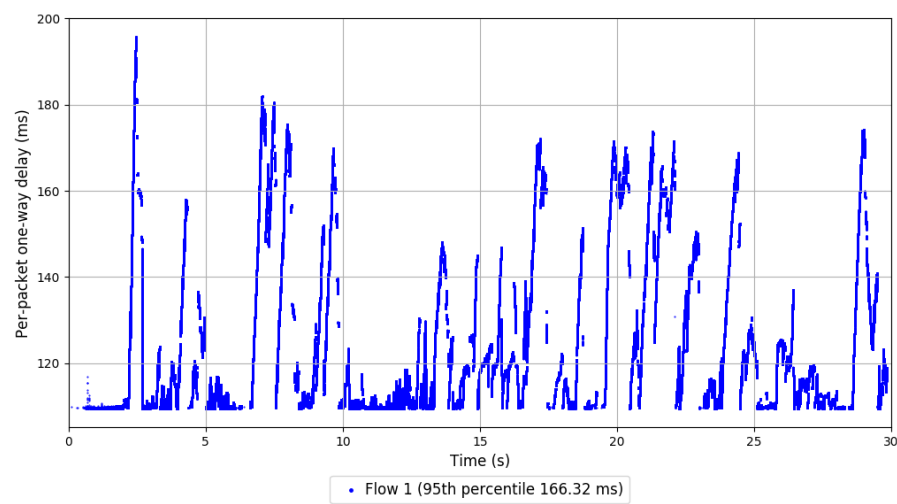
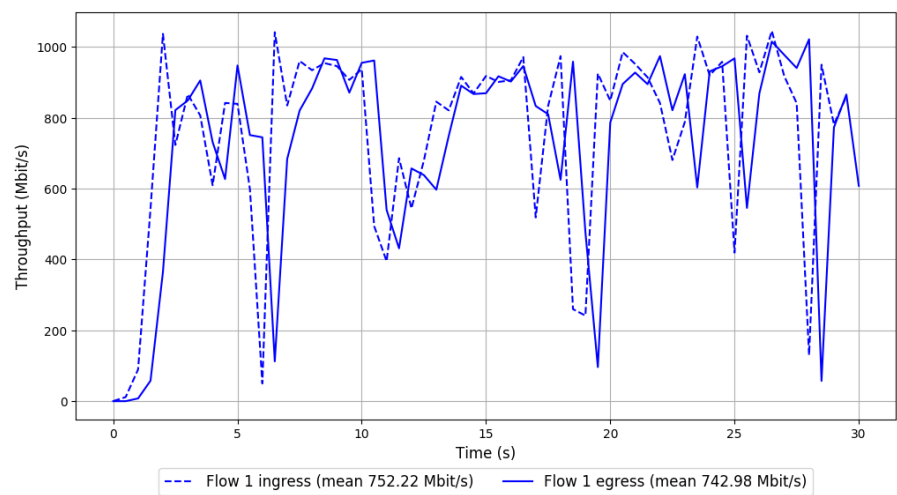


Run 3: Statistics of FillP

Start at: 2019-03-26 20:06:43
End at: 2019-03-26 20:07:13
Local clock offset: 12.225 ms
Remote clock offset: 12.362 ms

Below is generated by plot.py at 2019-03-26 22:10:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 742.98 Mbit/s
95th percentile per-packet one-way delay: 166.323 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 742.98 Mbit/s
95th percentile per-packet one-way delay: 166.323 ms
Loss rate: 1.95%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-03-26 20:38:47

End at: 2019-03-26 20:39:17

Local clock offset: 3.594 ms

Remote clock offset: 4.315 ms

Below is generated by plot.py at 2019-03-26 22:11:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 794.57 Mbit/s

95th percentile per-packet one-way delay: 124.109 ms

Loss rate: 0.93%

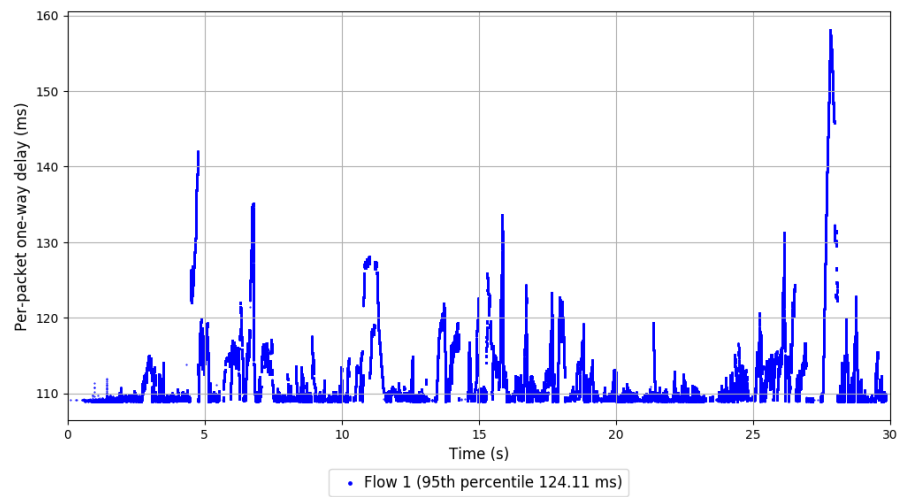
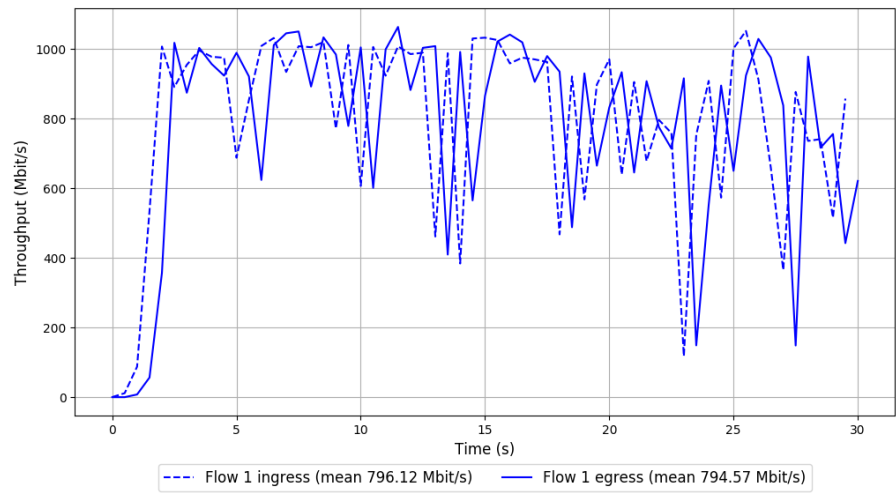
-- Flow 1:

Average throughput: 794.57 Mbit/s

95th percentile per-packet one-way delay: 124.109 ms

Loss rate: 0.93%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-03-26 21:11:35

End at: 2019-03-26 21:12:05

Local clock offset: 1.75 ms

Remote clock offset: 2.024 ms

Below is generated by plot.py at 2019-03-26 22:11:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 772.84 Mbit/s

95th percentile per-packet one-way delay: 169.526 ms

Loss rate: 2.50%

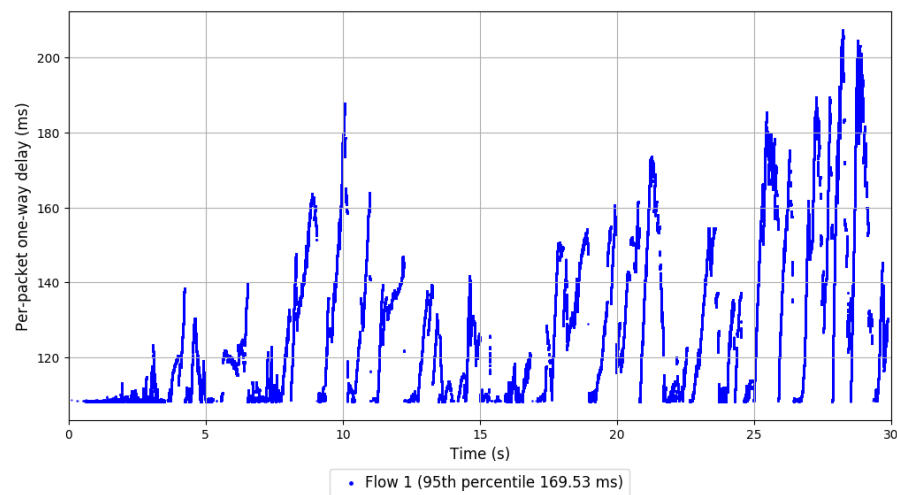
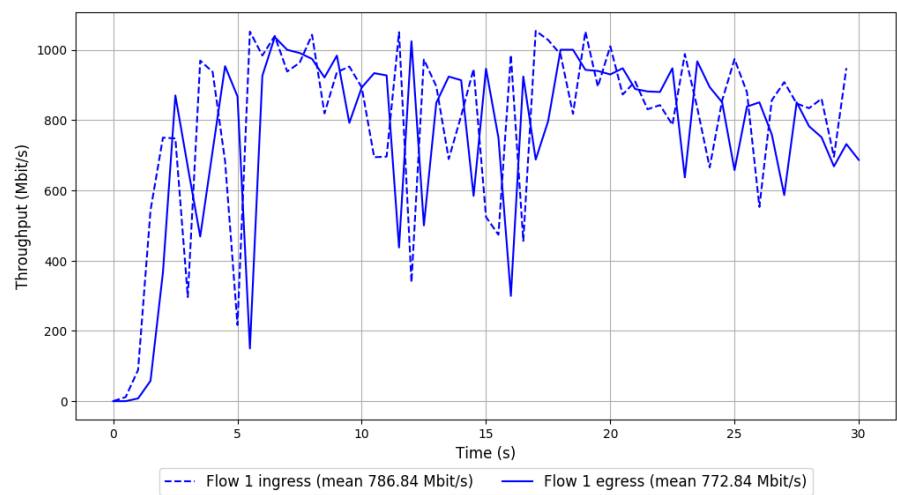
-- Flow 1:

Average throughput: 772.84 Mbit/s

95th percentile per-packet one-way delay: 169.526 ms

Loss rate: 2.50%

Run 5: Report of FillP — Data Link

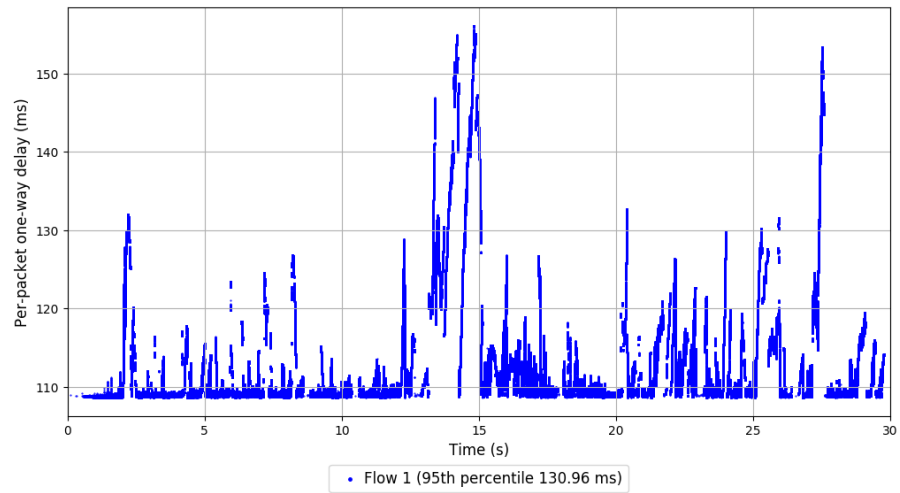
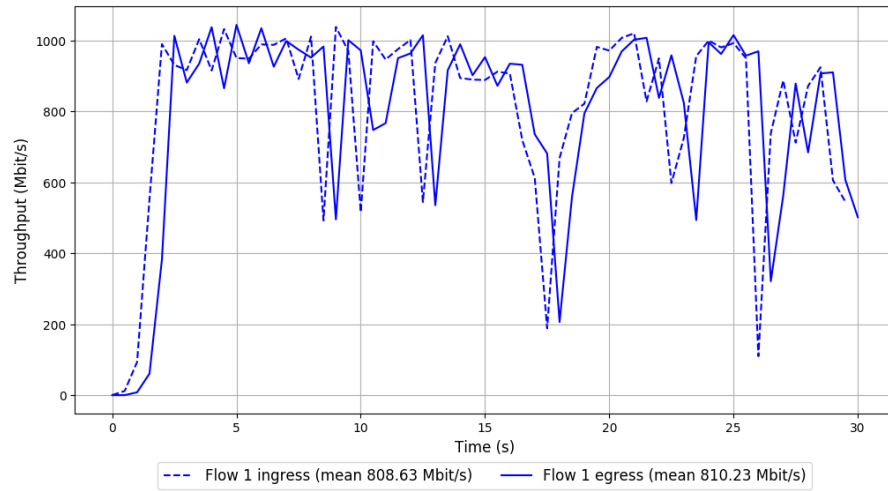


Run 1: Statistics of FillP-Sheep

Start at: 2019-03-26 19:12:25
End at: 2019-03-26 19:12:55
Local clock offset: 15.89 ms
Remote clock offset: 17.327 ms

Below is generated by plot.py at 2019-03-26 22:11:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 810.23 Mbit/s
95th percentile per-packet one-way delay: 130.956 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 810.23 Mbit/s
95th percentile per-packet one-way delay: 130.956 ms
Loss rate: 0.49%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-03-26 19:44:59

End at: 2019-03-26 19:45:29

Local clock offset: 30.035 ms

Remote clock offset: 31.65 ms

Below is generated by plot.py at 2019-03-26 22:12:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 824.18 Mbit/s

95th percentile per-packet one-way delay: 165.576 ms

Loss rate: 1.48%

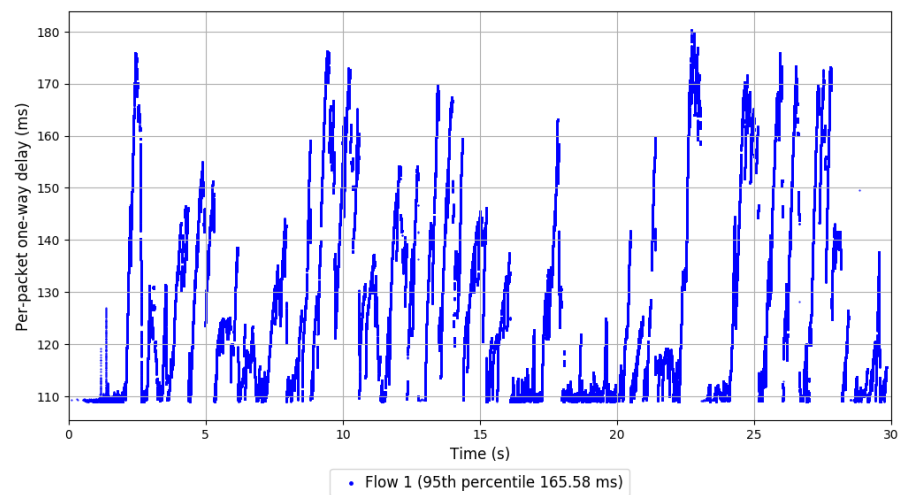
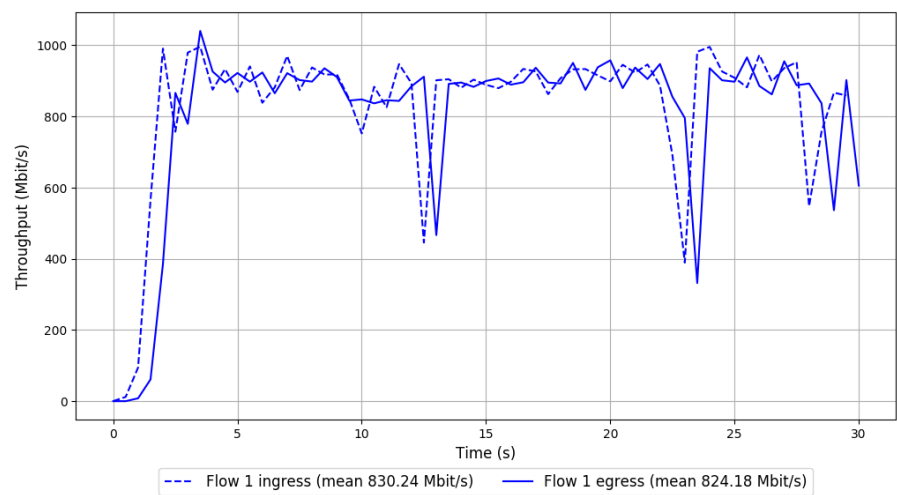
-- Flow 1:

Average throughput: 824.18 Mbit/s

95th percentile per-packet one-way delay: 165.576 ms

Loss rate: 1.48%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-03-26 20:17:16

End at: 2019-03-26 20:17:46

Local clock offset: 8.719 ms

Remote clock offset: 9.134 ms

Below is generated by plot.py at 2019-03-26 22:12:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 773.81 Mbit/s

95th percentile per-packet one-way delay: 167.764 ms

Loss rate: 1.79%

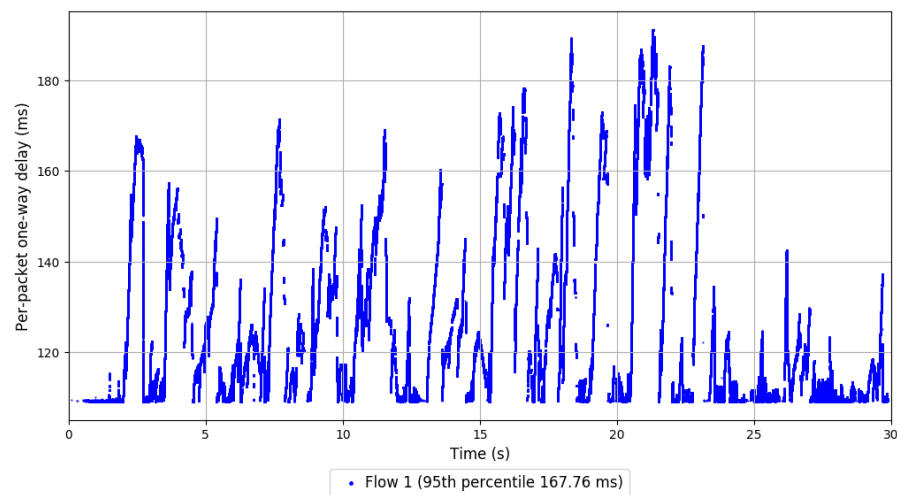
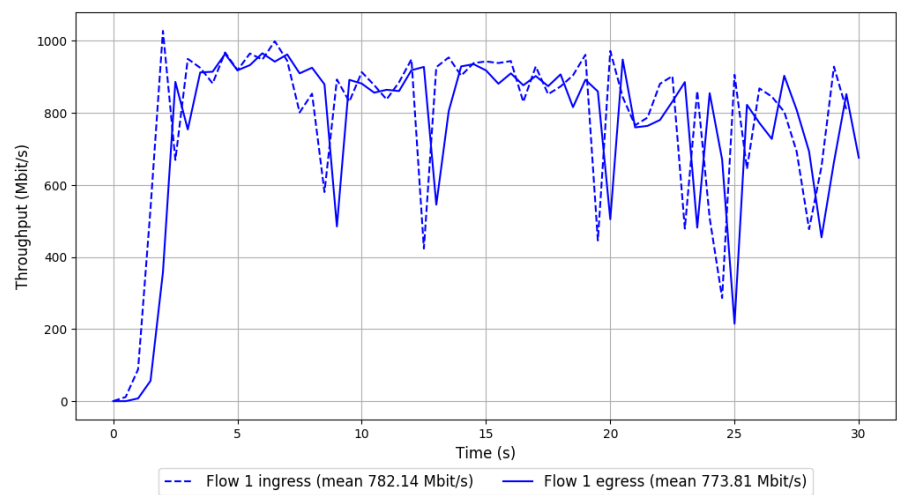
-- Flow 1:

Average throughput: 773.81 Mbit/s

95th percentile per-packet one-way delay: 167.764 ms

Loss rate: 1.79%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-03-26 20:49:45

End at: 2019-03-26 20:50:15

Local clock offset: 3.374 ms

Remote clock offset: 3.667 ms

Below is generated by plot.py at 2019-03-26 22:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 775.58 Mbit/s

95th percentile per-packet one-way delay: 142.743 ms

Loss rate: 1.35%

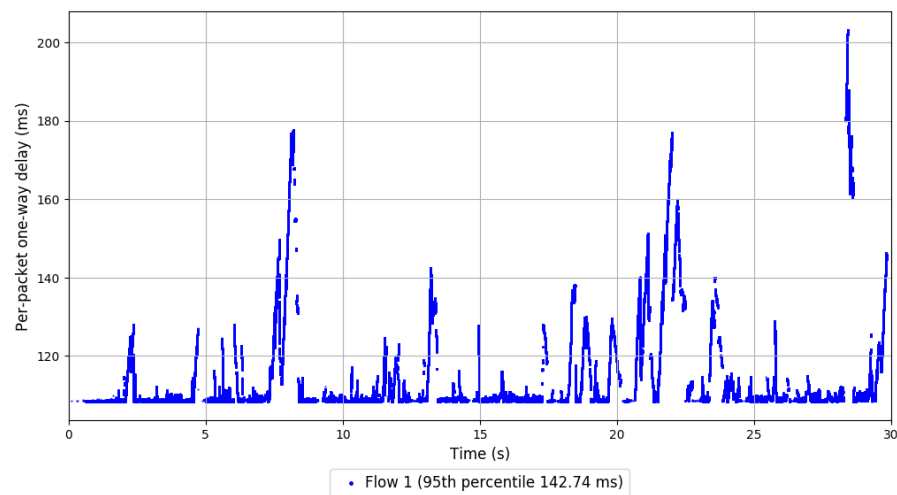
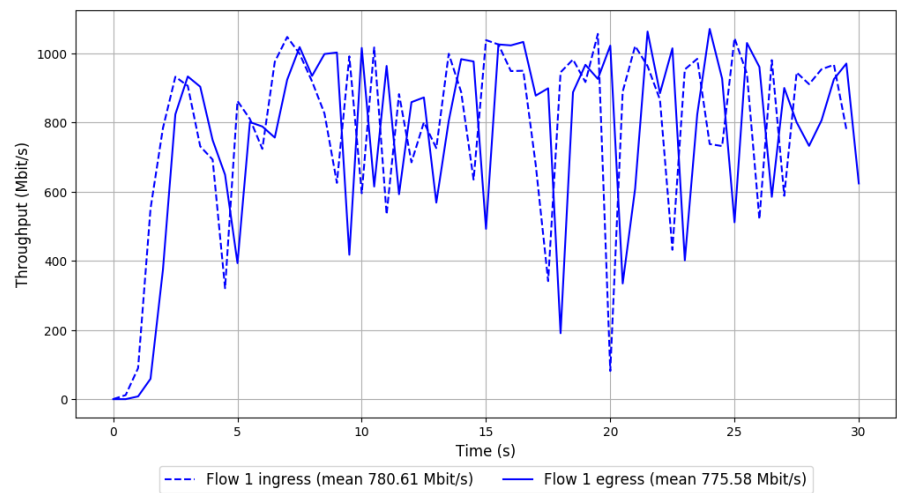
-- Flow 1:

Average throughput: 775.58 Mbit/s

95th percentile per-packet one-way delay: 142.743 ms

Loss rate: 1.35%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-03-26 21:22:11

End at: 2019-03-26 21:22:41

Local clock offset: 1.184 ms

Remote clock offset: 1.581 ms

Below is generated by plot.py at 2019-03-26 22:27:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 799.03 Mbit/s

95th percentile per-packet one-way delay: 173.405 ms

Loss rate: 2.67%

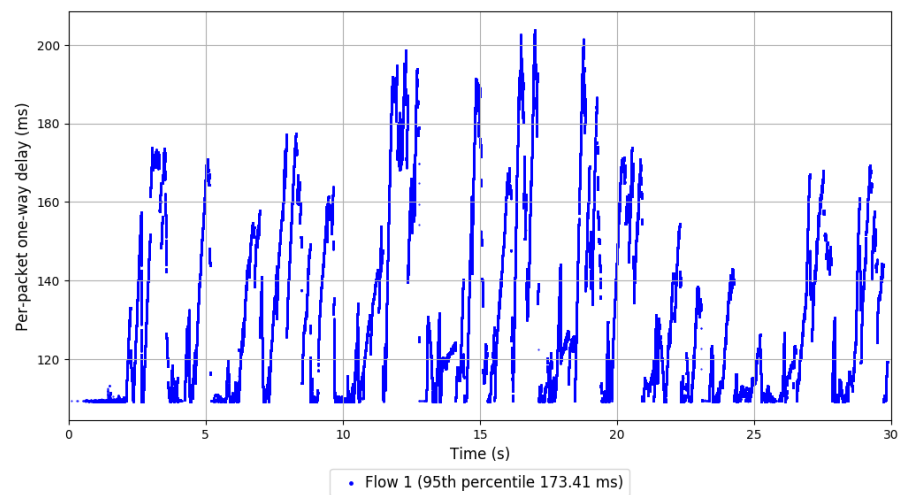
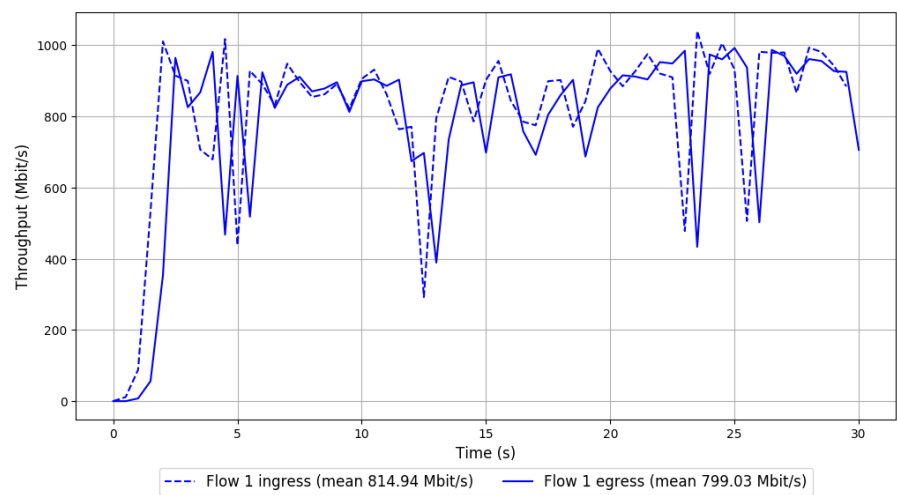
-- Flow 1:

Average throughput: 799.03 Mbit/s

95th percentile per-packet one-way delay: 173.405 ms

Loss rate: 2.67%

Run 5: Report of FillP-Sheep — Data Link

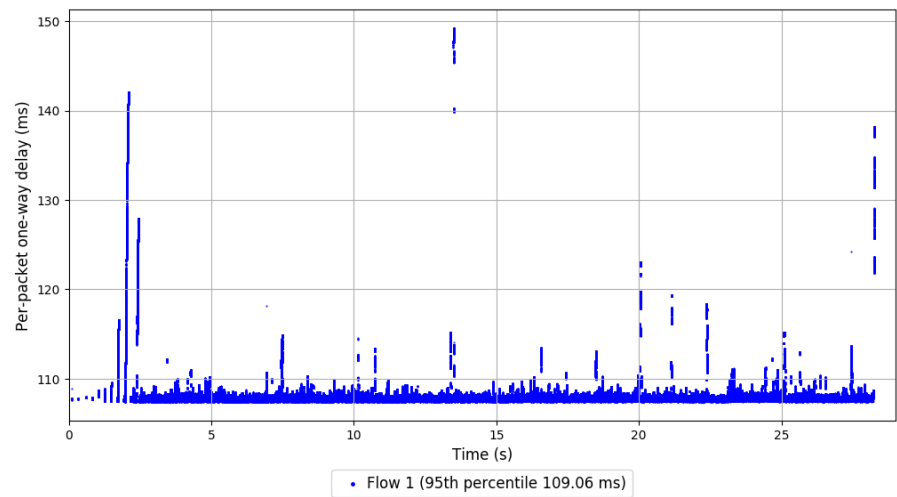
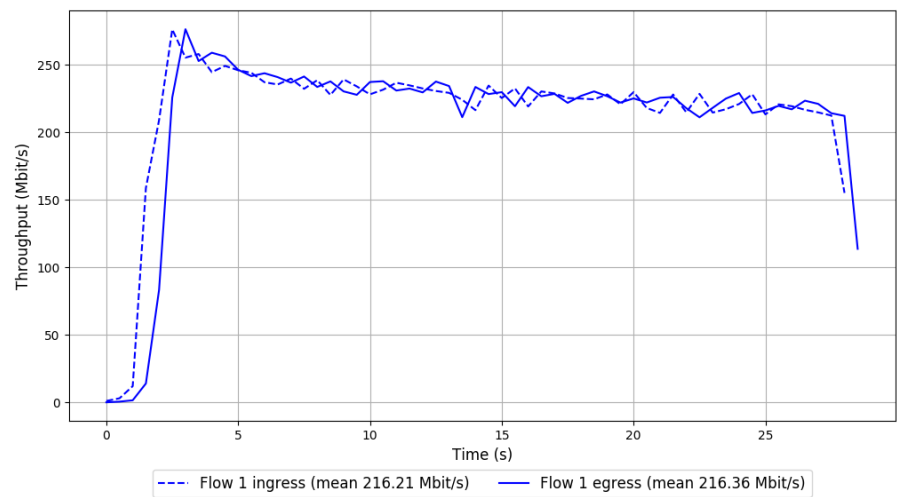


Run 1: Statistics of Indigo

Start at: 2019-03-26 18:59:08
End at: 2019-03-26 18:59:39
Local clock offset: 10.589 ms
Remote clock offset: 12.084 ms

Below is generated by plot.py at 2019-03-26 22:27:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 216.36 Mbit/s
95th percentile per-packet one-way delay: 109.061 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 216.36 Mbit/s
95th percentile per-packet one-way delay: 109.061 ms
Loss rate: 0.70%

Run 1: Report of Indigo — Data Link

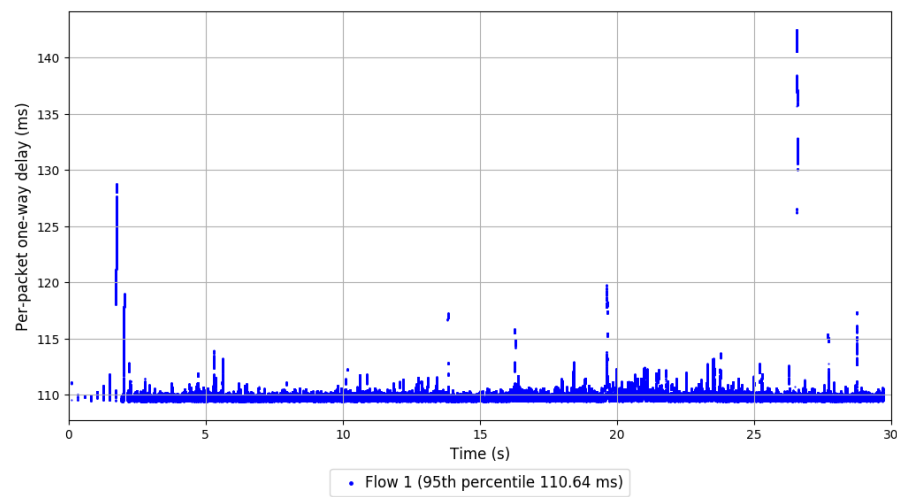
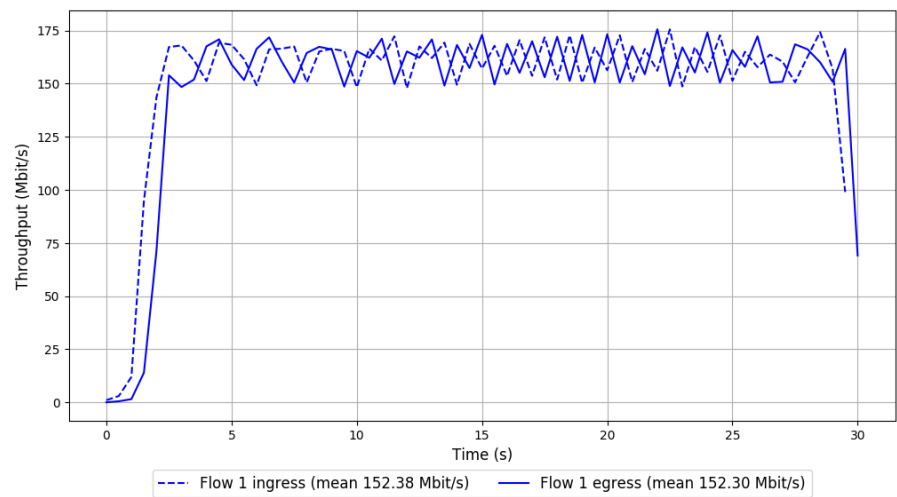


Run 2: Statistics of Indigo

Start at: 2019-03-26 19:31:26
End at: 2019-03-26 19:31:56
Local clock offset: 19.698 ms
Remote clock offset: 20.688 ms

Below is generated by plot.py at 2019-03-26 22:27:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 152.30 Mbit/s
95th percentile per-packet one-way delay: 110.642 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 152.30 Mbit/s
95th percentile per-packet one-way delay: 110.642 ms
Loss rate: 0.79%

Run 2: Report of Indigo — Data Link

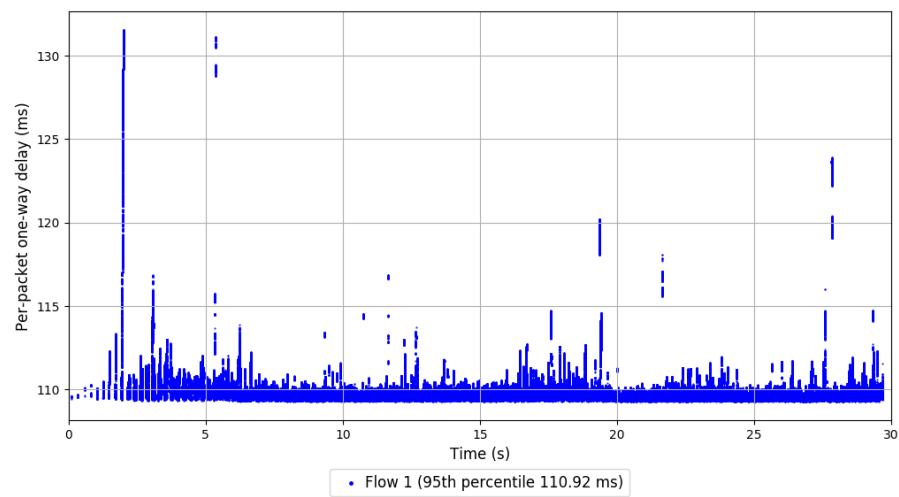
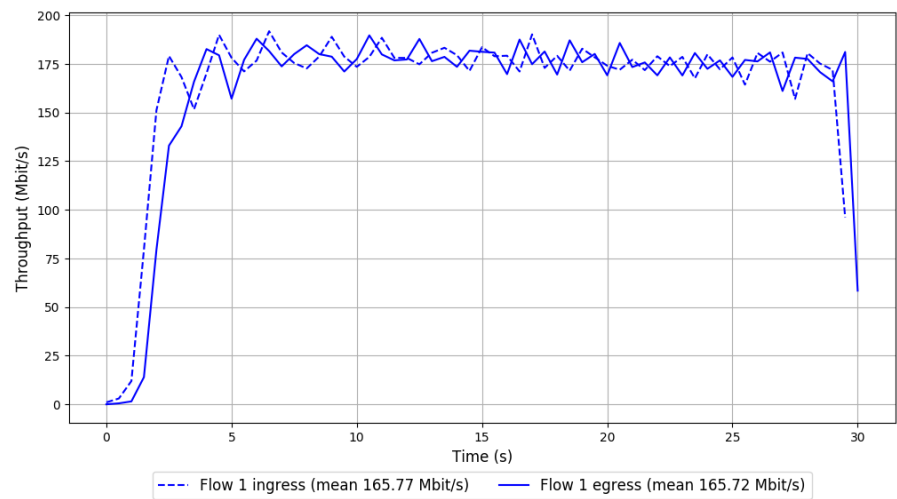


Run 3: Statistics of Indigo

Start at: 2019-03-26 20:04:06
End at: 2019-03-26 20:04:36
Local clock offset: 14.204 ms
Remote clock offset: 14.834 ms

Below is generated by plot.py at 2019-03-26 22:27:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 165.72 Mbit/s
95th percentile per-packet one-way delay: 110.921 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 165.72 Mbit/s
95th percentile per-packet one-way delay: 110.921 ms
Loss rate: 0.76%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-03-26 20:36:08

End at: 2019-03-26 20:36:38

Local clock offset: 4.115 ms

Remote clock offset: 4.992 ms

Below is generated by plot.py at 2019-03-26 22:27:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.91 Mbit/s

95th percentile per-packet one-way delay: 111.781 ms

Loss rate: 0.79%

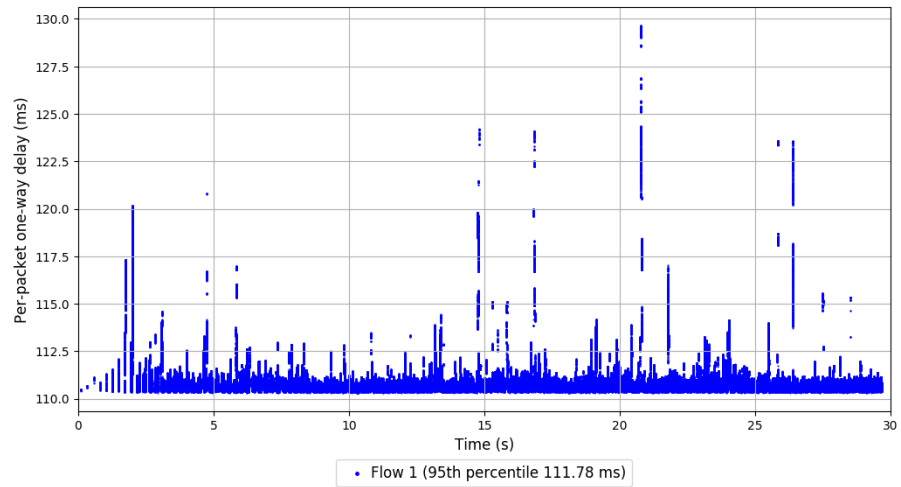
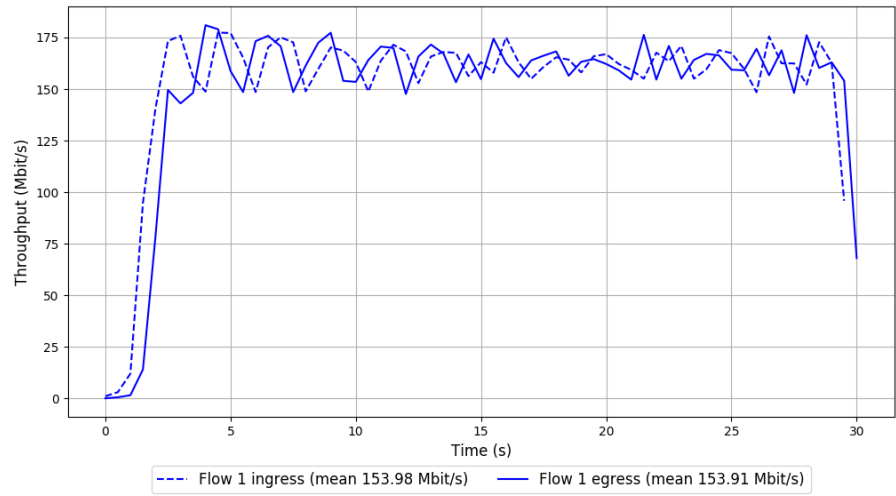
-- Flow 1:

Average throughput: 153.91 Mbit/s

95th percentile per-packet one-way delay: 111.781 ms

Loss rate: 0.79%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-03-26 21:08:59

End at: 2019-03-26 21:09:29

Local clock offset: 2.208 ms

Remote clock offset: 2.461 ms

Below is generated by plot.py at 2019-03-26 22:27:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.48 Mbit/s

95th percentile per-packet one-way delay: 110.606 ms

Loss rate: 0.76%

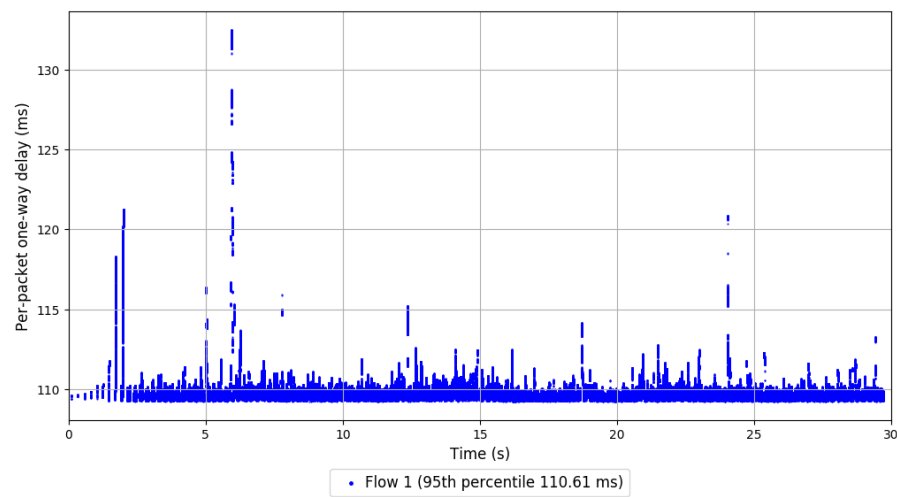
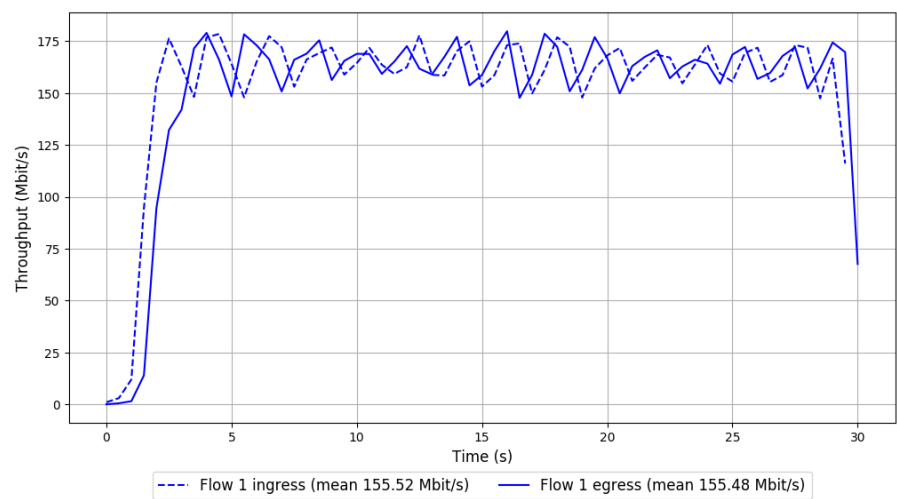
-- Flow 1:

Average throughput: 155.48 Mbit/s

95th percentile per-packet one-way delay: 110.606 ms

Loss rate: 0.76%

Run 5: Report of Indigo — Data Link

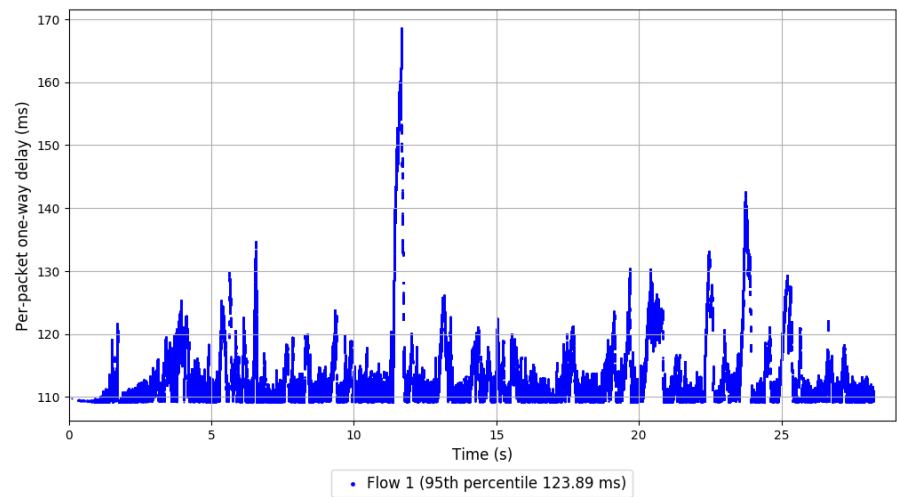
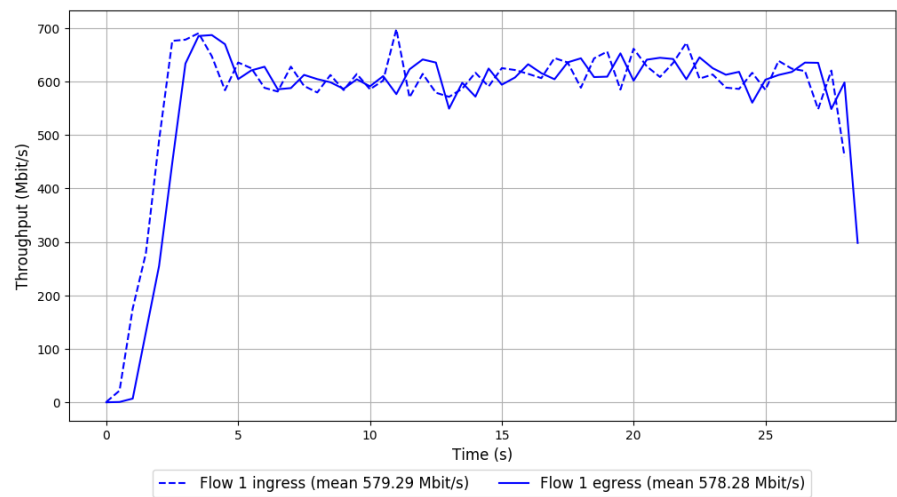


```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-26 19:06:26
End at: 2019-03-26 19:06:56
Local clock offset: 12.701 ms
Remote clock offset: 13.328 ms

# Below is generated by plot.py at 2019-03-26 22:27:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 578.28 Mbit/s
95th percentile per-packet one-way delay: 123.892 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 578.28 Mbit/s
95th percentile per-packet one-way delay: 123.892 ms
Loss rate: 0.95%
```

Run 1: Report of Indigo-MusesC3 — Data Link

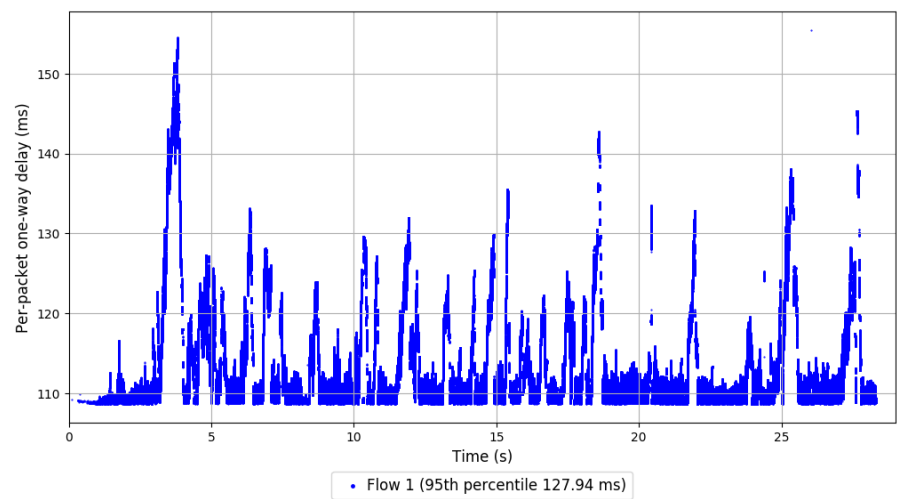
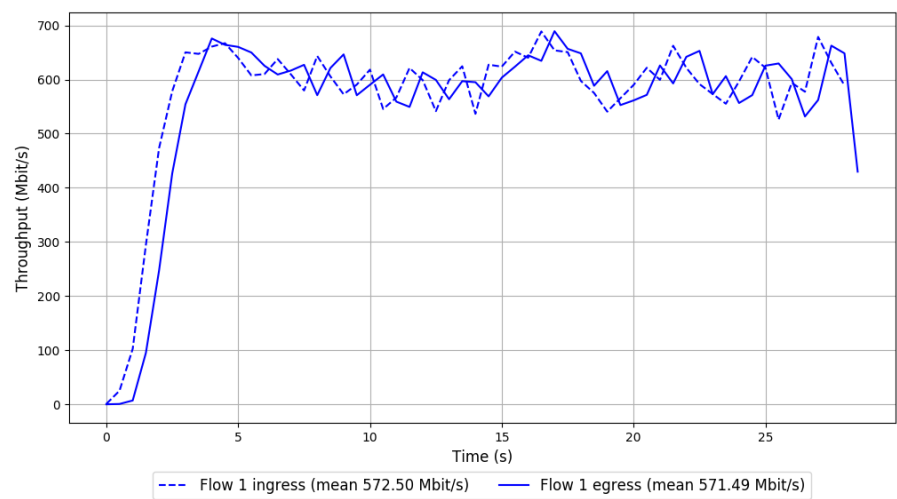


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-26 19:39:02
End at: 2019-03-26 19:39:32
Local clock offset: 24.05 ms
Remote clock offset: 25.725 ms

Below is generated by plot.py at 2019-03-26 22:27:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 571.49 Mbit/s
95th percentile per-packet one-way delay: 127.943 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 571.49 Mbit/s
95th percentile per-packet one-way delay: 127.943 ms
Loss rate: 0.94%

Run 2: Report of Indigo-MusesC3 — Data Link

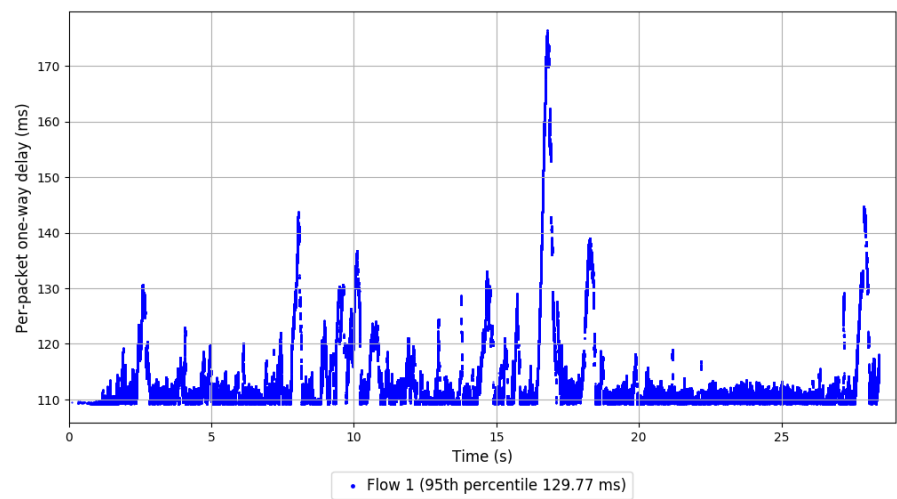
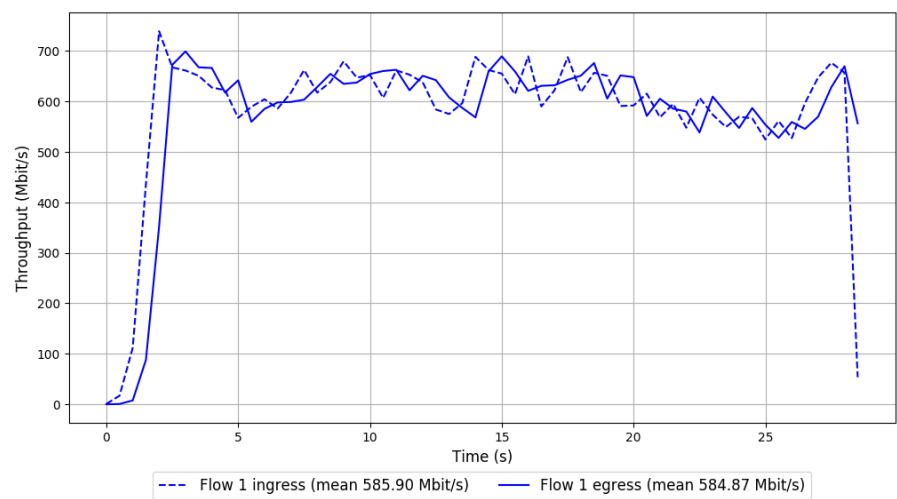


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-26 20:11:15
End at: 2019-03-26 20:11:45
Local clock offset: 9.744 ms
Remote clock offset: 10.064 ms

Below is generated by plot.py at 2019-03-26 22:27:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 584.87 Mbit/s
95th percentile per-packet one-way delay: 129.769 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 584.87 Mbit/s
95th percentile per-packet one-way delay: 129.769 ms
Loss rate: 0.94%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-26 20:43:37

End at: 2019-03-26 20:44:07

Local clock offset: 3.268 ms

Remote clock offset: 3.7 ms

Below is generated by plot.py at 2019-03-26 22:27:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.50 Mbit/s

95th percentile per-packet one-way delay: 144.406 ms

Loss rate: 0.80%

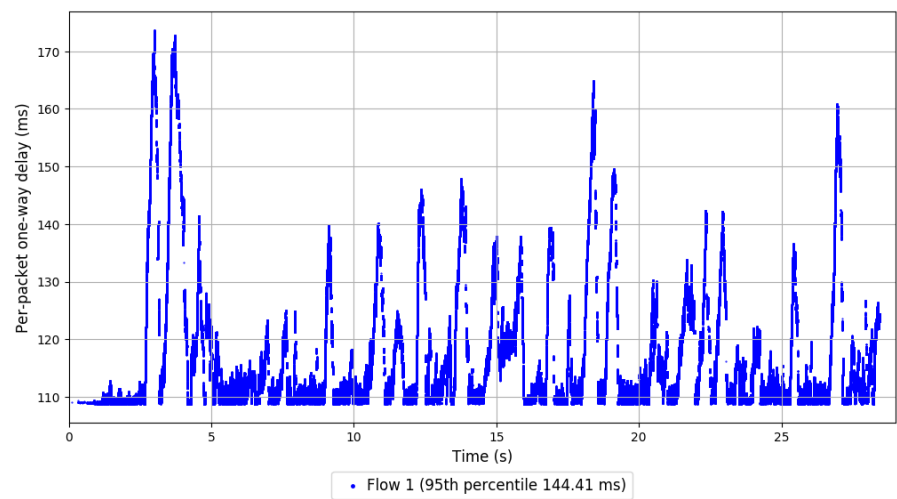
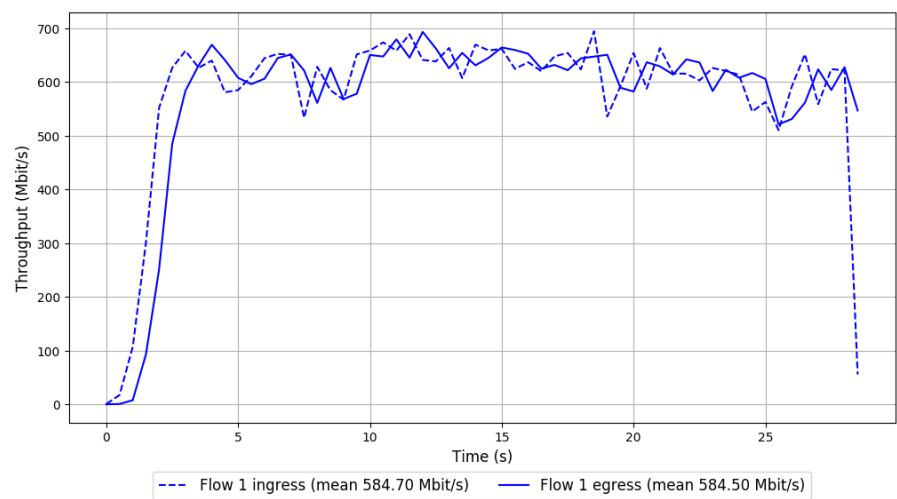
-- Flow 1:

Average throughput: 584.50 Mbit/s

95th percentile per-packet one-way delay: 144.406 ms

Loss rate: 0.80%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-26 21:16:10

End at: 2019-03-26 21:16:40

Local clock offset: 1.419 ms

Remote clock offset: 1.66 ms

Below is generated by plot.py at 2019-03-26 22:27:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 572.94 Mbit/s

95th percentile per-packet one-way delay: 135.141 ms

Loss rate: 0.89%

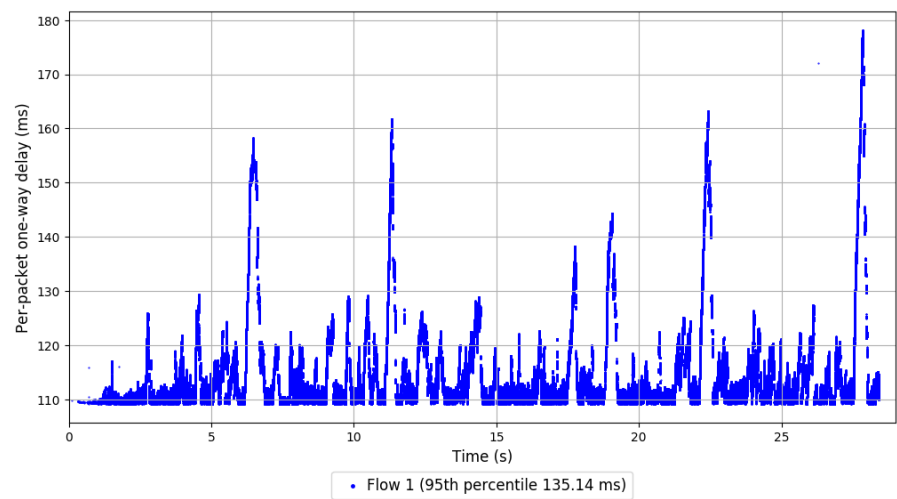
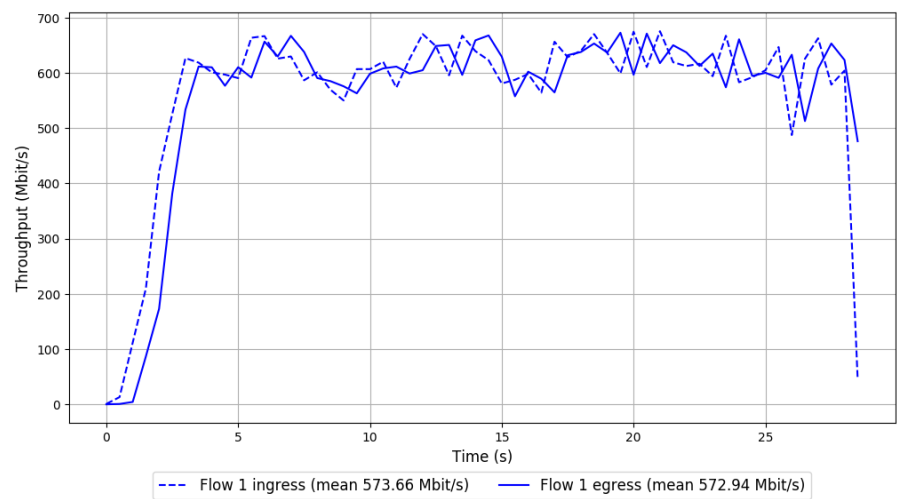
-- Flow 1:

Average throughput: 572.94 Mbit/s

95th percentile per-packet one-way delay: 135.141 ms

Loss rate: 0.89%

Run 5: Report of Indigo-MusesC3 — Data Link

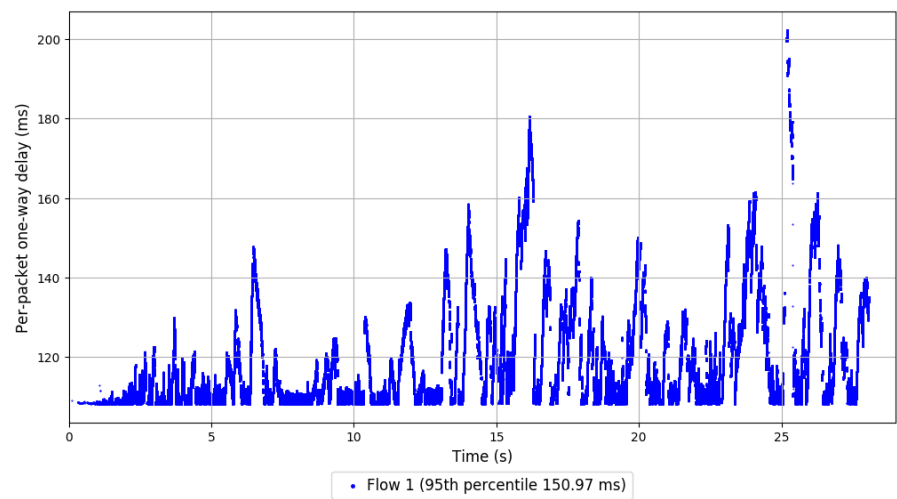
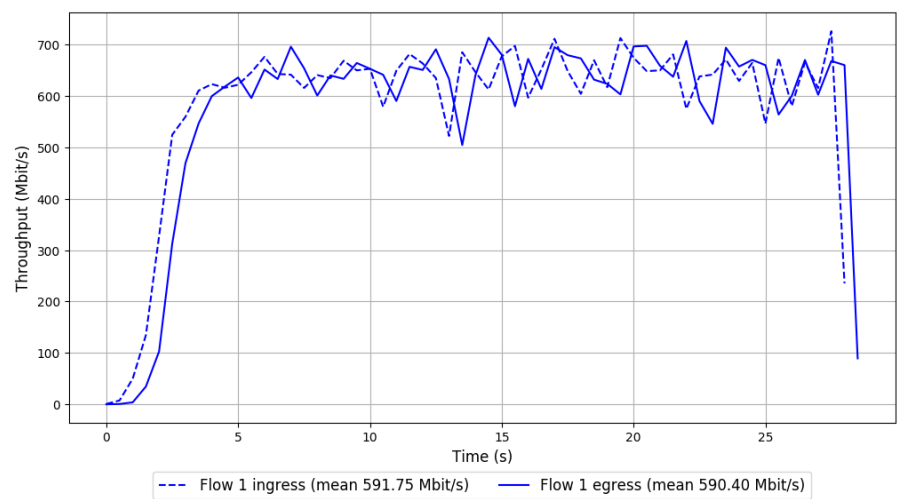


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-26 19:04:46
End at: 2019-03-26 19:05:16
Local clock offset: 13.72 ms
Remote clock offset: 14.526 ms

Below is generated by plot.py at 2019-03-26 22:28:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 590.40 Mbit/s
95th percentile per-packet one-way delay: 150.971 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 590.40 Mbit/s
95th percentile per-packet one-way delay: 150.971 ms
Loss rate: 1.00%

Run 1: Report of Indigo-MusesC5 — Data Link

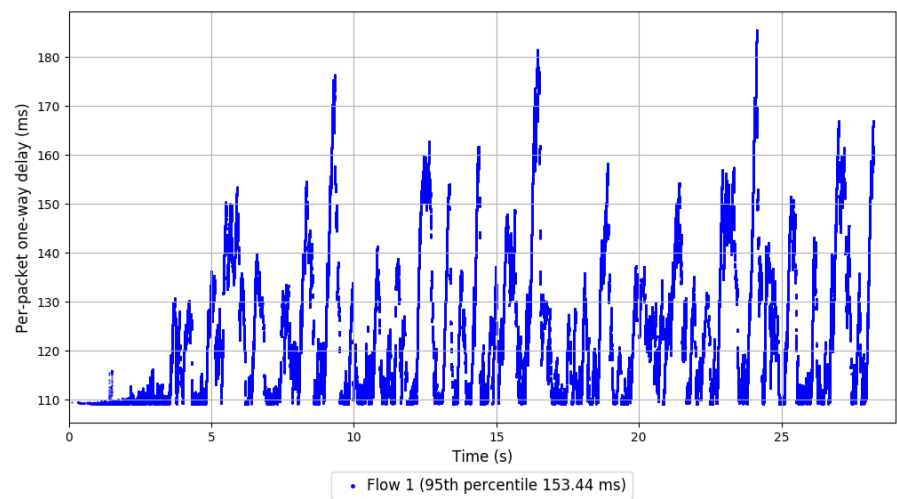
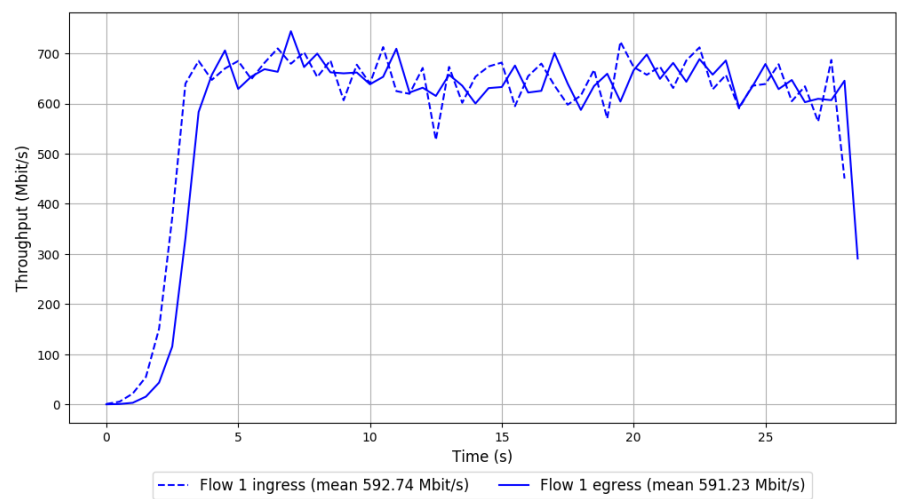


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-26 19:37:20
End at: 2019-03-26 19:37:50
Local clock offset: 23.027 ms
Remote clock offset: 24.194 ms

Below is generated by plot.py at 2019-03-26 22:33:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 591.23 Mbit/s
95th percentile per-packet one-way delay: 153.441 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 591.23 Mbit/s
95th percentile per-packet one-way delay: 153.441 ms
Loss rate: 1.03%

Run 2: Report of Indigo-MusesC5 — Data Link

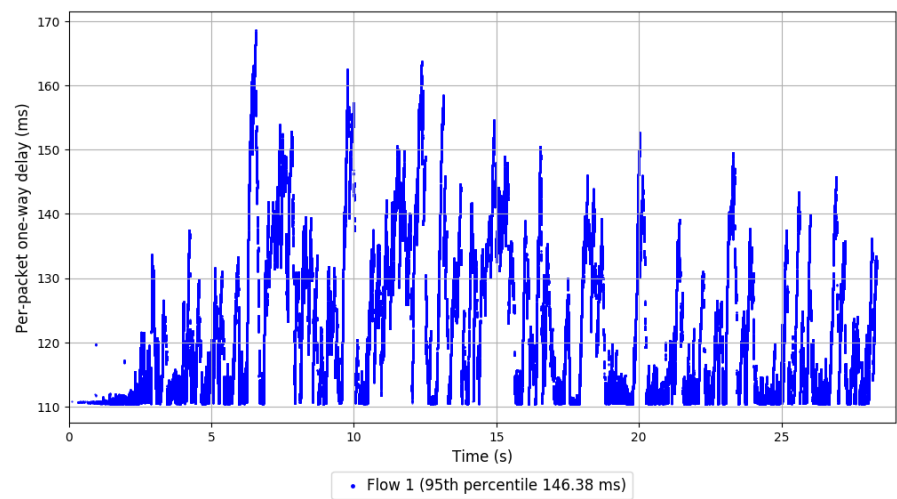
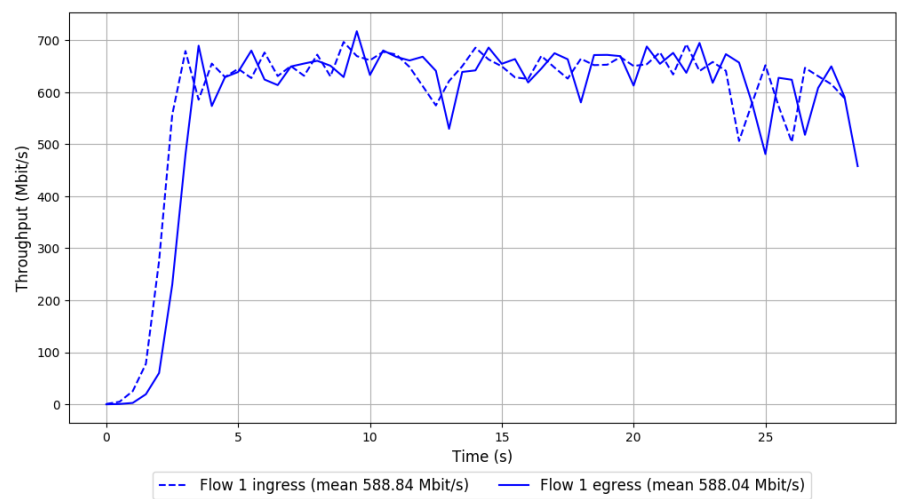


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-26 20:09:35
End at: 2019-03-26 20:10:05
Local clock offset: 10.352 ms
Remote clock offset: 10.755 ms

Below is generated by plot.py at 2019-03-26 22:33:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 588.04 Mbit/s
95th percentile per-packet one-way delay: 146.382 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 588.04 Mbit/s
95th percentile per-packet one-way delay: 146.382 ms
Loss rate: 0.90%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-26 20:41:57

End at: 2019-03-26 20:42:27

Local clock offset: 3.655 ms

Remote clock offset: 3.472 ms

Below is generated by plot.py at 2019-03-26 22:36:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 579.01 Mbit/s

95th percentile per-packet one-way delay: 170.502 ms

Loss rate: 1.07%

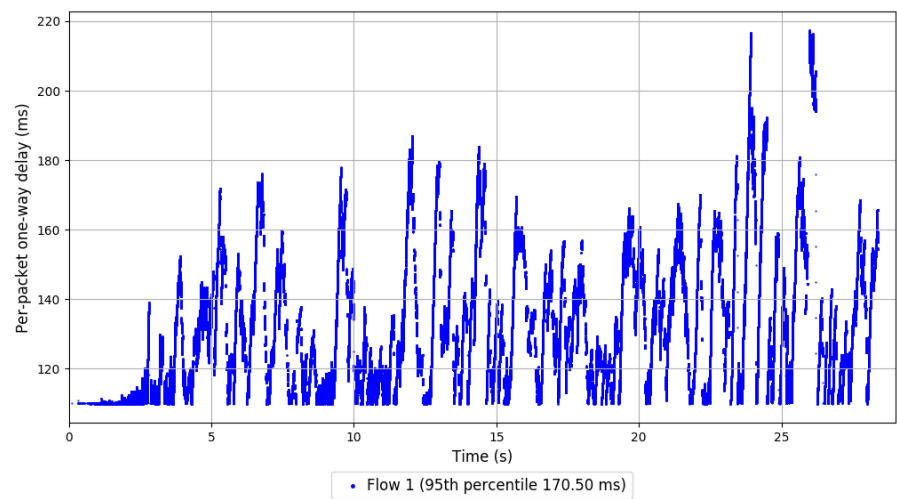
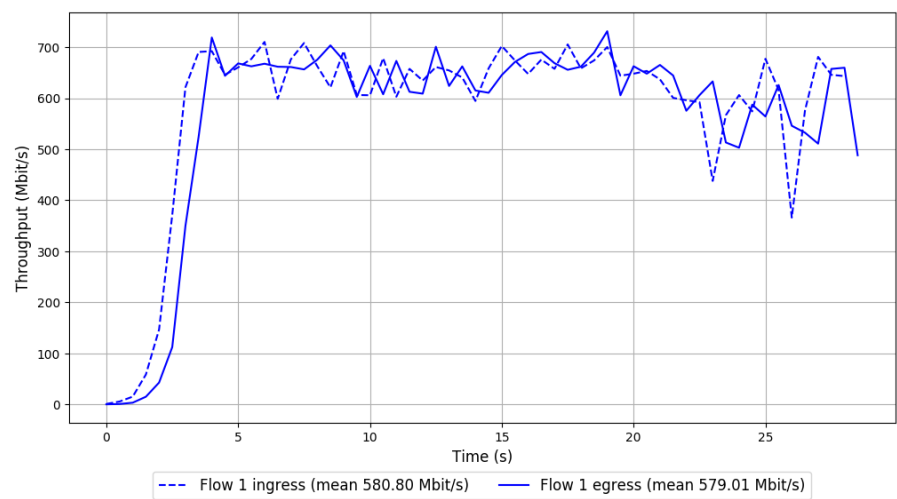
-- Flow 1:

Average throughput: 579.01 Mbit/s

95th percentile per-packet one-way delay: 170.502 ms

Loss rate: 1.07%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-26 21:14:29

End at: 2019-03-26 21:15:00

Local clock offset: 1.579 ms

Remote clock offset: 1.757 ms

Below is generated by plot.py at 2019-03-26 22:37:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 590.42 Mbit/s

95th percentile per-packet one-way delay: 163.616 ms

Loss rate: 1.09%

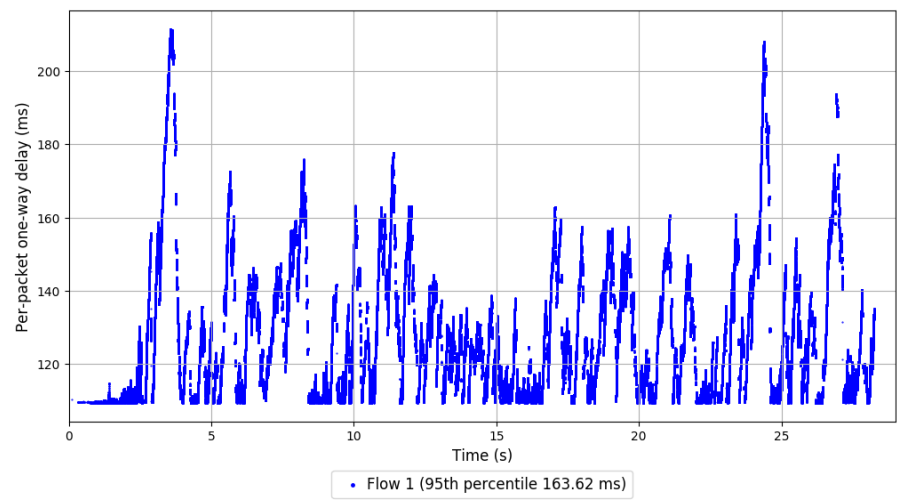
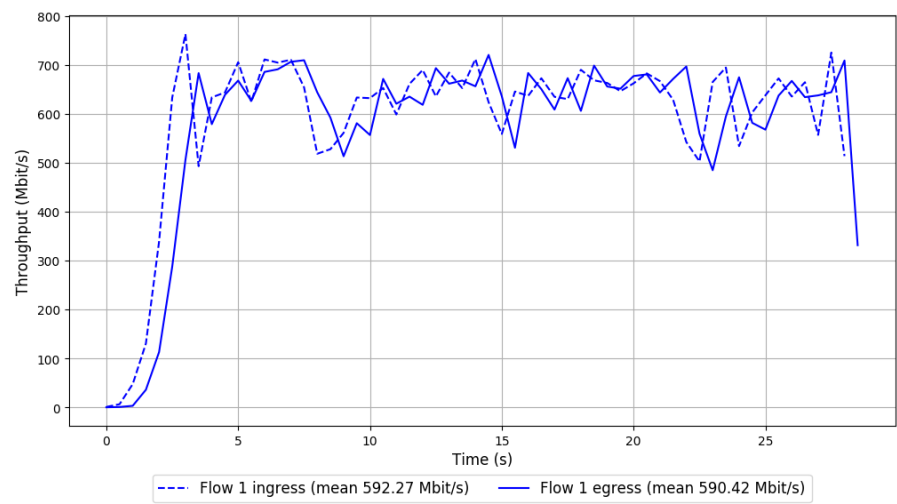
-- Flow 1:

Average throughput: 590.42 Mbit/s

95th percentile per-packet one-way delay: 163.616 ms

Loss rate: 1.09%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-26 18:56:18

End at: 2019-03-26 18:56:48

Local clock offset: 8.455 ms

Remote clock offset: 8.507 ms

Below is generated by plot.py at 2019-03-26 22:37:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 553.79 Mbit/s

95th percentile per-packet one-way delay: 147.174 ms

Loss rate: 0.73%

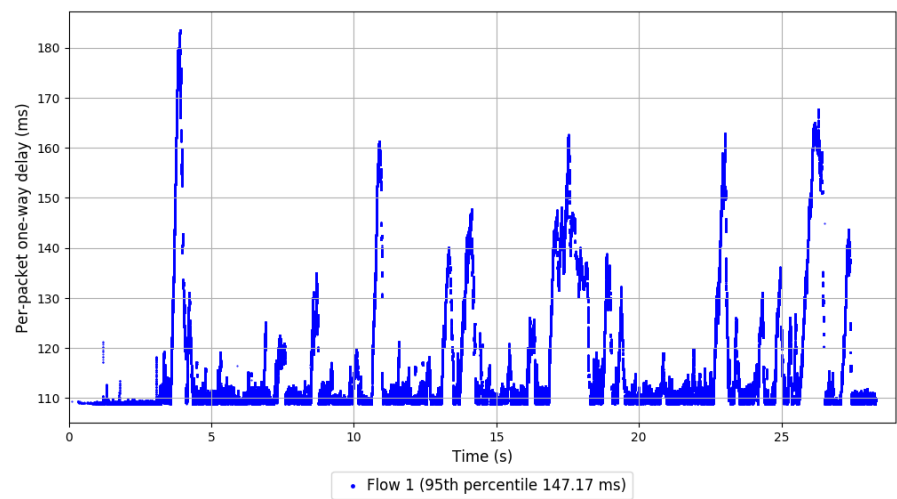
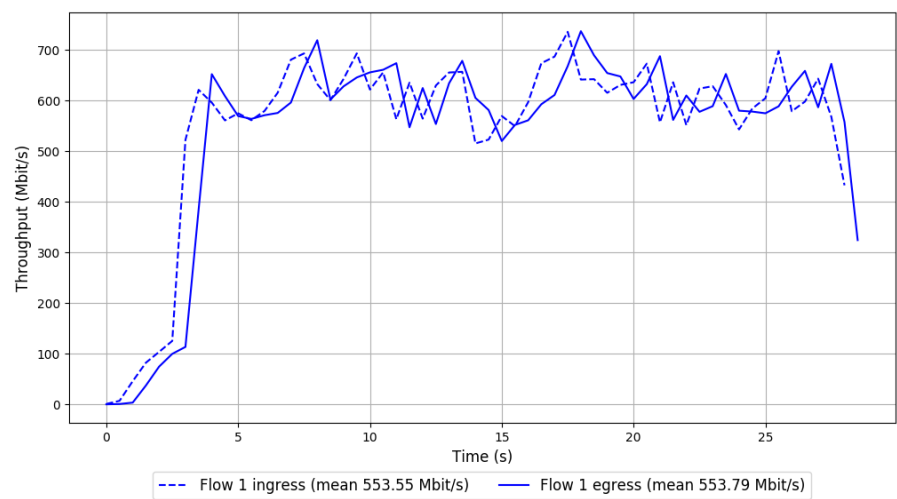
-- Flow 1:

Average throughput: 553.79 Mbit/s

95th percentile per-packet one-way delay: 147.174 ms

Loss rate: 0.73%

Run 1: Report of Indigo-MusesD — Data Link

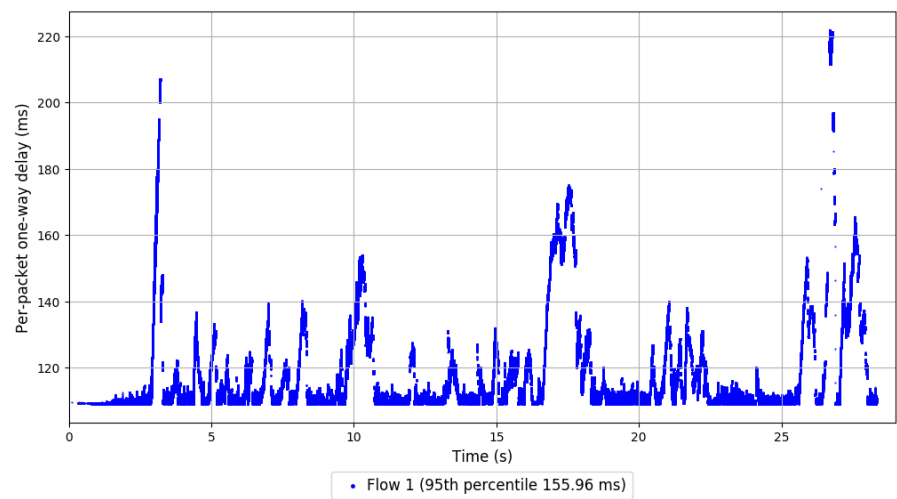
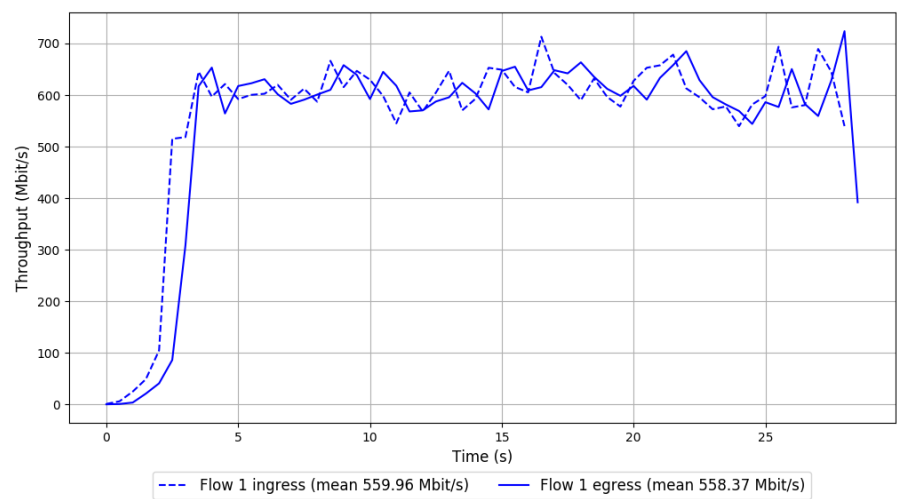


Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-26 19:28:29
End at: 2019-03-26 19:28:59
Local clock offset: 18.893 ms
Remote clock offset: 19.934 ms

Below is generated by plot.py at 2019-03-26 22:37:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 558.37 Mbit/s
95th percentile per-packet one-way delay: 155.957 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 558.37 Mbit/s
95th percentile per-packet one-way delay: 155.957 ms
Loss rate: 1.05%

Run 2: Report of Indigo-MusesD — Data Link

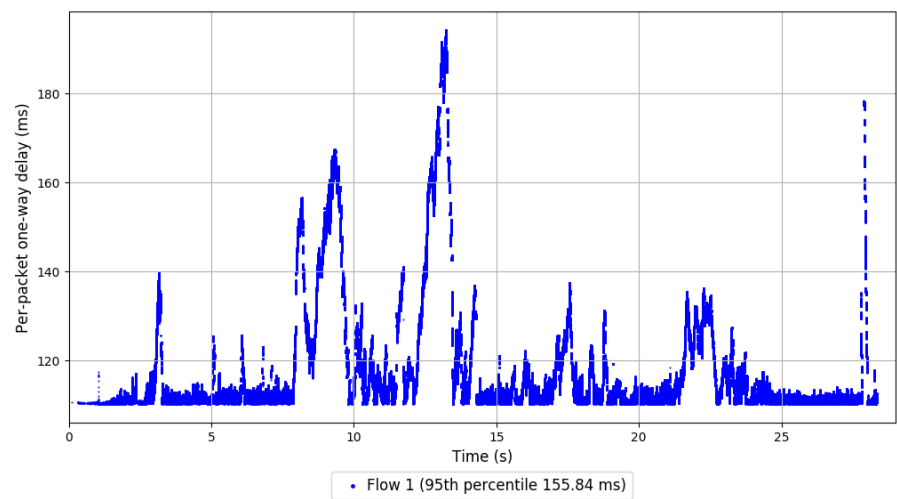
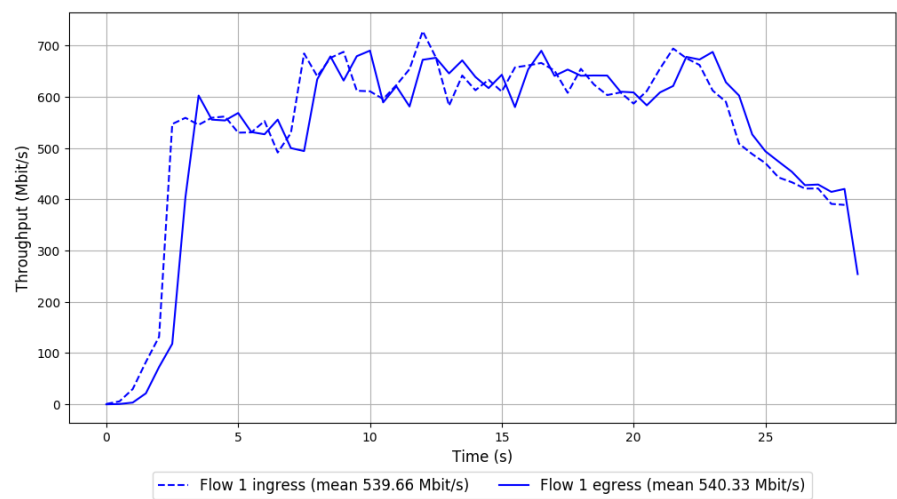


Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-26 20:01:17
End at: 2019-03-26 20:01:47
Local clock offset: 18.927 ms
Remote clock offset: 18.661 ms

Below is generated by plot.py at 2019-03-26 22:37:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 540.33 Mbit/s
95th percentile per-packet one-way delay: 155.841 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 540.33 Mbit/s
95th percentile per-packet one-way delay: 155.841 ms
Loss rate: 0.65%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-26 20:33:13

End at: 2019-03-26 20:33:43

Local clock offset: 5.798 ms

Remote clock offset: 6.109 ms

Below is generated by plot.py at 2019-03-26 22:37:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 448.28 Mbit/s

95th percentile per-packet one-way delay: 158.756 ms

Loss rate: 1.13%

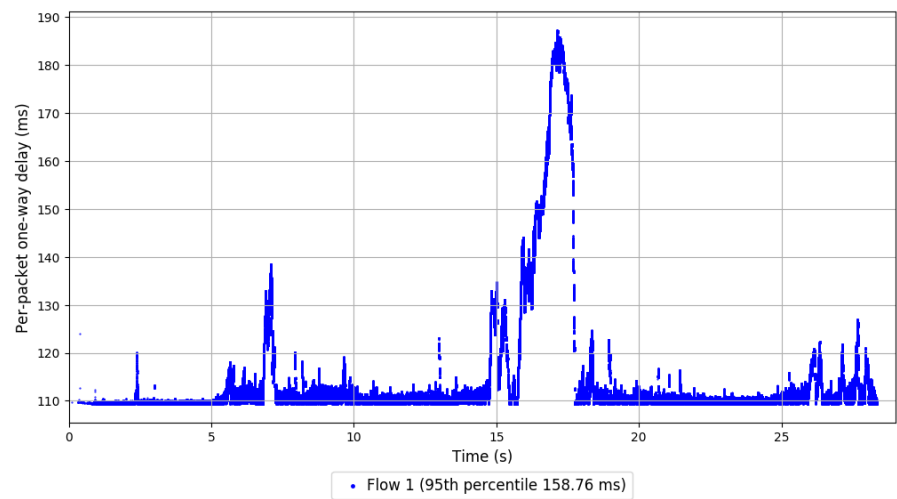
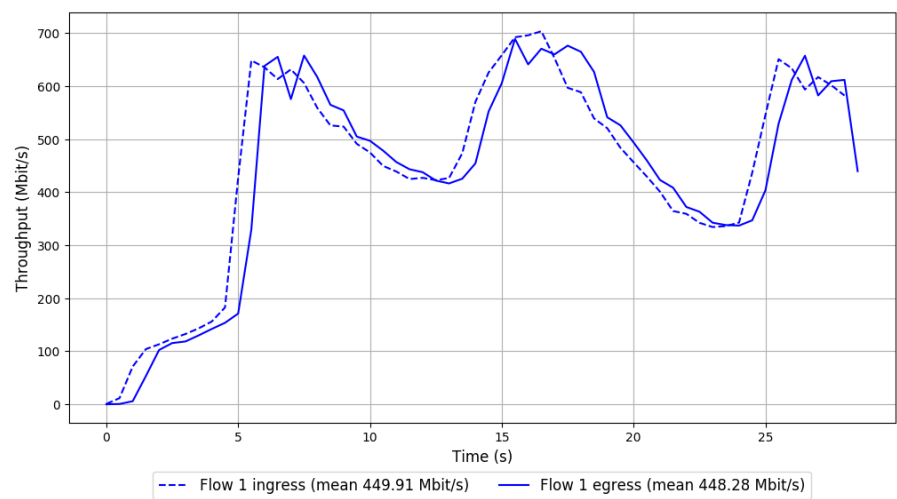
-- Flow 1:

Average throughput: 448.28 Mbit/s

95th percentile per-packet one-way delay: 158.756 ms

Loss rate: 1.13%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-26 21:06:13

End at: 2019-03-26 21:06:43

Local clock offset: 2.692 ms

Remote clock offset: 2.64 ms

Below is generated by plot.py at 2019-03-26 22:41:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 484.47 Mbit/s

95th percentile per-packet one-way delay: 148.197 ms

Loss rate: 0.81%

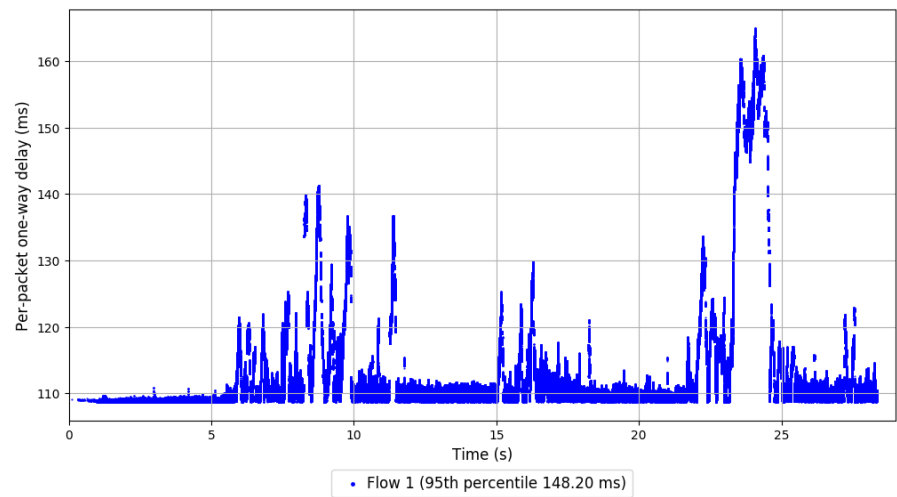
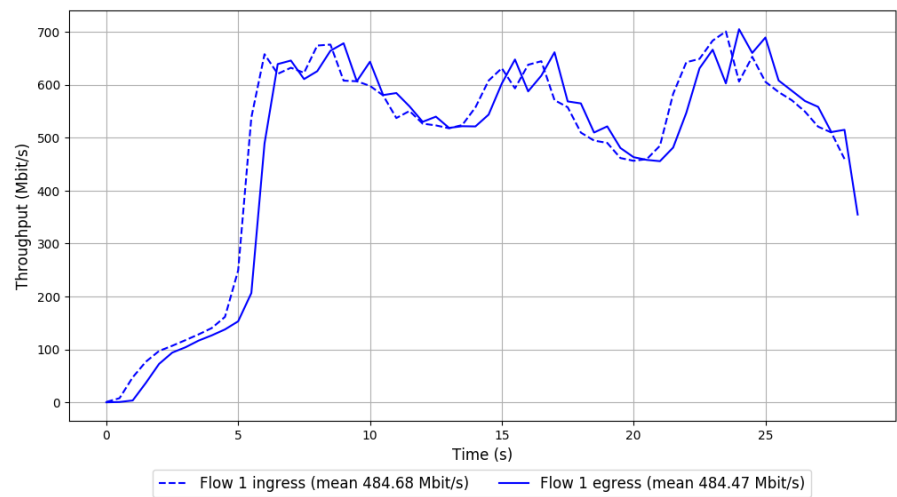
-- Flow 1:

Average throughput: 484.47 Mbit/s

95th percentile per-packet one-way delay: 148.197 ms

Loss rate: 0.81%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

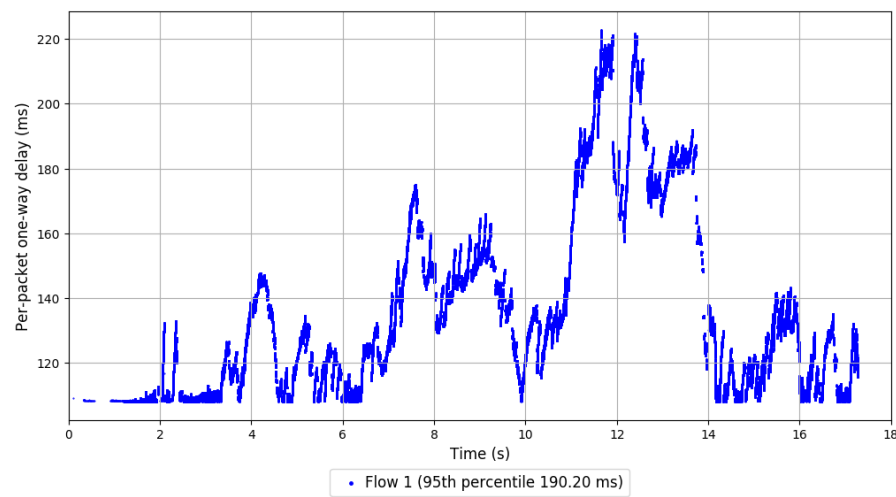
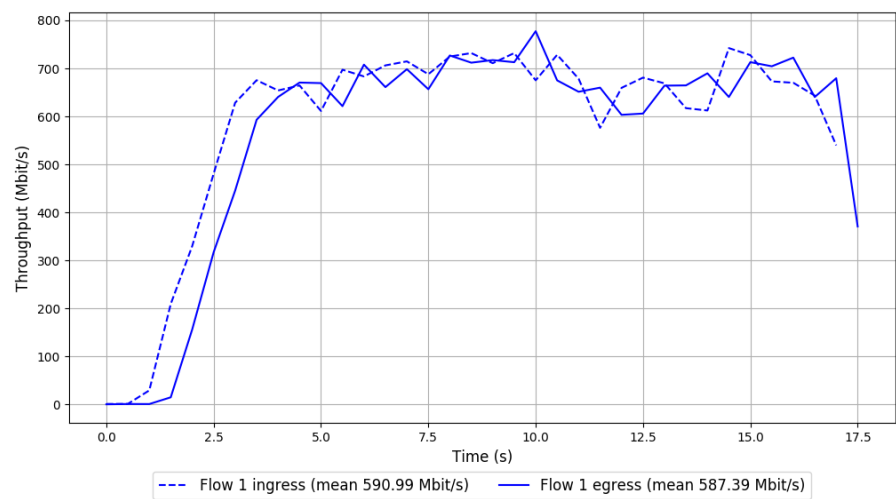
Start at: 2019-03-26 18:49:11

End at: 2019-03-26 18:49:41

Local clock offset: 5.533 ms

Remote clock offset: 6.052 ms

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-26 19:20:12

End at: 2019-03-26 19:20:42

Local clock offset: 25.008 ms

Remote clock offset: 25.669 ms

Below is generated by plot.py at 2019-03-26 22:47:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 619.77 Mbit/s

95th percentile per-packet one-way delay: 188.919 ms

Loss rate: 1.04%

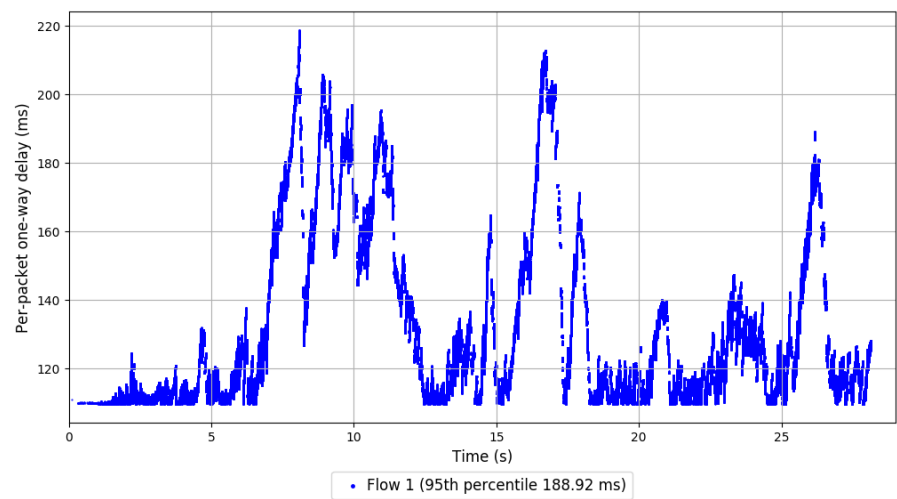
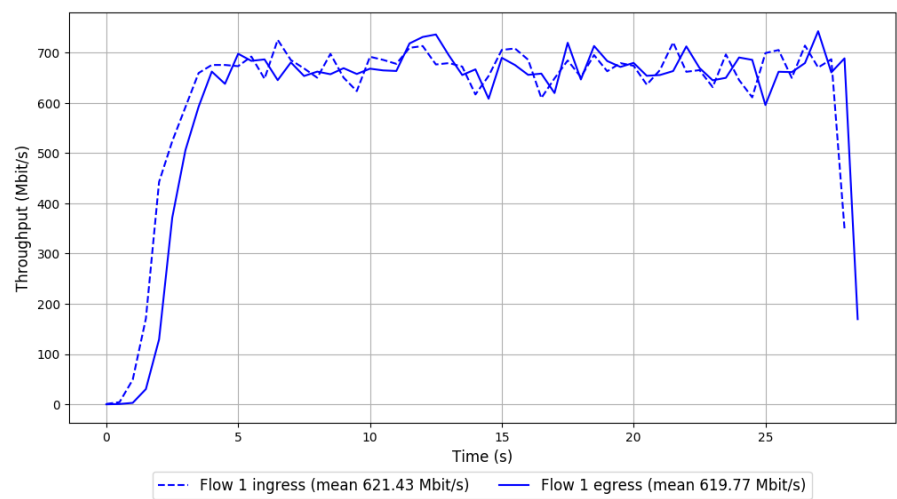
-- Flow 1:

Average throughput: 619.77 Mbit/s

95th percentile per-packet one-way delay: 188.919 ms

Loss rate: 1.04%

Run 2: Report of Indigo-MusesT — Data Link

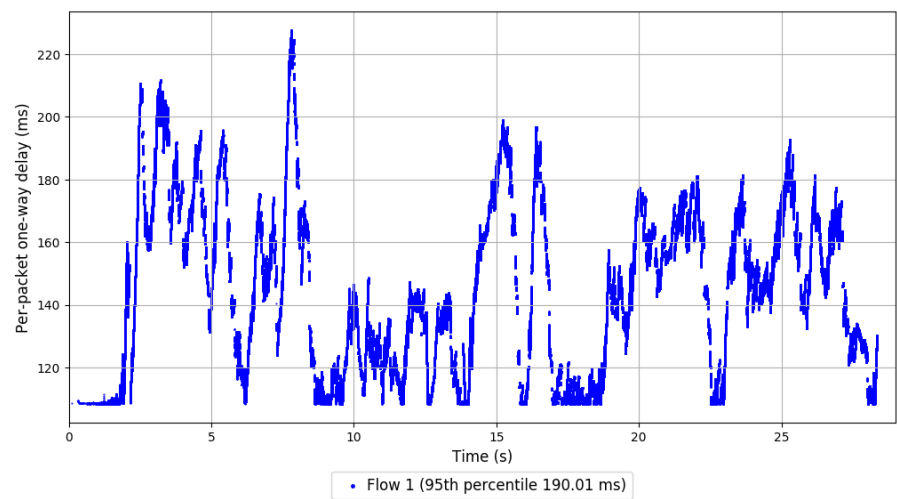
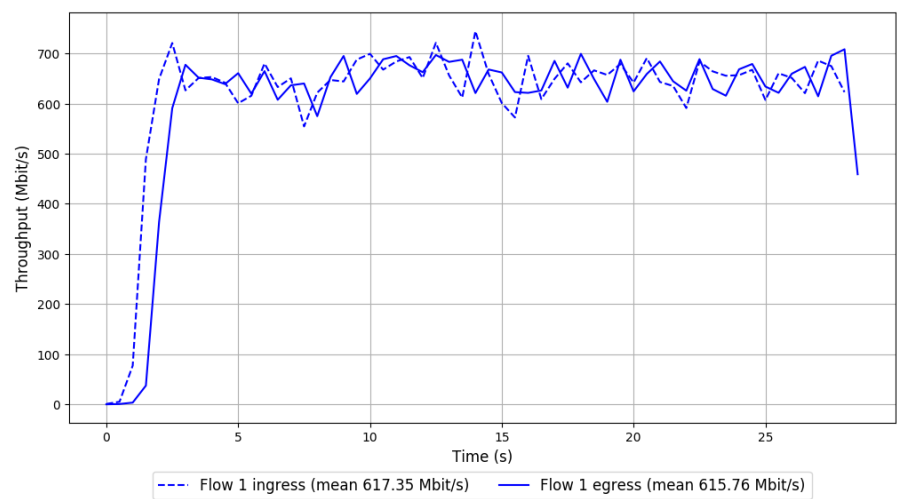


Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-26 19:53:45
End at: 2019-03-26 19:54:15
Local clock offset: 38.648 ms
Remote clock offset: 40.369 ms

Below is generated by plot.py at 2019-03-26 22:47:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 615.76 Mbit/s
95th percentile per-packet one-way delay: 190.010 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 615.76 Mbit/s
95th percentile per-packet one-way delay: 190.010 ms
Loss rate: 1.02%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-26 20:25:19

End at: 2019-03-26 20:25:49

Local clock offset: 9.38 ms

Remote clock offset: 9.869 ms

Below is generated by plot.py at 2019-03-26 22:48:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 635.92 Mbit/s

95th percentile per-packet one-way delay: 184.963 ms

Loss rate: 0.92%

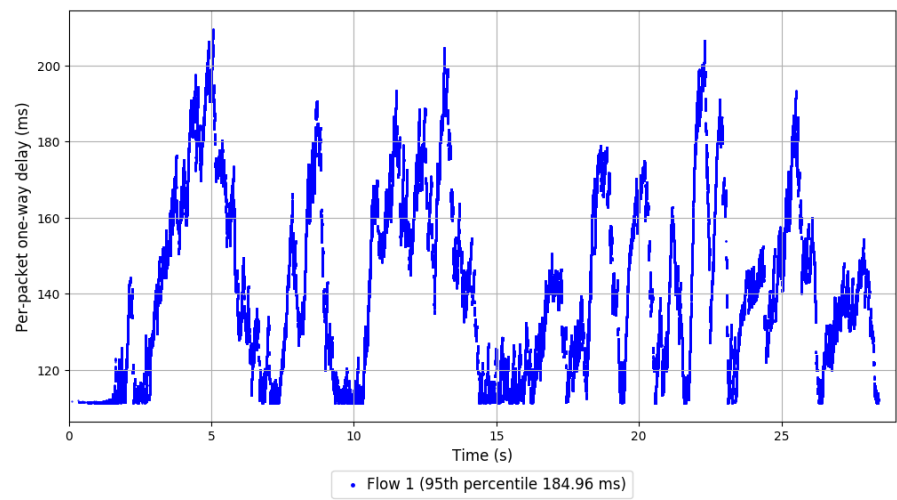
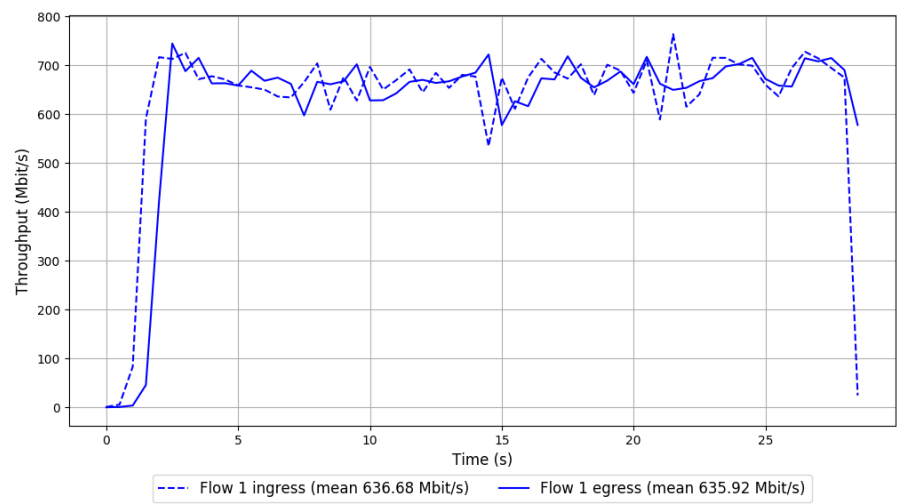
-- Flow 1:

Average throughput: 635.92 Mbit/s

95th percentile per-packet one-way delay: 184.963 ms

Loss rate: 0.92%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-26 20:58:38

End at: 2019-03-26 20:59:08

Local clock offset: 3.903 ms

Remote clock offset: 4.327 ms

Below is generated by plot.py at 2019-03-26 22:48:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 633.04 Mbit/s

95th percentile per-packet one-way delay: 172.434 ms

Loss rate: 0.80%

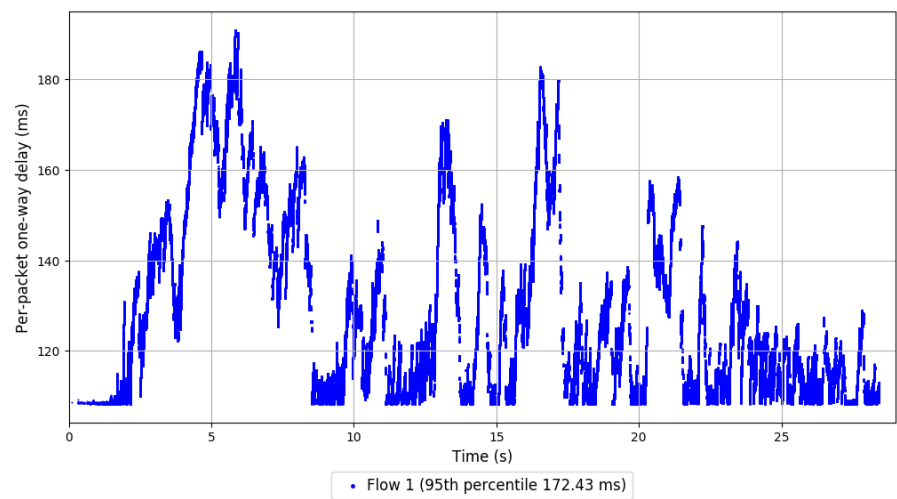
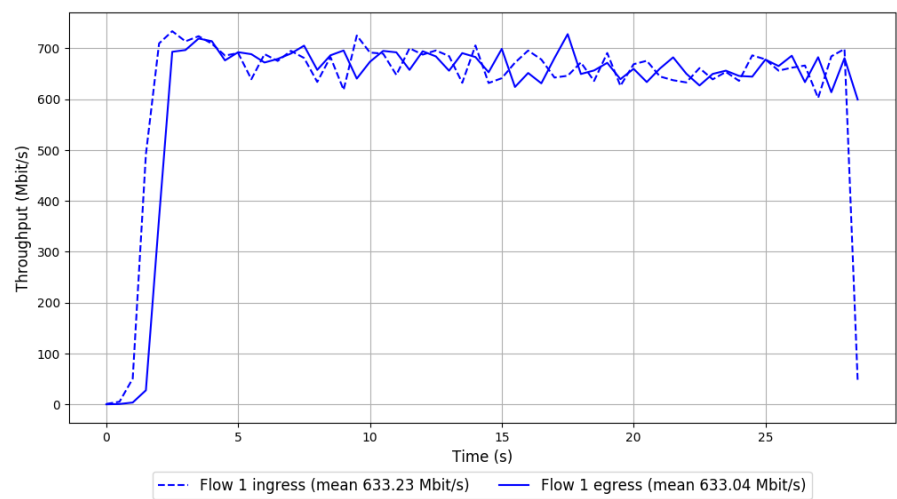
-- Flow 1:

Average throughput: 633.04 Mbit/s

95th percentile per-packet one-way delay: 172.434 ms

Loss rate: 0.80%

Run 5: Report of Indigo-MusesT — Data Link

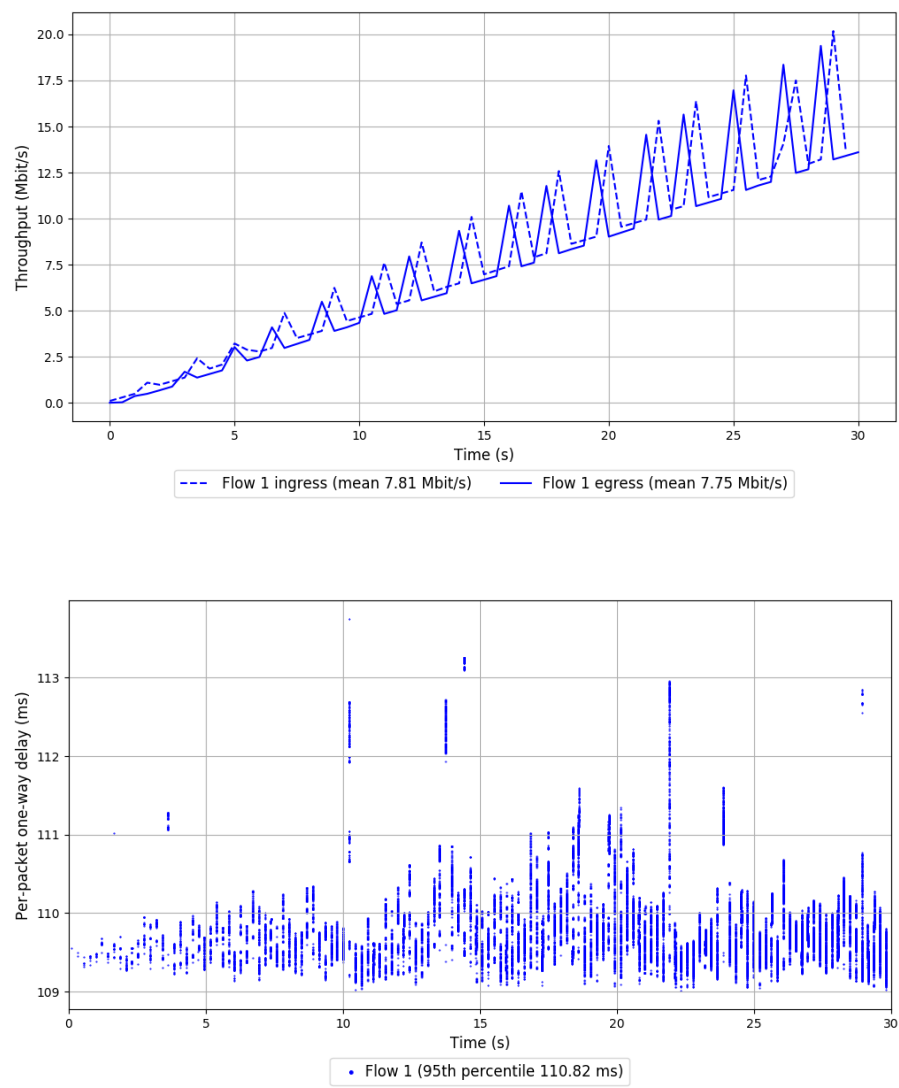


Run 1: Statistics of LEDBAT

Start at: 2019-03-26 18:57:57
End at: 2019-03-26 18:58:27
Local clock offset: 9.349 ms
Remote clock offset: 10.161 ms

Below is generated by plot.py at 2019-03-26 22:48:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 110.823 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 110.823 ms
Loss rate: 1.47%

Run 1: Report of LEDBAT — Data Link

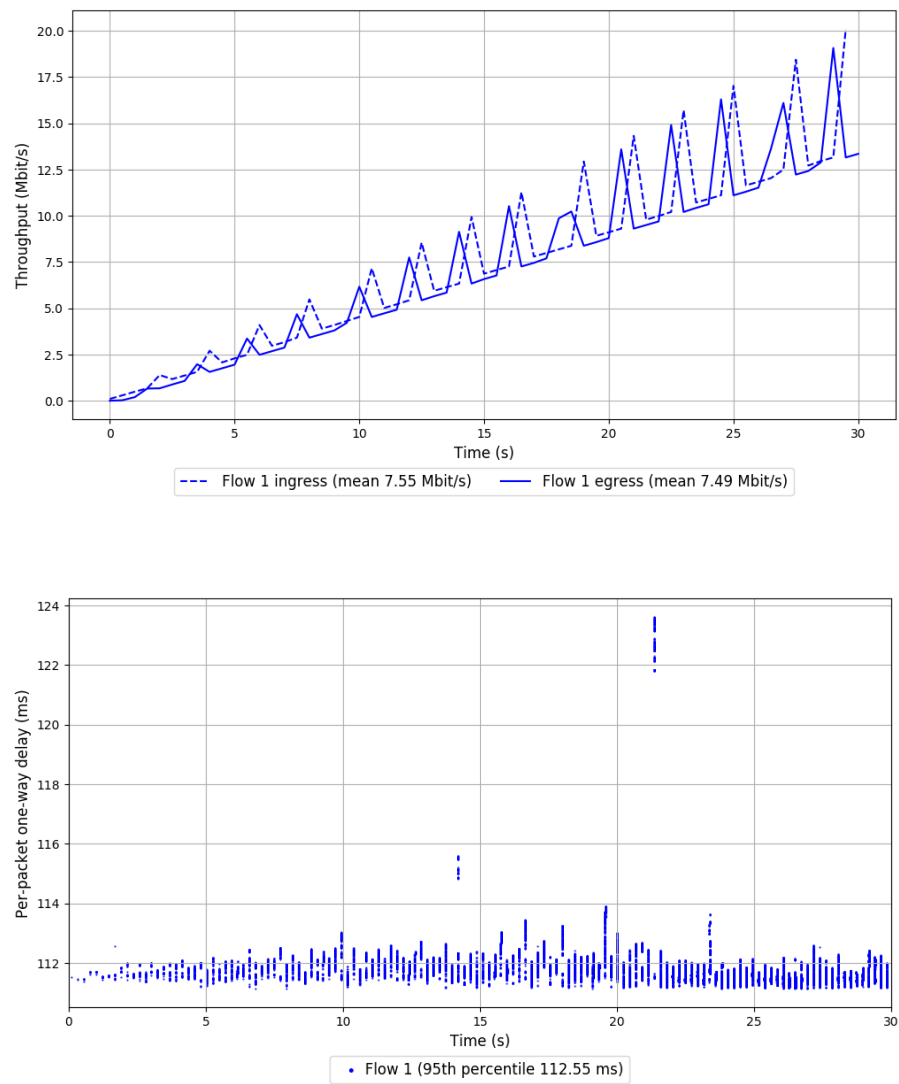


Run 2: Statistics of LEDBAT

Start at: 2019-03-26 19:30:15
End at: 2019-03-26 19:30:45
Local clock offset: 19.233 ms
Remote clock offset: 20.241 ms

Below is generated by plot.py at 2019-03-26 22:48:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 112.550 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 112.550 ms
Loss rate: 1.49%

Run 2: Report of LEDBAT — Data Link

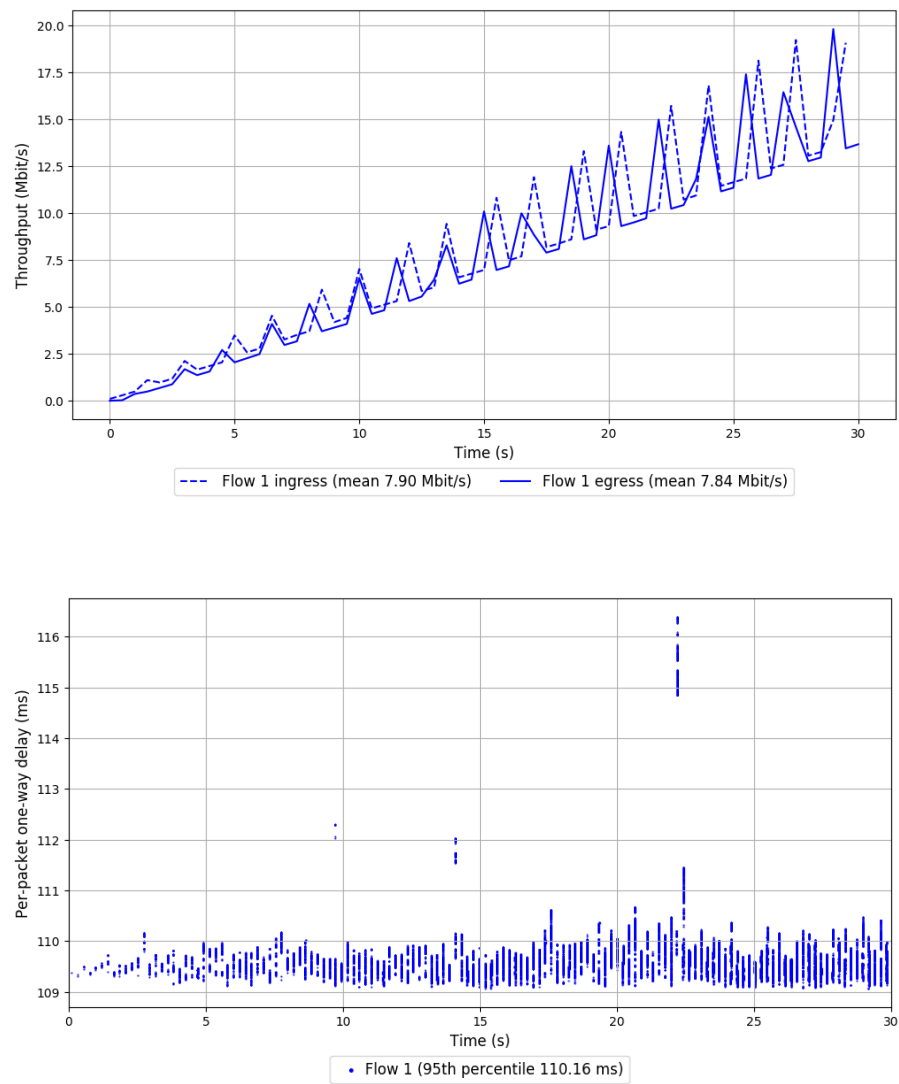


Run 3: Statistics of LEDBAT

Start at: 2019-03-26 20:02:54
End at: 2019-03-26 20:03:24
Local clock offset: 15.574 ms
Remote clock offset: 16.257 ms

Below is generated by plot.py at 2019-03-26 22:48:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 110.163 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 110.163 ms
Loss rate: 1.46%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-03-26 20:34:56

End at: 2019-03-26 20:35:26

Local clock offset: 5.108 ms

Remote clock offset: 5.405 ms

Below is generated by plot.py at 2019-03-26 22:48:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 111.039 ms

Loss rate: 1.47%

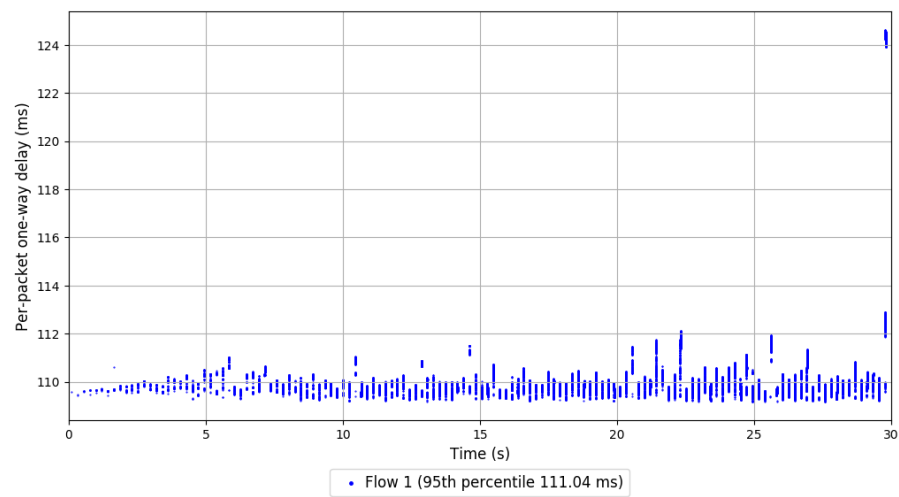
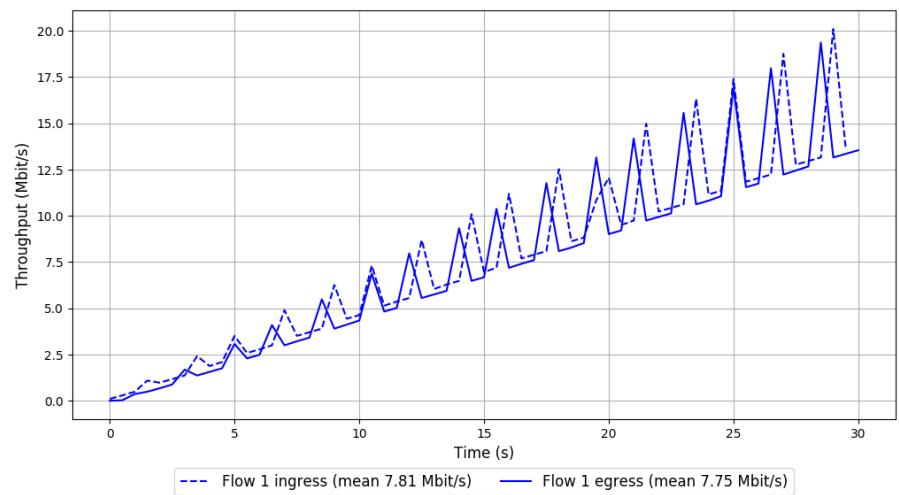
-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 111.039 ms

Loss rate: 1.47%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-03-26 21:07:48

End at: 2019-03-26 21:08:18

Local clock offset: 2.214 ms

Remote clock offset: 2.686 ms

Below is generated by plot.py at 2019-03-26 22:48:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 110.403 ms

Loss rate: 1.47%

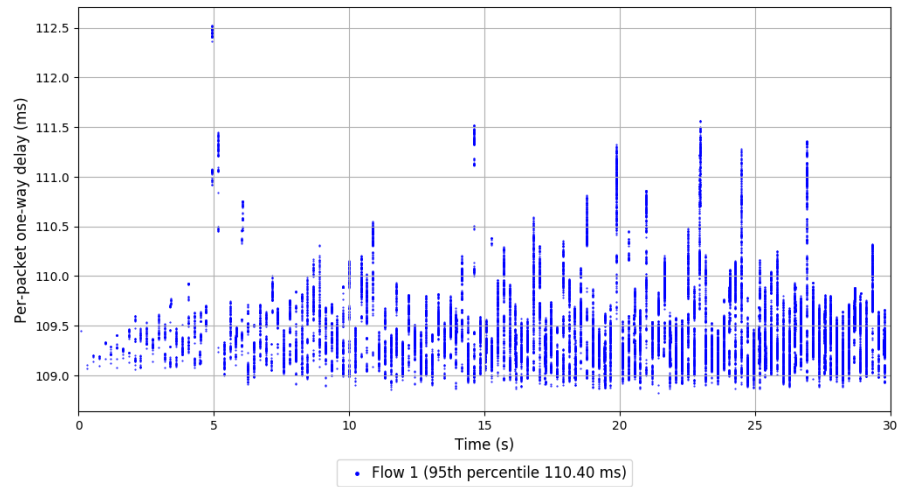
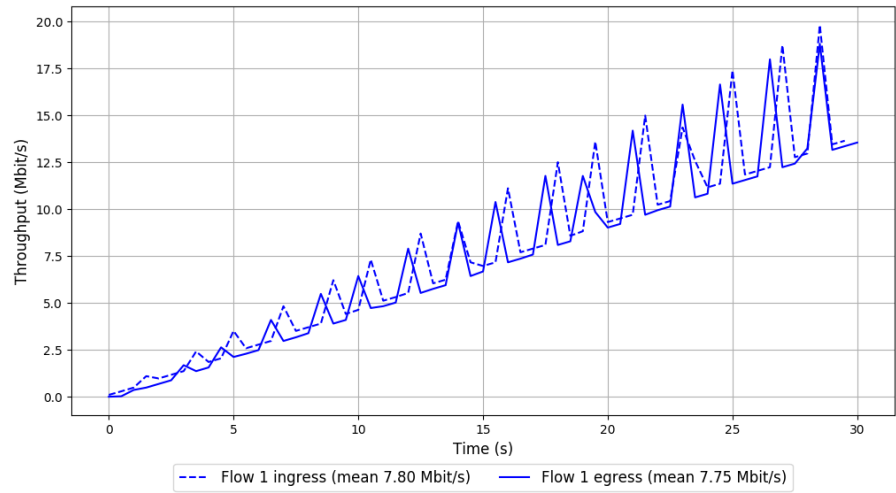
-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 110.403 ms

Loss rate: 1.47%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-03-26 19:15:43

End at: 2019-03-26 19:16:13

Local clock offset: 20.344 ms

Remote clock offset: 21.57 ms

Below is generated by plot.py at 2019-03-26 22:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.85 Mbit/s

95th percentile per-packet one-way delay: 214.238 ms

Loss rate: 1.58%

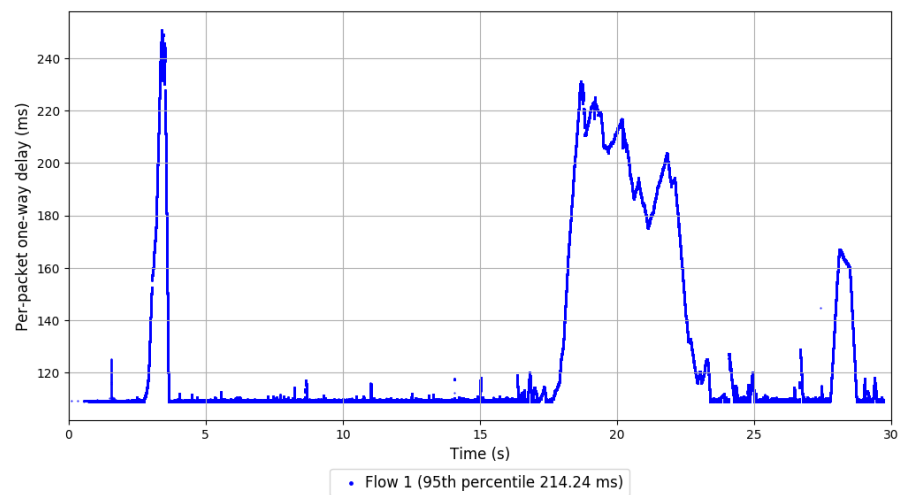
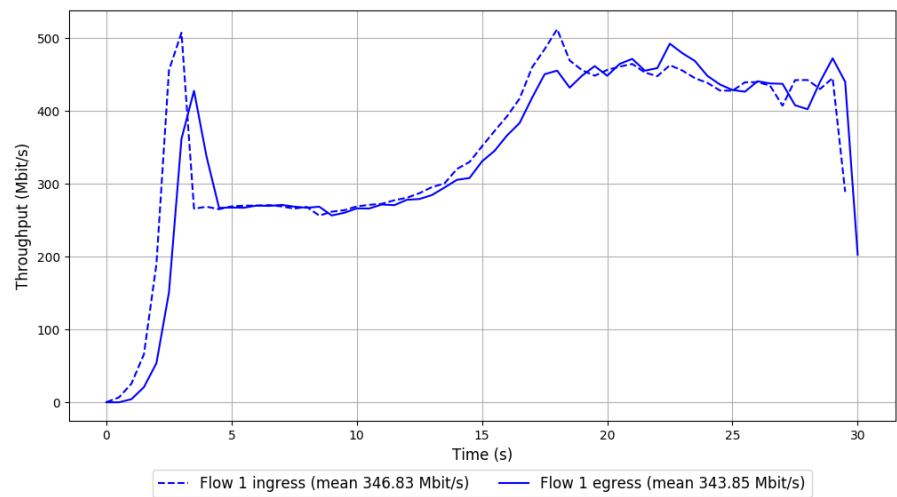
-- Flow 1:

Average throughput: 343.85 Mbit/s

95th percentile per-packet one-way delay: 214.238 ms

Loss rate: 1.58%

Run 1: Report of PCC-Allegro — Data Link

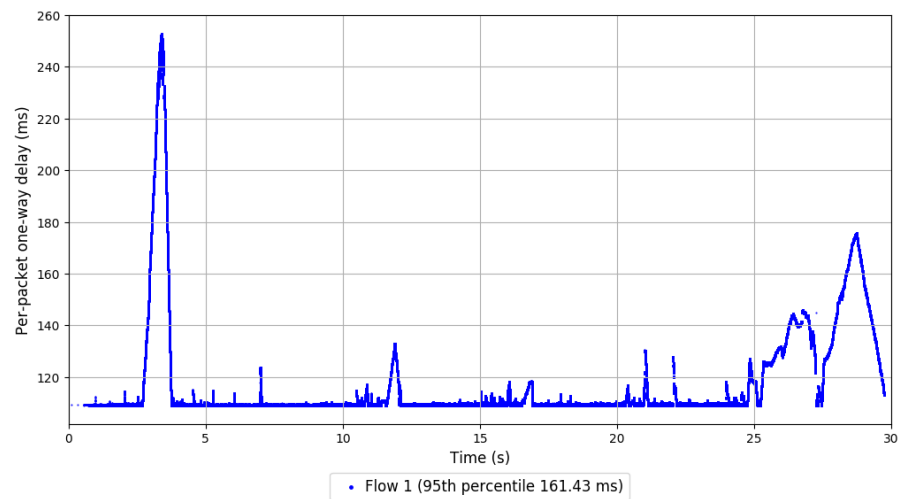
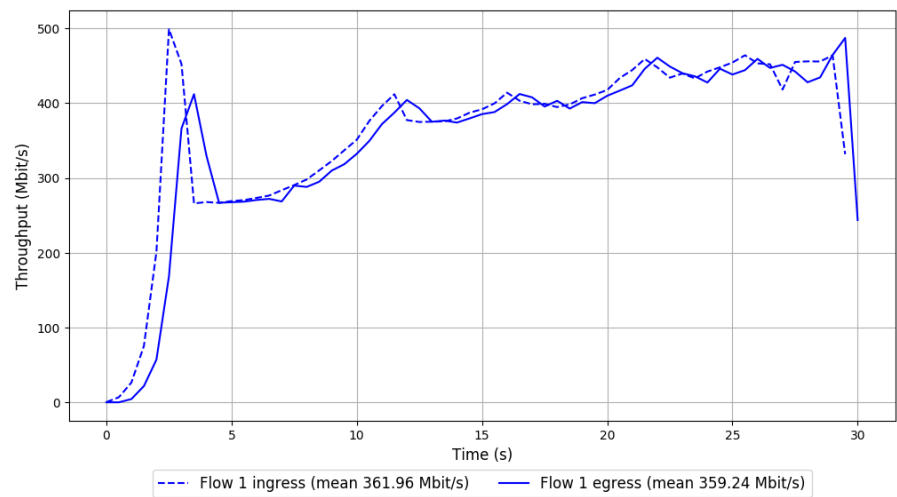


Run 2: Statistics of PCC-Allegro

Start at: 2019-03-26 19:48:41
End at: 2019-03-26 19:49:11
Local clock offset: 33.119 ms
Remote clock offset: 35.009 ms

Below is generated by plot.py at 2019-03-26 22:50:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 359.24 Mbit/s
95th percentile per-packet one-way delay: 161.432 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 359.24 Mbit/s
95th percentile per-packet one-way delay: 161.432 ms
Loss rate: 1.48%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-26 20:20:30

End at: 2019-03-26 20:21:00

Local clock offset: 8.658 ms

Remote clock offset: 9.286 ms

Below is generated by plot.py at 2019-03-26 22:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.05 Mbit/s

95th percentile per-packet one-way delay: 190.117 ms

Loss rate: 1.21%

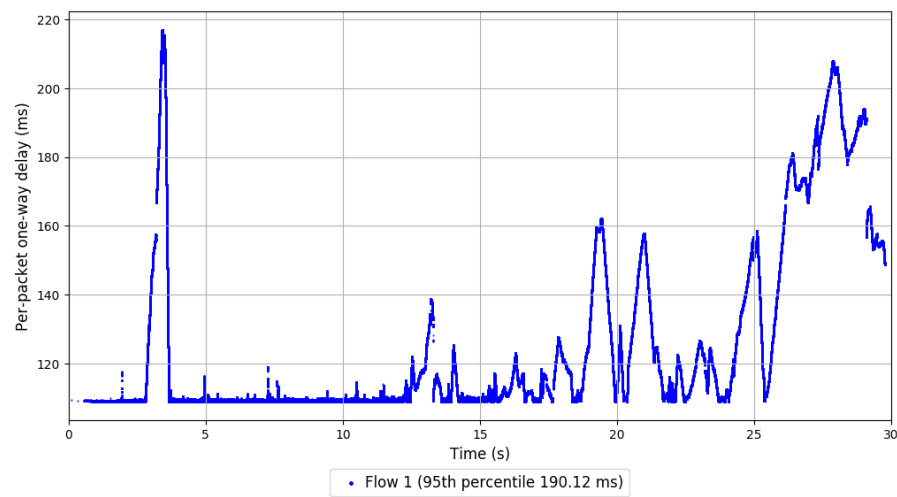
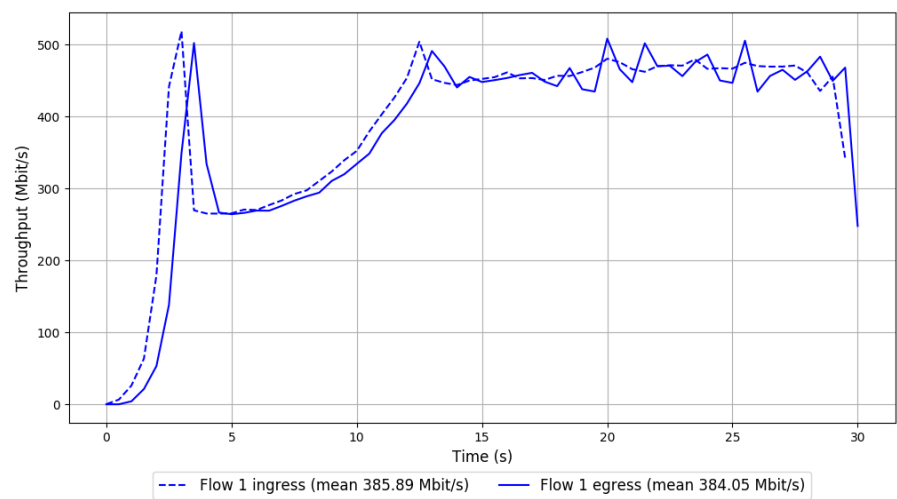
-- Flow 1:

Average throughput: 384.05 Mbit/s

95th percentile per-packet one-way delay: 190.117 ms

Loss rate: 1.21%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-26 20:53:32

End at: 2019-03-26 20:54:02

Local clock offset: 3.39 ms

Remote clock offset: 3.881 ms

Below is generated by plot.py at 2019-03-26 22:54:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.03 Mbit/s

95th percentile per-packet one-way delay: 211.955 ms

Loss rate: 1.81%

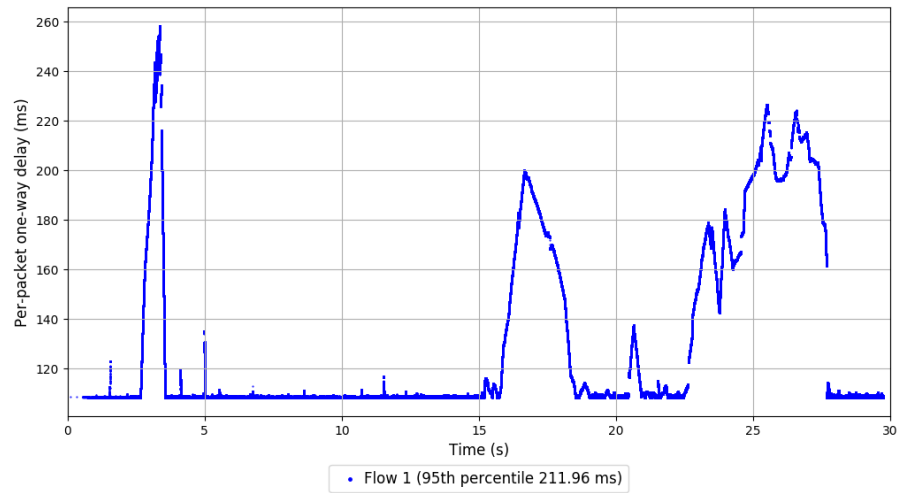
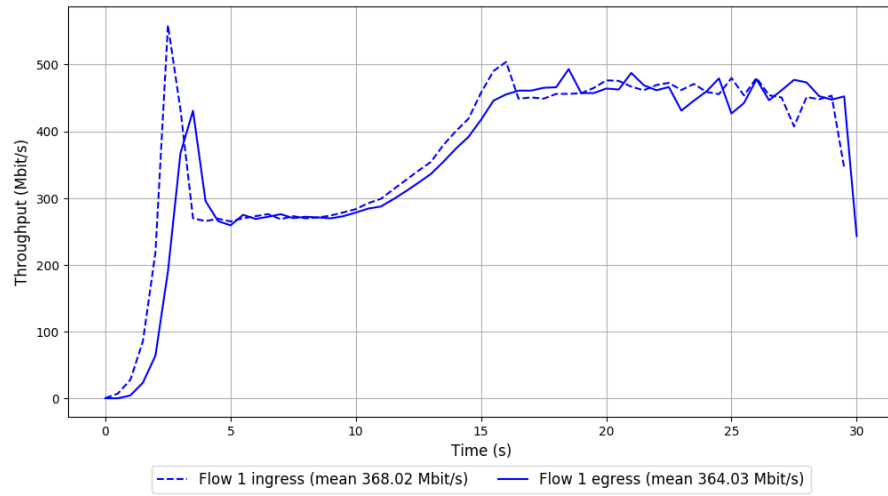
-- Flow 1:

Average throughput: 364.03 Mbit/s

95th percentile per-packet one-way delay: 211.955 ms

Loss rate: 1.81%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-26 21:25:22

End at: 2019-03-26 21:25:52

Local clock offset: 1.407 ms

Remote clock offset: 1.628 ms

Below is generated by plot.py at 2019-03-26 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.29 Mbit/s

95th percentile per-packet one-way delay: 222.188 ms

Loss rate: 3.32%

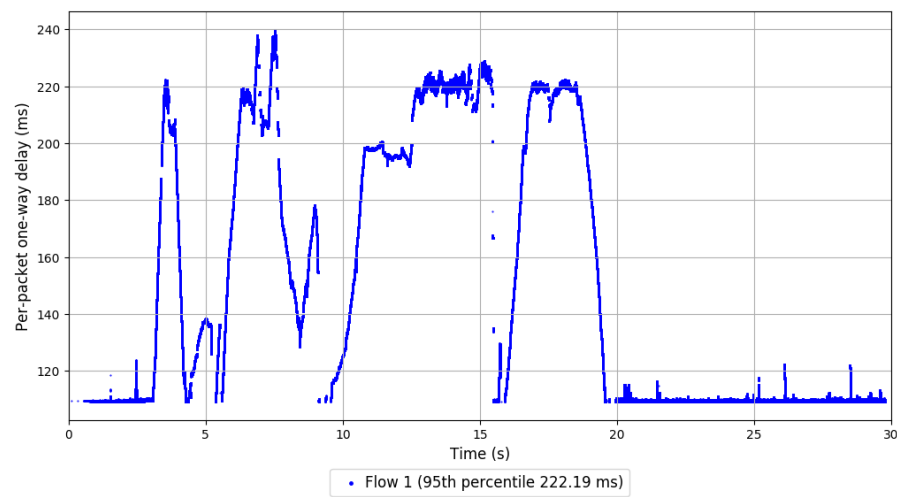
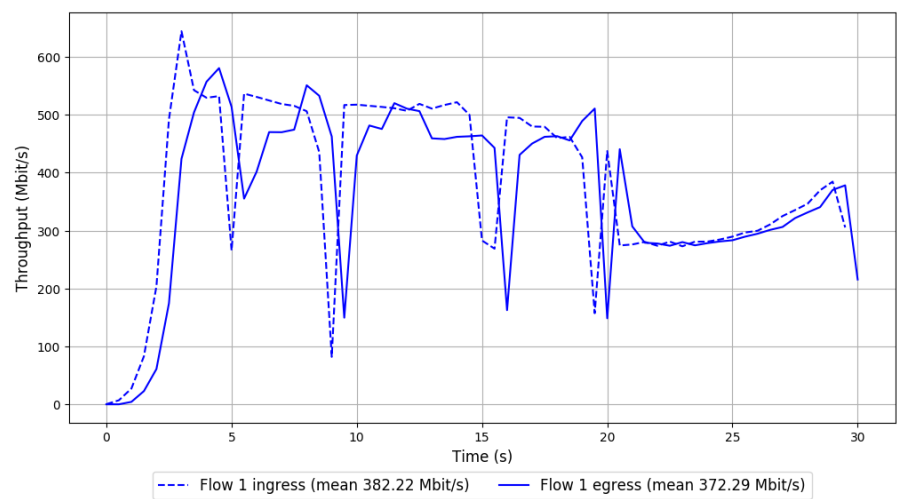
-- Flow 1:

Average throughput: 372.29 Mbit/s

95th percentile per-packet one-way delay: 222.188 ms

Loss rate: 3.32%

Run 5: Report of PCC-Allegro — Data Link

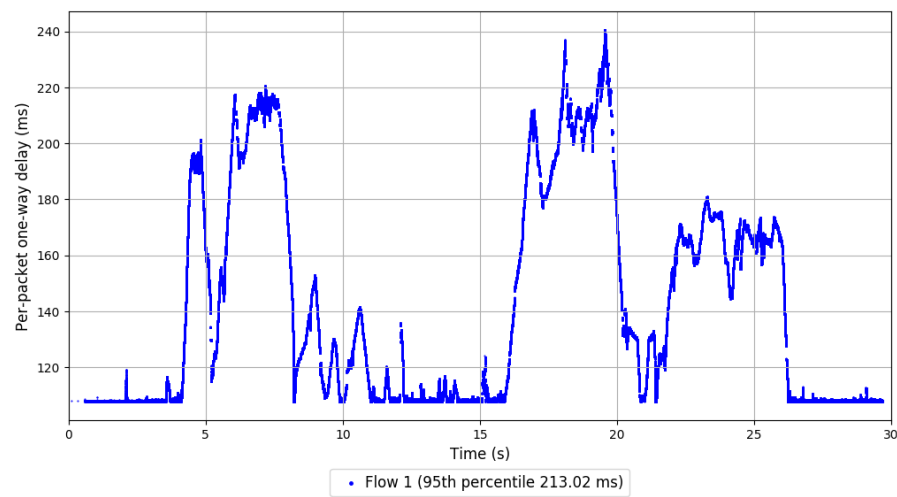
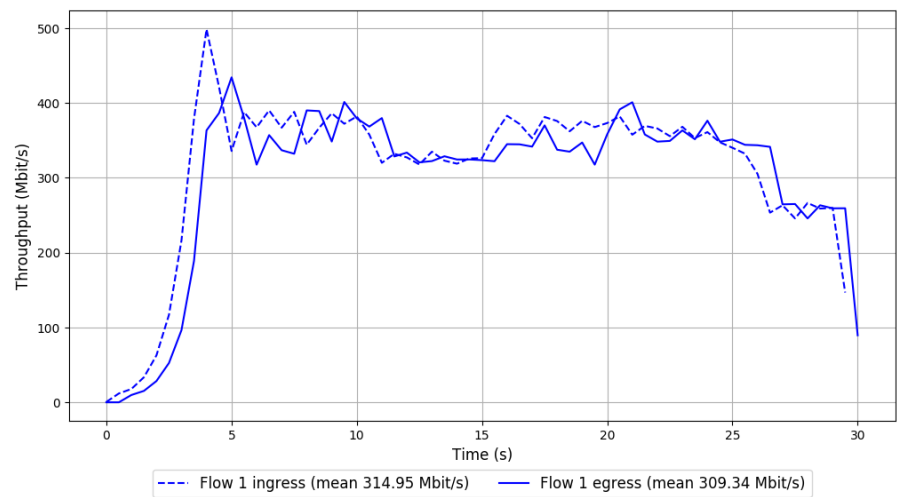



```
Run 1: Statistics of PCC-Expr

Start at: 2019-03-26 18:47:28
End at: 2019-03-26 18:47:58
Local clock offset: 3.889 ms
Remote clock offset: 4.733 ms

# Below is generated by plot.py at 2019-03-26 23:00:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.34 Mbit/s
95th percentile per-packet one-way delay: 213.019 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 309.34 Mbit/s
95th percentile per-packet one-way delay: 213.019 ms
Loss rate: 2.50%
```

Run 1: Report of PCC-Expr — Data Link

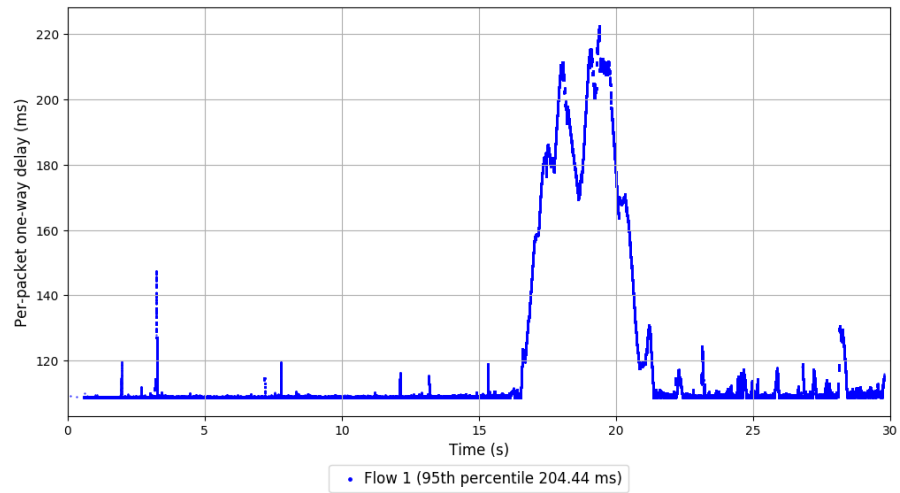
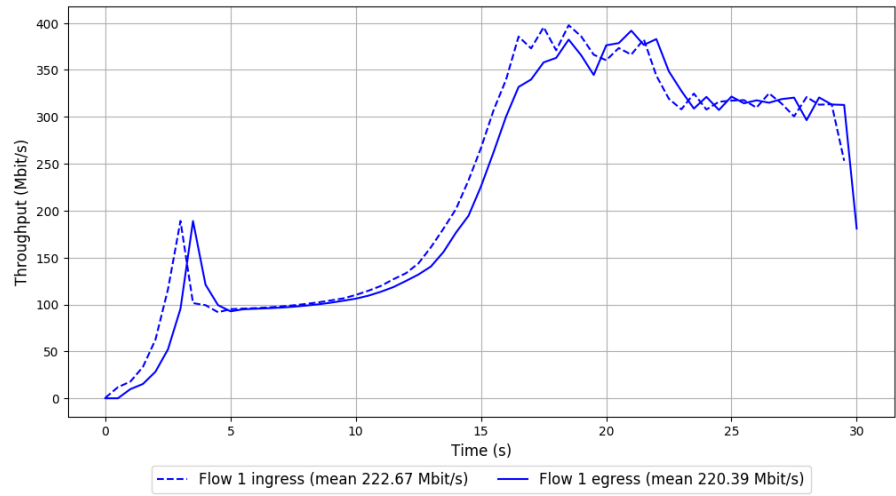


Run 2: Statistics of PCC-Expr

Start at: 2019-03-26 19:18:30
End at: 2019-03-26 19:19:00
Local clock offset: 23.936 ms
Remote clock offset: 25.713 ms

Below is generated by plot.py at 2019-03-26 23:00:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 220.39 Mbit/s
95th percentile per-packet one-way delay: 204.436 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 220.39 Mbit/s
95th percentile per-packet one-way delay: 204.436 ms
Loss rate: 1.75%

Run 2: Report of PCC-Expr — Data Link

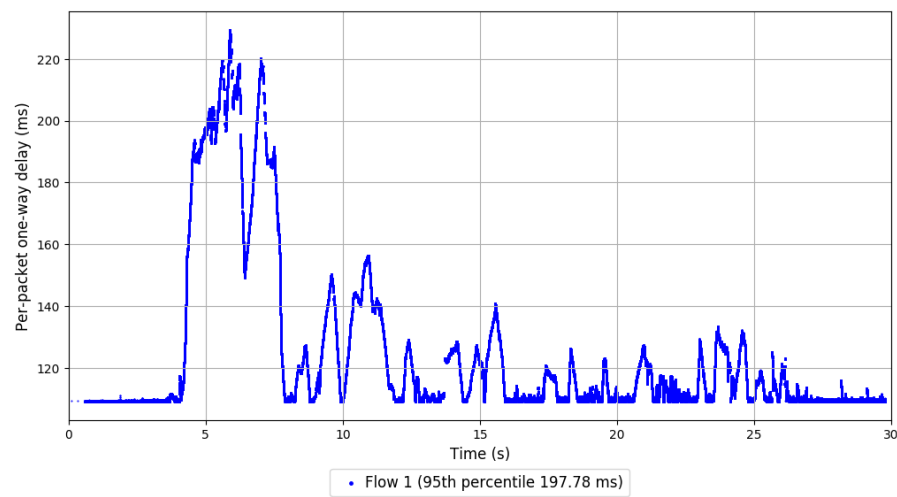
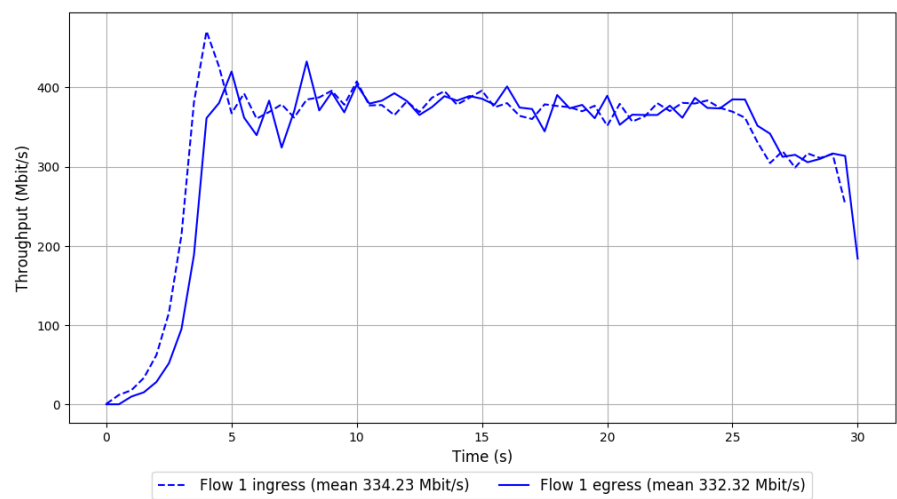


Run 3: Statistics of PCC-Expr

Start at: 2019-03-26 19:51:58
End at: 2019-03-26 19:52:28
Local clock offset: 36.715 ms
Remote clock offset: 38.728 ms

Below is generated by plot.py at 2019-03-26 23:00:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 332.32 Mbit/s
95th percentile per-packet one-way delay: 197.776 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 332.32 Mbit/s
95th percentile per-packet one-way delay: 197.776 ms
Loss rate: 1.30%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-03-26 20:23:37

End at: 2019-03-26 20:24:07

Local clock offset: 9.177 ms

Remote clock offset: 9.57 ms

Below is generated by plot.py at 2019-03-26 23:01:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.44 Mbit/s

95th percentile per-packet one-way delay: 196.407 ms

Loss rate: 2.15%

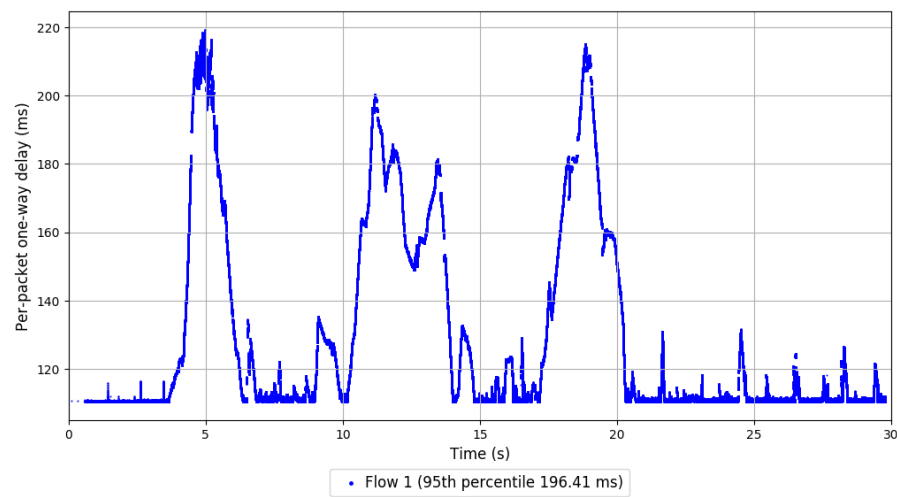
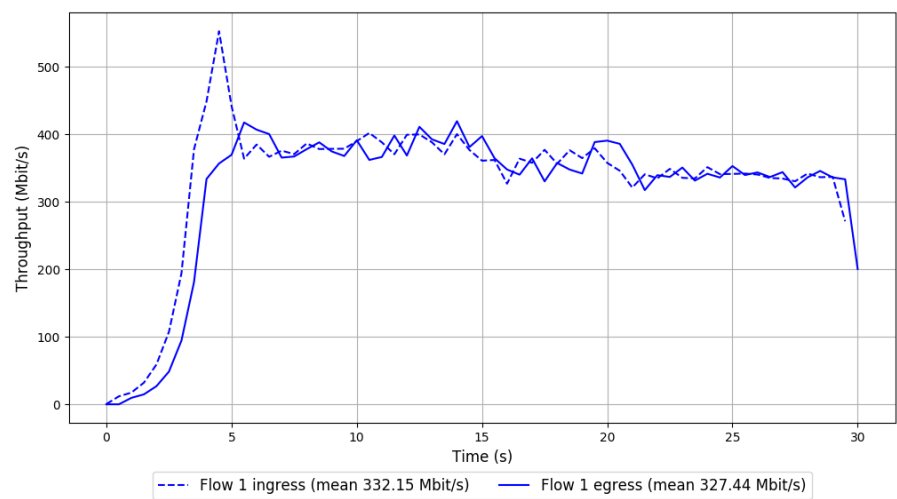
-- Flow 1:

Average throughput: 327.44 Mbit/s

95th percentile per-packet one-way delay: 196.407 ms

Loss rate: 2.15%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-03-26 20:56:51

End at: 2019-03-26 20:57:21

Local clock offset: 3.389 ms

Remote clock offset: 4.191 ms

Below is generated by plot.py at 2019-03-26 23:02:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.54 Mbit/s

95th percentile per-packet one-way delay: 210.006 ms

Loss rate: 2.40%

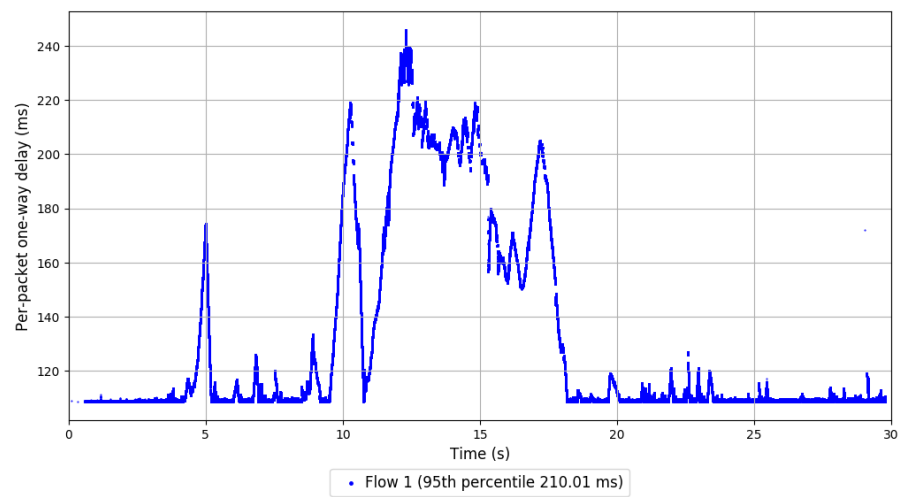
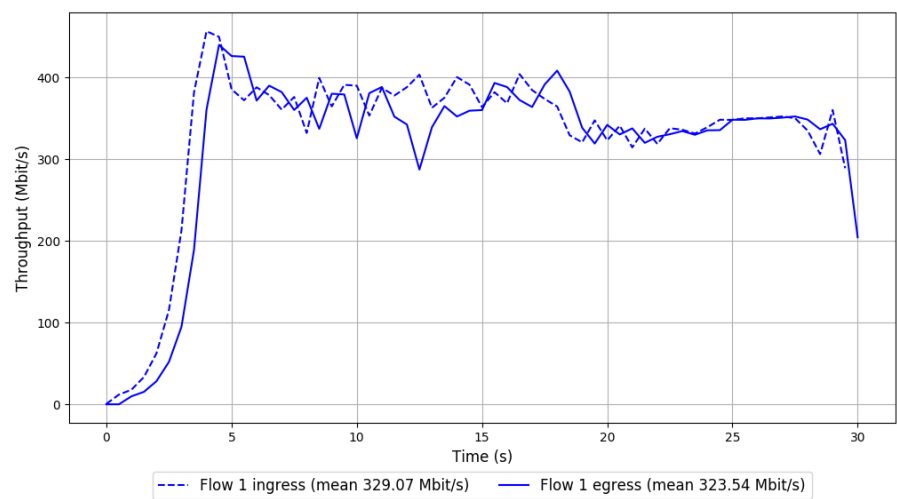
-- Flow 1:

Average throughput: 323.54 Mbit/s

95th percentile per-packet one-way delay: 210.006 ms

Loss rate: 2.40%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-26 18:50:39

End at: 2019-03-26 18:51:09

Local clock offset: 5.802 ms

Remote clock offset: 5.923 ms

Below is generated by plot.py at 2019-03-26 23:02:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.90 Mbit/s

95th percentile per-packet one-way delay: 109.611 ms

Loss rate: 1.46%

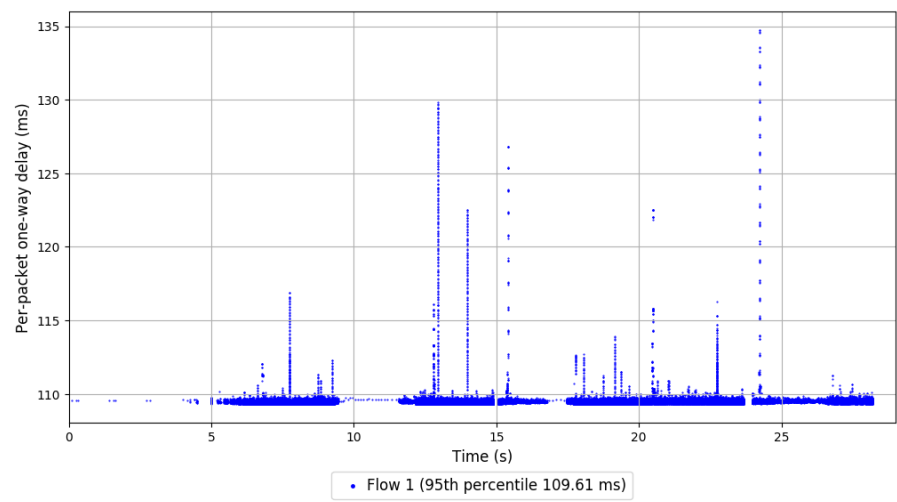
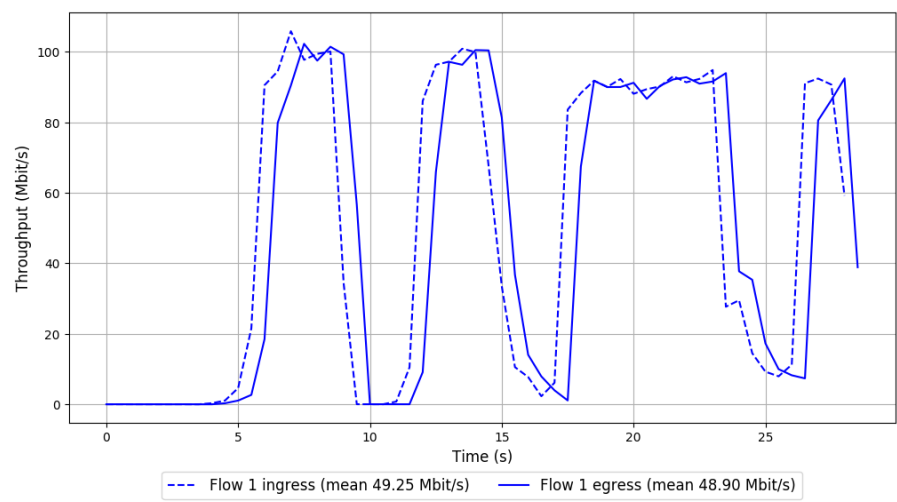
-- Flow 1:

Average throughput: 48.90 Mbit/s

95th percentile per-packet one-way delay: 109.611 ms

Loss rate: 1.46%

Run 1: Report of QUIC Cubic — Data Link

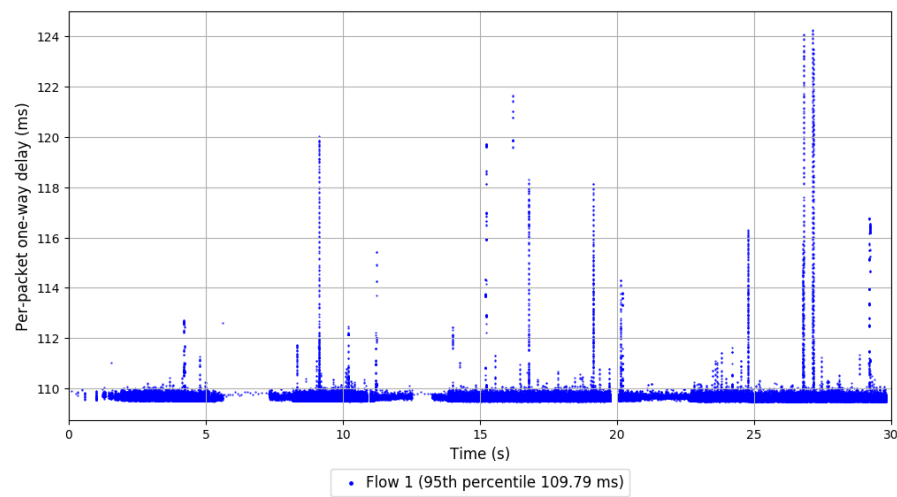
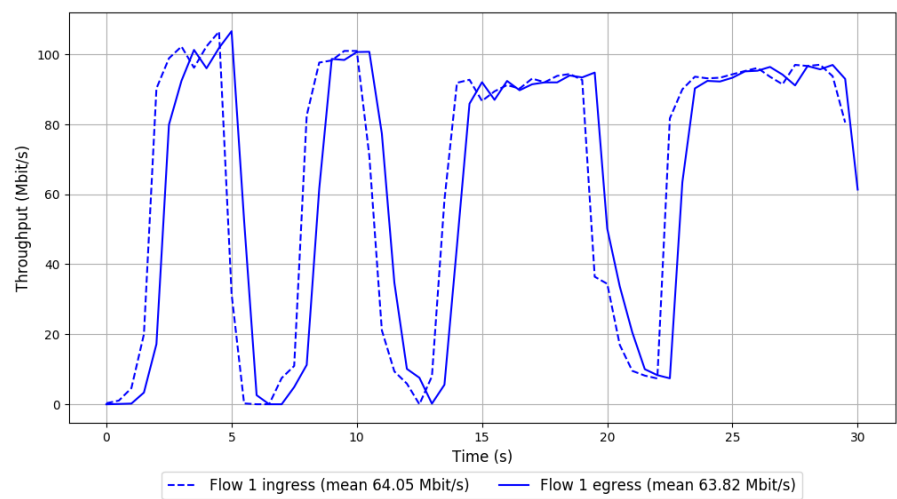


Run 2: Statistics of QUIC Cubic

Start at: 2019-03-26 19:22:13
End at: 2019-03-26 19:22:43
Local clock offset: 22.239 ms
Remote clock offset: 22.891 ms

Below is generated by plot.py at 2019-03-26 23:02:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.82 Mbit/s
95th percentile per-packet one-way delay: 109.791 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 63.82 Mbit/s
95th percentile per-packet one-way delay: 109.791 ms
Loss rate: 1.08%

Run 2: Report of QUIC Cubic — Data Link

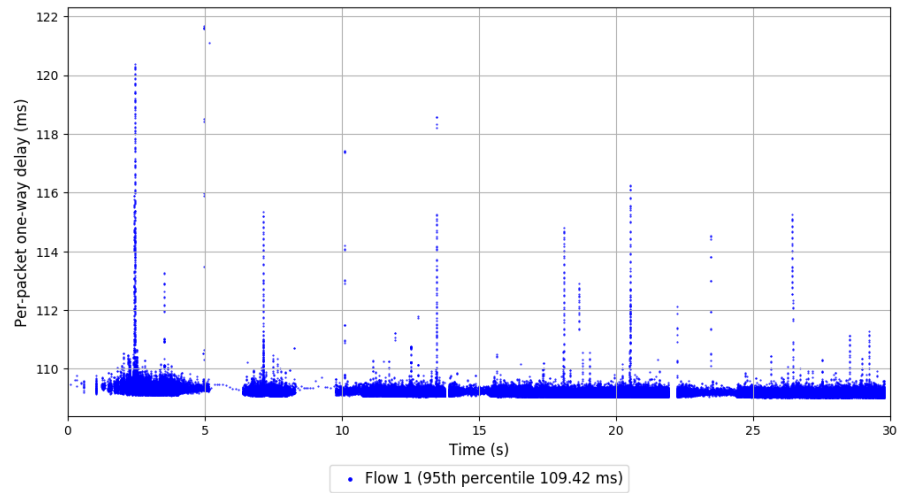
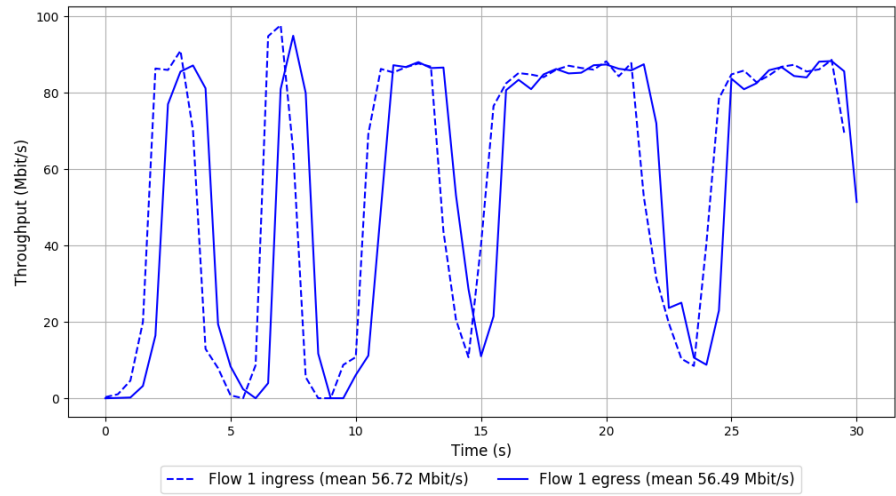


Run 3: Statistics of QUIC Cubic

Start at: 2019-03-26 19:55:30
End at: 2019-03-26 19:56:00
Local clock offset: 32.87 ms
Remote clock offset: 33.593 ms

Below is generated by plot.py at 2019-03-26 23:02:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 56.49 Mbit/s
95th percentile per-packet one-way delay: 109.416 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 56.49 Mbit/s
95th percentile per-packet one-way delay: 109.416 ms
Loss rate: 1.12%

Run 3: Report of QUIC Cubic — Data Link

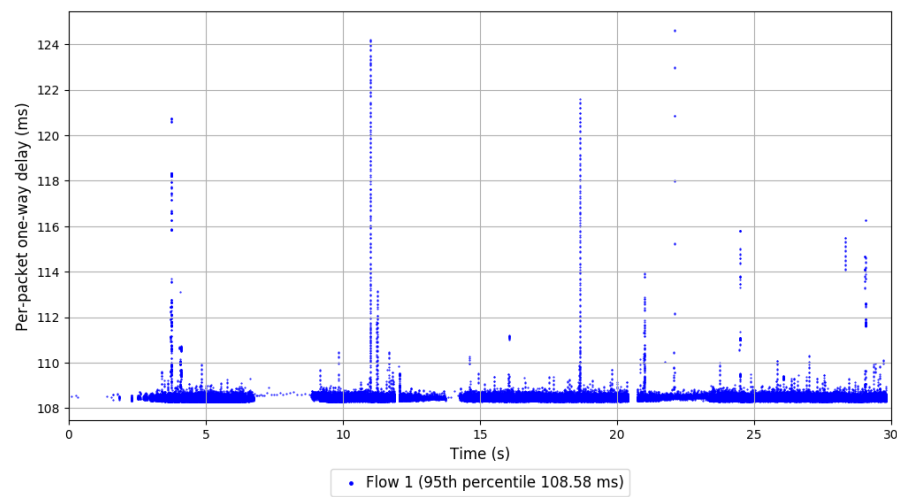
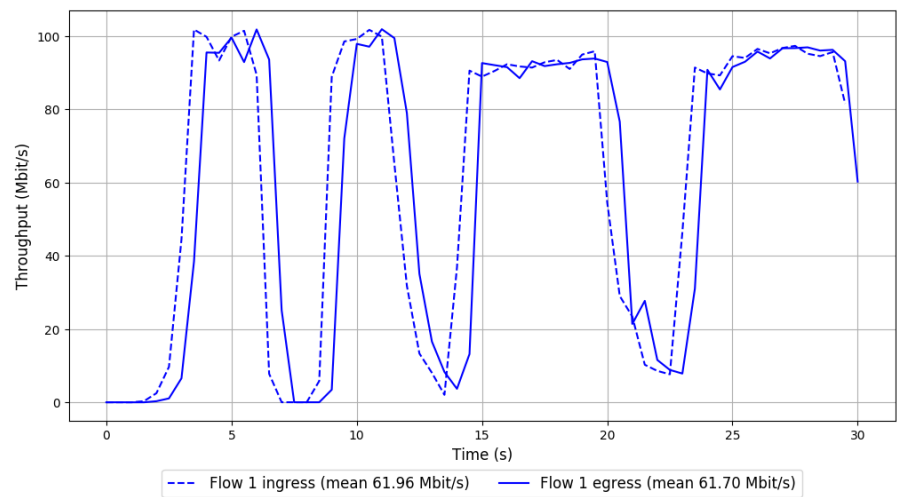


Run 4: Statistics of QUIC Cubic

Start at: 2019-03-26 20:27:11
End at: 2019-03-26 20:27:41
Local clock offset: 9.737 ms
Remote clock offset: 10.195 ms

Below is generated by plot.py at 2019-03-26 23:02:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.70 Mbit/s
95th percentile per-packet one-way delay: 108.585 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 61.70 Mbit/s
95th percentile per-packet one-way delay: 108.585 ms
Loss rate: 1.14%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-26 21:00:22

End at: 2019-03-26 21:00:52

Local clock offset: 4.071 ms

Remote clock offset: 4.518 ms

Below is generated by plot.py at 2019-03-26 23:02:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 108.601 ms

Loss rate: 1.07%

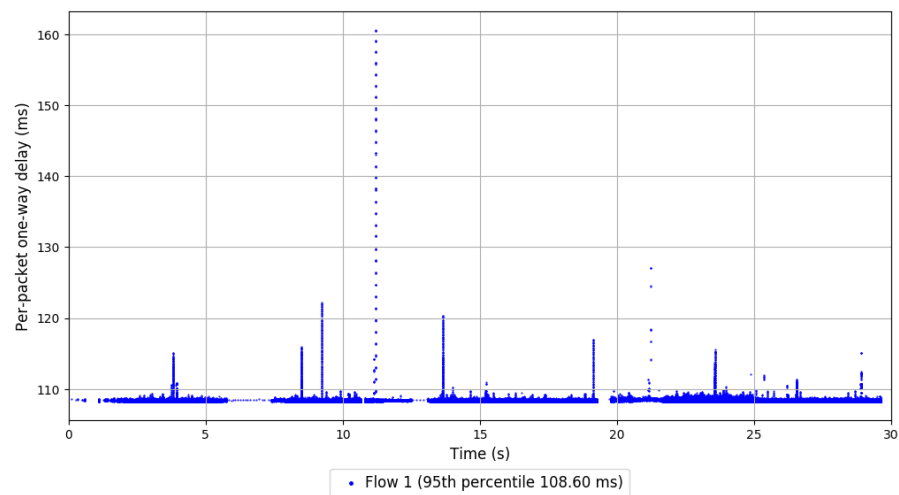
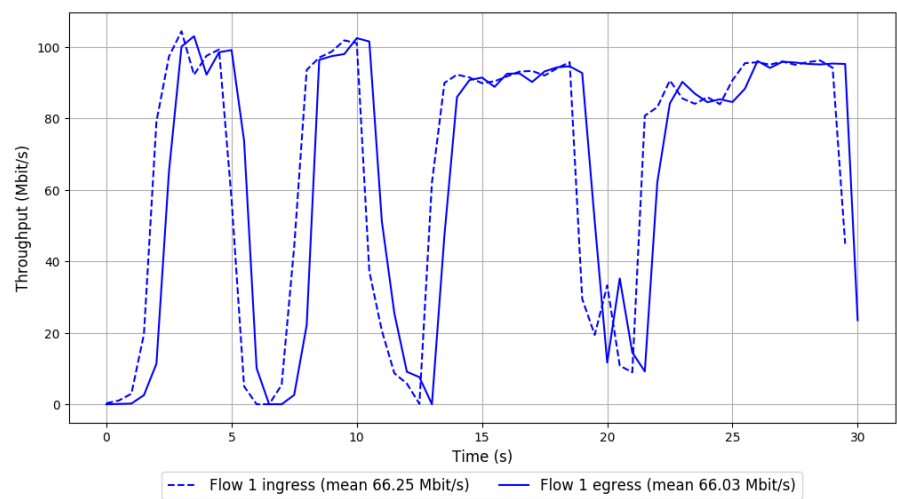
-- Flow 1:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 108.601 ms

Loss rate: 1.07%

Run 5: Report of QUIC Cubic — Data Link

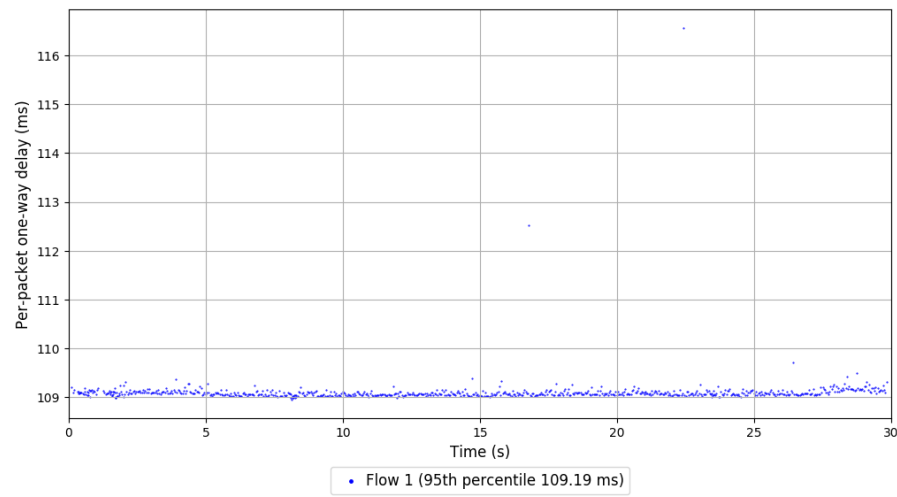
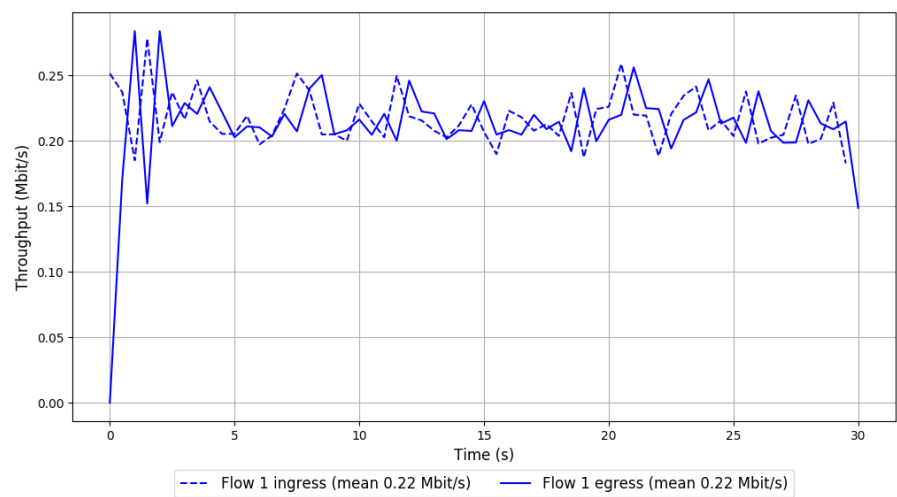


```
Run 1: Statistics of SCReAM

Start at: 2019-03-26 19:08:06
End at: 2019-03-26 19:08:36
Local clock offset: 12.586 ms
Remote clock offset: 13.639 ms

# Below is generated by plot.py at 2019-03-26 23:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.193 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.193 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link

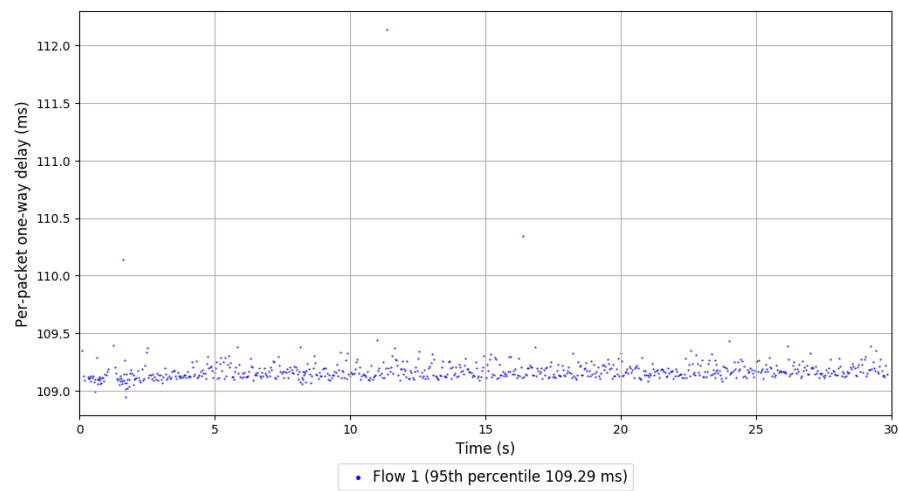
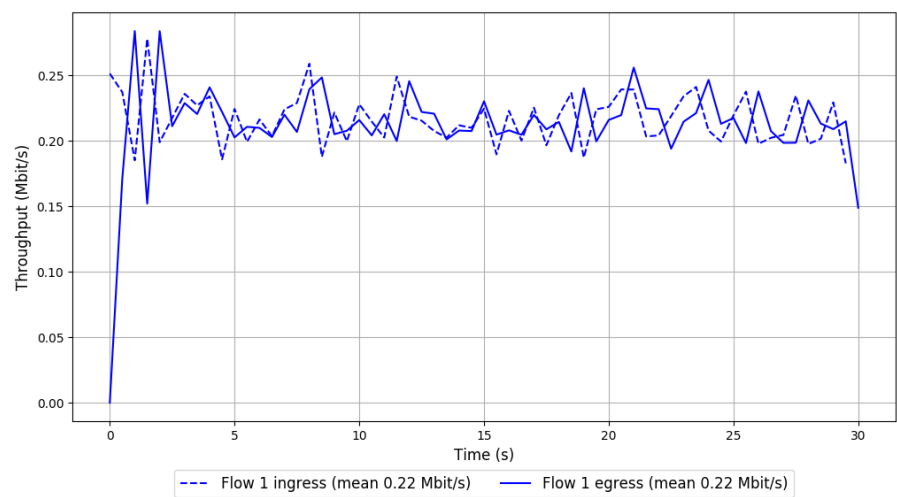


Run 2: Statistics of SCReAM

Start at: 2019-03-26 19:40:41
End at: 2019-03-26 19:41:11
Local clock offset: 25.373 ms
Remote clock offset: 27.009 ms

Below is generated by plot.py at 2019-03-26 23:02:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.292 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.292 ms
Loss rate: 0.64%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-03-26 20:12:55

End at: 2019-03-26 20:13:25

Local clock offset: 9.175 ms

Remote clock offset: 9.656 ms

Below is generated by plot.py at 2019-03-26 23:02:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.582 ms

Loss rate: 0.64%

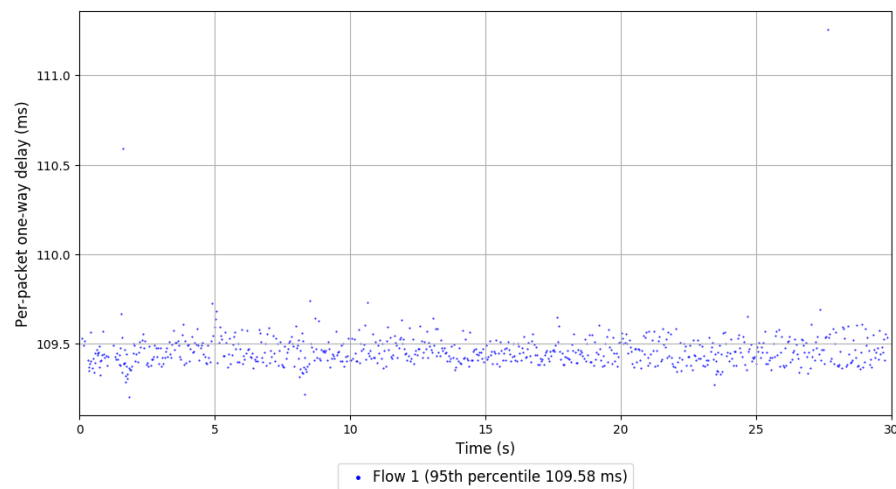
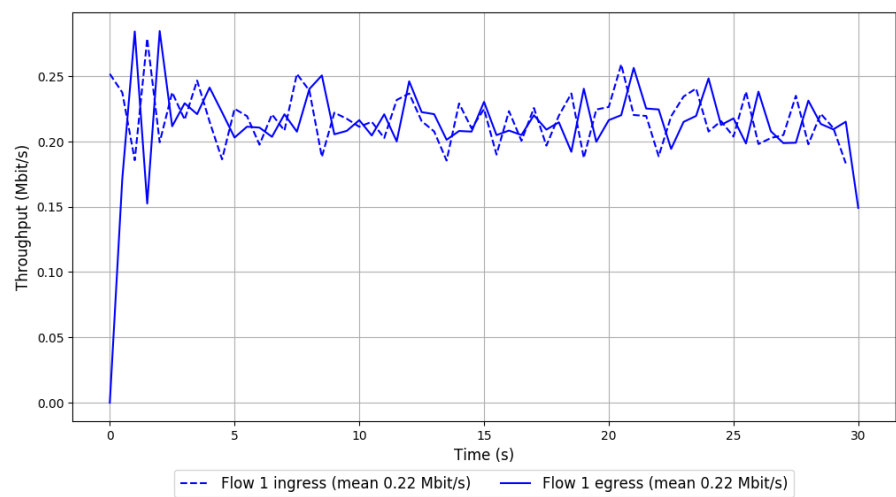
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.582 ms

Loss rate: 0.64%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-03-26 20:45:18

End at: 2019-03-26 20:45:48

Local clock offset: 3.347 ms

Remote clock offset: 3.607 ms

Below is generated by plot.py at 2019-03-26 23:02:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.770 ms

Loss rate: 0.76%

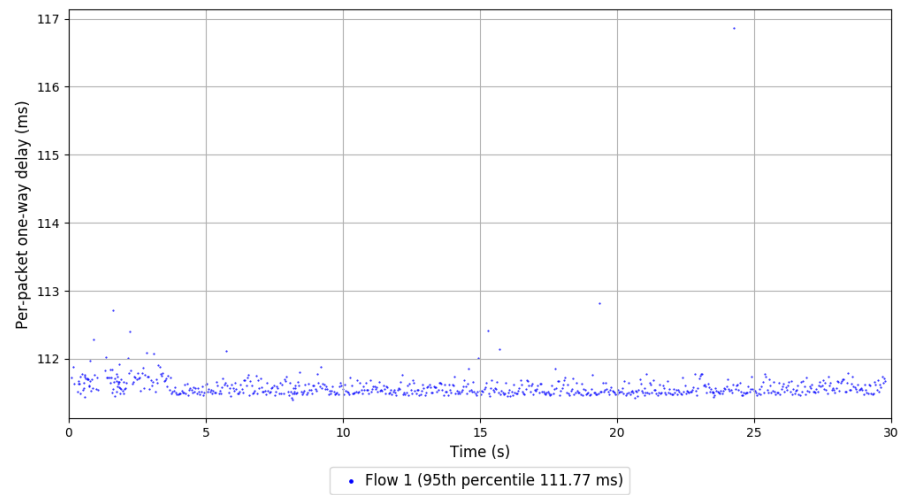
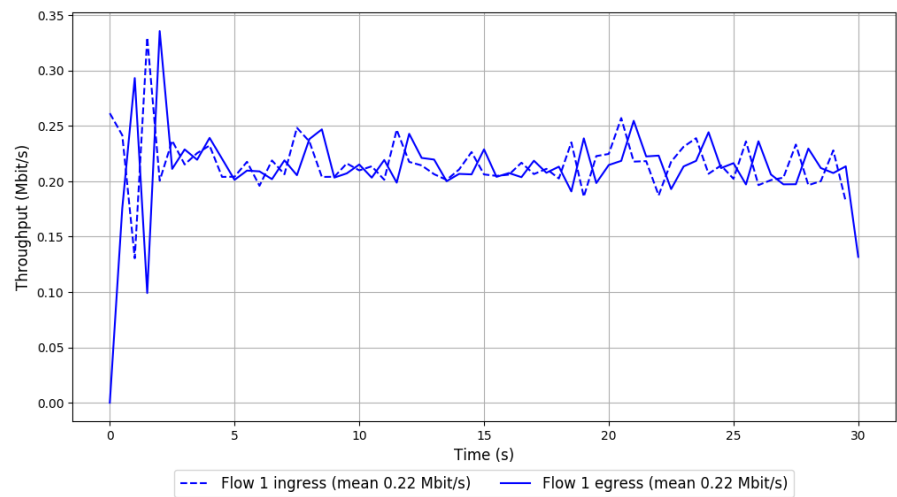
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.770 ms

Loss rate: 0.76%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-03-26 21:17:50

End at: 2019-03-26 21:18:20

Local clock offset: 0.682 ms

Remote clock offset: 1.619 ms

Below is generated by plot.py at 2019-03-26 23:02:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.007 ms

Loss rate: 0.77%

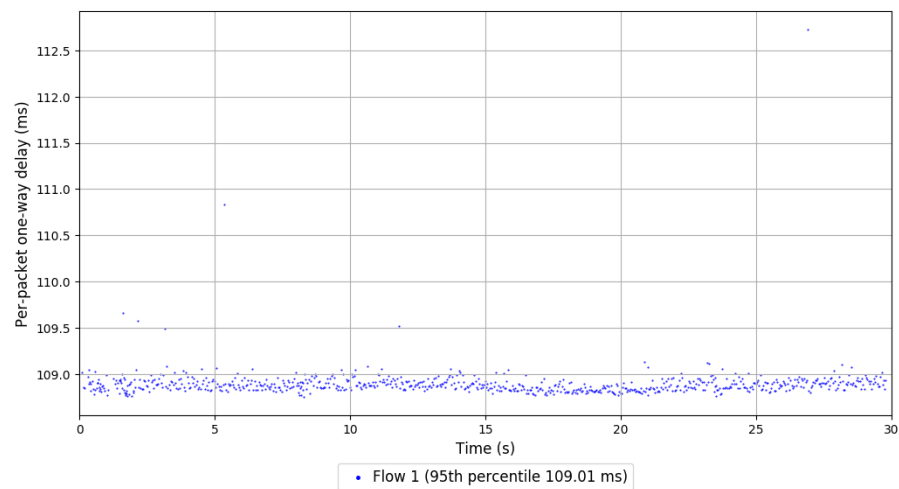
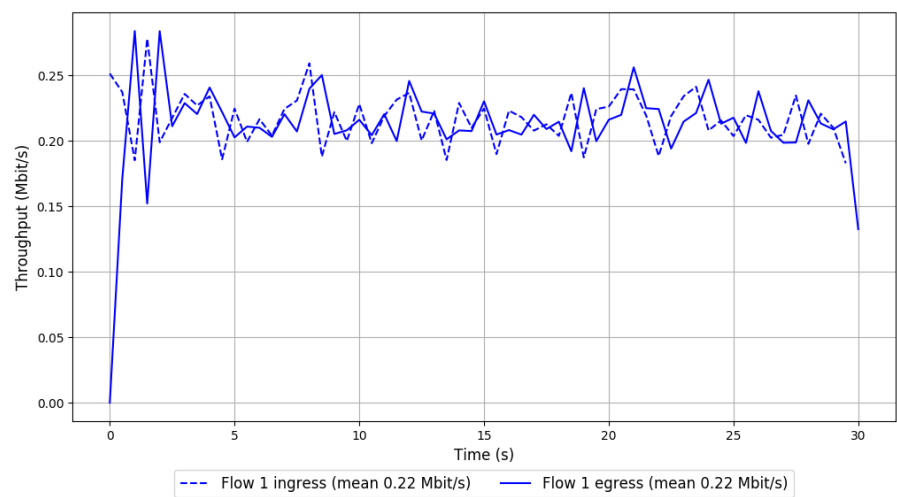
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.007 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-03-26 19:00:39

End at: 2019-03-26 19:01:09

Local clock offset: 12.868 ms

Remote clock offset: 14.44 ms

Below is generated by plot.py at 2019-03-26 23:02:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 108.171 ms

Loss rate: 0.76%

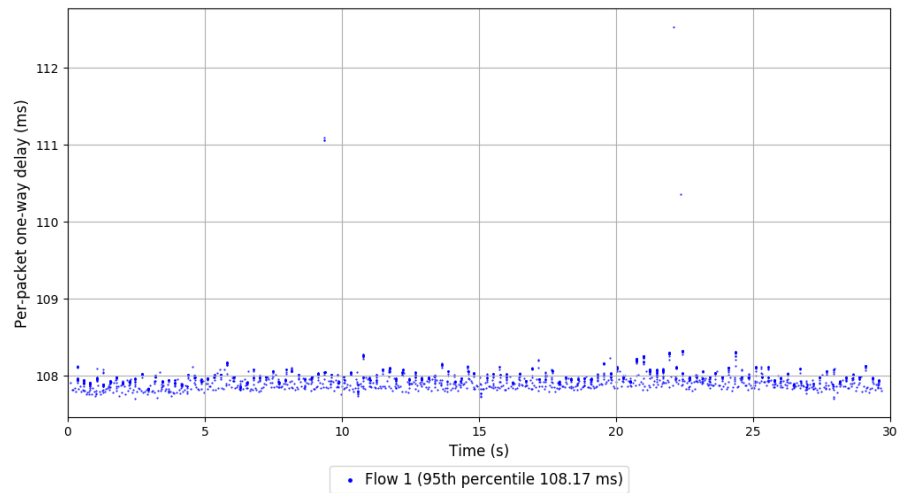
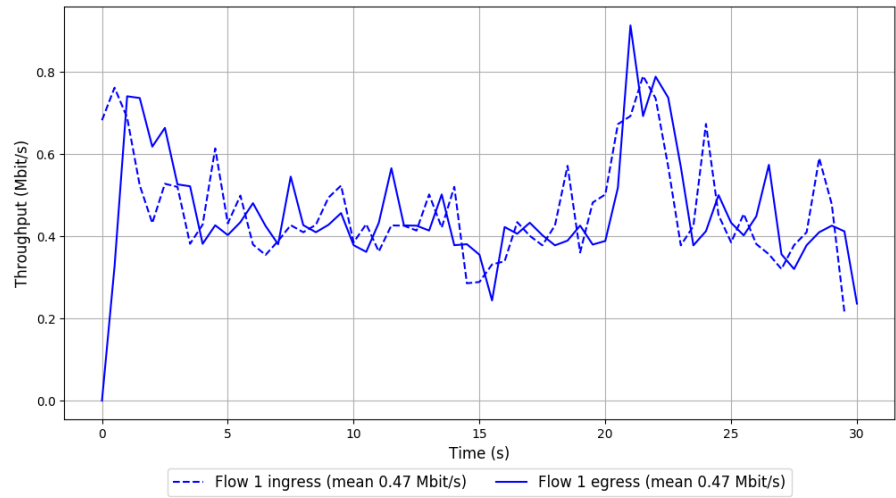
-- Flow 1:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 108.171 ms

Loss rate: 0.76%

Run 1: Report of Sprout — Data Link

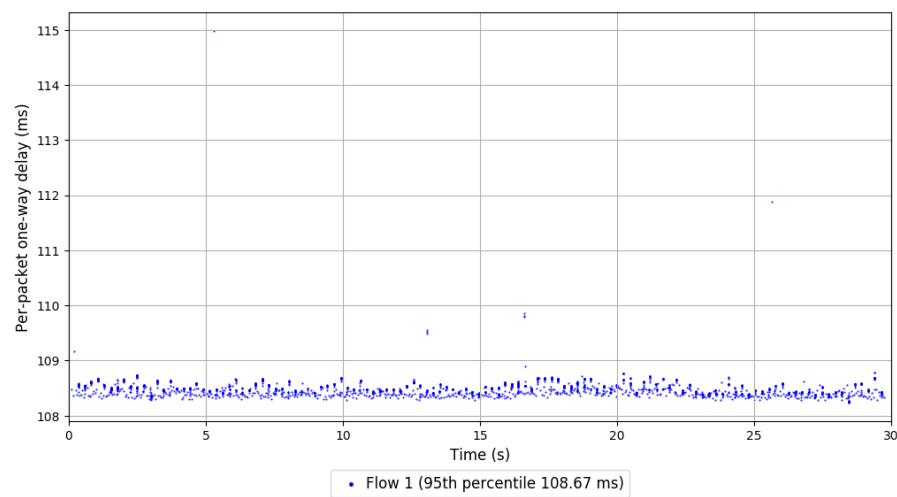
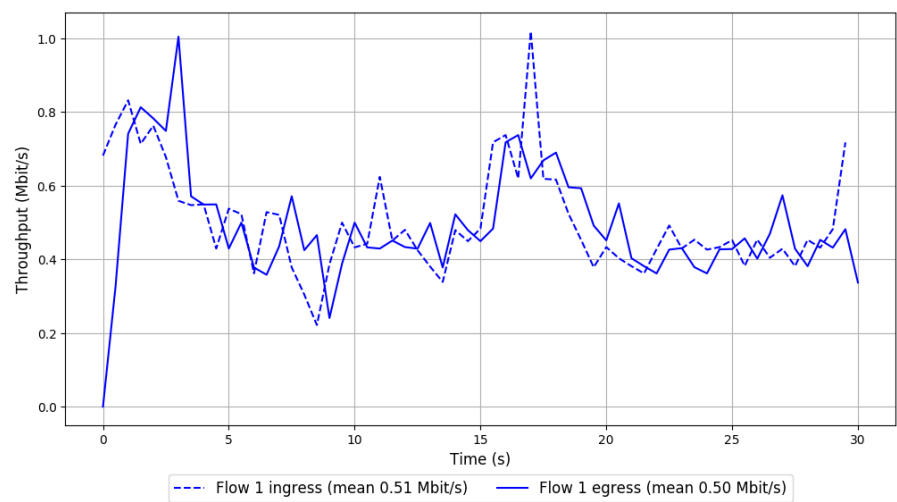


Run 2: Statistics of Sprout

Start at: 2019-03-26 19:32:57
End at: 2019-03-26 19:33:27
Local clock offset: 20.229 ms
Remote clock offset: 21.43 ms

Below is generated by plot.py at 2019-03-26 23:02:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 108.670 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 108.670 ms
Loss rate: 1.27%

Run 2: Report of Sprout — Data Link

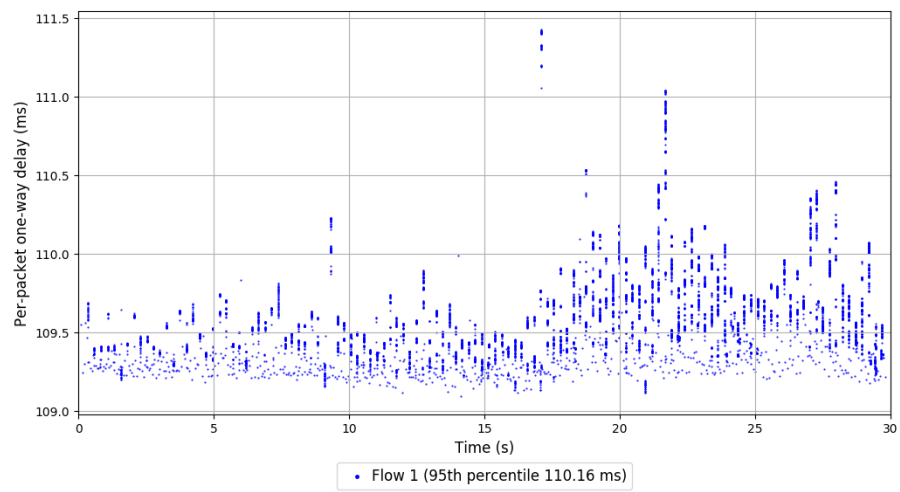
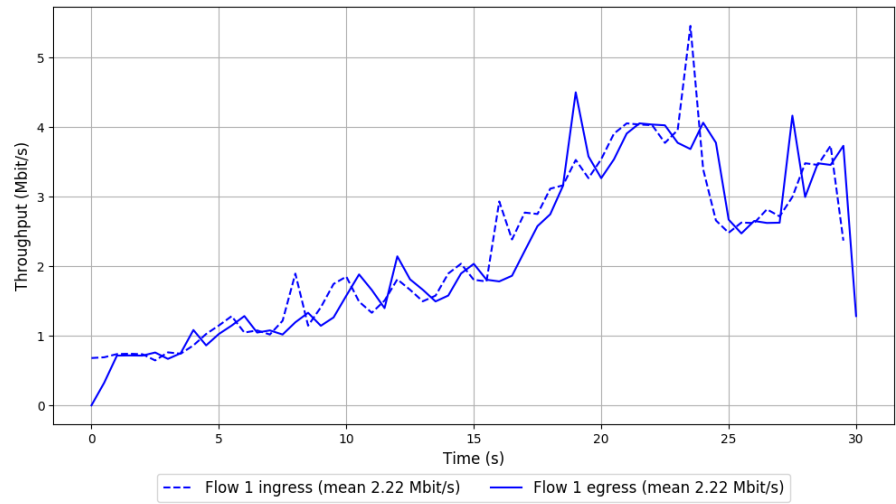


Run 3: Statistics of Sprout

Start at: 2019-03-26 20:05:32
End at: 2019-03-26 20:06:02
Local clock offset: 12.449 ms
Remote clock offset: 13.354 ms

Below is generated by plot.py at 2019-03-26 23:02:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 110.158 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 110.158 ms
Loss rate: 0.82%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-03-26 20:37:37

End at: 2019-03-26 20:38:07

Local clock offset: 4.259 ms

Remote clock offset: 4.543 ms

Below is generated by plot.py at 2019-03-26 23:02:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 110.372 ms

Loss rate: 0.92%

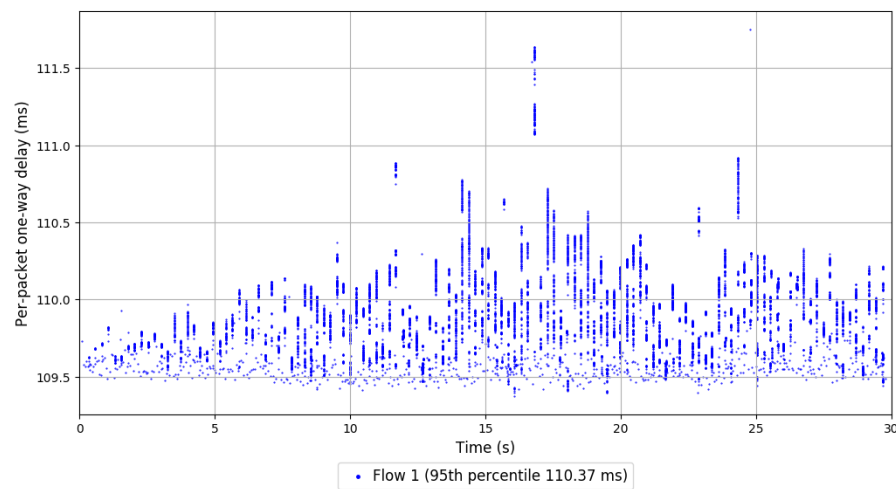
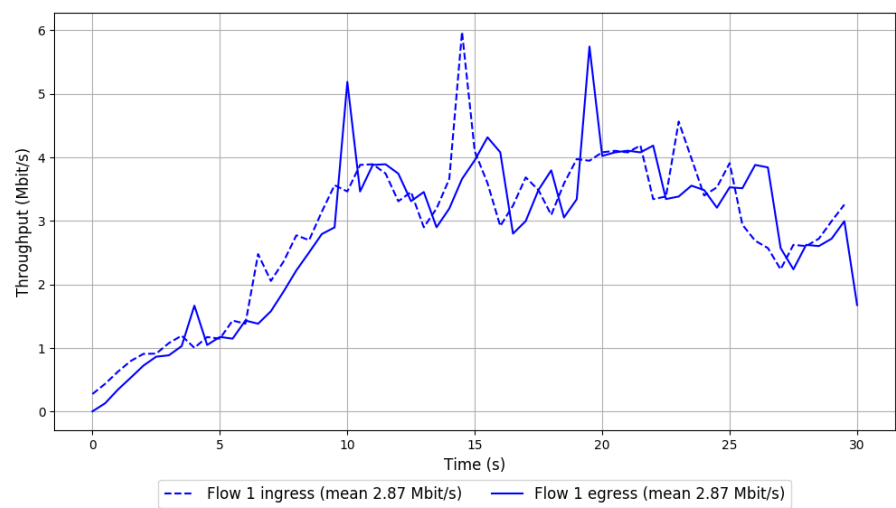
-- Flow 1:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 110.372 ms

Loss rate: 0.92%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-03-26 21:10:25

End at: 2019-03-26 21:10:55

Local clock offset: 2.102 ms

Remote clock offset: 2.208 ms

Below is generated by plot.py at 2019-03-26 23:02:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 109.021 ms

Loss rate: 0.52%

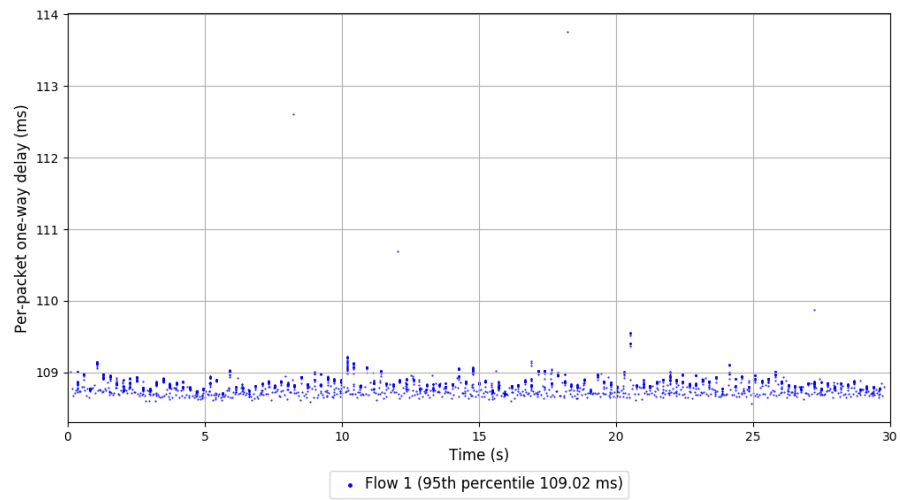
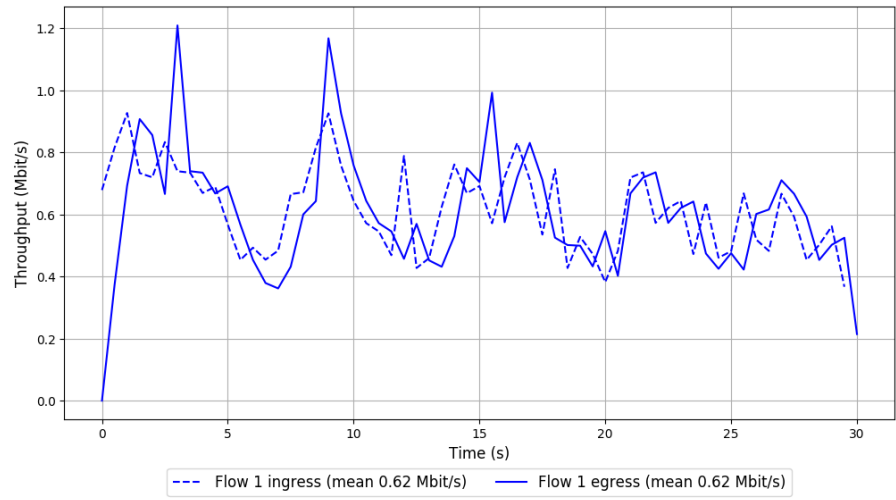
-- Flow 1:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 109.021 ms

Loss rate: 0.52%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-03-26 19:17:18

End at: 2019-03-26 19:17:48

Local clock offset: 22.667 ms

Remote clock offset: 23.665 ms

Below is generated by plot.py at 2019-03-26 23:02:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.81 Mbit/s

95th percentile per-packet one-way delay: 109.563 ms

Loss rate: 0.72%

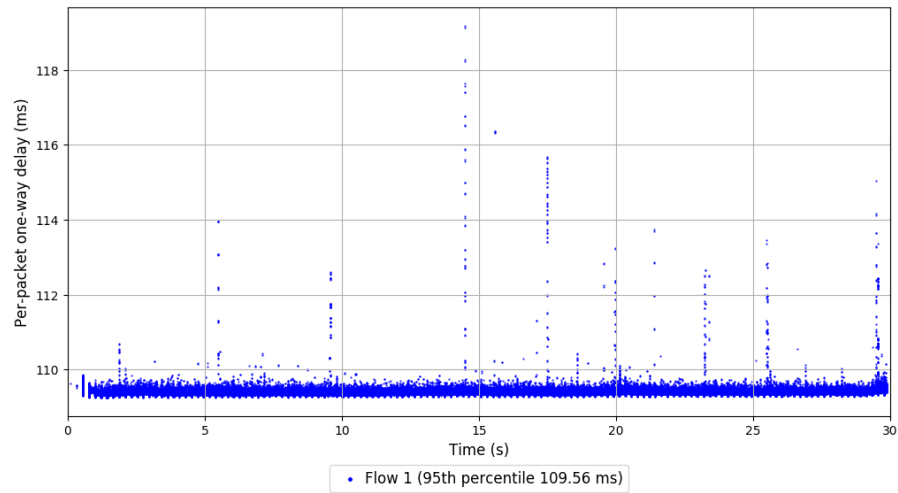
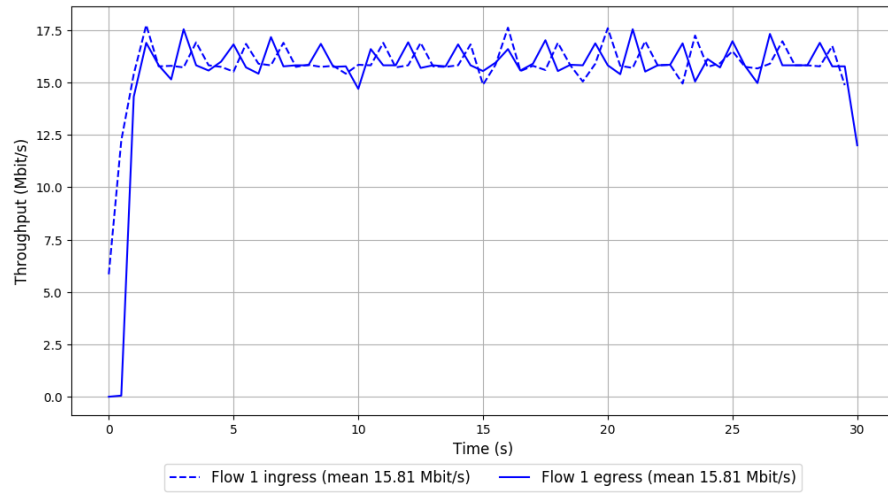
-- Flow 1:

Average throughput: 15.81 Mbit/s

95th percentile per-packet one-way delay: 109.563 ms

Loss rate: 0.72%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-03-26 19:50:24

End at: 2019-03-26 19:50:54

Local clock offset: 35.0 ms

Remote clock offset: 36.99 ms

Below is generated by plot.py at 2019-03-26 23:04:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.64 Mbit/s

95th percentile per-packet one-way delay: 108.697 ms

Loss rate: 0.73%

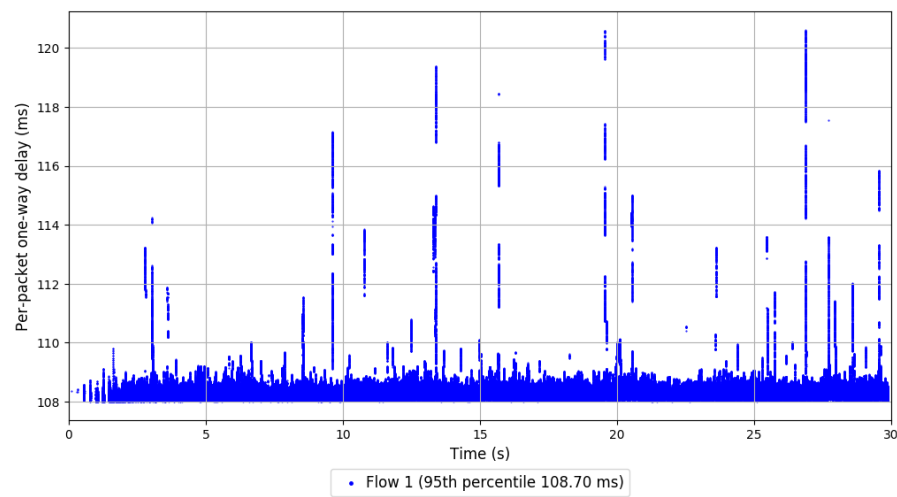
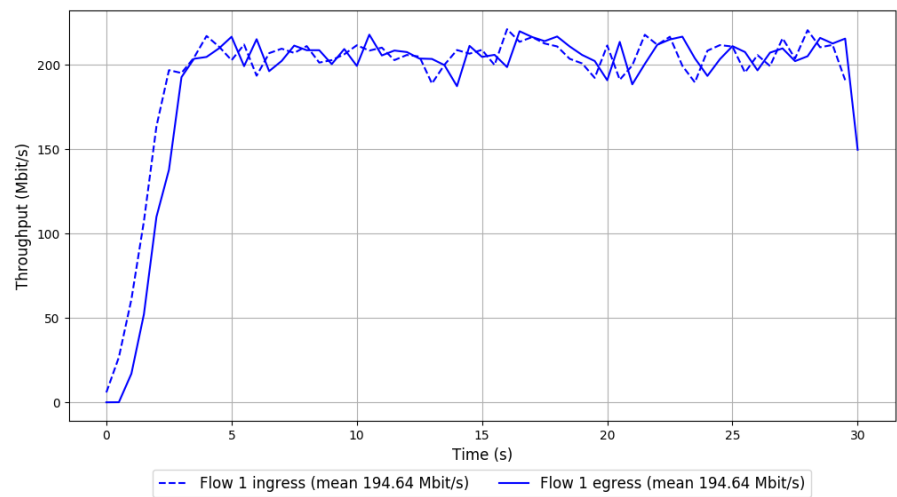
-- Flow 1:

Average throughput: 194.64 Mbit/s

95th percentile per-packet one-way delay: 108.697 ms

Loss rate: 0.73%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-03-26 20:22:08

End at: 2019-03-26 20:22:38

Local clock offset: 8.917 ms

Remote clock offset: 9.423 ms

Below is generated by plot.py at 2019-03-26 23:04:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.49 Mbit/s

95th percentile per-packet one-way delay: 109.885 ms

Loss rate: 0.70%

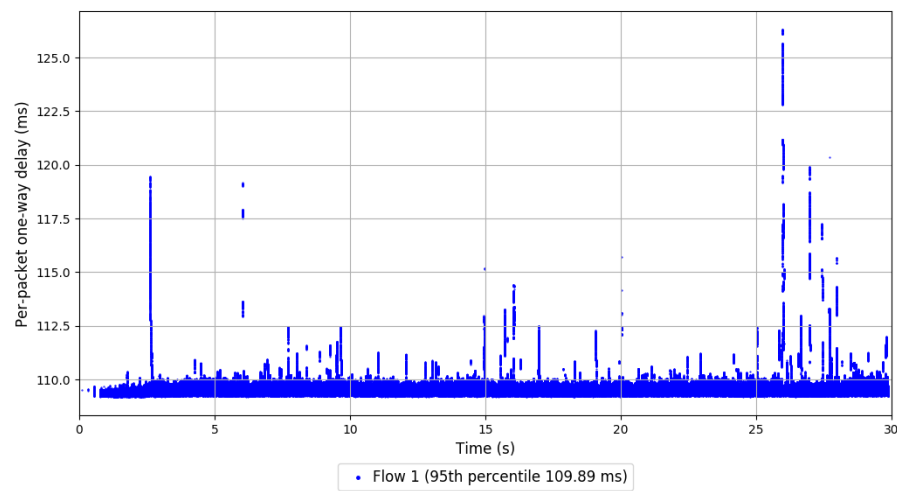
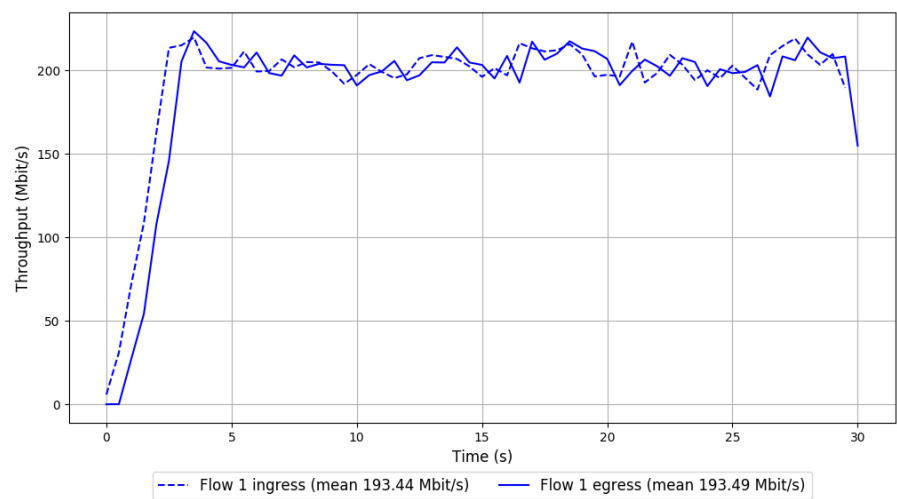
-- Flow 1:

Average throughput: 193.49 Mbit/s

95th percentile per-packet one-way delay: 109.885 ms

Loss rate: 0.70%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-03-26 20:55:16

End at: 2019-03-26 20:55:46

Local clock offset: 3.495 ms

Remote clock offset: 4.383 ms

Below is generated by plot.py at 2019-03-26 23:04:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.66 Mbit/s

95th percentile per-packet one-way delay: 109.376 ms

Loss rate: 0.63%

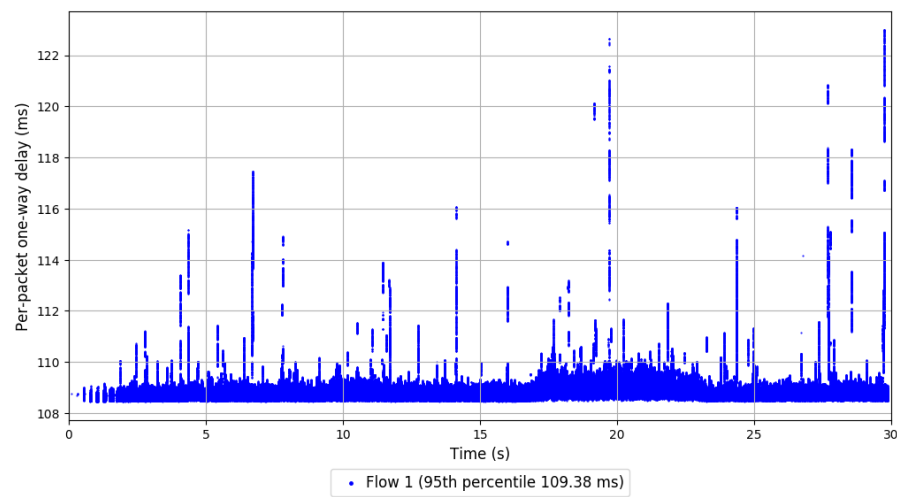
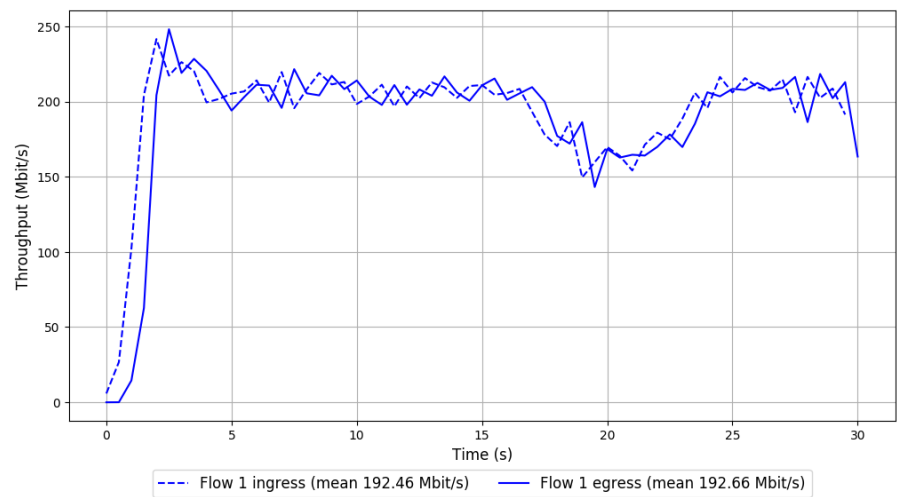
-- Flow 1:

Average throughput: 192.66 Mbit/s

95th percentile per-packet one-way delay: 109.376 ms

Loss rate: 0.63%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-03-26 21:26:58

End at: 2019-03-26 21:27:28

Local clock offset: 1.562 ms

Remote clock offset: 1.697 ms

Below is generated by plot.py at 2019-03-26 23:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.83 Mbit/s

95th percentile per-packet one-way delay: 110.223 ms

Loss rate: 0.72%

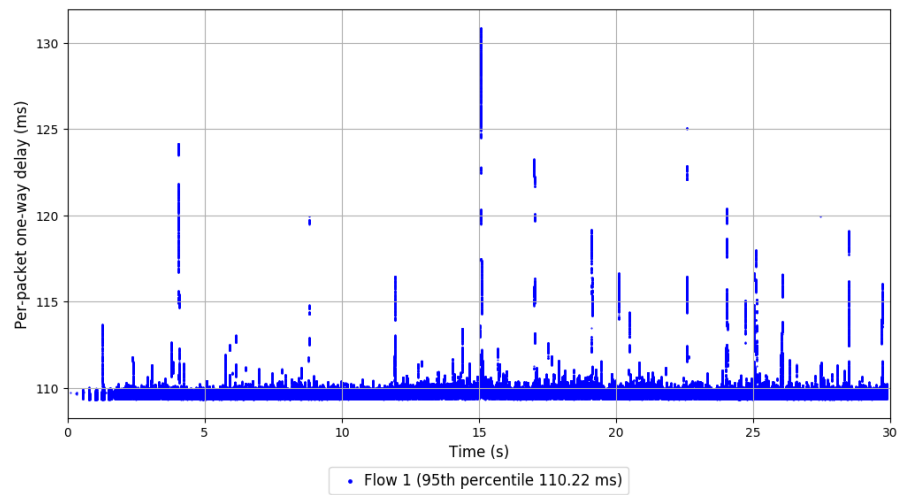
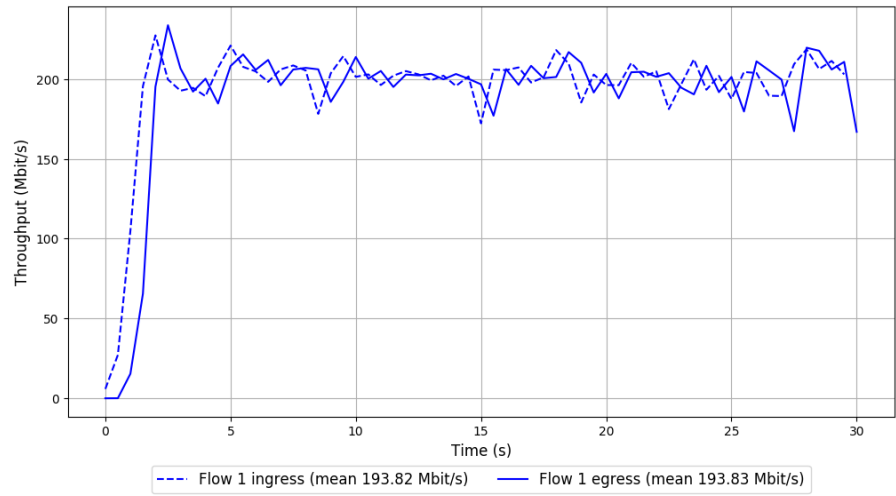
-- Flow 1:

Average throughput: 193.83 Mbit/s

95th percentile per-packet one-way delay: 110.223 ms

Loss rate: 0.72%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-03-26 18:54:55

End at: 2019-03-26 18:55:25

Local clock offset: 9.053 ms

Remote clock offset: 9.814 ms

Below is generated by plot.py at 2019-03-26 23:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.76 Mbit/s

95th percentile per-packet one-way delay: 112.141 ms

Loss rate: 0.71%

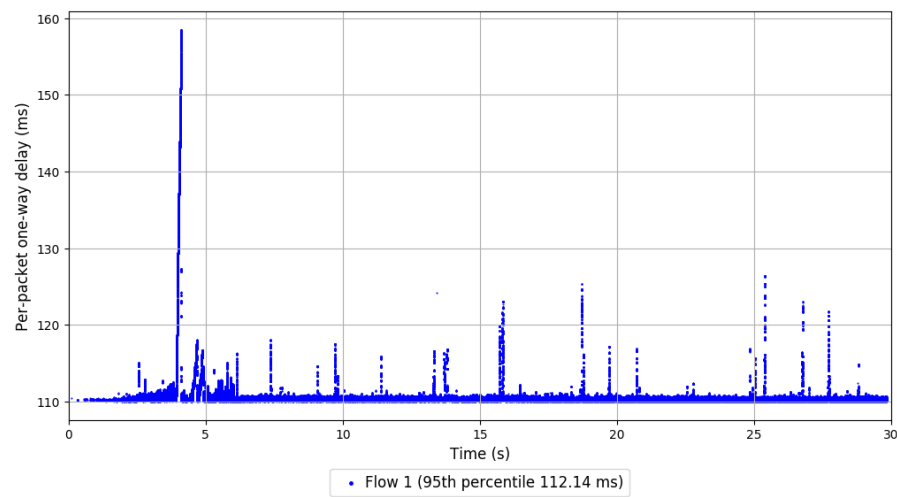
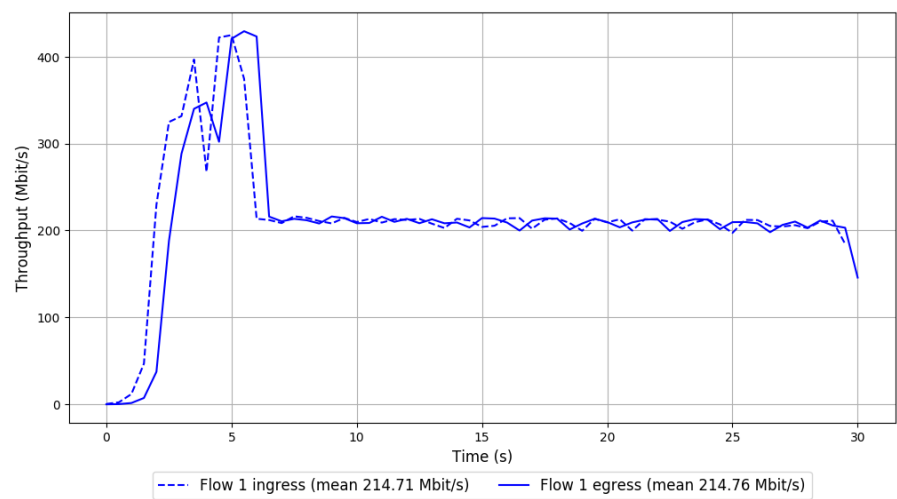
-- Flow 1:

Average throughput: 214.76 Mbit/s

95th percentile per-packet one-way delay: 112.141 ms

Loss rate: 0.71%

Run 1: Report of TCP Vegas — Data Link

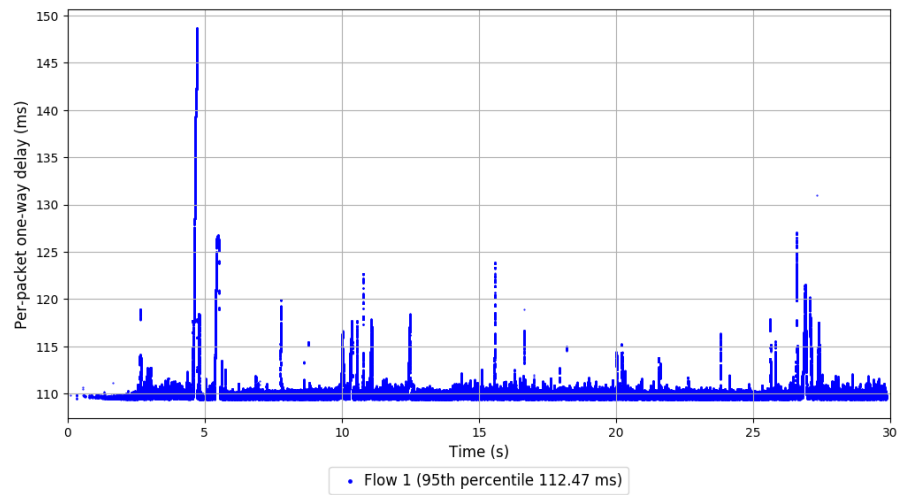
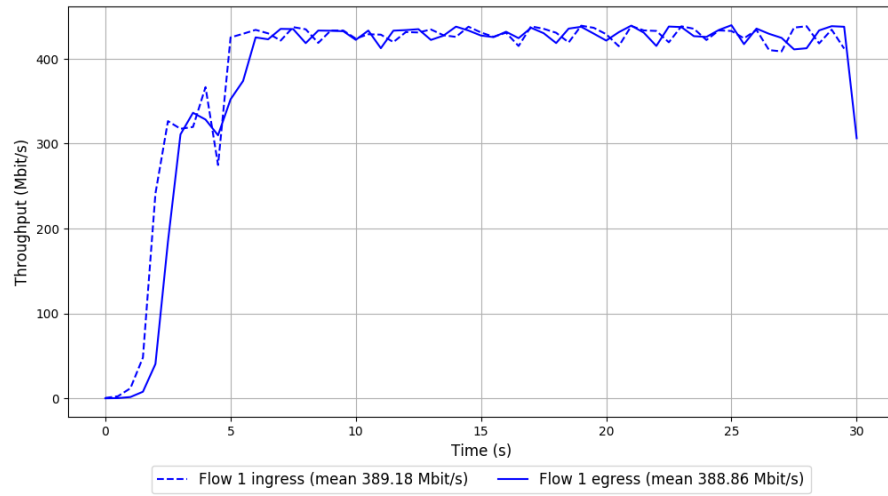


Run 2: Statistics of TCP Vegas

Start at: 2019-03-26 19:26:52
End at: 2019-03-26 19:27:22
Local clock offset: 19.236 ms
Remote clock offset: 20.101 ms

Below is generated by plot.py at 2019-03-26 23:08:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 388.86 Mbit/s
95th percentile per-packet one-way delay: 112.469 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 388.86 Mbit/s
95th percentile per-packet one-way delay: 112.469 ms
Loss rate: 0.81%

Run 2: Report of TCP Vegas — Data Link

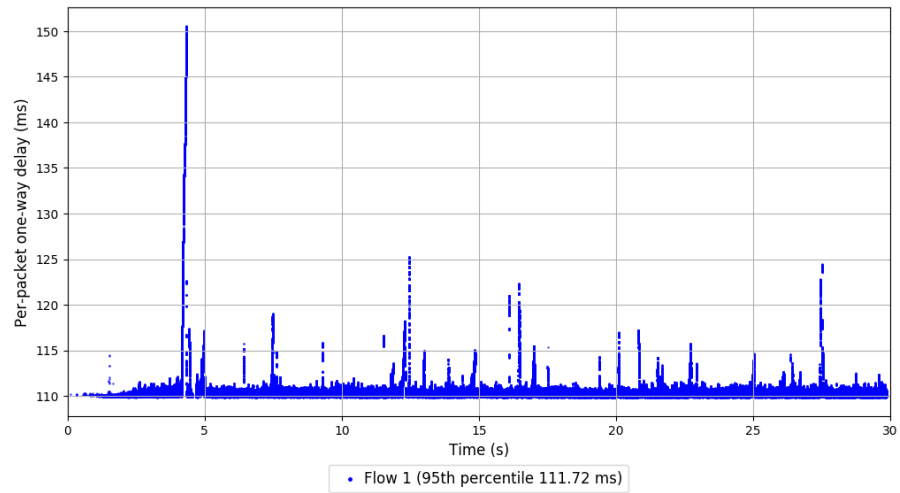
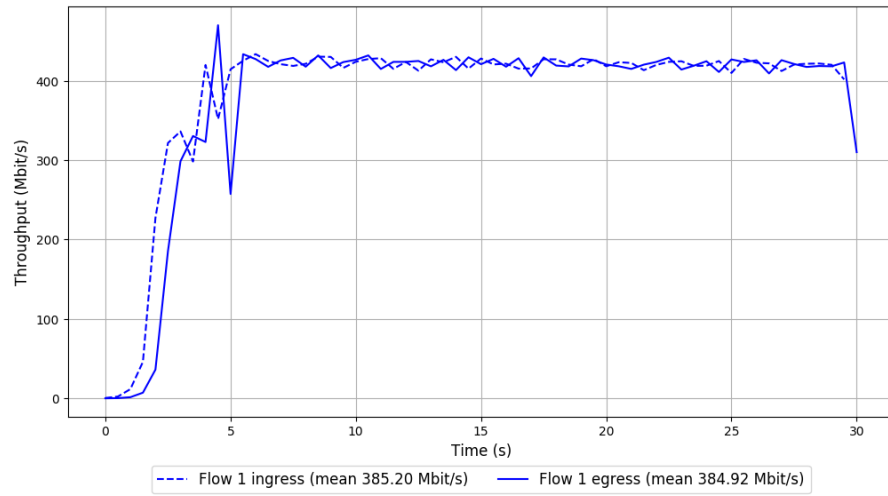


Run 3: Statistics of TCP Vegas

Start at: 2019-03-26 19:59:46
End at: 2019-03-26 20:00:16
Local clock offset: 21.345 ms
Remote clock offset: 21.721 ms

Below is generated by plot.py at 2019-03-26 23:09:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 384.92 Mbit/s
95th percentile per-packet one-way delay: 111.724 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 384.92 Mbit/s
95th percentile per-packet one-way delay: 111.724 ms
Loss rate: 0.80%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-03-26 20:31:31

End at: 2019-03-26 20:32:01

Local clock offset: 6.912 ms

Remote clock offset: 7.105 ms

Below is generated by plot.py at 2019-03-26 23:10:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.89 Mbit/s

95th percentile per-packet one-way delay: 112.003 ms

Loss rate: 0.81%

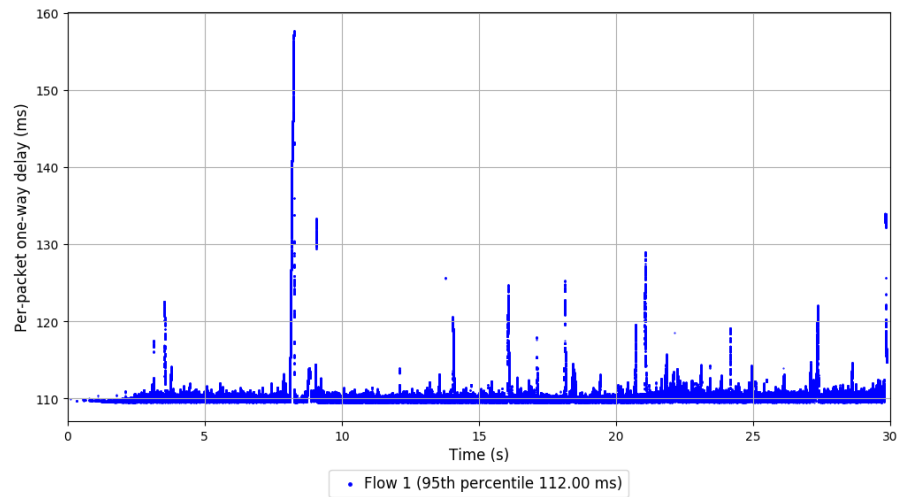
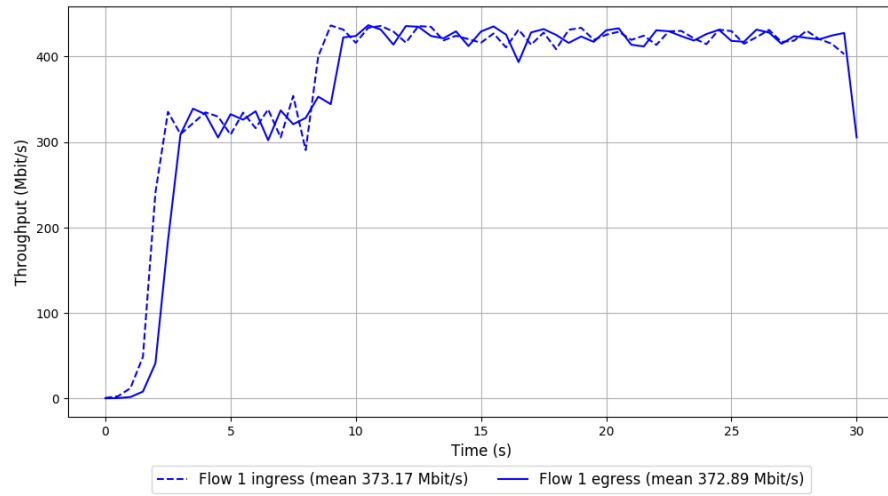
-- Flow 1:

Average throughput: 372.89 Mbit/s

95th percentile per-packet one-way delay: 112.003 ms

Loss rate: 0.81%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-03-26 21:04:43

End at: 2019-03-26 21:05:13

Local clock offset: 3.277 ms

Remote clock offset: 3.557 ms

Below is generated by plot.py at 2019-03-26 23:10:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.28 Mbit/s

95th percentile per-packet one-way delay: 109.964 ms

Loss rate: 0.78%

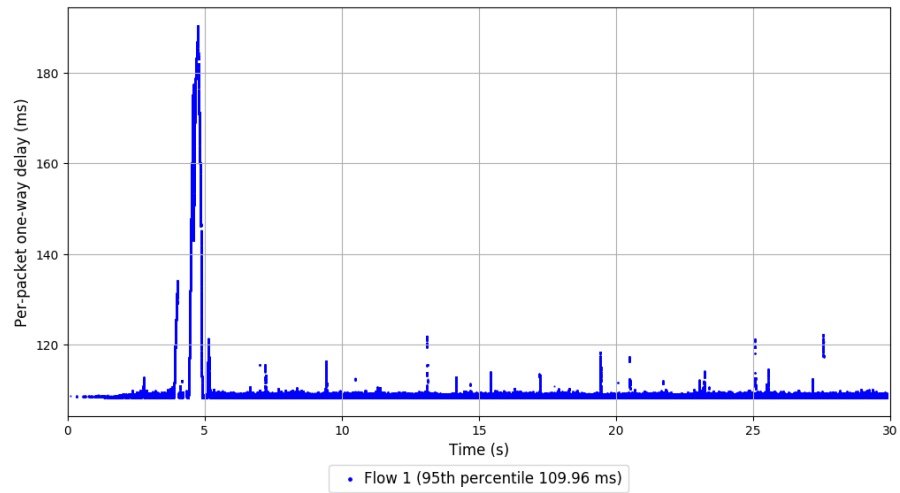
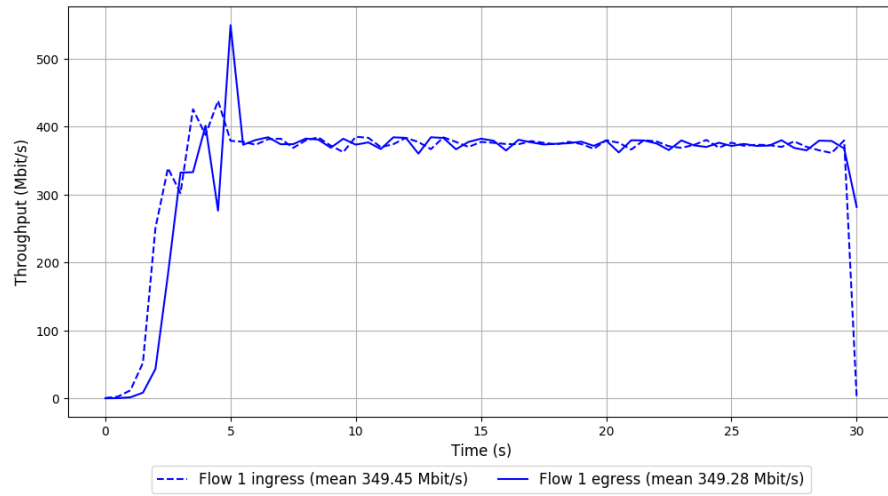
-- Flow 1:

Average throughput: 349.28 Mbit/s

95th percentile per-packet one-way delay: 109.964 ms

Loss rate: 0.78%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-03-26 18:53:31

End at: 2019-03-26 18:54:01

Local clock offset: 9.856 ms

Remote clock offset: 10.84 ms

Below is generated by plot.py at 2019-03-26 23:10:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.29 Mbit/s

95th percentile per-packet one-way delay: 231.106 ms

Loss rate: 2.28%

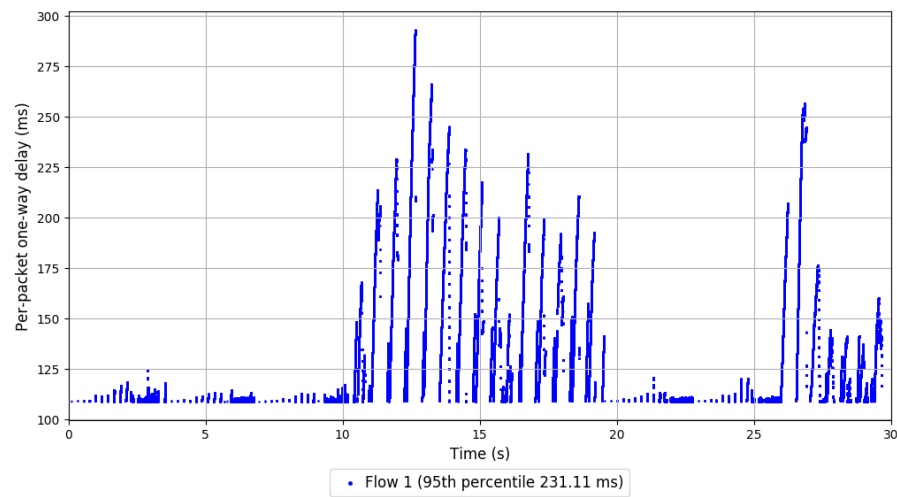
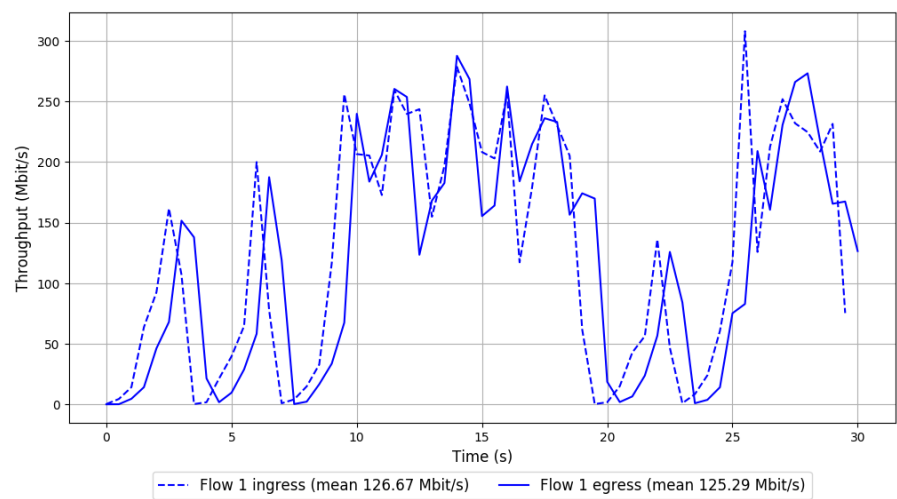
-- Flow 1:

Average throughput: 125.29 Mbit/s

95th percentile per-packet one-way delay: 231.106 ms

Loss rate: 2.28%

Run 1: Report of Verus — Data Link

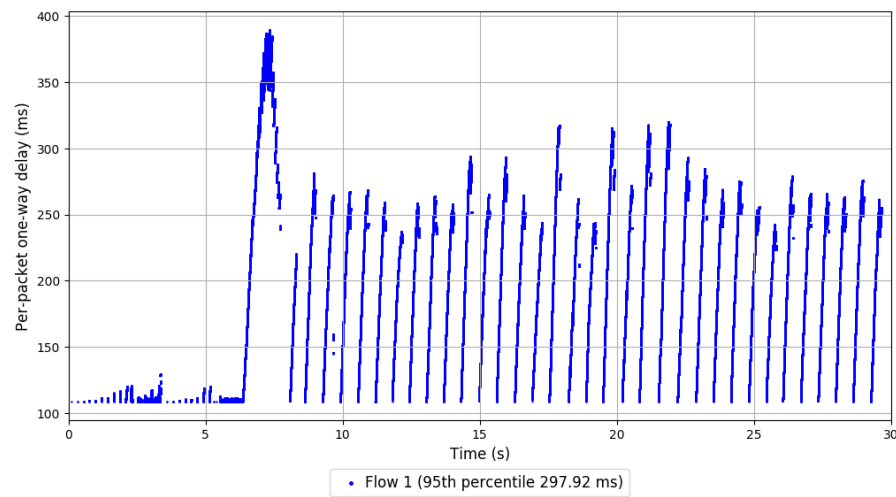
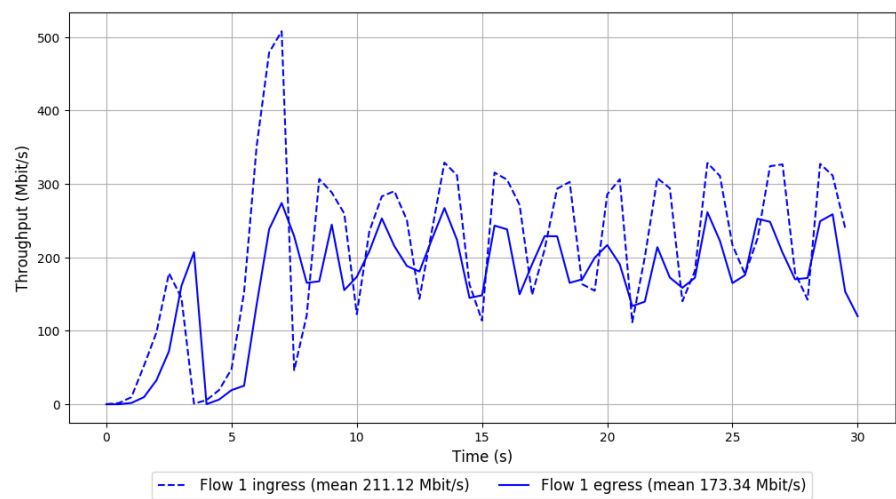


Run 2: Statistics of Verus

Start at: 2019-03-26 19:25:14
End at: 2019-03-26 19:25:44
Local clock offset: 18.999 ms
Remote clock offset: 20.516 ms

Below is generated by plot.py at 2019-03-26 23:11:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 173.34 Mbit/s
95th percentile per-packet one-way delay: 297.915 ms
Loss rate: 19.08%
-- Flow 1:
Average throughput: 173.34 Mbit/s
95th percentile per-packet one-way delay: 297.915 ms
Loss rate: 19.08%

Run 2: Report of Verus — Data Link

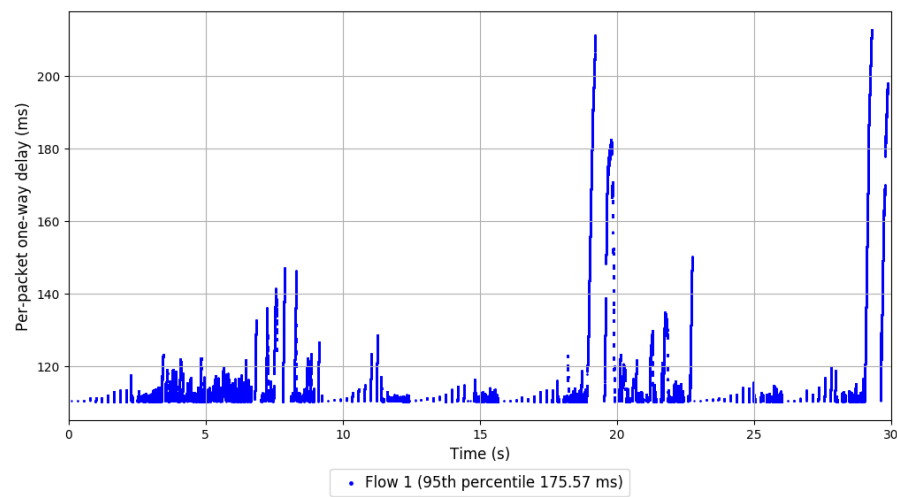
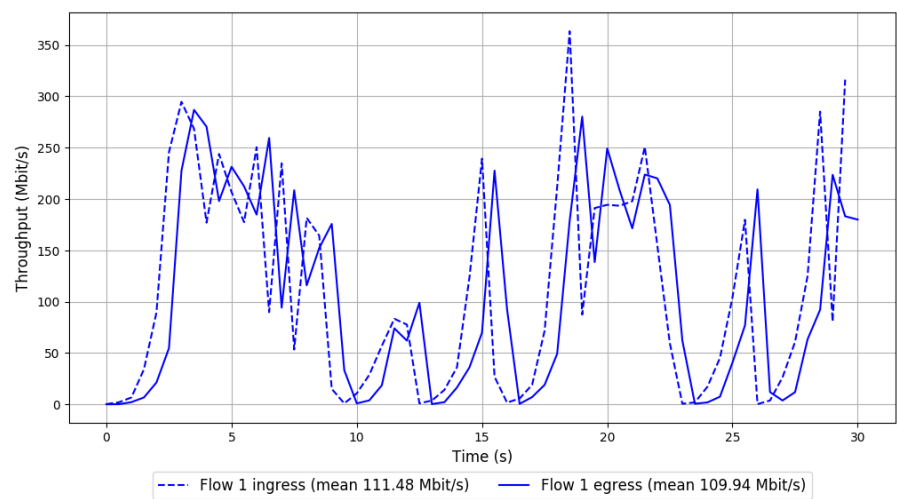


Run 3: Statistics of Verus

Start at: 2019-03-26 19:58:24
End at: 2019-03-26 19:58:54
Local clock offset: 24.566 ms
Remote clock offset: 24.66 ms

Below is generated by plot.py at 2019-03-26 23:11:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 109.94 Mbit/s
95th percentile per-packet one-way delay: 175.573 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 109.94 Mbit/s
95th percentile per-packet one-way delay: 175.573 ms
Loss rate: 2.10%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-03-26 20:30:09

End at: 2019-03-26 20:30:40

Local clock offset: 8.174 ms

Remote clock offset: 8.124 ms

Below is generated by plot.py at 2019-03-26 23:11:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.66 Mbit/s

95th percentile per-packet one-way delay: 143.188 ms

Loss rate: 0.96%

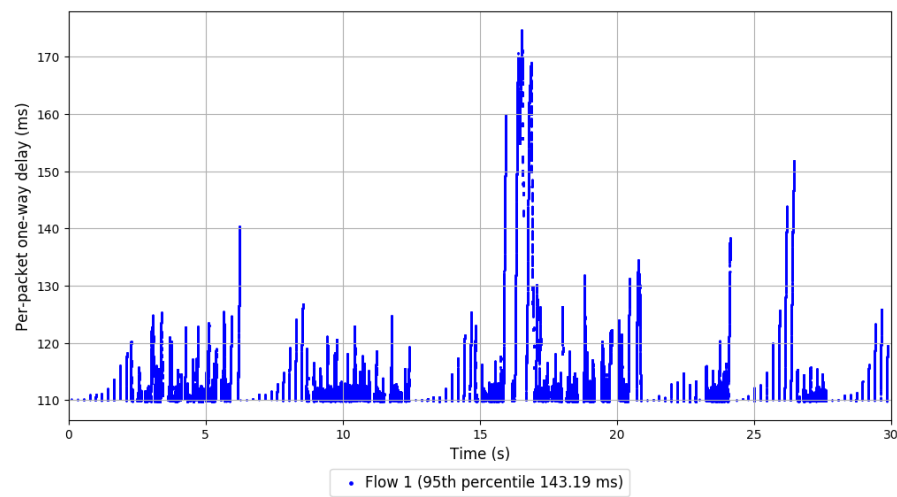
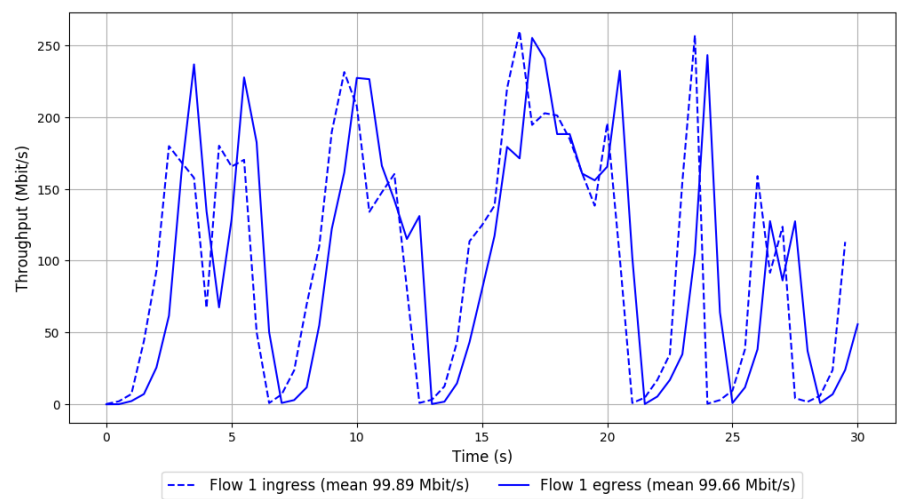
-- Flow 1:

Average throughput: 99.66 Mbit/s

95th percentile per-packet one-way delay: 143.188 ms

Loss rate: 0.96%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-03-26 21:03:24

End at: 2019-03-26 21:03:54

Local clock offset: 3.786 ms

Remote clock offset: 4.062 ms

Below is generated by plot.py at 2019-03-26 23:11:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 140.851 ms

Loss rate: 0.02%

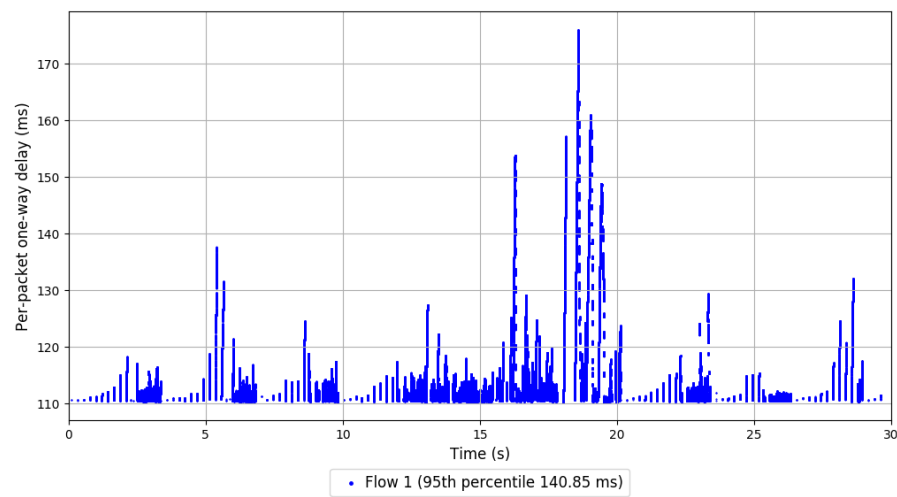
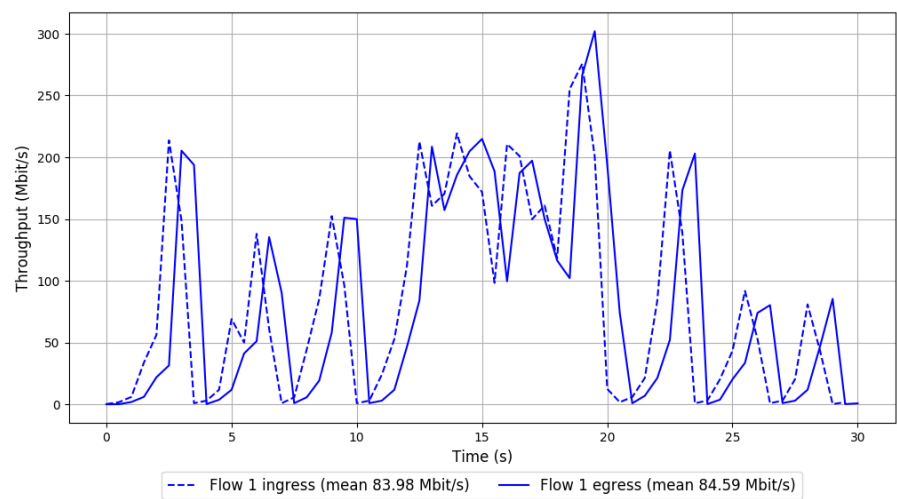
-- Flow 1:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 140.851 ms

Loss rate: 0.02%

Run 5: Report of Verus — Data Link

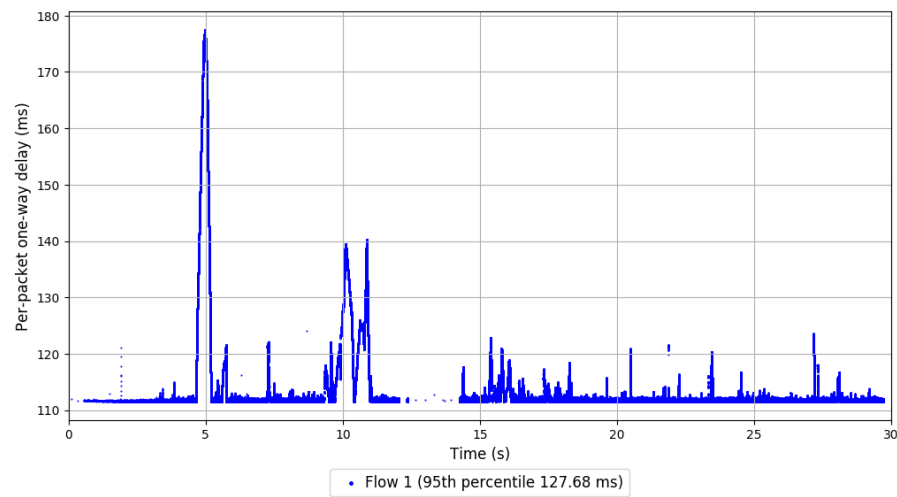
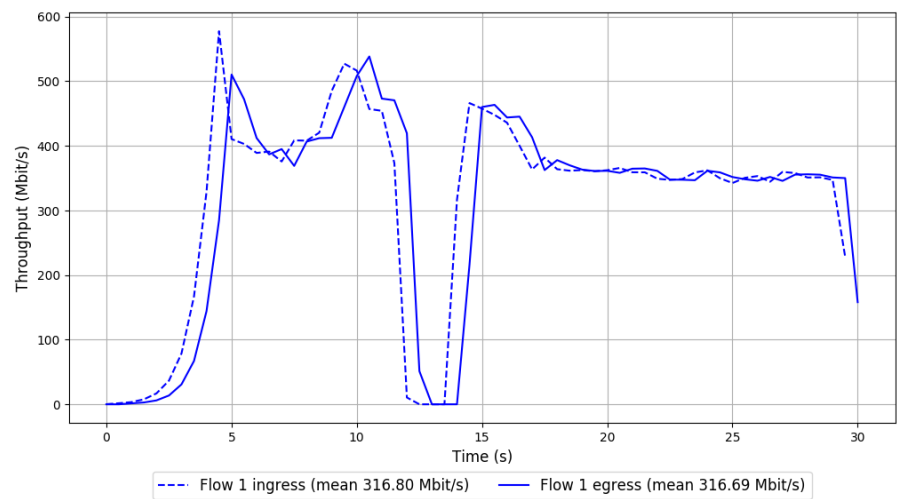


Run 1: Statistics of PCC-Vivace

Start at: 2019-03-26 19:14:10
End at: 2019-03-26 19:14:40
Local clock offset: 18.548 ms
Remote clock offset: 19.439 ms

Below is generated by plot.py at 2019-03-26 23:13:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 316.69 Mbit/s
95th percentile per-packet one-way delay: 127.684 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 316.69 Mbit/s
95th percentile per-packet one-way delay: 127.684 ms
Loss rate: 0.77%

Run 1: Report of PCC-Vivace — Data Link

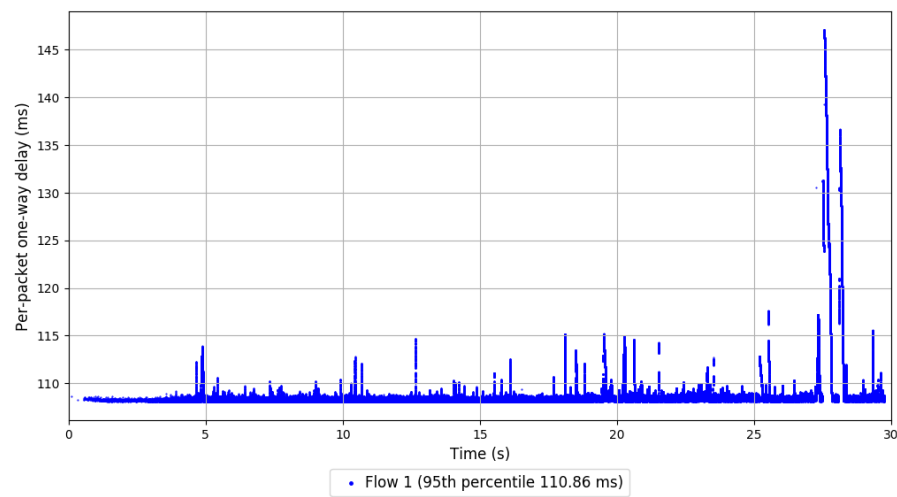
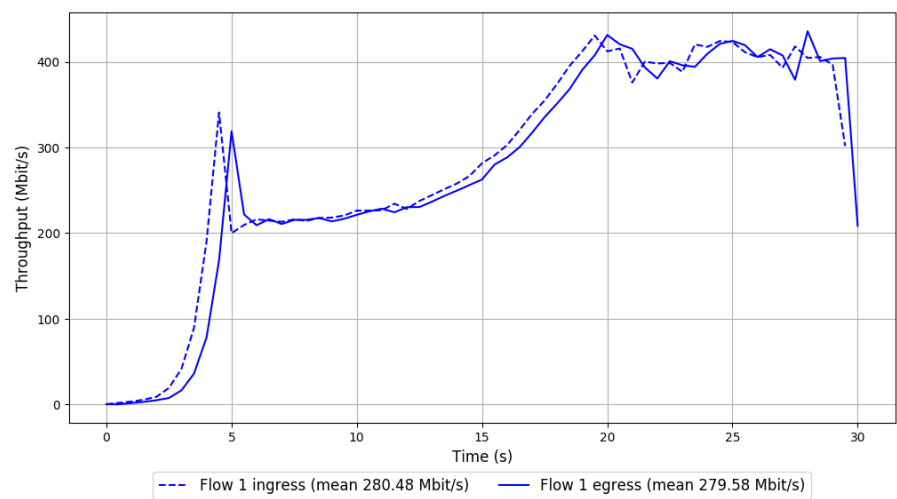


Run 2: Statistics of PCC-Vivace

Start at: 2019-03-26 19:46:58
End at: 2019-03-26 19:47:28
Local clock offset: 31.507 ms
Remote clock offset: 33.246 ms

Below is generated by plot.py at 2019-03-26 23:13:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 279.58 Mbit/s
95th percentile per-packet one-way delay: 110.860 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 279.58 Mbit/s
95th percentile per-packet one-way delay: 110.860 ms
Loss rate: 1.05%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-03-26 20:19:00

End at: 2019-03-26 20:19:30

Local clock offset: 8.56 ms

Remote clock offset: 9.172 ms

Below is generated by plot.py at 2019-03-26 23:13:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.53 Mbit/s

95th percentile per-packet one-way delay: 113.590 ms

Loss rate: 0.94%

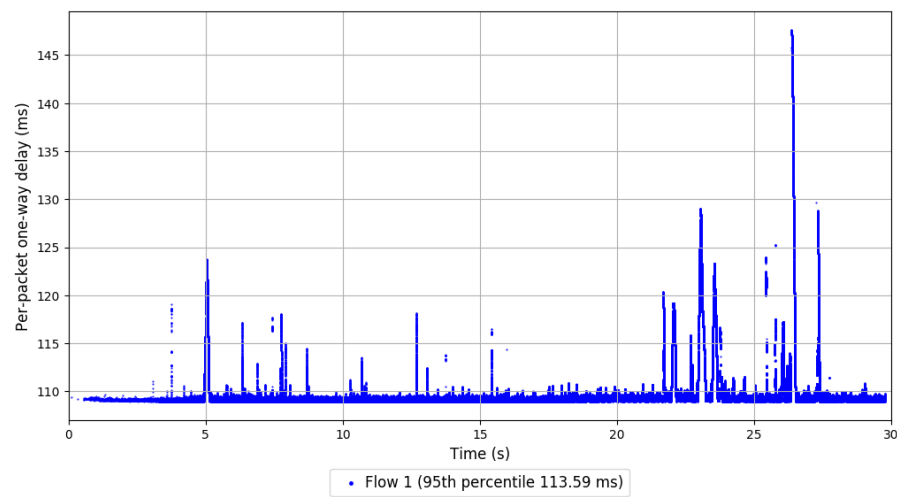
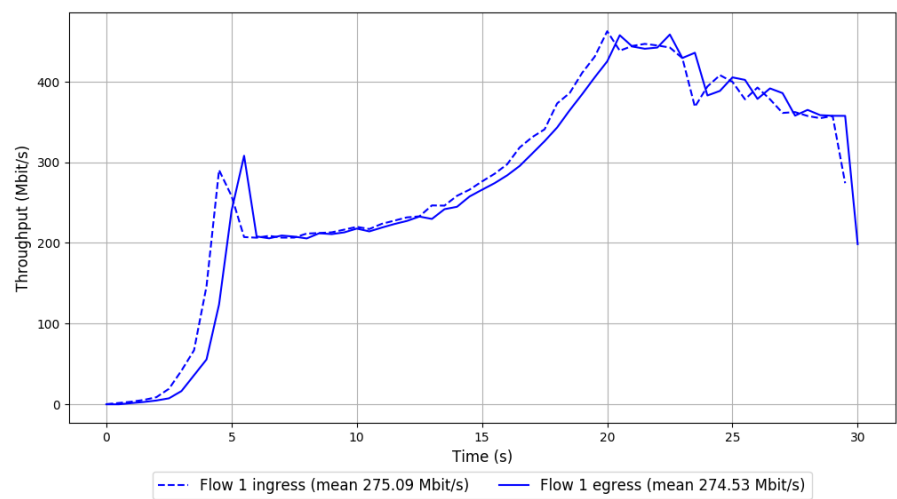
-- Flow 1:

Average throughput: 274.53 Mbit/s

95th percentile per-packet one-way delay: 113.590 ms

Loss rate: 0.94%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-03-26 20:51:50

End at: 2019-03-26 20:52:20

Local clock offset: 3.321 ms

Remote clock offset: 3.743 ms

Below is generated by plot.py at 2019-03-26 23:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 312.33 Mbit/s

95th percentile per-packet one-way delay: 115.582 ms

Loss rate: 0.85%

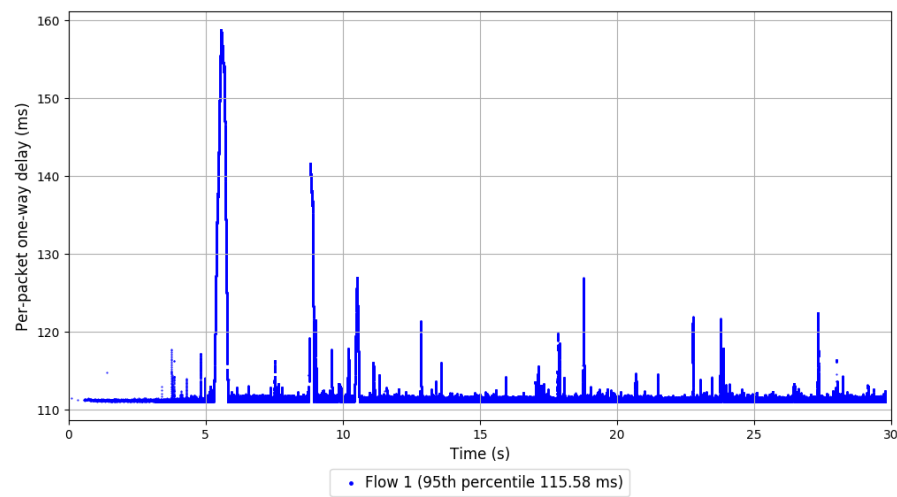
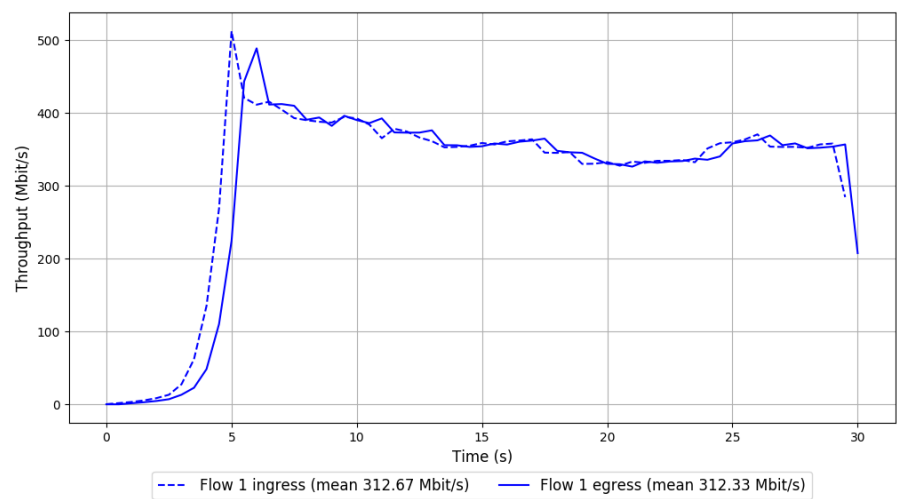
-- Flow 1:

Average throughput: 312.33 Mbit/s

95th percentile per-packet one-way delay: 115.582 ms

Loss rate: 0.85%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-03-26 21:23:56

End at: 2019-03-26 21:24:26

Local clock offset: 1.521 ms

Remote clock offset: 1.625 ms

Below is generated by plot.py at 2019-03-26 23:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.49 Mbit/s

95th percentile per-packet one-way delay: 111.004 ms

Loss rate: 1.06%

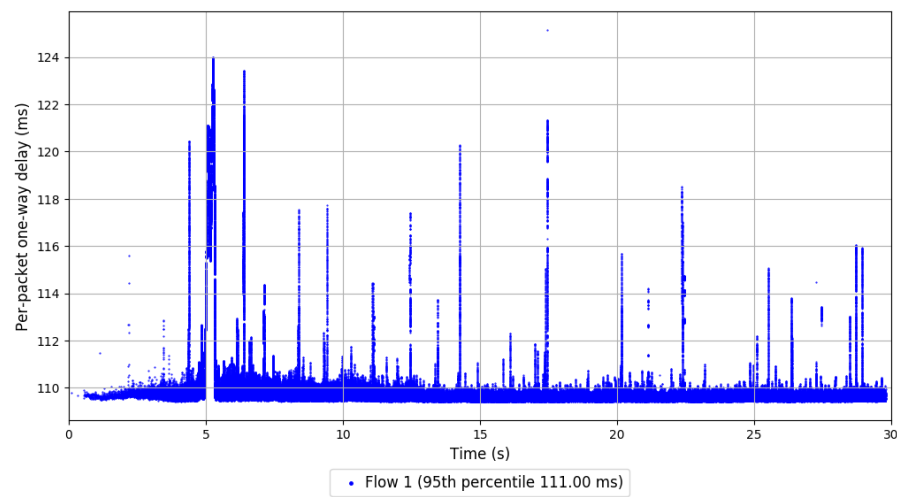
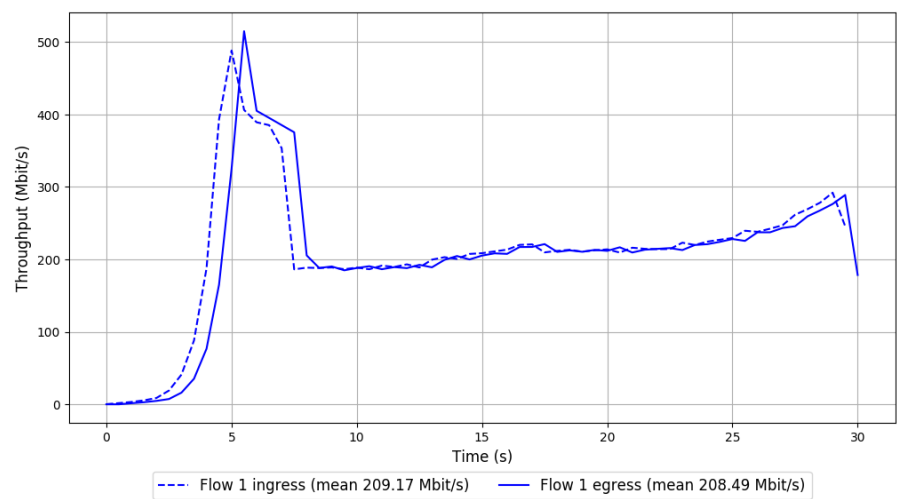
-- Flow 1:

Average throughput: 208.49 Mbit/s

95th percentile per-packet one-way delay: 111.004 ms

Loss rate: 1.06%

Run 5: Report of PCC-Vivace — Data Link

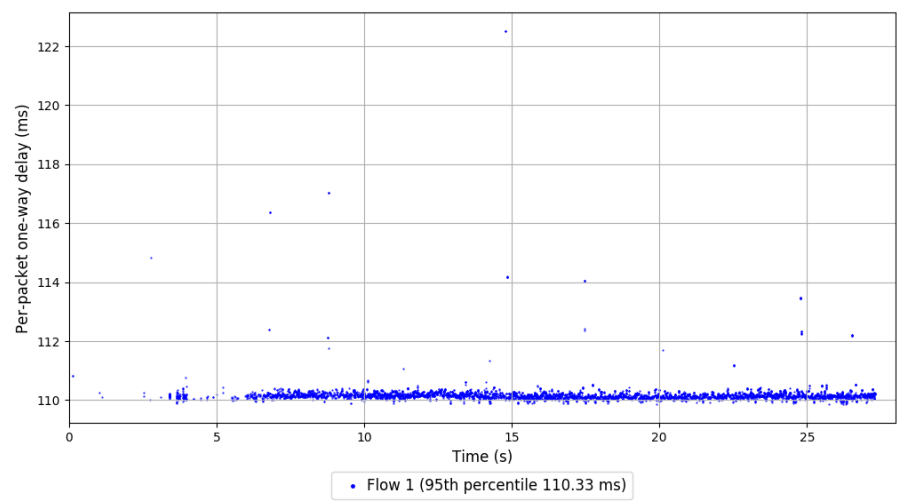
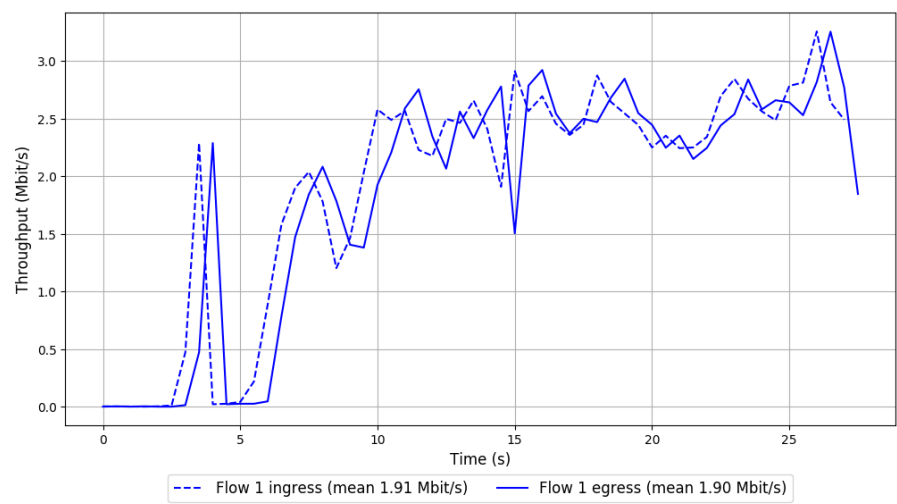


Run 1: Statistics of WebRTC media

Start at: 2019-03-26 19:03:36
End at: 2019-03-26 19:04:06
Local clock offset: 15.347 ms
Remote clock offset: 15.464 ms

Below is generated by plot.py at 2019-03-26 23:13:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 110.332 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 110.332 ms
Loss rate: 1.20%

Run 1: Report of WebRTC media — Data Link

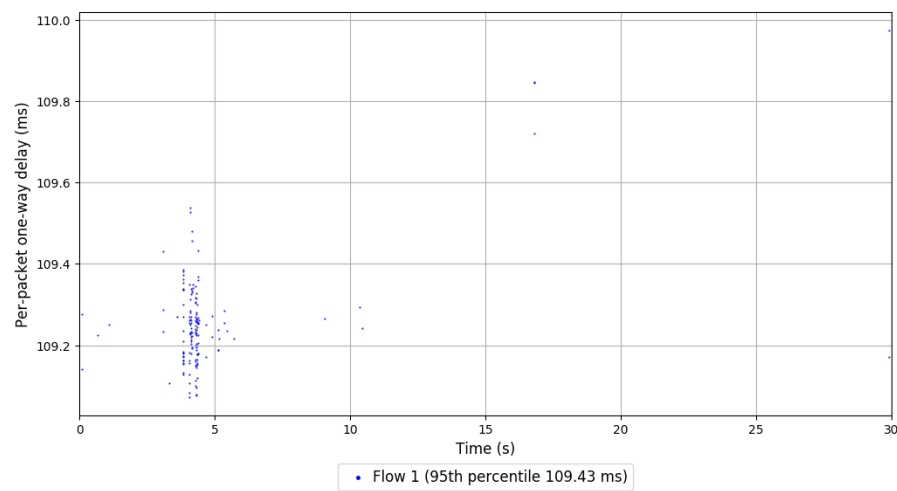
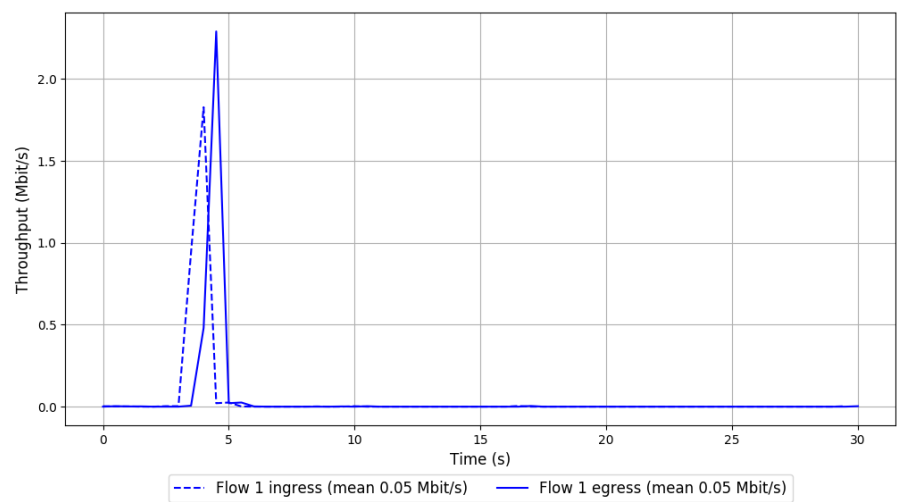


Run 2: Statistics of WebRTC media

Start at: 2019-03-26 19:36:11
End at: 2019-03-26 19:36:41
Local clock offset: 22.062 ms
Remote clock offset: 23.418 ms

Below is generated by plot.py at 2019-03-26 23:13:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.434 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.434 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

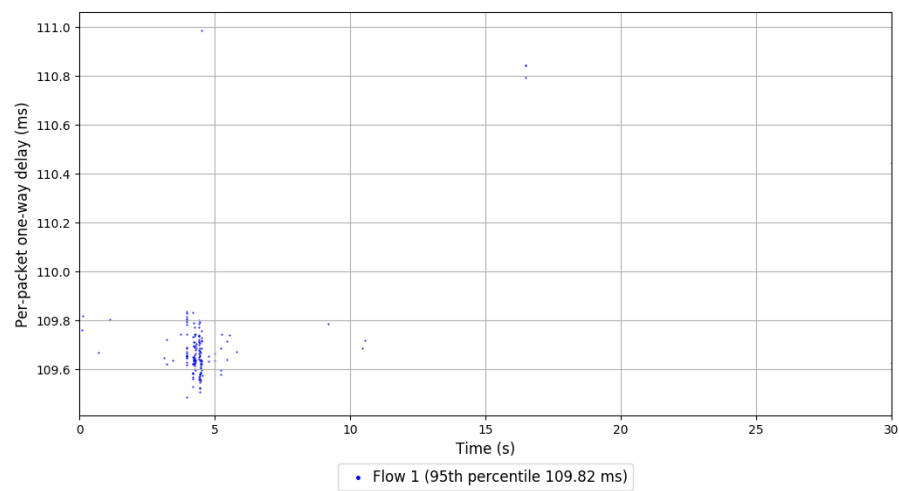
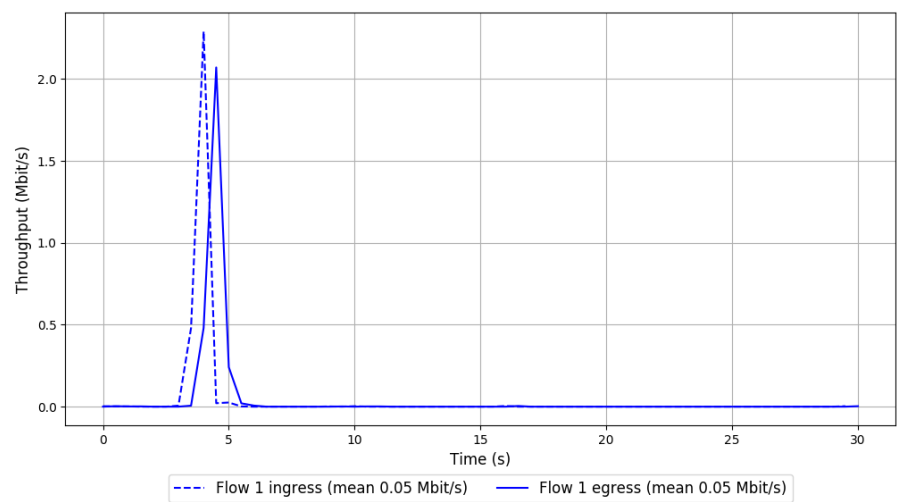


Run 3: Statistics of WebRTC media

Start at: 2019-03-26 20:08:26
End at: 2019-03-26 20:08:56
Local clock offset: 11.237 ms
Remote clock offset: 11.348 ms

Below is generated by plot.py at 2019-03-26 23:13:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.820 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-03-26 20:40:48

End at: 2019-03-26 20:41:18

Local clock offset: 4.6 ms

Remote clock offset: 3.968 ms

Below is generated by plot.py at 2019-03-26 23:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.594 ms

Loss rate: 0.00%

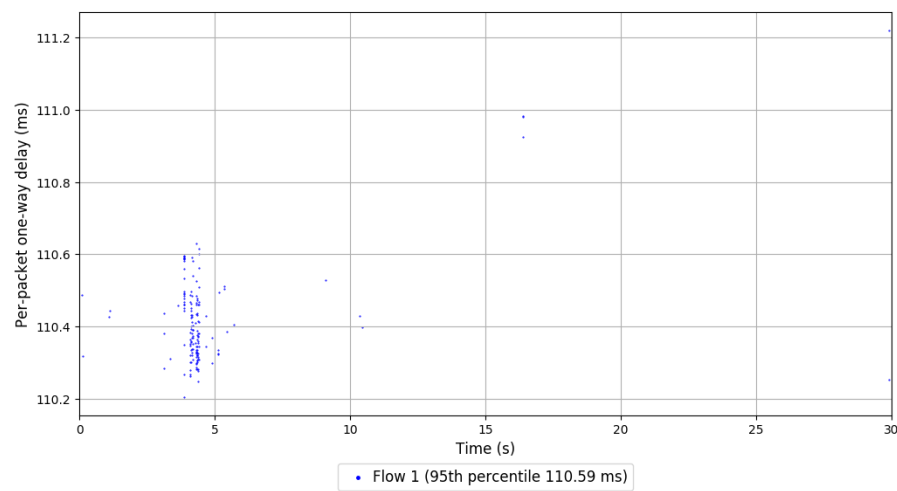
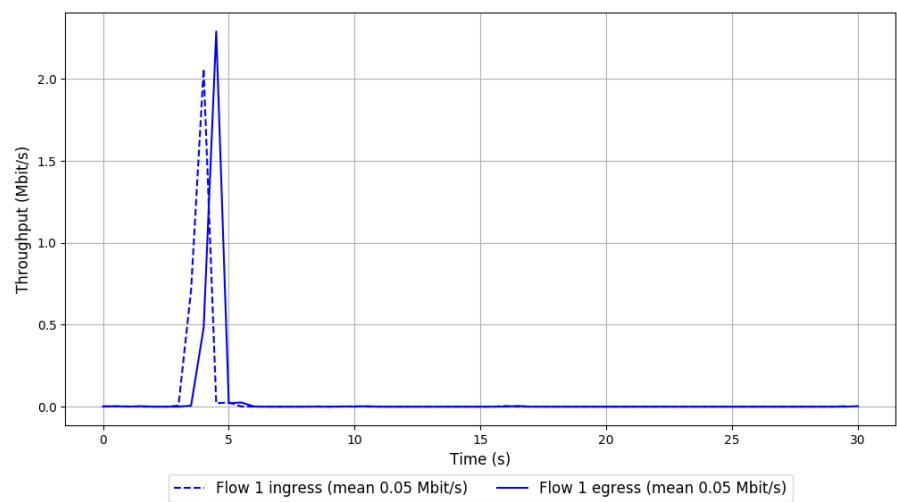
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.594 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-26 21:13:20

End at: 2019-03-26 21:13:50

Local clock offset: 1.525 ms

Remote clock offset: 1.834 ms

Run 5: Report of WebRTC media — Data Link

