

Pantheon Report

Generated at 2019-02-19 23:18:46 (UTC).

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

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

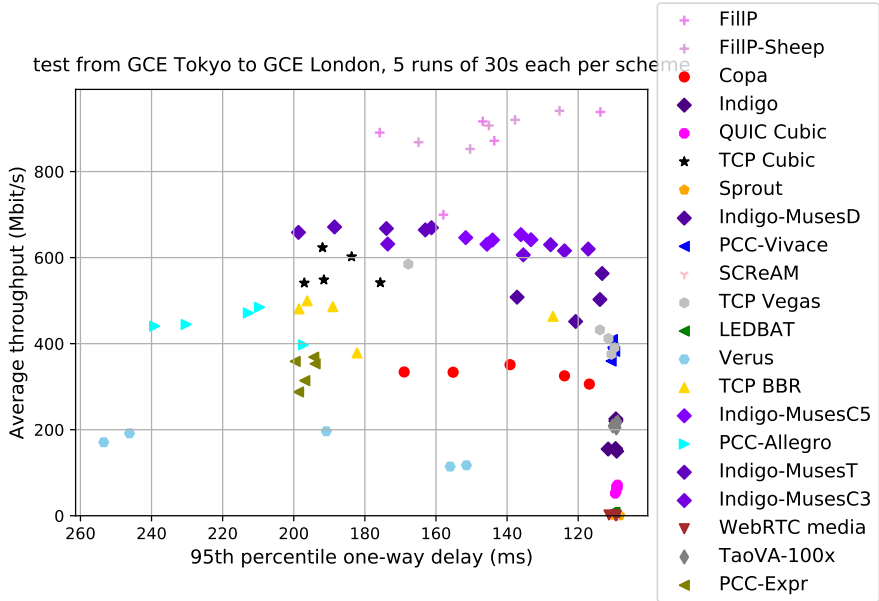
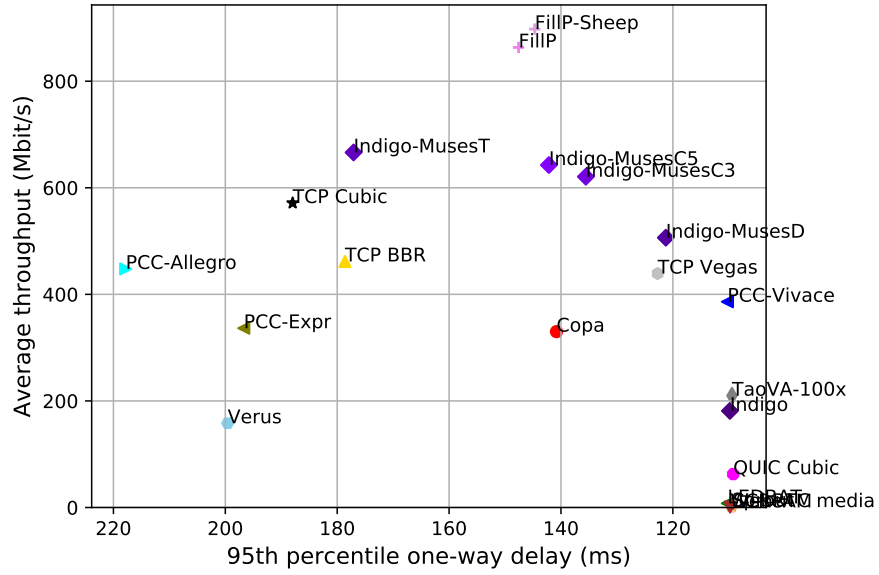
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

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 Tokyo to GCE London, 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	461.78	178.61	0.56
Copa	5	330.02	140.80	0.00
TCP Cubic	5	571.34	187.97	0.16
FillP	5	863.34	147.58	0.94
FillP-Sheep	5	897.78	144.69	0.63
Indigo	5	181.29	109.80	0.00
Indigo-MusesC3	5	620.72	135.56	0.01
Indigo-MusesC5	5	642.68	142.16	0.02
Indigo-MusesD	4	506.32	121.26	0.00
Indigo-MusesT	5	666.28	177.08	0.24
LEDBAT	5	7.78	110.24	0.00
PCC-Allegro	5	447.68	217.80	2.43
PCC-Expr	5	336.50	196.71	2.15
QUIC Cubic	5	62.71	109.21	0.00
SCReAM	5	0.22	109.24	0.00
Sprout	5	1.95	109.51	0.00
TaoVA-100x	5	209.83	109.43	0.00
TCP Vegas	5	439.00	122.72	0.06
Verus	5	158.12	199.58	4.34
PCC-Vivace	5	386.10	110.25	0.00
WebRTC media	5	0.80	109.76	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-02-19 18:32:02

End at: 2019-02-19 18:32:32

Local clock offset: 3.499 ms

Remote clock offset: 3.701 ms

Below is generated by plot.py at 2019-02-19 21:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.73 Mbit/s

95th percentile per-packet one-way delay: 196.217 ms

Loss rate: 0.76%

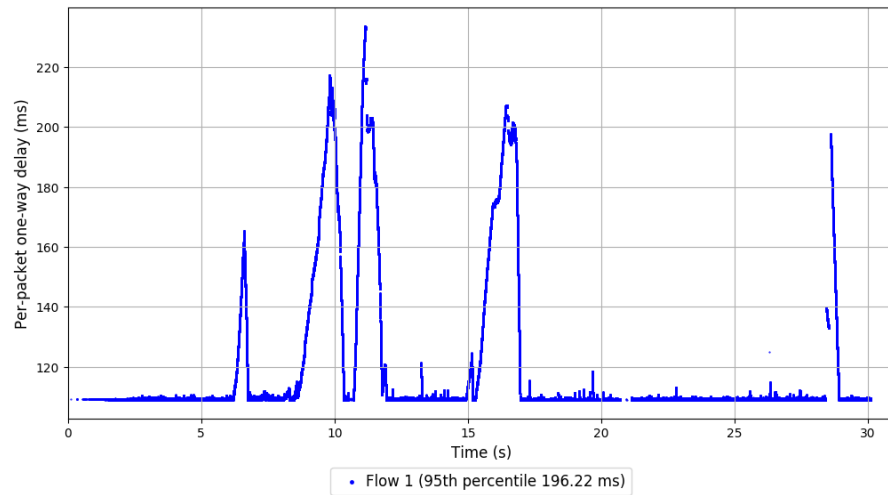
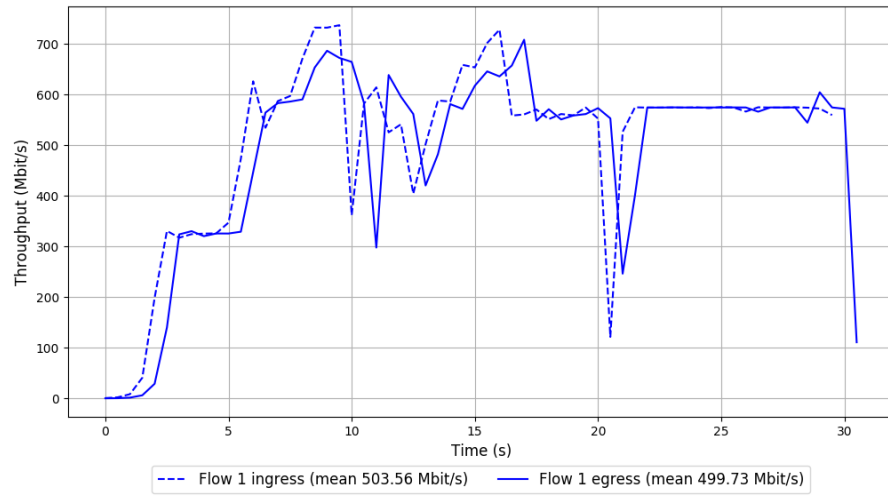
-- Flow 1:

Average throughput: 499.73 Mbit/s

95th percentile per-packet one-way delay: 196.217 ms

Loss rate: 0.76%

Run 1: Report of TCP BBR — Data Link

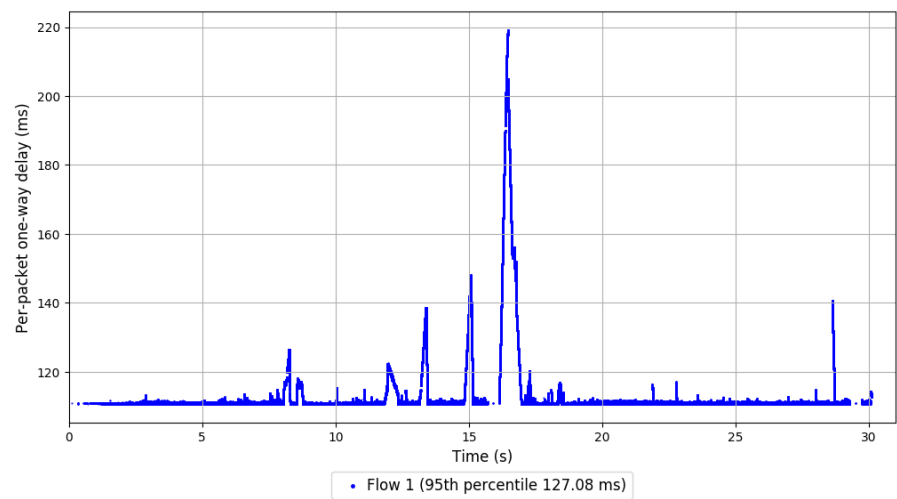
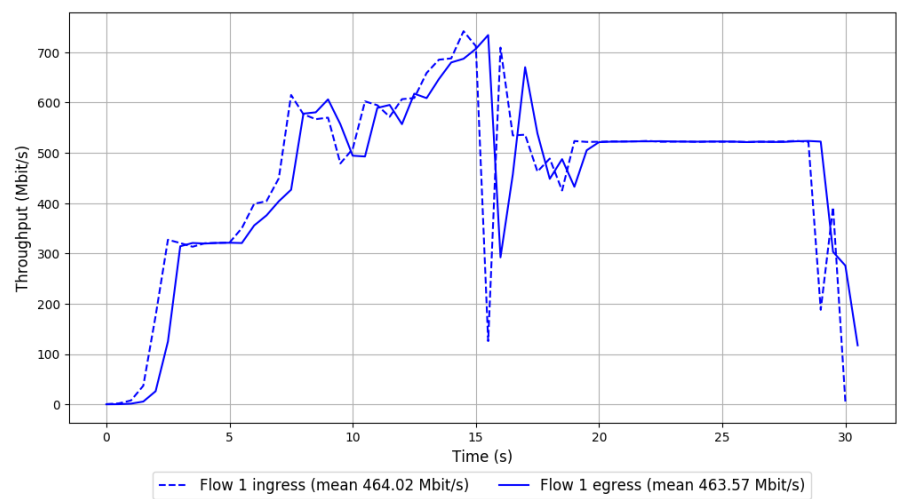


Run 2: Statistics of TCP BBR

Start at: 2019-02-19 19:04:16
End at: 2019-02-19 19:04:46
Local clock offset: 23.06 ms
Remote clock offset: 23.493 ms

Below is generated by plot.py at 2019-02-19 21:34:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 463.57 Mbit/s
95th percentile per-packet one-way delay: 127.084 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 463.57 Mbit/s
95th percentile per-packet one-way delay: 127.084 ms
Loss rate: 0.10%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-02-19 19:36:53

End at: 2019-02-19 19:37:23

Local clock offset: 34.624 ms

Remote clock offset: 36.48 ms

Below is generated by plot.py at 2019-02-19 21:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.55 Mbit/s

95th percentile per-packet one-way delay: 182.205 ms

Loss rate: 0.61%

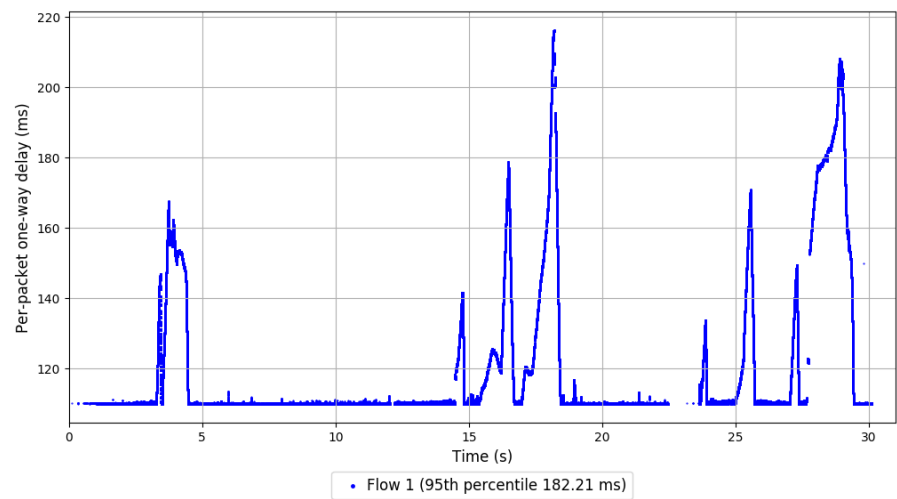
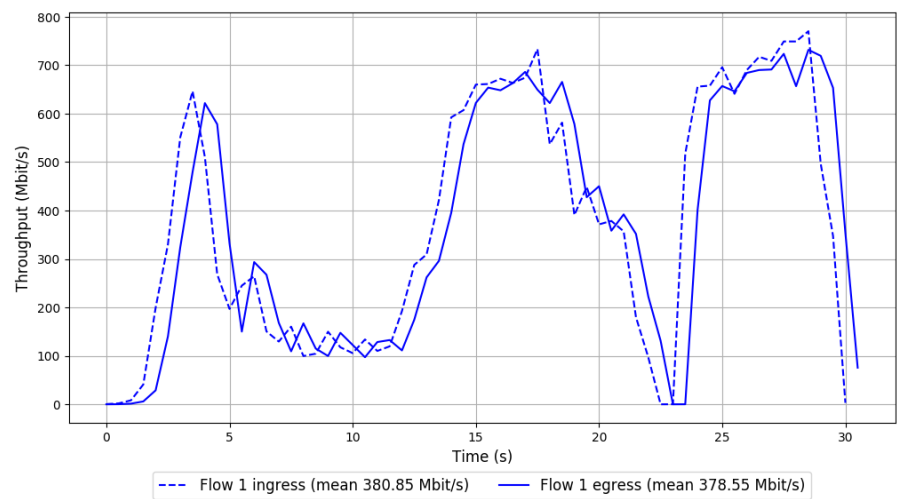
-- Flow 1:

Average throughput: 378.55 Mbit/s

95th percentile per-packet one-way delay: 182.205 ms

Loss rate: 0.61%

Run 3: Report of TCP BBR — Data Link

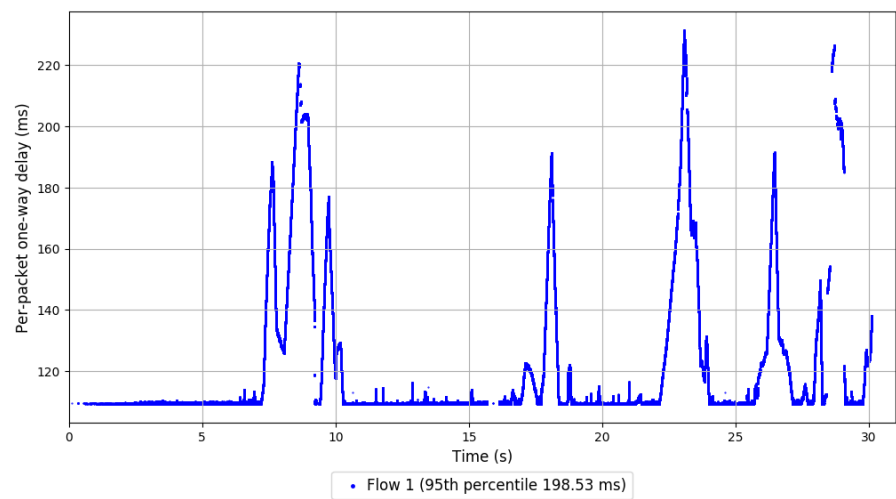
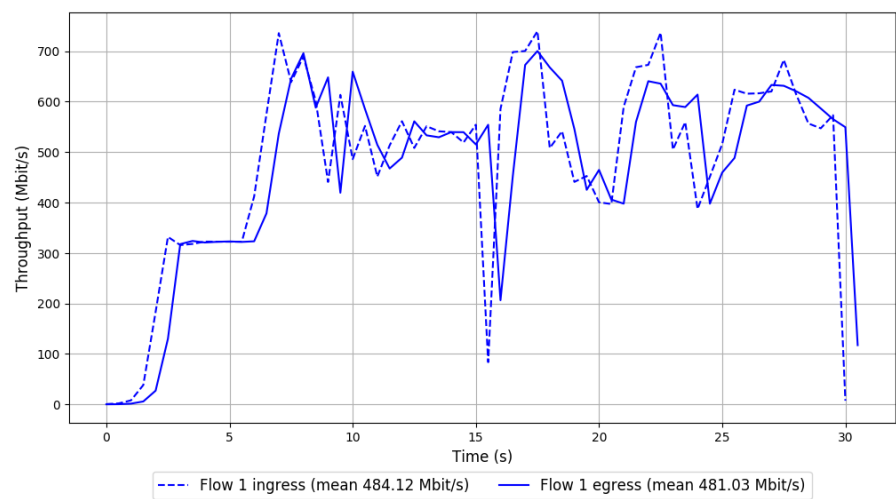


Run 4: Statistics of TCP BBR

Start at: 2019-02-19 20:08:54
End at: 2019-02-19 20:09:24
Local clock offset: 16.989 ms
Remote clock offset: 17.684 ms

Below is generated by plot.py at 2019-02-19 21:34:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 481.03 Mbit/s
95th percentile per-packet one-way delay: 198.533 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 481.03 Mbit/s
95th percentile per-packet one-way delay: 198.533 ms
Loss rate: 0.64%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-02-19 20:41:24

End at: 2019-02-19 20:41:54

Local clock offset: 3.859 ms

Remote clock offset: 8.318 ms

Below is generated by plot.py at 2019-02-19 21:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 486.02 Mbit/s

95th percentile per-packet one-way delay: 189.023 ms

Loss rate: 0.69%

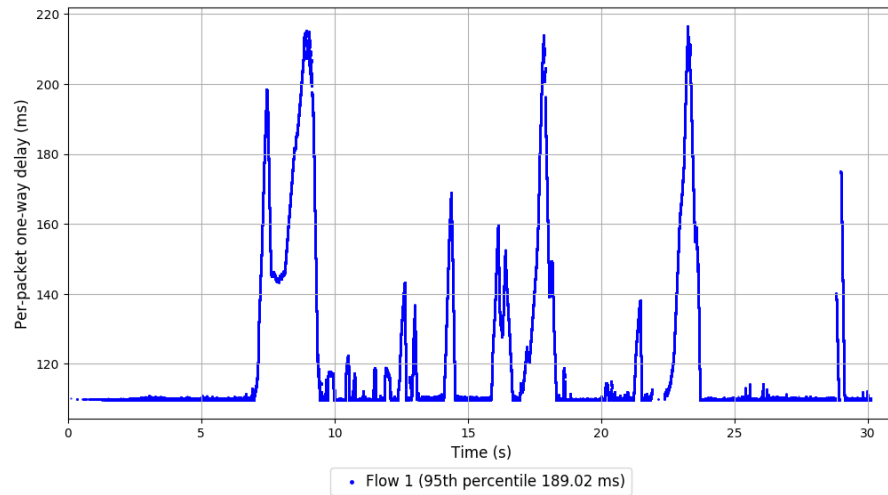
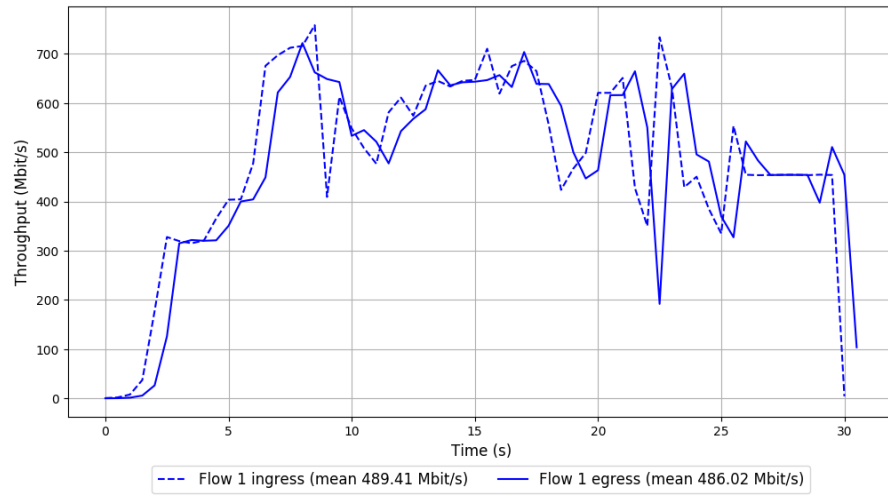
-- Flow 1:

Average throughput: 486.02 Mbit/s

95th percentile per-packet one-way delay: 189.023 ms

Loss rate: 0.69%

Run 5: Report of TCP BBR — Data Link

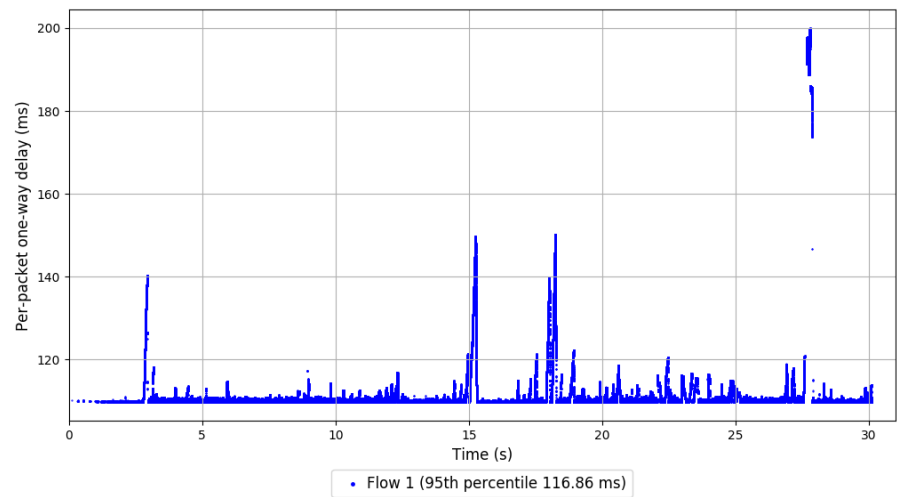
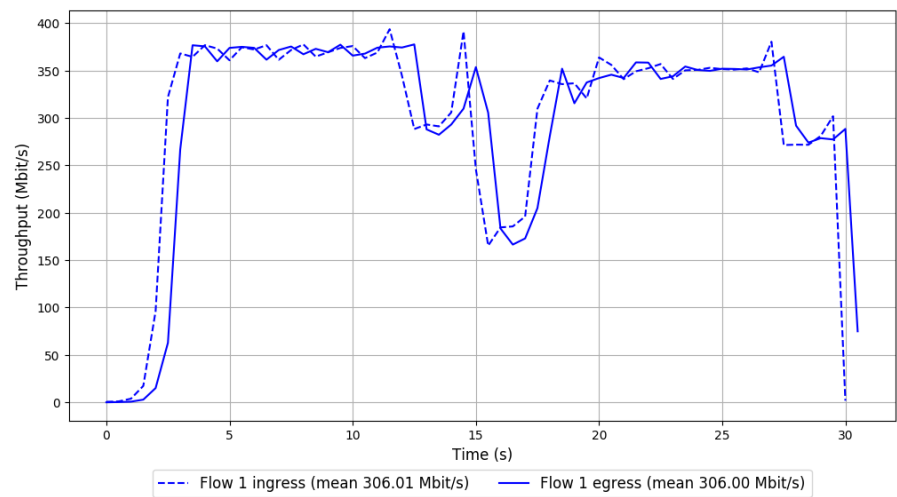


Run 1: Statistics of Copa

Start at: 2019-02-19 18:54:39
End at: 2019-02-19 18:55:10
Local clock offset: 13.5 ms
Remote clock offset: 14.653 ms

Below is generated by plot.py at 2019-02-19 21:35:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 306.00 Mbit/s
95th percentile per-packet one-way delay: 116.857 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 306.00 Mbit/s
95th percentile per-packet one-way delay: 116.857 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

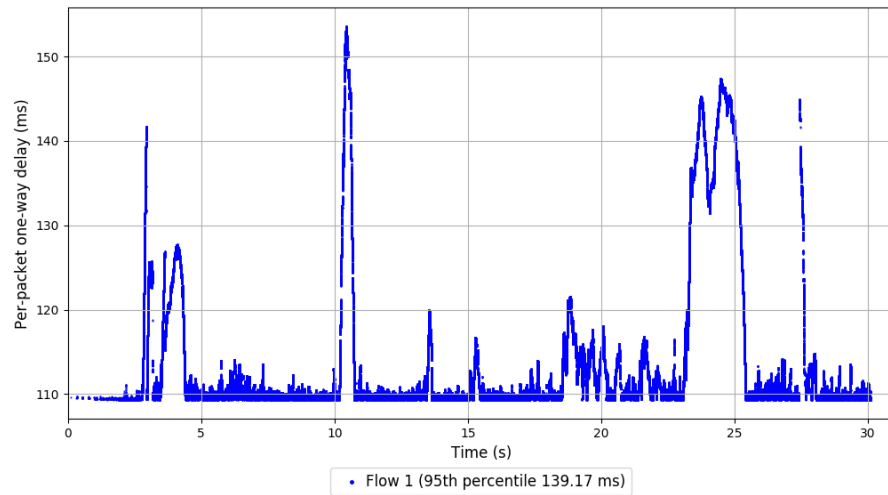
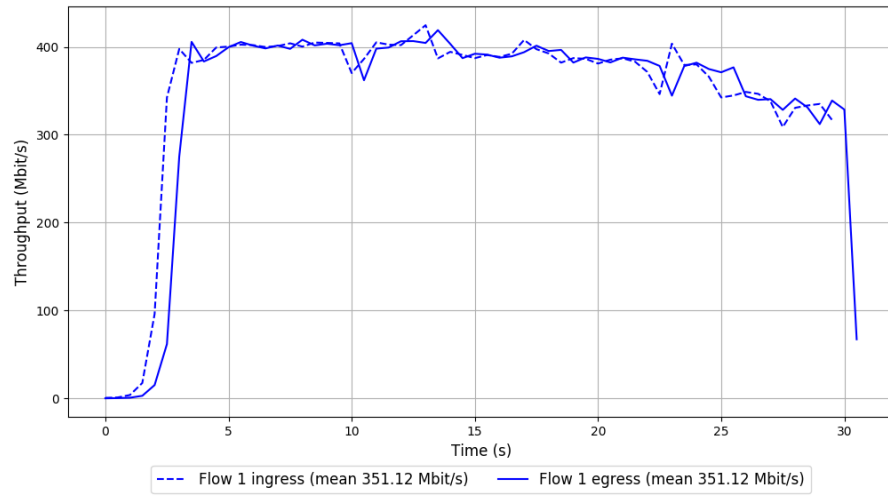


Run 2: Statistics of Copa

Start at: 2019-02-19 19:27:12
End at: 2019-02-19 19:27:42
Local clock offset: 26.114 ms
Remote clock offset: 27.226 ms

Below is generated by plot.py at 2019-02-19 21:36:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 351.12 Mbit/s
95th percentile per-packet one-way delay: 139.168 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 351.12 Mbit/s
95th percentile per-packet one-way delay: 139.168 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

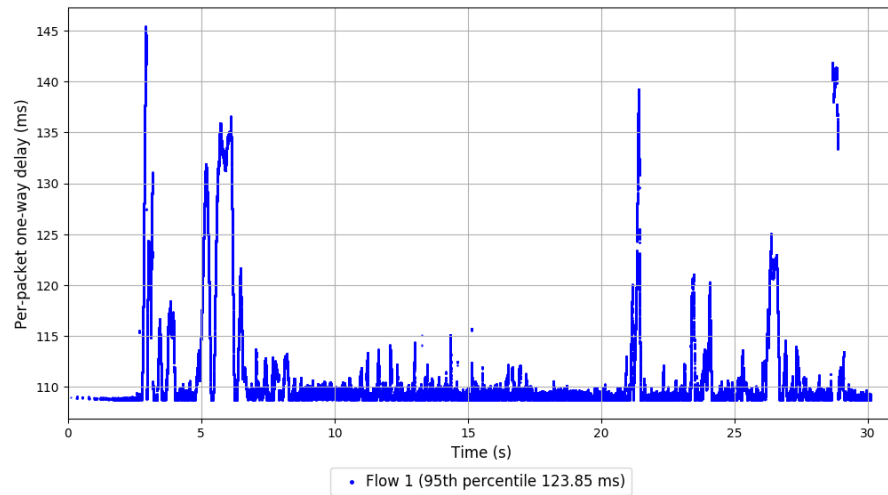
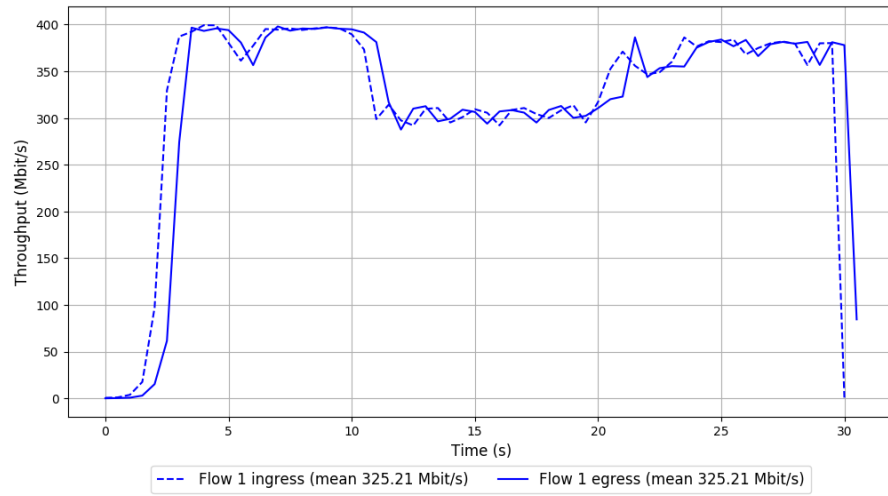


Run 3: Statistics of Copa

Start at: 2019-02-19 19:59:22
End at: 2019-02-19 19:59:52
Local clock offset: 13.991 ms
Remote clock offset: 14.173 ms

Below is generated by plot.py at 2019-02-19 21:36:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 325.21 Mbit/s
95th percentile per-packet one-way delay: 123.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 325.21 Mbit/s
95th percentile per-packet one-way delay: 123.851 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-02-19 20:31:32

End at: 2019-02-19 20:32:02

Local clock offset: 4.032 ms

Remote clock offset: 6.763 ms

Below is generated by plot.py at 2019-02-19 21:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.55 Mbit/s

95th percentile per-packet one-way delay: 155.180 ms

Loss rate: 0.00%

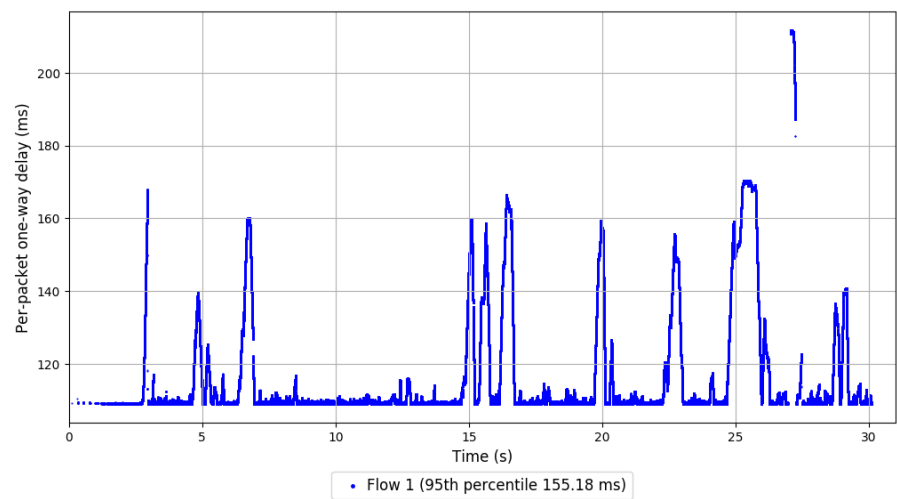
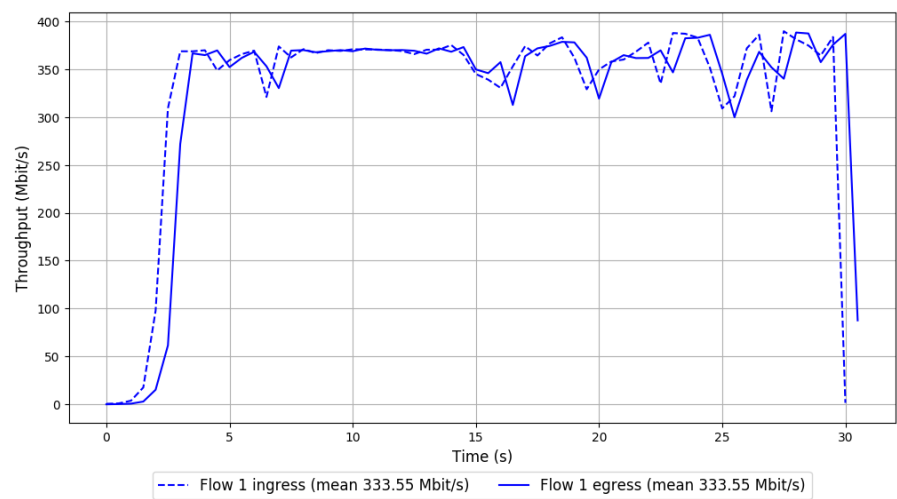
-- Flow 1:

Average throughput: 333.55 Mbit/s

95th percentile per-packet one-way delay: 155.180 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-02-19 21:03:53

End at: 2019-02-19 21:04:23

Local clock offset: 1.015 ms

Remote clock offset: 2.008 ms

Below is generated by plot.py at 2019-02-19 21:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.20 Mbit/s

95th percentile per-packet one-way delay: 168.943 ms

Loss rate: 0.00%

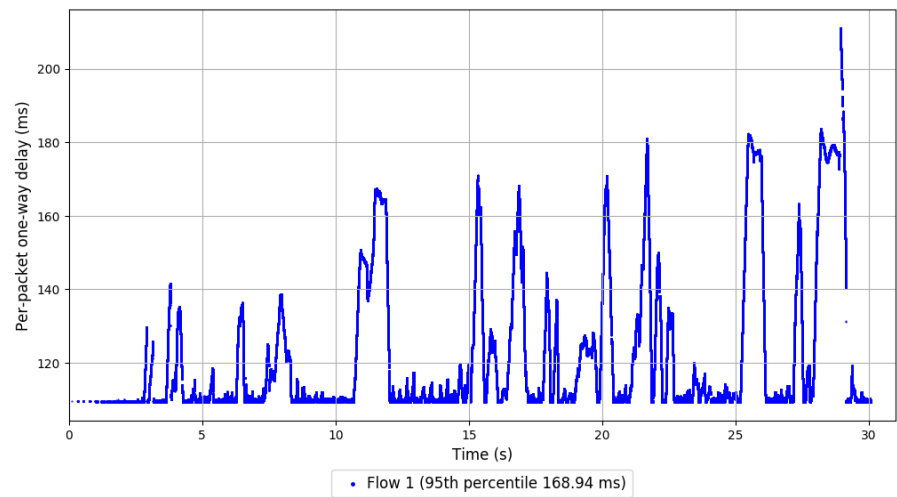
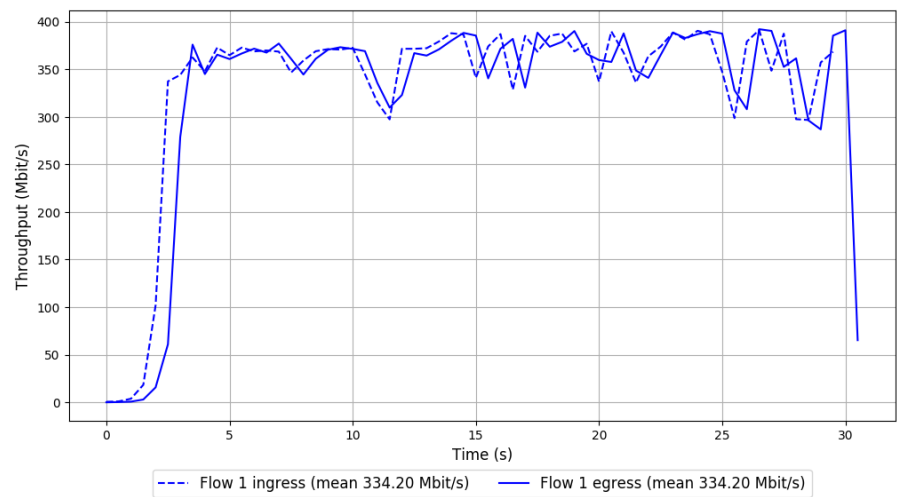
-- Flow 1:

Average throughput: 334.20 Mbit/s

95th percentile per-packet one-way delay: 168.943 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

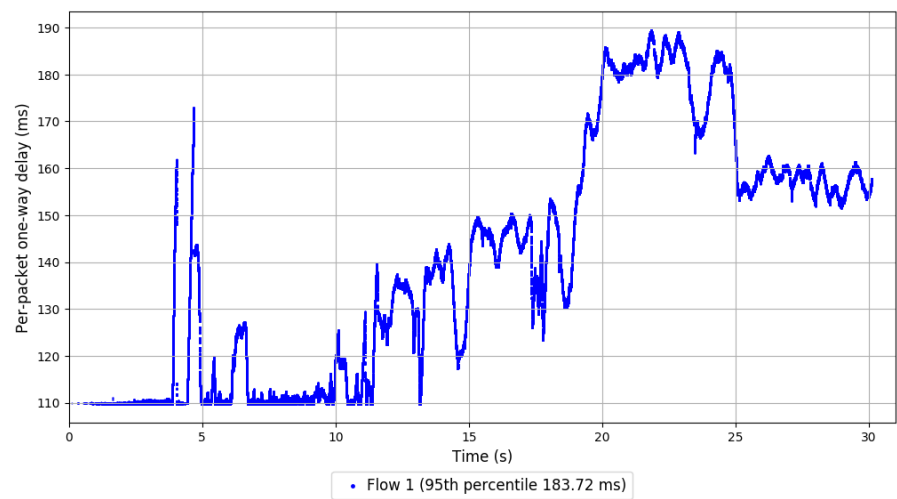
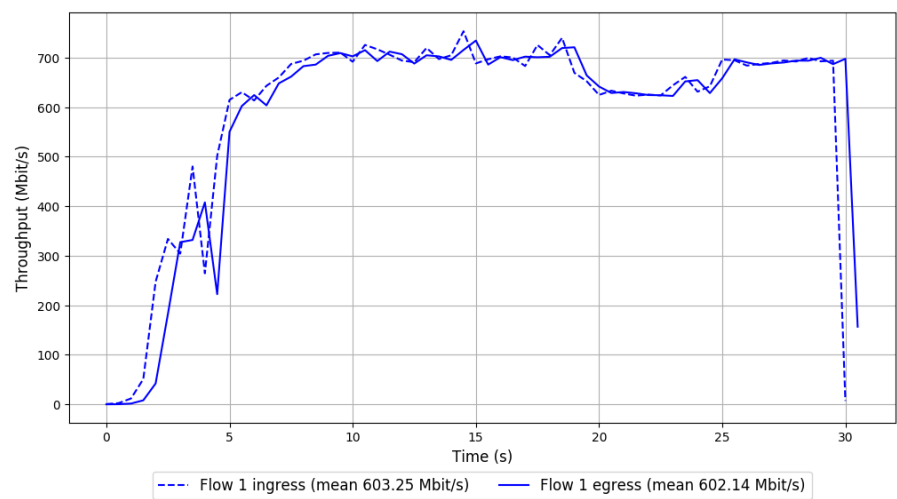


Run 1: Statistics of TCP Cubic

Start at: 2019-02-19 18:59:39
End at: 2019-02-19 19:00:09
Local clock offset: 18.784 ms
Remote clock offset: 20.294 ms

Below is generated by plot.py at 2019-02-19 21:45:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 602.14 Mbit/s
95th percentile per-packet one-way delay: 183.723 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 602.14 Mbit/s
95th percentile per-packet one-way delay: 183.723 ms
Loss rate: 0.18%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-02-19 19:32:19

End at: 2019-02-19 19:32:49

Local clock offset: 30.436 ms

Remote clock offset: 31.96 ms

Below is generated by plot.py at 2019-02-19 21:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 541.83 Mbit/s

95th percentile per-packet one-way delay: 175.646 ms

Loss rate: 0.06%

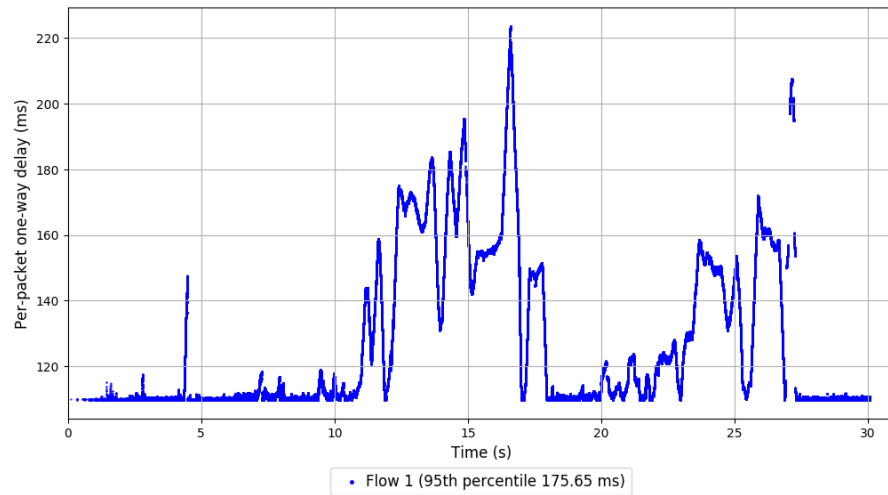
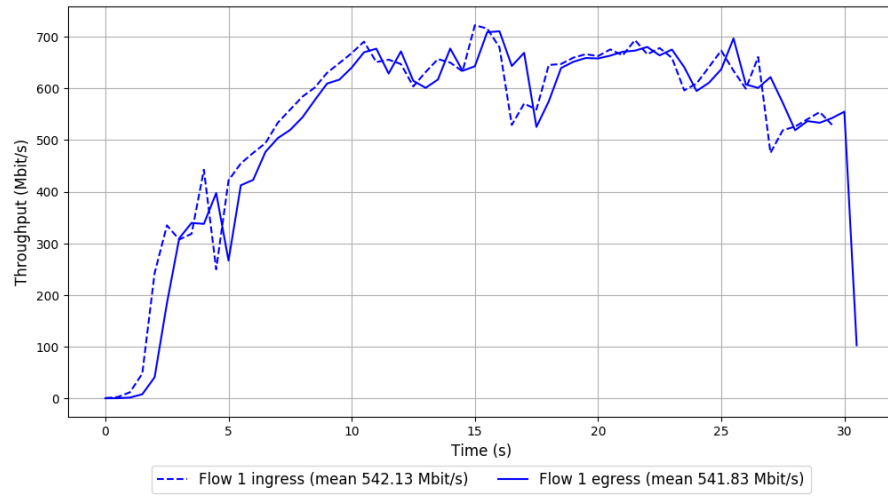
-- Flow 1:

Average throughput: 541.83 Mbit/s

95th percentile per-packet one-way delay: 175.646 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link

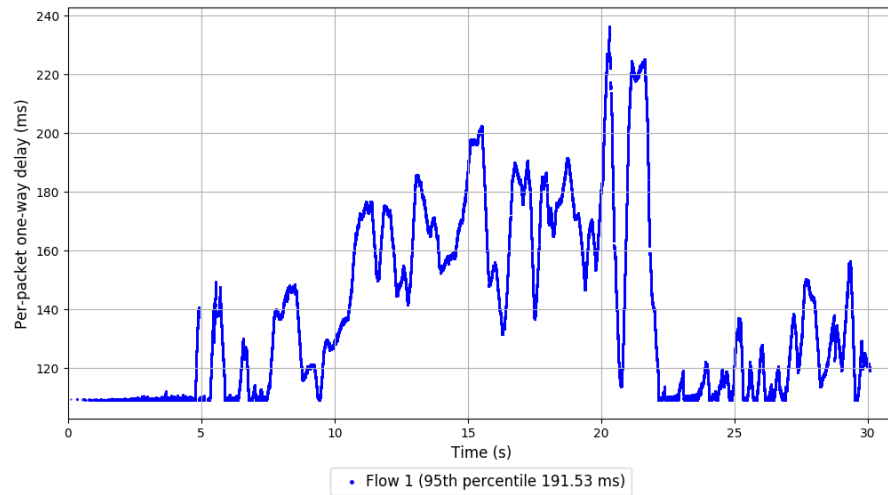
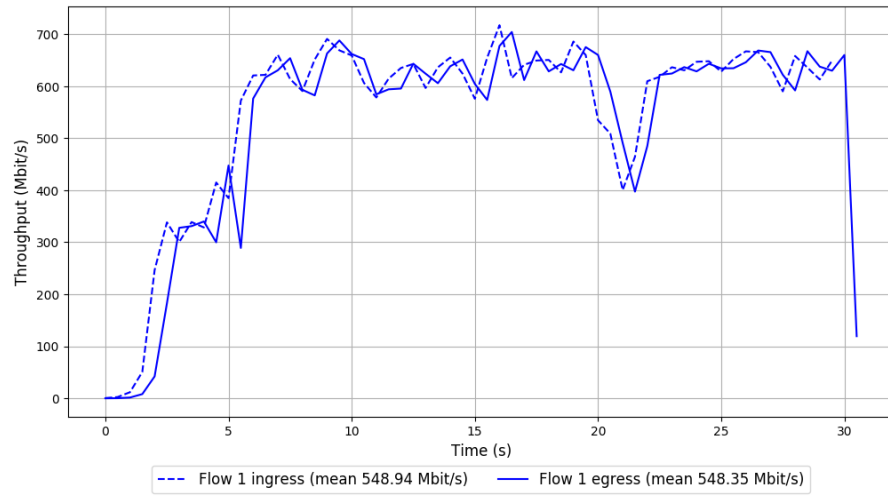


Run 3: Statistics of TCP Cubic

Start at: 2019-02-19 20:04:25
End at: 2019-02-19 20:04:55
Local clock offset: 15.31 ms
Remote clock offset: 15.943 ms

Below is generated by plot.py at 2019-02-19 21:45:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 548.35 Mbit/s
95th percentile per-packet one-way delay: 191.529 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 548.35 Mbit/s
95th percentile per-packet one-way delay: 191.529 ms
Loss rate: 0.10%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-02-19 20:36:46

End at: 2019-02-19 20:37:16

Local clock offset: 3.905 ms

Remote clock offset: 7.201 ms

Below is generated by plot.py at 2019-02-19 21:46:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 623.28 Mbit/s

95th percentile per-packet one-way delay: 191.912 ms

Loss rate: 0.21%

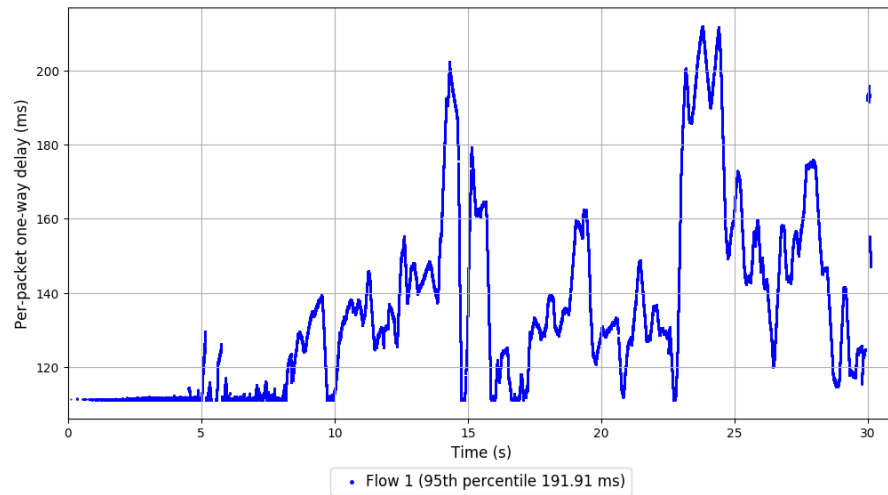
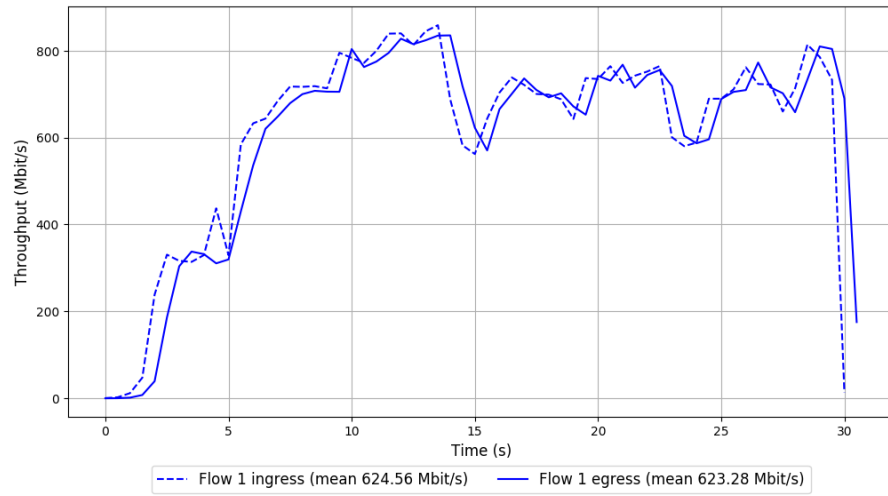
-- Flow 1:

Average throughput: 623.28 Mbit/s

95th percentile per-packet one-way delay: 191.912 ms

Loss rate: 0.21%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-02-19 21:08:59

End at: 2019-02-19 21:09:29

Local clock offset: 1.194 ms

Remote clock offset: 1.864 ms

Below is generated by plot.py at 2019-02-19 21:46:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 541.12 Mbit/s

95th percentile per-packet one-way delay: 197.021 ms

Loss rate: 0.24%

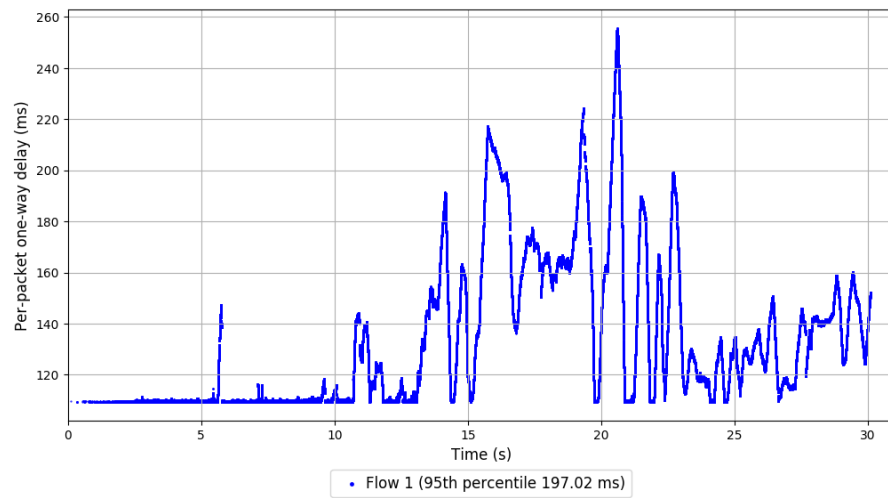
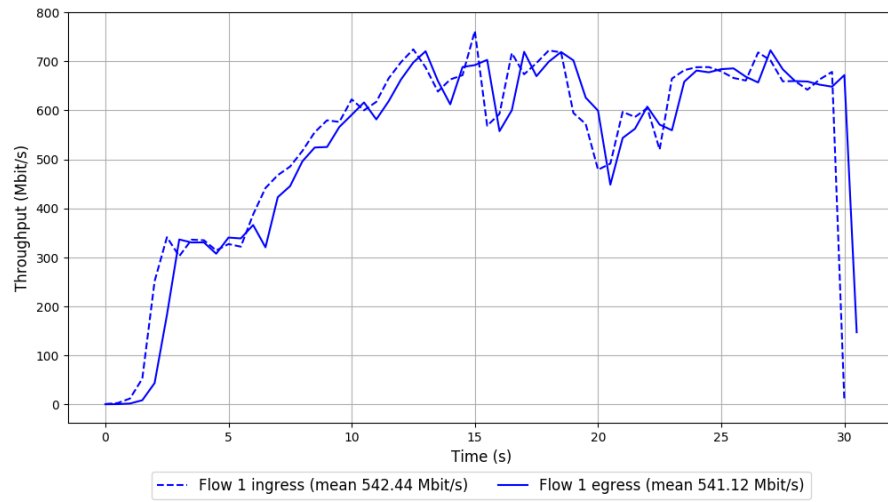
-- Flow 1:

Average throughput: 541.12 Mbit/s

95th percentile per-packet one-way delay: 197.021 ms

Loss rate: 0.24%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-02-19 18:35:13

End at: 2019-02-19 18:35:43

Local clock offset: 5.397 ms

Remote clock offset: 5.79 ms

Below is generated by plot.py at 2019-02-19 21:54:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 871.50 Mbit/s

95th percentile per-packet one-way delay: 143.595 ms

Loss rate: 0.53%

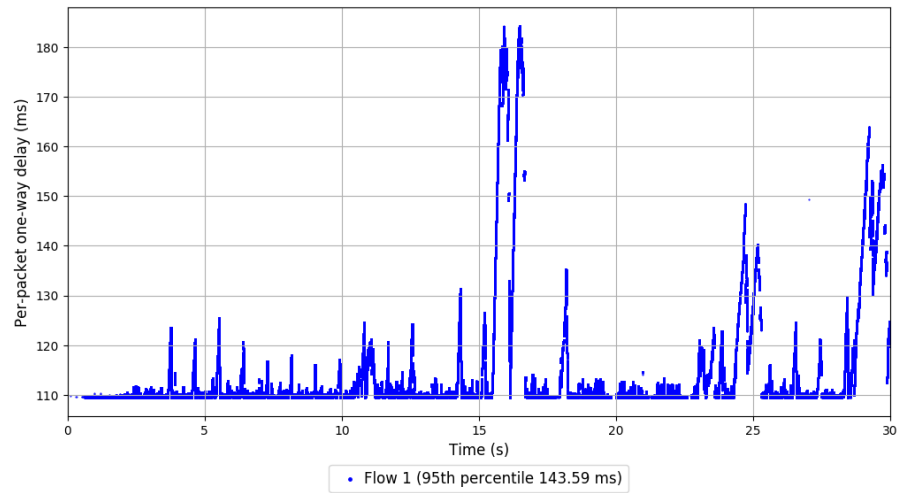
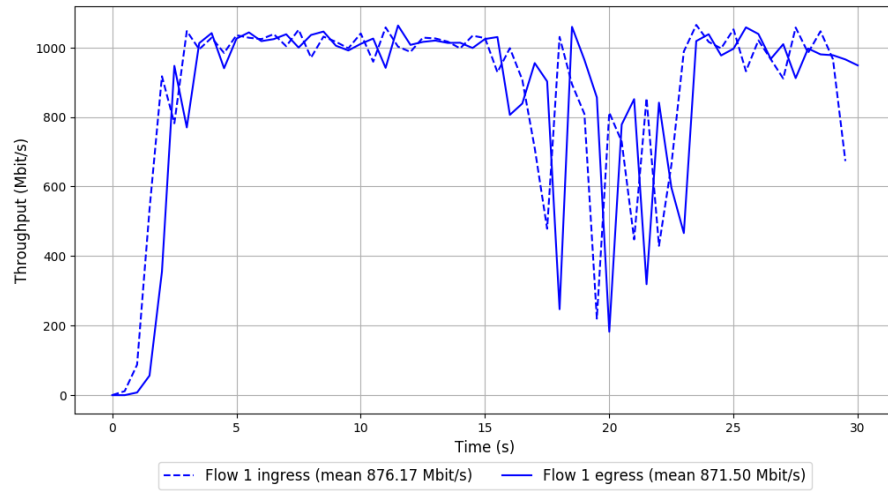
-- Flow 1:

Average throughput: 871.50 Mbit/s

95th percentile per-packet one-way delay: 143.595 ms

Loss rate: 0.53%

Run 1: Report of FillP — Data Link

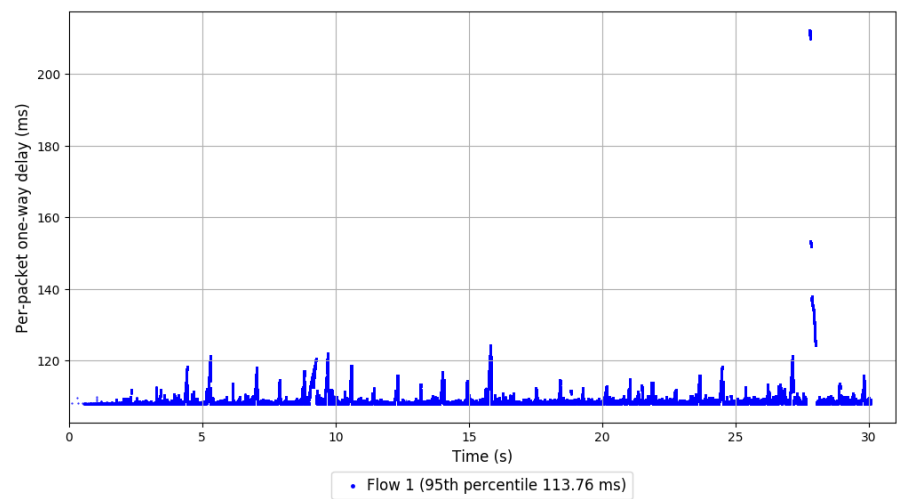
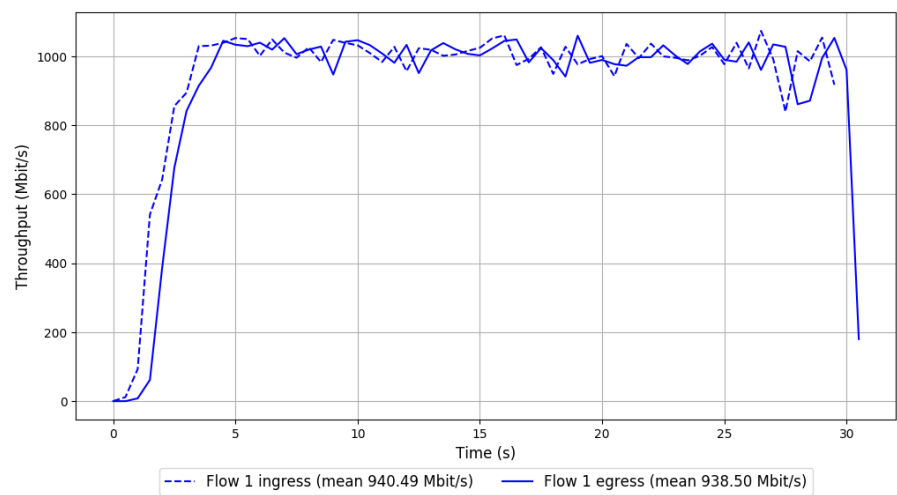


Run 2: Statistics of FillP

Start at: 2019-02-19 19:07:23
End at: 2019-02-19 19:07:53
Local clock offset: 19.542 ms
Remote clock offset: 19.894 ms

Below is generated by plot.py at 2019-02-19 22:05:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 938.50 Mbit/s
95th percentile per-packet one-way delay: 113.758 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 938.50 Mbit/s
95th percentile per-packet one-way delay: 113.758 ms
Loss rate: 0.21%

Run 2: Report of FillP — Data Link

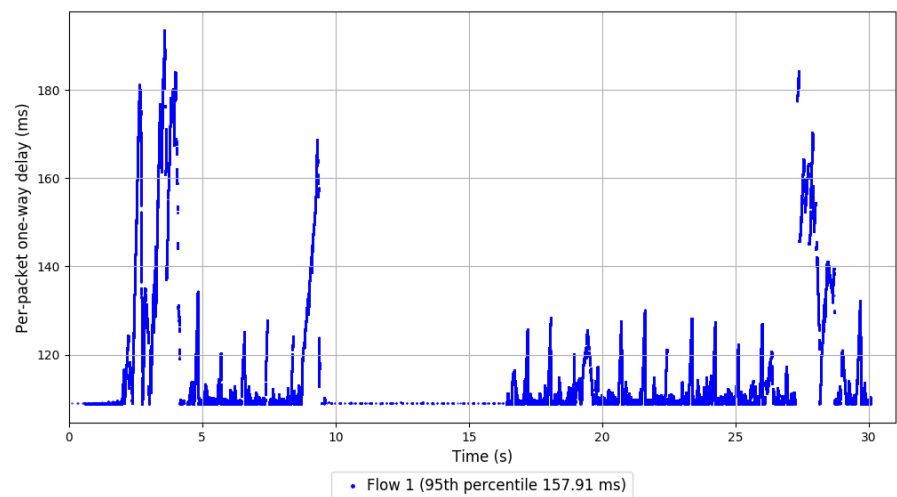
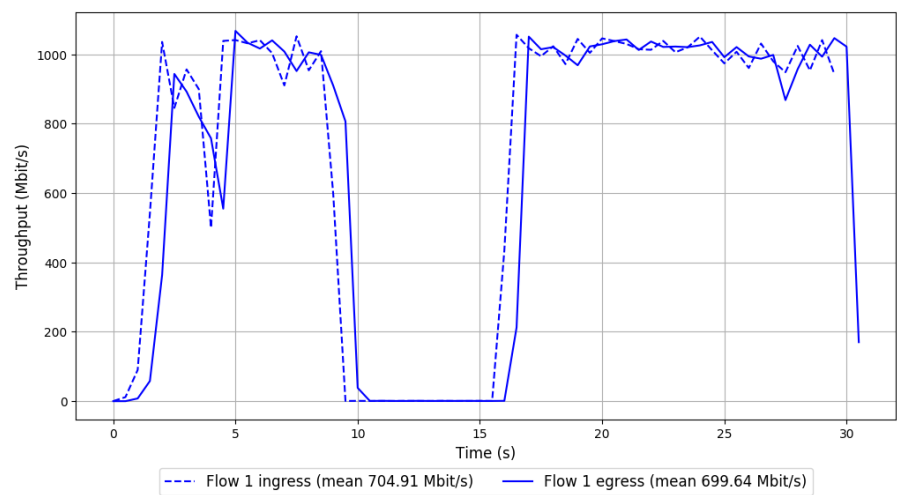


Run 3: Statistics of FillP

Start at: 2019-02-19 19:39:54
End at: 2019-02-19 19:40:24
Local clock offset: 29.071 ms
Remote clock offset: 29.681 ms

Below is generated by plot.py at 2019-02-19 22:05:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 699.64 Mbit/s
95th percentile per-packet one-way delay: 157.913 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 699.64 Mbit/s
95th percentile per-packet one-way delay: 157.913 ms
Loss rate: 0.75%

Run 3: Report of FillP — Data Link

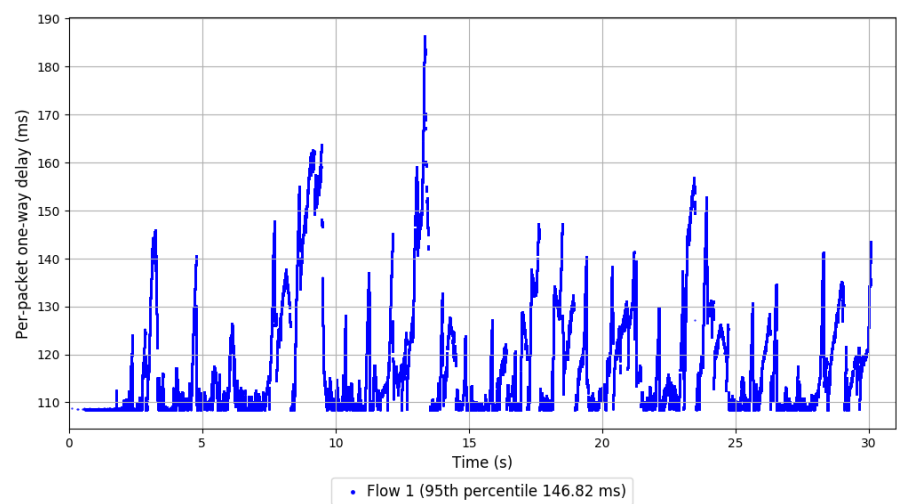
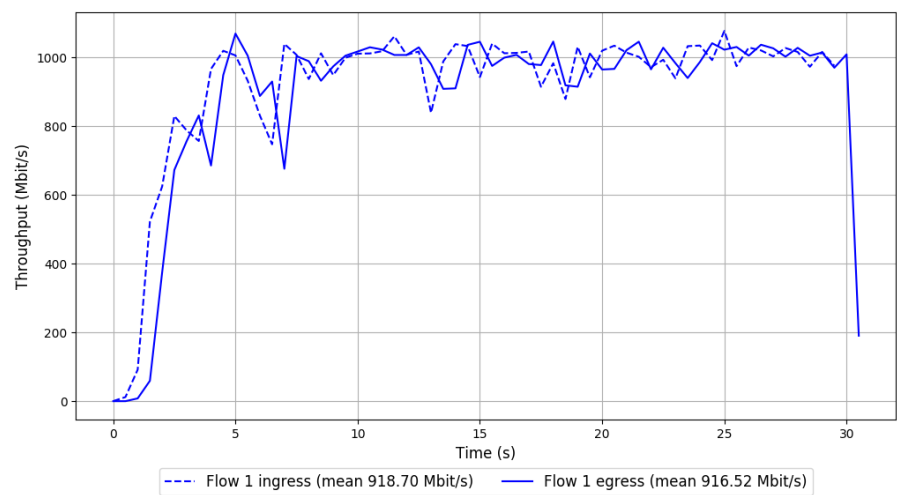


Run 4: Statistics of FillP

Start at: 2019-02-19 20:11:56
End at: 2019-02-19 20:12:26
Local clock offset: 18.303 ms
Remote clock offset: 18.336 ms

Below is generated by plot.py at 2019-02-19 22:05:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 916.52 Mbit/s
95th percentile per-packet one-way delay: 146.817 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 916.52 Mbit/s
95th percentile per-packet one-way delay: 146.817 ms
Loss rate: 0.18%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-02-19 20:44:23

End at: 2019-02-19 20:44:53

Local clock offset: 3.821 ms

Remote clock offset: 8.53 ms

Below is generated by plot.py at 2019-02-19 22:05:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 890.55 Mbit/s

95th percentile per-packet one-way delay: 175.820 ms

Loss rate: 3.01%

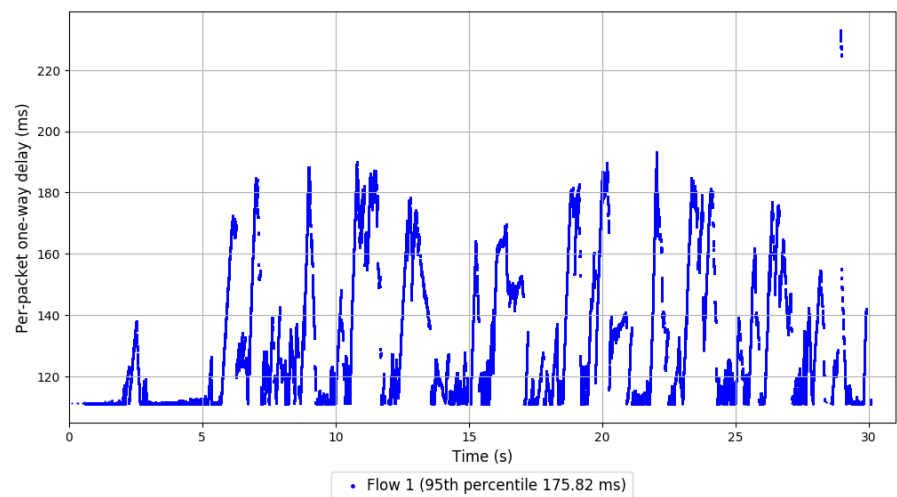
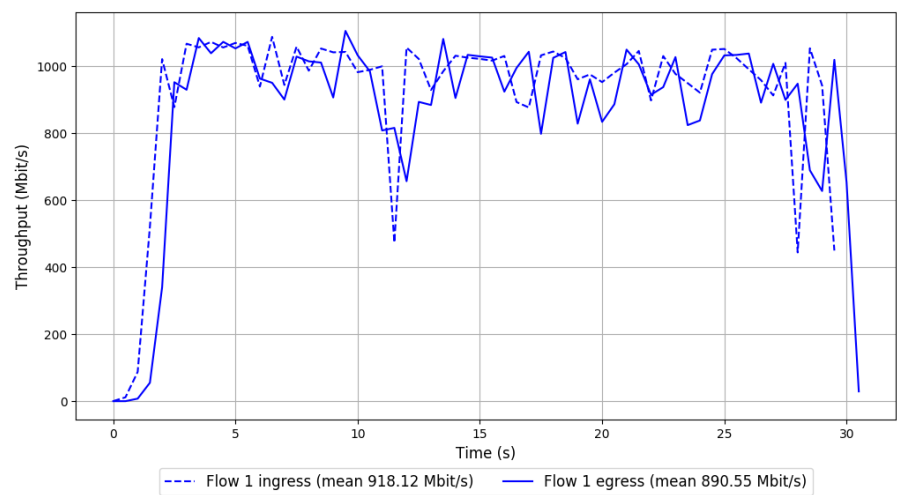
-- Flow 1:

Average throughput: 890.55 Mbit/s

95th percentile per-packet one-way delay: 175.820 ms

Loss rate: 3.01%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-02-19 18:56:20

End at: 2019-02-19 18:56:50

Local clock offset: 15.237 ms

Remote clock offset: 15.85 ms

Below is generated by plot.py at 2019-02-19 22:05:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 906.95 Mbit/s

95th percentile per-packet one-way delay: 145.117 ms

Loss rate: 0.51%

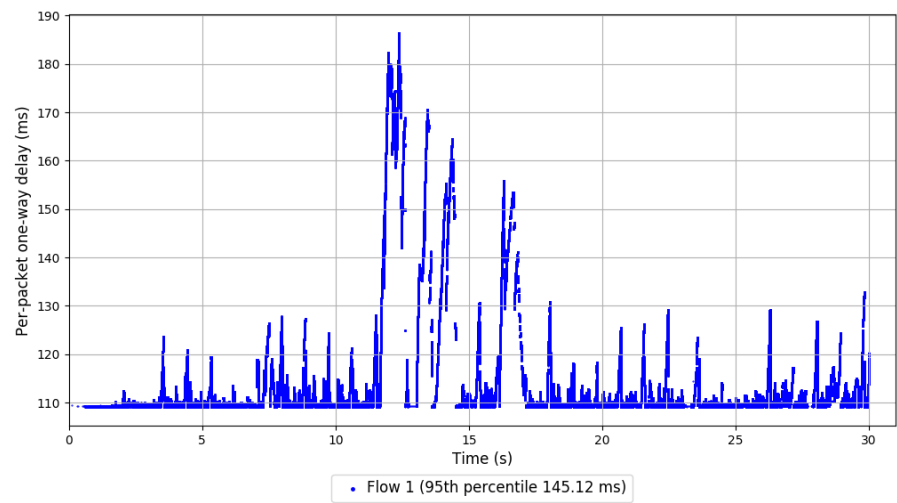
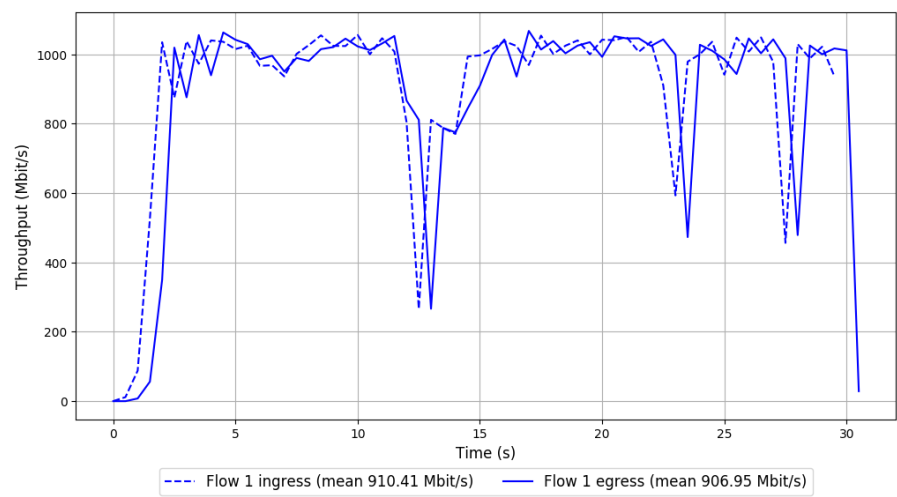
-- Flow 1:

Average throughput: 906.95 Mbit/s

95th percentile per-packet one-way delay: 145.117 ms

Loss rate: 0.51%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-02-19 19:28:57

End at: 2019-02-19 19:29:27

Local clock offset: 27.495 ms

Remote clock offset: 28.66 ms

Below is generated by plot.py at 2019-02-19 22:07:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 941.24 Mbit/s

95th percentile per-packet one-way delay: 125.256 ms

Loss rate: 0.07%

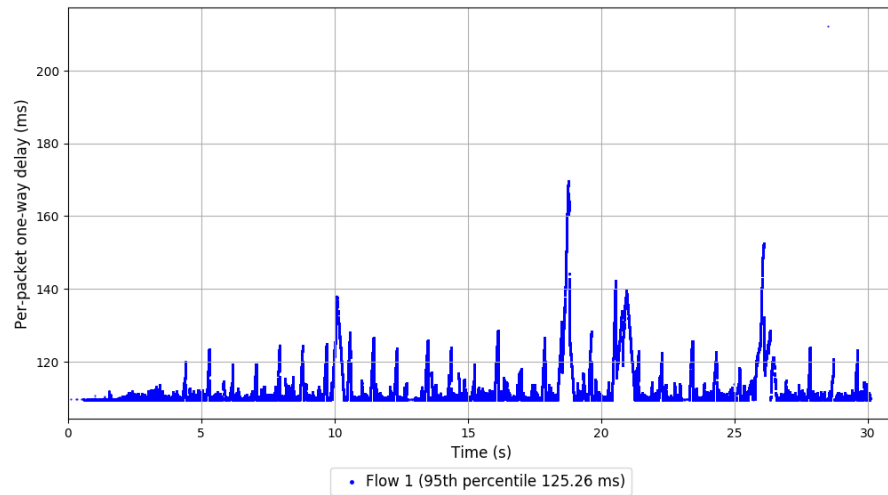
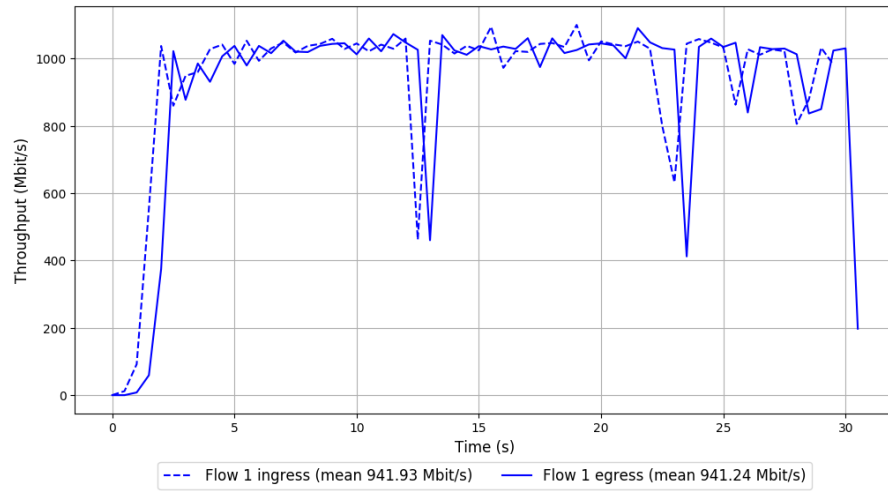
-- Flow 1:

Average throughput: 941.24 Mbit/s

95th percentile per-packet one-way delay: 125.256 ms

Loss rate: 0.07%

Run 2: Report of FillP-Sheep — Data Link

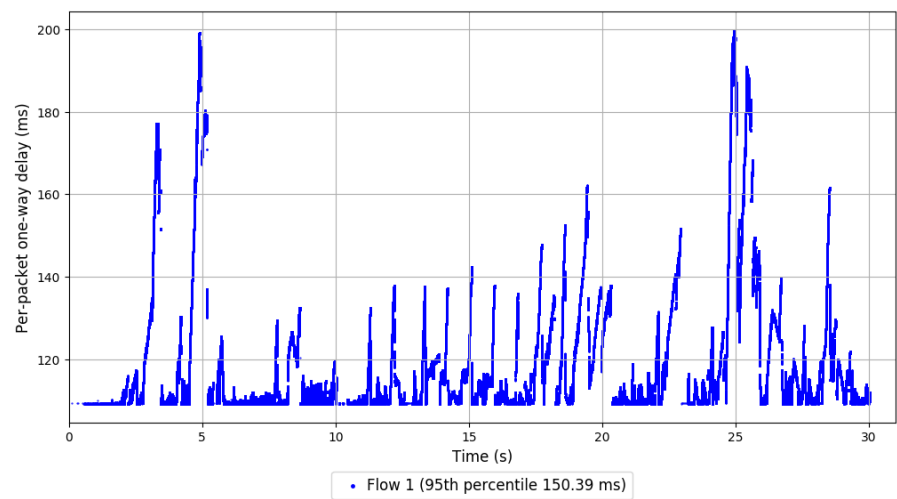
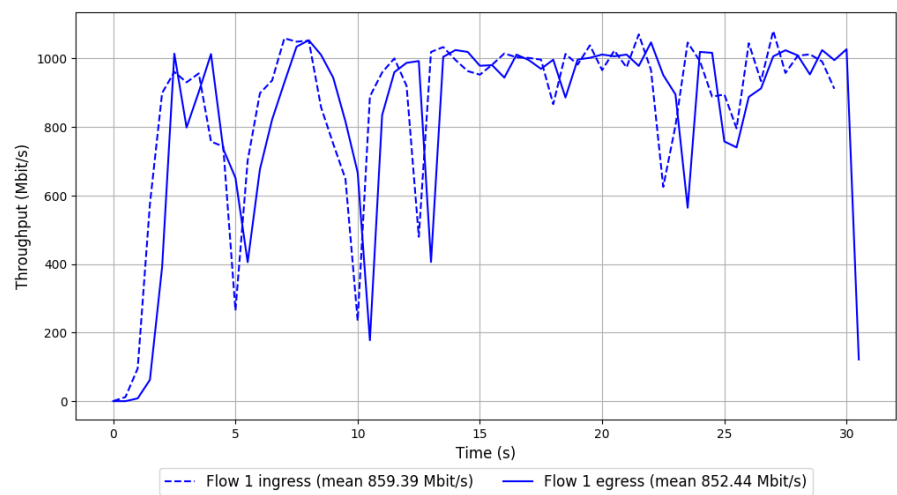


Run 3: Statistics of FillP-Sheep

Start at: 2019-02-19 20:01:04
End at: 2019-02-19 20:01:34
Local clock offset: 14.282 ms
Remote clock offset: 14.877 ms

Below is generated by plot.py at 2019-02-19 22:07:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 852.44 Mbit/s
95th percentile per-packet one-way delay: 150.389 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 852.44 Mbit/s
95th percentile per-packet one-way delay: 150.389 ms
Loss rate: 0.81%

Run 3: Report of FillP-Sheep — Data Link

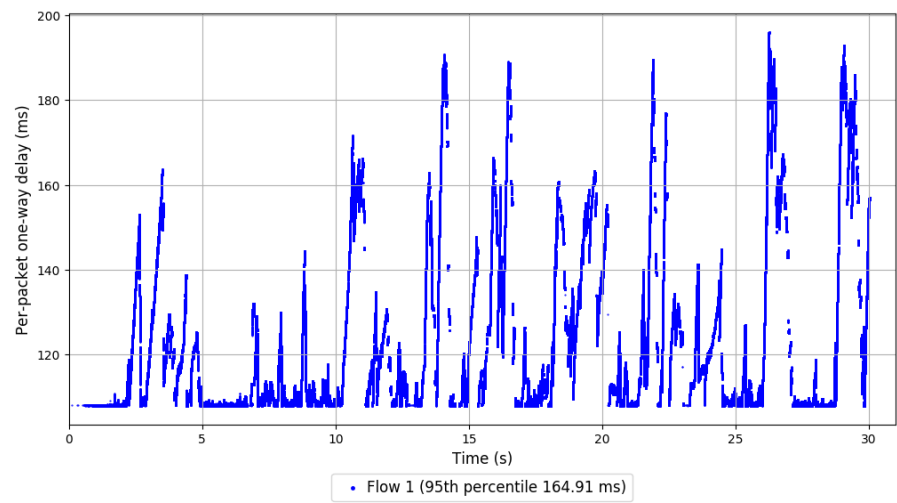
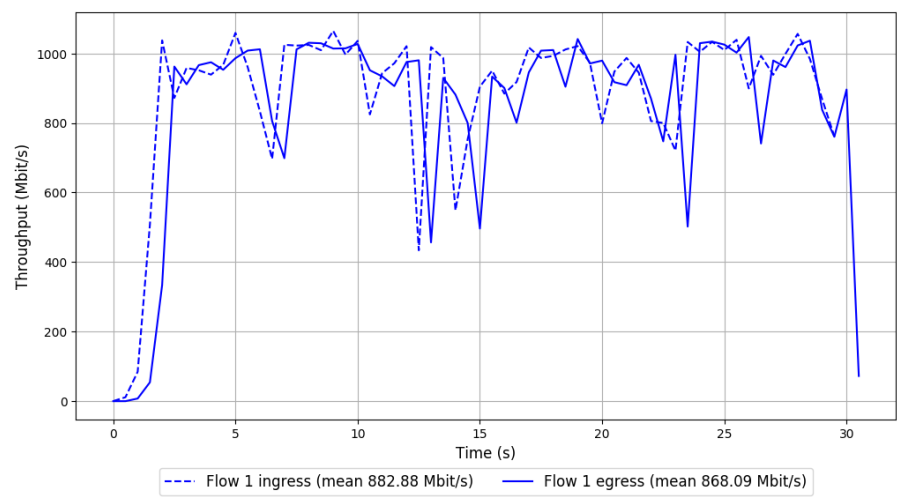


Run 4: Statistics of FillP-Sheep

Start at: 2019-02-19 20:33:15
End at: 2019-02-19 20:33:45
Local clock offset: 4.091 ms
Remote clock offset: 6.81 ms

Below is generated by plot.py at 2019-02-19 22:16:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 868.09 Mbit/s
95th percentile per-packet one-way delay: 164.911 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 868.09 Mbit/s
95th percentile per-packet one-way delay: 164.911 ms
Loss rate: 1.67%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-02-19 21:05:37

End at: 2019-02-19 21:06:07

Local clock offset: 1.218 ms

Remote clock offset: 1.988 ms

Below is generated by plot.py at 2019-02-19 22:21:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.17 Mbit/s

95th percentile per-packet one-way delay: 137.758 ms

Loss rate: 0.09%

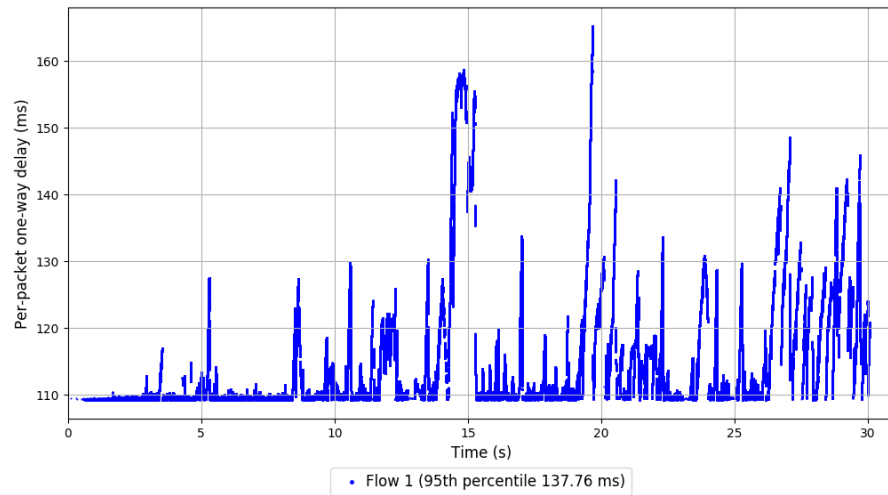
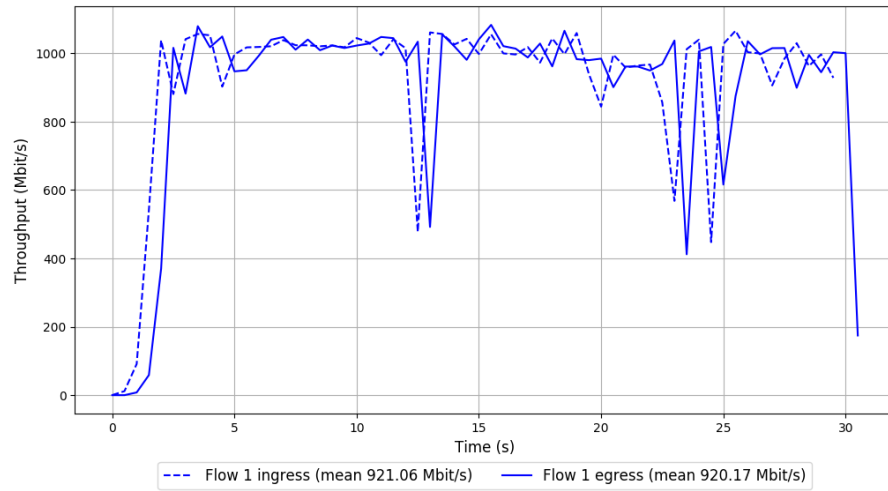
-- Flow 1:

Average throughput: 920.17 Mbit/s

95th percentile per-packet one-way delay: 137.758 ms

Loss rate: 0.09%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-02-19 18:40:01

End at: 2019-02-19 18:40:31

Local clock offset: 7.878 ms

Remote clock offset: 8.155 ms

Below is generated by plot.py at 2019-02-19 22:21:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.10 Mbit/s

95th percentile per-packet one-way delay: 111.566 ms

Loss rate: 0.00%

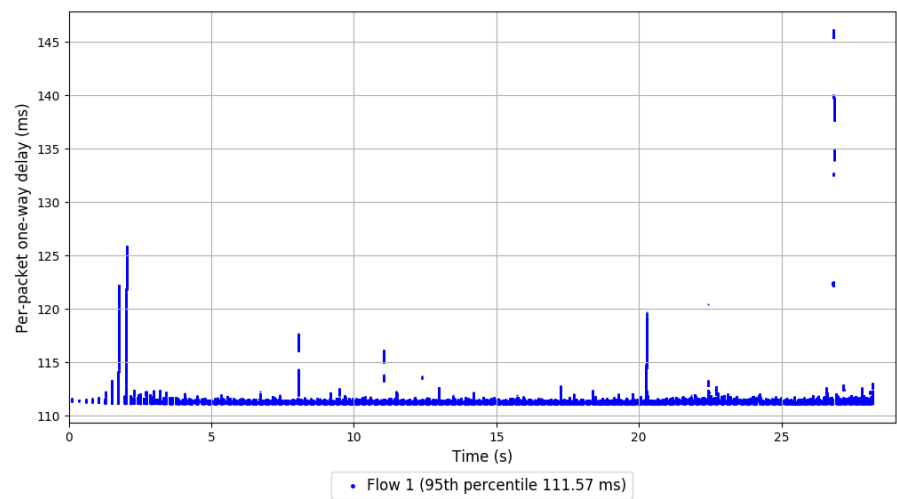
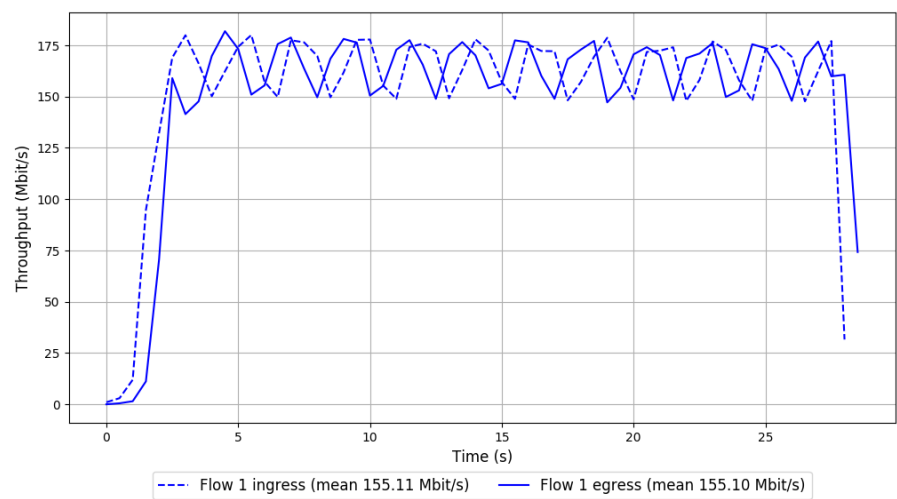
-- Flow 1:

Average throughput: 155.10 Mbit/s

95th percentile per-packet one-way delay: 111.566 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

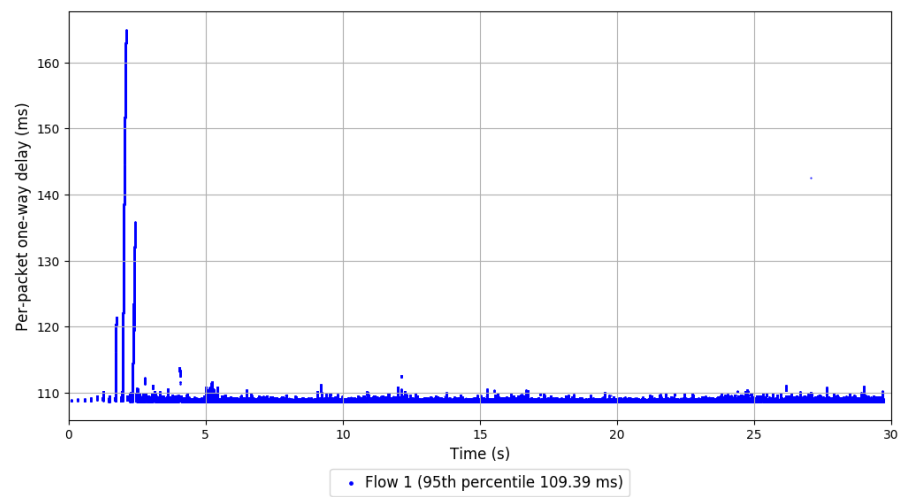
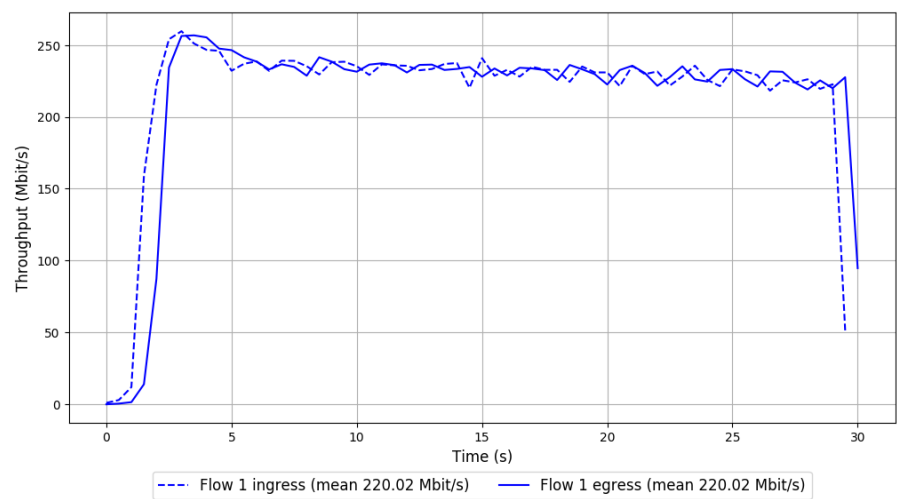


Run 2: Statistics of Indigo

Start at: 2019-02-19 19:12:23
End at: 2019-02-19 19:12:53
Local clock offset: 17.731 ms
Remote clock offset: 18.002 ms

Below is generated by plot.py at 2019-02-19 22:21:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 220.02 Mbit/s
95th percentile per-packet one-way delay: 109.391 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.02 Mbit/s
95th percentile per-packet one-way delay: 109.391 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

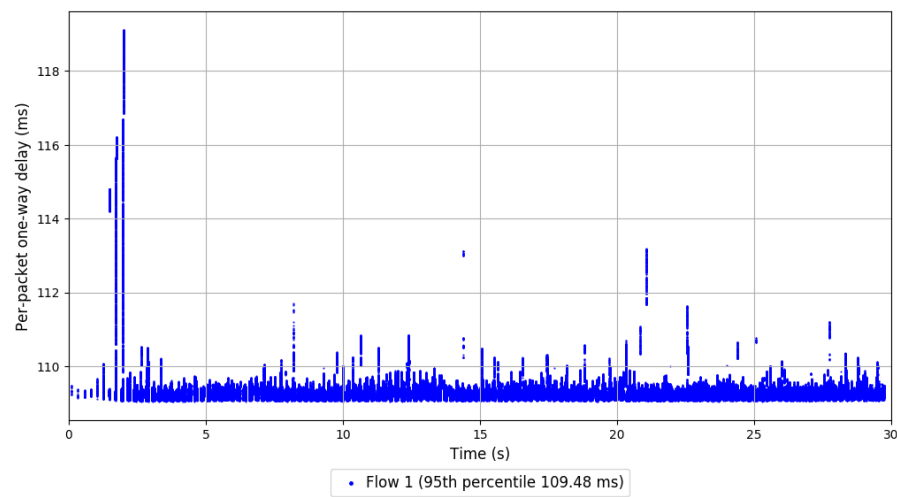
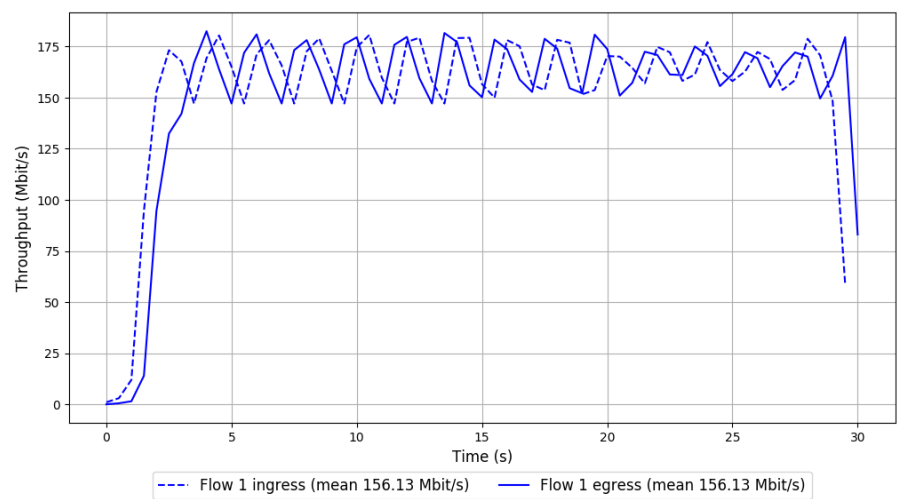


Run 3: Statistics of Indigo

Start at: 2019-02-19 19:44:40
End at: 2019-02-19 19:45:10
Local clock offset: 19.653 ms
Remote clock offset: 20.138 ms

Below is generated by plot.py at 2019-02-19 22:21:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 156.13 Mbit/s
95th percentile per-packet one-way delay: 109.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.13 Mbit/s
95th percentile per-packet one-way delay: 109.483 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

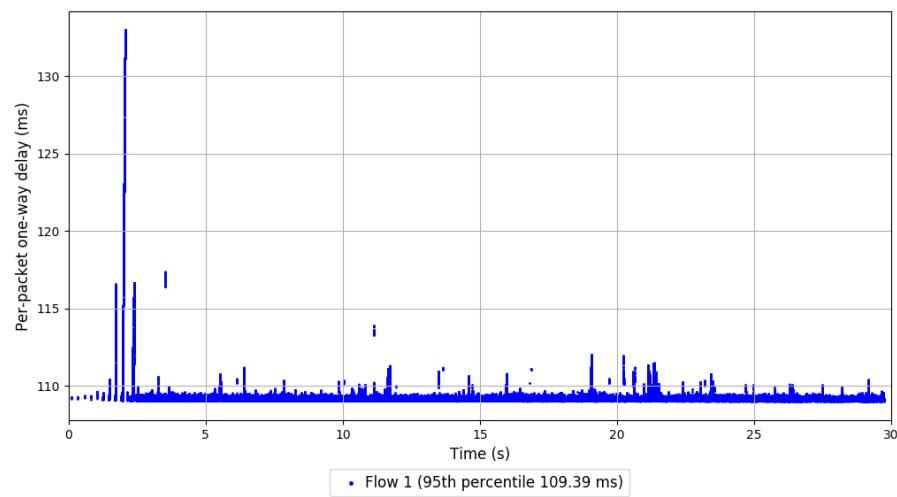
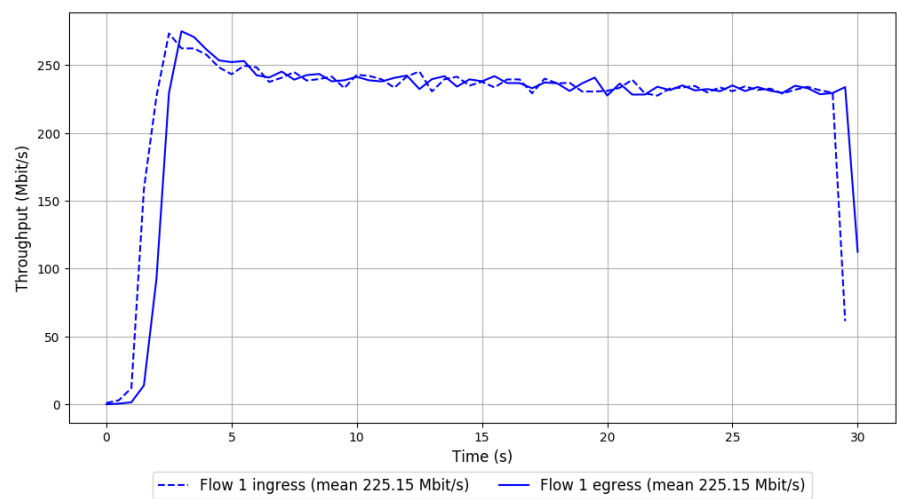


Run 4: Statistics of Indigo

Start at: 2019-02-19 20:16:50
End at: 2019-02-19 20:17:20
Local clock offset: 10.952 ms
Remote clock offset: 11.686 ms

Below is generated by plot.py at 2019-02-19 22:21:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 225.15 Mbit/s
95th percentile per-packet one-way delay: 109.395 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.15 Mbit/s
95th percentile per-packet one-way delay: 109.395 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-02-19 20:49:18

End at: 2019-02-19 20:49:48

Local clock offset: 3.189 ms

Remote clock offset: 5.73 ms

Below is generated by plot.py at 2019-02-19 22:21:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.04 Mbit/s

95th percentile per-packet one-way delay: 109.178 ms

Loss rate: 0.00%

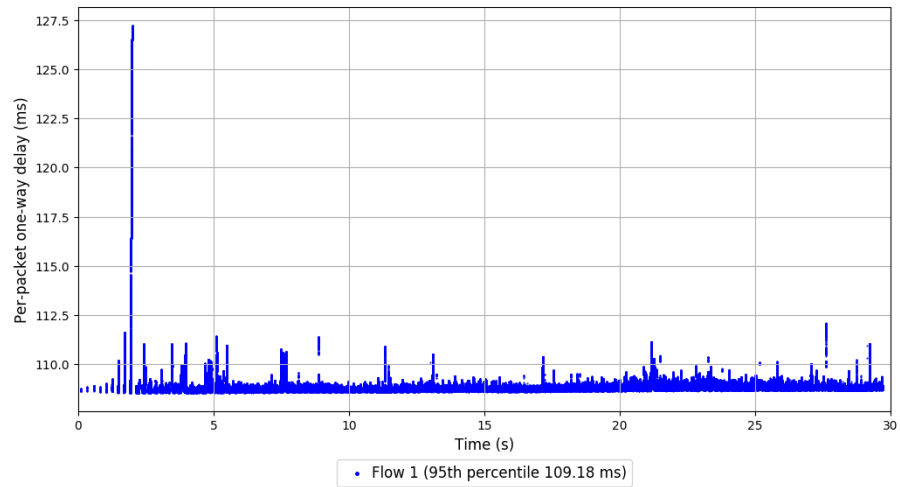
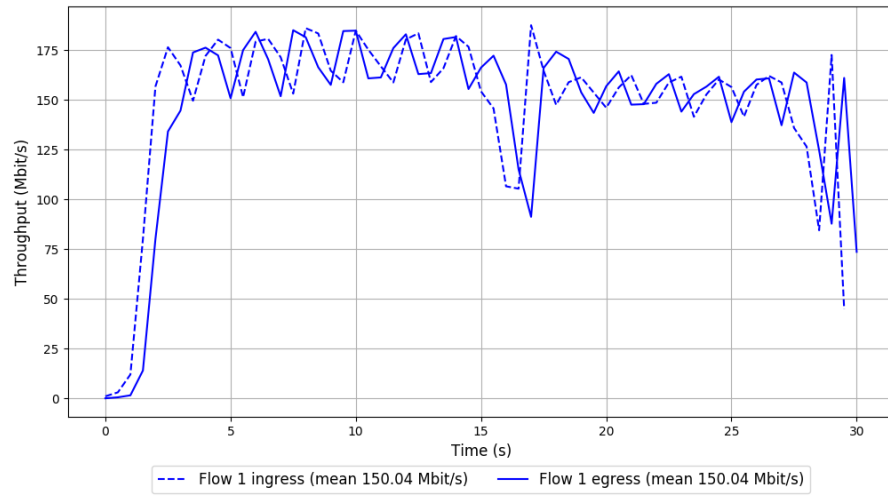
-- Flow 1:

Average throughput: 150.04 Mbit/s

95th percentile per-packet one-way delay: 109.178 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

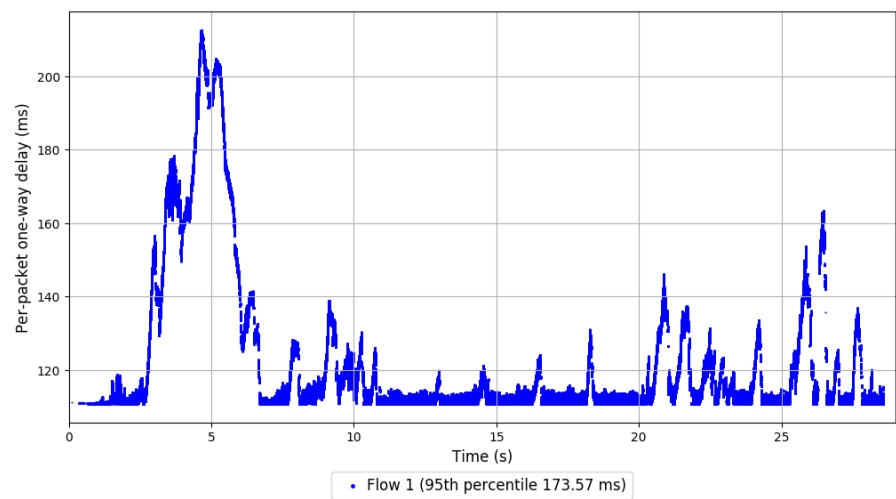
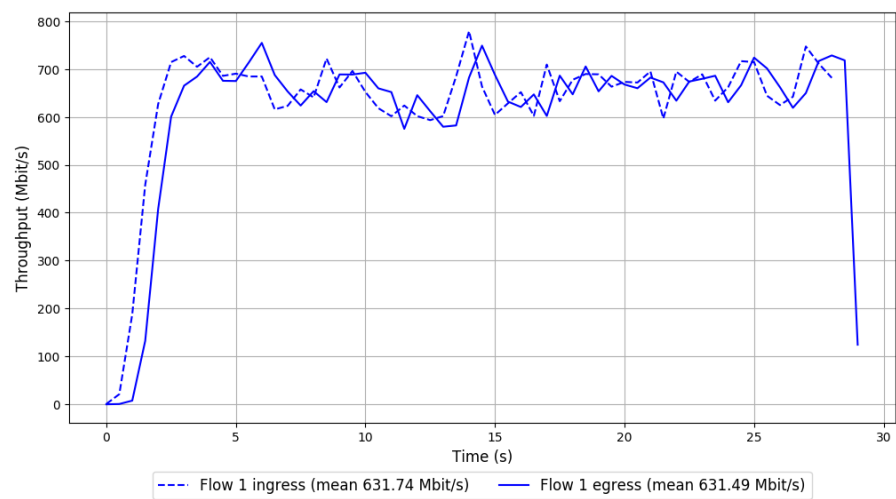


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-02-19 18:44:21
End at: 2019-02-19 18:44:51
Local clock offset: 12.261 ms
Remote clock offset: 13.034 ms

Below is generated by plot.py at 2019-02-19 22:21:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 631.49 Mbit/s
95th percentile per-packet one-way delay: 173.570 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 631.49 Mbit/s
95th percentile per-packet one-way delay: 173.570 ms
Loss rate: 0.04%

Run 1: Report of Indigo-MusesC3 — Data Link

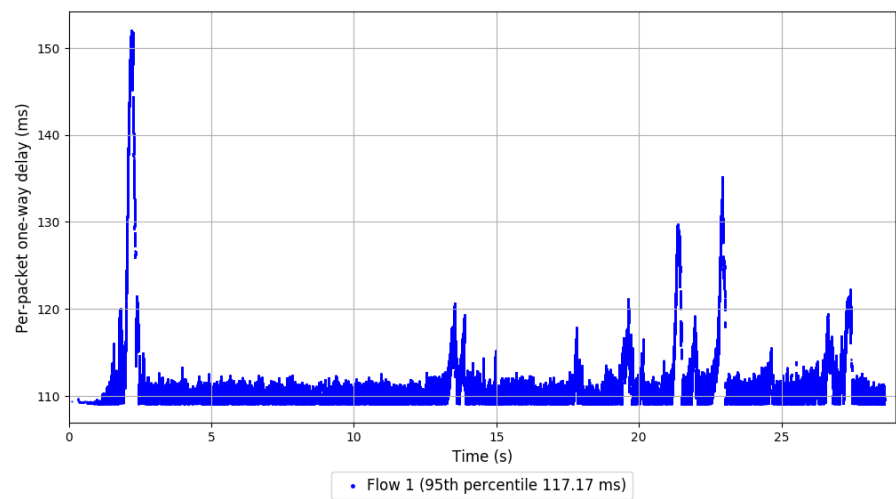
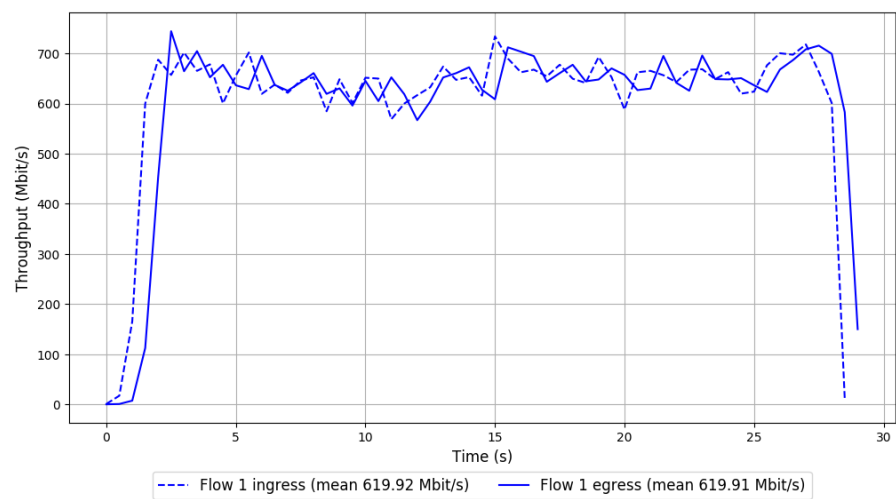


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-02-19 19:16:54
End at: 2019-02-19 19:17:24
Local clock offset: 18.875 ms
Remote clock offset: 19.564 ms

Below is generated by plot.py at 2019-02-19 22:21:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 619.91 Mbit/s
95th percentile per-packet one-way delay: 117.170 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 619.91 Mbit/s
95th percentile per-packet one-way delay: 117.170 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link

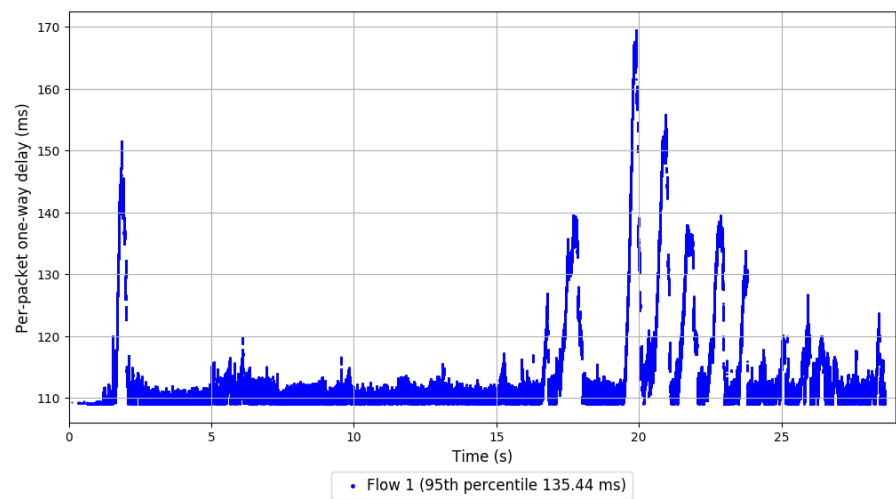
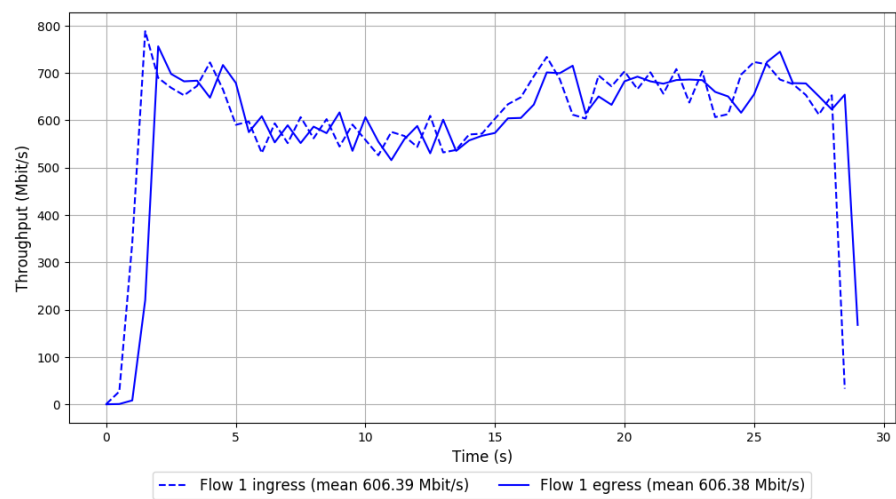


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-02-19 19:49:03
End at: 2019-02-19 19:49:33
Local clock offset: 15.405 ms
Remote clock offset: 16.157 ms

Below is generated by plot.py at 2019-02-19 22:22:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 606.38 Mbit/s
95th percentile per-packet one-way delay: 135.436 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 606.38 Mbit/s
95th percentile per-packet one-way delay: 135.436 ms
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-02-19 20:21:19

End at: 2019-02-19 20:21:49

Local clock offset: 7.265 ms

Remote clock offset: 8.431 ms

Below is generated by plot.py at 2019-02-19 22:23:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 629.97 Mbit/s

95th percentile per-packet one-way delay: 127.756 ms

Loss rate: 0.00%

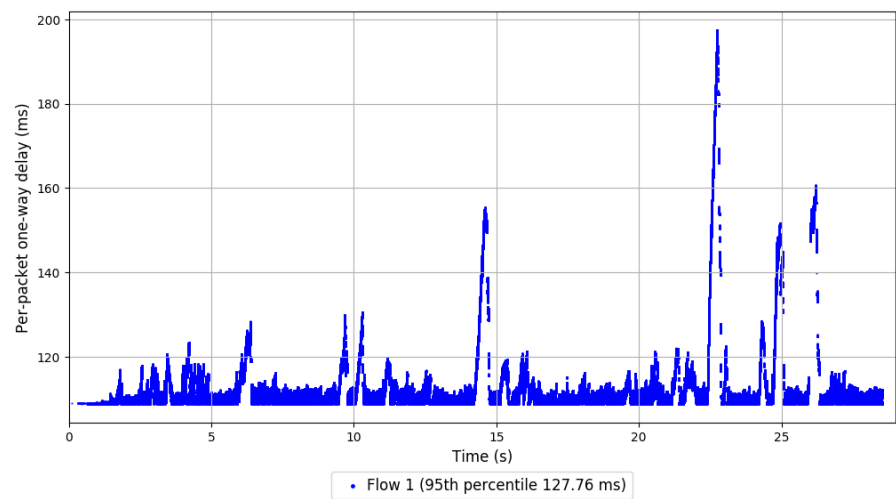
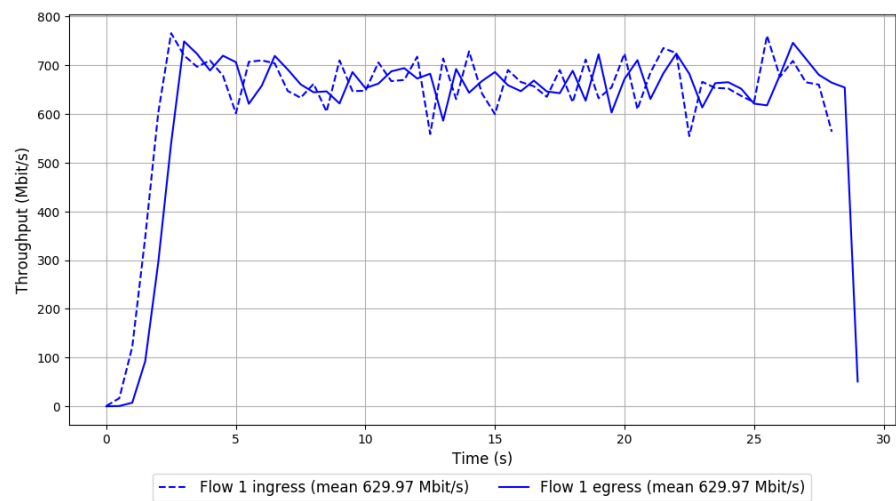
-- Flow 1:

Average throughput: 629.97 Mbit/s

95th percentile per-packet one-way delay: 127.756 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-02-19 20:53:38

End at: 2019-02-19 20:54:08

Local clock offset: 2.22 ms

Remote clock offset: 3.962 ms

Below is generated by plot.py at 2019-02-19 22:24:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 615.85 Mbit/s

95th percentile per-packet one-way delay: 123.850 ms

Loss rate: 0.01%

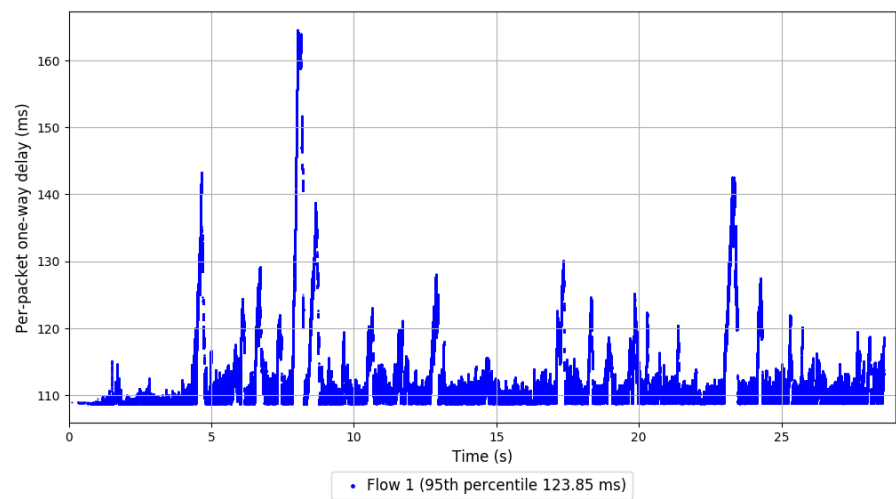
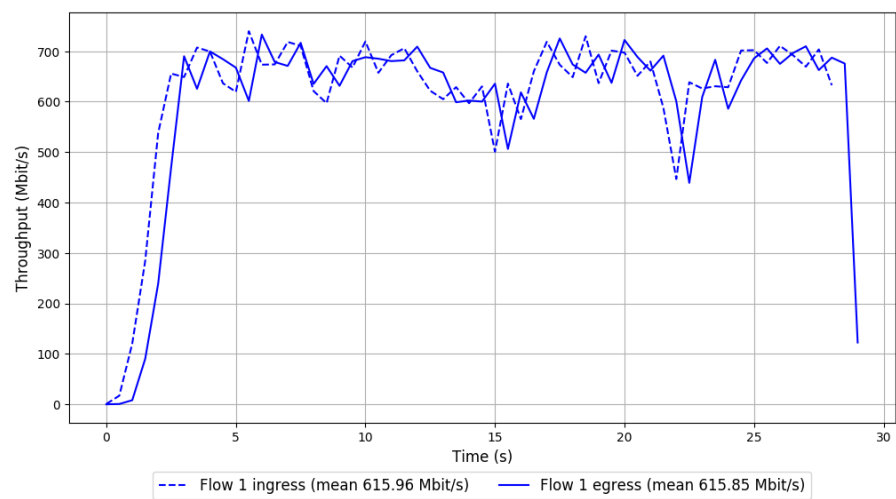
-- Flow 1:

Average throughput: 615.85 Mbit/s

95th percentile per-packet one-way delay: 123.850 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC3 — Data Link

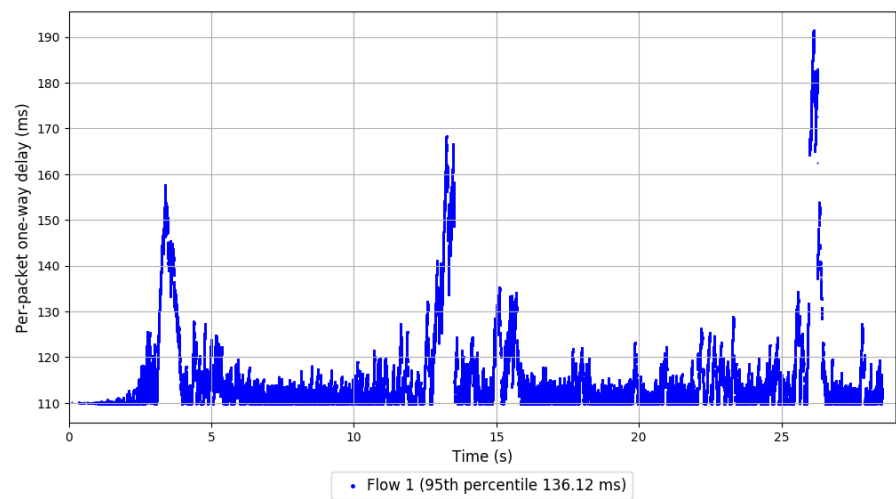
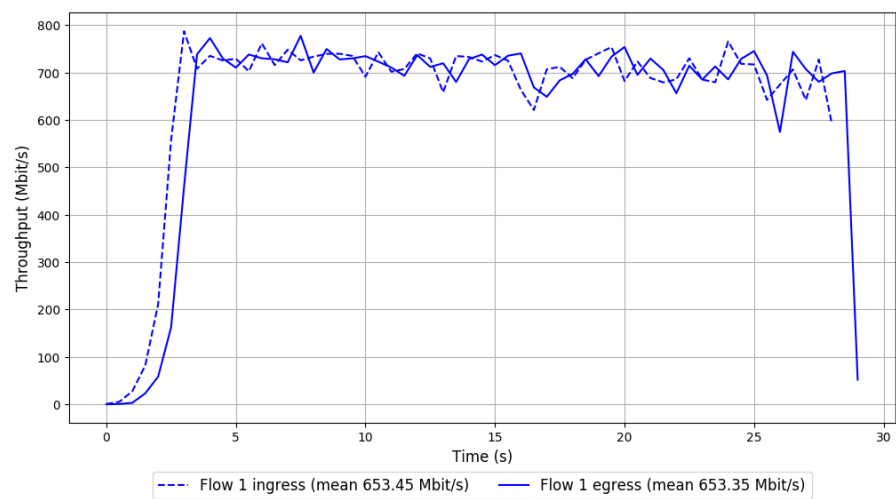


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-02-19 18:42:38
End at: 2019-02-19 18:43:08
Local clock offset: 9.472 ms
Remote clock offset: 10.514 ms

Below is generated by plot.py at 2019-02-19 22:25:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 653.35 Mbit/s
95th percentile per-packet one-way delay: 136.116 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 653.35 Mbit/s
95th percentile per-packet one-way delay: 136.116 ms
Loss rate: 0.01%

Run 1: Report of Indigo-MusesC5 — Data Link

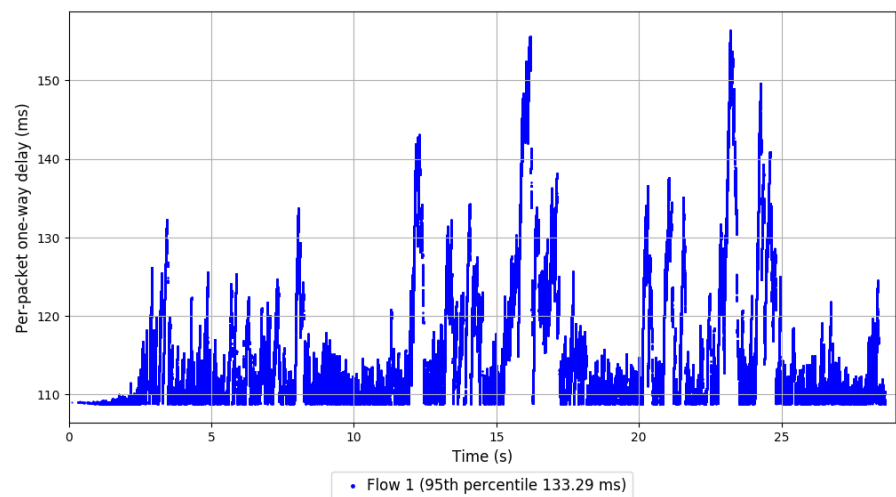
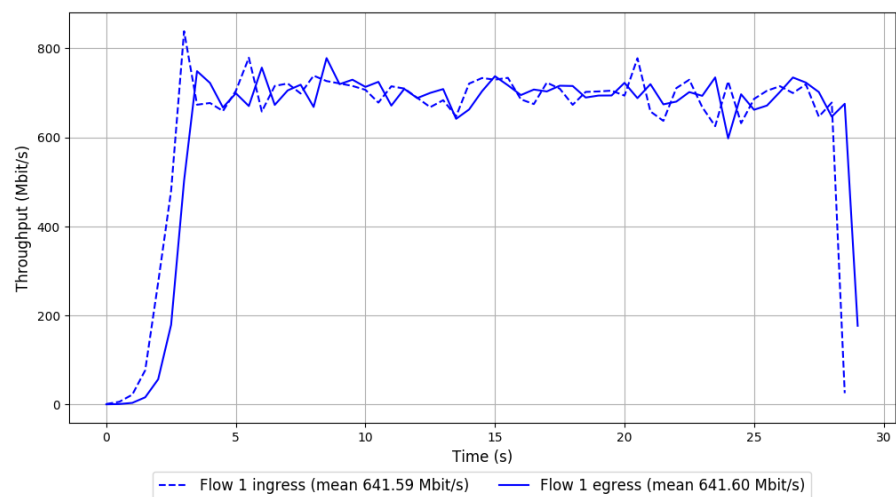


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-02-19 19:15:10
End at: 2019-02-19 19:15:40
Local clock offset: 18.008 ms
Remote clock offset: 19.237 ms

Below is generated by plot.py at 2019-02-19 22:27:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 641.60 Mbit/s
95th percentile per-packet one-way delay: 133.295 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 641.60 Mbit/s
95th percentile per-packet one-way delay: 133.295 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link

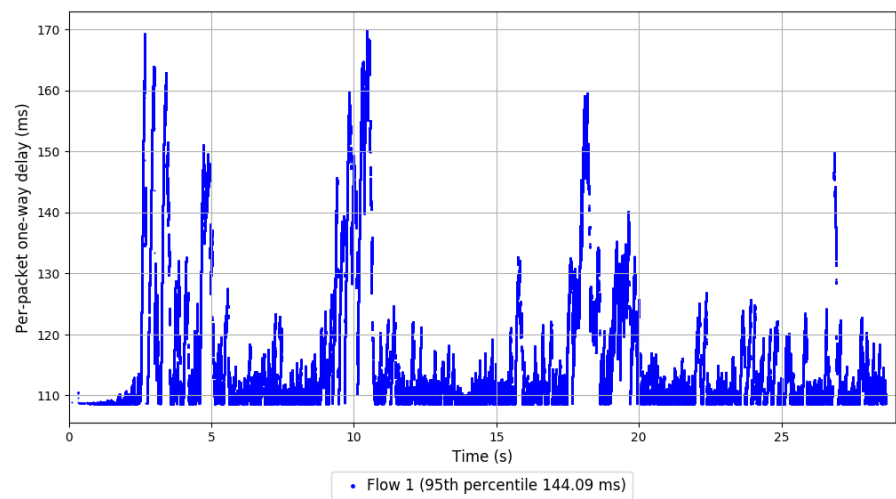
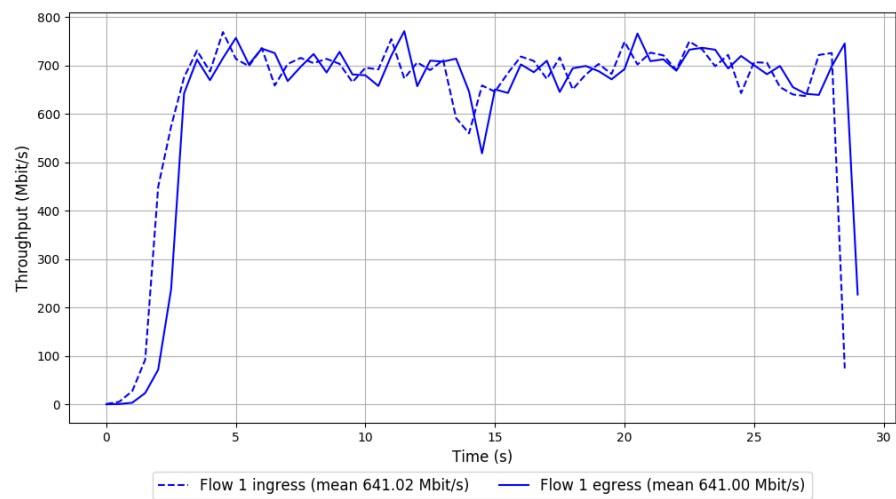


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-02-19 19:47:20
End at: 2019-02-19 19:47:50
Local clock offset: 16.841 ms
Remote clock offset: 17.146 ms

Below is generated by plot.py at 2019-02-19 22:31:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 641.00 Mbit/s
95th percentile per-packet one-way delay: 144.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 641.00 Mbit/s
95th percentile per-packet one-way delay: 144.095 ms
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-02-19 20:19:36

End at: 2019-02-19 20:20:06

Local clock offset: 8.348 ms

Remote clock offset: 9.782 ms

Below is generated by plot.py at 2019-02-19 22:33:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 646.40 Mbit/s

95th percentile per-packet one-way delay: 151.631 ms

Loss rate: 0.07%

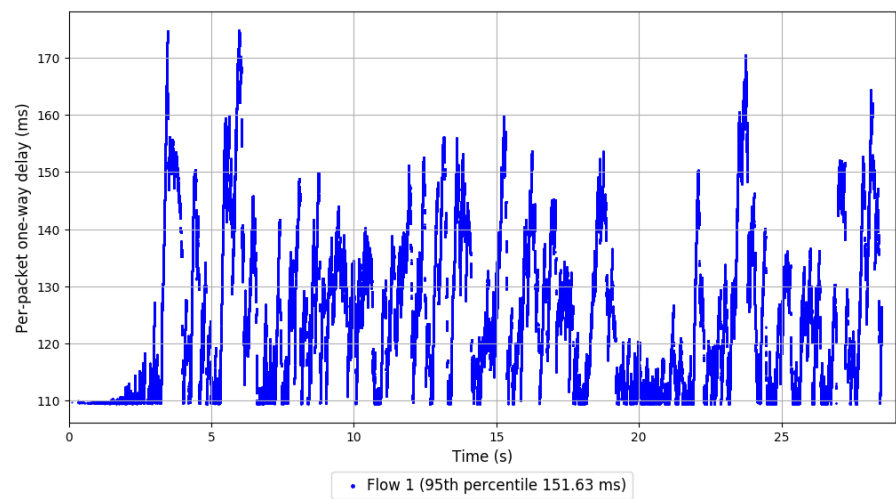
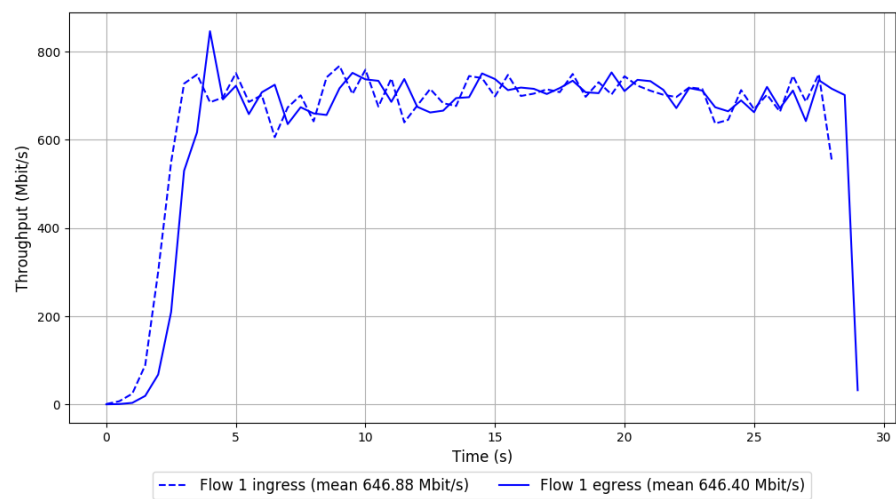
-- Flow 1:

Average throughput: 646.40 Mbit/s

95th percentile per-packet one-way delay: 151.631 ms

Loss rate: 0.07%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-02-19 20:51:58

End at: 2019-02-19 20:52:28

Local clock offset: 2.278 ms

Remote clock offset: 5.057 ms

Below is generated by plot.py at 2019-02-19 22:33:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 631.03 Mbit/s

95th percentile per-packet one-way delay: 145.660 ms

Loss rate: 0.00%

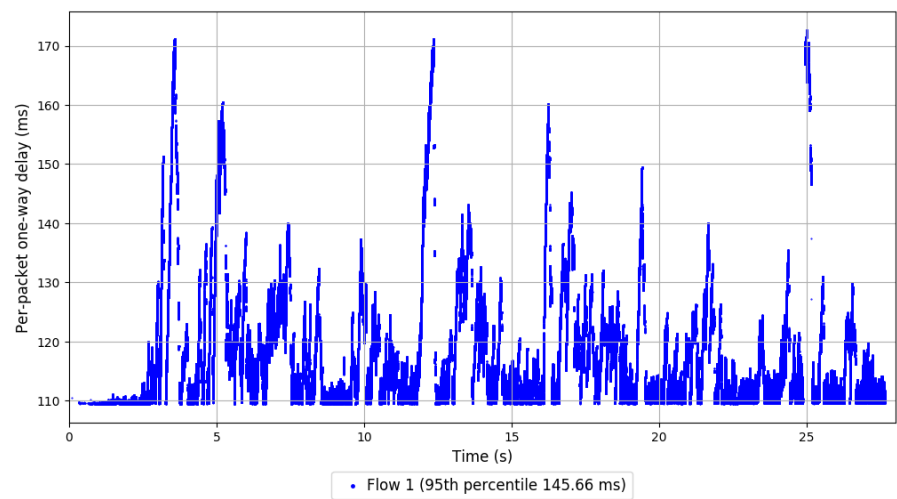
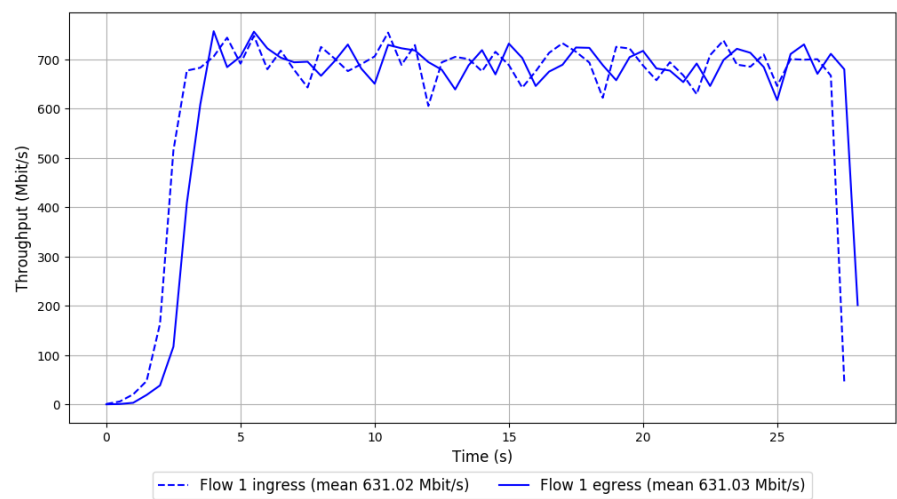
-- Flow 1:

Average throughput: 631.03 Mbit/s

95th percentile per-packet one-way delay: 145.660 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

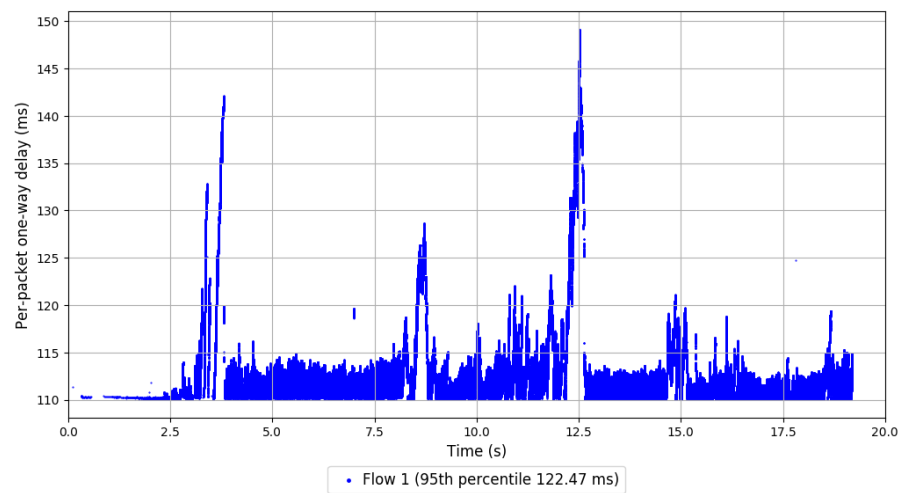
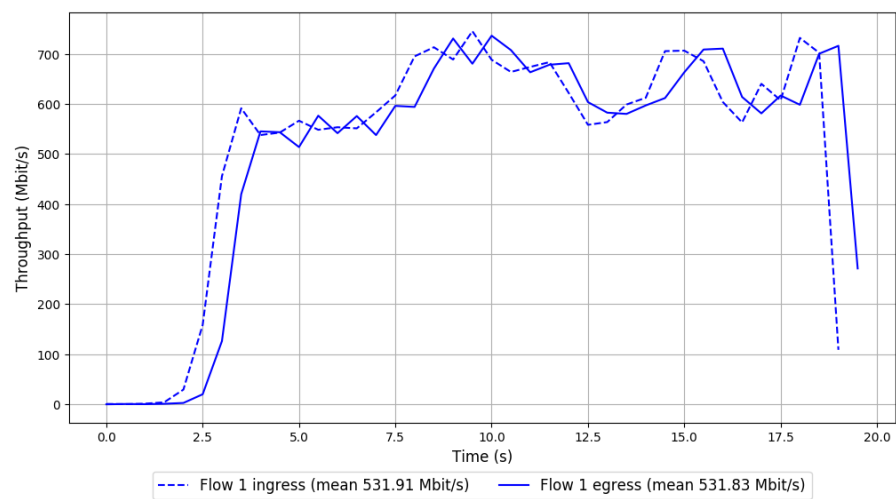
Start at: 2019-02-19 18:37:01

End at: 2019-02-19 18:37:31

Local clock offset: 8.113 ms

Remote clock offset: 9.165 ms

Run 1: Report of Indigo-MusesD — Data Link

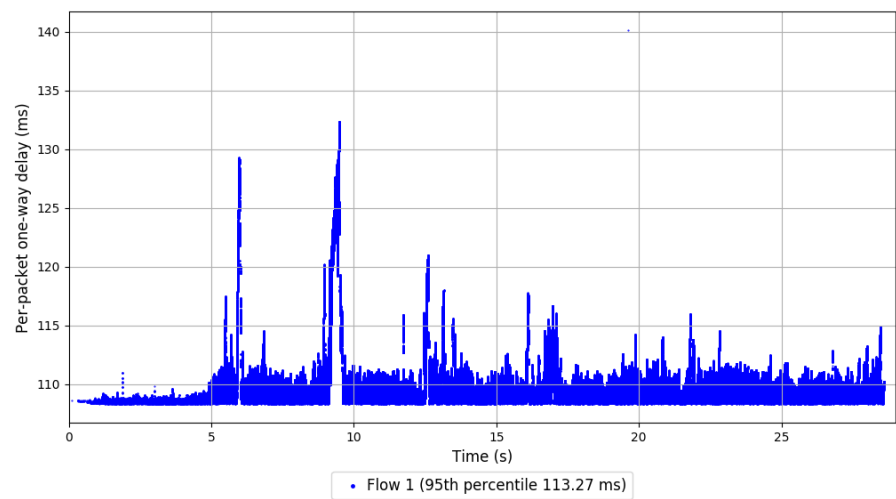
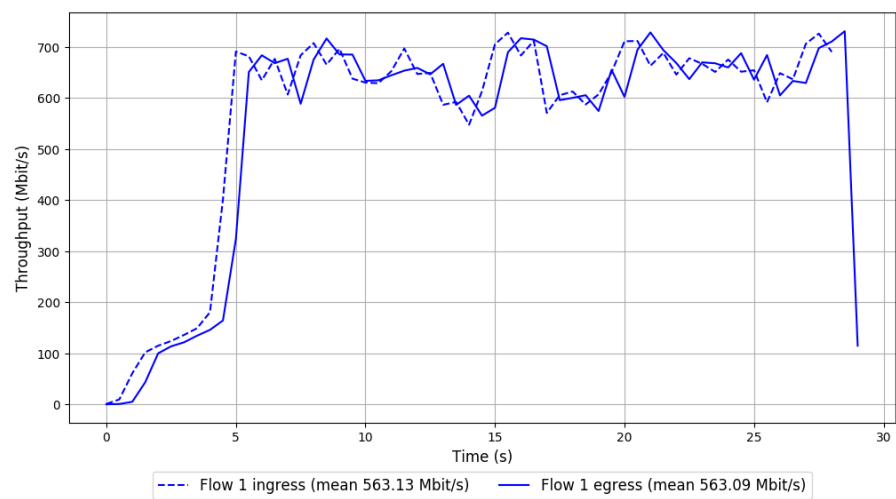


Run 2: Statistics of Indigo-MusesD

Start at: 2019-02-19 19:09:13
End at: 2019-02-19 19:09:43
Local clock offset: 18.134 ms
Remote clock offset: 18.869 ms

Below is generated by plot.py at 2019-02-19 22:34:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 563.09 Mbit/s
95th percentile per-packet one-way delay: 113.265 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 563.09 Mbit/s
95th percentile per-packet one-way delay: 113.265 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-02-19 19:41:34

End at: 2019-02-19 19:42:04

Local clock offset: 24.694 ms

Remote clock offset: 25.115 ms

Below is generated by plot.py at 2019-02-19 22:34:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 502.58 Mbit/s

95th percentile per-packet one-way delay: 113.880 ms

Loss rate: 0.00%

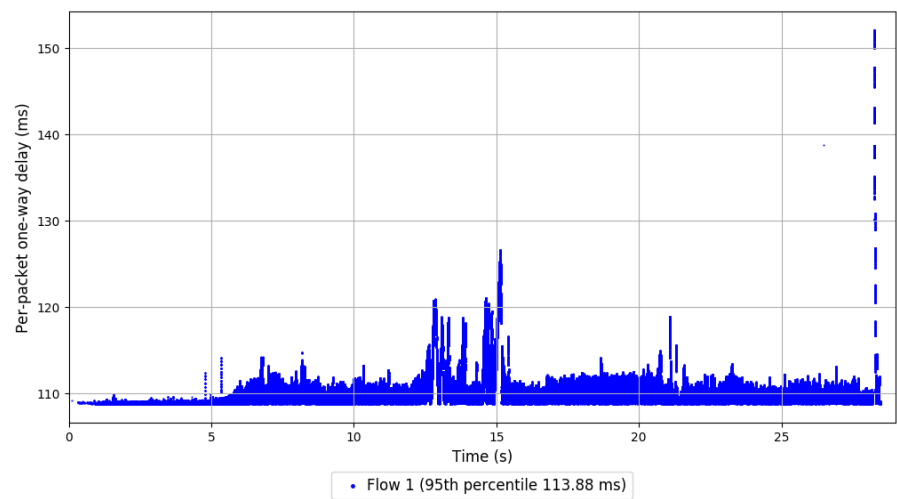
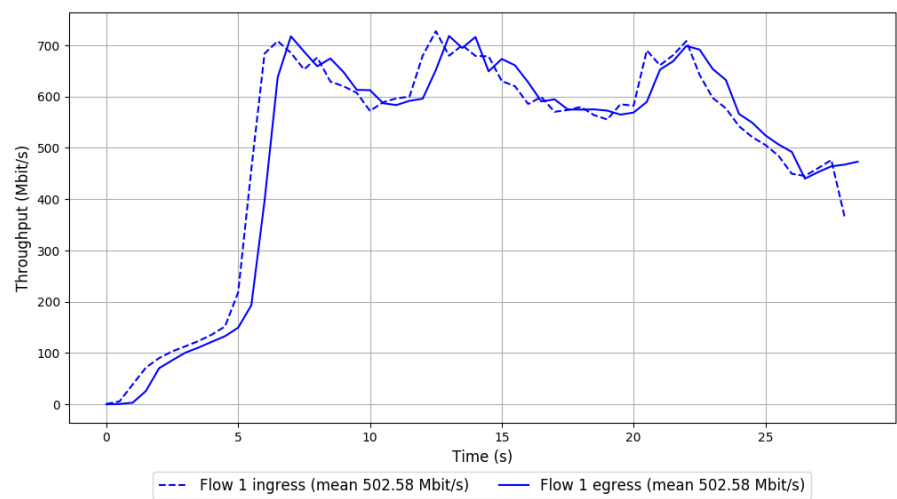
-- Flow 1:

Average throughput: 502.58 Mbit/s

95th percentile per-packet one-way delay: 113.880 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link

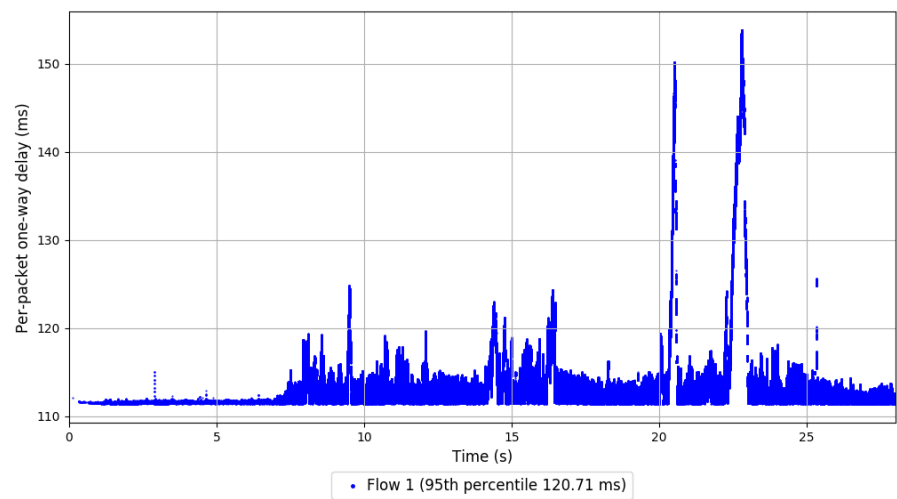
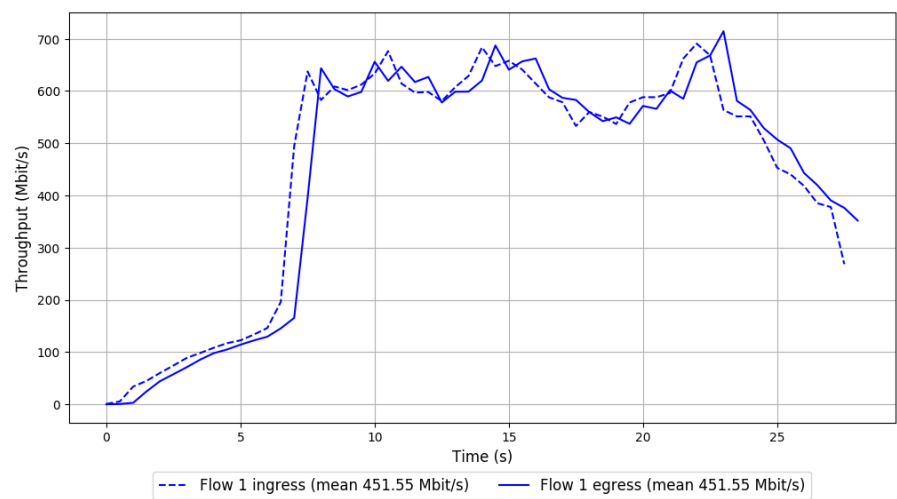


Run 4: Statistics of Indigo-MusesD

Start at: 2019-02-19 20:13:47
End at: 2019-02-19 20:14:17
Local clock offset: 14.675 ms
Remote clock offset: 15.447 ms

Below is generated by plot.py at 2019-02-19 22:34:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 451.55 Mbit/s
95th percentile per-packet one-way delay: 120.711 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 451.55 Mbit/s
95th percentile per-packet one-way delay: 120.711 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-02-19 20:46:12

End at: 2019-02-19 20:46:42

Local clock offset: 4.301 ms

Remote clock offset: 8.608 ms

Below is generated by plot.py at 2019-02-19 22:36:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 508.05 Mbit/s

95th percentile per-packet one-way delay: 137.187 ms

Loss rate: 0.00%

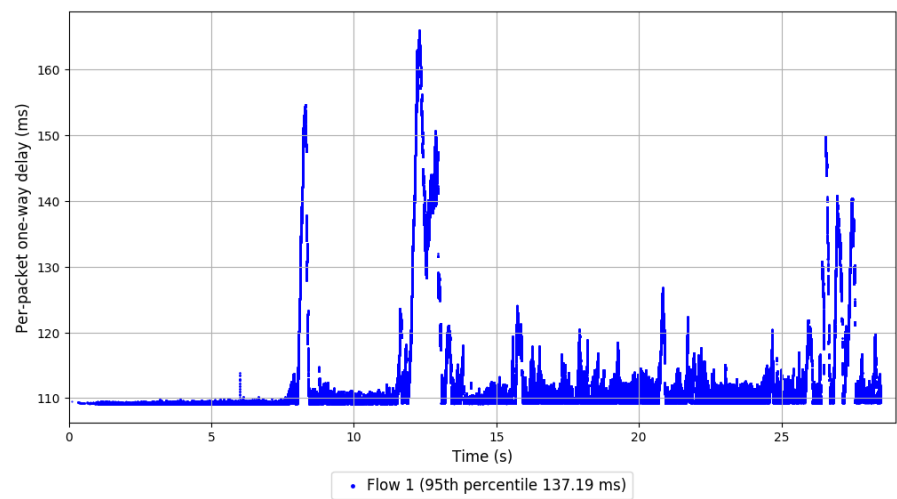
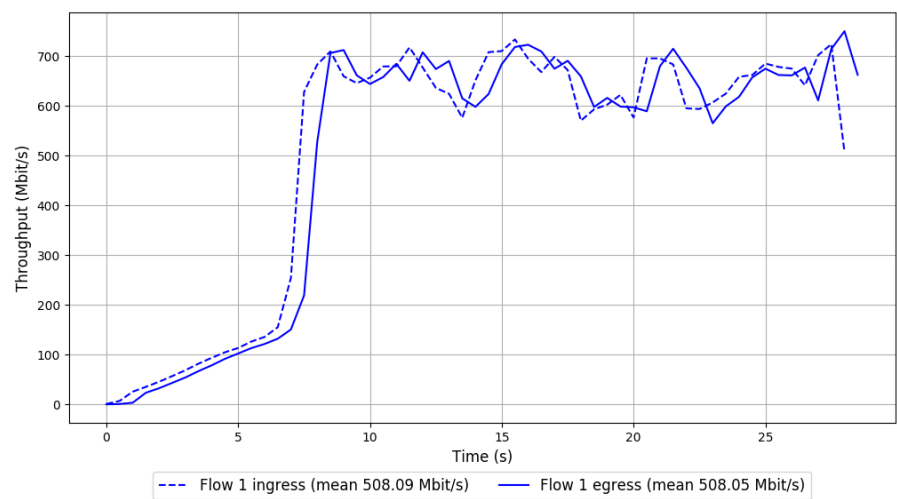
-- Flow 1:

Average throughput: 508.05 Mbit/s

95th percentile per-packet one-way delay: 137.187 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link

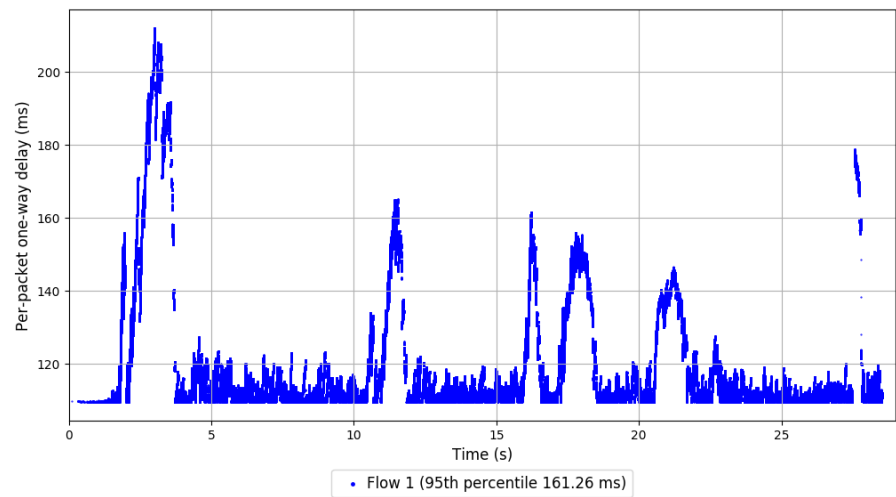
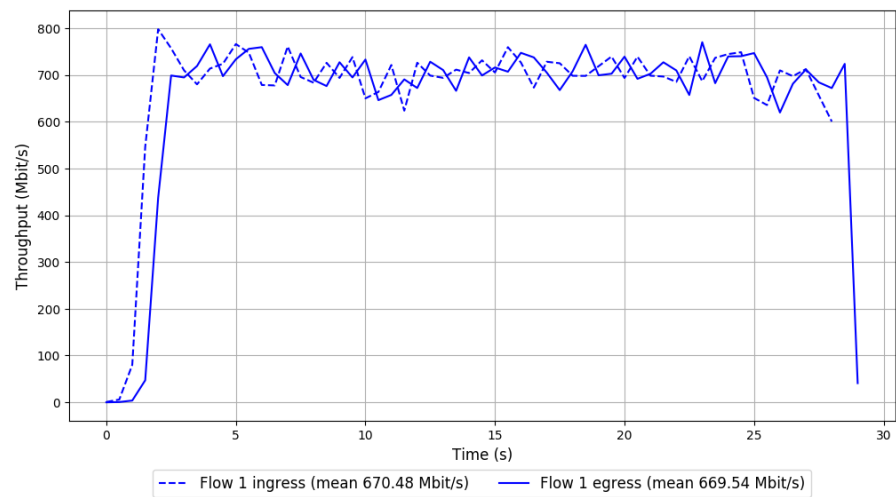


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-02-19 18:52:56
End at: 2019-02-19 18:53:26
Local clock offset: 12.257 ms
Remote clock offset: 12.931 ms

# Below is generated by plot.py at 2019-02-19 22:40:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 669.54 Mbit/s
95th percentile per-packet one-way delay: 161.265 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 669.54 Mbit/s
95th percentile per-packet one-way delay: 161.265 ms
Loss rate: 0.14%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-02-19 19:25:28

End at: 2019-02-19 19:25:58

Local clock offset: 24.562 ms

Remote clock offset: 26.001 ms

Below is generated by plot.py at 2019-02-19 22:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 664.39 Mbit/s

95th percentile per-packet one-way delay: 162.994 ms

Loss rate: 0.10%

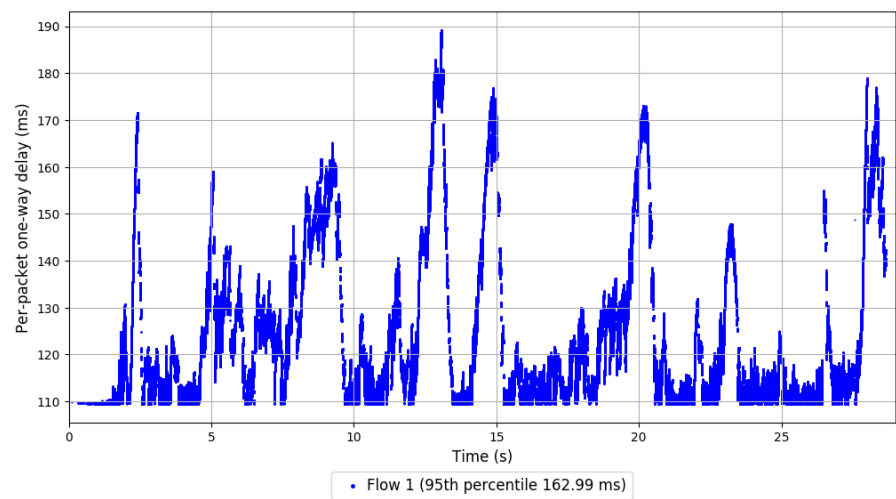
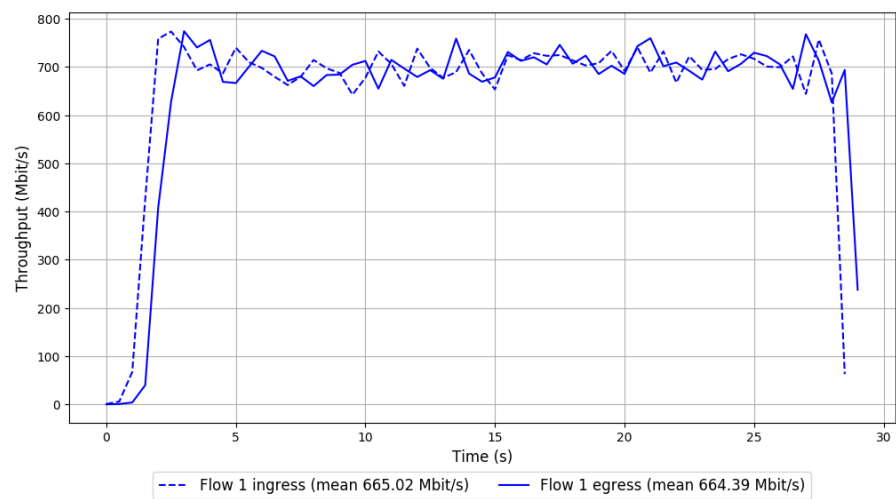
-- Flow 1:

Average throughput: 664.39 Mbit/s

95th percentile per-packet one-way delay: 162.994 ms

Loss rate: 0.10%

Run 2: Report of Indigo-MusesT — Data Link

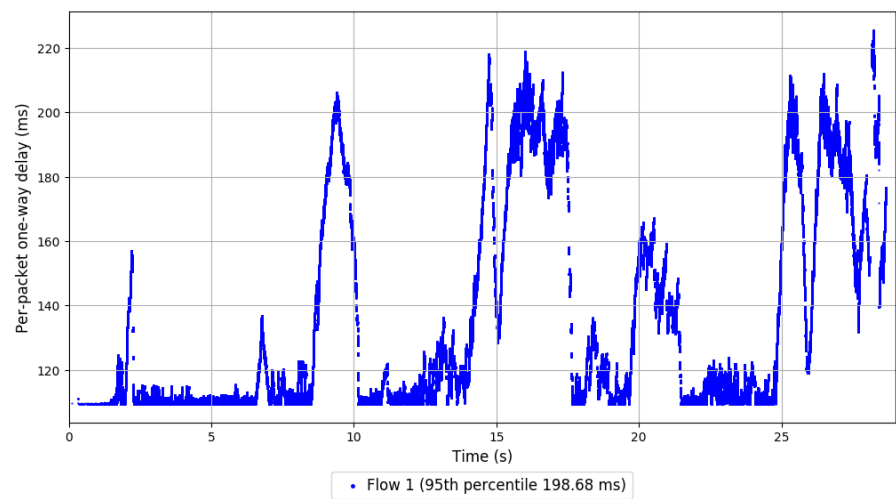
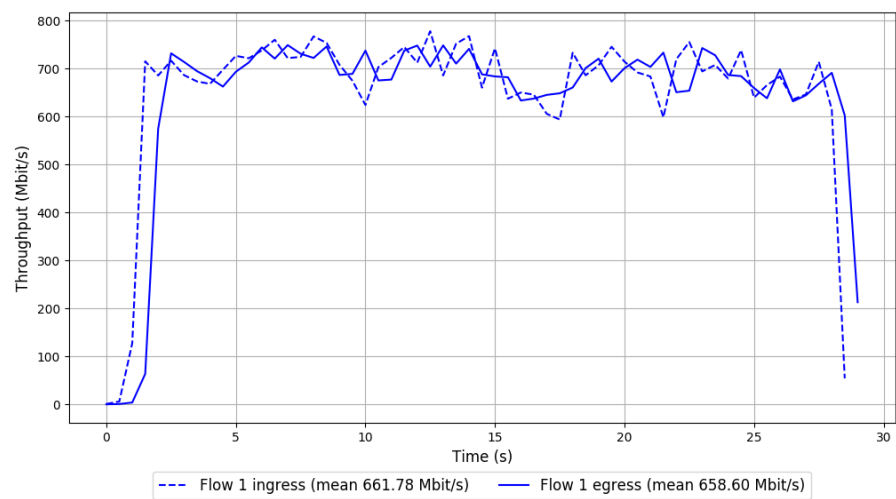


Run 3: Statistics of Indigo-MusesT

Start at: 2019-02-19 19:57:39
End at: 2019-02-19 19:58:09
Local clock offset: 13.689 ms
Remote clock offset: 14.279 ms

Below is generated by plot.py at 2019-02-19 22:44:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 658.60 Mbit/s
95th percentile per-packet one-way delay: 198.675 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 658.60 Mbit/s
95th percentile per-packet one-way delay: 198.675 ms
Loss rate: 0.48%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-02-19 20:29:47

End at: 2019-02-19 20:30:17

Local clock offset: 4.058 ms

Remote clock offset: 7.085 ms

Below is generated by plot.py at 2019-02-19 22:44:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 671.25 Mbit/s

95th percentile per-packet one-way delay: 188.522 ms

Loss rate: 0.34%

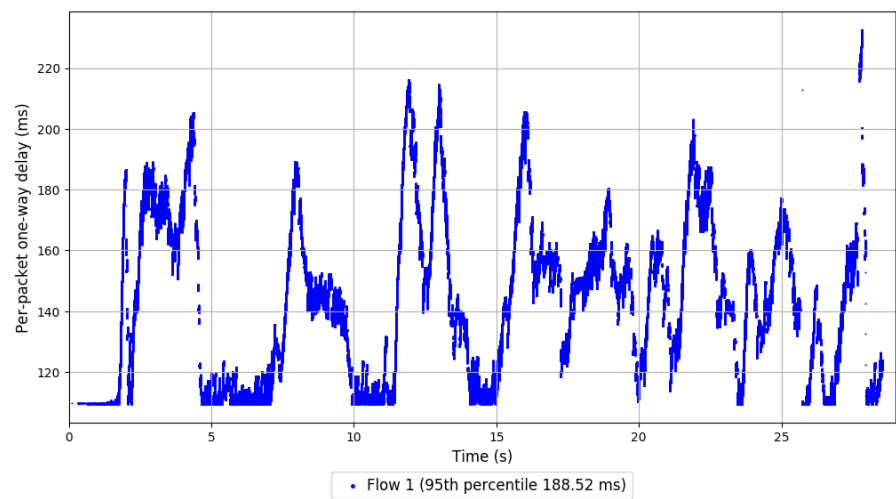
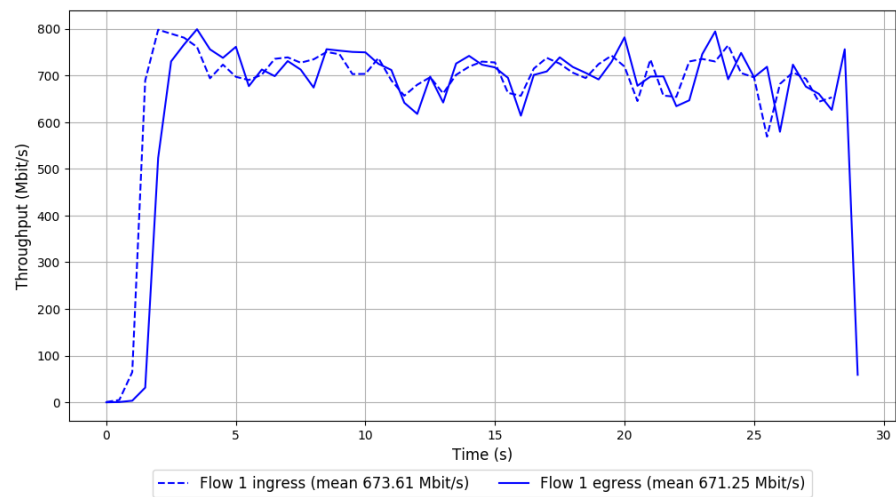
-- Flow 1:

Average throughput: 671.25 Mbit/s

95th percentile per-packet one-way delay: 188.522 ms

Loss rate: 0.34%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-02-19 21:02:08

End at: 2019-02-19 21:02:38

Local clock offset: 1.058 ms

Remote clock offset: 1.832 ms

Below is generated by plot.py at 2019-02-19 22:45:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 667.63 Mbit/s

95th percentile per-packet one-way delay: 173.934 ms

Loss rate: 0.12%

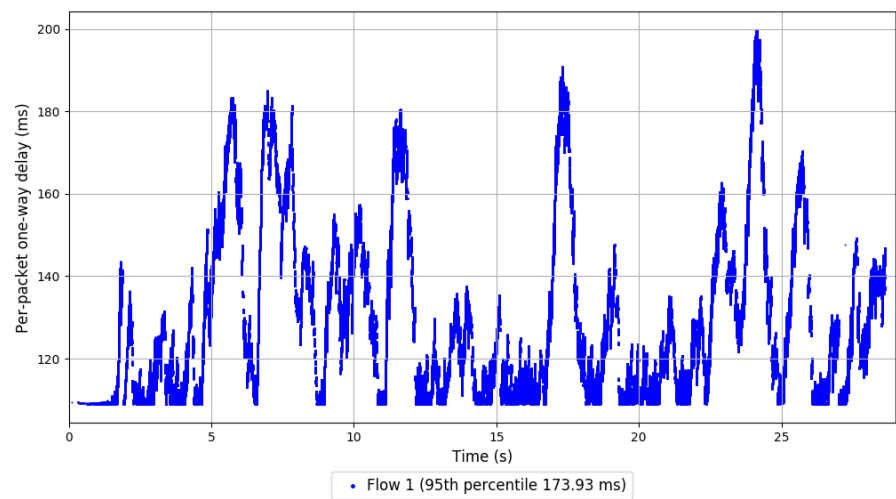
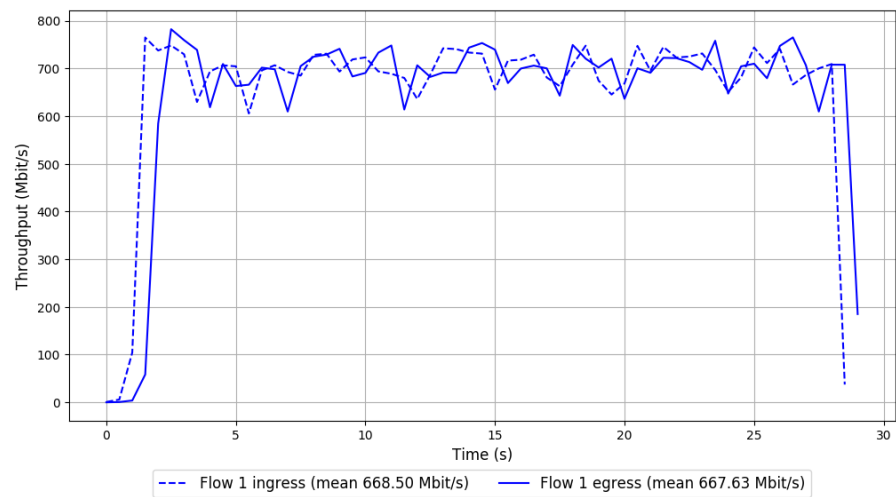
-- Flow 1:

Average throughput: 667.63 Mbit/s

95th percentile per-packet one-way delay: 173.934 ms

Loss rate: 0.12%

Run 5: Report of Indigo-MusesT — Data Link

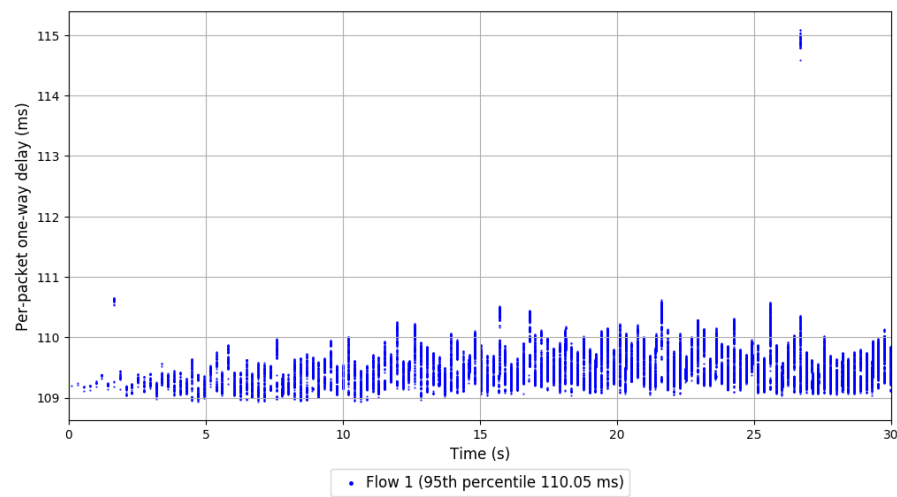
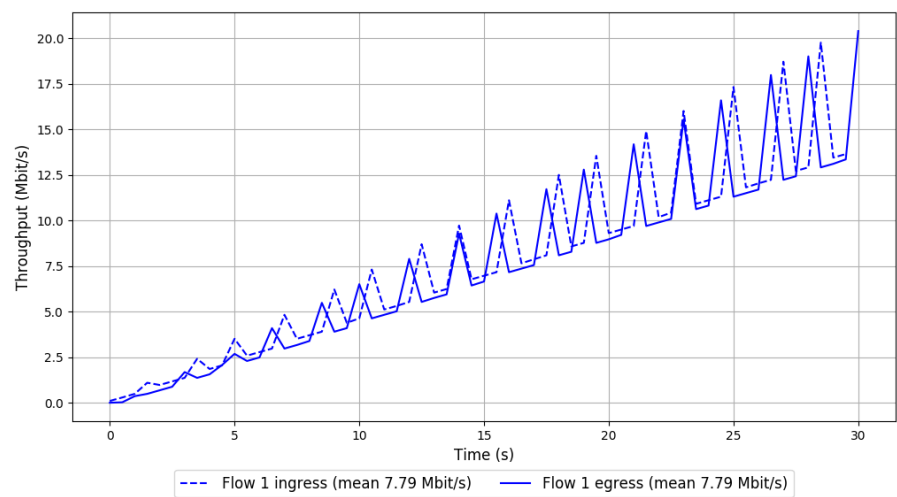


Run 1: Statistics of LEDBAT

Start at: 2019-02-19 19:03:05
End at: 2019-02-19 19:03:35
Local clock offset: 23.214 ms
Remote clock offset: 23.937 ms

Below is generated by plot.py at 2019-02-19 22:45:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 110.052 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 110.052 ms
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-02-19 19:35:42

End at: 2019-02-19 19:36:12

Local clock offset: 33.691 ms

Remote clock offset: 35.49 ms

Below is generated by plot.py at 2019-02-19 22:45:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 110.531 ms

Loss rate: 0.00%

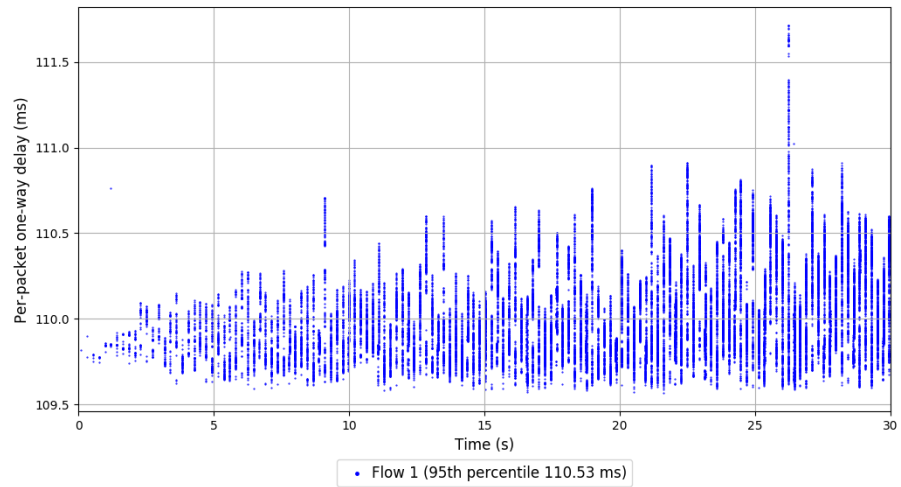
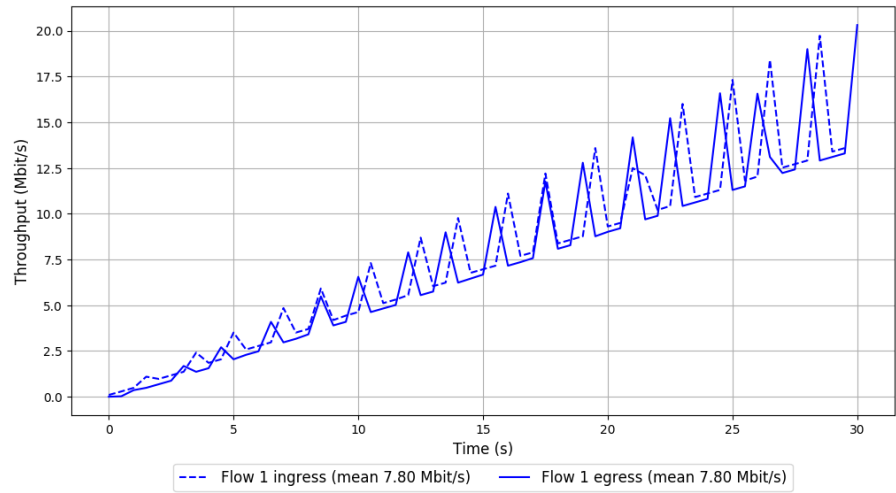
-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 110.531 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

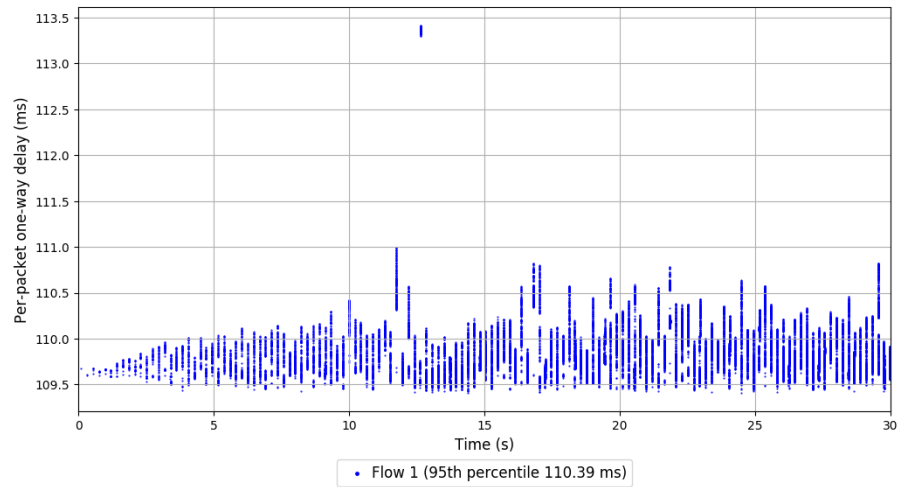
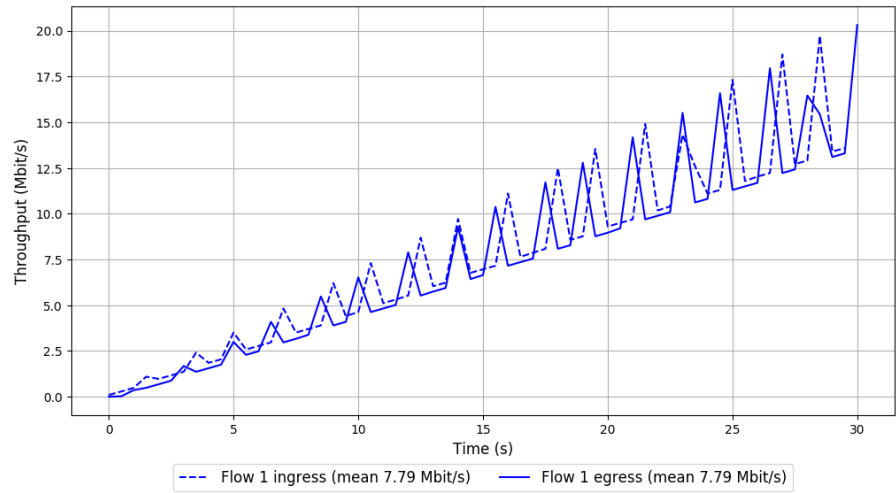


Run 3: Statistics of LEDBAT

Start at: 2019-02-19 20:07:42
End at: 2019-02-19 20:08:13
Local clock offset: 16.437 ms
Remote clock offset: 17.141 ms

Below is generated by plot.py at 2019-02-19 22:45:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 110.386 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 110.386 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-02-19 20:40:13

End at: 2019-02-19 20:40:43

Local clock offset: 3.75 ms

Remote clock offset: 8.082 ms

Below is generated by plot.py at 2019-02-19 22:45:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 110.553 ms

Loss rate: 0.00%

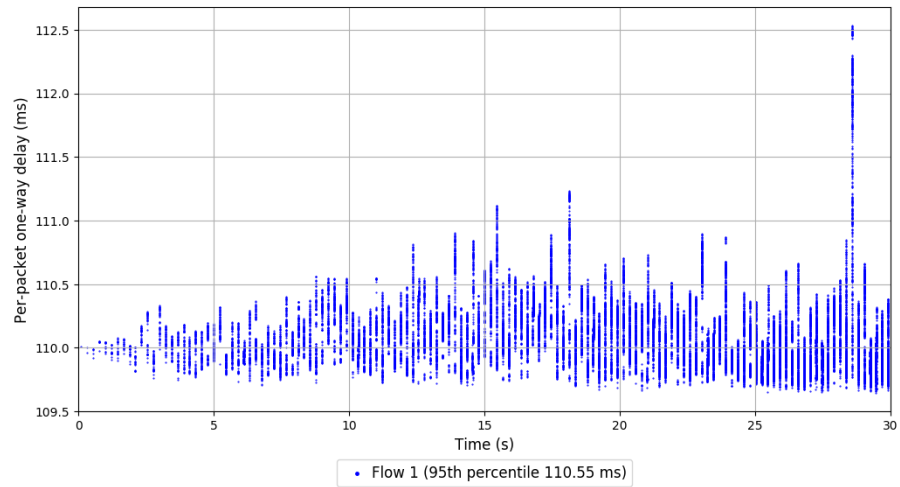
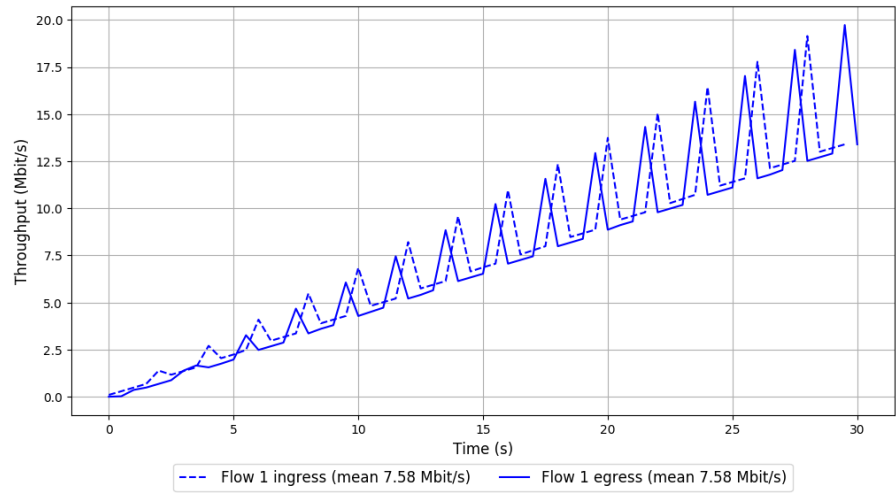
-- Flow 1:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 110.553 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-02-19 21:12:21

End at: 2019-02-19 21:12:51

Local clock offset: 1.252 ms

Remote clock offset: 2.226 ms

Below is generated by plot.py at 2019-02-19 22:45:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 109.670 ms

Loss rate: 0.00%

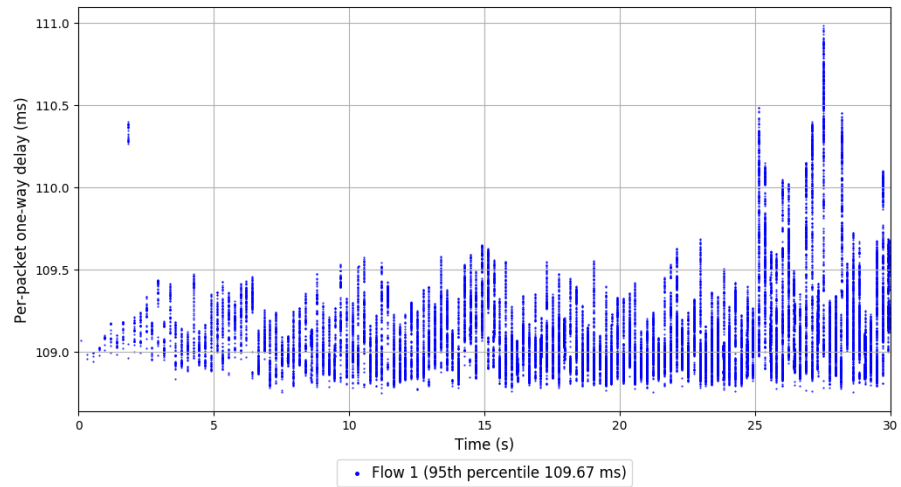
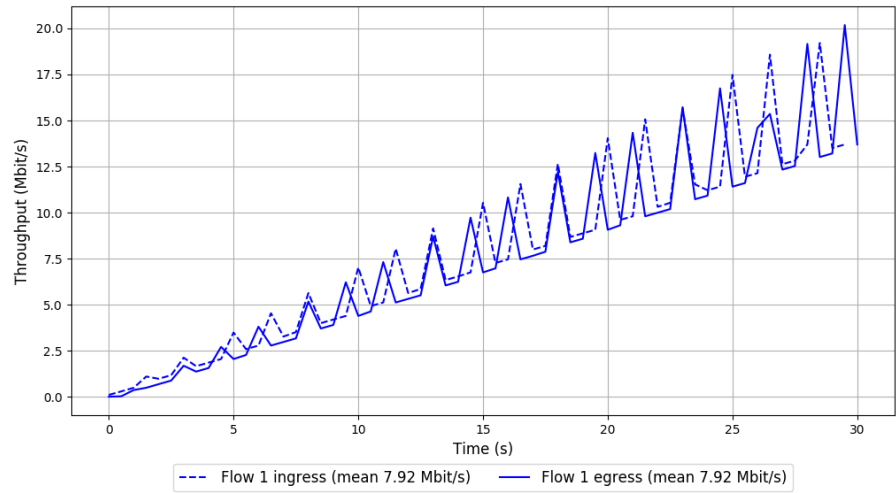
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 109.670 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

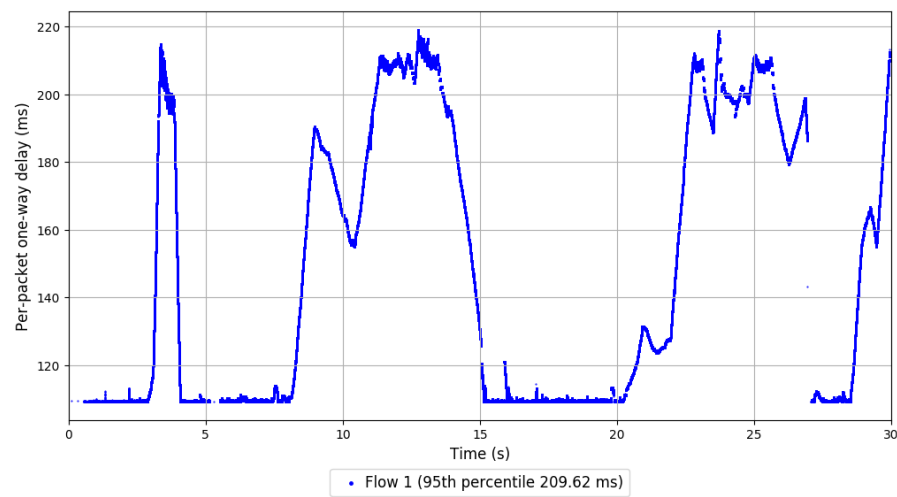
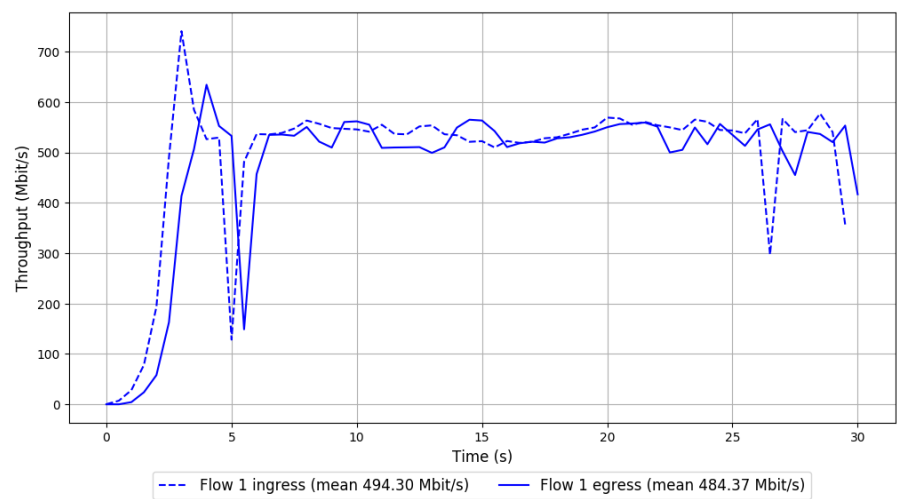


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-02-19 19:01:21
End at: 2019-02-19 19:01:51
Local clock offset: 20.908 ms
Remote clock offset: 22.01 ms

# Below is generated by plot.py at 2019-02-19 22:51:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 484.37 Mbit/s
95th percentile per-packet one-way delay: 209.625 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 484.37 Mbit/s
95th percentile per-packet one-way delay: 209.625 ms
Loss rate: 2.01%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-02-19 19:33:59

End at: 2019-02-19 19:34:29

Local clock offset: 32.31 ms

Remote clock offset: 33.583 ms

Below is generated by plot.py at 2019-02-19 22:51:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 471.39 Mbit/s

95th percentile per-packet one-way delay: 212.757 ms

Loss rate: 1.45%

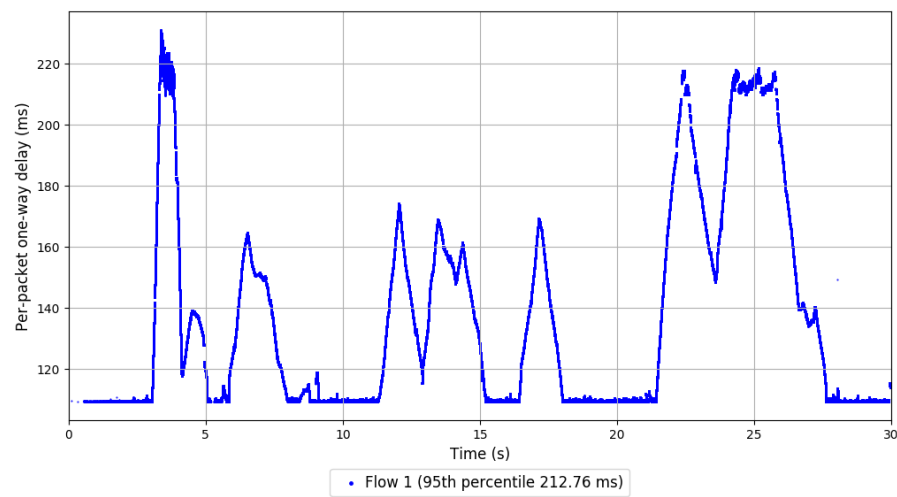
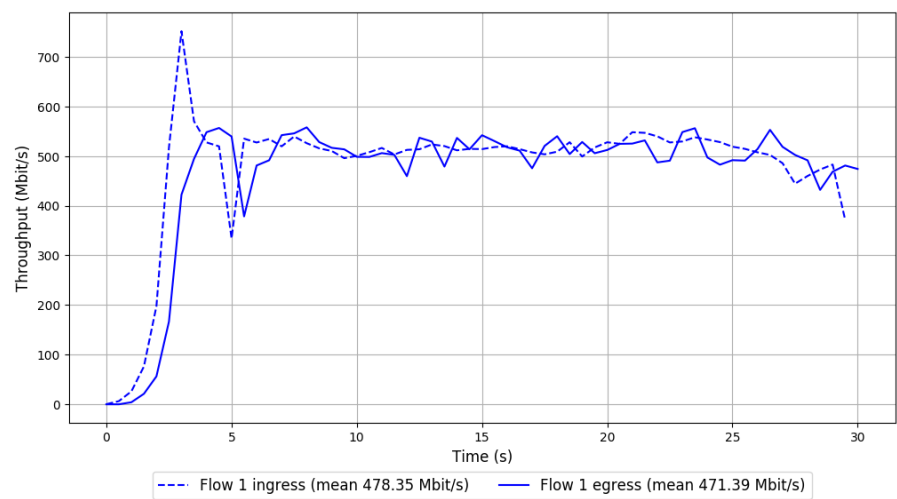
-- Flow 1:

Average throughput: 471.39 Mbit/s

95th percentile per-packet one-way delay: 212.757 ms

Loss rate: 1.45%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-02-19 20:06:05

End at: 2019-02-19 20:06:35

Local clock offset: 15.875 ms

Remote clock offset: 16.53 ms

Below is generated by plot.py at 2019-02-19 22:51:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.32 Mbit/s

95th percentile per-packet one-way delay: 197.275 ms

Loss rate: 1.22%

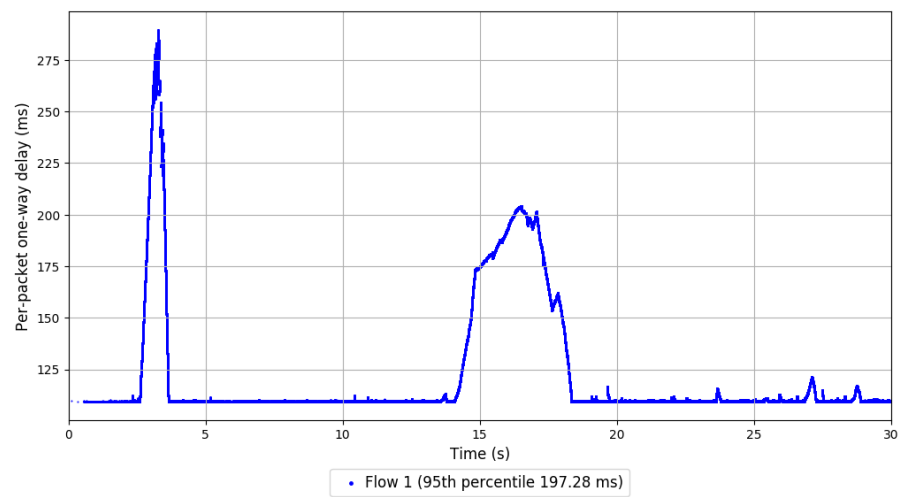
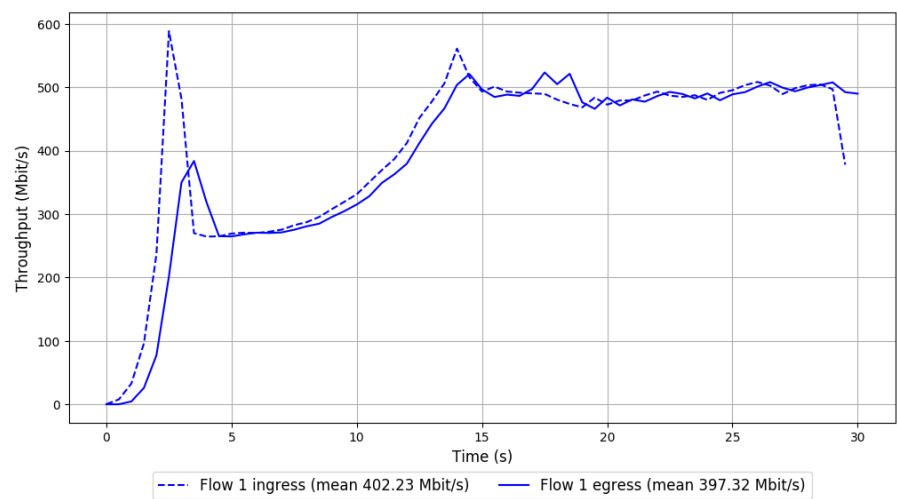
-- Flow 1:

Average throughput: 397.32 Mbit/s

95th percentile per-packet one-way delay: 197.275 ms

Loss rate: 1.22%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-02-19 20:38:31

End at: 2019-02-19 20:39:01

Local clock offset: 3.523 ms

Remote clock offset: 7.488 ms

Below is generated by plot.py at 2019-02-19 22:57:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.67 Mbit/s

95th percentile per-packet one-way delay: 239.099 ms

Loss rate: 2.83%

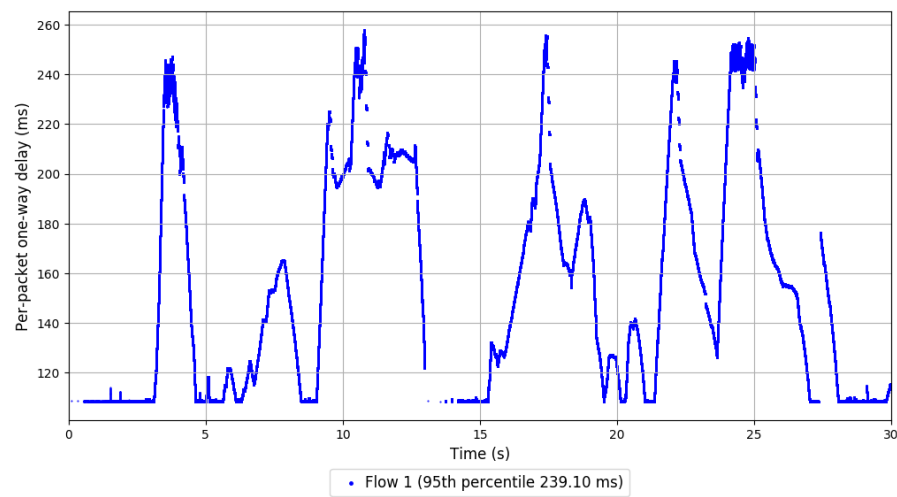
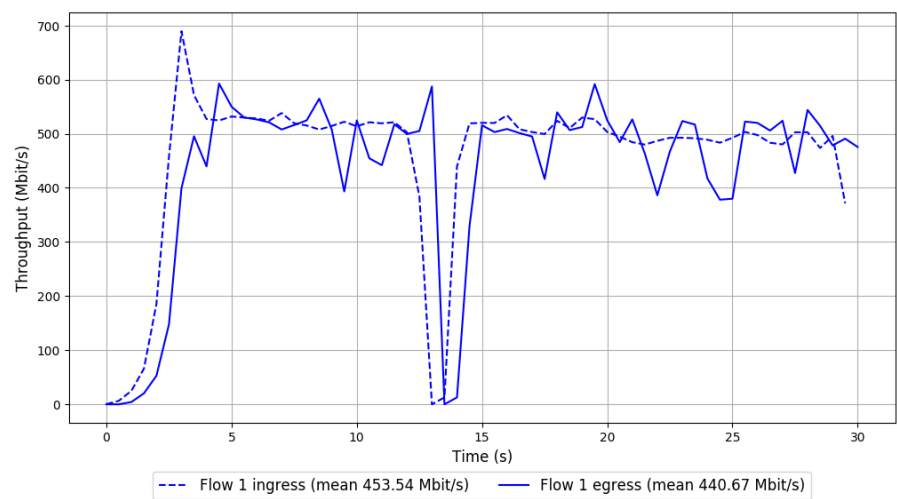
-- Flow 1:

Average throughput: 440.67 Mbit/s

95th percentile per-packet one-way delay: 239.099 ms

Loss rate: 2.83%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-02-19 21:10:38

End at: 2019-02-19 21:11:08

Local clock offset: 1.328 ms

Remote clock offset: 1.889 ms

Below is generated by plot.py at 2019-02-19 23:00:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.63 Mbit/s

95th percentile per-packet one-way delay: 230.264 ms

Loss rate: 4.66%

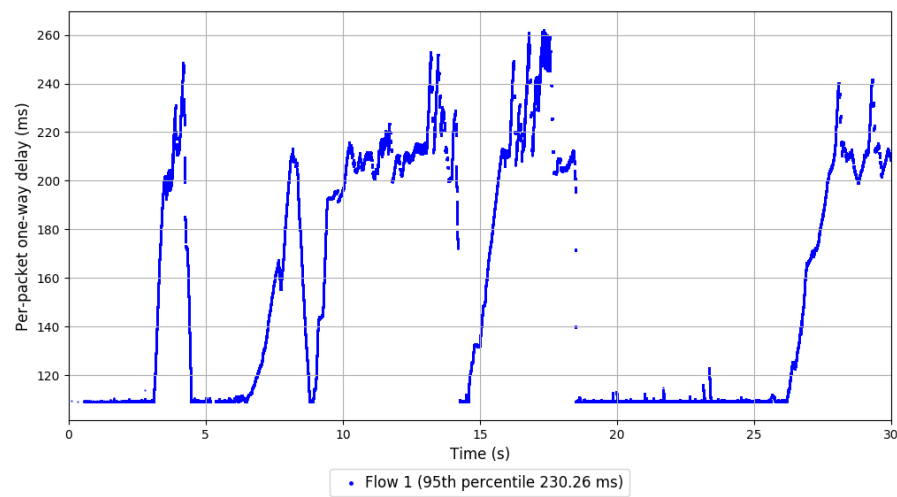
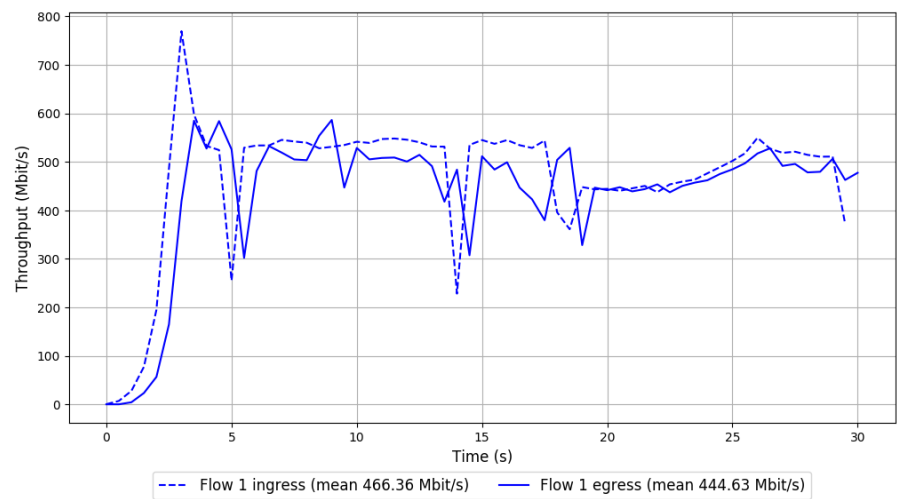
-- Flow 1:

Average throughput: 444.63 Mbit/s

95th percentile per-packet one-way delay: 230.264 ms

Loss rate: 4.66%

Run 5: Report of PCC-Allegro — Data Link

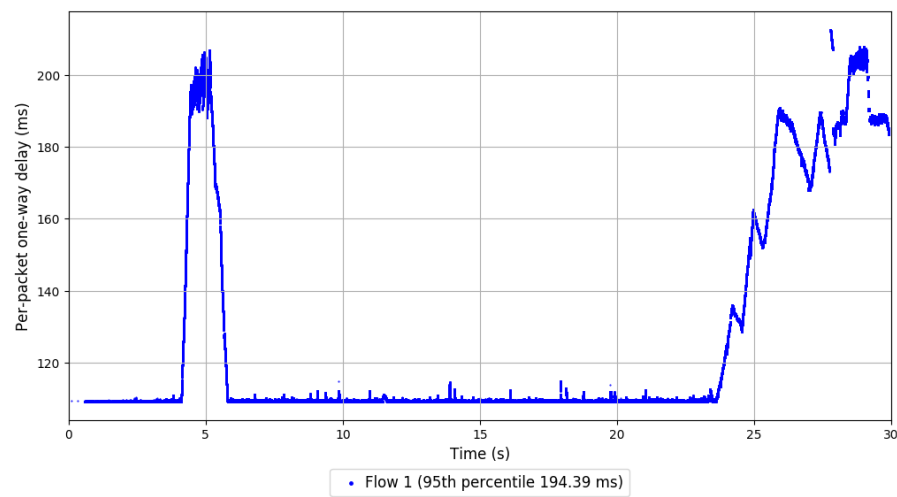
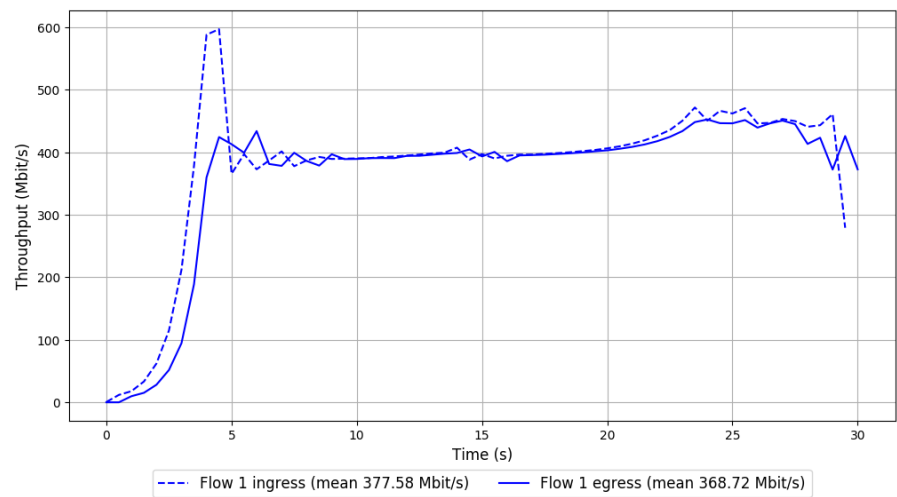



```
Run 1: Statistics of PCC-Expr

Start at: 2019-02-19 18:49:59
End at: 2019-02-19 18:50:29
Local clock offset: 12.123 ms
Remote clock offset: 12.309 ms

# Below is generated by plot.py at 2019-02-19 23:00:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 368.72 Mbit/s
95th percentile per-packet one-way delay: 194.389 ms
Loss rate: 2.34%
-- Flow 1:
Average throughput: 368.72 Mbit/s
95th percentile per-packet one-way delay: 194.389 ms
Loss rate: 2.34%
```

Run 1: Report of PCC-Expr — Data Link

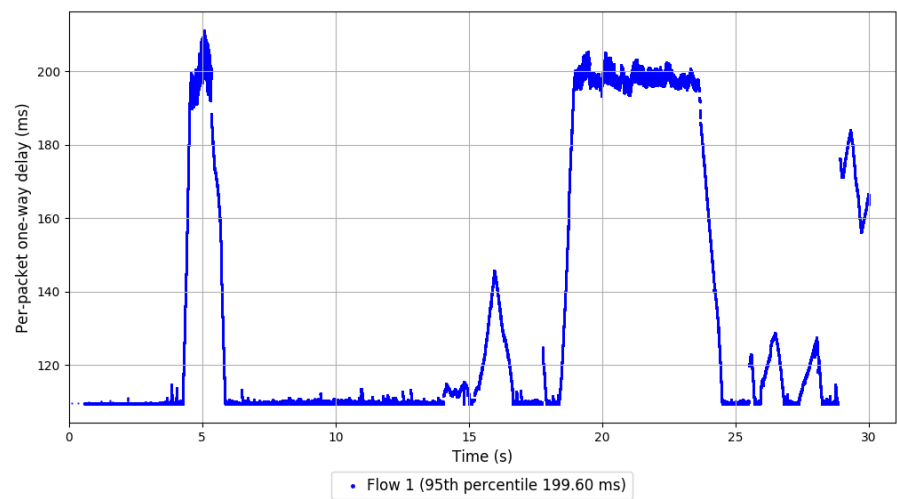
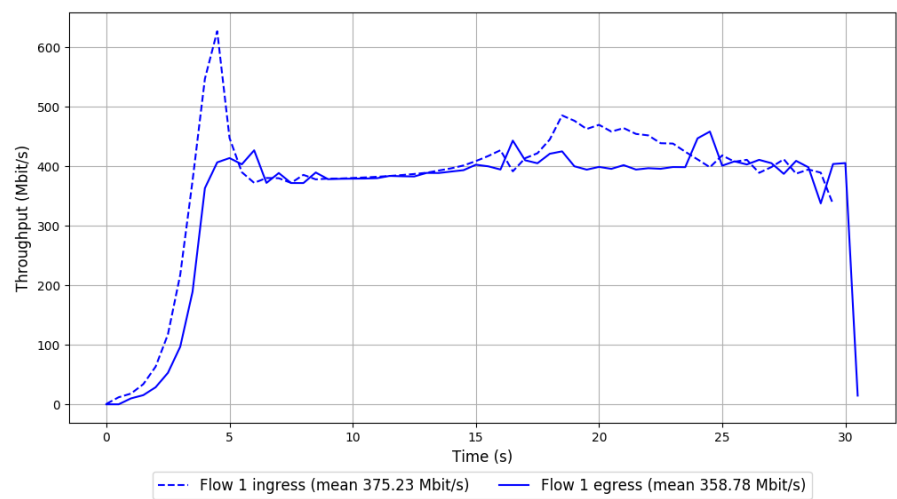


Run 2: Statistics of PCC-Expr

Start at: 2019-02-19 19:22:32
End at: 2019-02-19 19:23:02
Local clock offset: 22.136 ms
Remote clock offset: 23.246 ms

Below is generated by plot.py at 2019-02-19 23:00:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 358.78 Mbit/s
95th percentile per-packet one-way delay: 199.601 ms
Loss rate: 4.39%
-- Flow 1:
Average throughput: 358.78 Mbit/s
95th percentile per-packet one-way delay: 199.601 ms
Loss rate: 4.39%

Run 2: Report of PCC-Expr — Data Link

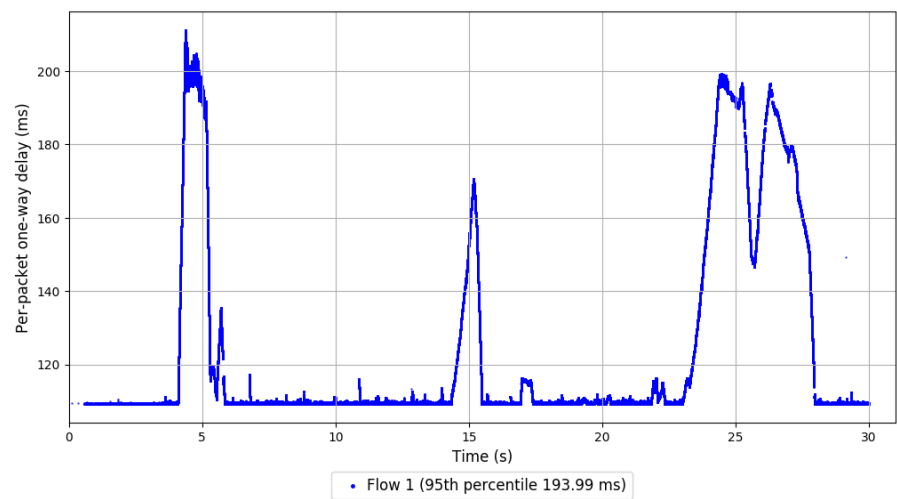
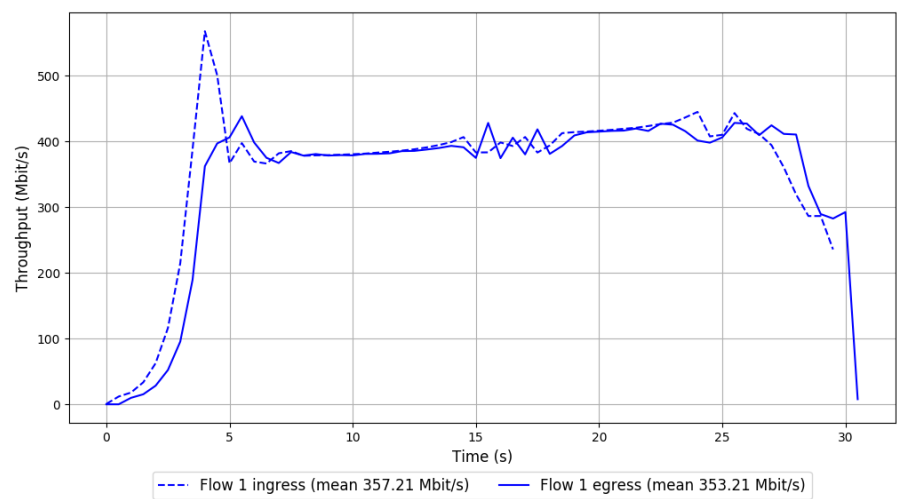


Run 3: Statistics of PCC-Expr

Start at: 2019-02-19 19:54:43
End at: 2019-02-19 19:55:13
Local clock offset: 13.701 ms
Remote clock offset: 14.174 ms

Below is generated by plot.py at 2019-02-19 23:00:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 353.21 Mbit/s
95th percentile per-packet one-way delay: 193.989 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 353.21 Mbit/s
95th percentile per-packet one-way delay: 193.989 ms
Loss rate: 1.12%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-02-19 20:26:59

End at: 2019-02-19 20:27:29

Local clock offset: 4.94 ms

Remote clock offset: 6.945 ms

Below is generated by plot.py at 2019-02-19 23:02:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 287.71 Mbit/s

95th percentile per-packet one-way delay: 198.654 ms

Loss rate: 1.77%

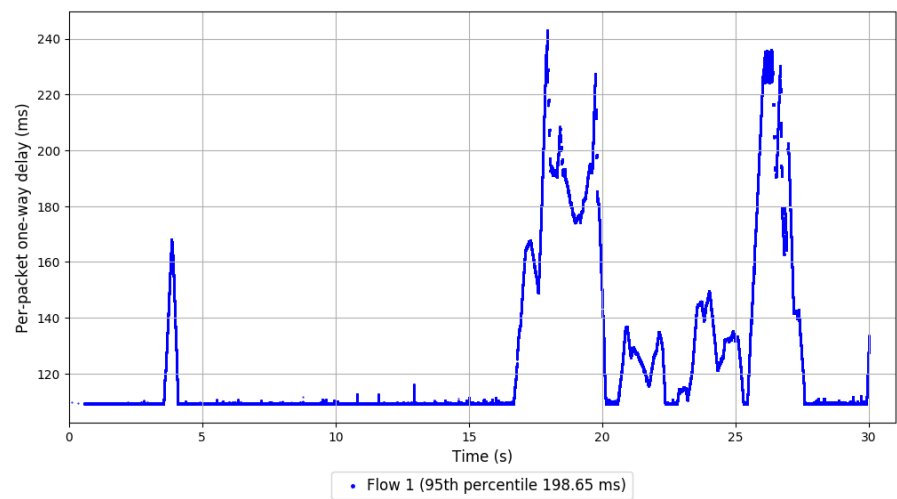
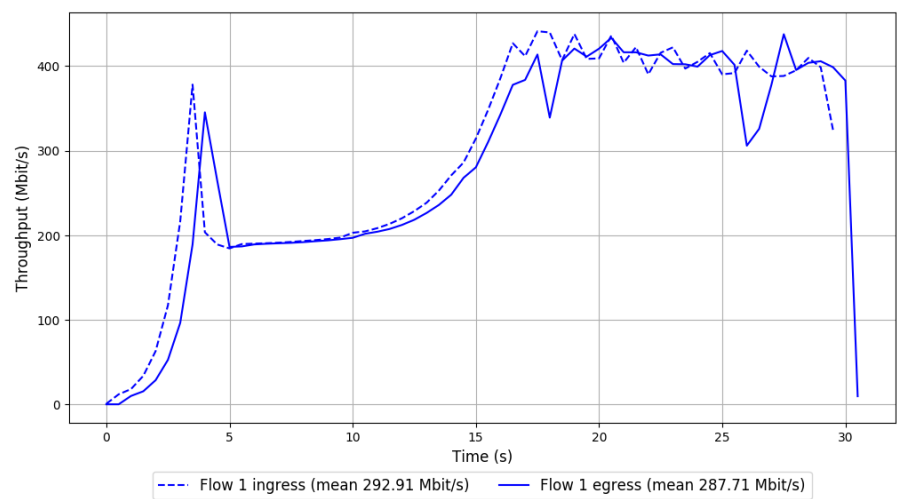
-- Flow 1:

Average throughput: 287.71 Mbit/s

95th percentile per-packet one-way delay: 198.654 ms

Loss rate: 1.77%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-02-19 20:59:17

End at: 2019-02-19 20:59:47

Local clock offset: 1.631 ms

Remote clock offset: 2.653 ms

Below is generated by plot.py at 2019-02-19 23:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.06 Mbit/s

95th percentile per-packet one-way delay: 196.898 ms

Loss rate: 1.15%

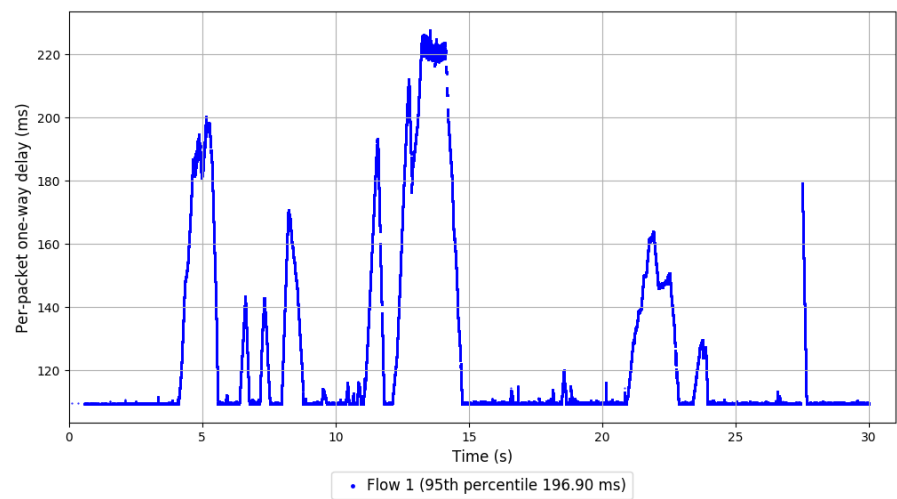
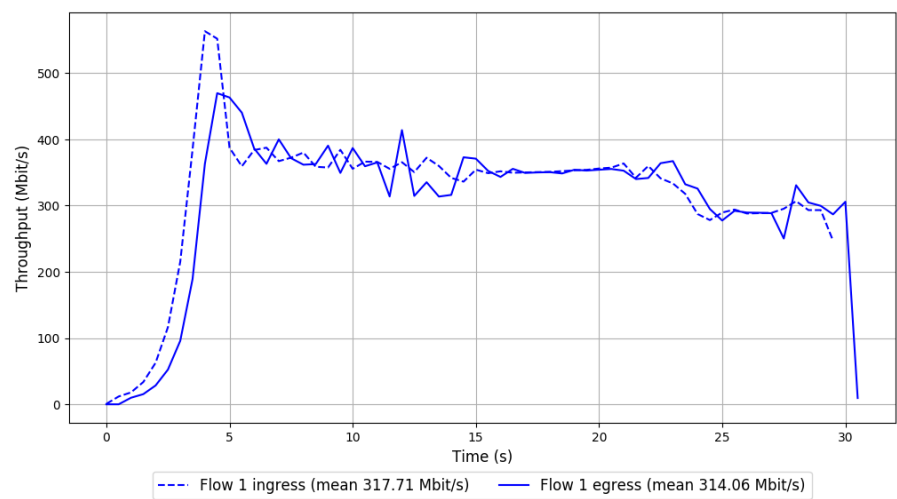
-- Flow 1:

Average throughput: 314.06 Mbit/s

95th percentile per-packet one-way delay: 196.898 ms

Loss rate: 1.15%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-02-19 18:41:25

End at: 2019-02-19 18:41:55

Local clock offset: 8.424 ms

Remote clock offset: 8.886 ms

Below is generated by plot.py at 2019-02-19 23:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.98 Mbit/s

95th percentile per-packet one-way delay: 109.578 ms

Loss rate: 0.00%

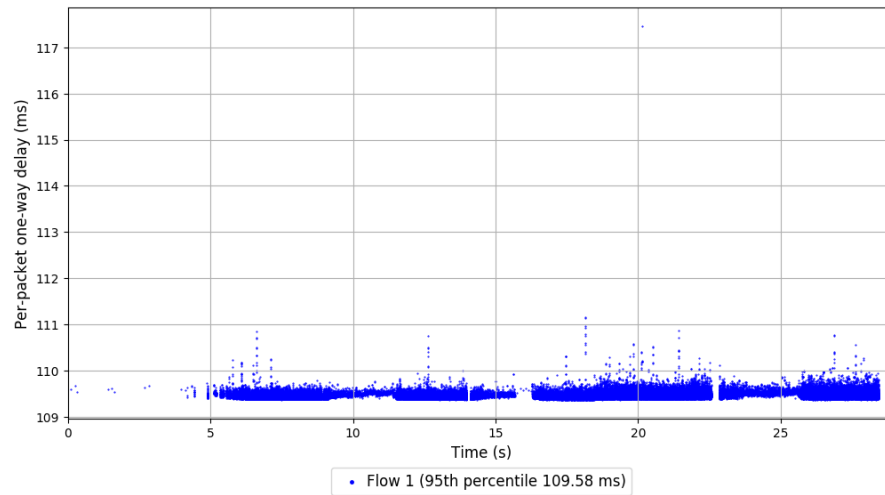
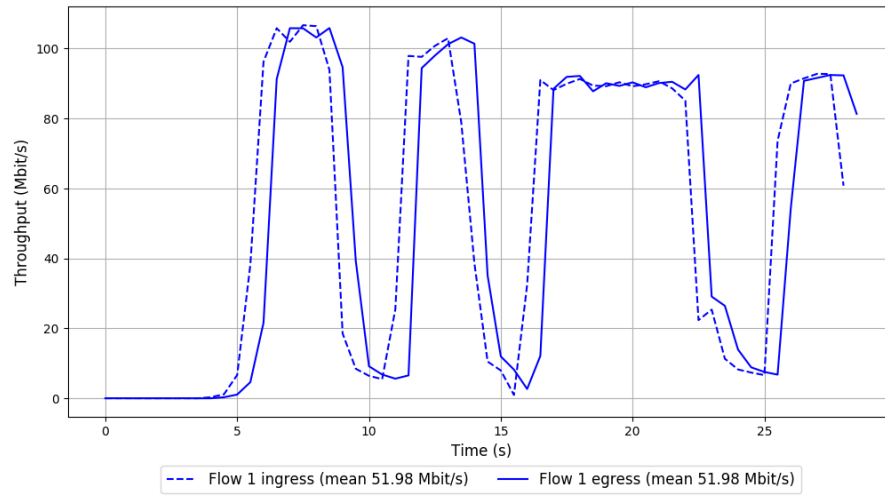
-- Flow 1:

Average throughput: 51.98 Mbit/s

95th percentile per-packet one-way delay: 109.578 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link

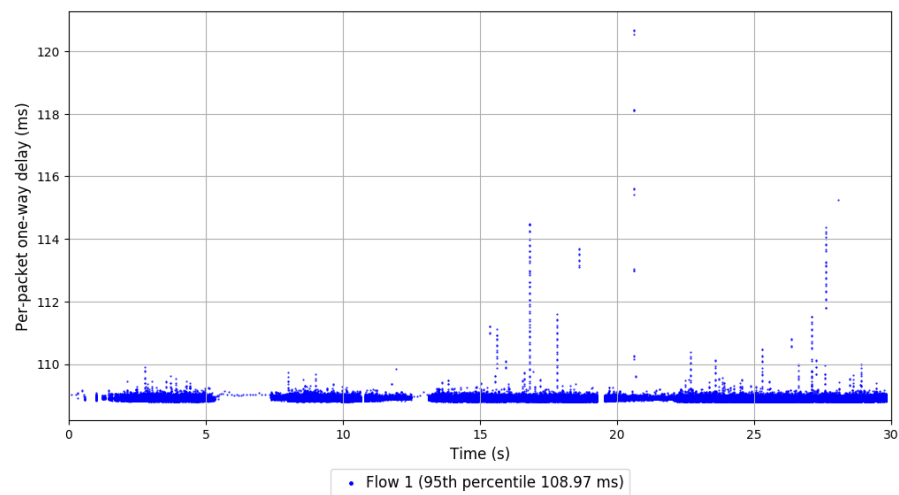
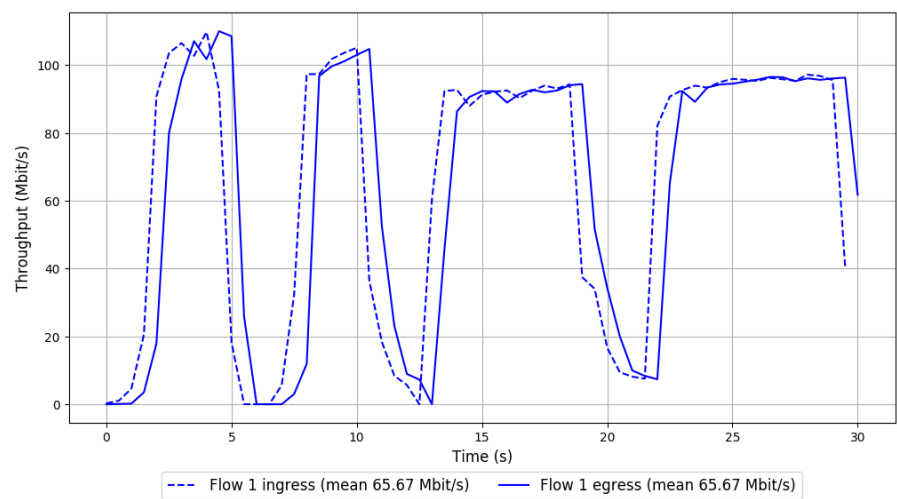


Run 2: Statistics of QUIC Cubic

Start at: 2019-02-19 19:13:56
End at: 2019-02-19 19:14:26
Local clock offset: 17.758 ms
Remote clock offset: 18.156 ms

Below is generated by plot.py at 2019-02-19 23:02:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.67 Mbit/s
95th percentile per-packet one-way delay: 108.965 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.67 Mbit/s
95th percentile per-packet one-way delay: 108.965 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

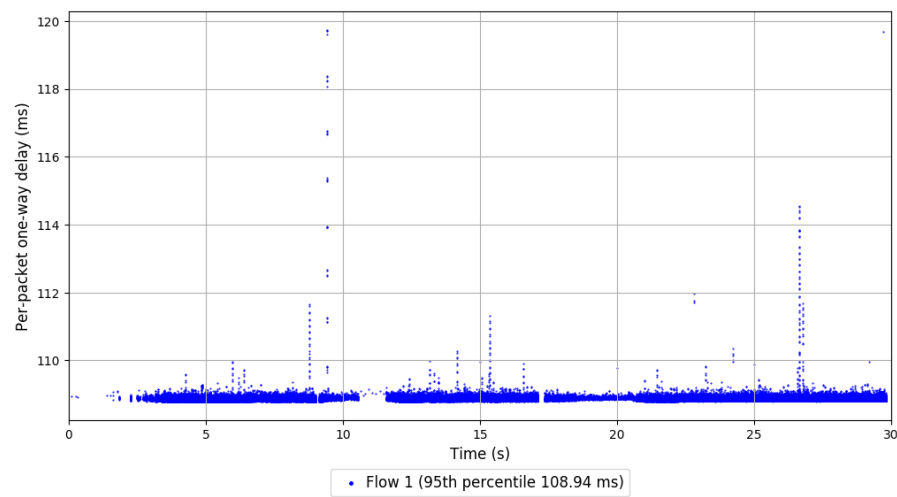
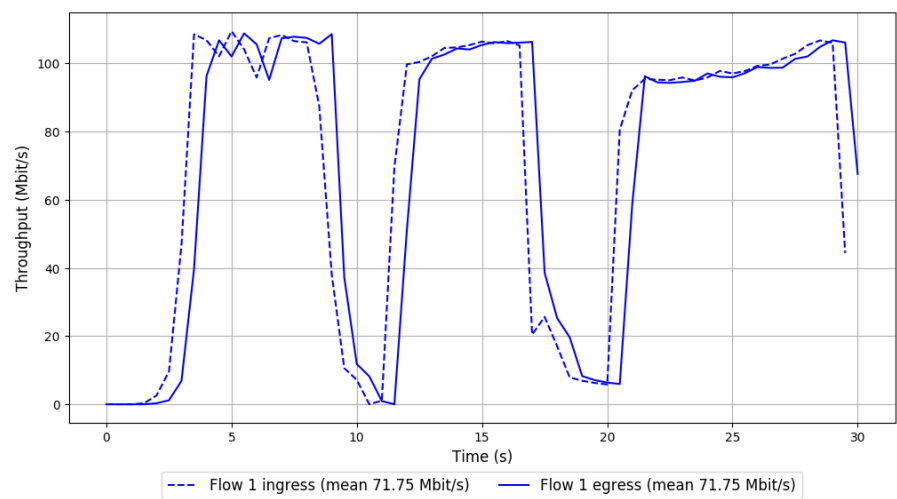


Run 3: Statistics of QUIC Cubic

Start at: 2019-02-19 19:46:06
End at: 2019-02-19 19:46:36
Local clock offset: 17.969 ms
Remote clock offset: 18.295 ms

Below is generated by plot.py at 2019-02-19 23:02:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.75 Mbit/s
95th percentile per-packet one-way delay: 108.942 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 71.75 Mbit/s
95th percentile per-packet one-way delay: 108.942 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-02-19 20:18:22

End at: 2019-02-19 20:18:52

Local clock offset: 9.318 ms

Remote clock offset: 10.318 ms

Below is generated by plot.py at 2019-02-19 23:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.29 Mbit/s

95th percentile per-packet one-way delay: 109.259 ms

Loss rate: 0.00%

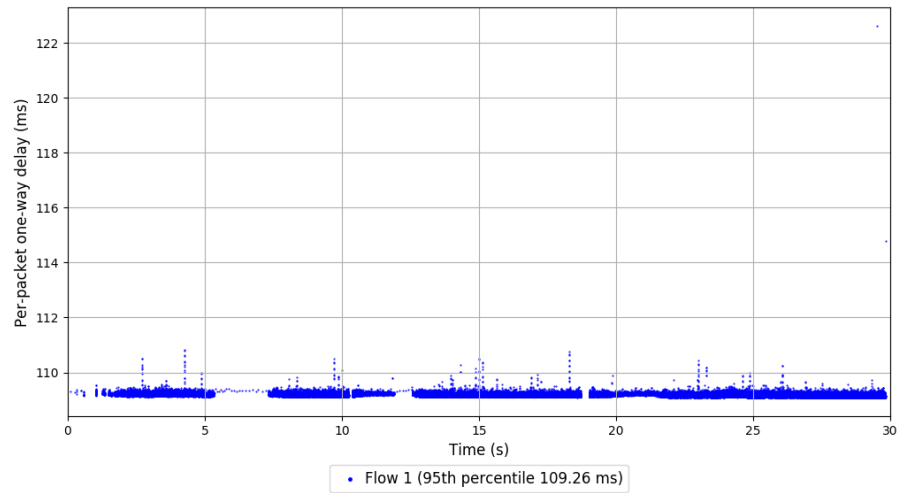
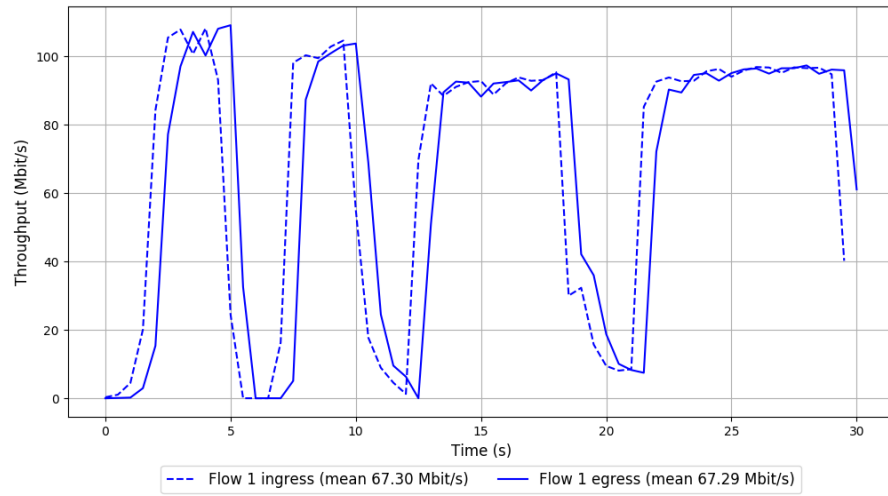
-- Flow 1:

Average throughput: 67.29 Mbit/s

95th percentile per-packet one-way delay: 109.259 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-02-19 20:50:44

End at: 2019-02-19 20:51:14

Local clock offset: 2.746 ms

Remote clock offset: 5.188 ms

Below is generated by plot.py at 2019-02-19 23:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.87 Mbit/s

95th percentile per-packet one-way delay: 109.304 ms

Loss rate: 0.00%

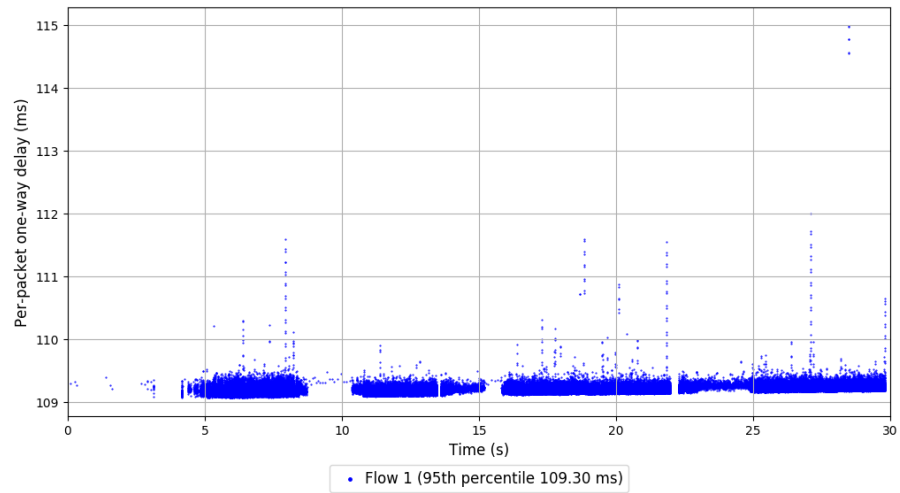
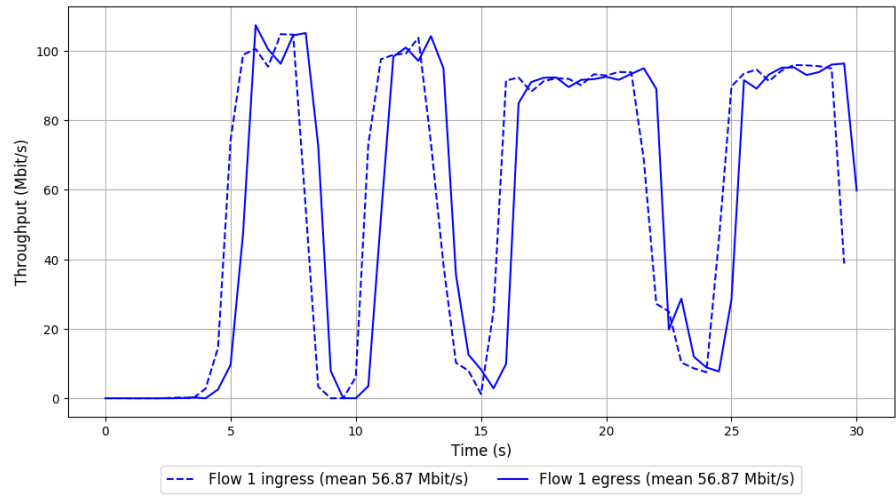
-- Flow 1:

Average throughput: 56.87 Mbit/s

95th percentile per-packet one-way delay: 109.304 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

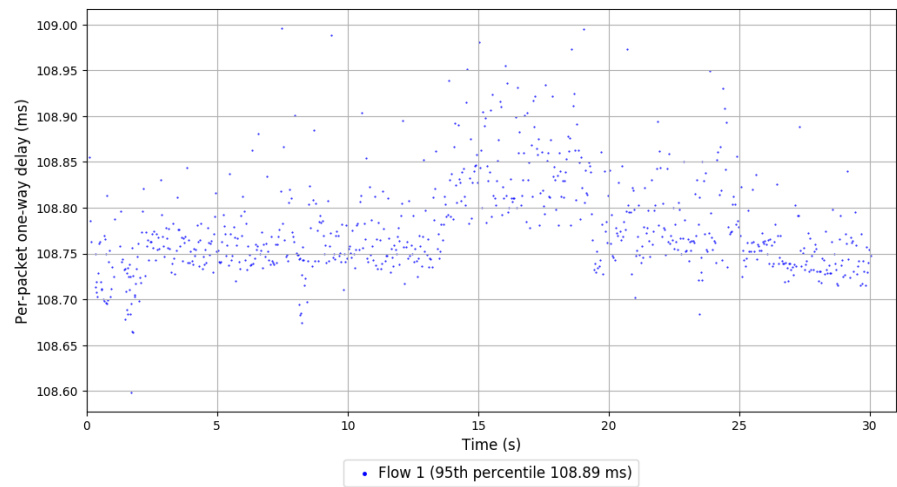
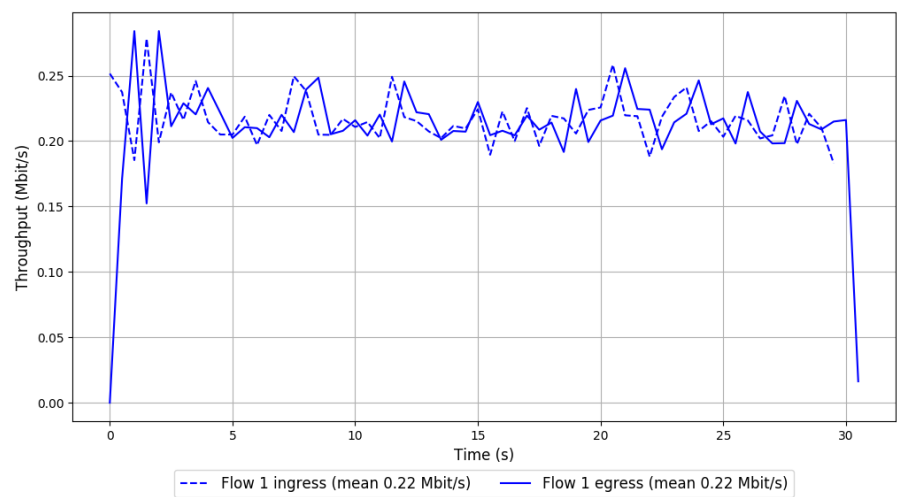


Run 1: Statistics of SCReAM

Start at: 2019-02-19 18:47:13
End at: 2019-02-19 18:47:43
Local clock offset: 15.005 ms
Remote clock offset: 14.861 ms

Below is generated by plot.py at 2019-02-19 23:02:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.889 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.889 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

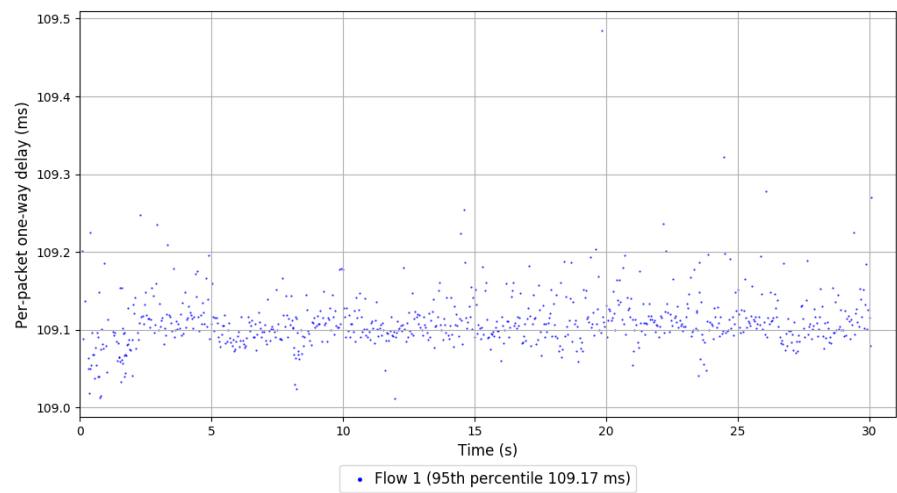
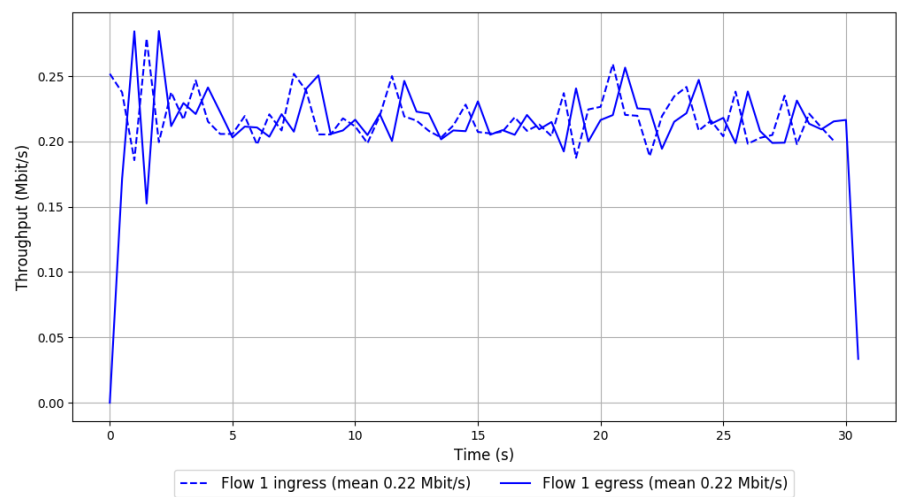


Run 2: Statistics of SCReAM

Start at: 2019-02-19 19:19:45
End at: 2019-02-19 19:20:15
Local clock offset: 20.344 ms
Remote clock offset: 20.864 ms

Below is generated by plot.py at 2019-02-19 23:02:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.175 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.175 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

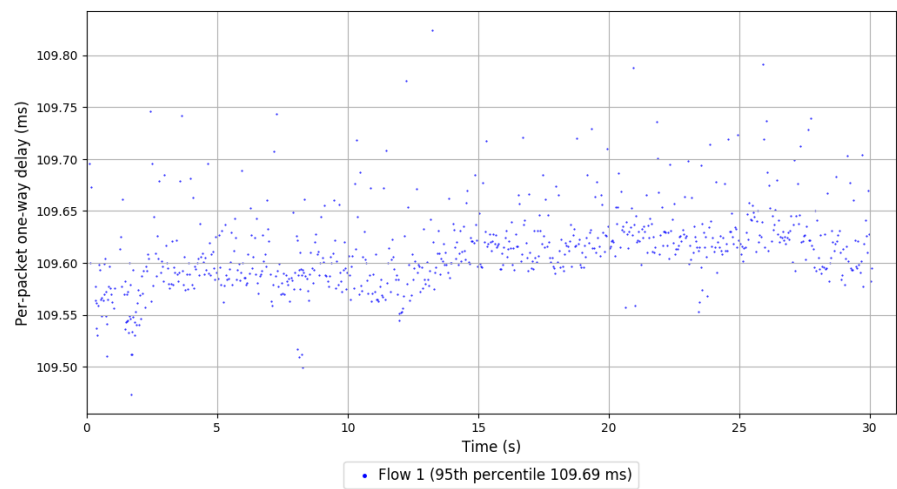
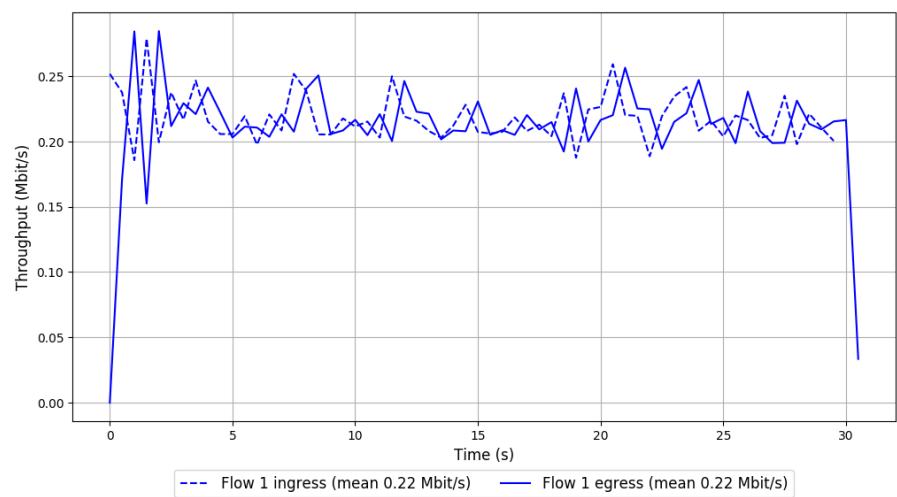


Run 3: Statistics of SCReAM

Start at: 2019-02-19 19:51:53
End at: 2019-02-19 19:52:23
Local clock offset: 13.783 ms
Remote clock offset: 14.602 ms

Below is generated by plot.py at 2019-02-19 23:02:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.685 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.685 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-02-19 20:24:11

End at: 2019-02-19 20:24:41

Local clock offset: 5.686 ms

Remote clock offset: 7.421 ms

Below is generated by plot.py at 2019-02-19 23:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.593 ms

Loss rate: 0.00%

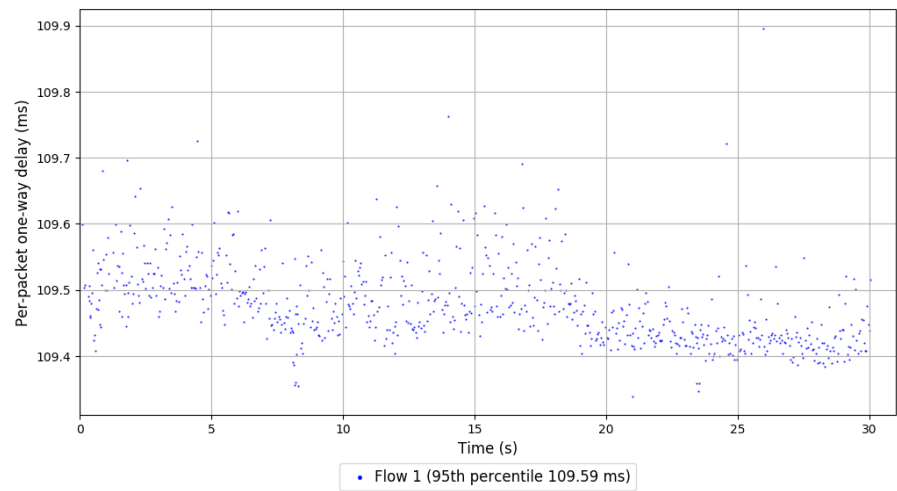
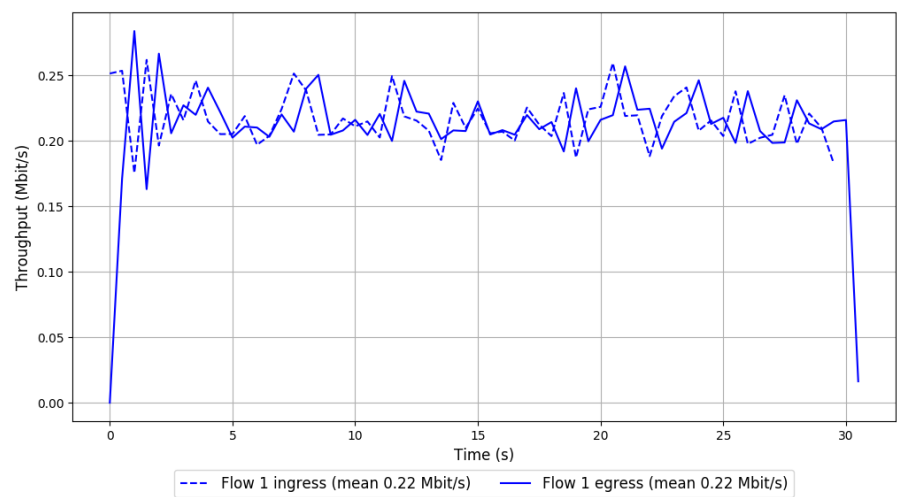
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.593 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-02-19 20:56:29

End at: 2019-02-19 20:56:59

Local clock offset: 1.757 ms

Remote clock offset: 2.762 ms

Below is generated by plot.py at 2019-02-19 23:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.863 ms

Loss rate: 0.00%

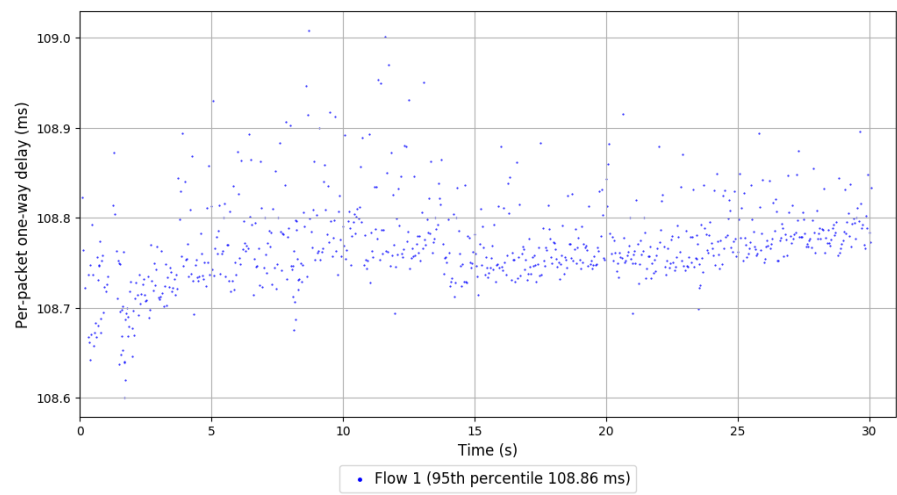
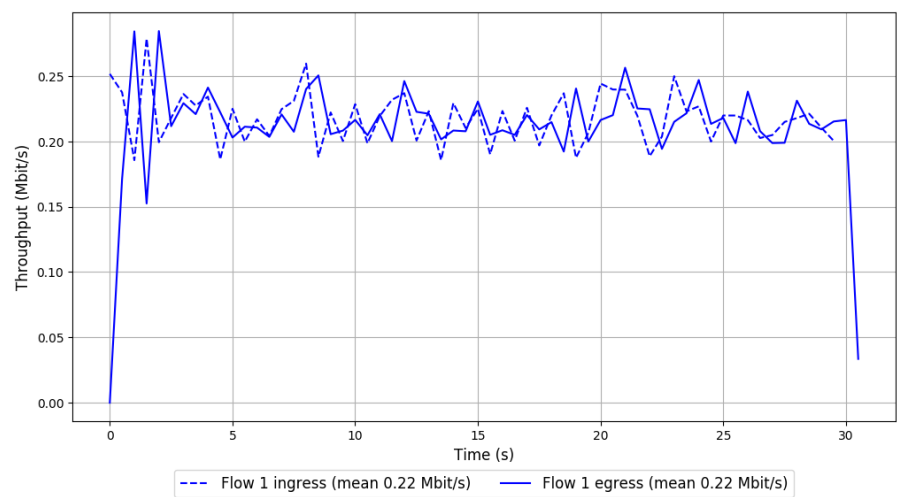
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.863 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-02-19 18:51:45

End at: 2019-02-19 18:52:15

Local clock offset: 11.998 ms

Remote clock offset: 12.43 ms

Below is generated by plot.py at 2019-02-19 23:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 109.685 ms

Loss rate: 0.00%

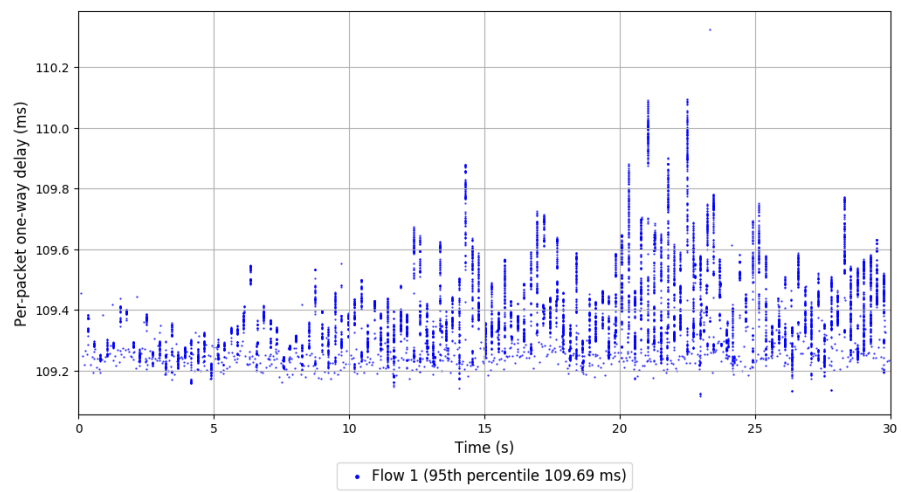
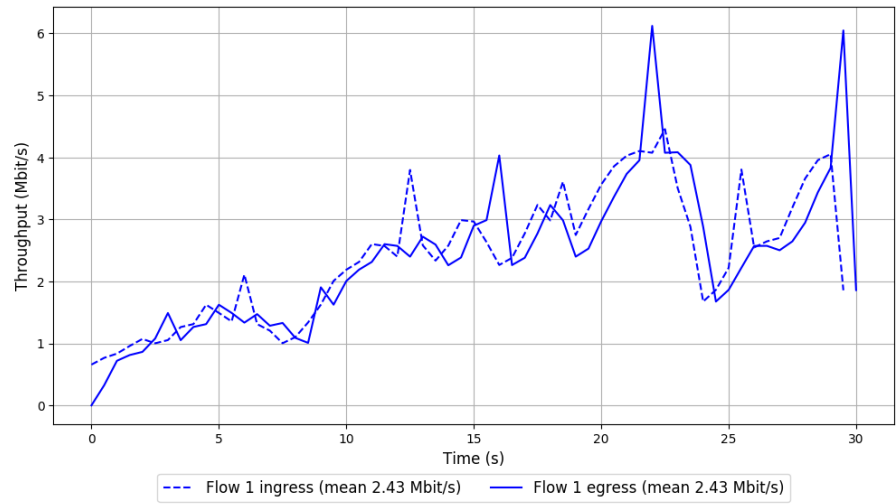
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 109.685 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

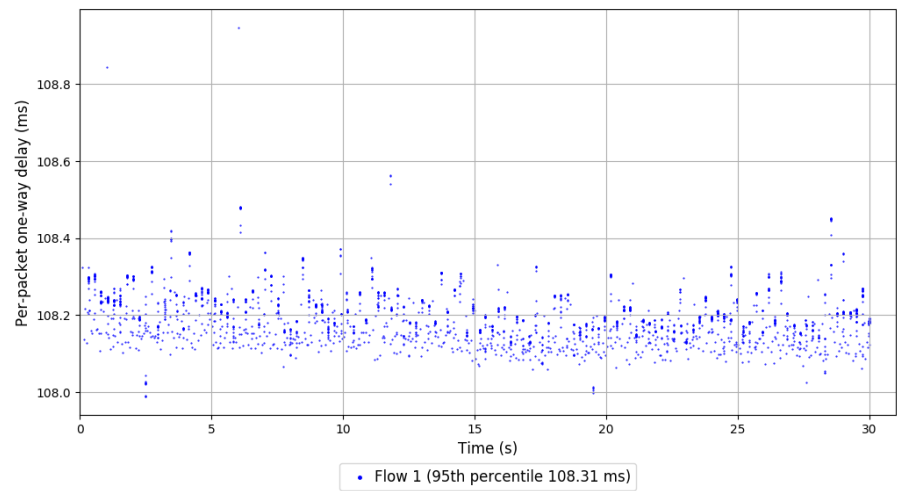
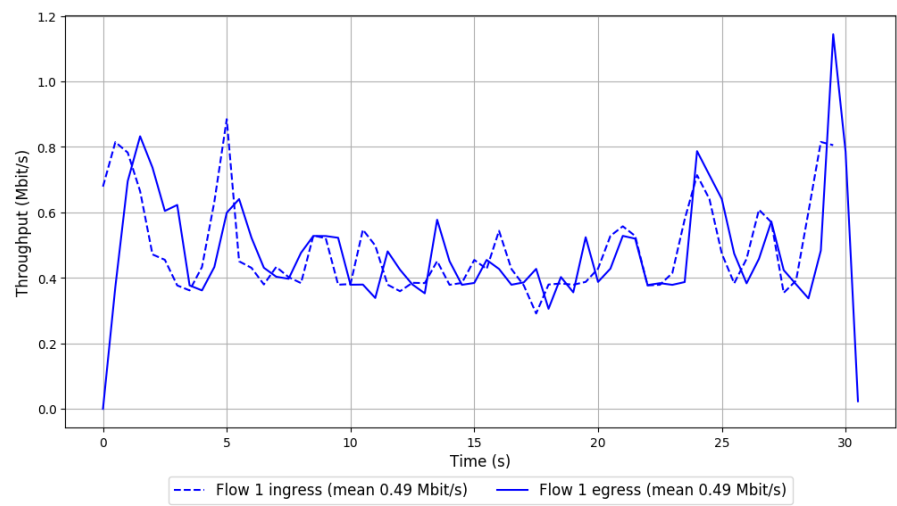


Run 2: Statistics of Sprout

Start at: 2019-02-19 19:24:19
End at: 2019-02-19 19:24:49
Local clock offset: 23.63 ms
Remote clock offset: 24.337 ms

Below is generated by plot.py at 2019-02-19 23:02:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 108.307 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 108.307 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

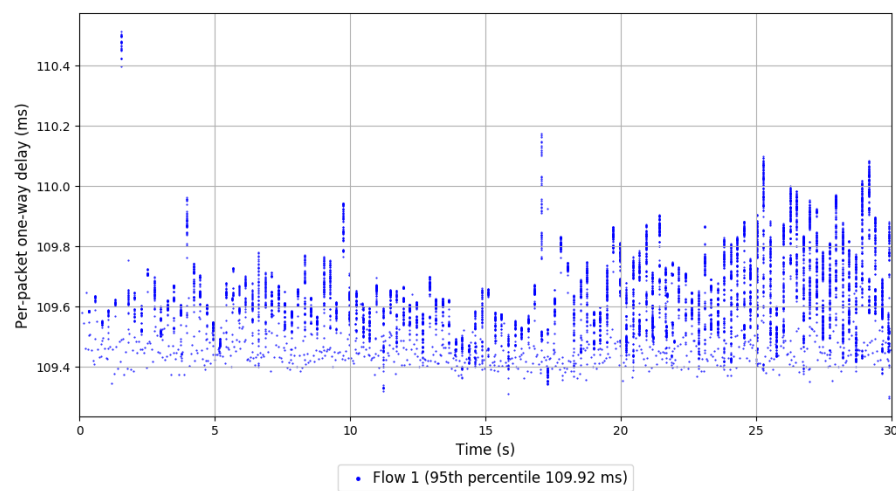
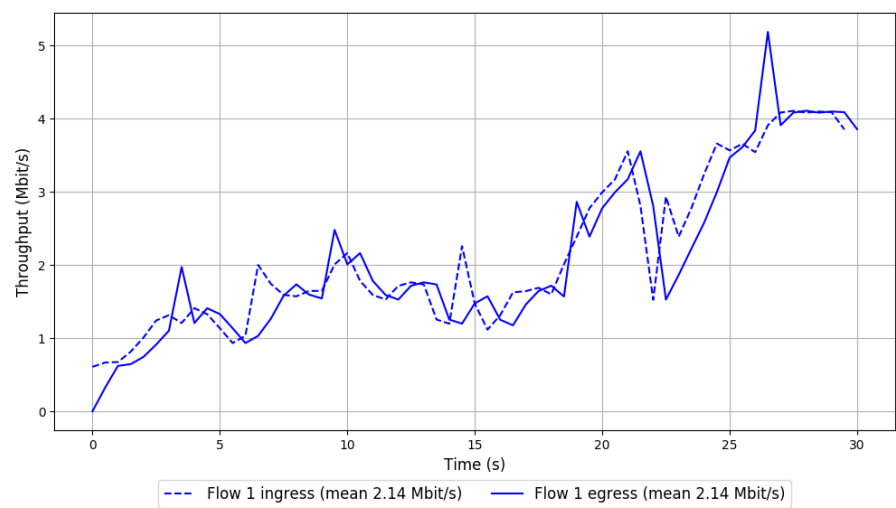


Run 3: Statistics of Sprout

Start at: 2019-02-19 19:56:28
End at: 2019-02-19 19:56:58
Local clock offset: 13.67 ms
Remote clock offset: 14.154 ms

Below is generated by plot.py at 2019-02-19 23:02:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 109.917 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 109.917 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-02-19 20:28:36

End at: 2019-02-19 20:29:06

Local clock offset: 4.39 ms

Remote clock offset: 6.738 ms

Below is generated by plot.py at 2019-02-19 23:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.83 Mbit/s

95th percentile per-packet one-way delay: 109.699 ms

Loss rate: 0.00%

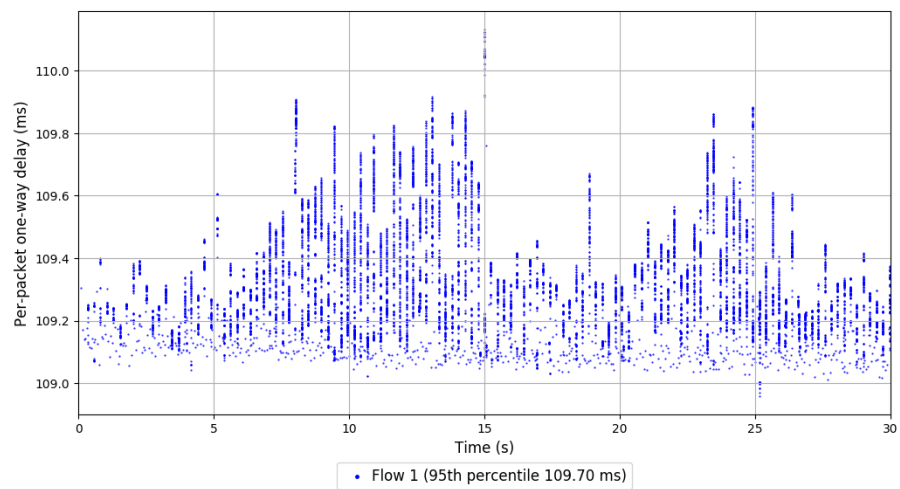
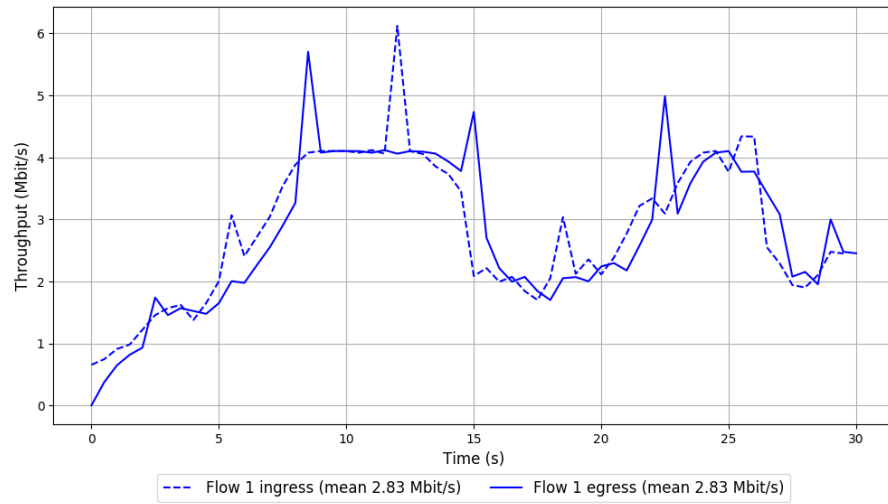
-- Flow 1:

Average throughput: 2.83 Mbit/s

95th percentile per-packet one-way delay: 109.699 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-02-19 21:00:57

End at: 2019-02-19 21:01:27

Local clock offset: 1.053 ms

Remote clock offset: 2.325 ms

Below is generated by plot.py at 2019-02-19 23:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 109.934 ms

Loss rate: 0.00%

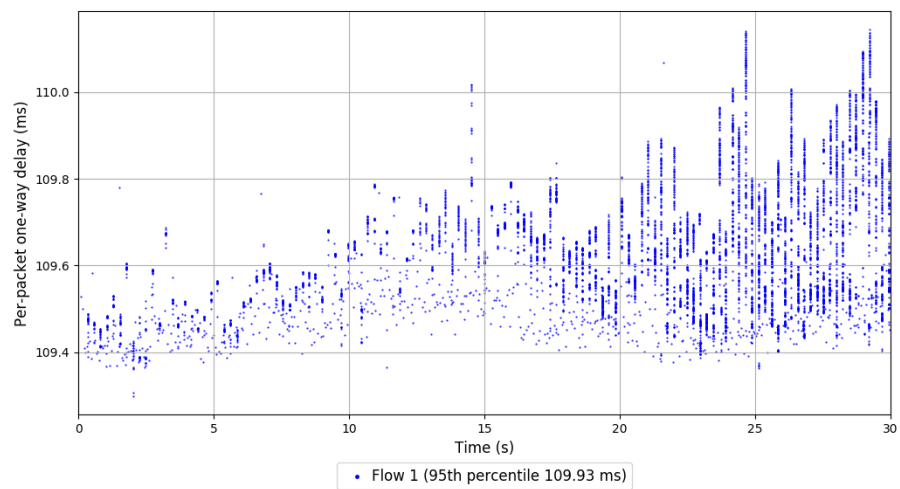
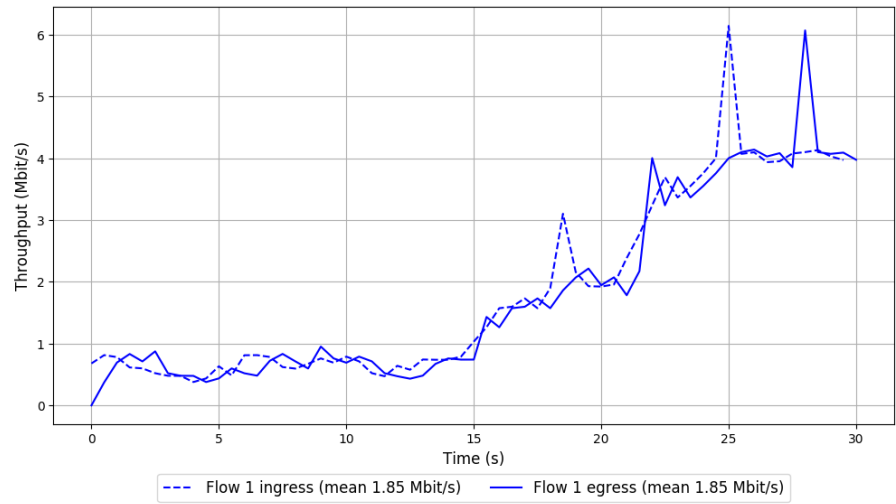
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 109.934 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

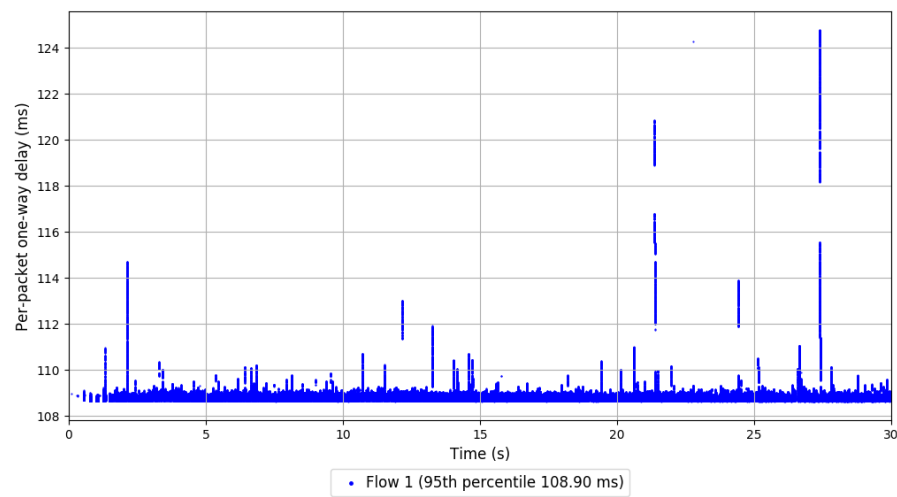
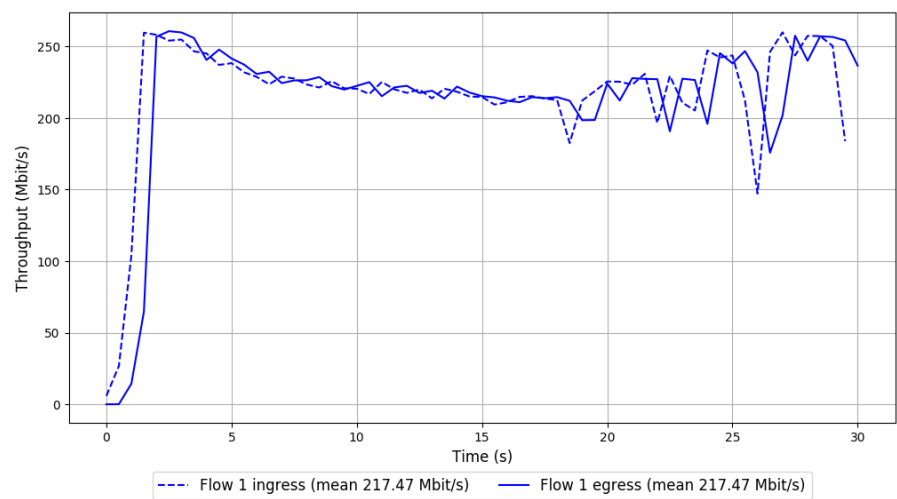



```
Run 1: Statistics of TaoVA-100x

Start at: 2019-02-19 18:38:29
End at: 2019-02-19 18:38:59
Local clock offset: 9.86 ms
Remote clock offset: 9.579 ms

# Below is generated by plot.py at 2019-02-19 23:06:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.47 Mbit/s
95th percentile per-packet one-way delay: 108.901 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.47 Mbit/s
95th percentile per-packet one-way delay: 108.901 ms
Loss rate: 0.00%
```

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

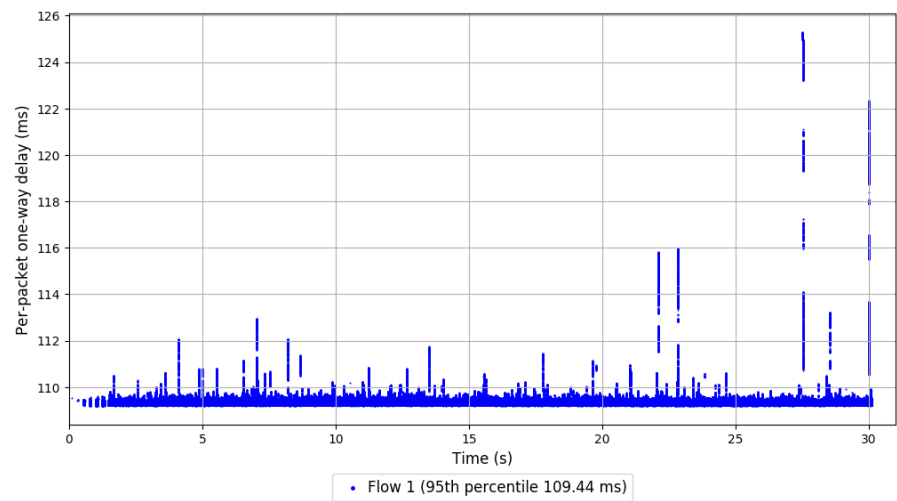
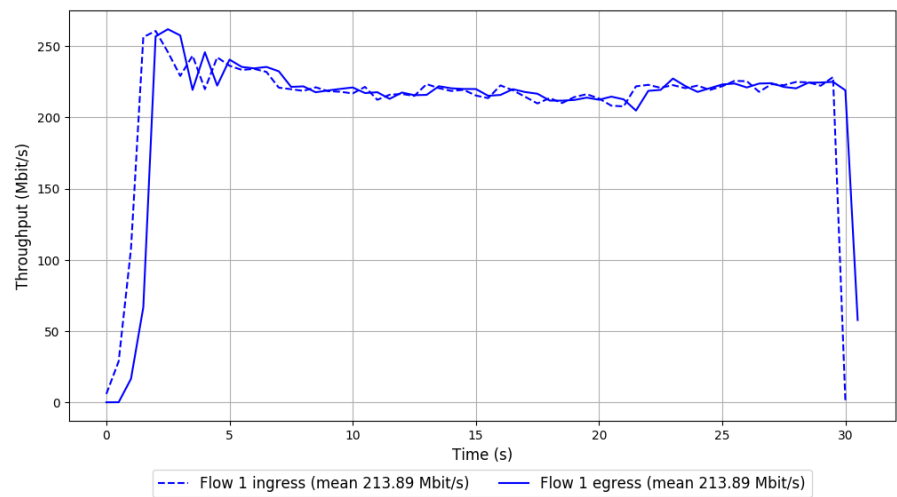


Run 2: Statistics of TaoVA-100x

Start at: 2019-02-19 19:10:52
End at: 2019-02-19 19:11:22
Local clock offset: 17.636 ms
Remote clock offset: 18.414 ms

Below is generated by plot.py at 2019-02-19 23:06:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 213.89 Mbit/s
95th percentile per-packet one-way delay: 109.444 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.89 Mbit/s
95th percentile per-packet one-way delay: 109.444 ms
Loss rate: 0.00%

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

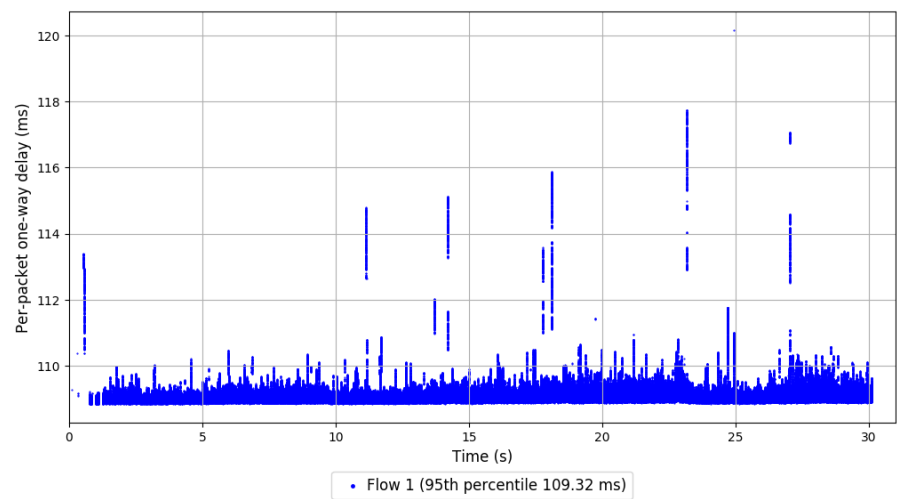
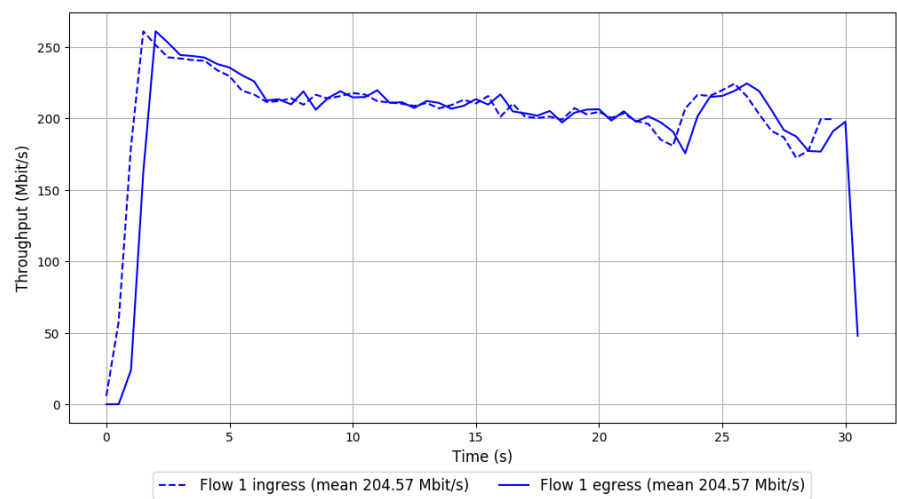


Run 3: Statistics of TaoVA-100x

Start at: 2019-02-19 19:43:10
End at: 2019-02-19 19:43:40
Local clock offset: 21.78 ms
Remote clock offset: 22.519 ms

Below is generated by plot.py at 2019-02-19 23:06:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.57 Mbit/s
95th percentile per-packet one-way delay: 109.322 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.57 Mbit/s
95th percentile per-packet one-way delay: 109.322 ms
Loss rate: 0.00%

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

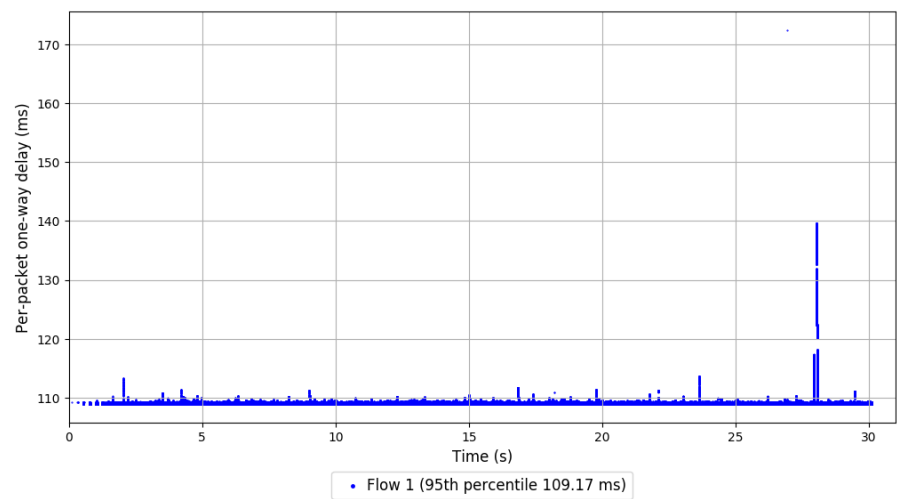
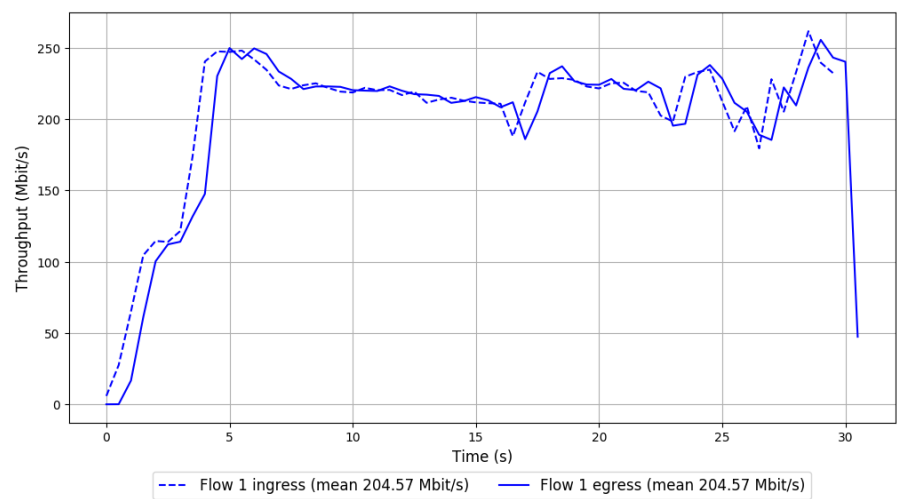


Run 4: Statistics of TaoVA-100x

Start at: 2019-02-19 20:15:19
End at: 2019-02-19 20:15:49
Local clock offset: 12.868 ms
Remote clock offset: 13.361 ms

Below is generated by plot.py at 2019-02-19 23:06:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.57 Mbit/s
95th percentile per-packet one-way delay: 109.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.57 Mbit/s
95th percentile per-packet one-way delay: 109.173 ms
Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-02-19 20:47:48

End at: 2019-02-19 20:48:18

Local clock offset: 3.278 ms

Remote clock offset: 7.541 ms

Below is generated by plot.py at 2019-02-19 23:06:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.66 Mbit/s

95th percentile per-packet one-way delay: 110.321 ms

Loss rate: 0.00%

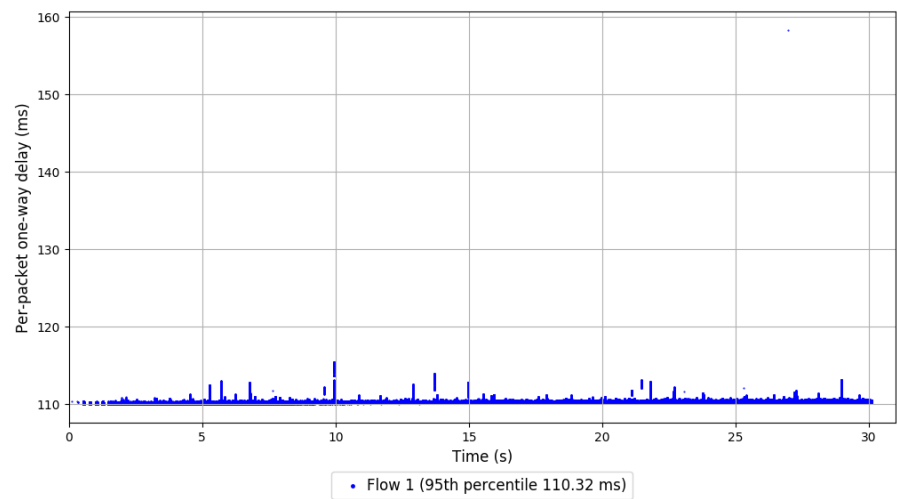
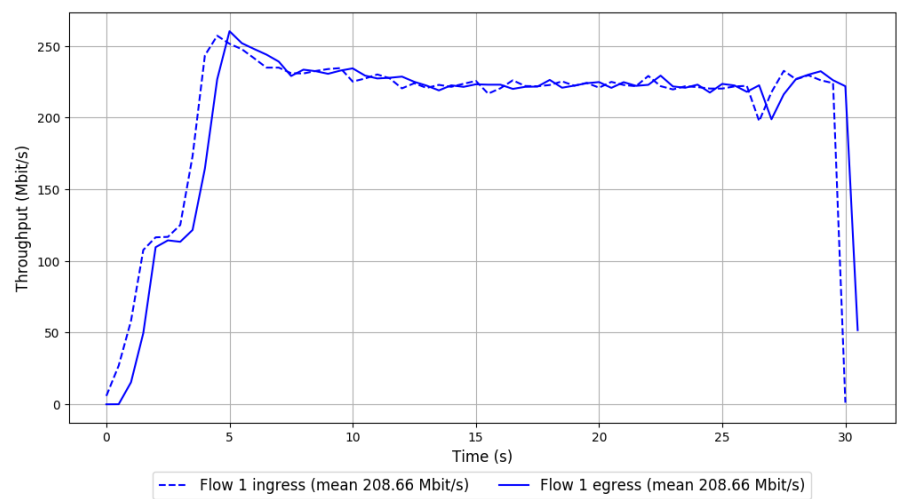
-- Flow 1:

Average throughput: 208.66 Mbit/s

95th percentile per-packet one-way delay: 110.321 ms

Loss rate: 0.00%

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

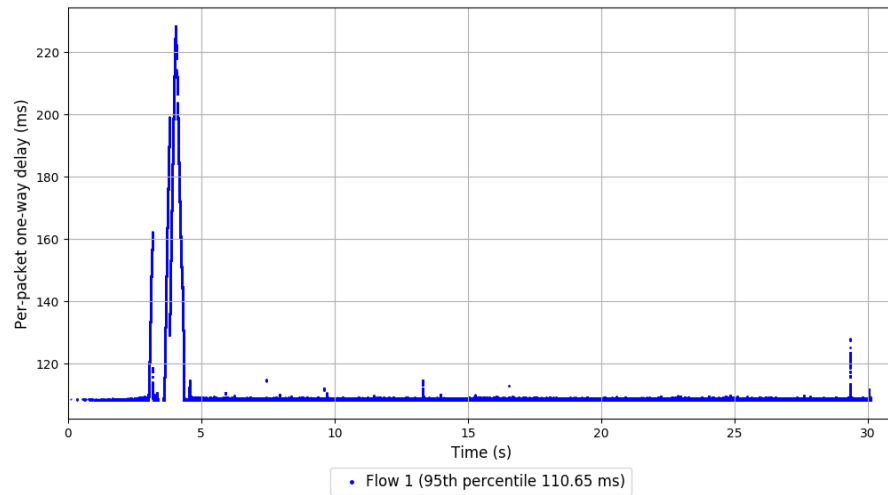
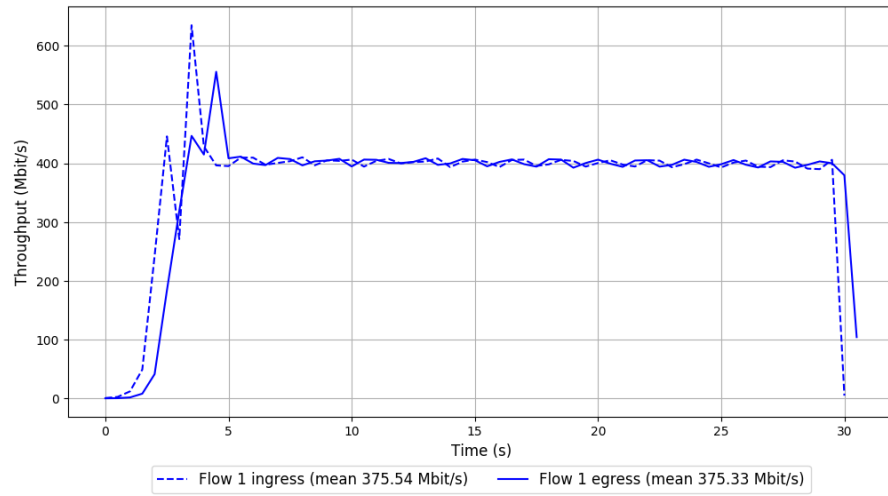


Run 1: Statistics of TCP Vegas

Start at: 2019-02-19 18:58:09
End at: 2019-02-19 18:58:39
Local clock offset: 17.019 ms
Remote clock offset: 17.641 ms

Below is generated by plot.py at 2019-02-19 23:07:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 375.33 Mbit/s
95th percentile per-packet one-way delay: 110.650 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 375.33 Mbit/s
95th percentile per-packet one-way delay: 110.650 ms
Loss rate: 0.06%

Run 1: Report of TCP Vegas — Data Link

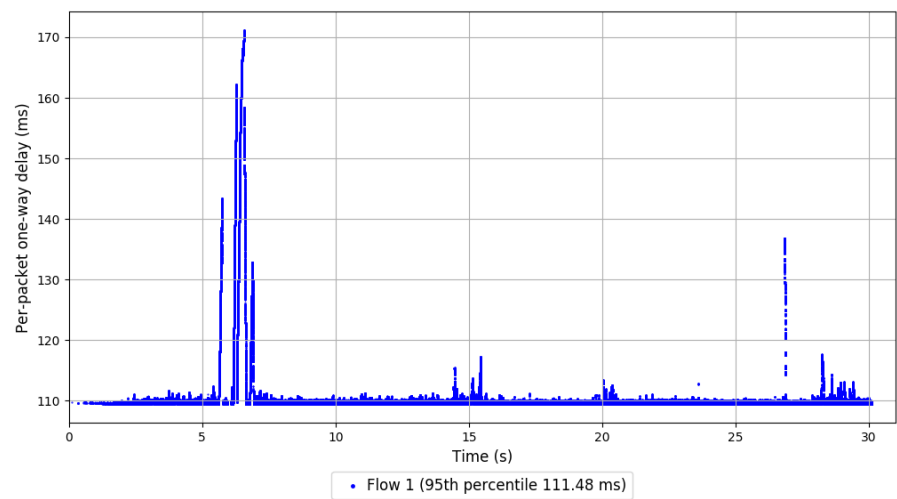
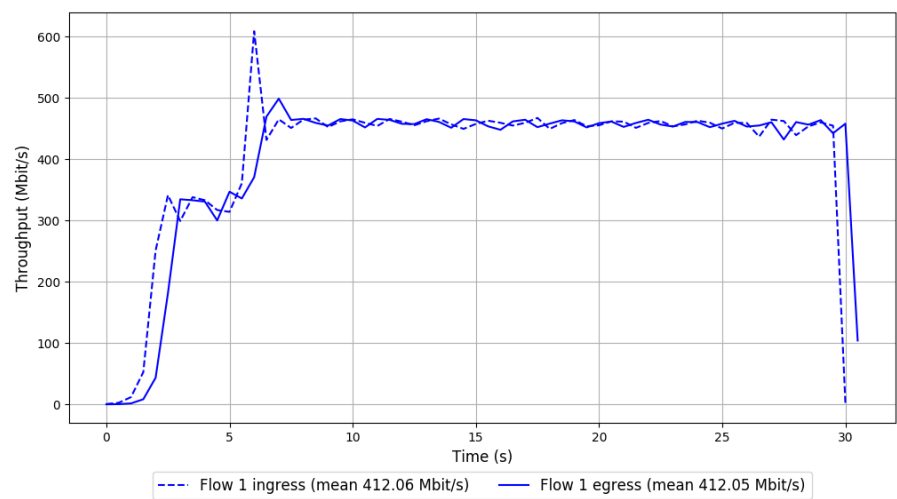


Run 2: Statistics of TCP Vegas

Start at: 2019-02-19 19:30:47
End at: 2019-02-19 19:31:17
Local clock offset: 29.054 ms
Remote clock offset: 30.545 ms

Below is generated by plot.py at 2019-02-19 23:10:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 412.05 Mbit/s
95th percentile per-packet one-way delay: 111.477 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 412.05 Mbit/s
95th percentile per-packet one-way delay: 111.477 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

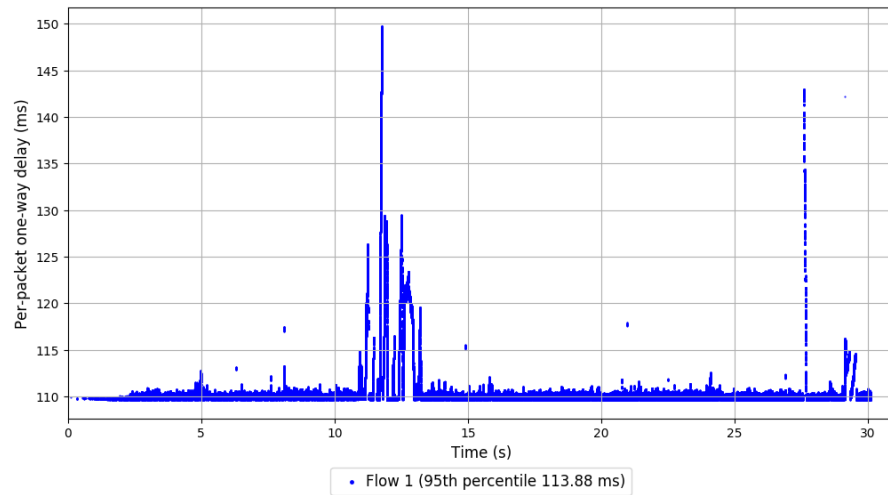
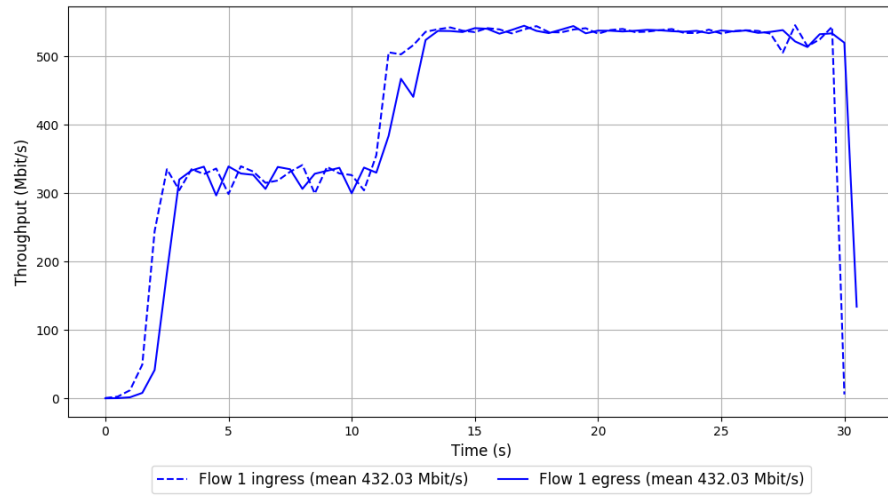


Run 3: Statistics of TCP Vegas

Start at: 2019-02-19 20:02:52
End at: 2019-02-19 20:03:22
Local clock offset: 14.792 ms
Remote clock offset: 15.77 ms

Below is generated by plot.py at 2019-02-19 23:12:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 432.03 Mbit/s
95th percentile per-packet one-way delay: 113.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 432.03 Mbit/s
95th percentile per-packet one-way delay: 113.881 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

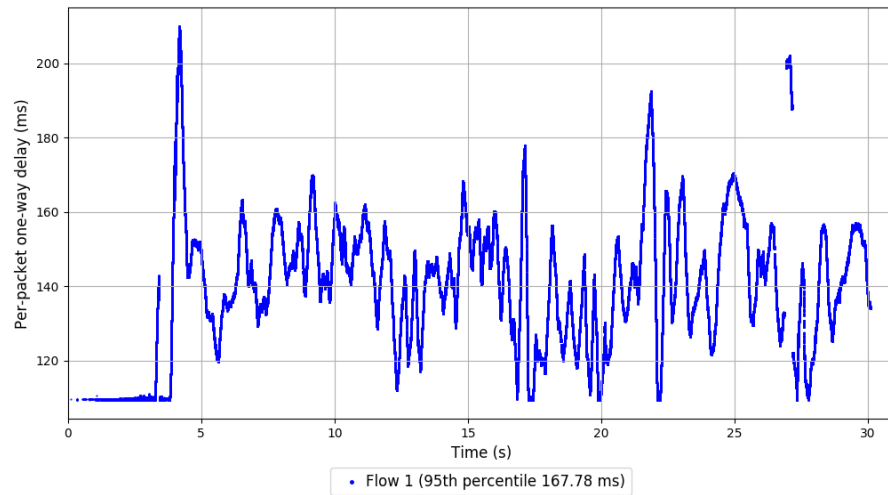
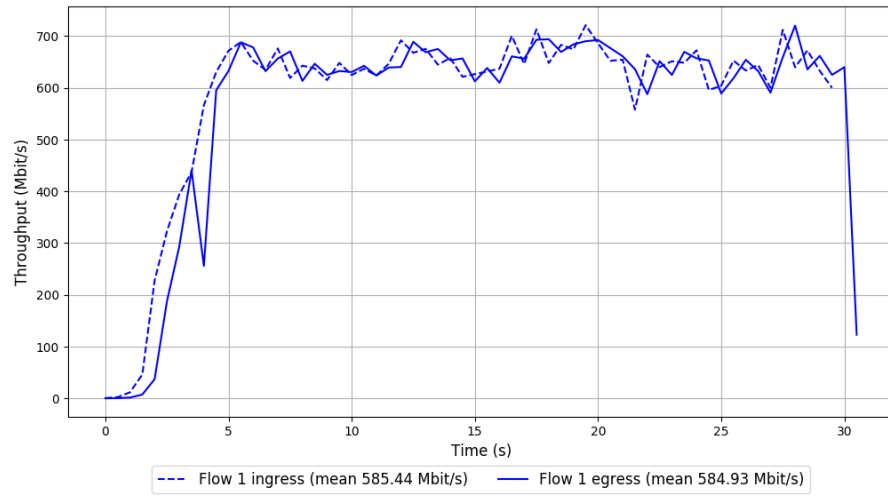


Run 4: Statistics of TCP Vegas

Start at: 2019-02-19 20:35:03
End at: 2019-02-19 20:35:33
Local clock offset: 3.688 ms
Remote clock offset: 6.963 ms

Below is generated by plot.py at 2019-02-19 23:16:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 584.93 Mbit/s
95th percentile per-packet one-way delay: 167.775 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 584.93 Mbit/s
95th percentile per-packet one-way delay: 167.775 ms
Loss rate: 0.08%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-02-19 21:07:28

End at: 2019-02-19 21:07:58

Local clock offset: 1.336 ms

Remote clock offset: 2.267 ms

Below is generated by plot.py at 2019-02-19 23:16:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 390.65 Mbit/s

95th percentile per-packet one-way delay: 109.793 ms

Loss rate: 0.16%

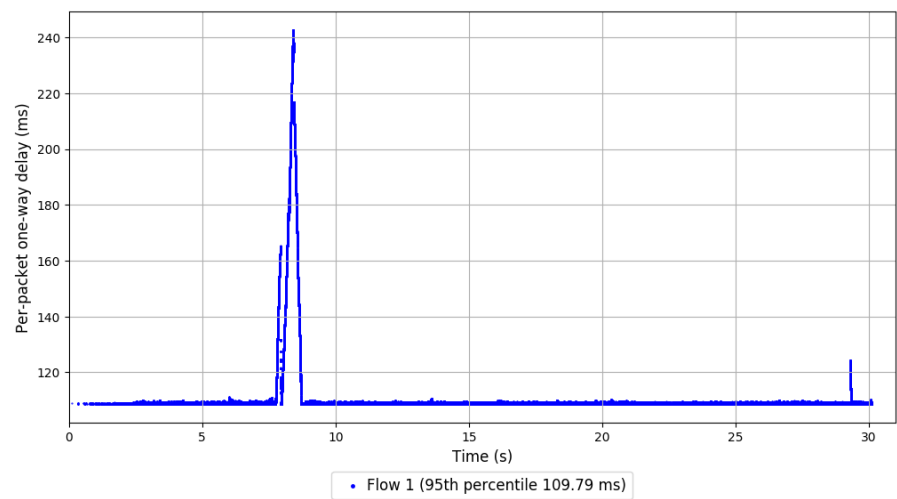
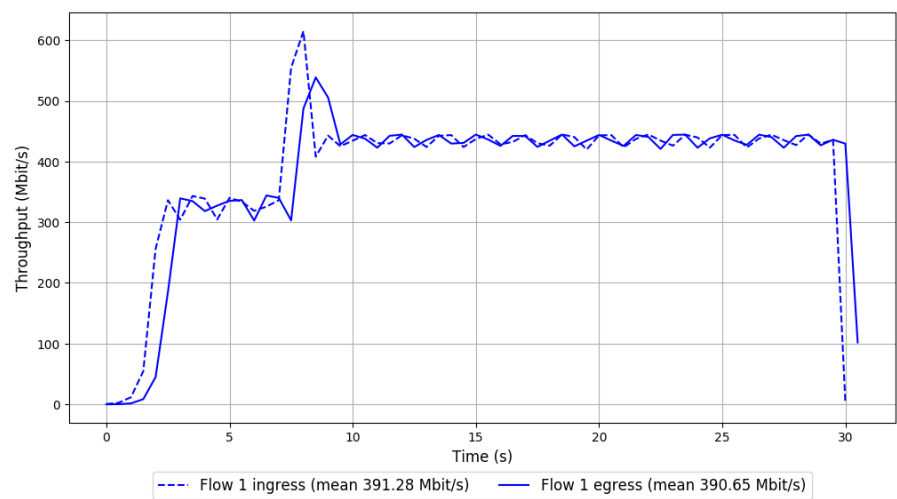
-- Flow 1:

Average throughput: 390.65 Mbit/s

95th percentile per-packet one-way delay: 109.793 ms

Loss rate: 0.16%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-02-19 18:33:44

End at: 2019-02-19 18:34:14

Local clock offset: 7.301 ms

Remote clock offset: 6.818 ms

Below is generated by plot.py at 2019-02-19 23:16:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.39 Mbit/s

95th percentile per-packet one-way delay: 190.835 ms

Loss rate: 0.06%

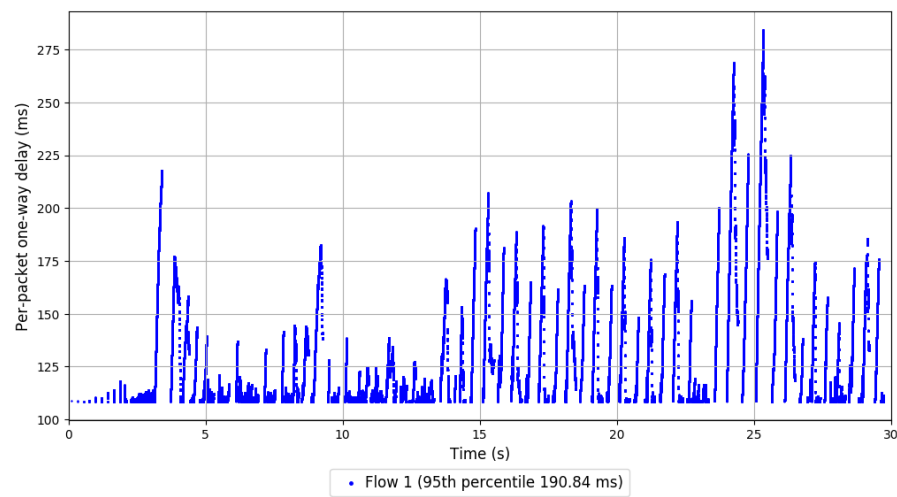
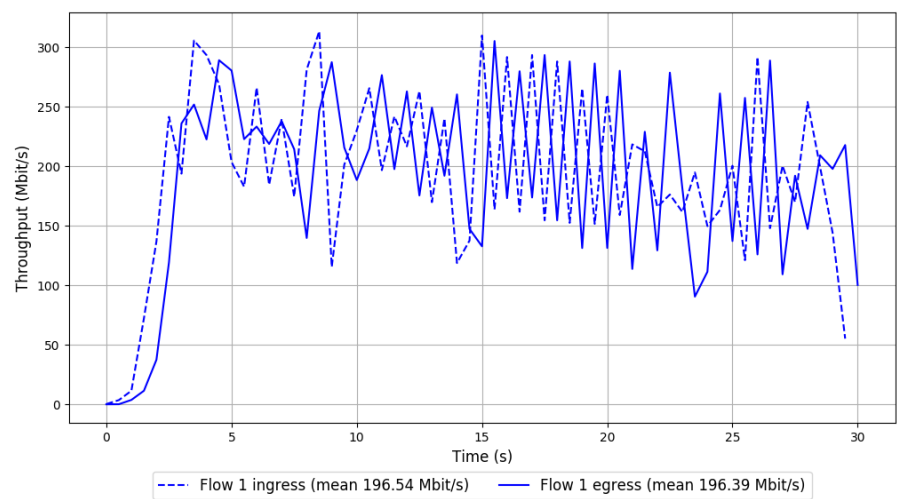
-- Flow 1:

Average throughput: 196.39 Mbit/s

95th percentile per-packet one-way delay: 190.835 ms

Loss rate: 0.06%

Run 1: Report of Verus — Data Link

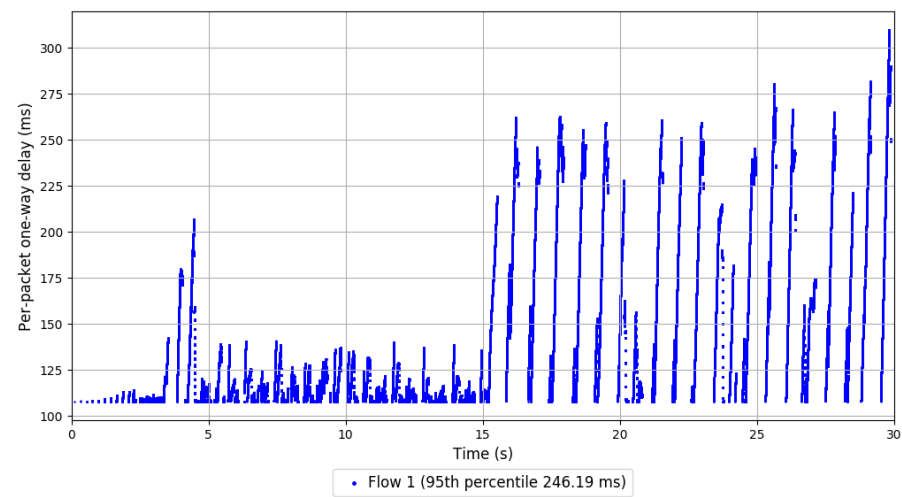
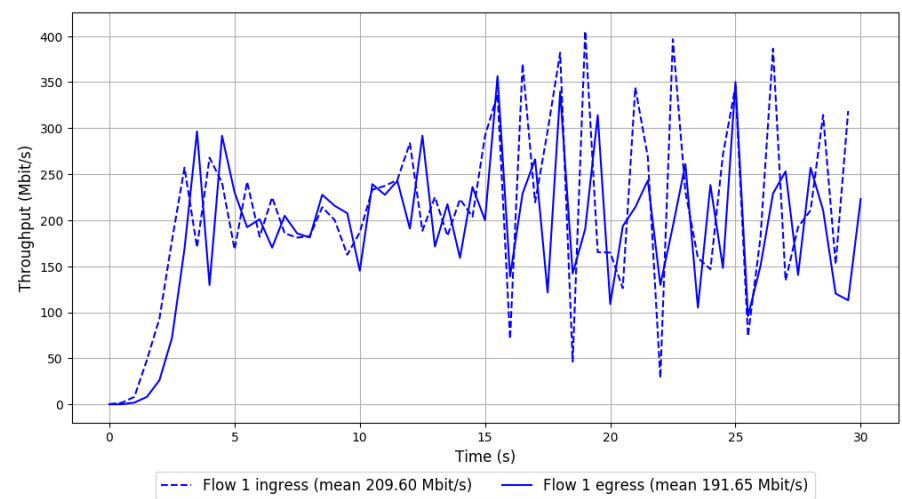


Run 2: Statistics of Verus

Start at: 2019-02-19 19:05:53
End at: 2019-02-19 19:06:23
Local clock offset: 21.099 ms
Remote clock offset: 21.462 ms

Below is generated by plot.py at 2019-02-19 23:16:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 191.65 Mbit/s
95th percentile per-packet one-way delay: 246.185 ms
Loss rate: 8.36%
-- Flow 1:
Average throughput: 191.65 Mbit/s
95th percentile per-packet one-way delay: 246.185 ms
Loss rate: 8.36%

Run 2: Report of Verus — Data Link

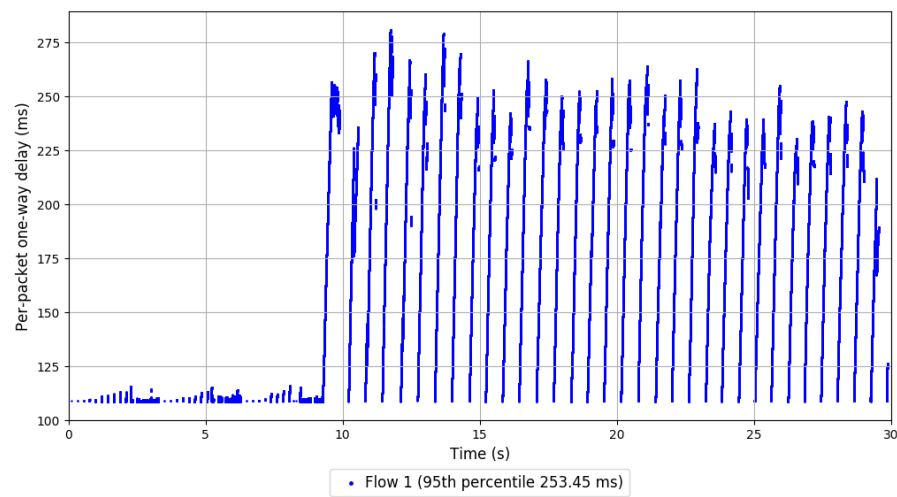
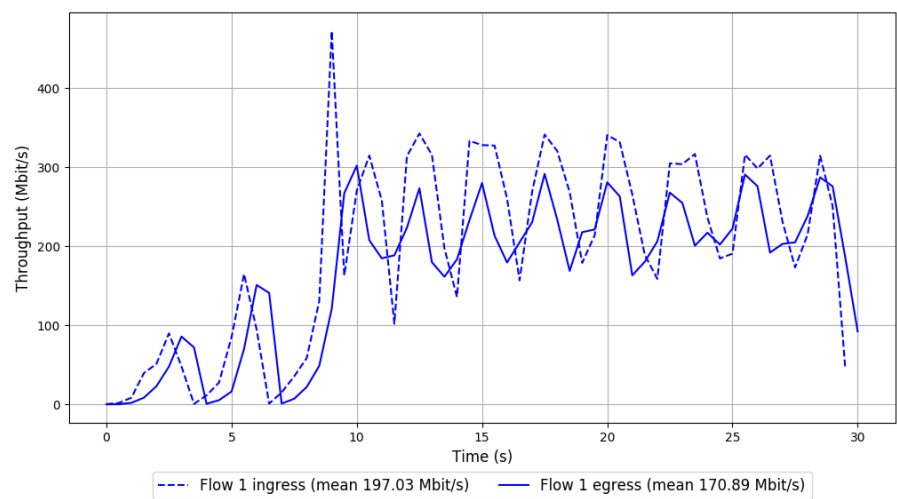


Run 3: Statistics of Verus

Start at: 2019-02-19 19:38:26
End at: 2019-02-19 19:38:56
Local clock offset: 33.473 ms
Remote clock offset: 33.932 ms

Below is generated by plot.py at 2019-02-19 23:16:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 170.89 Mbit/s
95th percentile per-packet one-way delay: 253.450 ms
Loss rate: 13.27%
-- Flow 1:
Average throughput: 170.89 Mbit/s
95th percentile per-packet one-way delay: 253.450 ms
Loss rate: 13.27%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-02-19 20:10:34

End at: 2019-02-19 20:11:04

Local clock offset: 17.6 ms

Remote clock offset: 18.43 ms

Below is generated by plot.py at 2019-02-19 23:16:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.36 Mbit/s

95th percentile per-packet one-way delay: 151.438 ms

Loss rate: 0.02%

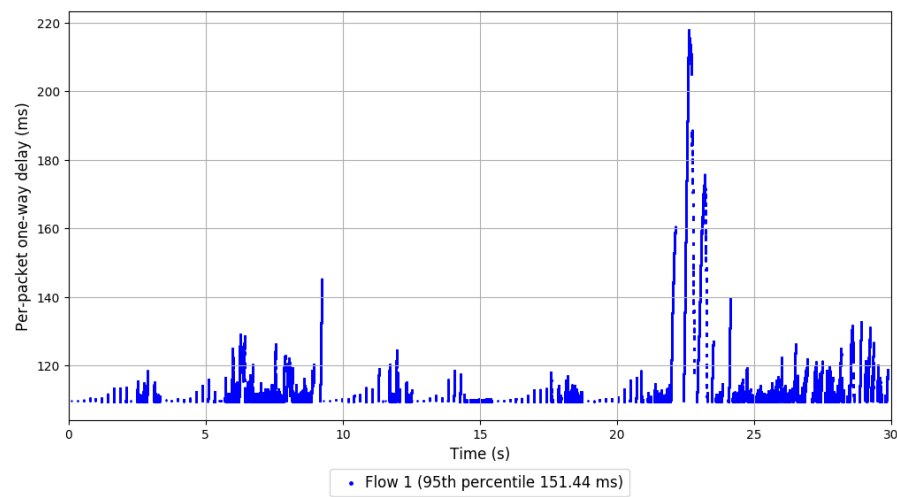
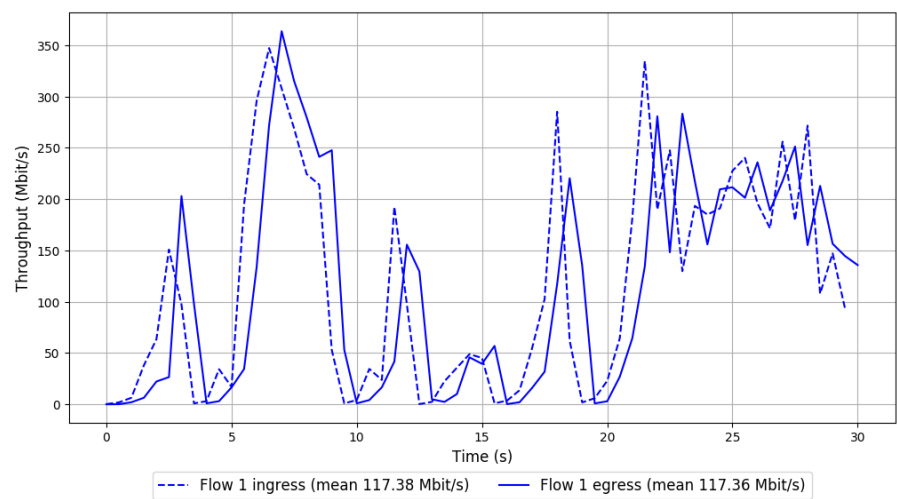
-- Flow 1:

Average throughput: 117.36 Mbit/s

95th percentile per-packet one-way delay: 151.438 ms

Loss rate: 0.02%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-02-19 20:43:02

End at: 2019-02-19 20:43:32

Local clock offset: 4.079 ms

Remote clock offset: 8.302 ms

Below is generated by plot.py at 2019-02-19 23:16:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.33 Mbit/s

95th percentile per-packet one-way delay: 156.015 ms

Loss rate: 0.01%

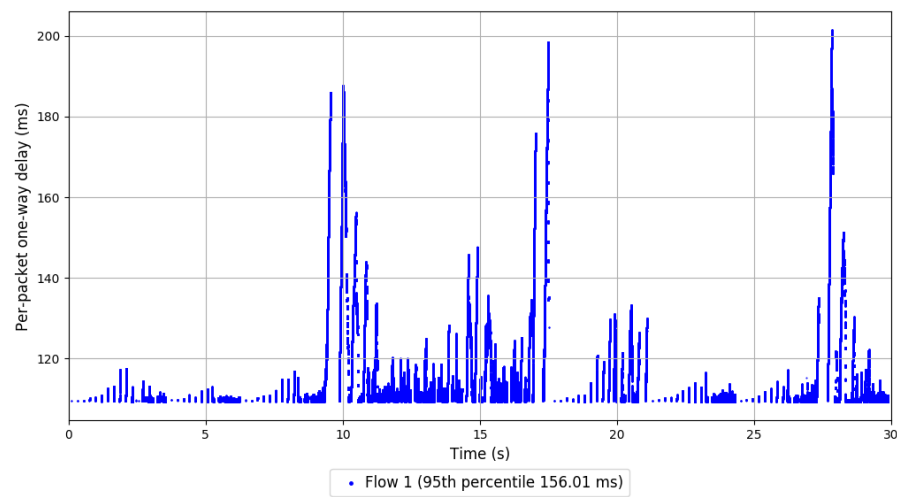
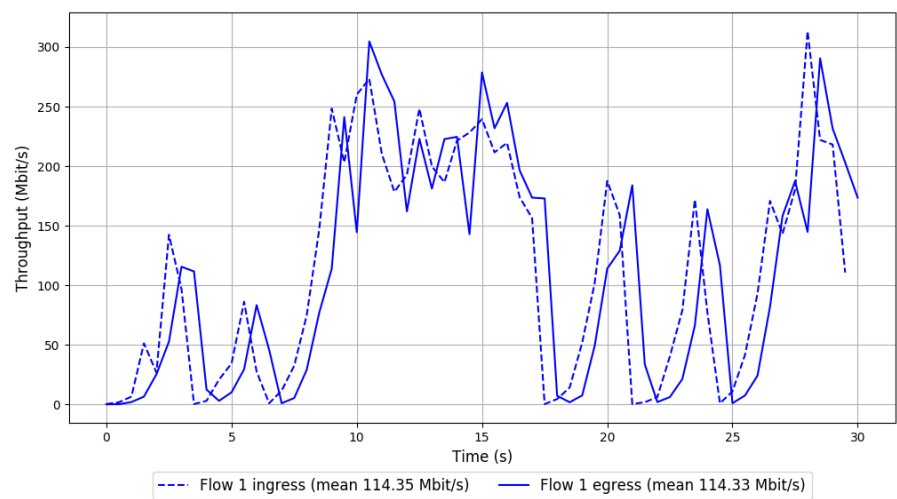
-- Flow 1:

Average throughput: 114.33 Mbit/s

95th percentile per-packet one-way delay: 156.015 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link

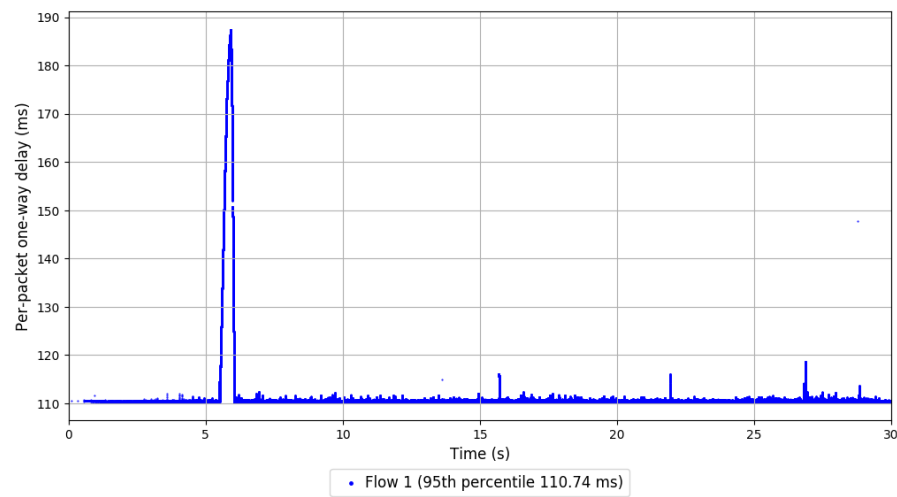
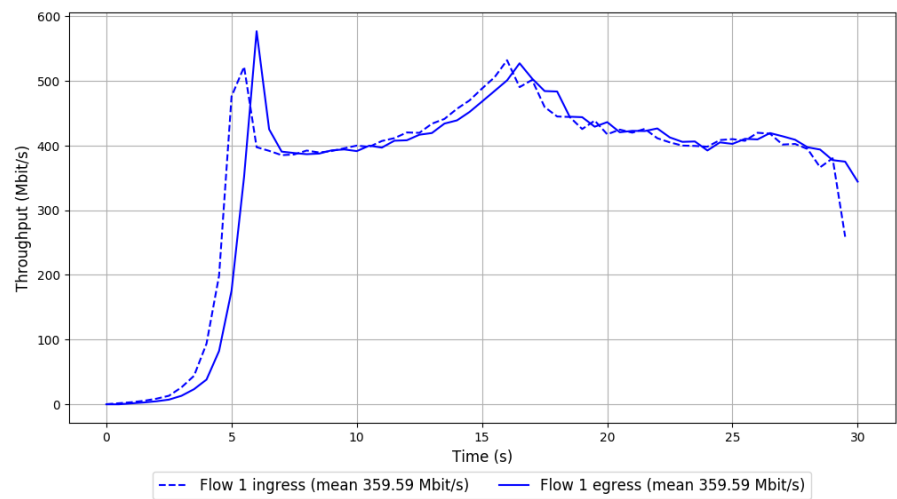


Run 1: Statistics of PCC-Vivace

Start at: 2019-02-19 18:48:23
End at: 2019-02-19 18:48:53
Local clock offset: 13.004 ms
Remote clock offset: 13.377 ms

Below is generated by plot.py at 2019-02-19 23:17:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 359.59 Mbit/s
95th percentile per-packet one-way delay: 110.740 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 359.59 Mbit/s
95th percentile per-packet one-way delay: 110.740 ms
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-02-19 19:20:54

End at: 2019-02-19 19:21:24

Local clock offset: 21.088 ms

Remote clock offset: 21.961 ms

Below is generated by plot.py at 2019-02-19 23:18:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.09 Mbit/s

95th percentile per-packet one-way delay: 110.127 ms

Loss rate: 0.02%

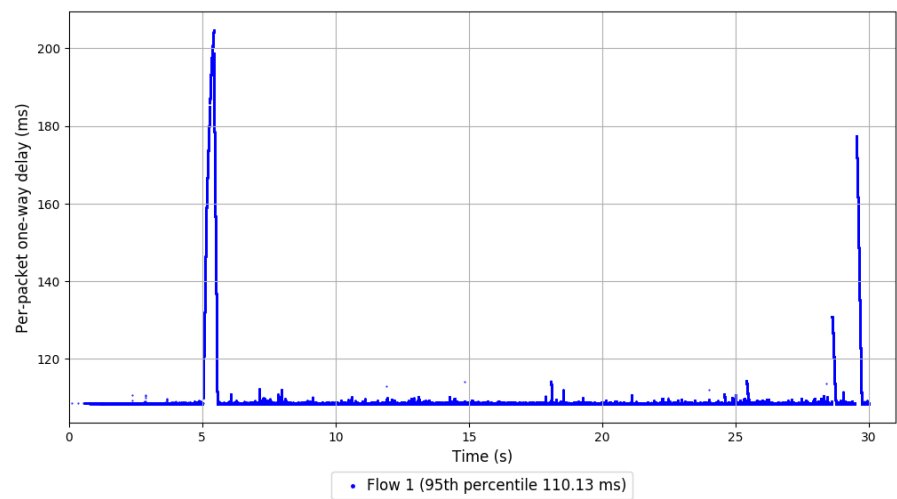
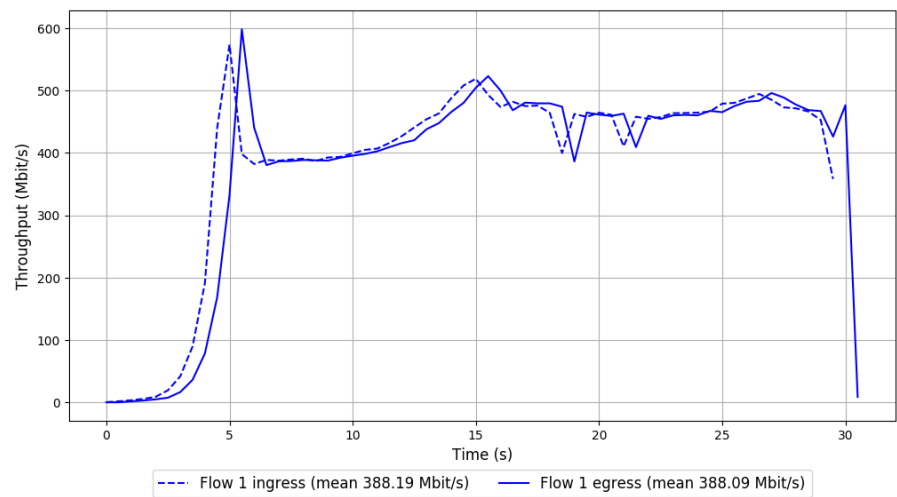
-- Flow 1:

Average throughput: 388.09 Mbit/s

95th percentile per-packet one-way delay: 110.127 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link

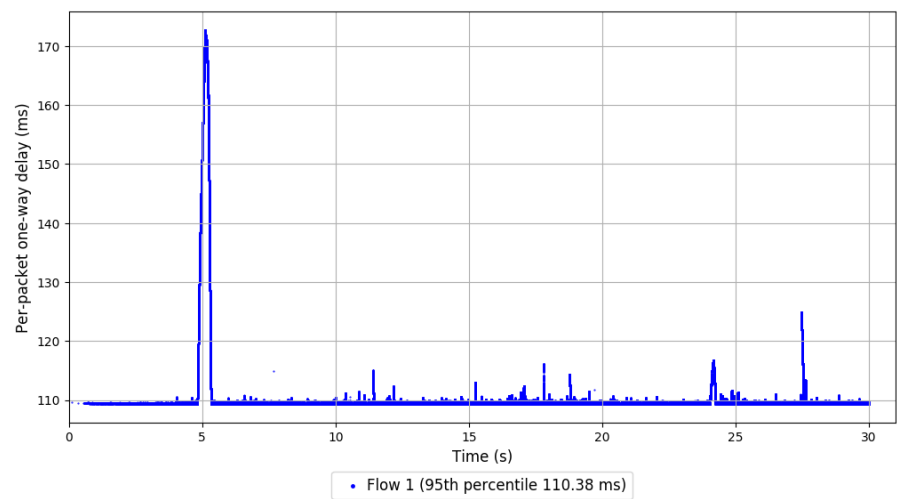
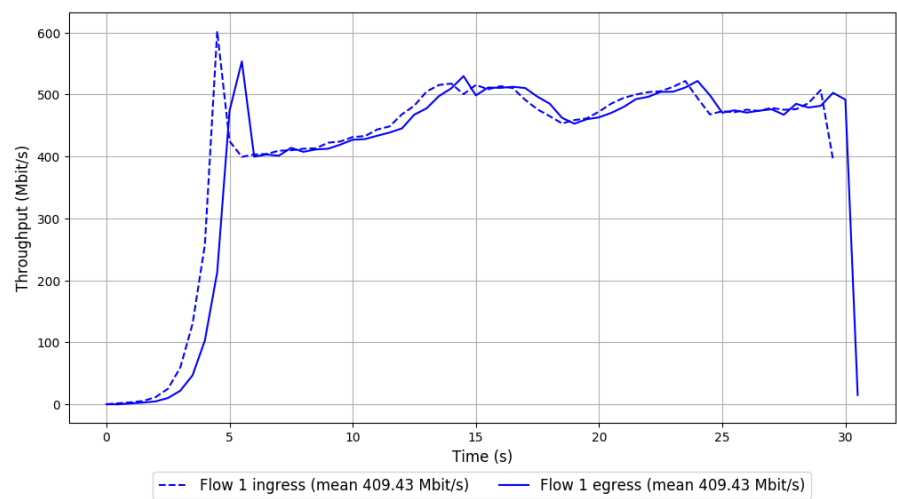


Run 3: Statistics of PCC-Vivace

Start at: 2019-02-19 19:53:02
End at: 2019-02-19 19:53:32
Local clock offset: 13.841 ms
Remote clock offset: 14.355 ms

Below is generated by plot.py at 2019-02-19 23:18:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 409.43 Mbit/s
95th percentile per-packet one-way delay: 110.375 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 409.43 Mbit/s
95th percentile per-packet one-way delay: 110.375 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-02-19 20:25:21

End at: 2019-02-19 20:25:51

Local clock offset: 5.438 ms

Remote clock offset: 7.193 ms

Below is generated by plot.py at 2019-02-19 23:18:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.11 Mbit/s

95th percentile per-packet one-way delay: 109.744 ms

Loss rate: 0.00%

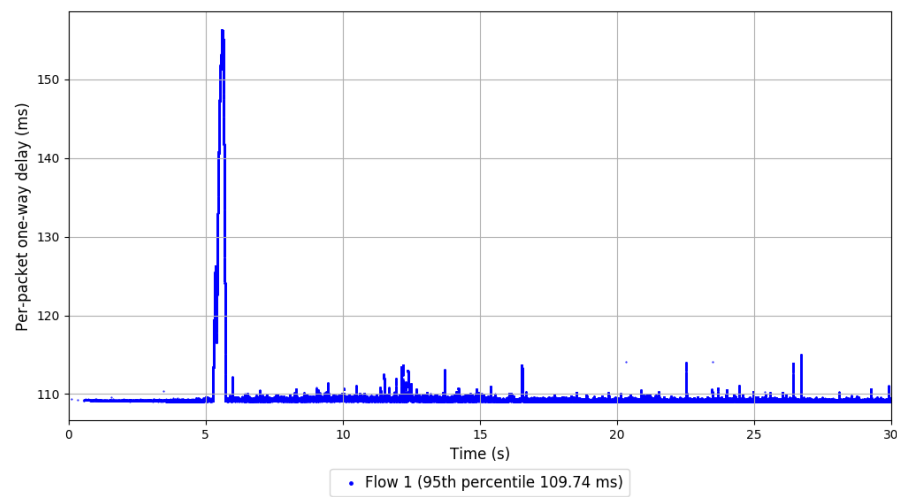
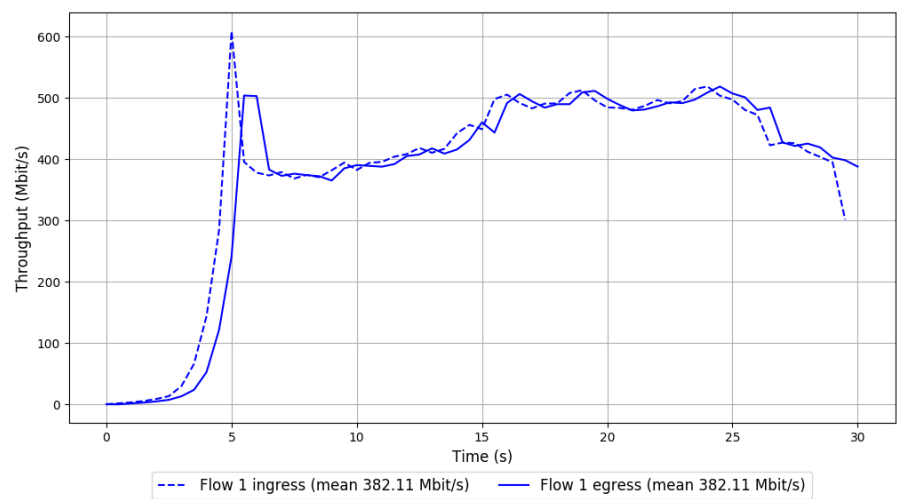
-- Flow 1:

Average throughput: 382.11 Mbit/s

95th percentile per-packet one-way delay: 109.744 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-02-19 20:57:38

End at: 2019-02-19 20:58:08

Local clock offset: 1.496 ms

Remote clock offset: 2.833 ms

Below is generated by plot.py at 2019-02-19 23:18:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.29 Mbit/s

95th percentile per-packet one-way delay: 110.263 ms

Loss rate: 0.00%

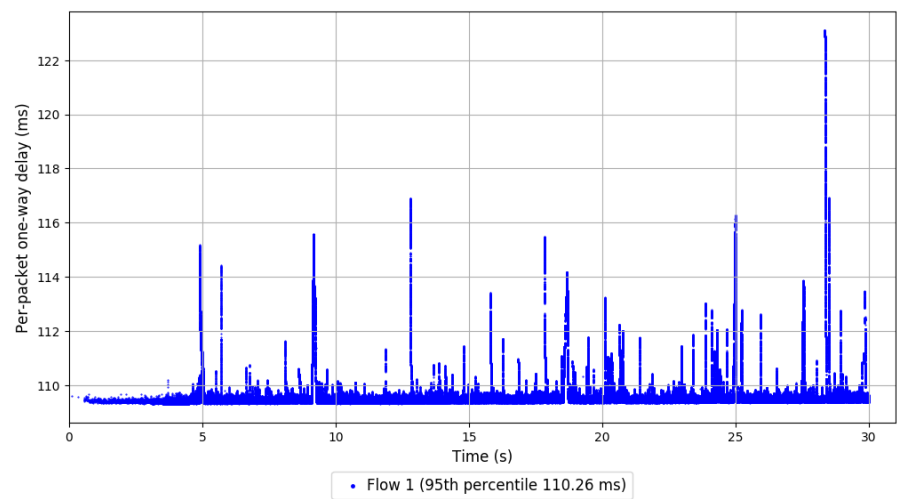
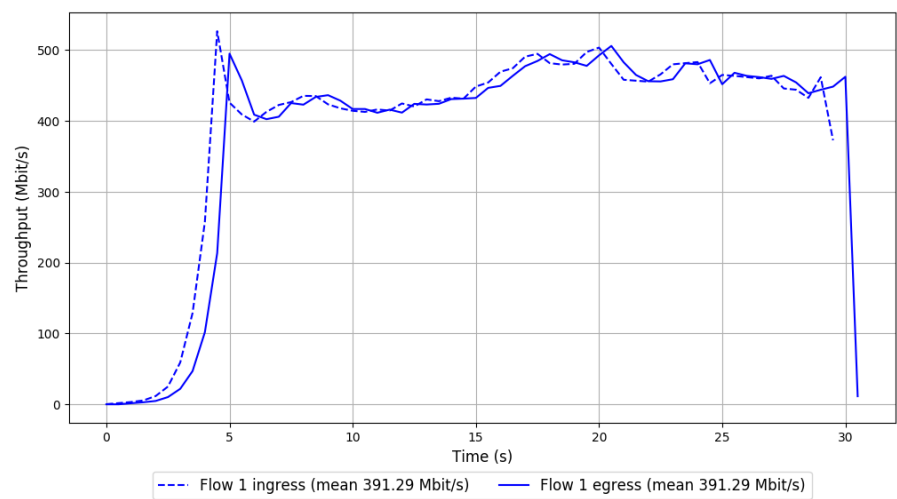
-- Flow 1:

Average throughput: 391.29 Mbit/s

95th percentile per-packet one-way delay: 110.263 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

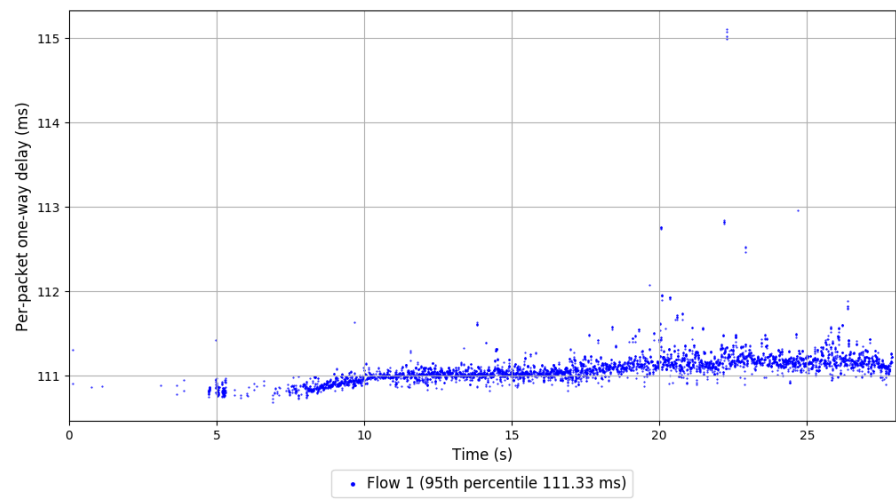
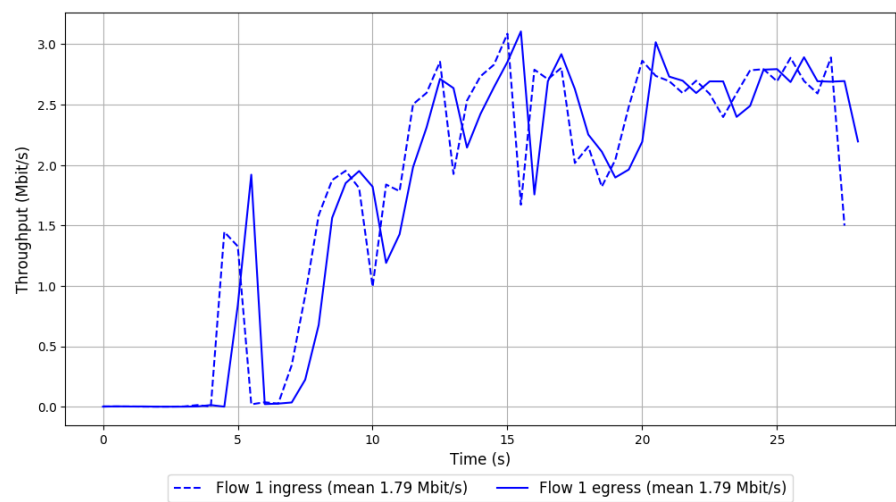


Run 1: Statistics of WebRTC media

Start at: 2019-02-19 18:46:03
End at: 2019-02-19 18:46:33
Local clock offset: 15.026 ms
Remote clock offset: 15.913 ms

Below is generated by plot.py at 2019-02-19 23:18:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 111.334 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 111.334 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

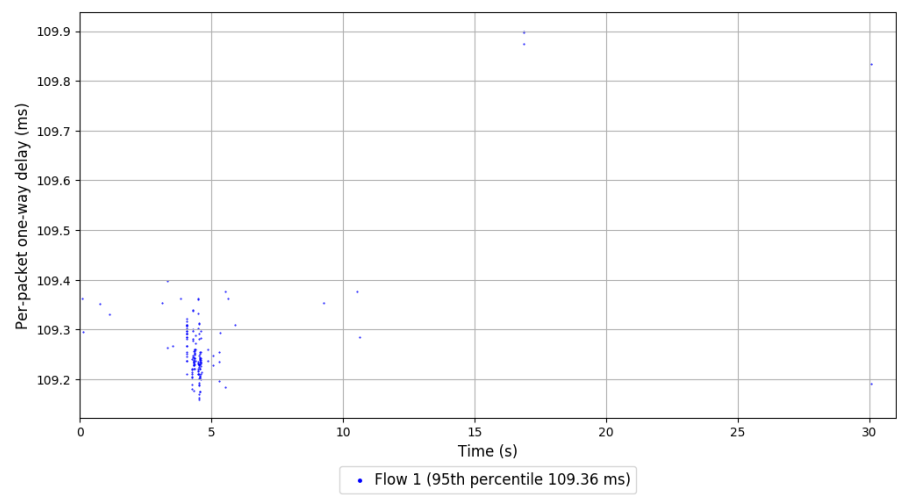
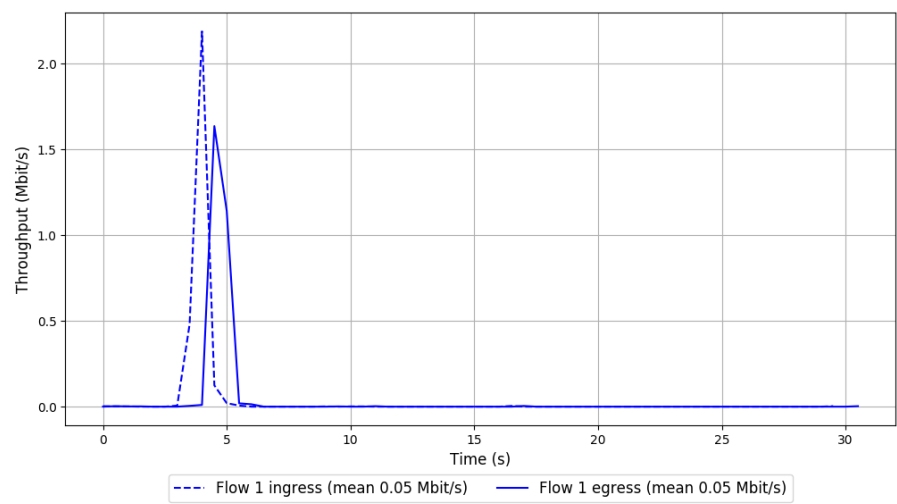


Run 2: Statistics of WebRTC media

Start at: 2019-02-19 19:18:35
End at: 2019-02-19 19:19:05
Local clock offset: 19.677 ms
Remote clock offset: 20.472 ms

Below is generated by plot.py at 2019-02-19 23:18:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.363 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.363 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-02-19 19:50:44

End at: 2019-02-19 19:51:14

Local clock offset: 14.616 ms

Remote clock offset: 14.95 ms

Below is generated by plot.py at 2019-02-19 23:18:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 109.307 ms

Loss rate: 0.00%

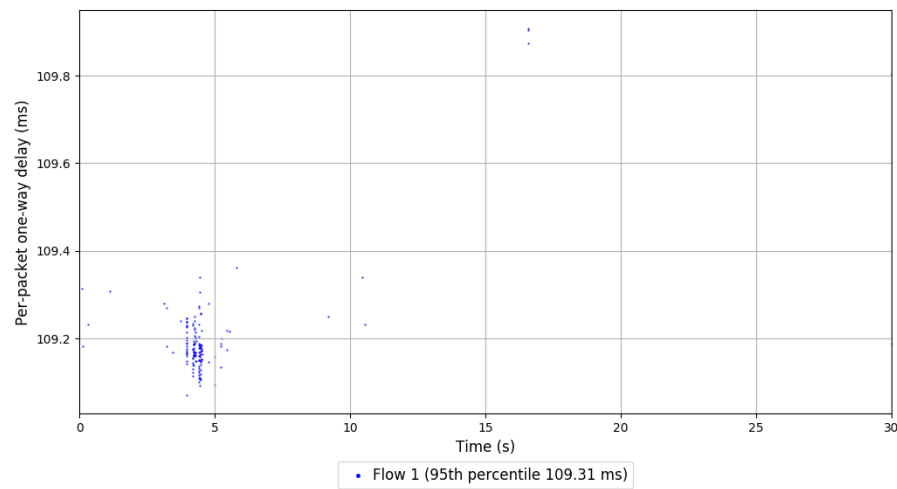
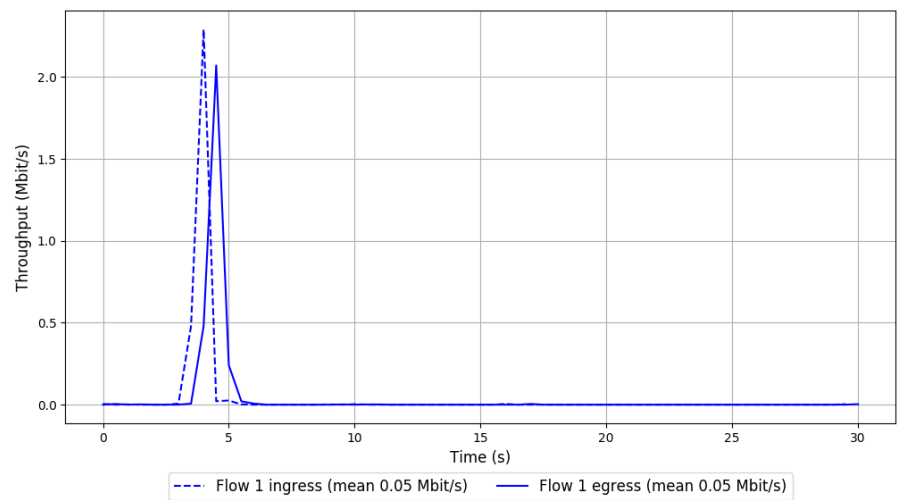
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 109.307 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-02-19 20:23:01

End at: 2019-02-19 20:23:31

Local clock offset: 6.071 ms

Remote clock offset: 7.777 ms

Below is generated by plot.py at 2019-02-19 23:18:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 109.407 ms

Loss rate: 0.00%

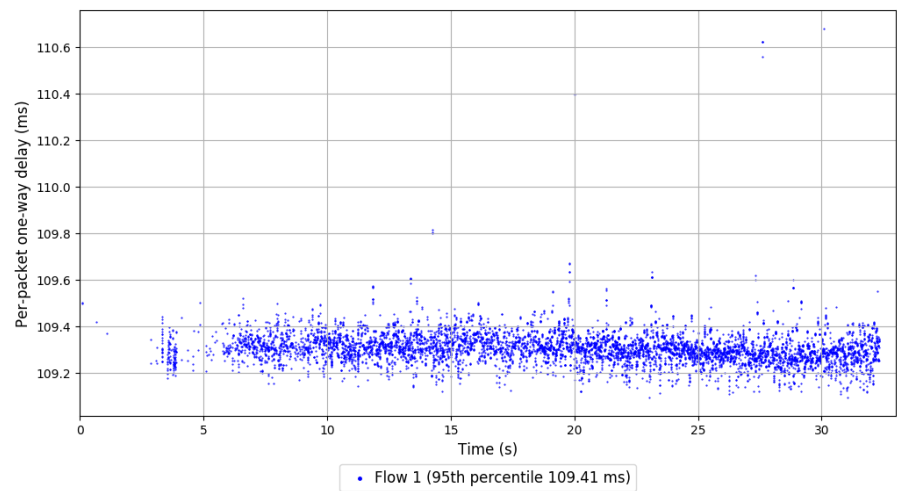
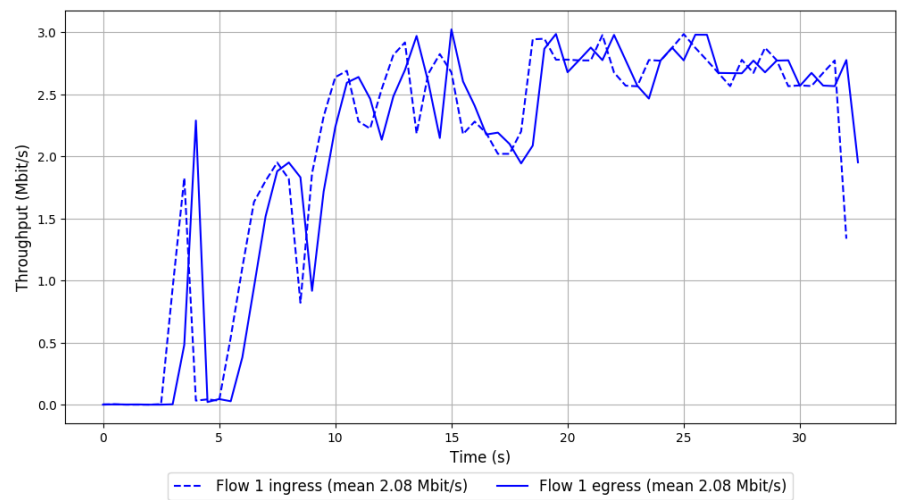
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 109.407 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-02-19 20:55:20

End at: 2019-02-19 20:55:50

Local clock offset: 1.78 ms

Remote clock offset: 3.427 ms

Below is generated by plot.py at 2019-02-19 23:18:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 109.411 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 109.411 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

