

Pantheon Report

Generated at 2019-01-17 09:58:06 (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:

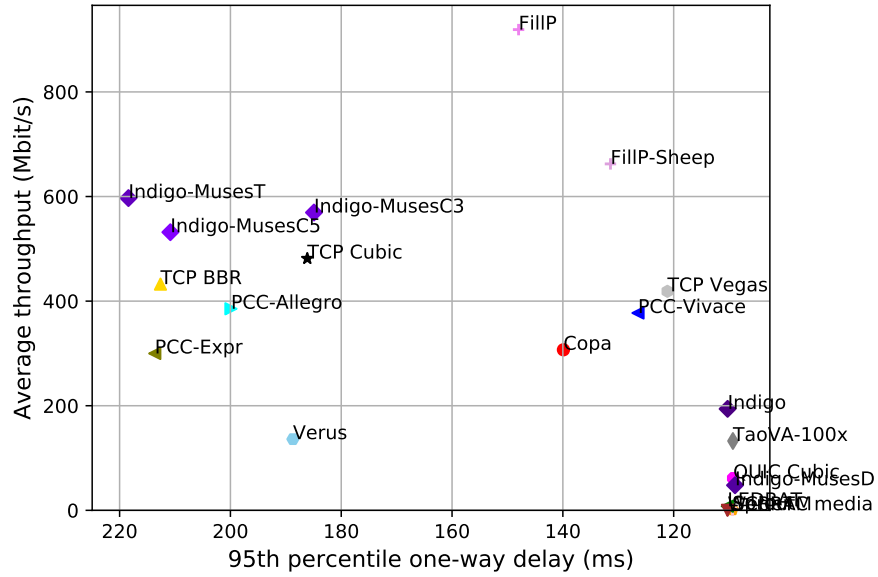
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

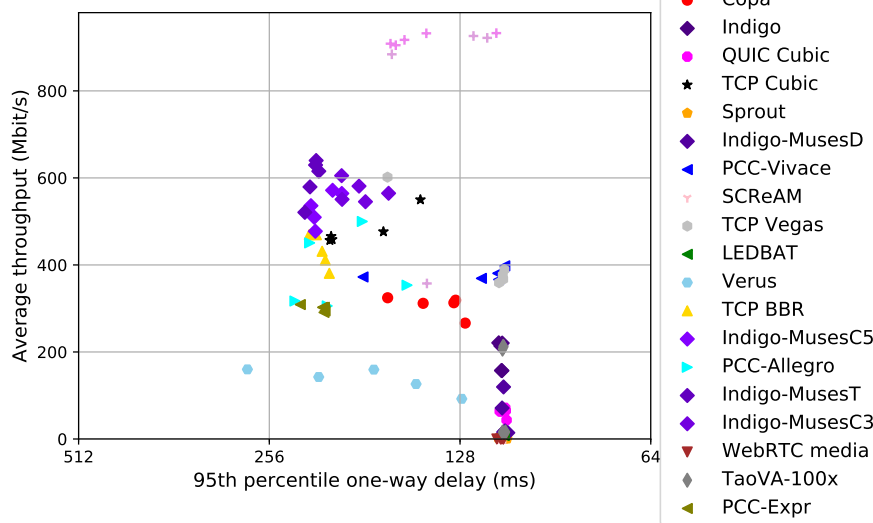
```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefe166e1afe2170
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)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	432.53	212.62	1.00
Copa	5	306.96	139.90	0.05
TCP Cubic	5	481.40	186.13	0.20
FillP	5	919.14	147.99	0.66
FillP-Sheep	5	662.36	131.41	0.25
Indigo	5	193.99	110.27	0.00
Indigo-MusesC3	5	569.40	184.92	0.45
Indigo-MusesC5	5	531.77	210.84	4.57
Indigo-MusesD	5	47.92	108.93	0.00
Indigo-MusesT	5	597.01	218.40	5.65
LEDBAT	5	7.85	110.32	0.00
PCC-Allegro	5	385.38	199.90	1.91
PCC-Expr	5	299.91	213.65	2.39
QUIC Cubic	5	61.35	109.26	0.00
SCReAM	5	0.22	109.38	0.00
Sprout	5	1.29	109.43	0.00
TaoVA-100x	5	132.56	109.31	0.00
TCP Vegas	5	418.73	121.13	0.03
Verus	5	136.11	188.72	2.62
PCC-Vivace	5	377.31	126.44	0.09
WebRTC media	5	0.05	110.29	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-01-17 05:26:20

End at: 2019-01-17 05:26:50

Local clock offset: 0.817 ms

Remote clock offset: 0.57 ms

Below is generated by plot.py at 2019-01-17 08:06:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 411.35 Mbit/s

95th percentile per-packet one-way delay: 208.868 ms

Loss rate: 0.91%

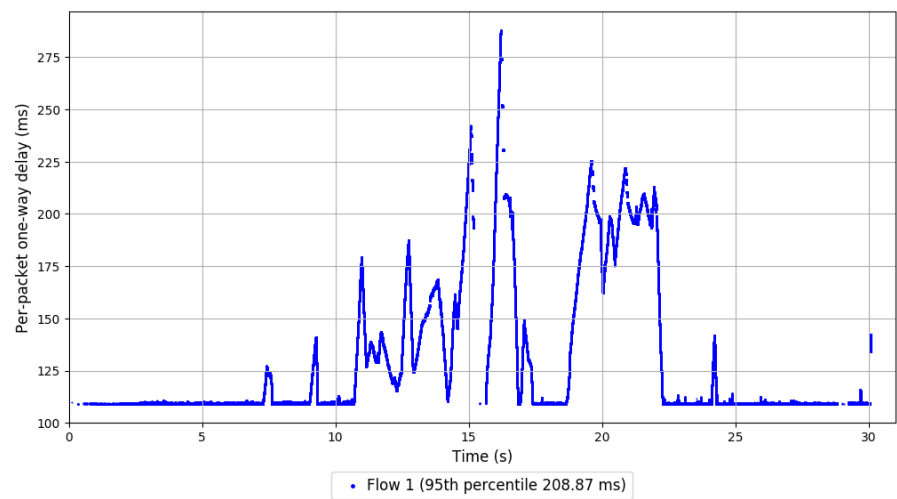
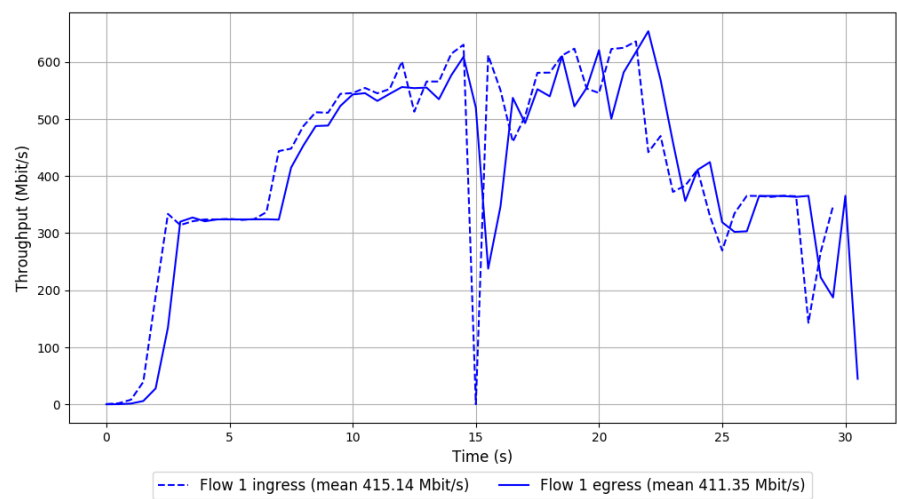
-- Flow 1:

Average throughput: 411.35 Mbit/s

95th percentile per-packet one-way delay: 208.868 ms

Loss rate: 0.91%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-01-17 05:57:34

End at: 2019-01-17 05:58:04

Local clock offset: 1.201 ms

Remote clock offset: 0.201 ms

Below is generated by plot.py at 2019-01-17 08:09:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 469.43 Mbit/s

95th percentile per-packet one-way delay: 215.759 ms

Loss rate: 0.95%

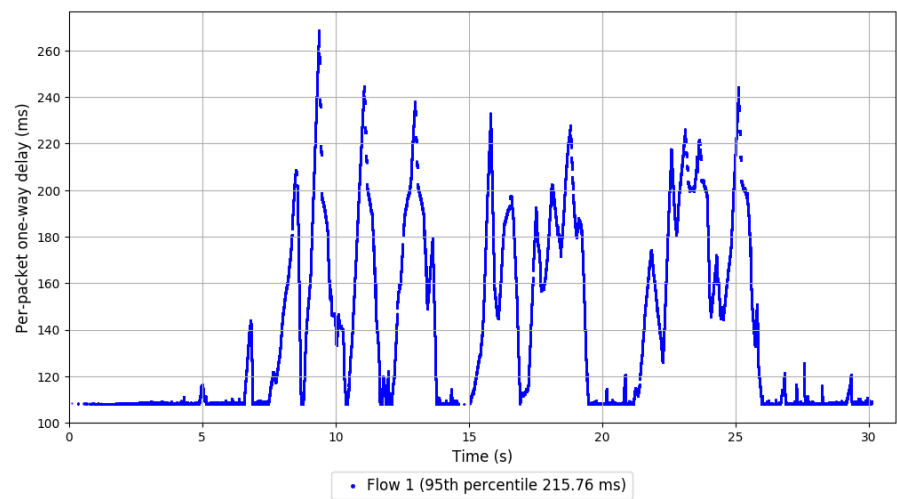
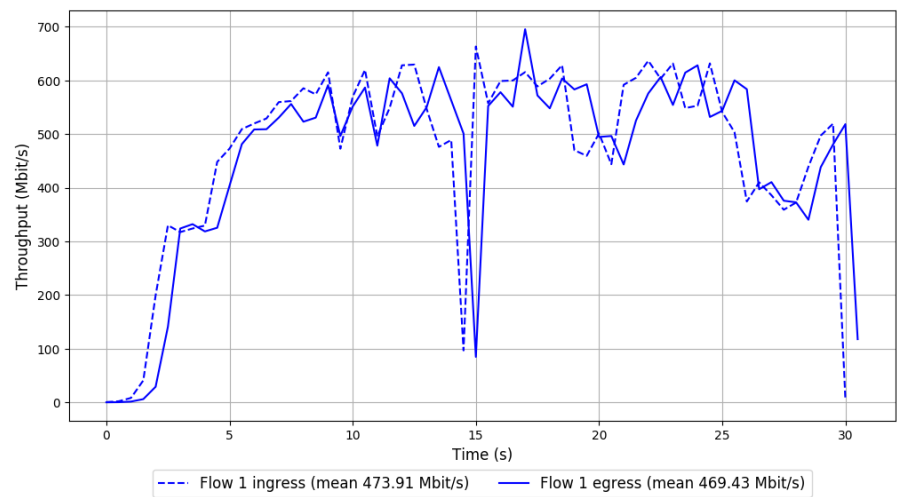
-- Flow 1:

Average throughput: 469.43 Mbit/s

95th percentile per-packet one-way delay: 215.759 ms

Loss rate: 0.95%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-17 06:28:44

End at: 2019-01-17 06:29:14

Local clock offset: -0.958 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2019-01-17 08:09:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 469.76 Mbit/s

95th percentile per-packet one-way delay: 221.375 ms

Loss rate: 1.74%

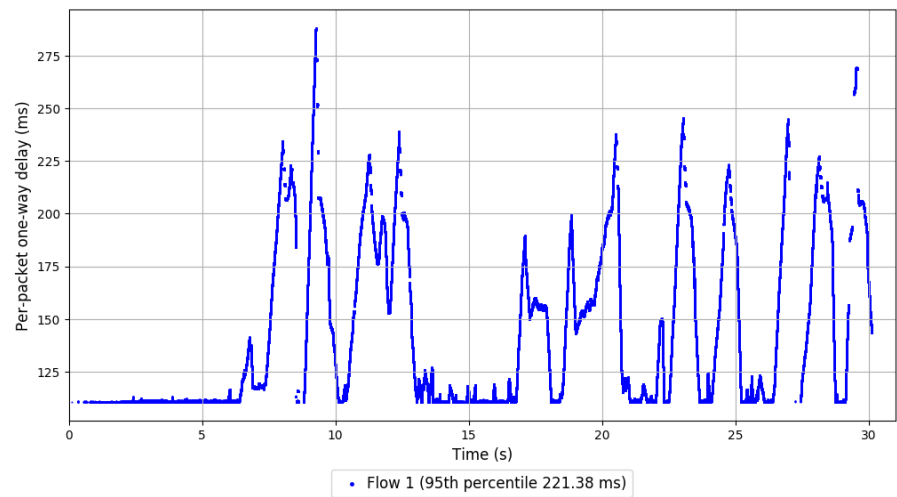
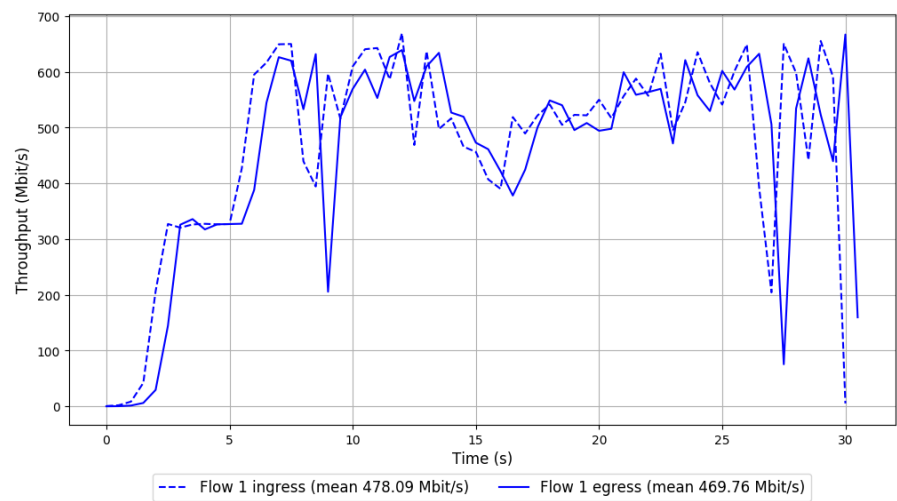
-- Flow 1:

Average throughput: 469.76 Mbit/s

95th percentile per-packet one-way delay: 221.375 ms

Loss rate: 1.74%

Run 3: Report of TCP BBR — Data Link

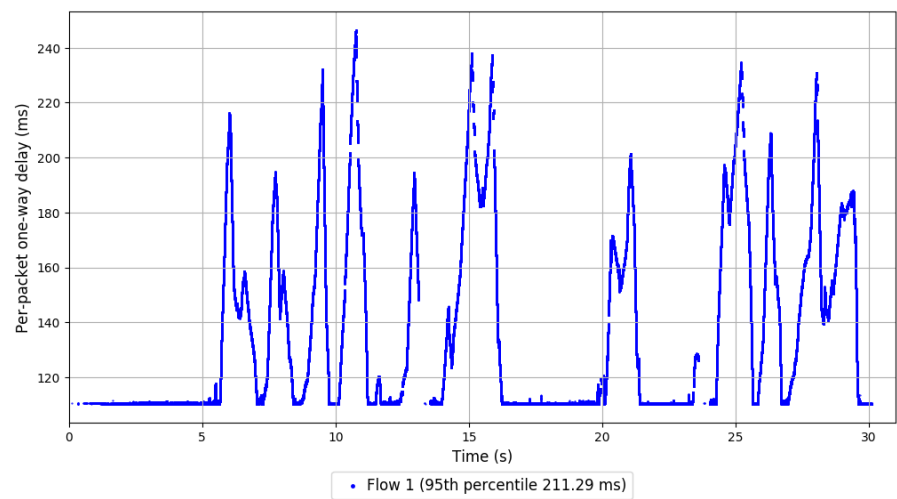
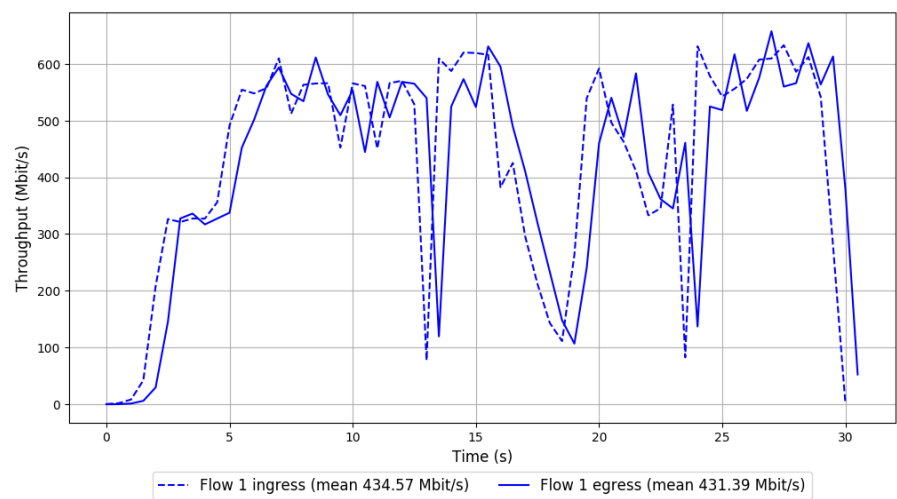


Run 4: Statistics of TCP BBR

Start at: 2019-01-17 07:00:09
End at: 2019-01-17 07:00:39
Local clock offset: -1.165 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2019-01-17 08:09:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 431.39 Mbit/s
95th percentile per-packet one-way delay: 211.293 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 431.39 Mbit/s
95th percentile per-packet one-way delay: 211.293 ms
Loss rate: 0.74%

Run 4: Report of TCP BBR — Data Link

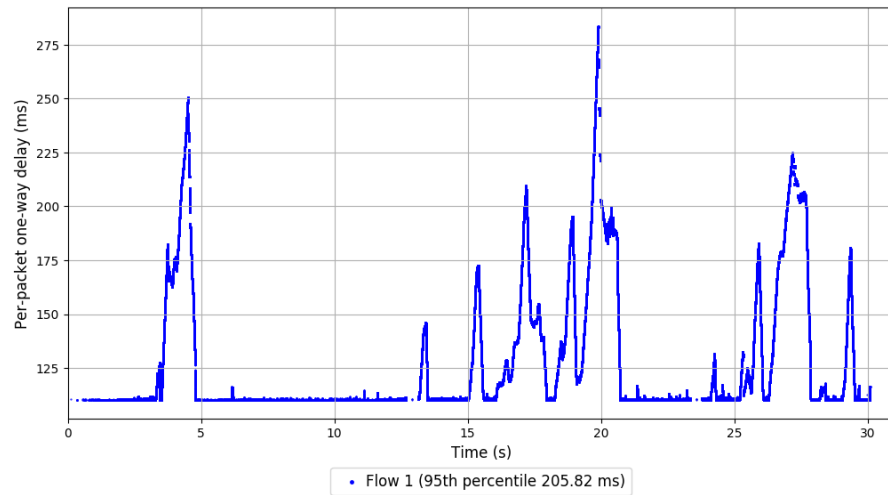
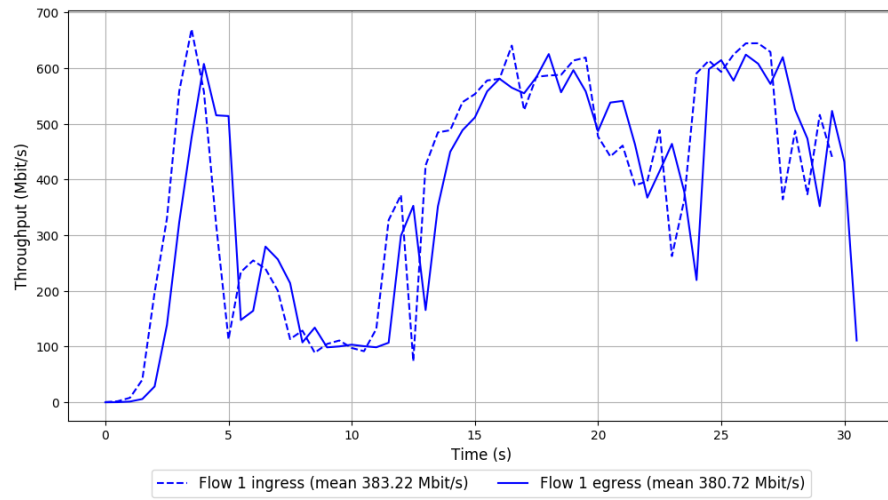


Run 5: Statistics of TCP BBR

Start at: 2019-01-17 07:31:30
End at: 2019-01-17 07:32:00
Local clock offset: -1.531 ms
Remote clock offset: -0.392 ms

Below is generated by plot.py at 2019-01-17 08:09:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 380.72 Mbit/s
95th percentile per-packet one-way delay: 205.825 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 380.72 Mbit/s
95th percentile per-packet one-way delay: 205.825 ms
Loss rate: 0.65%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-01-17 05:19:31

End at: 2019-01-17 05:20:01

Local clock offset: 0.697 ms

Remote clock offset: 0.674 ms

Below is generated by plot.py at 2019-01-17 08:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.34 Mbit/s

95th percentile per-packet one-way delay: 125.620 ms

Loss rate: 0.00%

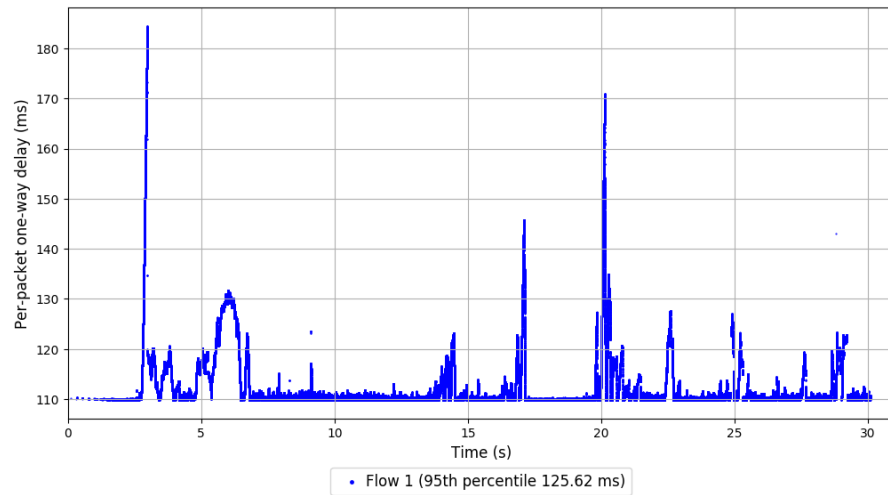
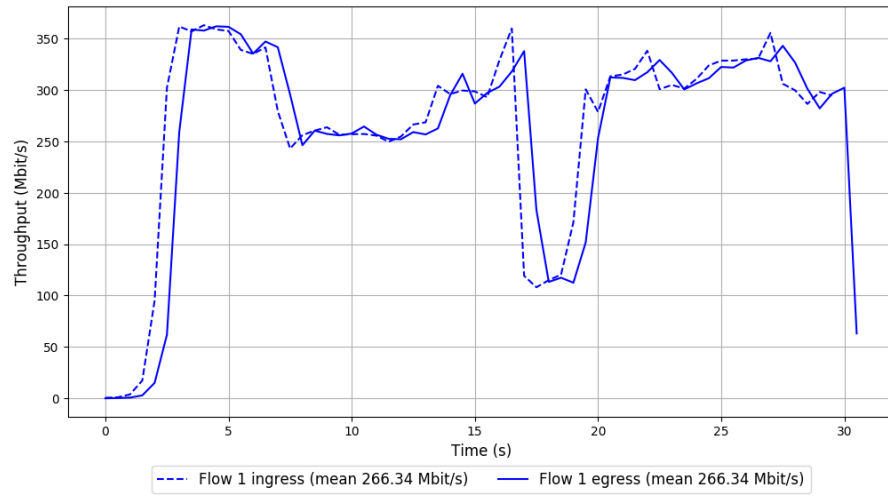
-- Flow 1:

Average throughput: 266.34 Mbit/s

95th percentile per-packet one-way delay: 125.620 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

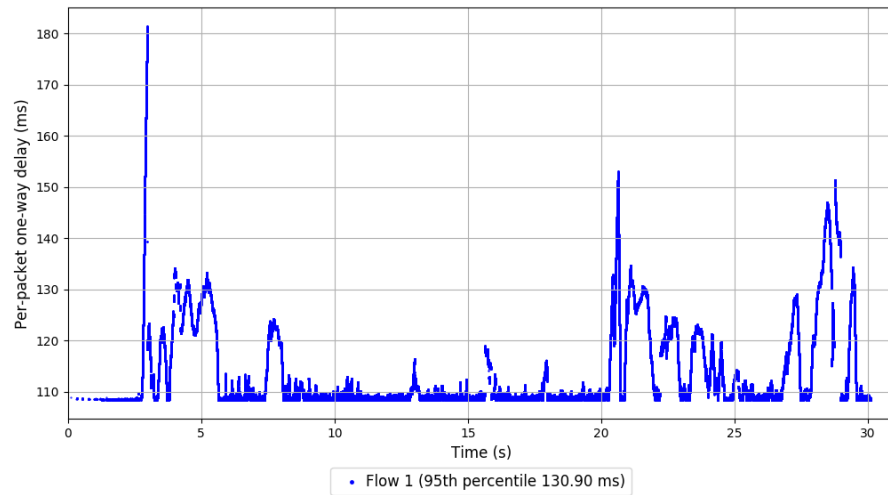
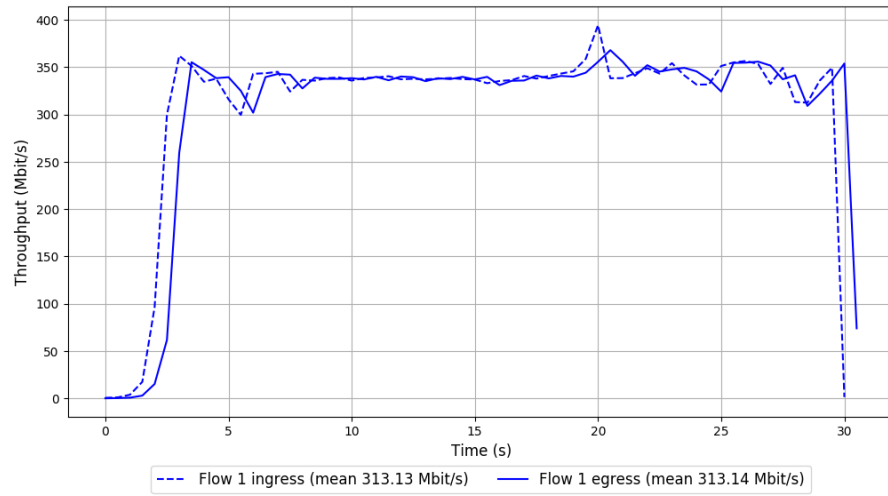


Run 2: Statistics of Copa

Start at: 2019-01-17 05:50:45
End at: 2019-01-17 05:51:16
Local clock offset: 0.966 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2019-01-17 08:10:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 313.14 Mbit/s
95th percentile per-packet one-way delay: 130.903 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 313.14 Mbit/s
95th percentile per-packet one-way delay: 130.903 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-01-17 06:22:09

End at: 2019-01-17 06:22:39

Local clock offset: 1.463 ms

Remote clock offset: 0.482 ms

Below is generated by plot.py at 2019-01-17 08:11:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.96 Mbit/s

95th percentile per-packet one-way delay: 130.076 ms

Loss rate: 0.07%

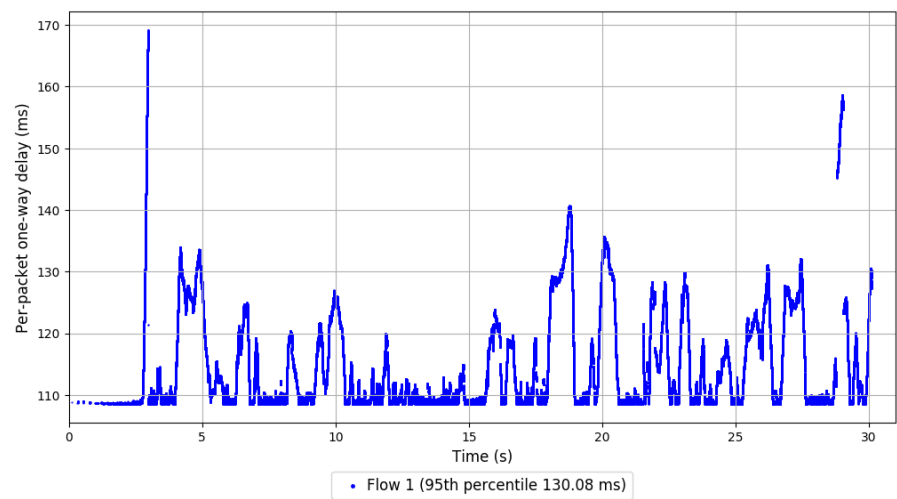
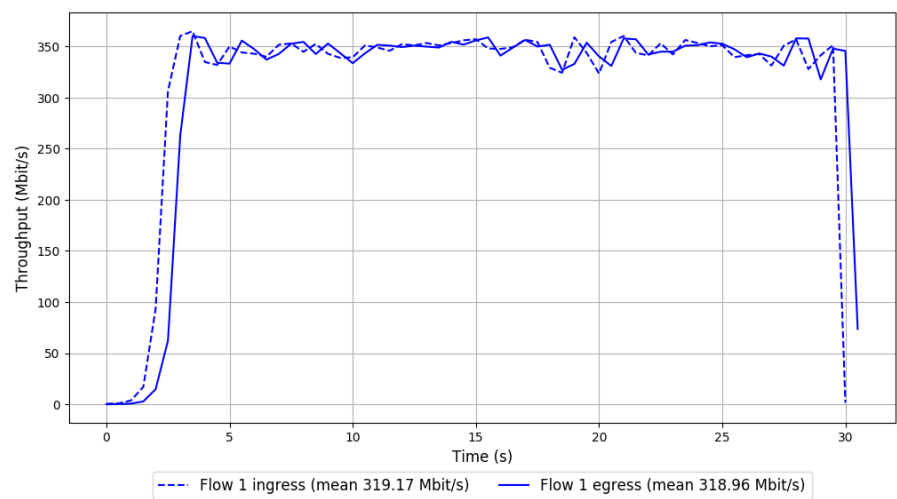
-- Flow 1:

Average throughput: 318.96 Mbit/s

95th percentile per-packet one-way delay: 130.076 ms

Loss rate: 0.07%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-01-17 06:53:27

End at: 2019-01-17 06:53:57

Local clock offset: 0.26 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2019-01-17 08:19:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.78 Mbit/s

95th percentile per-packet one-way delay: 146.365 ms

Loss rate: 0.01%

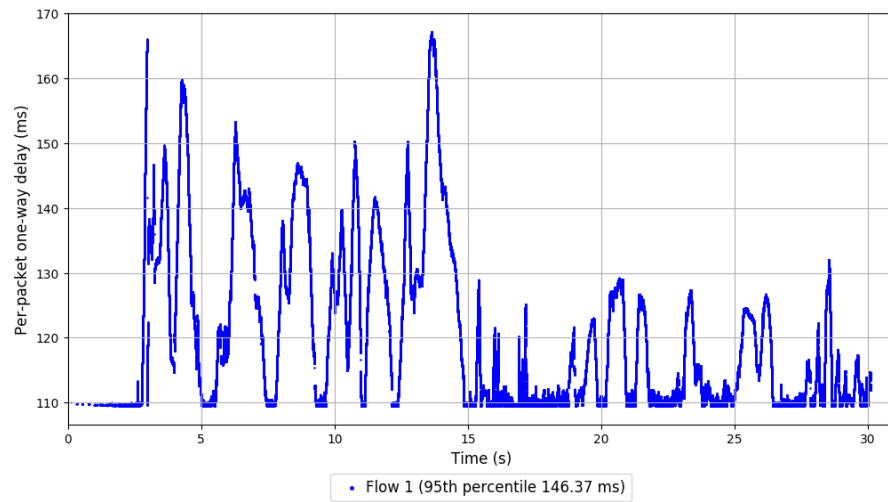
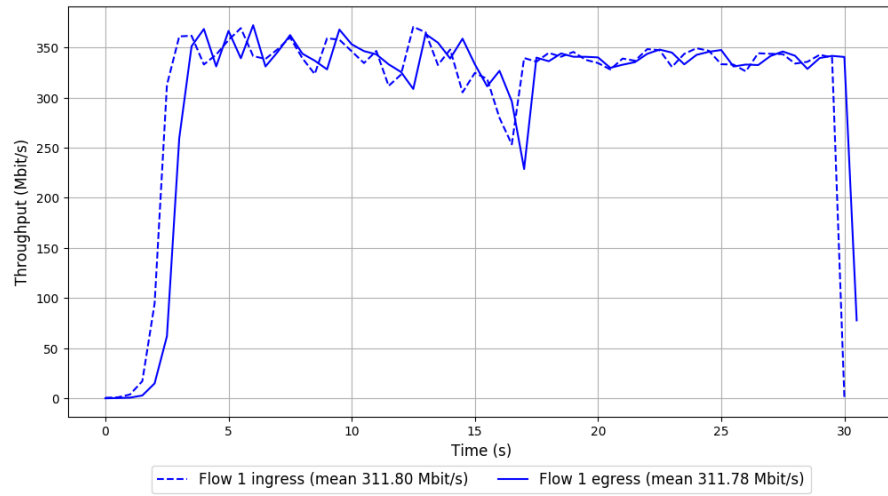
-- Flow 1:

Average throughput: 311.78 Mbit/s

95th percentile per-packet one-way delay: 146.365 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link

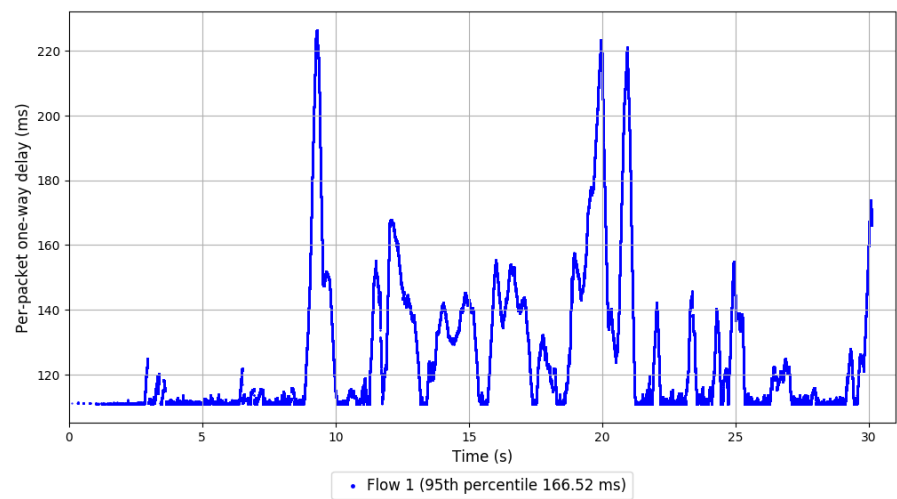
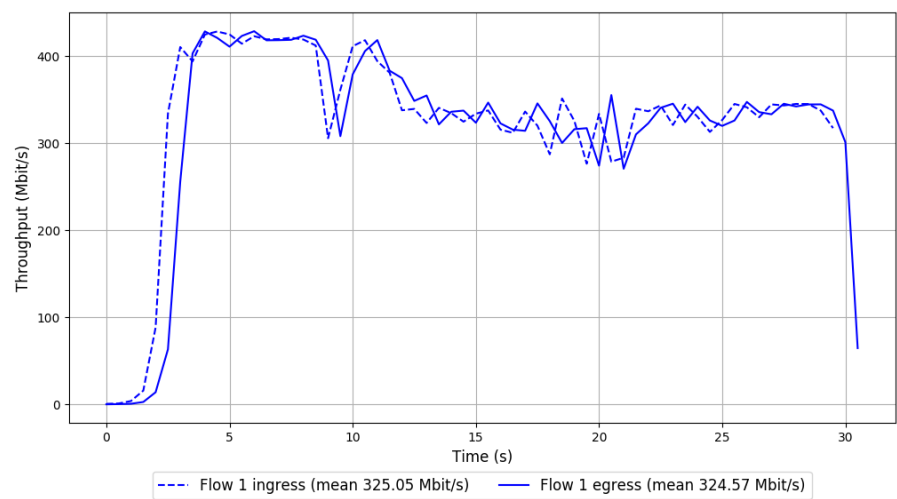


Run 5: Statistics of Copa

Start at: 2019-01-17 07:24:50
End at: 2019-01-17 07:25:20
Local clock offset: -0.065 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2019-01-17 08:21:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 324.57 Mbit/s
95th percentile per-packet one-way delay: 166.520 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 324.57 Mbit/s
95th percentile per-packet one-way delay: 166.520 ms
Loss rate: 0.15%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-01-17 05:33:31

End at: 2019-01-17 05:34:01

Local clock offset: 0.658 ms

Remote clock offset: 0.991 ms

Below is generated by plot.py at 2019-01-17 08:21:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 465.55 Mbit/s

95th percentile per-packet one-way delay: 204.497 ms

Loss rate: 0.30%

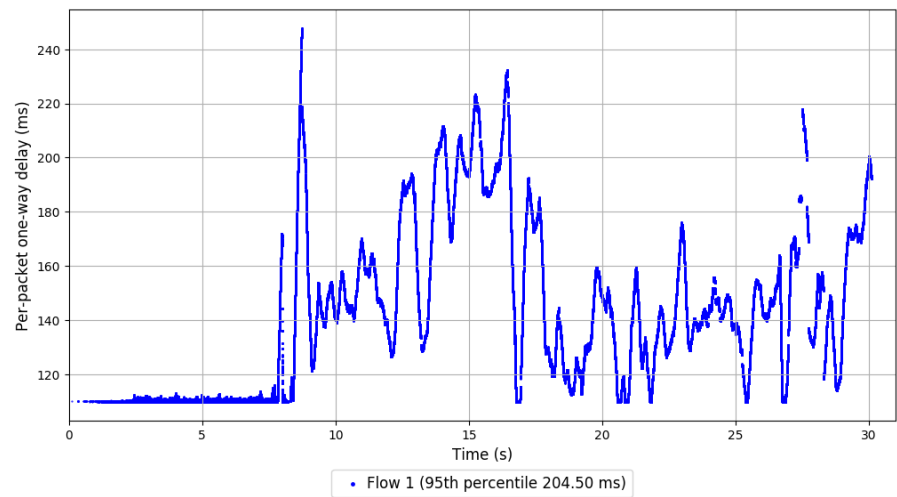
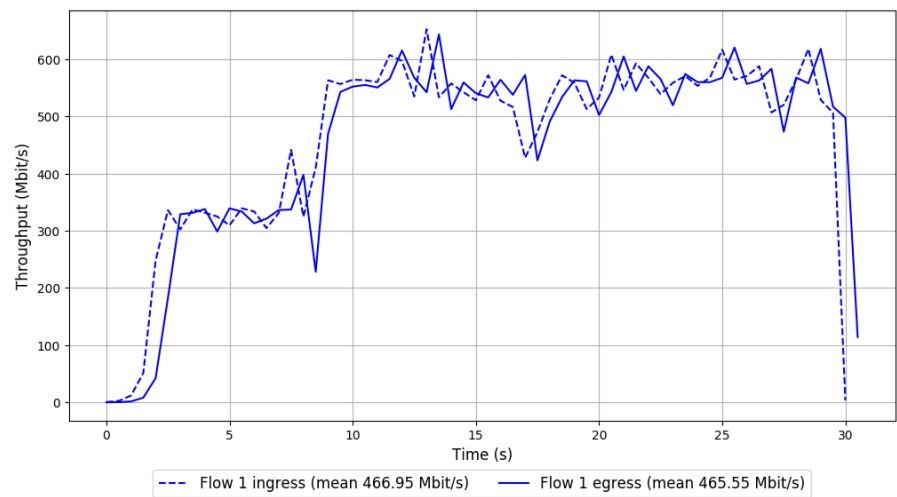
-- Flow 1:

Average throughput: 465.55 Mbit/s

95th percentile per-packet one-way delay: 204.497 ms

Loss rate: 0.30%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-01-17 06:04:58

End at: 2019-01-17 06:05:28

Local clock offset: 0.032 ms

Remote clock offset: 0.205 ms

Below is generated by plot.py at 2019-01-17 08:21:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 456.64 Mbit/s

95th percentile per-packet one-way delay: 205.428 ms

Loss rate: 0.26%

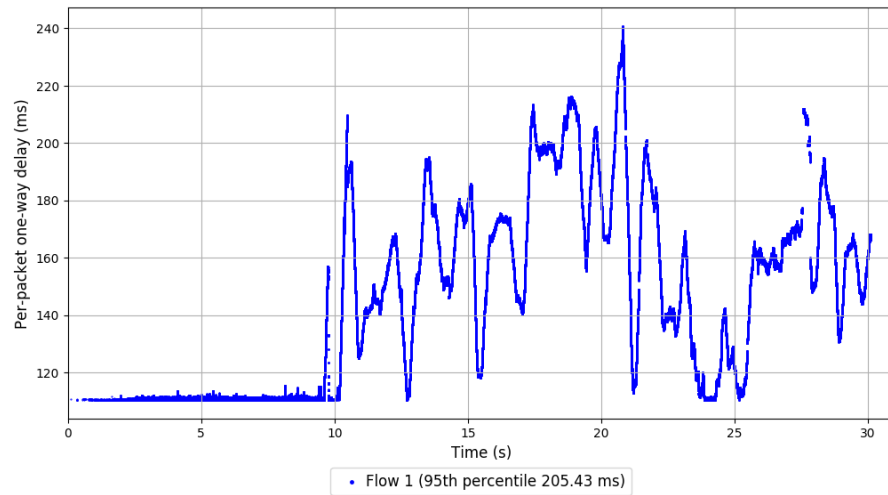
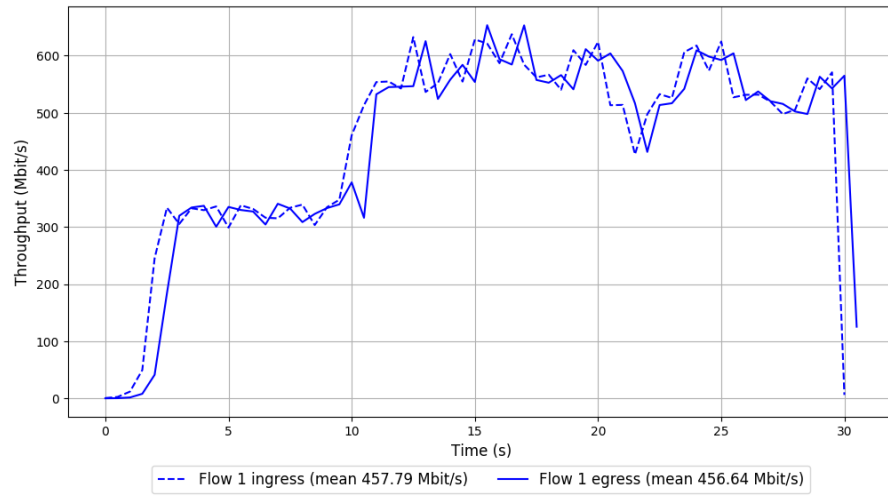
-- Flow 1:

Average throughput: 456.64 Mbit/s

95th percentile per-packet one-way delay: 205.428 ms

Loss rate: 0.26%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-01-17 06:35:57

End at: 2019-01-17 06:36:27

Local clock offset: 0.582 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2019-01-17 08:21:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 476.44 Mbit/s

95th percentile per-packet one-way delay: 169.100 ms

Loss rate: 0.06%

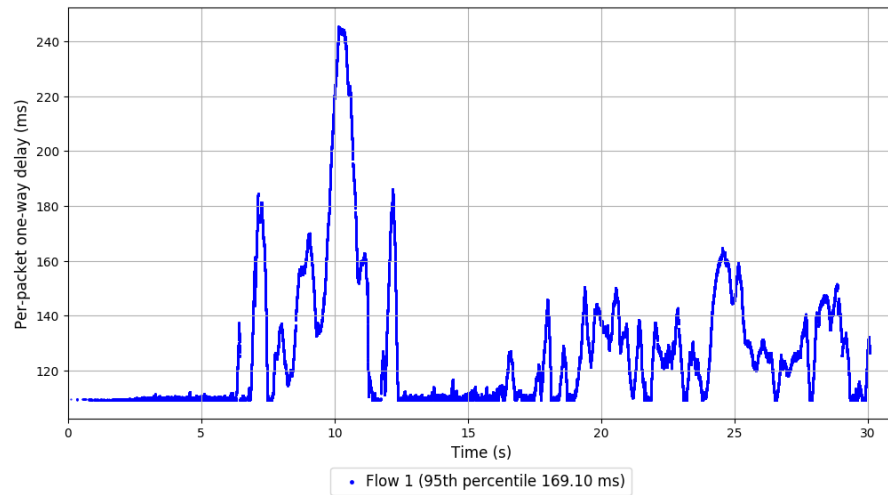
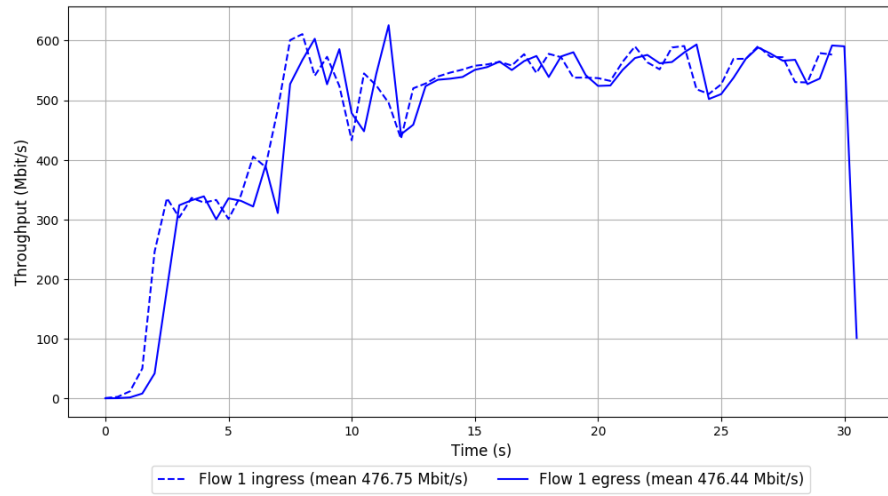
-- Flow 1:

Average throughput: 476.44 Mbit/s

95th percentile per-packet one-way delay: 169.100 ms

Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link

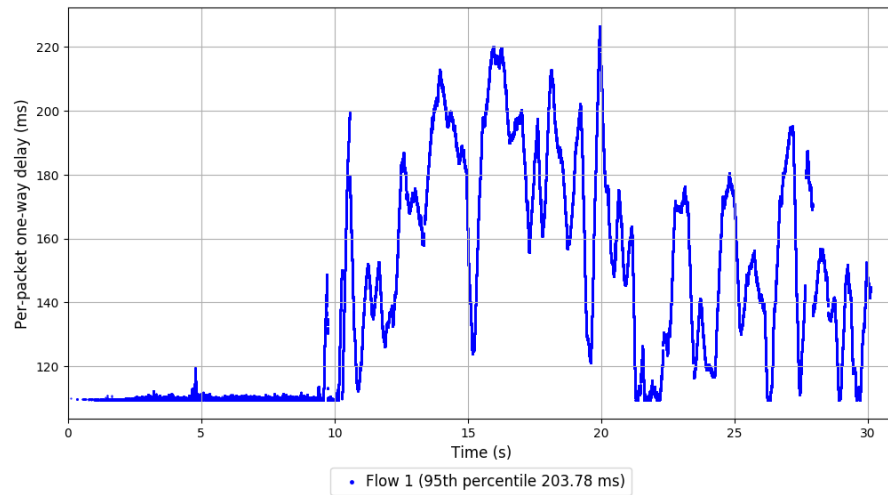
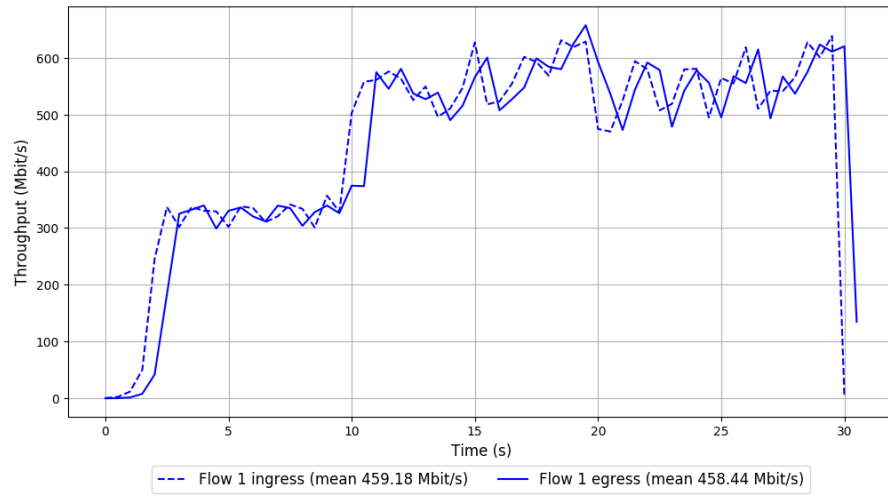


Run 4: Statistics of TCP Cubic

Start at: 2019-01-17 07:07:20
End at: 2019-01-17 07:07:50
Local clock offset: -0.526 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2019-01-17 08:21:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 458.44 Mbit/s
95th percentile per-packet one-way delay: 203.782 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 458.44 Mbit/s
95th percentile per-packet one-way delay: 203.782 ms
Loss rate: 0.16%

Run 4: Report of TCP Cubic — Data Link

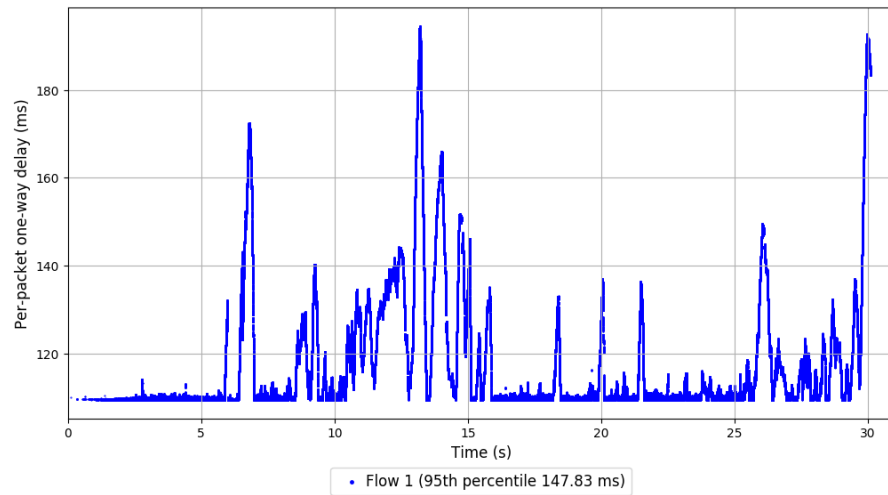
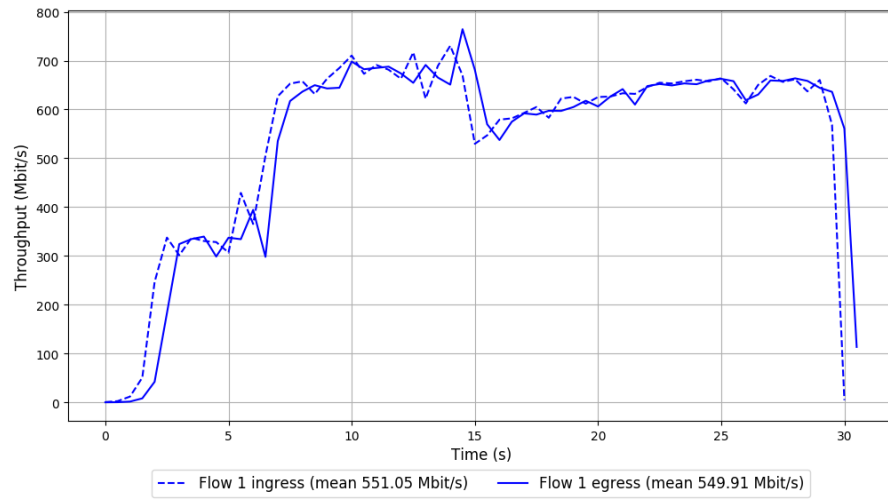


Run 5: Statistics of TCP Cubic

Start at: 2019-01-17 07:38:39
End at: 2019-01-17 07:39:09
Local clock offset: -0.508 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2019-01-17 08:23:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 549.91 Mbit/s
95th percentile per-packet one-way delay: 147.826 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 549.91 Mbit/s
95th percentile per-packet one-way delay: 147.826 ms
Loss rate: 0.20%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-01-17 05:37:44

End at: 2019-01-17 05:38:14

Local clock offset: 0.728 ms

Remote clock offset: 0.71 ms

Below is generated by plot.py at 2019-01-17 08:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 917.23 Mbit/s

95th percentile per-packet one-way delay: 156.631 ms

Loss rate: 0.42%

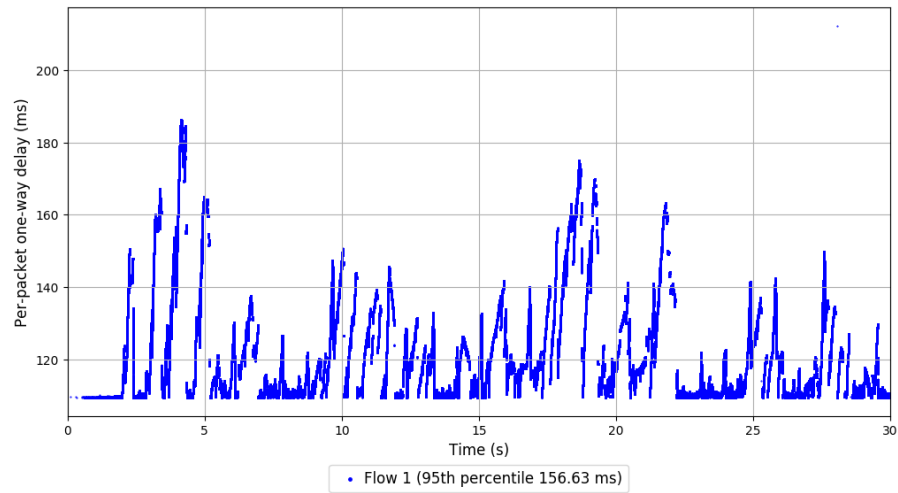
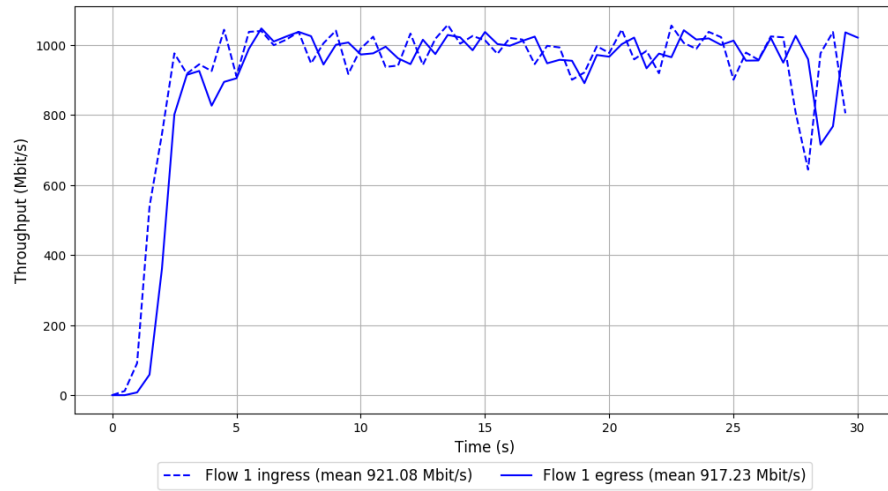
-- Flow 1:

Average throughput: 917.23 Mbit/s

95th percentile per-packet one-way delay: 156.631 ms

Loss rate: 0.42%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-01-17 06:09:03

End at: 2019-01-17 06:09:33

Local clock offset: 0.164 ms

Remote clock offset: 0.236 ms

Below is generated by plot.py at 2019-01-17 08:44:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 932.74 Mbit/s

95th percentile per-packet one-way delay: 112.176 ms

Loss rate: 0.22%

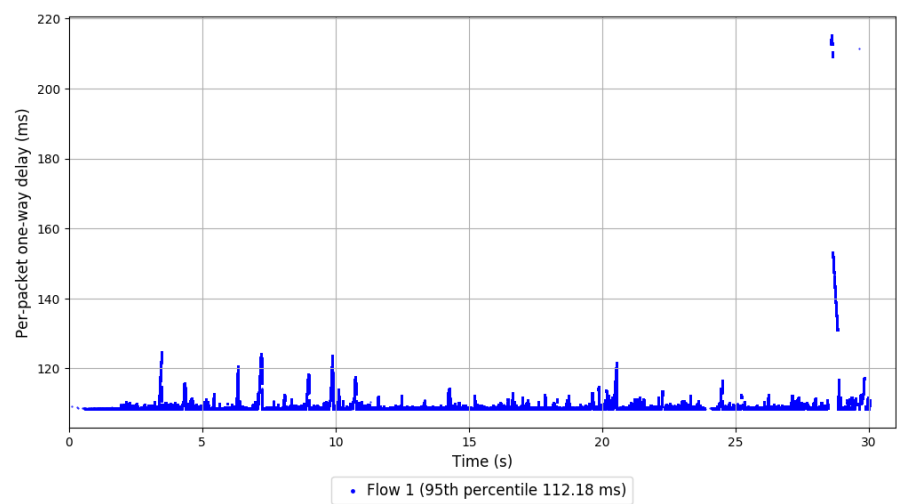
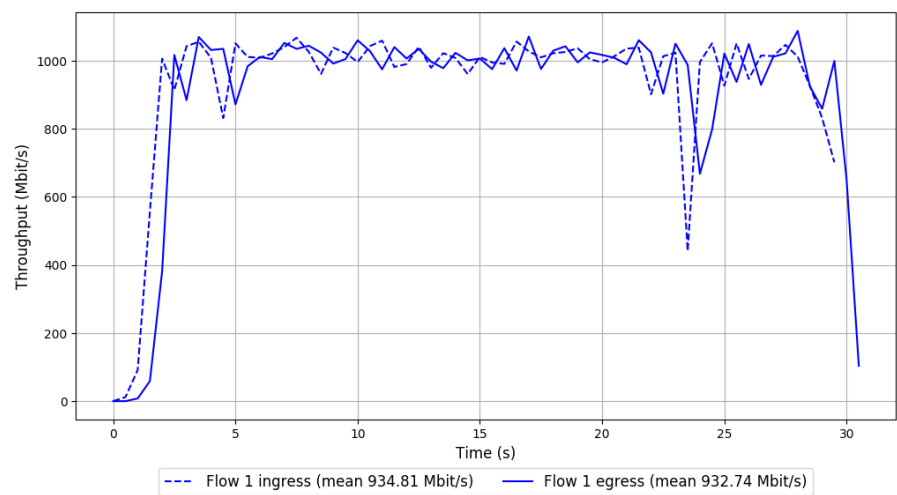
-- Flow 1:

Average throughput: 932.74 Mbit/s

95th percentile per-packet one-way delay: 112.176 ms

Loss rate: 0.22%

Run 2: Report of FillP — Data Link

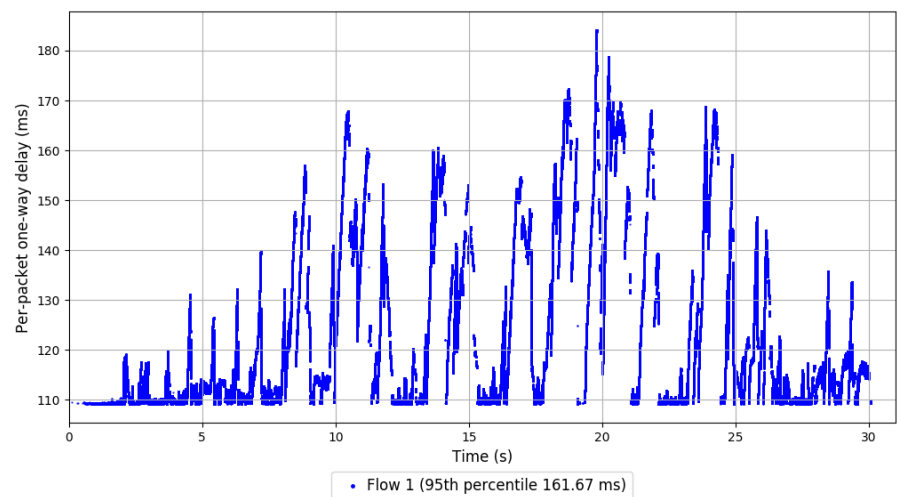
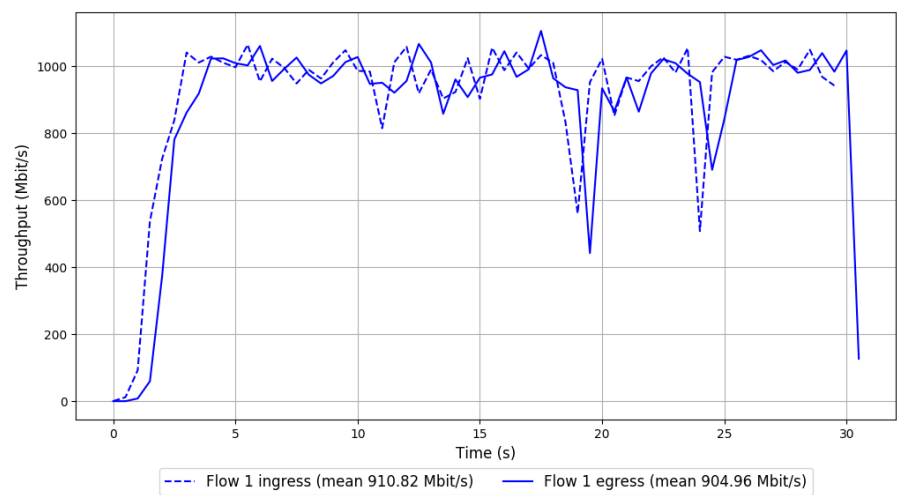


Run 3: Statistics of FillP

Start at: 2019-01-17 06:40:07
End at: 2019-01-17 06:40:38
Local clock offset: 0.822 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2019-01-17 08:44:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 904.96 Mbit/s
95th percentile per-packet one-way delay: 161.666 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 904.96 Mbit/s
95th percentile per-packet one-way delay: 161.666 ms
Loss rate: 0.64%

Run 3: Report of FillP — Data Link

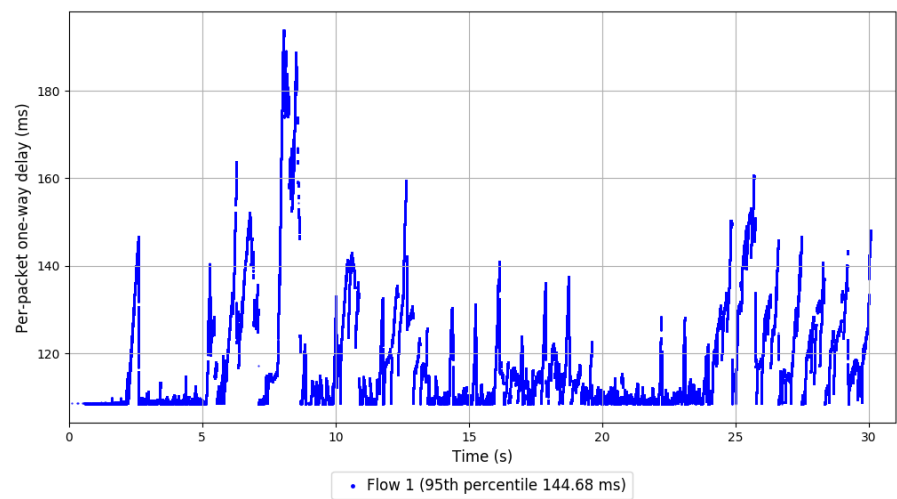
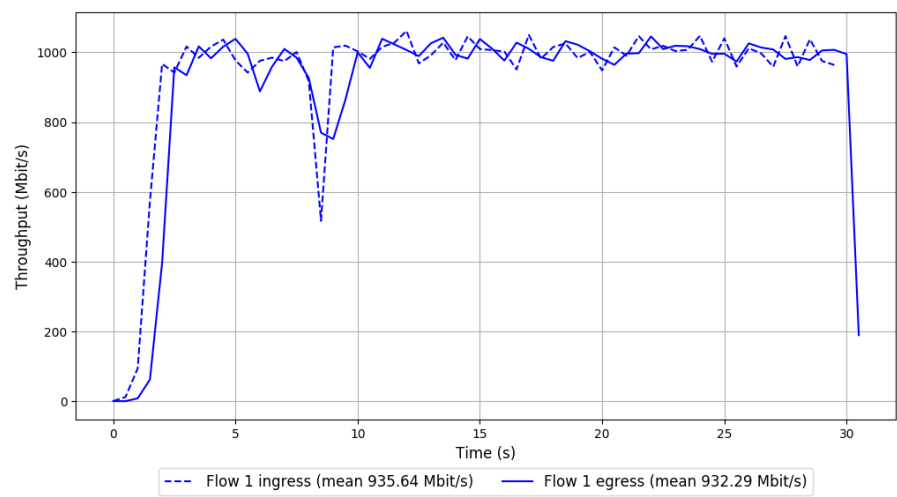


Run 4: Statistics of FillP

Start at: 2019-01-17 07:11:32
End at: 2019-01-17 07:12:02
Local clock offset: -0.038 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2019-01-17 08:45:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 932.29 Mbit/s
95th percentile per-packet one-way delay: 144.678 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 932.29 Mbit/s
95th percentile per-packet one-way delay: 144.678 ms
Loss rate: 0.36%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-01-17 07:42:52

End at: 2019-01-17 07:43:22

Local clock offset: -0.918 ms

Remote clock offset: 0.375 ms

Below is generated by plot.py at 2019-01-17 08:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 908.47 Mbit/s

95th percentile per-packet one-way delay: 164.808 ms

Loss rate: 1.65%

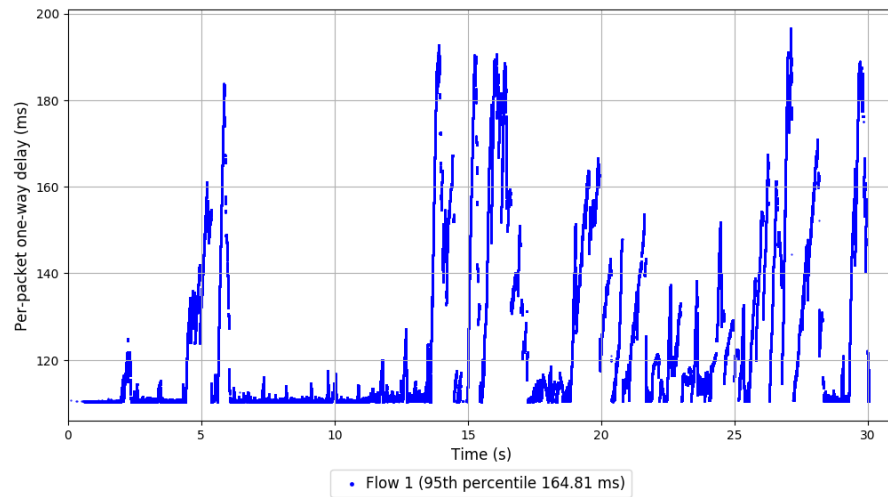
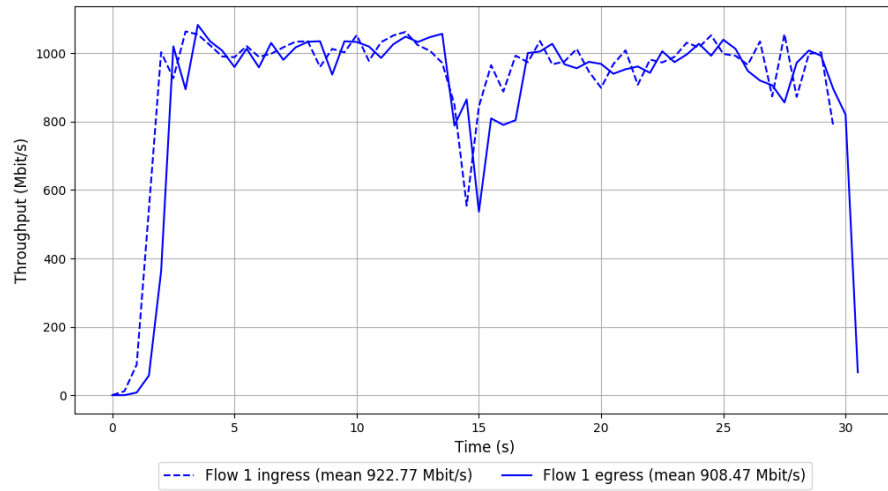
-- Flow 1:

Average throughput: 908.47 Mbit/s

95th percentile per-packet one-way delay: 164.808 ms

Loss rate: 1.65%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-01-17 05:41:00

End at: 2019-01-17 05:41:30

Local clock offset: -0.543 ms

Remote clock offset: 0.774 ms

Below is generated by plot.py at 2019-01-17 08:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.42 Mbit/s

95th percentile per-packet one-way delay: 144.367 ms

Loss rate: 0.10%

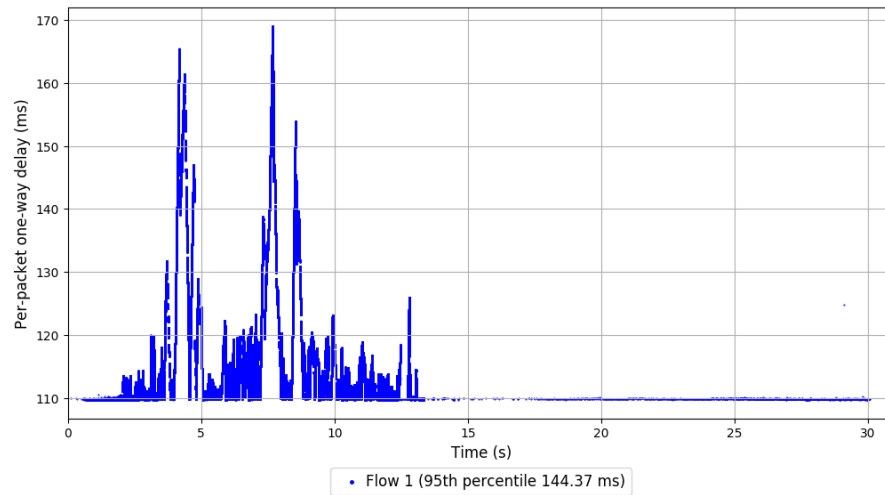
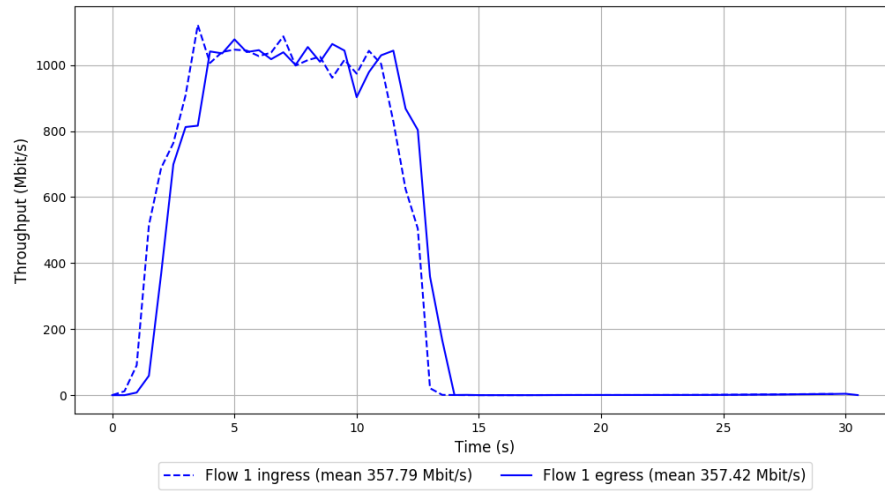
-- Flow 1:

Average throughput: 357.42 Mbit/s

95th percentile per-packet one-way delay: 144.367 ms

Loss rate: 0.10%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-01-17 06:12:22

End at: 2019-01-17 06:12:52

Local clock offset: 0.091 ms

Remote clock offset: 0.286 ms

Below is generated by plot.py at 2019-01-17 08:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.42 Mbit/s

95th percentile per-packet one-way delay: 110.803 ms

Loss rate: 0.00%

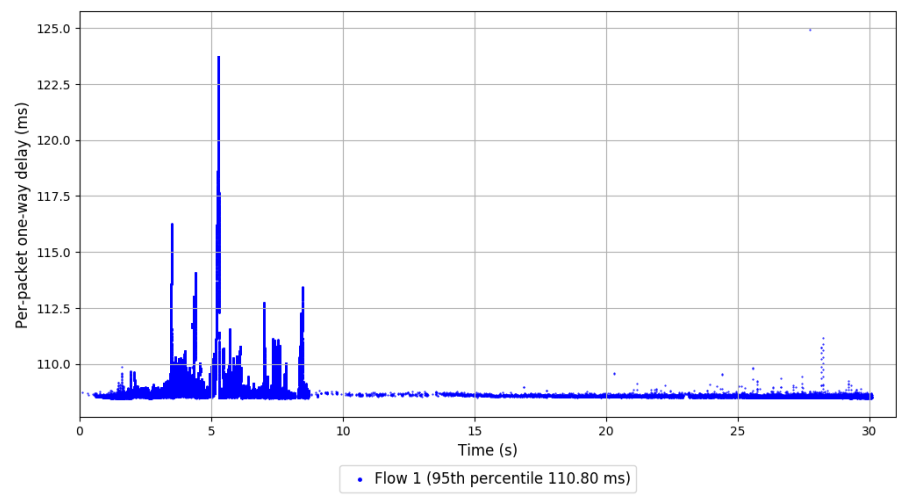
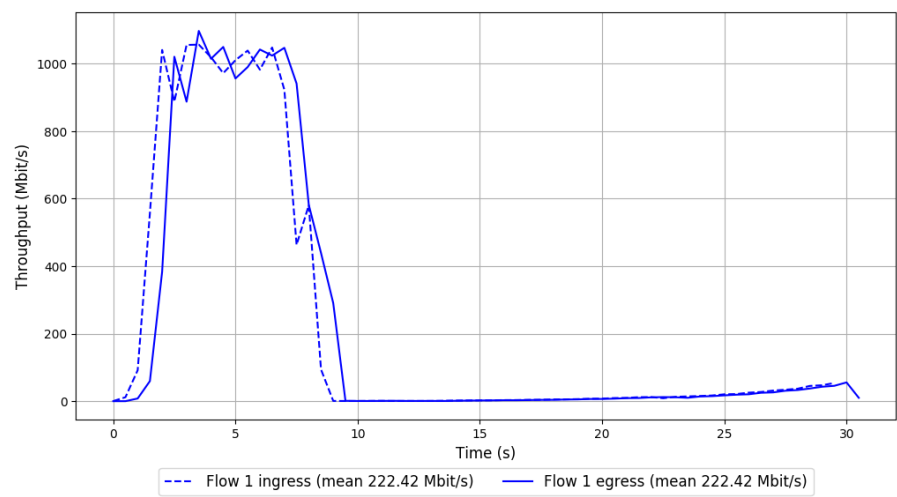
-- Flow 1:

Average throughput: 222.42 Mbit/s

95th percentile per-packet one-way delay: 110.803 ms

Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link

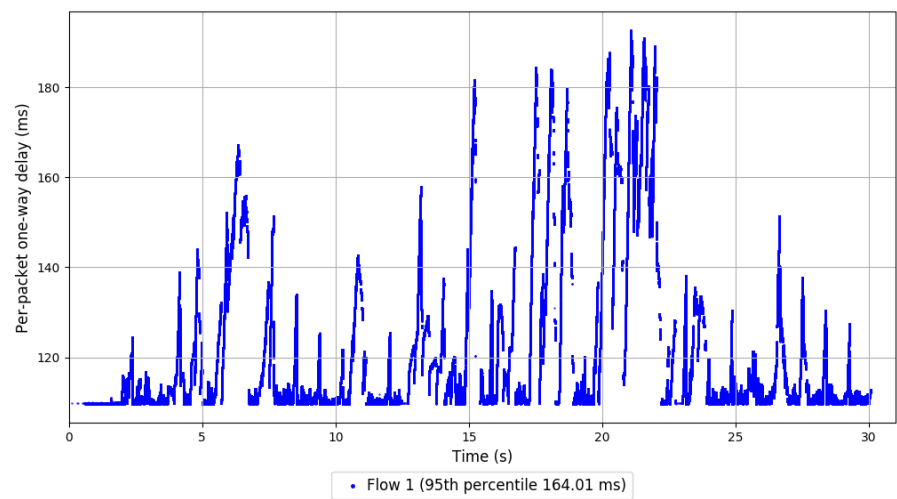
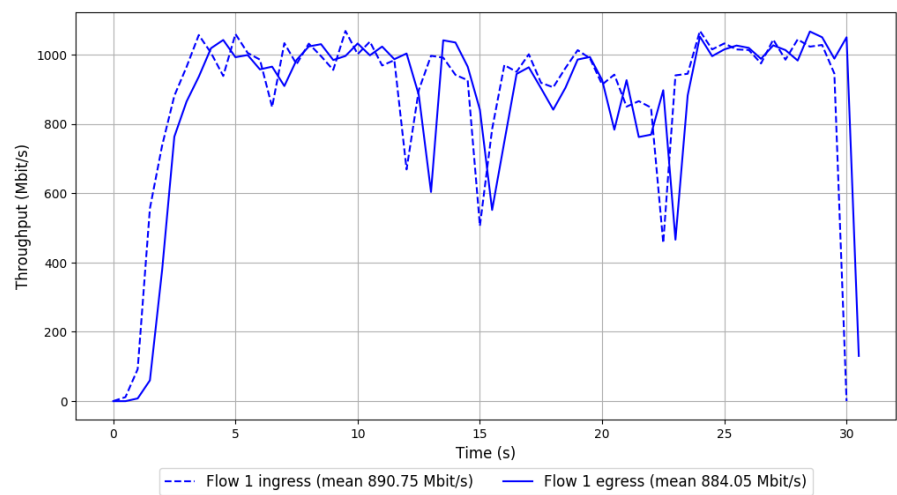


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-17 06:43:31
End at: 2019-01-17 06:44:01
Local clock offset: -0.766 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2019-01-17 08:49:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 884.05 Mbit/s
95th percentile per-packet one-way delay: 164.007 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 884.05 Mbit/s
95th percentile per-packet one-way delay: 164.007 ms
Loss rate: 1.08%

Run 3: Report of FillP-Sheep — Data Link

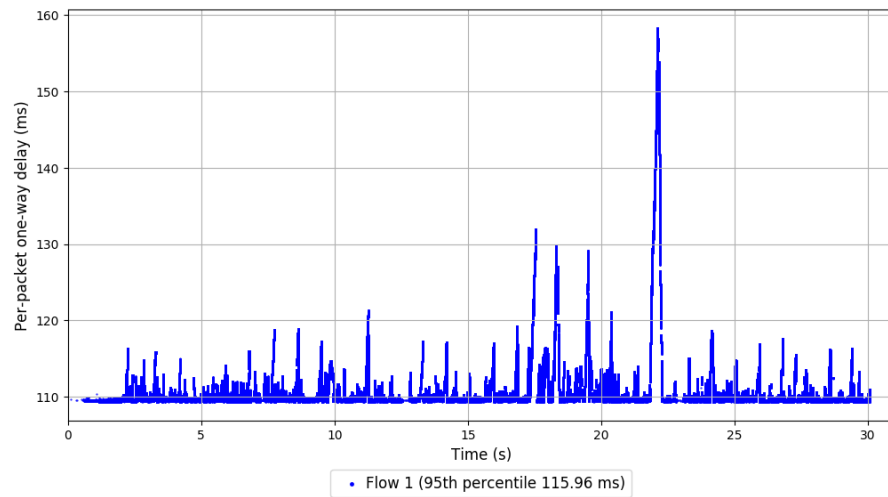
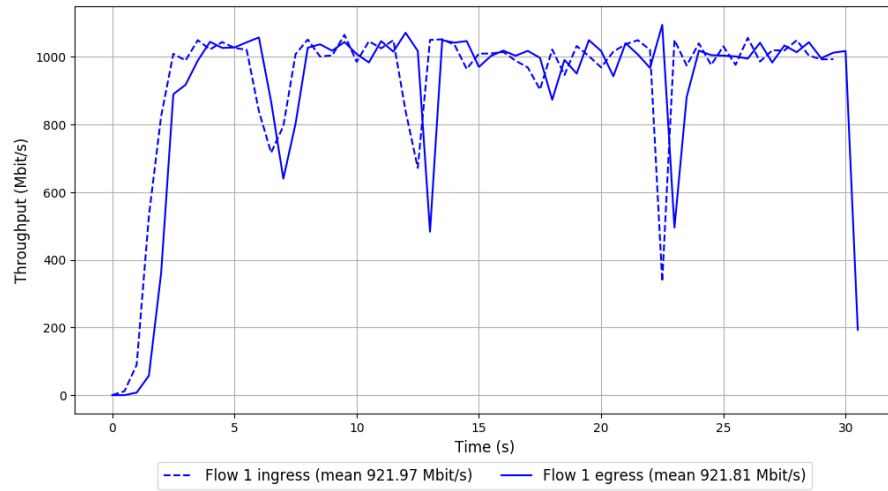


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-17 07:14:55
End at: 2019-01-17 07:15:25
Local clock offset: -0.121 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2019-01-17 08:53:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 921.81 Mbit/s
95th percentile per-packet one-way delay: 115.959 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 921.81 Mbit/s
95th percentile per-packet one-way delay: 115.959 ms
Loss rate: 0.02%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-01-17 07:46:16

End at: 2019-01-17 07:46:46

Local clock offset: -1.465 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2019-01-17 08:56:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 926.12 Mbit/s

95th percentile per-packet one-way delay: 121.901 ms

Loss rate: 0.04%

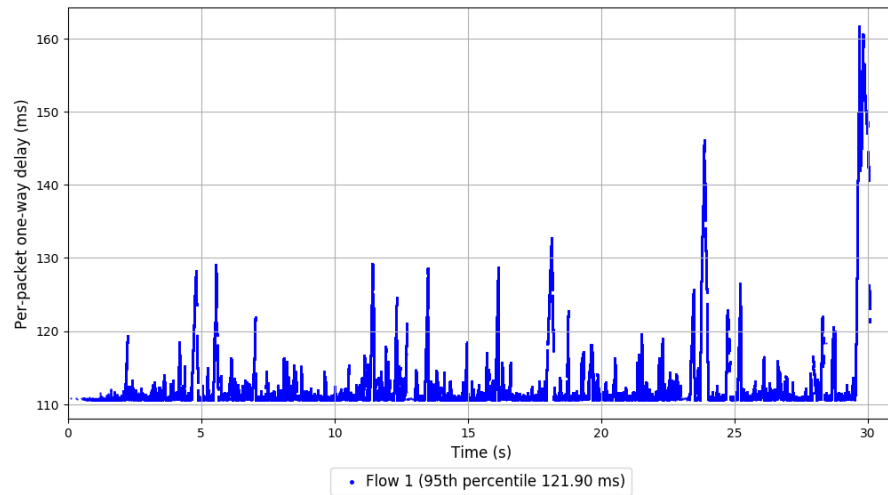
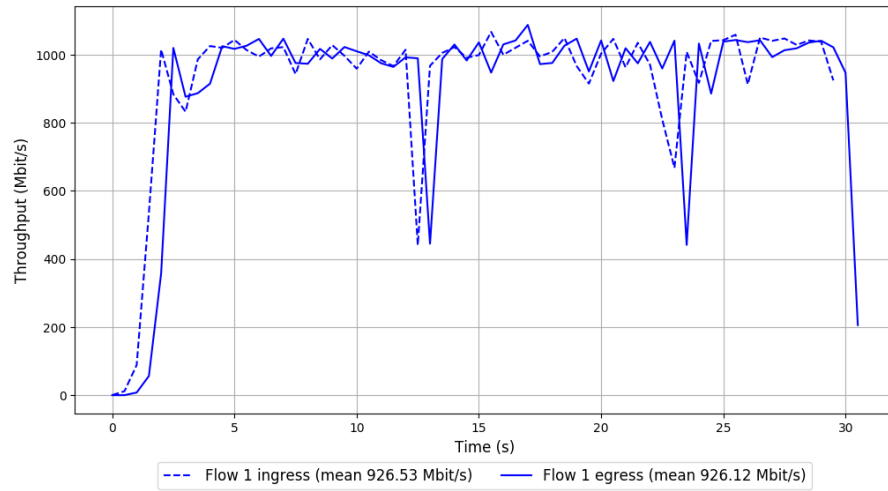
-- Flow 1:

Average throughput: 926.12 Mbit/s

95th percentile per-packet one-way delay: 121.901 ms

Loss rate: 0.04%

Run 5: Report of FillP-Sheep — Data Link

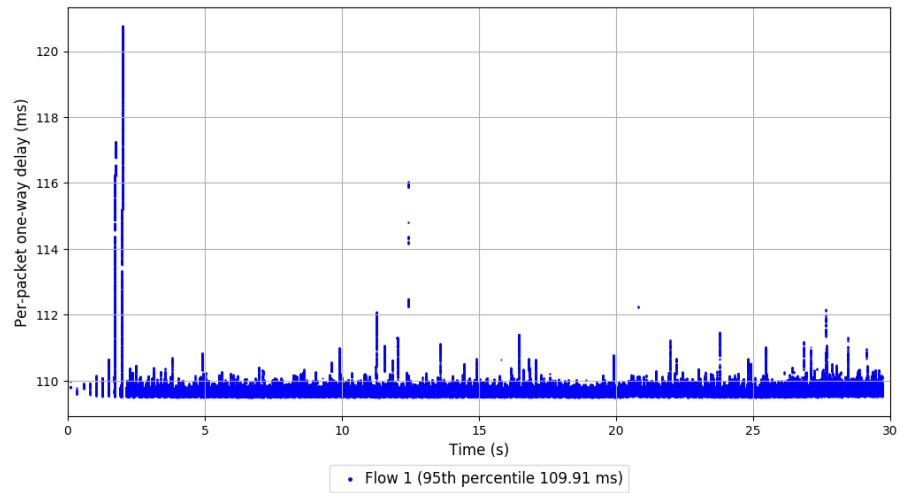
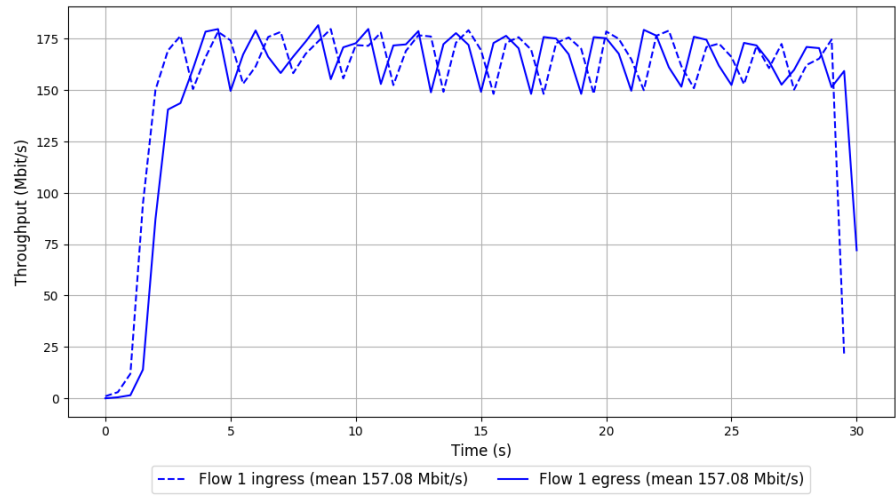


```
Run 1: Statistics of Indigo

Start at: 2019-01-17 05:39:35
End at: 2019-01-17 05:40:05
Local clock offset: 0.664 ms
Remote clock offset: 0.721 ms

# Below is generated by plot.py at 2019-01-17 08:56:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.08 Mbit/s
95th percentile per-packet one-way delay: 109.906 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.08 Mbit/s
95th percentile per-packet one-way delay: 109.906 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-01-17 06:10:56

End at: 2019-01-17 06:11:26

Local clock offset: -1.059 ms

Remote clock offset: 0.436 ms

Below is generated by plot.py at 2019-01-17 08:56:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.43 Mbit/s

95th percentile per-packet one-way delay: 110.111 ms

Loss rate: 0.00%

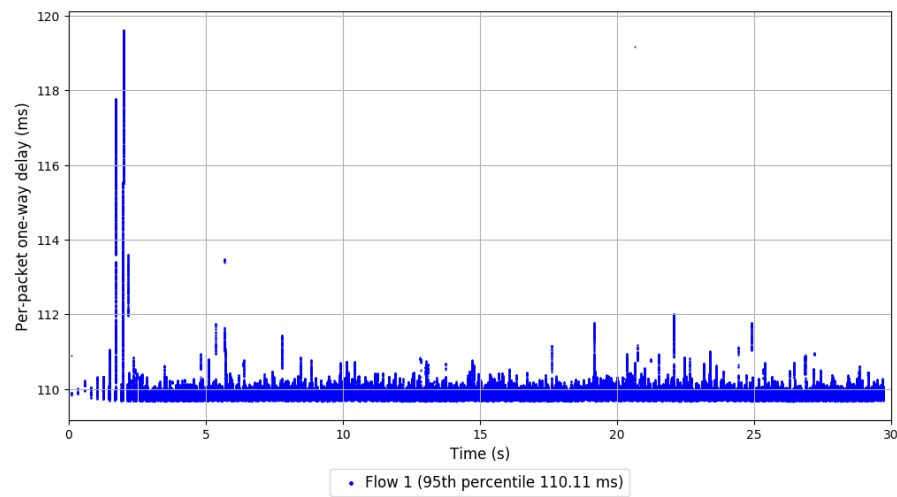
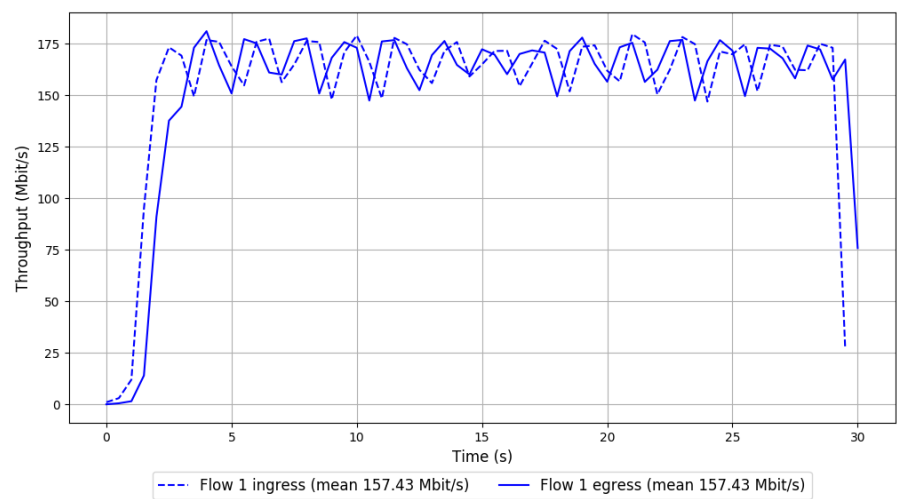
-- Flow 1:

Average throughput: 157.43 Mbit/s

95th percentile per-packet one-way delay: 110.111 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-01-17 06:41:58

End at: 2019-01-17 06:42:28

Local clock offset: -0.802 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2019-01-17 08:56:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.04 Mbit/s

95th percentile per-packet one-way delay: 111.199 ms

Loss rate: 0.00%

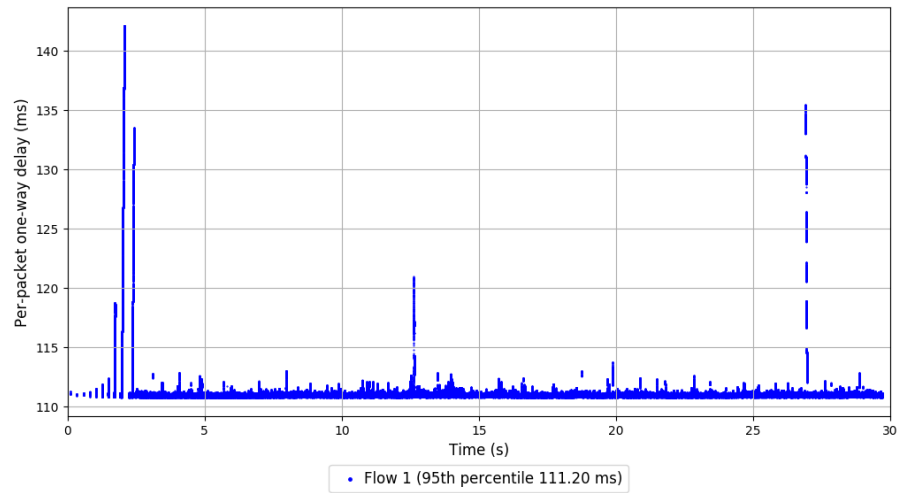
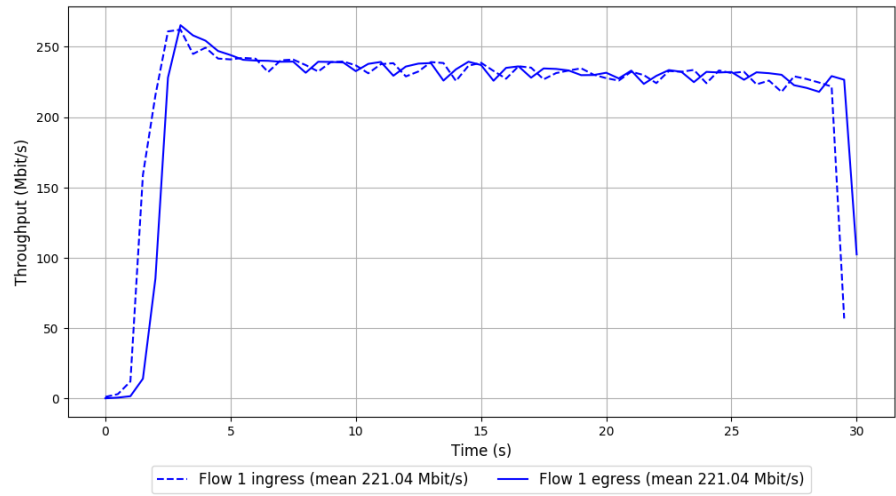
-- Flow 1:

Average throughput: 221.04 Mbit/s

95th percentile per-packet one-way delay: 111.199 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

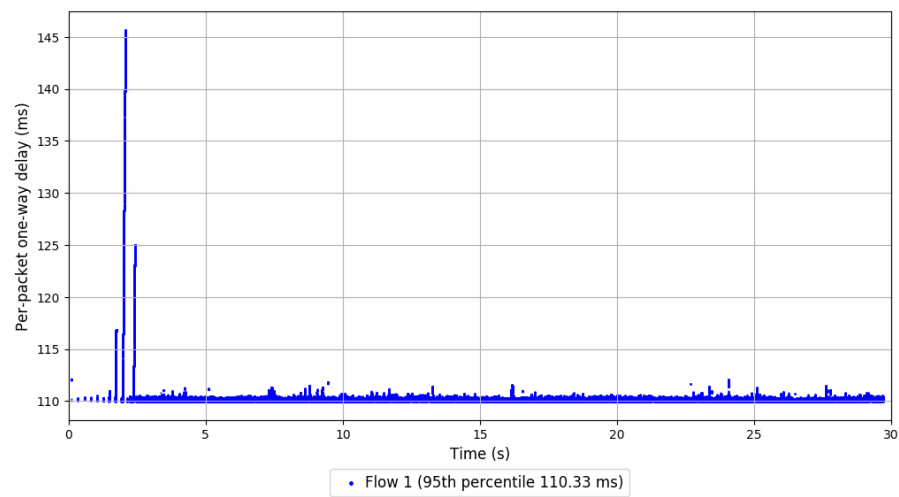
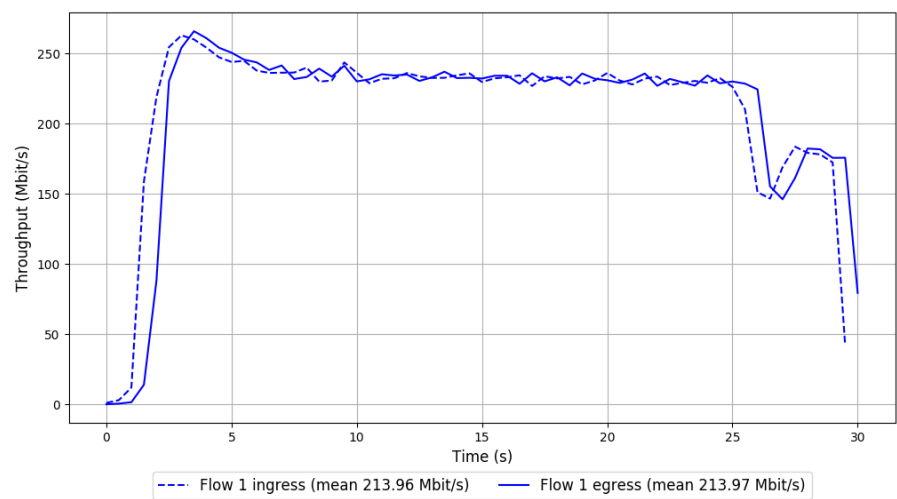


Run 4: Statistics of Indigo

Start at: 2019-01-17 07:13:23
End at: 2019-01-17 07:13:53
Local clock offset: -0.708 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2019-01-17 08:56:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 213.97 Mbit/s
95th percentile per-packet one-way delay: 110.331 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.97 Mbit/s
95th percentile per-packet one-way delay: 110.331 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-01-17 07:44:44

End at: 2019-01-17 07:45:14

Local clock offset: -0.143 ms

Remote clock offset: 0.35 ms

Below is generated by plot.py at 2019-01-17 08:56:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.42 Mbit/s

95th percentile per-packet one-way delay: 109.802 ms

Loss rate: 0.00%

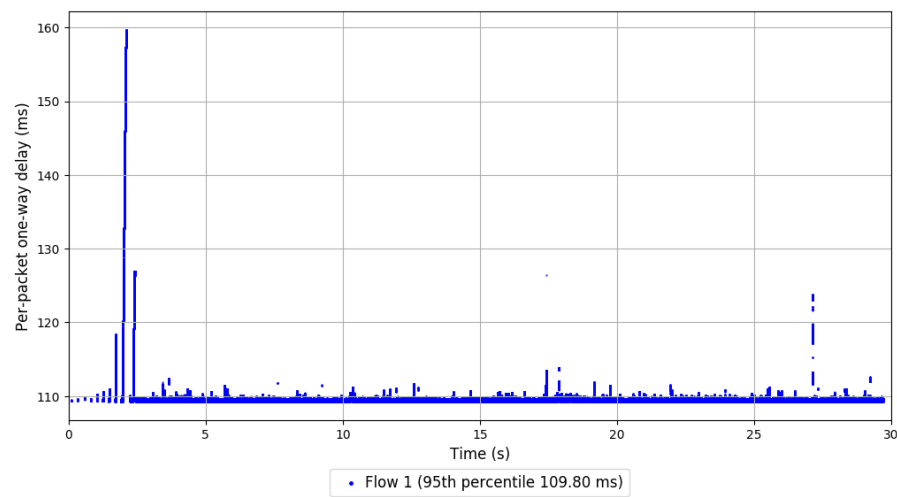
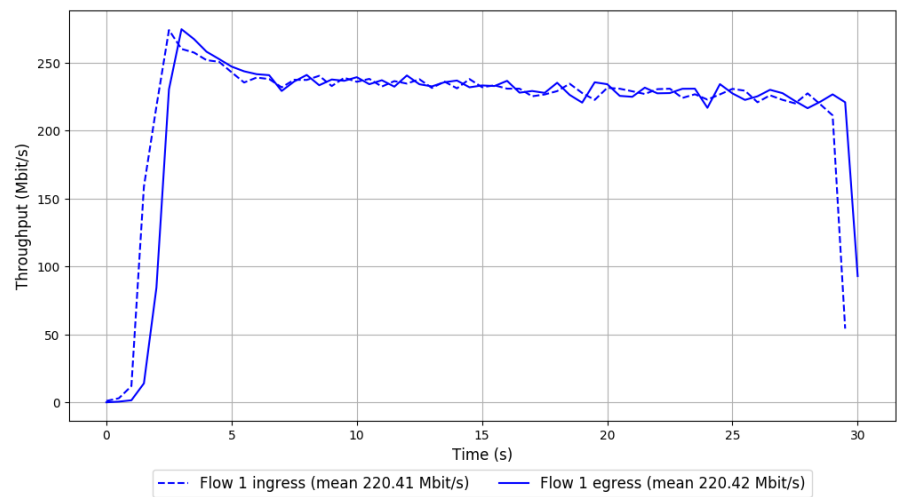
-- Flow 1:

Average throughput: 220.42 Mbit/s

95th percentile per-packet one-way delay: 109.802 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-17 05:12:40

End at: 2019-01-17 05:13:10

Local clock offset: 2.233 ms

Remote clock offset: 1.107 ms

Below is generated by plot.py at 2019-01-17 08:57:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 550.69 Mbit/s

95th percentile per-packet one-way delay: 196.520 ms

Loss rate: 0.61%

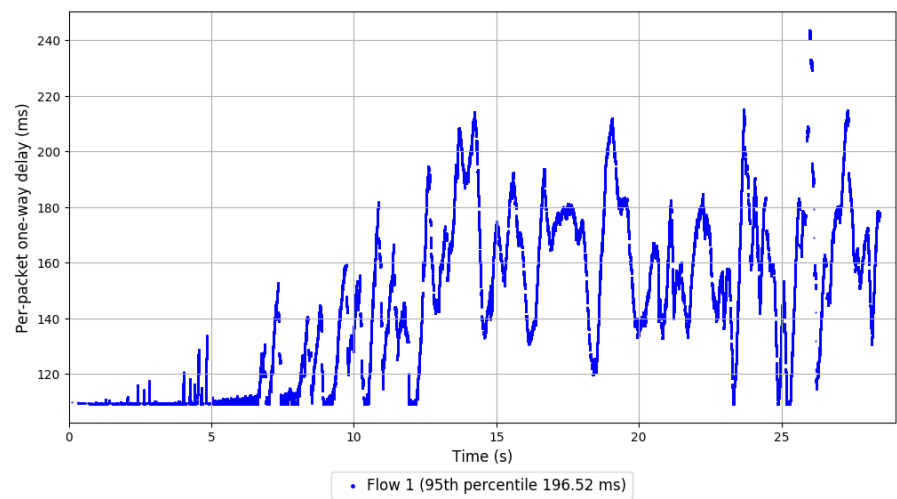
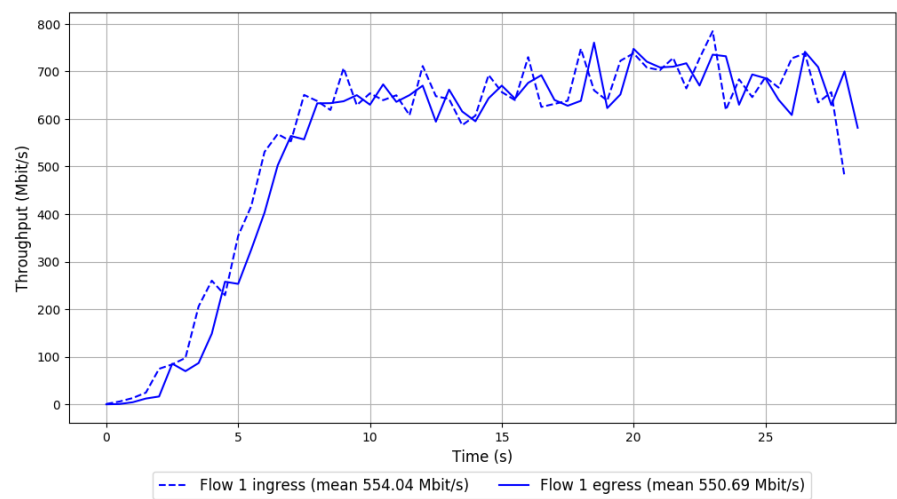
-- Flow 1:

Average throughput: 550.69 Mbit/s

95th percentile per-packet one-way delay: 196.520 ms

Loss rate: 0.61%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-17 05:43:58

End at: 2019-01-17 05:44:28

Local clock offset: 1.231 ms

Remote clock offset: 0.57 ms

Below is generated by plot.py at 2019-01-17 09:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 605.19 Mbit/s

95th percentile per-packet one-way delay: 196.838 ms

Loss rate: 0.79%

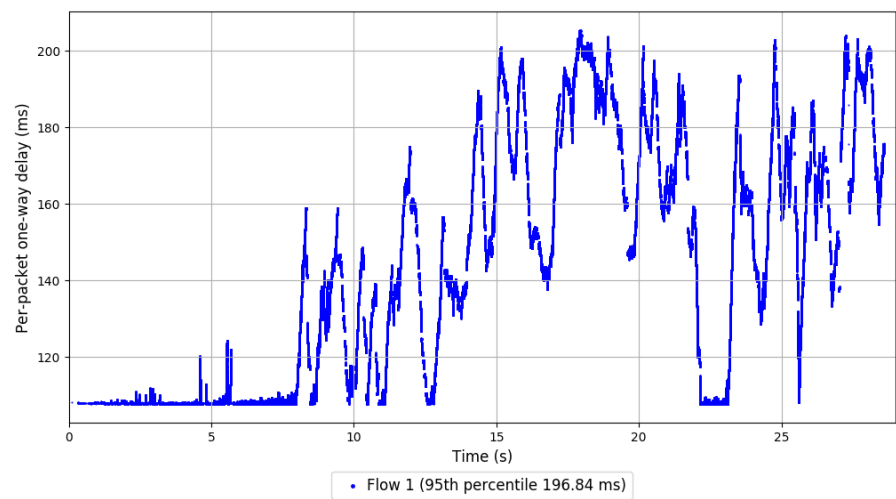
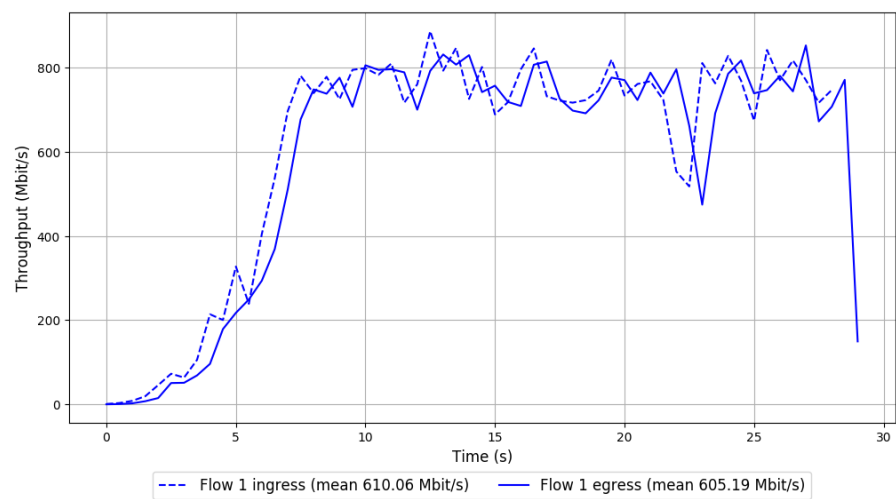
-- Flow 1:

Average throughput: 605.19 Mbit/s

95th percentile per-packet one-way delay: 196.838 ms

Loss rate: 0.79%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-17 06:15:13

End at: 2019-01-17 06:15:43

Local clock offset: -0.353 ms

Remote clock offset: 0.341 ms

Below is generated by plot.py at 2019-01-17 09:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 545.32 Mbit/s

95th percentile per-packet one-way delay: 180.512 ms

Loss rate: 0.15%

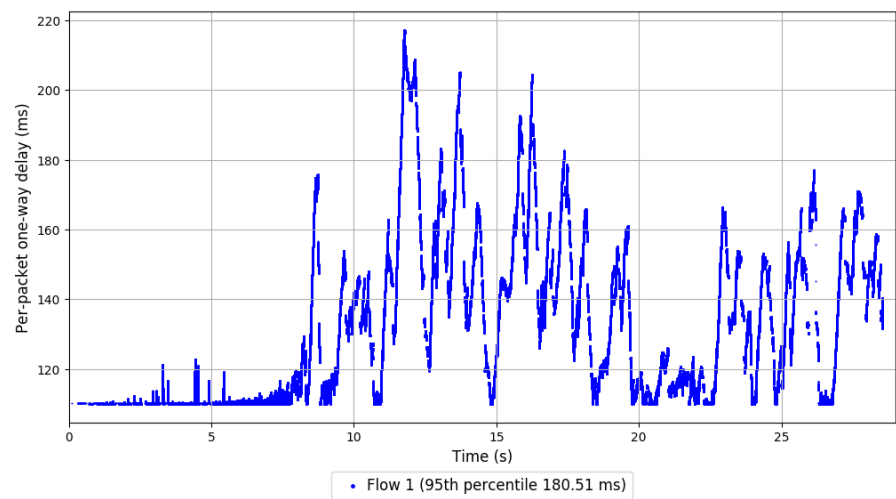
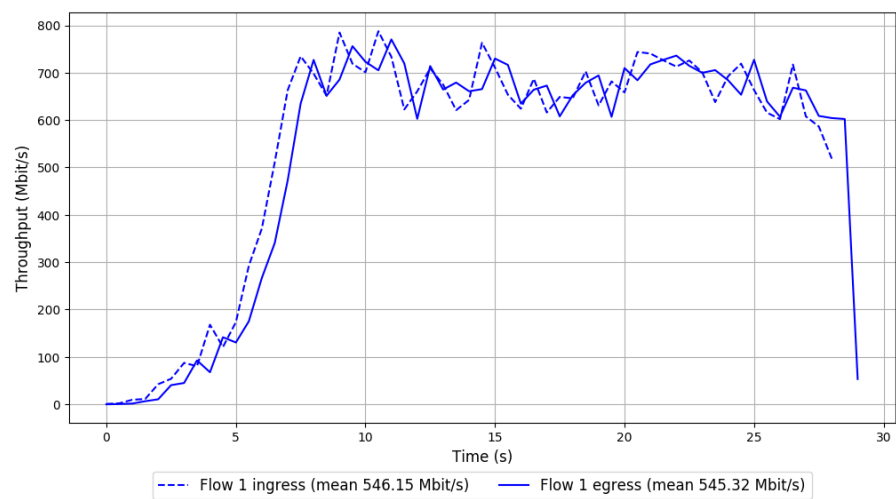
-- Flow 1:

Average throughput: 545.32 Mbit/s

95th percentile per-packet one-way delay: 180.512 ms

Loss rate: 0.15%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-17 06:46:33

End at: 2019-01-17 06:47:03

Local clock offset: 0.367 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2019-01-17 09:06:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 564.68 Mbit/s

95th percentile per-packet one-way delay: 165.957 ms

Loss rate: 0.34%

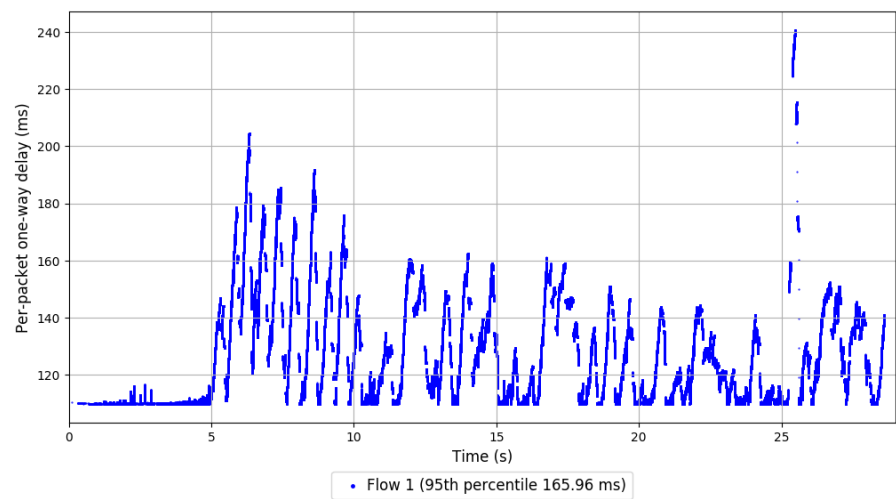
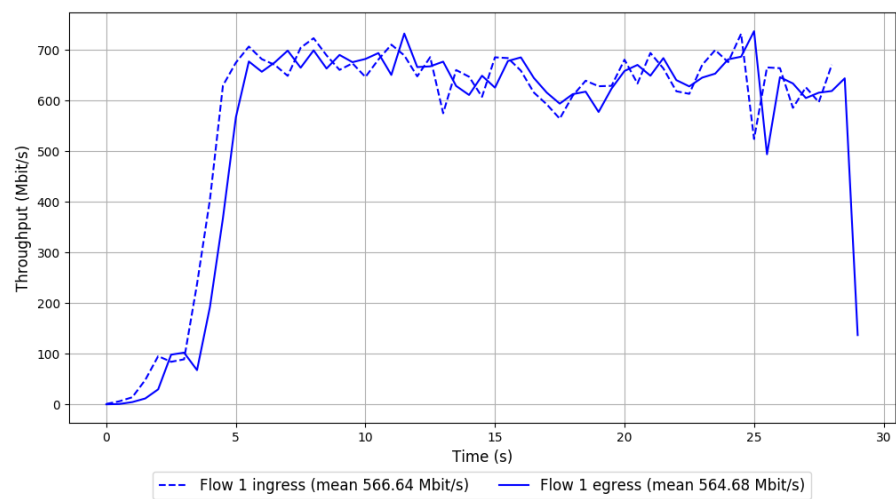
-- Flow 1:

Average throughput: 564.68 Mbit/s

95th percentile per-packet one-way delay: 165.957 ms

Loss rate: 0.34%

Run 4: Report of Indigo-MusesC3 — Data Link

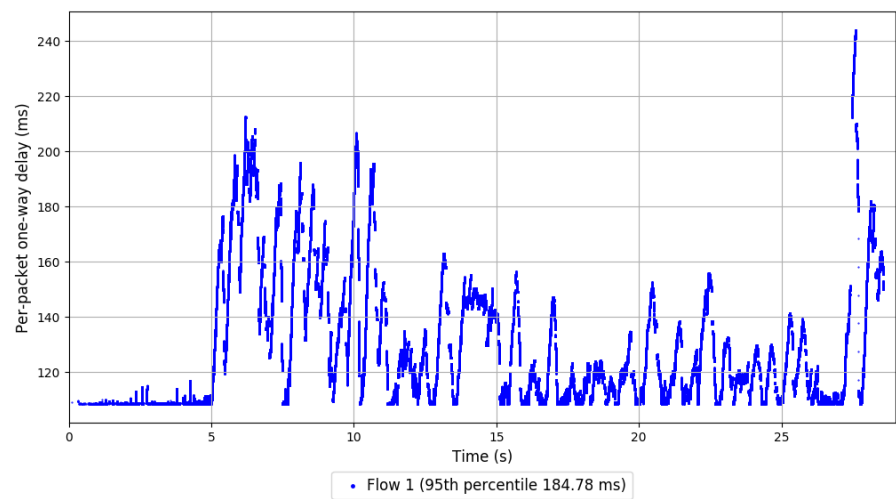
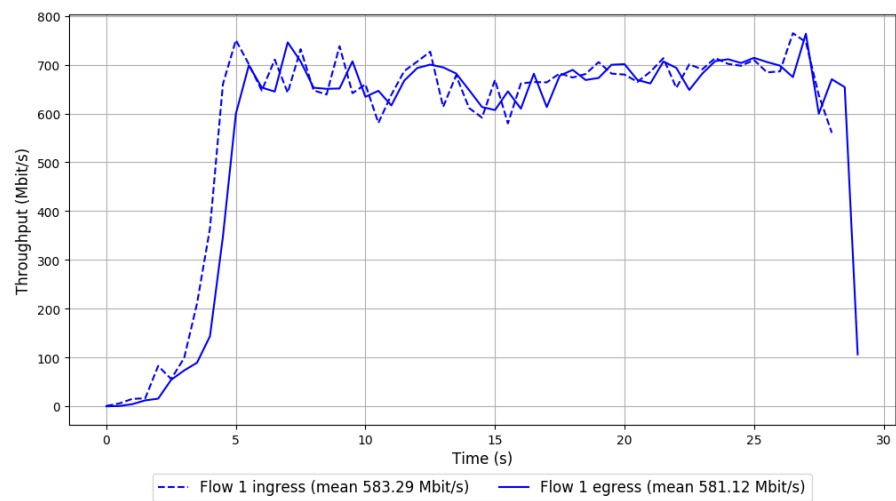


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-17 07:17:58
End at: 2019-01-17 07:18:28
Local clock offset: 0.39 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2019-01-17 09:07:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 581.12 Mbit/s
95th percentile per-packet one-way delay: 184.785 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 581.12 Mbit/s
95th percentile per-packet one-way delay: 184.785 ms
Loss rate: 0.37%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-17 05:17:52

End at: 2019-01-17 05:18:22

Local clock offset: 1.485 ms

Remote clock offset: 1.042 ms

Below is generated by plot.py at 2019-01-17 09:07:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 571.55 Mbit/s

95th percentile per-packet one-way delay: 203.407 ms

Loss rate: 2.49%

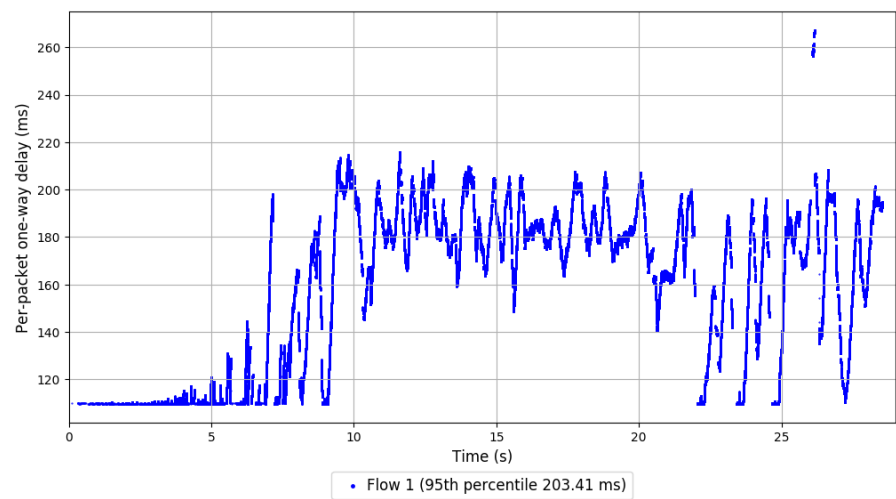
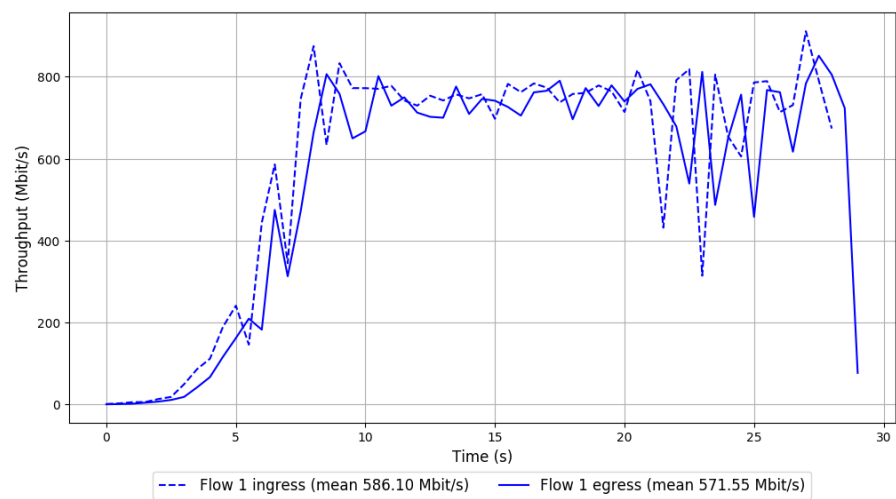
-- Flow 1:

Average throughput: 571.55 Mbit/s

95th percentile per-packet one-way delay: 203.407 ms

Loss rate: 2.49%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-17 05:49:10

End at: 2019-01-17 05:49:40

Local clock offset: 1.038 ms

Remote clock offset: 0.348 ms

Below is generated by plot.py at 2019-01-17 09:07:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.37 Mbit/s

95th percentile per-packet one-way delay: 216.582 ms

Loss rate: 6.02%

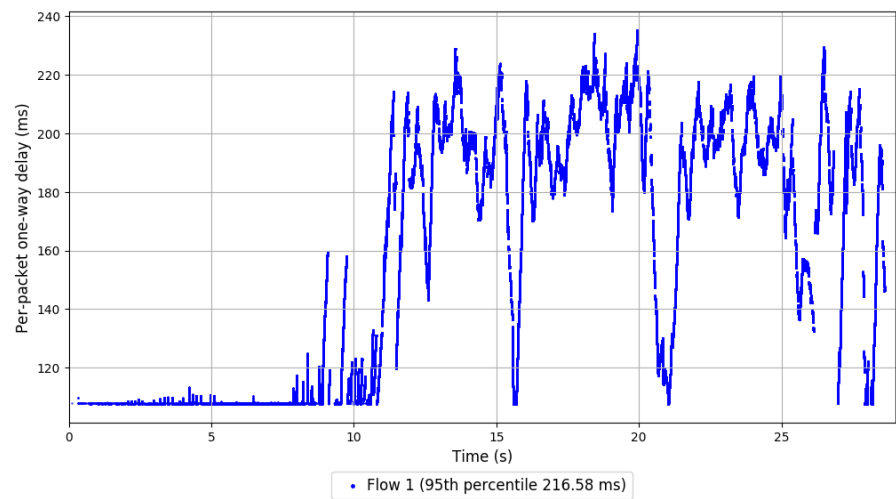
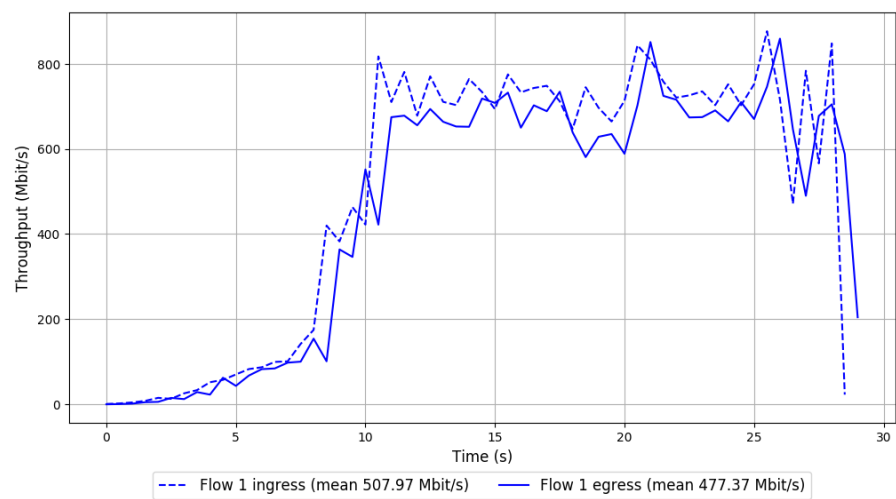
-- Flow 1:

Average throughput: 477.37 Mbit/s

95th percentile per-packet one-way delay: 216.582 ms

Loss rate: 6.02%

Run 2: Report of Indigo-MusesC5 — Data Link

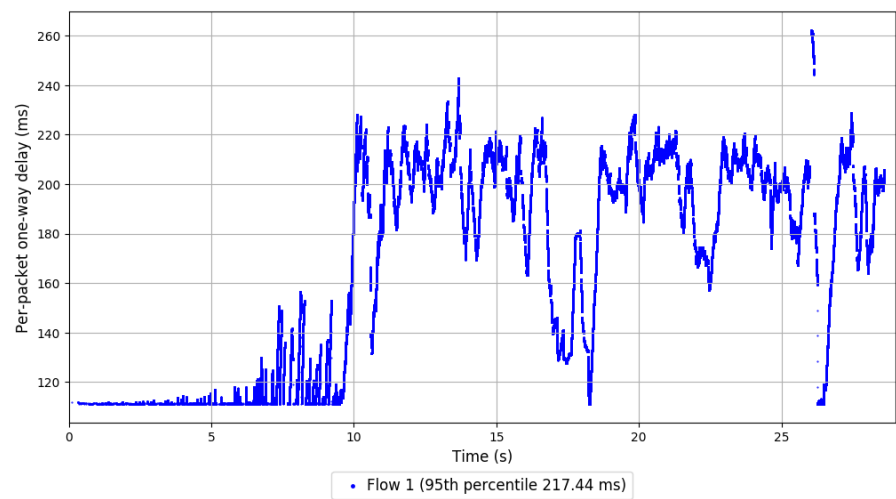
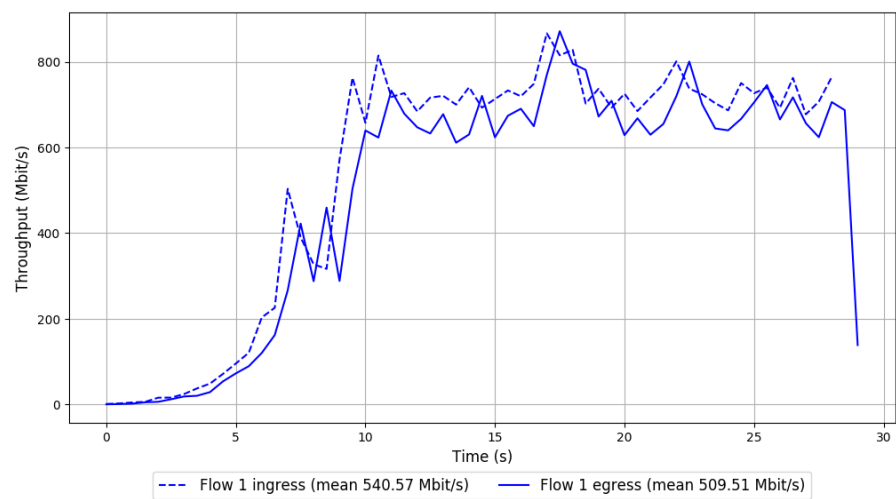


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-17 06:20:22
End at: 2019-01-17 06:20:52
Local clock offset: -0.826 ms
Remote clock offset: -0.217 ms

Below is generated by plot.py at 2019-01-17 09:08:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 509.51 Mbit/s
95th percentile per-packet one-way delay: 217.436 ms
Loss rate: 5.75%
-- Flow 1:
Average throughput: 509.51 Mbit/s
95th percentile per-packet one-way delay: 217.436 ms
Loss rate: 5.75%

Run 3: Report of Indigo-MusesC5 — Data Link

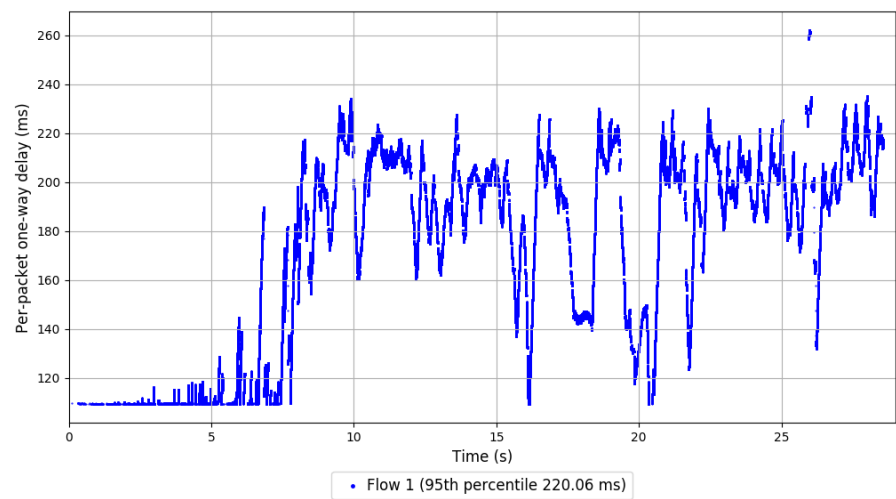
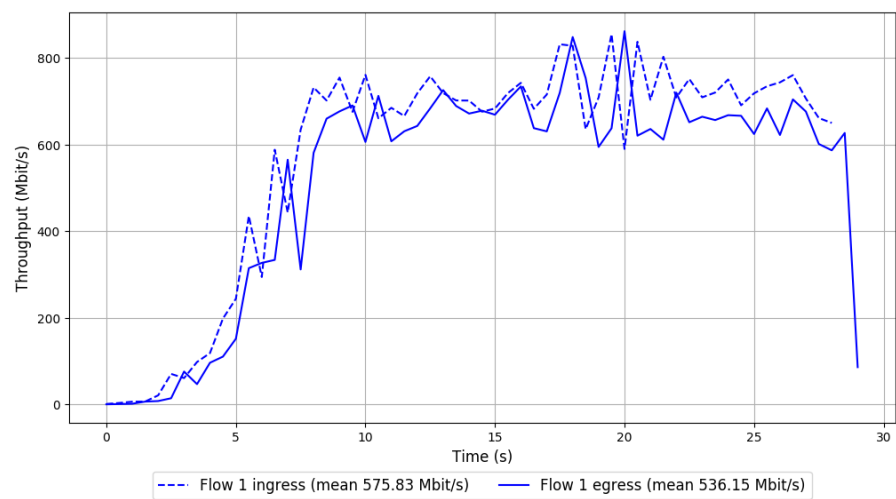


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-17 06:51:49
End at: 2019-01-17 06:52:19
Local clock offset: -0.154 ms
Remote clock offset: -0.358 ms

Below is generated by plot.py at 2019-01-17 09:10:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 536.15 Mbit/s
95th percentile per-packet one-way delay: 220.058 ms
Loss rate: 6.89%
-- Flow 1:
Average throughput: 536.15 Mbit/s
95th percentile per-packet one-way delay: 220.058 ms
Loss rate: 6.89%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-17 07:23:09

End at: 2019-01-17 07:23:39

Local clock offset: -1.07 ms

Remote clock offset: -0.466 ms

Below is generated by plot.py at 2019-01-17 09:14:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 564.27 Mbit/s

95th percentile per-packet one-way delay: 196.718 ms

Loss rate: 1.69%

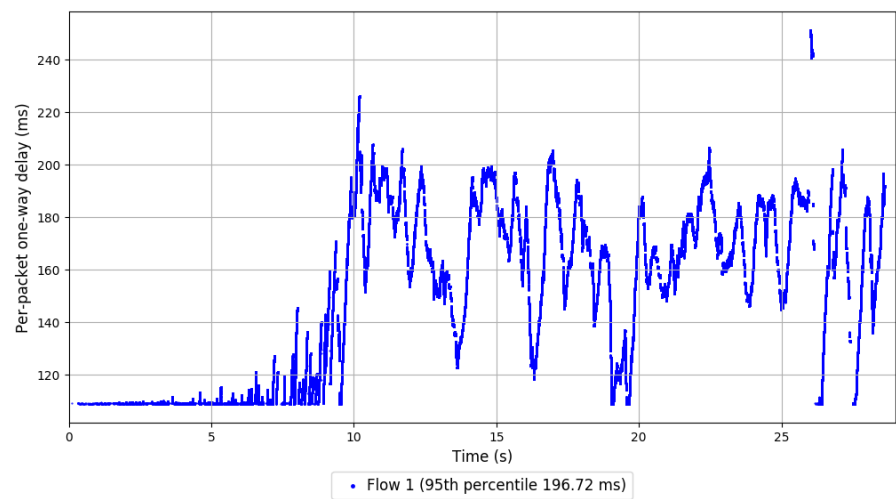
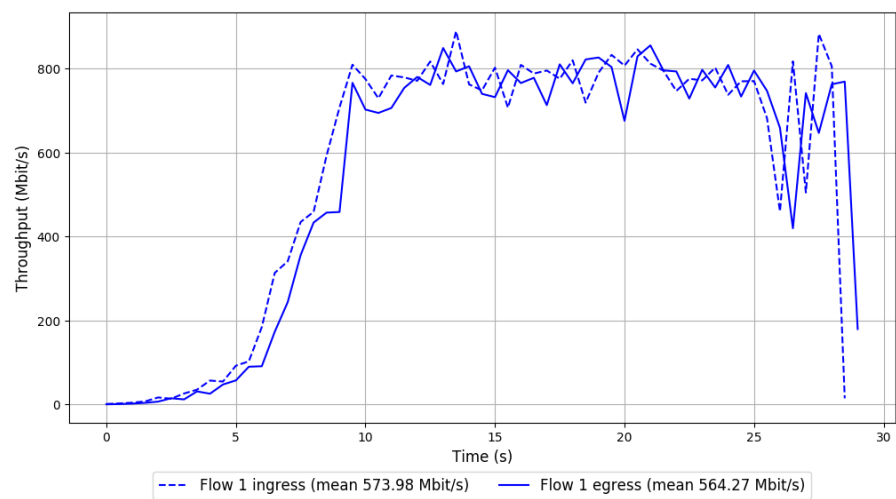
-- Flow 1:

Average throughput: 564.27 Mbit/s

95th percentile per-packet one-way delay: 196.718 ms

Loss rate: 1.69%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-17 05:16:38

End at: 2019-01-17 05:17:08

Local clock offset: 0.222 ms

Remote clock offset: 0.83 ms

Below is generated by plot.py at 2019-01-17 09:14:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.20 Mbit/s

95th percentile per-packet one-way delay: 109.850 ms

Loss rate: 0.00%

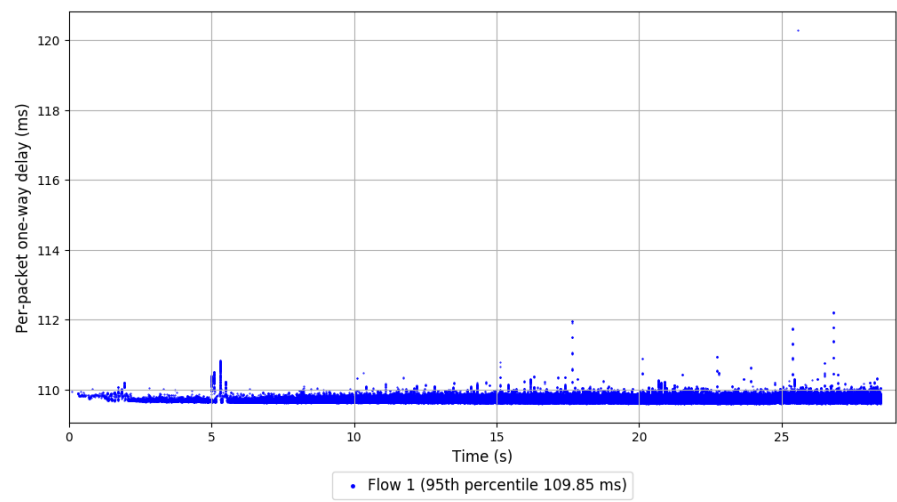
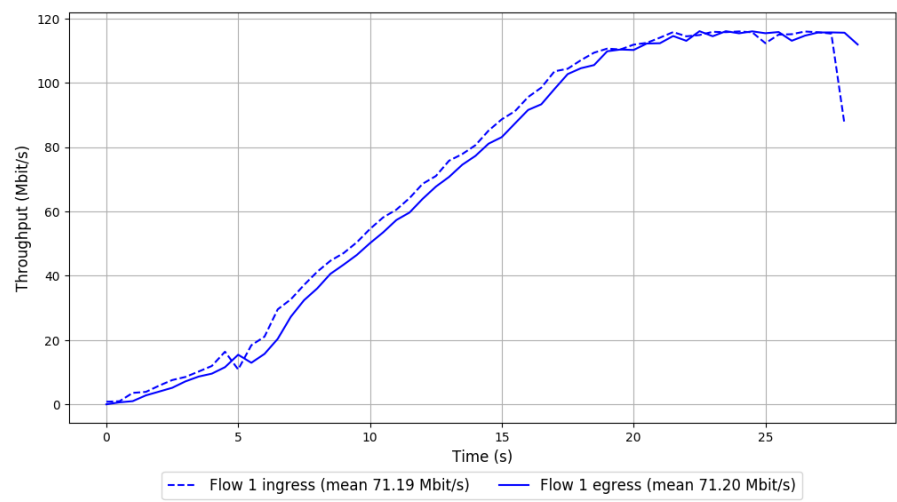
-- Flow 1:

Average throughput: 71.20 Mbit/s

95th percentile per-packet one-way delay: 109.850 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-17 05:47:59

End at: 2019-01-17 05:48:29

Local clock offset: 0.969 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2019-01-17 09:14:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.38 Mbit/s

95th percentile per-packet one-way delay: 107.602 ms

Loss rate: 0.00%

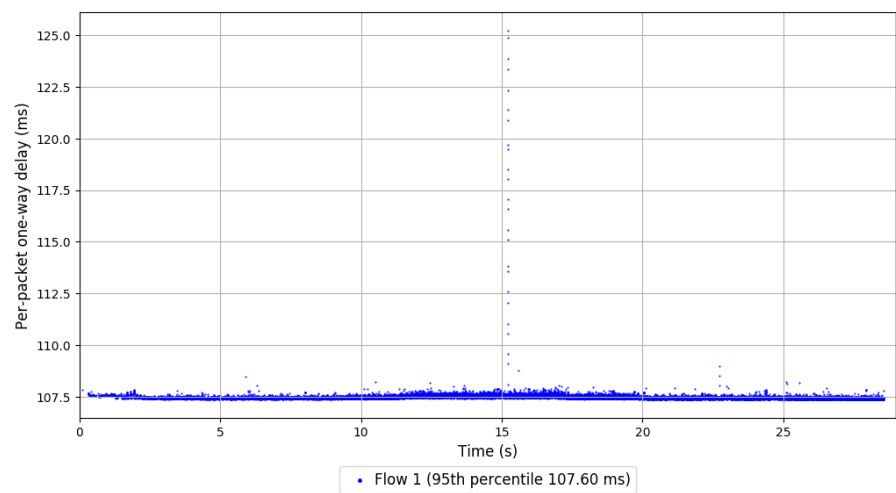
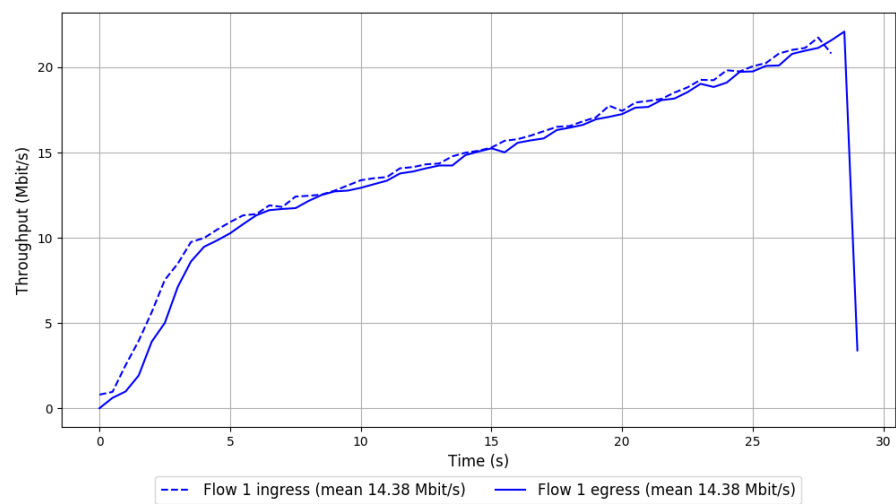
-- Flow 1:

Average throughput: 14.38 Mbit/s

95th percentile per-packet one-way delay: 107.602 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-17 06:19:11

End at: 2019-01-17 06:19:41

Local clock offset: 0.298 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2019-01-17 09:14:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 109.236 ms

Loss rate: 0.00%

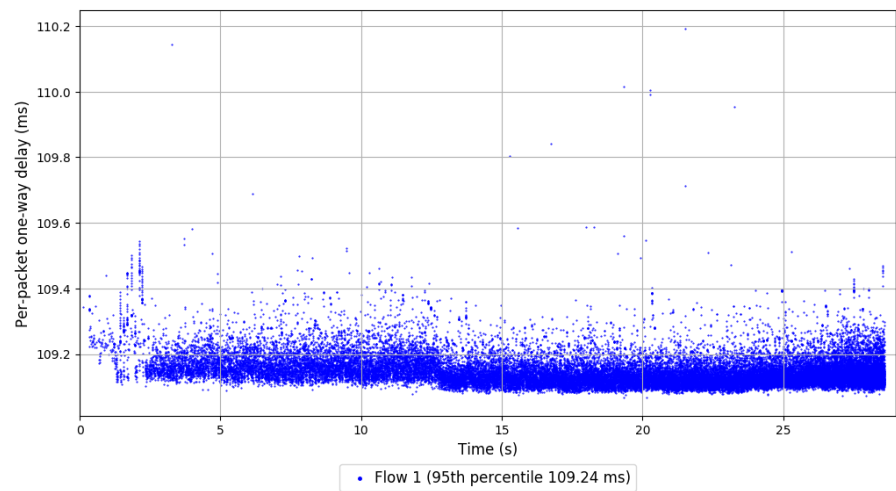
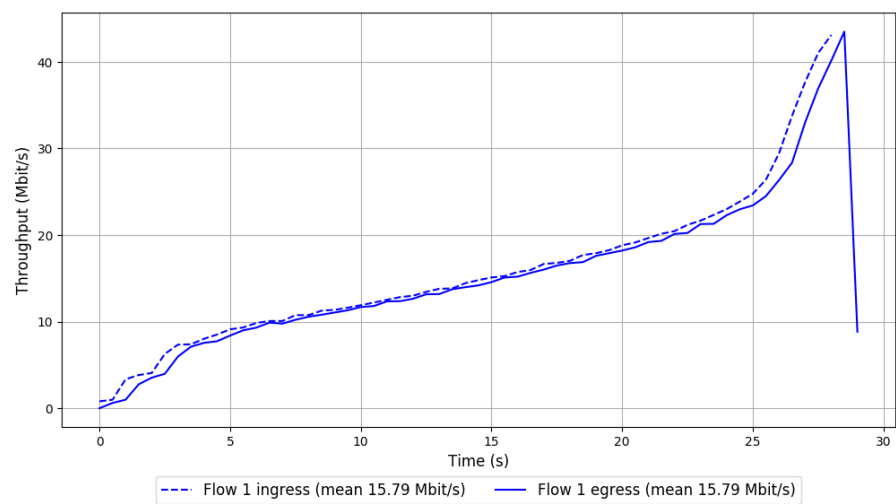
-- Flow 1:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 109.236 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-17 06:50:32

End at: 2019-01-17 06:51:02

Local clock offset: 0.819 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2019-01-17 09:14:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.62 Mbit/s

95th percentile per-packet one-way delay: 109.283 ms

Loss rate: 0.00%

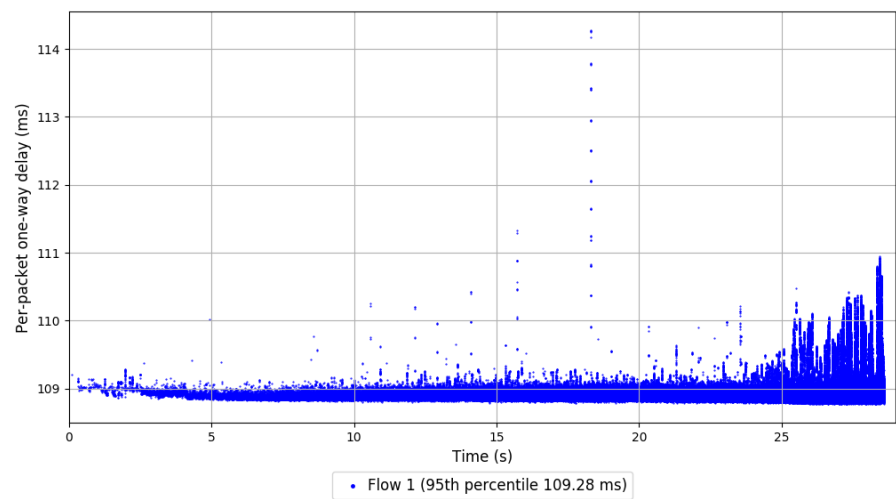
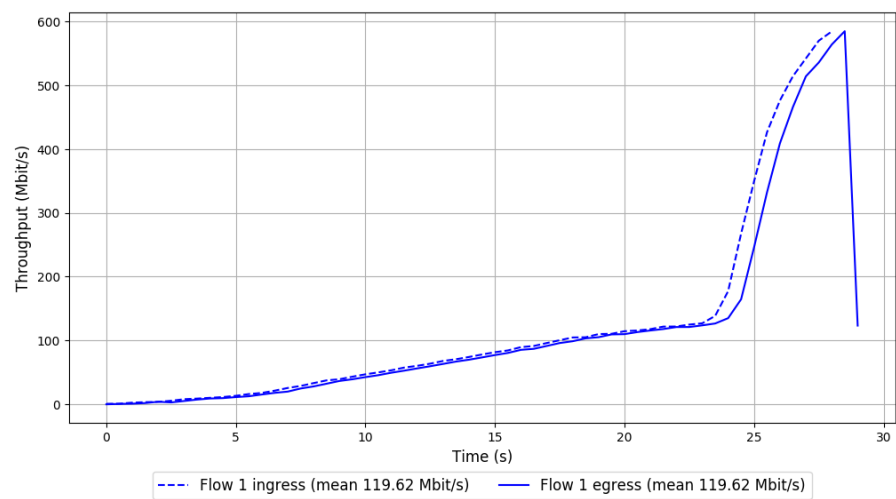
-- Flow 1:

Average throughput: 119.62 Mbit/s

95th percentile per-packet one-way delay: 109.283 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link

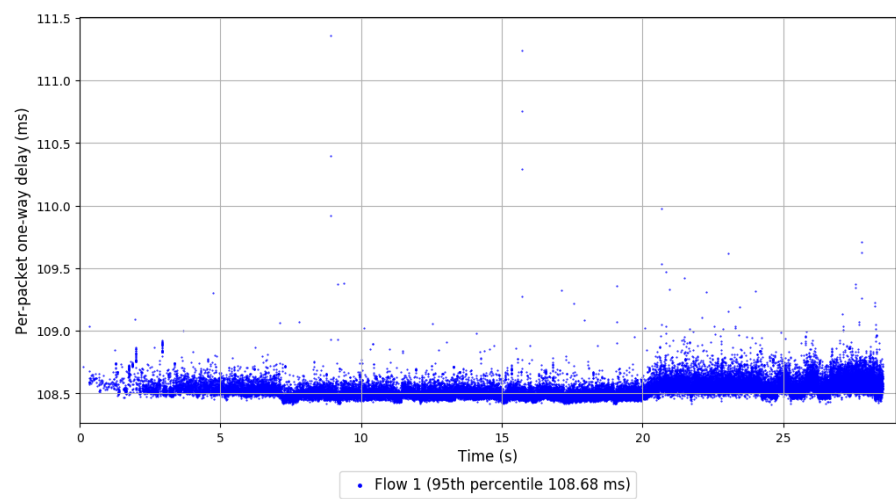
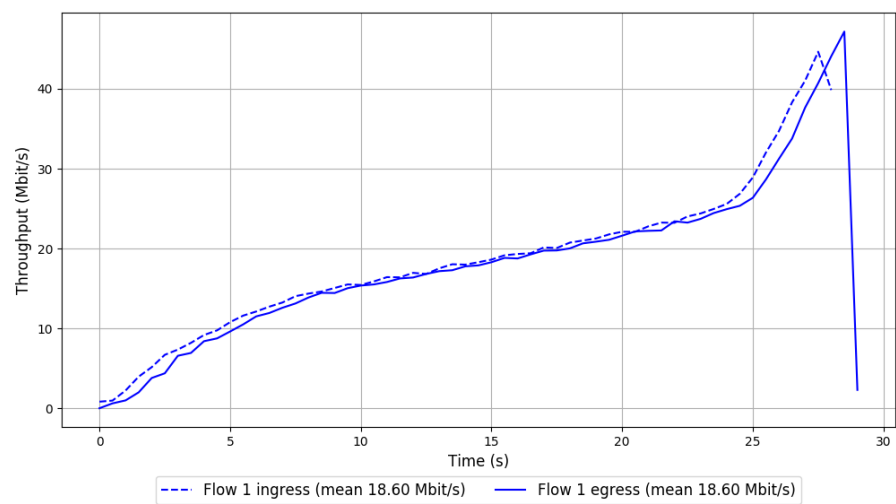


Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-17 07:21:57
End at: 2019-01-17 07:22:27
Local clock offset: -0.152 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2019-01-17 09:14:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 18.60 Mbit/s
95th percentile per-packet one-way delay: 108.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 18.60 Mbit/s
95th percentile per-packet one-way delay: 108.676 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-17 05:22:51

End at: 2019-01-17 05:23:21

Local clock offset: 0.984 ms

Remote clock offset: 0.597 ms

Below is generated by plot.py at 2019-01-17 09:20:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 615.34 Mbit/s

95th percentile per-packet one-way delay: 213.871 ms

Loss rate: 5.47%

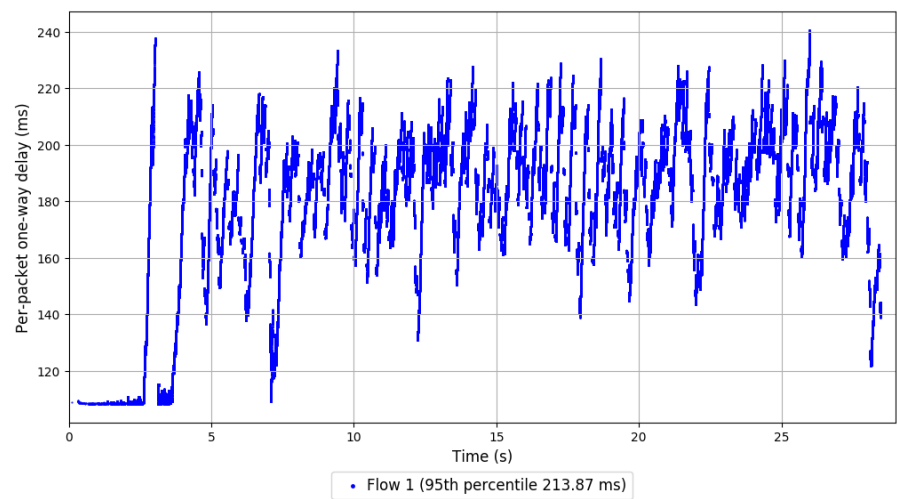
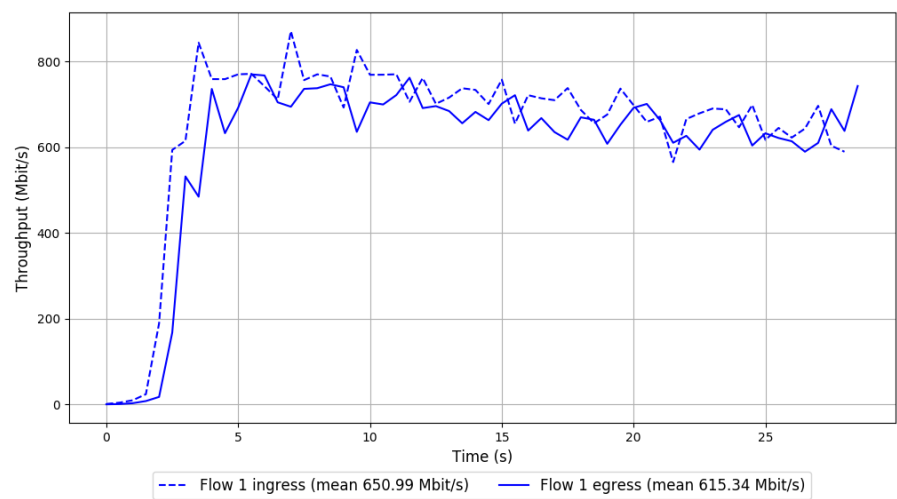
-- Flow 1:

Average throughput: 615.34 Mbit/s

95th percentile per-packet one-way delay: 213.871 ms

Loss rate: 5.47%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-17 05:54:08

End at: 2019-01-17 05:54:38

Local clock offset: -1.174 ms

Remote clock offset: 0.254 ms

Below is generated by plot.py at 2019-01-17 09:20:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 629.61 Mbit/s

95th percentile per-packet one-way delay: 216.391 ms

Loss rate: 5.51%

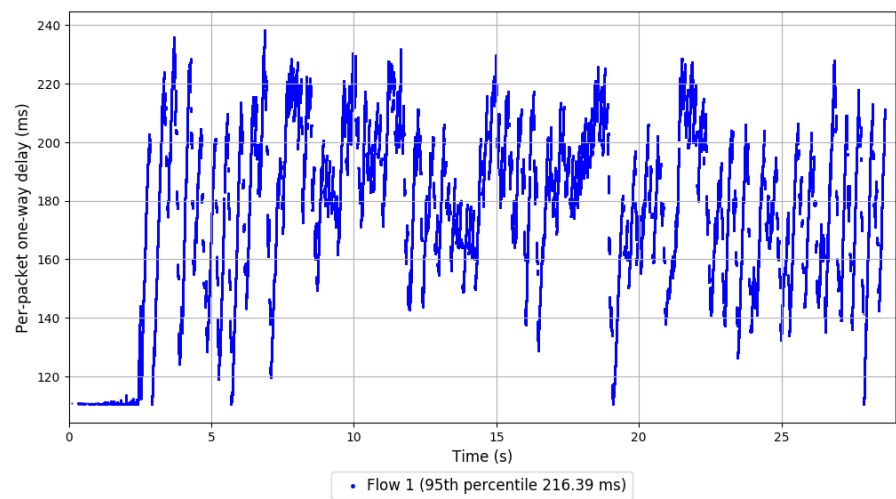
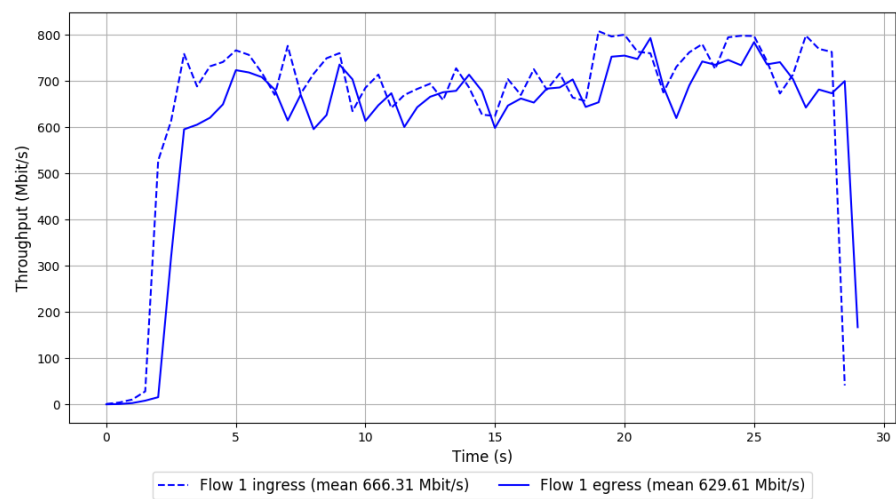
-- Flow 1:

Average throughput: 629.61 Mbit/s

95th percentile per-packet one-way delay: 216.391 ms

Loss rate: 5.51%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-17 06:25:32

End at: 2019-01-17 06:26:02

Local clock offset: -0.906 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2019-01-17 09:20:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 520.82 Mbit/s

95th percentile per-packet one-way delay: 224.999 ms

Loss rate: 4.75%

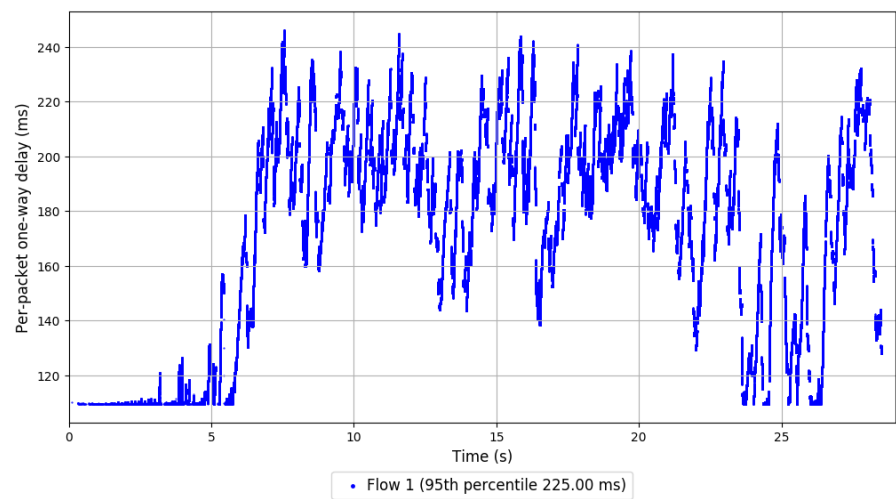
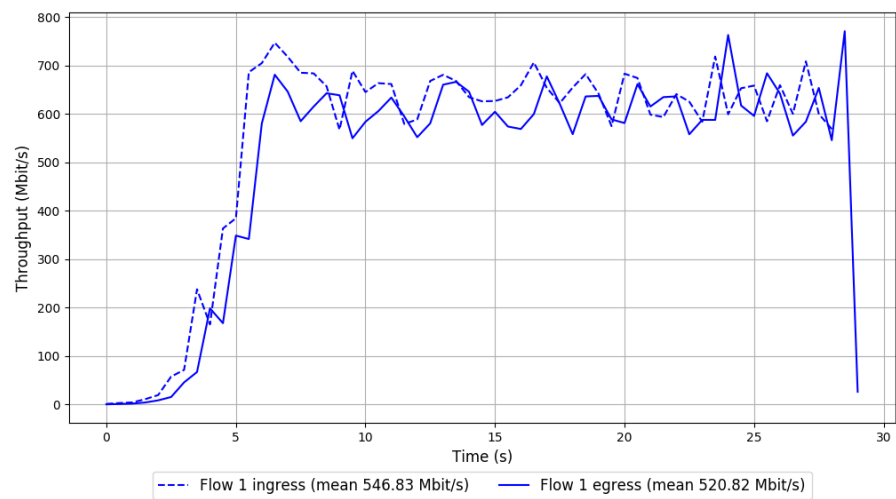
-- Flow 1:

Average throughput: 520.82 Mbit/s

95th percentile per-packet one-way delay: 224.999 ms

Loss rate: 4.75%

Run 3: Report of Indigo-MusesT — Data Link

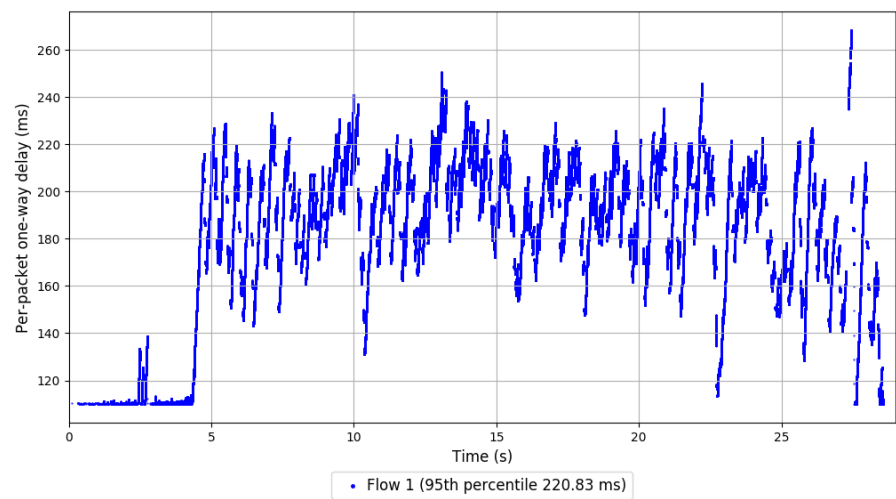
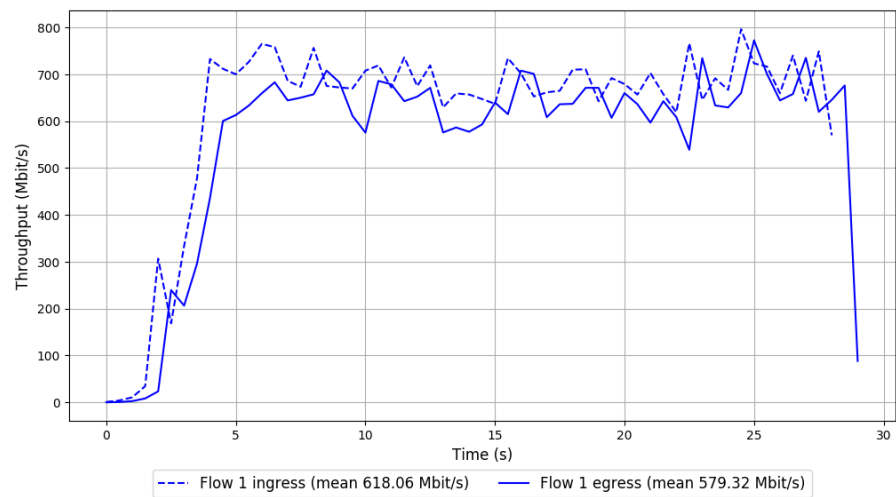


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-17 06:56:50
End at: 2019-01-17 06:57:20
Local clock offset: -0.459 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2019-01-17 09:20:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 579.32 Mbit/s
95th percentile per-packet one-way delay: 220.828 ms
Loss rate: 6.27%
-- Flow 1:
Average throughput: 579.32 Mbit/s
95th percentile per-packet one-way delay: 220.828 ms
Loss rate: 6.27%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-17 07:28:13

End at: 2019-01-17 07:28:43

Local clock offset: -0.152 ms

Remote clock offset: 0.321 ms

Below is generated by plot.py at 2019-01-17 09:22:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 639.98 Mbit/s

95th percentile per-packet one-way delay: 215.929 ms

Loss rate: 6.24%

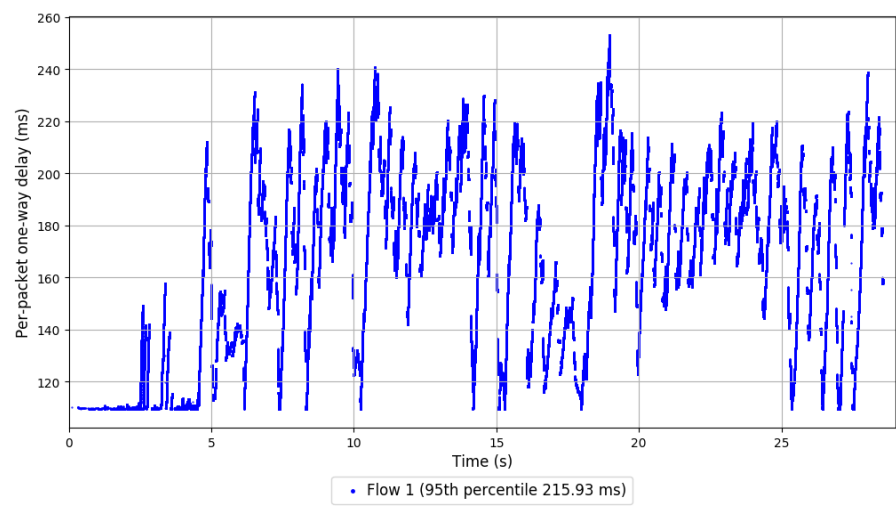
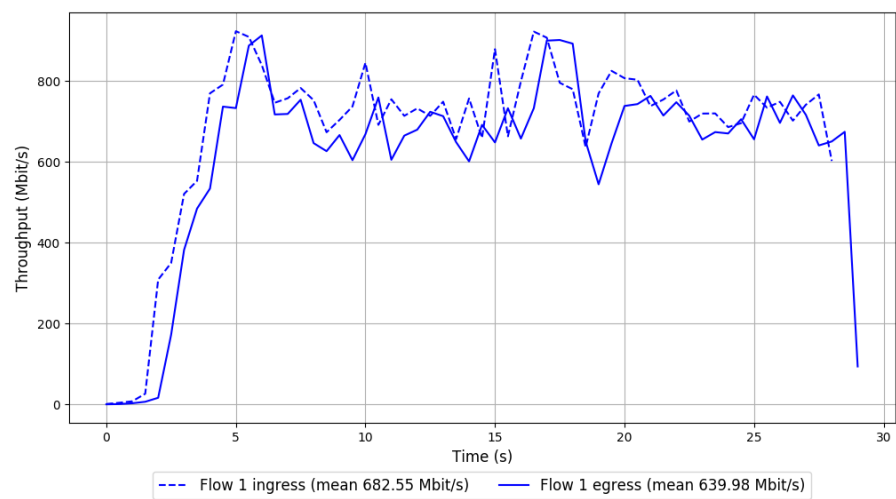
-- Flow 1:

Average throughput: 639.98 Mbit/s

95th percentile per-packet one-way delay: 215.929 ms

Loss rate: 6.24%

Run 5: Report of Indigo-MusesT — Data Link

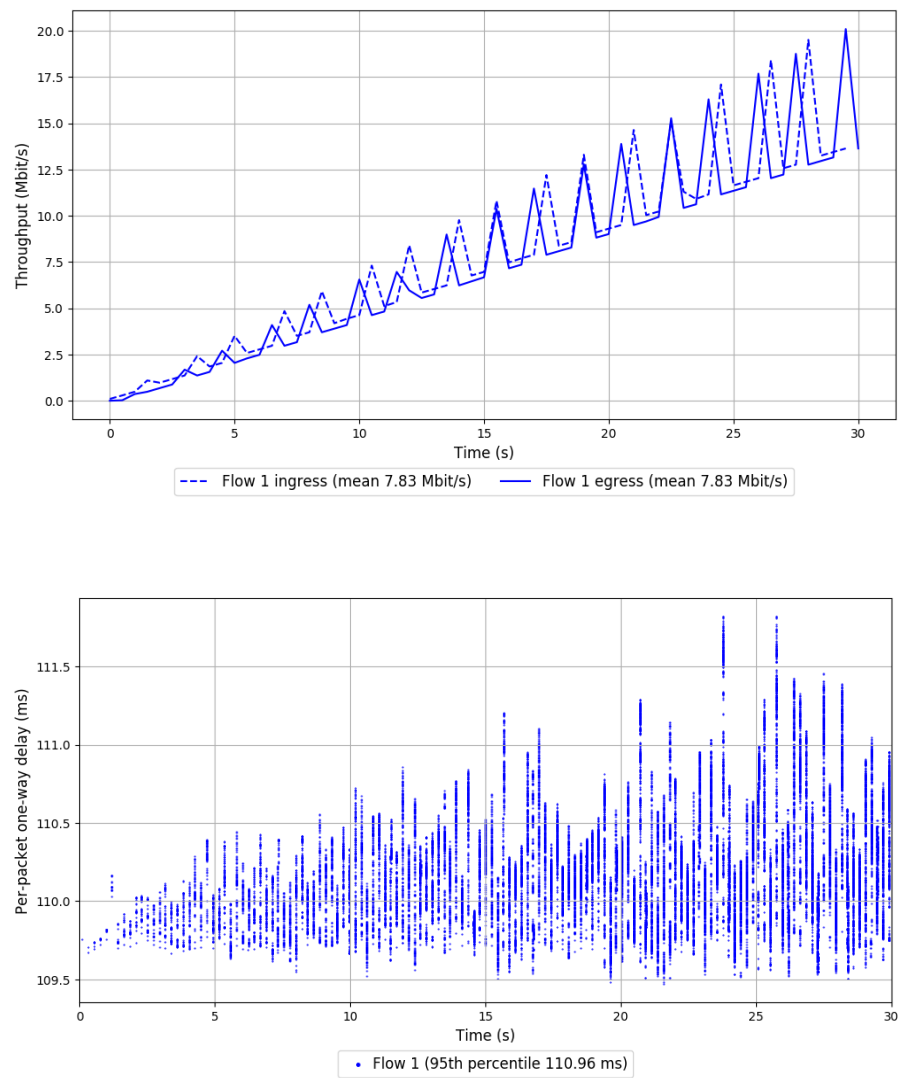


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-17 05:27:57
End at: 2019-01-17 05:28:27
Local clock offset: 0.642 ms
Remote clock offset: 0.924 ms

# Below is generated by plot.py at 2019-01-17 09:22:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 110.963 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 110.963 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-01-17 05:59:13

End at: 2019-01-17 05:59:43

Local clock offset: 1.469 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2019-01-17 09:22:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 108.995 ms

Loss rate: 0.00%

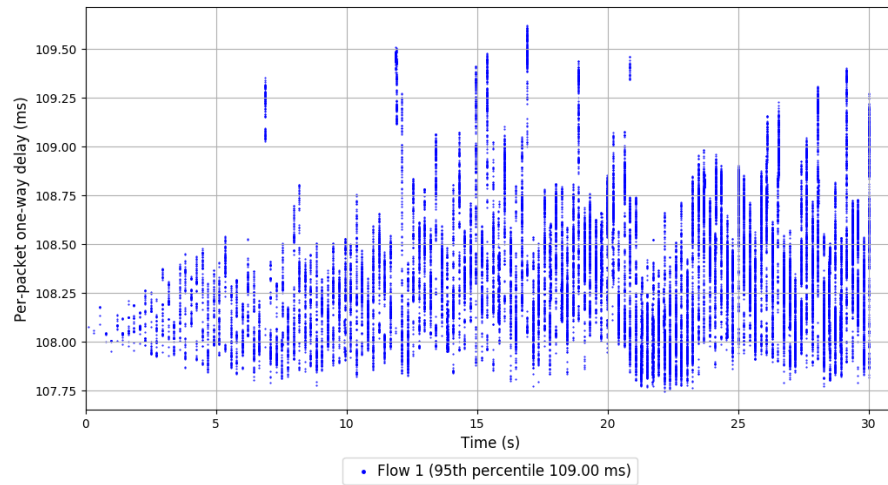
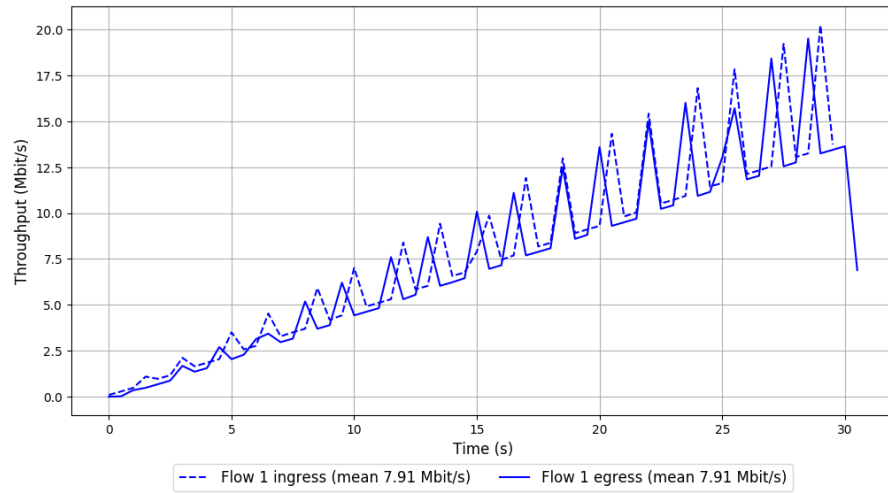
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 108.995 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-01-17 06:30:24

End at: 2019-01-17 06:30:54

Local clock offset: 0.189 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2019-01-17 09:22:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 110.668 ms

Loss rate: 0.00%

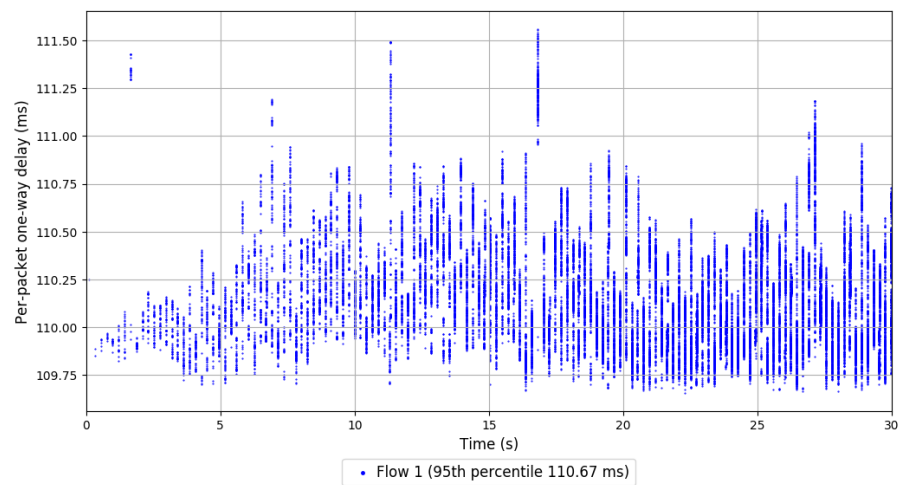
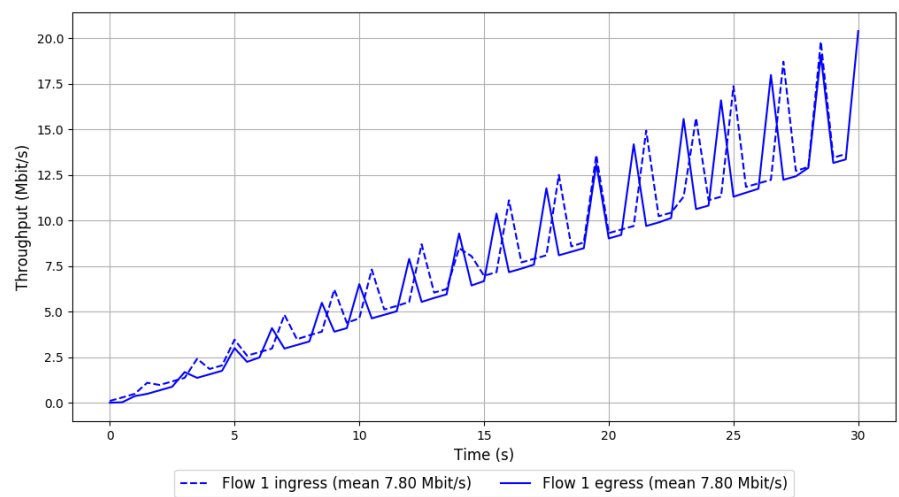
-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 110.668 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

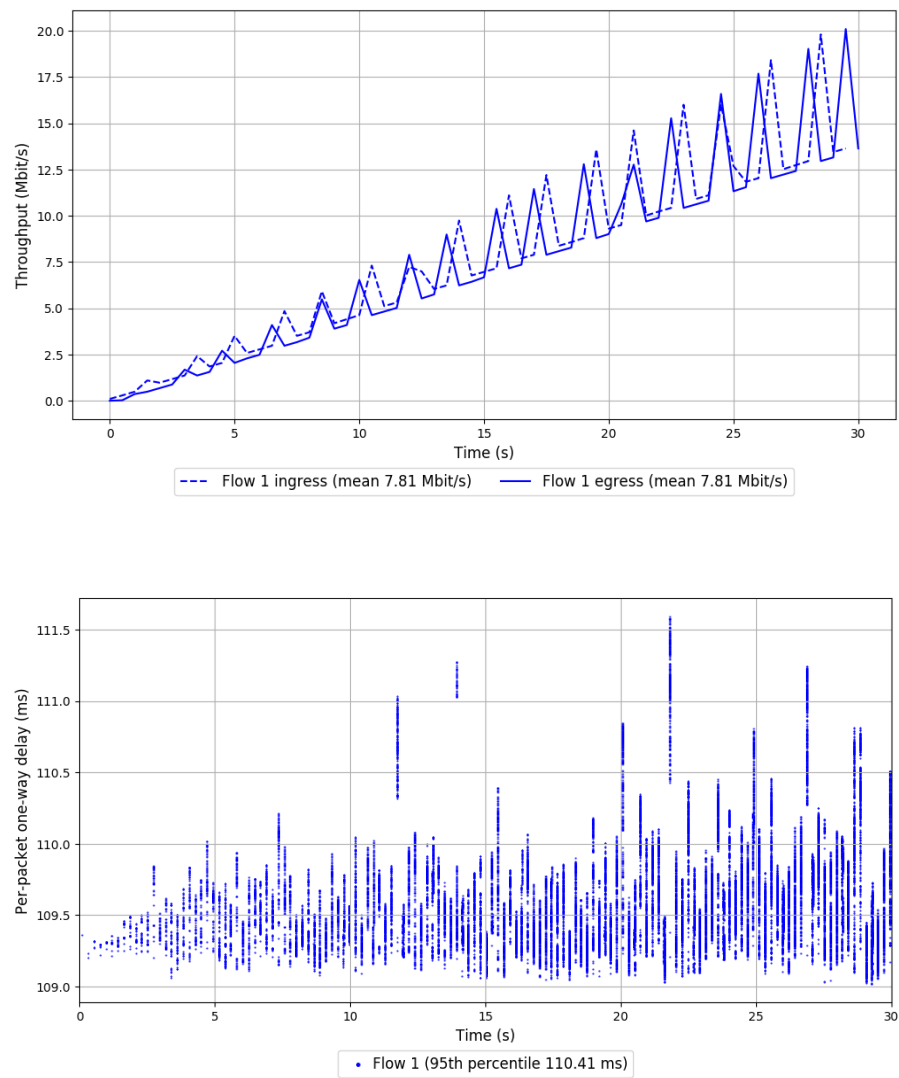


Run 4: Statistics of LEDBAT

Start at: 2019-01-17 07:01:47
End at: 2019-01-17 07:02:17
Local clock offset: -0.195 ms
Remote clock offset: -0.454 ms

Below is generated by plot.py at 2019-01-17 09:22:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 110.406 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 110.406 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

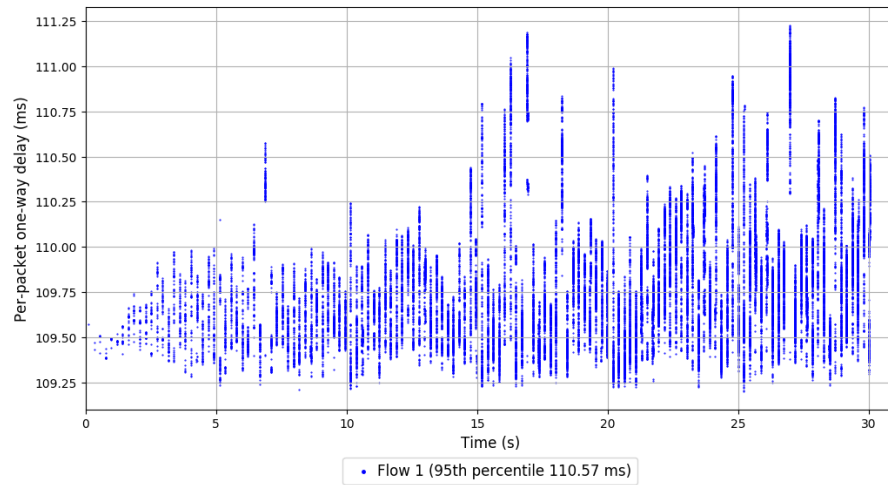
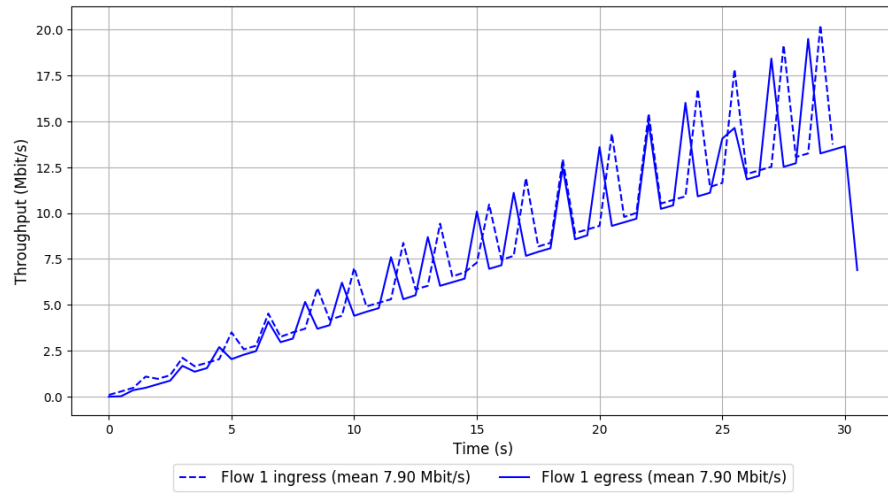


Run 5: Statistics of LEDBAT

Start at: 2019-01-17 07:33:04
End at: 2019-01-17 07:33:34
Local clock offset: -0.362 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2019-01-17 09:22:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 110.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 110.566 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

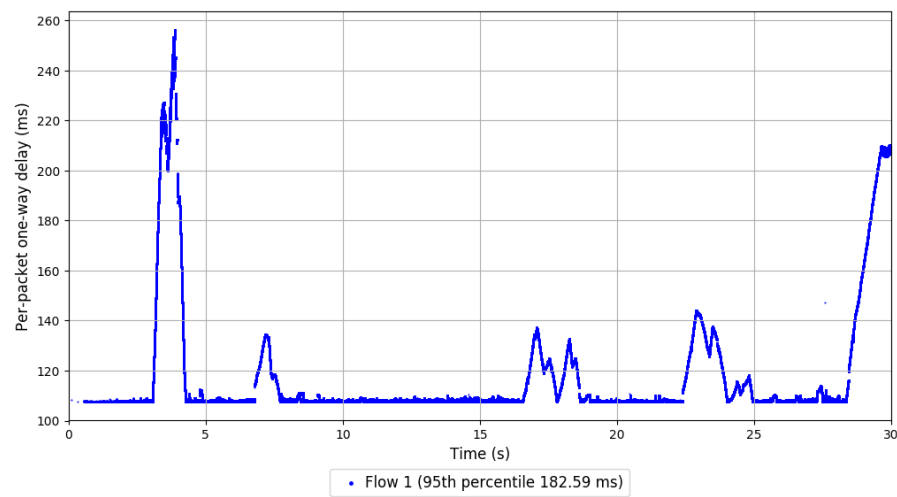
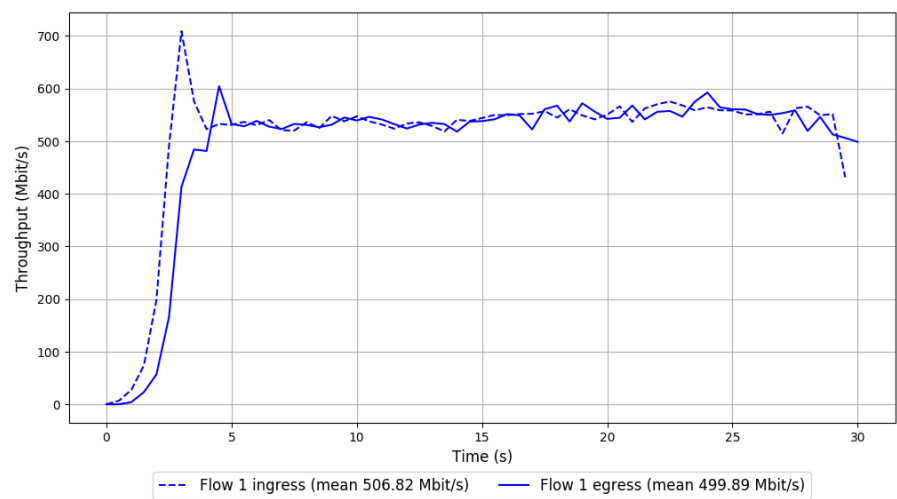


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-17 05:24:33
End at: 2019-01-17 05:25:03
Local clock offset: 2.258 ms
Remote clock offset: 0.602 ms

# Below is generated by plot.py at 2019-01-17 09:33:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 499.89 Mbit/s
95th percentile per-packet one-way delay: 182.587 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 499.89 Mbit/s
95th percentile per-packet one-way delay: 182.587 ms
Loss rate: 1.36%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-01-17 05:55:51

End at: 2019-01-17 05:56:21

Local clock offset: 0.24 ms

Remote clock offset: 0.221 ms

Below is generated by plot.py at 2019-01-17 09:33:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 450.64 Mbit/s

95th percentile per-packet one-way delay: 221.105 ms

Loss rate: 3.01%

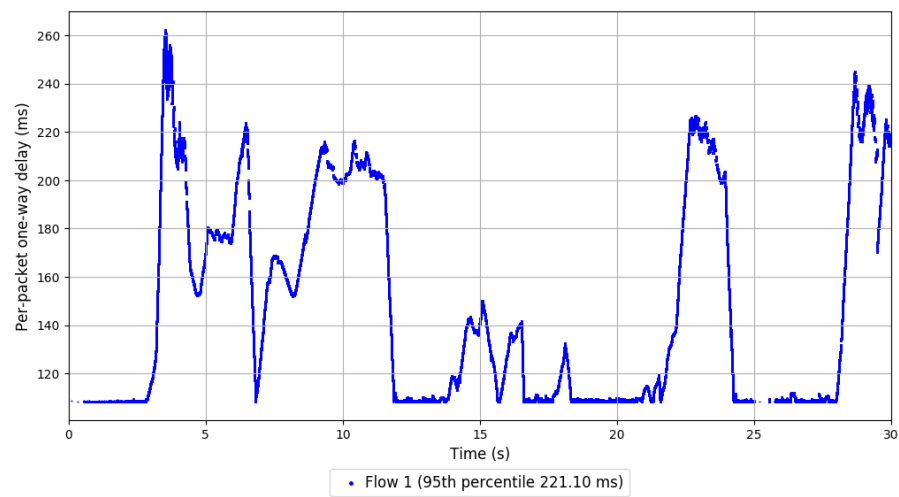
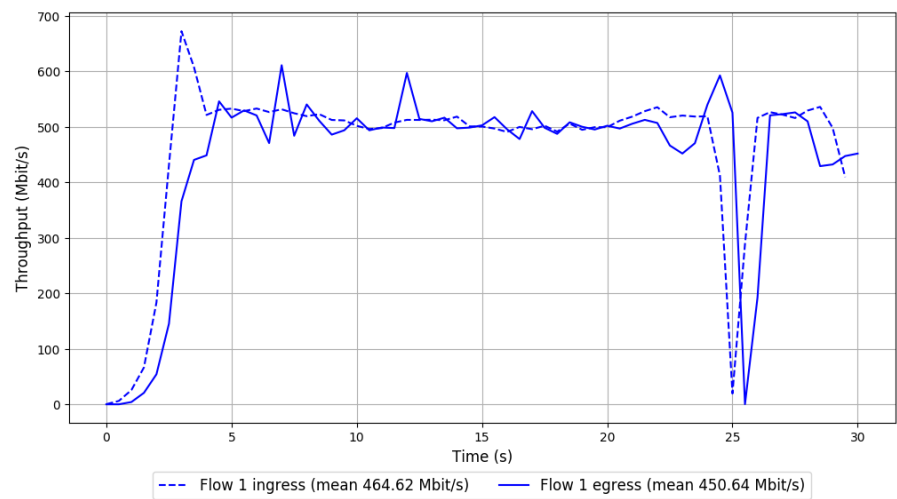
-- Flow 1:

Average throughput: 450.64 Mbit/s

95th percentile per-packet one-way delay: 221.105 ms

Loss rate: 3.01%

Run 2: Report of PCC-Allegro — Data Link

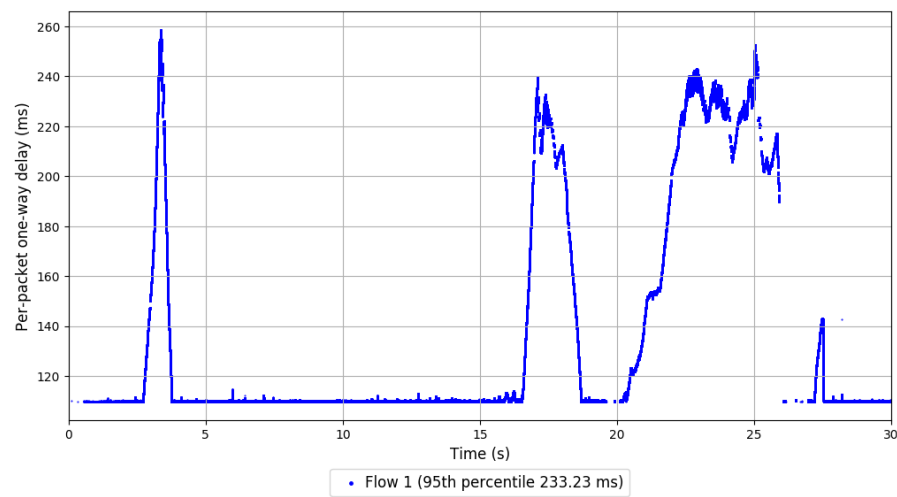
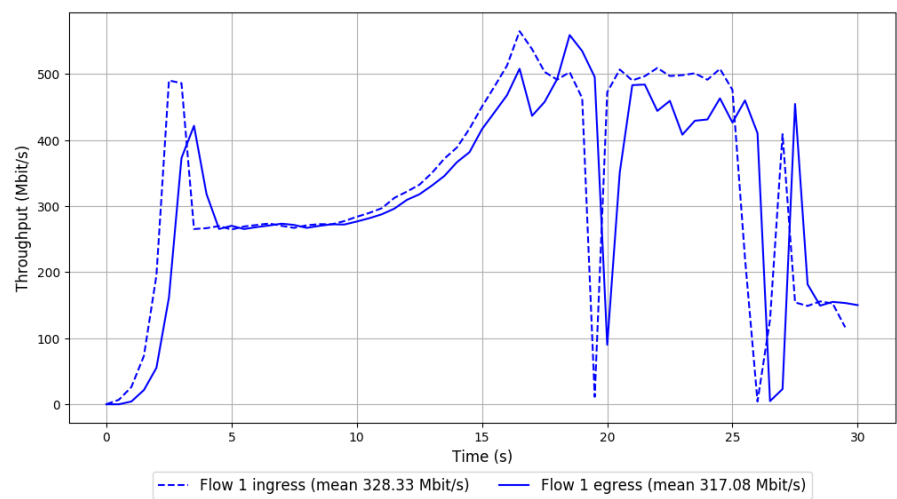


Run 3: Statistics of PCC-Allegro

Start at: 2019-01-17 06:27:10
End at: 2019-01-17 06:27:40
Local clock offset: -0.253 ms
Remote clock offset: -0.309 ms

Below is generated by plot.py at 2019-01-17 09:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 317.08 Mbit/s
95th percentile per-packet one-way delay: 233.234 ms
Loss rate: 3.43%
-- Flow 1:
Average throughput: 317.08 Mbit/s
95th percentile per-packet one-way delay: 233.234 ms
Loss rate: 3.43%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-01-17 06:58:32

End at: 2019-01-17 06:59:02

Local clock offset: -0.729 ms

Remote clock offset: -0.073 ms

Below is generated by plot.py at 2019-01-17 09:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.43 Mbit/s

95th percentile per-packet one-way delay: 155.184 ms

Loss rate: 1.00%

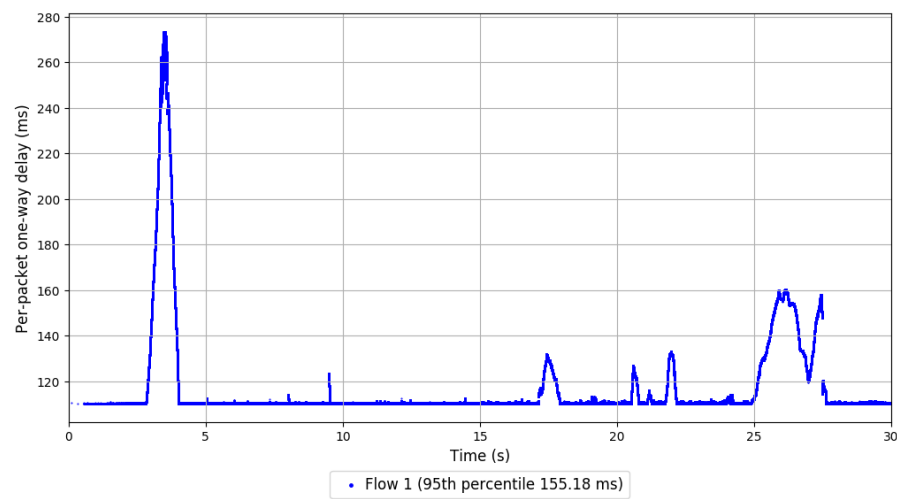
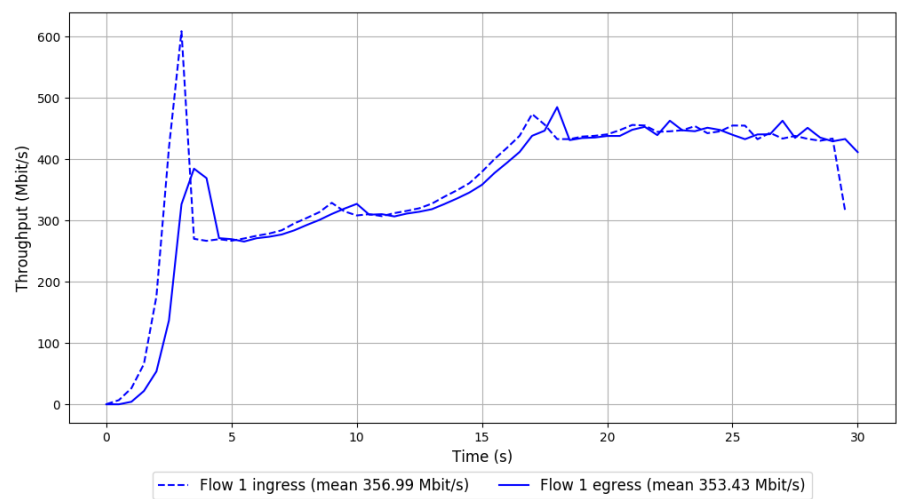
-- Flow 1:

Average throughput: 353.43 Mbit/s

95th percentile per-packet one-way delay: 155.184 ms

Loss rate: 1.00%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-17 07:29:56

End at: 2019-01-17 07:30:27

Local clock offset: -1.246 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2019-01-17 09:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.84 Mbit/s

95th percentile per-packet one-way delay: 207.398 ms

Loss rate: 0.75%

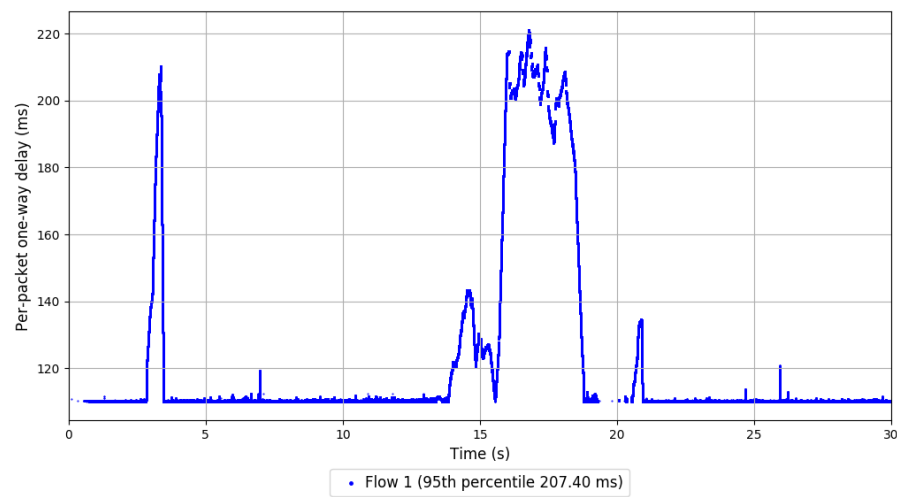
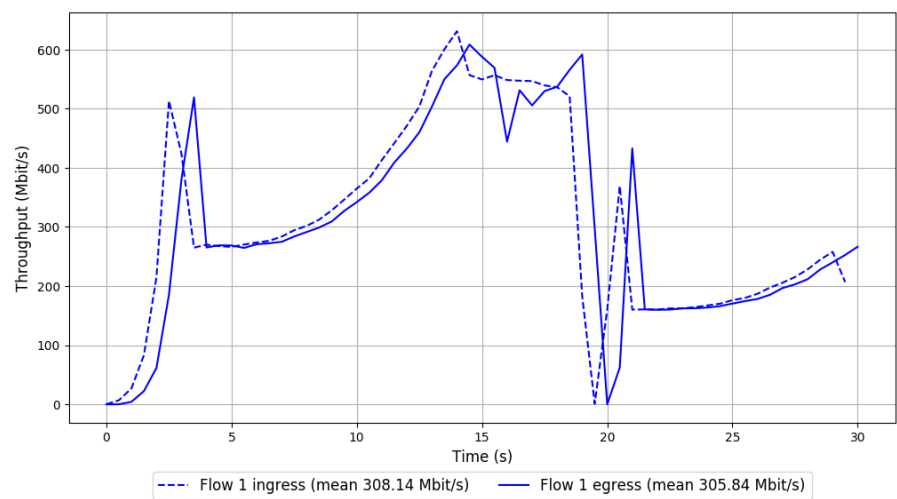
-- Flow 1:

Average throughput: 305.84 Mbit/s

95th percentile per-packet one-way delay: 207.398 ms

Loss rate: 0.75%

Run 5: Report of PCC-Allegro — Data Link

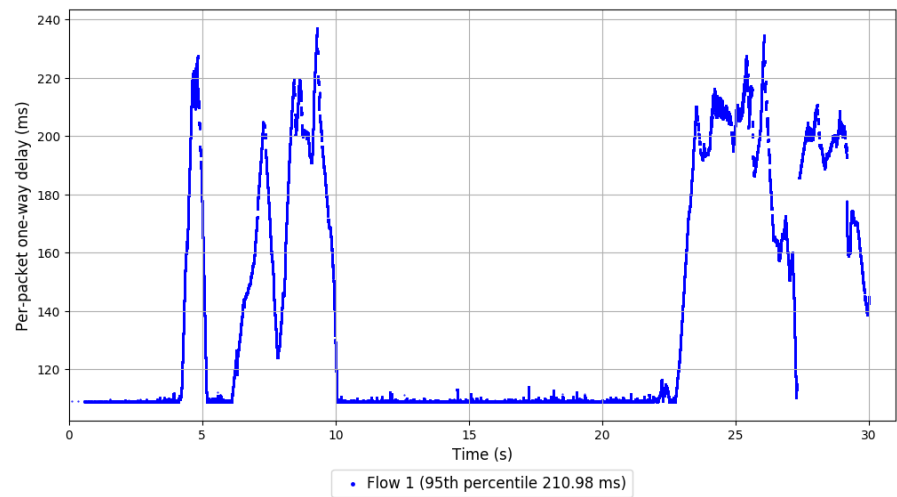
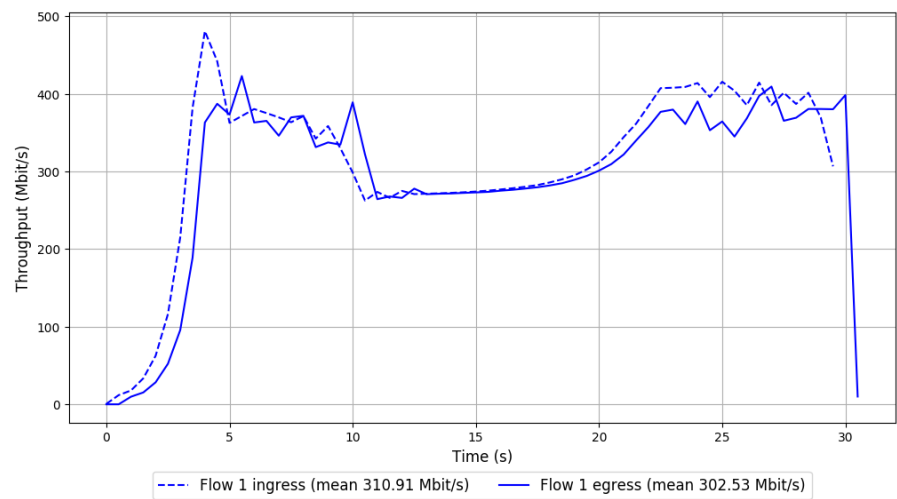



```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-17 05:21:09
End at: 2019-01-17 05:21:39
Local clock offset: 1.166 ms
Remote clock offset: 0.552 ms

# Below is generated by plot.py at 2019-01-17 09:35:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 302.53 Mbit/s
95th percentile per-packet one-way delay: 210.978 ms
Loss rate: 2.70%
-- Flow 1:
Average throughput: 302.53 Mbit/s
95th percentile per-packet one-way delay: 210.978 ms
Loss rate: 2.70%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-01-17 05:52:27

End at: 2019-01-17 05:52:57

Local clock offset: -0.427 ms

Remote clock offset: 0.259 ms

Below is generated by plot.py at 2019-01-17 09:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 302.68 Mbit/s

95th percentile per-packet one-way delay: 209.586 ms

Loss rate: 2.02%

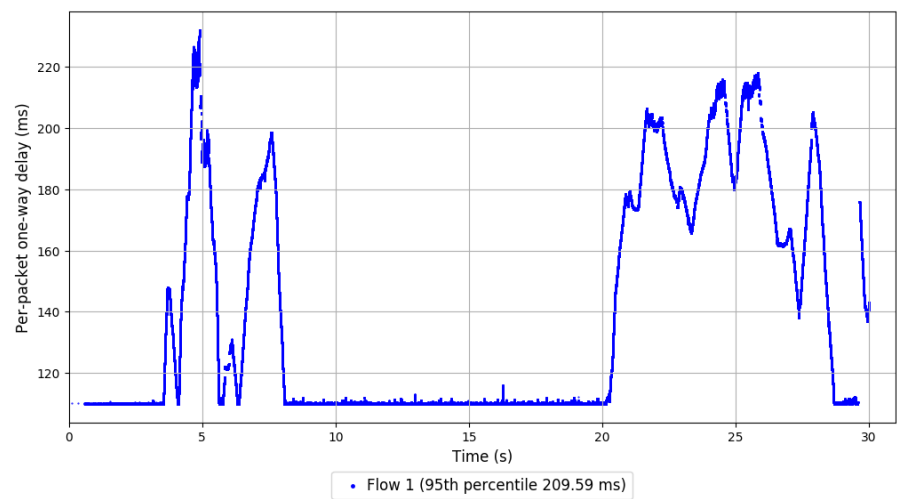
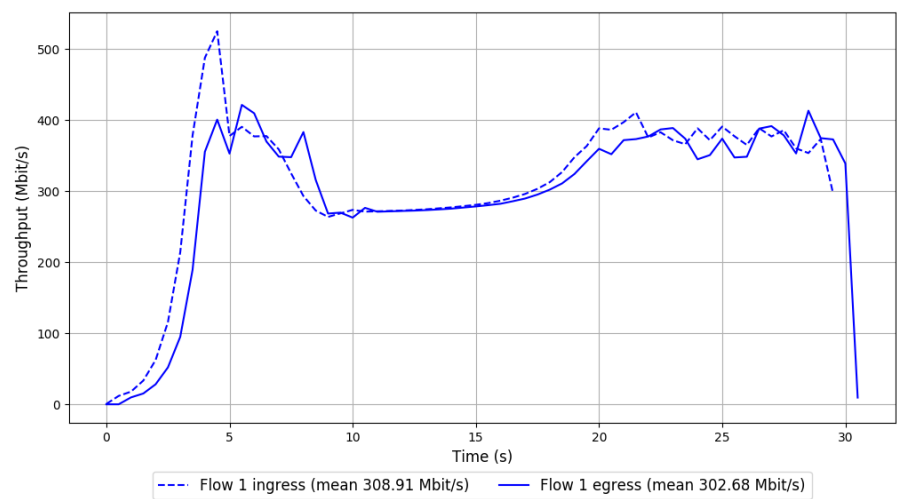
-- Flow 1:

Average throughput: 302.68 Mbit/s

95th percentile per-packet one-way delay: 209.586 ms

Loss rate: 2.02%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-01-17 06:23:53

End at: 2019-01-17 06:24:23

Local clock offset: 0.293 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2019-01-17 09:36:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.90 Mbit/s

95th percentile per-packet one-way delay: 209.905 ms

Loss rate: 1.66%

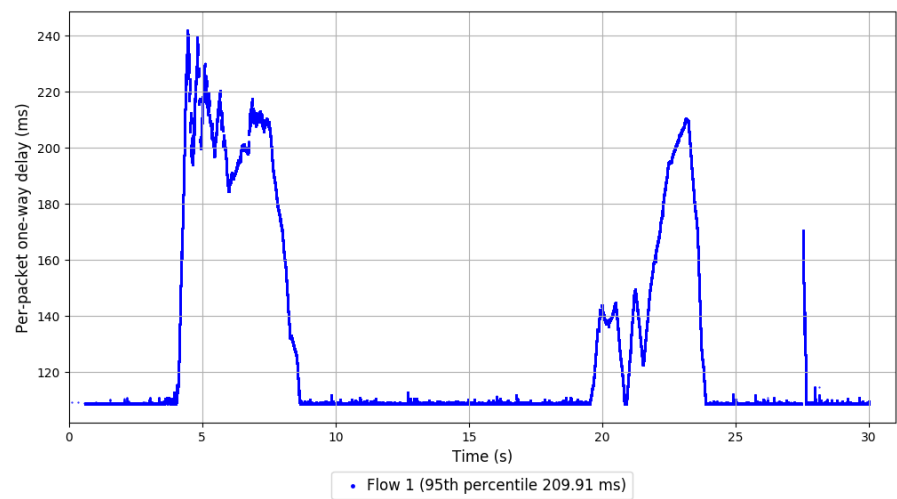
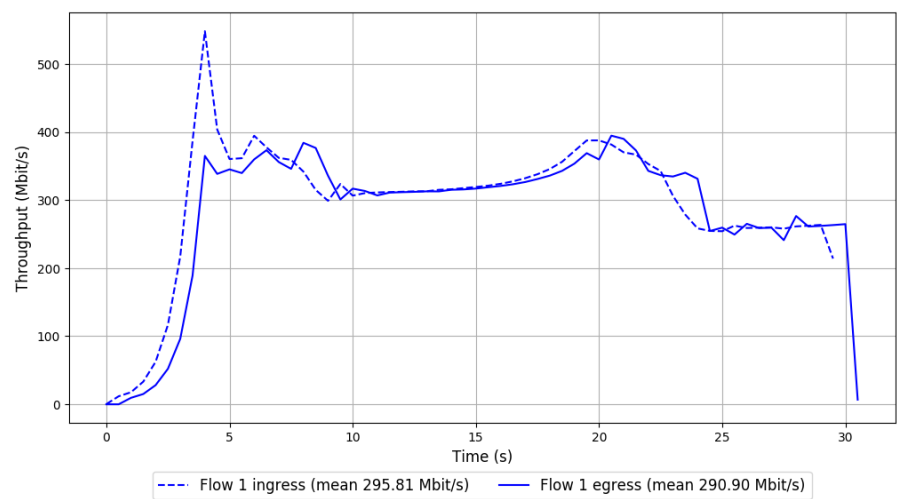
-- Flow 1:

Average throughput: 290.90 Mbit/s

95th percentile per-packet one-way delay: 209.905 ms

Loss rate: 1.66%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-01-17 06:55:10

End at: 2019-01-17 06:55:40

Local clock offset: -1.057 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2019-01-17 09:44:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.94 Mbit/s

95th percentile per-packet one-way delay: 228.742 ms

Loss rate: 3.99%

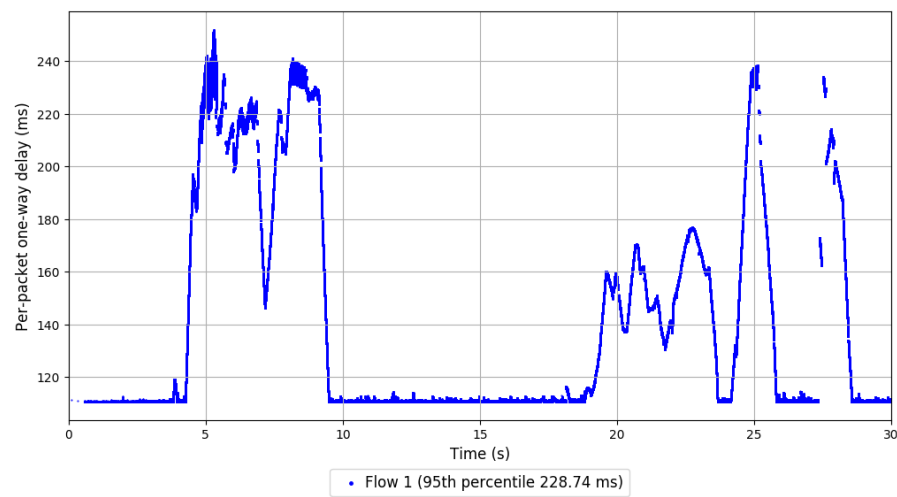
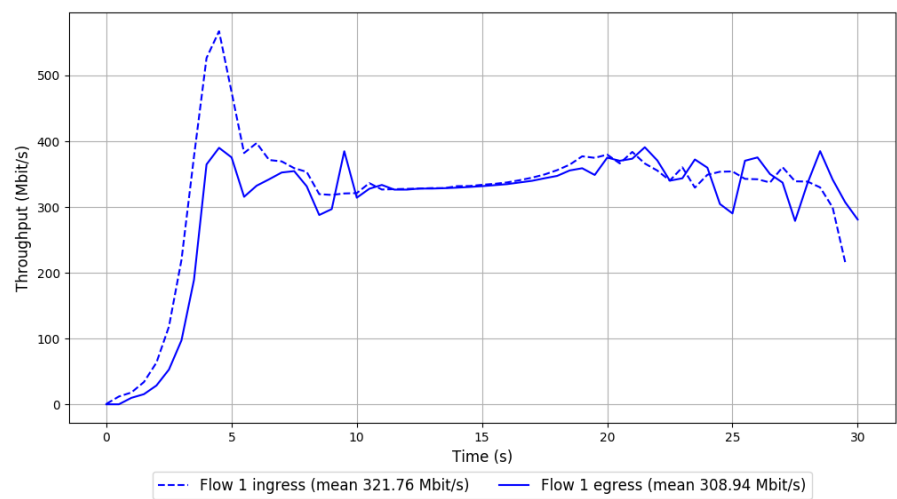
-- Flow 1:

Average throughput: 308.94 Mbit/s

95th percentile per-packet one-way delay: 228.742 ms

Loss rate: 3.99%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-01-17 07:26:34

End at: 2019-01-17 07:27:04

Local clock offset: 0.158 ms

Remote clock offset: -0.457 ms

Below is generated by plot.py at 2019-01-17 09:45:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.52 Mbit/s

95th percentile per-packet one-way delay: 209.062 ms

Loss rate: 1.60%

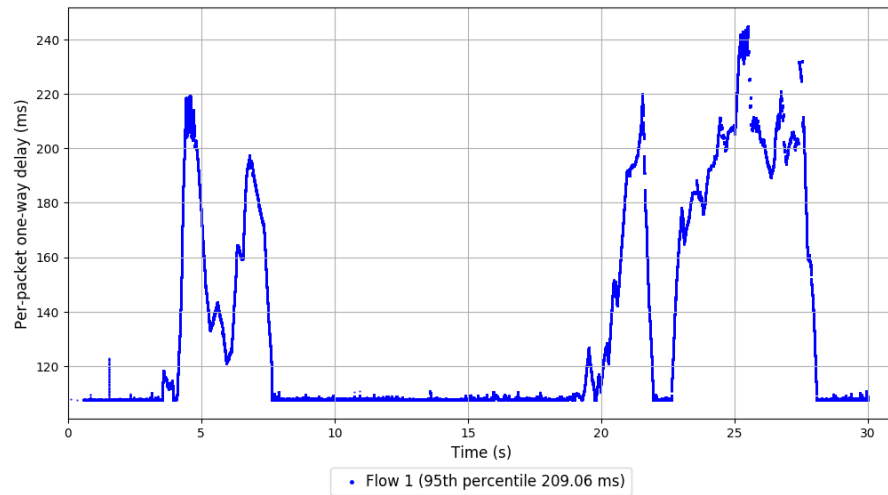
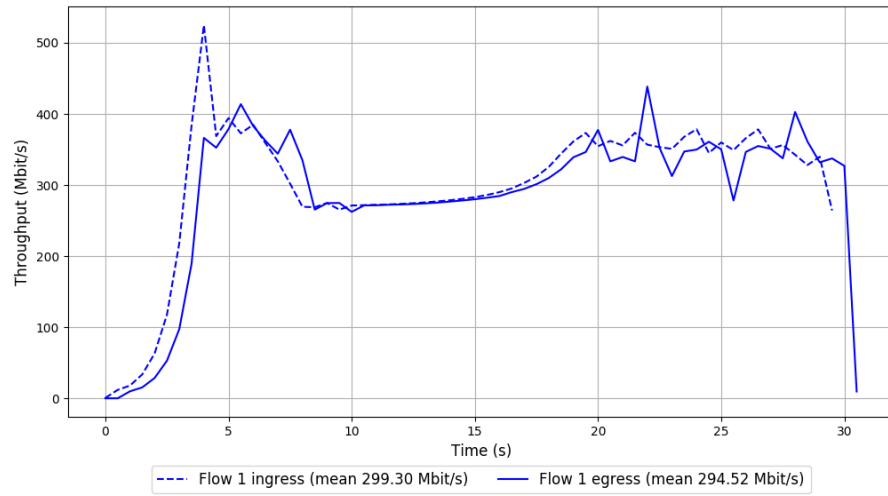
-- Flow 1:

Average throughput: 294.52 Mbit/s

95th percentile per-packet one-way delay: 209.062 ms

Loss rate: 1.60%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-01-17 05:29:08

End at: 2019-01-17 05:29:38

Local clock offset: 1.485 ms

Remote clock offset: 0.956 ms

Below is generated by plot.py at 2019-01-17 09:45:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.46 Mbit/s

95th percentile per-packet one-way delay: 108.081 ms

Loss rate: 0.00%

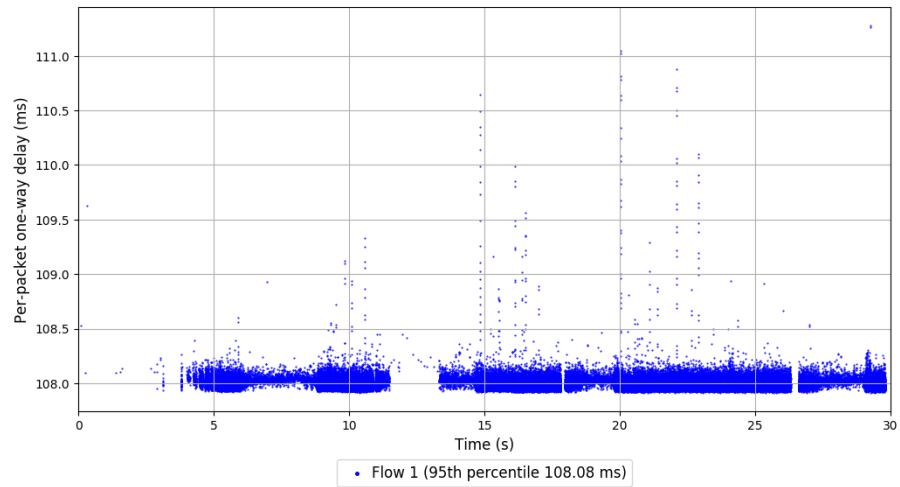
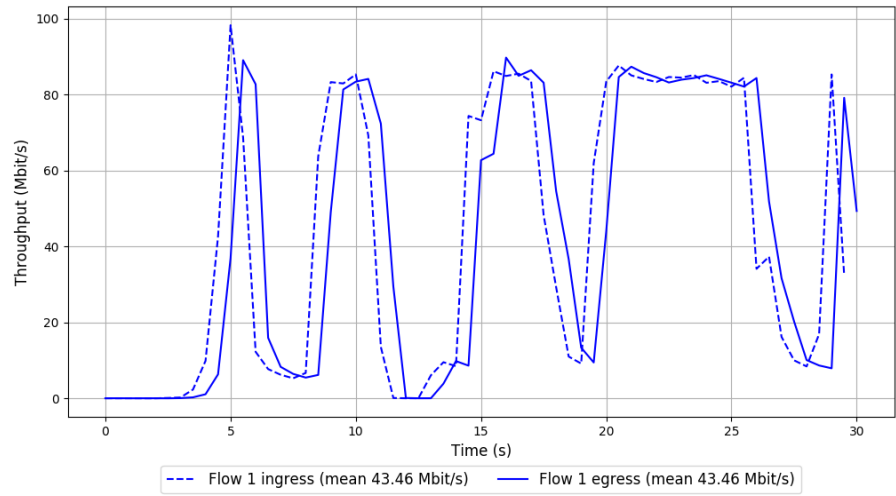
-- Flow 1:

Average throughput: 43.46 Mbit/s

95th percentile per-packet one-way delay: 108.081 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-17 06:00:24

End at: 2019-01-17 06:00:54

Local clock offset: -0.654 ms

Remote clock offset: 0.237 ms

Below is generated by plot.py at 2019-01-17 09:45:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.09 Mbit/s

95th percentile per-packet one-way delay: 110.412 ms

Loss rate: 0.00%

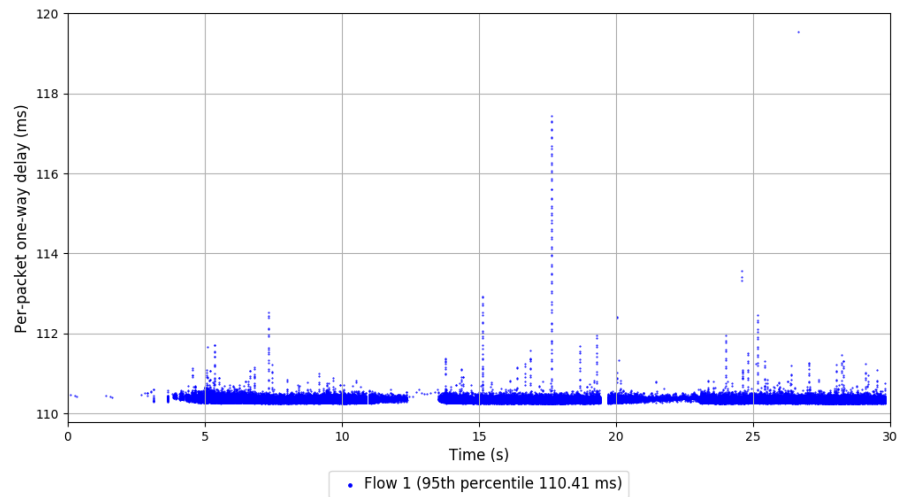
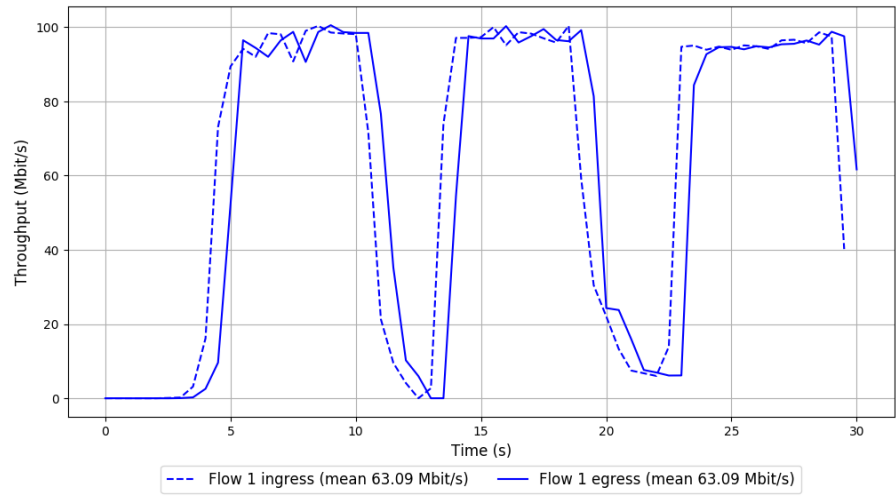
-- Flow 1:

Average throughput: 63.09 Mbit/s

95th percentile per-packet one-way delay: 110.412 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-17 06:31:35

End at: 2019-01-17 06:32:05

Local clock offset: -1.02 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2019-01-17 09:45:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.74 Mbit/s

95th percentile per-packet one-way delay: 110.810 ms

Loss rate: 0.00%

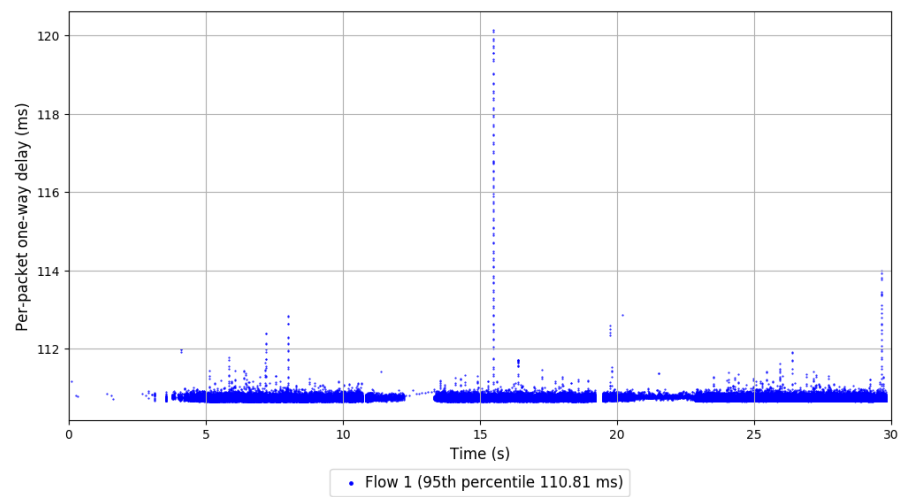
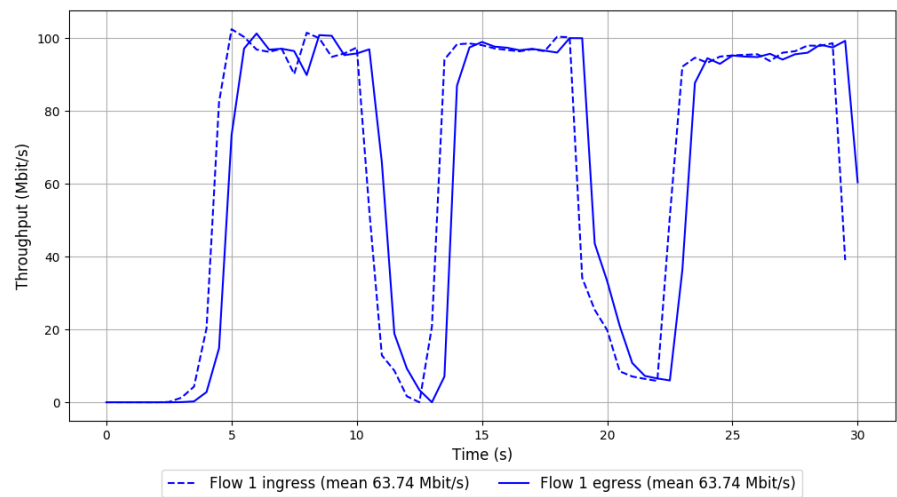
-- Flow 1:

Average throughput: 63.74 Mbit/s

95th percentile per-packet one-way delay: 110.810 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-01-17 07:02:58

End at: 2019-01-17 07:03:28

Local clock offset: 0.057 ms

Remote clock offset: -0.057 ms

Below is generated by plot.py at 2019-01-17 09:45:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.83 Mbit/s

95th percentile per-packet one-way delay: 108.408 ms

Loss rate: 0.00%

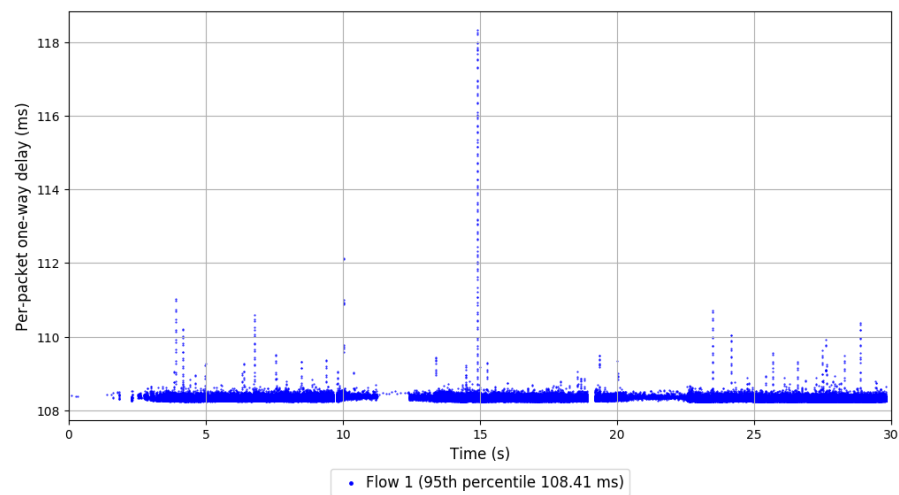
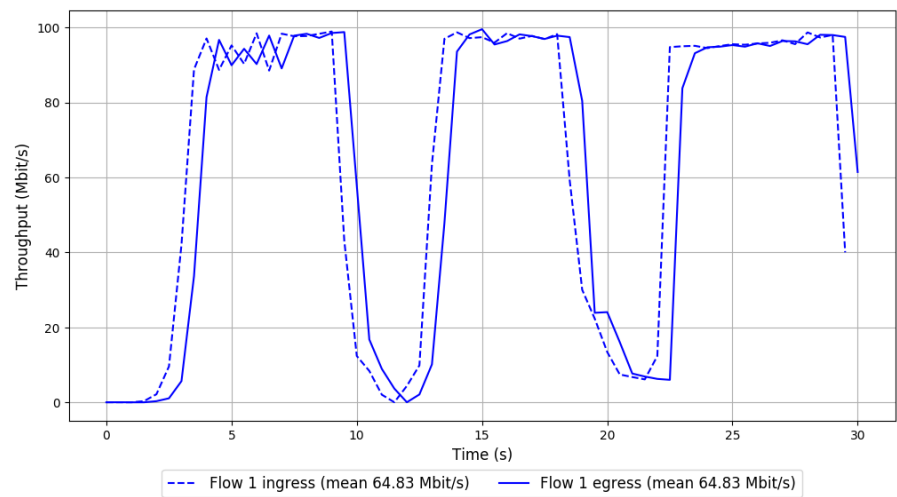
-- Flow 1:

Average throughput: 64.83 Mbit/s

95th percentile per-packet one-way delay: 108.408 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-17 07:34:15

End at: 2019-01-17 07:34:45

Local clock offset: -0.269 ms

Remote clock offset: -0.036 ms

Below is generated by plot.py at 2019-01-17 09:45:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 108.606 ms

Loss rate: 0.00%

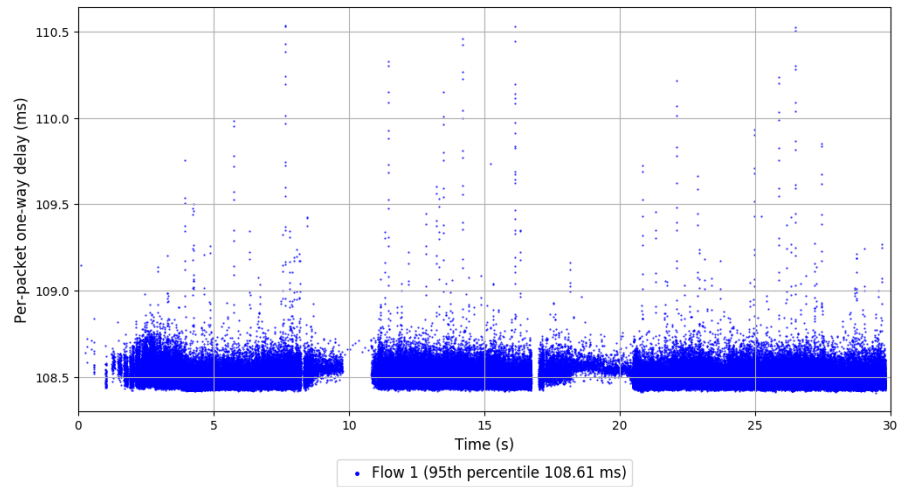
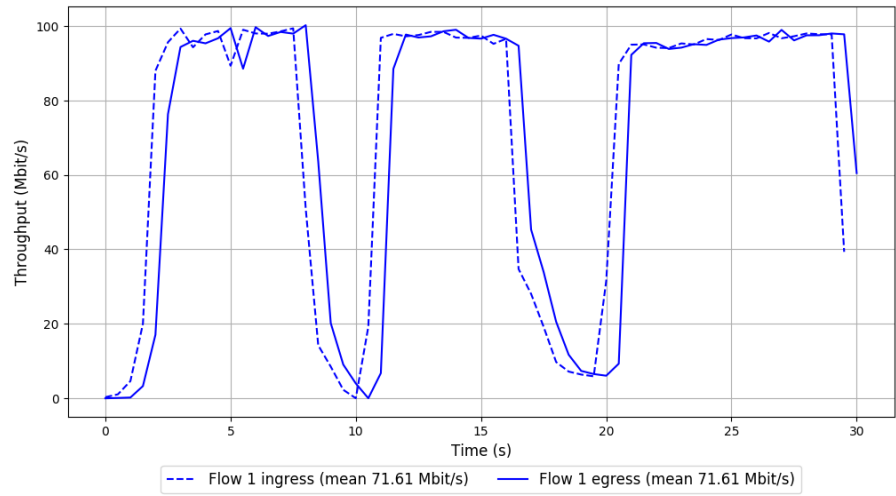
-- Flow 1:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 108.606 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-01-17 05:14:19

End at: 2019-01-17 05:14:49

Local clock offset: 1.978 ms

Remote clock offset: 0.911 ms

Below is generated by plot.py at 2019-01-17 09:45:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.179 ms

Loss rate: 0.00%

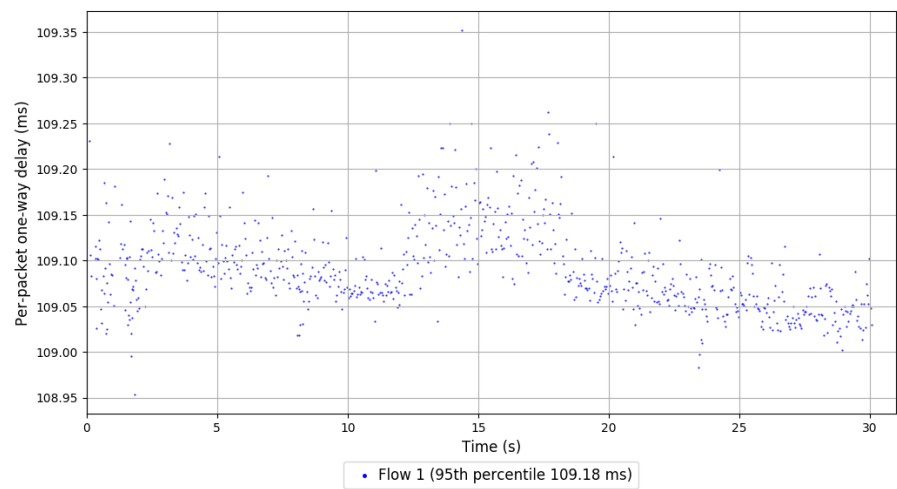
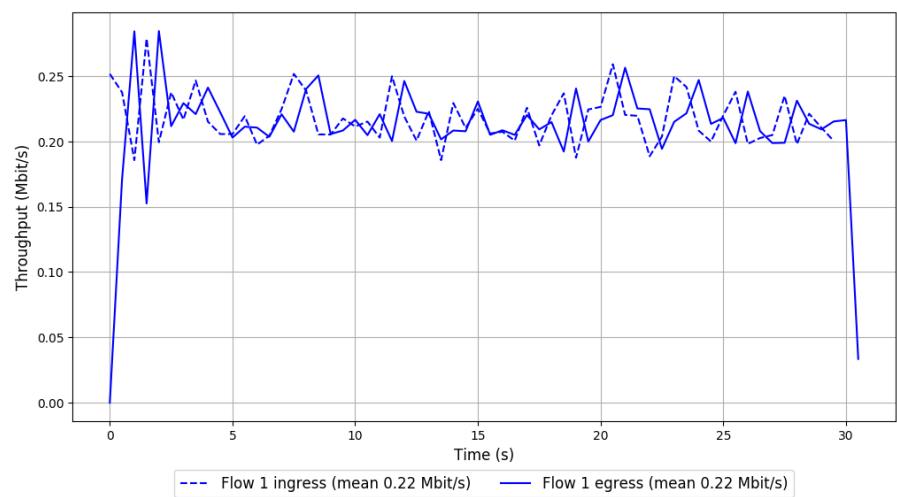
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.179 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-01-17 05:45:40

End at: 2019-01-17 05:46:10

Local clock offset: 0.393 ms

Remote clock offset: 0.478 ms

Below is generated by plot.py at 2019-01-17 09:45:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.665 ms

Loss rate: 0.00%

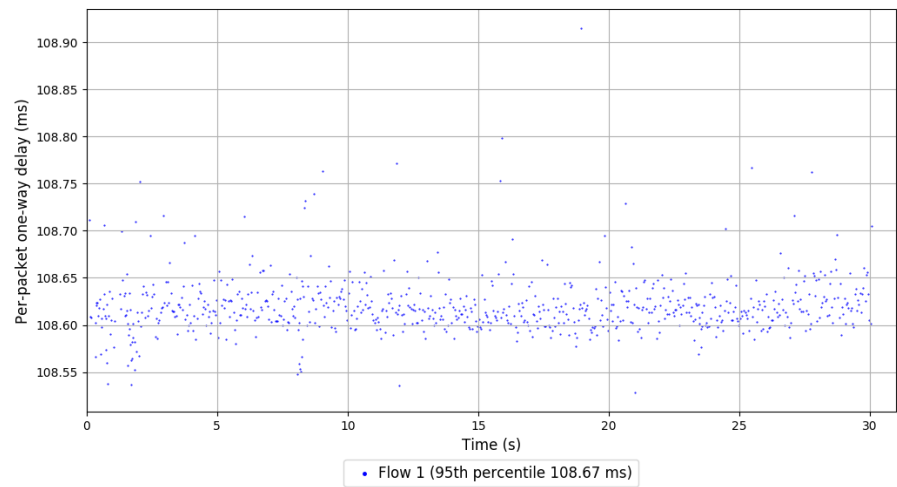
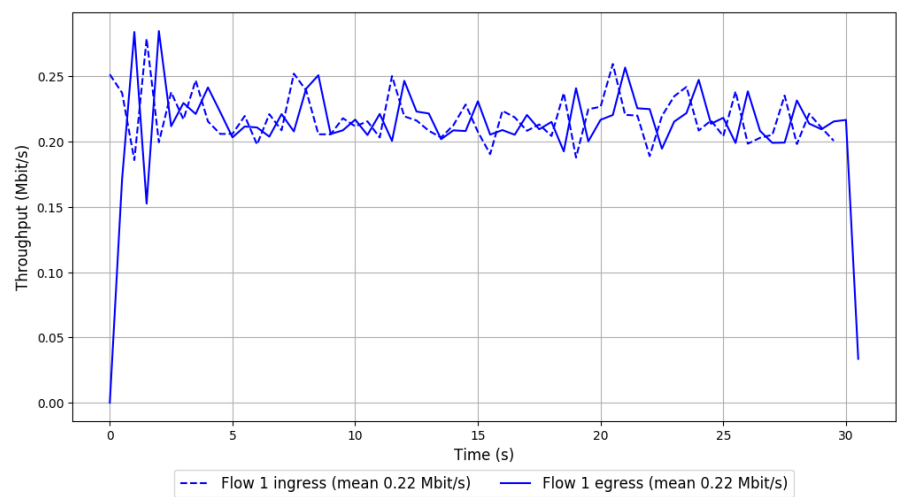
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.665 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-01-17 06:16:52

End at: 2019-01-17 06:17:22

Local clock offset: 0.241 ms

Remote clock offset: 0.319 ms

Below is generated by plot.py at 2019-01-17 09:45:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.714 ms

Loss rate: 0.00%

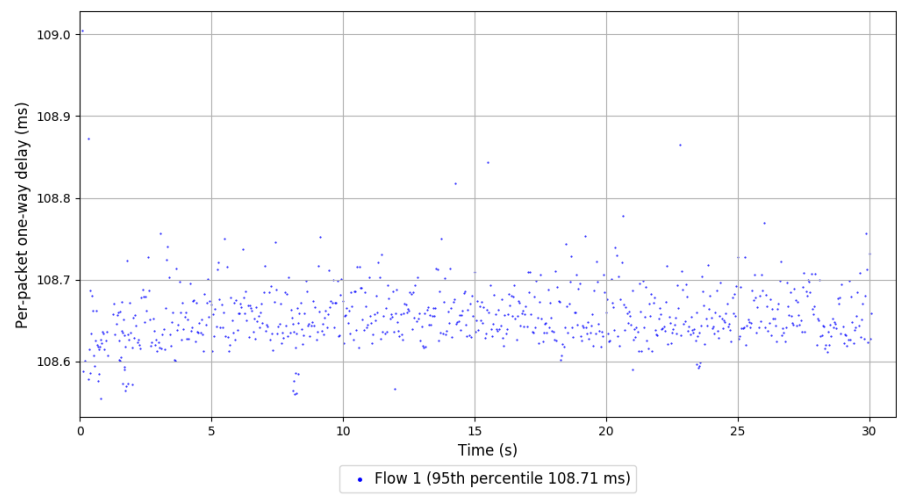
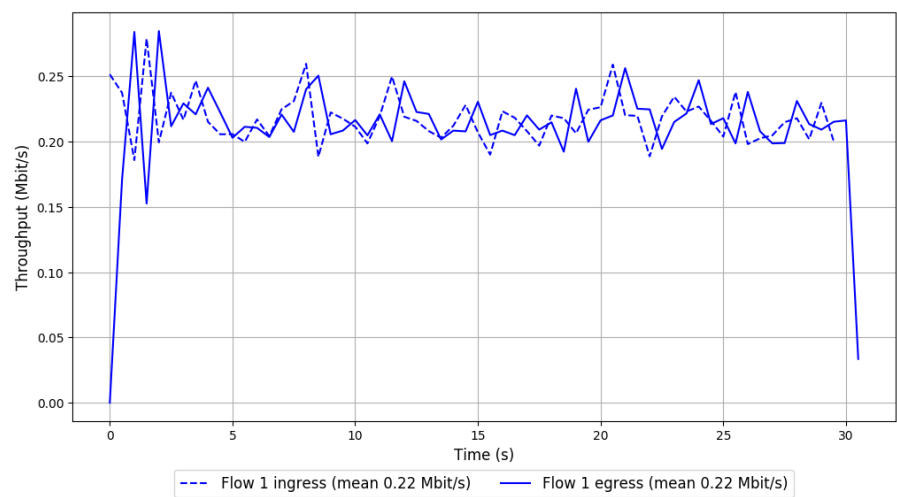
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.714 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-01-17 06:48:13

End at: 2019-01-17 06:48:43

Local clock offset: -0.709 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2019-01-17 09:45:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.984 ms

Loss rate: 0.00%

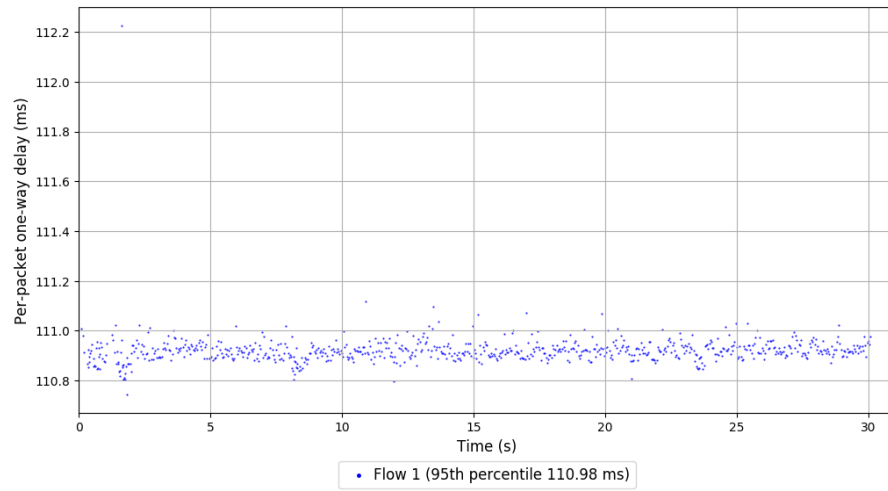
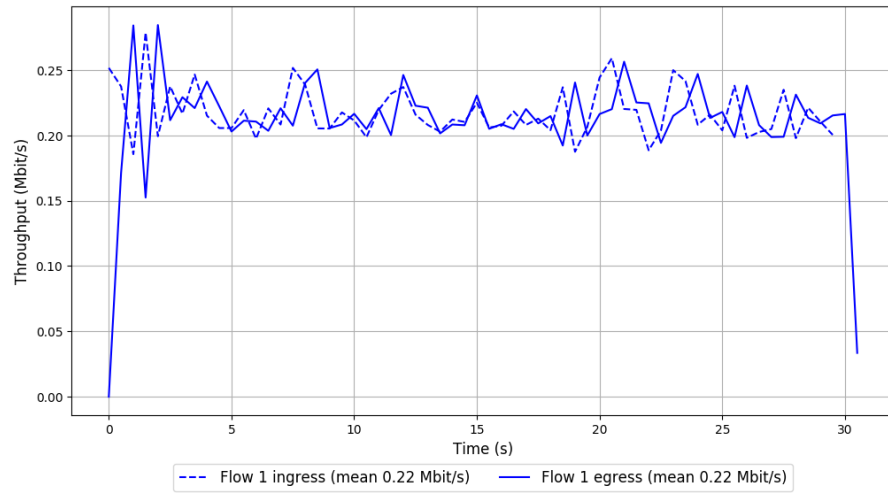
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.984 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

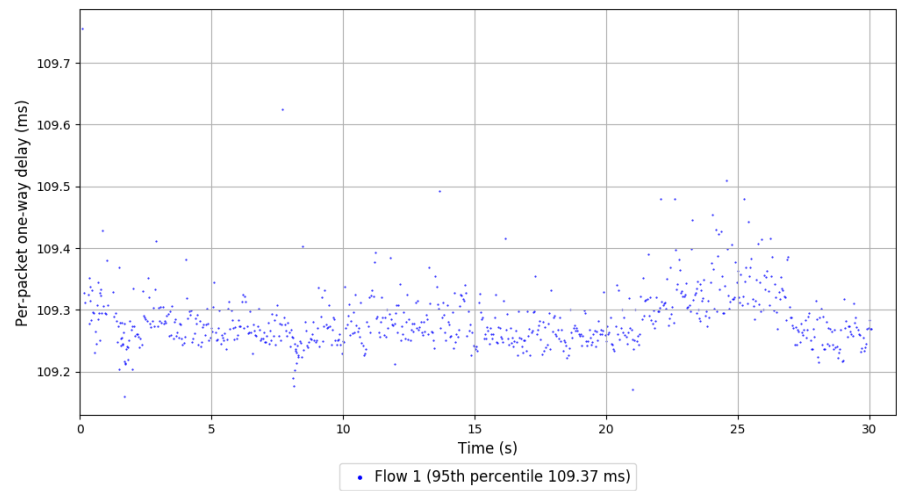
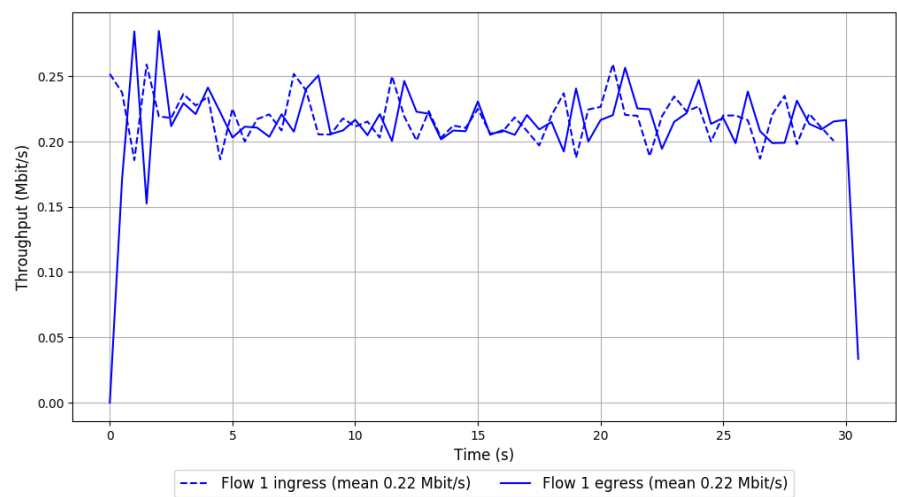


Run 5: Statistics of SCReAM

Start at: 2019-01-17 07:19:38
End at: 2019-01-17 07:20:08
Local clock offset: -0.267 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2019-01-17 09:45:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.369 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.369 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-17 05:36:34

End at: 2019-01-17 05:37:04

Local clock offset: 1.303 ms

Remote clock offset: 0.304 ms

Below is generated by plot.py at 2019-01-17 09:45:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 107.875 ms

Loss rate: 0.00%

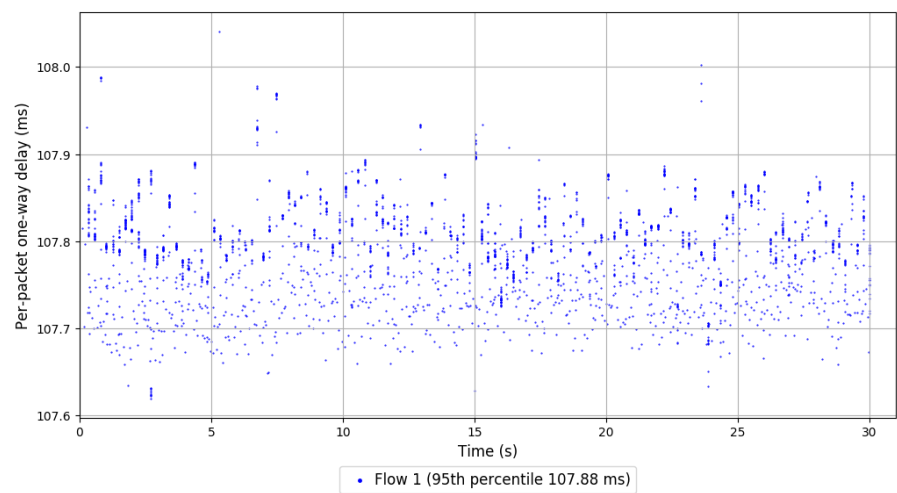
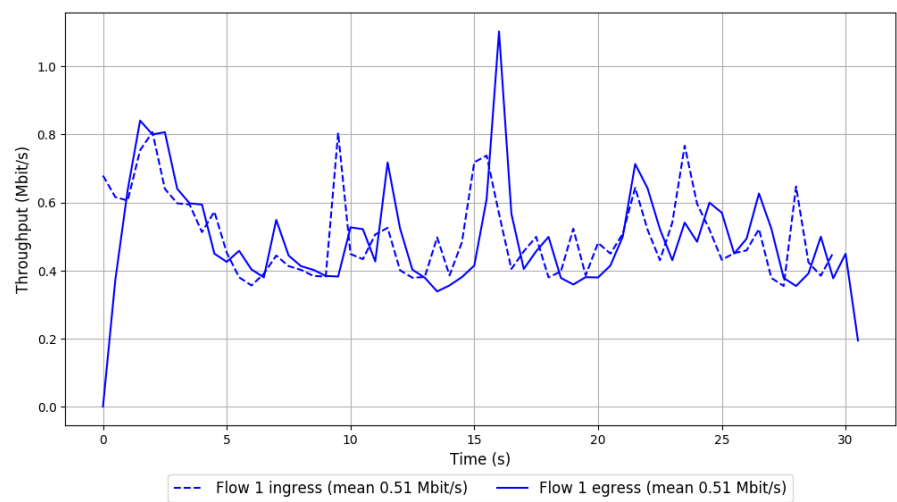
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 107.875 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-01-17 06:07:53

End at: 2019-01-17 06:08:23

Local clock offset: 0.129 ms

Remote clock offset: 0.255 ms

Below is generated by plot.py at 2019-01-17 09:45:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 110.177 ms

Loss rate: 0.00%

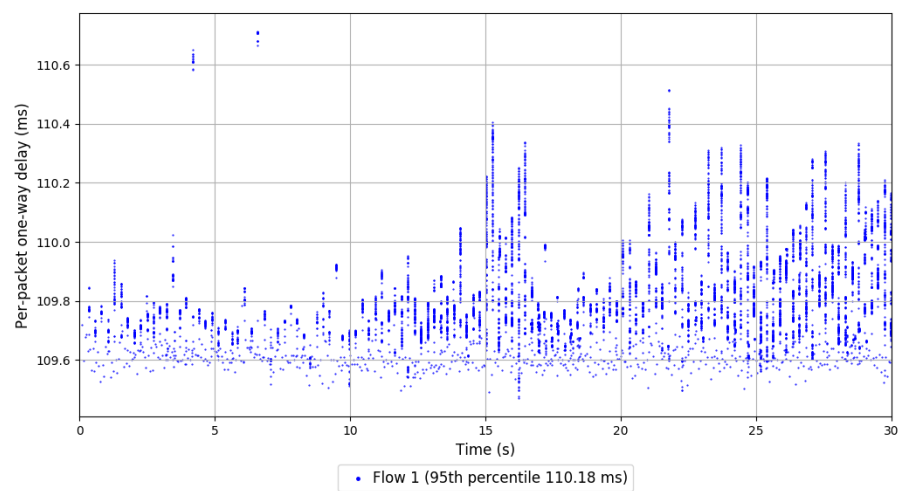
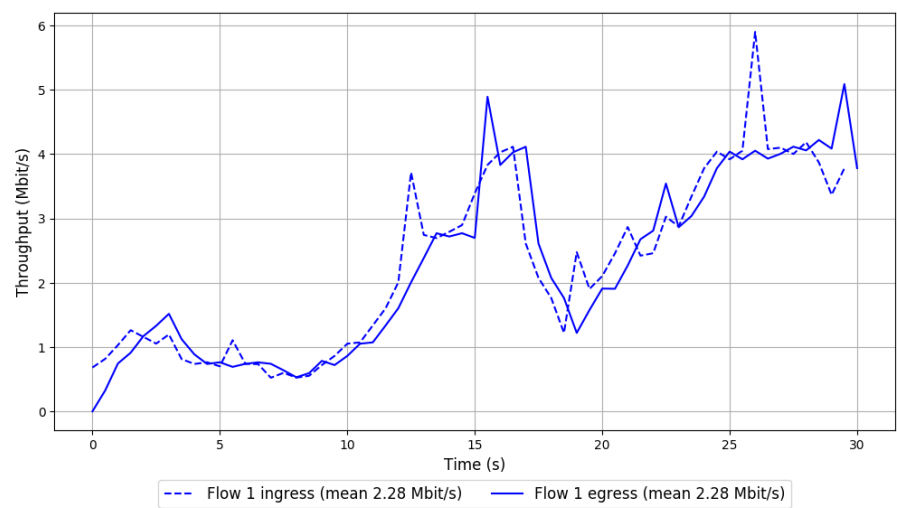
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 110.177 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-01-17 06:38:57

End at: 2019-01-17 06:39:28

Local clock offset: 0.669 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2019-01-17 09:45:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 108.608 ms

Loss rate: 0.00%

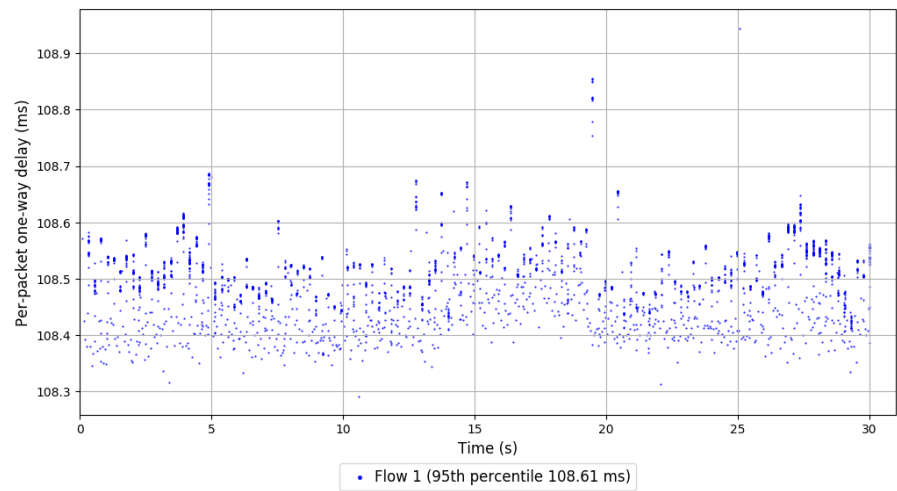
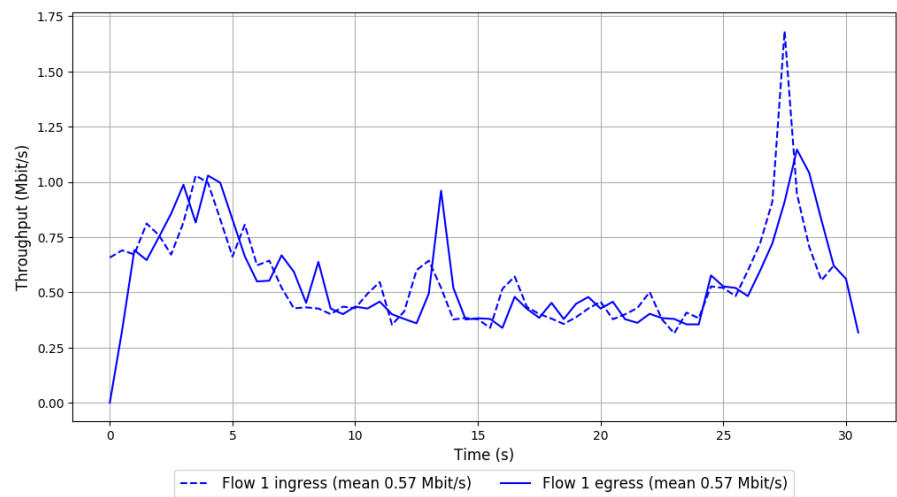
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 108.608 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

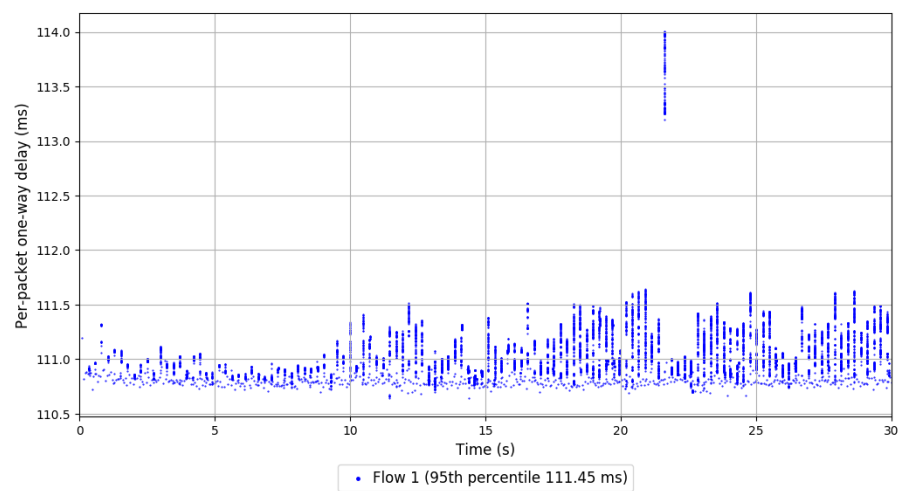
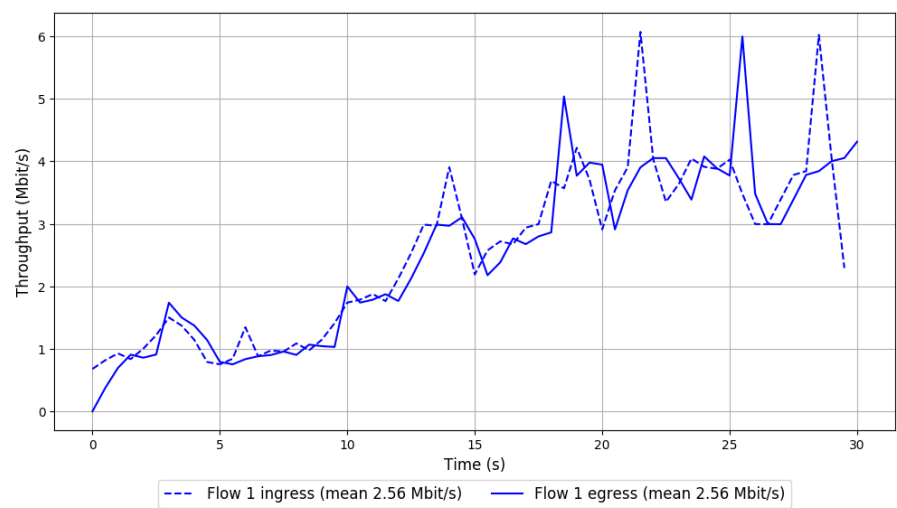


Run 4: Statistics of Sprout

Start at: 2019-01-17 07:10:22
End at: 2019-01-17 07:10:52
Local clock offset: -1.418 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2019-01-17 09:45:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 111.449 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 111.449 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

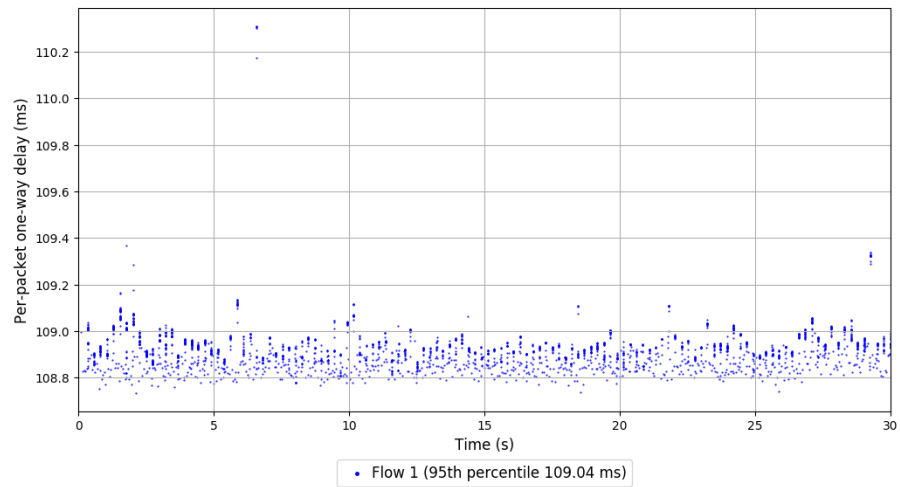
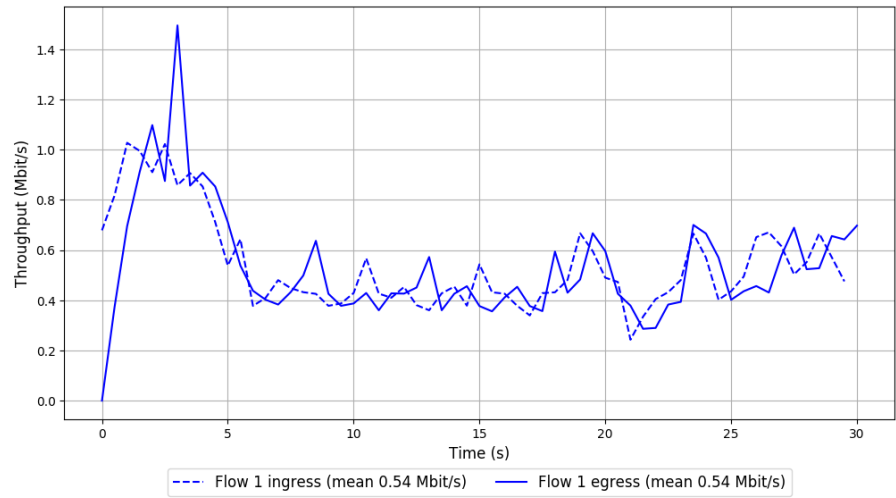


Run 5: Statistics of Sprout

Start at: 2019-01-17 07:41:42
End at: 2019-01-17 07:42:12
Local clock offset: -0.86 ms
Remote clock offset: -0.408 ms

Below is generated by plot.py at 2019-01-17 09:45:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 109.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 109.044 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

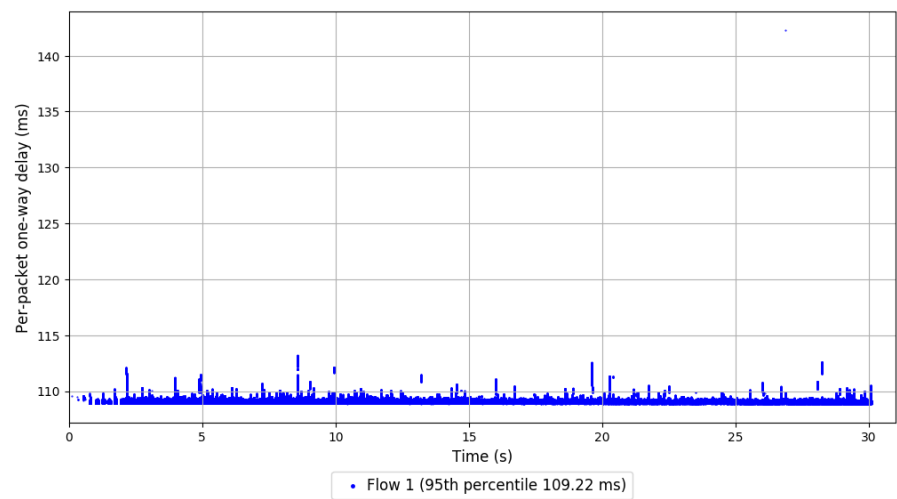
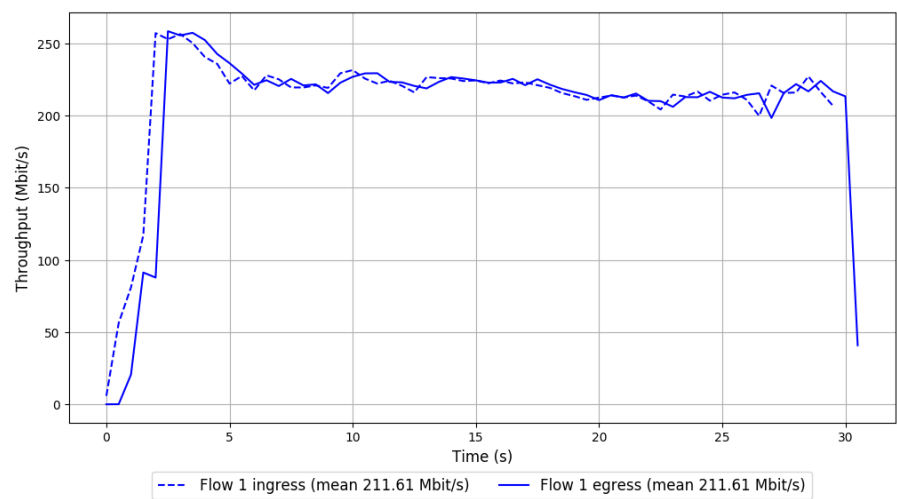



```
Run 1: Statistics of TaoVA-100x

Start at: 2019-01-17 05:11:08
End at: 2019-01-17 05:11:38
Local clock offset: 2.689 ms
Remote clock offset: 1.235 ms

# Below is generated by plot.py at 2019-01-17 09:45:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.61 Mbit/s
95th percentile per-packet one-way delay: 109.221 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.61 Mbit/s
95th percentile per-packet one-way delay: 109.221 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-17 05:42:26

End at: 2019-01-17 05:42:56

Local clock offset: 0.727 ms

Remote clock offset: 0.714 ms

Below is generated by plot.py at 2019-01-17 09:45:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.82 Mbit/s

95th percentile per-packet one-way delay: 109.432 ms

Loss rate: 0.00%

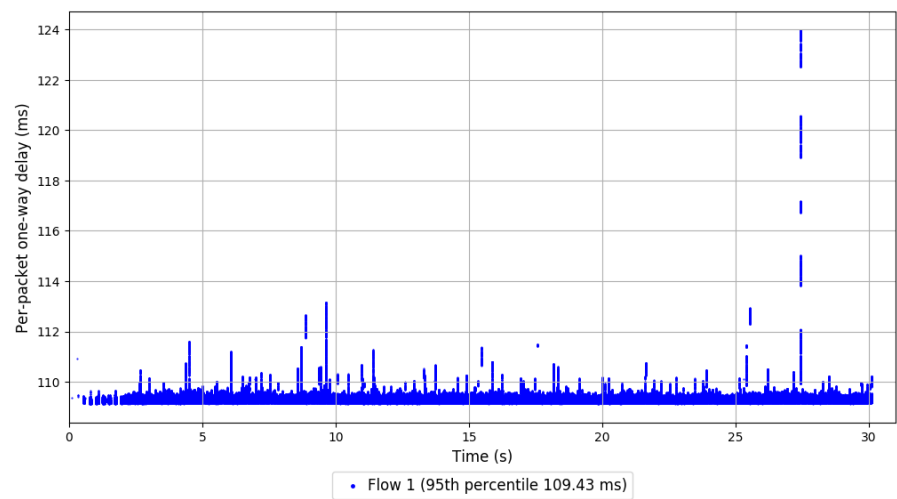
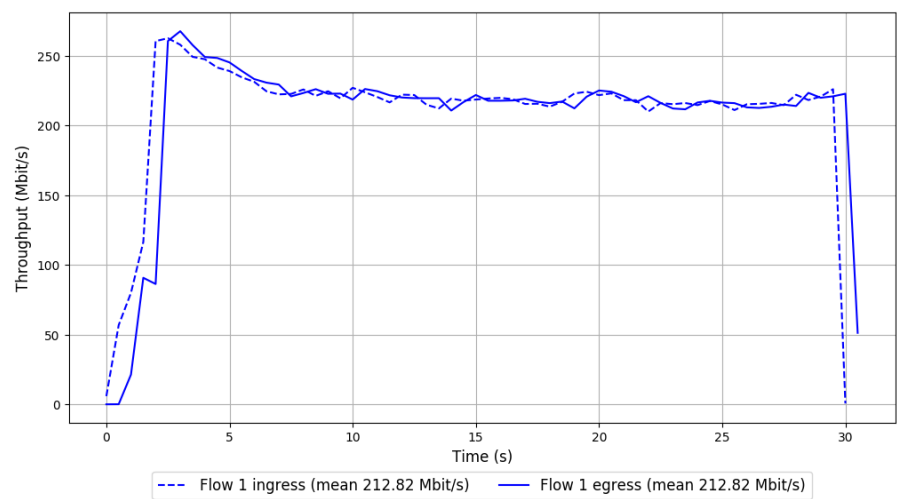
-- Flow 1:

Average throughput: 212.82 Mbit/s

95th percentile per-packet one-way delay: 109.432 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-01-17 06:13:42

End at: 2019-01-17 06:14:12

Local clock offset: 0.364 ms

Remote clock offset: 0.682 ms

Below is generated by plot.py at 2019-01-17 09:45:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.57 Mbit/s

95th percentile per-packet one-way delay: 109.695 ms

Loss rate: 0.00%

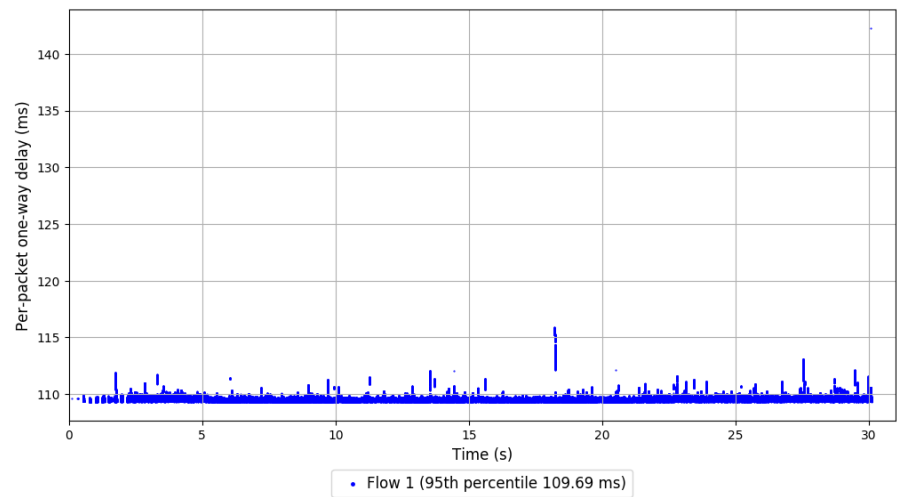
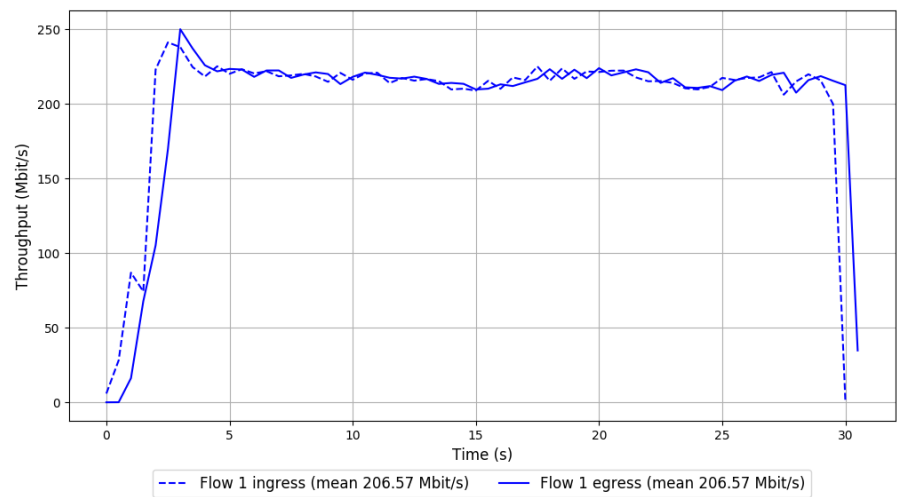
-- Flow 1:

Average throughput: 206.57 Mbit/s

95th percentile per-packet one-way delay: 109.695 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-17 06:45:21

End at: 2019-01-17 06:45:51

Local clock offset: 0.15 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2019-01-17 09:45:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.85 Mbit/s

95th percentile per-packet one-way delay: 109.679 ms

Loss rate: 0.00%

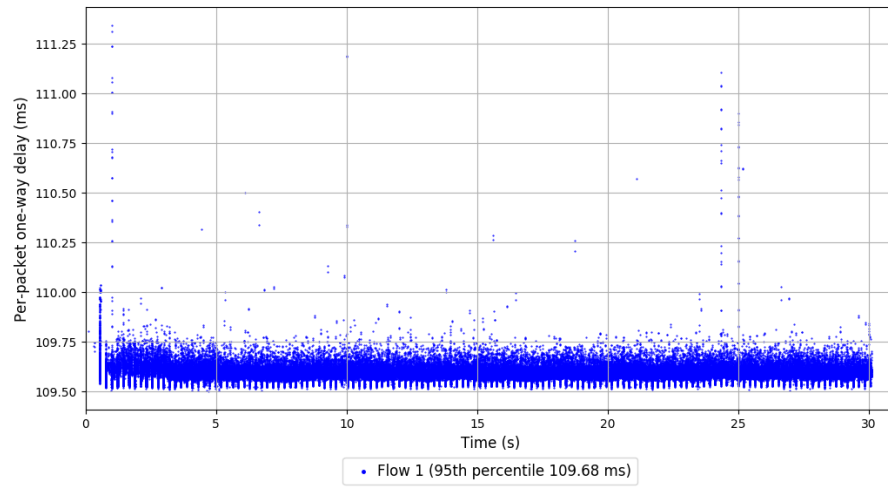
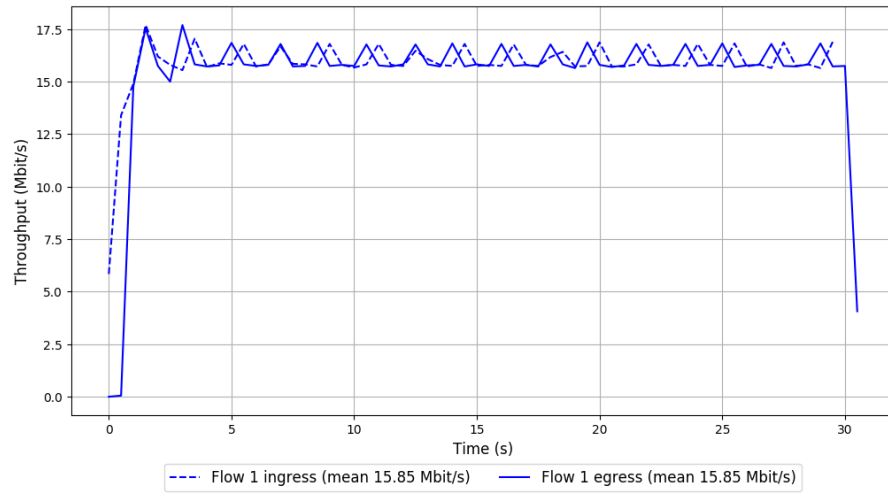
-- Flow 1:

Average throughput: 15.85 Mbit/s

95th percentile per-packet one-way delay: 109.679 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-01-17 07:16:46

End at: 2019-01-17 07:17:16

Local clock offset: -0.051 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2019-01-17 09:45:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.97 Mbit/s

95th percentile per-packet one-way delay: 108.530 ms

Loss rate: 0.00%

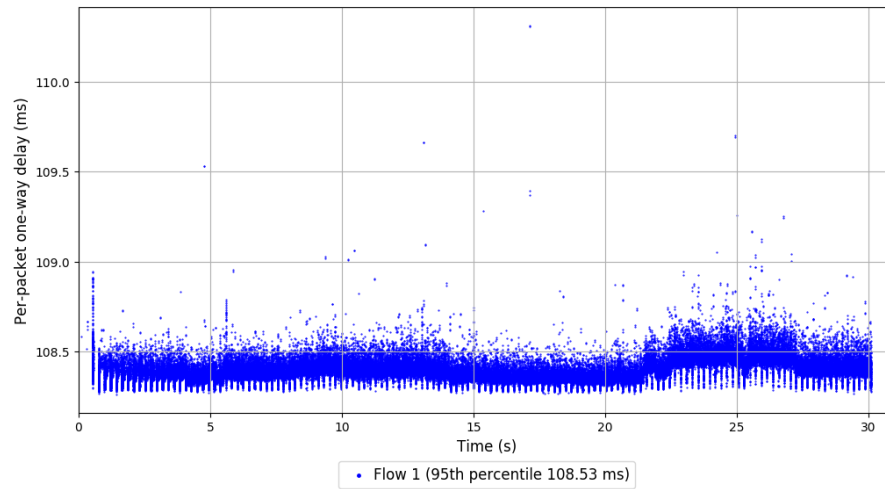
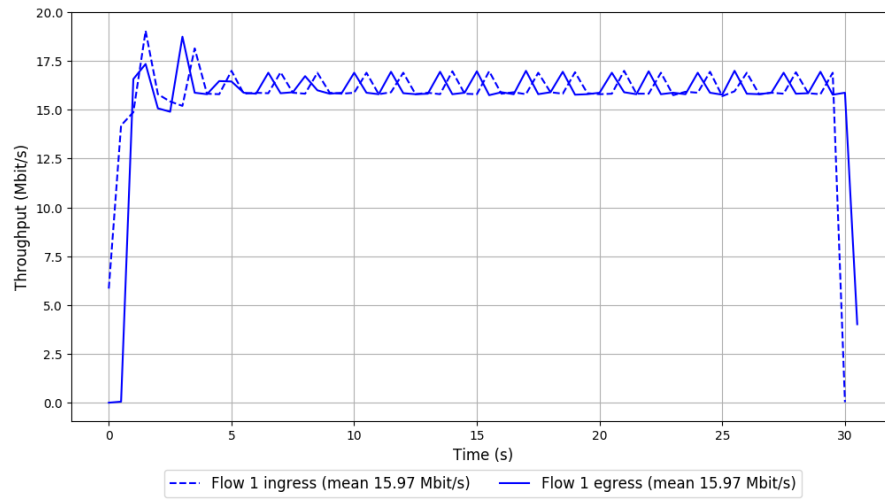
-- Flow 1:

Average throughput: 15.97 Mbit/s

95th percentile per-packet one-way delay: 108.530 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-01-17 05:31:59

End at: 2019-01-17 05:32:29

Local clock offset: 1.23 ms

Remote clock offset: 0.61 ms

Below is generated by plot.py at 2019-01-17 09:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.27 Mbit/s

95th percentile per-packet one-way delay: 108.952 ms

Loss rate: 0.00%

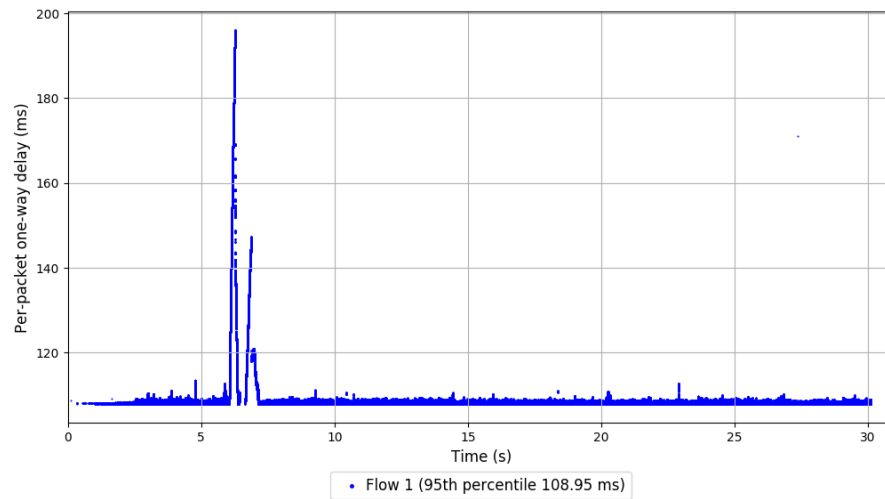
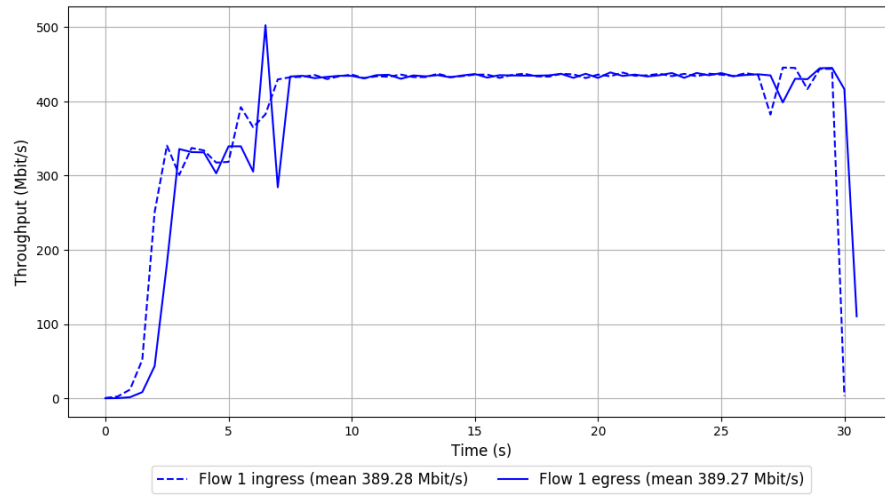
-- Flow 1:

Average throughput: 389.27 Mbit/s

95th percentile per-packet one-way delay: 108.952 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-01-17 06:03:15

End at: 2019-01-17 06:03:45

Local clock offset: 0.236 ms

Remote clock offset: 0.247 ms

Below is generated by plot.py at 2019-01-17 09:52:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 601.73 Mbit/s

95th percentile per-packet one-way delay: 166.606 ms

Loss rate: 0.17%

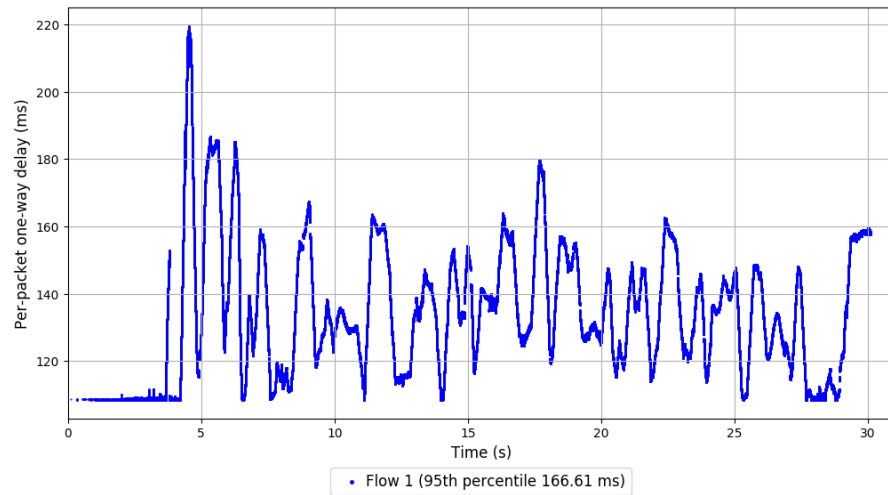
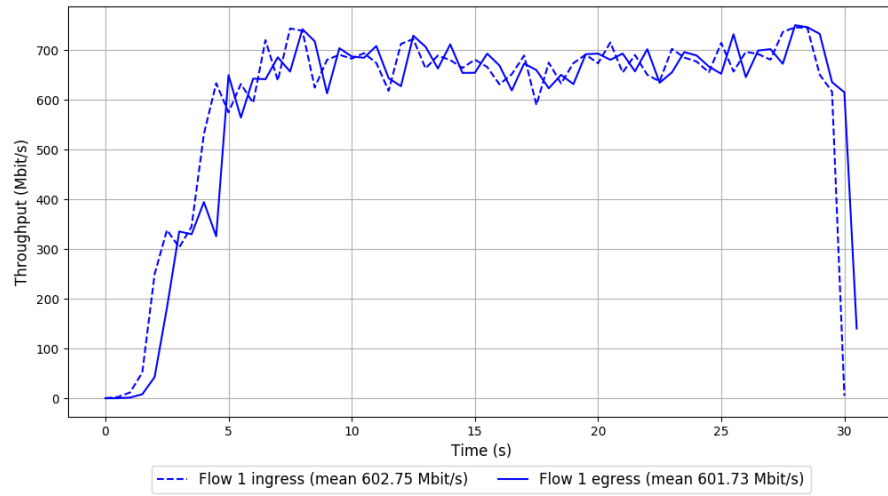
-- Flow 1:

Average throughput: 601.73 Mbit/s

95th percentile per-packet one-way delay: 166.606 ms

Loss rate: 0.17%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-01-17 06:34:27

End at: 2019-01-17 06:34:57

Local clock offset: 0.468 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2019-01-17 09:52:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.83 Mbit/s

95th percentile per-packet one-way delay: 109.427 ms

Loss rate: 0.00%

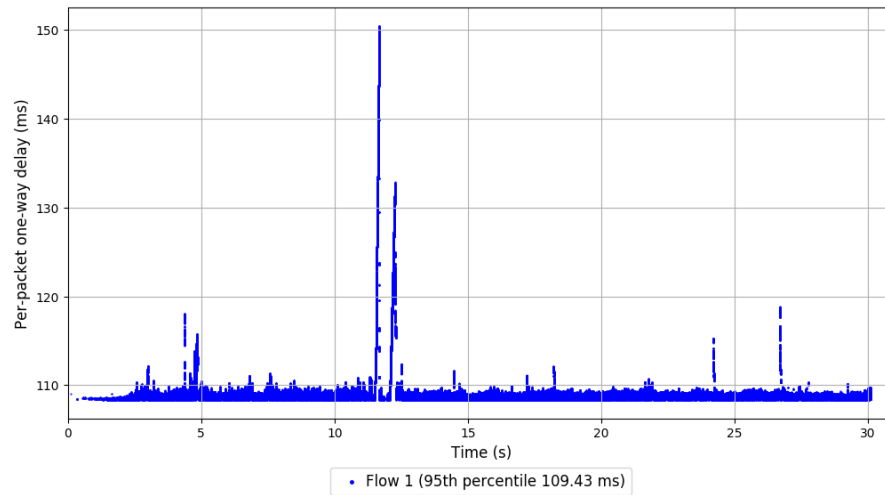
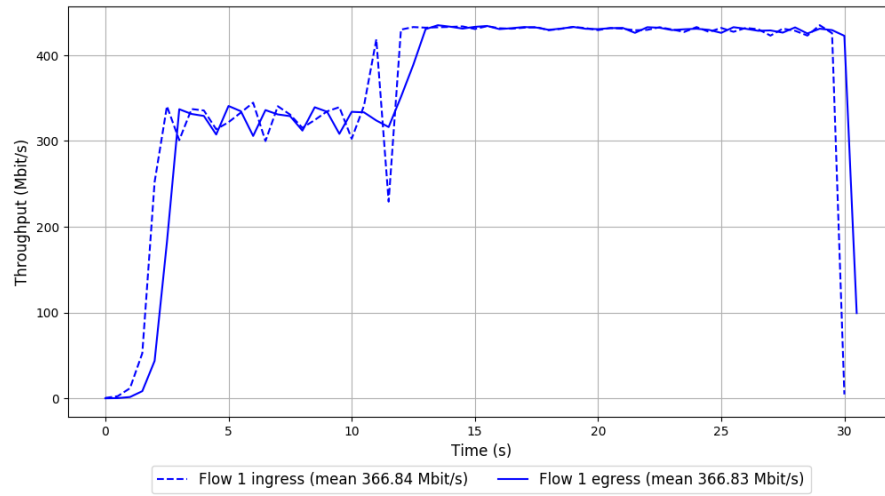
-- Flow 1:

Average throughput: 366.83 Mbit/s

95th percentile per-packet one-way delay: 109.427 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-01-17 07:05:49

End at: 2019-01-17 07:06:19

Local clock offset: -0.131 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2019-01-17 09:53:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.65 Mbit/s

95th percentile per-packet one-way delay: 109.586 ms

Loss rate: 0.00%

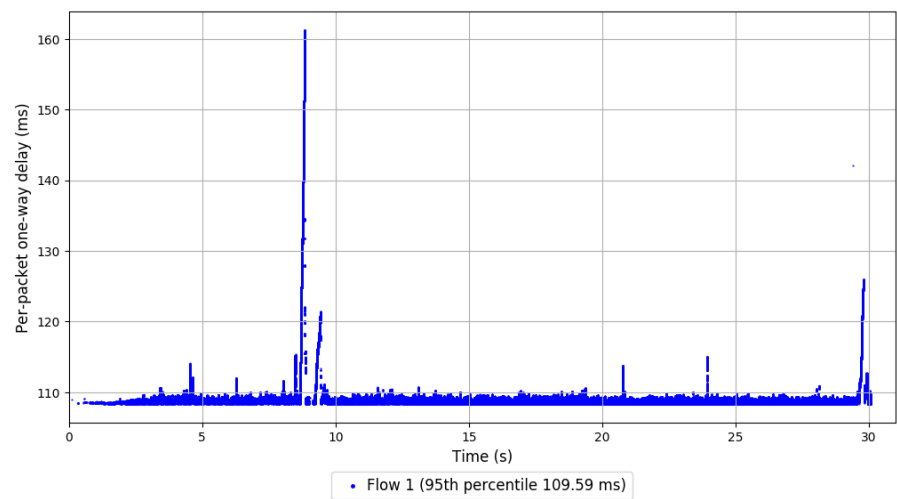
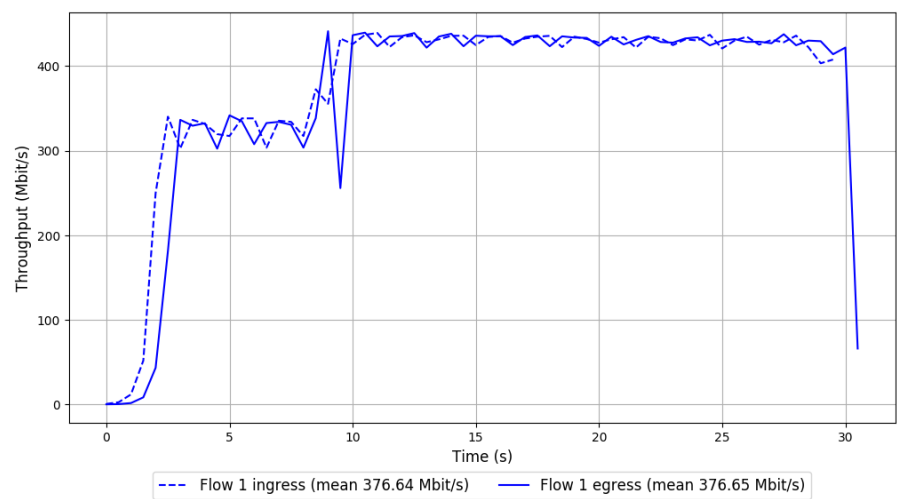
-- Flow 1:

Average throughput: 376.65 Mbit/s

95th percentile per-packet one-way delay: 109.586 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-01-17 07:37:09

End at: 2019-01-17 07:37:39

Local clock offset: -0.709 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2019-01-17 09:53:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.15 Mbit/s

95th percentile per-packet one-way delay: 111.086 ms

Loss rate: 0.00%

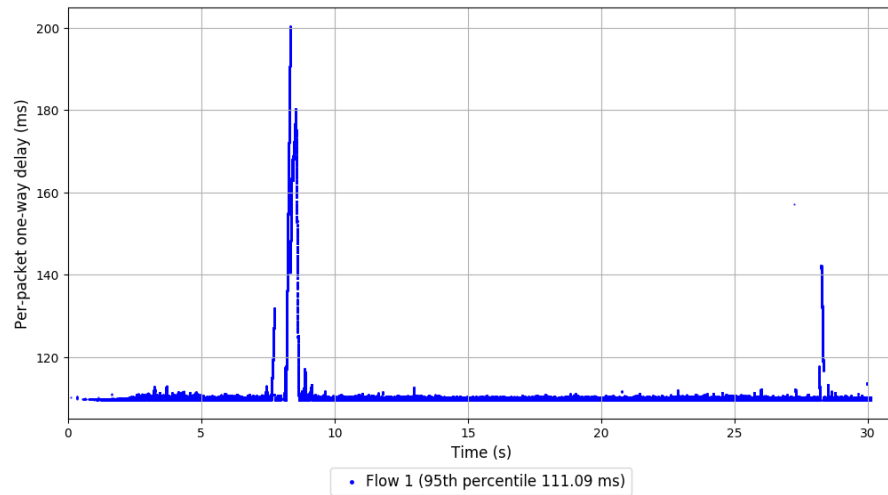
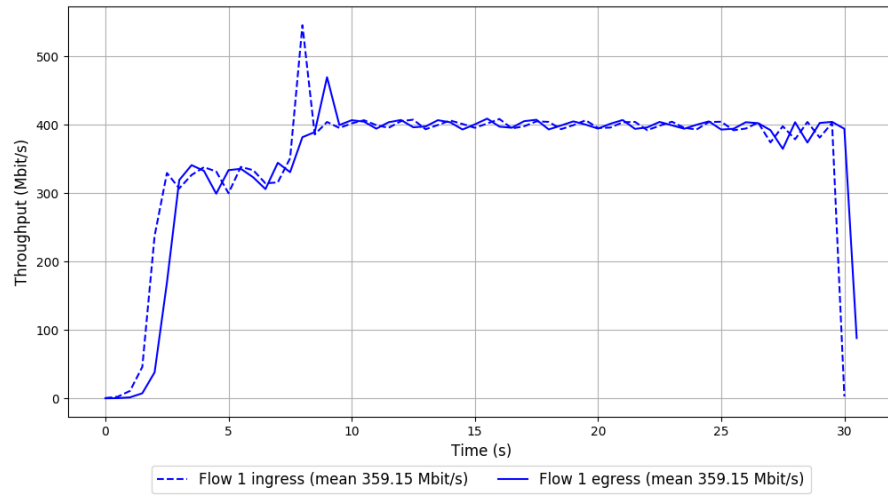
-- Flow 1:

Average throughput: 359.15 Mbit/s

95th percentile per-packet one-way delay: 111.086 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-01-17 05:35:07

End at: 2019-01-17 05:35:37

Local clock offset: 1.864 ms

Remote clock offset: 0.674 ms

Below is generated by plot.py at 2019-01-17 09:53:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.00 Mbit/s

95th percentile per-packet one-way delay: 277.222 ms

Loss rate: 12.69%

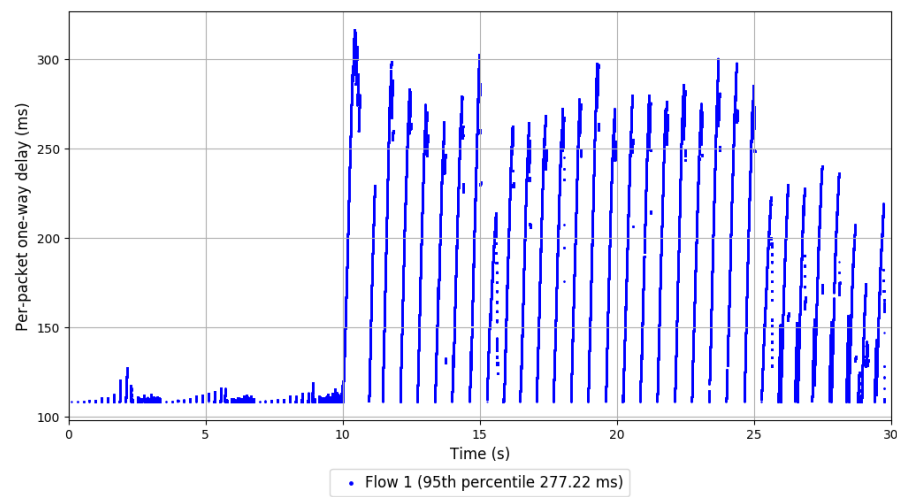
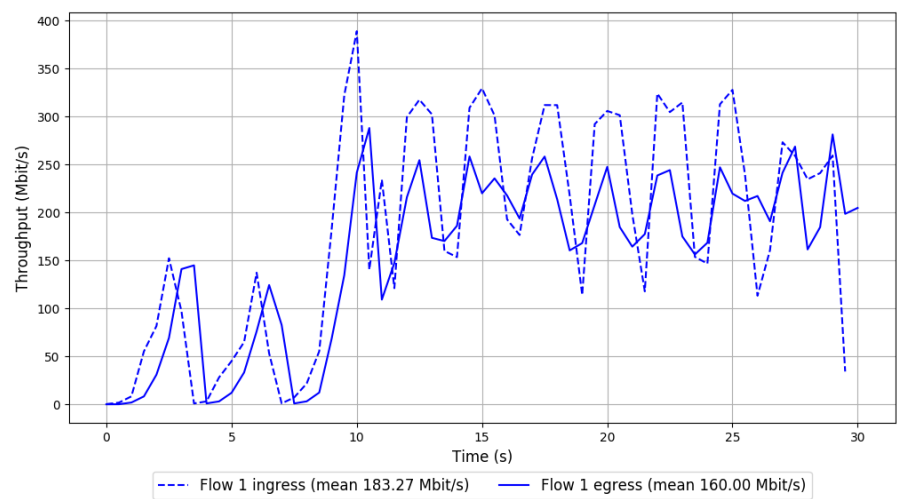
-- Flow 1:

Average throughput: 160.00 Mbit/s

95th percentile per-packet one-way delay: 277.222 ms

Loss rate: 12.69%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-01-17 06:06:33

End at: 2019-01-17 06:07:03

Local clock offset: 0.329 ms

Remote clock offset: 0.243 ms

Below is generated by plot.py at 2019-01-17 09:53:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 127.196 ms

Loss rate: 0.00%

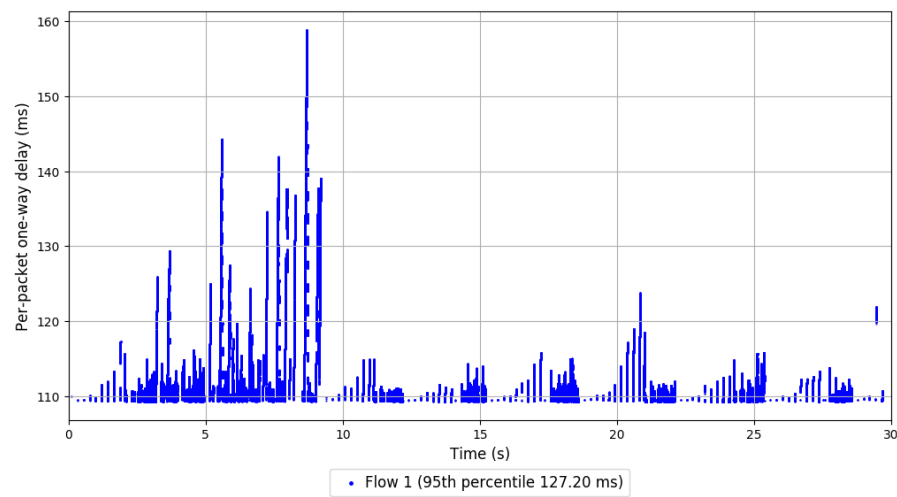
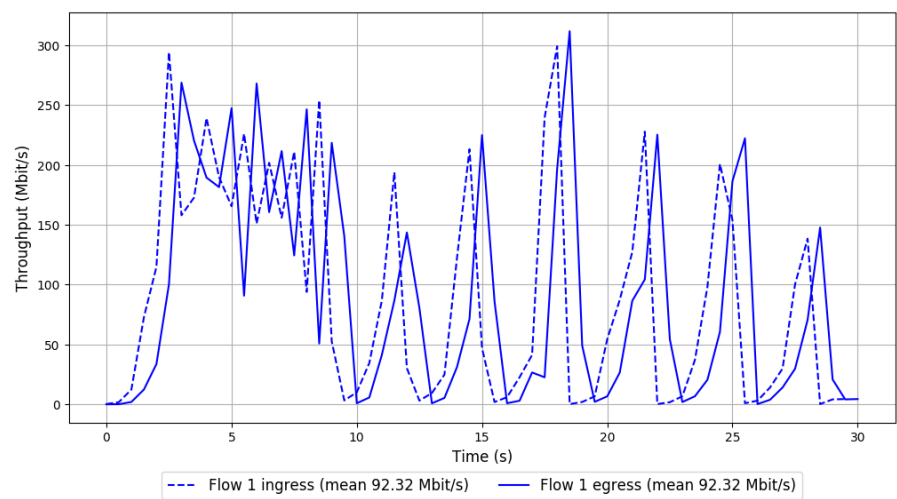
-- Flow 1:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 127.196 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-01-17 06:37:33

End at: 2019-01-17 06:38:03

Local clock offset: 1.989 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2019-01-17 09:53:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.47 Mbit/s

95th percentile per-packet one-way delay: 213.934 ms

Loss rate: 0.20%

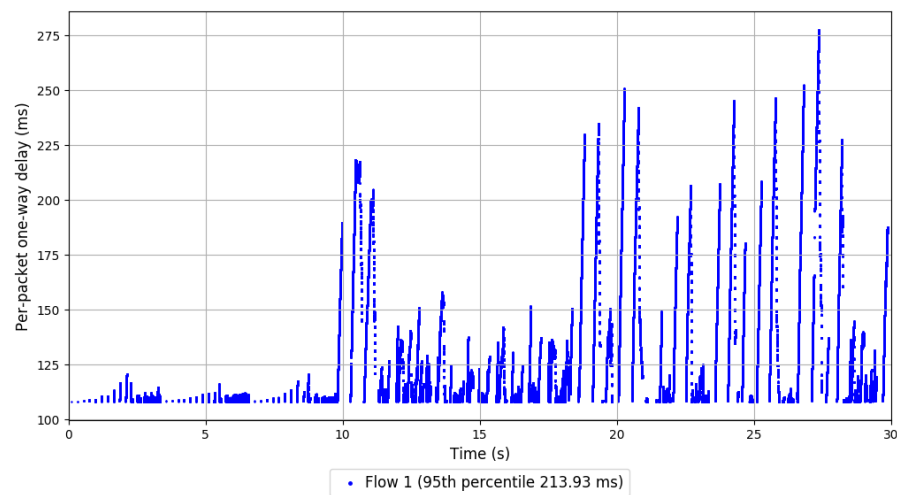
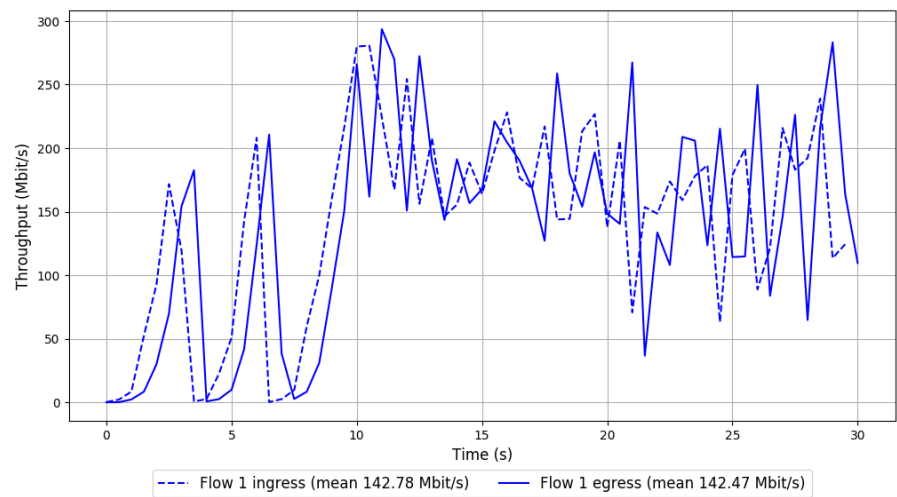
-- Flow 1:

Average throughput: 142.47 Mbit/s

95th percentile per-packet one-way delay: 213.934 ms

Loss rate: 0.20%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-01-17 07:08:55

End at: 2019-01-17 07:09:25

Local clock offset: -0.676 ms

Remote clock offset: 0.257 ms

Below is generated by plot.py at 2019-01-17 09:53:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.43 Mbit/s

95th percentile per-packet one-way delay: 175.086 ms

Loss rate: 0.23%

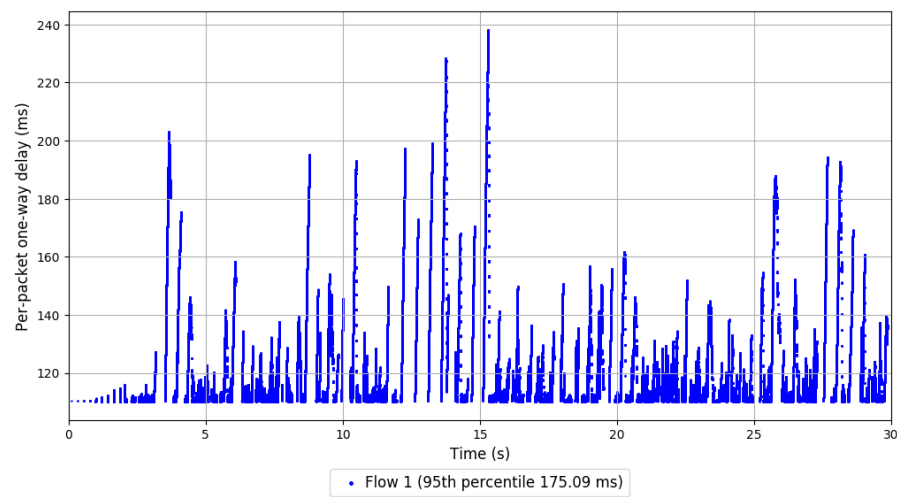
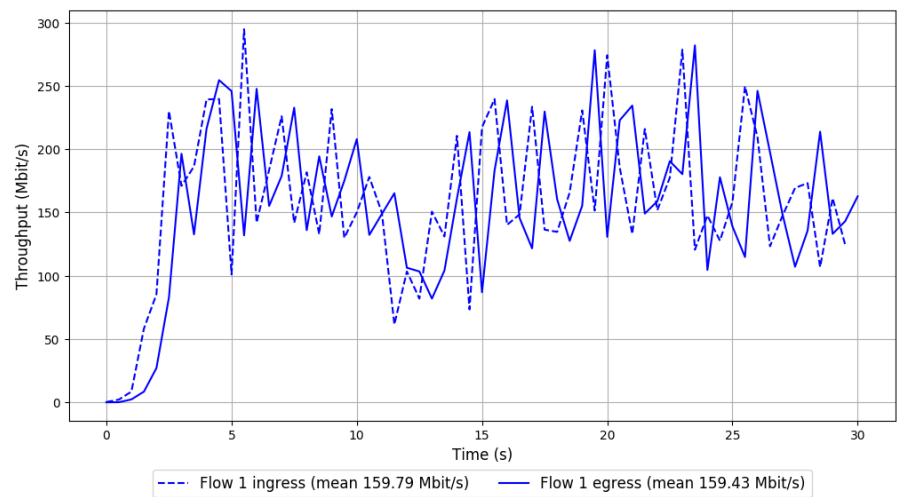
-- Flow 1:

Average throughput: 159.43 Mbit/s

95th percentile per-packet one-way delay: 175.086 ms

Loss rate: 0.23%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-01-17 07:40:19

End at: 2019-01-17 07:40:49

Local clock offset: -0.758 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2019-01-17 09:53:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.35 Mbit/s

95th percentile per-packet one-way delay: 150.166 ms

Loss rate: 0.00%

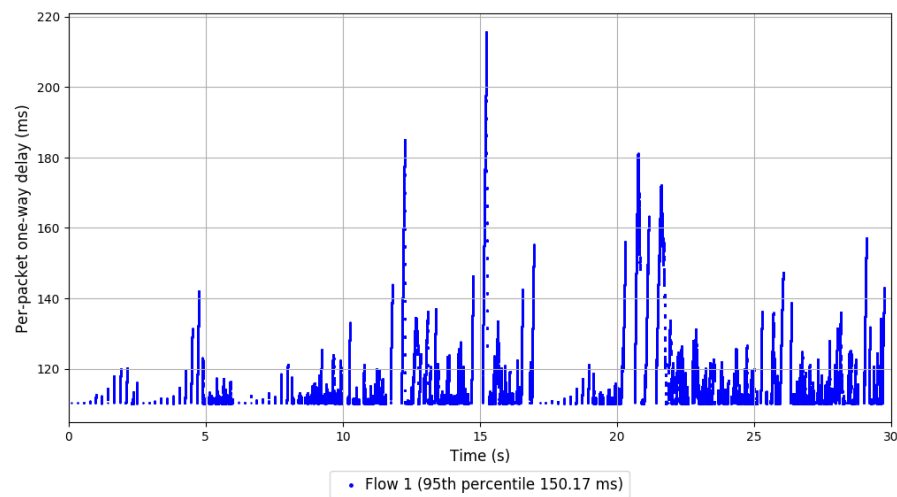
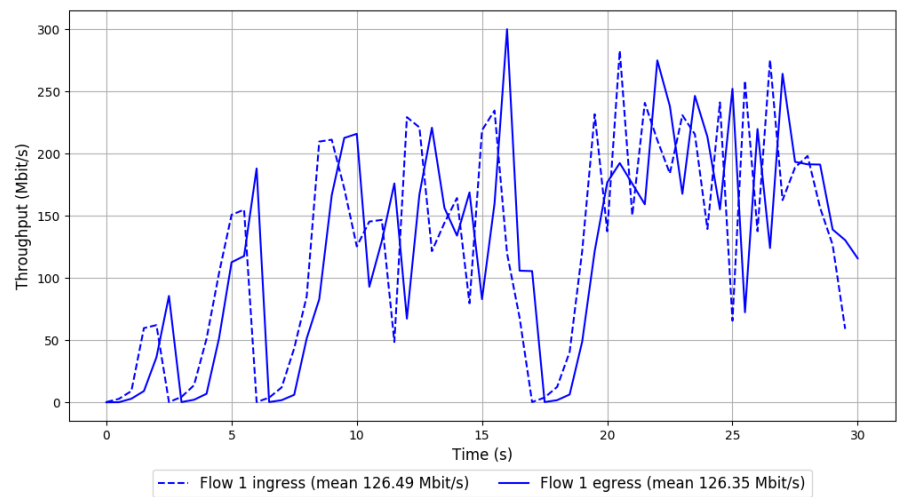
-- Flow 1:

Average throughput: 126.35 Mbit/s

95th percentile per-packet one-way delay: 150.166 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-17 05:30:21

End at: 2019-01-17 05:30:51

Local clock offset: 1.862 ms

Remote clock offset: 0.597 ms

Below is generated by plot.py at 2019-01-17 09:56:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.46 Mbit/s

95th percentile per-packet one-way delay: 111.258 ms

Loss rate: 0.00%

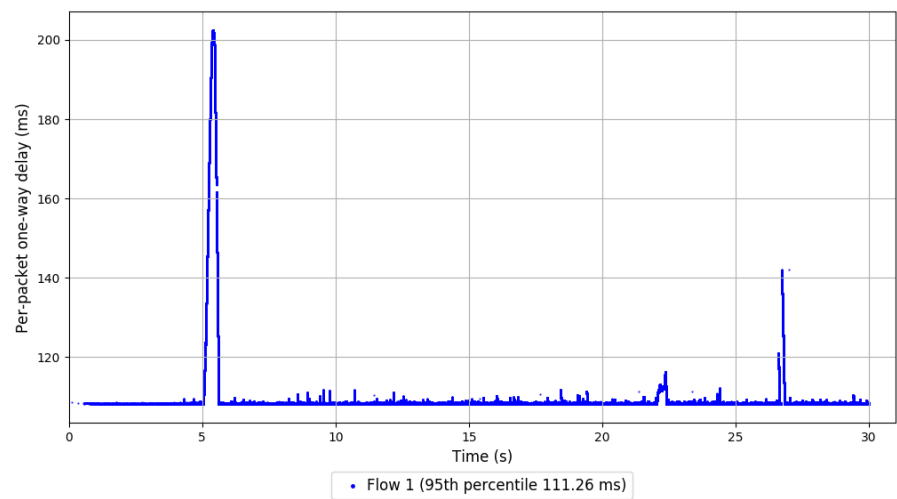
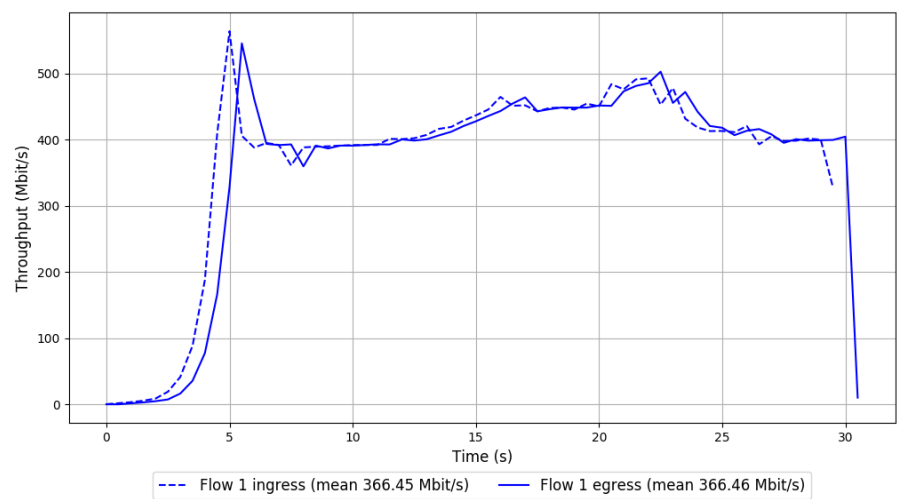
-- Flow 1:

Average throughput: 366.46 Mbit/s

95th percentile per-packet one-way delay: 111.258 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-01-17 06:01:38

End at: 2019-01-17 06:02:08

Local clock offset: -1.069 ms

Remote clock offset: 0.257 ms

Below is generated by plot.py at 2019-01-17 09:57:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.68 Mbit/s

95th percentile per-packet one-way delay: 111.605 ms

Loss rate: 0.19%

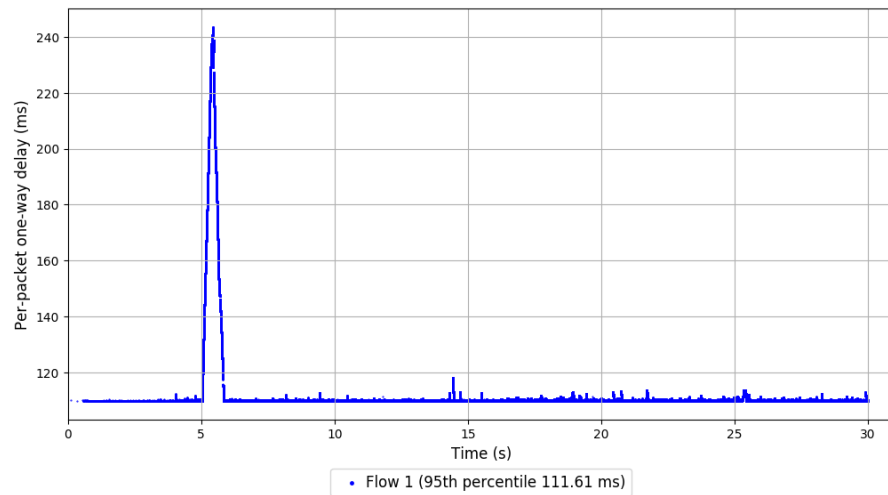
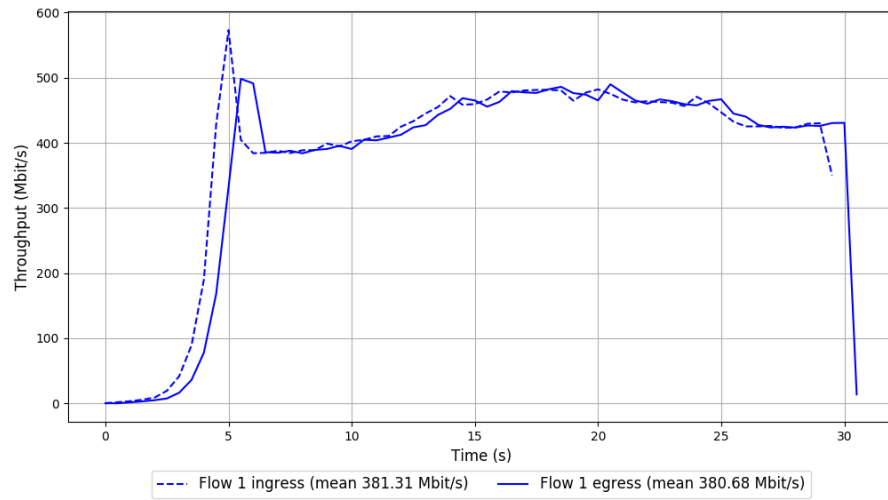
-- Flow 1:

Average throughput: 380.68 Mbit/s

95th percentile per-packet one-way delay: 111.605 ms

Loss rate: 0.19%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-01-17 06:32:49

End at: 2019-01-17 06:33:19

Local clock offset: 1.882 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2019-01-17 09:57:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.34 Mbit/s

95th percentile per-packet one-way delay: 182.121 ms

Loss rate: 0.04%

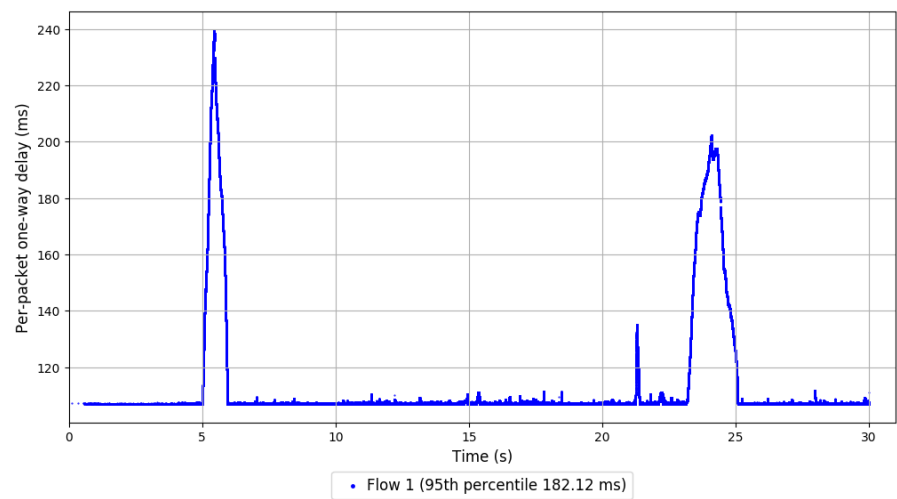
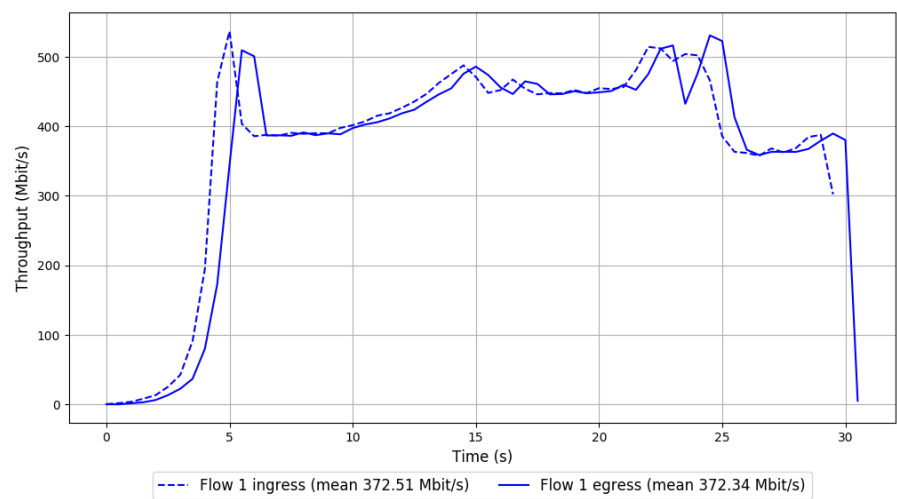
-- Flow 1:

Average throughput: 372.34 Mbit/s

95th percentile per-packet one-way delay: 182.121 ms

Loss rate: 0.04%

Run 3: Report of PCC-Vivace — Data Link

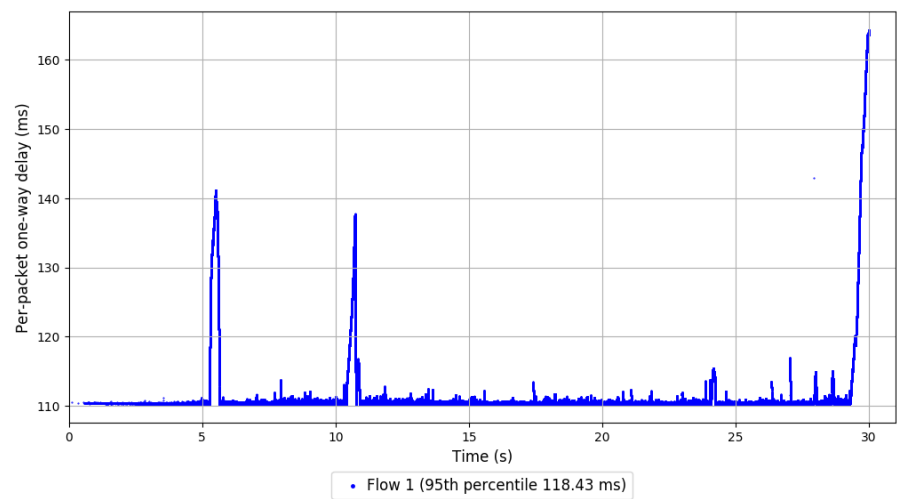
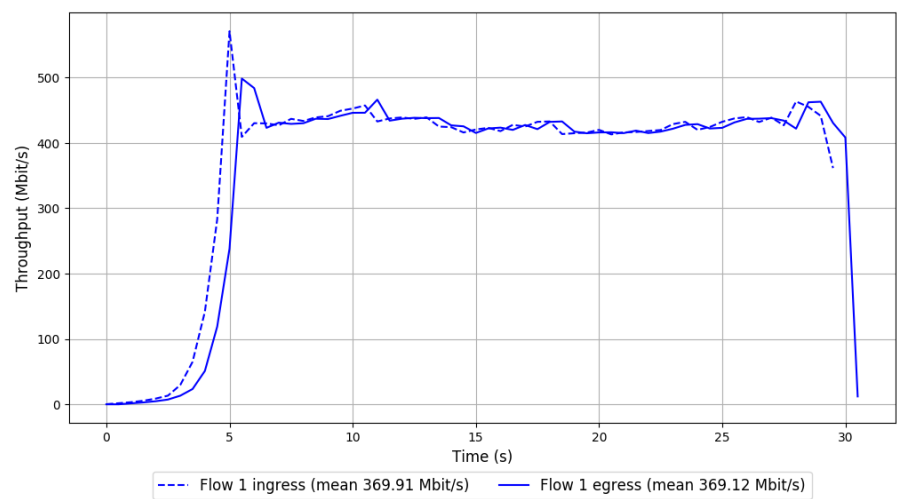


Run 4: Statistics of PCC-Vivace

Start at: 2019-01-17 07:04:12
End at: 2019-01-17 07:04:42
Local clock offset: -0.016 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2019-01-17 09:58:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 369.12 Mbit/s
95th percentile per-packet one-way delay: 118.434 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 369.12 Mbit/s
95th percentile per-packet one-way delay: 118.434 ms
Loss rate: 0.22%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-17 07:35:30

End at: 2019-01-17 07:36:00

Local clock offset: -0.25 ms

Remote clock offset: -0.049 ms

Below is generated by plot.py at 2019-01-17 09:58:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.94 Mbit/s

95th percentile per-packet one-way delay: 108.790 ms

Loss rate: 0.00%

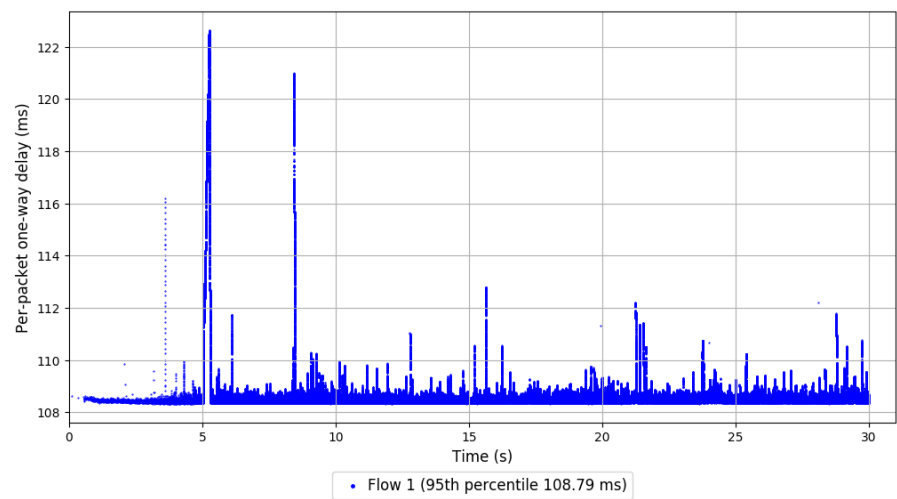
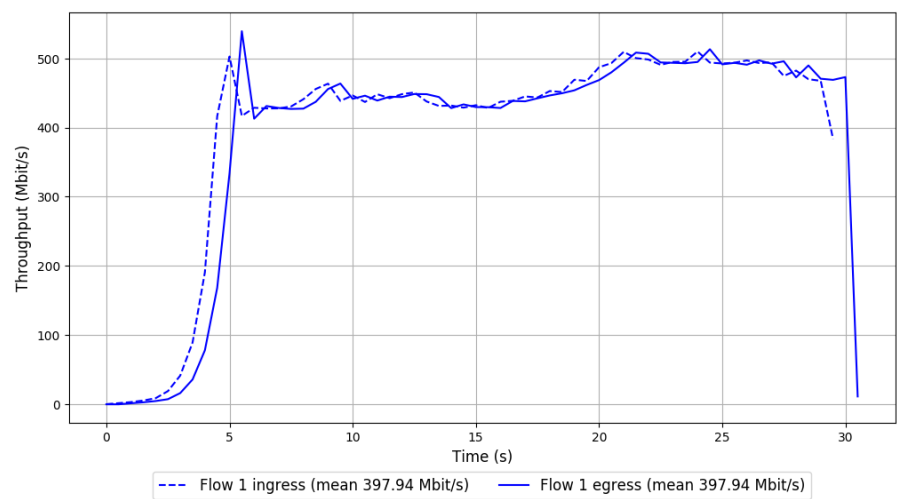
-- Flow 1:

Average throughput: 397.94 Mbit/s

95th percentile per-packet one-way delay: 108.790 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

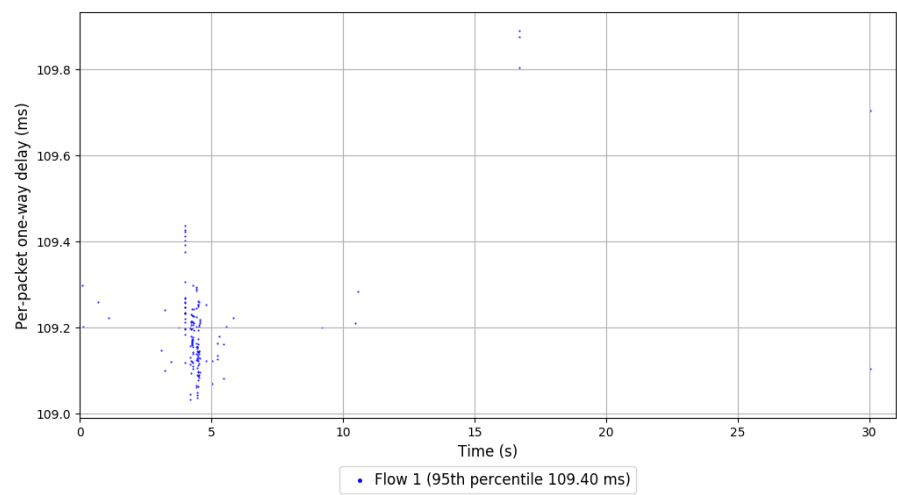
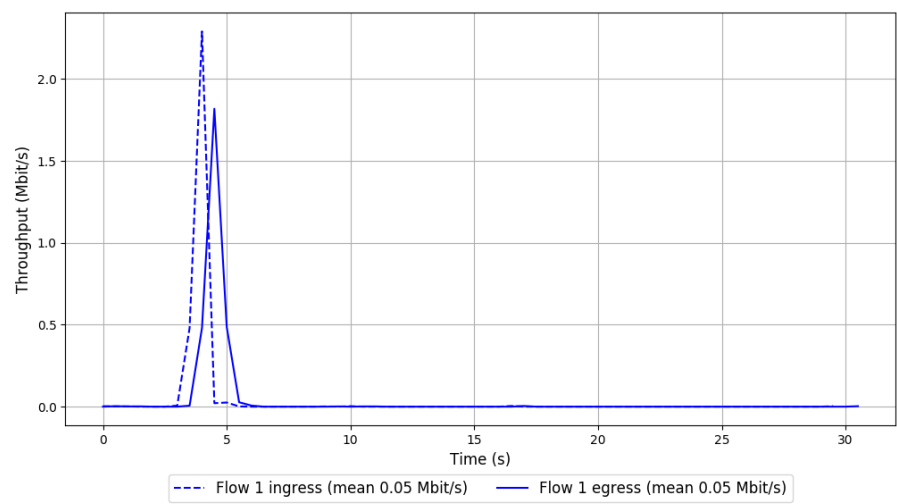



```
Run 1: Statistics of WebRTC media

Start at: 2019-01-17 05:15:28
End at: 2019-01-17 05:15:58
Local clock offset: 1.709 ms
Remote clock offset: 0.831 ms

# Below is generated by plot.py at 2019-01-17 09:58:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.403 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.403 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-01-17 05:46:50

End at: 2019-01-17 05:47:20

Local clock offset: 0.231 ms

Remote clock offset: 0.461 ms

Below is generated by plot.py at 2019-01-17 09:58:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 111.972 ms

Loss rate: 0.00%

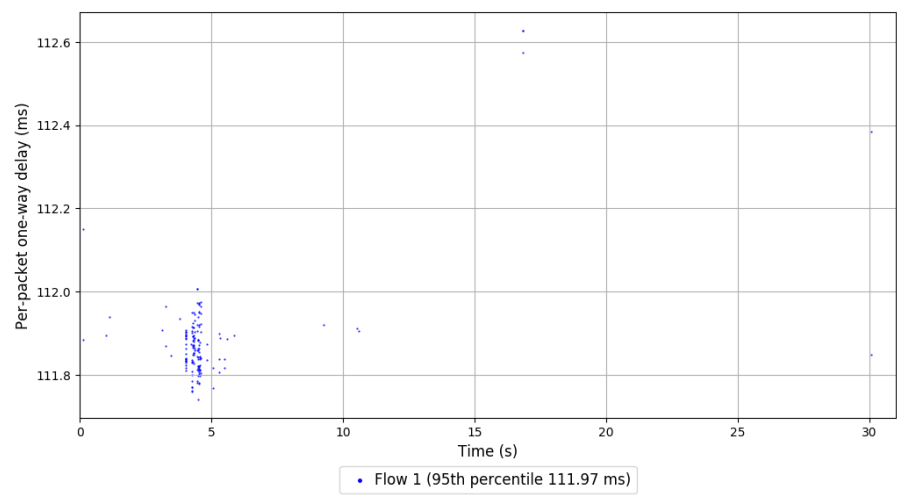
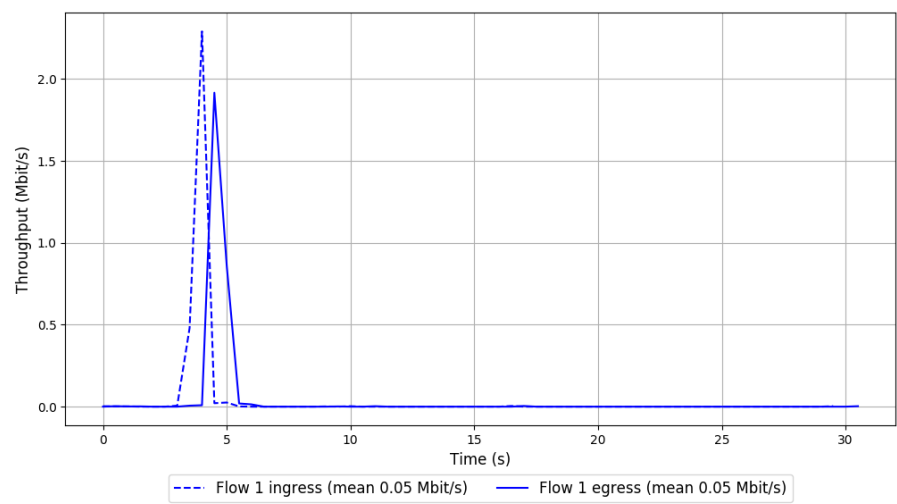
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 111.972 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-01-17 06:18:01

End at: 2019-01-17 06:18:31

Local clock offset: -1.089 ms

Remote clock offset: 0.268 ms

Below is generated by plot.py at 2019-01-17 09:58:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.262 ms

Loss rate: 0.00%

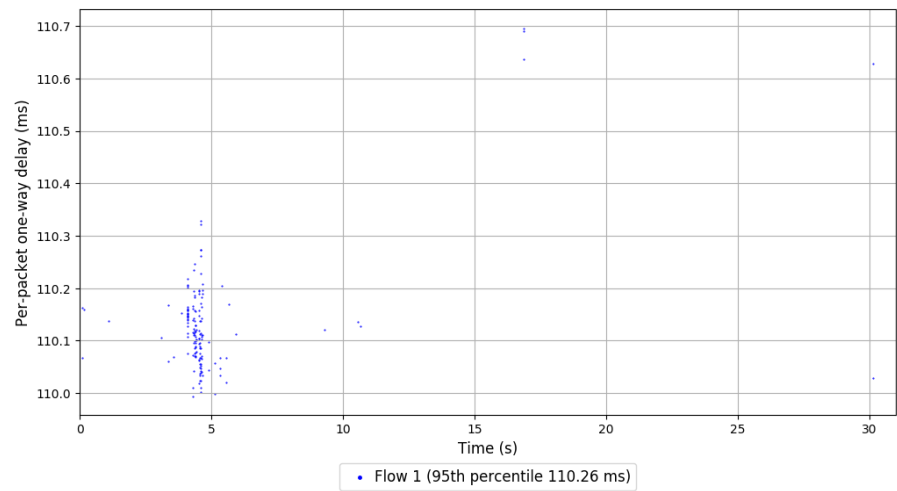
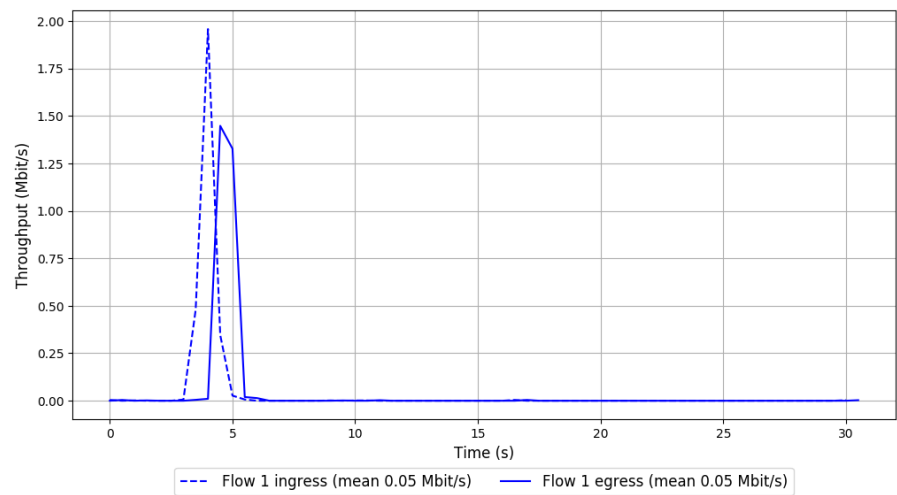
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.262 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-17 06:49:23

End at: 2019-01-17 06:49:53

Local clock offset: -0.077 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2019-01-17 09:58:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.425 ms

Loss rate: 0.00%

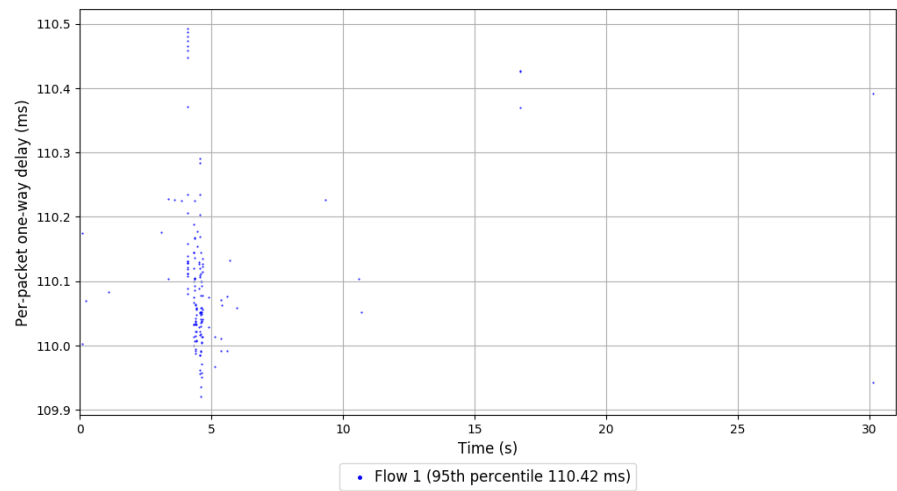
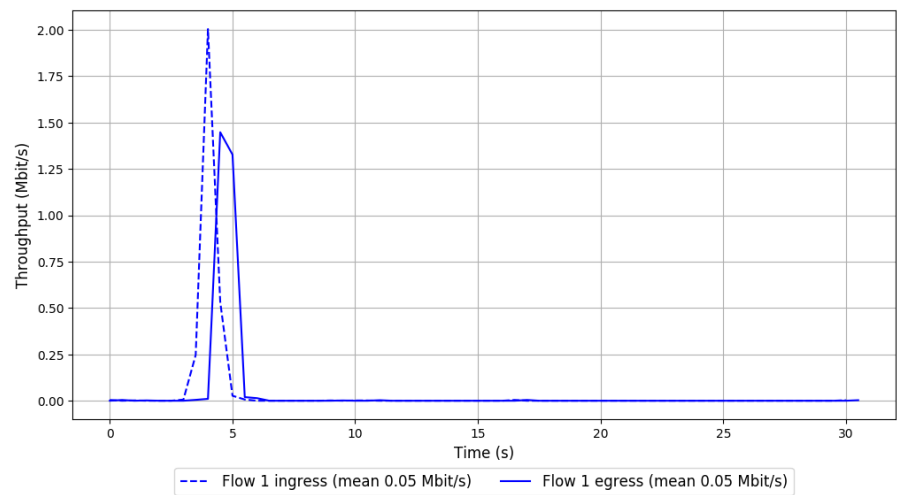
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.425 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-01-17 07:20:48
End at: 2019-01-17 07:21:18
Local clock offset: -0.611 ms
Remote clock offset: -0.465 ms

Below is generated by plot.py at 2019-01-17 09:58:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.380 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

