

Pantheon Report

Generated at 2019-12-12 08:44:33 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

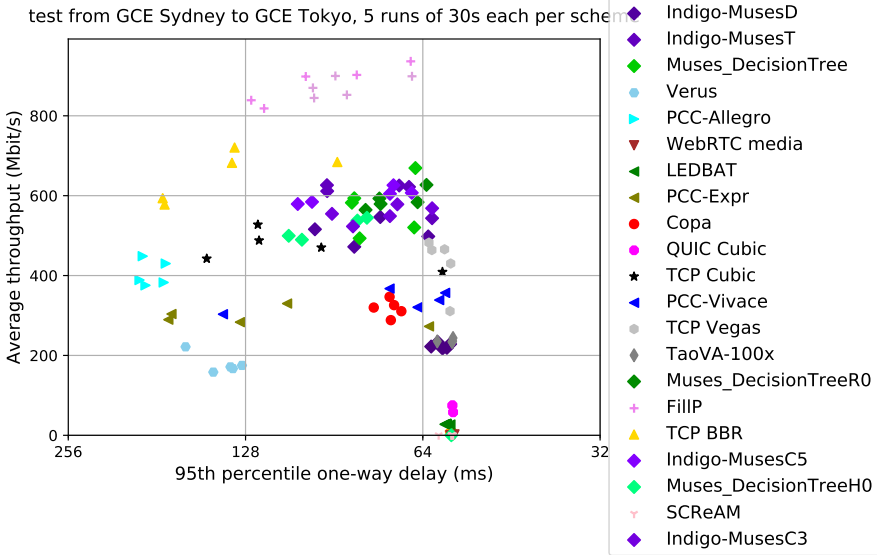
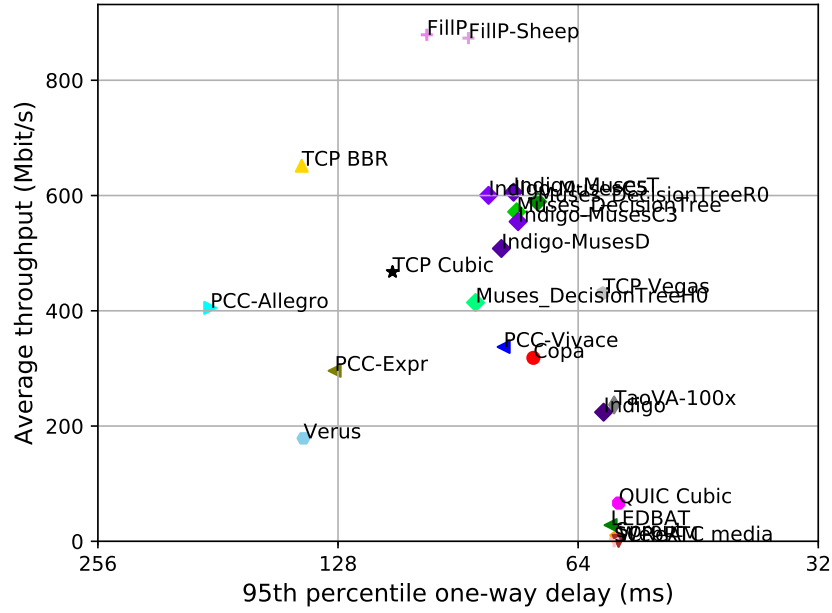
```
Linux 5.0.0-1025-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-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 Sydney to GCE Tokyo, 5 runs of 30s each per scheme
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	651.74	142.13	1.86
Copa	5	318.33	72.83	0.00
TCP Cubic	5	467.34	109.37	0.04
FillP	5	878.89	99.07	0.64
FillP-Sheep	5	873.12	87.84	0.10
Indigo	5	224.02	59.46	0.00
Indigo-MusesC3	5	554.66	76.12	0.01
Indigo-MusesC5	5	600.31	82.89	0.07
Indigo-MusesD	4	508.06	79.88	0.00
Indigo-MusesT	5	605.73	77.12	0.03
LEDBAT	5	28.05	58.28	0.00
Muses_DecisionTree	5	571.73	76.43	0.01
Muses_DecisionTreeH0	5	414.35	86.07	0.07
Muses_DecisionTreeR0	5	589.45	71.96	0.00
PCC-Allegro	5	405.08	185.08	5.08
PCC-Expr	5	295.84	129.26	1.59
QUIC Cubic	4	66.32	56.93	0.00
SCReAM	5	0.22	57.69	0.03
Sprout	5	7.58	57.38	0.00
TaoVA-100x	5	236.59	57.69	0.00
TCP Vegas	5	430.58	59.60	0.01
Verus	5	178.62	141.42	0.18
PCC-Vivace	5	337.26	79.36	0.02
WebRTC media	4	0.59	56.95	0.01

Run 1: Statistics of TCP BBR

Start at: 2019-12-12 03:38:34

End at: 2019-12-12 03:39:04

Local clock offset: 0.171 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2019-12-12 06:31:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 577.83 Mbit/s

95th percentile per-packet one-way delay: 175.657 ms

Loss rate: 3.07%

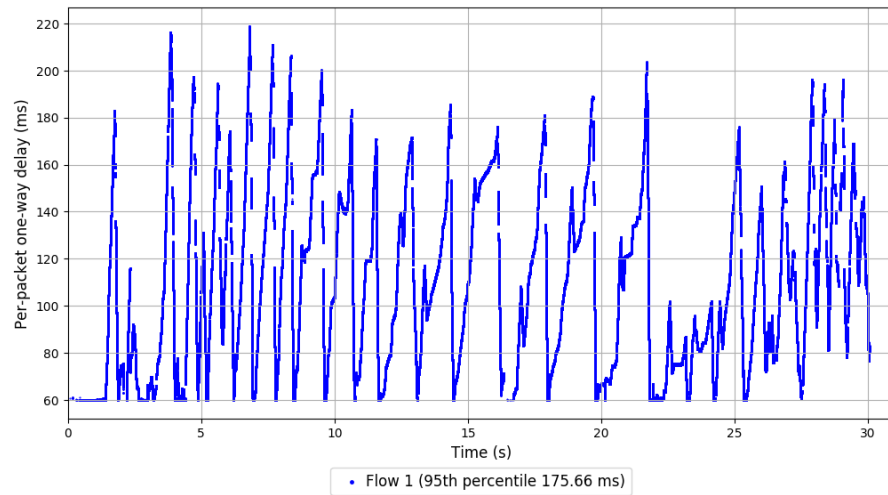
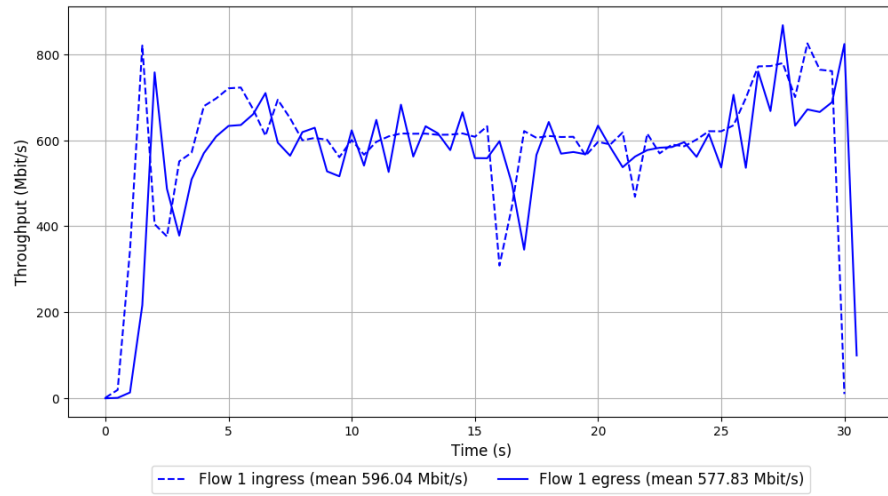
-- Flow 1:

Average throughput: 577.83 Mbit/s

95th percentile per-packet one-way delay: 175.657 ms

Loss rate: 3.07%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-12-12 04:13:52

End at: 2019-12-12 04:14:22

Local clock offset: 0.342 ms

Remote clock offset: -0.089 ms

Below is generated by plot.py at 2019-12-12 06:33:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 682.25 Mbit/s

95th percentile per-packet one-way delay: 134.981 ms

Loss rate: 1.44%

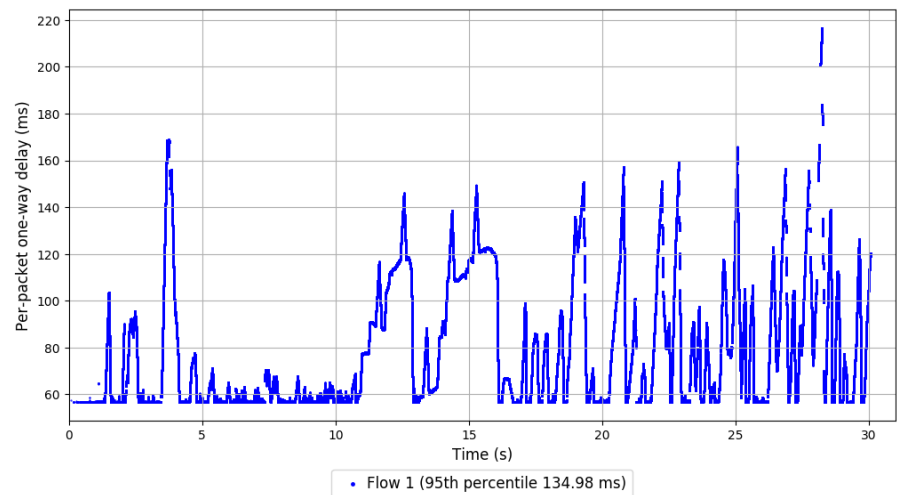
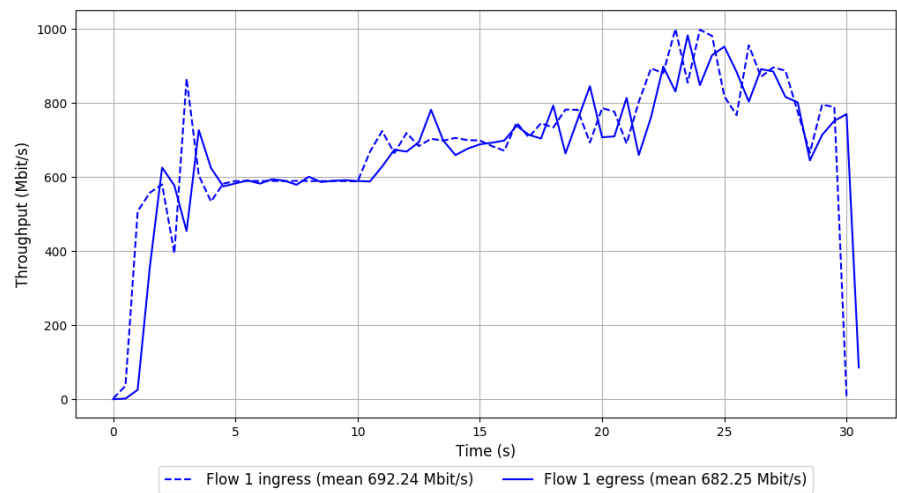
-- Flow 1:

Average throughput: 682.25 Mbit/s

95th percentile per-packet one-way delay: 134.981 ms

Loss rate: 1.44%

Run 2: Report of TCP BBR — Data Link

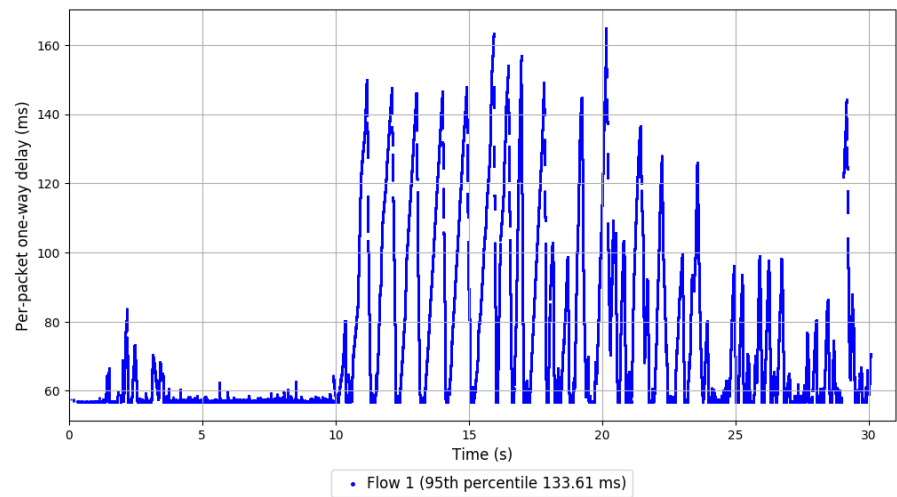
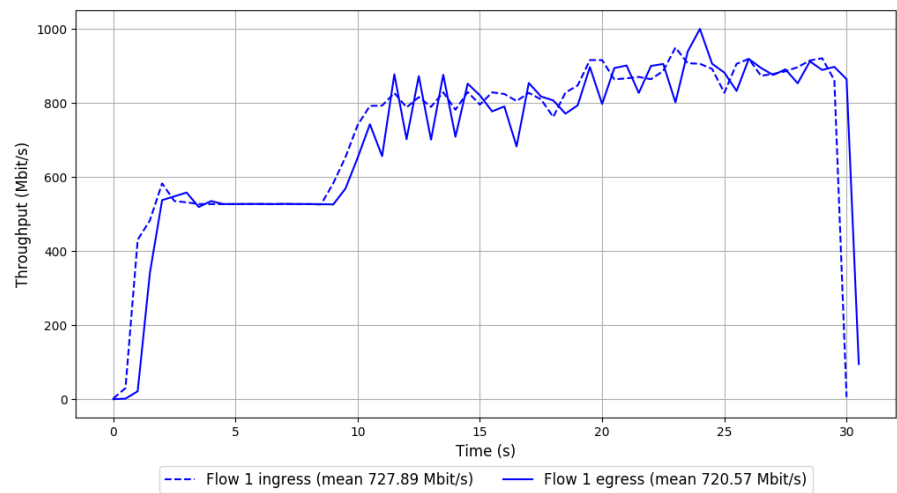


Run 3: Statistics of TCP BBR

Start at: 2019-12-12 04:49:15
End at: 2019-12-12 04:49:45
Local clock offset: 0.651 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2019-12-12 06:34:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 720.57 Mbit/s
95th percentile per-packet one-way delay: 133.609 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 720.57 Mbit/s
95th percentile per-packet one-way delay: 133.609 ms
Loss rate: 1.01%

Run 3: Report of TCP BBR — Data Link

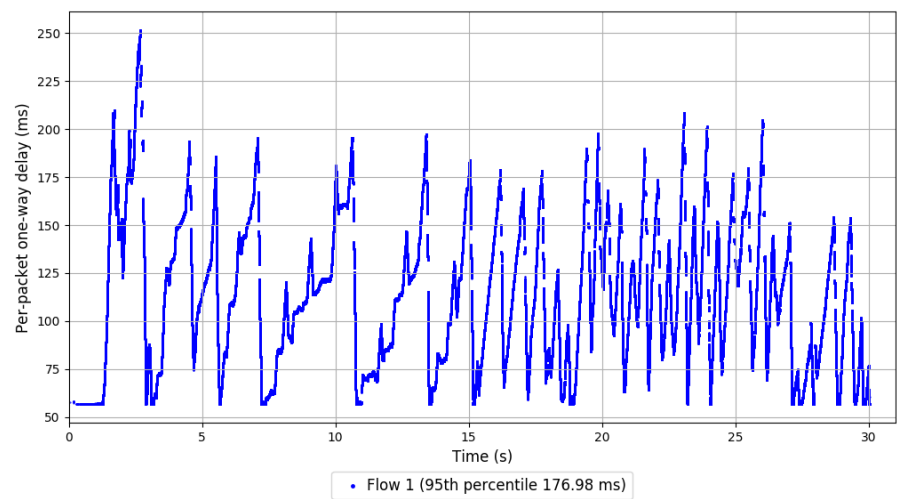
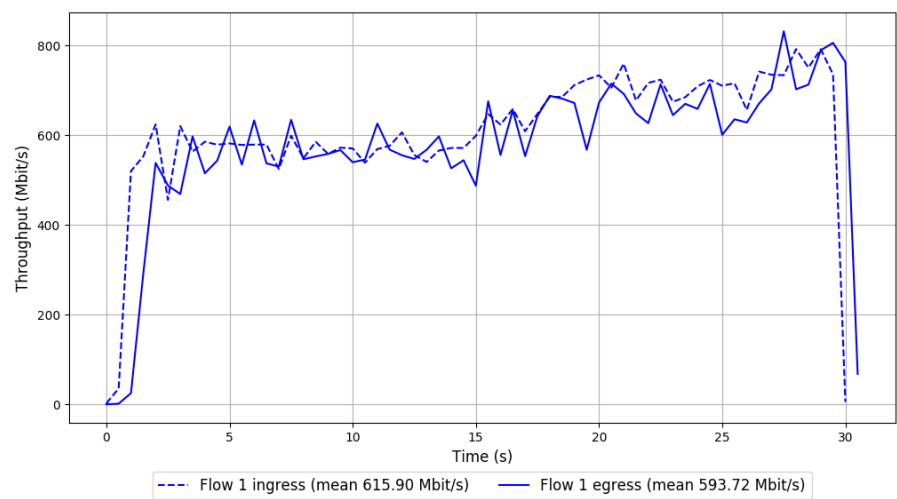


Run 4: Statistics of TCP BBR

Start at: 2019-12-12 05:24:25
End at: 2019-12-12 05:24:56
Local clock offset: -0.145 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-12-12 06:34:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 593.72 Mbit/s
95th percentile per-packet one-way delay: 176.983 ms
Loss rate: 3.60%
-- Flow 1:
Average throughput: 593.72 Mbit/s
95th percentile per-packet one-way delay: 176.983 ms
Loss rate: 3.60%

Run 4: Report of TCP BBR — Data Link

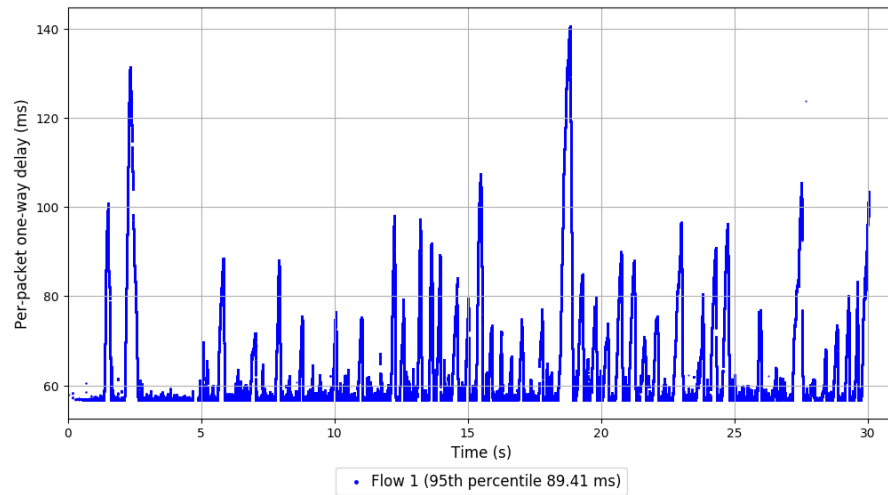
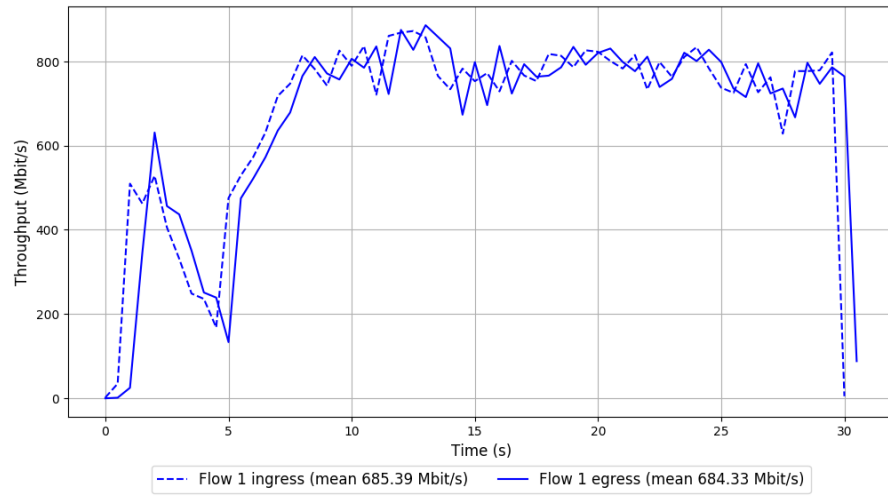


Run 5: Statistics of TCP BBR

Start at: 2019-12-12 05:59:48
End at: 2019-12-12 06:00:18
Local clock offset: -0.138 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2019-12-12 06:34:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 684.33 Mbit/s
95th percentile per-packet one-way delay: 89.406 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 684.33 Mbit/s
95th percentile per-packet one-way delay: 89.406 ms
Loss rate: 0.16%

Run 5: Report of TCP BBR — Data Link

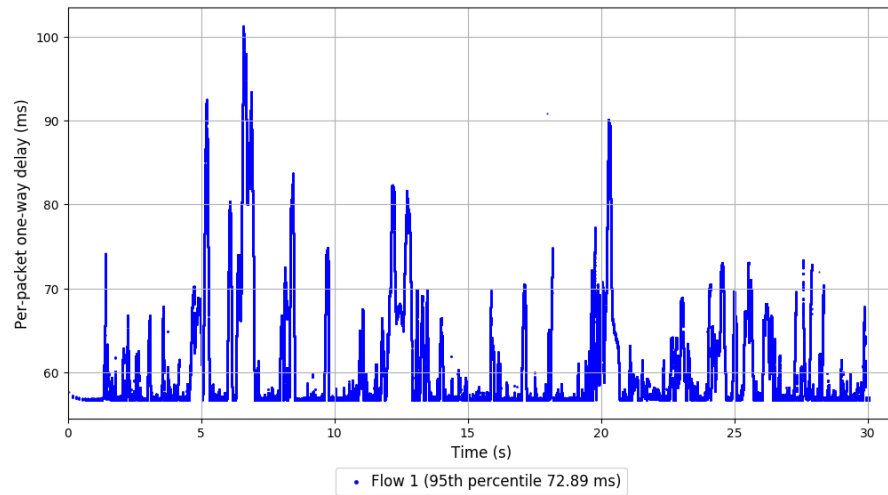
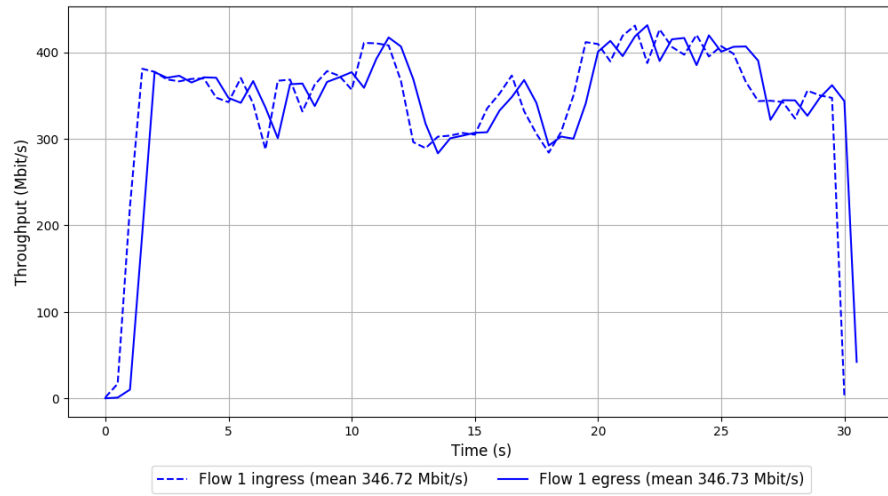


Run 1: Statistics of Copa

Start at: 2019-12-12 03:21:43
End at: 2019-12-12 03:22:13
Local clock offset: 0.098 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2019-12-12 06:34:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 346.73 Mbit/s
95th percentile per-packet one-way delay: 72.885 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 346.73 Mbit/s
95th percentile per-packet one-way delay: 72.885 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

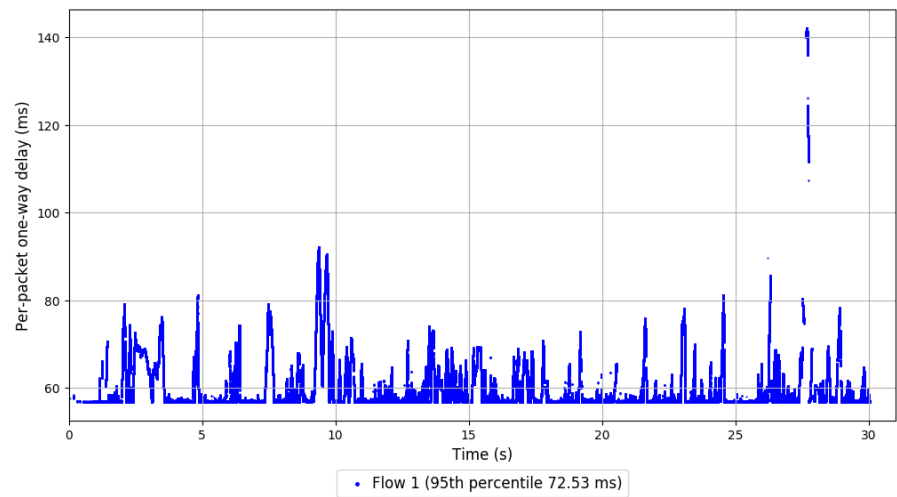
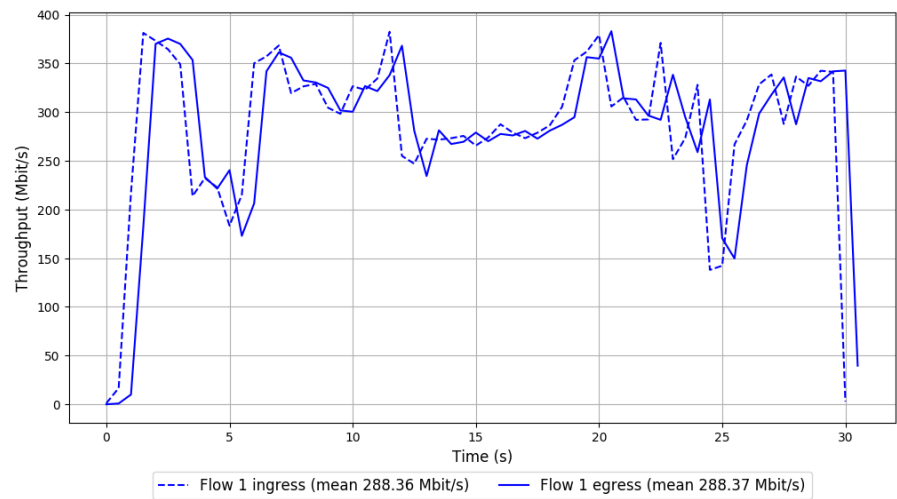


Run 2: Statistics of Copa

Start at: 2019-12-12 03:57:02
End at: 2019-12-12 03:57:32
Local clock offset: 0.229 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2019-12-12 06:34:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 288.37 Mbit/s
95th percentile per-packet one-way delay: 72.527 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 288.37 Mbit/s
95th percentile per-packet one-way delay: 72.527 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-12-12 04:32:30

End at: 2019-12-12 04:33:00

Local clock offset: 0.431 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2019-12-12 06:34:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.73 Mbit/s

95th percentile per-packet one-way delay: 69.605 ms

Loss rate: 0.00%

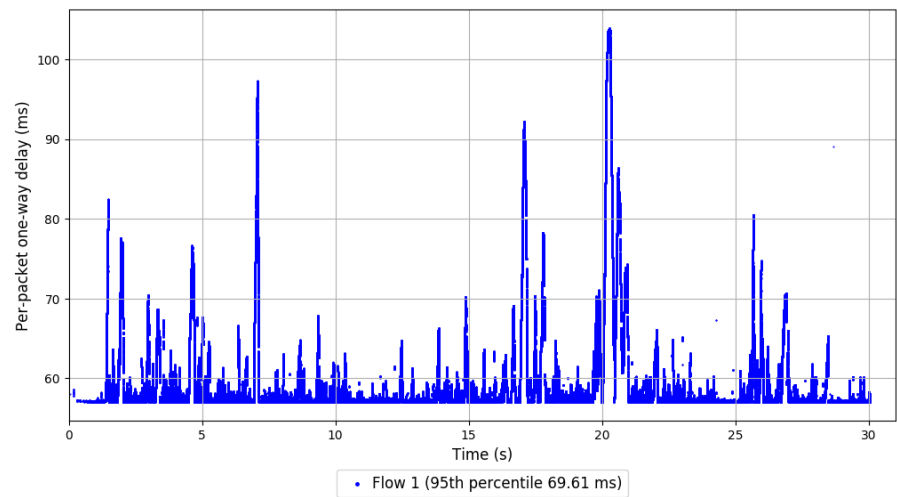
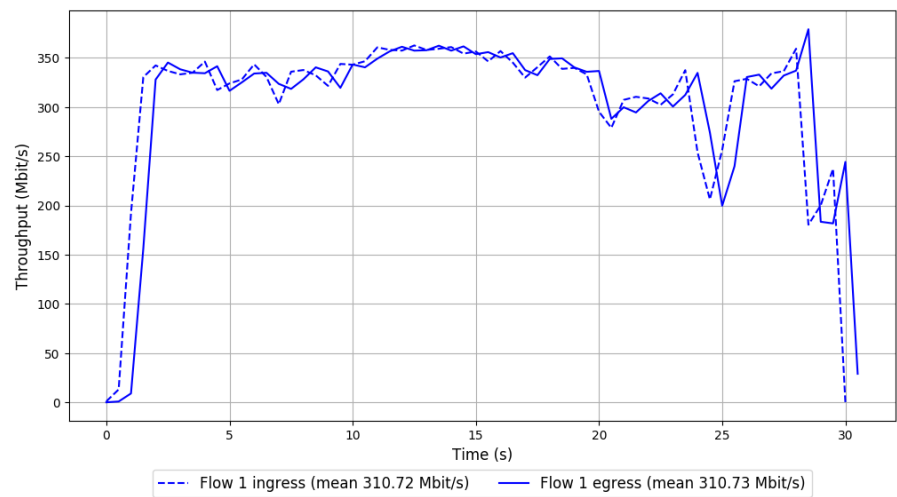
-- Flow 1:

Average throughput: 310.73 Mbit/s

95th percentile per-packet one-way delay: 69.605 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-12-12 05:07:18

End at: 2019-12-12 05:07:48

Local clock offset: 0.087 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2019-12-12 06:44:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.92 Mbit/s

95th percentile per-packet one-way delay: 71.607 ms

Loss rate: 0.00%

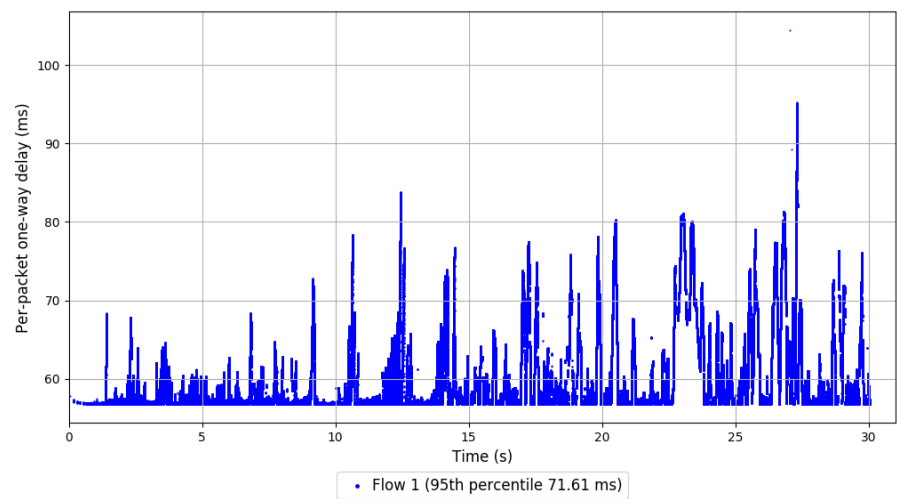
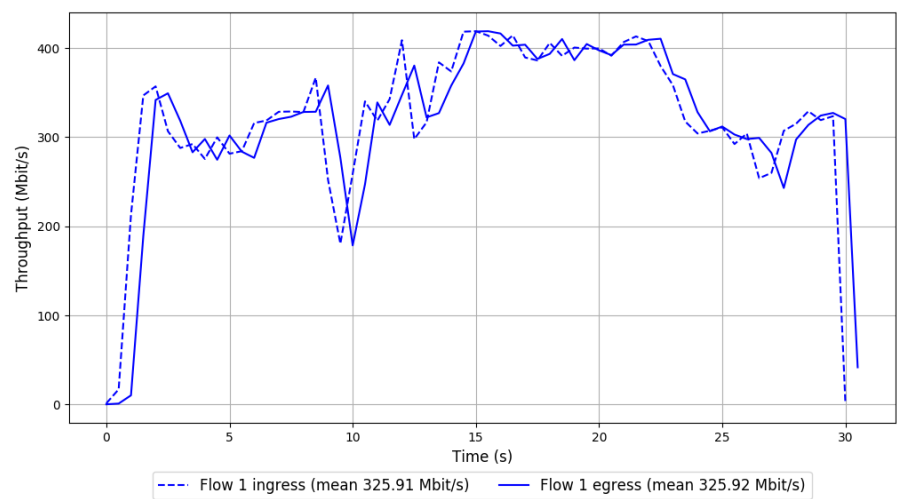
-- Flow 1:

Average throughput: 325.92 Mbit/s

95th percentile per-packet one-way delay: 71.607 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-12-12 05:42:53

End at: 2019-12-12 05:43:23

Local clock offset: -0.123 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2019-12-12 06:44:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.89 Mbit/s

95th percentile per-packet one-way delay: 77.538 ms

Loss rate: 0.00%

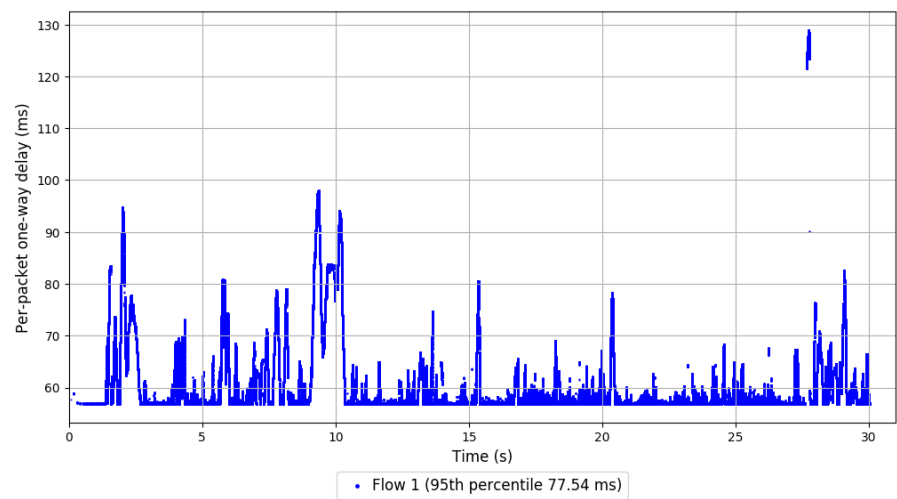
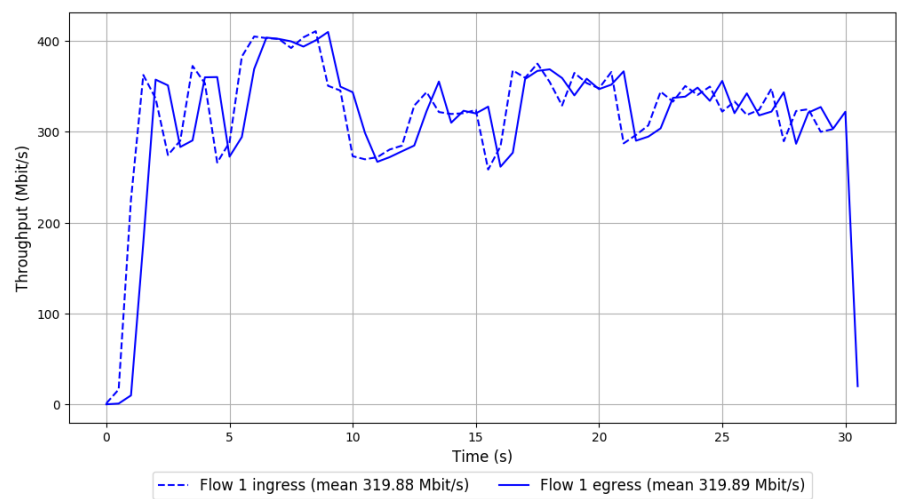
-- Flow 1:

Average throughput: 319.89 Mbit/s

95th percentile per-packet one-way delay: 77.538 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

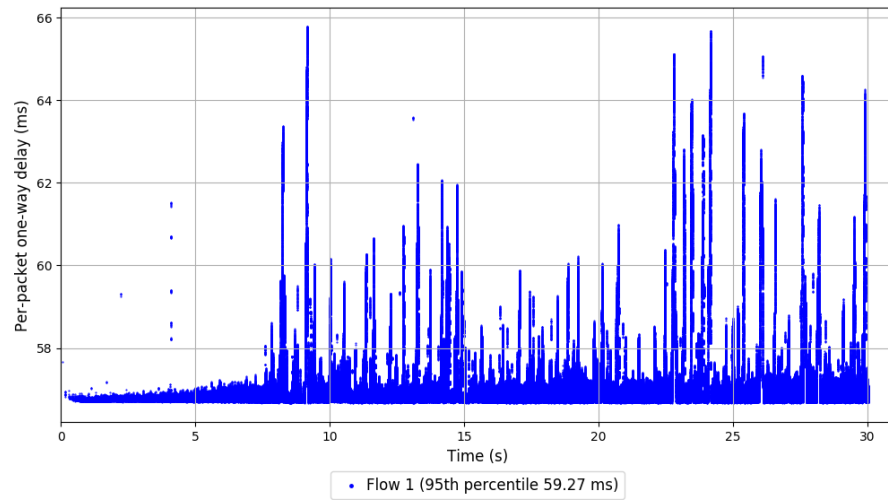
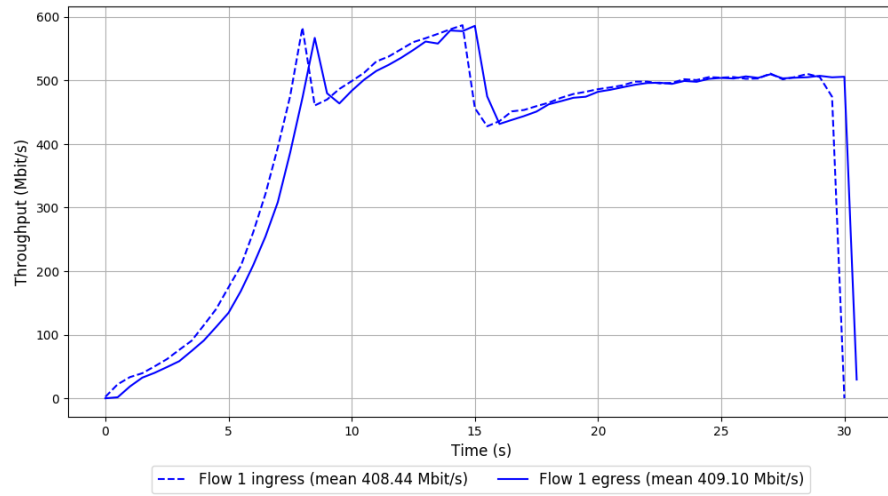


Run 1: Statistics of TCP Cubic

Start at: 2019-12-12 03:34:07
End at: 2019-12-12 03:34:37
Local clock offset: 0.137 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2019-12-12 06:44:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 409.10 Mbit/s
95th percentile per-packet one-way delay: 59.271 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 409.10 Mbit/s
95th percentile per-packet one-way delay: 59.271 ms
Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-12-12 04:09:21

End at: 2019-12-12 04:09:51

Local clock offset: 0.331 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2019-12-12 06:44:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 470.08 Mbit/s

95th percentile per-packet one-way delay: 95.182 ms

Loss rate: 0.04%

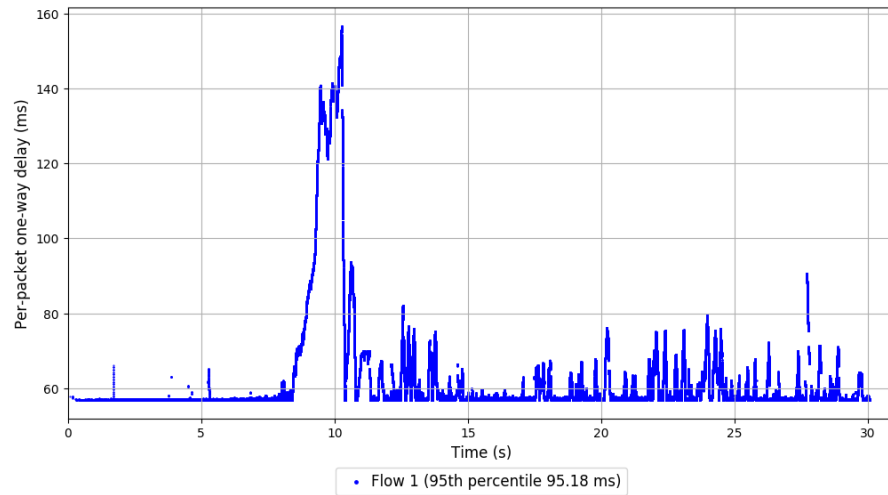
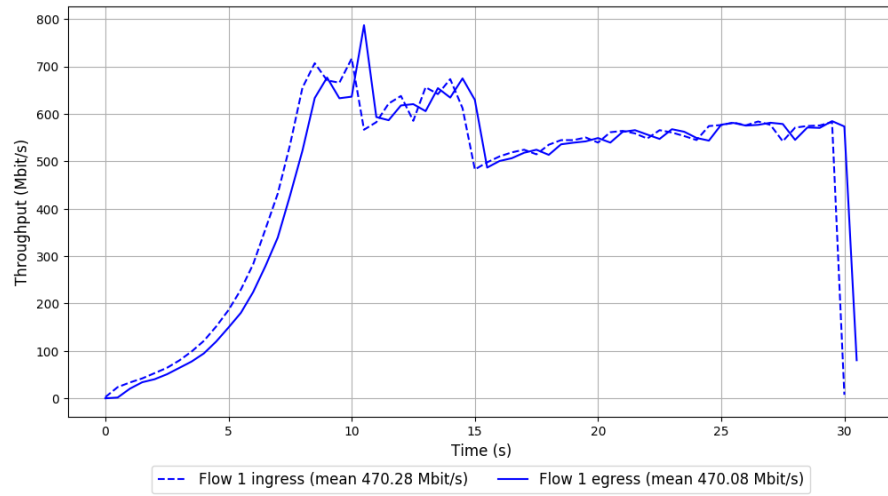
-- Flow 1:

Average throughput: 470.08 Mbit/s

95th percentile per-packet one-way delay: 95.182 ms

Loss rate: 0.04%

Run 2: Report of TCP Cubic — Data Link

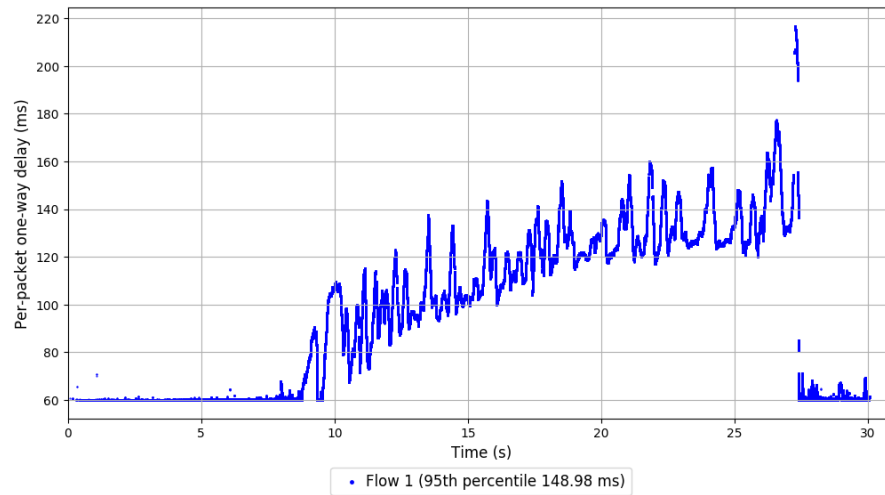
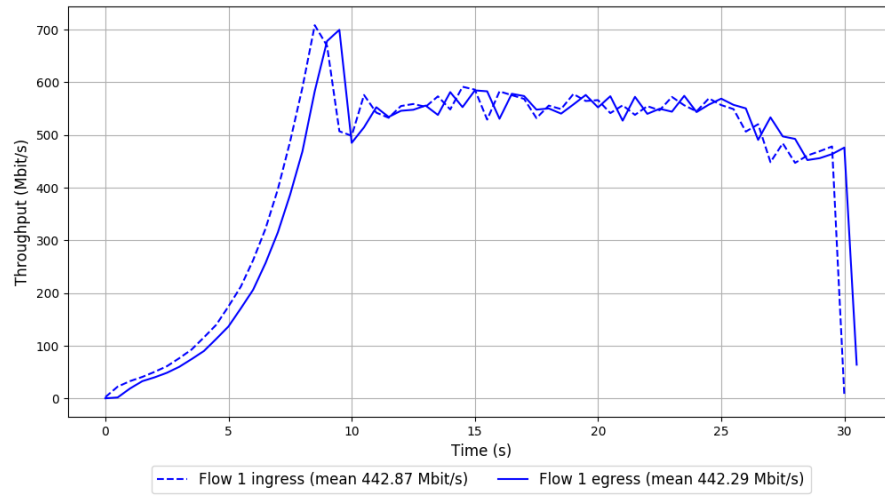


Run 3: Statistics of TCP Cubic

Start at: 2019-12-12 04:44:44
End at: 2019-12-12 04:45:14
Local clock offset: 0.587 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2019-12-12 06:44:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 442.29 Mbit/s
95th percentile per-packet one-way delay: 148.979 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 442.29 Mbit/s
95th percentile per-packet one-way delay: 148.979 ms
Loss rate: 0.14%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-12-12 05:19:47

End at: 2019-12-12 05:20:17

Local clock offset: -0.137 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2019-12-12 06:45:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.45 Mbit/s

95th percentile per-packet one-way delay: 121.986 ms

Loss rate: 0.00%

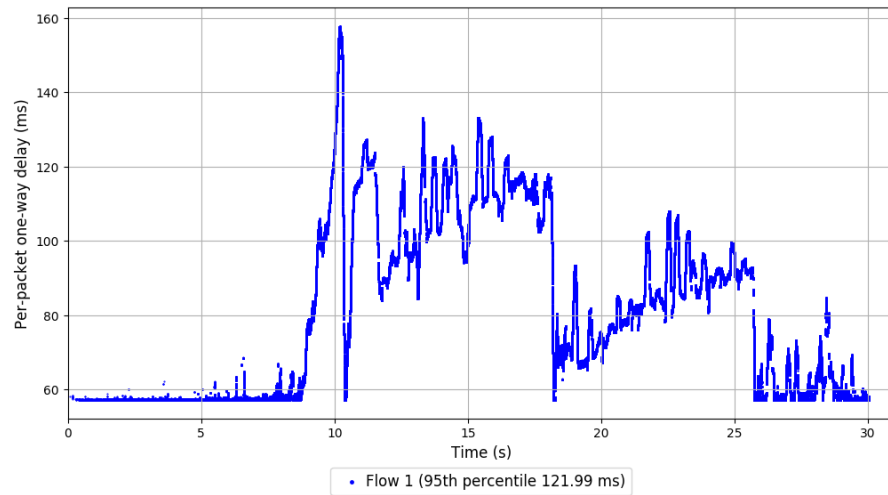
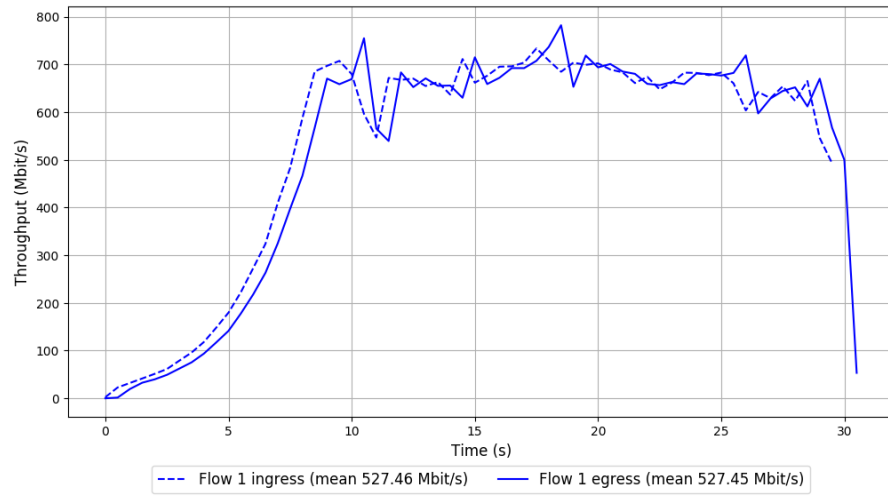
-- Flow 1:

Average throughput: 527.45 Mbit/s

95th percentile per-packet one-way delay: 121.986 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link

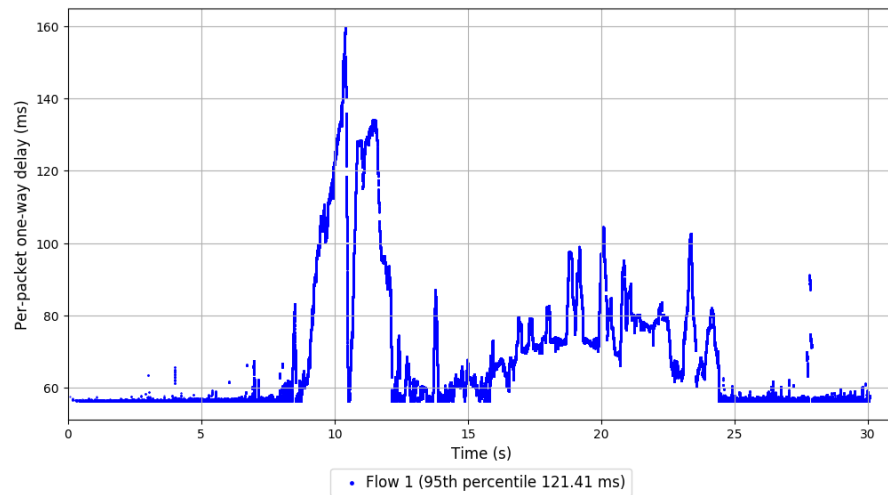
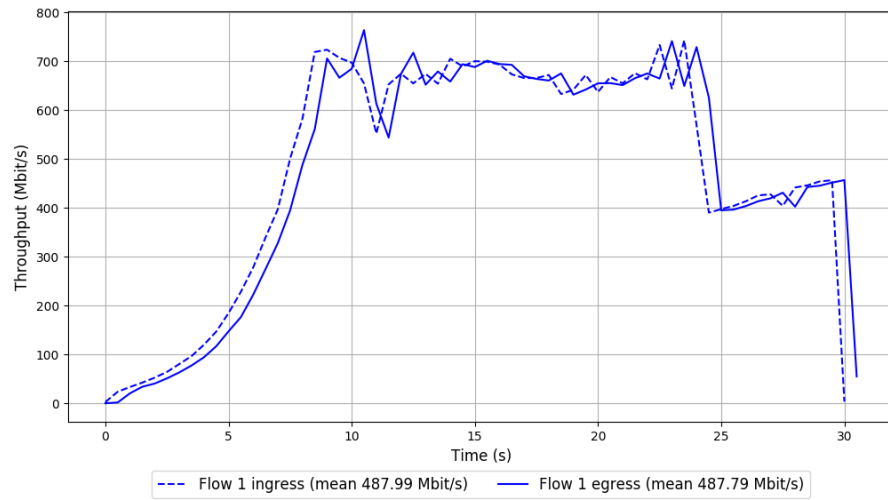


Run 5: Statistics of TCP Cubic

Start at: 2019-12-12 05:55:19
End at: 2019-12-12 05:55:49
Local clock offset: 0.172 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2019-12-12 06:45:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 487.79 Mbit/s
95th percentile per-packet one-way delay: 121.409 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 487.79 Mbit/s
95th percentile per-packet one-way delay: 121.409 ms
Loss rate: 0.04%

Run 5: Report of TCP Cubic — Data Link

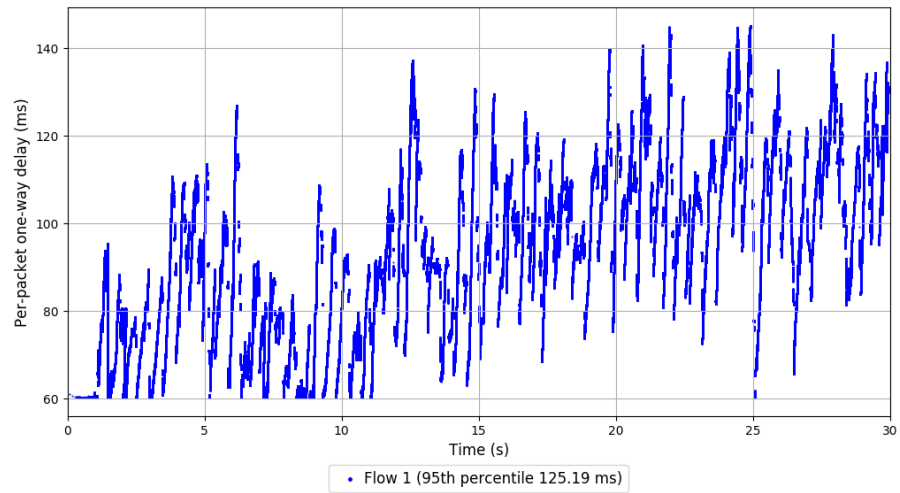
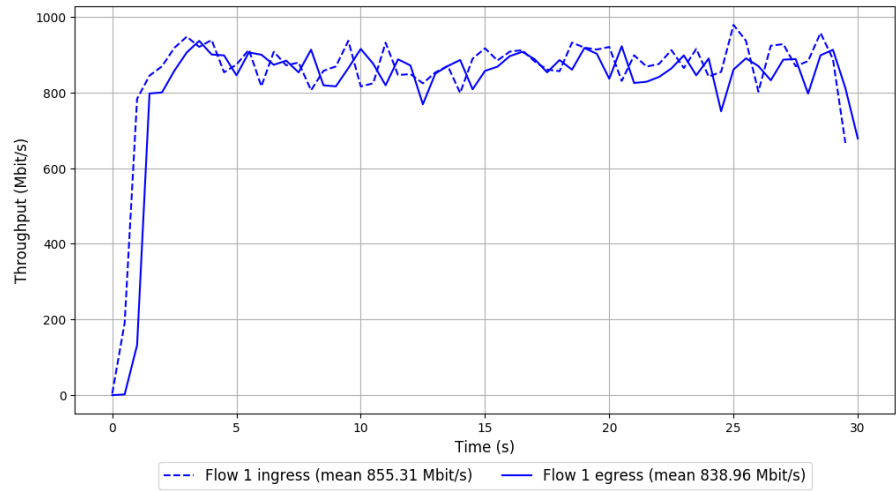


Run 1: Statistics of FillP

Start at: 2019-12-12 03:26:27
End at: 2019-12-12 03:26:57
Local clock offset: 0.133 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2019-12-12 06:54:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 838.96 Mbit/s
95th percentile per-packet one-way delay: 125.190 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 838.96 Mbit/s
95th percentile per-packet one-way delay: 125.190 ms
Loss rate: 1.92%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-12-12 04:01:43

End at: 2019-12-12 04:02:13

Local clock offset: 0.292 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2019-12-12 07:01:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 818.43 Mbit/s

95th percentile per-packet one-way delay: 119.045 ms

Loss rate: 1.20%

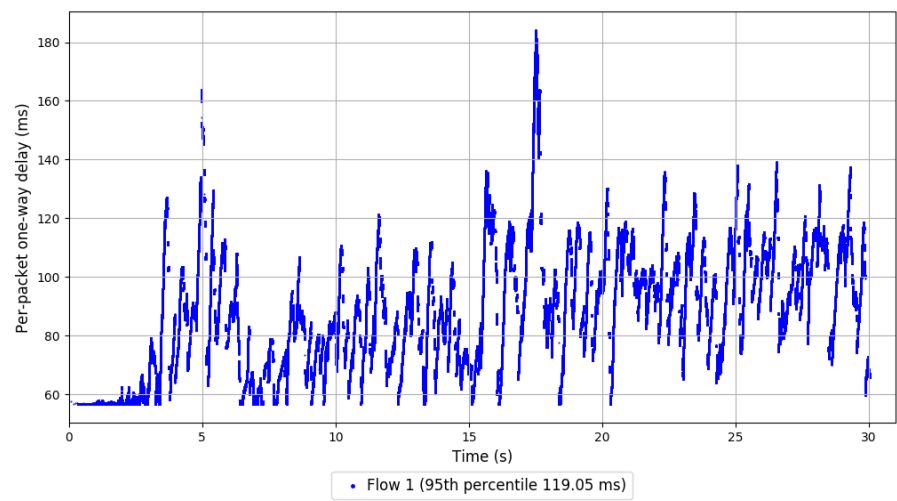
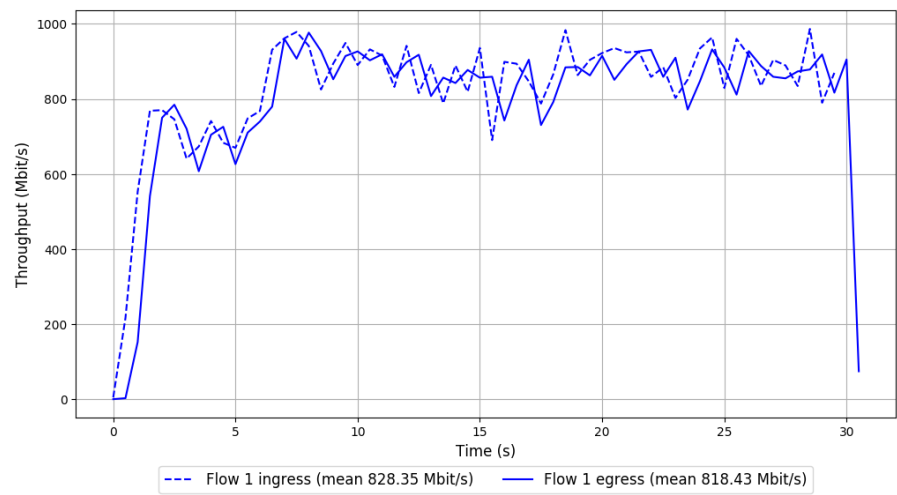
-- Flow 1:

Average throughput: 818.43 Mbit/s

95th percentile per-packet one-way delay: 119.045 ms

Loss rate: 1.20%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-12-12 04:37:05

End at: 2019-12-12 04:37:35

Local clock offset: 0.45 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2019-12-12 07:05:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 898.38 Mbit/s

95th percentile per-packet one-way delay: 101.138 ms

Loss rate: 0.08%

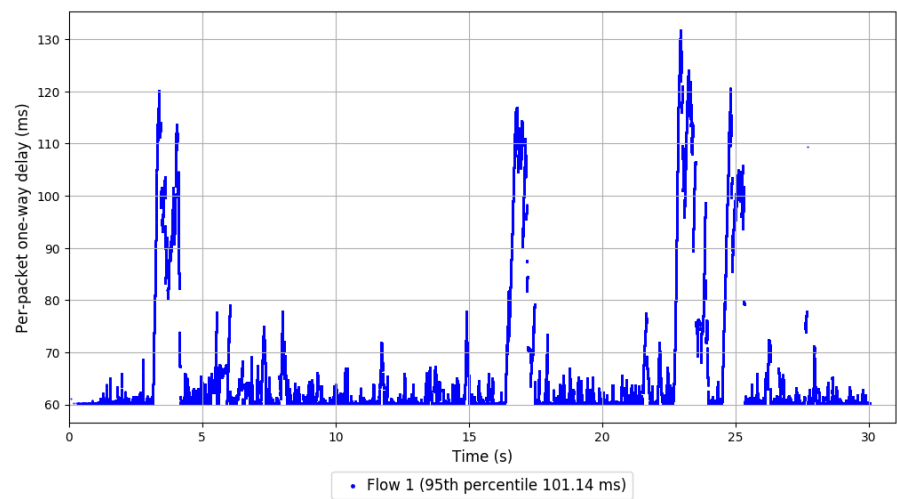
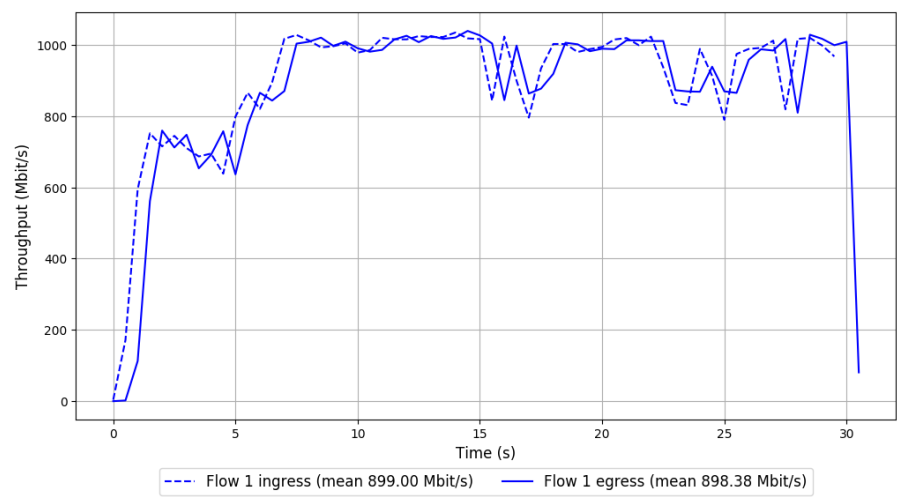
-- Flow 1:

Average throughput: 898.38 Mbit/s

95th percentile per-packet one-way delay: 101.138 ms

Loss rate: 0.08%

Run 3: Report of FillP — Data Link

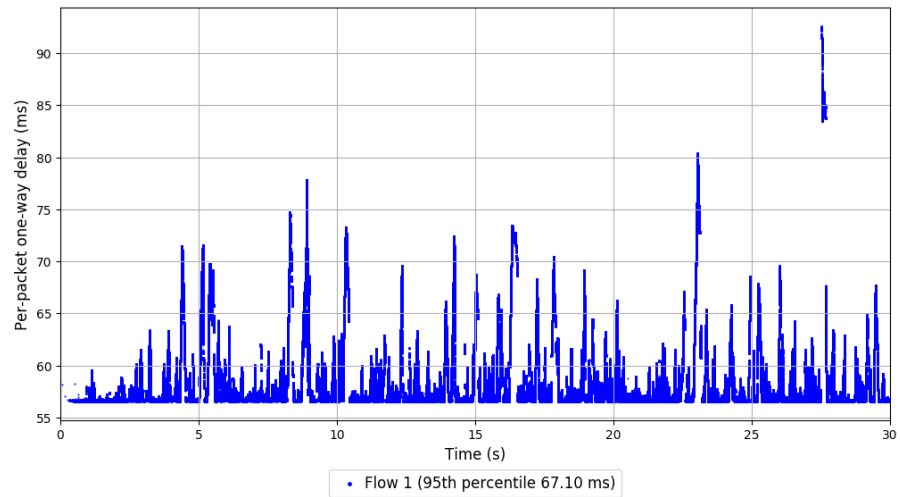
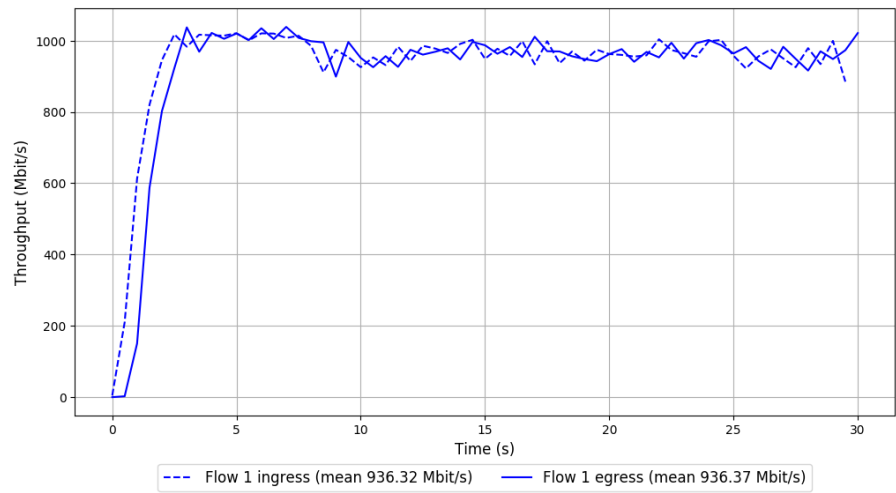


Run 4: Statistics of FillP

Start at: 2019-12-12 05:12:04
End at: 2019-12-12 05:12:34
Local clock offset: -0.038 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2019-12-12 07:06:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 936.37 Mbit/s
95th percentile per-packet one-way delay: 67.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 936.37 Mbit/s
95th percentile per-packet one-way delay: 67.103 ms
Loss rate: 0.00%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-12-12 05:47:37

End at: 2019-12-12 05:48:07

Local clock offset: -0.097 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2019-12-12 07:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 902.32 Mbit/s

95th percentile per-packet one-way delay: 82.863 ms

Loss rate: 0.00%

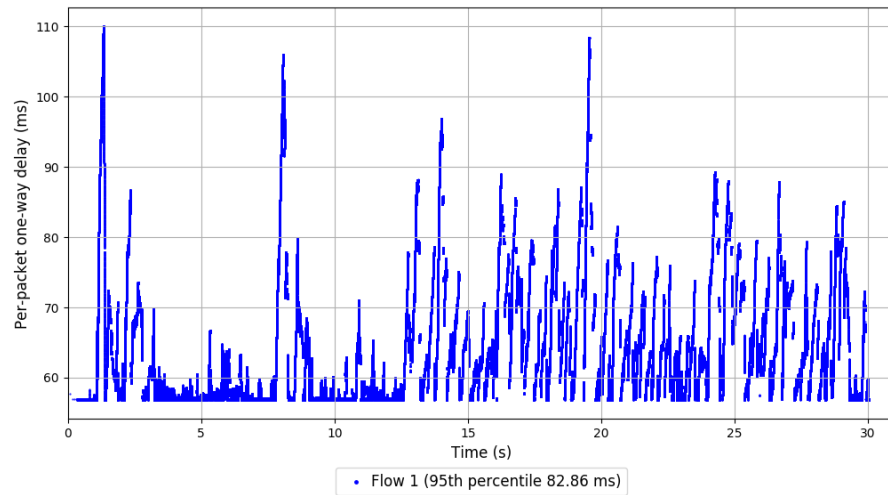
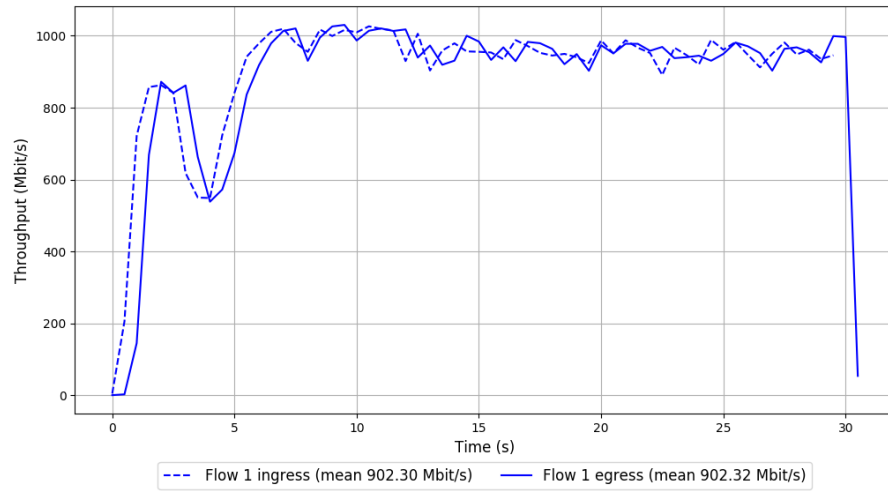
-- Flow 1:

Average throughput: 902.32 Mbit/s

95th percentile per-packet one-way delay: 82.863 ms

Loss rate: 0.00%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-12-12 03:29:48

End at: 2019-12-12 03:30:18

Local clock offset: 0.16 ms

Remote clock offset: -0.059 ms

Below is generated by plot.py at 2019-12-12 07:07:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 899.72 Mbit/s

95th percentile per-packet one-way delay: 90.084 ms

Loss rate: 0.08%

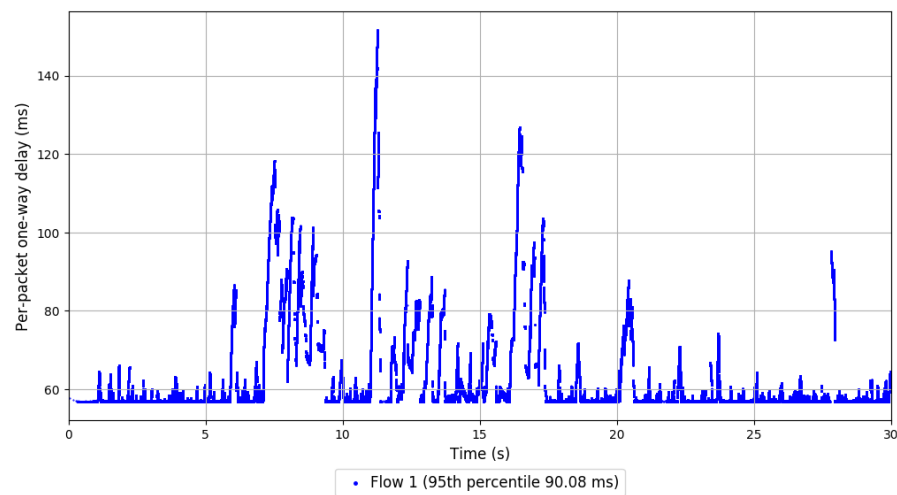
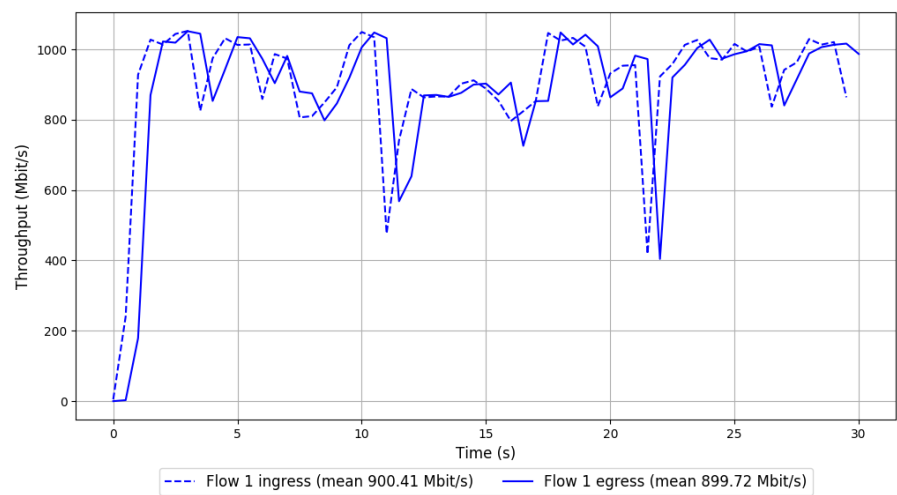
-- Flow 1:

Average throughput: 899.72 Mbit/s

95th percentile per-packet one-way delay: 90.084 ms

Loss rate: 0.08%

Run 1: Report of FillP-Sheep — Data Link

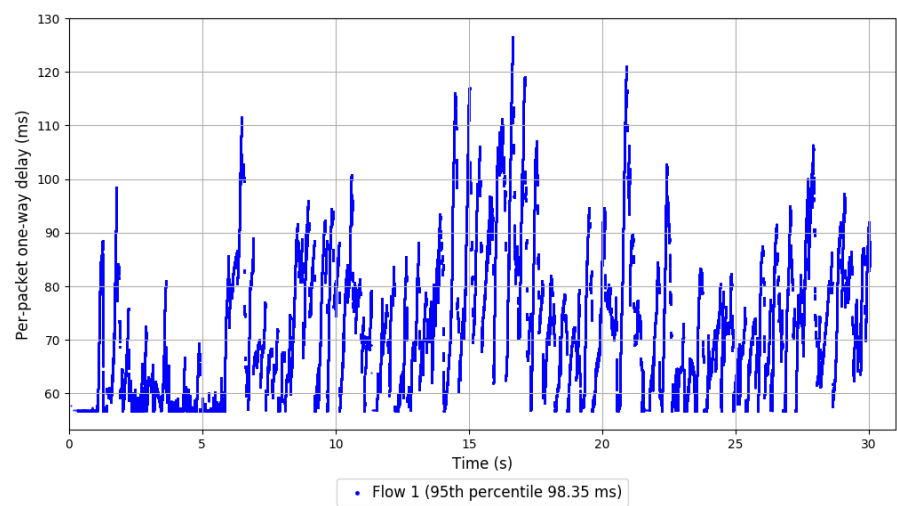
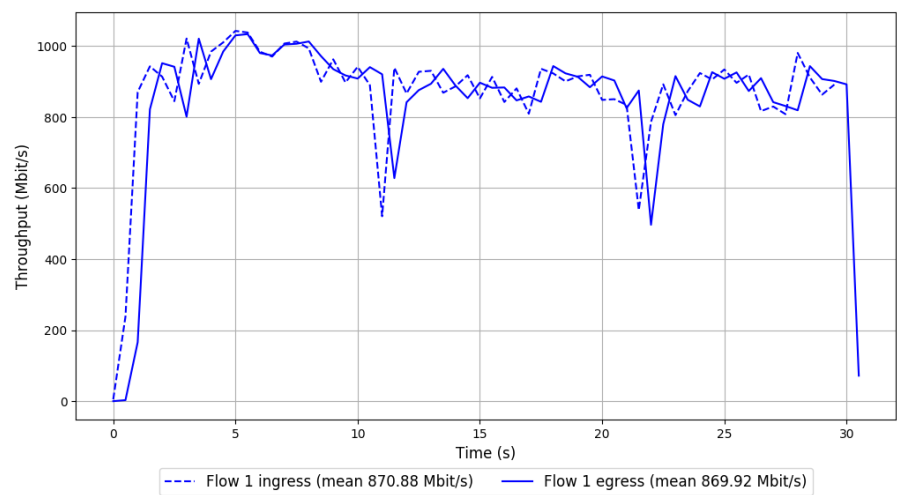


Run 2: Statistics of FillP-Sheep

Start at: 2019-12-12 04:04:59
End at: 2019-12-12 04:05:29
Local clock offset: 0.291 ms
Remote clock offset: -0.185 ms

Below is generated by plot.py at 2019-12-12 07:07:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 869.92 Mbit/s
95th percentile per-packet one-way delay: 98.351 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 869.92 Mbit/s
95th percentile per-packet one-way delay: 98.351 ms
Loss rate: 0.11%

Run 2: Report of FillP-Sheep — Data Link

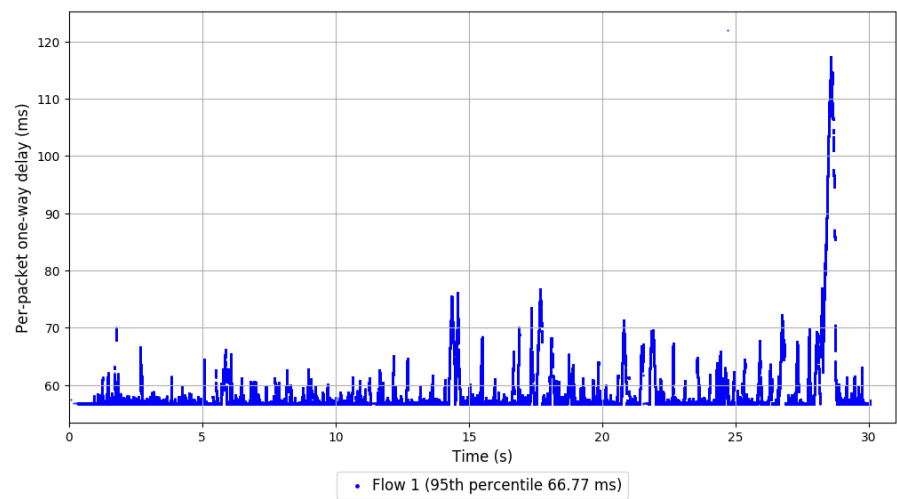
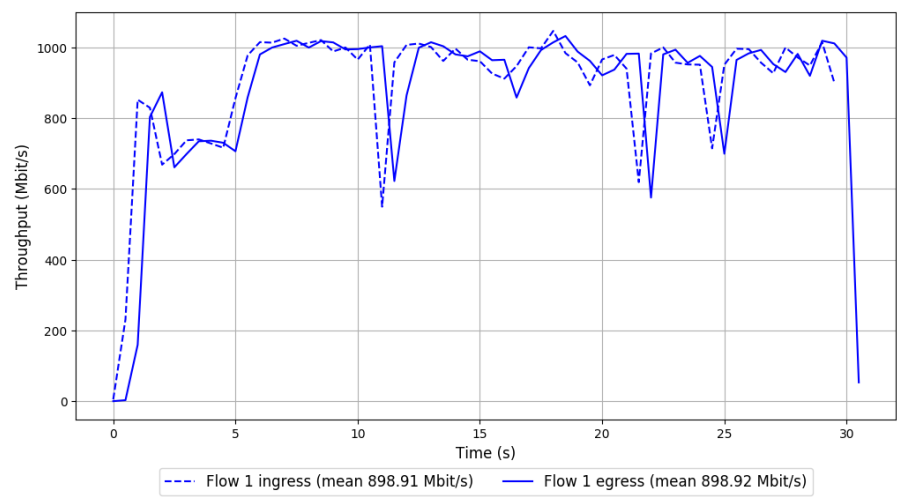


Run 3: Statistics of FillP-Sheep

Start at: 2019-12-12 04:40:20
End at: 2019-12-12 04:40:50
Local clock offset: 0.534 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2019-12-12 07:07:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 898.92 Mbit/s
95th percentile per-packet one-way delay: 66.766 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 898.92 Mbit/s
95th percentile per-packet one-way delay: 66.766 ms
Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link

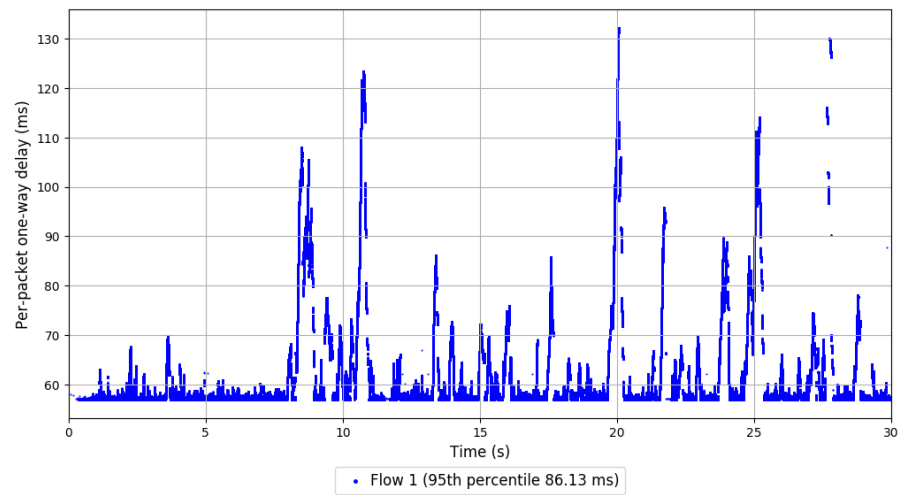
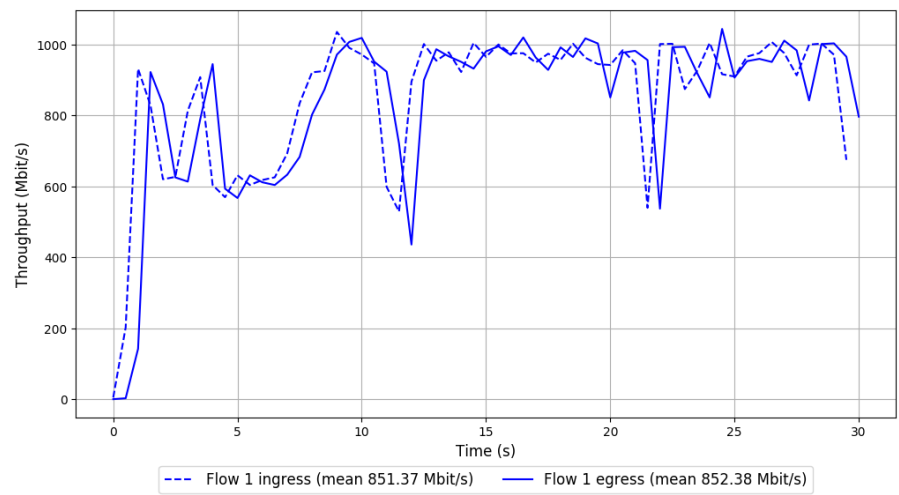


Run 4: Statistics of FillP-Sheep

Start at: 2019-12-12 05:15:23
End at: 2019-12-12 05:15:53
Local clock offset: -0.035 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2019-12-12 07:17:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 852.38 Mbit/s
95th percentile per-packet one-way delay: 86.128 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 852.38 Mbit/s
95th percentile per-packet one-way delay: 86.128 ms
Loss rate: 0.16%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-12-12 05:50:56

End at: 2019-12-12 05:51:26

Local clock offset: -0.074 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2019-12-12 07:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 844.66 Mbit/s

95th percentile per-packet one-way delay: 97.896 ms

Loss rate: 0.15%

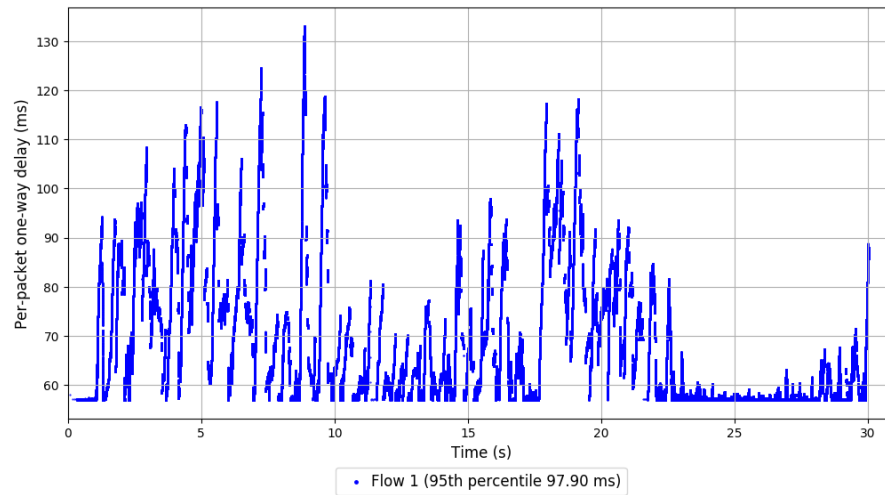
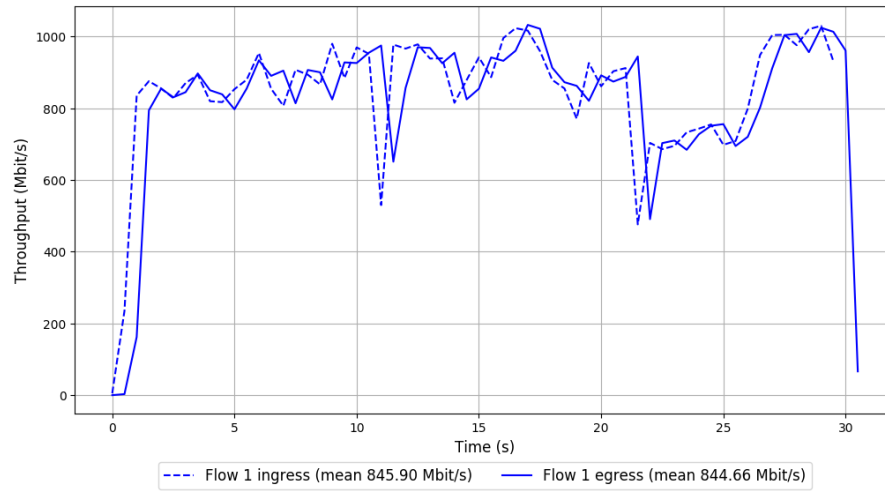
-- Flow 1:

Average throughput: 844.66 Mbit/s

95th percentile per-packet one-way delay: 97.896 ms

Loss rate: 0.15%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-12-12 03:08:33

End at: 2019-12-12 03:09:03

Local clock offset: 0.058 ms

Remote clock offset: -0.009 ms

Below is generated by plot.py at 2019-12-12 07:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.20 Mbit/s

95th percentile per-packet one-way delay: 61.941 ms

Loss rate: 0.00%

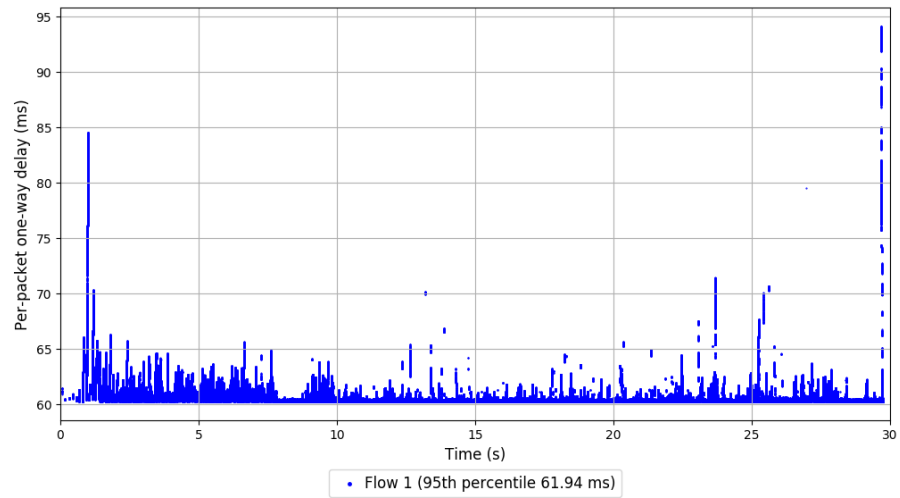
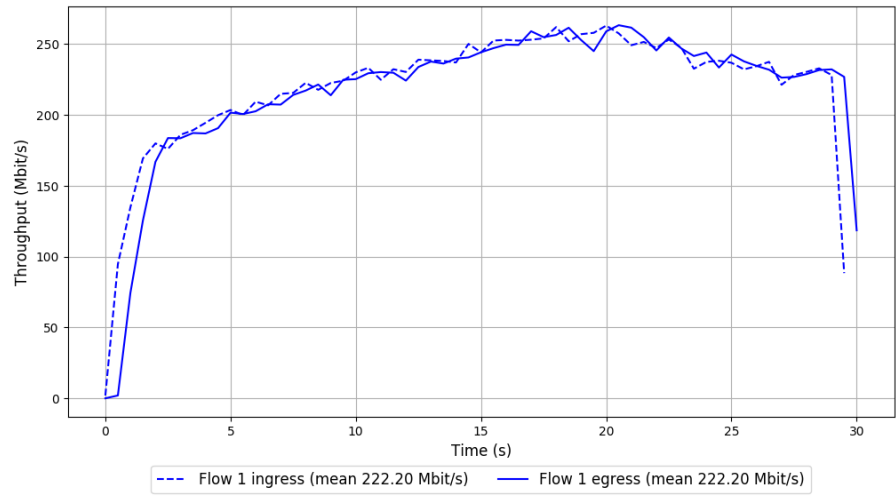
-- Flow 1:

Average throughput: 222.20 Mbit/s

95th percentile per-packet one-way delay: 61.941 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

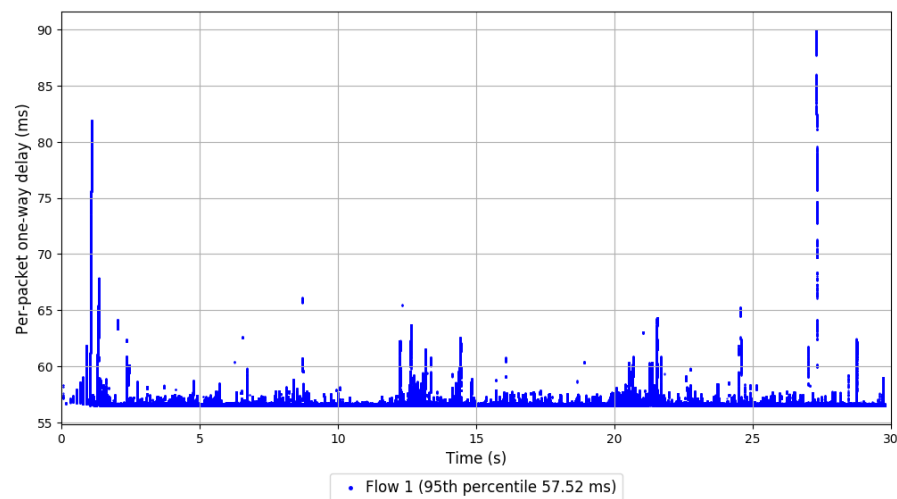
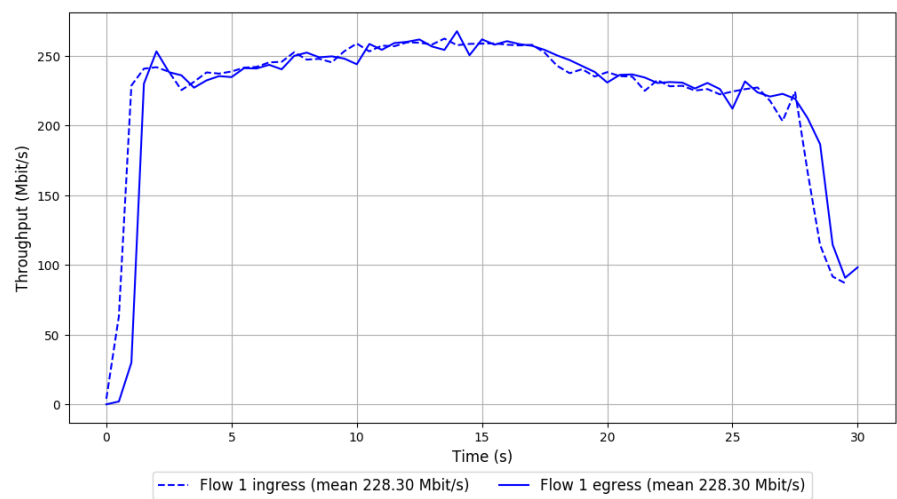


Run 2: Statistics of Indigo

Start at: 2019-12-12 03:43:59
End at: 2019-12-12 03:44:29
Local clock offset: 0.405 ms
Remote clock offset: -0.185 ms

Below is generated by plot.py at 2019-12-12 07:21:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 228.30 Mbit/s
95th percentile per-packet one-way delay: 57.520 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.30 Mbit/s
95th percentile per-packet one-way delay: 57.520 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-12-12 04:19:23

End at: 2019-12-12 04:19:53

Local clock offset: 0.365 ms

Remote clock offset: -0.104 ms

Below is generated by plot.py at 2019-12-12 07:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.21 Mbit/s

95th percentile per-packet one-way delay: 60.351 ms

Loss rate: 0.00%

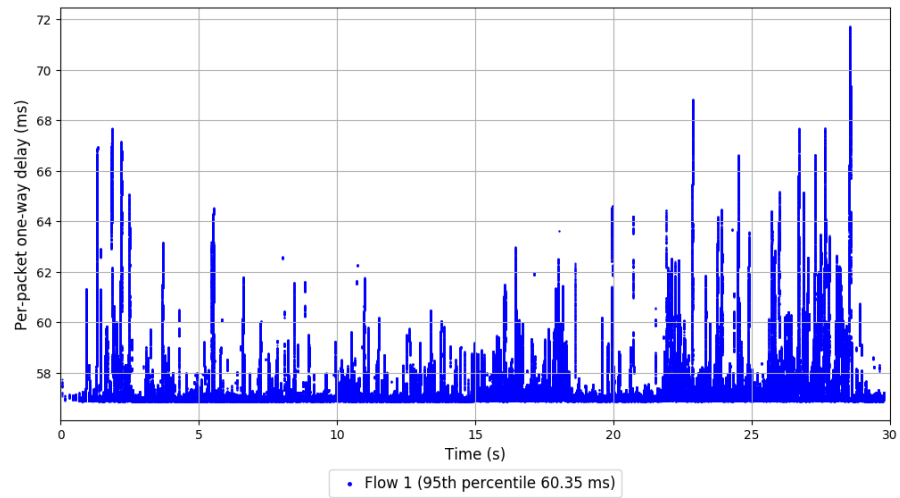
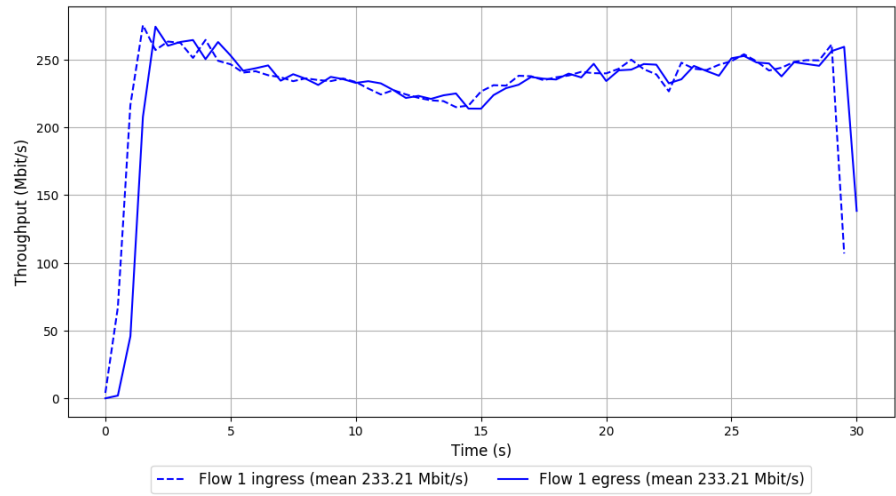
-- Flow 1:

Average throughput: 233.21 Mbit/s

95th percentile per-packet one-way delay: 60.351 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-12-12 04:54:43

End at: 2019-12-12 04:55:13

Local clock offset: 0.647 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2019-12-12 07:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.01 Mbit/s

95th percentile per-packet one-way delay: 58.258 ms

Loss rate: 0.00%

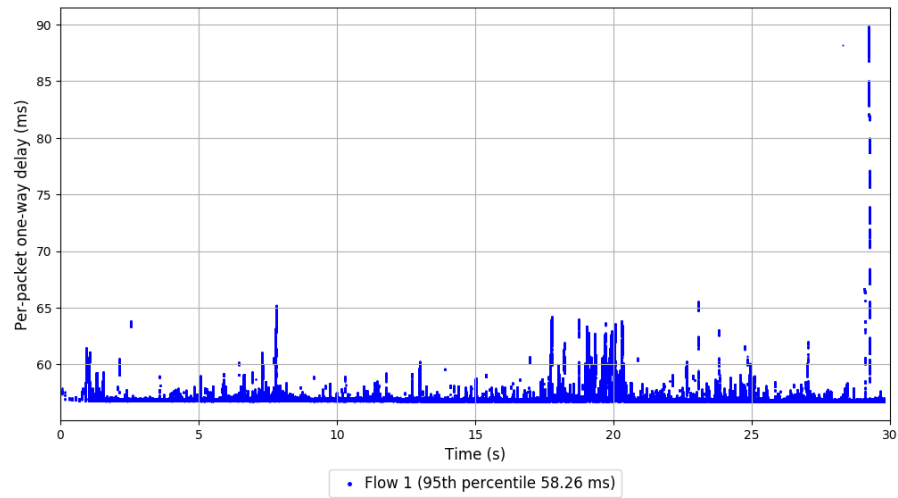
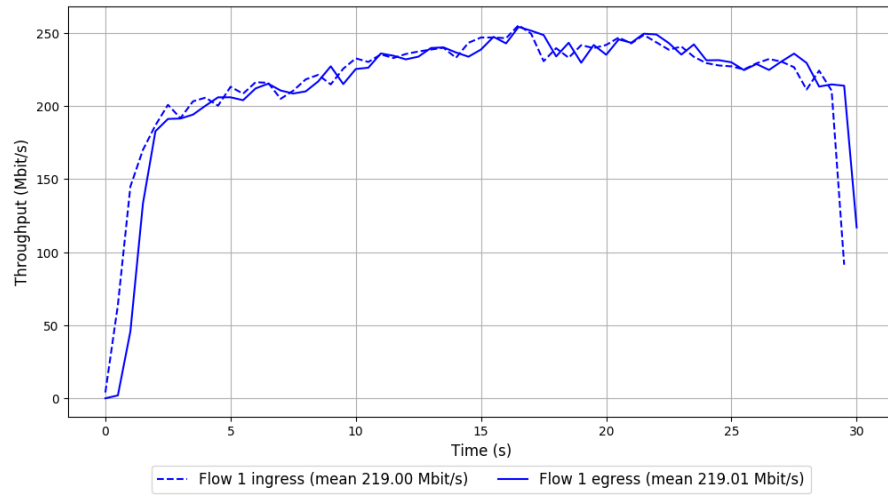
-- Flow 1:

Average throughput: 219.01 Mbit/s

95th percentile per-packet one-way delay: 58.258 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

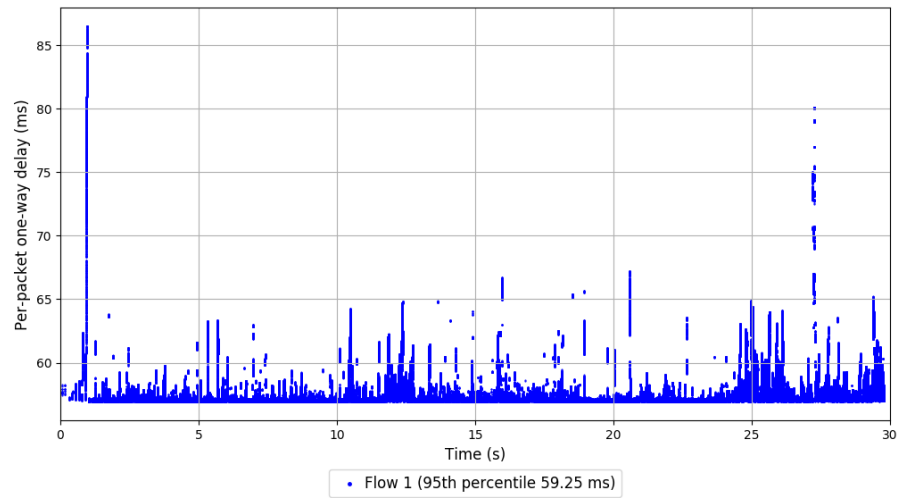
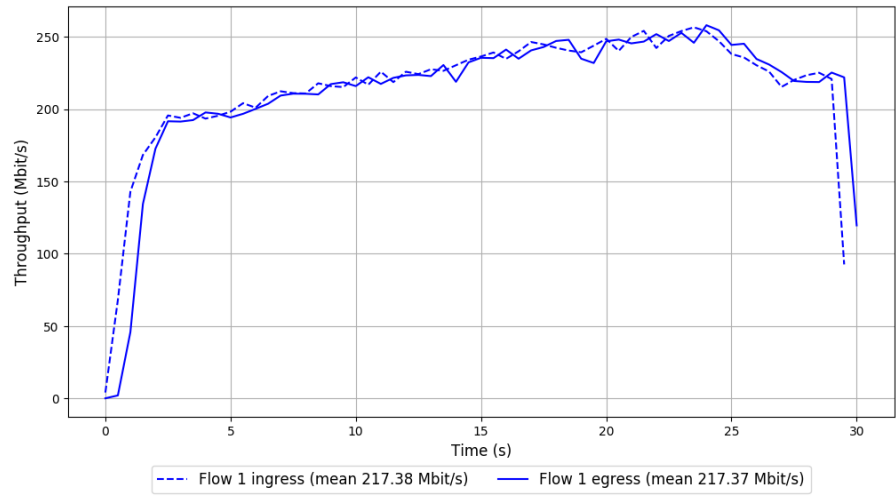


Run 5: Statistics of Indigo

Start at: 2019-12-12 05:29:51
End at: 2019-12-12 05:30:21
Local clock offset: -0.16 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-12-12 07:21:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.37 Mbit/s
95th percentile per-packet one-way delay: 59.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.37 Mbit/s
95th percentile per-packet one-way delay: 59.254 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

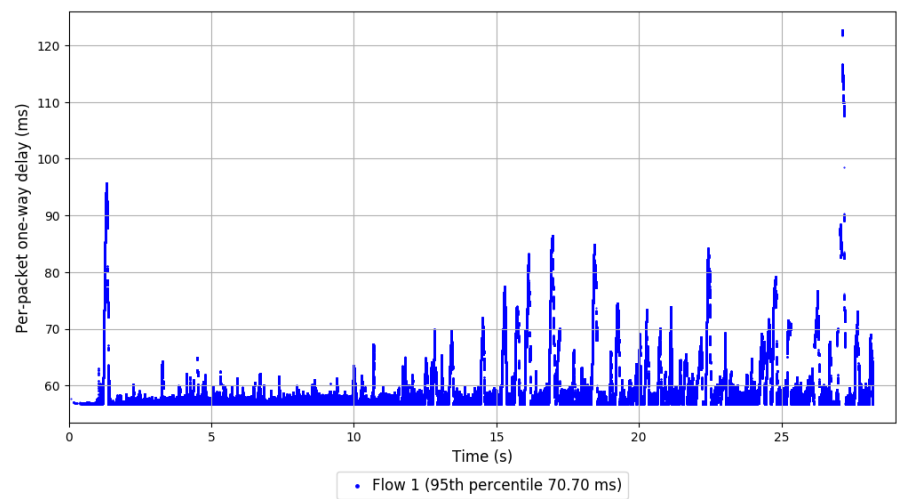
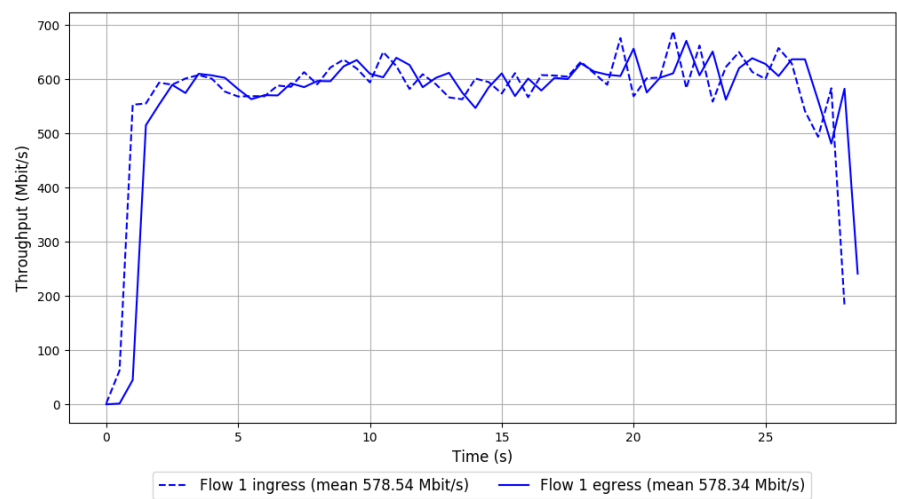


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-12-12 03:20:09
End at: 2019-12-12 03:20:39
Local clock offset: 0.121 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2019-12-12 07:21:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 578.34 Mbit/s
95th percentile per-packet one-way delay: 70.701 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 578.34 Mbit/s
95th percentile per-packet one-way delay: 70.701 ms
Loss rate: 0.03%

Run 1: Report of Indigo-MusesC3 — Data Link

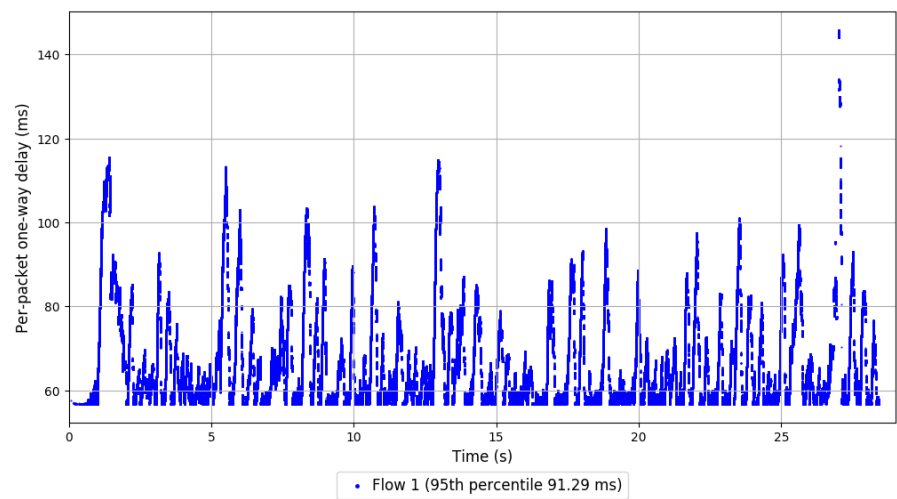
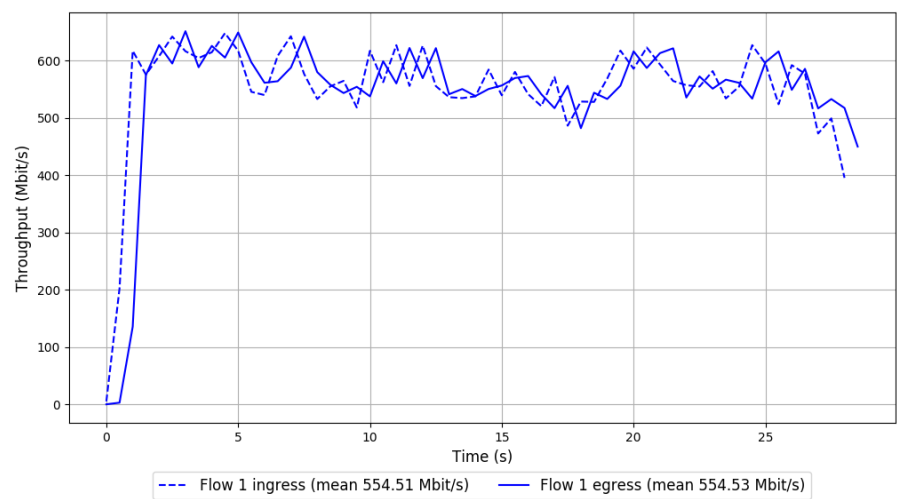


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-12-12 03:55:30
End at: 2019-12-12 03:56:00
Local clock offset: 0.231 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2019-12-12 07:24:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 554.53 Mbit/s
95th percentile per-packet one-way delay: 91.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 554.53 Mbit/s
95th percentile per-packet one-way delay: 91.288 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link

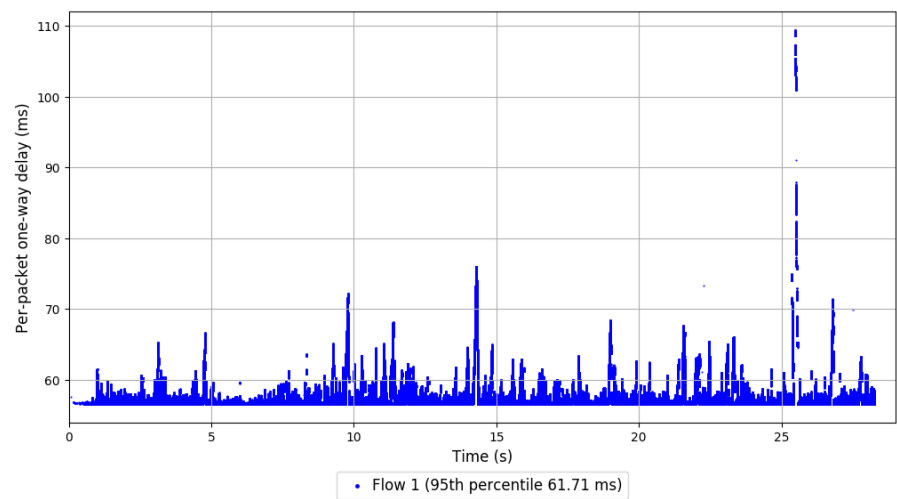
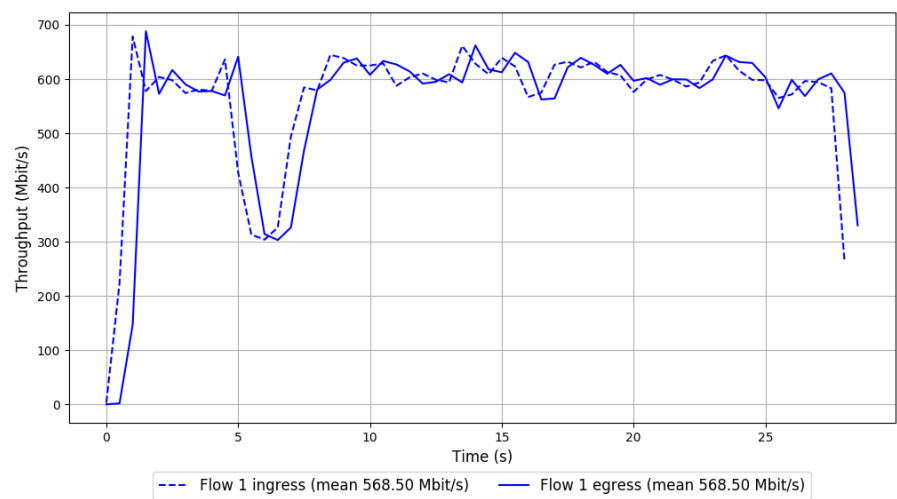


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-12-12 04:30:56
End at: 2019-12-12 04:31:26
Local clock offset: 0.439 ms
Remote clock offset: -0.292 ms

Below is generated by plot.py at 2019-12-12 07:27:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 568.50 Mbit/s
95th percentile per-packet one-way delay: 61.713 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 568.50 Mbit/s
95th percentile per-packet one-way delay: 61.713 ms
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link

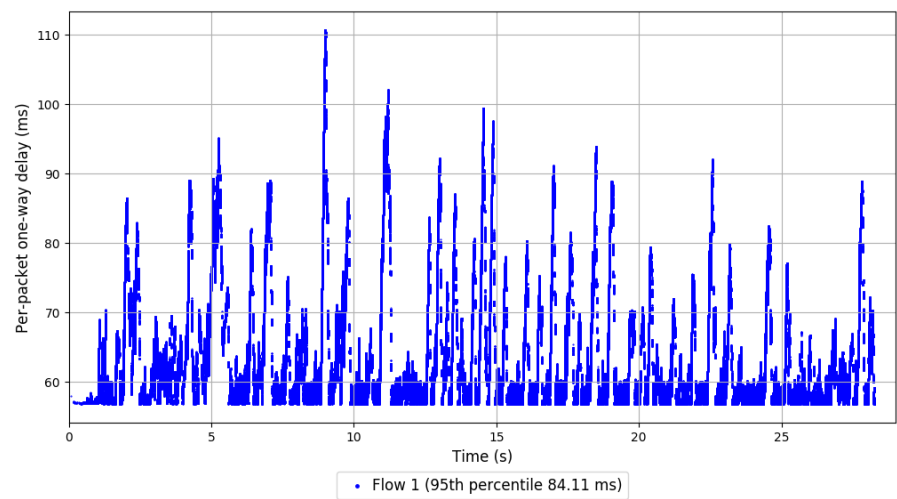
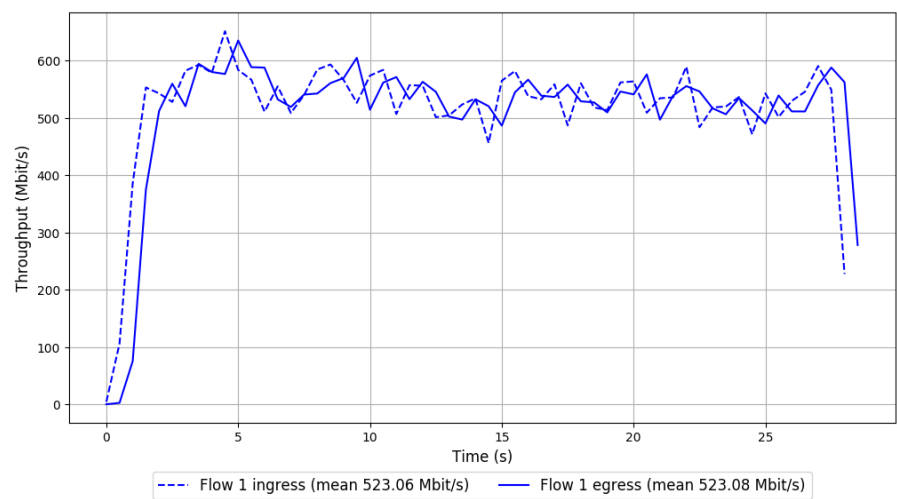


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-12-12 05:05:47
End at: 2019-12-12 05:06:17
Local clock offset: 0.087 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2019-12-12 07:27:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 523.08 Mbit/s
95th percentile per-packet one-way delay: 84.105 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 523.08 Mbit/s
95th percentile per-packet one-way delay: 84.105 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link

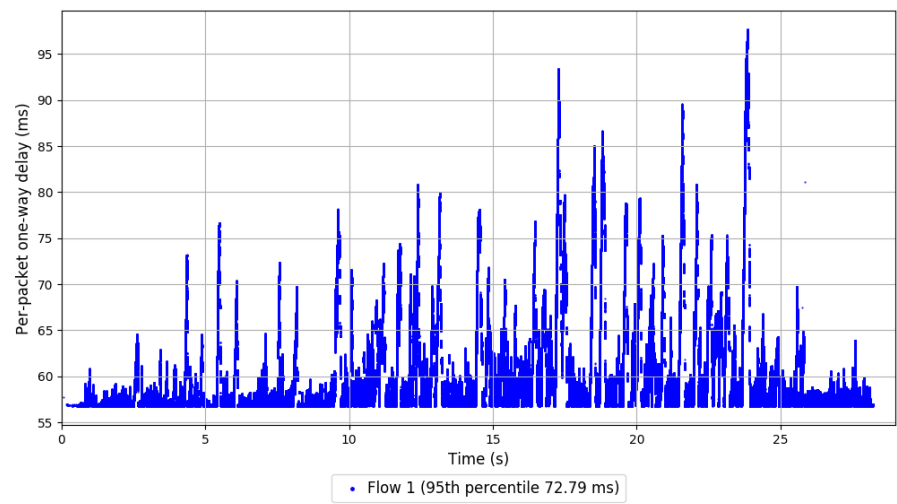
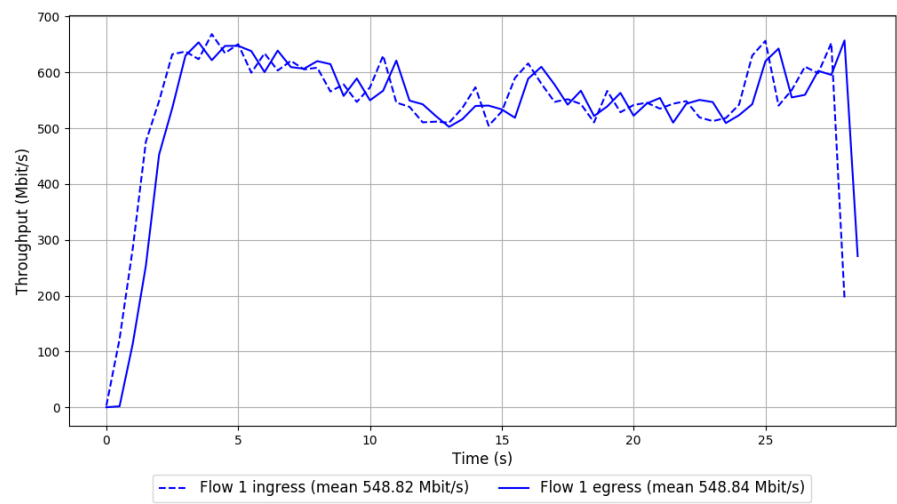


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-12-12 05:41:20
End at: 2019-12-12 05:41:50
Local clock offset: -0.125 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2019-12-12 07:27:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 548.84 Mbit/s
95th percentile per-packet one-way delay: 72.786 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 548.84 Mbit/s
95th percentile per-packet one-way delay: 72.786 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

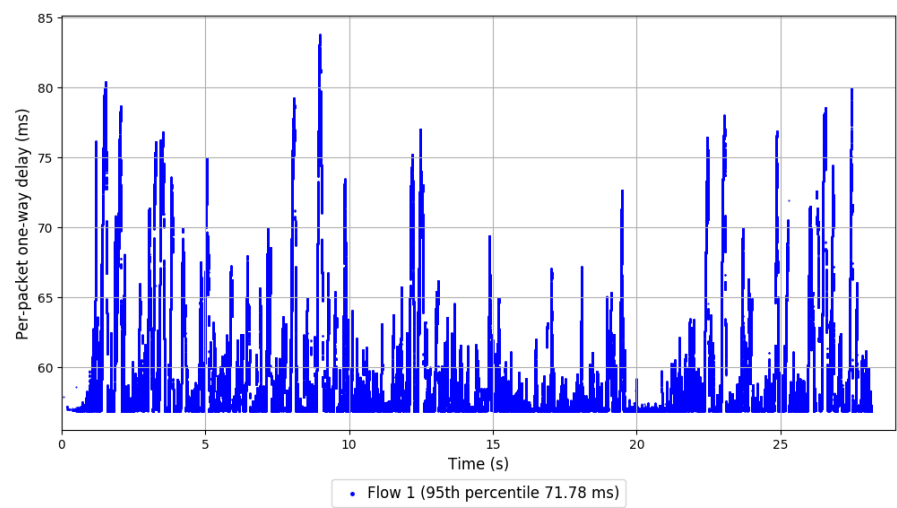
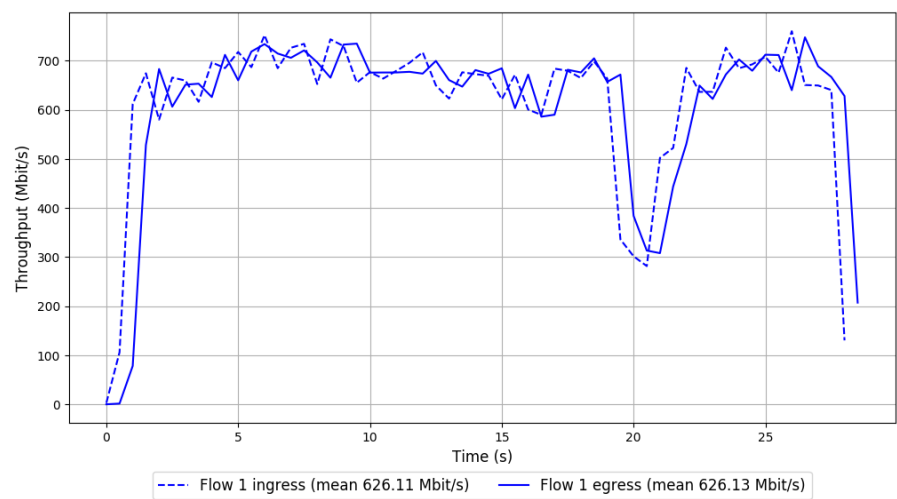


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-12-12 03:18:32
End at: 2019-12-12 03:19:02
Local clock offset: 0.098 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2019-12-12 07:28:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 626.13 Mbit/s
95th percentile per-packet one-way delay: 71.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 626.13 Mbit/s
95th percentile per-packet one-way delay: 71.783 ms
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link

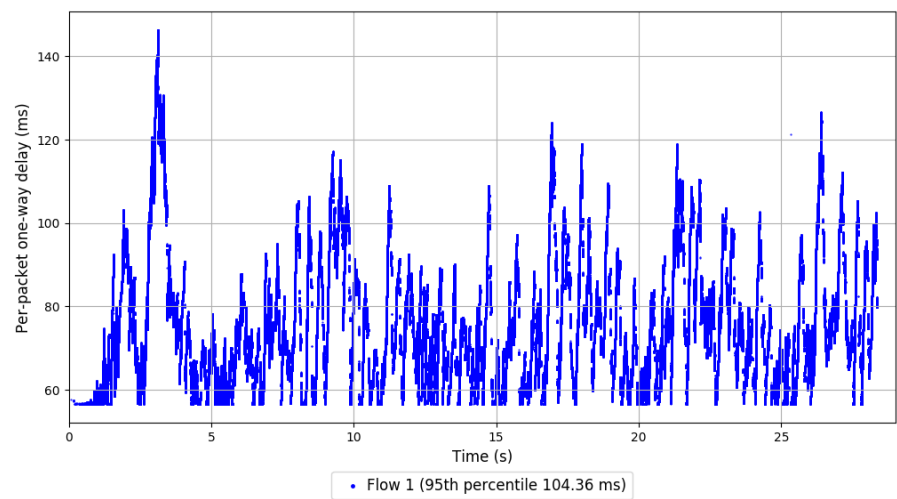
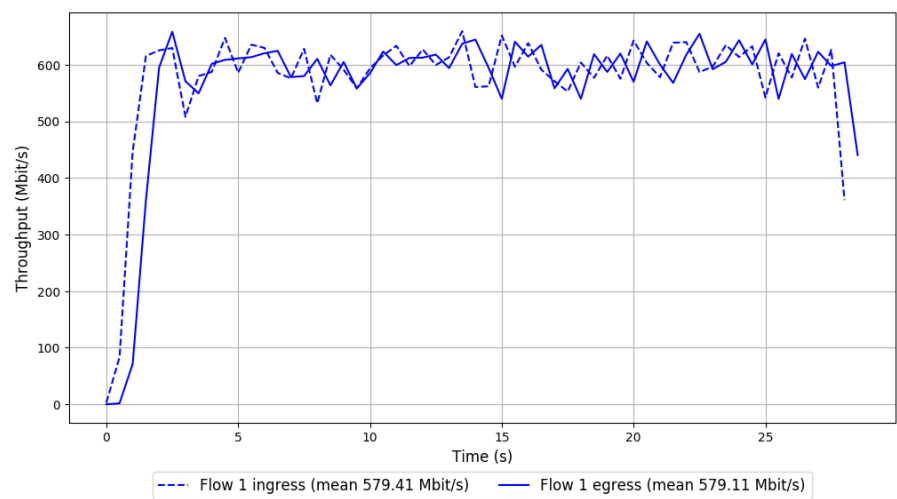


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-12-12 03:53:56
End at: 2019-12-12 03:54:26
Local clock offset: 0.267 ms
Remote clock offset: -0.209 ms

Below is generated by plot.py at 2019-12-12 07:28:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 579.11 Mbit/s
95th percentile per-packet one-way delay: 104.365 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 579.11 Mbit/s
95th percentile per-packet one-way delay: 104.365 ms
Loss rate: 0.05%

Run 2: Report of Indigo-MusesC5 — Data Link

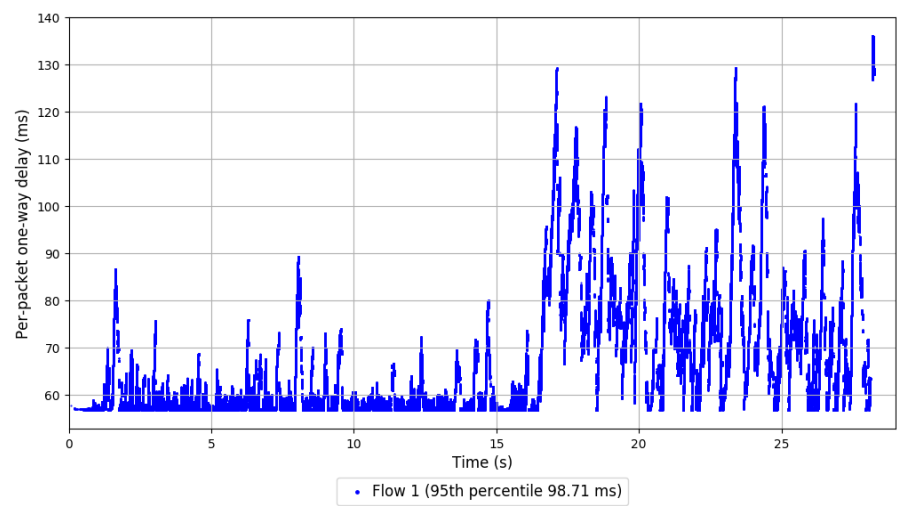
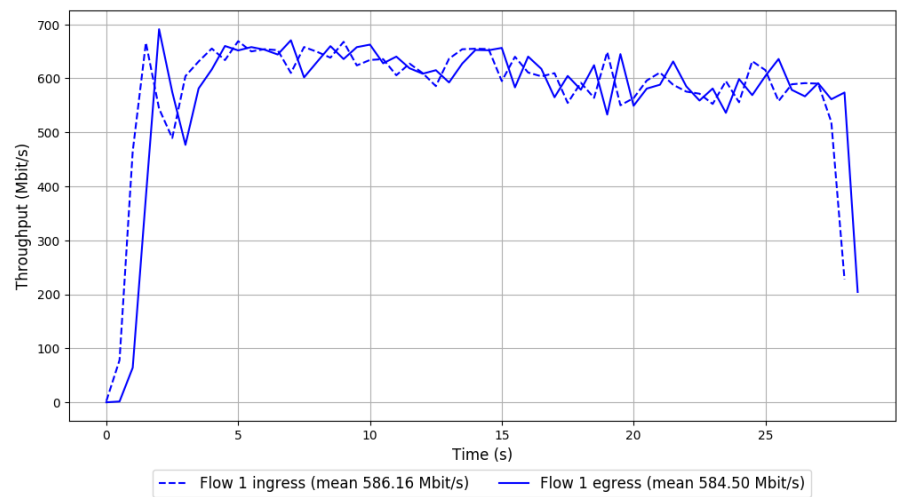


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-12-12 04:29:21
End at: 2019-12-12 04:29:51
Local clock offset: 0.463 ms
Remote clock offset: -0.218 ms

Below is generated by plot.py at 2019-12-12 07:31:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 584.50 Mbit/s
95th percentile per-packet one-way delay: 98.709 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 584.50 Mbit/s
95th percentile per-packet one-way delay: 98.709 ms
Loss rate: 0.26%

Run 3: Report of Indigo-MusesC5 — Data Link

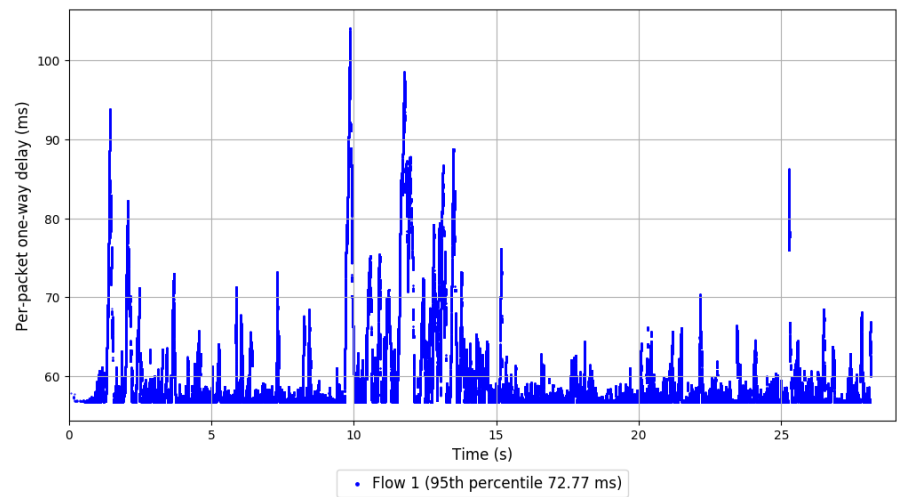
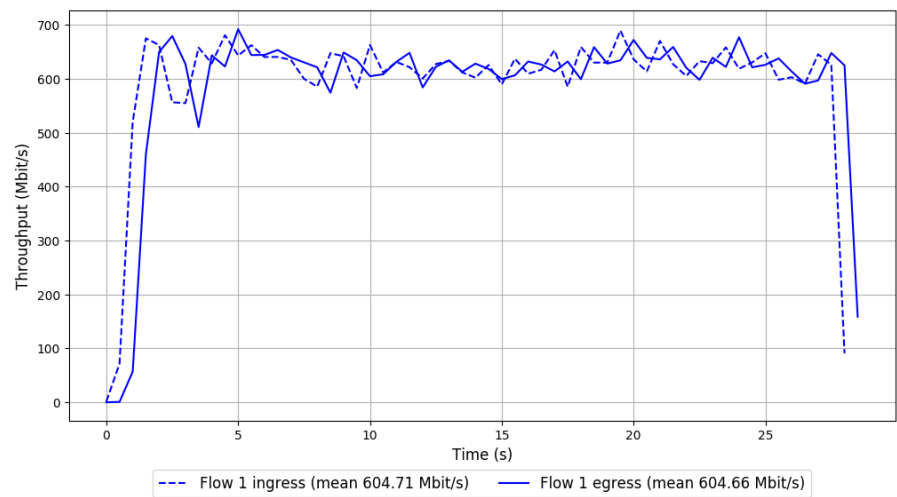


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-12-12 05:04:11
End at: 2019-12-12 05:04:41
Local clock offset: 0.146 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2019-12-12 07:34:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 604.66 Mbit/s
95th percentile per-packet one-way delay: 72.774 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 604.66 Mbit/s
95th percentile per-packet one-way delay: 72.774 ms
Loss rate: 0.01%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-12-12 05:39:45

End at: 2019-12-12 05:40:15

Local clock offset: -0.127 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2019-12-12 07:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 607.16 Mbit/s

95th percentile per-packet one-way delay: 66.824 ms

Loss rate: 0.01%

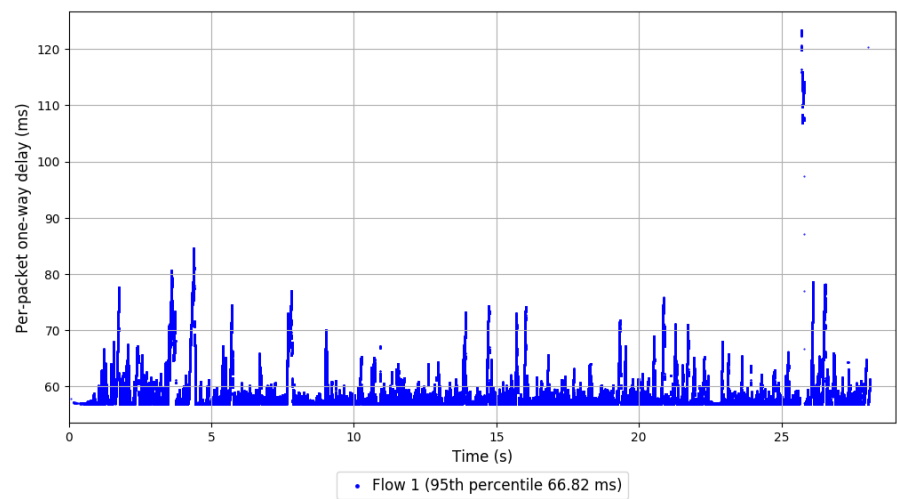
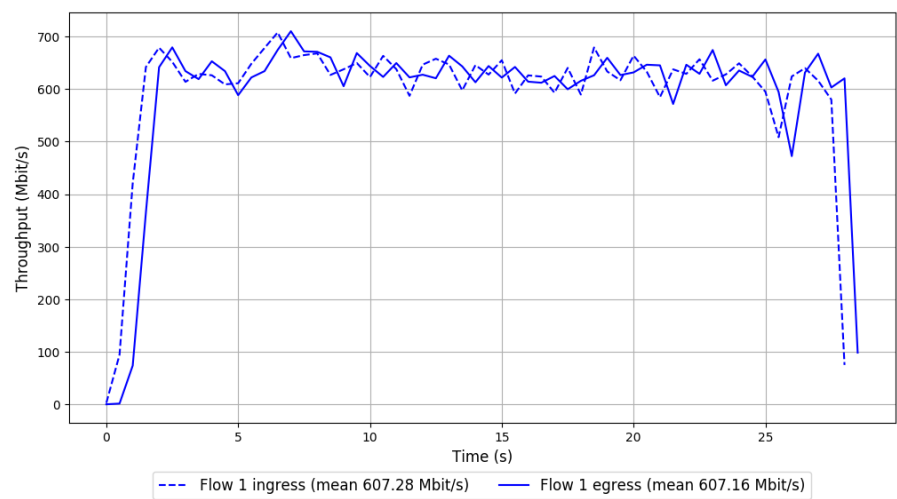
-- Flow 1:

Average throughput: 607.16 Mbit/s

95th percentile per-packet one-way delay: 66.824 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

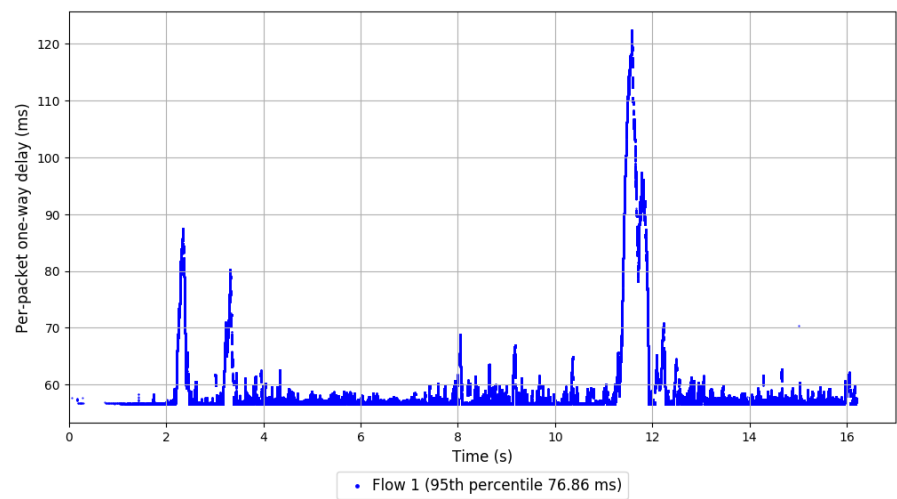
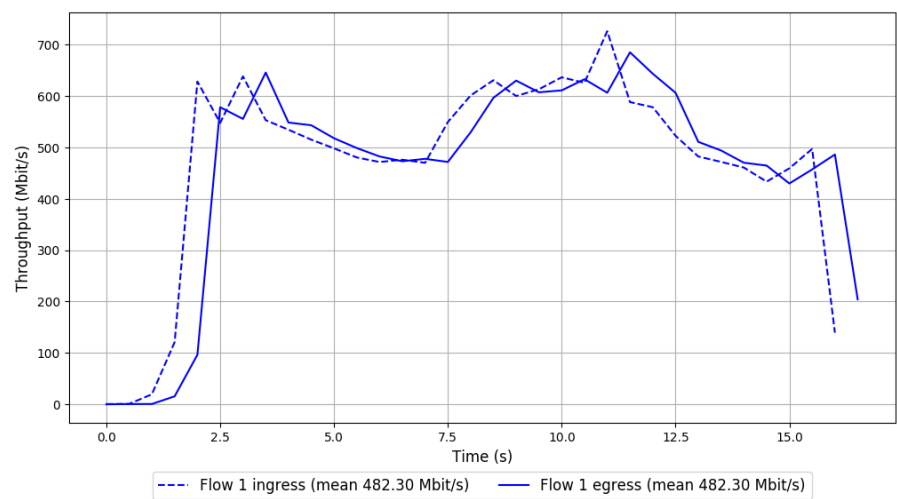
Start at: 2019-12-12 03:04:56

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

Local clock offset: 0.12 ms

Remote clock offset: -0.12 ms

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-12-12 03:40:08

End at: 2019-12-12 03:40:39

Local clock offset: 0.154 ms

Remote clock offset: -0.221 ms

Below is generated by plot.py at 2019-12-12 07:37:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 515.85 Mbit/s

95th percentile per-packet one-way delay: 97.594 ms

Loss rate: 0.00%

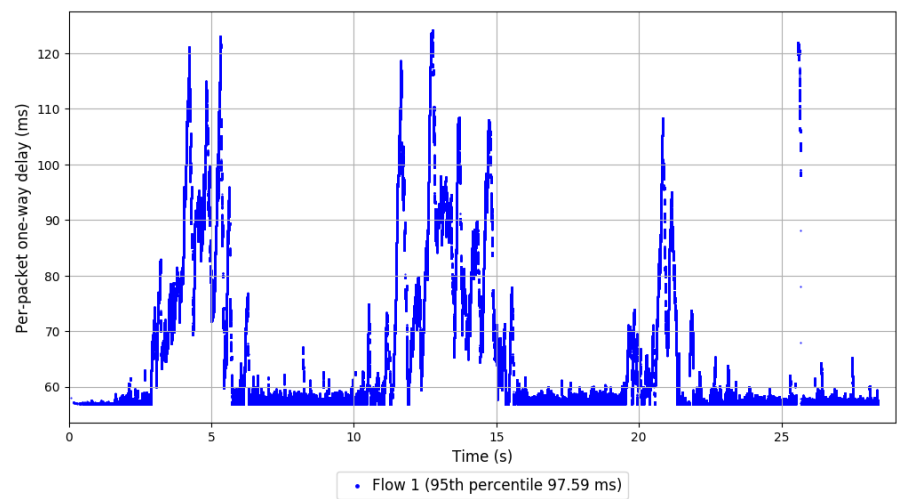
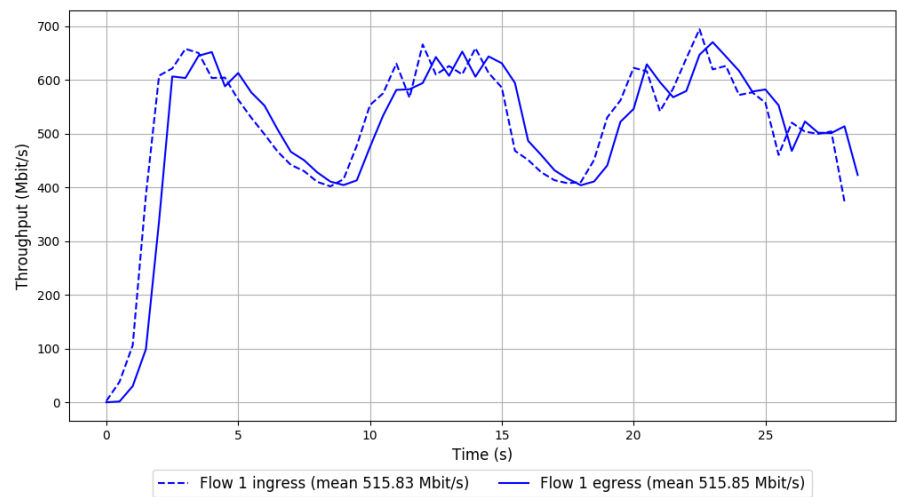
-- Flow 1:

Average throughput: 515.85 Mbit/s

95th percentile per-packet one-way delay: 97.594 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link

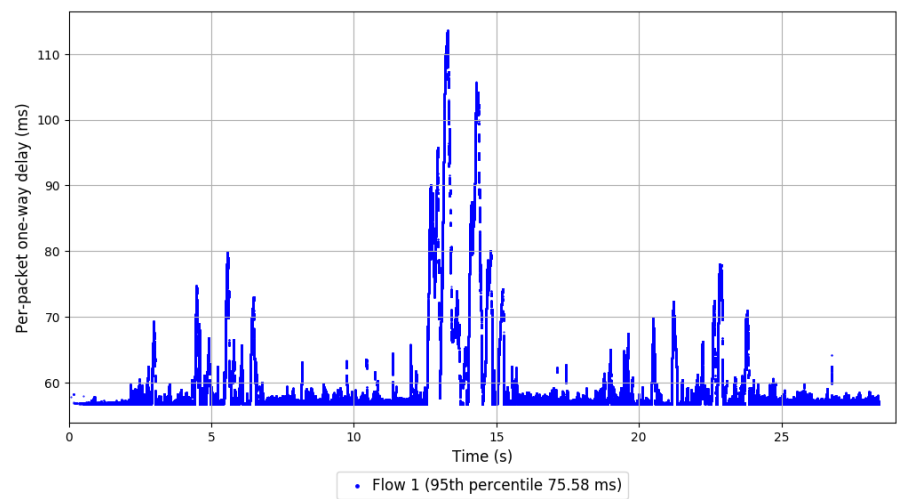
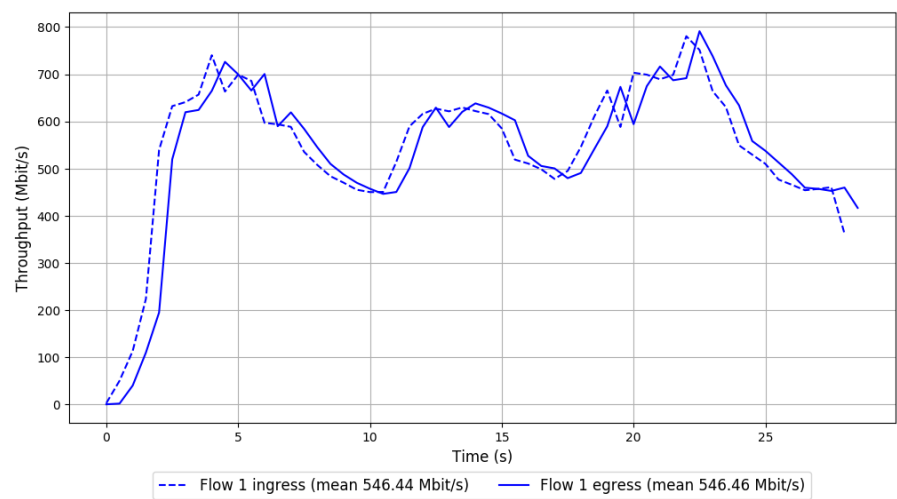


Run 3: Statistics of Indigo-MusesD

Start at: 2019-12-12 04:15:31
End at: 2019-12-12 04:16:01
Local clock offset: 0.326 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2019-12-12 07:38:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 546.46 Mbit/s
95th percentile per-packet one-way delay: 75.582 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 546.46 Mbit/s
95th percentile per-packet one-way delay: 75.582 ms
Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-12-12 04:50:53

End at: 2019-12-12 04:51:23

Local clock offset: 0.637 ms

Remote clock offset: -0.138 ms

Below is generated by plot.py at 2019-12-12 07:38:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 471.99 Mbit/s

95th percentile per-packet one-way delay: 83.677 ms

Loss rate: 0.01%

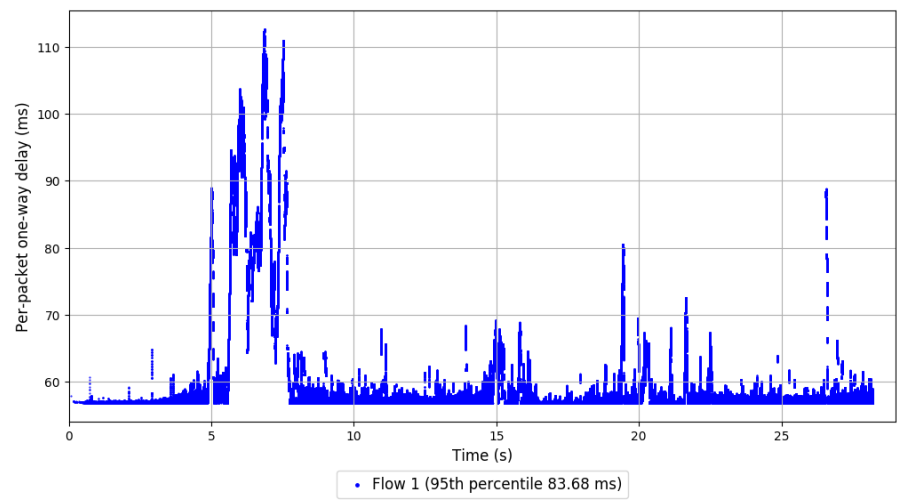
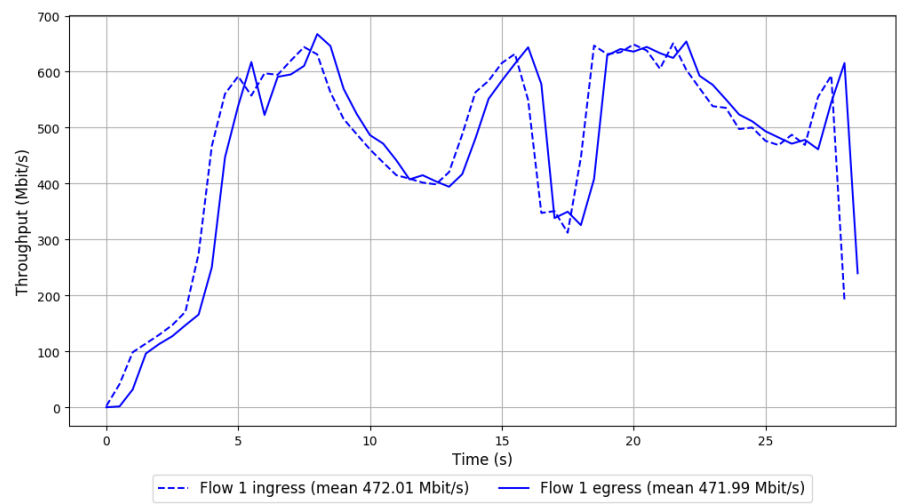
-- Flow 1:

Average throughput: 471.99 Mbit/s

95th percentile per-packet one-way delay: 83.677 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesD — Data Link

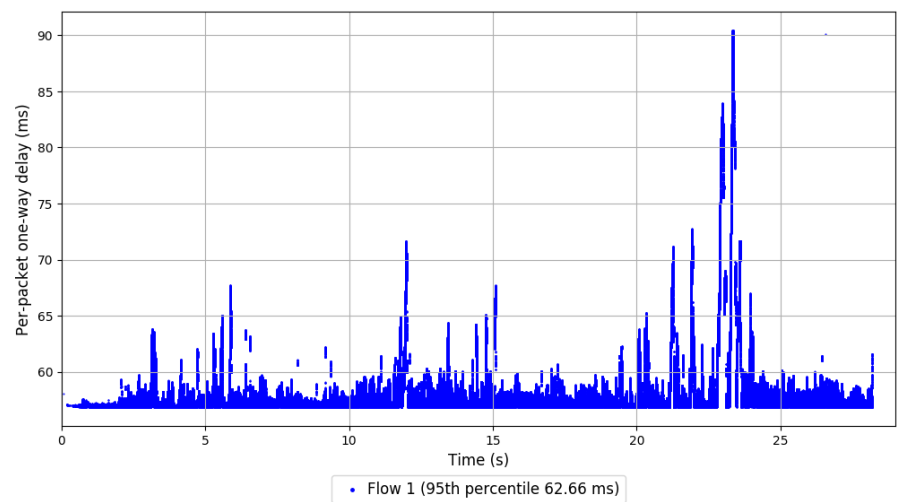
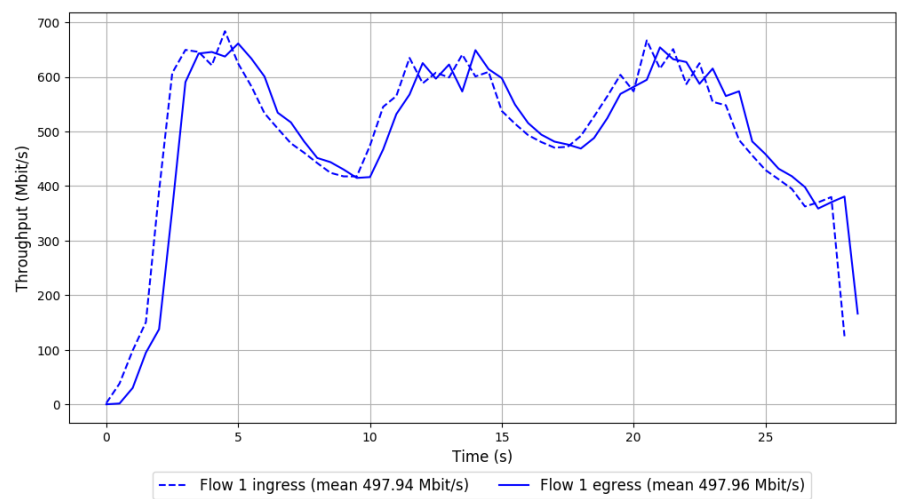


Run 5: Statistics of Indigo-MusesD

Start at: 2019-12-12 05:26:00
End at: 2019-12-12 05:26:30
Local clock offset: -0.183 ms
Remote clock offset: -0.148 ms

Below is generated by plot.py at 2019-12-12 07:38:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 497.96 Mbit/s
95th percentile per-packet one-way delay: 62.657 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 497.96 Mbit/s
95th percentile per-packet one-way delay: 62.657 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-12-12 03:36:58

End at: 2019-12-12 03:37:28

Local clock offset: 0.144 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2019-12-12 07:43:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 625.37 Mbit/s

95th percentile per-packet one-way delay: 70.188 ms

Loss rate: 0.02%

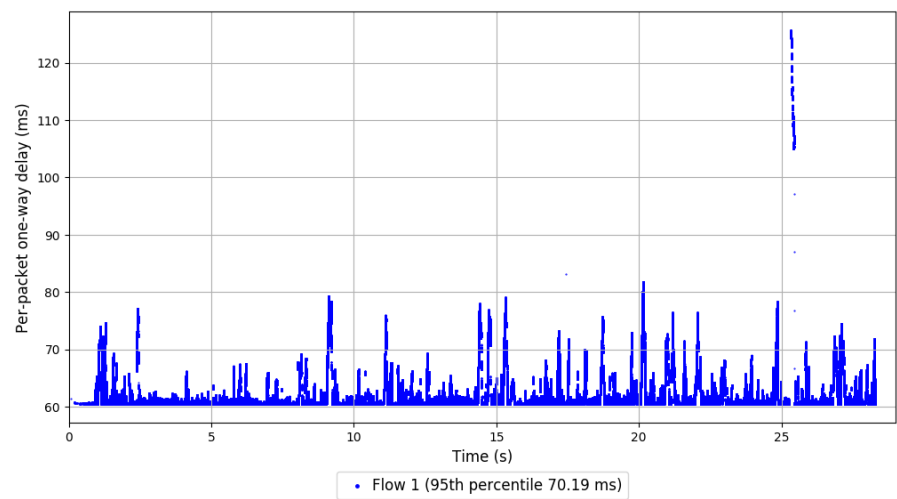
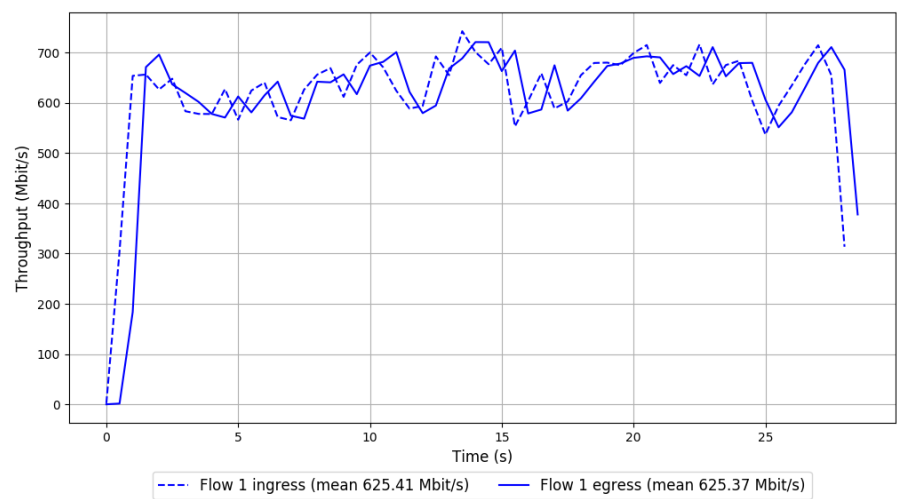
-- Flow 1:

Average throughput: 625.37 Mbit/s

95th percentile per-packet one-way delay: 70.188 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-12-12 04:12:16

End at: 2019-12-12 04:12:46

Local clock offset: 0.32 ms

Remote clock offset: -0.106 ms

Below is generated by plot.py at 2019-12-12 07:44:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 621.98 Mbit/s

95th percentile per-packet one-way delay: 67.553 ms

Loss rate: 0.00%

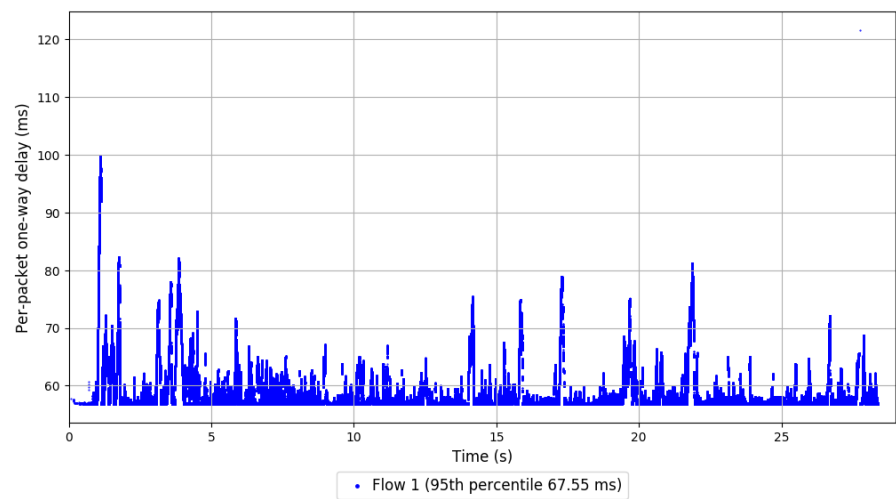
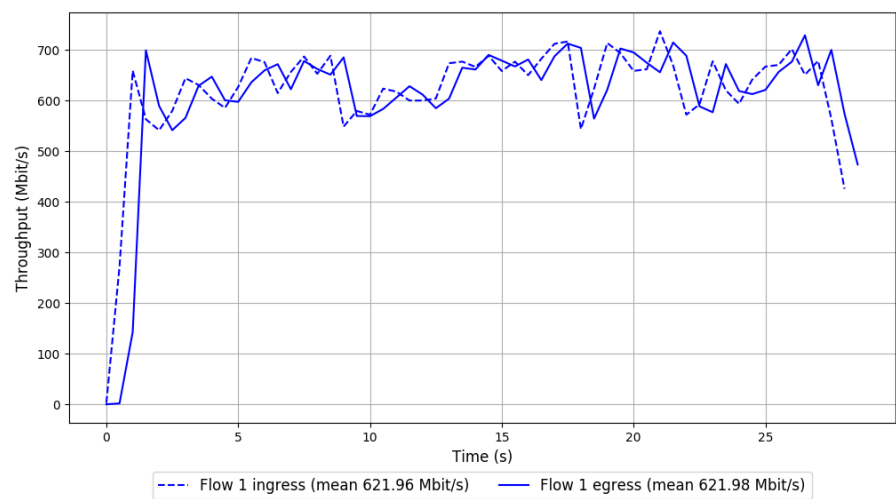
-- Flow 1:

Average throughput: 621.98 Mbit/s

95th percentile per-packet one-way delay: 67.553 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-12-12 04:47:38

End at: 2019-12-12 04:48:08

Local clock offset: 0.565 ms

Remote clock offset: -0.014 ms

Below is generated by plot.py at 2019-12-12 07:46:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 626.31 Mbit/s

95th percentile per-packet one-way delay: 93.104 ms

Loss rate: 0.15%

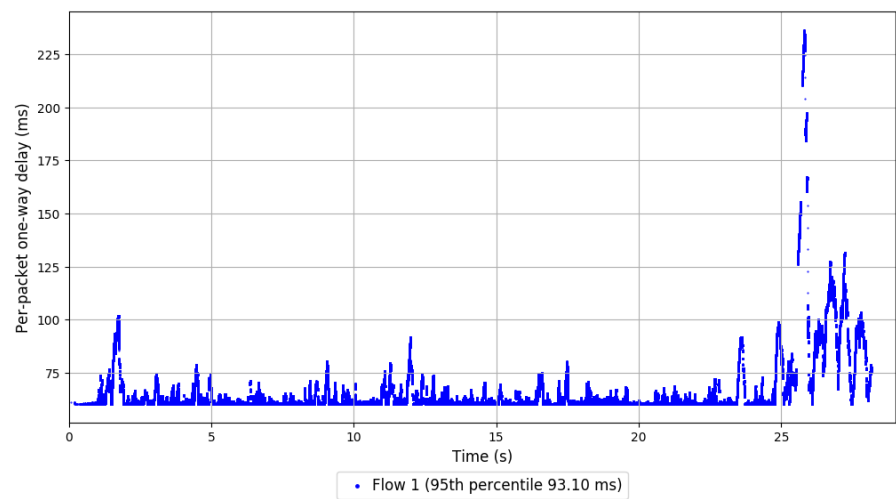
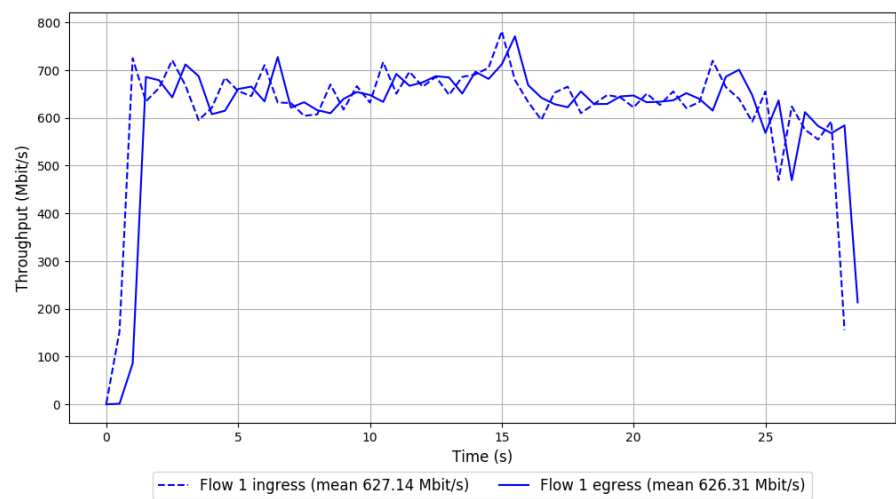
-- Flow 1:

Average throughput: 626.31 Mbit/s

95th percentile per-packet one-way delay: 93.104 ms

Loss rate: 0.15%

Run 3: Report of Indigo-MusesT — Data Link

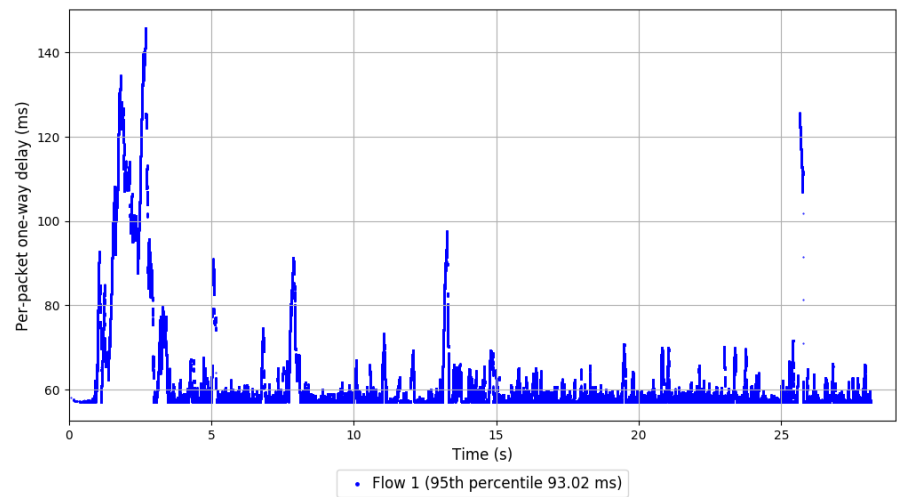
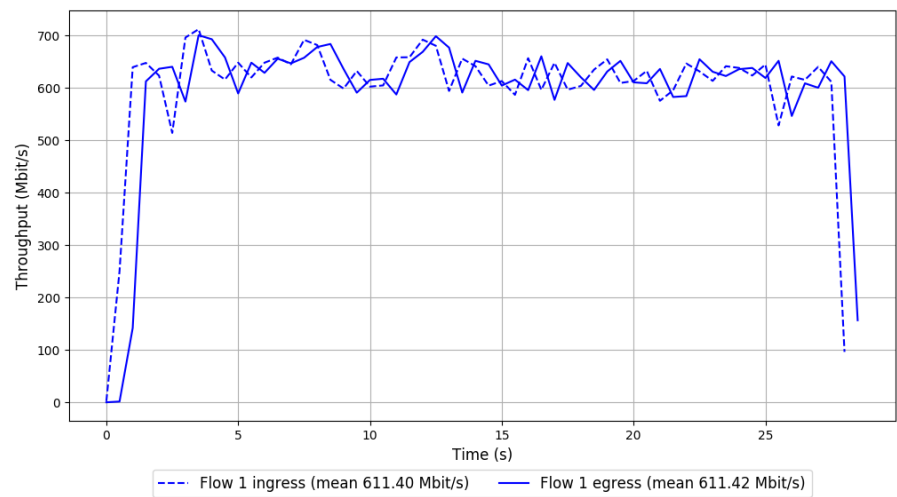


Run 4: Statistics of Indigo-MusesT

Start at: 2019-12-12 05:22:49
End at: 2019-12-12 05:23:19
Local clock offset: -0.139 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2019-12-12 07:48:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 611.42 Mbit/s
95th percentile per-packet one-way delay: 93.023 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 611.42 Mbit/s
95th percentile per-packet one-way delay: 93.023 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesT — Data Link

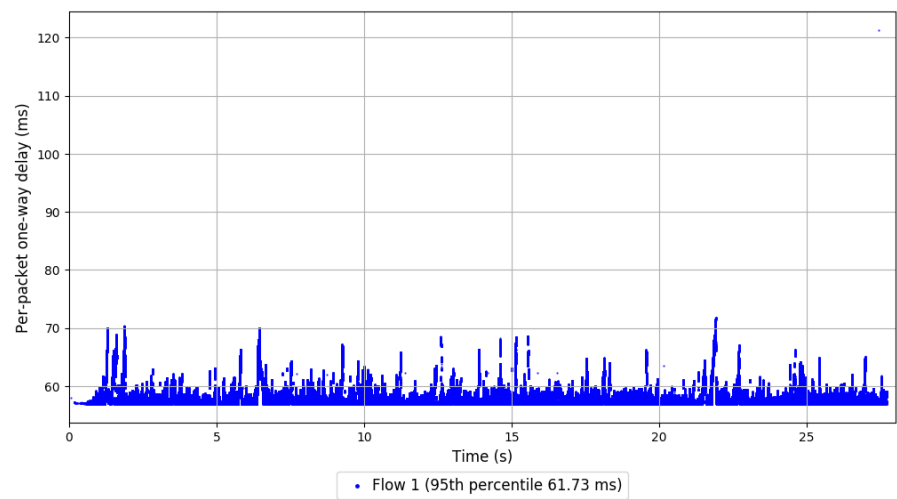
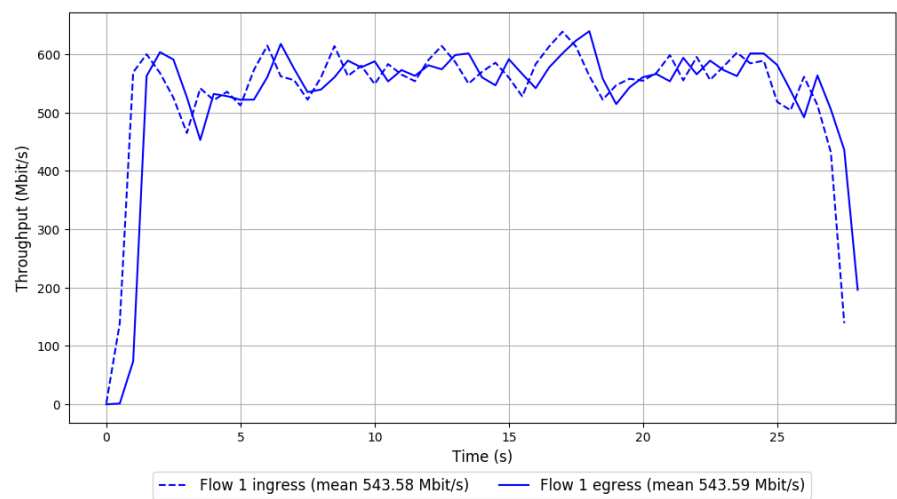


Run 5: Statistics of Indigo-MusesT

Start at: 2019-12-12 05:58:15
End at: 2019-12-12 05:58:45
Local clock offset: -0.102 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2019-12-12 07:48:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 543.59 Mbit/s
95th percentile per-packet one-way delay: 61.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 543.59 Mbit/s
95th percentile per-packet one-way delay: 61.727 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link

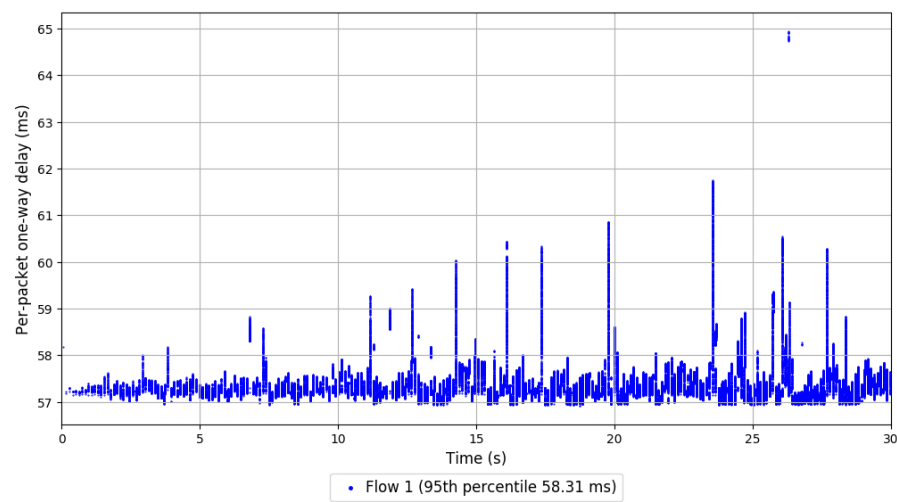
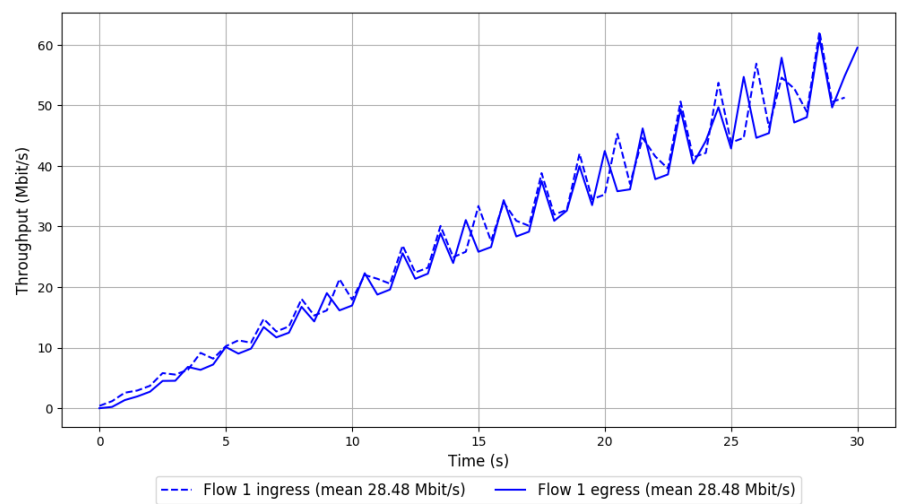


```
Run 1: Statistics of LEDBAT

Start at: 2019-12-12 03:14:18
End at: 2019-12-12 03:14:48
Local clock offset: 0.113 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-12-12 07:48:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.48 Mbit/s
95th percentile per-packet one-way delay: 58.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.48 Mbit/s
95th percentile per-packet one-way delay: 58.310 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

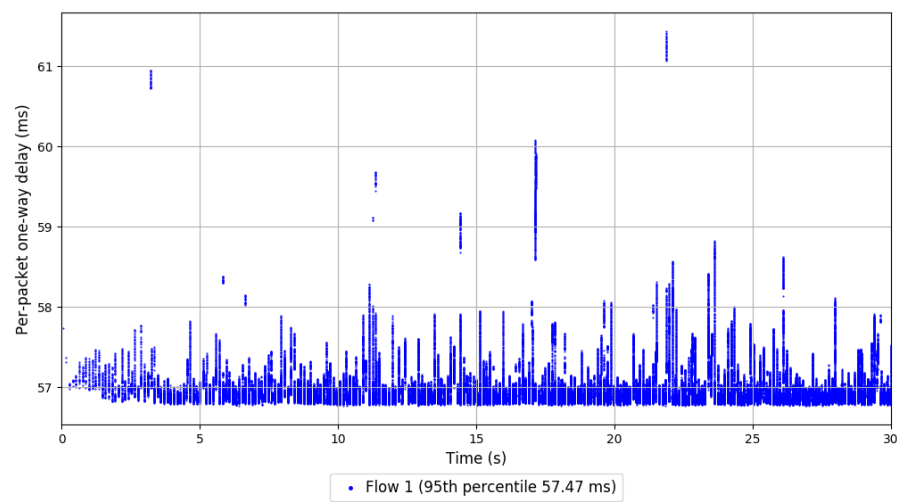
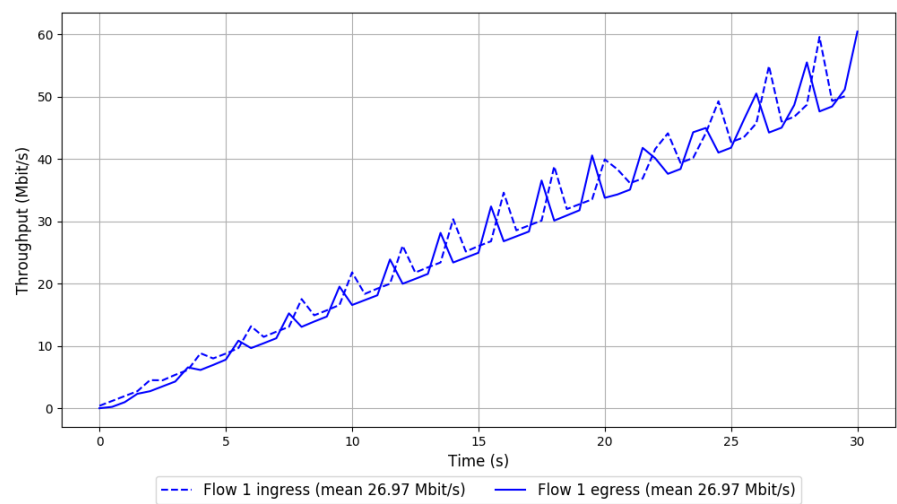


Run 2: Statistics of LEDBAT

Start at: 2019-12-12 03:49:44
End at: 2019-12-12 03:50:14
Local clock offset: 0.21 ms
Remote clock offset: -0.283 ms

Below is generated by plot.py at 2019-12-12 07:48:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.97 Mbit/s
95th percentile per-packet one-way delay: 57.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.97 Mbit/s
95th percentile per-packet one-way delay: 57.465 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

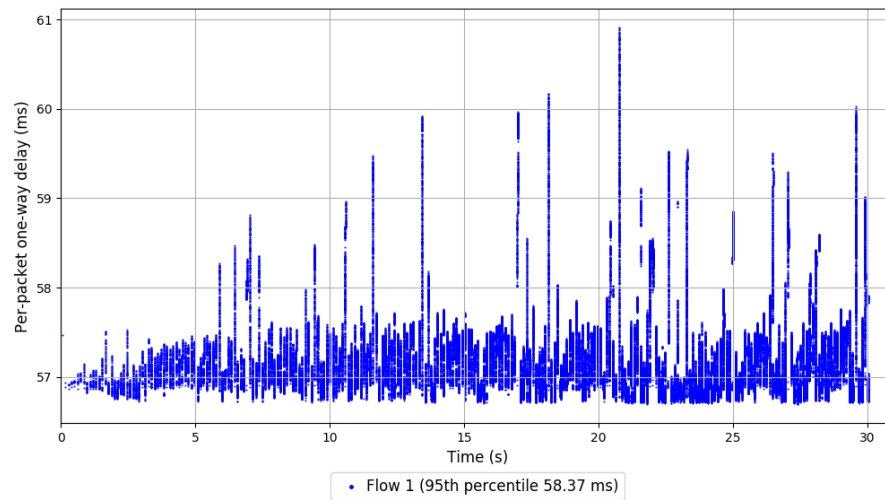
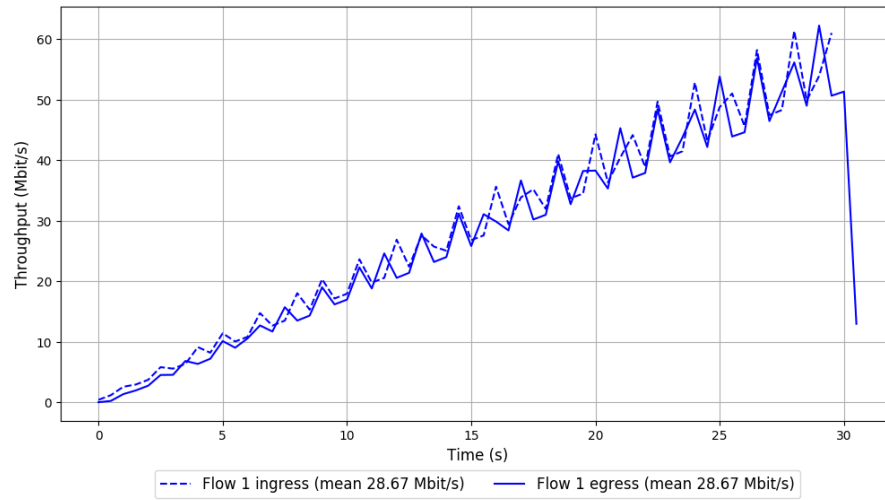


Run 3: Statistics of LEDBAT

Start at: 2019-12-12 04:25:07
End at: 2019-12-12 04:25:37
Local clock offset: 0.365 ms
Remote clock offset: -0.153 ms

Below is generated by plot.py at 2019-12-12 07:48:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.67 Mbit/s
95th percentile per-packet one-way delay: 58.369 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.67 Mbit/s
95th percentile per-packet one-way delay: 58.369 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

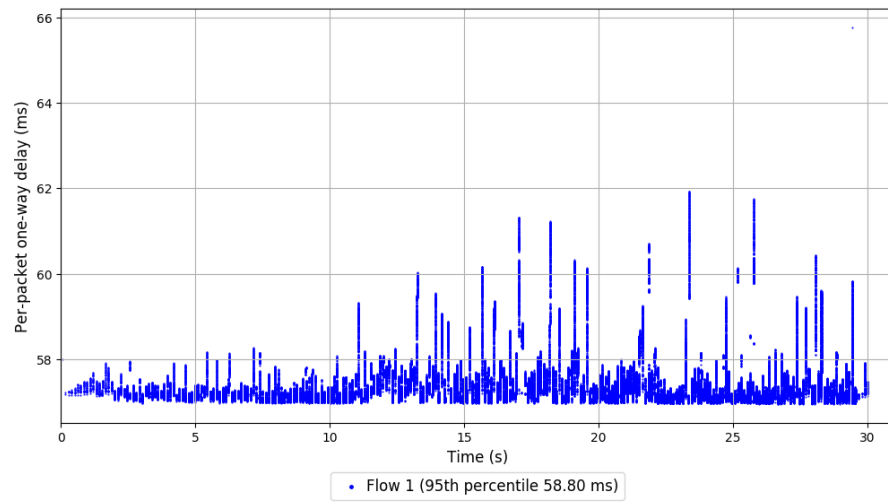
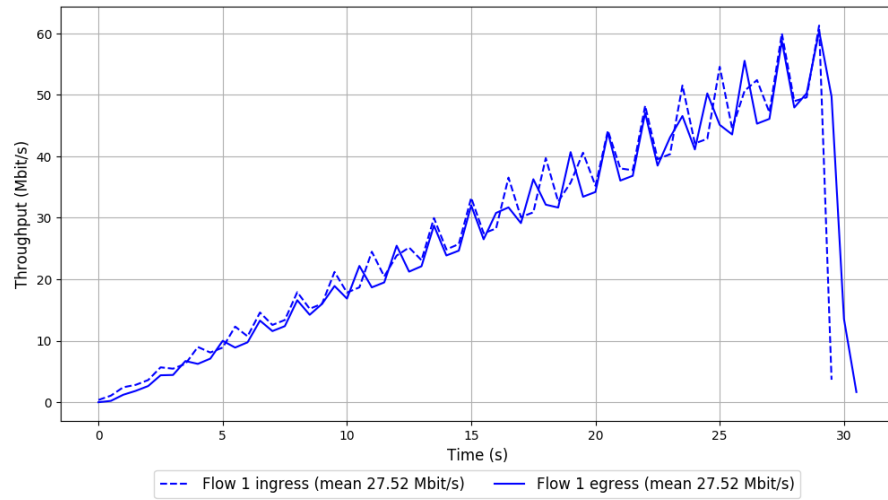


Run 4: Statistics of LEDBAT

Start at: 2019-12-12 05:00:23
End at: 2019-12-12 05:00:53
Local clock offset: 0.308 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2019-12-12 07:48:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 27.52 Mbit/s
95th percentile per-packet one-way delay: 58.803 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.52 Mbit/s
95th percentile per-packet one-way delay: 58.803 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-12-12 05:35:33

End at: 2019-12-12 05:36:03

Local clock offset: -0.101 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2019-12-12 07:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.59 Mbit/s

95th percentile per-packet one-way delay: 58.457 ms

Loss rate: 0.00%

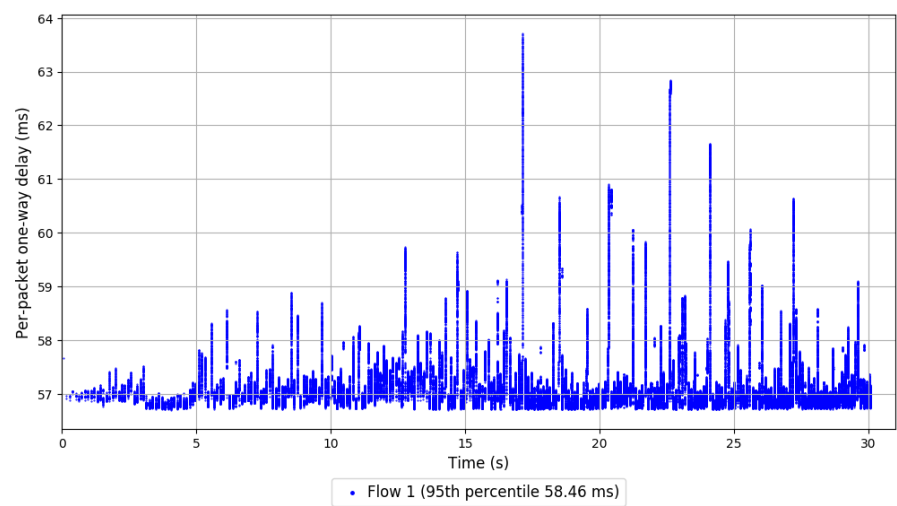
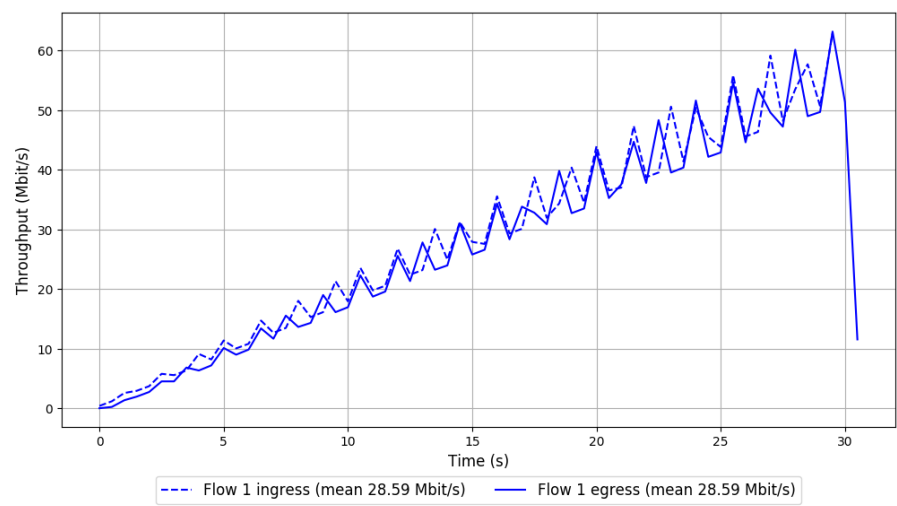
-- Flow 1:

Average throughput: 28.59 Mbit/s

95th percentile per-packet one-way delay: 58.457 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

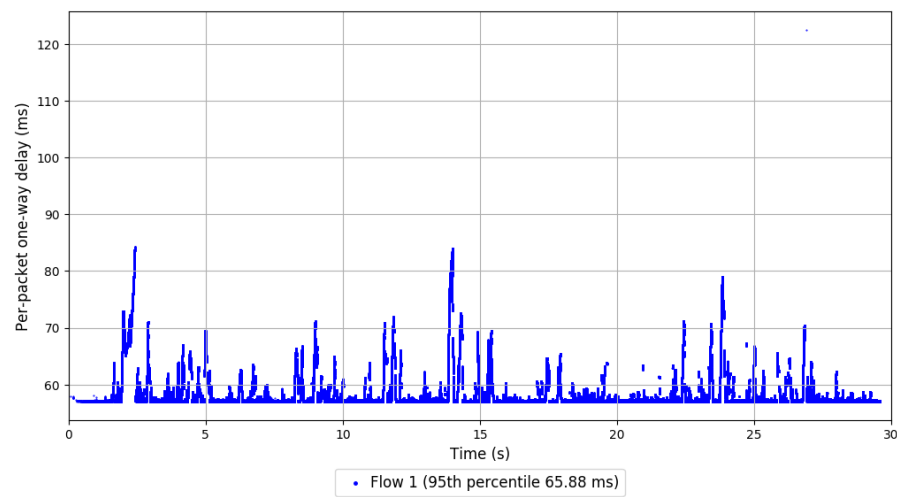
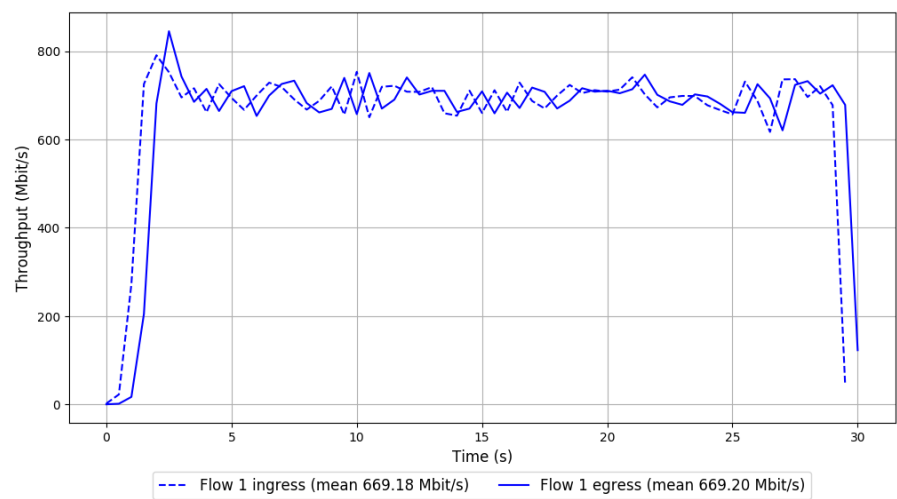


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-12-12 03:28:08
End at: 2019-12-12 03:28:38
Local clock offset: 0.171 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-12-12 07:54:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 669.20 Mbit/s
95th percentile per-packet one-way delay: 65.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 669.20 Mbit/s
95th percentile per-packet one-way delay: 65.884 ms
Loss rate: 0.00%
```

Run 1: Report of Muses_DecisionTree — Data Link

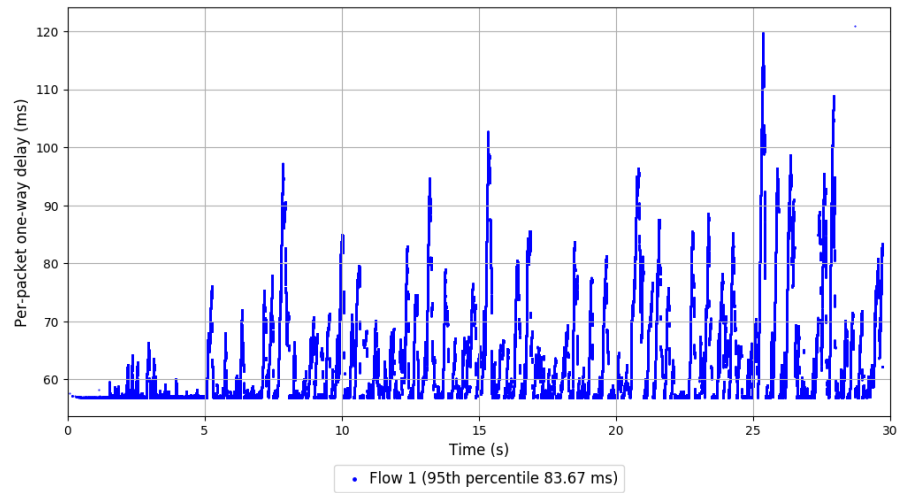
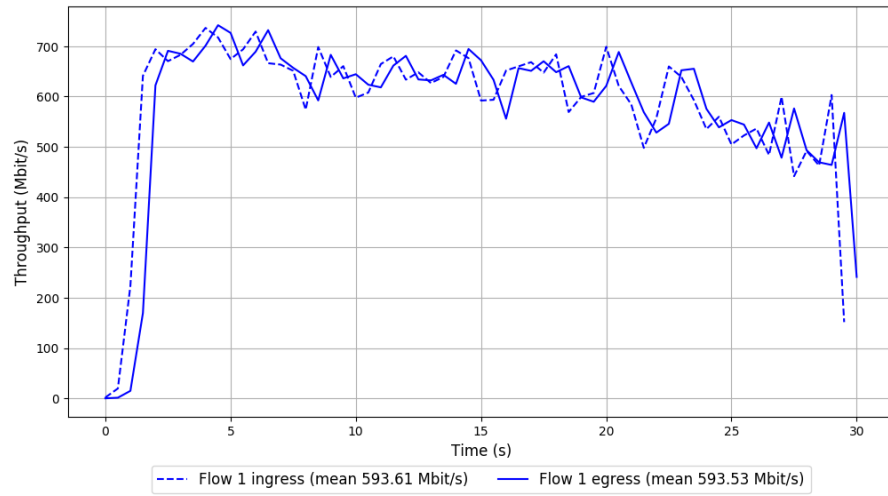


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-12-12 04:03:23
End at: 2019-12-12 04:03:53
Local clock offset: 0.258 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2019-12-12 07:54:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 593.53 Mbit/s
95th percentile per-packet one-way delay: 83.666 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 593.53 Mbit/s
95th percentile per-packet one-way delay: 83.666 ms
Loss rate: 0.01%

Run 2: Report of Muses_DecisionTree — Data Link

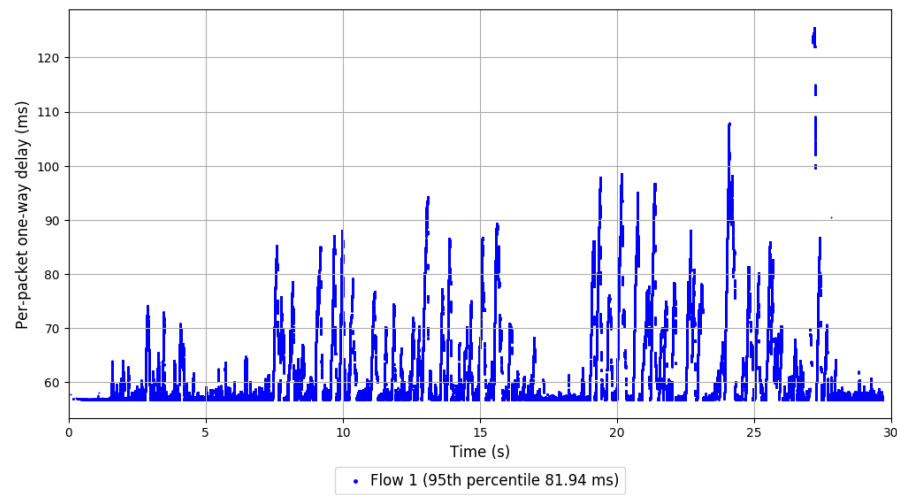
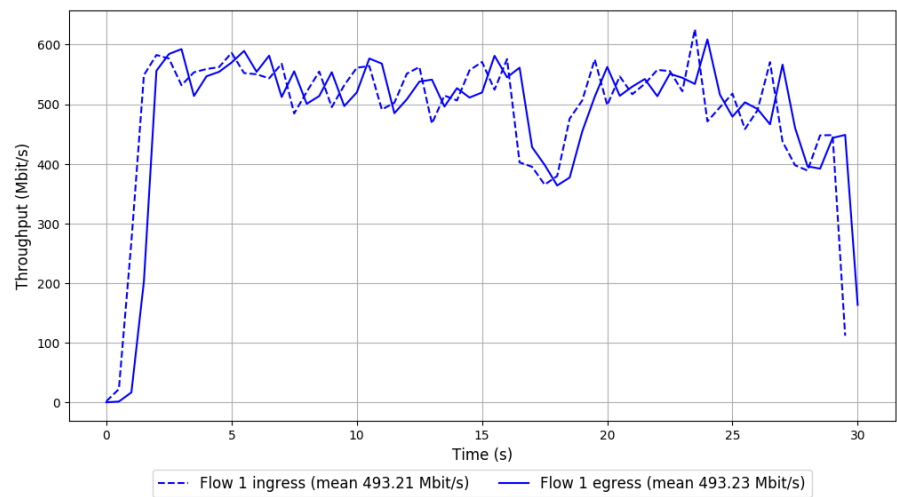


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-12-12 04:38:49
End at: 2019-12-12 04:39:19
Local clock offset: 0.475 ms
Remote clock offset: -0.162 ms

Below is generated by plot.py at 2019-12-12 07:54:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 493.23 Mbit/s
95th percentile per-packet one-way delay: 81.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 493.23 Mbit/s
95th percentile per-packet one-way delay: 81.940 ms
Loss rate: 0.00%

Run 3: Report of Muses_DecisionTree — Data Link

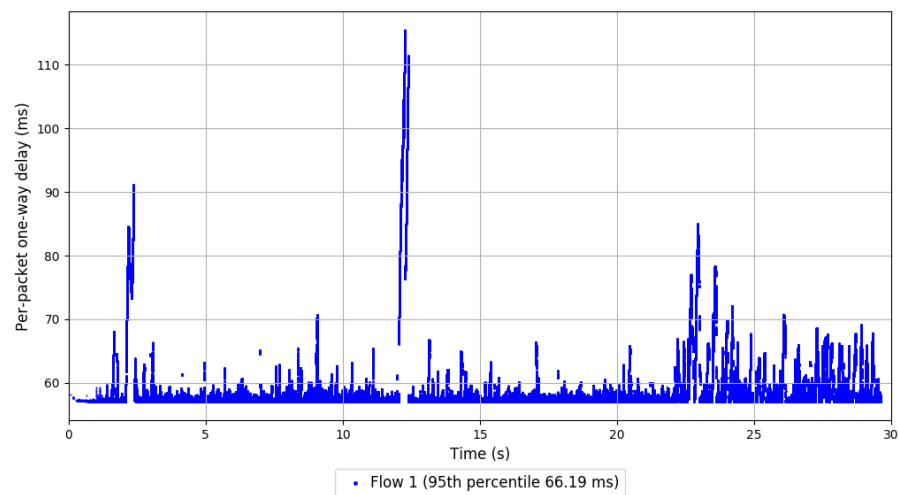
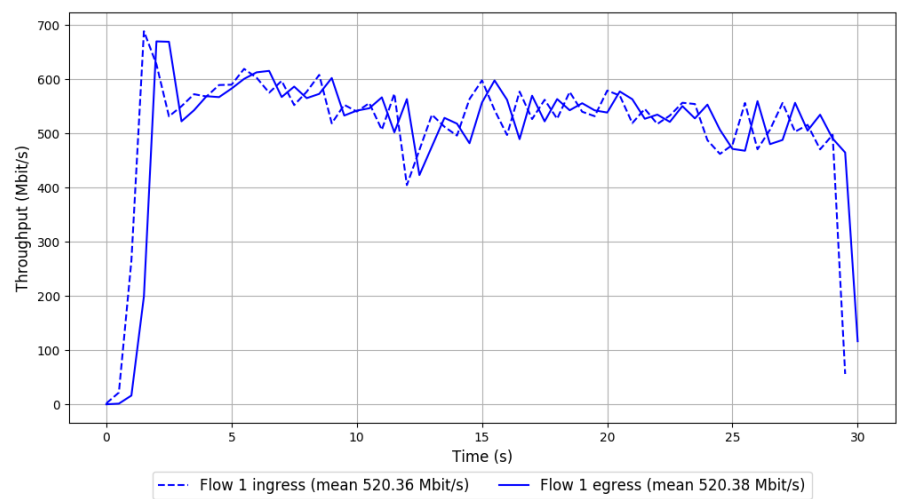


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-12-12 05:13:50
End at: 2019-12-12 05:14:20
Local clock offset: -0.04 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2019-12-12 07:54:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 520.38 Mbit/s
95th percentile per-packet one-way delay: 66.194 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 520.38 Mbit/s
95th percentile per-packet one-way delay: 66.194 ms
Loss rate: 0.00%

Run 4: Report of Muses_DecisionTree — Data Link

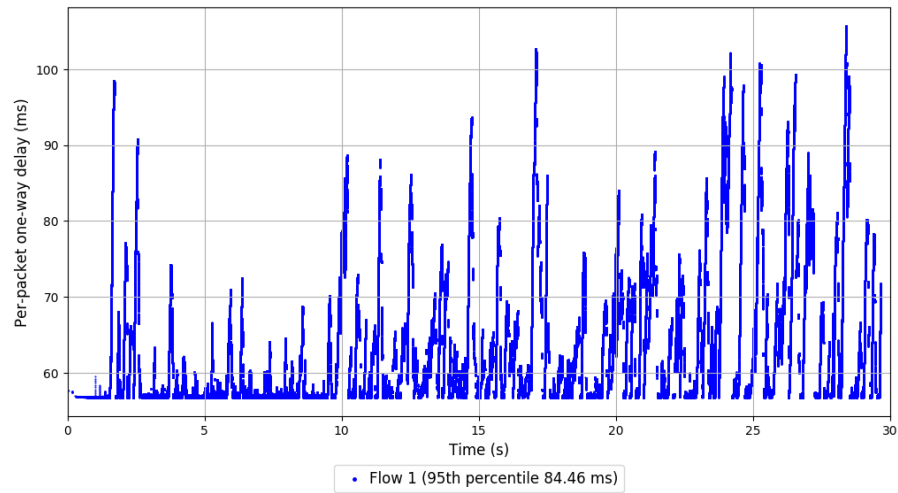
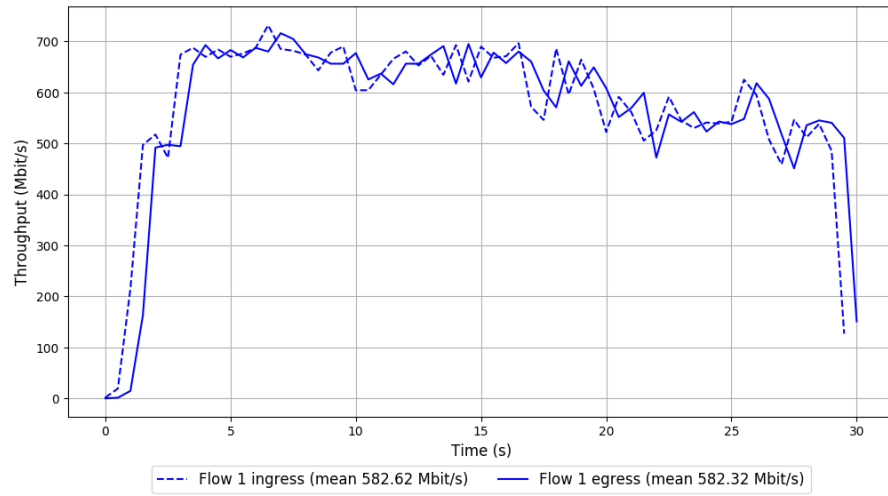


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-12-12 05:49:20
End at: 2019-12-12 05:49:50
Local clock offset: -0.07 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2019-12-12 07:56:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 582.32 Mbit/s
95th percentile per-packet one-way delay: 84.461 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 582.32 Mbit/s
95th percentile per-packet one-way delay: 84.461 ms
Loss rate: 0.04%

Run 5: Report of Muses_DecisionTree — Data Link

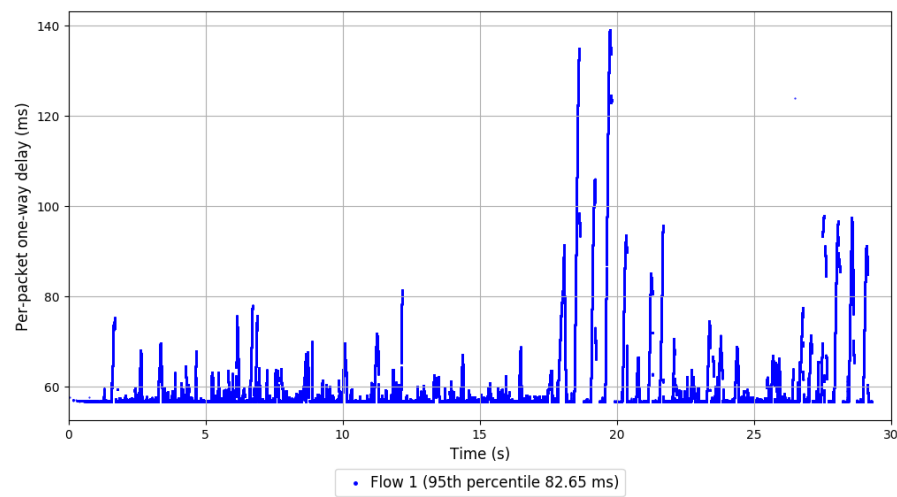
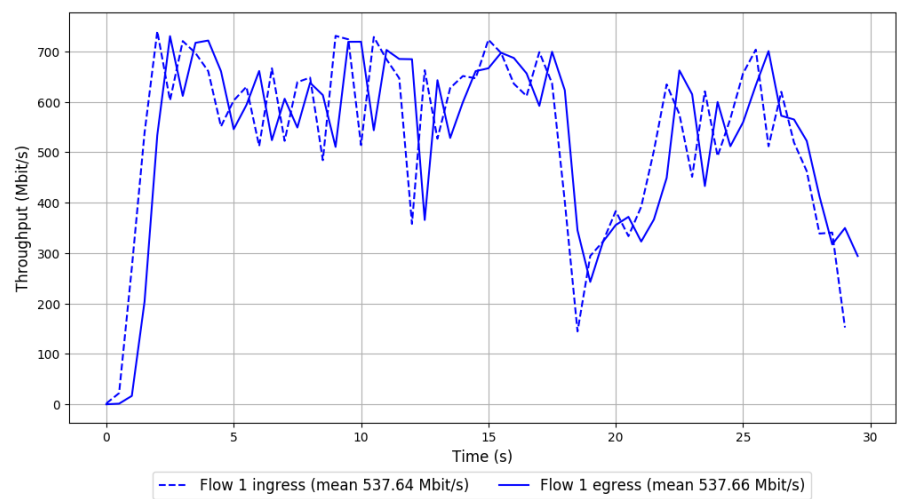



```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-12 03:16:59
End at: 2019-12-12 03:17:29
Local clock offset: 0.104 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-12-12 07:58:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 537.66 Mbit/s
95th percentile per-packet one-way delay: 82.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 537.66 Mbit/s
95th percentile per-packet one-way delay: 82.653 ms
Loss rate: 0.00%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

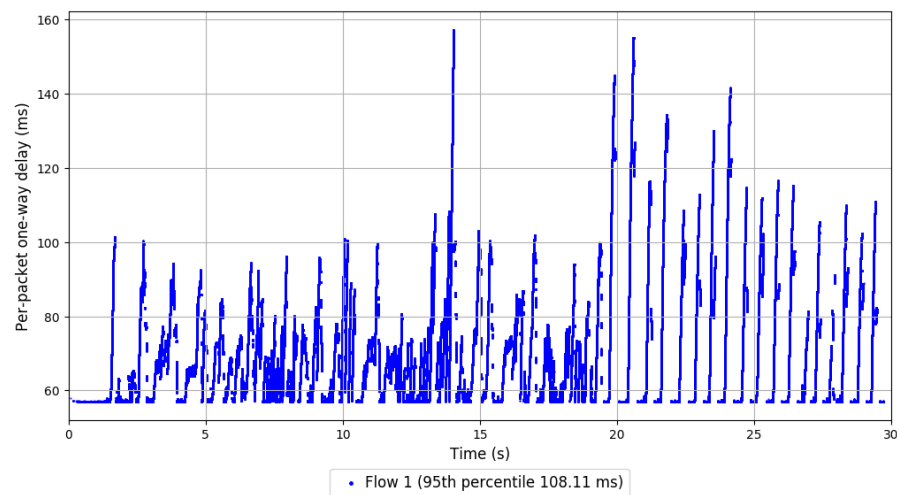
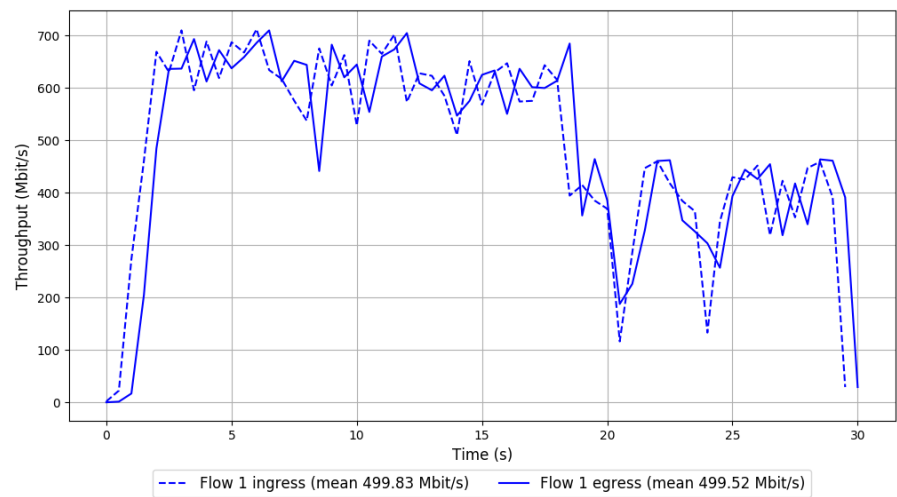


Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-12 03:52:24
End at: 2019-12-12 03:52:54
Local clock offset: 0.247 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2019-12-12 07:59:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 499.52 Mbit/s
95th percentile per-packet one-way delay: 108.114 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 499.52 Mbit/s
95th percentile per-packet one-way delay: 108.114 ms
Loss rate: 0.07%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-12 04:27:48

End at: 2019-12-12 04:28:18

Local clock offset: 0.436 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2019-12-12 08:00:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 544.66 Mbit/s

95th percentile per-packet one-way delay: 79.638 ms

Loss rate: 0.00%

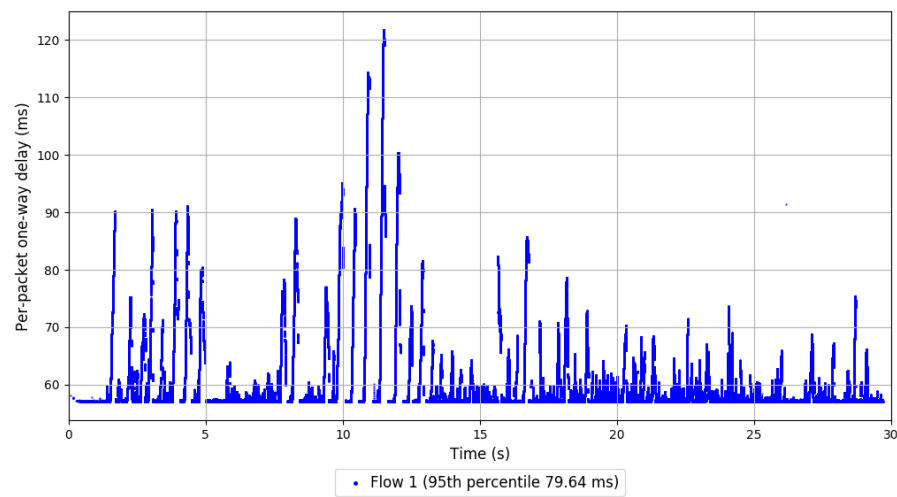
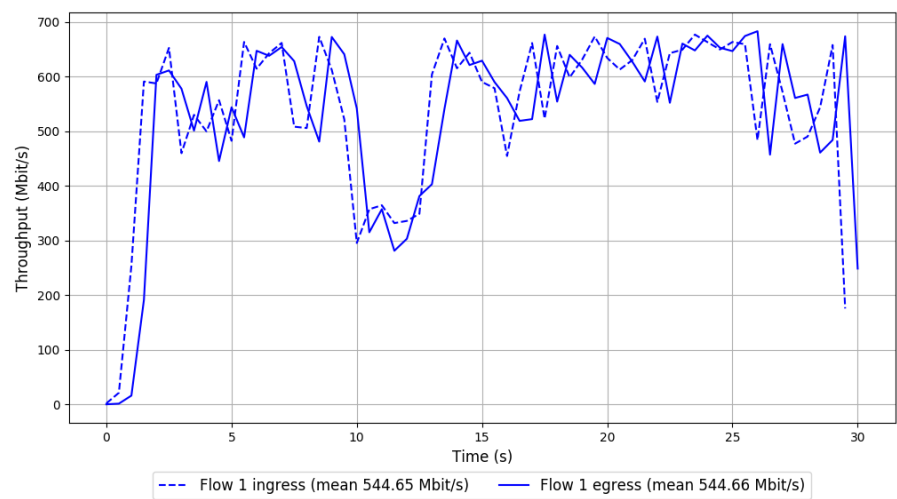
-- Flow 1:

Average throughput: 544.66 Mbit/s

95th percentile per-packet one-way delay: 79.638 ms

Loss rate: 0.00%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-12 05:03:03

End at: 2019-12-12 05:03:33

Local clock offset: 0.167 ms

Remote clock offset: 0.138 ms

Below is generated by plot.py at 2019-12-12 08:00:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 57.252 ms

Loss rate: 0.00%

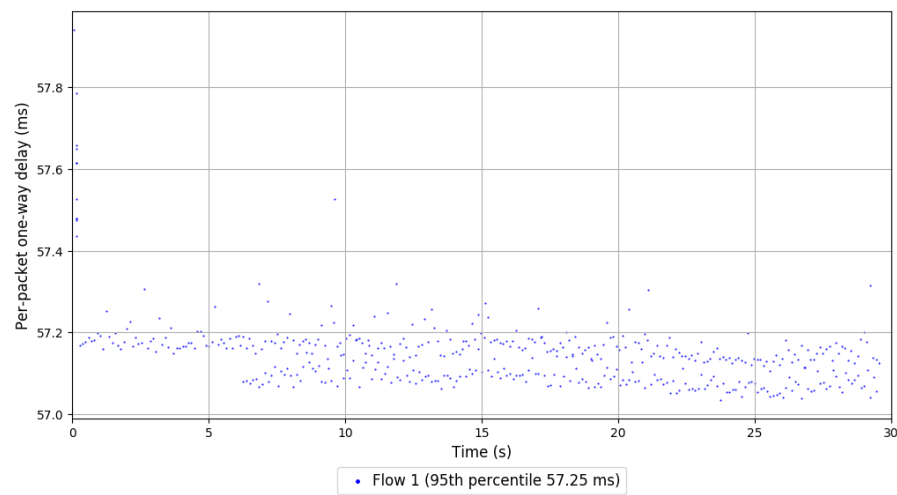
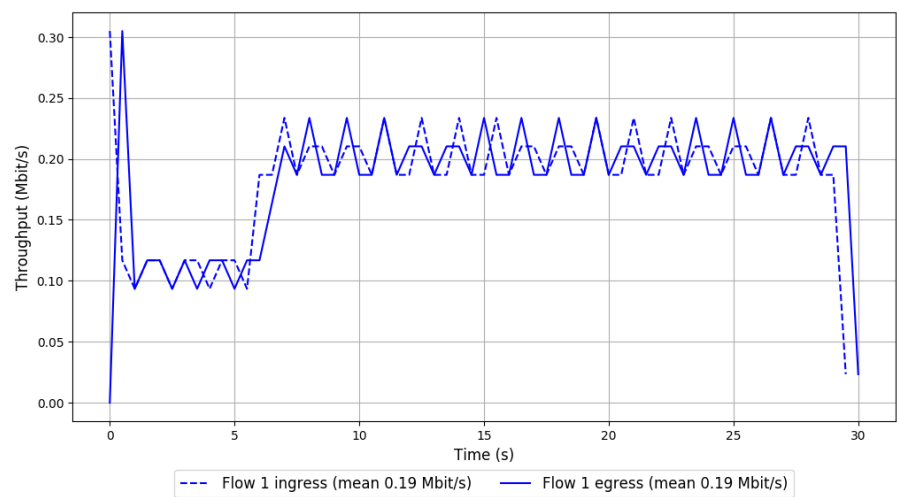
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 57.252 ms

Loss rate: 0.00%

Run 4: Report of Muses_DecisionTreeH0 — Data Link

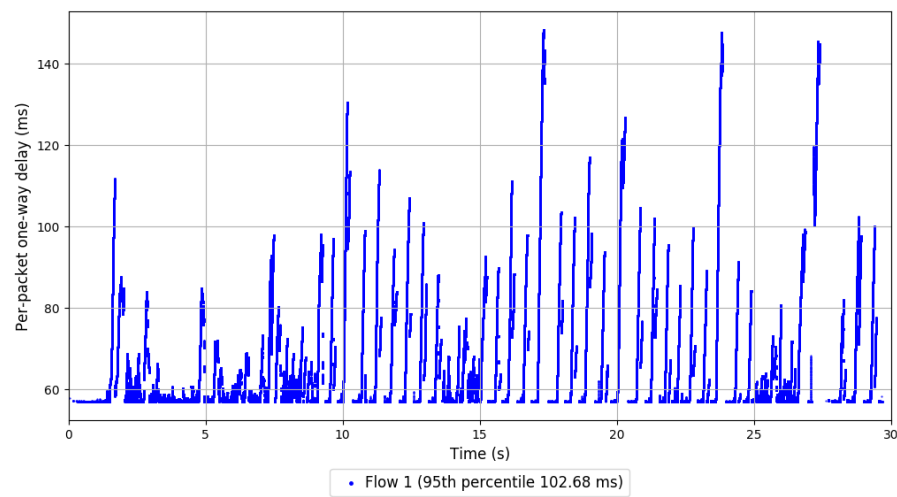
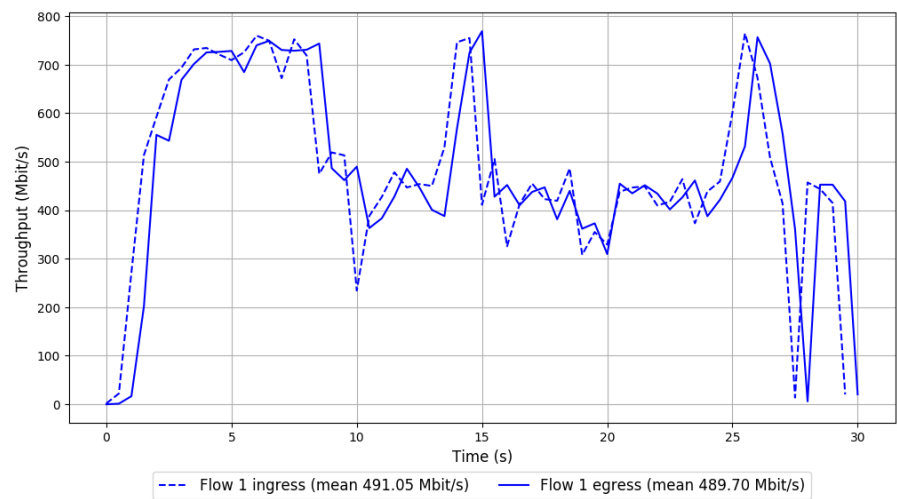


Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-12 05:38:13
End at: 2019-12-12 05:38:43
Local clock offset: -0.127 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2019-12-12 08:01:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 489.70 Mbit/s
95th percentile per-packet one-way delay: 102.683 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 489.70 Mbit/s
95th percentile per-packet one-way delay: 102.683 ms
Loss rate: 0.28%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

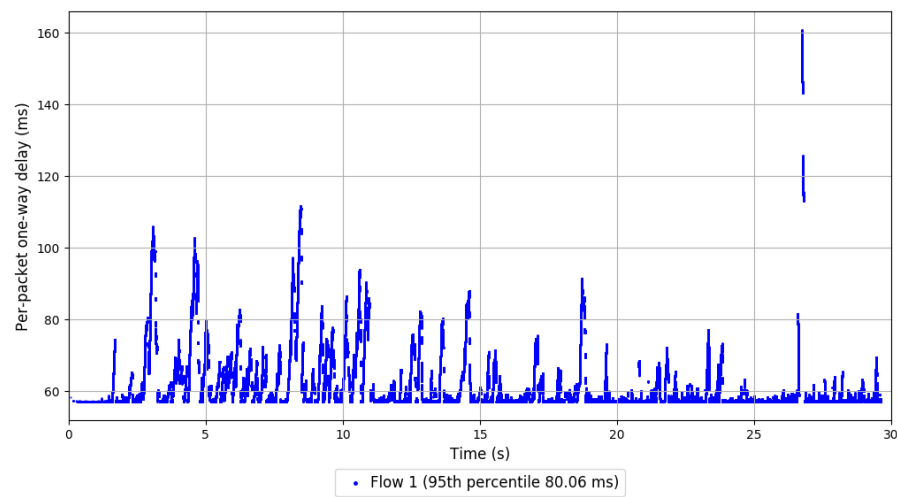
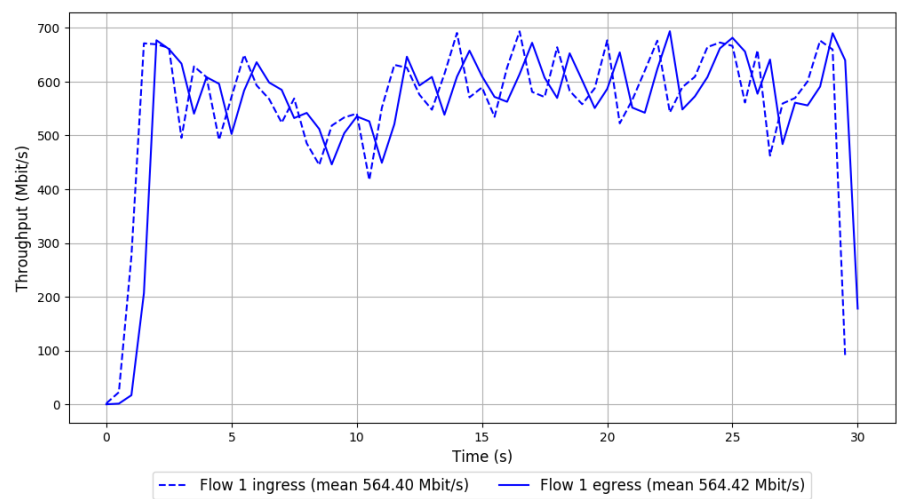


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-12 03:23:21
End at: 2019-12-12 03:23:51
Local clock offset: 0.053 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-12-12 08:05:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 564.42 Mbit/s
95th percentile per-packet one-way delay: 80.057 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 564.42 Mbit/s
95th percentile per-packet one-way delay: 80.057 ms
Loss rate: 0.00%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

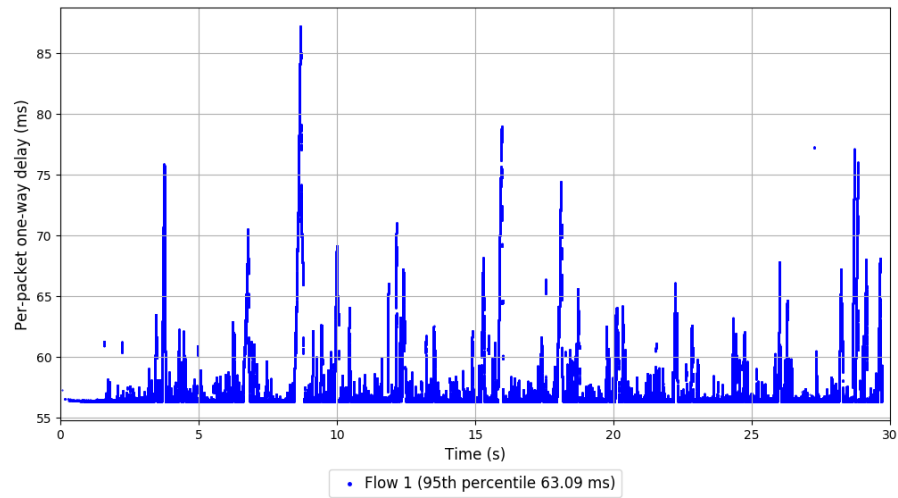
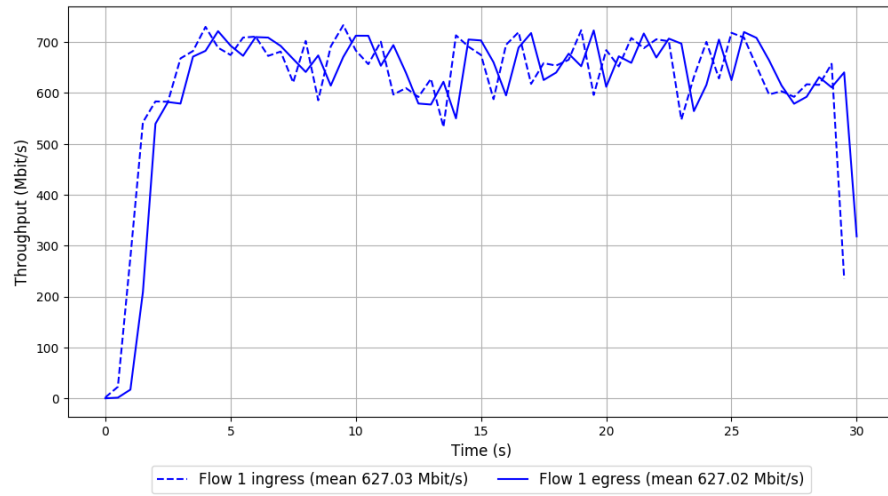


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-12 03:58:36
End at: 2019-12-12 03:59:06
Local clock offset: 0.619 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2019-12-12 08:07:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 627.02 Mbit/s
95th percentile per-packet one-way delay: 63.089 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 627.02 Mbit/s
95th percentile per-packet one-way delay: 63.089 ms
Loss rate: 0.00%

Run 2: Report of Muses_DecisionTreeR0 — Data Link

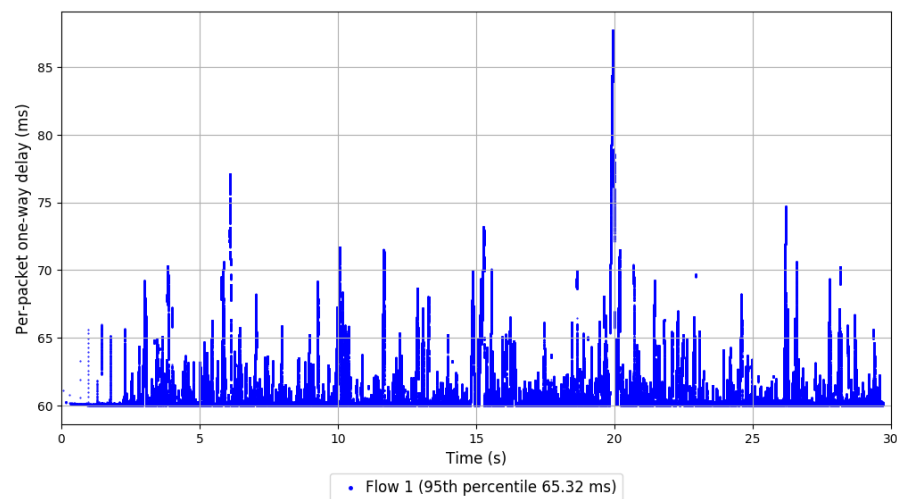
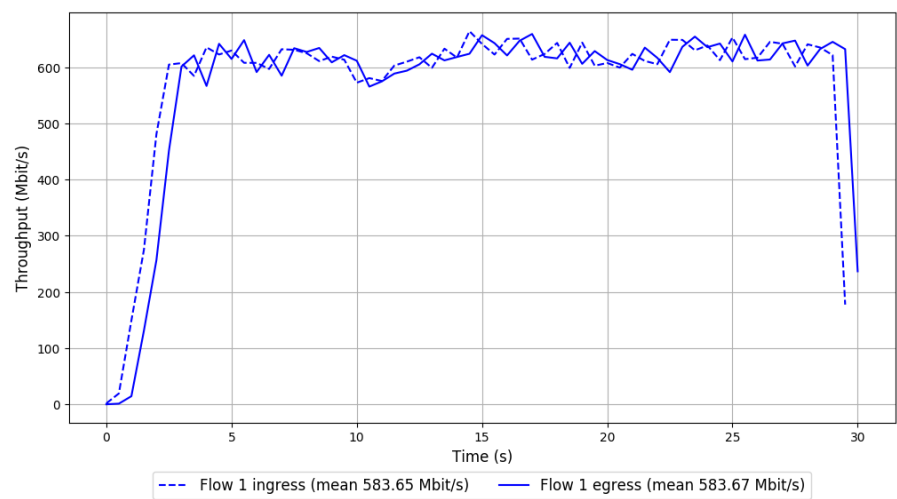


Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-12 04:34:06
End at: 2019-12-12 04:34:36
Local clock offset: 0.415 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2019-12-12 08:07:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 583.67 Mbit/s
95th percentile per-packet one-way delay: 65.320 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 583.67 Mbit/s
95th percentile per-packet one-way delay: 65.320 ms
Loss rate: 0.01%

Run 3: Report of Muses_DecisionTreeR0 — Data Link

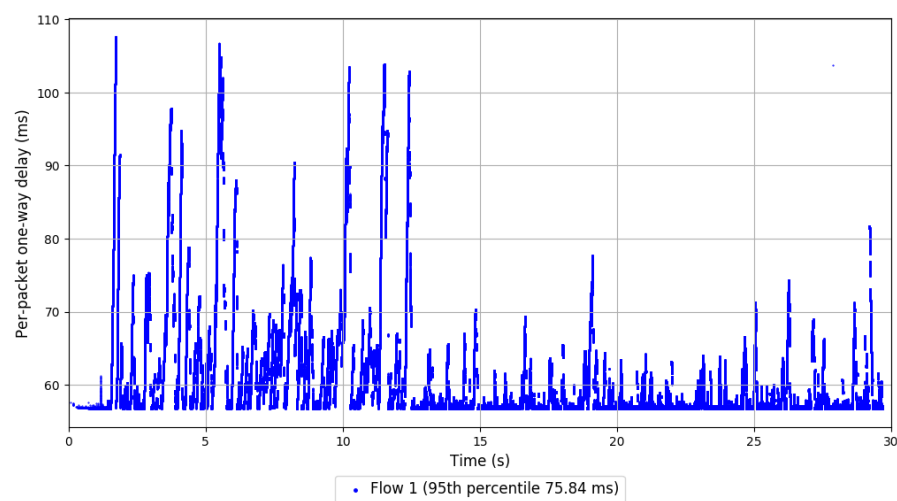
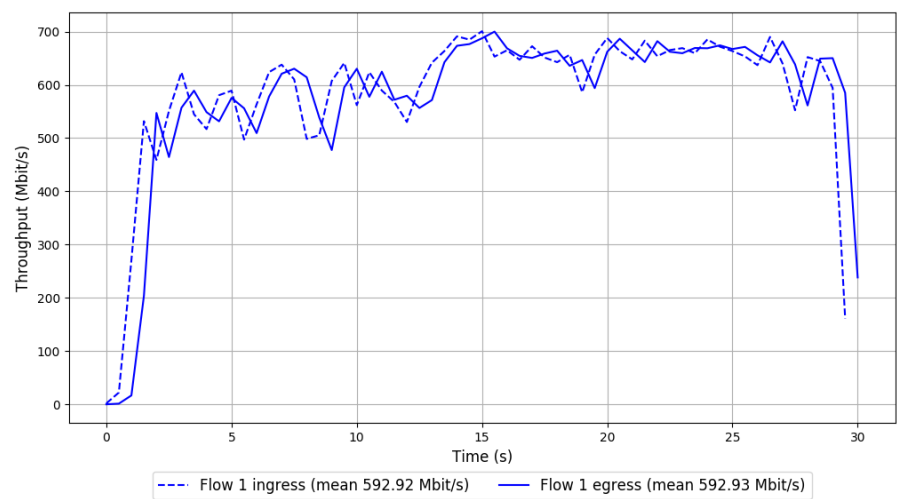


Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-12 05:08:56
End at: 2019-12-12 05:09:26
Local clock offset: 0.022 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2019-12-12 08:08:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 592.93 Mbit/s
95th percentile per-packet one-way delay: 75.843 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 592.93 Mbit/s
95th percentile per-packet one-way delay: 75.843 ms
Loss rate: 0.00%

Run 4: Report of Muses_DecisionTreeR0 — Data Link

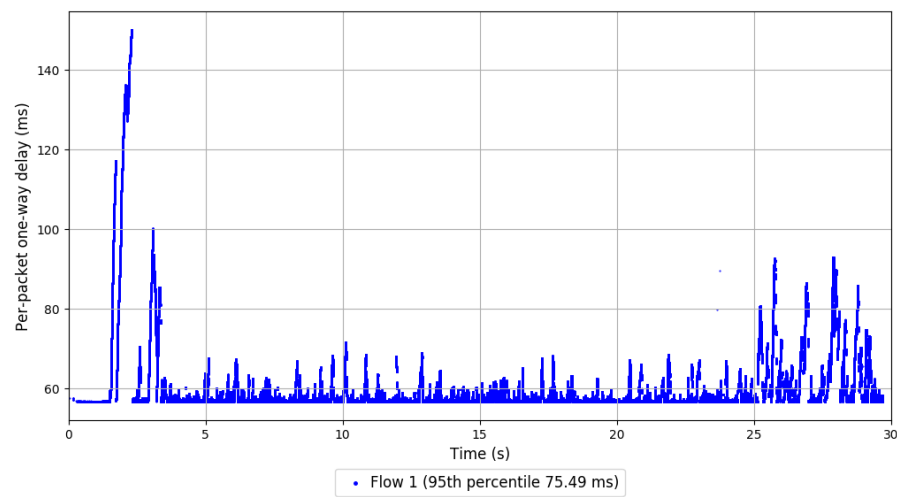
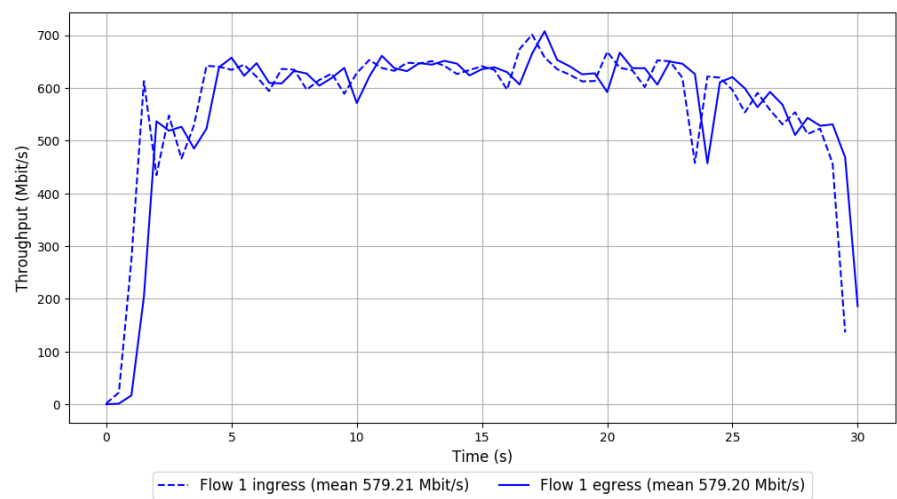


Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-12 05:44:31
End at: 2019-12-12 05:45:01
Local clock offset: -0.109 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2019-12-12 08:09:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 579.20 Mbit/s
95th percentile per-packet one-way delay: 75.488 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 579.20 Mbit/s
95th percentile per-packet one-way delay: 75.488 ms
Loss rate: 0.00%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-12-12 03:12:42

End at: 2019-12-12 03:13:12

Local clock offset: 0.086 ms

Remote clock offset: -0.007 ms

Below is generated by plot.py at 2019-12-12 08:17:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 448.48 Mbit/s

95th percentile per-packet one-way delay: 191.320 ms

Loss rate: 5.77%

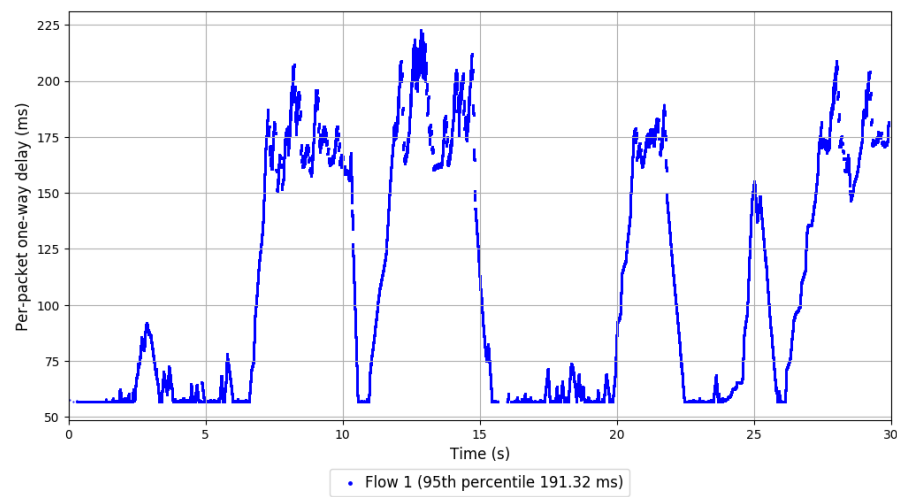
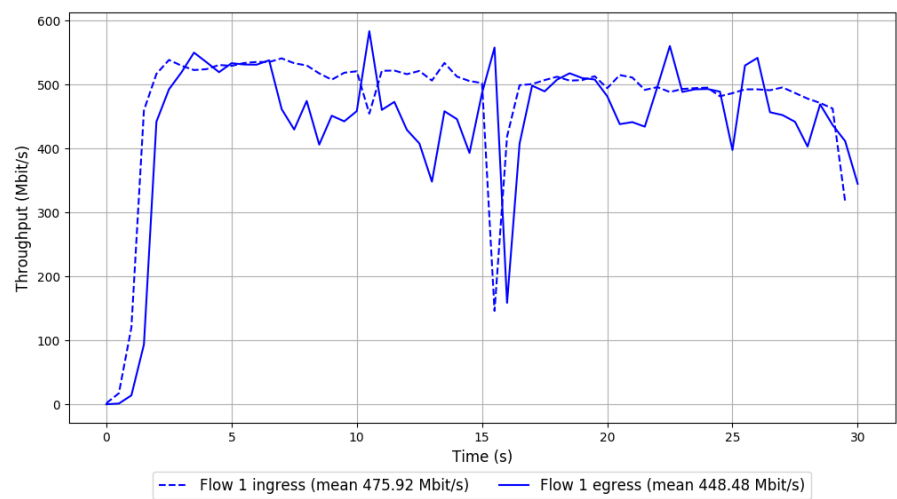
-- Flow 1:

Average throughput: 448.48 Mbit/s

95th percentile per-packet one-way delay: 191.320 ms

Loss rate: 5.77%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-12-12 03:48:12

End at: 2019-12-12 03:48:42

Local clock offset: 0.201 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2019-12-12 08:17:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.68 Mbit/s

95th percentile per-packet one-way delay: 176.261 ms

Loss rate: 3.63%

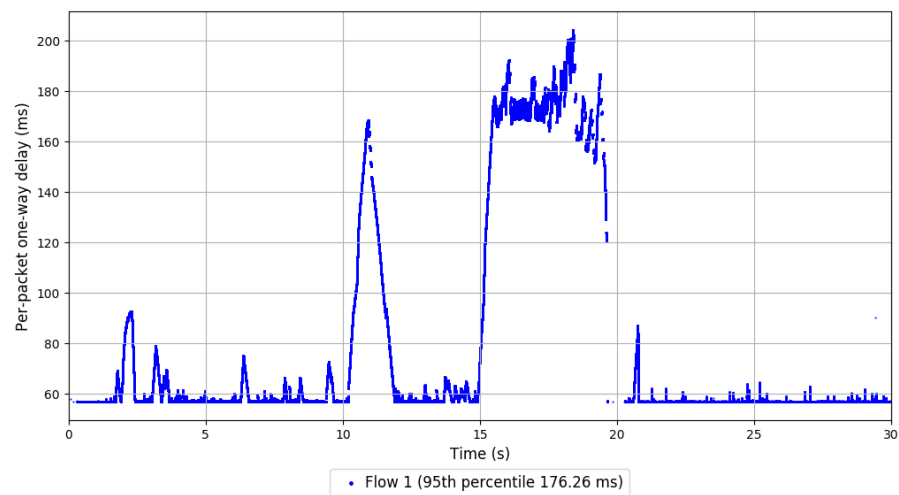
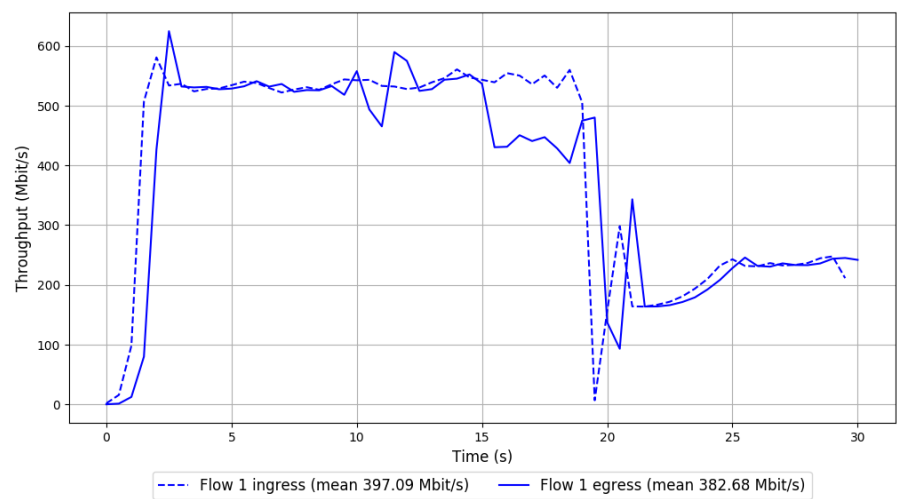
-- Flow 1:

Average throughput: 382.68 Mbit/s

95th percentile per-packet one-way delay: 176.261 ms

Loss rate: 3.63%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-12-12 04:23:32

End at: 2019-12-12 04:24:02

Local clock offset: 0.38 ms

Remote clock offset: -0.214 ms

Below is generated by plot.py at 2019-12-12 08:19:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 430.02 Mbit/s

95th percentile per-packet one-way delay: 174.865 ms

Loss rate: 2.50%

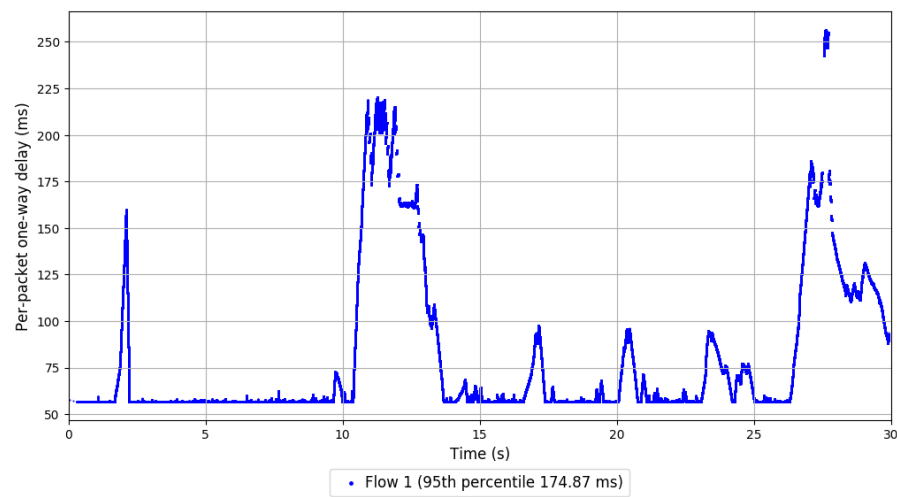
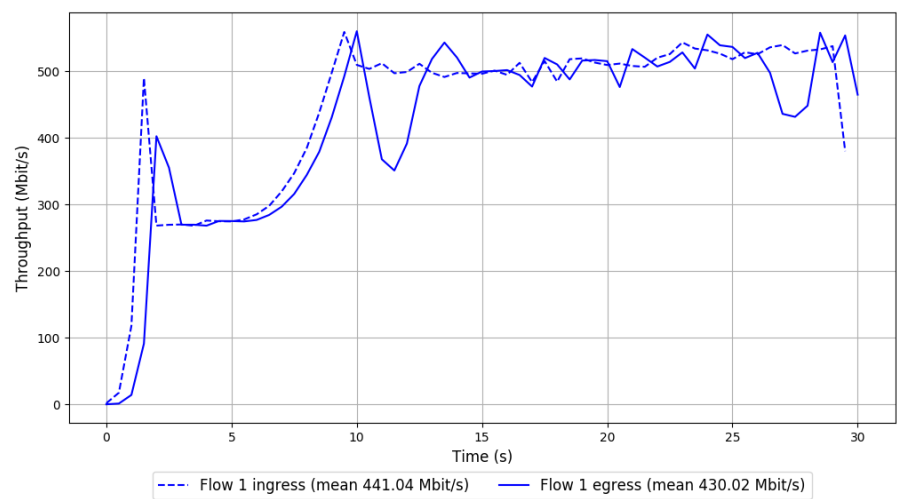
-- Flow 1:

Average throughput: 430.02 Mbit/s

95th percentile per-packet one-way delay: 174.865 ms

Loss rate: 2.50%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-12-12 04:58:50

End at: 2019-12-12 04:59:20

Local clock offset: 0.407 ms

Remote clock offset: -0.133 ms

Below is generated by plot.py at 2019-12-12 08:21:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.76 Mbit/s

95th percentile per-packet one-way delay: 193.718 ms

Loss rate: 7.66%

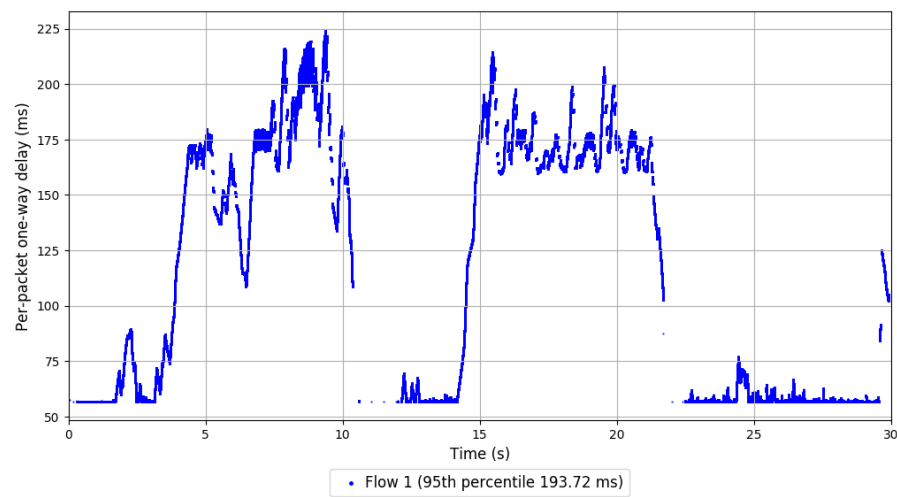
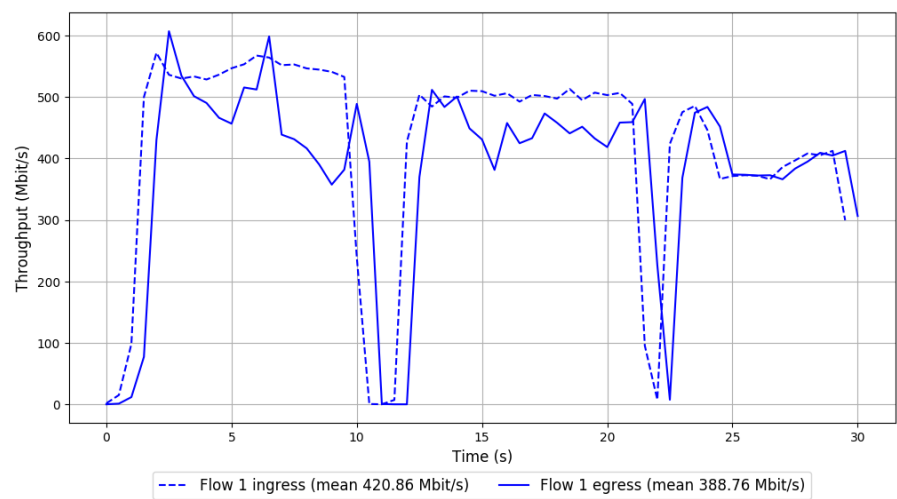
-- Flow 1:

Average throughput: 388.76 Mbit/s

95th percentile per-packet one-way delay: 193.718 ms

Loss rate: 7.66%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-12-12 05:34:01

End at: 2019-12-12 05:34:31

Local clock offset: -0.123 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2019-12-12 08:23:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.45 Mbit/s

95th percentile per-packet one-way delay: 189.257 ms

Loss rate: 5.84%

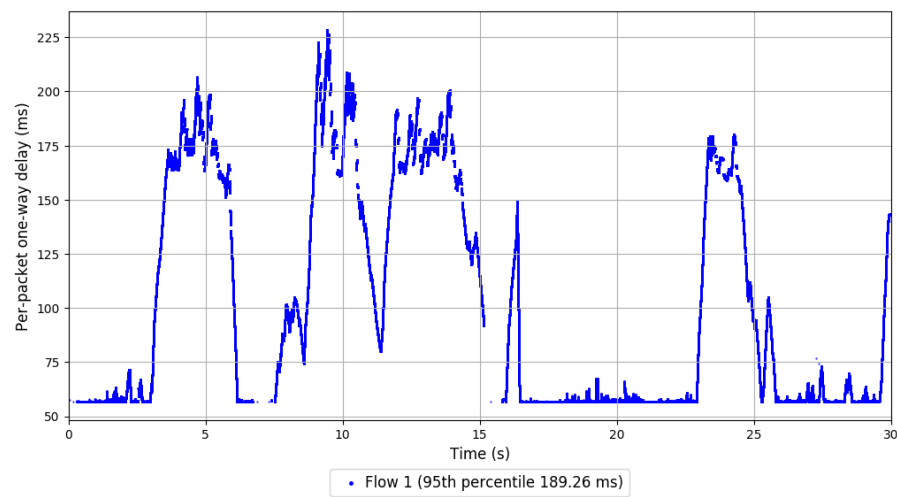
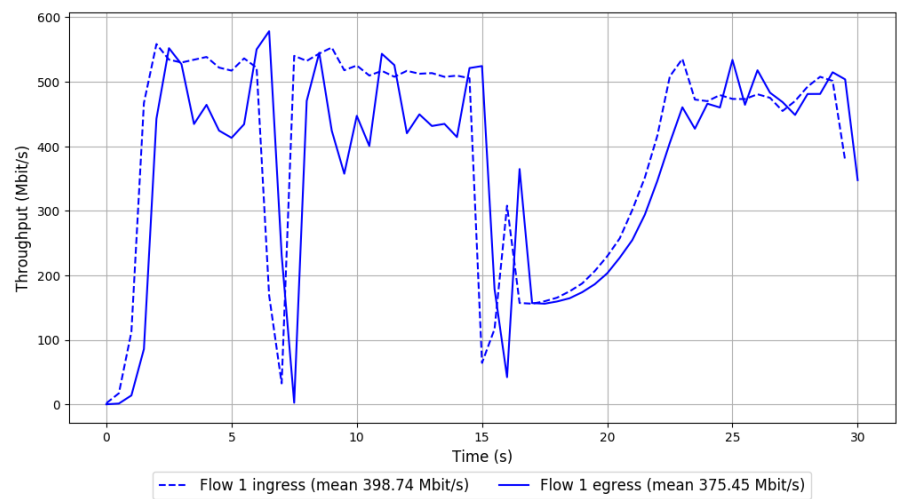
-- Flow 1:

Average throughput: 375.45 Mbit/s

95th percentile per-packet one-way delay: 189.257 ms

Loss rate: 5.84%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-12-12 03:10:01

End at: 2019-12-12 03:10:31

Local clock offset: 0.096 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2019-12-12 08:23:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 289.58 Mbit/s

95th percentile per-packet one-way delay: 173.128 ms

Loss rate: 5.74%

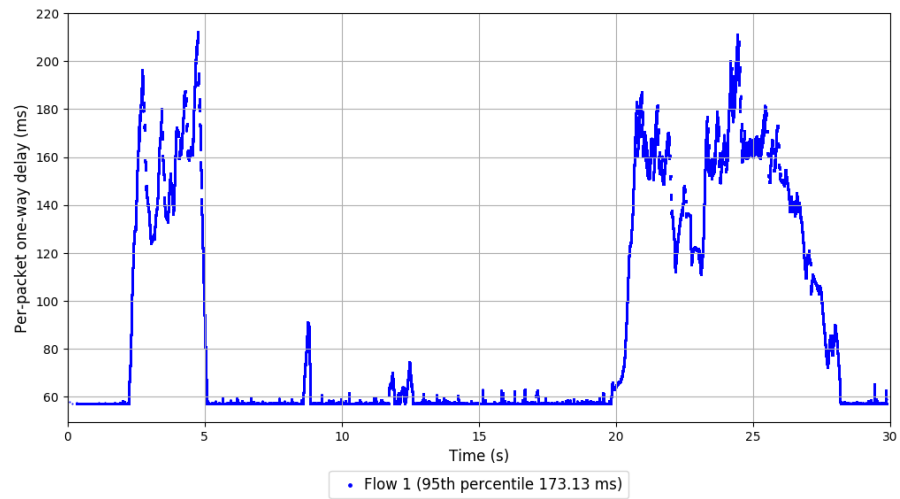
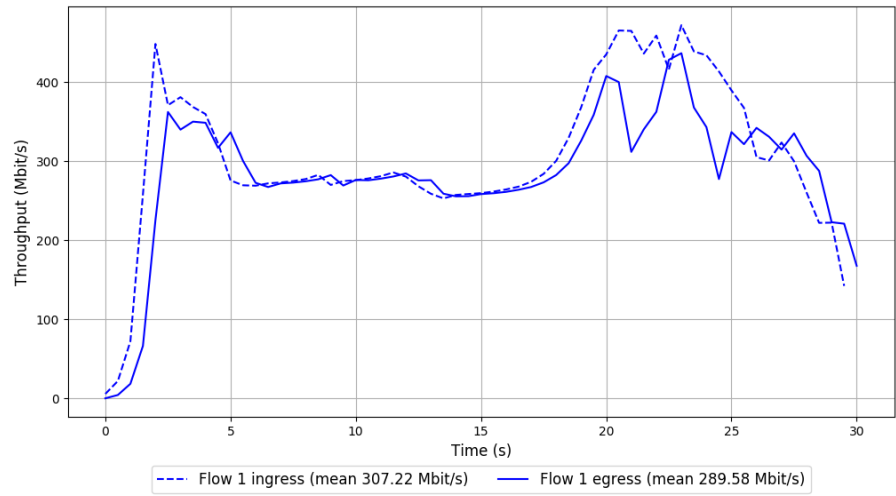
-- Flow 1:

Average throughput: 289.58 Mbit/s

95th percentile per-packet one-way delay: 173.128 ms

Loss rate: 5.74%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-12-12 03:45:27

End at: 2019-12-12 03:45:57

Local clock offset: 0.224 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2019-12-12 08:23:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.88 Mbit/s

95th percentile per-packet one-way delay: 108.820 ms

Loss rate: 0.10%

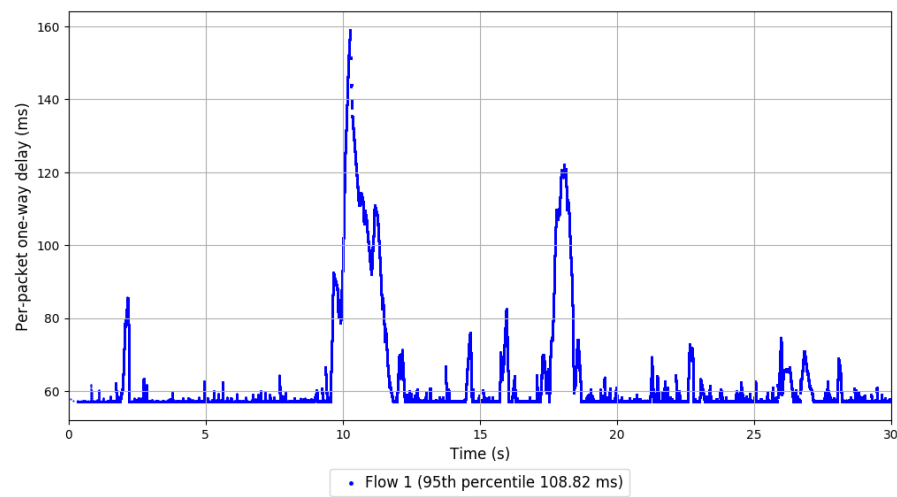
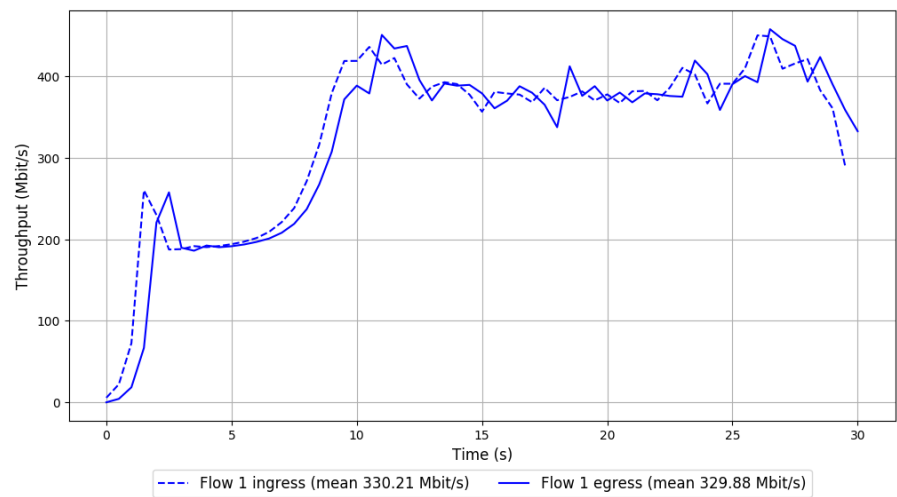
-- Flow 1:

Average throughput: 329.88 Mbit/s

95th percentile per-packet one-way delay: 108.820 ms

Loss rate: 0.10%

Run 2: Report of PCC-Expr — Data Link

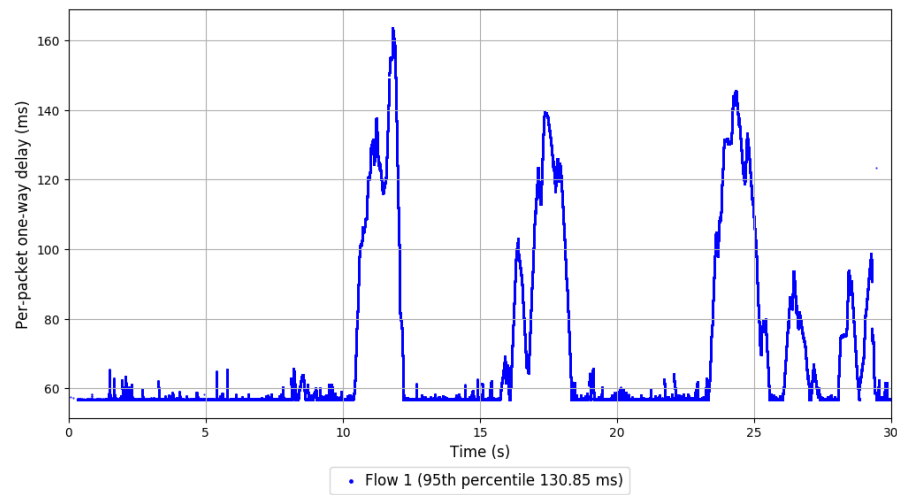
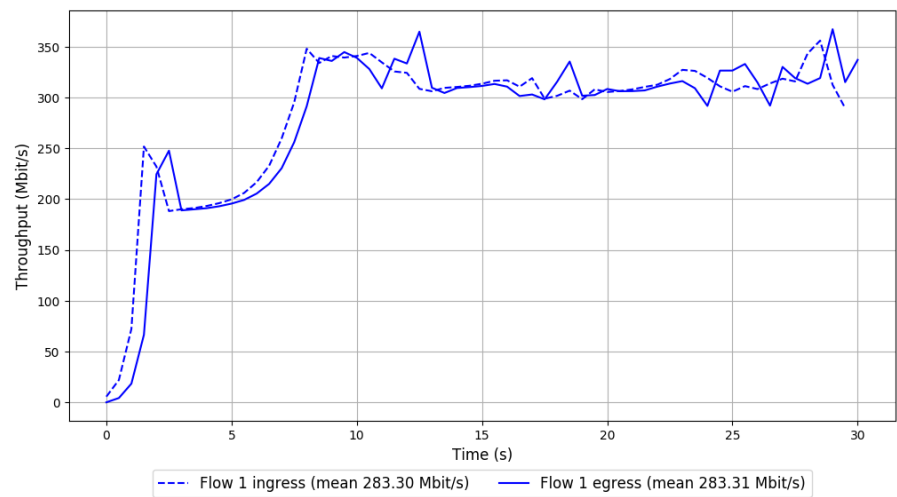


Run 3: Statistics of PCC-Expr

Start at: 2019-12-12 04:20:51
End at: 2019-12-12 04:21:21
Local clock offset: 0.386 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2019-12-12 08:23:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 283.31 Mbit/s
95th percentile per-packet one-way delay: 130.847 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 283.31 Mbit/s
95th percentile per-packet one-way delay: 130.847 ms
Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link

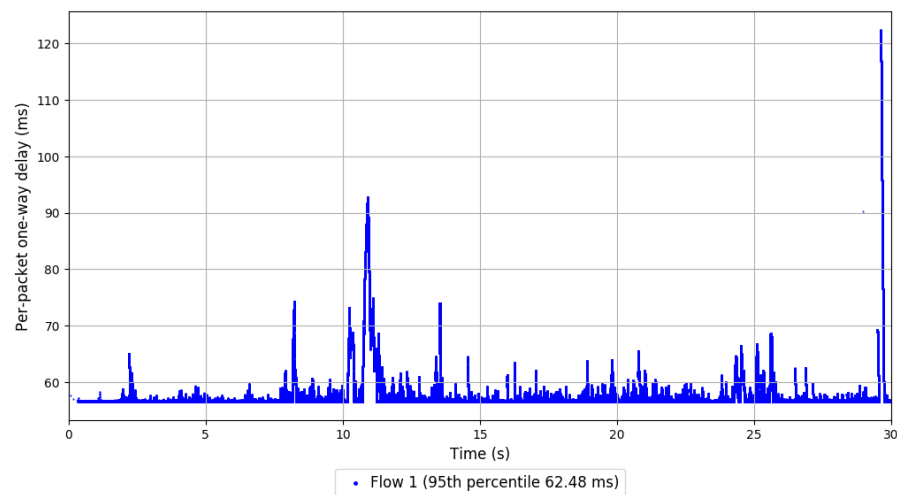
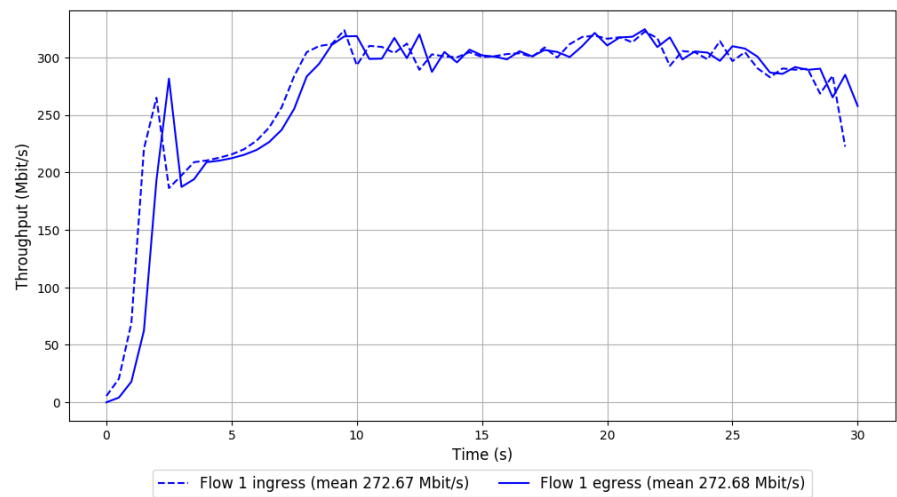


Run 4: Statistics of PCC-Expr

Start at: 2019-12-12 04:56:11
End at: 2019-12-12 04:56:41
Local clock offset: 0.527 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2019-12-12 08:26:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 272.68 Mbit/s
95th percentile per-packet one-way delay: 62.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 272.68 Mbit/s
95th percentile per-packet one-way delay: 62.483 ms
Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link

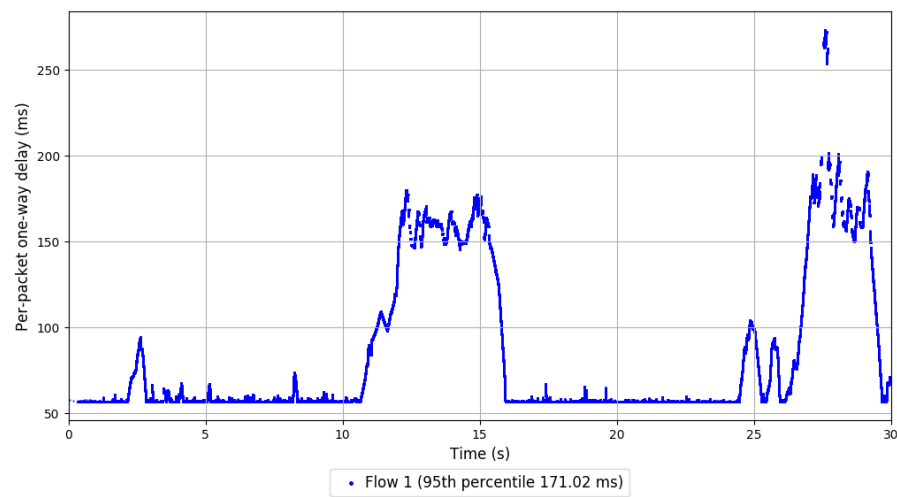
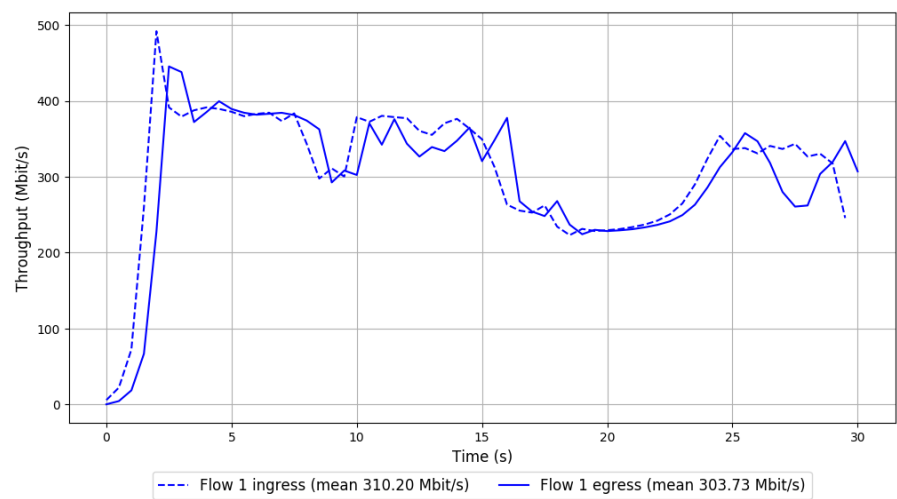


Run 5: Statistics of PCC-Expr

Start at: 2019-12-12 05:31:18
End at: 2019-12-12 05:31:49
Local clock offset: -0.158 ms
Remote clock offset: -0.235 ms

Below is generated by plot.py at 2019-12-12 08:29:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 303.73 Mbit/s
95th percentile per-packet one-way delay: 171.023 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 303.73 Mbit/s
95th percentile per-packet one-way delay: 171.023 ms
Loss rate: 2.13%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

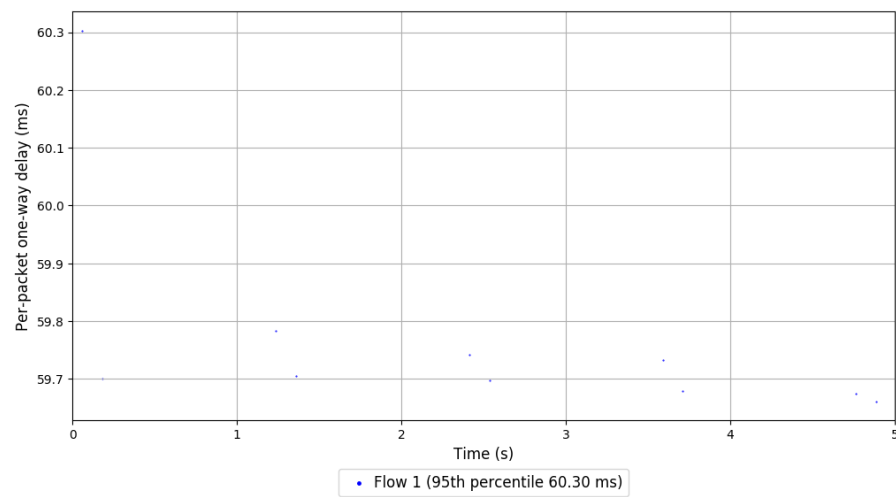
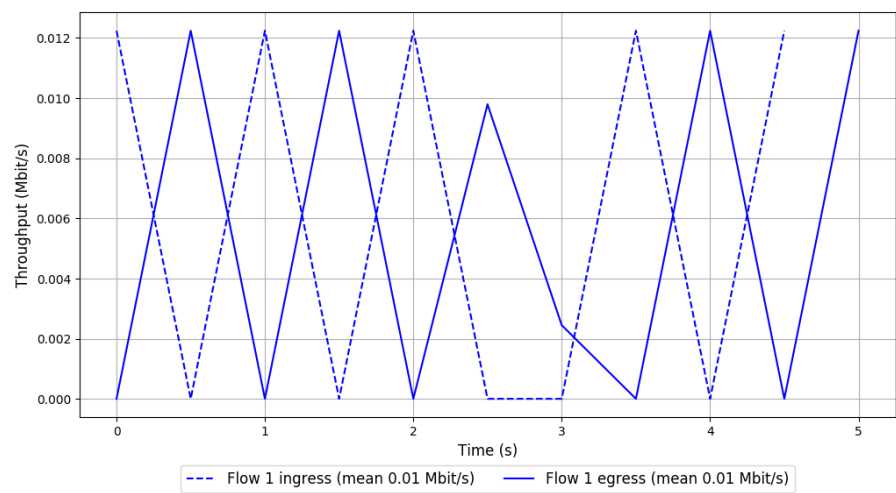
Start at: 2019-12-12 03:07:25

End at: 2019-12-12 03:07:55

Local clock offset: 0.412 ms

Remote clock offset: -0.131 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-12-12 03:42:48

End at: 2019-12-12 03:43:18

Local clock offset: 0.328 ms

Remote clock offset: -0.037 ms

Below is generated by plot.py at 2019-12-12 08:29:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.54 Mbit/s

95th percentile per-packet one-way delay: 56.853 ms

Loss rate: 0.00%

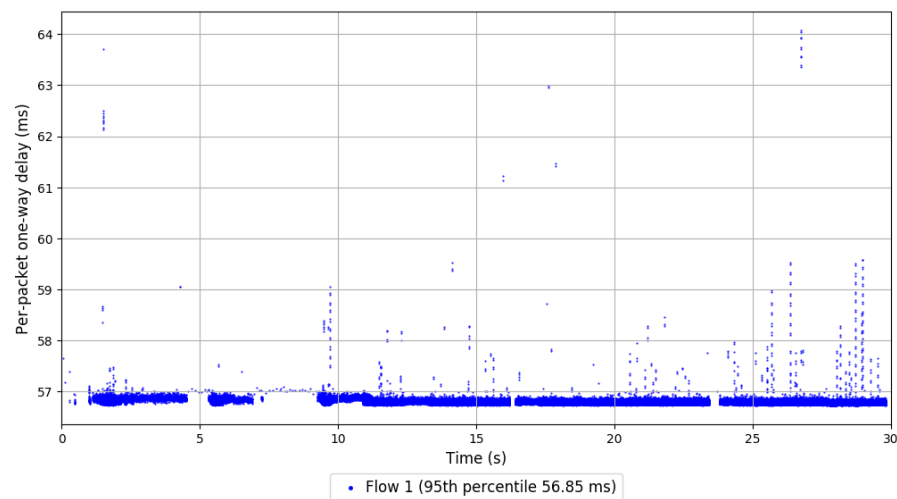
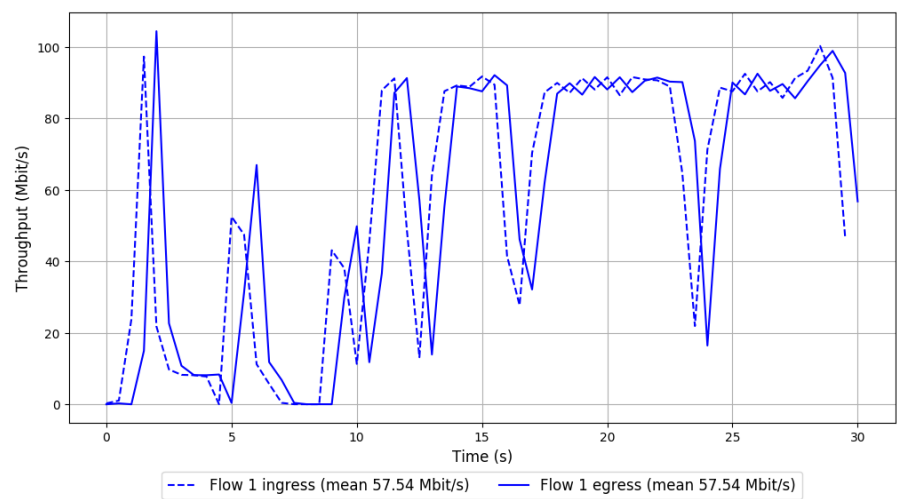
-- Flow 1:

Average throughput: 57.54 Mbit/s

95th percentile per-packet one-way delay: 56.853 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

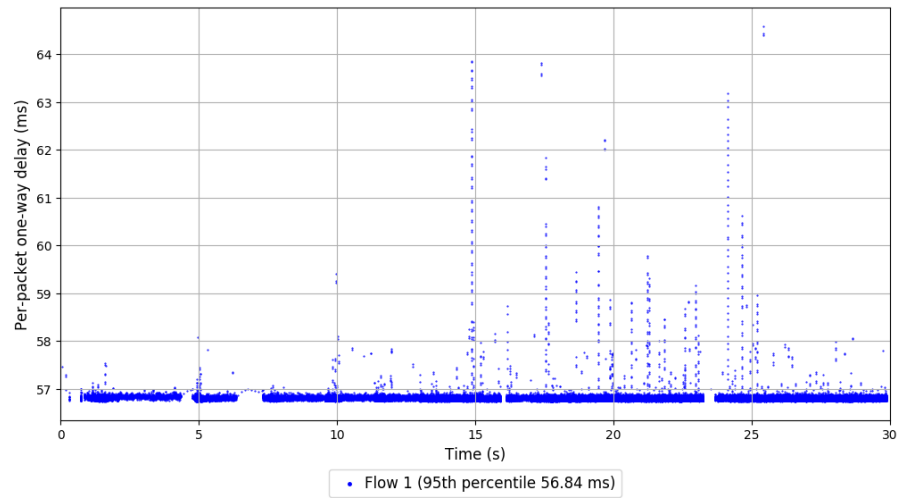
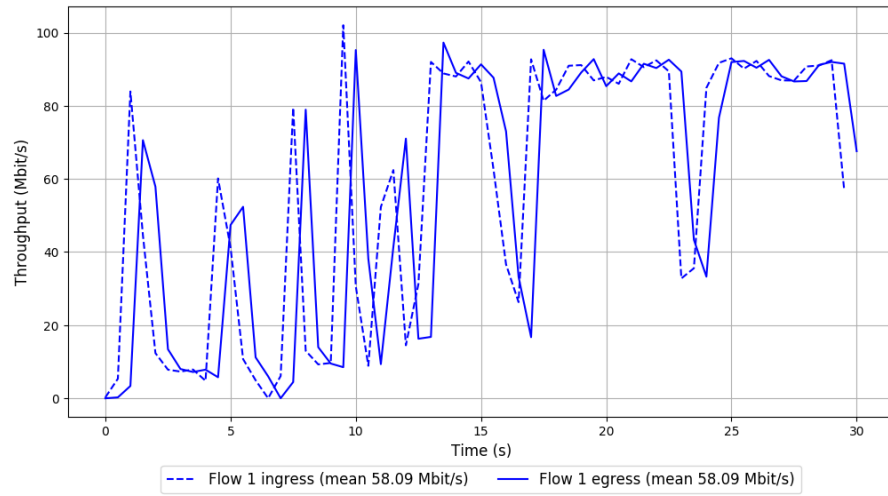


Run 3: Statistics of QUIC Cubic

Start at: 2019-12-12 04:18:11
End at: 2019-12-12 04:18:41
Local clock offset: 0.309 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-12-12 08:29:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.09 Mbit/s
95th percentile per-packet one-way delay: 56.843 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.09 Mbit/s
95th percentile per-packet one-way delay: 56.843 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

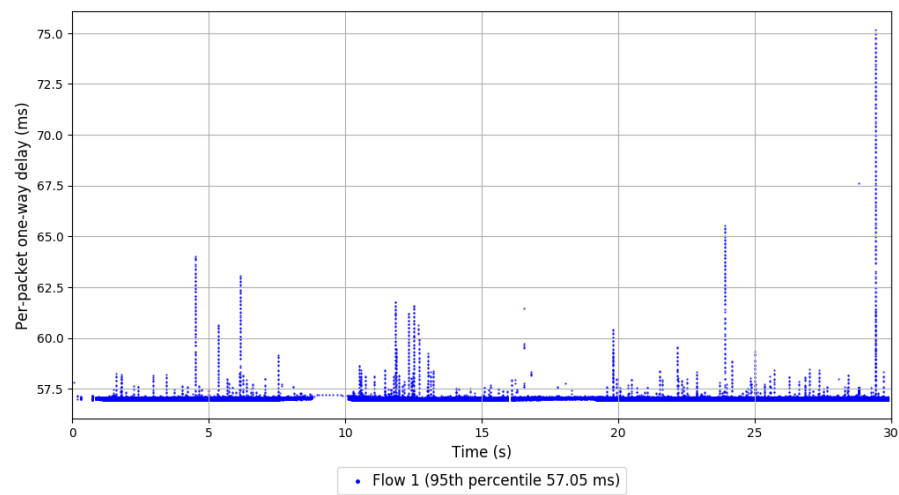
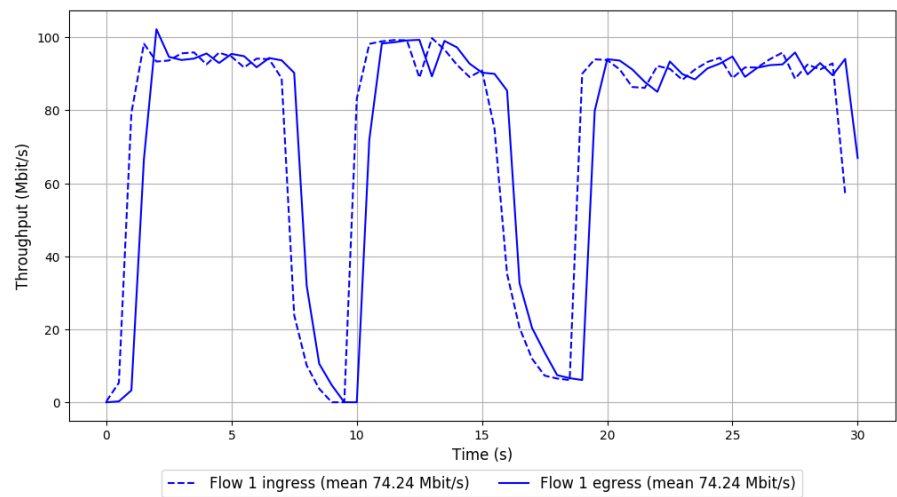


Run 4: Statistics of QUIC Cubic

Start at: 2019-12-12 04:53:31
End at: 2019-12-12 04:54:01
Local clock offset: 0.63 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2019-12-12 08:29:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.24 Mbit/s
95th percentile per-packet one-way delay: 57.046 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.24 Mbit/s
95th percentile per-packet one-way delay: 57.046 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-12-12 05:28:39

End at: 2019-12-12 05:29:09

Local clock offset: -0.163 ms

Remote clock offset: -0.061 ms

Below is generated by plot.py at 2019-12-12 08:29:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.42 Mbit/s

95th percentile per-packet one-way delay: 56.981 ms

Loss rate: 0.00%

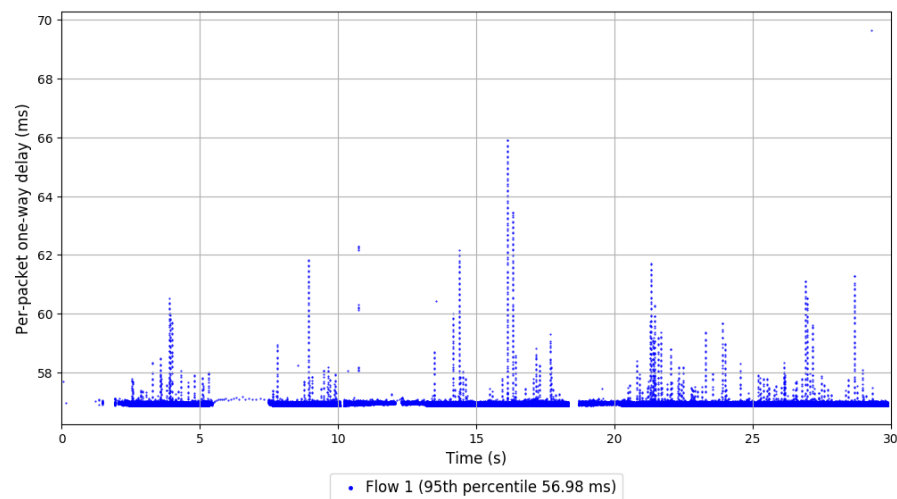
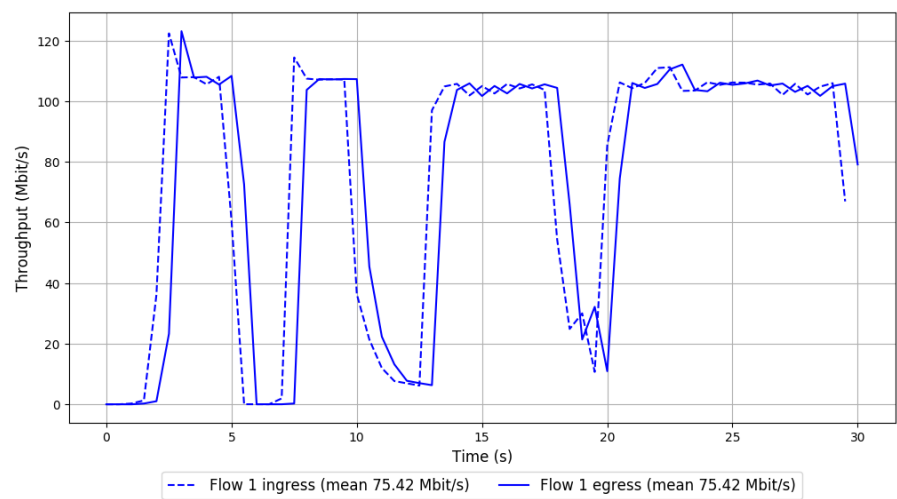
-- Flow 1:

Average throughput: 75.42 Mbit/s

95th percentile per-packet one-way delay: 56.981 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

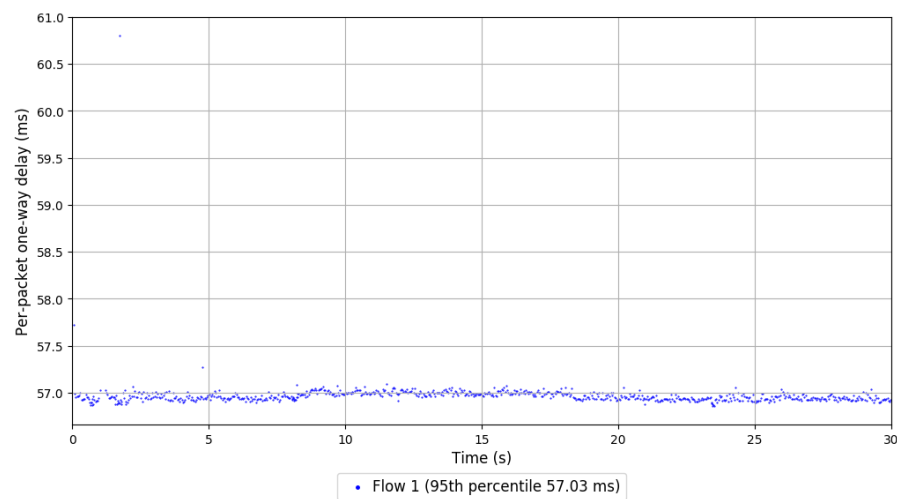
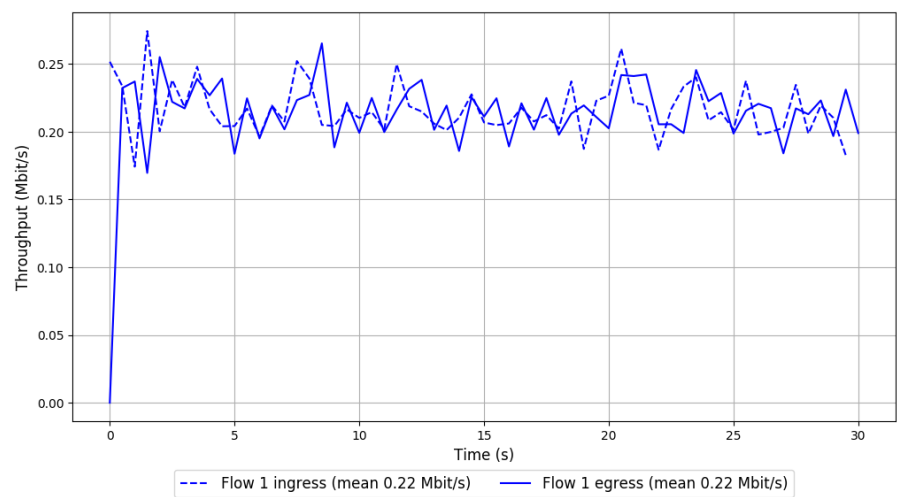


```
Run 1: Statistics of SCReAM

Start at: 2019-12-12 03:11:34
End at: 2019-12-12 03:12:04
Local clock offset: 0.065 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.033 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

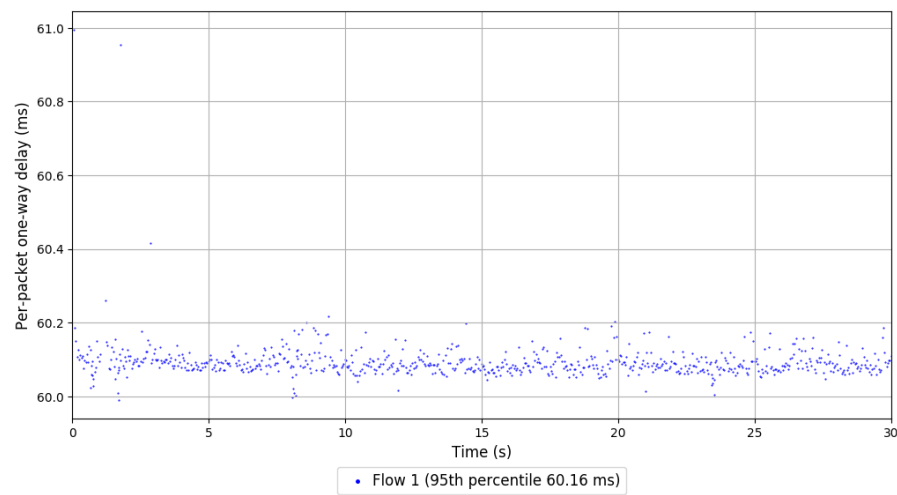
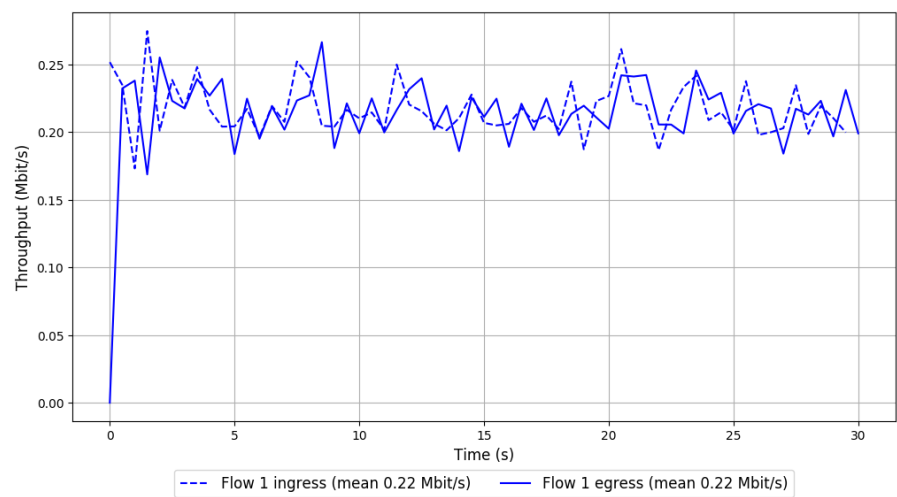


Run 2: Statistics of SCReAM

Start at: 2019-12-12 03:47:04
End at: 2019-12-12 03:47:34
Local clock offset: 0.217 ms
Remote clock offset: -0.158 ms

Below is generated by plot.py at 2019-12-12 08:29:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.155 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.155 ms
Loss rate: 0.13%

Run 2: Report of SReAM — Data Link

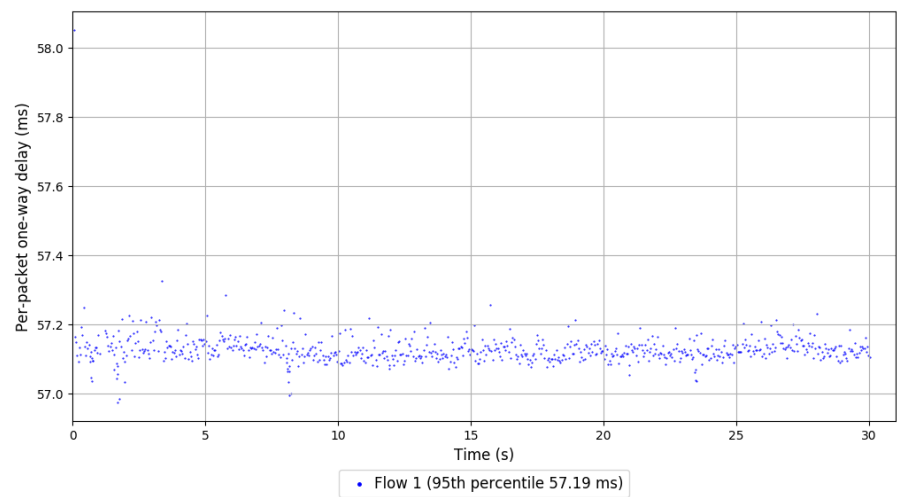
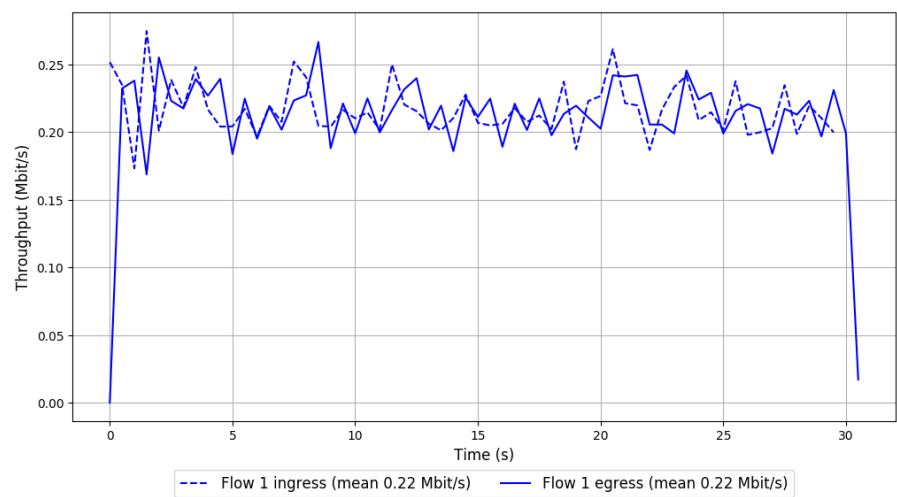


Run 3: Statistics of SCReAM

Start at: 2019-12-12 04:22:24
End at: 2019-12-12 04:22:54
Local clock offset: 0.364 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2019-12-12 08:29:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.187 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.187 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

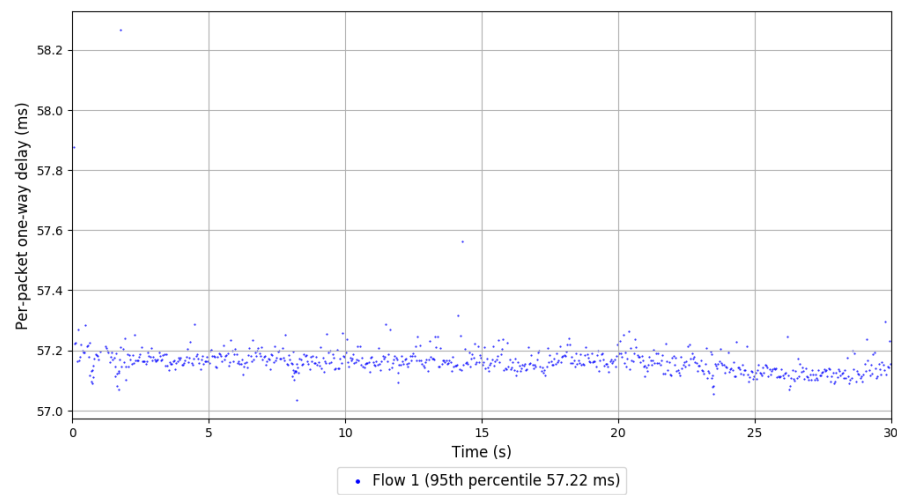
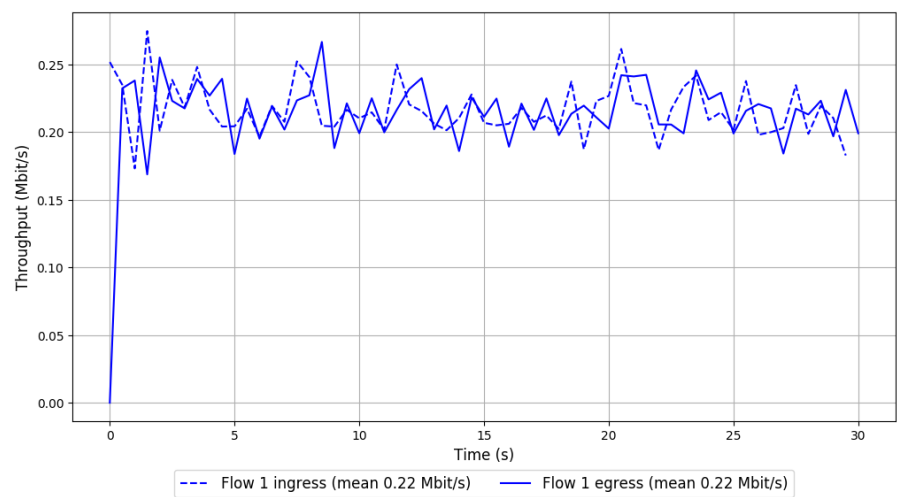


Run 4: Statistics of SCReAM

Start at: 2019-12-12 04:57:42
End at: 2019-12-12 04:58:12
Local clock offset: 0.435 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2019-12-12 08:29:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.222 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.222 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

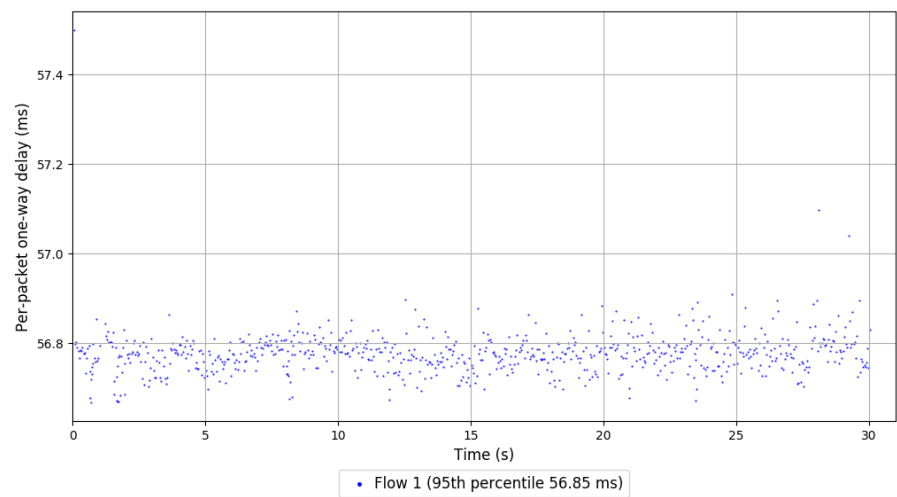
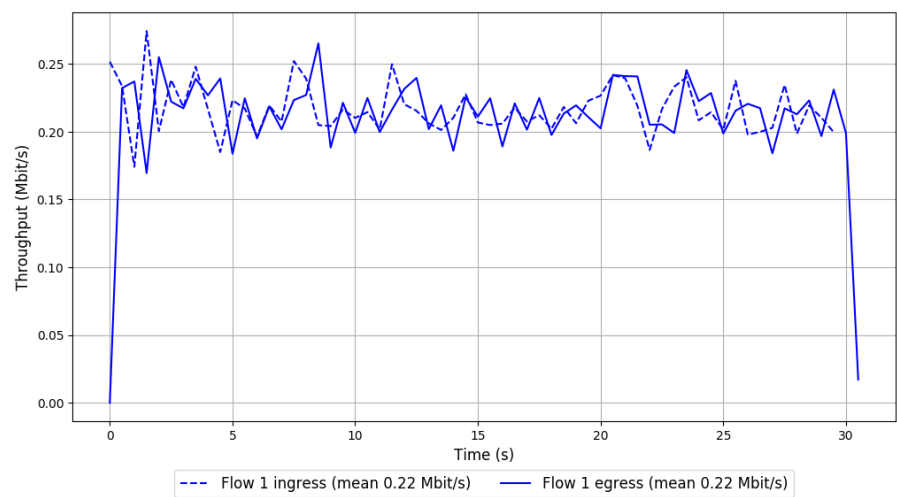


Run 5: Statistics of SCReAM

Start at: 2019-12-12 05:32:53
End at: 2019-12-12 05:33:23
Local clock offset: -0.091 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2019-12-12 08:29:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.846 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.846 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

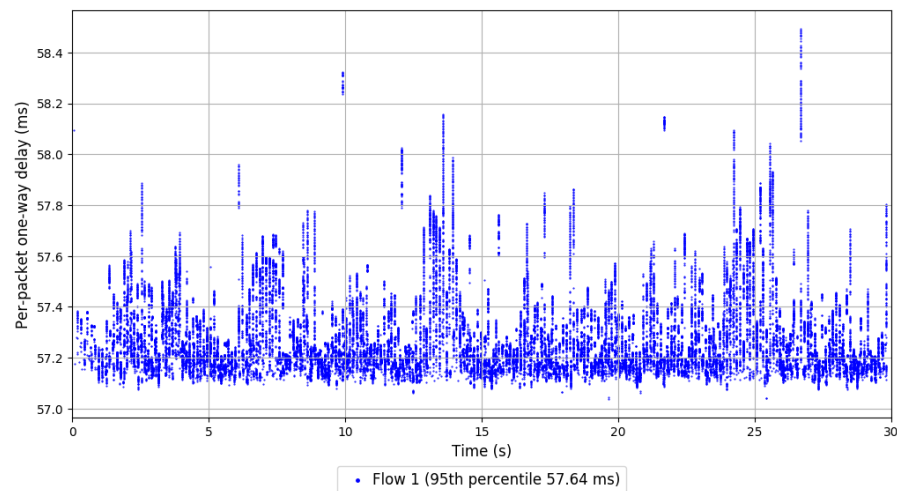
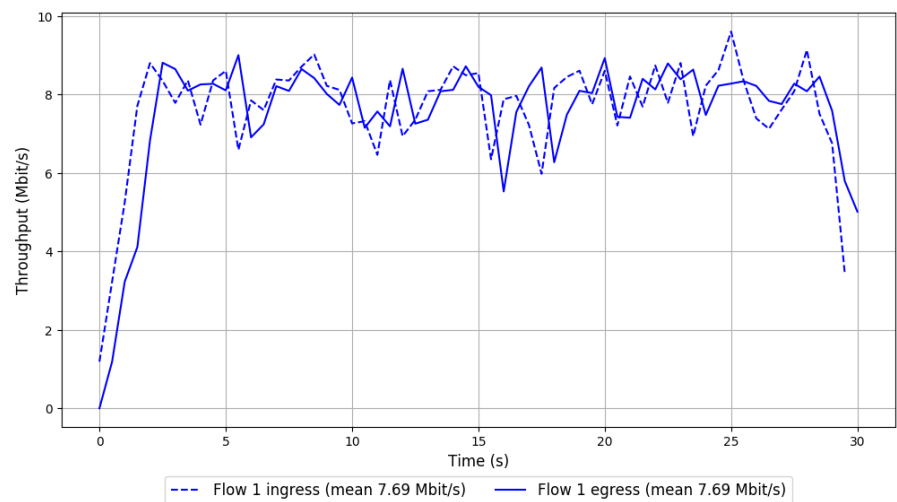


Run 1: Statistics of Sprout

Start at: 2019-12-12 03:31:30
End at: 2019-12-12 03:32:00
Local clock offset: 0.119 ms
Remote clock offset: -0.173 ms

Below is generated by plot.py at 2019-12-12 08:29:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.69 Mbit/s
95th percentile per-packet one-way delay: 57.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.69 Mbit/s
95th percentile per-packet one-way delay: 57.636 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

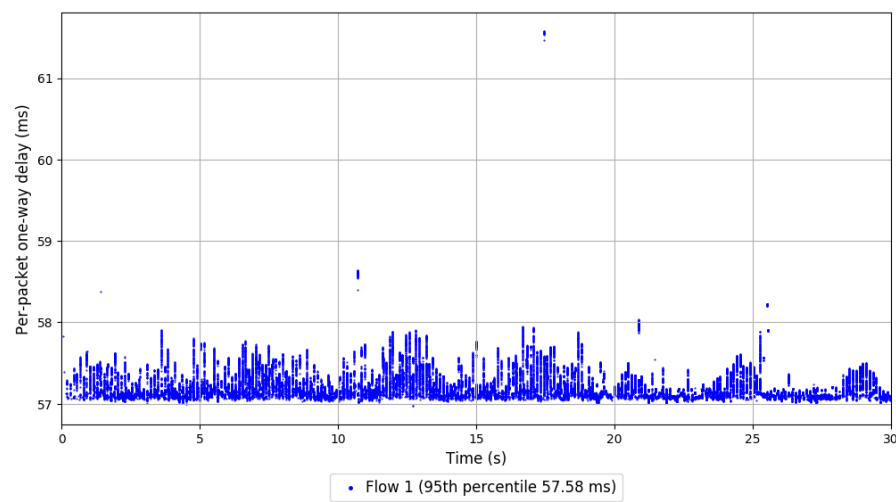
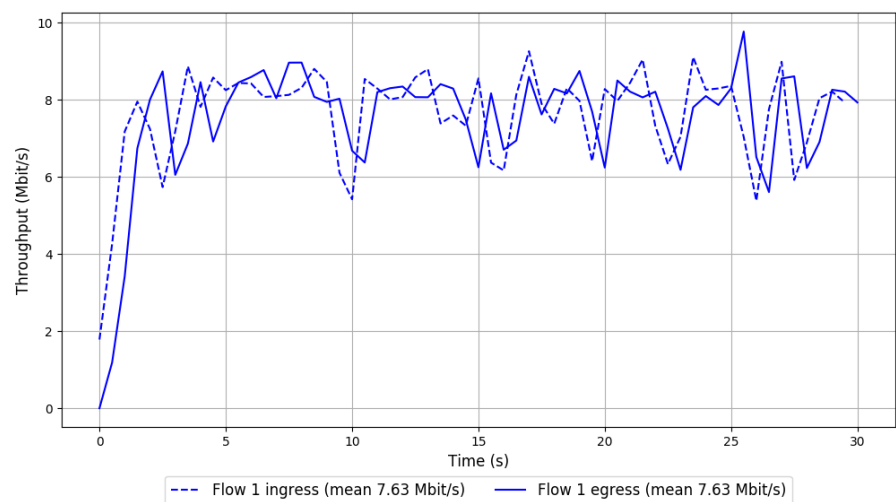


Run 2: Statistics of Sprout

Start at: 2019-12-12 04:06:41
End at: 2019-12-12 04:07:11
Local clock offset: 0.271 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2019-12-12 08:29:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 57.577 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 57.577 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-12-12 04:42:05

End at: 2019-12-12 04:42:35

Local clock offset: 0.516 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2019-12-12 08:29:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 57.405 ms

Loss rate: 0.00%

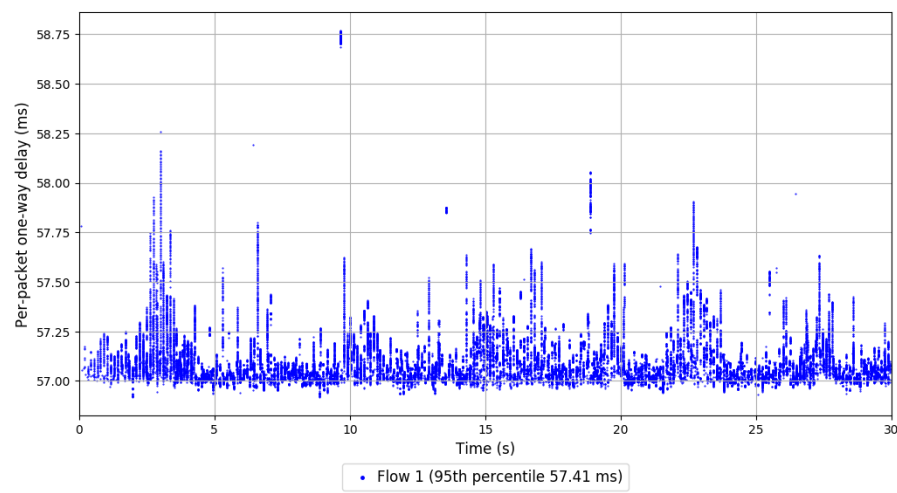
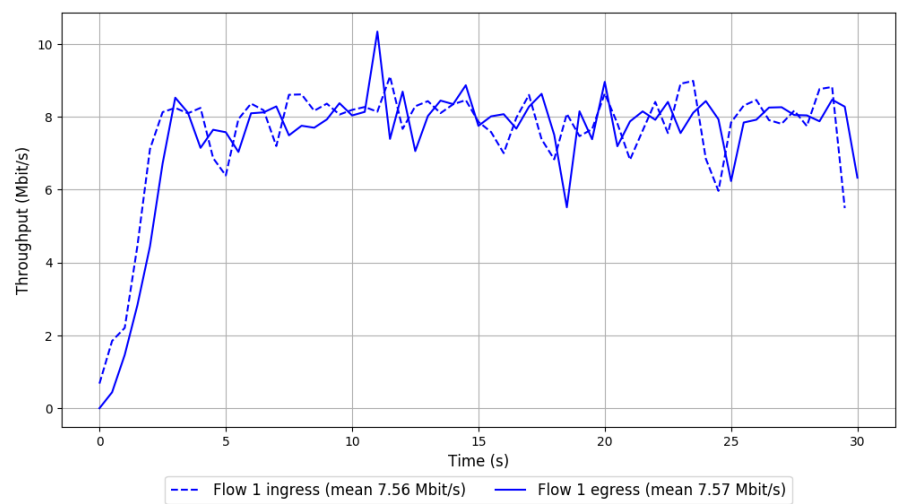
-- Flow 1:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 57.405 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-12-12 05:17:06

End at: 2019-12-12 05:17:36

Local clock offset: -0.112 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2019-12-12 08:29:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 57.511 ms

Loss rate: 0.00%

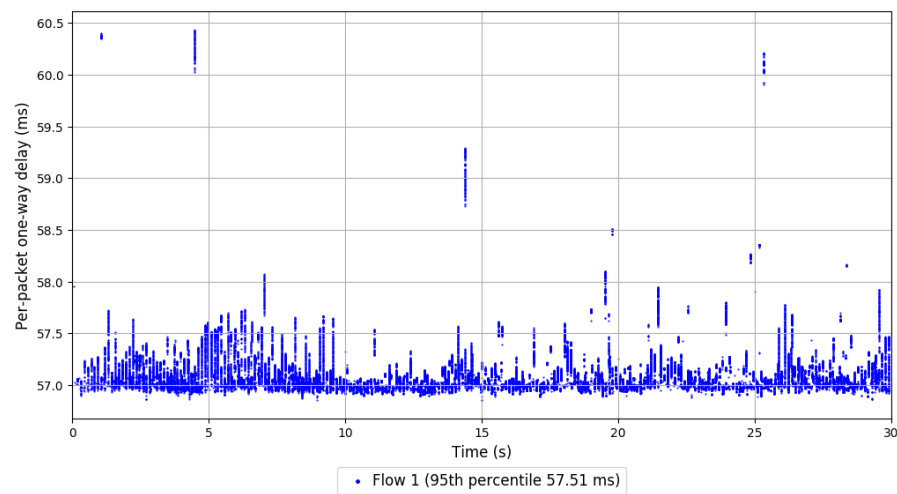
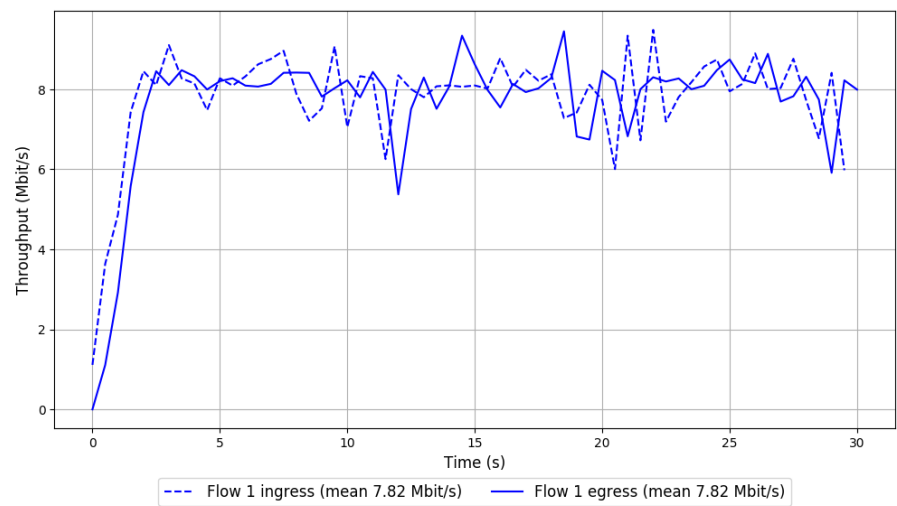
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 57.511 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

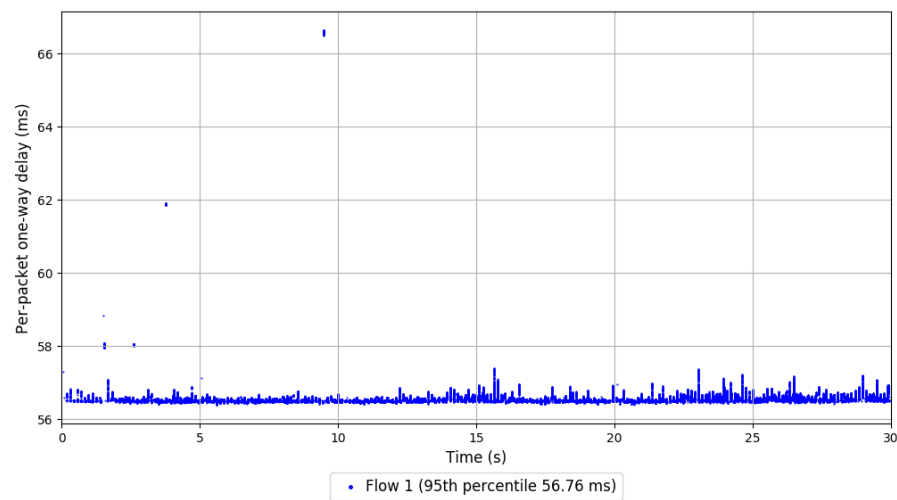
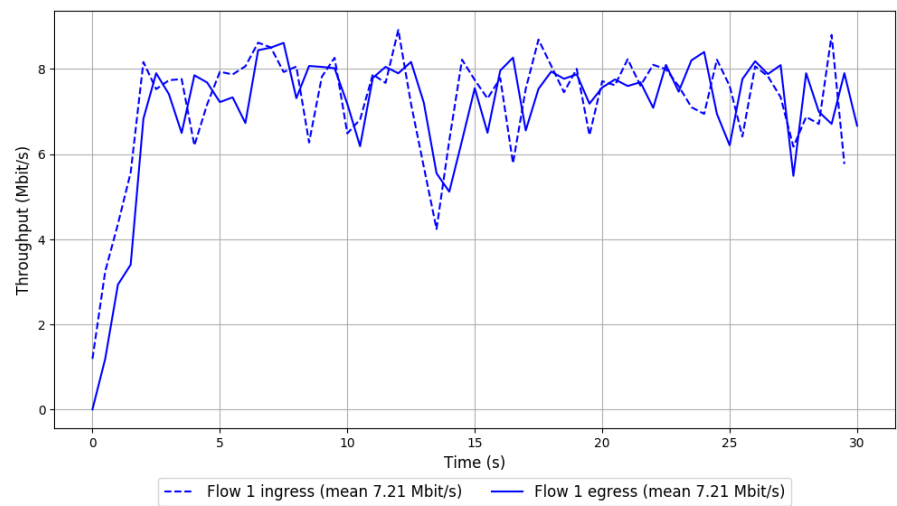


Run 5: Statistics of Sprout

Start at: 2019-12-12 05:52:37
End at: 2019-12-12 05:53:07
Local clock offset: 0.156 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2019-12-12 08:29:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 56.757 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 56.757 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

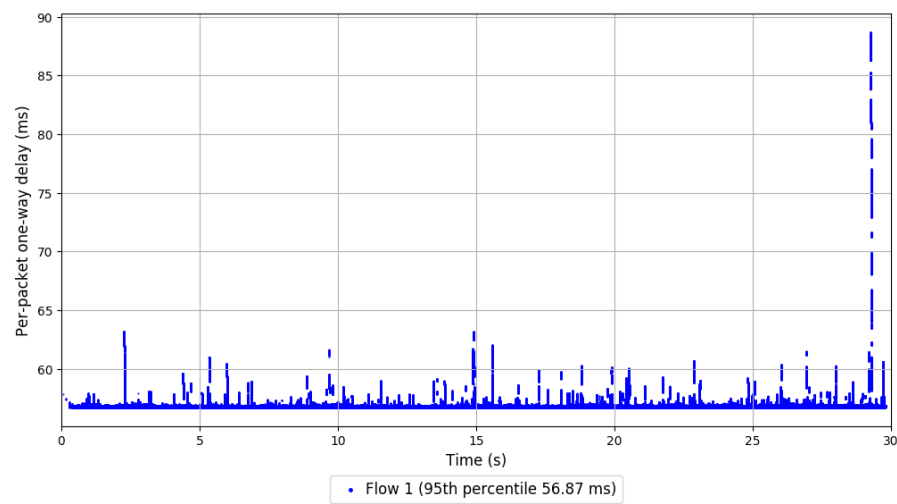
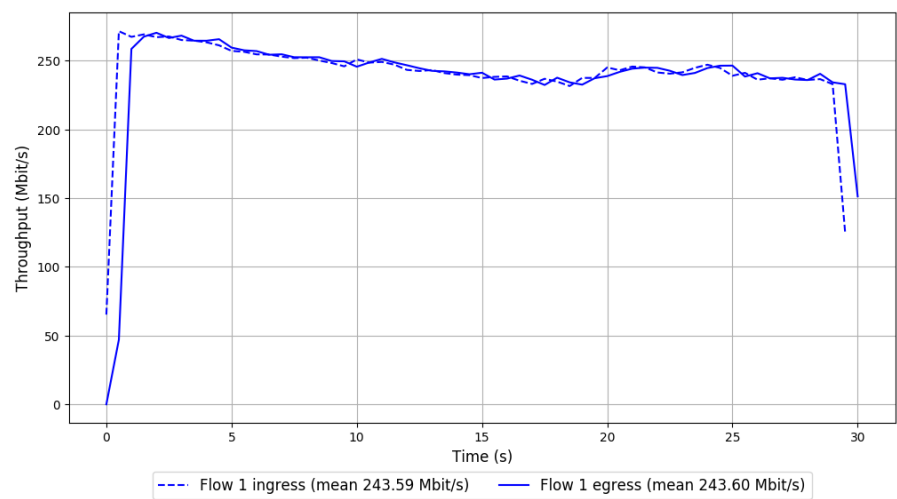


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-12-12 03:15:29
End at: 2019-12-12 03:15:59
Local clock offset: 0.077 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-12-12 08:32:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.60 Mbit/s
95th percentile per-packet one-way delay: 56.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 243.60 Mbit/s
95th percentile per-packet one-way delay: 56.865 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-12-12 03:50:55

End at: 2019-12-12 03:51:25

Local clock offset: 0.217 ms

Remote clock offset: -0.043 ms

Below is generated by plot.py at 2019-12-12 08:32:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.18 Mbit/s

95th percentile per-packet one-way delay: 60.484 ms

Loss rate: 0.00%

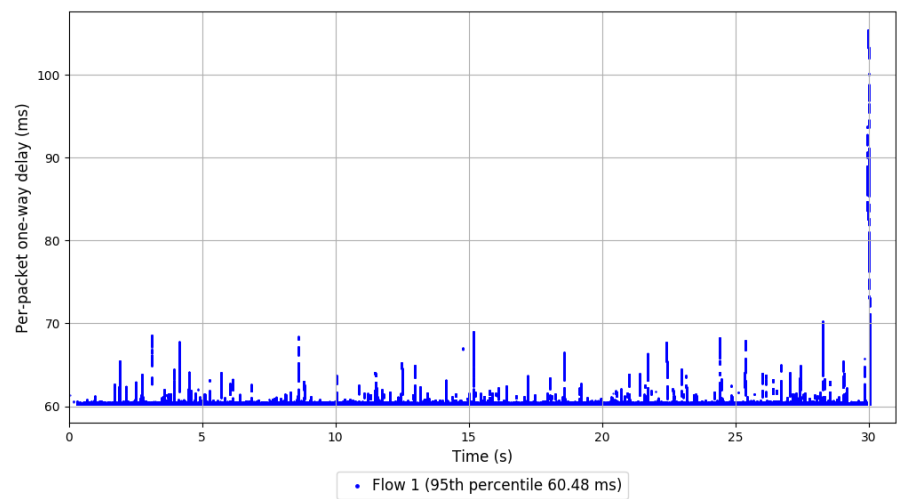
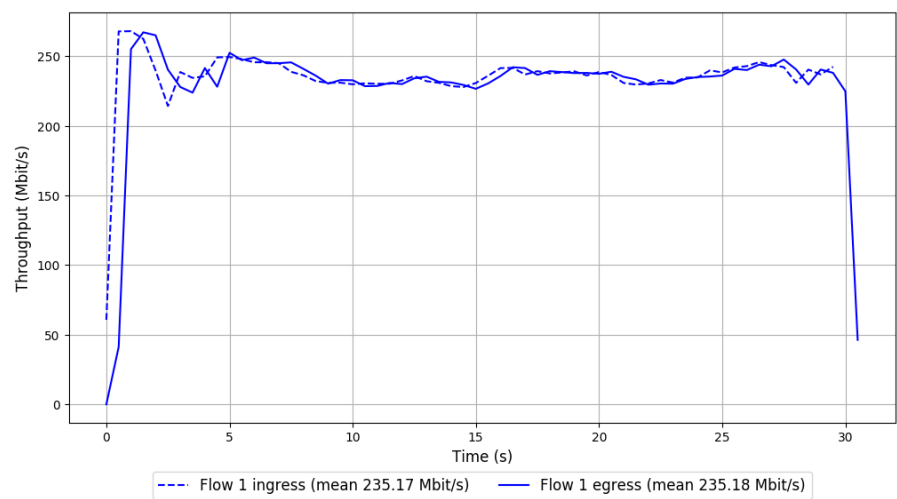
-- Flow 1:

Average throughput: 235.18 Mbit/s

95th percentile per-packet one-way delay: 60.484 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-12-12 04:26:18

End at: 2019-12-12 04:26:48

Local clock offset: 0.404 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2019-12-12 08:32:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.97 Mbit/s

95th percentile per-packet one-way delay: 56.945 ms

Loss rate: 0.00%

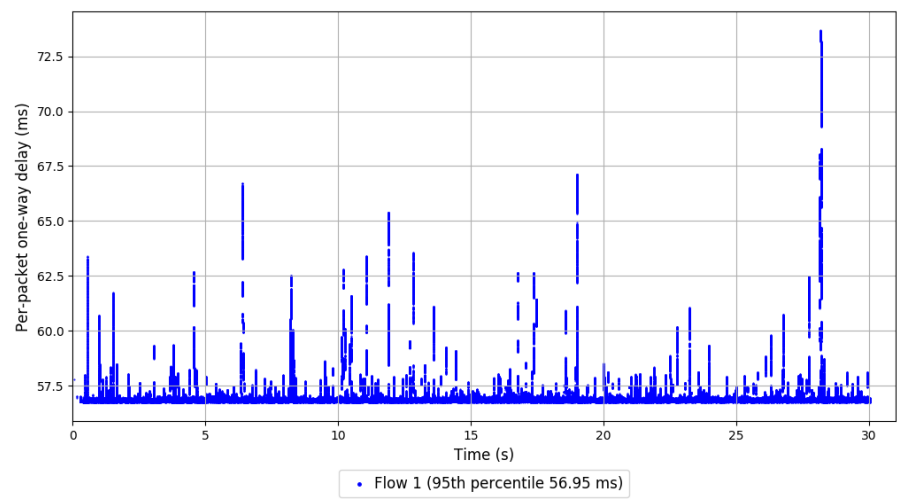
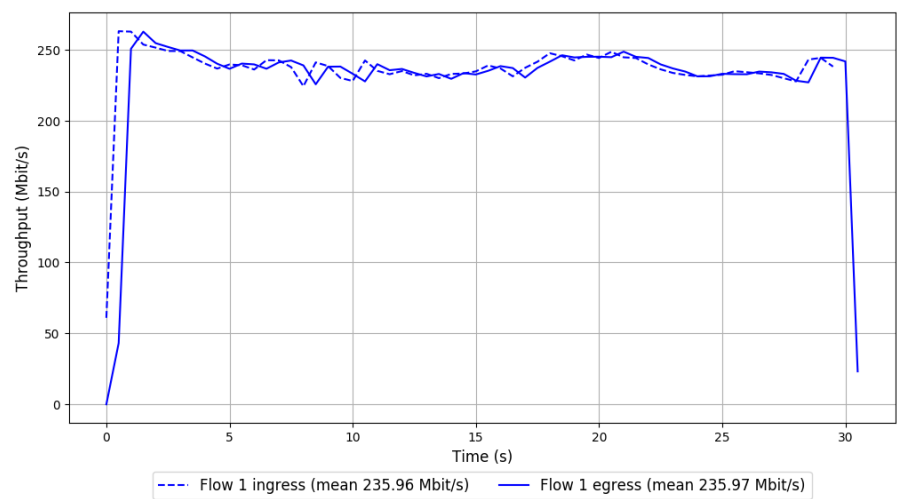
-- Flow 1:

Average throughput: 235.97 Mbit/s

95th percentile per-packet one-way delay: 56.945 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-12-12 05:01:34

End at: 2019-12-12 05:02:04

Local clock offset: 0.248 ms

Remote clock offset: -0.161 ms

Below is generated by plot.py at 2019-12-12 08:32:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.04 Mbit/s

95th percentile per-packet one-way delay: 57.084 ms

Loss rate: 0.00%

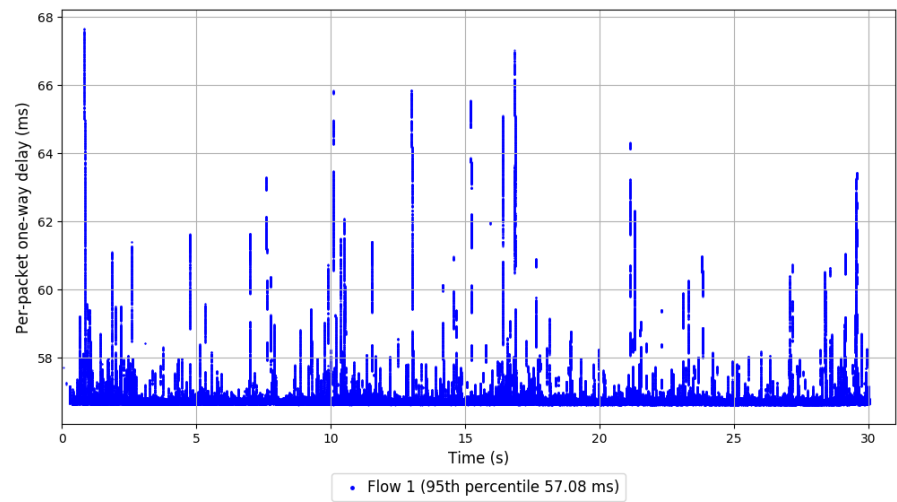
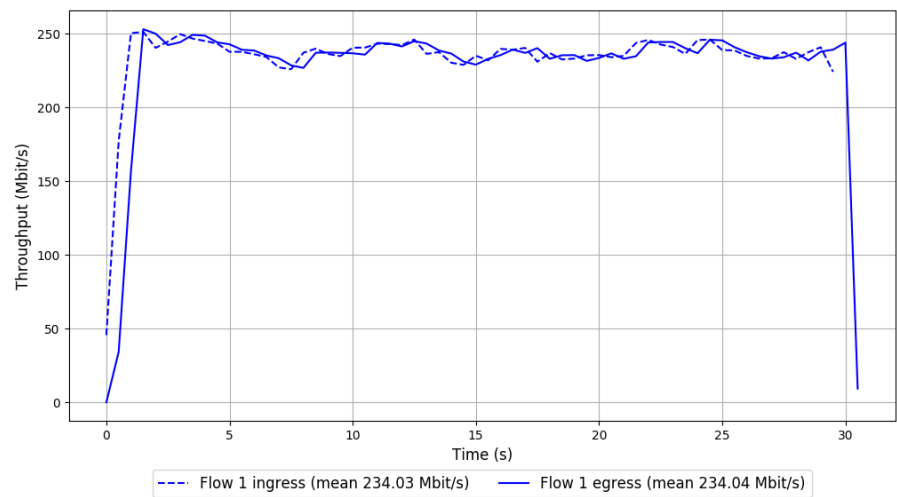
-- Flow 1:

Average throughput: 234.04 Mbit/s

95th percentile per-packet one-way delay: 57.084 ms

Loss rate: 0.00%

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

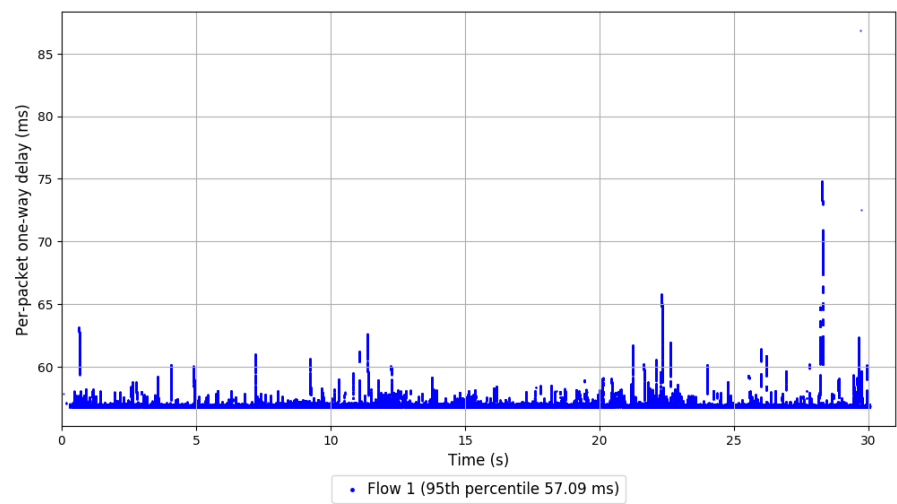
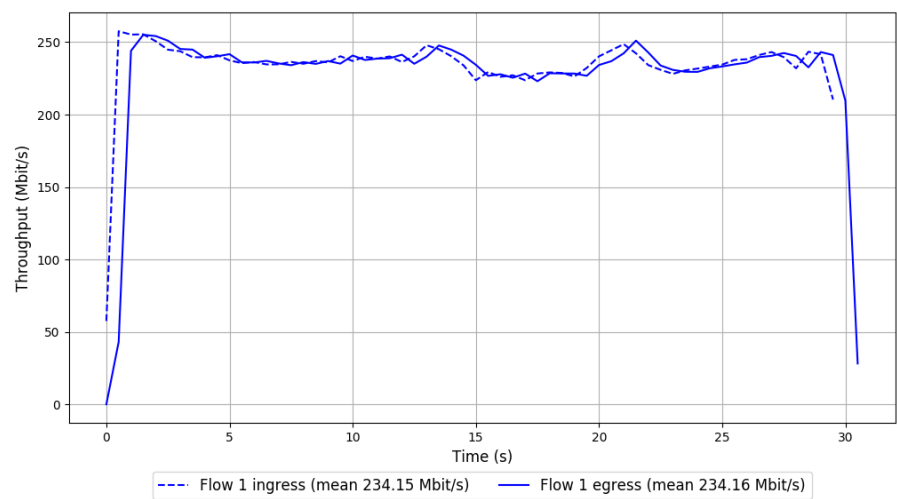


Run 5: Statistics of TaoVA-100x

Start at: 2019-12-12 05:36:44
End at: 2019-12-12 05:37:14
Local clock offset: -0.117 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2019-12-12 08:32:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 234.16 Mbit/s
95th percentile per-packet one-way delay: 57.086 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.16 Mbit/s
95th percentile per-packet one-way delay: 57.086 ms
Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-12-12 03:24:56

End at: 2019-12-12 03:25:26

Local clock offset: 0.124 ms

Remote clock offset: -0.097 ms

Below is generated by plot.py at 2019-12-12 08:33:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 482.39 Mbit/s

95th percentile per-packet one-way delay: 62.485 ms

Loss rate: 0.03%

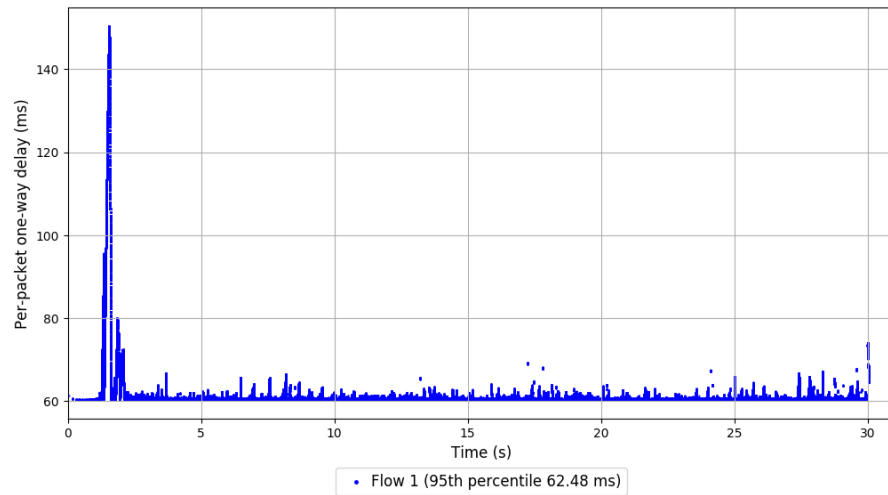
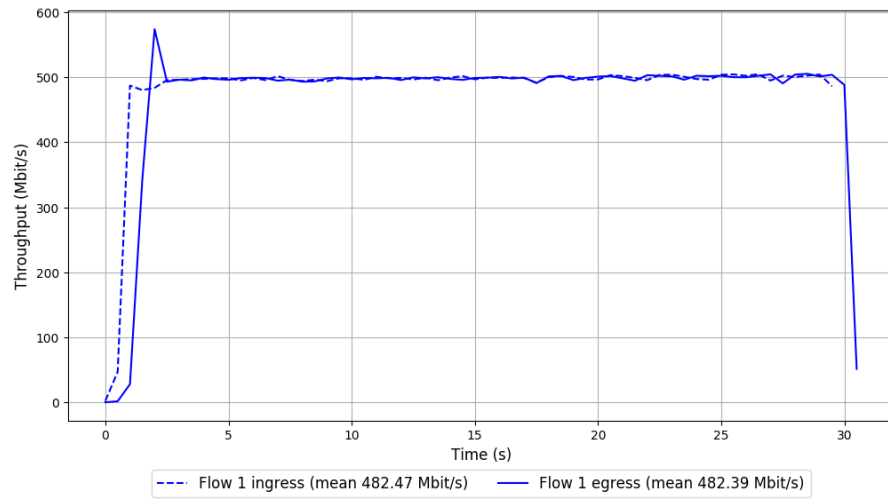
-- Flow 1:

Average throughput: 482.39 Mbit/s

95th percentile per-packet one-way delay: 62.485 ms

Loss rate: 0.03%

Run 1: Report of TCP Vegas — Data Link

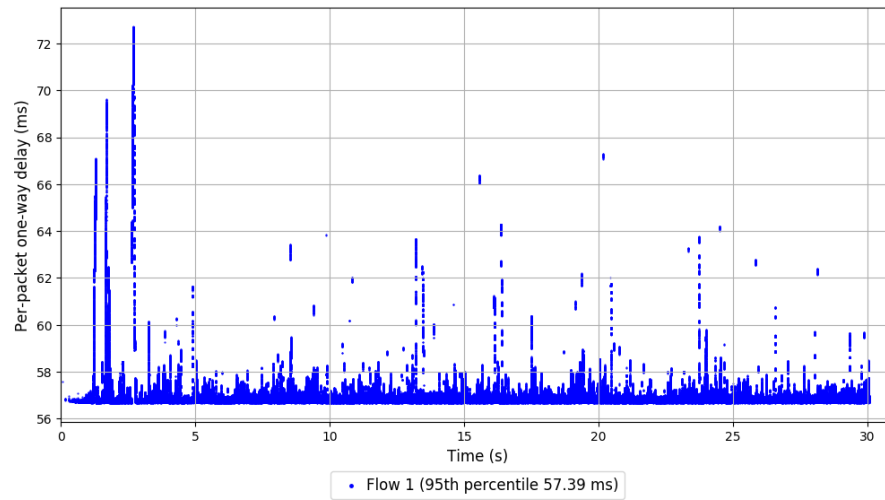
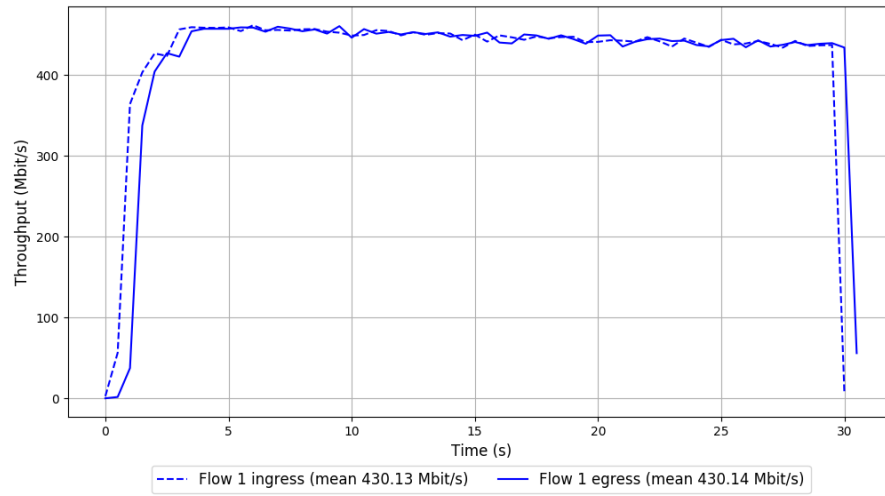


Run 2: Statistics of TCP Vegas

Start at: 2019-12-12 04:00:14
End at: 2019-12-12 04:00:44
Local clock offset: 0.253 ms
Remote clock offset: -0.149 ms

Below is generated by plot.py at 2019-12-12 08:36:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 430.14 Mbit/s
95th percentile per-packet one-way delay: 57.394 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 430.14 Mbit/s
95th percentile per-packet one-way delay: 57.394 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

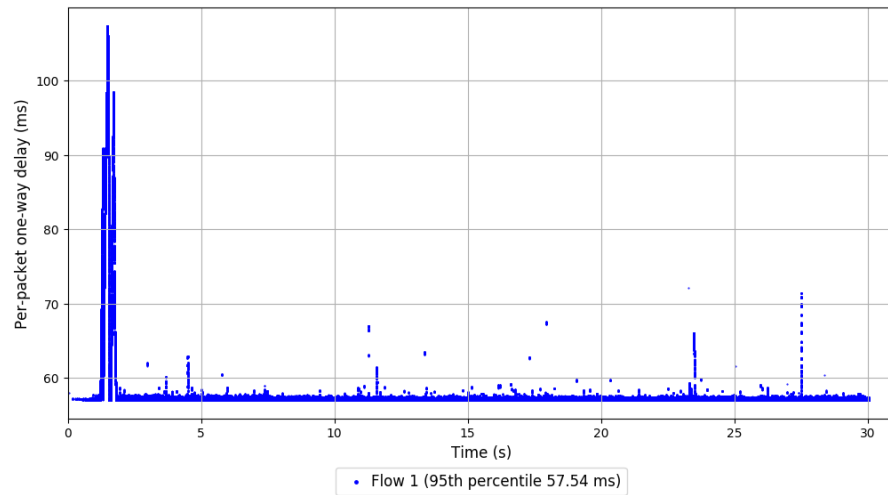
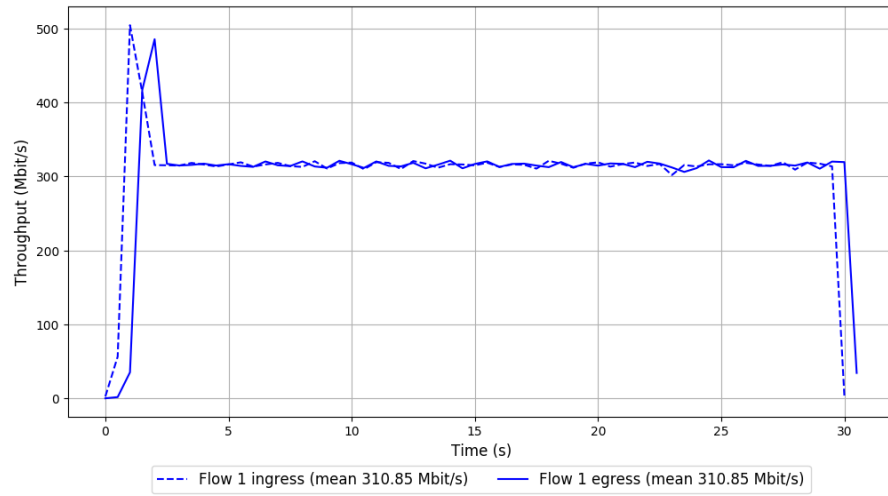


Run 3: Statistics of TCP Vegas

Start at: 2019-12-12 04:35:42
End at: 2019-12-12 04:36:12
Local clock offset: 0.427 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2019-12-12 08:36:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 310.85 Mbit/s
95th percentile per-packet one-way delay: 57.542 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 310.85 Mbit/s
95th percentile per-packet one-way delay: 57.542 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-12-12 05:10:32

End at: 2019-12-12 05:11:02

Local clock offset: -0.008 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2019-12-12 08:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 463.84 Mbit/s

95th percentile per-packet one-way delay: 61.786 ms

Loss rate: 0.00%

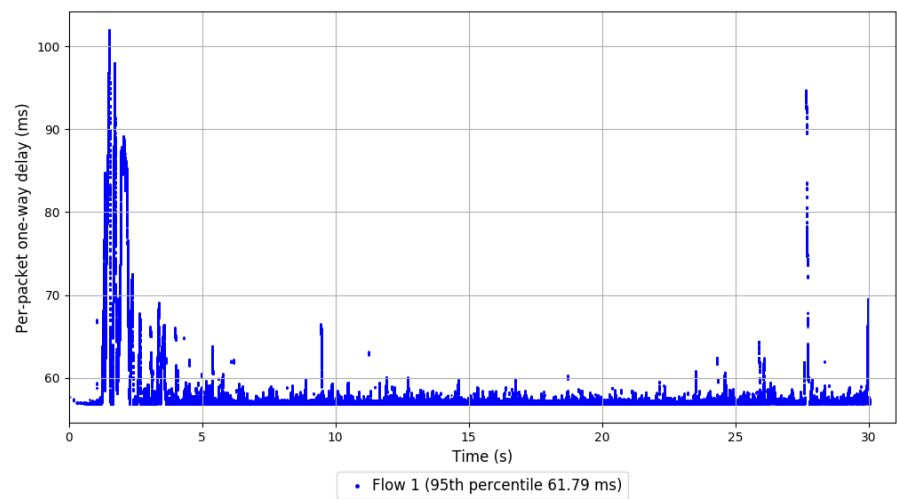
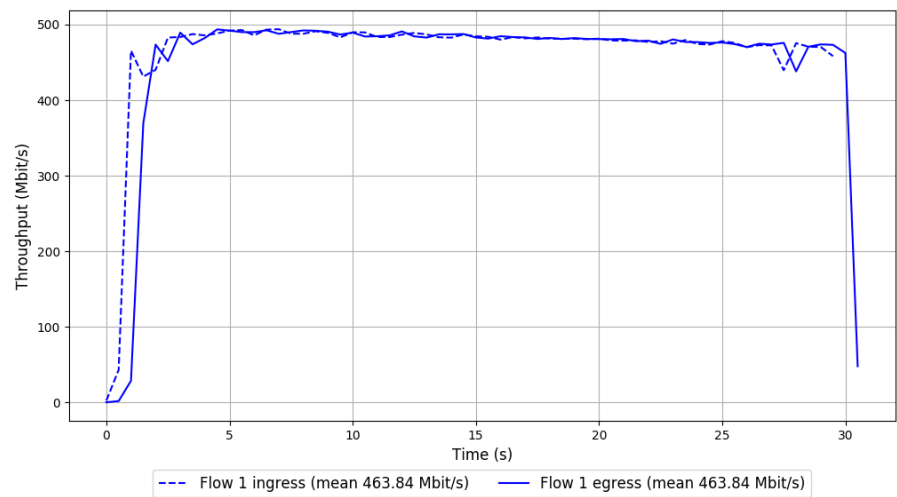
-- Flow 1:

Average throughput: 463.84 Mbit/s

95th percentile per-packet one-way delay: 61.786 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

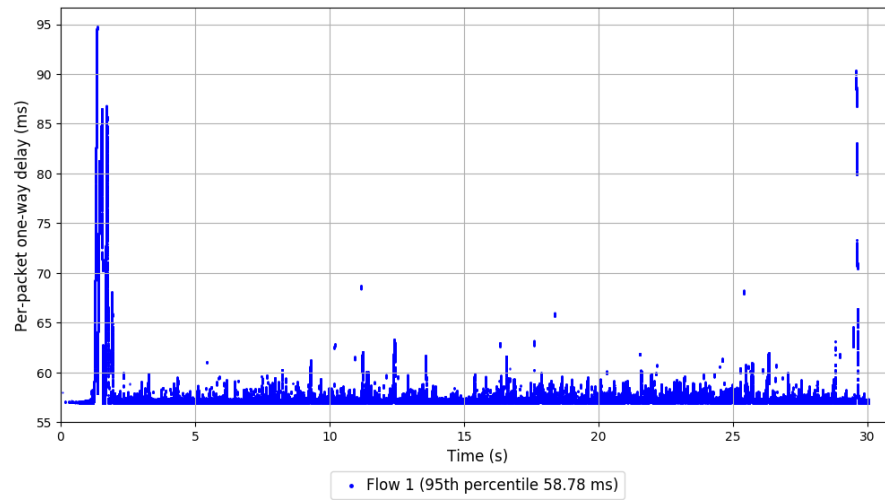
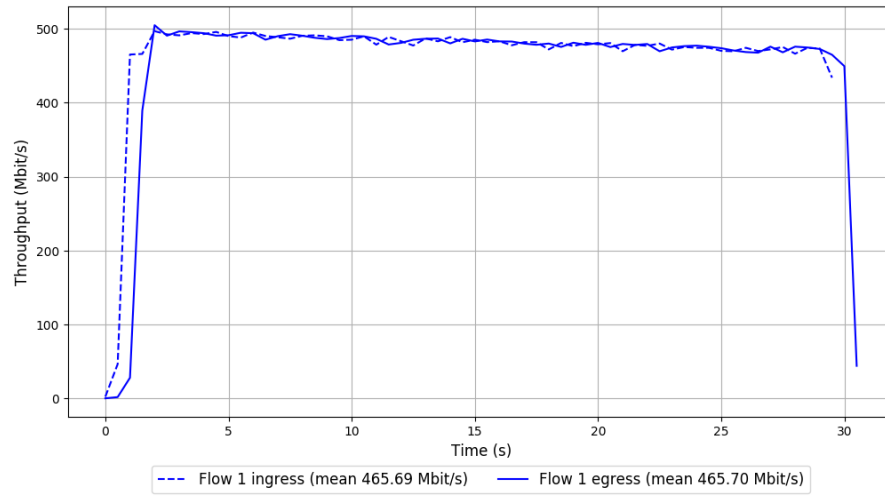


Run 5: Statistics of TCP Vegas

Start at: 2019-12-12 05:46:06
End at: 2019-12-12 05:46:36
Local clock offset: -0.132 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2019-12-12 08:42:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 465.70 Mbit/s
95th percentile per-packet one-way delay: 58.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 465.70 Mbit/s
95th percentile per-packet one-way delay: 58.783 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

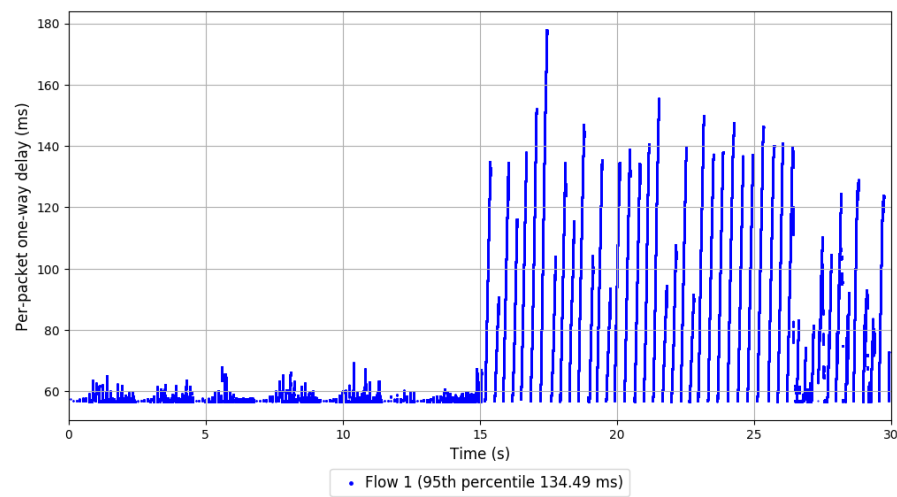
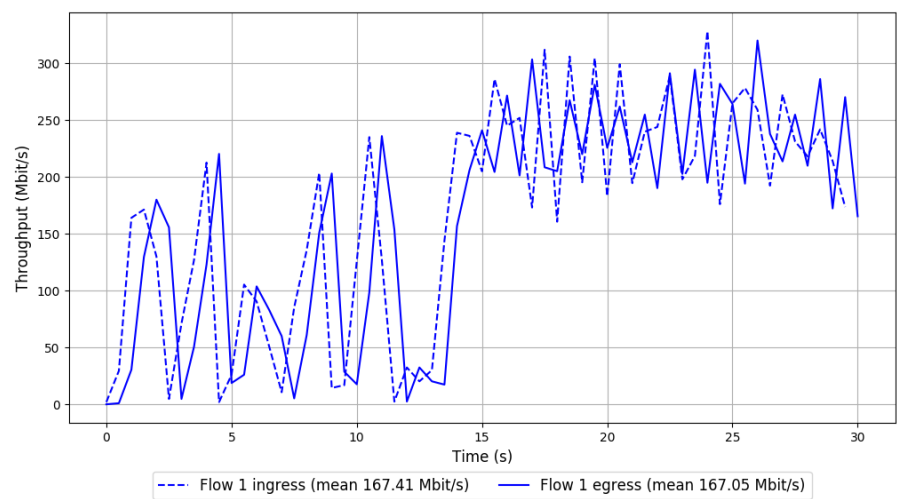


Run 1: Statistics of Verus

Start at: 2019-12-12 03:35:35
End at: 2019-12-12 03:36:05
Local clock offset: 0.198 ms
Remote clock offset: -0.299 ms

Below is generated by plot.py at 2019-12-12 08:42:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 167.05 Mbit/s
95th percentile per-packet one-way delay: 134.489 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 167.05 Mbit/s
95th percentile per-packet one-way delay: 134.489 ms
Loss rate: 0.21%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-12-12 04:10:52

End at: 2019-12-12 04:11:22

Local clock offset: 0.31 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2019-12-12 08:42:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.29 Mbit/s

95th percentile per-packet one-way delay: 135.792 ms

Loss rate: 0.05%

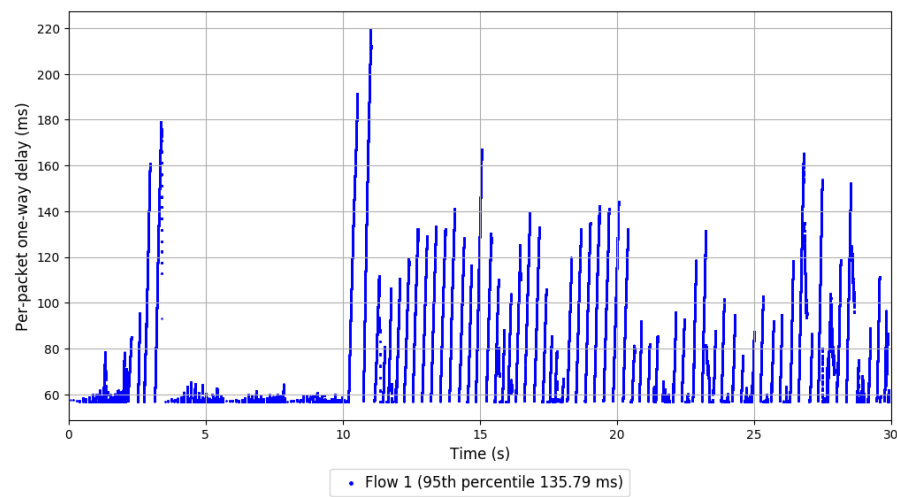
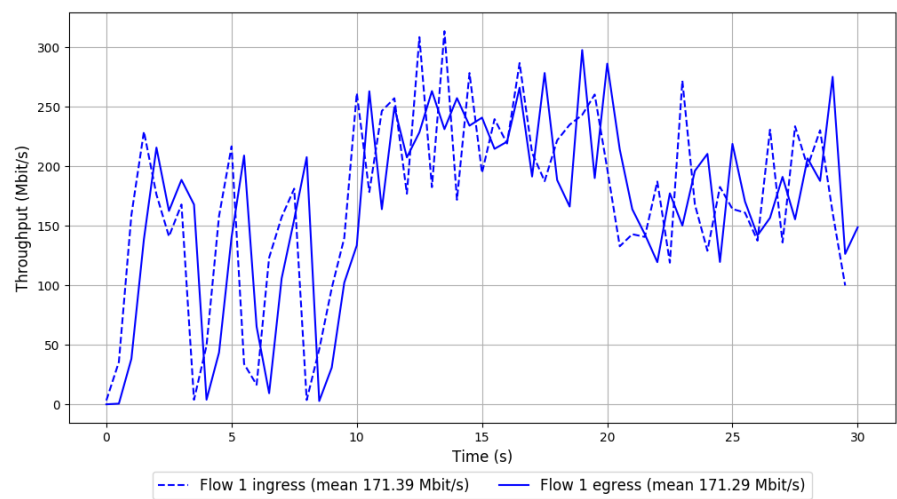
-- Flow 1:

Average throughput: 171.29 Mbit/s

95th percentile per-packet one-way delay: 135.792 ms

Loss rate: 0.05%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-12-12 04:46:14

End at: 2019-12-12 04:46:44

Local clock offset: 0.947 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2019-12-12 08:42:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.02 Mbit/s

95th percentile per-packet one-way delay: 129.799 ms

Loss rate: 0.00%

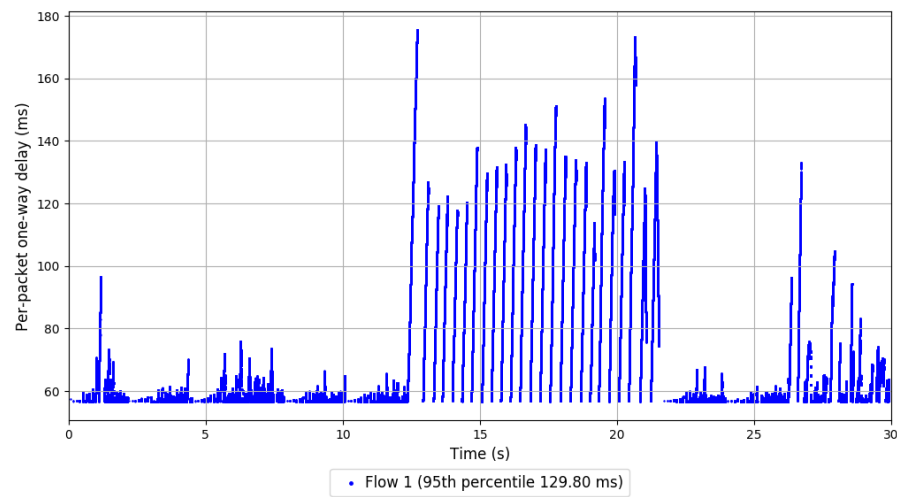
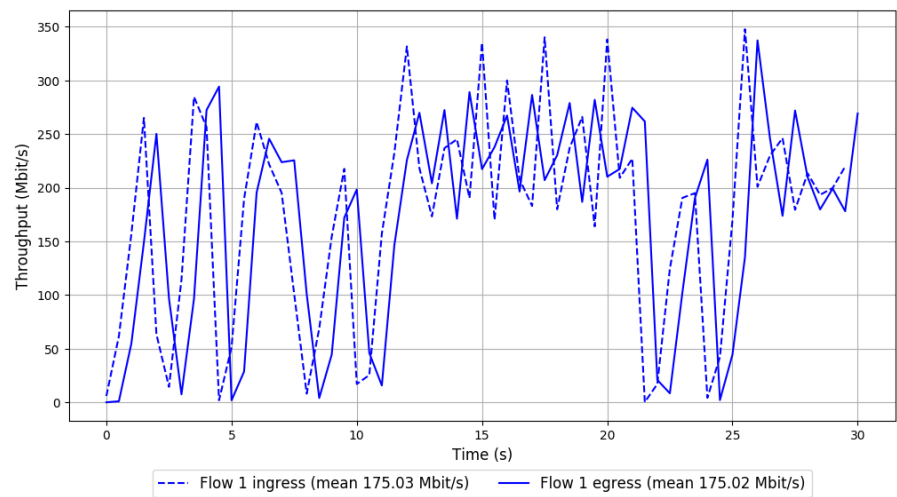
-- Flow 1:

Average throughput: 175.02 Mbit/s

95th percentile per-packet one-way delay: 129.799 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link

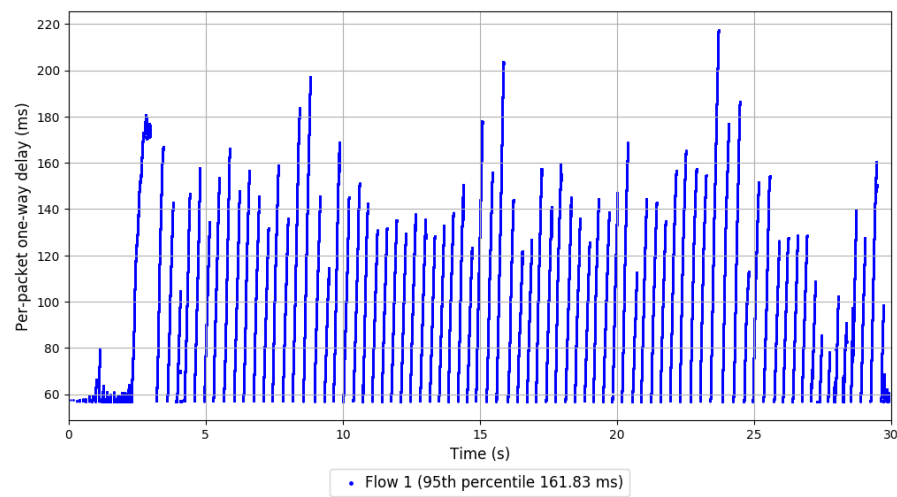
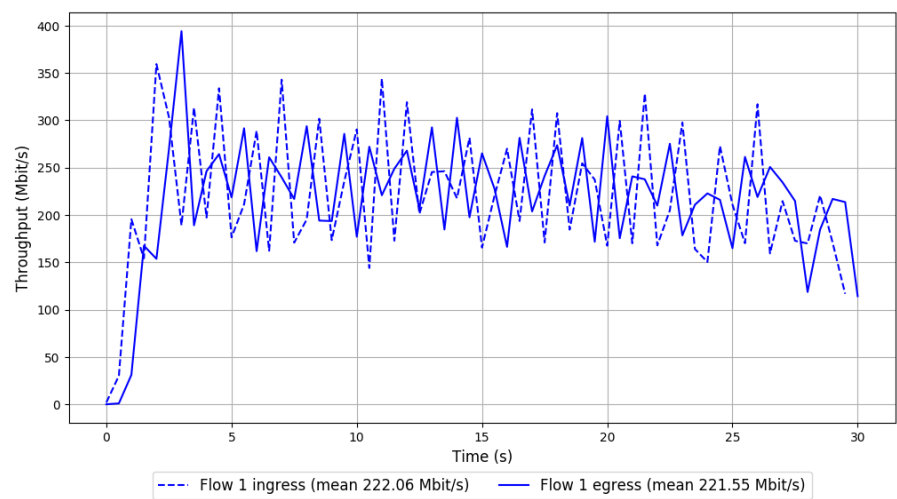


Run 4: Statistics of Verus

Start at: 2019-12-12 05:21:21
End at: 2019-12-12 05:21:51
Local clock offset: -0.128 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2019-12-12 08:42:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 221.55 Mbit/s
95th percentile per-packet one-way delay: 161.826 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 221.55 Mbit/s
95th percentile per-packet one-way delay: 161.826 ms
Loss rate: 0.23%

Run 4: Report of Verus — Data Link

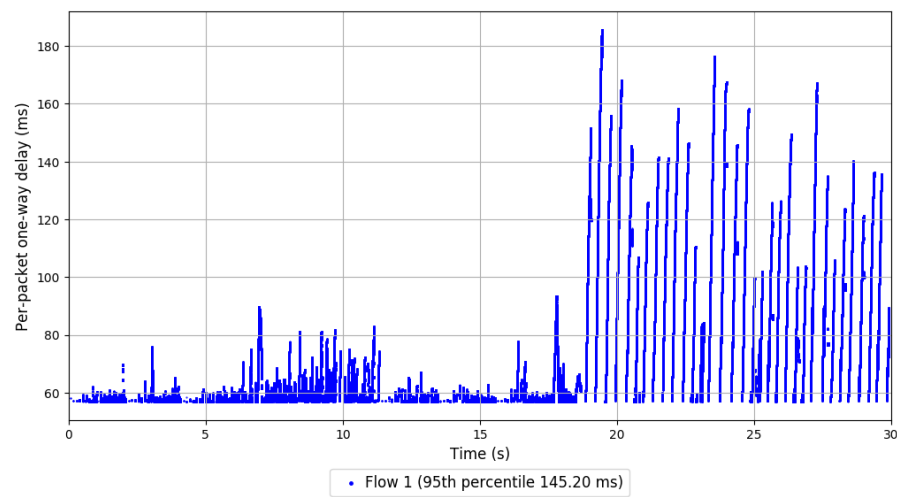
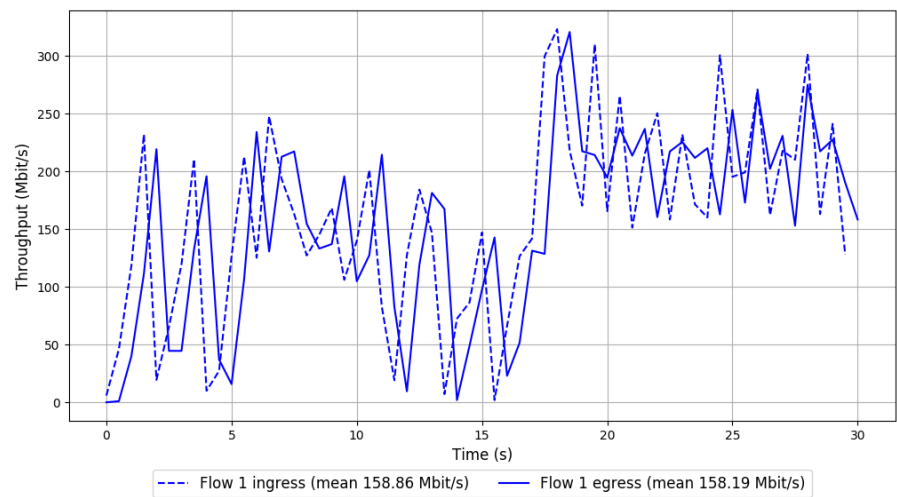


Run 5: Statistics of Verus

Start at: 2019-12-12 05:56:51
End at: 2019-12-12 05:57:22
Local clock offset: -0.1 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2019-12-12 08:42:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 158.19 Mbit/s
95th percentile per-packet one-way delay: 145.197 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 158.19 Mbit/s
95th percentile per-packet one-way delay: 145.197 ms
Loss rate: 0.42%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-12-12 03:32:39

End at: 2019-12-12 03:33:09

Local clock offset: 0.146 ms

Remote clock offset: -0.166 ms

Below is generated by plot.py at 2019-12-12 08:42:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.16 Mbit/s

95th percentile per-packet one-way delay: 139.840 ms

Loss rate: 0.07%

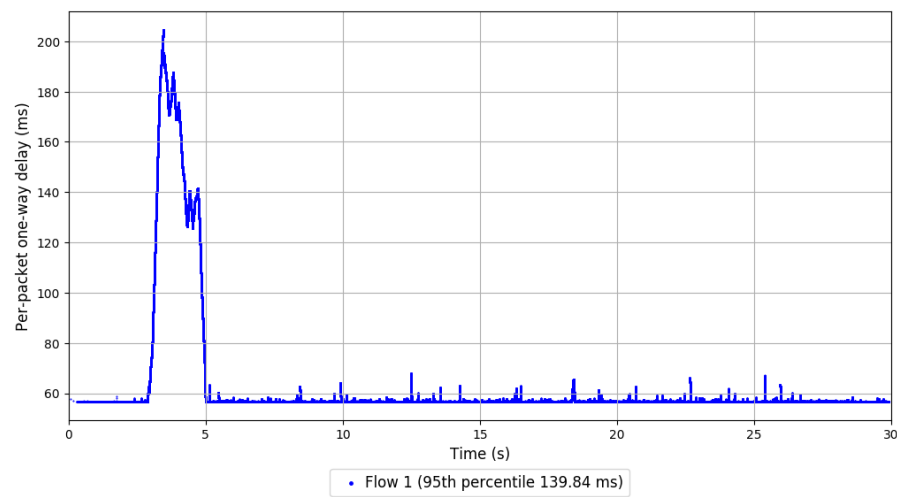
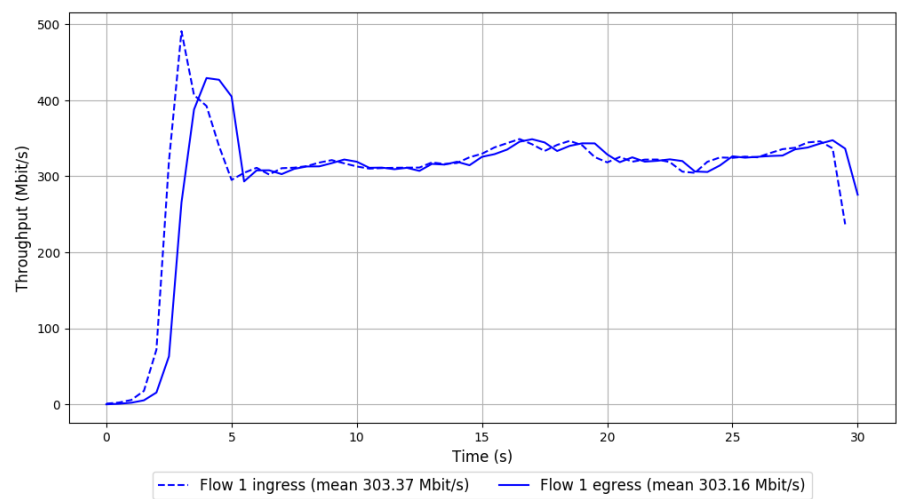
-- Flow 1:

Average throughput: 303.16 Mbit/s

95th percentile per-packet one-way delay: 139.840 ms

Loss rate: 0.07%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-12-12 04:07:50

End at: 2019-12-12 04:08:20

Local clock offset: 0.294 ms

Remote clock offset: -0.139 ms

Below is generated by plot.py at 2019-12-12 08:44:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.63 Mbit/s

95th percentile per-packet one-way delay: 58.657 ms

Loss rate: 0.00%

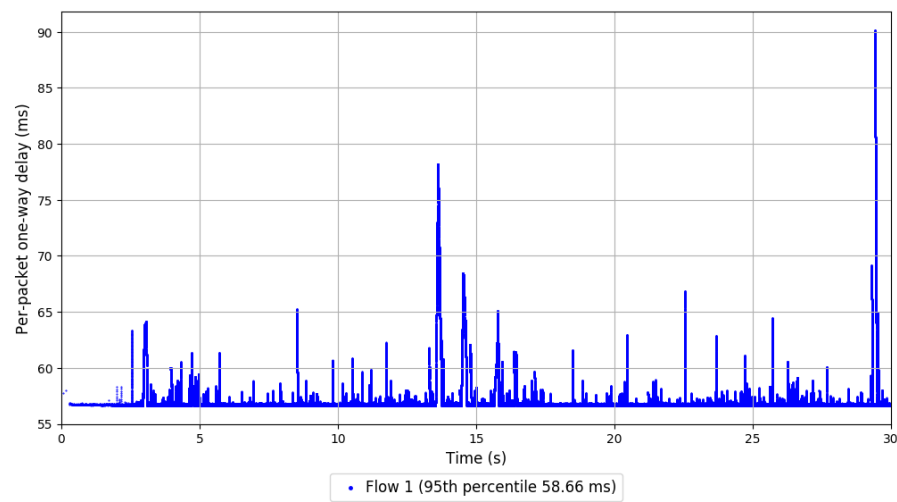
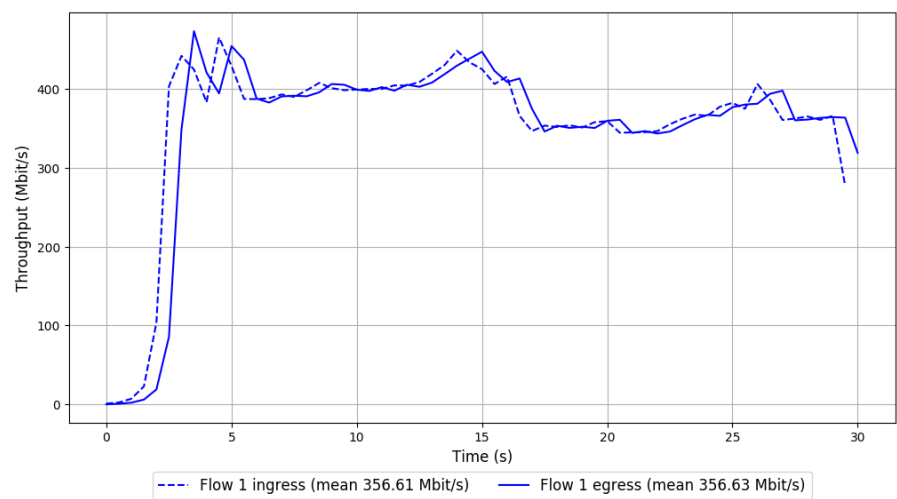
-- Flow 1:

Average throughput: 356.63 Mbit/s

95th percentile per-packet one-way delay: 58.657 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-12-12 04:43:14

End at: 2019-12-12 04:43:44

Local clock offset: 0.518 ms

Remote clock offset: -0.108 ms

Below is generated by plot.py at 2019-12-12 08:44:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 320.52 Mbit/s

95th percentile per-packet one-way delay: 65.355 ms

Loss rate: 0.00%

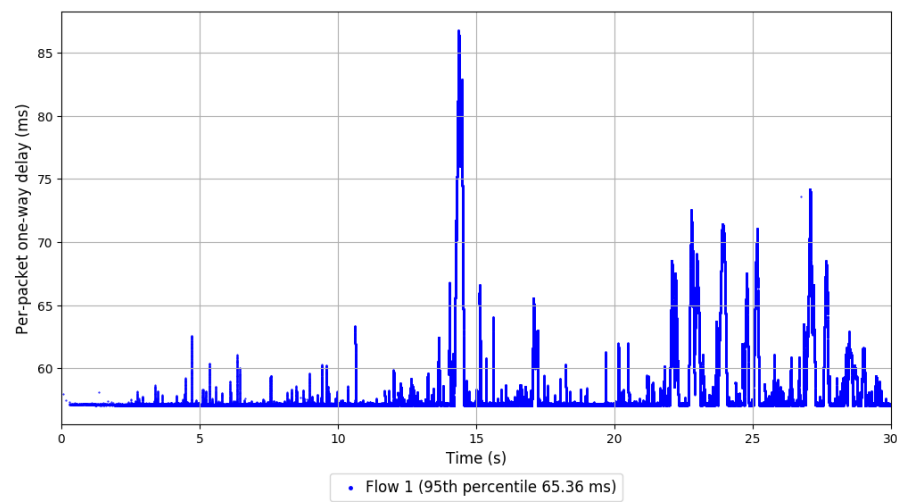
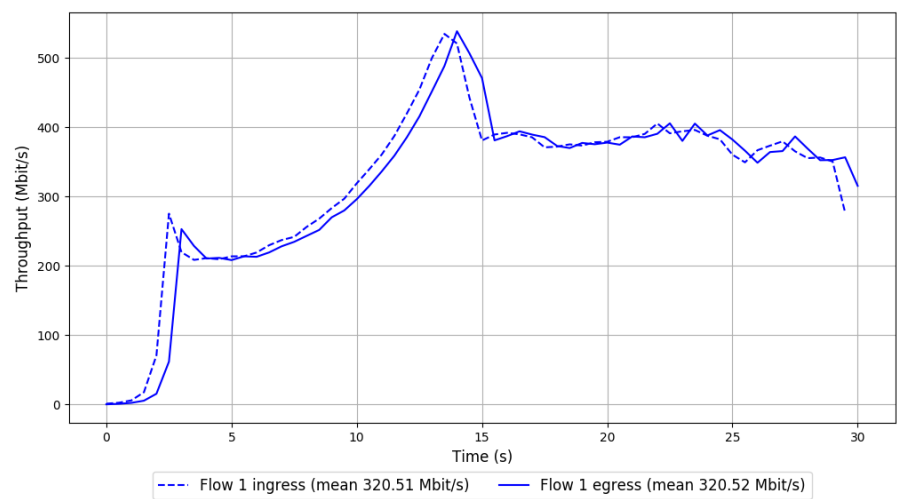
-- Flow 1:

Average throughput: 320.52 Mbit/s

95th percentile per-packet one-way delay: 65.355 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-12-12 05:18:16

End at: 2019-12-12 05:18:46

Local clock offset: -0.071 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2019-12-12 08:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.65 Mbit/s

95th percentile per-packet one-way delay: 60.042 ms

Loss rate: 0.00%

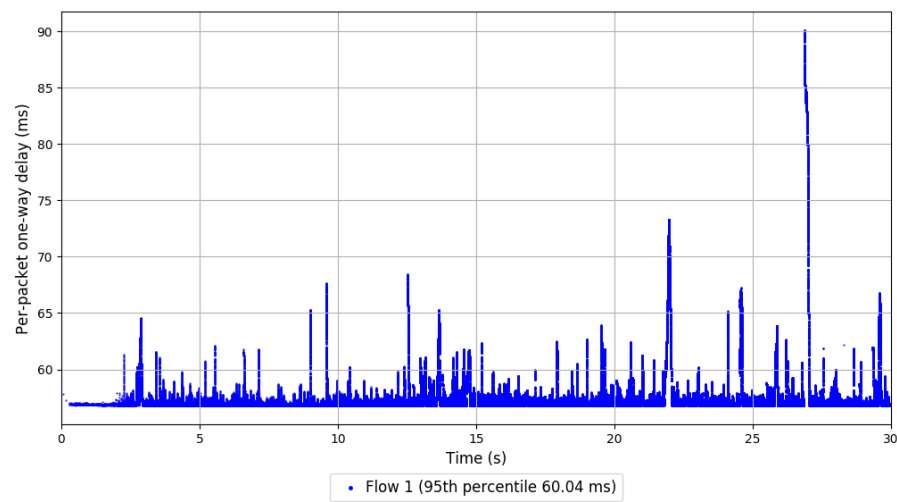
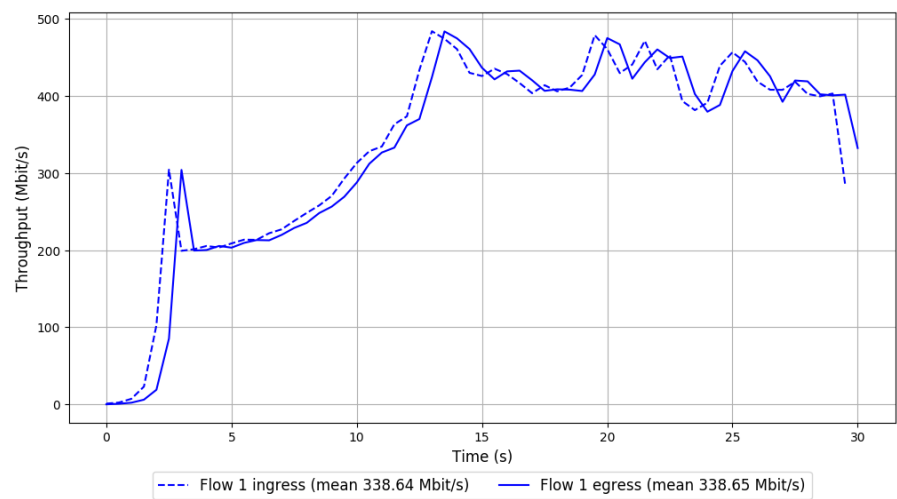
-- Flow 1:

Average throughput: 338.65 Mbit/s

95th percentile per-packet one-way delay: 60.042 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

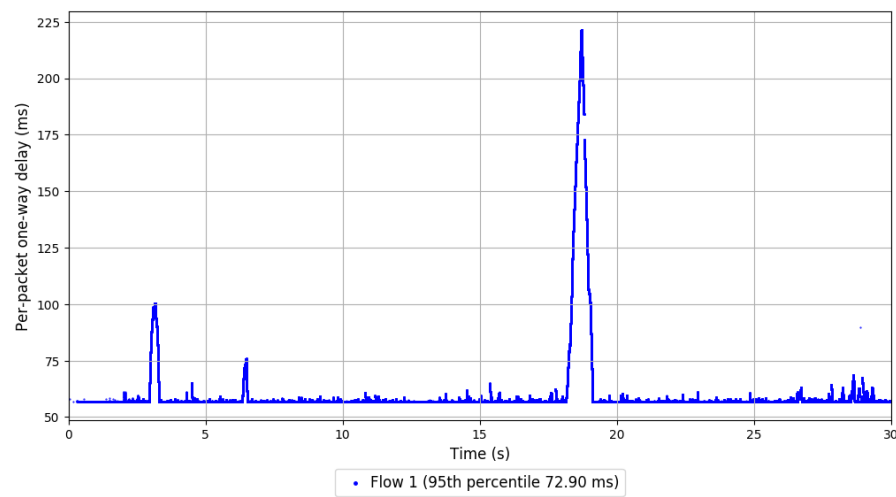
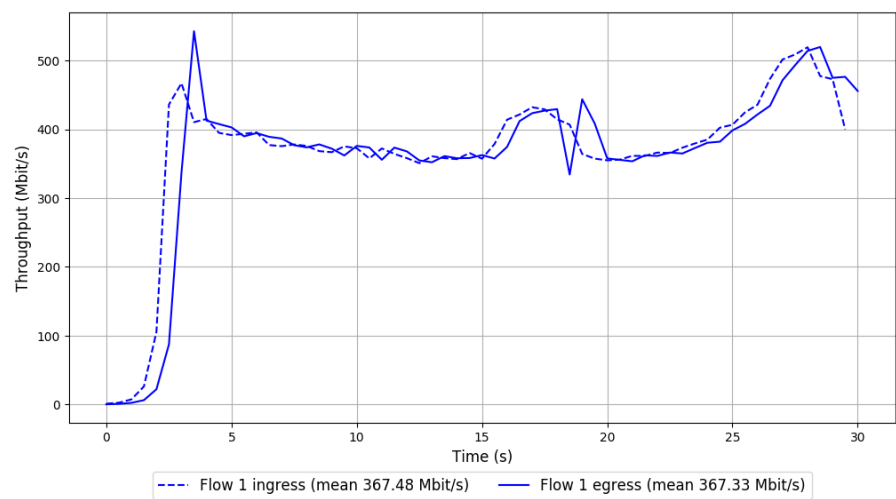


Run 5: Statistics of PCC-Vivace

Start at: 2019-12-12 05:53:46
End at: 2019-12-12 05:54:16
Local clock offset: -0.14 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2019-12-12 08:44:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 367.33 Mbit/s
95th percentile per-packet one-way delay: 72.904 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 367.33 Mbit/s
95th percentile per-packet one-way delay: 72.904 ms
Loss rate: 0.04%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

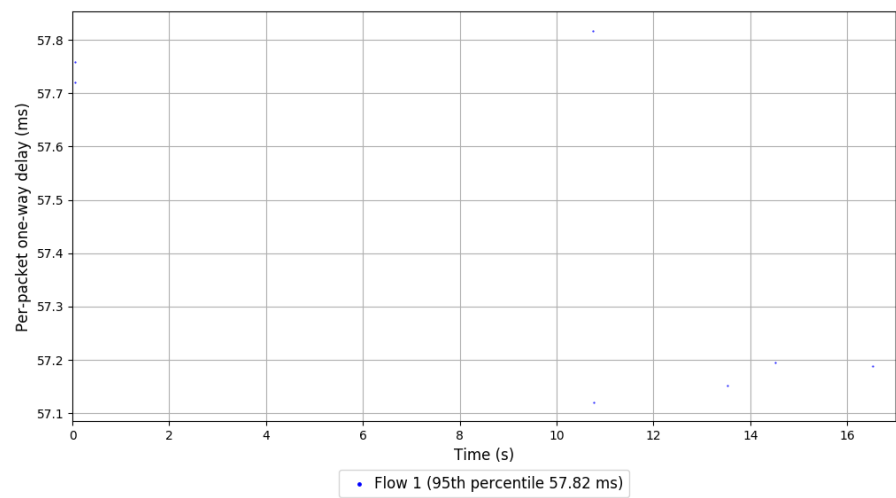
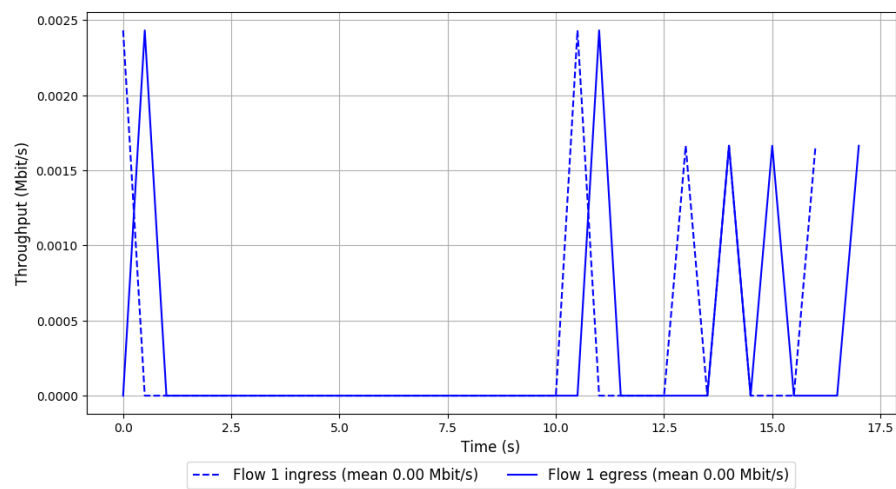
Start at: 2019-12-12 03:06:17

End at: 2019-12-12 03:06:47

Local clock offset: 0.058 ms

Remote clock offset: 0.051 ms

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-12-12 03:41:40

End at: 2019-12-12 03:42:10

Local clock offset: 0.175 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2019-12-12 08:44:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.486 ms

Loss rate: 0.00%

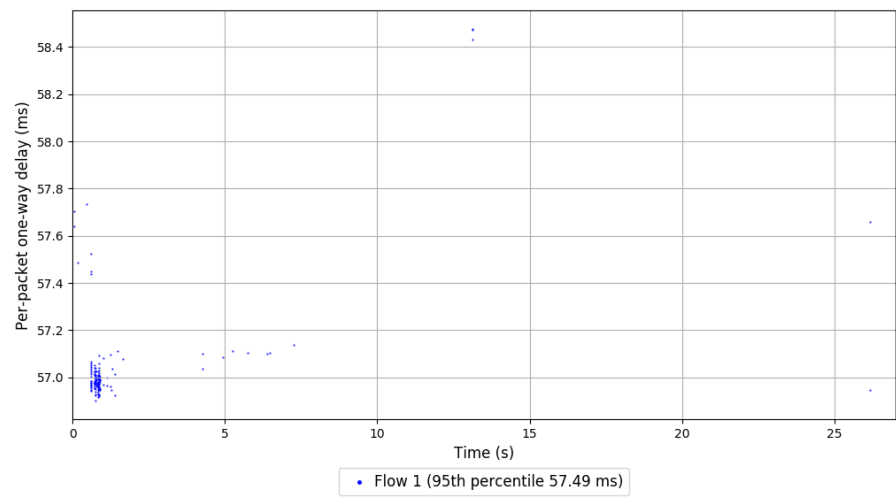
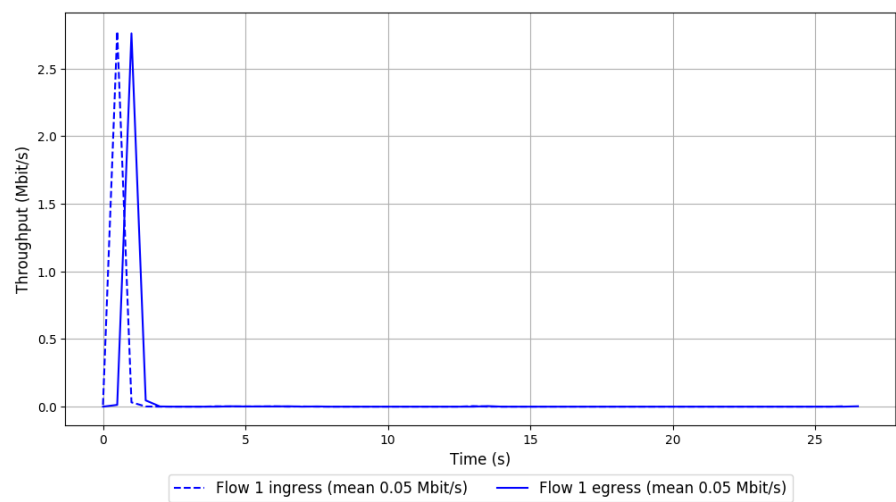
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.486 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

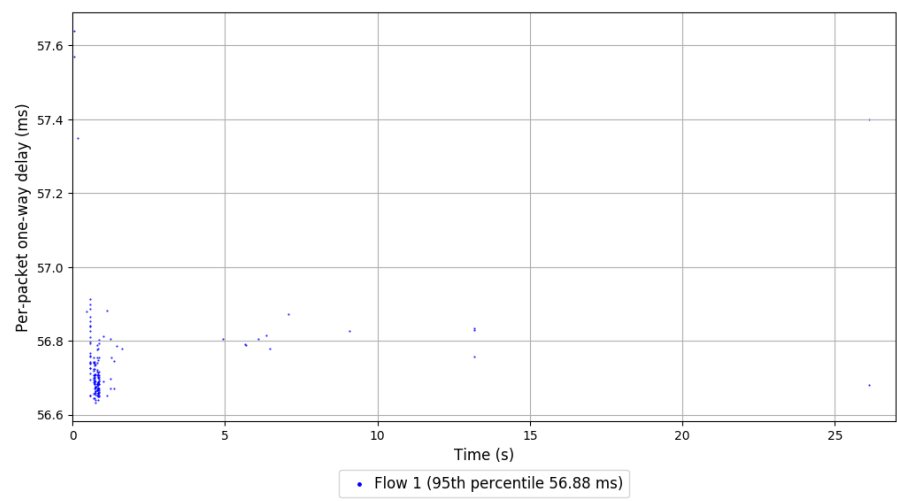
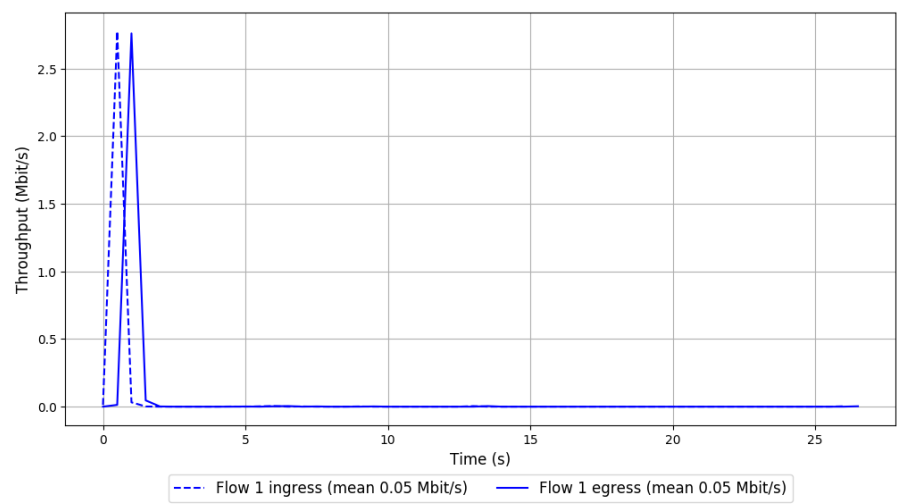


Run 3: Statistics of WebRTC media

Start at: 2019-12-12 04:17:03
End at: 2019-12-12 04:17:33
Local clock offset: 0.366 ms
Remote clock offset: -0.209 ms

Below is generated by plot.py at 2019-12-12 08:44:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.880 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.880 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

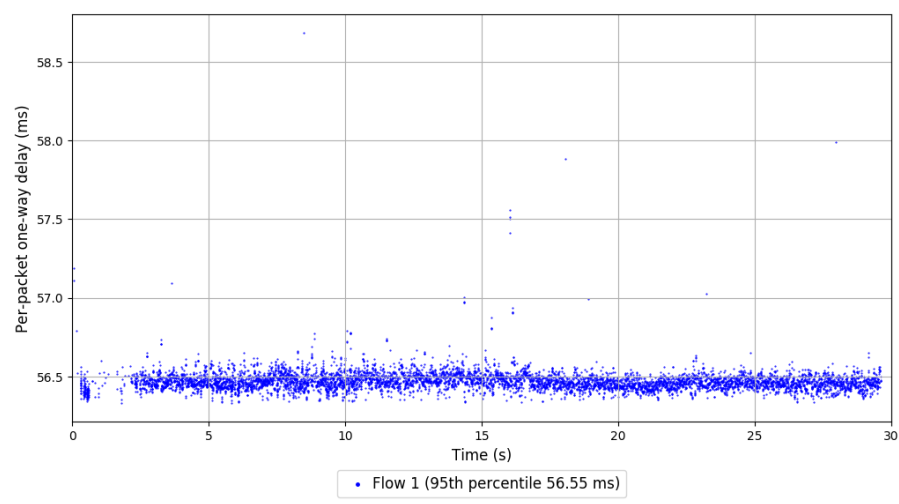
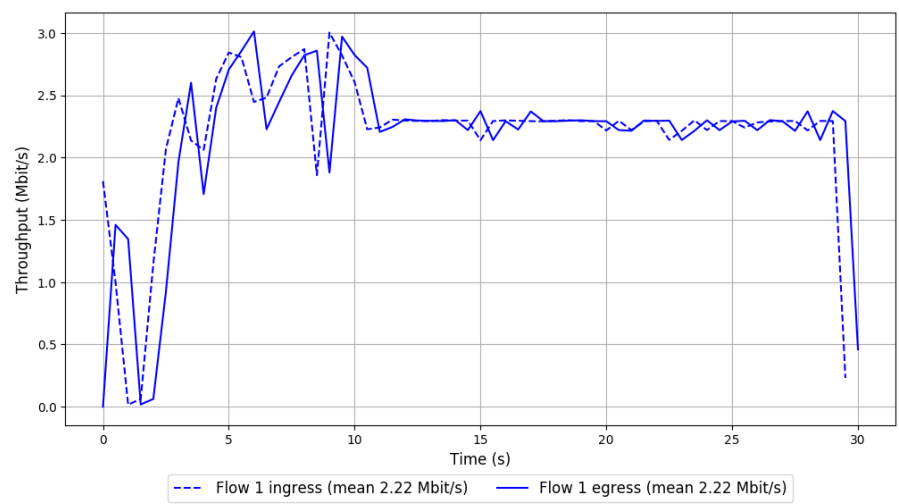


Run 4: Statistics of WebRTC media

Start at: 2019-12-12 04:52:23
End at: 2019-12-12 04:52:53
Local clock offset: 0.976 ms
Remote clock offset: -0.207 ms

Below is generated by plot.py at 2019-12-12 08:44:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 56.552 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 56.552 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-12-12 05:27:31
End at: 2019-12-12 05:28:01
Local clock offset: -0.167 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-12-12 08:44:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.883 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.883 ms
Loss rate: 0.05%

Run 5: Report of WebRTC media — Data Link

