

Pantheon Report

Generated at 2019-08-26 21:01:16 (UTC).

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

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:

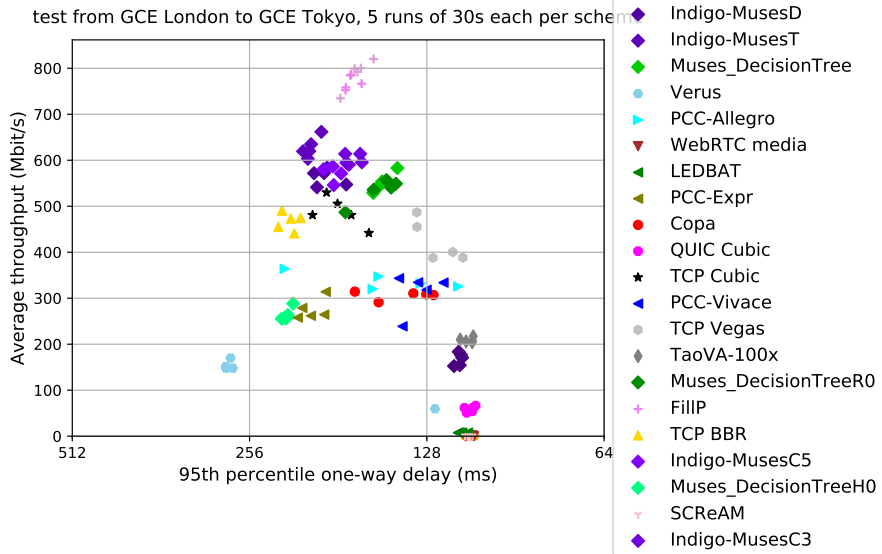
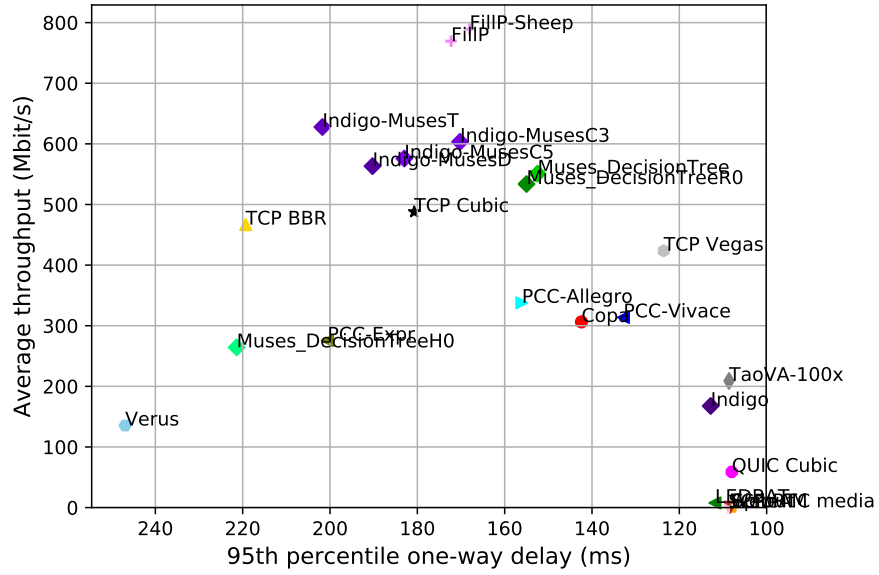
```
Linux 4.15.0-1036-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

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 London to GCE Tokyo, 5 runs of 30s each per scheme
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	466.82	219.33	2.53
Copa	5	306.27	142.42	0.79
TCP Cubic	5	487.80	180.72	0.89
FillP	5	769.52	172.27	2.71
FillP-Sheep	5	789.29	168.04	2.02
Indigo	5	167.65	112.83	0.81
Indigo-MusesC3	4	603.37	170.22	0.95
Indigo-MusesC5	5	575.82	182.99	1.00
Indigo-MusesD	5	563.22	190.26	0.97
Indigo-MusesT	5	627.77	201.75	1.57
LEDBAT	5	7.69	111.84	1.47
Muses_DecisionTree	5	550.91	152.46	0.87
Muses_DecisionTreeH0	5	264.31	221.38	17.88
Muses_DecisionTreeR0	5	533.76	155.00	1.04
PCC-Allegro	5	337.77	156.06	1.45
PCC-Expr	5	275.35	200.59	1.81
QUIC Cubic	5	58.90	107.99	1.14
SCReAM	5	0.22	108.73	0.72
Sprout	5	0.59	108.01	0.61
TaoVA-100x	5	208.89	108.62	0.80
TCP Vegas	5	423.59	123.59	0.84
Verus	5	135.41	246.93	14.43
PCC-Vivace	5	313.75	132.81	0.92
WebRTC media	4	0.50	108.37	0.23

Run 1: Statistics of TCP BBR

Start at: 2019-08-26 16:21:41

End at: 2019-08-26 16:22:11

Local clock offset: 20.06 ms

Remote clock offset: 16.599 ms

Below is generated by plot.py at 2019-08-26 19:16:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 455.03 Mbit/s

95th percentile per-packet one-way delay: 228.798 ms

Loss rate: 3.53%

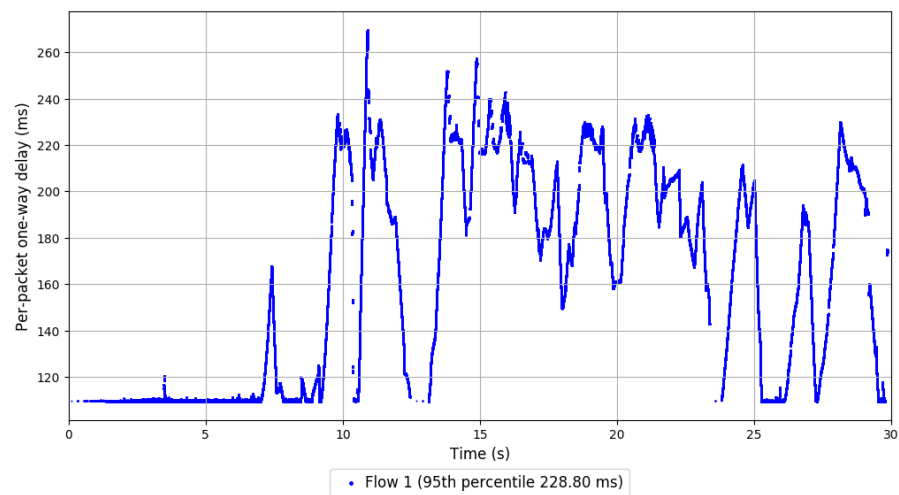
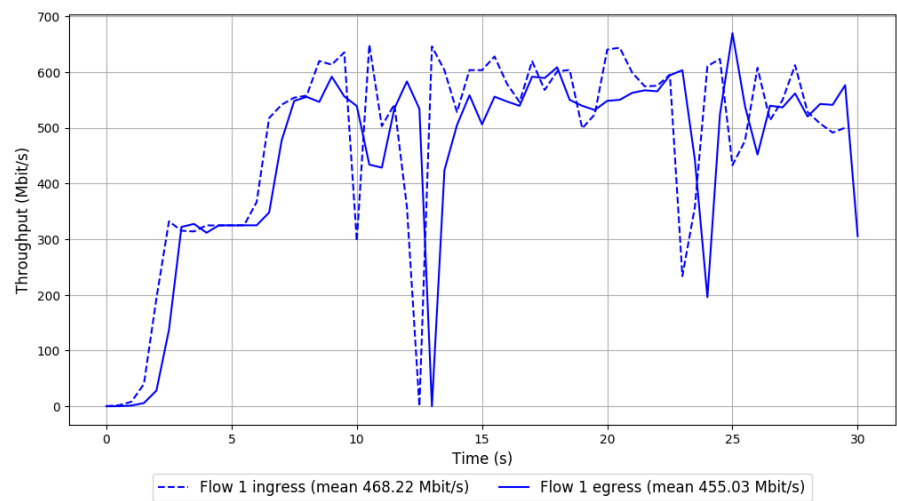
-- Flow 1:

Average throughput: 455.03 Mbit/s

95th percentile per-packet one-way delay: 228.798 ms

Loss rate: 3.53%

Run 1: Report of TCP BBR — Data Link

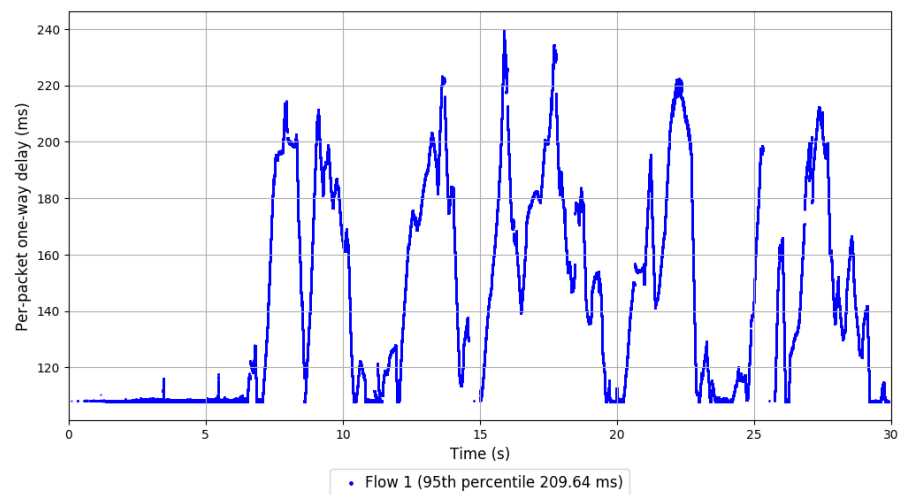
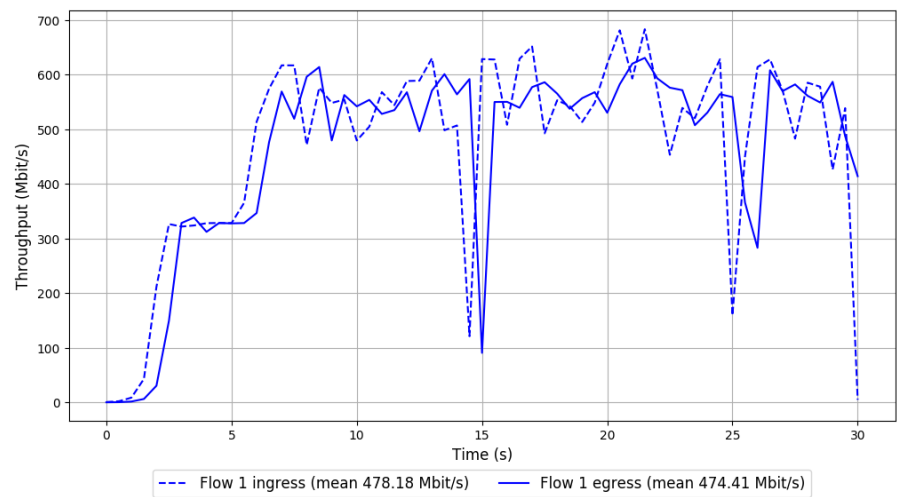


Run 2: Statistics of TCP BBR

Start at: 2019-08-26 16:57:46
End at: 2019-08-26 16:58:16
Local clock offset: 36.384 ms
Remote clock offset: 29.828 ms

Below is generated by plot.py at 2019-08-26 19:16:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 474.41 Mbit/s
95th percentile per-packet one-way delay: 209.642 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 474.41 Mbit/s
95th percentile per-packet one-way delay: 209.642 ms
Loss rate: 1.51%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-08-26 17:34:12

End at: 2019-08-26 17:34:42

Local clock offset: 19.555 ms

Remote clock offset: 7.987 ms

Below is generated by plot.py at 2019-08-26 19:16:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 473.22 Mbit/s

95th percentile per-packet one-way delay: 217.768 ms

Loss rate: 2.84%

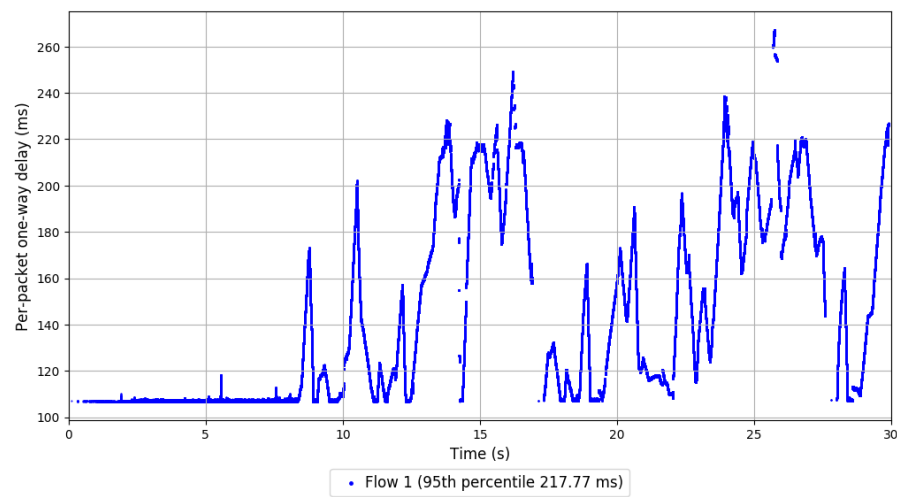
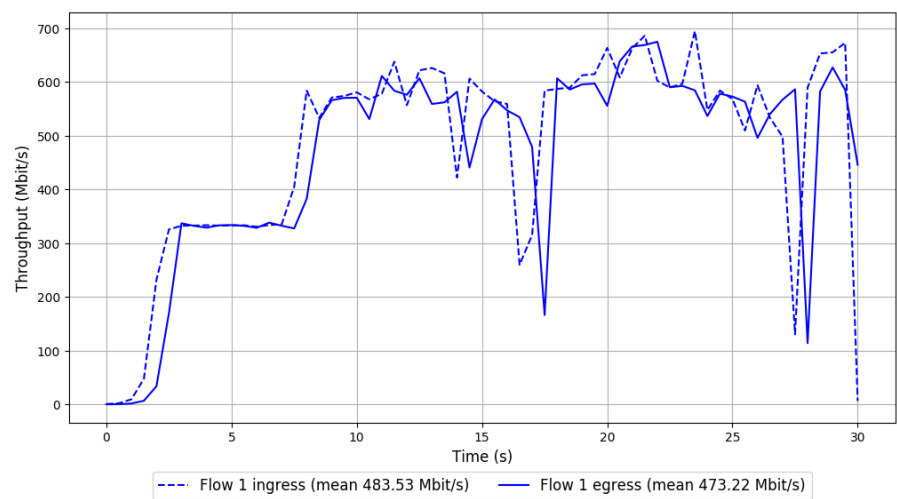
-- Flow 1:

Average throughput: 473.22 Mbit/s

95th percentile per-packet one-way delay: 217.768 ms

Loss rate: 2.84%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-08-26 18:10:44

End at: 2019-08-26 18:11:14

Local clock offset: 7.629 ms

Remote clock offset: 2.351 ms

Below is generated by plot.py at 2019-08-26 19:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 490.52 Mbit/s

95th percentile per-packet one-way delay: 225.577 ms

Loss rate: 2.91%

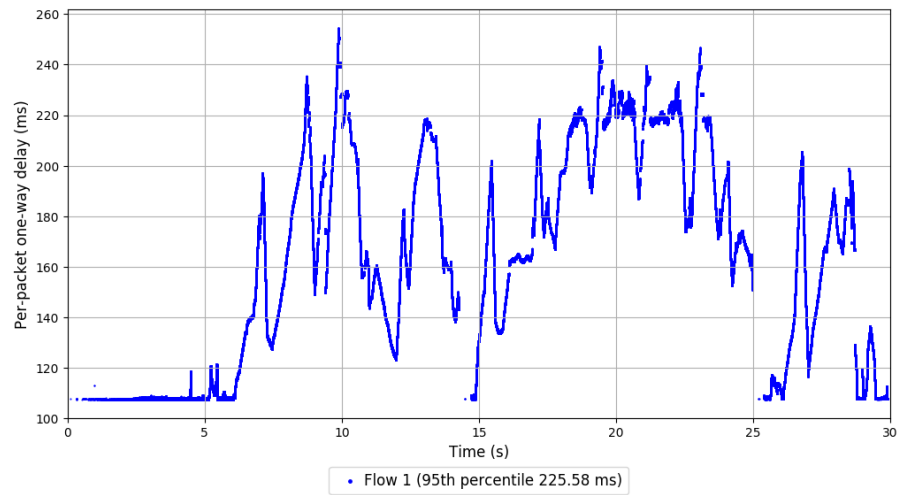
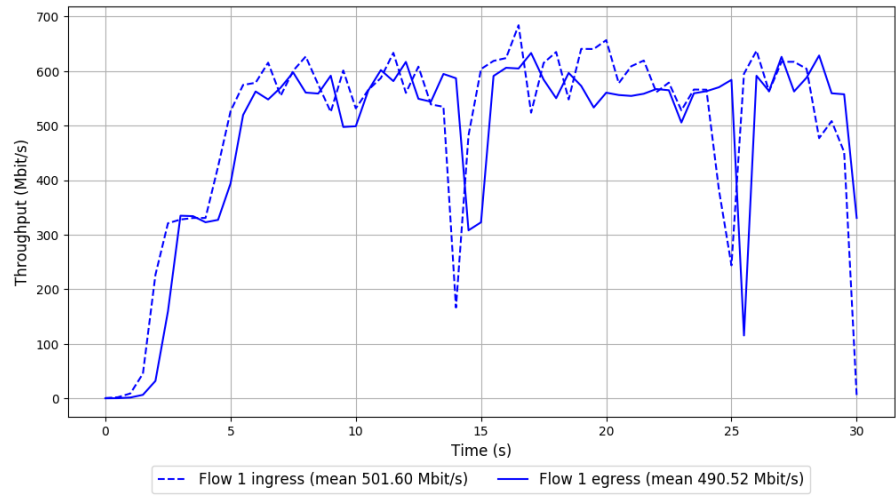
-- Flow 1:

Average throughput: 490.52 Mbit/s

95th percentile per-packet one-way delay: 225.577 ms

Loss rate: 2.91%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-08-26 18:47:15

End at: 2019-08-26 18:47:45

Local clock offset: 1.486 ms

Remote clock offset: 0.934 ms

Below is generated by plot.py at 2019-08-26 19:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.90 Mbit/s

95th percentile per-packet one-way delay: 214.844 ms

Loss rate: 1.88%

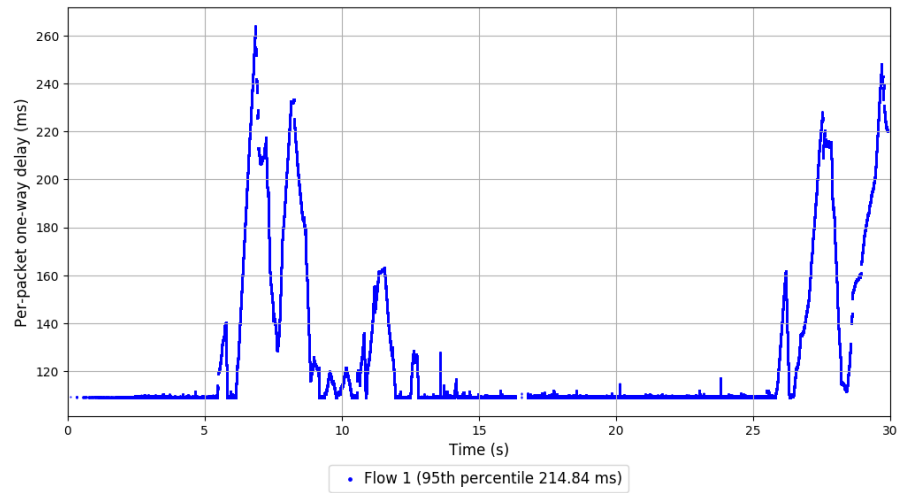
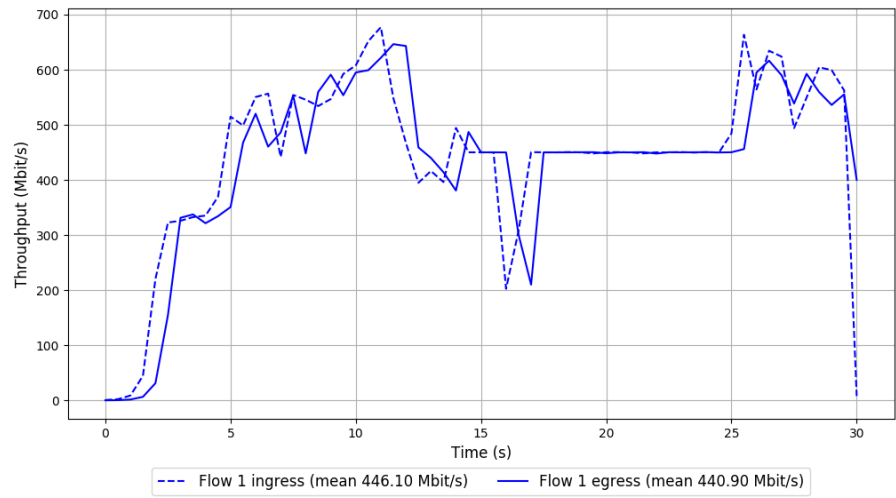
-- Flow 1:

Average throughput: 440.90 Mbit/s

95th percentile per-packet one-way delay: 214.844 ms

Loss rate: 1.88%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-08-26 15:58:33

End at: 2019-08-26 15:59:04

Local clock offset: 7.037 ms

Remote clock offset: 5.995 ms

Below is generated by plot.py at 2019-08-26 19:17:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.25 Mbit/s

95th percentile per-packet one-way delay: 154.558 ms

Loss rate: 0.81%

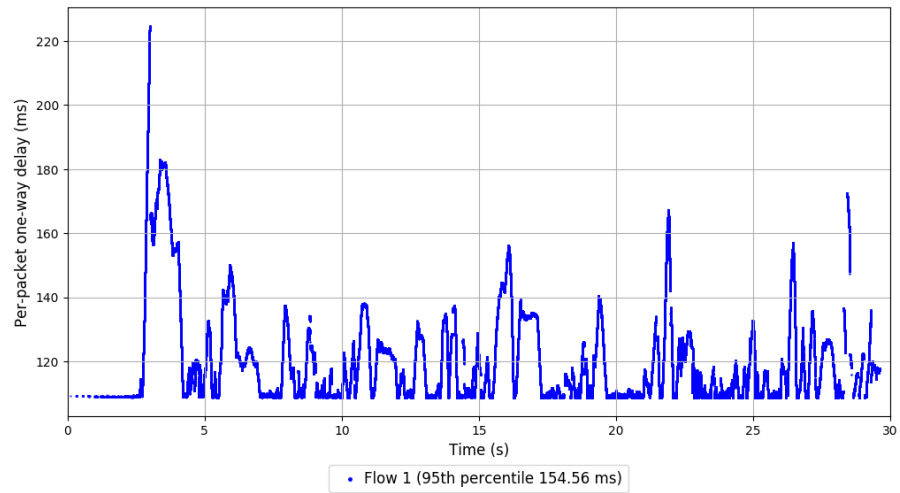
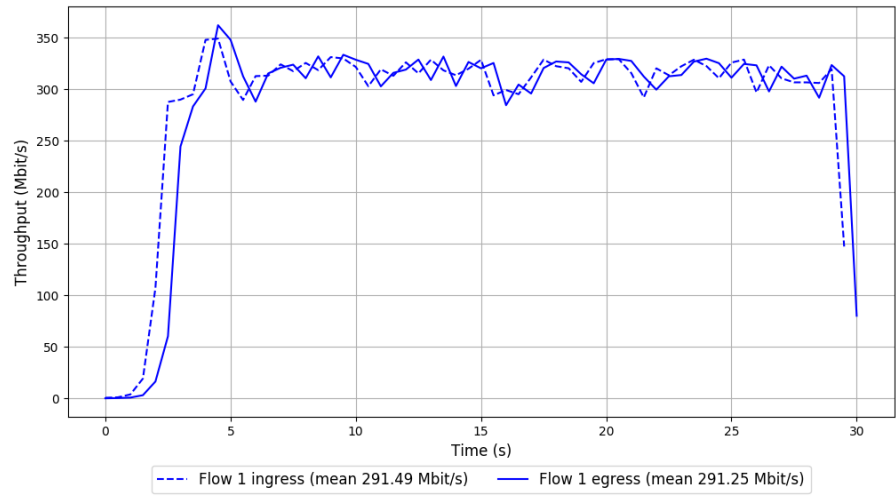
-- Flow 1:

Average throughput: 291.25 Mbit/s

95th percentile per-packet one-way delay: 154.558 ms

Loss rate: 0.81%

Run 1: Report of Copa — Data Link

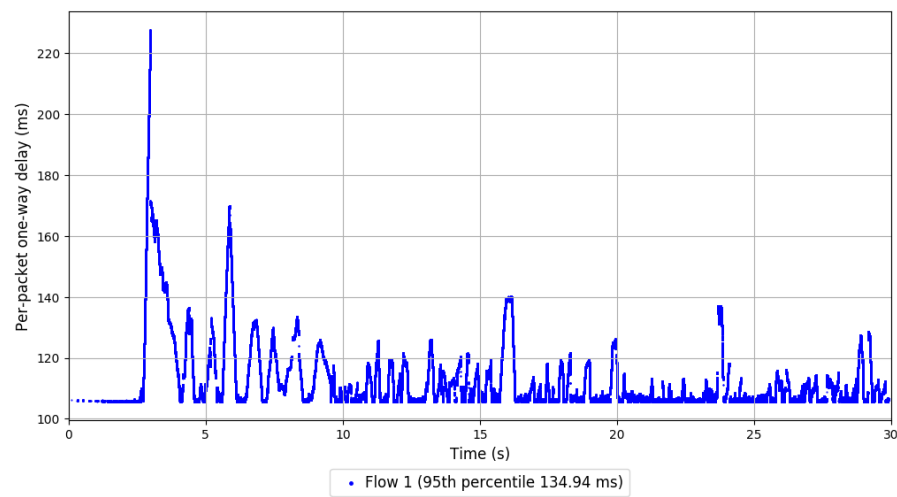
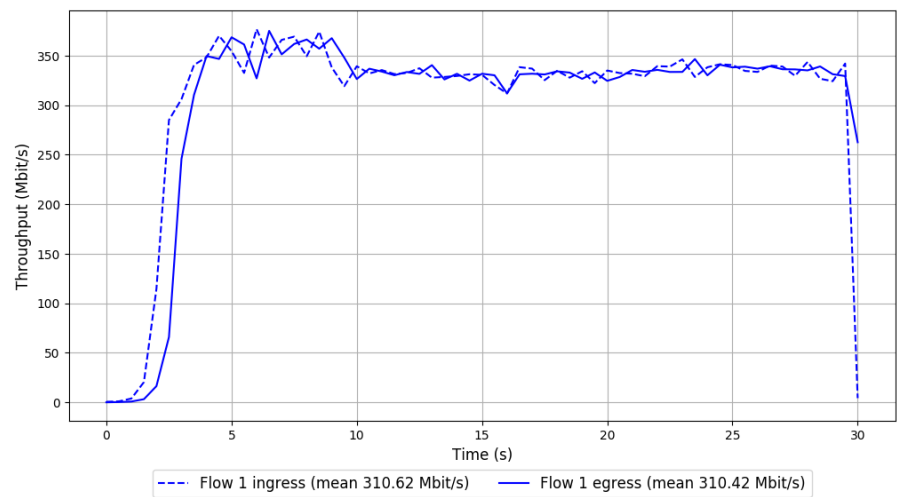


Run 2: Statistics of Copa

Start at: 2019-08-26 16:34:45
End at: 2019-08-26 16:35:15
Local clock offset: 19.028 ms
Remote clock offset: 15.612 ms

Below is generated by plot.py at 2019-08-26 19:17:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 310.42 Mbit/s
95th percentile per-packet one-way delay: 134.935 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 310.42 Mbit/s
95th percentile per-packet one-way delay: 134.935 ms
Loss rate: 0.79%

Run 2: Report of Copa — Data Link

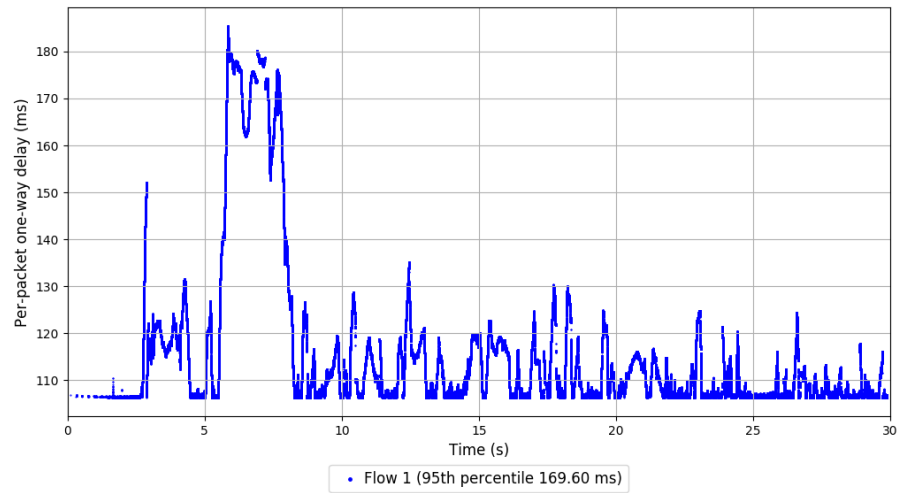
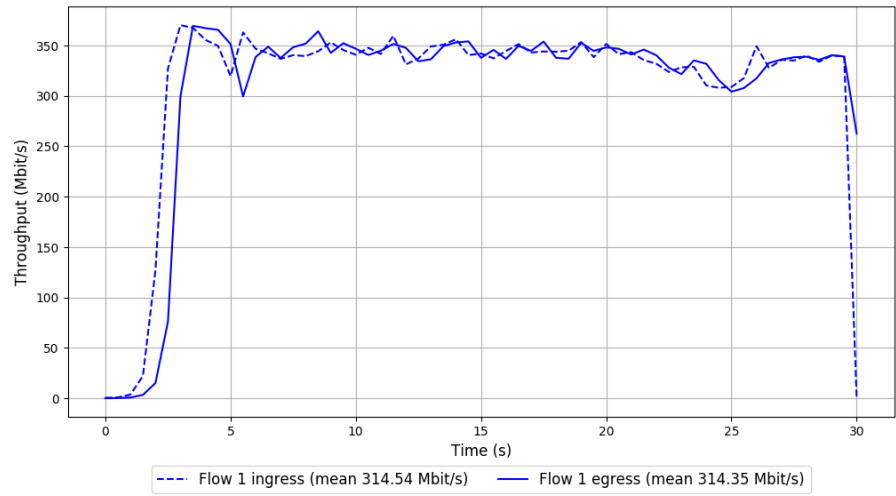


Run 3: Statistics of Copa

Start at: 2019-08-26 17:10:51
End at: 2019-08-26 17:11:21
Local clock offset: 17.313 ms
Remote clock offset: 11.263 ms

Below is generated by plot.py at 2019-08-26 19:17:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 314.35 Mbit/s
95th percentile per-packet one-way delay: 169.604 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 314.35 Mbit/s
95th percentile per-packet one-way delay: 169.604 ms
Loss rate: 0.77%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-08-26 17:47:22

End at: 2019-08-26 17:47:52

Local clock offset: 7.721 ms

Remote clock offset: 2.943 ms

Below is generated by plot.py at 2019-08-26 19:25:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 306.88 Mbit/s

95th percentile per-packet one-way delay: 124.698 ms

Loss rate: 0.78%

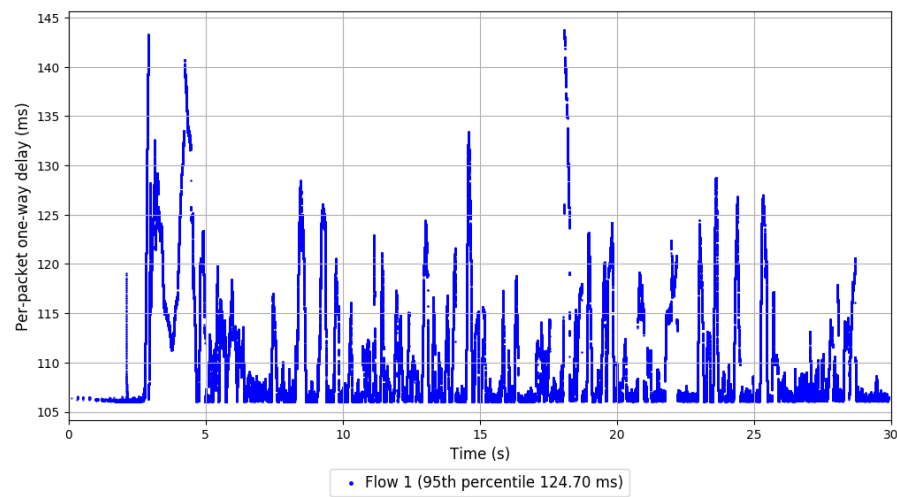
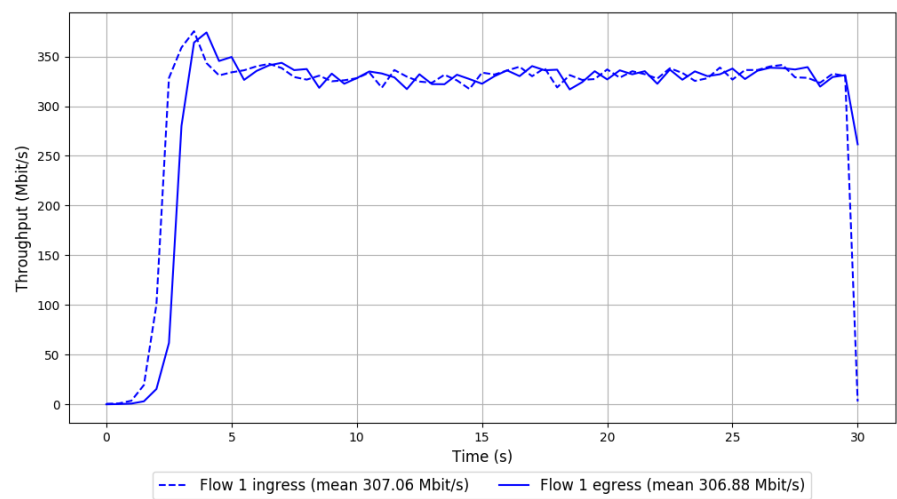
-- Flow 1:

Average throughput: 306.88 Mbit/s

95th percentile per-packet one-way delay: 124.698 ms

Loss rate: 0.78%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-08-26 18:23:52

End at: 2019-08-26 18:24:22

Local clock offset: 2.434 ms

Remote clock offset: 1.221 ms

Below is generated by plot.py at 2019-08-26 19:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.46 Mbit/s

95th percentile per-packet one-way delay: 128.284 ms

Loss rate: 0.78%

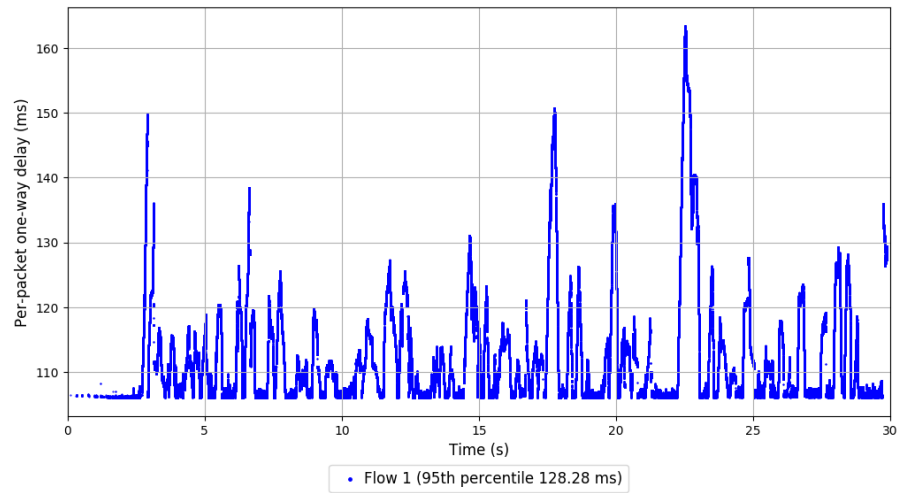
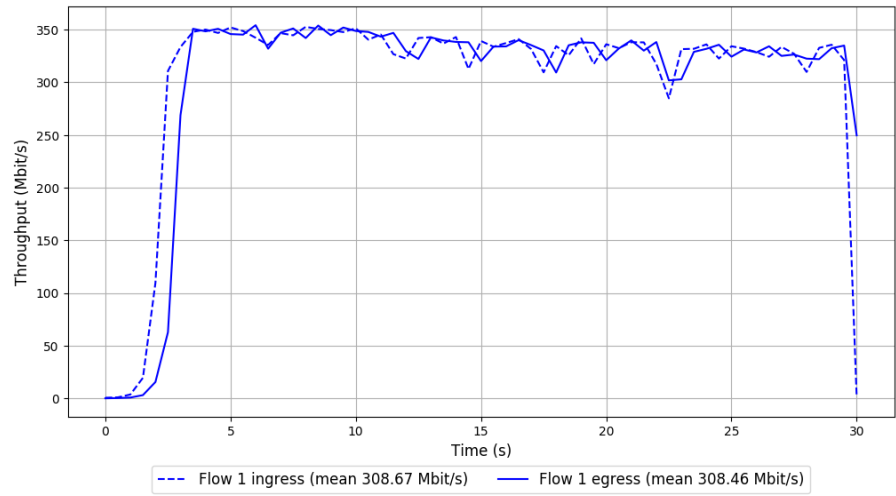
-- Flow 1:

Average throughput: 308.46 Mbit/s

95th percentile per-packet one-way delay: 128.284 ms

Loss rate: 0.78%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-08-26 16:04:15

End at: 2019-08-26 16:04:45

Local clock offset: 9.255 ms

Remote clock offset: 7.717 ms

Below is generated by plot.py at 2019-08-26 19:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 441.89 Mbit/s

95th percentile per-packet one-way delay: 160.551 ms

Loss rate: 0.75%

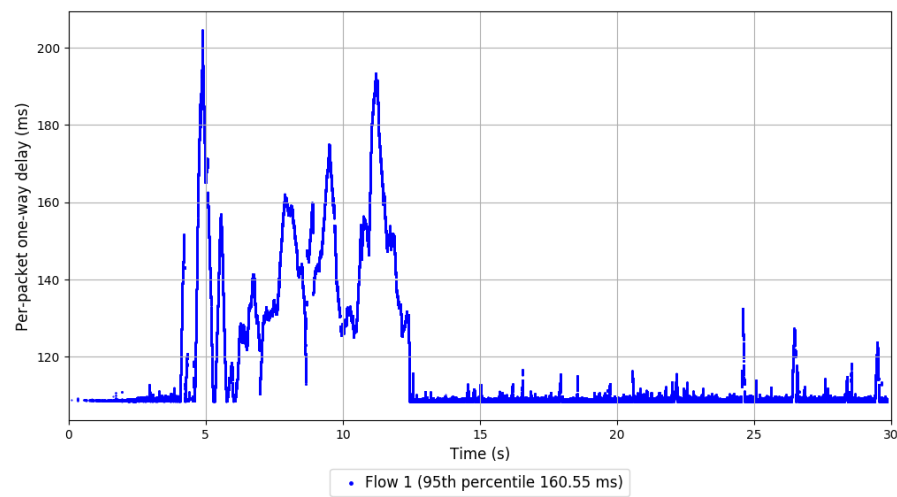
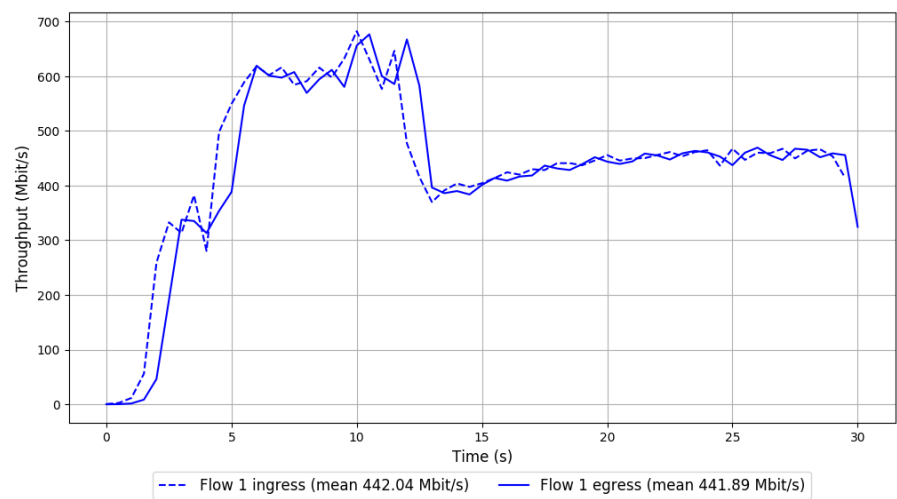
-- Flow 1:

Average throughput: 441.89 Mbit/s

95th percentile per-packet one-way delay: 160.551 ms

Loss rate: 0.75%

Run 1: Report of TCP Cubic — Data Link

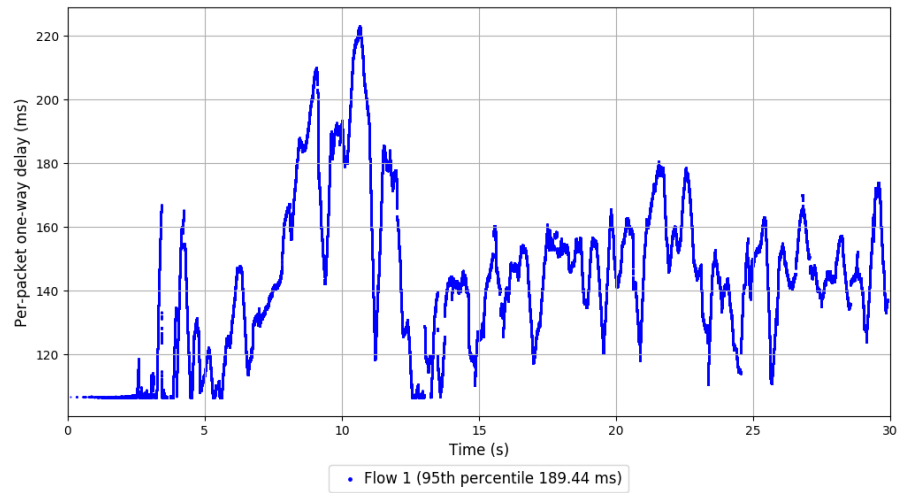
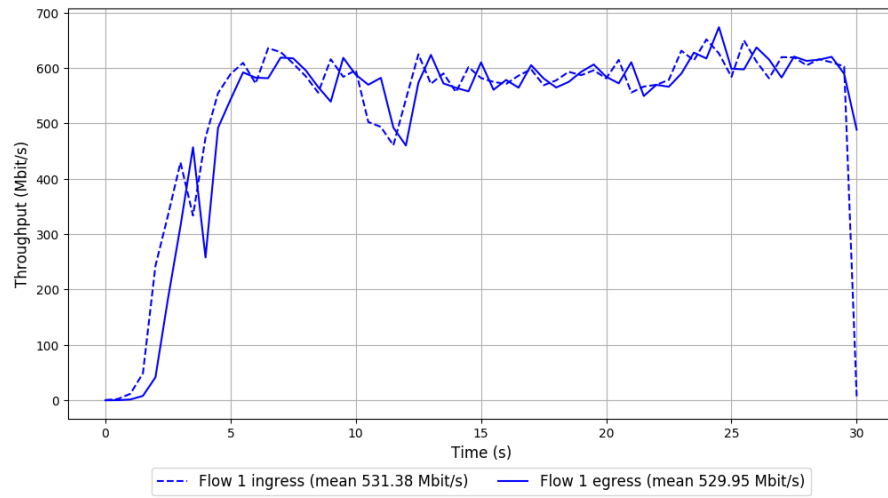


Run 2: Statistics of TCP Cubic

Start at: 2019-08-26 16:40:29
End at: 2019-08-26 16:40:59
Local clock offset: 20.893 ms
Remote clock offset: 17.051 ms

Below is generated by plot.py at 2019-08-26 19:25:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 529.95 Mbit/s
95th percentile per-packet one-way delay: 189.440 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 529.95 Mbit/s
95th percentile per-packet one-way delay: 189.440 ms
Loss rate: 0.98%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-08-26 17:16:36

End at: 2019-08-26 17:17:06

Local clock offset: 14.933 ms

Remote clock offset: 8.099 ms

Below is generated by plot.py at 2019-08-26 19:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 480.84 Mbit/s

95th percentile per-packet one-way delay: 200.119 ms

Loss rate: 0.95%

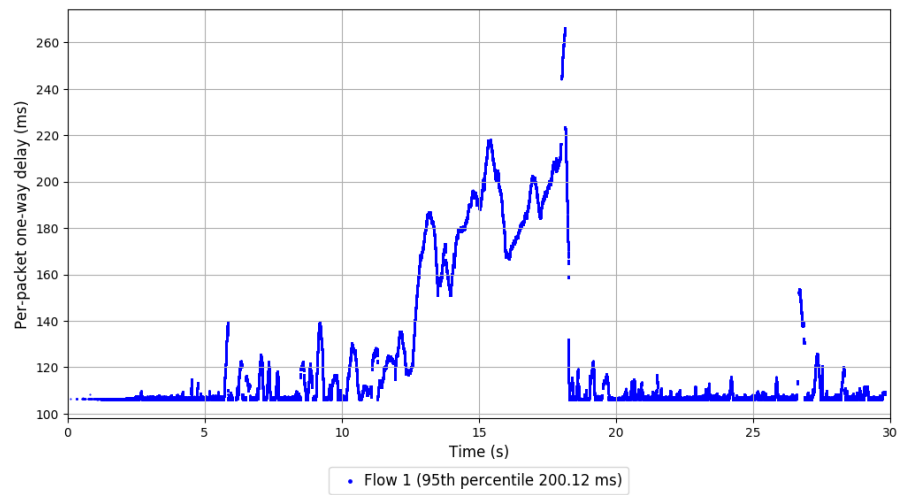
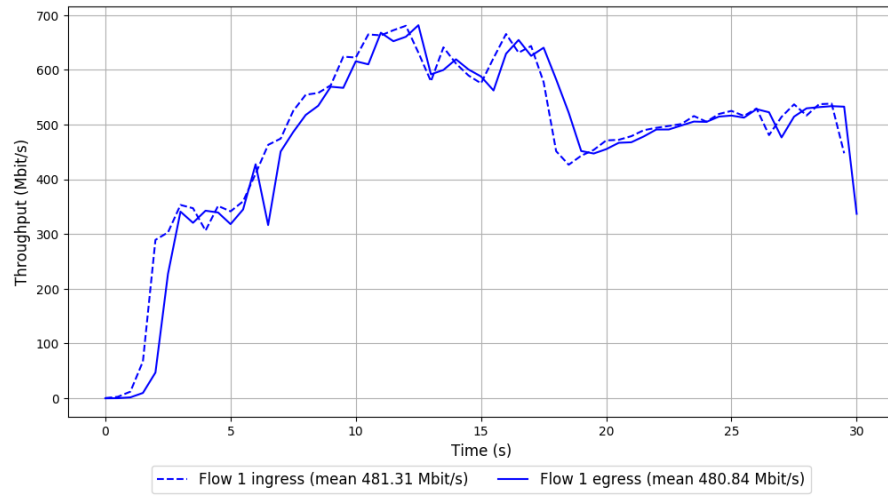
-- Flow 1:

Average throughput: 480.84 Mbit/s

95th percentile per-packet one-way delay: 200.119 ms

Loss rate: 0.95%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-08-26 17:53:07

End at: 2019-08-26 17:53:37

Local clock offset: 7.078 ms

Remote clock offset: 2.688 ms

Below is generated by plot.py at 2019-08-26 19:26:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.50 Mbit/s

95th percentile per-packet one-way delay: 181.491 ms

Loss rate: 1.03%

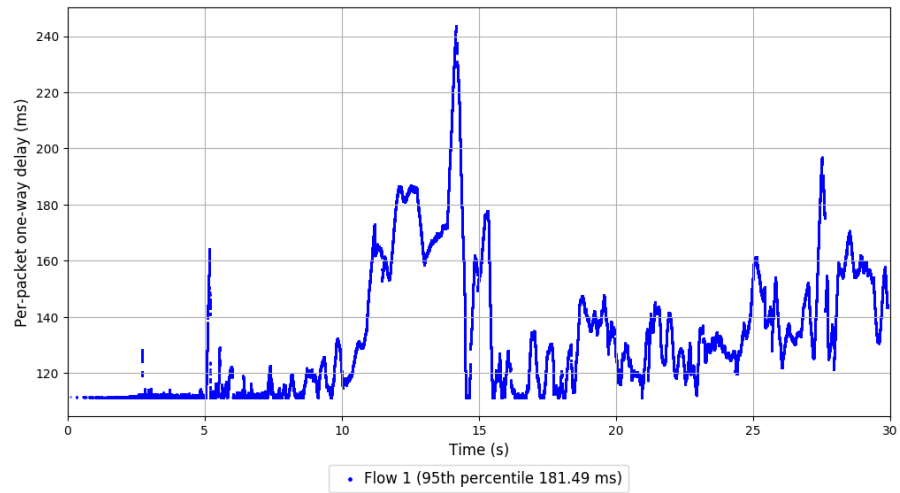
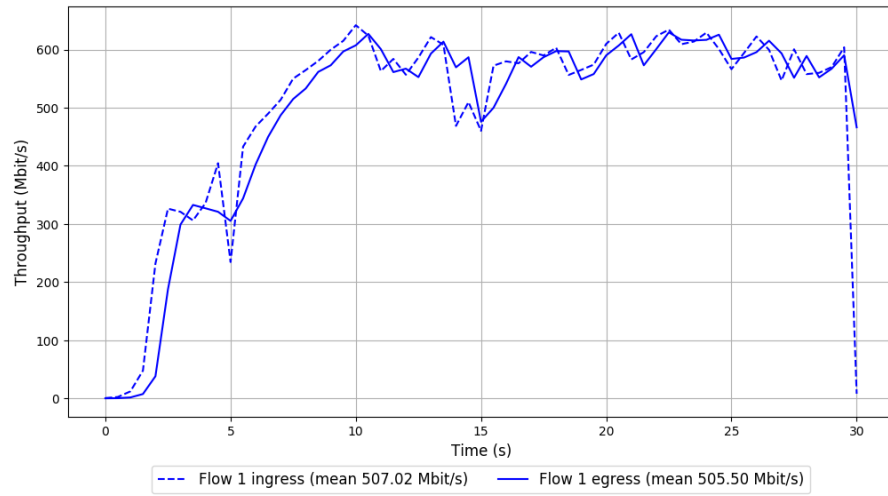
-- Flow 1:

Average throughput: 505.50 Mbit/s

95th percentile per-packet one-way delay: 181.491 ms

Loss rate: 1.03%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-08-26 18:29:38

End at: 2019-08-26 18:30:08

Local clock offset: 2.037 ms

Remote clock offset: 1.112 ms

Below is generated by plot.py at 2019-08-26 19:26:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 480.80 Mbit/s

95th percentile per-packet one-way delay: 171.992 ms

Loss rate: 0.74%

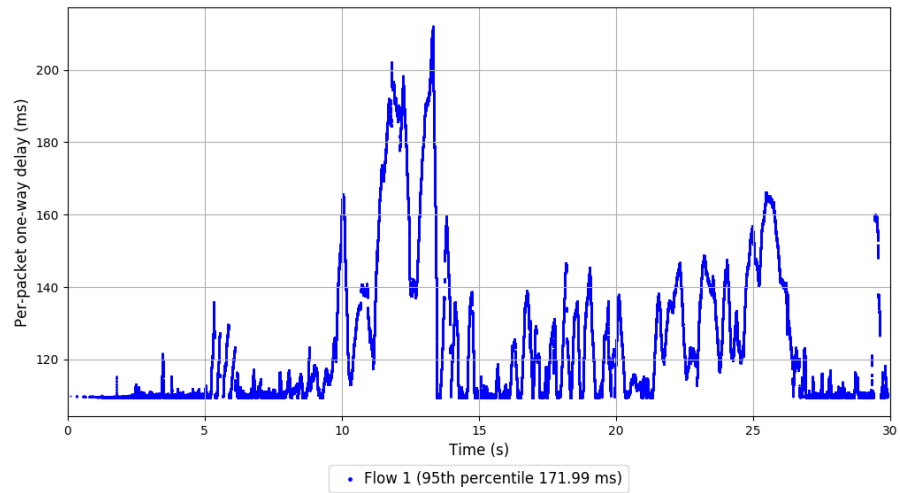
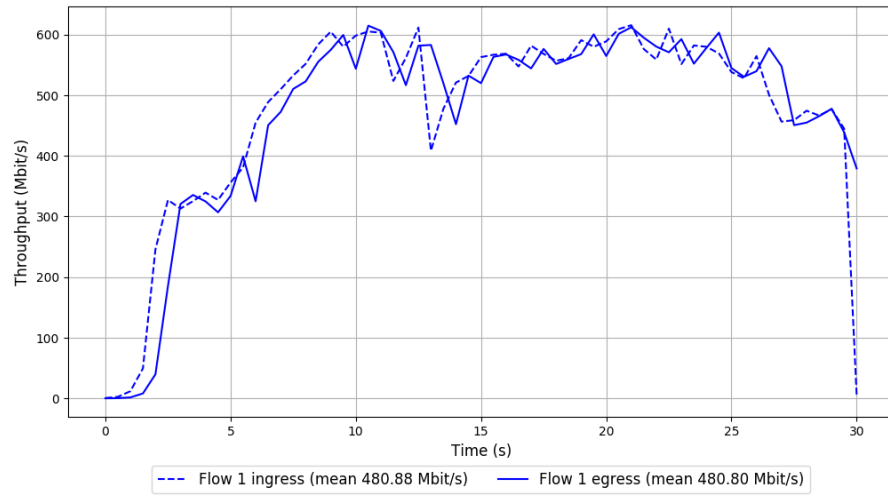
-- Flow 1:

Average throughput: 480.80 Mbit/s

95th percentile per-packet one-way delay: 171.992 ms

Loss rate: 0.74%

Run 5: Report of TCP Cubic — Data Link

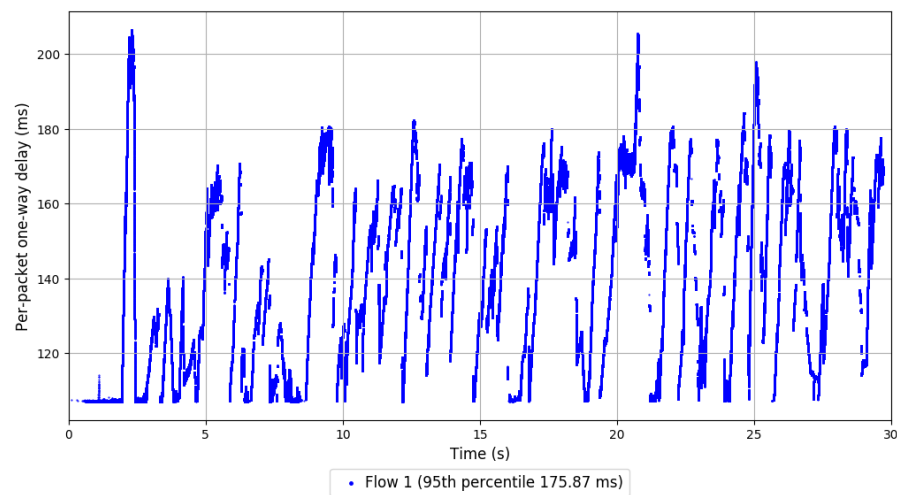
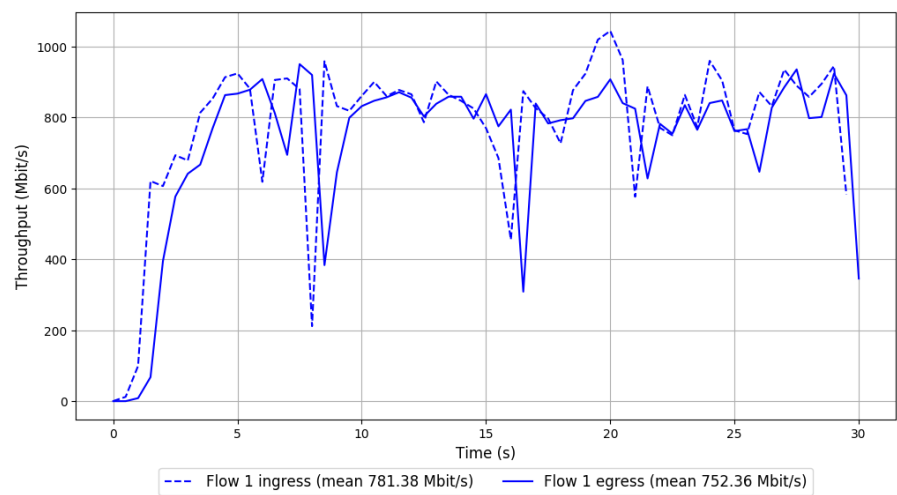


Run 1: Statistics of FillP

Start at: 2019-08-26 16:09:01
End at: 2019-08-26 16:09:31
Local clock offset: 17.317 ms
Remote clock offset: 13.773 ms

Below is generated by plot.py at 2019-08-26 19:32:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 752.36 Mbit/s
95th percentile per-packet one-way delay: 175.870 ms
Loss rate: 4.41%
-- Flow 1:
Average throughput: 752.36 Mbit/s
95th percentile per-packet one-way delay: 175.870 ms
Loss rate: 4.41%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-08-26 16:45:22

End at: 2019-08-26 16:45:52

Local clock offset: 24.471 ms

Remote clock offset: 19.85 ms

Below is generated by plot.py at 2019-08-26 19:41:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 784.47 Mbit/s

95th percentile per-packet one-way delay: 172.625 ms

Loss rate: 2.72%

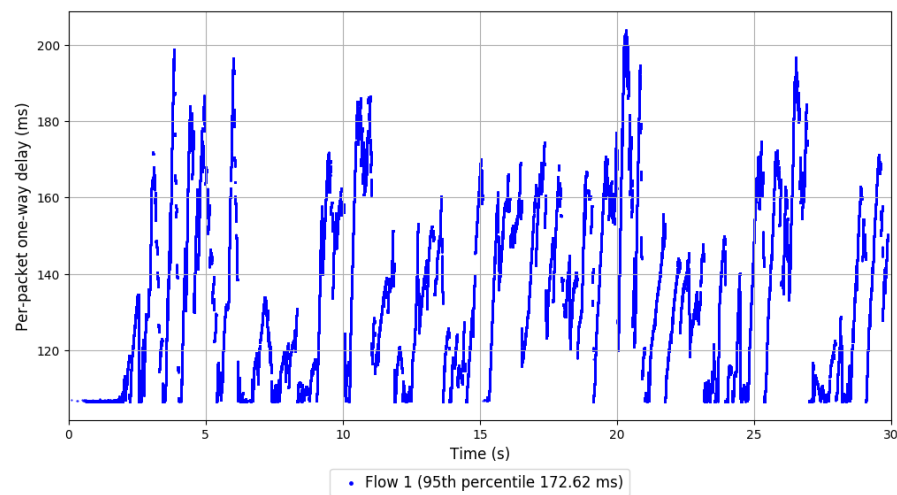
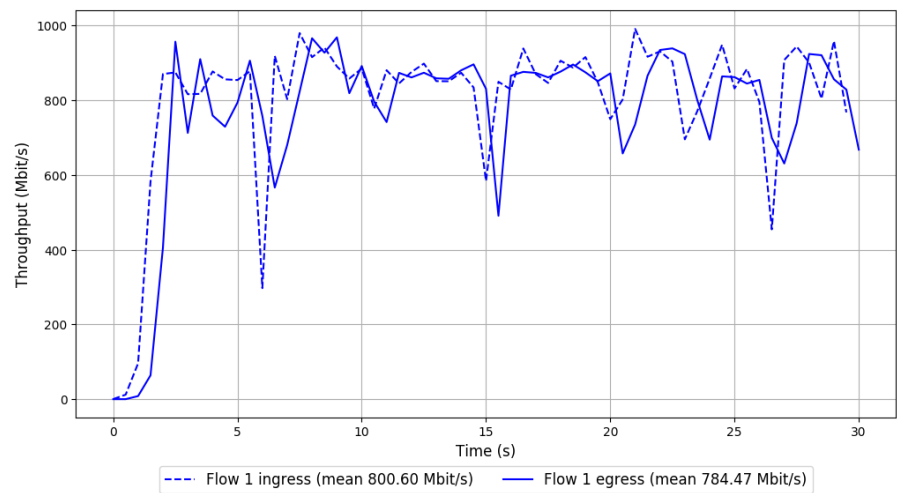
-- Flow 1:

Average throughput: 784.47 Mbit/s

95th percentile per-packet one-way delay: 172.625 ms

Loss rate: 2.72%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-08-26 17:21:29

End at: 2019-08-26 17:22:00

Local clock offset: 14.339 ms

Remote clock offset: 7.176 ms

Below is generated by plot.py at 2019-08-26 19:42:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 785.99 Mbit/s

95th percentile per-packet one-way delay: 172.007 ms

Loss rate: 2.30%

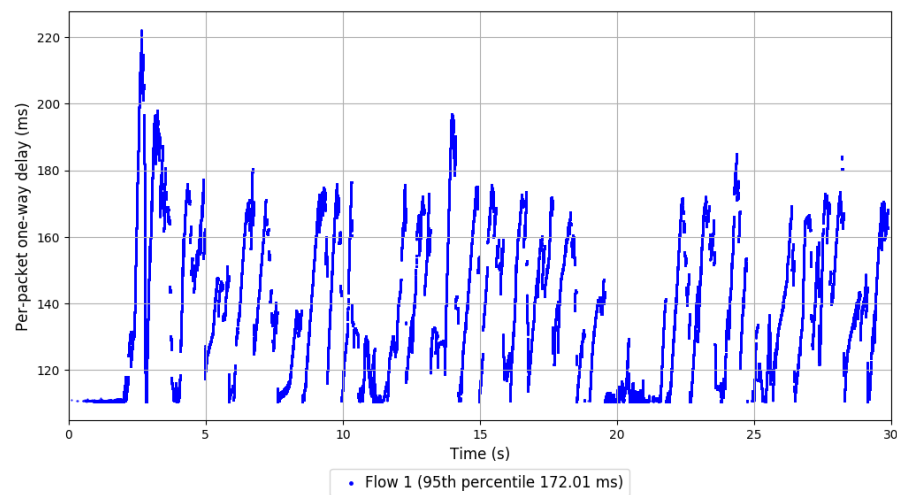
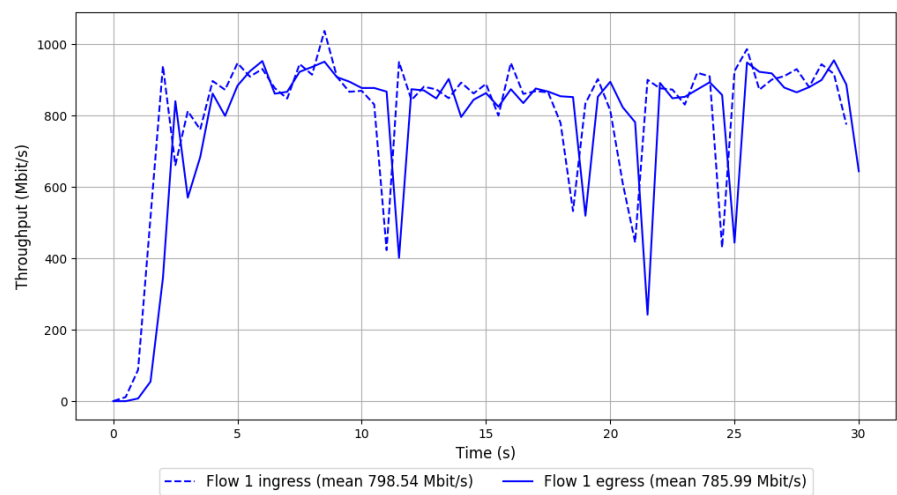
-- Flow 1:

Average throughput: 785.99 Mbit/s

95th percentile per-packet one-way delay: 172.007 ms

Loss rate: 2.30%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-08-26 17:57:57

End at: 2019-08-26 17:58:27

Local clock offset: 7.508 ms

Remote clock offset: 2.774 ms

Below is generated by plot.py at 2019-08-26 19:42:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 766.48 Mbit/s

95th percentile per-packet one-way delay: 165.169 ms

Loss rate: 2.02%

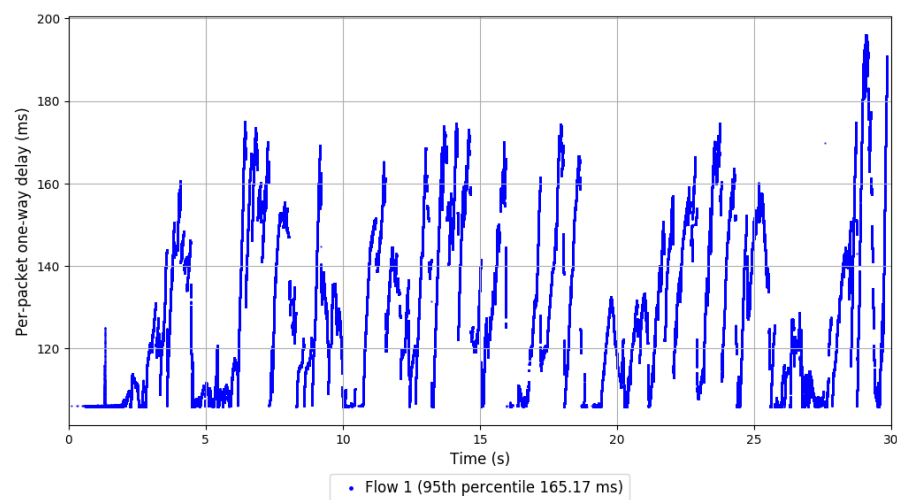
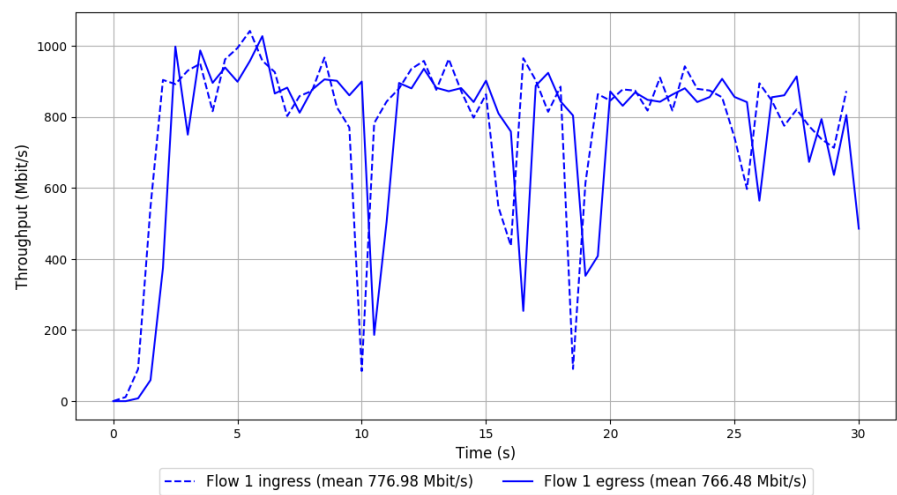
-- Flow 1:

Average throughput: 766.48 Mbit/s

95th percentile per-packet one-way delay: 165.169 ms

Loss rate: 2.02%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-08-26 18:34:29

End at: 2019-08-26 18:34:59

Local clock offset: 1.809 ms

Remote clock offset: 1.241 ms

Below is generated by plot.py at 2019-08-26 19:42:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 758.28 Mbit/s

95th percentile per-packet one-way delay: 175.664 ms

Loss rate: 2.11%

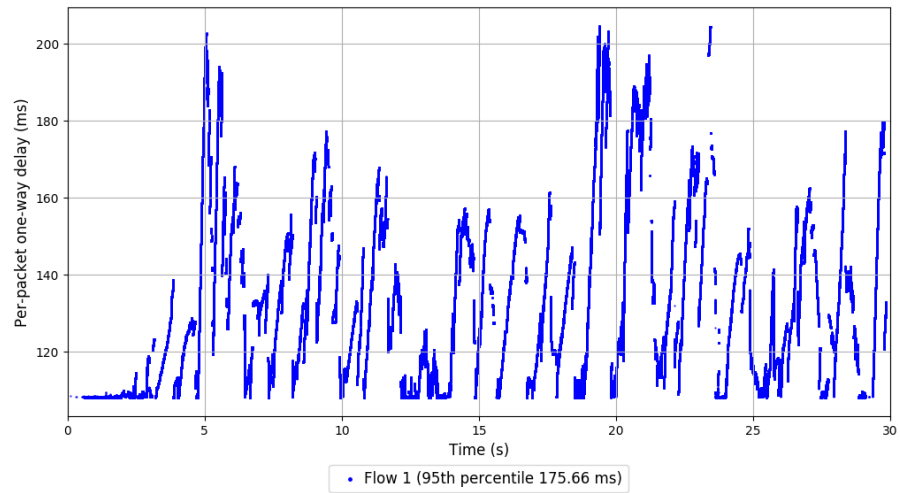
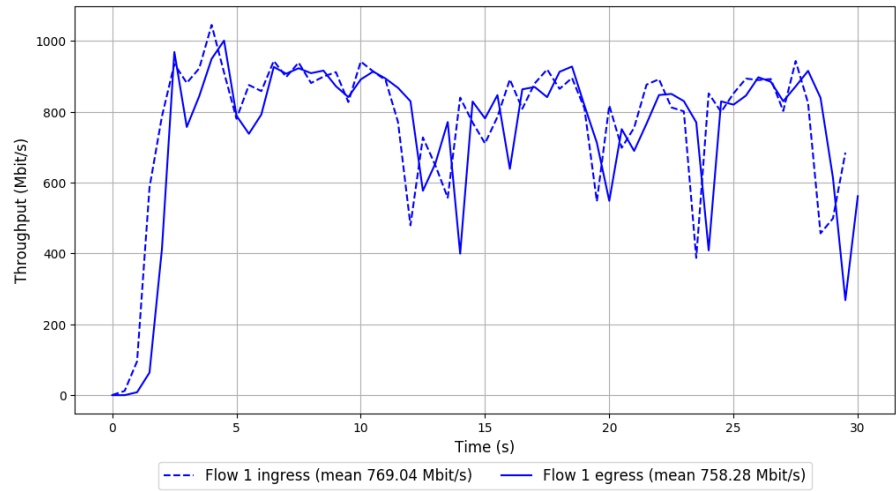
-- Flow 1:

Average throughput: 758.28 Mbit/s

95th percentile per-packet one-way delay: 175.664 ms

Loss rate: 2.11%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-08-26 16:02:33

End at: 2019-08-26 16:03:03

Local clock offset: 8.566 ms

Remote clock offset: 6.991 ms

Below is generated by plot.py at 2019-08-26 19:42:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 734.70 Mbit/s

95th percentile per-packet one-way delay: 179.428 ms

Loss rate: 3.58%

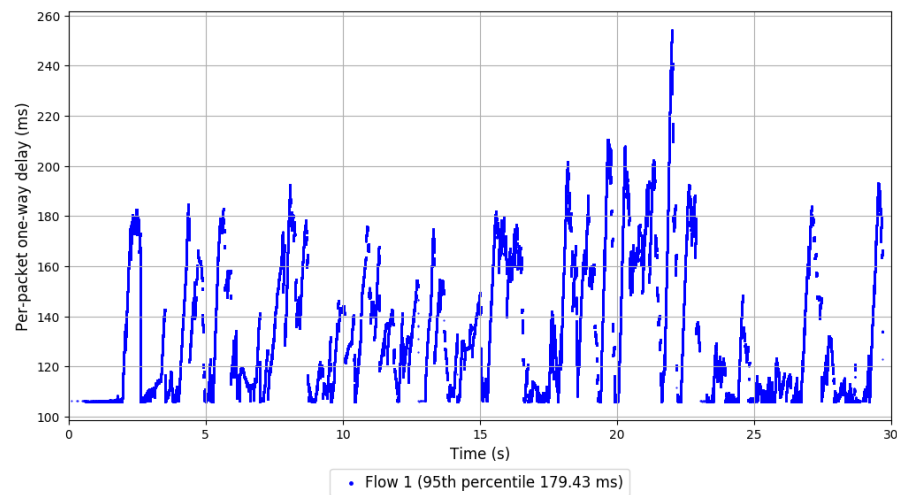
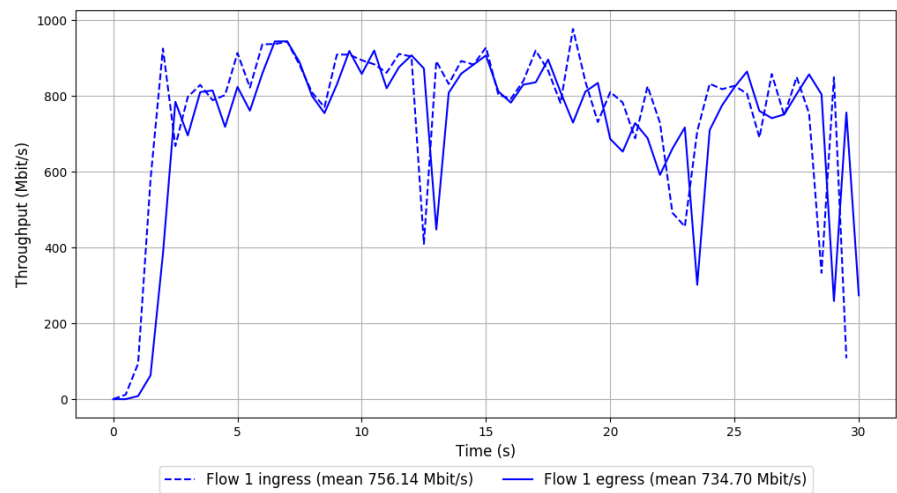
-- Flow 1:

Average throughput: 734.70 Mbit/s

95th percentile per-packet one-way delay: 179.428 ms

Loss rate: 3.58%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-08-26 16:38:44

End at: 2019-08-26 16:39:14

Local clock offset: 20.149 ms

Remote clock offset: 16.12 ms

Below is generated by plot.py at 2019-08-26 19:43:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 799.13 Mbit/s

95th percentile per-packet one-way delay: 169.676 ms

Loss rate: 2.08%

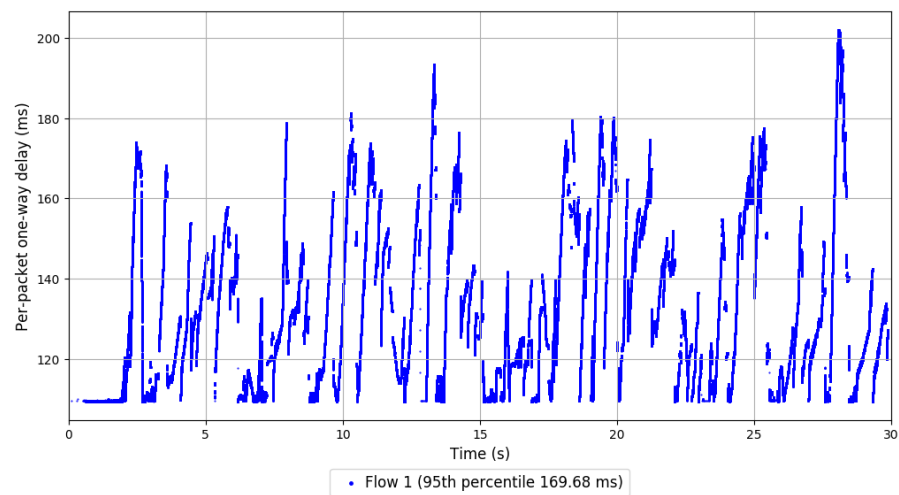
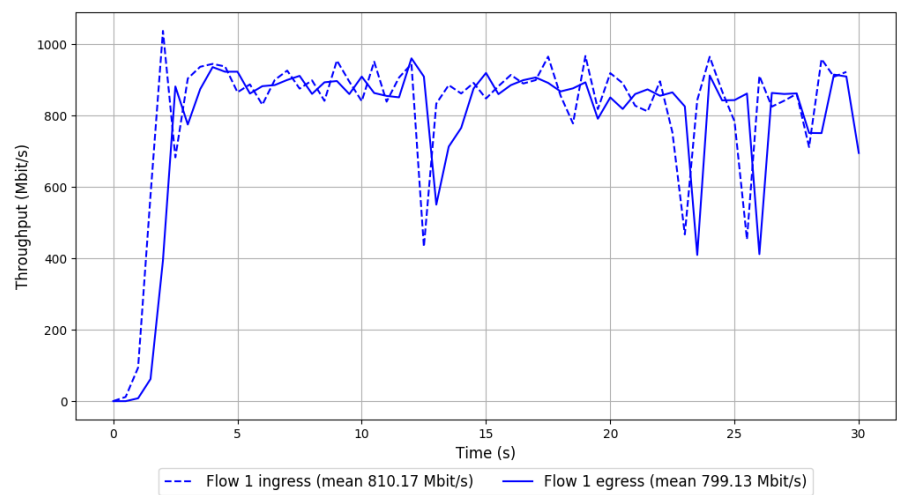
-- Flow 1:

Average throughput: 799.13 Mbit/s

95th percentile per-packet one-way delay: 169.676 ms

Loss rate: 2.08%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-08-26 17:14:51

End at: 2019-08-26 17:15:21

Local clock offset: 15.256 ms

Remote clock offset: 8.694 ms

Below is generated by plot.py at 2019-08-26 19:43:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 820.28 Mbit/s

95th percentile per-packet one-way delay: 157.618 ms

Loss rate: 1.11%

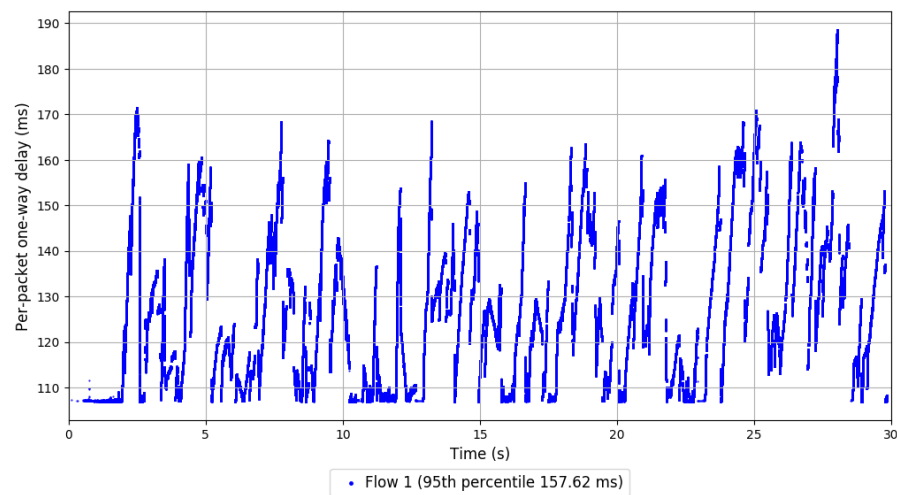
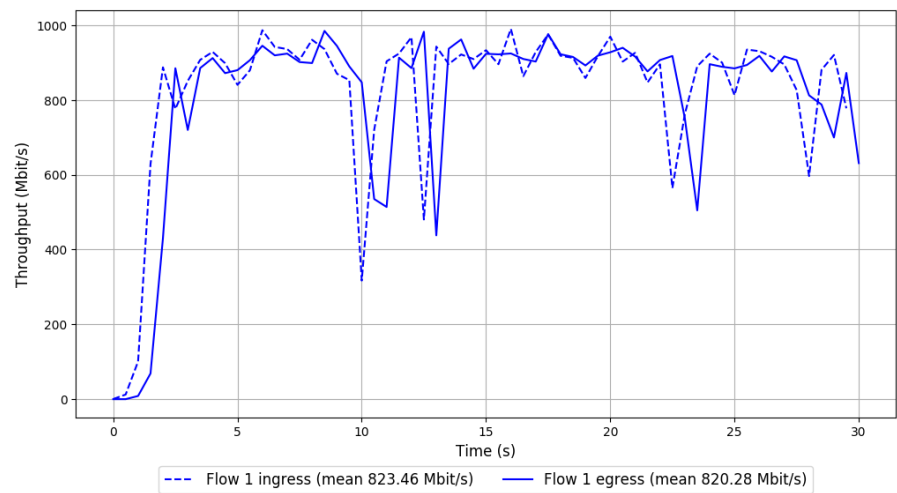
-- Flow 1:

Average throughput: 820.28 Mbit/s

95th percentile per-packet one-way delay: 157.618 ms

Loss rate: 1.11%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-08-26 17:51:22

End at: 2019-08-26 17:51:52

Local clock offset: 7.329 ms

Remote clock offset: 2.729 ms

Below is generated by plot.py at 2019-08-26 19:51:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 792.07 Mbit/s

95th percentile per-packet one-way delay: 167.813 ms

Loss rate: 1.72%

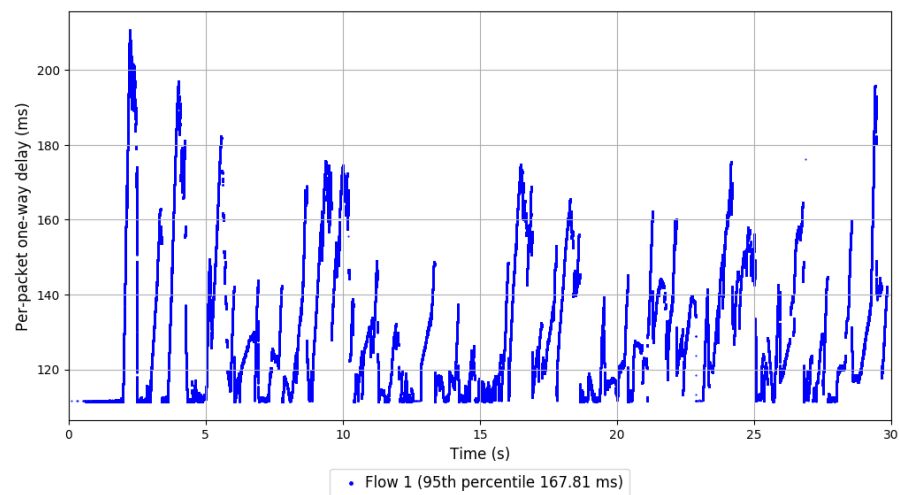
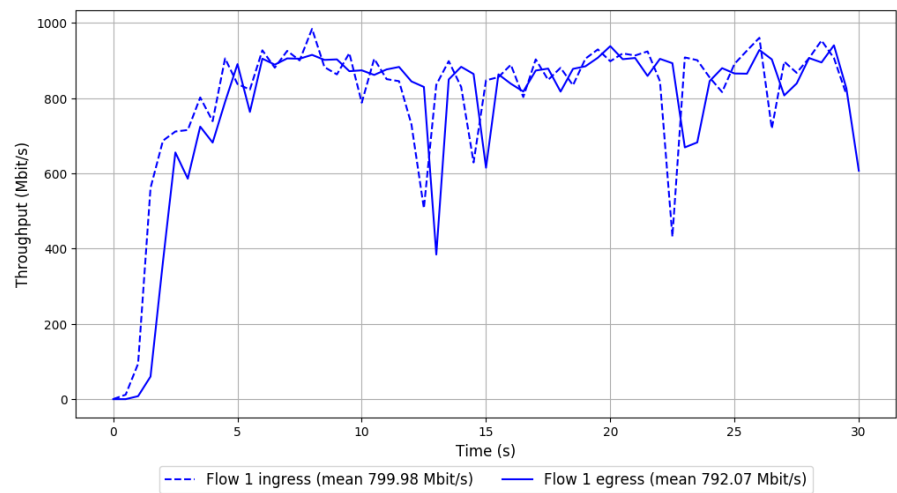
-- Flow 1:

Average throughput: 792.07 Mbit/s

95th percentile per-packet one-way delay: 167.813 ms

Loss rate: 1.72%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-08-26 18:27:52

End at: 2019-08-26 18:28:22

Local clock offset: 1.513 ms

Remote clock offset: 1.135 ms

Below is generated by plot.py at 2019-08-26 19:58:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 800.27 Mbit/s

95th percentile per-packet one-way delay: 165.676 ms

Loss rate: 1.63%

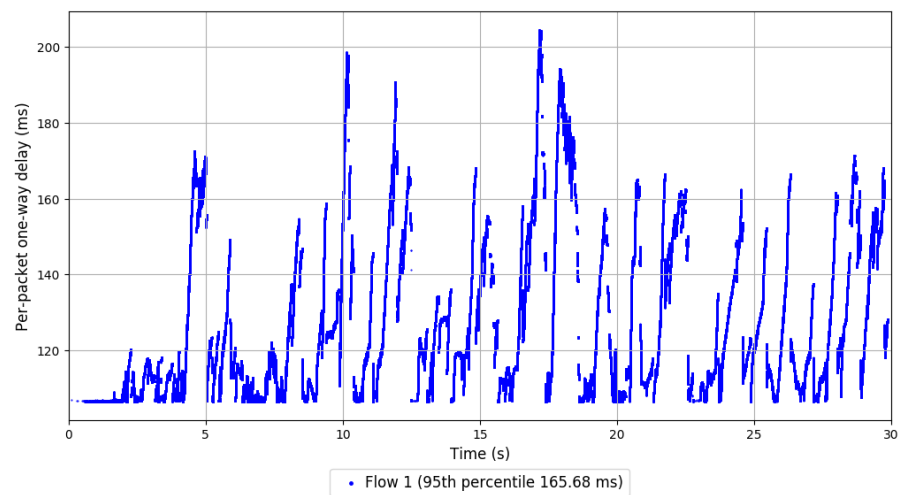
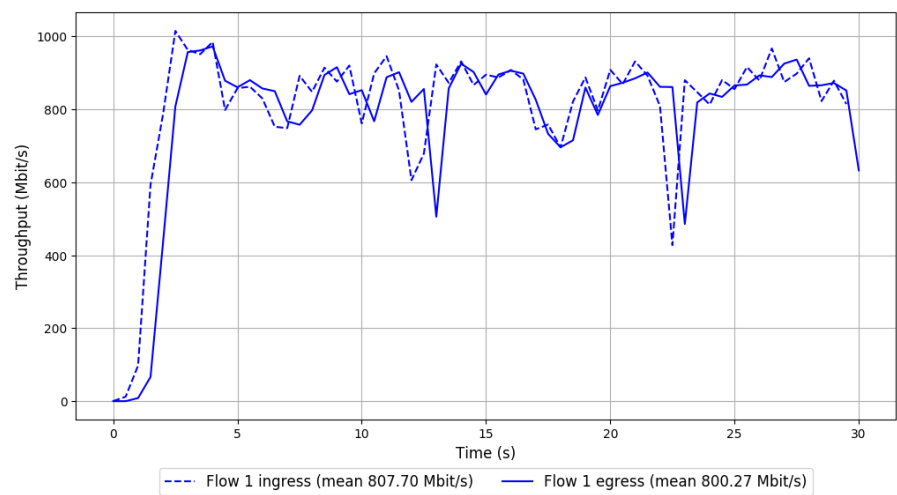
-- Flow 1:

Average throughput: 800.27 Mbit/s

95th percentile per-packet one-way delay: 165.676 ms

Loss rate: 1.63%

Run 5: Report of FillP-Sheep — Data Link

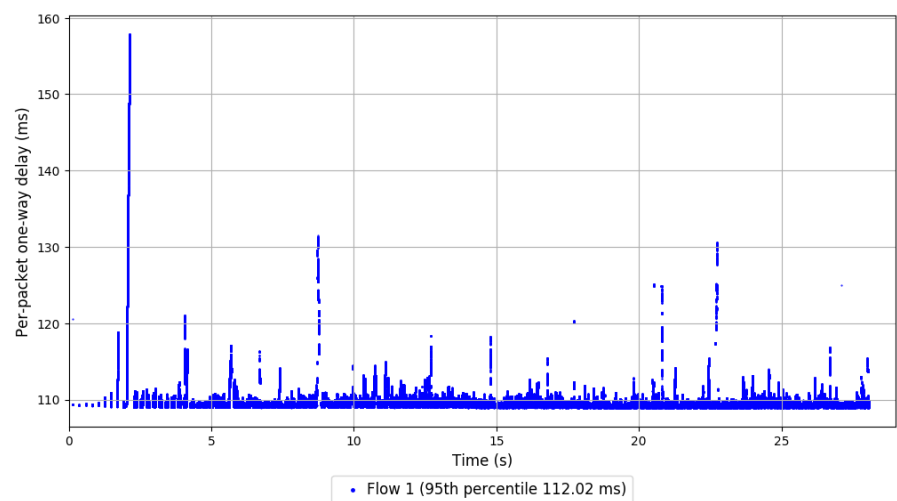
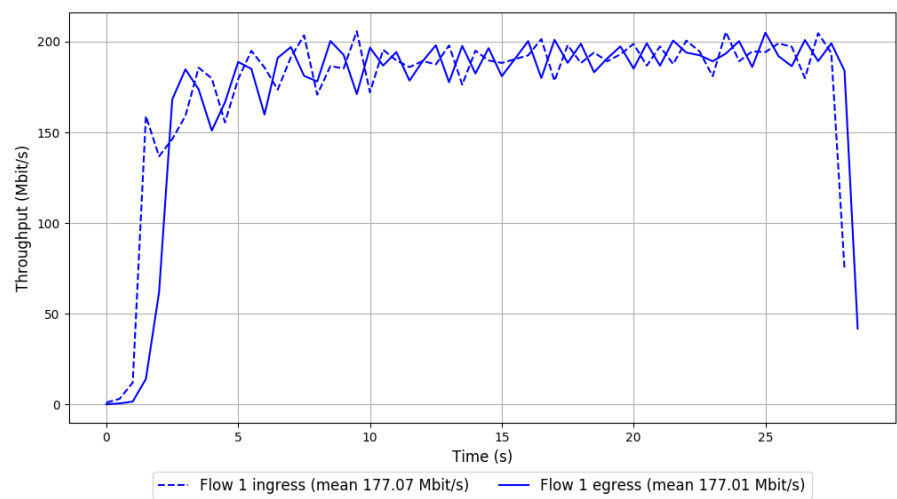


Run 1: Statistics of Indigo

Start at: 2019-08-26 16:18:35
End at: 2019-08-26 16:19:05
Local clock offset: 16.194 ms
Remote clock offset: 13.475 ms

Below is generated by plot.py at 2019-08-26 19:58:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 177.01 Mbit/s
95th percentile per-packet one-way delay: 112.021 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 177.01 Mbit/s
95th percentile per-packet one-way delay: 112.021 ms
Loss rate: 0.85%

Run 1: Report of Indigo — Data Link

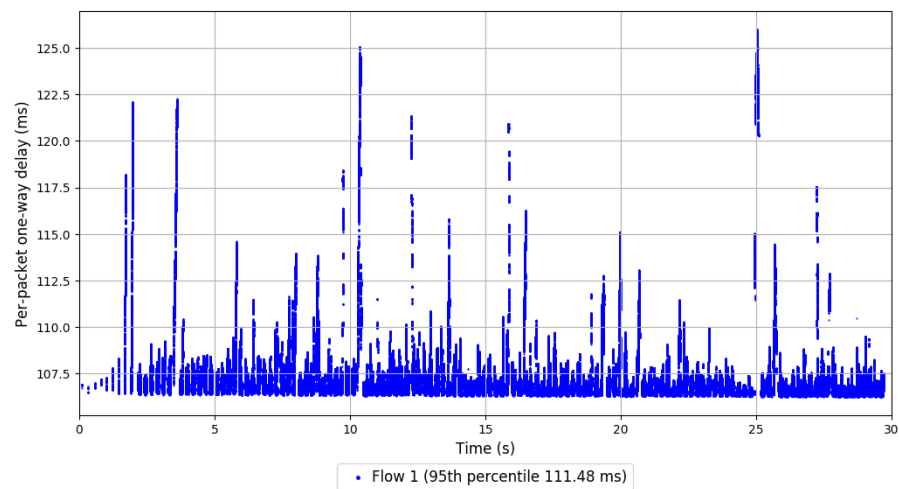
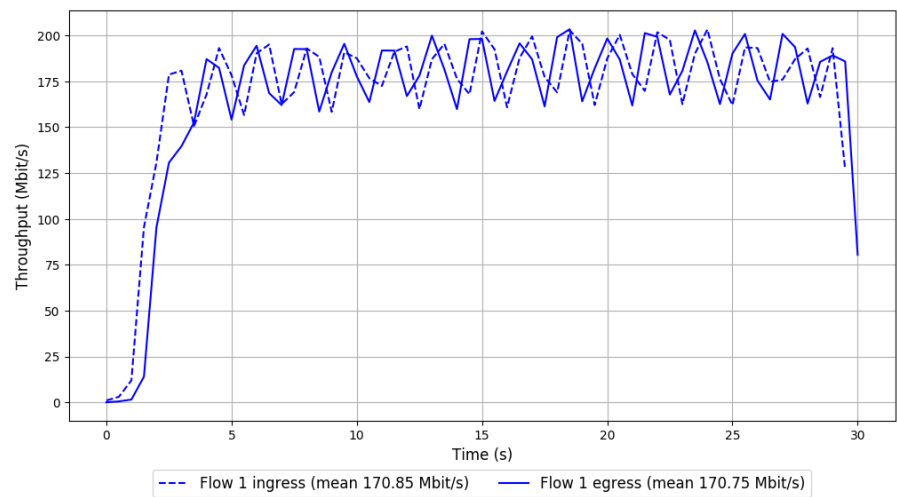


Run 2: Statistics of Indigo

Start at: 2019-08-26 16:54:42
End at: 2019-08-26 16:55:12
Local clock offset: 33.051 ms
Remote clock offset: 27.161 ms

Below is generated by plot.py at 2019-08-26 19:58:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 170.75 Mbit/s
95th percentile per-packet one-way delay: 111.482 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 170.75 Mbit/s
95th percentile per-packet one-way delay: 111.482 ms
Loss rate: 0.79%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-08-26 17:31:08

End at: 2019-08-26 17:31:38

Local clock offset: 18.118 ms

Remote clock offset: 7.53 ms

Below is generated by plot.py at 2019-08-26 19:58:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.46 Mbit/s

95th percentile per-packet one-way delay: 115.090 ms

Loss rate: 0.80%

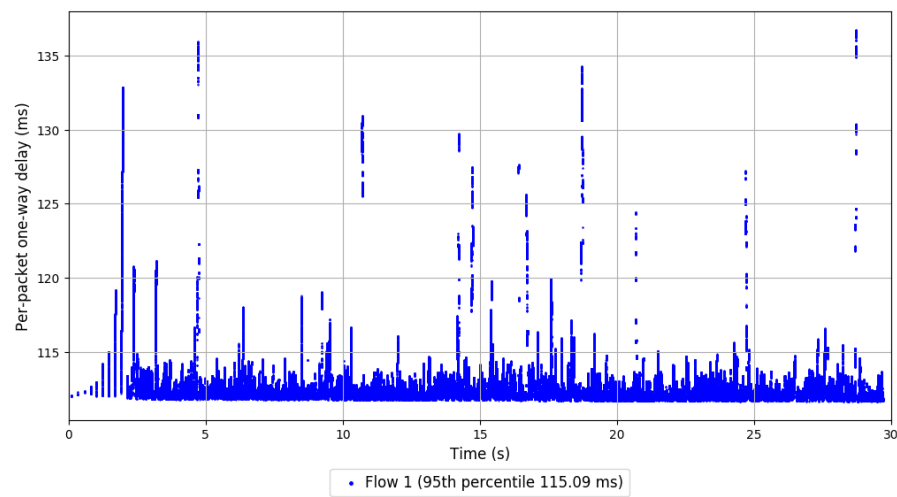
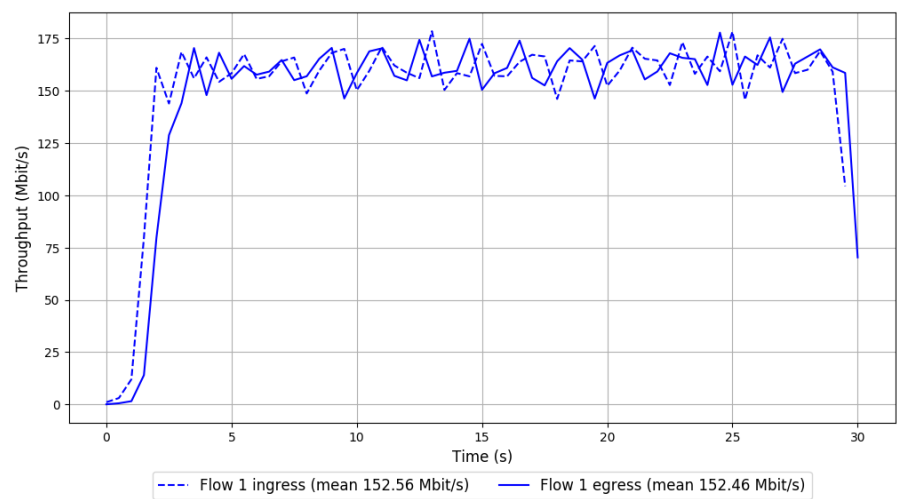
-- Flow 1:

Average throughput: 152.46 Mbit/s

95th percentile per-packet one-way delay: 115.090 ms

Loss rate: 0.80%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-08-26 18:07:37

End at: 2019-08-26 18:08:07

Local clock offset: 9.11 ms

Remote clock offset: 3.457 ms

Below is generated by plot.py at 2019-08-26 19:58:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.39 Mbit/s

95th percentile per-packet one-way delay: 112.521 ms

Loss rate: 0.78%

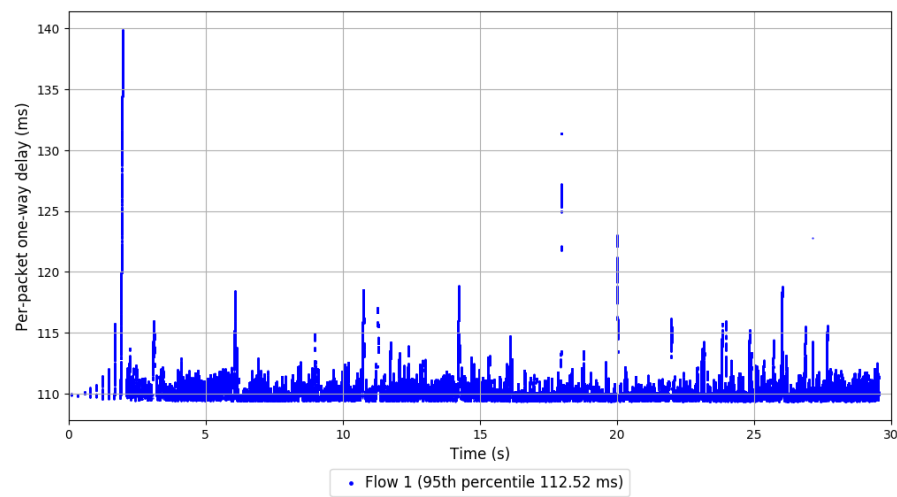
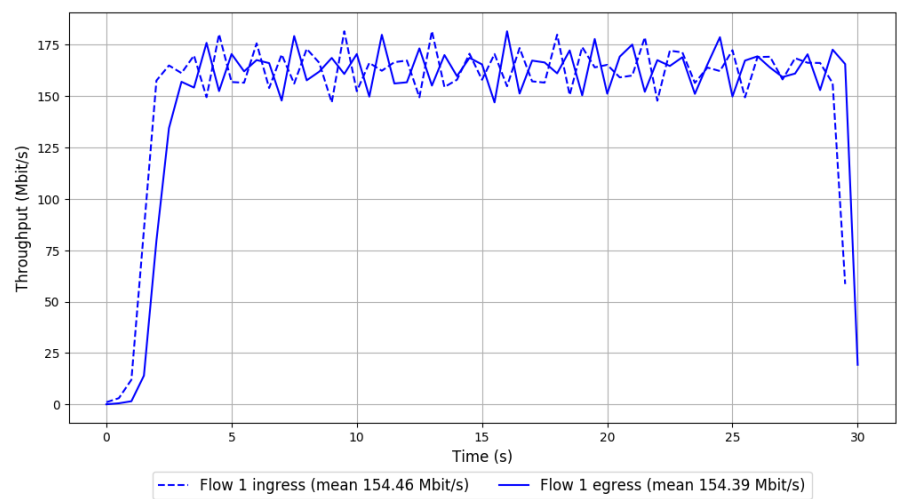
-- Flow 1:

Average throughput: 154.39 Mbit/s

95th percentile per-packet one-way delay: 112.521 ms

Loss rate: 0.78%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-08-26 18:44:07

End at: 2019-08-26 18:44:37

Local clock offset: 1.948 ms

Remote clock offset: 1.331 ms

Below is generated by plot.py at 2019-08-26 19:58:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.64 Mbit/s

95th percentile per-packet one-way delay: 113.015 ms

Loss rate: 0.82%

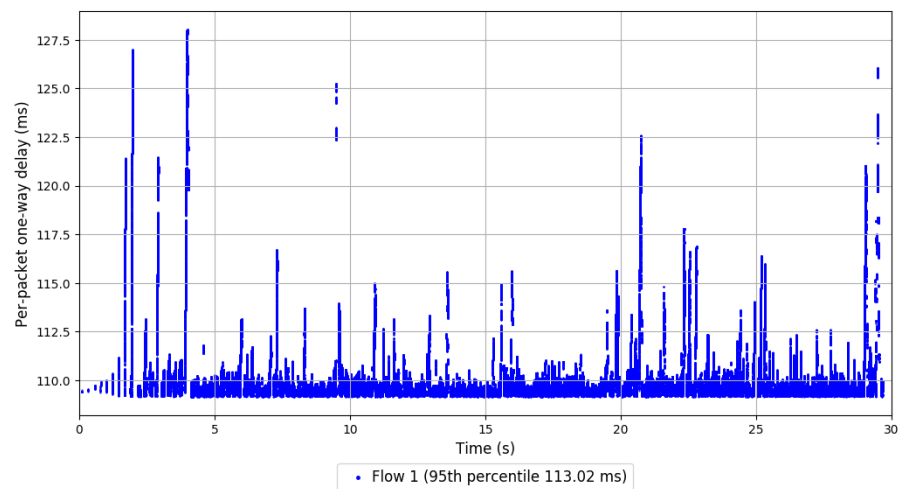
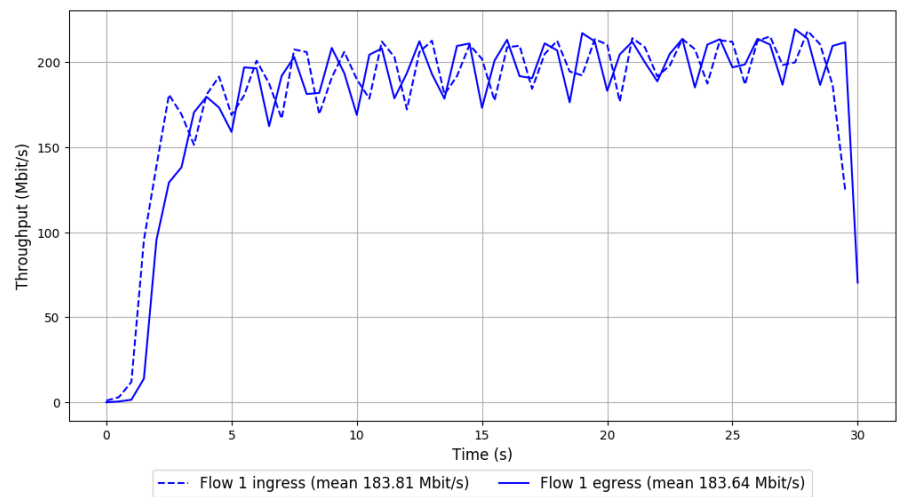
-- Flow 1:

Average throughput: 183.64 Mbit/s

95th percentile per-packet one-way delay: 113.015 ms

Loss rate: 0.82%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

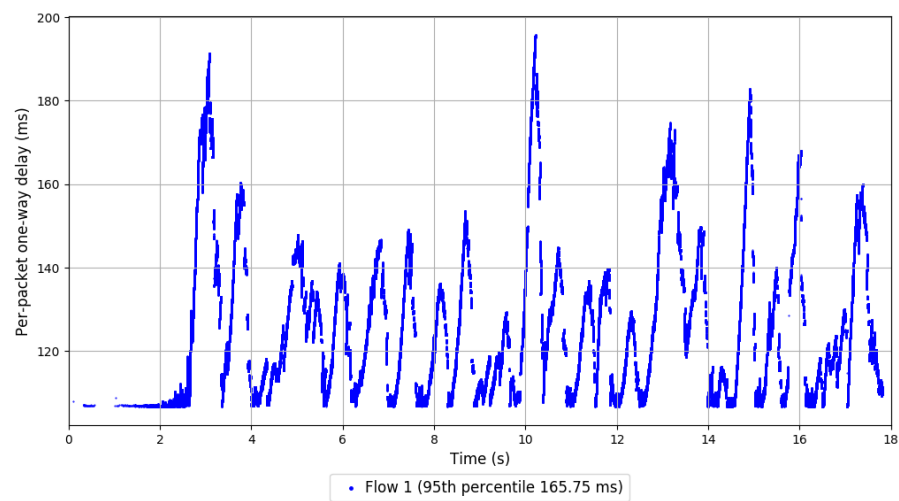
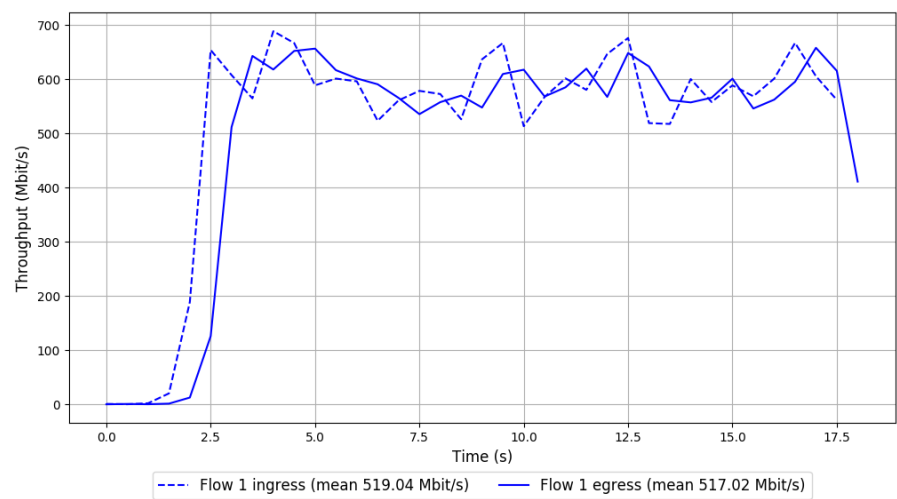
Start at: 2019-08-26 15:57:07

End at: 2019-08-26 15:57:37

Local clock offset: 5.96 ms

Remote clock offset: 4.356 ms

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-26 16:33:04

End at: 2019-08-26 16:33:34

Local clock offset: 19.513 ms

Remote clock offset: 15.75 ms

Below is generated by plot.py at 2019-08-26 19:58:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 595.48 Mbit/s

95th percentile per-packet one-way delay: 165.028 ms

Loss rate: 0.80%

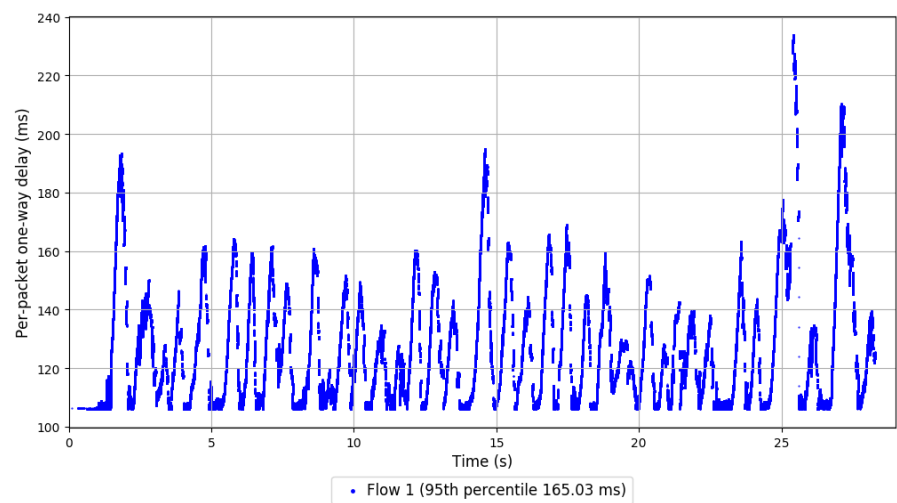
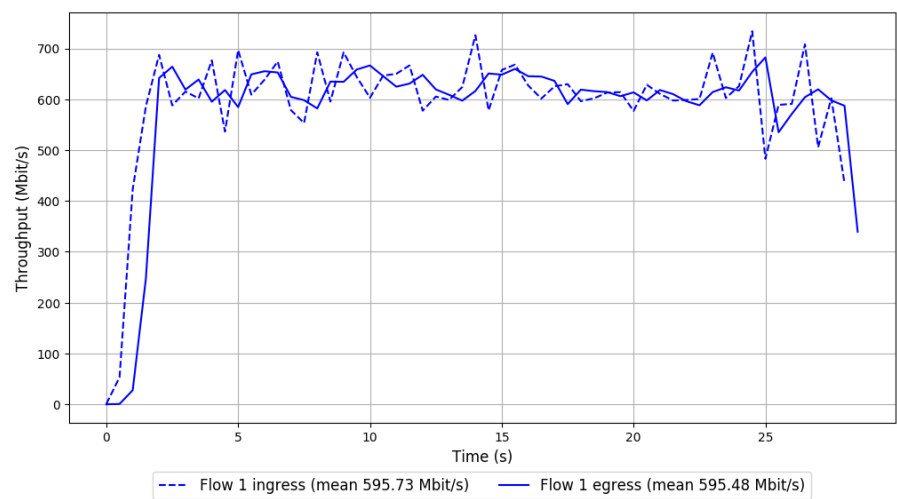
-- Flow 1:

Average throughput: 595.48 Mbit/s

95th percentile per-packet one-way delay: 165.028 ms

Loss rate: 0.80%

Run 2: Report of Indigo-MusesC3 — Data Link

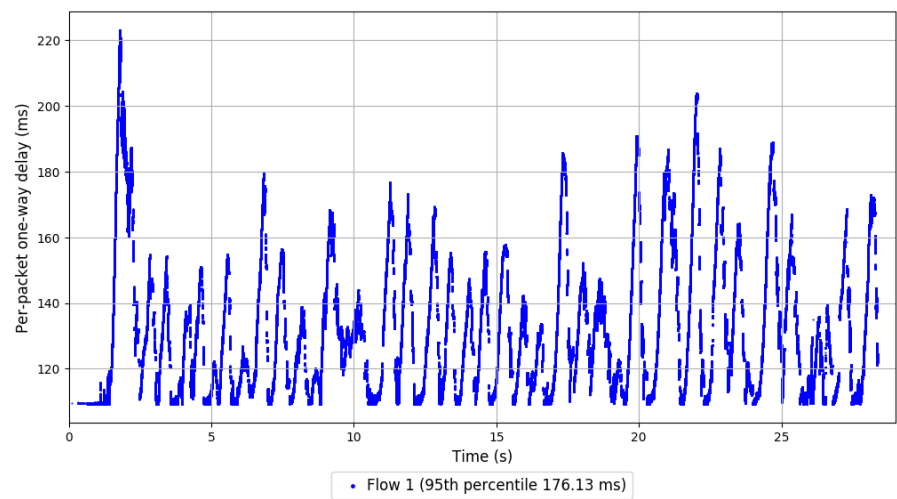
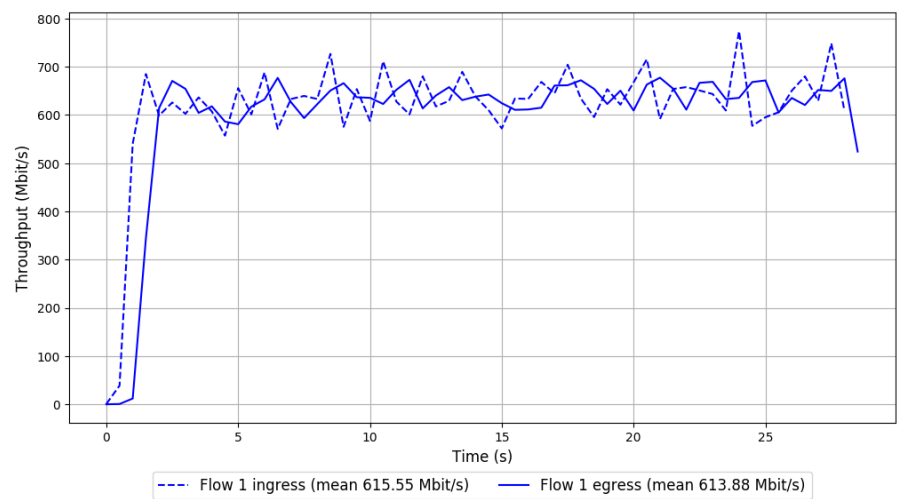


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-26 17:09:10
End at: 2019-08-26 17:09:40
Local clock offset: 18.858 ms
Remote clock offset: 12.895 ms

Below is generated by plot.py at 2019-08-26 19:58:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 613.88 Mbit/s
95th percentile per-packet one-way delay: 176.134 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 613.88 Mbit/s
95th percentile per-packet one-way delay: 176.134 ms
Loss rate: 1.04%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-26 17:45:39

End at: 2019-08-26 17:46:09

Local clock offset: 8.143 ms

Remote clock offset: 3.508 ms

Below is generated by plot.py at 2019-08-26 19:58:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 613.79 Mbit/s

95th percentile per-packet one-way delay: 166.121 ms

Loss rate: 0.83%

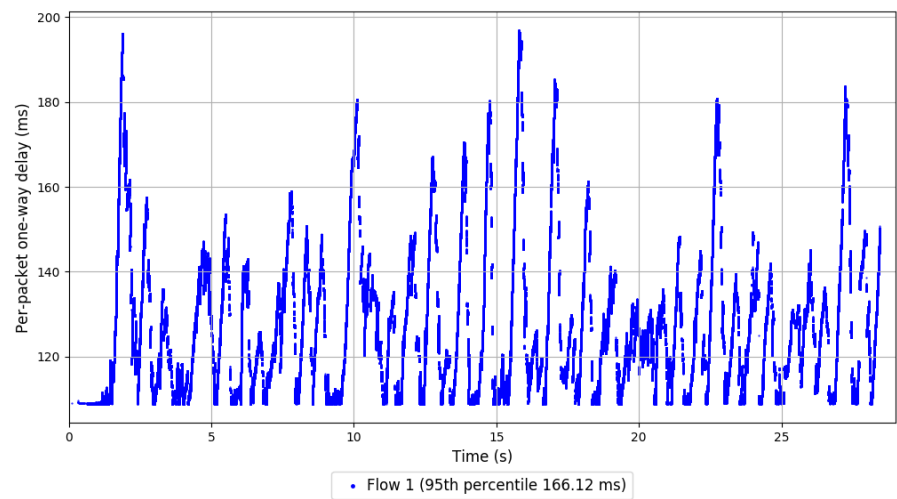
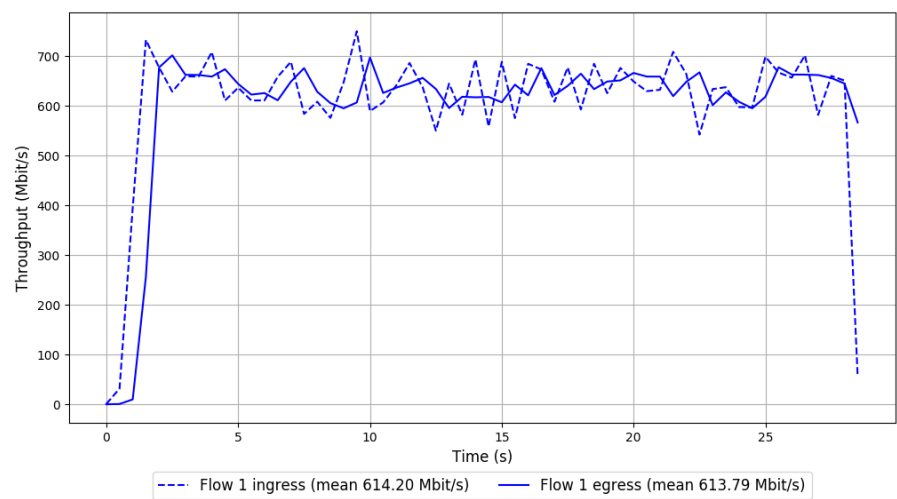
-- Flow 1:

Average throughput: 613.79 Mbit/s

95th percentile per-packet one-way delay: 166.121 ms

Loss rate: 0.83%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-08-26 18:22:11

End at: 2019-08-26 18:22:41

Local clock offset: 2.52 ms

Remote clock offset: 1.241 ms

Below is generated by plot.py at 2019-08-26 19:58:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 590.31 Mbit/s

95th percentile per-packet one-way delay: 173.610 ms

Loss rate: 1.14%

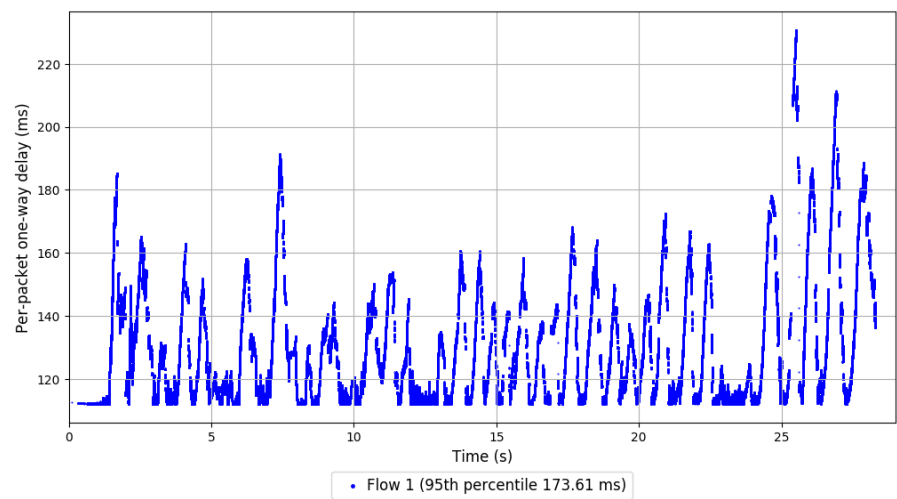
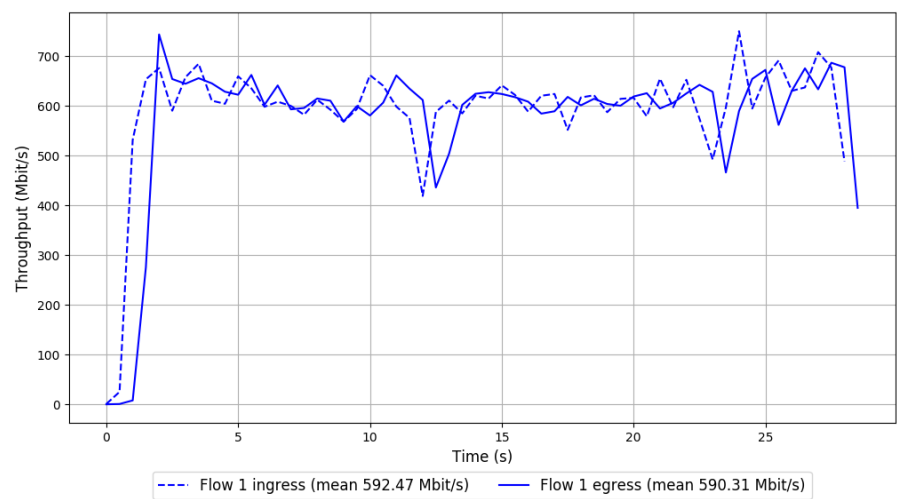
-- Flow 1:

Average throughput: 590.31 Mbit/s

95th percentile per-packet one-way delay: 173.610 ms

Loss rate: 1.14%

Run 5: Report of Indigo-MusesC3 — Data Link

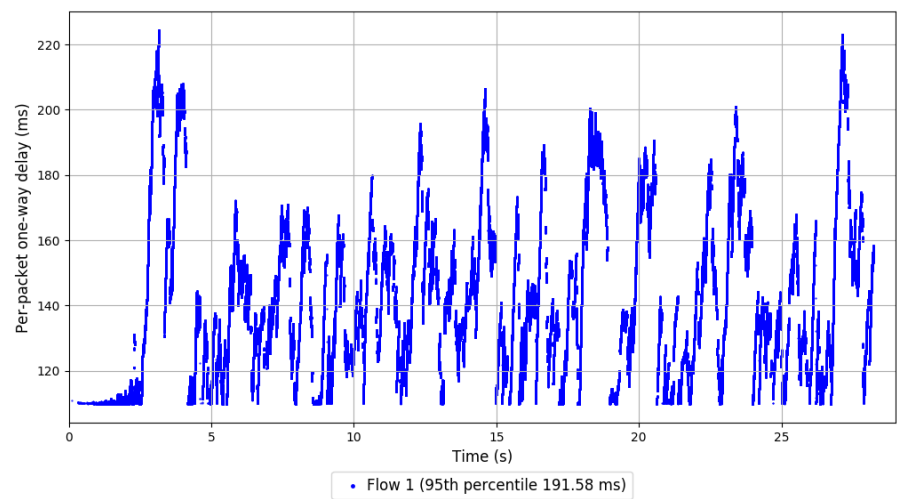
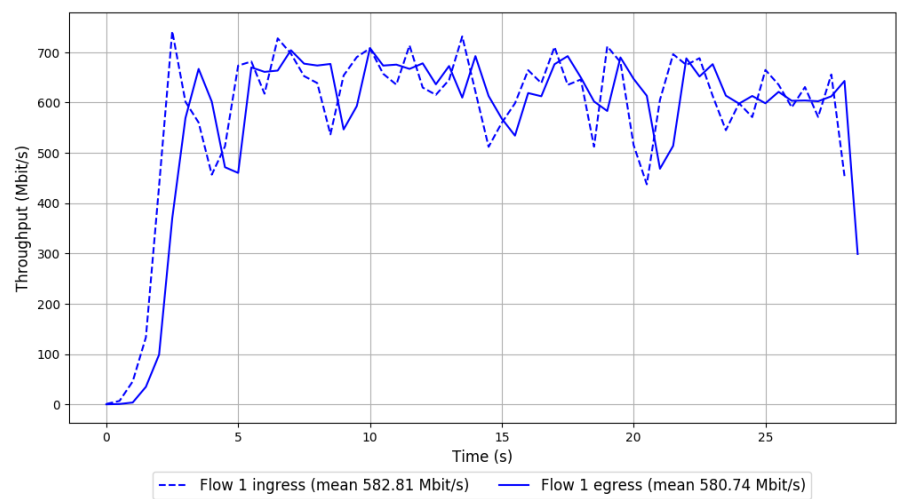


```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-26 16:20:02
End at: 2019-08-26 16:20:32
Local clock offset: 18.051 ms
Remote clock offset: 14.742 ms

# Below is generated by plot.py at 2019-08-26 20:00:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 580.74 Mbit/s
95th percentile per-packet one-way delay: 191.578 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 580.74 Mbit/s
95th percentile per-packet one-way delay: 191.578 ms
Loss rate: 1.13%
```

Run 1: Report of Indigo-MusesC5 — Data Link

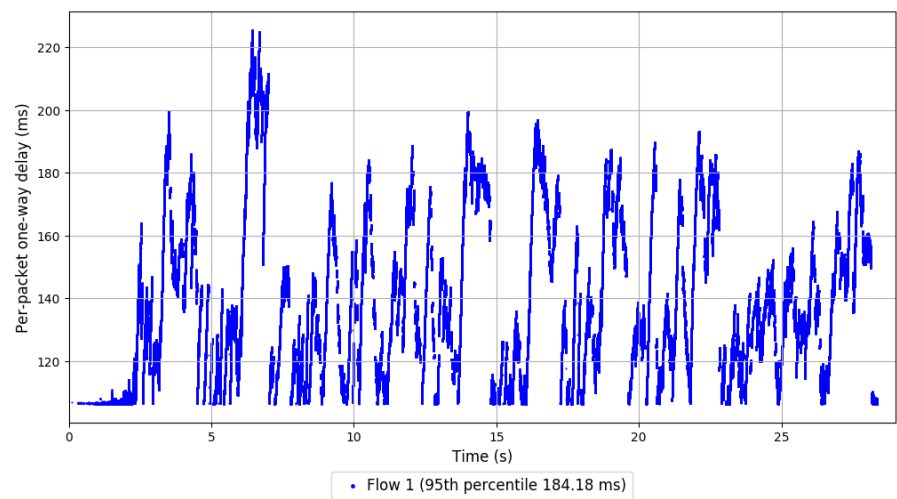
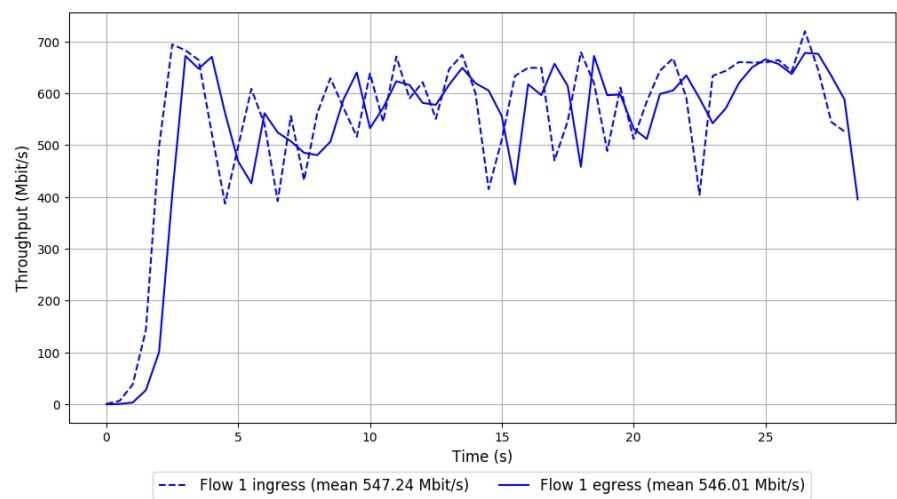


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-26 16:56:09
End at: 2019-08-26 16:56:39
Local clock offset: 34.673 ms
Remote clock offset: 28.358 ms

Below is generated by plot.py at 2019-08-26 20:00:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 546.01 Mbit/s
95th percentile per-packet one-way delay: 184.179 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 546.01 Mbit/s
95th percentile per-packet one-way delay: 184.179 ms
Loss rate: 0.98%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-26 17:32:33

End at: 2019-08-26 17:33:03

Local clock offset: 18.793 ms

Remote clock offset: 7.798 ms

Below is generated by plot.py at 2019-08-26 20:02:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 571.26 Mbit/s

95th percentile per-packet one-way delay: 178.985 ms

Loss rate: 1.03%

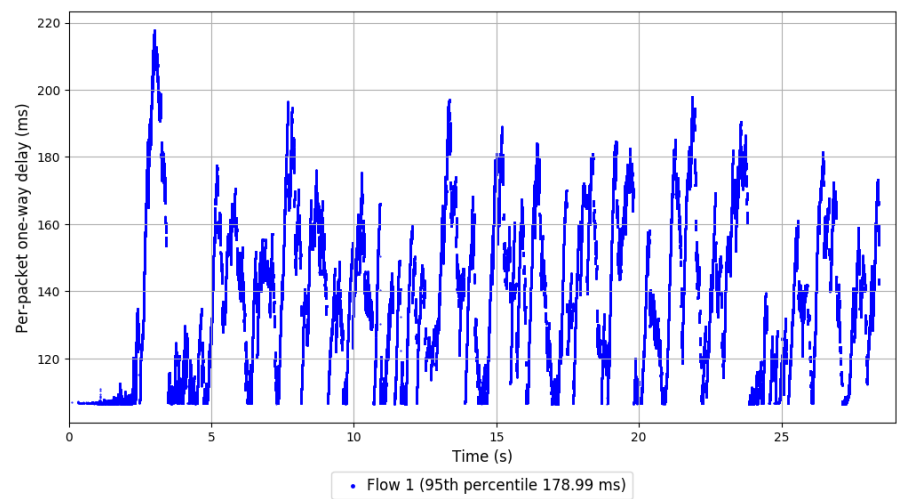
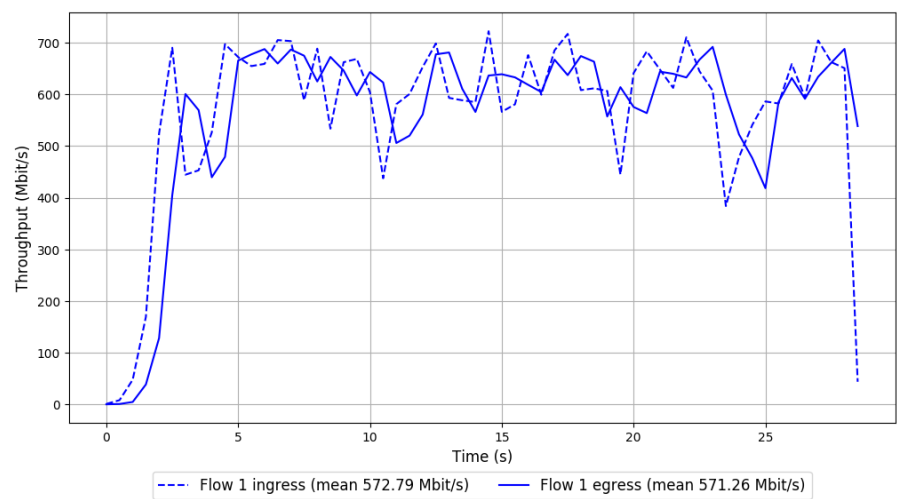
-- Flow 1:

Average throughput: 571.26 Mbit/s

95th percentile per-packet one-way delay: 178.985 ms

Loss rate: 1.03%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-26 18:09:03

End at: 2019-08-26 18:09:33

Local clock offset: 9.146 ms

Remote clock offset: 3.296 ms

Below is generated by plot.py at 2019-08-26 20:08:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 594.57 Mbit/s

95th percentile per-packet one-way delay: 175.332 ms

Loss rate: 0.78%

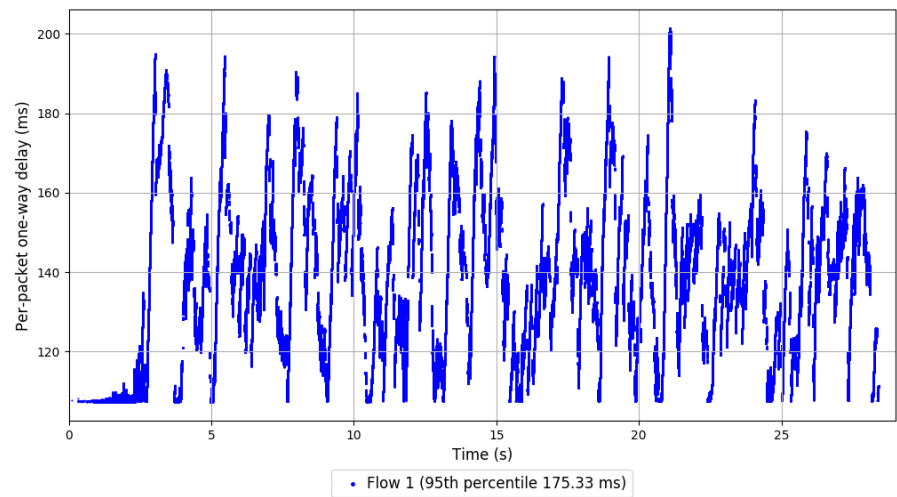
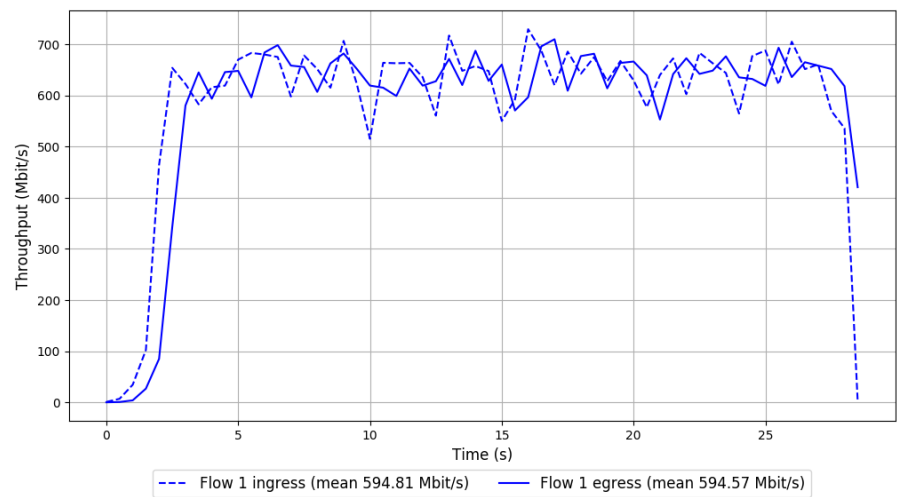
-- Flow 1:

Average throughput: 594.57 Mbit/s

95th percentile per-packet one-way delay: 175.332 ms

Loss rate: 0.78%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-08-26 18:45:35

End at: 2019-08-26 18:46:05

Local clock offset: 2.198 ms

Remote clock offset: 1.129 ms

Below is generated by plot.py at 2019-08-26 20:08:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 586.54 Mbit/s

95th percentile per-packet one-way delay: 184.895 ms

Loss rate: 1.10%

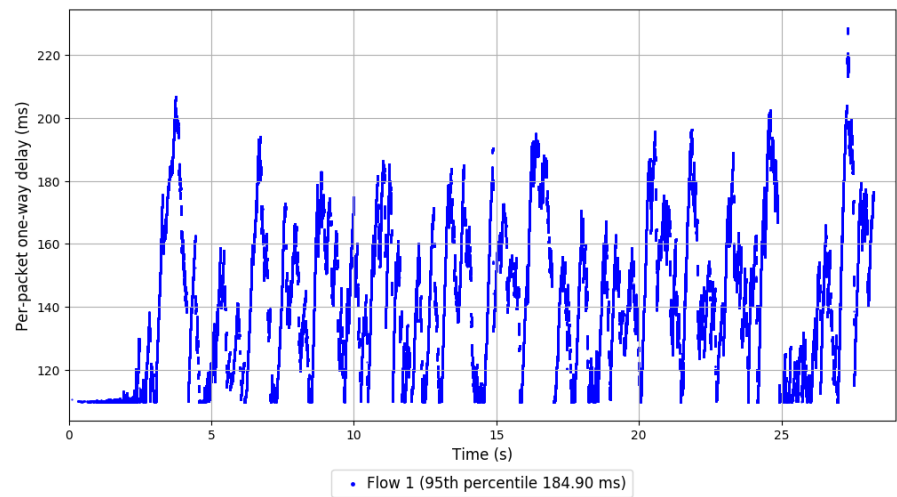
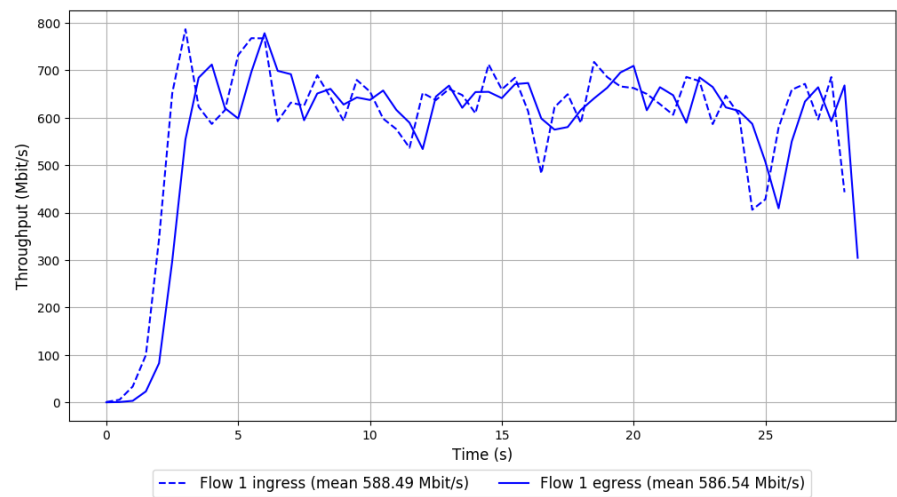
-- Flow 1:

Average throughput: 586.54 Mbit/s

95th percentile per-packet one-way delay: 184.895 ms

Loss rate: 1.10%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-26 16:12:23

End at: 2019-08-26 16:12:53

Local clock offset: 13.202 ms

Remote clock offset: 10.523 ms

Below is generated by plot.py at 2019-08-26 20:08:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 547.23 Mbit/s

95th percentile per-packet one-way delay: 175.403 ms

Loss rate: 0.82%

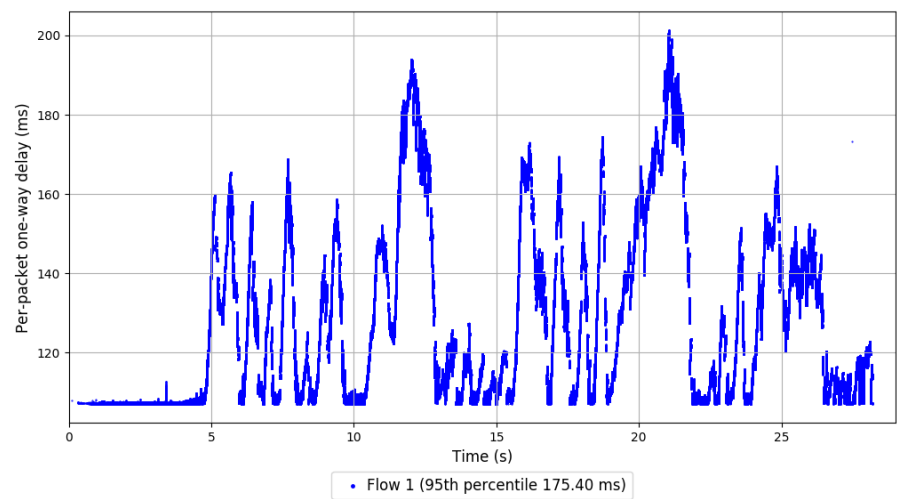
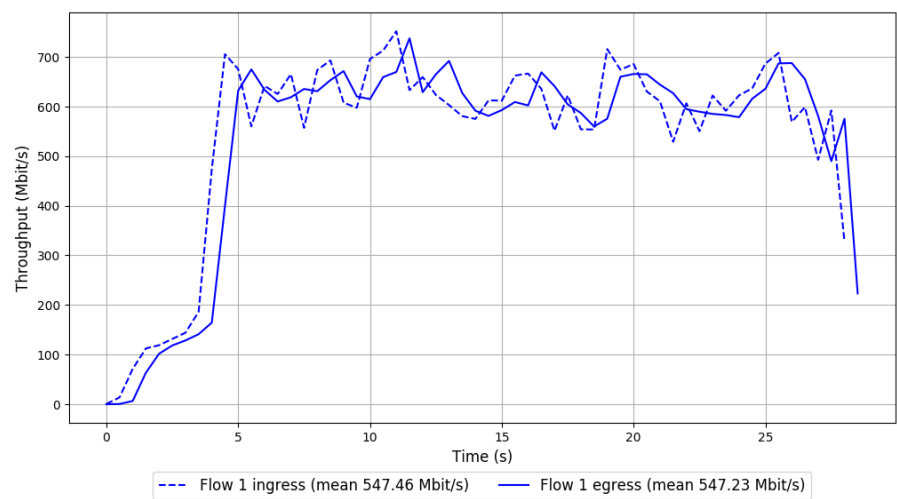
-- Flow 1:

Average throughput: 547.23 Mbit/s

95th percentile per-packet one-way delay: 175.403 ms

Loss rate: 0.82%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-26 16:48:44

End at: 2019-08-26 16:49:14

Local clock offset: 27.556 ms

Remote clock offset: 22.298 ms

Below is generated by plot.py at 2019-08-26 20:08:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 541.26 Mbit/s

95th percentile per-packet one-way delay: 196.681 ms

Loss rate: 0.98%

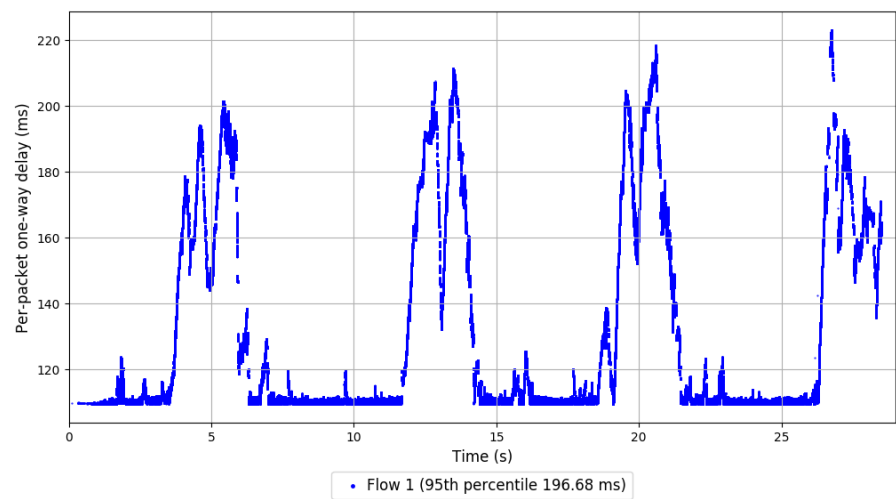
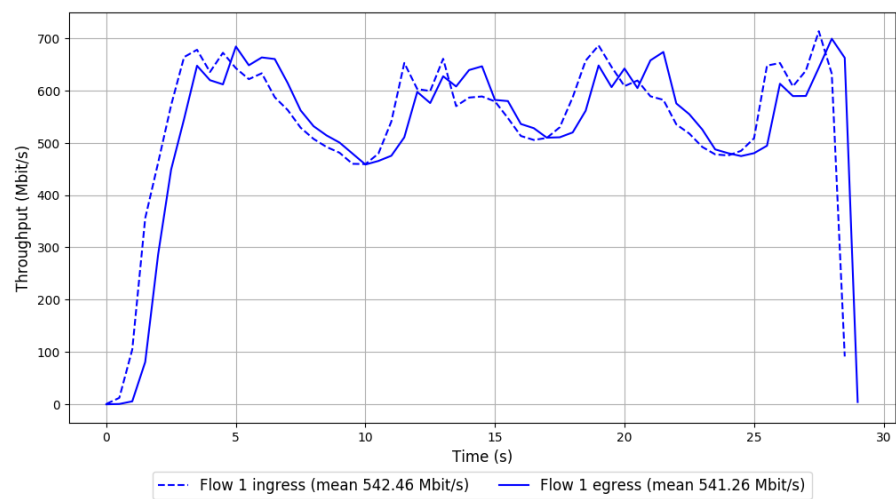
-- Flow 1:

Average throughput: 541.26 Mbit/s

95th percentile per-packet one-way delay: 196.681 ms

Loss rate: 0.98%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-26 17:24:53

End at: 2019-08-26 17:25:23

Local clock offset: 15.845 ms

Remote clock offset: 7.038 ms

Below is generated by plot.py at 2019-08-26 20:08:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 583.83 Mbit/s

95th percentile per-packet one-way delay: 188.953 ms

Loss rate: 0.93%

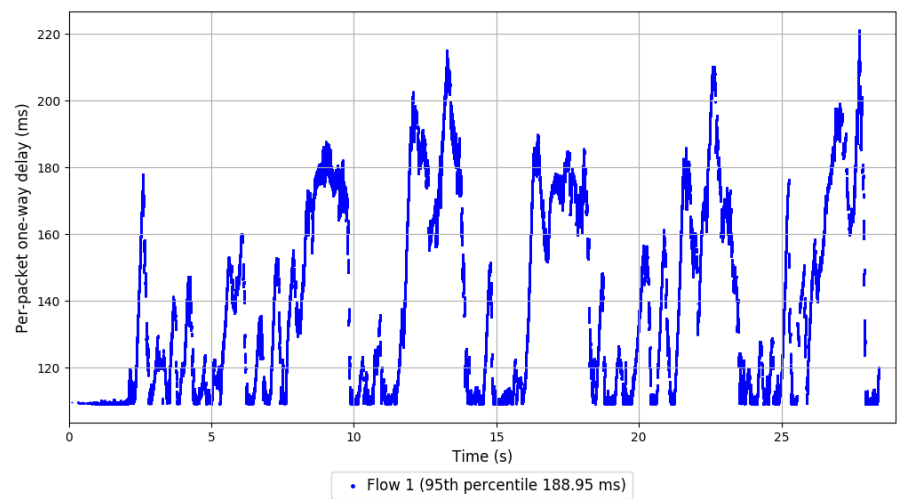
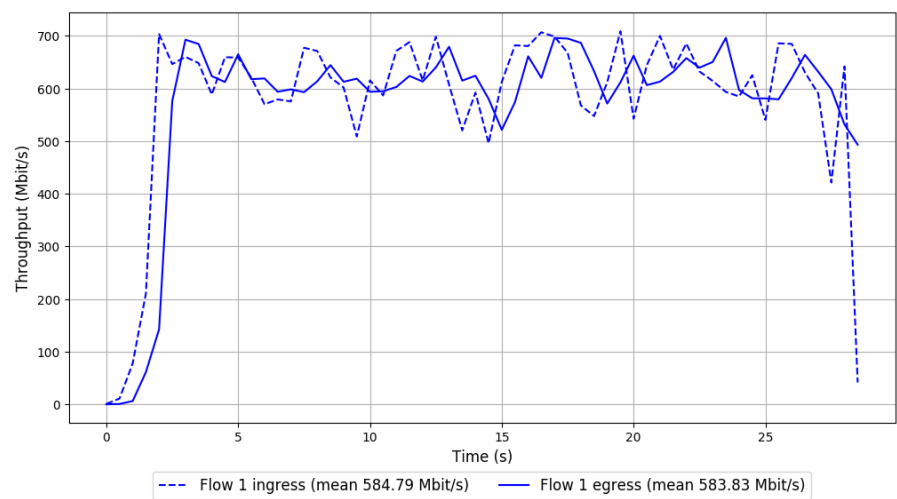
-- Flow 1:

Average throughput: 583.83 Mbit/s

95th percentile per-packet one-way delay: 188.953 ms

Loss rate: 0.93%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-08-26 18:01:21

End at: 2019-08-26 18:01:51

Local clock offset: 7.991 ms

Remote clock offset: 3.02 ms

Below is generated by plot.py at 2019-08-26 20:09:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 571.78 Mbit/s

95th percentile per-packet one-way delay: 198.964 ms

Loss rate: 0.91%

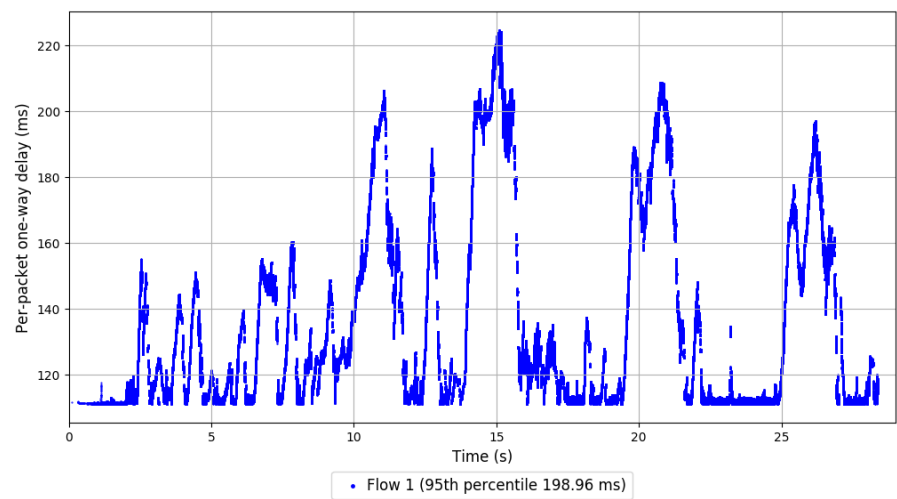
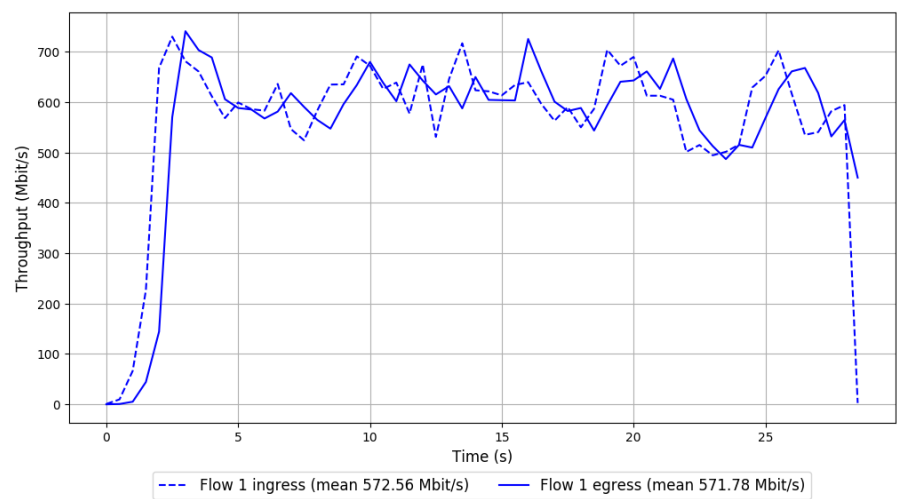
-- Flow 1:

Average throughput: 571.78 Mbit/s

95th percentile per-packet one-way delay: 198.964 ms

Loss rate: 0.91%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-08-26 18:37:52

End at: 2019-08-26 18:38:22

Local clock offset: 1.987 ms

Remote clock offset: 1.365 ms

Below is generated by plot.py at 2019-08-26 20:09:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 571.98 Mbit/s

95th percentile per-packet one-way delay: 191.308 ms

Loss rate: 1.23%

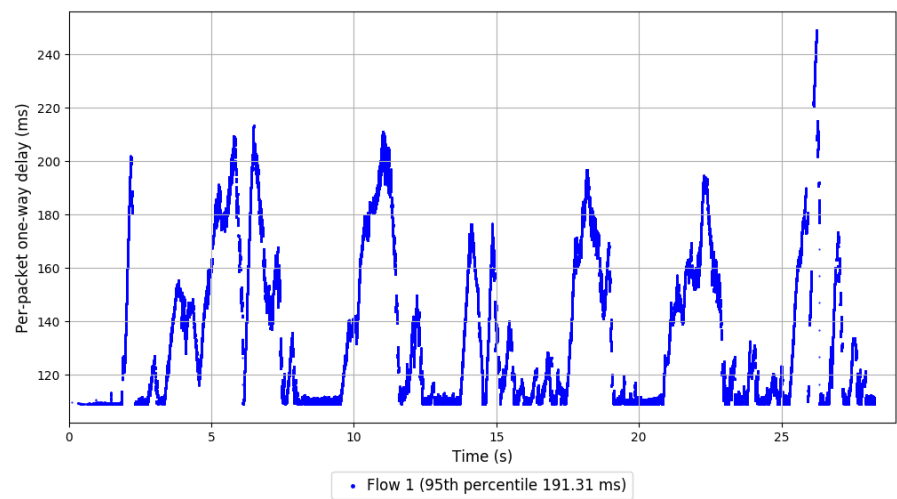
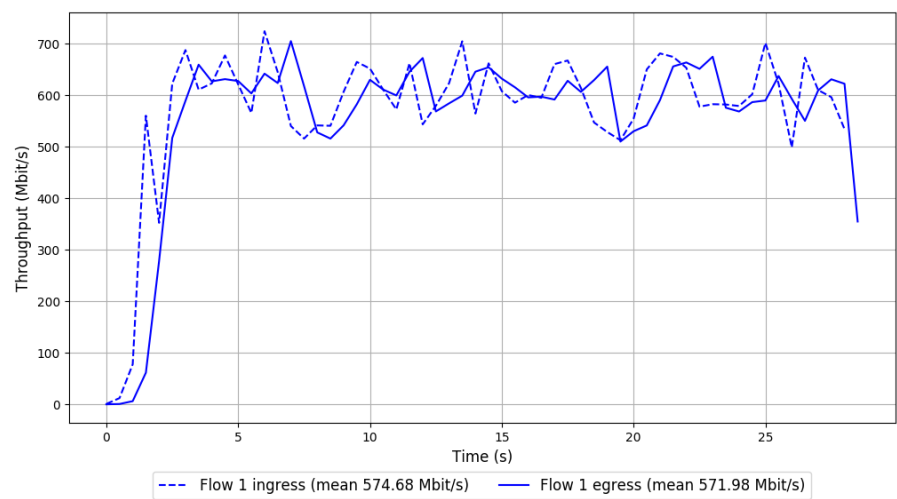
-- Flow 1:

Average throughput: 571.98 Mbit/s

95th percentile per-packet one-way delay: 191.308 ms

Loss rate: 1.23%

Run 5: Report of Indigo-MusesD — Data Link

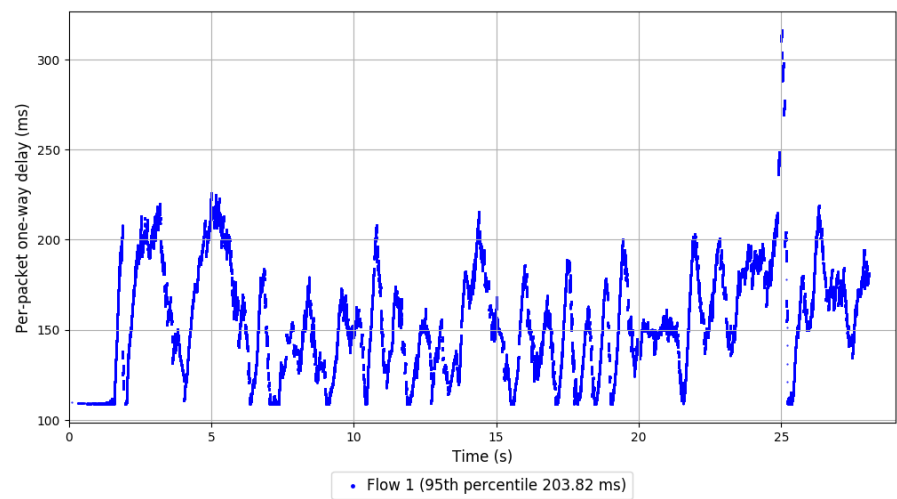
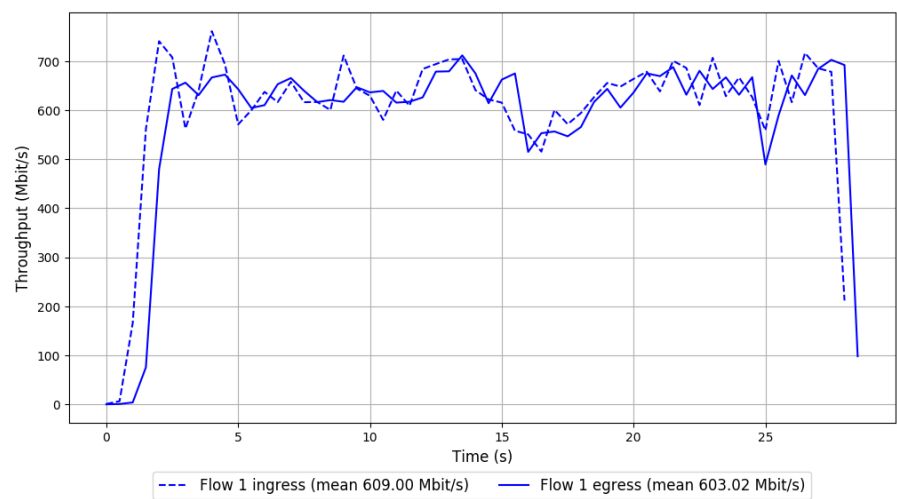


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-08-26 16:05:48
End at: 2019-08-26 16:06:18
Local clock offset: 11.385 ms
Remote clock offset: 9.611 ms

# Below is generated by plot.py at 2019-08-26 20:12:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 603.02 Mbit/s
95th percentile per-packet one-way delay: 203.819 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 603.02 Mbit/s
95th percentile per-packet one-way delay: 203.819 ms
Loss rate: 1.76%
```

Run 1: Report of Indigo-MusesT — Data Link

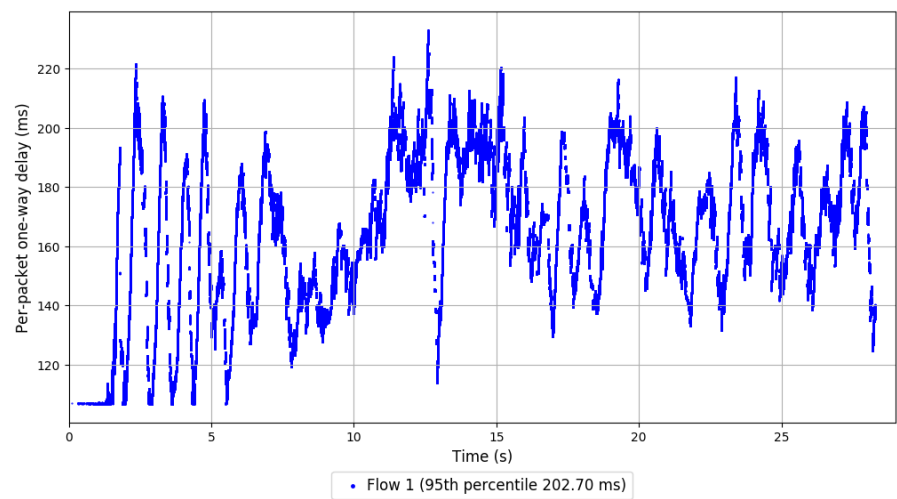
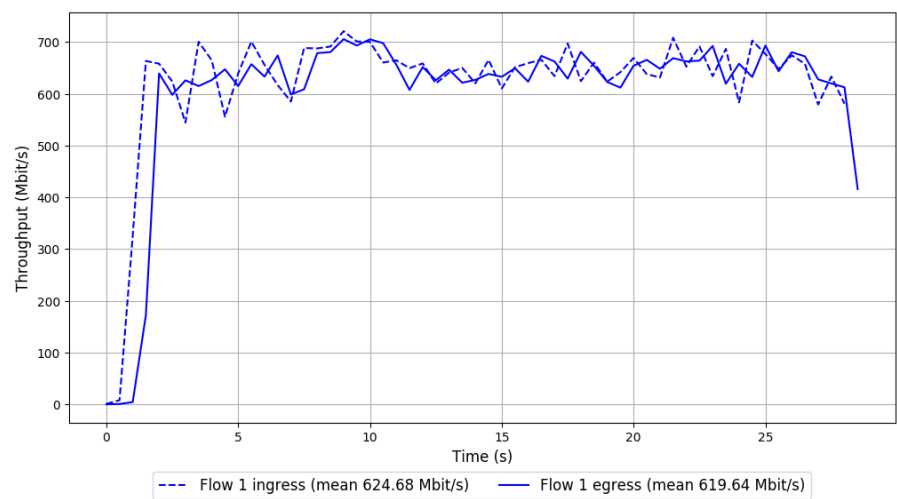


Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-26 16:42:07
End at: 2019-08-26 16:42:37
Local clock offset: 22.099 ms
Remote clock offset: 17.906 ms

Below is generated by plot.py at 2019-08-26 20:18:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 619.64 Mbit/s
95th percentile per-packet one-way delay: 202.702 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 619.64 Mbit/s
95th percentile per-packet one-way delay: 202.702 ms
Loss rate: 1.56%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-26 17:18:12

End at: 2019-08-26 17:18:42

Local clock offset: 14.858 ms

Remote clock offset: 7.681 ms

Below is generated by plot.py at 2019-08-26 20:18:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 619.52 Mbit/s

95th percentile per-packet one-way delay: 207.650 ms

Loss rate: 1.90%

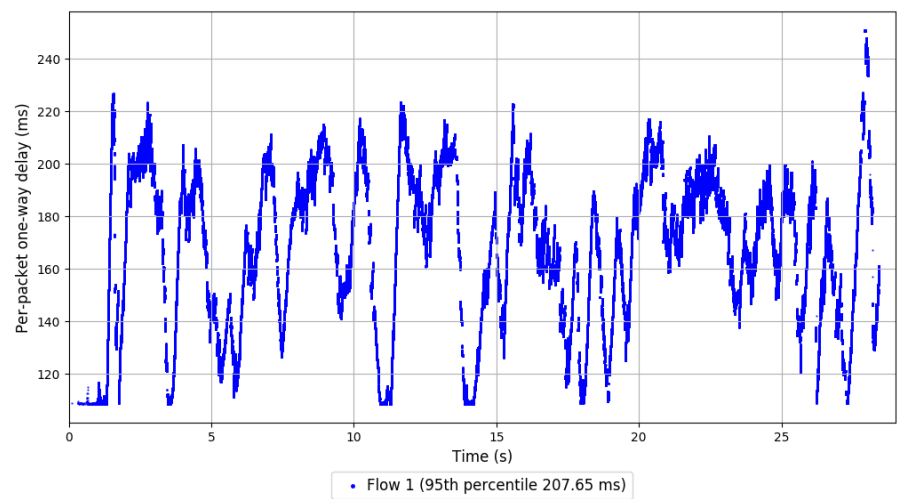
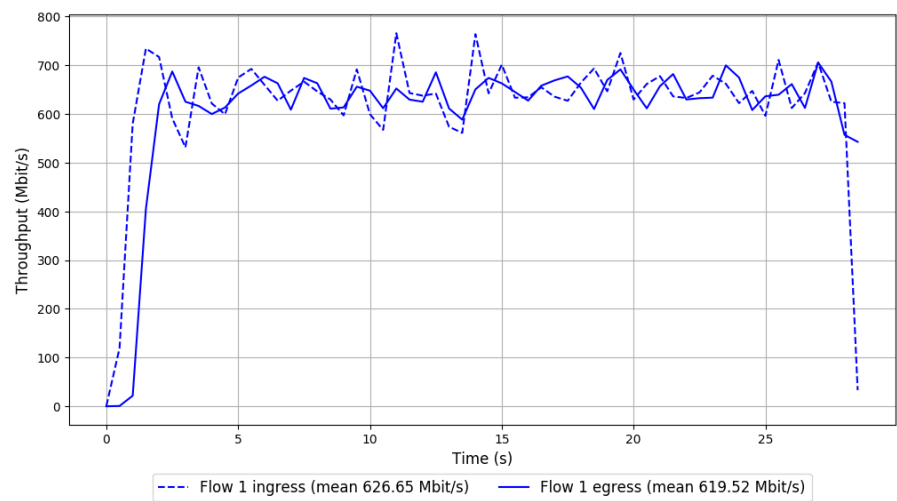
-- Flow 1:

Average throughput: 619.52 Mbit/s

95th percentile per-packet one-way delay: 207.650 ms

Loss rate: 1.90%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-08-26 17:54:44

End at: 2019-08-26 17:55:14

Local clock offset: 7.127 ms

Remote clock offset: 2.75 ms

Below is generated by plot.py at 2019-08-26 20:19:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 634.95 Mbit/s

95th percentile per-packet one-way delay: 201.244 ms

Loss rate: 1.23%

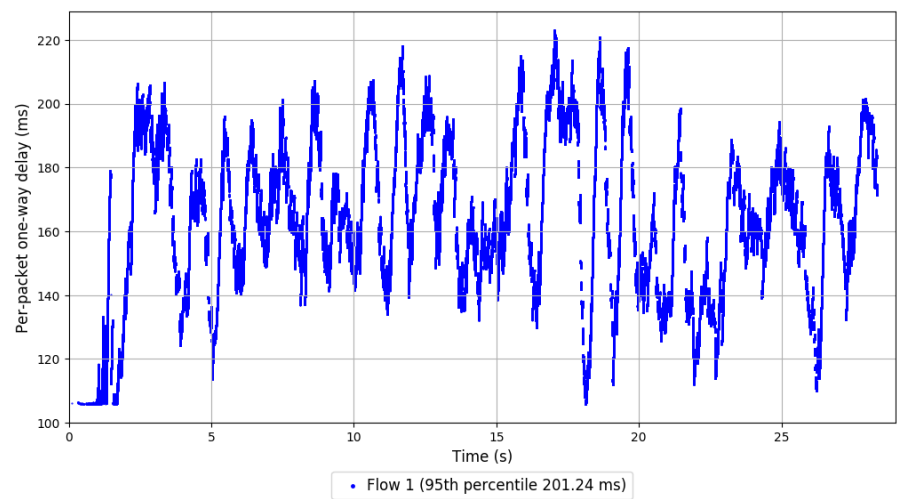
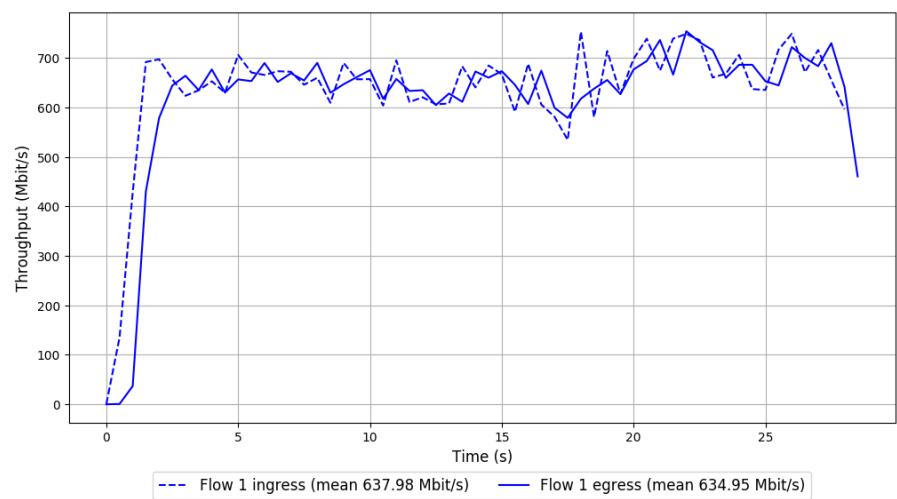
-- Flow 1:

Average throughput: 634.95 Mbit/s

95th percentile per-packet one-way delay: 201.244 ms

Loss rate: 1.23%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-08-26 18:31:14

End at: 2019-08-26 18:31:44

Local clock offset: 1.98 ms

Remote clock offset: 1.189 ms

Below is generated by plot.py at 2019-08-26 20:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 661.72 Mbit/s

95th percentile per-packet one-way delay: 193.322 ms

Loss rate: 1.42%

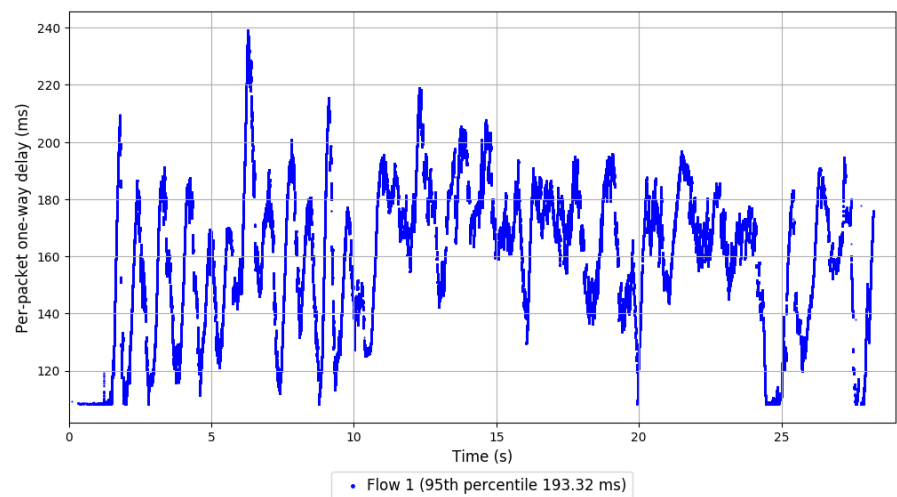
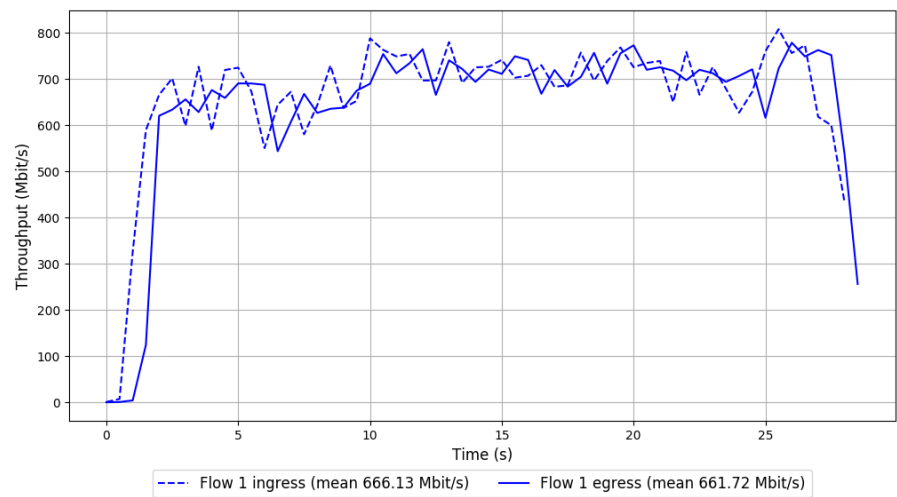
-- Flow 1:

Average throughput: 661.72 Mbit/s

95th percentile per-packet one-way delay: 193.322 ms

Loss rate: 1.42%

Run 5: Report of Indigo-MusesT — Data Link

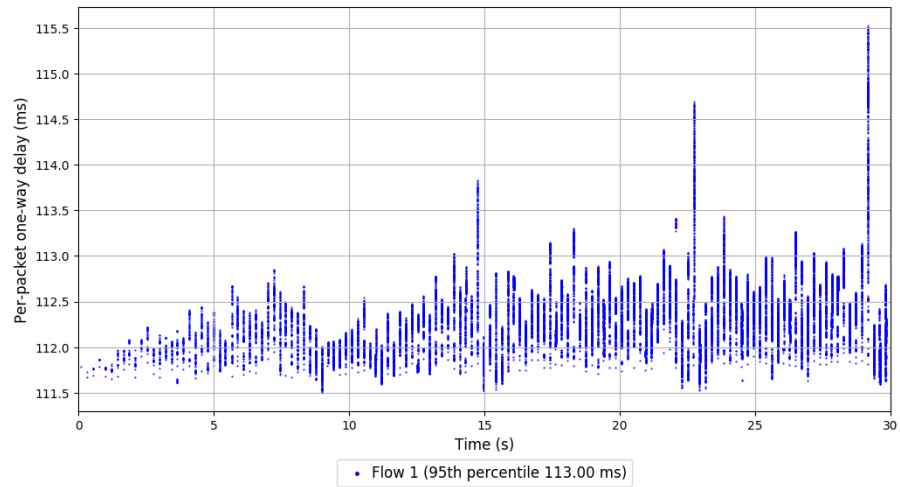
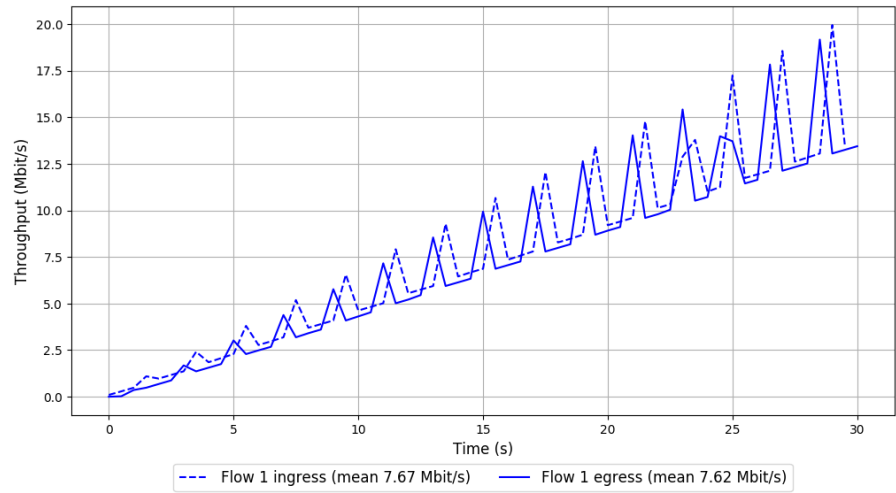


Run 1: Statistics of LEDBAT

Start at: 2019-08-26 16:25:54
End at: 2019-08-26 16:26:24
Local clock offset: 26.032 ms
Remote clock offset: 21.103 ms

Below is generated by plot.py at 2019-08-26 20:19:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 112.998 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 112.998 ms
Loss rate: 1.48%

Run 1: Report of LEDBAT — Data Link

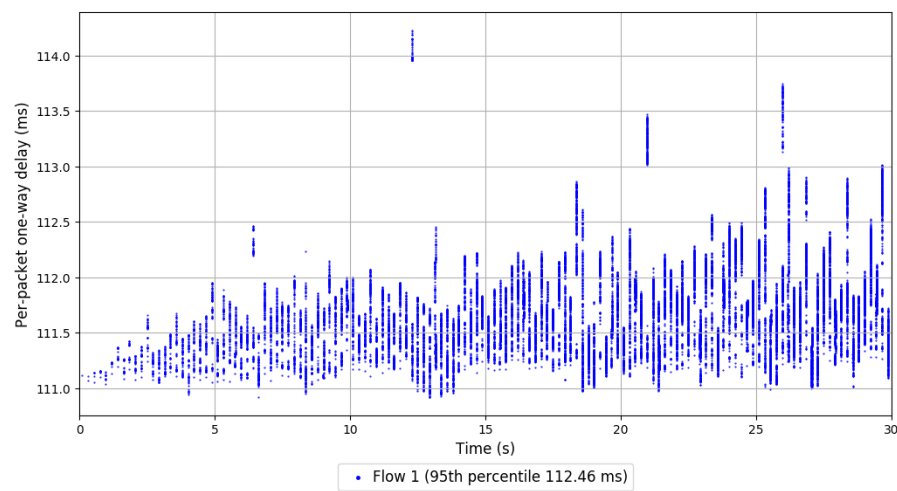
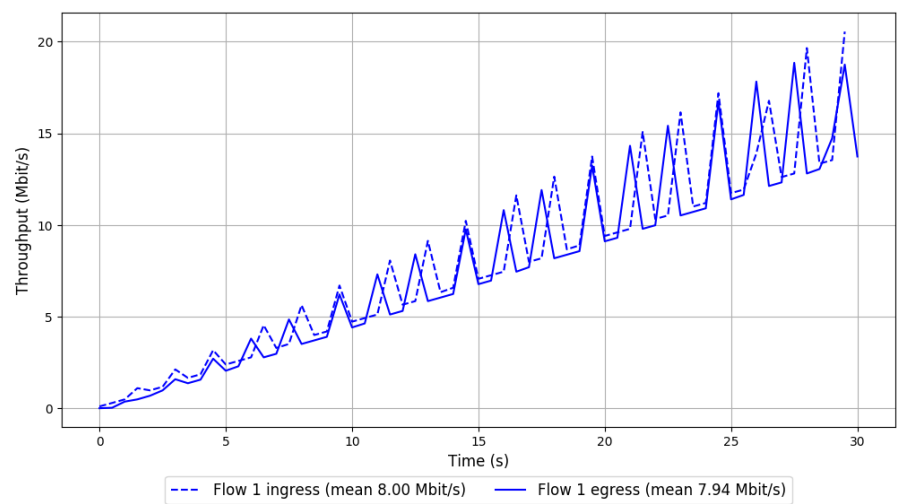


Run 2: Statistics of LEDBAT

Start at: 2019-08-26 17:01:59
End at: 2019-08-26 17:02:29
Local clock offset: 34.147 ms
Remote clock offset: 26.087 ms

Below is generated by plot.py at 2019-08-26 20:19:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 112.460 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 112.460 ms
Loss rate: 1.42%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-08-26 17:38:26

End at: 2019-08-26 17:38:56

Local clock offset: 13.302 ms

Remote clock offset: 5.337 ms

Below is generated by plot.py at 2019-08-26 20:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 111.429 ms

Loss rate: 1.48%

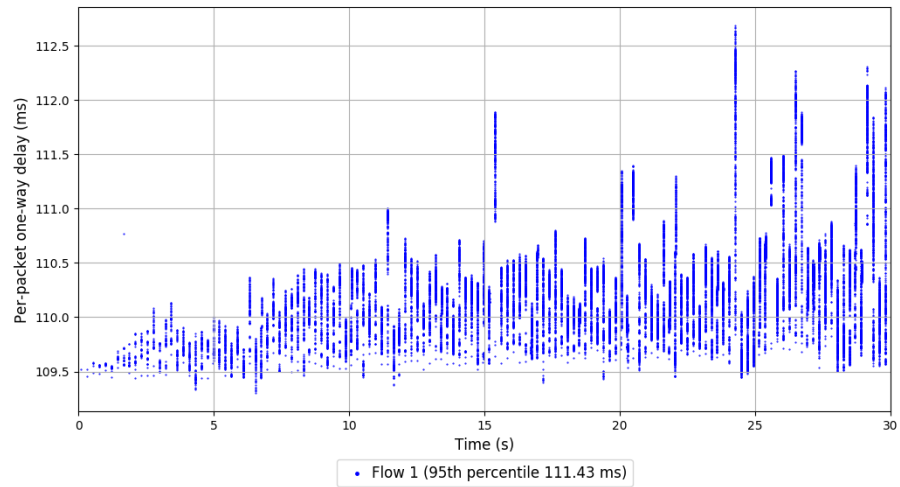
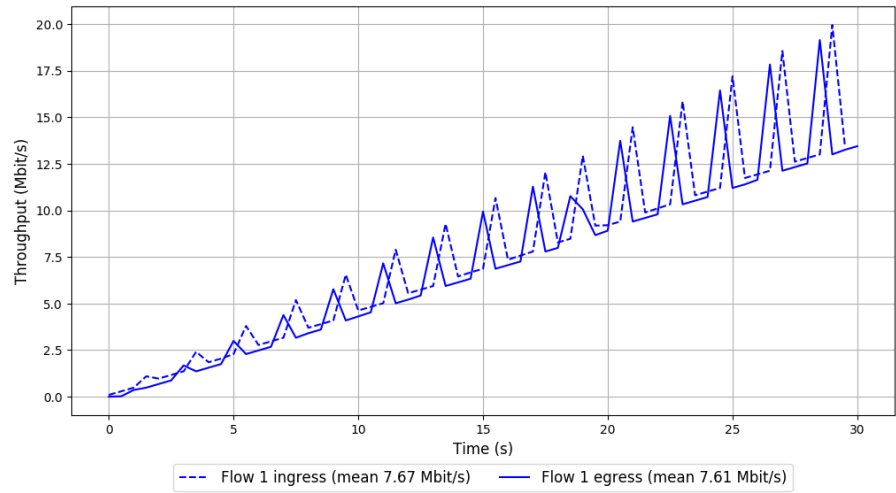
-- Flow 1:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 111.429 ms

Loss rate: 1.48%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-08-26 18:14:59

End at: 2019-08-26 18:15:29

Local clock offset: 4.879 ms

Remote clock offset: 1.864 ms

Below is generated by plot.py at 2019-08-26 20:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 108.973 ms

Loss rate: 1.47%

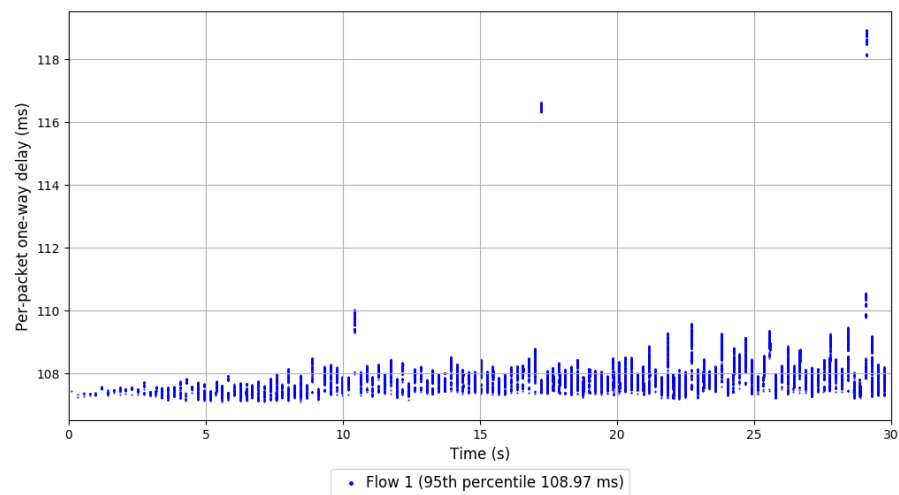
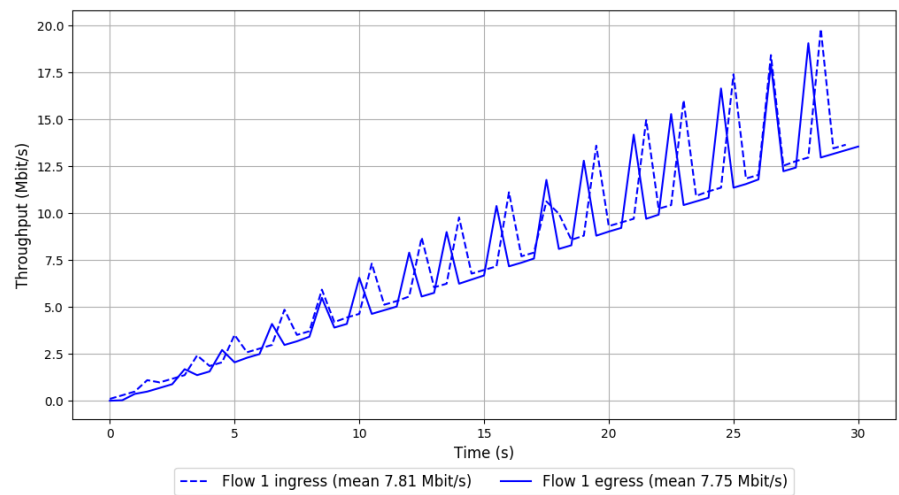
-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 108.973 ms

Loss rate: 1.47%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-08-26 18:51:25

End at: 2019-08-26 18:51:55

Local clock offset: 0.596 ms

Remote clock offset: 0.625 ms

Below is generated by plot.py at 2019-08-26 20:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 113.335 ms

Loss rate: 1.49%

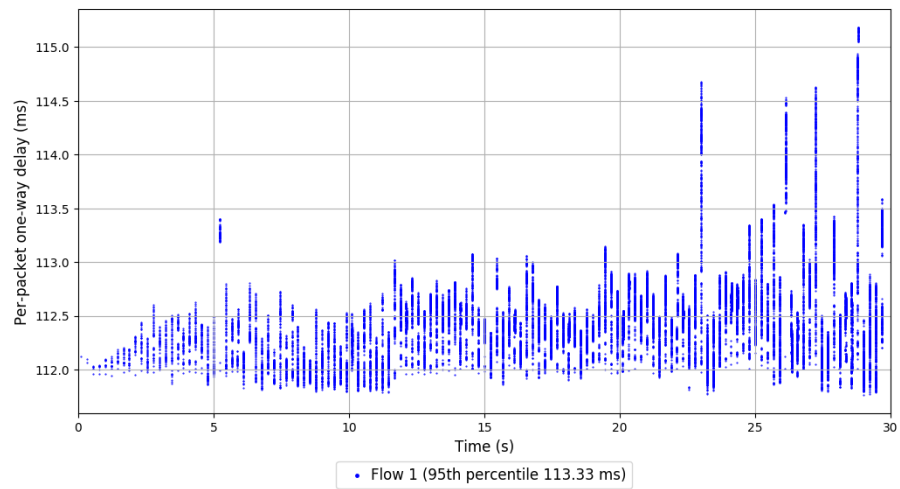
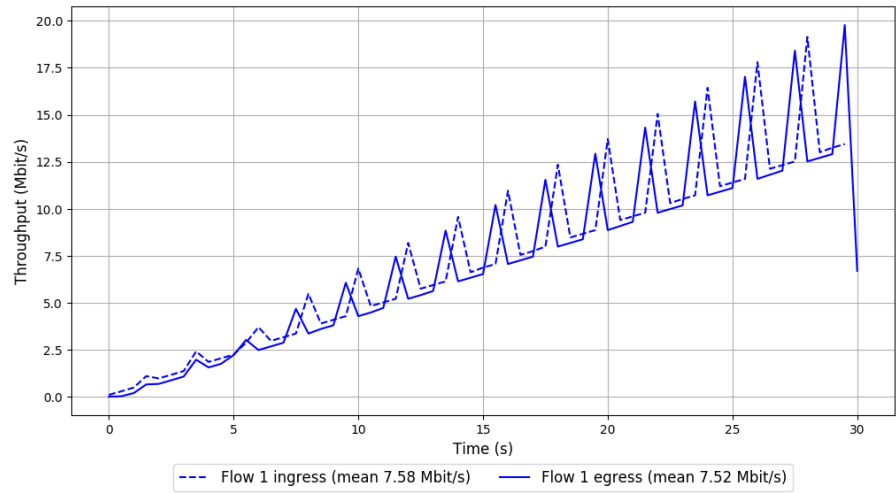
-- Flow 1:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 113.335 ms

Loss rate: 1.49%

Run 5: Report of LEDBAT — Data Link

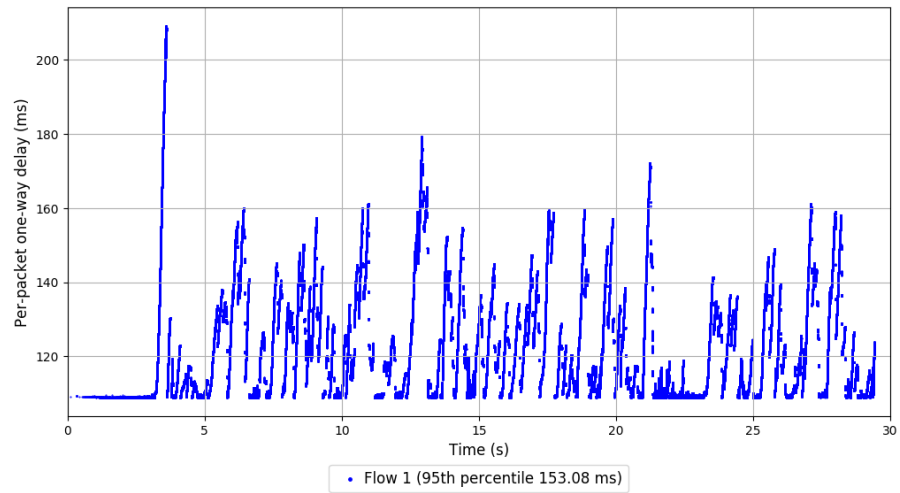
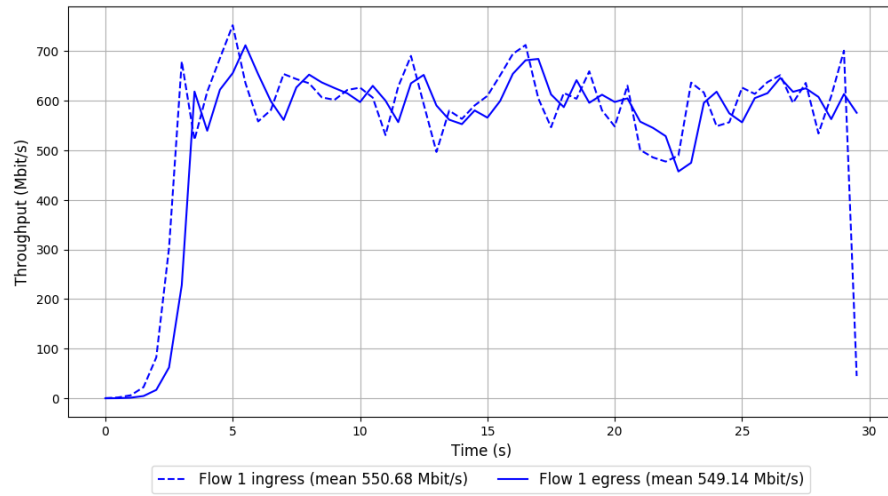


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-08-26 16:10:45
End at: 2019-08-26 16:11:15
Local clock offset: 14.418 ms
Remote clock offset: 11.582 ms

# Below is generated by plot.py at 2019-08-26 20:19:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 549.14 Mbit/s
95th percentile per-packet one-way delay: 153.080 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 549.14 Mbit/s
95th percentile per-packet one-way delay: 153.080 ms
Loss rate: 1.02%
```

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-08-26 16:47:06

End at: 2019-08-26 16:47:36

Local clock offset: 26.295 ms

Remote clock offset: 21.11 ms

Below is generated by plot.py at 2019-08-26 20:19:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.11 Mbit/s

95th percentile per-packet one-way delay: 157.820 ms

Loss rate: 0.89%

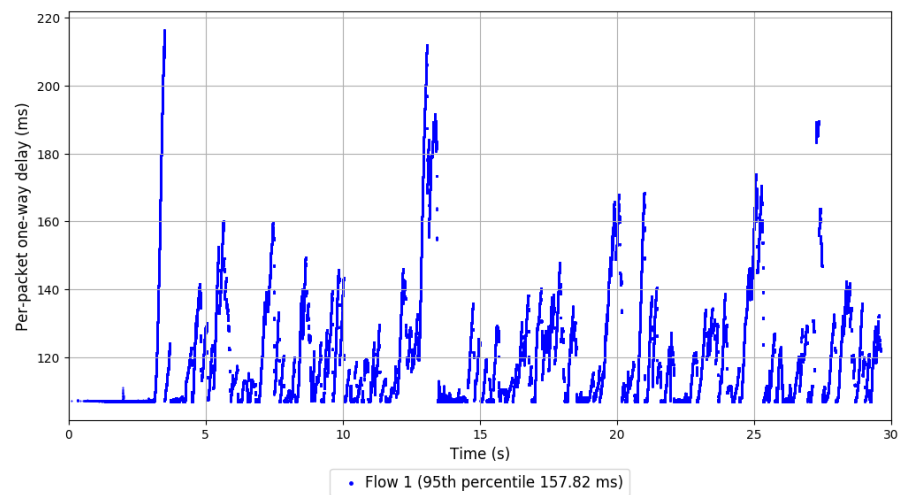
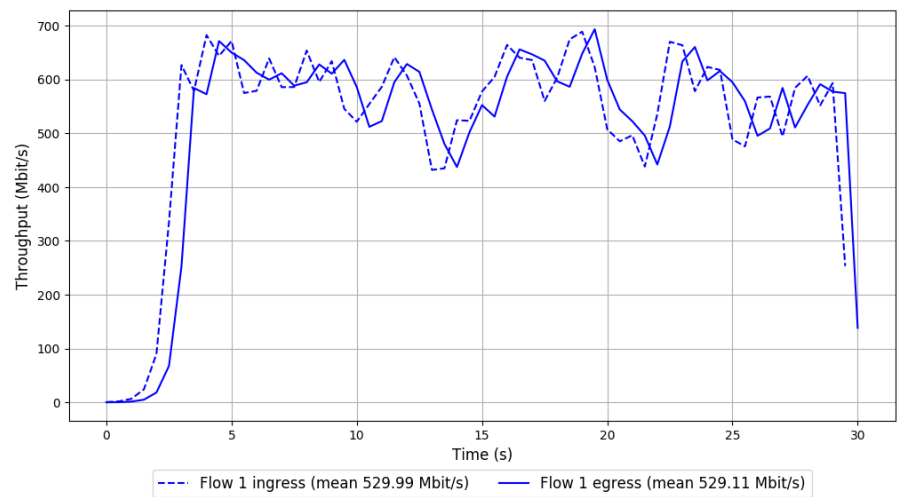
-- Flow 1:

Average throughput: 529.11 Mbit/s

95th percentile per-packet one-way delay: 157.820 ms

Loss rate: 0.89%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-08-26 17:23:14

End at: 2019-08-26 17:23:44

Local clock offset: 15.447 ms

Remote clock offset: 7.041 ms

Below is generated by plot.py at 2019-08-26 20:20:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 553.83 Mbit/s

95th percentile per-packet one-way delay: 152.370 ms

Loss rate: 0.88%

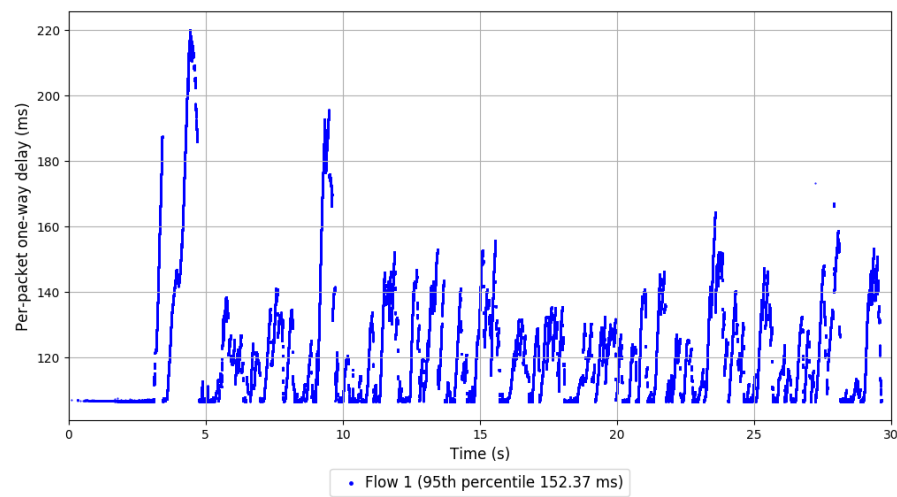
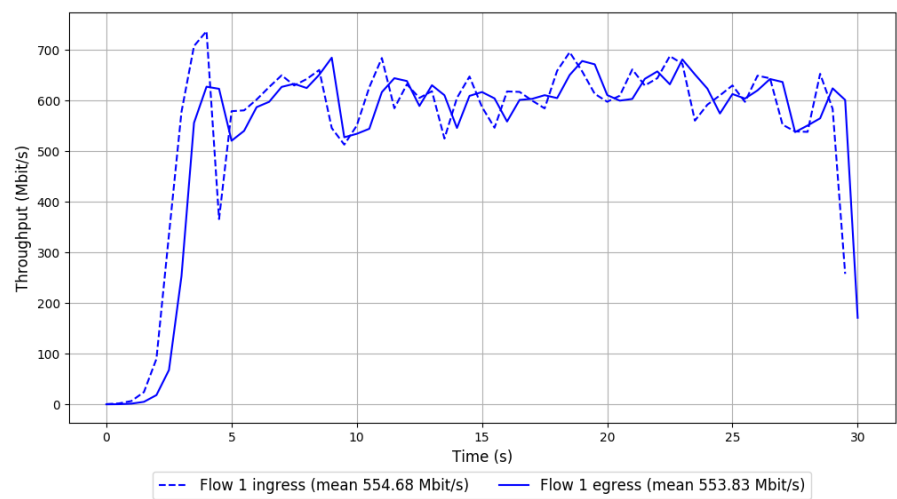
-- Flow 1:

Average throughput: 553.83 Mbit/s

95th percentile per-packet one-way delay: 152.370 ms

Loss rate: 0.88%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-08-26 17:59:40

End at: 2019-08-26 18:00:10

Local clock offset: 7.655 ms

Remote clock offset: 2.883 ms

Below is generated by plot.py at 2019-08-26 20:24:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 582.96 Mbit/s

95th percentile per-packet one-way delay: 143.615 ms

Loss rate: 0.73%

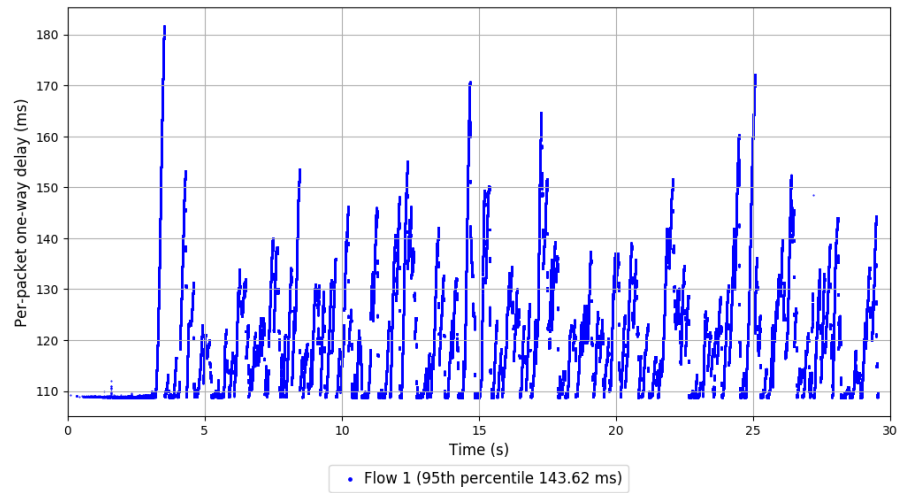
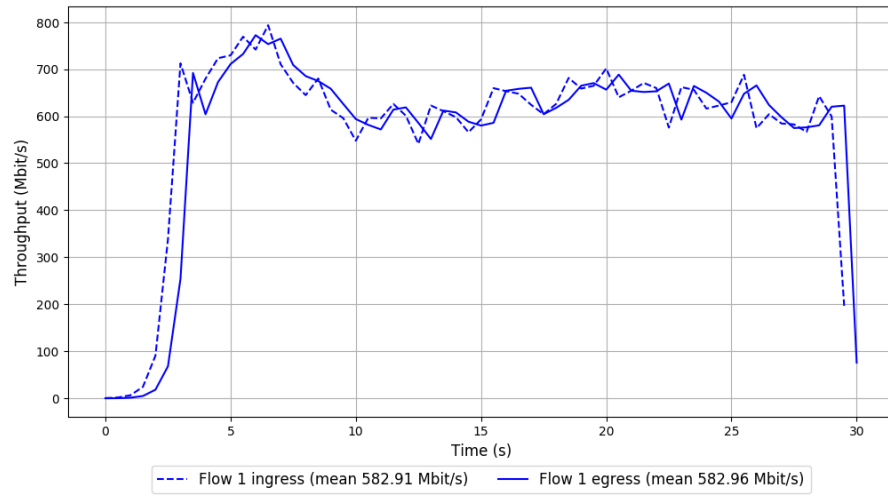
-- Flow 1:

Average throughput: 582.96 Mbit/s

95th percentile per-packet one-way delay: 143.615 ms

Loss rate: 0.73%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-08-26 18:36:14

End at: 2019-08-26 18:36:44

Local clock offset: 2.018 ms

Remote clock offset: 1.306 ms

Below is generated by plot.py at 2019-08-26 20:27:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.52 Mbit/s

95th percentile per-packet one-way delay: 155.436 ms

Loss rate: 0.85%

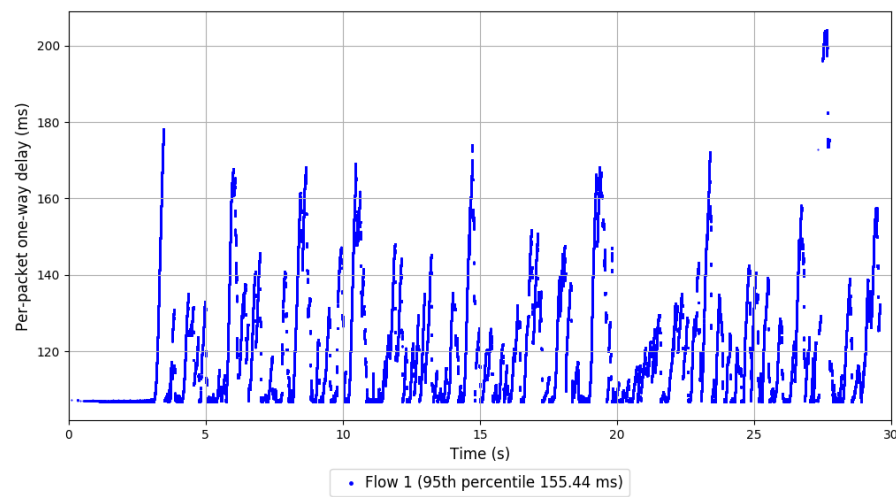
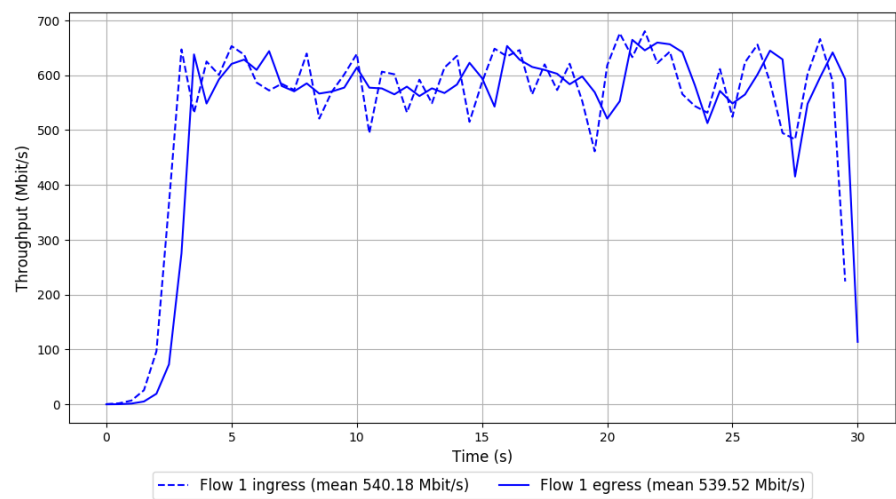
-- Flow 1:

Average throughput: 539.52 Mbit/s

95th percentile per-packet one-way delay: 155.436 ms

Loss rate: 0.85%

Run 5: Report of Muses_DecisionTree — Data Link

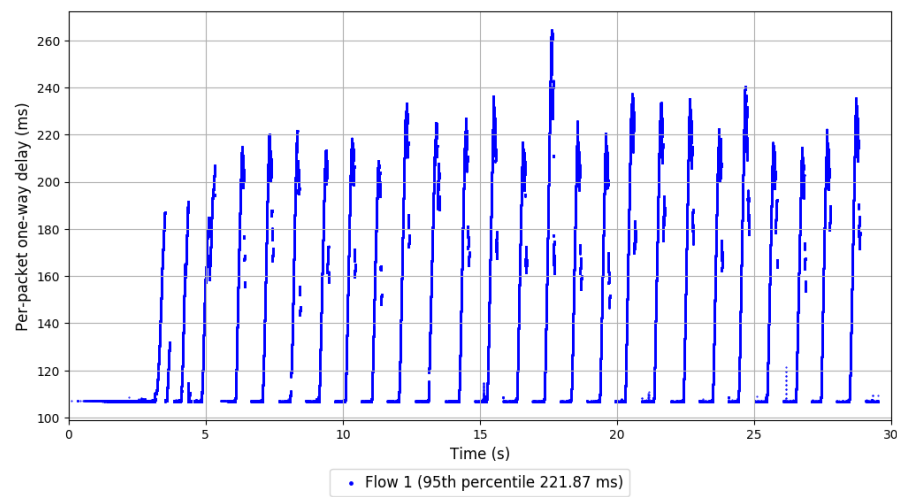
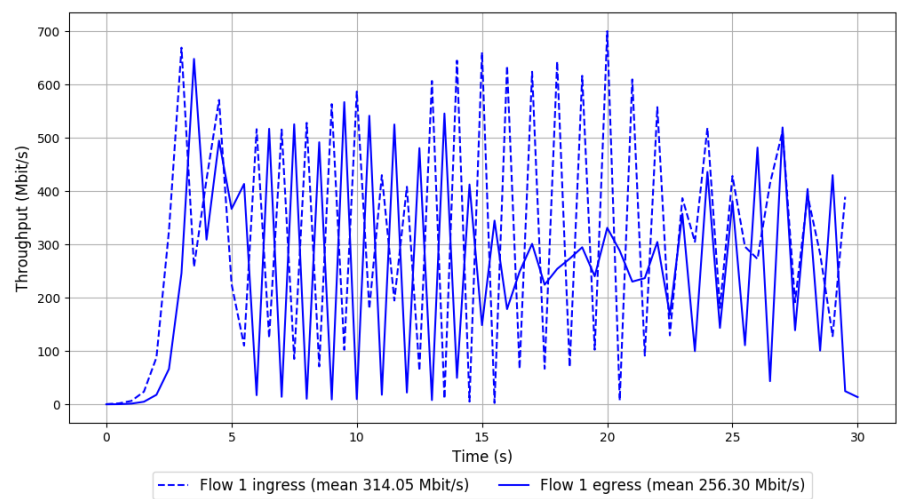



```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-26 16:24:29
End at: 2019-08-26 16:24:59
Local clock offset: 24.163 ms
Remote clock offset: 19.515 ms

# Below is generated by plot.py at 2019-08-26 20:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.30 Mbit/s
95th percentile per-packet one-way delay: 221.865 ms
Loss rate: 18.98%
-- Flow 1:
Average throughput: 256.30 Mbit/s
95th percentile per-packet one-way delay: 221.865 ms
Loss rate: 18.98%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

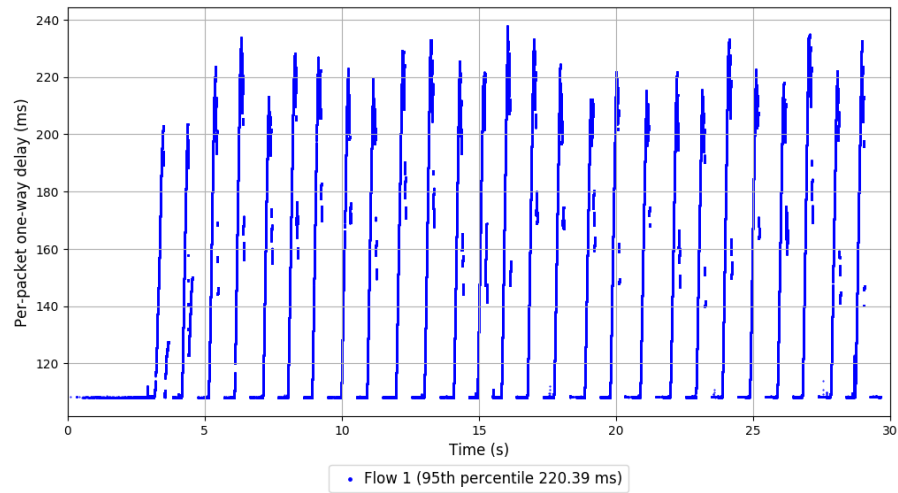
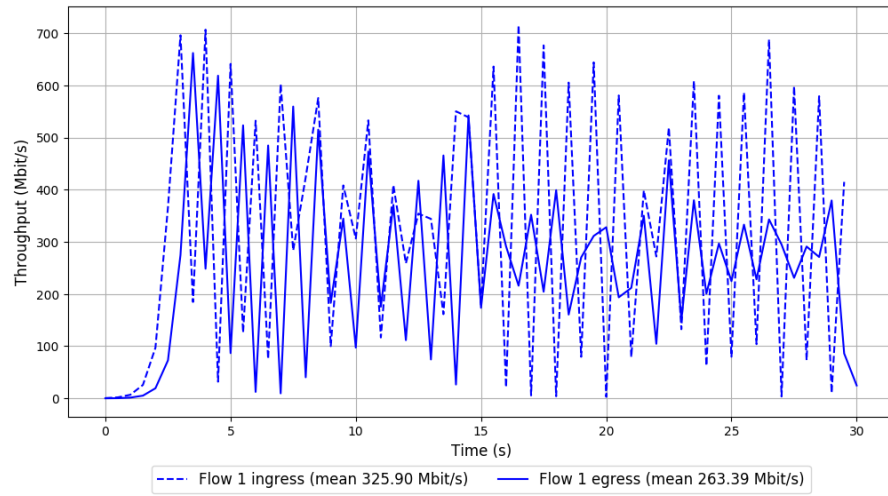


Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-26 17:00:34
End at: 2019-08-26 17:01:04
Local clock offset: 38.066 ms
Remote clock offset: 29.853 ms

Below is generated by plot.py at 2019-08-26 20:27:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 263.39 Mbit/s
95th percentile per-packet one-way delay: 220.386 ms
Loss rate: 19.76%
-- Flow 1:
Average throughput: 263.39 Mbit/s
95th percentile per-packet one-way delay: 220.386 ms
Loss rate: 19.76%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-26 17:37:00

End at: 2019-08-26 17:37:30

Local clock offset: 15.461 ms

Remote clock offset: 6.09 ms

Below is generated by plot.py at 2019-08-26 20:27:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.46 Mbit/s

95th percentile per-packet one-way delay: 225.742 ms

Loss rate: 21.03%

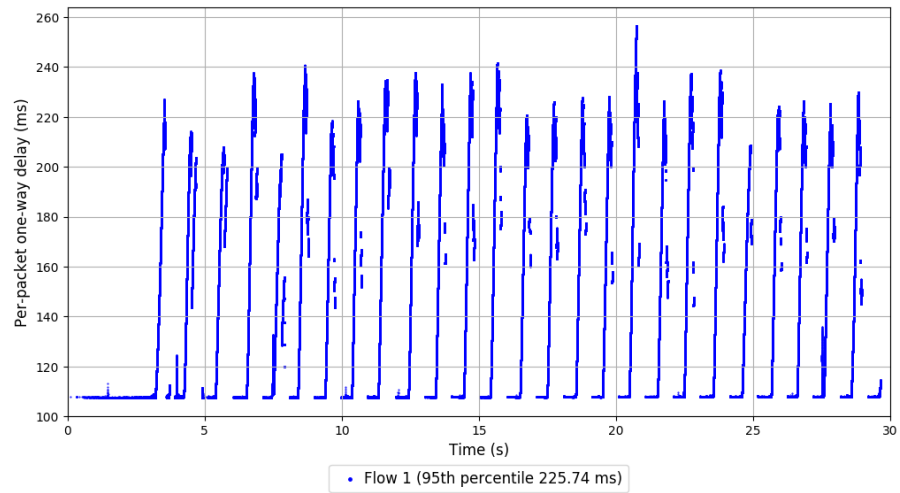
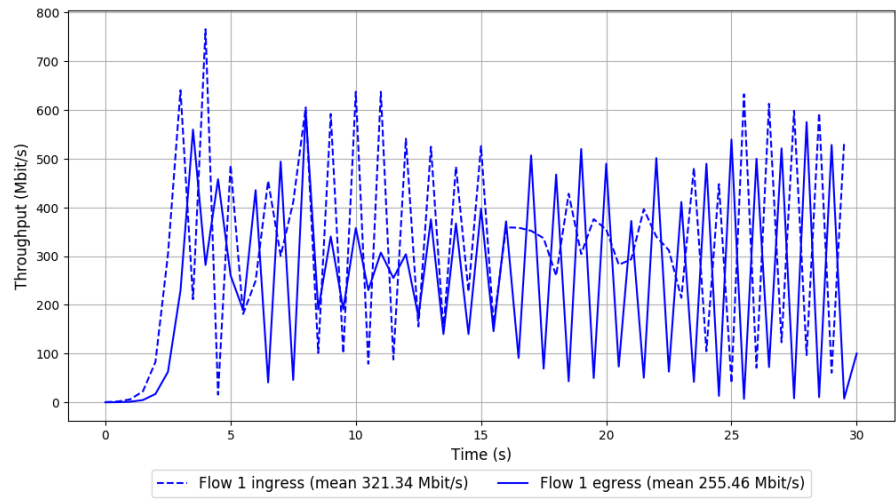
-- Flow 1:

Average throughput: 255.46 Mbit/s

95th percentile per-packet one-way delay: 225.742 ms

Loss rate: 21.03%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-26 18:13:32

End at: 2019-08-26 18:14:02

Local clock offset: 5.73 ms

Remote clock offset: 2.103 ms

Below is generated by plot.py at 2019-08-26 20:27:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 288.40 Mbit/s

95th percentile per-packet one-way delay: 215.907 ms

Loss rate: 14.30%

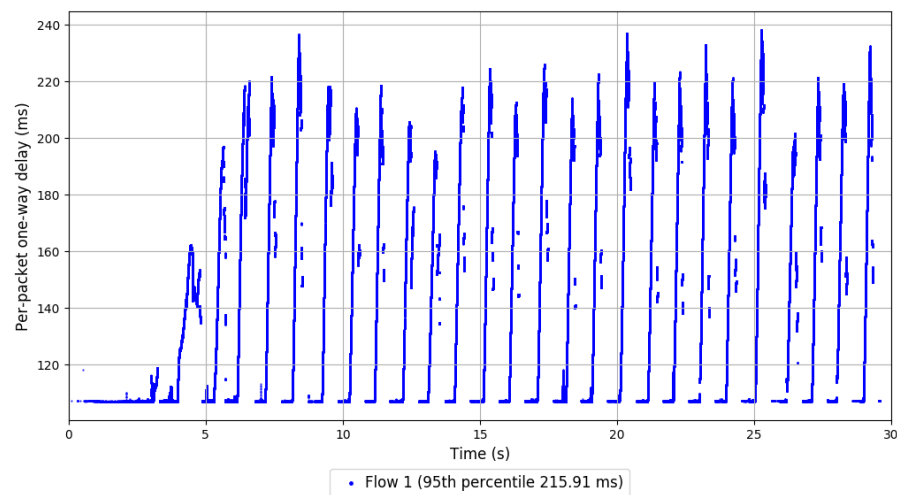
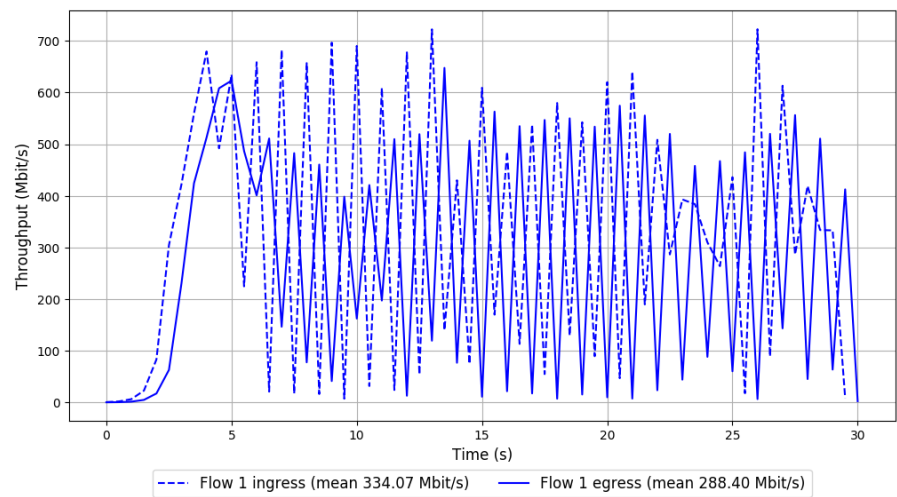
-- Flow 1:

Average throughput: 288.40 Mbit/s

95th percentile per-packet one-way delay: 215.907 ms

Loss rate: 14.30%

Run 4: Report of Muses_DecisionTreeH0 — Data Link

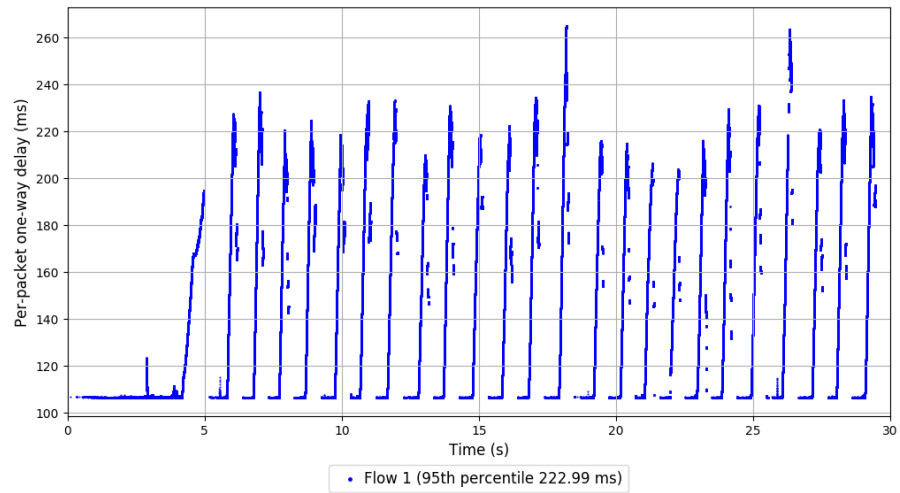
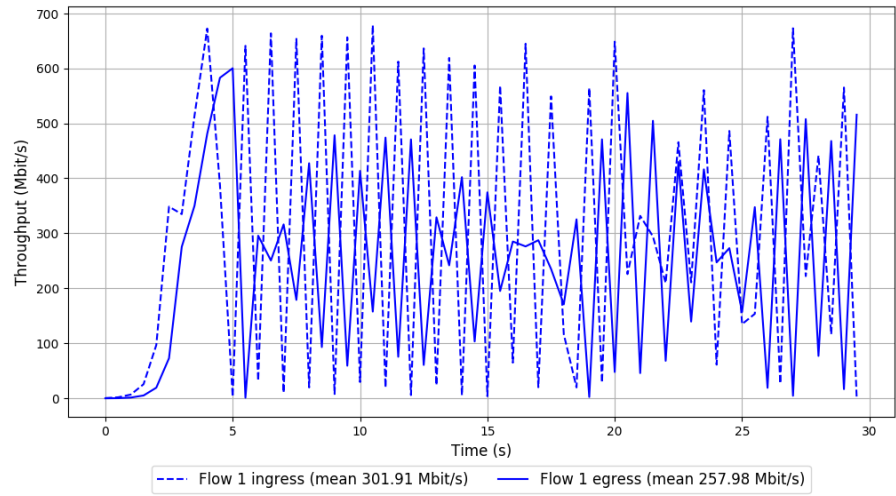



```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-26 18:50:01
End at: 2019-08-26 18:50:31
Local clock offset: 0.989 ms
Remote clock offset: 0.75 ms

# Below is generated by plot.py at 2019-08-26 20:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.98 Mbit/s
95th percentile per-packet one-way delay: 222.987 ms
Loss rate: 15.31%
-- Flow 1:
Average throughput: 257.98 Mbit/s
95th percentile per-packet one-way delay: 222.987 ms
Loss rate: 15.31%
```

Run 5: Report of Muses_DecisionTreeH0 — Data Link

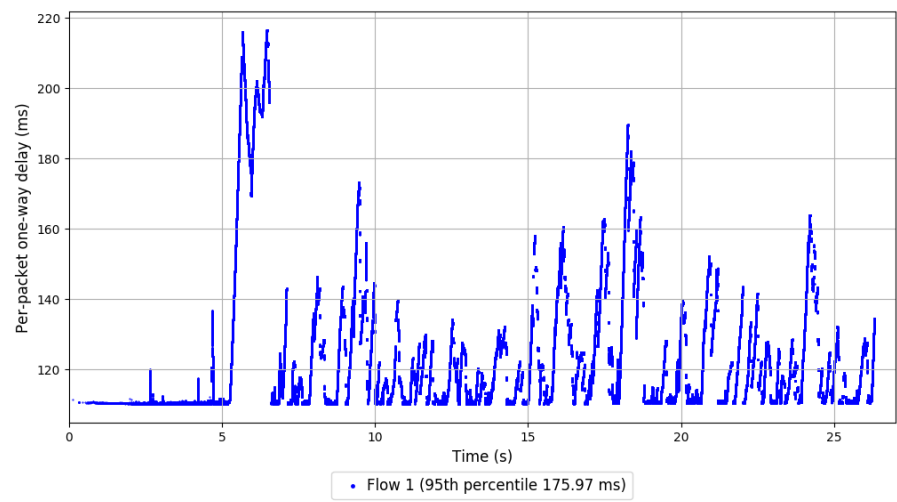
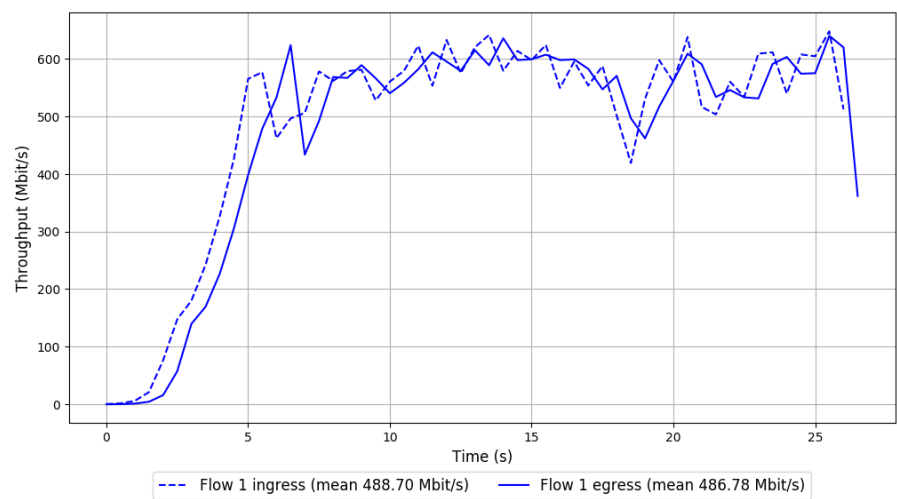


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-26 15:55:33
End at: 2019-08-26 15:56:03
Local clock offset: 5.173 ms
Remote clock offset: 4.743 ms

# Below is generated by plot.py at 2019-08-26 20:27:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 486.78 Mbit/s
95th percentile per-packet one-way delay: 175.966 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 486.78 Mbit/s
95th percentile per-packet one-way delay: 175.966 ms
Loss rate: 1.23%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

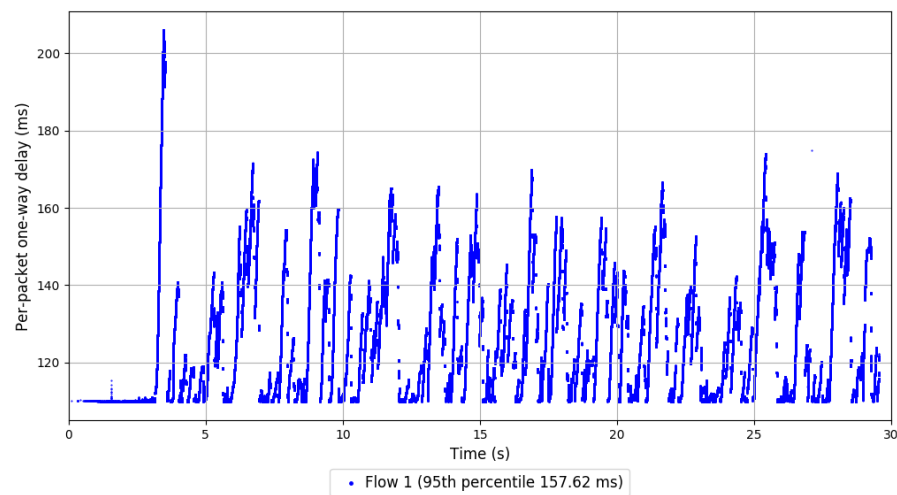
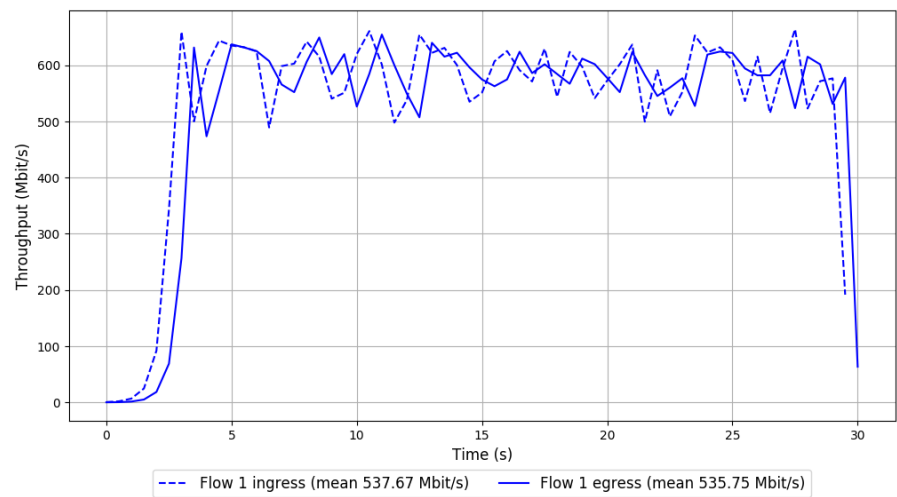


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-26 16:31:26
End at: 2019-08-26 16:31:56
Local clock offset: 20.774 ms
Remote clock offset: 16.188 ms

Below is generated by plot.py at 2019-08-26 20:33:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 535.75 Mbit/s
95th percentile per-packet one-way delay: 157.624 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 535.75 Mbit/s
95th percentile per-packet one-way delay: 157.624 ms
Loss rate: 1.10%

Run 2: Report of Muses_DecisionTreeR0 — Data Link

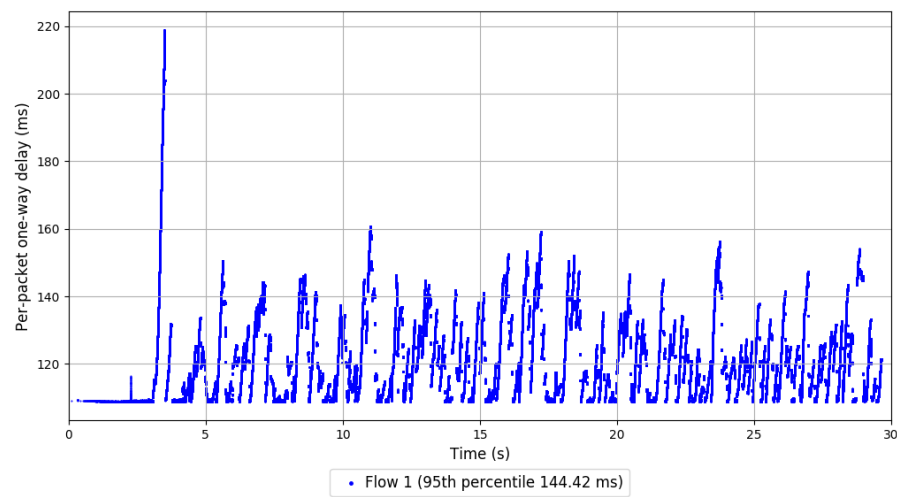
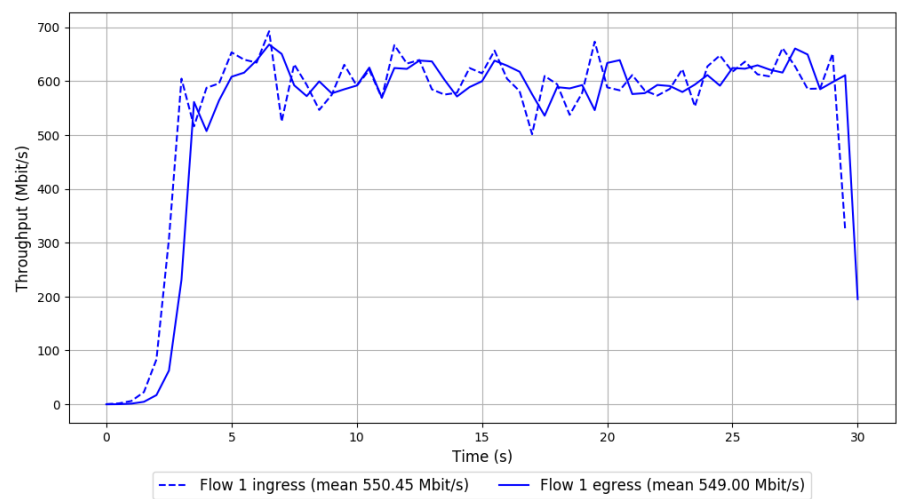


Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-26 17:07:31
End at: 2019-08-26 17:08:01
Local clock offset: 20.511 ms
Remote clock offset: 15.019 ms

Below is generated by plot.py at 2019-08-26 20:34:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 549.00 Mbit/s
95th percentile per-packet one-way delay: 144.416 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 549.00 Mbit/s
95th percentile per-packet one-way delay: 144.416 ms
Loss rate: 1.00%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-26 17:44:01

End at: 2019-08-26 17:44:31

Local clock offset: 9.061 ms

Remote clock offset: 3.771 ms

Below is generated by plot.py at 2019-08-26 20:34:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 540.46 Mbit/s

95th percentile per-packet one-way delay: 147.164 ms

Loss rate: 0.90%

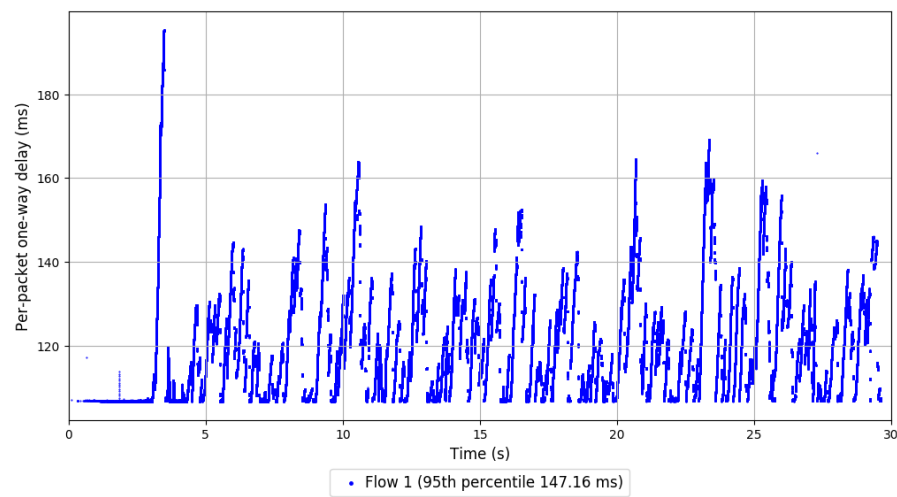
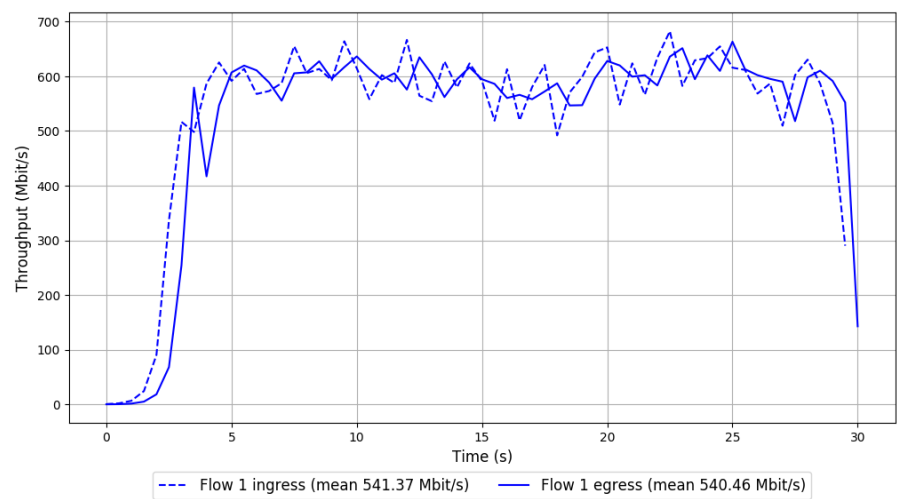
-- Flow 1:

Average throughput: 540.46 Mbit/s

95th percentile per-packet one-way delay: 147.164 ms

Loss rate: 0.90%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-26 18:20:32

End at: 2019-08-26 18:21:02

Local clock offset: 2.851 ms

Remote clock offset: 1.294 ms

Below is generated by plot.py at 2019-08-26 20:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 556.80 Mbit/s

95th percentile per-packet one-way delay: 149.833 ms

Loss rate: 0.95%

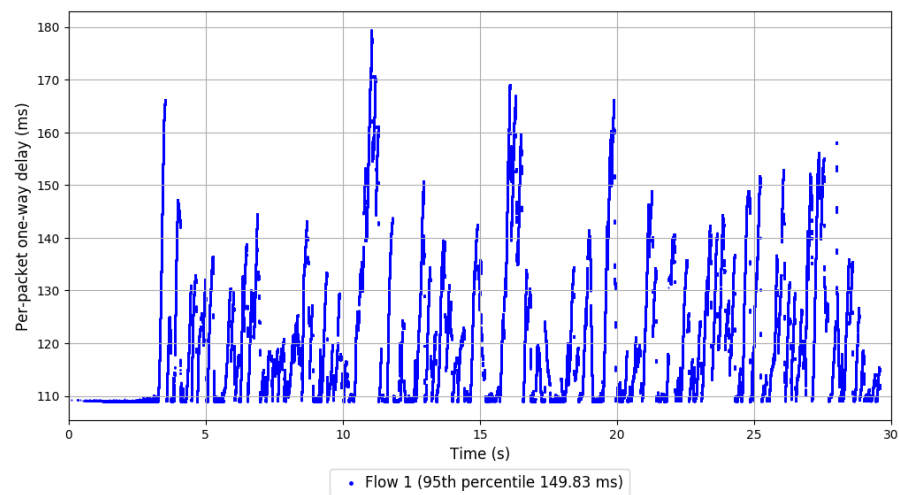
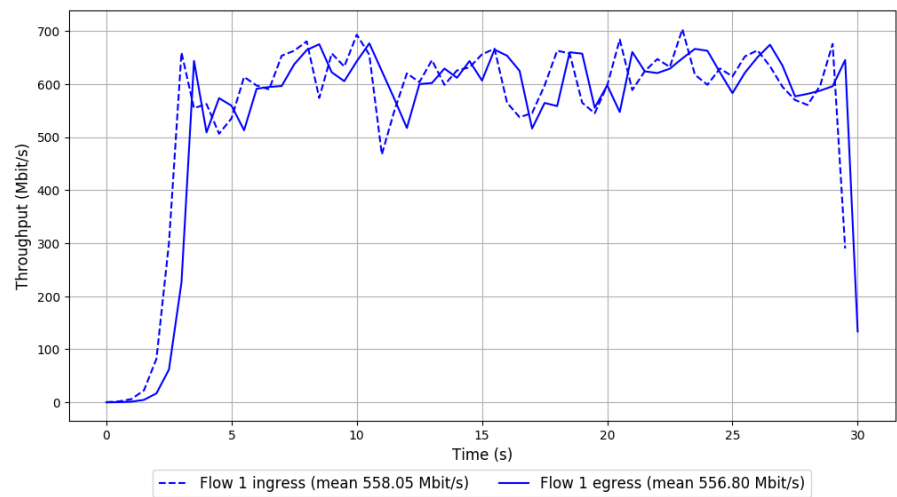
-- Flow 1:

Average throughput: 556.80 Mbit/s

95th percentile per-packet one-way delay: 149.833 ms

Loss rate: 0.95%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-08-26 15:53:56

End at: 2019-08-26 15:54:26

Local clock offset: 4.001 ms

Remote clock offset: 3.745 ms

Below is generated by plot.py at 2019-08-26 20:35:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.99 Mbit/s

95th percentile per-packet one-way delay: 158.184 ms

Loss rate: 1.37%

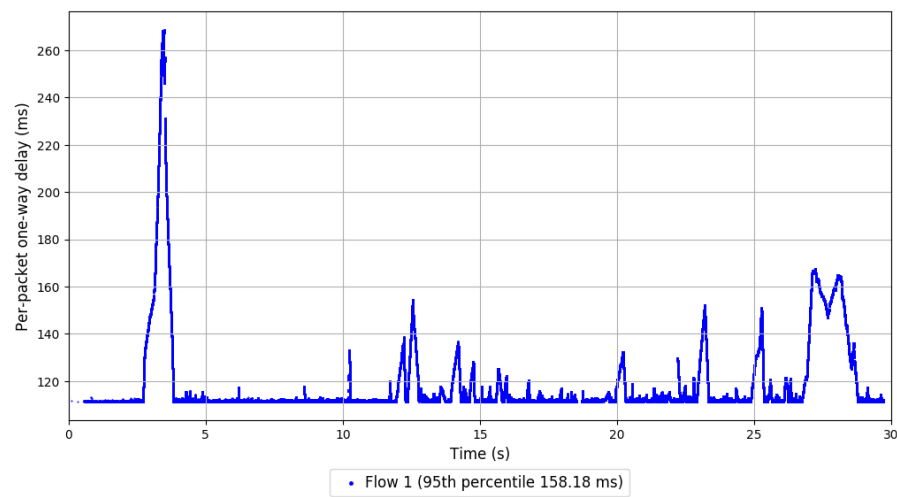
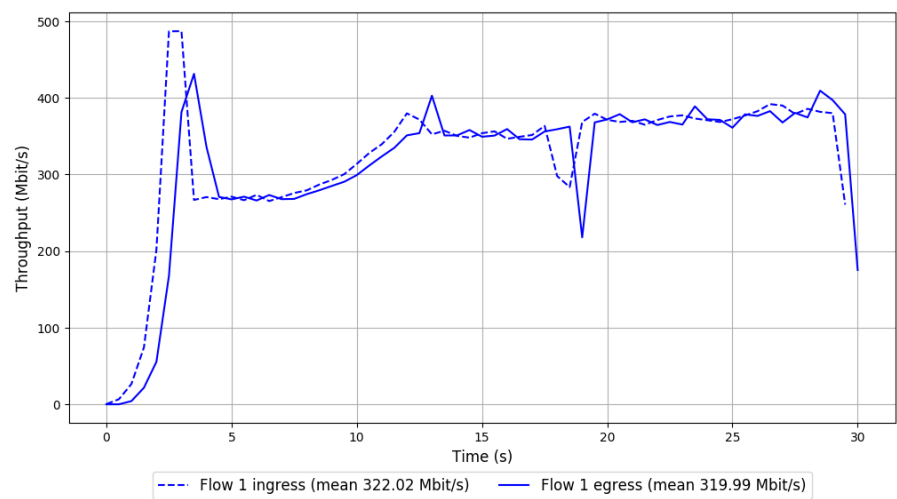
-- Flow 1:

Average throughput: 319.99 Mbit/s

95th percentile per-packet one-way delay: 158.184 ms

Loss rate: 1.37%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-08-26 16:29:53

End at: 2019-08-26 16:30:23

Local clock offset: 21.027 ms

Remote clock offset: 17.056 ms

Below is generated by plot.py at 2019-08-26 20:36:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.19 Mbit/s

95th percentile per-packet one-way delay: 131.191 ms

Loss rate: 1.87%

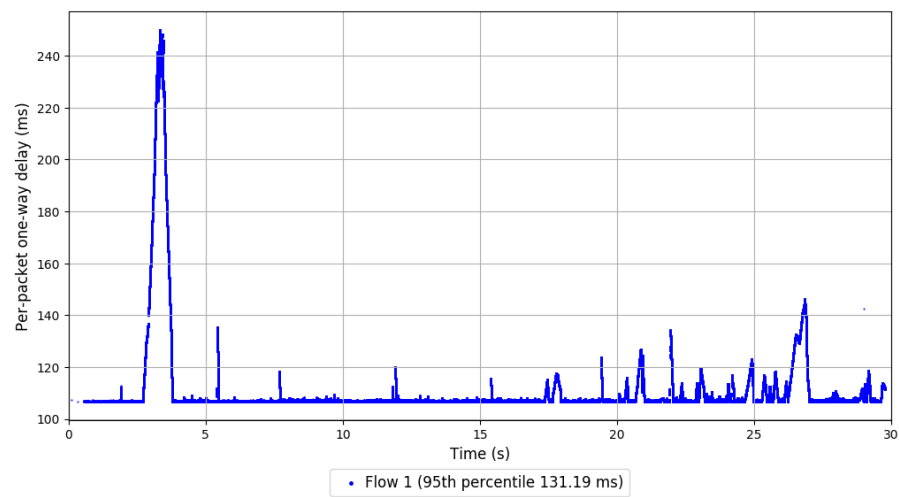
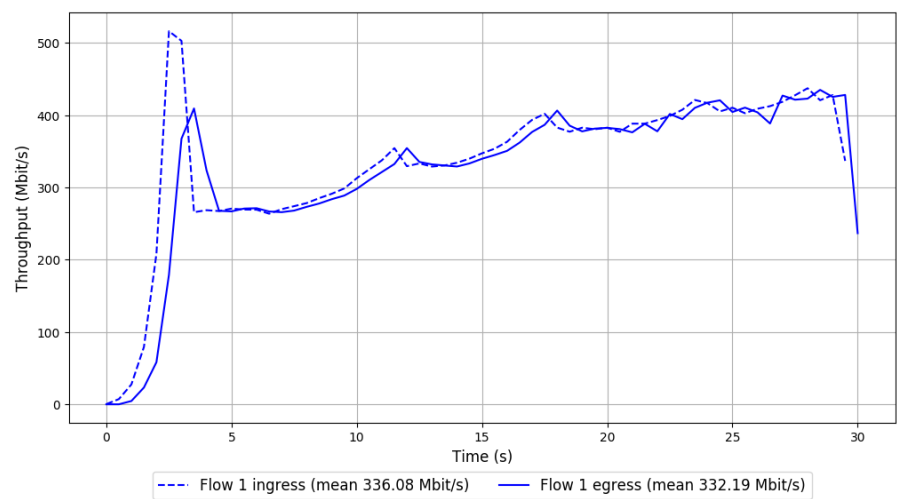
-- Flow 1:

Average throughput: 332.19 Mbit/s

95th percentile per-packet one-way delay: 131.191 ms

Loss rate: 1.87%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-08-26 17:05:57

End at: 2019-08-26 17:06:27

Local clock offset: 23.237 ms

Remote clock offset: 17.18 ms

Below is generated by plot.py at 2019-08-26 20:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.11 Mbit/s

95th percentile per-packet one-way delay: 154.643 ms

Loss rate: 1.37%

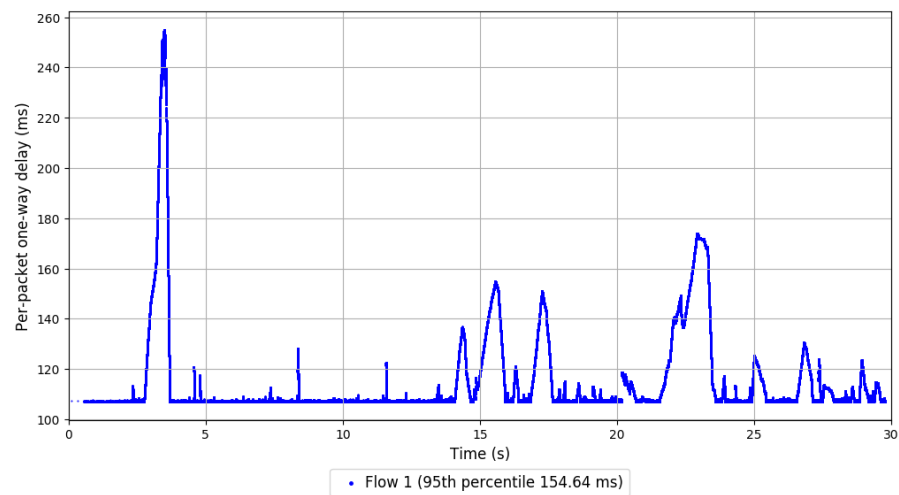
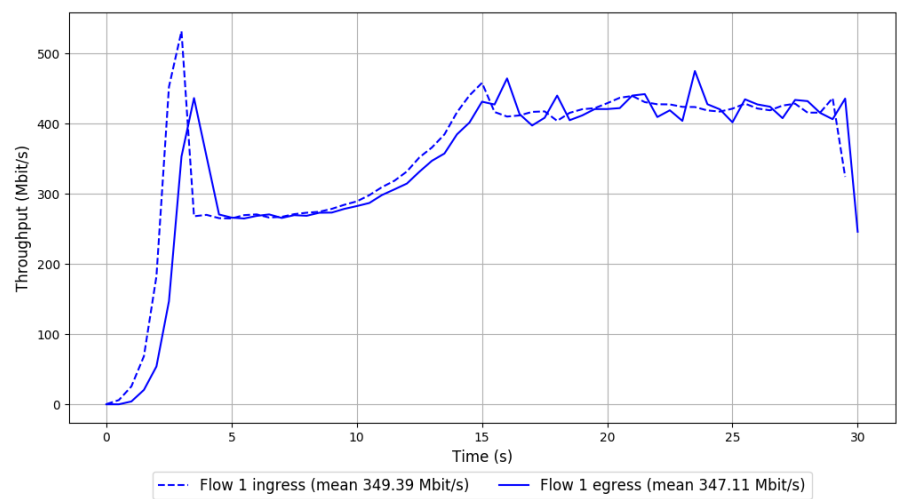
-- Flow 1:

Average throughput: 347.11 Mbit/s

95th percentile per-packet one-way delay: 154.643 ms

Loss rate: 1.37%

Run 3: Report of PCC-Allegro — Data Link

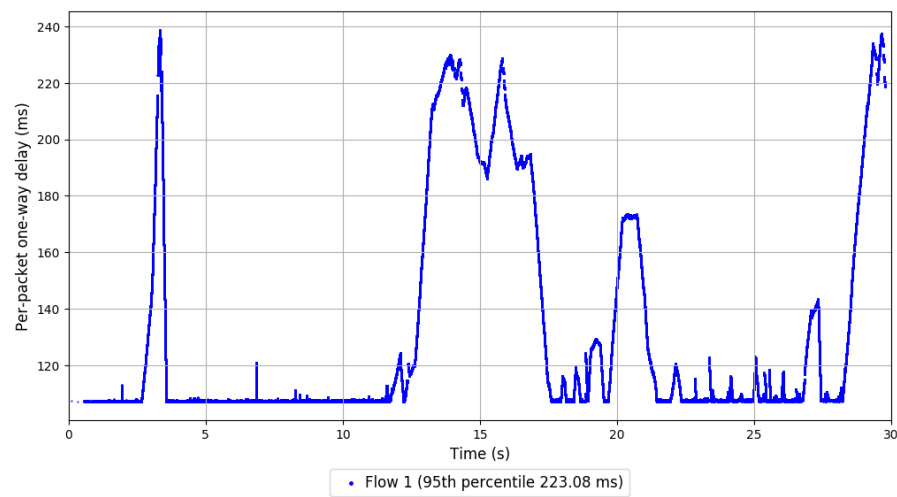
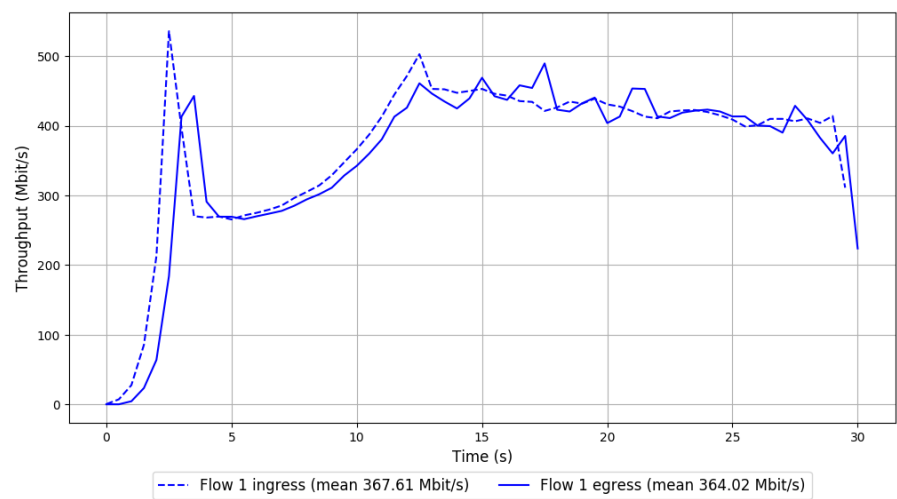


Run 4: Statistics of PCC-Allegro

Start at: 2019-08-26 17:42:25
End at: 2019-08-26 17:42:55
Local clock offset: 10.013 ms
Remote clock offset: 3.819 ms

Below is generated by plot.py at 2019-08-26 20:41:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 364.02 Mbit/s
95th percentile per-packet one-way delay: 223.084 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 364.02 Mbit/s
95th percentile per-packet one-way delay: 223.084 ms
Loss rate: 1.69%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-08-26 18:18:59

End at: 2019-08-26 18:19:29

Local clock offset: 3.211 ms

Remote clock offset: 1.39 ms

Below is generated by plot.py at 2019-08-26 20:45:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.55 Mbit/s

95th percentile per-packet one-way delay: 113.213 ms

Loss rate: 0.94%

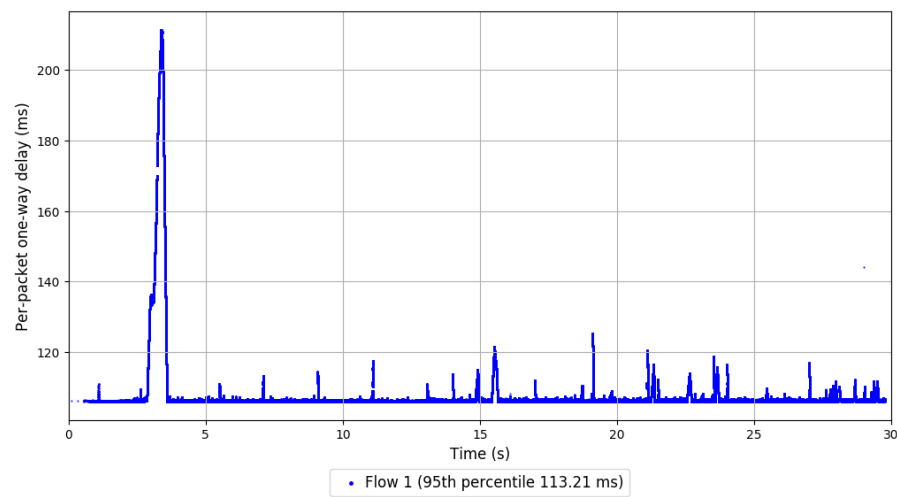
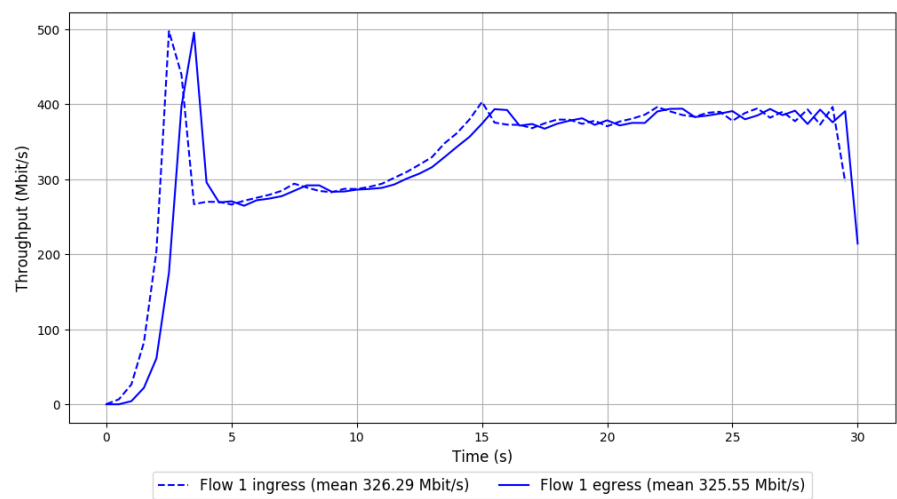
-- Flow 1:

Average throughput: 325.55 Mbit/s

95th percentile per-packet one-way delay: 113.213 ms

Loss rate: 0.94%

Run 5: Report of PCC-Allegro — Data Link

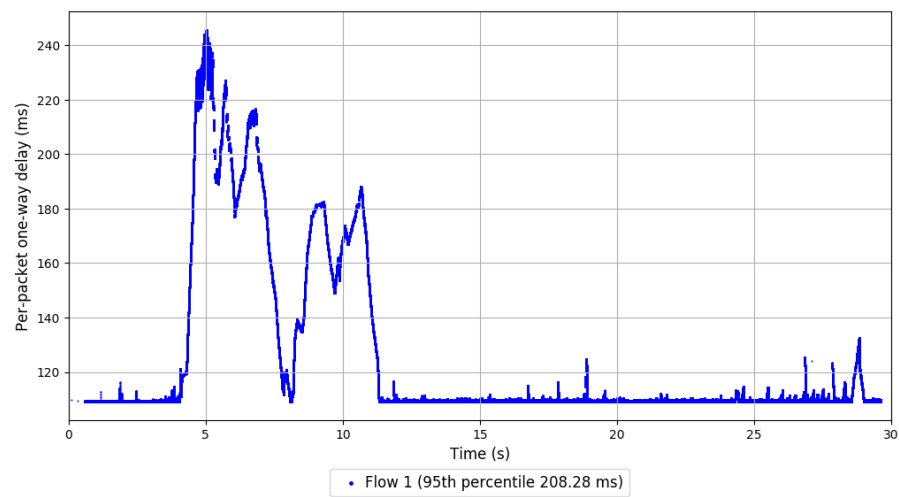
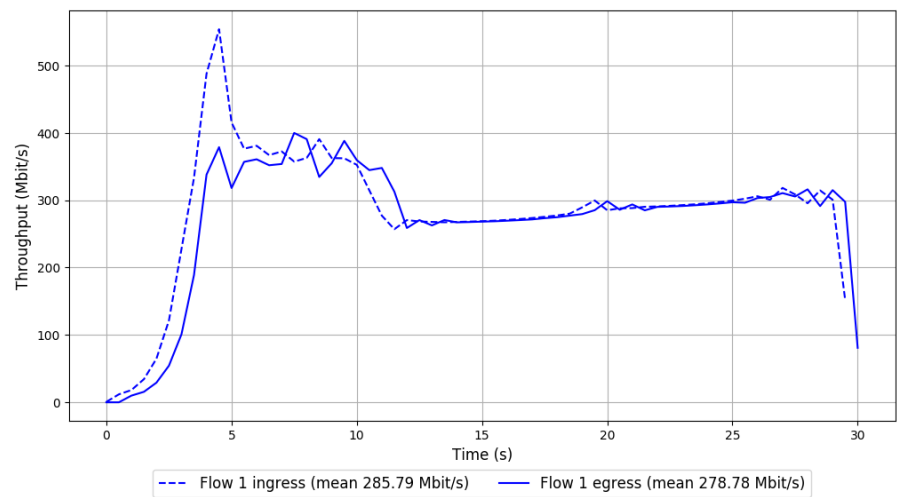


Run 1: Statistics of PCC-Expr

Start at: 2019-08-26 16:15:28
End at: 2019-08-26 16:15:58
Local clock offset: 13.45 ms
Remote clock offset: 11.112 ms

Below is generated by plot.py at 2019-08-26 20:45:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 278.78 Mbit/s
95th percentile per-packet one-way delay: 208.275 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 278.78 Mbit/s
95th percentile per-packet one-way delay: 208.275 ms
Loss rate: 3.18%

Run 1: Report of PCC-Expr — Data Link

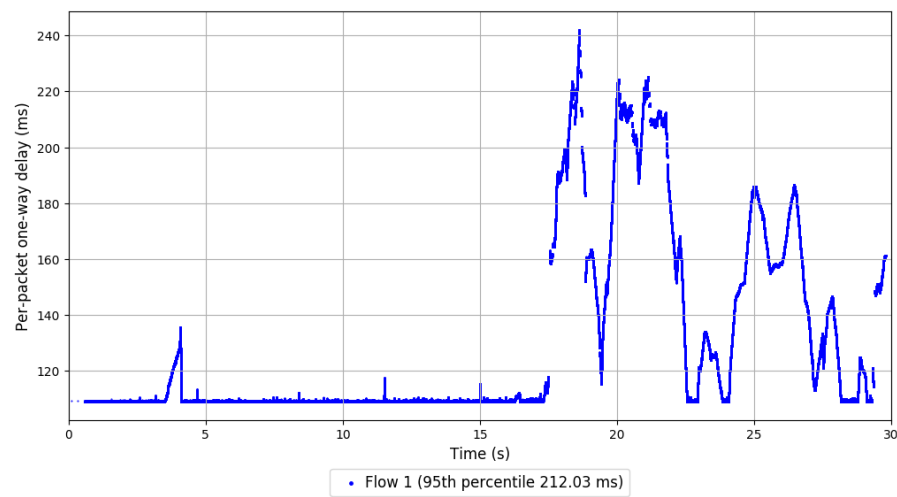
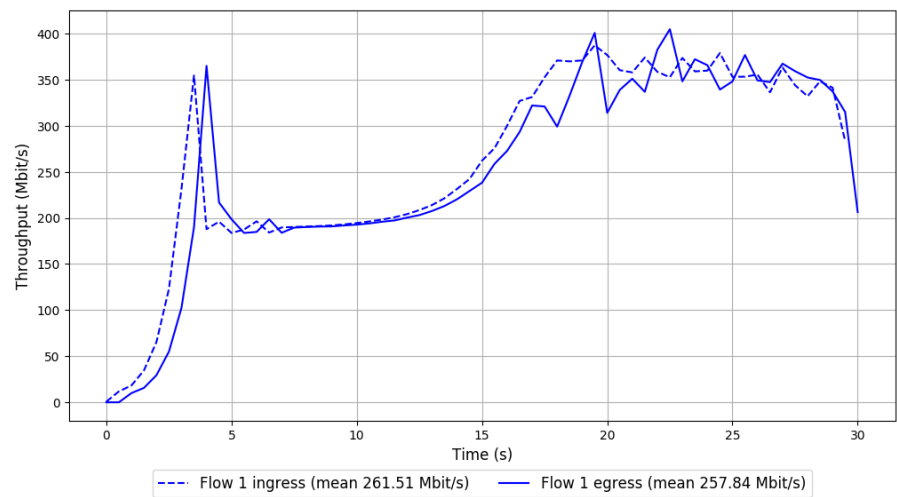


Run 2: Statistics of PCC-Expr

Start at: 2019-08-26 16:51:37
End at: 2019-08-26 16:52:07
Local clock offset: 29.941 ms
Remote clock offset: 24.621 ms

Below is generated by plot.py at 2019-08-26 20:45:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 257.84 Mbit/s
95th percentile per-packet one-way delay: 212.030 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 257.84 Mbit/s
95th percentile per-packet one-way delay: 212.030 ms
Loss rate: 2.13%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-08-26 17:28:01

End at: 2019-08-26 17:28:31

Local clock offset: 16.838 ms

Remote clock offset: 7.272 ms

Below is generated by plot.py at 2019-08-26 20:45:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.81 Mbit/s

95th percentile per-packet one-way delay: 201.416 ms

Loss rate: 1.52%

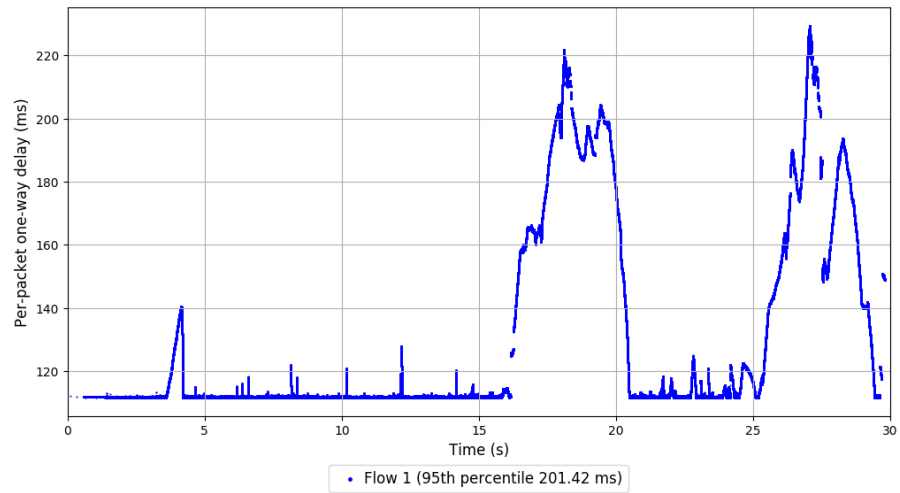
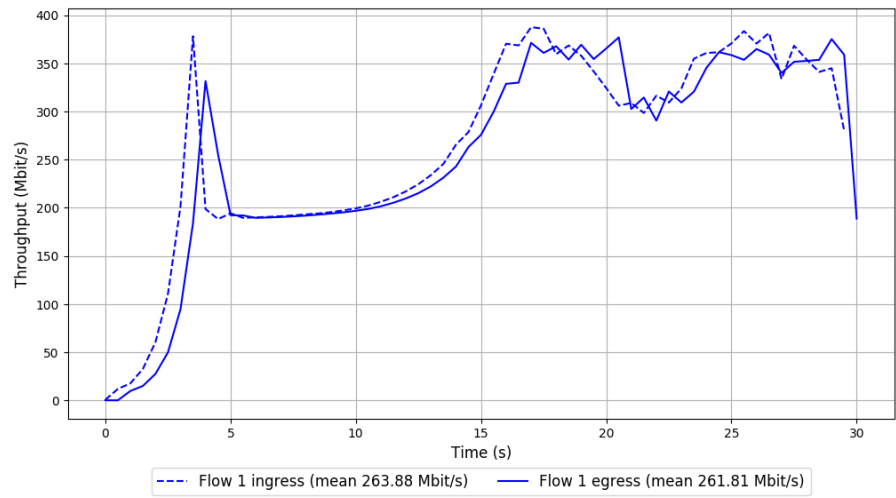
-- Flow 1:

Average throughput: 261.81 Mbit/s

95th percentile per-packet one-way delay: 201.416 ms

Loss rate: 1.52%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-08-26 18:04:26

End at: 2019-08-26 18:04:56

Local clock offset: 8.577 ms

Remote clock offset: 3.217 ms

Below is generated by plot.py at 2019-08-26 20:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.97 Mbit/s

95th percentile per-packet one-way delay: 190.067 ms

Loss rate: 0.86%

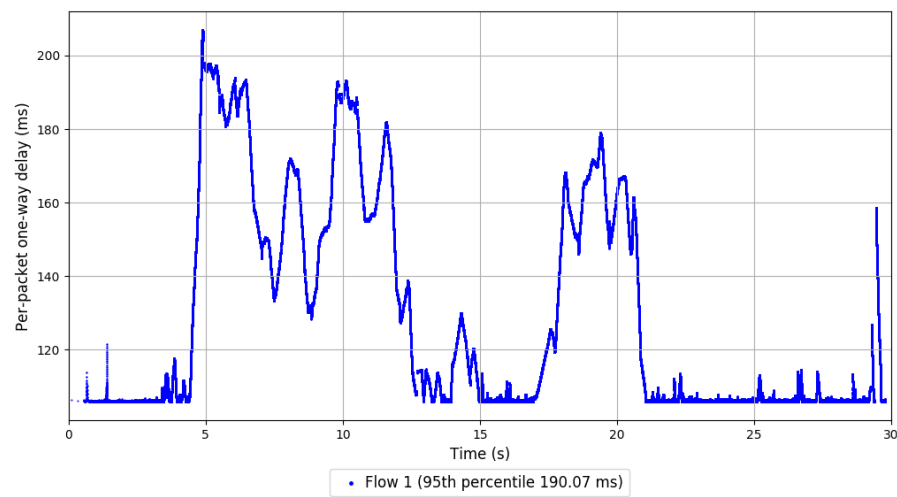
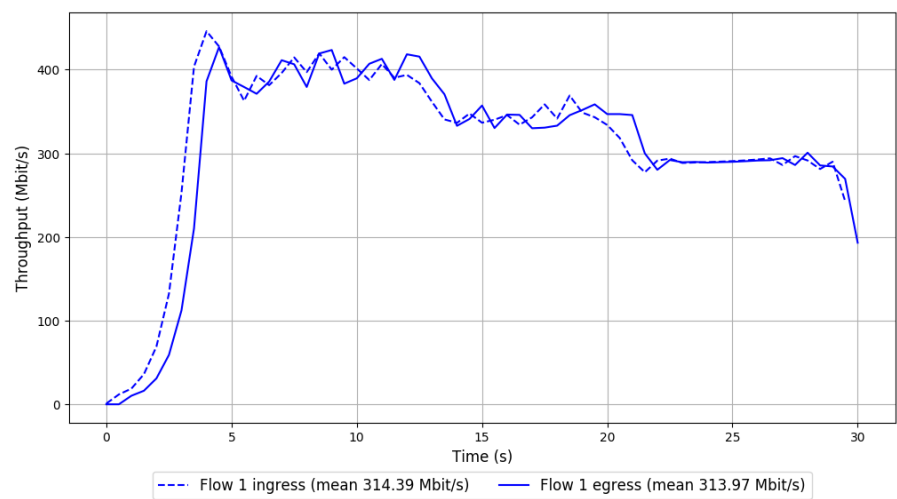
-- Flow 1:

Average throughput: 313.97 Mbit/s

95th percentile per-packet one-way delay: 190.067 ms

Loss rate: 0.86%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-08-26 18:40:58

End at: 2019-08-26 18:41:29

Local clock offset: 2.096 ms

Remote clock offset: 1.495 ms

Below is generated by plot.py at 2019-08-26 20:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.36 Mbit/s

95th percentile per-packet one-way delay: 191.166 ms

Loss rate: 1.38%

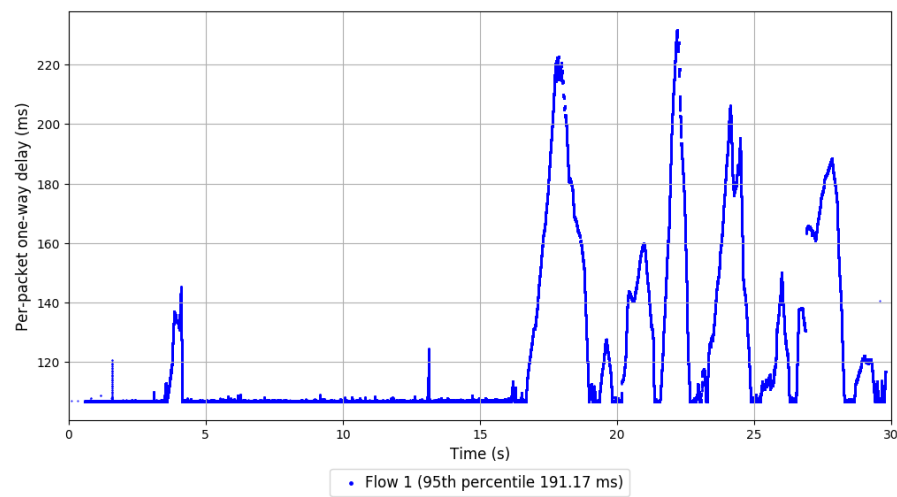
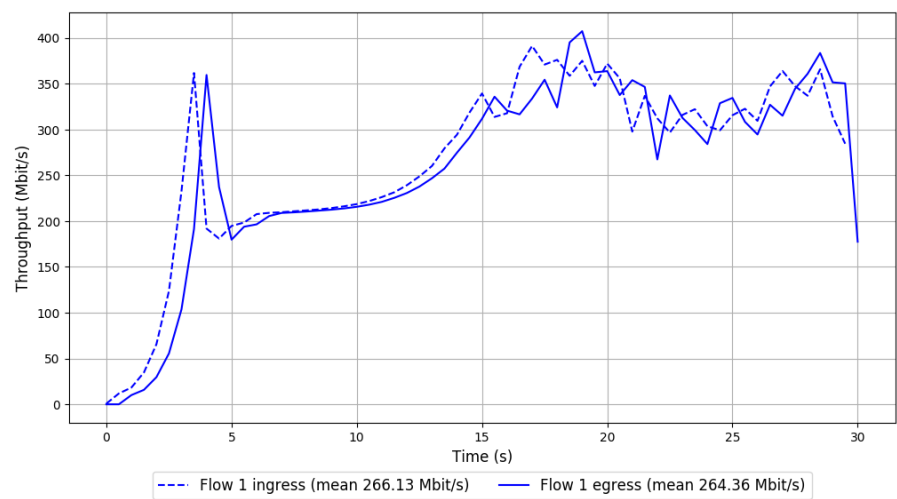
-- Flow 1:

Average throughput: 264.36 Mbit/s

95th percentile per-packet one-way delay: 191.166 ms

Loss rate: 1.38%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-08-26 16:28:40

End at: 2019-08-26 16:29:10

Local clock offset: 22.5 ms

Remote clock offset: 18.163 ms

Below is generated by plot.py at 2019-08-26 20:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.81 Mbit/s

95th percentile per-packet one-way delay: 109.498 ms

Loss rate: 1.39%

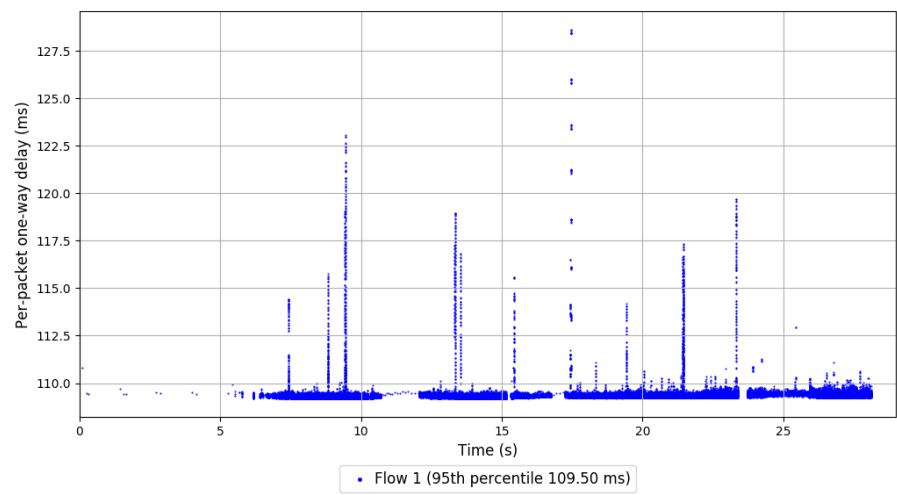
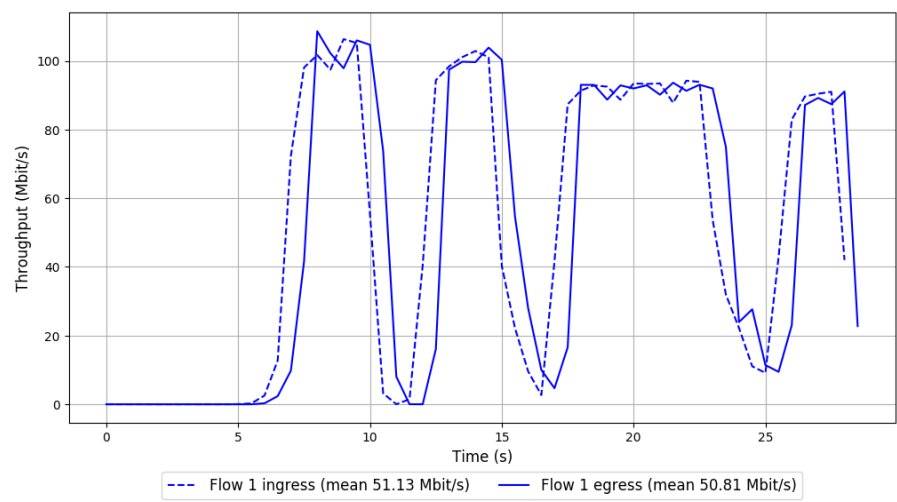
-- Flow 1:

Average throughput: 50.81 Mbit/s

95th percentile per-packet one-way delay: 109.498 ms

Loss rate: 1.39%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-08-26 17:04:43

End at: 2019-08-26 17:05:13

Local clock offset: 25.943 ms

Remote clock offset: 19.217 ms

Below is generated by plot.py at 2019-08-26 20:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.59 Mbit/s

95th percentile per-packet one-way delay: 110.470 ms

Loss rate: 1.04%

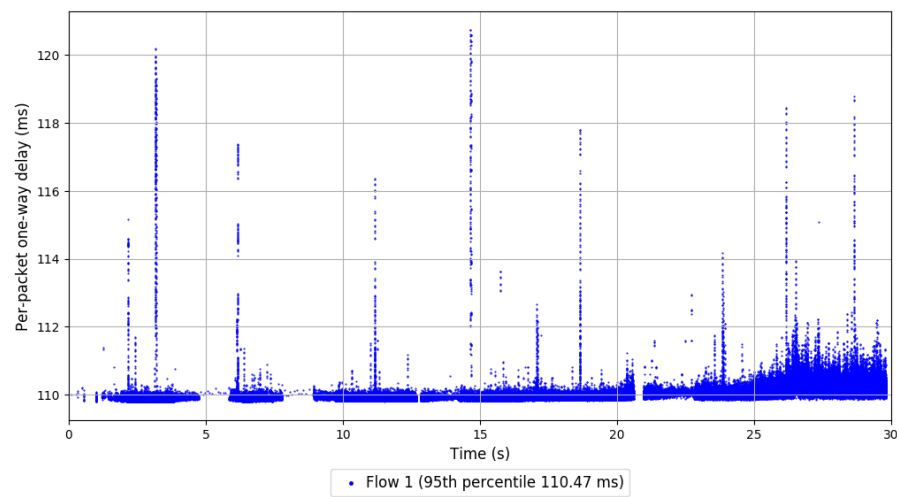
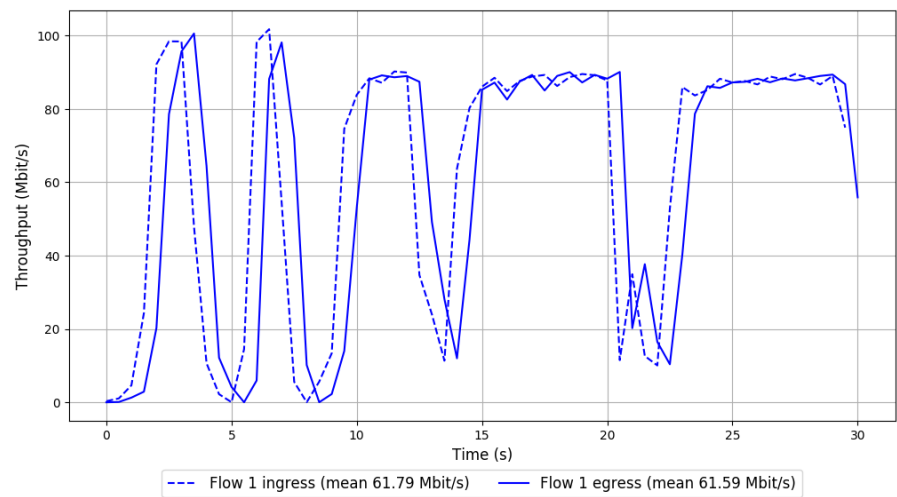
-- Flow 1:

Average throughput: 61.59 Mbit/s

95th percentile per-packet one-way delay: 110.470 ms

Loss rate: 1.04%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-08-26 17:41:11

End at: 2019-08-26 17:41:41

Local clock offset: 10.69 ms

Remote clock offset: 4.248 ms

Below is generated by plot.py at 2019-08-26 20:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.35 Mbit/s

95th percentile per-packet one-way delay: 107.184 ms

Loss rate: 1.08%

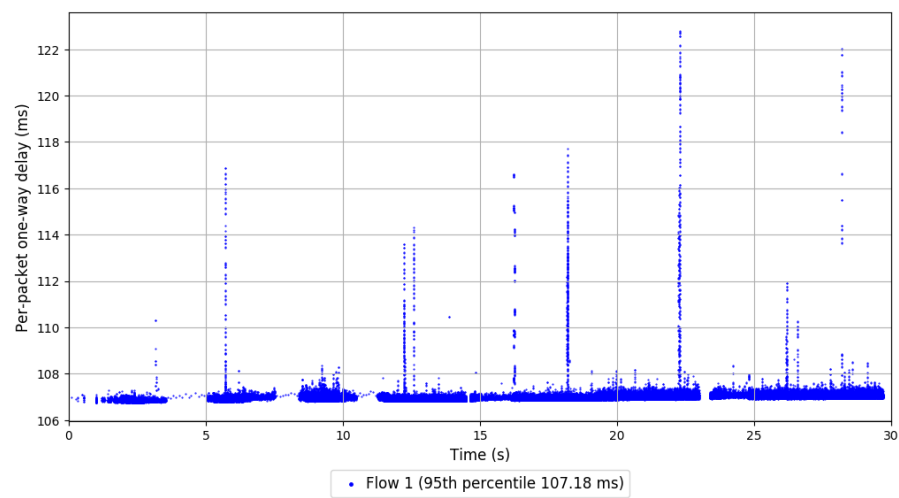
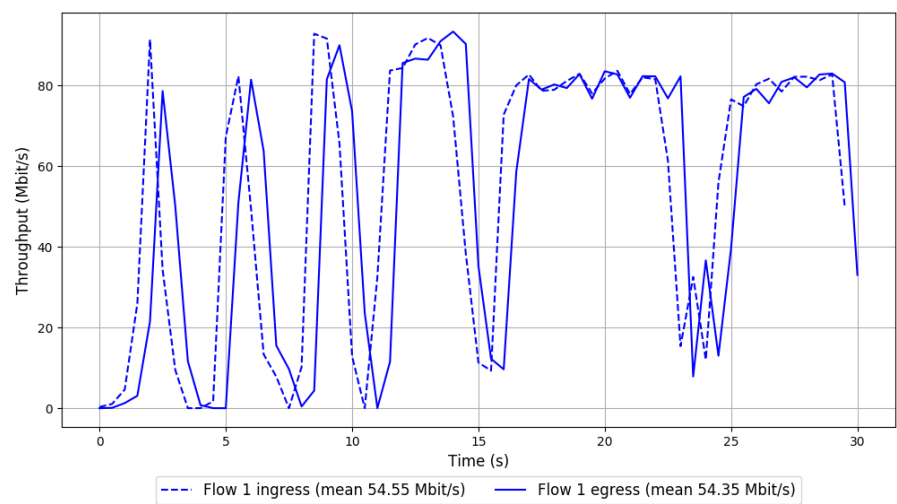
-- Flow 1:

Average throughput: 54.35 Mbit/s

95th percentile per-packet one-way delay: 107.184 ms

Loss rate: 1.08%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-08-26 18:17:45

End at: 2019-08-26 18:18:15

Local clock offset: 3.737 ms

Remote clock offset: 1.502 ms

Below is generated by plot.py at 2019-08-26 20:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.34 Mbit/s

95th percentile per-packet one-way delay: 107.007 ms

Loss rate: 1.13%

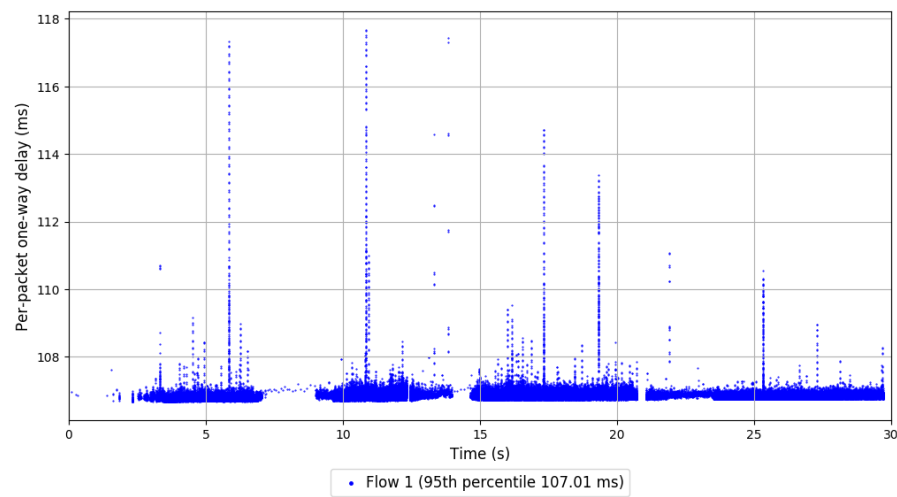
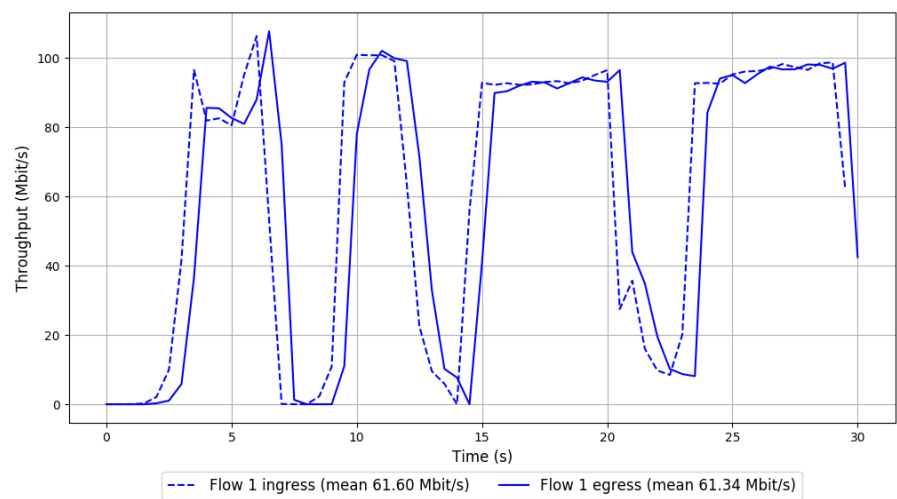
-- Flow 1:

Average throughput: 61.34 Mbit/s

95th percentile per-packet one-way delay: 107.007 ms

Loss rate: 1.13%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-08-26 18:54:04

End at: 2019-08-26 18:54:34

Local clock offset: 0.449 ms

Remote clock offset: 0.589 ms

Below is generated by plot.py at 2019-08-26 20:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.39 Mbit/s

95th percentile per-packet one-way delay: 105.796 ms

Loss rate: 1.05%

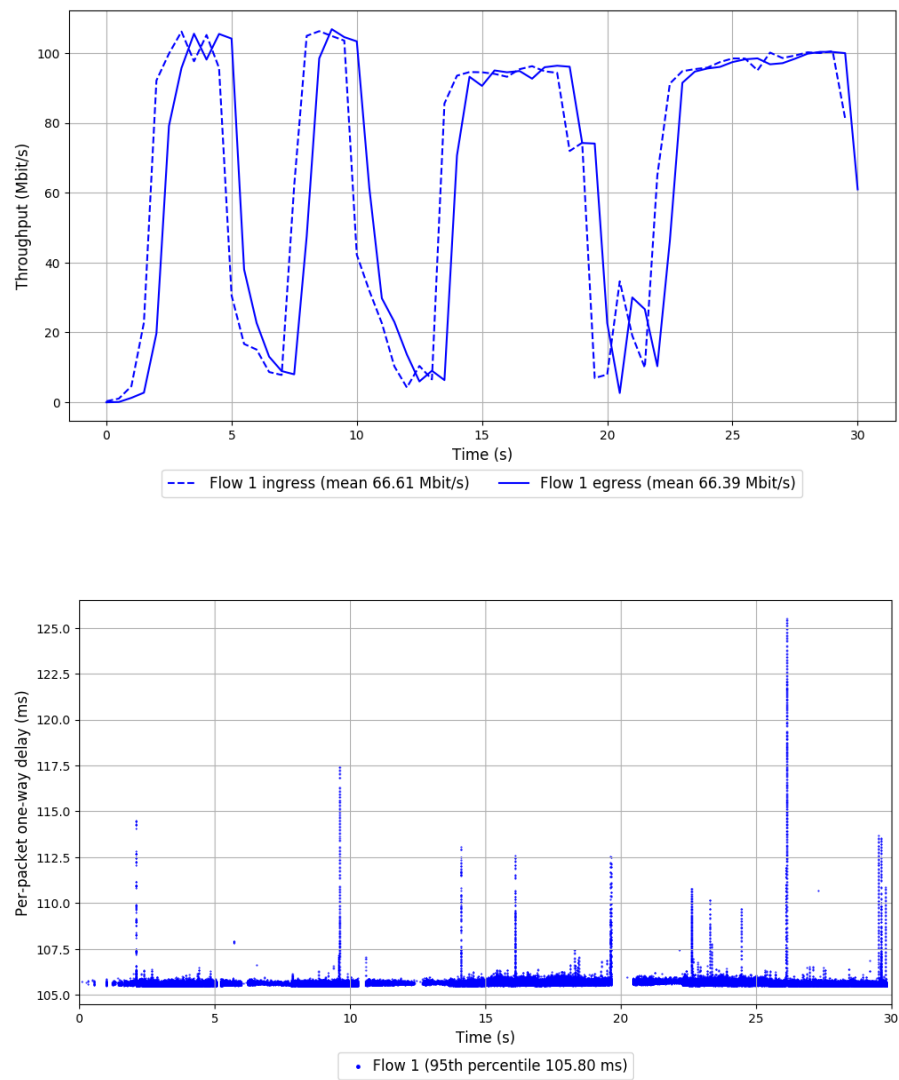
-- Flow 1:

Average throughput: 66.39 Mbit/s

95th percentile per-packet one-way delay: 105.796 ms

Loss rate: 1.05%

Run 5: Report of QUIC Cubic — Data Link

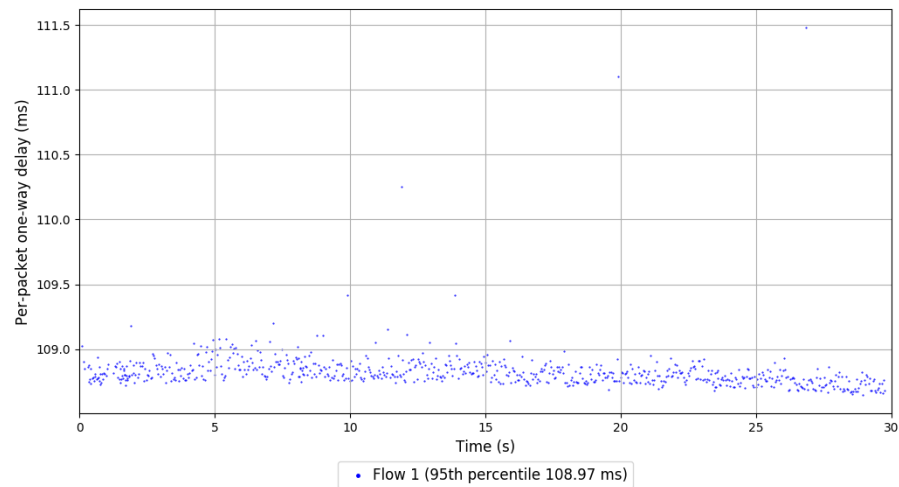
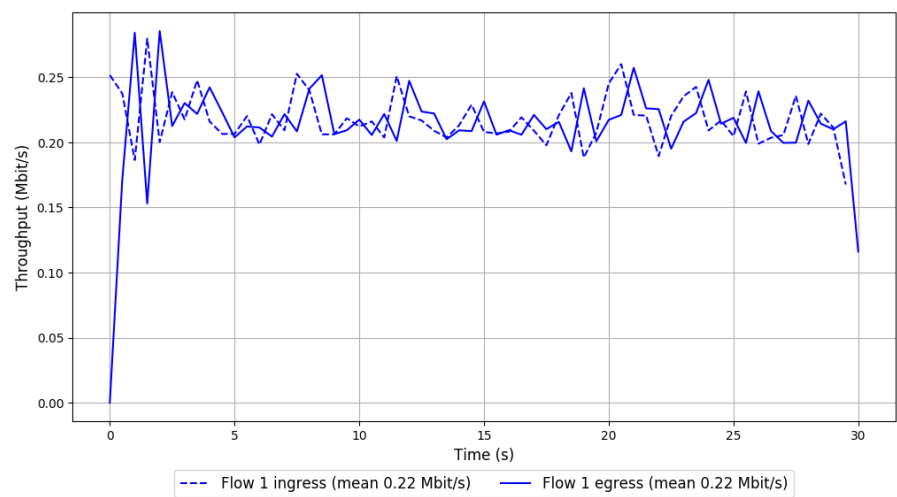


Run 1: Statistics of SCReAM

Start at: 2019-08-26 16:23:20
End at: 2019-08-26 16:23:50
Local clock offset: 22.025 ms
Remote clock offset: 18.349 ms

Below is generated by plot.py at 2019-08-26 20:47:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.975 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.975 ms
Loss rate: 0.77%

Run 1: Report of SReAM — Data Link

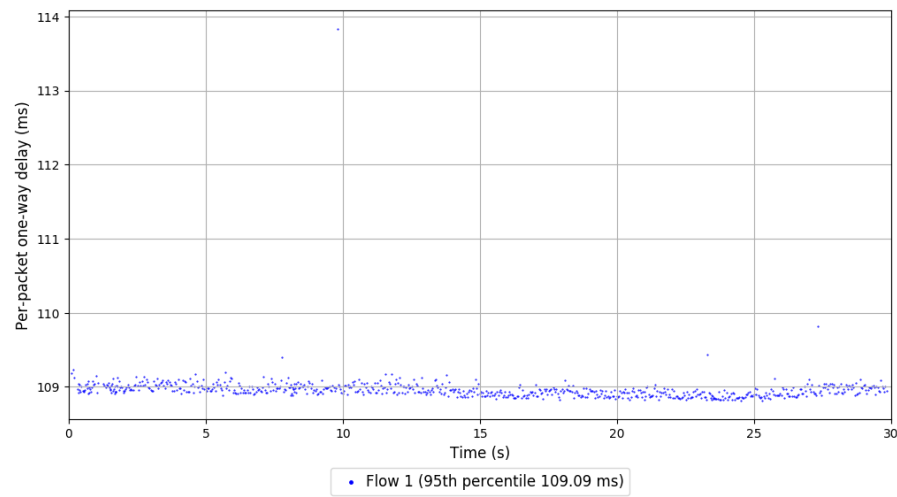
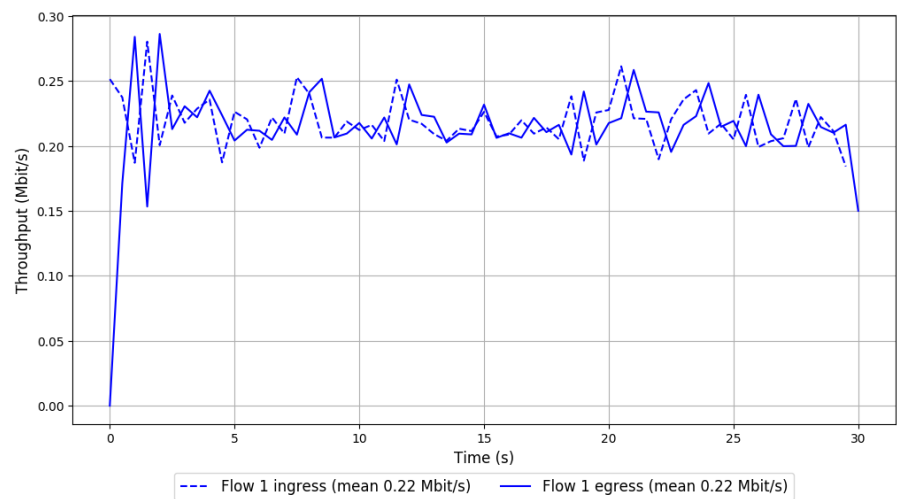


Run 2: Statistics of SCReAM

Start at: 2019-08-26 16:59:25
End at: 2019-08-26 16:59:55
Local clock offset: 38.252 ms
Remote clock offset: 31.163 ms

Below is generated by plot.py at 2019-08-26 20:47:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.093 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.093 ms
Loss rate: 0.64%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-08-26 17:35:51

End at: 2019-08-26 17:36:21

Local clock offset: 17.36 ms

Remote clock offset: 6.865 ms

Below is generated by plot.py at 2019-08-26 20:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.270 ms

Loss rate: 0.77%

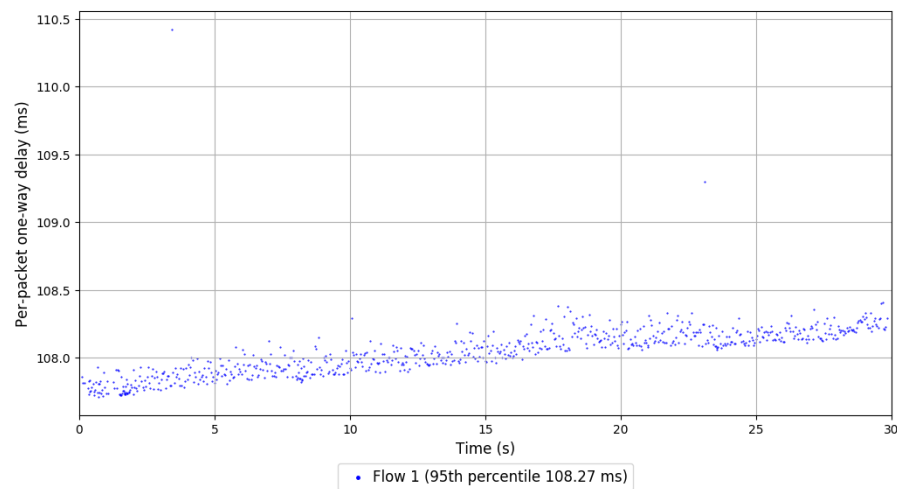
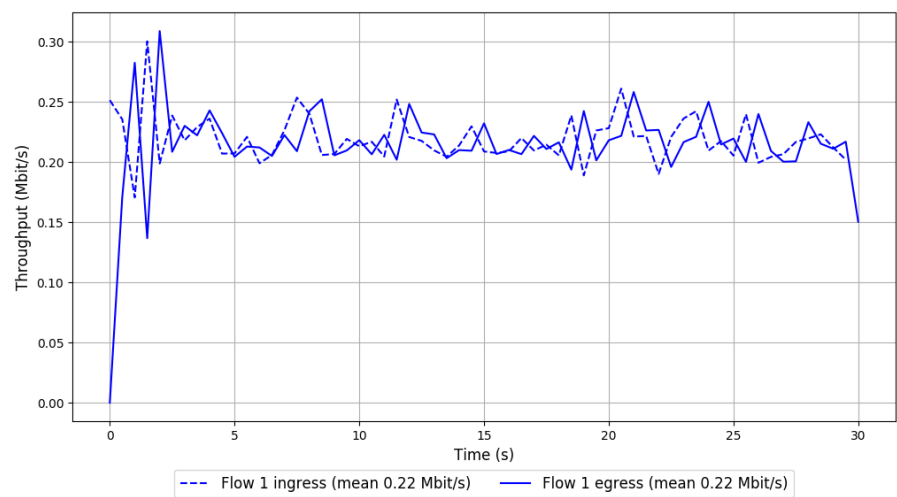
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.270 ms

Loss rate: 0.77%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-08-26 18:12:23

End at: 2019-08-26 18:12:53

Local clock offset: 6.164 ms

Remote clock offset: 2.353 ms

Below is generated by plot.py at 2019-08-26 20:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.243 ms

Loss rate: 0.64%

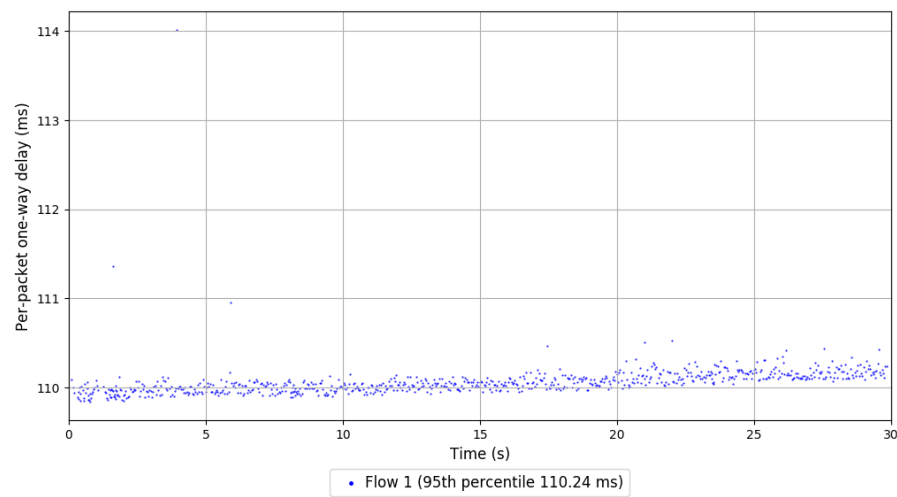
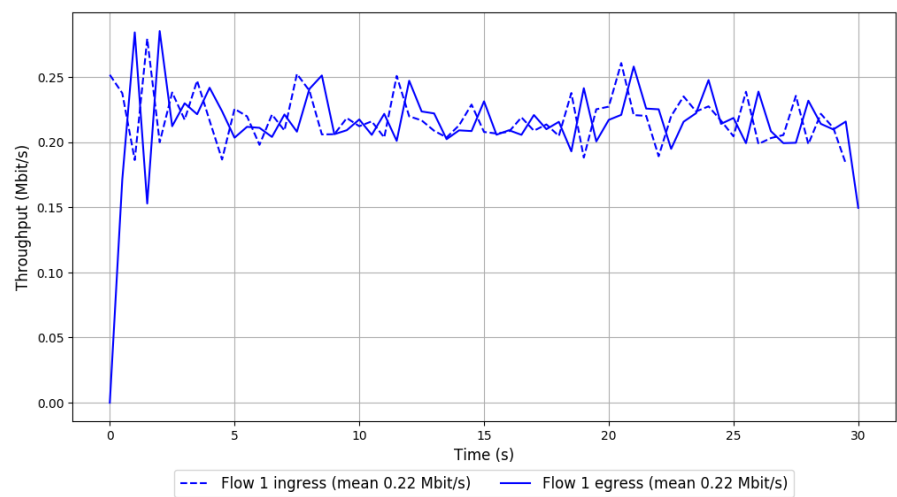
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.243 ms

Loss rate: 0.64%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-08-26 18:48:51

End at: 2019-08-26 18:49:21

Local clock offset: 1.17 ms

Remote clock offset: 0.86 ms

Below is generated by plot.py at 2019-08-26 20:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.061 ms

Loss rate: 0.77%

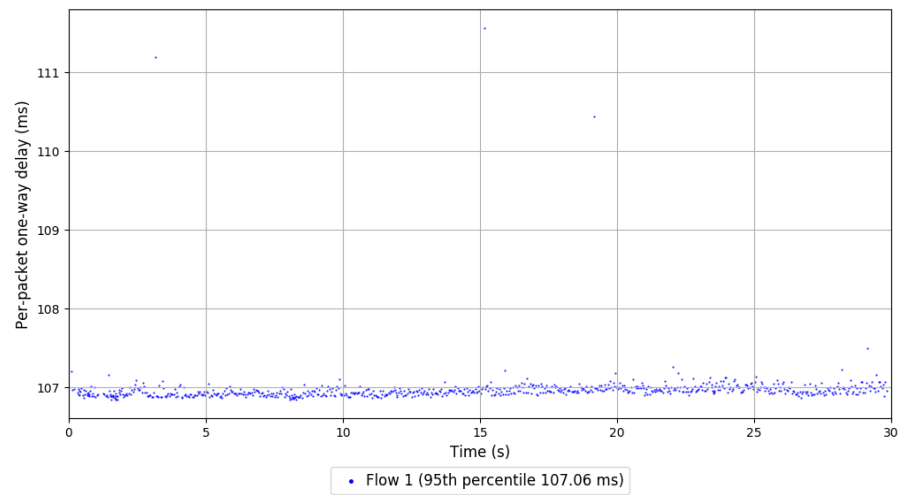
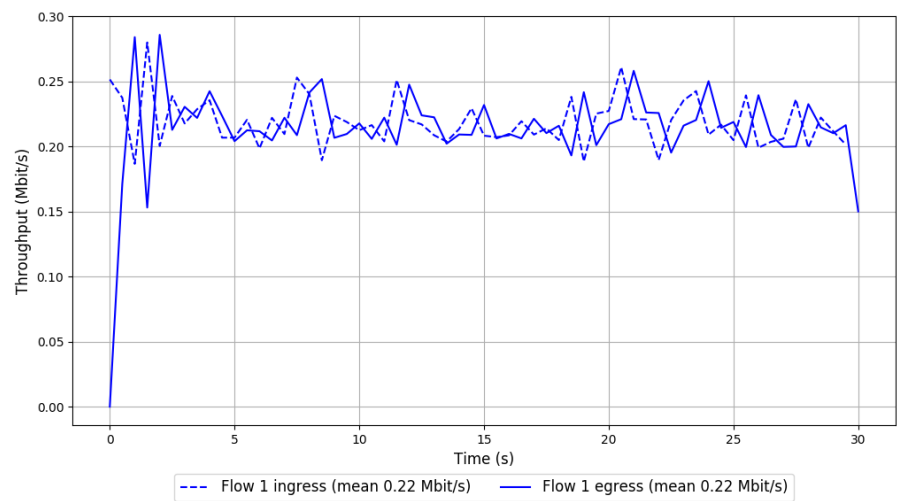
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.061 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-08-26 16:01:23

End at: 2019-08-26 16:01:53

Local clock offset: 9.595 ms

Remote clock offset: 7.662 ms

Below is generated by plot.py at 2019-08-26 20:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 107.404 ms

Loss rate: 0.09%

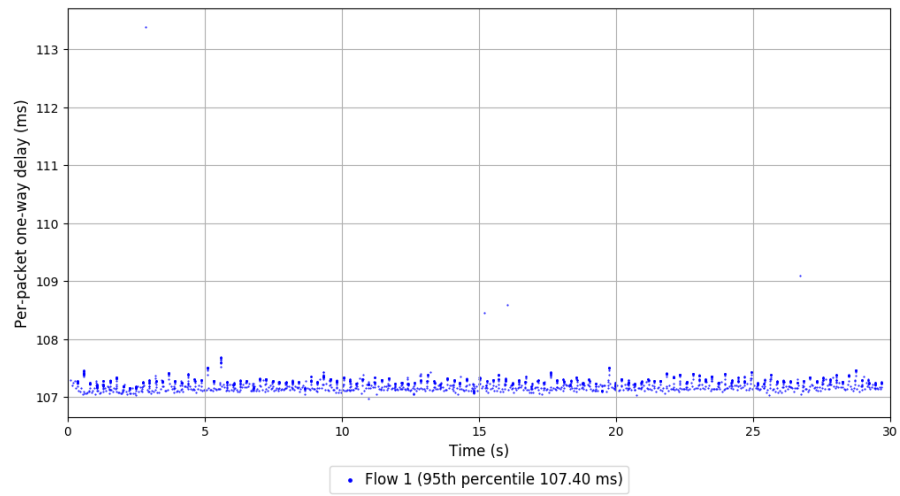
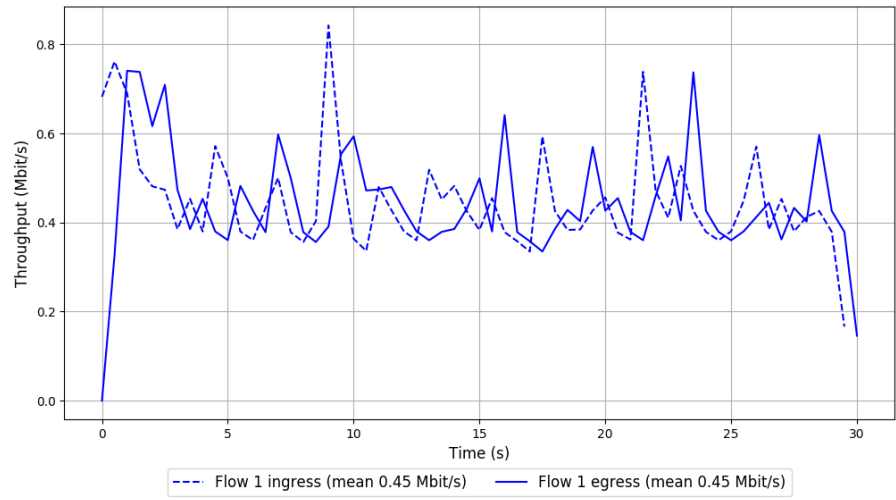
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 107.404 ms

Loss rate: 0.09%

Run 1: Report of Sprout — Data Link

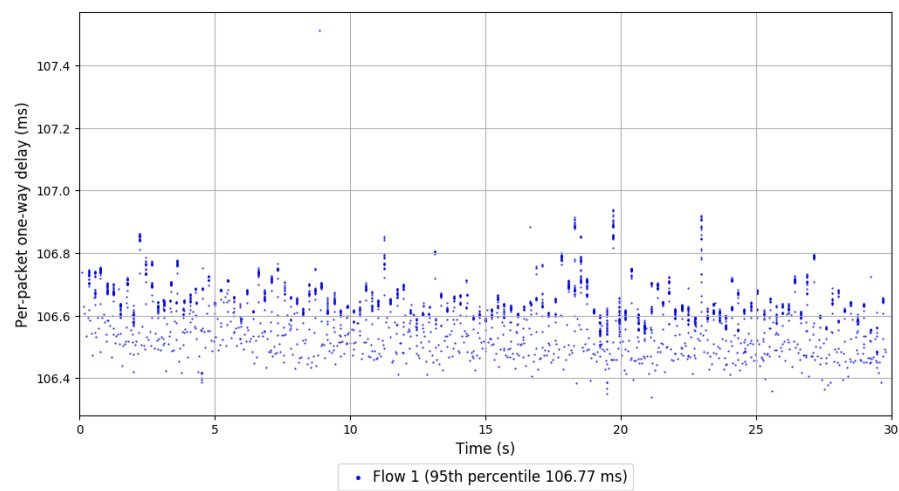
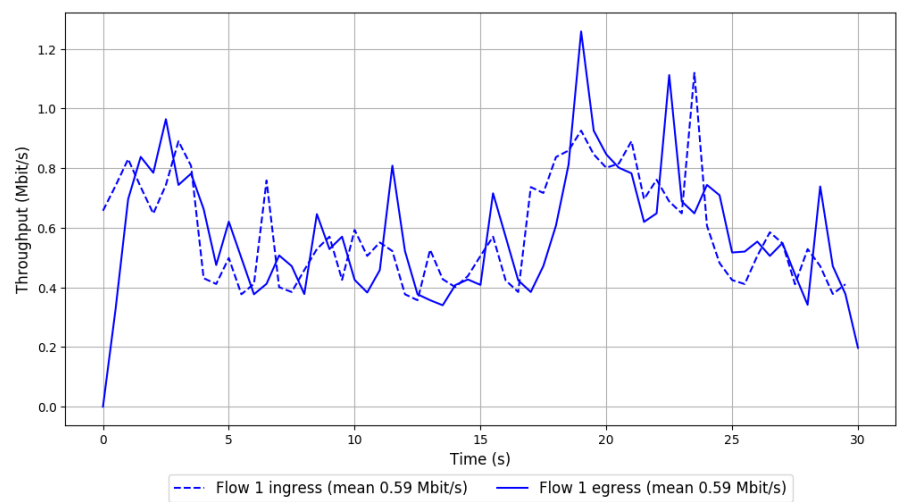


Run 2: Statistics of Sprout

Start at: 2019-08-26 16:37:34
End at: 2019-08-26 16:38:04
Local clock offset: 19.571 ms
Remote clock offset: 16.075 ms

Below is generated by plot.py at 2019-08-26 20:47:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 106.774 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 106.774 ms
Loss rate: 0.61%

Run 2: Report of Sprout — Data Link

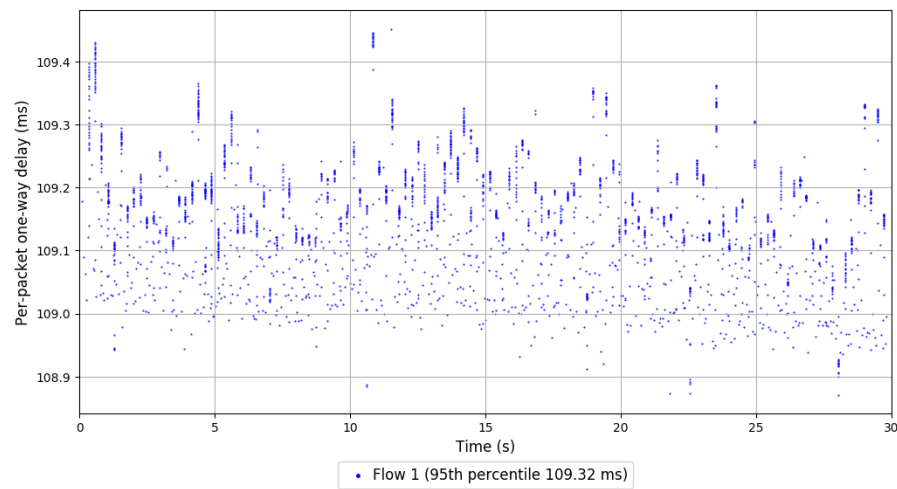
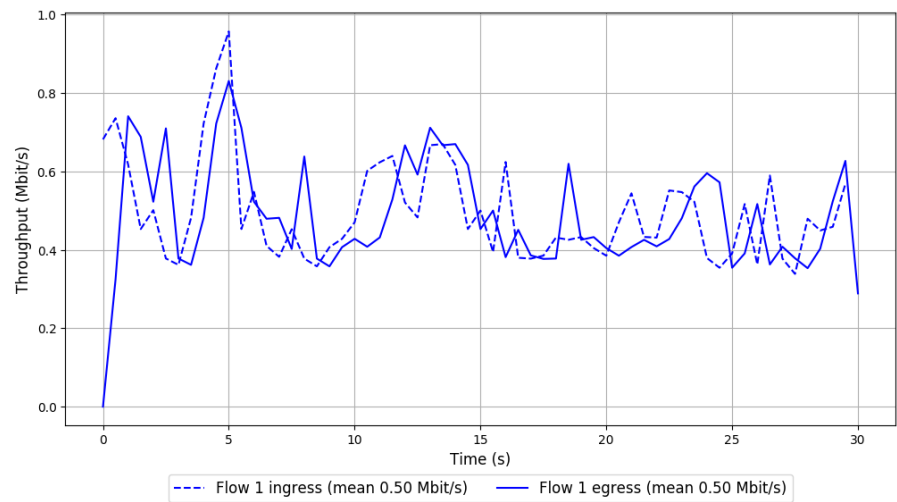


Run 3: Statistics of Sprout

Start at: 2019-08-26 17:13:41
End at: 2019-08-26 17:14:11
Local clock offset: 15.038 ms
Remote clock offset: 8.976 ms

Below is generated by plot.py at 2019-08-26 20:47:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 109.319 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 109.319 ms
Loss rate: 0.95%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-08-26 17:50:12

End at: 2019-08-26 17:50:42

Local clock offset: 7.064 ms

Remote clock offset: 2.729 ms

Below is generated by plot.py at 2019-08-26 20:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 106.239 ms

Loss rate: 0.92%

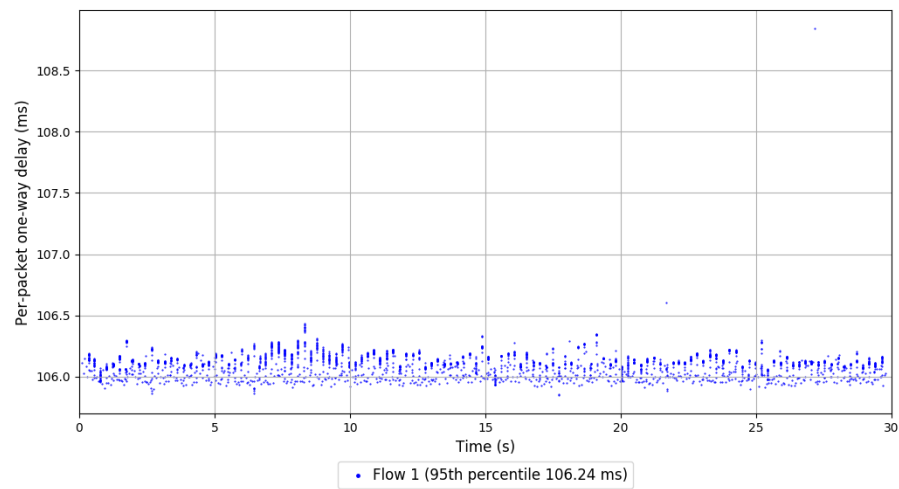
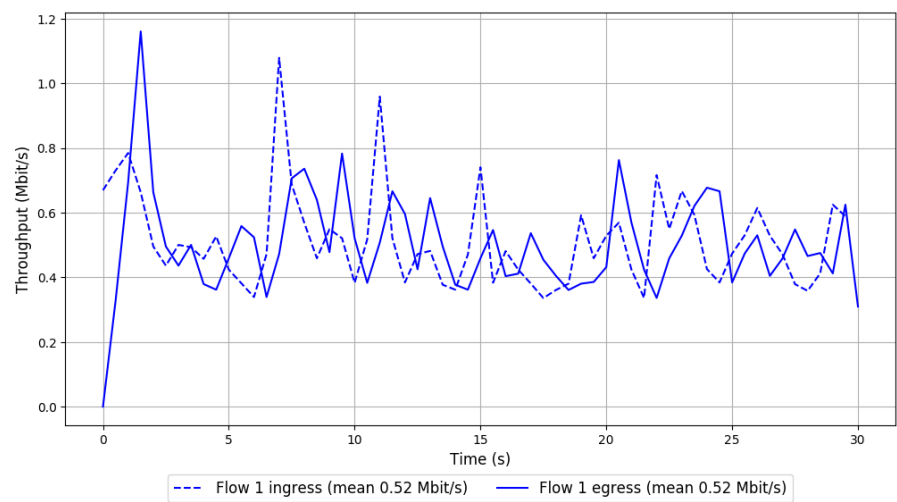
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 106.239 ms

Loss rate: 0.92%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-08-26 18:26:42

End at: 2019-08-26 18:27:12

Local clock offset: 2.221 ms

Remote clock offset: 1.149 ms

Below is generated by plot.py at 2019-08-26 20:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 110.295 ms

Loss rate: 0.50%

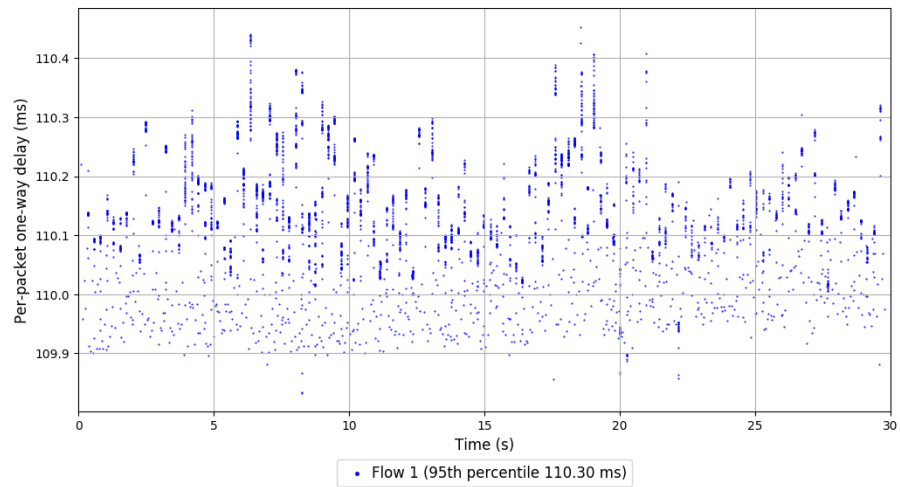
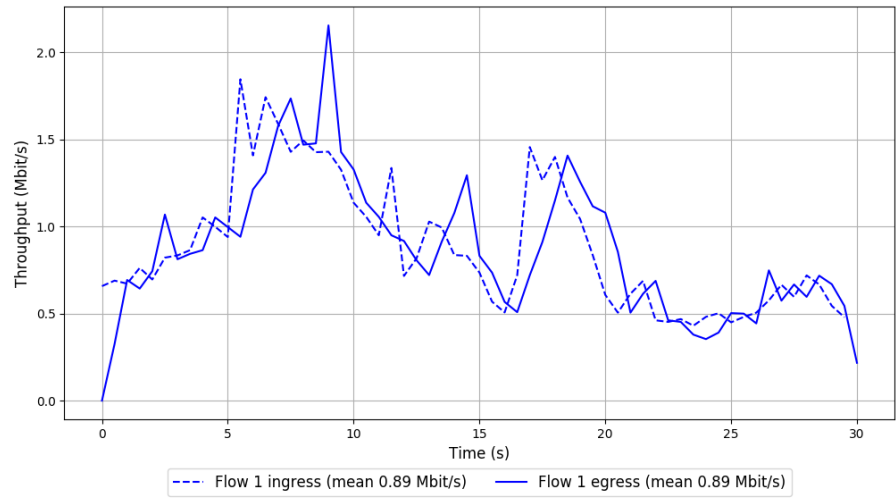
-- Flow 1:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 110.295 ms

Loss rate: 0.50%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-08-26 16:17:04

End at: 2019-08-26 16:17:34

Local clock offset: 14.593 ms

Remote clock offset: 12.121 ms

Below is generated by plot.py at 2019-08-26 20:51:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.00 Mbit/s

95th percentile per-packet one-way delay: 112.334 ms

Loss rate: 0.84%

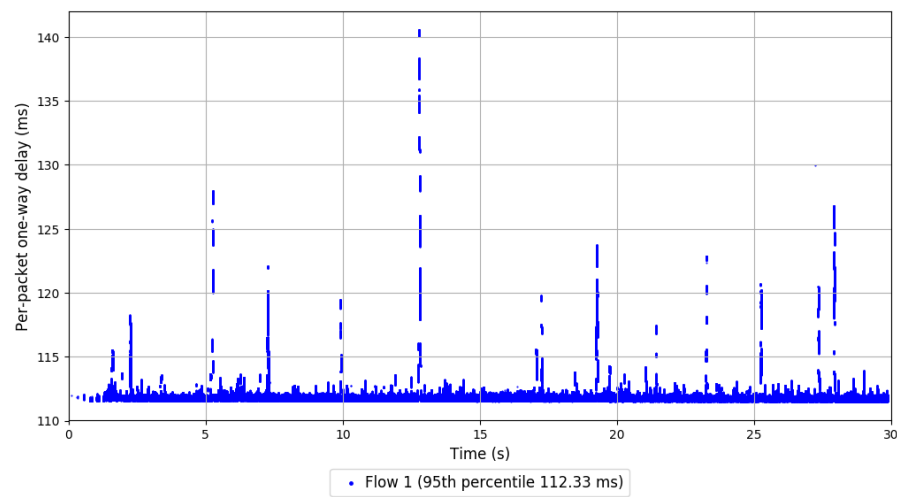
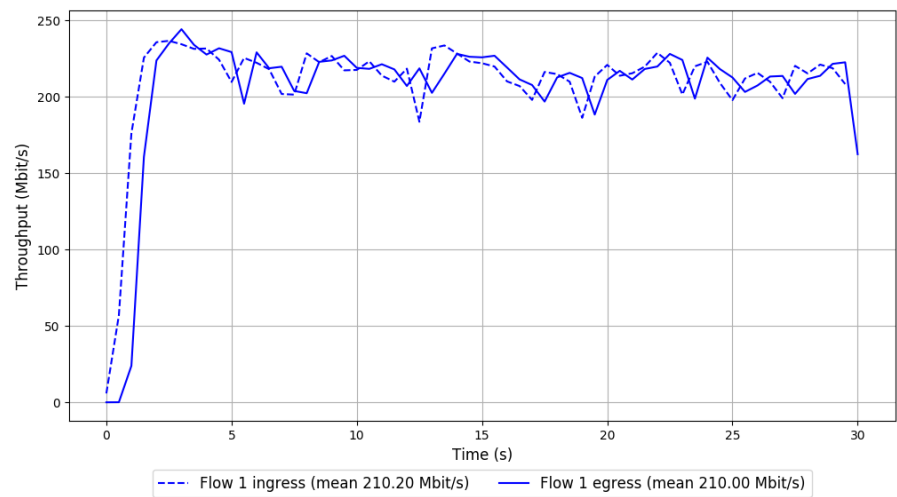
-- Flow 1:

Average throughput: 210.00 Mbit/s

95th percentile per-packet one-way delay: 112.334 ms

Loss rate: 0.84%

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

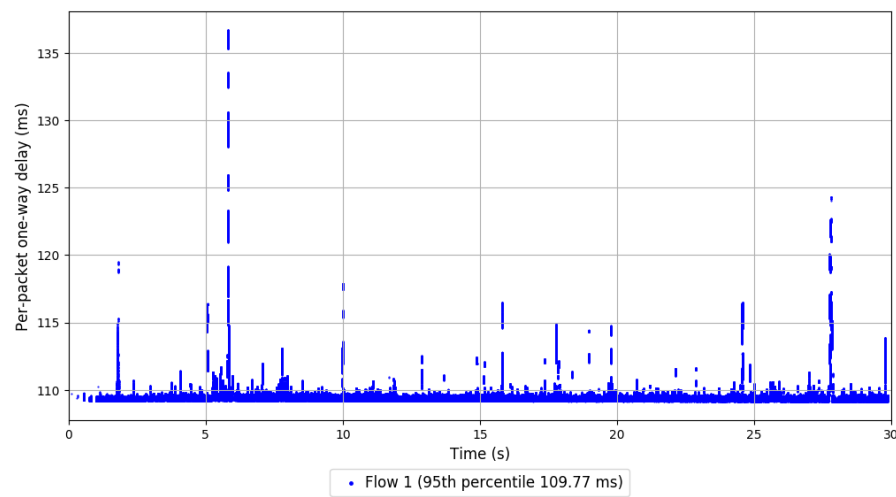
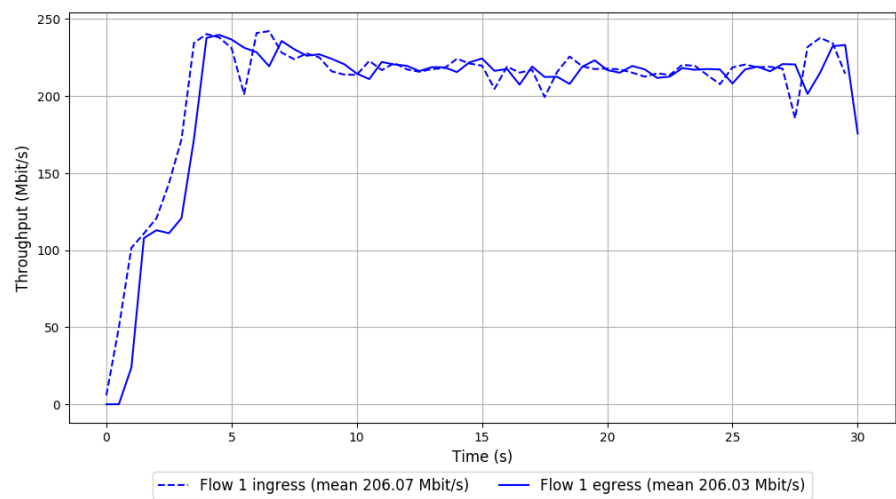


Run 2: Statistics of TaoVA-100x

Start at: 2019-08-26 16:53:12
End at: 2019-08-26 16:53:42
Local clock offset: 31.388 ms
Remote clock offset: 25.784 ms

Below is generated by plot.py at 2019-08-26 20:51:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 206.03 Mbit/s
95th percentile per-packet one-way delay: 109.772 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 206.03 Mbit/s
95th percentile per-packet one-way delay: 109.772 ms
Loss rate: 0.75%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-08-26 17:29:37

End at: 2019-08-26 17:30:07

Local clock offset: 17.642 ms

Remote clock offset: 7.437 ms

Below is generated by plot.py at 2019-08-26 20:51:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.94 Mbit/s

95th percentile per-packet one-way delay: 107.057 ms

Loss rate: 0.78%

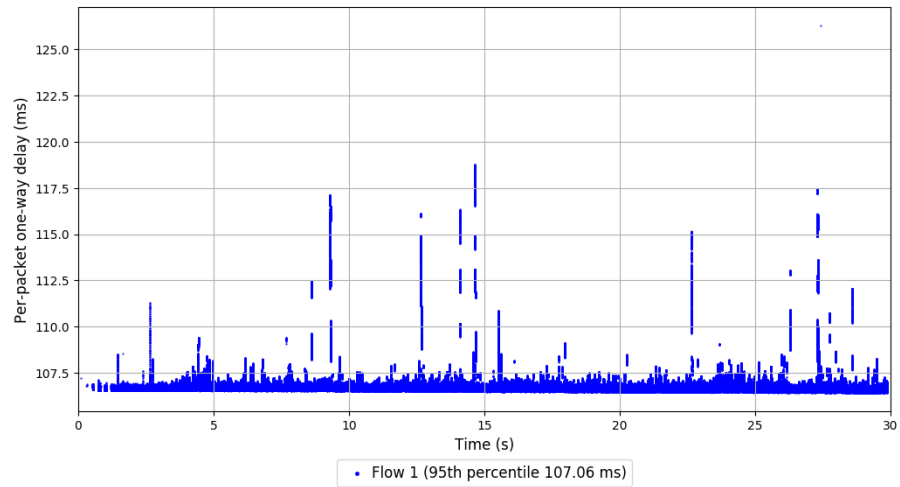
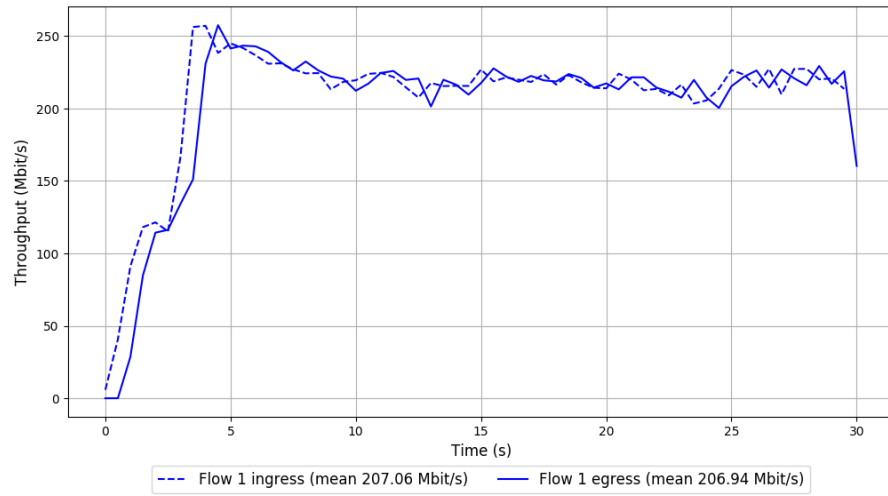
-- Flow 1:

Average throughput: 206.94 Mbit/s

95th percentile per-packet one-way delay: 107.057 ms

Loss rate: 0.78%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-08-26 18:06:07

End at: 2019-08-26 18:06:37

Local clock offset: 9.027 ms

Remote clock offset: 3.429 ms

Below is generated by plot.py at 2019-08-26 20:51:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.19 Mbit/s

95th percentile per-packet one-way delay: 107.184 ms

Loss rate: 0.82%

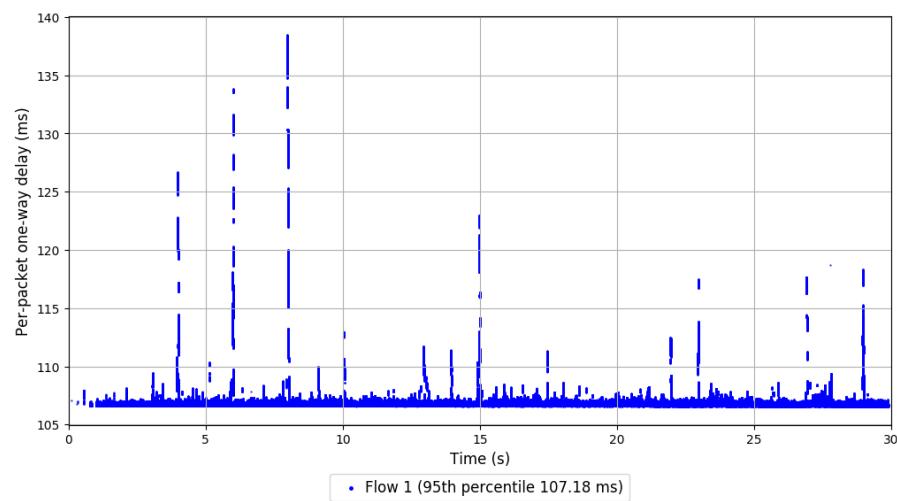
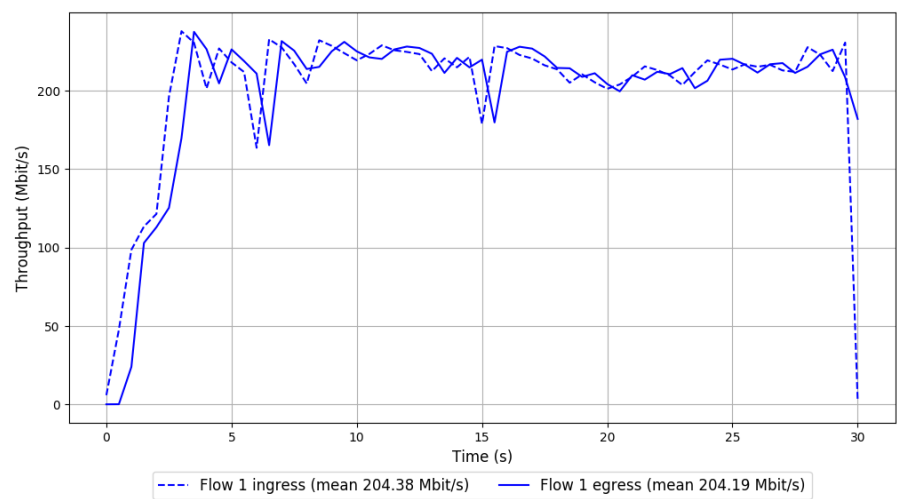
-- Flow 1:

Average throughput: 204.19 Mbit/s

95th percentile per-packet one-way delay: 107.184 ms

Loss rate: 0.82%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-08-26 18:42:35

End at: 2019-08-26 18:43:05

Local clock offset: 2.118 ms

Remote clock offset: 1.545 ms

Below is generated by plot.py at 2019-08-26 20:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.27 Mbit/s

95th percentile per-packet one-way delay: 106.745 ms

Loss rate: 0.81%

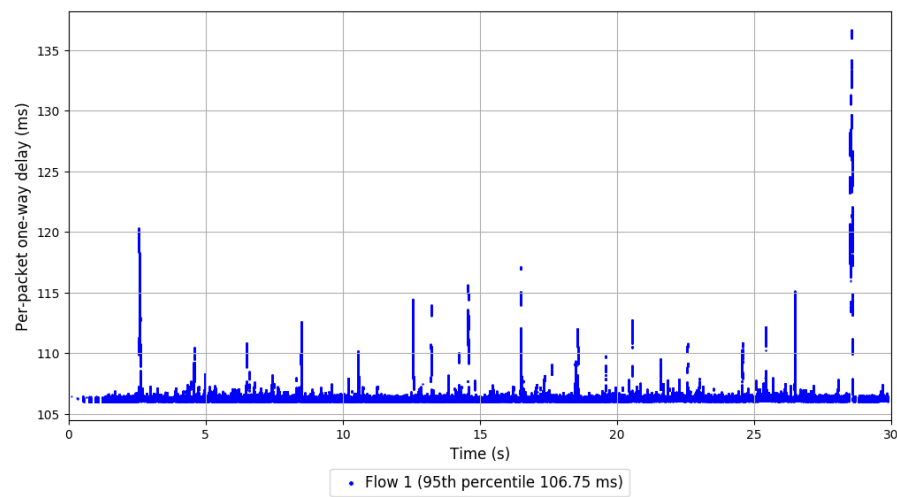
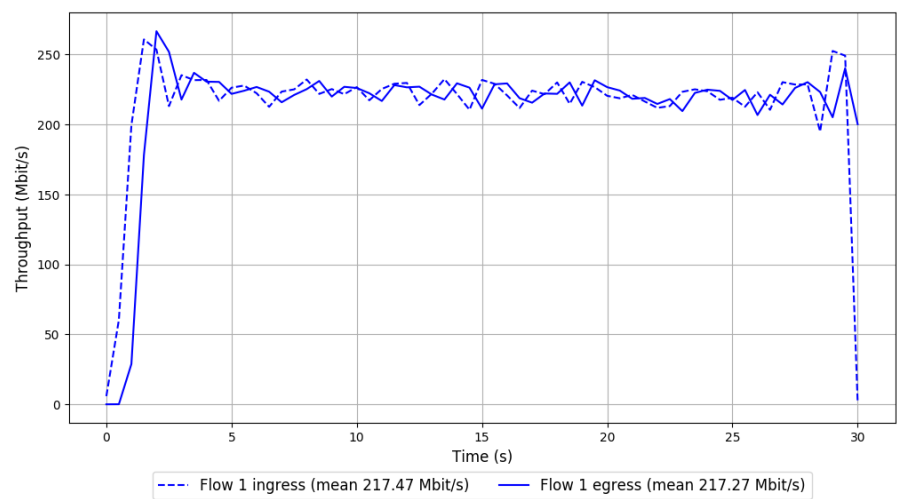
-- Flow 1:

Average throughput: 217.27 Mbit/s

95th percentile per-packet one-way delay: 106.745 ms

Loss rate: 0.81%

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

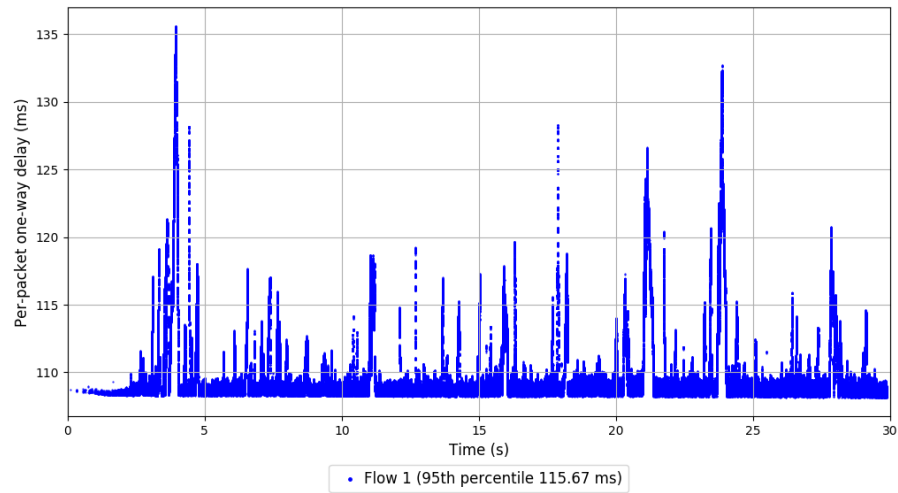
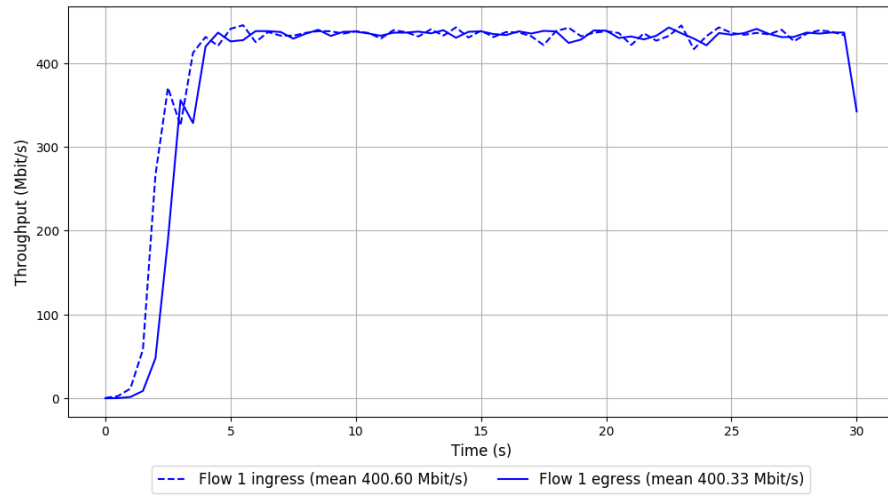


Run 1: Statistics of TCP Vegas

Start at: 2019-08-26 16:07:29
End at: 2019-08-26 16:07:59
Local clock offset: 14.123 ms
Remote clock offset: 11.803 ms

Below is generated by plot.py at 2019-08-26 20:52:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 400.33 Mbit/s
95th percentile per-packet one-way delay: 115.670 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 400.33 Mbit/s
95th percentile per-packet one-way delay: 115.670 ms
Loss rate: 0.78%

Run 1: Report of TCP Vegas — Data Link

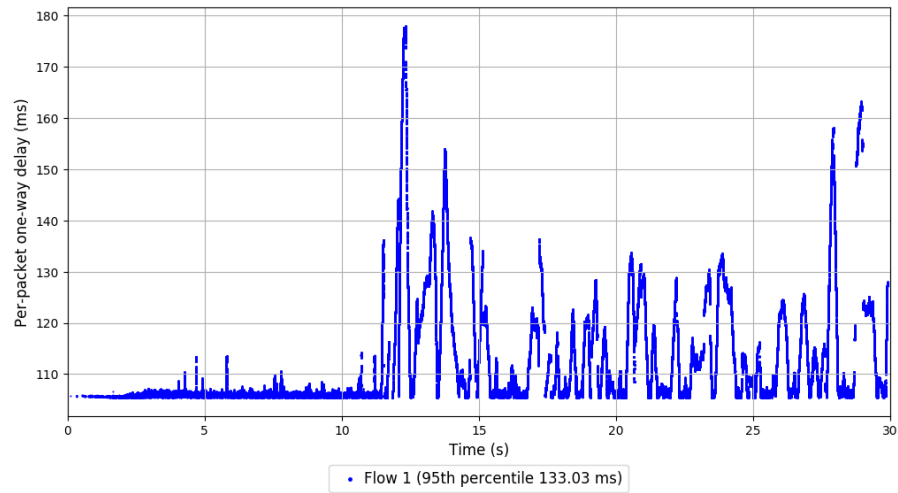
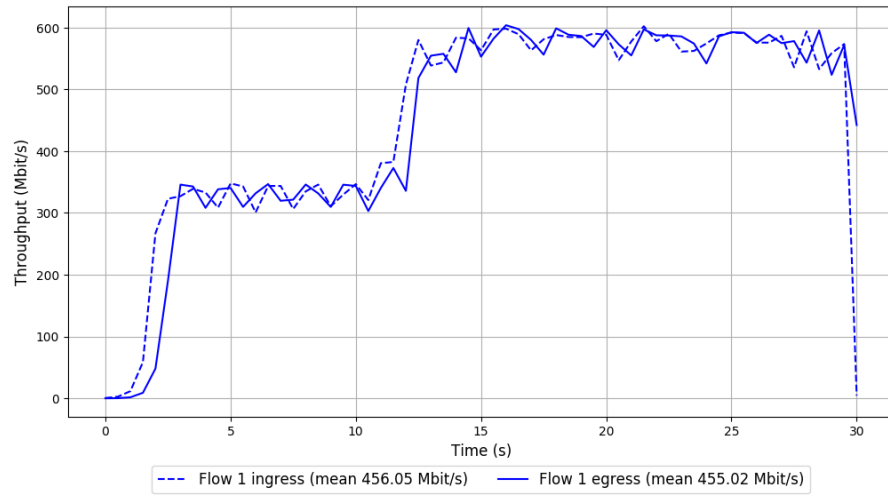


Run 2: Statistics of TCP Vegas

Start at: 2019-08-26 16:43:47
End at: 2019-08-26 16:44:18
Local clock offset: 23.005 ms
Remote clock offset: 18.947 ms

Below is generated by plot.py at 2019-08-26 20:55:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 455.02 Mbit/s
95th percentile per-packet one-way delay: 133.033 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 455.02 Mbit/s
95th percentile per-packet one-way delay: 133.033 ms
Loss rate: 0.94%

Run 2: Report of TCP Vegas — Data Link

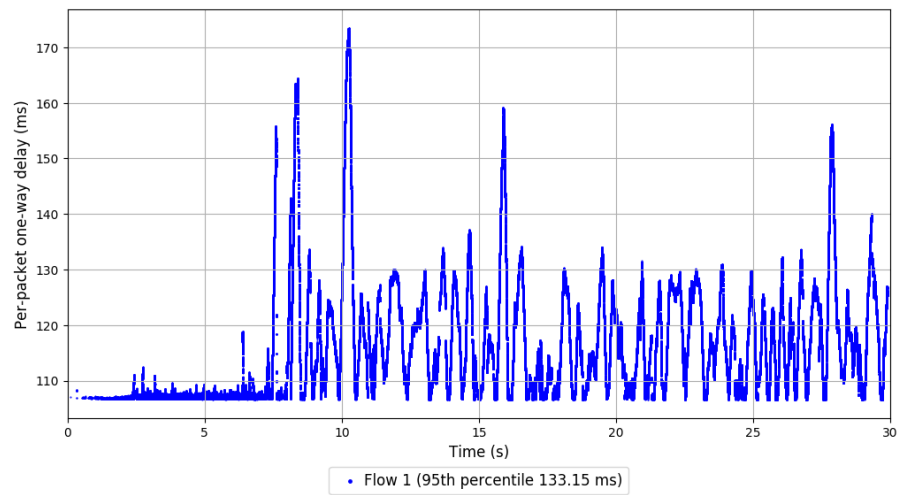
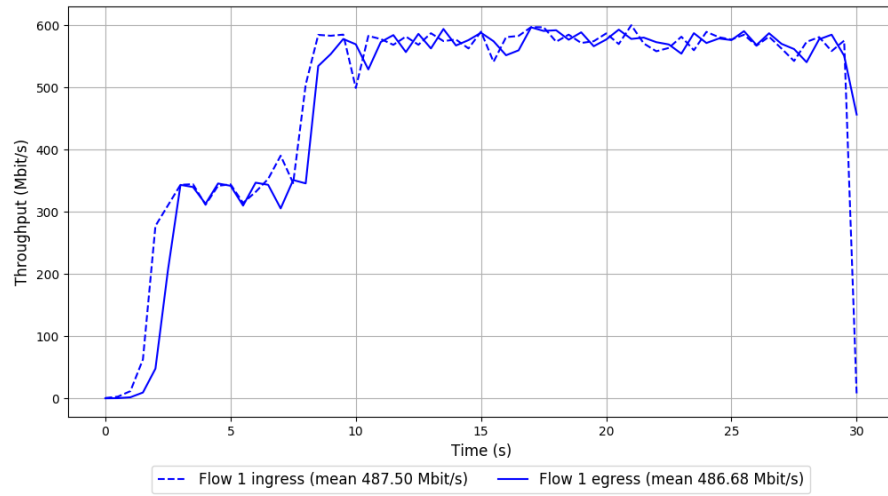


Run 3: Statistics of TCP Vegas

Start at: 2019-08-26 17:19:53
End at: 2019-08-26 17:20:23
Local clock offset: 14.822 ms
Remote clock offset: 7.306 ms

Below is generated by plot.py at 2019-08-26 20:57:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 486.68 Mbit/s
95th percentile per-packet one-way delay: 133.150 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 486.68 Mbit/s
95th percentile per-packet one-way delay: 133.150 ms
Loss rate: 0.88%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-08-26 17:56:26

End at: 2019-08-26 17:56:56

Local clock offset: 7.221 ms

Remote clock offset: 2.77 ms

Below is generated by plot.py at 2019-08-26 20:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.80 Mbit/s

95th percentile per-packet one-way delay: 124.964 ms

Loss rate: 0.80%

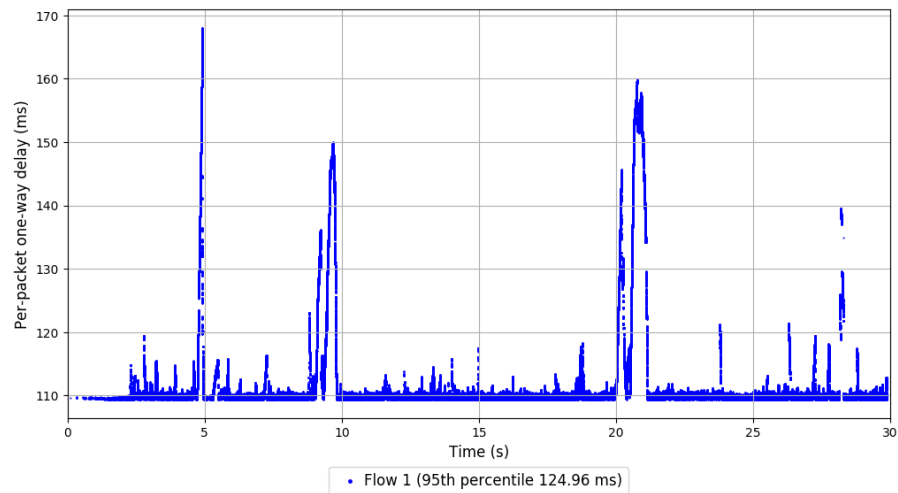
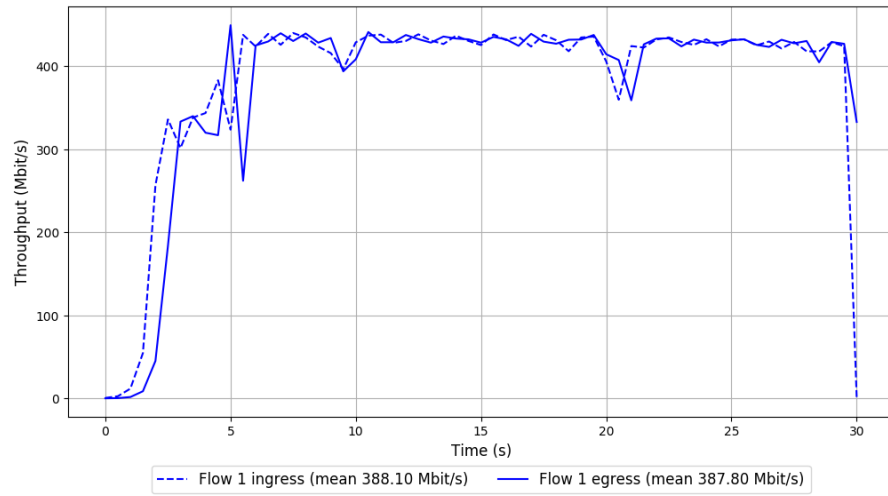
-- Flow 1:

Average throughput: 387.80 Mbit/s

95th percentile per-packet one-way delay: 124.964 ms

Loss rate: 0.80%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-08-26 18:32:58

End at: 2019-08-26 18:33:28

Local clock offset: 1.92 ms

Remote clock offset: 1.176 ms

Below is generated by plot.py at 2019-08-26 20:58:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.12 Mbit/s

95th percentile per-packet one-way delay: 111.150 ms

Loss rate: 0.79%

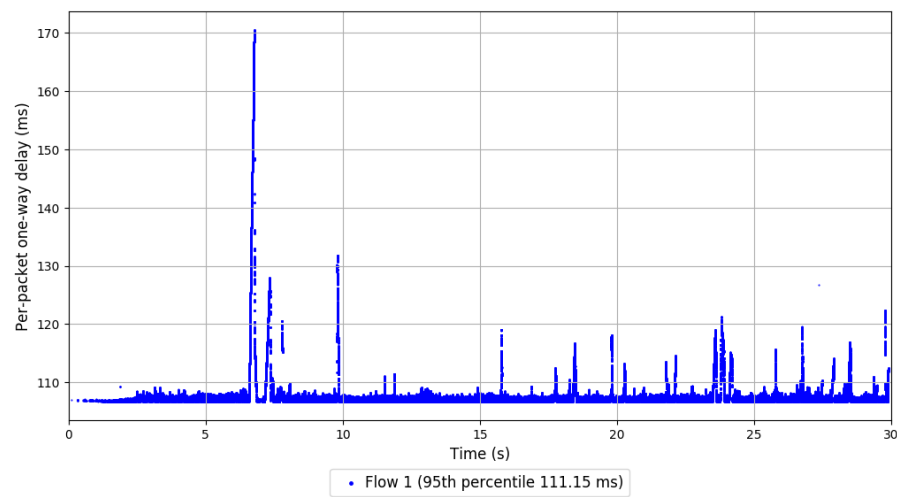
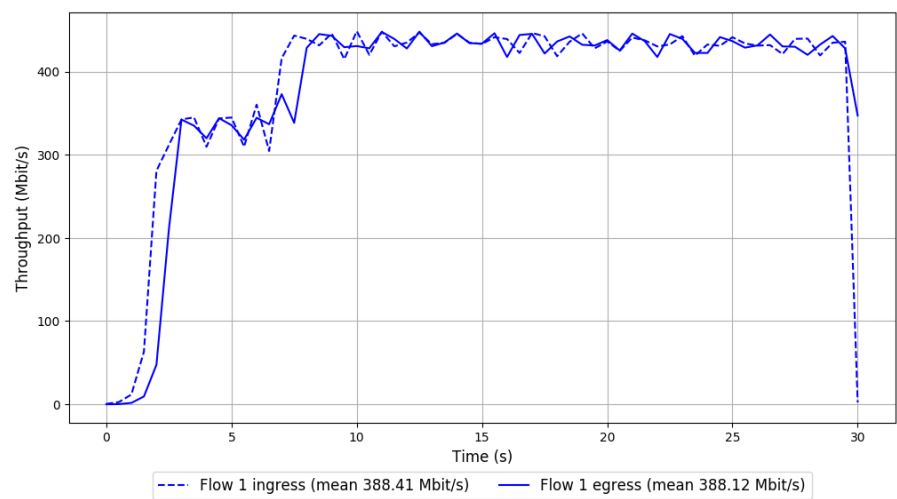
-- Flow 1:

Average throughput: 388.12 Mbit/s

95th percentile per-packet one-way delay: 111.150 ms

Loss rate: 0.79%

Run 5: Report of TCP Vegas — Data Link

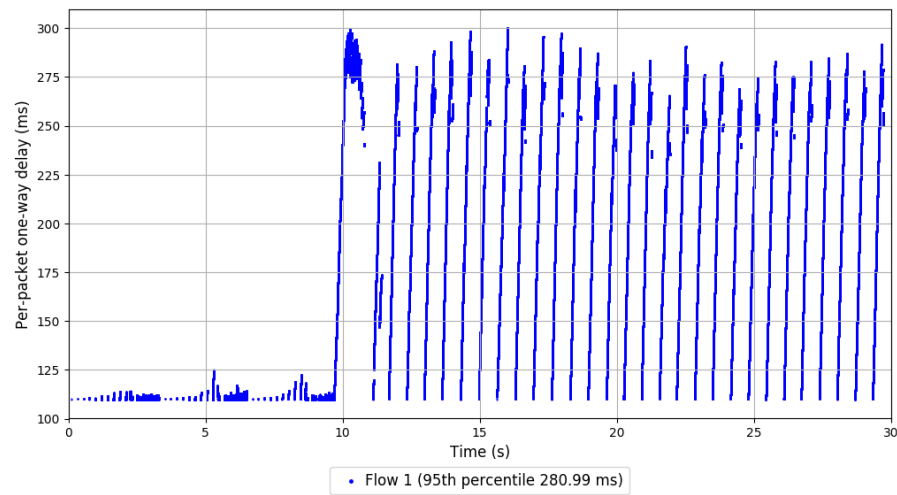
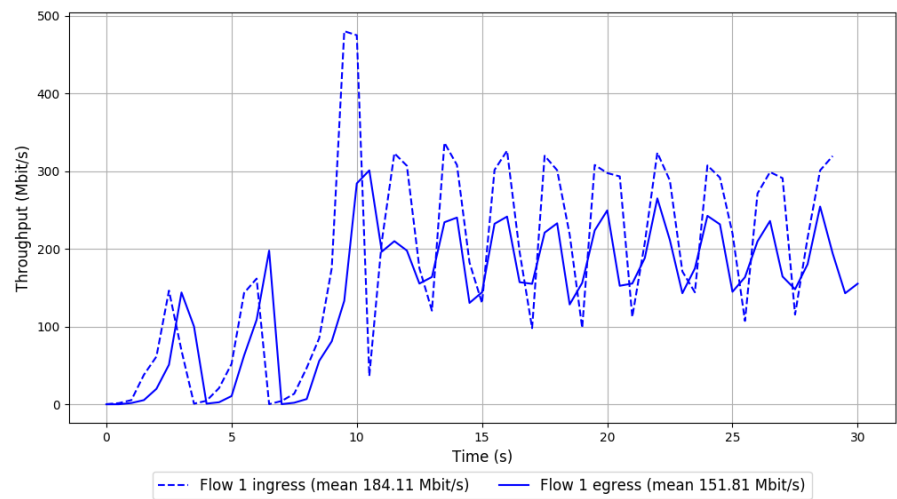


Run 1: Statistics of Verus

Start at: 2019-08-26 16:14:00
End at: 2019-08-26 16:14:30
Local clock offset: 12.708 ms
Remote clock offset: 10.524 ms

Below is generated by plot.py at 2019-08-26 20:58:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 151.81 Mbit/s
95th percentile per-packet one-way delay: 280.992 ms
Loss rate: 17.13%
-- Flow 1:
Average throughput: 151.81 Mbit/s
95th percentile per-packet one-way delay: 280.992 ms
Loss rate: 17.13%

Run 1: Report of Verus — Data Link

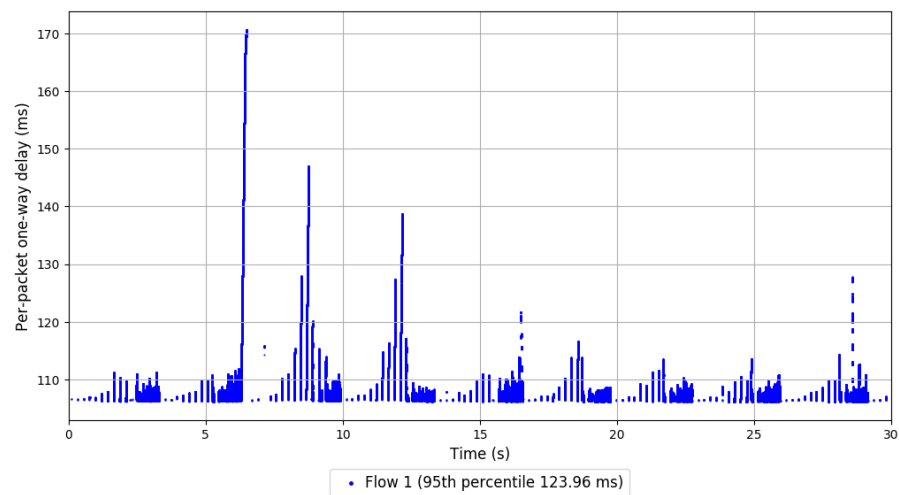
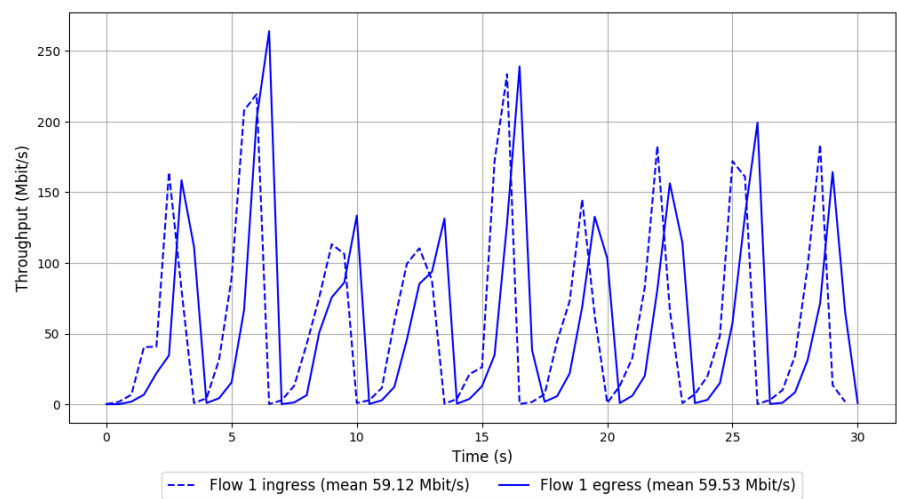


Run 2: Statistics of Verus

Start at: 2019-08-26 16:50:21
End at: 2019-08-26 16:50:51
Local clock offset: 28.671 ms
Remote clock offset: 23.482 ms

Below is generated by plot.py at 2019-08-26 20:58:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.53 Mbit/s
95th percentile per-packet one-way delay: 123.961 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 59.53 Mbit/s
95th percentile per-packet one-way delay: 123.961 ms
Loss rate: 0.03%

Run 2: Report of Verus — Data Link

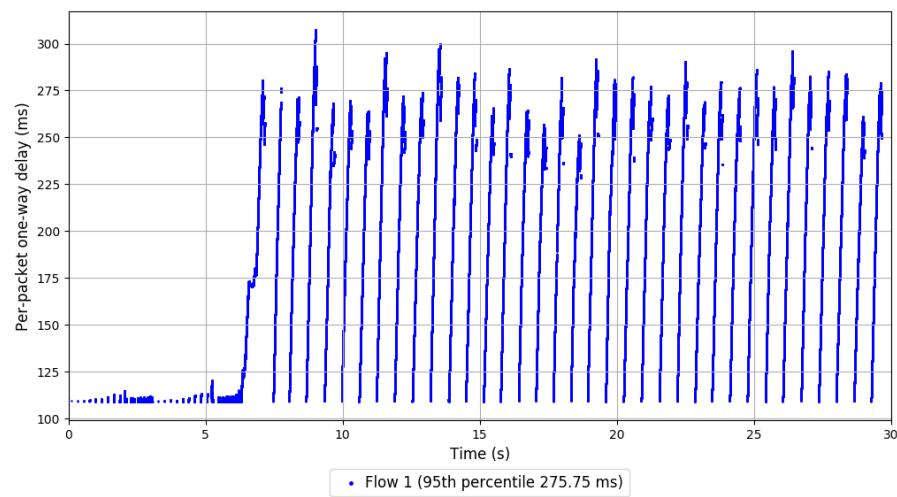
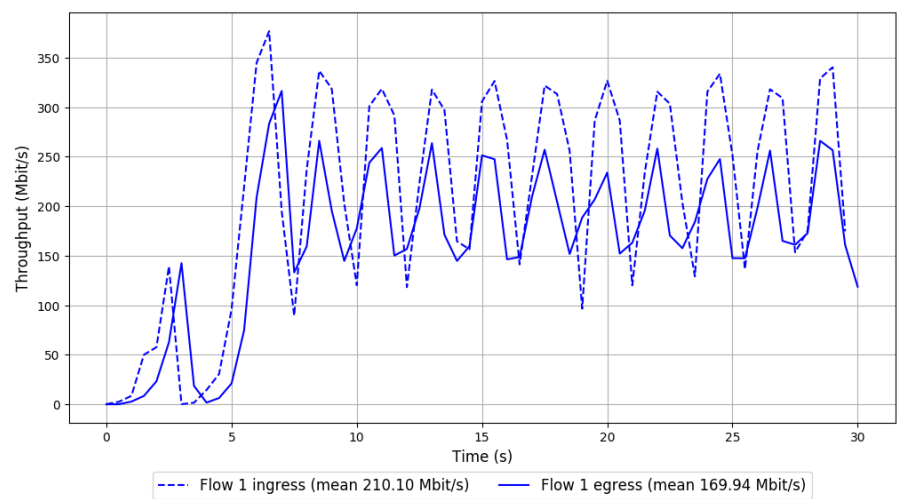


Run 3: Statistics of Verus

Start at: 2019-08-26 17:26:33
End at: 2019-08-26 17:27:03
Local clock offset: 16.217 ms
Remote clock offset: 7.075 ms

Below is generated by plot.py at 2019-08-26 20:58:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 169.94 Mbit/s
95th percentile per-packet one-way delay: 275.754 ms
Loss rate: 20.18%
-- Flow 1:
Average throughput: 169.94 Mbit/s
95th percentile per-packet one-way delay: 275.754 ms
Loss rate: 20.18%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-08-26 18:03:00

End at: 2019-08-26 18:03:30

Local clock offset: 8.327 ms

Remote clock offset: 3.064 ms

Below is generated by plot.py at 2019-08-26 20:58:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.75 Mbit/s

95th percentile per-packet one-way delay: 280.748 ms

Loss rate: 18.54%

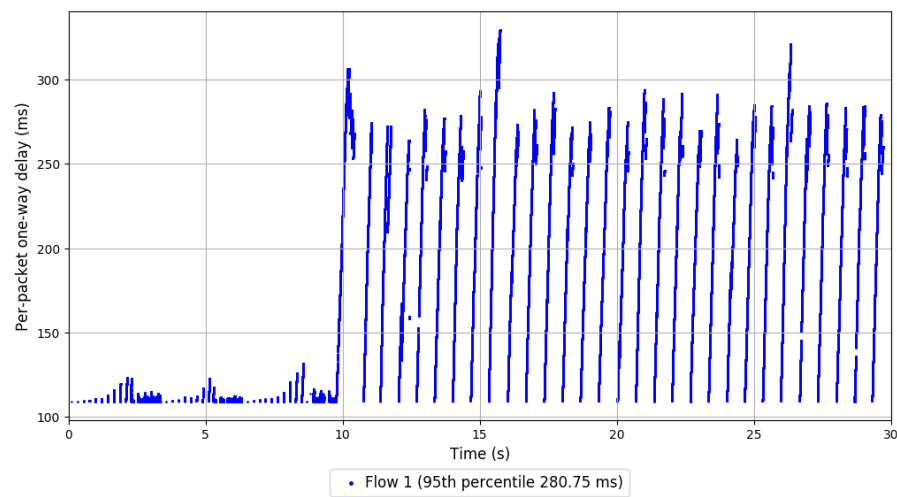
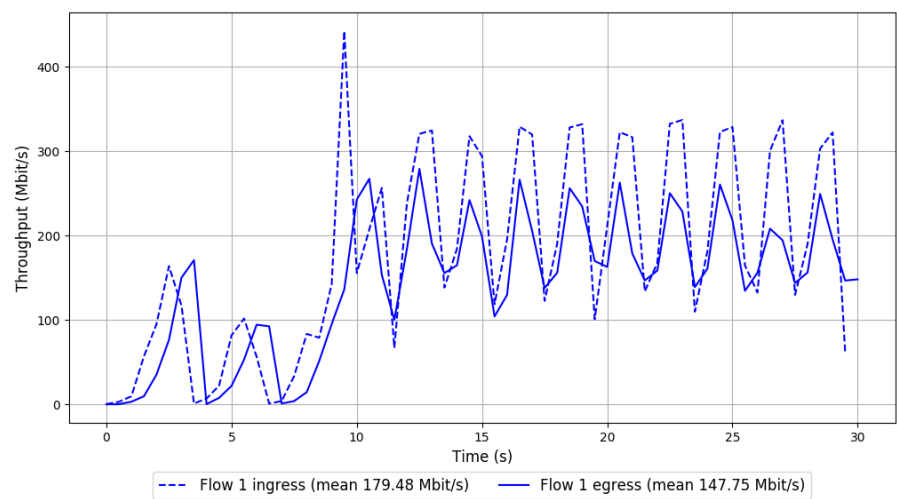
-- Flow 1:

Average throughput: 147.75 Mbit/s

95th percentile per-packet one-way delay: 280.748 ms

Loss rate: 18.54%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-08-26 18:39:32

End at: 2019-08-26 18:40:02

Local clock offset: 2.05 ms

Remote clock offset: 1.398 ms

Below is generated by plot.py at 2019-08-26 20:58:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.04 Mbit/s

95th percentile per-packet one-way delay: 273.205 ms

Loss rate: 16.27%

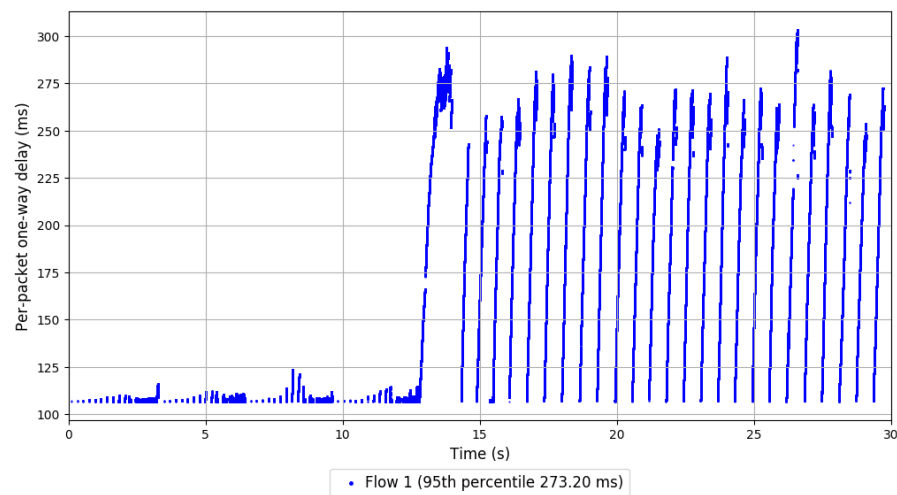
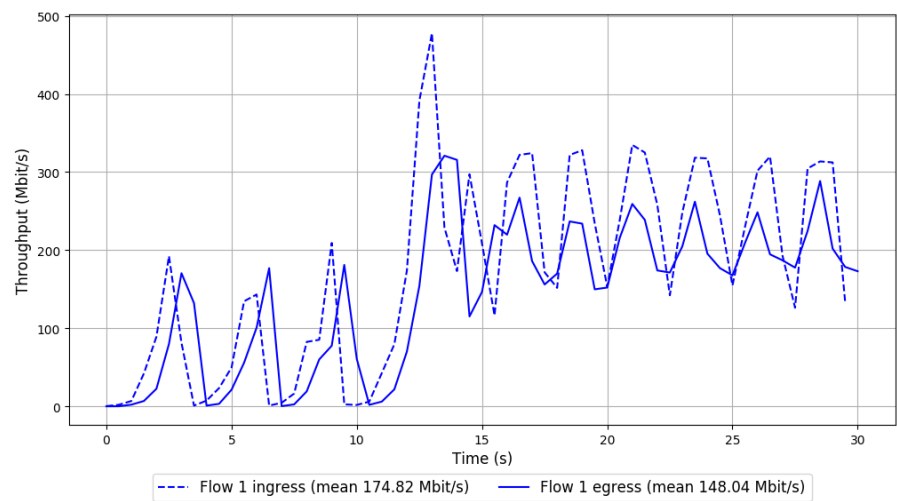
-- Flow 1:

Average throughput: 148.04 Mbit/s

95th percentile per-packet one-way delay: 273.205 ms

Loss rate: 16.27%

Run 5: Report of Verus — Data Link

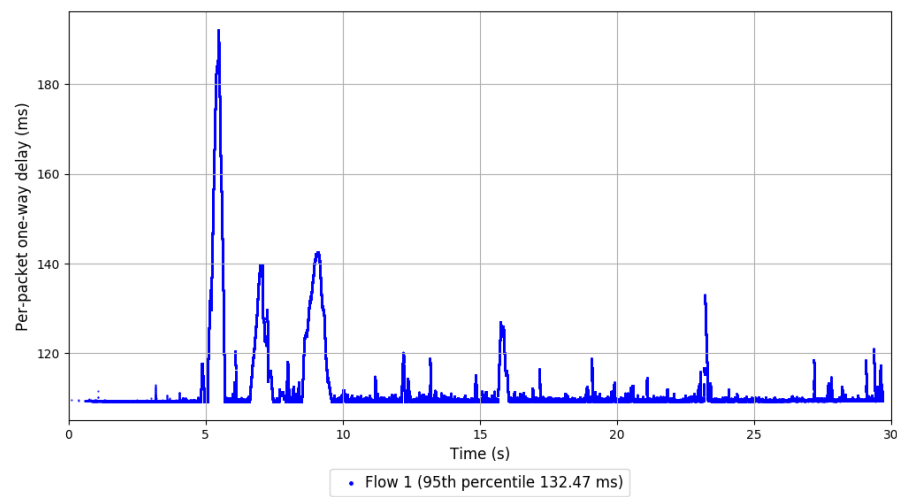
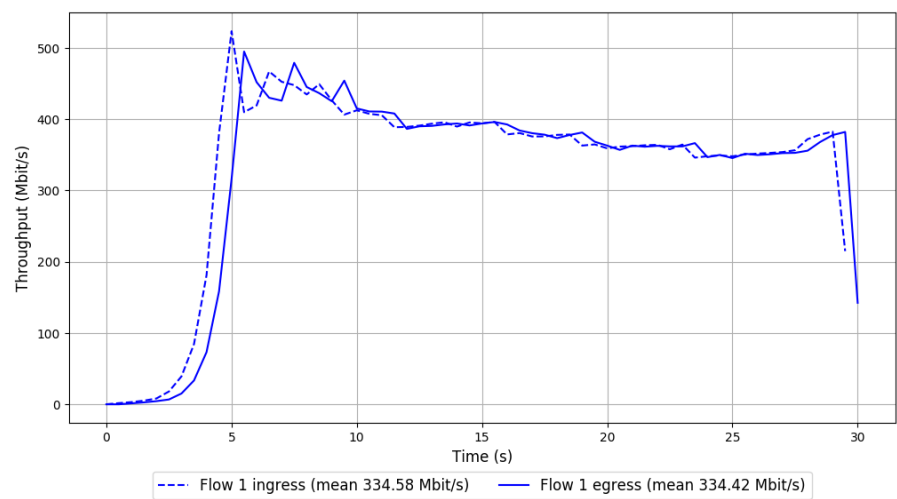


Run 1: Statistics of PCC-Vivace

Start at: 2019-08-26 16:27:05
End at: 2019-08-26 16:27:35
Local clock offset: 24.392 ms
Remote clock offset: 19.645 ms

Below is generated by plot.py at 2019-08-26 21:00:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 334.42 Mbit/s
95th percentile per-packet one-way delay: 132.465 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 334.42 Mbit/s
95th percentile per-packet one-way delay: 132.465 ms
Loss rate: 0.78%

Run 1: Report of PCC-Vivace — Data Link

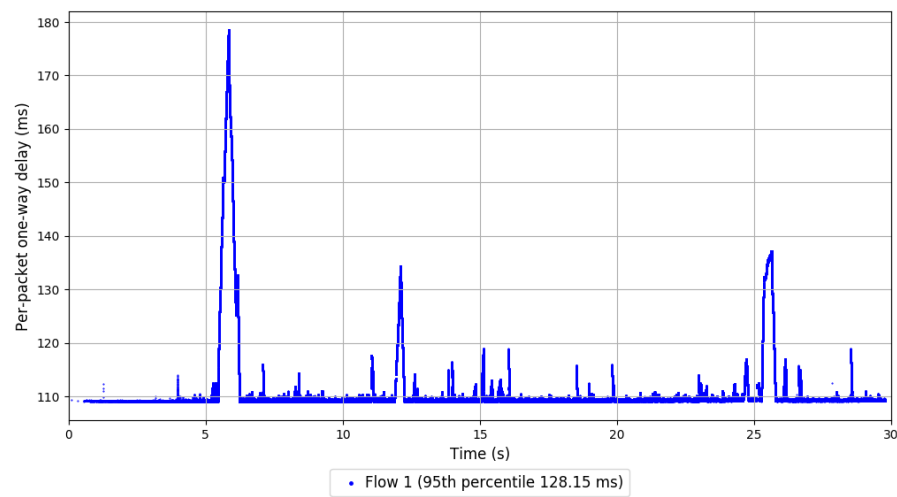
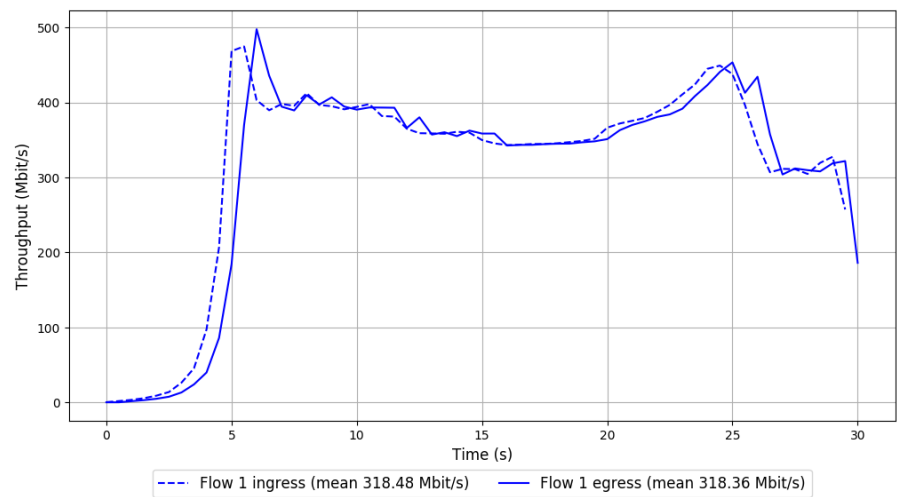


Run 2: Statistics of PCC-Vivace

Start at: 2019-08-26 17:03:11
End at: 2019-08-26 17:03:41
Local clock offset: 29.943 ms
Remote clock offset: 23.175 ms

Below is generated by plot.py at 2019-08-26 21:00:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 318.36 Mbit/s
95th percentile per-packet one-way delay: 128.145 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 318.36 Mbit/s
95th percentile per-packet one-way delay: 128.145 ms
Loss rate: 0.76%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-08-26 17:39:37

End at: 2019-08-26 17:40:07

Local clock offset: 12.247 ms

Remote clock offset: 4.87 ms

Below is generated by plot.py at 2019-08-26 21:01:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.88 Mbit/s

95th percentile per-packet one-way delay: 119.938 ms

Loss rate: 0.96%

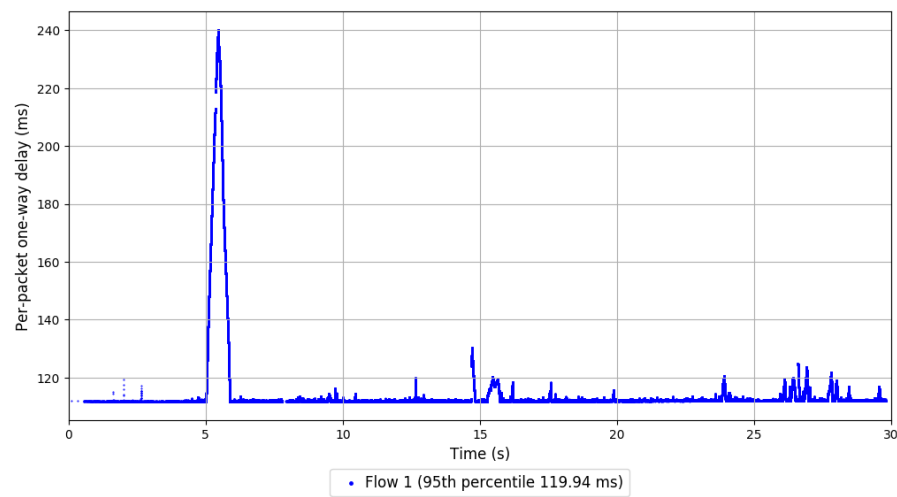
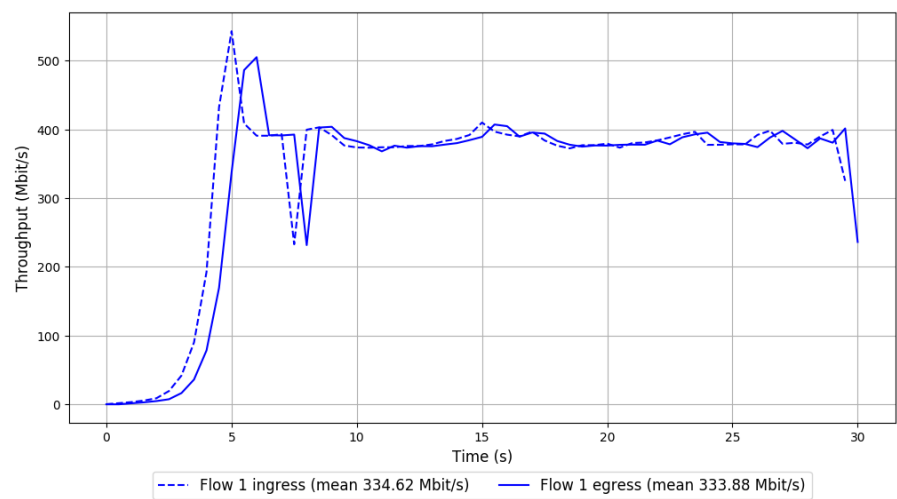
-- Flow 1:

Average throughput: 333.88 Mbit/s

95th percentile per-packet one-way delay: 119.938 ms

Loss rate: 0.96%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-08-26 18:16:10

End at: 2019-08-26 18:16:40

Local clock offset: 4.344 ms

Remote clock offset: 1.698 ms

Below is generated by plot.py at 2019-08-26 21:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.24 Mbit/s

95th percentile per-packet one-way delay: 142.715 ms

Loss rate: 0.75%

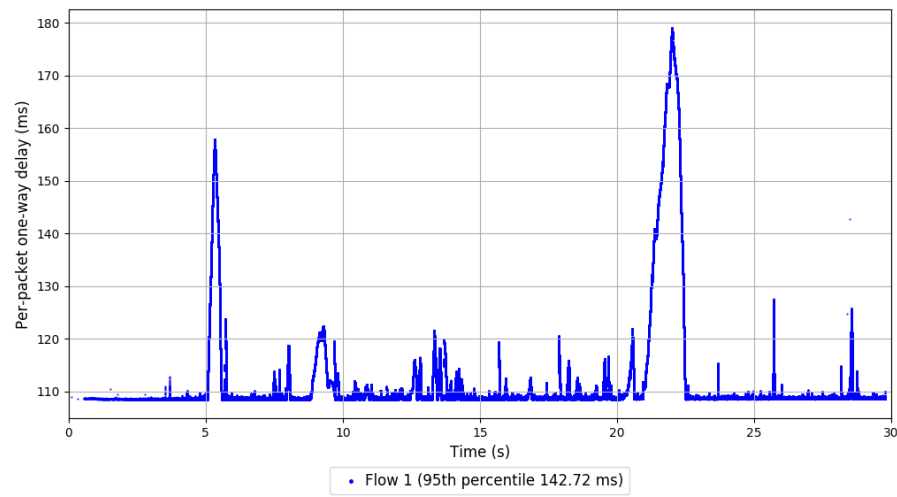
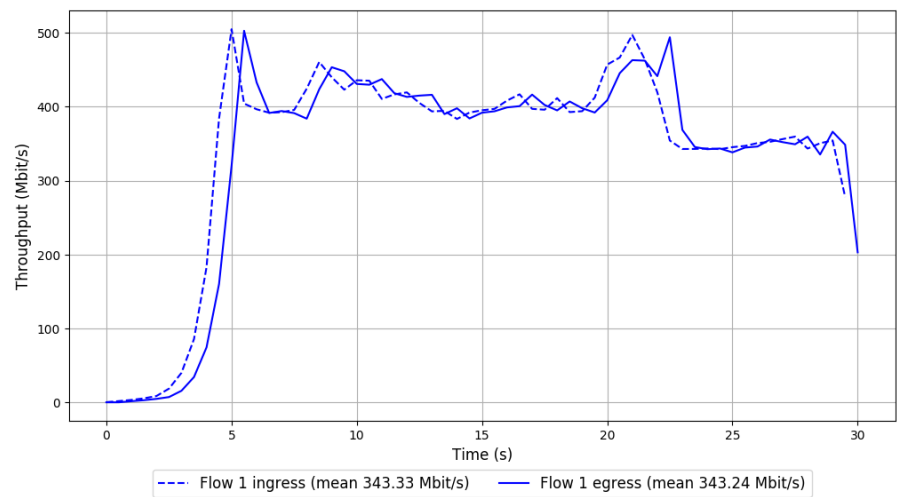
-- Flow 1:

Average throughput: 343.24 Mbit/s

95th percentile per-packet one-way delay: 142.715 ms

Loss rate: 0.75%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-08-26 18:52:36

End at: 2019-08-26 18:53:06

Local clock offset: 0.781 ms

Remote clock offset: 0.662 ms

Below is generated by plot.py at 2019-08-26 21:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.84 Mbit/s

95th percentile per-packet one-way delay: 140.783 ms

Loss rate: 1.35%

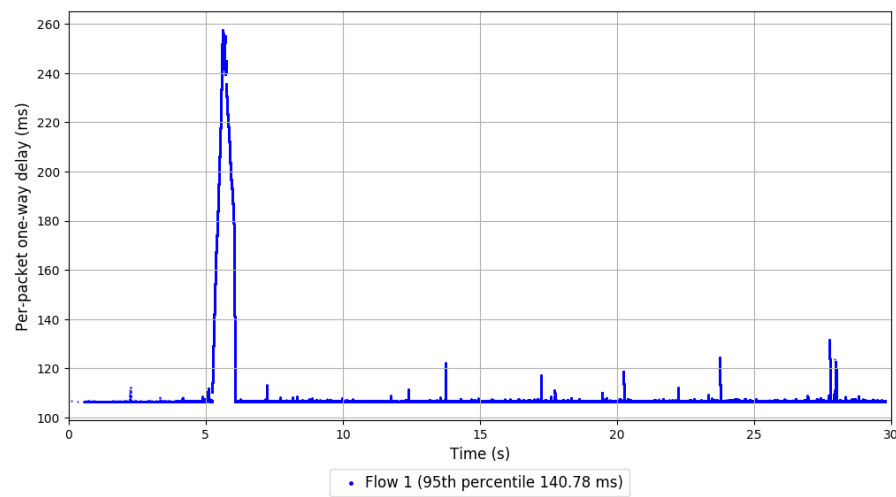
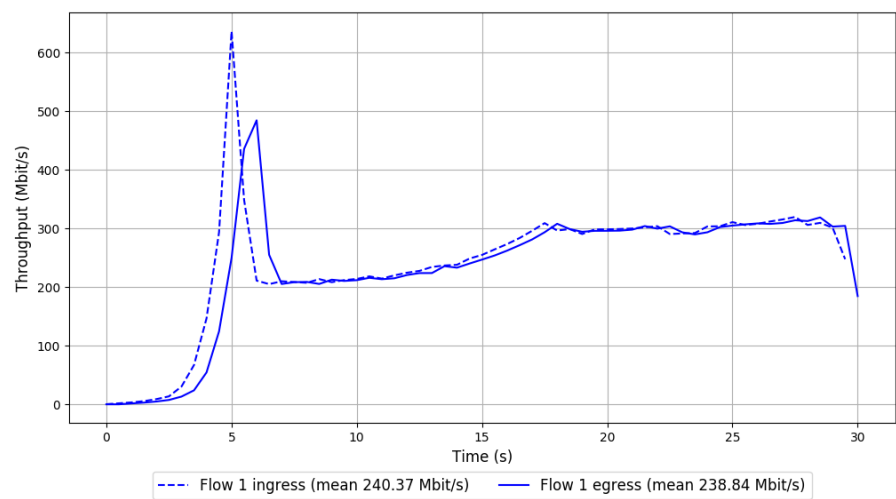
-- Flow 1:

Average throughput: 238.84 Mbit/s

95th percentile per-packet one-way delay: 140.783 ms

Loss rate: 1.35%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-08-26 16:00:13

End at: 2019-08-26 16:00:43

Local clock offset: 11.052 ms

Remote clock offset: 9.144 ms

Below is generated by plot.py at 2019-08-26 21:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 107.098 ms

Loss rate: 0.91%

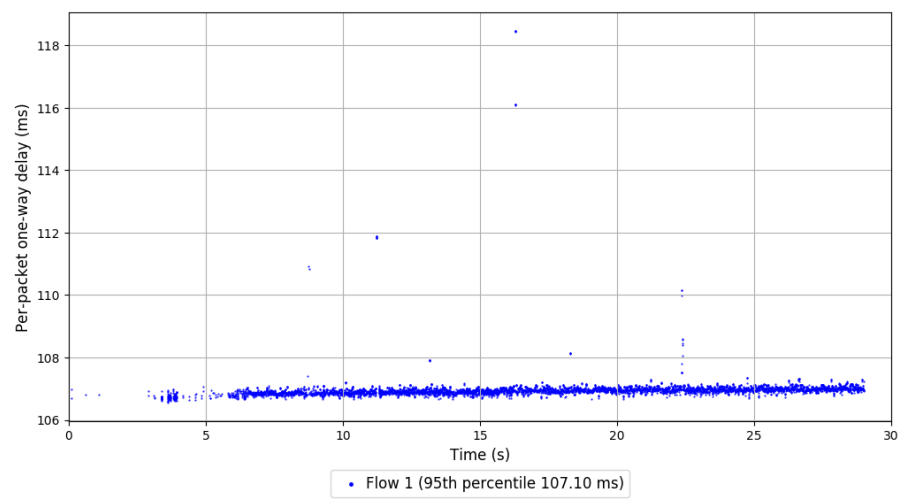
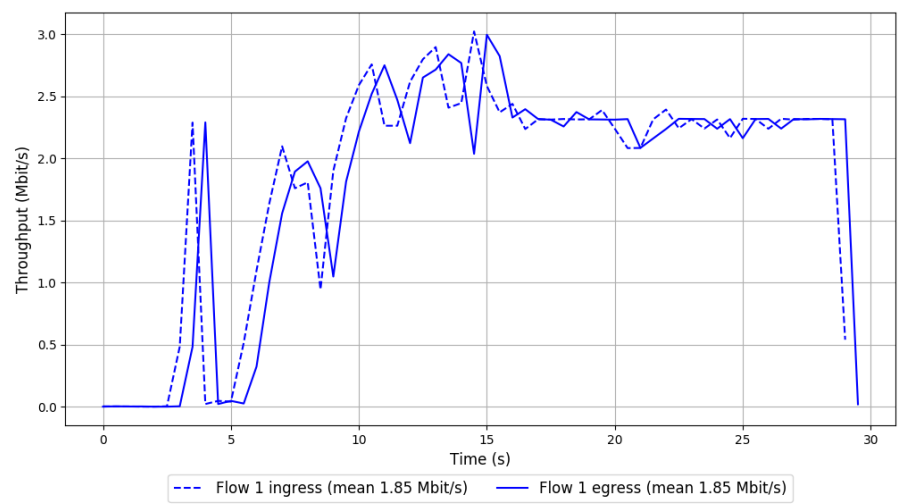
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 107.098 ms

Loss rate: 0.91%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-08-26 16:36:25

End at: 2019-08-26 16:36:55

Local clock offset: 19.413 ms

Remote clock offset: 15.79 ms

Below is generated by plot.py at 2019-08-26 21:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.186 ms

Loss rate: 0.00%

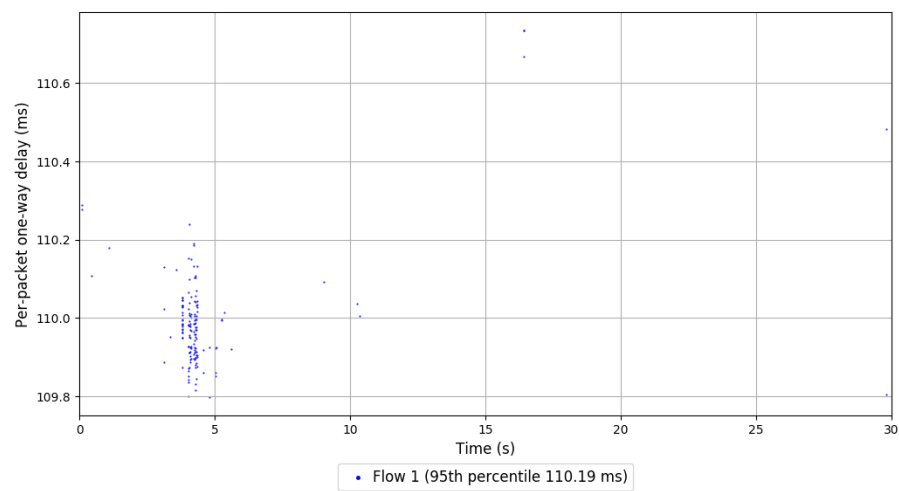
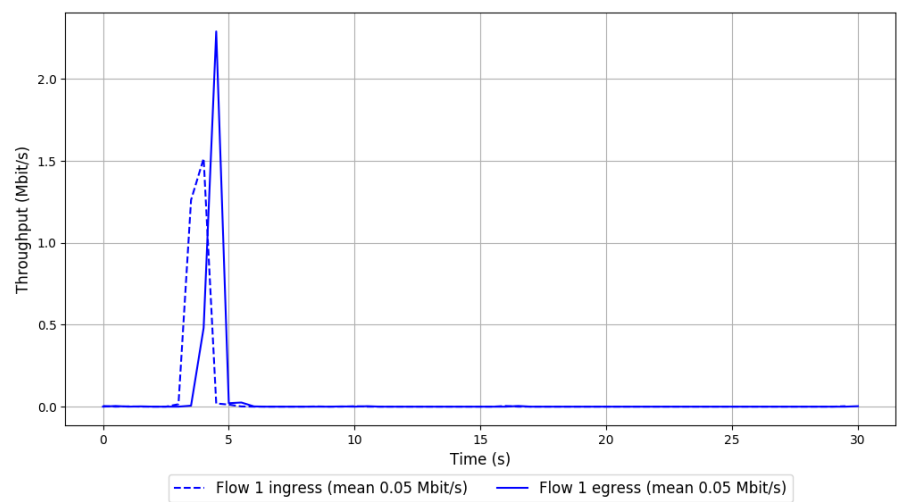
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.186 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-08-26 17:12:32

End at: 2019-08-26 17:13:02

Local clock offset: 16.136 ms

Remote clock offset: 9.993 ms

Below is generated by plot.py at 2019-08-26 21:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 109.707 ms

Loss rate: 0.00%

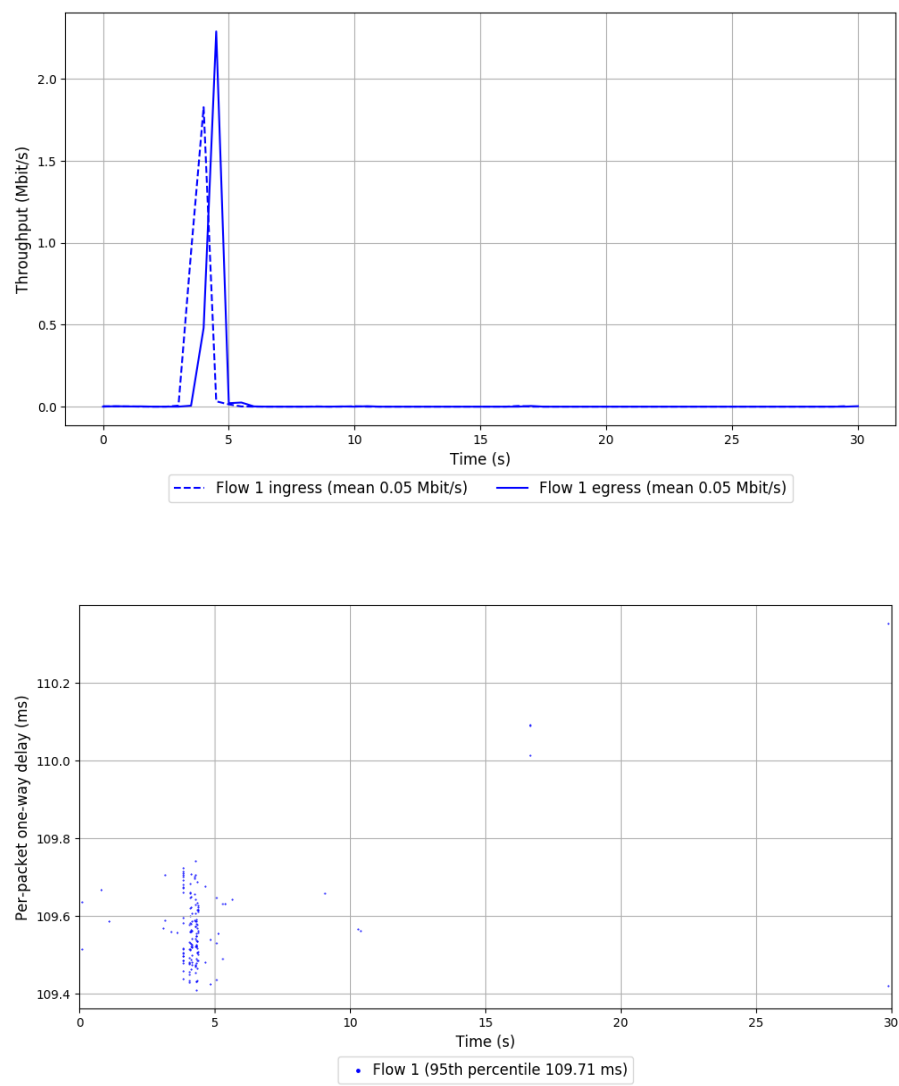
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 109.707 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

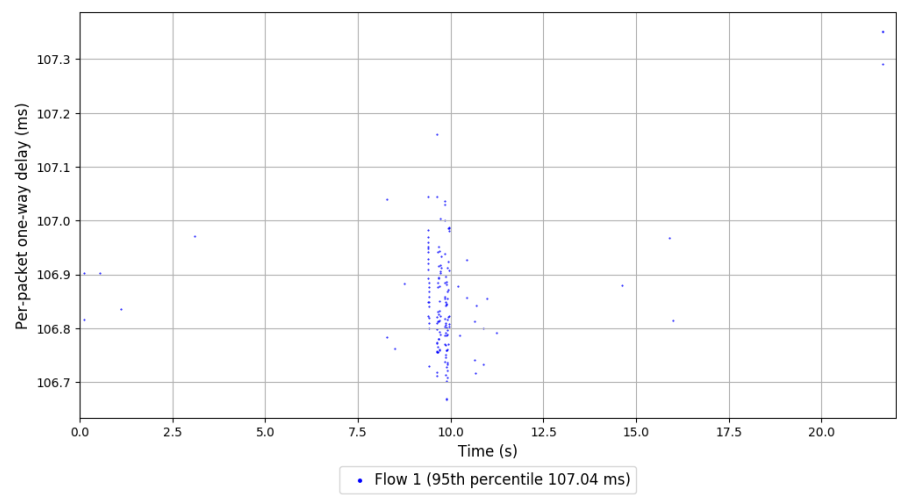
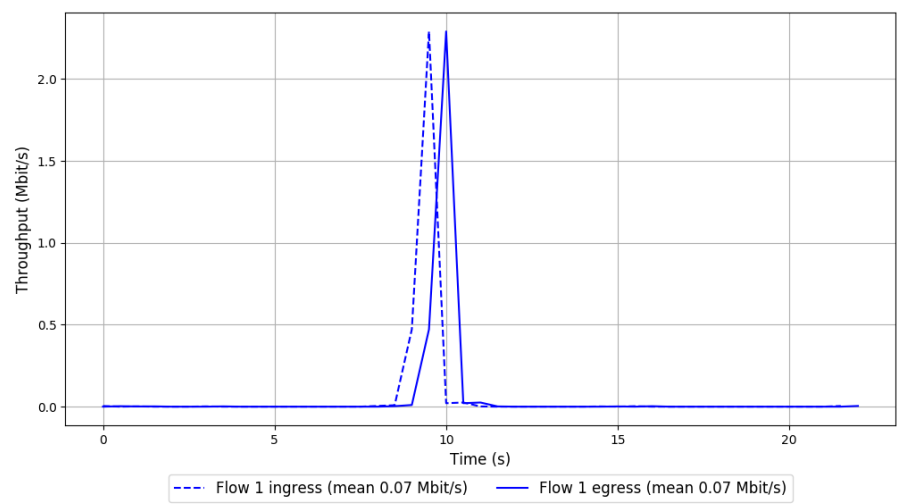
Start at: 2019-08-26 17:49:03

End at: 2019-08-26 17:49:33

Local clock offset: 7.44 ms

Remote clock offset: 2.859 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-08-26 18:25:33

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

Local clock offset: 2.358 ms

Remote clock offset: 1.164 ms

Below is generated by plot.py at 2019-08-26 21:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 106.487 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 106.487 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

