

Pantheon Report

Generated at 2019-08-27 20:17:37 (UTC).

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

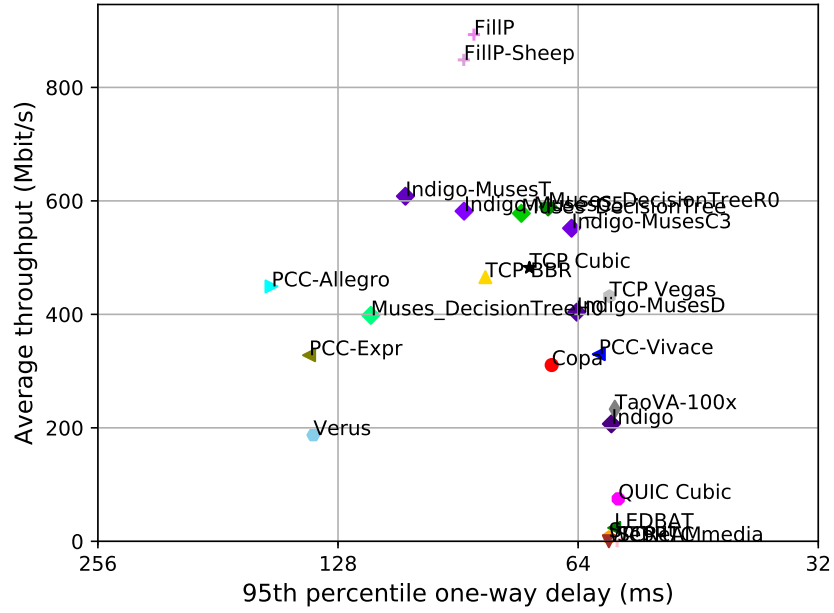
```
Linux 4.15.0-1036-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

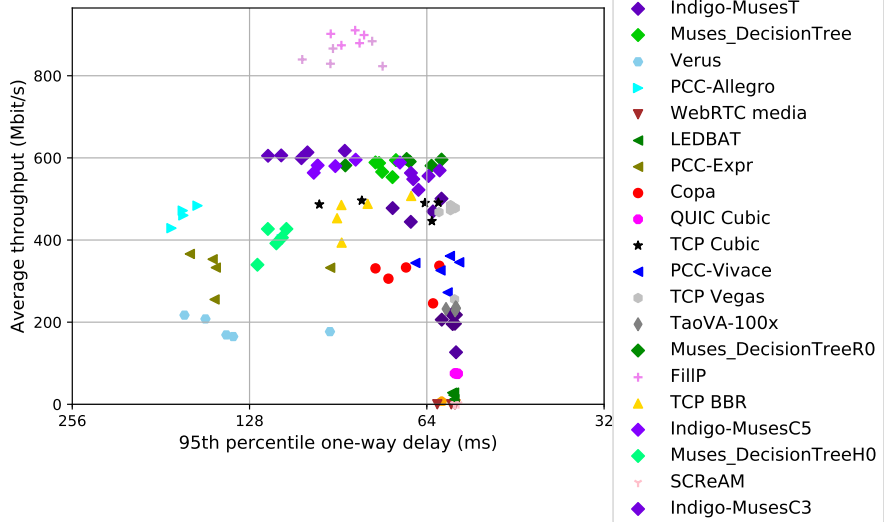
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 Tokyo to GCE Sydney, 5 runs of 30s each per scheme
(mean of all runs by scheme)



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



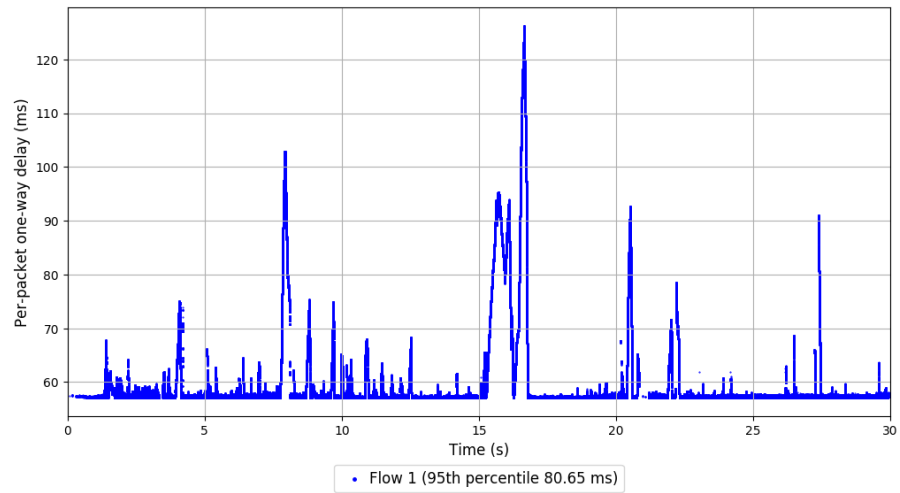
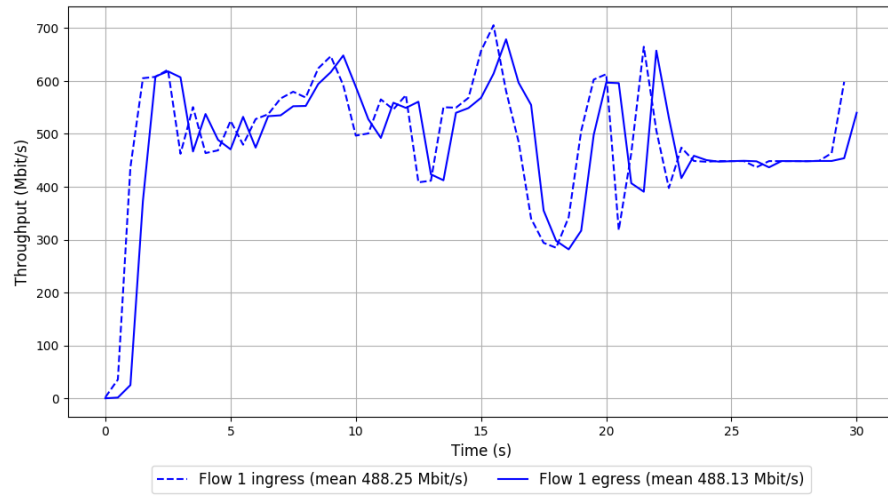
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	465.55	83.65	0.45
Copa	5	310.64	69.08	0.38
TCP Cubic	5	482.03	73.67	0.35
FillP	5	893.08	86.46	0.63
FillP-Sheep	5	848.49	89.03	0.53
Indigo	5	206.95	58.15	0.44
Indigo-MusesC3	5	551.80	65.23	0.46
Indigo-MusesC5	5	581.95	88.96	0.48
Indigo-MusesD	5	403.84	64.26	0.40
Indigo-MusesT	5	608.22	105.38	0.46
LEDBAT	5	23.66	57.68	0.66
Muses_DecisionTree	5	577.99	75.40	0.43
Muses_DecisionTreeH0	5	398.29	116.43	0.42
Muses_DecisionTreeR0	5	589.38	69.79	0.37
PCC-Allegro	5	449.22	155.09	1.92
PCC-Expr	5	328.01	139.15	1.49
QUIC Cubic	5	74.84	57.01	0.55
SCReAM	5	0.22	57.20	0.38
Sprout	5	7.34	58.57	0.42
TaoVA-100x	5	232.91	57.57	0.40
TCP Vegas	5	431.80	58.48	0.40
Verus	5	187.19	137.45	0.86
PCC-Vivace	5	329.91	60.30	0.42
WebRTC media	4	0.05	58.57	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-08-27 15:55:39
End at: 2019-08-27 15:56:09
Local clock offset: -0.003 ms
Remote clock offset: -0.269 ms

Below is generated by plot.py at 2019-08-27 18:45:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 488.13 Mbit/s
95th percentile per-packet one-way delay: 80.653 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 488.13 Mbit/s
95th percentile per-packet one-way delay: 80.653 ms
Loss rate: 0.41%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-08-27 16:29:38

End at: 2019-08-27 16:30:08

Local clock offset: 0.491 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2019-08-27 18:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 507.39 Mbit/s

95th percentile per-packet one-way delay: 68.035 ms

Loss rate: 0.61%

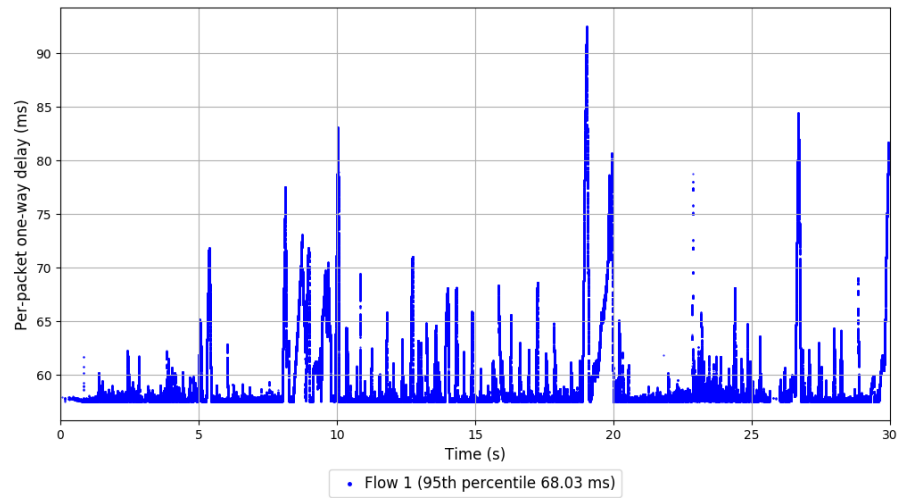
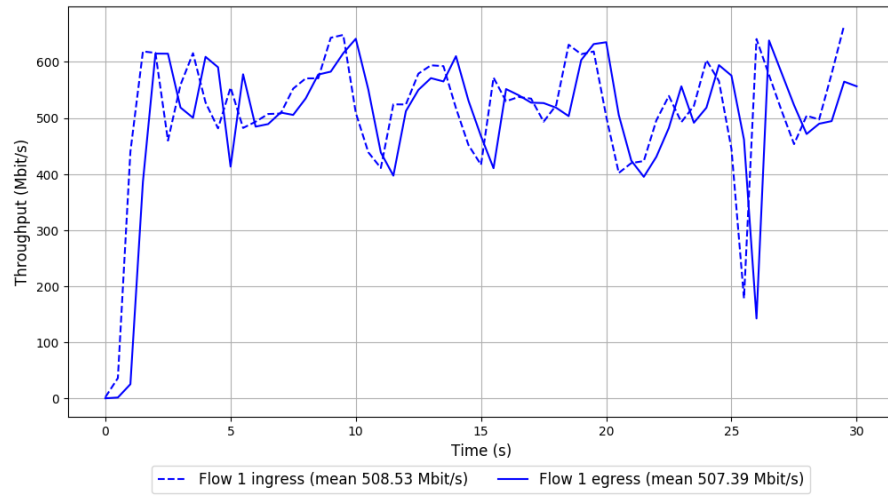
-- Flow 1:

Average throughput: 507.39 Mbit/s

95th percentile per-packet one-way delay: 68.035 ms

Loss rate: 0.61%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-08-27 17:03:46

End at: 2019-08-27 17:04:16

Local clock offset: -0.222 ms

Remote clock offset: -0.002 ms

Below is generated by plot.py at 2019-08-27 18:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 485.33 Mbit/s

95th percentile per-packet one-way delay: 89.376 ms

Loss rate: 0.50%

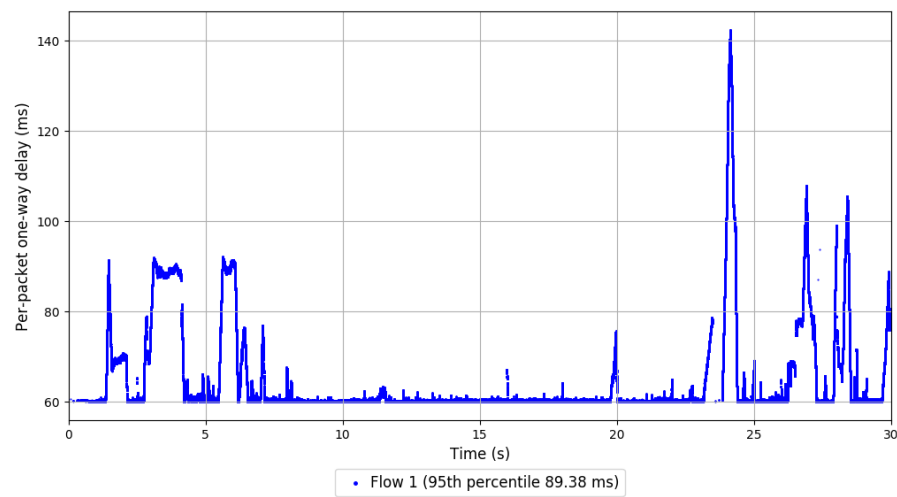
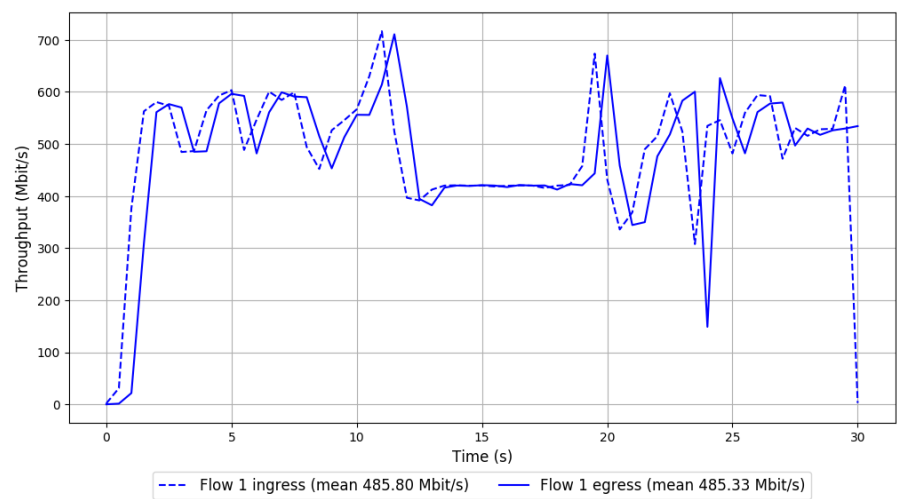
-- Flow 1:

Average throughput: 485.33 Mbit/s

95th percentile per-packet one-way delay: 89.376 ms

Loss rate: 0.50%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-08-27 17:38:09

End at: 2019-08-27 17:38:39

Local clock offset: 0.238 ms

Remote clock offset: 0.19 ms

Below is generated by plot.py at 2019-08-27 18:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 453.16 Mbit/s

95th percentile per-packet one-way delay: 90.902 ms

Loss rate: 0.30%

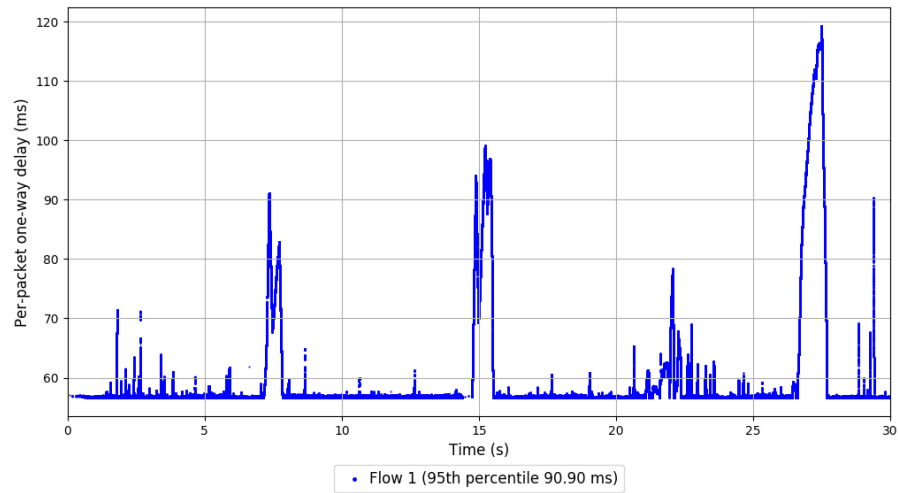
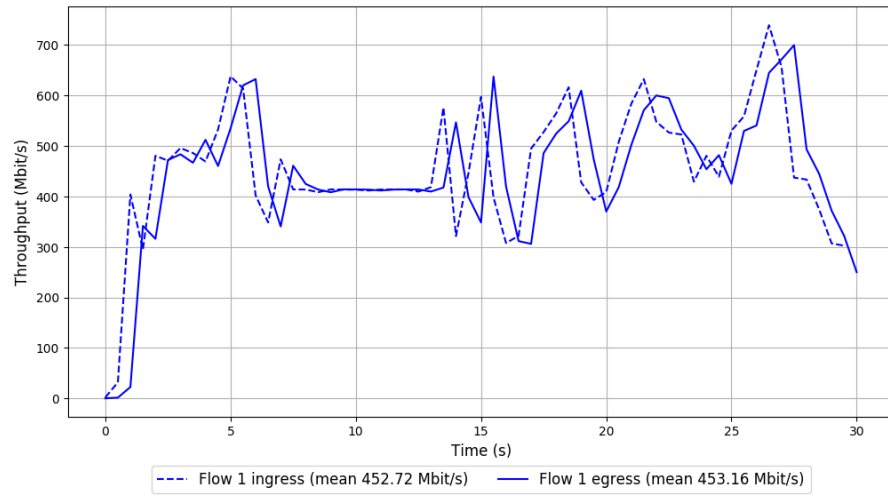
-- Flow 1:

Average throughput: 453.16 Mbit/s

95th percentile per-packet one-way delay: 90.902 ms

Loss rate: 0.30%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-08-27 18:12:19

End at: 2019-08-27 18:12:49

Local clock offset: 0.164 ms

Remote clock offset: 0.165 ms

Below is generated by plot.py at 2019-08-27 18:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.74 Mbit/s

95th percentile per-packet one-way delay: 89.295 ms

Loss rate: 0.42%

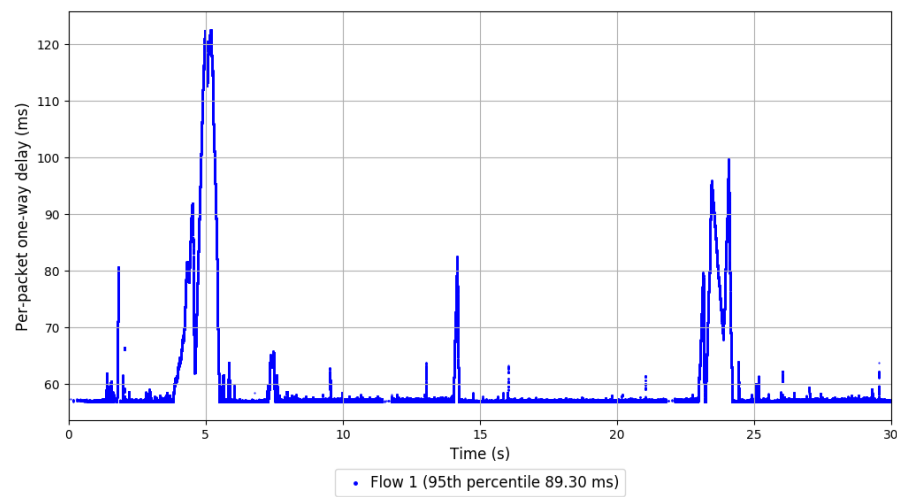
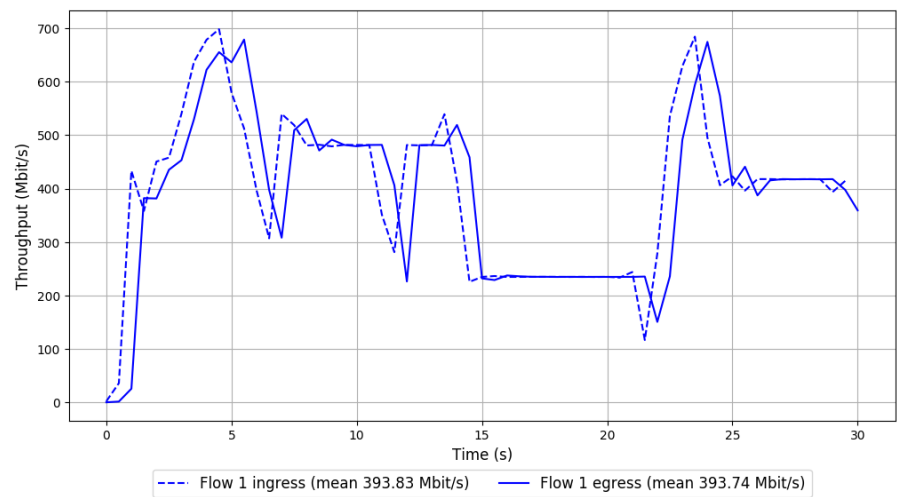
-- Flow 1:

Average throughput: 393.74 Mbit/s

95th percentile per-packet one-way delay: 89.295 ms

Loss rate: 0.42%

Run 5: Report of TCP BBR — Data Link

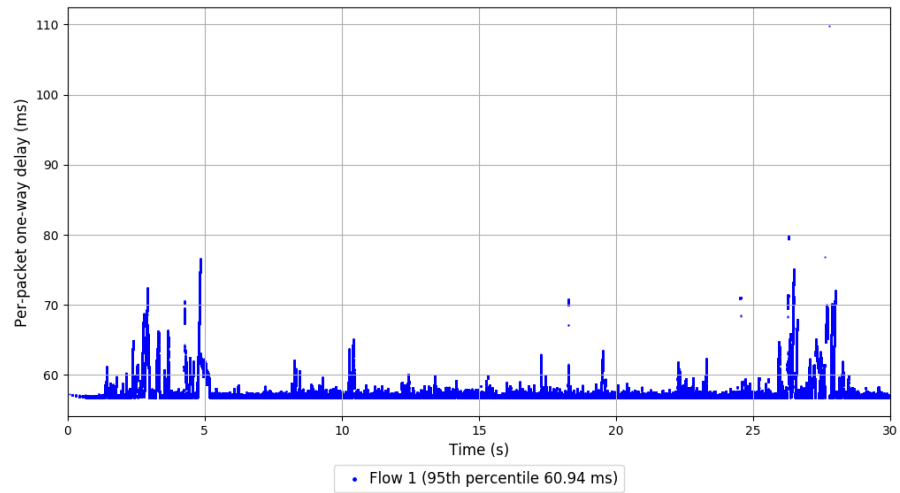
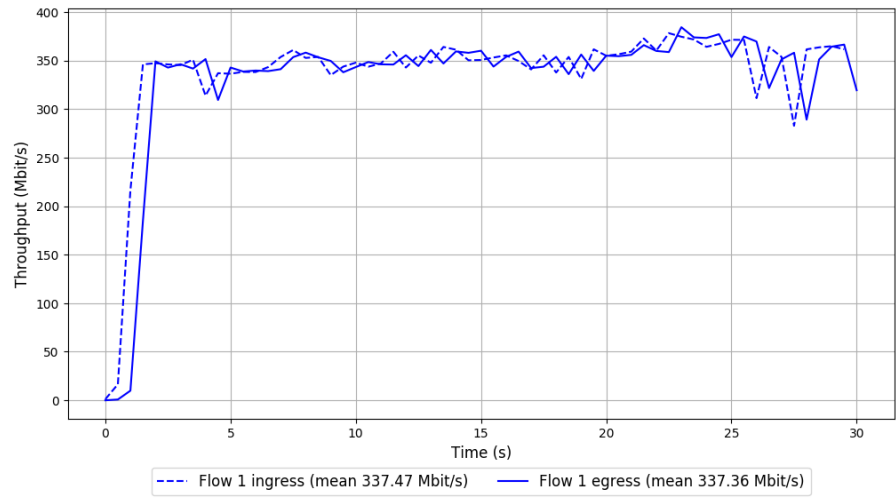


Run 1: Statistics of Copa

Start at: 2019-08-27 16:00:09
End at: 2019-08-27 16:00:39
Local clock offset: -0.01 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2019-08-27 18:47:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 337.36 Mbit/s
95th percentile per-packet one-way delay: 60.942 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 337.36 Mbit/s
95th percentile per-packet one-way delay: 60.942 ms
Loss rate: 0.42%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-08-27 16:34:15

End at: 2019-08-27 16:34:45

Local clock offset: -0.06 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2019-08-27 18:47:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.17 Mbit/s

95th percentile per-packet one-way delay: 69.420 ms

Loss rate: 0.40%

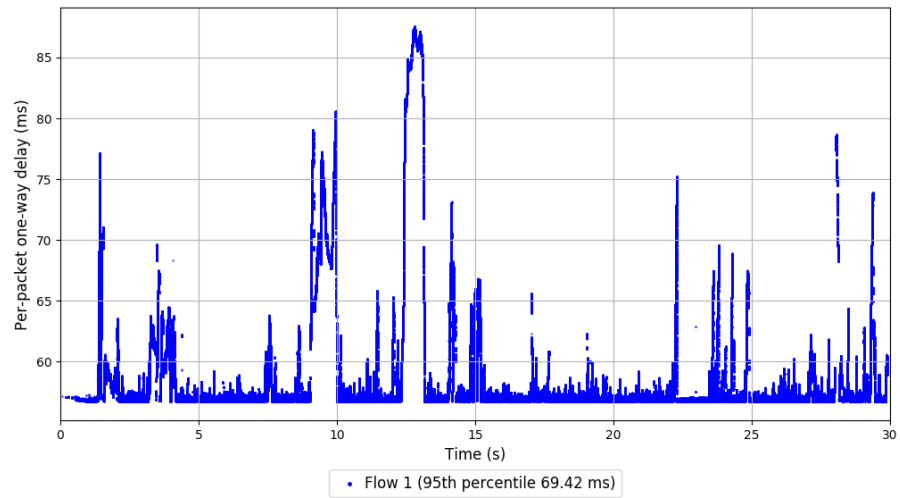
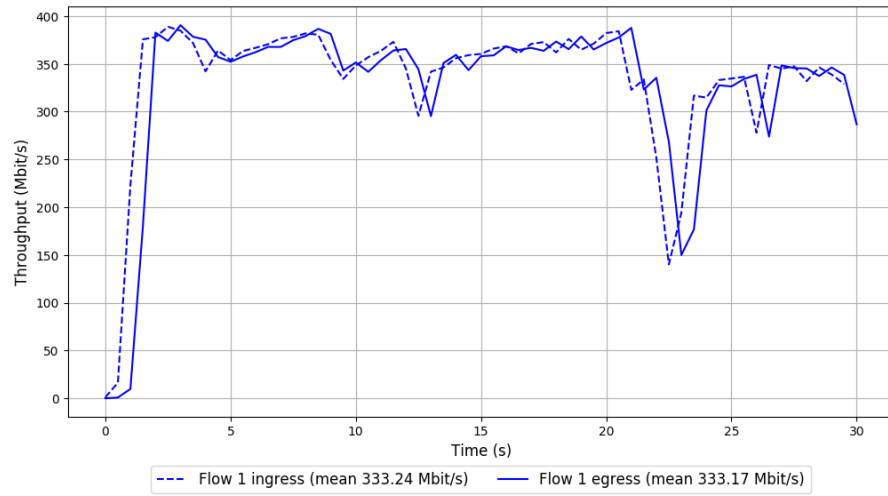
-- Flow 1:

Average throughput: 333.17 Mbit/s

95th percentile per-packet one-way delay: 69.420 ms

Loss rate: 0.40%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-08-27 17:08:24

End at: 2019-08-27 17:08:54

Local clock offset: 0.266 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2019-08-27 18:47:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.89 Mbit/s

95th percentile per-packet one-way delay: 74.369 ms

Loss rate: 0.41%

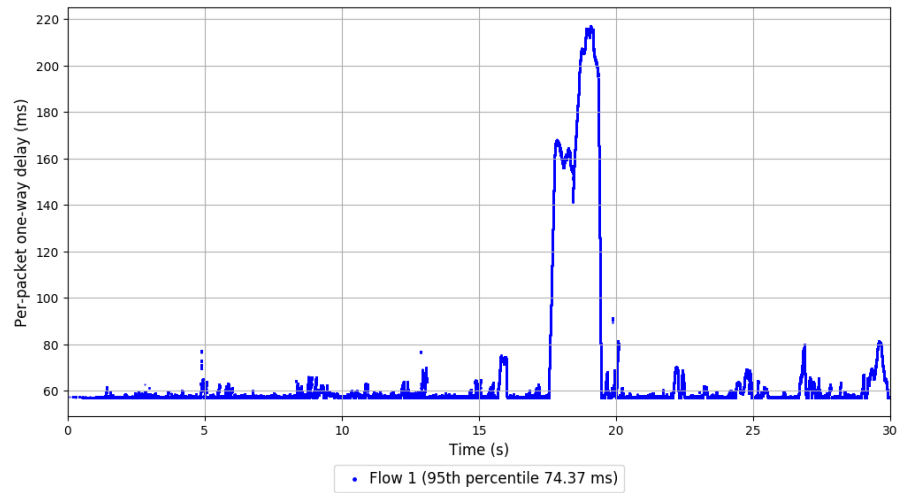
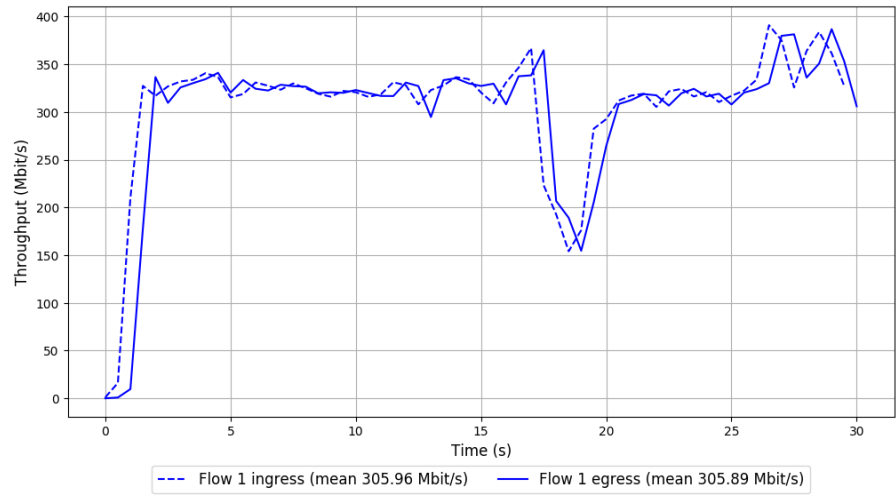
-- Flow 1:

Average throughput: 305.89 Mbit/s

95th percentile per-packet one-way delay: 74.369 ms

Loss rate: 0.41%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-08-27 17:42:44

End at: 2019-08-27 17:43:14

Local clock offset: 0.11 ms

Remote clock offset: 0.172 ms

Below is generated by plot.py at 2019-08-27 18:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.78 Mbit/s

95th percentile per-packet one-way delay: 62.459 ms

Loss rate: 0.35%

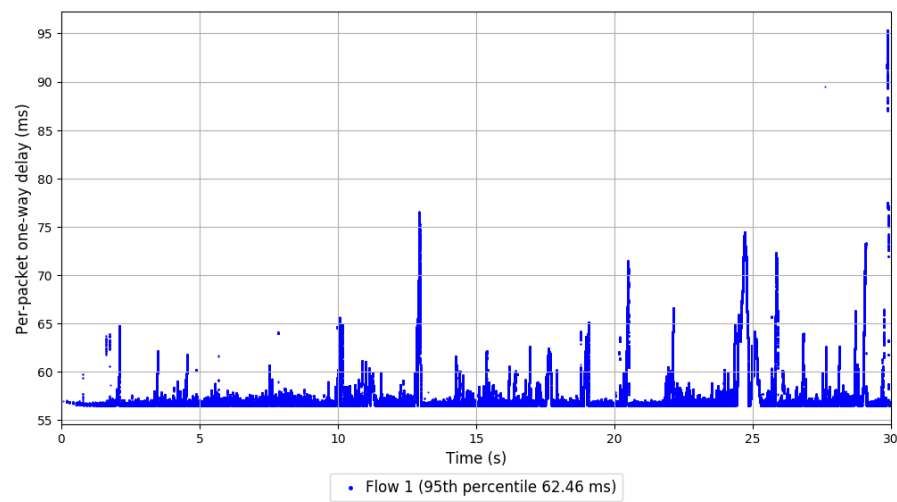
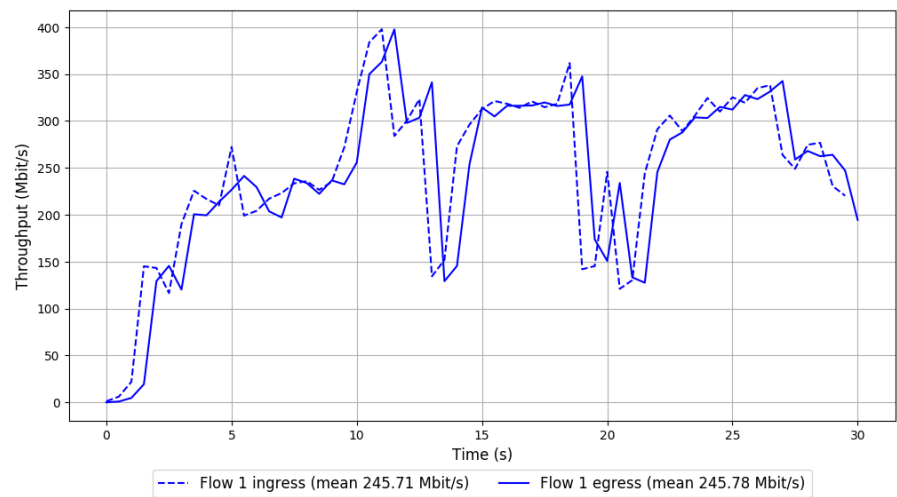
-- Flow 1:

Average throughput: 245.78 Mbit/s

95th percentile per-packet one-way delay: 62.459 ms

Loss rate: 0.35%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-08-27 18:16:52

End at: 2019-08-27 18:17:22

Local clock offset: 0.323 ms

Remote clock offset: 0.251 ms

Below is generated by plot.py at 2019-08-27 18:53:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.99 Mbit/s

95th percentile per-packet one-way delay: 78.233 ms

Loss rate: 0.33%

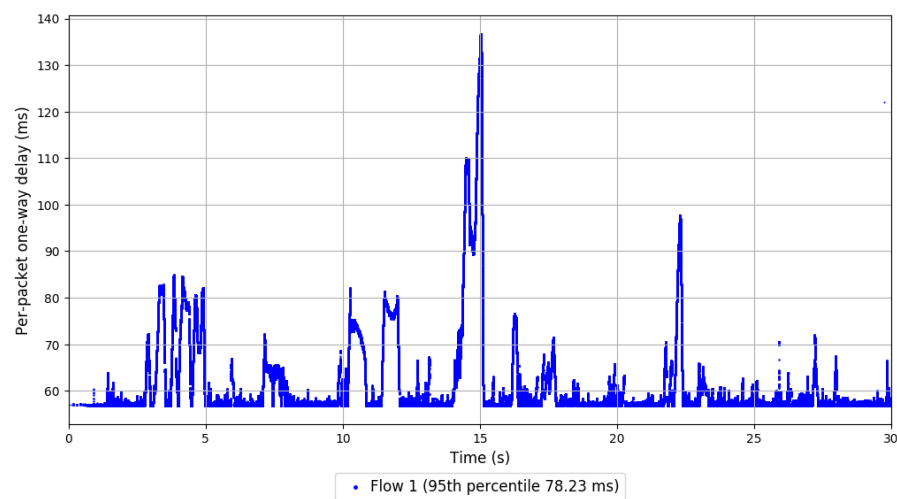
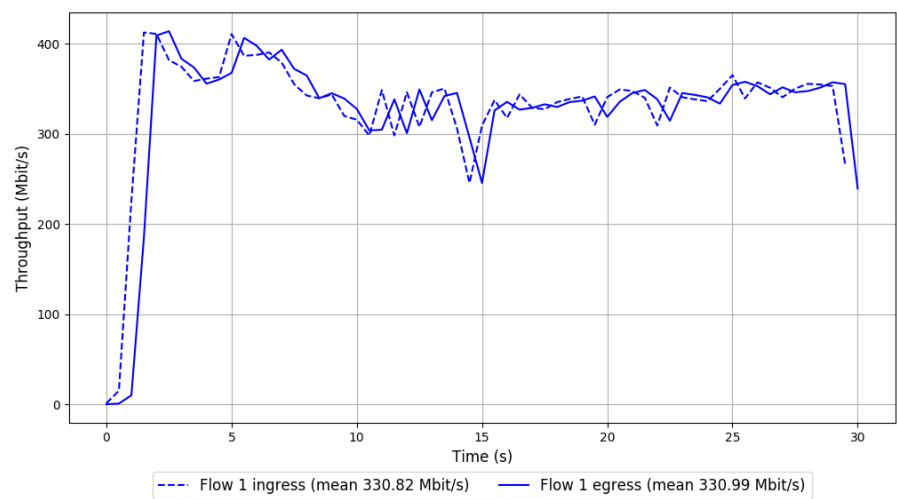
-- Flow 1:

Average throughput: 330.99 Mbit/s

95th percentile per-packet one-way delay: 78.233 ms

Loss rate: 0.33%

Run 5: Report of Copa — Data Link

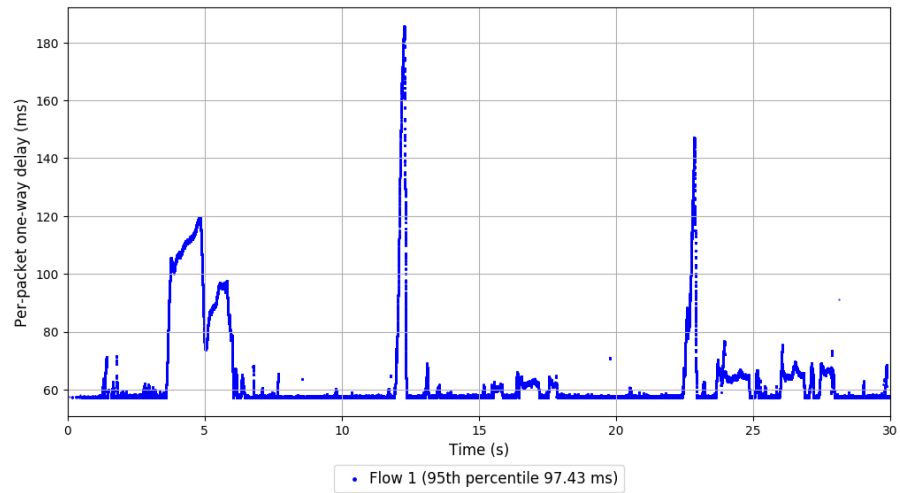
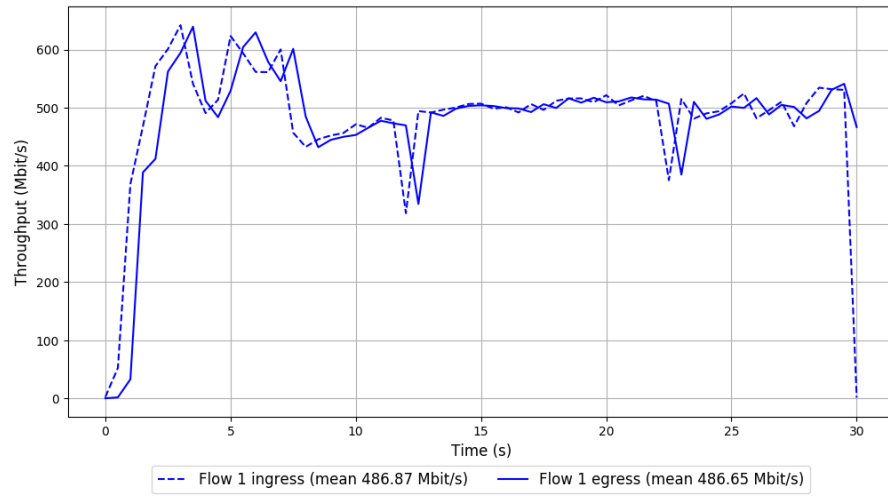


Run 1: Statistics of TCP Cubic

Start at: 2019-08-27 16:05:47
End at: 2019-08-27 16:06:17
Local clock offset: 0.004 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2019-08-27 18:53:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 486.65 Mbit/s
95th percentile per-packet one-way delay: 97.426 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 486.65 Mbit/s
95th percentile per-packet one-way delay: 97.426 ms
Loss rate: 0.43%

Run 1: Report of TCP Cubic — Data Link

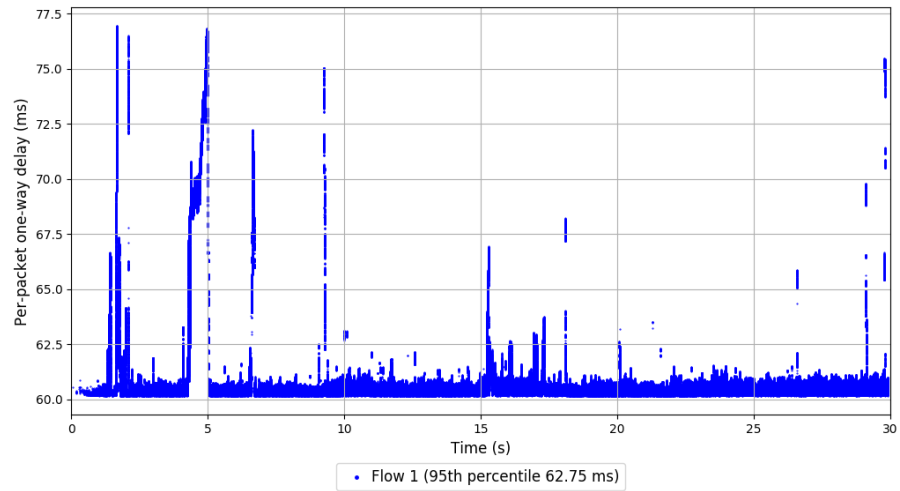
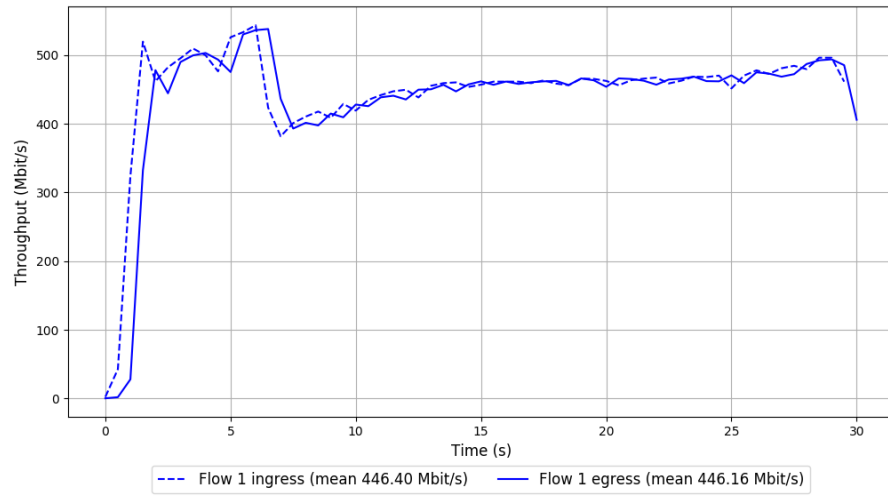


Run 2: Statistics of TCP Cubic

Start at: 2019-08-27 16:39:54
End at: 2019-08-27 16:40:24
Local clock offset: -0.108 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2019-08-27 18:53:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 446.16 Mbit/s
95th percentile per-packet one-way delay: 62.749 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 446.16 Mbit/s
95th percentile per-packet one-way delay: 62.749 ms
Loss rate: 0.45%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-08-27 17:14:02

End at: 2019-08-27 17:14:32

Local clock offset: 0.176 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2019-08-27 18:53:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.09 Mbit/s

95th percentile per-packet one-way delay: 61.173 ms

Loss rate: 0.21%

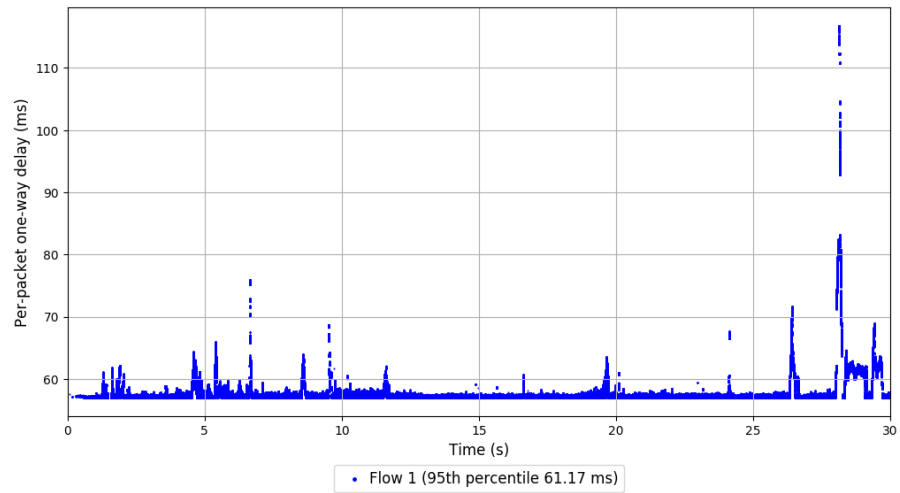
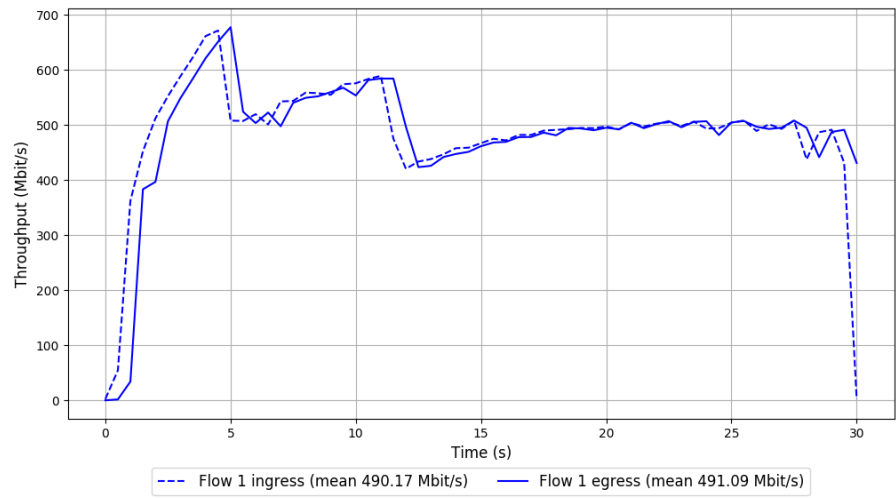
-- Flow 1:

Average throughput: 491.09 Mbit/s

95th percentile per-packet one-way delay: 61.173 ms

Loss rate: 0.21%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-08-27 17:48:12

End at: 2019-08-27 17:48:42

Local clock offset: 0.729 ms

Remote clock offset: 0.203 ms

Below is generated by plot.py at 2019-08-27 18:53:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 490.20 Mbit/s

95th percentile per-packet one-way delay: 64.470 ms

Loss rate: 0.28%

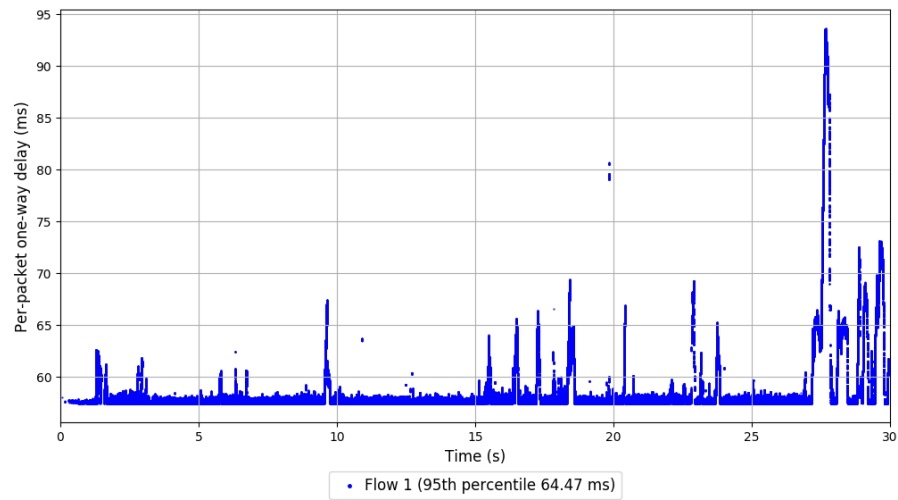
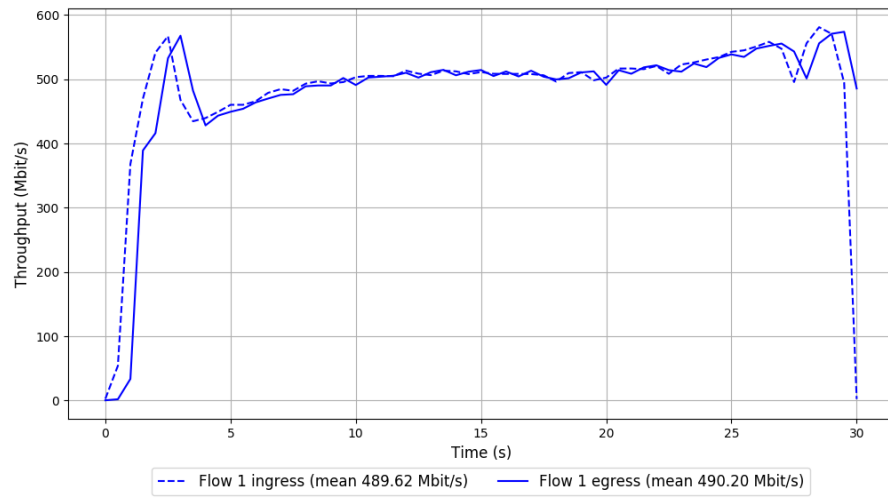
-- Flow 1:

Average throughput: 490.20 Mbit/s

95th percentile per-packet one-way delay: 64.470 ms

Loss rate: 0.28%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-08-27 18:22:36

End at: 2019-08-27 18:23:06

Local clock offset: 0.7 ms

Remote clock offset: 0.27 ms

Below is generated by plot.py at 2019-08-27 18:54:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 496.05 Mbit/s

95th percentile per-packet one-way delay: 82.518 ms

Loss rate: 0.37%

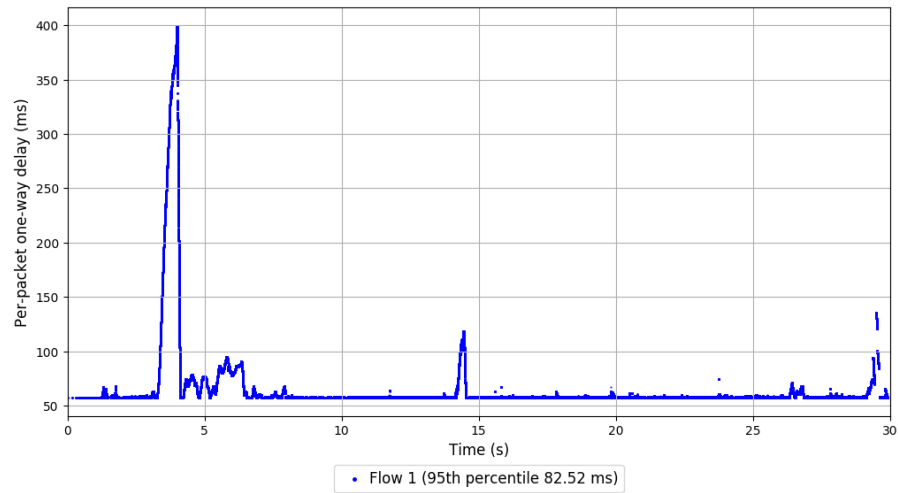
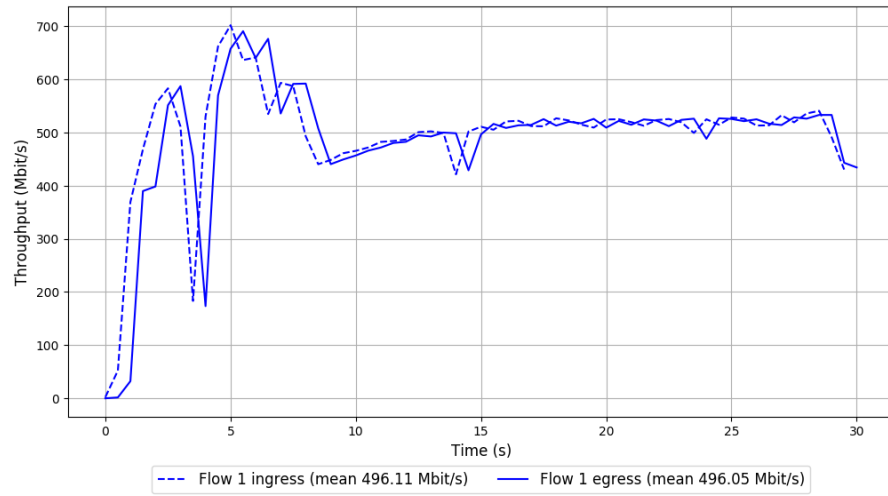
-- Flow 1:

Average throughput: 496.05 Mbit/s

95th percentile per-packet one-way delay: 82.518 ms

Loss rate: 0.37%

Run 5: Report of TCP Cubic — Data Link

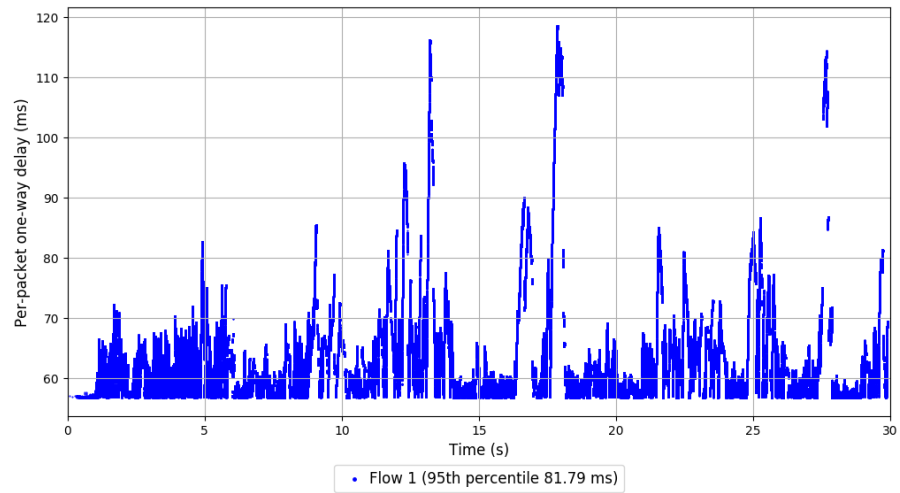
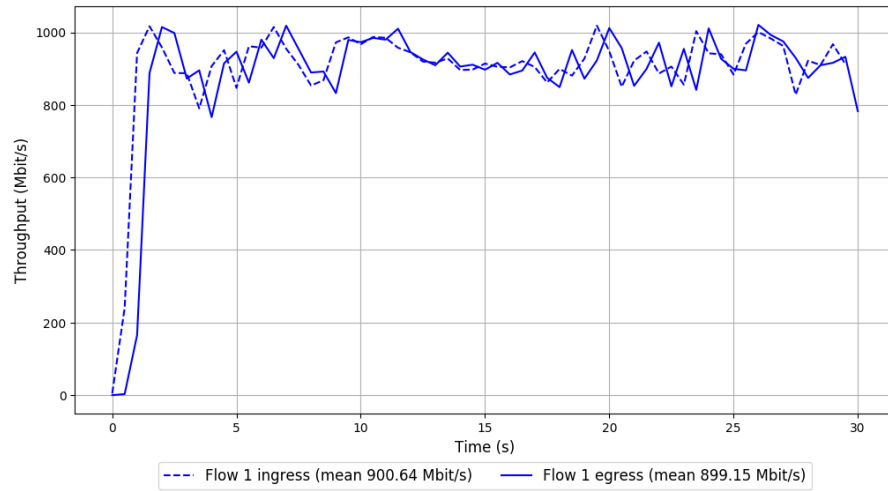


Run 1: Statistics of FillP

Start at: 2019-08-27 15:58:29
End at: 2019-08-27 15:58:59
Local clock offset: -0.022 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2019-08-27 19:02:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 899.15 Mbit/s
95th percentile per-packet one-way delay: 81.794 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 899.15 Mbit/s
95th percentile per-packet one-way delay: 81.794 ms
Loss rate: 0.53%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-08-27 16:32:36

End at: 2019-08-27 16:33:06

Local clock offset: -0.344 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2019-08-27 19:07:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 879.42 Mbit/s

95th percentile per-packet one-way delay: 83.246 ms

Loss rate: 0.45%

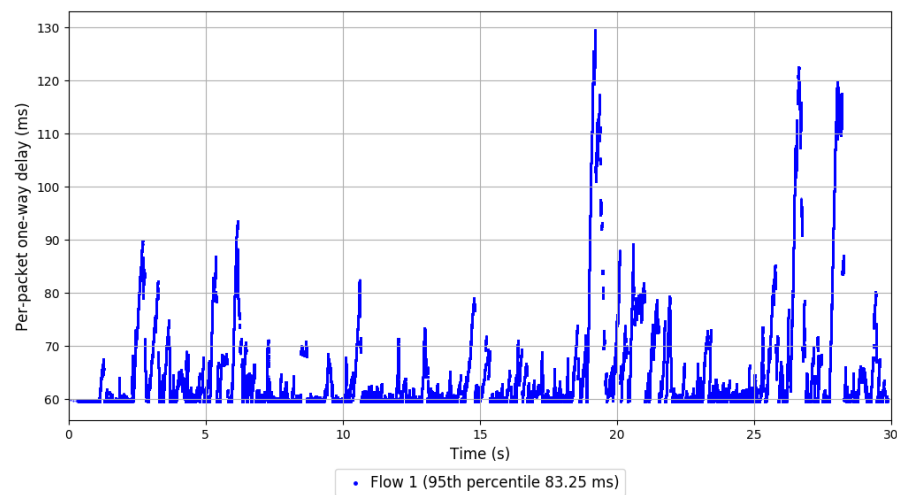
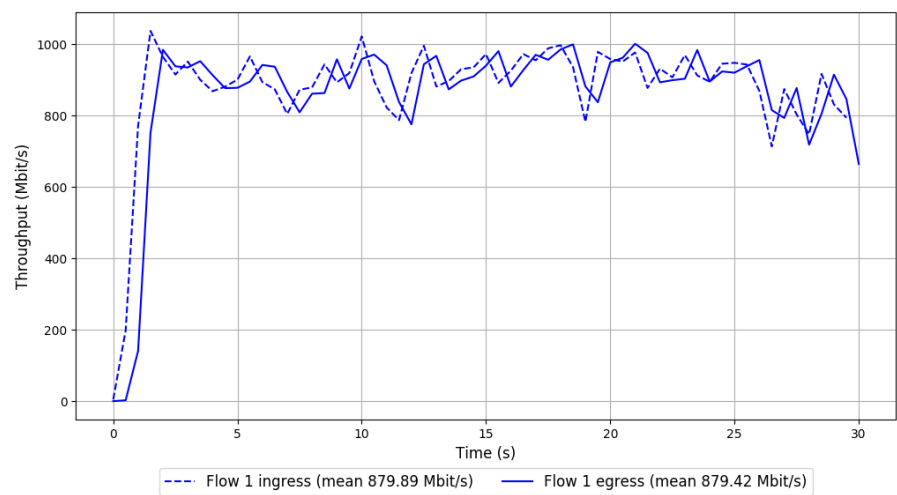
-- Flow 1:

Average throughput: 879.42 Mbit/s

95th percentile per-packet one-way delay: 83.246 ms

Loss rate: 0.45%

Run 2: Report of FillP — Data Link

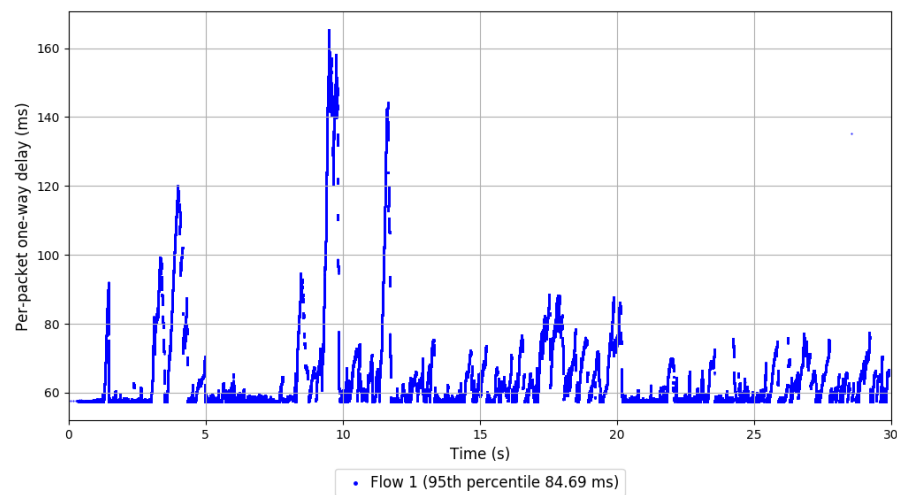
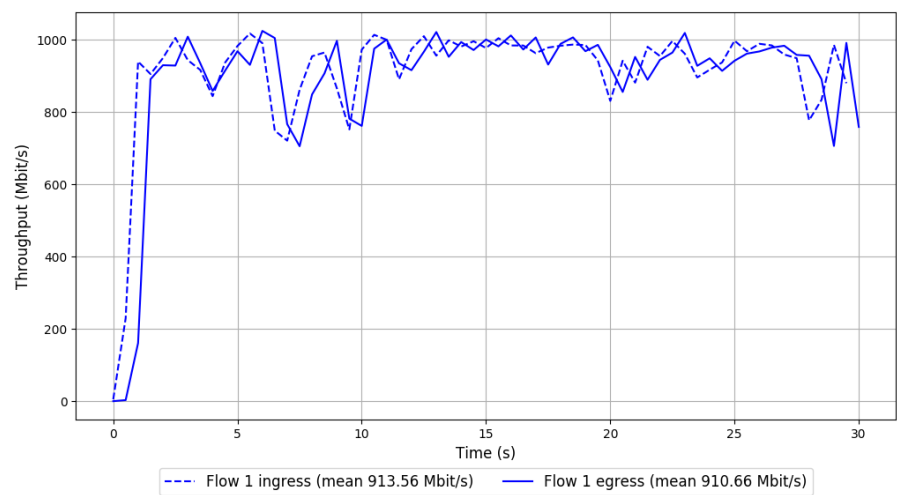


Run 3: Statistics of FillP

Start at: 2019-08-27 17:06:45
End at: 2019-08-27 17:07:15
Local clock offset: 0.23 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2019-08-27 19:08:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 910.66 Mbit/s
95th percentile per-packet one-way delay: 84.695 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 910.66 Mbit/s
95th percentile per-packet one-way delay: 84.695 ms
Loss rate: 0.71%

Run 3: Report of FillP — Data Link

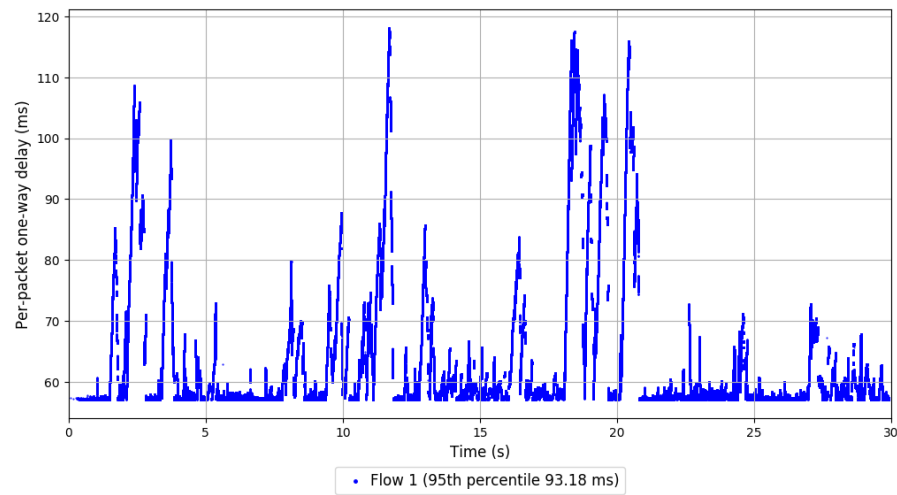
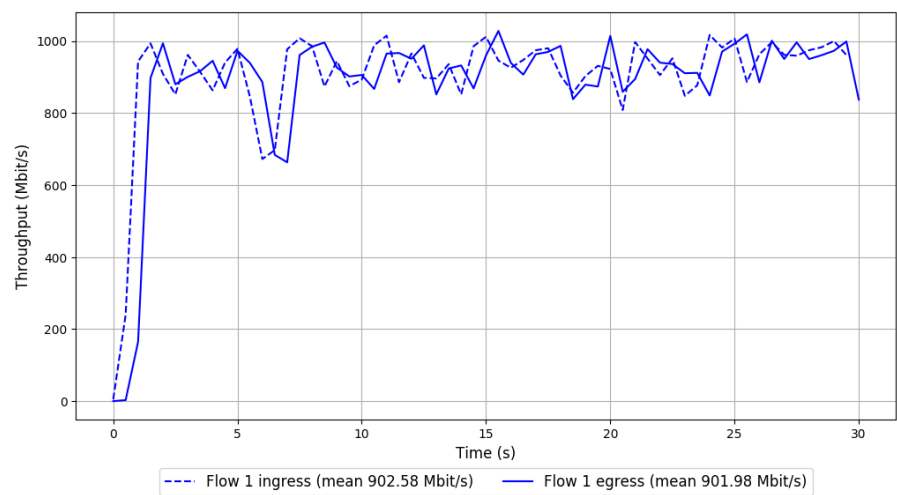


Run 4: Statistics of FillP

Start at: 2019-08-27 17:41:05
End at: 2019-08-27 17:41:35
Local clock offset: 0.419 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-08-27 19:08:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 901.98 Mbit/s
95th percentile per-packet one-way delay: 93.182 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 901.98 Mbit/s
95th percentile per-packet one-way delay: 93.182 ms
Loss rate: 0.46%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-08-27 18:15:13

End at: 2019-08-27 18:15:43

Local clock offset: 0.249 ms

Remote clock offset: 0.148 ms

Below is generated by plot.py at 2019-08-27 19:08:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 874.17 Mbit/s

95th percentile per-packet one-way delay: 89.382 ms

Loss rate: 1.02%

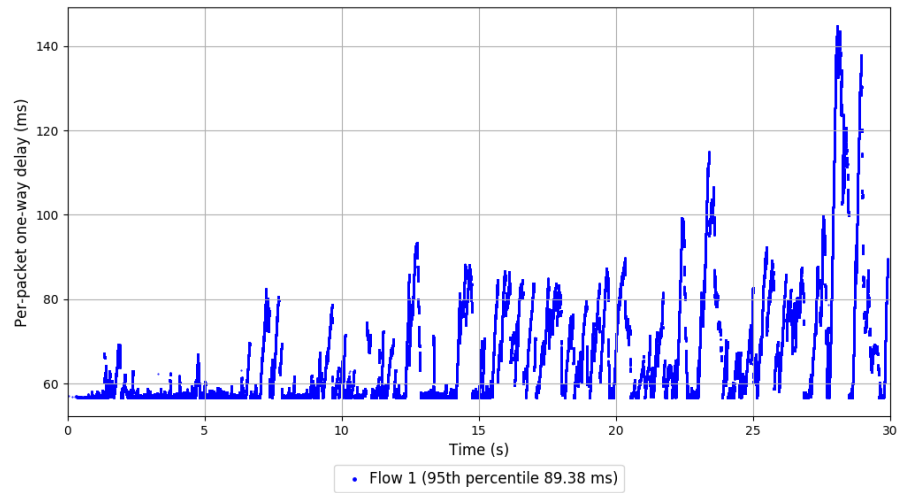
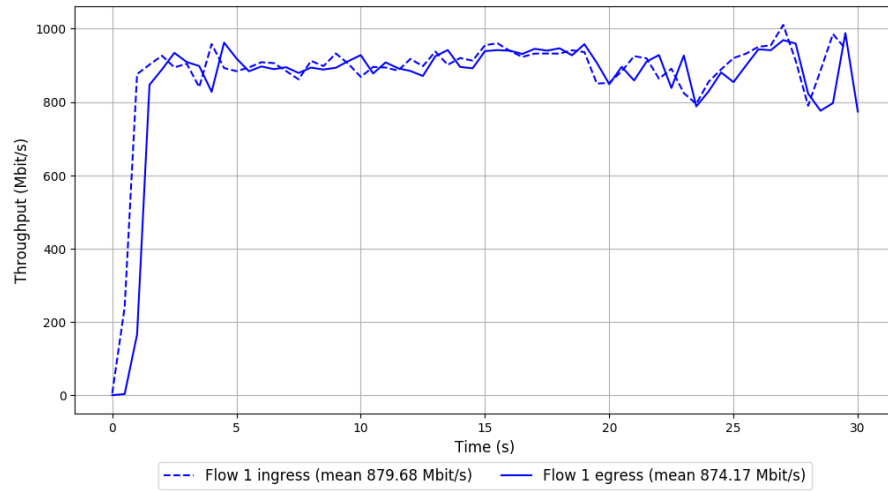
-- Flow 1:

Average throughput: 874.17 Mbit/s

95th percentile per-packet one-way delay: 89.382 ms

Loss rate: 1.02%

Run 5: Report of FillP — Data Link

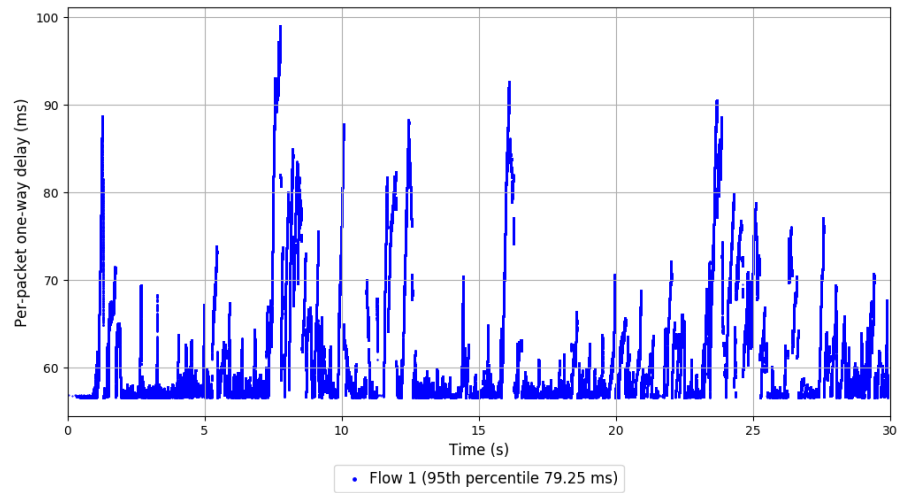
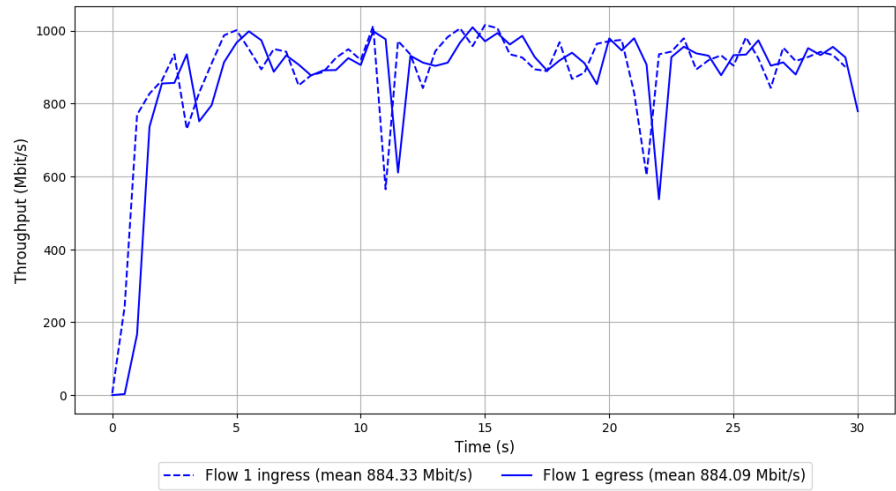


Run 1: Statistics of FillP-Sheep

Start at: 2019-08-27 15:54:00
End at: 2019-08-27 15:54:31
Local clock offset: -0.304 ms
Remote clock offset: -0.203 ms

Below is generated by plot.py at 2019-08-27 19:09:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 884.09 Mbit/s
95th percentile per-packet one-way delay: 79.247 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 884.09 Mbit/s
95th percentile per-packet one-way delay: 79.247 ms
Loss rate: 0.41%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-08-27 16:28:02

End at: 2019-08-27 16:28:32

Local clock offset: 0.099 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2019-08-27 19:09:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 823.29 Mbit/s

95th percentile per-packet one-way delay: 76.079 ms

Loss rate: 0.53%

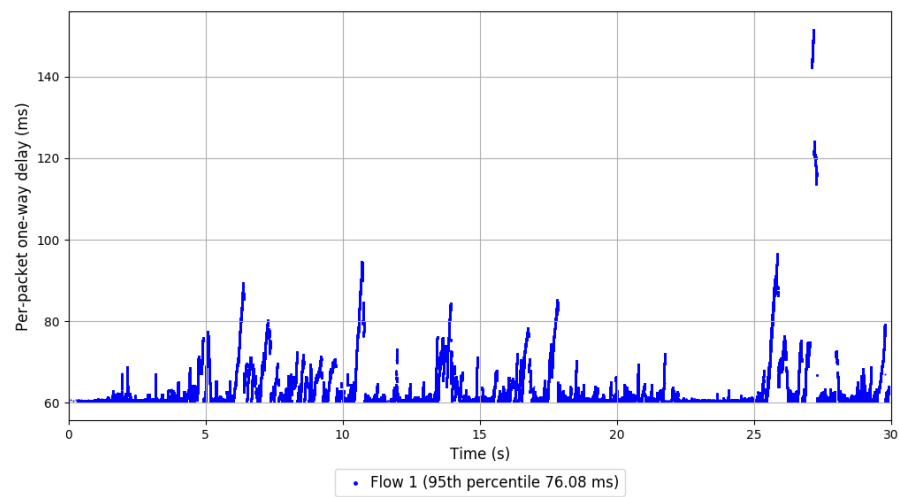
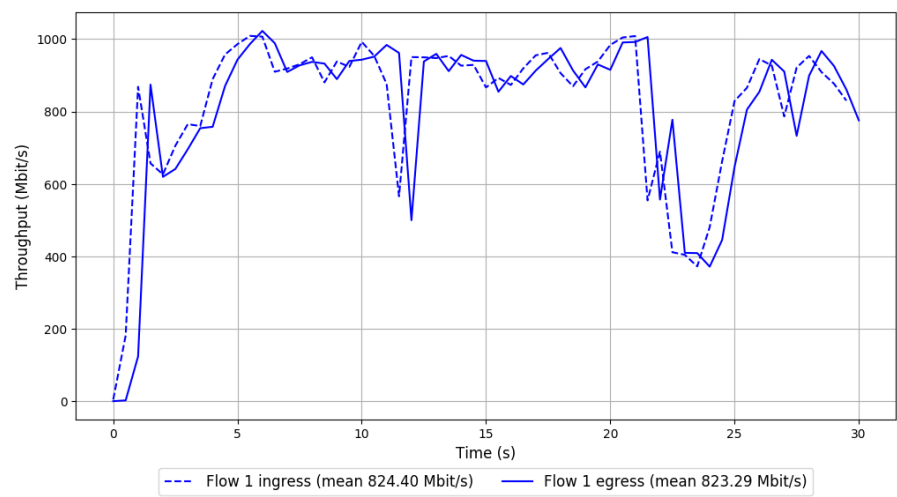
-- Flow 1:

Average throughput: 823.29 Mbit/s

95th percentile per-packet one-way delay: 76.079 ms

Loss rate: 0.53%

Run 2: Report of FillP-Sheep — Data Link

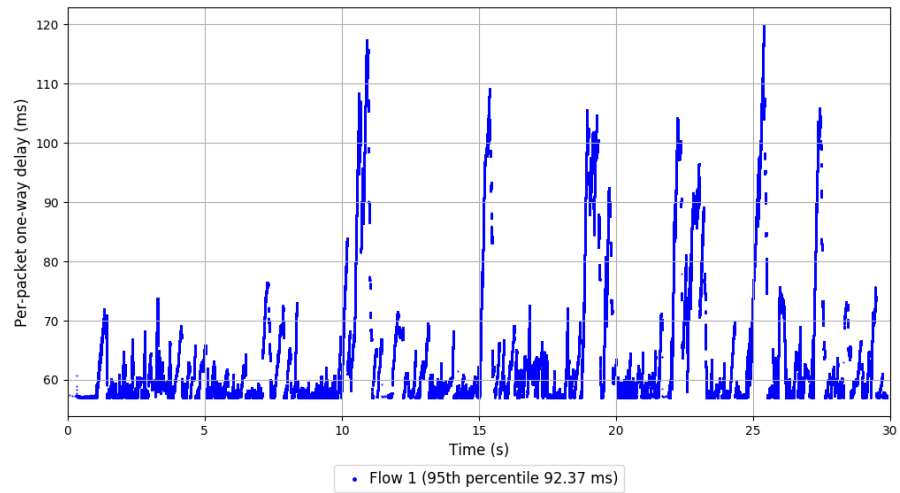
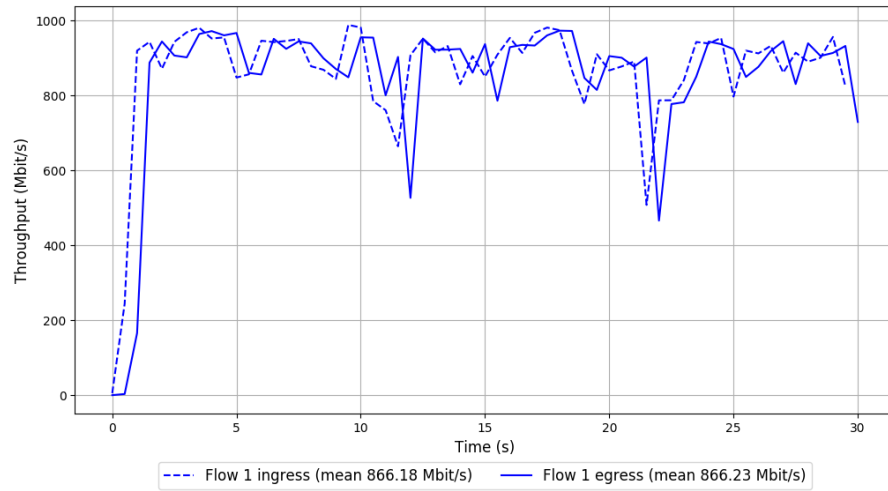


Run 3: Statistics of FillP-Sheep

Start at: 2019-08-27 17:02:08
End at: 2019-08-27 17:02:38
Local clock offset: 0.362 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2019-08-27 19:09:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 866.23 Mbit/s
95th percentile per-packet one-way delay: 92.372 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 866.23 Mbit/s
95th percentile per-packet one-way delay: 92.372 ms
Loss rate: 0.41%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-08-27 17:36:33

End at: 2019-08-27 17:37:03

Local clock offset: -0.086 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2019-08-27 19:19:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 839.58 Mbit/s

95th percentile per-packet one-way delay: 104.163 ms

Loss rate: 0.79%

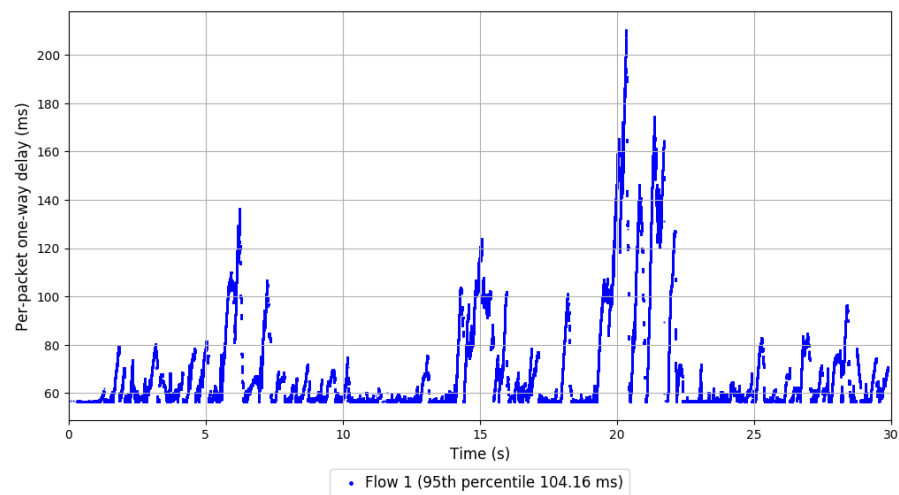
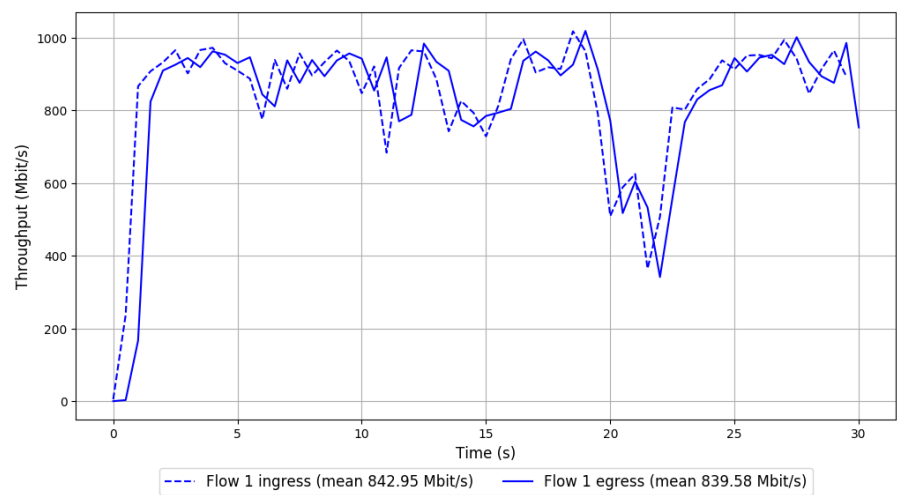
-- Flow 1:

Average throughput: 839.58 Mbit/s

95th percentile per-packet one-way delay: 104.163 ms

Loss rate: 0.79%

Run 4: Report of FillP-Sheep — Data Link

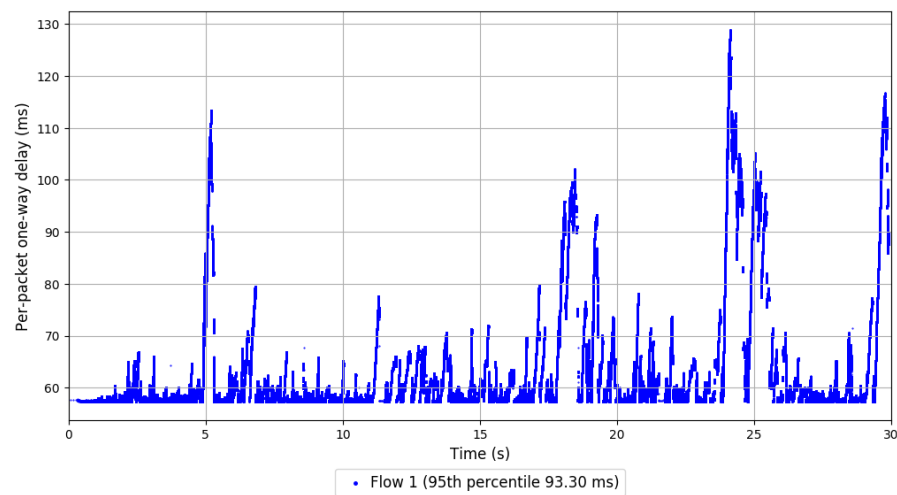
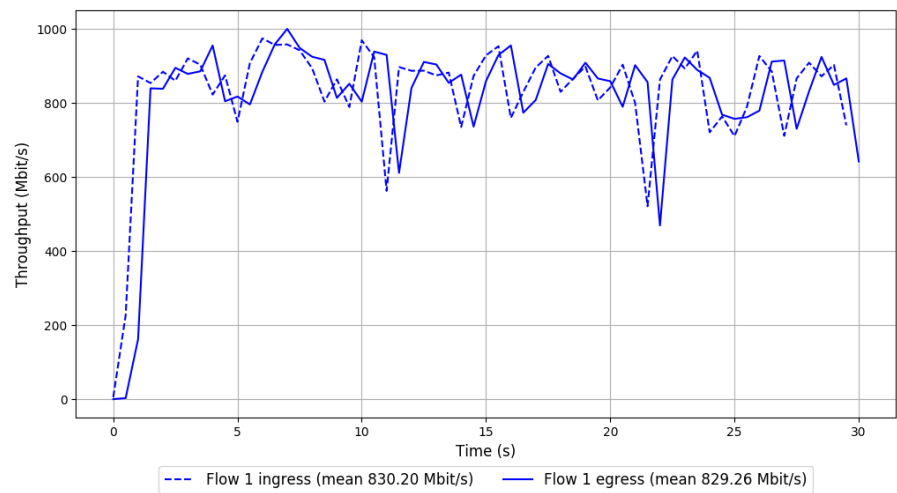


Run 5: Statistics of FillP-Sheep

Start at: 2019-08-27 18:10:41
End at: 2019-08-27 18:11:11
Local clock offset: 0.645 ms
Remote clock offset: -0.149 ms

Below is generated by plot.py at 2019-08-27 19:21:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 829.26 Mbit/s
95th percentile per-packet one-way delay: 93.295 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 829.26 Mbit/s
95th percentile per-packet one-way delay: 93.295 ms
Loss rate: 0.51%

Run 5: Report of FillP-Sheep — Data Link

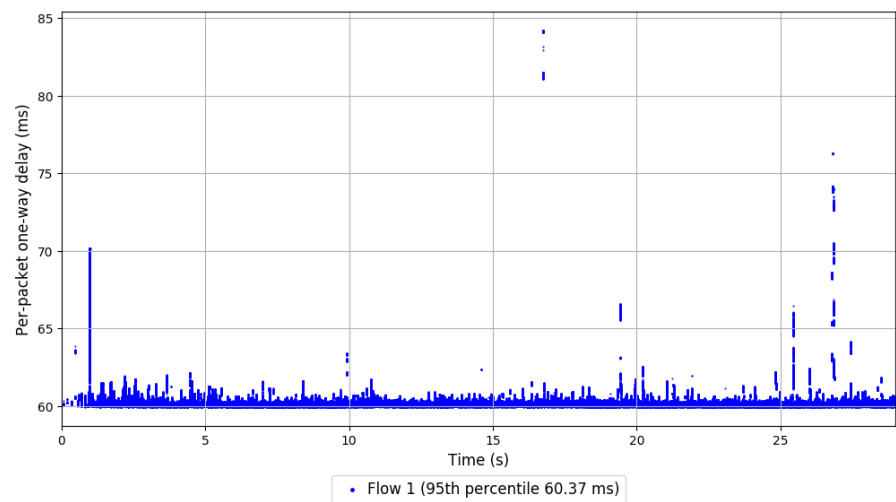
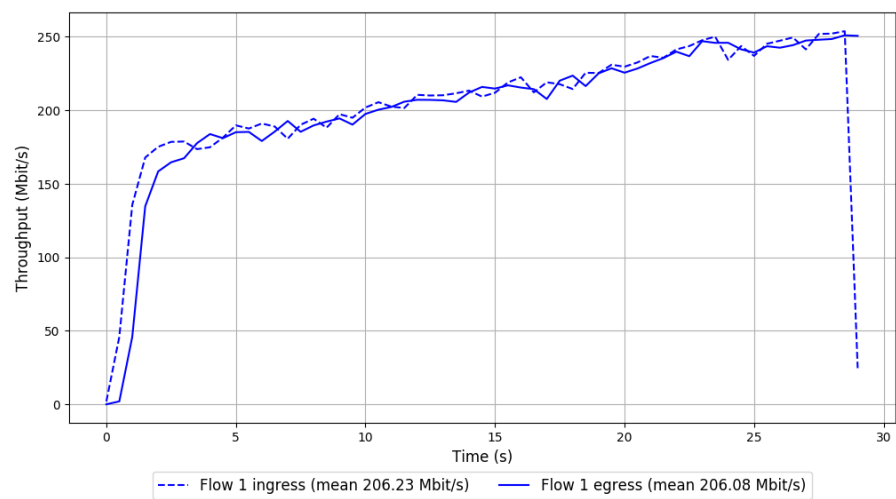


```
Run 1: Statistics of Indigo

Start at: 2019-08-27 16:03:15
End at: 2019-08-27 16:03:45
Local clock offset: -0.065 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-08-27 19:21:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.08 Mbit/s
95th percentile per-packet one-way delay: 60.374 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 206.08 Mbit/s
95th percentile per-packet one-way delay: 60.374 ms
Loss rate: 0.48%
```

Run 1: Report of Indigo — Data Link

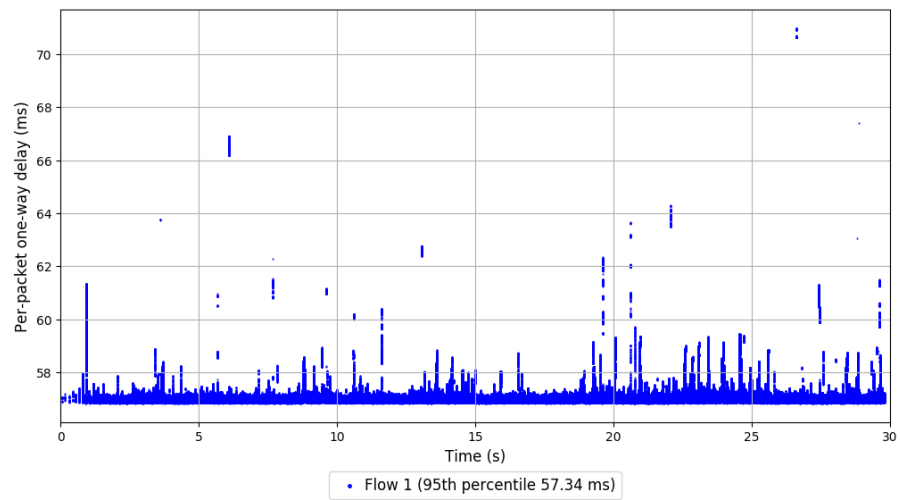
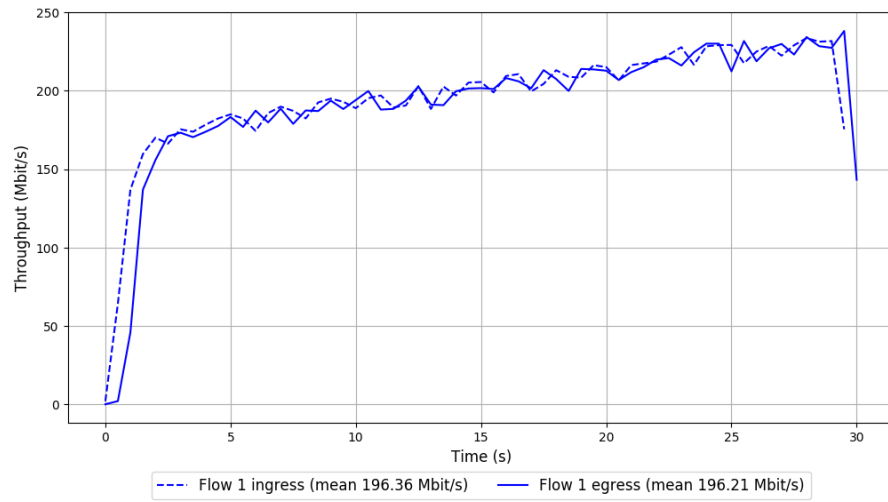


Run 2: Statistics of Indigo

Start at: 2019-08-27 16:37:22
End at: 2019-08-27 16:37:52
Local clock offset: -0.184 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2019-08-27 19:21:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 196.21 Mbit/s
95th percentile per-packet one-way delay: 57.340 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 196.21 Mbit/s
95th percentile per-packet one-way delay: 57.340 ms
Loss rate: 0.47%

Run 2: Report of Indigo — Data Link

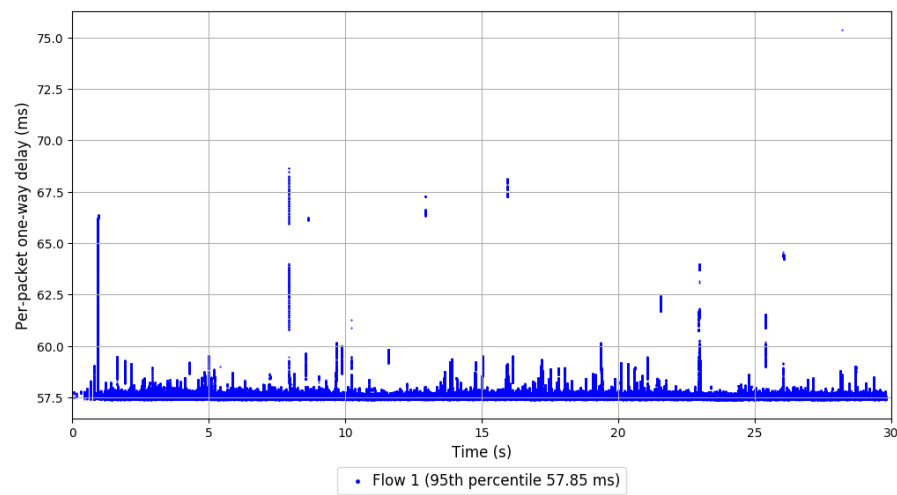
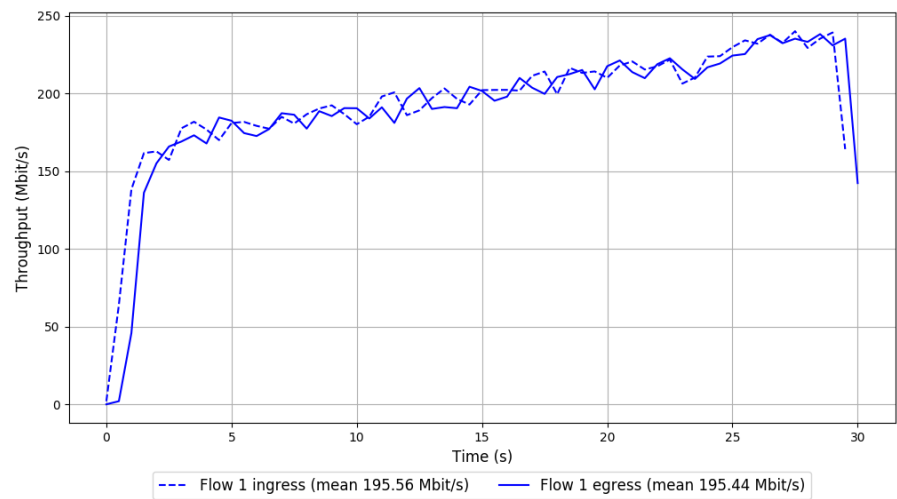


Run 3: Statistics of Indigo

Start at: 2019-08-27 17:11:31
End at: 2019-08-27 17:12:01
Local clock offset: 0.694 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2019-08-27 19:21:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 195.44 Mbit/s
95th percentile per-packet one-way delay: 57.847 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 195.44 Mbit/s
95th percentile per-packet one-way delay: 57.847 ms
Loss rate: 0.45%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-08-27 17:45:39

End at: 2019-08-27 17:46:09

Local clock offset: 0.508 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2019-08-27 19:21:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.81 Mbit/s

95th percentile per-packet one-way delay: 57.126 ms

Loss rate: 0.40%

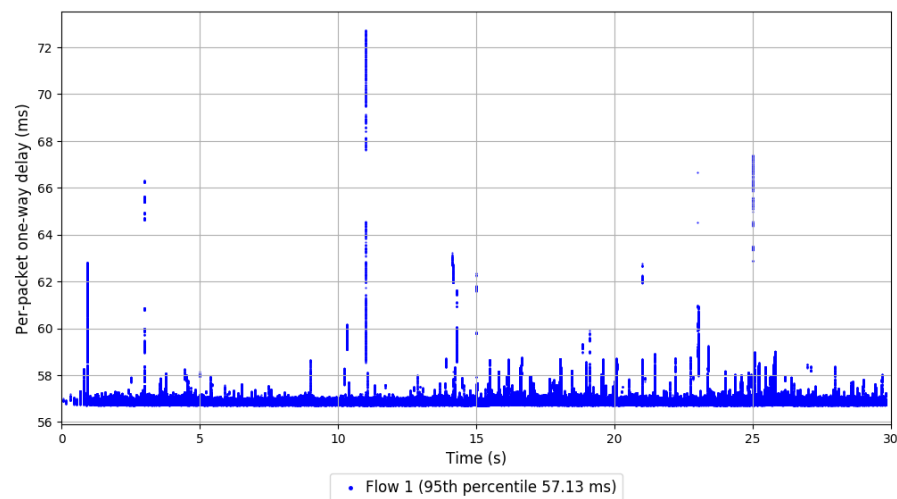
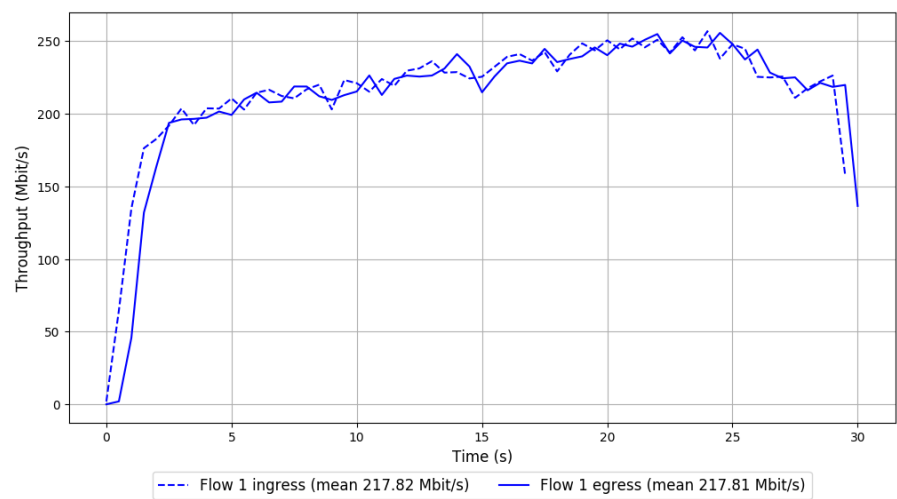
-- Flow 1:

Average throughput: 217.81 Mbit/s

95th percentile per-packet one-way delay: 57.126 ms

Loss rate: 0.40%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-08-27 18:20:03

End at: 2019-08-27 18:20:33

Local clock offset: 0.677 ms

Remote clock offset: 0.145 ms

Below is generated by plot.py at 2019-08-27 19:21:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.23 Mbit/s

95th percentile per-packet one-way delay: 58.052 ms

Loss rate: 0.41%

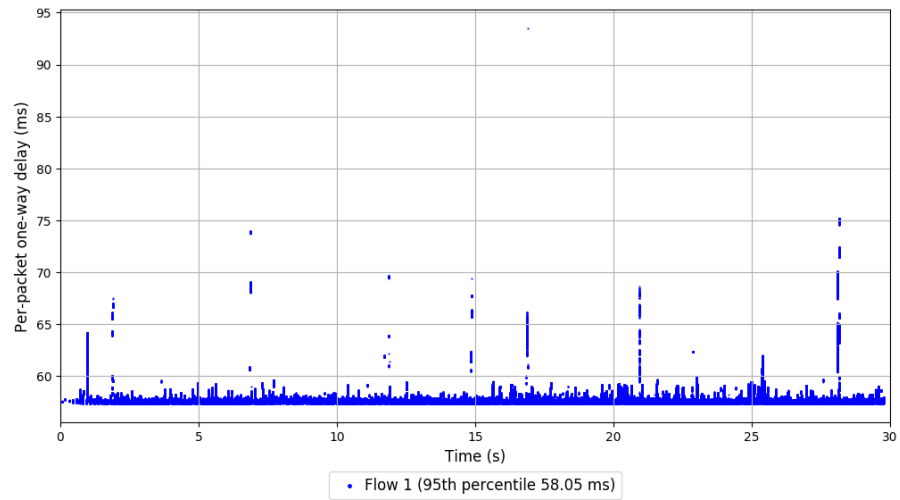
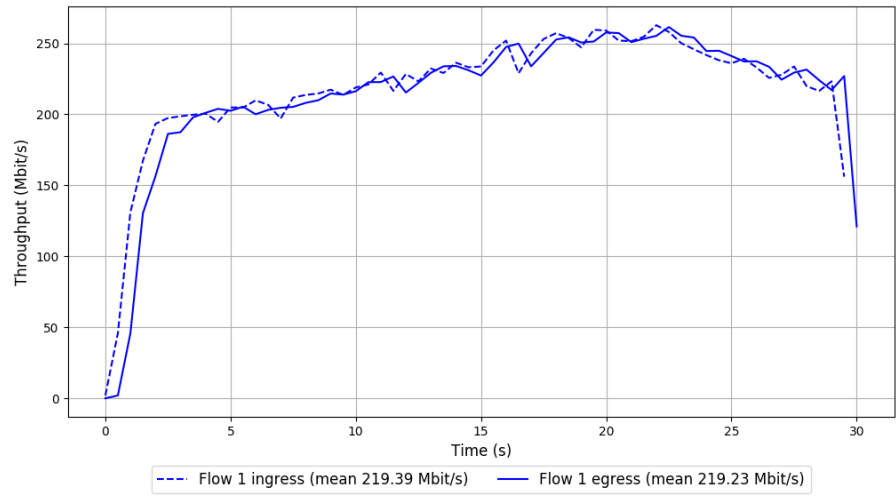
-- Flow 1:

Average throughput: 219.23 Mbit/s

95th percentile per-packet one-way delay: 58.052 ms

Loss rate: 0.41%

Run 5: Report of Indigo — Data Link

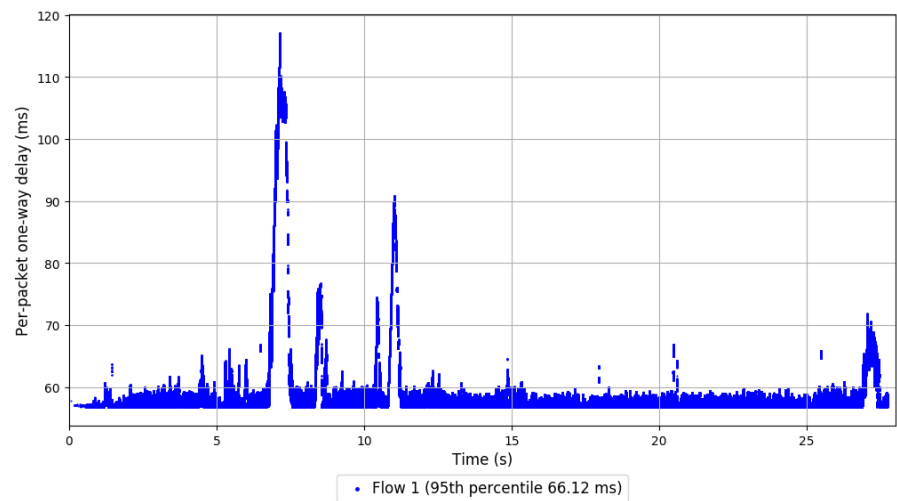
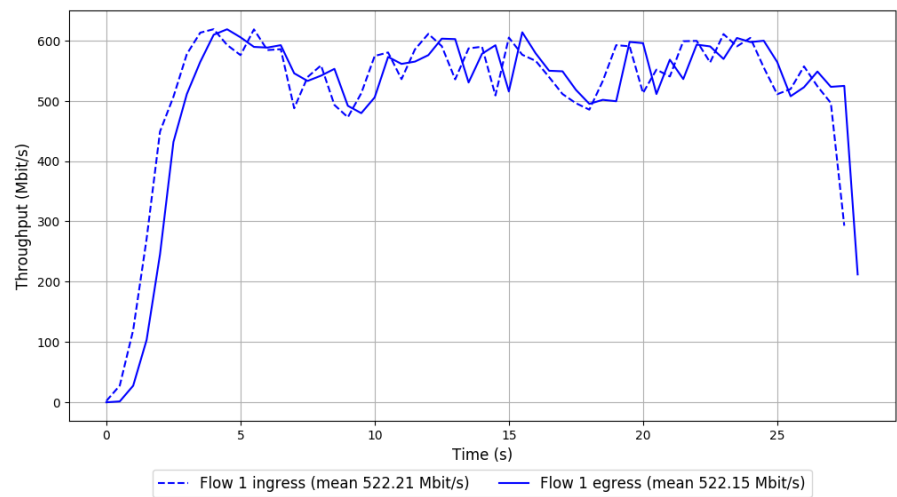


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-27 15:41:28
End at: 2019-08-27 15:41:58
Local clock offset: -0.115 ms
Remote clock offset: -0.399 ms

Below is generated by plot.py at 2019-08-27 19:21:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 522.15 Mbit/s
95th percentile per-packet one-way delay: 66.118 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 522.15 Mbit/s
95th percentile per-packet one-way delay: 66.118 ms
Loss rate: 0.42%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-27 16:15:36

End at: 2019-08-27 16:16:06

Local clock offset: -0.156 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2019-08-27 19:21:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 555.87 Mbit/s

95th percentile per-packet one-way delay: 63.581 ms

Loss rate: 0.47%

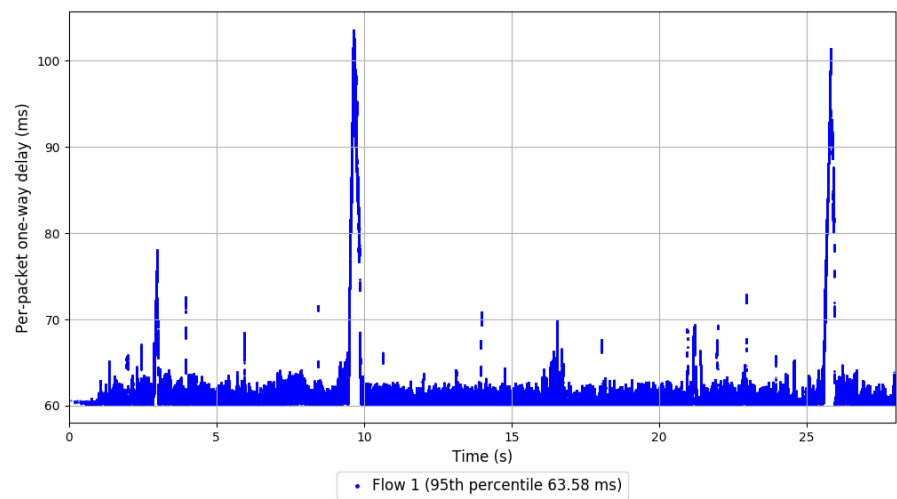
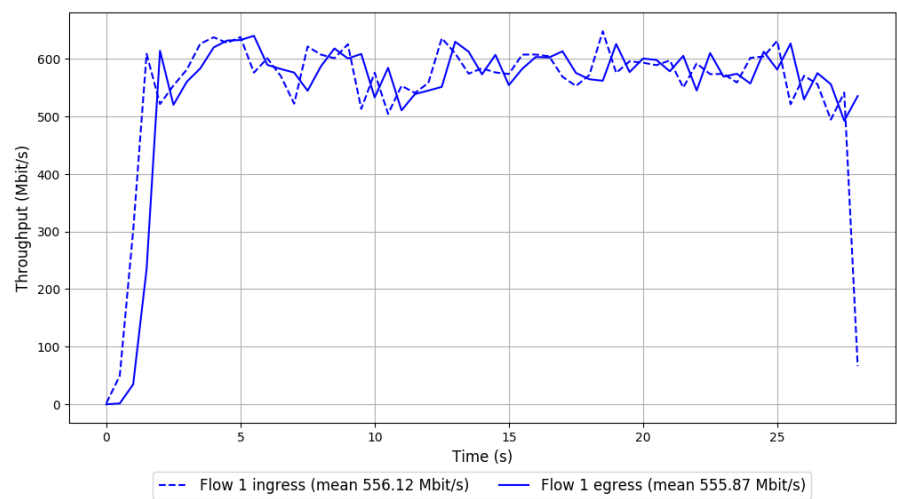
-- Flow 1:

Average throughput: 555.87 Mbit/s

95th percentile per-packet one-way delay: 63.581 ms

Loss rate: 0.47%

Run 2: Report of Indigo-MusesC3 — Data Link

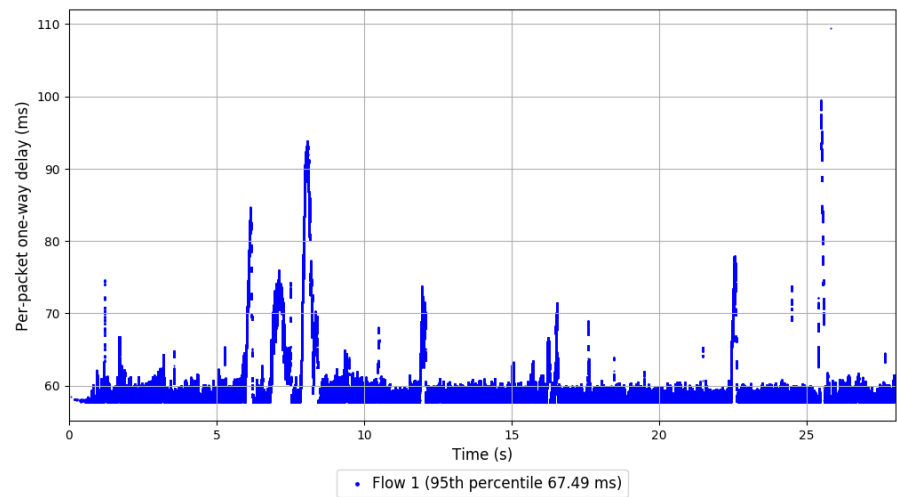
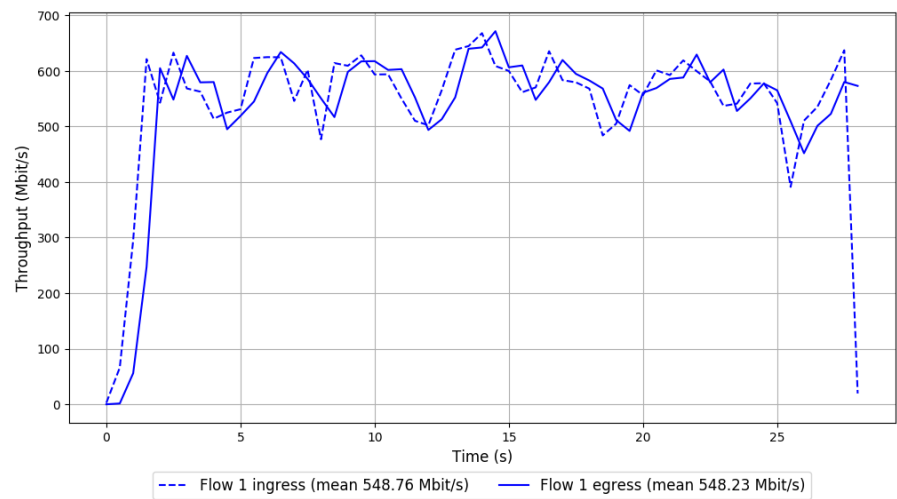


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-27 16:49:40
End at: 2019-08-27 16:50:10
Local clock offset: 0.334 ms
Remote clock offset: -0.889 ms

Below is generated by plot.py at 2019-08-27 19:21:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 548.23 Mbit/s
95th percentile per-packet one-way delay: 67.488 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 548.23 Mbit/s
95th percentile per-packet one-way delay: 67.488 ms
Loss rate: 0.52%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-27 17:23:49

End at: 2019-08-27 17:24:19

Local clock offset: 0.006 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2019-08-27 19:21:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 563.28 Mbit/s

95th percentile per-packet one-way delay: 68.104 ms

Loss rate: 0.49%

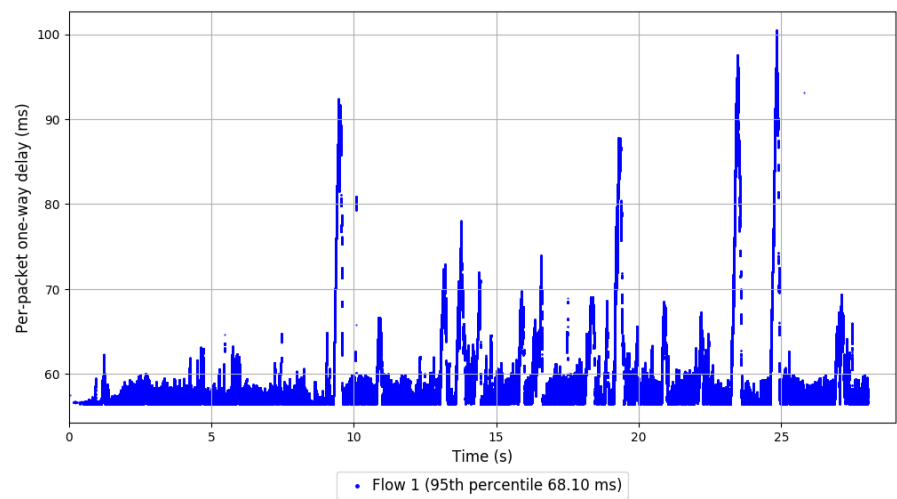
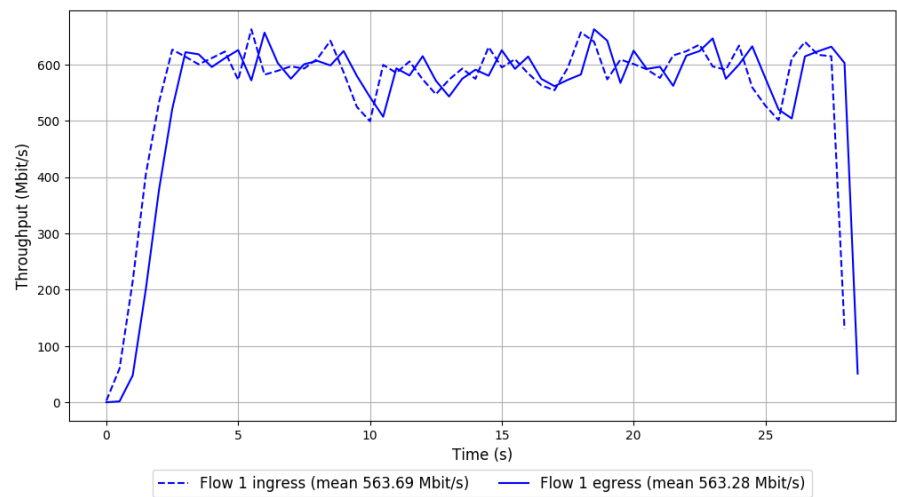
-- Flow 1:

Average throughput: 563.28 Mbit/s

95th percentile per-packet one-way delay: 68.104 ms

Loss rate: 0.49%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-08-27 17:58:02

End at: 2019-08-27 17:58:32

Local clock offset: -0.113 ms

Remote clock offset: 0.254 ms

Below is generated by plot.py at 2019-08-27 19:22:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 569.49 Mbit/s

95th percentile per-packet one-way delay: 60.877 ms

Loss rate: 0.40%

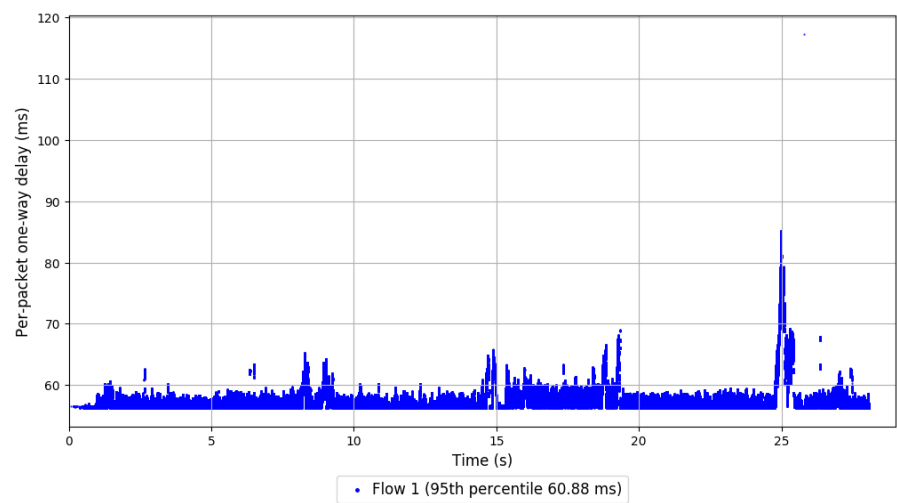
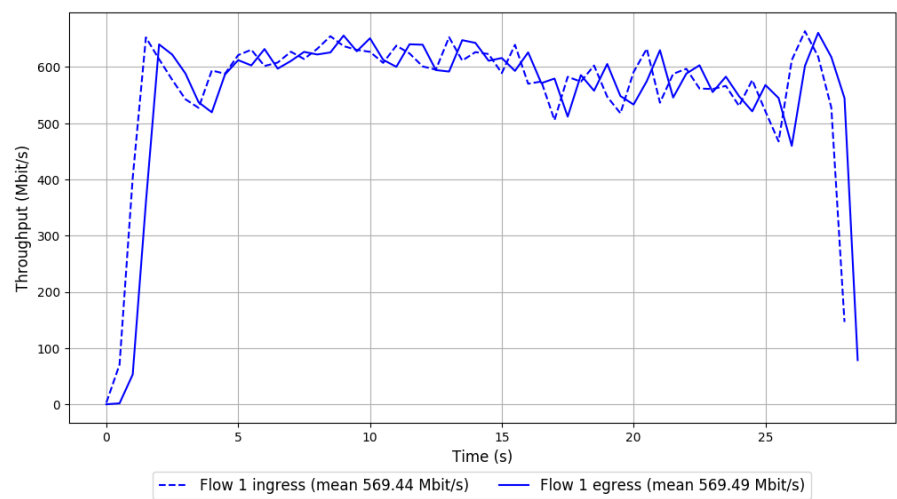
-- Flow 1:

Average throughput: 569.49 Mbit/s

95th percentile per-packet one-way delay: 60.877 ms

Loss rate: 0.40%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-27 16:08:26

End at: 2019-08-27 16:08:56

Local clock offset: 0.21 ms

Remote clock offset: -0.036 ms

Below is generated by plot.py at 2019-08-27 19:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 563.75 Mbit/s

95th percentile per-packet one-way delay: 99.577 ms

Loss rate: 0.44%

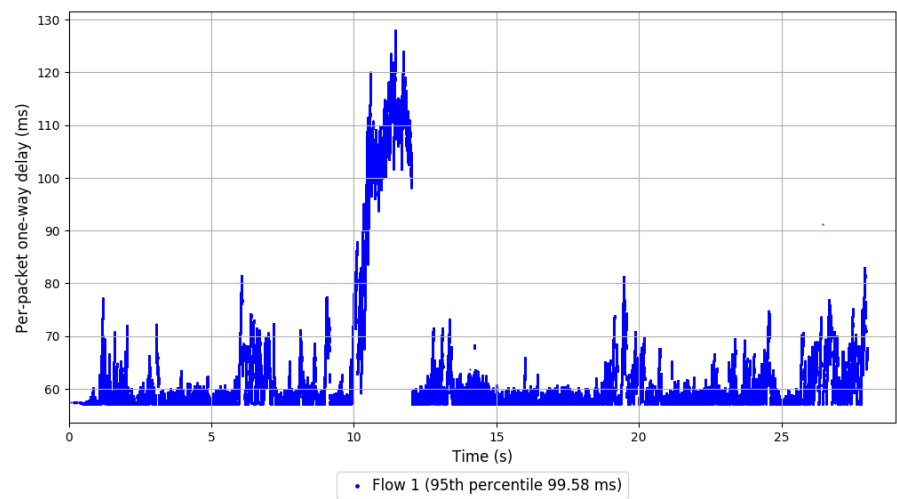
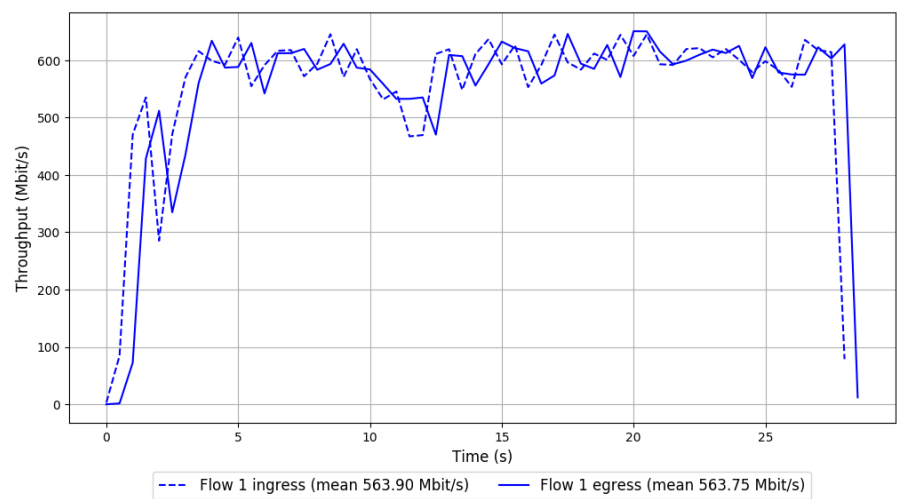
-- Flow 1:

Average throughput: 563.75 Mbit/s

95th percentile per-packet one-way delay: 99.577 ms

Loss rate: 0.44%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-27 16:42:31

End at: 2019-08-27 16:43:01

Local clock offset: 0.097 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2019-08-27 19:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 595.63 Mbit/s

95th percentile per-packet one-way delay: 84.537 ms

Loss rate: 0.49%

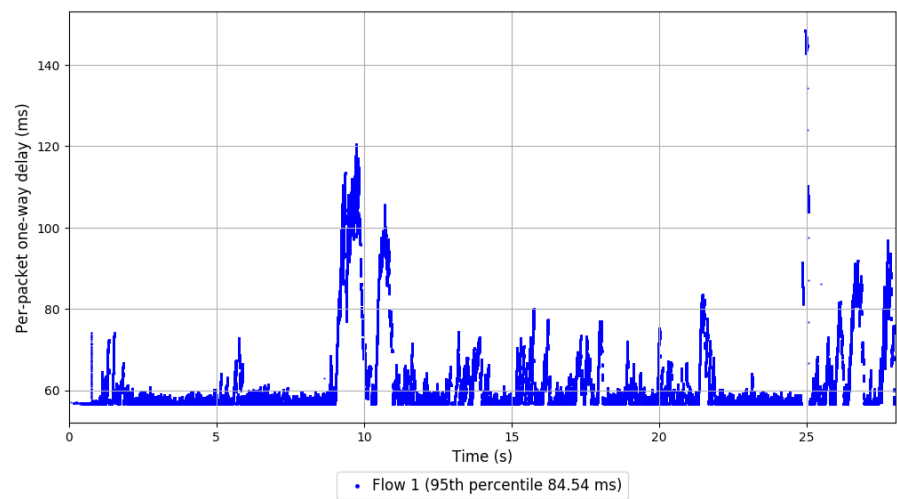
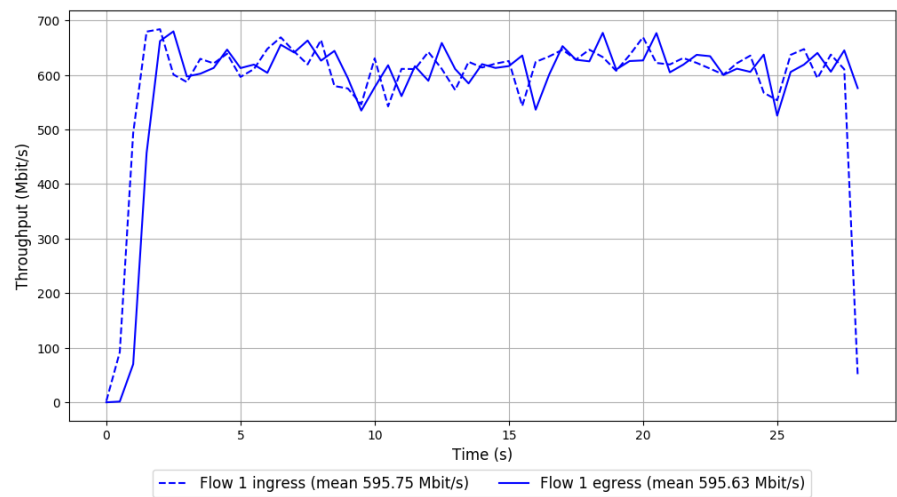
-- Flow 1:

Average throughput: 595.63 Mbit/s

95th percentile per-packet one-way delay: 84.537 ms

Loss rate: 0.49%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-27 17:16:41

End at: 2019-08-27 17:17:11

Local clock offset: -0.14 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2019-08-27 19:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 581.82 Mbit/s

95th percentile per-packet one-way delay: 98.069 ms

Loss rate: 0.49%

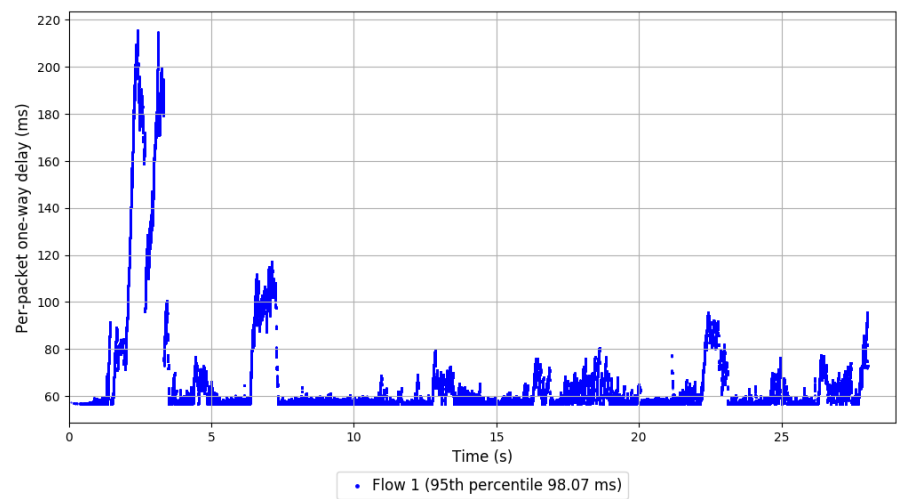
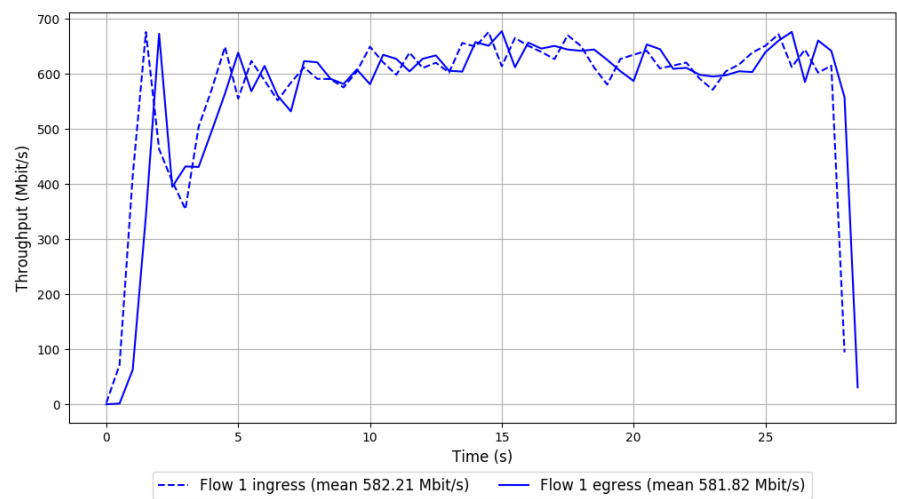
-- Flow 1:

Average throughput: 581.82 Mbit/s

95th percentile per-packet one-way delay: 98.069 ms

Loss rate: 0.49%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-27 17:50:51

End at: 2019-08-27 17:51:21

Local clock offset: 0.251 ms

Remote clock offset: 0.133 ms

Below is generated by plot.py at 2019-08-27 19:29:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 579.99 Mbit/s

95th percentile per-packet one-way delay: 91.527 ms

Loss rate: 0.47%

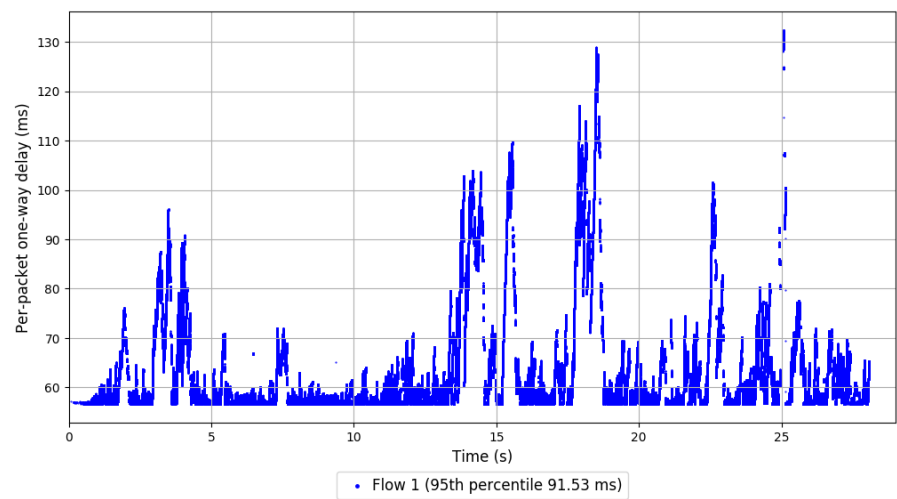
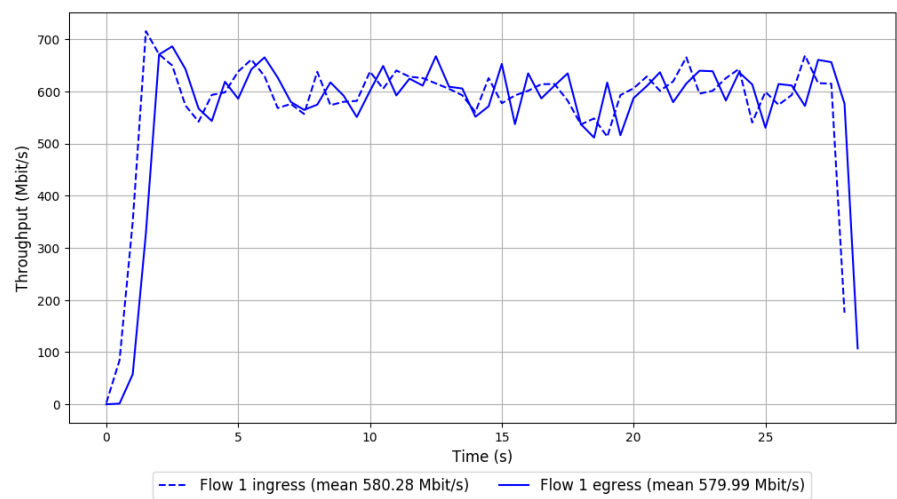
-- Flow 1:

Average throughput: 579.99 Mbit/s

95th percentile per-packet one-way delay: 91.527 ms

Loss rate: 0.47%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-08-27 18:25:17

End at: 2019-08-27 18:25:47

Local clock offset: -0.018 ms

Remote clock offset: 0.191 ms

Below is generated by plot.py at 2019-08-27 19:29:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 588.58 Mbit/s

95th percentile per-packet one-way delay: 71.092 ms

Loss rate: 0.53%

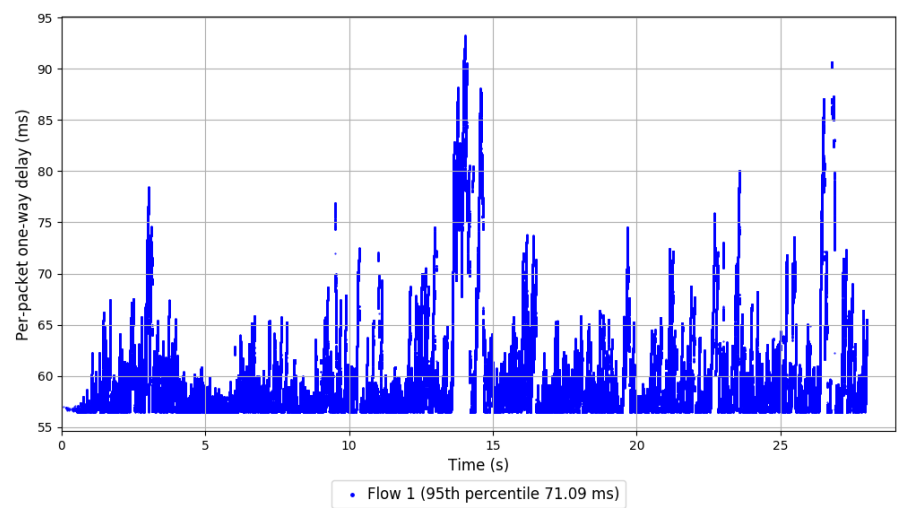
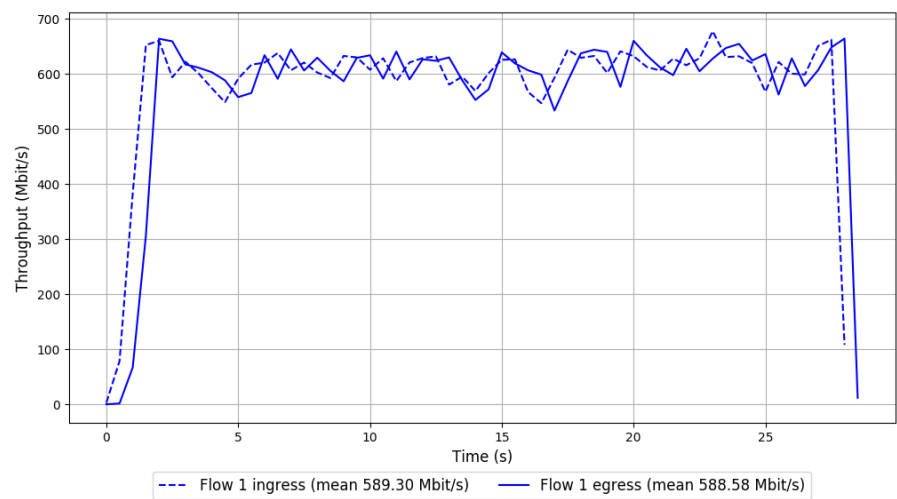
-- Flow 1:

Average throughput: 588.58 Mbit/s

95th percentile per-packet one-way delay: 71.092 ms

Loss rate: 0.53%

Run 5: Report of Indigo-MusesC5 — Data Link

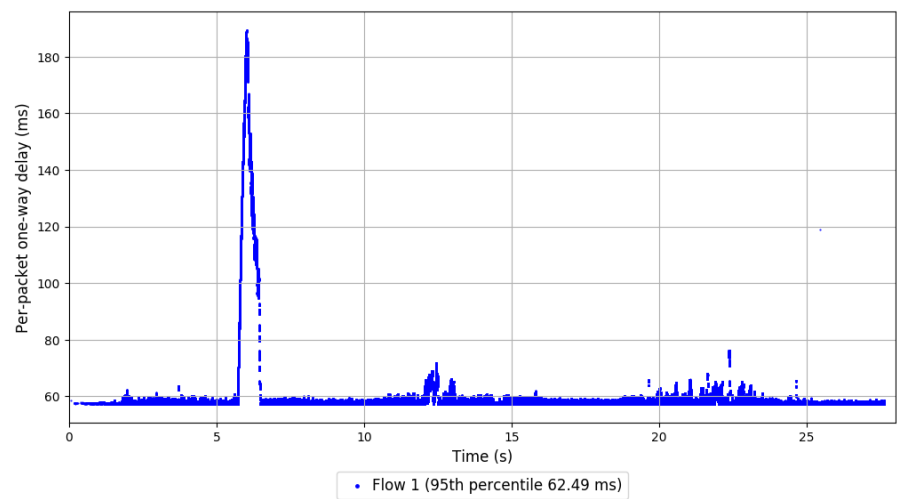
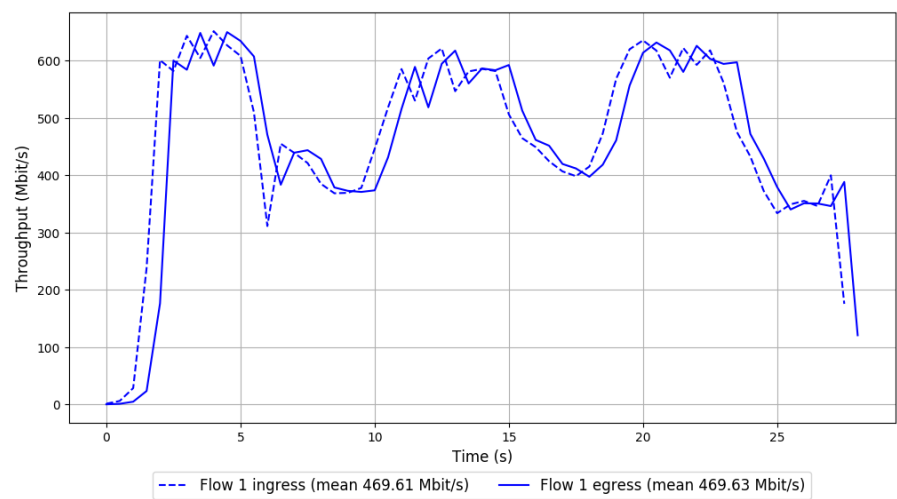


Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-27 15:48:20
End at: 2019-08-27 15:48:50
Local clock offset: -0.046 ms
Remote clock offset: -0.429 ms

Below is generated by plot.py at 2019-08-27 19:29:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 469.63 Mbit/s
95th percentile per-packet one-way delay: 62.491 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 469.63 Mbit/s
95th percentile per-packet one-way delay: 62.491 ms
Loss rate: 0.42%

Run 1: Report of Indigo-MusesD — Data Link

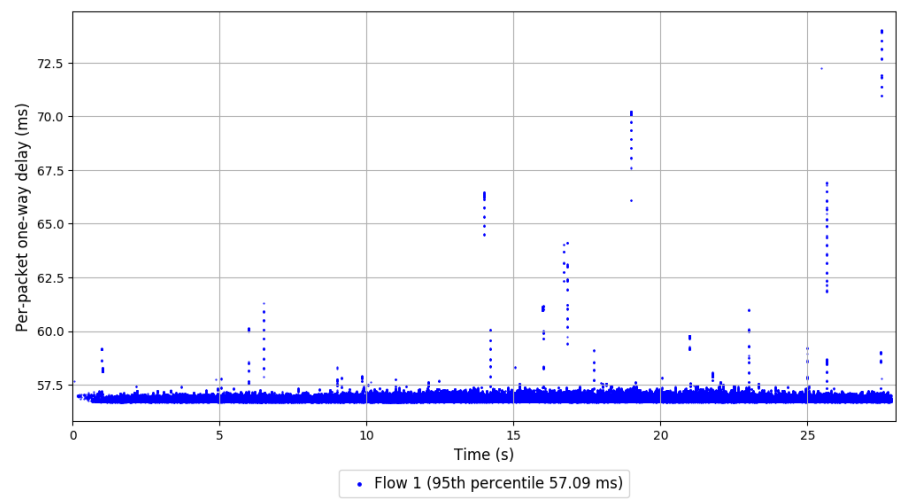
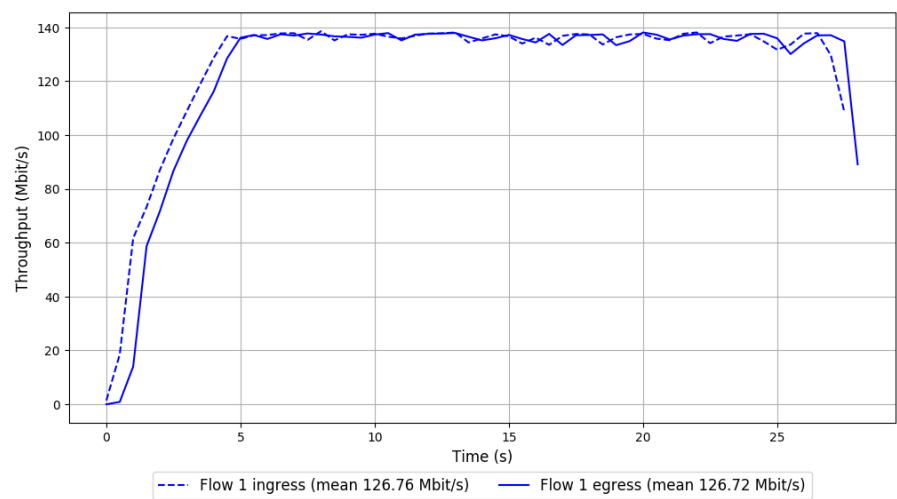


Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-27 16:22:31
End at: 2019-08-27 16:23:01
Local clock offset: -0.097 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2019-08-27 19:29:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 126.72 Mbit/s
95th percentile per-packet one-way delay: 57.092 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 126.72 Mbit/s
95th percentile per-packet one-way delay: 57.092 ms
Loss rate: 0.44%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-27 16:56:29

End at: 2019-08-27 16:56:59

Local clock offset: 0.43 ms

Remote clock offset: -0.015 ms

Below is generated by plot.py at 2019-08-27 19:29:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.31 Mbit/s

95th percentile per-packet one-way delay: 68.138 ms

Loss rate: 0.40%

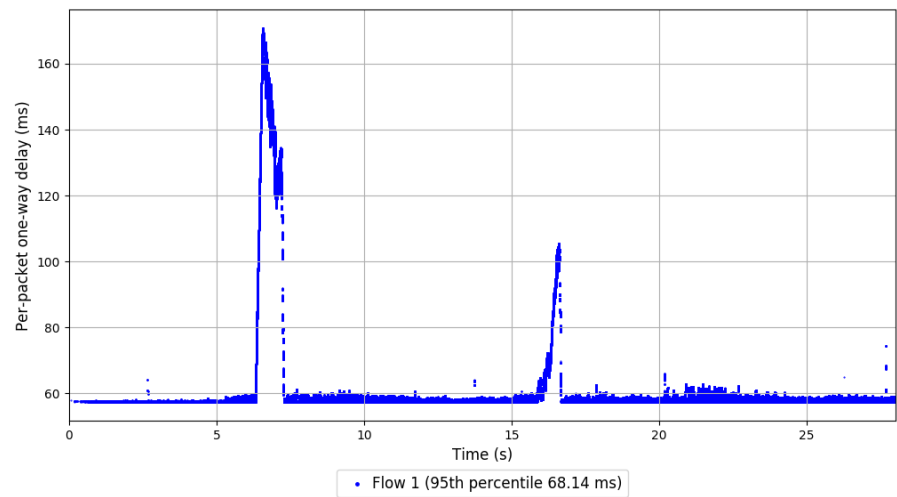
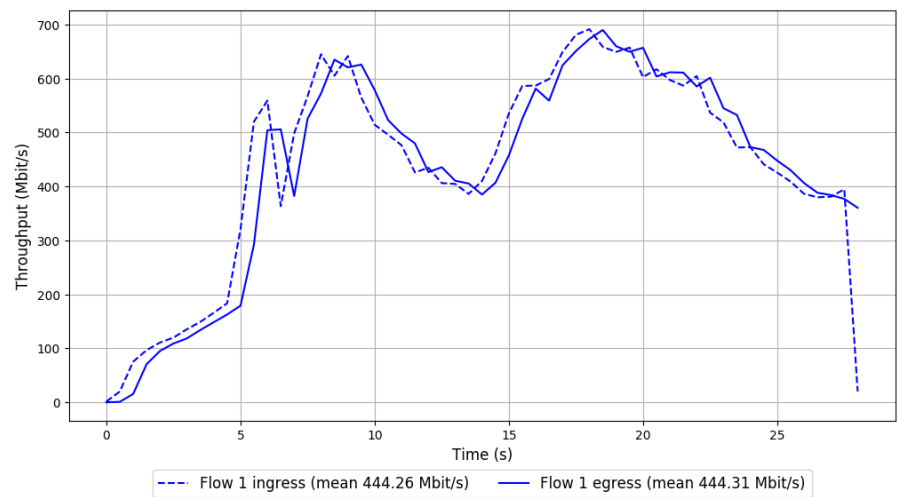
-- Flow 1:

Average throughput: 444.31 Mbit/s

95th percentile per-packet one-way delay: 68.138 ms

Loss rate: 0.40%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-08-27 17:30:48

End at: 2019-08-27 17:31:18

Local clock offset: 0.503 ms

Remote clock offset: -0.299 ms

Below is generated by plot.py at 2019-08-27 19:30:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 500.78 Mbit/s

95th percentile per-packet one-way delay: 60.432 ms

Loss rate: 0.35%

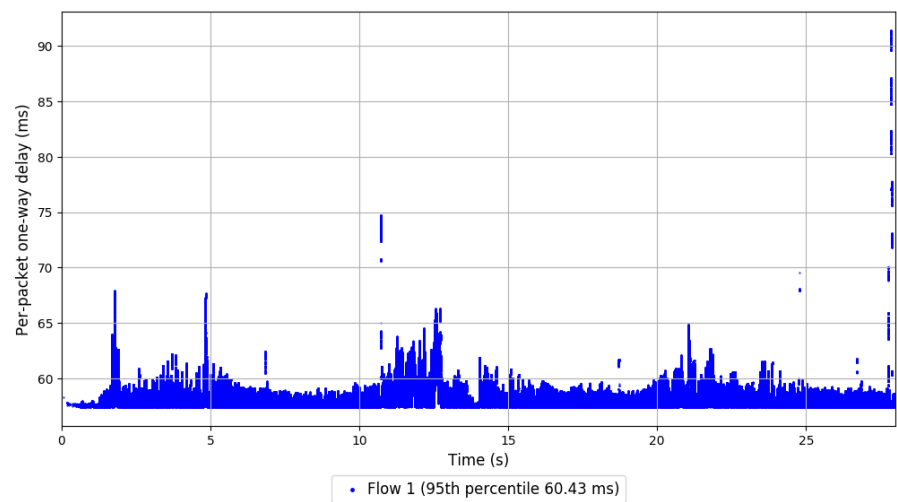
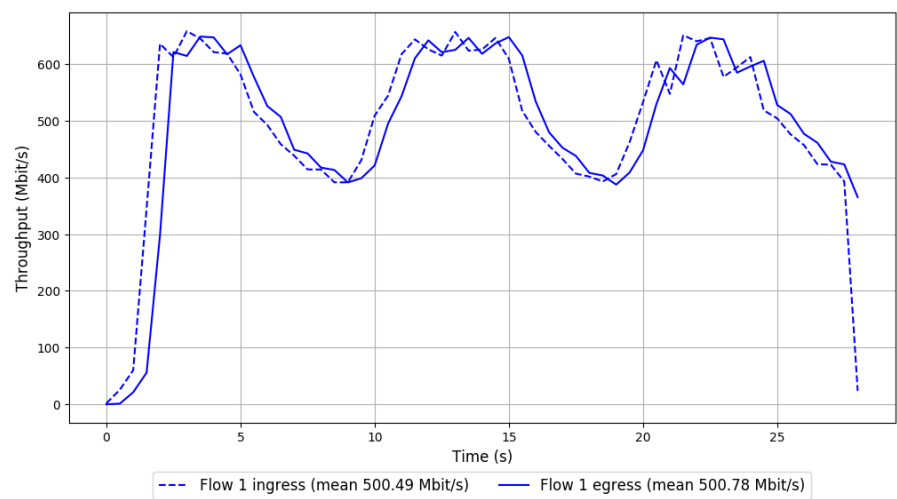
-- Flow 1:

Average throughput: 500.78 Mbit/s

95th percentile per-packet one-way delay: 60.432 ms

Loss rate: 0.35%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-08-27 18:04:54

End at: 2019-08-27 18:05:24

Local clock offset: 0.312 ms

Remote clock offset: -0.078 ms

Below is generated by plot.py at 2019-08-27 19:30:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.74 Mbit/s

95th percentile per-packet one-way delay: 73.151 ms

Loss rate: 0.40%

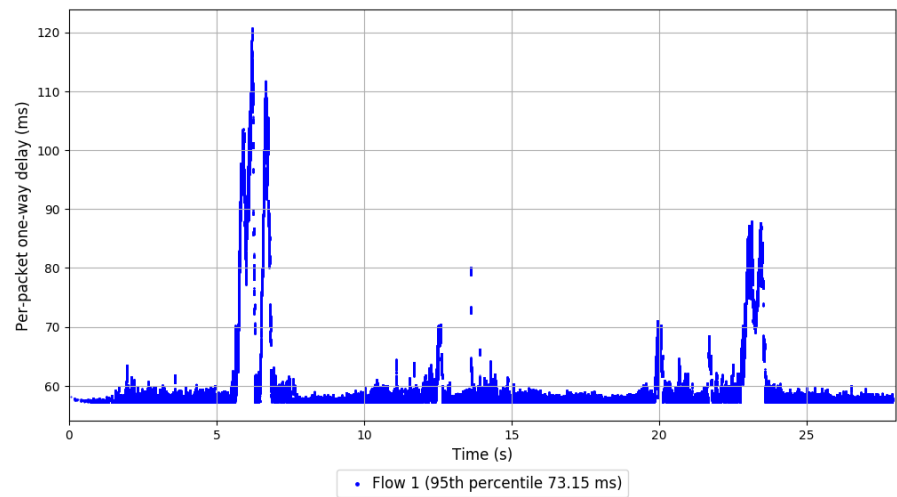
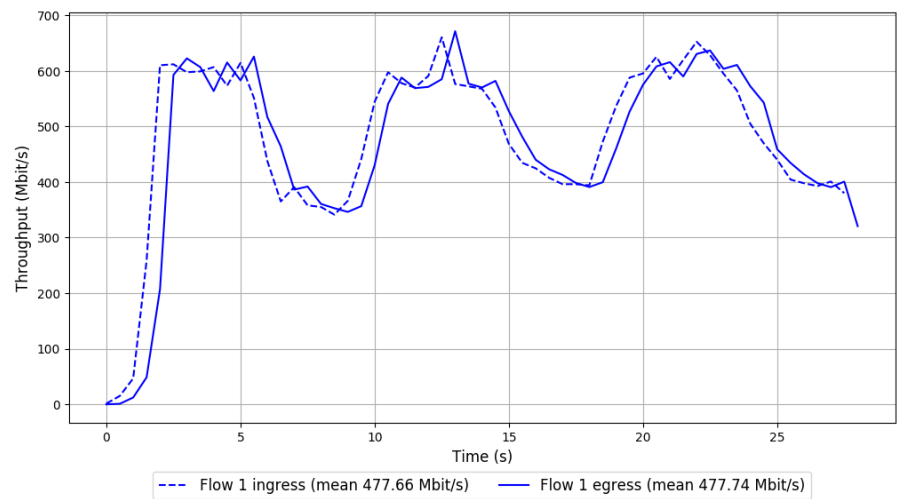
-- Flow 1:

Average throughput: 477.74 Mbit/s

95th percentile per-packet one-way delay: 73.151 ms

Loss rate: 0.40%

Run 5: Report of Indigo-MusesD — Data Link

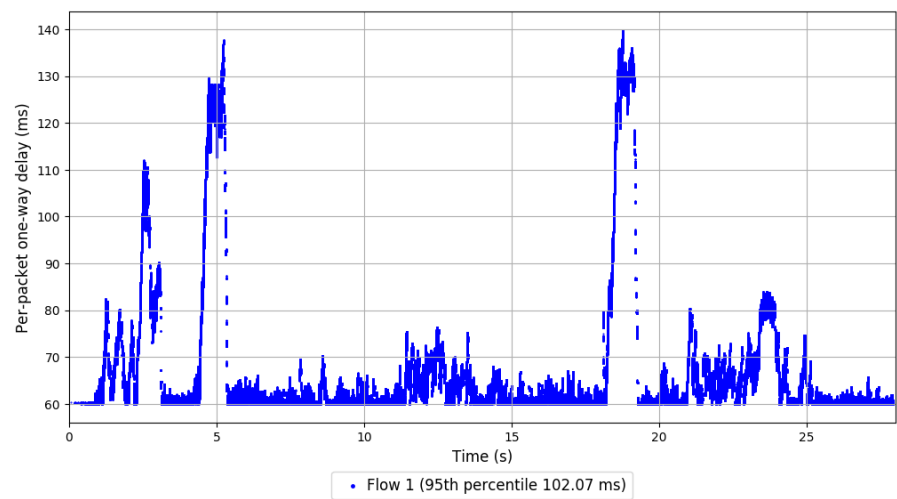
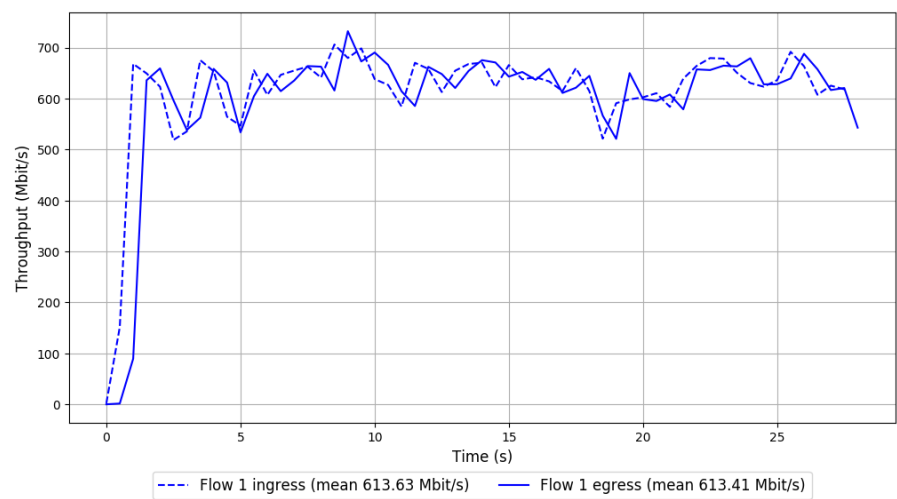


Run 1: Statistics of Indigo-MusesT

Start at: 2019-08-27 15:52:29
End at: 2019-08-27 15:52:59
Local clock offset: -0.231 ms
Remote clock offset: -0.258 ms

Below is generated by plot.py at 2019-08-27 19:34:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 613.41 Mbit/s
95th percentile per-packet one-way delay: 102.066 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 613.41 Mbit/s
95th percentile per-packet one-way delay: 102.066 ms
Loss rate: 0.46%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-27 16:26:30

End at: 2019-08-27 16:27:00

Local clock offset: 0.51 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2019-08-27 19:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 606.01 Mbit/s

95th percentile per-packet one-way delay: 113.079 ms

Loss rate: 0.47%

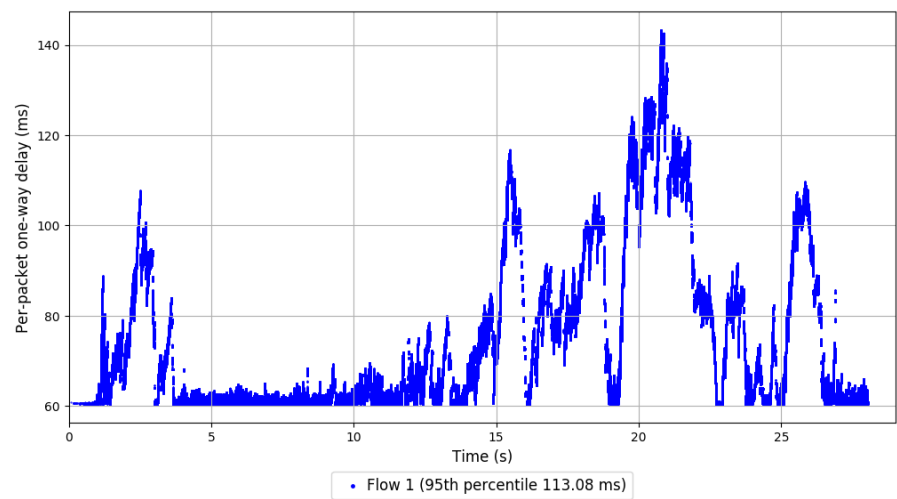
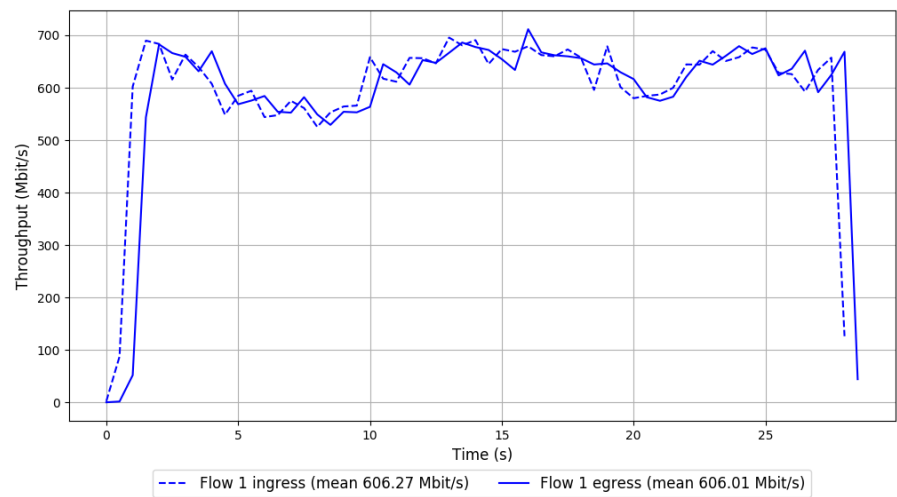
-- Flow 1:

Average throughput: 606.01 Mbit/s

95th percentile per-packet one-way delay: 113.079 ms

Loss rate: 0.47%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-27 17:00:36

End at: 2019-08-27 17:01:06

Local clock offset: 0.544 ms

Remote clock offset: -0.016 ms

Below is generated by plot.py at 2019-08-27 19:35:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 617.26 Mbit/s

95th percentile per-packet one-way delay: 88.197 ms

Loss rate: 0.43%

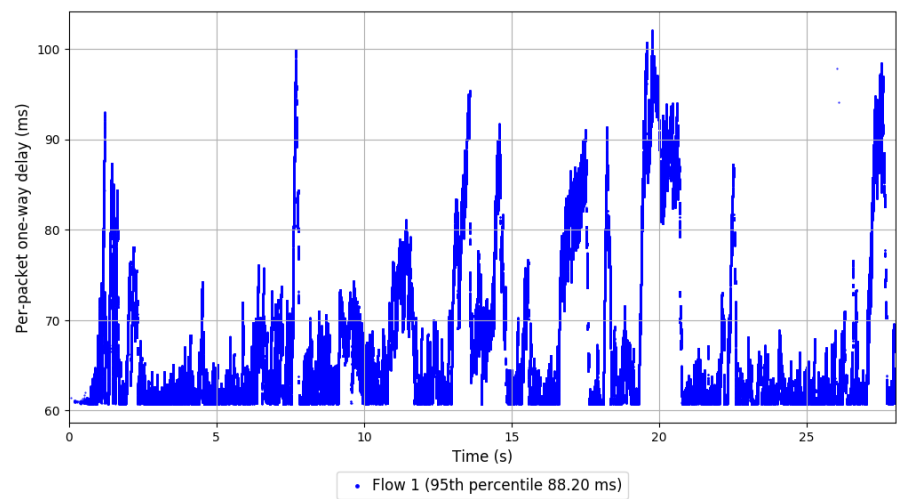
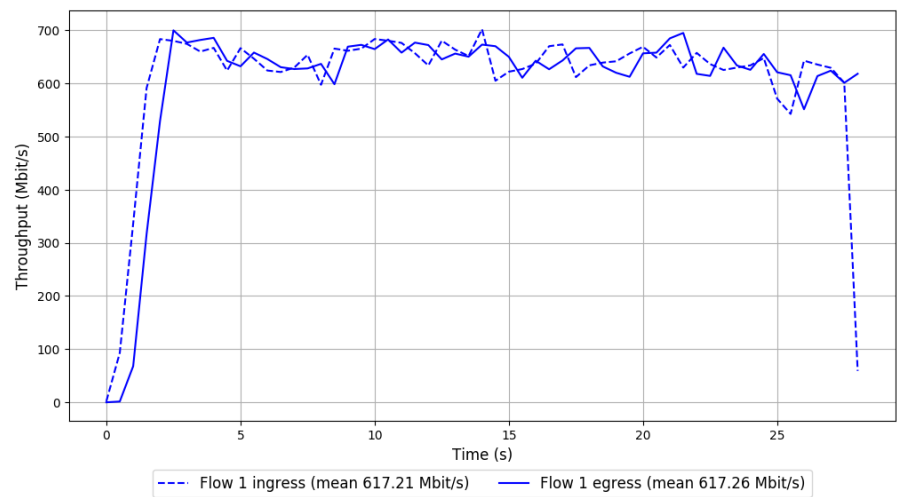
-- Flow 1:

Average throughput: 617.26 Mbit/s

95th percentile per-packet one-way delay: 88.197 ms

Loss rate: 0.43%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-08-27 17:35:01

End at: 2019-08-27 17:35:31

Local clock offset: 0.286 ms

Remote clock offset: 0.158 ms

Below is generated by plot.py at 2019-08-27 19:36:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 599.29 Mbit/s

95th percentile per-packet one-way delay: 104.491 ms

Loss rate: 0.49%

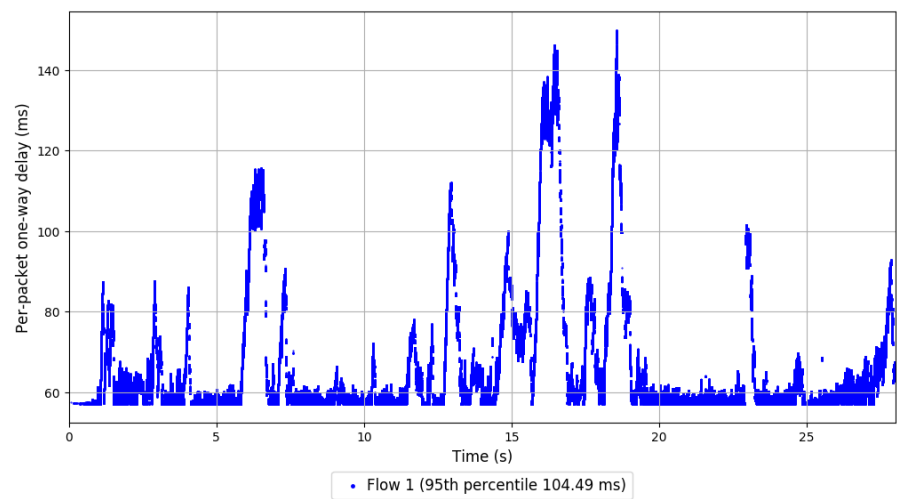
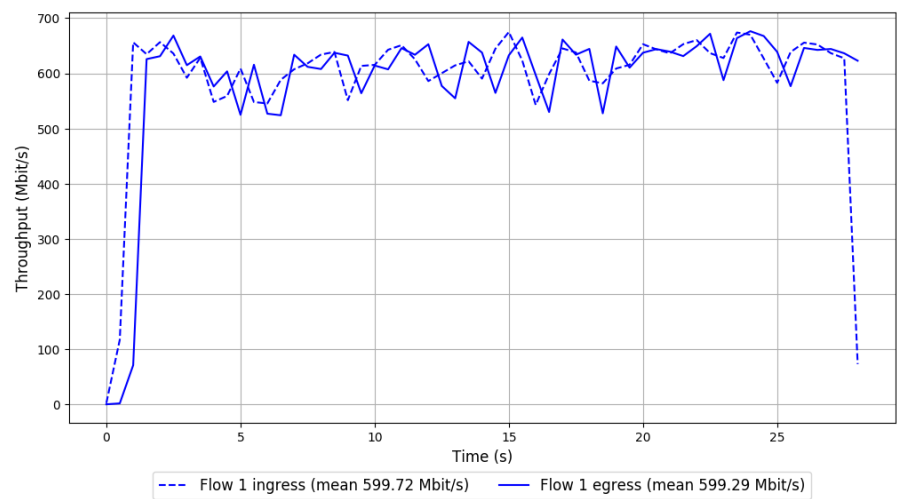
-- Flow 1:

Average throughput: 599.29 Mbit/s

95th percentile per-packet one-way delay: 104.491 ms

Loss rate: 0.49%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-08-27 18:09:08

End at: 2019-08-27 18:09:38

Local clock offset: 0.294 ms

Remote clock offset: -0.614 ms

Below is generated by plot.py at 2019-08-27 19:37:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 605.14 Mbit/s

95th percentile per-packet one-way delay: 119.077 ms

Loss rate: 0.43%

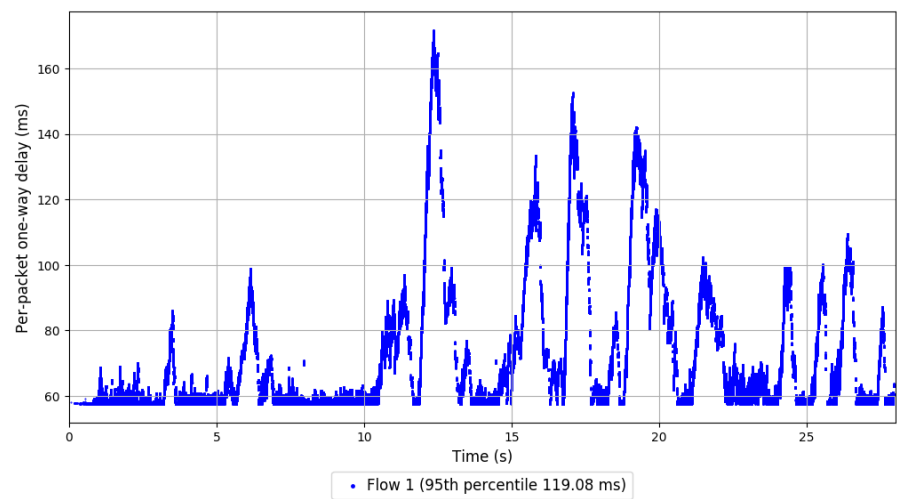
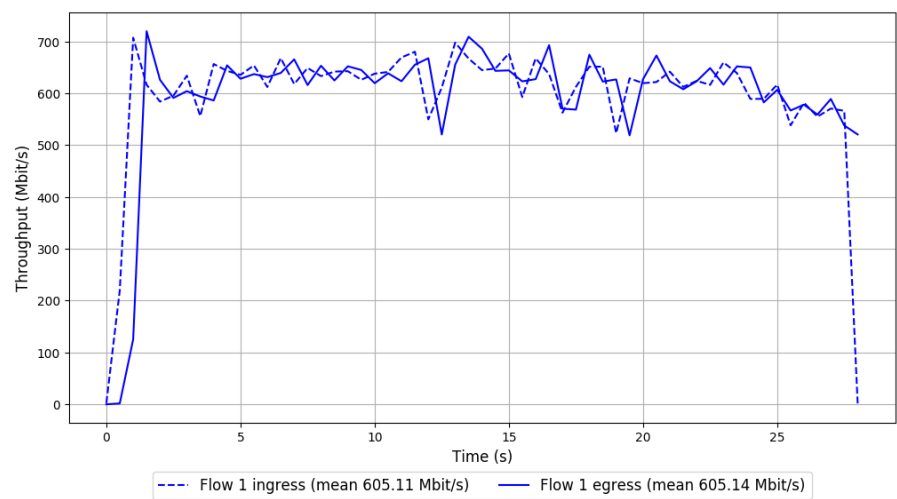
-- Flow 1:

Average throughput: 605.14 Mbit/s

95th percentile per-packet one-way delay: 119.077 ms

Loss rate: 0.43%

Run 5: Report of Indigo-MusesT — Data Link

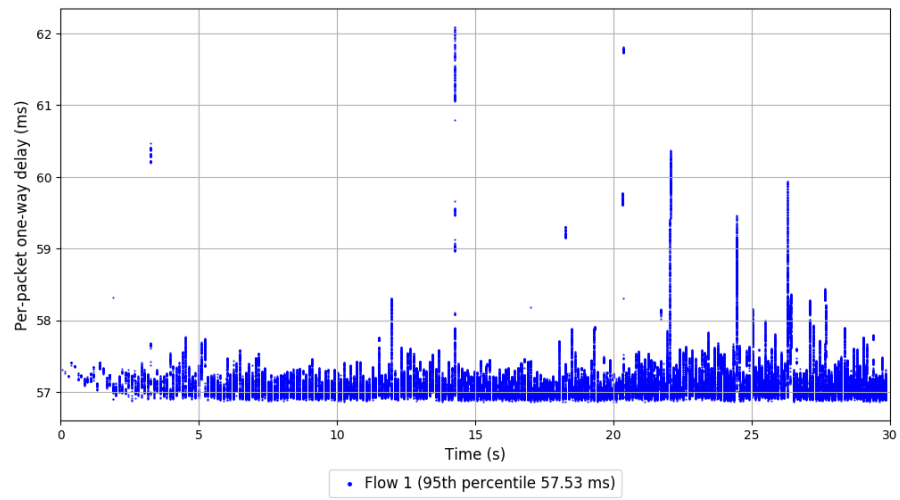
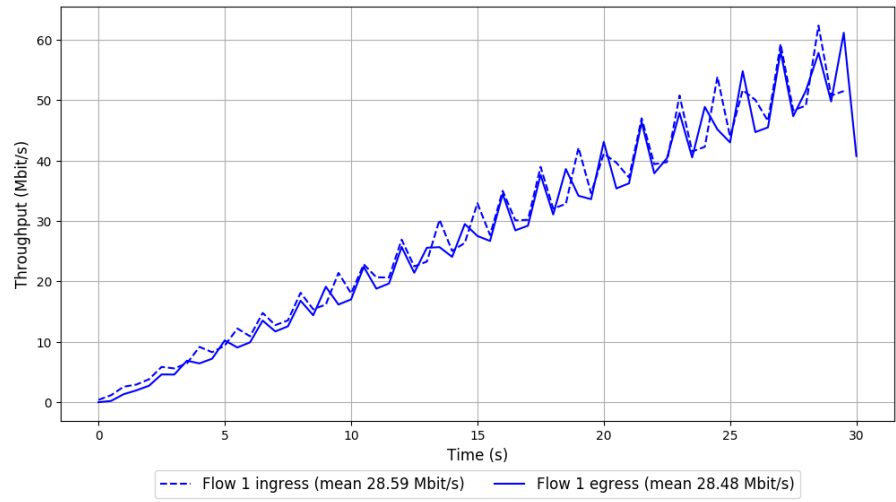


Run 1: Statistics of LEDBAT

Start at: 2019-08-27 16:07:16
End at: 2019-08-27 16:07:46
Local clock offset: 0.193 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2019-08-27 19:37:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.48 Mbit/s
95th percentile per-packet one-way delay: 57.531 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 28.48 Mbit/s
95th percentile per-packet one-way delay: 57.531 ms
Loss rate: 0.76%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-08-27 16:41:21

End at: 2019-08-27 16:41:51

Local clock offset: 0.338 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2019-08-27 19:37:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.30 Mbit/s

95th percentile per-packet one-way delay: 57.685 ms

Loss rate: 0.64%

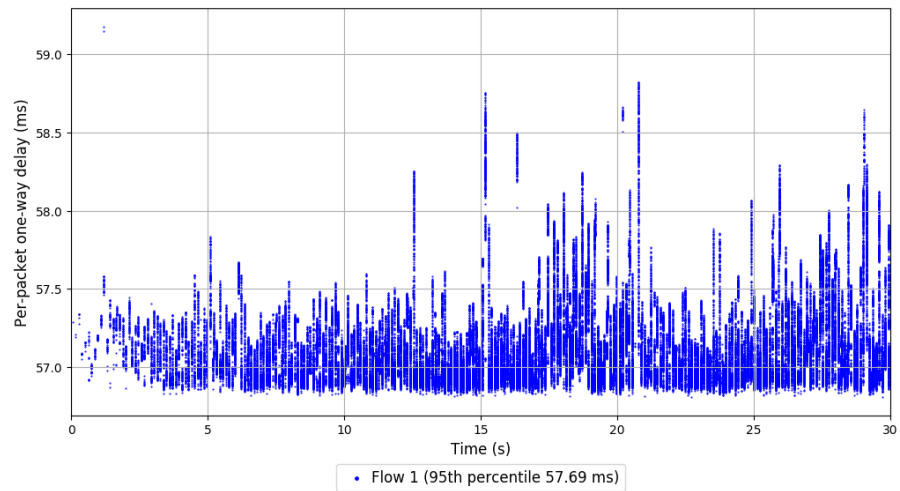
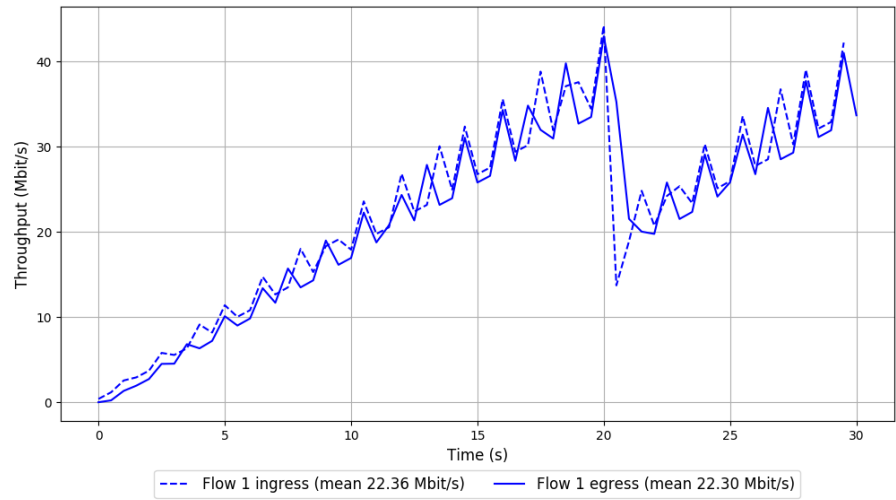
-- Flow 1:

Average throughput: 22.30 Mbit/s

95th percentile per-packet one-way delay: 57.685 ms

Loss rate: 0.64%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-08-27 17:15:31

End at: 2019-08-27 17:16:01

Local clock offset: 0.324 ms

Remote clock offset: 0.122 ms

Below is generated by plot.py at 2019-08-27 19:37:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.65 Mbit/s

95th percentile per-packet one-way delay: 57.749 ms

Loss rate: 0.78%

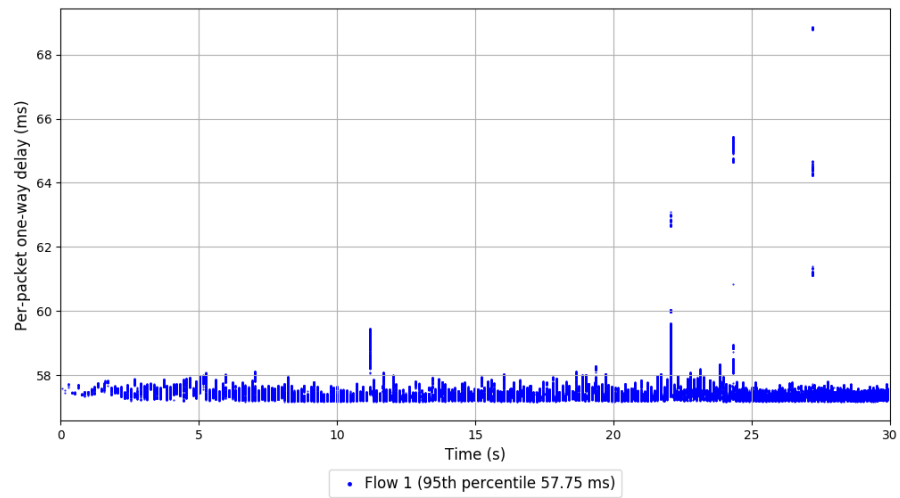
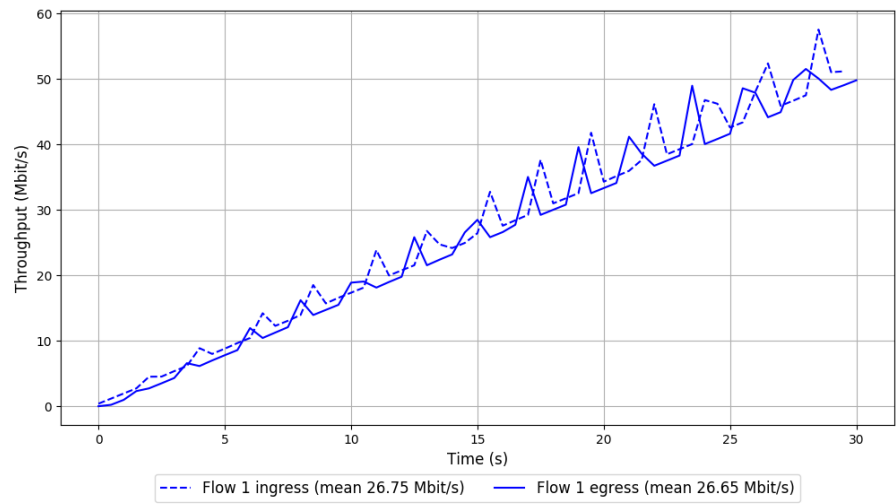
-- Flow 1:

Average throughput: 26.65 Mbit/s

95th percentile per-packet one-way delay: 57.749 ms

Loss rate: 0.78%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-08-27 17:49:42

End at: 2019-08-27 17:50:12

Local clock offset: 0.294 ms

Remote clock offset: 0.136 ms

Below is generated by plot.py at 2019-08-27 19:37:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.64 Mbit/s

95th percentile per-packet one-way delay: 57.460 ms

Loss rate: 0.34%

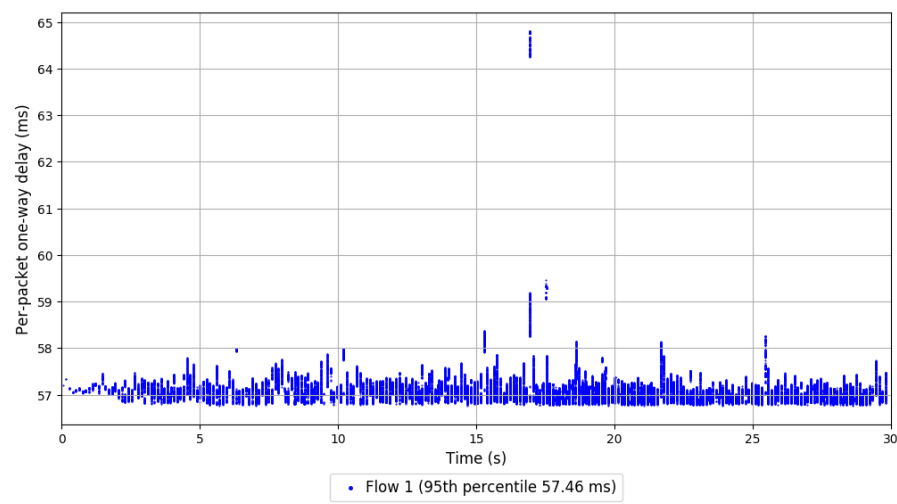
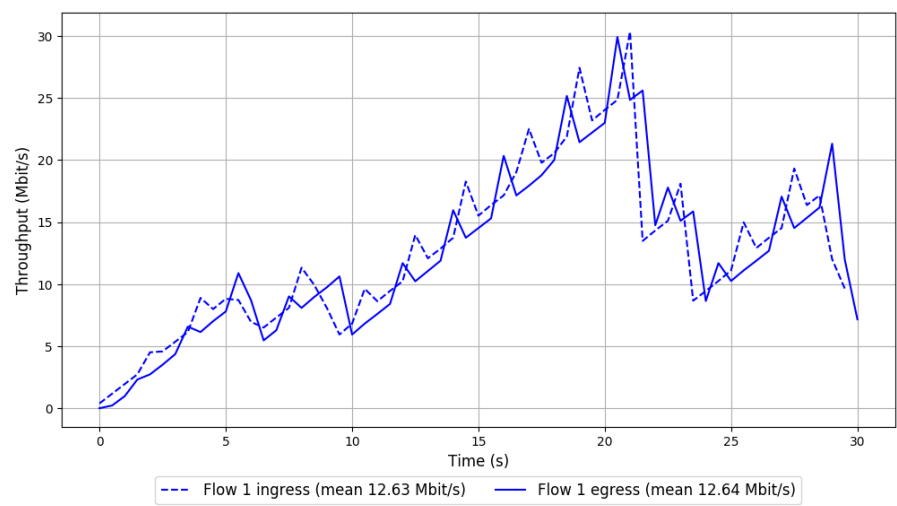
-- Flow 1:

Average throughput: 12.64 Mbit/s

95th percentile per-packet one-way delay: 57.460 ms

Loss rate: 0.34%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-08-27 18:24:06

End at: 2019-08-27 18:24:36

Local clock offset: 0.567 ms

Remote clock offset: 0.183 ms

Below is generated by plot.py at 2019-08-27 19:37:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.22 Mbit/s

95th percentile per-packet one-way delay: 57.971 ms

Loss rate: 0.76%

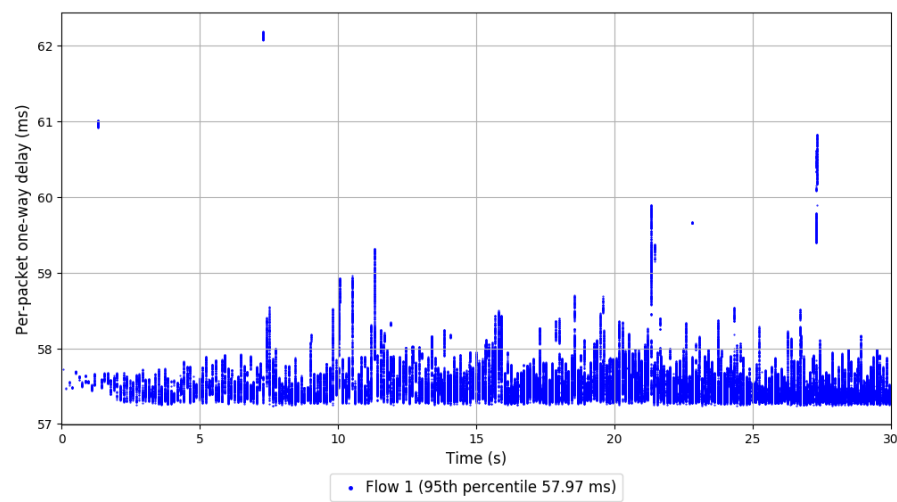
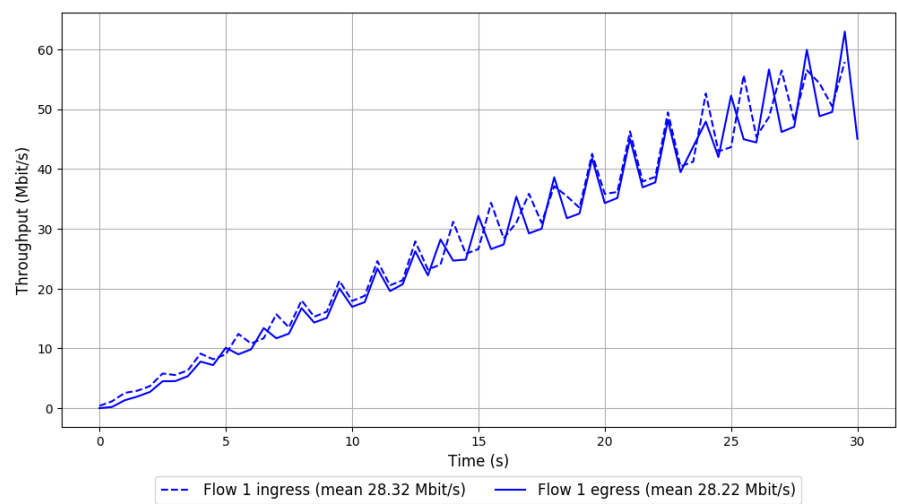
-- Flow 1:

Average throughput: 28.22 Mbit/s

95th percentile per-packet one-way delay: 57.971 ms

Loss rate: 0.76%

Run 5: Report of LEDBAT — Data Link

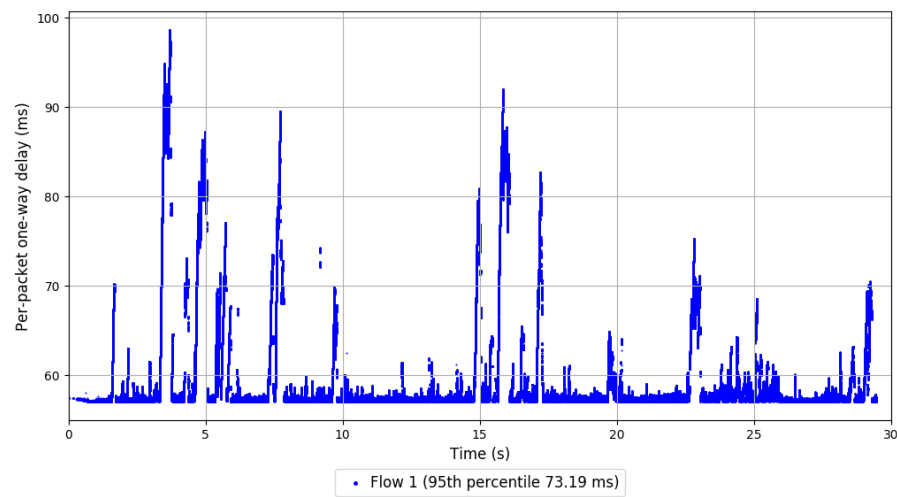
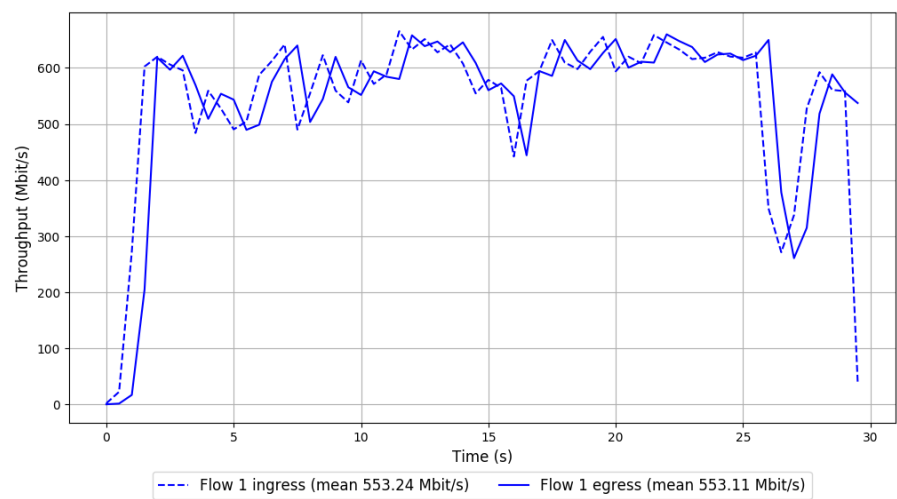


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 15:35:51
End at: 2019-08-27 15:36:21
Local clock offset: 0.068 ms
Remote clock offset: -0.427 ms

# Below is generated by plot.py at 2019-08-27 19:38:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 553.11 Mbit/s
95th percentile per-packet one-way delay: 73.194 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 553.11 Mbit/s
95th percentile per-packet one-way delay: 73.194 ms
Loss rate: 0.41%
```

Run 1: Report of Muses_DecisionTree — Data Link

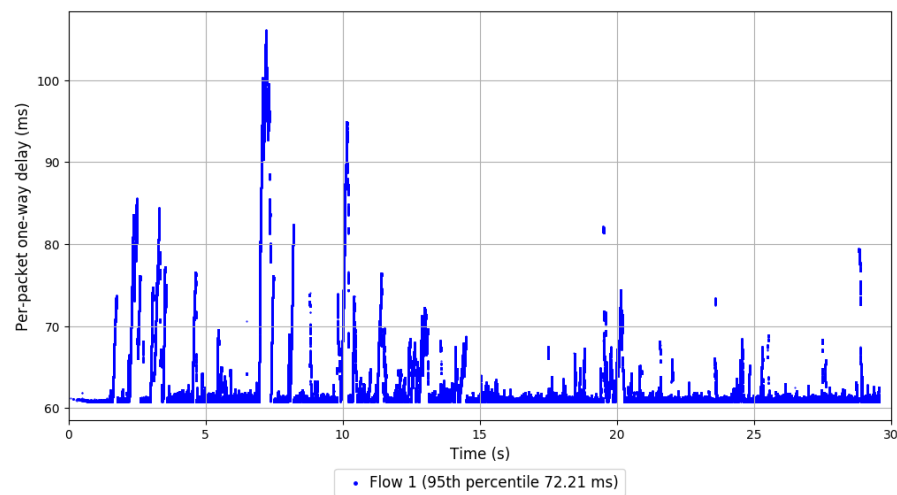
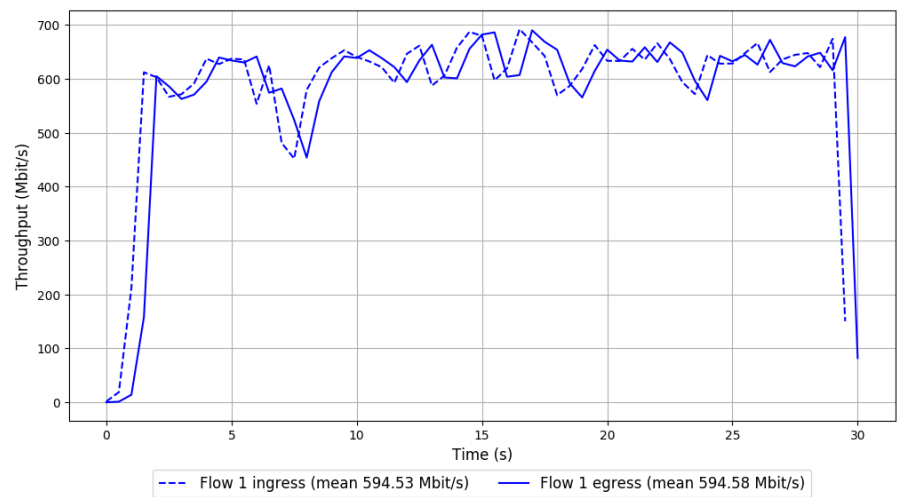


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-08-27 16:09:56
End at: 2019-08-27 16:10:26
Local clock offset: 0.45 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2019-08-27 19:39:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 594.58 Mbit/s
95th percentile per-packet one-way delay: 72.212 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 594.58 Mbit/s
95th percentile per-packet one-way delay: 72.212 ms
Loss rate: 0.42%

Run 2: Report of Muses_DecisionTree — Data Link

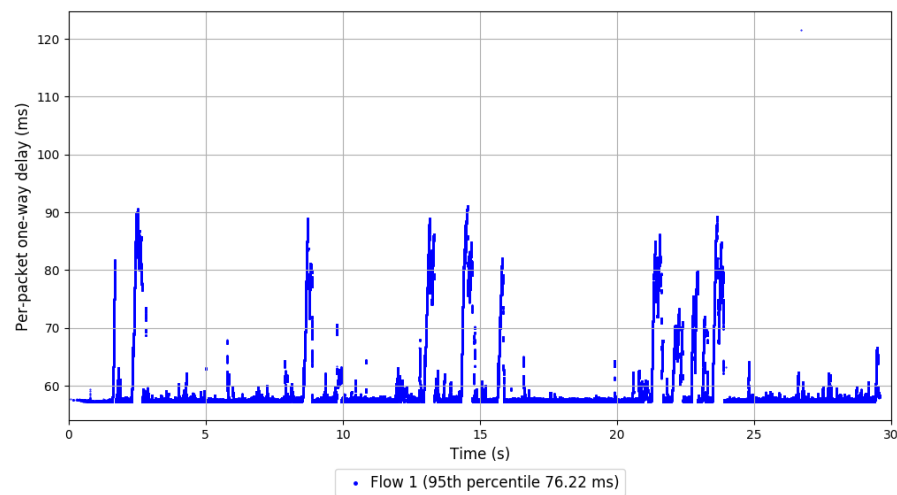
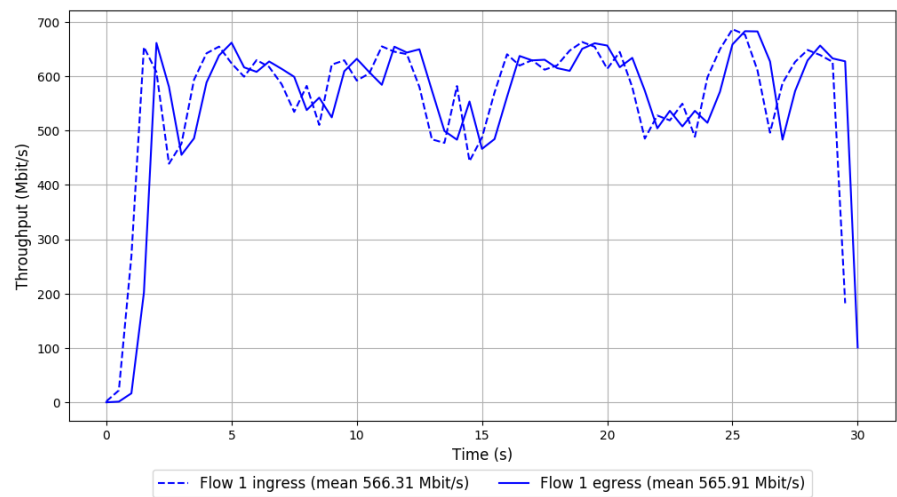


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-08-27 16:44:03
End at: 2019-08-27 16:44:33
Local clock offset: 0.091 ms
Remote clock offset: -0.236 ms

Below is generated by plot.py at 2019-08-27 19:39:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 565.91 Mbit/s
95th percentile per-packet one-way delay: 76.220 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 565.91 Mbit/s
95th percentile per-packet one-way delay: 76.220 ms
Loss rate: 0.47%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-08-27 17:18:11

End at: 2019-08-27 17:18:41

Local clock offset: 0.063 ms

Remote clock offset: 0.384 ms

Below is generated by plot.py at 2019-08-27 19:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.45 Mbit/s

95th percentile per-packet one-way delay: 77.135 ms

Loss rate: 0.44%

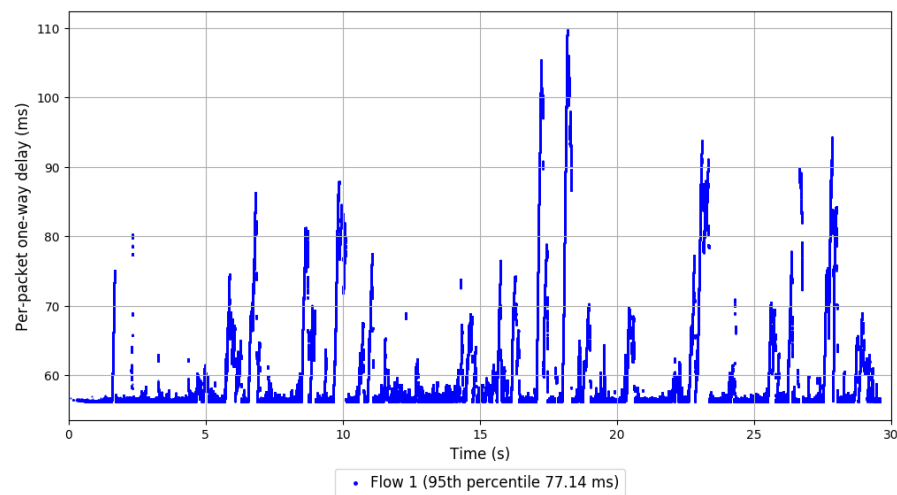
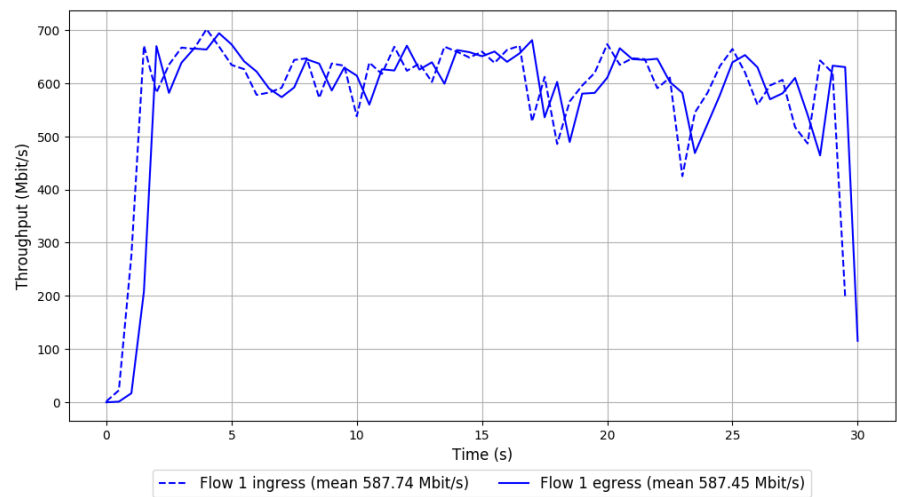
-- Flow 1:

Average throughput: 587.45 Mbit/s

95th percentile per-packet one-way delay: 77.135 ms

Loss rate: 0.44%

Run 4: Report of Muses_DecisionTree — Data Link

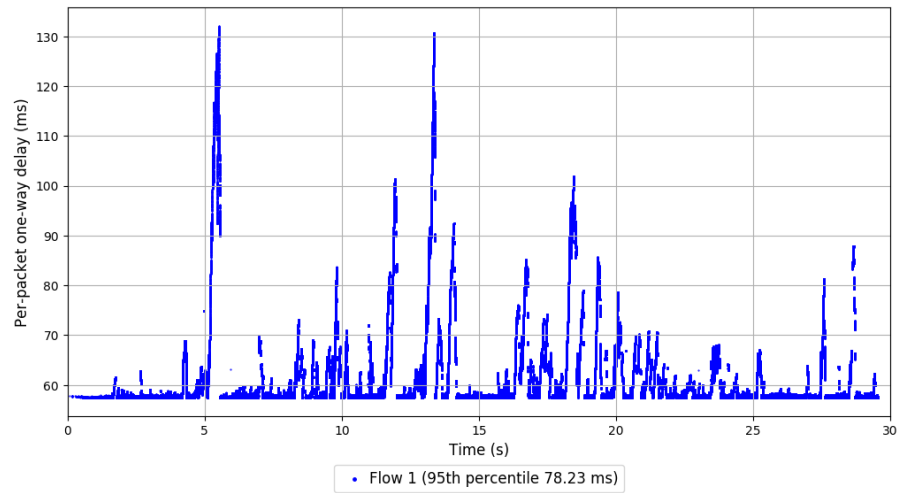
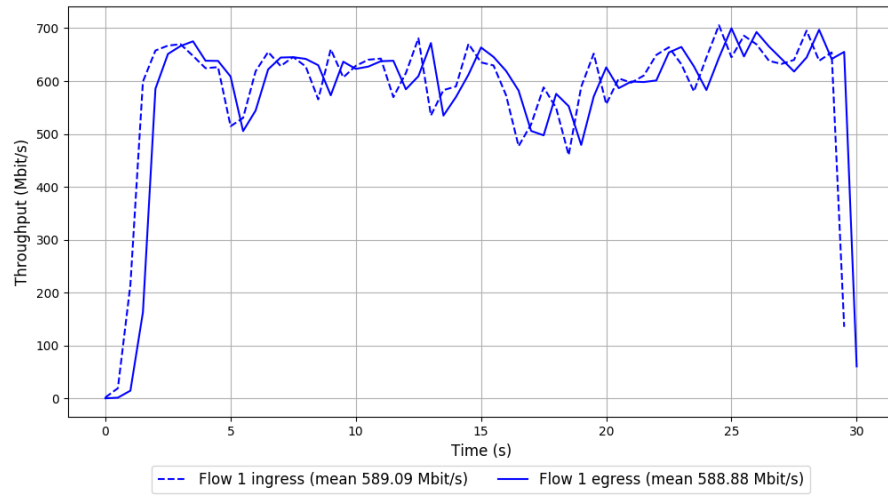


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-08-27 17:52:22
End at: 2019-08-27 17:52:52
Local clock offset: 0.098 ms
Remote clock offset: -0.511 ms

Below is generated by plot.py at 2019-08-27 19:44:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 588.88 Mbit/s
95th percentile per-packet one-way delay: 78.231 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 588.88 Mbit/s
95th percentile per-packet one-way delay: 78.231 ms
Loss rate: 0.43%

Run 5: Report of Muses_DecisionTree — Data Link

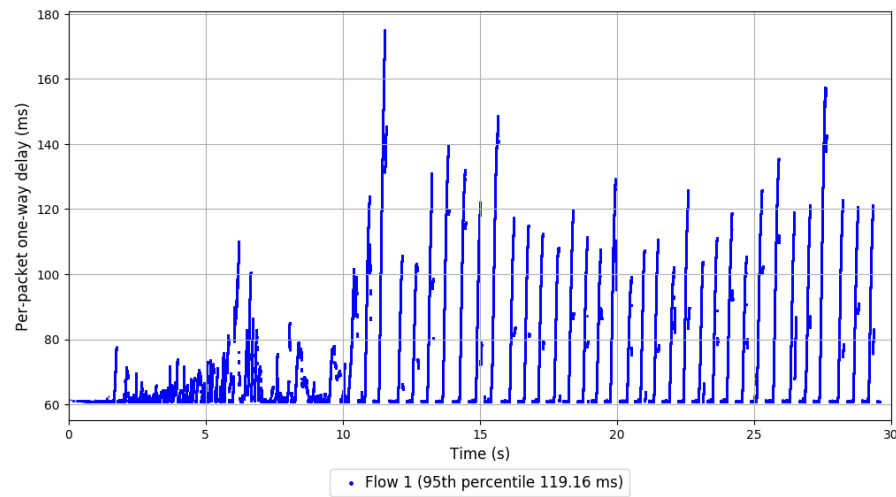
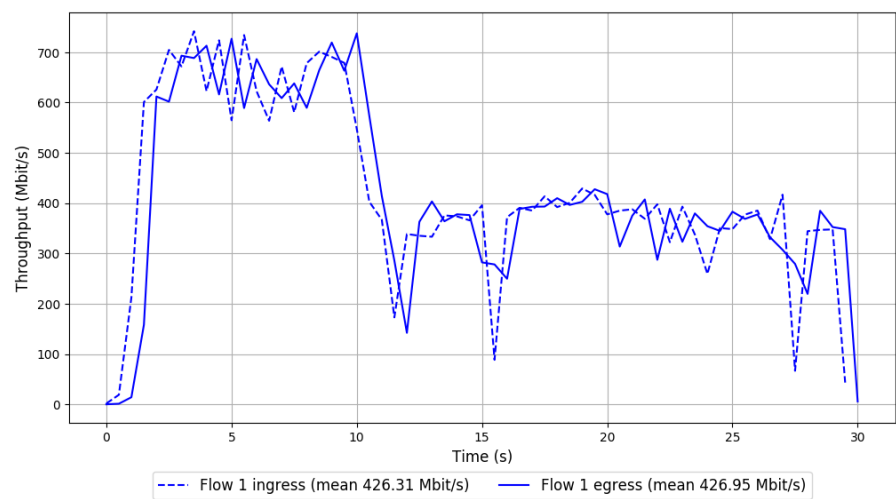


Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 15:45:45
End at: 2019-08-27 15:46:15
Local clock offset: 0.218 ms
Remote clock offset: -0.613 ms

Below is generated by plot.py at 2019-08-27 19:44:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 426.95 Mbit/s
95th percentile per-packet one-way delay: 119.156 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 426.95 Mbit/s
95th percentile per-packet one-way delay: 119.156 ms
Loss rate: 0.25%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 16:19:56

End at: 2019-08-27 16:20:26

Local clock offset: 0.107 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2019-08-27 19:44:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.05 Mbit/s

95th percentile per-packet one-way delay: 110.818 ms

Loss rate: 0.39%

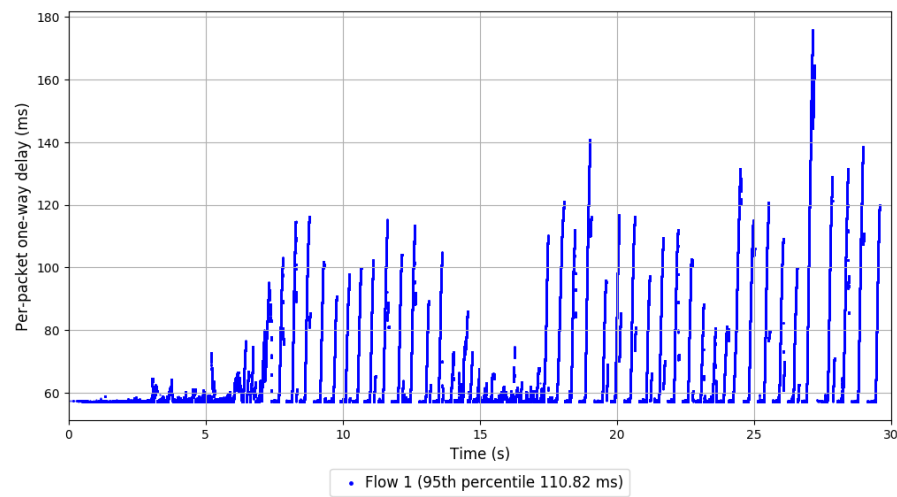
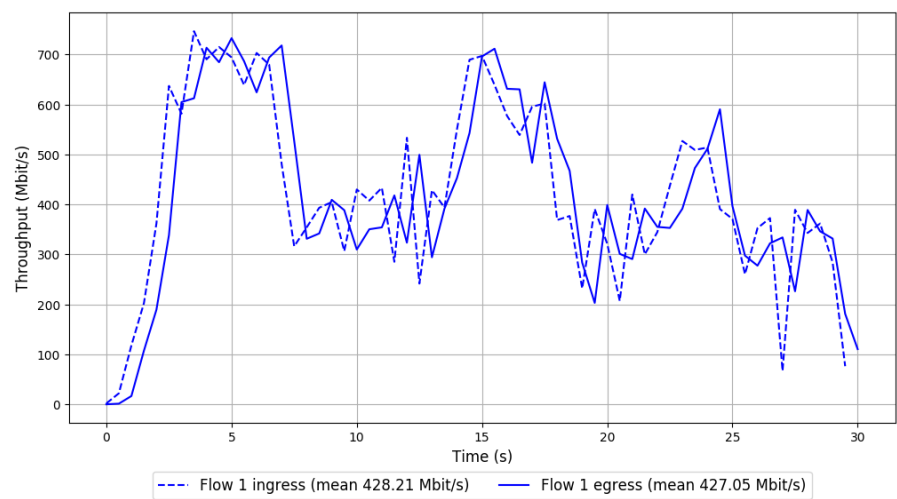
-- Flow 1:

Average throughput: 427.05 Mbit/s

95th percentile per-packet one-way delay: 110.818 ms

Loss rate: 0.39%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 16:53:58

End at: 2019-08-27 16:54:28

Local clock offset: 0.154 ms

Remote clock offset: -0.69 ms

Below is generated by plot.py at 2019-08-27 19:44:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.79 Mbit/s

95th percentile per-packet one-way delay: 124.115 ms

Loss rate: 0.47%

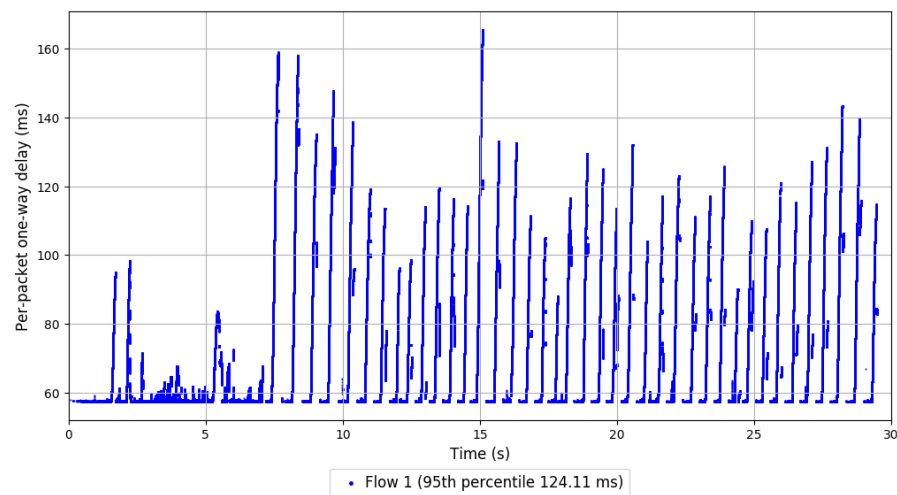
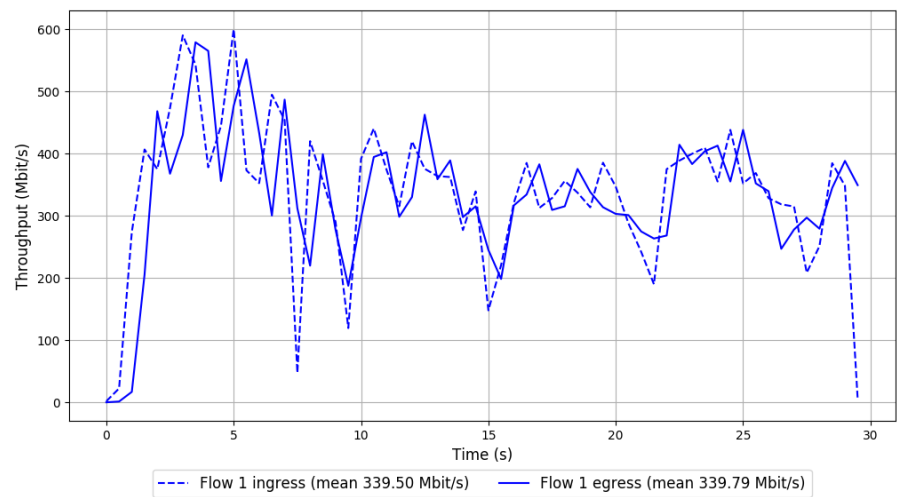
-- Flow 1:

Average throughput: 339.79 Mbit/s

95th percentile per-packet one-way delay: 124.115 ms

Loss rate: 0.47%

Run 3: Report of Muses_DecisionTreeH0 — Data Link

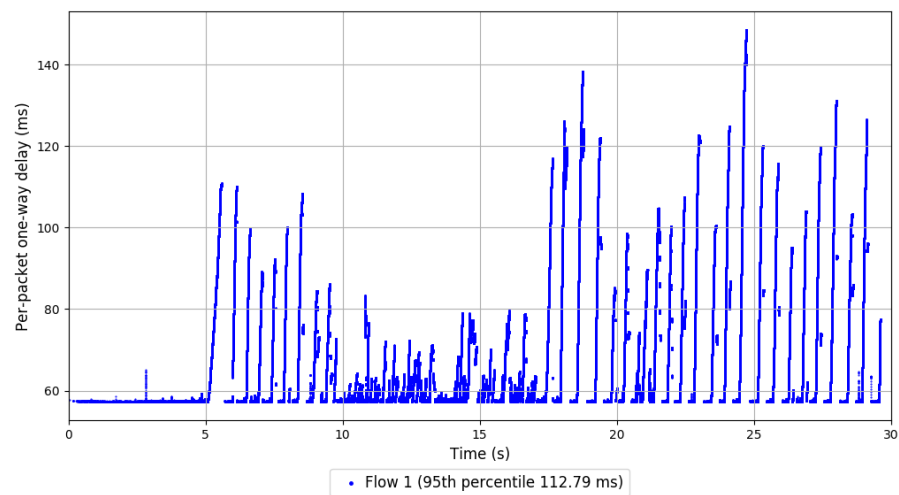
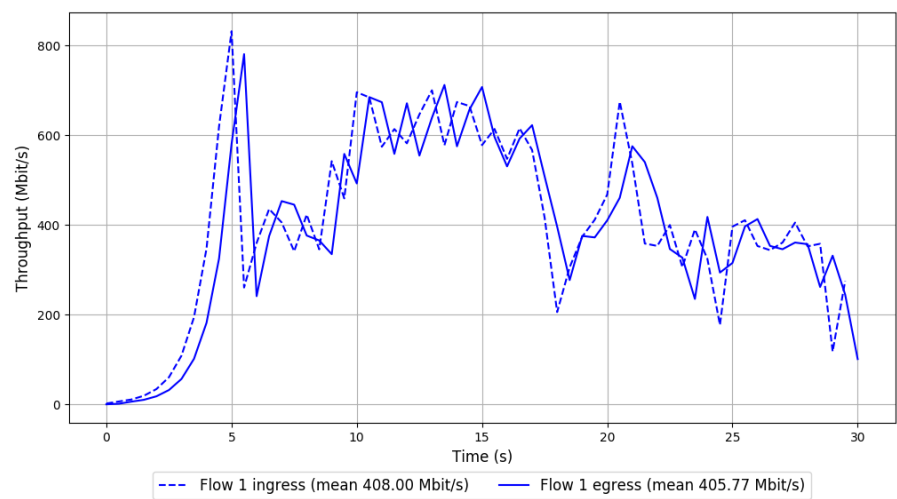


Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 17:28:14
End at: 2019-08-27 17:28:44
Local clock offset: -0.165 ms
Remote clock offset: -0.567 ms

Below is generated by plot.py at 2019-08-27 19:44:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 405.77 Mbit/s
95th percentile per-packet one-way delay: 112.788 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 405.77 Mbit/s
95th percentile per-packet one-way delay: 112.788 ms
Loss rate: 0.94%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 18:02:21

End at: 2019-08-27 18:02:51

Local clock offset: 0.327 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2019-08-27 19:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.90 Mbit/s

95th percentile per-packet one-way delay: 115.256 ms

Loss rate: 0.04%

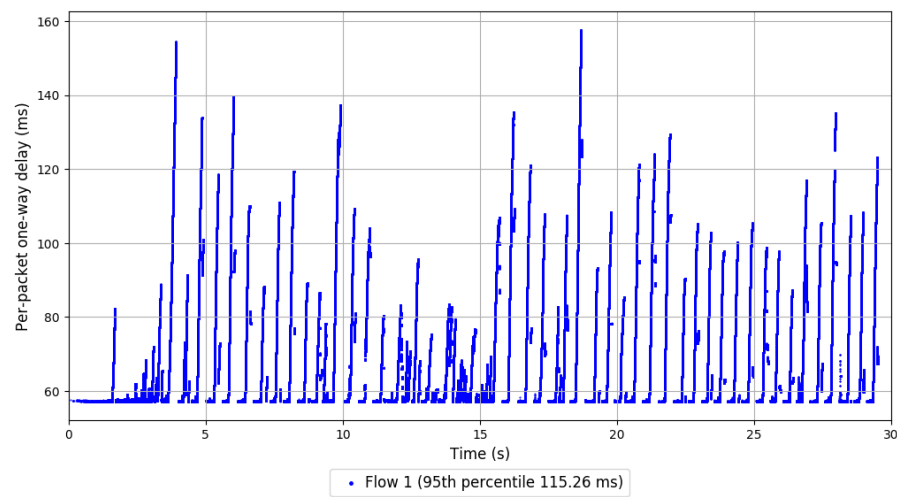
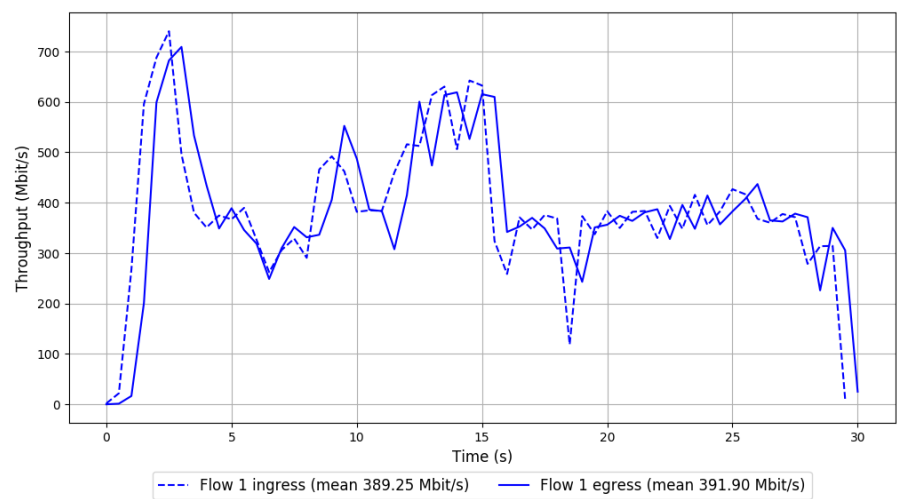
-- Flow 1:

Average throughput: 391.90 Mbit/s

95th percentile per-packet one-way delay: 115.256 ms

Loss rate: 0.04%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

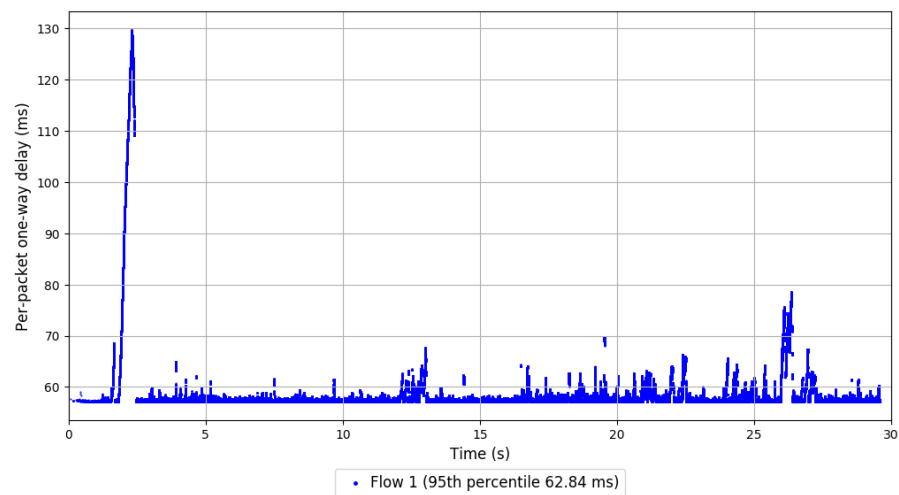
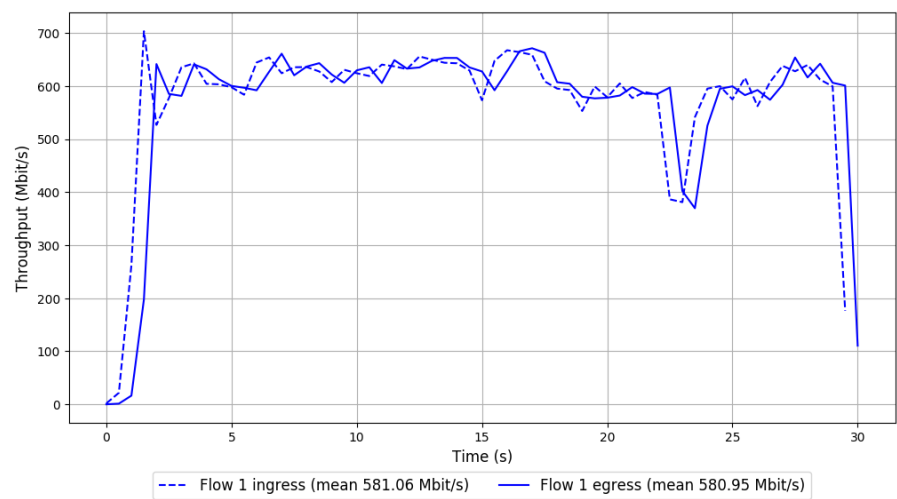


Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 15:39:56
End at: 2019-08-27 15:40:26
Local clock offset: -0.119 ms
Remote clock offset: -0.426 ms

Below is generated by plot.py at 2019-08-27 19:47:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 580.95 Mbit/s
95th percentile per-packet one-way delay: 62.839 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 580.95 Mbit/s
95th percentile per-packet one-way delay: 62.839 ms
Loss rate: 0.41%

Run 1: Report of Muses_DecisionTreeR0 — Data Link

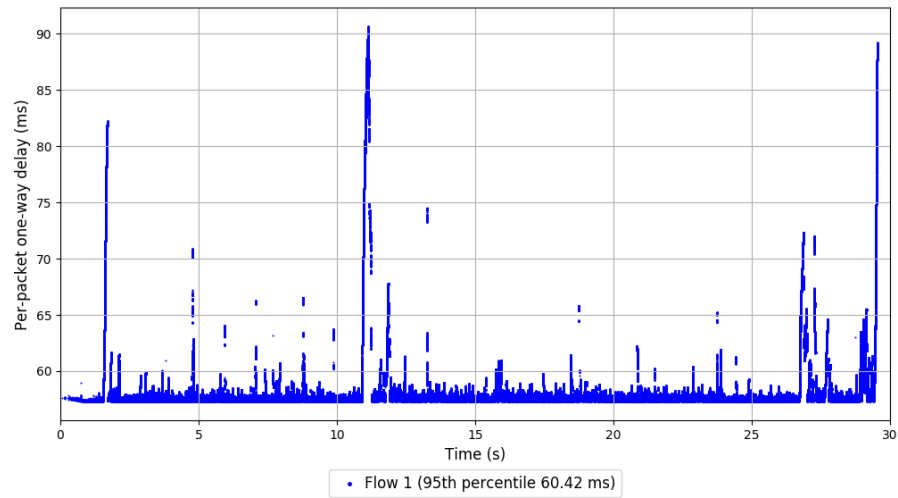
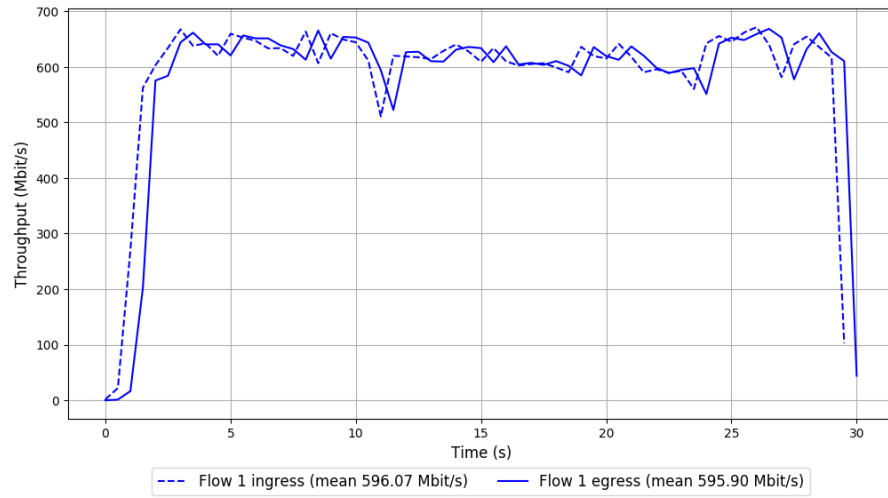


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 16:14:03
End at: 2019-08-27 16:14:33
Local clock offset: 0.281 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2019-08-27 19:50:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 595.90 Mbit/s
95th percentile per-packet one-way delay: 60.425 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 595.90 Mbit/s
95th percentile per-packet one-way delay: 60.425 ms
Loss rate: 0.42%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 16:48:08

End at: 2019-08-27 16:48:38

Local clock offset: 0.131 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2019-08-27 19:50:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 590.99 Mbit/s

95th percentile per-packet one-way delay: 68.429 ms

Loss rate: 0.26%

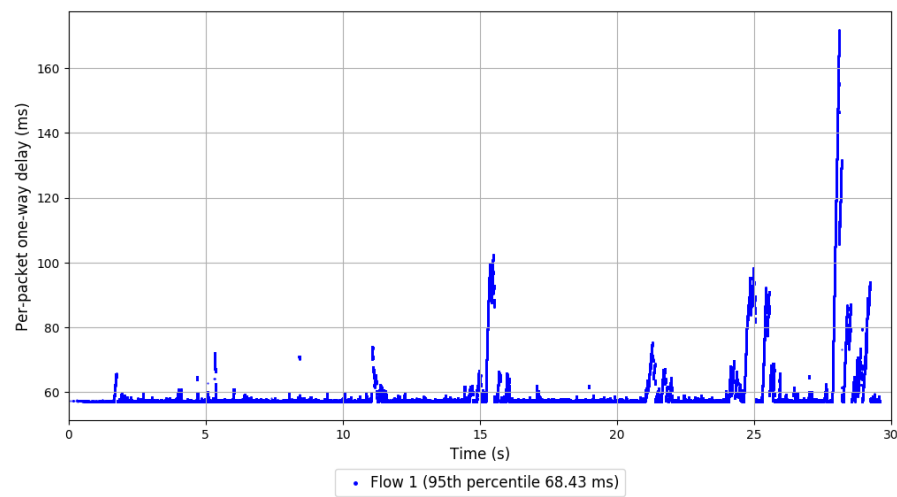
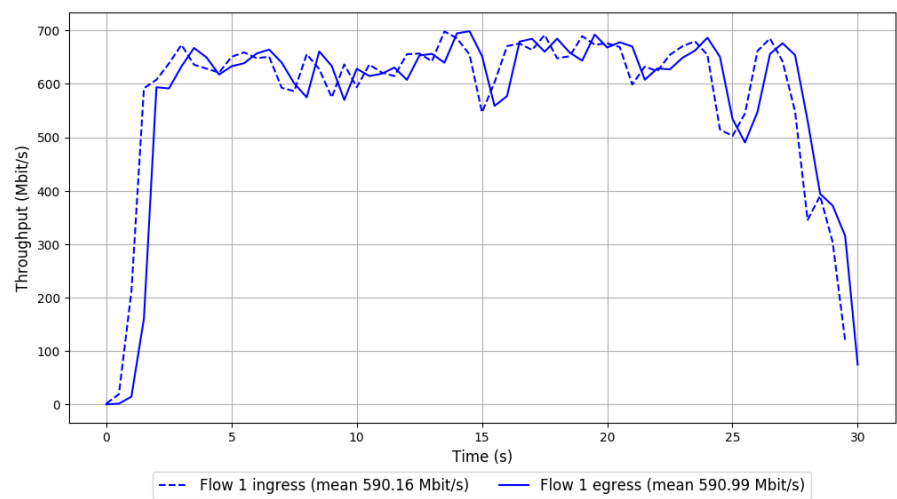
-- Flow 1:

Average throughput: 590.99 Mbit/s

95th percentile per-packet one-way delay: 68.429 ms

Loss rate: 0.26%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 17:22:17

End at: 2019-08-27 17:22:47

Local clock offset: 0.703 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2019-08-27 19:51:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 597.30 Mbit/s

95th percentile per-packet one-way delay: 69.261 ms

Loss rate: 0.39%

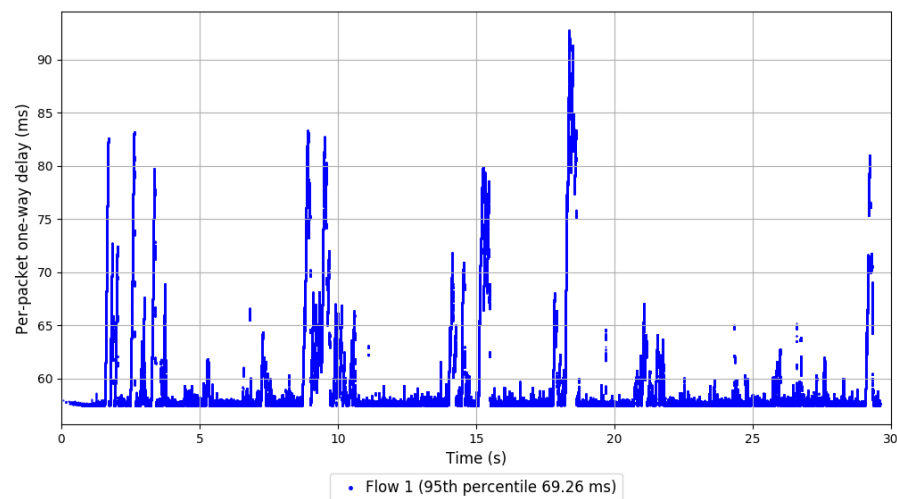
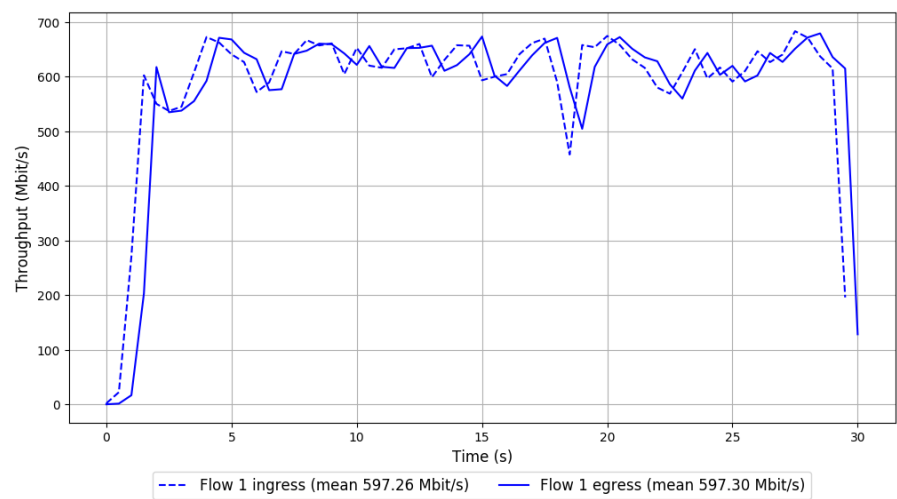
-- Flow 1:

Average throughput: 597.30 Mbit/s

95th percentile per-packet one-way delay: 69.261 ms

Loss rate: 0.39%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 17:56:29

End at: 2019-08-27 17:56:59

Local clock offset: 0.162 ms

Remote clock offset: 0.287 ms

Below is generated by plot.py at 2019-08-27 19:51:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 581.74 Mbit/s

95th percentile per-packet one-way delay: 88.011 ms

Loss rate: 0.38%

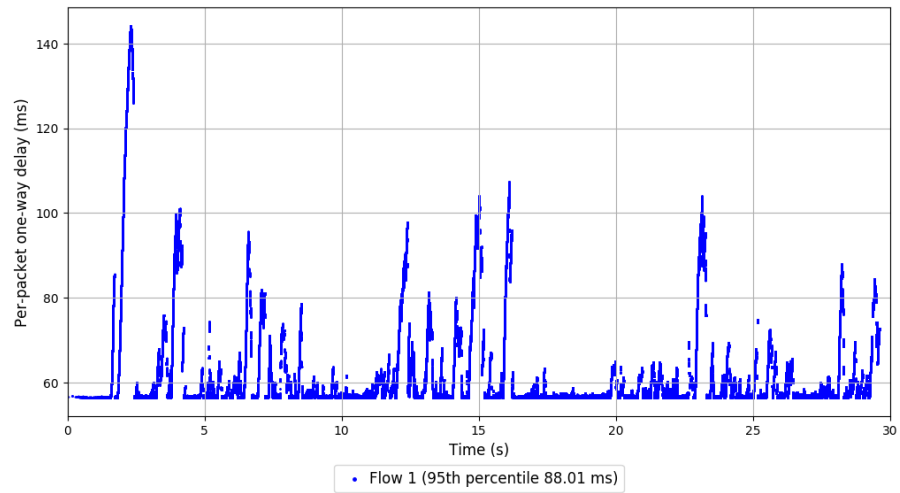
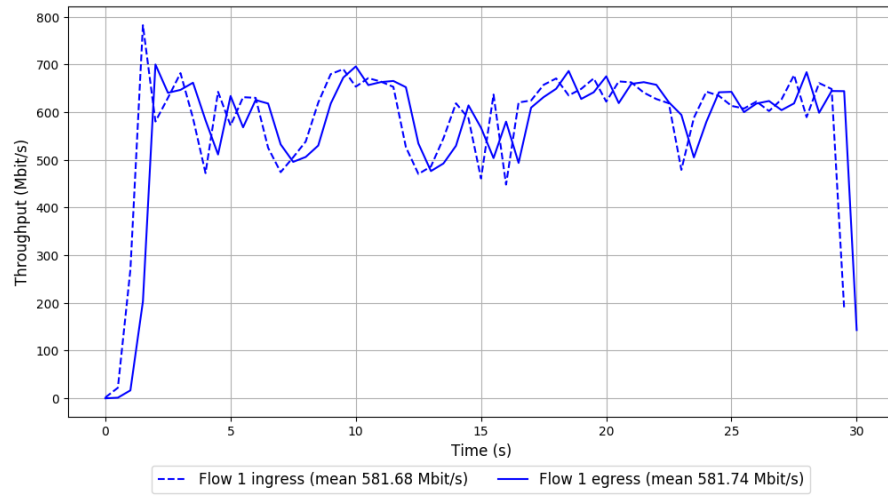
-- Flow 1:

Average throughput: 581.74 Mbit/s

95th percentile per-packet one-way delay: 88.011 ms

Loss rate: 0.38%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-08-27 15:49:46

End at: 2019-08-27 15:50:16

Local clock offset: 0.02 ms

Remote clock offset: -0.471 ms

Below is generated by plot.py at 2019-08-27 19:55:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 428.87 Mbit/s

95th percentile per-packet one-way delay: 173.696 ms

Loss rate: 3.19%

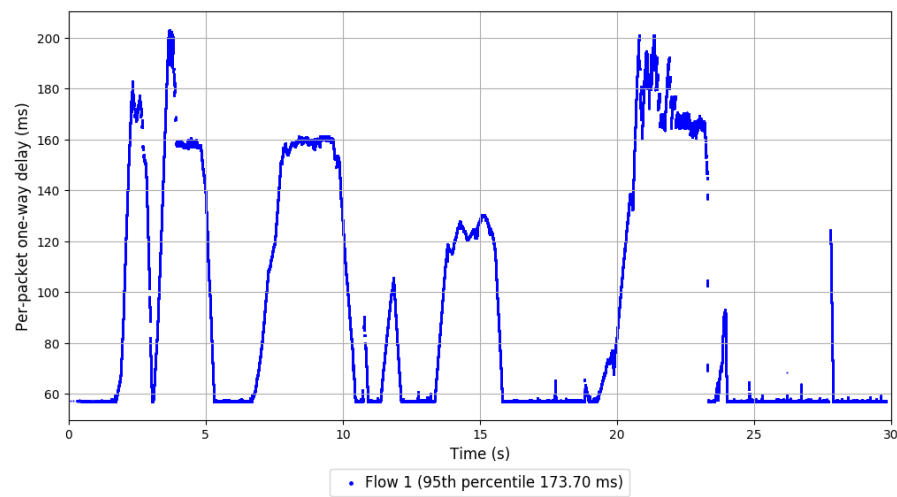
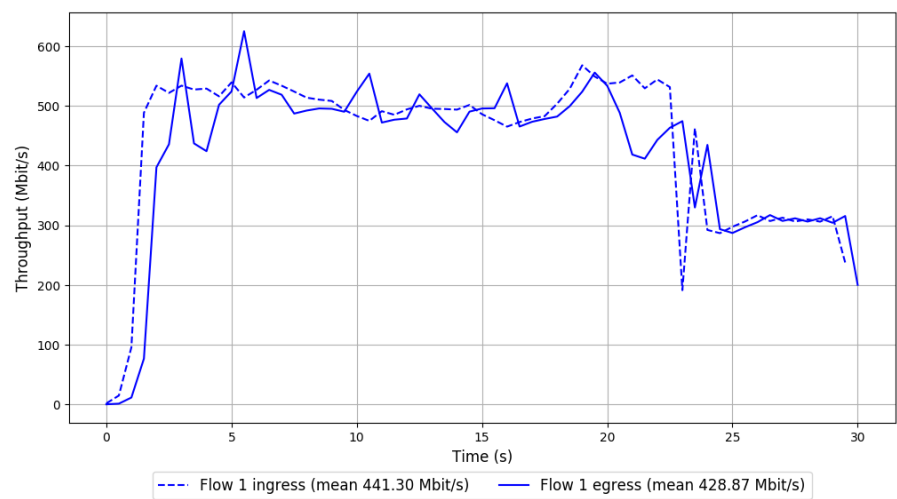
-- Flow 1:

Average throughput: 428.87 Mbit/s

95th percentile per-packet one-way delay: 173.696 ms

Loss rate: 3.19%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-08-27 16:23:44

End at: 2019-08-27 16:24:14

Local clock offset: 0.195 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2019-08-27 19:58:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 471.64 Mbit/s

95th percentile per-packet one-way delay: 166.195 ms

Loss rate: 3.54%

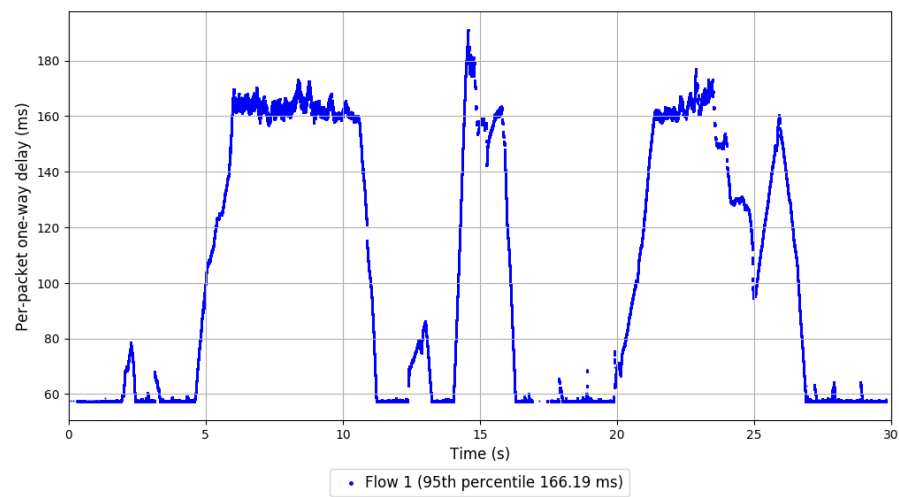
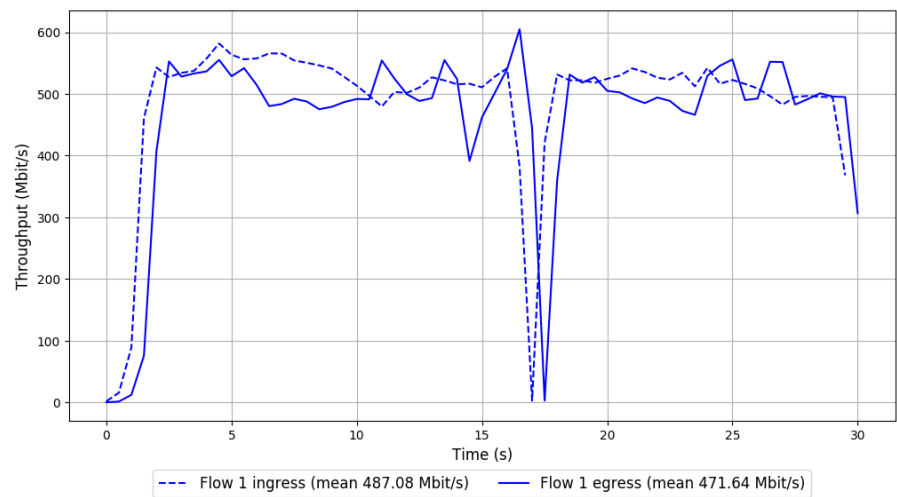
-- Flow 1:

Average throughput: 471.64 Mbit/s

95th percentile per-packet one-way delay: 166.195 ms

Loss rate: 3.54%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-08-27 16:57:55

End at: 2019-08-27 16:58:25

Local clock offset: -0.259 ms

Remote clock offset: -0.077 ms

Below is generated by plot.py at 2019-08-27 19:58:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.94 Mbit/s

95th percentile per-packet one-way delay: 112.886 ms

Loss rate: 0.45%

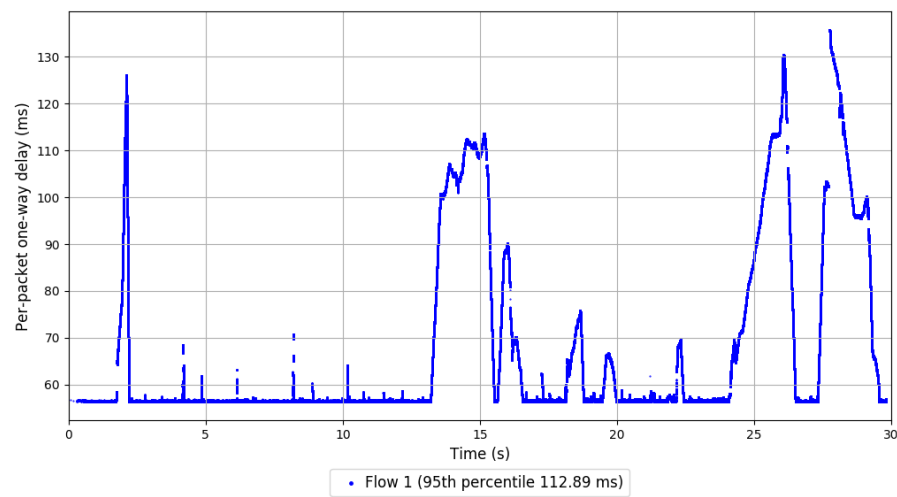
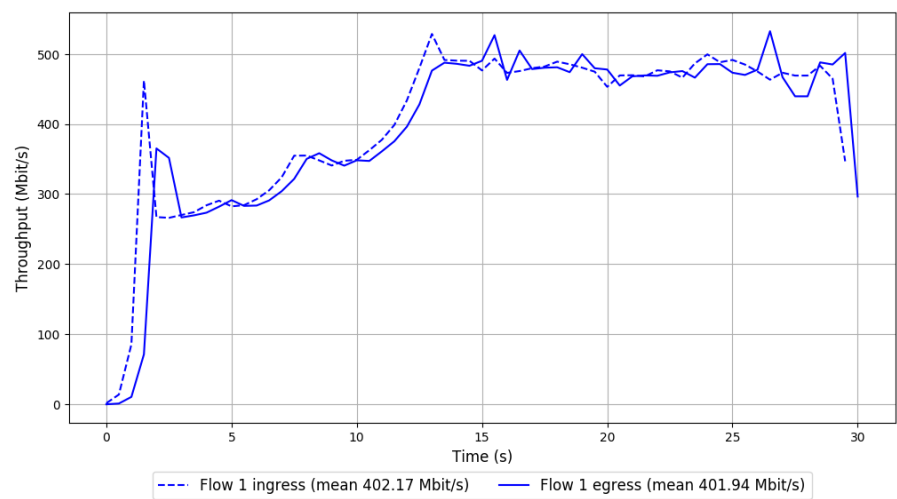
-- Flow 1:

Average throughput: 401.94 Mbit/s

95th percentile per-packet one-way delay: 112.886 ms

Loss rate: 0.45%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-08-27 17:32:16

End at: 2019-08-27 17:32:46

Local clock offset: 0.163 ms

Remote clock offset: 0.328 ms

Below is generated by plot.py at 2019-08-27 20:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 460.01 Mbit/s

95th percentile per-packet one-way delay: 165.788 ms

Loss rate: 1.51%

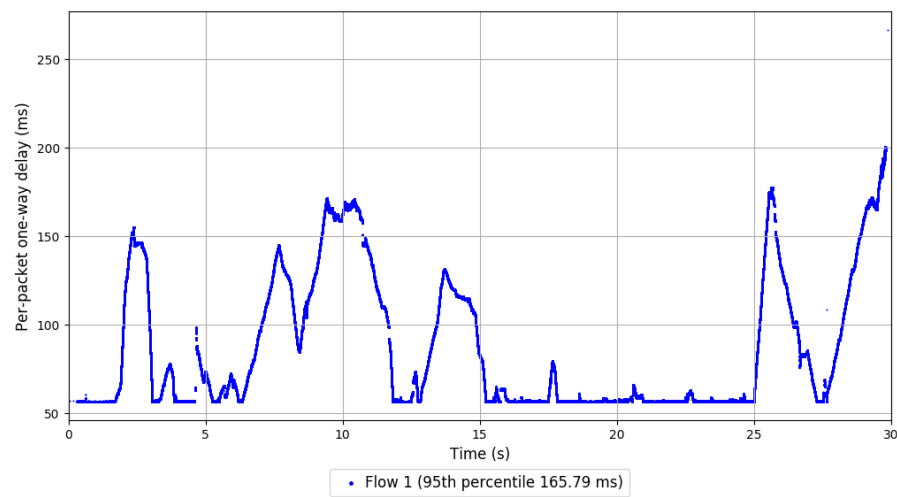
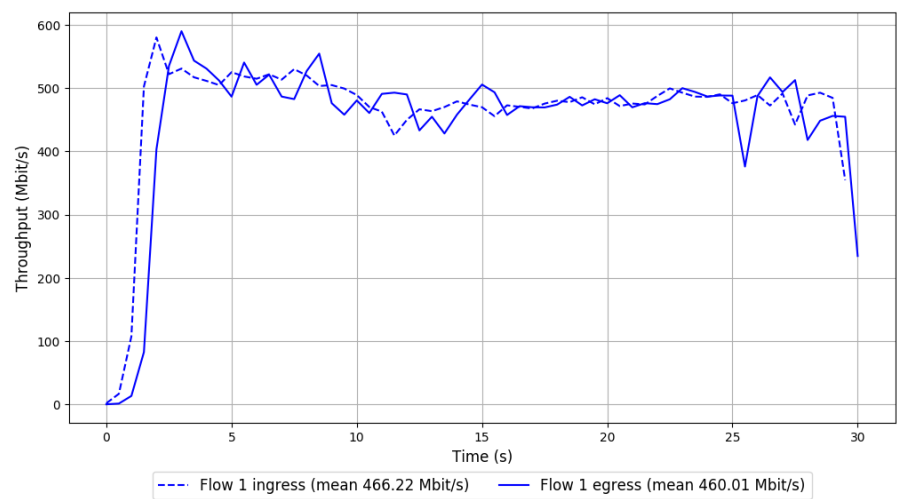
-- Flow 1:

Average throughput: 460.01 Mbit/s

95th percentile per-packet one-way delay: 165.788 ms

Loss rate: 1.51%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-08-27 18:06:22

End at: 2019-08-27 18:06:52

Local clock offset: 0.347 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2019-08-27 20:04:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 483.66 Mbit/s

95th percentile per-packet one-way delay: 156.873 ms

Loss rate: 0.90%

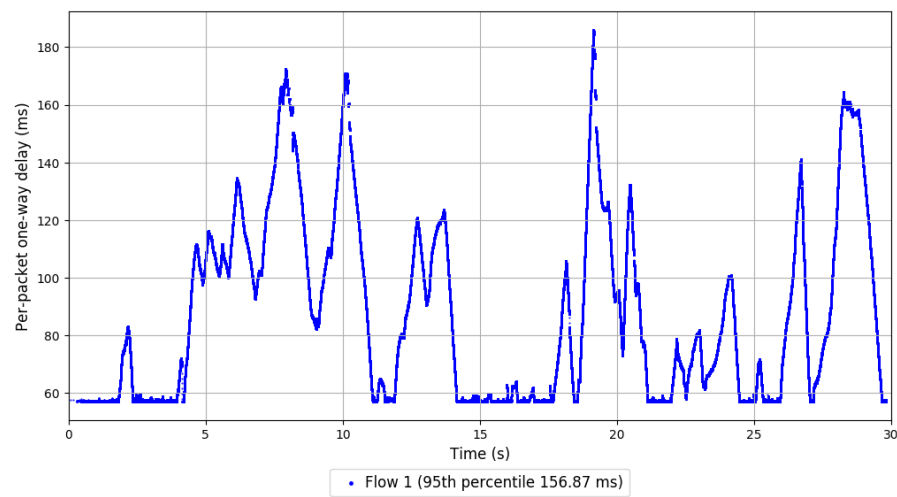
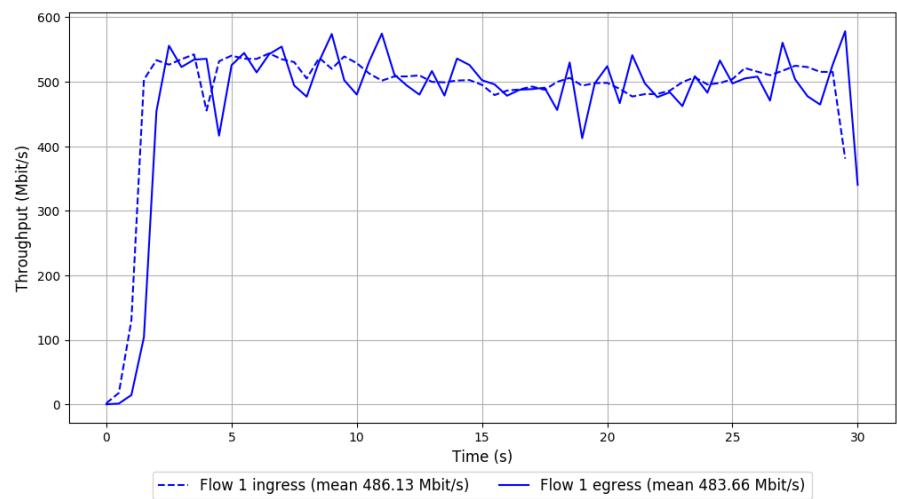
-- Flow 1:

Average throughput: 483.66 Mbit/s

95th percentile per-packet one-way delay: 156.873 ms

Loss rate: 0.90%

Run 5: Report of PCC-Allegro — Data Link

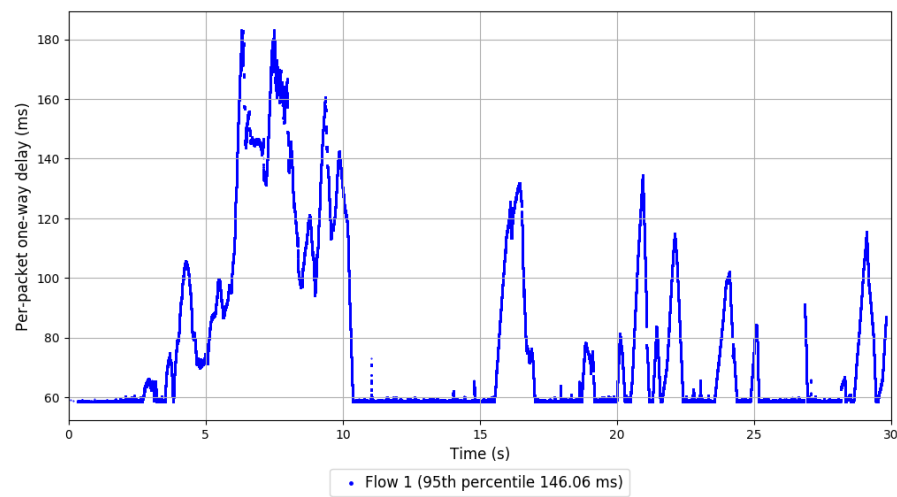
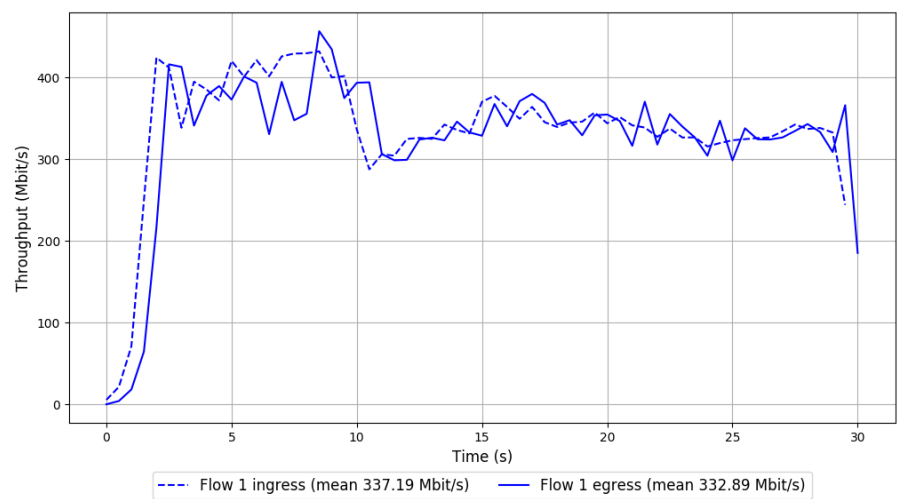


Run 1: Statistics of PCC-Expr

Start at: 2019-08-27 16:01:43
End at: 2019-08-27 16:02:13
Local clock offset: -0.034 ms
Remote clock offset: -1.518 ms

Below is generated by plot.py at 2019-08-27 20:04:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 332.89 Mbit/s
95th percentile per-packet one-way delay: 146.061 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 332.89 Mbit/s
95th percentile per-packet one-way delay: 146.061 ms
Loss rate: 1.66%

Run 1: Report of PCC-Expr — Data Link

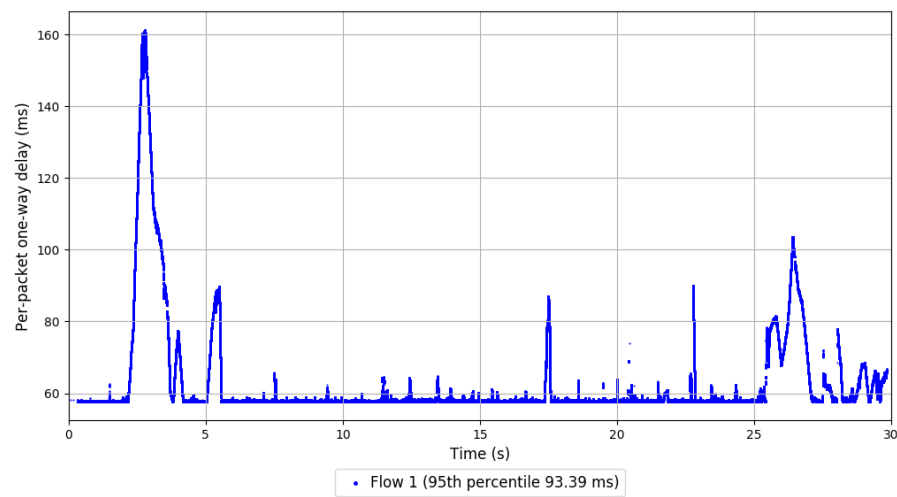
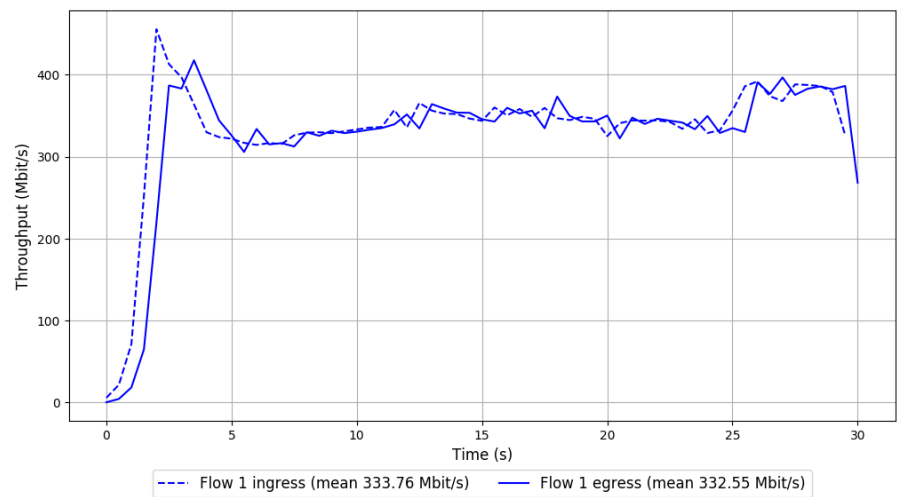


Run 2: Statistics of PCC-Expr

Start at: 2019-08-27 16:35:48
End at: 2019-08-27 16:36:18
Local clock offset: 0.38 ms
Remote clock offset: -0.373 ms

Below is generated by plot.py at 2019-08-27 20:04:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 332.55 Mbit/s
95th percentile per-packet one-way delay: 93.394 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 332.55 Mbit/s
95th percentile per-packet one-way delay: 93.394 ms
Loss rate: 0.76%

Run 2: Report of PCC-Expr — Data Link

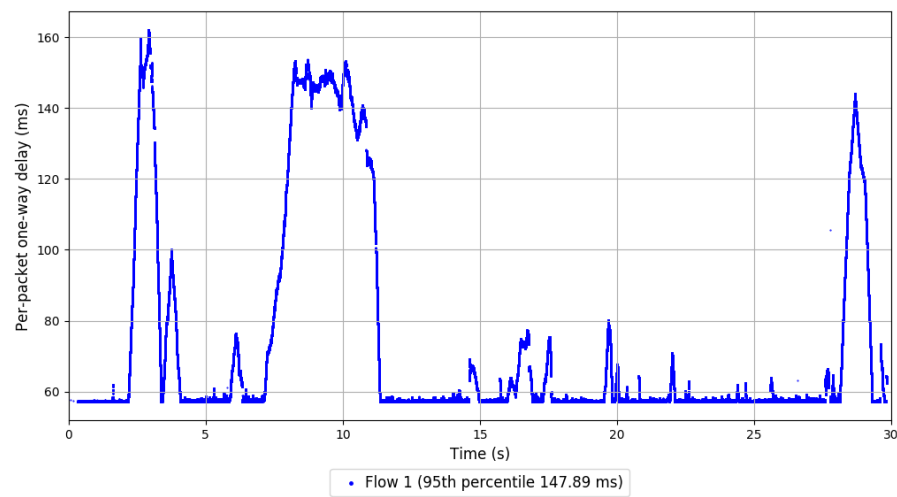
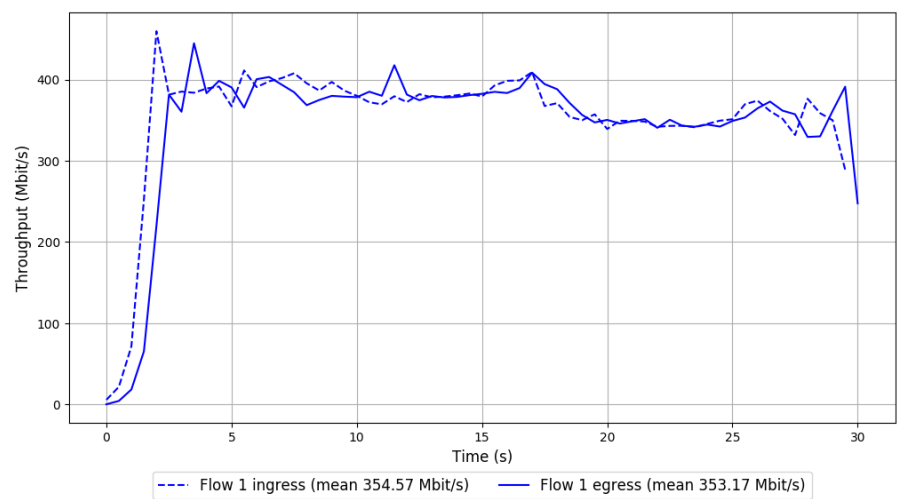


Run 3: Statistics of PCC-Expr

Start at: 2019-08-27 17:09:56
End at: 2019-08-27 17:10:26
Local clock offset: 0.167 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2019-08-27 20:04:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 353.17 Mbit/s
95th percentile per-packet one-way delay: 147.889 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 353.17 Mbit/s
95th percentile per-packet one-way delay: 147.889 ms
Loss rate: 0.79%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-08-27 17:44:11

End at: 2019-08-27 17:44:41

Local clock offset: -0.127 ms

Remote clock offset: 0.175 ms

Below is generated by plot.py at 2019-08-27 20:04:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.28 Mbit/s

95th percentile per-packet one-way delay: 146.771 ms

Loss rate: 0.79%

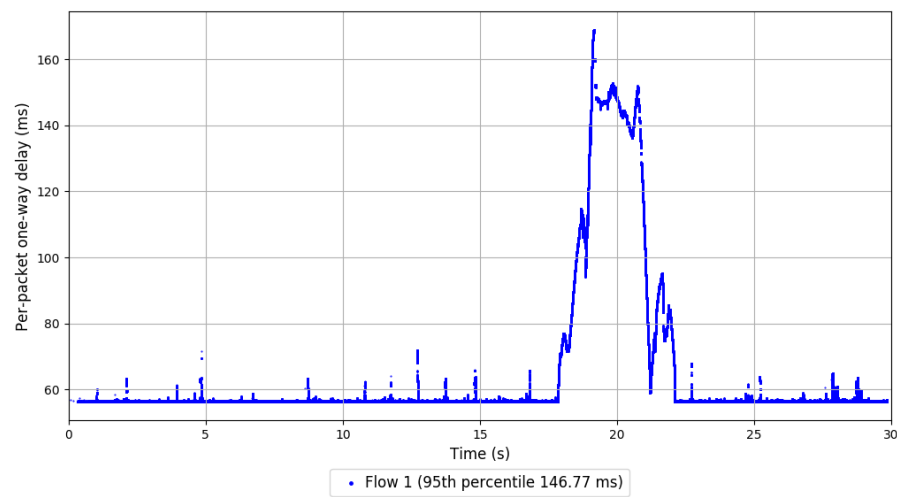
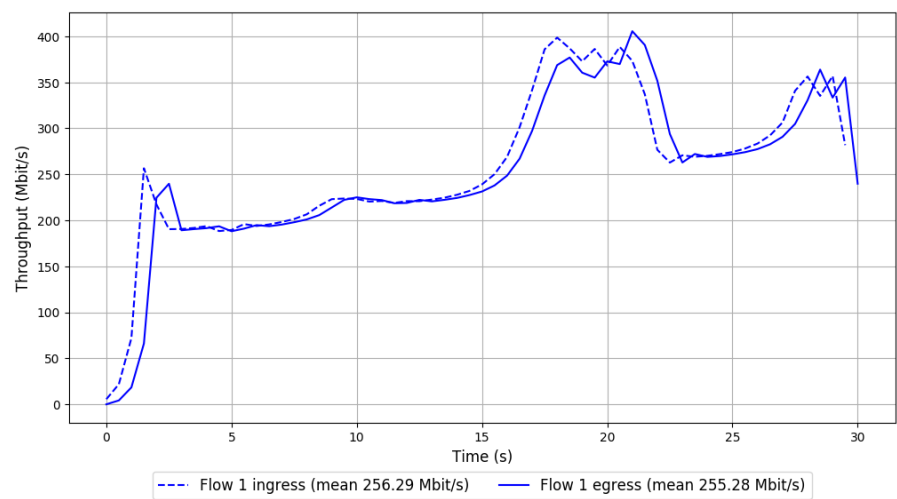
-- Flow 1:

Average throughput: 255.28 Mbit/s

95th percentile per-packet one-way delay: 146.771 ms

Loss rate: 0.79%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

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

End at: 2019-08-27 18:18:56

Local clock offset: 0.325 ms

Remote clock offset: 0.163 ms

Below is generated by plot.py at 2019-08-27 20:07:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.15 Mbit/s

95th percentile per-packet one-way delay: 161.656 ms

Loss rate: 3.47%

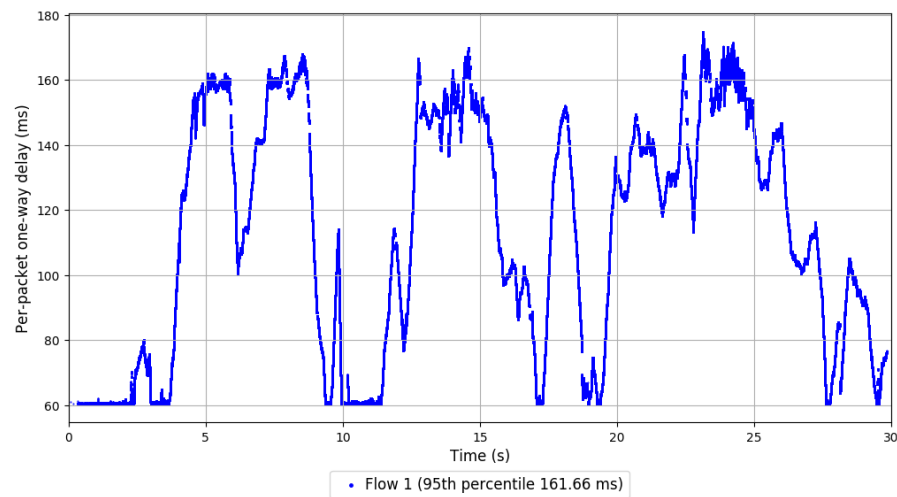
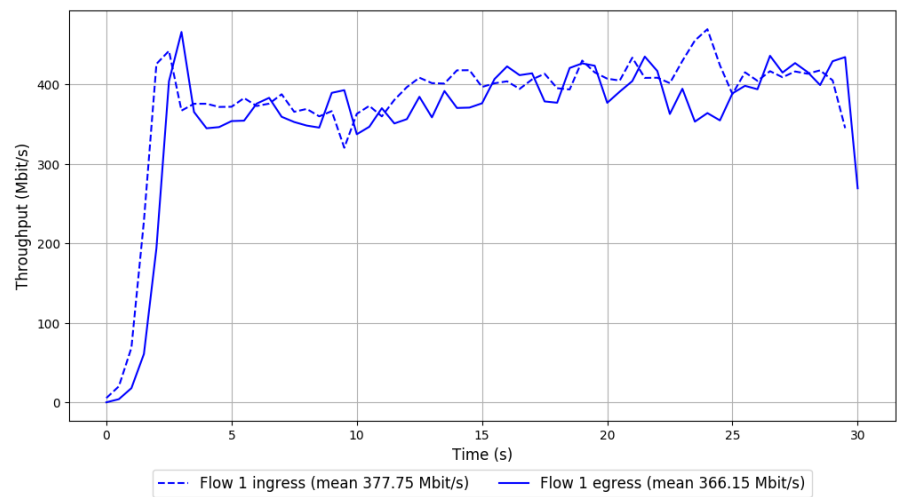
-- Flow 1:

Average throughput: 366.15 Mbit/s

95th percentile per-packet one-way delay: 161.656 ms

Loss rate: 3.47%

Run 5: Report of PCC-Expr — Data Link

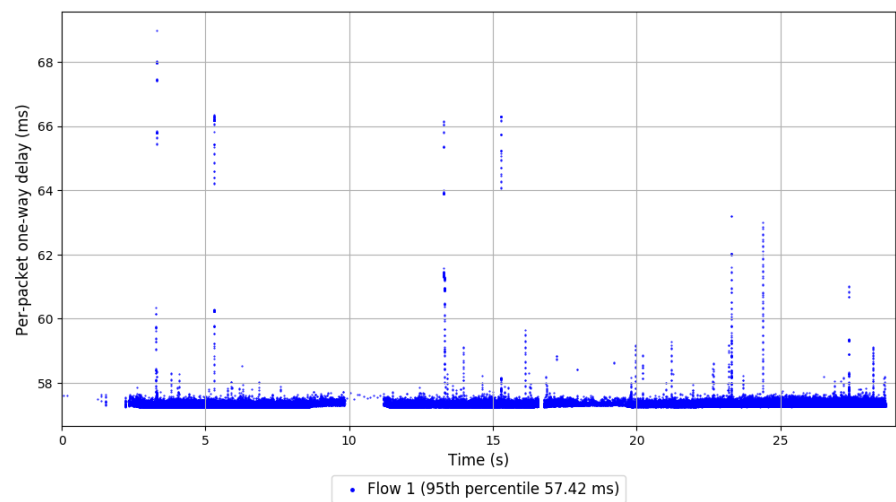
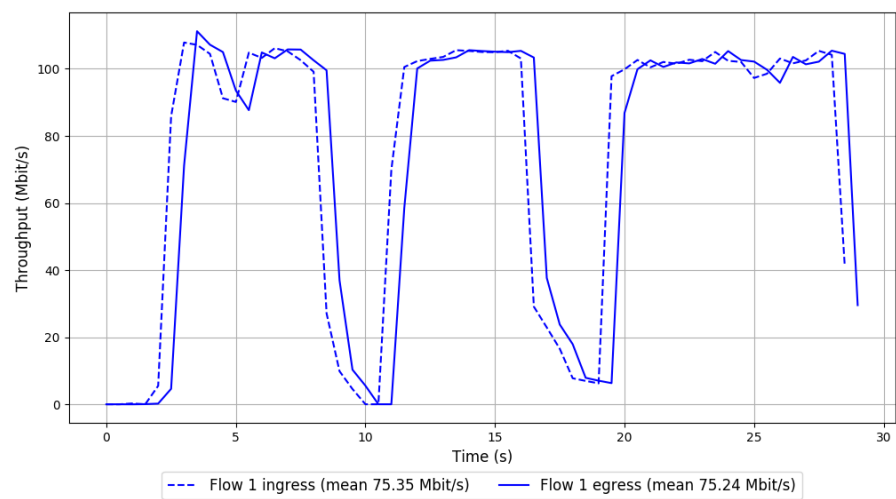


Run 1: Statistics of QUIC Cubic

Start at: 2019-08-27 15:51:17
End at: 2019-08-27 15:51:47
Local clock offset: -0.303 ms
Remote clock offset: -1.043 ms

Below is generated by plot.py at 2019-08-27 20:07:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.24 Mbit/s
95th percentile per-packet one-way delay: 57.417 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 75.24 Mbit/s
95th percentile per-packet one-way delay: 57.417 ms
Loss rate: 0.54%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-08-27 16:25:18

End at: 2019-08-27 16:25:48

Local clock offset: -0.307 ms

Remote clock offset: -0.038 ms

Below is generated by plot.py at 2019-08-27 20:07:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.18 Mbit/s

95th percentile per-packet one-way delay: 56.648 ms

Loss rate: 0.54%

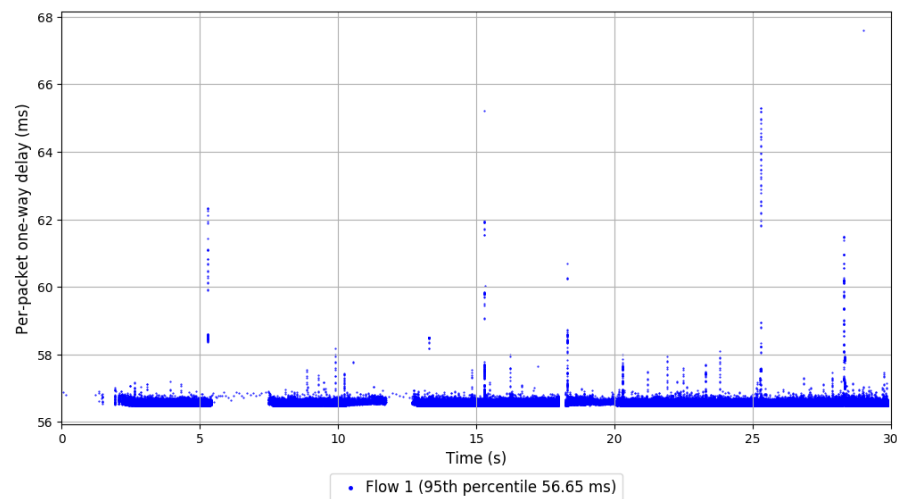
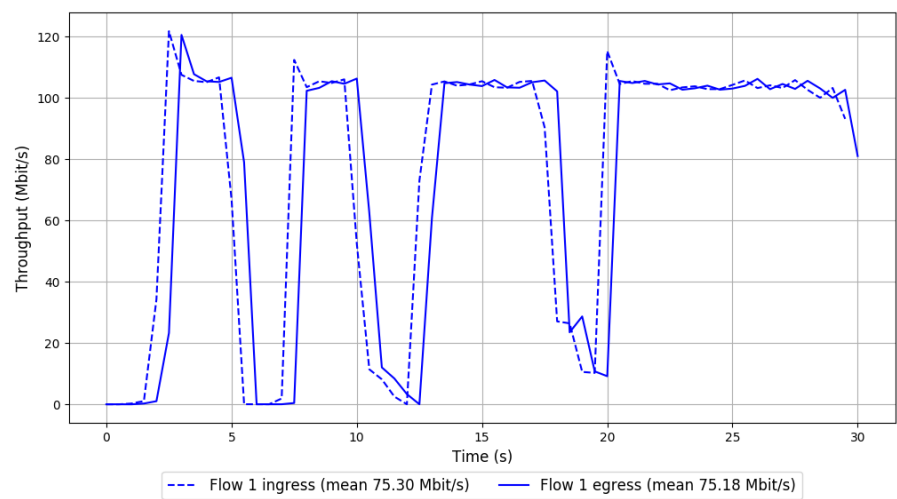
-- Flow 1:

Average throughput: 75.18 Mbit/s

95th percentile per-packet one-way delay: 56.648 ms

Loss rate: 0.54%

Run 2: Report of QUIC Cubic — Data Link

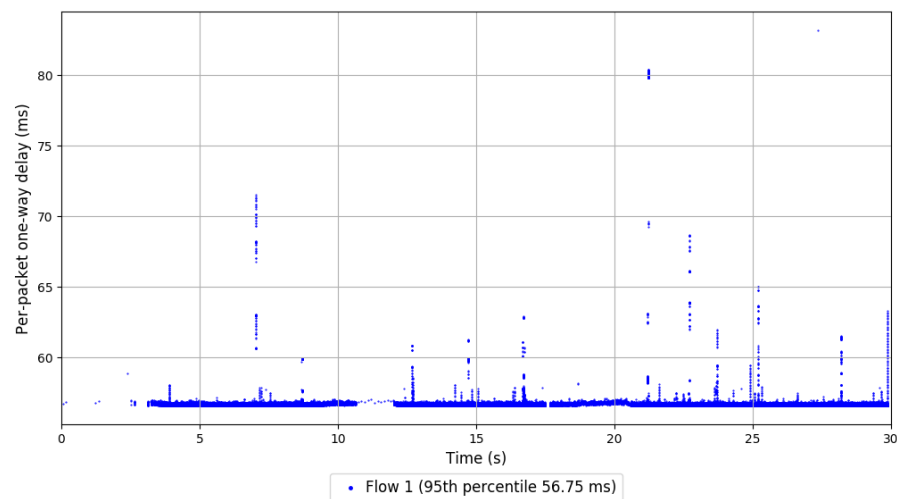
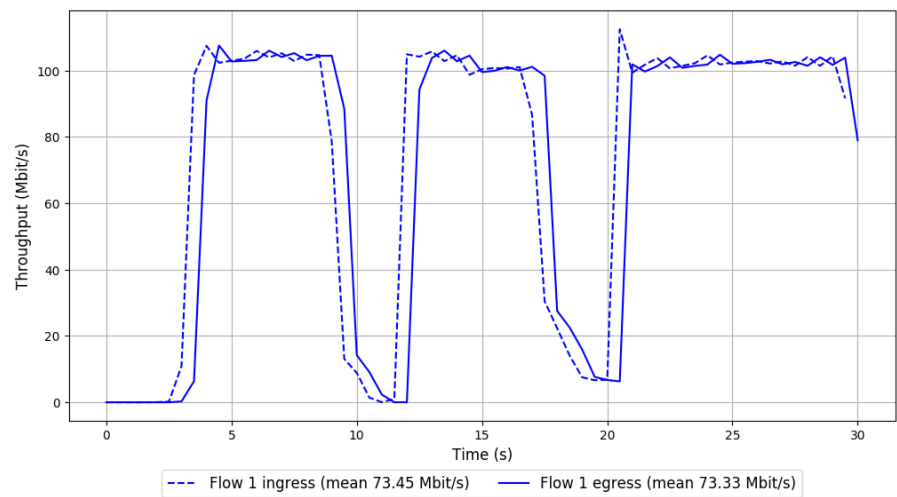


Run 3: Statistics of QUIC Cubic

Start at: 2019-08-27 16:59:25
End at: 2019-08-27 16:59:55
Local clock offset: -0.228 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2019-08-27 20:07:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.33 Mbit/s
95th percentile per-packet one-way delay: 56.746 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 73.33 Mbit/s
95th percentile per-packet one-way delay: 56.746 ms
Loss rate: 0.56%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-08-27 17:33:50

End at: 2019-08-27 17:34:20

Local clock offset: 0.222 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2019-08-27 20:07:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 57.071 ms

Loss rate: 0.56%

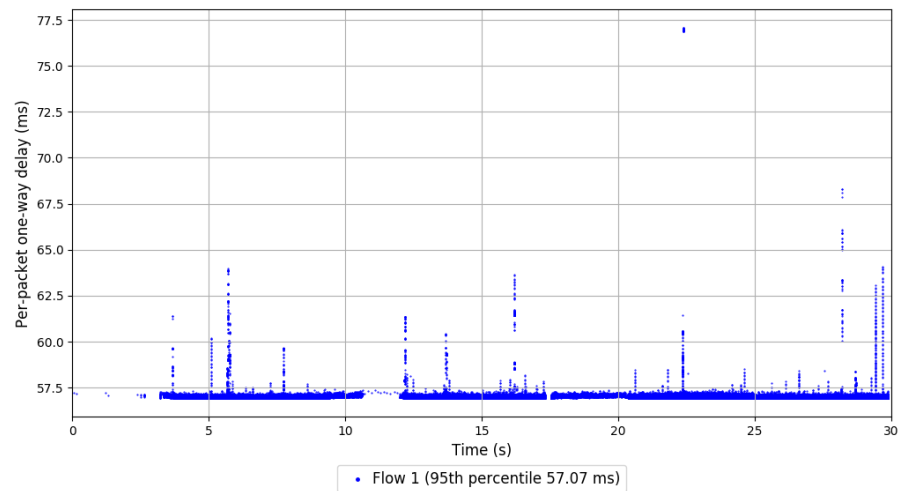
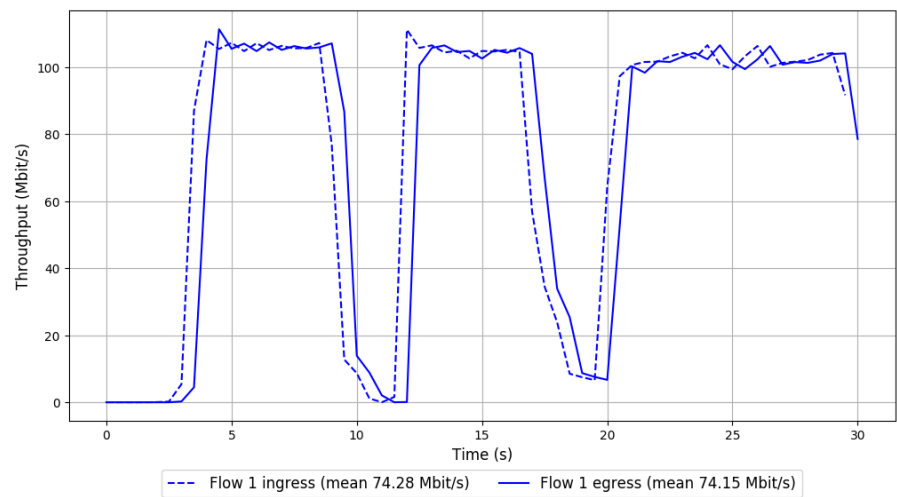
-- Flow 1:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 57.071 ms

Loss rate: 0.56%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-08-27 18:07:57

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

Local clock offset: 0.389 ms

Remote clock offset: 0.232 ms

Below is generated by plot.py at 2019-08-27 20:07:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 57.148 ms

Loss rate: 0.53%

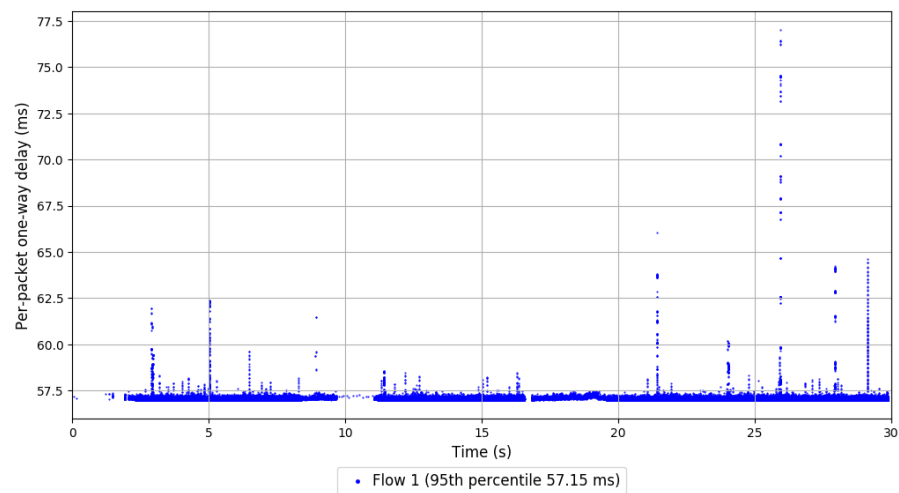
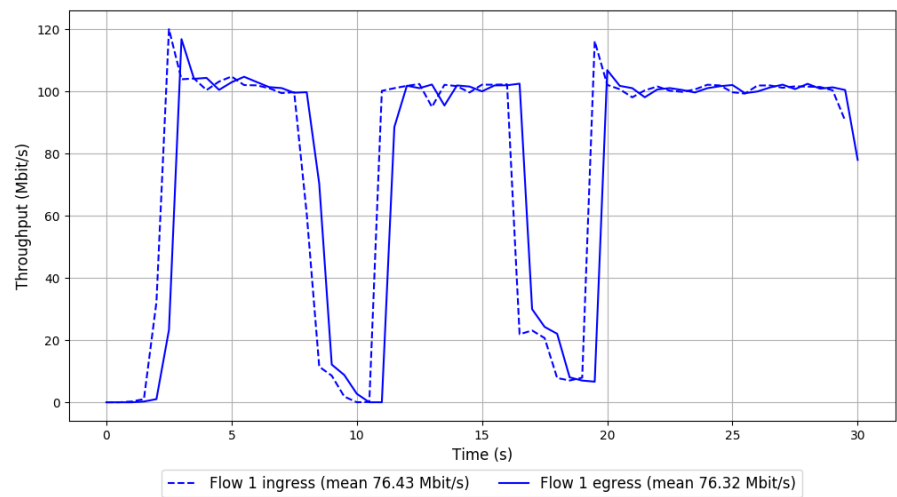
-- Flow 1:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 57.148 ms

Loss rate: 0.53%

Run 5: Report of QUIC Cubic — Data Link

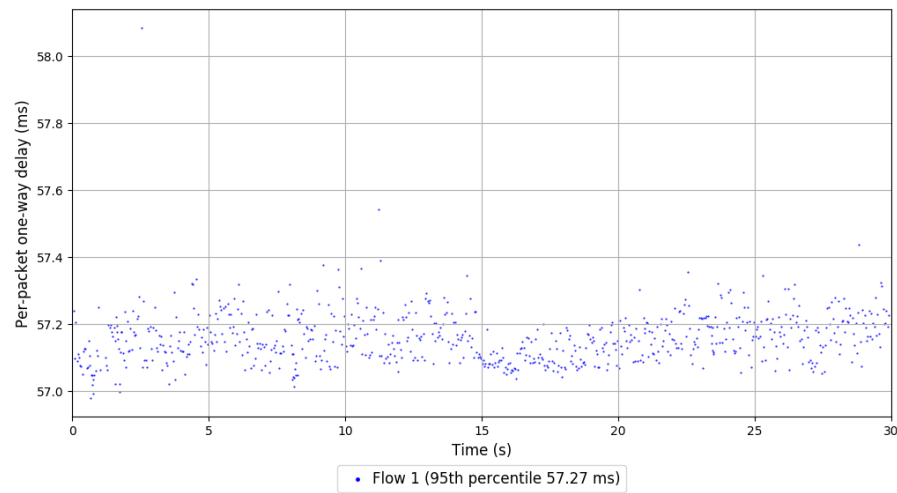
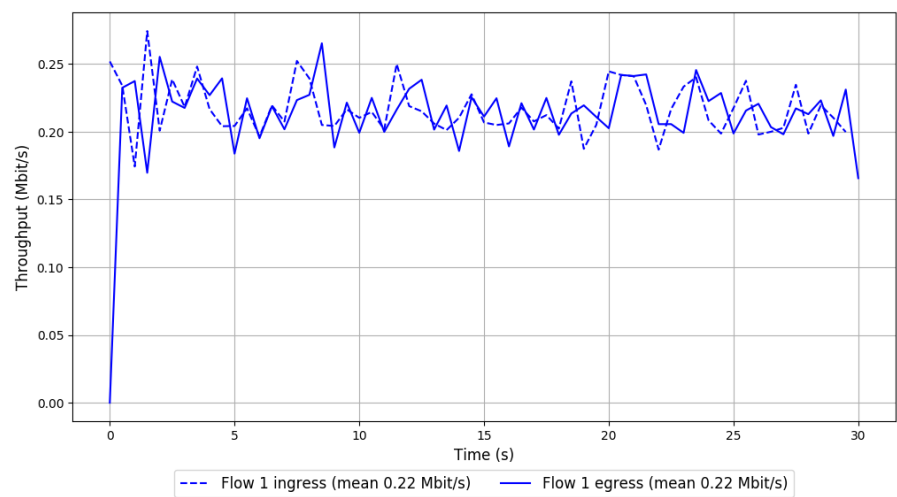


Run 1: Statistics of SCReAM

Start at: 2019-08-27 16:04:39
End at: 2019-08-27 16:05:09
Local clock offset: 0.121 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2019-08-27 20:07:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.275 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.275 ms
Loss rate: 0.39%

Run 1: Report of SReAM — Data Link

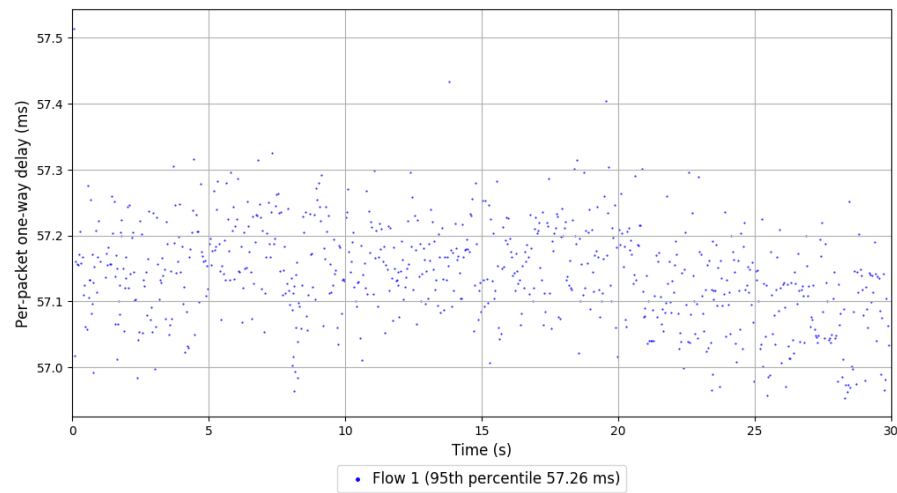
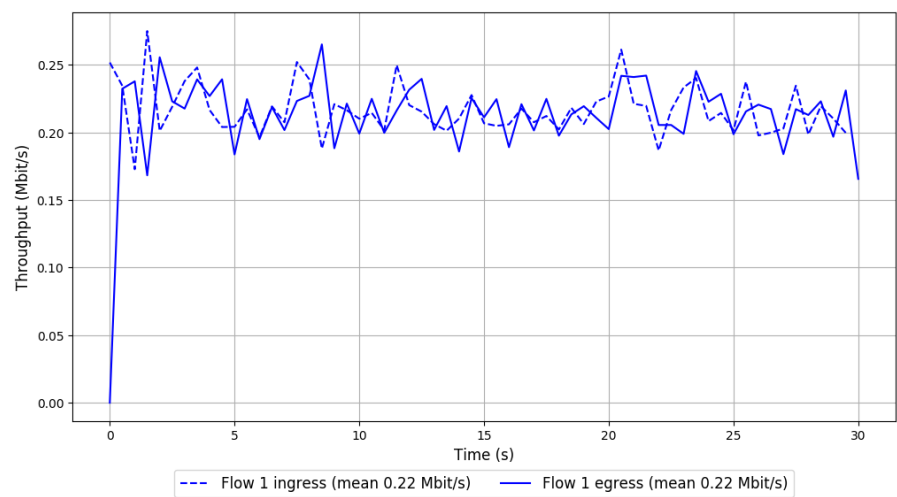


Run 2: Statistics of SCReAM

Start at: 2019-08-27 16:38:46
End at: 2019-08-27 16:39:16
Local clock offset: 0.148 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2019-08-27 20:07:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.258 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.258 ms
Loss rate: 0.39%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-08-27 17:12:54

End at: 2019-08-27 17:13:24

Local clock offset: -0.015 ms

Remote clock offset: 0.39 ms

Below is generated by plot.py at 2019-08-27 20:07:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 56.545 ms

Loss rate: 0.38%

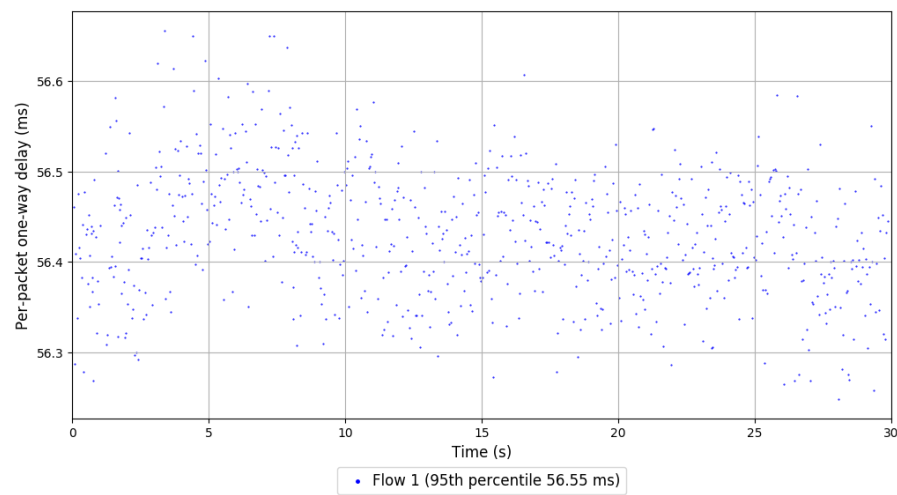
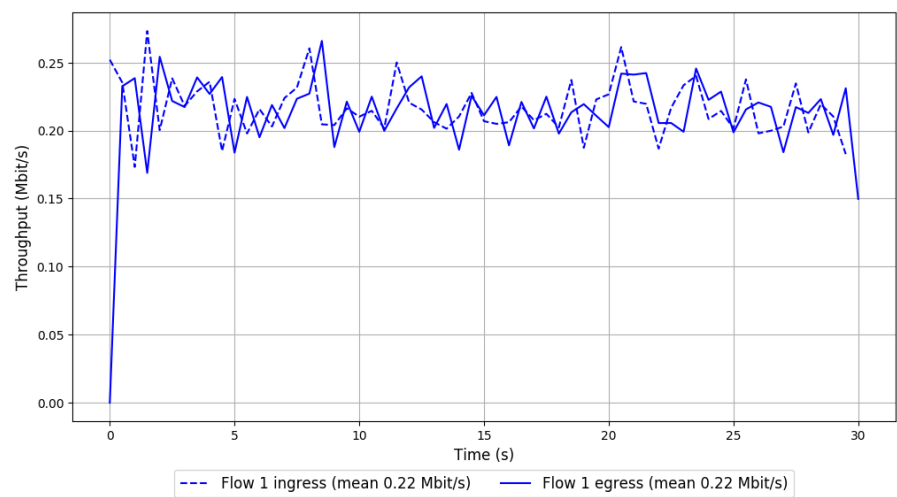
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 56.545 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link

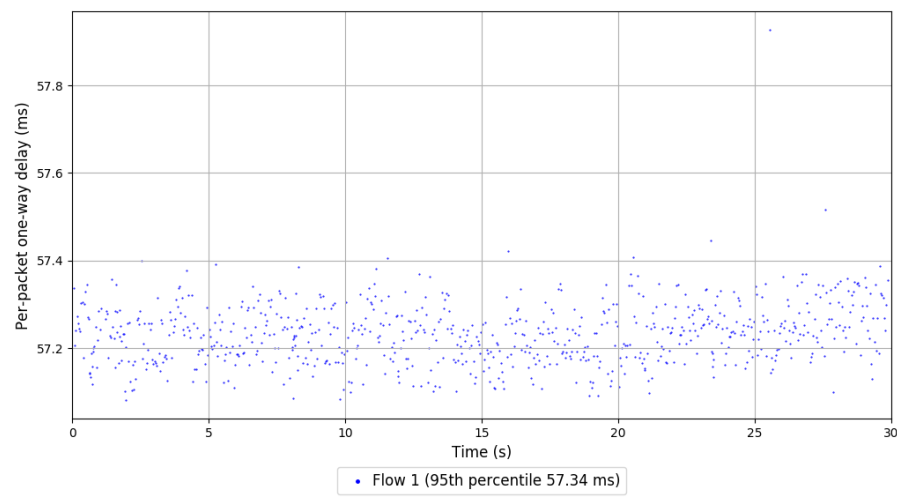
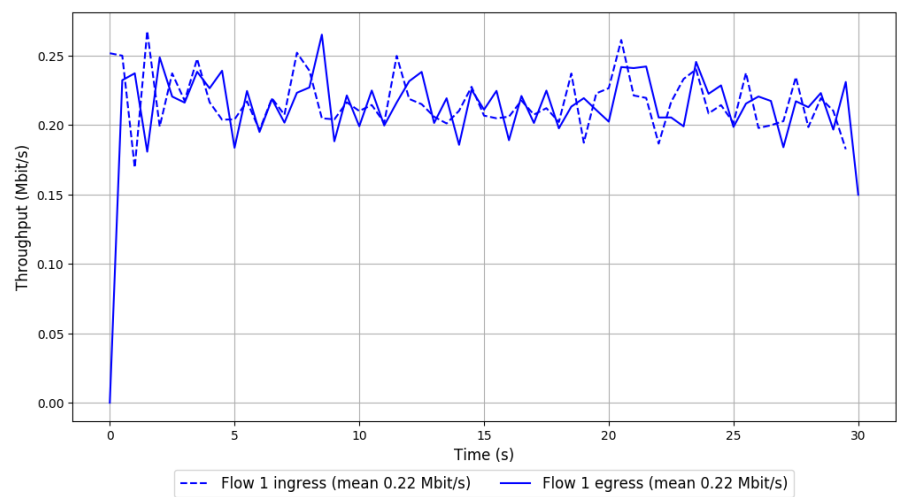


Run 4: Statistics of SCReAM

Start at: 2019-08-27 17:47:04
End at: 2019-08-27 17:47:34
Local clock offset: 0.325 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2019-08-27 20:07:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.344 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.344 ms
Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-08-27 18:21:28

End at: 2019-08-27 18:21:58

Local clock offset: 0.82 ms

Remote clock offset: 0.197 ms

Below is generated by plot.py at 2019-08-27 20:07:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.559 ms

Loss rate: 0.38%

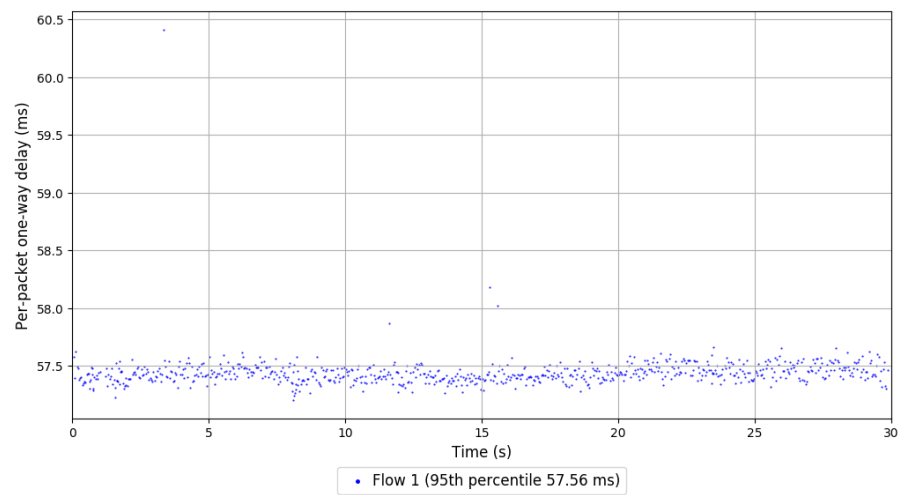
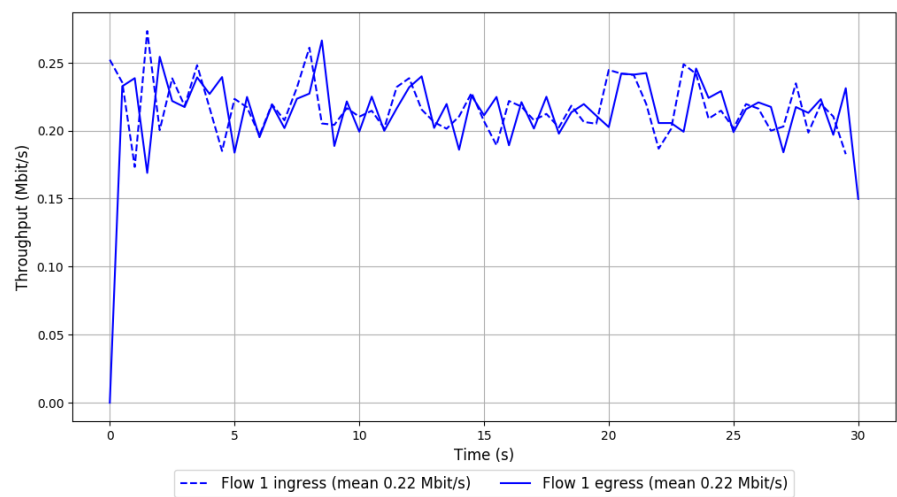
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.559 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link

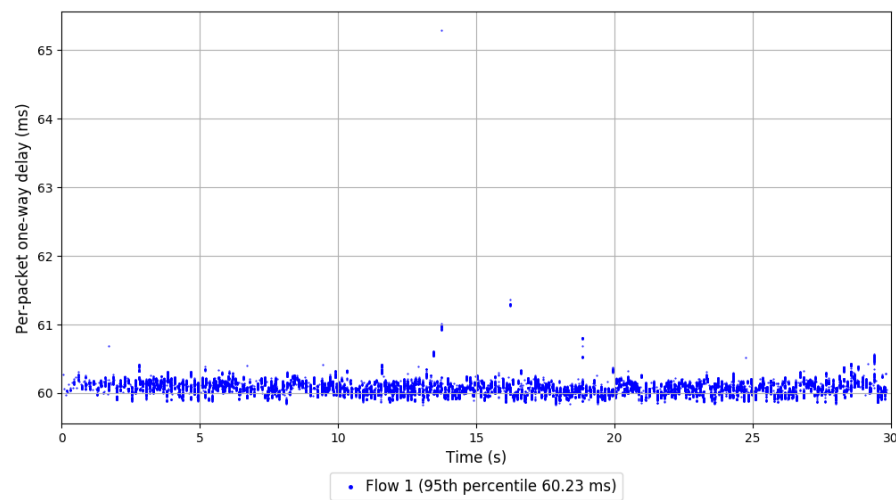
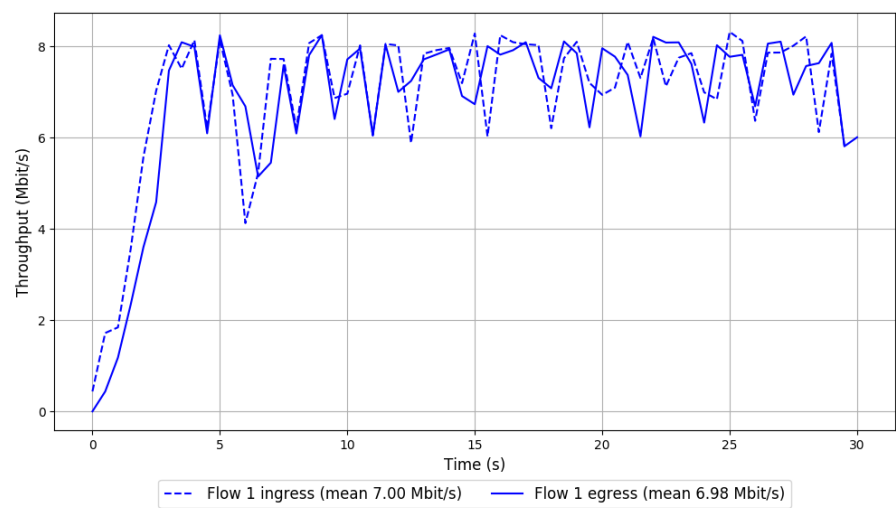


Run 1: Statistics of Sprout

Start at: 2019-08-27 15:47:11
End at: 2019-08-27 15:47:41
Local clock offset: -0.495 ms
Remote clock offset: -0.352 ms

Below is generated by plot.py at 2019-08-27 20:07:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 60.225 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 60.225 ms
Loss rate: 0.45%

Run 1: Report of Sprout — Data Link

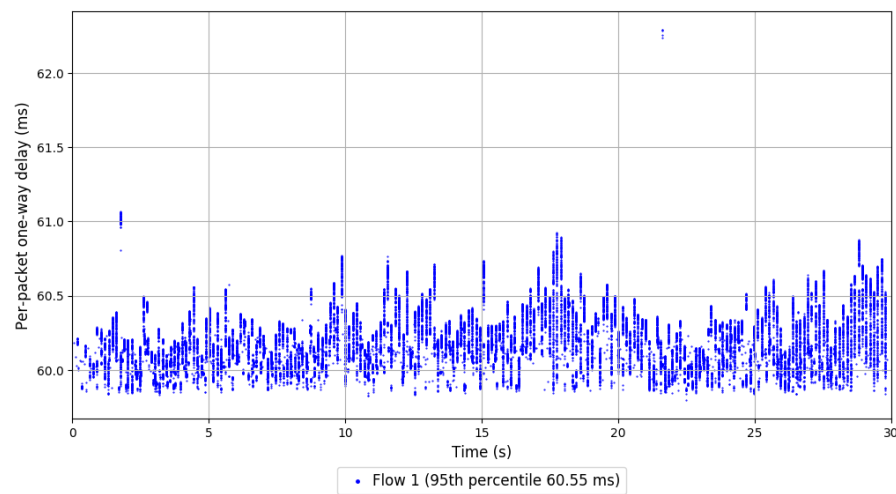
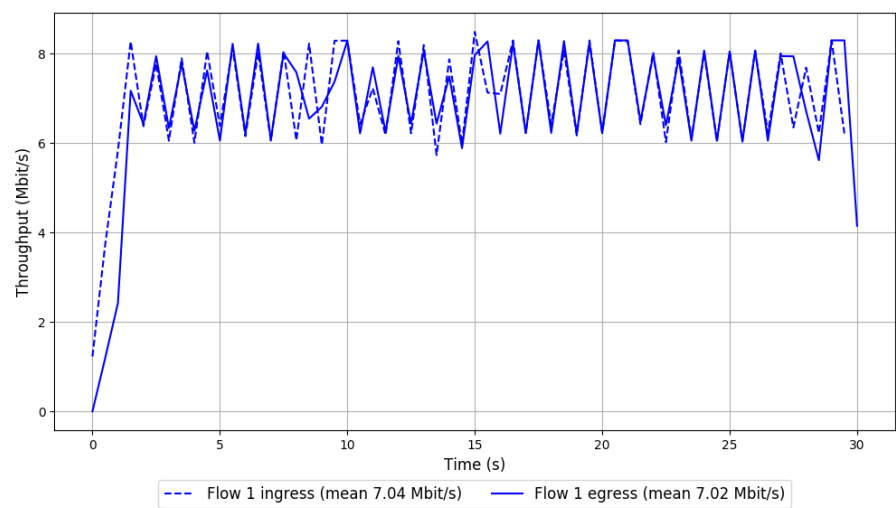


Run 2: Statistics of Sprout

Start at: 2019-08-27 16:21:22
End at: 2019-08-27 16:21:52
Local clock offset: -0.102 ms
Remote clock offset: 0.114 ms

Below is generated by plot.py at 2019-08-27 20:07:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 60.545 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 60.545 ms
Loss rate: 0.49%

Run 2: Report of Sprout — Data Link

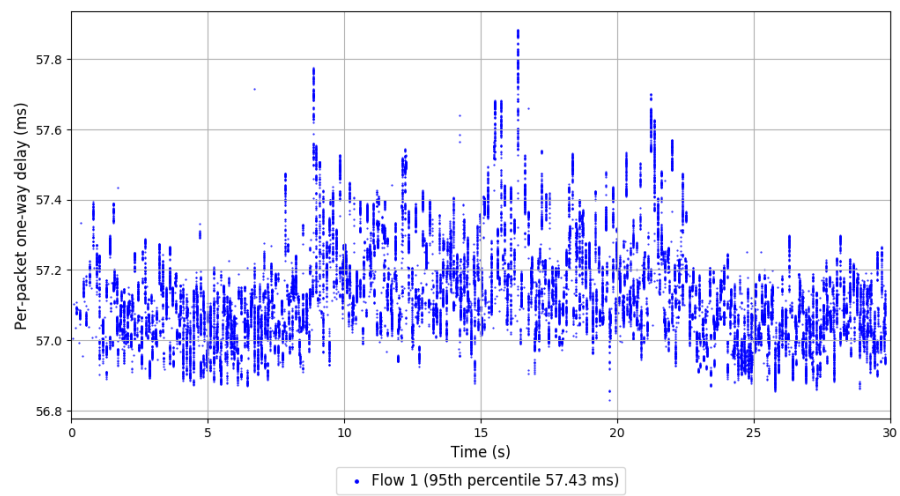
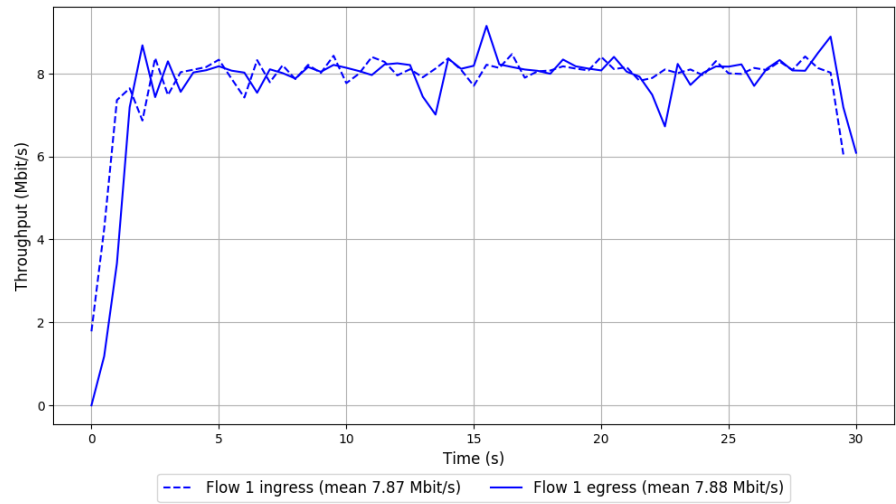


Run 3: Statistics of Sprout

Start at: 2019-08-27 16:55:20
End at: 2019-08-27 16:55:50
Local clock offset: 0.159 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2019-08-27 20:07:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 57.426 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 57.426 ms
Loss rate: 0.42%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-08-27 17:29:39

End at: 2019-08-27 17:30:09

Local clock offset: 0.235 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2019-08-27 20:07:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 57.187 ms

Loss rate: 0.45%

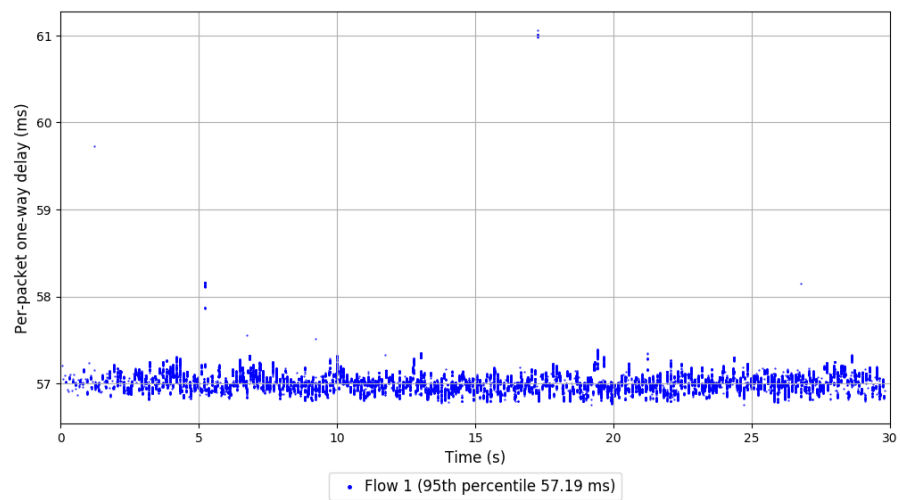
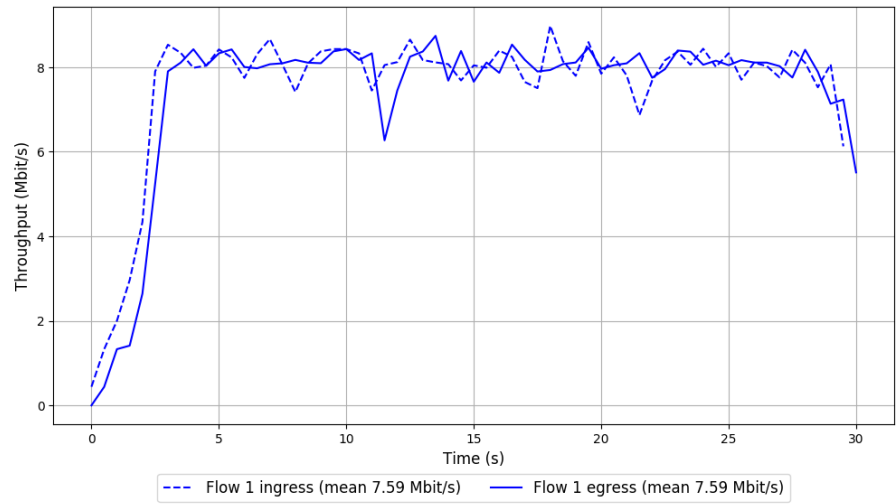
-- Flow 1:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 57.187 ms

Loss rate: 0.45%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-08-27 18:03:46

End at: 2019-08-27 18:04:16

Local clock offset: 0.293 ms

Remote clock offset: 0.209 ms

Below is generated by plot.py at 2019-08-27 20:07:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.23 Mbit/s

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

Loss rate: 0.27%

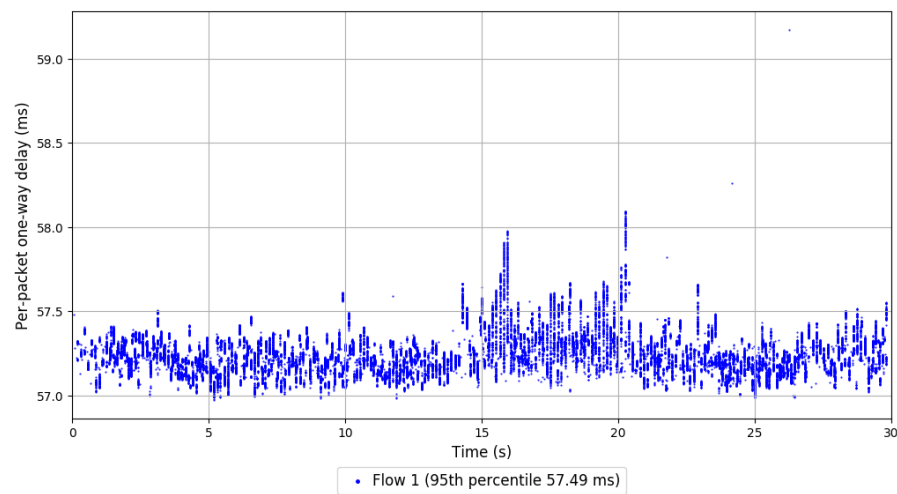
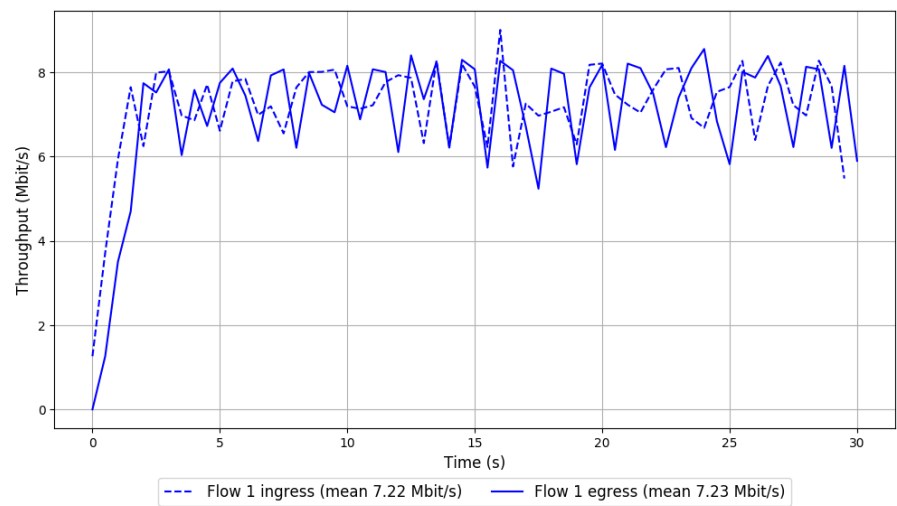
-- Flow 1:

Average throughput: 7.23 Mbit/s

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

Loss rate: 0.27%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-08-27 15:37:22

End at: 2019-08-27 15:37:52

Local clock offset: -0.074 ms

Remote clock offset: -0.47 ms

Below is generated by plot.py at 2019-08-27 20:08:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.18 Mbit/s

95th percentile per-packet one-way delay: 57.172 ms

Loss rate: 0.40%

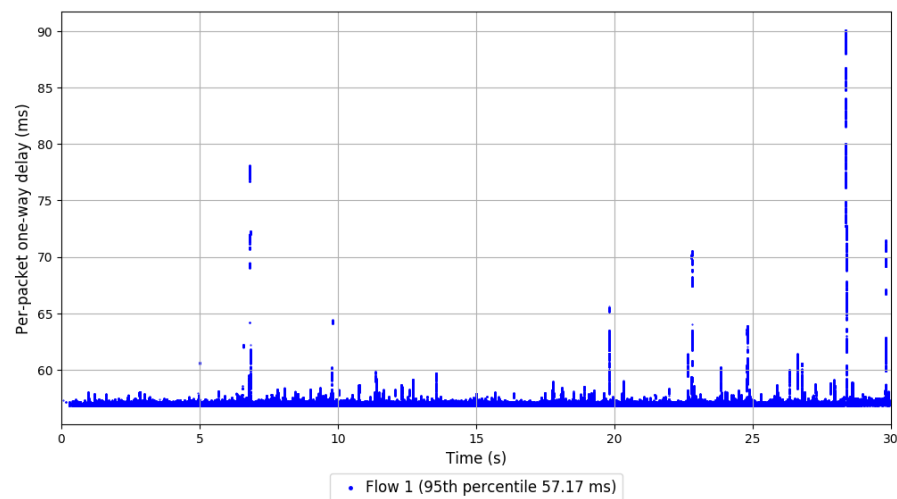
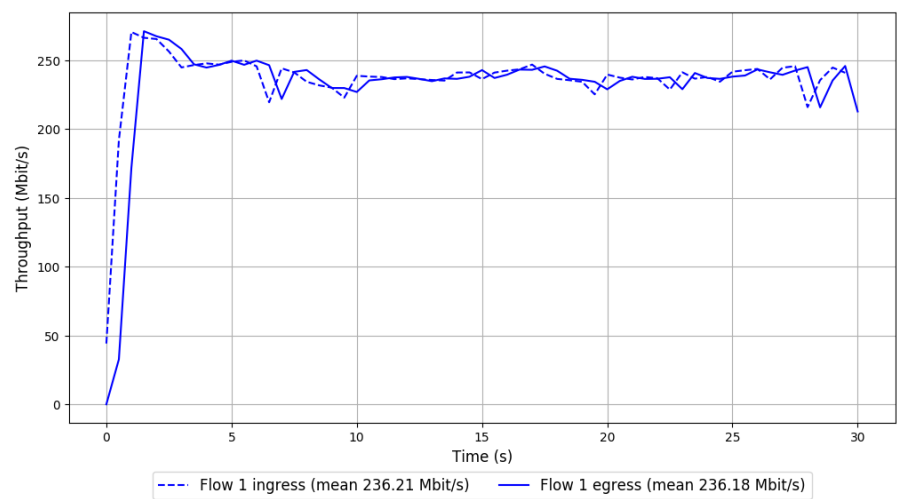
-- Flow 1:

Average throughput: 236.18 Mbit/s

95th percentile per-packet one-way delay: 57.172 ms

Loss rate: 0.40%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-08-27 16:11:29

End at: 2019-08-27 16:11:59

Local clock offset: -0.137 ms

Remote clock offset: 0.82 ms

Below is generated by plot.py at 2019-08-27 20:08:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.15 Mbit/s

95th percentile per-packet one-way delay: 59.370 ms

Loss rate: 0.42%

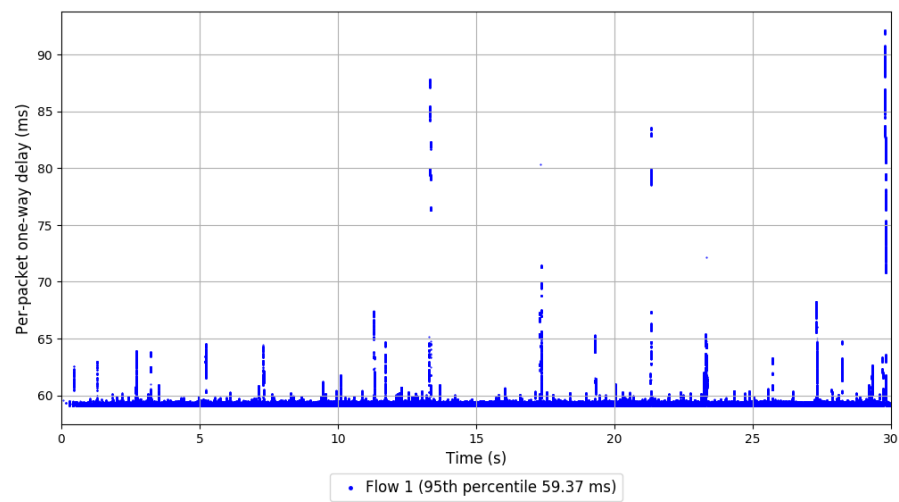
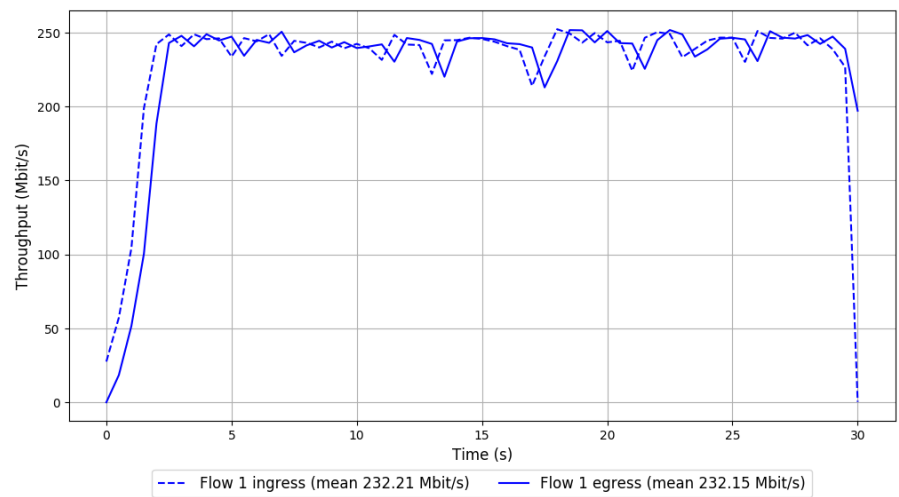
-- Flow 1:

Average throughput: 232.15 Mbit/s

95th percentile per-packet one-way delay: 59.370 ms

Loss rate: 0.42%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-08-27 16:45:34

End at: 2019-08-27 16:46:04

Local clock offset: -0.097 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2019-08-27 20:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.86 Mbit/s

95th percentile per-packet one-way delay: 56.966 ms

Loss rate: 0.38%

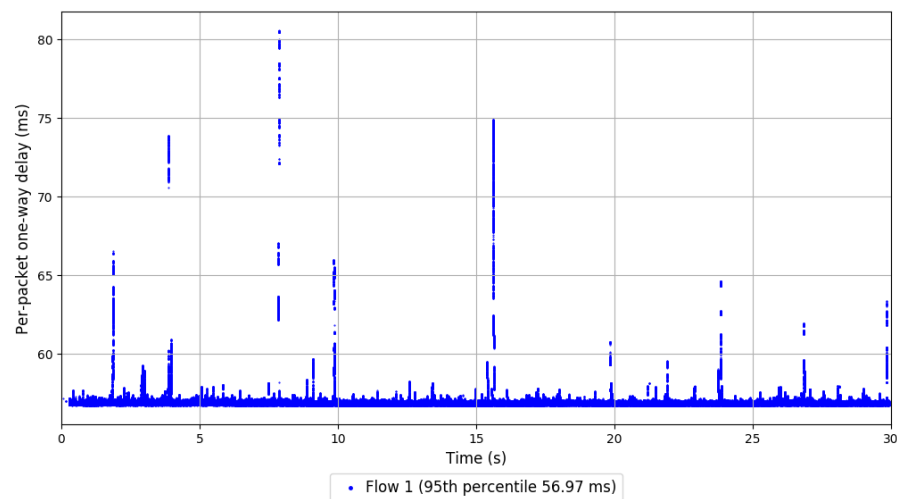
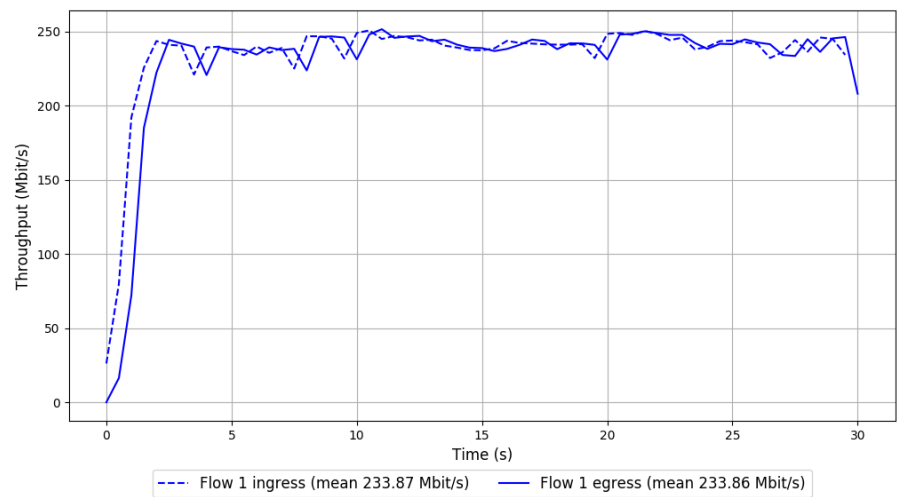
-- Flow 1:

Average throughput: 233.86 Mbit/s

95th percentile per-packet one-way delay: 56.966 ms

Loss rate: 0.38%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-08-27 17:19:43

End at: 2019-08-27 17:20:13

Local clock offset: 0.478 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2019-08-27 20:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.74 Mbit/s

95th percentile per-packet one-way delay: 57.291 ms

Loss rate: 0.39%

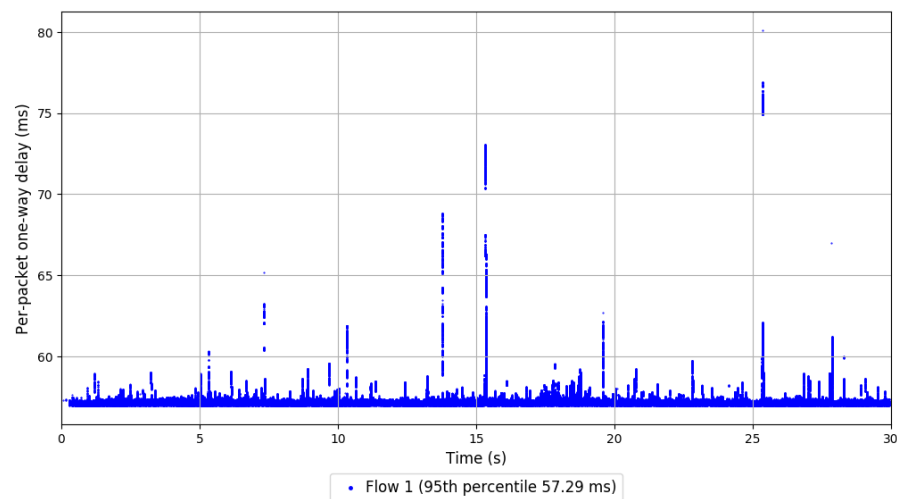
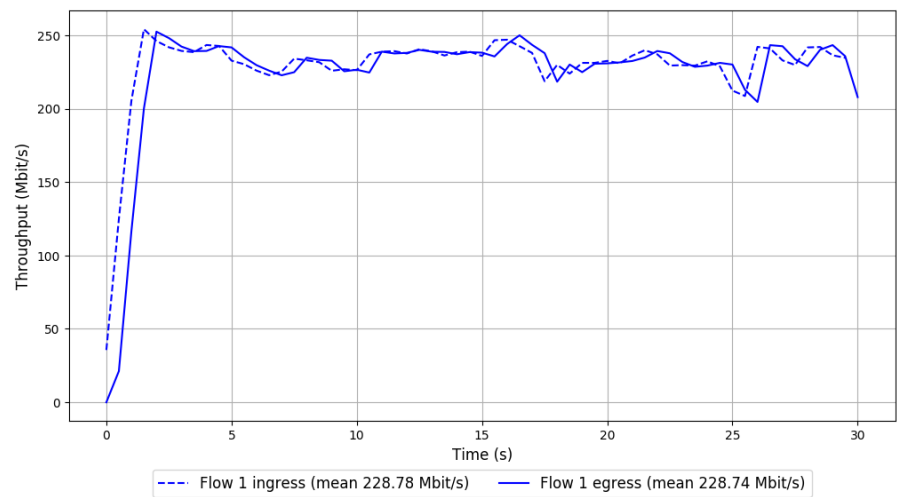
-- Flow 1:

Average throughput: 228.74 Mbit/s

95th percentile per-packet one-way delay: 57.291 ms

Loss rate: 0.39%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-08-27 17:53:55

End at: 2019-08-27 17:54:25

Local clock offset: 0.343 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2019-08-27 20:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.60 Mbit/s

95th percentile per-packet one-way delay: 57.068 ms

Loss rate: 0.42%

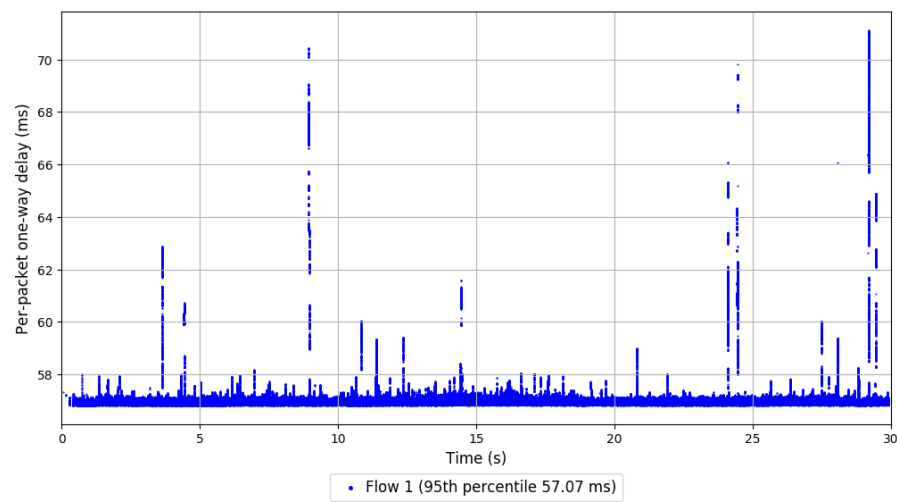
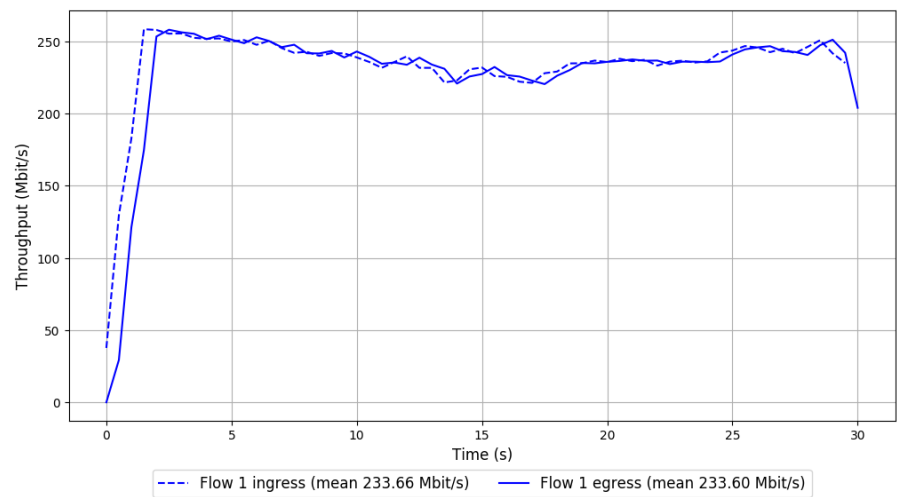
-- Flow 1:

Average throughput: 233.60 Mbit/s

95th percentile per-packet one-way delay: 57.068 ms

Loss rate: 0.42%

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

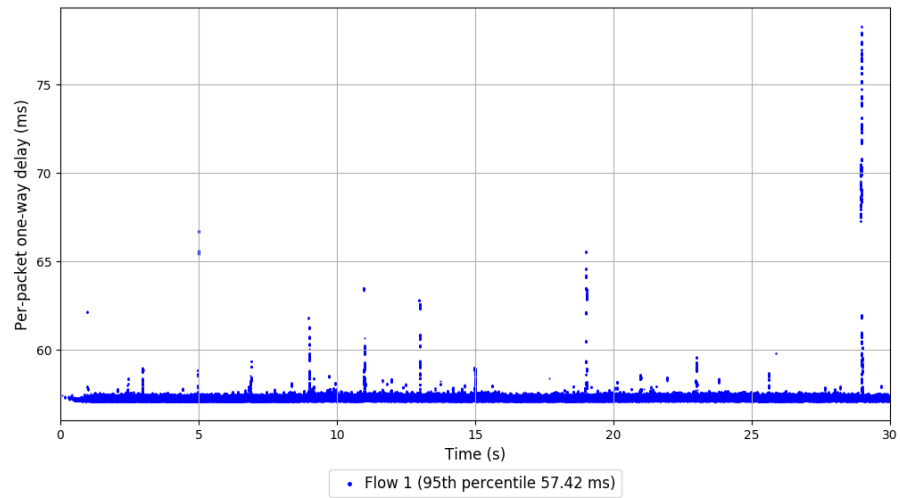
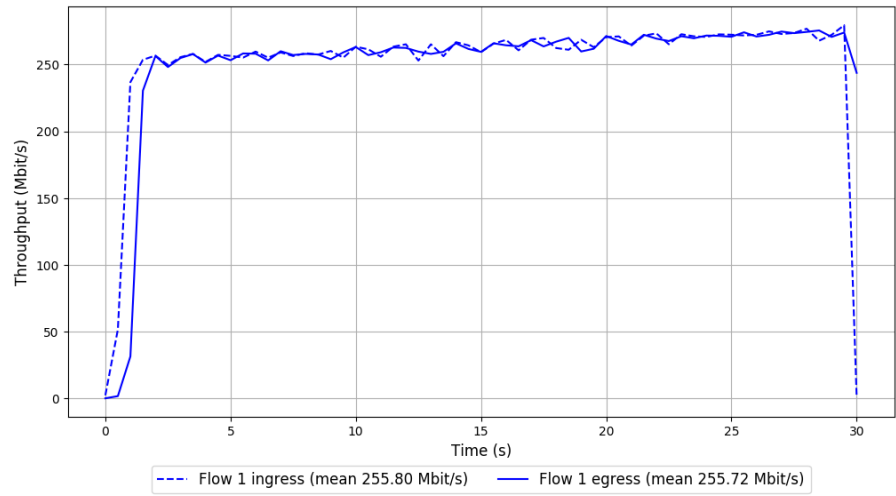


Run 1: Statistics of TCP Vegas

Start at: 2019-08-27 15:57:10
End at: 2019-08-27 15:57:40
Local clock offset: -0.286 ms
Remote clock offset: -0.409 ms

Below is generated by plot.py at 2019-08-27 20:08:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 255.72 Mbit/s
95th percentile per-packet one-way delay: 57.425 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 255.72 Mbit/s
95th percentile per-packet one-way delay: 57.425 ms
Loss rate: 0.41%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-08-27 16:31:09

End at: 2019-08-27 16:31:39

Local clock offset: -0.17 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2019-08-27 20:11:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 467.87 Mbit/s

95th percentile per-packet one-way delay: 61.024 ms

Loss rate: 0.39%

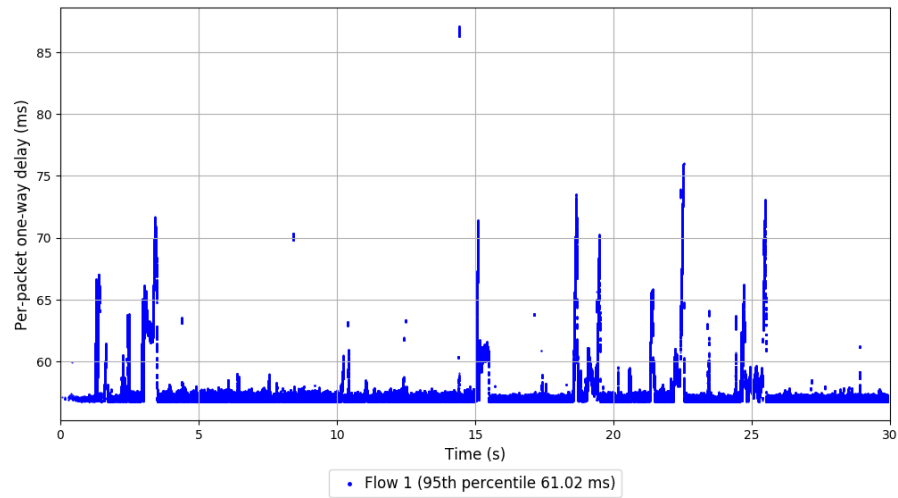
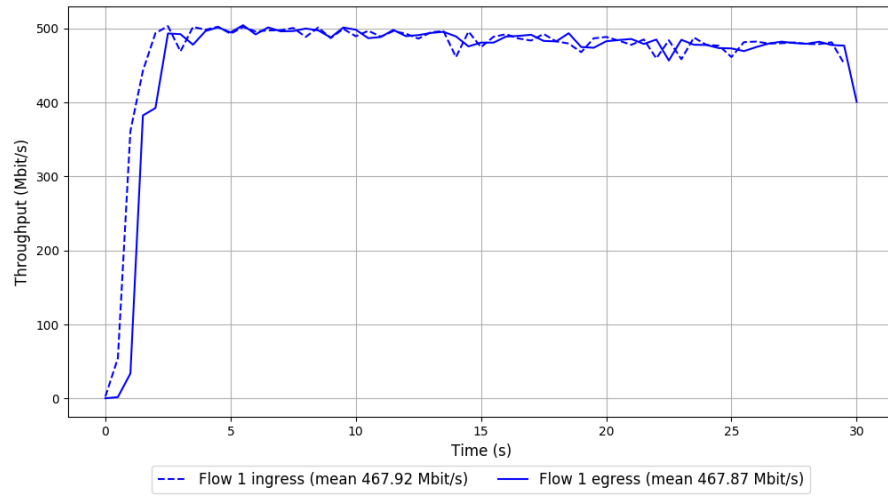
-- Flow 1:

Average throughput: 467.87 Mbit/s

95th percentile per-packet one-way delay: 61.024 ms

Loss rate: 0.39%

Run 2: Report of TCP Vegas — Data Link

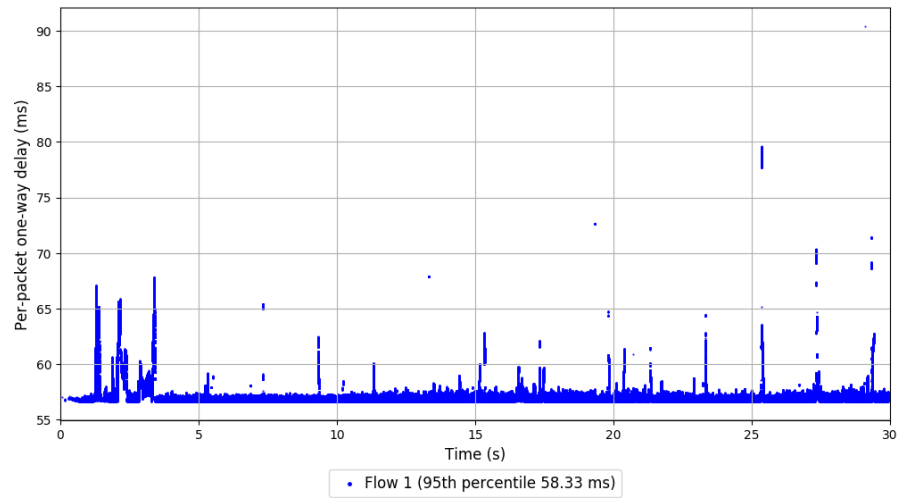
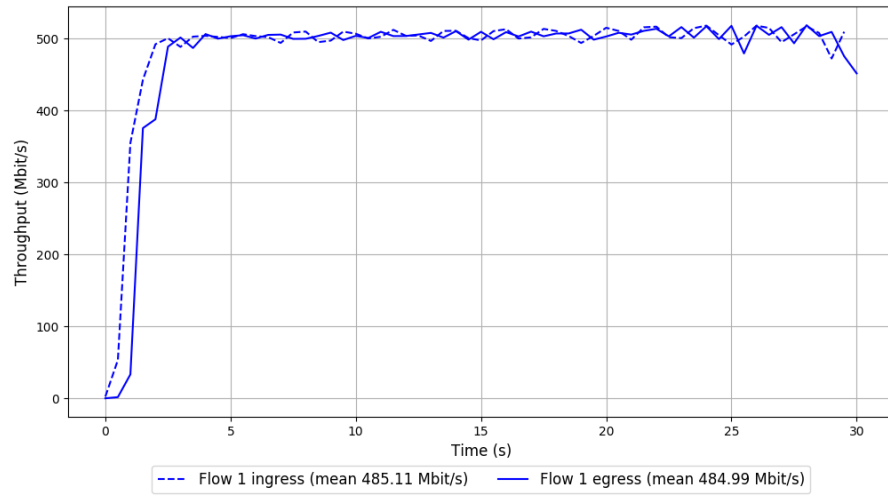


Run 3: Statistics of TCP Vegas

Start at: 2019-08-27 17:05:16
End at: 2019-08-27 17:05:46
Local clock offset: 0.046 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2019-08-27 20:14:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 484.99 Mbit/s
95th percentile per-packet one-way delay: 58.332 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 484.99 Mbit/s
95th percentile per-packet one-way delay: 58.332 ms
Loss rate: 0.41%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-08-27 17:39:38

End at: 2019-08-27 17:40:08

Local clock offset: 0.662 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2019-08-27 20:14:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 472.66 Mbit/s

95th percentile per-packet one-way delay: 58.342 ms

Loss rate: 0.39%

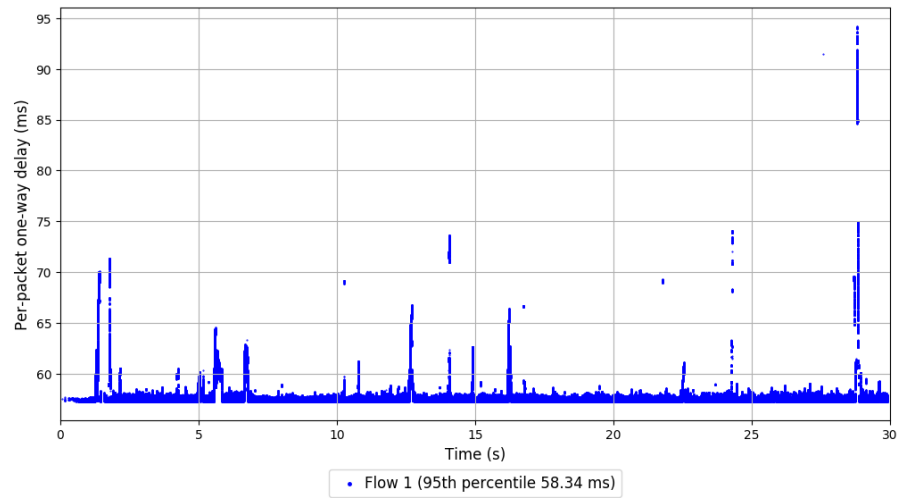
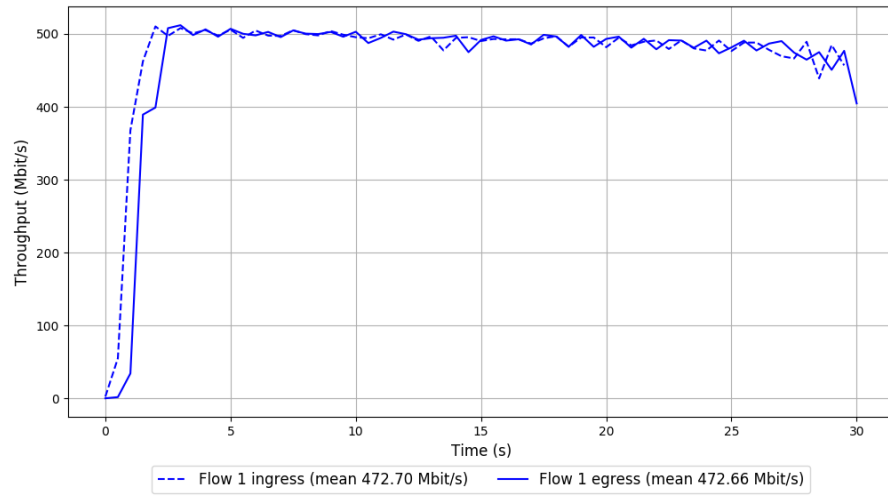
-- Flow 1:

Average throughput: 472.66 Mbit/s

95th percentile per-packet one-way delay: 58.342 ms

Loss rate: 0.39%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-08-27 18:13:45

End at: 2019-08-27 18:14:15

Local clock offset: 0.134 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2019-08-27 20:15:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.75 Mbit/s

95th percentile per-packet one-way delay: 57.264 ms

Loss rate: 0.39%

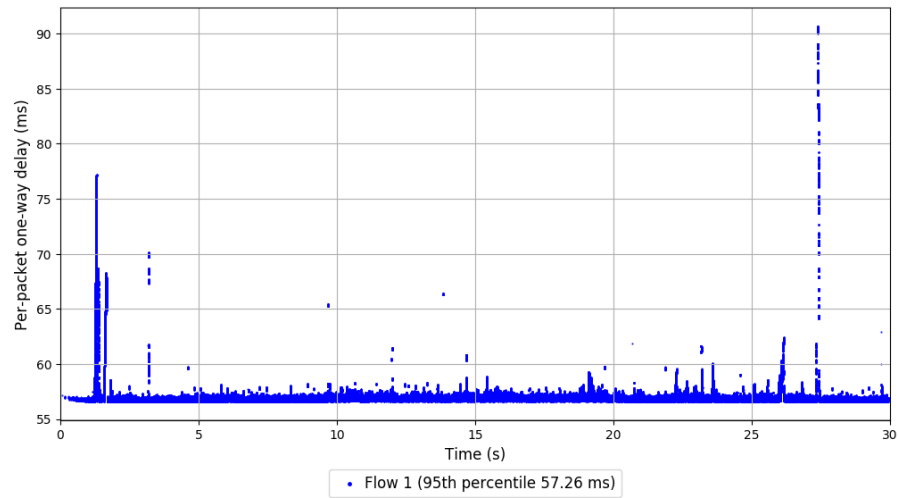
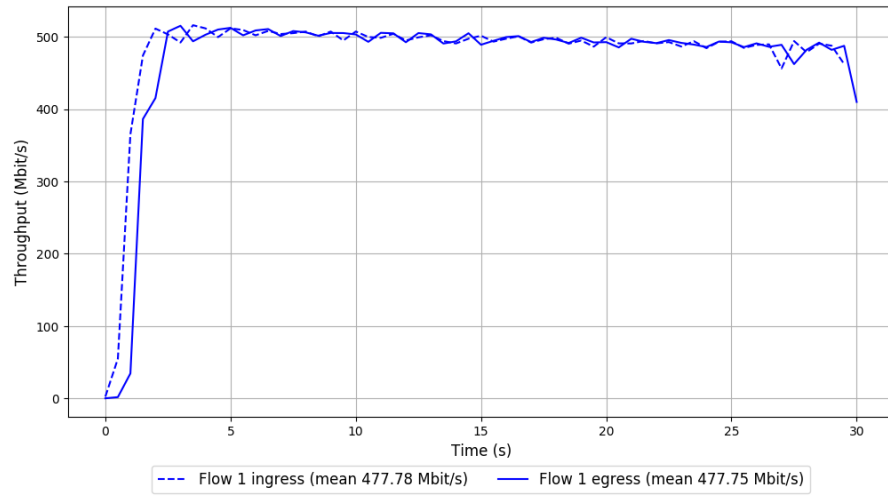
-- Flow 1:

Average throughput: 477.75 Mbit/s

95th percentile per-packet one-way delay: 57.264 ms

Loss rate: 0.39%

Run 5: Report of TCP Vegas — Data Link

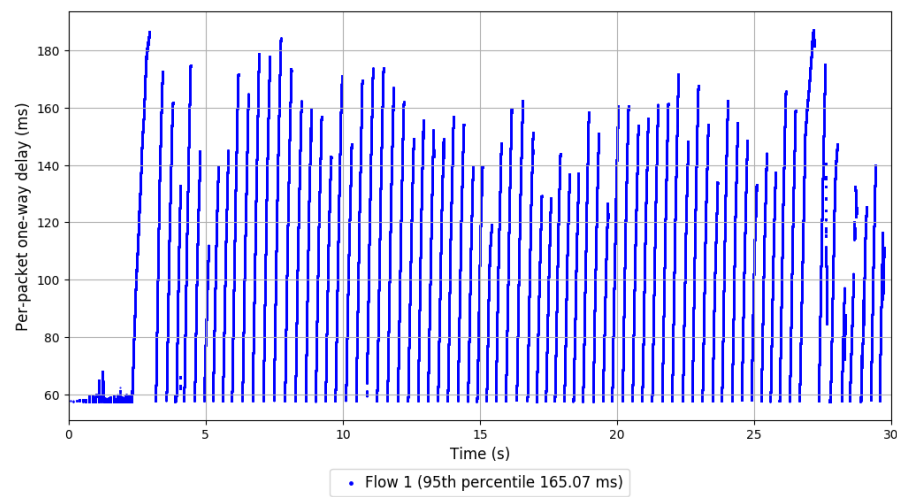
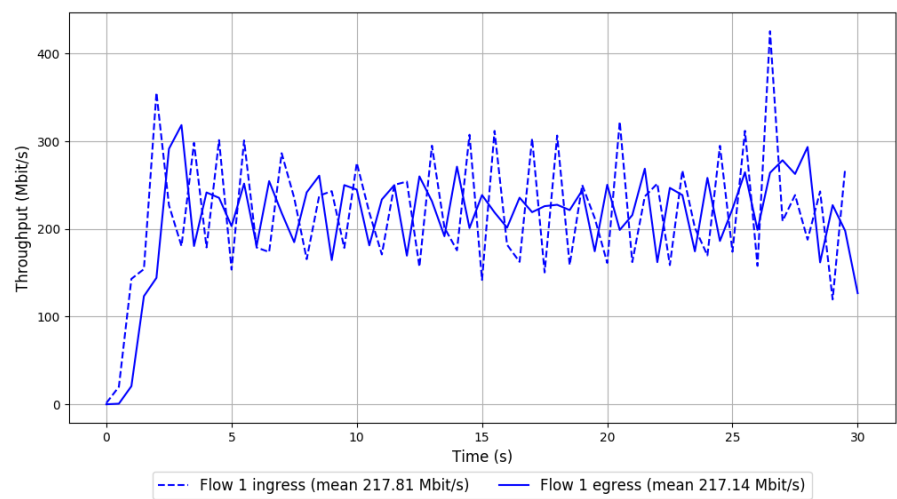


Run 1: Statistics of Verus

Start at: 2019-08-27 15:44:20
End at: 2019-08-27 15:44:50
Local clock offset: 0.233 ms
Remote clock offset: -0.408 ms

Below is generated by plot.py at 2019-08-27 20:15:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.14 Mbit/s
95th percentile per-packet one-way delay: 165.072 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 217.14 Mbit/s
95th percentile per-packet one-way delay: 165.072 ms
Loss rate: 1.18%

Run 1: Report of Verus — Data Link

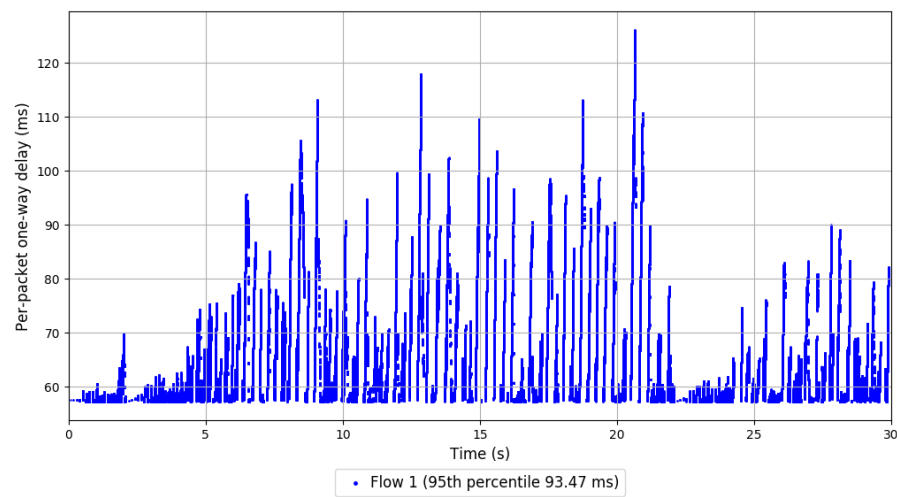
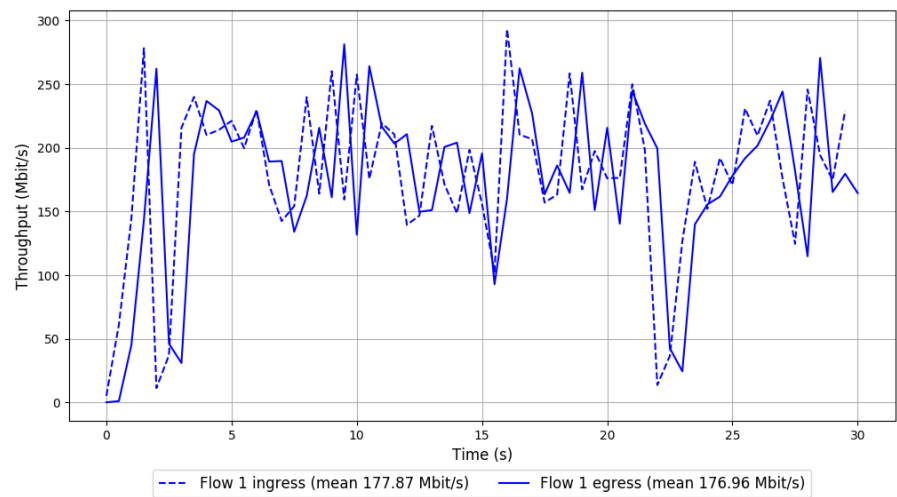


Run 2: Statistics of Verus

Start at: 2019-08-27 16:18:34
End at: 2019-08-27 16:19:04
Local clock offset: 0.491 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2019-08-27 20:15:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 176.96 Mbit/s
95th percentile per-packet one-way delay: 93.468 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 176.96 Mbit/s
95th percentile per-packet one-way delay: 93.468 ms
Loss rate: 0.89%

Run 2: Report of Verus — Data Link

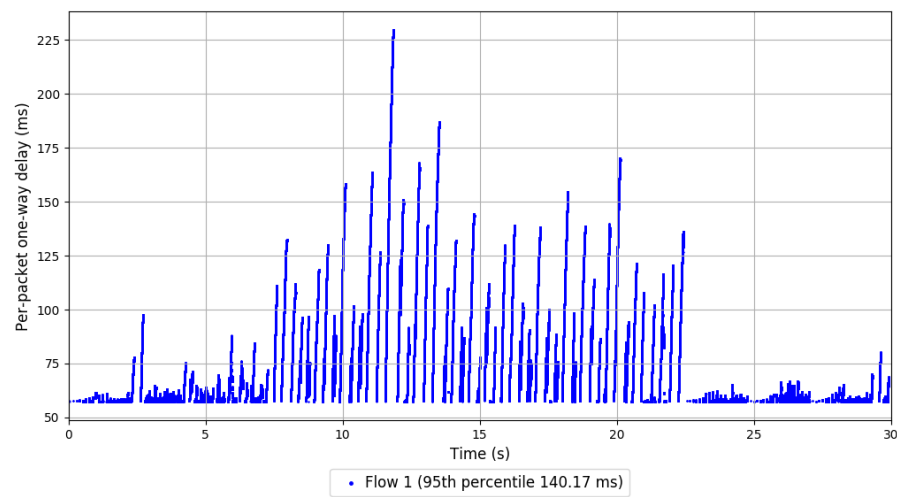
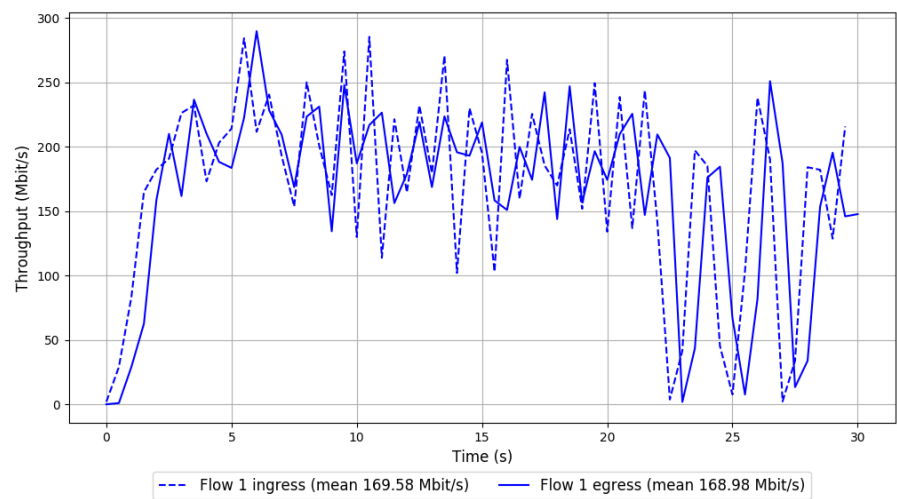


Run 3: Statistics of Verus

Start at: 2019-08-27 16:52:37
End at: 2019-08-27 16:53:07
Local clock offset: 0.088 ms
Remote clock offset: -0.249 ms

Below is generated by plot.py at 2019-08-27 20:15:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 168.98 Mbit/s
95th percentile per-packet one-way delay: 140.167 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 168.98 Mbit/s
95th percentile per-packet one-way delay: 140.167 ms
Loss rate: 0.74%

Run 3: Report of Verus — Data Link

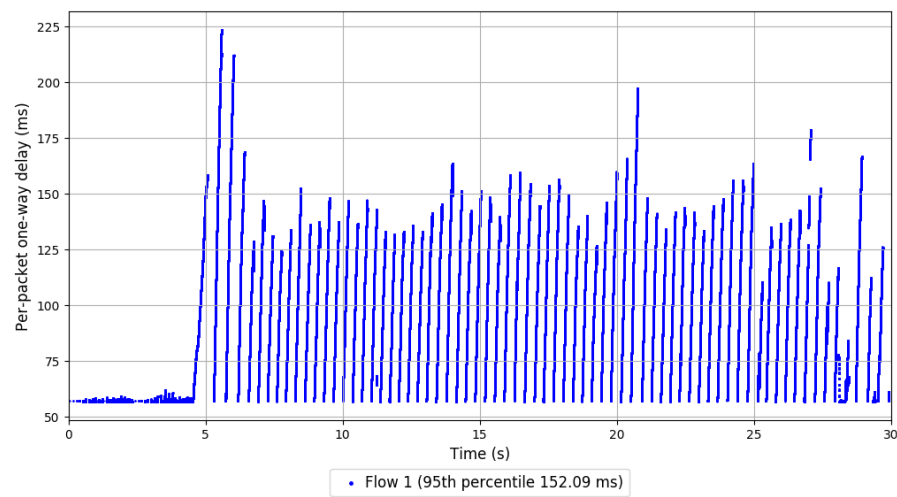
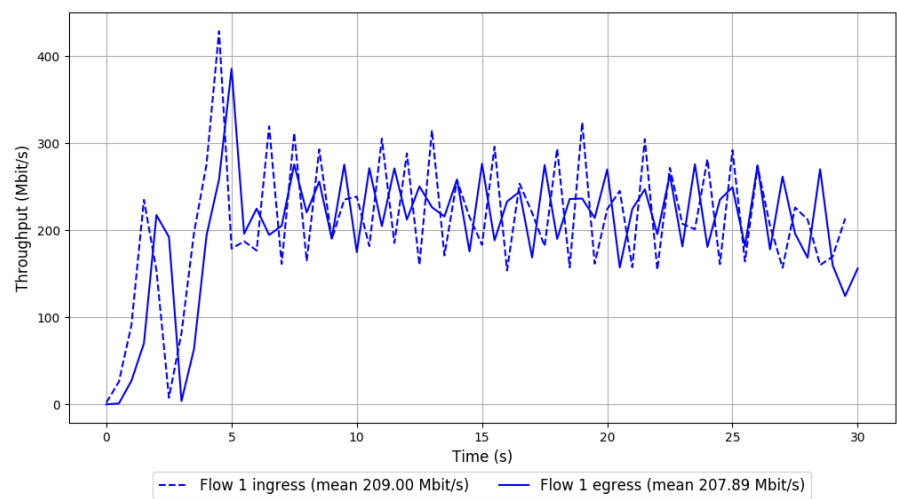


Run 4: Statistics of Verus

Start at: 2019-08-27 17:26:49
End at: 2019-08-27 17:27:19
Local clock offset: 0.106 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2019-08-27 20:15:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 207.89 Mbit/s
95th percentile per-packet one-way delay: 152.085 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 207.89 Mbit/s
95th percentile per-packet one-way delay: 152.085 ms
Loss rate: 0.92%

Run 4: Report of Verus — Data Link

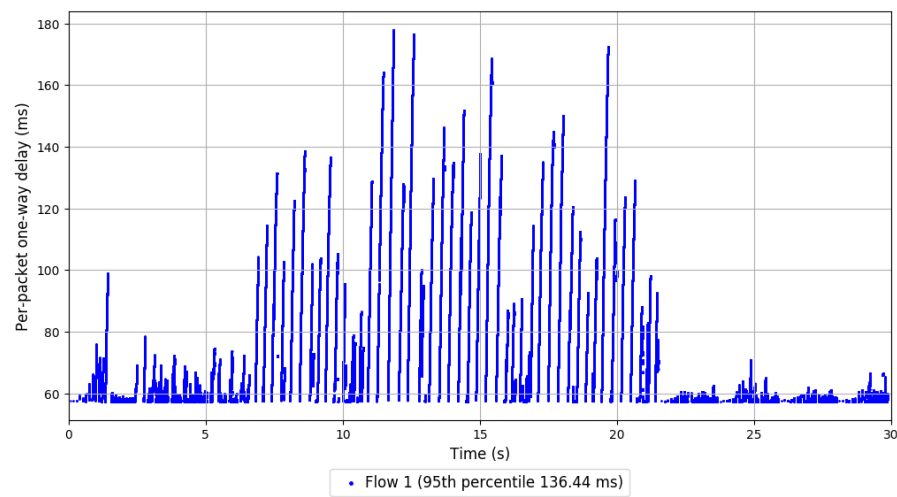
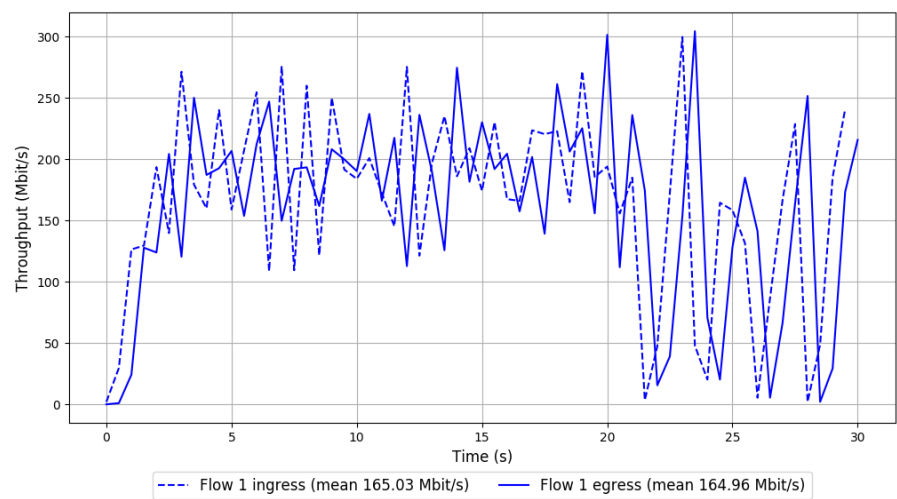


Run 5: Statistics of Verus

Start at: 2019-08-27 18:01:00
End at: 2019-08-27 18:01:30
Local clock offset: 0.305 ms
Remote clock offset: -0.371 ms

Below is generated by plot.py at 2019-08-27 20:16:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 164.96 Mbit/s
95th percentile per-packet one-way delay: 136.441 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 164.96 Mbit/s
95th percentile per-packet one-way delay: 136.441 ms
Loss rate: 0.57%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-08-27 15:42:56

End at: 2019-08-27 15:43:26

Local clock offset: 0.101 ms

Remote clock offset: -0.399 ms

Below is generated by plot.py at 2019-08-27 20:16:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.42 Mbit/s

95th percentile per-packet one-way delay: 59.011 ms

Loss rate: 0.45%

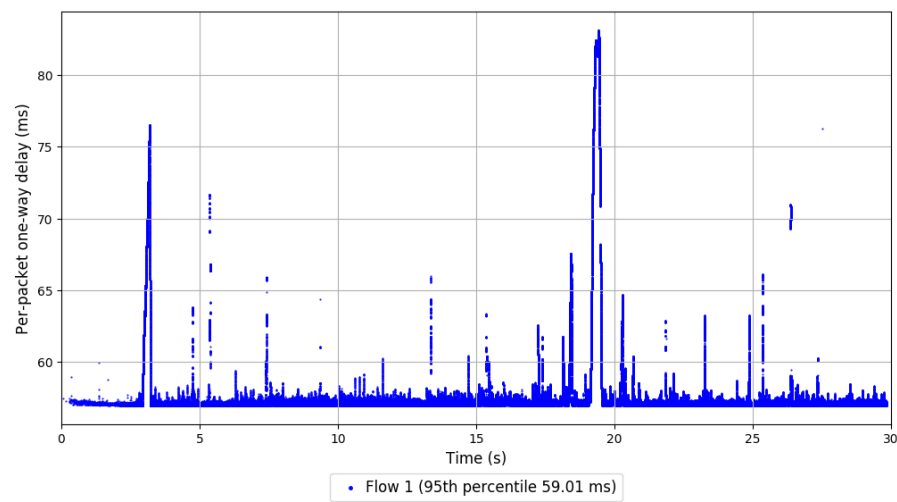
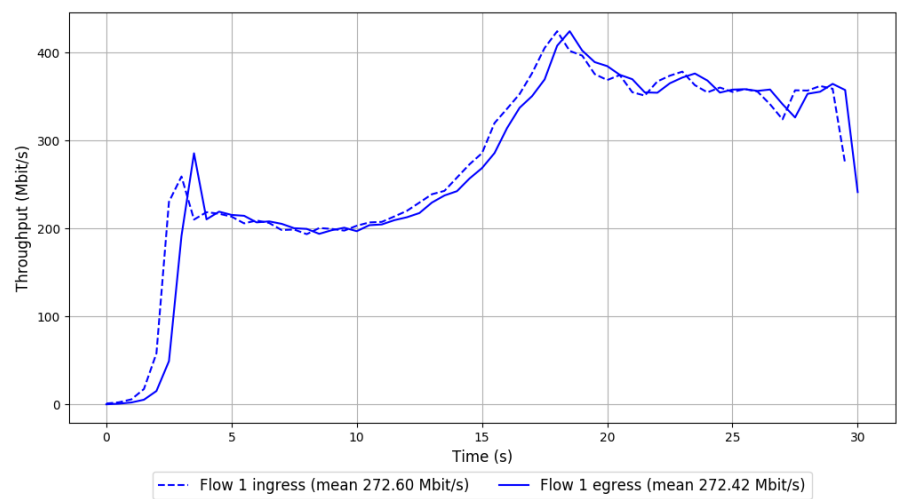
-- Flow 1:

Average throughput: 272.42 Mbit/s

95th percentile per-packet one-way delay: 59.011 ms

Loss rate: 0.45%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-08-27 16:17:06

End at: 2019-08-27 16:17:36

Local clock offset: 0.286 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2019-08-27 20:17:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.17 Mbit/s

95th percentile per-packet one-way delay: 66.945 ms

Loss rate: 0.36%

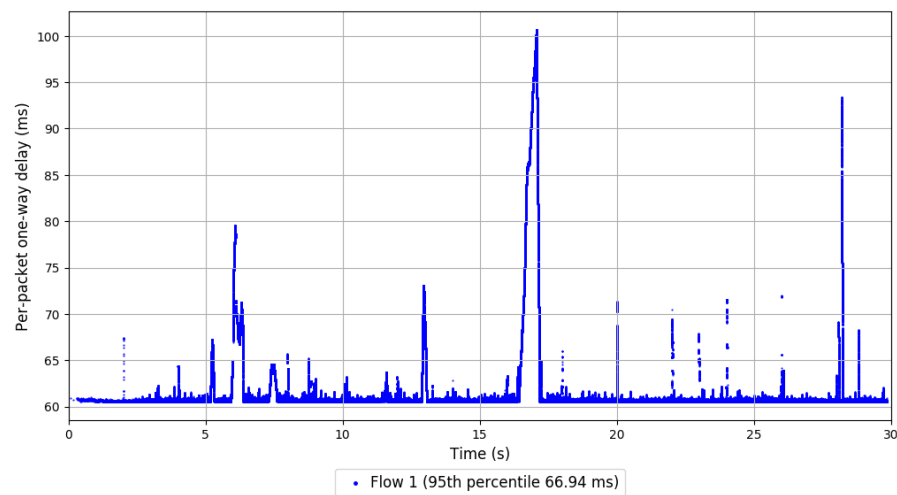
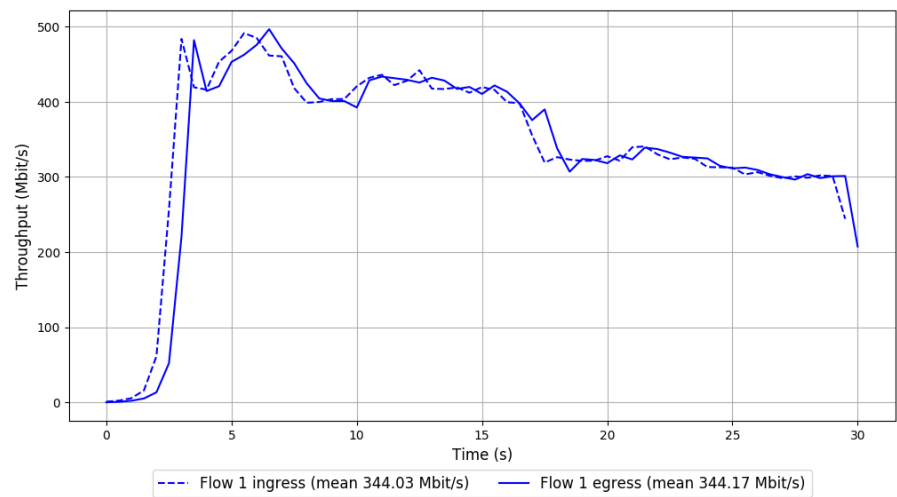
-- Flow 1:

Average throughput: 344.17 Mbit/s

95th percentile per-packet one-way delay: 66.945 ms

Loss rate: 0.36%

Run 2: Report of PCC-Vivace — Data Link

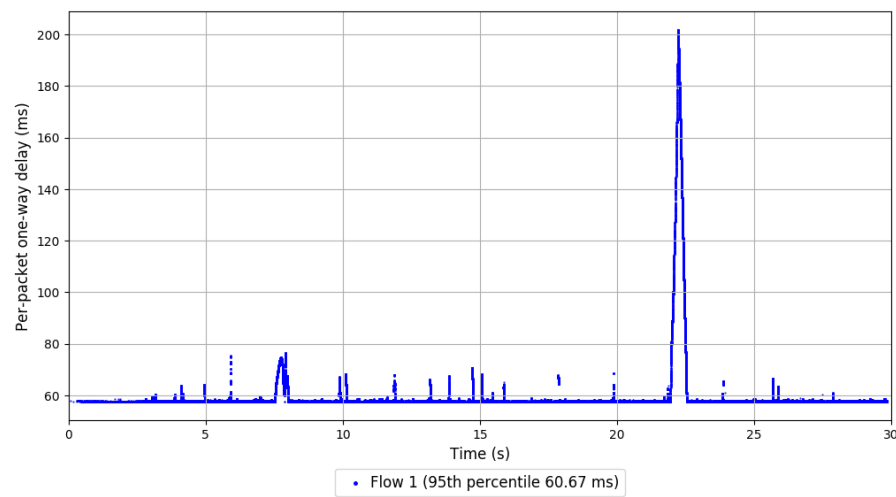
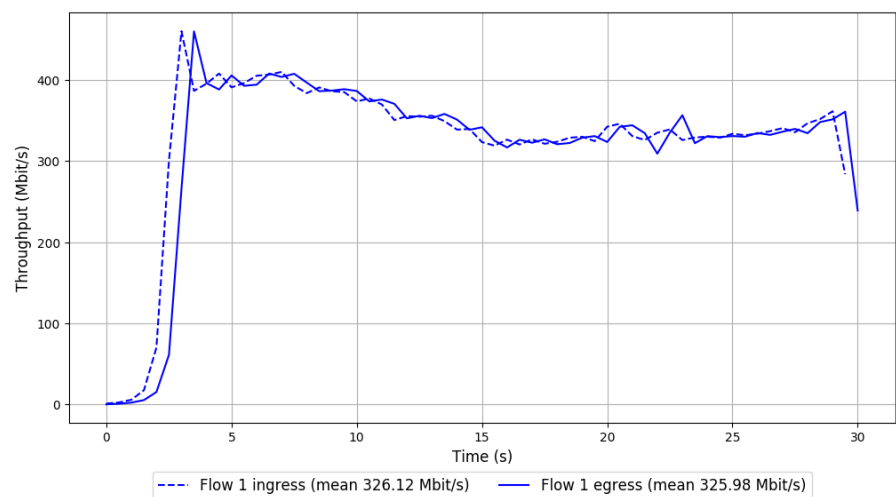


Run 3: Statistics of PCC-Vivace

Start at: 2019-08-27 16:51:10
End at: 2019-08-27 16:51:40
Local clock offset: 0.355 ms
Remote clock offset: -0.643 ms

Below is generated by plot.py at 2019-08-27 20:17:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 325.98 Mbit/s
95th percentile per-packet one-way delay: 60.674 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 325.98 Mbit/s
95th percentile per-packet one-way delay: 60.674 ms
Loss rate: 0.44%

Run 3: Report of PCC-Vivace — Data Link

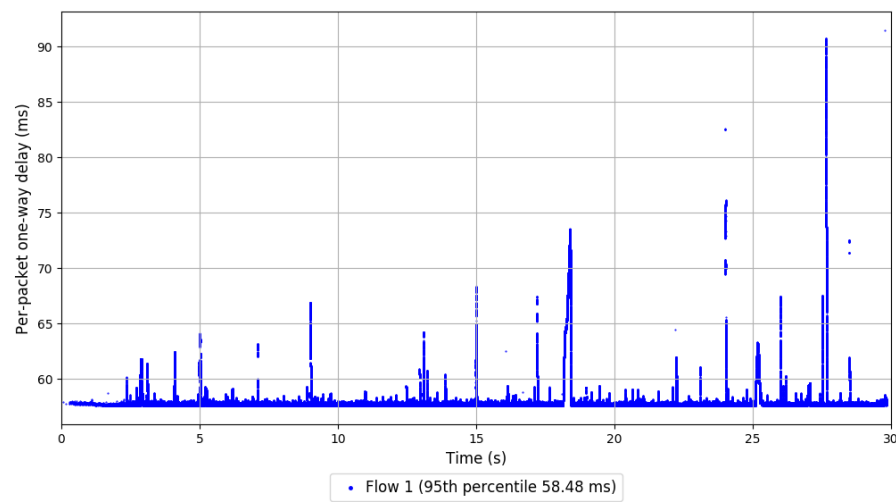
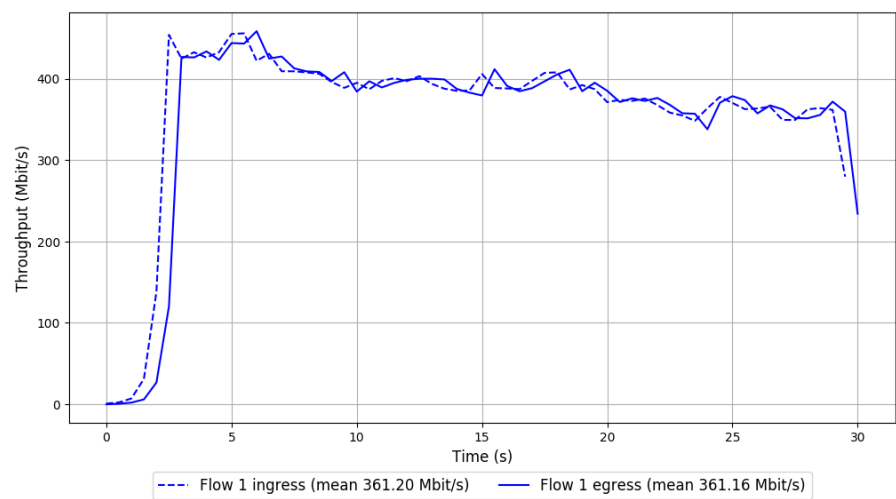


Run 4: Statistics of PCC-Vivace

Start at: 2019-08-27 17:25:20
End at: 2019-08-27 17:25:50
Local clock offset: 0.69 ms
Remote clock offset: -0.281 ms

Below is generated by plot.py at 2019-08-27 20:17:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 361.16 Mbit/s
95th percentile per-packet one-way delay: 58.483 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 361.16 Mbit/s
95th percentile per-packet one-way delay: 58.483 ms
Loss rate: 0.40%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-08-27 17:59:32

End at: 2019-08-27 18:00:02

Local clock offset: 0.25 ms

Remote clock offset: 0.65 ms

Below is generated by plot.py at 2019-08-27 20:17:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.84 Mbit/s

95th percentile per-packet one-way delay: 56.393 ms

Loss rate: 0.44%

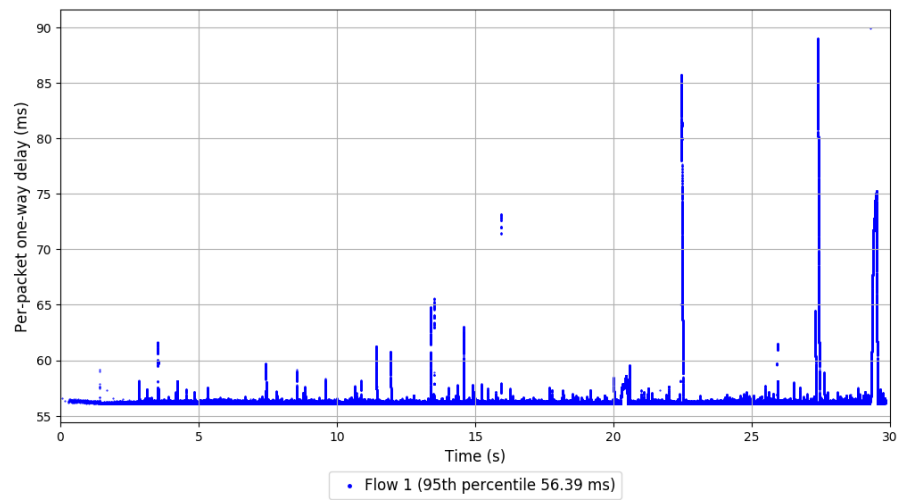
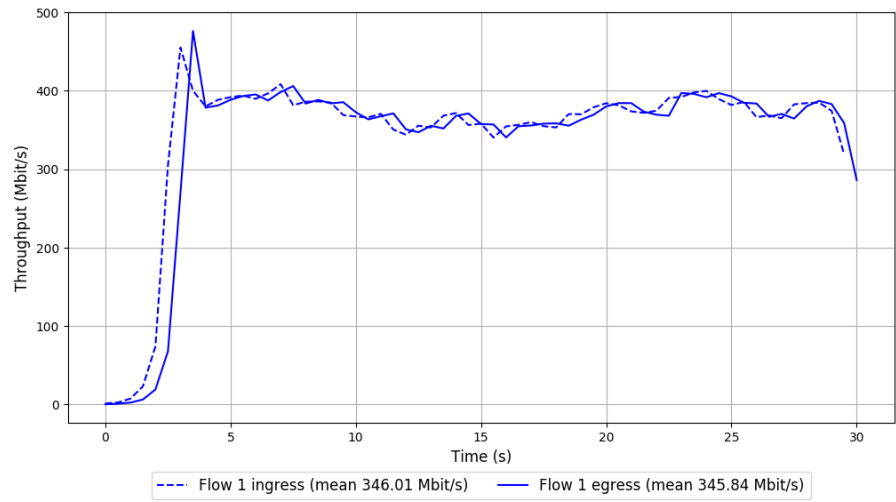
-- Flow 1:

Average throughput: 345.84 Mbit/s

95th percentile per-packet one-way delay: 56.393 ms

Loss rate: 0.44%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

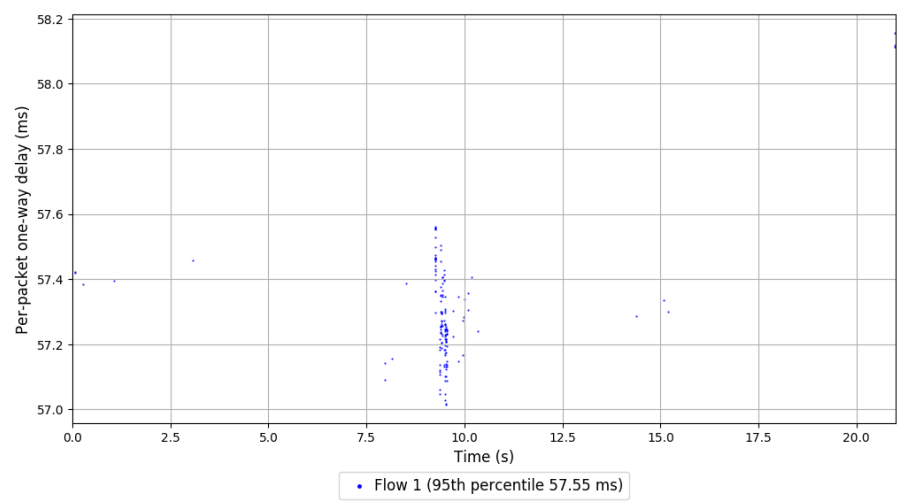
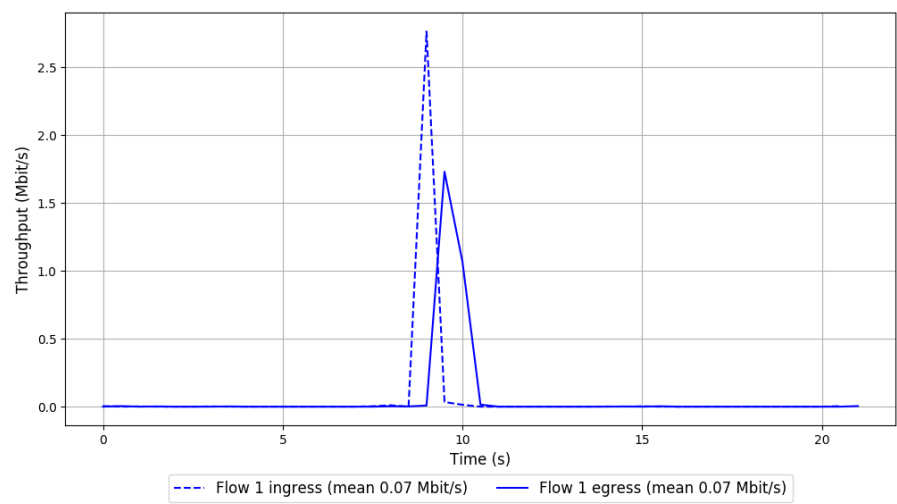
Start at: 2019-08-27 15:38:48

End at: 2019-08-27 15:39:18

Local clock offset: -0.104 ms

Remote clock offset: -0.541 ms

Run 1: Report of WebRTC media — Data Link

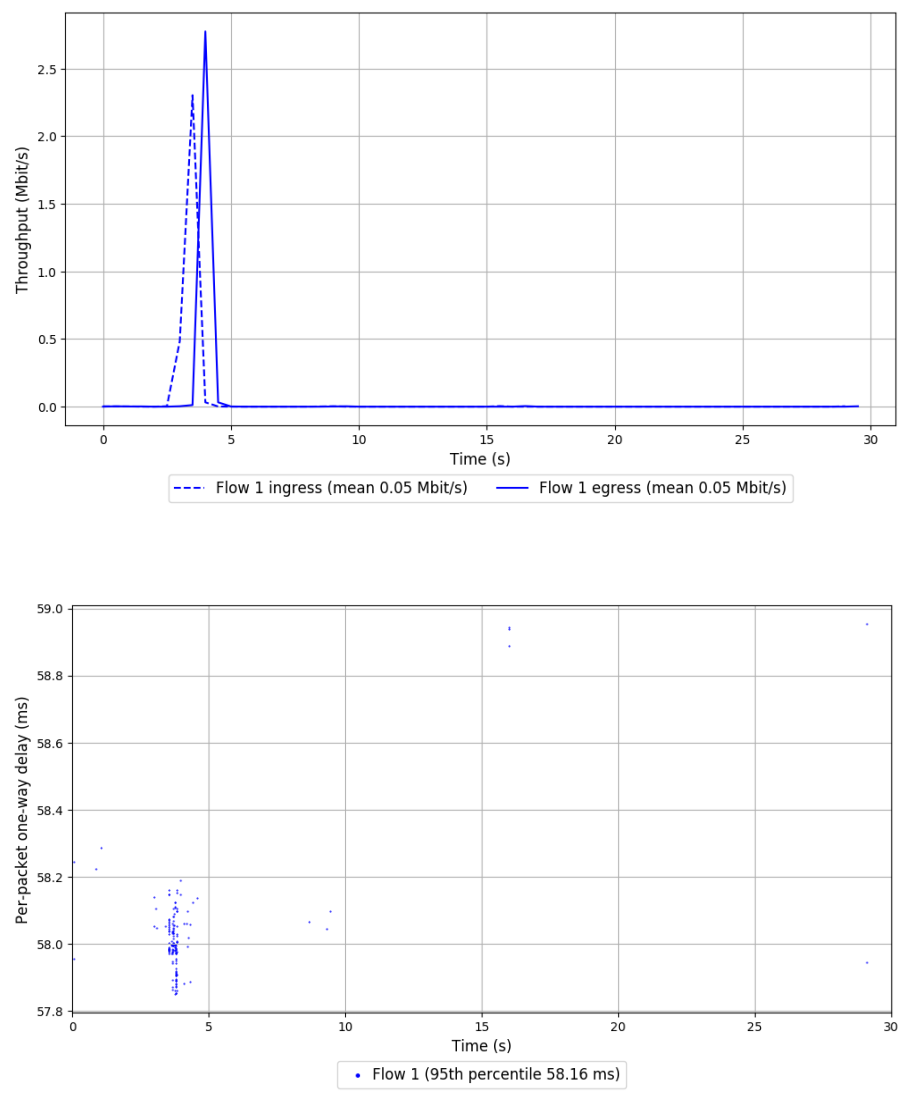


Run 2: Statistics of WebRTC media

Start at: 2019-08-27 16:12:55
End at: 2019-08-27 16:13:25
Local clock offset: 0.465 ms
Remote clock offset: -0.603 ms

Below is generated by plot.py at 2019-08-27 20:17:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 58.161 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 58.161 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

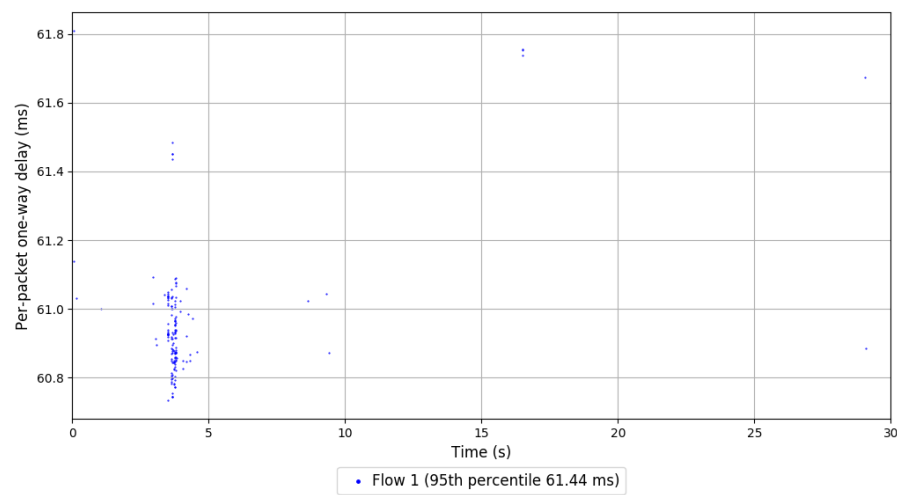
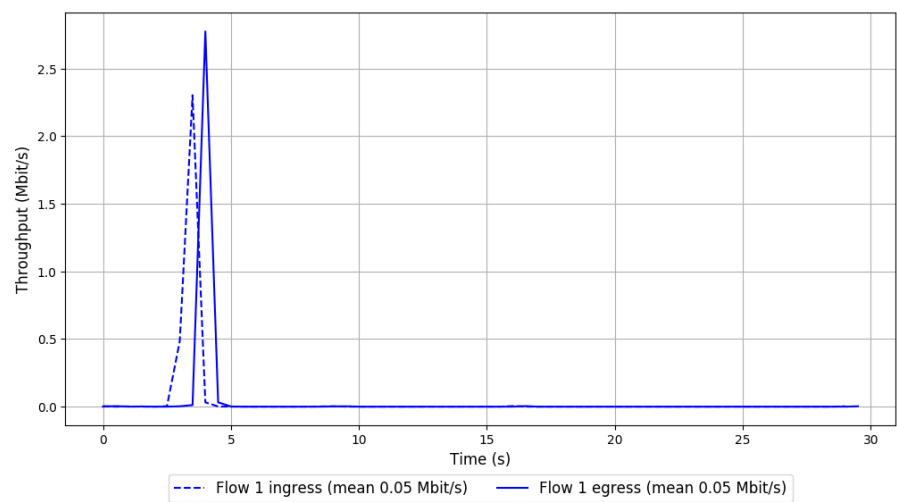


Run 3: Statistics of WebRTC media

Start at: 2019-08-27 16:47:00
End at: 2019-08-27 16:47:30
Local clock offset: 0.352 ms
Remote clock offset: -0.148 ms

Below is generated by plot.py at 2019-08-27 20:17:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 61.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 61.435 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-08-27 17:21:09

End at: 2019-08-27 17:21:39

Local clock offset: 0.403 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2019-08-27 20:17:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.256 ms

Loss rate: 0.00%

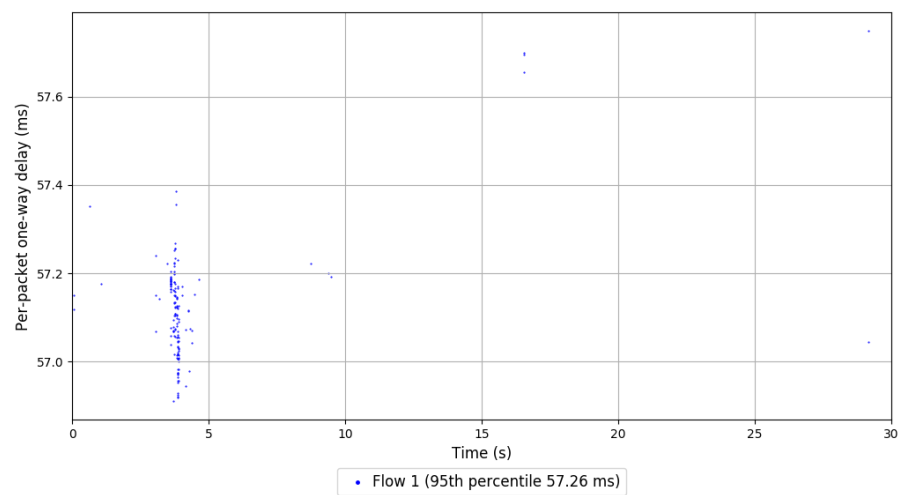
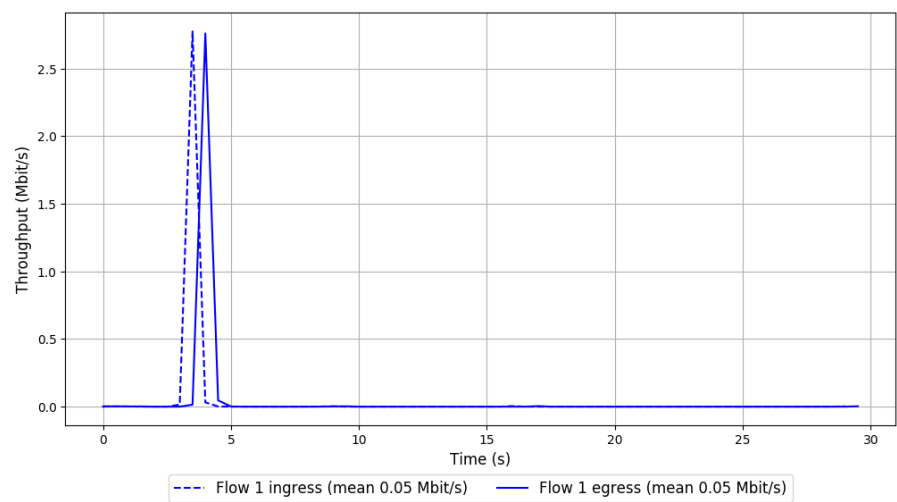
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.256 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-08-27 17:55:22

End at: 2019-08-27 17:55:52

Local clock offset: 0.278 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2019-08-27 20:17:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.413 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.413 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

