

Pantheon Report

Generated at 2019-08-27 08:52:41 (UTC).

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

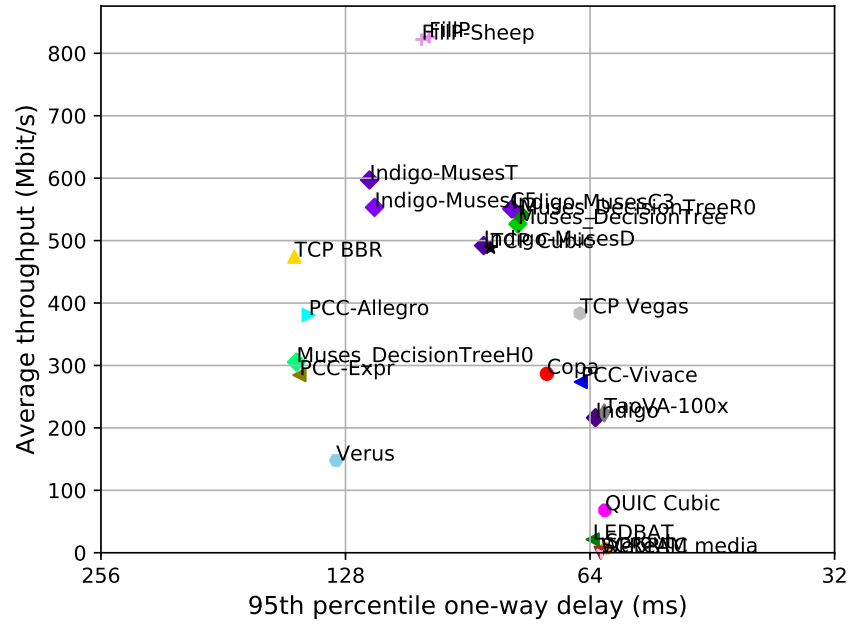
```
Linux 4.15.0-1036-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

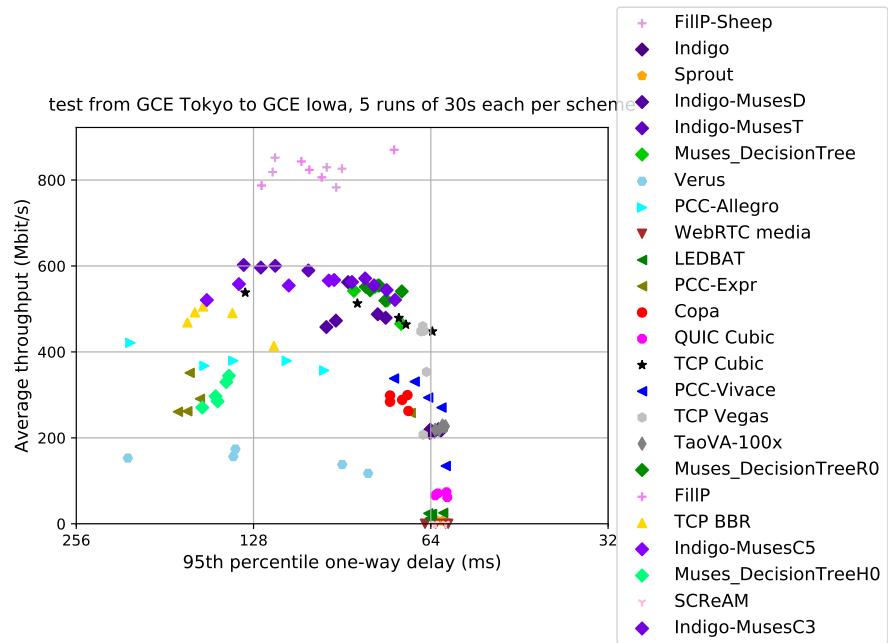
Git summary:

```
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 Iowa, 5 runs of 30s each per scheme
(mean of all runs by scheme)





scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	474.22	147.96	0.67
Copa	5	286.60	72.34	0.40
TCP Cubic	5	488.24	84.84	0.42
FillP	5	826.20	101.01	0.72
FillP-Sheep	5	821.94	103.17	0.75
Indigo	5	216.36	63.01	0.43
Indigo-MusesC3	5	550.71	79.88	0.43
Indigo-MusesC5	5	553.27	117.90	0.62
Indigo-MusesD	5	492.00	86.52	0.48
Indigo-MusesT	4	597.17	119.58	0.55
LEDBAT	5	21.26	63.52	0.82
Muses_DecisionTree	5	526.64	78.52	0.45
Muses_DecisionTreeH0	5	305.31	147.09	1.02
Muses_DecisionTreeR0	5	541.95	78.03	0.47
PCC-Allegro	5	380.81	142.08	2.30
PCC-Expr	5	284.57	145.86	2.33
QUIC Cubic	4	68.12	61.35	0.57
SCReAM	5	0.22	61.96	0.43
Sprout	5	6.84	61.27	0.44
TaoVA-100x	5	223.89	61.47	0.41
TCP Vegas	5	383.46	65.86	0.42
Verus	5	147.74	131.49	1.20
PCC-Vivace	5	273.56	65.70	0.48
WebRTC media	4	0.05	62.11	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-08-27 04:01:24

End at: 2019-08-27 04:01:54

Local clock offset: -0.136 ms

Remote clock offset: -0.095 ms

Below is generated by plot.py at 2019-08-27 07:11:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.75 Mbit/s

95th percentile per-packet one-way delay: 155.845 ms

Loss rate: 0.62%

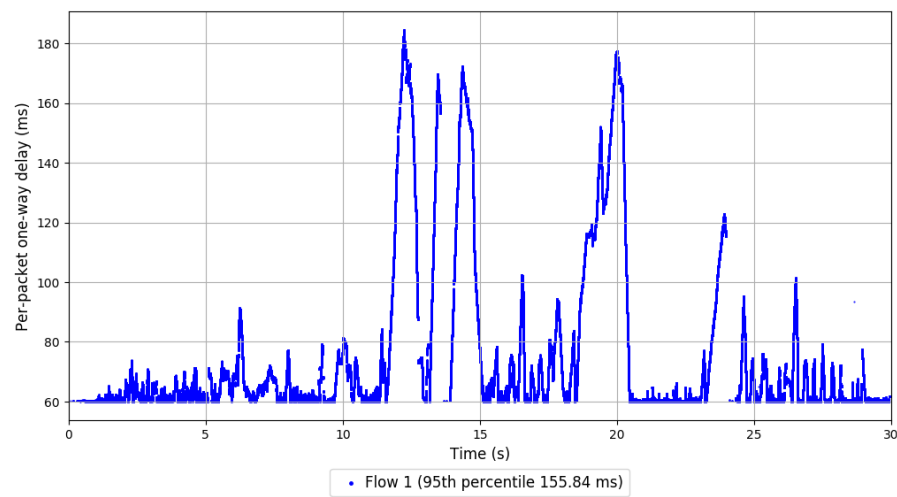
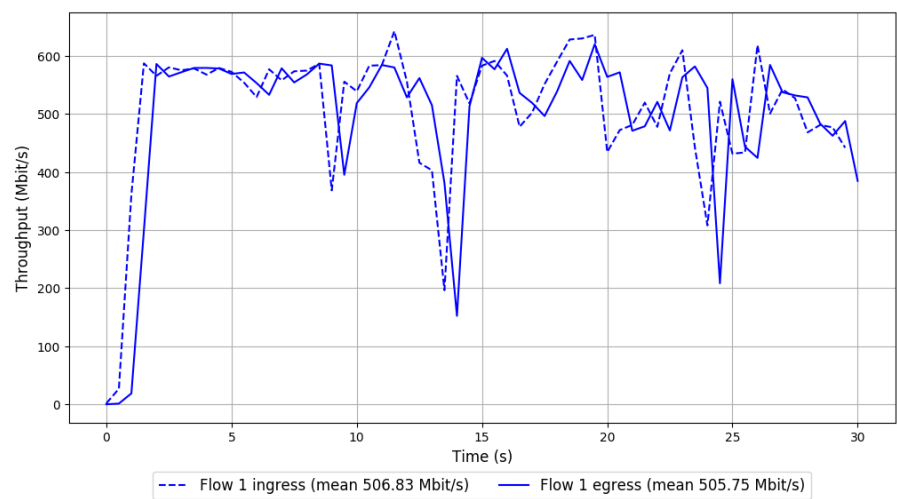
-- Flow 1:

Average throughput: 505.75 Mbit/s

95th percentile per-packet one-way delay: 155.845 ms

Loss rate: 0.62%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-08-27 04:35:52

End at: 2019-08-27 04:36:22

Local clock offset: 0.375 ms

Remote clock offset: -0.097 ms

Below is generated by plot.py at 2019-08-27 07:11:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 492.16 Mbit/s

95th percentile per-packet one-way delay: 160.992 ms

Loss rate: 0.58%

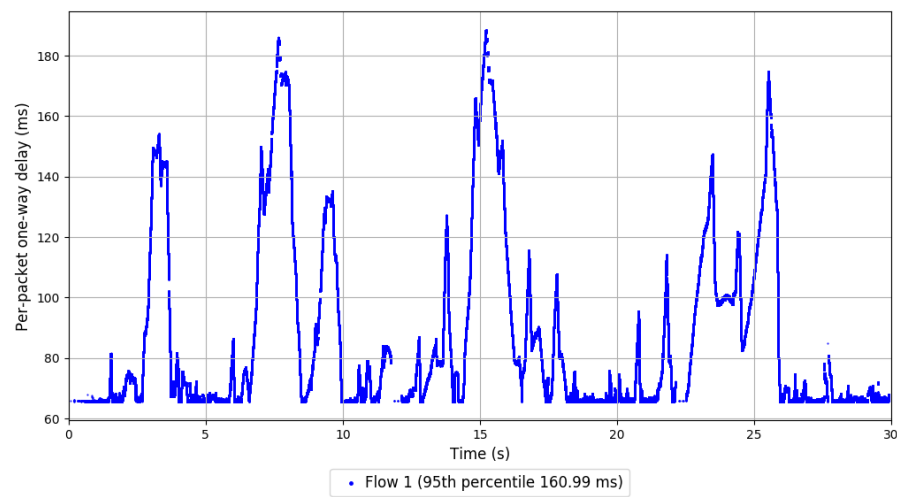
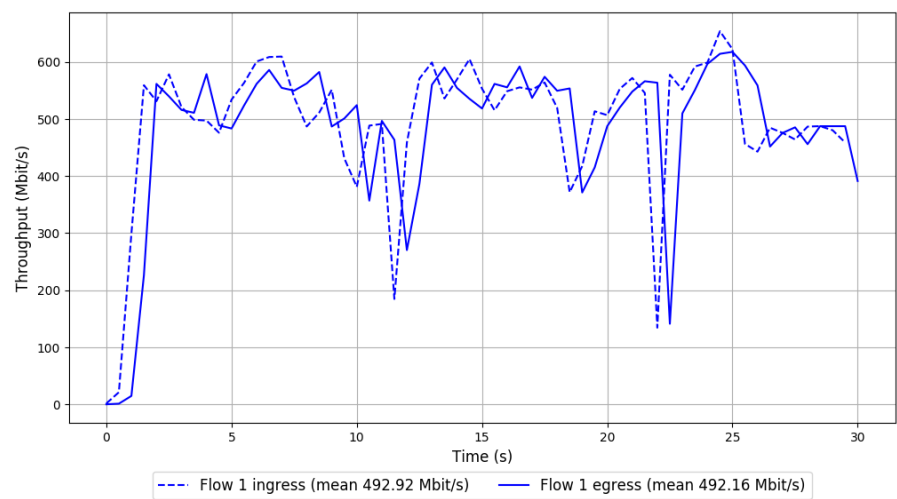
-- Flow 1:

Average throughput: 492.16 Mbit/s

95th percentile per-packet one-way delay: 160.992 ms

Loss rate: 0.58%

Run 2: Report of TCP BBR — Data Link

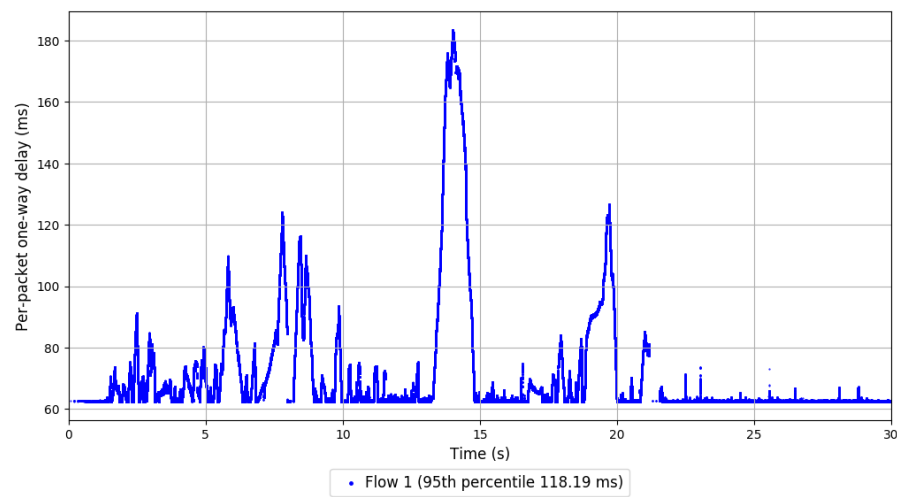
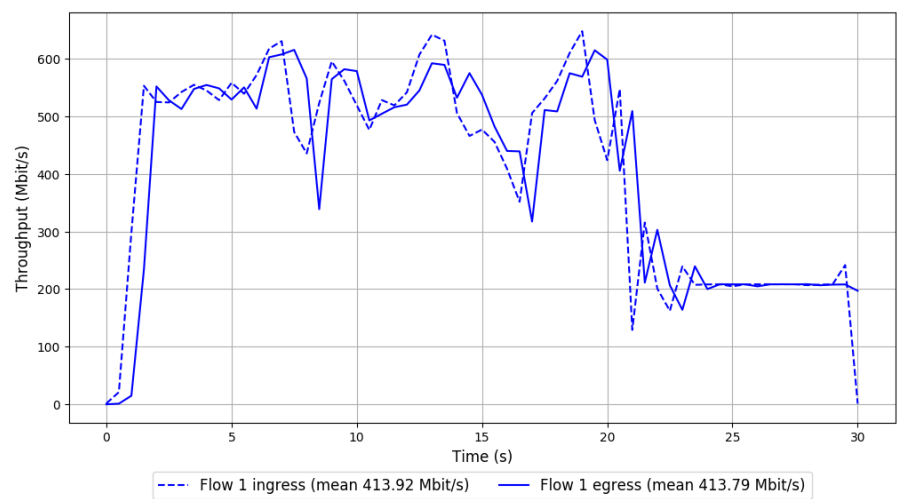


Run 3: Statistics of TCP BBR

Start at: 2019-08-27 05:10:49
End at: 2019-08-27 05:11:19
Local clock offset: 0.151 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2019-08-27 07:11:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 413.79 Mbit/s
95th percentile per-packet one-way delay: 118.187 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 413.79 Mbit/s
95th percentile per-packet one-way delay: 118.187 ms
Loss rate: 0.44%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-08-27 05:45:26

End at: 2019-08-27 05:45:56

Local clock offset: -0.06 ms

Remote clock offset: -0.061 ms

Below is generated by plot.py at 2019-08-27 07:11:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 490.66 Mbit/s

95th percentile per-packet one-way delay: 139.021 ms

Loss rate: 0.96%

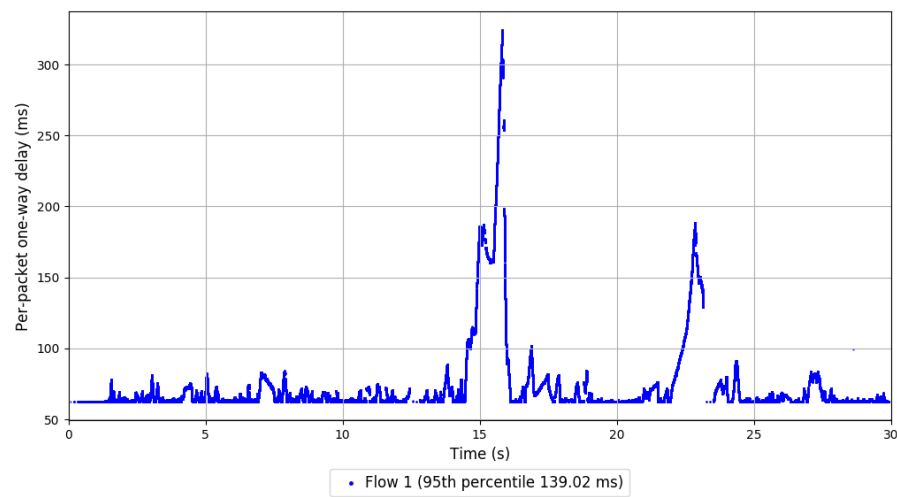
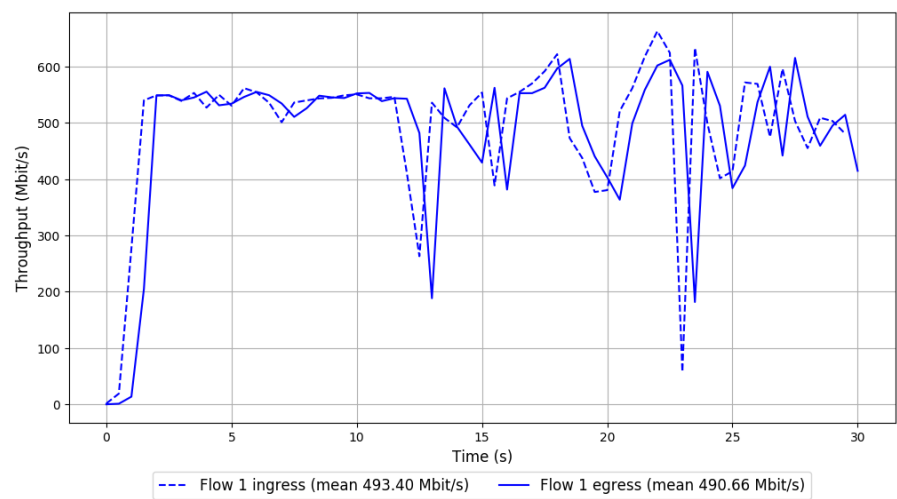
-- Flow 1:

Average throughput: 490.66 Mbit/s

95th percentile per-packet one-way delay: 139.021 ms

Loss rate: 0.96%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-08-27 06:20:13

End at: 2019-08-27 06:20:43

Local clock offset: -0.054 ms

Remote clock offset: 0.157 ms

Below is generated by plot.py at 2019-08-27 07:11:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 468.72 Mbit/s

95th percentile per-packet one-way delay: 165.731 ms

Loss rate: 0.75%

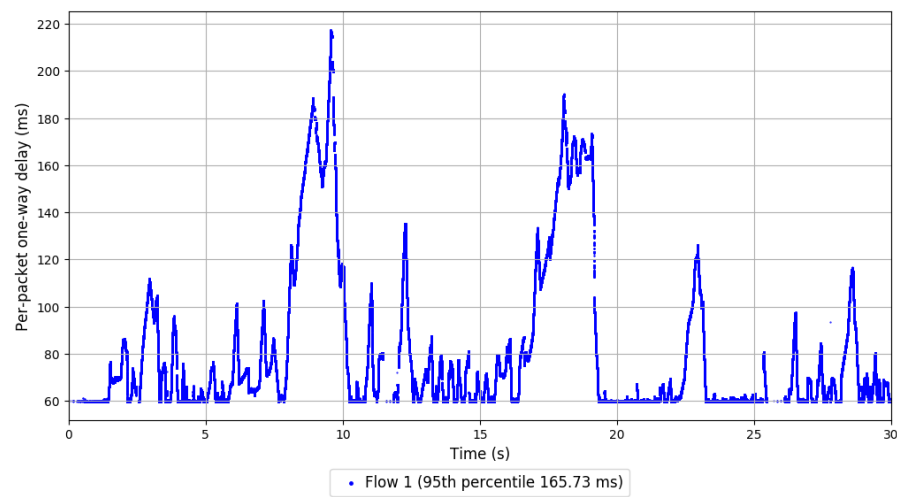
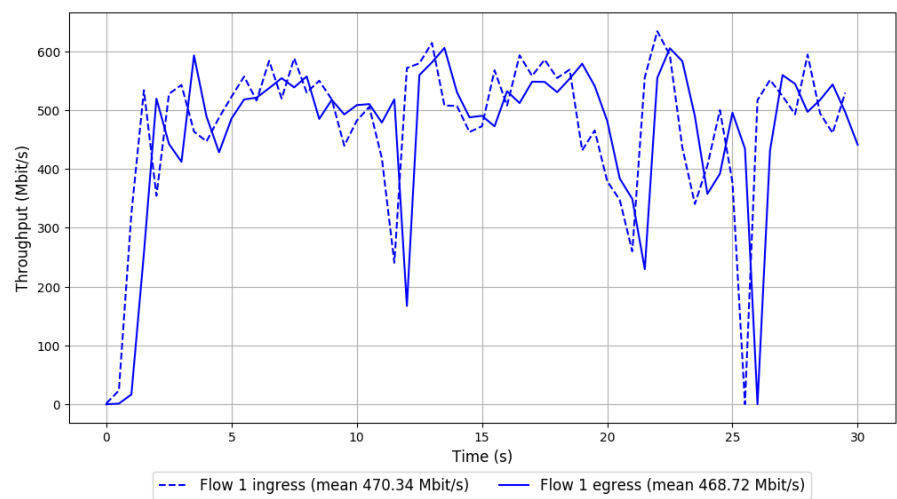
-- Flow 1:

Average throughput: 468.72 Mbit/s

95th percentile per-packet one-way delay: 165.731 ms

Loss rate: 0.75%

Run 5: Report of TCP BBR — Data Link

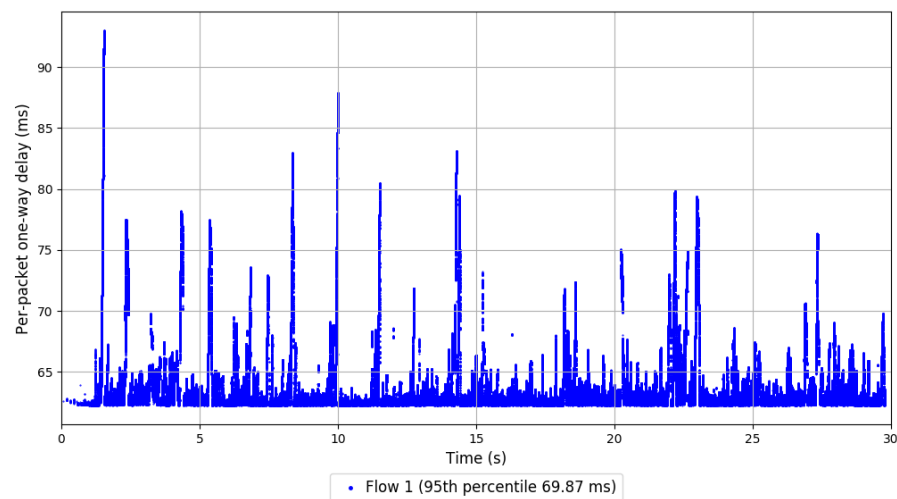
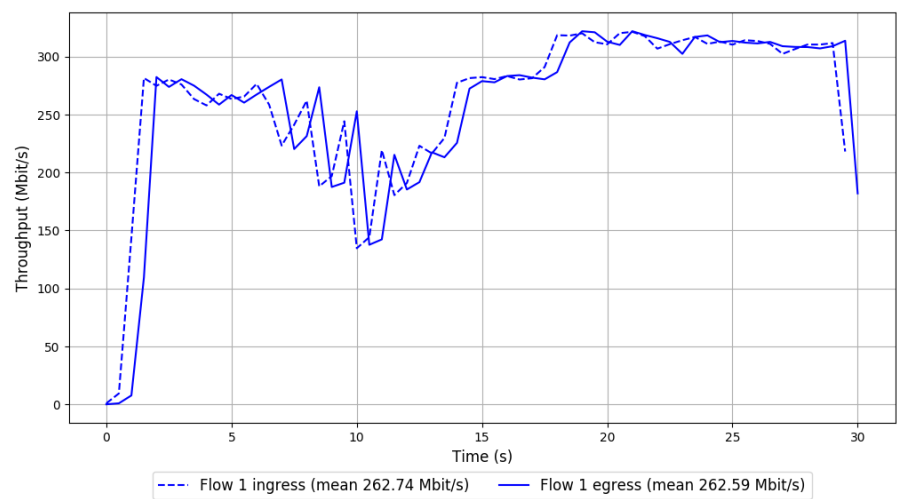


Run 1: Statistics of Copa

Start at: 2019-08-27 04:02:59
End at: 2019-08-27 04:03:29
Local clock offset: -0.11 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2019-08-27 07:11:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 262.59 Mbit/s
95th percentile per-packet one-way delay: 69.866 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 262.59 Mbit/s
95th percentile per-packet one-way delay: 69.866 ms
Loss rate: 0.47%

Run 1: Report of Copa — Data Link

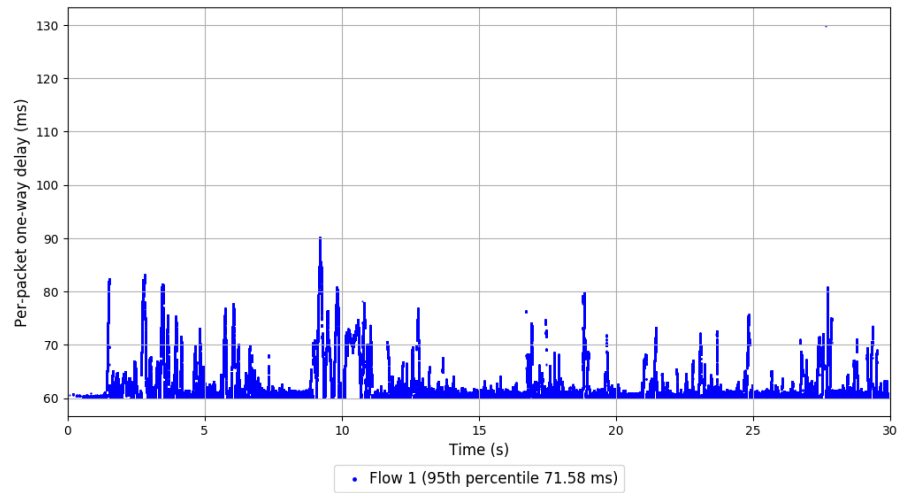
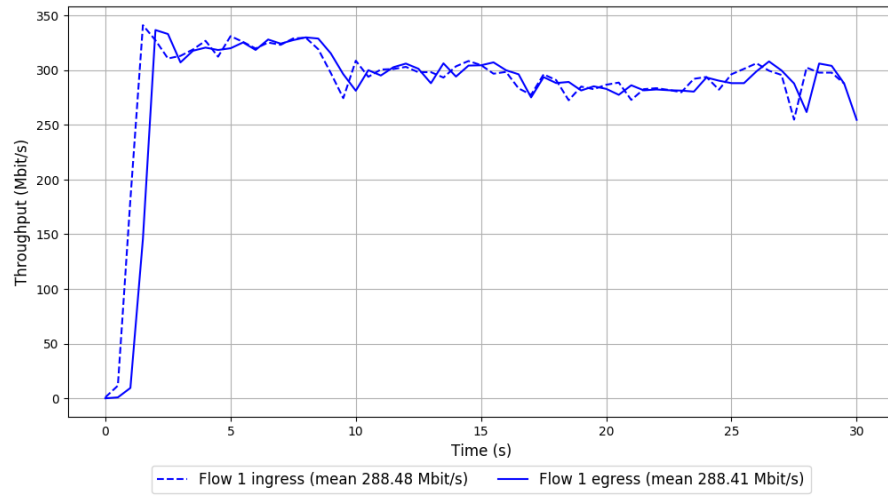


Run 2: Statistics of Copa

Start at: 2019-08-27 04:37:27
End at: 2019-08-27 04:37:57
Local clock offset: 0.391 ms
Remote clock offset: -0.364 ms

Below is generated by plot.py at 2019-08-27 07:11:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 288.41 Mbit/s
95th percentile per-packet one-way delay: 71.584 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 288.41 Mbit/s
95th percentile per-packet one-way delay: 71.584 ms
Loss rate: 0.42%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-08-27 05:12:20

End at: 2019-08-27 05:12:50

Local clock offset: 0.098 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2019-08-27 07:12:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.50 Mbit/s

95th percentile per-packet one-way delay: 75.063 ms

Loss rate: 0.26%

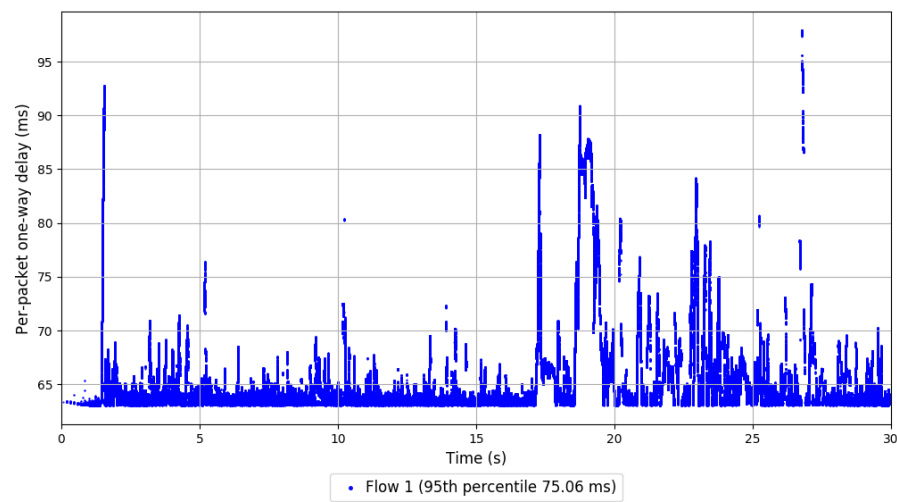
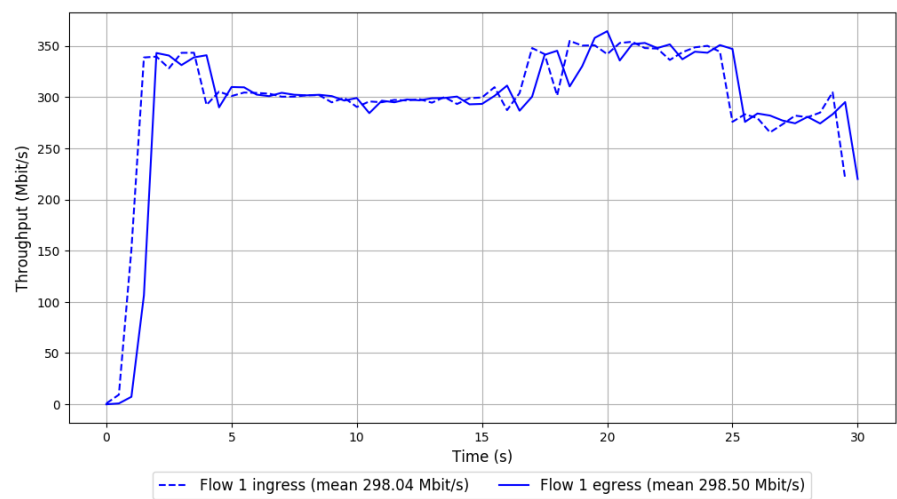
-- Flow 1:

Average throughput: 298.50 Mbit/s

95th percentile per-packet one-way delay: 75.063 ms

Loss rate: 0.26%

Run 3: Report of Copa — Data Link

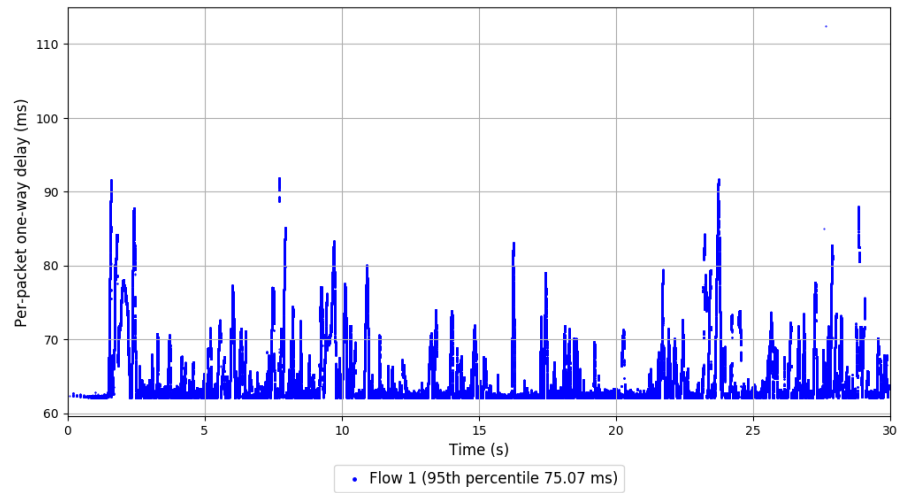
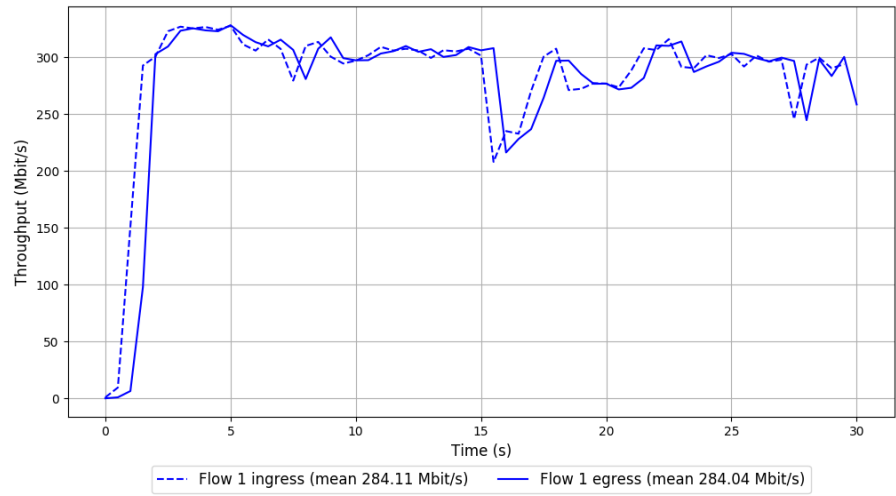


Run 4: Statistics of Copa

Start at: 2019-08-27 05:47:01
End at: 2019-08-27 05:47:31
Local clock offset: -0.075 ms
Remote clock offset: 0.037 ms

Below is generated by plot.py at 2019-08-27 07:19:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 284.04 Mbit/s
95th percentile per-packet one-way delay: 75.066 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 284.04 Mbit/s
95th percentile per-packet one-way delay: 75.066 ms
Loss rate: 0.44%

Run 4: Report of Copa — Data Link

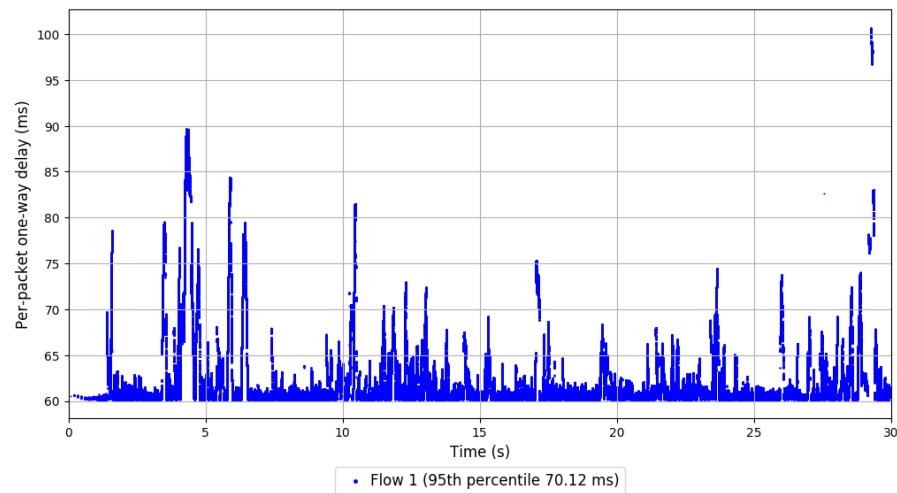
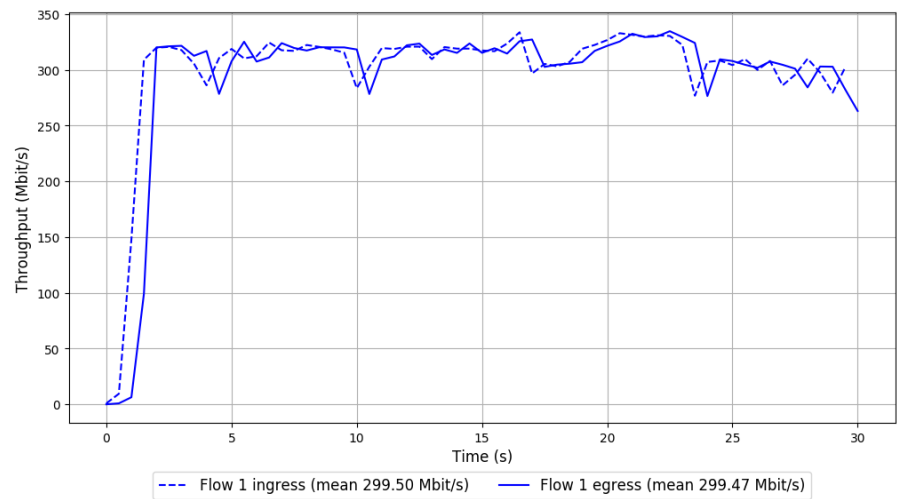


Run 5: Statistics of Copa

Start at: 2019-08-27 06:21:46
End at: 2019-08-27 06:22:16
Local clock offset: -0.076 ms
Remote clock offset: -0.237 ms

Below is generated by plot.py at 2019-08-27 07:20:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 299.47 Mbit/s
95th percentile per-packet one-way delay: 70.123 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 299.47 Mbit/s
95th percentile per-packet one-way delay: 70.123 ms
Loss rate: 0.41%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

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

End at: 2019-08-27 04:27:34

Local clock offset: 0.31 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2019-08-27 07:20:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 512.81 Mbit/s

95th percentile per-packet one-way delay: 85.274 ms

Loss rate: 0.48%

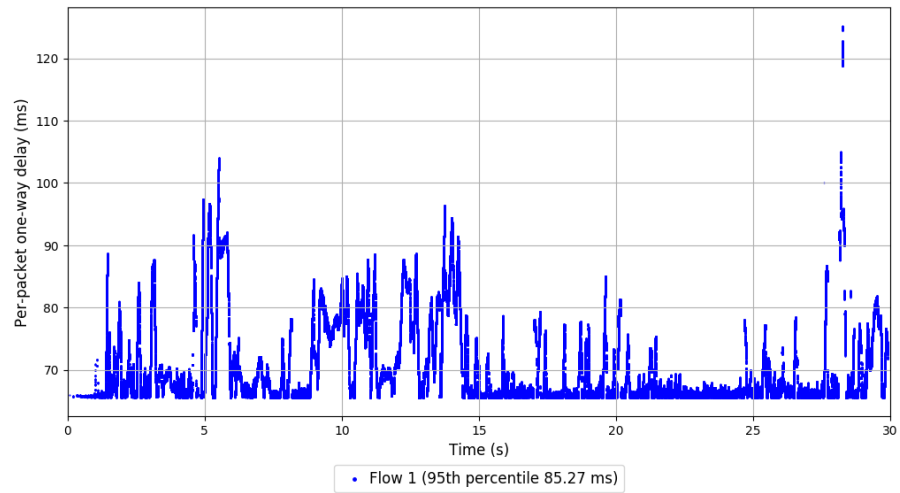
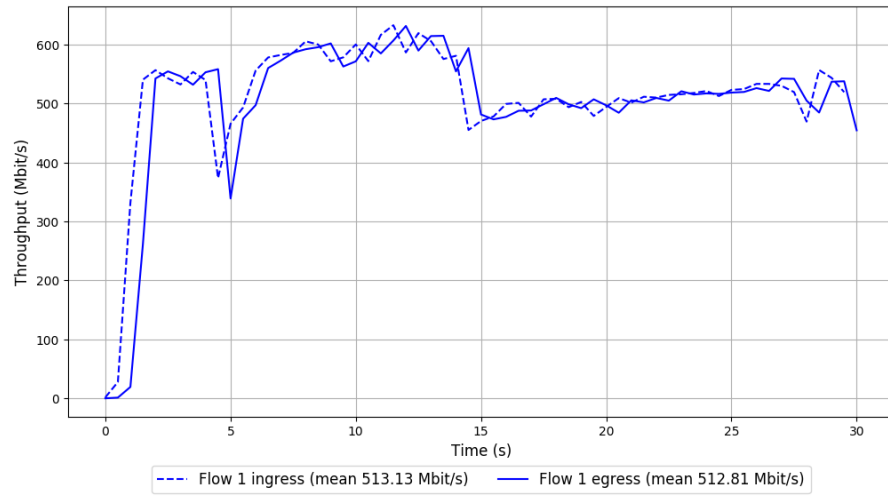
-- Flow 1:

Average throughput: 512.81 Mbit/s

95th percentile per-packet one-way delay: 85.274 ms

Loss rate: 0.48%

Run 1: Report of TCP Cubic — Data Link

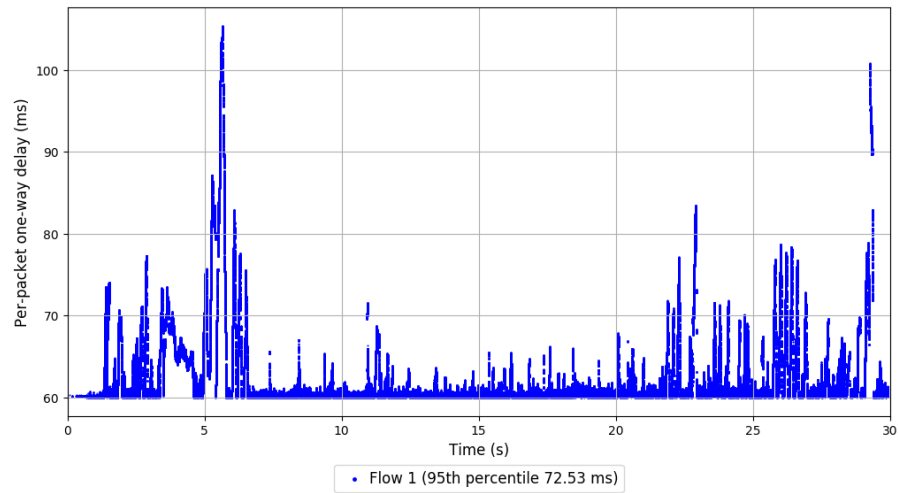
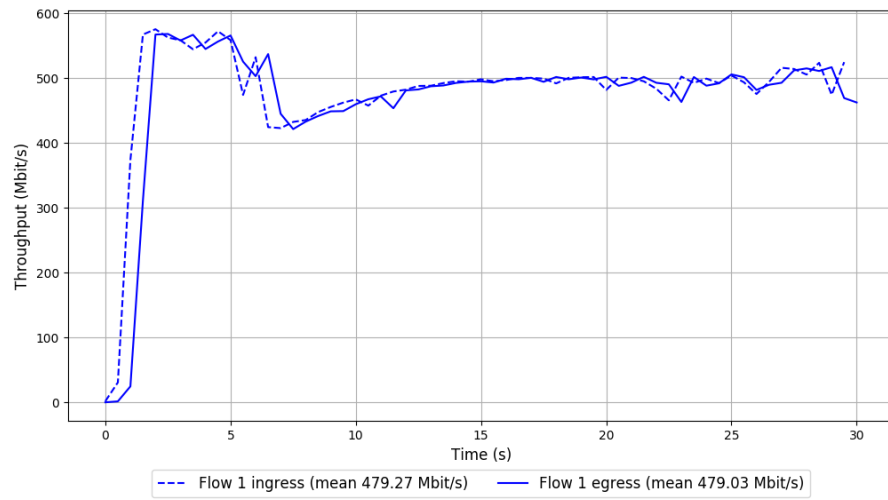


Run 2: Statistics of TCP Cubic

Start at: 2019-08-27 05:02:01
End at: 2019-08-27 05:02:31
Local clock offset: 0.482 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2019-08-27 07:20:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 479.03 Mbit/s
95th percentile per-packet one-way delay: 72.525 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 479.03 Mbit/s
95th percentile per-packet one-way delay: 72.525 ms
Loss rate: 0.45%

Run 2: Report of TCP Cubic — Data Link

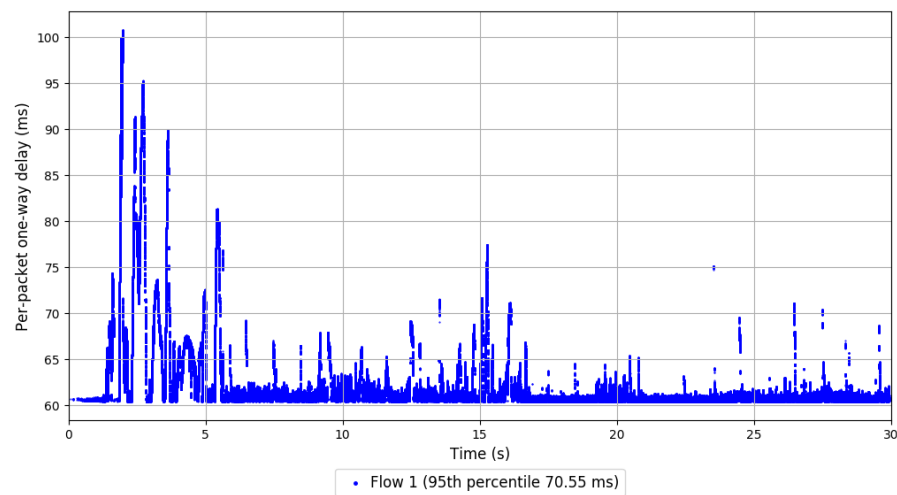
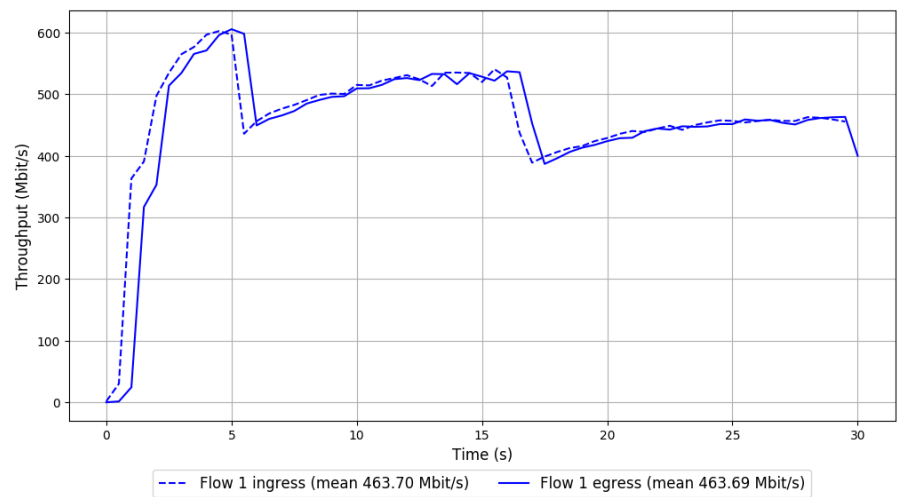


Run 3: Statistics of TCP Cubic

Start at: 2019-08-27 05:36:36
End at: 2019-08-27 05:37:06
Local clock offset: -0.122 ms
Remote clock offset: -0.632 ms

Below is generated by plot.py at 2019-08-27 07:20:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 463.69 Mbit/s
95th percentile per-packet one-way delay: 70.545 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 463.69 Mbit/s
95th percentile per-packet one-way delay: 70.545 ms
Loss rate: 0.40%

Run 3: Report of TCP Cubic — Data Link

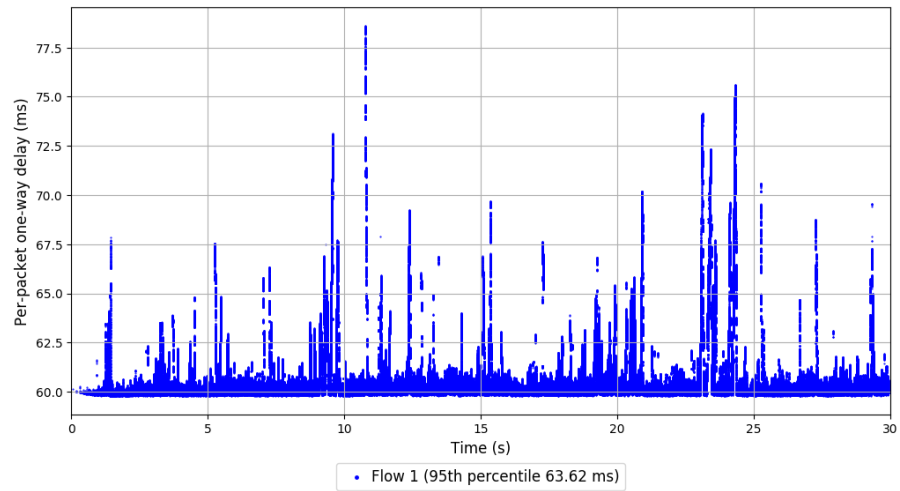
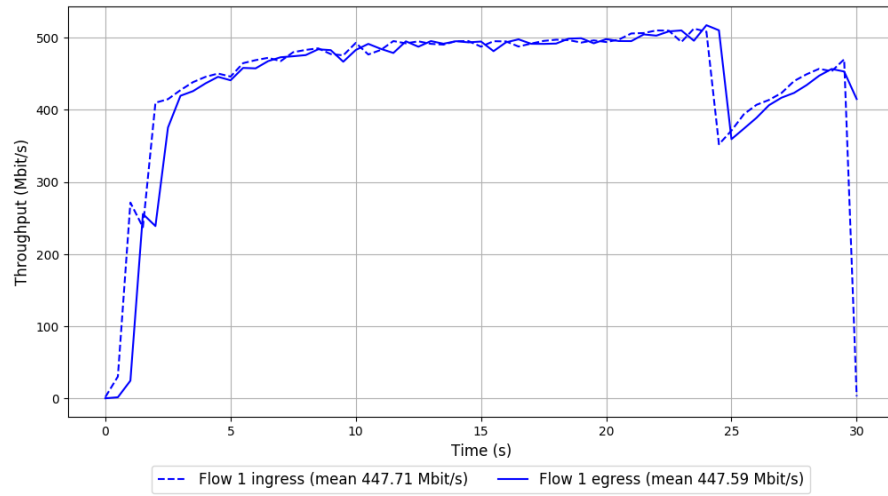


Run 4: Statistics of TCP Cubic

Start at: 2019-08-27 06:11:19
End at: 2019-08-27 06:11:50
Local clock offset: -0.08 ms
Remote clock offset: -0.176 ms

Below is generated by plot.py at 2019-08-27 07:20:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 447.59 Mbit/s
95th percentile per-packet one-way delay: 63.624 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 447.59 Mbit/s
95th percentile per-packet one-way delay: 63.624 ms
Loss rate: 0.44%

Run 4: Report of TCP Cubic — Data Link

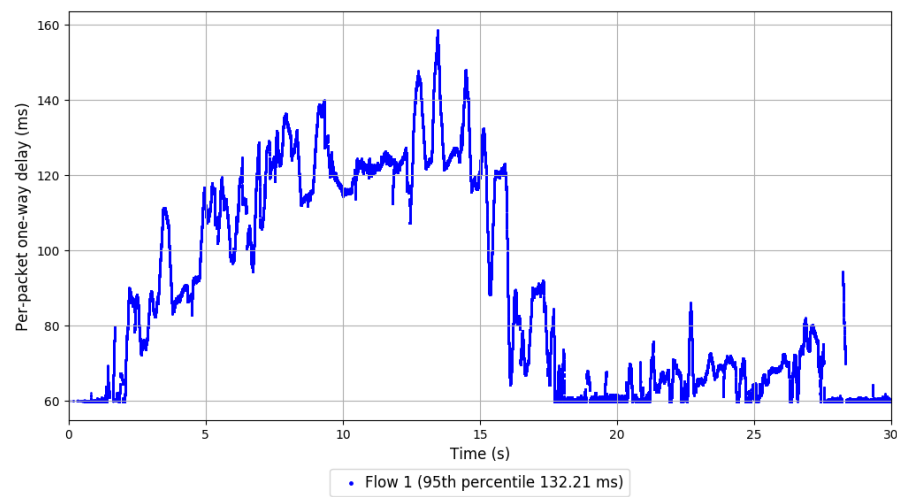
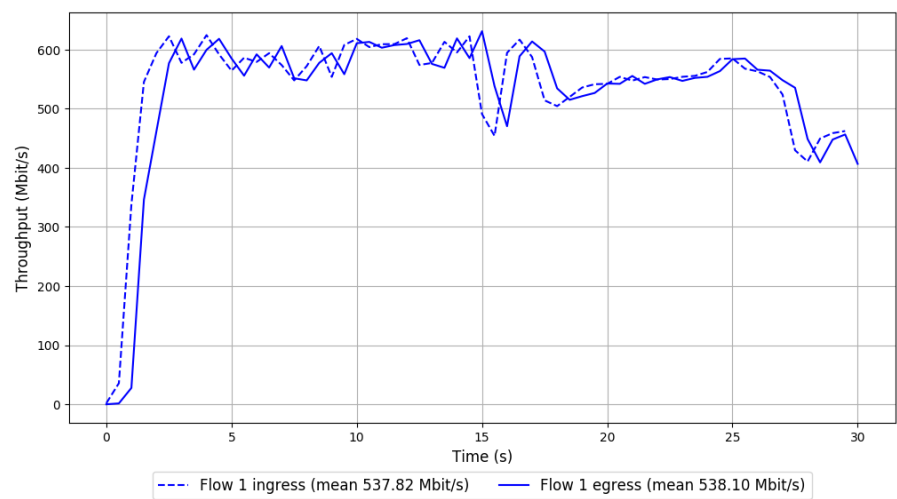


Run 5: Statistics of TCP Cubic

Start at: 2019-08-27 06:46:21
End at: 2019-08-27 06:46:51
Local clock offset: -0.072 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2019-08-27 07:20:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 538.10 Mbit/s
95th percentile per-packet one-way delay: 132.210 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 538.10 Mbit/s
95th percentile per-packet one-way delay: 132.210 ms
Loss rate: 0.35%

Run 5: Report of TCP Cubic — Data Link

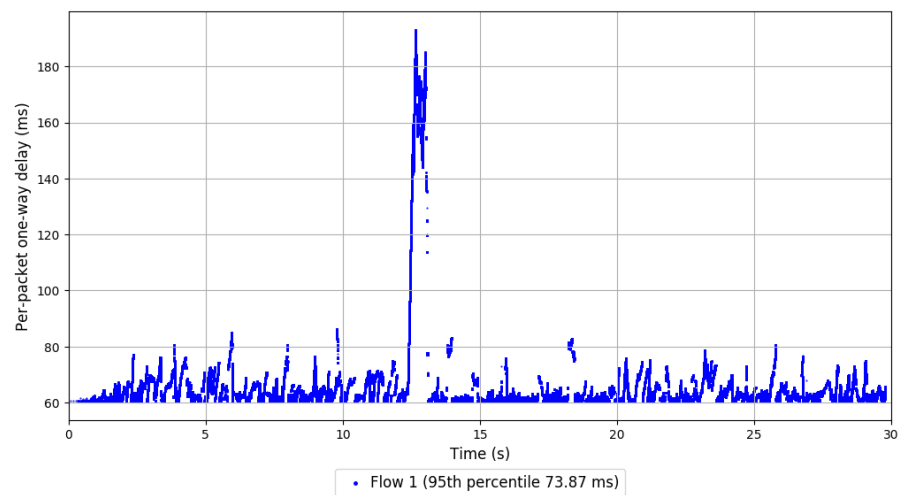
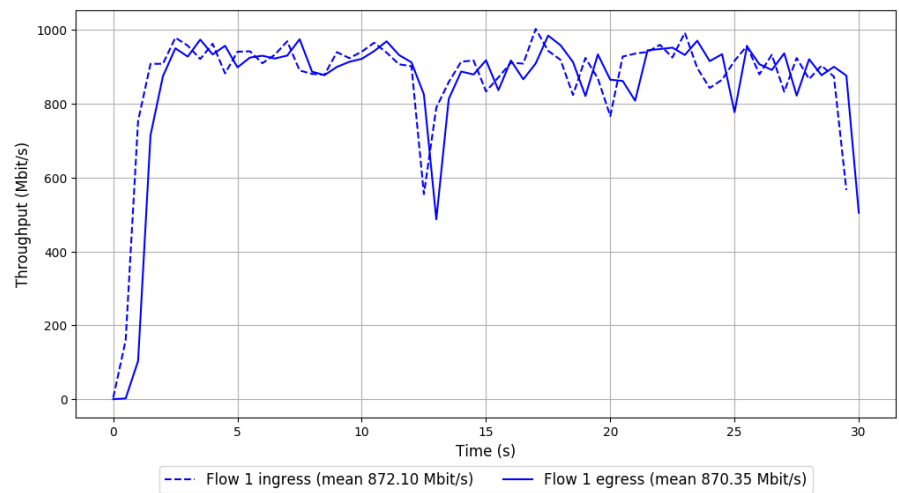


Run 1: Statistics of FillP

Start at: 2019-08-27 04:21:08
End at: 2019-08-27 04:21:38
Local clock offset: 0.237 ms
Remote clock offset: -0.355 ms

Below is generated by plot.py at 2019-08-27 07:29:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 870.35 Mbit/s
95th percentile per-packet one-way delay: 73.867 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 870.35 Mbit/s
95th percentile per-packet one-way delay: 73.867 ms
Loss rate: 0.61%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-08-27 04:56:06

End at: 2019-08-27 04:56:36

Local clock offset: 0.558 ms

Remote clock offset: 0.759 ms

Below is generated by plot.py at 2019-08-27 07:36:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 843.27 Mbit/s

95th percentile per-packet one-way delay: 106.173 ms

Loss rate: 0.72%

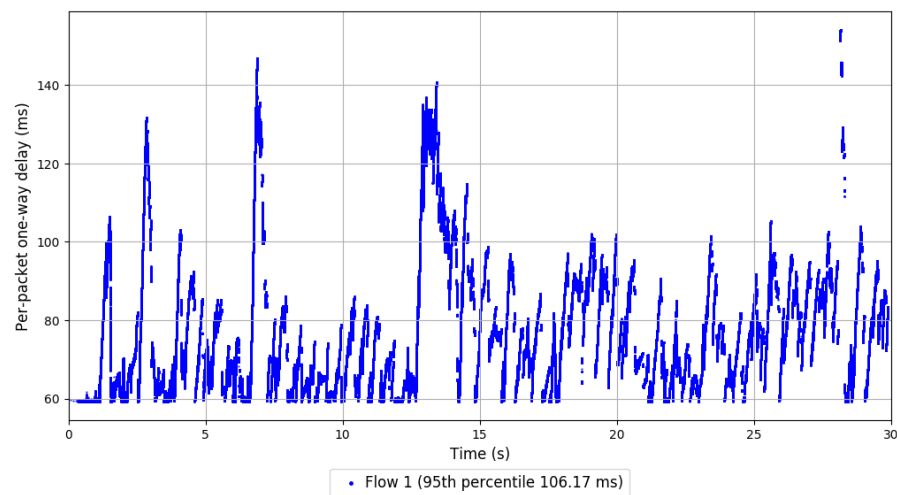
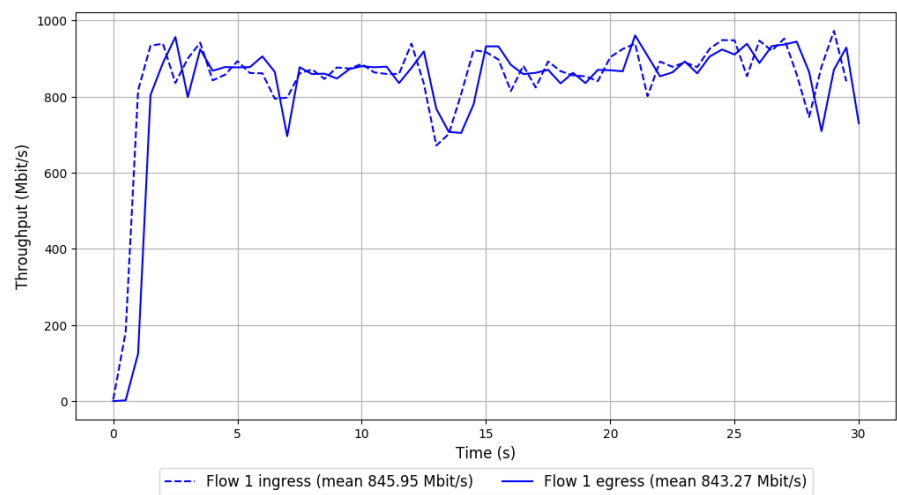
-- Flow 1:

Average throughput: 843.27 Mbit/s

95th percentile per-packet one-way delay: 106.173 ms

Loss rate: 0.72%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-08-27 05:30:47

End at: 2019-08-27 05:31:17

Local clock offset: -0.088 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2019-08-27 07:36:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 823.71 Mbit/s

95th percentile per-packet one-way delay: 102.917 ms

Loss rate: 0.66%

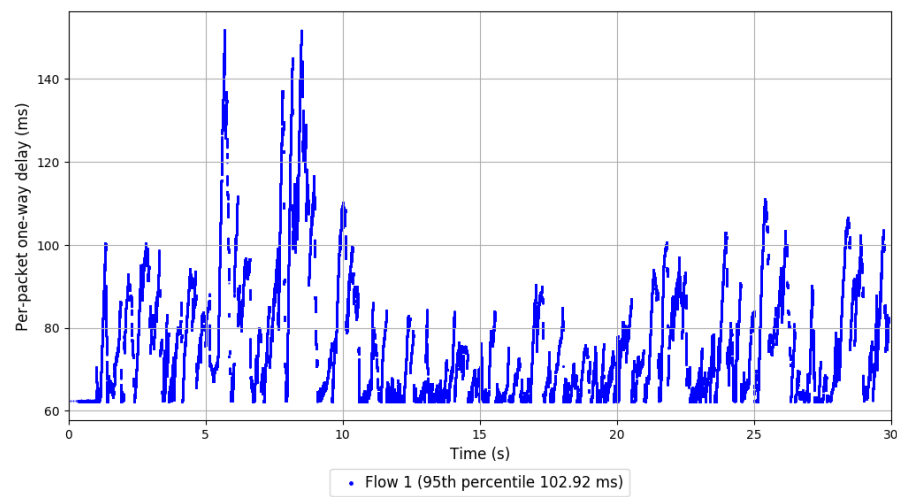
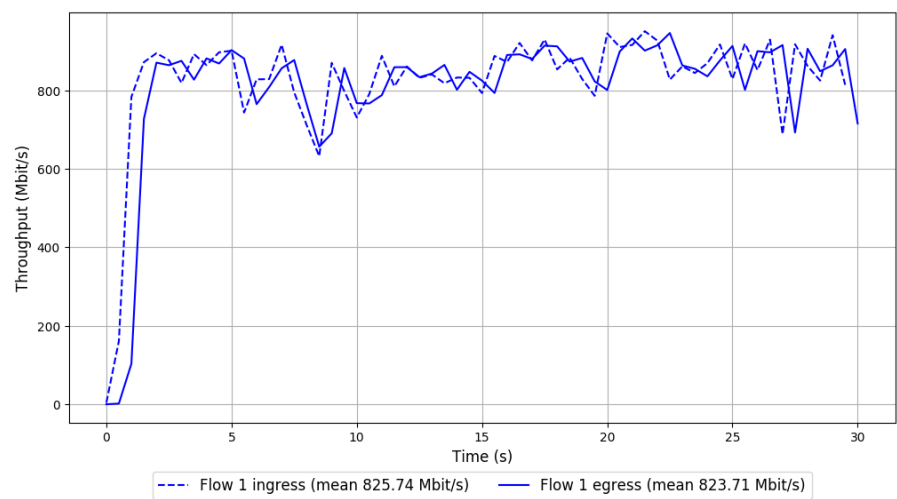
-- Flow 1:

Average throughput: 823.71 Mbit/s

95th percentile per-packet one-way delay: 102.917 ms

Loss rate: 0.66%

Run 3: Report of FillP — Data Link

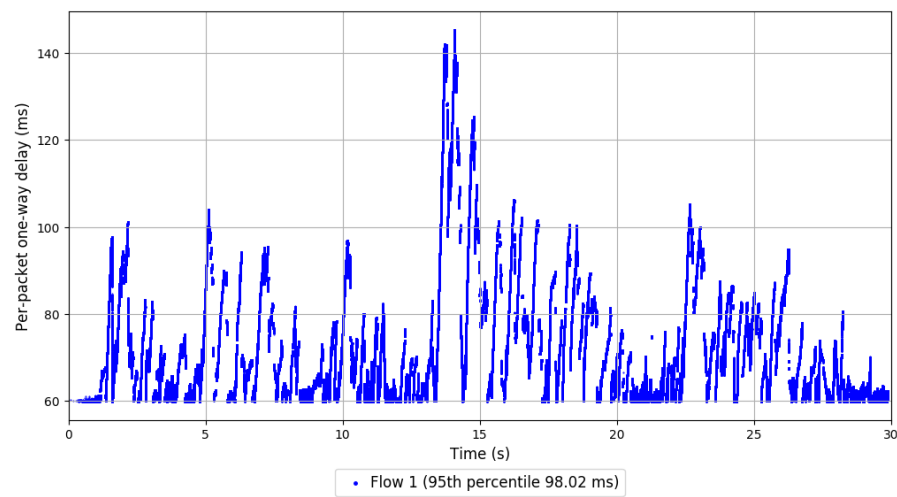
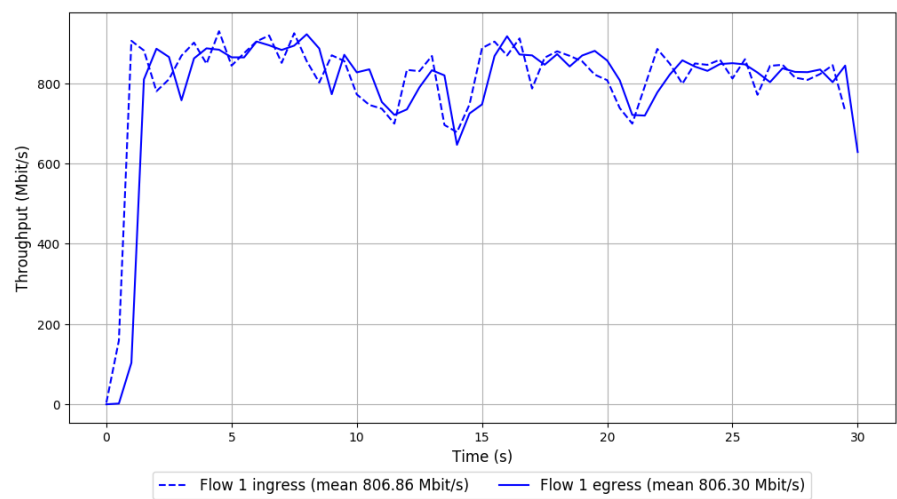


Run 4: Statistics of FillP

Start at: 2019-08-27 06:05:37
End at: 2019-08-27 06:06:07
Local clock offset: -0.085 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2019-08-27 07:36:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 806.30 Mbit/s
95th percentile per-packet one-way delay: 98.020 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 806.30 Mbit/s
95th percentile per-packet one-way delay: 98.020 ms
Loss rate: 0.47%

Run 4: Report of FillP — Data Link

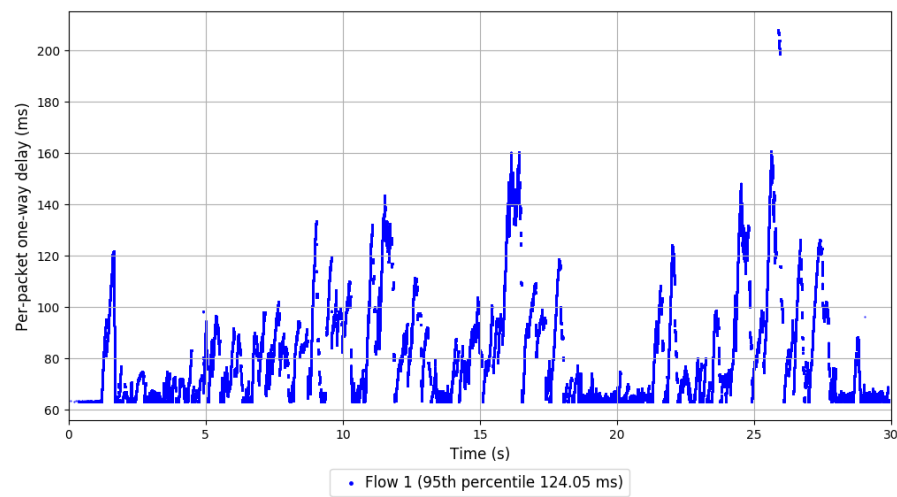
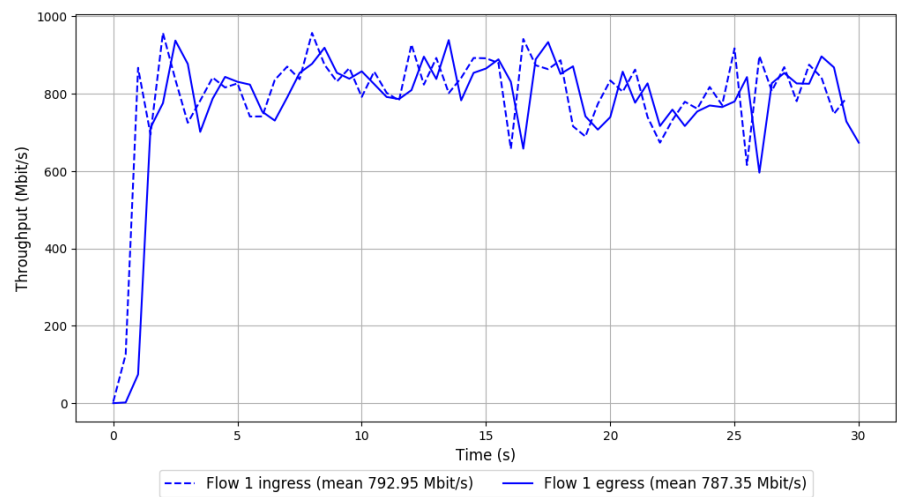


Run 5: Statistics of FillP

Start at: 2019-08-27 06:40:27
End at: 2019-08-27 06:40:57
Local clock offset: -0.116 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2019-08-27 07:36:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 787.35 Mbit/s
95th percentile per-packet one-way delay: 124.051 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 787.35 Mbit/s
95th percentile per-packet one-way delay: 124.051 ms
Loss rate: 1.13%

Run 5: Report of FillP — Data Link

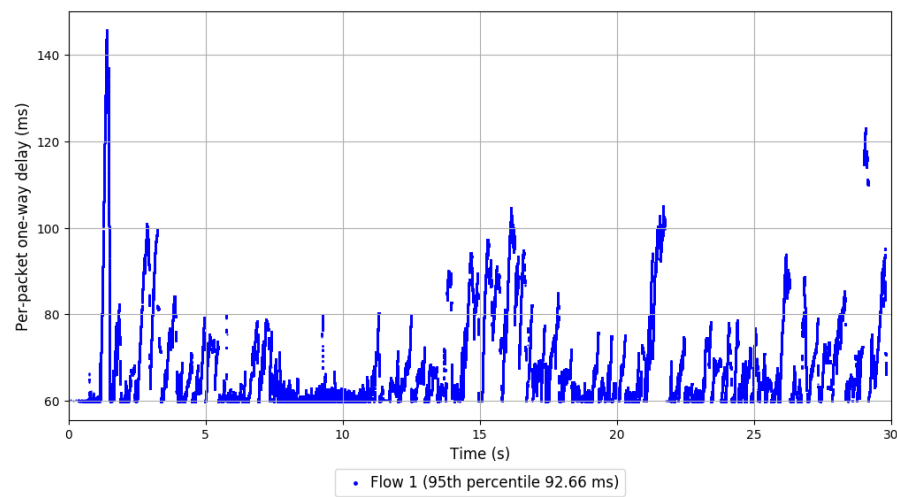
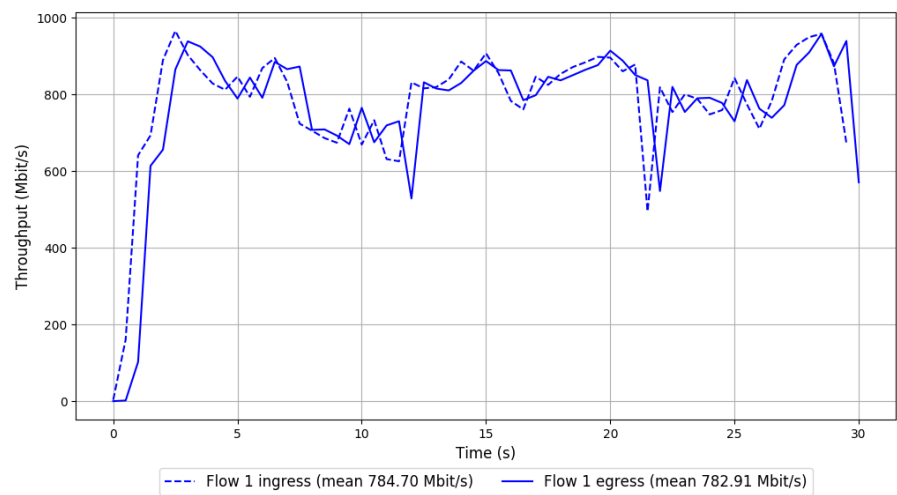


Run 1: Statistics of FillP-Sheep

Start at: 2019-08-27 03:55:43
End at: 2019-08-27 03:56:13
Local clock offset: -0.431 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2019-08-27 07:36:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 782.91 Mbit/s
95th percentile per-packet one-way delay: 92.662 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 782.91 Mbit/s
95th percentile per-packet one-way delay: 92.662 ms
Loss rate: 0.64%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-08-27 04:30:10

End at: 2019-08-27 04:30:40

Local clock offset: 0.356 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2019-08-27 07:37:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 829.64 Mbit/s

95th percentile per-packet one-way delay: 96.137 ms

Loss rate: 0.46%

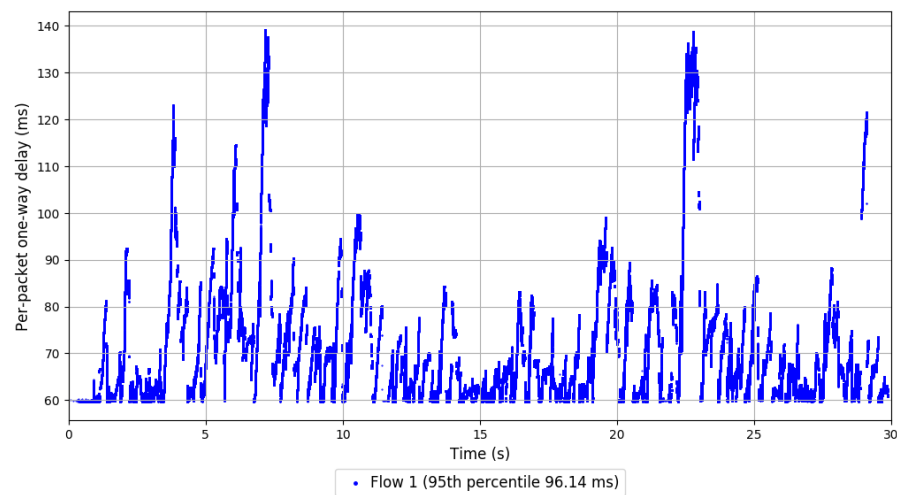
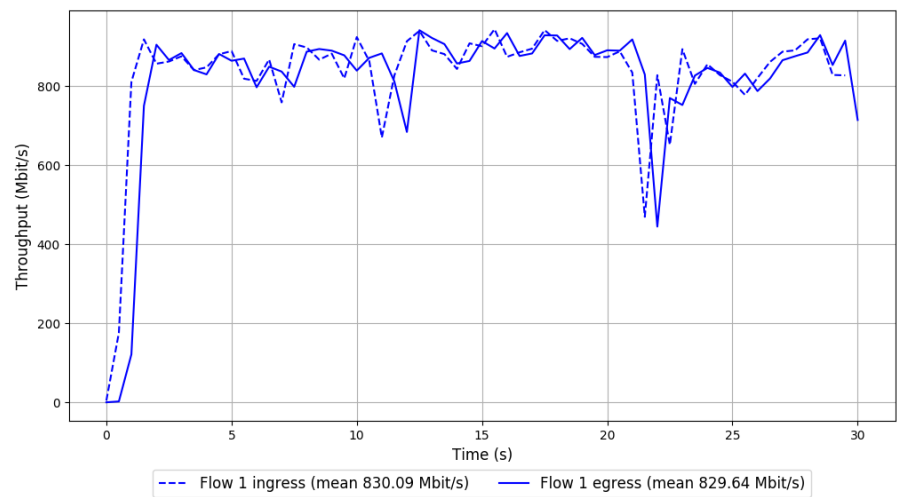
-- Flow 1:

Average throughput: 829.64 Mbit/s

95th percentile per-packet one-way delay: 96.137 ms

Loss rate: 0.46%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-08-27 05:05:05

End at: 2019-08-27 05:05:35

Local clock offset: 0.296 ms

Remote clock offset: 0.086 ms

Below is generated by plot.py at 2019-08-27 07:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 826.43 Mbit/s

95th percentile per-packet one-way delay: 90.578 ms

Loss rate: 0.66%

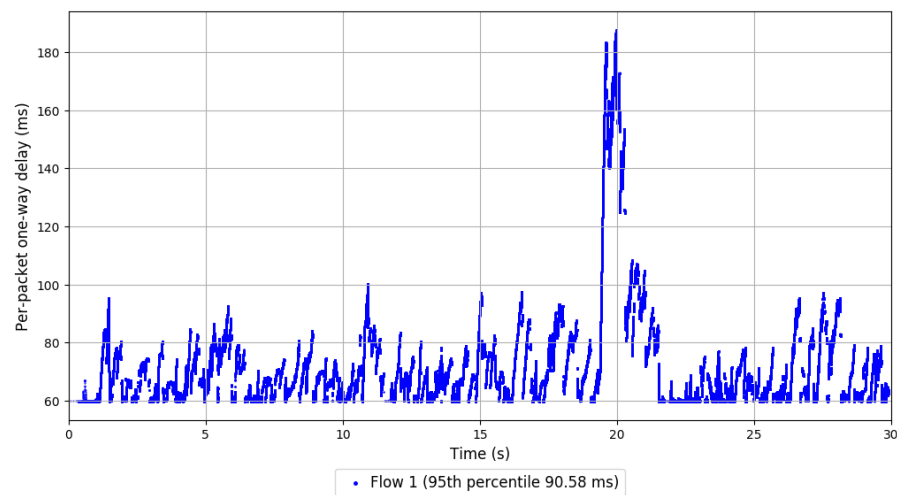
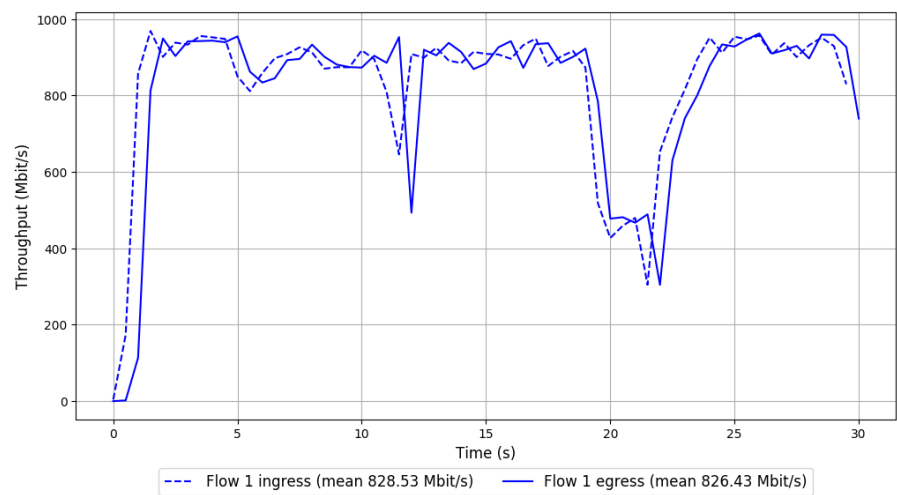
-- Flow 1:

Average throughput: 826.43 Mbit/s

95th percentile per-packet one-way delay: 90.578 ms

Loss rate: 0.66%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-08-27 05:39:40

End at: 2019-08-27 05:40:10

Local clock offset: -0.078 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2019-08-27 07:49:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 852.05 Mbit/s

95th percentile per-packet one-way delay: 117.675 ms

Loss rate: 0.84%

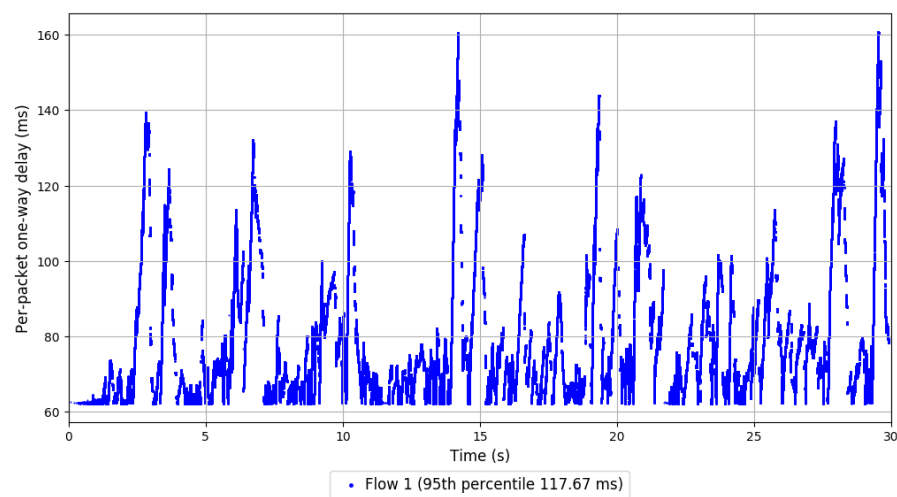
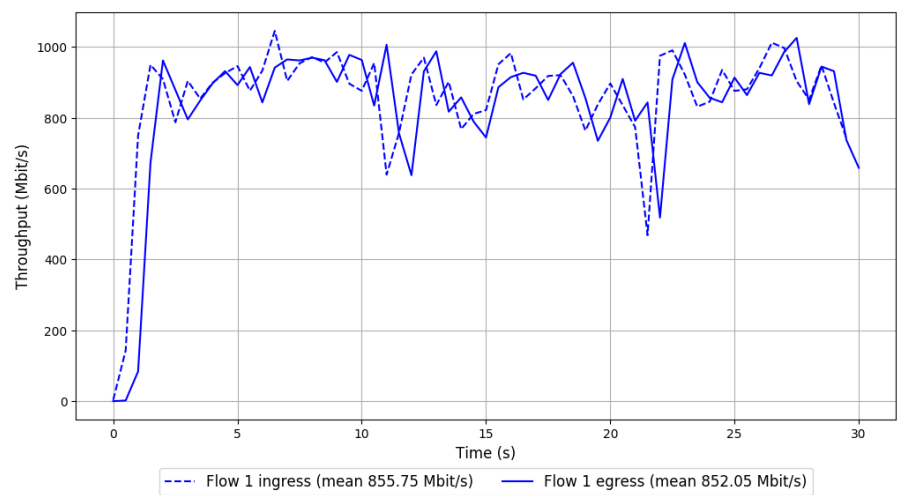
-- Flow 1:

Average throughput: 852.05 Mbit/s

95th percentile per-packet one-way delay: 117.675 ms

Loss rate: 0.84%

Run 4: Report of FillP-Sheep — Data Link

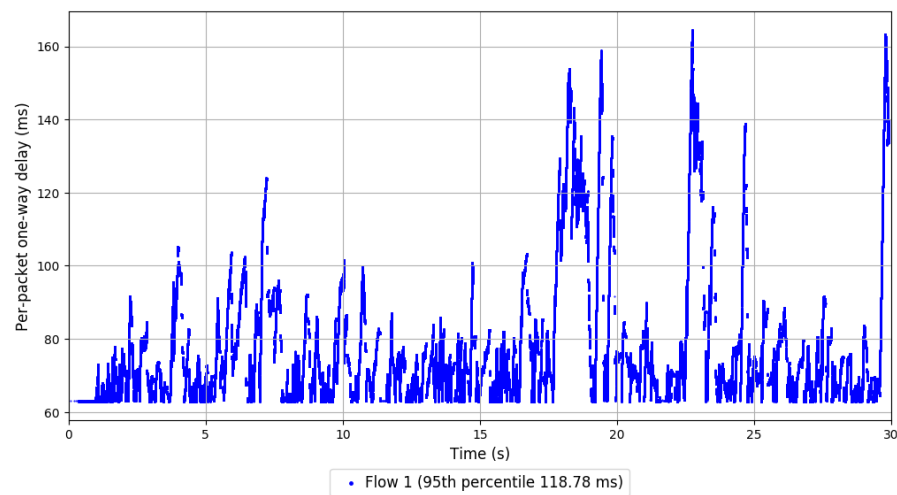
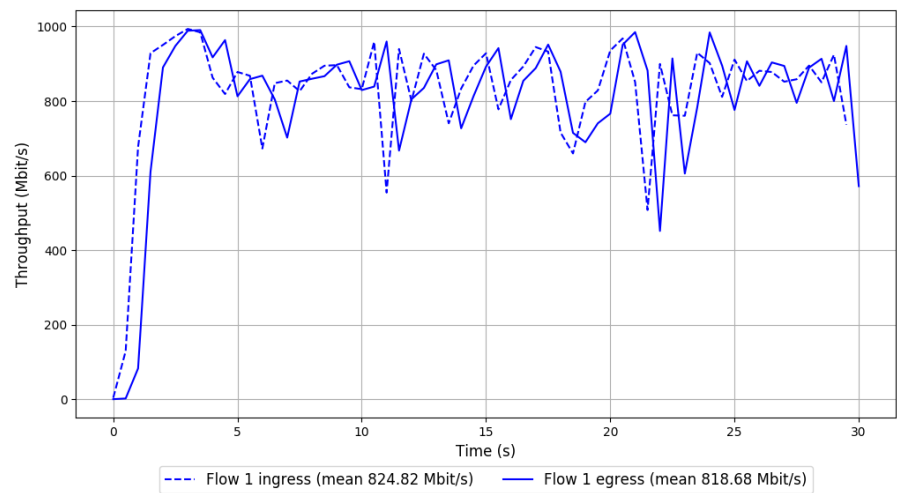


Run 5: Statistics of FillP-Sheep

Start at: 2019-08-27 06:14:21
End at: 2019-08-27 06:14:51
Local clock offset: -0.081 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2019-08-27 07:52:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 818.68 Mbit/s
95th percentile per-packet one-way delay: 118.782 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 818.68 Mbit/s
95th percentile per-packet one-way delay: 118.782 ms
Loss rate: 1.16%

Run 5: Report of FillP-Sheep — Data Link

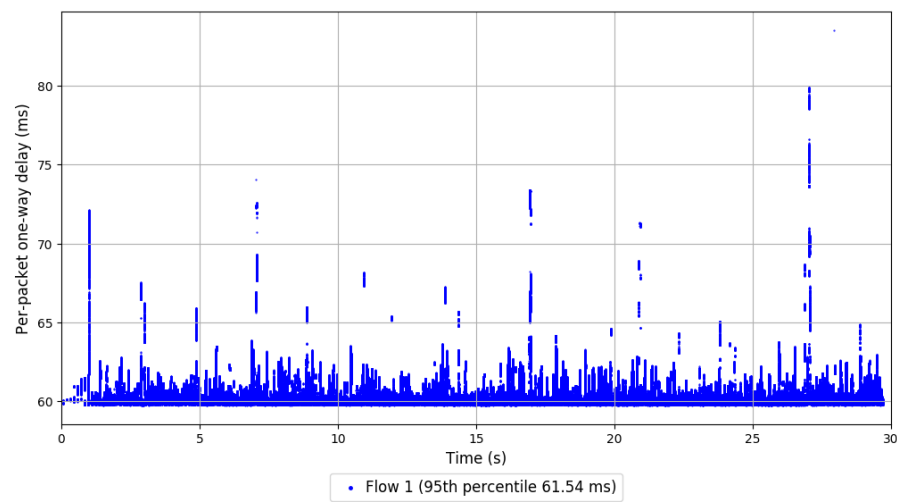
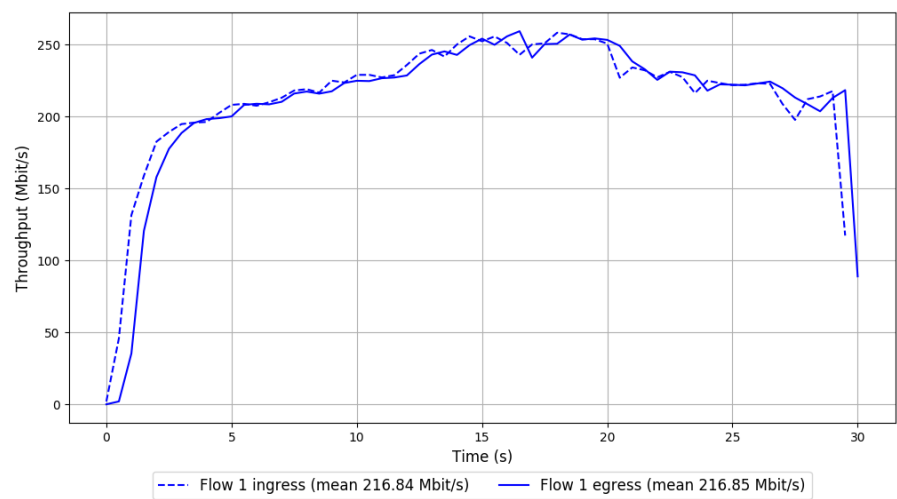


```
Run 1: Statistics of Indigo

Start at: 2019-08-27 04:18:12
End at: 2019-08-27 04:18:42
Local clock offset: 0.198 ms
Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-08-27 07:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.85 Mbit/s
95th percentile per-packet one-way delay: 61.538 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 216.85 Mbit/s
95th percentile per-packet one-way delay: 61.538 ms
Loss rate: 0.40%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-08-27 04:53:07

End at: 2019-08-27 04:53:37

Local clock offset: 0.525 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2019-08-27 07:52:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.97 Mbit/s

95th percentile per-packet one-way delay: 62.114 ms

Loss rate: 0.43%

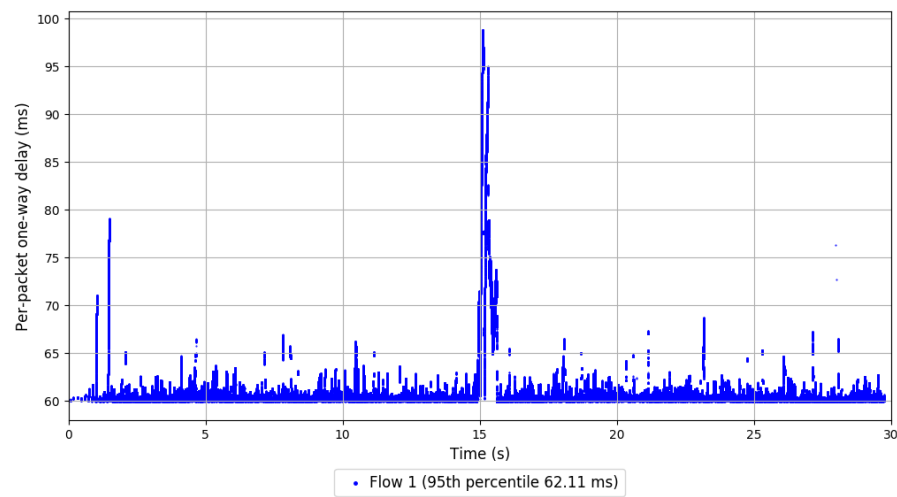
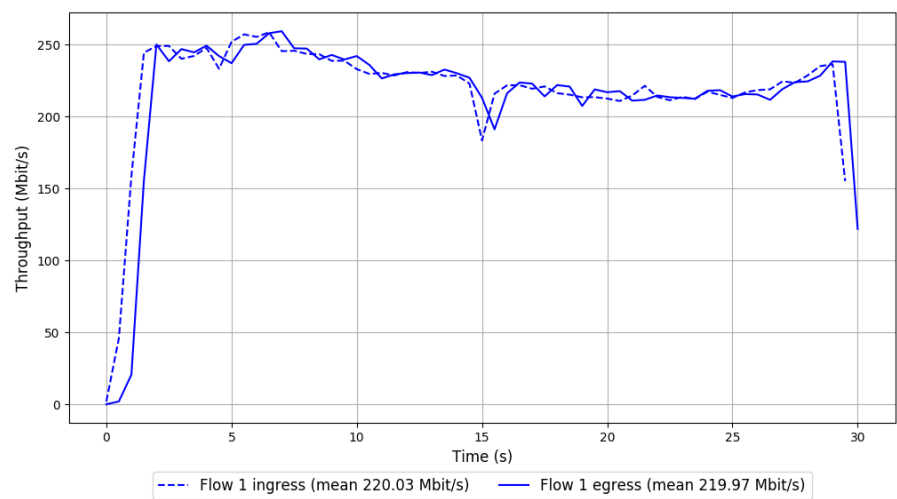
-- Flow 1:

Average throughput: 219.97 Mbit/s

95th percentile per-packet one-way delay: 62.114 ms

Loss rate: 0.43%

Run 2: Report of Indigo — Data Link

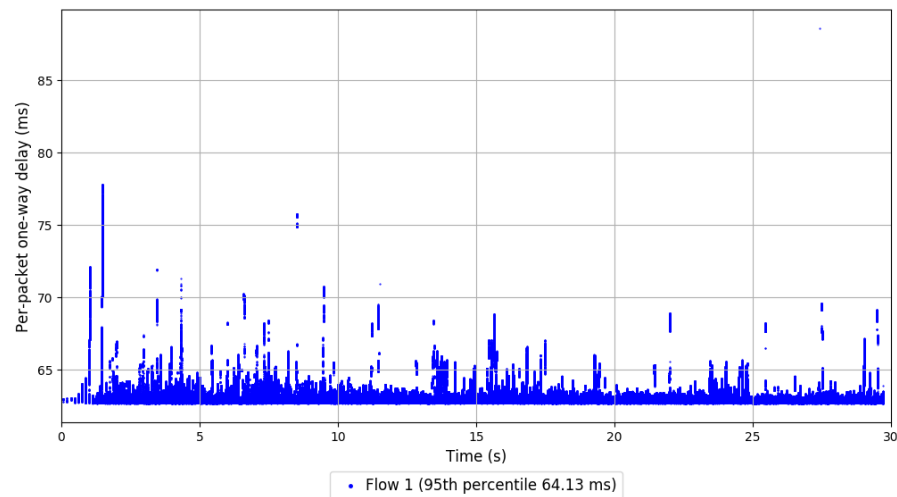
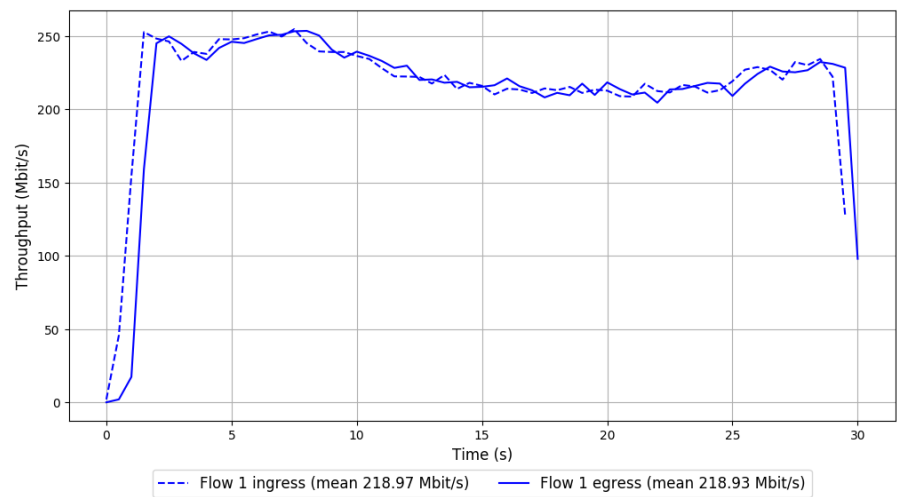


Run 3: Statistics of Indigo

Start at: 2019-08-27 05:27:50
End at: 2019-08-27 05:28:20
Local clock offset: -0.075 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2019-08-27 07:52:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 218.93 Mbit/s
95th percentile per-packet one-way delay: 64.131 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 218.93 Mbit/s
95th percentile per-packet one-way delay: 64.131 ms
Loss rate: 0.43%

Run 3: Report of Indigo — Data Link

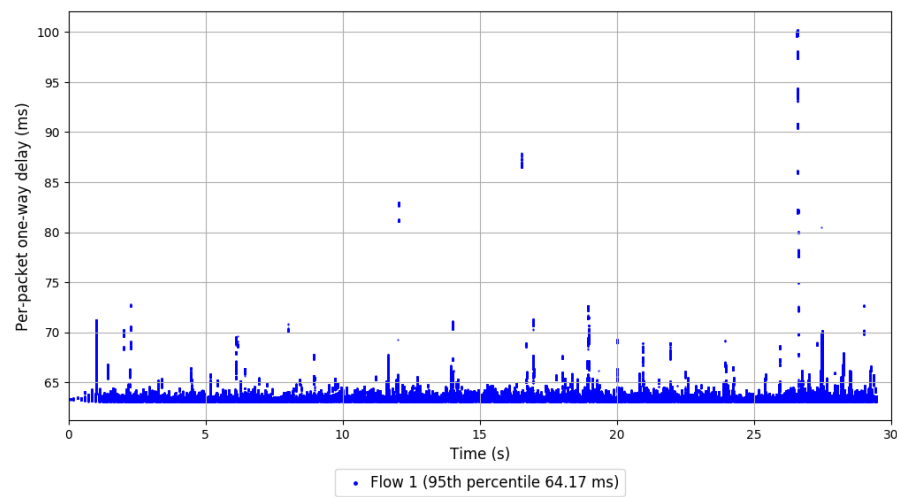
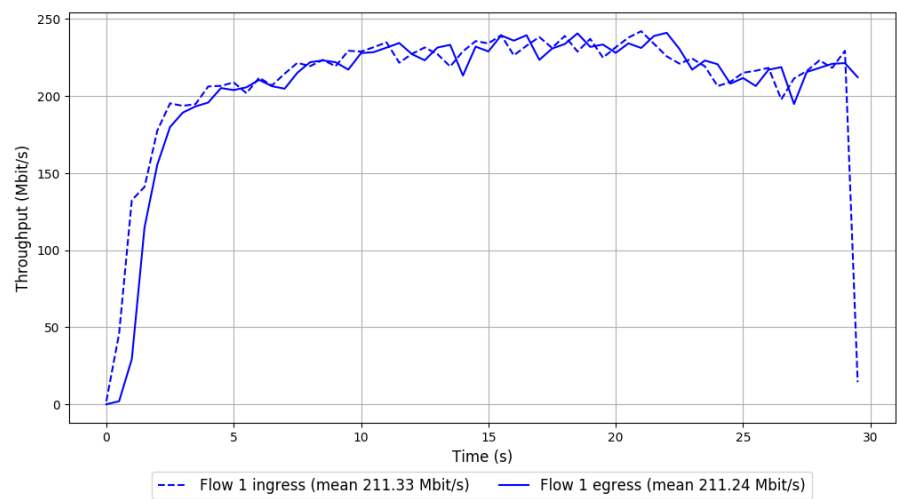


Run 4: Statistics of Indigo

Start at: 2019-08-27 06:02:41
End at: 2019-08-27 06:03:11
Local clock offset: -0.08 ms
Remote clock offset: -0.174 ms

Below is generated by plot.py at 2019-08-27 07:52:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 211.24 Mbit/s
95th percentile per-packet one-way delay: 64.165 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 211.24 Mbit/s
95th percentile per-packet one-way delay: 64.165 ms
Loss rate: 0.46%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-08-27 06:37:25

End at: 2019-08-27 06:37:56

Local clock offset: -0.066 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2019-08-27 07:52:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.83 Mbit/s

95th percentile per-packet one-way delay: 63.126 ms

Loss rate: 0.43%

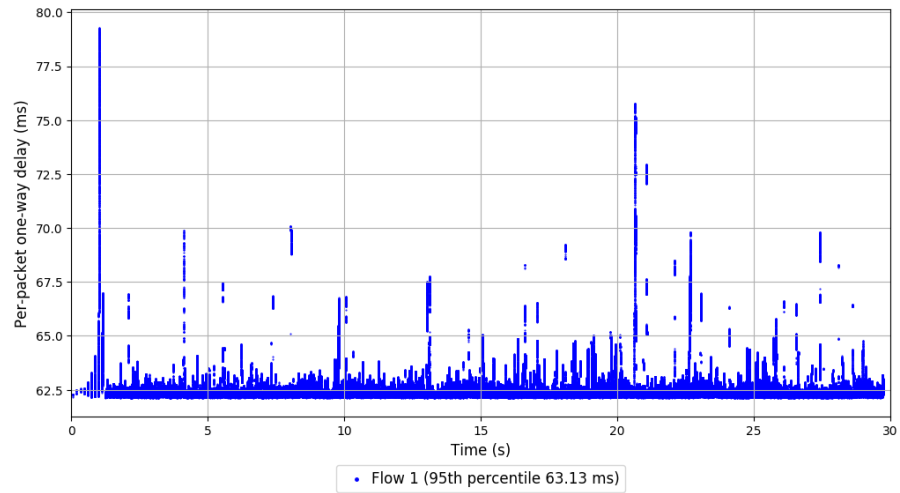
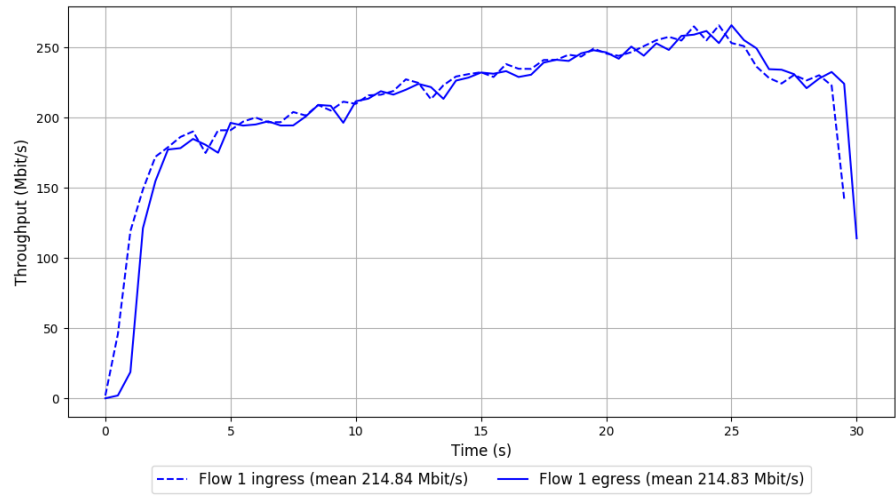
-- Flow 1:

Average throughput: 214.83 Mbit/s

95th percentile per-packet one-way delay: 63.126 ms

Loss rate: 0.43%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-27 04:28:37

End at: 2019-08-27 04:29:07

Local clock offset: 0.313 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2019-08-27 07:52:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 554.87 Mbit/s

95th percentile per-packet one-way delay: 79.912 ms

Loss rate: 0.43%

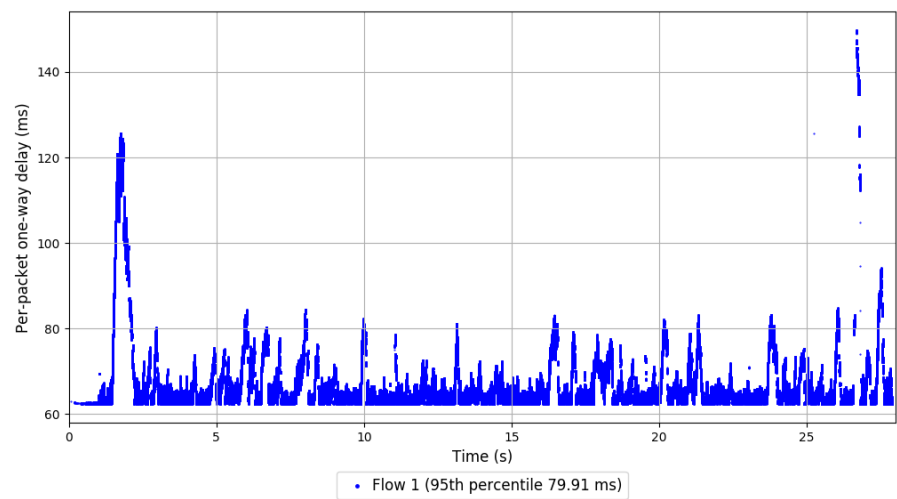
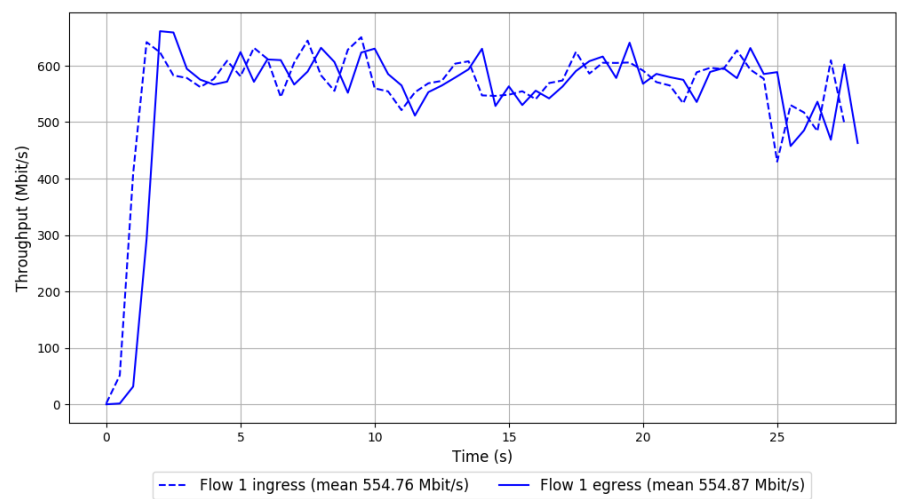
-- Flow 1:

Average throughput: 554.87 Mbit/s

95th percentile per-packet one-way delay: 79.912 ms

Loss rate: 0.43%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-27 05:03:32

End at: 2019-08-27 05:04:02

Local clock offset: 0.459 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2019-08-27 07:52:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 562.61 Mbit/s

95th percentile per-packet one-way delay: 87.096 ms

Loss rate: 0.44%

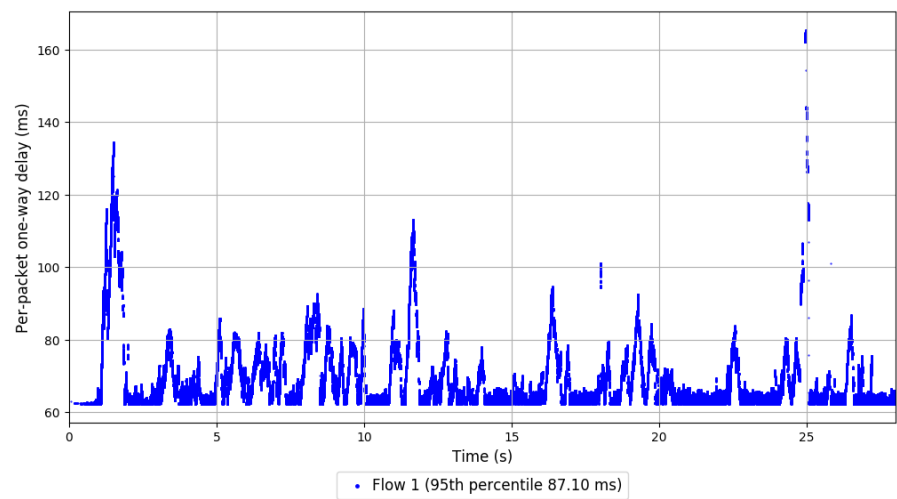
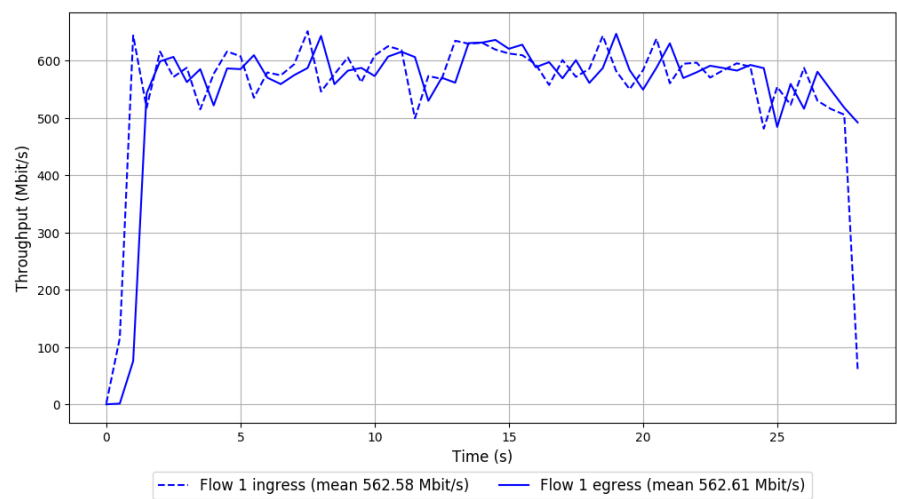
-- Flow 1:

Average throughput: 562.61 Mbit/s

95th percentile per-packet one-way delay: 87.096 ms

Loss rate: 0.44%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-27 05:38:07

End at: 2019-08-27 05:38:37

Local clock offset: -0.083 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2019-08-27 07:52:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.96 Mbit/s

95th percentile per-packet one-way delay: 76.064 ms

Loss rate: 0.31%

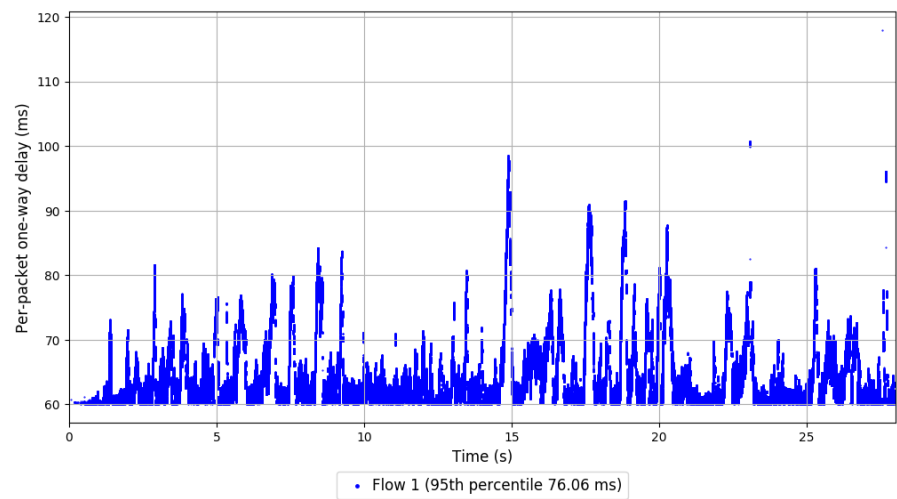
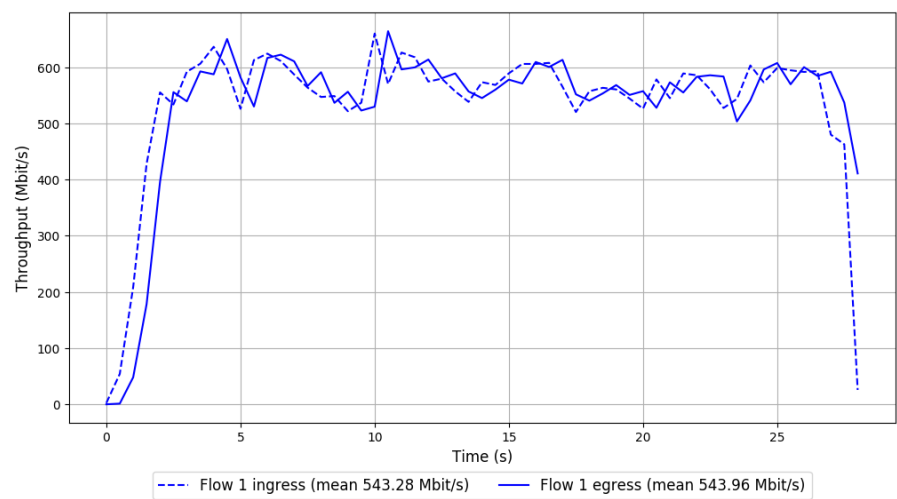
-- Flow 1:

Average throughput: 543.96 Mbit/s

95th percentile per-packet one-way delay: 76.064 ms

Loss rate: 0.31%

Run 3: Report of Indigo-MusesC3 — Data Link

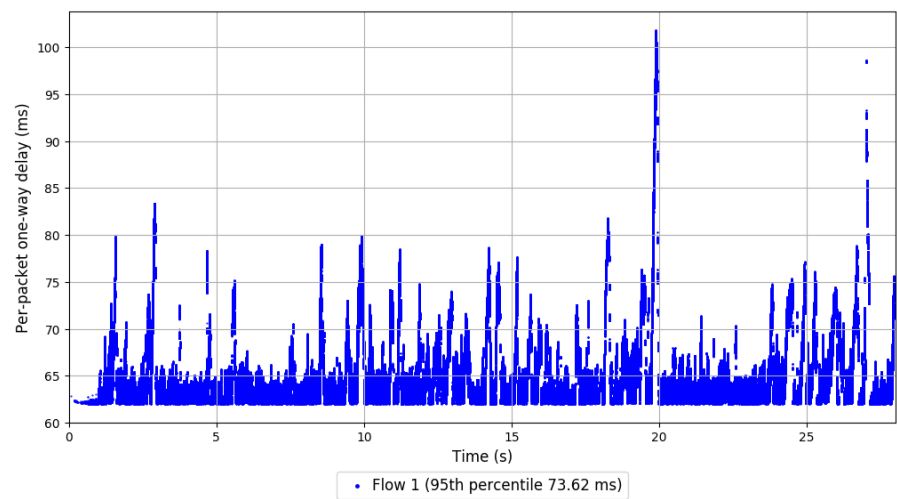
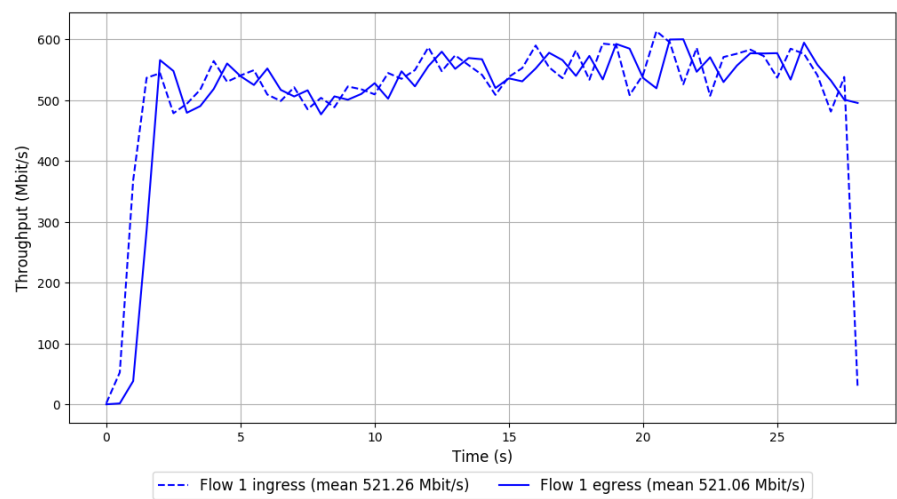


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-27 06:12:49
End at: 2019-08-27 06:13:19
Local clock offset: -0.083 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2019-08-27 07:52:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 521.06 Mbit/s
95th percentile per-packet one-way delay: 73.617 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 521.06 Mbit/s
95th percentile per-packet one-way delay: 73.617 ms
Loss rate: 0.48%

Run 4: Report of Indigo-MusesC3 — Data Link

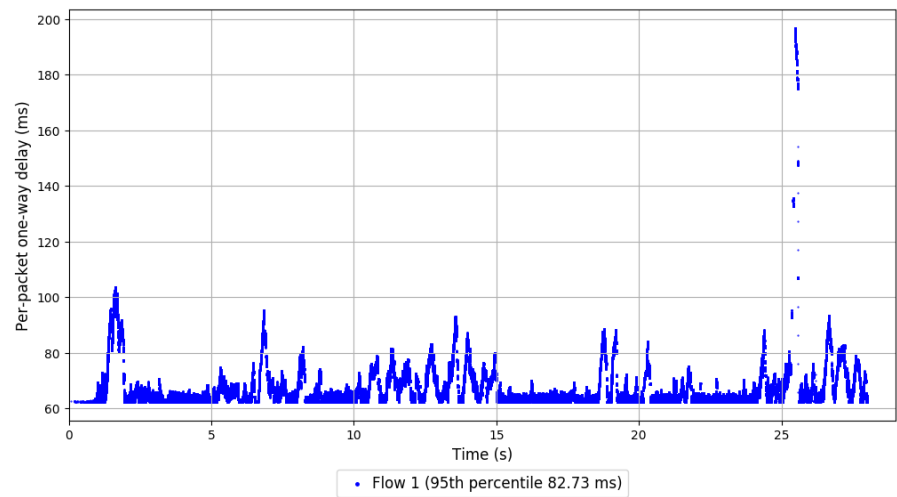
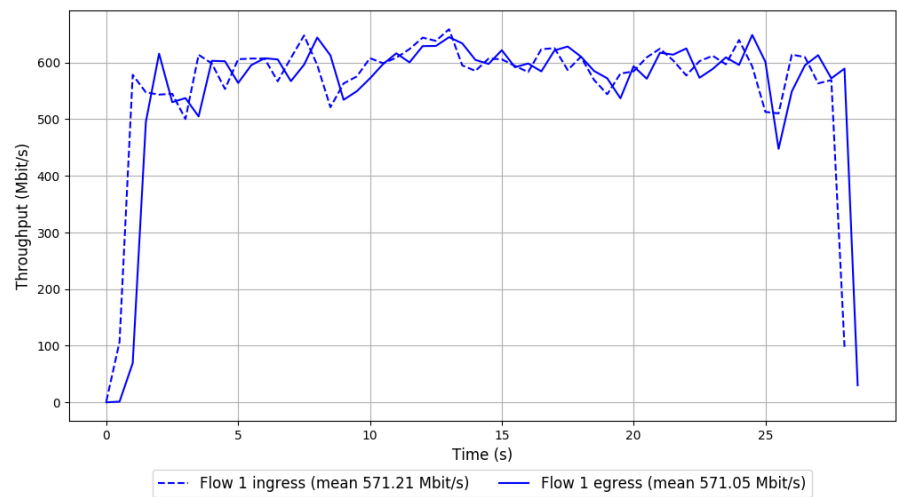


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-08-27 06:47:56
End at: 2019-08-27 06:48:26
Local clock offset: -0.076 ms
Remote clock offset: -0.155 ms

Below is generated by plot.py at 2019-08-27 07:52:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 571.05 Mbit/s
95th percentile per-packet one-way delay: 82.735 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 571.05 Mbit/s
95th percentile per-packet one-way delay: 82.735 ms
Loss rate: 0.47%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-27 04:12:56

End at: 2019-08-27 04:13:26

Local clock offset: 0.15 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2019-08-27 07:53:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 567.36 Mbit/s

95th percentile per-packet one-way delay: 93.394 ms

Loss rate: 0.46%

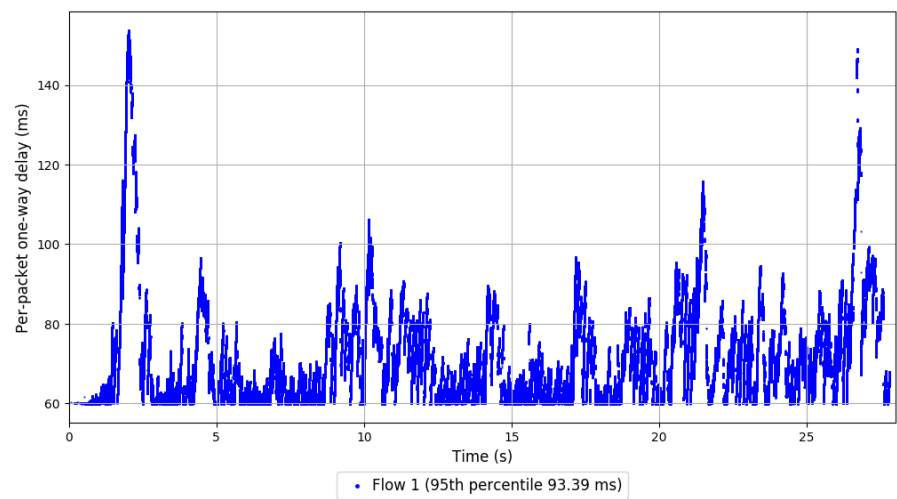
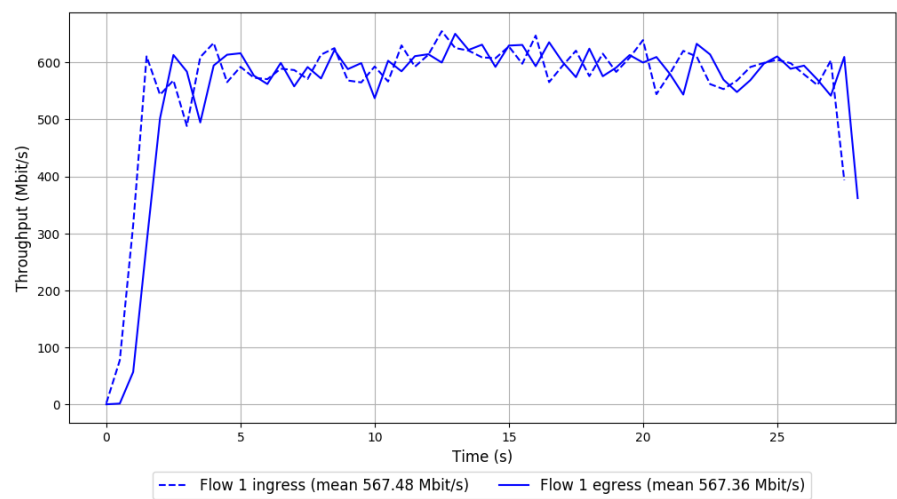
-- Flow 1:

Average throughput: 567.36 Mbit/s

95th percentile per-packet one-way delay: 93.394 ms

Loss rate: 0.46%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-27 04:47:53

End at: 2019-08-27 04:48:23

Local clock offset: 0.521 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2019-08-27 07:56:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 554.52 Mbit/s

95th percentile per-packet one-way delay: 111.532 ms

Loss rate: 0.55%

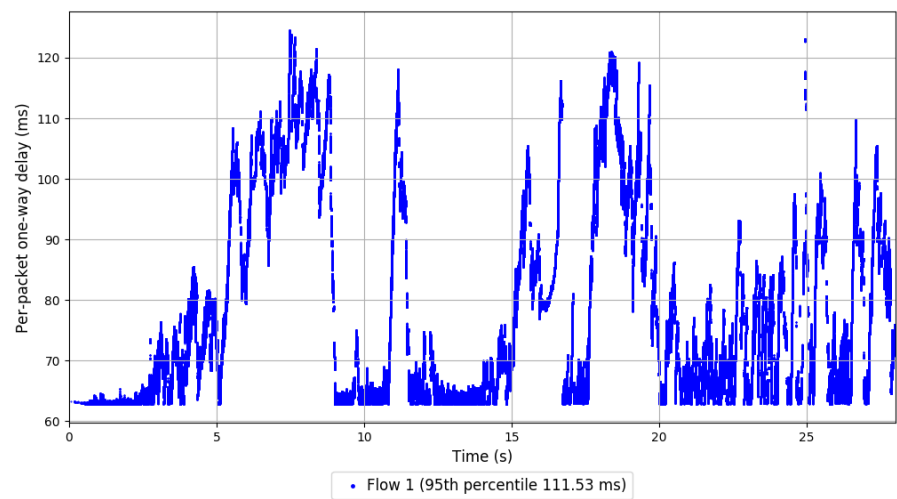
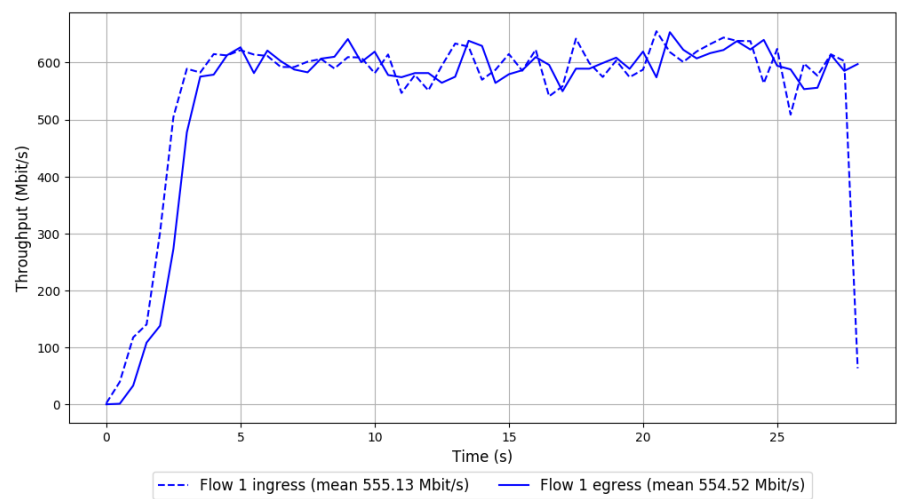
-- Flow 1:

Average throughput: 554.52 Mbit/s

95th percentile per-packet one-way delay: 111.532 ms

Loss rate: 0.55%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-27 05:22:32

End at: 2019-08-27 05:23:02

Local clock offset: -0.03 ms

Remote clock offset: -0.106 ms

Below is generated by plot.py at 2019-08-27 07:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 566.03 Mbit/s

95th percentile per-packet one-way delay: 95.363 ms

Loss rate: 0.47%

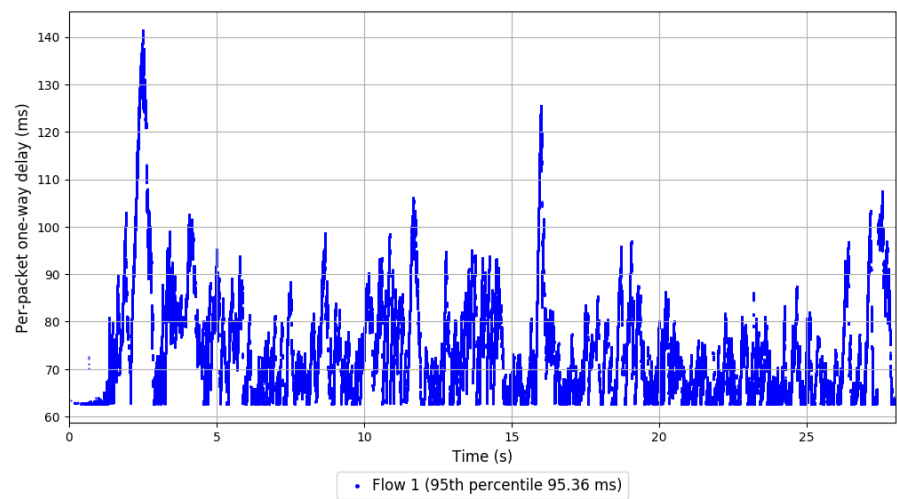
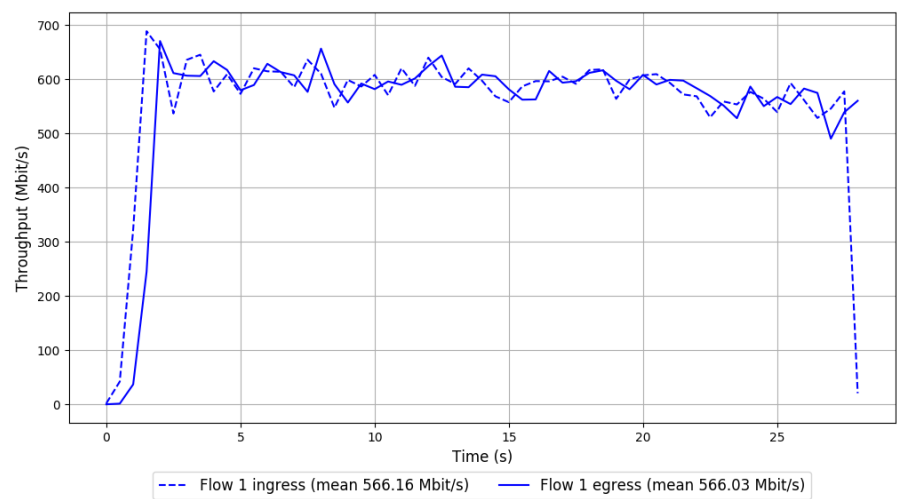
-- Flow 1:

Average throughput: 566.03 Mbit/s

95th percentile per-packet one-way delay: 95.363 ms

Loss rate: 0.47%

Run 3: Report of Indigo-MusesC5 — Data Link

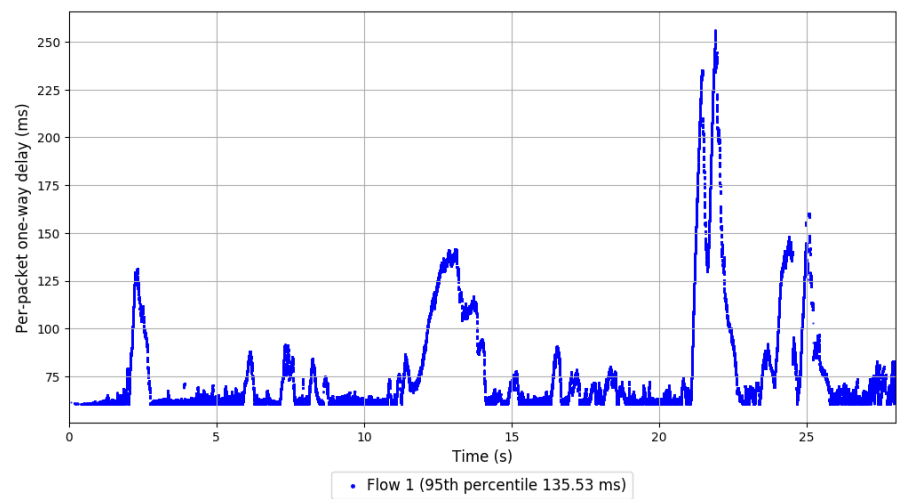
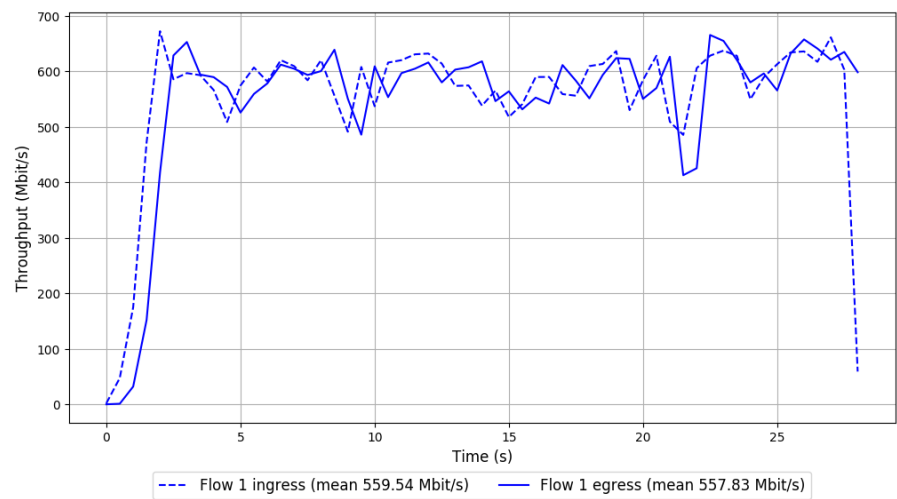


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-27 05:57:22
End at: 2019-08-27 05:57:52
Local clock offset: -0.062 ms
Remote clock offset: -0.441 ms

Below is generated by plot.py at 2019-08-27 08:00:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 557.83 Mbit/s
95th percentile per-packet one-way delay: 135.533 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 557.83 Mbit/s
95th percentile per-packet one-way delay: 135.533 ms
Loss rate: 0.74%

Run 4: Report of Indigo-MusesC5 — Data Link

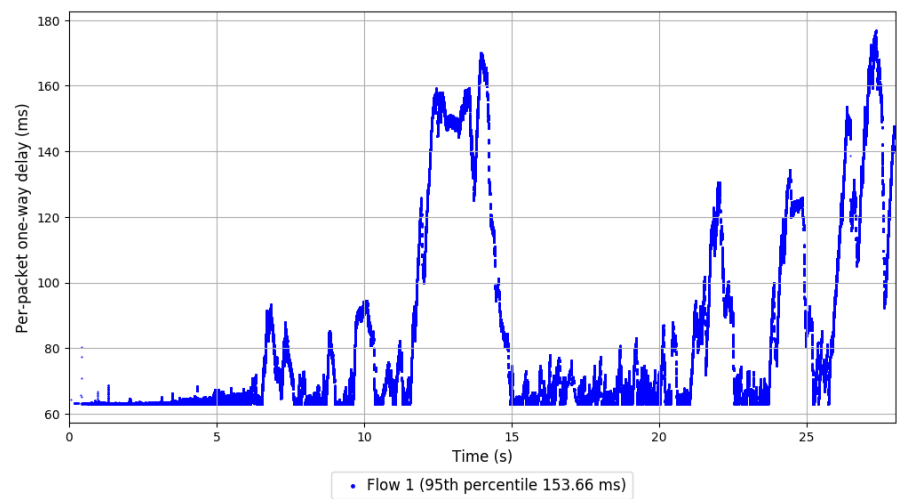
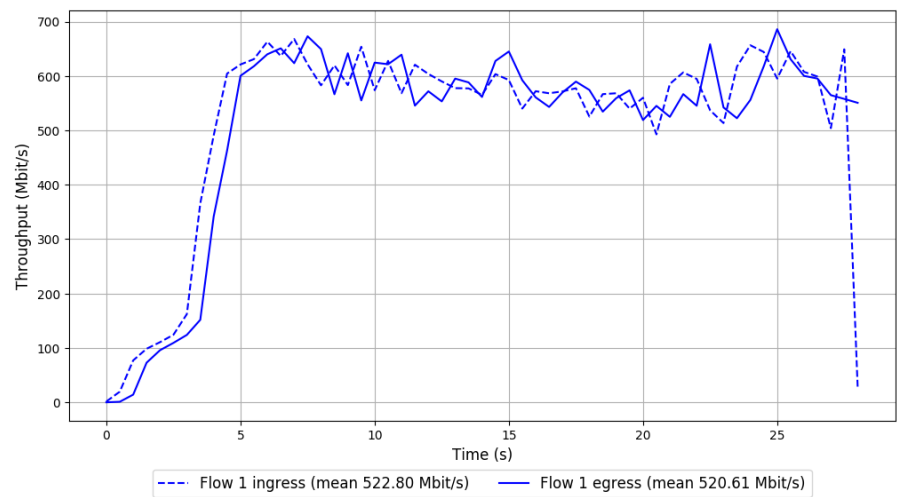


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-08-27 06:32:11
End at: 2019-08-27 06:32:41
Local clock offset: -0.057 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2019-08-27 08:00:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 520.61 Mbit/s
95th percentile per-packet one-way delay: 153.660 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 520.61 Mbit/s
95th percentile per-packet one-way delay: 153.660 ms
Loss rate: 0.87%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-27 04:19:40

End at: 2019-08-27 04:20:10

Local clock offset: 0.245 ms

Remote clock offset: -0.003 ms

Below is generated by plot.py at 2019-08-27 08:00:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 457.89 Mbit/s

95th percentile per-packet one-way delay: 96.282 ms

Loss rate: 0.62%

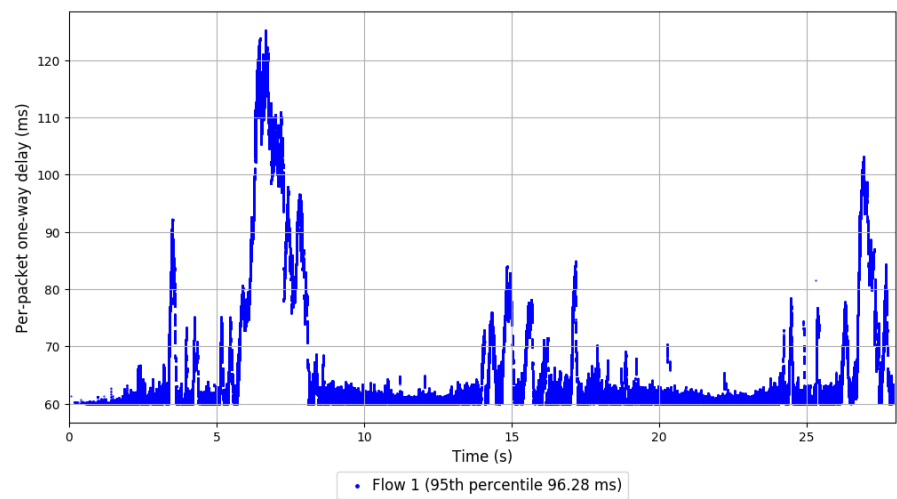
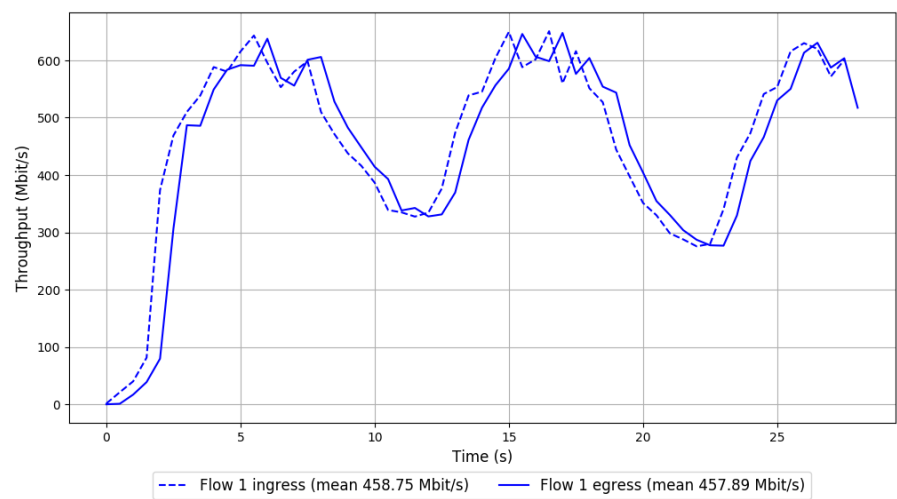
-- Flow 1:

Average throughput: 457.89 Mbit/s

95th percentile per-packet one-way delay: 96.282 ms

Loss rate: 0.62%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-27 04:54:36

End at: 2019-08-27 04:55:06

Local clock offset: 0.555 ms

Remote clock offset: -0.781 ms

Below is generated by plot.py at 2019-08-27 08:00:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 487.67 Mbit/s

95th percentile per-packet one-way delay: 78.755 ms

Loss rate: 0.34%

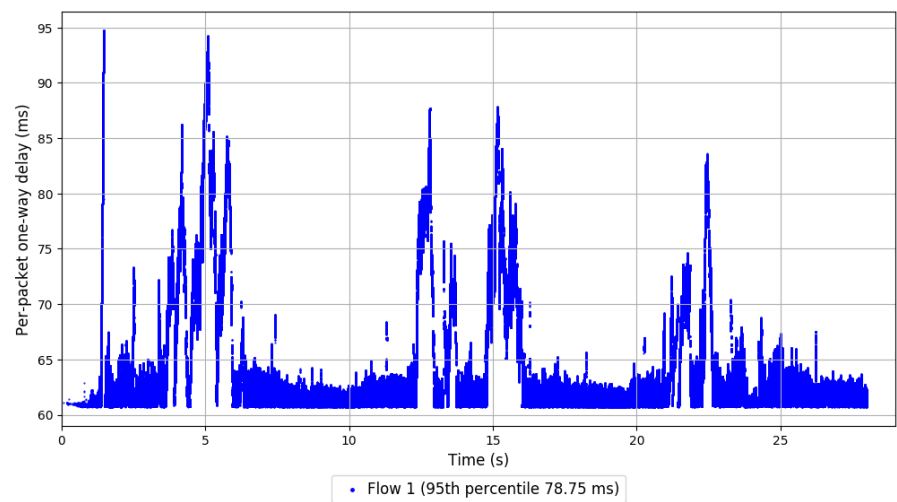
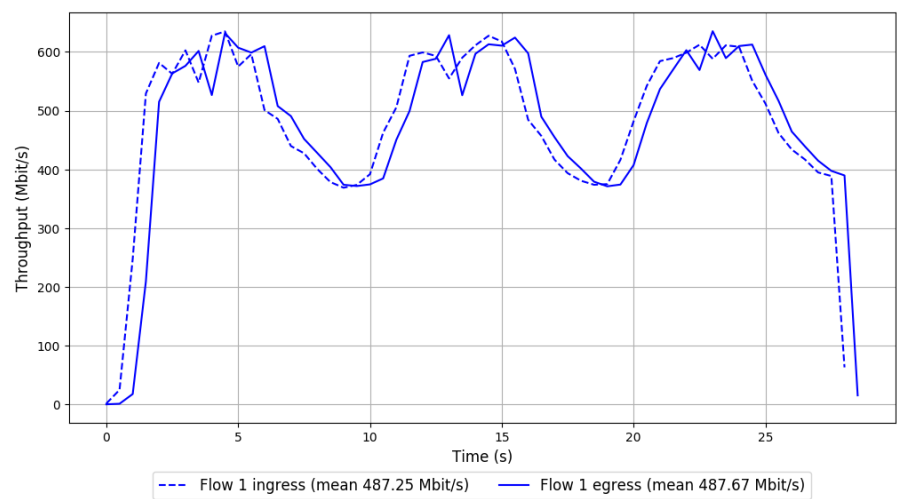
-- Flow 1:

Average throughput: 487.67 Mbit/s

95th percentile per-packet one-way delay: 78.755 ms

Loss rate: 0.34%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-27 05:29:18

End at: 2019-08-27 05:29:48

Local clock offset: -0.081 ms

Remote clock offset: -0.177 ms

Below is generated by plot.py at 2019-08-27 08:00:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 472.76 Mbit/s

95th percentile per-packet one-way delay: 92.761 ms

Loss rate: 0.41%

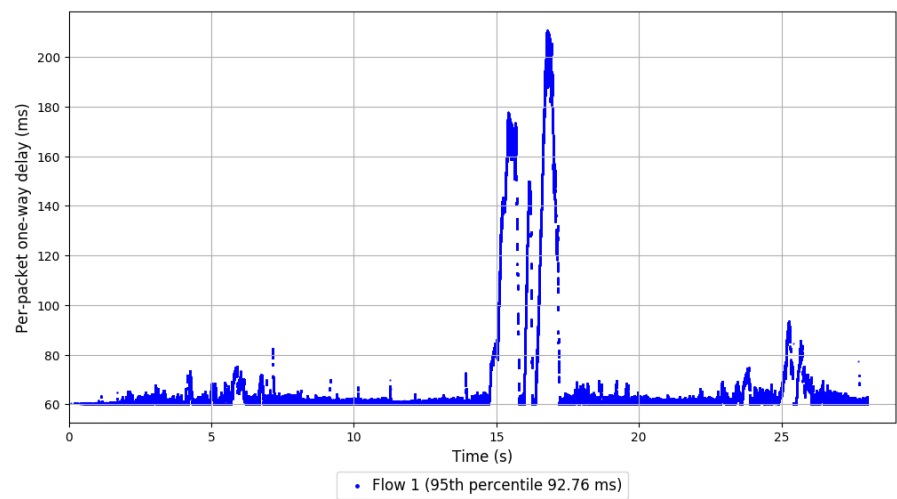
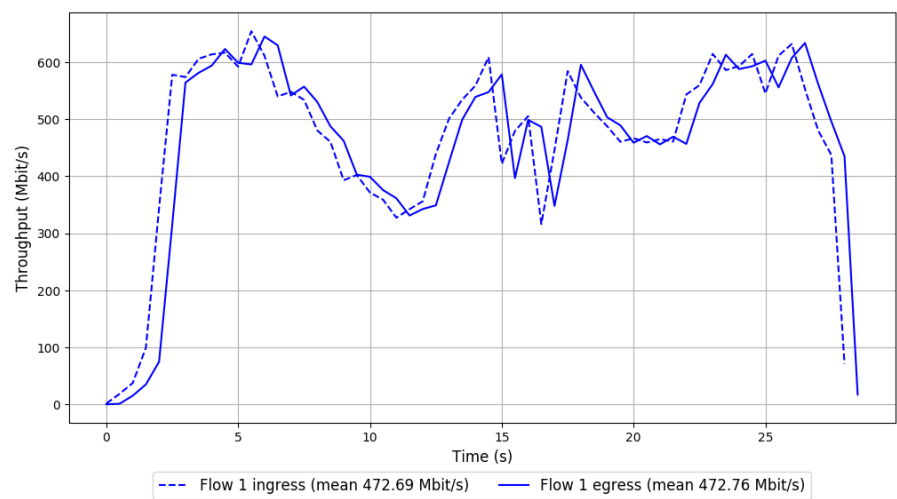
-- Flow 1:

Average throughput: 472.76 Mbit/s

95th percentile per-packet one-way delay: 92.761 ms

Loss rate: 0.41%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-08-27 06:04:08

End at: 2019-08-27 06:04:38

Local clock offset: -0.084 ms

Remote clock offset: -0.176 ms

Below is generated by plot.py at 2019-08-27 08:01:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 479.34 Mbit/s

95th percentile per-packet one-way delay: 76.350 ms

Loss rate: 0.50%

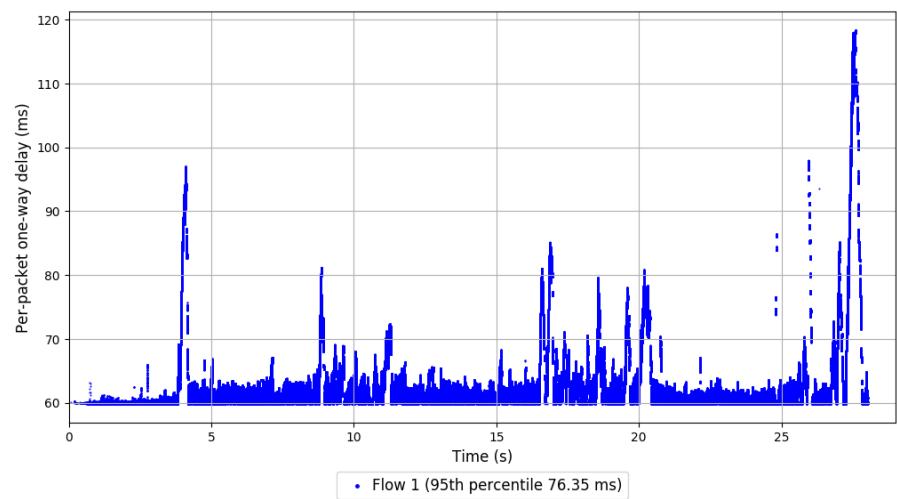
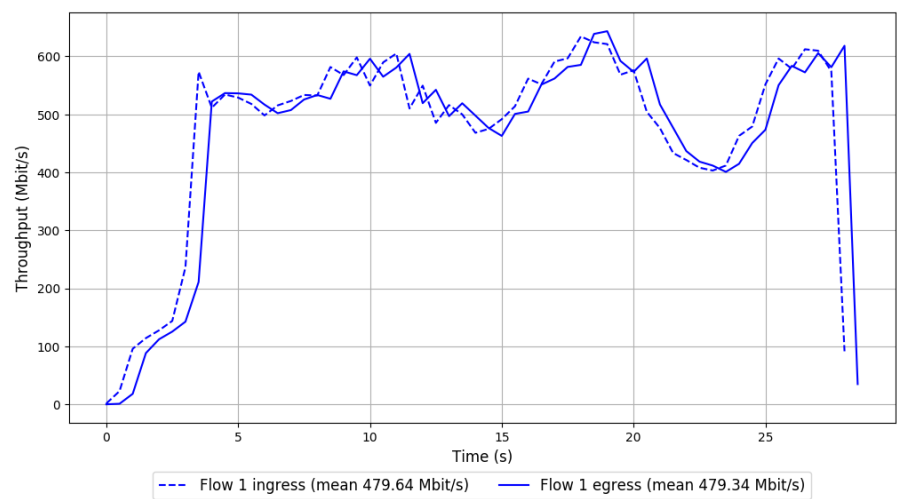
-- Flow 1:

Average throughput: 479.34 Mbit/s

95th percentile per-packet one-way delay: 76.350 ms

Loss rate: 0.50%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-08-27 06:38:53

End at: 2019-08-27 06:39:23

Local clock offset: -0.068 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2019-08-27 08:06:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 562.33 Mbit/s

95th percentile per-packet one-way delay: 88.443 ms

Loss rate: 0.52%

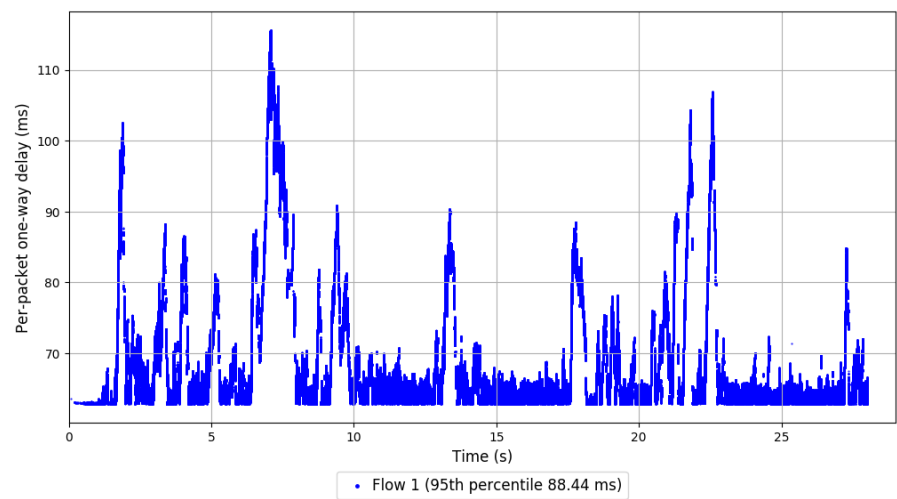
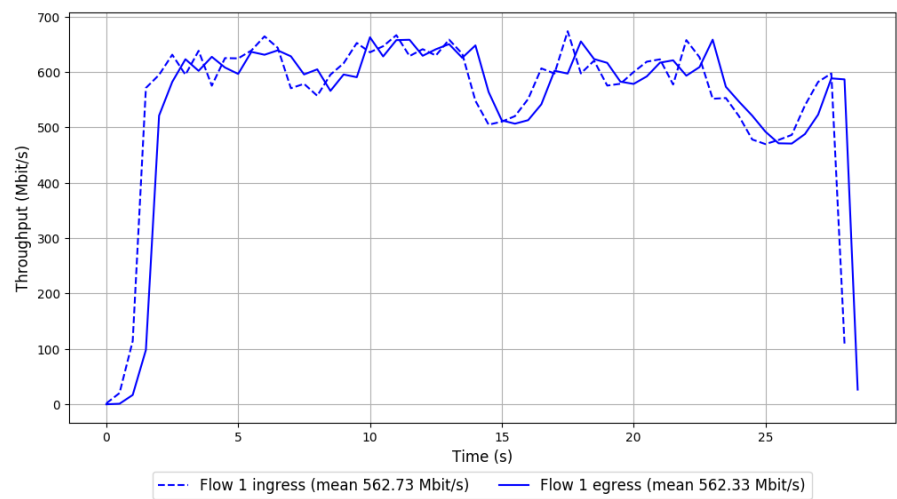
-- Flow 1:

Average throughput: 562.33 Mbit/s

95th percentile per-packet one-way delay: 88.443 ms

Loss rate: 0.52%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

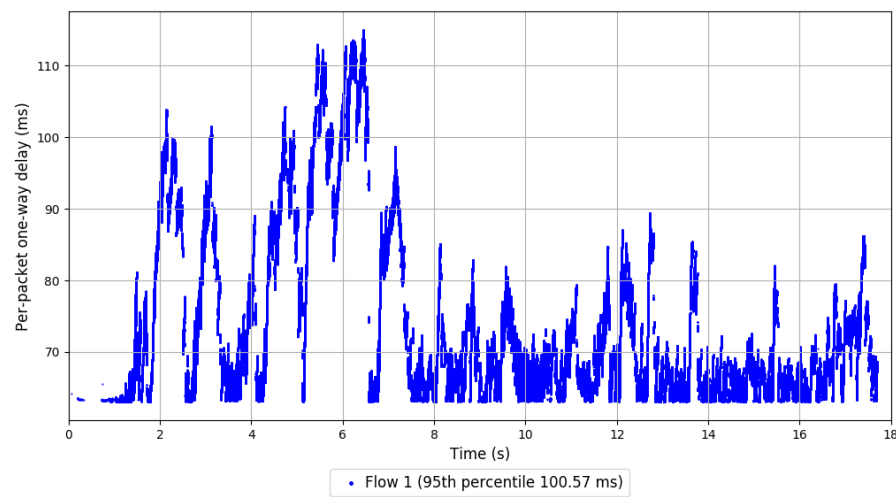
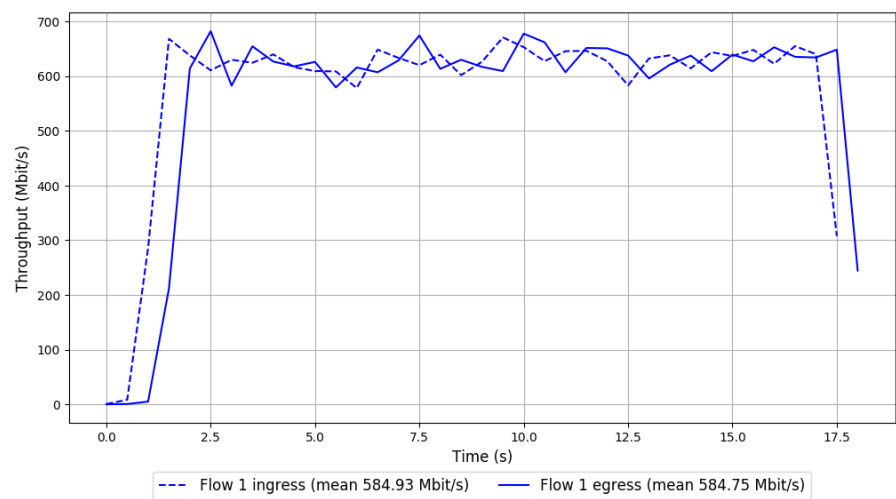
Start at: 2019-08-27 04:11:31

End at: 2019-08-27 04:12:01

Local clock offset: 0.098 ms

Remote clock offset: -0.567 ms

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-27 04:46:18

End at: 2019-08-27 04:46:48

Local clock offset: 0.464 ms

Remote clock offset: 0.101 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 600.41 Mbit/s

95th percentile per-packet one-way delay: 117.588 ms

Loss rate: 0.46%

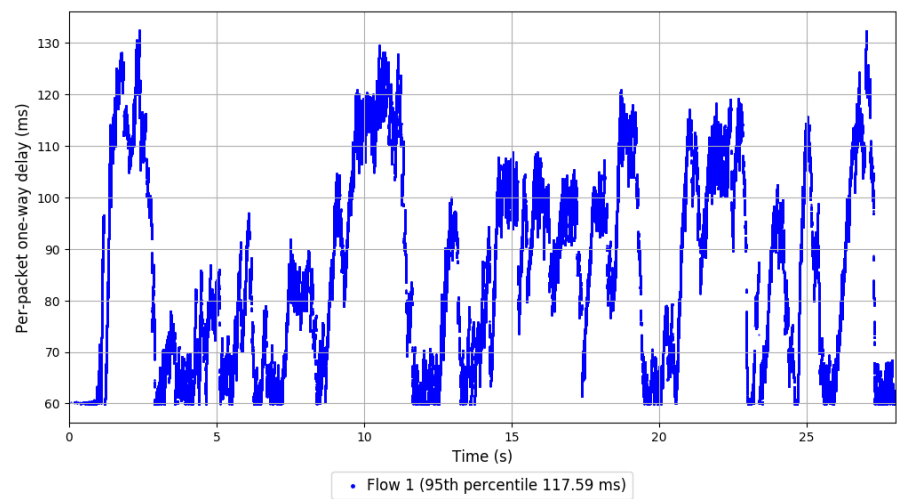
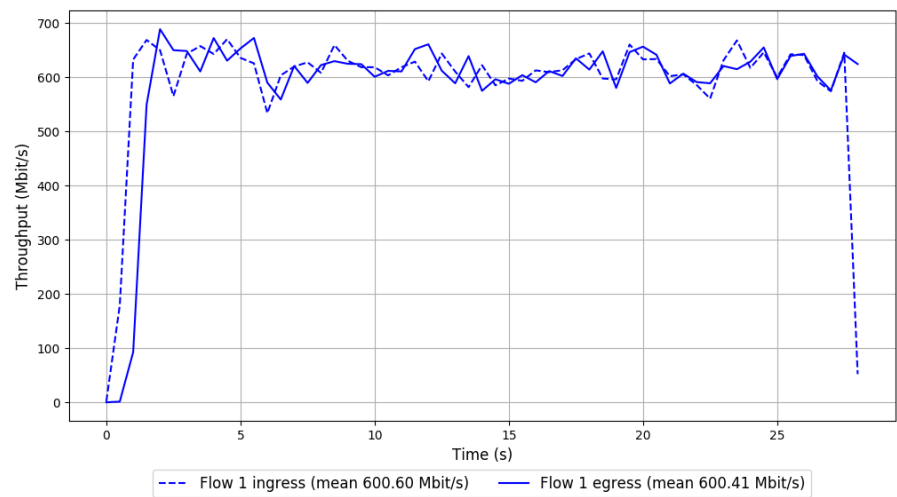
-- Flow 1:

Average throughput: 600.41 Mbit/s

95th percentile per-packet one-way delay: 117.588 ms

Loss rate: 0.46%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-27 05:20:58

End at: 2019-08-27 05:21:28

Local clock offset: -0.027 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2019-08-27 08:09:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 589.55 Mbit/s

95th percentile per-packet one-way delay: 103.304 ms

Loss rate: 0.49%

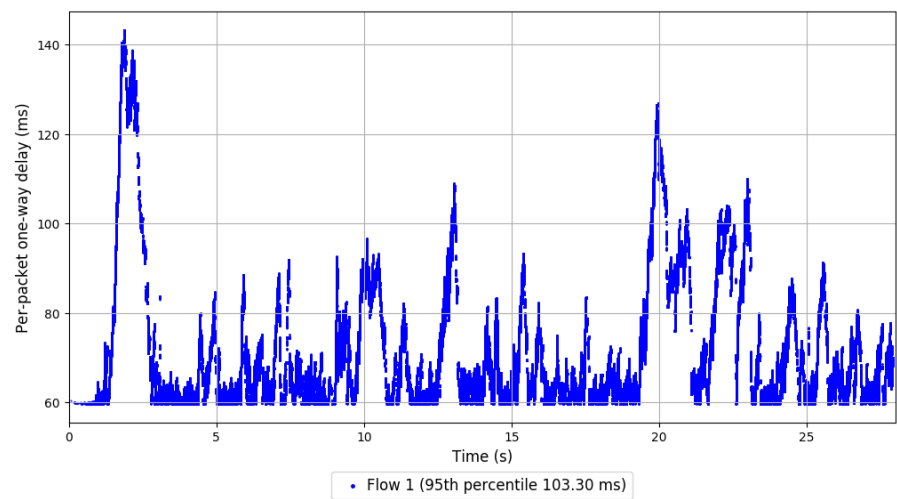
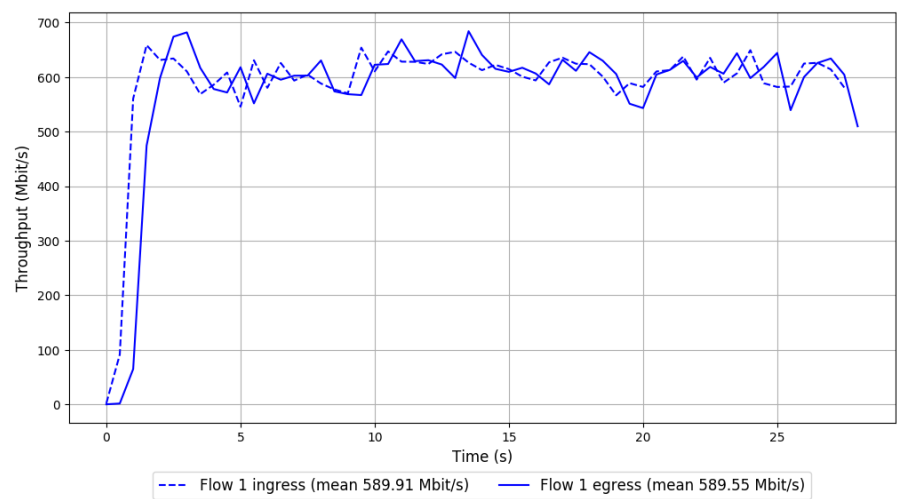
-- Flow 1:

Average throughput: 589.55 Mbit/s

95th percentile per-packet one-way delay: 103.304 ms

Loss rate: 0.49%

Run 3: Report of Indigo-MusesT — Data Link

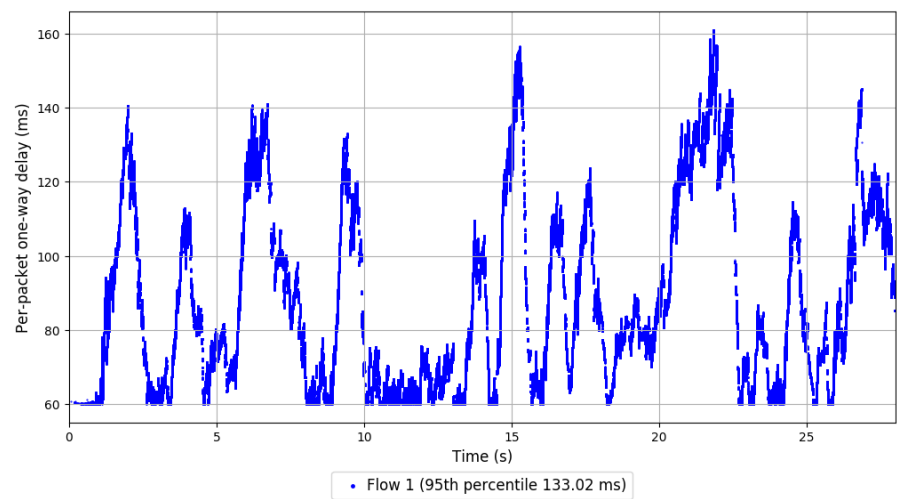
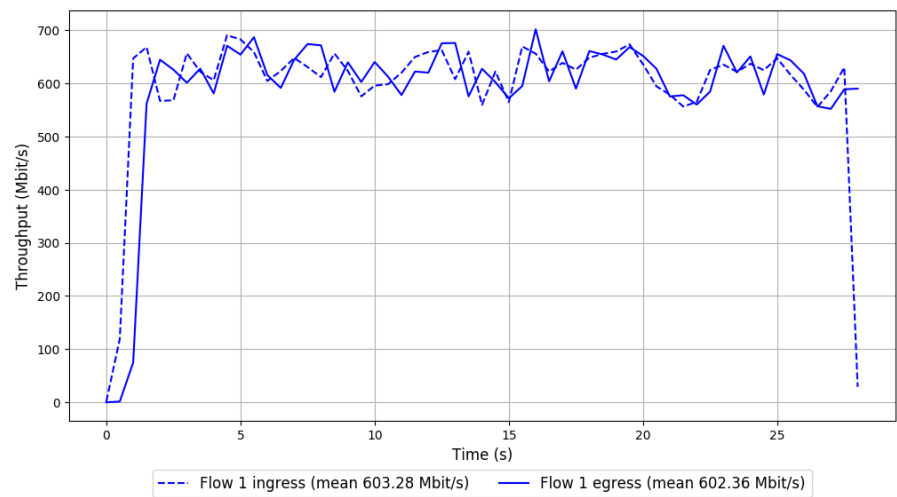


Run 4: Statistics of Indigo-MusesT

Start at: 2019-08-27 05:55:47
End at: 2019-08-27 05:56:17
Local clock offset: -0.053 ms
Remote clock offset: -0.303 ms

Below is generated by plot.py at 2019-08-27 08:10:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 602.36 Mbit/s
95th percentile per-packet one-way delay: 133.019 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 602.36 Mbit/s
95th percentile per-packet one-way delay: 133.019 ms
Loss rate: 0.59%

Run 4: Report of Indigo-MusesT — Data Link

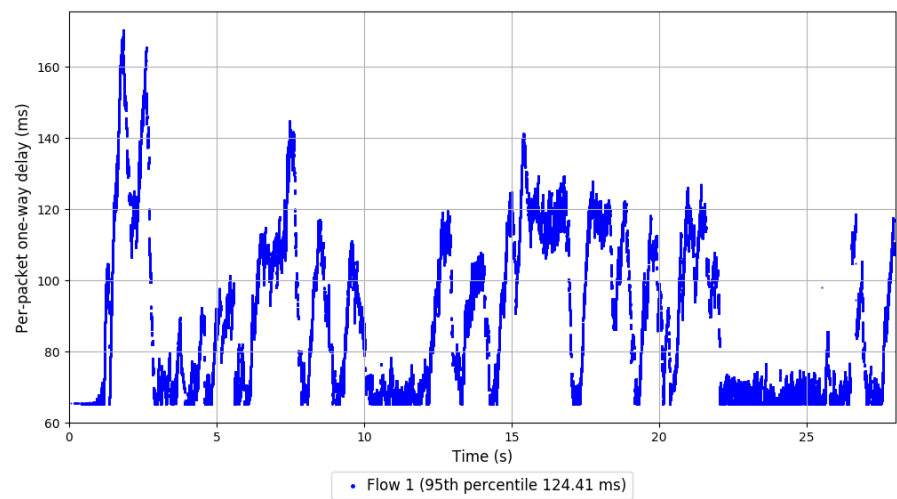
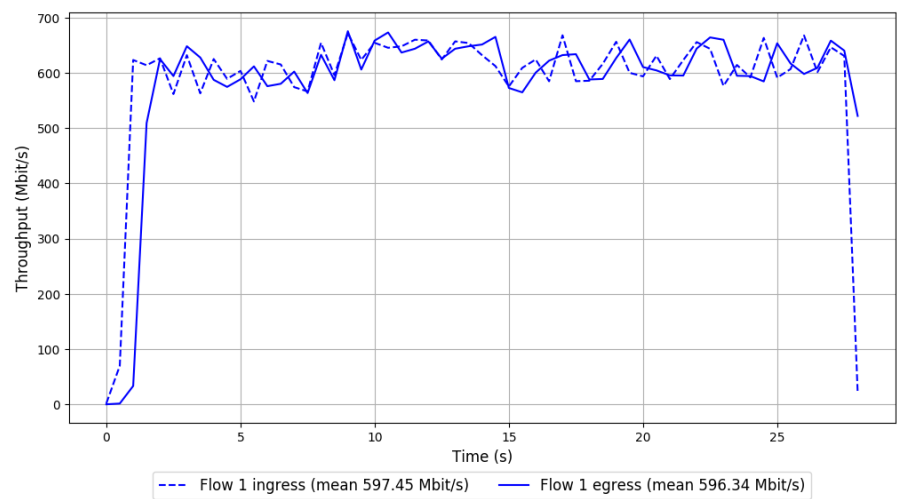


Run 5: Statistics of Indigo-MusesT

Start at: 2019-08-27 06:30:36
End at: 2019-08-27 06:31:06
Local clock offset: -0.049 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2019-08-27 08:10:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 596.34 Mbit/s
95th percentile per-packet one-way delay: 124.407 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 596.34 Mbit/s
95th percentile per-packet one-way delay: 124.407 ms
Loss rate: 0.65%

Run 5: Report of Indigo-MusesT — Data Link

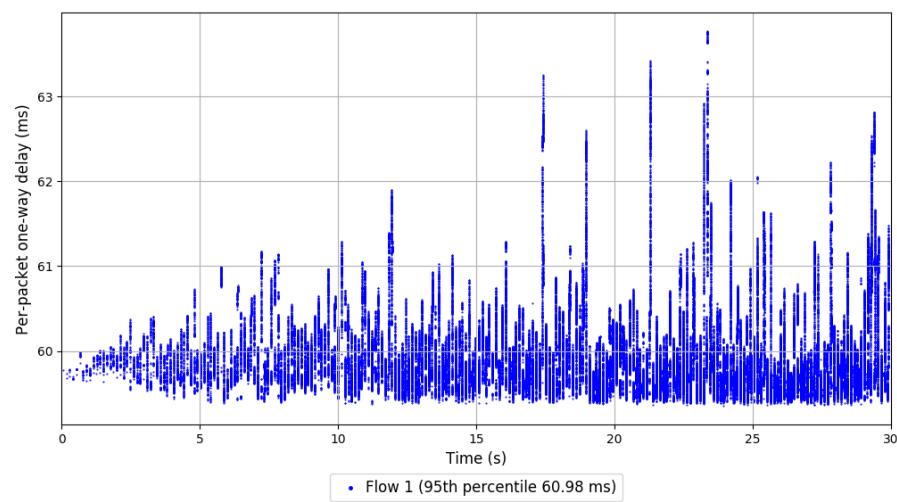
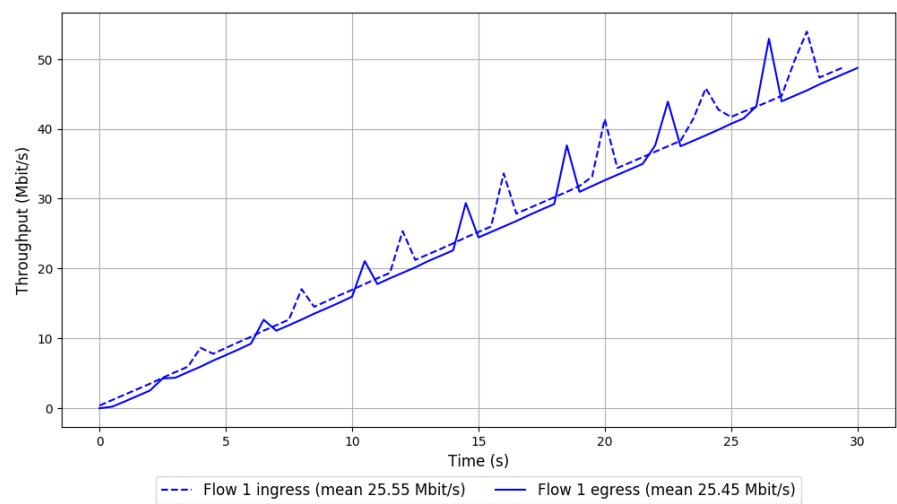


```
Run 1: Statistics of LEDBAT

Start at: 2019-08-27 04:15:38
End at: 2019-08-27 04:16:08
Local clock offset: 0.188 ms
Remote clock offset: 0.584 ms

# Below is generated by plot.py at 2019-08-27 08:10:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.45 Mbit/s
95th percentile per-packet one-way delay: 60.980 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 25.45 Mbit/s
95th percentile per-packet one-way delay: 60.980 ms
Loss rate: 0.80%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-08-27 04:50:39

End at: 2019-08-27 04:51:09

Local clock offset: 0.498 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2019-08-27 08:10:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.66 Mbit/s

95th percentile per-packet one-way delay: 64.249 ms

Loss rate: 0.76%

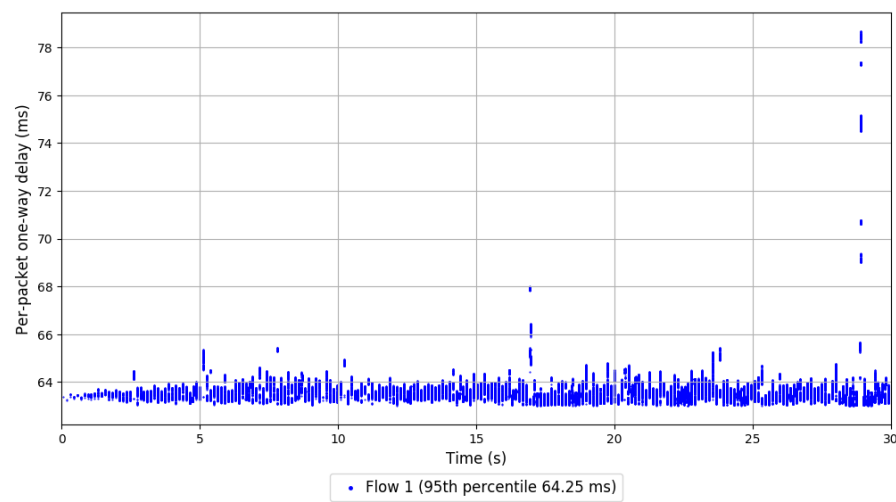
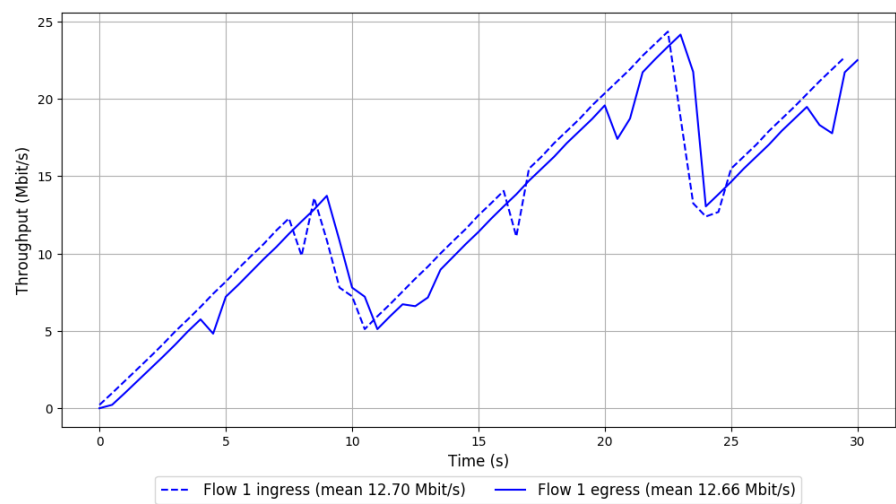
-- Flow 1:

Average throughput: 12.66 Mbit/s

95th percentile per-packet one-way delay: 64.249 ms

Loss rate: 0.76%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-08-27 05:25:17

End at: 2019-08-27 05:25:47

Local clock offset: -0.025 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2019-08-27 08:10:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.67 Mbit/s

95th percentile per-packet one-way delay: 63.707 ms

Loss rate: 0.85%

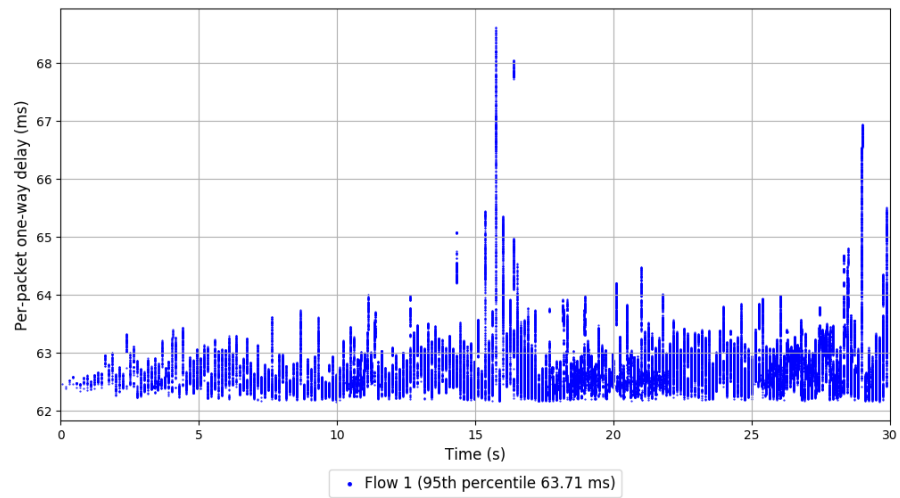
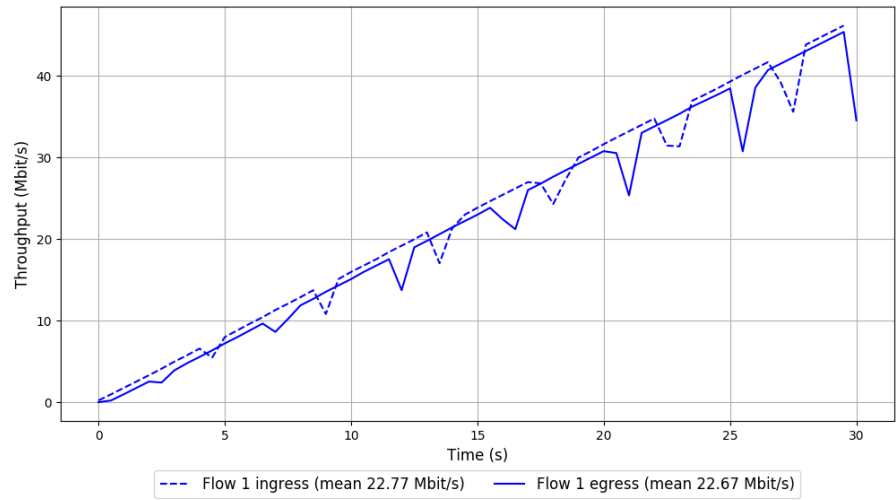
-- Flow 1:

Average throughput: 22.67 Mbit/s

95th percentile per-packet one-way delay: 63.707 ms

Loss rate: 0.85%

Run 3: Report of LEDBAT — Data Link

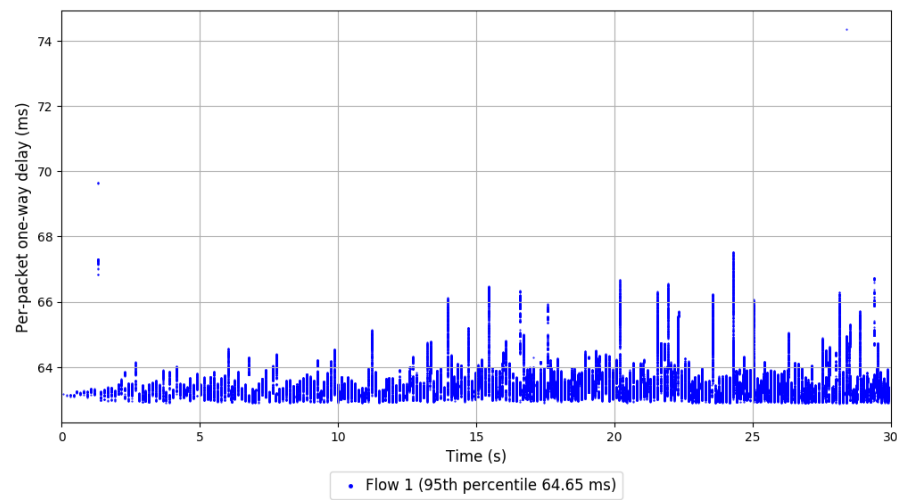
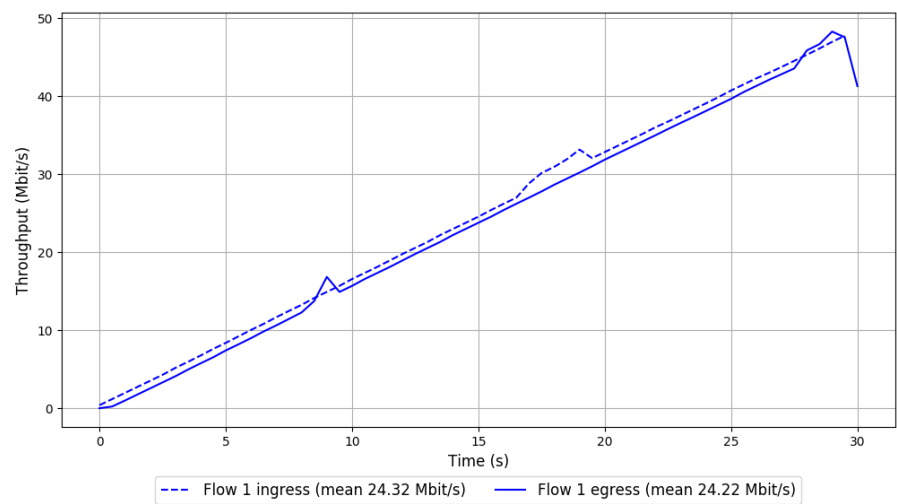


Run 4: Statistics of LEDBAT

Start at: 2019-08-27 06:00:07
End at: 2019-08-27 06:00:37
Local clock offset: -0.065 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2019-08-27 08:10:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 64.648 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 64.648 ms
Loss rate: 0.82%

Run 4: Report of LEDBAT — Data Link

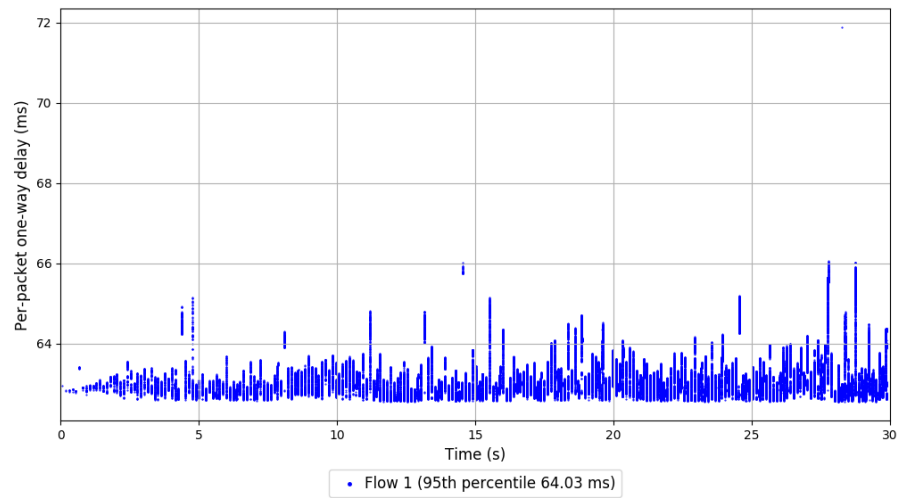
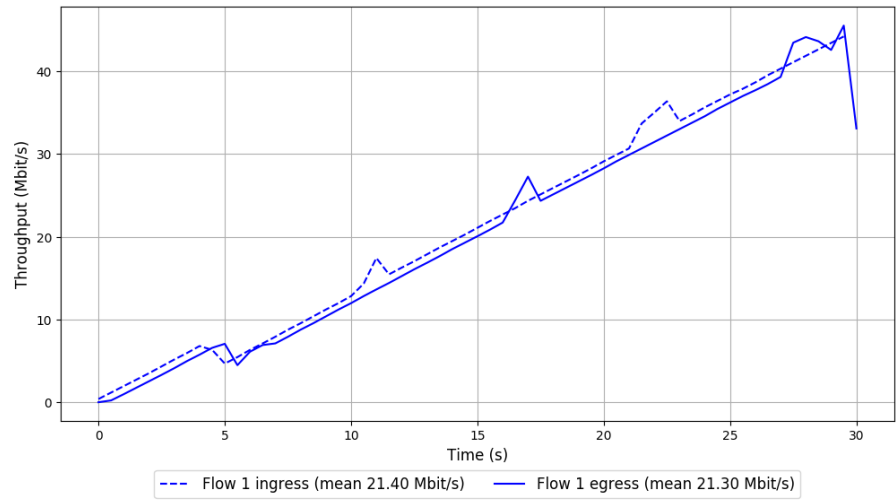


Run 5: Statistics of LEDBAT

Start at: 2019-08-27 06:34:54
End at: 2019-08-27 06:35:24
Local clock offset: -0.062 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2019-08-27 08:10:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.30 Mbit/s
95th percentile per-packet one-way delay: 64.032 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 21.30 Mbit/s
95th percentile per-packet one-way delay: 64.032 ms
Loss rate: 0.87%

Run 5: Report of LEDBAT — Data Link

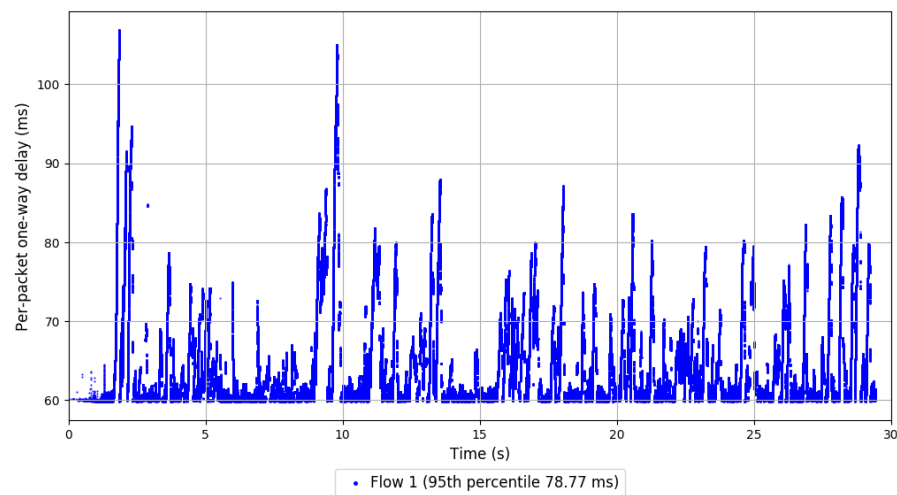
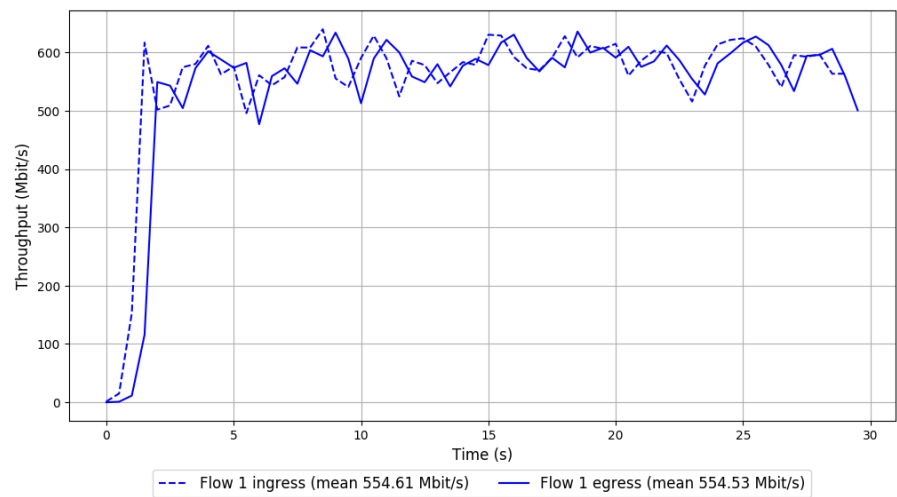


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 04:08:24
End at: 2019-08-27 04:08:54
Local clock offset: 0.037 ms
Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2019-08-27 08:12:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 554.53 Mbit/s
95th percentile per-packet one-way delay: 78.768 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 554.53 Mbit/s
95th percentile per-packet one-way delay: 78.768 ms
Loss rate: 0.42%
```

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-08-27 04:43:10

End at: 2019-08-27 04:43:40

Local clock offset: 0.449 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2019-08-27 08:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.27 Mbit/s

95th percentile per-packet one-way delay: 86.436 ms

Loss rate: 0.49%

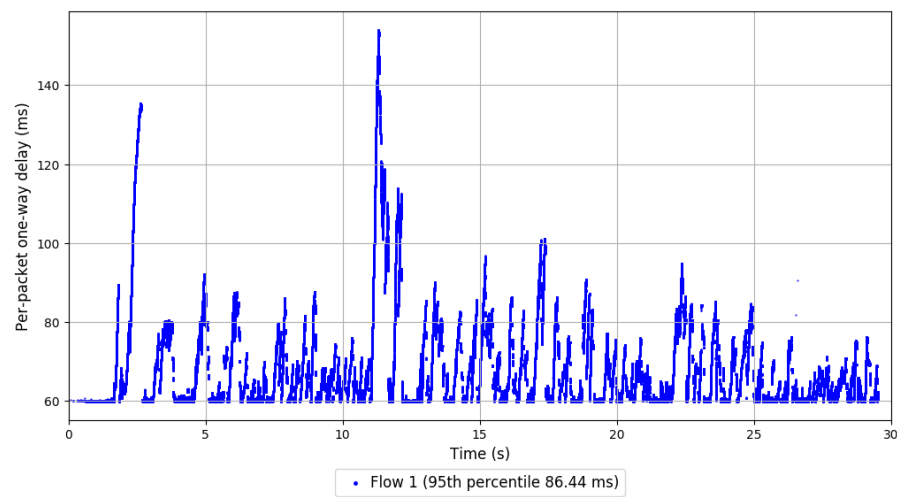
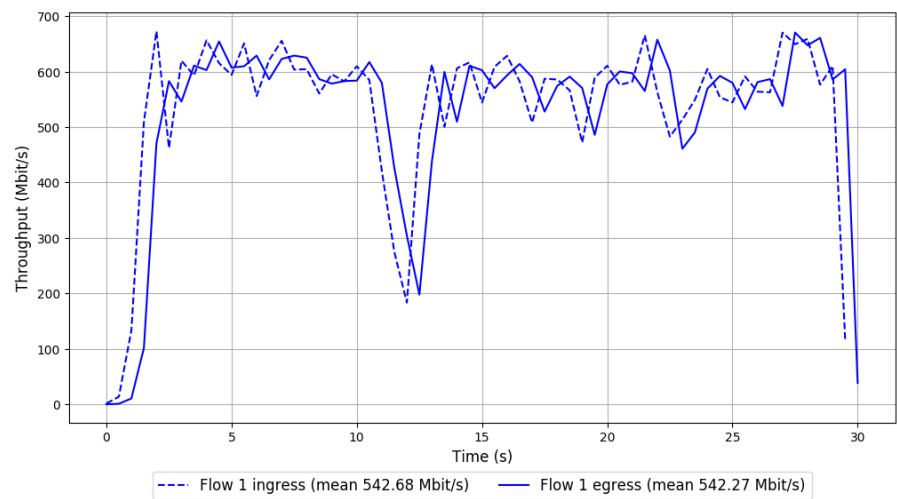
-- Flow 1:

Average throughput: 542.27 Mbit/s

95th percentile per-packet one-way delay: 86.436 ms

Loss rate: 0.49%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-08-27 05:17:56

End at: 2019-08-27 05:18:26

Local clock offset: -0.024 ms

Remote clock offset: 0.632 ms

Below is generated by plot.py at 2019-08-27 08:13:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 465.44 Mbit/s

95th percentile per-packet one-way delay: 71.867 ms

Loss rate: 0.39%

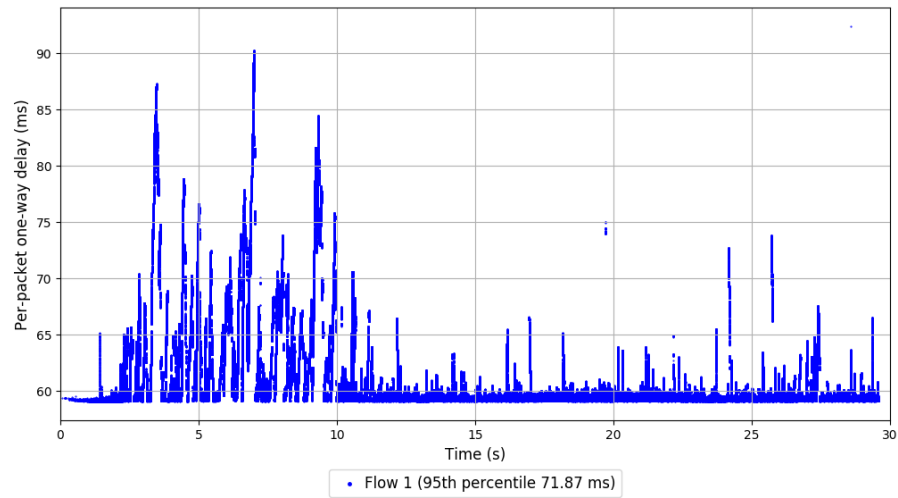
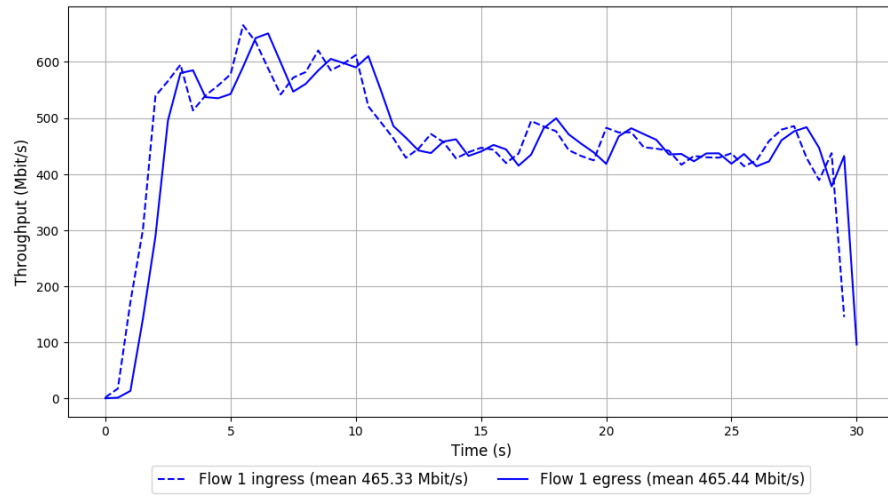
-- Flow 1:

Average throughput: 465.44 Mbit/s

95th percentile per-packet one-way delay: 71.867 ms

Loss rate: 0.39%

Run 3: Report of Muses_DecisionTree — Data Link

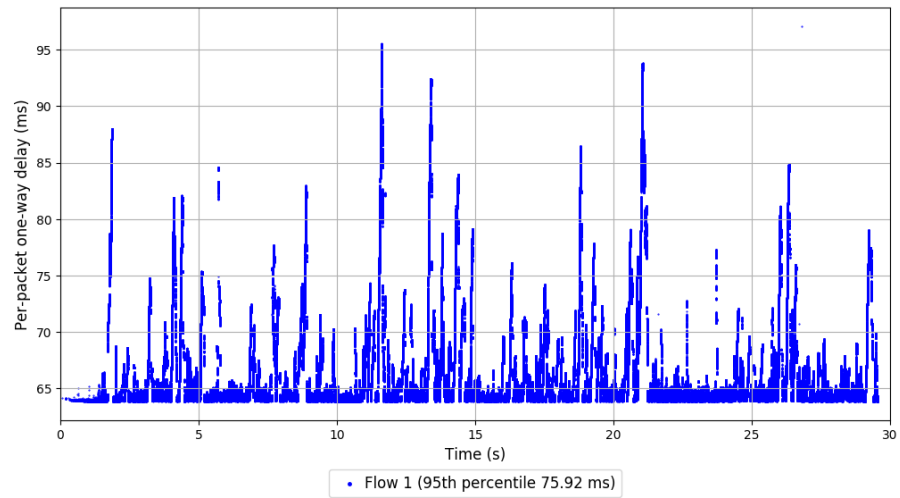
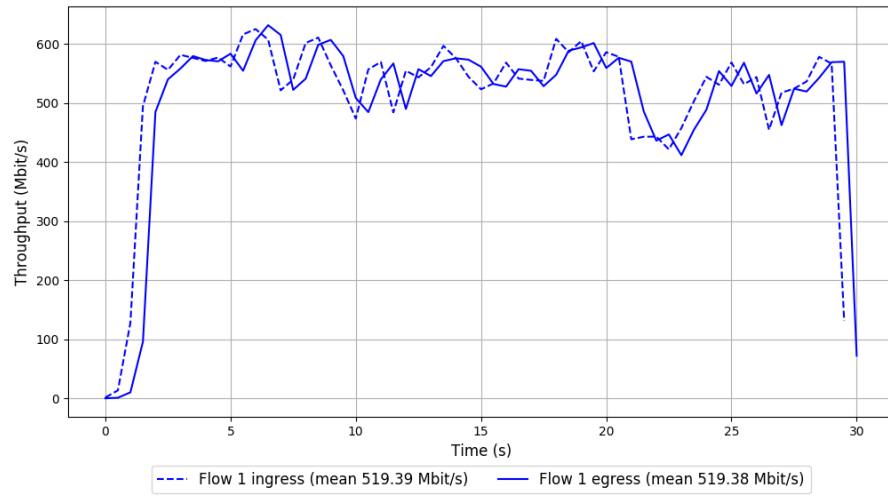


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-08-27 05:52:38
End at: 2019-08-27 05:53:08
Local clock offset: -0.055 ms
Remote clock offset: -0.729 ms

Below is generated by plot.py at 2019-08-27 08:15:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 519.38 Mbit/s
95th percentile per-packet one-way delay: 75.920 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 519.38 Mbit/s
95th percentile per-packet one-way delay: 75.920 ms
Loss rate: 0.42%

Run 4: Report of Muses_DecisionTree — Data Link

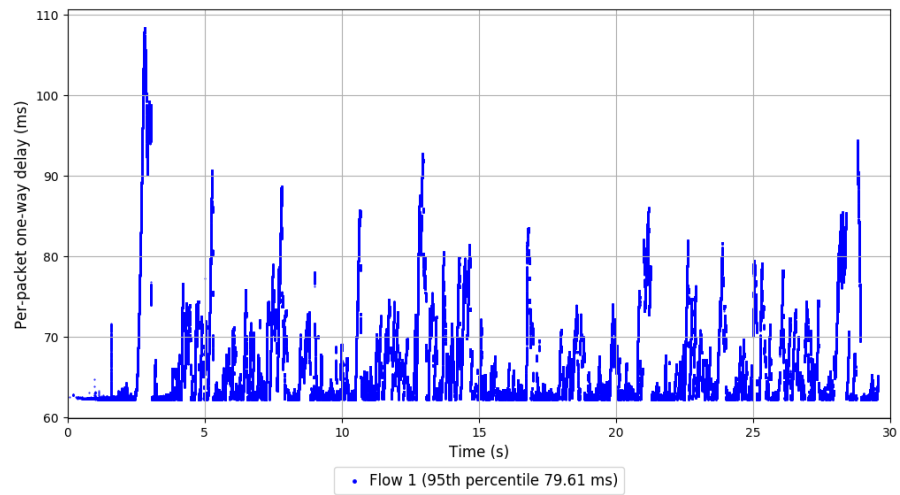
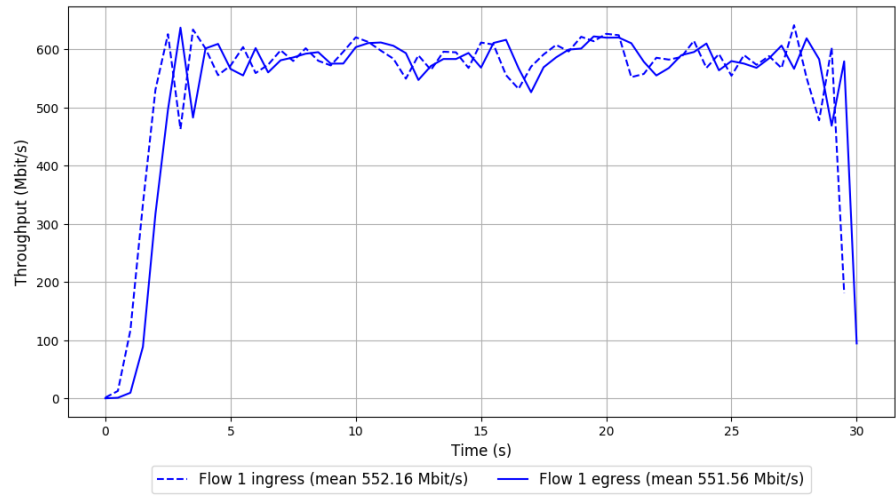


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-08-27 06:27:28
End at: 2019-08-27 06:27:58
Local clock offset: -0.073 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2019-08-27 08:18:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 551.56 Mbit/s
95th percentile per-packet one-way delay: 79.609 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 551.56 Mbit/s
95th percentile per-packet one-way delay: 79.609 ms
Loss rate: 0.53%

Run 5: Report of Muses_DecisionTree — Data Link

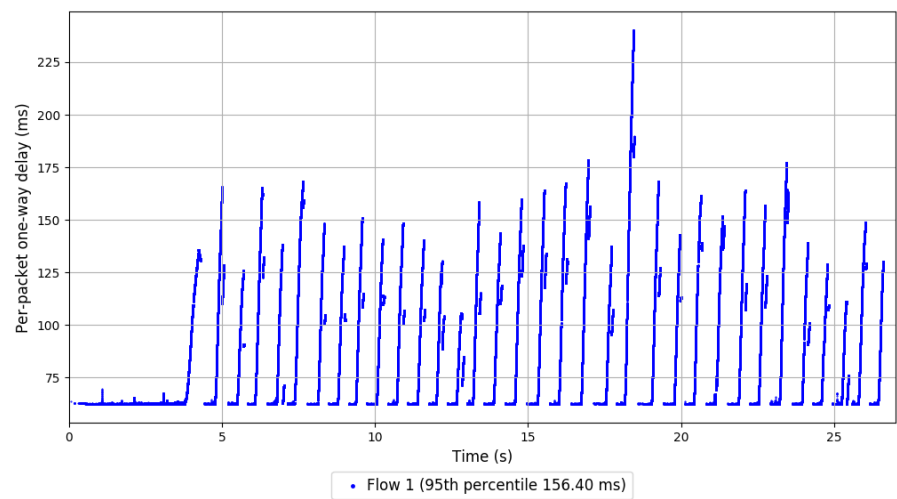
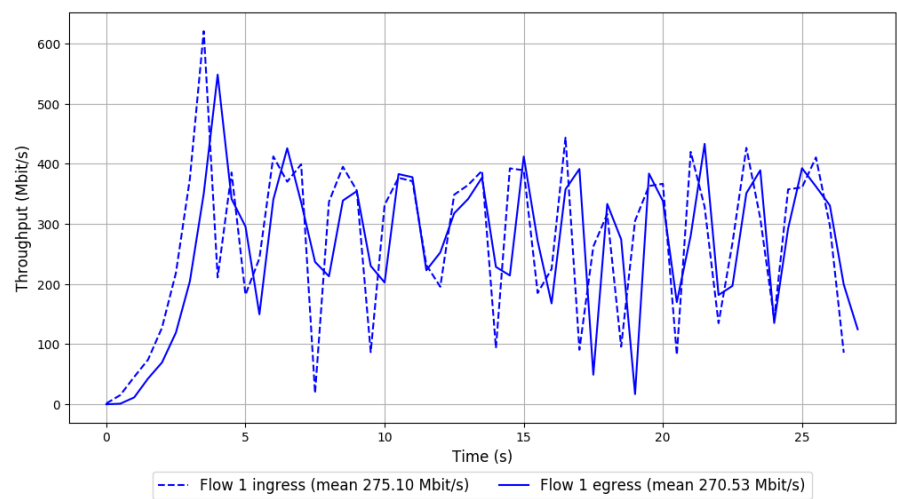


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 03:57:24
End at: 2019-08-27 03:57:54
Local clock offset: -0.33 ms
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2019-08-27 08:18:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 270.53 Mbit/s
95th percentile per-packet one-way delay: 156.403 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 270.53 Mbit/s
95th percentile per-packet one-way delay: 156.403 ms
Loss rate: 1.86%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

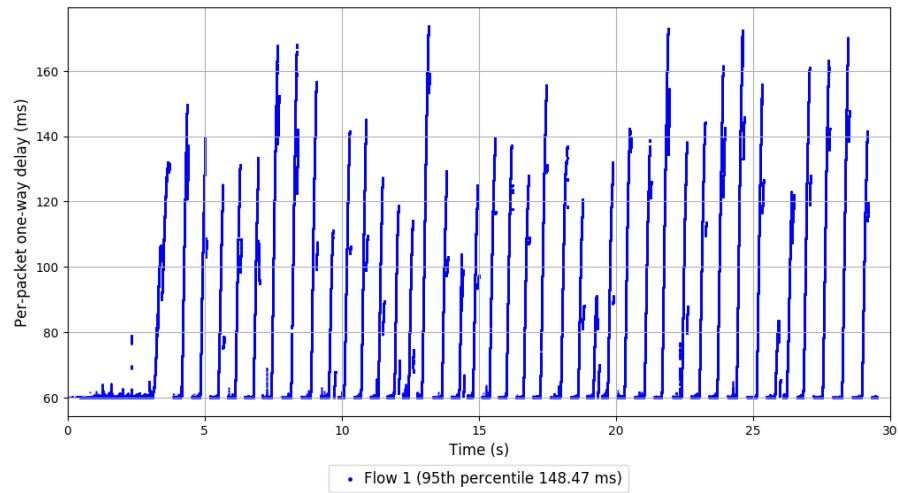
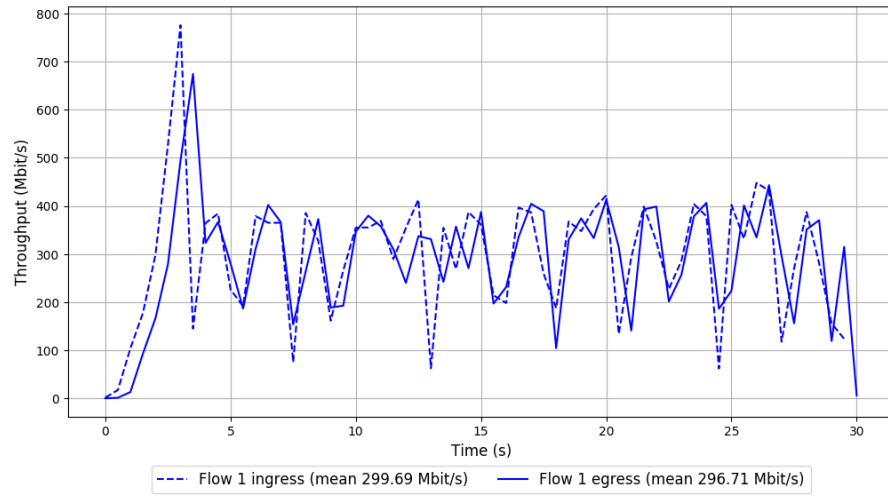


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 04:31:51
End at: 2019-08-27 04:32:21
Local clock offset: 0.373 ms
Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-08-27 08:18:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 296.71 Mbit/s
95th percentile per-packet one-way delay: 148.469 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 296.71 Mbit/s
95th percentile per-packet one-way delay: 148.469 ms
Loss rate: 1.40%
```

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 05:06:45

End at: 2019-08-27 05:07:15

Local clock offset: 0.295 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2019-08-27 08:18:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.03 Mbit/s

95th percentile per-packet one-way delay: 147.289 ms

Loss rate: 1.01%

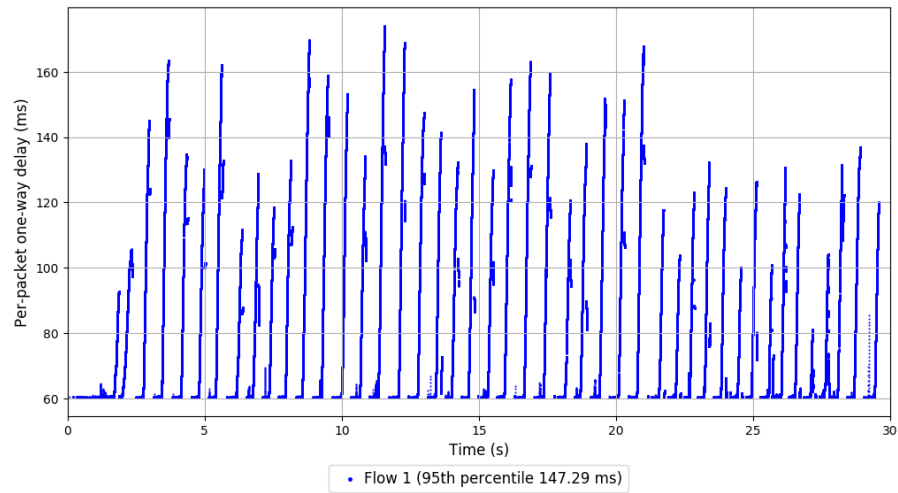
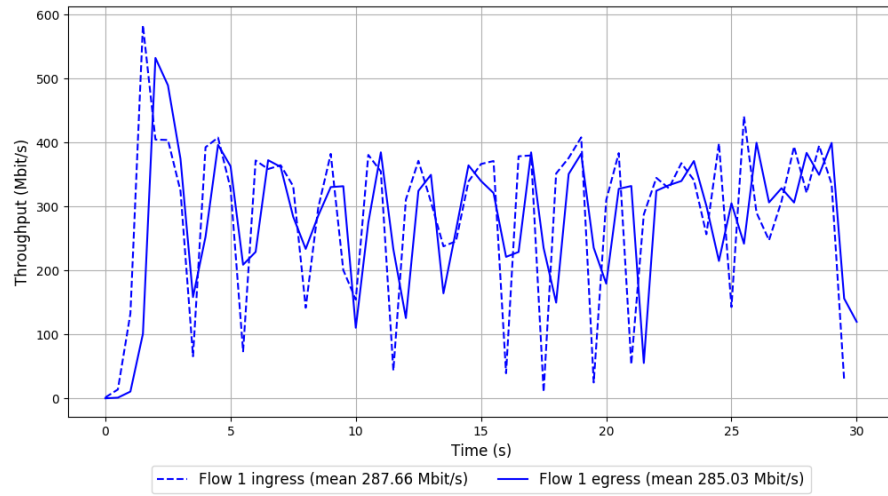
-- Flow 1:

Average throughput: 285.03 Mbit/s

95th percentile per-packet one-way delay: 147.289 ms

Loss rate: 1.01%

Run 3: Report of Muses_DecisionTreeH0 — Data Link

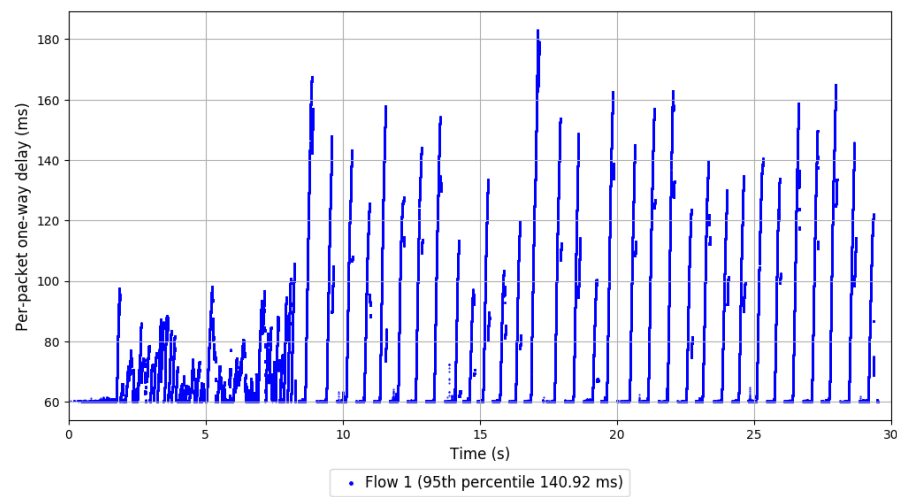
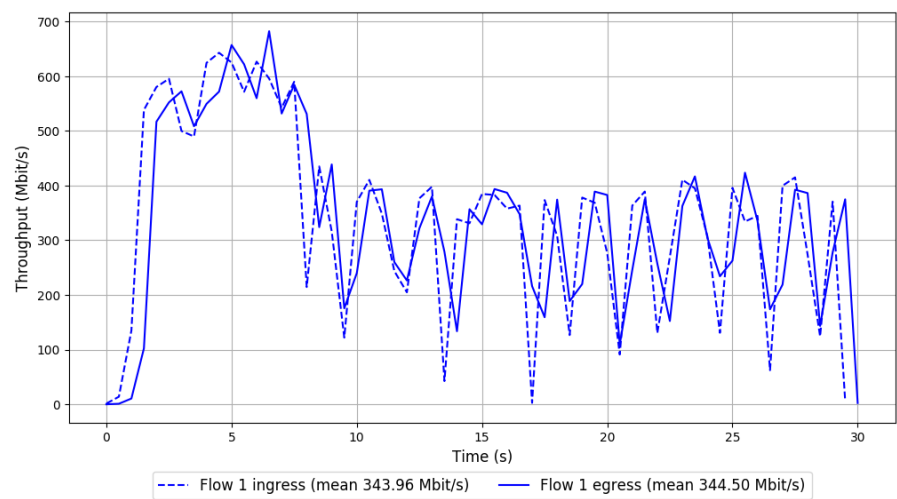


Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 05:41:22
End at: 2019-08-27 05:41:53
Local clock offset: -0.04 ms
Remote clock offset: -0.356 ms

Below is generated by plot.py at 2019-08-27 08:18:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 344.50 Mbit/s
95th percentile per-packet one-way delay: 140.916 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 344.50 Mbit/s
95th percentile per-packet one-way delay: 140.916 ms
Loss rate: 0.25%

Run 4: Report of Muses_DecisionTreeH0 — Data Link

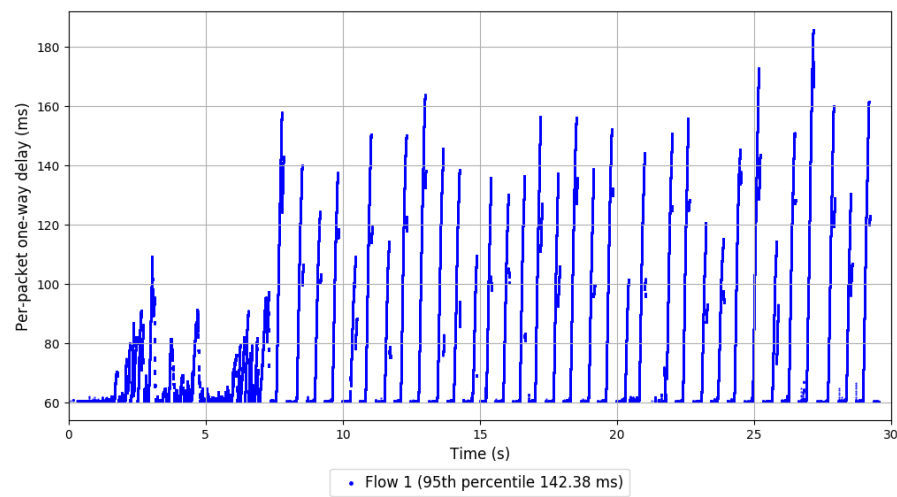
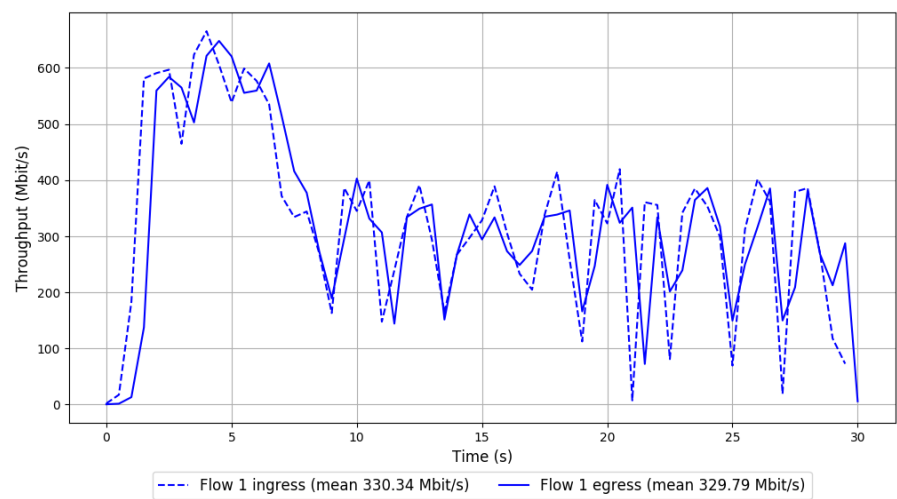


Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 06:16:02
End at: 2019-08-27 06:16:32
Local clock offset: -0.049 ms
Remote clock offset: -0.443 ms

Below is generated by plot.py at 2019-08-27 08:18:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 329.79 Mbit/s
95th percentile per-packet one-way delay: 142.378 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 329.79 Mbit/s
95th percentile per-packet one-way delay: 142.378 ms
Loss rate: 0.58%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

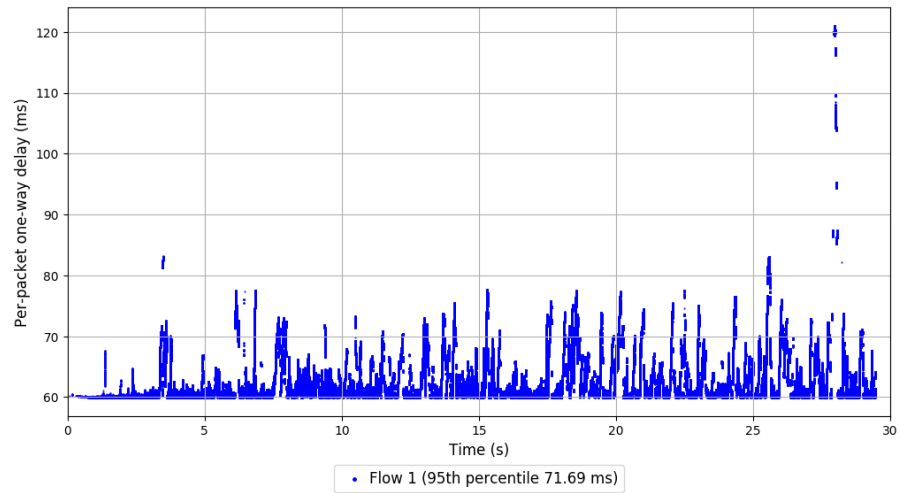
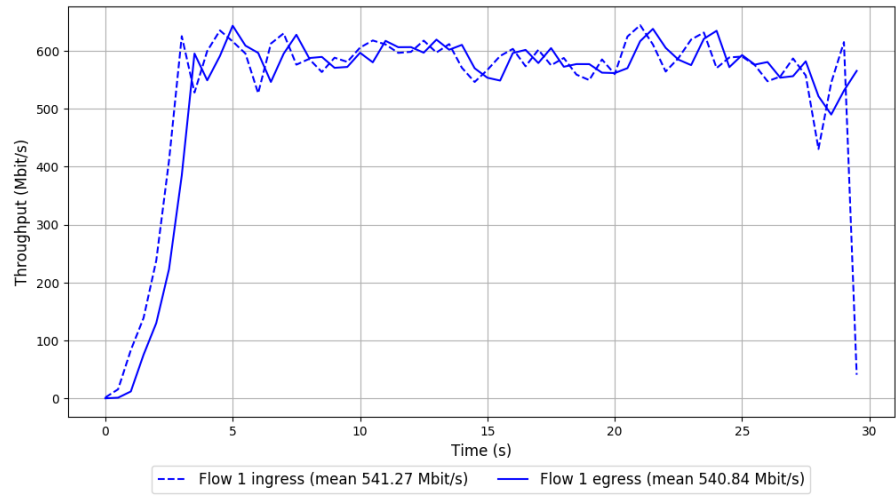


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 04:25:30
End at: 2019-08-27 04:26:00
Local clock offset: 0.287 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-08-27 08:22:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.84 Mbit/s
95th percentile per-packet one-way delay: 71.692 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 540.84 Mbit/s
95th percentile per-packet one-way delay: 71.692 ms
Loss rate: 0.49%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

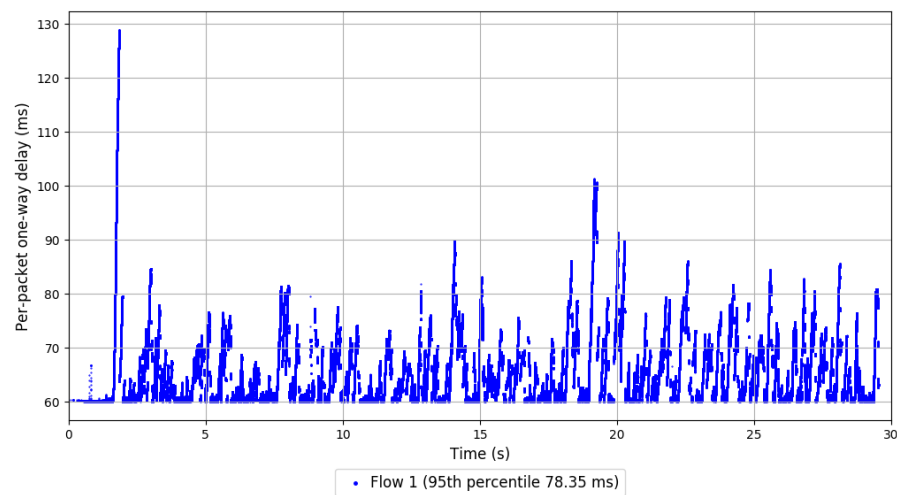
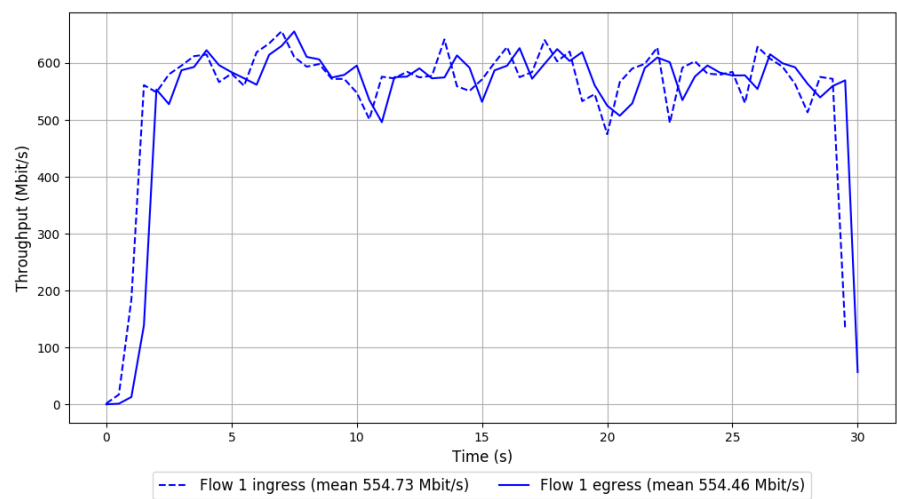


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 05:00:27
End at: 2019-08-27 05:00:57
Local clock offset: 0.592 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2019-08-27 08:23:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 554.46 Mbit/s
95th percentile per-packet one-way delay: 78.348 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 554.46 Mbit/s
95th percentile per-packet one-way delay: 78.348 ms
Loss rate: 0.46%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 05:35:03
End at: 2019-08-27 05:35:33
Local clock offset: -0.093 ms
Remote clock offset: -0.078 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 519.52 Mbit/s

95th percentile per-packet one-way delay: 76.443 ms

Loss rate: 0.50%

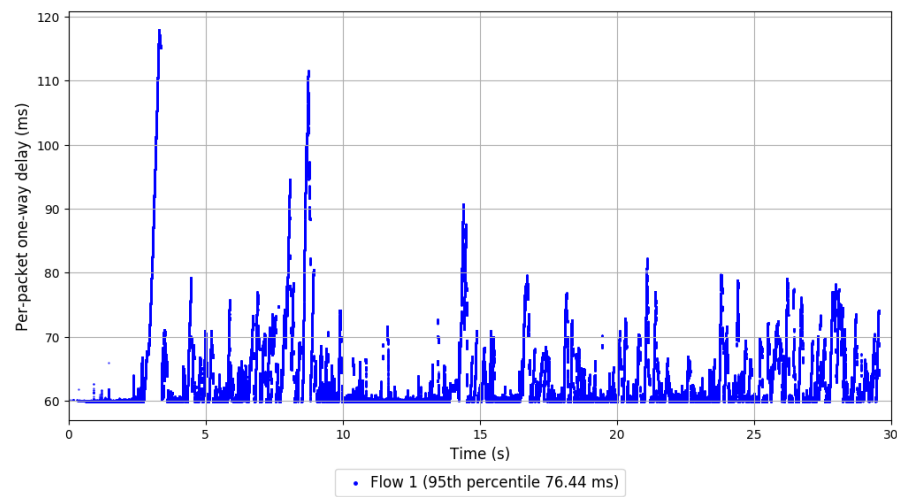
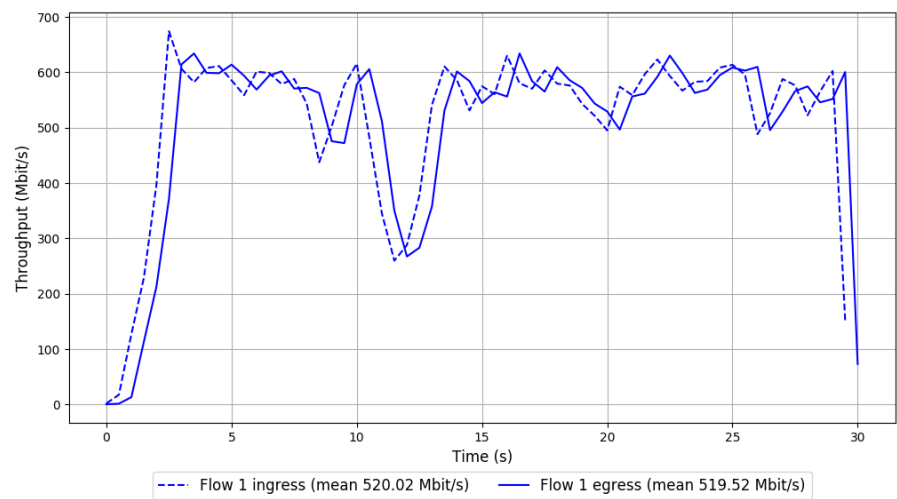
-- Flow 1:

Average throughput: 519.52 Mbit/s

95th percentile per-packet one-way delay: 76.443 ms

Loss rate: 0.50%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 06:09:45

End at: 2019-08-27 06:10:15

Local clock offset: -0.1 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2019-08-27 08:24:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.56 Mbit/s

95th percentile per-packet one-way delay: 81.144 ms

Loss rate: 0.42%

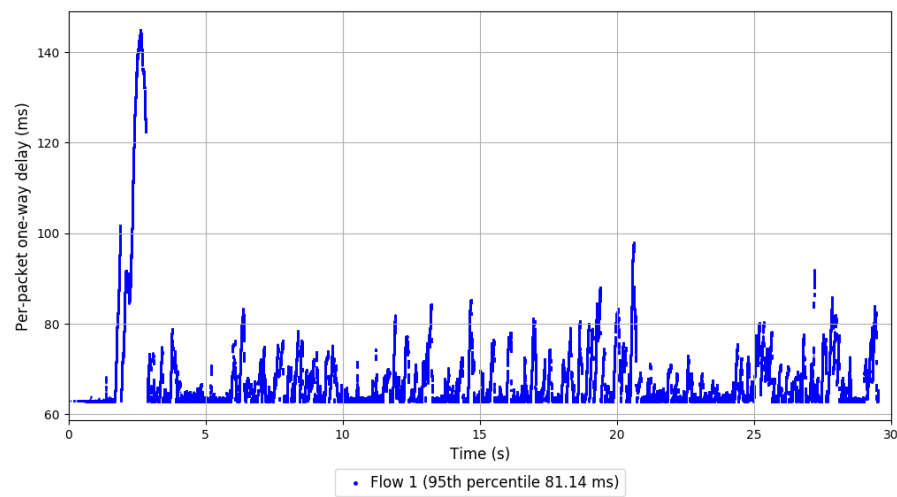
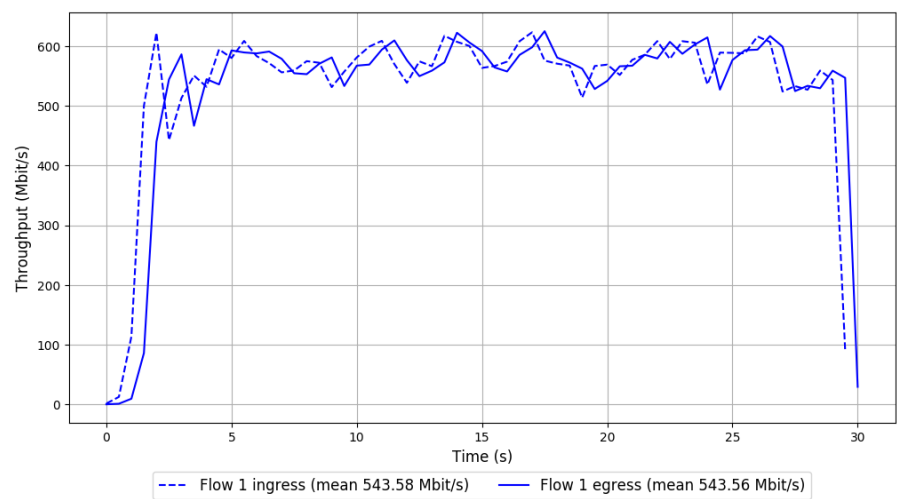
-- Flow 1:

Average throughput: 543.56 Mbit/s

95th percentile per-packet one-way delay: 81.144 ms

Loss rate: 0.42%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 06:44:47

End at: 2019-08-27 06:45:17

Local clock offset: -0.095 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2019-08-27 08:25:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.39 Mbit/s

95th percentile per-packet one-way delay: 82.503 ms

Loss rate: 0.49%

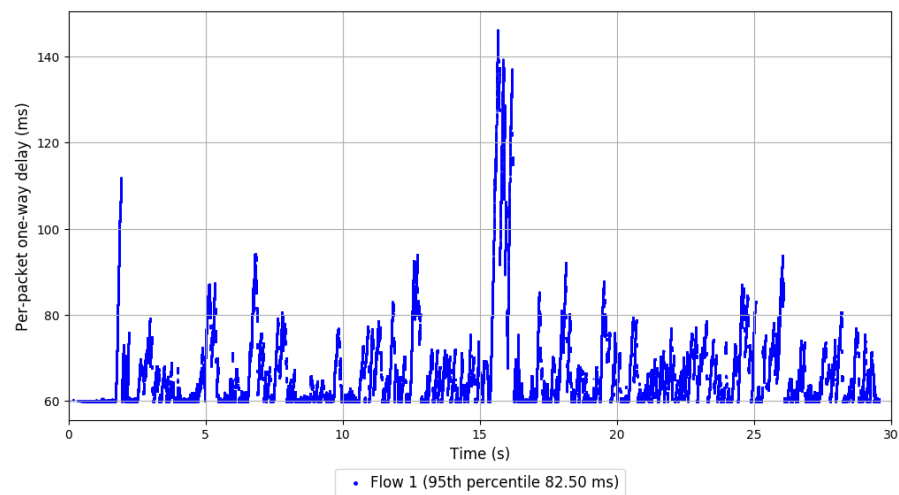
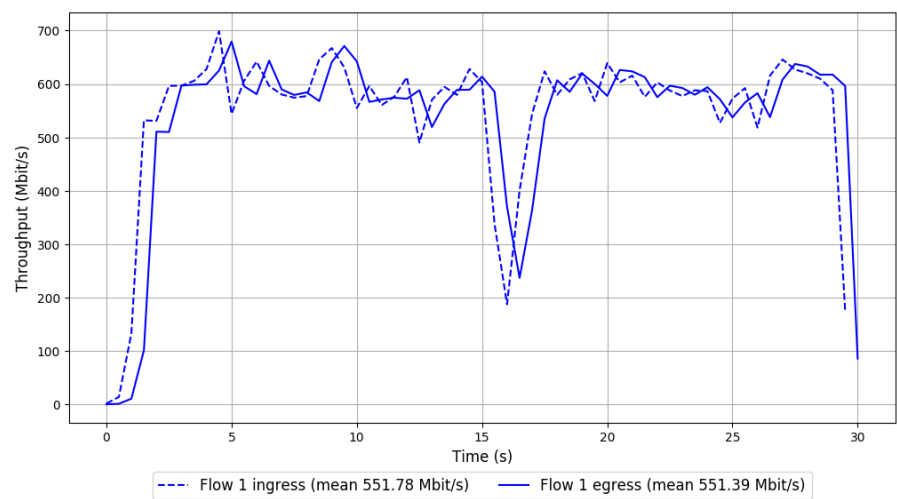
-- Flow 1:

Average throughput: 551.39 Mbit/s

95th percentile per-packet one-way delay: 82.503 ms

Loss rate: 0.49%

Run 5: Report of Muses_DecisionTreeR0 — Data Link

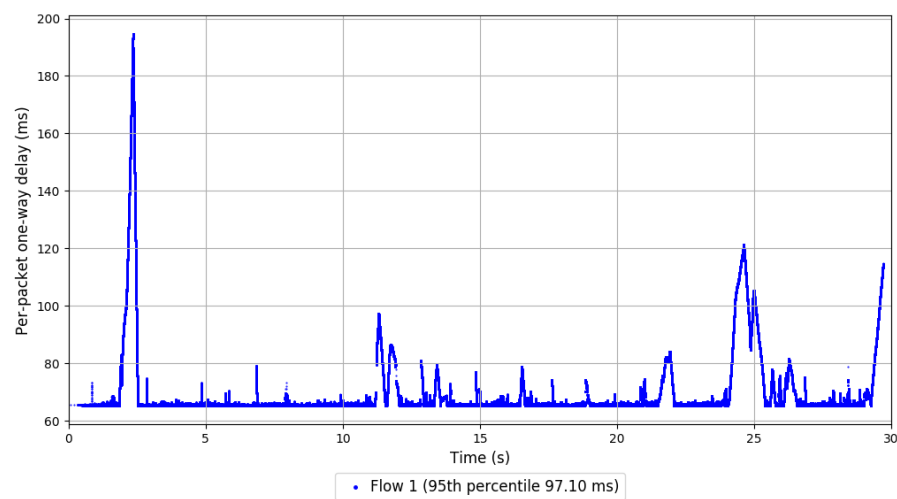
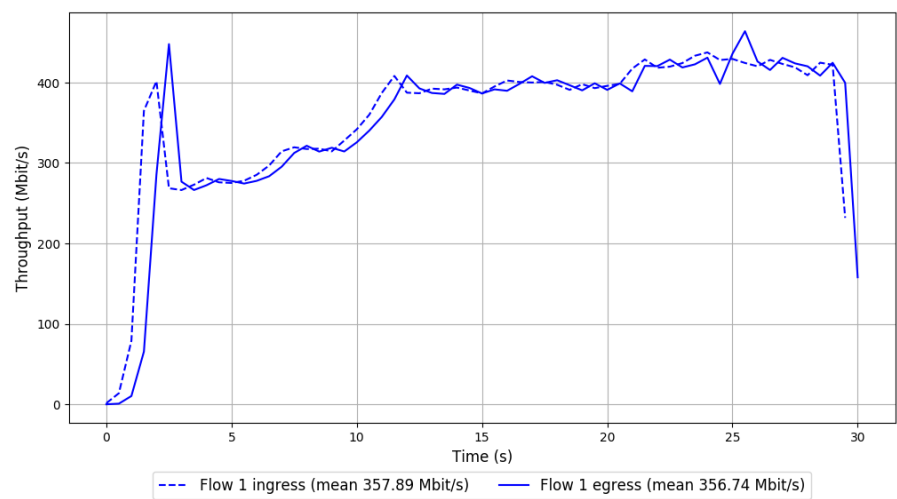


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-08-27 04:10:00
End at: 2019-08-27 04:10:30
Local clock offset: 0.055 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-08-27 08:29:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.74 Mbit/s
95th percentile per-packet one-way delay: 97.101 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 356.74 Mbit/s
95th percentile per-packet one-way delay: 97.101 ms
Loss rate: 0.74%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-08-27 04:44:44

End at: 2019-08-27 04:45:14

Local clock offset: 0.475 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2019-08-27 08:31:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.20 Mbit/s

95th percentile per-packet one-way delay: 112.415 ms

Loss rate: 0.47%

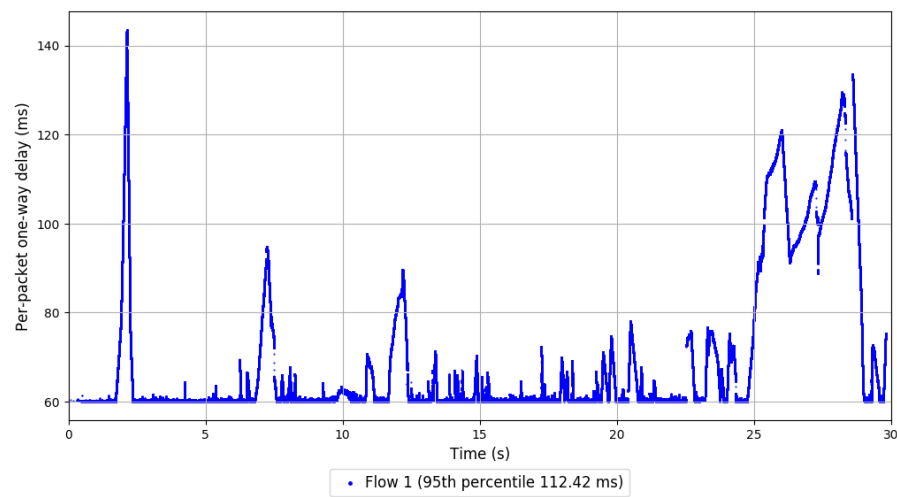
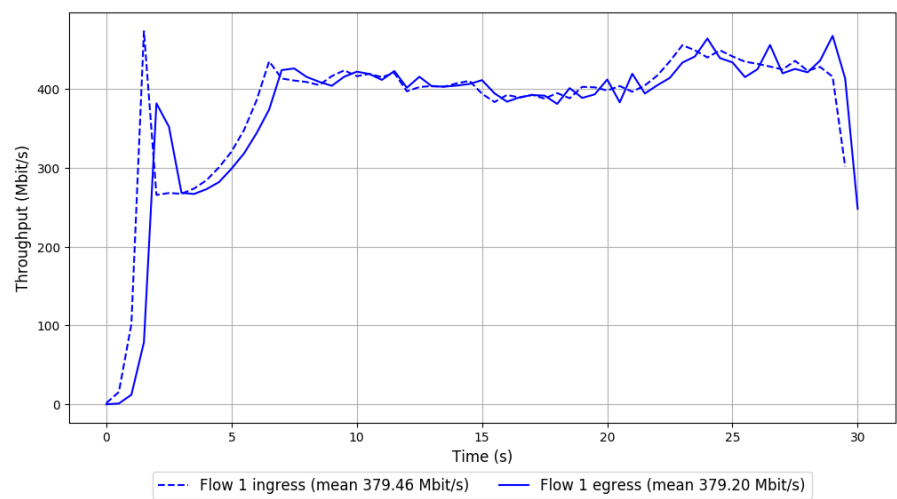
-- Flow 1:

Average throughput: 379.20 Mbit/s

95th percentile per-packet one-way delay: 112.415 ms

Loss rate: 0.47%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-08-27 05:19:26

End at: 2019-08-27 05:19:56

Local clock offset: -0.01 ms

Remote clock offset: -0.165 ms

Below is generated by plot.py at 2019-08-27 08:31:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.59 Mbit/s

95th percentile per-packet one-way delay: 155.105 ms

Loss rate: 0.64%

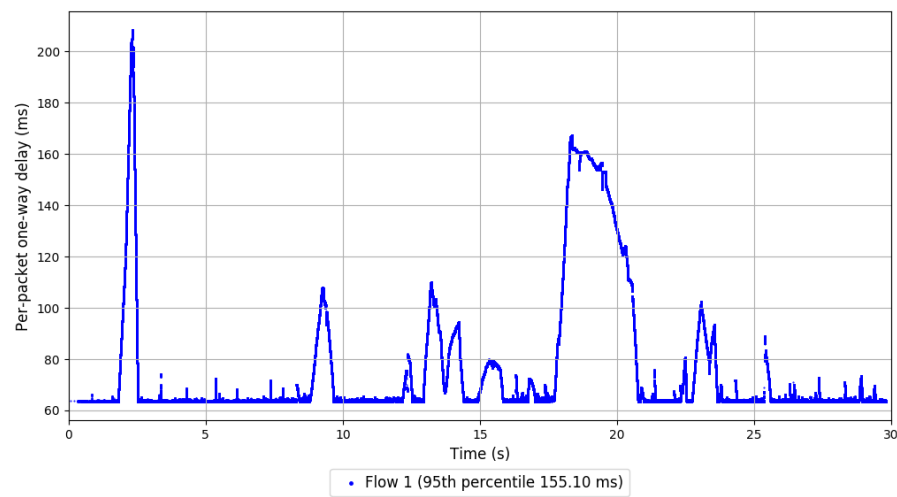
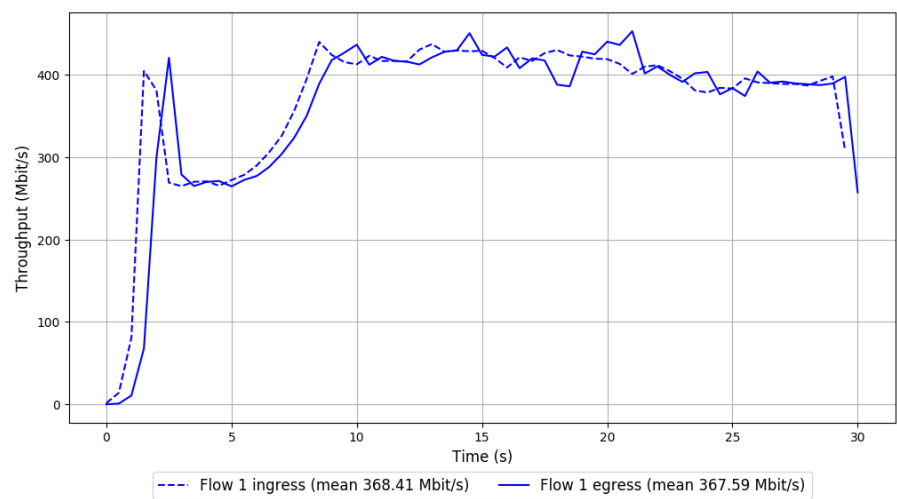
-- Flow 1:

Average throughput: 367.59 Mbit/s

95th percentile per-packet one-way delay: 155.105 ms

Loss rate: 0.64%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-08-27 05:54:11

End at: 2019-08-27 05:54:41

Local clock offset: -0.018 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2019-08-27 08:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 421.11 Mbit/s

95th percentile per-packet one-way delay: 207.213 ms

Loss rate: 8.72%

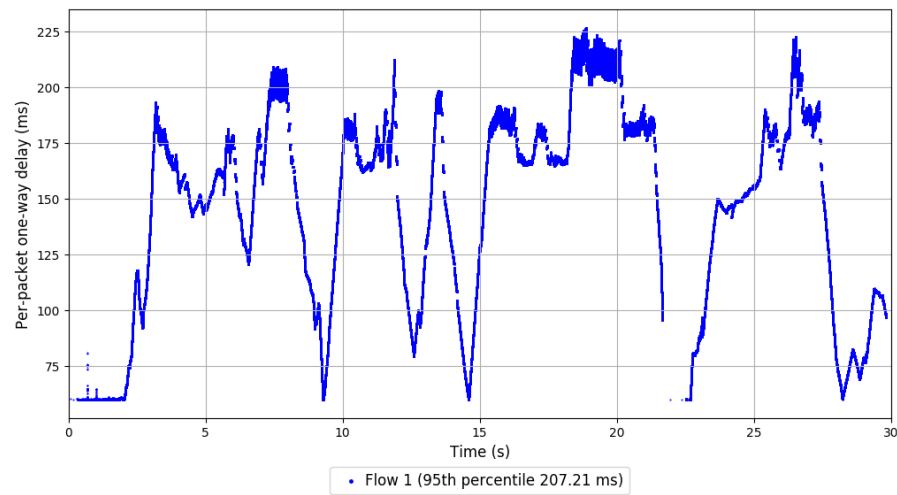
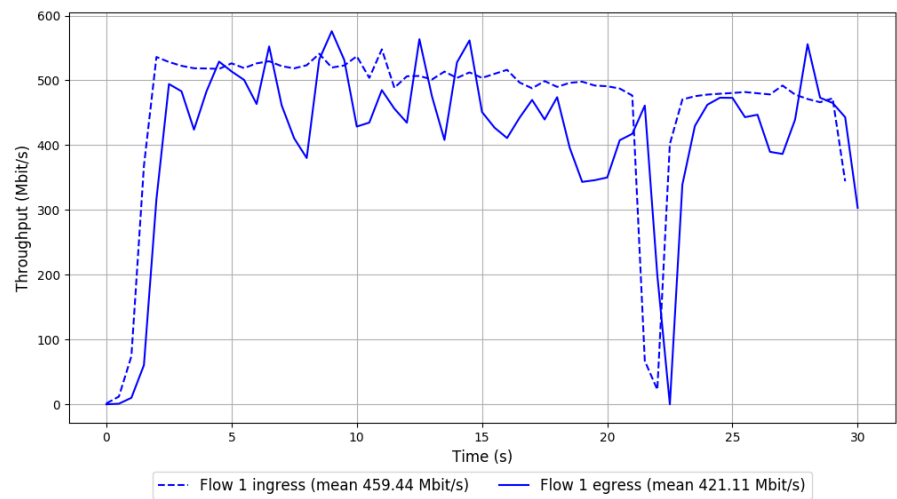
-- Flow 1:

Average throughput: 421.11 Mbit/s

95th percentile per-packet one-way delay: 207.213 ms

Loss rate: 8.72%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-08-27 06:29:03

End at: 2019-08-27 06:29:33

Local clock offset: -0.032 ms

Remote clock offset: -0.136 ms

Below is generated by plot.py at 2019-08-27 08:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.43 Mbit/s

95th percentile per-packet one-way delay: 138.560 ms

Loss rate: 0.92%

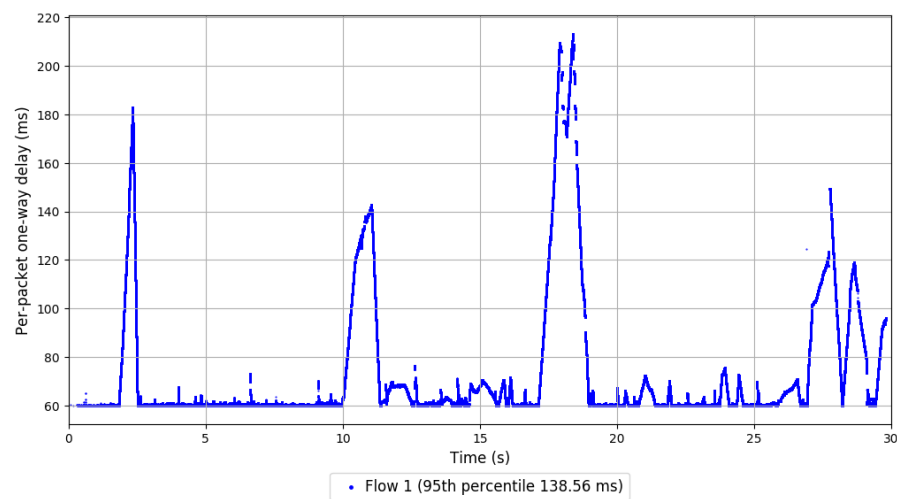
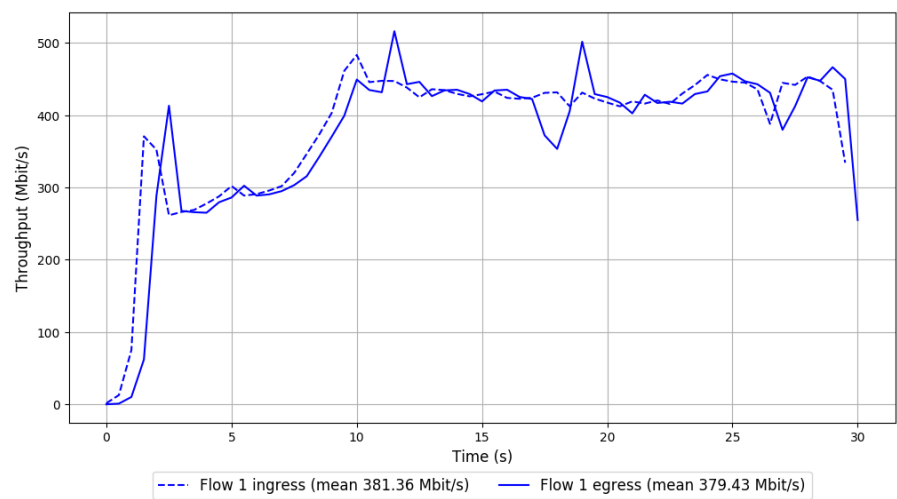
-- Flow 1:

Average throughput: 379.43 Mbit/s

95th percentile per-packet one-way delay: 138.560 ms

Loss rate: 0.92%

Run 5: Report of PCC-Allegro — Data Link

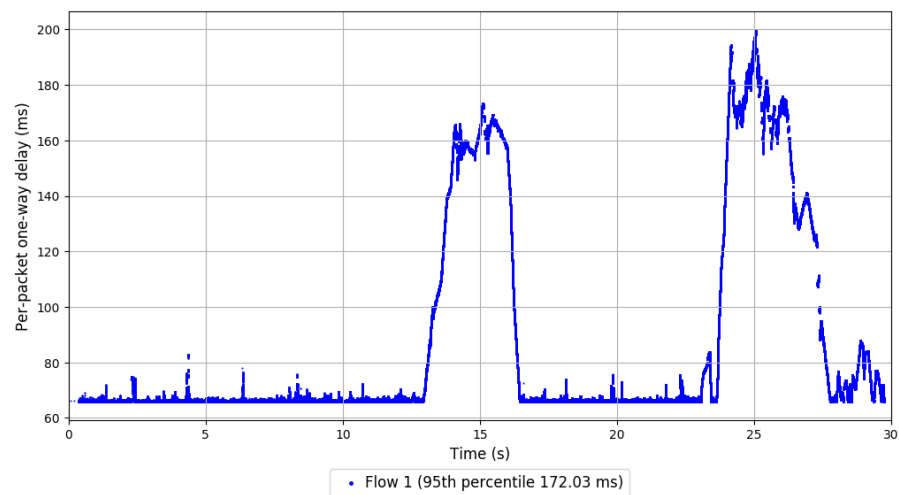
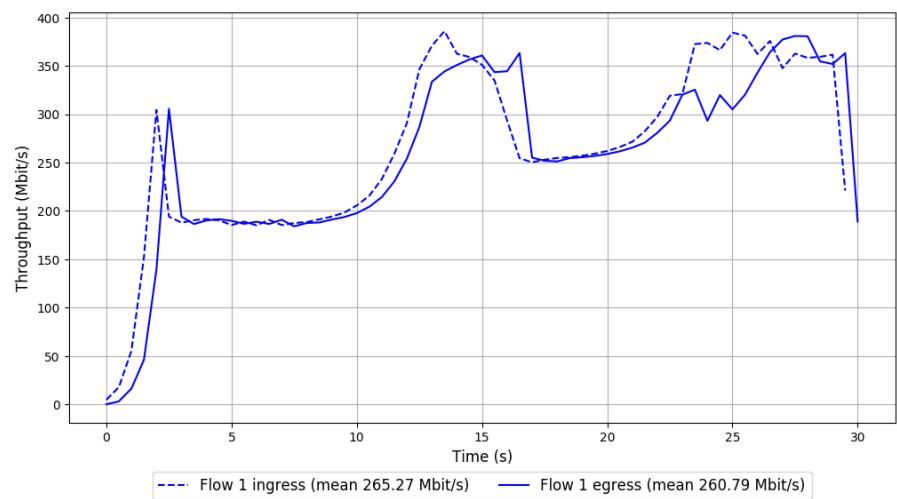


```
Run 1: Statistics of PCC-Expr

Start at: 2019-08-27 03:59:52
End at: 2019-08-27 04:00:22
Local clock offset: -0.168 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-08-27 08:37:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 260.79 Mbit/s
95th percentile per-packet one-way delay: 172.028 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 260.79 Mbit/s
95th percentile per-packet one-way delay: 172.028 ms
Loss rate: 2.11%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-08-27 04:34:21

End at: 2019-08-27 04:34:51

Local clock offset: 0.351 ms

Remote clock offset: 0.207 ms

Below is generated by plot.py at 2019-08-27 08:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.08 Mbit/s

95th percentile per-packet one-way delay: 69.244 ms

Loss rate: 0.48%

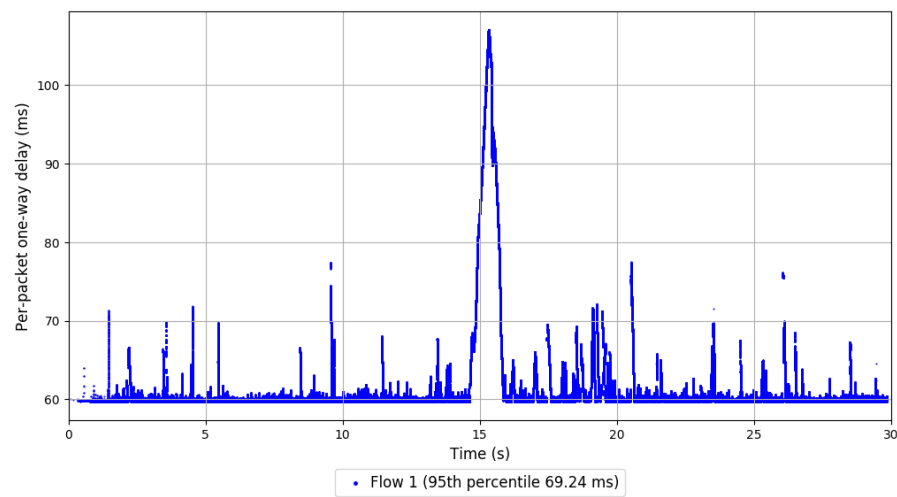
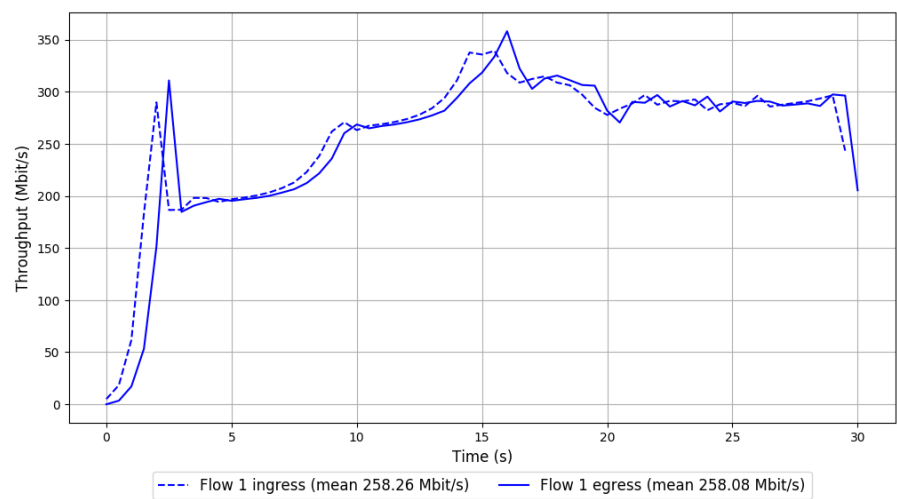
-- Flow 1:

Average throughput: 258.08 Mbit/s

95th percentile per-packet one-way delay: 69.244 ms

Loss rate: 0.48%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-08-27 05:09:16

End at: 2019-08-27 05:09:46

Local clock offset: 0.207 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2019-08-27 08:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.86 Mbit/s

95th percentile per-packet one-way delay: 157.871 ms

Loss rate: 1.08%

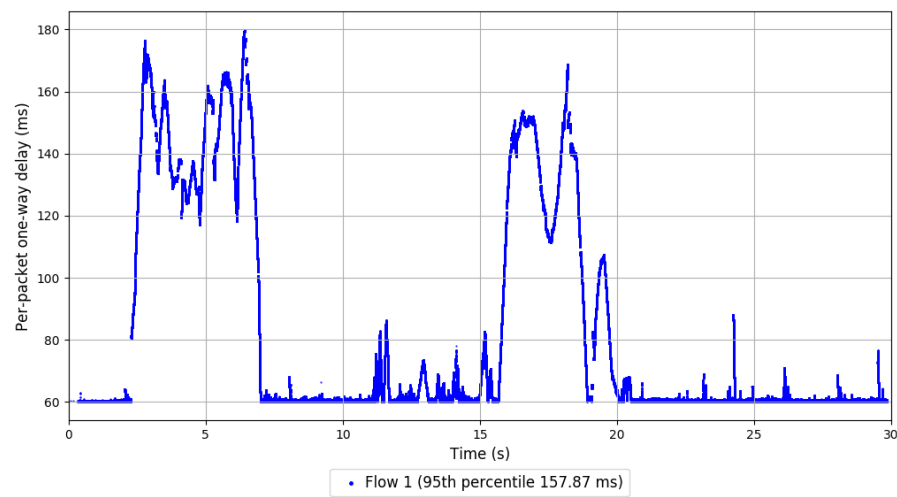
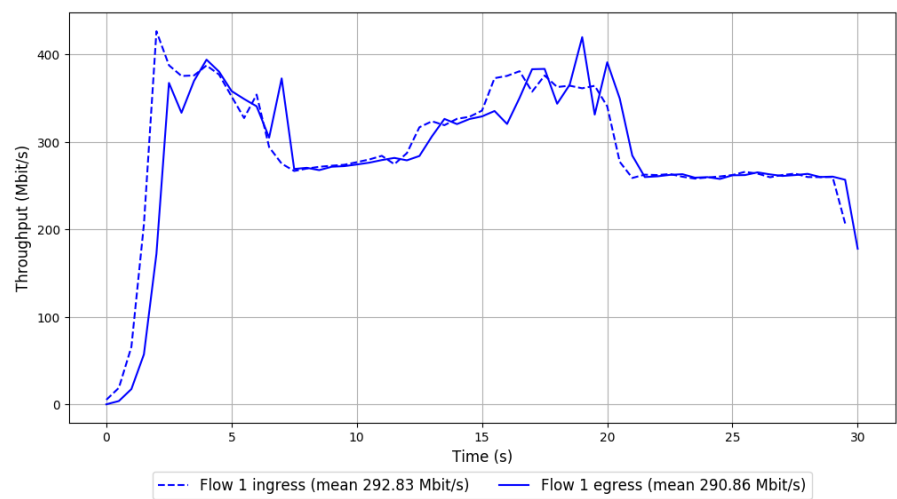
-- Flow 1:

Average throughput: 290.86 Mbit/s

95th percentile per-packet one-way delay: 157.871 ms

Loss rate: 1.08%

Run 3: Report of PCC-Expr — Data Link

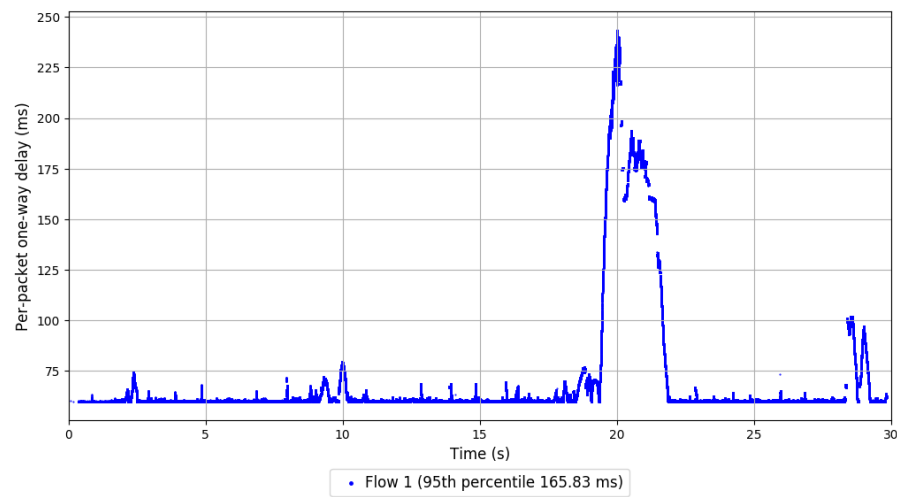
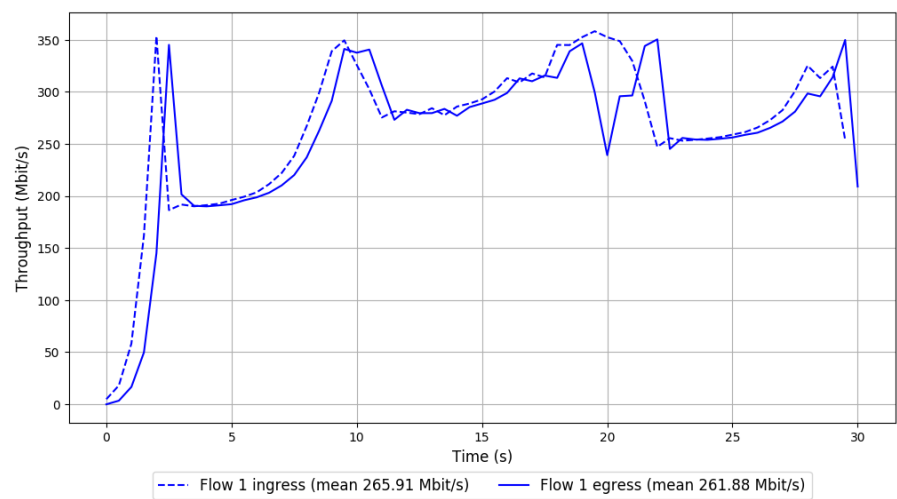


Run 4: Statistics of PCC-Expr

Start at: 2019-08-27 05:43:55
End at: 2019-08-27 05:44:25
Local clock offset: -0.06 ms
Remote clock offset: -0.245 ms

Below is generated by plot.py at 2019-08-27 08:38:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 261.88 Mbit/s
95th percentile per-packet one-way delay: 165.834 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 261.88 Mbit/s
95th percentile per-packet one-way delay: 165.834 ms
Loss rate: 1.92%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-08-27 06:18:33

End at: 2019-08-27 06:19:03

Local clock offset: -0.06 ms

Remote clock offset: 0.031 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.24 Mbit/s

95th percentile per-packet one-way delay: 164.343 ms

Loss rate: 6.08%

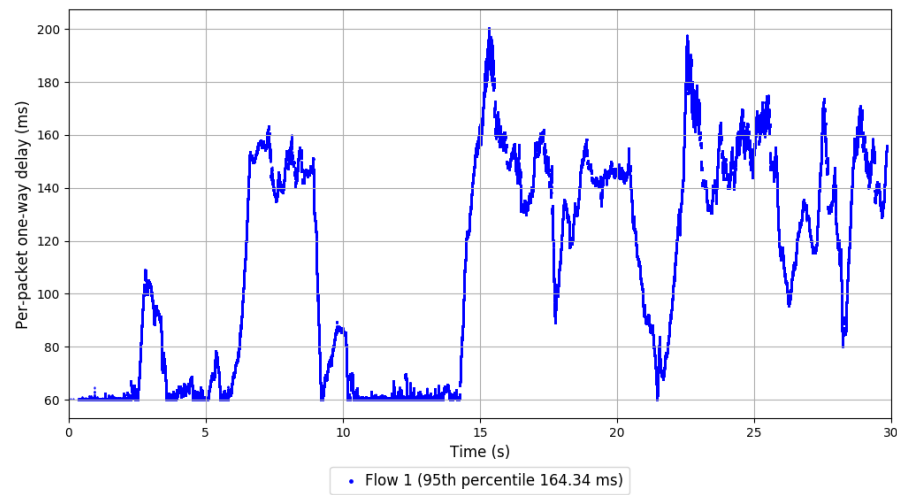
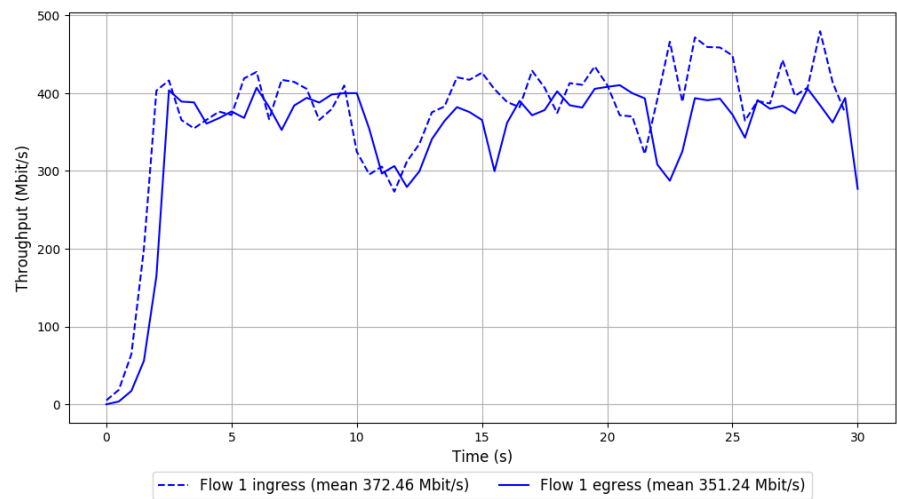
-- Flow 1:

Average throughput: 351.24 Mbit/s

95th percentile per-packet one-way delay: 164.343 ms

Loss rate: 6.08%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

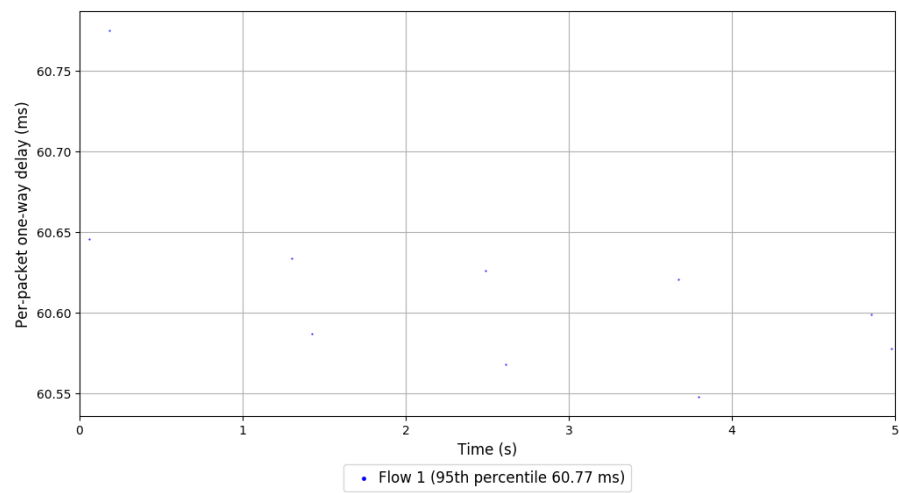
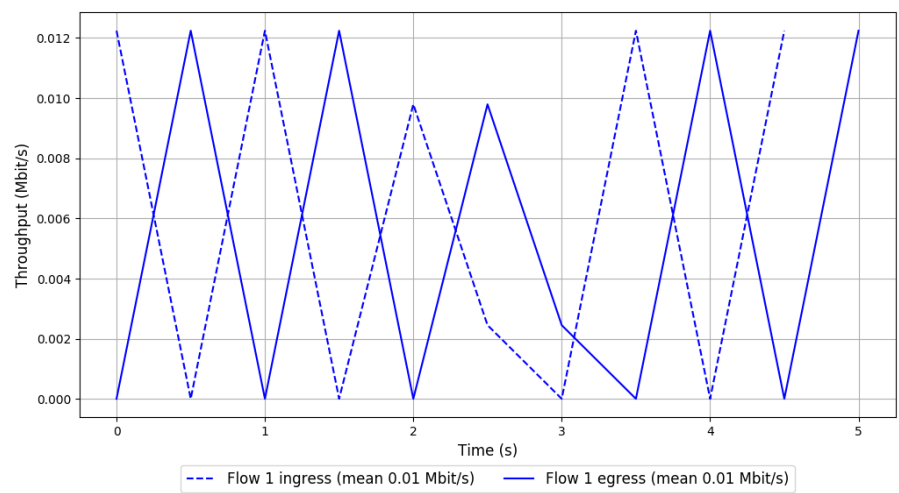
Start at: 2019-08-27 04:14:30

End at: 2019-08-27 04:15:00

Local clock offset: 0.149 ms

Remote clock offset: 0.082 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-08-27 04:49:27

End at: 2019-08-27 04:49:57

Local clock offset: 0.51 ms

Remote clock offset: 0.115 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.62 Mbit/s

95th percentile per-packet one-way delay: 60.191 ms

Loss rate: 0.49%

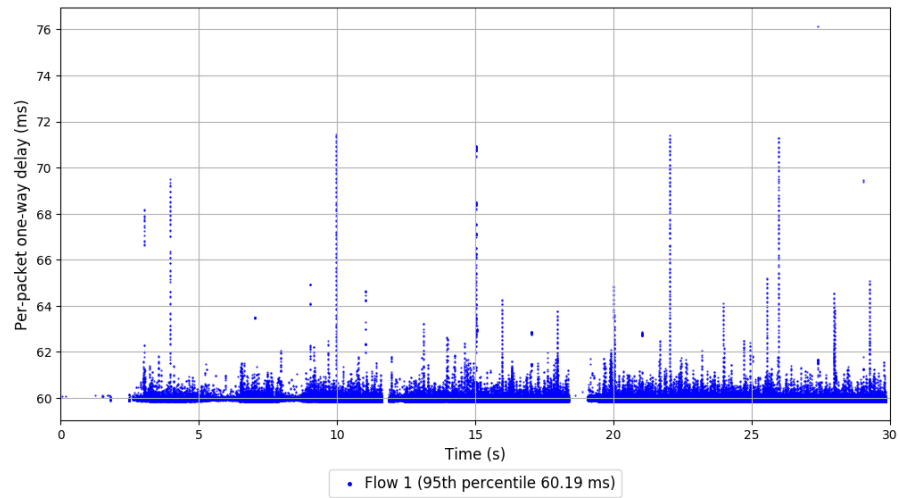
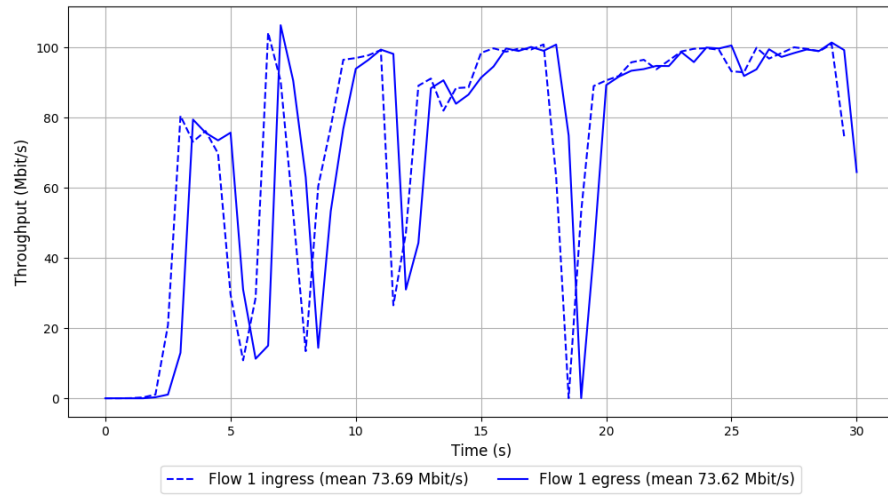
-- Flow 1:

Average throughput: 73.62 Mbit/s

95th percentile per-packet one-way delay: 60.191 ms

Loss rate: 0.49%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-08-27 05:24:05

End at: 2019-08-27 05:24:36

Local clock offset: -0.055 ms

Remote clock offset: 0.467 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.83 Mbit/s

95th percentile per-packet one-way delay: 62.265 ms

Loss rate: 0.56%

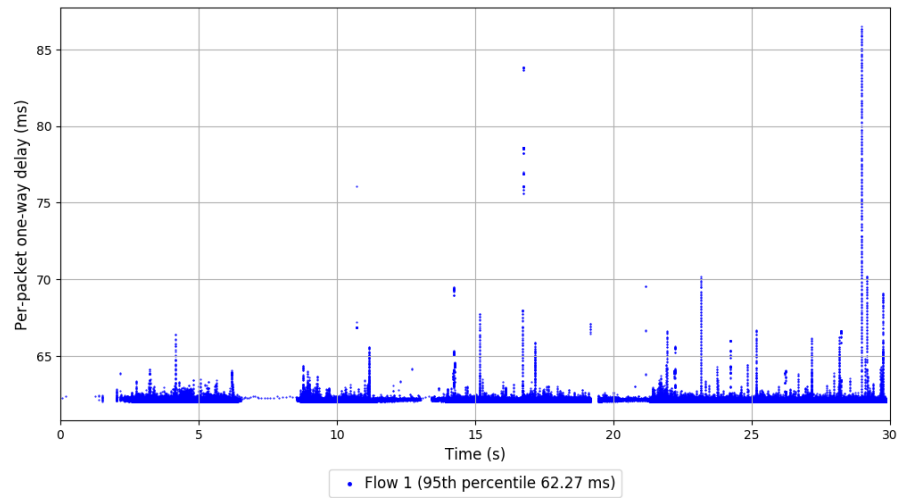
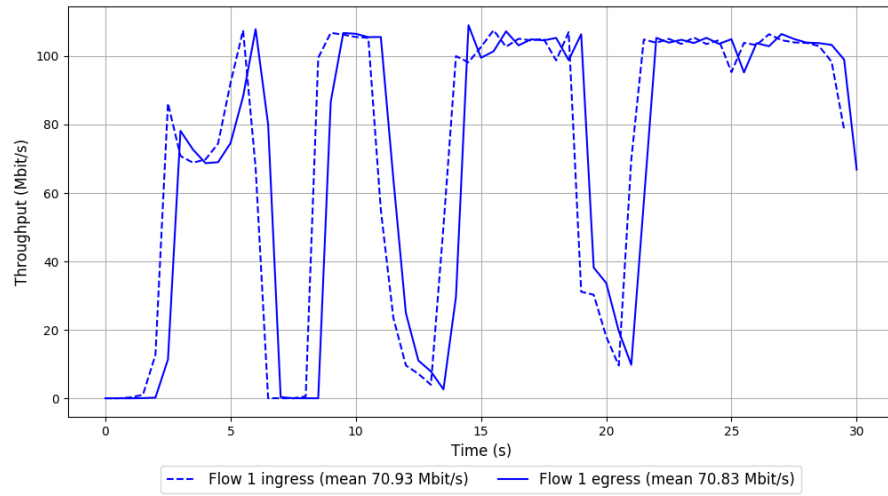
-- Flow 1:

Average throughput: 70.83 Mbit/s

95th percentile per-packet one-way delay: 62.265 ms

Loss rate: 0.56%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-08-27 05:58:55

End at: 2019-08-27 05:59:25

Local clock offset: -0.089 ms

Remote clock offset: 0.061 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.11 Mbit/s

95th percentile per-packet one-way delay: 62.922 ms

Loss rate: 0.56%

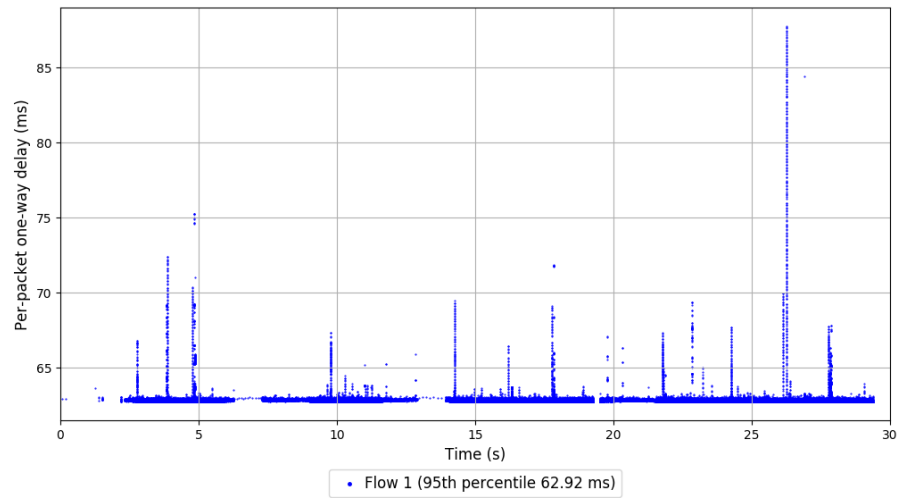
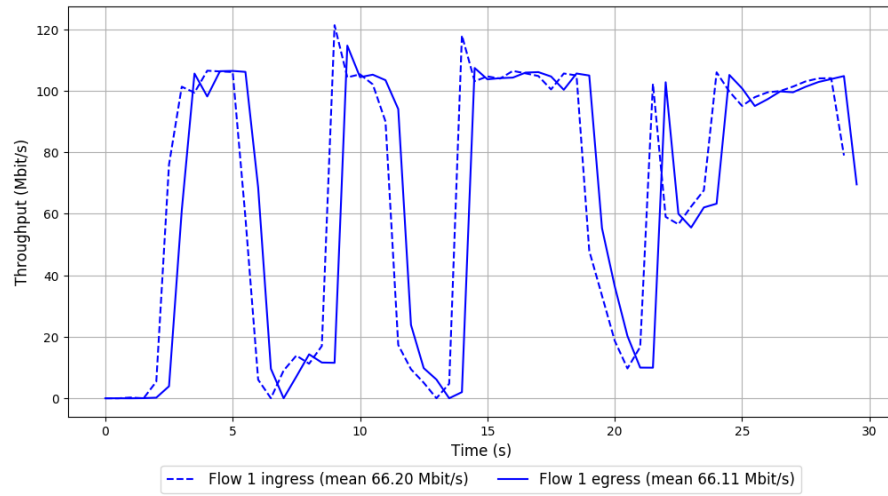
-- Flow 1:

Average throughput: 66.11 Mbit/s

95th percentile per-packet one-way delay: 62.922 ms

Loss rate: 0.56%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-08-27 06:33:43

End at: 2019-08-27 06:34:13

Local clock offset: -0.064 ms

Remote clock offset: -0.16 ms

Below is generated by plot.py at 2019-08-27 08:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.94 Mbit/s

95th percentile per-packet one-way delay: 60.014 ms

Loss rate: 0.68%

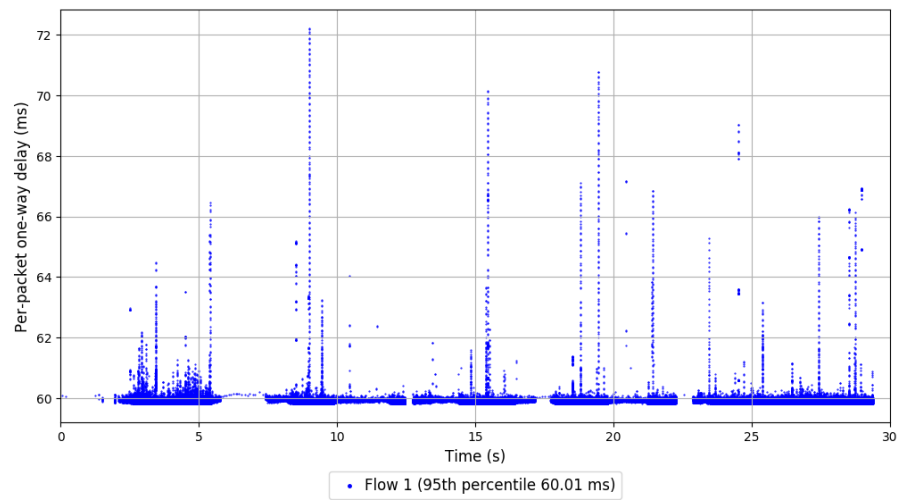
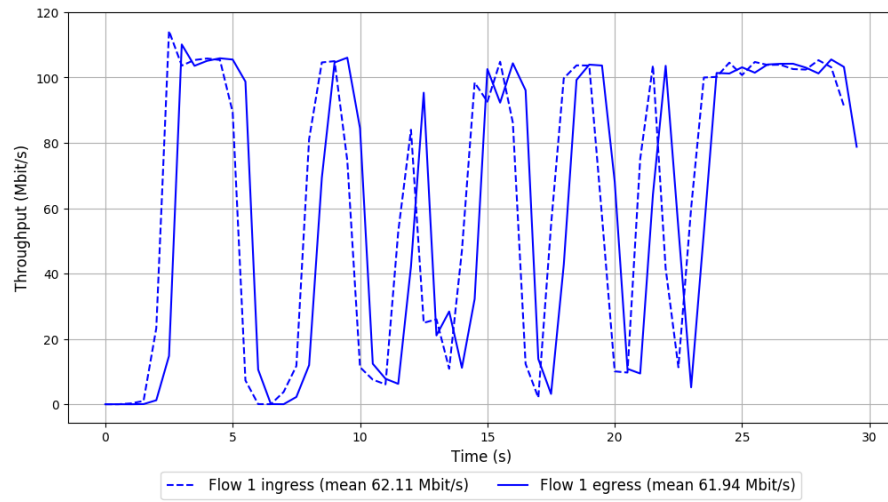
-- Flow 1:

Average throughput: 61.94 Mbit/s

95th percentile per-packet one-way delay: 60.014 ms

Loss rate: 0.68%

Run 5: Report of QUIC Cubic — Data Link

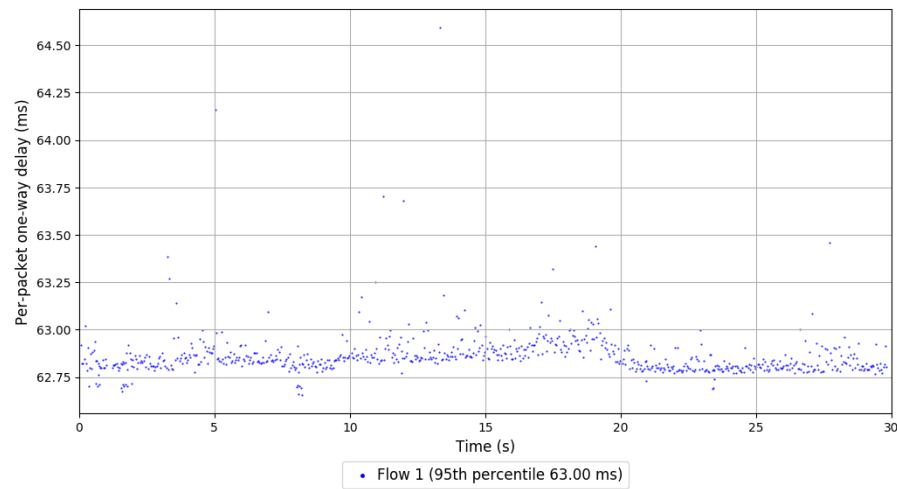
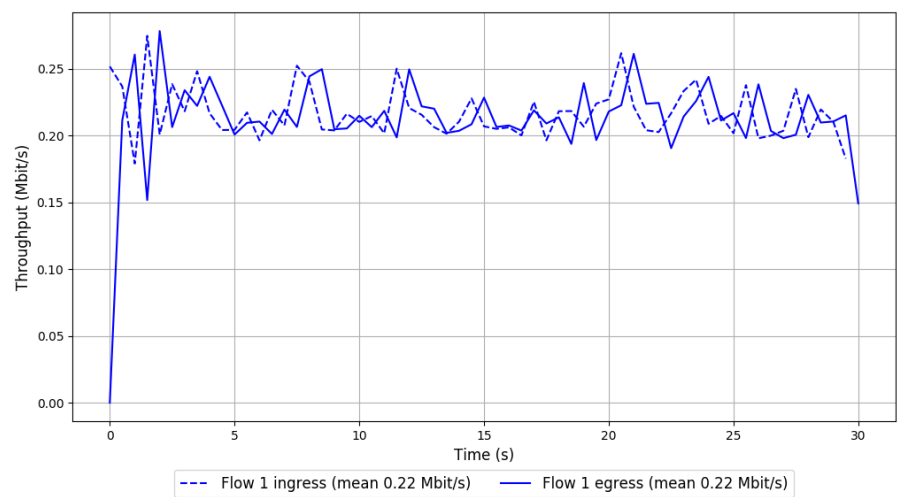


```
Run 1: Statistics of SCReAM

Start at: 2019-08-27 03:58:44
End at: 2019-08-27 03:59:14
Local clock offset: -0.234 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2019-08-27 08:43:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.000 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.000 ms
Loss rate: 0.51%
```

Run 1: Report of SReAM — Data Link

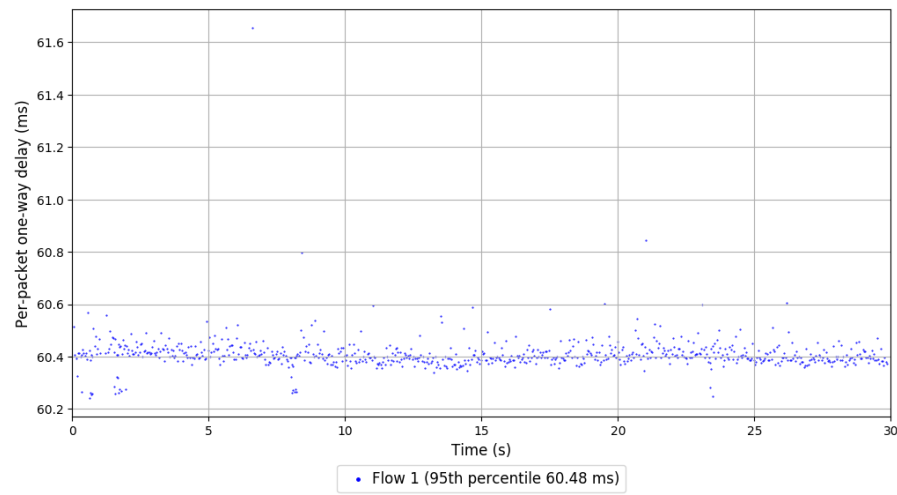
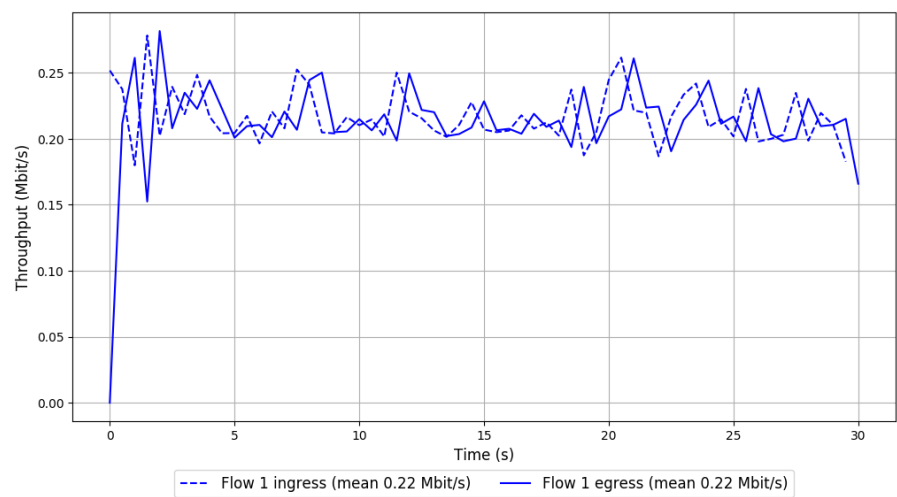


Run 2: Statistics of SCReAM

Start at: 2019-08-27 04:33:13
End at: 2019-08-27 04:33:43
Local clock offset: 0.366 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2019-08-27 08:43:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.482 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.482 ms
Loss rate: 0.38%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-08-27 05:08:08

End at: 2019-08-27 05:08:38

Local clock offset: 0.229 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2019-08-27 08:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.307 ms

Loss rate: 0.39%

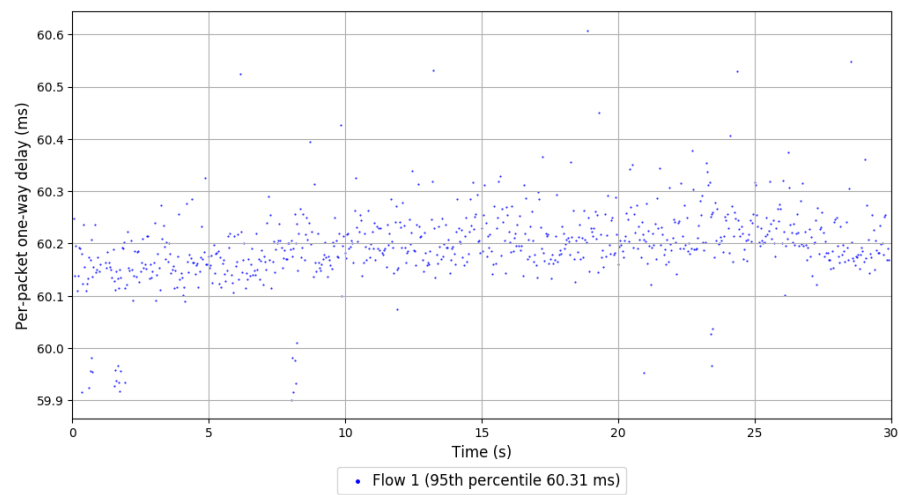
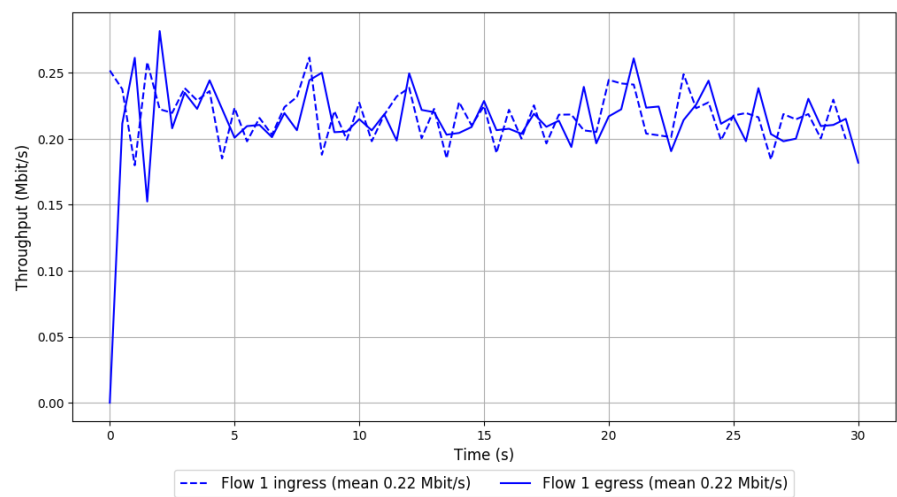
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.307 ms

Loss rate: 0.39%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-08-27 05:42:47

End at: 2019-08-27 05:43:17

Local clock offset: -0.051 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2019-08-27 08:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.259 ms

Loss rate: 0.51%

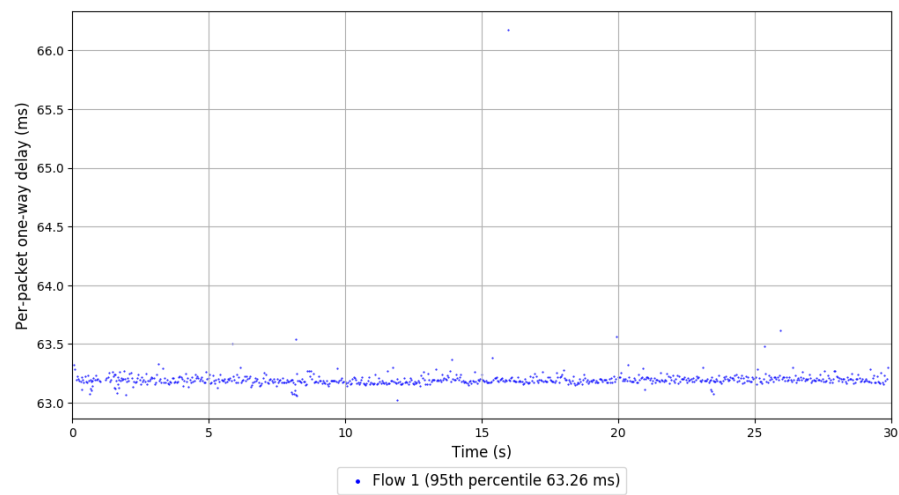
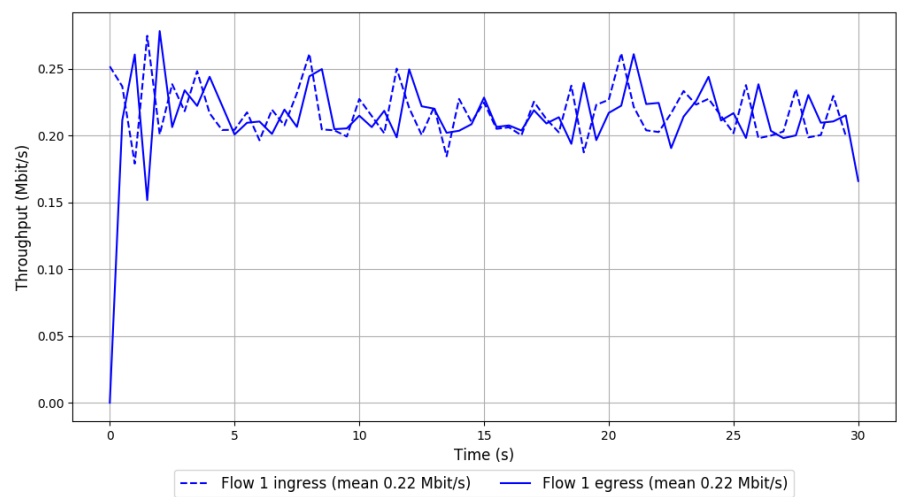
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.259 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link

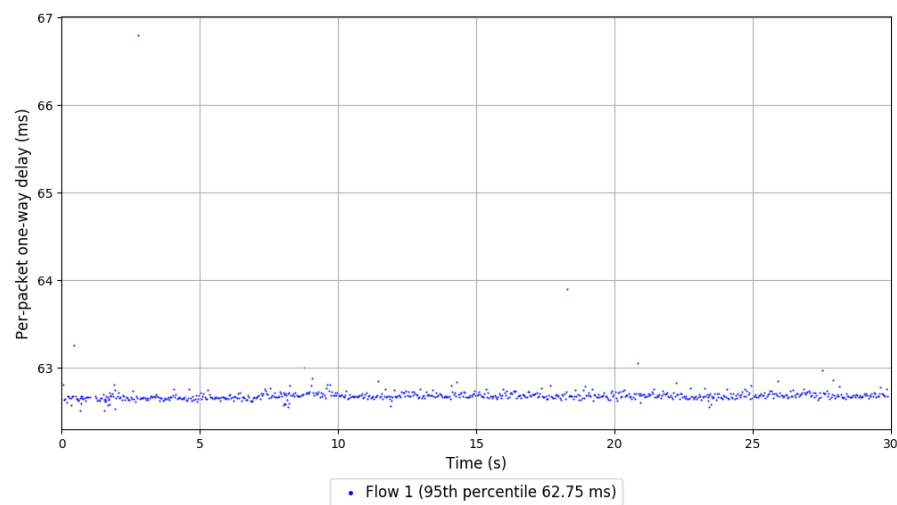
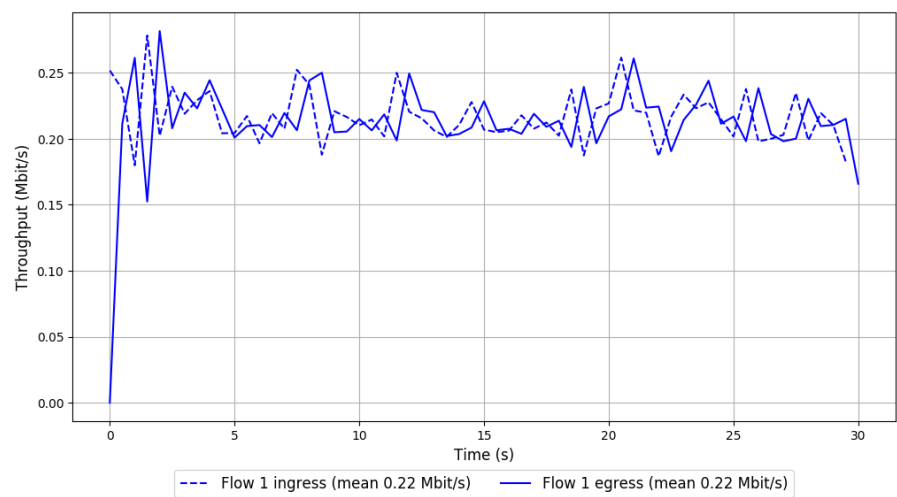


Run 5: Statistics of SCReAM

Start at: 2019-08-27 06:17:25
End at: 2019-08-27 06:17:55
Local clock offset: -0.063 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2019-08-27 08:43:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.750 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.750 ms
Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-08-27 04:24:21

End at: 2019-08-27 04:24:51

Local clock offset: 0.277 ms

Remote clock offset: 0.878 ms

Below is generated by plot.py at 2019-08-27 08:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.77 Mbit/s

95th percentile per-packet one-way delay: 62.363 ms

Loss rate: 0.50%

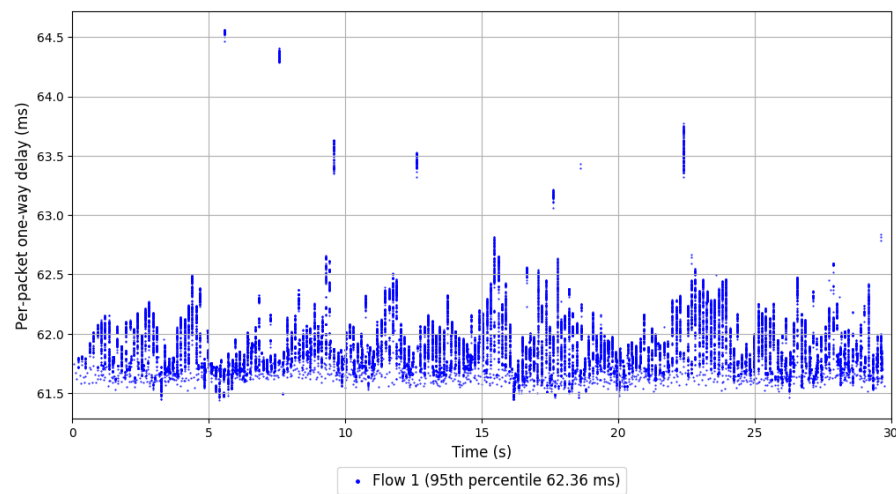
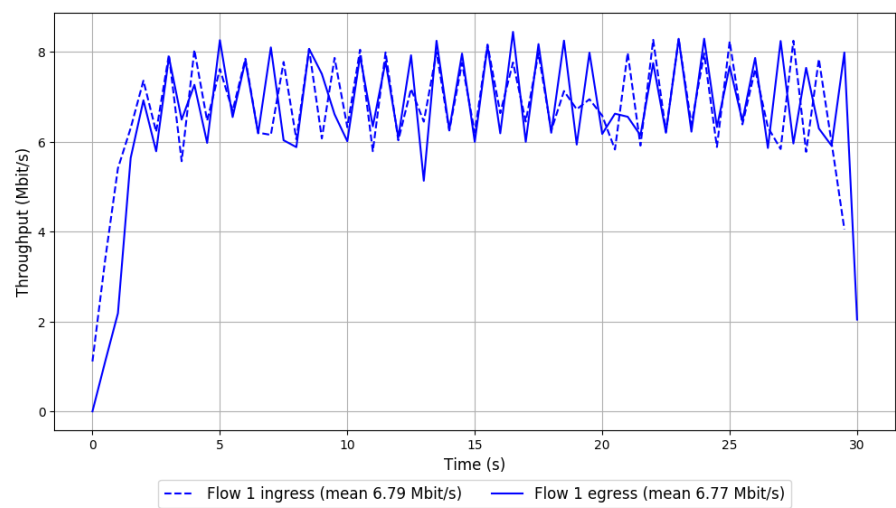
-- Flow 1:

Average throughput: 6.77 Mbit/s

95th percentile per-packet one-way delay: 62.363 ms

Loss rate: 0.50%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-08-27 04:59:18

End at: 2019-08-27 04:59:48

Local clock offset: 0.602 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2019-08-27 08:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.91 Mbit/s

95th percentile per-packet one-way delay: 61.097 ms

Loss rate: 0.46%

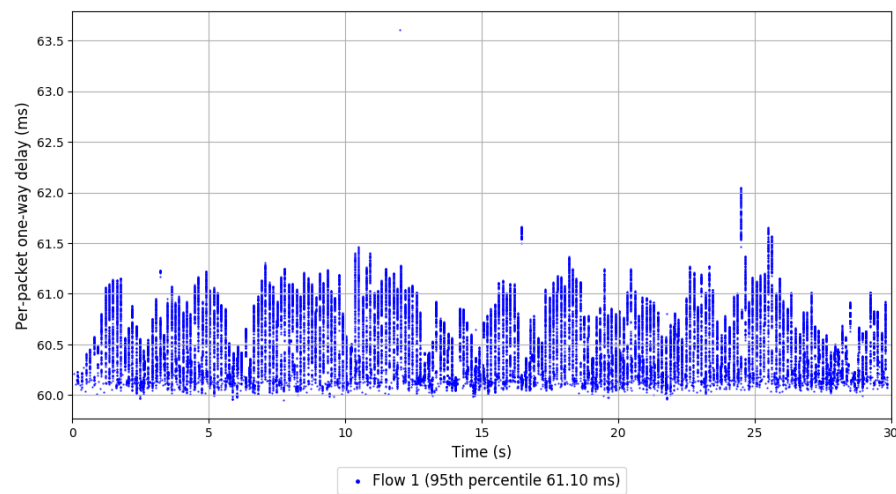
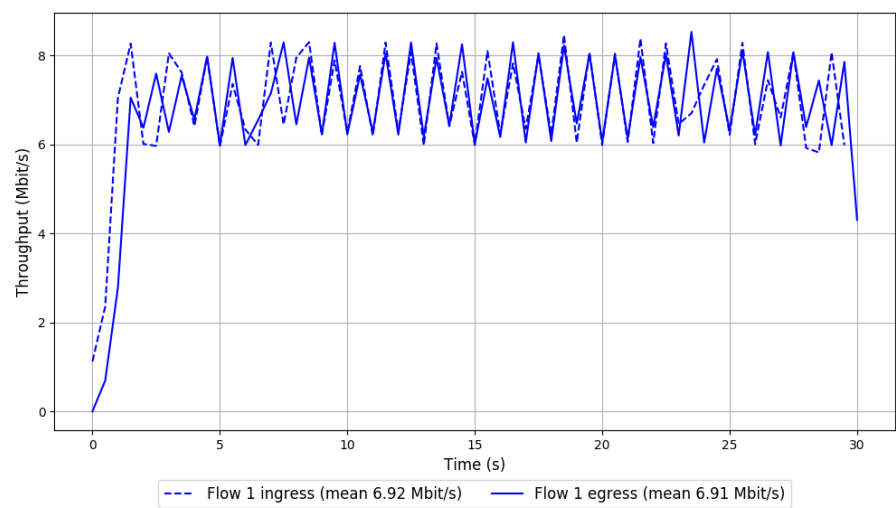
-- Flow 1:

Average throughput: 6.91 Mbit/s

95th percentile per-packet one-way delay: 61.097 ms

Loss rate: 0.46%

Run 2: Report of Sprout — Data Link

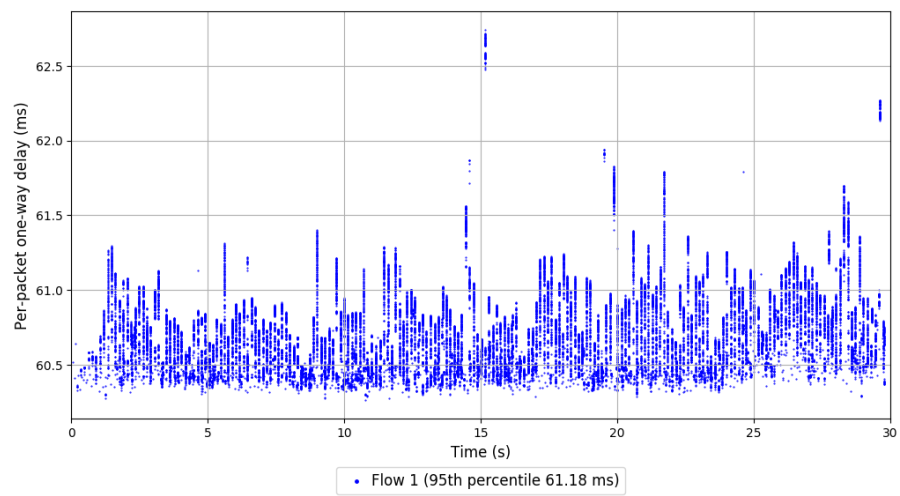
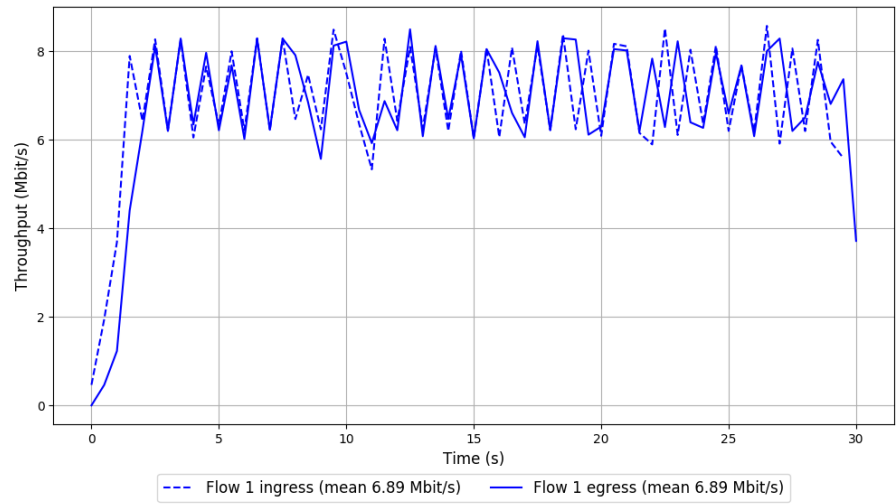


Run 3: Statistics of Sprout

Start at: 2019-08-27 05:33:54
End at: 2019-08-27 05:34:24
Local clock offset: -0.128 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2019-08-27 08:43:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 61.180 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 61.180 ms
Loss rate: 0.46%

Run 3: Report of Sprout — Data Link

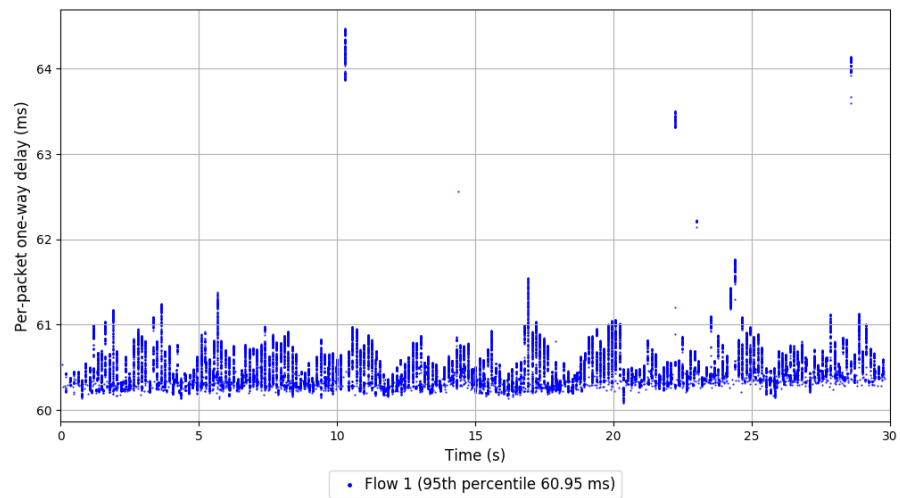
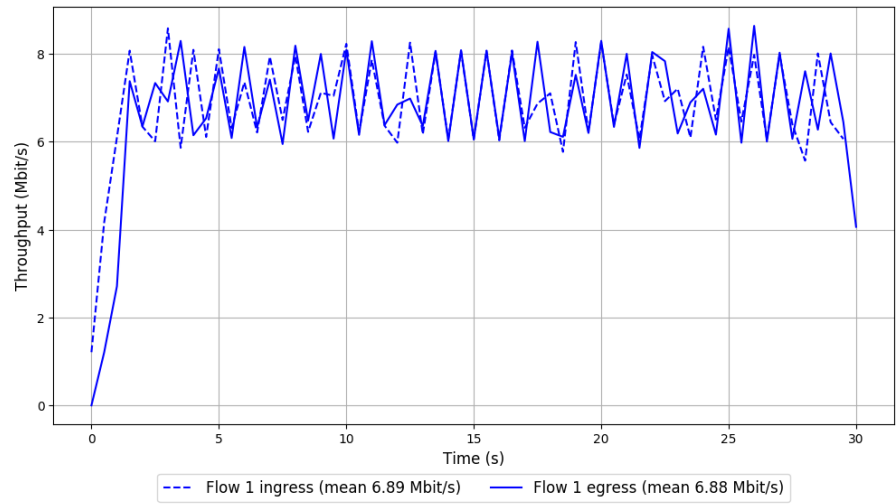


Run 4: Statistics of Sprout

Start at: 2019-08-27 06:08:36
End at: 2019-08-27 06:09:06
Local clock offset: -0.095 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2019-08-27 08:43:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 60.950 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 60.950 ms
Loss rate: 0.49%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-08-27 06:43:38

End at: 2019-08-27 06:44:08

Local clock offset: -0.087 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2019-08-27 08:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 60.768 ms

Loss rate: 0.31%

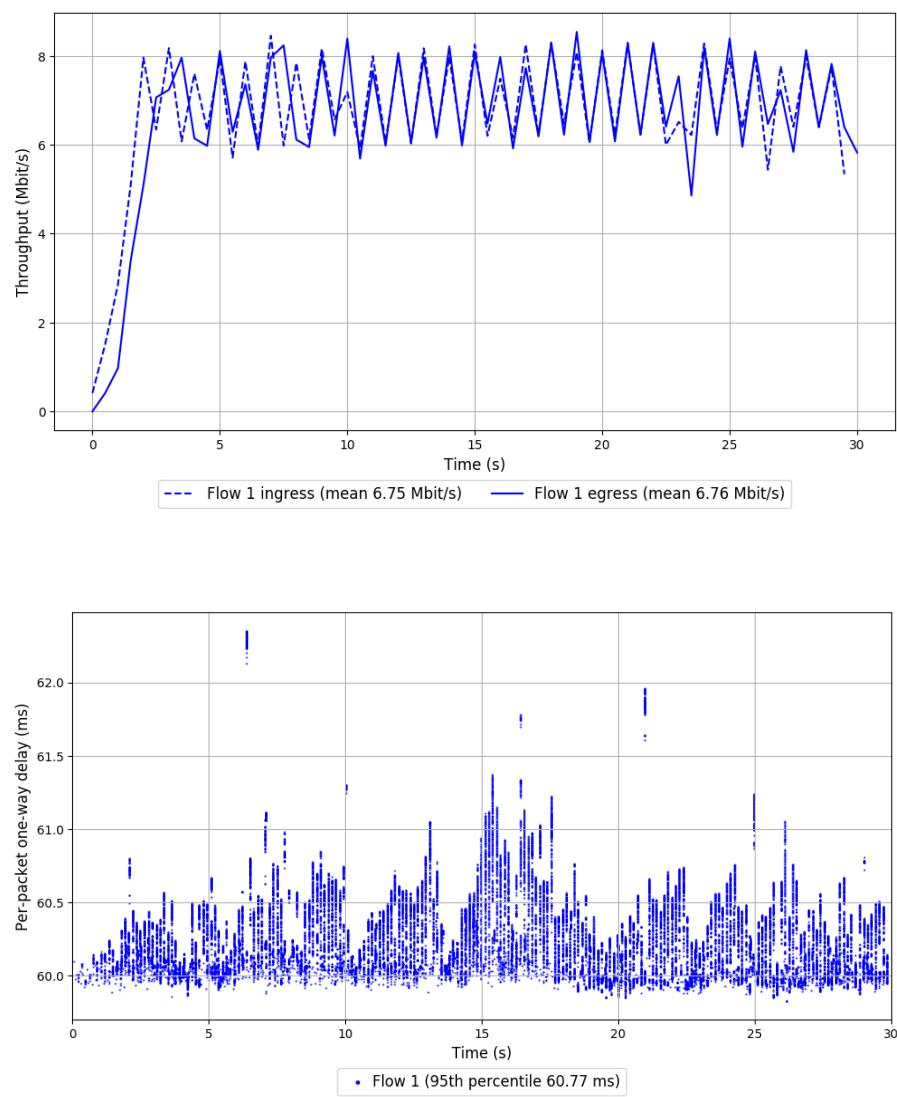
-- Flow 1:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 60.768 ms

Loss rate: 0.31%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-08-27 04:05:39

End at: 2019-08-27 04:06:09

Local clock offset: -0.025 ms

Remote clock offset: -0.053 ms

Below is generated by plot.py at 2019-08-27 08:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.68 Mbit/s

95th percentile per-packet one-way delay: 61.932 ms

Loss rate: 0.46%

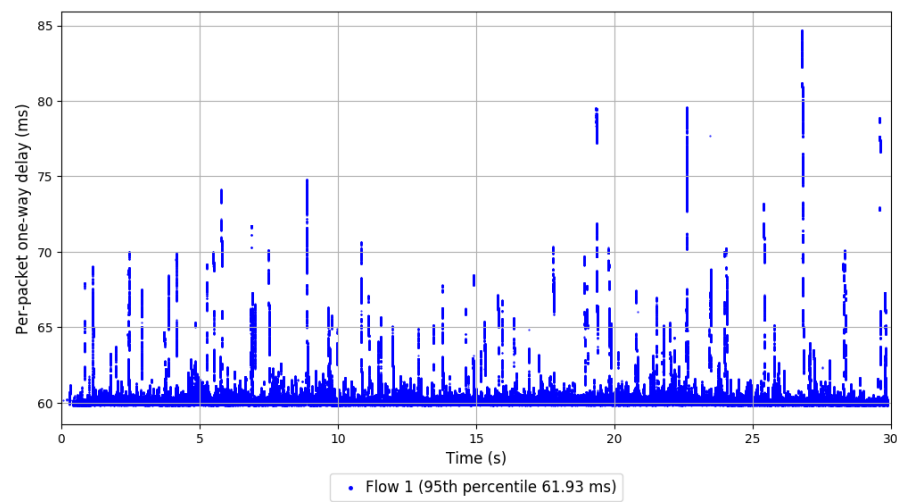
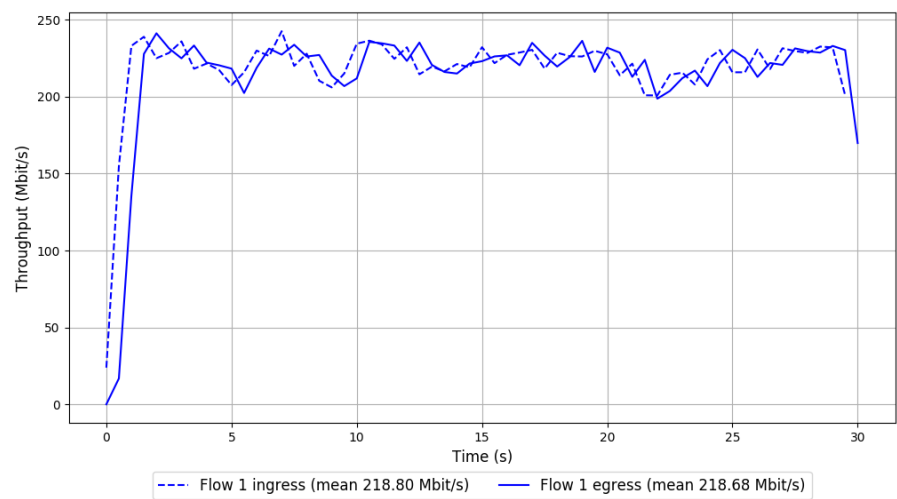
-- Flow 1:

Average throughput: 218.68 Mbit/s

95th percentile per-packet one-way delay: 61.932 ms

Loss rate: 0.46%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-08-27 04:40:10

End at: 2019-08-27 04:40:40

Local clock offset: 0.41 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2019-08-27 08:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.13 Mbit/s

95th percentile per-packet one-way delay: 60.442 ms

Loss rate: 0.34%

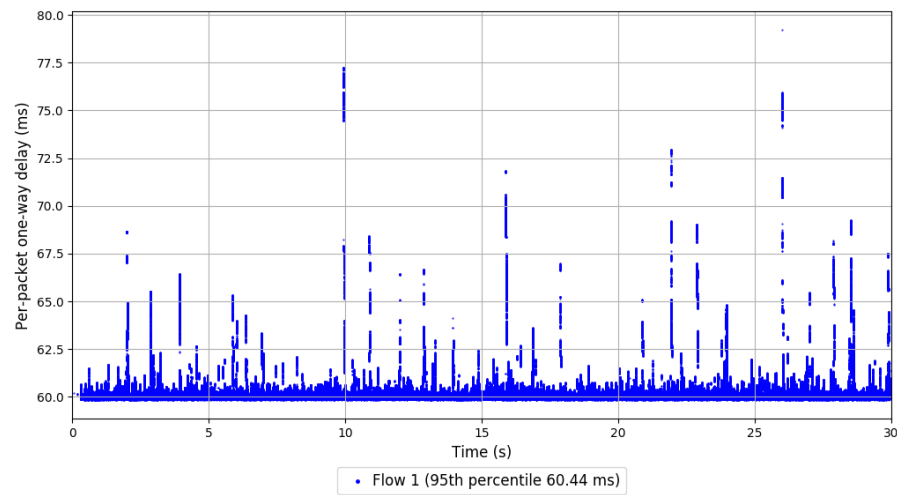
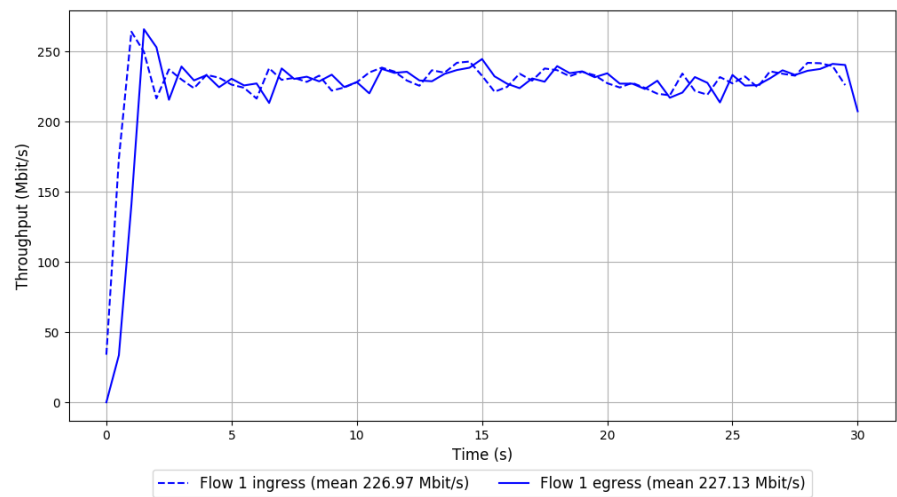
-- Flow 1:

Average throughput: 227.13 Mbit/s

95th percentile per-packet one-way delay: 60.442 ms

Loss rate: 0.34%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-08-27 05:15:02

End at: 2019-08-27 05:15:32

Local clock offset: 0.065 ms

Remote clock offset: -0.146 ms

Below is generated by plot.py at 2019-08-27 08:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.81 Mbit/s

95th percentile per-packet one-way delay: 60.916 ms

Loss rate: 0.40%

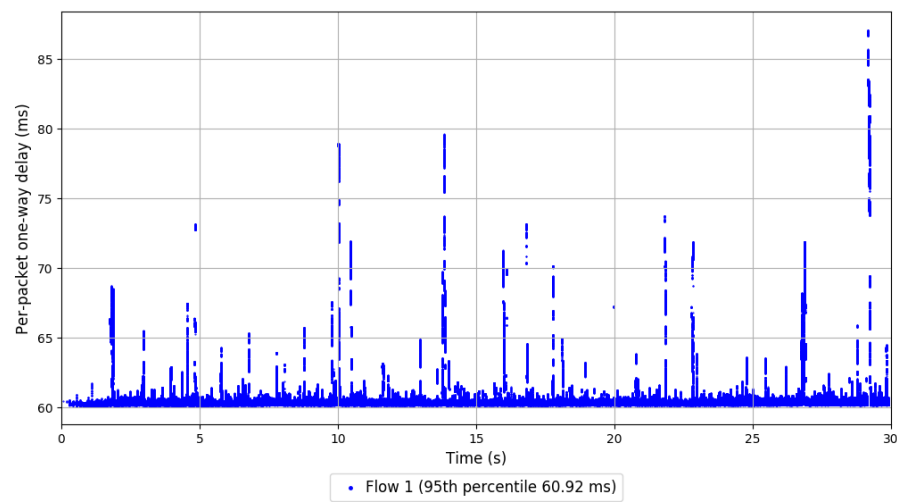
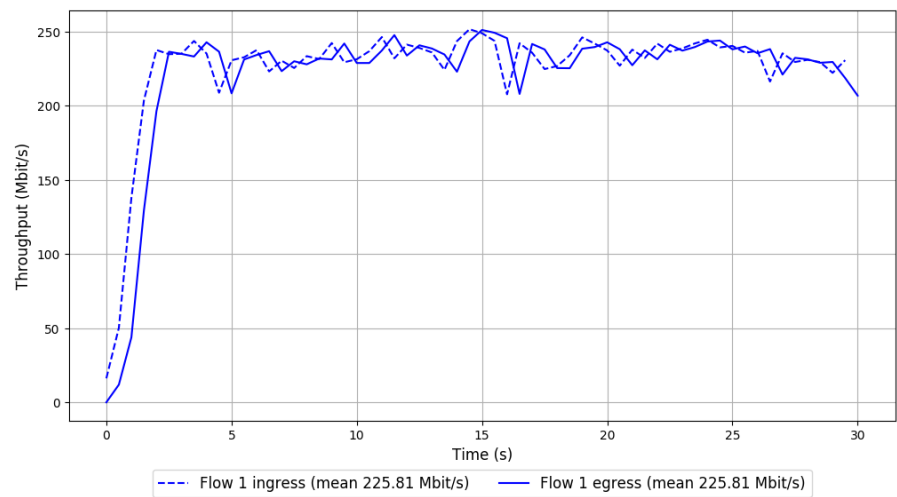
-- Flow 1:

Average throughput: 225.81 Mbit/s

95th percentile per-packet one-way delay: 60.916 ms

Loss rate: 0.40%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-08-27 05:49:42

End at: 2019-08-27 05:50:12

Local clock offset: -0.039 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2019-08-27 08:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.02 Mbit/s

95th percentile per-packet one-way delay: 62.907 ms

Loss rate: 0.44%

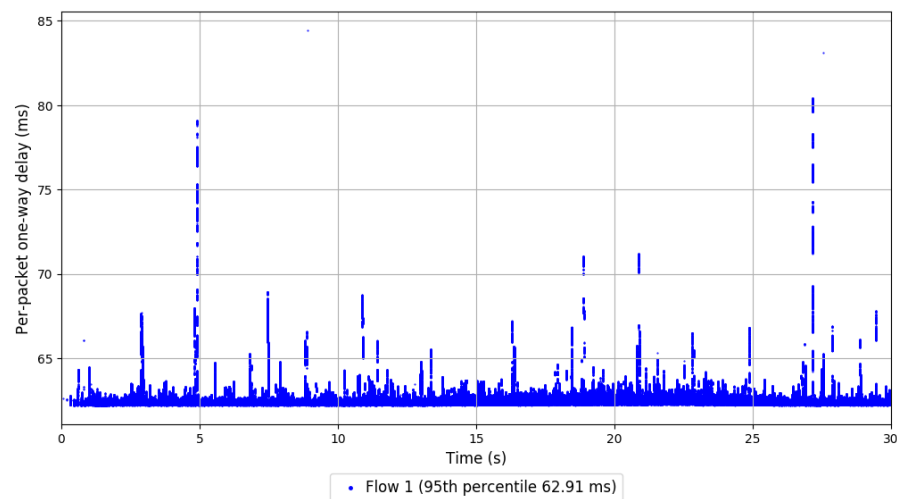
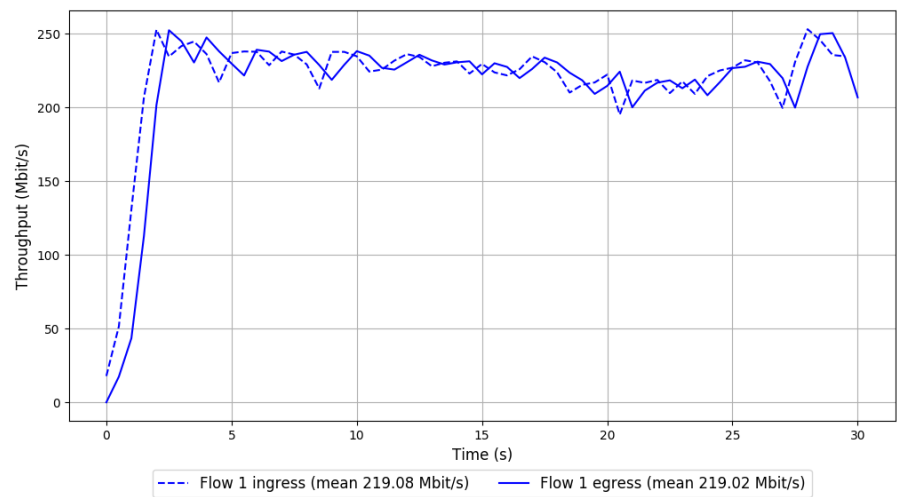
-- Flow 1:

Average throughput: 219.02 Mbit/s

95th percentile per-packet one-way delay: 62.907 ms

Loss rate: 0.44%

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

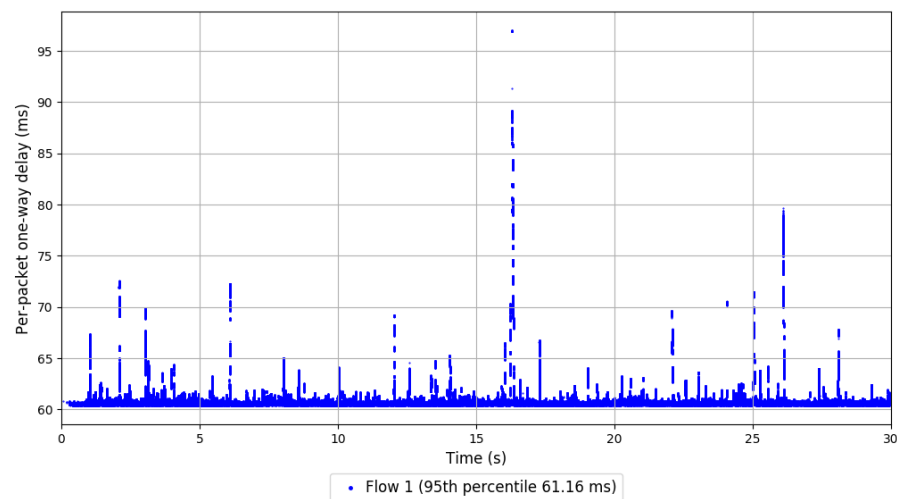
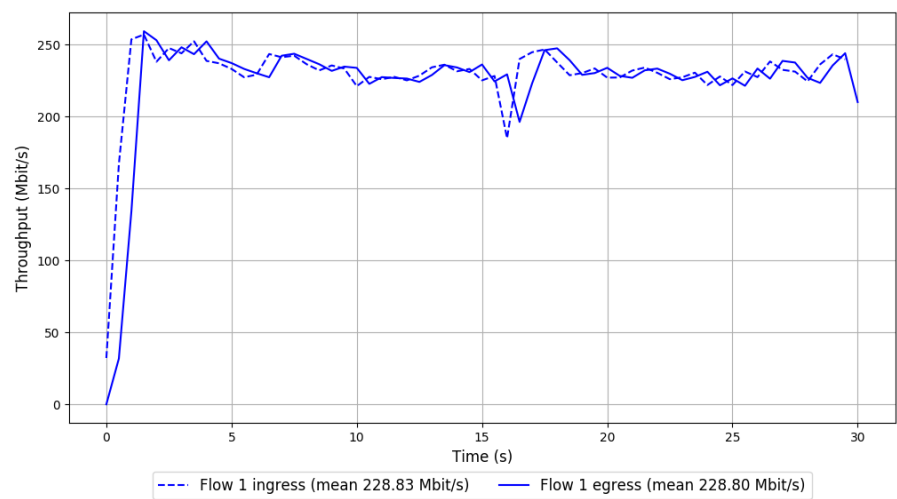


Run 5: Statistics of TaoVA-100x

Start at: 2019-08-27 06:24:30
End at: 2019-08-27 06:25:00
Local clock offset: -0.048 ms
Remote clock offset: -0.697 ms

Below is generated by plot.py at 2019-08-27 08:44:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 228.80 Mbit/s
95th percentile per-packet one-way delay: 61.158 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 228.80 Mbit/s
95th percentile per-packet one-way delay: 61.158 ms
Loss rate: 0.42%

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

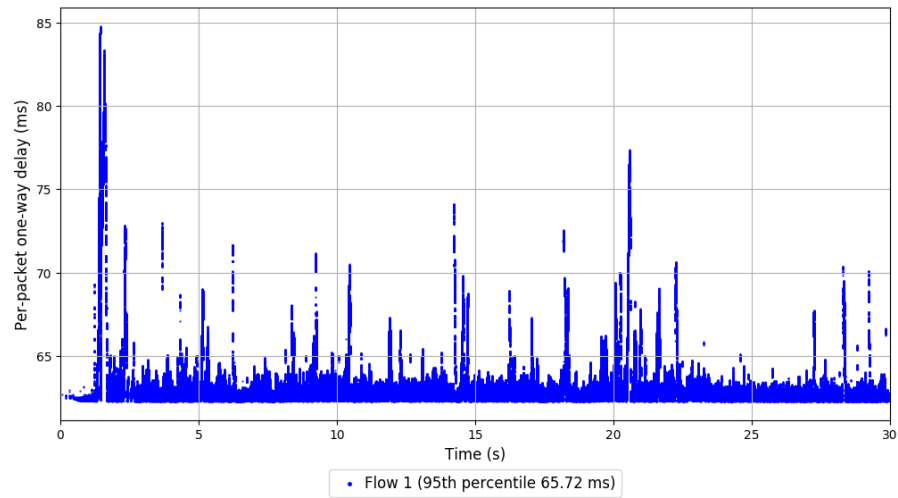
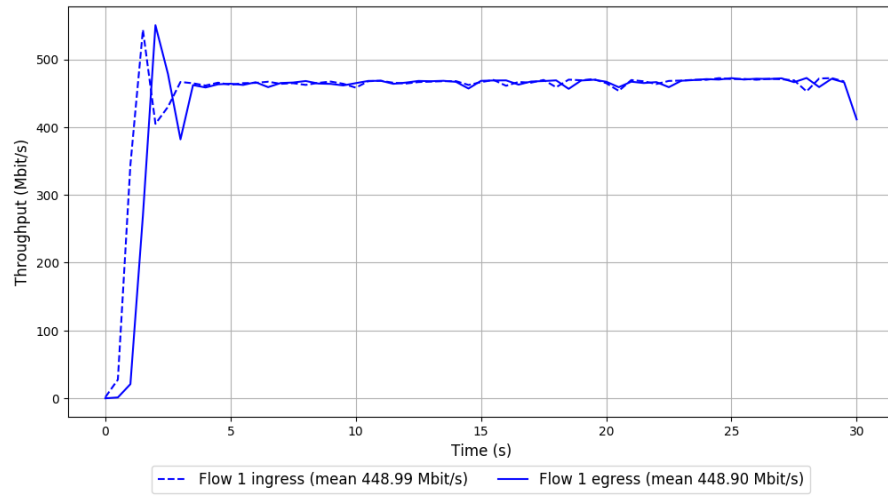


Run 1: Statistics of TCP Vegas

Start at: 2019-08-27 04:22:51
End at: 2019-08-27 04:23:22
Local clock offset: 0.277 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2019-08-27 08:45:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 448.90 Mbit/s
95th percentile per-packet one-way delay: 65.717 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 448.90 Mbit/s
95th percentile per-packet one-way delay: 65.717 ms
Loss rate: 0.43%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-08-27 04:57:48

End at: 2019-08-27 04:58:18

Local clock offset: 0.592 ms

Remote clock offset: 0.263 ms

Below is generated by plot.py at 2019-08-27 08:47:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 447.79 Mbit/s

95th percentile per-packet one-way delay: 66.522 ms

Loss rate: 0.41%

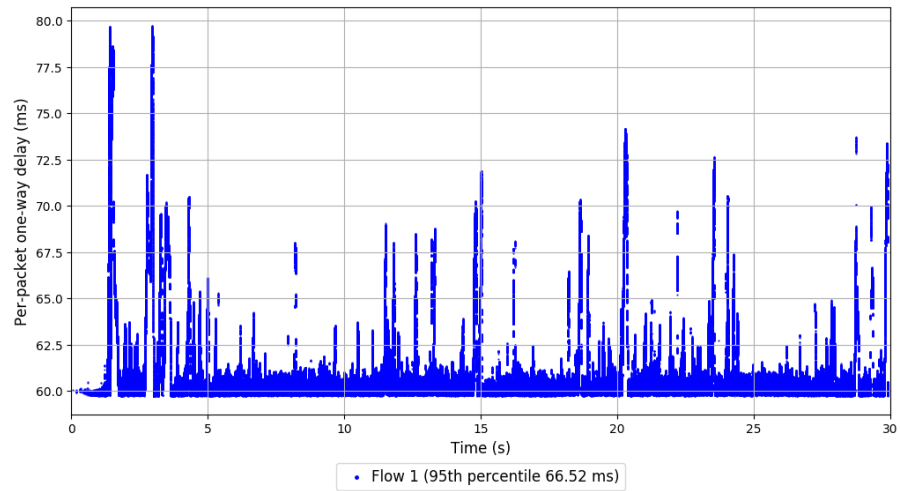
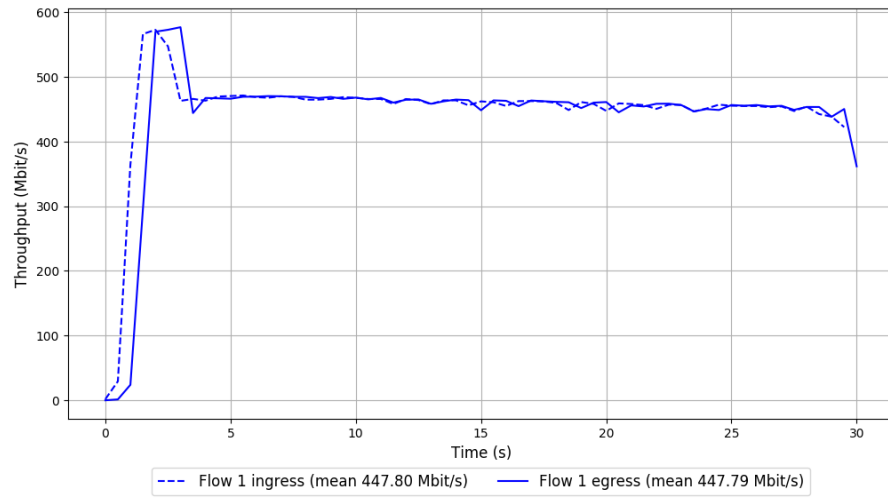
-- Flow 1:

Average throughput: 447.79 Mbit/s

95th percentile per-packet one-way delay: 66.522 ms

Loss rate: 0.41%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-08-27 05:32:29

End at: 2019-08-27 05:32:59

Local clock offset: -0.092 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2019-08-27 08:48:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.50 Mbit/s

95th percentile per-packet one-way delay: 65.084 ms

Loss rate: 0.43%

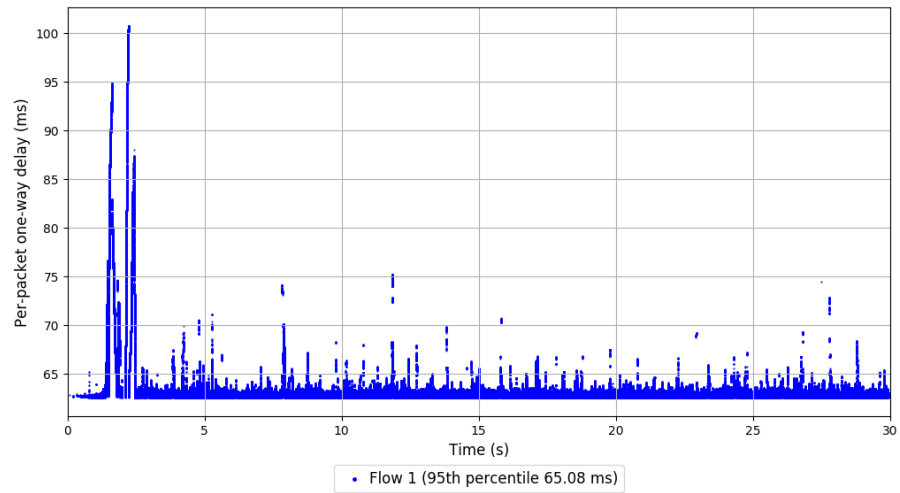
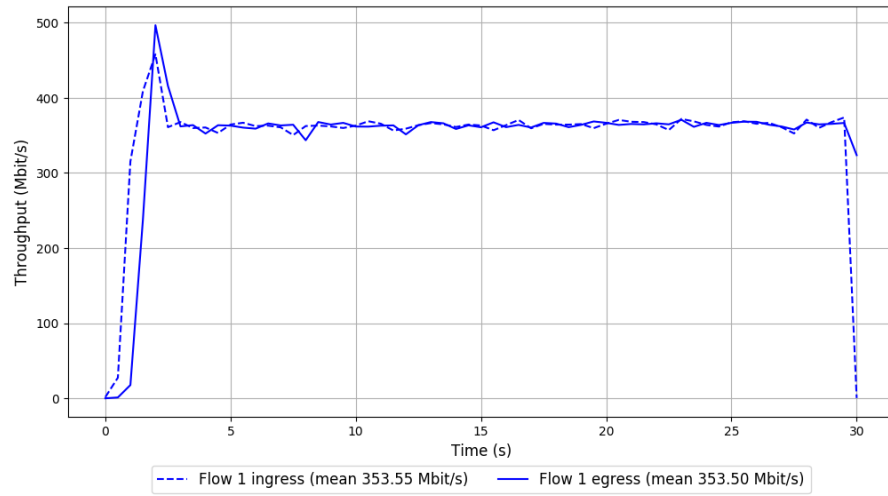
-- Flow 1:

Average throughput: 353.50 Mbit/s

95th percentile per-packet one-way delay: 65.084 ms

Loss rate: 0.43%

Run 3: Report of TCP Vegas — Data Link

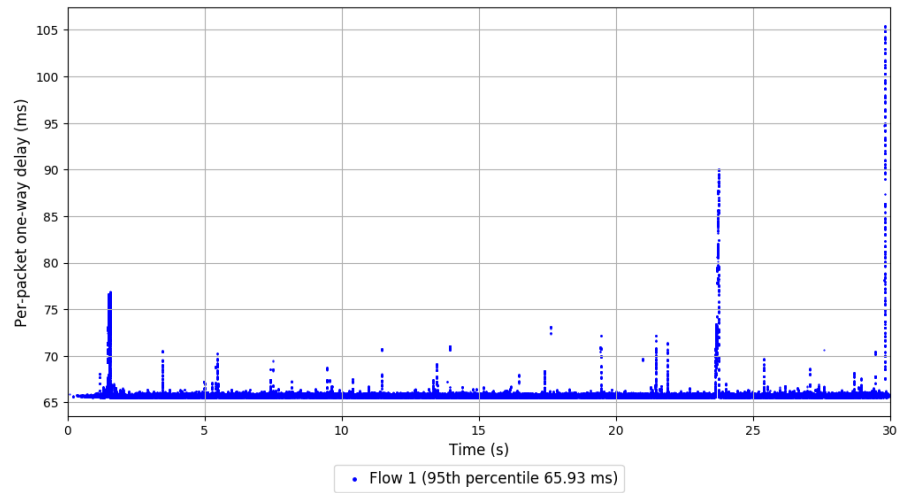
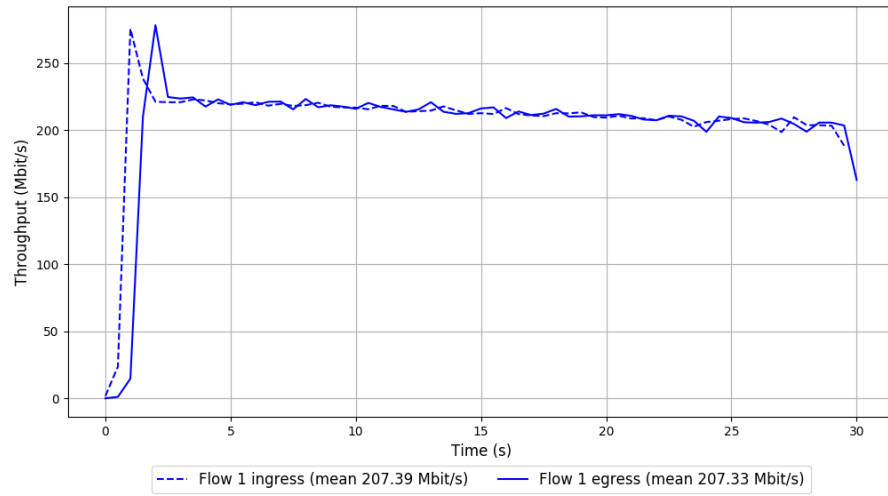


Run 4: Statistics of TCP Vegas

Start at: 2019-08-27 06:07:18
End at: 2019-08-27 06:07:48
Local clock offset: -0.096 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2019-08-27 08:48:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 207.33 Mbit/s
95th percentile per-packet one-way delay: 65.930 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 207.33 Mbit/s
95th percentile per-packet one-way delay: 65.930 ms
Loss rate: 0.42%

Run 4: Report of TCP Vegas — Data Link

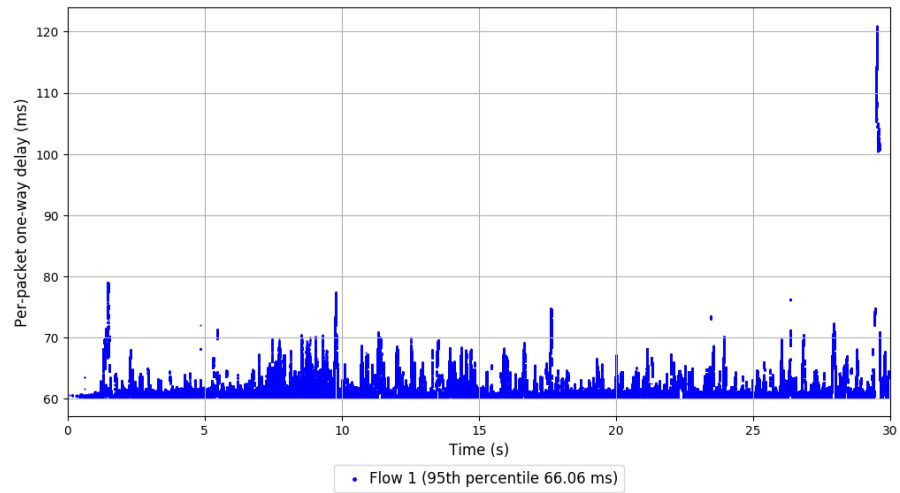
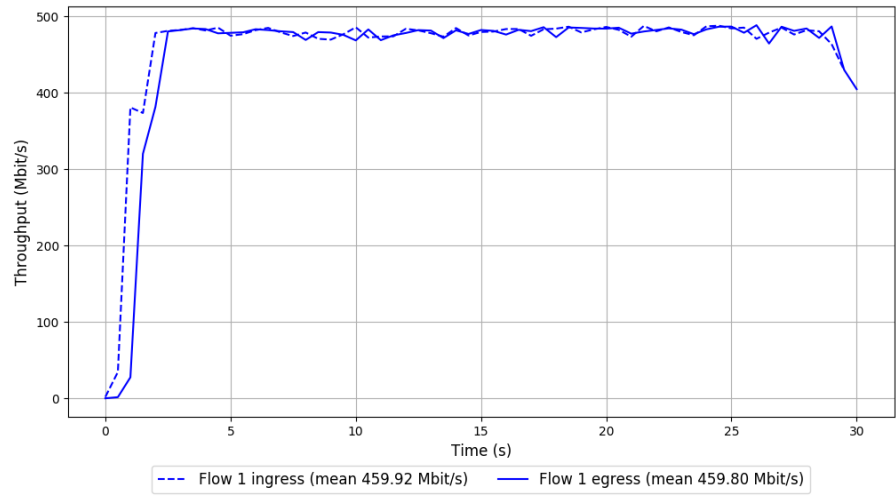


Run 5: Statistics of TCP Vegas

Start at: 2019-08-27 06:42:07
End at: 2019-08-27 06:42:37
Local clock offset: -0.092 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2019-08-27 08:51:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 459.80 Mbit/s
95th percentile per-packet one-way delay: 66.056 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 459.80 Mbit/s
95th percentile per-packet one-way delay: 66.056 ms
Loss rate: 0.43%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-08-27 04:16:49

End at: 2019-08-27 04:17:19

Local clock offset: 0.178 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2019-08-27 08:51:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.94 Mbit/s

95th percentile per-packet one-way delay: 209.241 ms

Loss rate: 2.10%

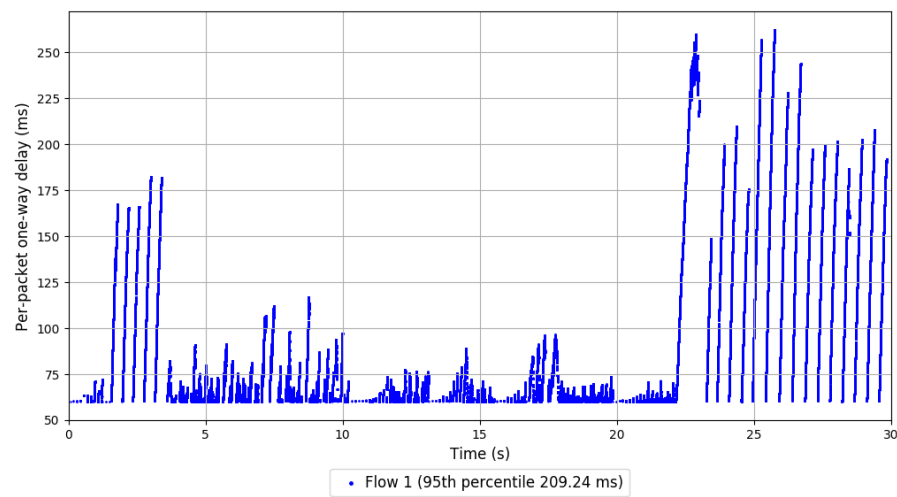
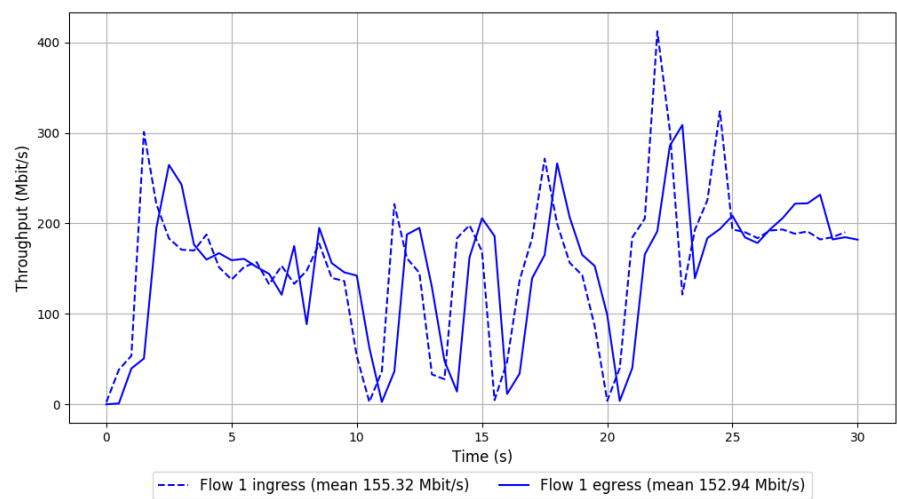
-- Flow 1:

Average throughput: 152.94 Mbit/s

95th percentile per-packet one-way delay: 209.241 ms

Loss rate: 2.10%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-08-27 04:51:49

End at: 2019-08-27 04:52:19

Local clock offset: 0.497 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2019-08-27 08:51:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.39 Mbit/s

95th percentile per-packet one-way delay: 81.786 ms

Loss rate: 0.30%

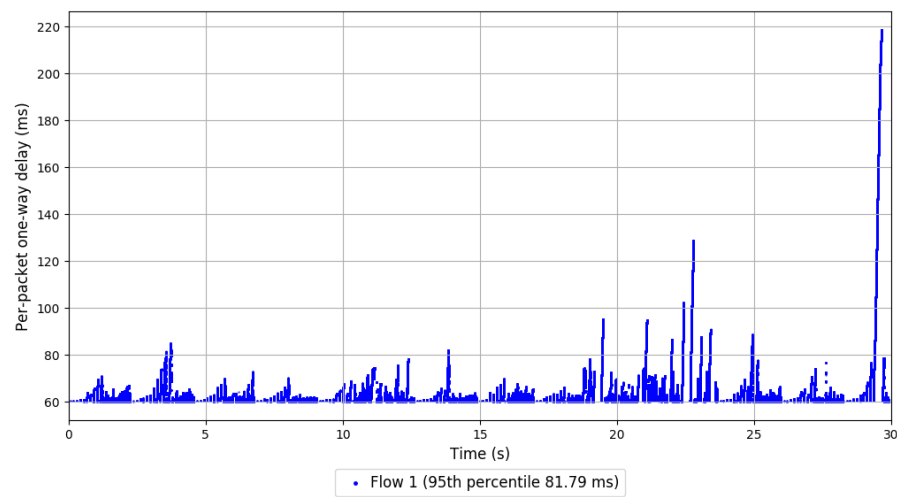
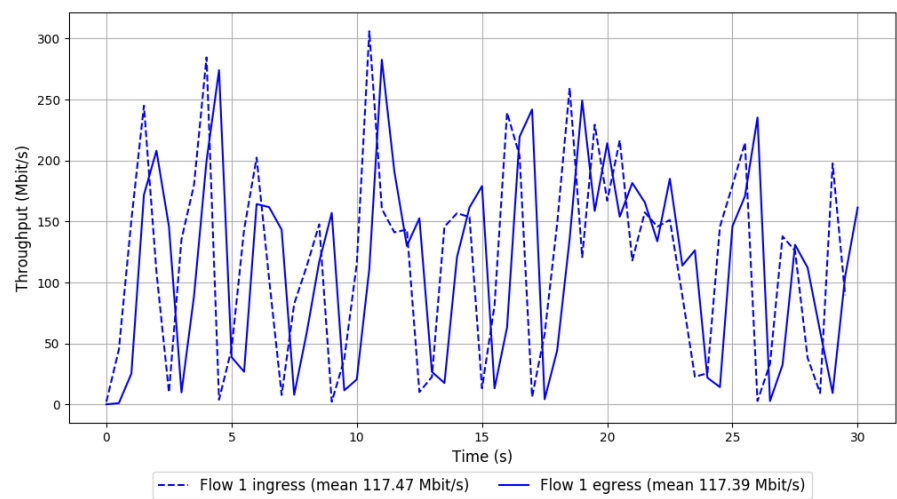
-- Flow 1:

Average throughput: 117.39 Mbit/s

95th percentile per-packet one-way delay: 81.786 ms

Loss rate: 0.30%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-08-27 05:26:28

End at: 2019-08-27 05:26:58

Local clock offset: -0.088 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2019-08-27 08:51:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.48 Mbit/s

95th percentile per-packet one-way delay: 138.511 ms

Loss rate: 1.26%

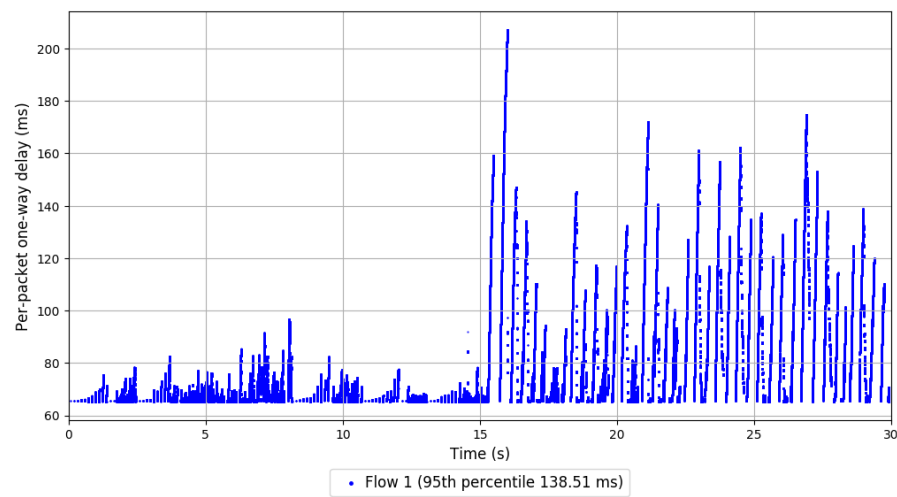
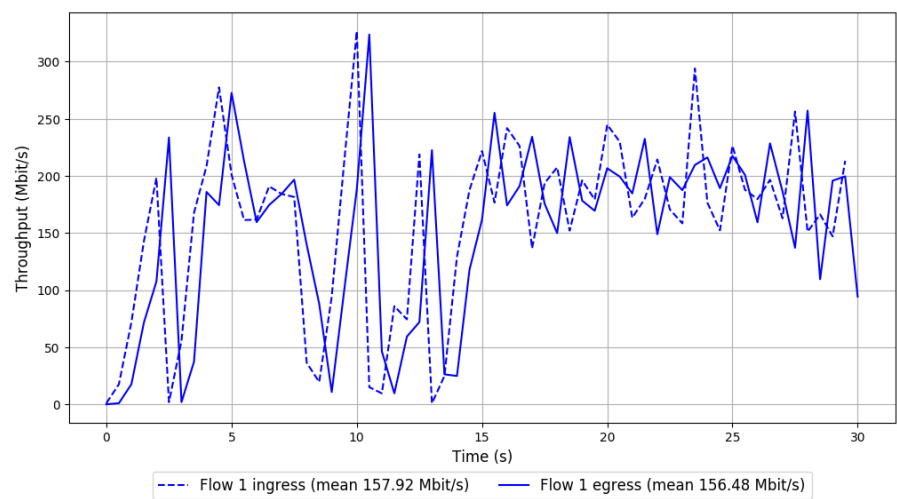
-- Flow 1:

Average throughput: 156.48 Mbit/s

95th percentile per-packet one-way delay: 138.511 ms

Loss rate: 1.26%

Run 3: Report of Verus — Data Link

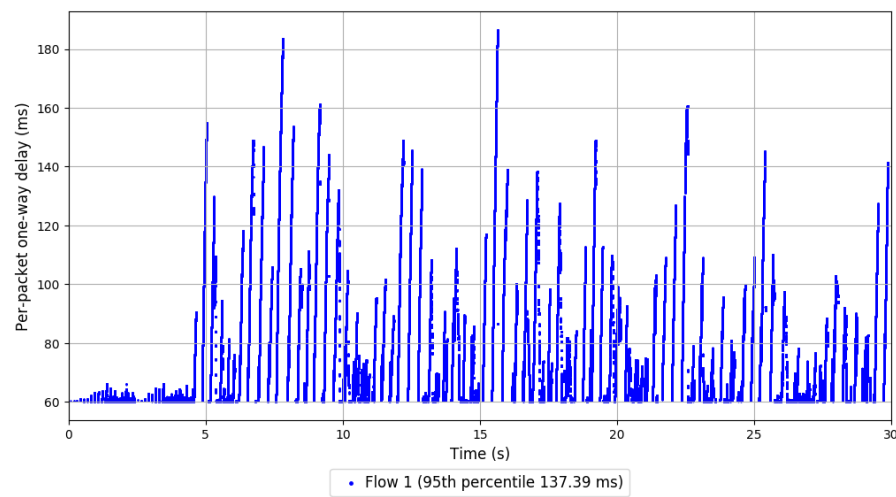
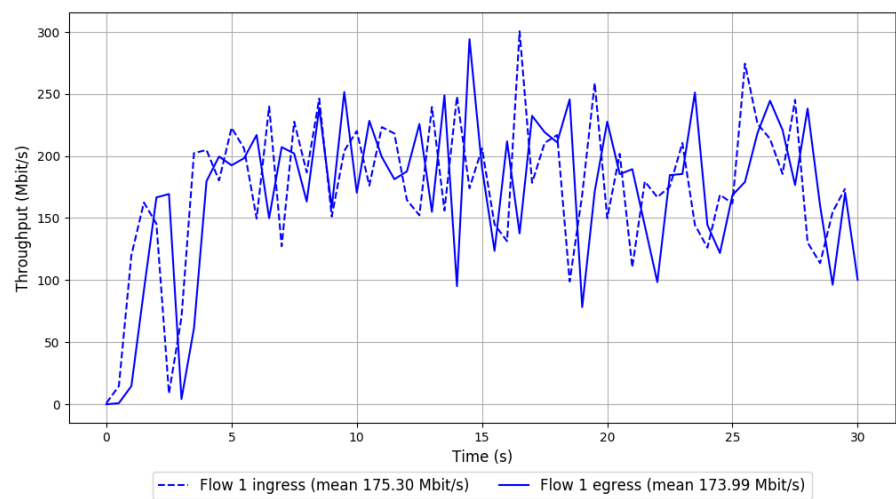


Run 4: Statistics of Verus

Start at: 2019-08-27 06:01:18
End at: 2019-08-27 06:01:48
Local clock offset: -0.048 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2019-08-27 08:51:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 173.99 Mbit/s
95th percentile per-packet one-way delay: 137.387 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 173.99 Mbit/s
95th percentile per-packet one-way delay: 137.387 ms
Loss rate: 0.88%

Run 4: Report of Verus — Data Link

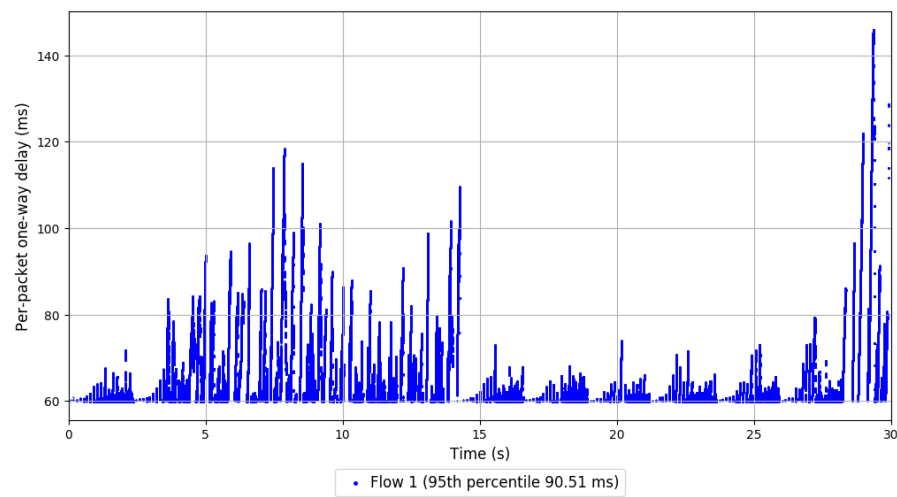
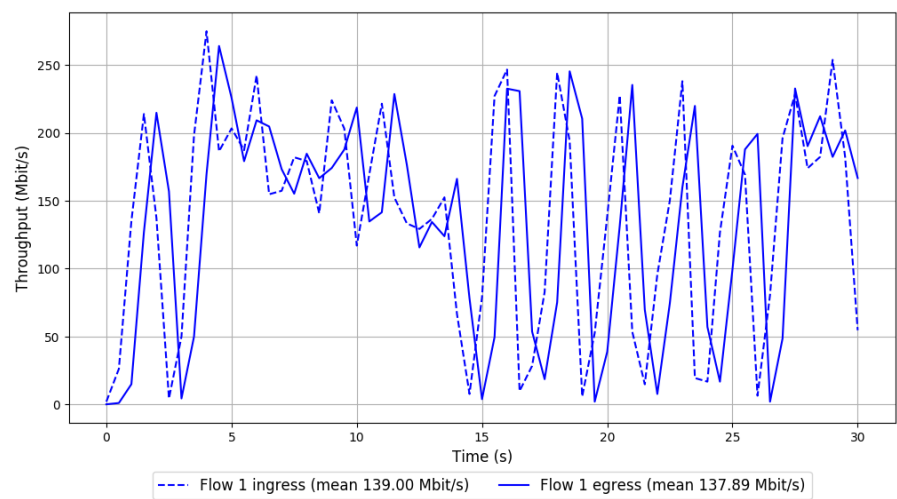


Run 5: Statistics of Verus

Start at: 2019-08-27 06:36:05
End at: 2019-08-27 06:36:35
Local clock offset: -0.055 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2019-08-27 08:51:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 137.89 Mbit/s
95th percentile per-packet one-way delay: 90.514 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 137.89 Mbit/s
95th percentile per-packet one-way delay: 90.514 ms
Loss rate: 1.46%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-08-27 04:07:07

End at: 2019-08-27 04:07:37

Local clock offset: 0.022 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2019-08-27 08:51:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.64 Mbit/s

95th percentile per-packet one-way delay: 60.377 ms

Loss rate: 0.60%

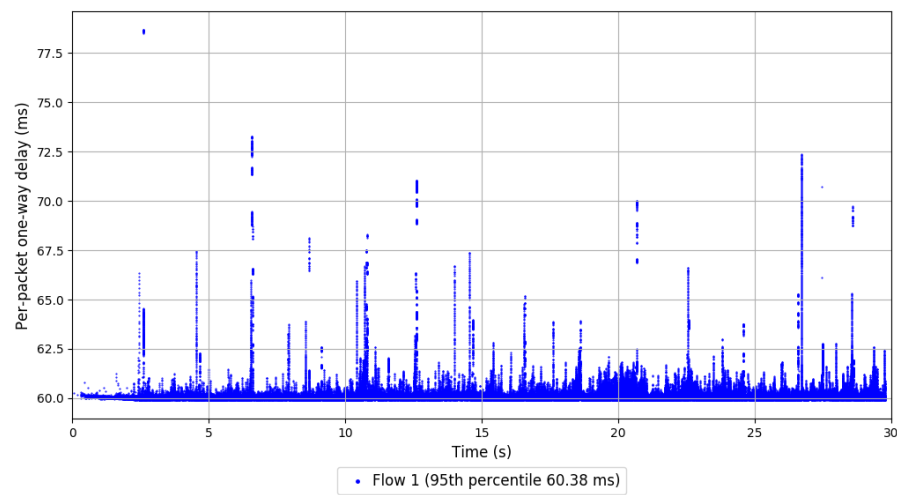
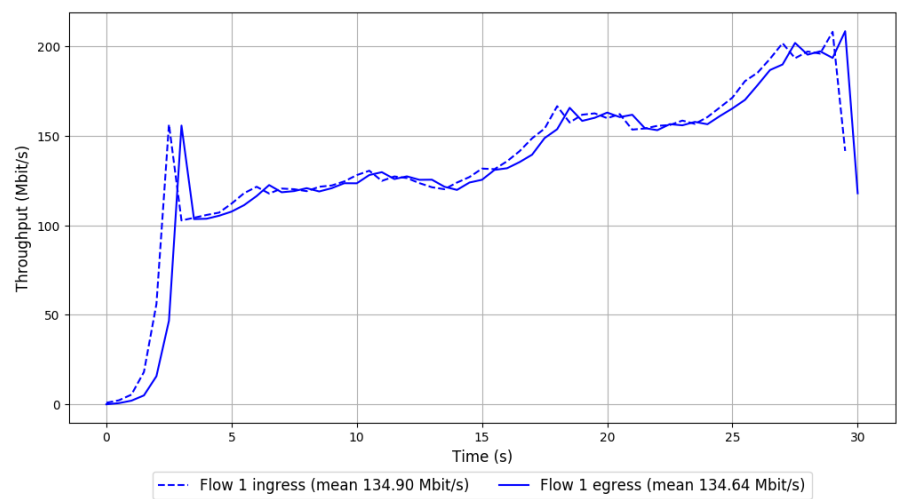
-- Flow 1:

Average throughput: 134.64 Mbit/s

95th percentile per-packet one-way delay: 60.377 ms

Loss rate: 0.60%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-08-27 04:41:39

End at: 2019-08-27 04:42:09

Local clock offset: 0.434 ms

Remote clock offset: 0.423 ms

Below is generated by plot.py at 2019-08-27 08:52:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.10 Mbit/s

95th percentile per-packet one-way delay: 73.908 ms

Loss rate: 0.37%

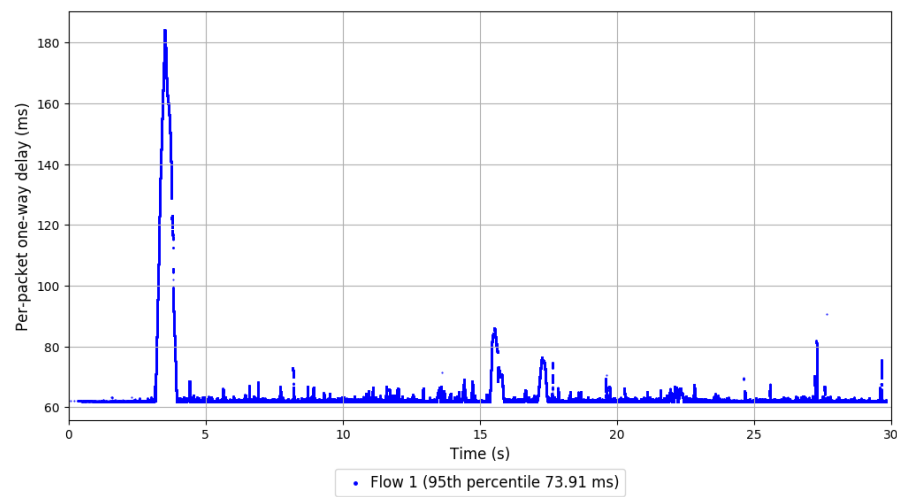
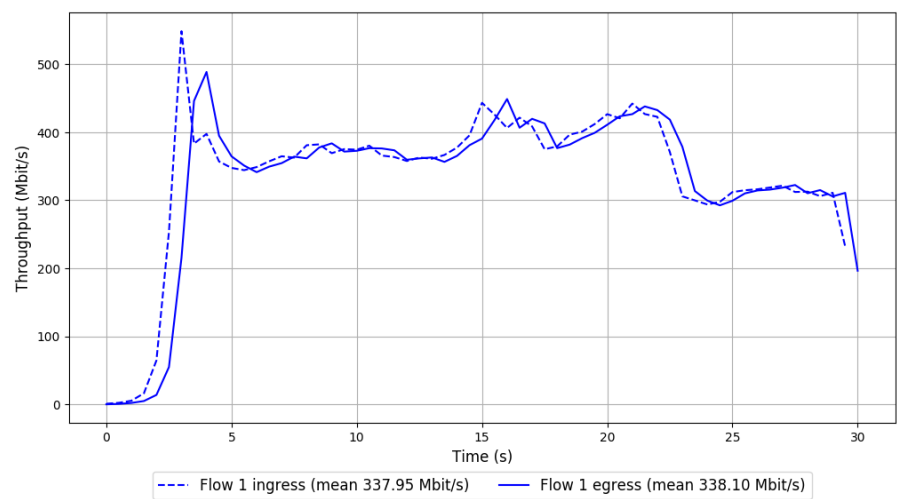
-- Flow 1:

Average throughput: 338.10 Mbit/s

95th percentile per-packet one-way delay: 73.908 ms

Loss rate: 0.37%

Run 2: Report of PCC-Vivace — Data Link

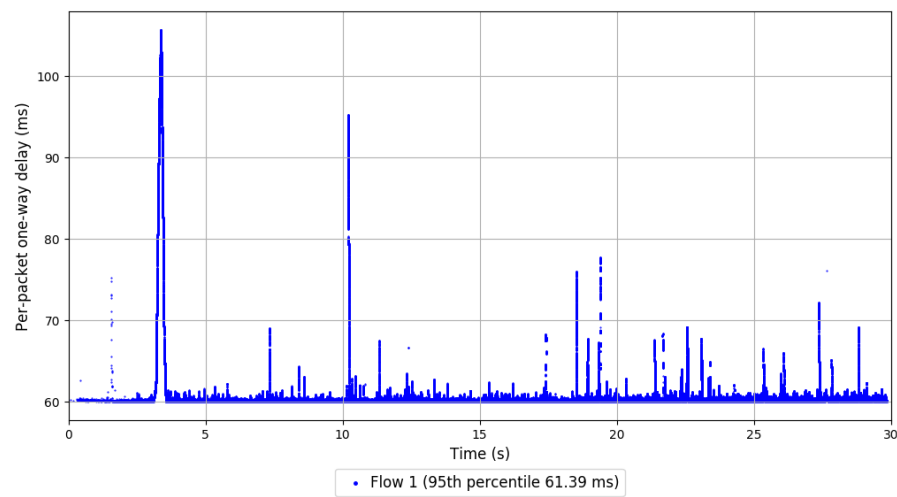
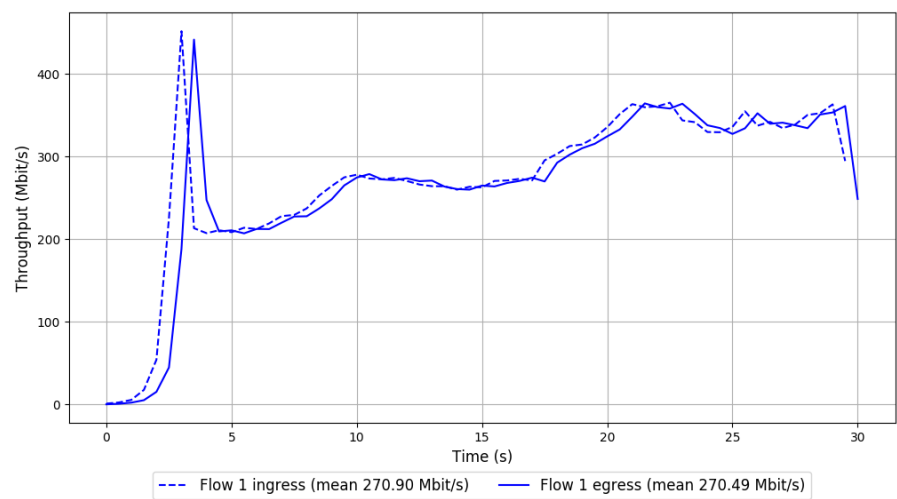


Run 3: Statistics of PCC-Vivace

Start at: 2019-08-27 05:16:30
End at: 2019-08-27 05:17:00
Local clock offset: -0.014 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2019-08-27 08:52:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 270.49 Mbit/s
95th percentile per-packet one-way delay: 61.392 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 270.49 Mbit/s
95th percentile per-packet one-way delay: 61.392 ms
Loss rate: 0.56%

Run 3: Report of PCC-Vivace — Data Link

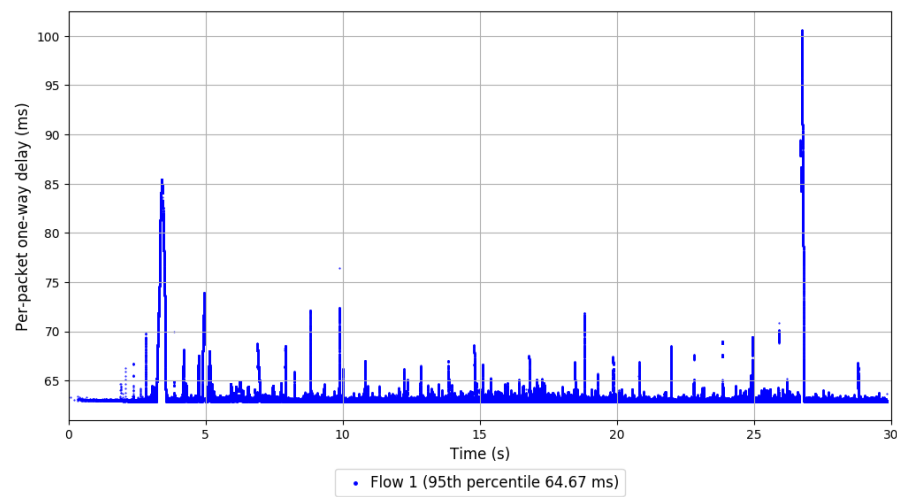
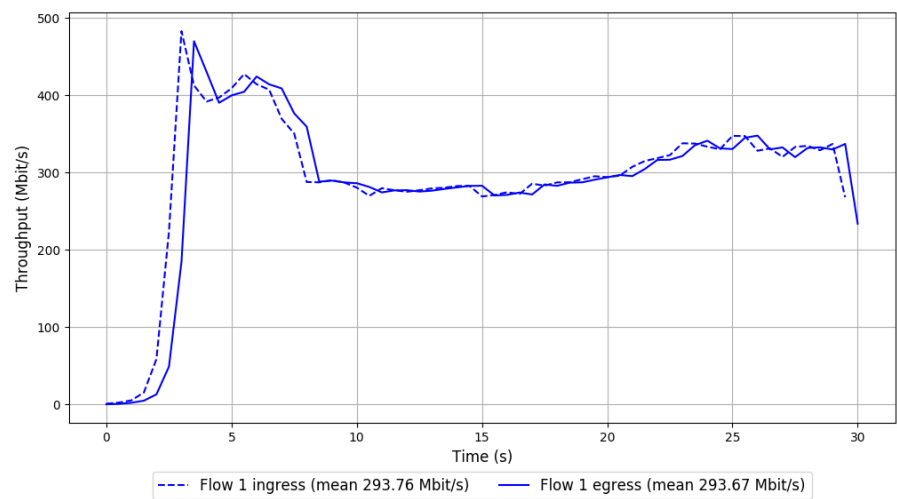


Run 4: Statistics of PCC-Vivace

Start at: 2019-08-27 05:51:10
End at: 2019-08-27 05:51:40
Local clock offset: -0.068 ms
Remote clock offset: -0.713 ms

Below is generated by plot.py at 2019-08-27 08:52:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 293.67 Mbit/s
95th percentile per-packet one-way delay: 64.665 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 293.67 Mbit/s
95th percentile per-packet one-way delay: 64.665 ms
Loss rate: 0.44%

Run 4: Report of PCC-Vivace — Data Link

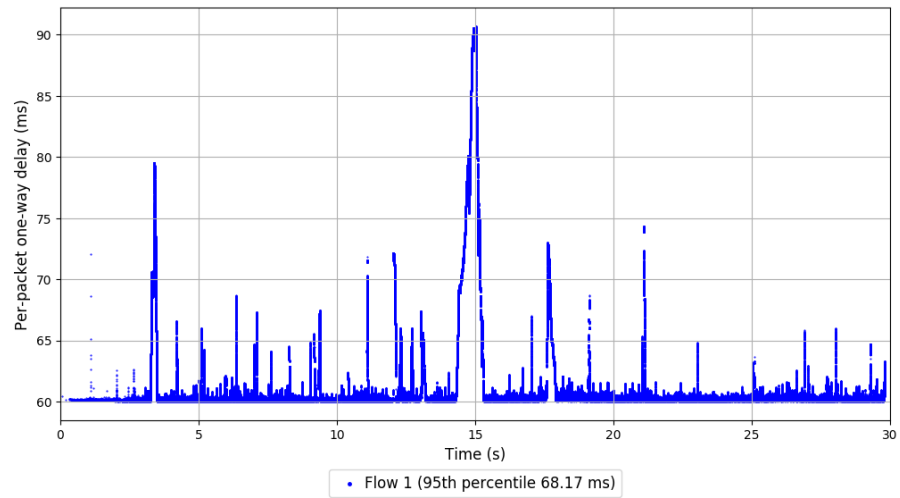
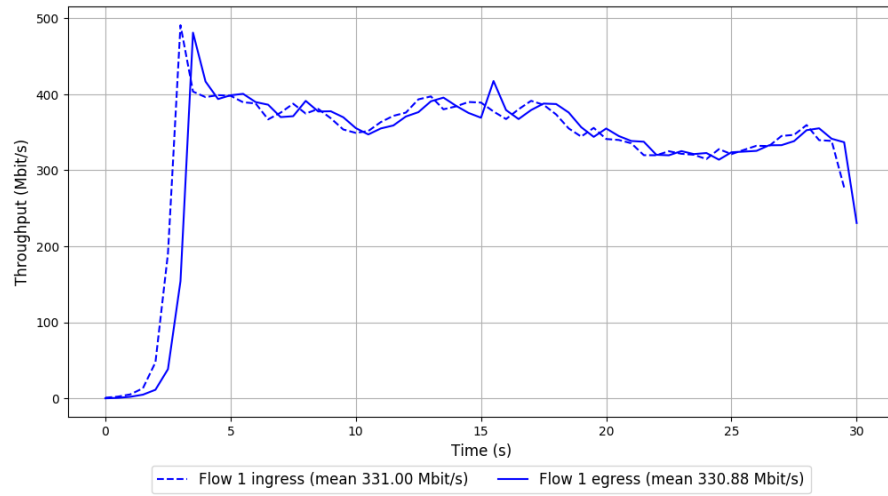


Run 5: Statistics of PCC-Vivace

Start at: 2019-08-27 06:25:59
End at: 2019-08-27 06:26:29
Local clock offset: -0.07 ms
Remote clock offset: -0.161 ms

Below is generated by plot.py at 2019-08-27 08:52:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 330.88 Mbit/s
95th percentile per-packet one-way delay: 68.174 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 330.88 Mbit/s
95th percentile per-packet one-way delay: 68.174 ms
Loss rate: 0.45%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

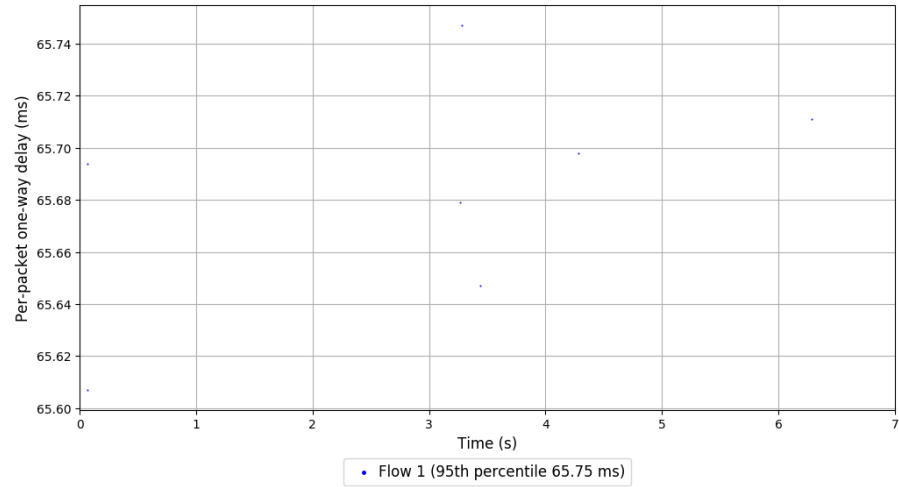
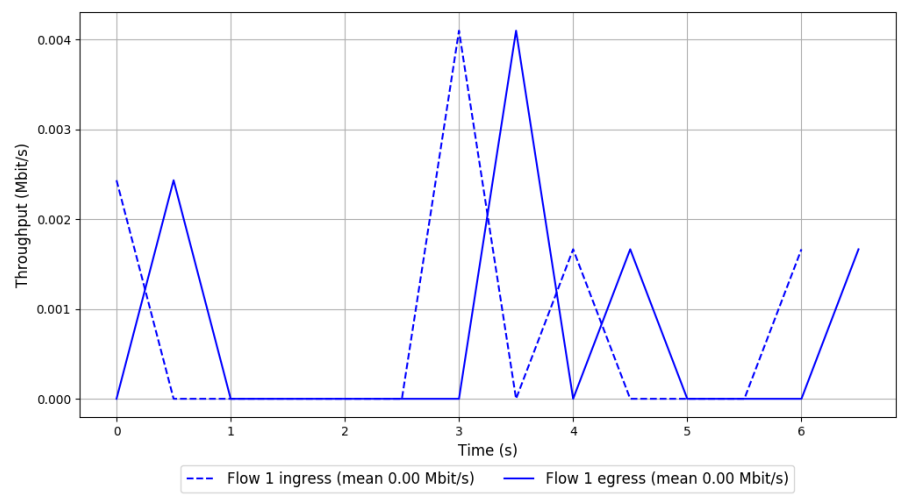
Start at: 2019-08-27 04:04:31

End at: 2019-08-27 04:05:01

Local clock offset: -0.055 ms

Remote clock offset: -0.146 ms

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-08-27 04:39:02

End at: 2019-08-27 04:39:32

Local clock offset: 0.419 ms

Remote clock offset: 0.175 ms

Below is generated by plot.py at 2019-08-27 08:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.408 ms

Loss rate: 0.00%

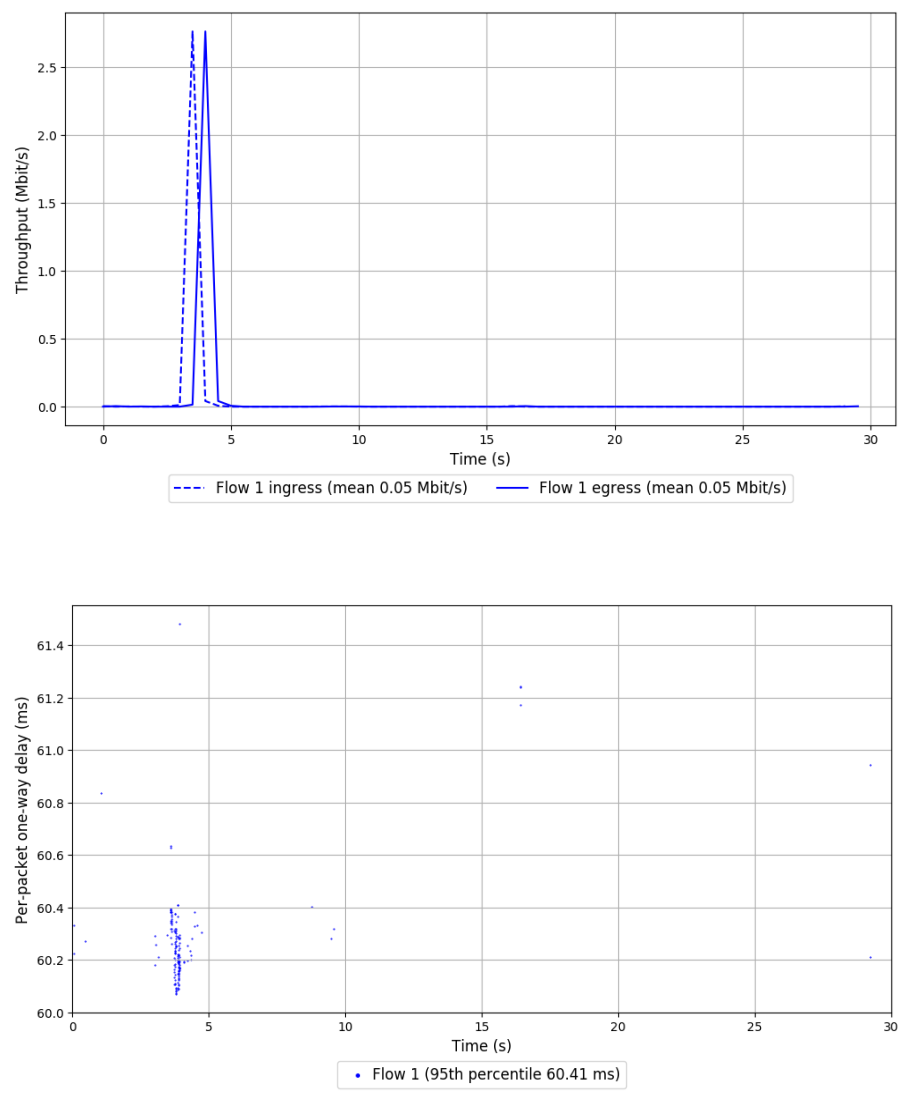
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.408 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-08-27 05:13:54

End at: 2019-08-27 05:14:24

Local clock offset: 0.111 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2019-08-27 08:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 65.469 ms

Loss rate: 0.00%

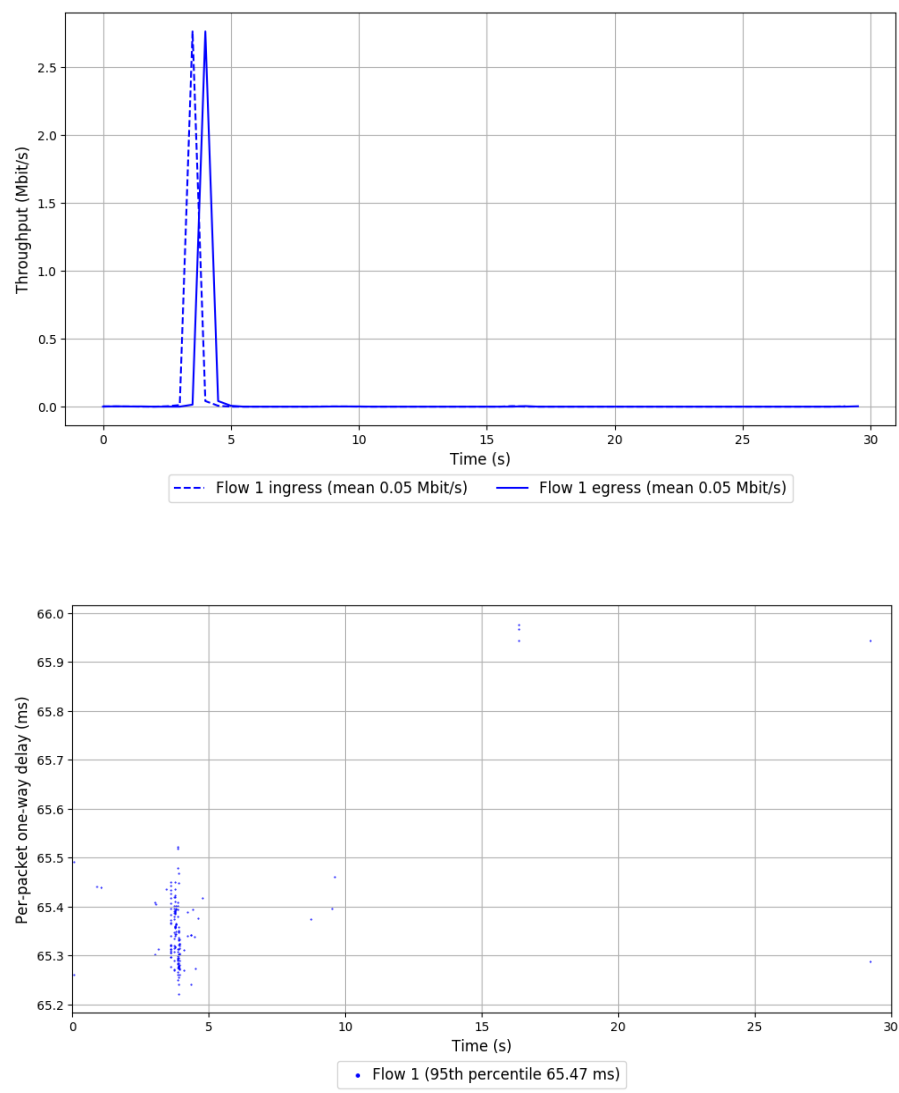
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 65.469 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-08-27 05:48:34

End at: 2019-08-27 05:49:04

Local clock offset: -0.075 ms

Remote clock offset: 0.498 ms

Below is generated by plot.py at 2019-08-27 08:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 59.806 ms

Loss rate: 0.00%

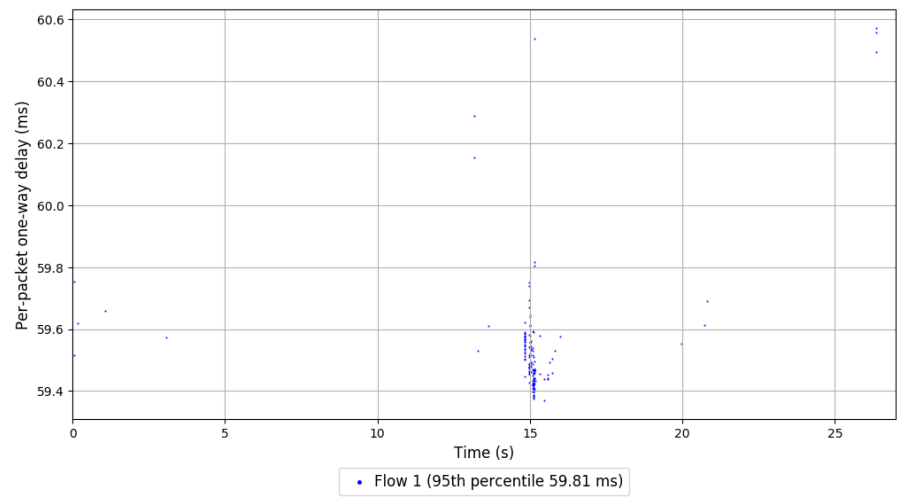
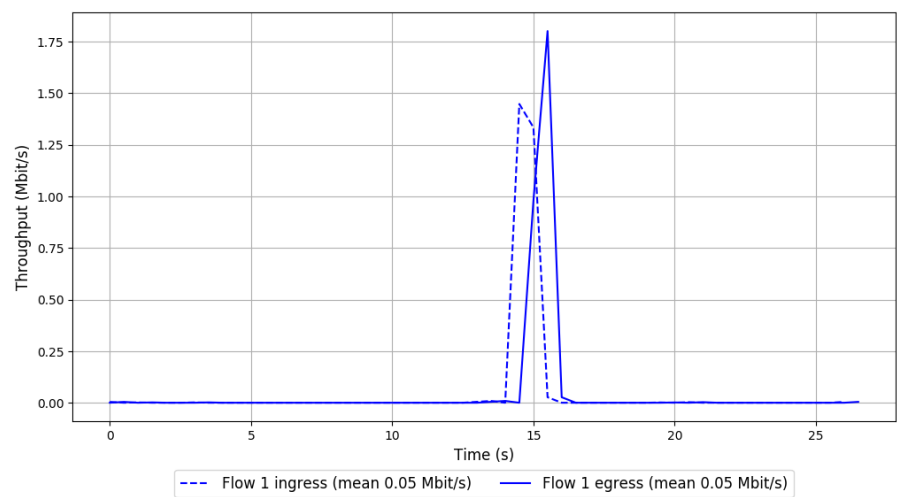
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 59.806 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-08-27 06:23:22
End at: 2019-08-27 06:23:52
Local clock offset: -0.039 ms
Remote clock offset: -0.339 ms

Below is generated by plot.py at 2019-08-27 08:52:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.759 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.759 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

