

Pantheon Report

Generated at 2019-07-17 17:25:20 (UTC).

Data path: AWS California 1 on *ens5 (local)* → Stanford cellular on *ppp0 (remote)*.

Repeated the test of 24 congestion control schemes 3 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

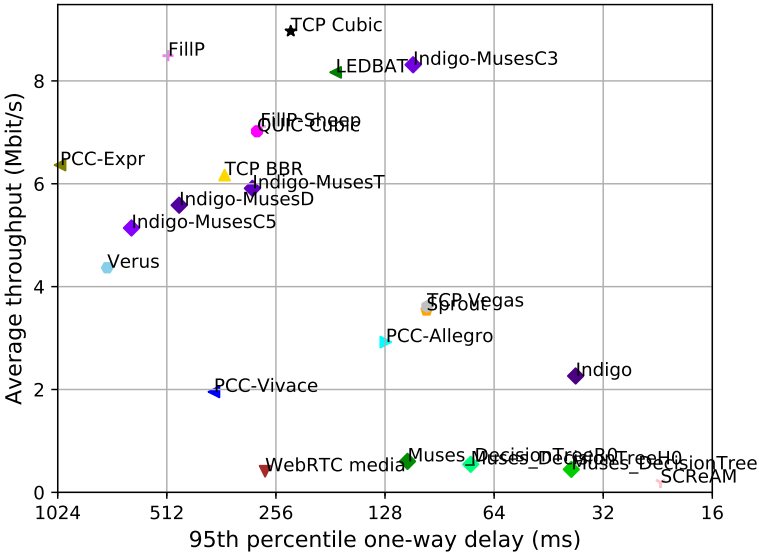
```
Linux 4.15.0-1043-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

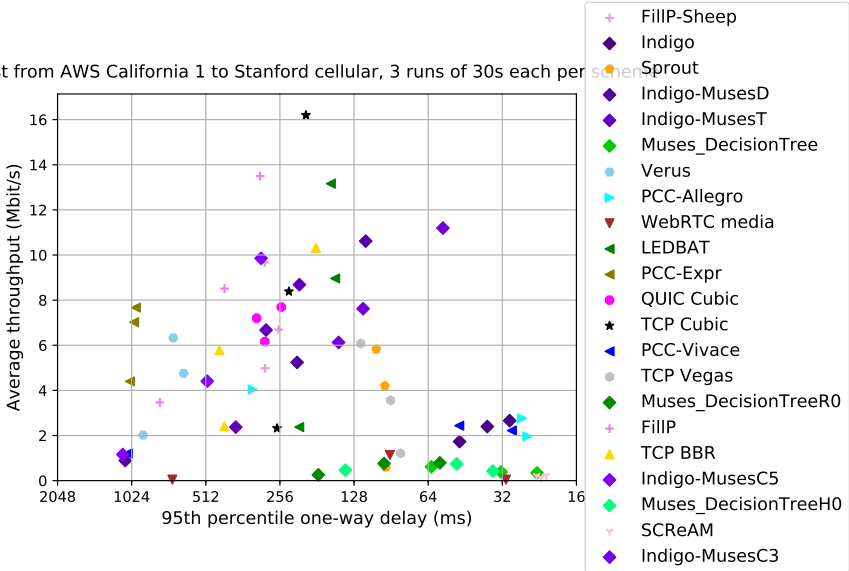
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 AWS California 1 to Stanford cellular, 3 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS California 1 to Stanford cellular, 3 runs of 30s each per scheme



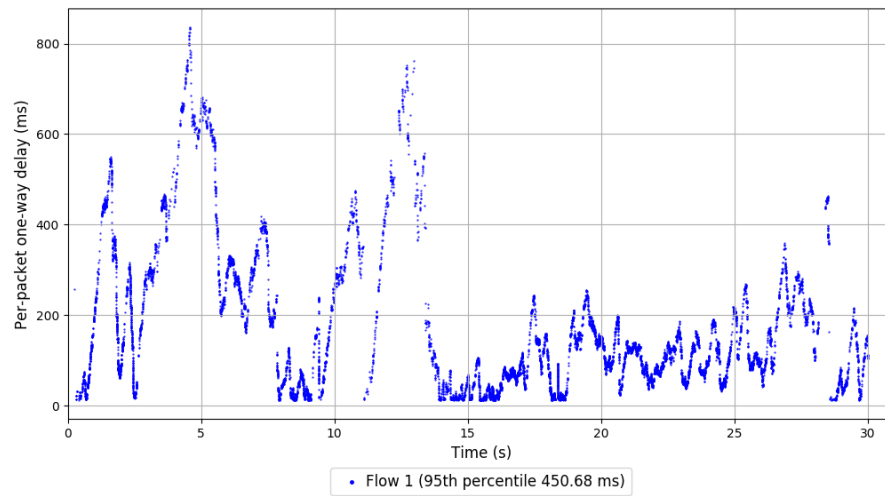
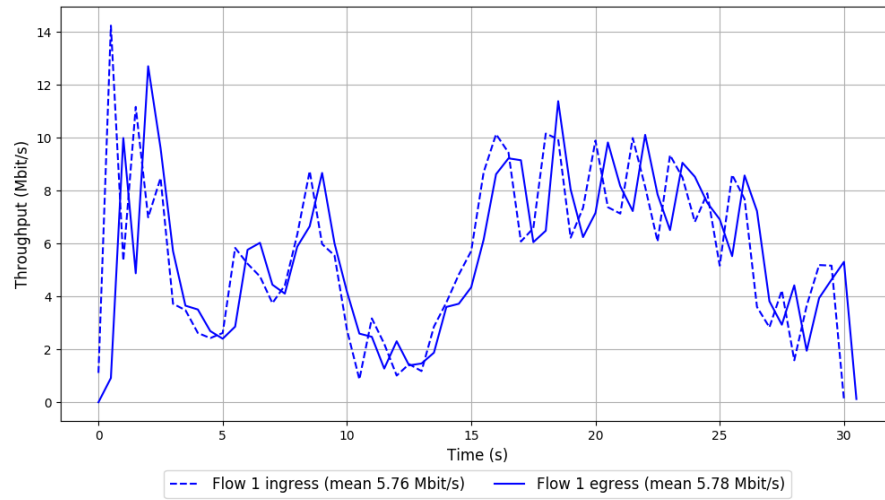
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	3	6.17	354.64	0.59
Copa	0	N/A	N/A	N/A
TCP Cubic	3	8.97	233.01	0.18
FillP	3	8.49	508.03	1.88
FillP-Sheep	3	7.11	282.62	0.30
Indigo	3	2.26	38.13	0.10
Indigo-MusesC3	3	8.31	107.08	0.20
Indigo-MusesC5	3	5.14	640.90	10.53
Indigo-MusesD	3	5.58	473.39	13.50
Indigo-MusesT	3	5.91	297.24	0.90
LEDBAT	3	8.16	175.19	0.36
Muses_DecisionTree	3	0.45	39.19	0.08
Muses_DecisionTreeH0	3	0.54	74.26	0.00
Muses_DecisionTreeR0	3	0.60	110.93	0.02
PCC-Allegro	3	2.92	127.33	0.07
PCC-Expr	3	6.36	1009.10	6.58
QUIC Cubic	3	7.02	288.65	0.56
SCReAM	3	0.19	22.24	0.00
Sprout	3	3.54	98.33	0.12
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	3	3.61	98.03	0.04
Verus	3	4.37	747.69	4.35
PCC-Vivace	3	1.95	379.59	9.05
WebRTC media	3	0.41	274.19	0.96

Run 1: Statistics of TCP BBR

Start at: 2019-07-17 16:03:22
End at: 2019-07-17 16:03:52
Local clock offset: -4.102 ms
Remote clock offset: -1.094 ms

Below is generated by plot.py at 2019-07-17 17:24:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 450.676 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 450.676 ms
Loss rate: 0.51%

Run 1: Report of TCP BBR — Data Link

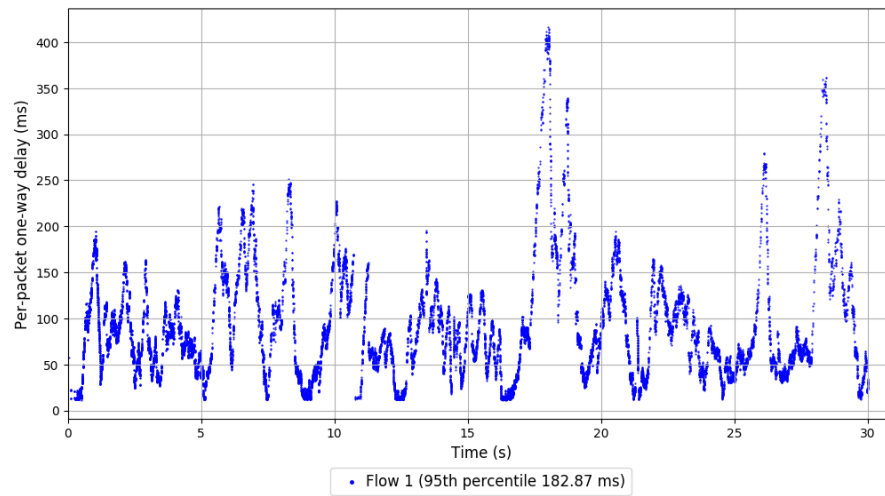
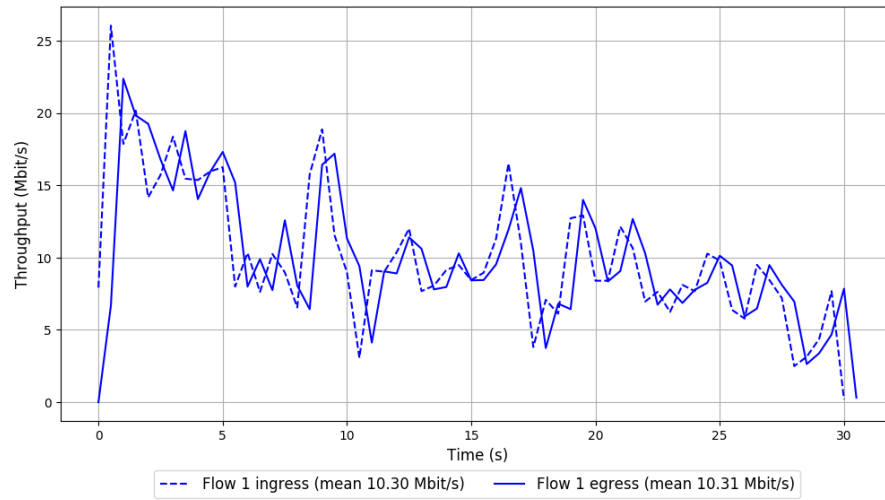


Run 2: Statistics of TCP BBR

Start at: 2019-07-17 16:33:02
End at: 2019-07-17 16:33:32
Local clock offset: -0.218 ms
Remote clock offset: -0.353 ms

Below is generated by plot.py at 2019-07-17 17:24:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 182.872 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 182.872 ms
Loss rate: 0.10%

Run 2: Report of TCP BBR — Data Link

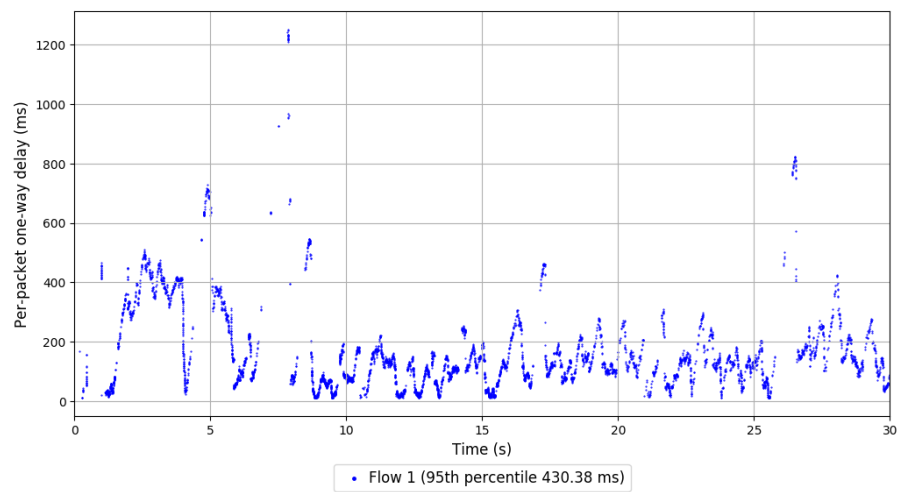
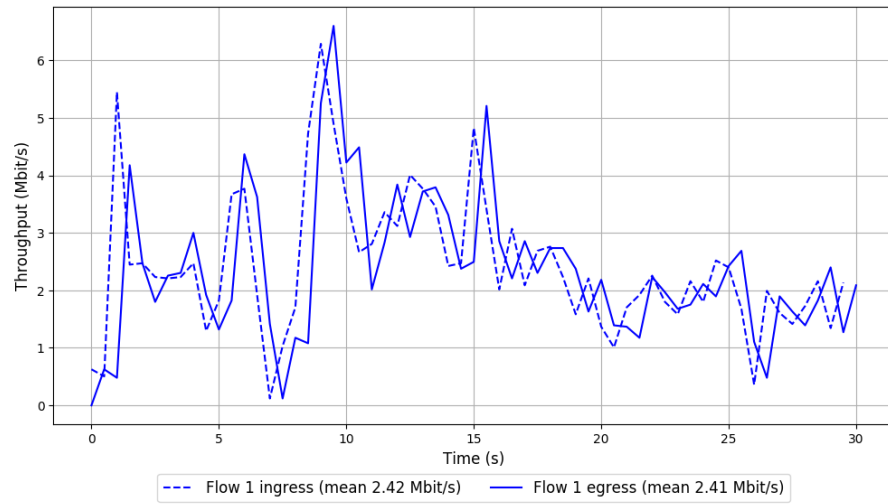


Run 3: Statistics of TCP BBR

Start at: 2019-07-17 17:02:36
End at: 2019-07-17 17:03:06
Local clock offset: -3.524 ms
Remote clock offset: -0.275 ms

Below is generated by plot.py at 2019-07-17 17:24:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 430.377 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 430.377 ms
Loss rate: 1.16%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

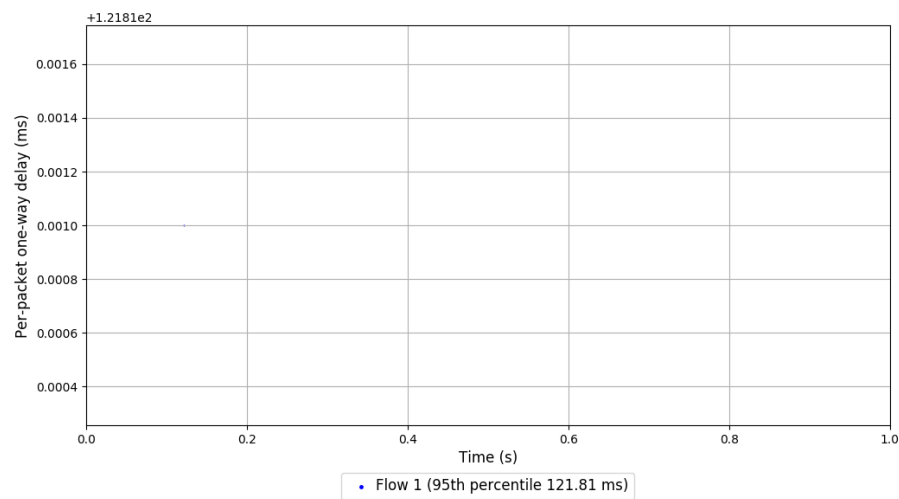
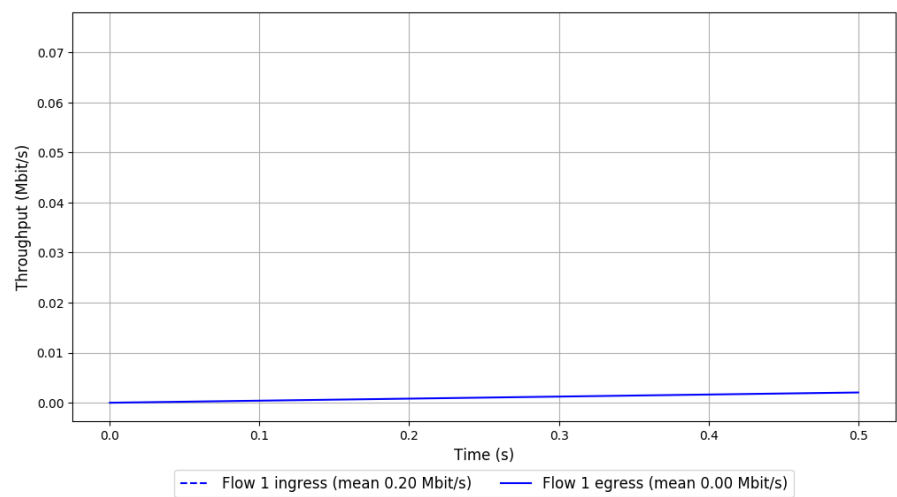
Start at: 2019-07-17 16:08:18

End at: 2019-07-17 16:08:48

Local clock offset: -6.16 ms

Remote clock offset: -1.22 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

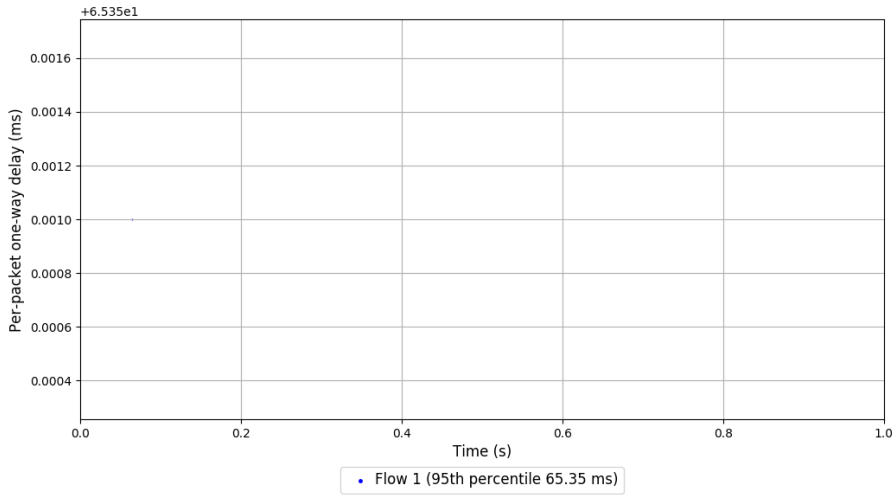
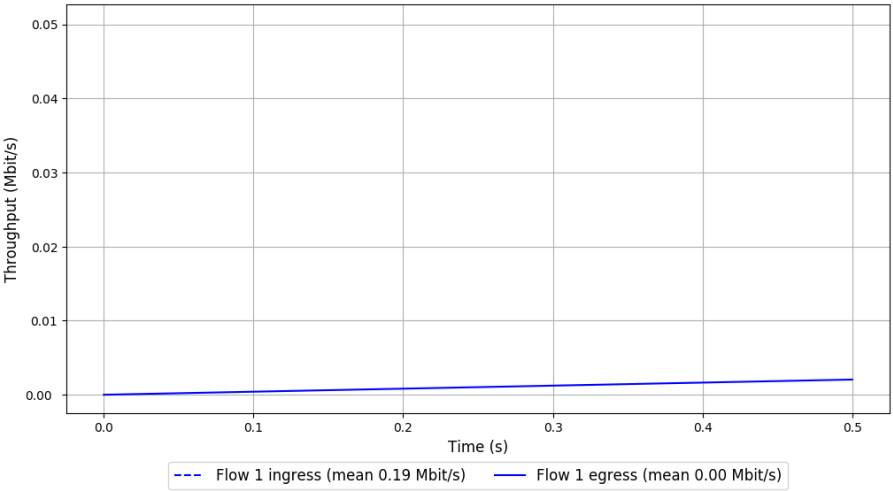
Start at: 2019-07-17 16:37:58

End at: 2019-07-17 16:38:28

Local clock offset: -0.908 ms

Remote clock offset: -0.272 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

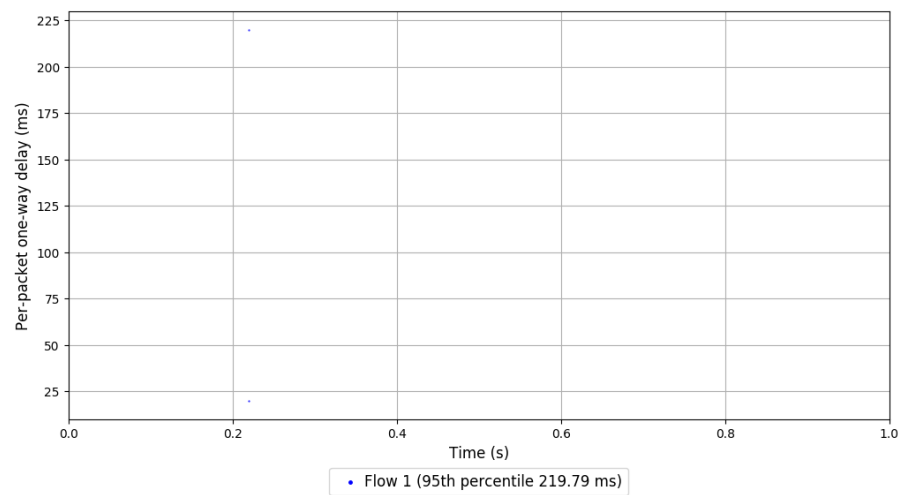
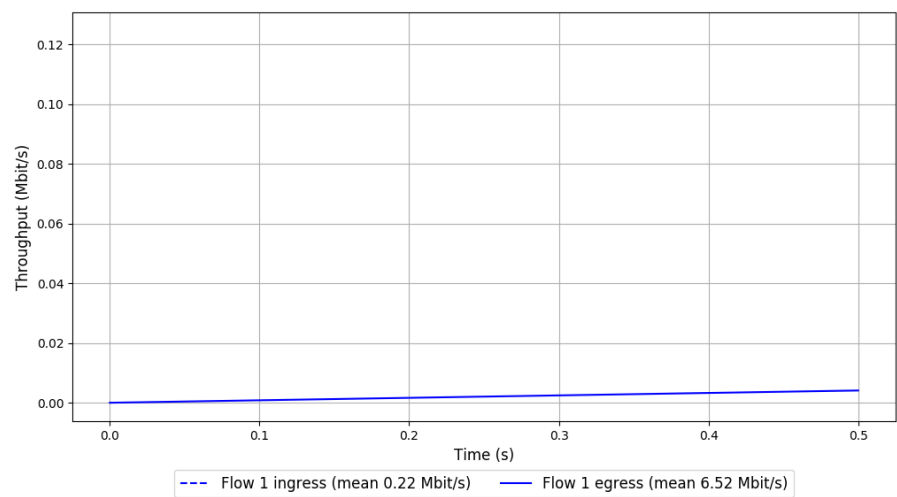
Start at: 2019-07-17 17:07:31

End at: 2019-07-17 17:08:01

Local clock offset: -4.029 ms

Remote clock offset: -0.336 ms

Run 3: Report of Copa — Data Link

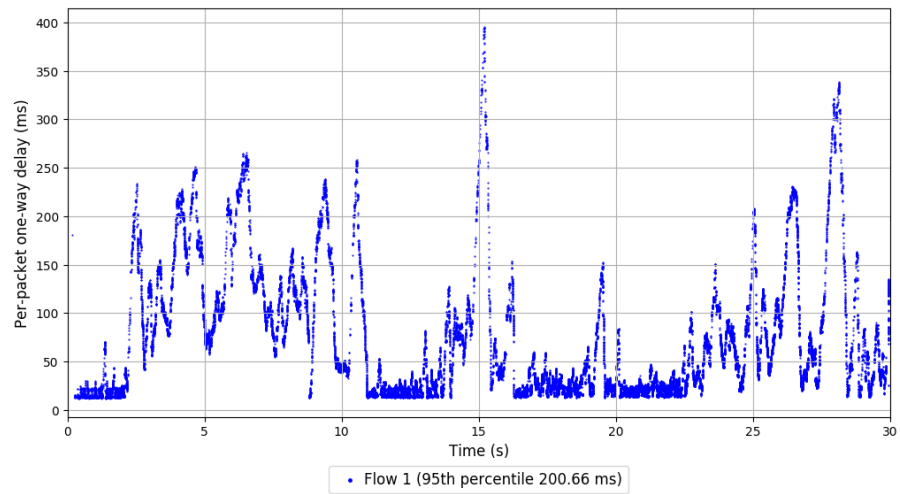
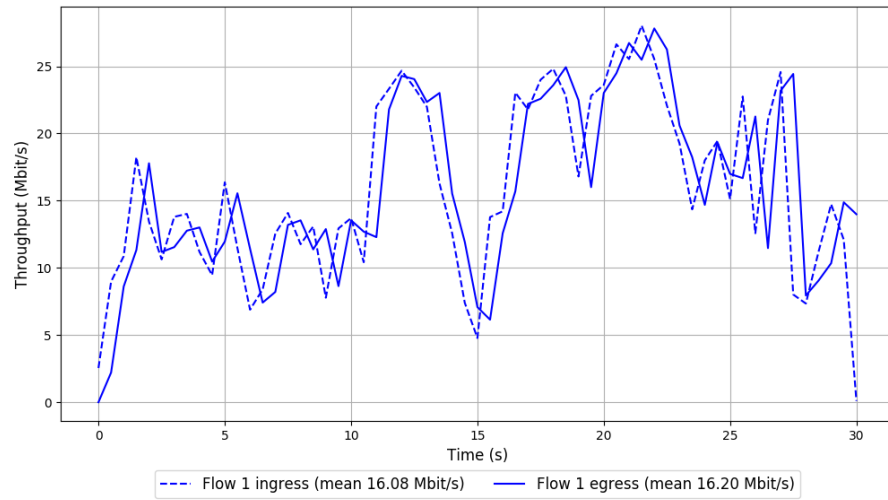


Run 1: Statistics of TCP Cubic

Start at: 2019-07-17 16:12:00
End at: 2019-07-17 16:12:30
Local clock offset: -7.609 ms
Remote clock offset: -0.881 ms

Below is generated by plot.py at 2019-07-17 17:24:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 16.20 Mbit/s
95th percentile per-packet one-way delay: 200.657 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 16.20 Mbit/s
95th percentile per-packet one-way delay: 200.657 ms
Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link

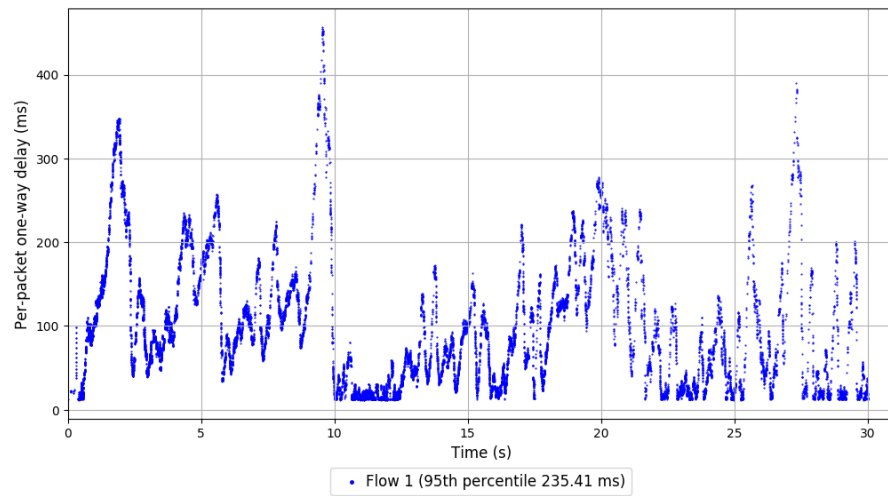
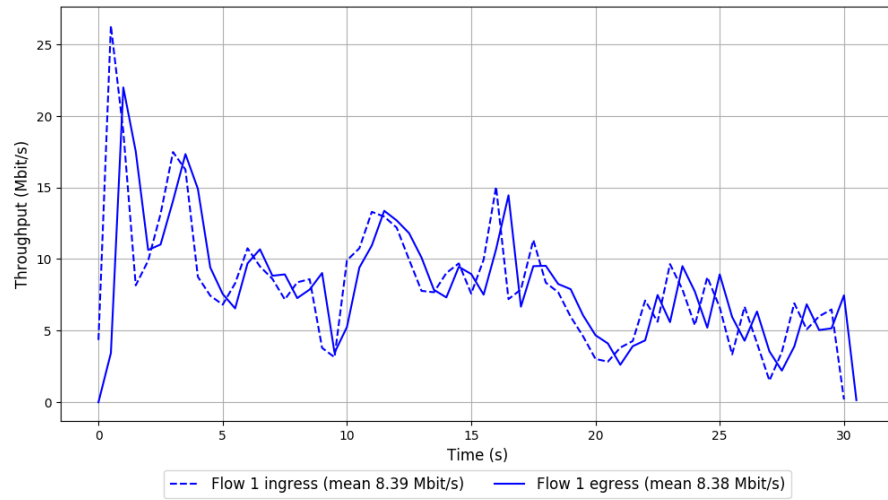


Run 2: Statistics of TCP Cubic

Start at: 2019-07-17 16:41:40
End at: 2019-07-17 16:42:10
Local clock offset: -1.4 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2019-07-17 17:24:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 235.407 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 235.407 ms
Loss rate: 0.10%

Run 2: Report of TCP Cubic — Data Link

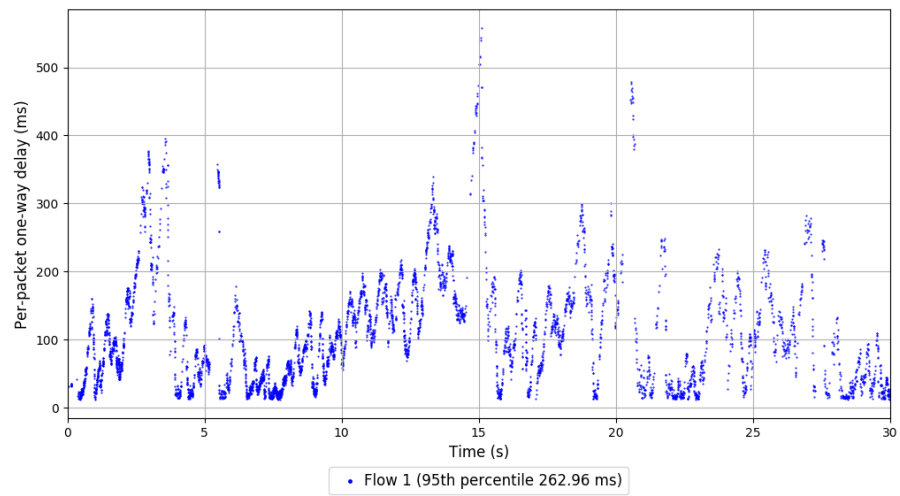
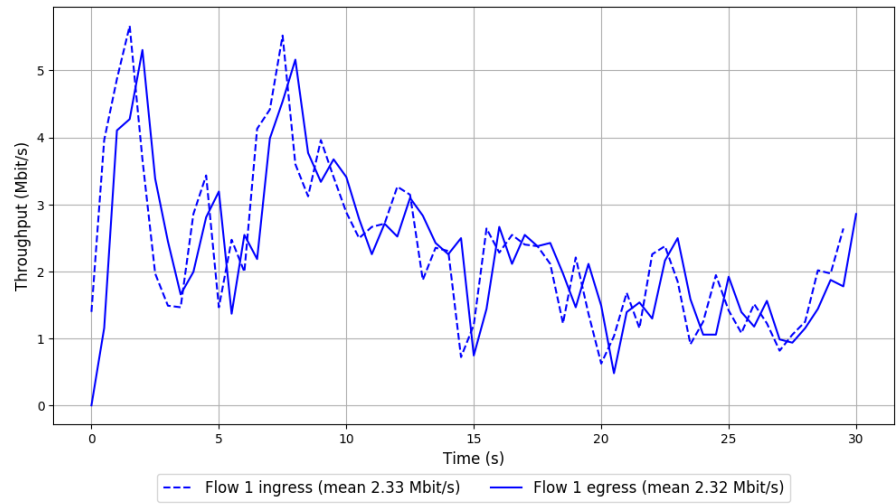


Run 3: Statistics of TCP Cubic

Start at: 2019-07-17 17:11:13
End at: 2019-07-17 17:11:43
Local clock offset: -4.396 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2019-07-17 17:24:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 262.958 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 262.958 ms
Loss rate: 0.40%

Run 3: Report of TCP Cubic — Data Link

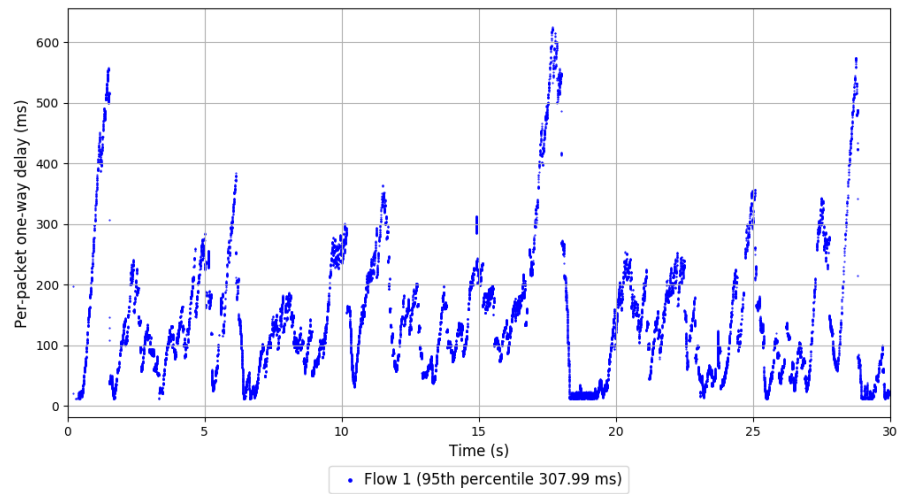
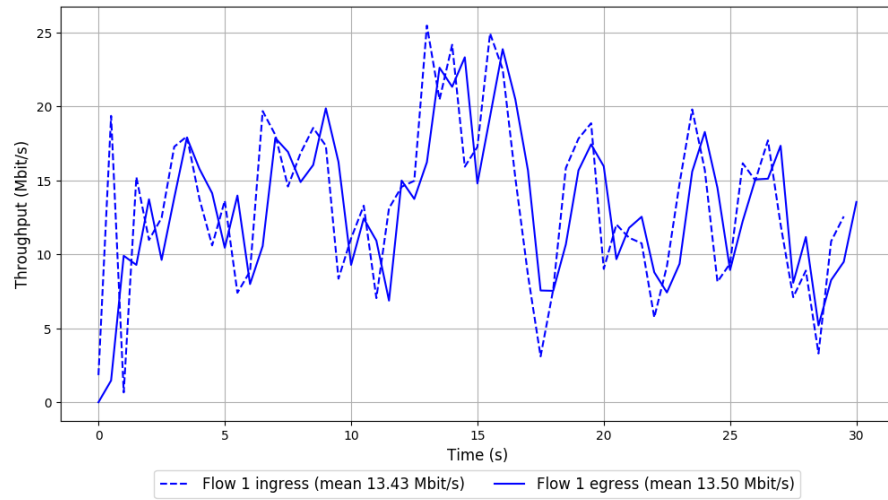


Run 1: Statistics of FillP

Start at: 2019-07-17 16:15:42
End at: 2019-07-17 16:16:12
Local clock offset: -2.043 ms
Remote clock offset: -0.712 ms

Below is generated by plot.py at 2019-07-17 17:24:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.50 Mbit/s
95th percentile per-packet one-way delay: 307.994 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 13.50 Mbit/s
95th percentile per-packet one-way delay: 307.994 ms
Loss rate: 0.13%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-07-17 16:45:22

End at: 2019-07-17 16:45:52

Local clock offset: -1.809 ms

Remote clock offset: -0.4 ms

Below is generated by plot.py at 2019-07-17 17:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 429.580 ms

Loss rate: 0.55%

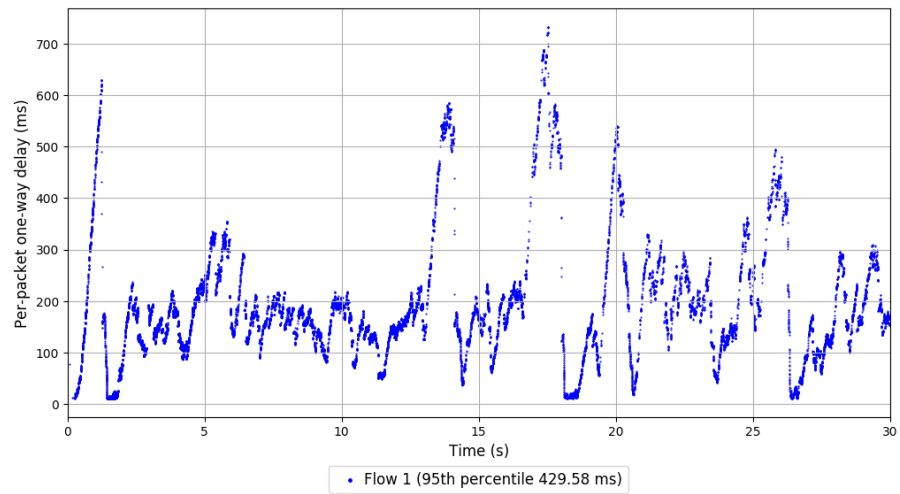
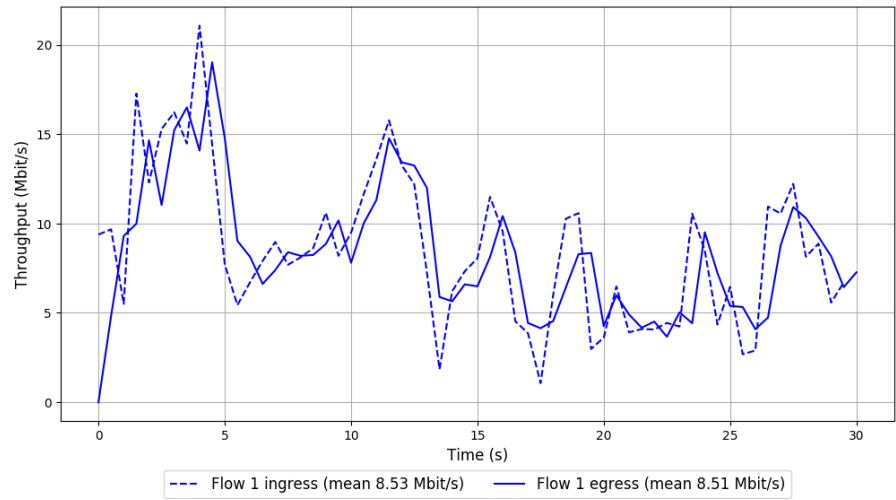
-- Flow 1:

Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 429.580 ms

Loss rate: 0.55%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-07-17 17:14:54

End at: 2019-07-17 17:15:24

Local clock offset: -4.793 ms

Remote clock offset: -0.31 ms

Below is generated by plot.py at 2019-07-17 17:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 786.530 ms

Loss rate: 4.96%

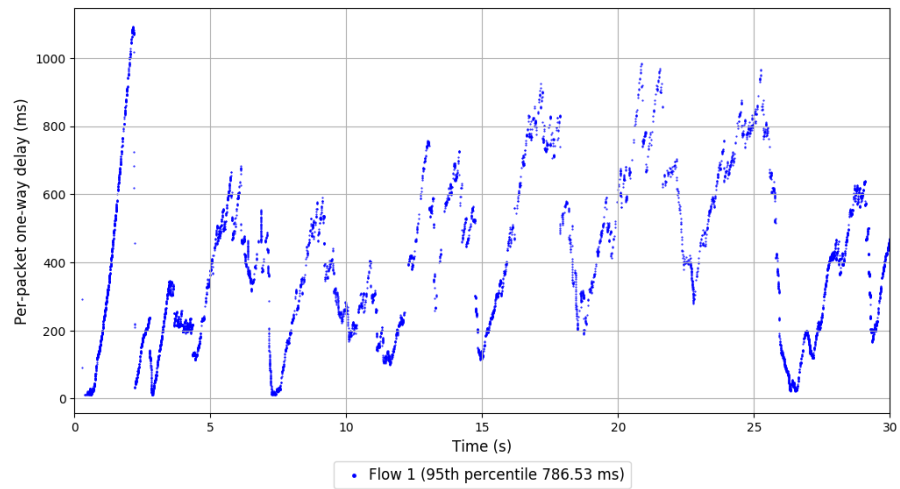
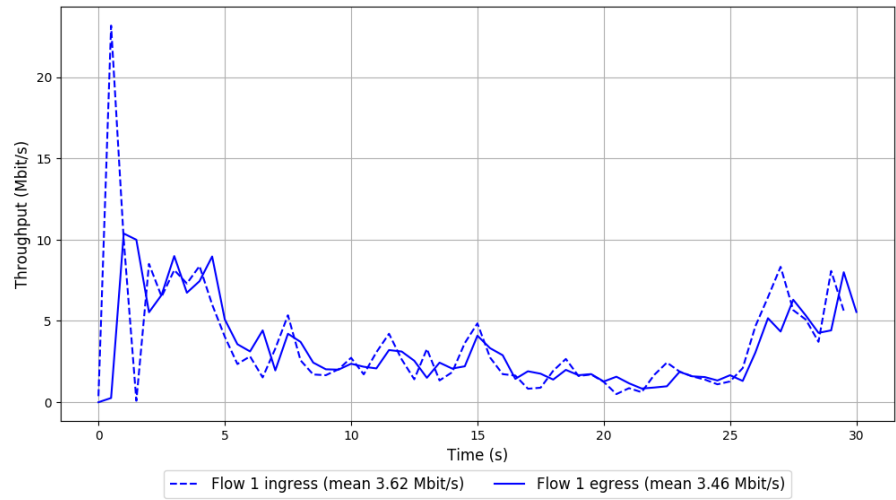
-- Flow 1:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 786.530 ms

Loss rate: 4.96%

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-07-17 15:57:12

End at: 2019-07-17 15:57:42

Local clock offset: 0.785 ms

Remote clock offset: -0.917 ms

Below is generated by plot.py at 2019-07-17 17:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 259.232 ms

Loss rate: 0.39%

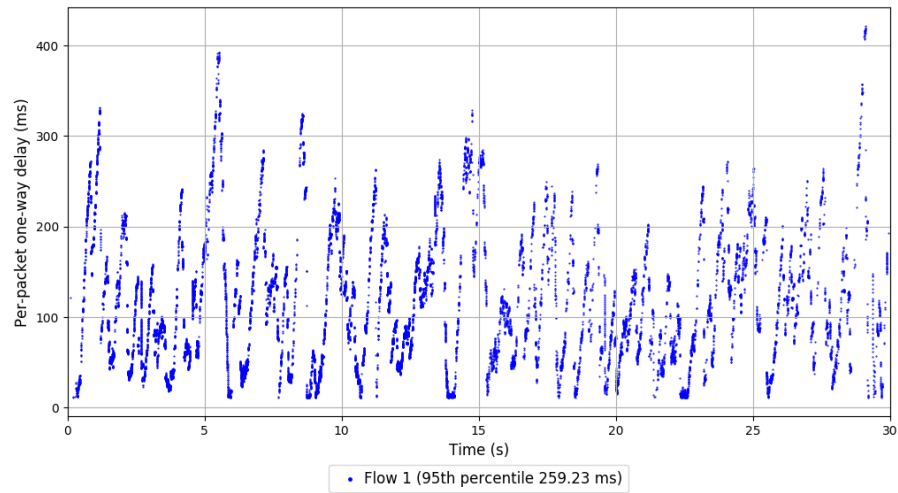
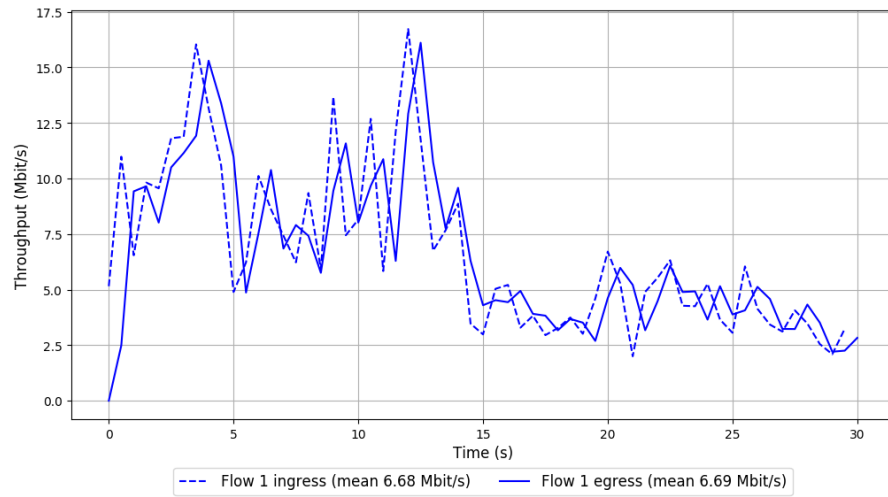
-- Flow 1:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 259.232 ms

Loss rate: 0.39%

Run 1: Report of FillP-Sheep — Data Link

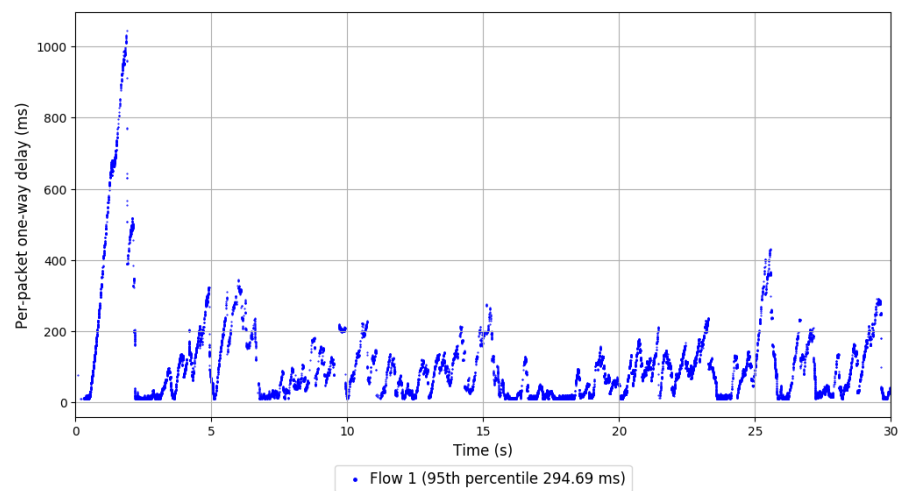
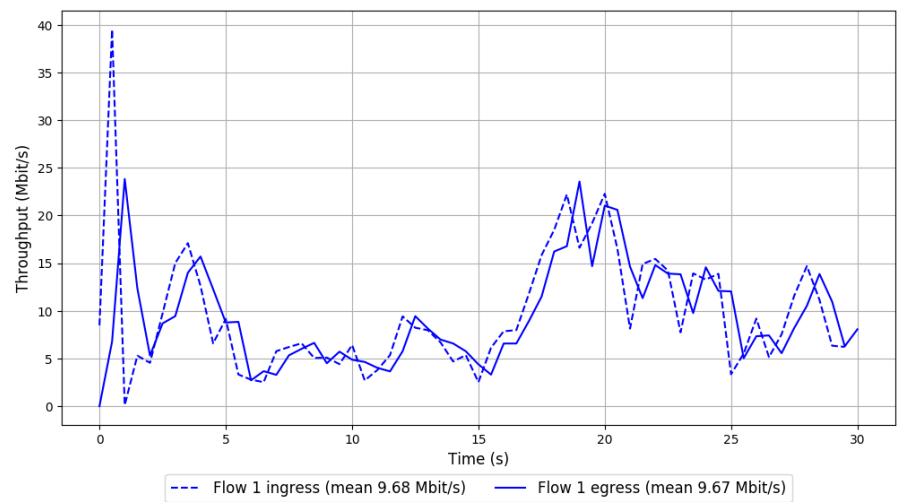


Run 2: Statistics of FillP-Sheep

Start at: 2019-07-17 16:26:52
End at: 2019-07-17 16:27:22
Local clock offset: 0.88 ms
Remote clock offset: -0.383 ms

Below is generated by plot.py at 2019-07-17 17:24:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 294.686 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 294.686 ms
Loss rate: 0.37%

Run 2: Report of FillP-Sheep — Data Link

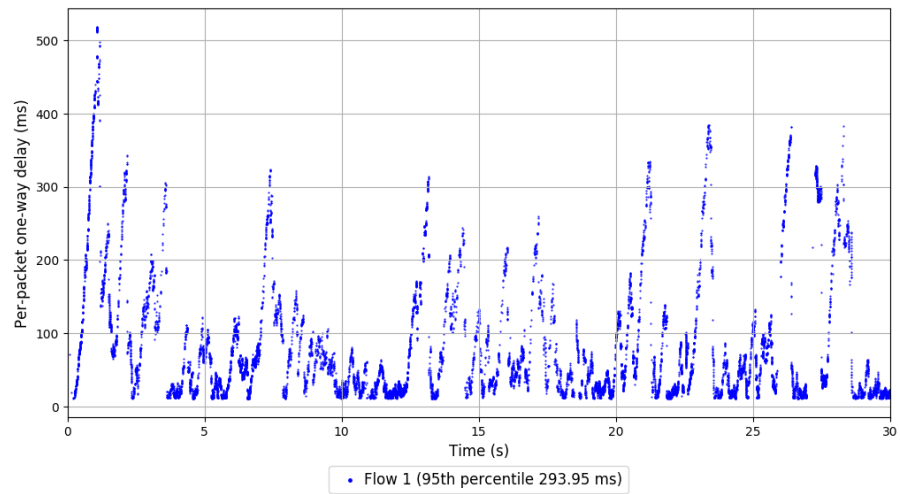
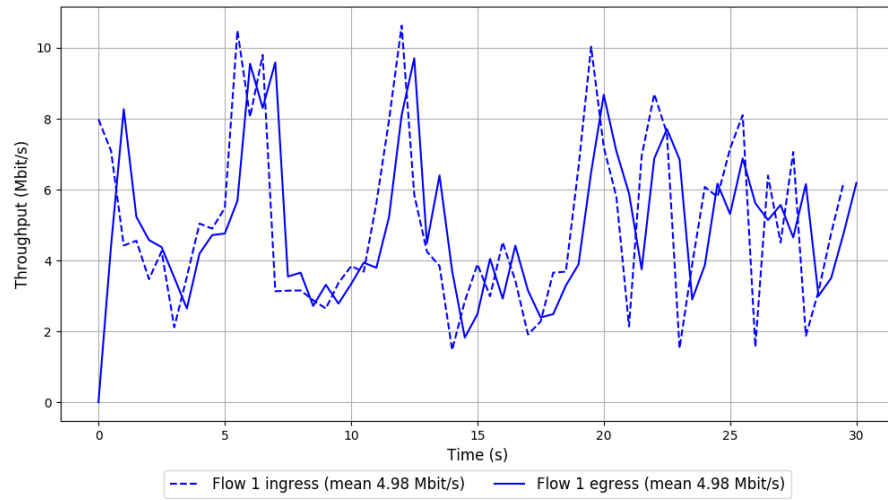


Run 3: Statistics of FillP-Sheep

Start at: 2019-07-17 16:56:27
End at: 2019-07-17 16:56:57
Local clock offset: -2.994 ms
Remote clock offset: -0.346 ms

Below is generated by plot.py at 2019-07-17 17:24:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.98 Mbit/s
95th percentile per-packet one-way delay: 293.949 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 4.98 Mbit/s
95th percentile per-packet one-way delay: 293.949 ms
Loss rate: 0.14%

Run 3: Report of FillP-Sheep — Data Link

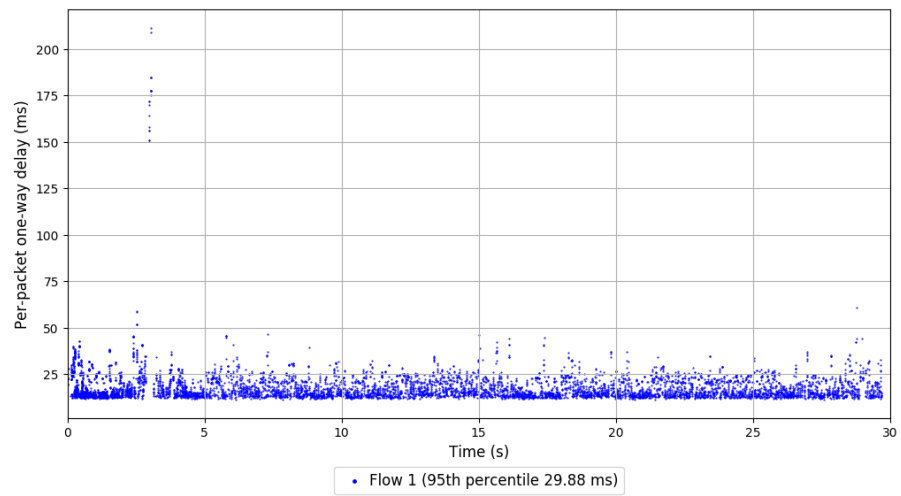
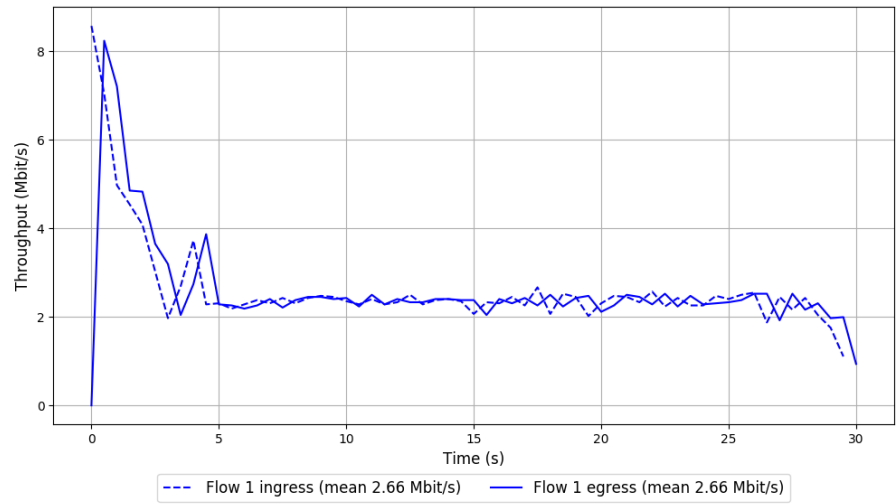


Run 1: Statistics of Indigo

Start at: 2019-07-17 16:21:51
End at: 2019-07-17 16:22:21
Local clock offset: 0.948 ms
Remote clock offset: -0.501 ms

Below is generated by plot.py at 2019-07-17 17:24:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 29.877 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 29.877 ms
Loss rate: 0.11%

Run 1: Report of Indigo — Data Link

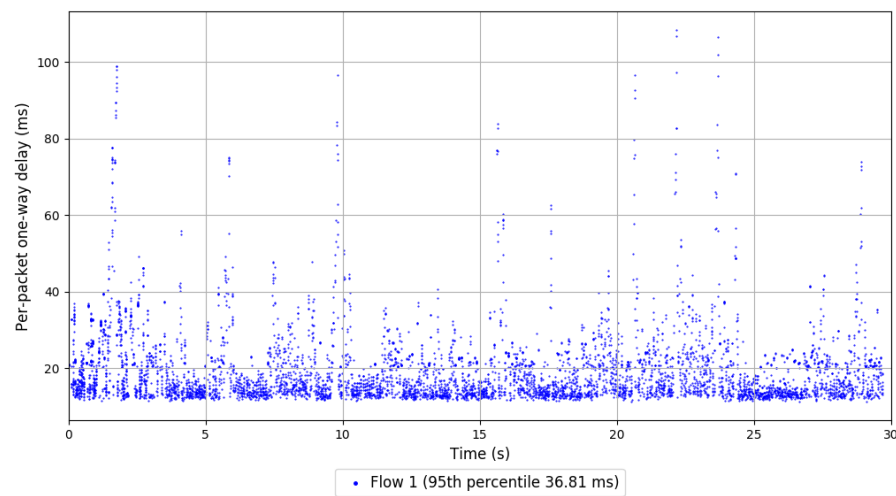
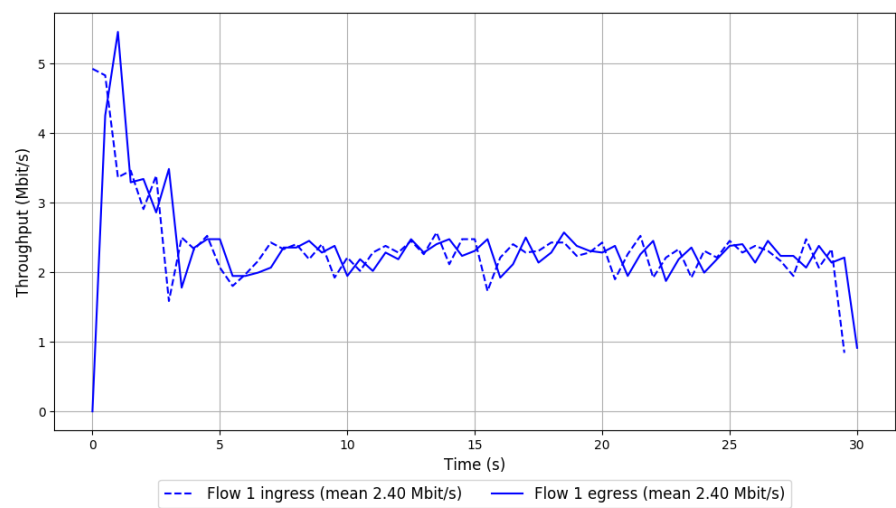


Run 2: Statistics of Indigo

Start at: 2019-07-17 16:51:31
End at: 2019-07-17 16:52:01
Local clock offset: -2.481 ms
Remote clock offset: -0.286 ms

Below is generated by plot.py at 2019-07-17 17:24:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 36.814 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 36.814 ms
Loss rate: 0.05%

Run 2: Report of Indigo — Data Link

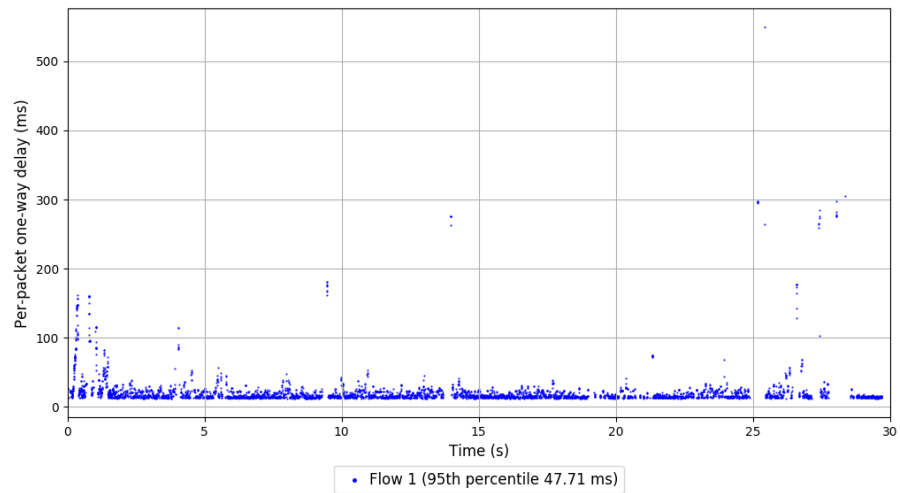
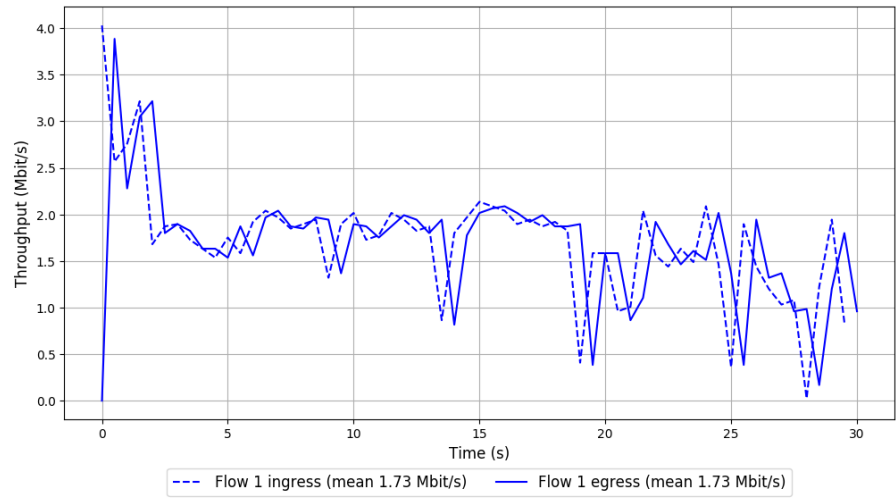


Run 3: Statistics of Indigo

Start at: 2019-07-17 17:21:04
End at: 2019-07-17 17:21:34
Local clock offset: -5.427 ms
Remote clock offset: -1.725 ms

Below is generated by plot.py at 2019-07-17 17:24:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 47.707 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 47.707 ms
Loss rate: 0.14%

Run 3: Report of Indigo — Data Link

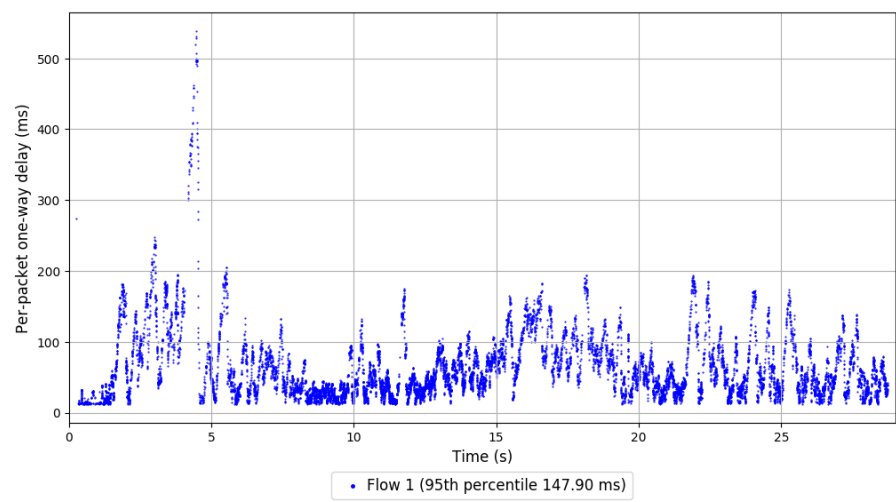
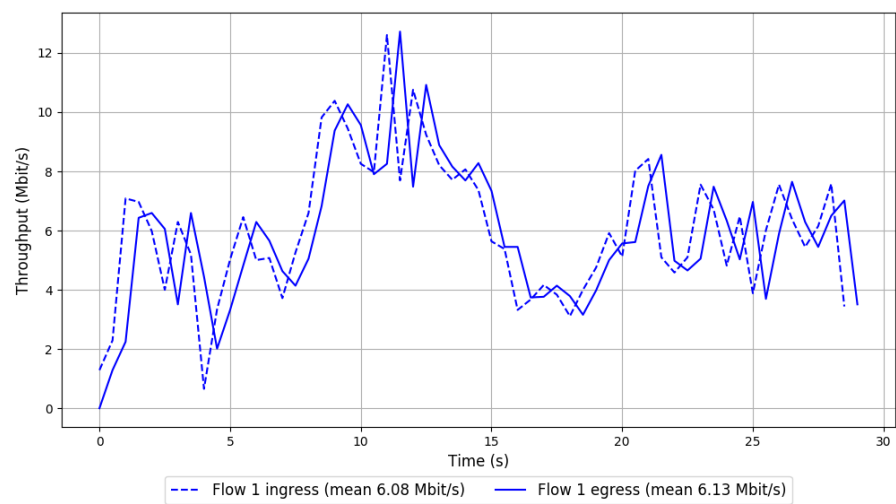


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-17 16:18:10
End at: 2019-07-17 16:18:40
Local clock offset: -0.305 ms
Remote clock offset: -0.567 ms

Below is generated by plot.py at 2019-07-17 17:24:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 147.901 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 147.901 ms
Loss rate: 0.26%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-17 16:47:49

End at: 2019-07-17 16:48:19

Local clock offset: -2.087 ms

Remote clock offset: -0.33 ms

Below is generated by plot.py at 2019-07-17 17:24:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.19 Mbit/s

95th percentile per-packet one-way delay: 55.756 ms

Loss rate: 0.08%

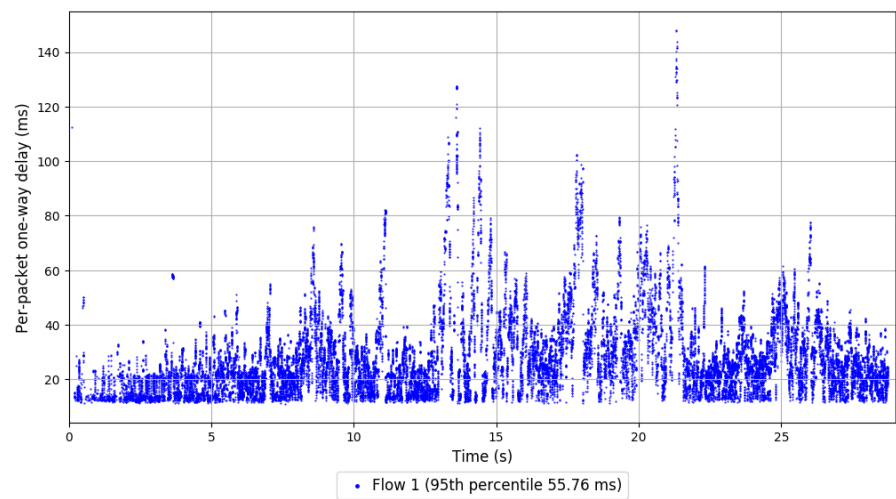
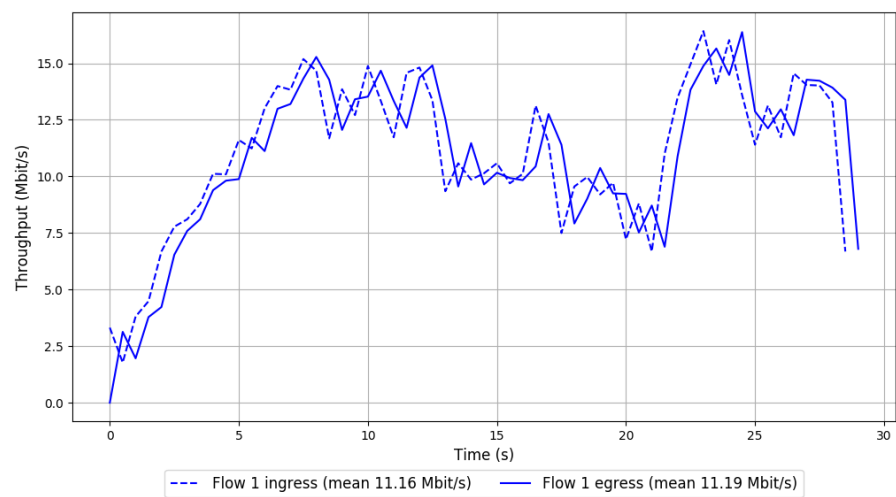
-- Flow 1:

Average throughput: 11.19 Mbit/s

95th percentile per-packet one-way delay: 55.756 ms

Loss rate: 0.08%

Run 2: Report of Indigo-MusesC3 — Data Link

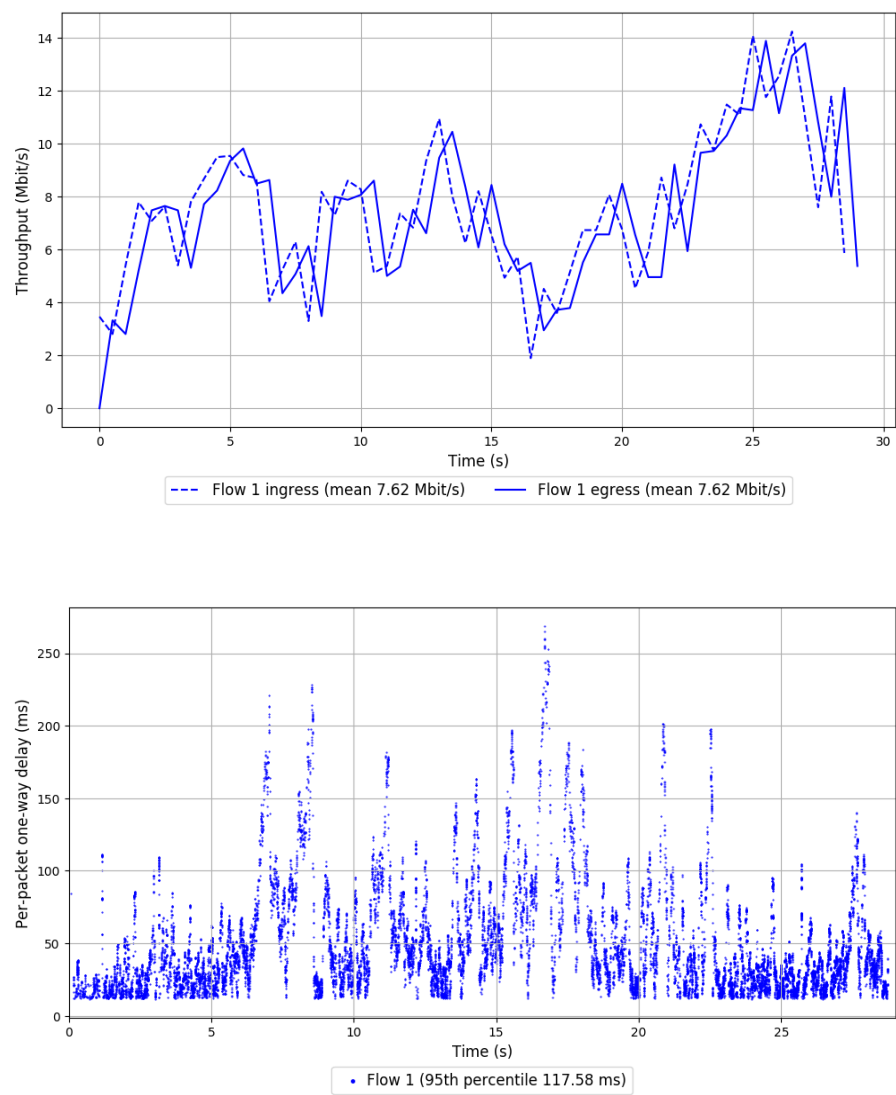


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-17 17:17:22
End at: 2019-07-17 17:17:52
Local clock offset: -5.036 ms
Remote clock offset: -0.697 ms

Below is generated by plot.py at 2019-07-17 17:24:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 117.583 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 117.583 ms
Loss rate: 0.25%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-17 16:02:08

End at: 2019-07-17 16:02:38

Local clock offset: -3.432 ms

Remote clock offset: -1.113 ms

Below is generated by plot.py at 2019-07-17 17:24:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 505.196 ms

Loss rate: 0.69%

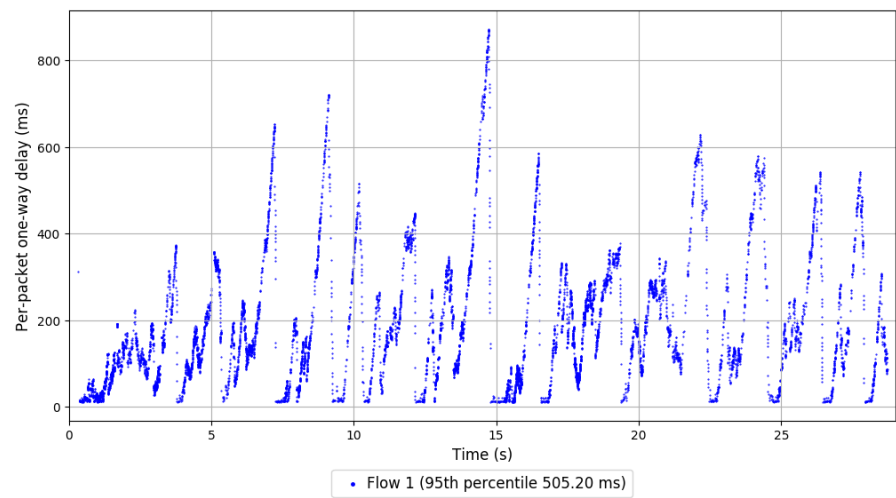
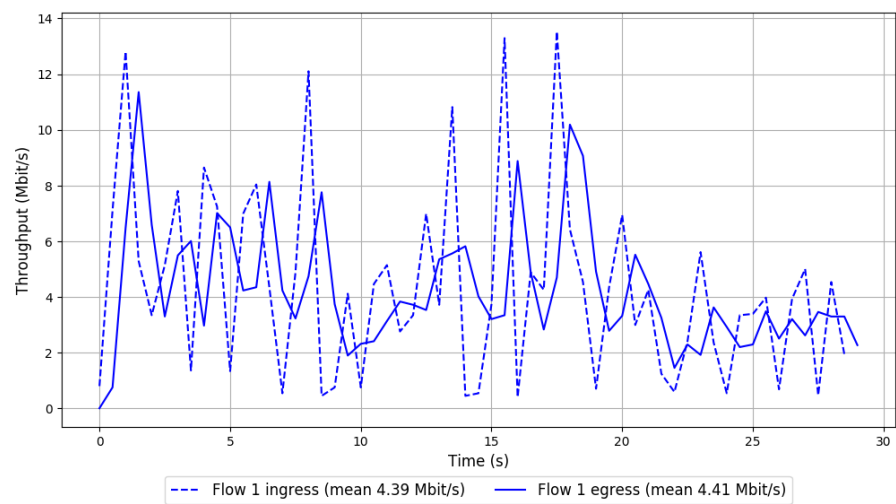
-- Flow 1:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 505.196 ms

Loss rate: 0.69%

Run 1: Report of Indigo-MusesC5 — Data Link

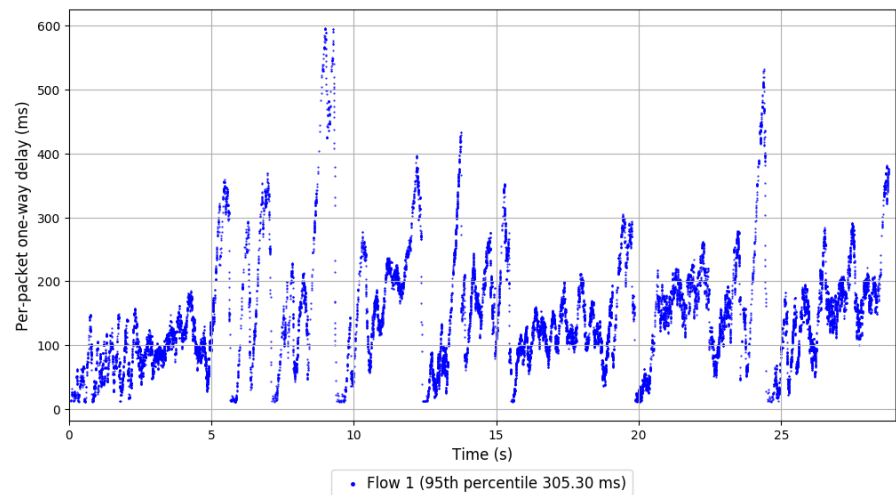
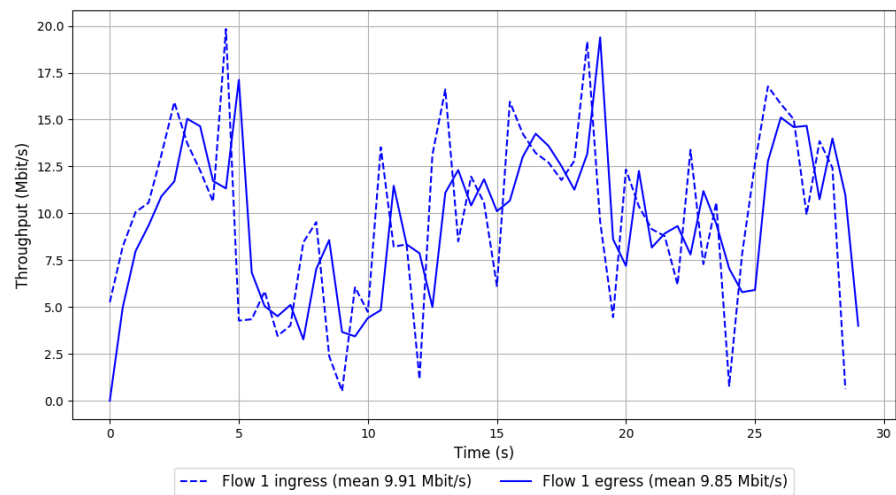


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-17 16:31:48
End at: 2019-07-17 16:32:18
Local clock offset: -0.023 ms
Remote clock offset: -0.329 ms

Below is generated by plot.py at 2019-07-17 17:24:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 305.297 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 305.297 ms
Loss rate: 0.47%

Run 2: Report of Indigo-MusesC5 — Data Link

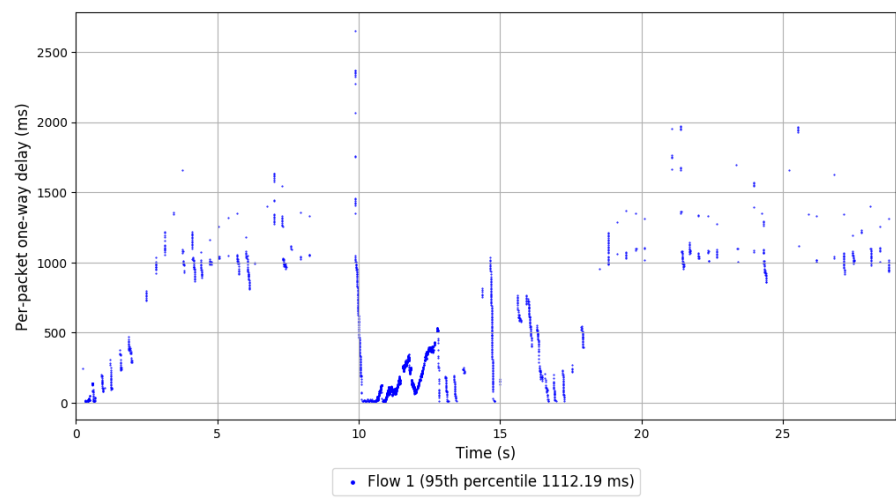
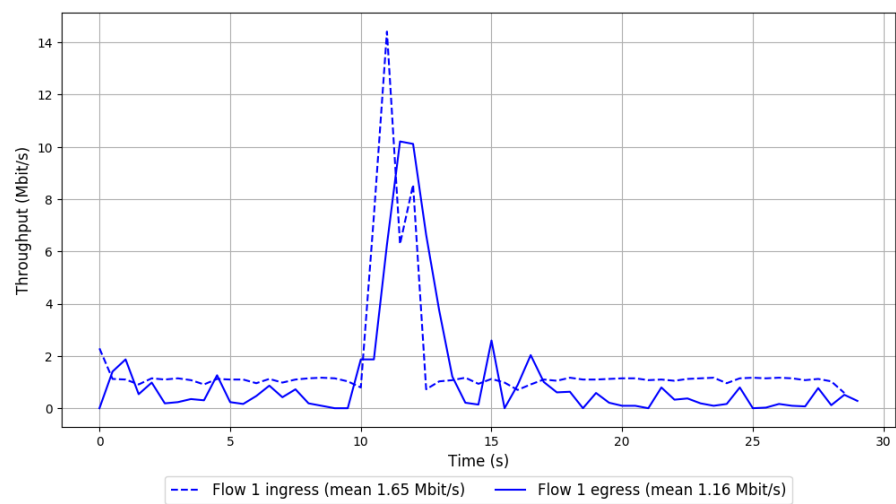


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-17 17:01:22
End at: 2019-07-17 17:01:52
Local clock offset: -3.369 ms
Remote clock offset: -0.292 ms

Below is generated by plot.py at 2019-07-17 17:24:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 1112.194 ms
Loss rate: 30.42%
-- Flow 1:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 1112.194 ms
Loss rate: 30.42%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-07-17 15:59:40

End at: 2019-07-17 16:00:10

Local clock offset: -0.517 ms

Remote clock offset: -1.059 ms

Below is generated by plot.py at 2019-07-17 17:24:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.24 Mbit/s

95th percentile per-packet one-way delay: 218.011 ms

Loss rate: 0.48%

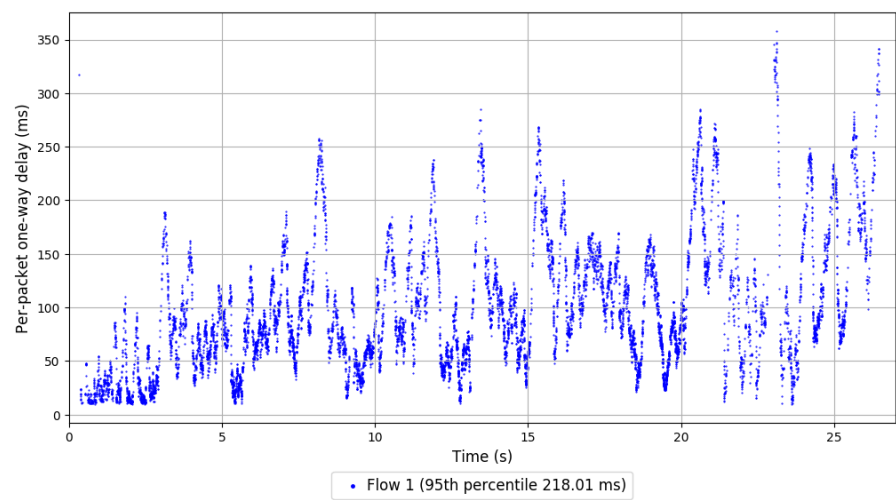
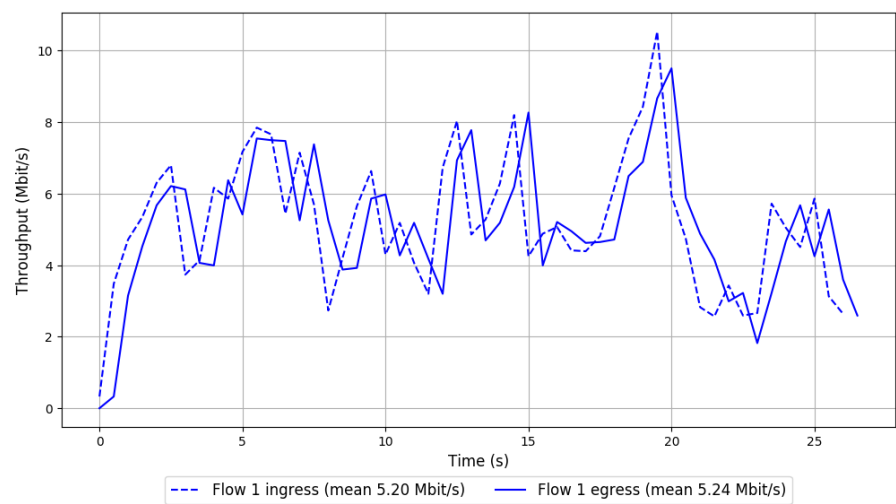
-- Flow 1:

Average throughput: 5.24 Mbit/s

95th percentile per-packet one-way delay: 218.011 ms

Loss rate: 0.48%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-17 16:29:20

End at: 2019-07-17 16:29:50

Local clock offset: 0.37 ms

Remote clock offset: -0.325 ms

Below is generated by plot.py at 2019-07-17 17:24:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.62 Mbit/s

95th percentile per-packet one-way delay: 114.817 ms

Loss rate: 0.15%

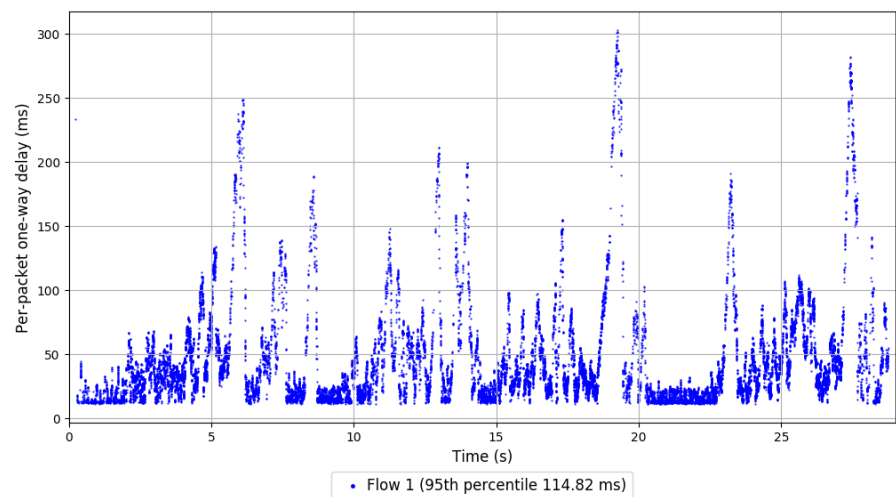
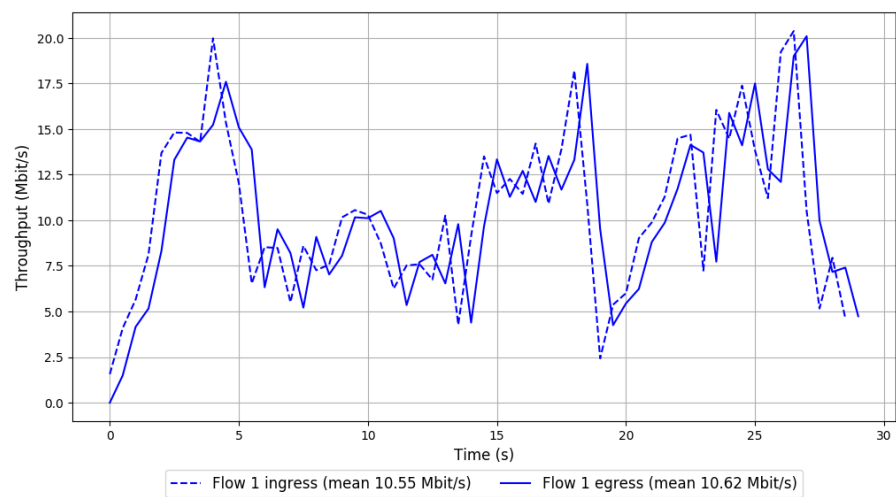
-- Flow 1:

Average throughput: 10.62 Mbit/s

95th percentile per-packet one-way delay: 114.817 ms

Loss rate: 0.15%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-17 16:58:55

End at: 2019-07-17 16:59:25

Local clock offset: -3.194 ms

Remote clock offset: -0.33 ms

Below is generated by plot.py at 2019-07-17 17:24:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 1087.352 ms

Loss rate: 39.86%

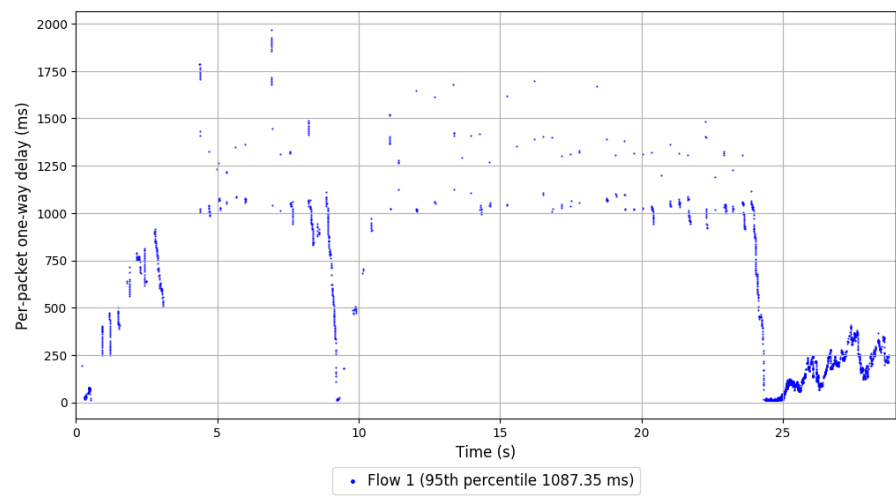
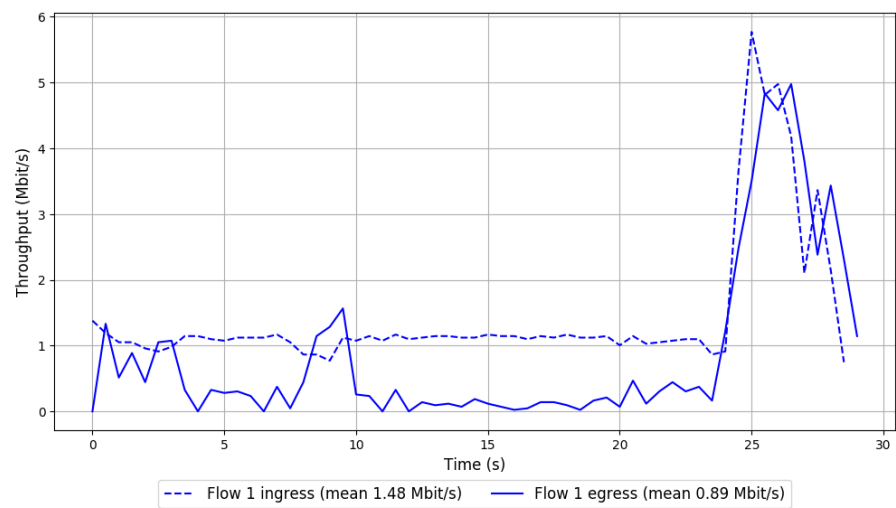
-- Flow 1:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 1087.352 ms

Loss rate: 39.86%

Run 3: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-07-17 16:04:36

End at: 2019-07-17 16:05:06

Local clock offset: -4.623 ms

Remote clock offset: -1.161 ms

Below is generated by plot.py at 2019-07-17 17:24:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 291.440 ms

Loss rate: 0.58%

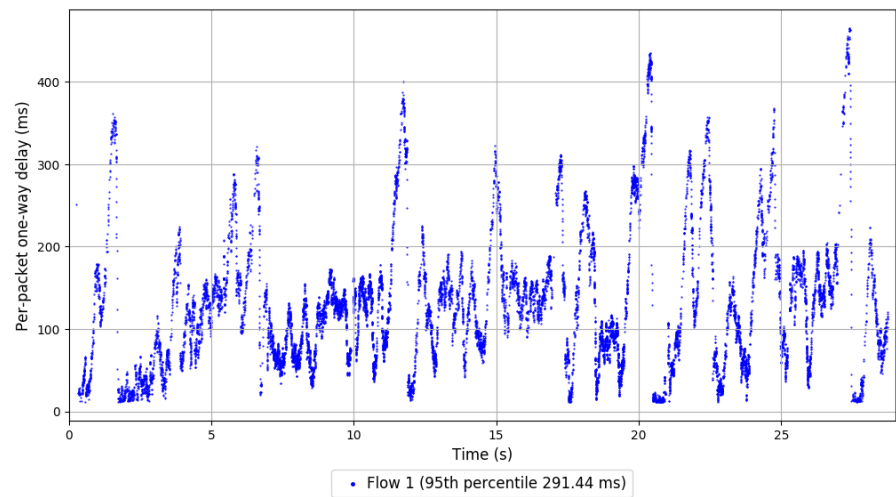
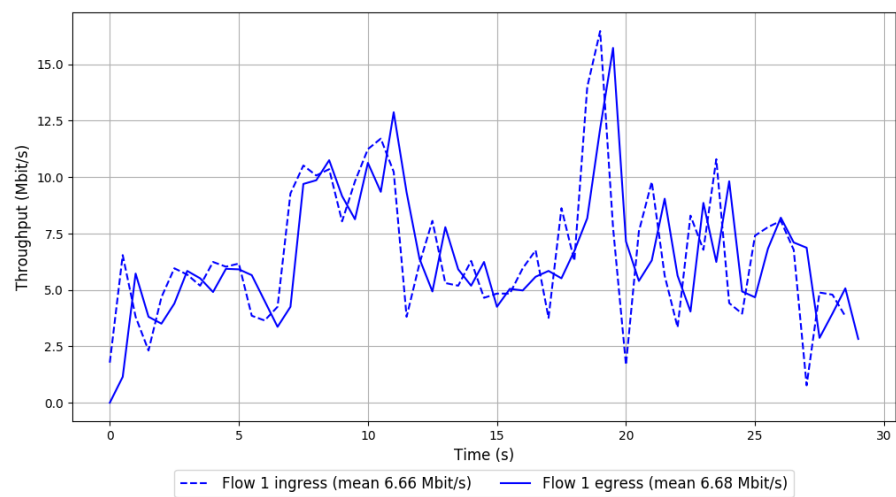
-- Flow 1:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 291.440 ms

Loss rate: 0.58%

Run 1: Report of Indigo-MusesT — Data Link

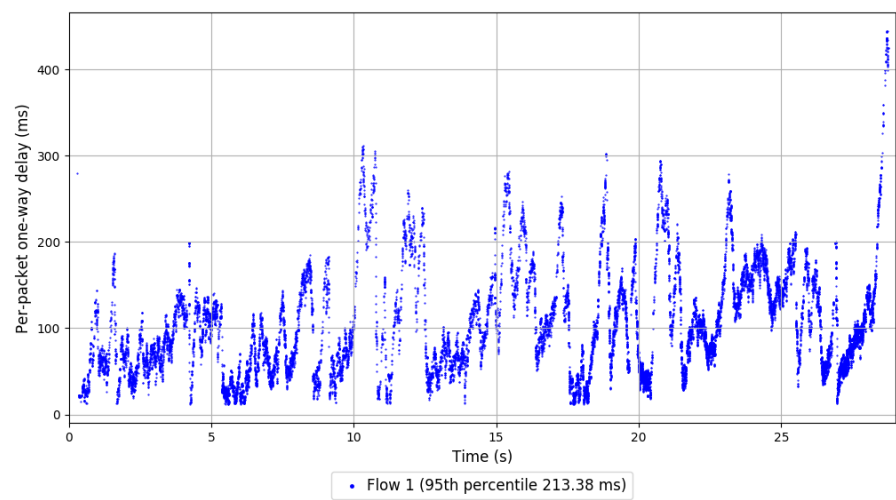
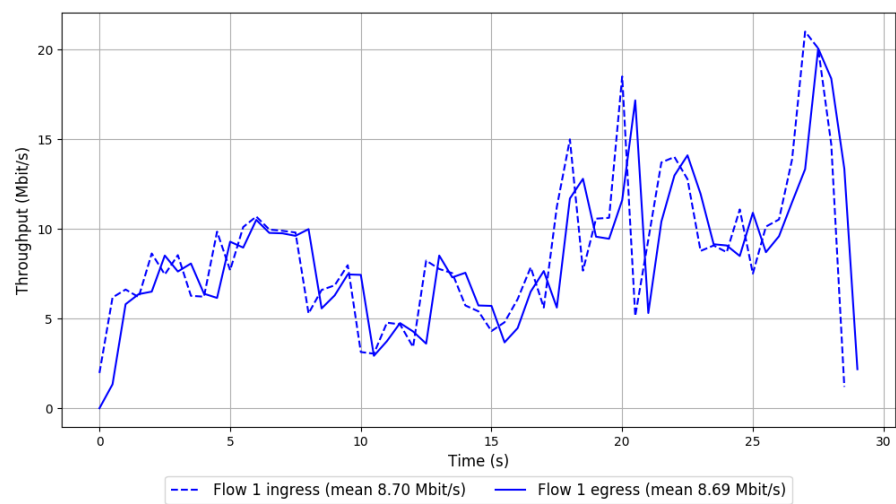


Run 2: Statistics of Indigo-MusesT

Start at: 2019-07-17 16:34:16
End at: 2019-07-17 16:34:46
Local clock offset: -0.44 ms
Remote clock offset: -0.313 ms

Below is generated by plot.py at 2019-07-17 17:24:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.69 Mbit/s
95th percentile per-packet one-way delay: 213.381 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 8.69 Mbit/s
95th percentile per-packet one-way delay: 213.381 ms
Loss rate: 1.06%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-07-17 17:03:50

End at: 2019-07-17 17:04:20

Local clock offset: -3.649 ms

Remote clock offset: -0.299 ms

Below is generated by plot.py at 2019-07-17 17:24:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 386.898 ms

Loss rate: 1.06%

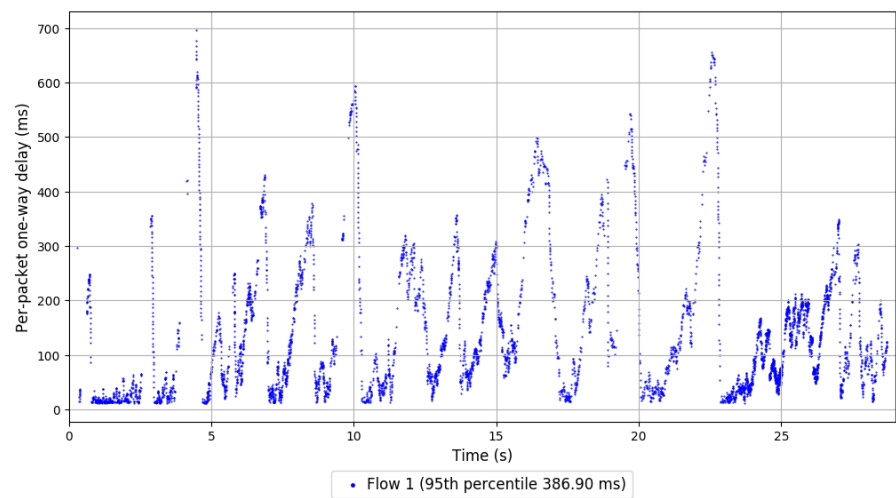
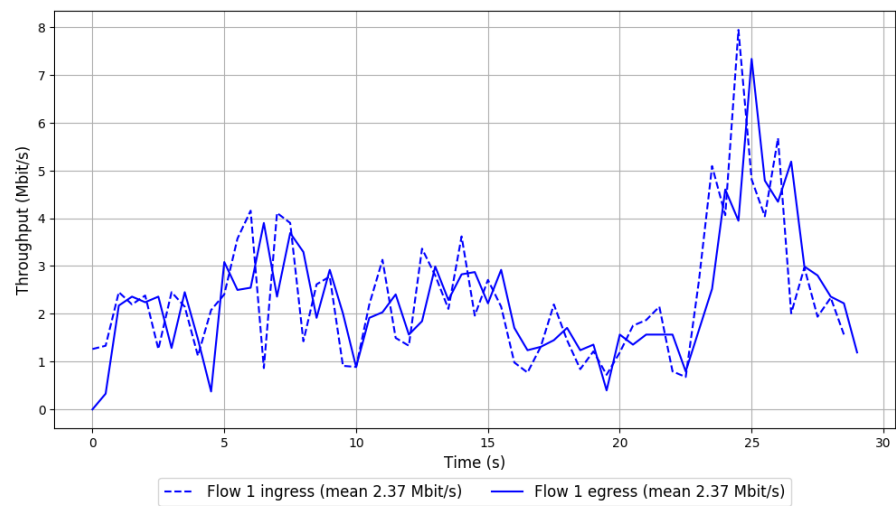
-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 386.898 ms

Loss rate: 1.06%

Run 3: Report of Indigo-MusesT — Data Link

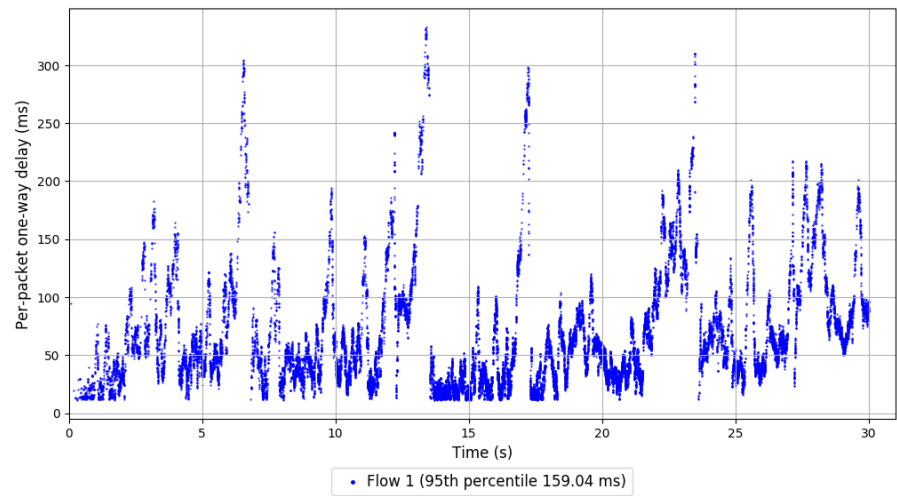
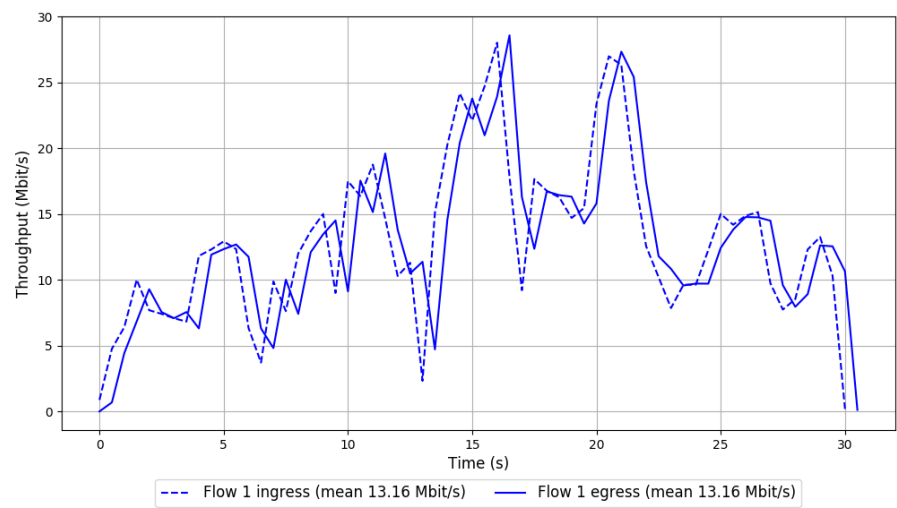


Run 1: Statistics of LEDBAT

Start at: 2019-07-17 16:10:45
End at: 2019-07-17 16:11:15
Local clock offset: -7.135 ms
Remote clock offset: -1.035 ms

Below is generated by plot.py at 2019-07-17 17:25:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.16 Mbit/s
95th percentile per-packet one-way delay: 159.039 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 13.16 Mbit/s
95th percentile per-packet one-way delay: 159.039 ms
Loss rate: 0.28%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-07-17 16:40:26

End at: 2019-07-17 16:40:56

Local clock offset: -1.237 ms

Remote clock offset: -0.31 ms

Below is generated by plot.py at 2019-07-17 17:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.96 Mbit/s

95th percentile per-packet one-way delay: 152.721 ms

Loss rate: 0.35%

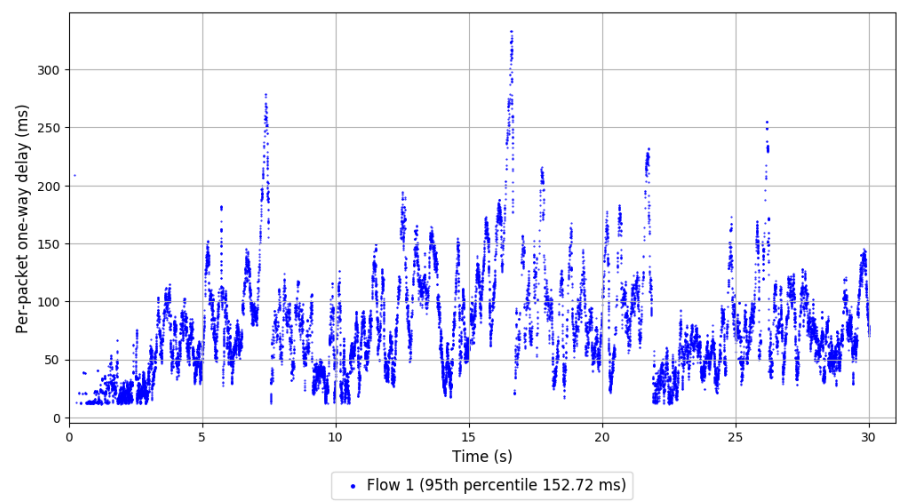
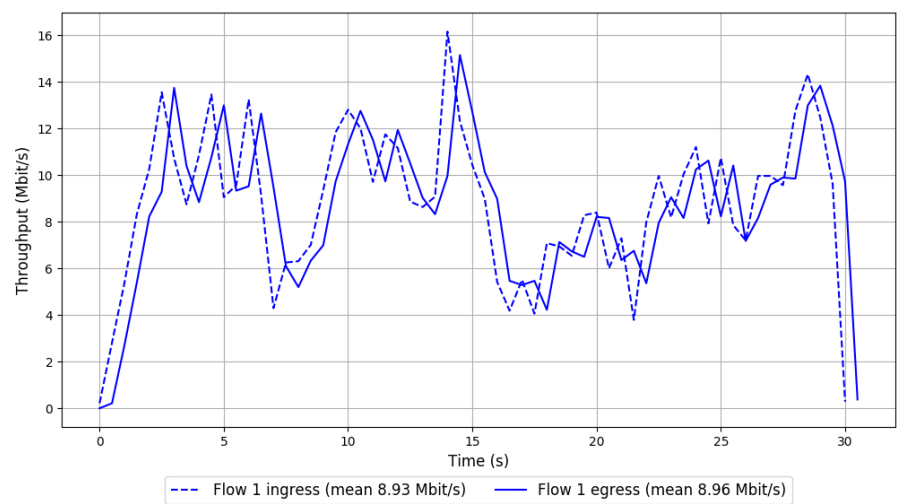
-- Flow 1:

Average throughput: 8.96 Mbit/s

95th percentile per-packet one-way delay: 152.721 ms

Loss rate: 0.35%

Run 2: Report of LEDBAT — Data Link

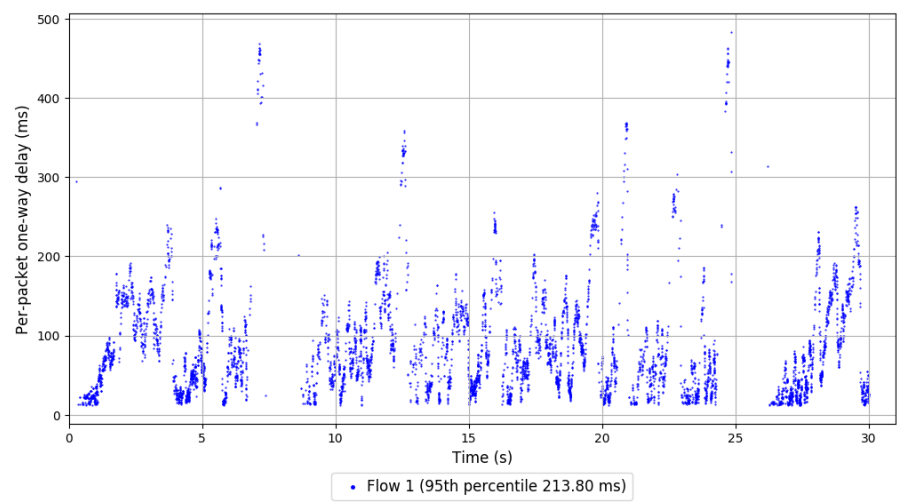
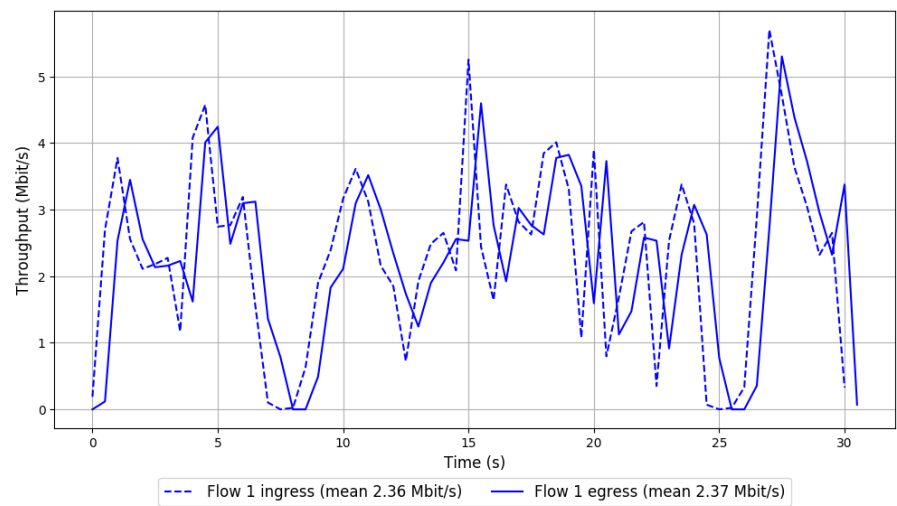


Run 3: Statistics of LEDBAT

Start at: 2019-07-17 17:09:59
End at: 2019-07-17 17:10:29
Local clock offset: -4.276 ms
Remote clock offset: -0.303 ms

Below is generated by plot.py at 2019-07-17 17:25:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 213.799 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 213.799 ms
Loss rate: 0.45%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-07-17 15:55:58
End at: 2019-07-17 15:56:28
Local clock offset: 3.177 ms
Remote clock offset: -0.801 ms

Below is generated by plot.py at 2019-07-17 17:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 32.346 ms

Loss rate: 0.00%

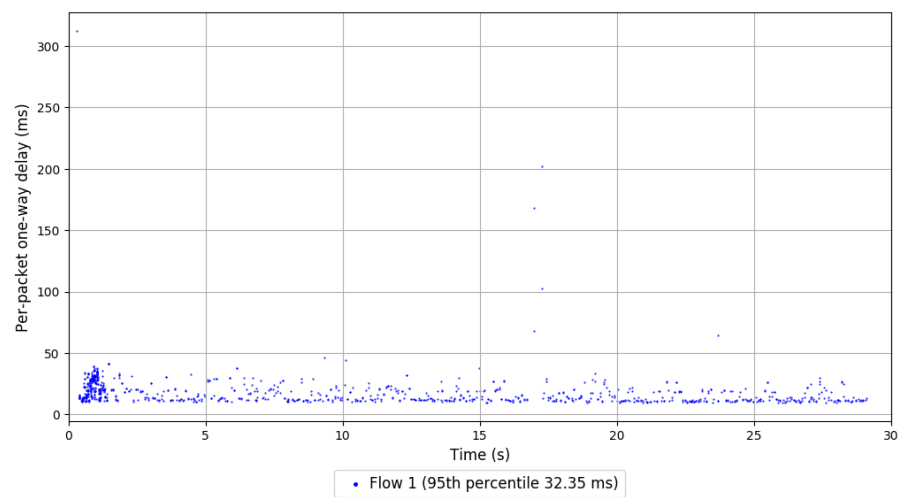
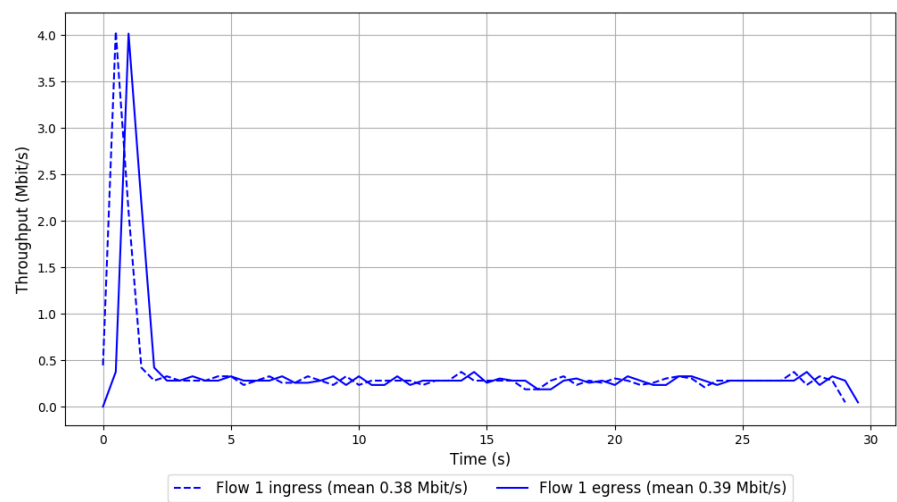
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 32.346 ms

Loss rate: 0.00%

Run 1: Report of Muses_DecisionTree — Data Link

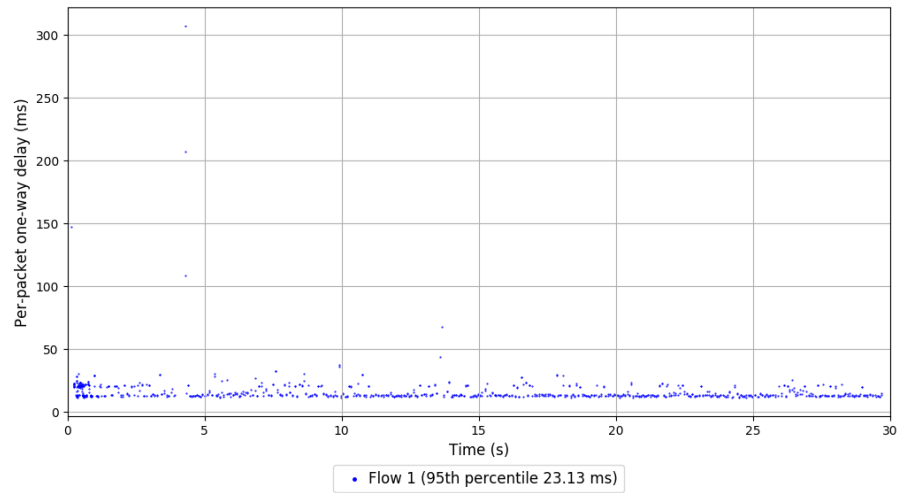
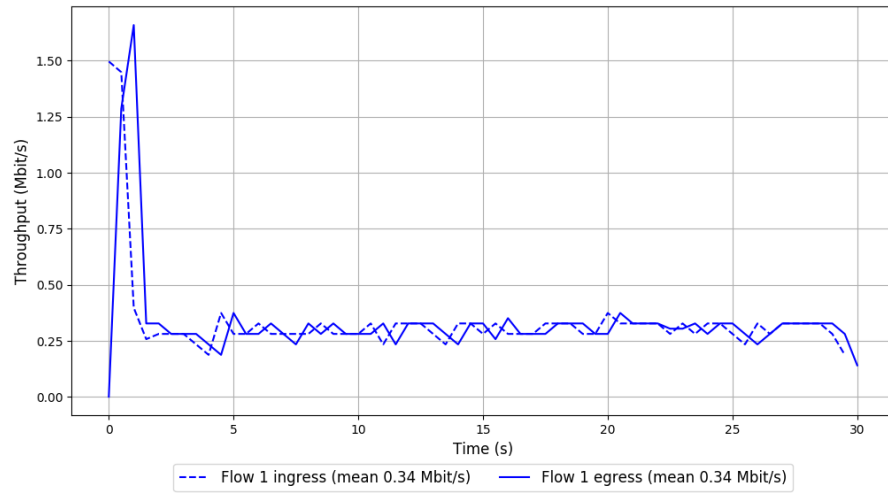


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-07-17 16:25:33
End at: 2019-07-17 16:26:03
Local clock offset: 1.187 ms
Remote clock offset: -0.436 ms

Below is generated by plot.py at 2019-07-17 17:25:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 23.130 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 23.130 ms
Loss rate: 0.23%

Run 2: Report of Muses_DecisionTree — Data Link

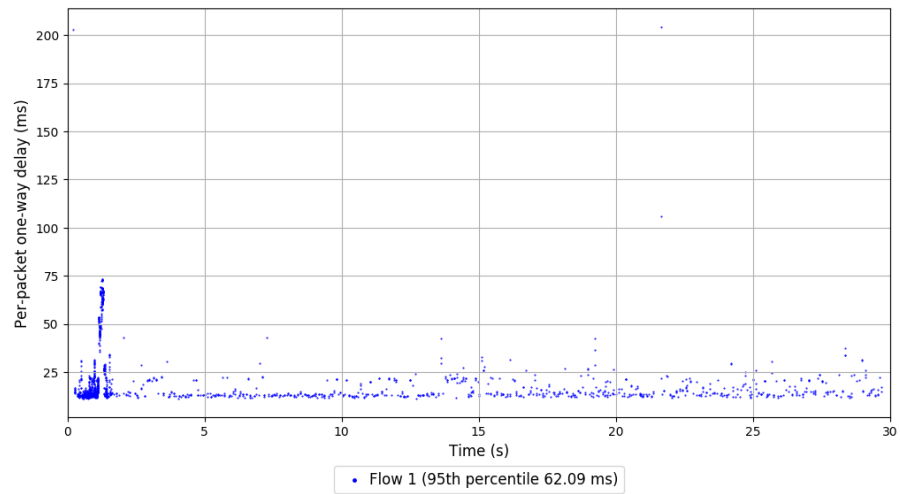
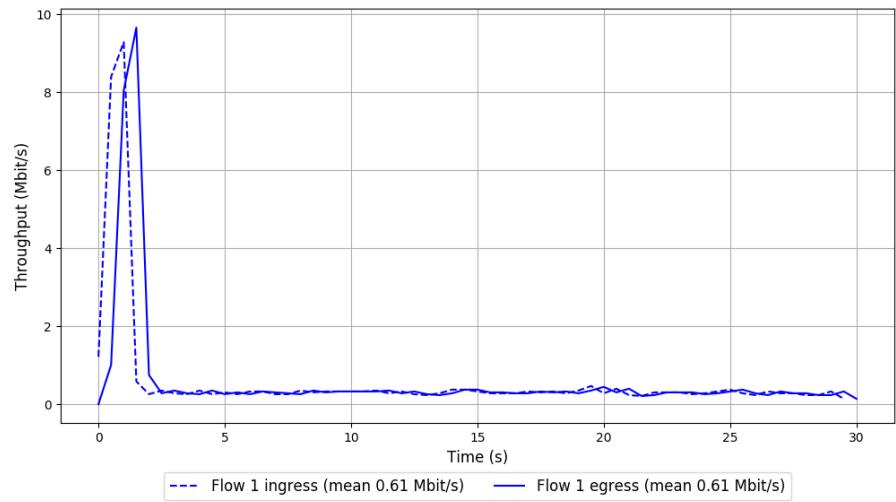


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-07-17 16:55:13
End at: 2019-07-17 16:55:43
Local clock offset: -2.905 ms
Remote clock offset: -0.324 ms

Below is generated by plot.py at 2019-07-17 17:25:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 62.089 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 62.089 ms
Loss rate: 0.00%

Run 3: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-17 16:24:19
End at: 2019-07-17 16:24:49
Local clock offset: 1.224 ms
Remote clock offset: -0.463 ms

Below is generated by plot.py at 2019-07-17 17:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 49.039 ms

Loss rate: 0.00%

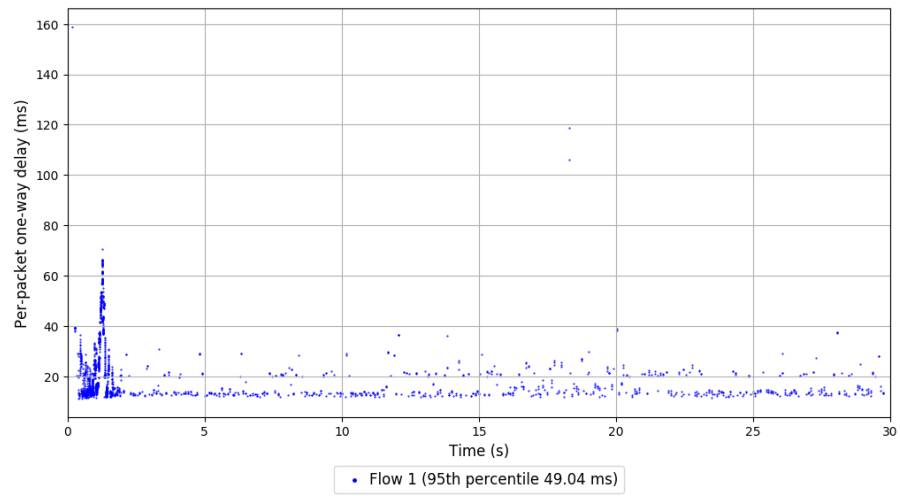
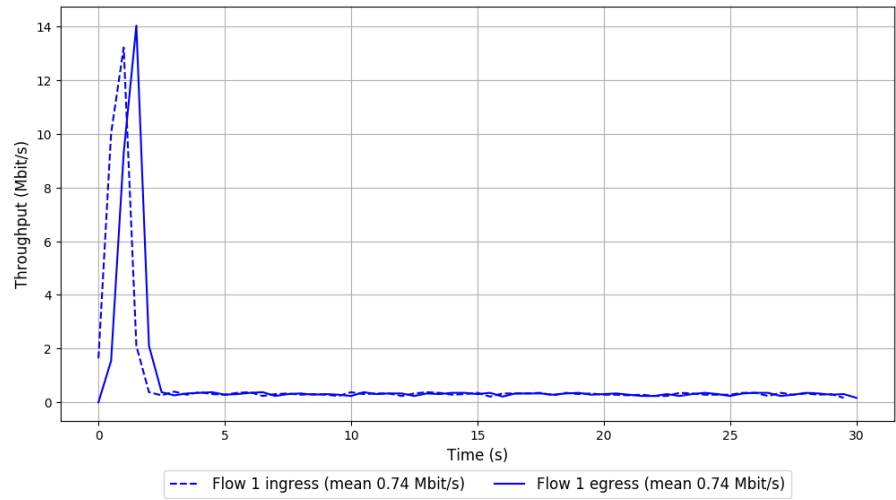
-- Flow 1:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 49.039 ms

Loss rate: 0.00%

Run 1: Report of Muses_DecisionTreeH0 — Data Link

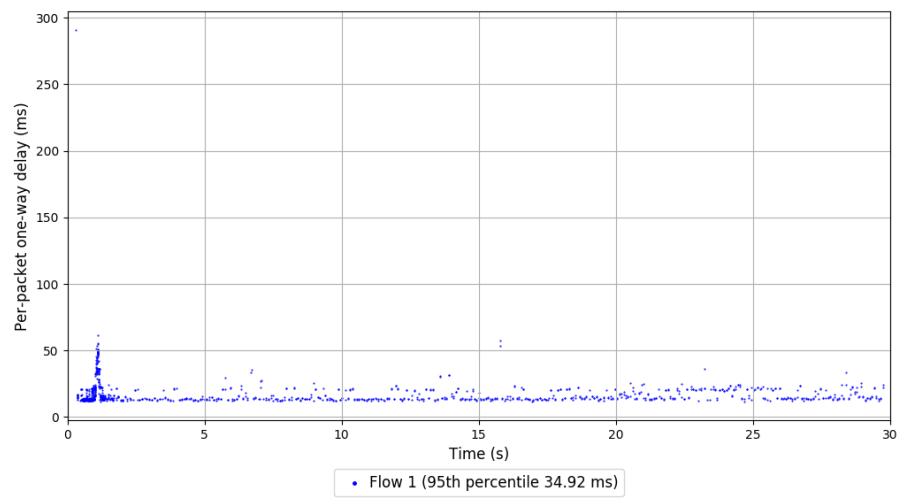
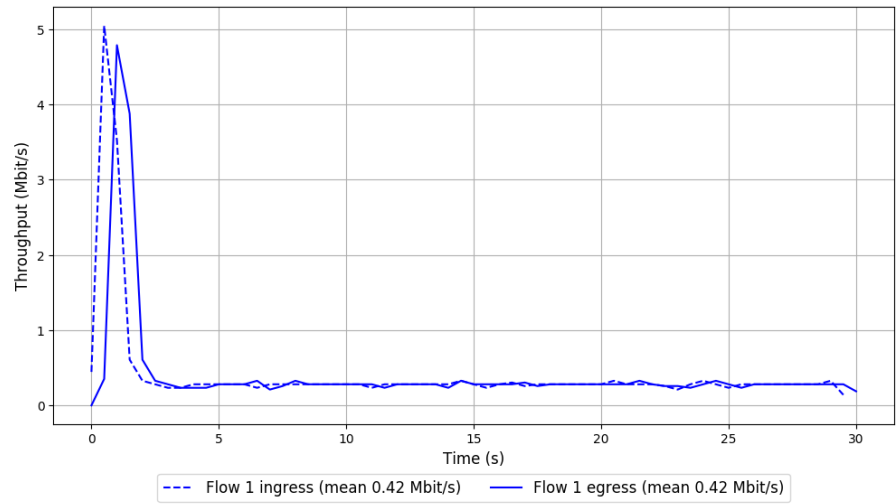


Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-17 16:53:59
End at: 2019-07-17 16:54:29
Local clock offset: -2.775 ms
Remote clock offset: -0.397 ms

Below is generated by plot.py at 2019-07-17 17:25:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 34.923 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 34.923 ms
Loss rate: 0.00%

Run 2: Report of Muses_DecisionTreeH0 — Data Link

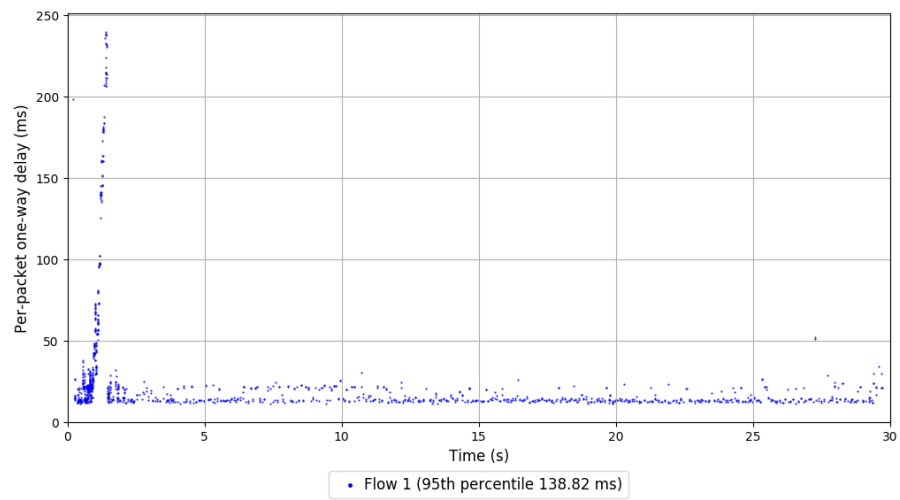
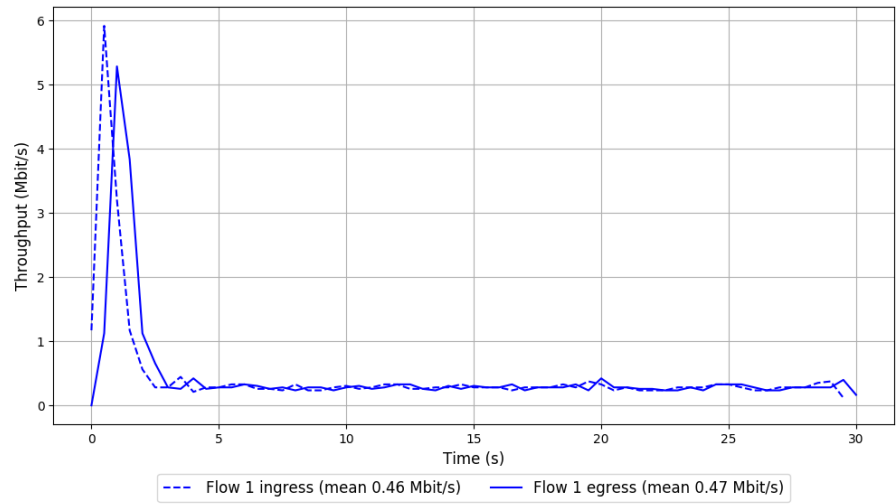


Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-17 17:23:32
End at: 2019-07-17 17:24:02
Local clock offset: -5.668 ms
Remote clock offset: -2.113 ms

Below is generated by plot.py at 2019-07-17 17:25:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 138.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 138.823 ms
Loss rate: 0.00%

Run 3: Report of Muses_DecisionTreeH0 — Data Link

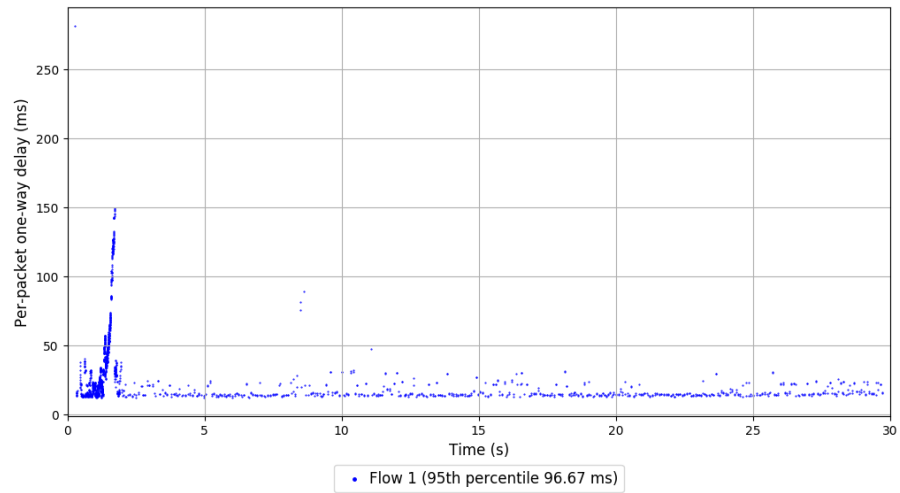
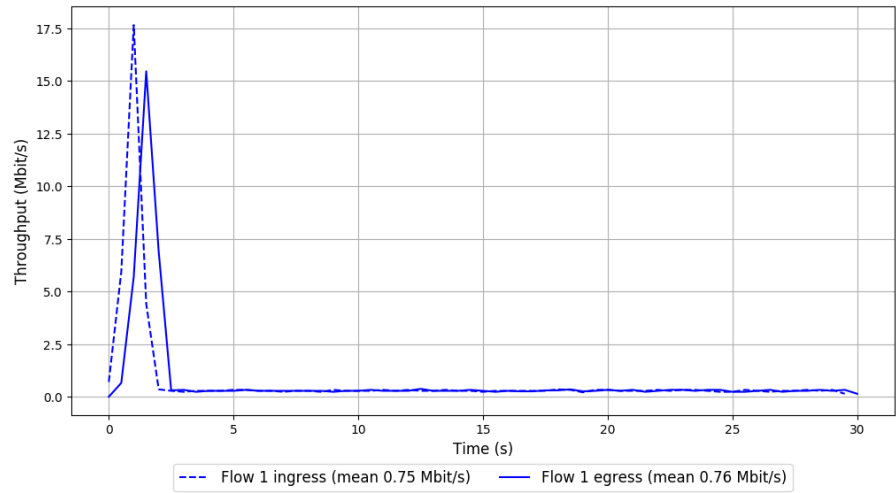


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-17 16:13:14
End at: 2019-07-17 16:13:44
Local clock offset: -5.345 ms
Remote clock offset: -0.911 ms

# Below is generated by plot.py at 2019-07-17 17:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 96.671 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 96.671 ms
Loss rate: 0.00%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

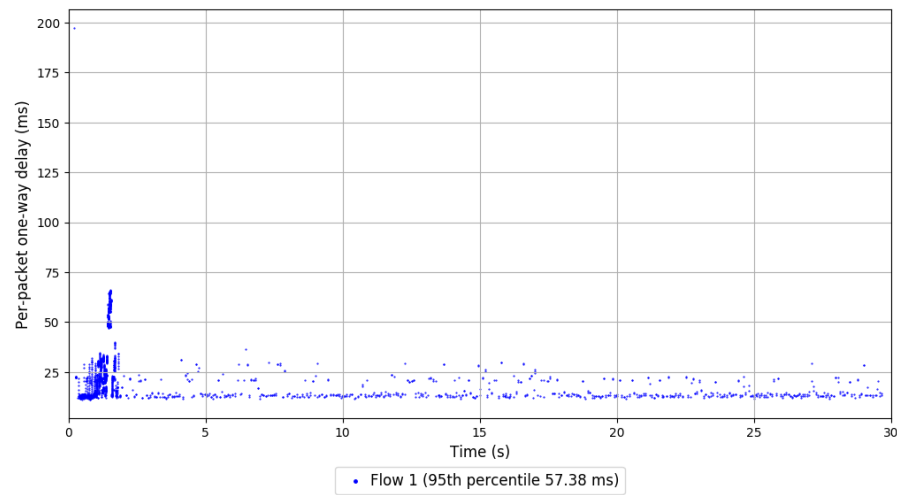
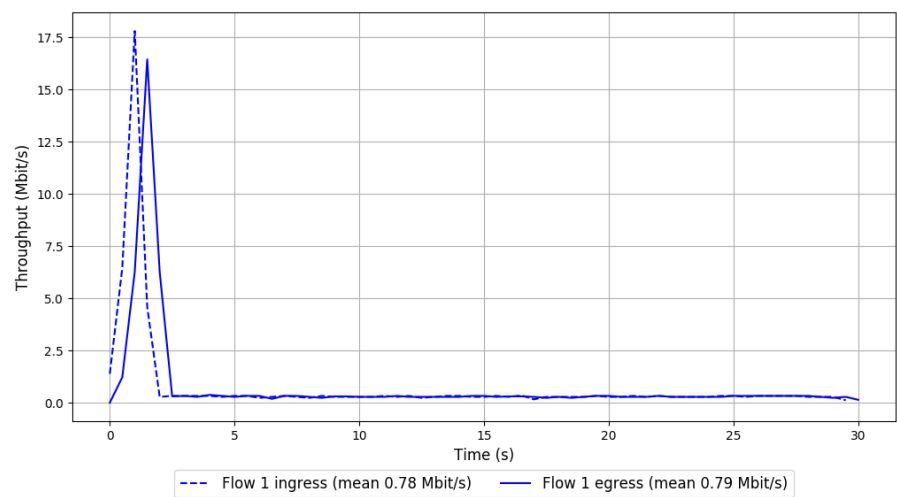


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-17 16:42:54
End at: 2019-07-17 16:43:24
Local clock offset: -1.56 ms
Remote clock offset: -0.292 ms

Below is generated by plot.py at 2019-07-17 17:25:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 57.381 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 57.381 ms
Loss rate: 0.05%

Run 2: Report of Muses_DecisionTreeR0 — Data Link

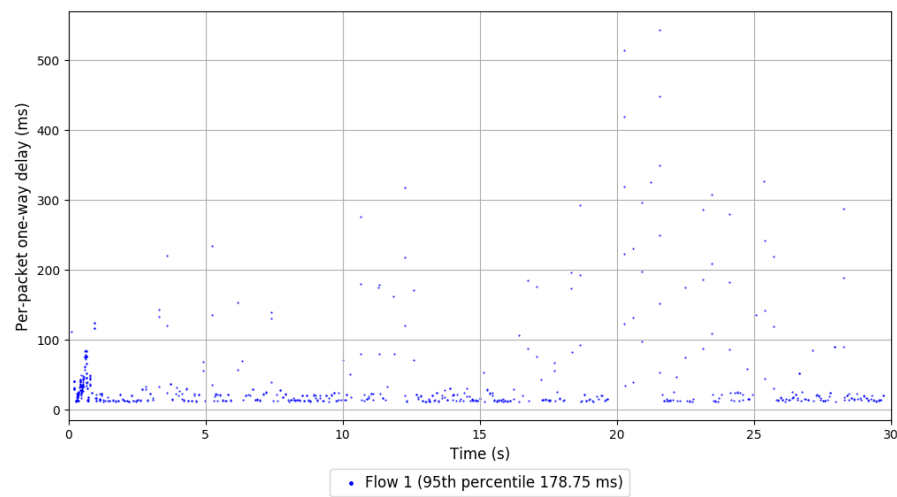
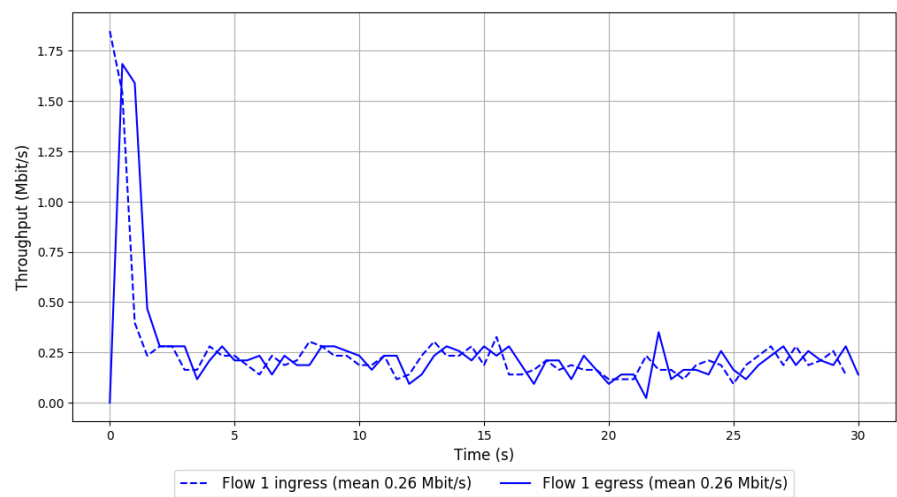


Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-17 17:12:26
End at: 2019-07-17 17:12:57
Local clock offset: -4.551 ms
Remote clock offset: -0.292 ms

Below is generated by plot.py at 2019-07-17 17:25:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 178.752 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 178.752 ms
Loss rate: 0.00%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-07-17 16:23:05

End at: 2019-07-17 16:23:35

Local clock offset: 1.13 ms

Remote clock offset: -0.516 ms

Below is generated by plot.py at 2019-07-17 17:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 25.301 ms

Loss rate: 0.04%

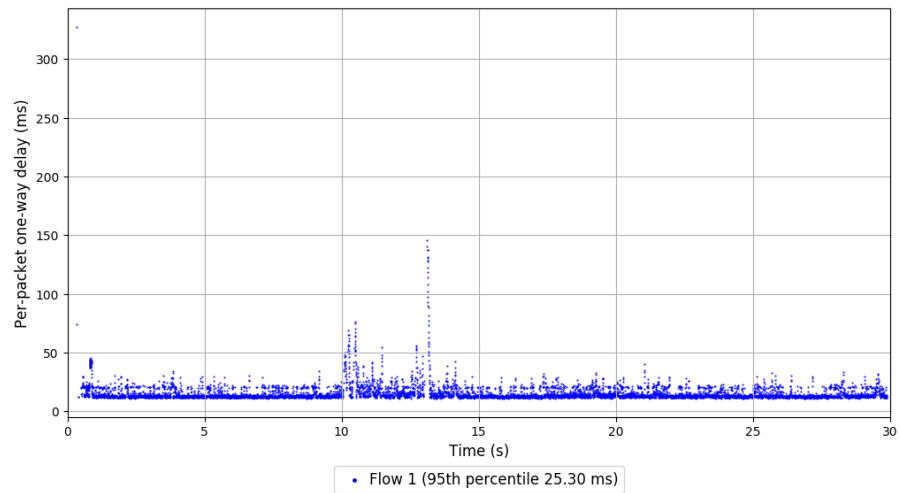
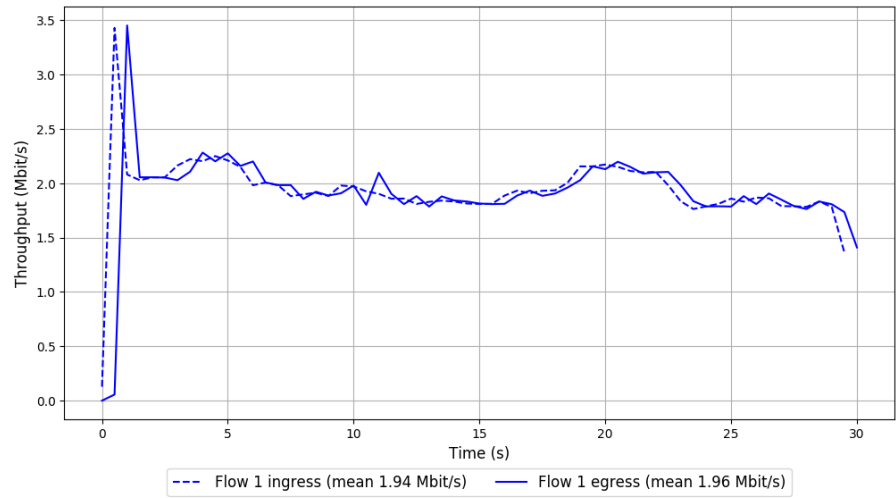
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 25.301 ms

Loss rate: 0.04%

Run 1: Report of PCC-Allegro — Data Link

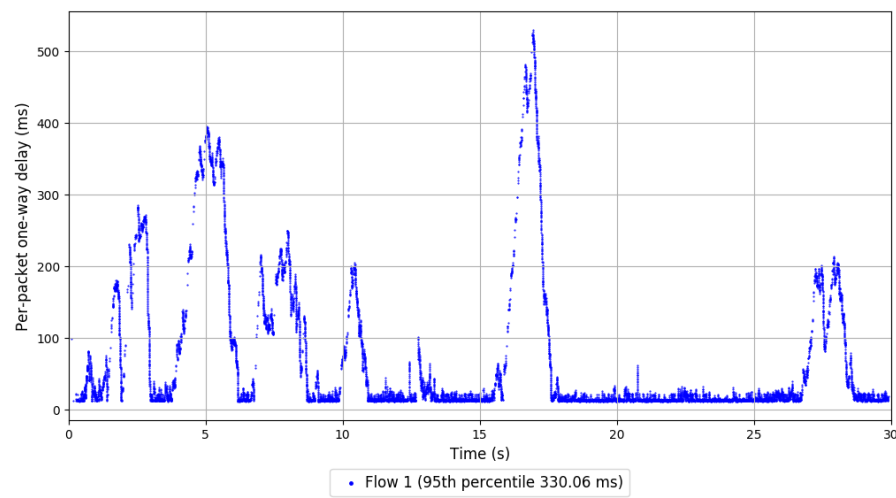
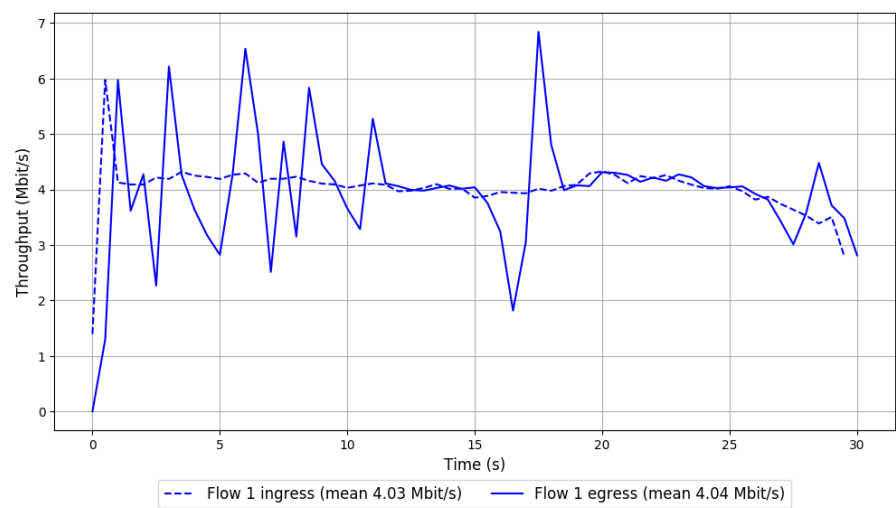


Run 2: Statistics of PCC-Allegro

Start at: 2019-07-17 16:52:45
End at: 2019-07-17 16:53:15
Local clock offset: -2.635 ms
Remote clock offset: -0.356 ms

Below is generated by plot.py at 2019-07-17 17:25:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 330.063 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 330.063 ms
Loss rate: 0.13%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-07-17 17:22:18

End at: 2019-07-17 17:22:48

Local clock offset: -5.557 ms

Remote clock offset: -1.981 ms

Below is generated by plot.py at 2019-07-17 17:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 26.640 ms

Loss rate: 0.04%

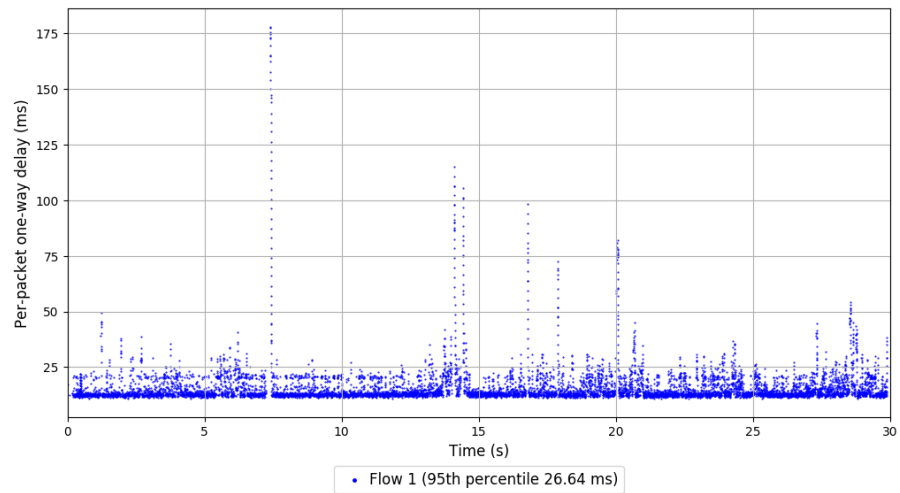
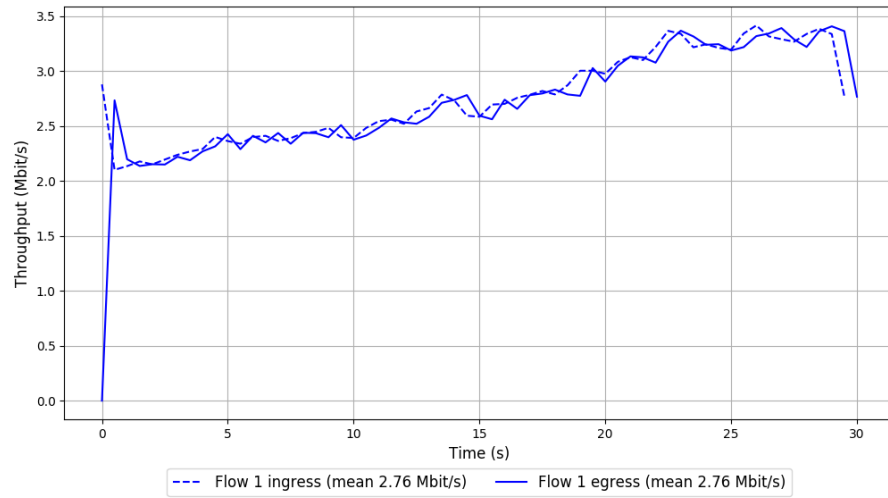
-- Flow 1:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 26.640 ms

Loss rate: 0.04%

Run 3: Report of PCC-Allegro — Data Link

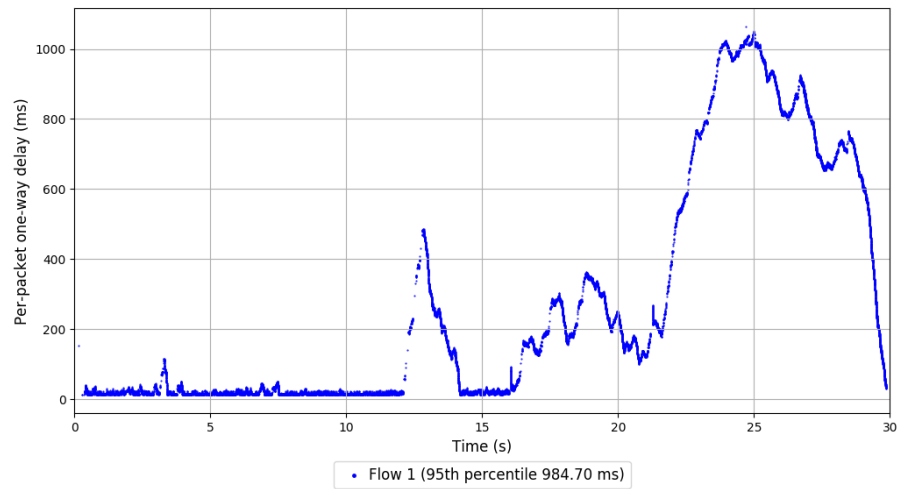
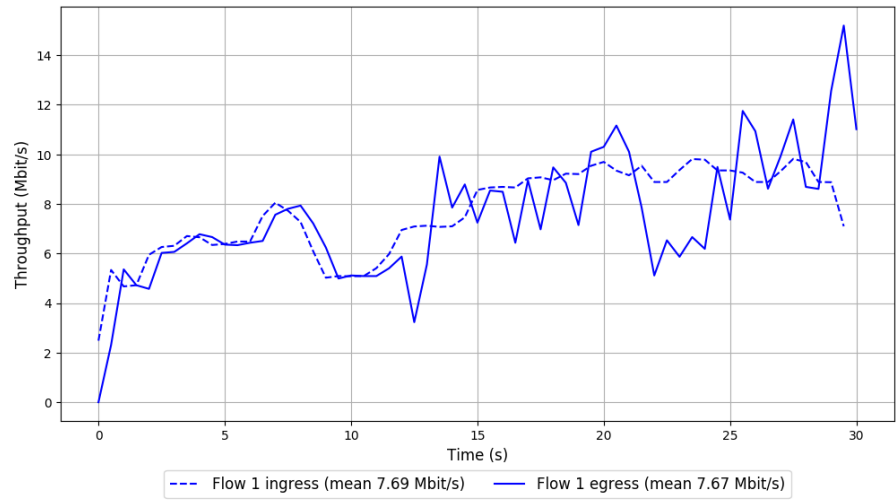


Run 1: Statistics of PCC-Expr

Start at: 2019-07-17 16:20:37
End at: 2019-07-17 16:21:07
Local clock offset: 0.712 ms
Remote clock offset: -0.535 ms

Below is generated by plot.py at 2019-07-17 17:25:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 984.696 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 984.696 ms
Loss rate: 0.79%

Run 1: Report of PCC-Expr — Data Link

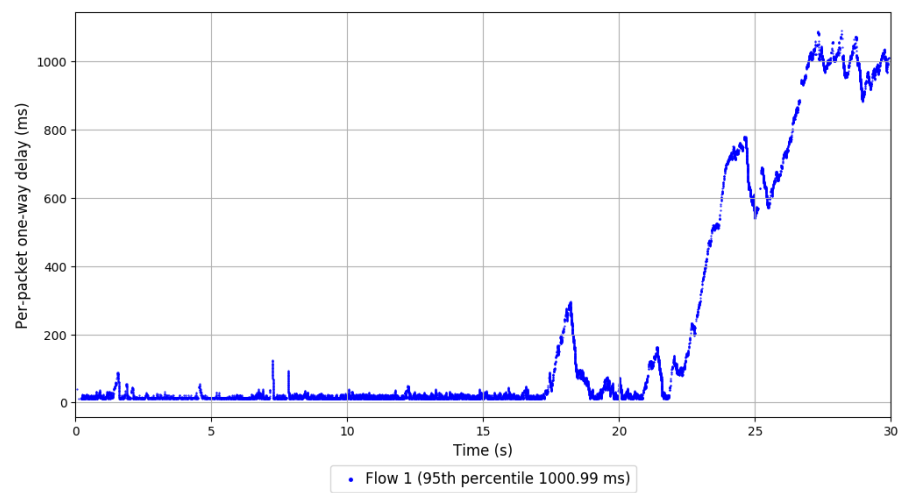
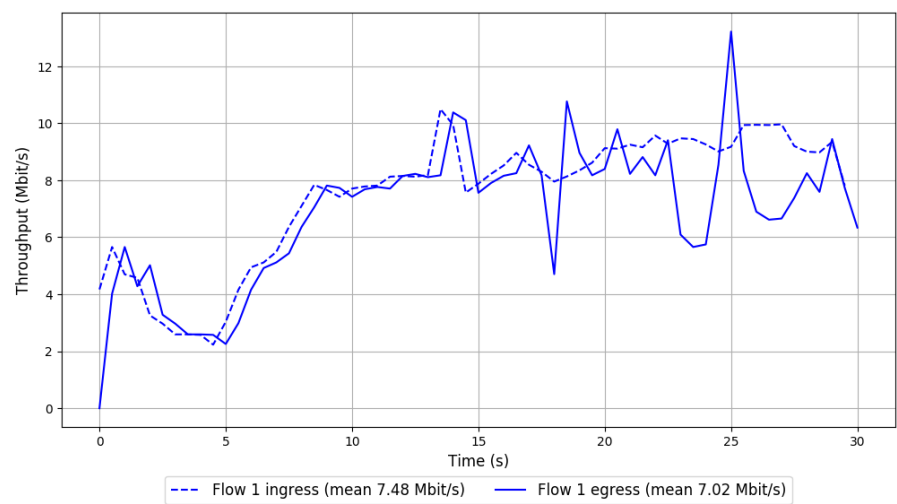


Run 2: Statistics of PCC-Expr

Start at: 2019-07-17 16:50:17
End at: 2019-07-17 16:50:47
Local clock offset: -2.373 ms
Remote clock offset: -0.284 ms

Below is generated by plot.py at 2019-07-17 17:25:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 1000.994 ms
Loss rate: 6.27%
-- Flow 1:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 1000.994 ms
Loss rate: 6.27%

Run 2: Report of PCC-Expr — Data Link

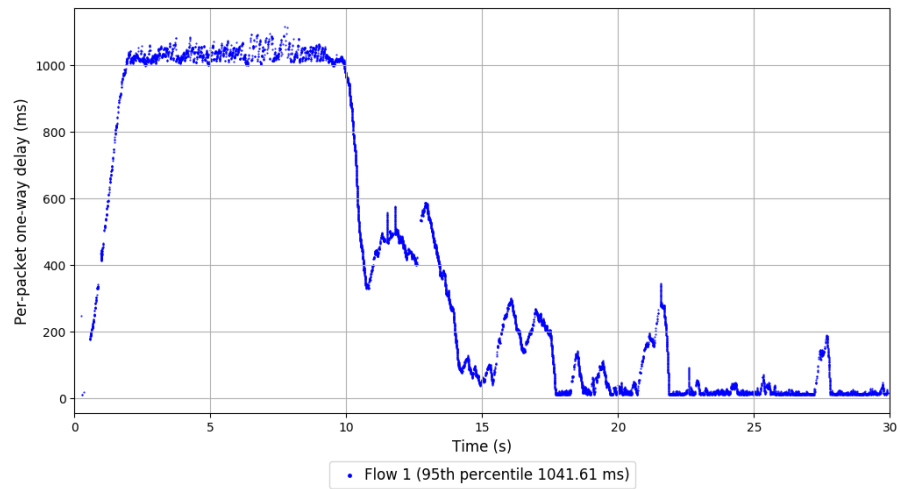
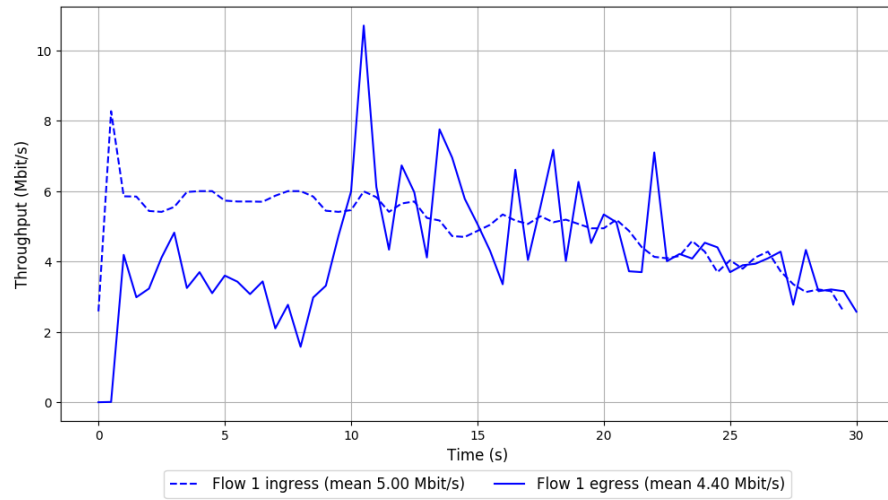


Run 3: Statistics of PCC-Expr

Start at: 2019-07-17 17:19:50
End at: 2019-07-17 17:20:20
Local clock offset: -5.278 ms
Remote clock offset: -1.385 ms

Below is generated by plot.py at 2019-07-17 17:25:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 1041.611 ms
Loss rate: 12.69%
-- Flow 1:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 1041.611 ms
Loss rate: 12.69%

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-07-17 16:14:28

End at: 2019-07-17 16:14:58

Local clock offset: -3.673 ms

Remote clock offset: -0.764 ms

Below is generated by plot.py at 2019-07-17 17:25:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 252.944 ms

Loss rate: 0.77%

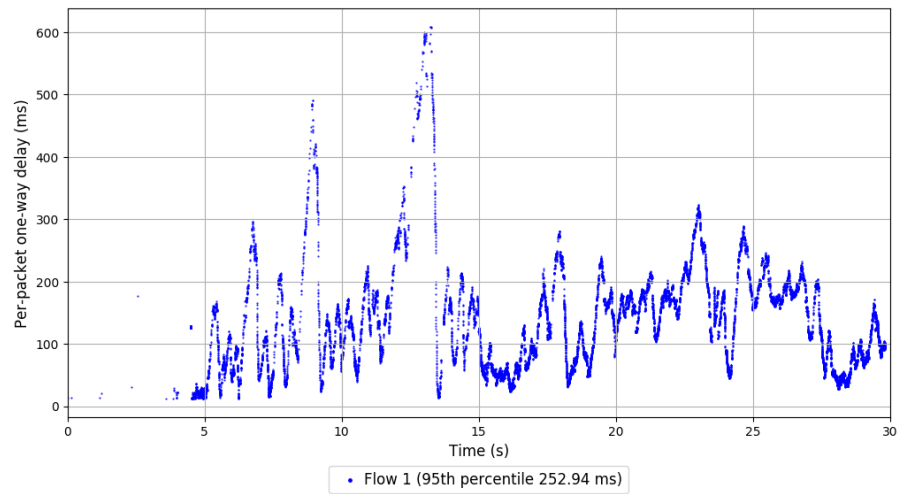
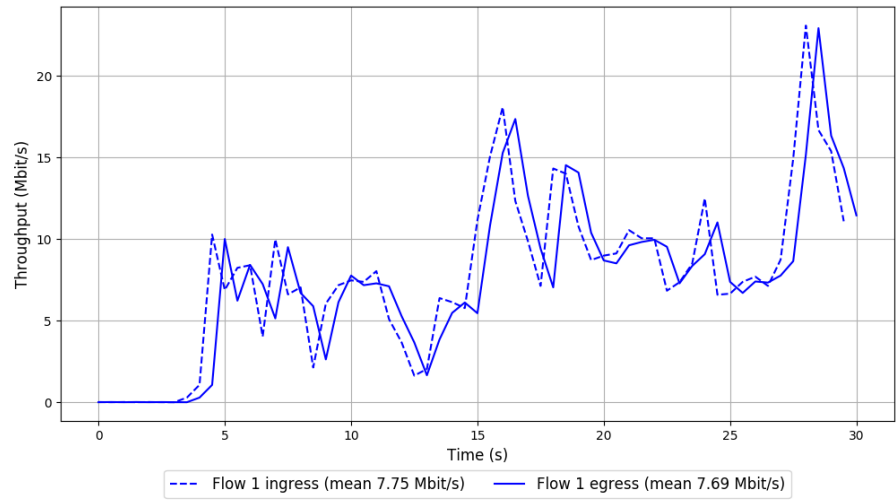
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 252.944 ms

Loss rate: 0.77%

Run 1: Report of QUIC Cubic — Data Link

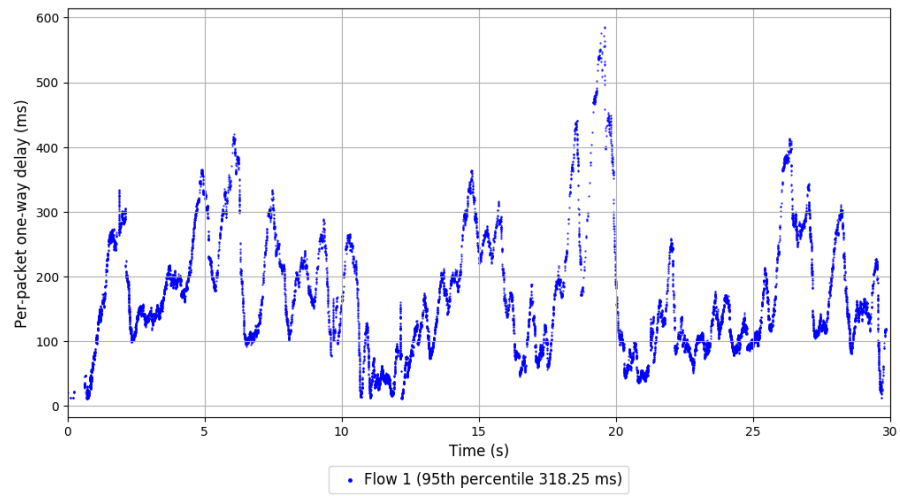
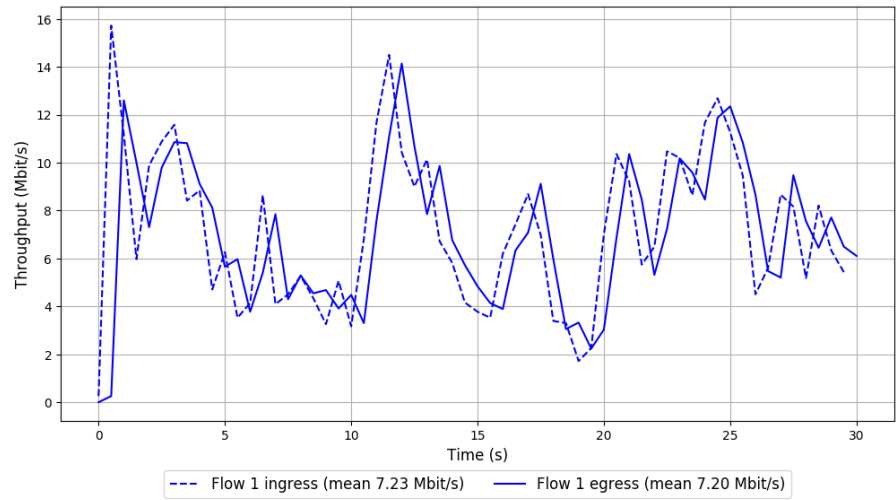


Run 2: Statistics of QUIC Cubic

Start at: 2019-07-17 16:44:08
End at: 2019-07-17 16:44:38
Local clock offset: -1.695 ms
Remote clock offset: -0.355 ms

Below is generated by plot.py at 2019-07-17 17:25:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 318.252 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 318.252 ms
Loss rate: 0.50%

Run 2: Report of QUIC Cubic — Data Link

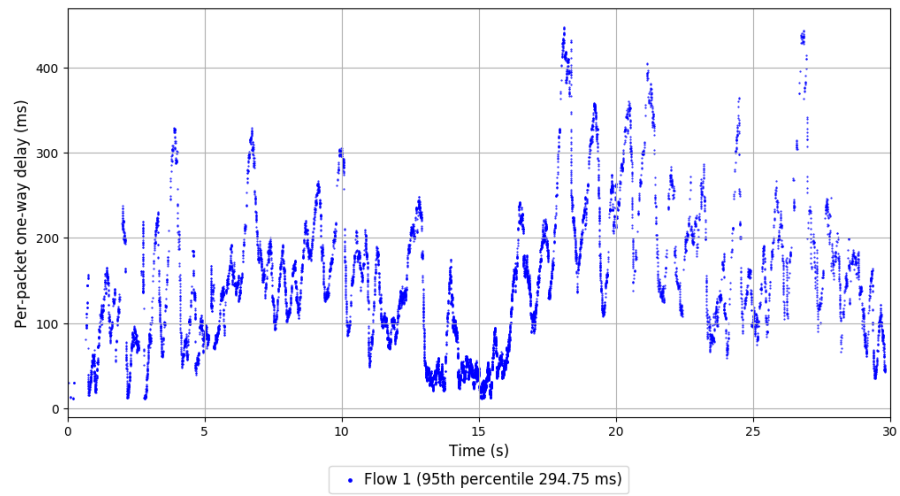
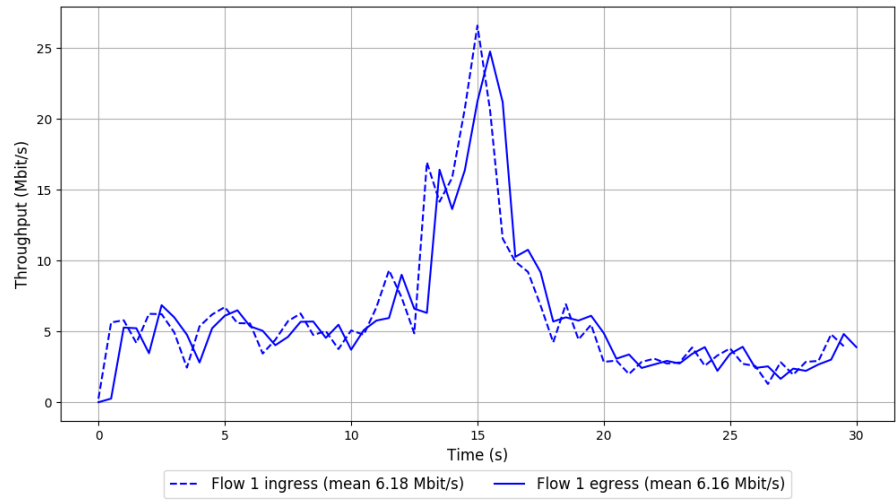


Run 3: Statistics of QUIC Cubic

Start at: 2019-07-17 17:13:40
End at: 2019-07-17 17:14:10
Local clock offset: -4.641 ms
Remote clock offset: -0.288 ms

Below is generated by plot.py at 2019-07-17 17:25:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.16 Mbit/s
95th percentile per-packet one-way delay: 294.748 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 6.16 Mbit/s
95th percentile per-packet one-way delay: 294.748 ms
Loss rate: 0.40%

Run 3: Report of QUIC Cubic — Data Link

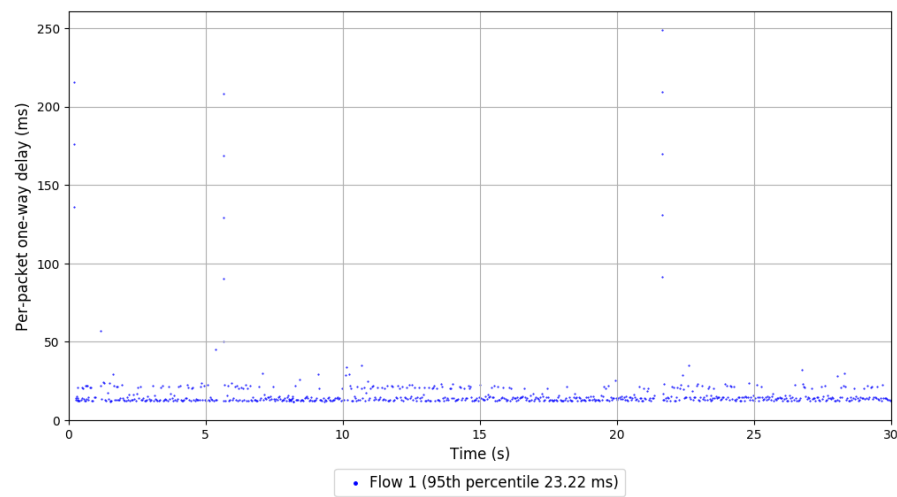
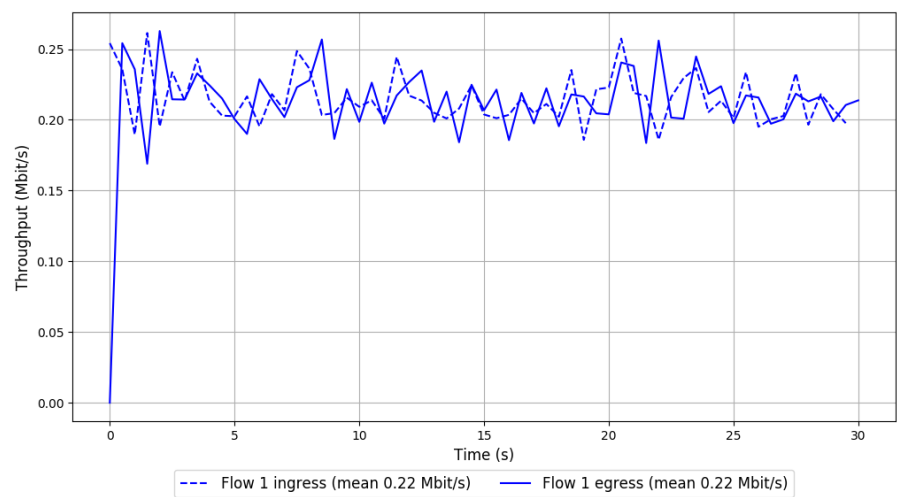


```
Run 1: Statistics of SCReAM

Start at: 2019-07-17 16:16:56
End at: 2019-07-17 16:17:26
Local clock offset: -1.055 ms
Remote clock offset: -0.69 ms

# Below is generated by plot.py at 2019-07-17 17:25:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.221 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.221 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

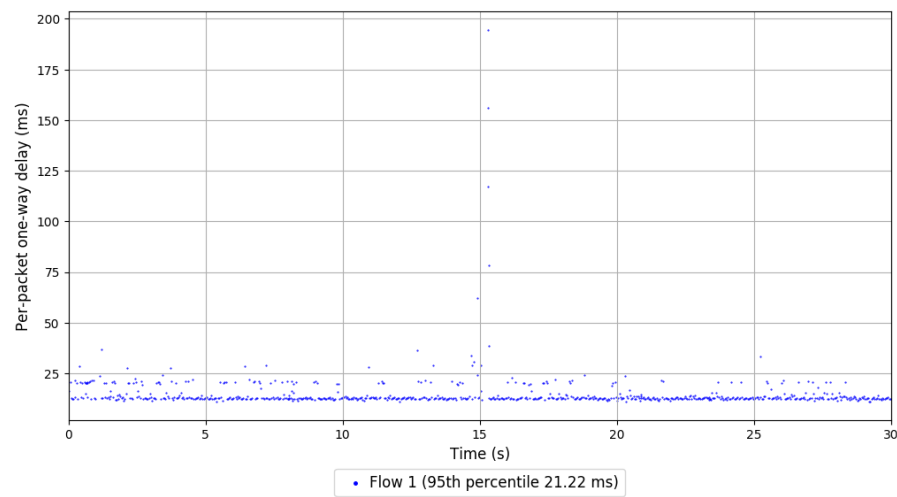
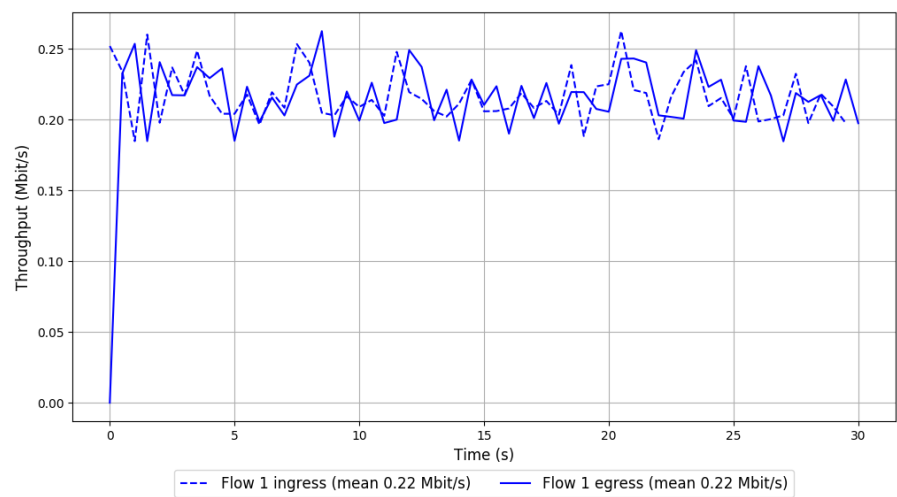


Run 2: Statistics of SCReAM

Start at: 2019-07-17 16:46:36
End at: 2019-07-17 16:47:06
Local clock offset: -1.956 ms
Remote clock offset: -0.348 ms

Below is generated by plot.py at 2019-07-17 17:25:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.219 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

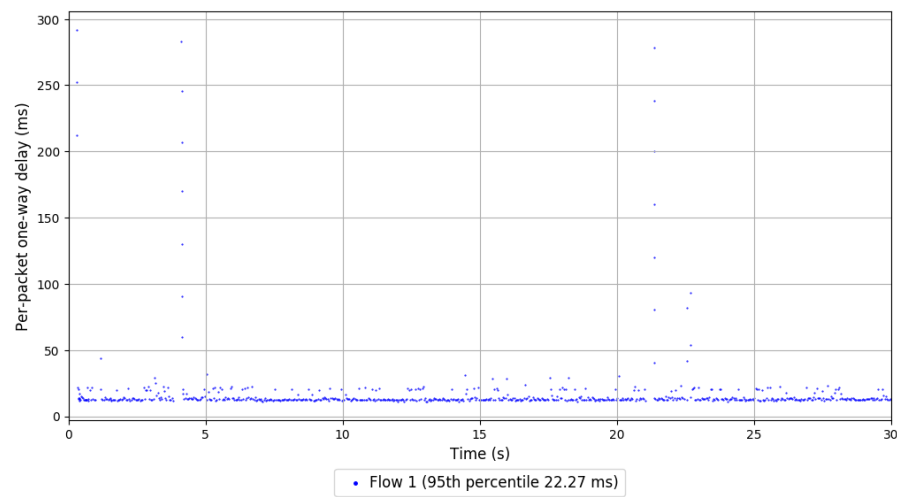
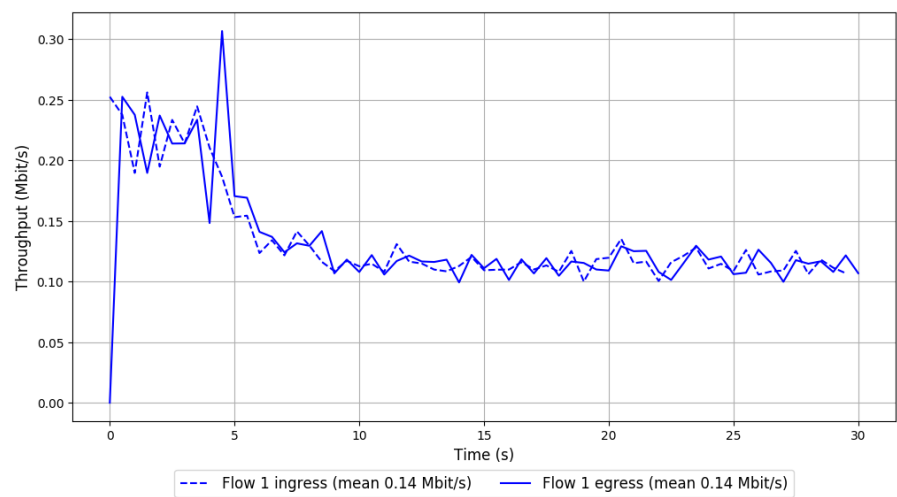


Run 3: Statistics of SCReAM

Start at: 2019-07-17 17:16:08
End at: 2019-07-17 17:16:38
Local clock offset: -4.869 ms
Remote clock offset: -0.343 ms

Below is generated by plot.py at 2019-07-17 17:25:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 22.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 22.274 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

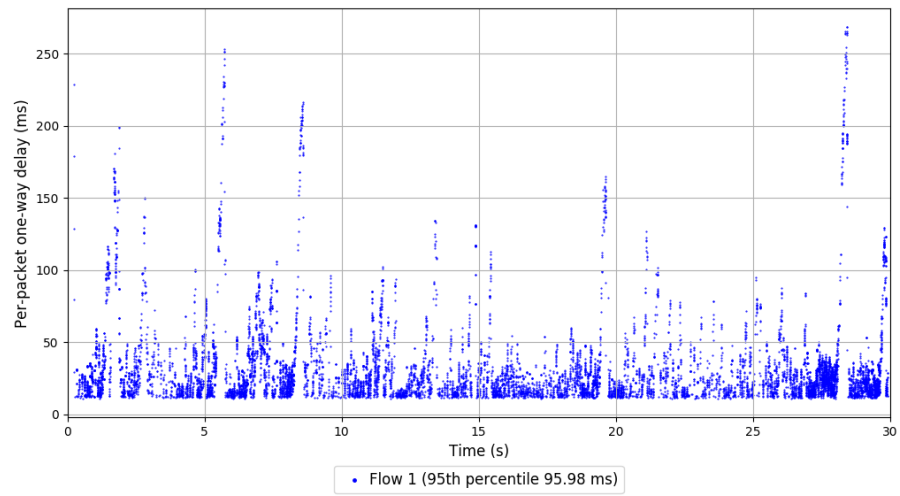
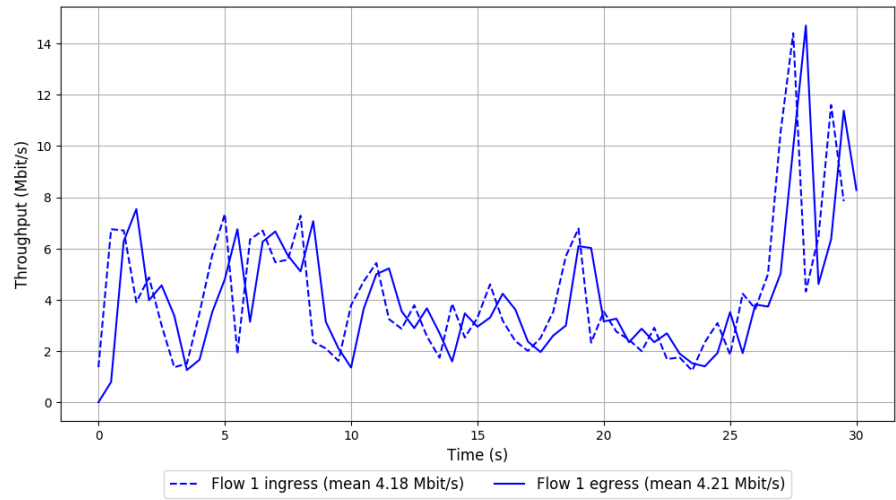


Run 1: Statistics of Sprout

Start at: 2019-07-17 16:07:04
End at: 2019-07-17 16:07:34
Local clock offset: -5.603 ms
Remote clock offset: -1.353 ms

Below is generated by plot.py at 2019-07-17 17:25:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 95.976 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 95.976 ms
Loss rate: 0.09%

Run 1: Report of Sprout — Data Link

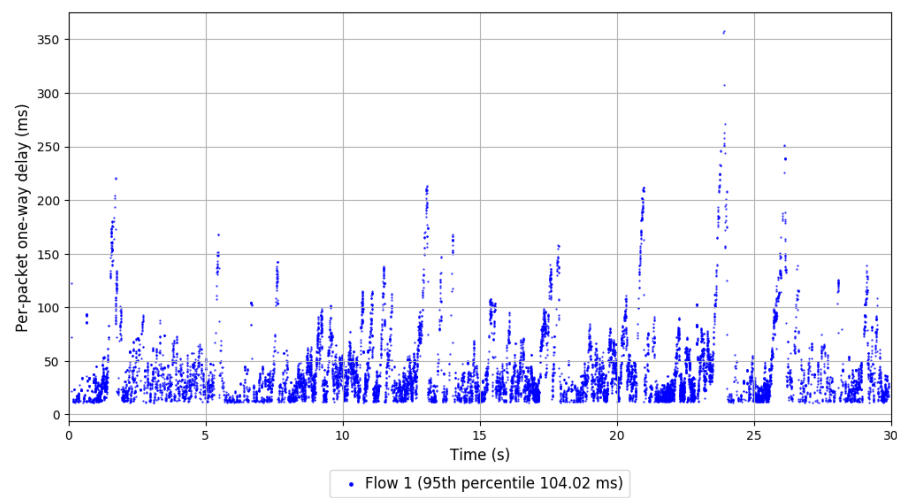
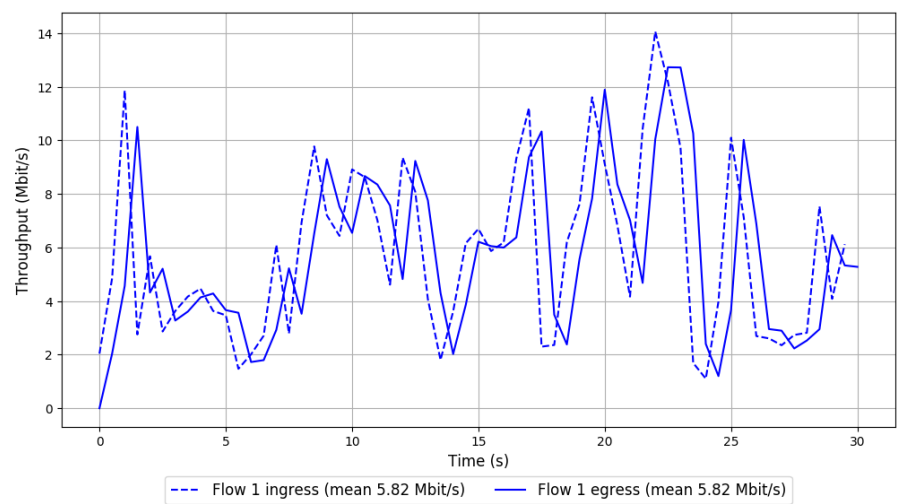


Run 2: Statistics of Sprout

Start at: 2019-07-17 16:36:44
End at: 2019-07-17 16:37:14
Local clock offset: -0.731 ms
Remote clock offset: -0.271 ms

Below is generated by plot.py at 2019-07-17 17:25:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 104.023 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 104.023 ms
Loss rate: 0.28%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

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

End at: 2019-07-17 17:06:48

Local clock offset: -3.892 ms

Remote clock offset: -0.26 ms

Below is generated by plot.py at 2019-07-17 17:25:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 94.989 ms

Loss rate: 0.00%

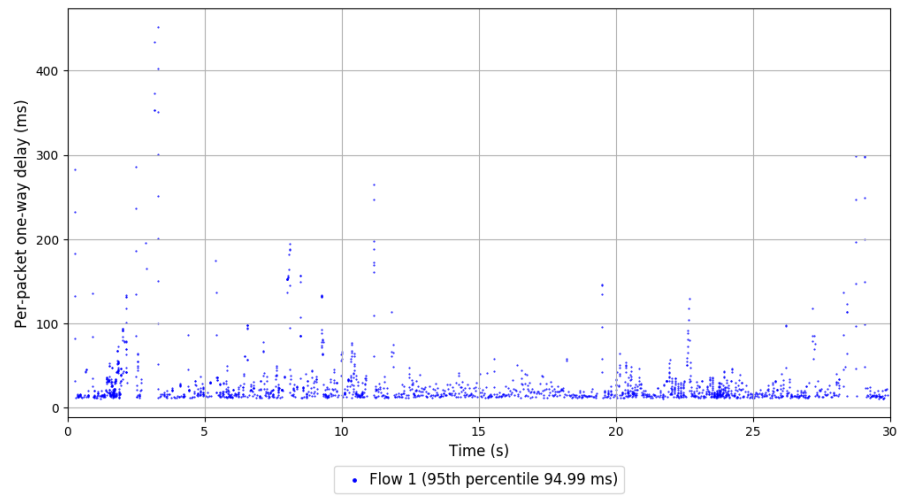
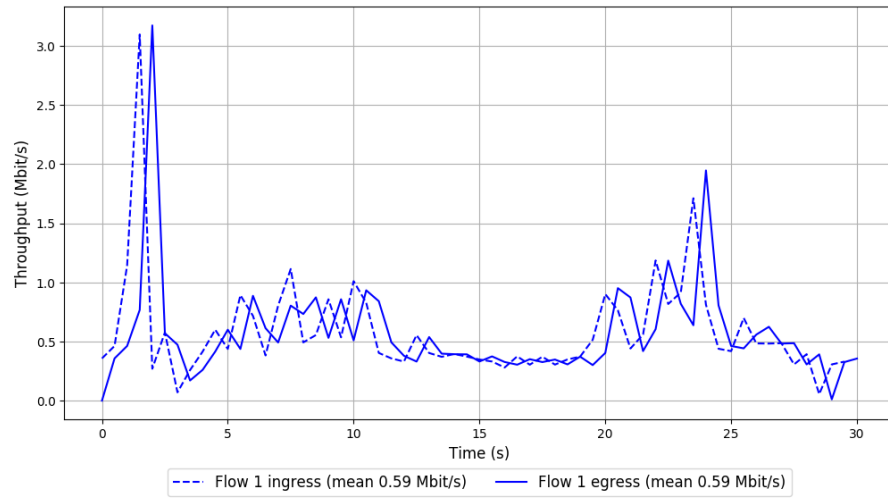
-- Flow 1:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 94.989 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

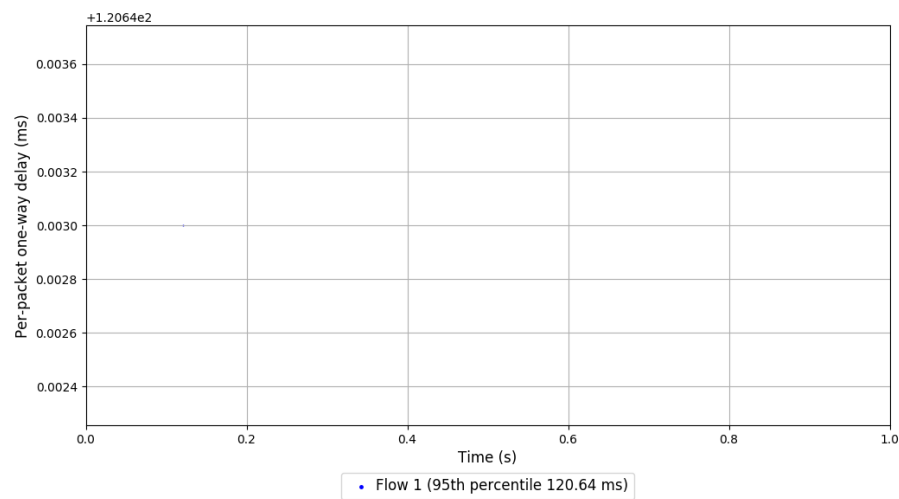
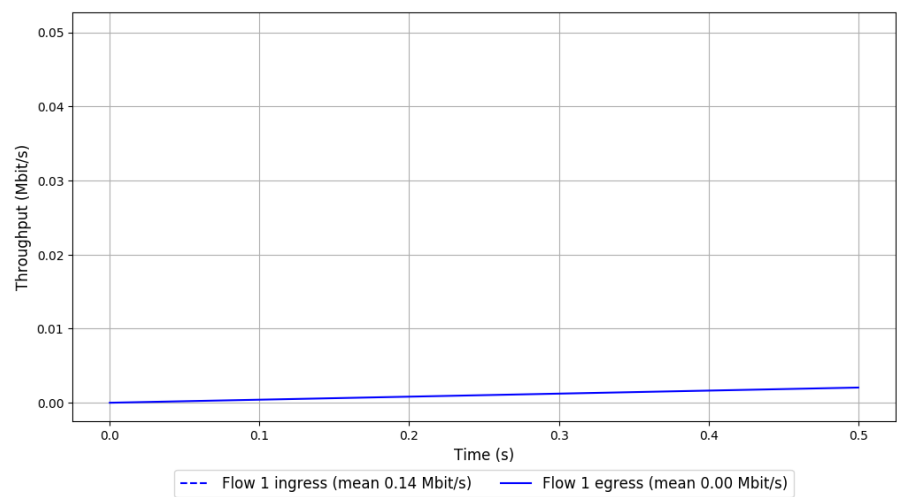
Start at: 2019-07-17 16:19:24

End at: 2019-07-17 16:19:54

Local clock offset: 0.337 ms

Remote clock offset: -0.571 ms

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



Run 2: Statistics of TaoVA-100x

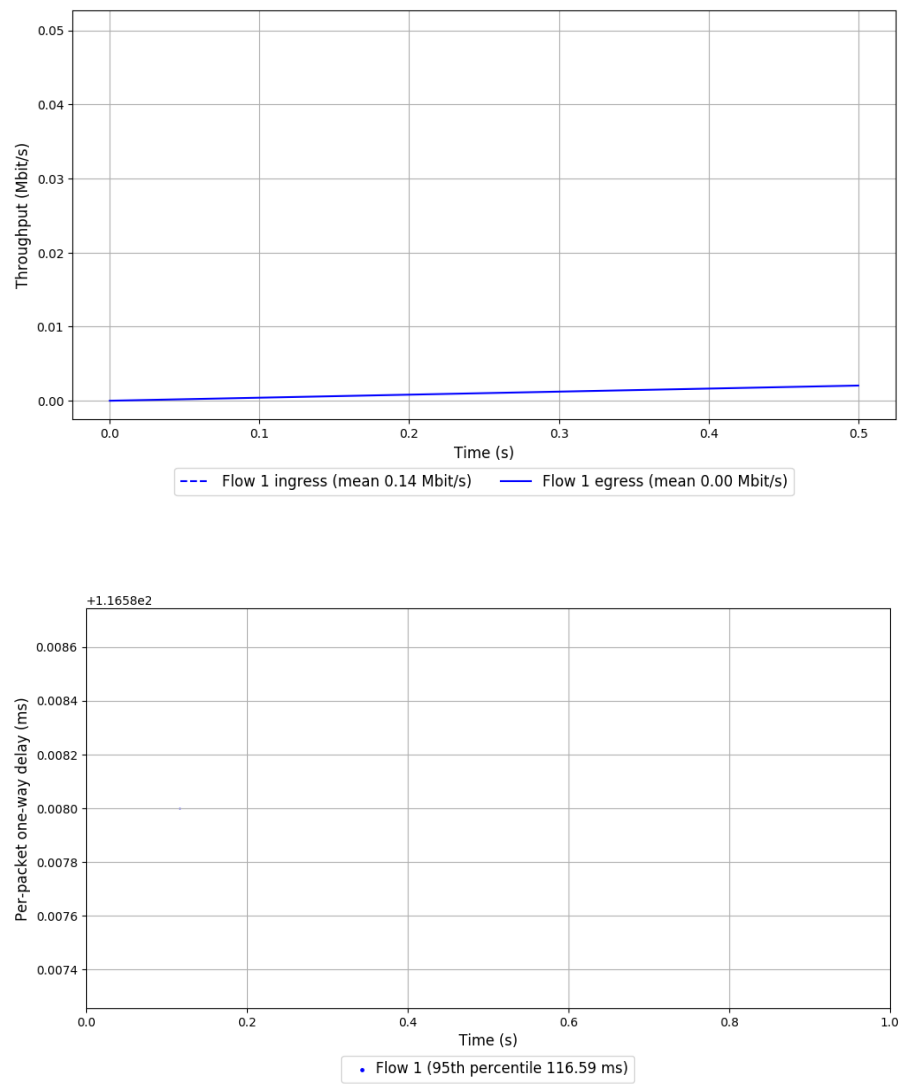
Start at: 2019-07-17 16:49:03

End at: 2019-07-17 16:49:33

Local clock offset: -2.259 ms

Remote clock offset: -0.318 ms

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



Run 3: Statistics of TaoVA-100x

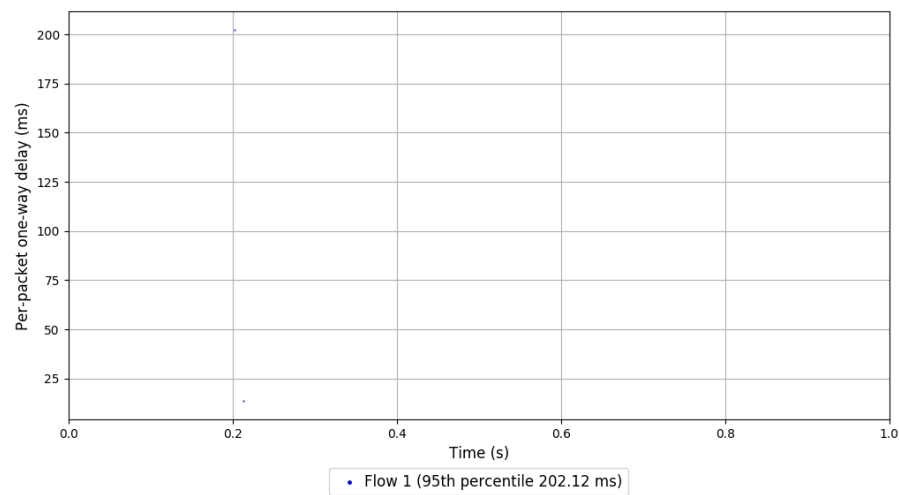
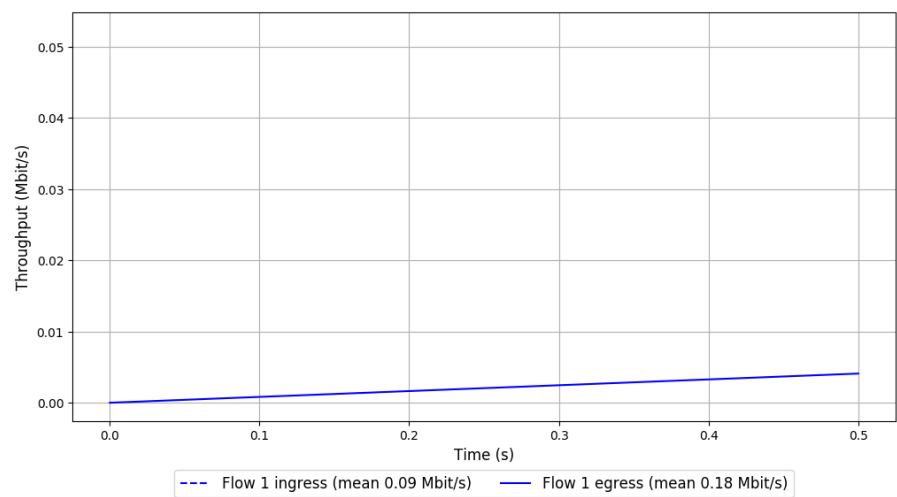
Start at: 2019-07-17 17:18:36

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

Local clock offset: -5.154 ms

Remote clock offset: -1.093 ms

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

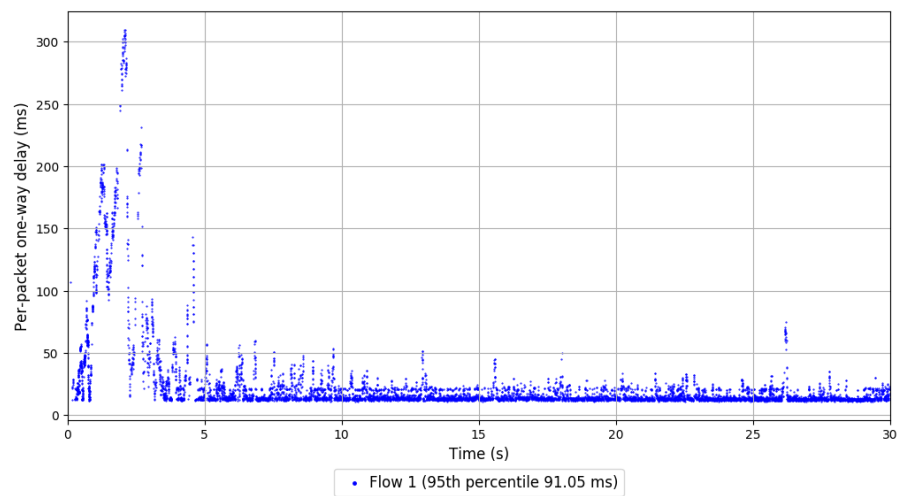
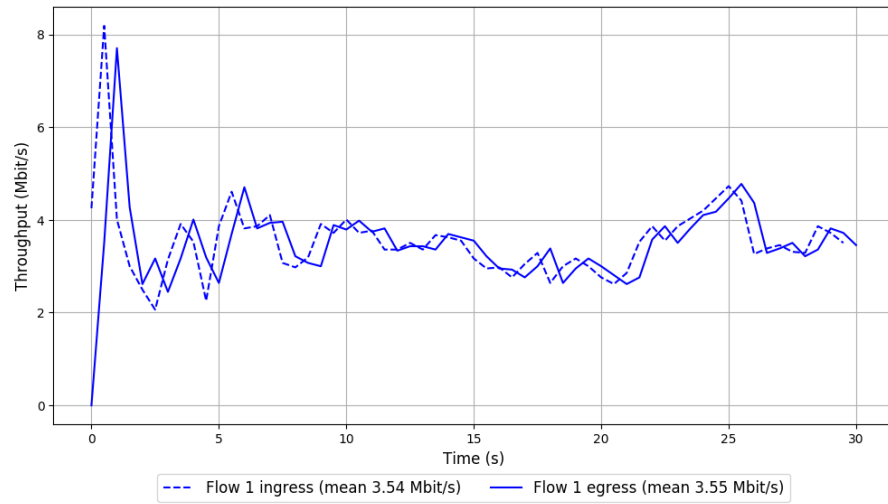


Run 1: Statistics of TCP Vegas

Start at: 2019-07-17 16:09:31
End at: 2019-07-17 16:10:01
Local clock offset: -6.657 ms
Remote clock offset: -1.102 ms

Below is generated by plot.py at 2019-07-17 17:25:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 91.045 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 91.045 ms
Loss rate: 0.10%

Run 1: Report of TCP Vegas — Data Link

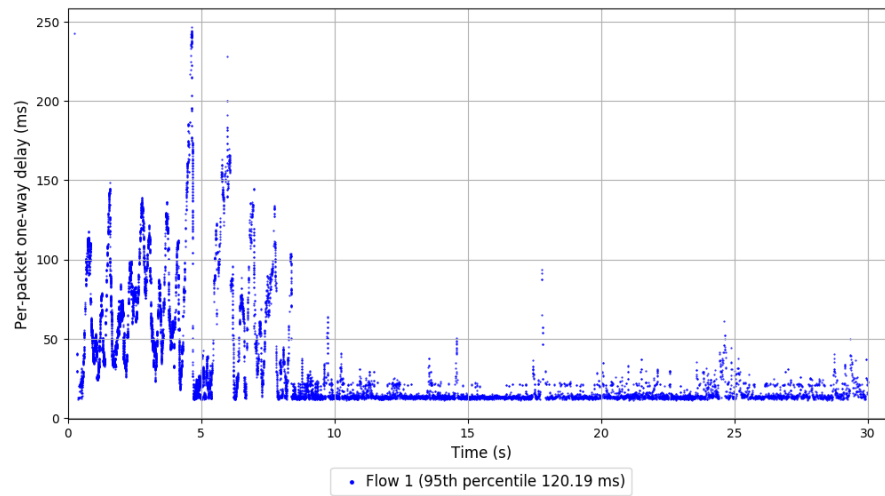
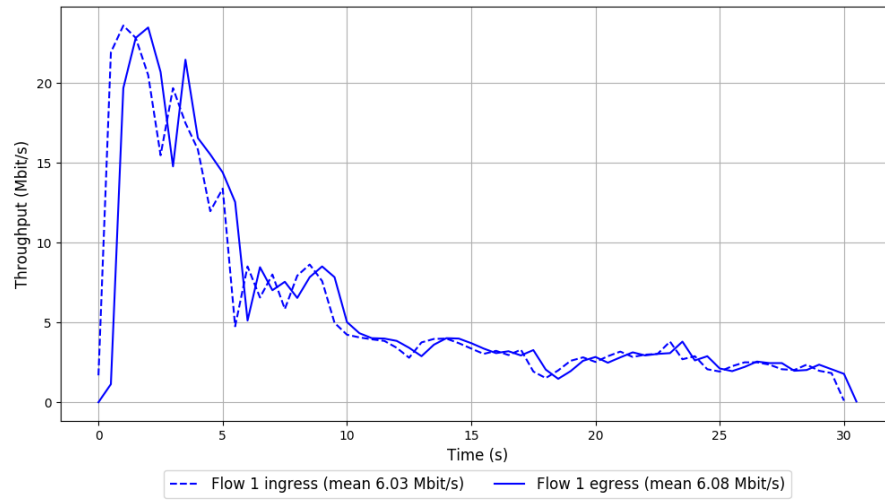


Run 2: Statistics of TCP Vegas

Start at: 2019-07-17 16:39:12
End at: 2019-07-17 16:39:42
Local clock offset: -1.088 ms
Remote clock offset: -0.319 ms

Below is generated by plot.py at 2019-07-17 17:25:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.08 Mbit/s
95th percentile per-packet one-way delay: 120.193 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 6.08 Mbit/s
95th percentile per-packet one-way delay: 120.193 ms
Loss rate: 0.03%

Run 2: Report of TCP Vegas — Data Link

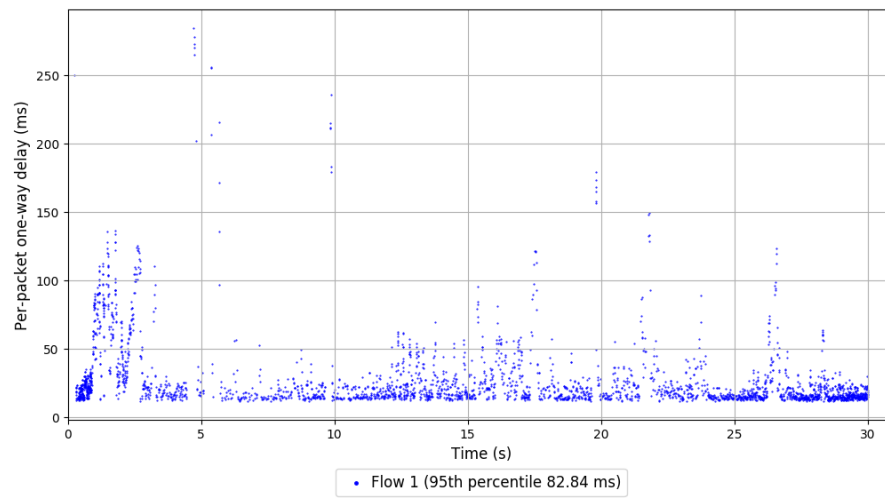
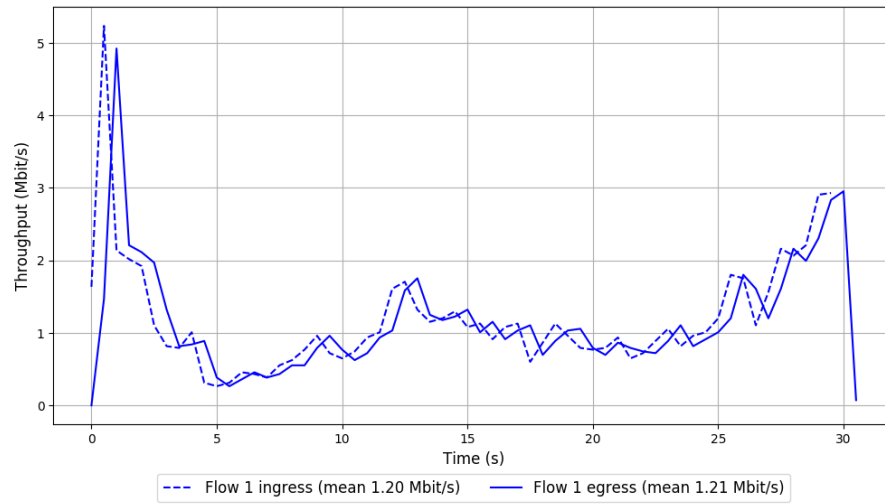


Run 3: Statistics of TCP Vegas

Start at: 2019-07-17 17:08:45
End at: 2019-07-17 17:09:15
Local clock offset: -4.181 ms
Remote clock offset: -0.297 ms

Below is generated by plot.py at 2019-07-17 17:25:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 82.839 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 82.839 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-07-17 15:58:26

End at: 2019-07-17 15:58:56

Local clock offset: 0.104 ms

Remote clock offset: -1.0 ms

Below is generated by plot.py at 2019-07-17 17:25:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 919.943 ms

Loss rate: 11.89%

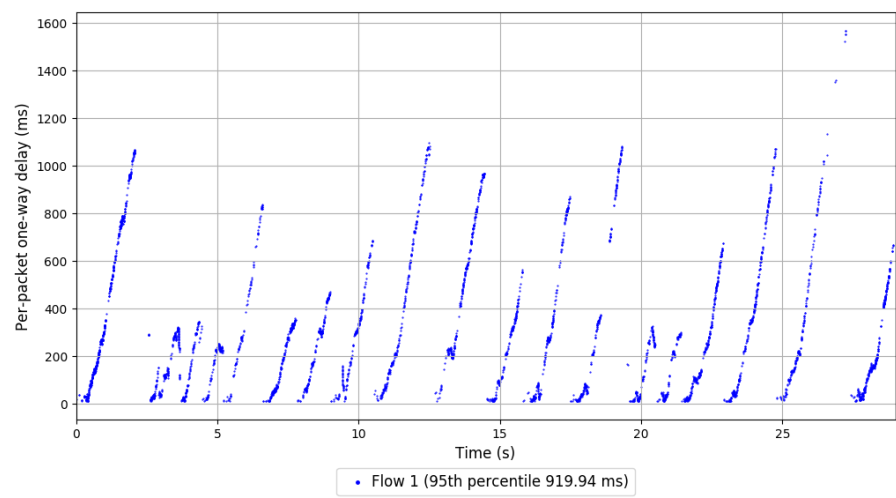
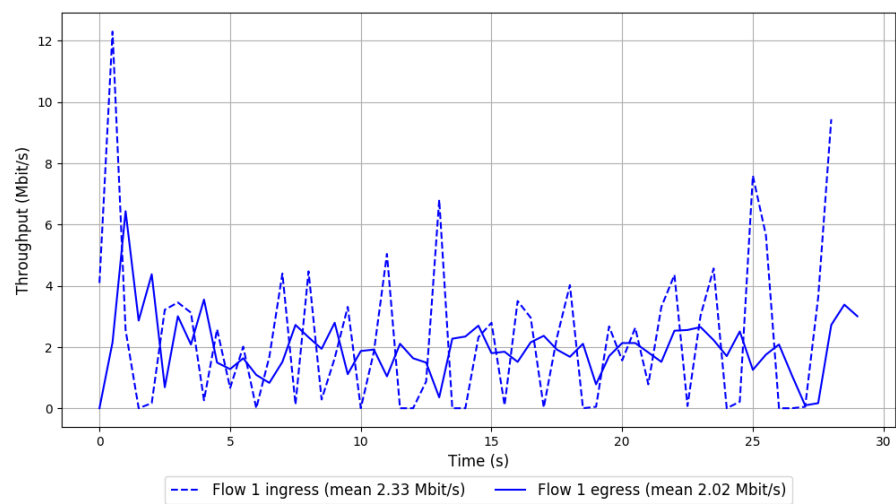
-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 919.943 ms

Loss rate: 11.89%

Run 1: Report of Verus — Data Link

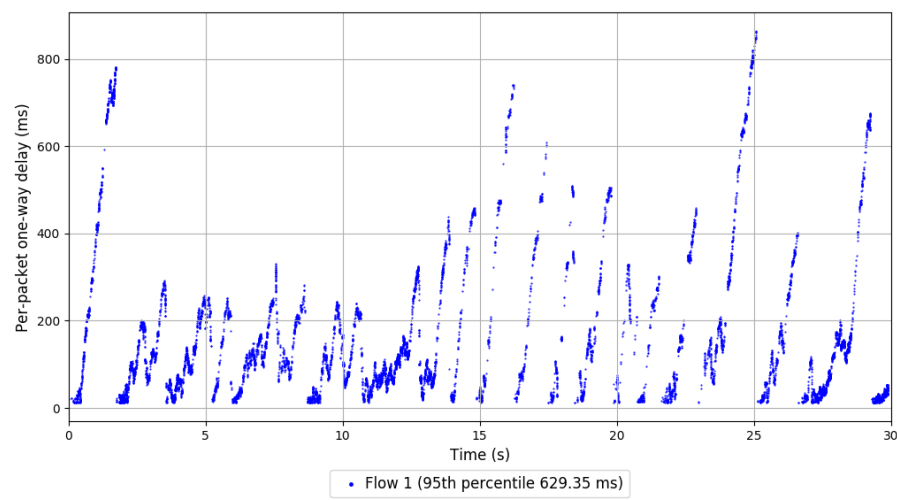
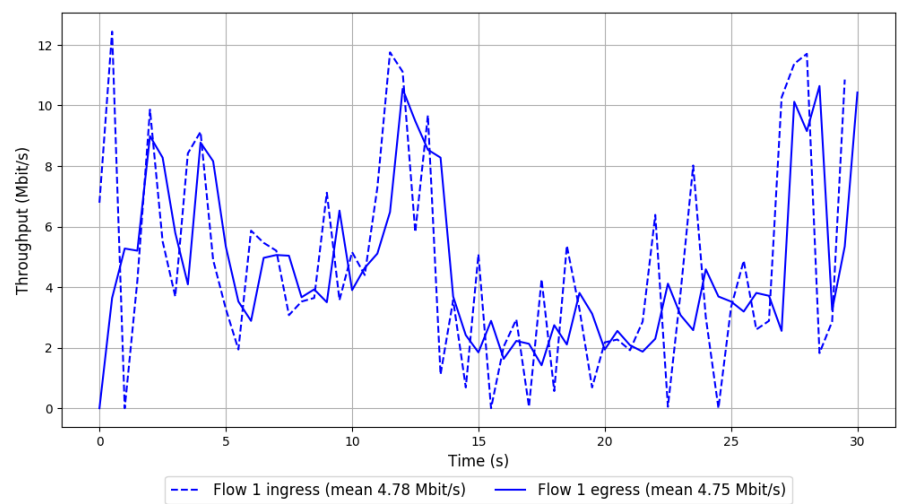


Run 2: Statistics of Verus

Start at: 2019-07-17 16:28:06
End at: 2019-07-17 16:28:36
Local clock offset: 0.657 ms
Remote clock offset: -0.359 ms

Below is generated by plot.py at 2019-07-17 17:25:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 629.353 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 629.353 ms
Loss rate: 0.48%

Run 2: Report of Verus — Data Link

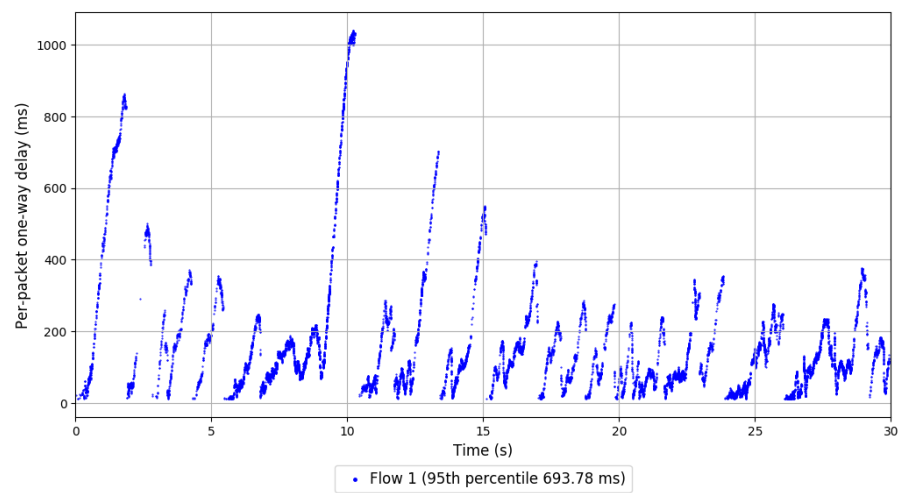
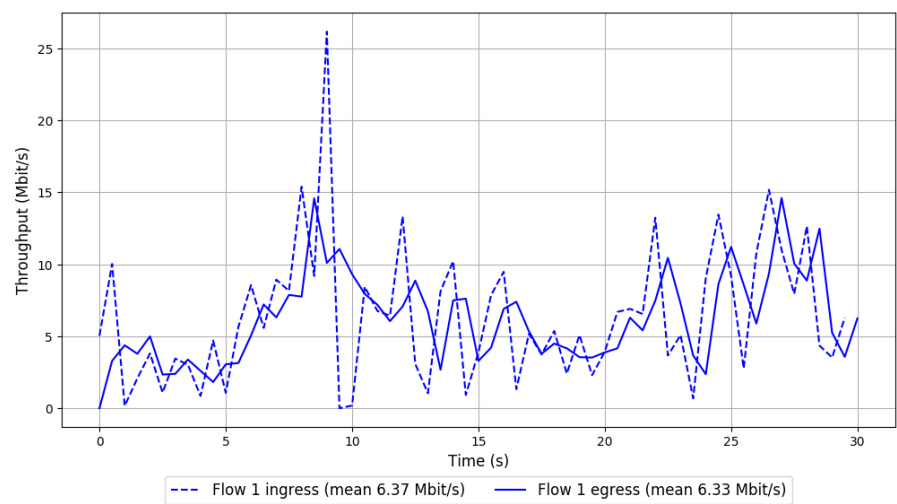


Run 3: Statistics of Verus

Start at: 2019-07-17 16:57:40
End at: 2019-07-17 16:58:11
Local clock offset: -3.109 ms
Remote clock offset: -0.343 ms

Below is generated by plot.py at 2019-07-17 17:25:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 693.783 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 693.783 ms
Loss rate: 0.67%

Run 3: Report of Verus — Data Link

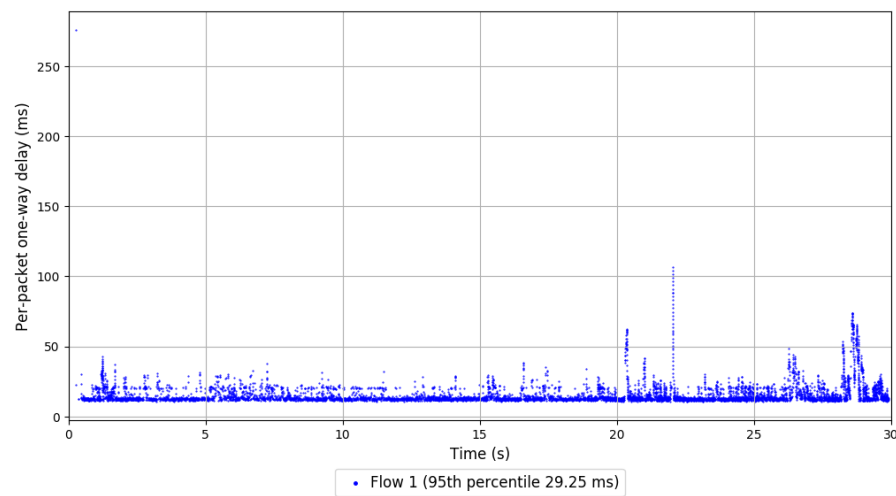
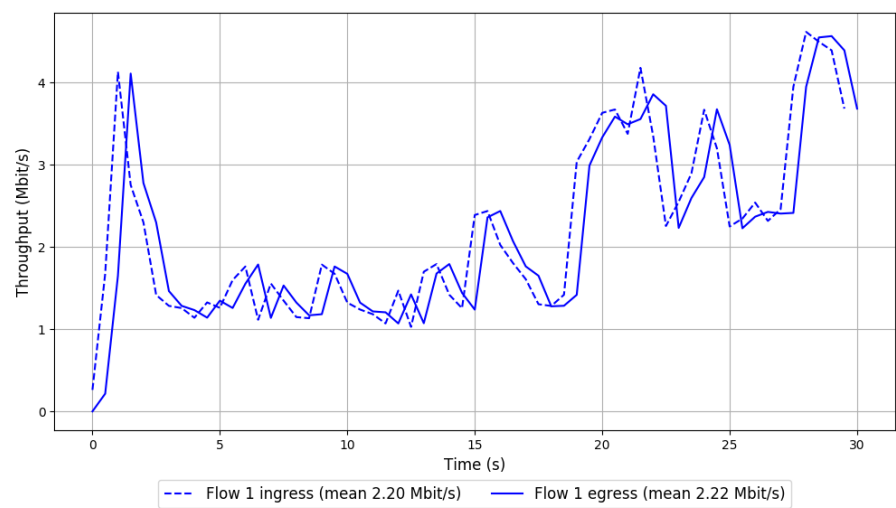


Run 1: Statistics of PCC-Vivace

Start at: 2019-07-17 16:05:50
End at: 2019-07-17 16:06:20
Local clock offset: -5.166 ms
Remote clock offset: -1.272 ms

Below is generated by plot.py at 2019-07-17 17:25:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 29.253 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 29.253 ms
Loss rate: 0.09%

Run 1: Report of PCC-Vivace — Data Link

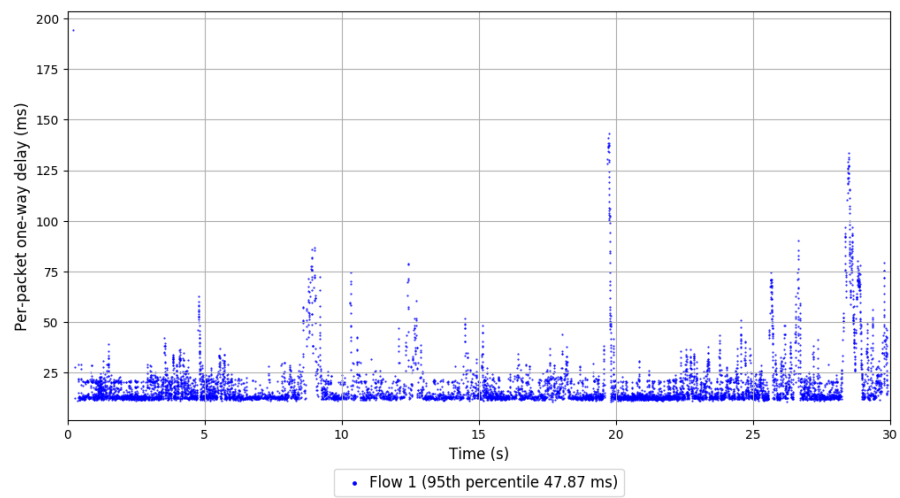
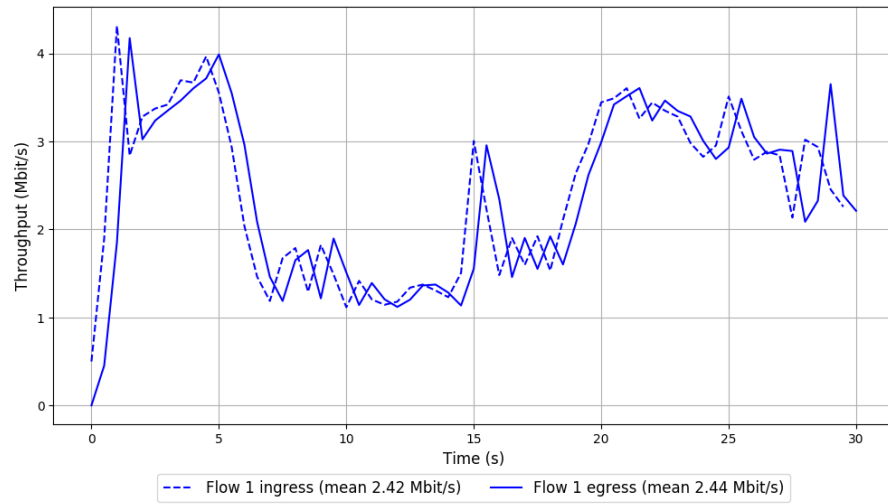


Run 2: Statistics of PCC-Vivace

Start at: 2019-07-17 16:35:30
End at: 2019-07-17 16:36:00
Local clock offset: -0.573 ms
Remote clock offset: -0.312 ms

Below is generated by plot.py at 2019-07-17 17:25:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 47.872 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 47.872 ms
Loss rate: 0.13%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-07-17 17:05:04

End at: 2019-07-17 17:05:34

Local clock offset: -3.756 ms

Remote clock offset: -0.371 ms

Below is generated by plot.py at 2019-07-17 17:25:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 1061.656 ms

Loss rate: 26.92%

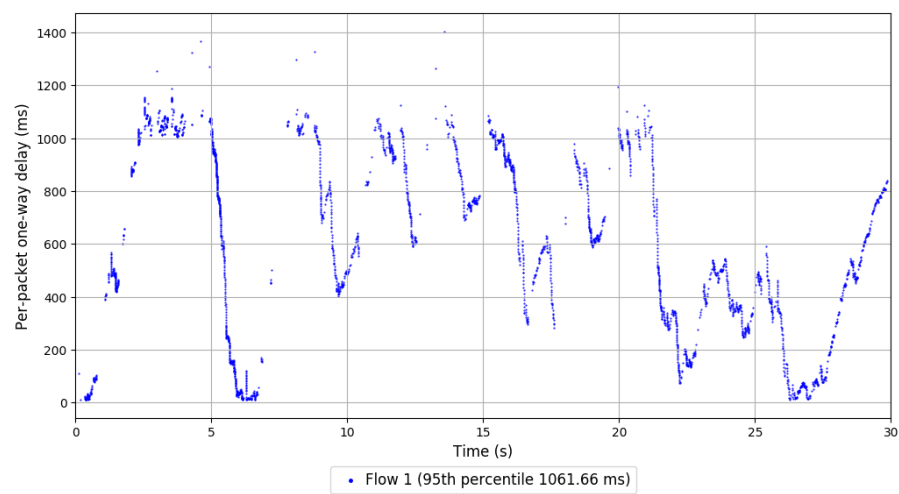
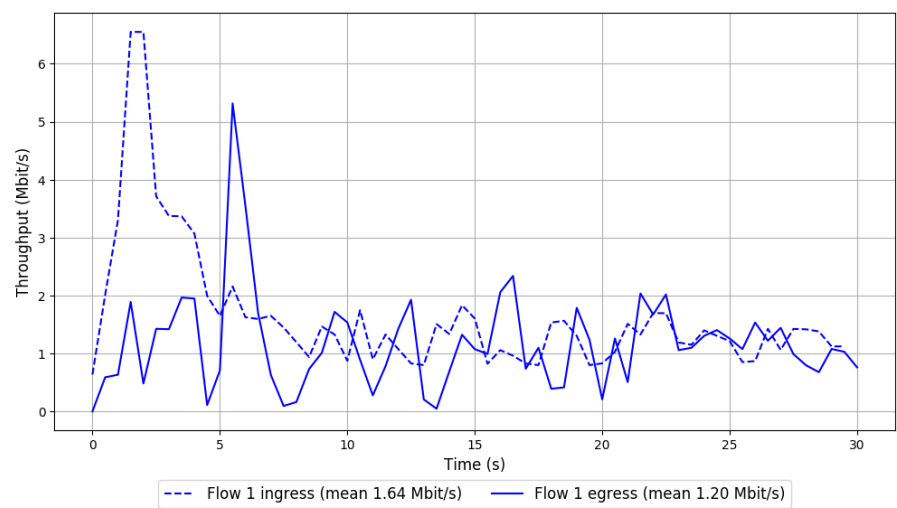
-- Flow 1:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 1061.656 ms

Loss rate: 26.92%

Run 3: Report of PCC-Vivace — Data Link

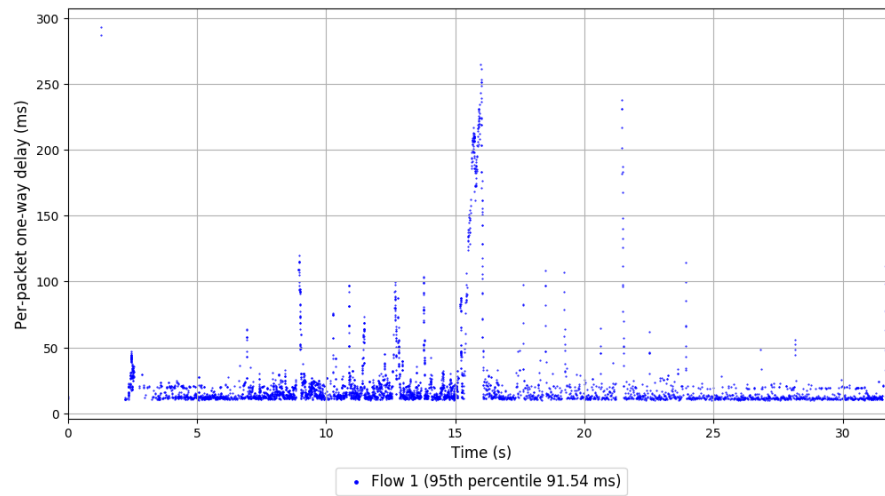
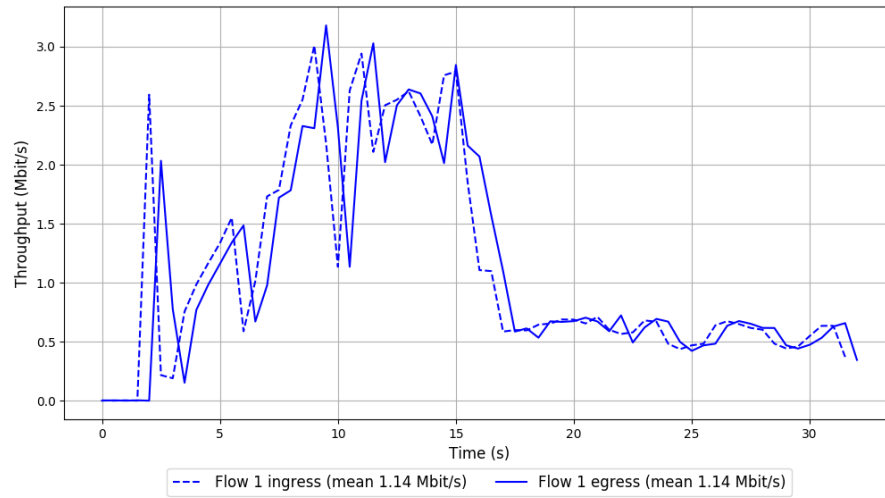


```
Run 1: Statistics of WebRTC media

Start at: 2019-07-17 16:00:54
End at: 2019-07-17 16:01:24
Local clock offset: -2.381 ms
Remote clock offset: -1.103 ms

# Below is generated by plot.py at 2019-07-17 17:25:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 91.544 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 91.544 ms
Loss rate: 0.06%
```

Run 1: Report of WebRTC media — Data Link

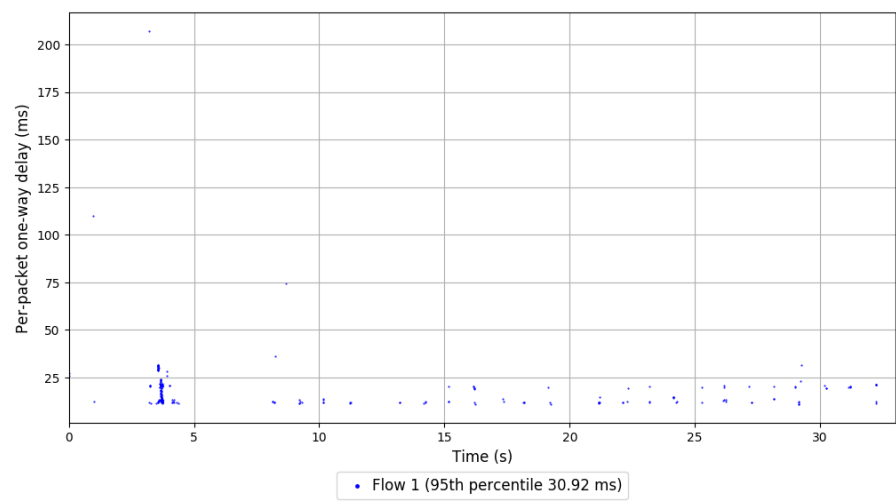
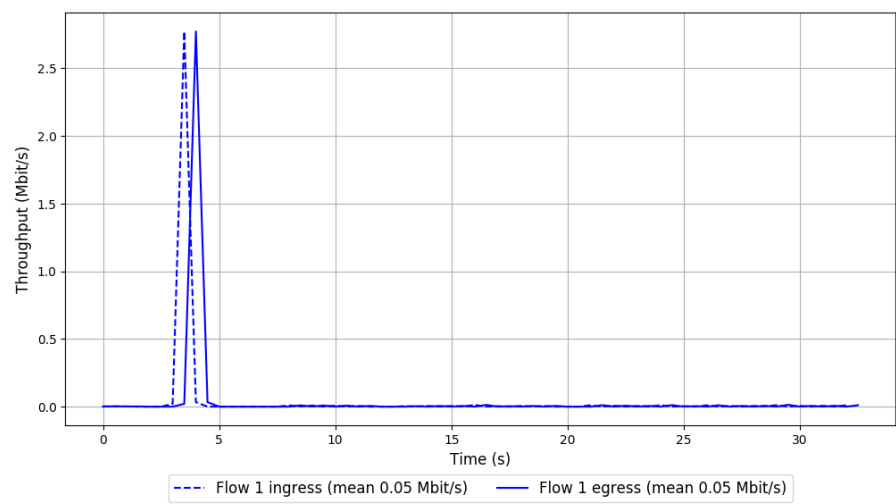


Run 2: Statistics of WebRTC media

Start at: 2019-07-17 16:30:34
End at: 2019-07-17 16:31:04
Local clock offset: 0.187 ms
Remote clock offset: -0.383 ms

Below is generated by plot.py at 2019-07-17 17:25:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 30.924 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 30.924 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-07-17 17:00:08
End at: 2019-07-17 17:00:38
Local clock offset: -3.318 ms
Remote clock offset: -0.302 ms

Below is generated by plot.py at 2019-07-17 17:25:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 700.092 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 700.092 ms
Loss rate: 2.83%

Run 3: Report of WebRTC media — Data Link

